Analytical Resources, LLC
Analytical Chemists and Consultants

18 January 2023

Ali Judkins
Anchor QEA, LLC
1201 3rd Ave, Suite 2600
Seattle, WA 98101

RE: AOC4 UR Phase 3

Please find enclosed sample receipt documentation and analytical results for samples from the project referenced above.

Sample analyses were performed according to ARI's Quality Assurance Plan and any provided project specific Quality Assurance Plan. Each analytical section of this report has been approved and reviewed by an analytical peer, the appropriate Laboratory Supervisor or qualified substitute, and a technical reviewer.

Should you have any questions or problems, please feel free to contact us at your convenience.

Associated Work Order(s)	Associated SDG ID(s)
22L0246	N/A

Susan Dunnihoo

Digitally signed by Susan Dunnihoo
Date: 2023.01.18 13:57:11 -08'00'

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed in the enclosed Narrative. ARI, an accredited laboratory, certifies that the report results for which ARI is accredited meets all the requirements of the accrediting body. A list of certified analyses, accreditations, and expiration dates is included in this report.

Release of the data contained in this hardcopy data package has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

Analytical Resources, LLC

Susan Dunnihoo, Director, Client Services

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ACCREDITED IN ACCORDANCE WITH nelac
Cert# 100006-012

22L0246

1 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3263

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/9/2022
Airbill Number: —
Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					Archive	TOC/Total Solids		PCBs	BBP	D/F		
12/9/22	0756	LDW22-SC77BB	3	Sediment	X	X		X	—	—		
		LDW22-SC77BC	3		X	X		X	—	—		
		LDW22-SC77BC-FD	3		X	X		X	—	—		
		LDW22-SC77BD	3		X	X		X	—	—		
	↓	LDW22-SC77BE	3		X	X		X	—	—		
	0756	LDW22-SC77BF	3		X	X		X	—	—		
	0840	LDW22-ITB10A	4		X	X		X	—	X		
		LDW22-ITB10B	4		X	X		X	X	X		
		LDW22-ITB10C	4		X	X		X	X	X		
		LDW22-ITB10B-FD	4		X	X		X	X	X		
↓	↓	LDW22-ITB10D	4	↓	X	X		X	X	X		
12/9/22	0840	LDW22-ITB10E	4	Sediment	X	X		X	X	X		
		Total Number of Containers	42	Purchase Order / Statement of Work # APJ-110222-AOC4-ARL								

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YA RED	YA RED	Jacob Hartle
Signature: AVandervort			
Company: Windward	YA YA SAFETY	YA YA SAFETY	AR, LLC
Date/Time: 12/9/2022 16:15	12/09/22 4:15PM	12/09/22 16:40	12/9/22 1640

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

22L0246

2 of 4

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3266

Project/Client Name: ADC4 UR Phase 3
Project Number: 180067 - 02.04
Contact Name: Amara VandenAA
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/9/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive	TOC/TOM/TS Solids		PCBs	BBP	D/F		Comments / Instructions [Jar tag number(s)]
12/9/22	0840	LDW22 - ITB10F	4	Sediment	X	X		X	X	X		
	0840	LDW22 - ITB10G	4		X	X		X	X	X		
	0809	LDW22 - SC779A	3		X	X		X	—	—		
		LDW22 - SC779B	3		X	X		X	—	—		
		LDW22 - SC779C	3		X	X		X	—	—		
		LDW22 - SC779D	3		X	X		X	—	—		
		LDW22 - SC779D-FD	3		X	X		X	—	—		
		LDW22 - SC779E	3		X	X		X	—	—		
		LDW22 - SC779F	3		X	X		X	—	—		
		LDW22 - SC779G	3		X	X		X	—	—		
↓	↓	LDW22 - SC779H	3	↓	X	X		X	—	—		
12/9/22	0809	LDW22 - SC779I	3	Sediment	X	X		X	—	—		
		Total Number of Containers	38	Purchase Order / Statement of Work #	APT-110222-ADC4-ARL							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vandenhoft	YARED	YARED	Jacob Haltemeier
Signature: A. Vandenhoft			
Company: Windward	YA YA SAFETY	YA YA SAFETY	AR, LLC
Date/Time: 12/9/2022 16:15	Date/Time: 12/09/22 4:15	Date/Time: 12/09/22 16:40	Date/Time: 12/9/22 1640

* Distribution: White copies accompany shipment; yellow retained by consignor.

Wind Ward environmental LLC

200 1st Ave W, Suite 500
Seattle, WA 98119

206.378.1364

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

3 of 4 22L0246

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3264

Project/Client Name: AOC4 LLR Phase 3
Project Number: 180067 - 02.04
Contact Name: Amara Vandervort
Sampled By: Windward

Ship to: ARI
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/9/2022
Airbill Number: —
Turnaround requested: Std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required)							Comments / Instructions [Jar tag number(s)]
					Arsenic	TOC/Total Solids		PCBs	BAP	D/F		
12/9/22	0809	LDW22-SC779J	3	Sediment	X	X		X	—	—		
	0852	LDW22-SC777A	3		X	X		X	—	—		
		LDW22-SC777B	3		X	X		X	—	—		
		LDW22-SC777C	3		X	X		X	—	—		
		LDW22-SC777D	3		X	X		X	—	—		
		LDW22-SC777E	3		X	X		X	—	—		
		LDW22-SC777F	3		X	X		X	—	—		
		LDW22-SC777G	3		X	X		X	—	—		
	↓	LDW22-SC777H	3		X	X		X	—	—		
	0852	LDW22-SC777I	3		X	X		X	—	—		
↓	0958	LDW22-SC759C	3		X	X		X	—	—		
12/9/22	0958	LDW22-SC759D	3	Sediment	X	X		X	—	—		
		Total Number of Containers	36	Purchase Order / Statement of Work # APT-110222-AOC4-ARL								

1) Released by:	1) Rec'd by	2) Released by:	2) Rec'd by:
Print name: Amara Vandervort	YA RED	YA RED	Jacob Lyle
Signature: A Vandervort	Company: YA YA SAFETY	Signature:	Company: AR, LLC
Company: Windward	Date/Time: 12/9/22 4:15	Company: YA YA SAFETY	Date/Time: 12/9/22 1644
Date/Time: 12/9/2022 16:15		Date/Time: 12/9/22 16:40	

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Wind Ward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

4 of 4 22L0246

CHAIN-OF-CUSTODY/TEST REQUEST FORM

№ 3292

Project/Client Name: AOC4 UR Phase 3
Project Number: 180067-02.04
Contact Name: Amara Vanderwart
Sampled By: Windward

Ship to: ARL
Attn: Sue Dunnihoo
Shipper: Courier
Form filled out by: AV/BQ

Shipping Date: 12/9/2022
Airbill Number: —
Turnaround requested: std

Sample Collection Date (m/d/y)	Time	Sample Identification	Volume of Sample / # of Containers	Matrix	Test(s) Requested (check test(s) required) Archive	Re/Total Solids		PCBs	D/F	BBP		Comments / Instructions [Jar tag number(s)]
12/9/22	0958	LDW22-SC759E	3	Sediment	X	X		X	—	—		
		LDW22-SC759F	3		X	X		X	—	—		
		LDW22-SC759G	3		X	X		X	—	—		
		LDW22-SC759H	3		X	X		X	—	—		
	0958	LDW22-SC759B	3		X	X		X	—	—		
	1144	LDW22-ITB09A	4		X	X		X	X	—		
		LDW22-ITB09B	4		X	X		X	X	X		
		LDW22-ITB09C	4		X	X		X	X	X		
		LDW22-ITB09D	4		X	X		X	X	X		
		LDW22-ITB09E	4		X	X		X	X	X		
		LDW22-ITB09F	4		X	X		X	X	X		
12/9/22	1144	LDW22-ITB09G	4	Sediment	X	X		X	X	X		
		Total Number of Containers	43	Purchase Order / Statement of Work #	APJ-110222-AOC4-ARL							

1) Released by:	1) Rec'd by:	2) Released by:	2) Rec'd by:
Print name: Amara Vanderwart	YA	YA	Jacob Wachter
Signature:			
Company: Windward	YA YA SAFETY	YA YA SAFETY	AR, LLC
Date/Time: 12/9/2022 16:15	12/9/22 4:15	12/9/22 1648	12/09/22 1644

* Distribution: White copies accompany shipment; yellow retained by consignor.

To be completed by Laboratory upon sample receipt:

Date of receipt::	Laboratory W.O. #:
Condition upon receipt:	Time of receipt:
Cooler temperature:	Received by:

Windward environmental LLC
200 1st Ave W, Suite 500
Seattle, WA 98119
206.378.1364

Analytical Resources, LLC
Analytical Chemists and Consultants

Cooler Receipt Form

ARI Client: Windward Project Name: AOC4 UR Phase 3

COC No(s): 3263, 3266, 3264, 3292 NA JS Delivered by: Fed-Ex UPS Courier Hand Delivered Other:

Assigned ARI Job No: 22L0246 Tracking No: NA

Preliminary Examination Phase:

Were intact, properly signed and dated custody seals attached to the outside of the cooler?	YES	NO
Were custody papers included with the cooler?	YES	NO
Were custody papers properly filled out (ink, signed, etc.)	YES	NO

Temperature of Cooler(s) (°C) (recommended 2.0-6.0 °C for chemistry)

Time 1640 0.4 0.5 3.4 5.1

If cooler temperature is out of compliance fill out form 00070F Temp Gun ID#: IR#7018

Cooler Accepted by: JS Date: 12/09/22 Time: 1640

Complete custody forms and attach all shipping documents

Log-In Phase:

Was a temperature blank included in the cooler?		YES	NO
What kind of packing material was used?	Bubble Wrap Wet Ice Gel Packs Baggies Foam Block Paper Other:		
Was sufficient ice used (if appropriate)?	NA	YES	NO
How were bottles sealed in plastic bags?	Individually	Grouped	Not
Did all bottles arrive in good condition (unbroken)?		YES	NO
Were all bottle labels complete and legible?		YES	NO
Did the number of containers listed on COC match with the number of containers received?		YES	NO
Did all bottle labels and tags agree with custody papers?		YES	NO
Were all bottles used correct for the requested analyses?		YES	NO
Do any of the analyses (bottles) require preservation? (attach preservation sheet, excluding VOCs)	NA	YES	NO
Were all VOC vials free of air bubbles?	NA	YES	NO
Was sufficient amount of sample sent in each bottle?		YES	NO
Date VOC Trip Blank was made at ARI	NA		

Were the sample(s) split by ARI? NA YES Date/Time: Equipment: Split by:

Samples Logged by: JS Date: 12/14/22 Time: 0951 Labels checked by: JS

*** Notify Project Manager of discrepancies or concerns ***

Sample ID on Bottle	Sample ID on COC	Sample ID on Bottle	Sample ID on COC

Additional Notes, Discrepancies, & Resolutions:

By: Date:

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	01/18/2023 13:04

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0246-01	LDW22-SC778B	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-02	LDW22-SC778C	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-03	LDW22-SC778C-FD	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-04	LDW22-SC778D	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-05	LDW22-SC778E	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-06	LDW22-SC778F	Solid	12/09/22 07:56	12/09/22 16:40
22L0246-07	LDW22-IT810A	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-08	LDW22-IT810B	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-09	LDW22-IT810C	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-10	LDW22-IT810B-FD	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-11	LDW22-IT810D	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-12	LDW22-IT810E	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-13	LDW22-IT810F	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-14	LDW22-IT810G	Solid	12/09/22 08:40	12/09/22 16:40
22L0246-15	LDW22-SC779A	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-16	LDW22-SC779B	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-17	LDW22-SC779C	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-18	LDW22-SC779D	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-19	LDW22-SC779D-FD	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-20	LDW22-SC779E	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-21	LDW22-SC779F	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-22	LDW22-SC779G	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-23	LDW22-SC779H	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-24	LDW22-SC779I	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-25	LDW22-SC779J	Solid	12/09/22 08:09	12/09/22 16:40
22L0246-26	LDW22-SC777A	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-27	LDW22-SC777B	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-28	LDW22-SC777C	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-29	LDW22-SC777D	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-30	LDW22-SC777E	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-31	LDW22-SC777F	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-32	LDW22-SC777G	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-33	LDW22-SC777H	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-34	LDW22-SC777I	Solid	12/09/22 08:52	12/09/22 16:40
22L0246-35	LDW22-SC759C	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-36	LDW22-SC759D	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-37	LDW22-SC759E	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-38	LDW22-SC759F	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-39	LDW22-SC759G	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-40	LDW22-SC759H	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-41	LDW22-SC759B	Solid	12/09/22 09:58	12/09/22 16:40
22L0246-42	LDW22-IT809A	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-43	LDW22-IT809B	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-44	LDW22-IT809C	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-45	LDW22-IT809D	Solid	12/09/22 11:44	12/09/22 16:40

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle, WA 98101	Project Manager: Ali Judkins	01/18/2023 13:04

ANALYTICAL REPORT FOR SAMPLES

Laboratory ID	Sample ID	Matrix	Date Sampled	Date Received
22L0246-46	LDW22-IT809E	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-47	LDW22-IT809F	Solid	12/09/22 11:44	12/09/22 16:40
22L0246-48	LDW22-IT809G	Solid	12/09/22 11:44	12/09/22 16:40

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	18-Jan-2023 13:04

Case Narrative

Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Work Order: 22L0246

Sample receipt

Samples as listed on the preceding page were received 09-Dec-2022 16:40 under ARI work order 22L0246. For details regarding sample receipt, please refer to the Cooler Receipt Form.

This data set reported without dioxin/furans.

Semivolatiles - EPA Method SW8270E (Butyl benzyl phthalate)

The sample(s) were extracted and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements, with an accepted exceedance for d14-p-terphenyl outside the 20% window, Associated positive results have been "Q"-flagged.

Internal standard areas were within limits.

The surrogate percent recovery for decachlorobiphenyl was high of control limits in several samples and flagged on the summary sheet.

The method blank(s) were clean at the reporting limits.

The batch BKL0585 blank spike (BS/LCS) recovery was within control limits.The blank spike duplicate (BSD/LCSD) spike recovery was high of limits and relative percent difference (RPD) were within control limits.

The batch BKL0585 matrix spike/matrix spike duplicate (MS/MSD) percent recoveries were high of advisory control limits and the relative percent difference (RPD) was within advisory control limits.

The batch BKL0585 reference material (SRM) percent recovery (168%) was high of control limits (36-164%).

Batch BKL0489 had all QC within limits.

As the samples were undetected and excursions were only slightly high of limits in batch BKL0585, outliers have been flagged and no further corrective action taken.

PCB Aroclors - EPA Method SW8082A

The sample(s) were extracted and analyzed within the recommended holding times. Some sample extracts were initially analyzed at dilution due to the color and characteristics of the extract.

Initial and continuing calibrations were within method requirements.

Internal standard areas were within limits.

The surrogate percent recoveries were within control limits.

The method blank(s) were clean at the reporting limits.

Anchor QEA, LLC	Project: AOC4 UR Phase 3	
1201 3rd Ave, Suite 2600	Project Number: 180067-02.04	**Reported:**
Seattle WA, 98101	Project Manager: Ali Judkins	18-Jan-2023 13:04

Case Narrative

The blank spike and blank spike duplicate (BS/LCS and BSD/LCSD) spike recoveries and relative percent difference (RPD) were within control limits.

The matrix spike/matrix spike duplicate (MS/MSD) percent recoveries for aroclor 1016 were low of advisory control limits in batch BKL0490. The relative percent difference (RPD) were within advisory control limits.

The reference material (SRM) percent recoveries were within control limits.

Several values have been "P1" flagged, indicating a greater than 40% difference between the values on the two columns.

Wet Chemistry (TOC and Total Solids)

The sample(s) were prepared and analyzed within the recommended holding times.

Initial and continuing calibrations were within method requirements.

The method blank(s) were clean at the reporting limits.

The blank spike (BS/LCS) percent recoveries were within control limits.

The reference material (SRM) percent recoveries were within control limits.

The matrix spike (MS) percent recoveries and the duplicate (DUP) relative percent difference (RPD) were within advisory control limits. Matrix QC for batch BKL0501 is reported under work order 22L0199.

QUALIFIERS AND NOTES

Qualifier	Definition
U	This analyte is not detected above the reporting limit (RL) or if noted, not detected above the limit of detection (LOD).
Q	Indicates a detected analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20% RSD, <20% drift or minimum RRF)
P1	The reported value is greater than 40% difference between the concentrations determined on two GC columns where applicable.
J	Estimated concentration value detected below the reporting limit.
H	Hold time violation - Hold time was exceeded.
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL)
D	The reported value is from a dilution
*	Flagged value is not within established control limits.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-08 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010508.D
% Solids:	63.53	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 17:52
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	15.81 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	19.9	U	9.4	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	497.81	413	82.9	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

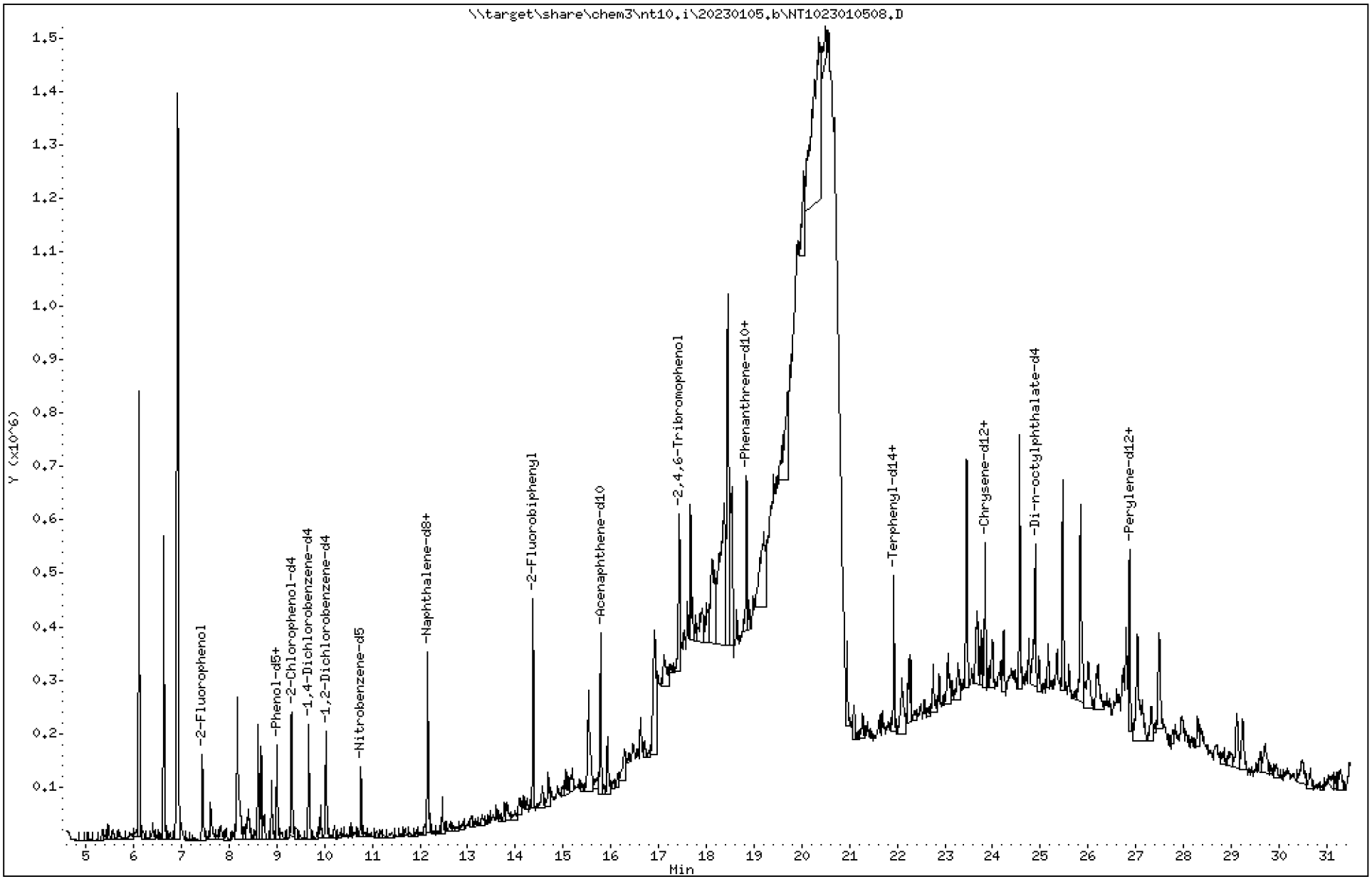
Instrument: nt10.i

Sample Info: 22L0246-08

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 13 of 5449

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

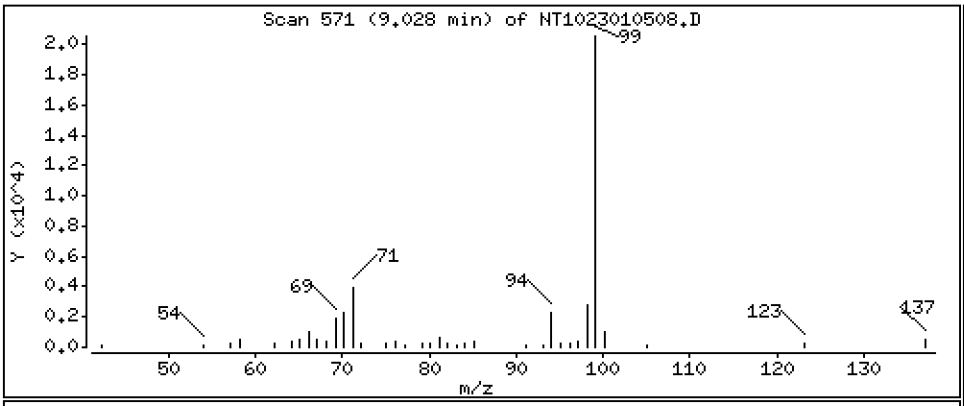
Operator: VTS

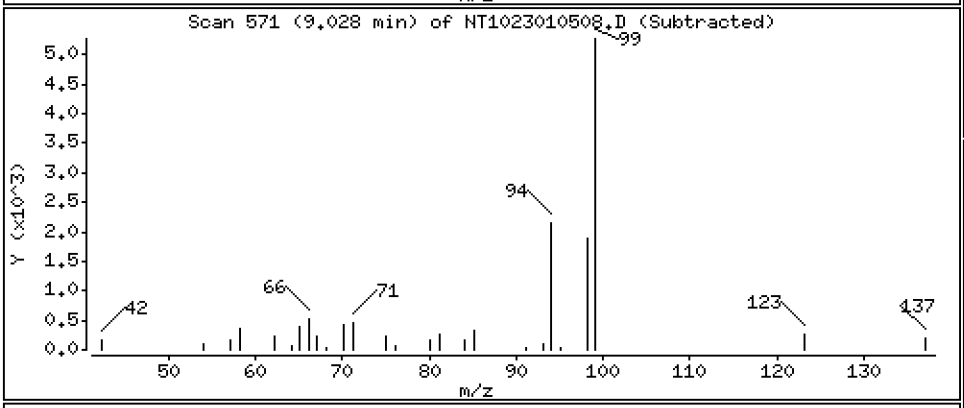
Column phase: ZB-5msi

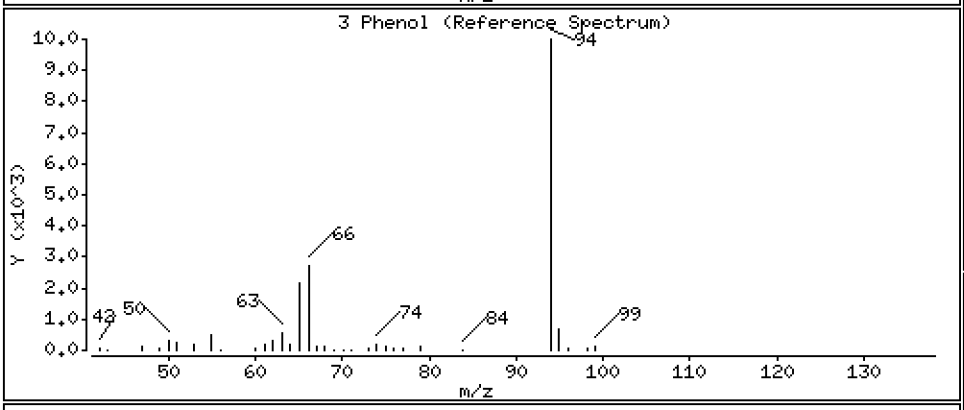
Column diameter: 0.25

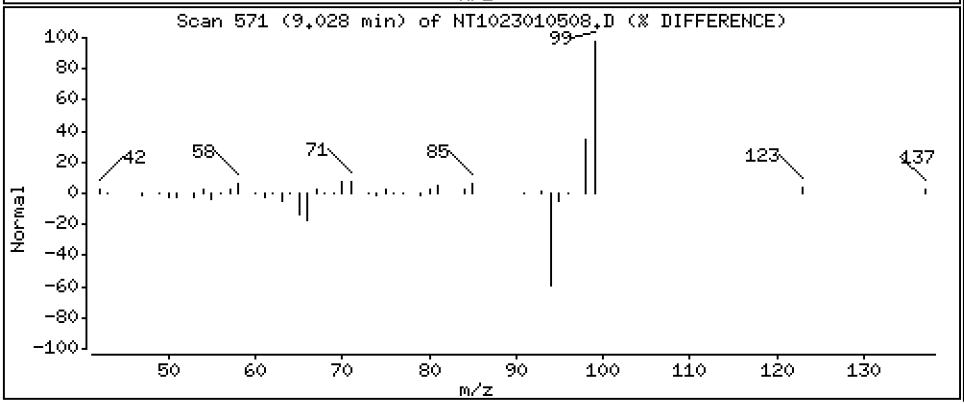
3 Phenol

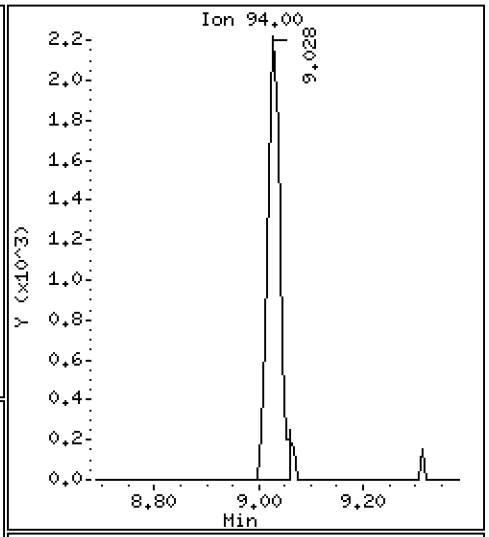
Concentration: 0.1147 ug/mL

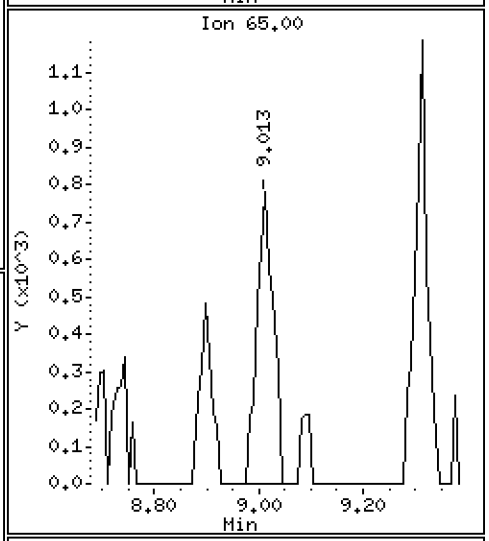


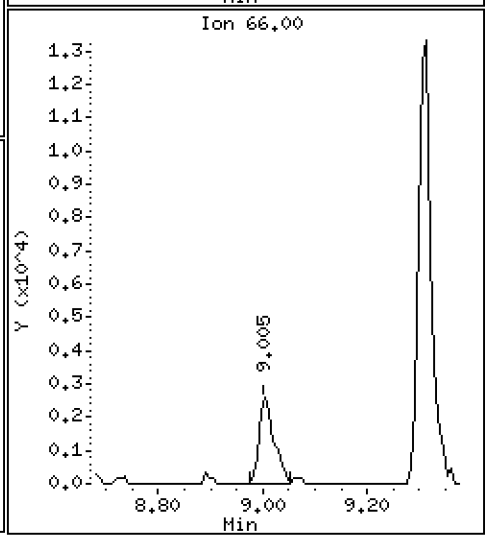












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

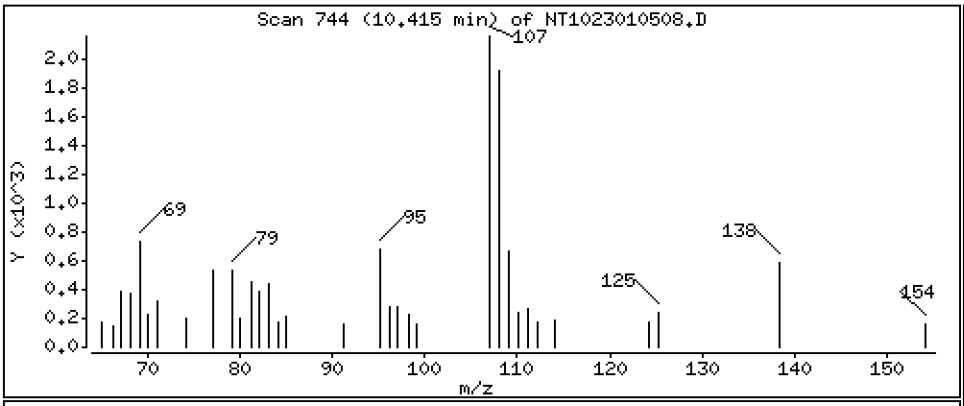
Operator: VTS

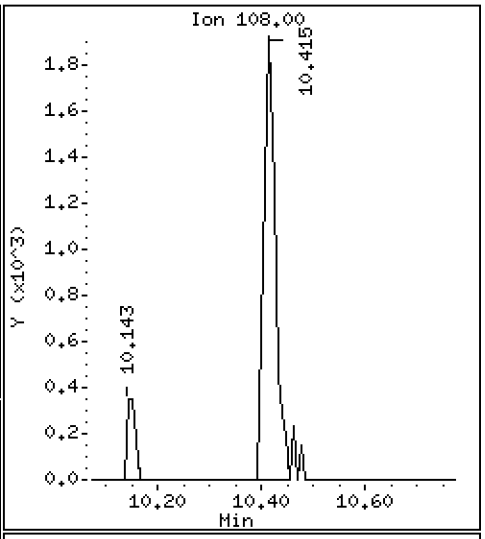
Column phase: ZB-5msi

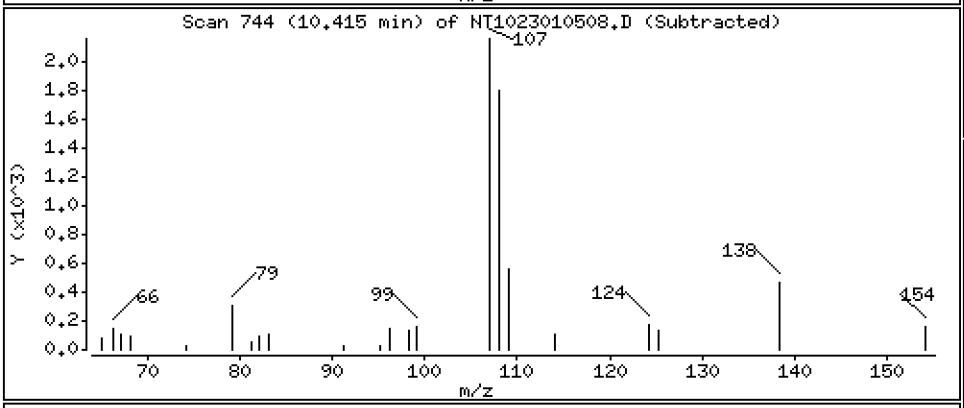
Column diameter: 0.25

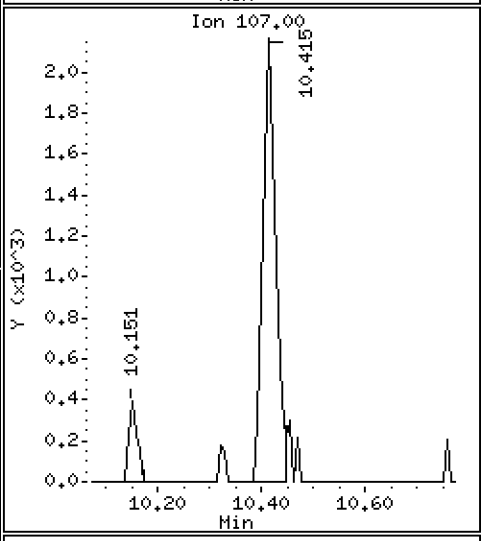
15 4-Methylphenol

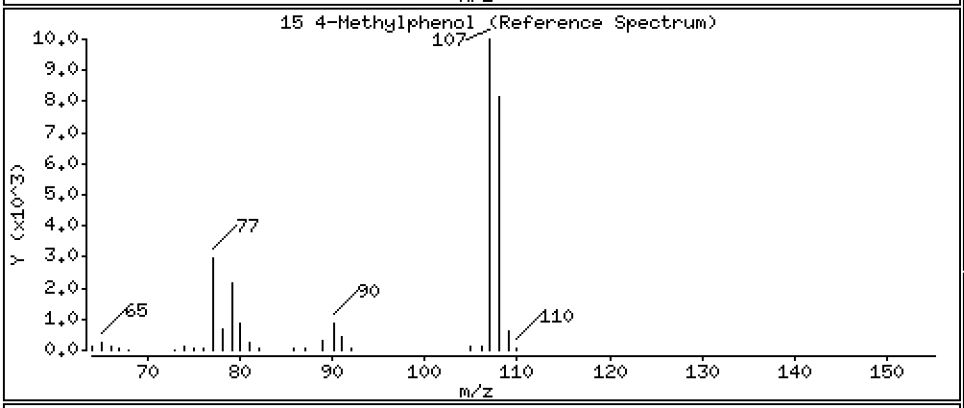
Concentration: 0.1838 ug/mL

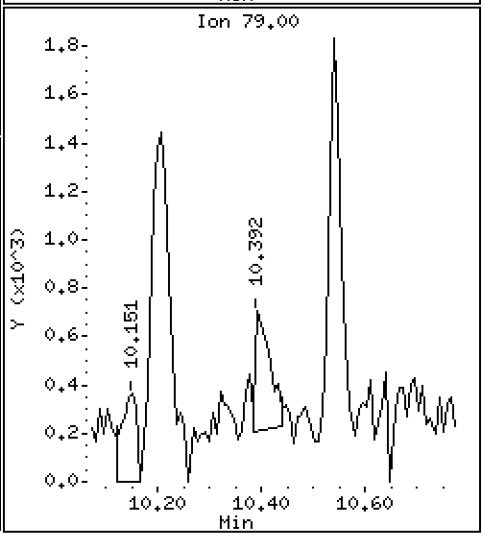


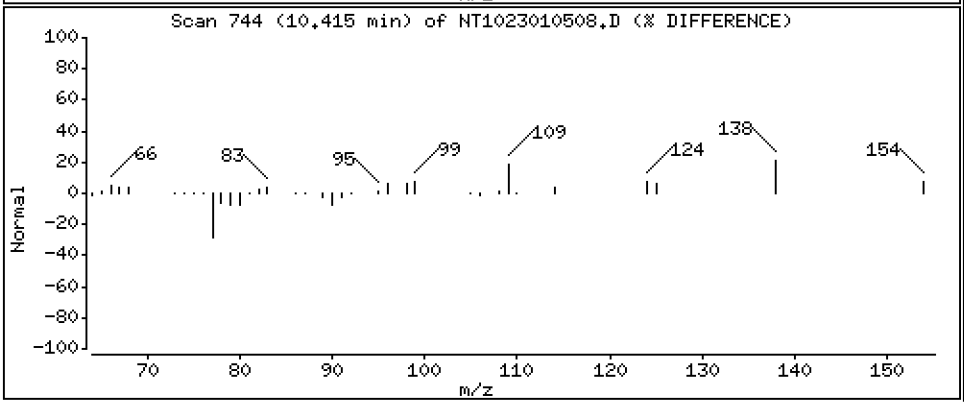












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

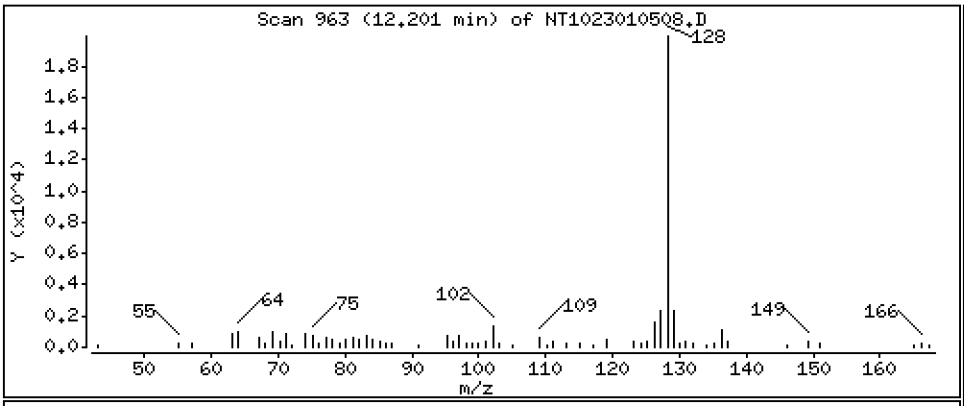
Operator: VTS

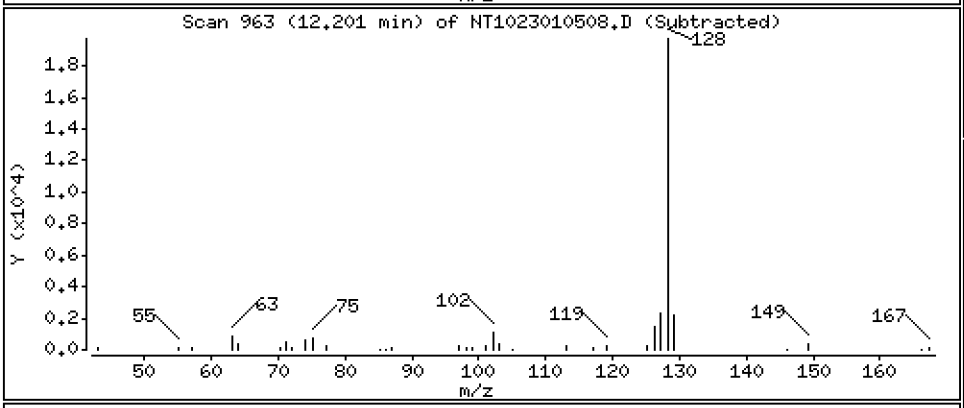
Column phase: ZB-5msi

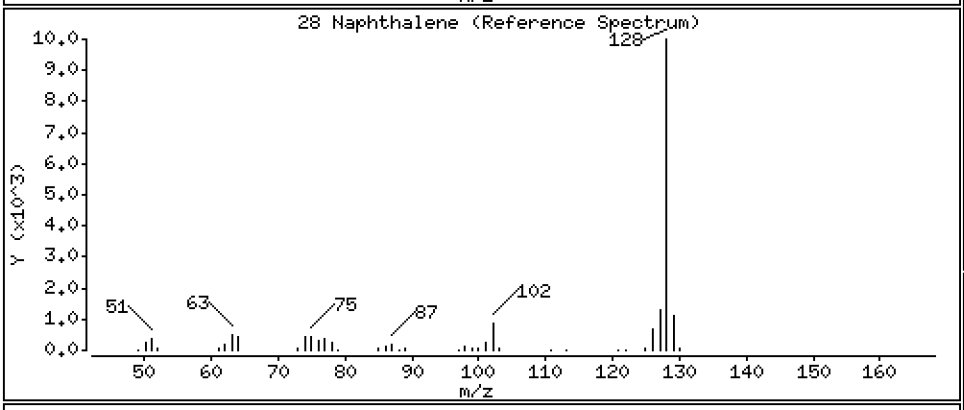
Column diameter: 0.25

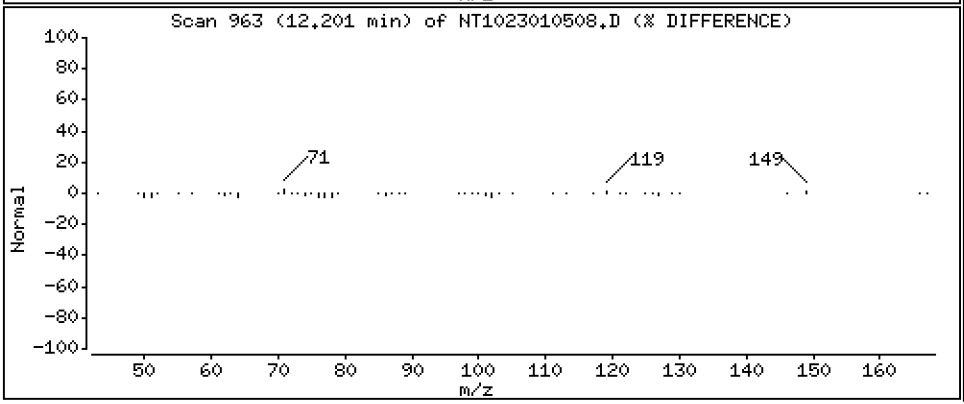
28 Naphthalene

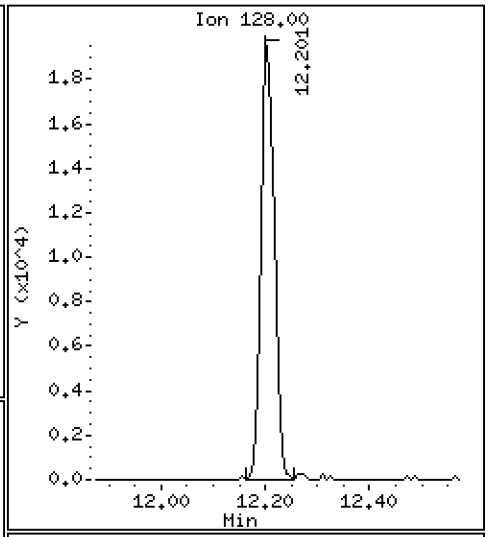
Concentration: 0.4695 ug/mL

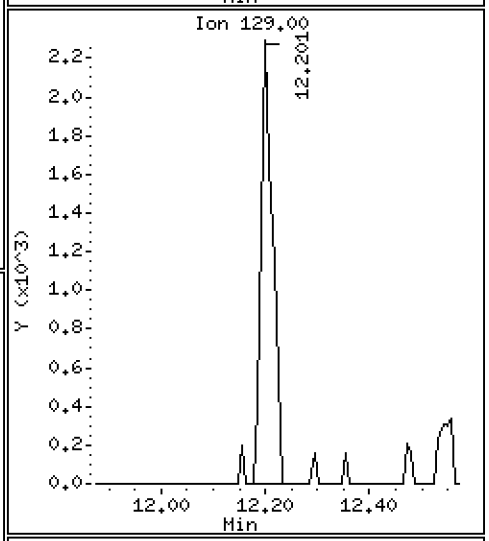


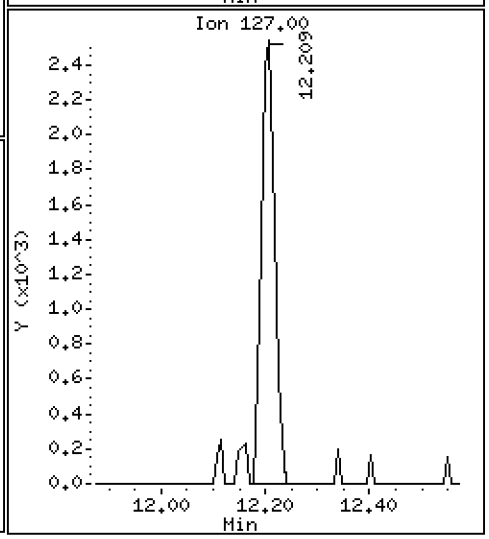












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

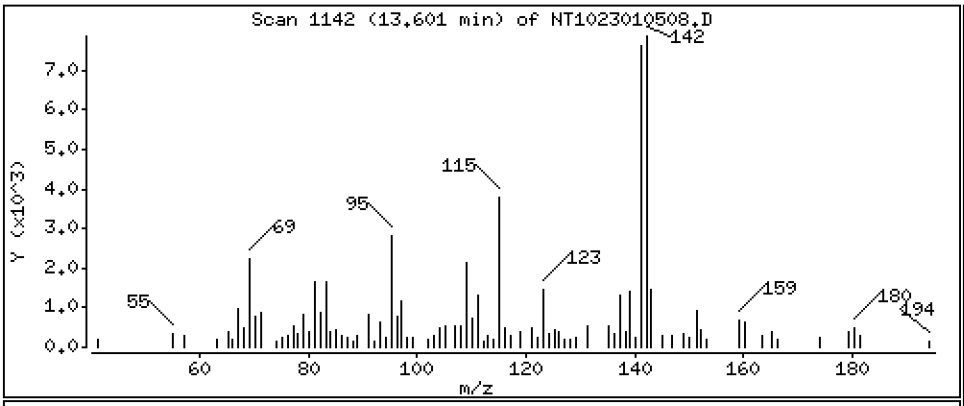
Operator: VTS

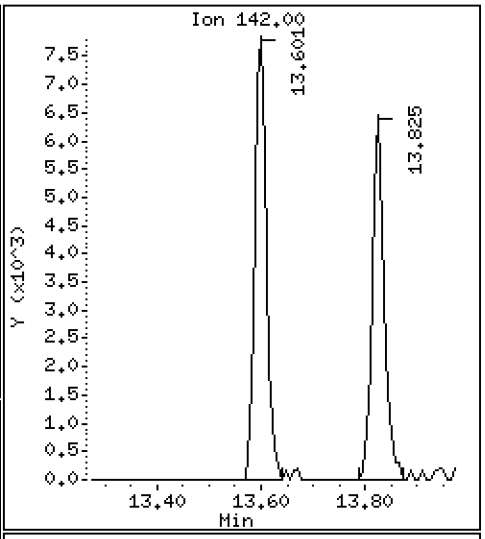
Column phase: ZB-5msi

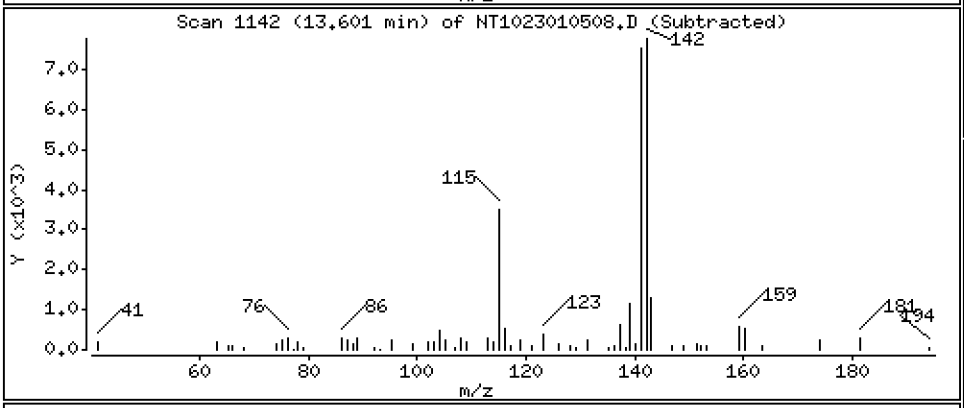
Column diameter: 0.25

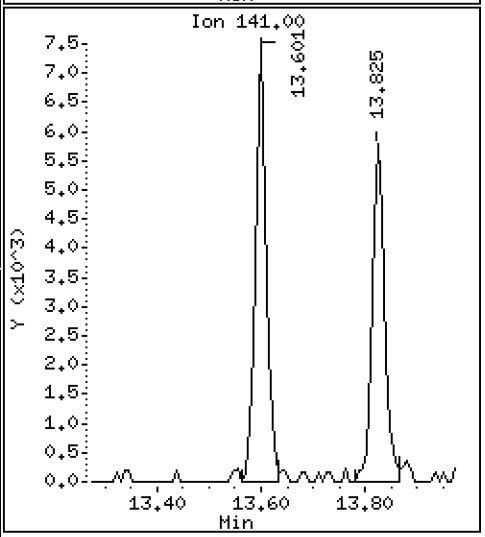
32 2-Methylnaphthalene

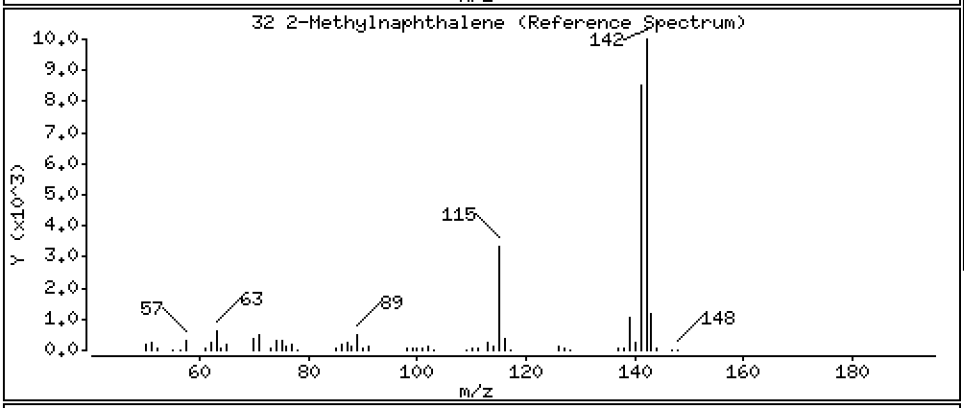
Concentration: 0.2224 ug/mL

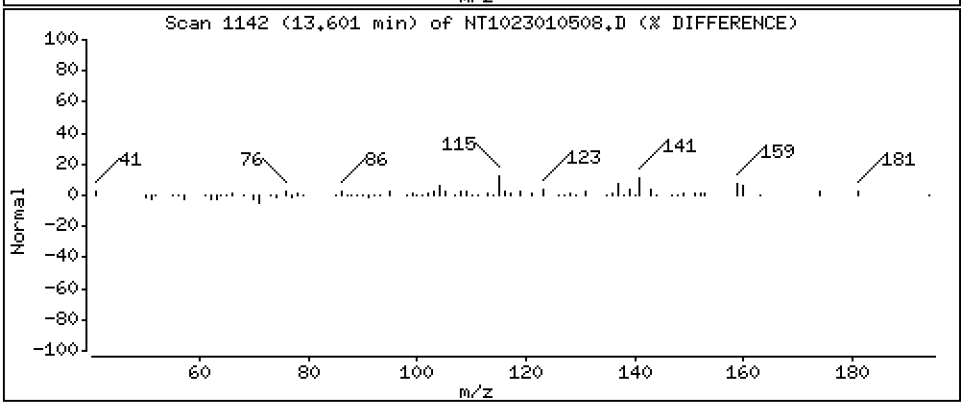












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

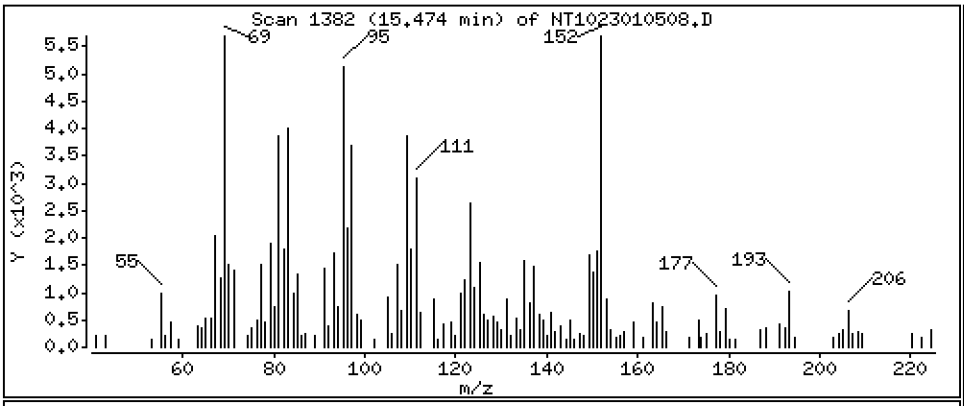
Operator: VTS

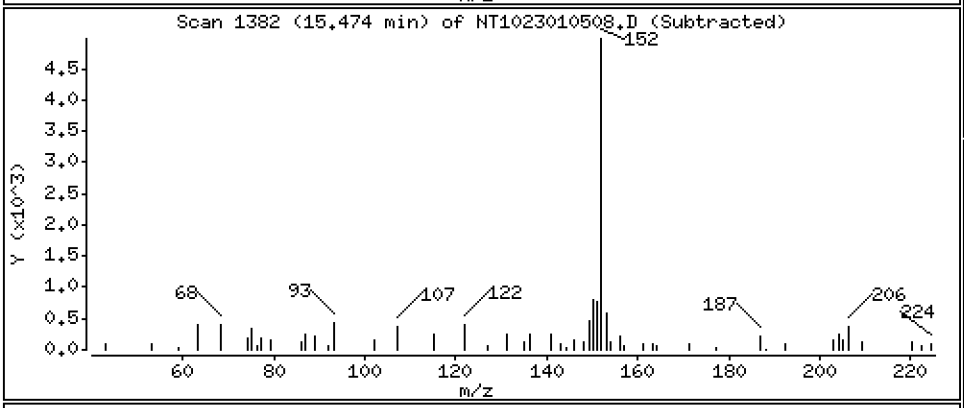
Column phase: ZB-5msi

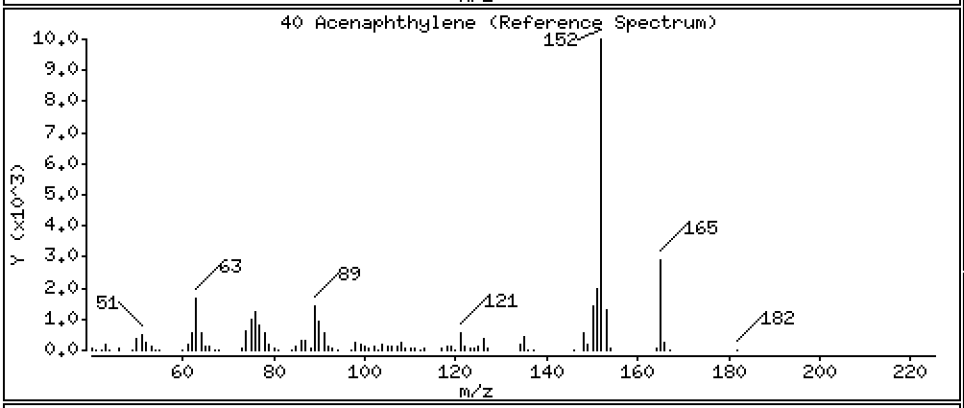
Column diameter: 0.25

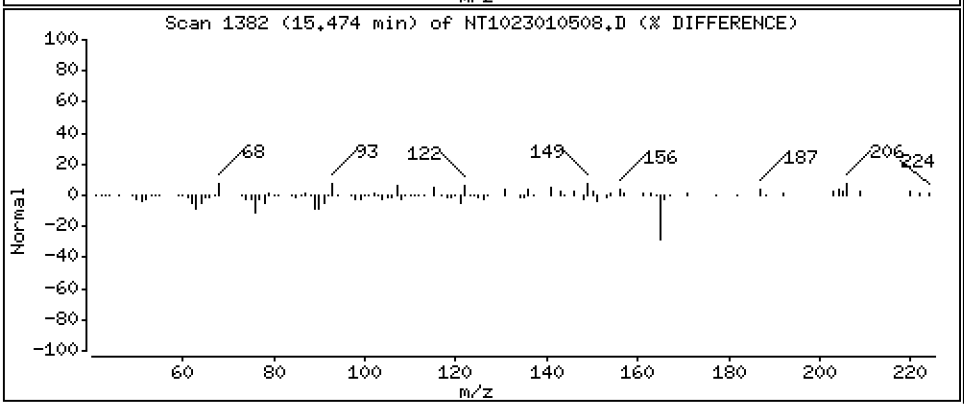
40 Acenaphthylene

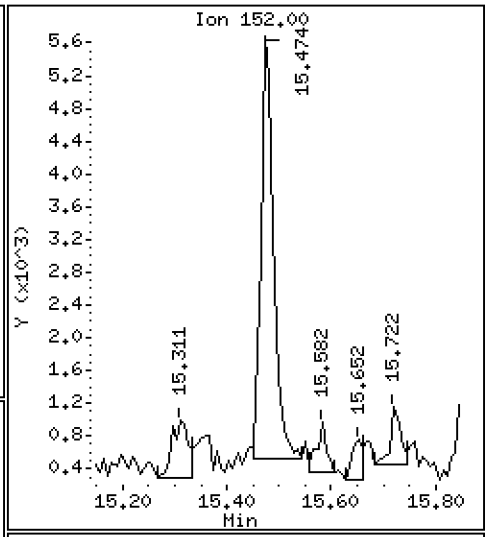
Concentration: 0.1486 ug/mL

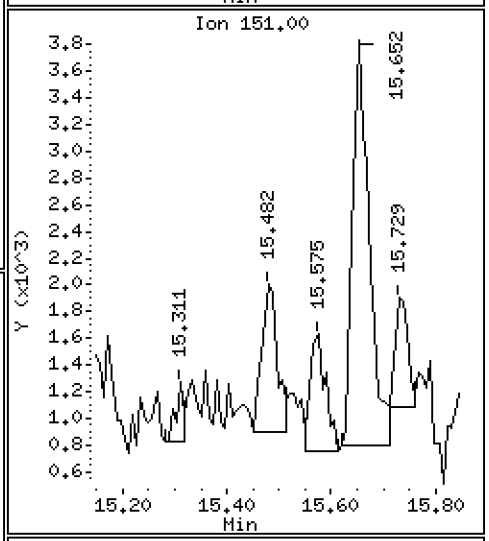


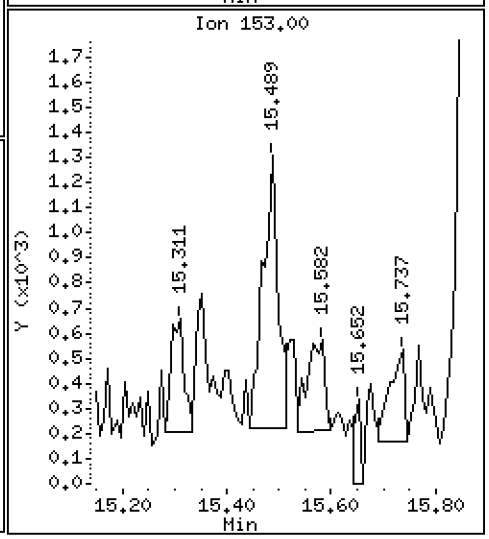












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

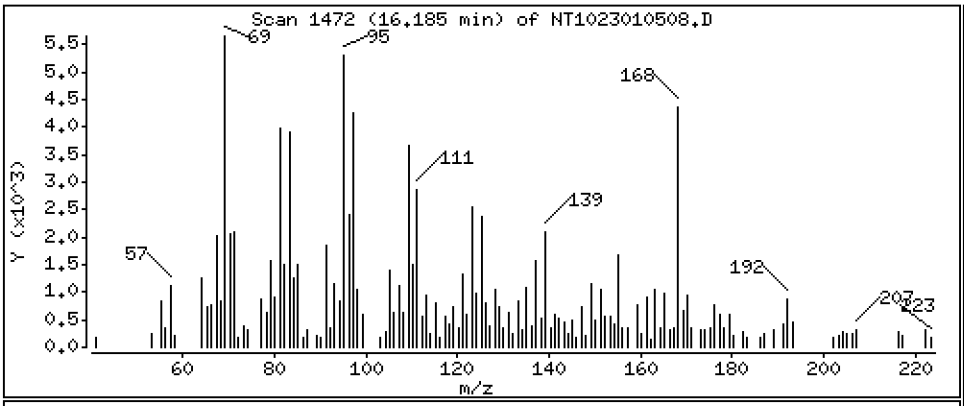
Operator: VTS

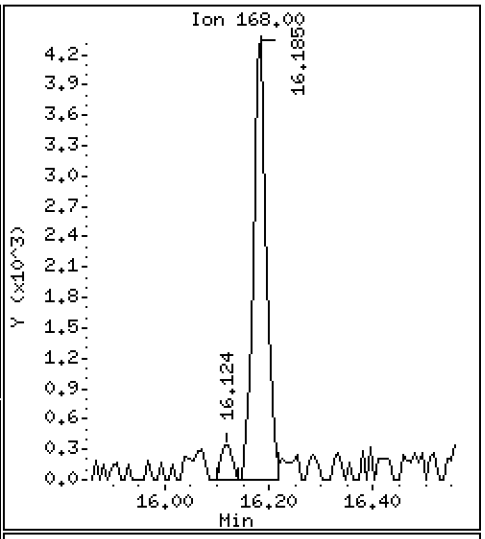
Column phase: ZB-5msi

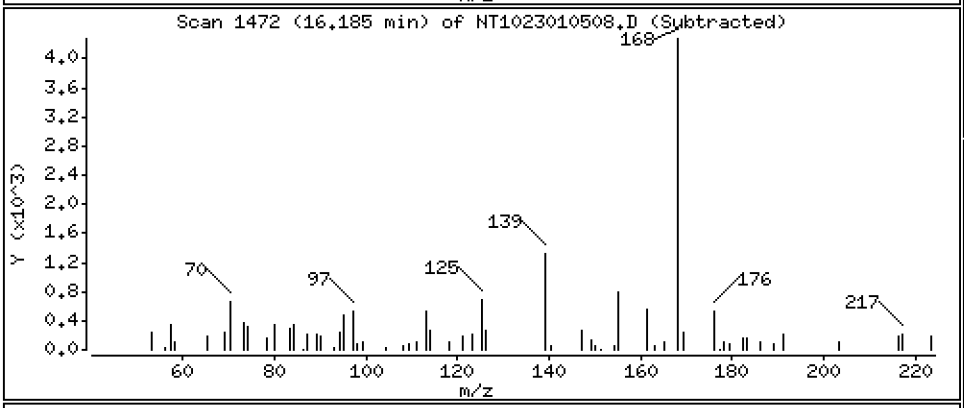
Column diameter: 0.25

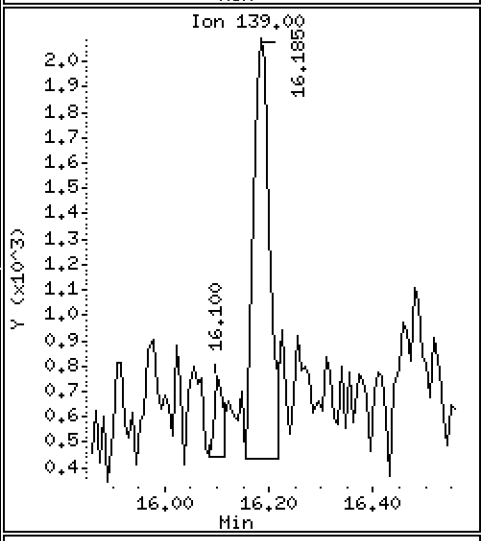
46 Dibenzofuran

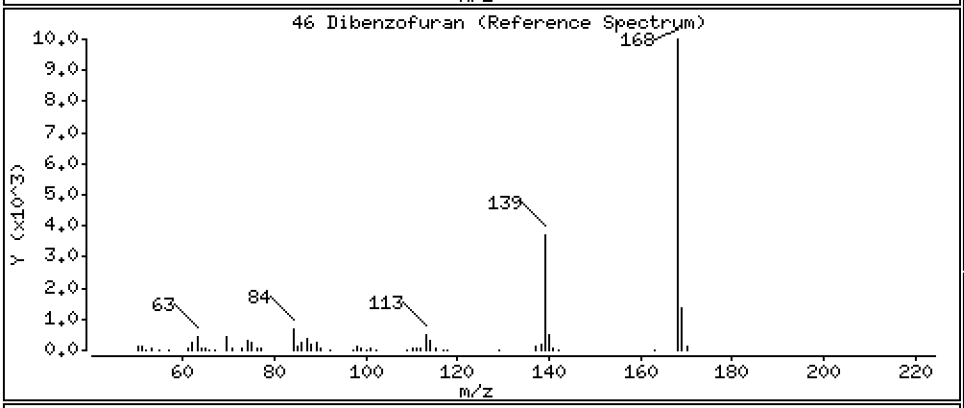
Concentration: 0.1565 ug/mL

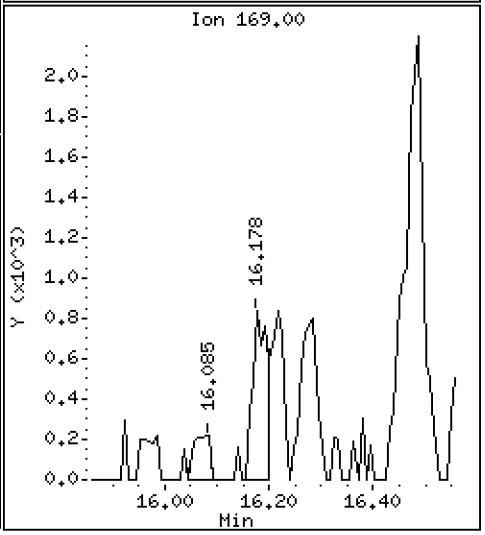


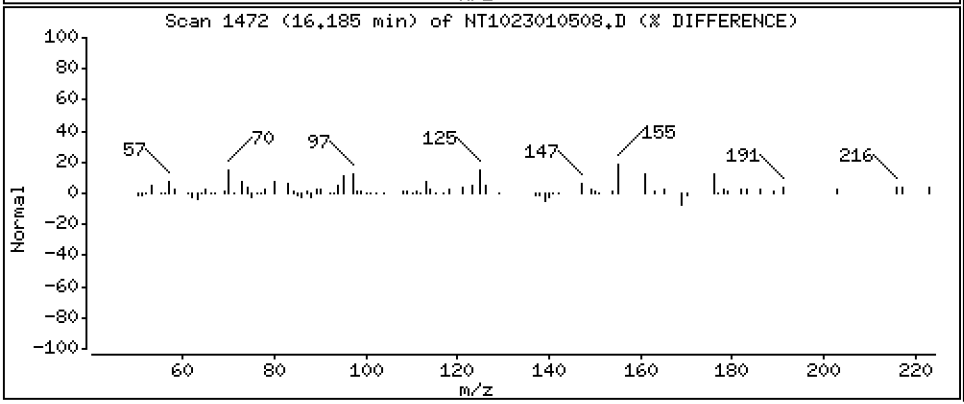












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

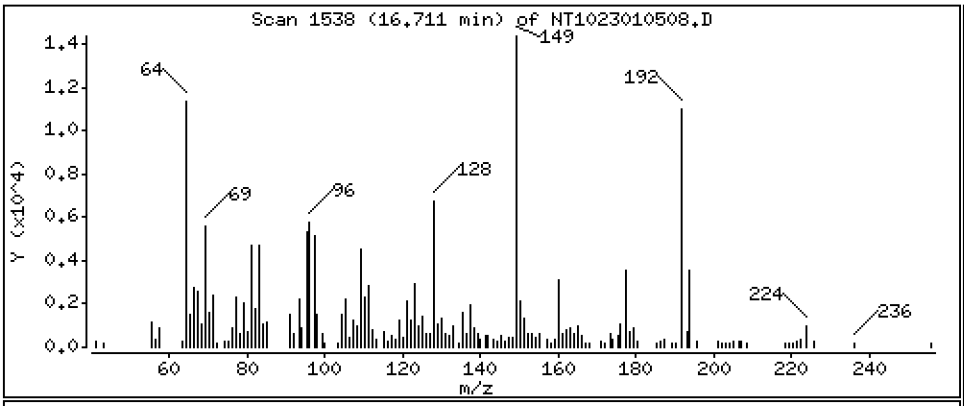
Operator: VTS

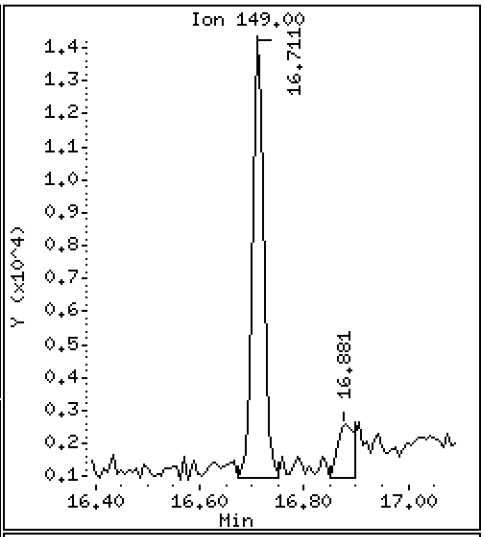
Column phase: ZB-5msi

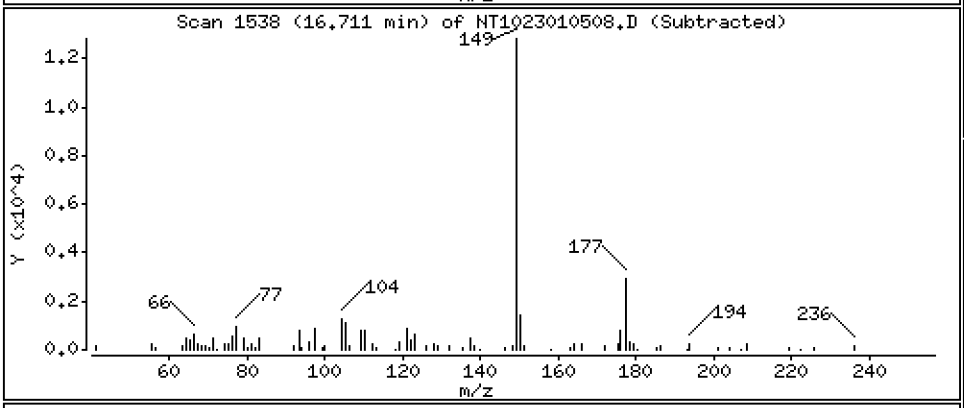
Column diameter: 0.25

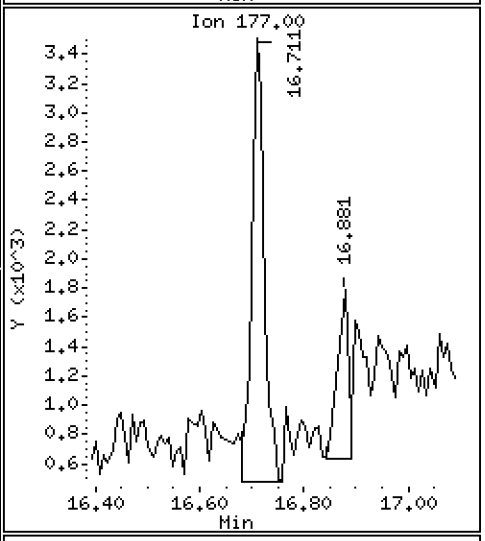
50 Diethylphthalate

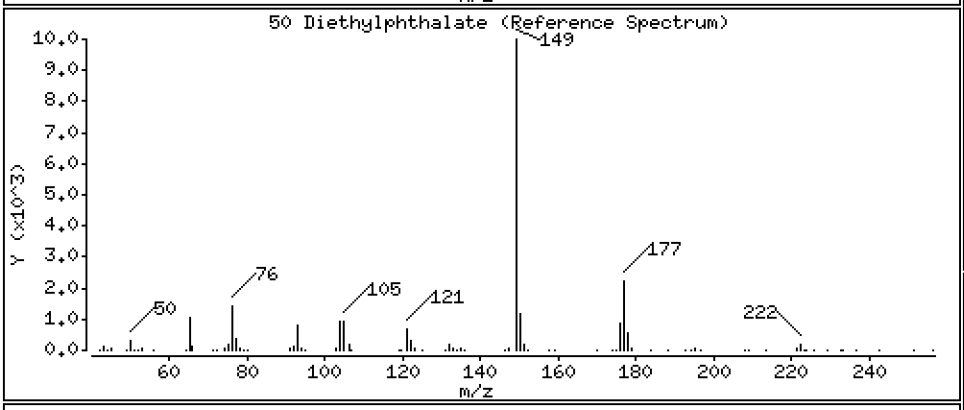
Concentration: 0.5348 ug/mL

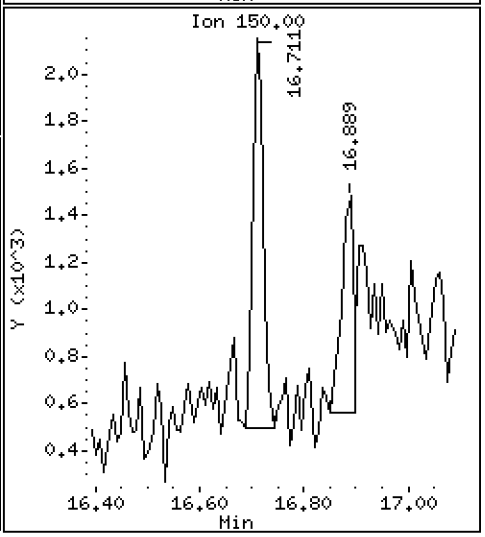


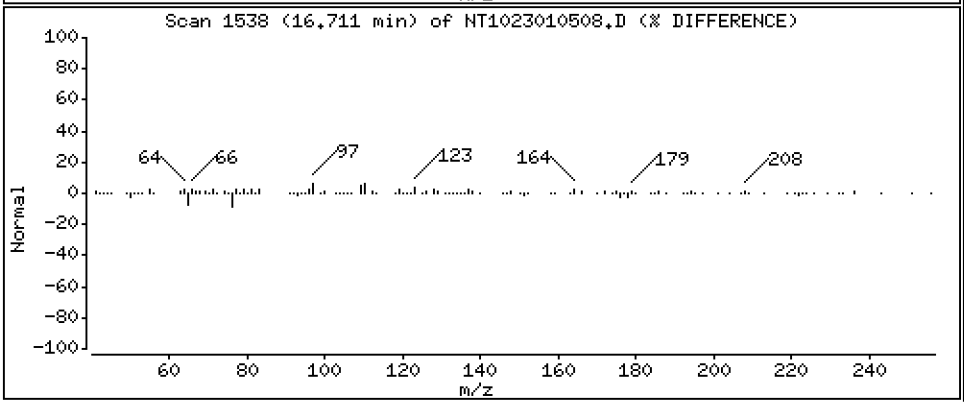












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

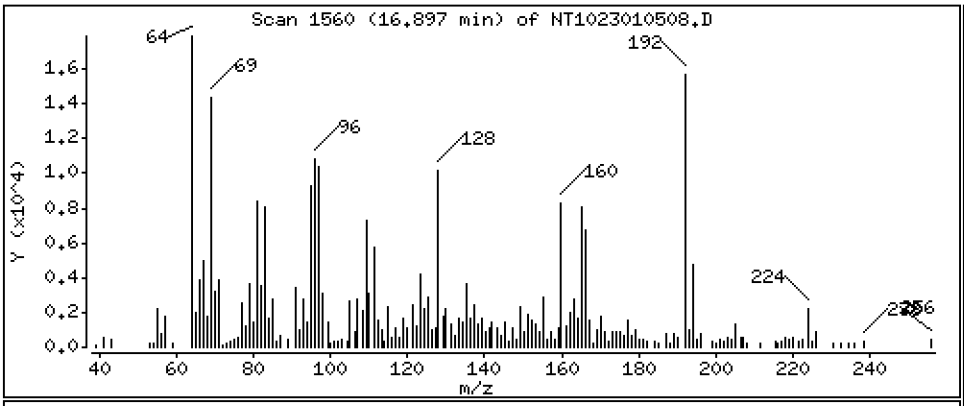
Operator: VTS

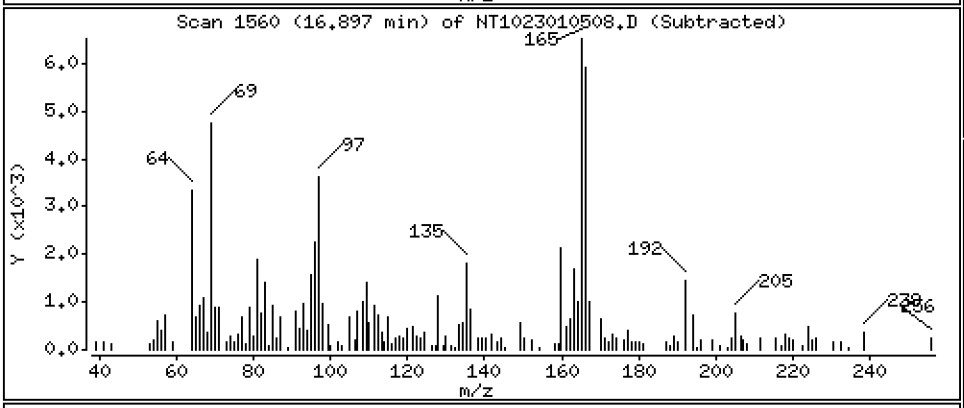
Column phase: ZB-5msi

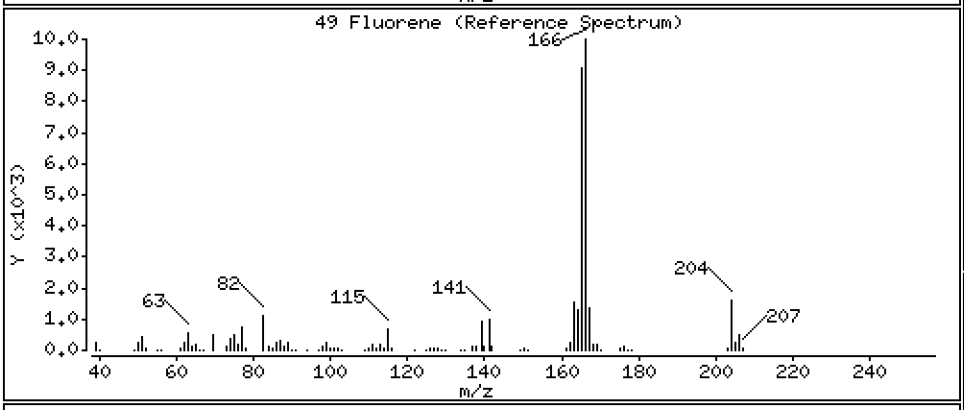
Column diameter: 0.25

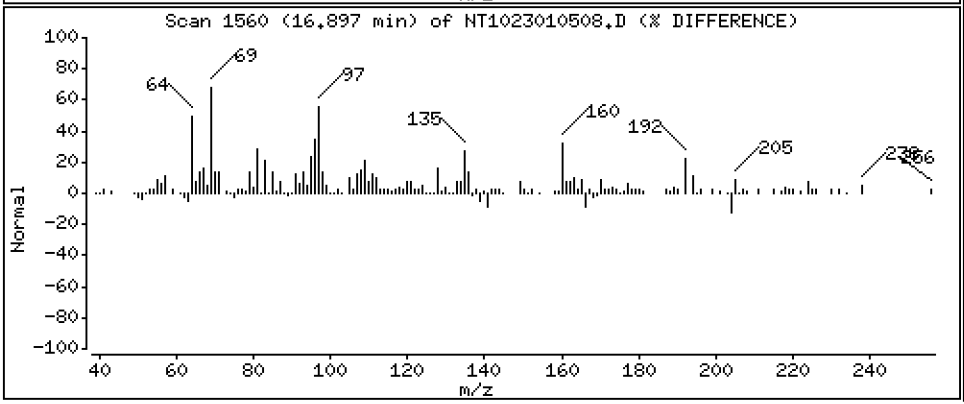
49 Fluorene

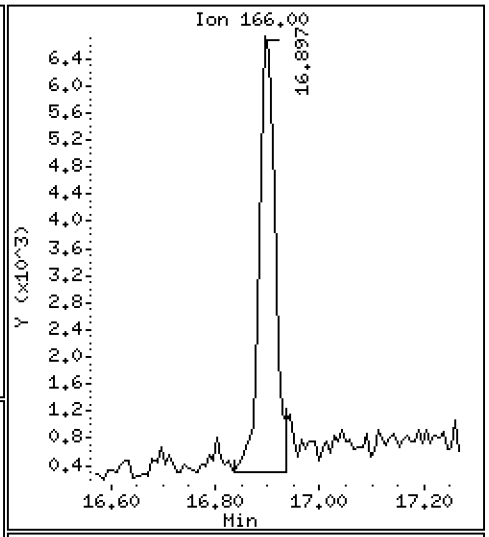
Concentration: 0.2105 ug/mL

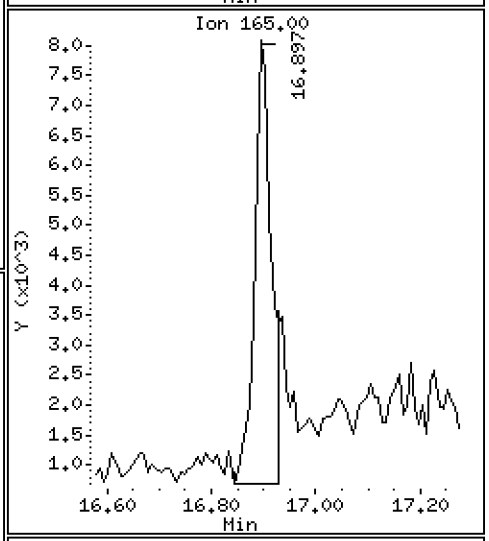


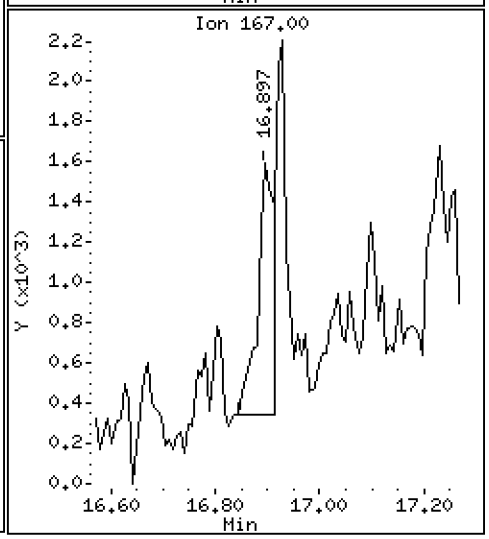












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

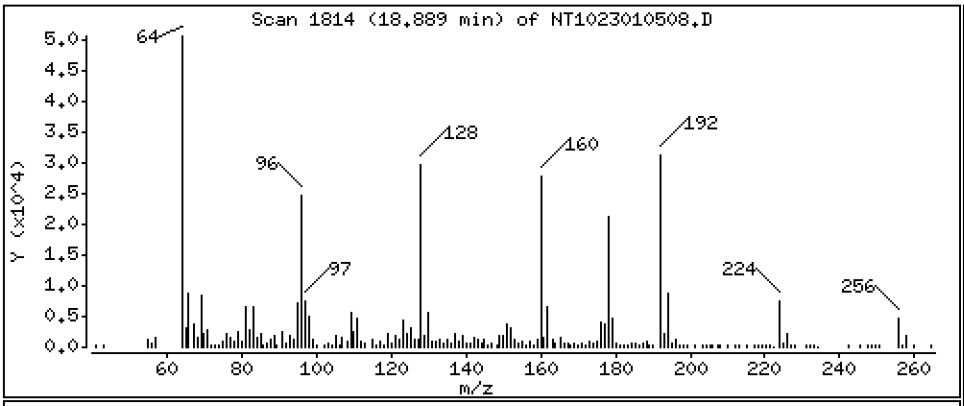
Operator: VTS

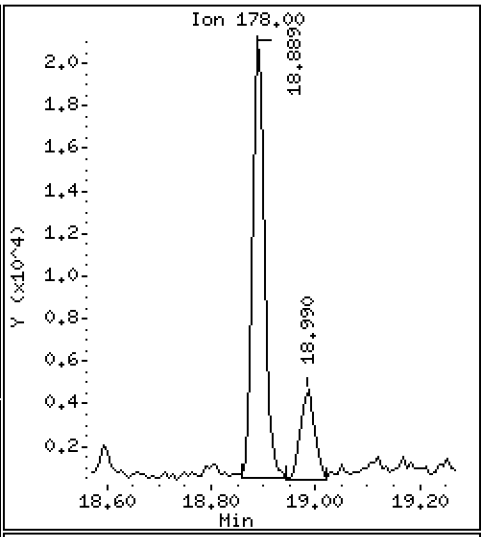
Column phase: ZB-5msi

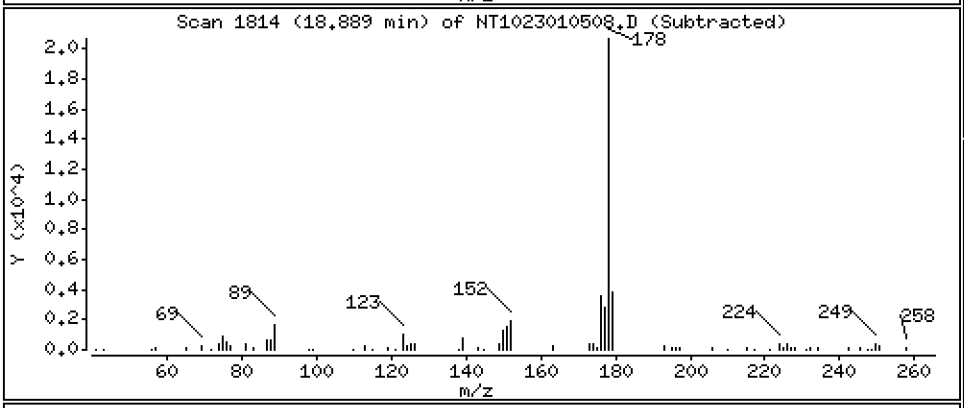
Column diameter: 0.25

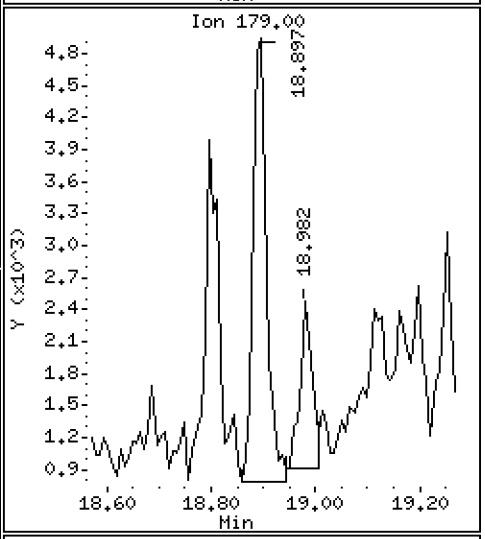
60 Phenanthrene

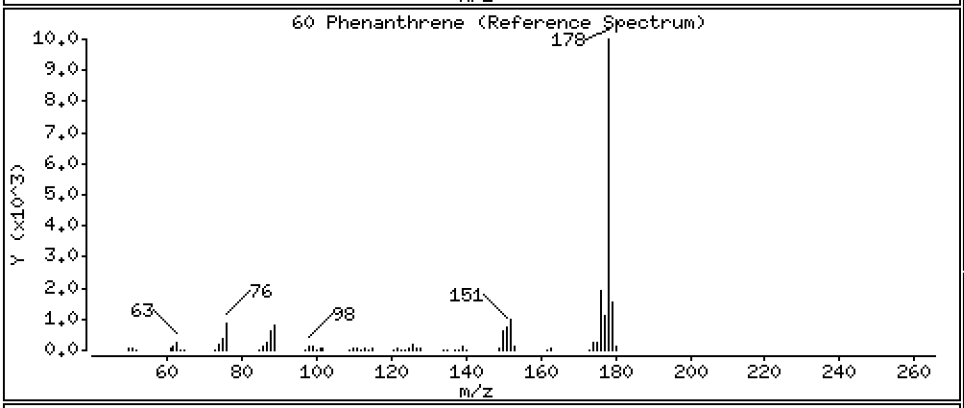
Concentration: 0.7344 ug/mL

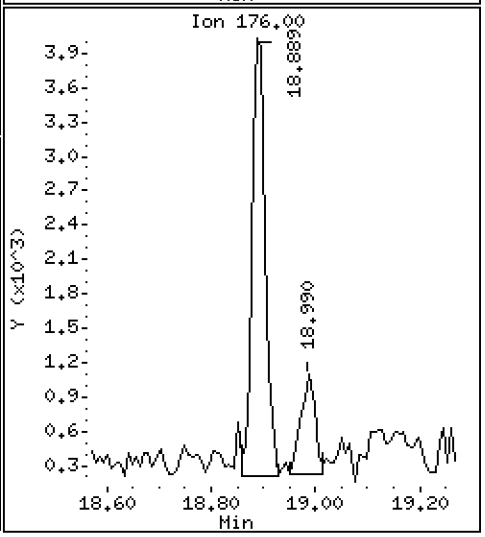


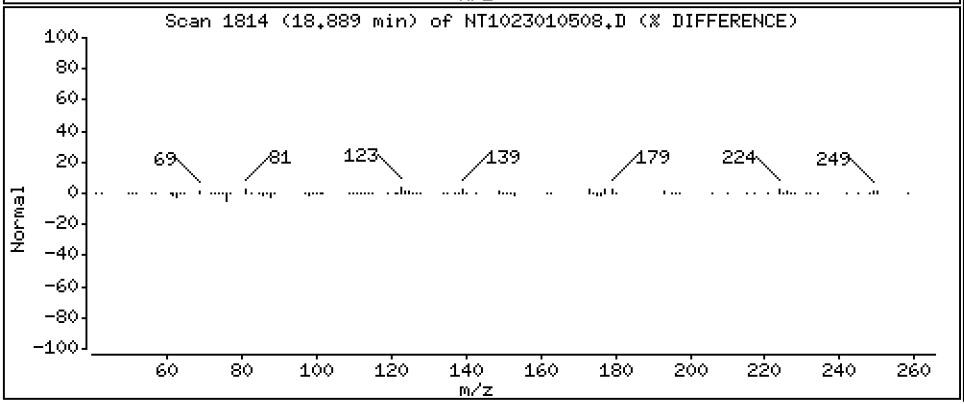












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

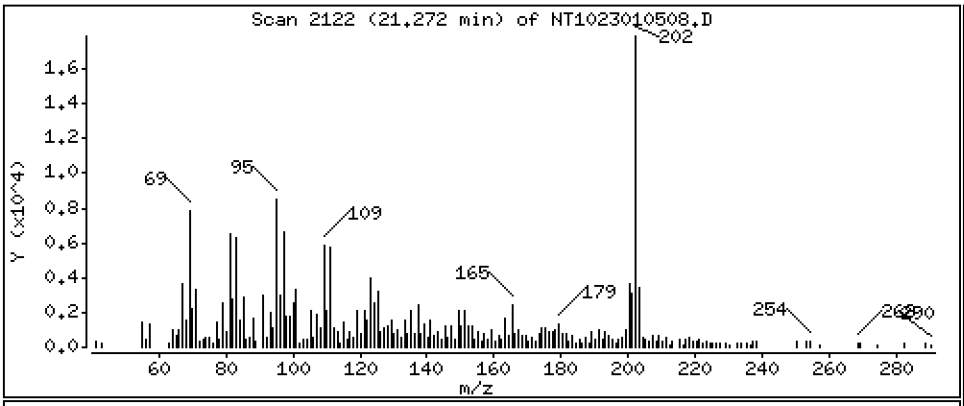
Operator: VTS

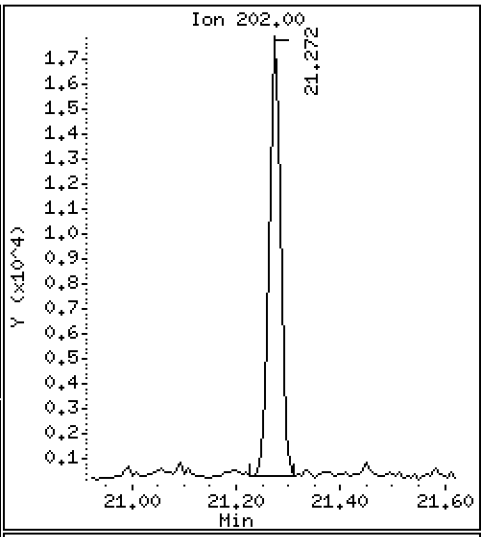
Column phase: ZB-5msi

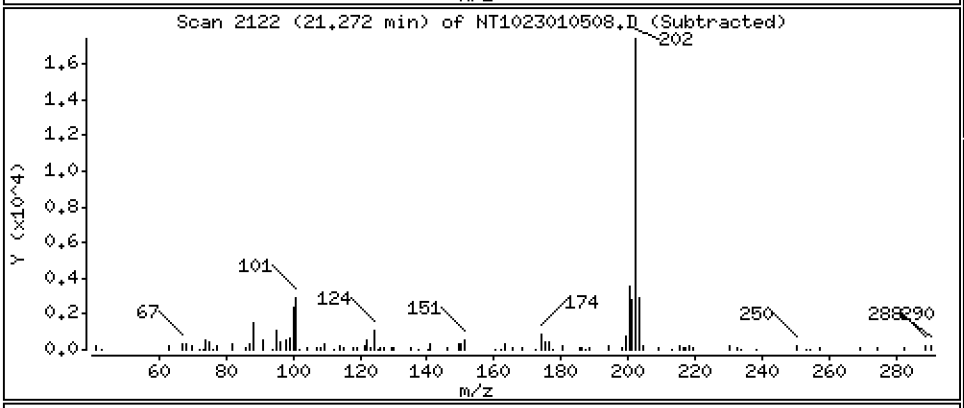
Column diameter: 0.25

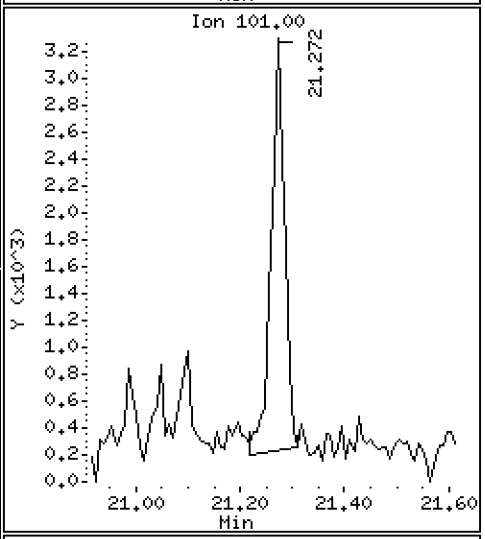
64 Fluoranthene

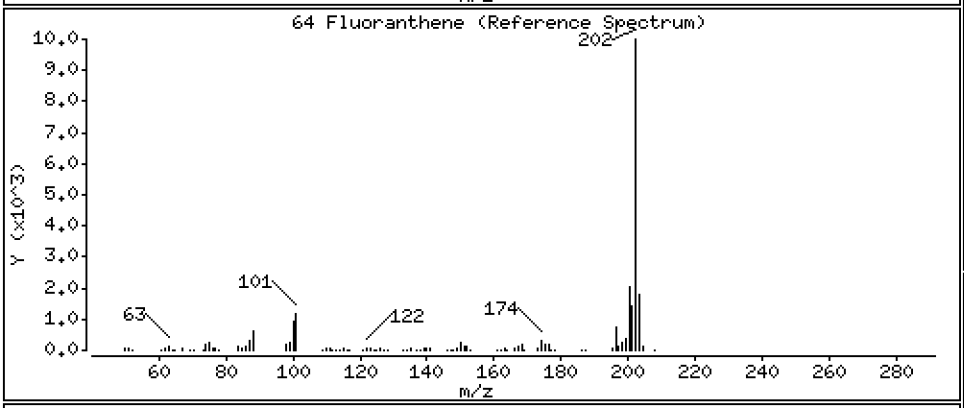
Concentration: 0.6090 ug/mL

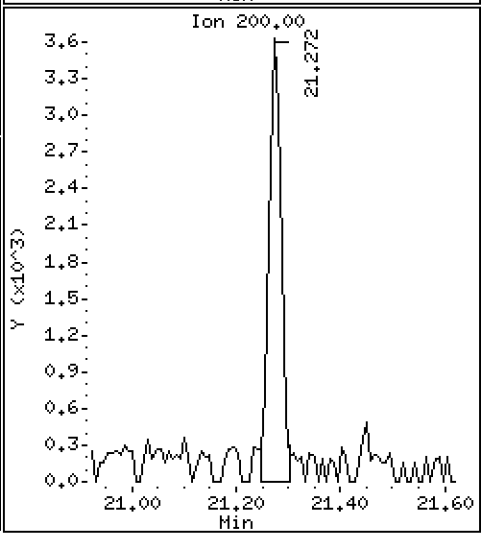


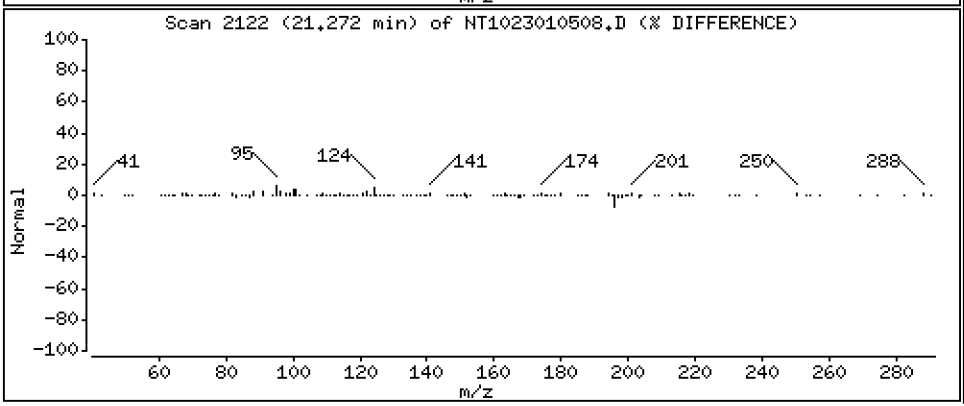












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

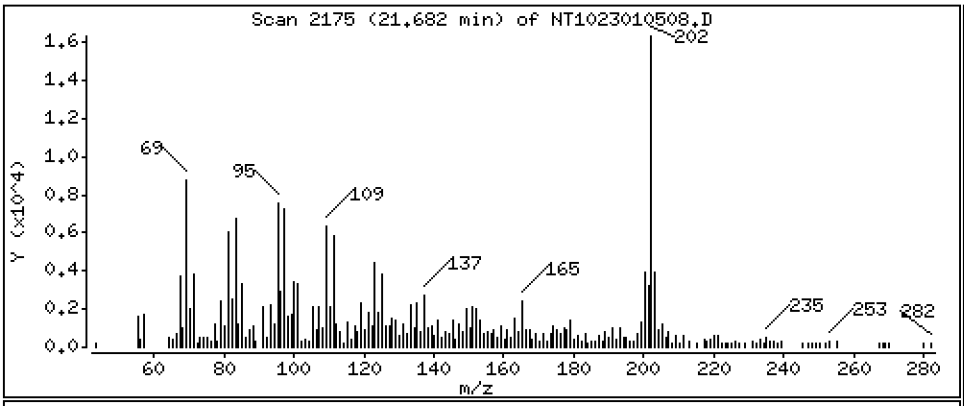
Operator: VTS

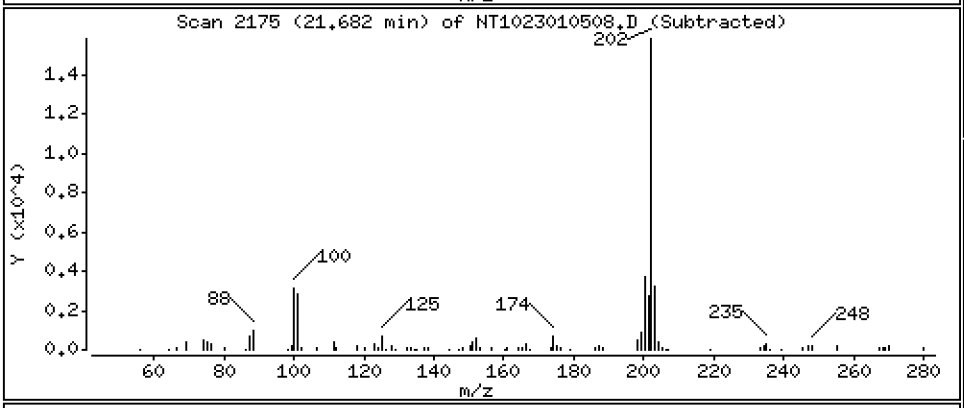
Column phase: ZB-5msi

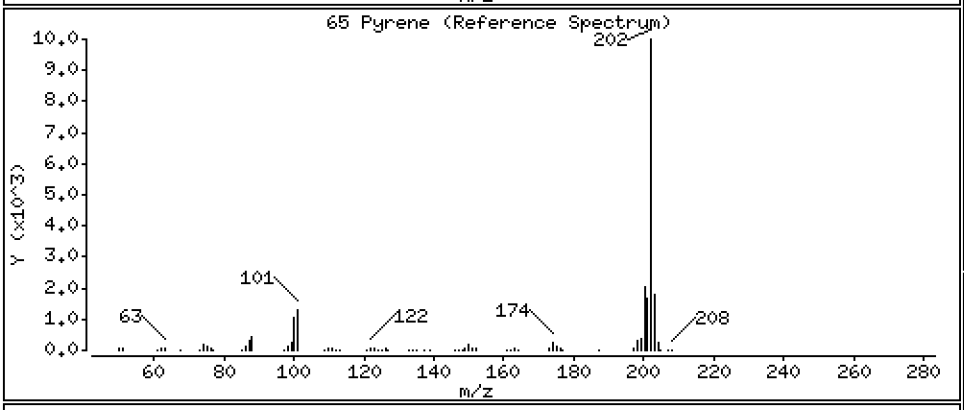
Column diameter: 0.25

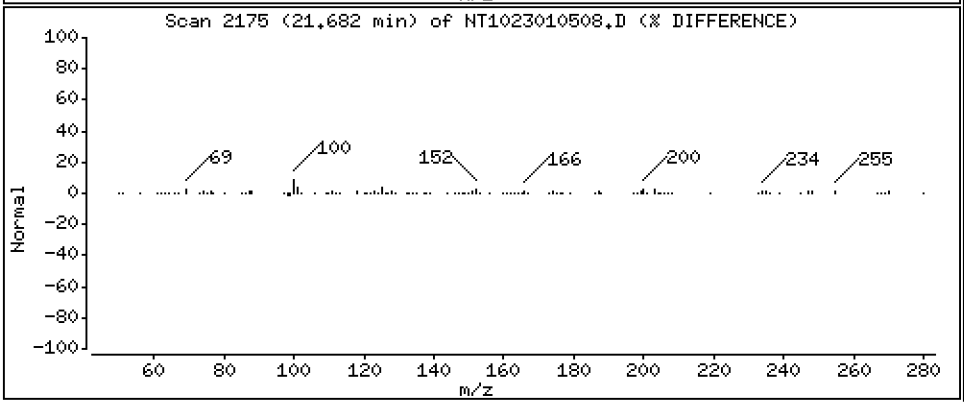
65 Pyrene

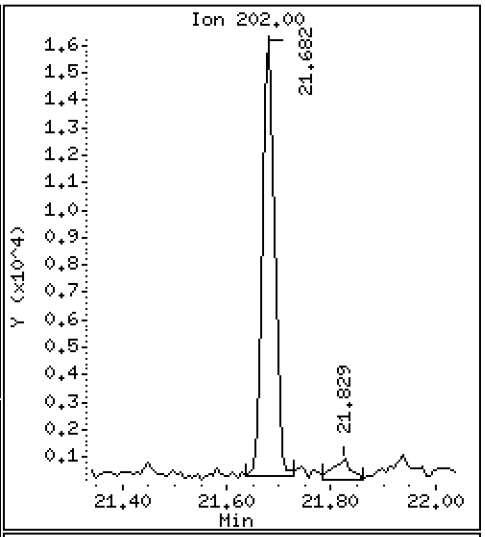
Concentration: 0.6128 ug/mL

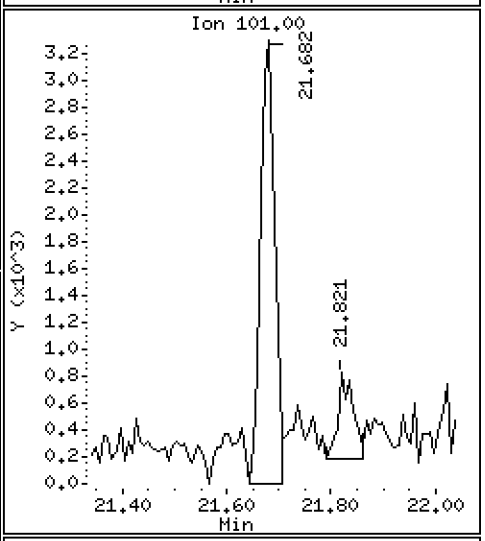


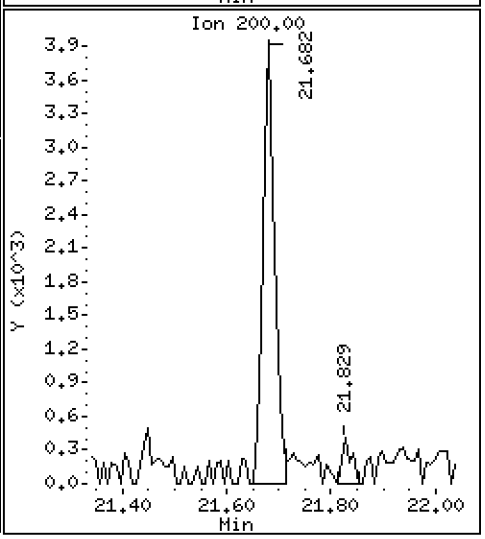












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

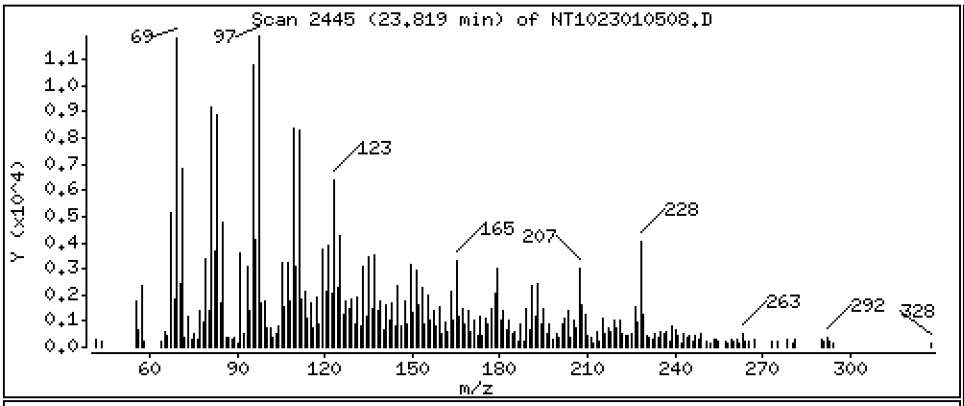
Operator: VTS

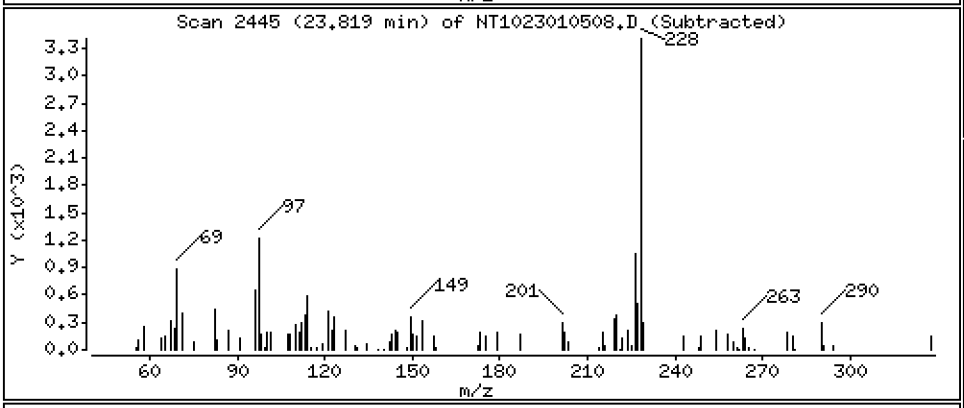
Column phase: ZB-5msi

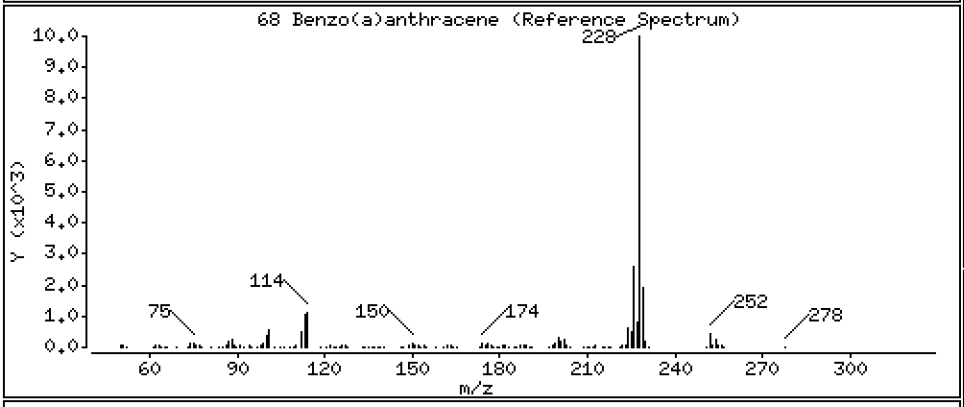
Column diameter: 0.25

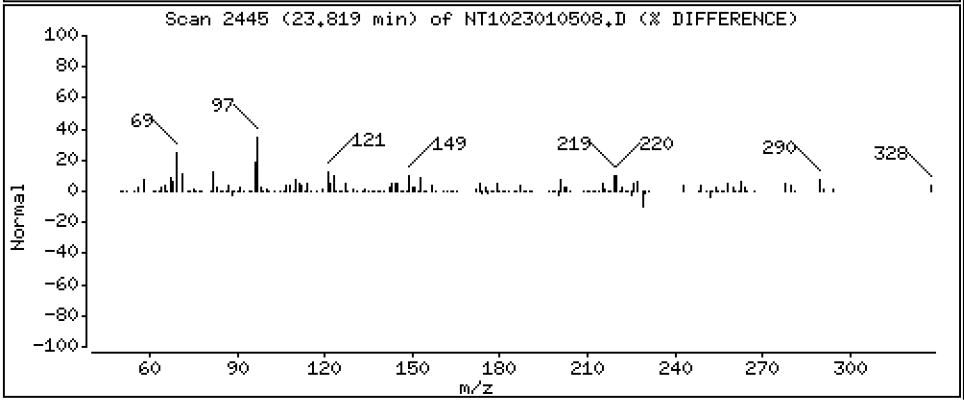
68 Benzo(a)anthracene

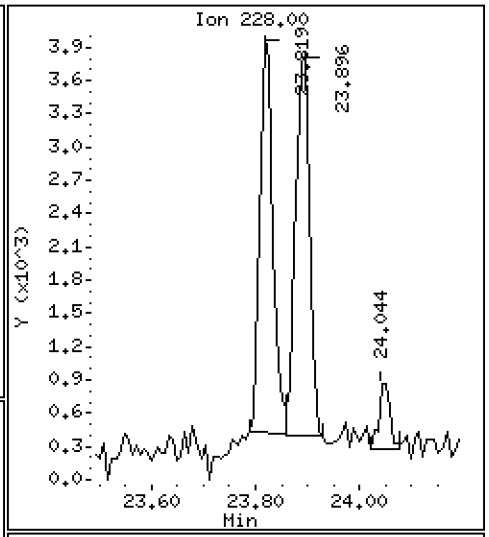
Concentration: 0.2063 ug/mL

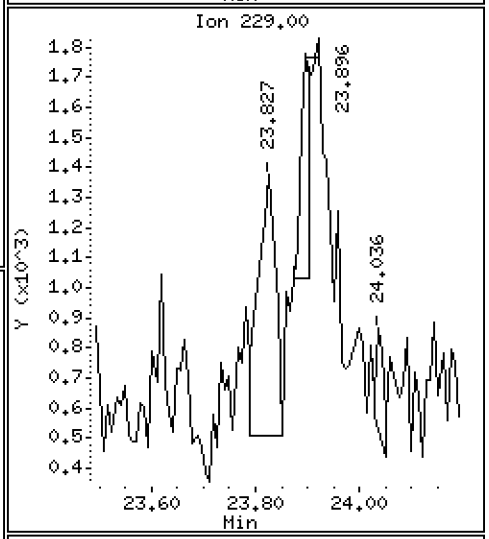


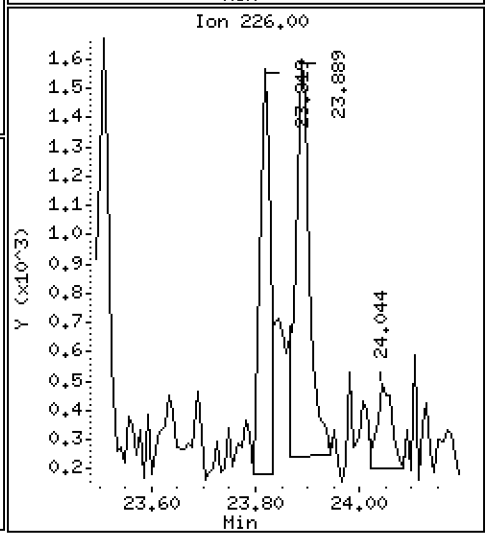












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

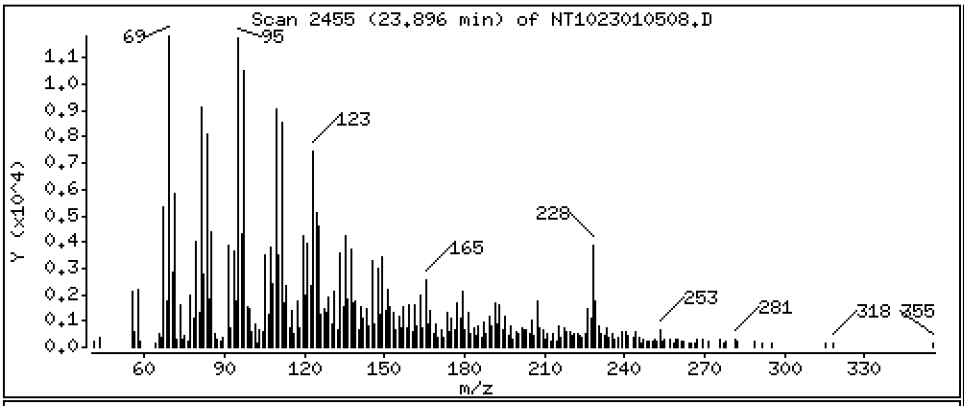
Operator: VTS

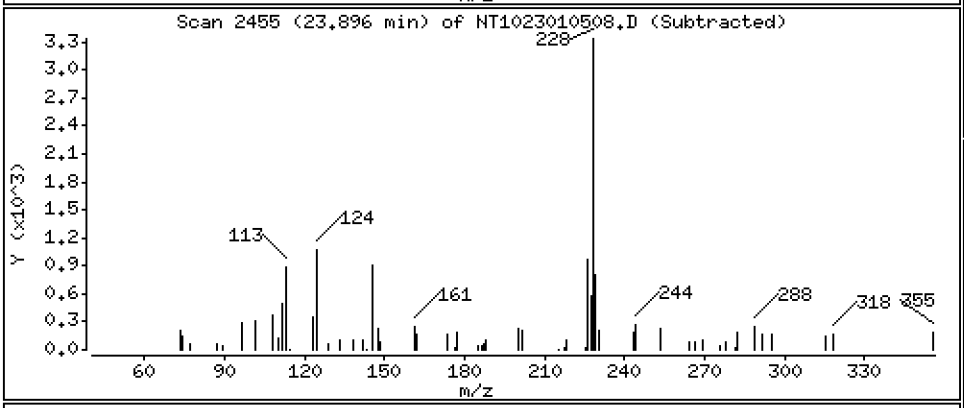
Column phase: ZB-5msi

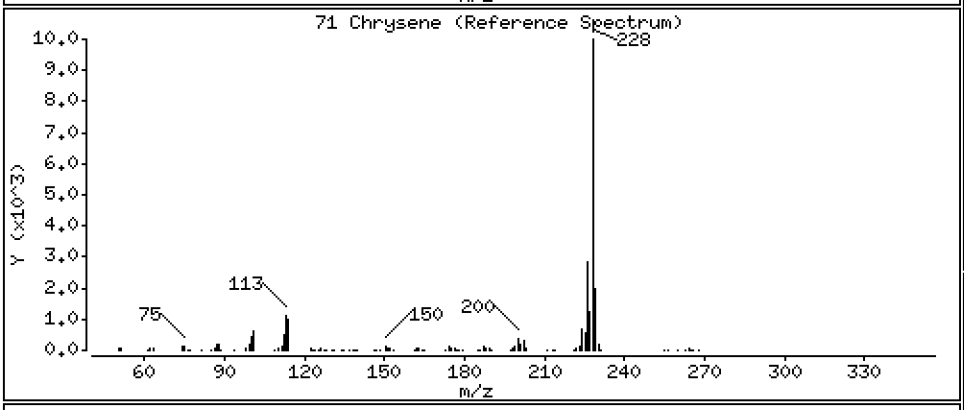
Column diameter: 0.25

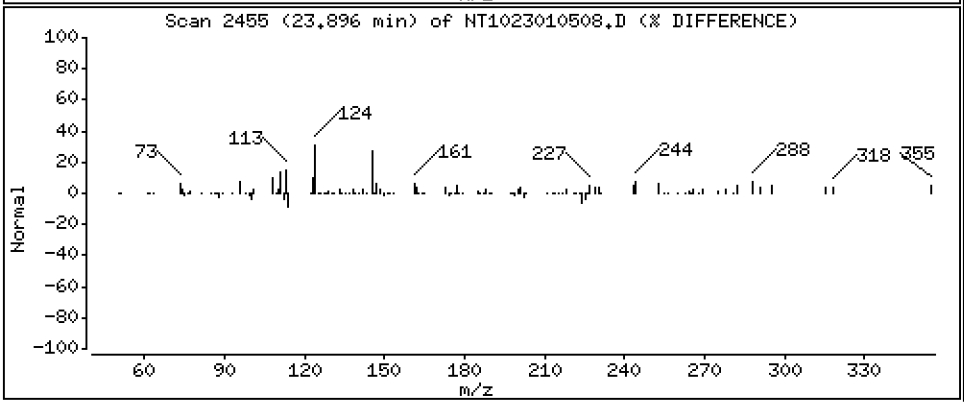
71 Chrysene

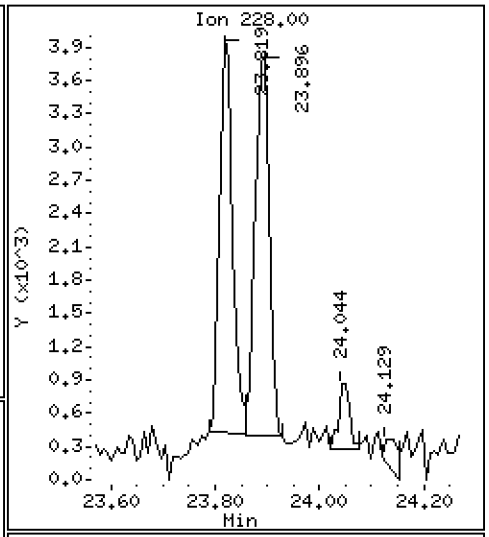
Concentration: 0.2602 ug/mL

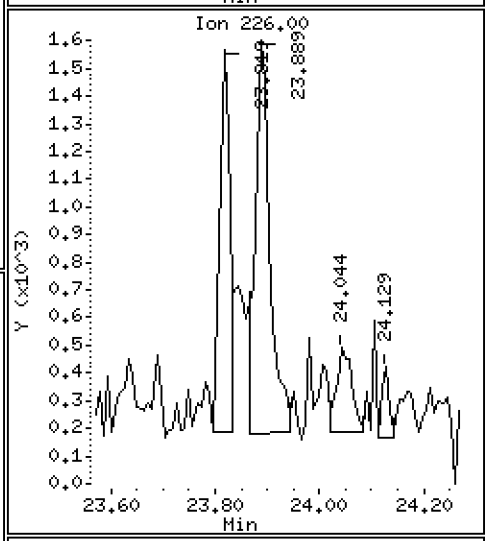


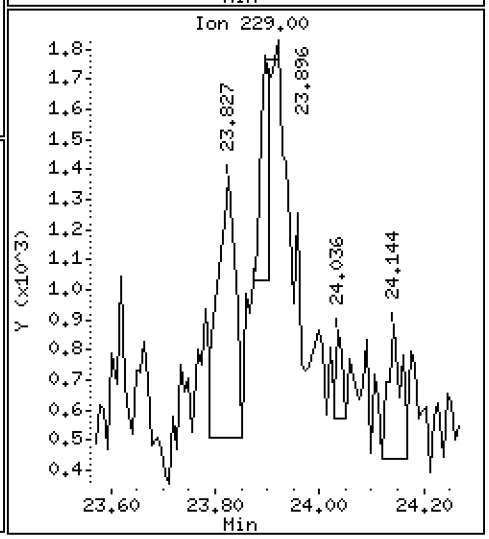












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

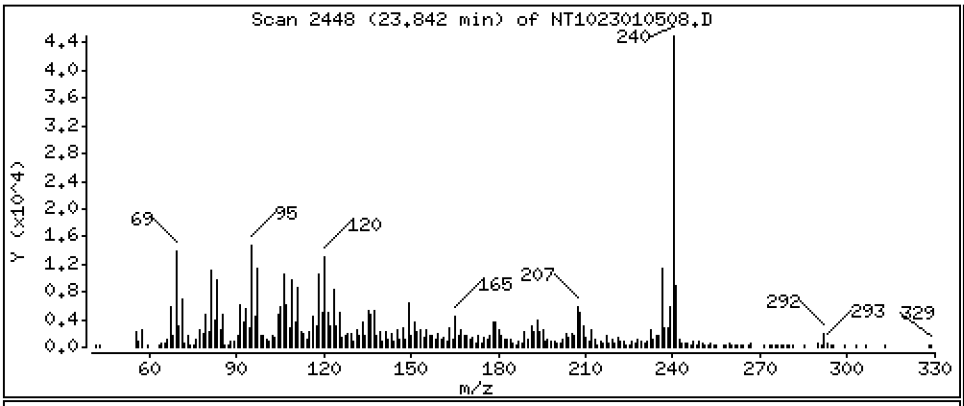
Operator: VTS

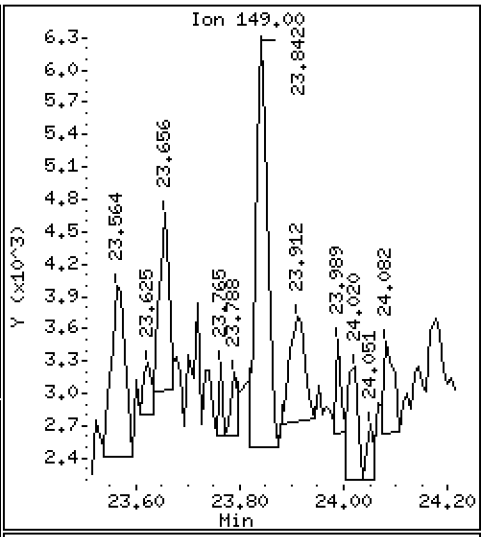
Column phase: ZB-5msi

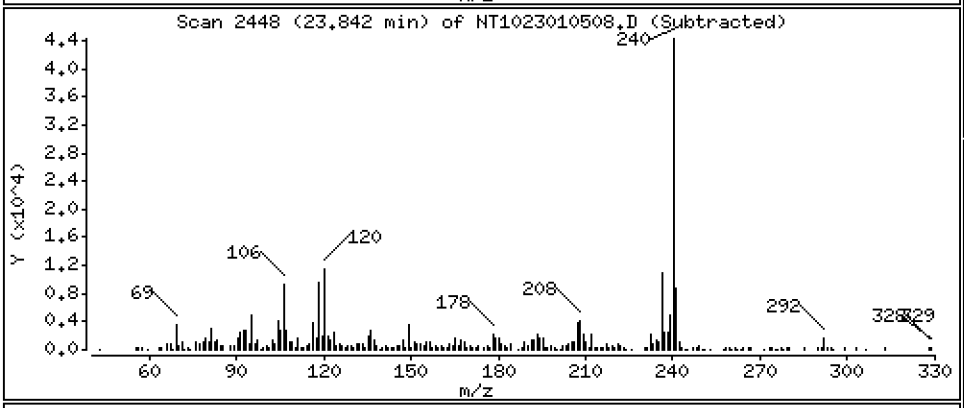
Column diameter: 0.25

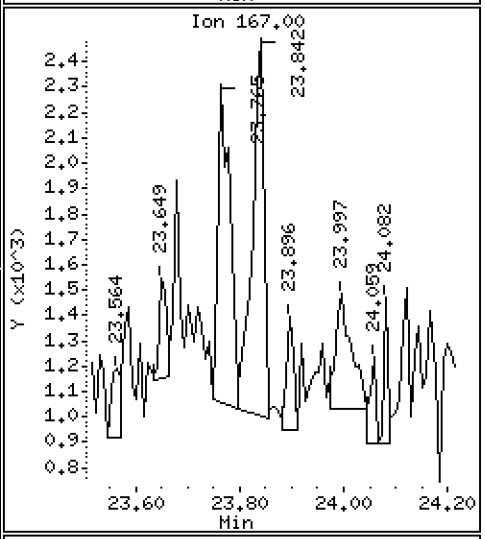
72 bis(2-Ethylhexyl)phthalate

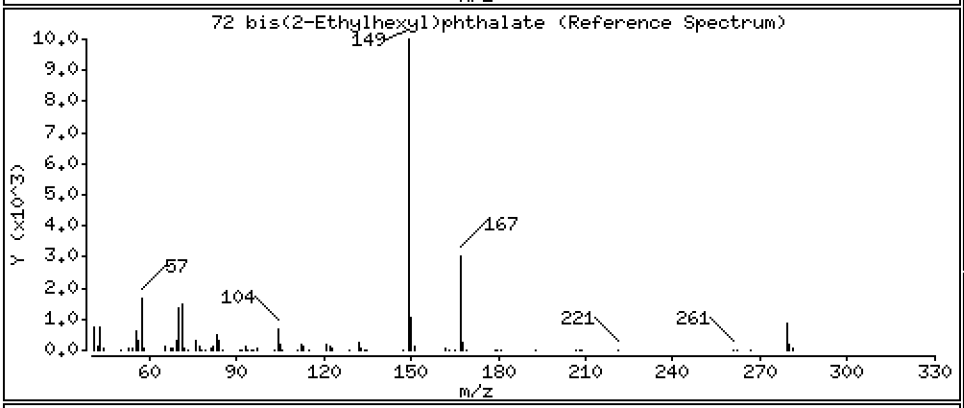
Concentration: 0.1501 ug/mL

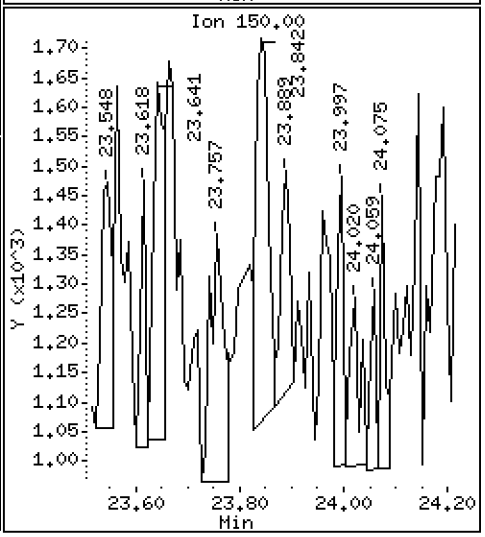


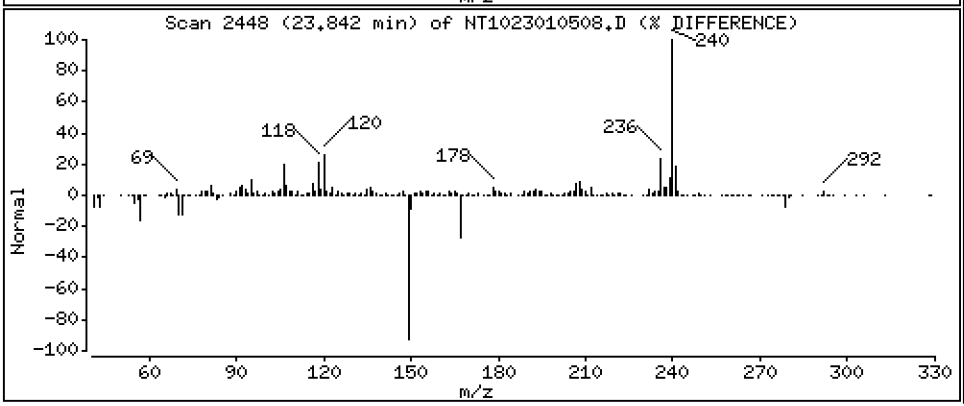












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Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

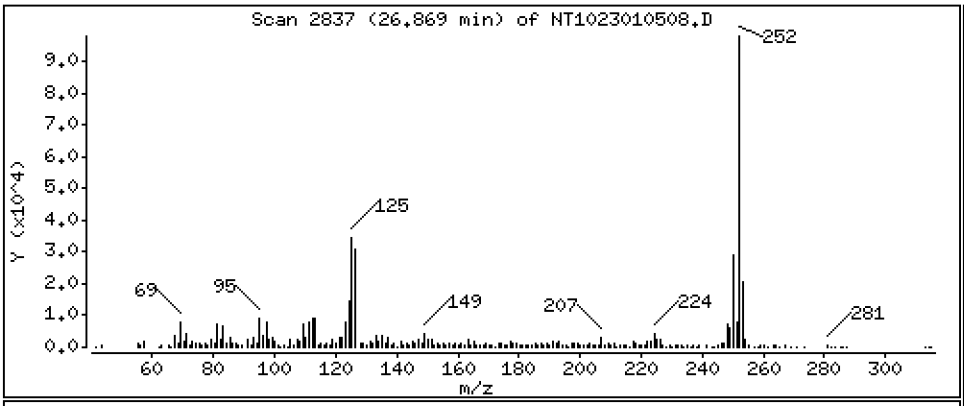
Operator: VTS

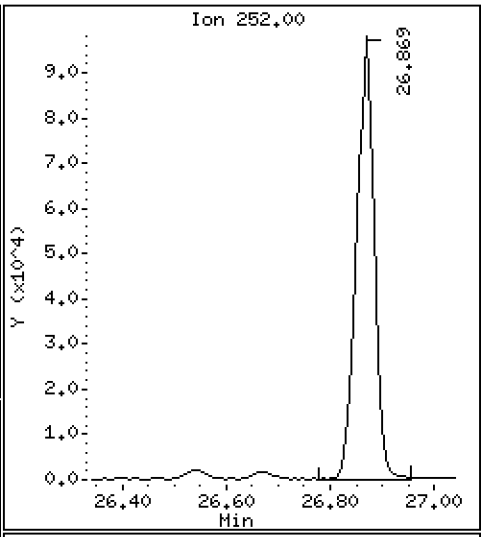
Column phase: ZB-5msi

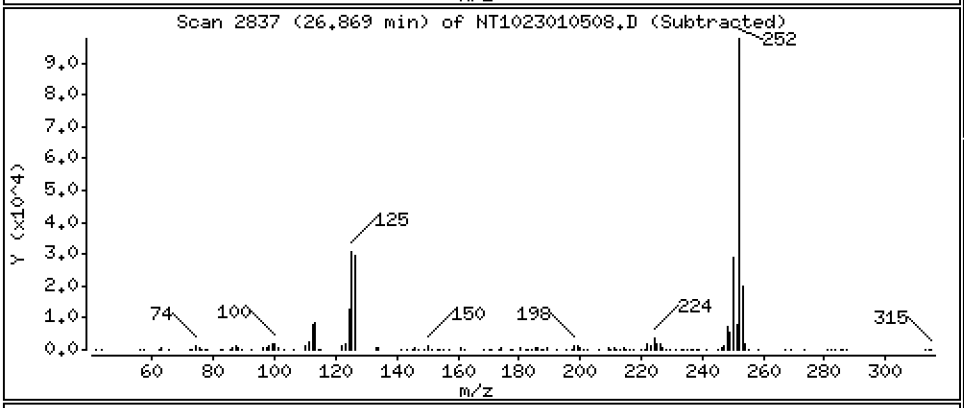
Column diameter: 0.25

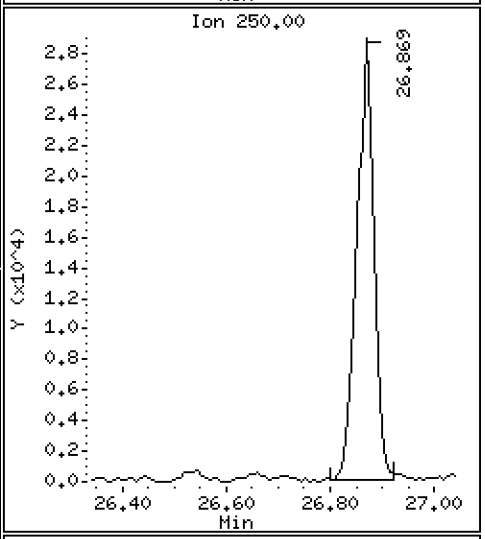
76 Benzo(a)pyrene

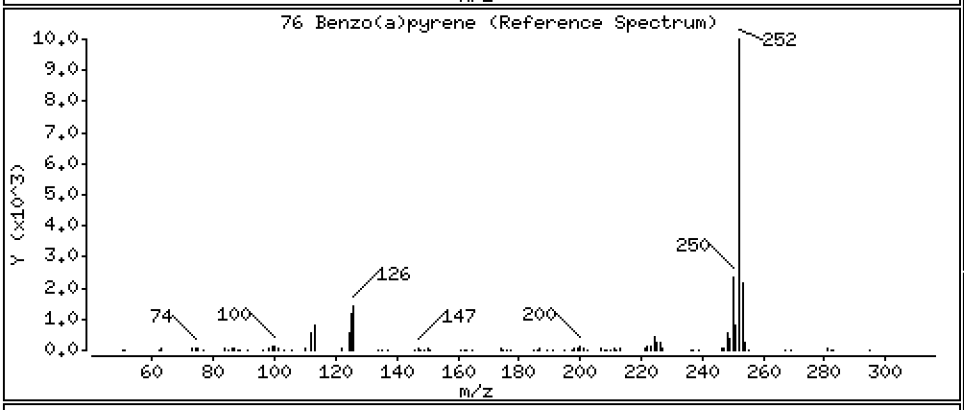
Concentration: 8.295 ug/mL

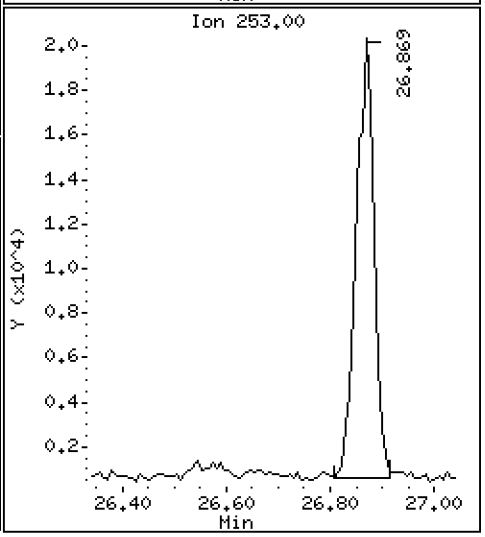


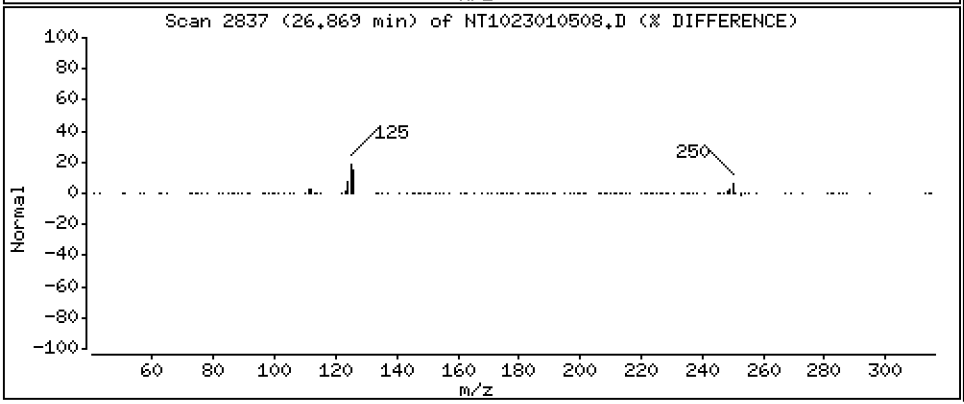












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D

Date : 05-JAN-2023 17:52

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-08

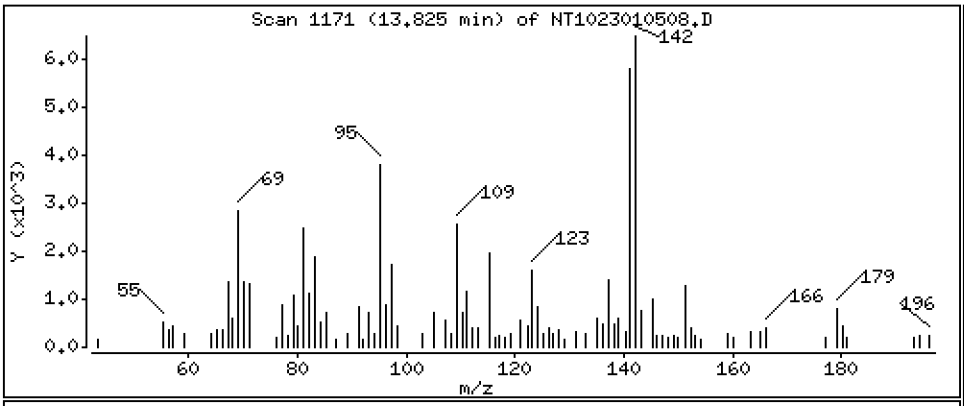
Operator: VTS

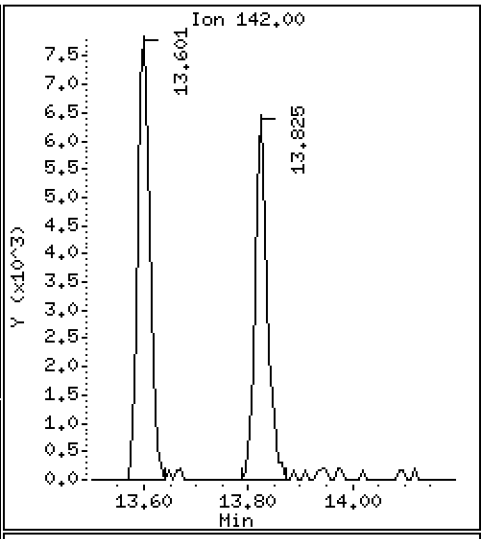
Column phase: ZB-5msi

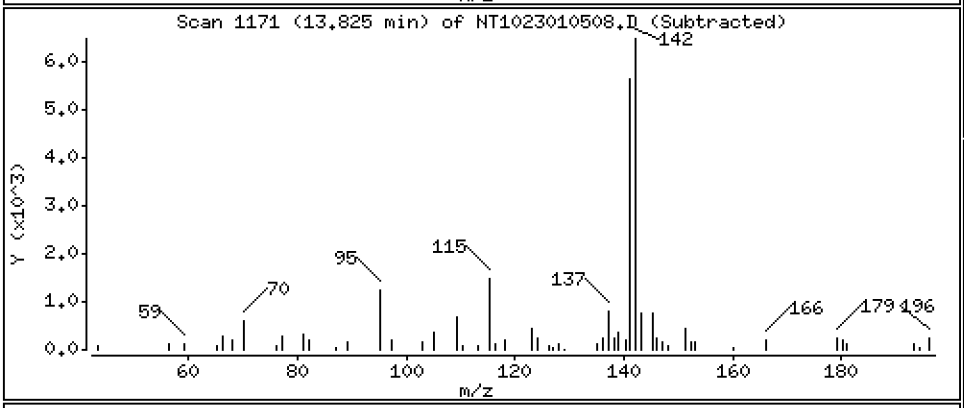
Column diameter: 0.25

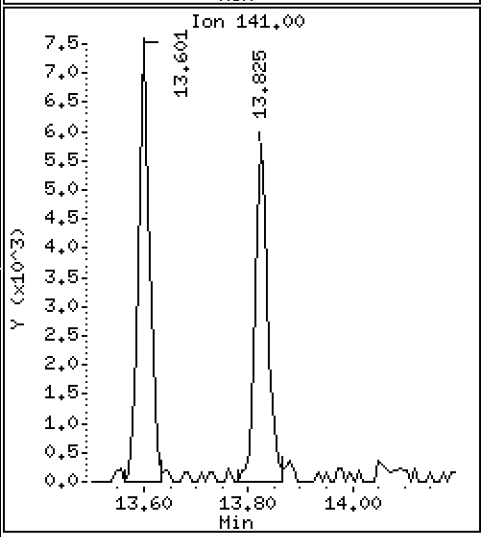
105 1-methylnaphthalene

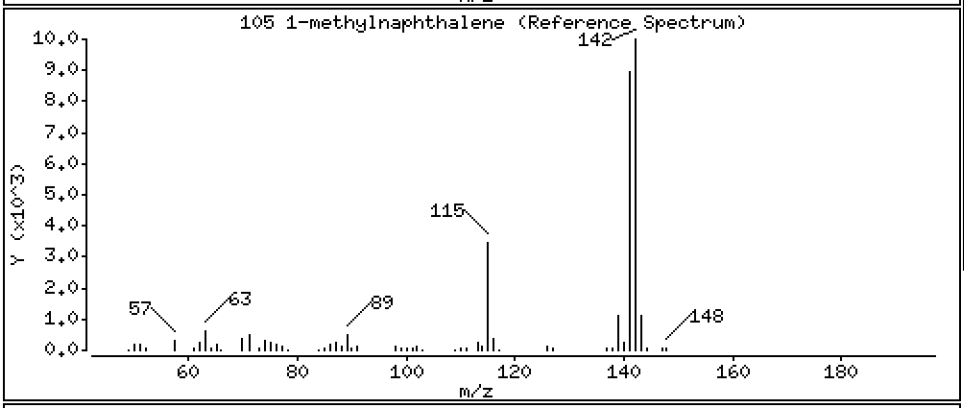
Concentration: 0.1929 ug/mL

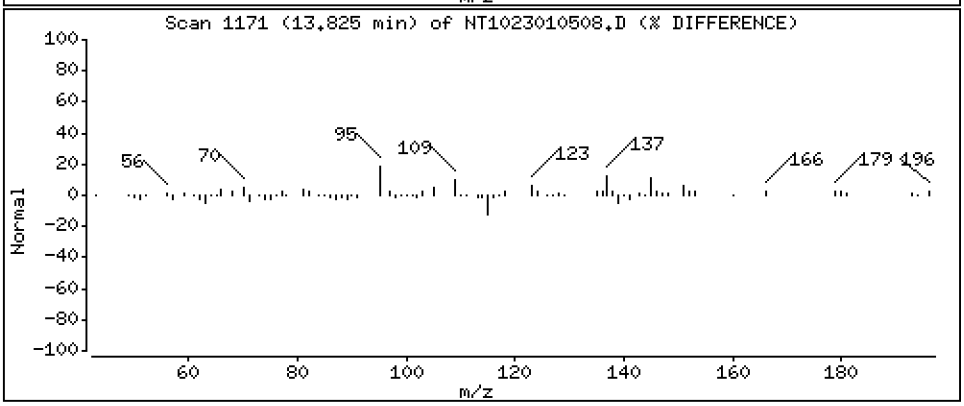












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010508.D
Lab Smp Id: 22L0246-08
Inj Date : 05-JAN-2023 17:52
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-08
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 8
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	145237	5.39389	5.394
$	2 Phenol-d5	99	9.005	9.012	(0.931)	173545	5.37762	5.378
	3 Phenol	94	9.028	9.036	(0.934)	3463	0.11465	0.1147
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	188722	6.65277	6.653
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	82439	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	72233	4.08779	4.088
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	10.415	10.422	(1.077)	2560	0.18380	0.1838
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	94253	4.36755	4.368
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.162	12.185	(1.000)	323875	4.00000	
	28 Naphthalene	128	12.200	12.224	(1.003)	33438	0.46952	0.4695
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	13.600	13.624	(1.118)	12529	0.22243	0.2224
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	221709	4.86787	4.868
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	15.473	15.497	(0.980)	8688	0.14862	0.1486
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	122939	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.185	16.208	(1.025)	7714	0.15649	0.1565
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.711	16.742	(1.058)	20913	0.53484	0.5348
	49	Fluorene	166	16.896	16.919	(1.070)	15235	0.21052	0.2105
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	20070	7.89467	7.895
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.842	18.865	(1.000)	192862	4.00000	
	60	Phenanthrene	178	18.888	18.919	(1.002)	34361	0.73435	0.7344
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	21.271	21.271	(0.892)	25434	0.60896	0.6090
	65	Pyrene	202	21.682	21.689	(0.909)	25704	0.61280	0.6128
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	106478	4.14538	4.145
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.819	23.842	(0.999)	5902	0.20630	0.2063
*	69	Chrysene-d12	240	23.850	23.873	(1.000)	106003	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.896	23.919	(1.002)	6827	0.26019	0.2602
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.958)	6022	0.15014	0.1501
*	134	Di-n-octylphthalate-d4	153	24.895	24.926	(1.000)	261171	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	26.869	26.691	(1.003)	232954	8.29542	8.295
*	77	Perylene-d12	264	26.799	26.822	(1.000)	81753	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.825	13.848	(1.137)	10619	0.19294	0.1929
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010508.D
Lab Smp Id: 22L0246-08
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	82439	0.87
27 Naphthalene-d8	307034	153517	614068	323875	5.49
42 Acenaphthene-d10	140557	70279	281114	122939	-12.53
59 Phenanthrene-d10	243620	121810	487240	192862	-20.83
69 Chrysene-d12	144852	72426	289704	106003	-26.82
134 Di-n-octylphthala	387178	193589	774356	261171	-32.54
77 Perylene-d12	106683	53342	213366	81753	-23.37

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.16	-0.19
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.12
77 Perylene-d12	26.82	26.32	27.32	26.80	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010508.D

Lab ID: 22L0246-08
nt10.i, ABN.m, 05-JAN-2023 17:52

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.003	0.995	0.0075	Benzo(a)pyrene

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

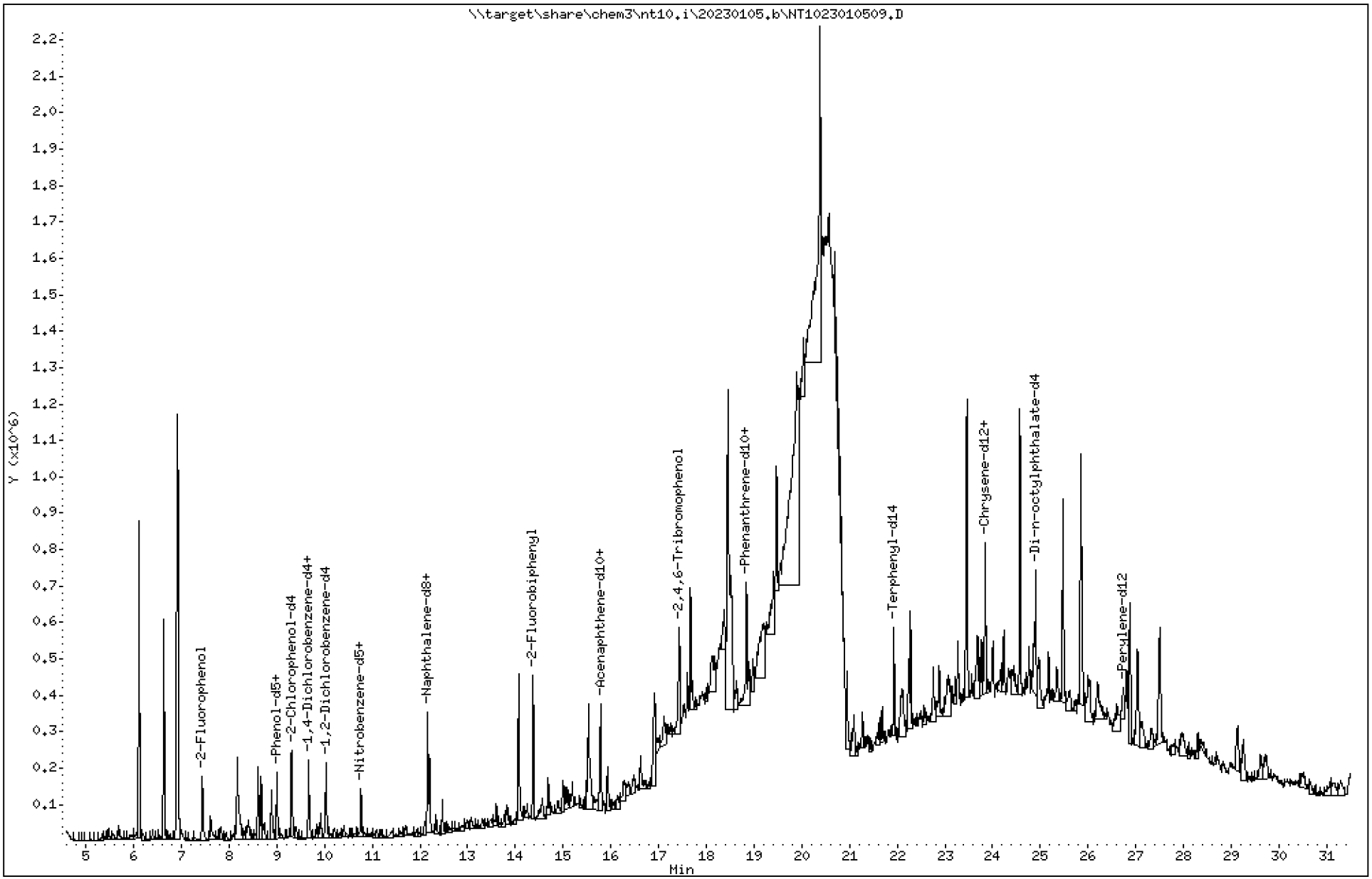
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-09 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010509.D
% Solids:	59.23	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 18:31
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	16.89 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	499.80	446	89.3	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D
Date : 05-JAN-2023 18:31
Client ID:
Sample Info: 22L0246-09

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

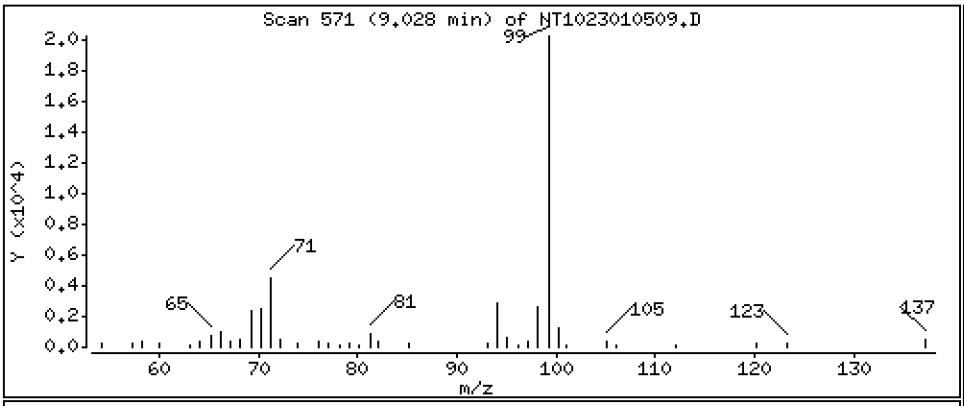
Operator: VTS

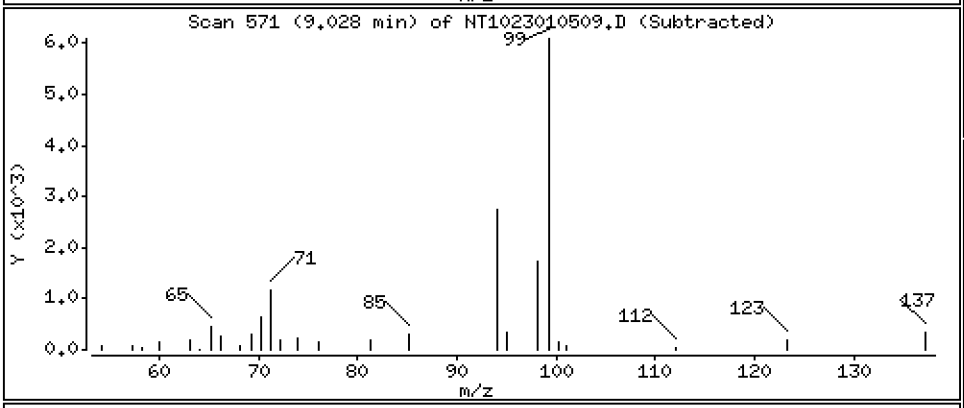
Column phase: ZB-5msi

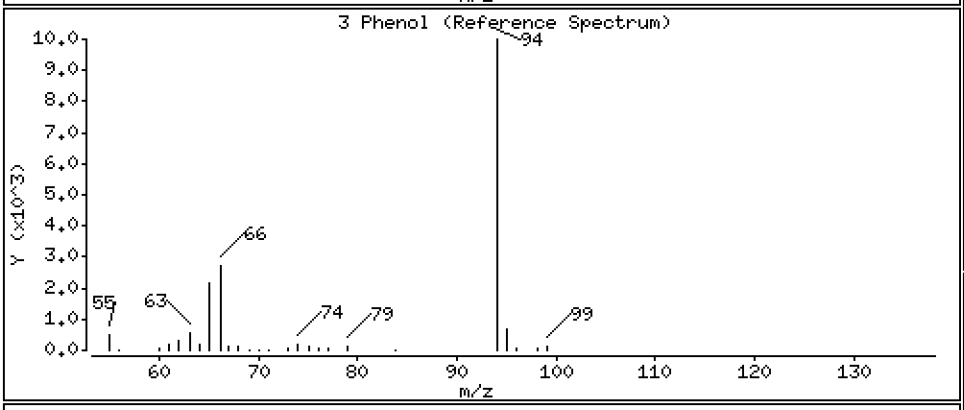
Column diameter: 0.25

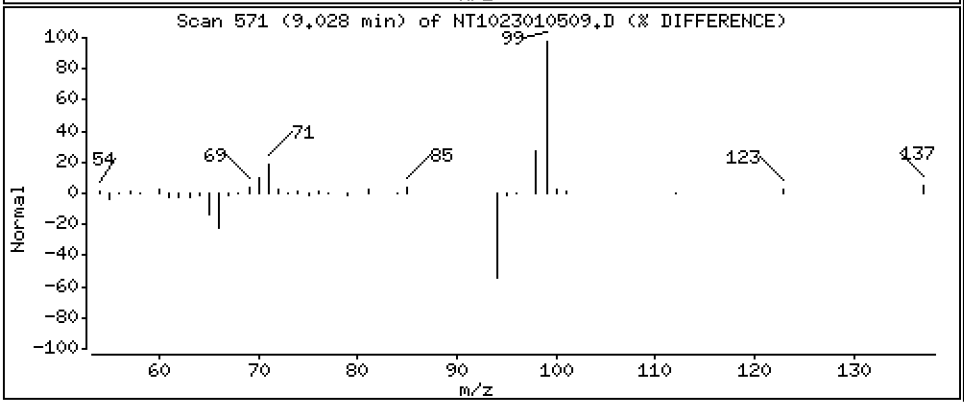
3 Phenol

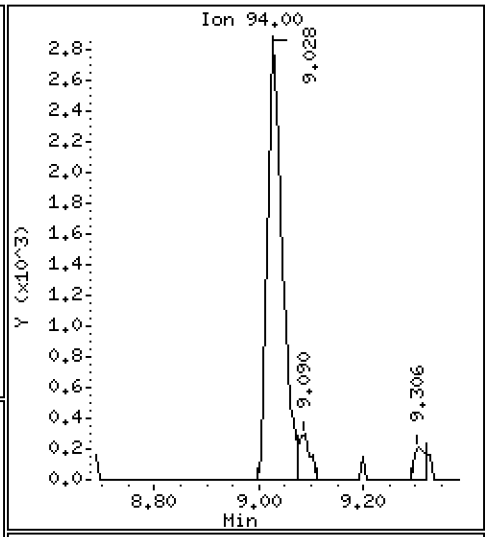
Concentration: 0.1871 ug/mL

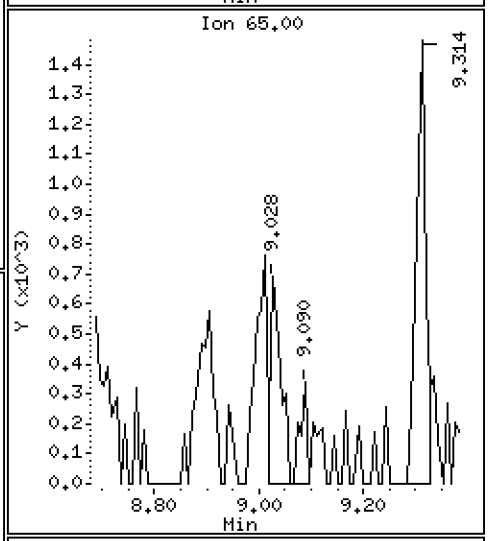


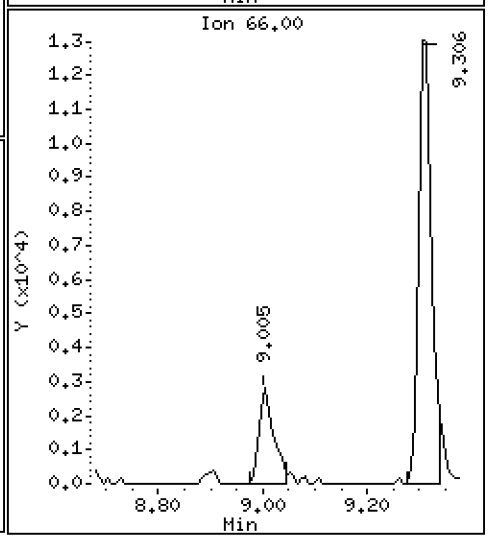












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

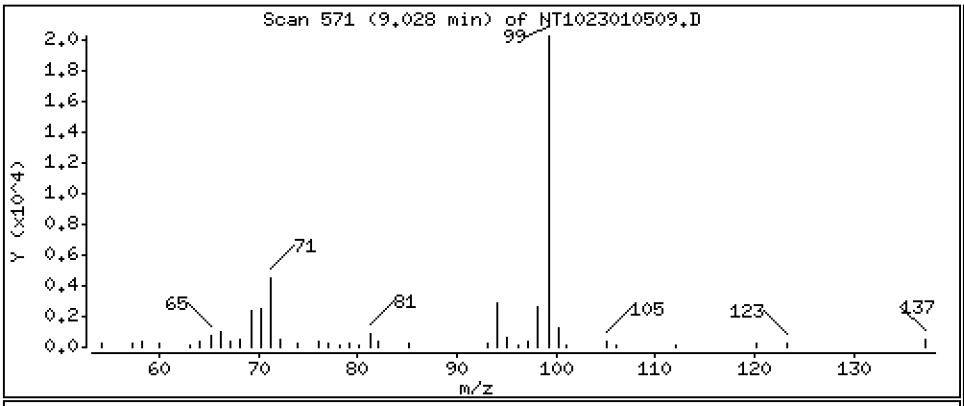
Operator: VTS

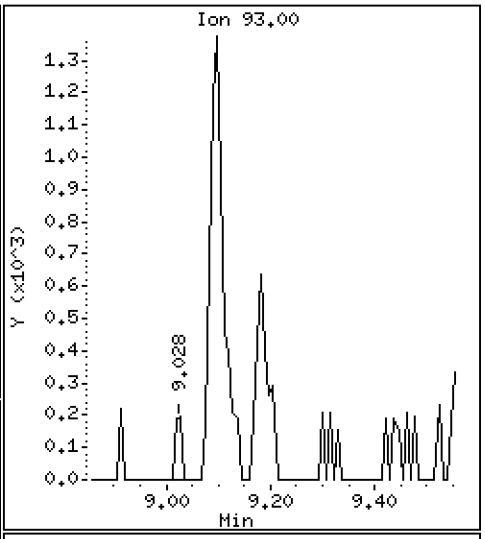
Column phase: ZB-5msi

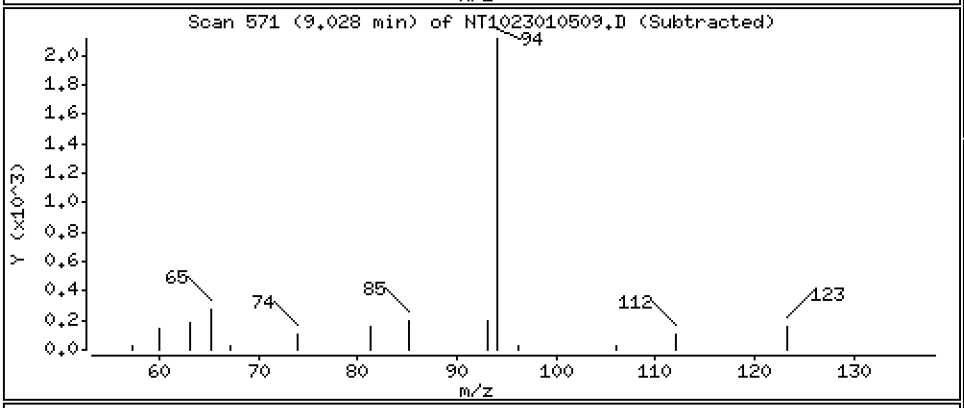
Column diameter: 0.25

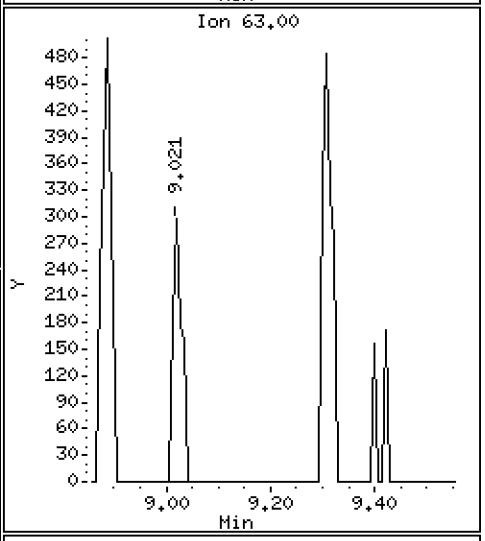
4 Bis(2-Chloroethyl)ether

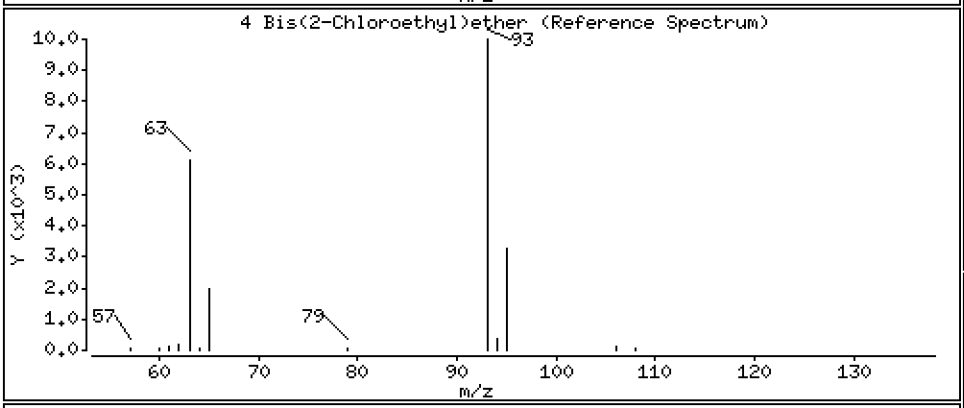
Concentration: 0.006946 ug/mL

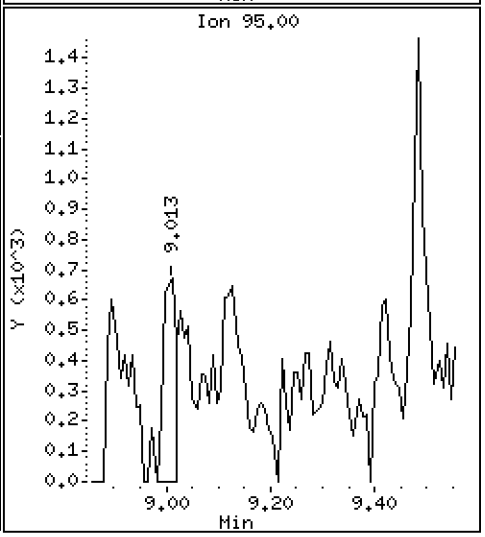


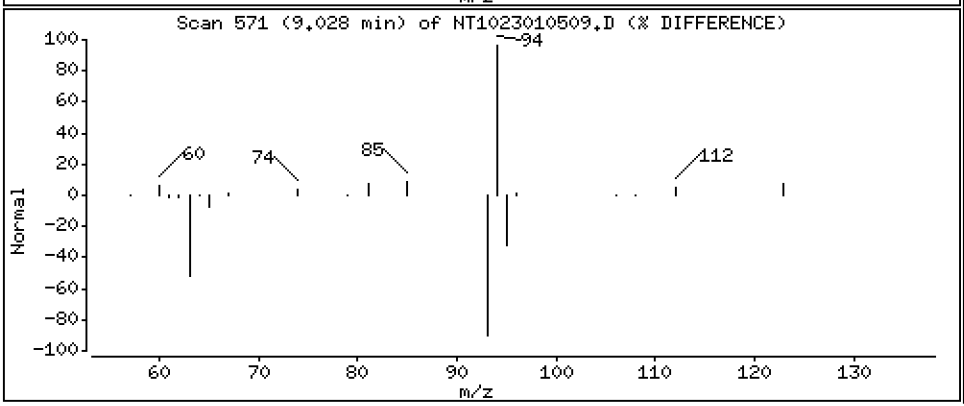












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

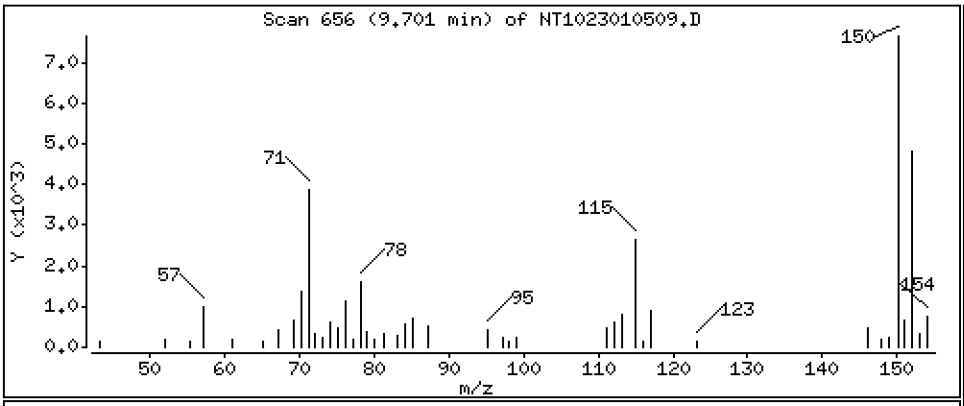
Operator: VTS

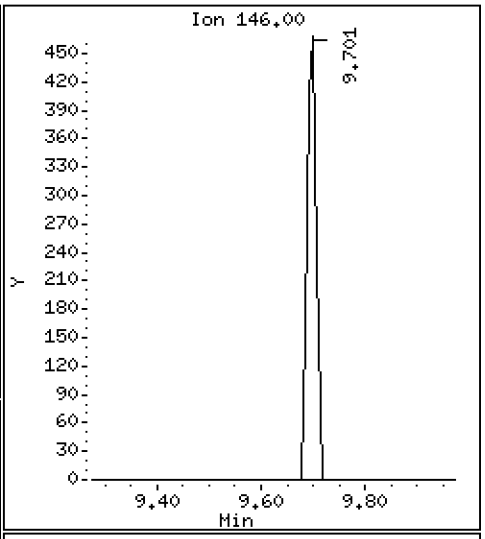
Column phase: ZB-5msi

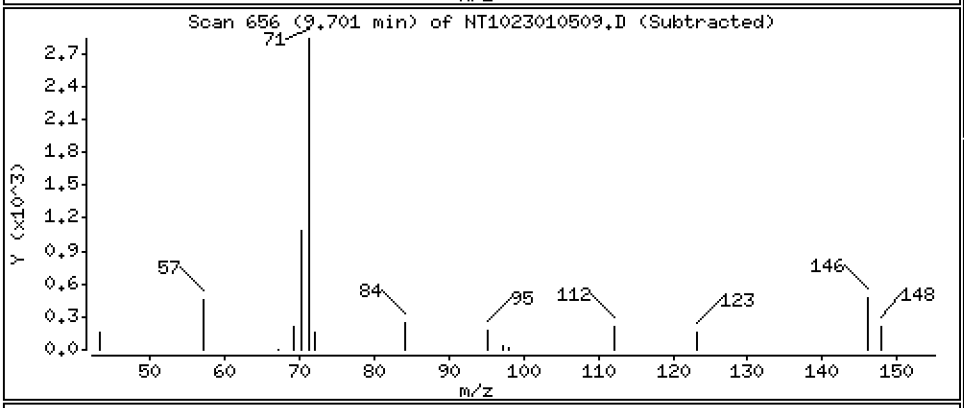
Column diameter: 0.25

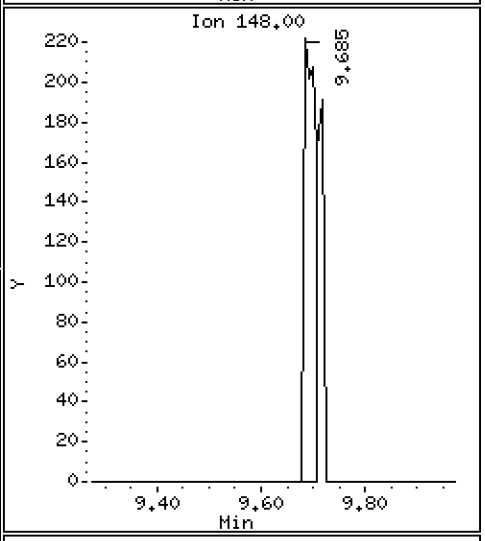
7 1,3-Dichlorobenzene

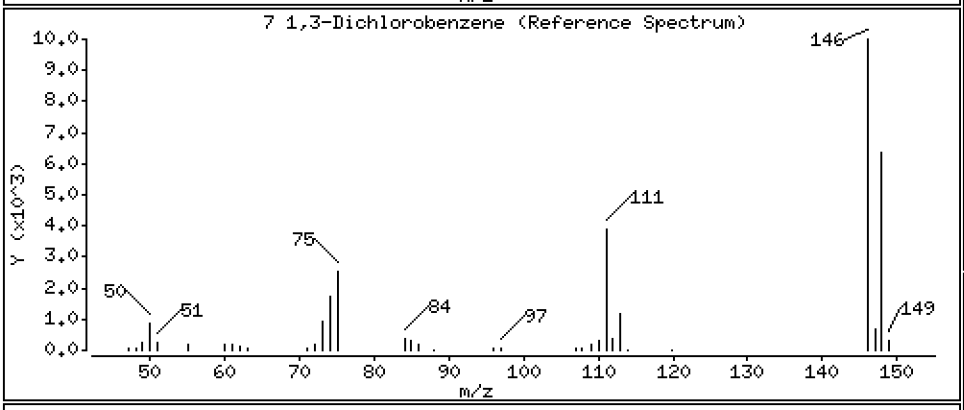
Concentration: 0.01934 ug/mL

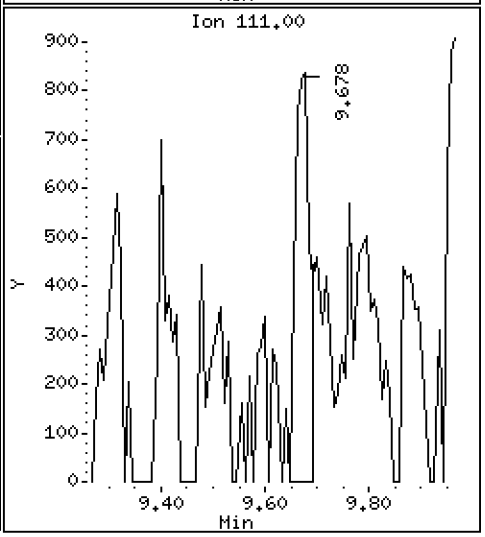


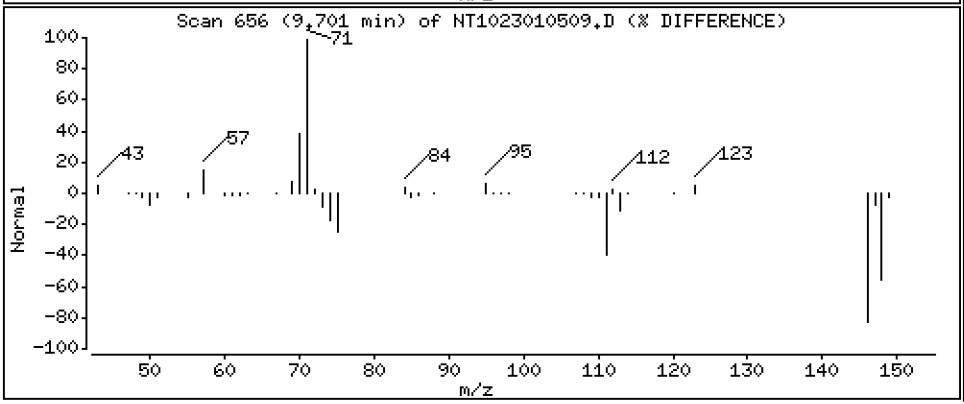












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

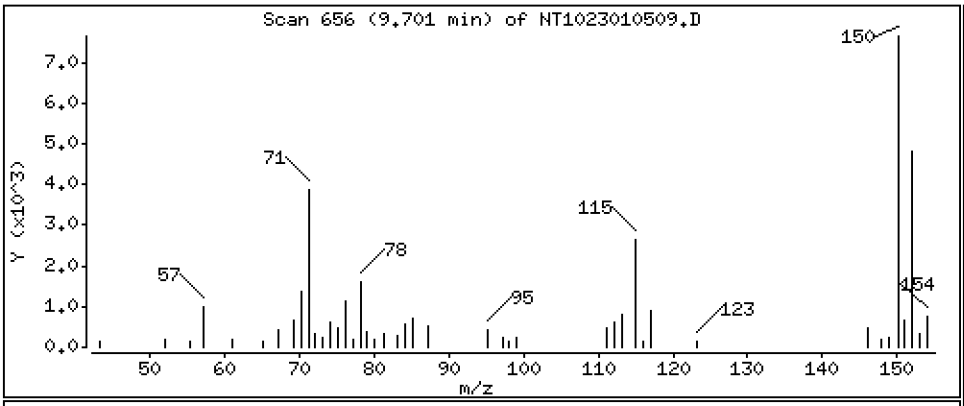
Operator: VTS

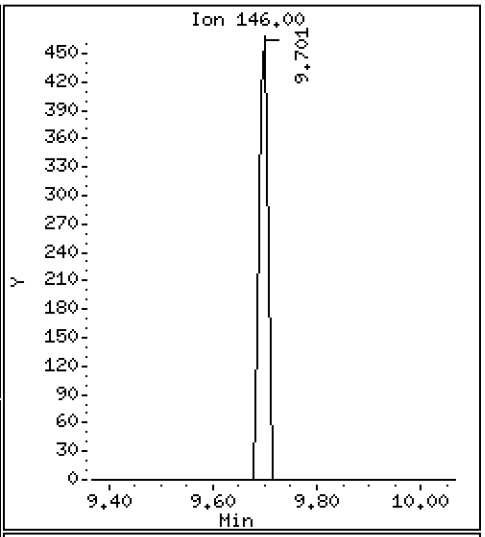
Column phase: ZB-5msi

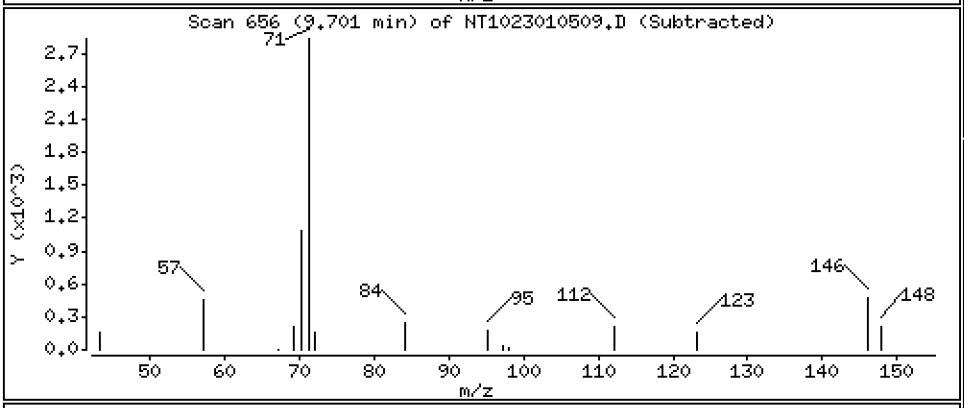
Column diameter: 0.25

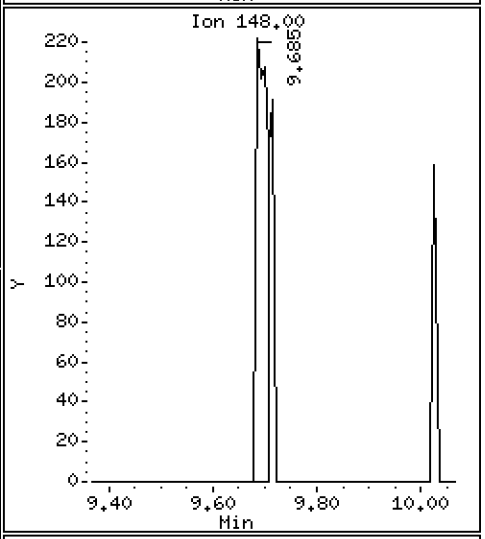
9 1,4-Dichlorobenzene

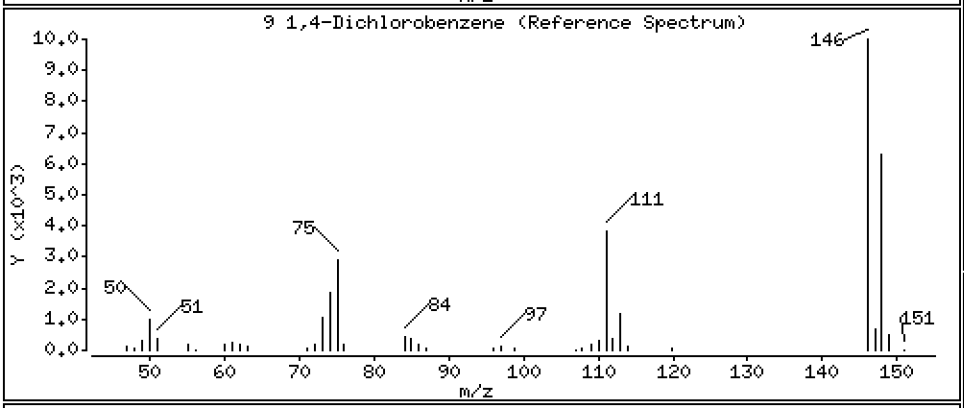
Concentration: 0.02249 ug/mL

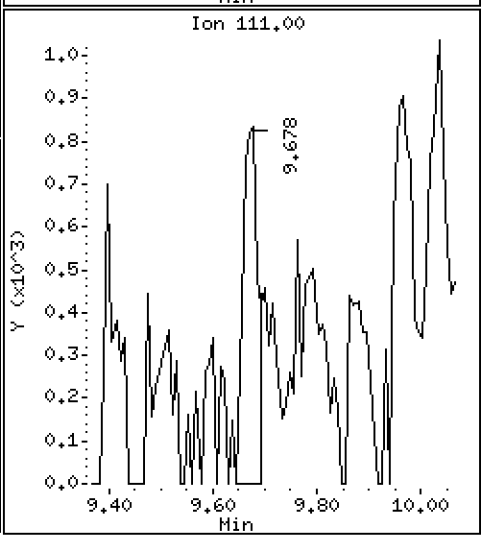


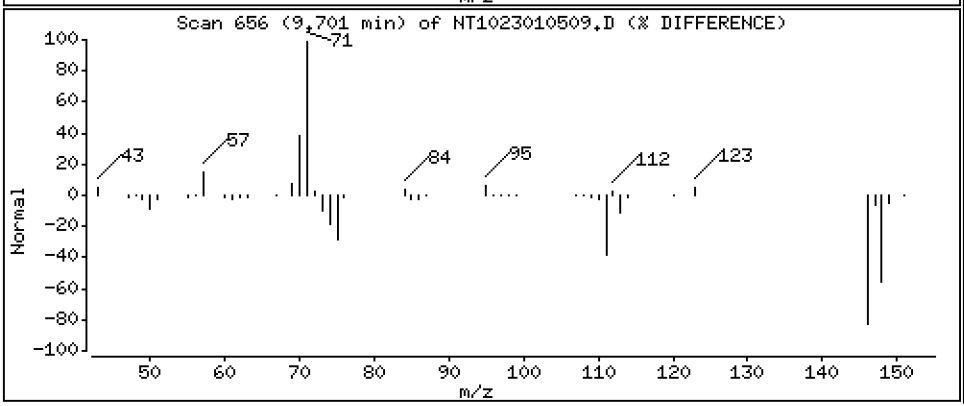












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

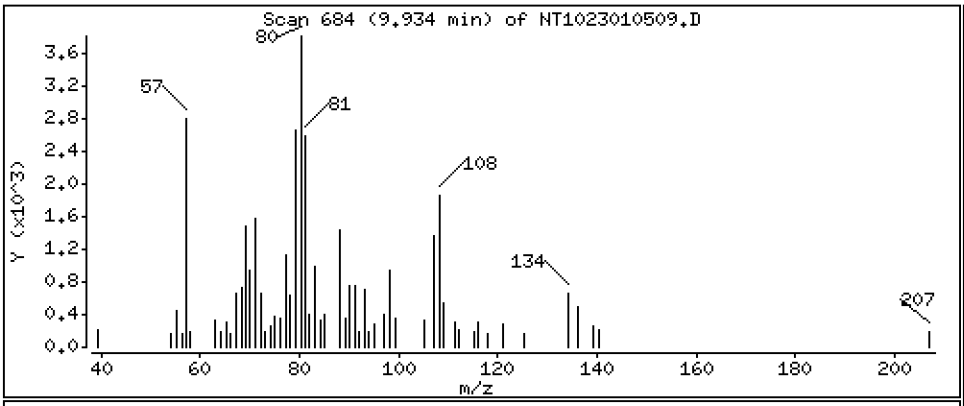
Operator: VTS

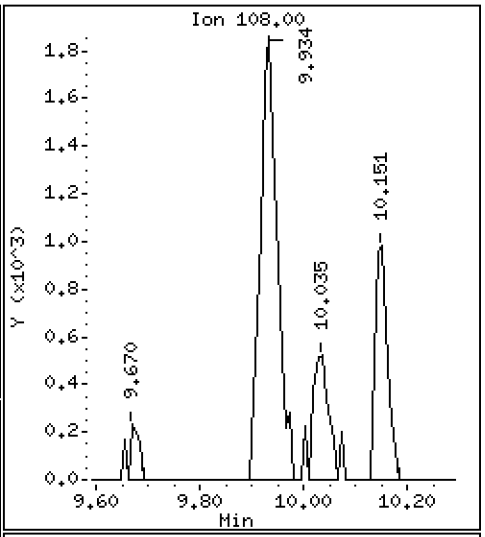
Column phase: ZB-5msi

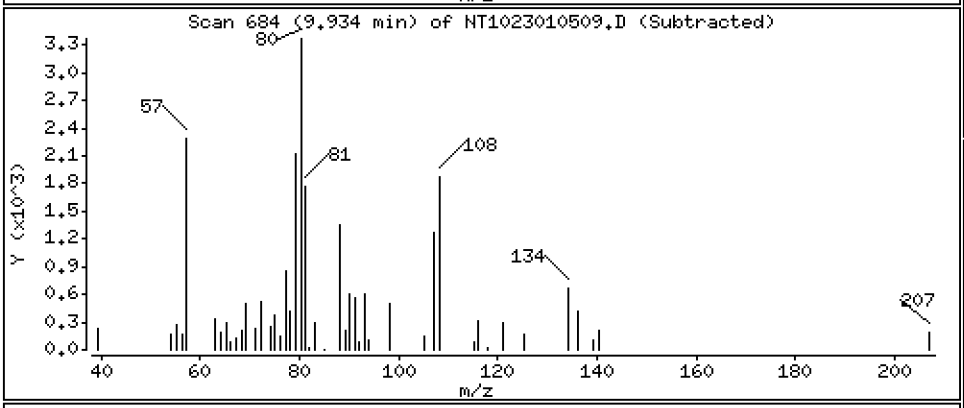
Column diameter: 0.25

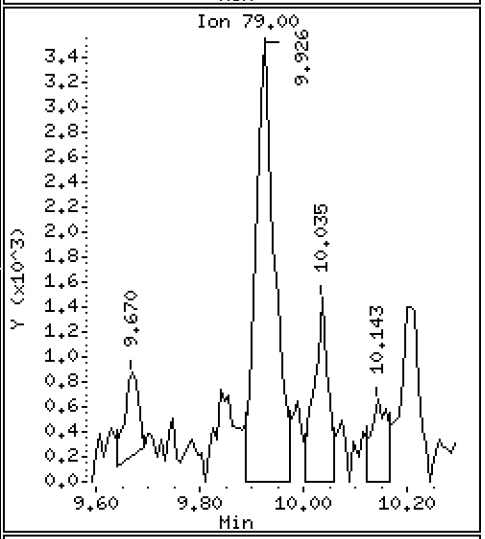
11 Benzyl alcohol

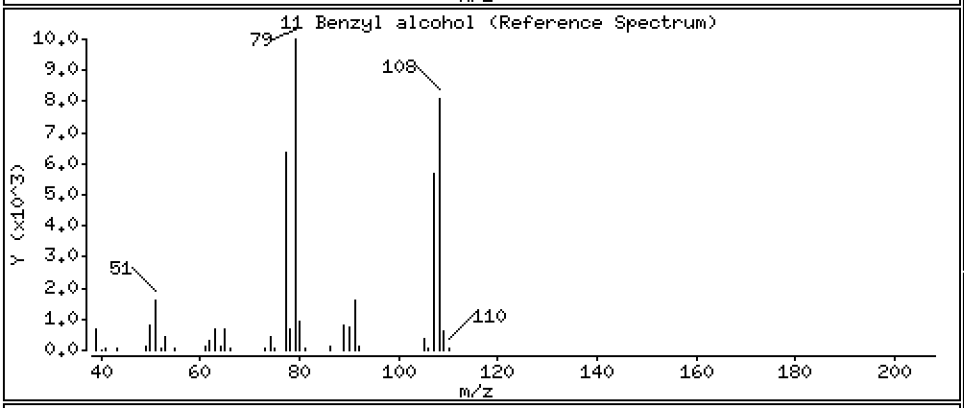
Concentration: 0.3337 ug/mL

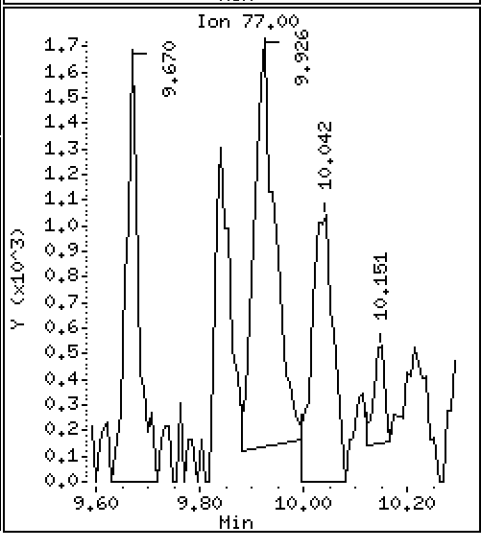


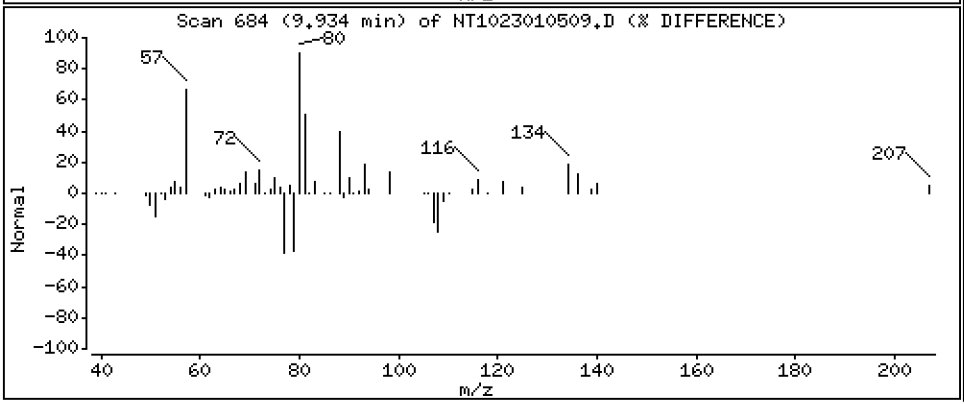












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

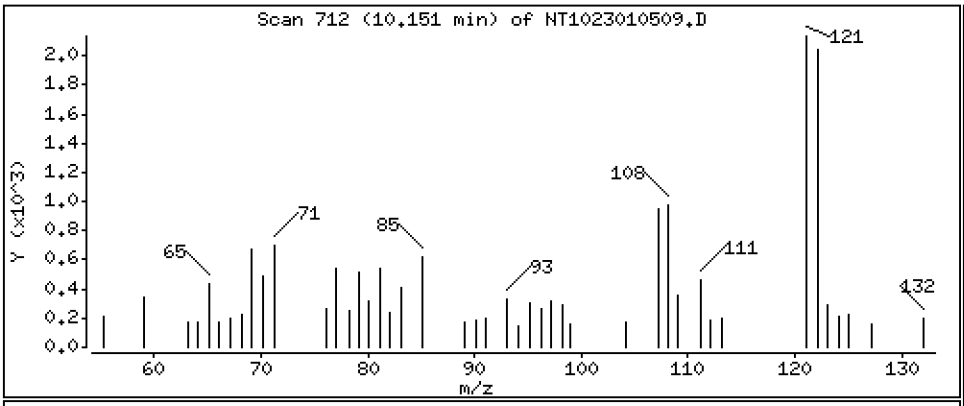
Operator: VTS

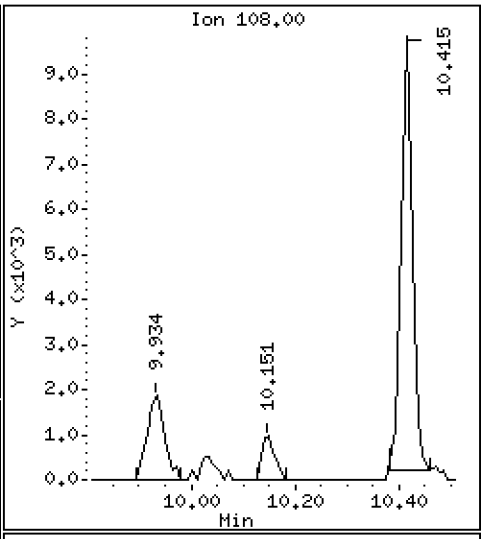
Column phase: ZB-5msi

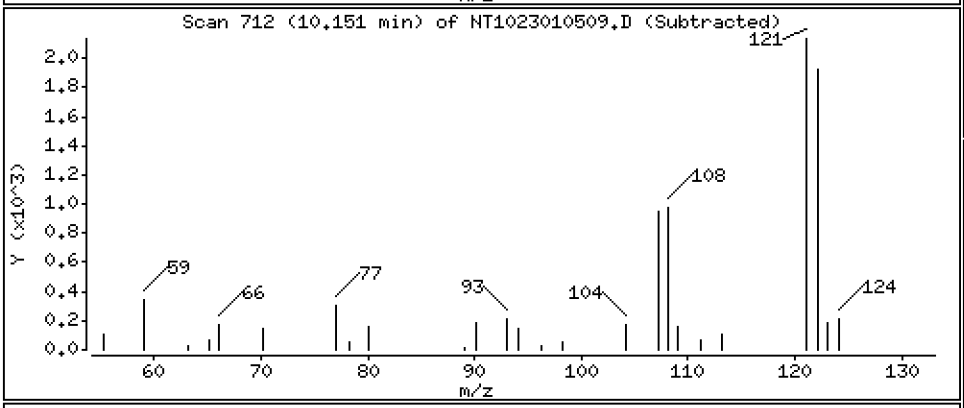
Column diameter: 0.25

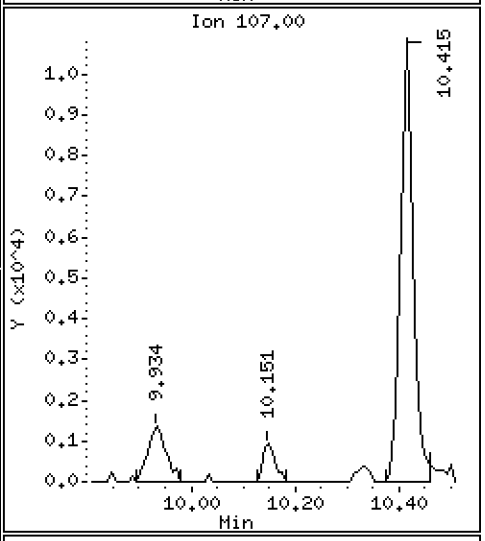
13 2-Methylphenol

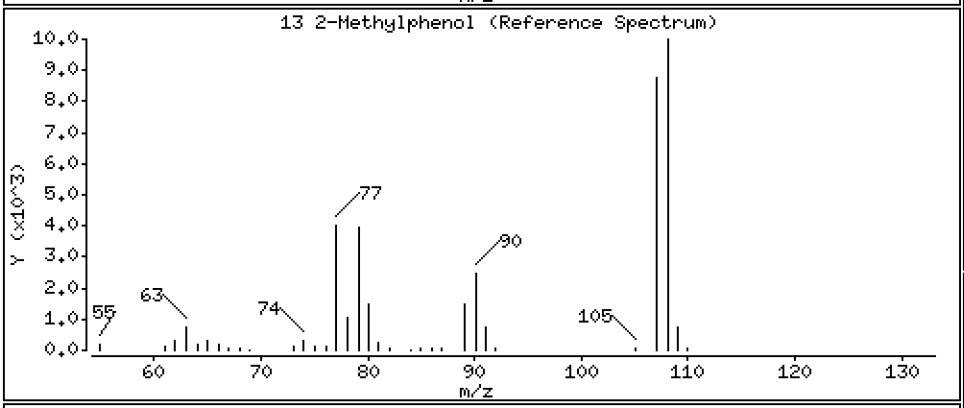
Concentration: 0.08632 ug/mL

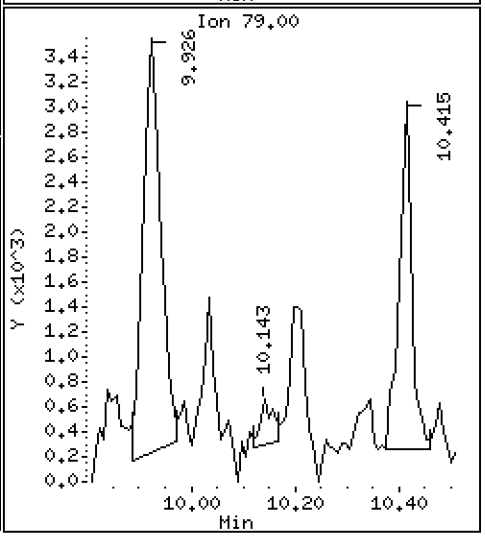


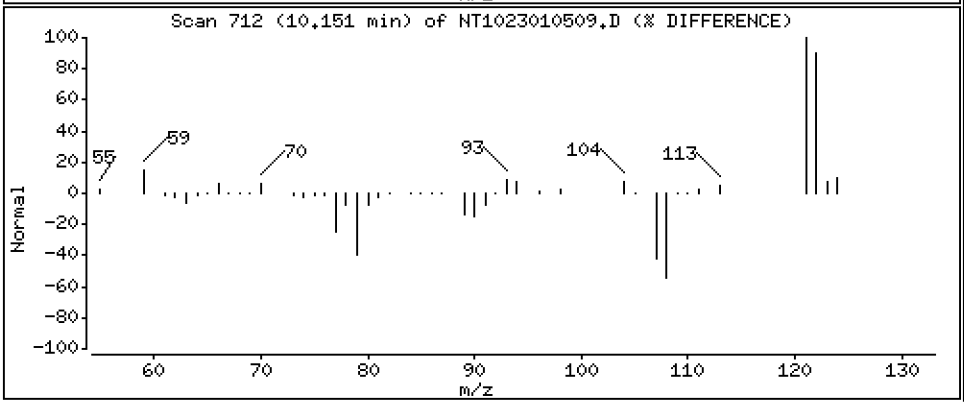












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

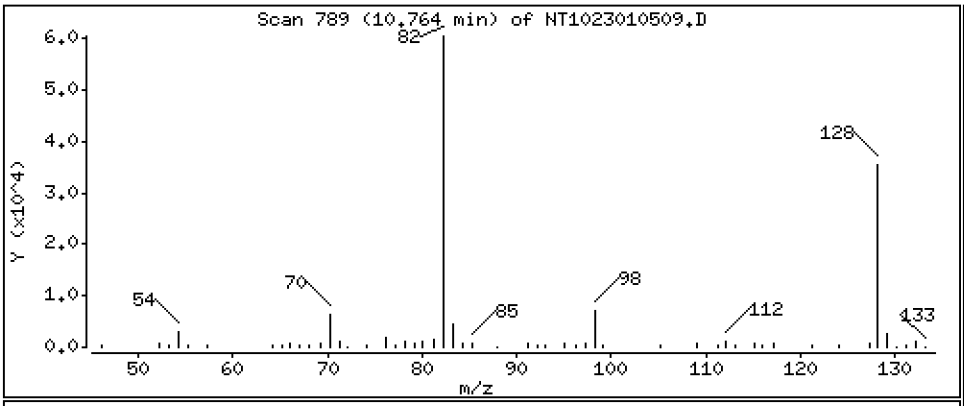
Operator: VTS

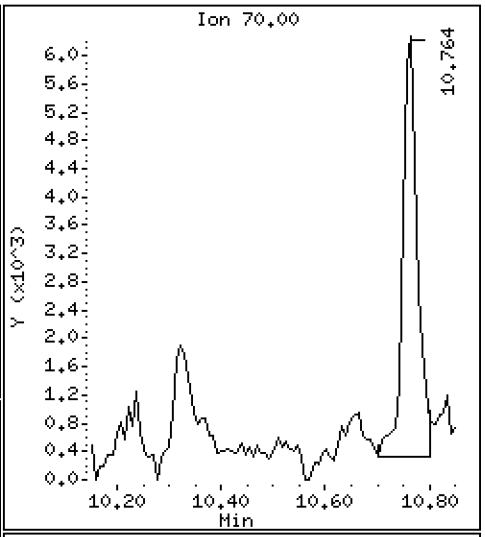
Column phase: ZB-5msi

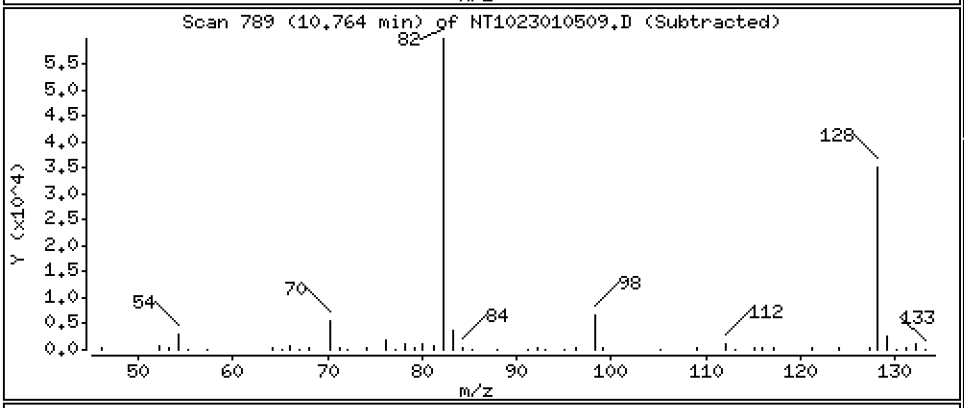
Column diameter: 0.25

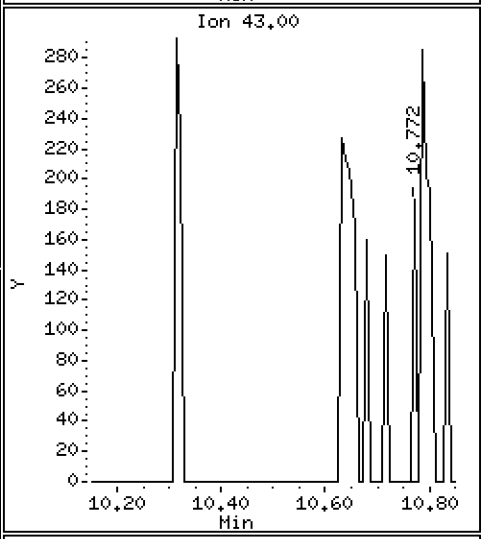
16 N-Nitroso-di-n-propylamine

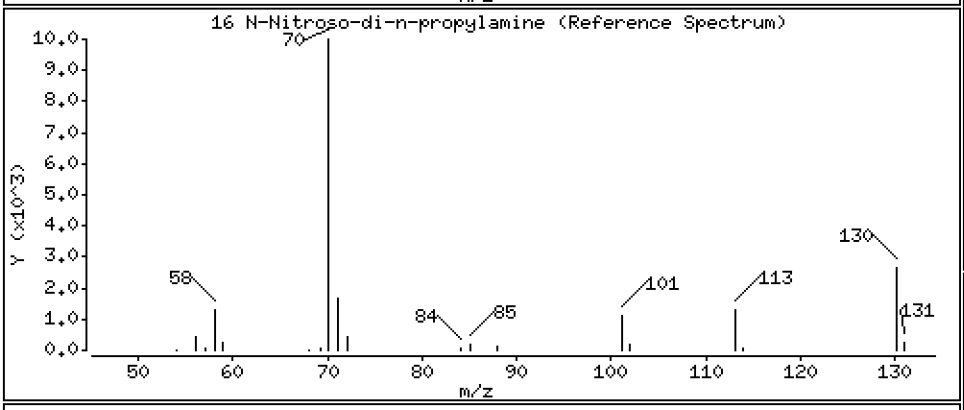
Concentration: 1.166 ug/mL

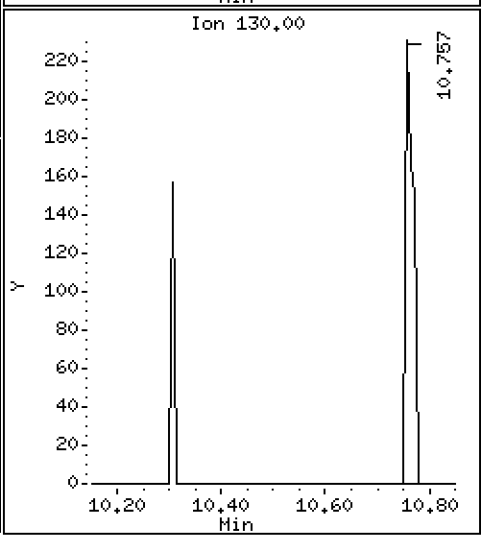


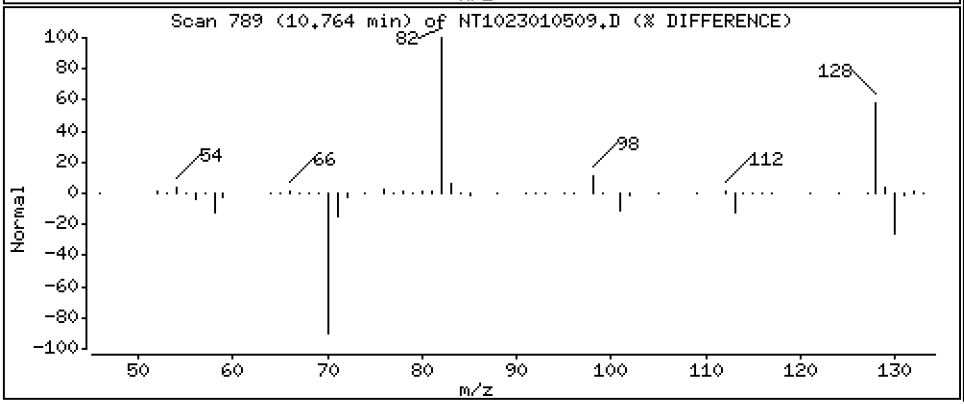












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

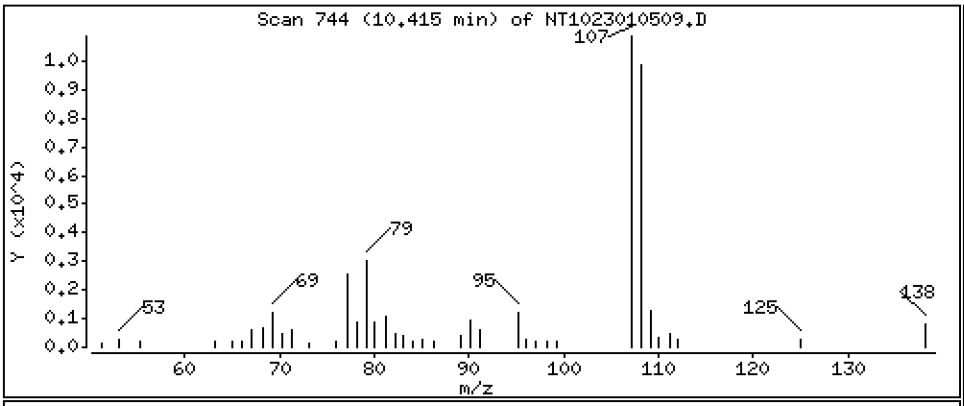
Operator: VTS

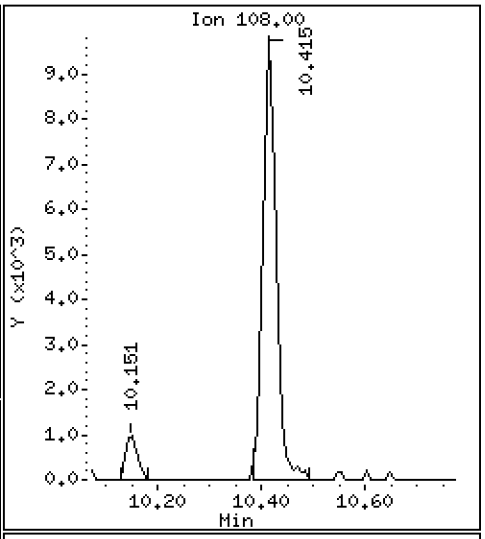
Column phase: ZB-5msi

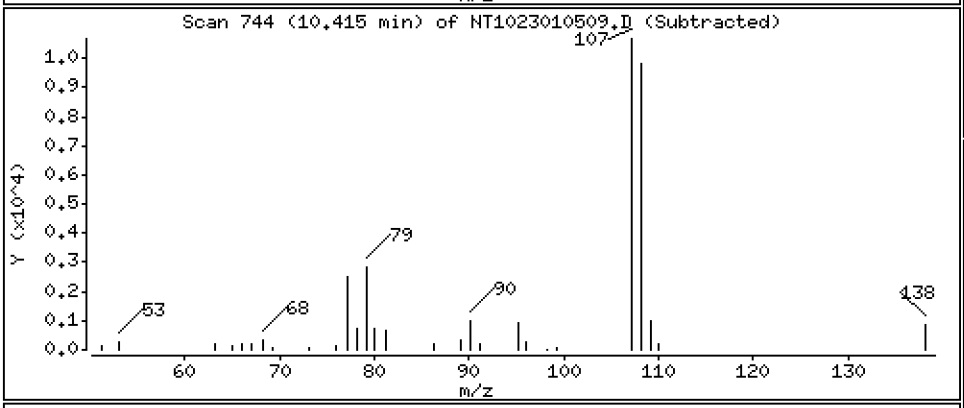
Column diameter: 0.25

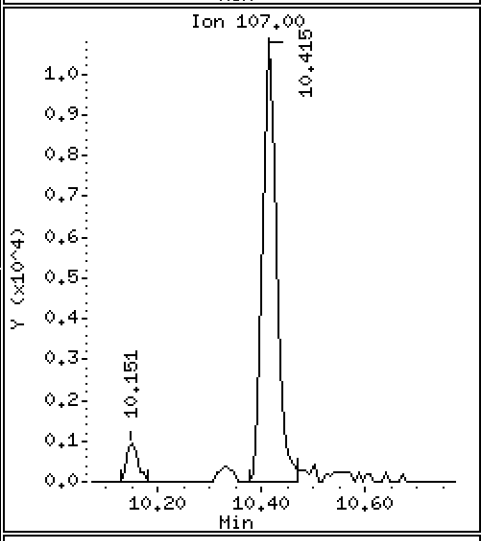
15 4-Methylphenol

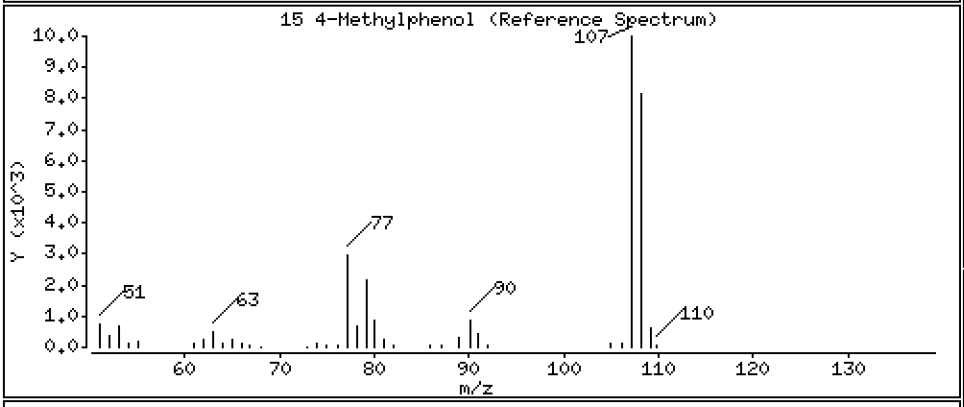
Concentration: 1.003 ug/mL

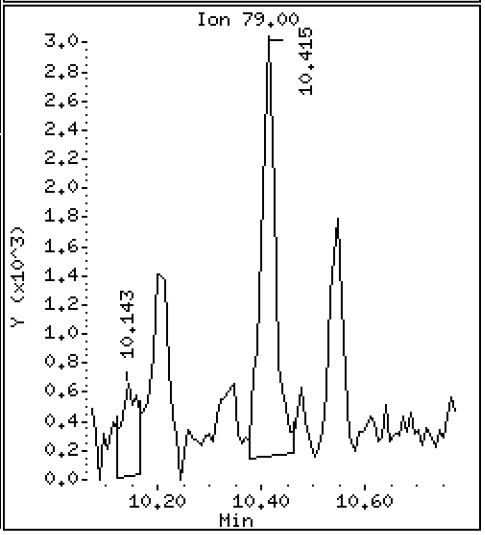


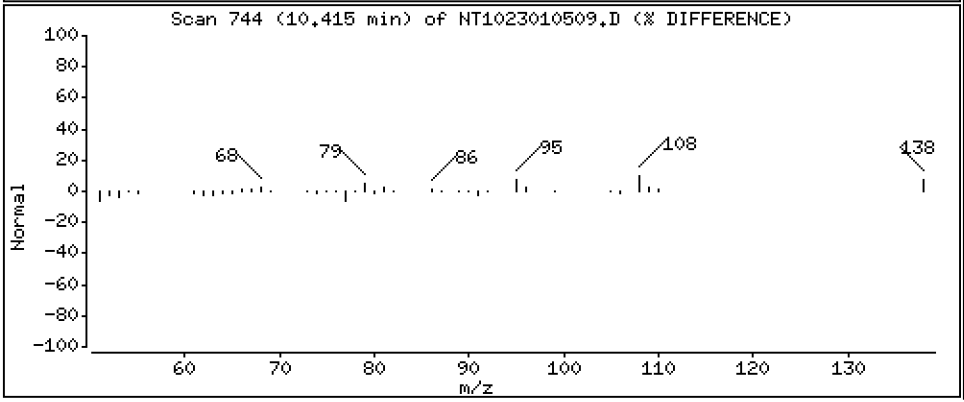












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

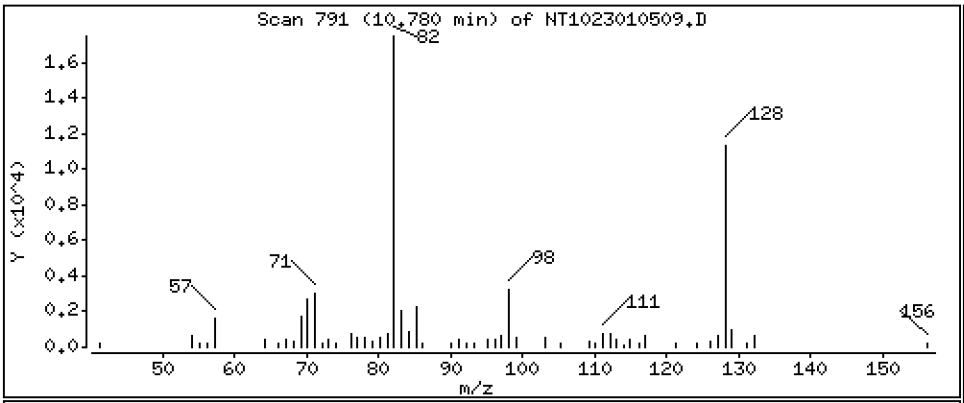
Operator: VTS

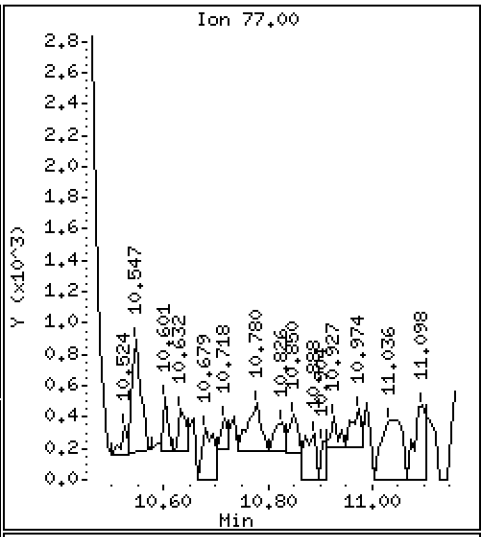
Column phase: ZB-5msi

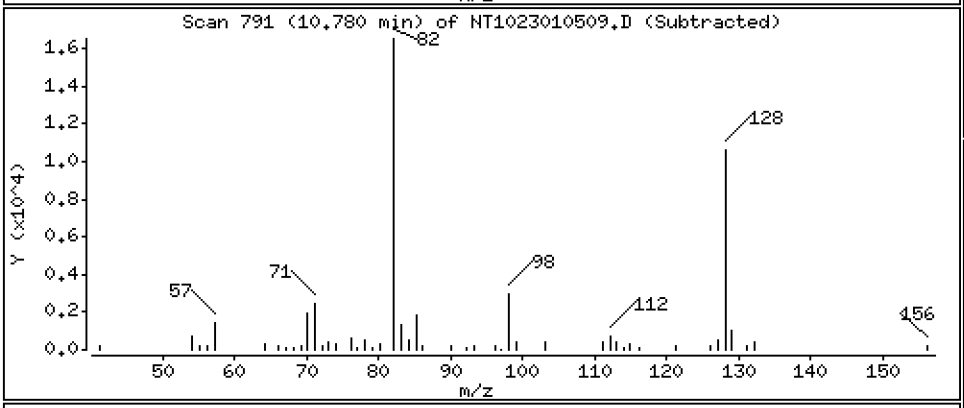
Column diameter: 0.25

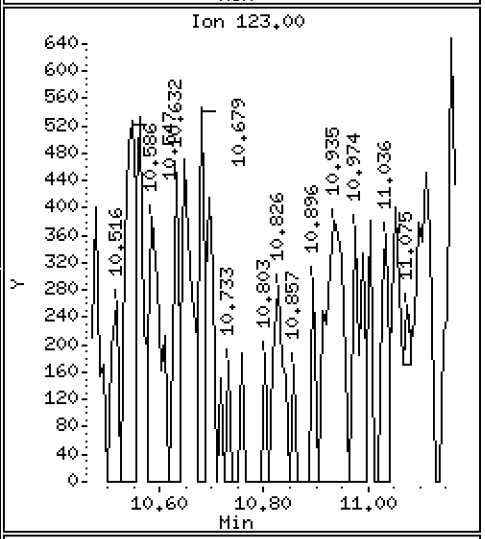
19 Nitrobenzene

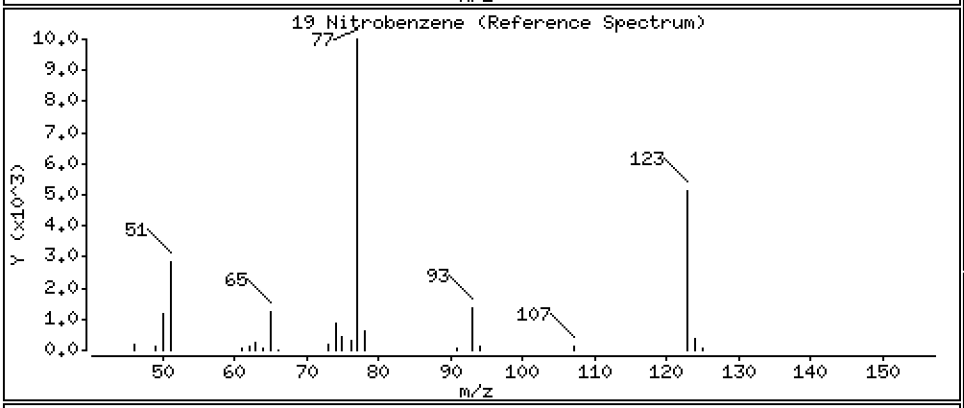
Concentration: 0.03229 ug/mL

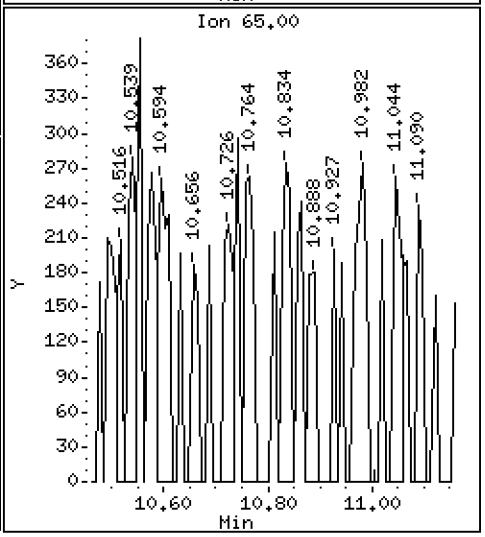


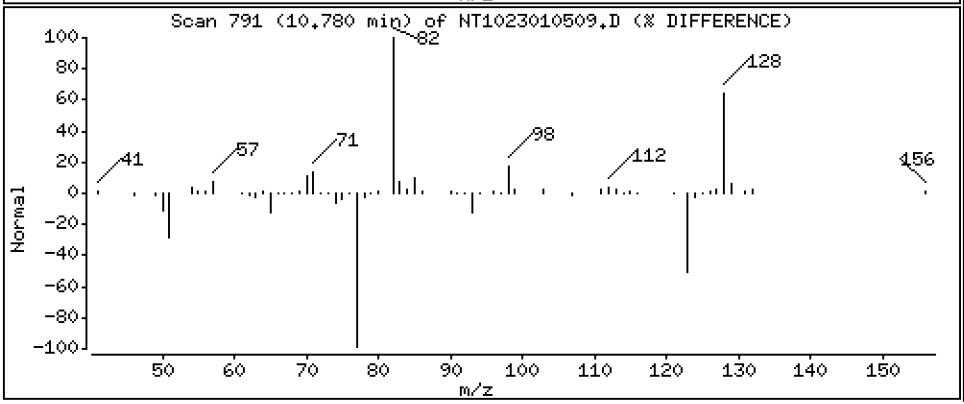












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

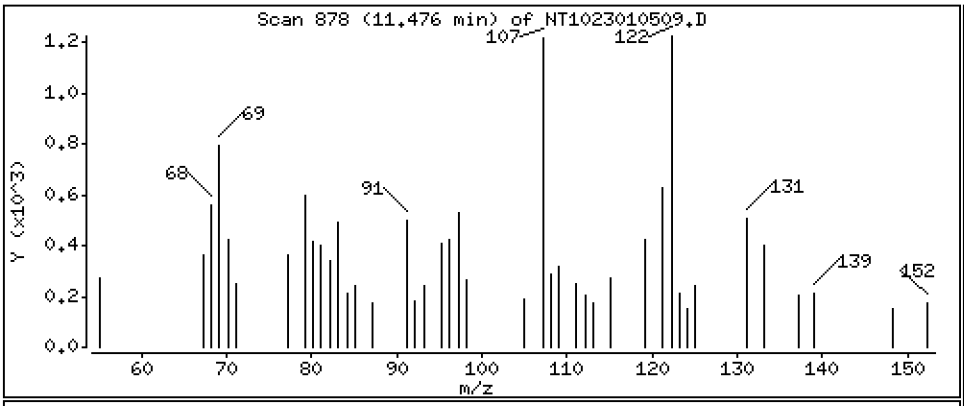
Operator: VTS

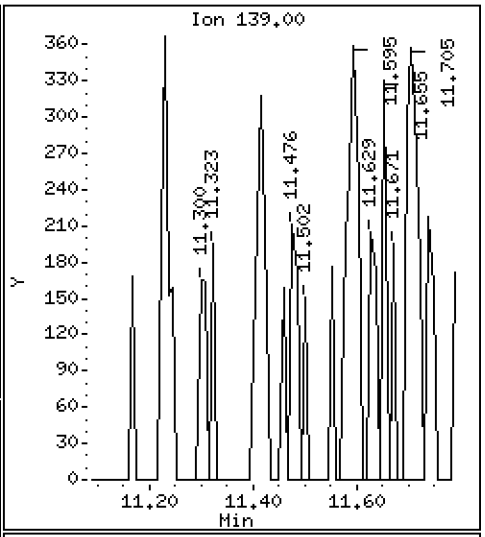
Column phase: ZB-5msi

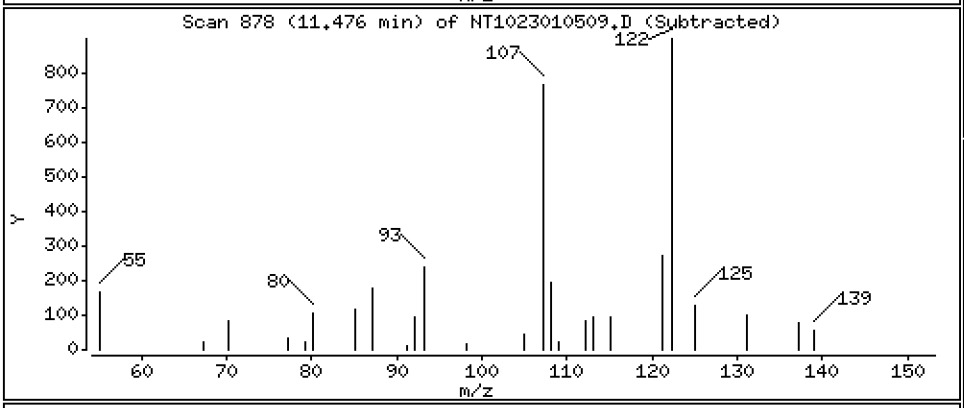
Column diameter: 0.25

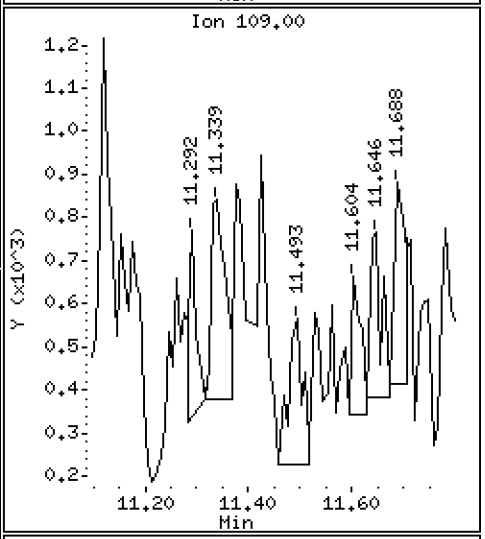
21 2-Nitrophenol

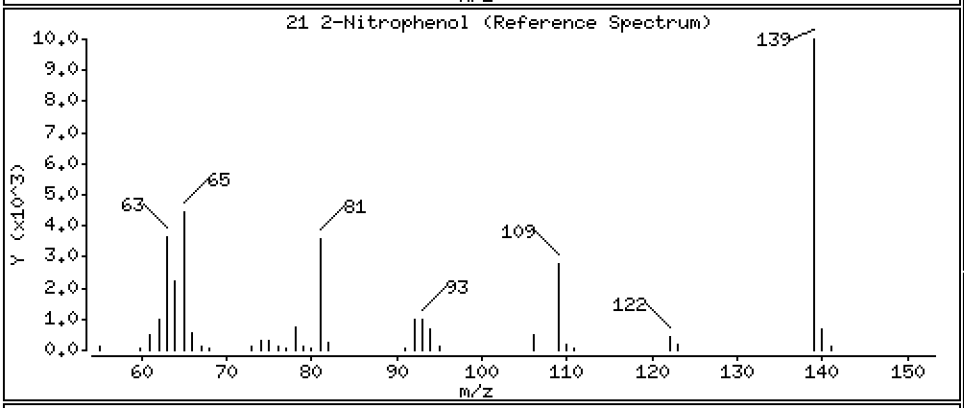
Concentration: 0.01164 ug/mL

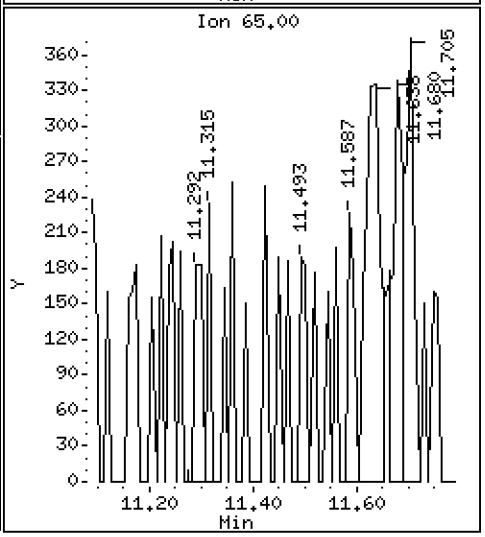


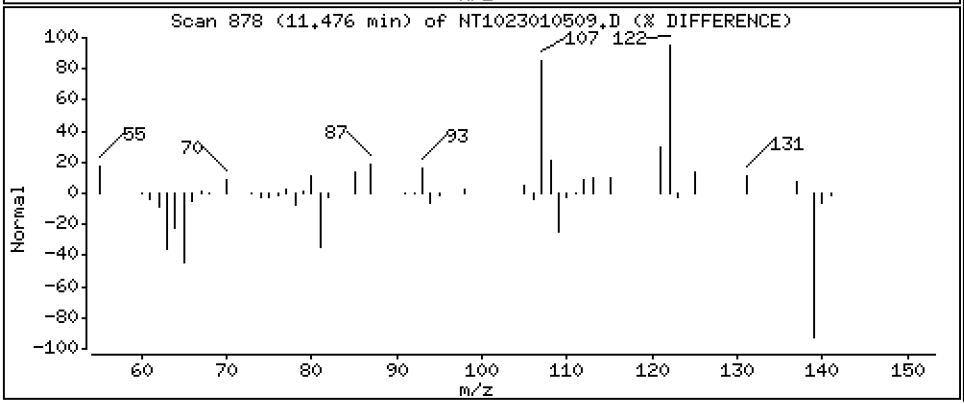












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

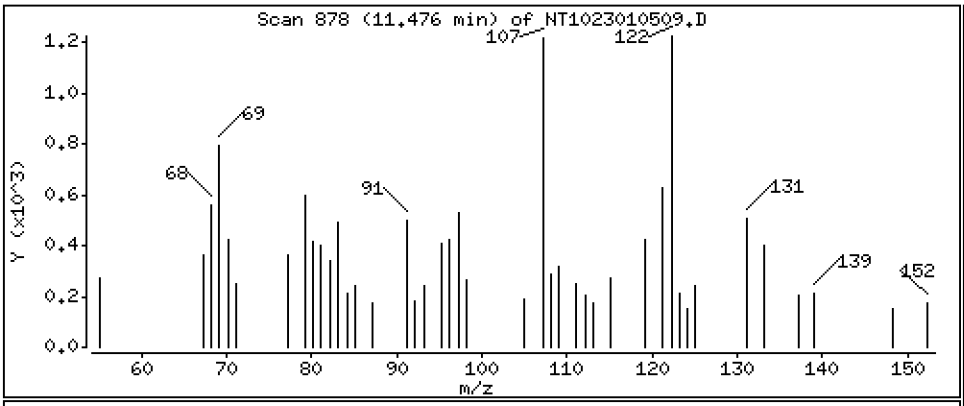
Operator: VTS

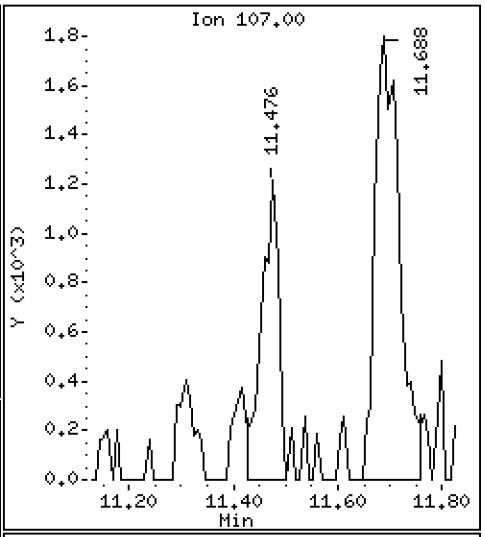
Column phase: ZB-5msi

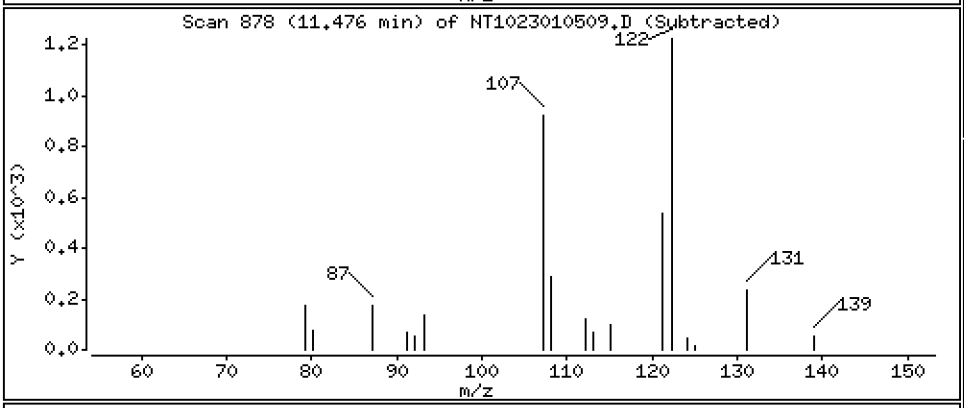
Column diameter: 0.25

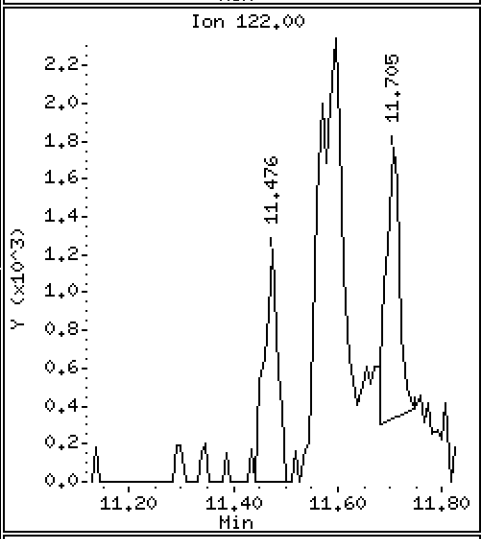
22 2,4-Dimethylphenol

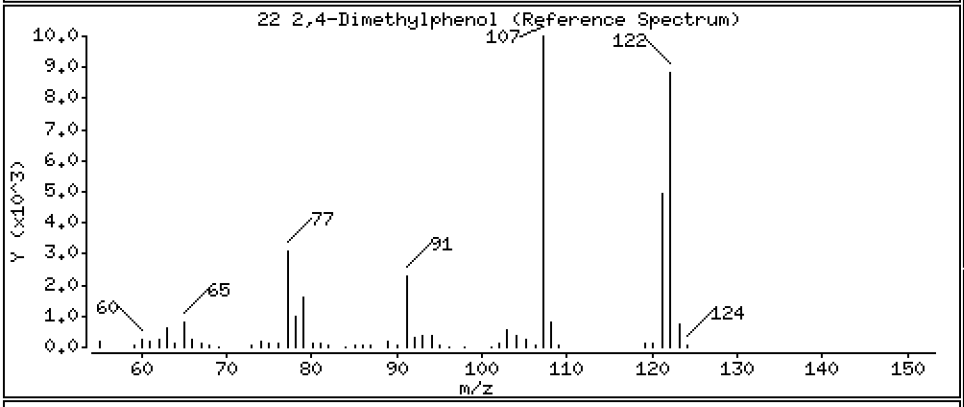
Concentration: 0.1155 ug/mL

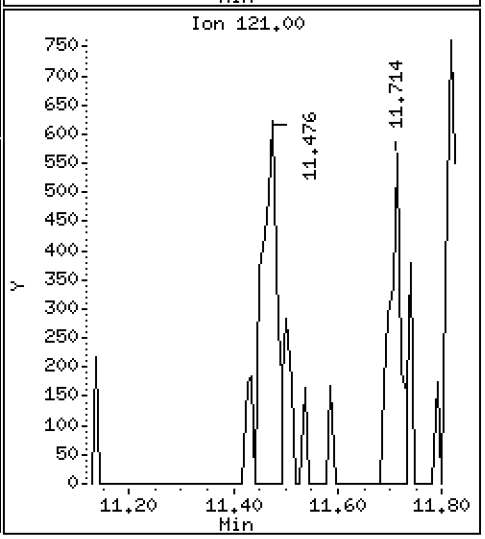


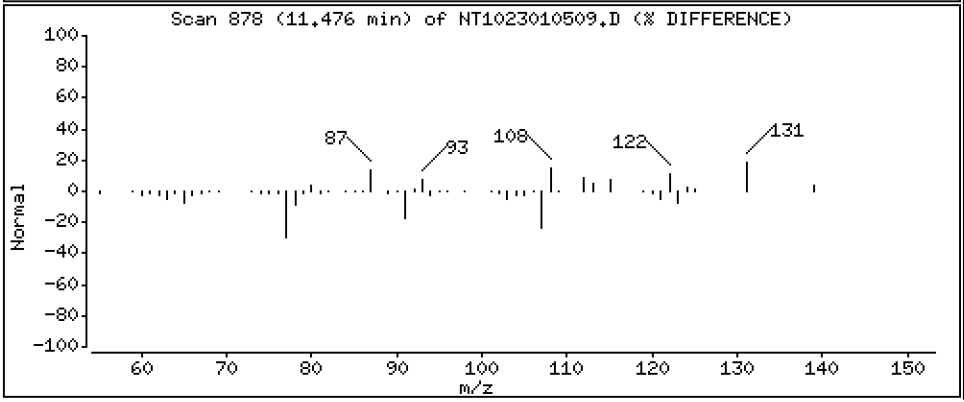












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

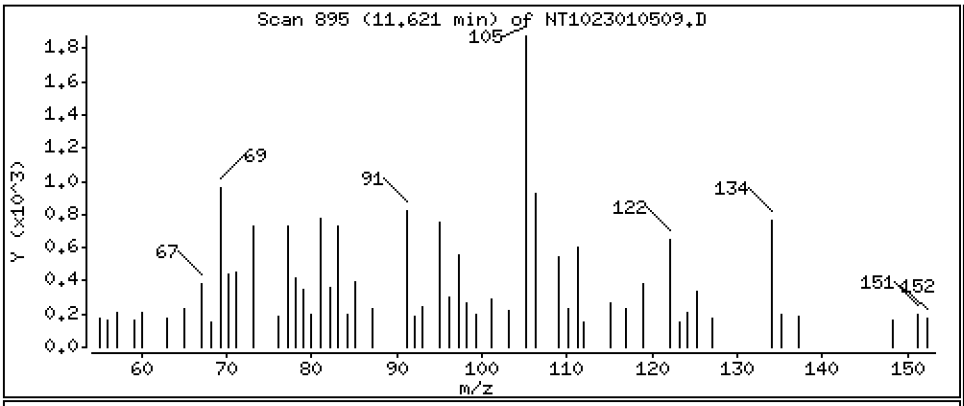
Operator: VTS

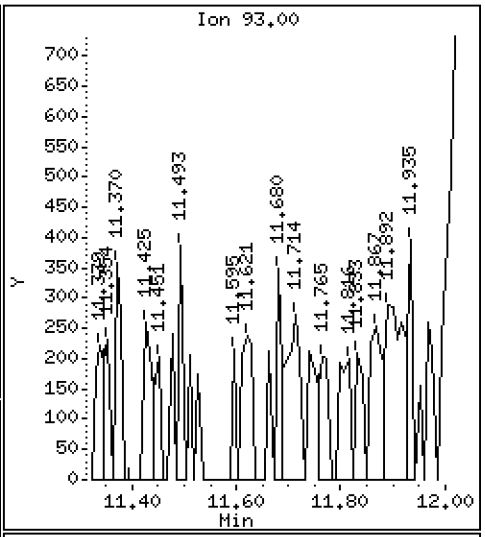
Column phase: ZB-5msi

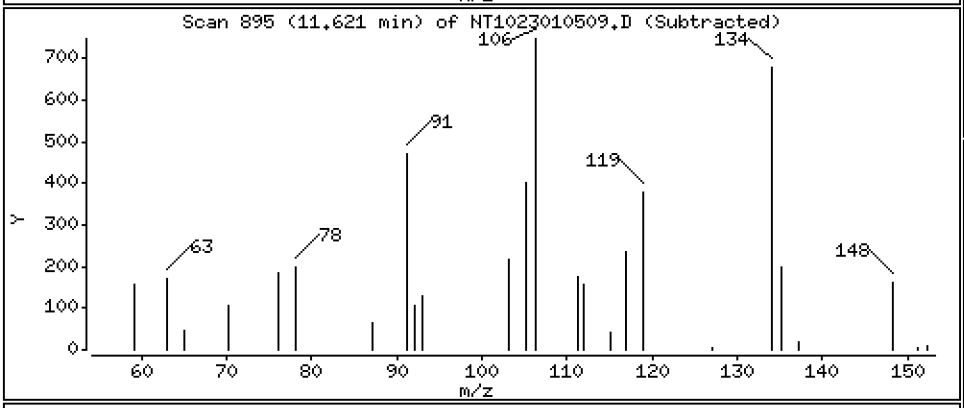
Column diameter: 0.25

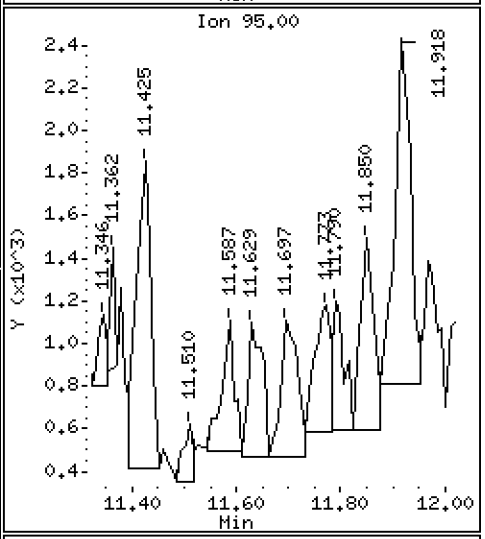
23 Bis(2-Chloroethoxy)methane

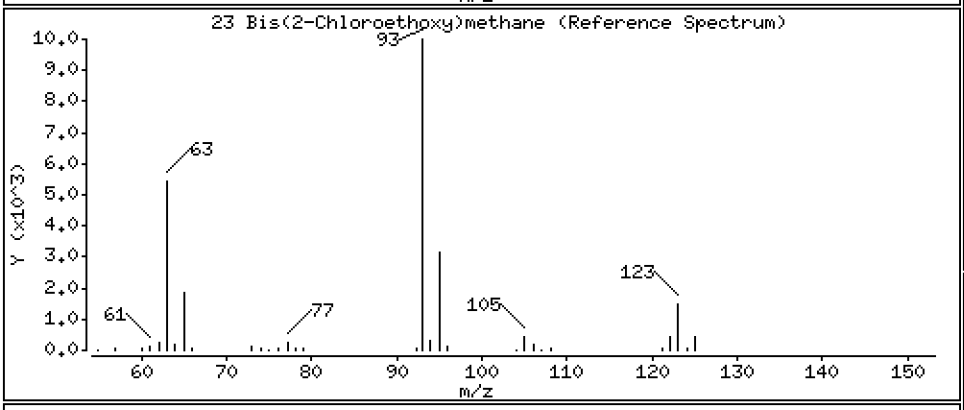
Concentration: 0.01632 ug/mL

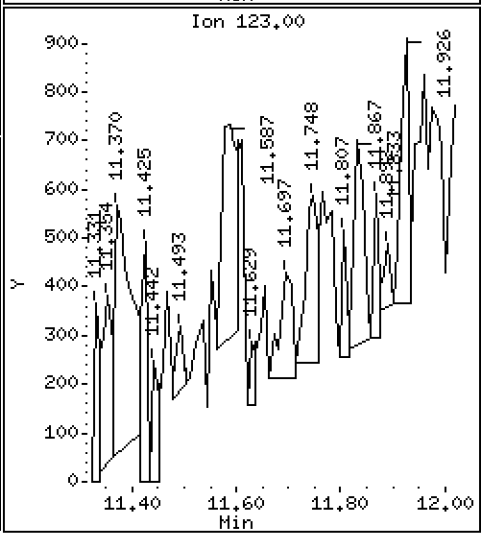


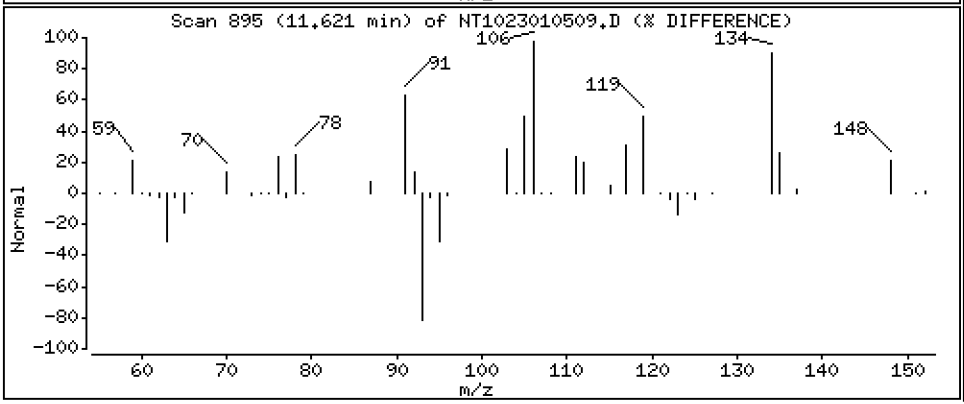












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

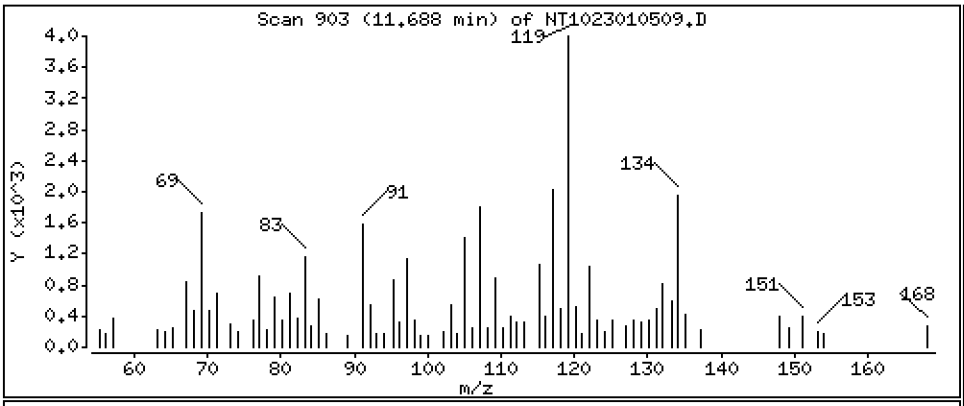
Operator: VTS

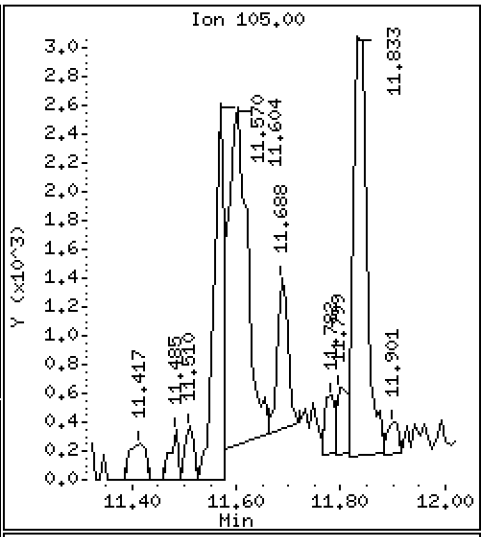
Column phase: ZB-5msi

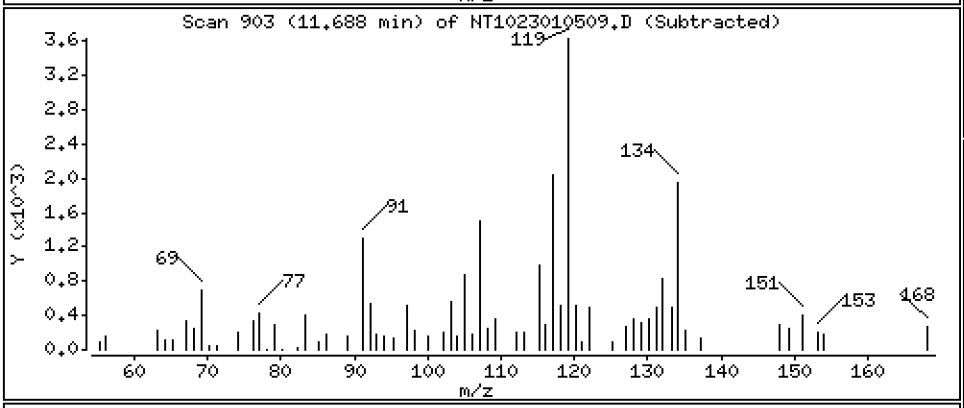
Column diameter: 0.25

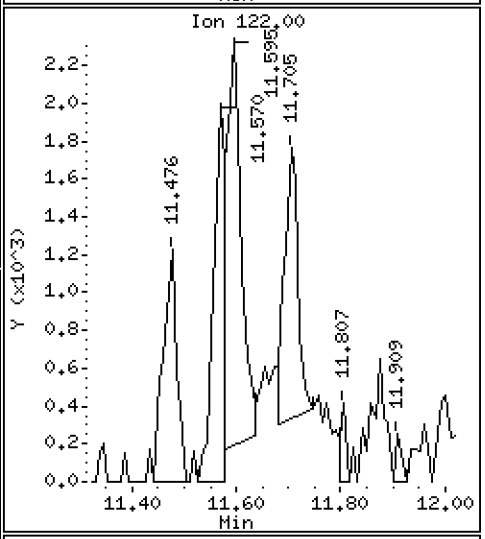
24 Benzoic acid

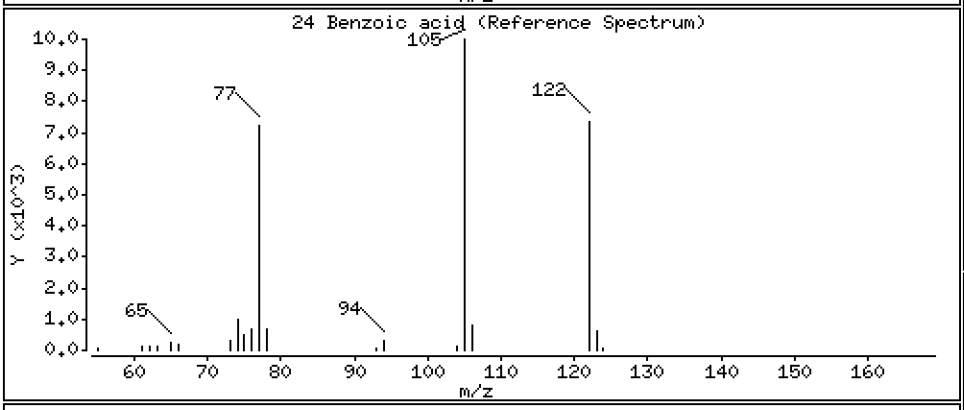
Concentration: 0.1609 ug/mL

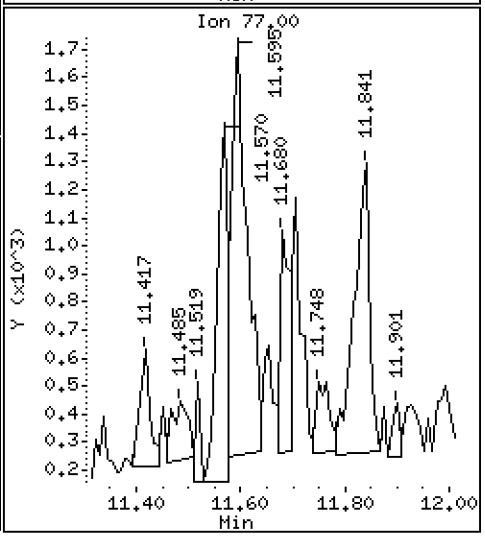


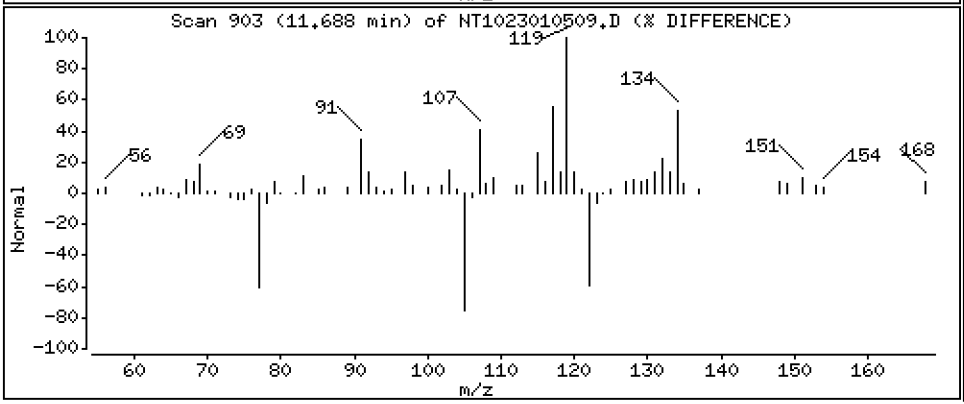












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

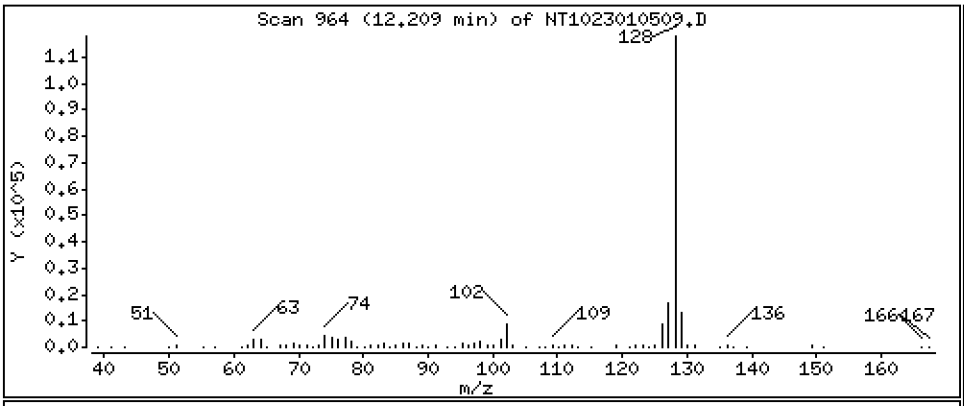
Operator: VTS

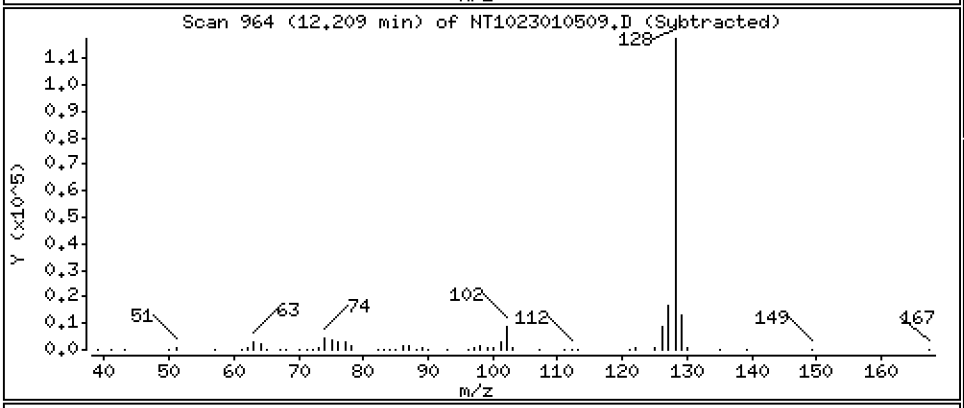
Column phase: ZB-5msi

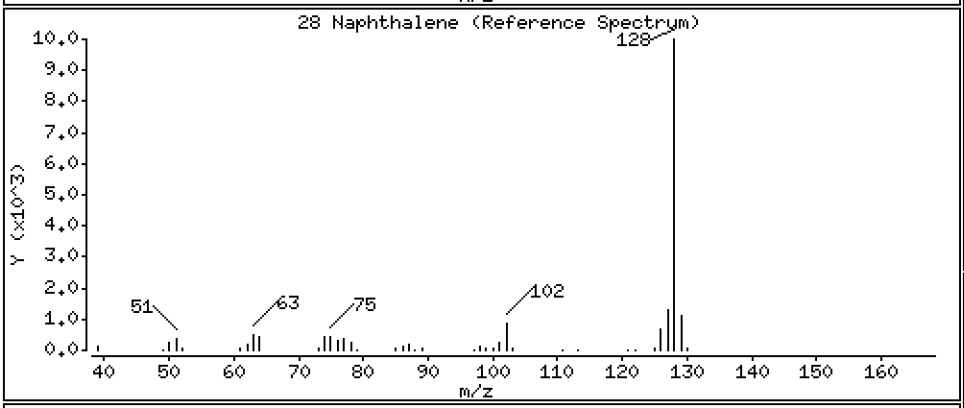
Column diameter: 0.25

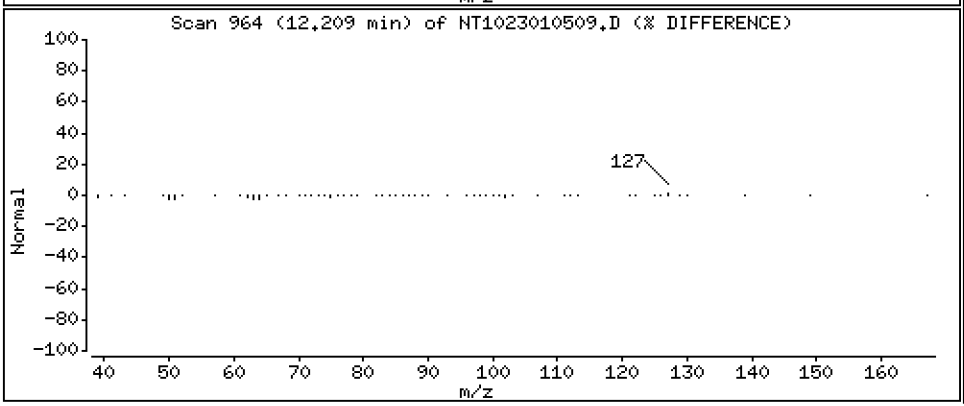
28 Naphthalene

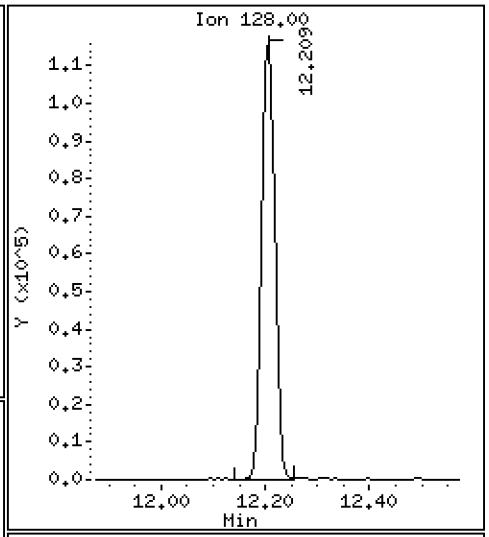
Concentration: 2.887 ug/mL

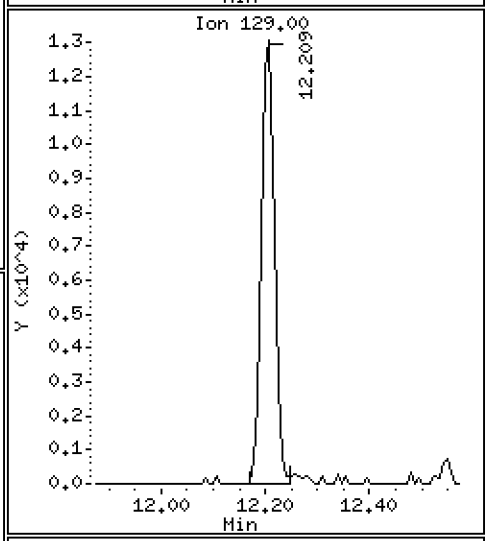


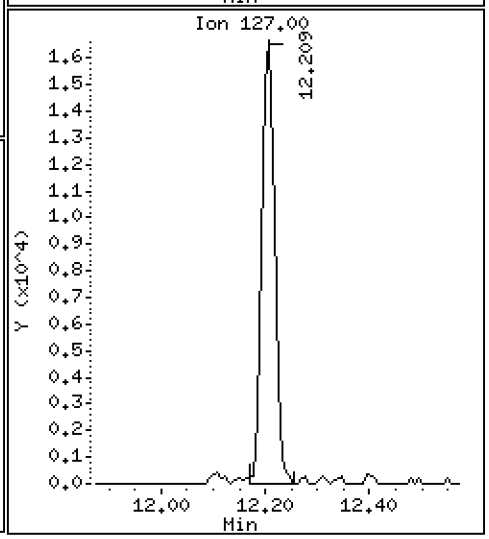












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

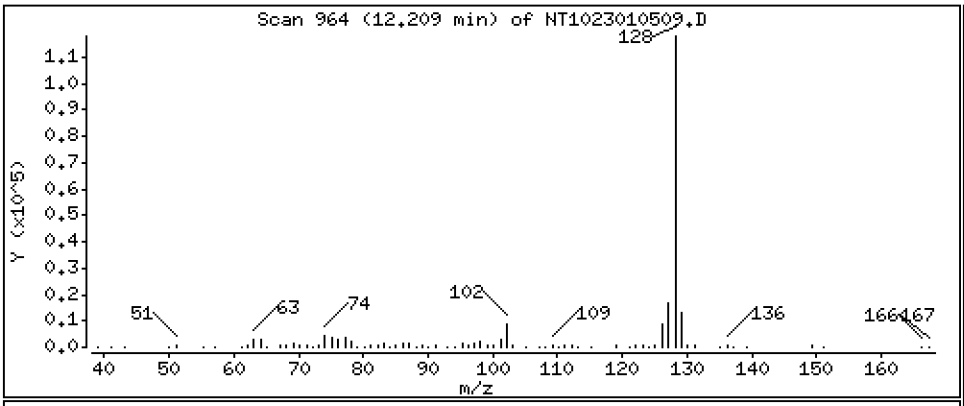
Operator: VTS

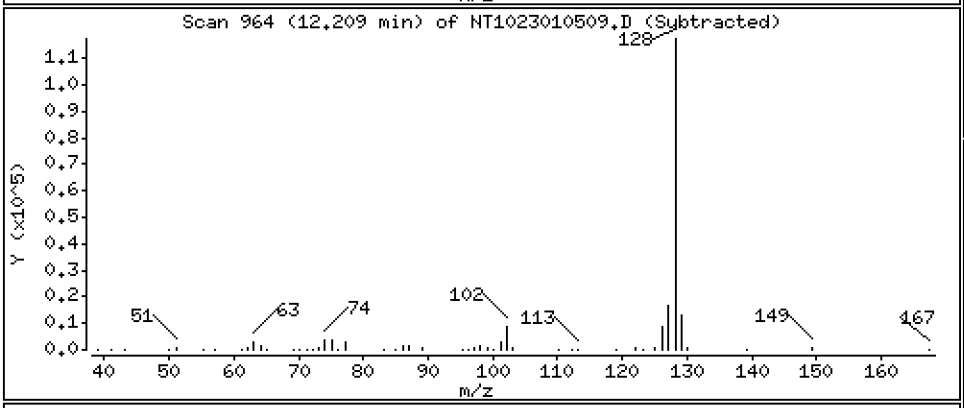
Column phase: ZB-5msi

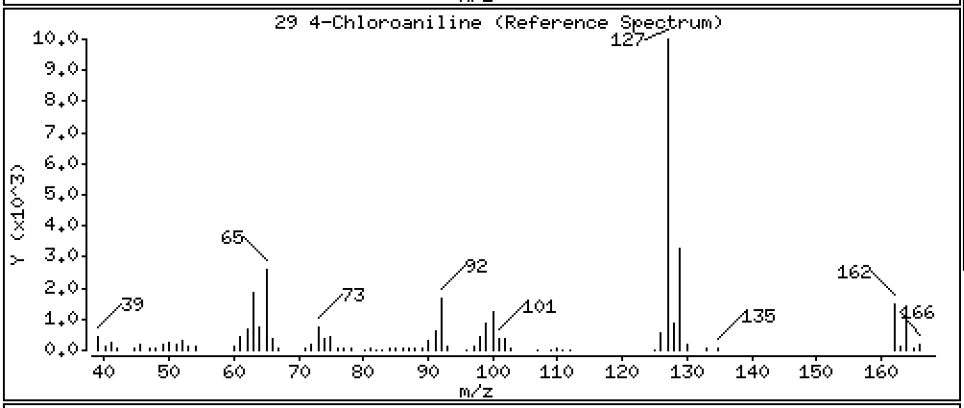
Column diameter: 0.25

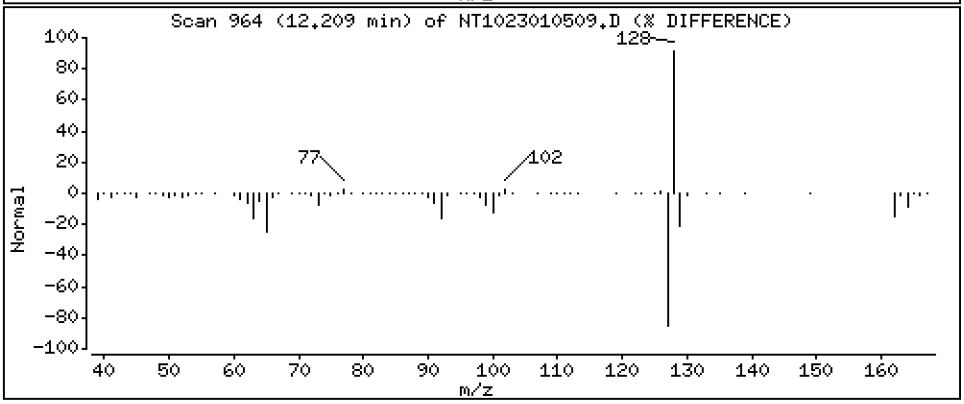
29 4-Chloroaniline

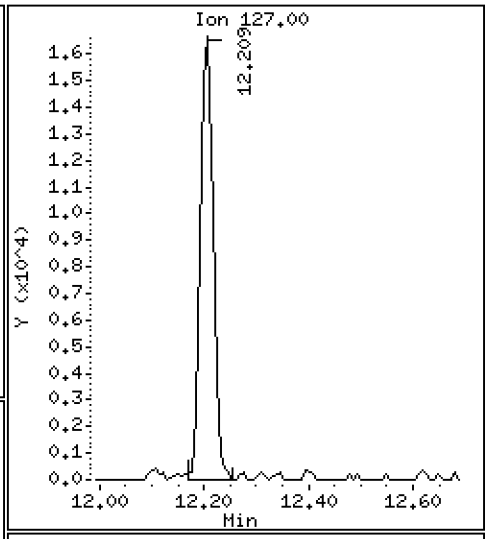
Concentration: 1.030 ug/mL

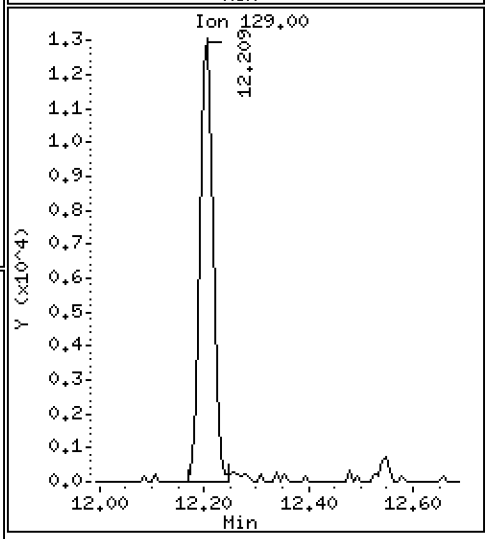












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

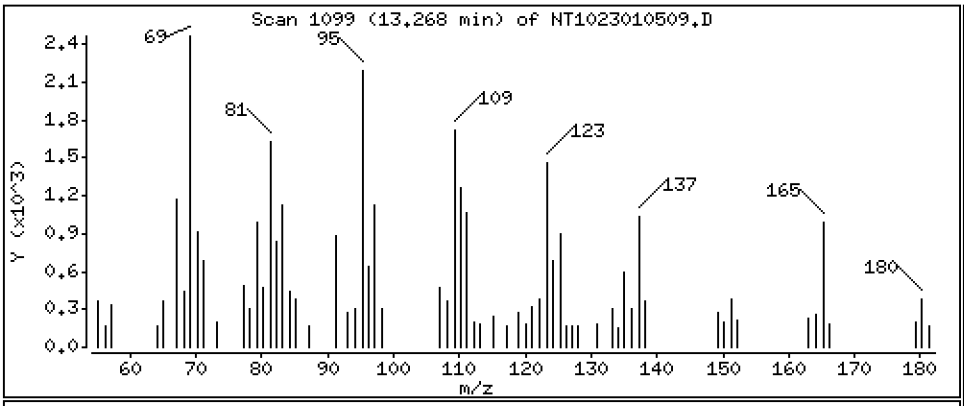
Operator: VTS

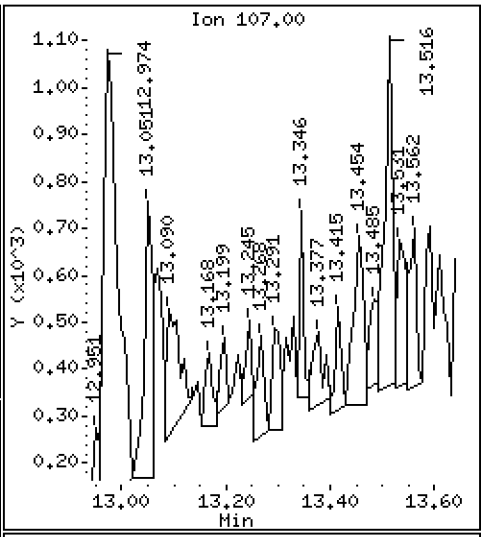
Column phase: ZB-5msi

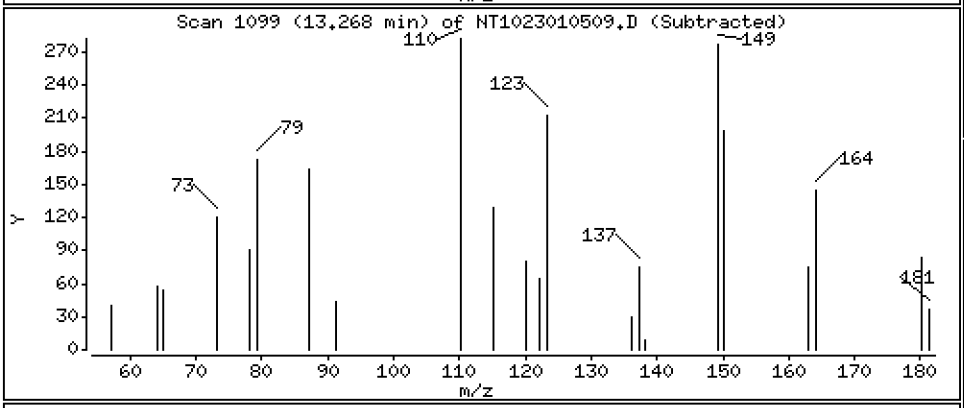
Column diameter: 0.25

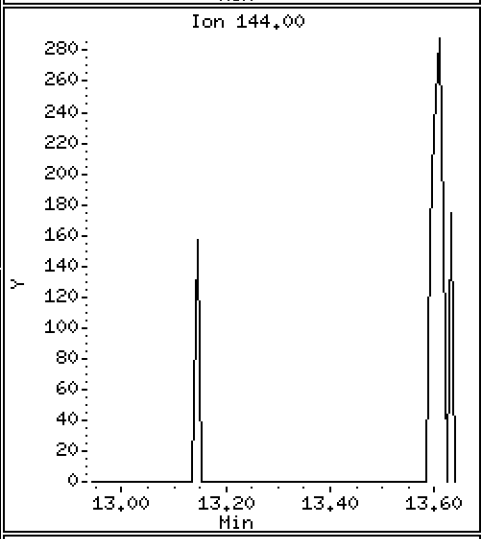
31 4-Chloro-3-methylphenol

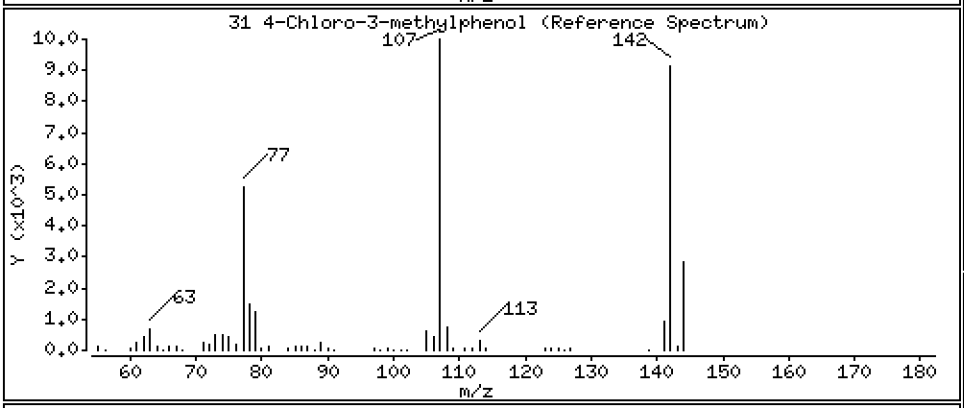
Concentration: 0.01291 ug/mL

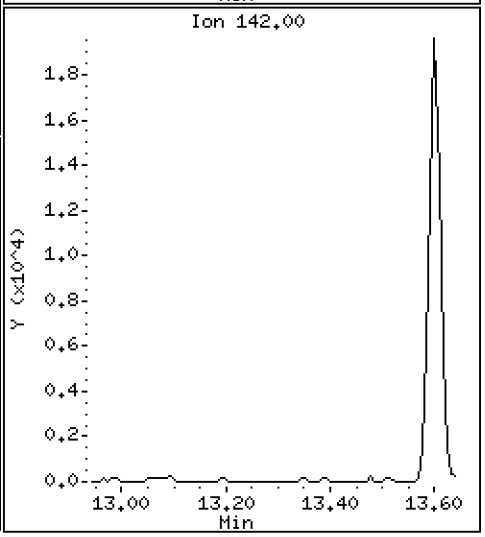


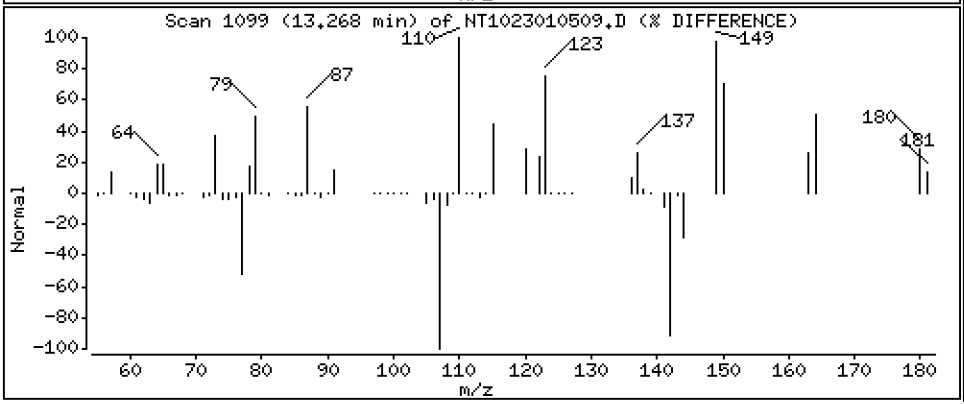












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

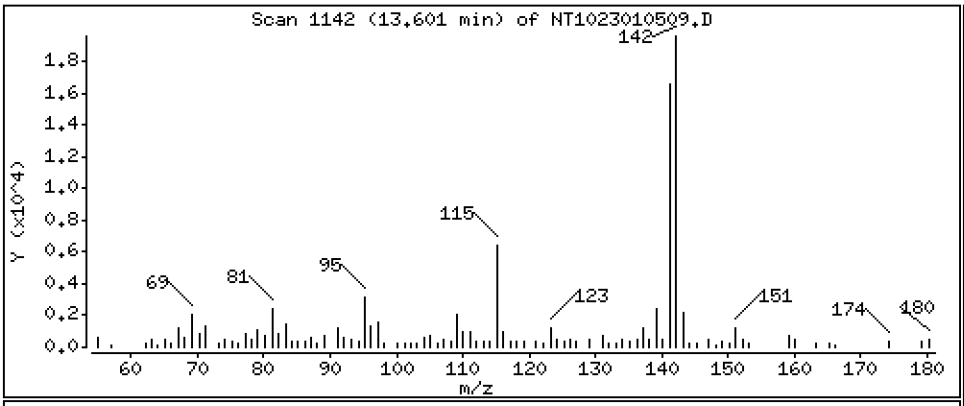
Operator: VTS

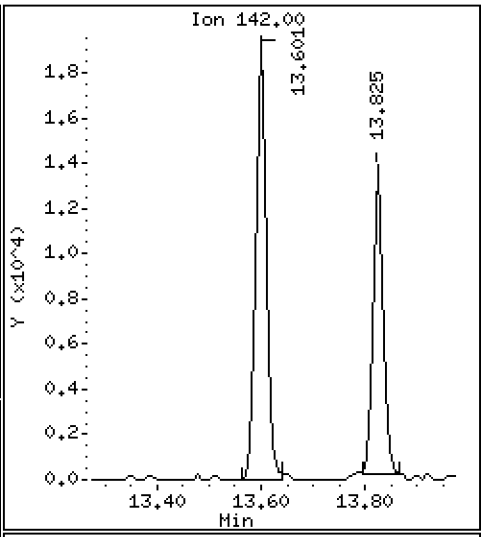
Column phase: ZB-5msi

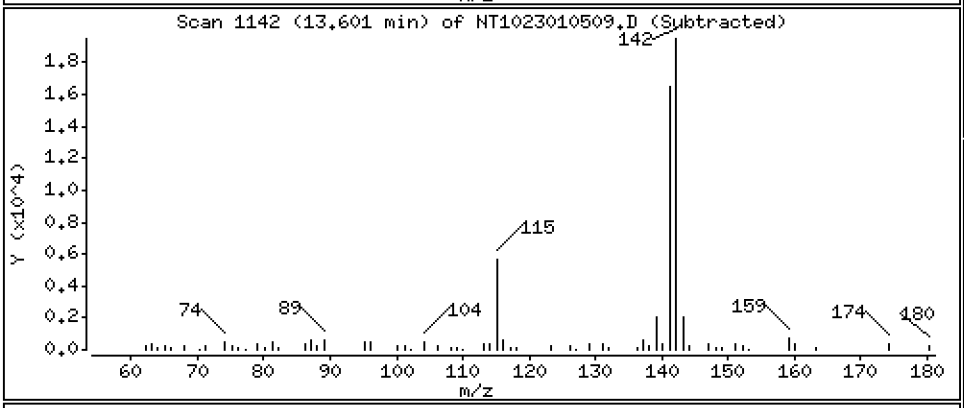
Column diameter: 0.25

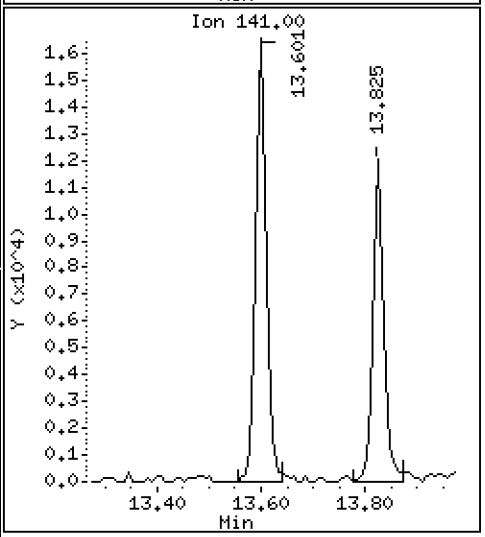
32 2-Methylnaphthalene

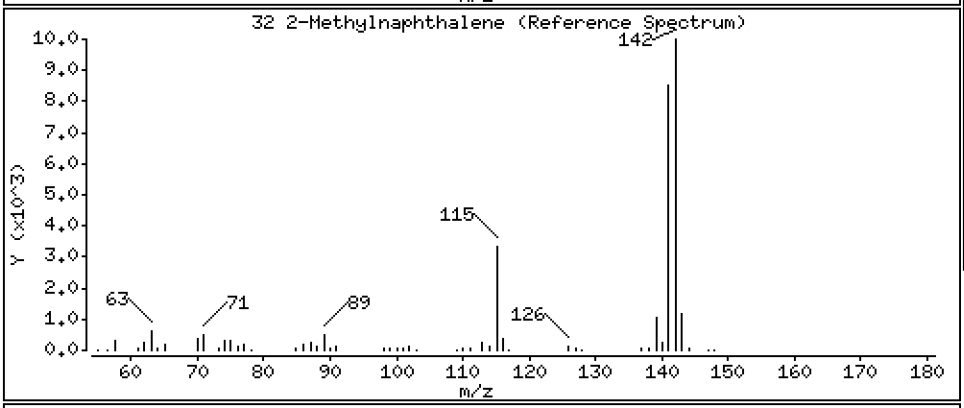
Concentration: 0.5233 ug/mL

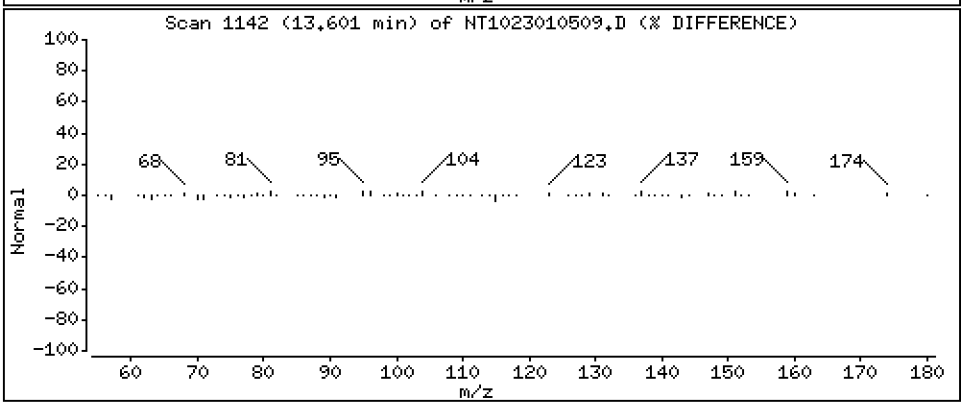












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

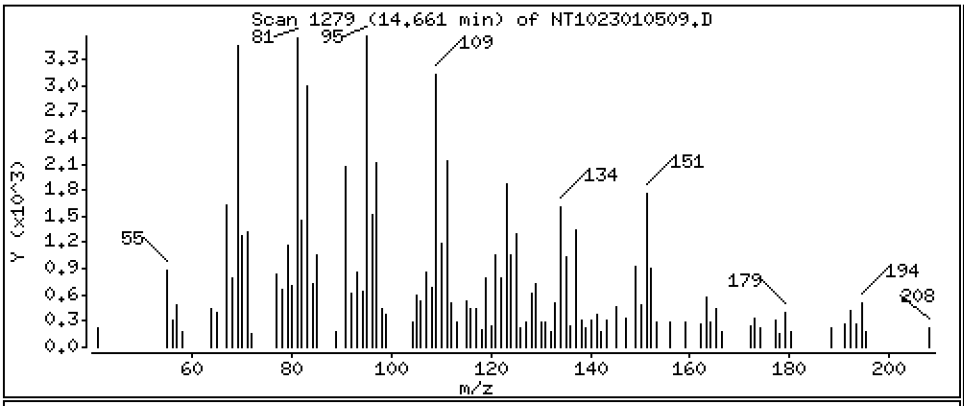
Operator: VTS

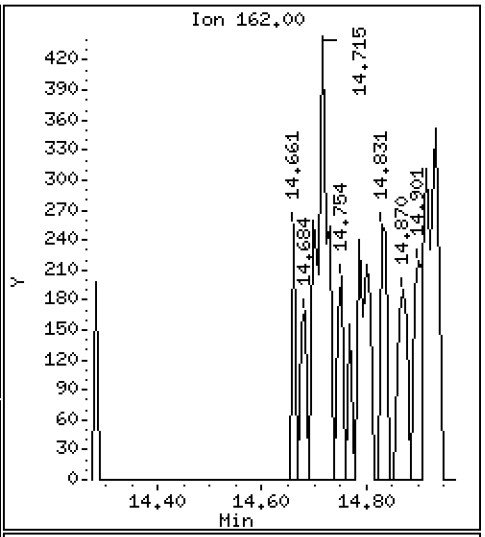
Column phase: ZB-5msi

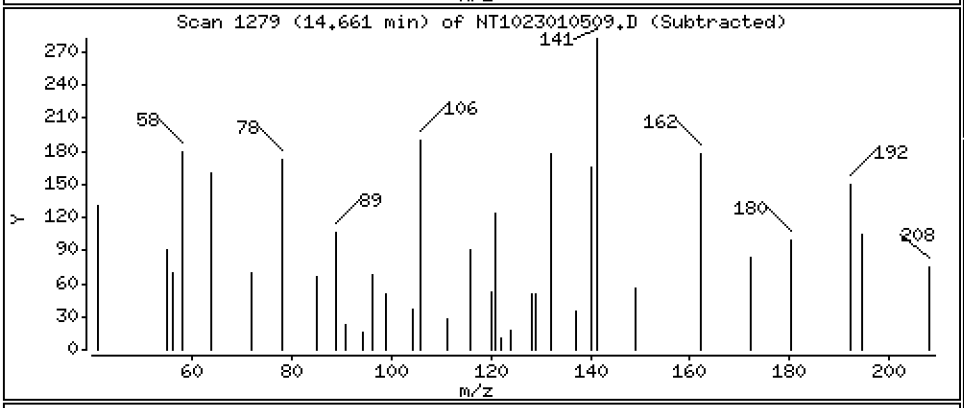
Column diameter: 0.25

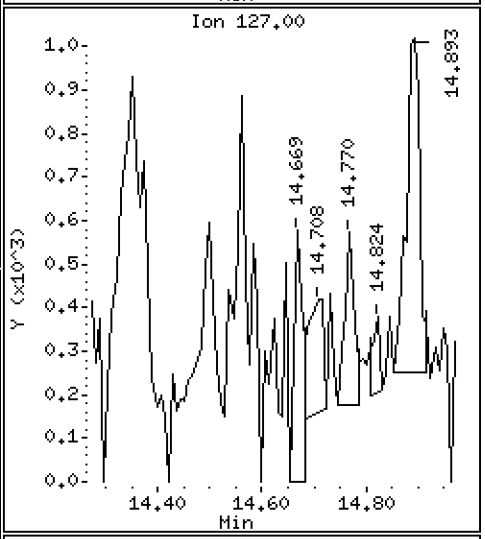
37 2-Chloronaphthalene

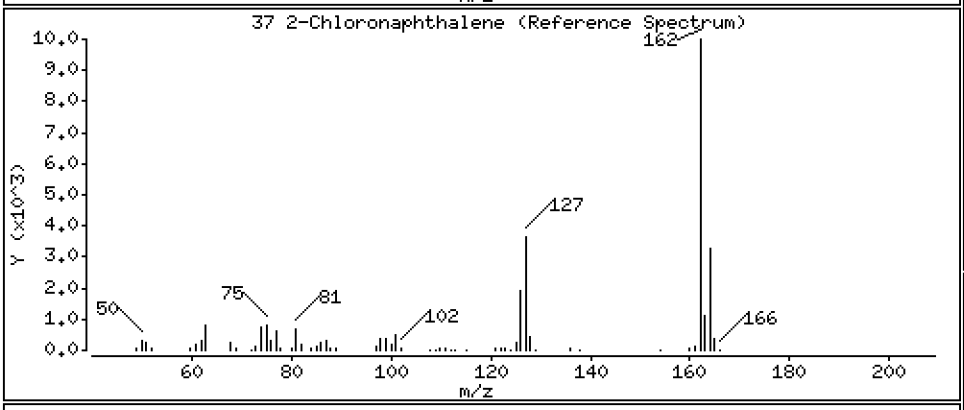
Concentration: 0.002939 ug/mL

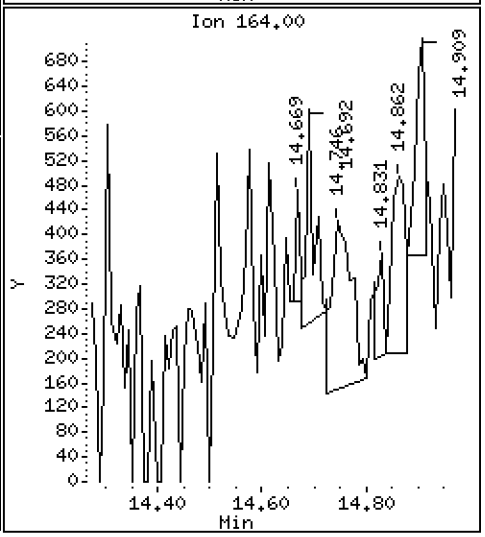


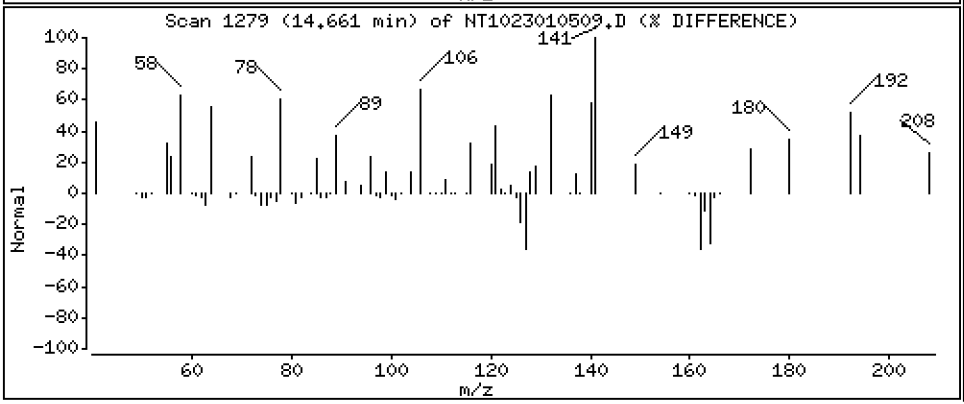












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

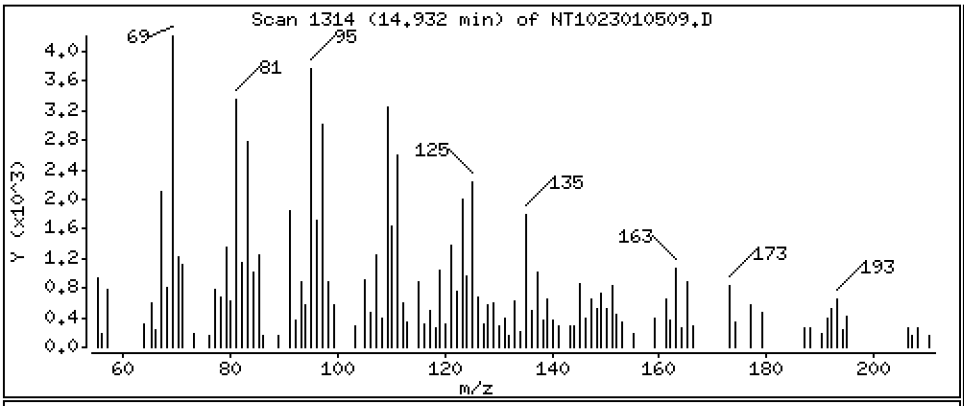
Operator: VTS

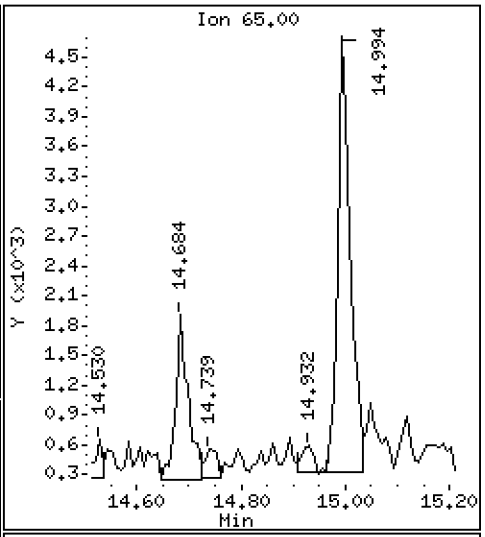
Column phase: ZB-5msi

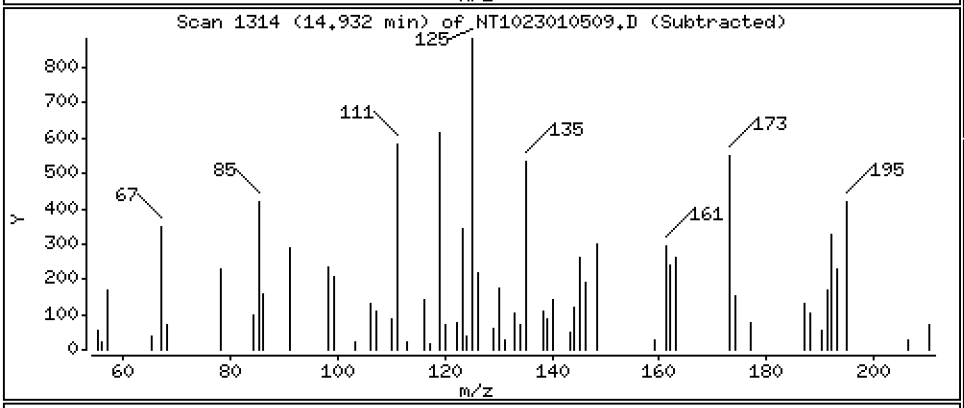
Column diameter: 0.25

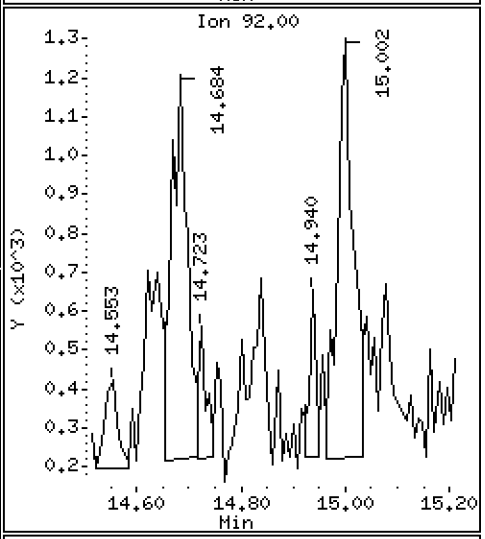
38 2-Nitroaniline

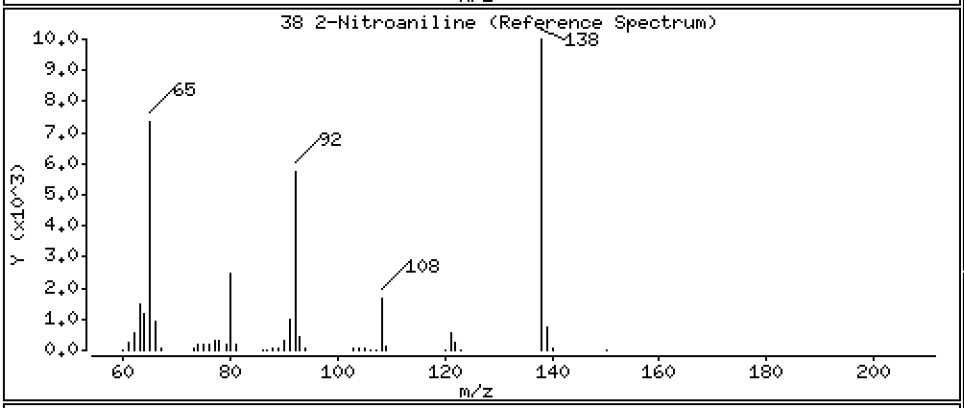
Concentration: 0.08913 ug/mL

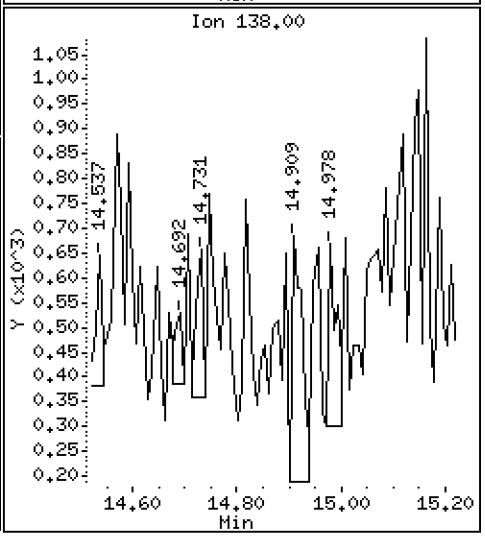


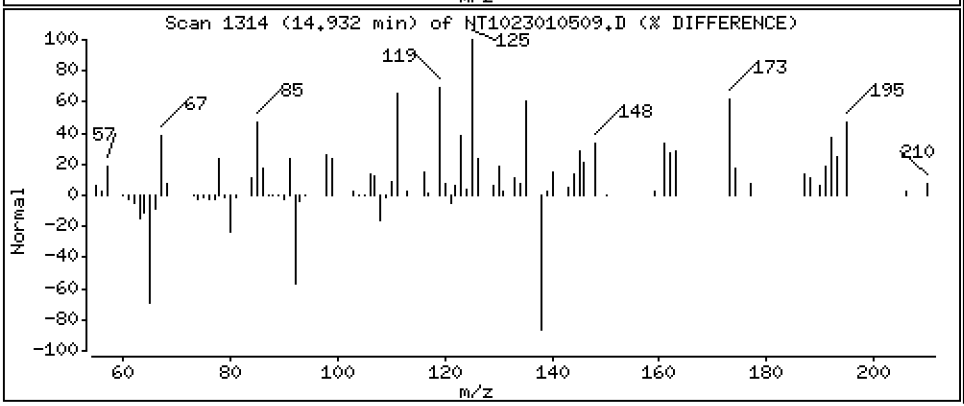












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

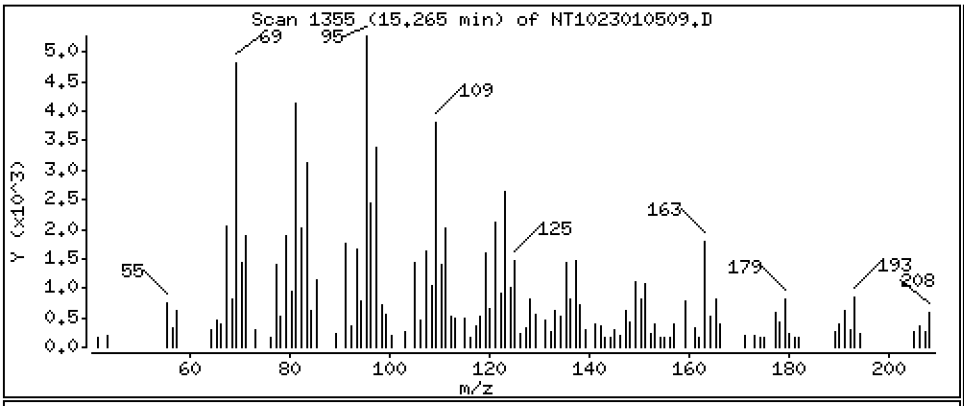
Operator: VTS

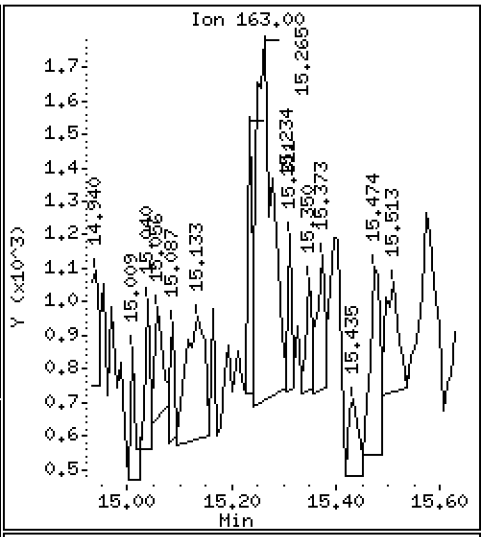
Column phase: ZB-5msi

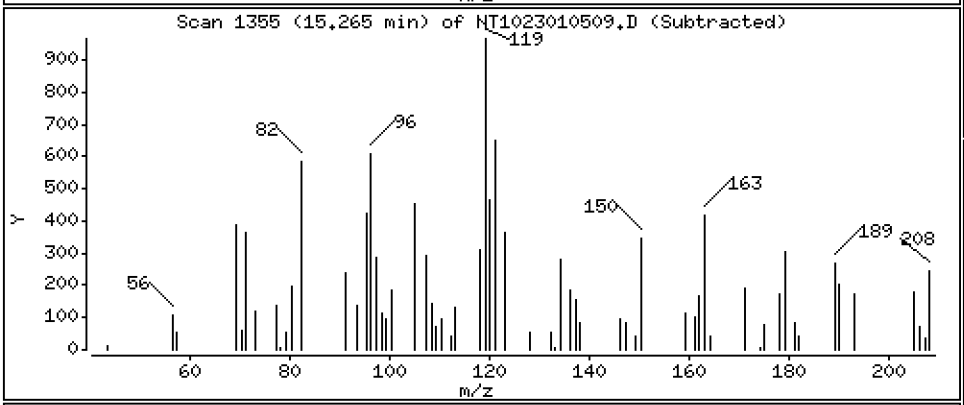
Column diameter: 0.25

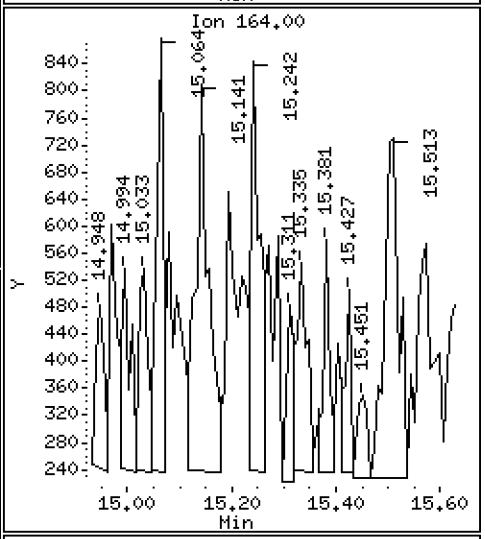
39 Dimethylphthalate

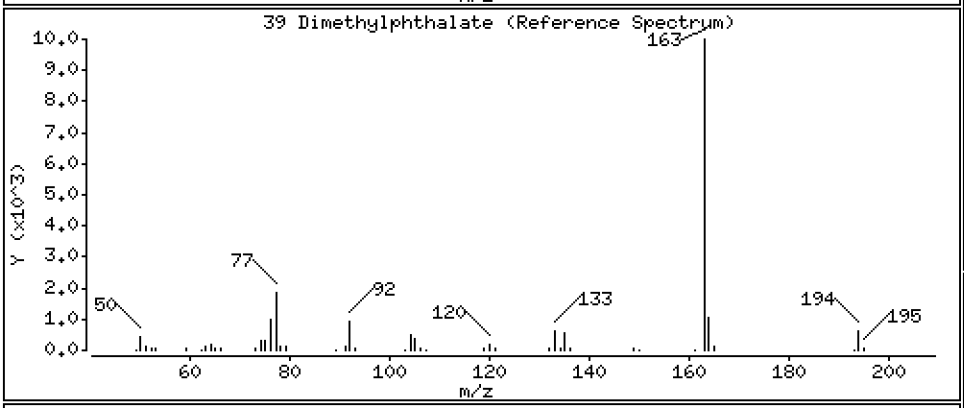
Concentration: 0.06600 ug/mL

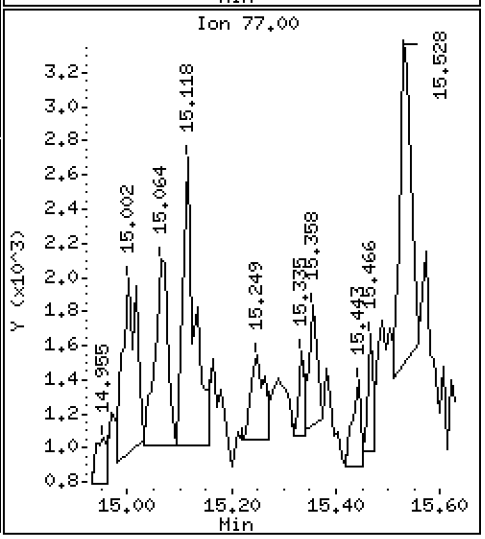


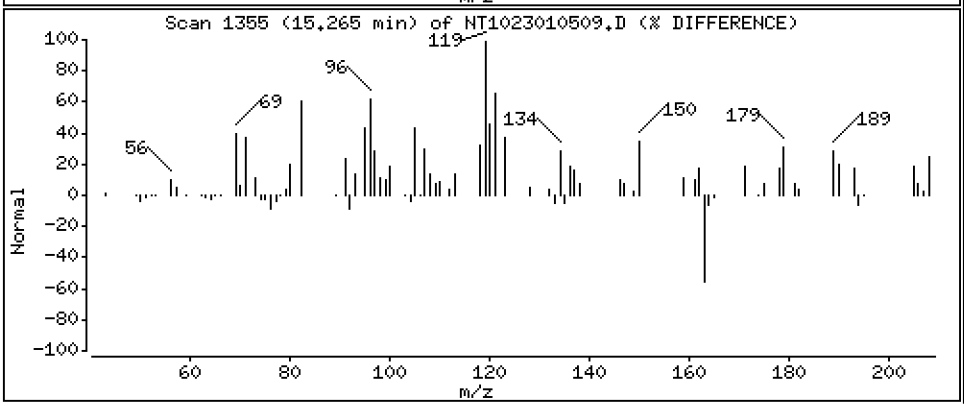












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

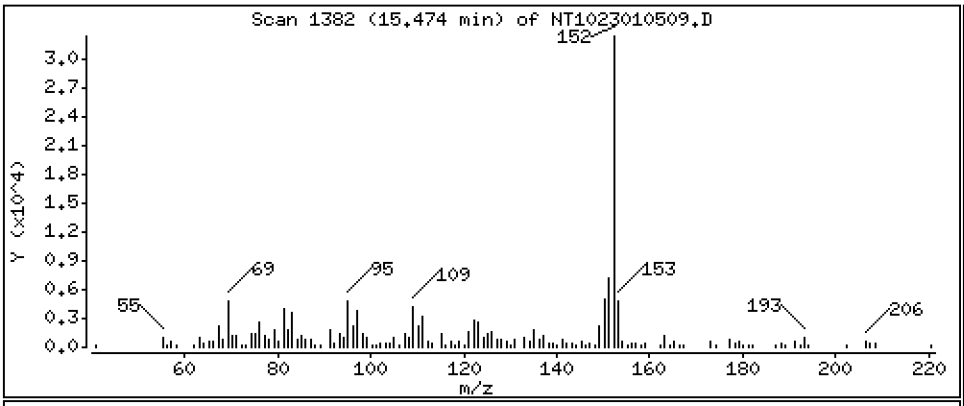
Operator: VTS

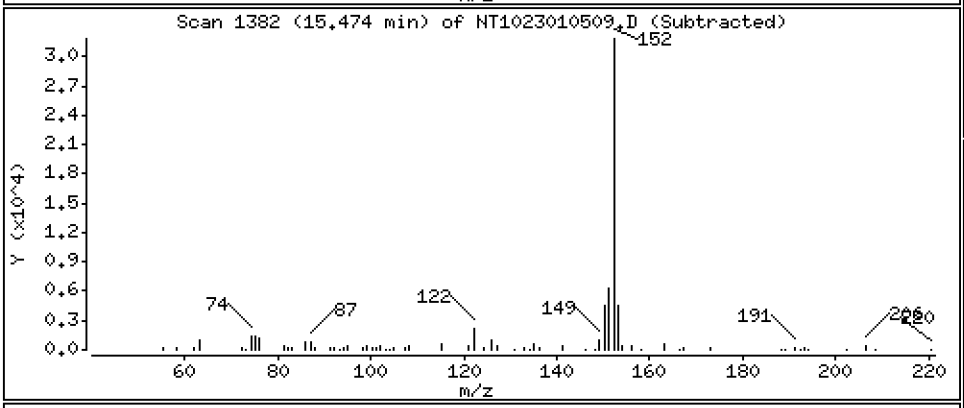
Column phase: ZB-5msi

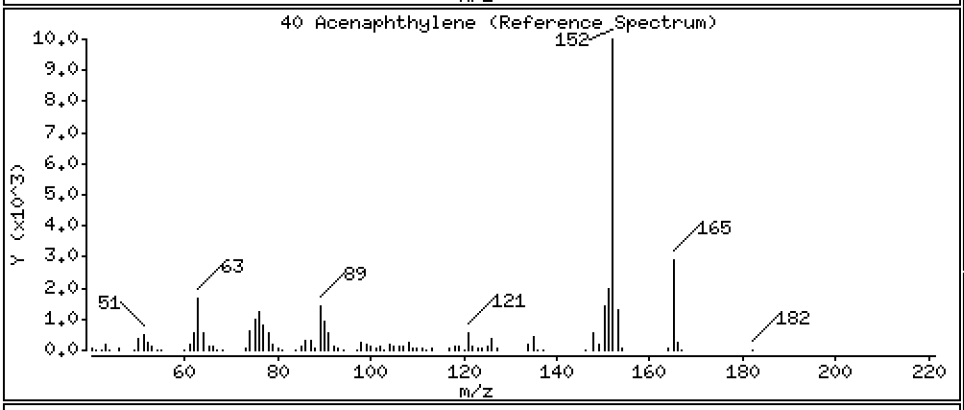
Column diameter: 0.25

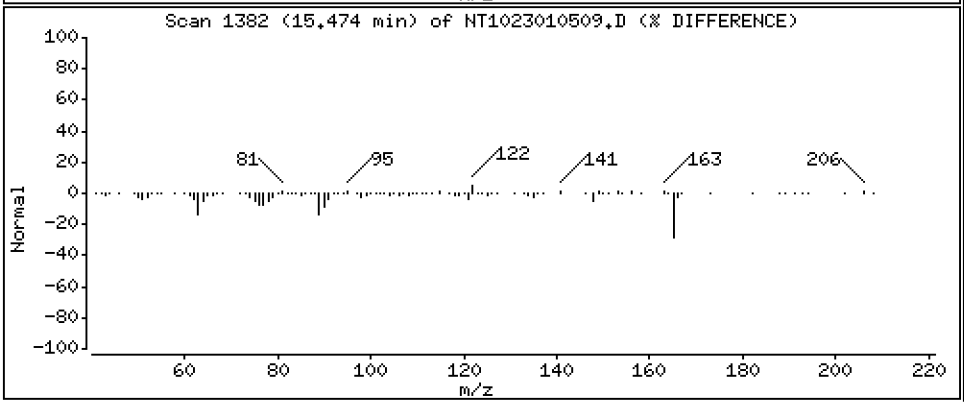
40 Acenaphthylene

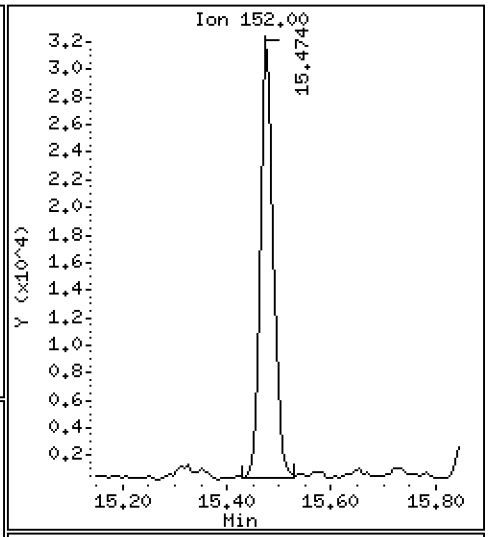
Concentration: 0.9451 ug/mL

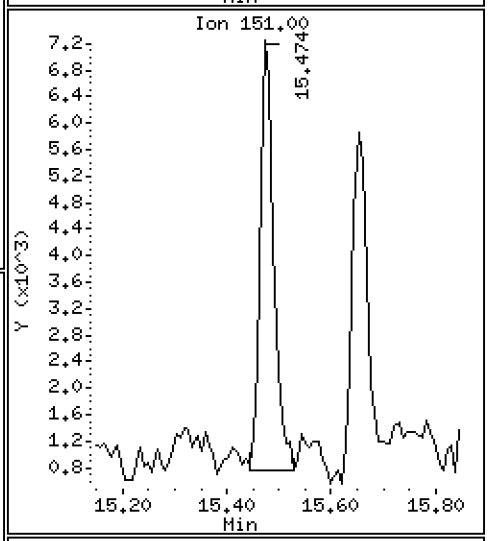


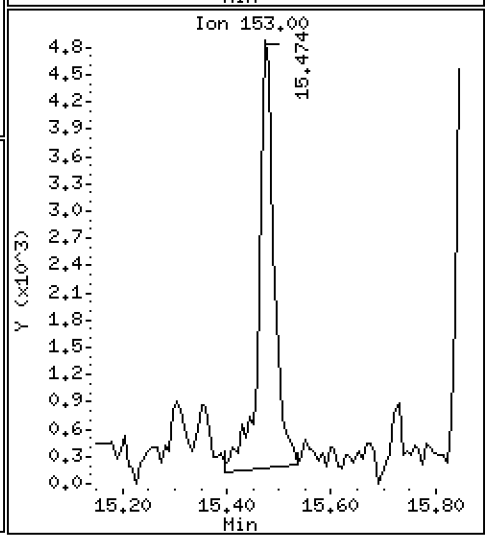












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

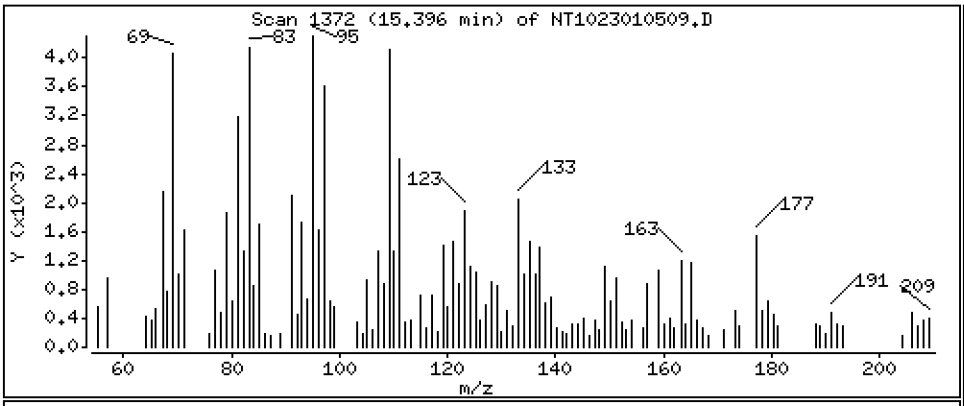
Operator: VTS

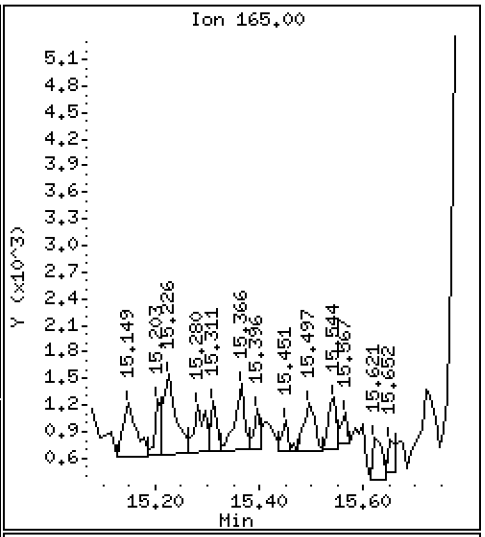
Column phase: ZB-5msi

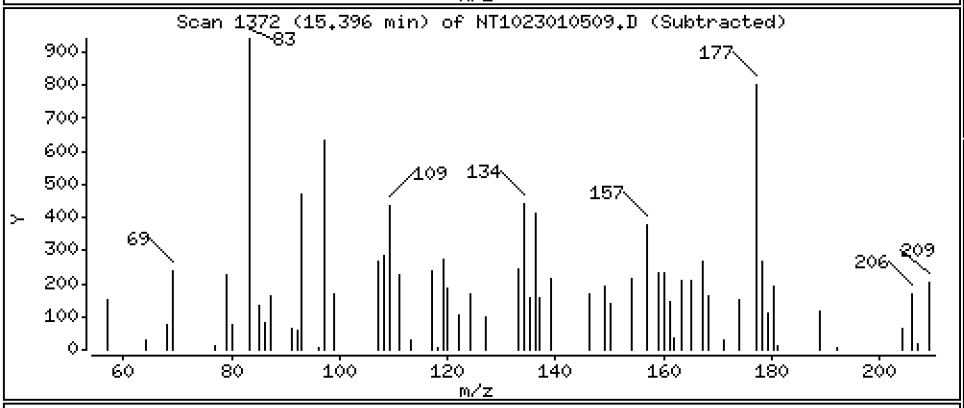
Column diameter: 0.25

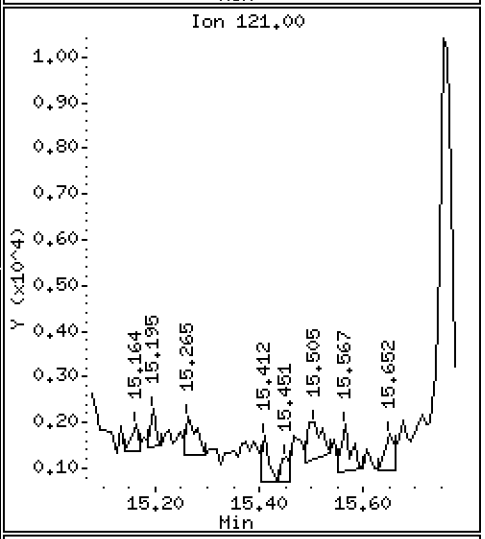
41 2,6-Dinitrotoluene

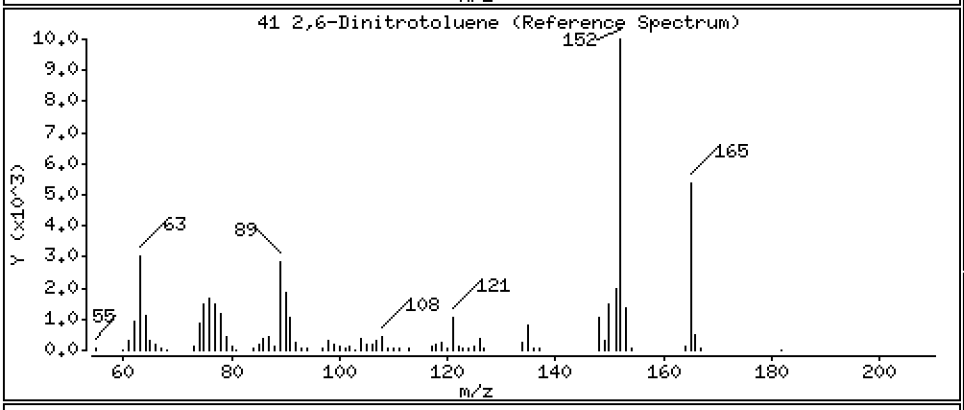
Concentration: 0.05092 ug/mL

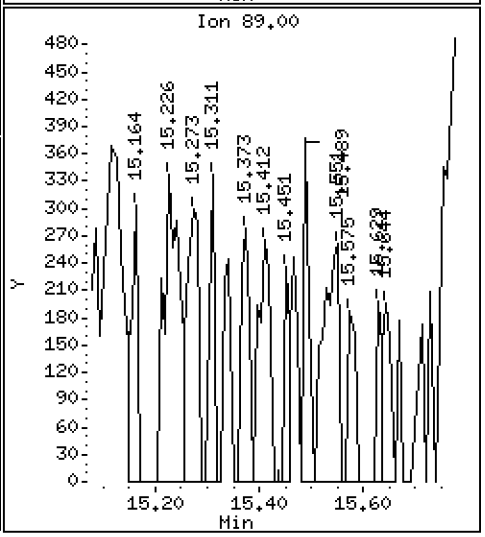


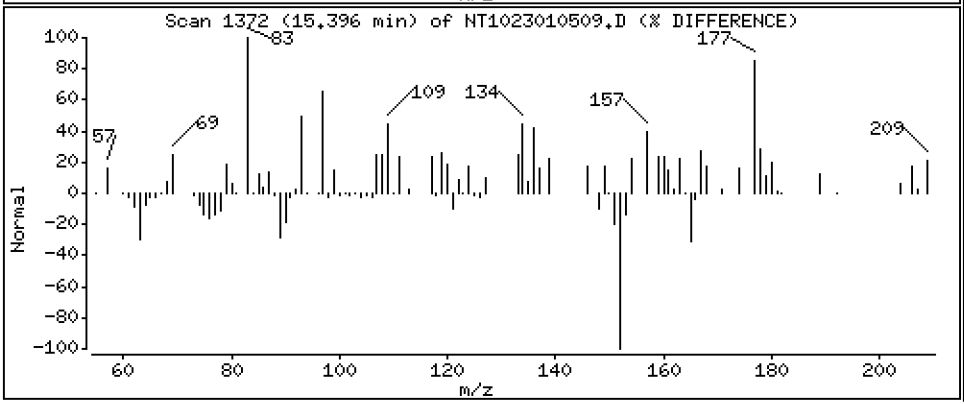












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

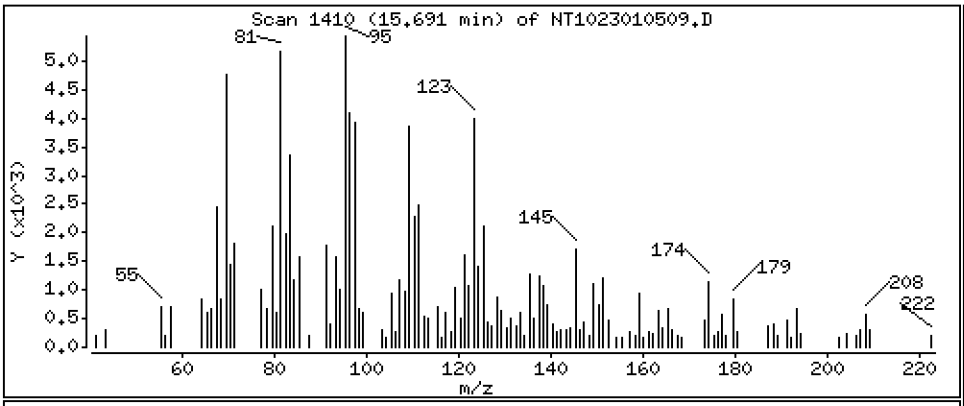
Operator: VTS

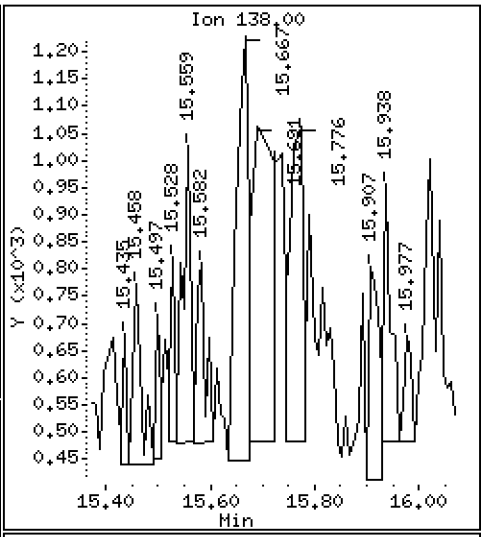
Column phase: ZB-5msi

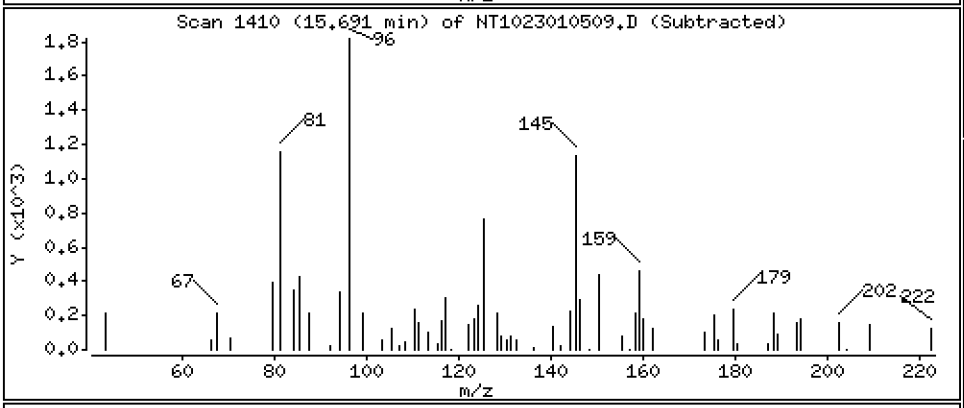
Column diameter: 0.25

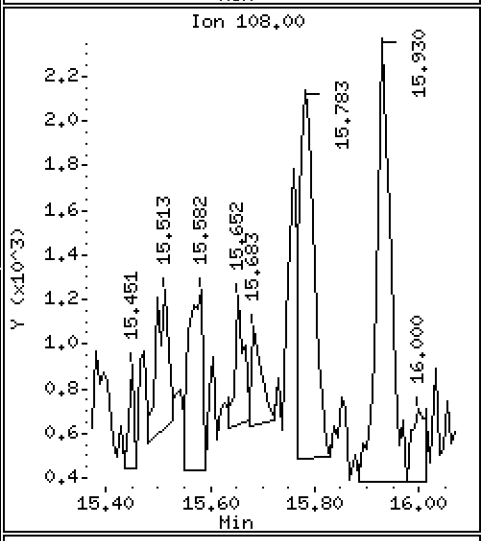
43 3-Nitroaniline

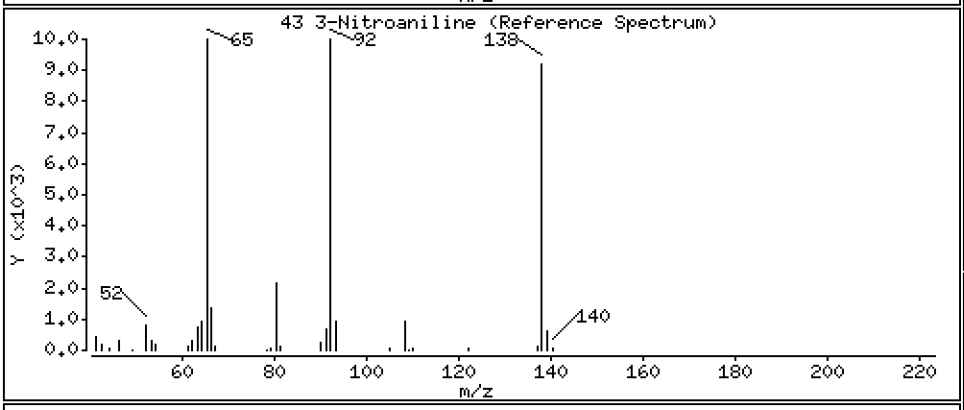
Concentration: 0.3051 ug/mL

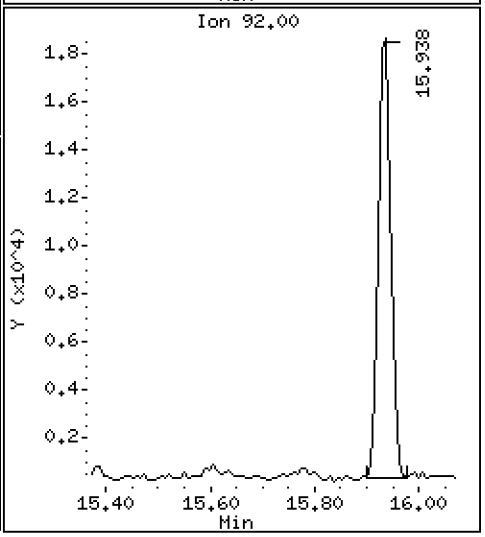


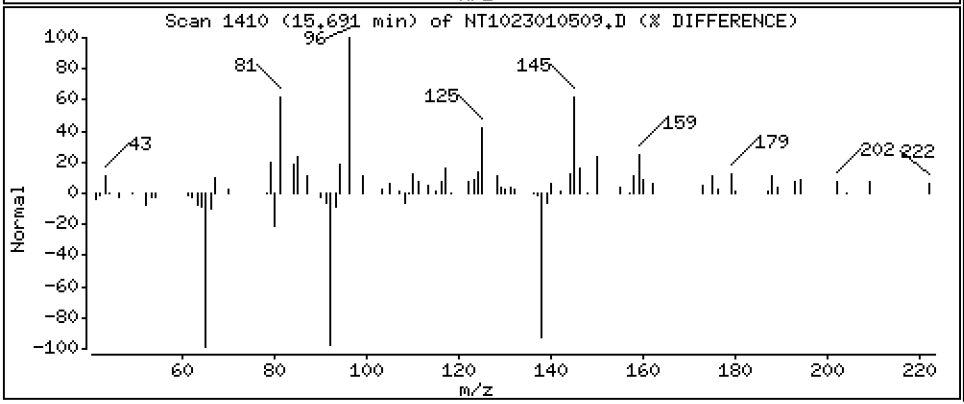












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

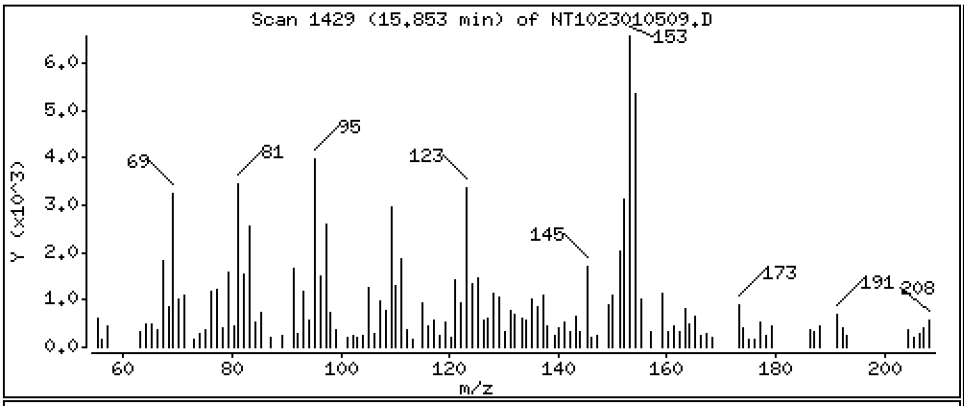
Operator: VTS

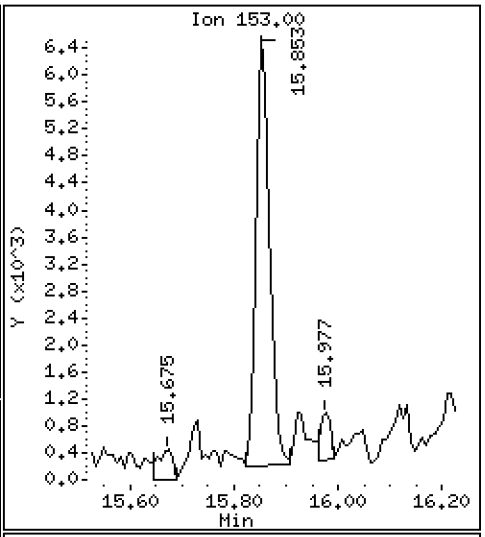
Column phase: ZB-5msi

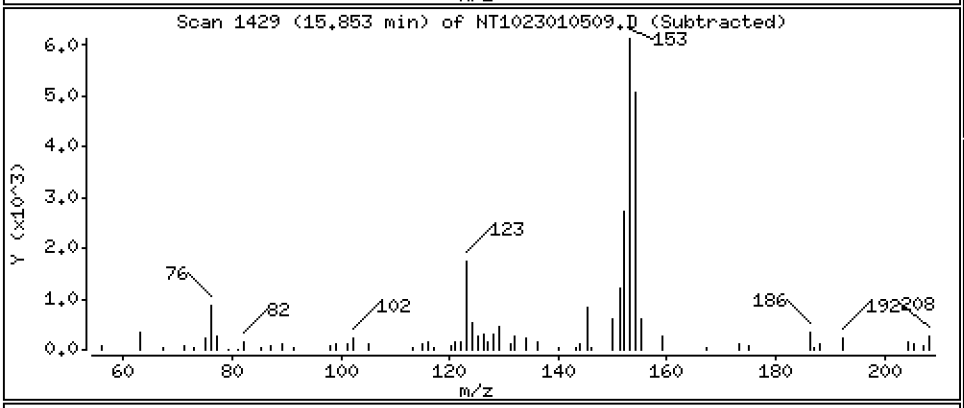
Column diameter: 0.25

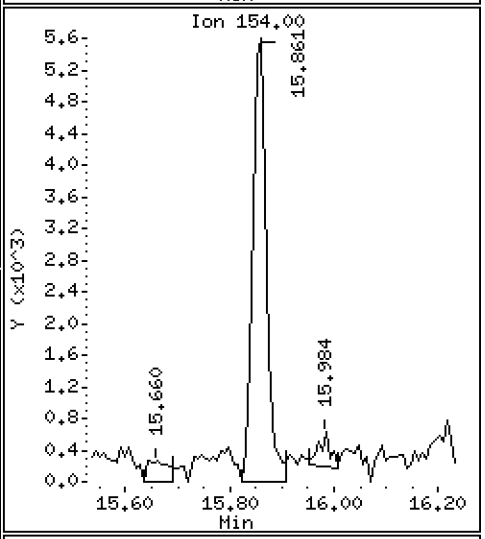
44 Acenaphthene

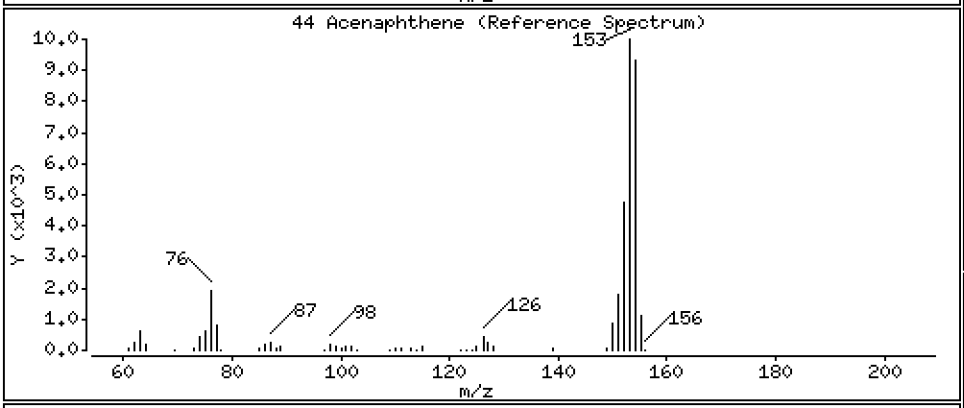
Concentration: 0.3573 ug/mL

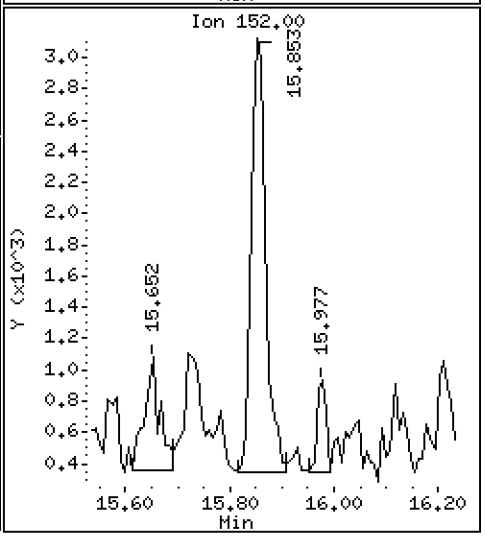


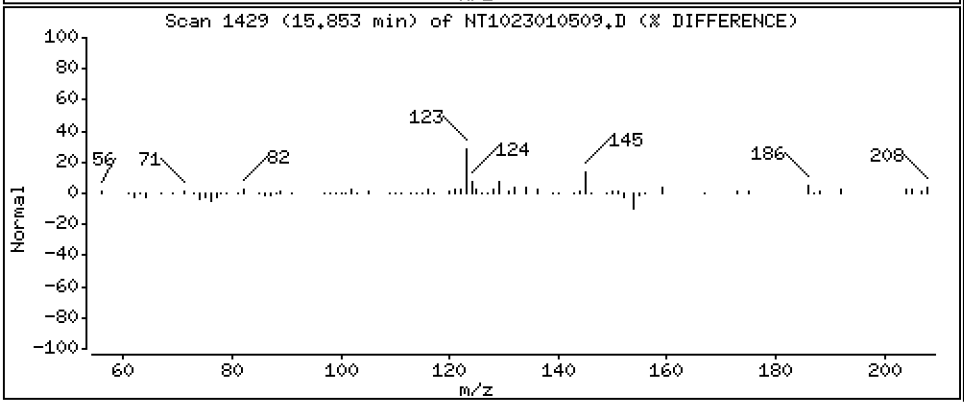












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

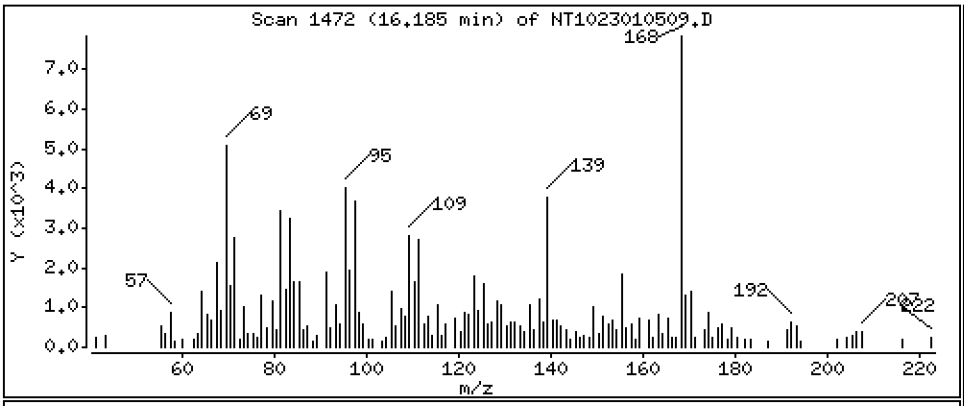
Operator: VTS

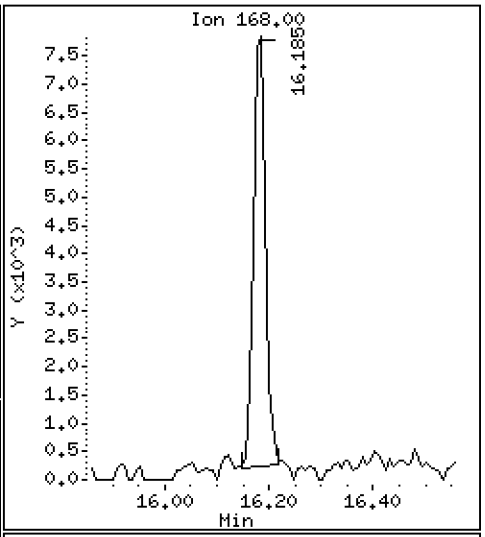
Column phase: ZB-5msi

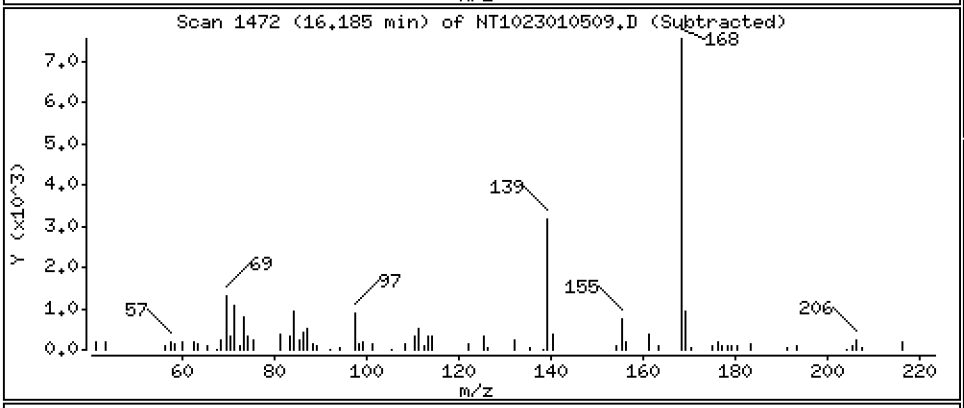
Column diameter: 0.25

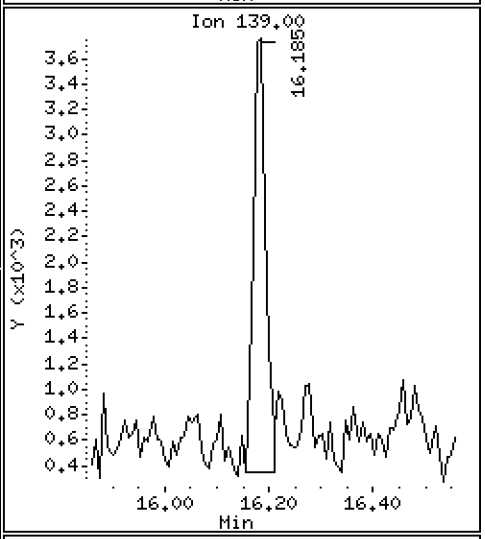
46 Dibenzofuran

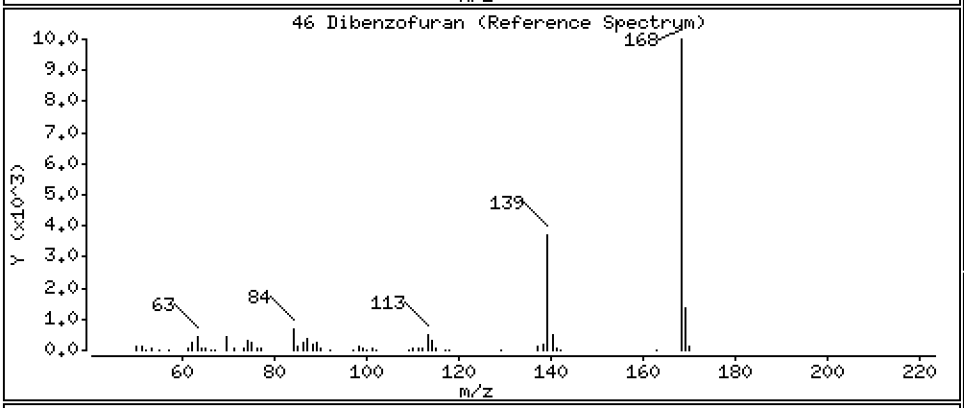
Concentration: 0.2586 ug/mL

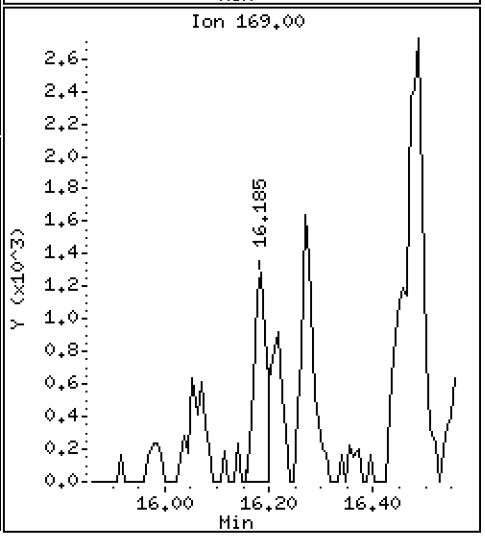


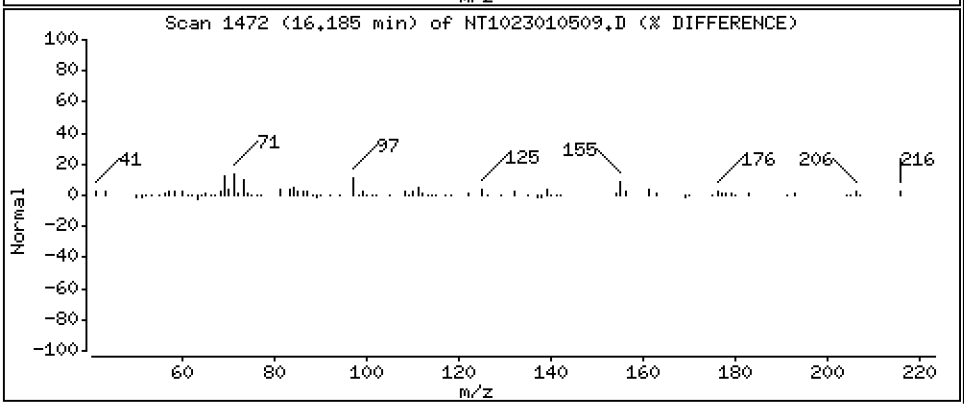












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

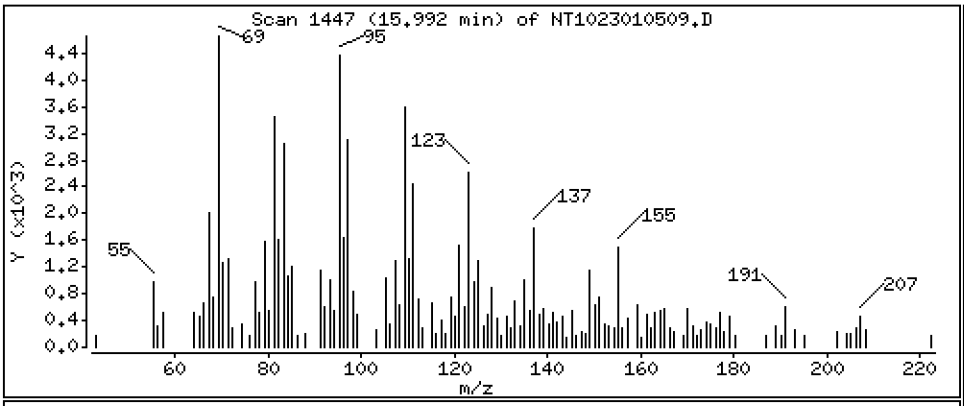
Operator: VTS

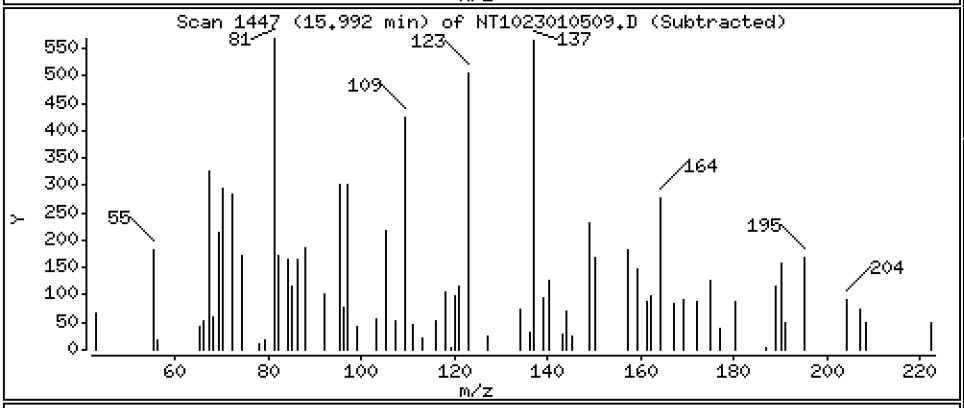
Column phase: ZB-5msi

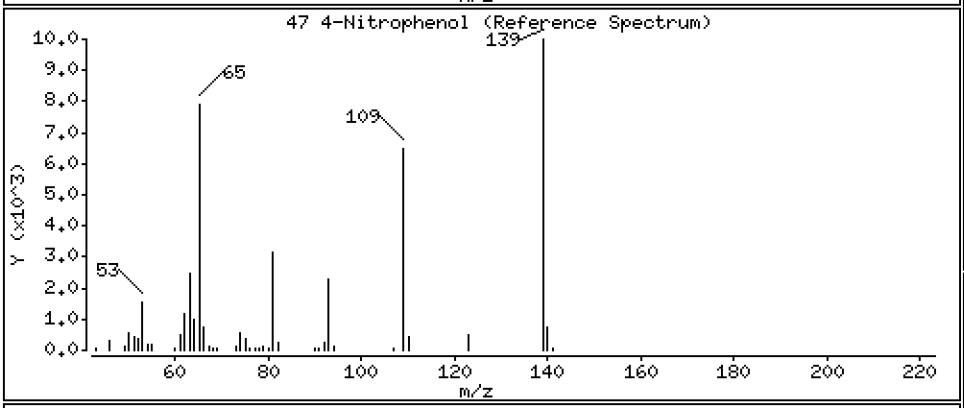
Column diameter: 0.25

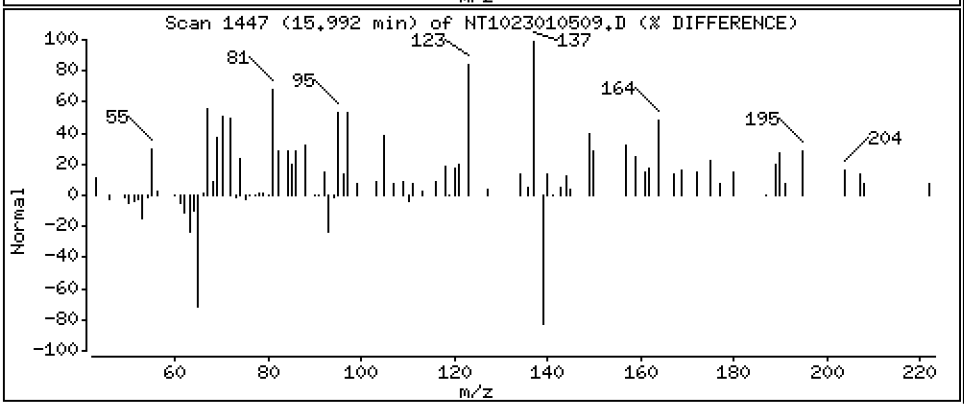
47 4-Nitrophenol

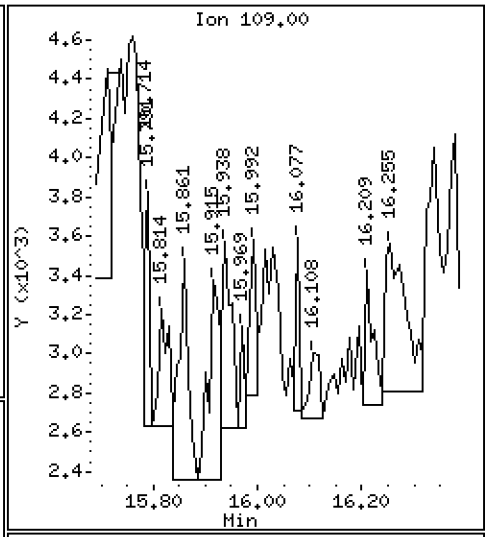
Concentration: 0.1679 ug/mL

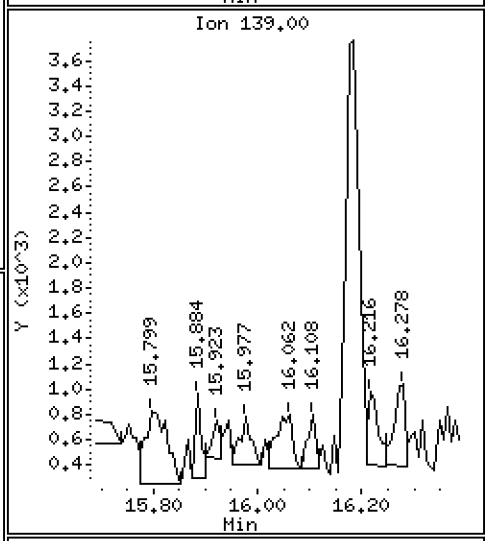


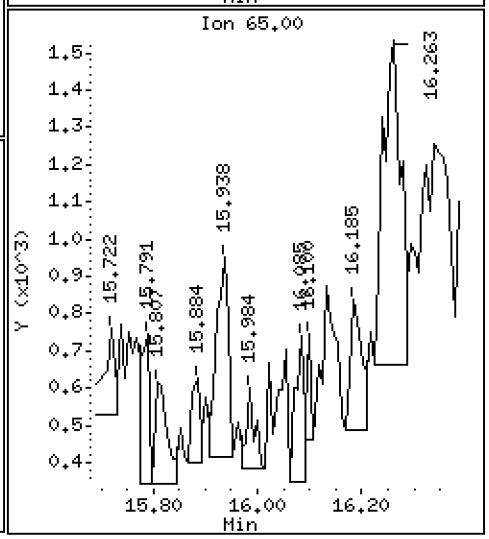












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

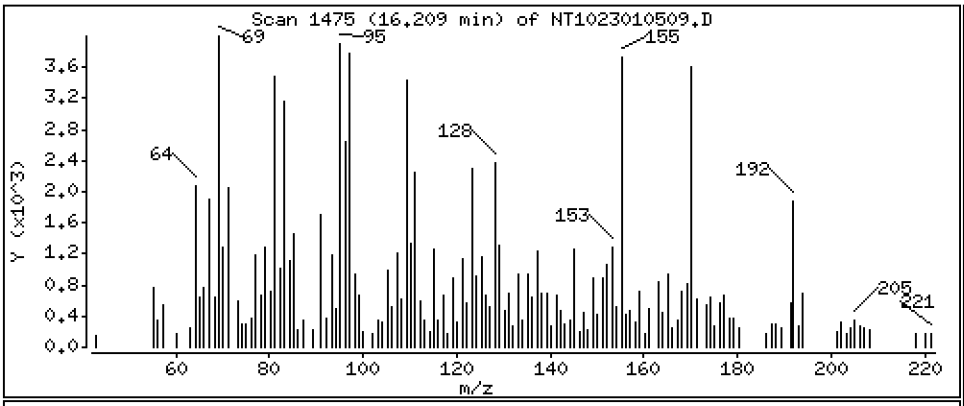
Operator: VTS

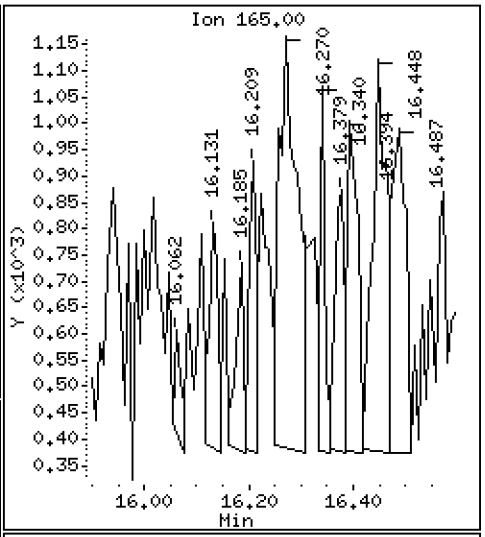
Column phase: ZB-5msi

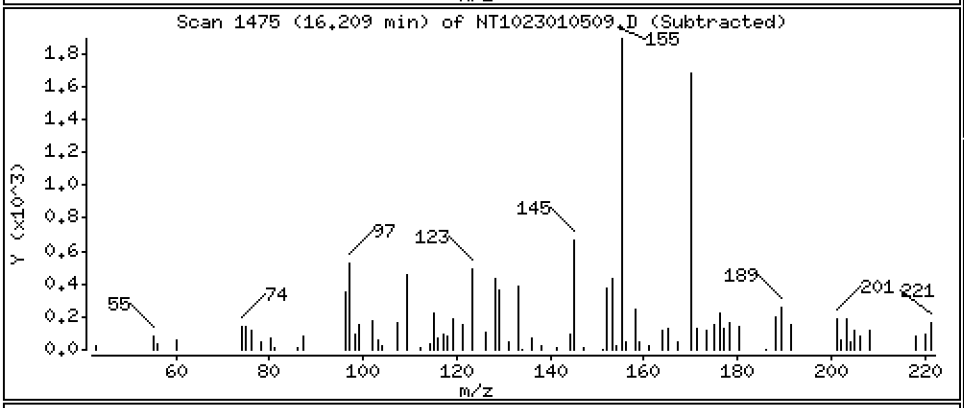
Column diameter: 0.25

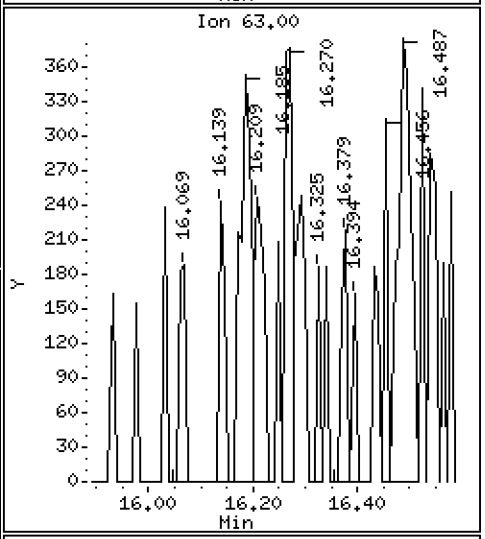
48 2,4-Dinitrotoluene

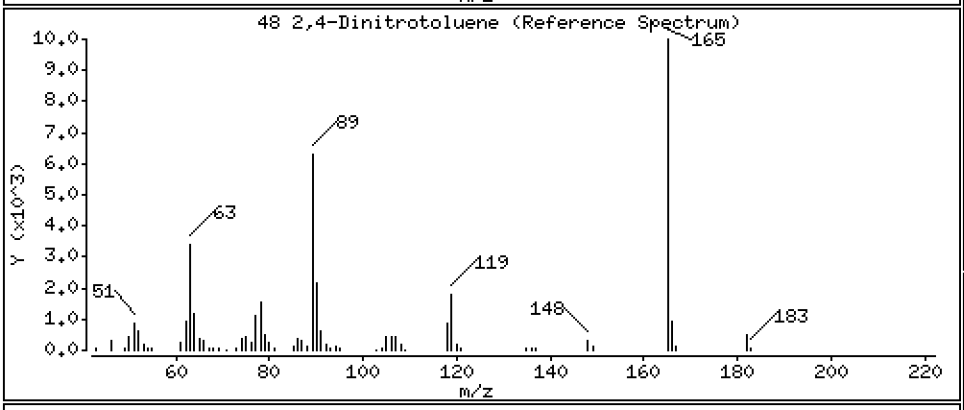
Concentration: 0.05391 ug/mL

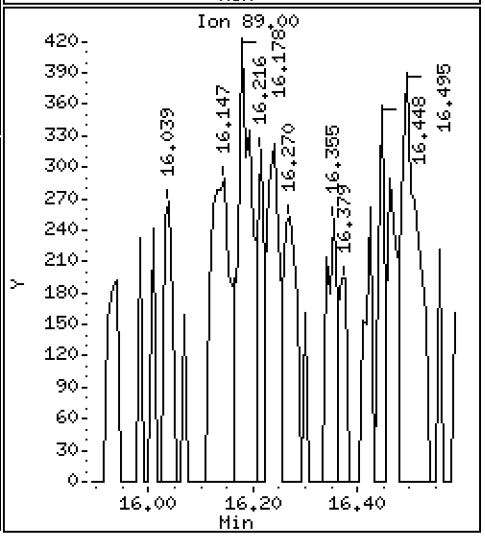


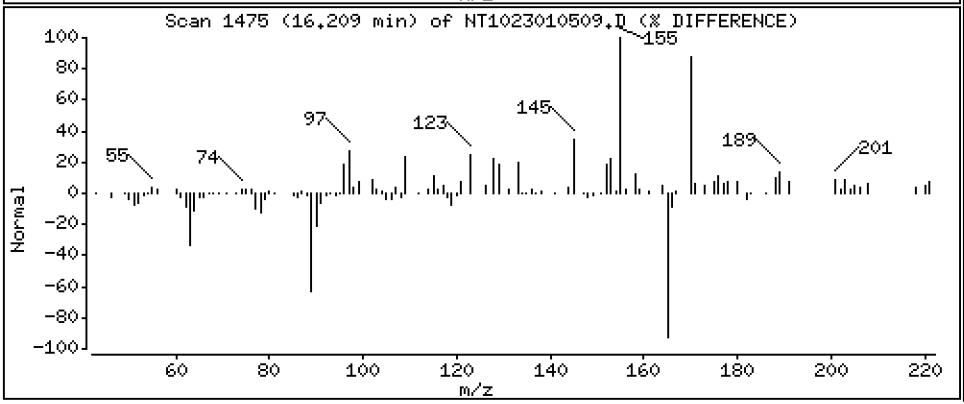












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

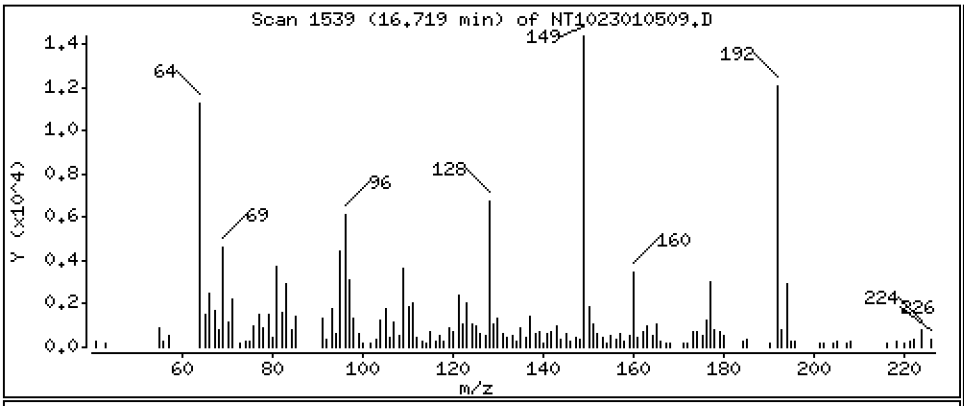
Operator: VTS

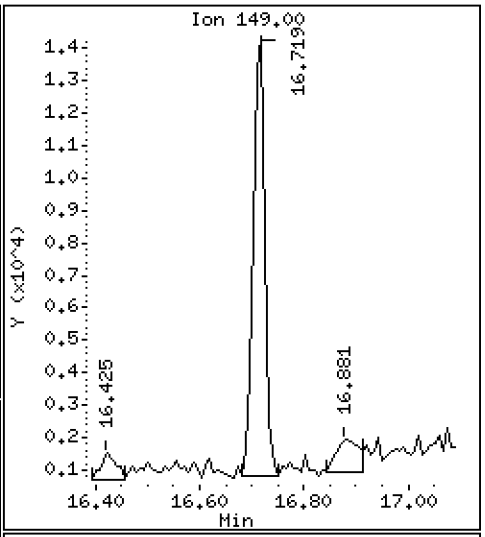
Column phase: ZB-5msi

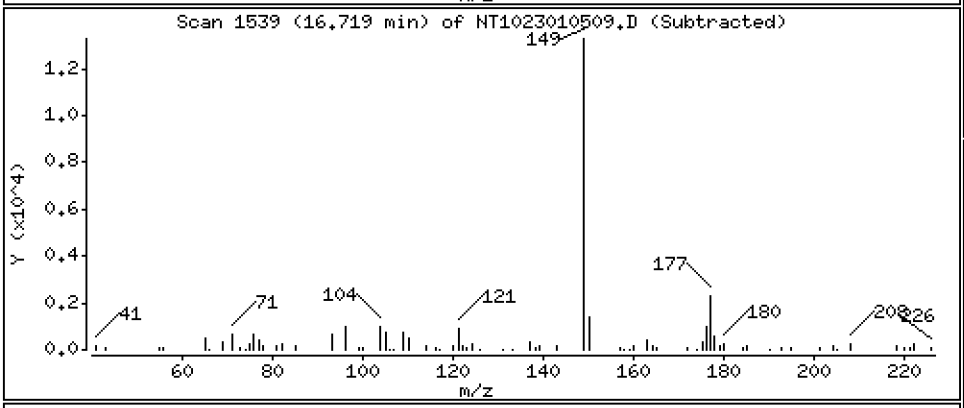
Column diameter: 0.25

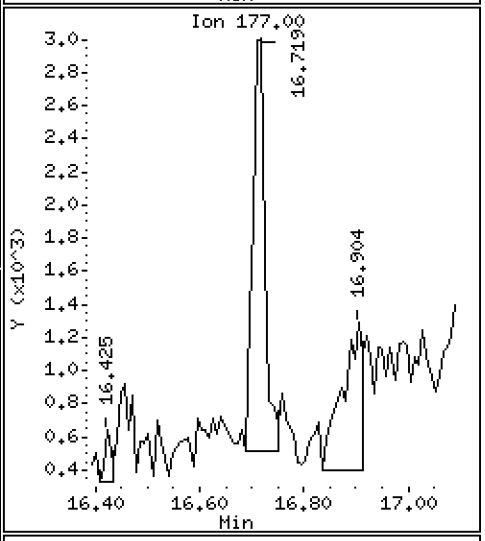
50 Diethylphthalate

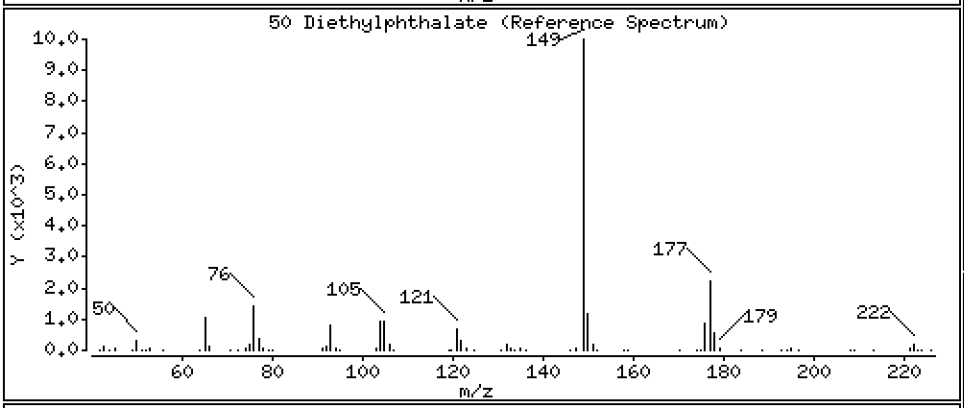
Concentration: 0.5635 ug/mL

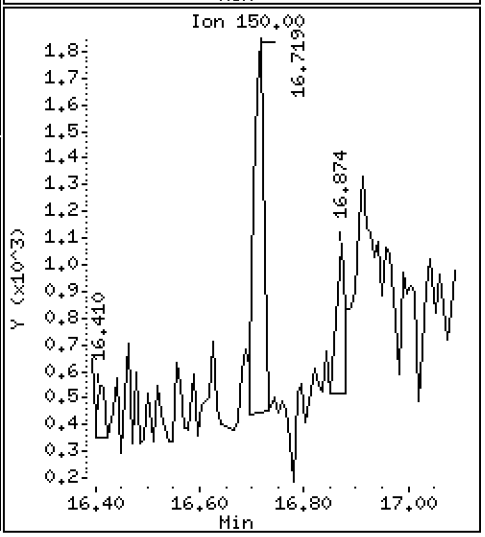


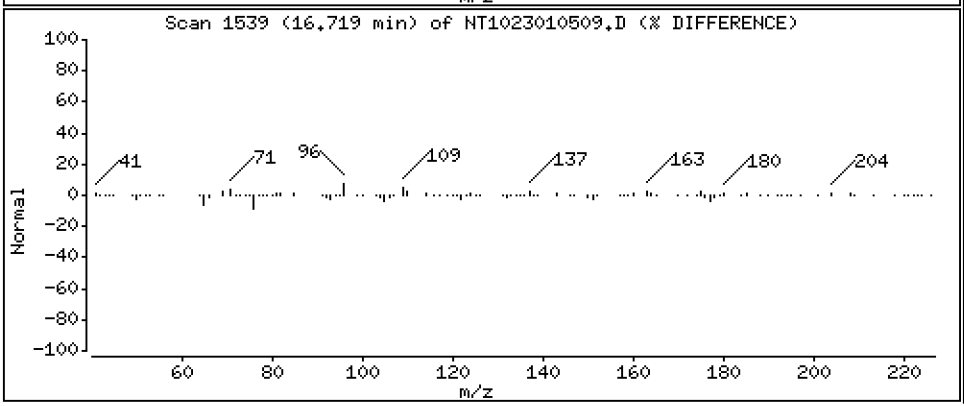












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

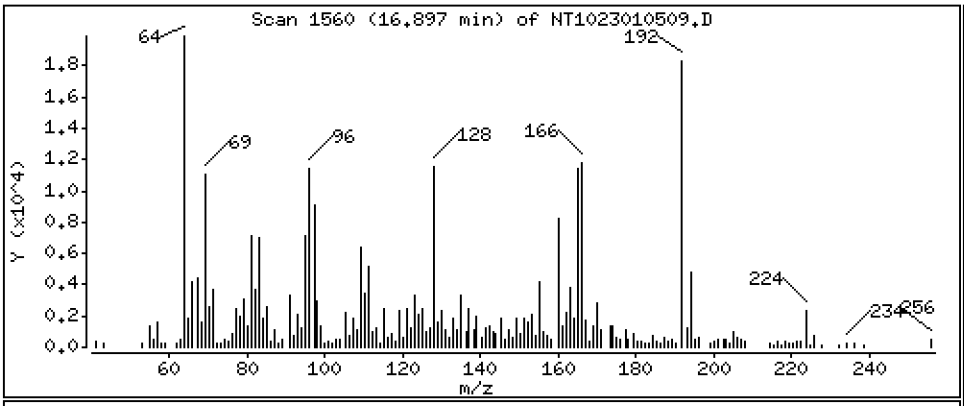
Operator: VTS

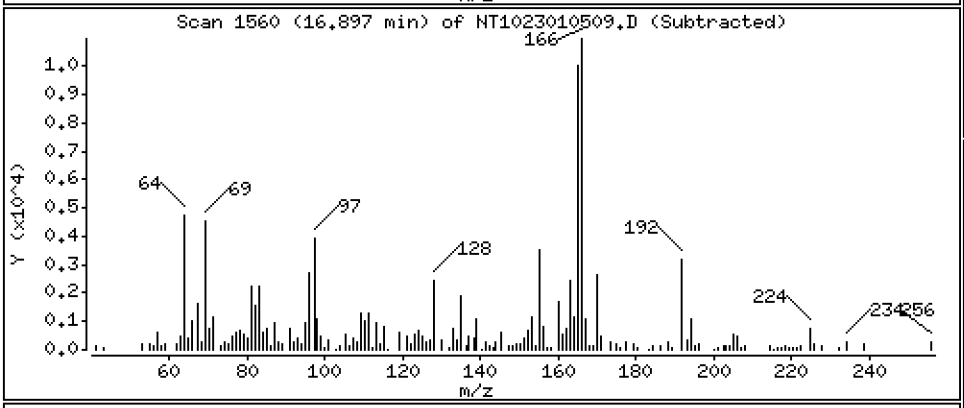
Column phase: ZB-5msi

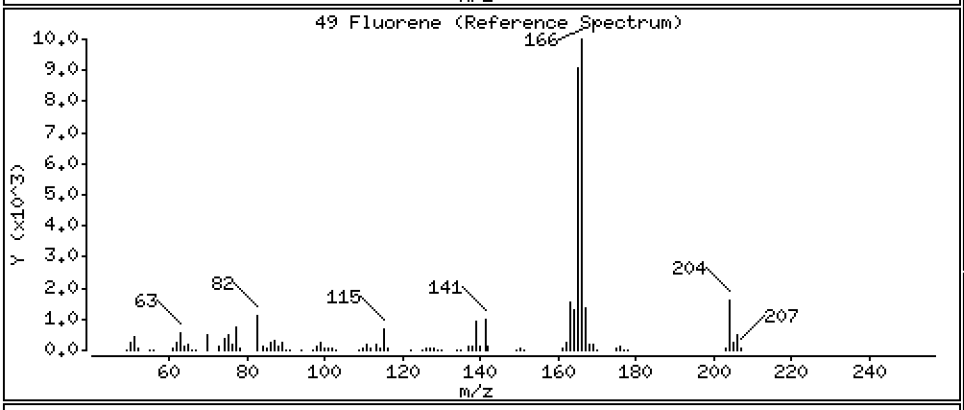
Column diameter: 0.25

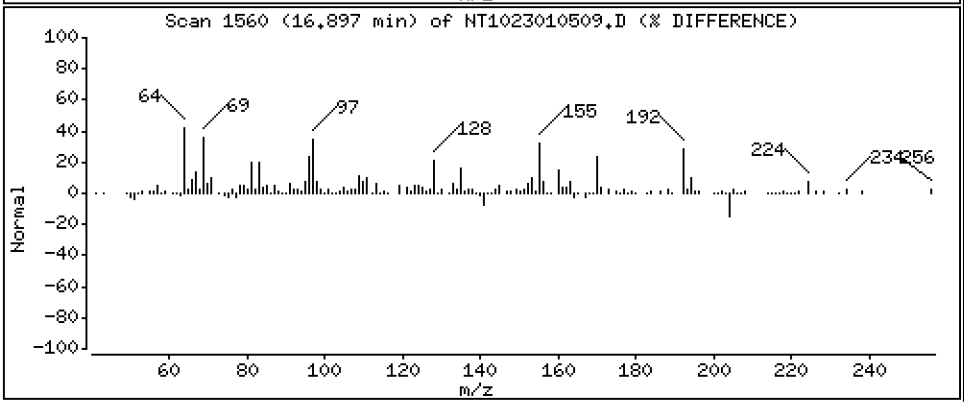
49 Fluorene

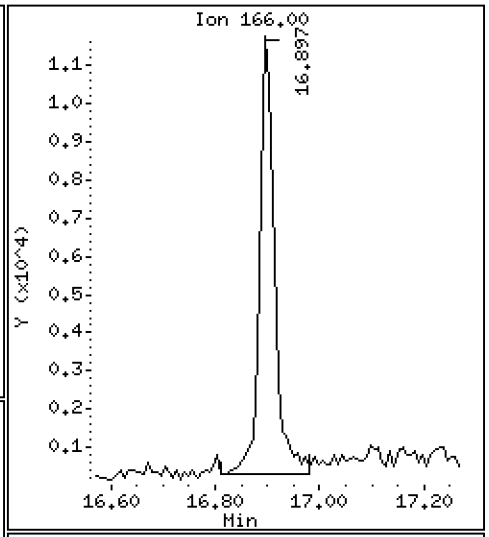
Concentration: 0.3328 ug/mL

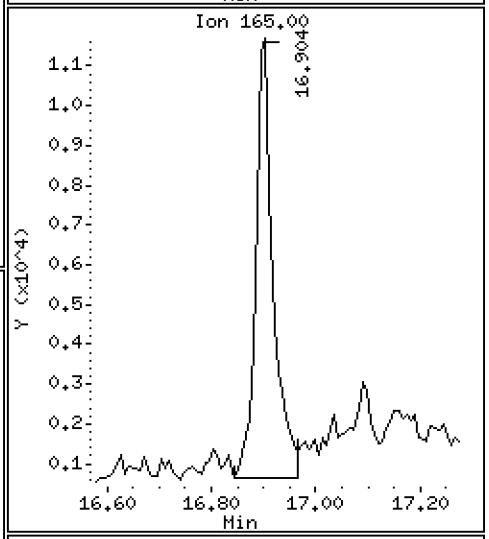


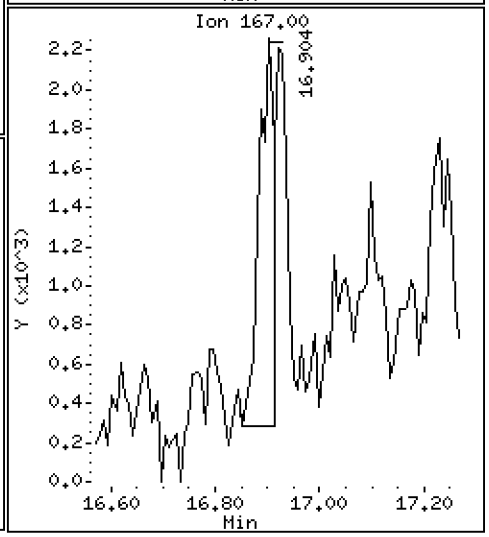












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

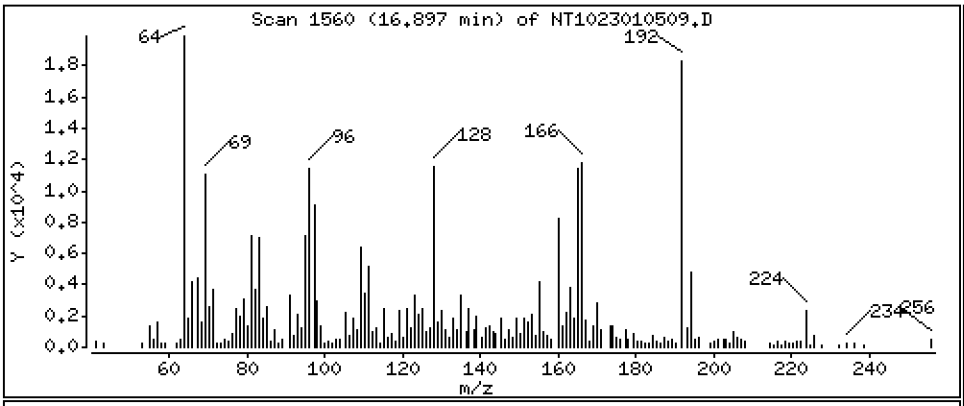
Operator: VTS

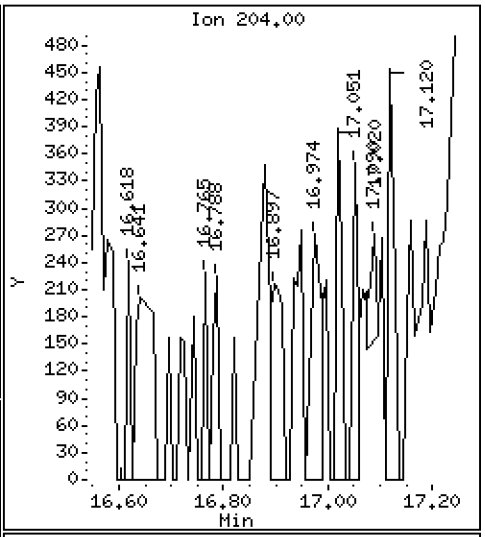
Column phase: ZB-5msi

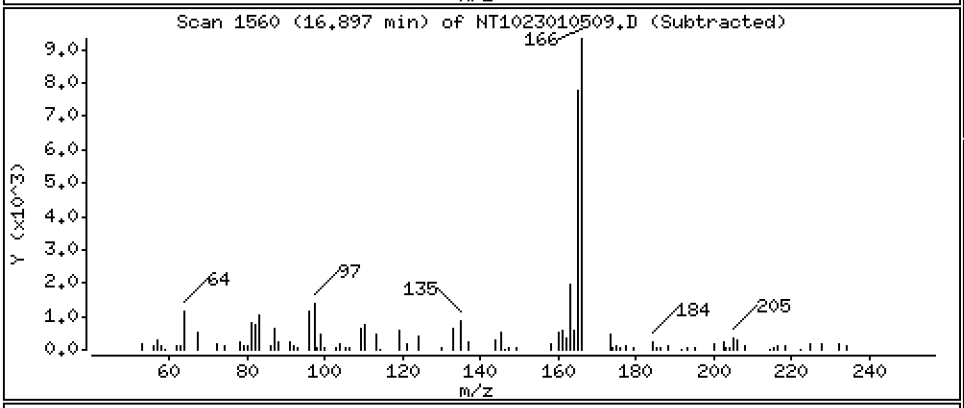
Column diameter: 0.25

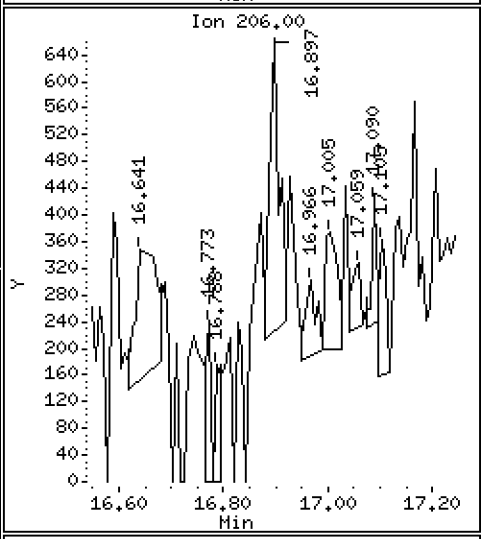
51 4-Chlorophenyl-phenylether

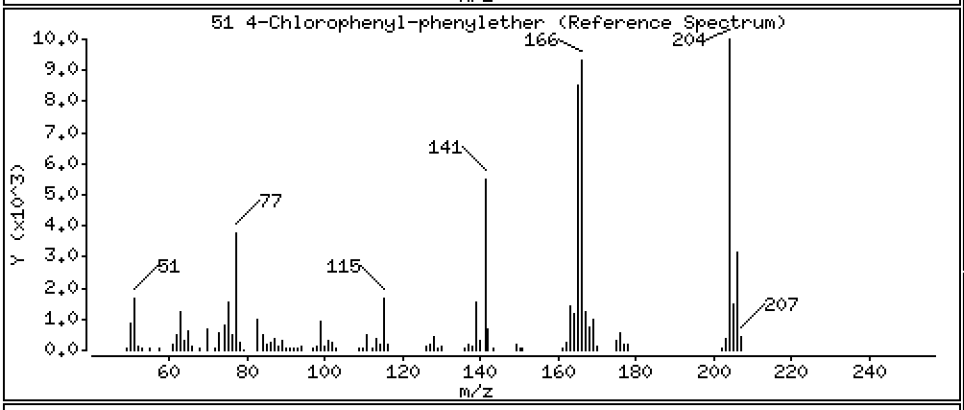
Concentration: 0.01622 ug/mL

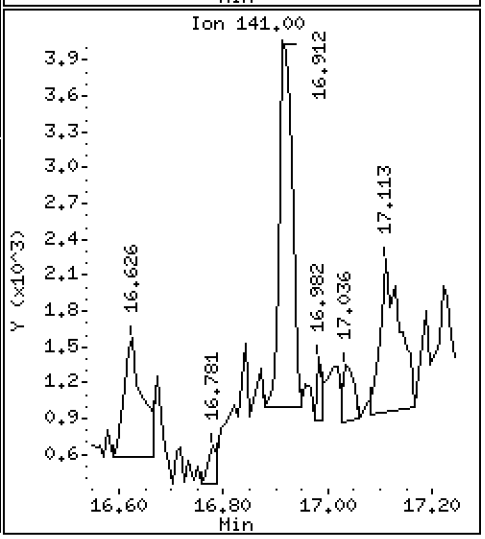


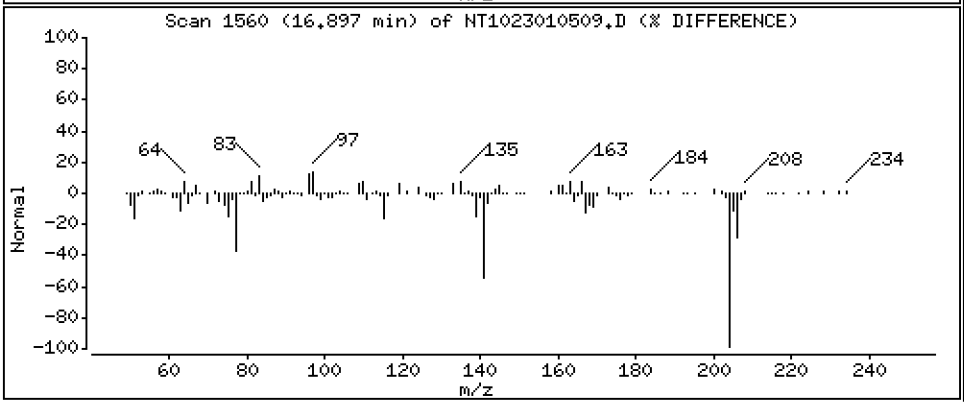












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

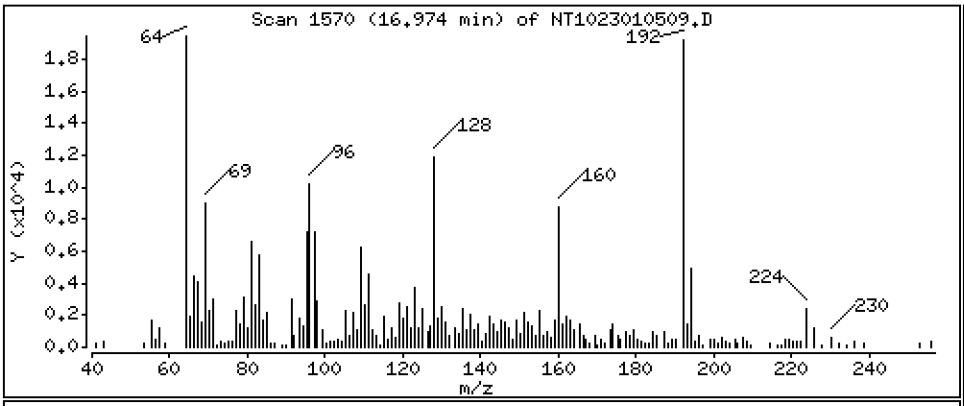
Operator: VTS

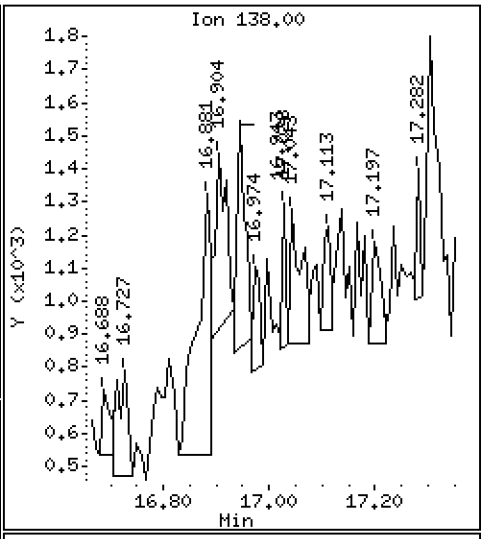
Column phase: ZB-5msi

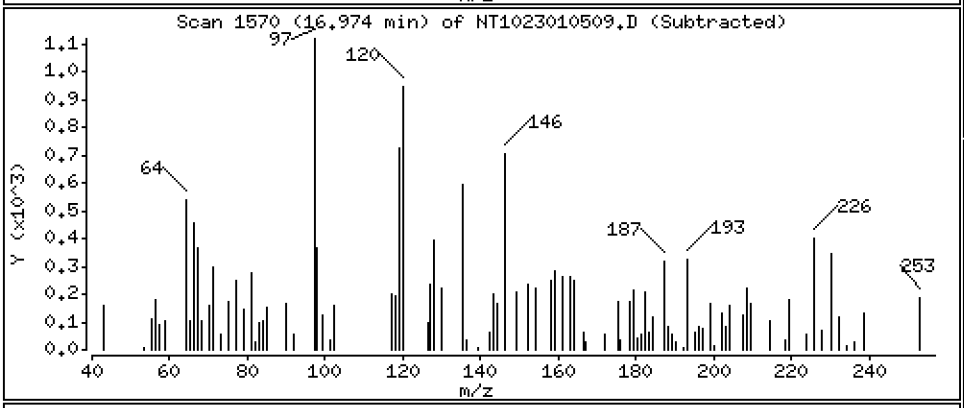
Column diameter: 0.25

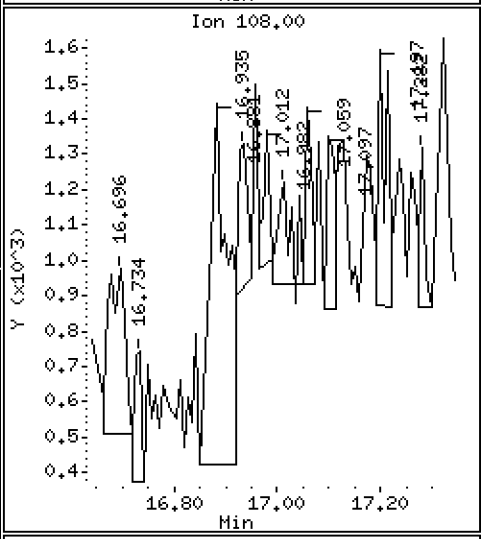
52 4-Nitroaniline

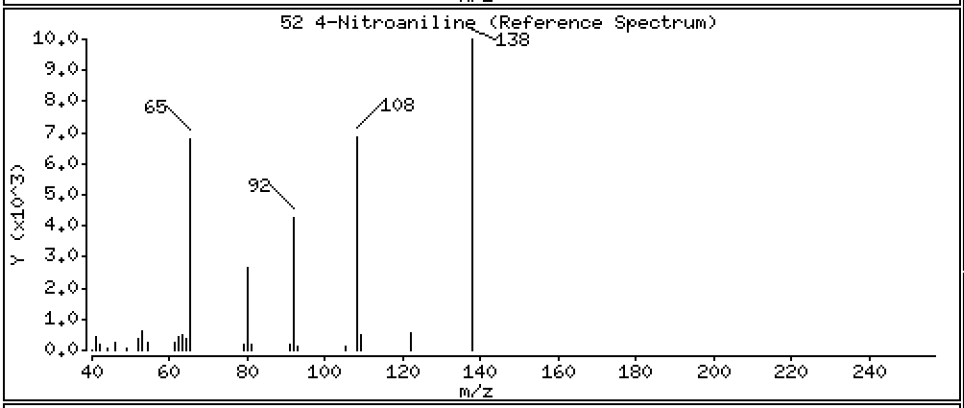
Concentration: 0.02000 ug/mL

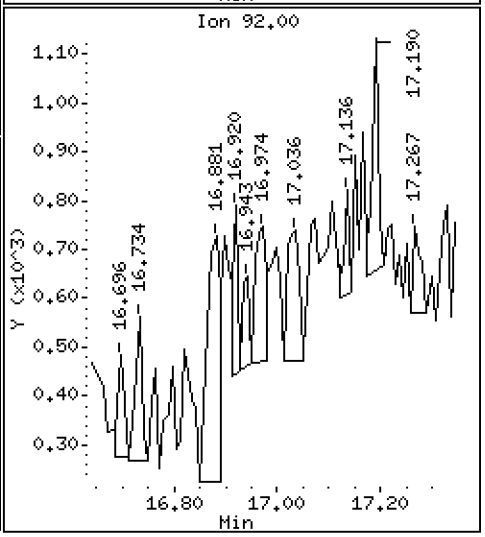


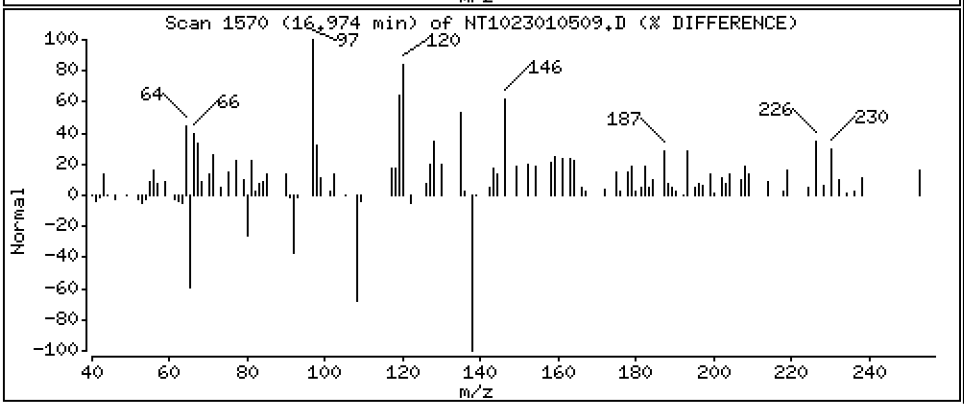












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

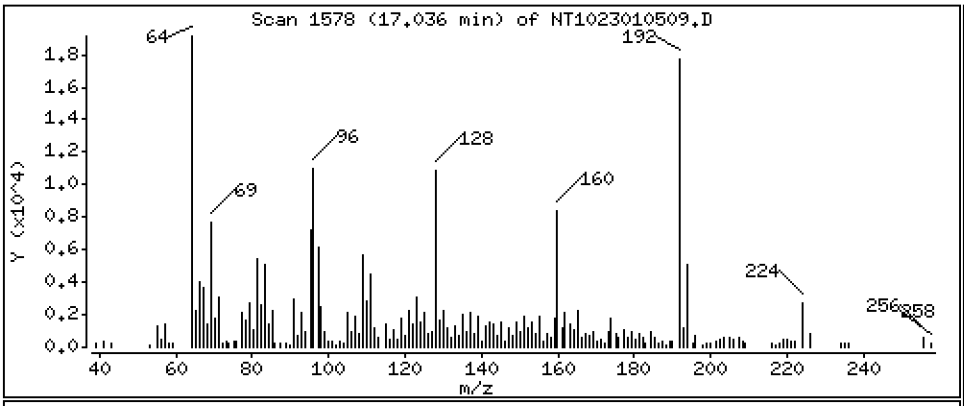
Operator: VTS

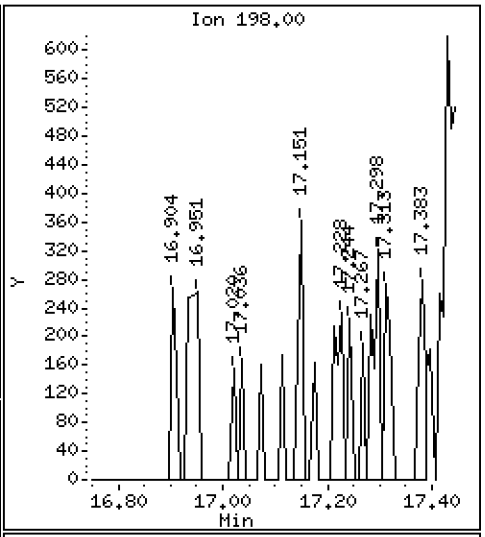
Column phase: ZB-5msi

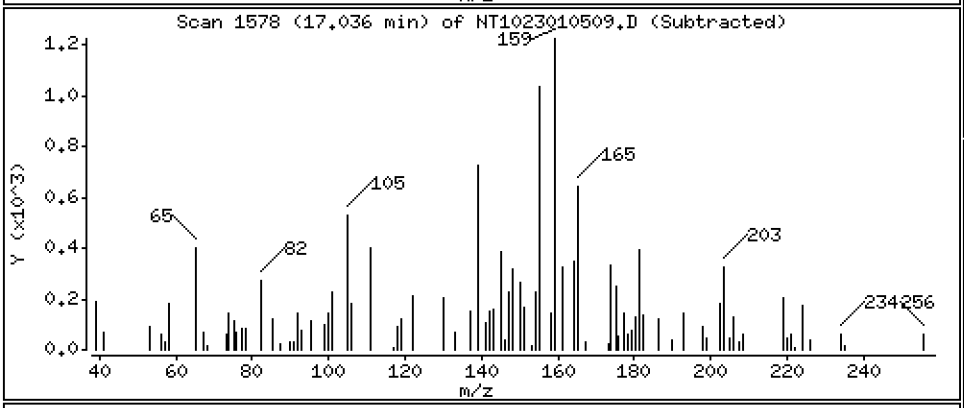
Column diameter: 0.25

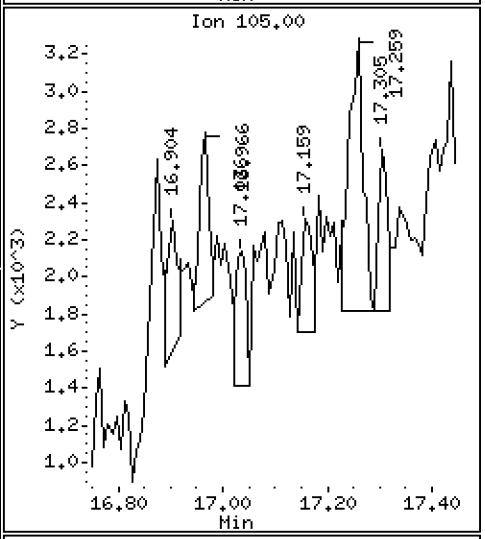
53 4,6-Dinitro-2-methylphenol

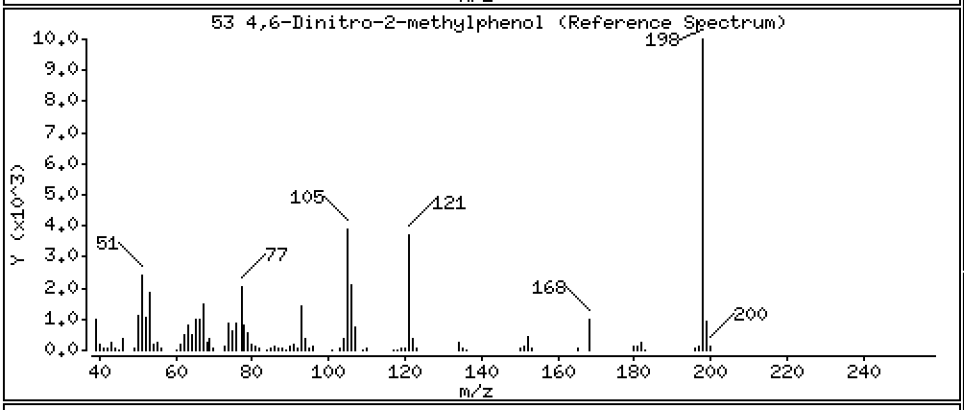
Concentration: 0.009684 ug/mL

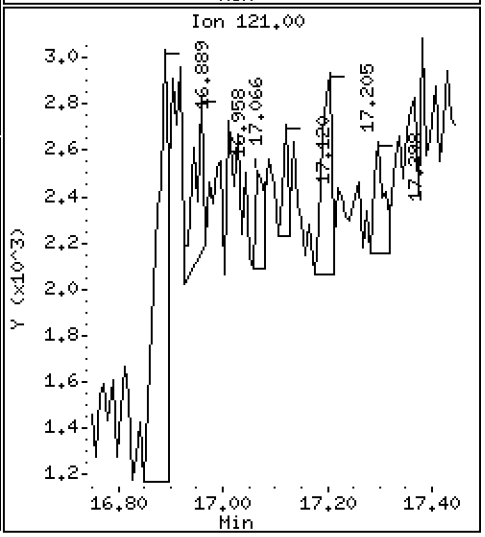


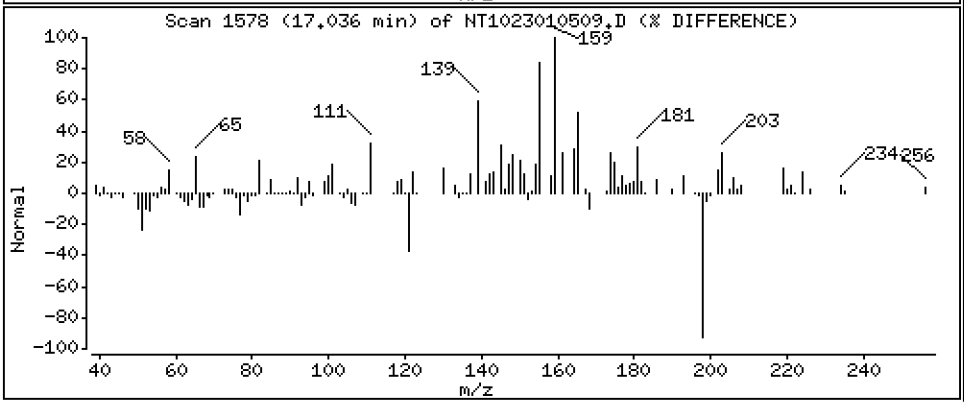












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

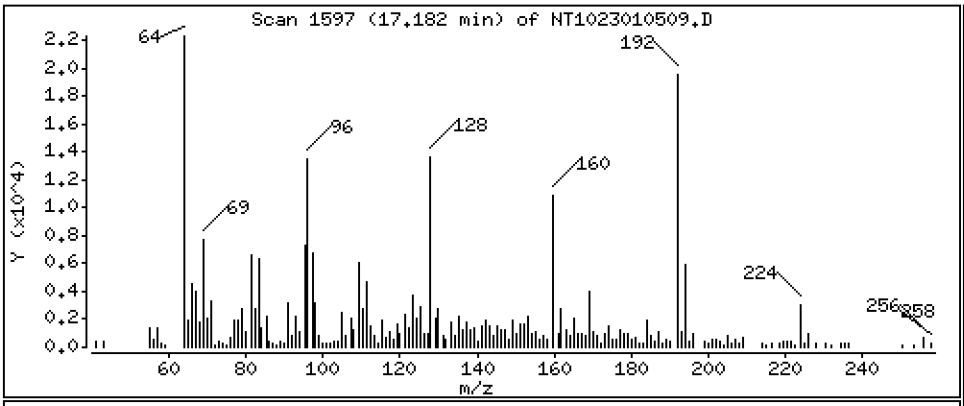
Operator: VTS

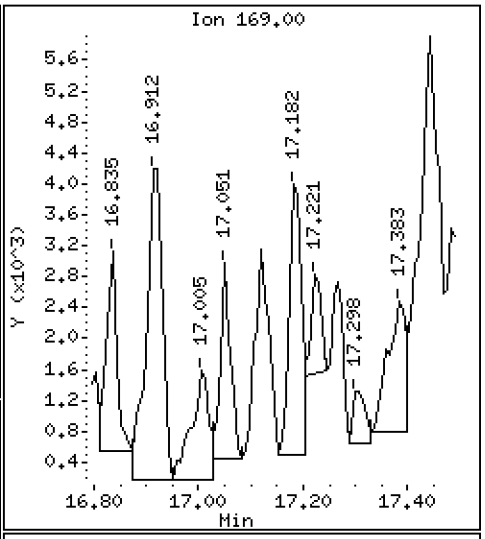
Column phase: ZB-5msi

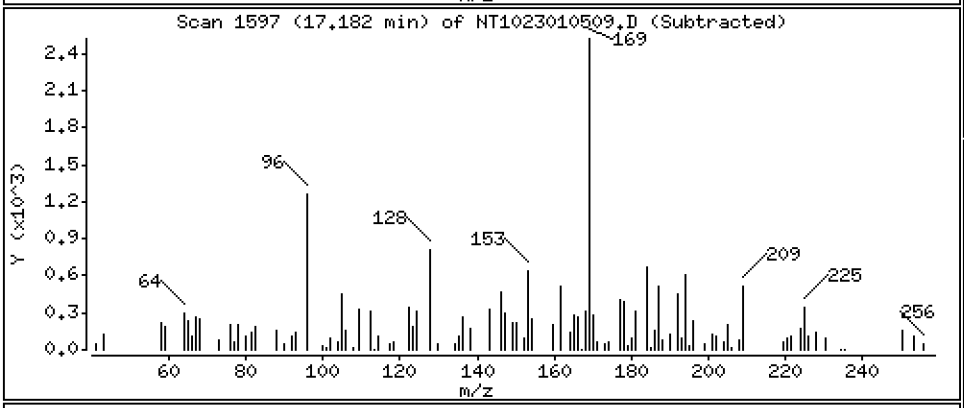
Column diameter: 0.25

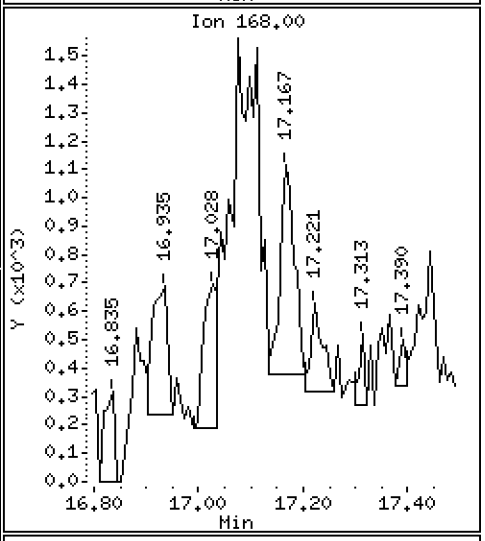
54 N-Nitrosodiphenylamine

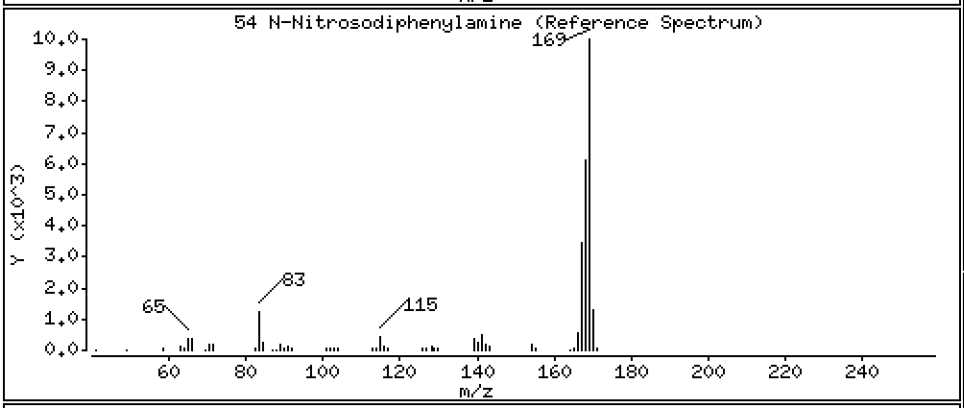
Concentration: 0.1739 ug/mL

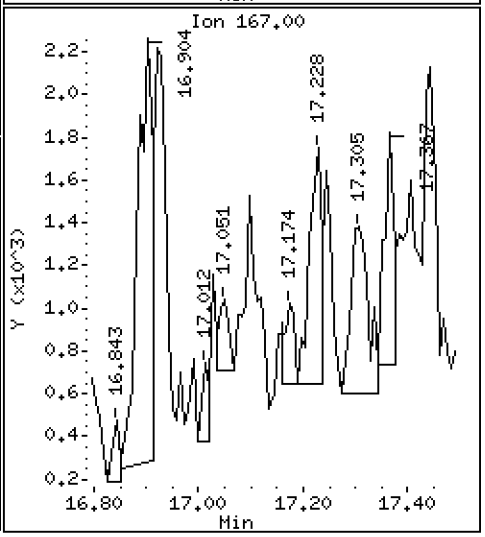


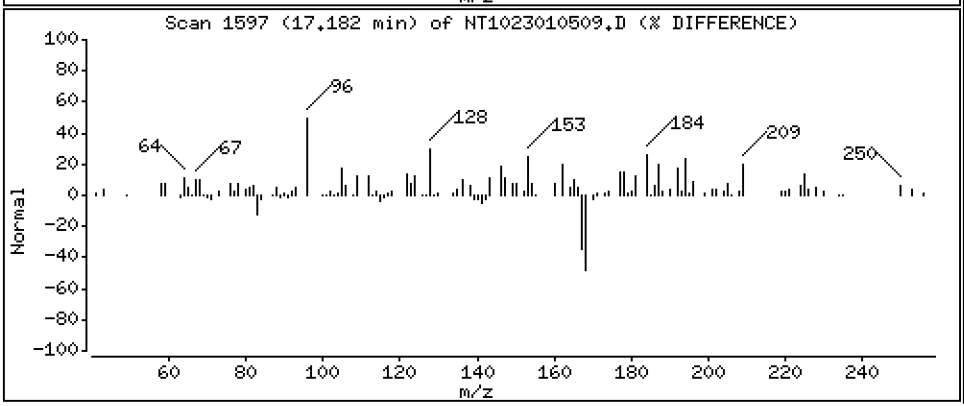












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

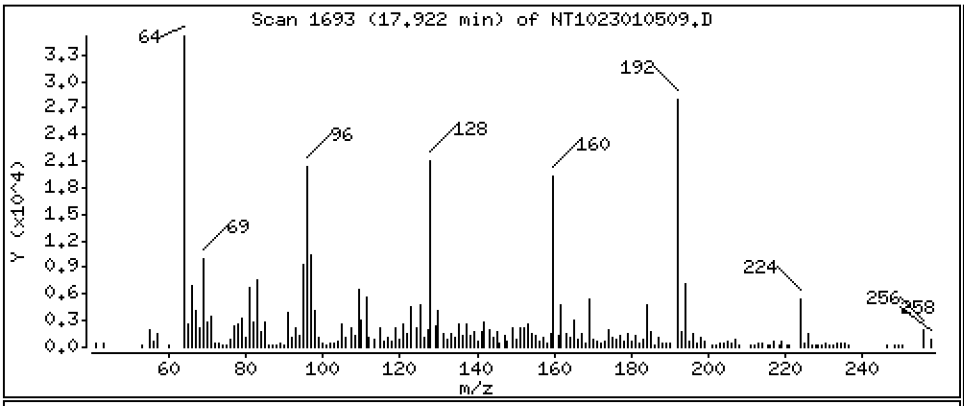
Operator: VTS

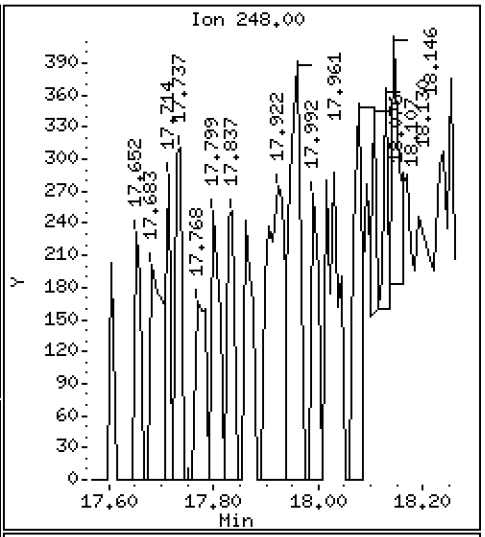
Column phase: ZB-5msi

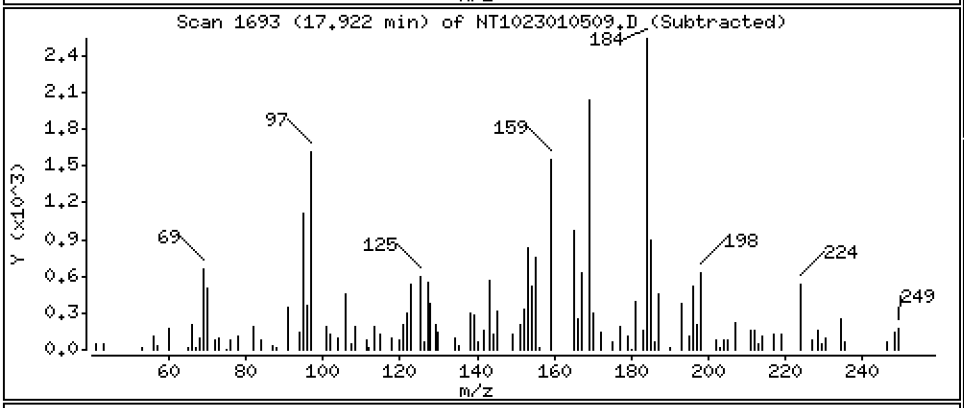
Column diameter: 0.25

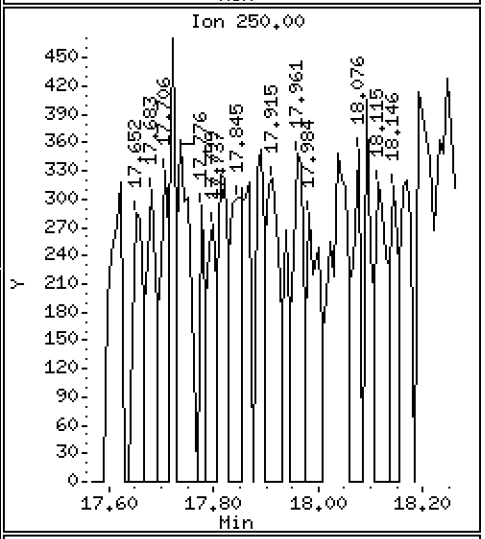
56 4-Bromophenyl-phenylether

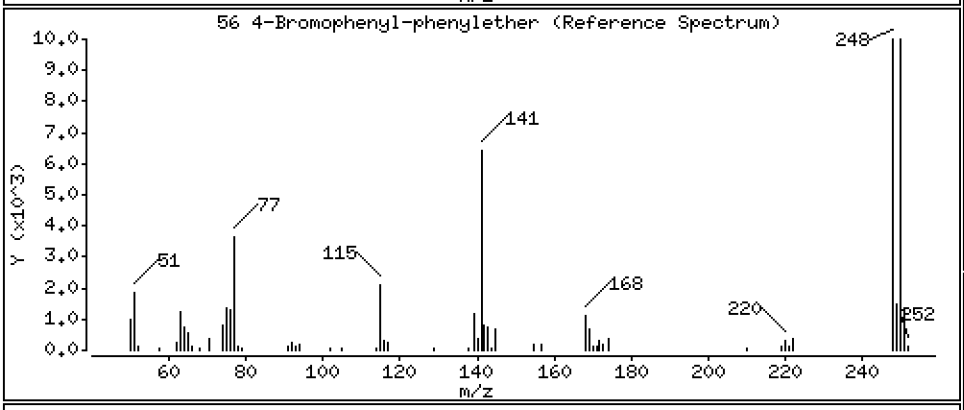
Concentration: 0.06806 ug/mL

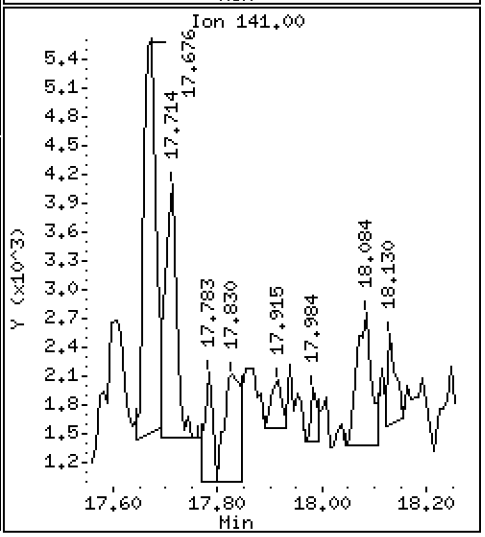


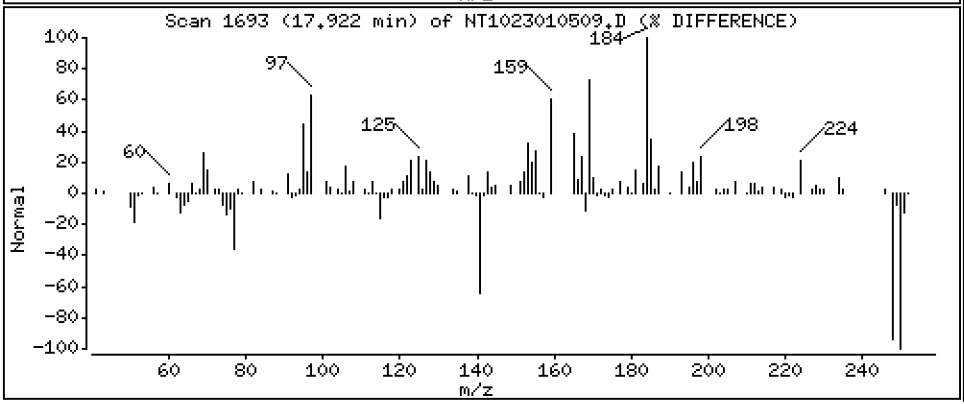












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

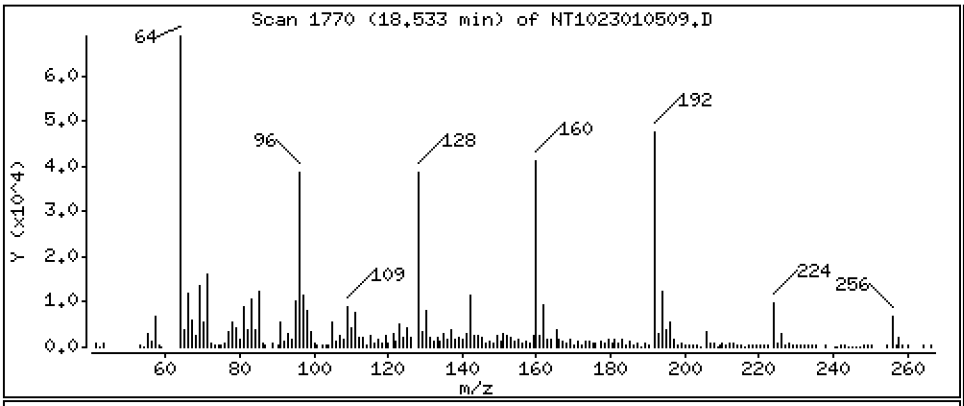
Operator: VTS

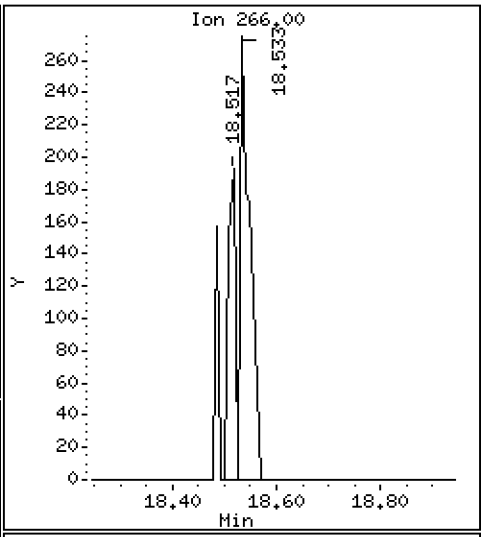
Column phase: ZB-5msi

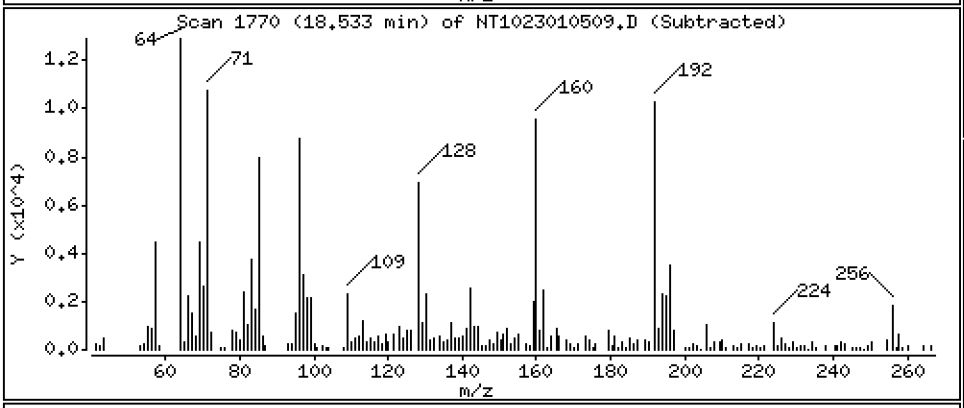
Column diameter: 0.25

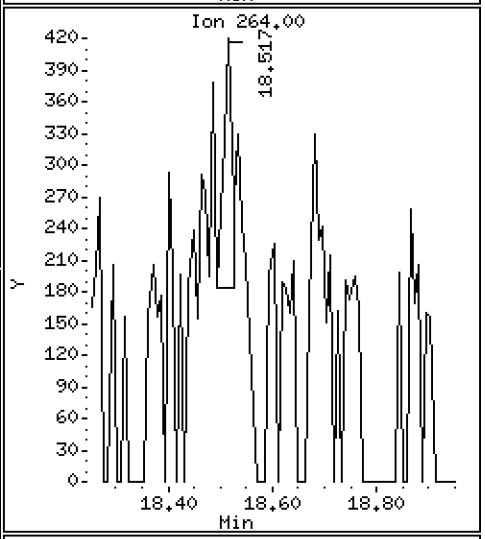
58 Pentachlorophenol

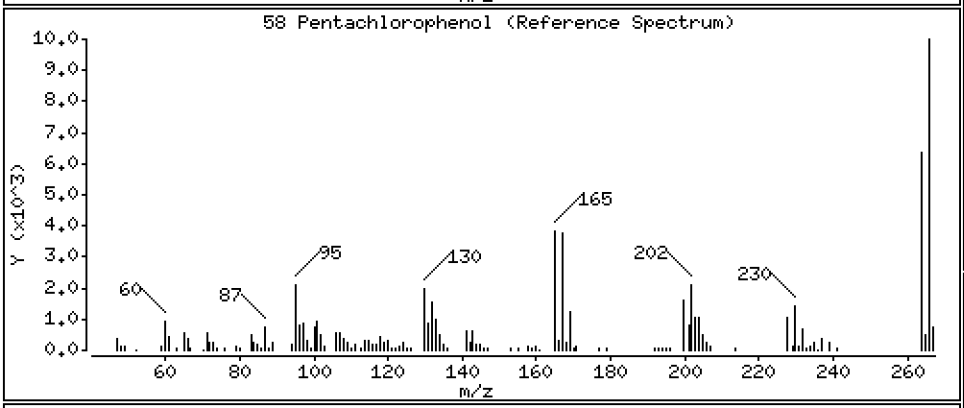
Concentration: 0.3158 ug/mL

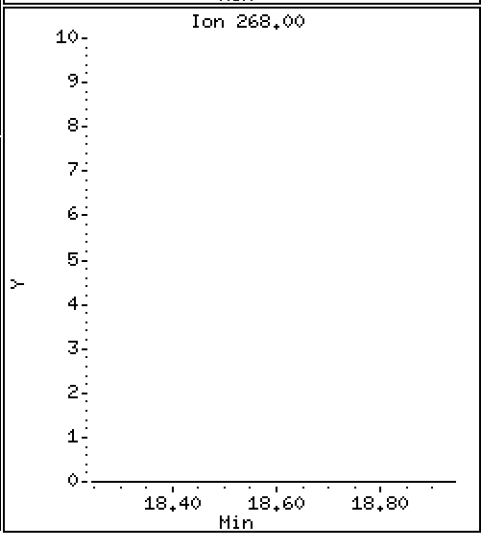


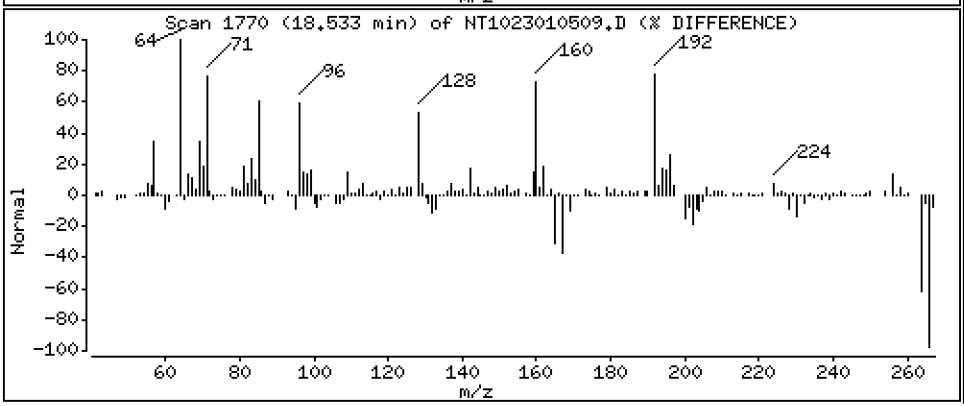












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

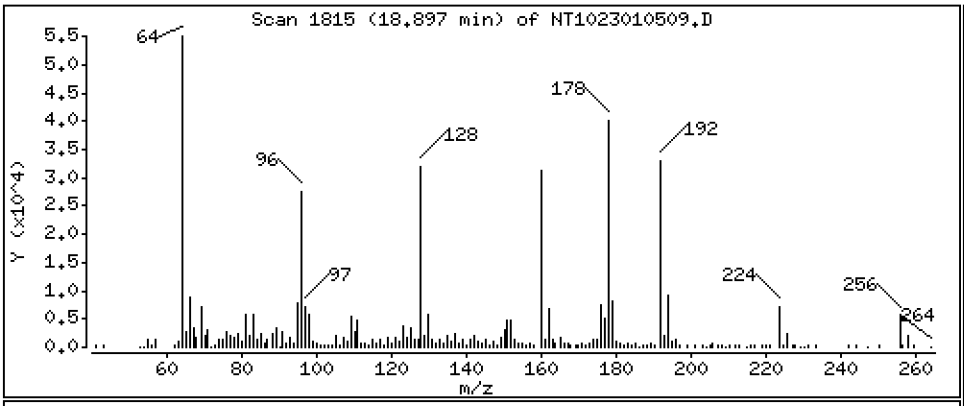
Operator: VTS

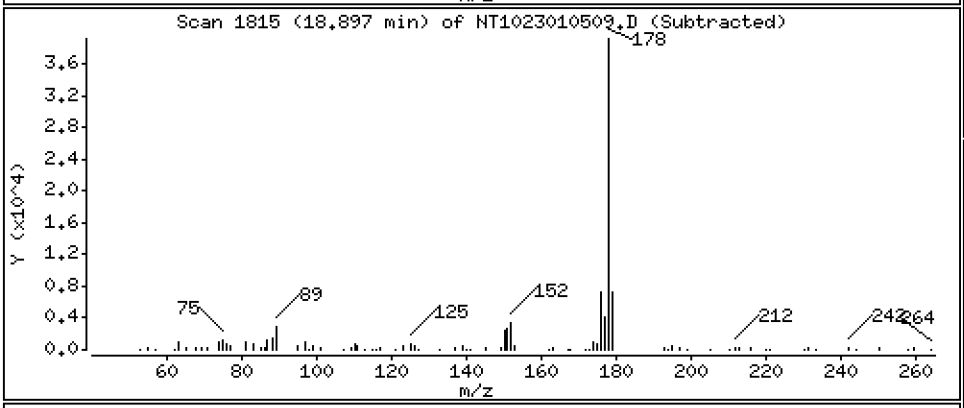
Column phase: ZB-5msi

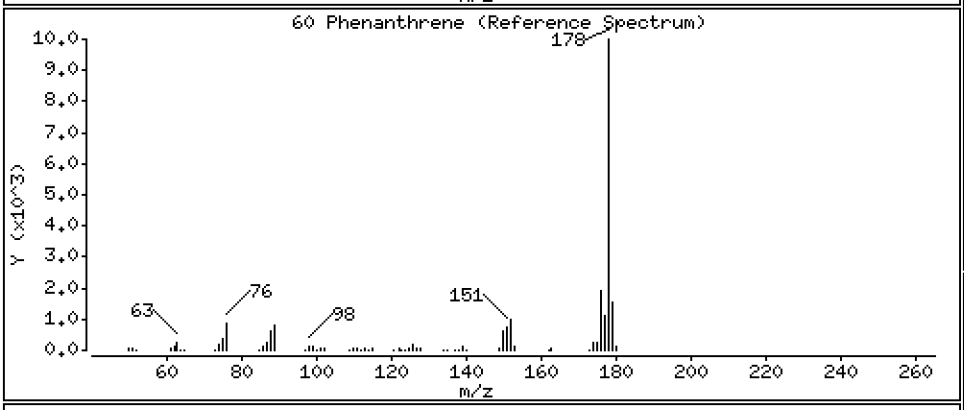
Column diameter: 0.25

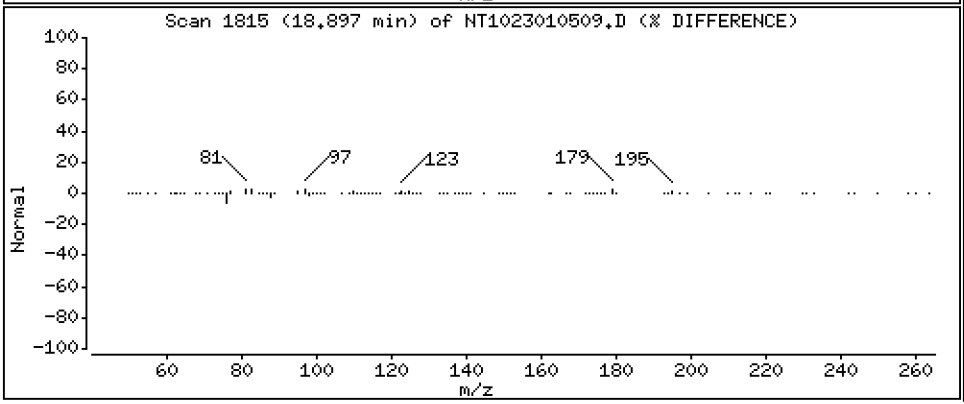
60 Phenanthrene

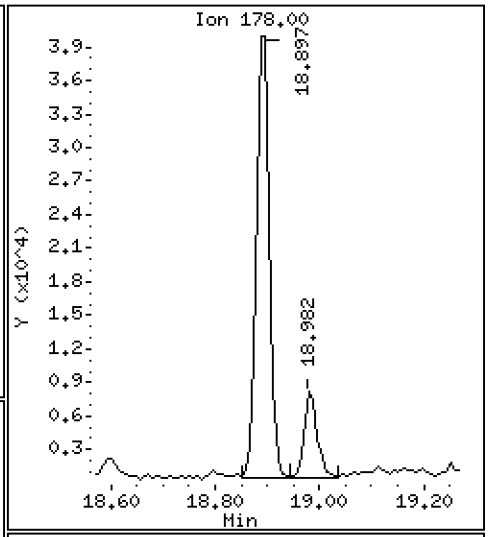
Concentration: 1.515 ug/mL

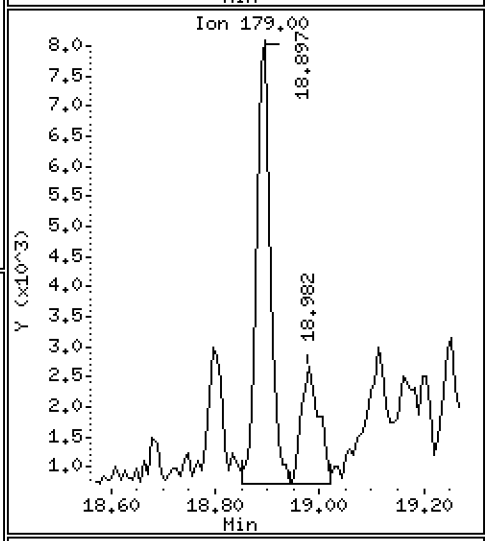


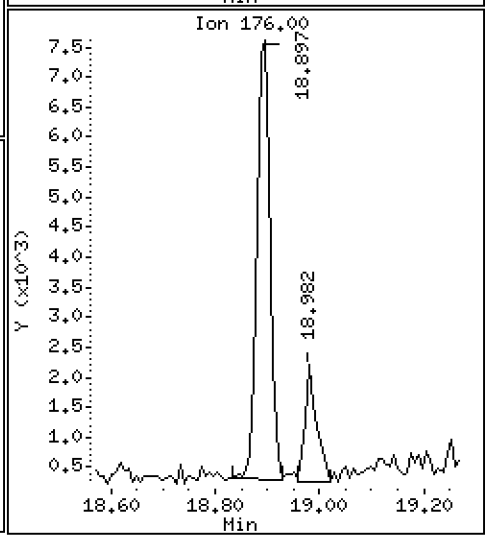












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

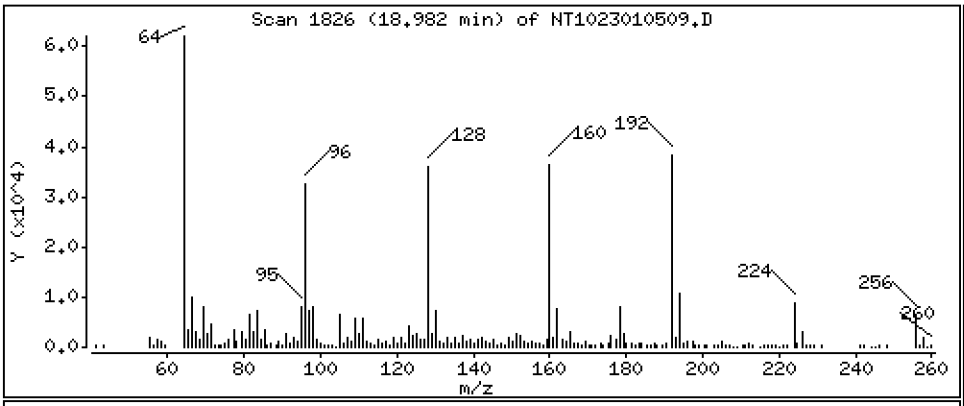
Operator: VTS

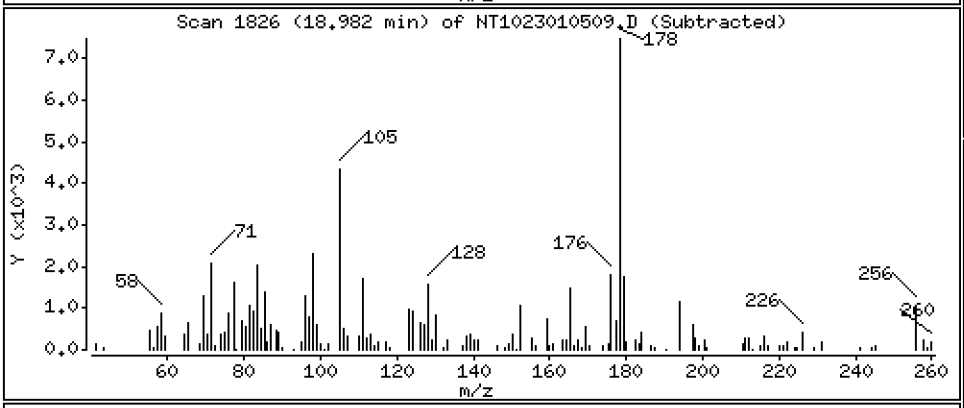
Column phase: ZB-5msi

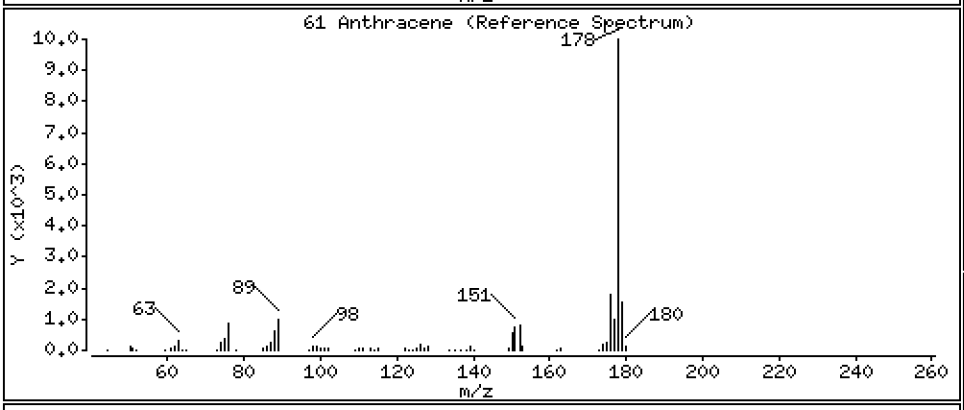
Column diameter: 0.25

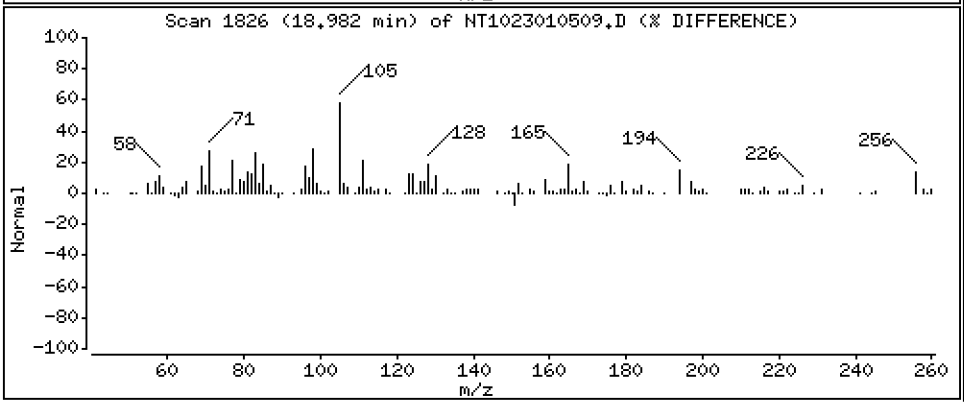
61 Anthracene

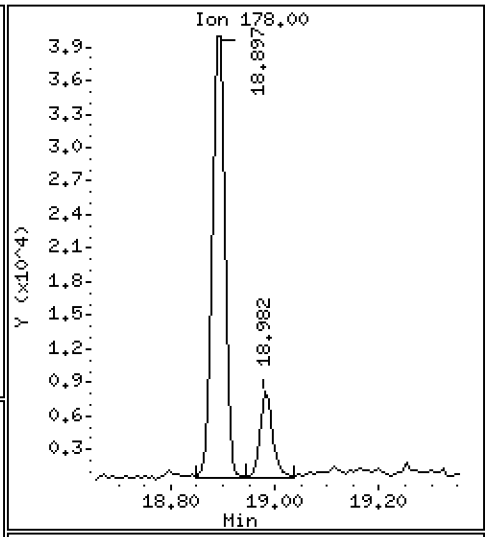
Concentration: 0.2929 ug/mL

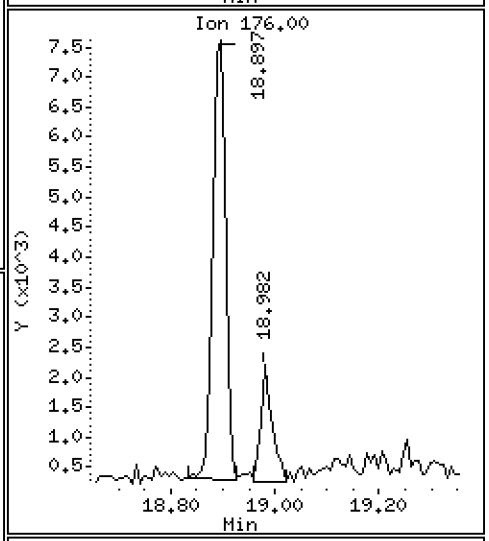


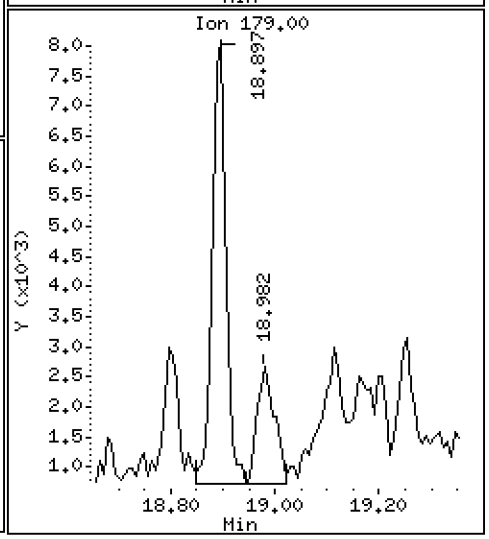












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

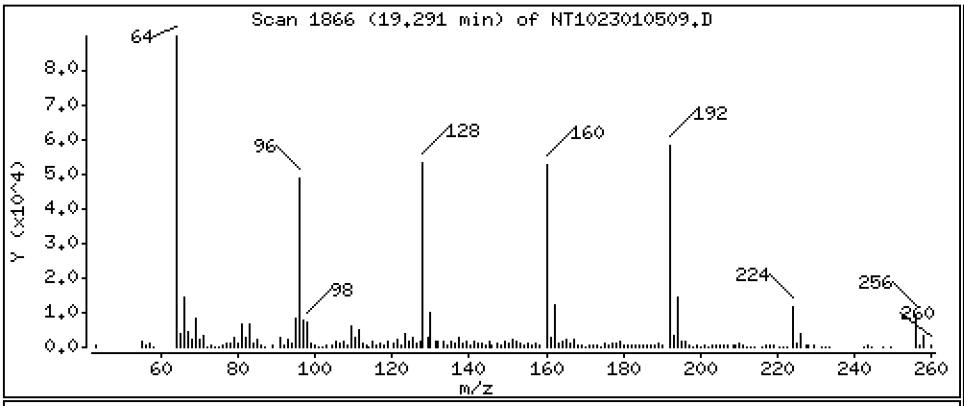
Operator: VTS

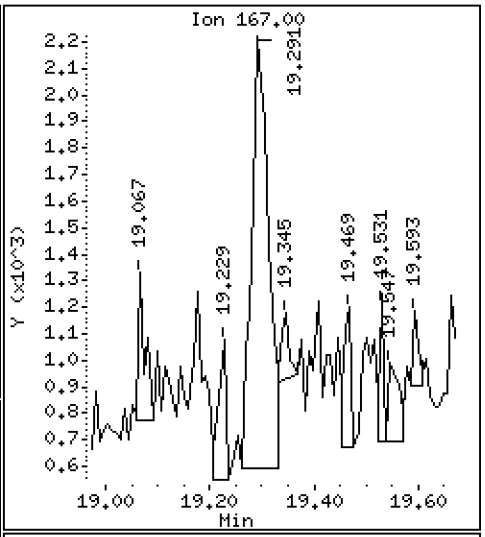
Column phase: ZB-5msi

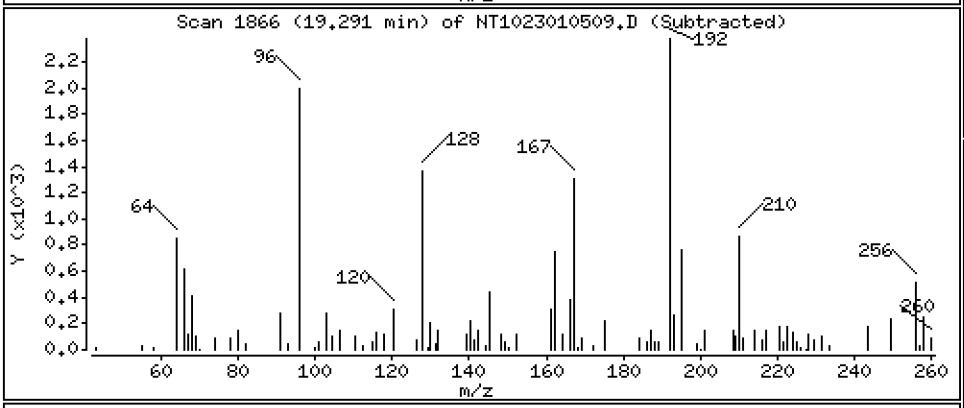
Column diameter: 0.25

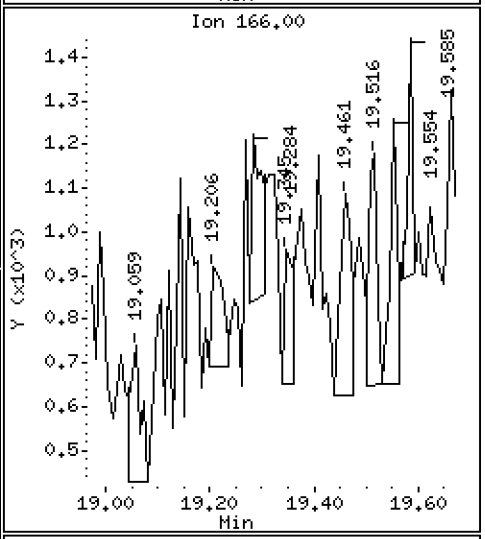
62 Carbazole

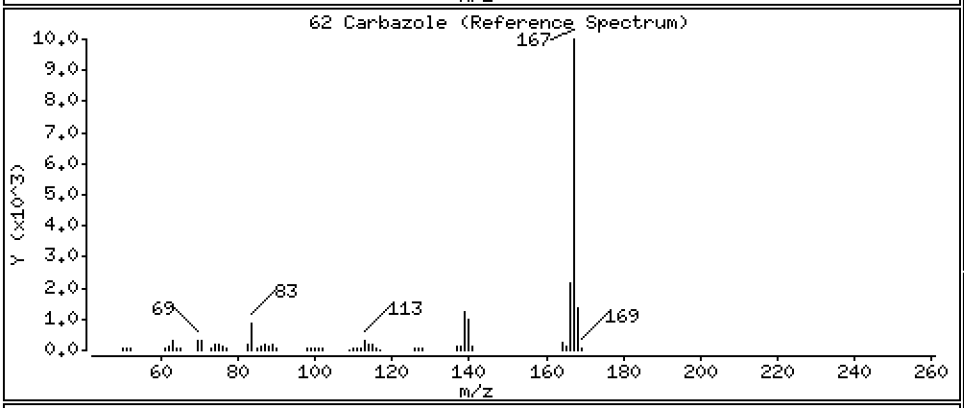
Concentration: 0.07714 ug/mL

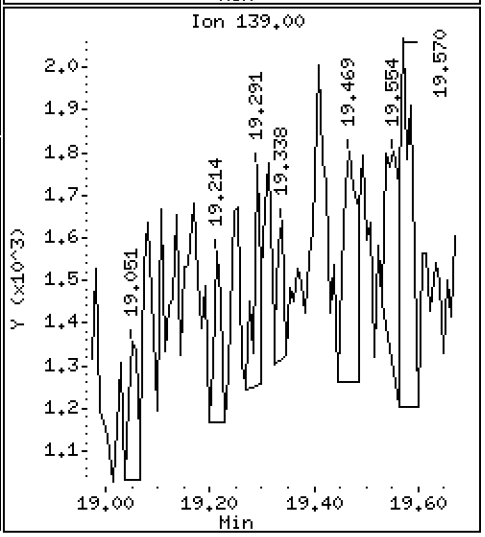


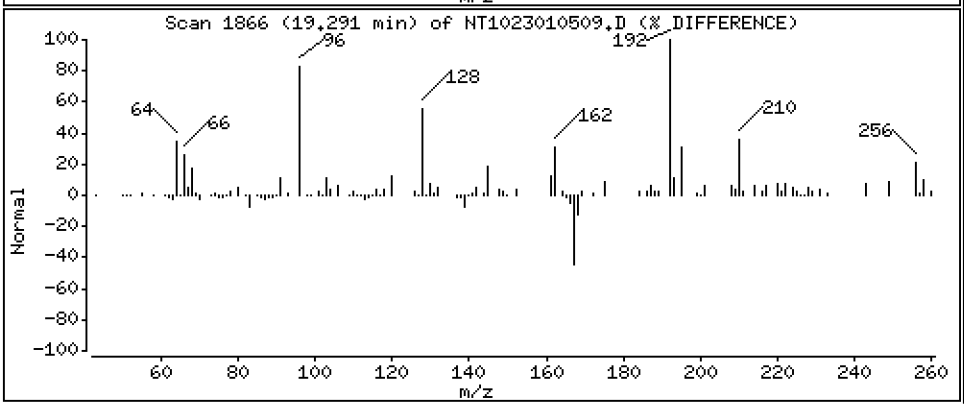












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

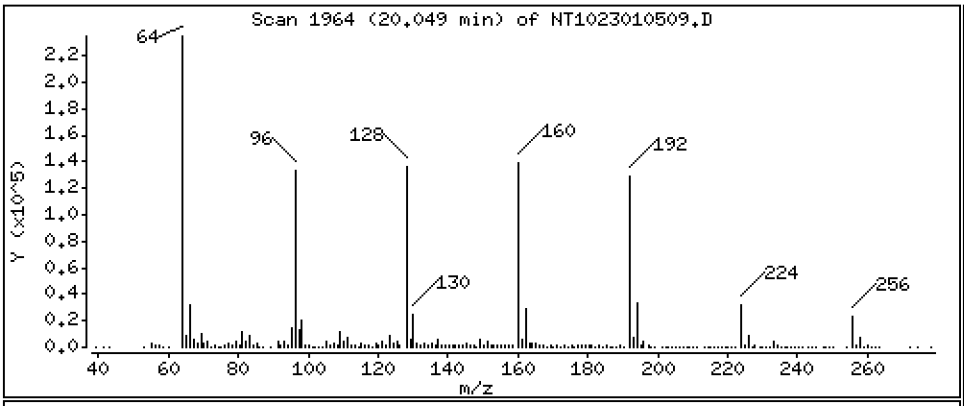
Operator: VTS

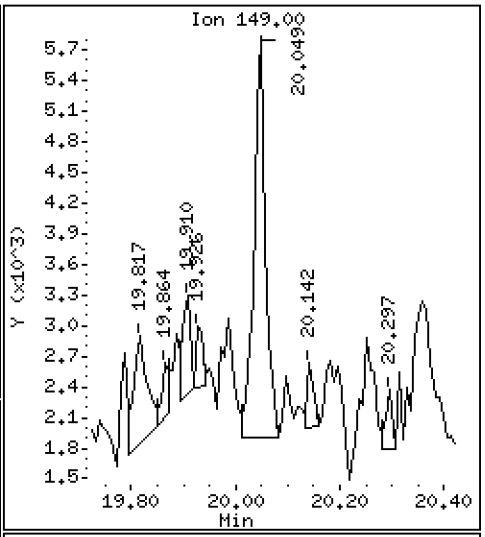
Column phase: ZB-5msi

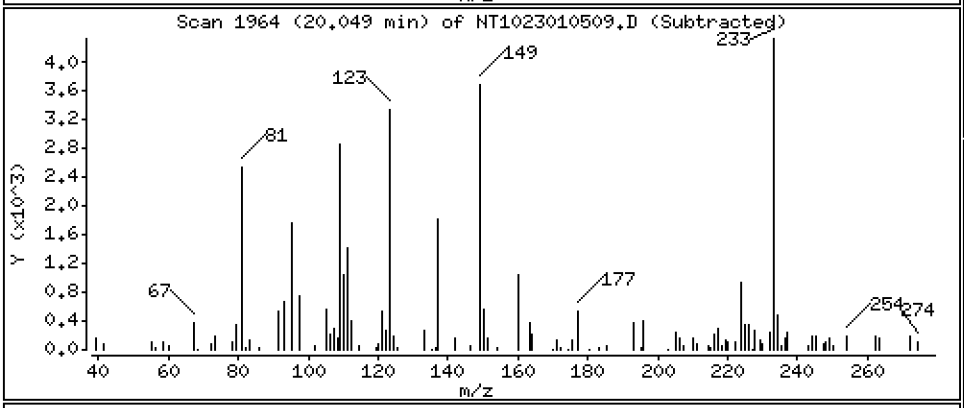
Column diameter: 0.25

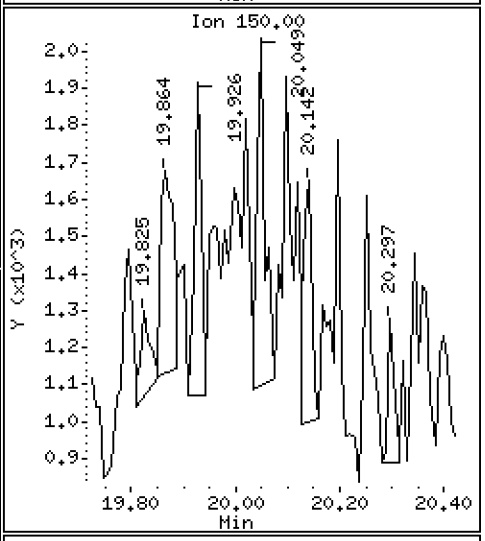
63 Di-n-butylphthalate

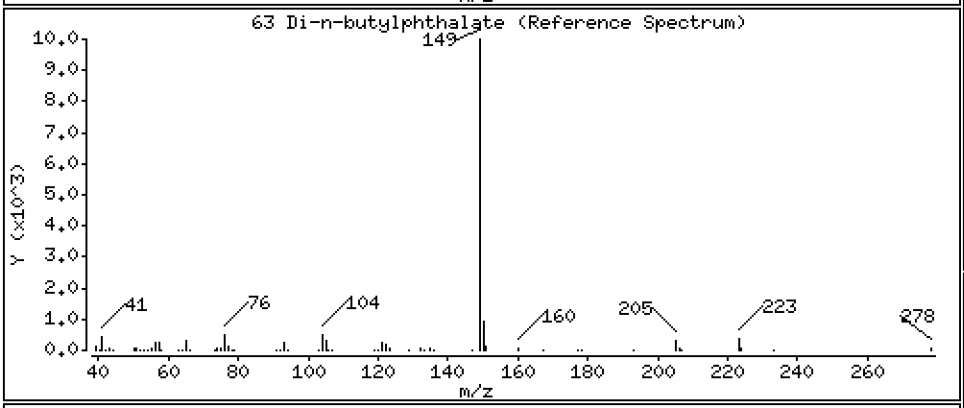
Concentration: 0.09544 ug/mL

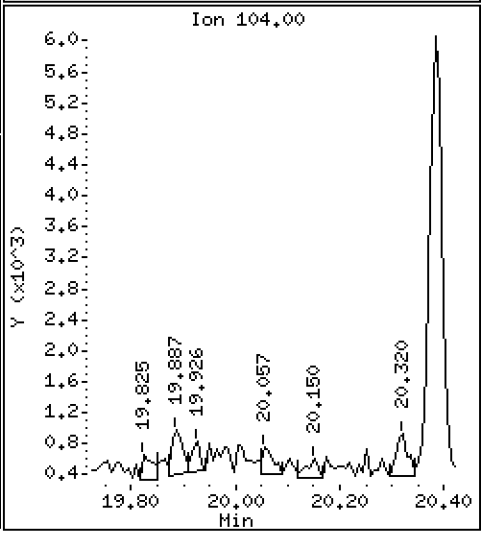


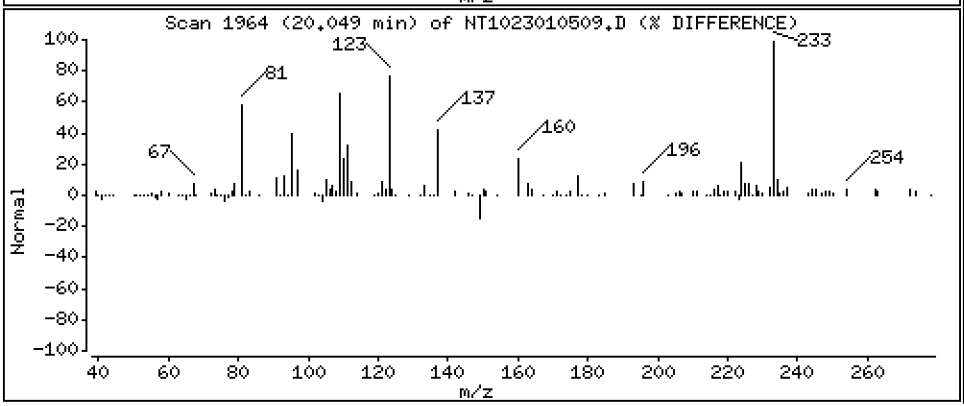












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

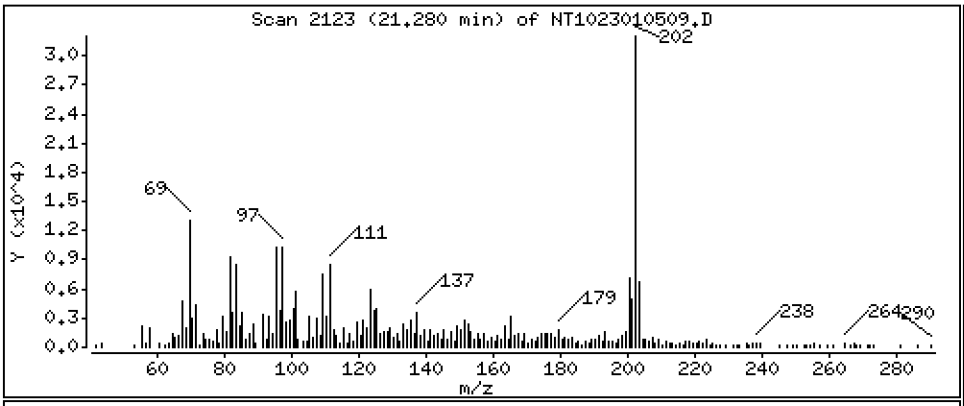
Operator: VTS

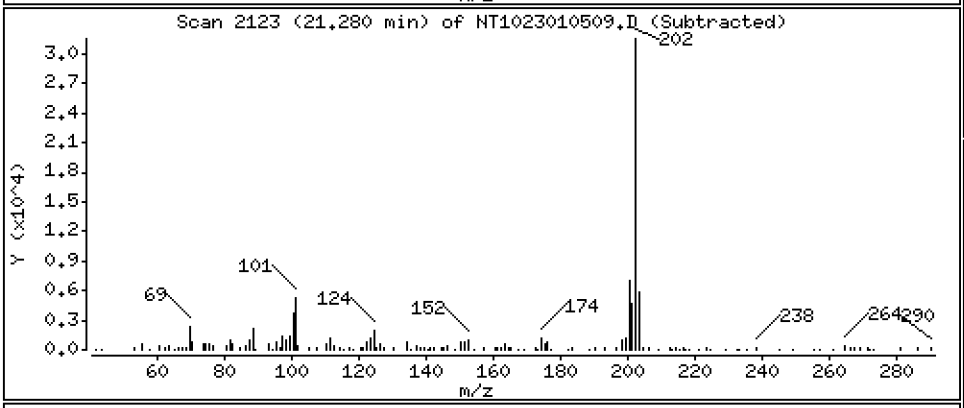
Column phase: ZB-5msi

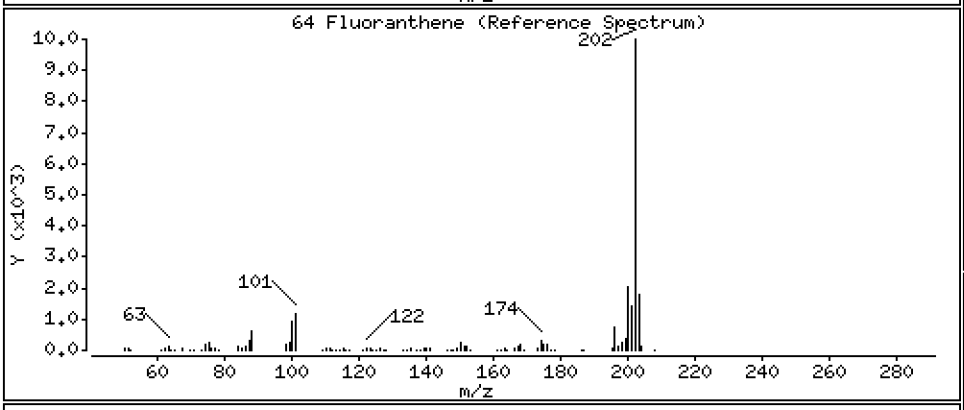
Column diameter: 0.25

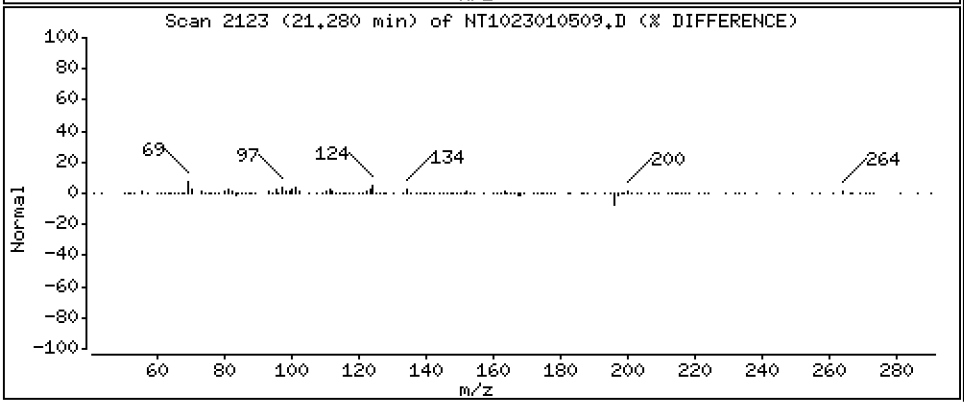
64 Fluoranthene

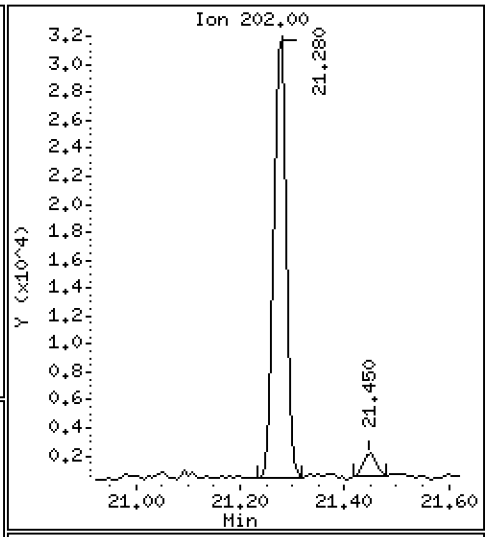
Concentration: 1.199 ug/mL

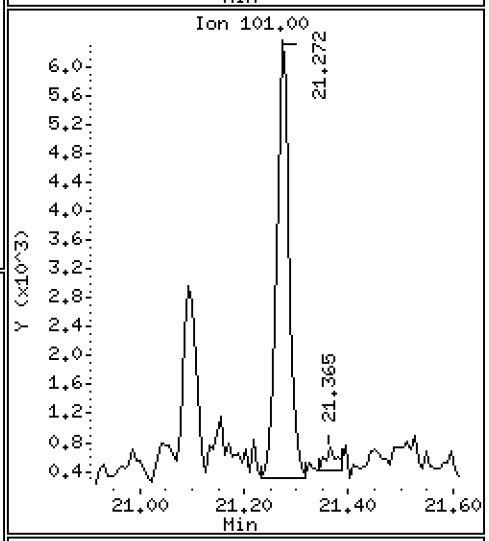


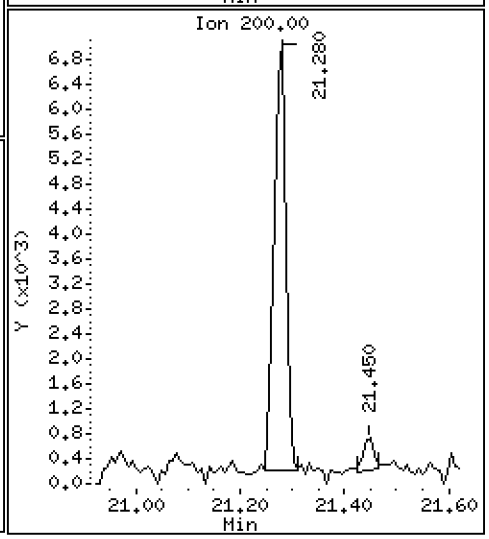












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

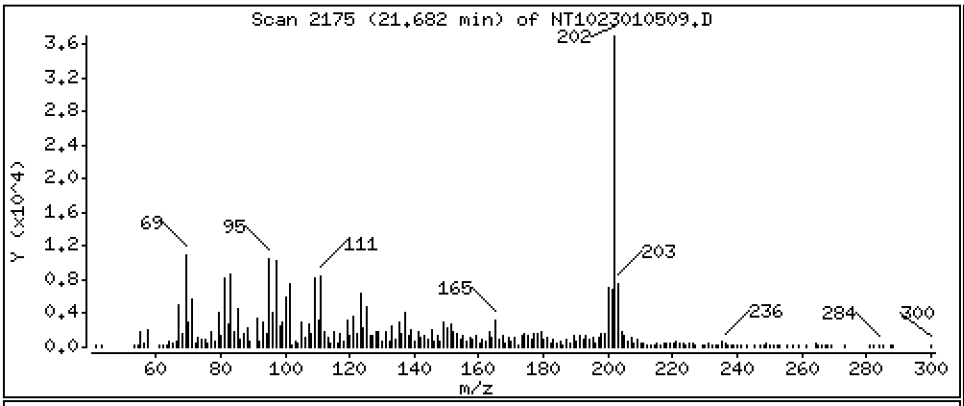
Operator: VTS

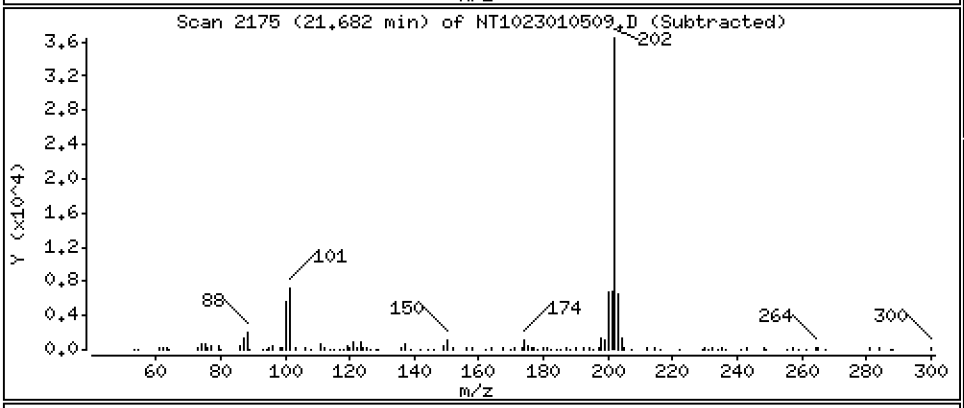
Column phase: ZB-5msi

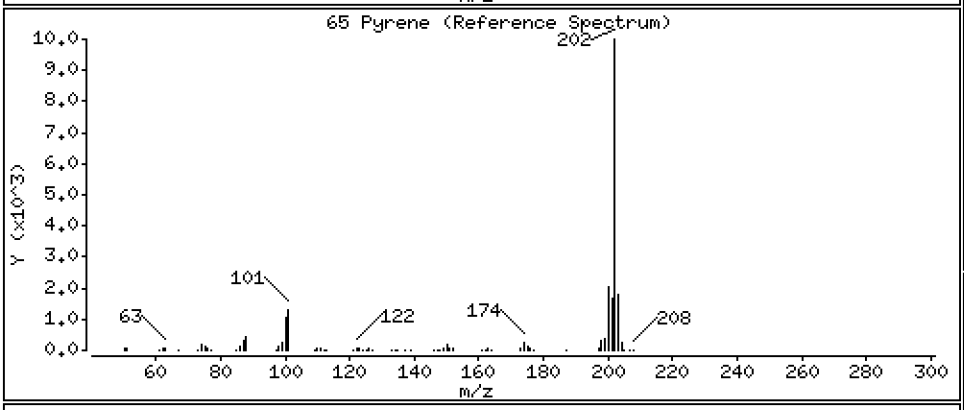
Column diameter: 0.25

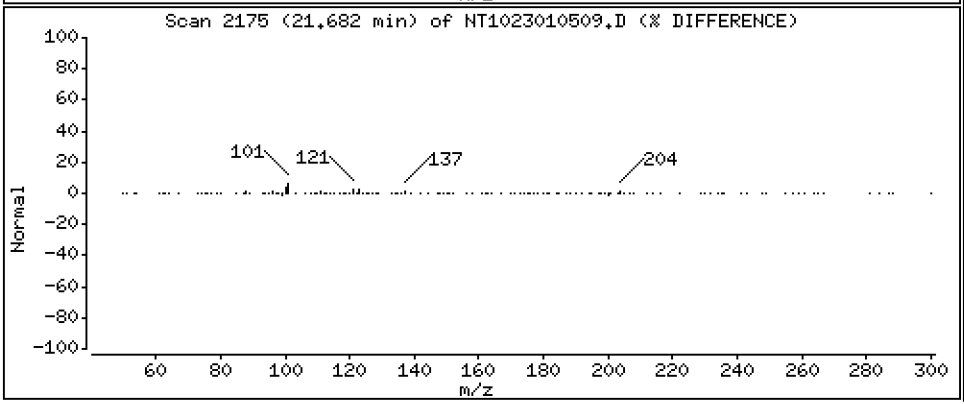
65 Pyrene

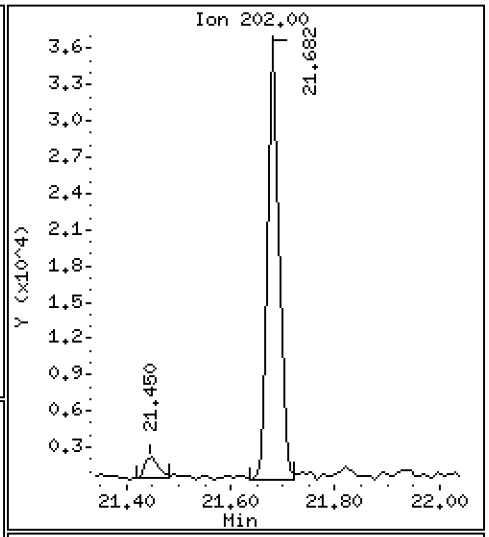
Concentration: 1.297 ug/mL

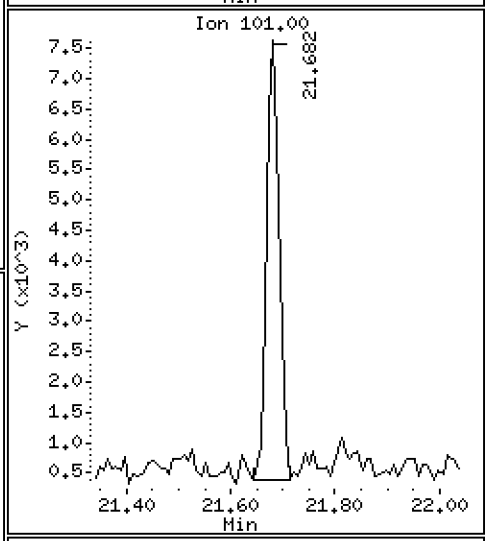


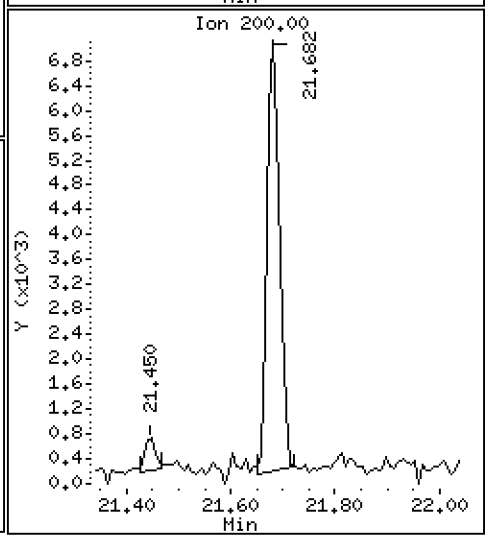












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

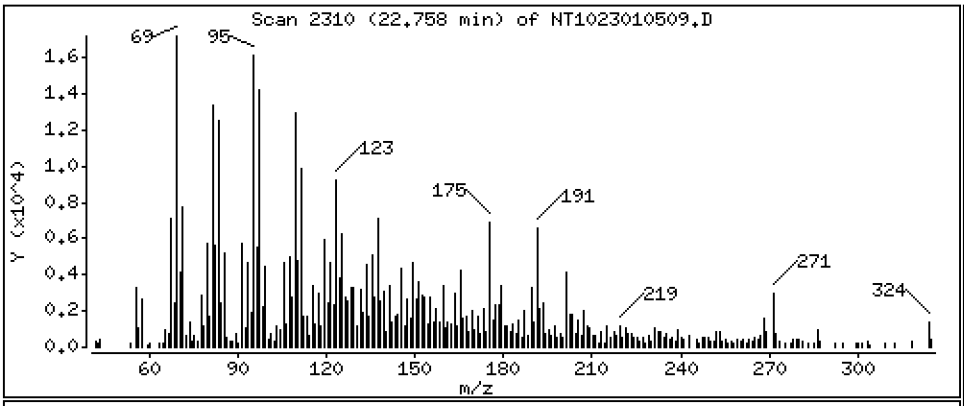
Operator: VTS

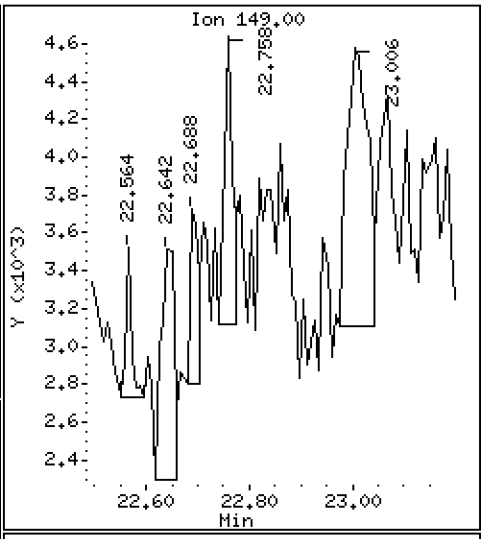
Column phase: ZB-5msi

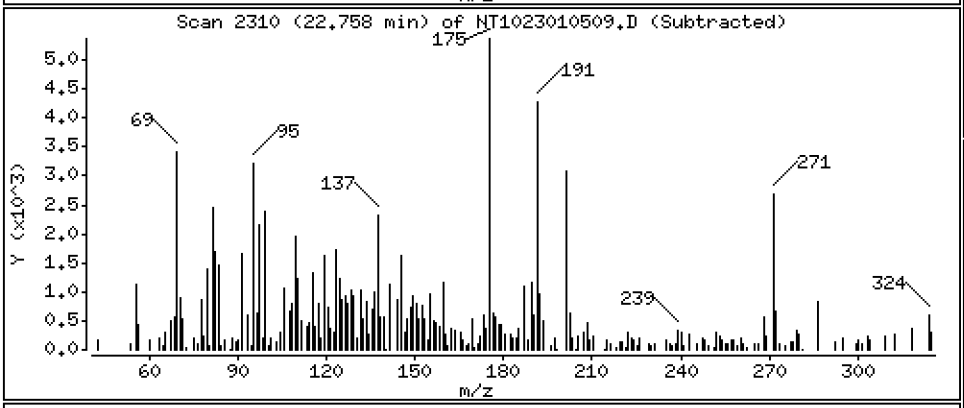
Column diameter: 0.25

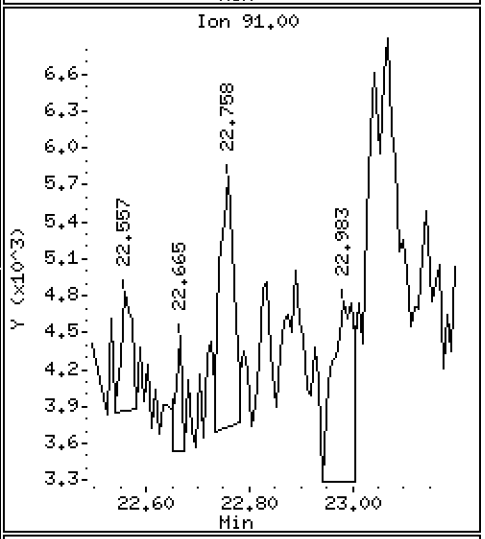
67 Butylbenzylphthalate

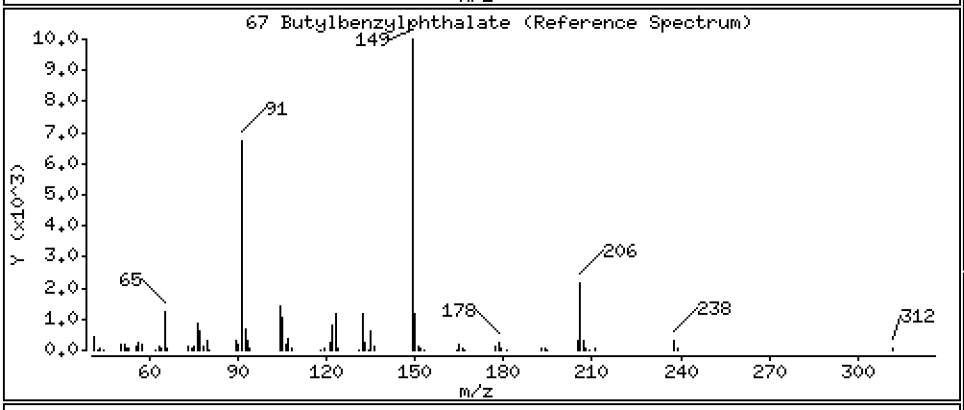
Concentration: 0.07793 ug/mL

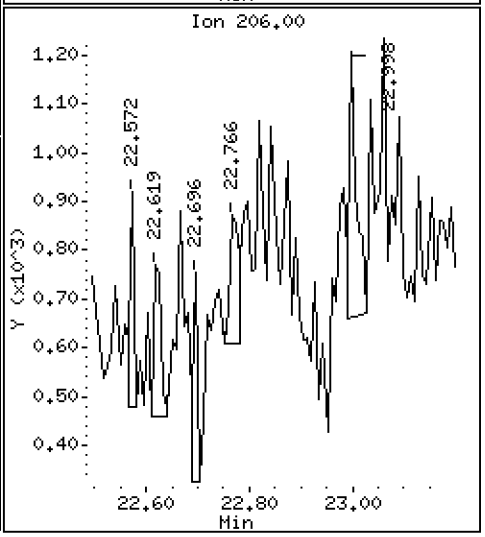


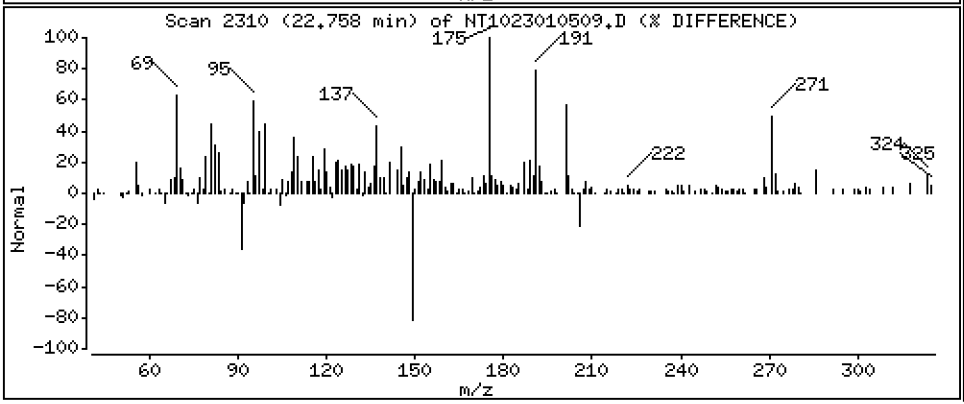












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

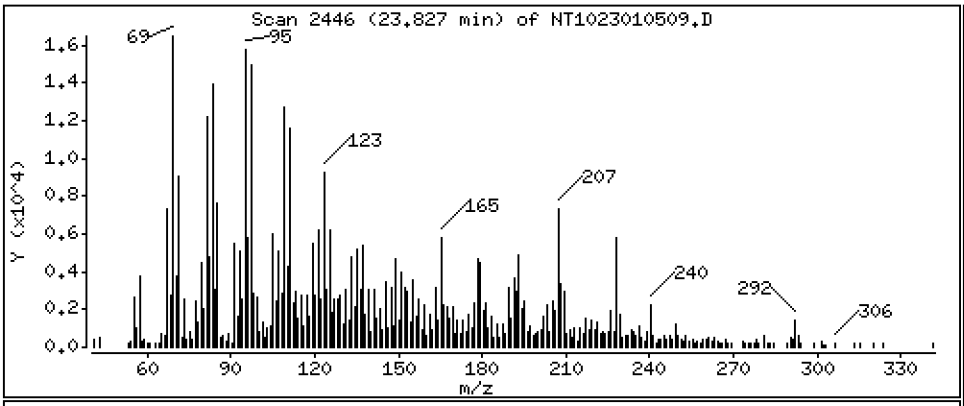
Operator: VTS

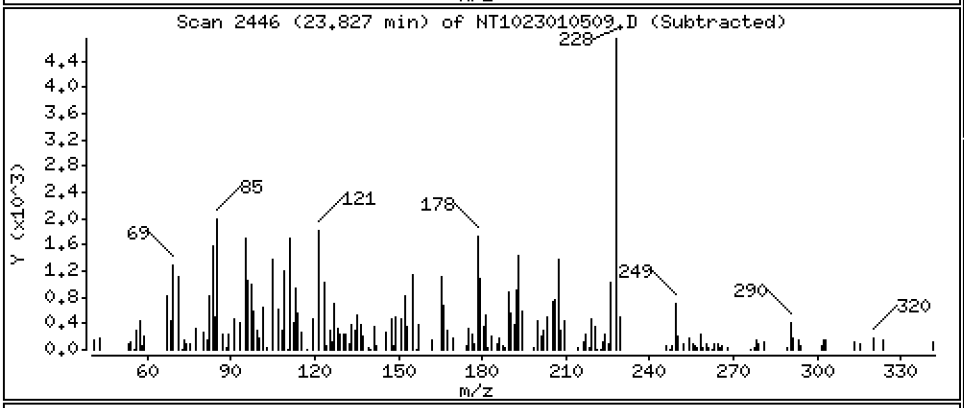
Column phase: ZB-5msi

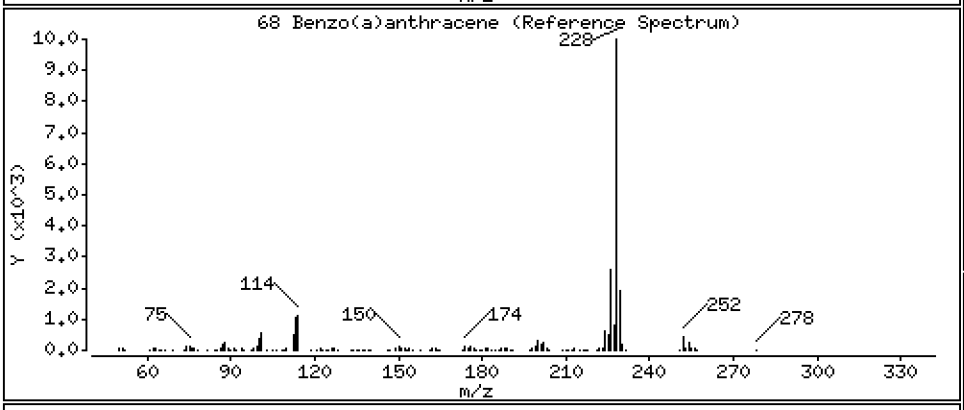
Column diameter: 0.25

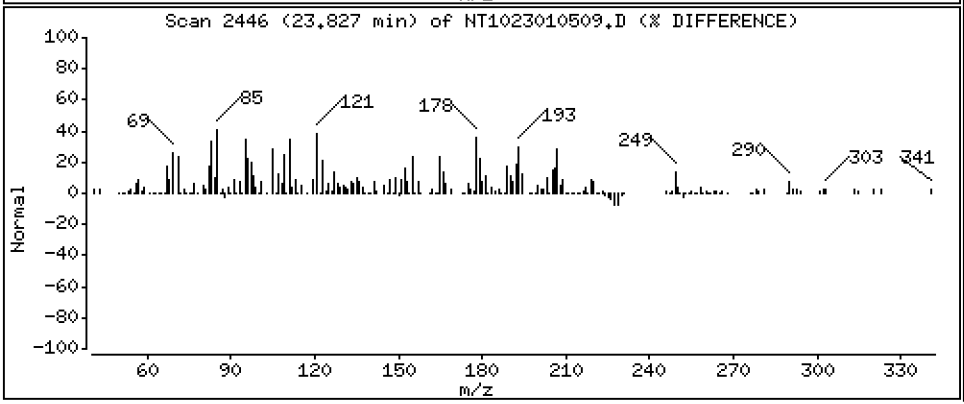
68 Benzo(a)anthracene

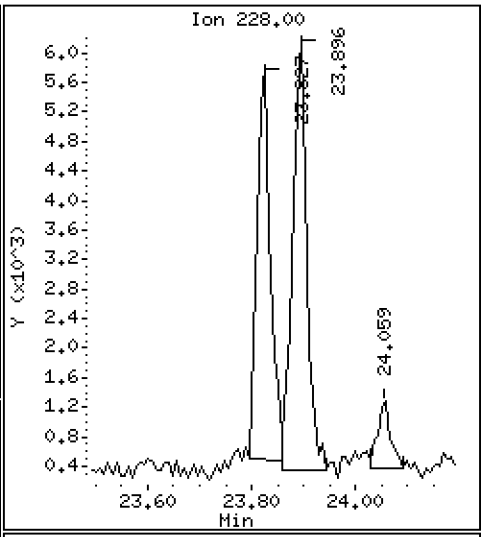
Concentration: 0.3463 ug/mL

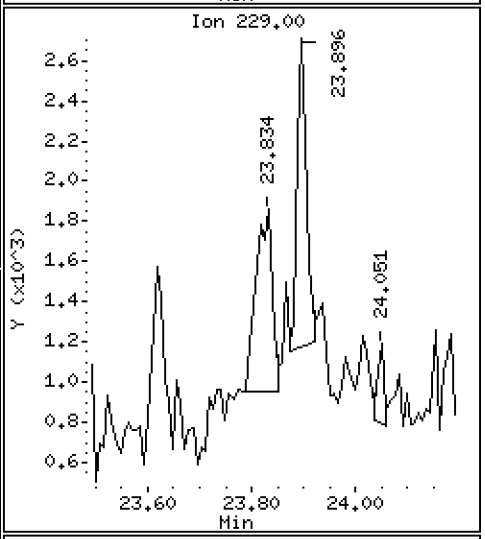


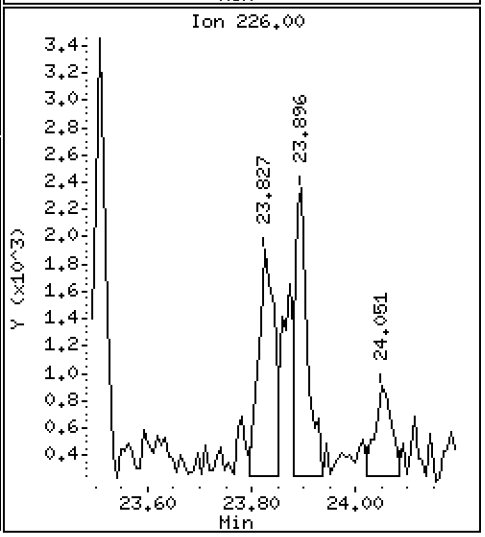












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

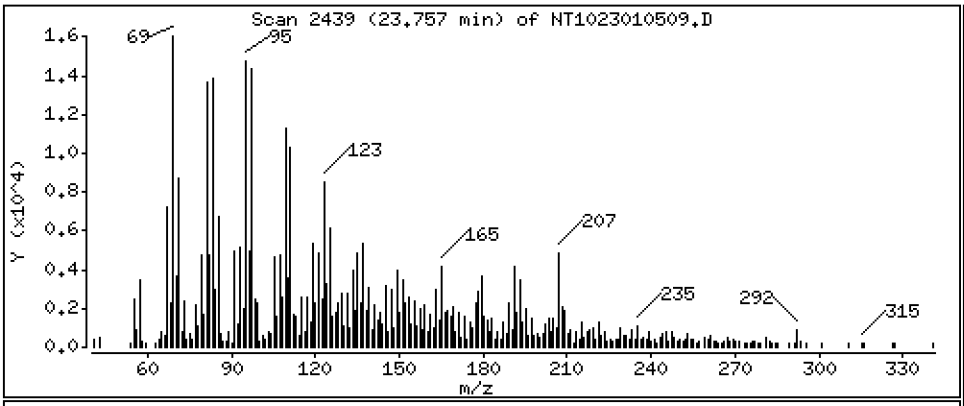
Operator: VTS

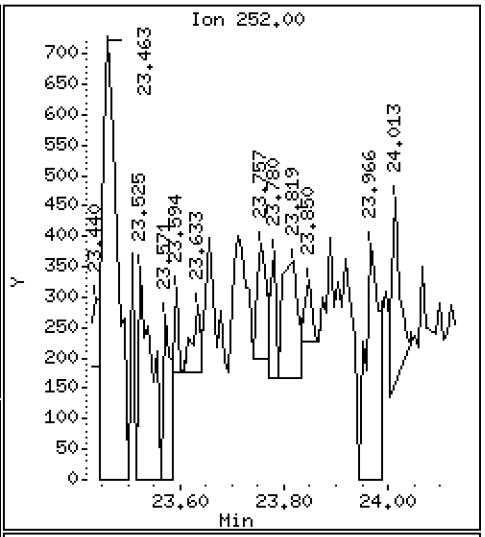
Column phase: ZB-5msi

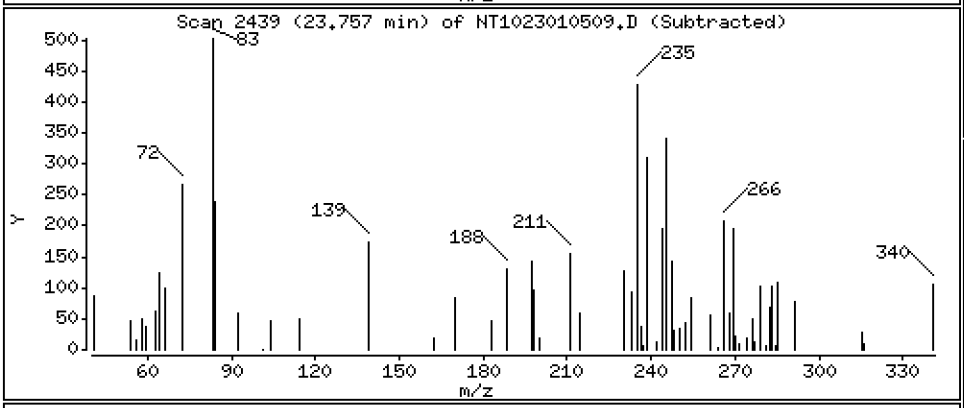
Column diameter: 0.25

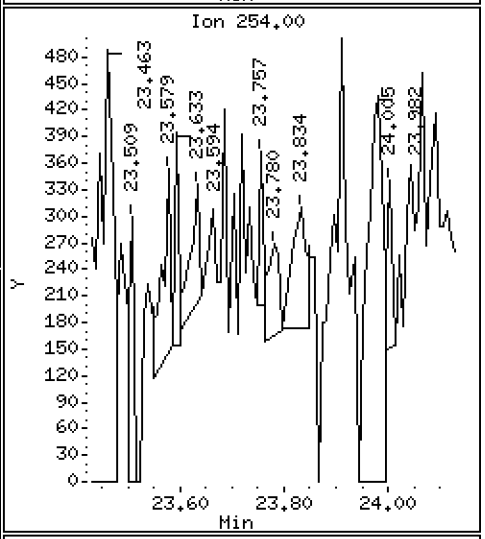
70 3,3'-Dichlorobenzidine

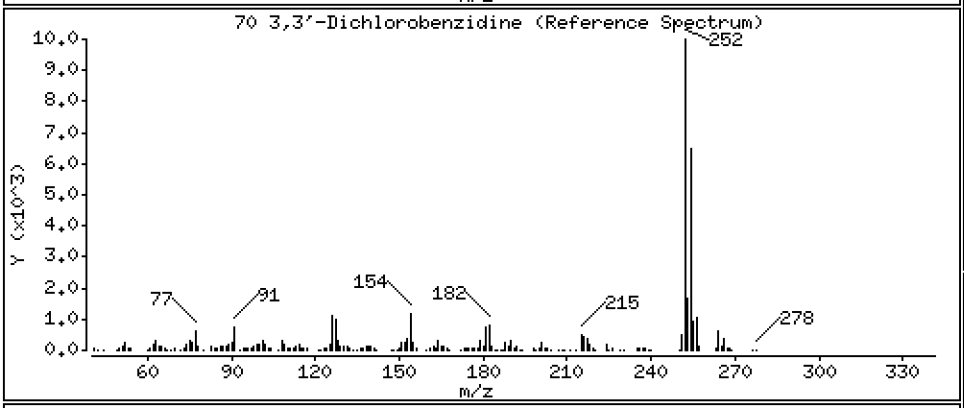
Concentration: 0.02415 ug/mL

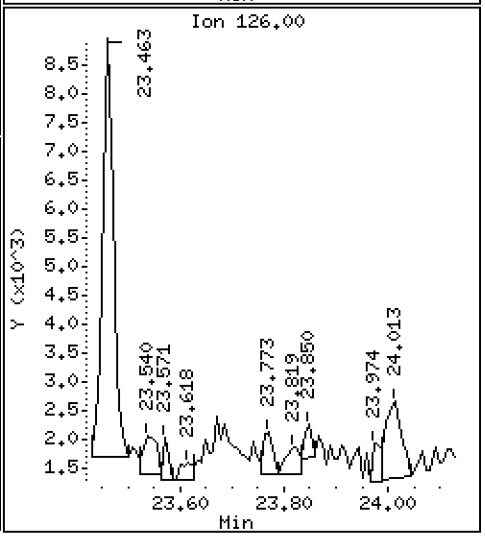


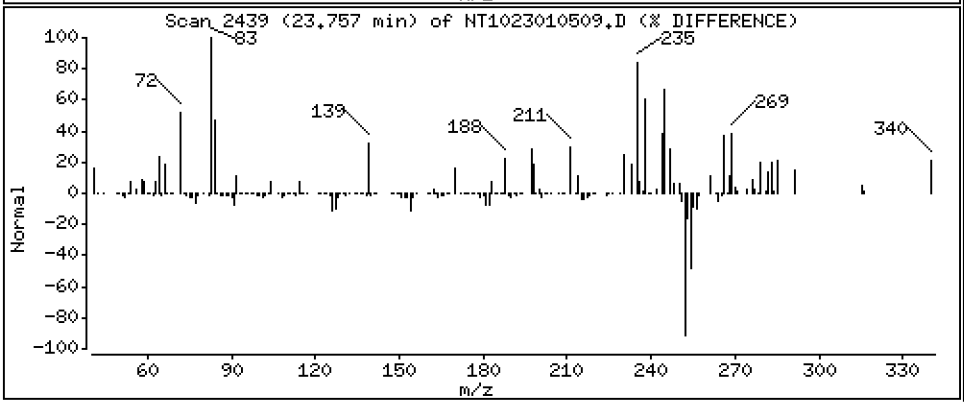












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

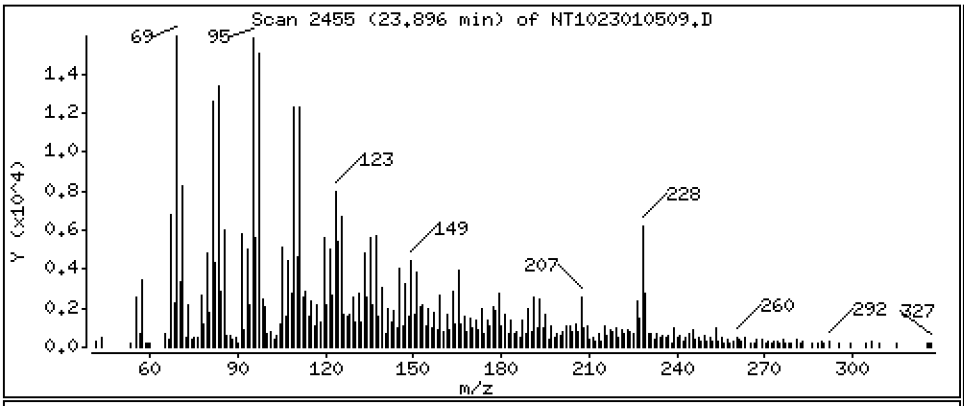
Operator: VTS

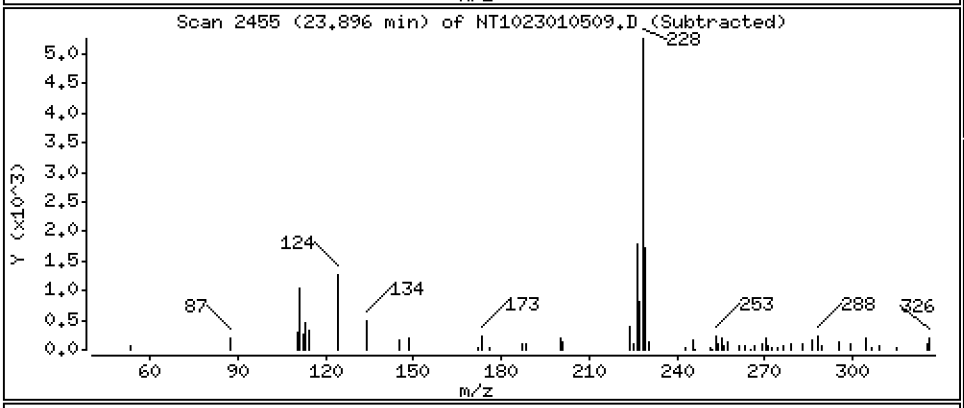
Column phase: ZB-5msi

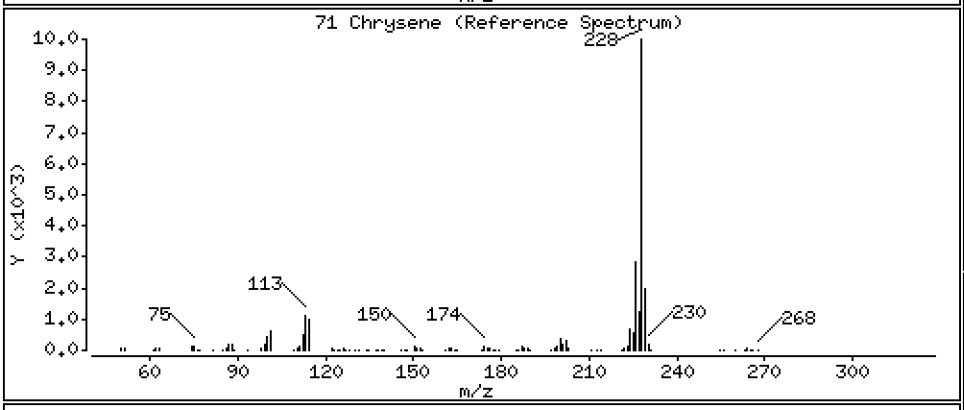
Column diameter: 0.25

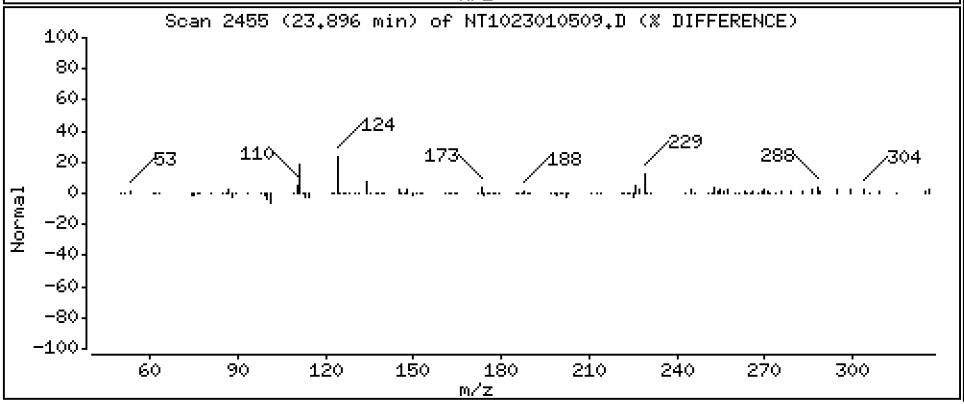
71 Chrysene

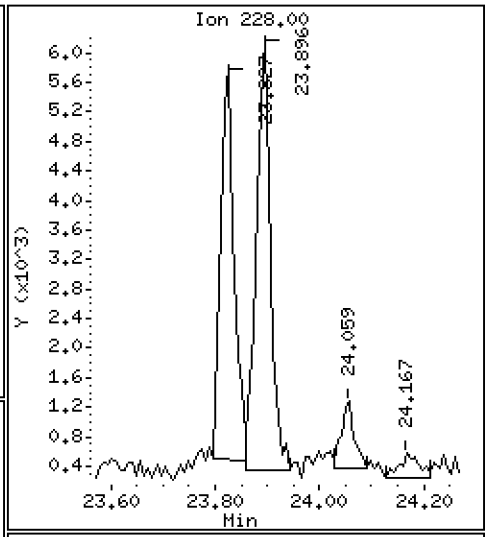
Concentration: 0.4421 ug/mL

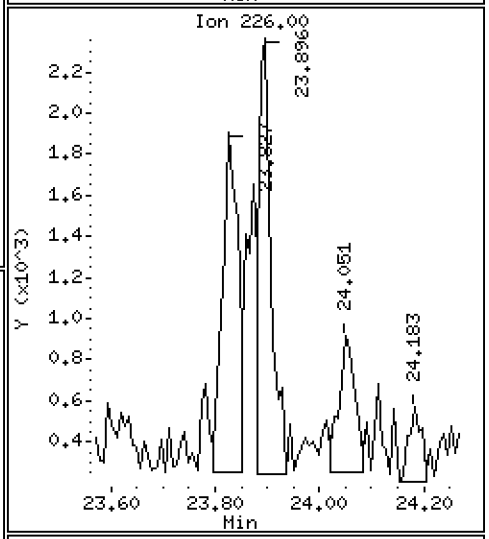


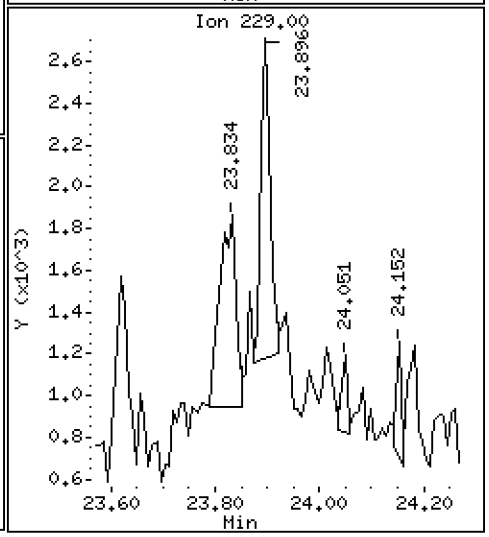












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

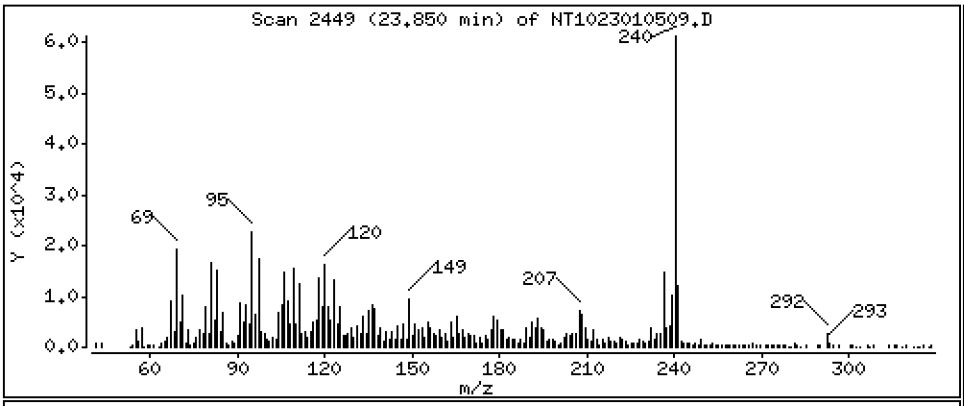
Operator: VTS

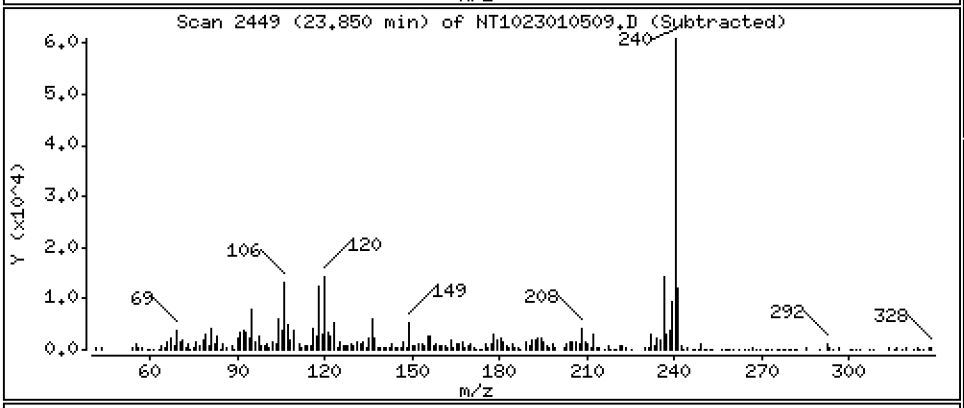
Column phase: ZB-5msi

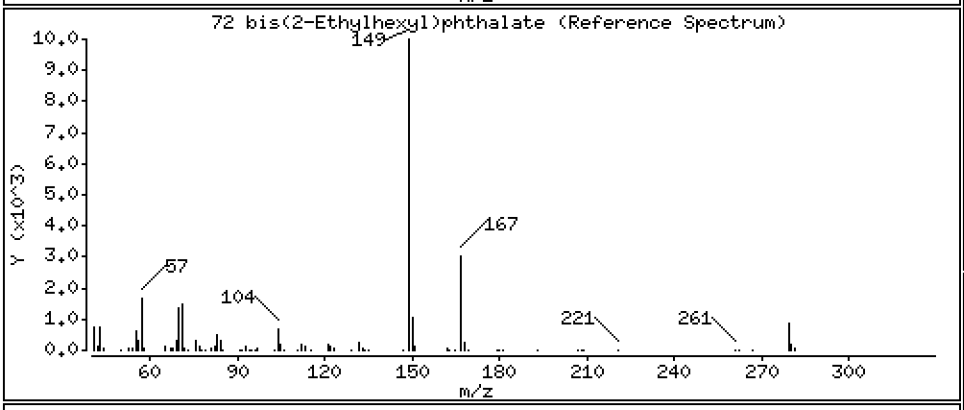
Column diameter: 0.25

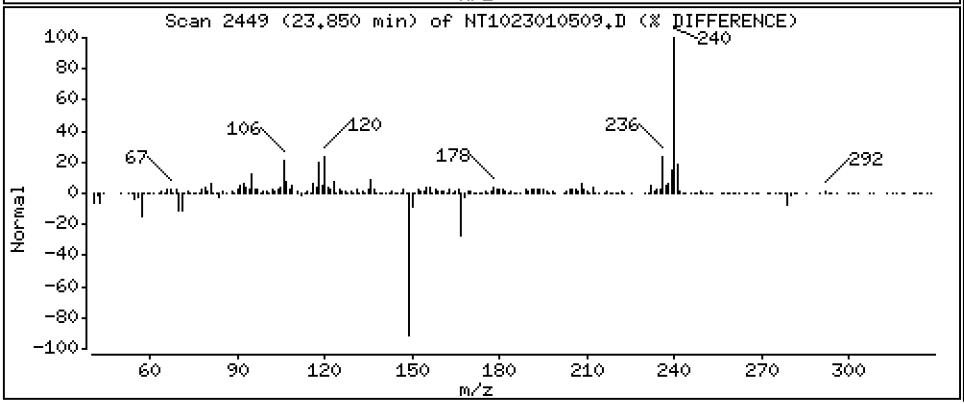
72 bis(2-Ethylhexyl)phthalate

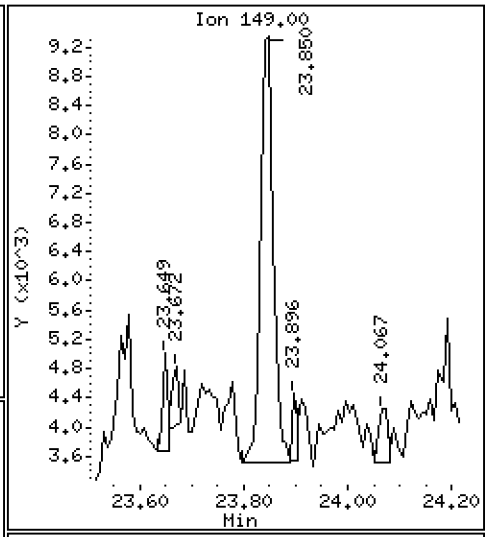
Concentration: 0.2820 ug/mL

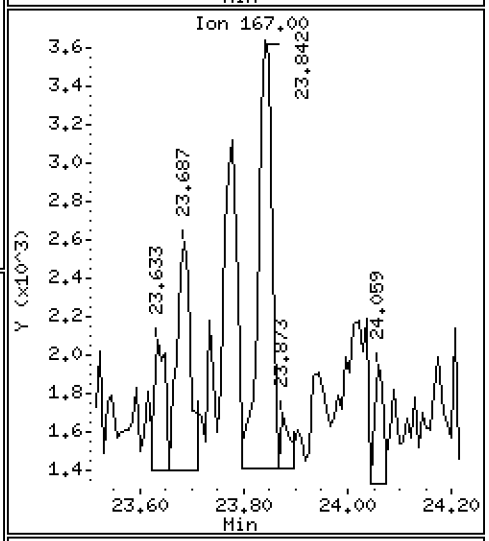


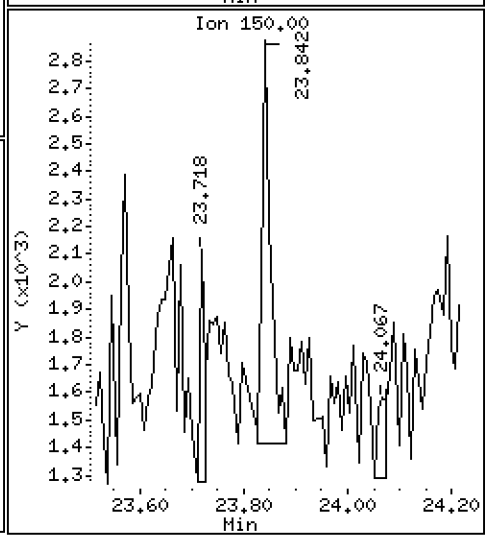












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D

Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

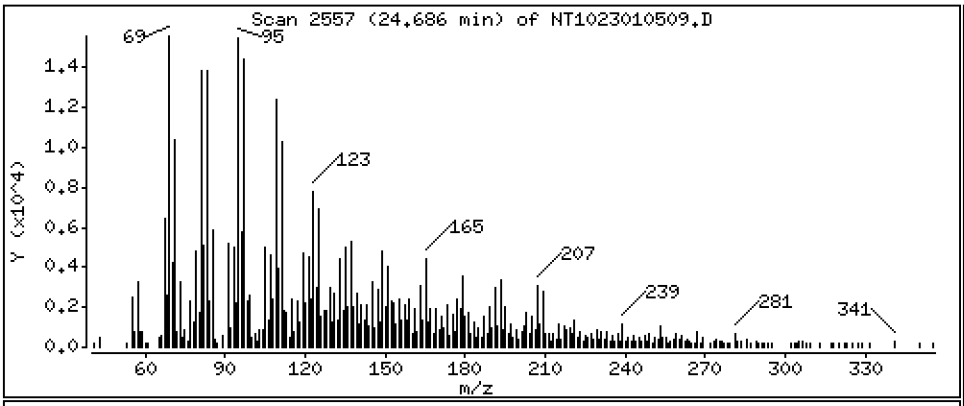
Operator: VTS

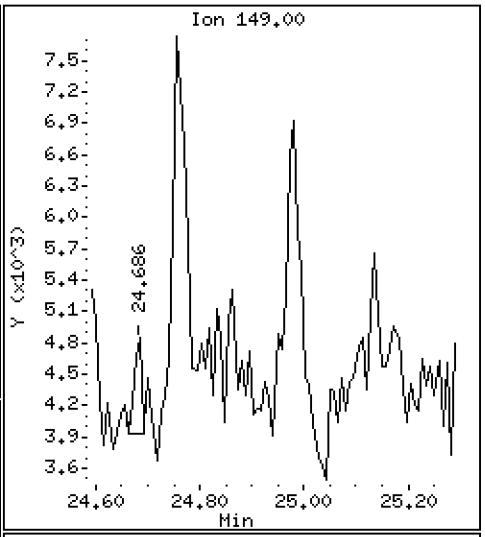
Column phase: ZB-5msi

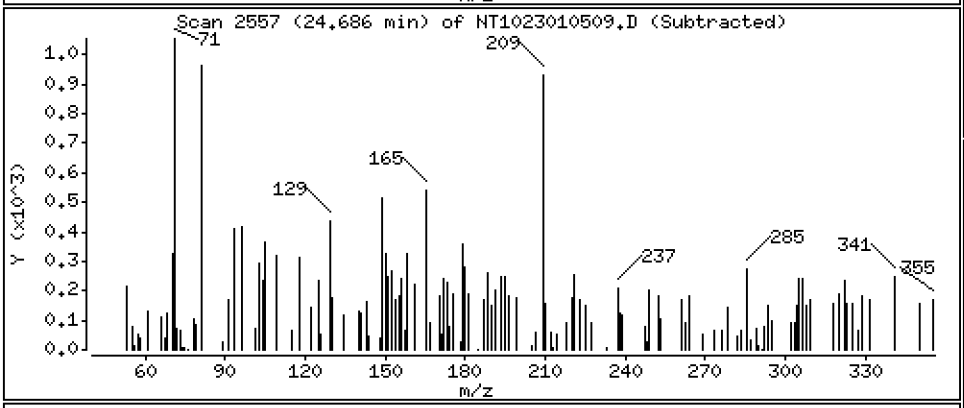
Column diameter: 0.25

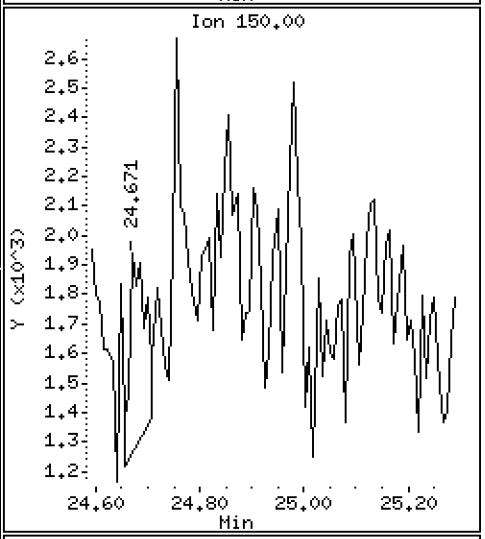
73 Di-n-octylphthalate

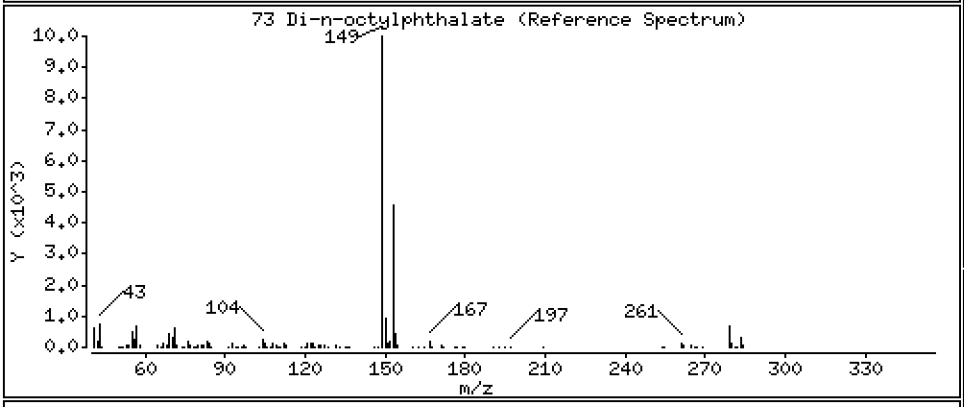
Concentration: 0.01469 ug/mL

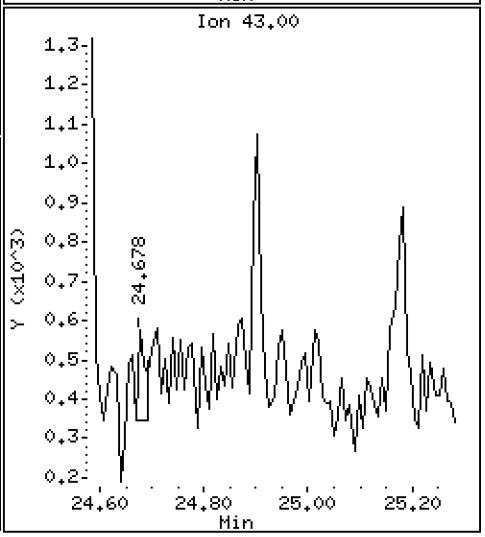


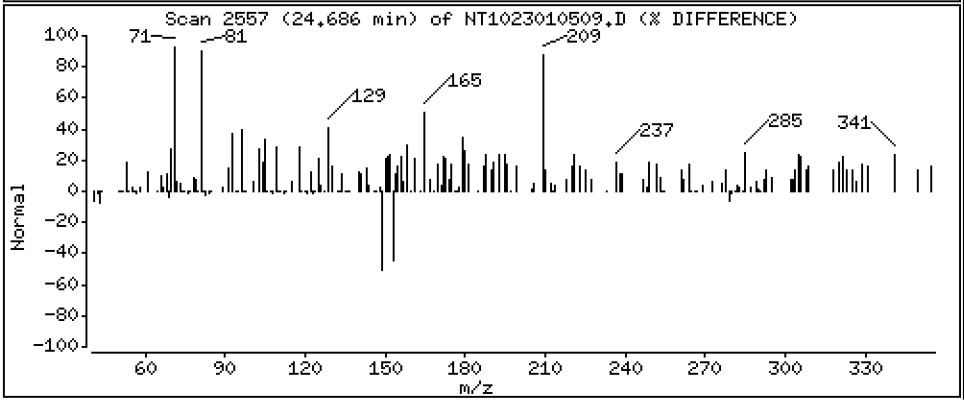












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

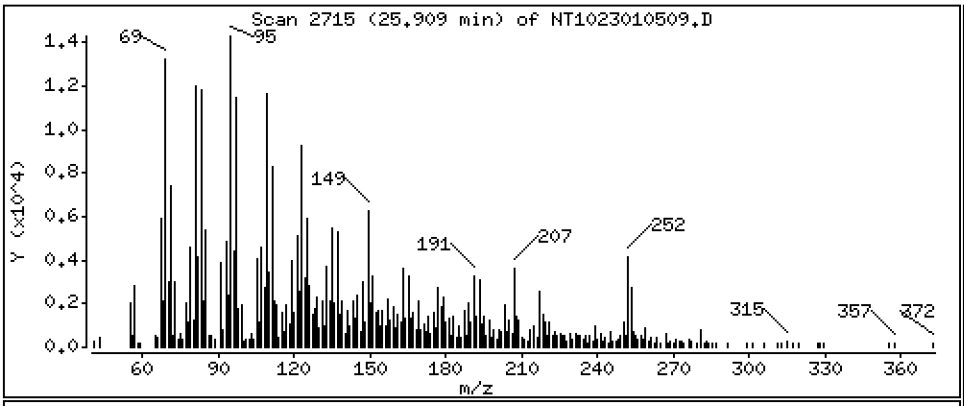
Operator: VTS

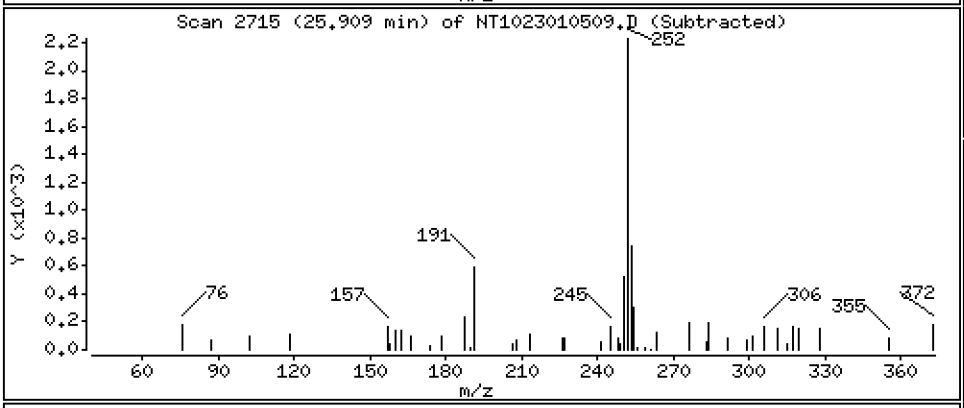
Column phase: ZB-5msi

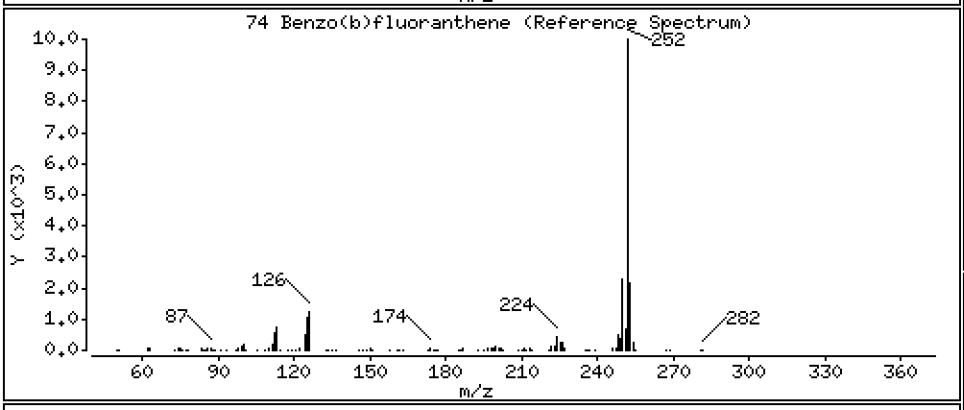
Column diameter: 0.25

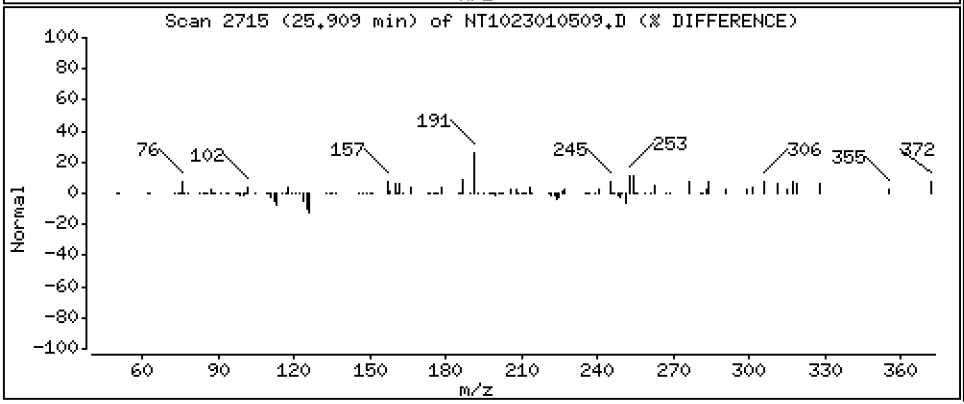
74 Benzo(b)fluoranthene

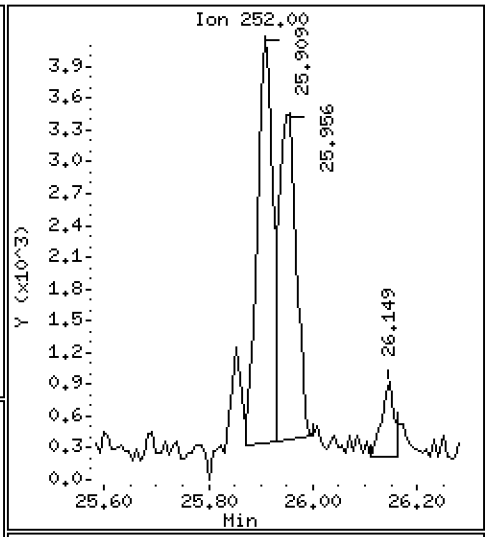
Concentration: 0.2837 ug/mL

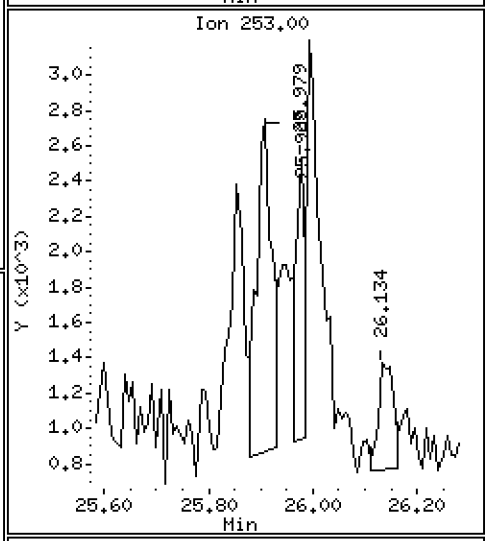


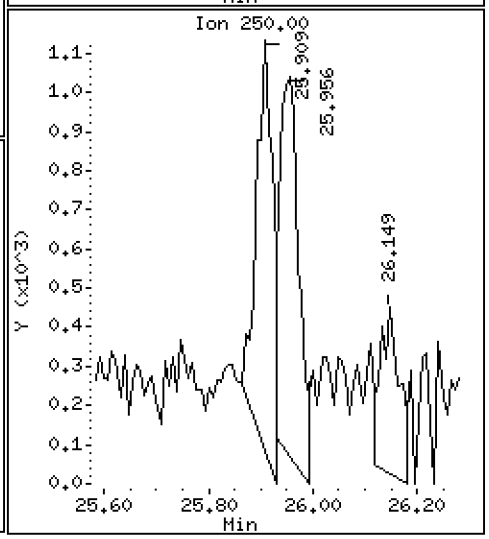












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

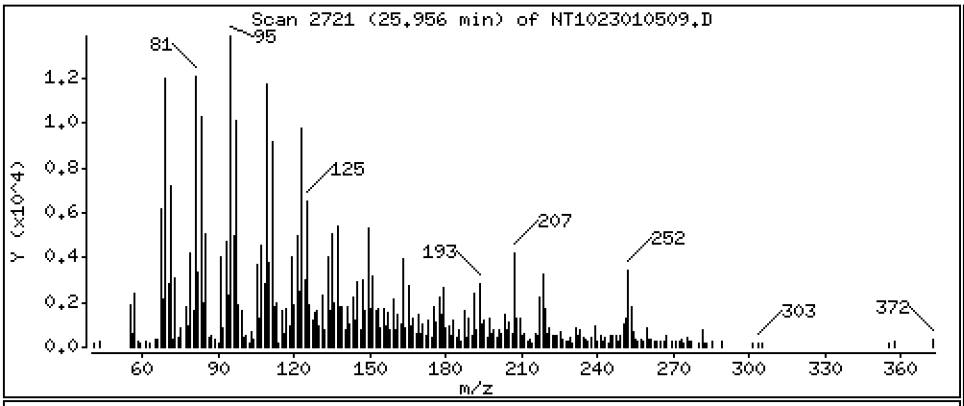
Operator: VTS

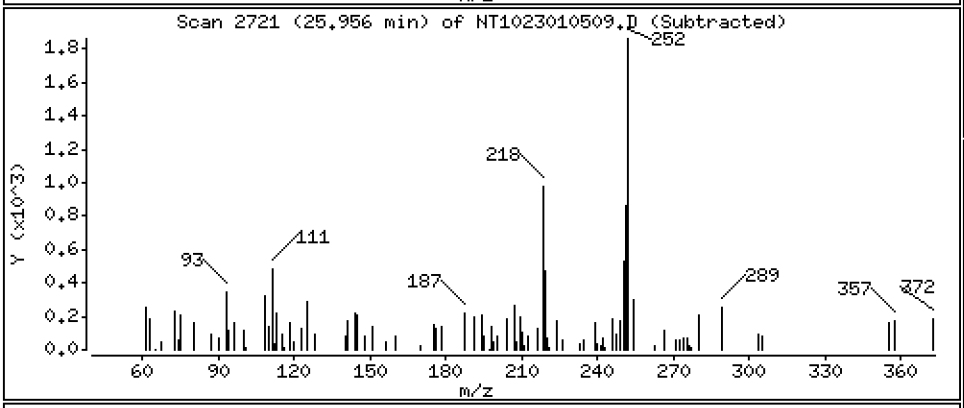
Column phase: ZB-5msi

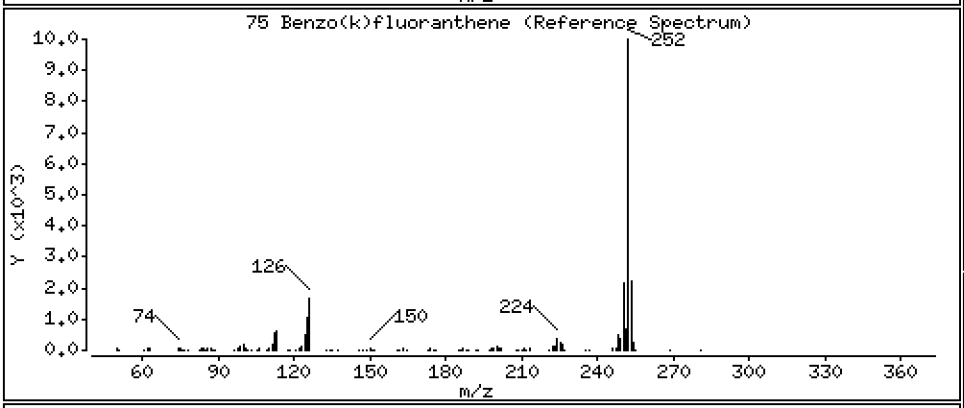
Column diameter: 0.25

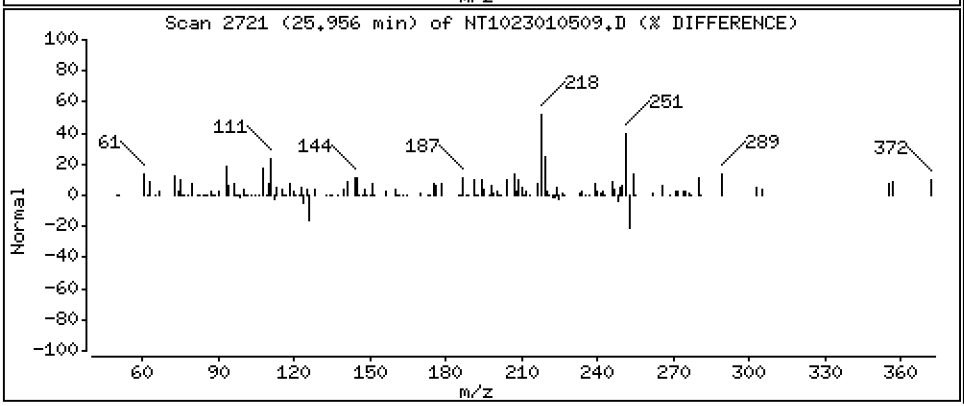
75 Benzo(k)fluoranthene

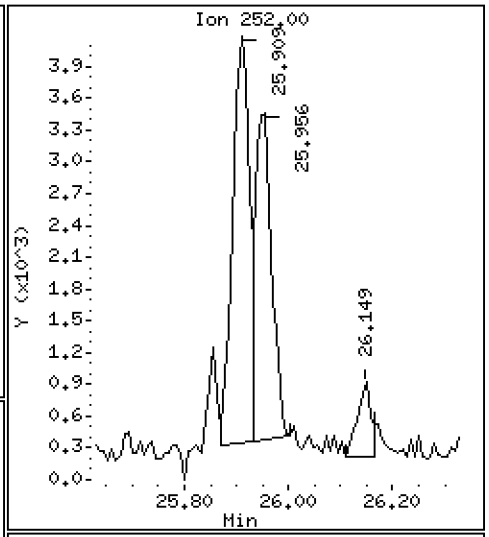
Concentration: 0.2435 ug/mL

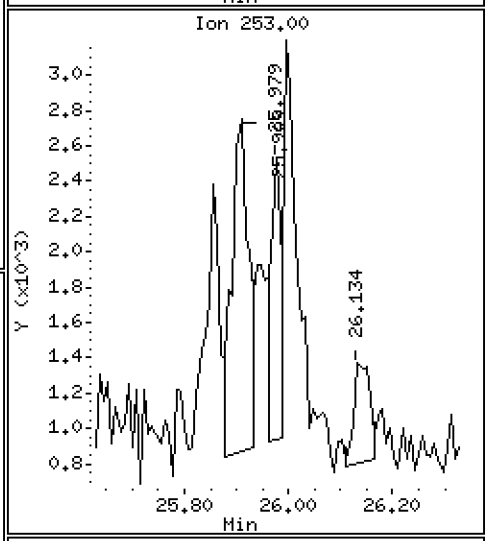


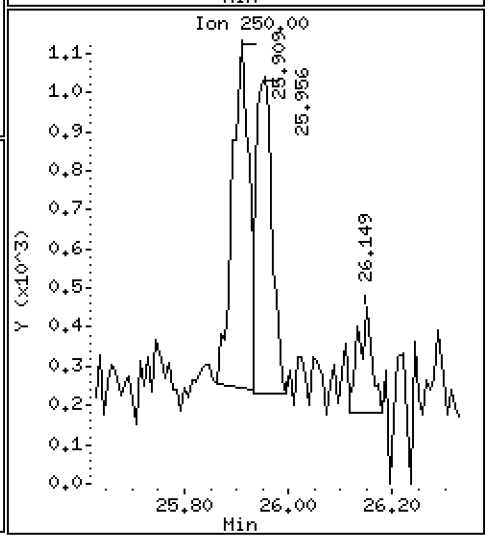












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

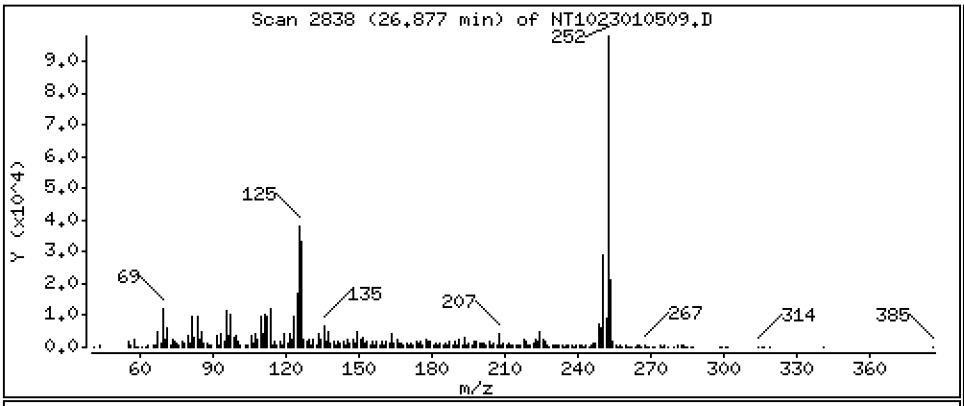
Operator: VTS

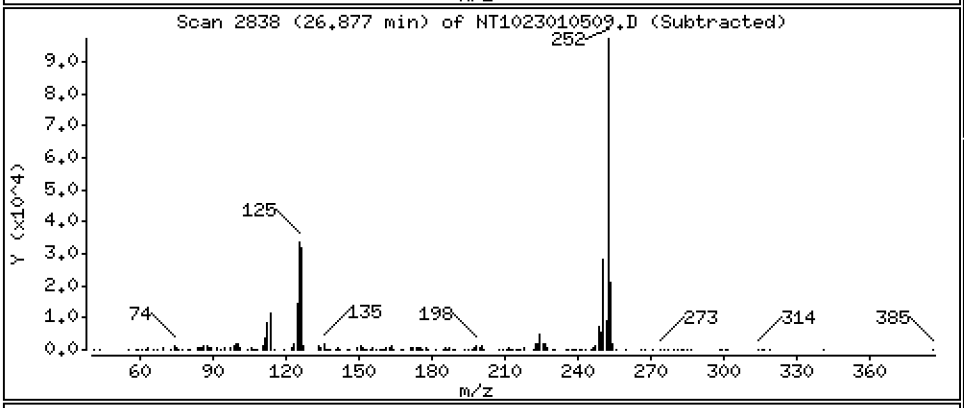
Column phase: ZB-5msi

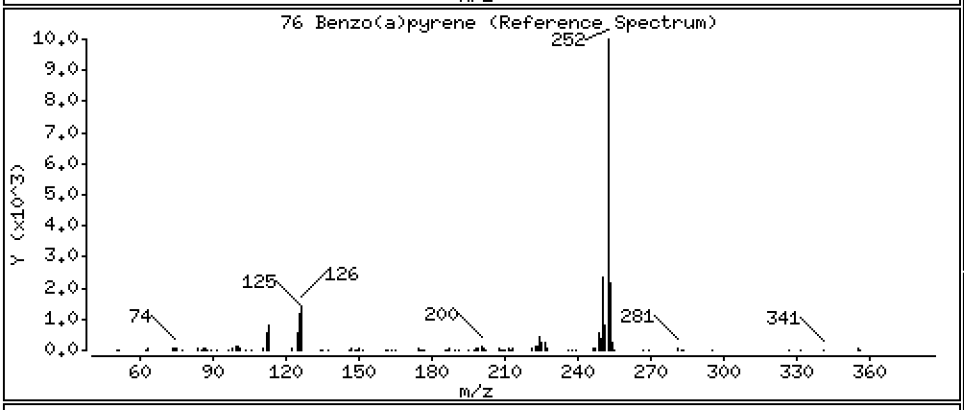
Column diameter: 0.25

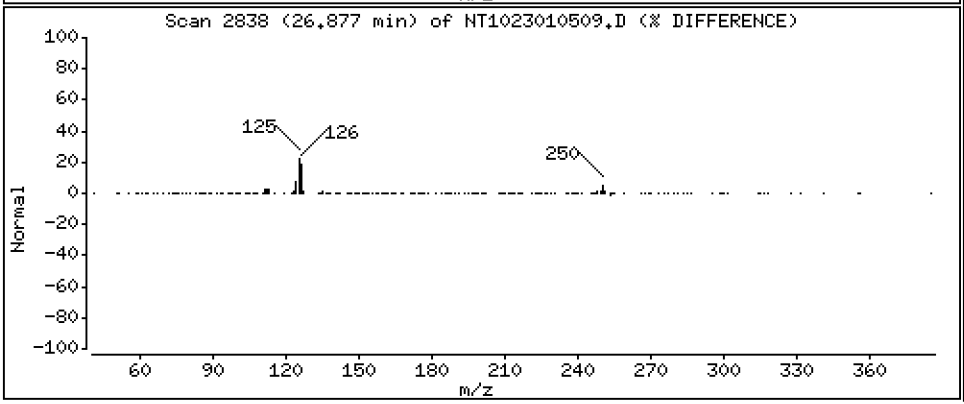
76 Benzo(a)pyrene

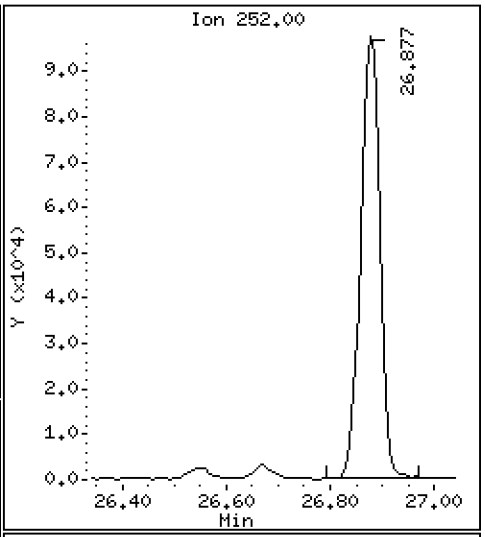
Concentration: 8.859 ug/mL

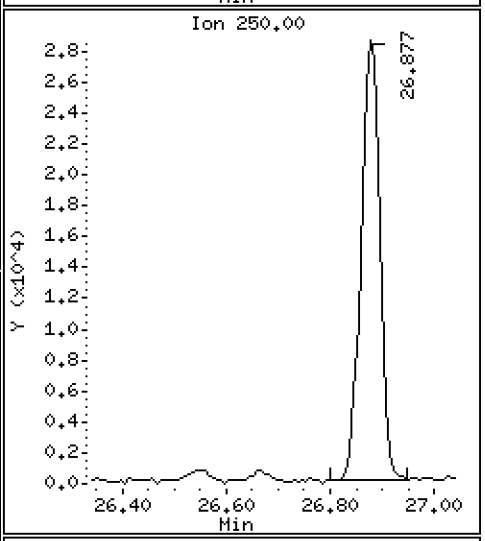


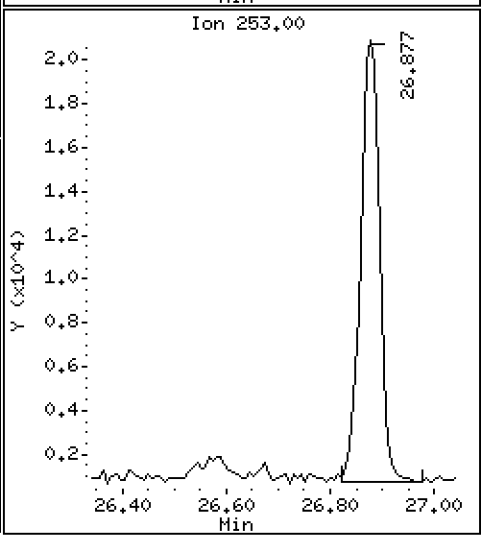












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

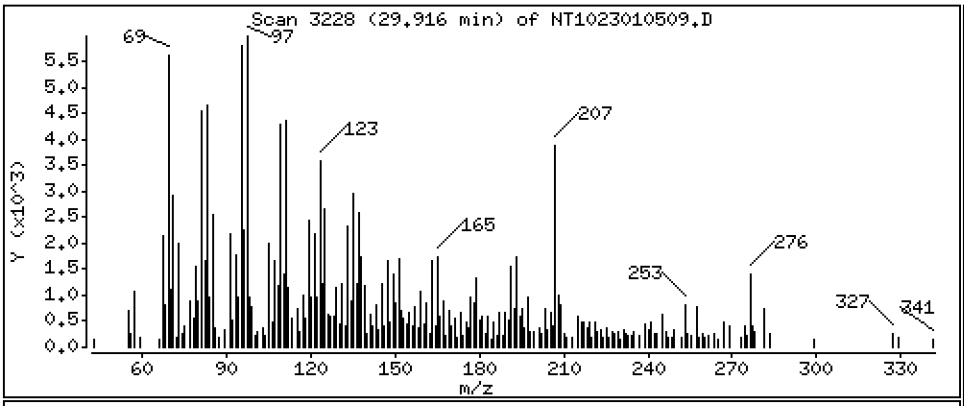
Operator: VTS

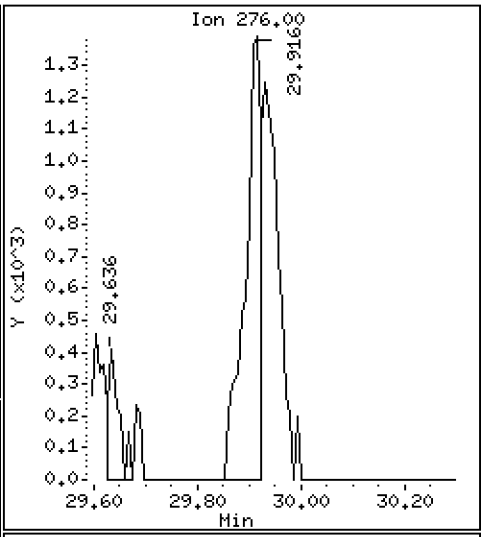
Column phase: ZB-5msi

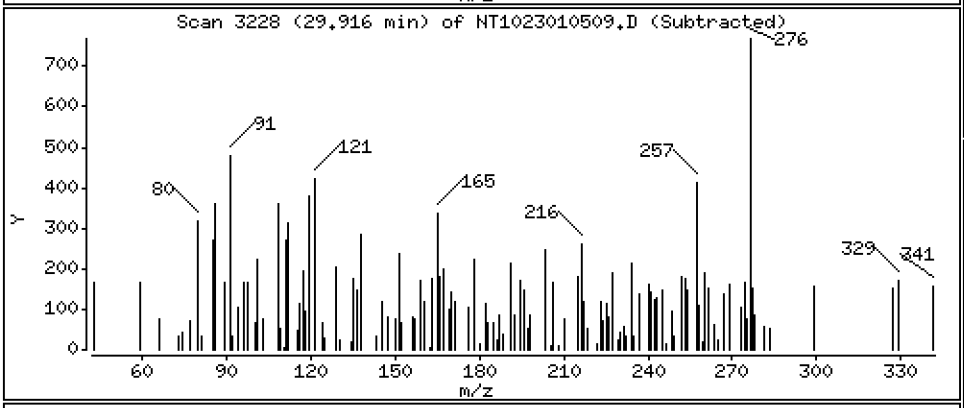
Column diameter: 0.25

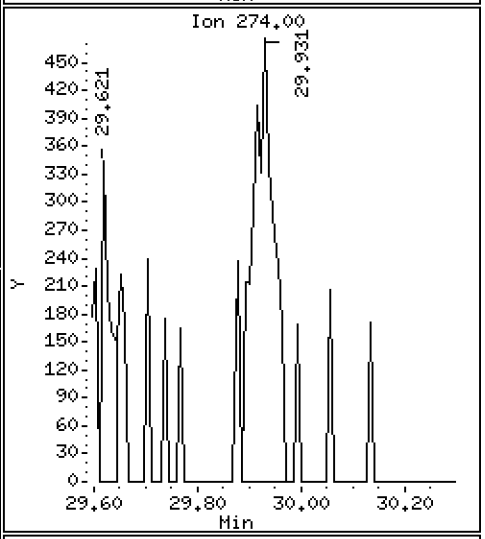
78 Indeno(1,2,3-cd)pyrene

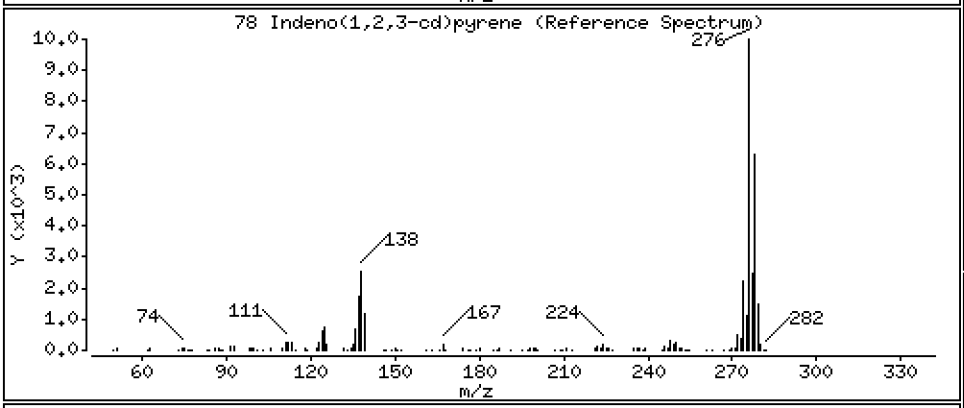
Concentration: 0.1338 ug/mL

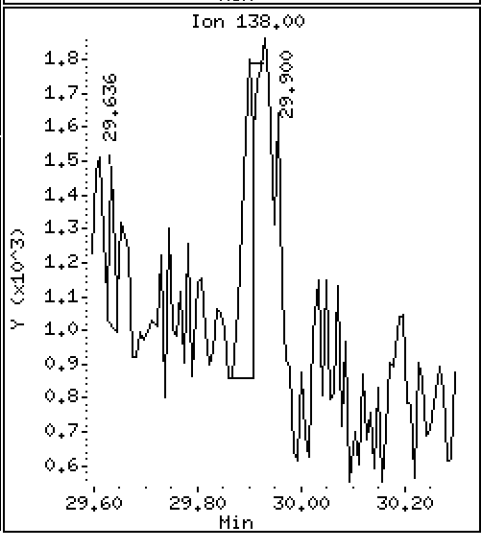


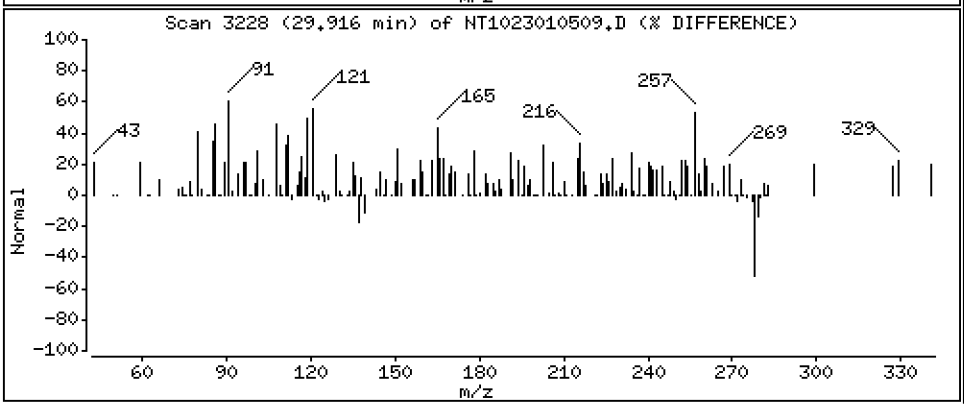












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

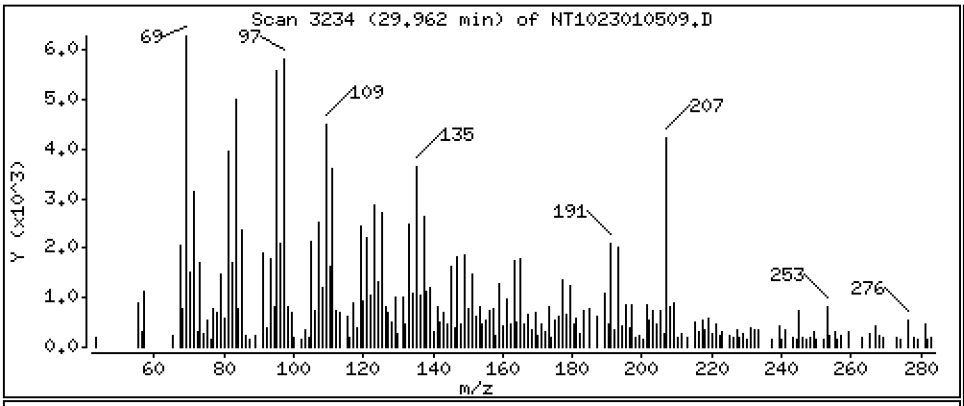
Operator: VTS

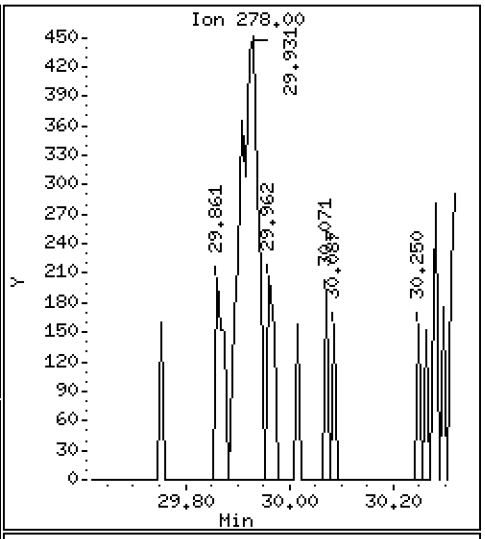
Column phase: ZB-5msi

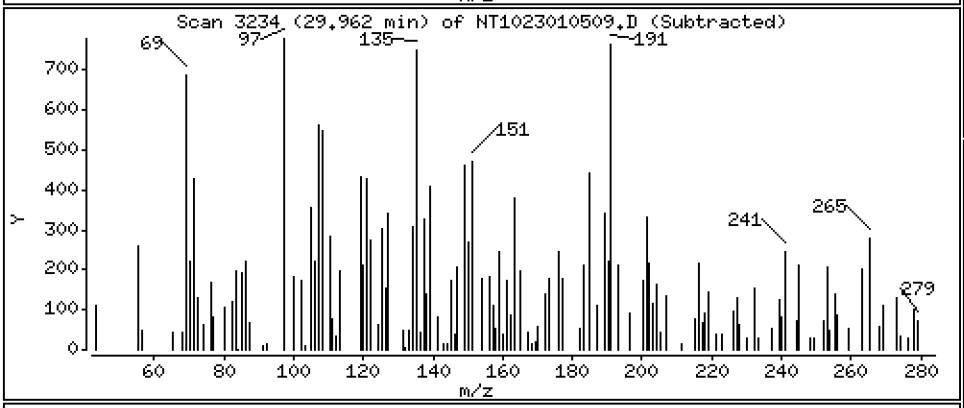
Column diameter: 0.25

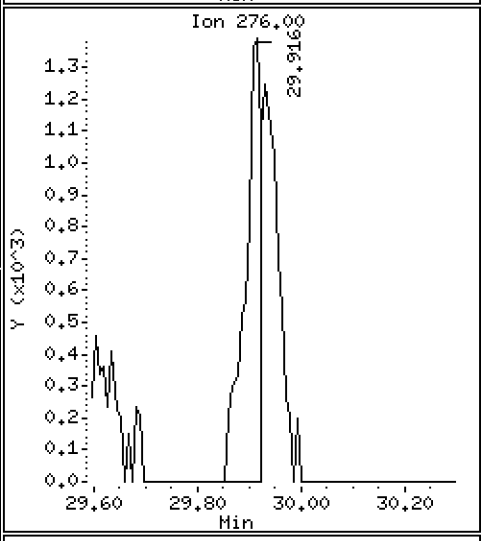
79 Dibenzo(a,h)anthracene

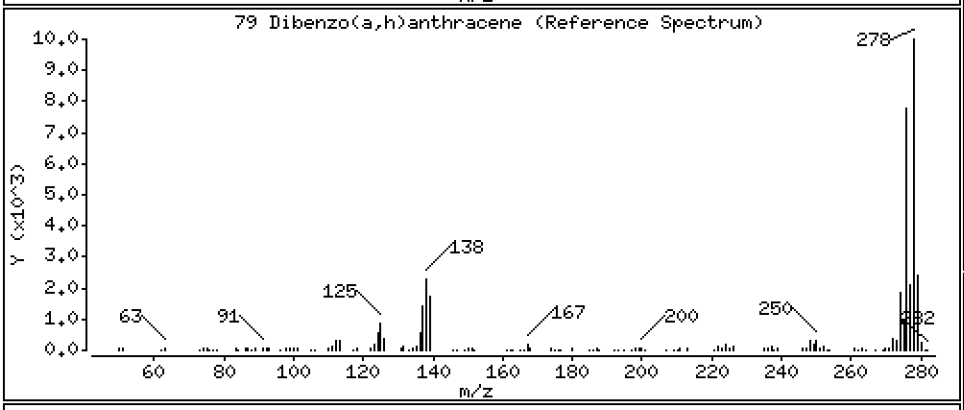
Concentration: 0.009275 ug/mL

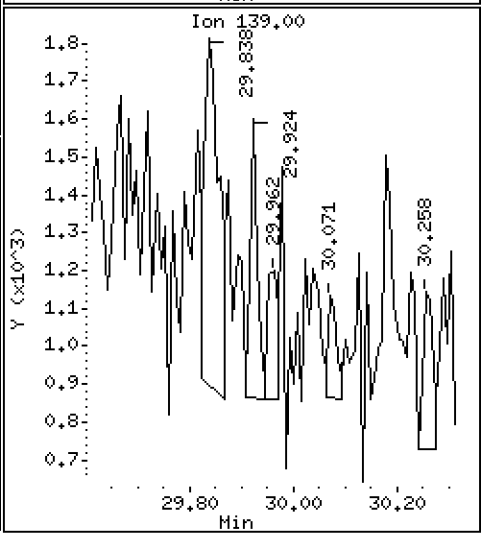


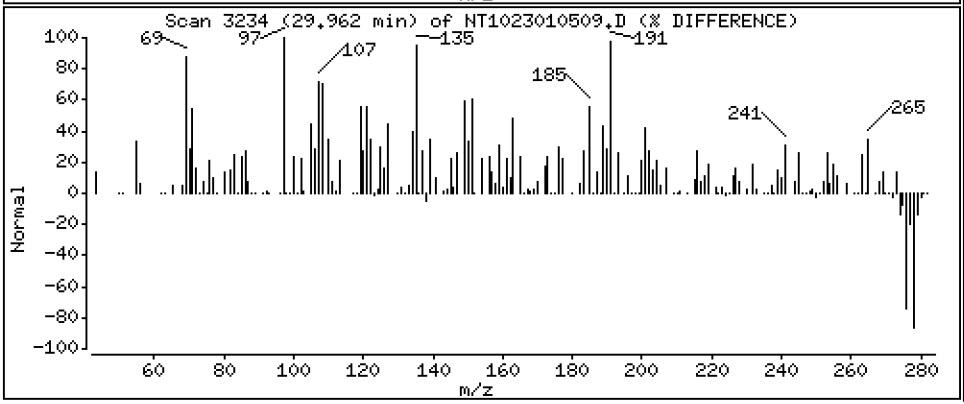












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

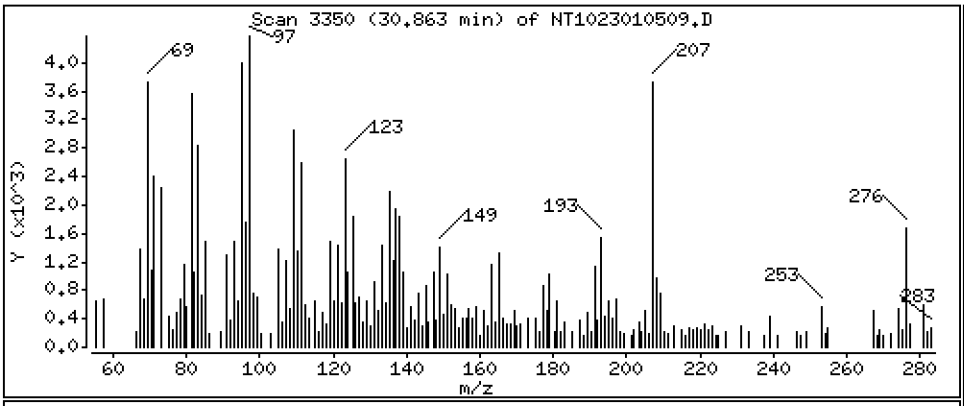
Operator: VTS

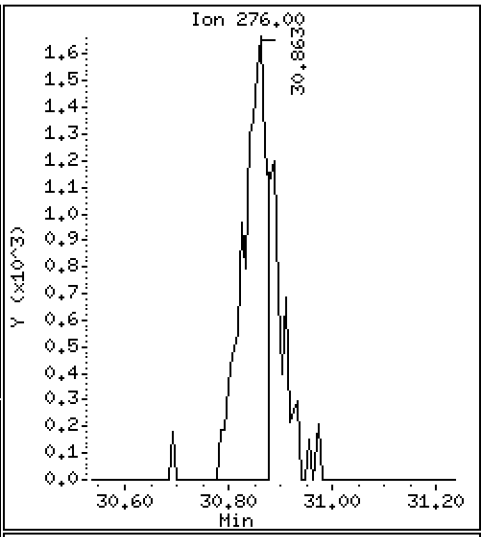
Column phase: ZB-5msi

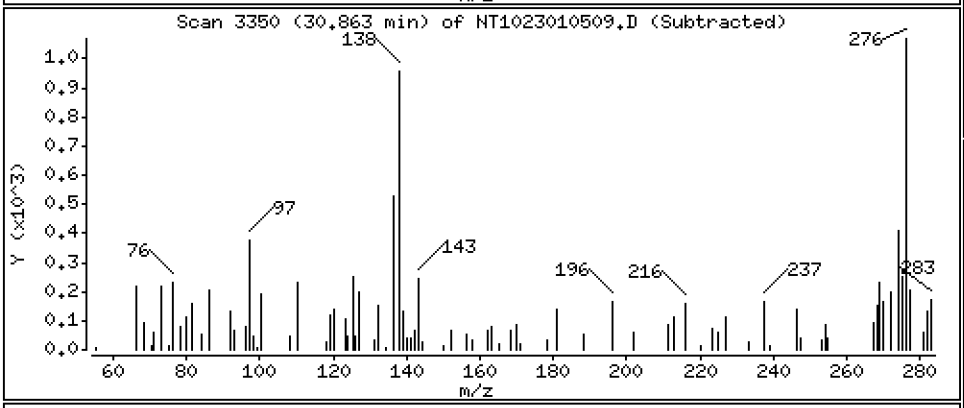
Column diameter: 0.25

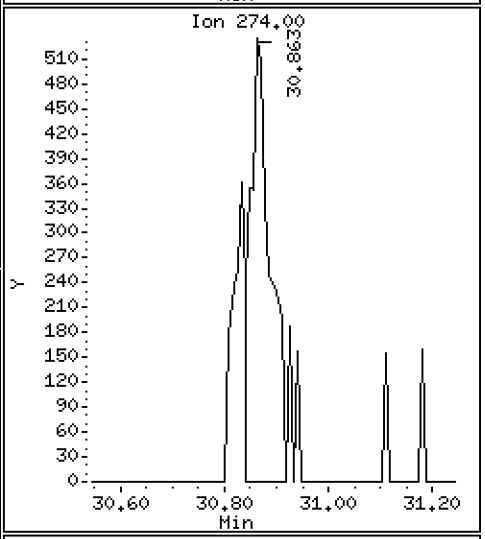
80 Benzo(g,h,i)perylene

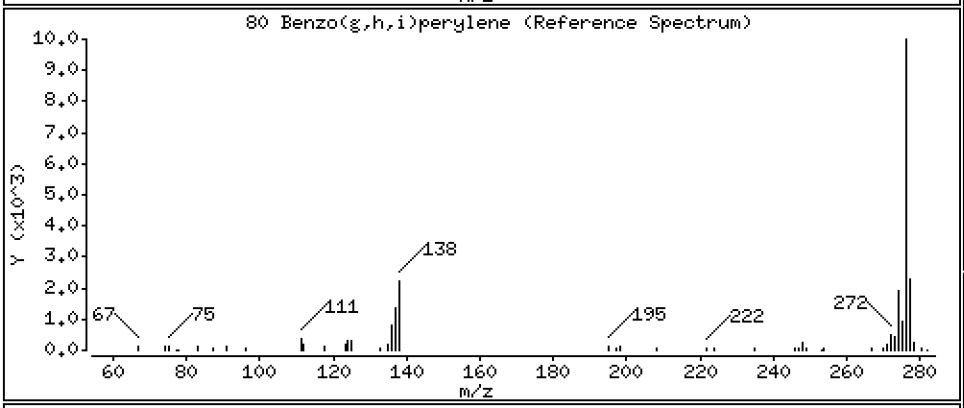
Concentration: 0.2888 ug/mL

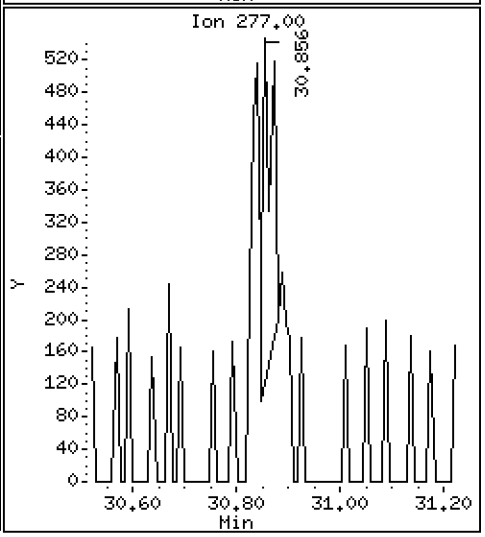


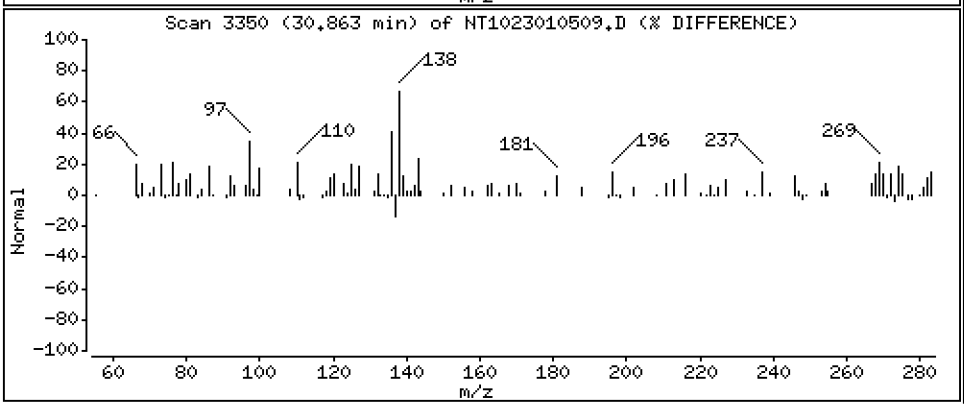












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

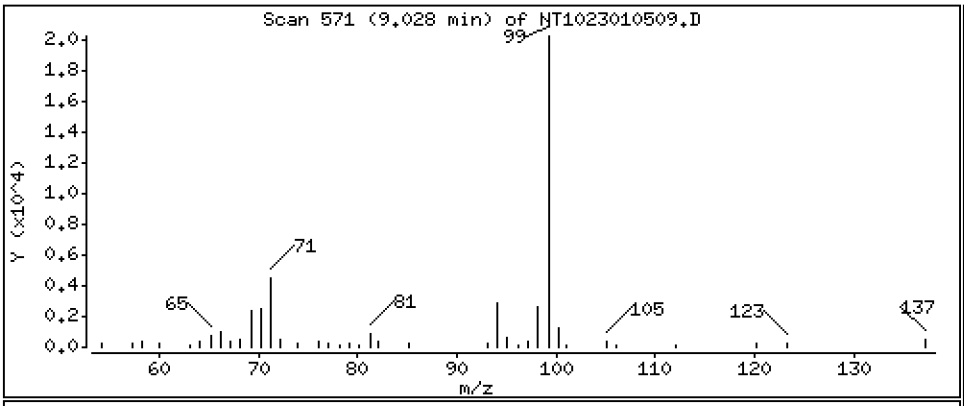
Operator: VTS

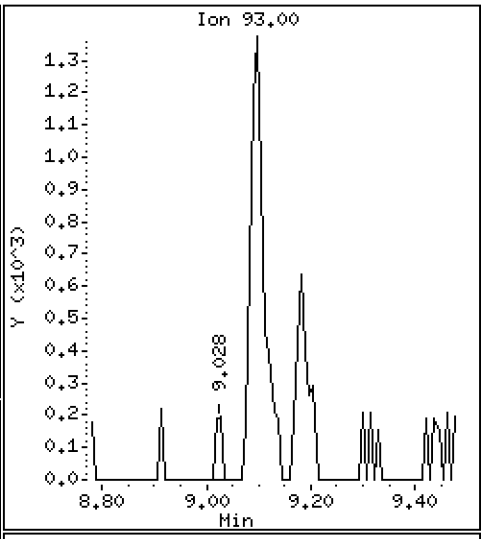
Column phase: ZB-5msi

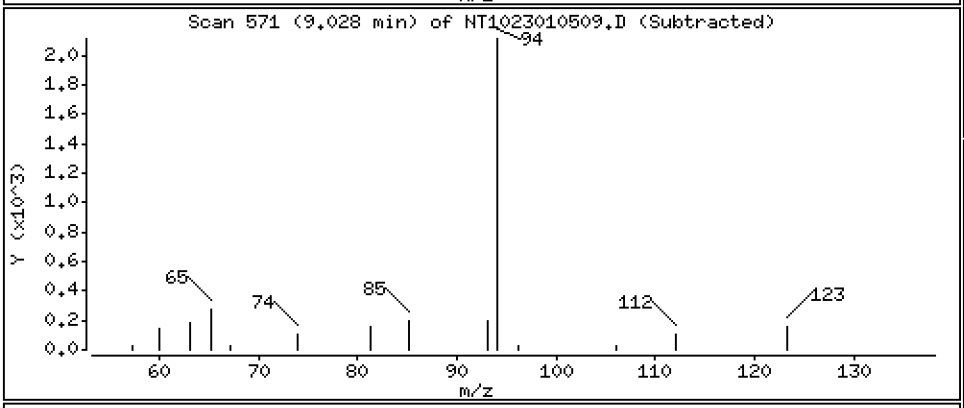
Column diameter: 0.25

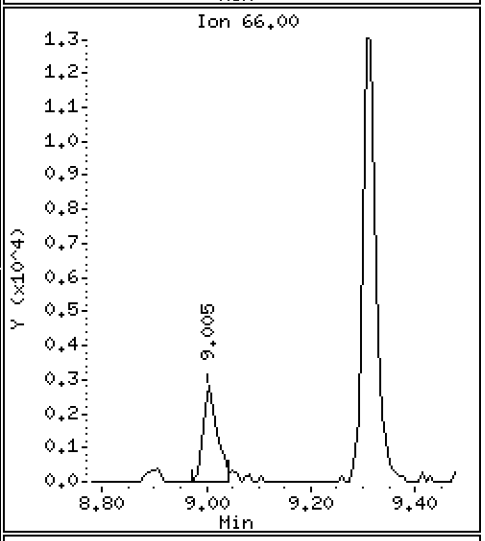
91 Aniline

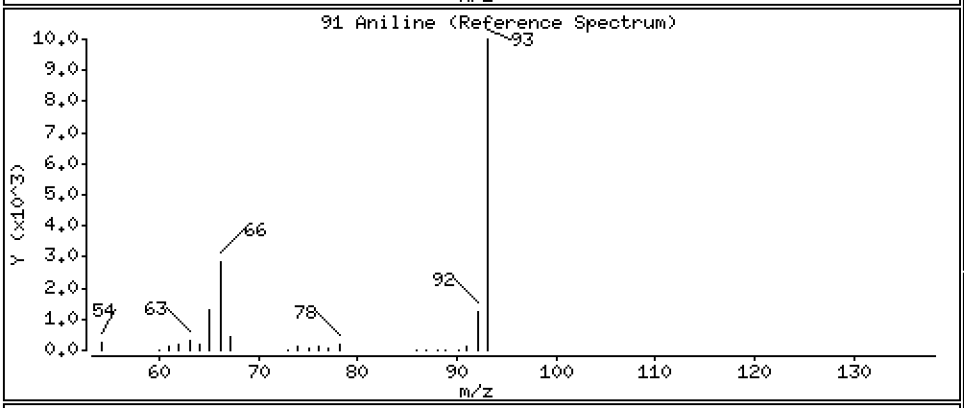
Concentration: 0.006639 ug/mL

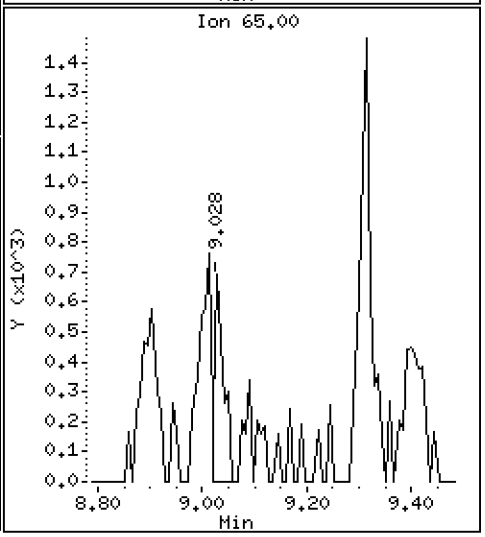


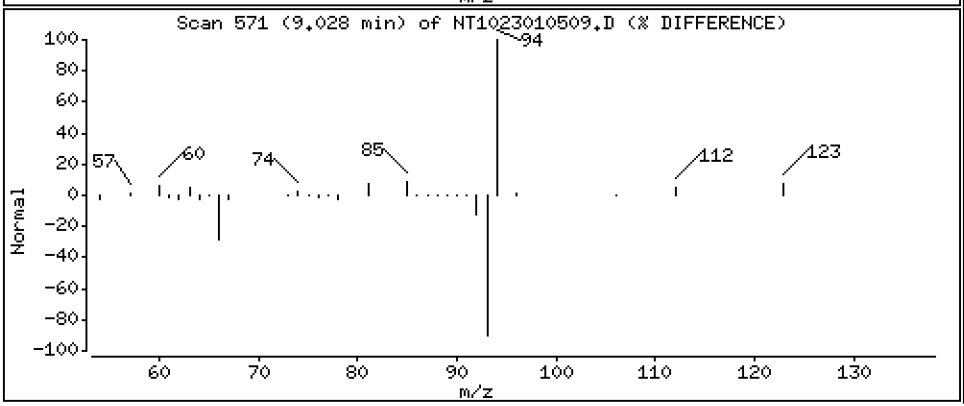












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

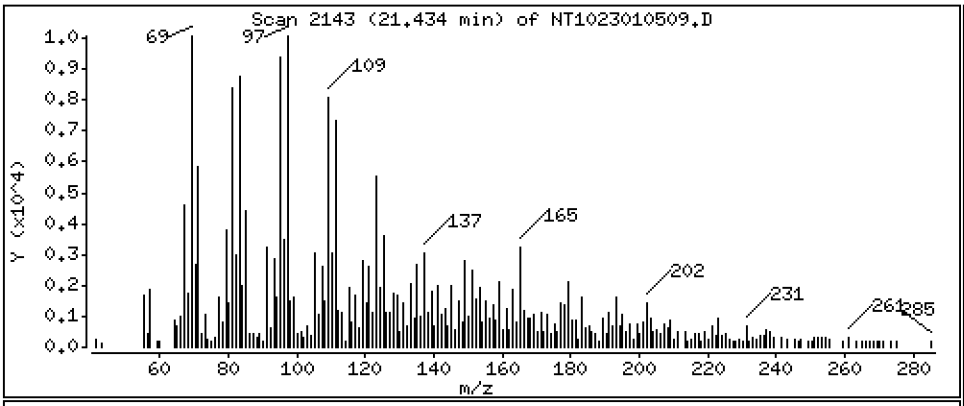
Operator: VTS

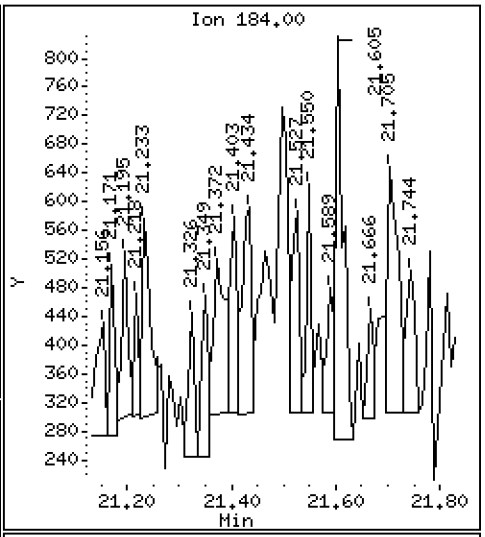
Column phase: ZB-5msi

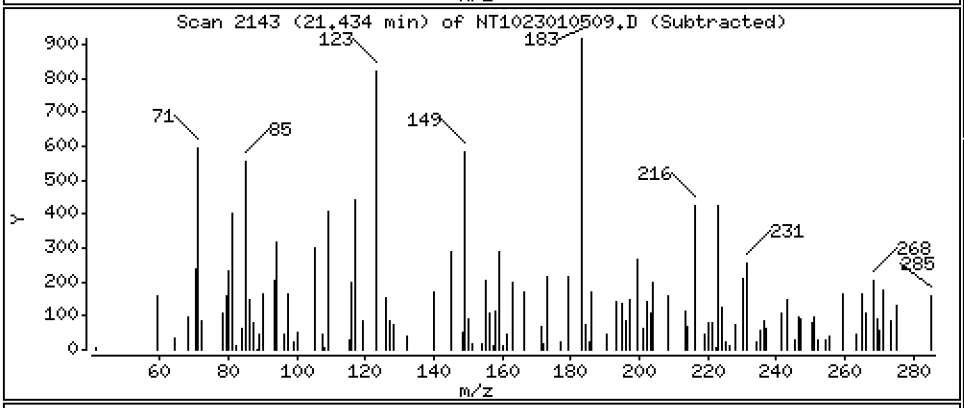
Column diameter: 0.25

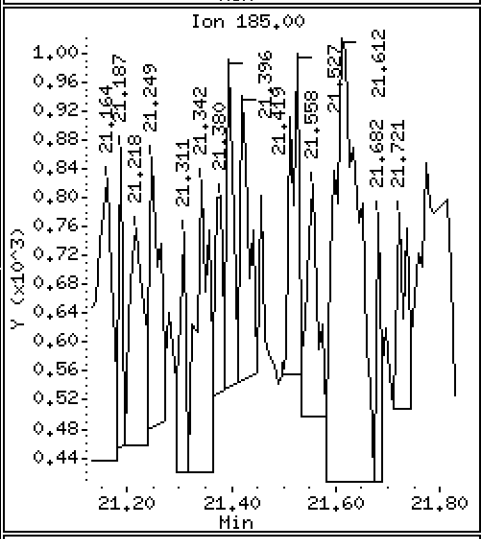
93 Benzidine

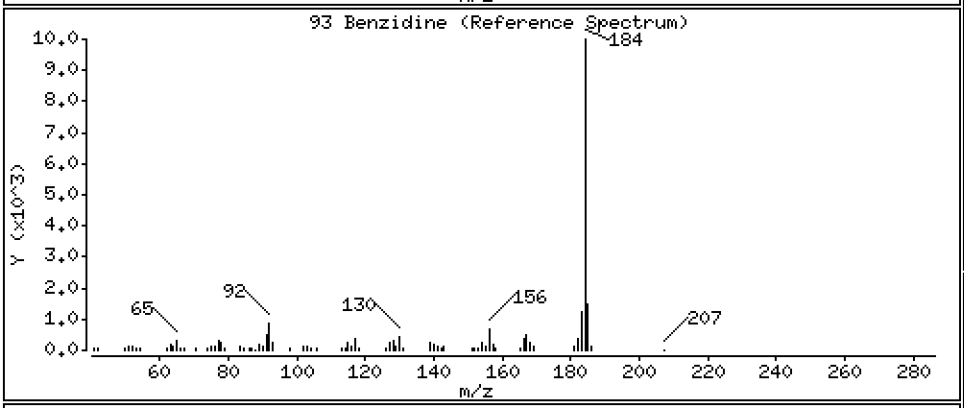
Concentration: 0.02220 ug/mL

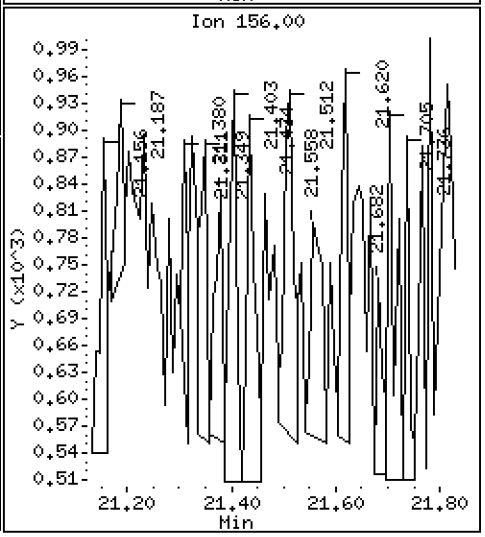


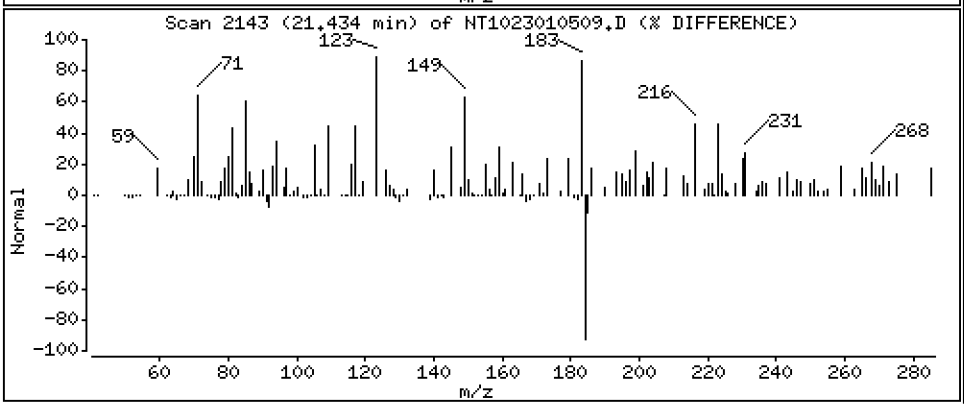












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

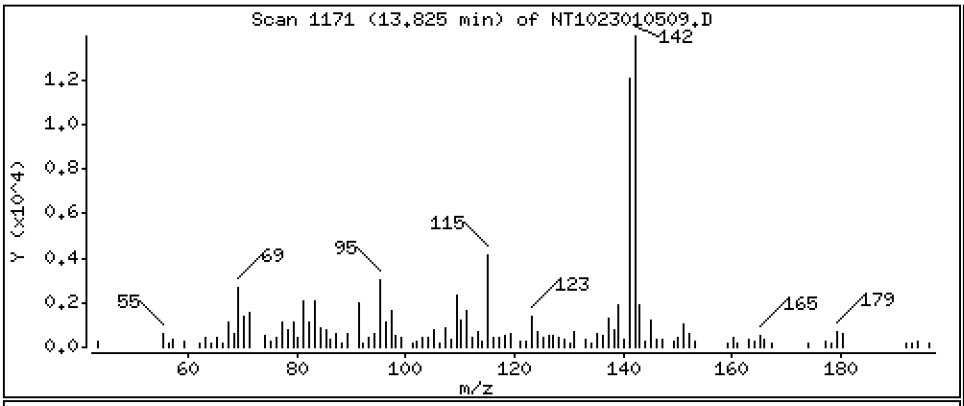
Operator: VTS

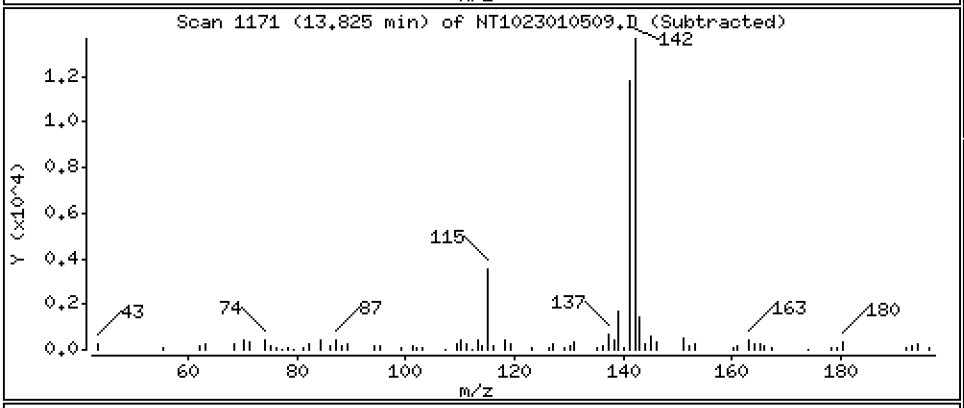
Column phase: ZB-5msi

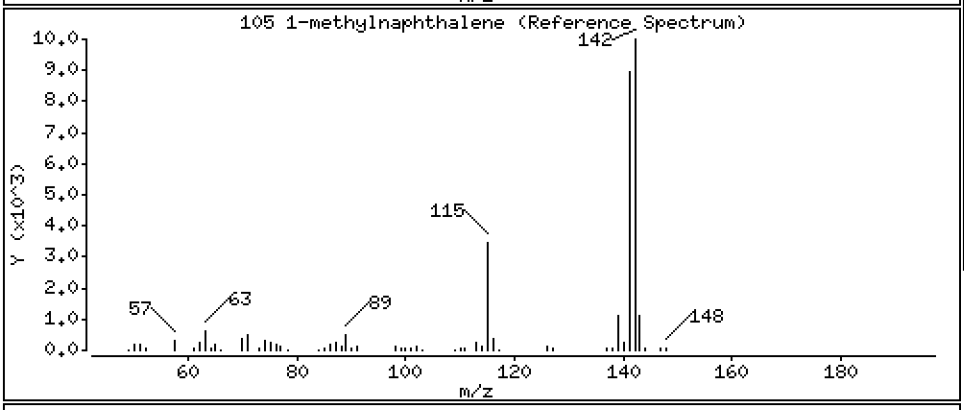
Column diameter: 0.25

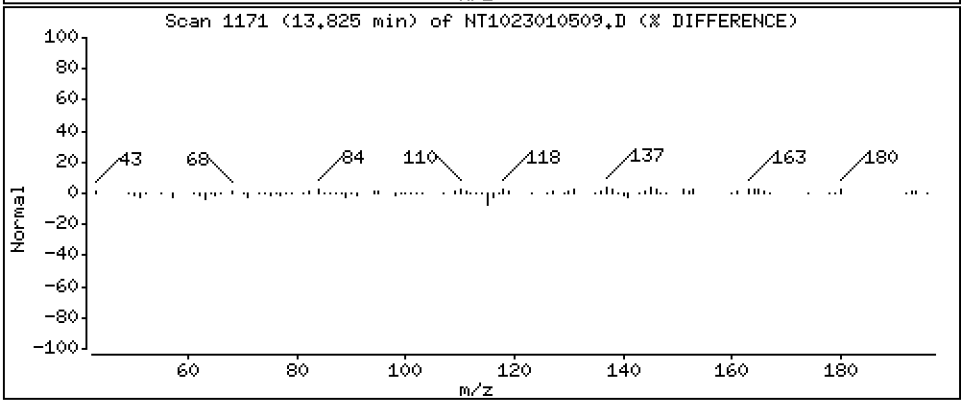
105 1-methylnaphthalene

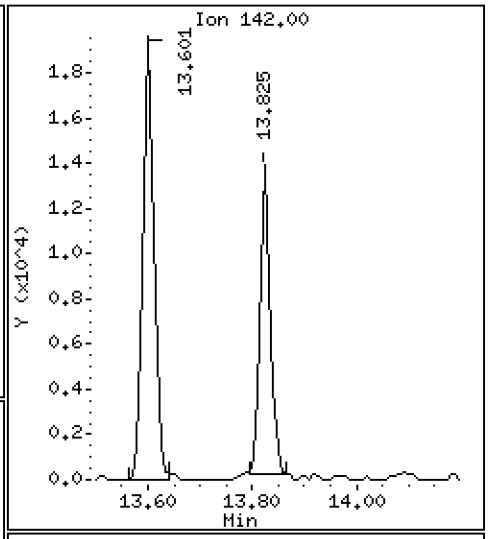
Concentration: 0.3586 ug/mL

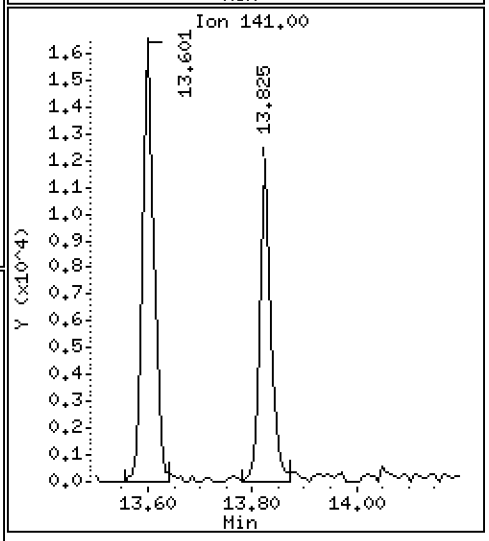












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

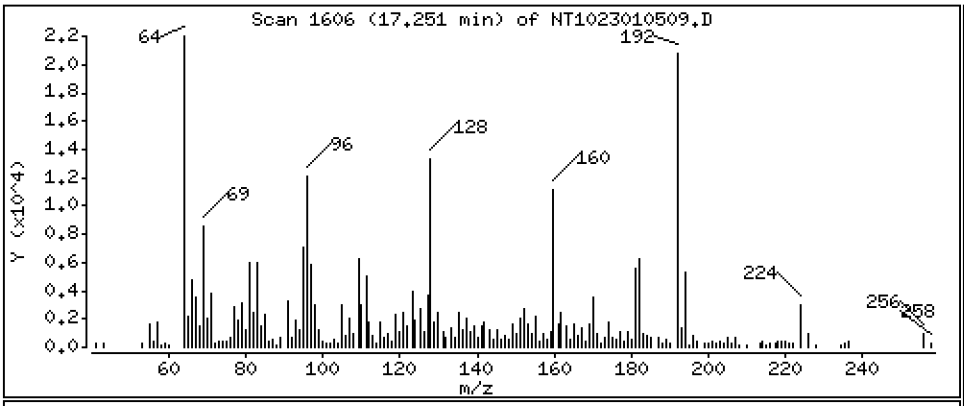
Operator: VTS

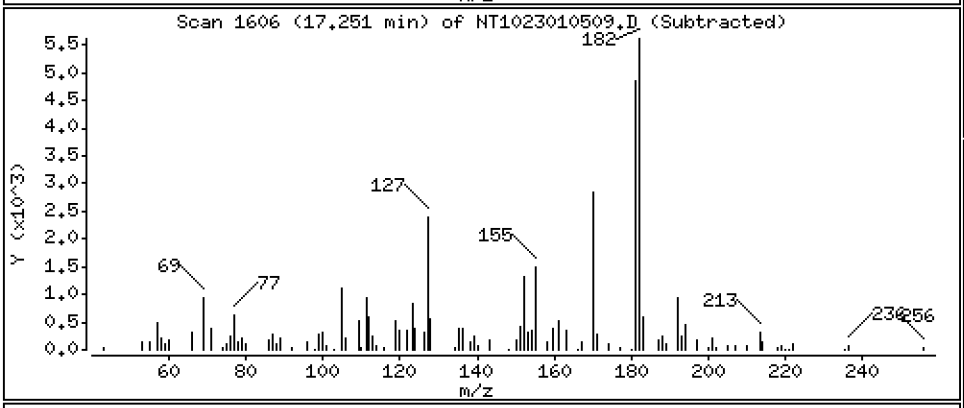
Column phase: ZB-5msi

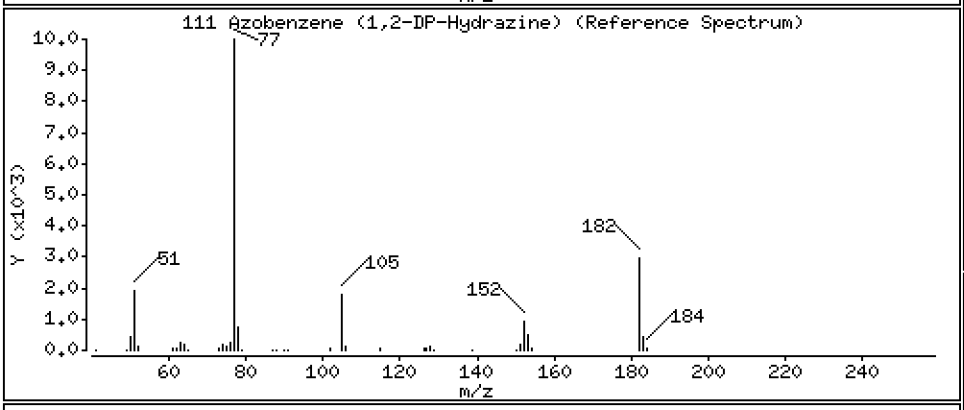
Column diameter: 0.25

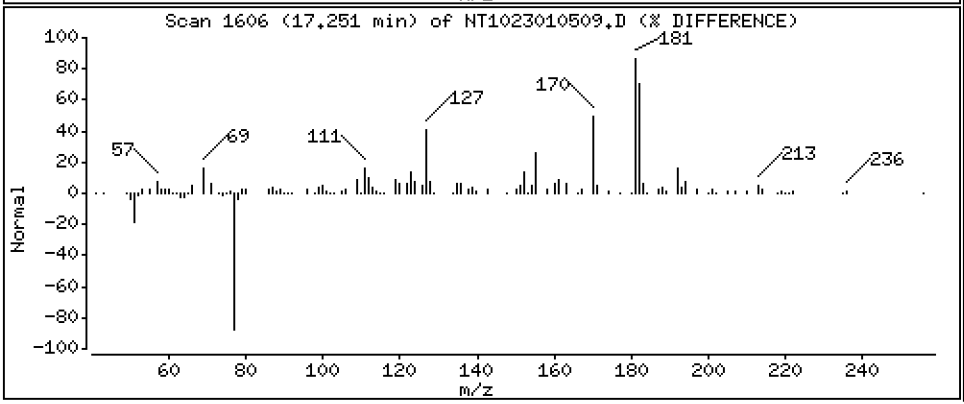
111 Azobenzene (1,2-DP-Hydrazine)

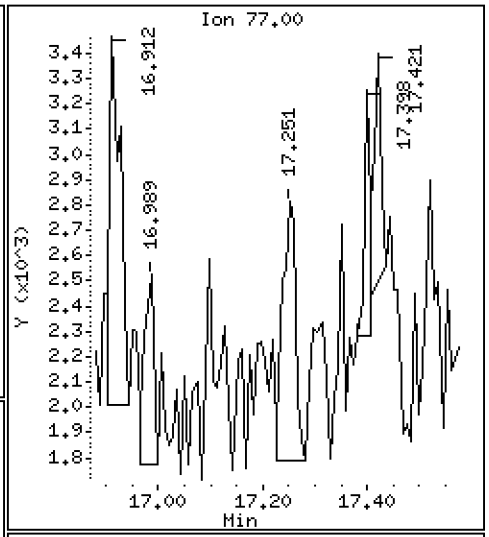
Concentration: 0.03788 ug/mL

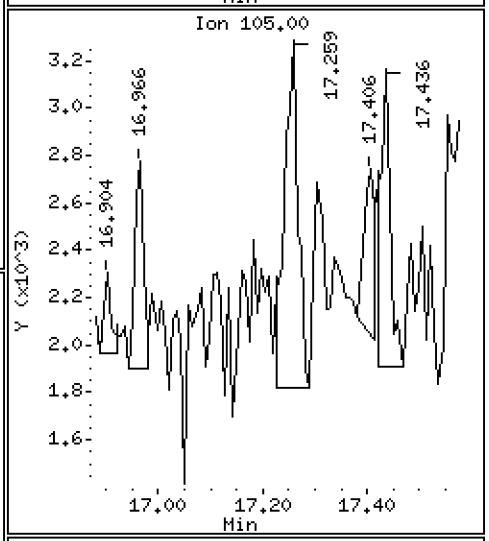


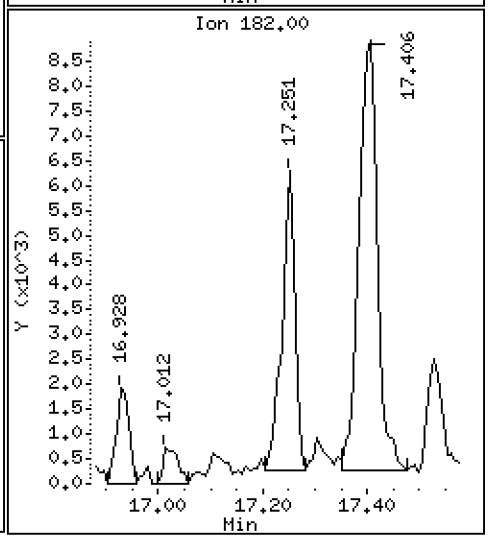












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Date : 05-JAN-2023 18:31

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-09

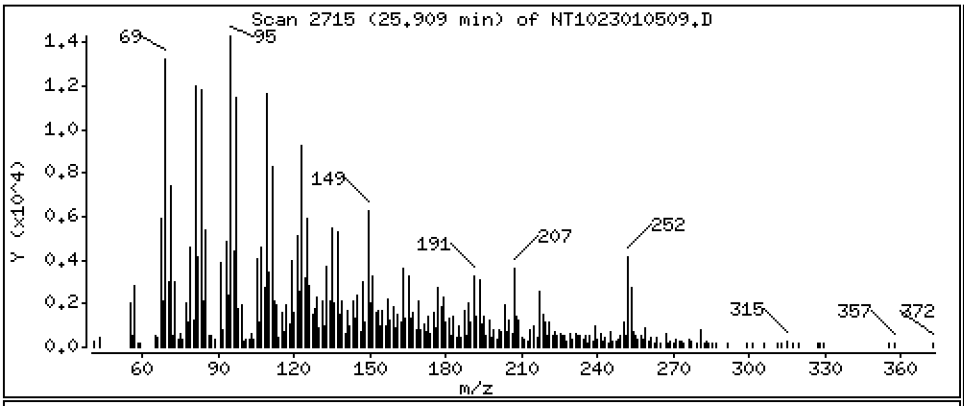
Operator: VTS

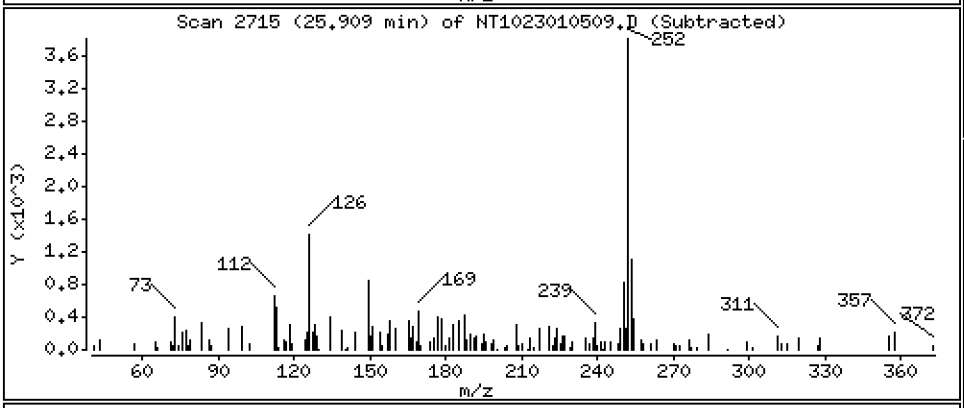
Column phase: ZB-5msi

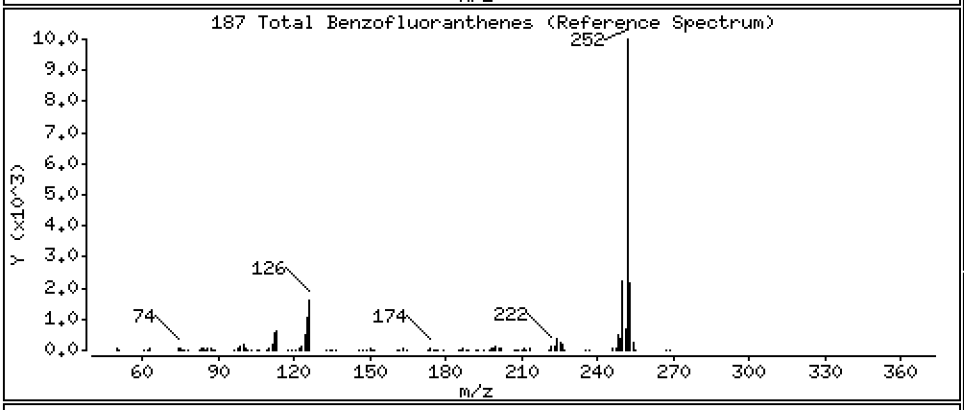
Column diameter: 0.25

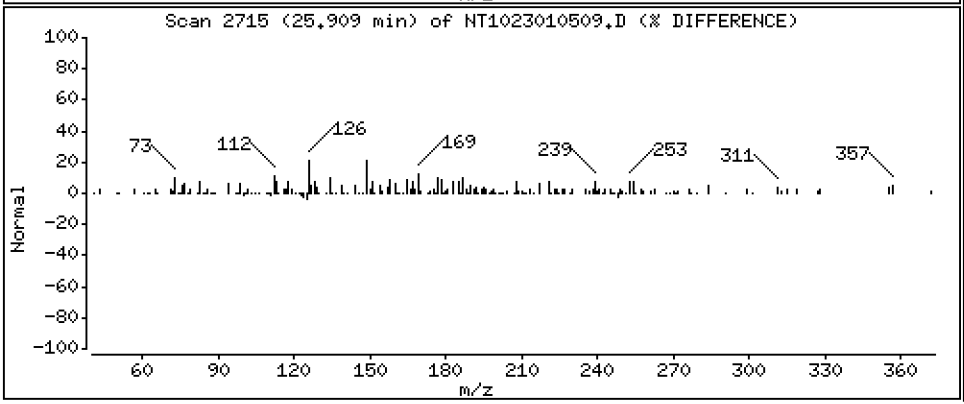
187 Total Benzofluoranthenes

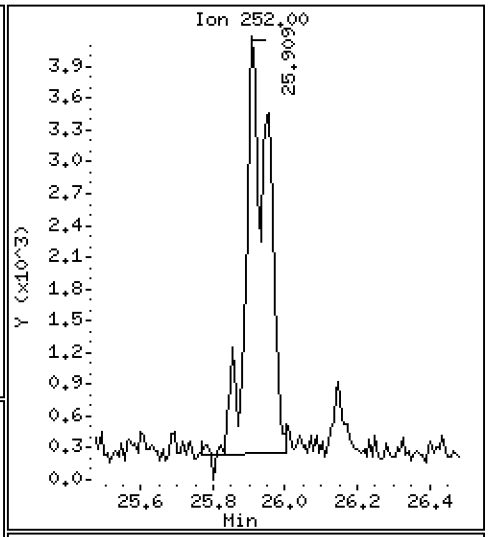
Concentration: 0.6021 ug/mL

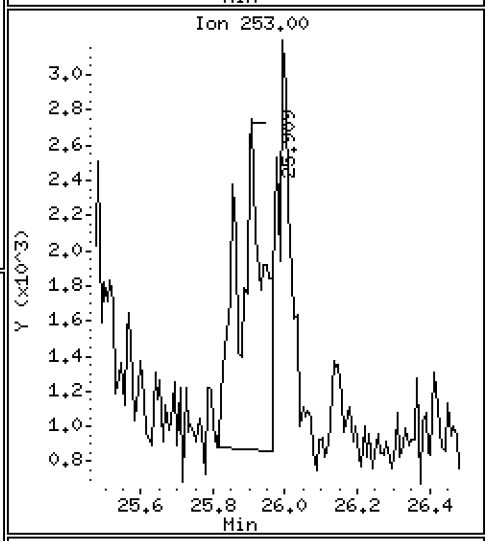


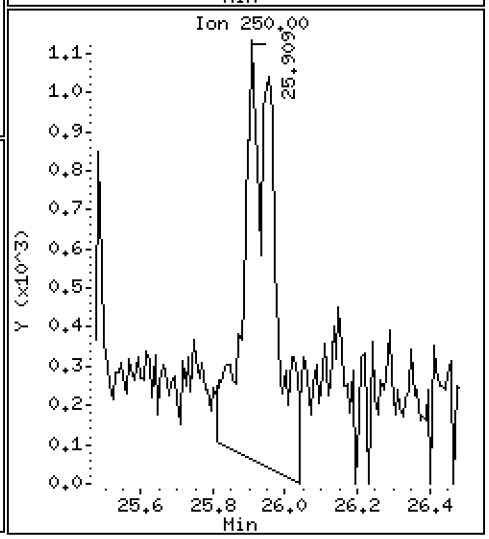












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010509.D
Lab Smp Id: 22L0246-09
Inj Date : 05-JAN-2023 18:31
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-09
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 9
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	152336	5.88243	5.882
$	2 Phenol-d5	99	9.005	9.012	(0.931)	178581	5.75702	5.757
	3 Phenol	94	9.028	9.036	(0.934)	5418	0.18705	0.1871
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	190459	7.00486	7.005
	4 Bis(2-Chloroethyl)ether	93	9.028	9.205	(0.934)	180	0.00695	0.006946
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	9.701	9.623	(1.003)	585	0.01934	0.01934
*	8 1,4-Dichlorobenzene-d4	152	9.669	9.685	(1.000)	79016	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.716	(1.003)	585	0.02249	0.02249
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	73123	4.31742	4.317
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.933	9.941	(1.027)	4511	0.33372	0.3337
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	10.151	10.158	(1.050)	1682	0.08632	0.08632
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	10.764	10.500	(1.113)	12396	1.16605	1.166
	15 4-Methylphenol	108	10.415	10.422	(1.077)	13517	1.00290	1.003
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	97003	4.67161	4.672
	19 Nitrobenzene	77	10.779	10.810	(0.886)	584	0.03229	0.03229
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.476	11.442	(0.944)	193	0.01164	0.01164
	22 2,4-Dimethylphenol	107	11.476	11.476	(0.944)	2771	0.11552	0.1155
	23 Bis(2-Chloroethoxy)methane	93	11.620	11.671	(0.955)	339	0.01632	0.01632
	24 Benzoic acid	105	11.688	11.671	(0.961)	1588	0.16089	0.1609
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.162	12.185	(1.000)	310562	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.004)	197137	2.88676	2.887
	29 4-Chloroaniline	127	12.208	12.339	(1.004)	27306	1.03048	1.030
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	13.268	13.291	(1.091)	249	0.01291	0.01291
	32 2-Methylnaphthalene	142	13.600	13.624	(1.118)	28266	0.52333	0.5233
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	220849	4.91500	4.915
	37	2-Chloronaphthalene	162	14.661	14.622	(0.928)	118	0.00294	0.002939
	38	2-Nitroaniline	65	14.932	14.862	(0.946)	478	0.08913	0.08913
	39	Dimethylphthalate	163	15.264	15.280	(0.967)	2414	0.06600	0.06600
	40	Acenaphthylene	152	15.473	15.497	(0.980)	54505	0.94506	0.9451
	41	2,6-Dinitrotoluene	165	15.396	15.427	(0.975)	423	0.05092	0.05092
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	121288	4.00000	
	43	3-Nitroaniline	138	15.690	15.721	(0.994)	1749	0.30506	0.3051
	44	Acenaphthene	153	15.853	15.876	(1.004)	11434	0.35725	0.3573
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.185	16.208	(1.025)	12575	0.25857	0.2586
	47	4-Nitrophenol	109	15.992	16.038	(1.013)	725	0.16790	0.1679
	48	2,4-Dinitrotoluene	165	16.208	16.247	(1.026)	601	0.05391	0.05391
	50	Diethylphthalate	149	16.718	16.742	(1.059)	21739	0.56353	0.5635
	49	Fluorene	166	16.896	16.919	(1.070)	23764	0.33285	0.3328
	51	4-Chlorophenyl-phenylether	204	16.896	16.896	(1.070)	372	0.01622	0.01622
	52	4-Nitroaniline	138	16.973	17.004	(1.075)	316	0.02000	0.02000
	53	4,6-Dinitro-2-methylphenol	198	17.035	17.097	(0.904)	78	0.00968	0.009684
	54	N-Nitrosodiphenylamine	169	17.182	17.143	(0.912)	6163	0.17391	0.1739
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	21035	8.35153	8.352
	56	4-Bromophenyl-phenylether	248	17.922	17.914	(0.951)	635	0.06806	0.06806
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	18.532	18.594	(0.984)	435	0.31577	0.3158
*	59	Phenanthrene-d10	188	18.842	18.865	(1.000)	191461	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.003)	70390	1.51537	1.515
	61	Anthracene	178	18.981	19.005	(1.007)	13283	0.29294	0.2929
	62	Carbazole	167	19.291	19.322	(1.024)	3769	0.07714	0.07714
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	6119	0.09544	0.09544
	64	Fluoranthene	202	21.279	21.271	(0.892)	49943	1.19862	1.199
	65	Pyrene	202	21.681	21.689	(0.909)	54327	1.29666	1.297
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	113612	4.46529	4.465
	67	Butylbenzylphthalate	149	22.758	22.851	(0.954)	1734	0.07793	0.07793
	68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	9831	0.34635	0.3463
*	69	Chrysene-d12	240	23.849	23.873	(1.000)	105002	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.757	23.780	(0.996)	252	0.02415	0.02415
	71	Chrysene	228	23.896	23.919	(1.002)	11491	0.44211	0.4421
	72	bis(2-Ethylhexyl)phthalate	149	23.849	23.865	(0.958)	11840	0.28199	0.2820
*	134	Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	273402	4.00000	
	73	Di-n-octylphthalate	149	24.686	24.941	(0.991)	929	0.01469	0.01469
	74	Benzo(b)fluoranthene	252	25.909	25.932	(0.966)	8672	0.28367	0.2837
	75	Benzo(k)fluoranthene	252	25.955	25.978	(0.968)	7254	0.24354	0.2435
	76	Benzo(a)pyrene	252	26.877	26.691	(1.003)	258277	8.85949	8.859
*	77	Perylene-d12	264	26.807	26.822	(1.000)	84869	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.915	29.946	(1.116)	3067	0.13384	0.1338
	79	Dibenzo(a,h)anthracene	278	29.962	29.970	(1.118)	167	0.00927	0.009275
	80	Benzo(g,h,i)perylene	276	30.863	30.886	(1.151)	5460	0.28880	0.2888
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.028	9.128	(0.934)	180	0.00664	0.006639
	93	Benzidine	184	21.434	21.480	(0.899)	428	0.02220	0.02220
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.825	13.848	(1.137)	18926	0.35861	0.3586
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.251	17.228	(1.092)	1812	0.03788	0.03788

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.978	(0.966)	17428	0.60207	0.6021
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010509.D
Lab Smp Id: 22L0246-09
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	79016	-3.31
27 Naphthalene-d8	307034	153517	614068	310562	1.15
42 Acenaphthene-d10	140557	70279	281114	121288	-13.71
59 Phenanthrene-d10	243620	121810	487240	191461	-21.41
69 Chrysene-d12	144852	72426	289704	105002	-27.51
134 Di-n-octylphthala	387178	193589	774356	273402	-29.39
77 Perylene-d12	106683	53342	213366	84869	-20.45

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.16	-0.19
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.81	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010509.D

Lab ID: 22L0246-09
nt10.i, ABN.m, 05-JAN-2023 18:31

RT	CO-ELUTION COMPOUNDS
9.701	1,4-Dichlorobenzene and 1,3-Dichlorobenzene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.934	0.950	-0.0168	Bis(2-Chloroethyl)ether
1.003	0.994	0.0096	1,3-Dichlorobenzene
1.113	1.084	0.0290	N-Nitroso-di-n-propylamine
1.004	1.013	-0.0089	4-Chloroaniline
0.946	0.940	0.0058	2-Nitroaniline
0.991	1.001	-0.0093	Di-n-octylphthalate
1.003	0.995	0.0075	Benzo(a)pyrene
0.934	0.943	-0.0089	Aniline

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810B-FD

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-10 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010510.D
% Solids:	65.24	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 19:09
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	15.35 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	499.28	452	90.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

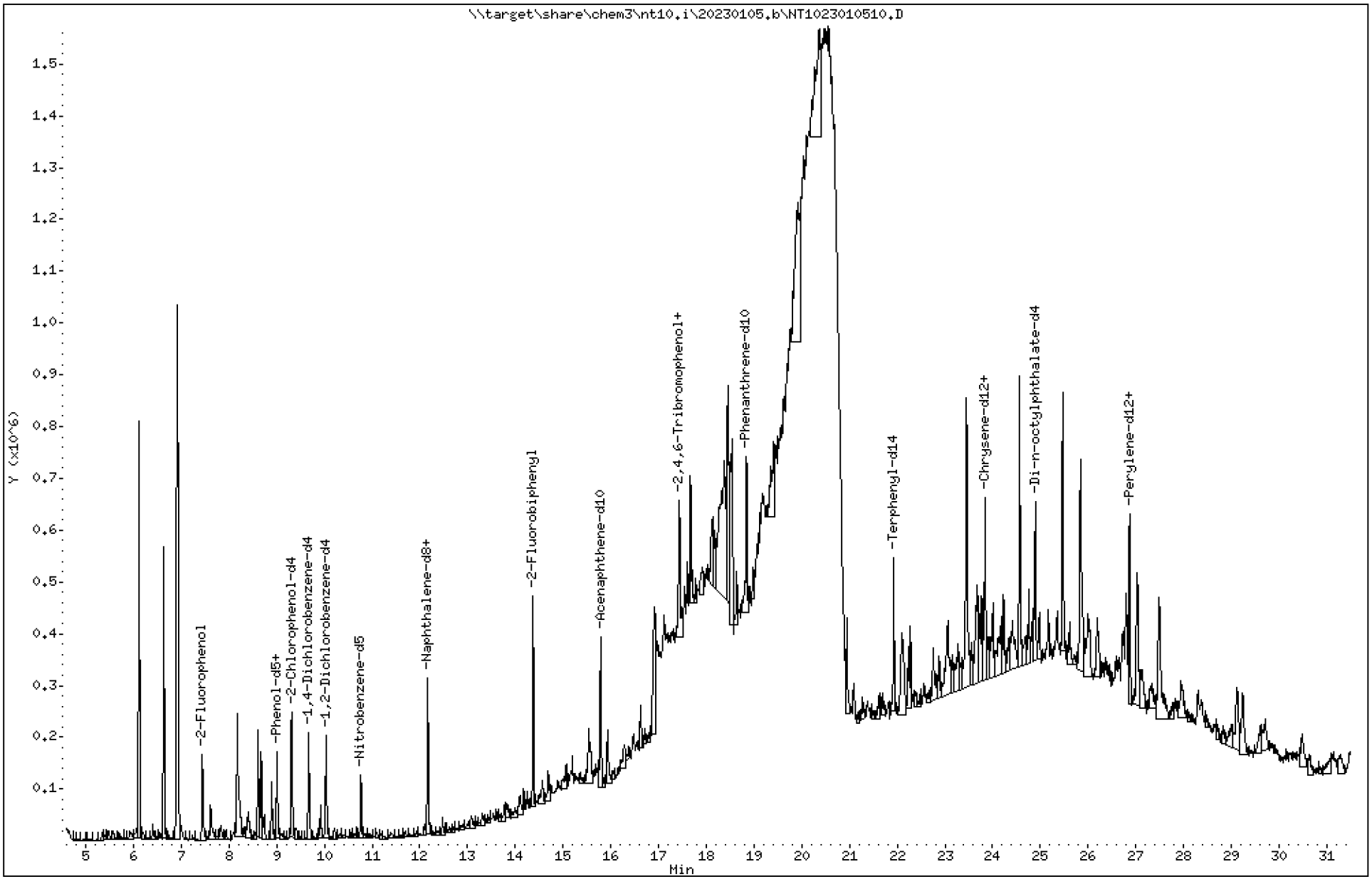
Sample Info: 22L0246-10

Instrument: nt10.i

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

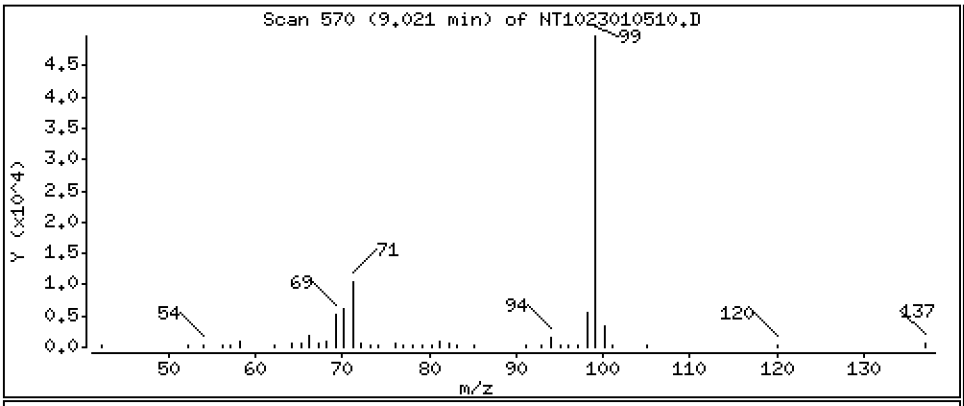
Operator: VTS

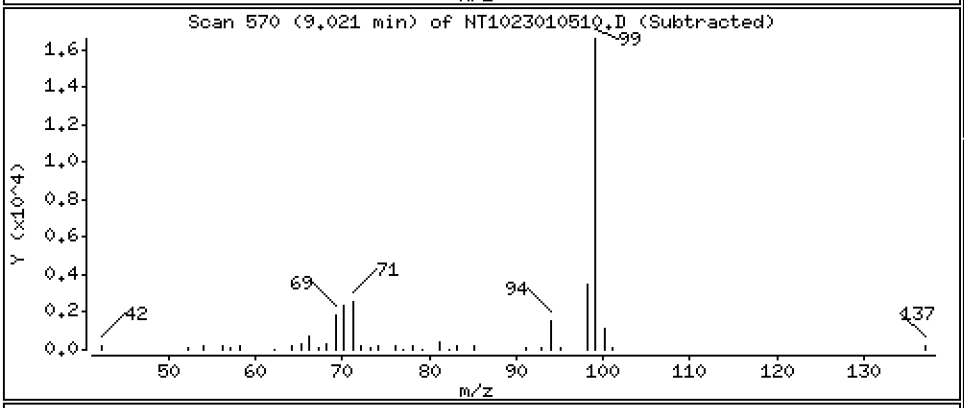
Column phase: ZB-5msi

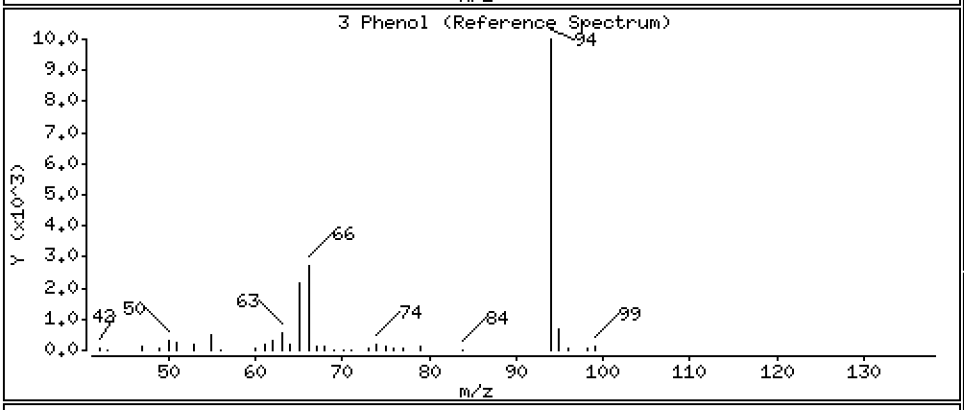
Column diameter: 0.25

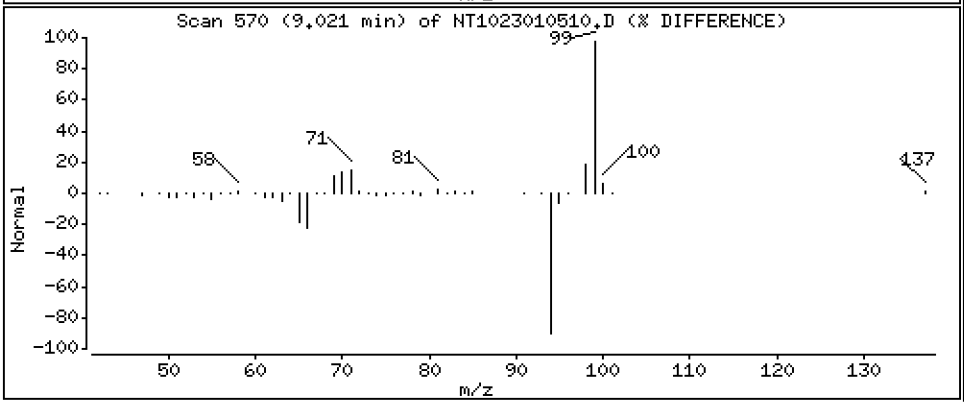
3 Phenol

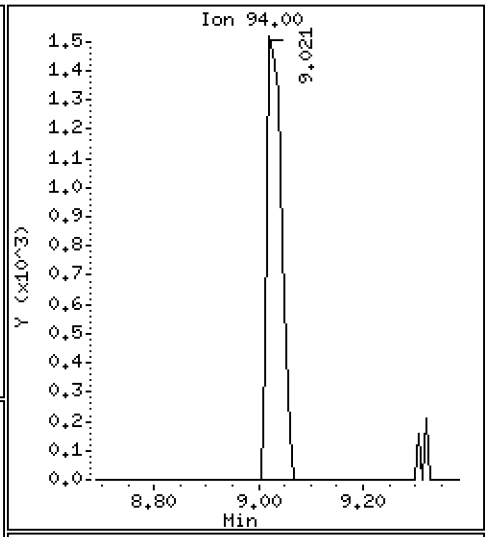
Concentration: 0.09919 ug/mL

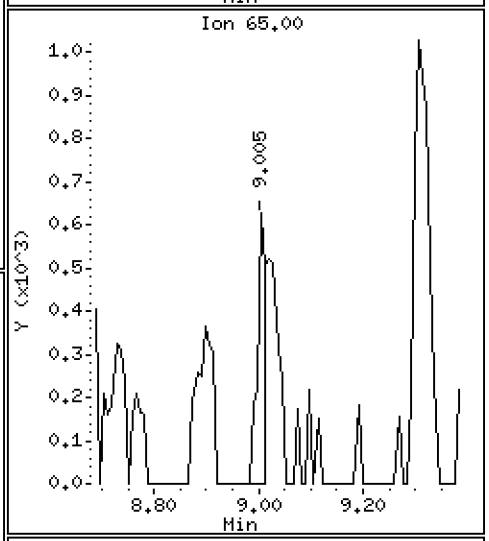


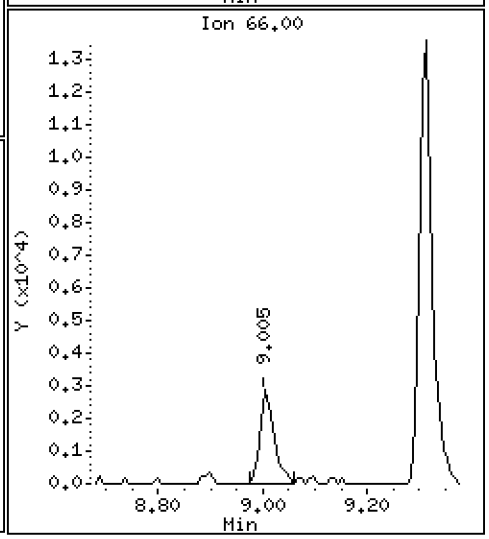












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

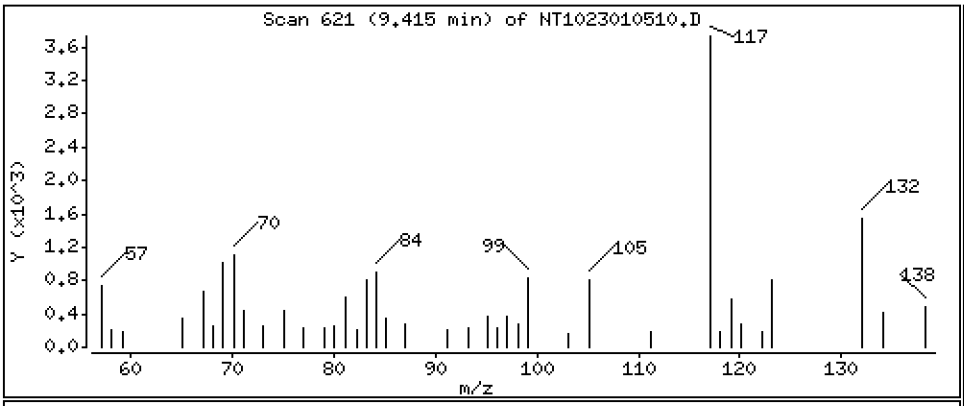
Operator: VTS

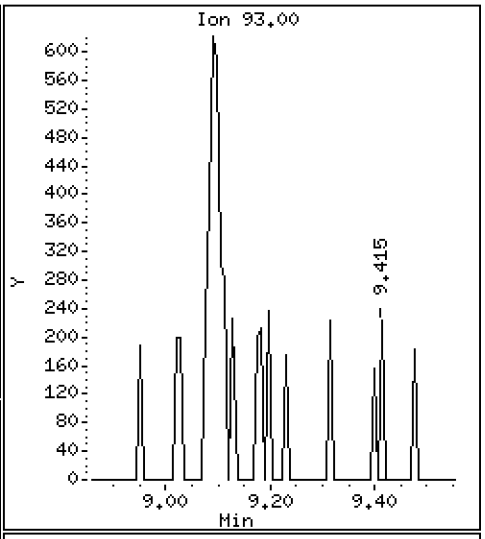
Column phase: ZB-5msi

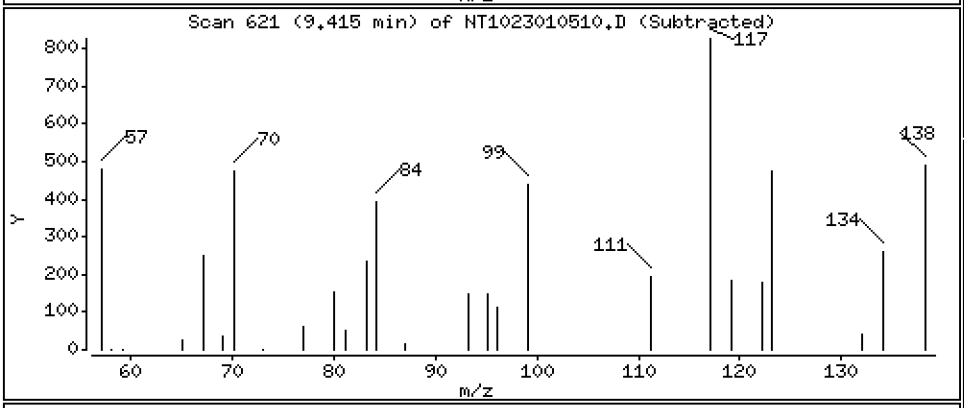
Column diameter: 0.25

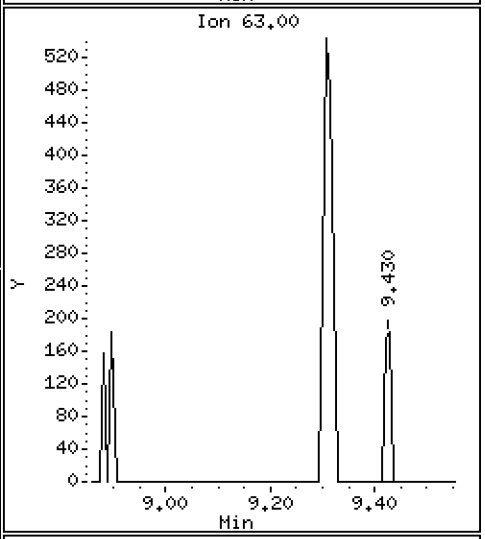
4 Bis(2-Chloroethyl)ether

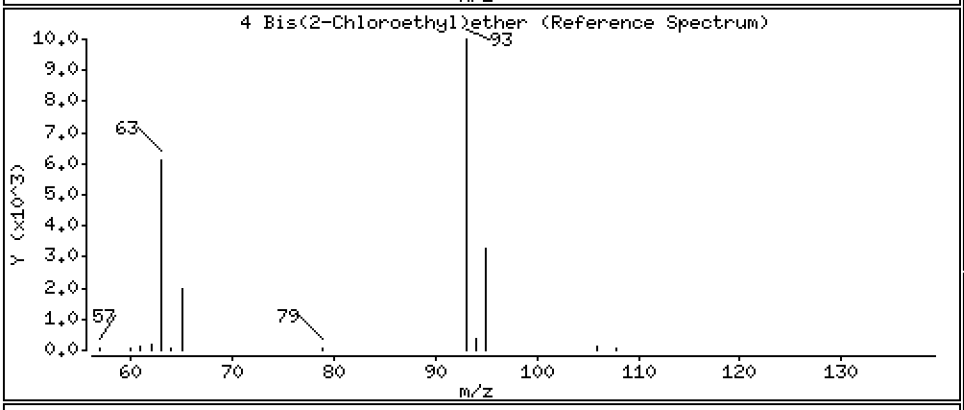
Concentration: 0.004011 ug/mL

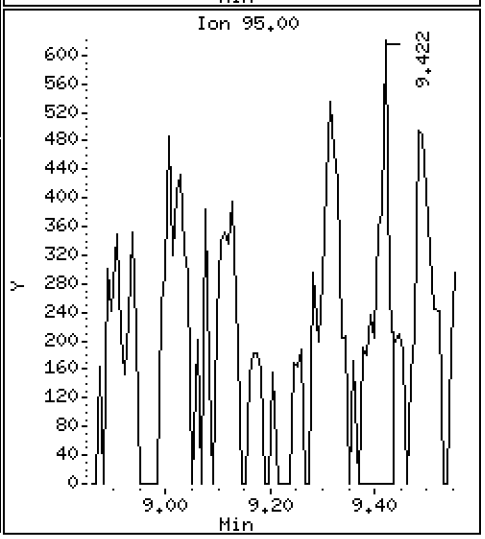


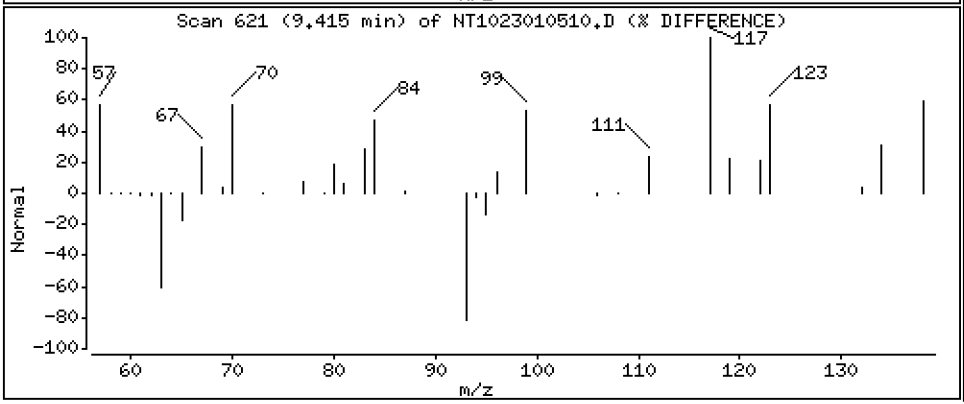












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

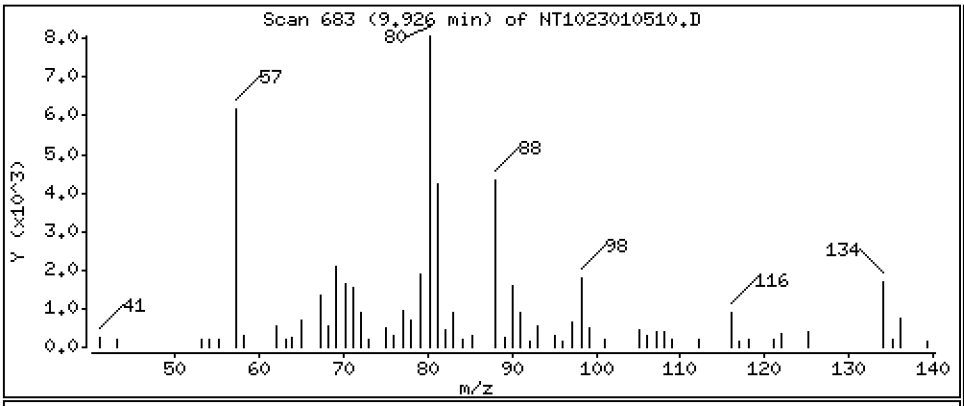
Operator: VTS

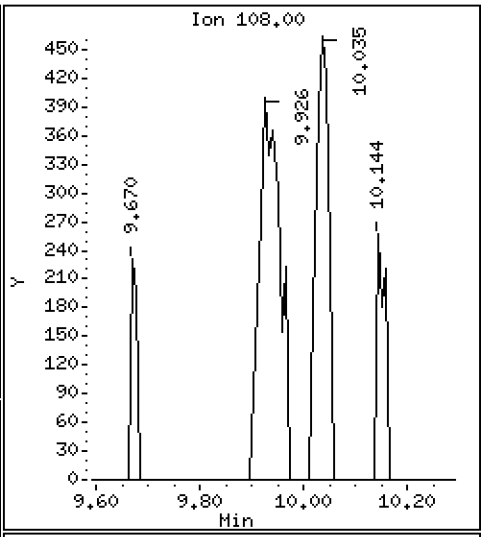
Column phase: ZB-5msi

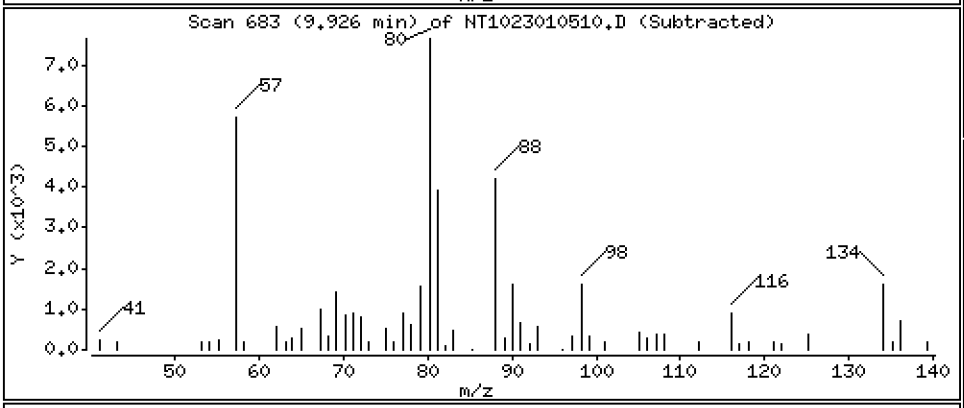
Column diameter: 0.25

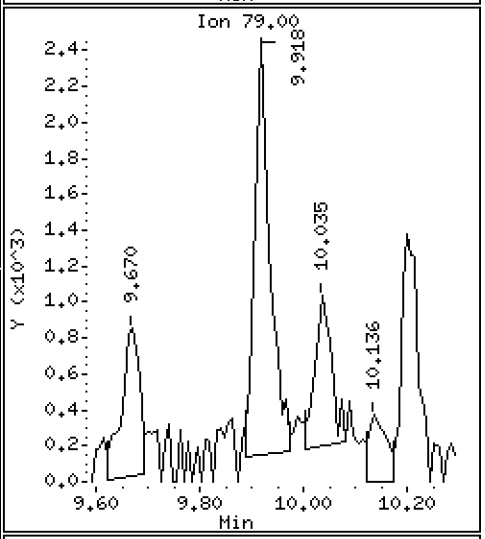
11 Benzyl alcohol

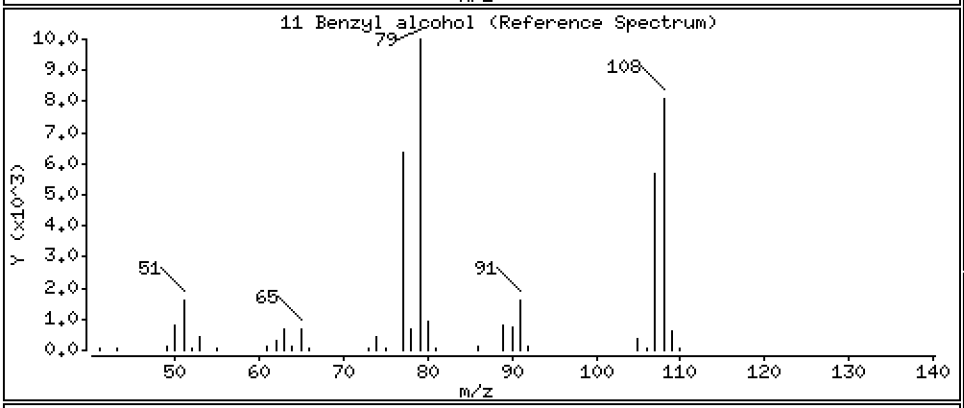
Concentration: 0.08966 ug/mL

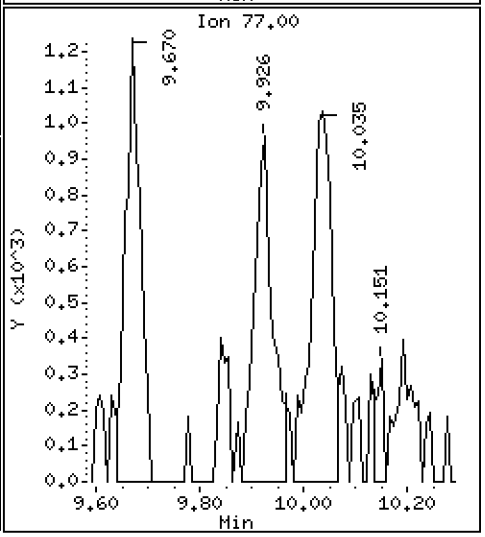


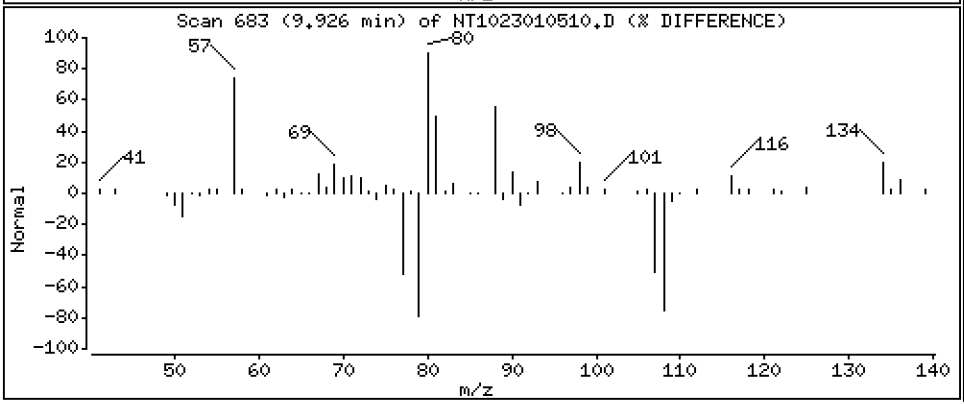












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

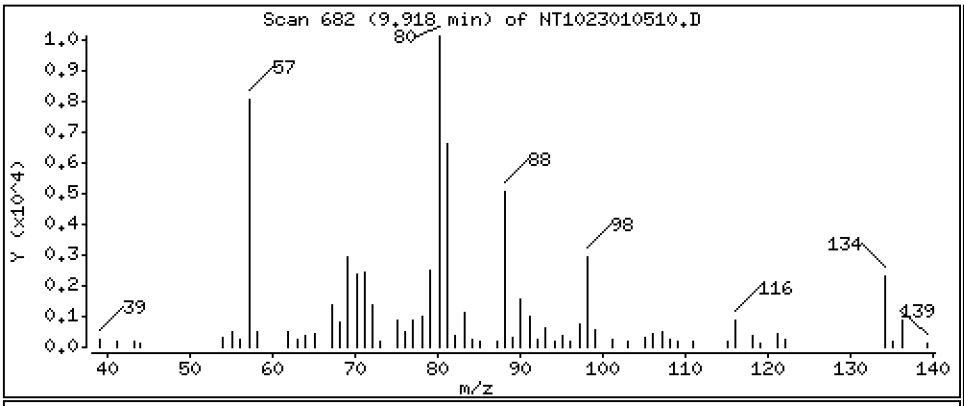
Operator: VTS

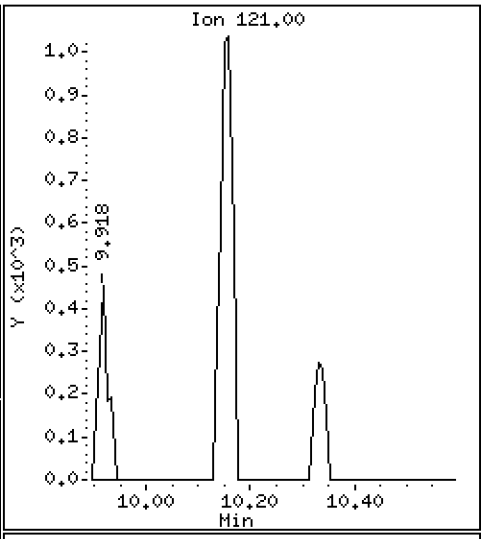
Column phase: ZB-5msi

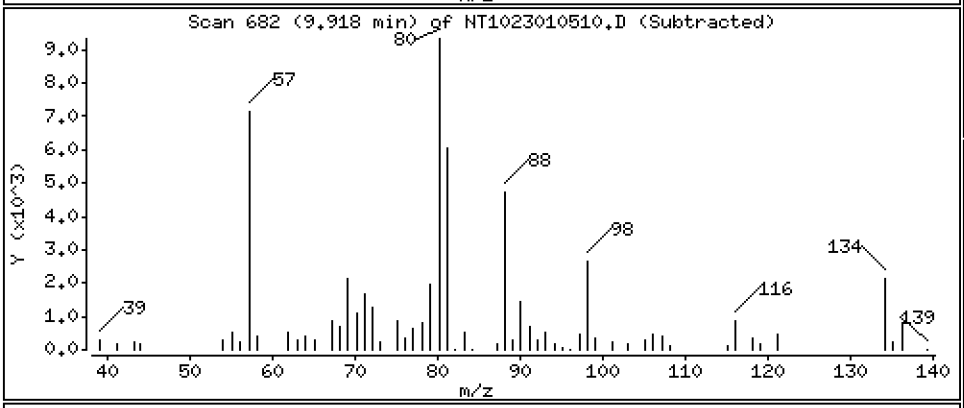
Column diameter: 0.25

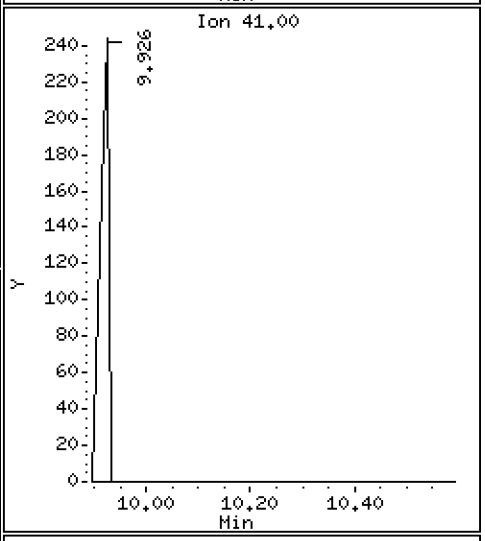
14 2,2'-oxybis(1-Chloropropane)

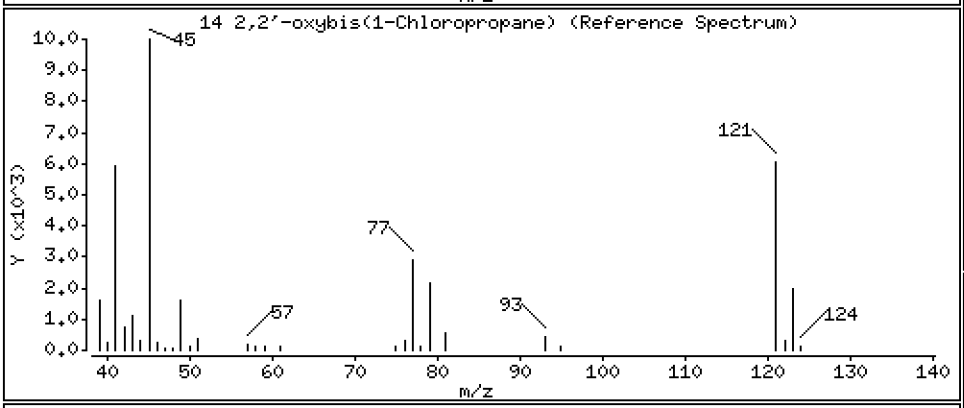
Concentration: 0.07517 ug/mL

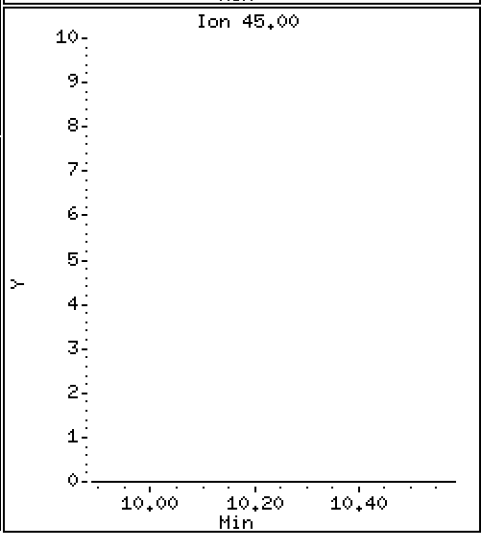


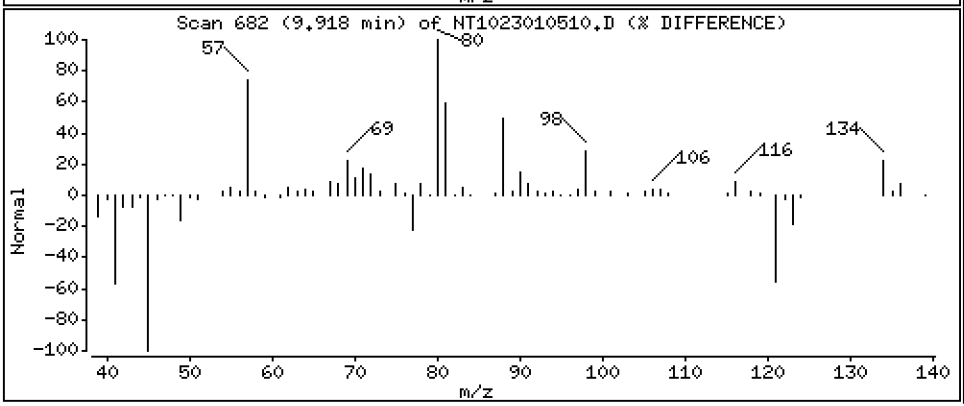












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

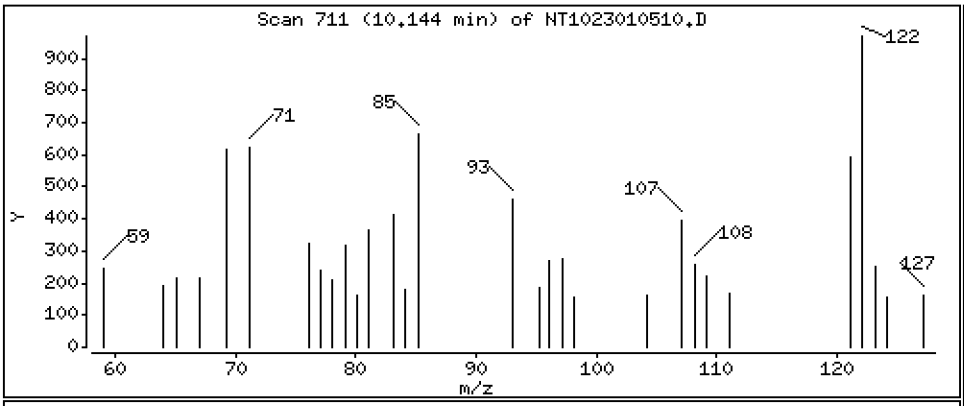
Operator: VTS

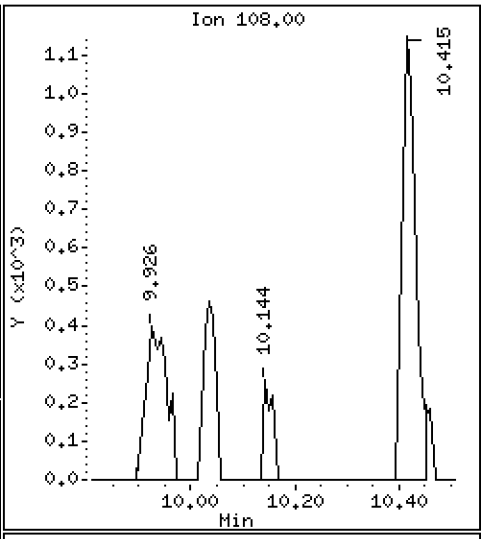
Column phase: ZB-5msi

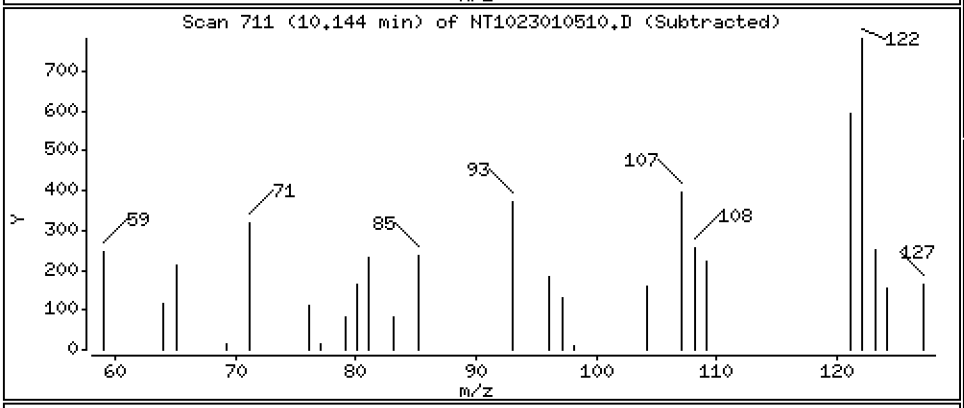
Column diameter: 0.25

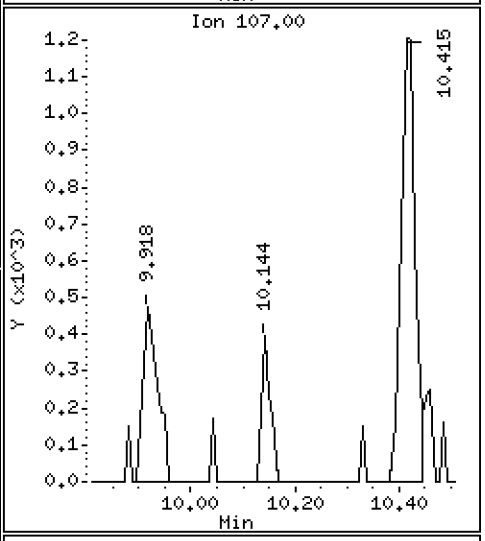
13 2-Methylphenol

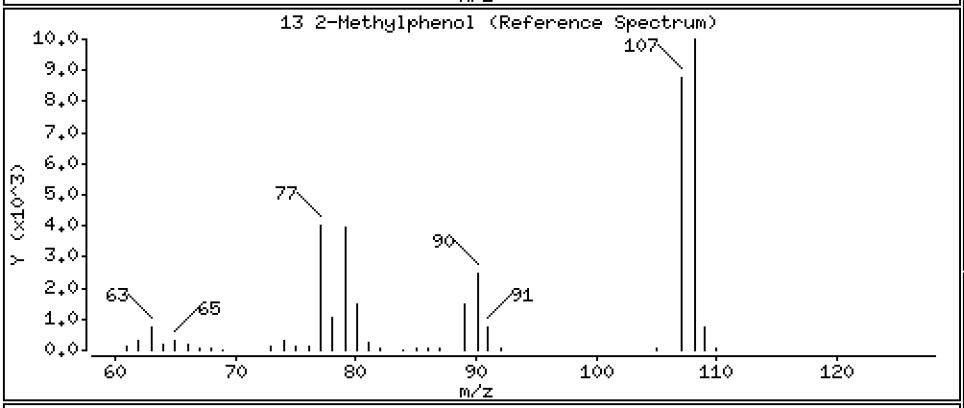
Concentration: 0.01591 ug/mL

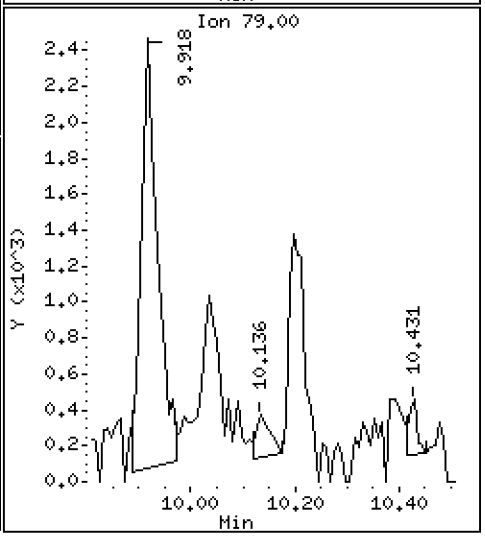


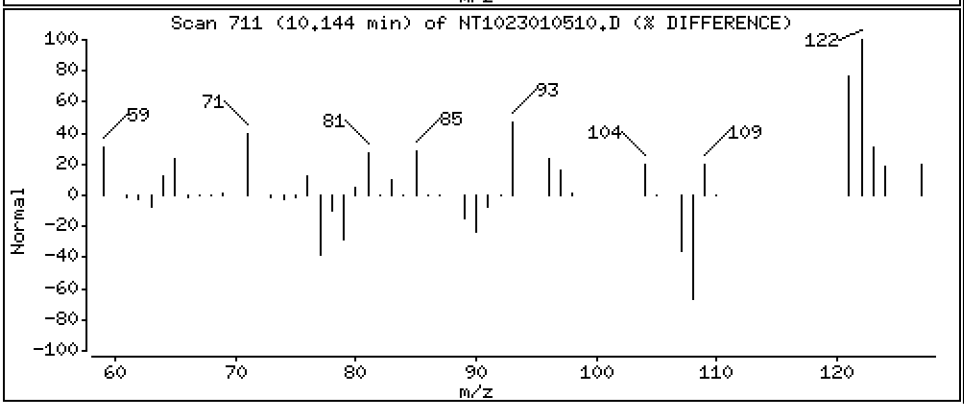












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

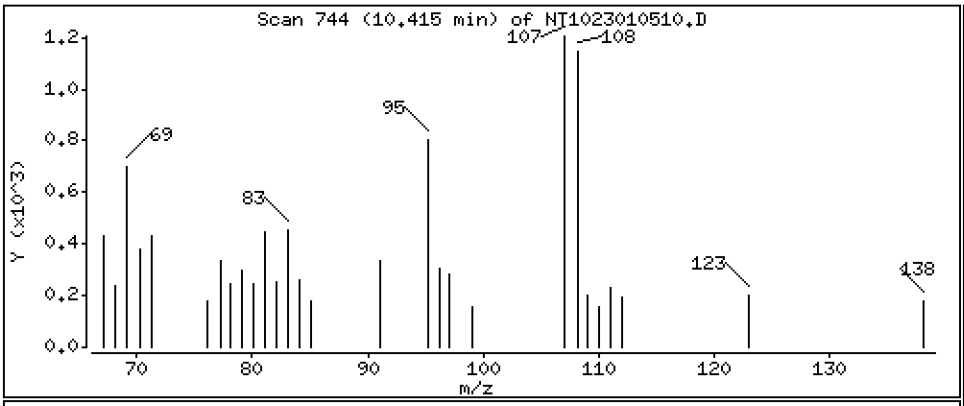
Operator: VTS

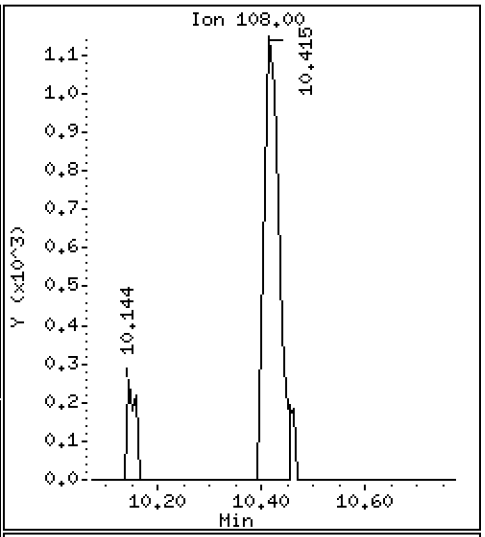
Column phase: ZB-5msi

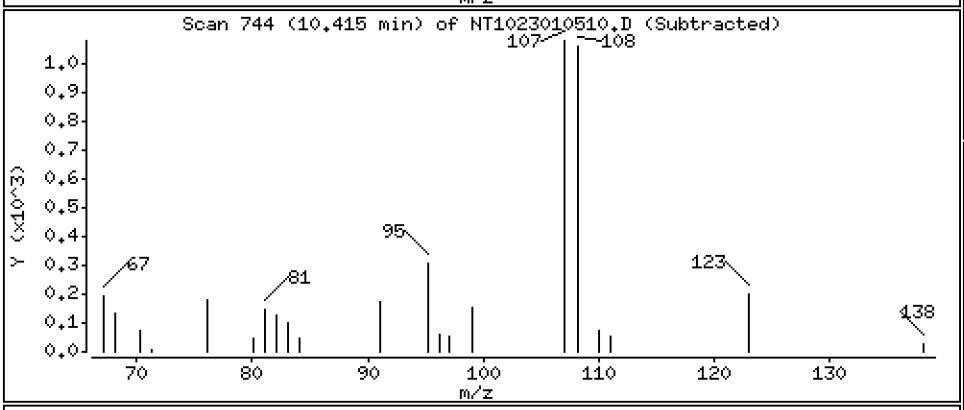
Column diameter: 0.25

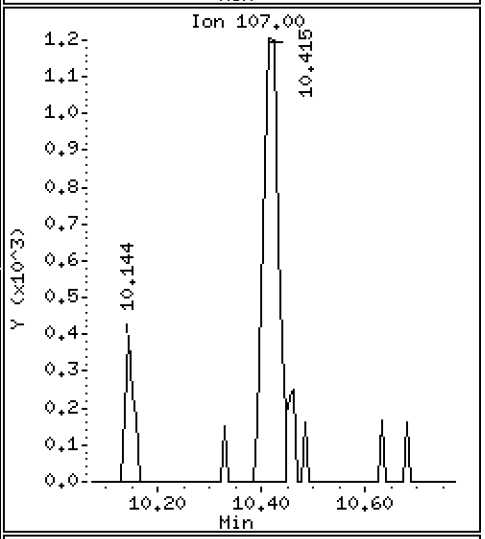
15 4-Methylphenol

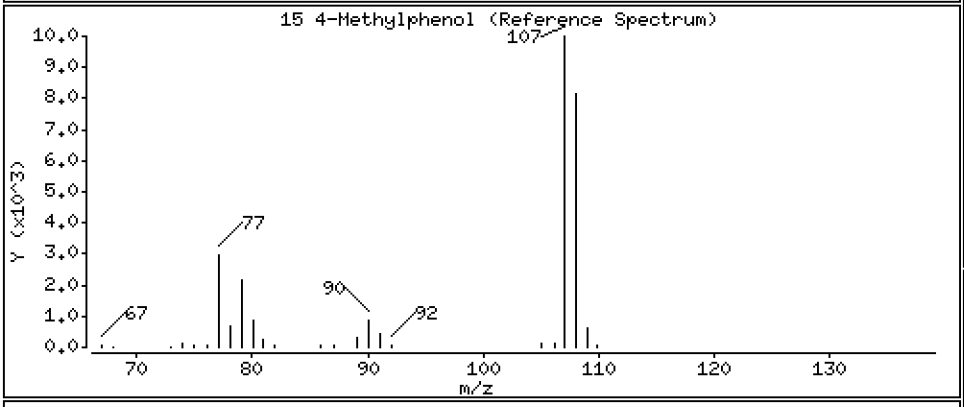
Concentration: 0.1721 ug/mL

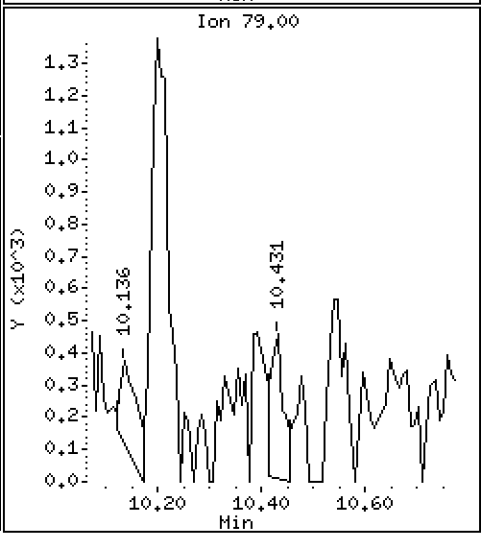


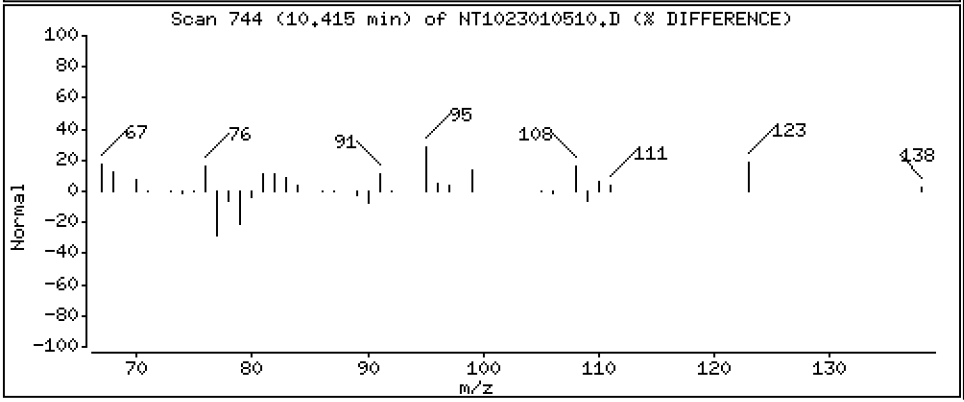












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

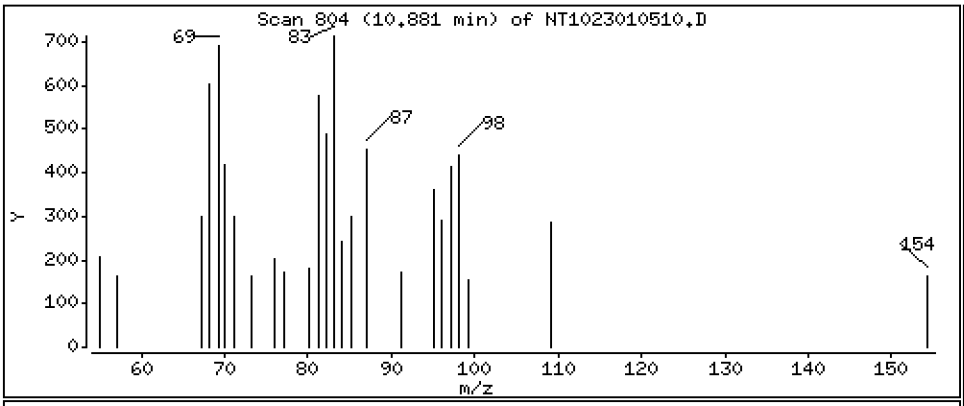
Operator: VTS

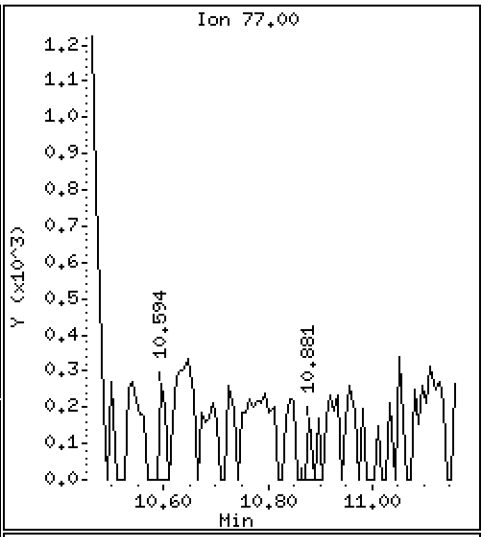
Column phase: ZB-5msi

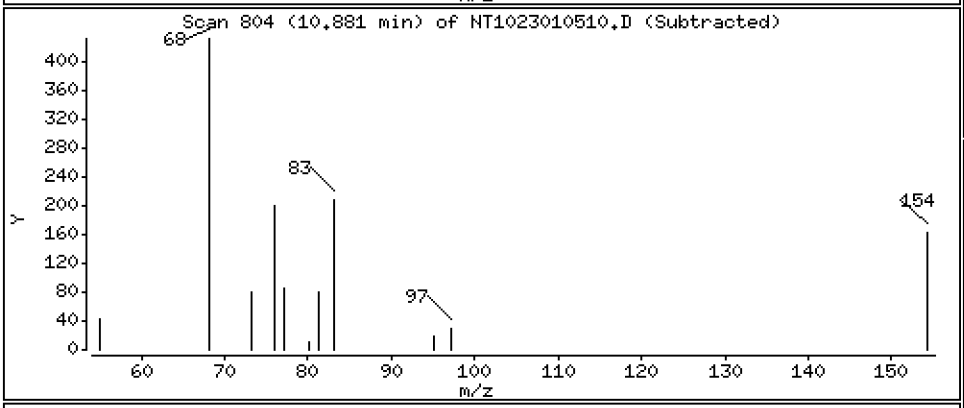
Column diameter: 0.25

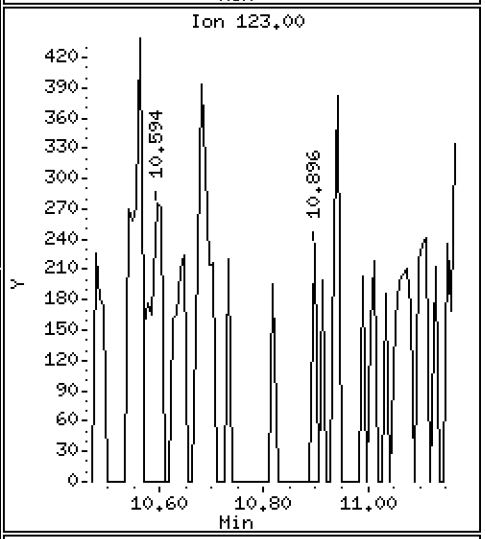
19 Nitrobenzene

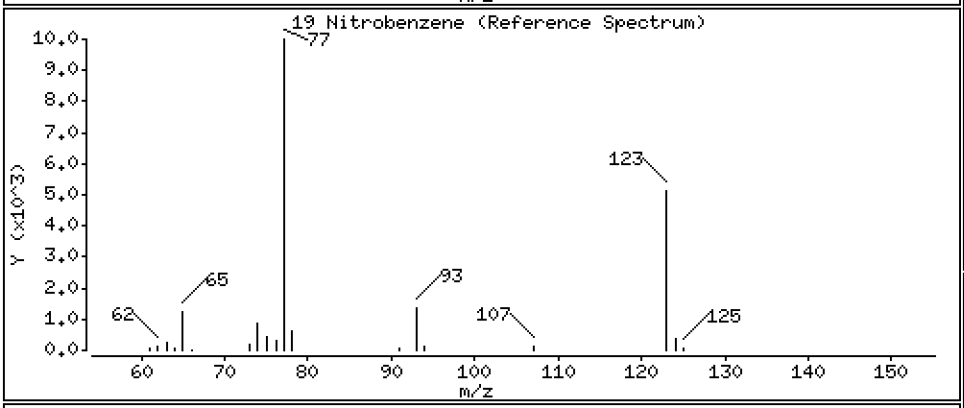
Concentration: 0.008792 ug/mL

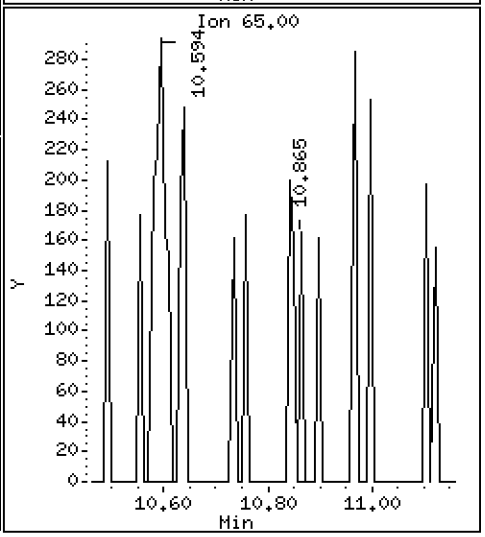


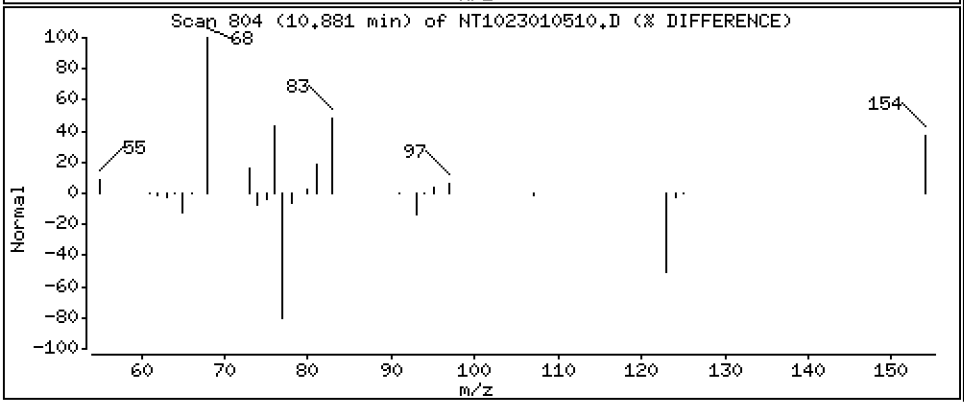












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

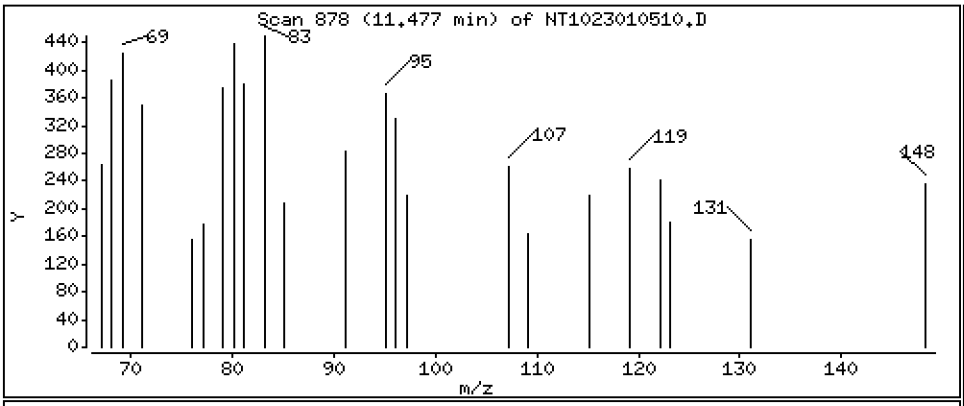
Operator: VTS

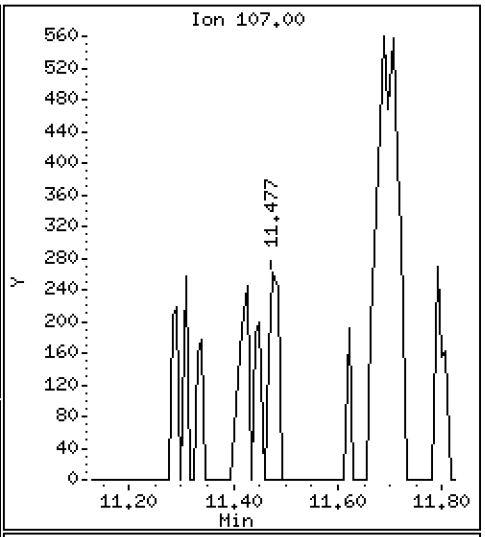
Column phase: ZB-5msi

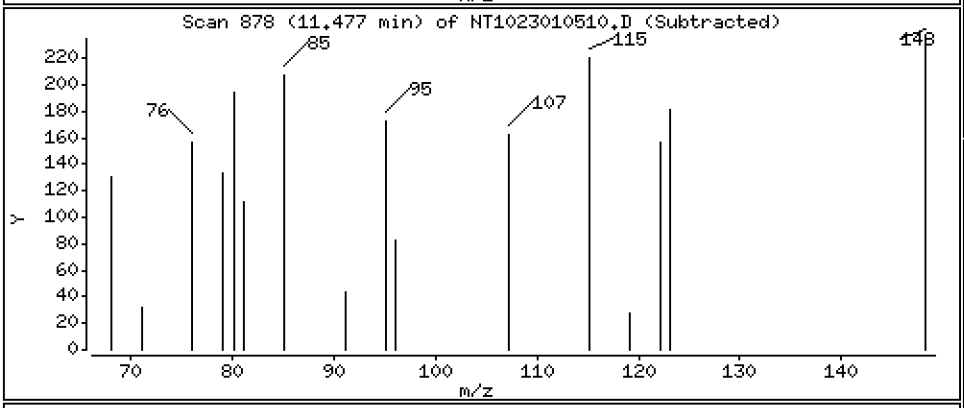
Column diameter: 0.25

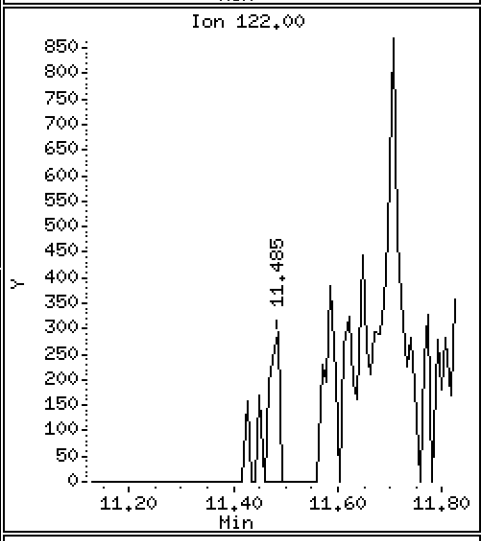
22 2,4-Dimethylphenol

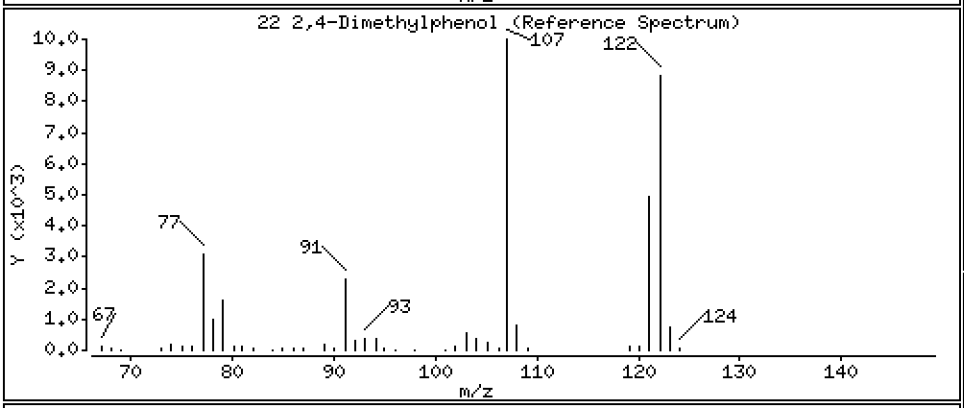
Concentration: 0.01436 ug/mL

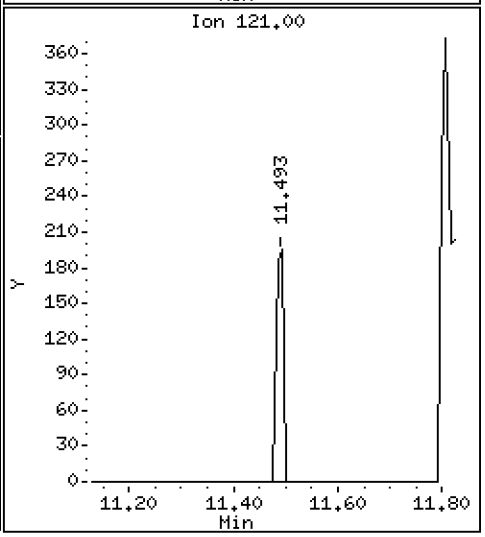


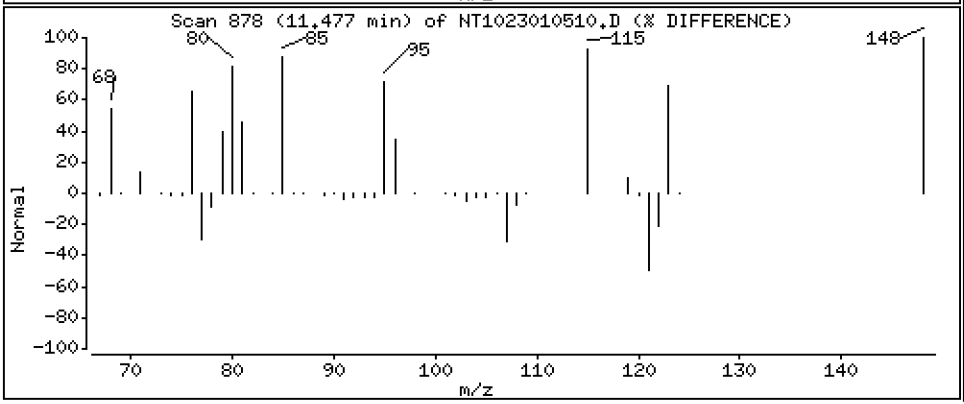












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

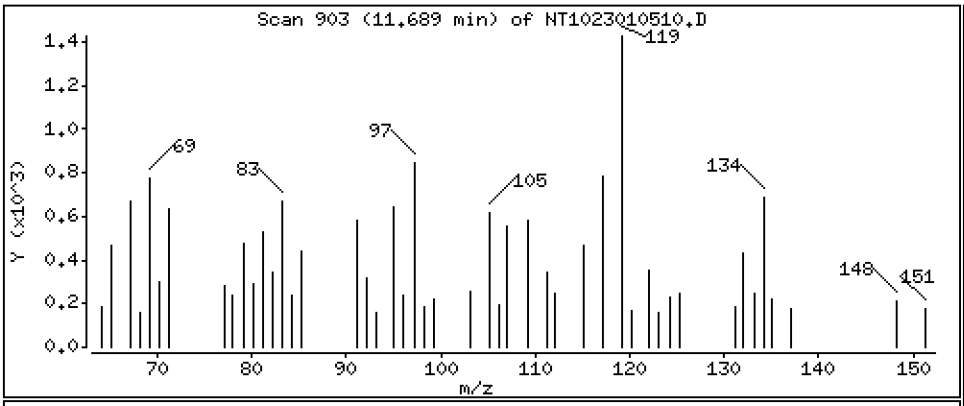
Operator: VTS

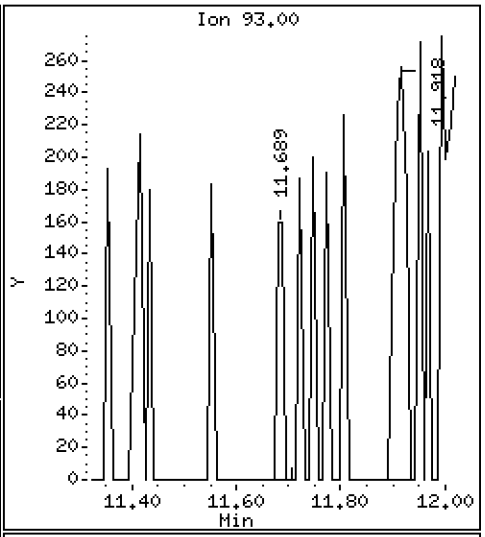
Column phase: ZB-5msi

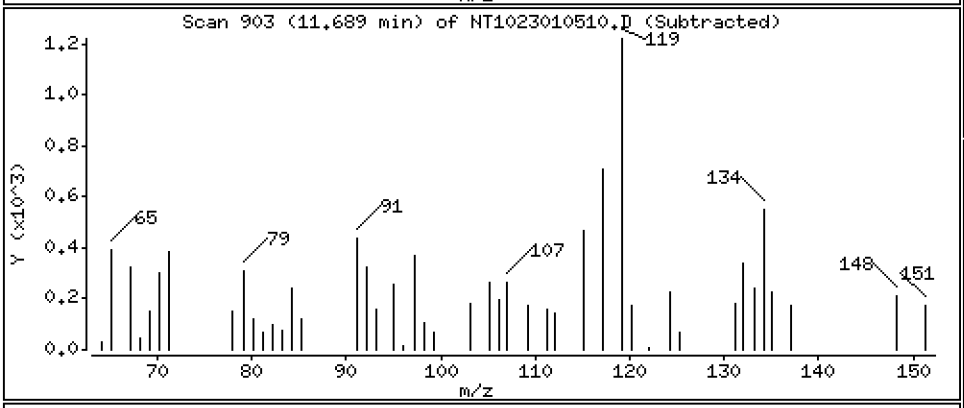
Column diameter: 0.25

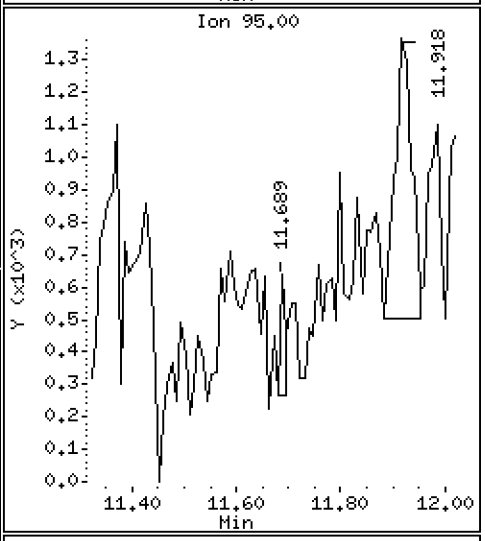
23 Bis(2-Chloroethoxy)methane

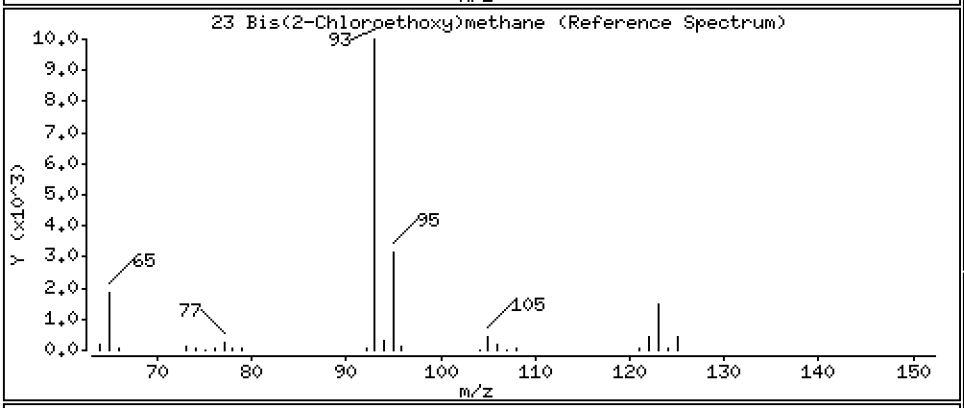
Concentration: 0.007949 ug/mL

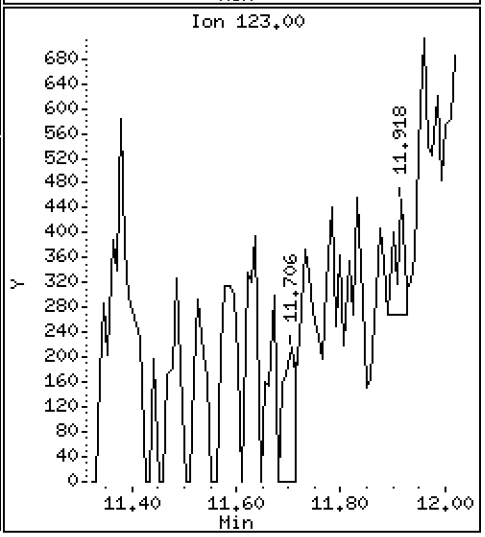


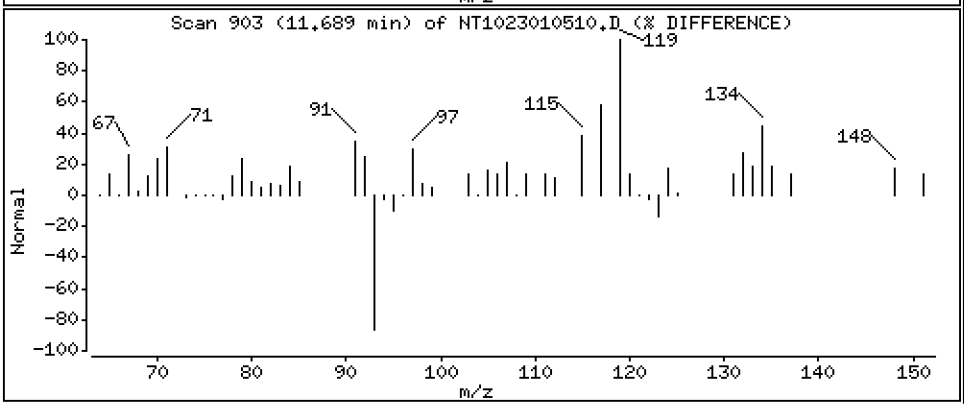












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

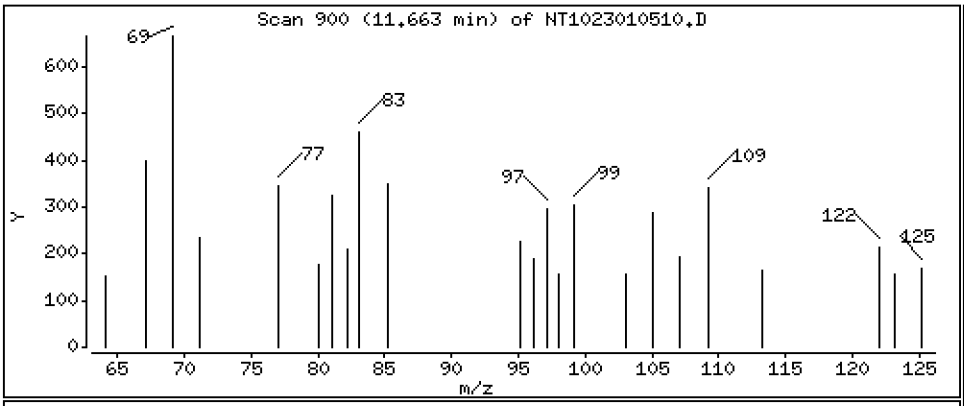
Operator: VTS

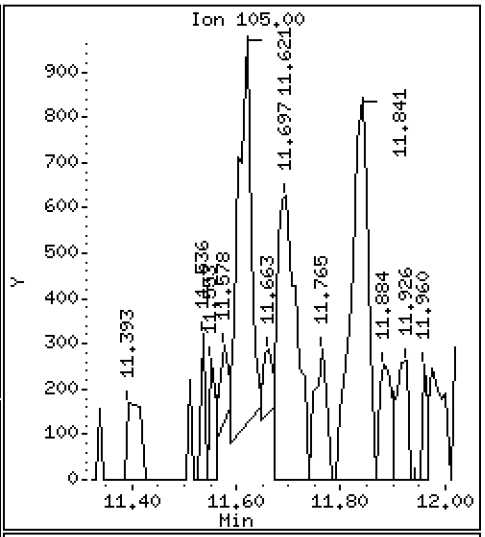
Column phase: ZB-5msi

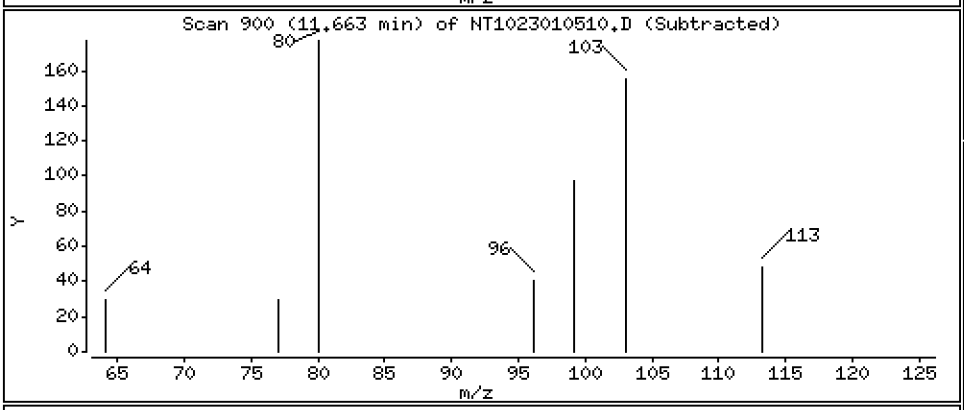
Column diameter: 0.25

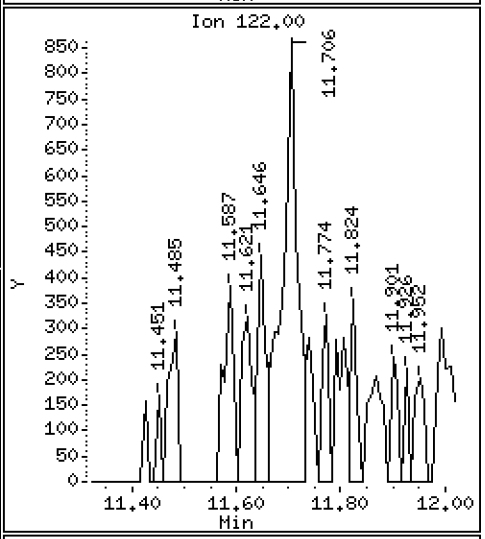
24 Benzoic acid

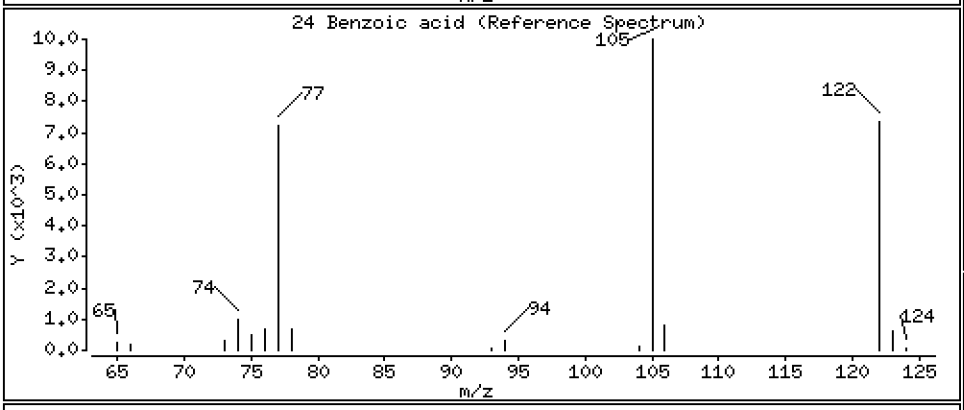
Concentration: 0.02118 ug/mL

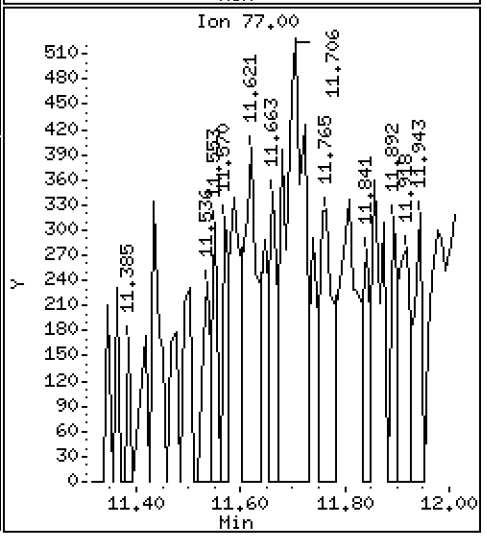


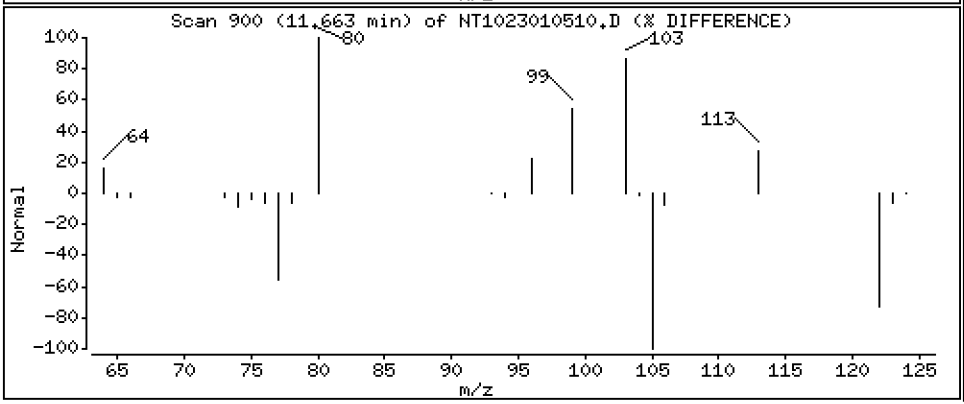












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

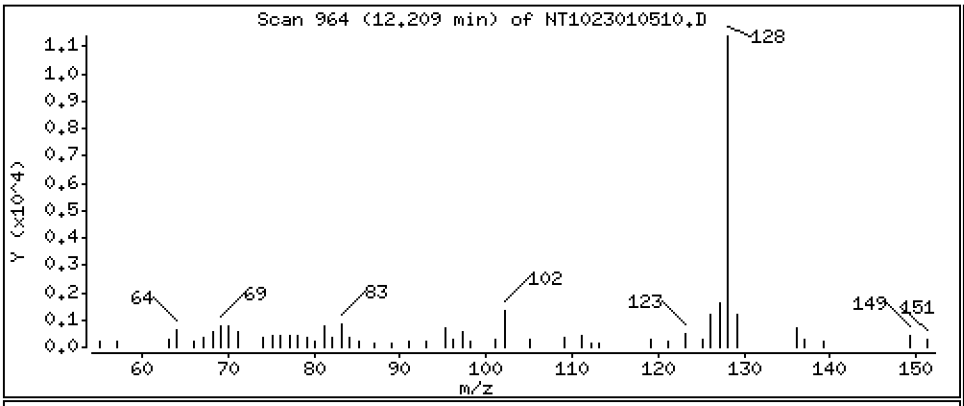
Operator: VTS

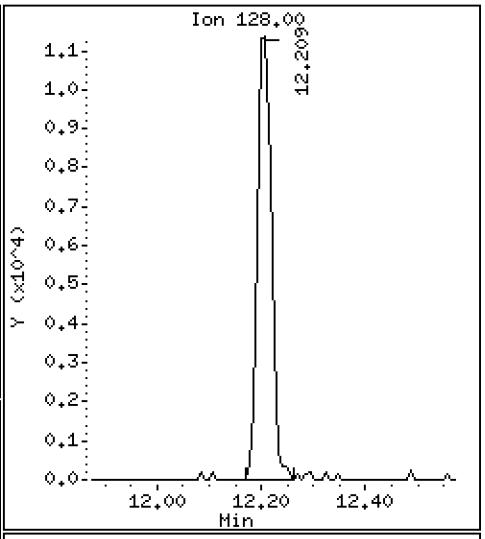
Column phase: ZB-5msi

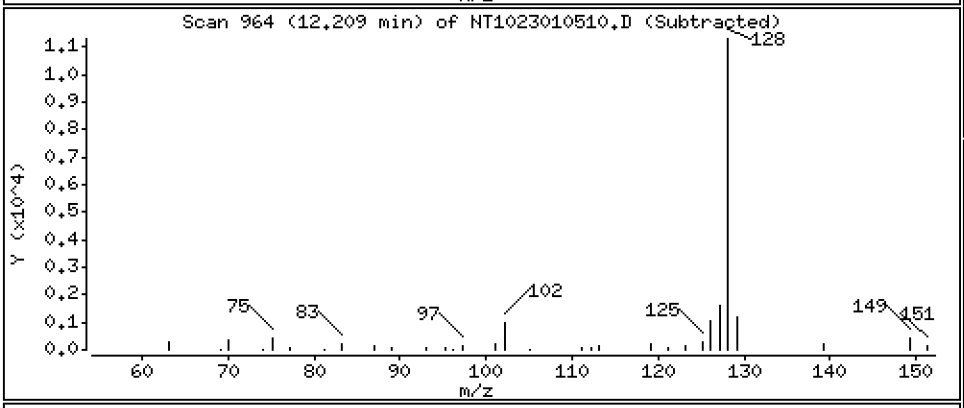
Column diameter: 0.25

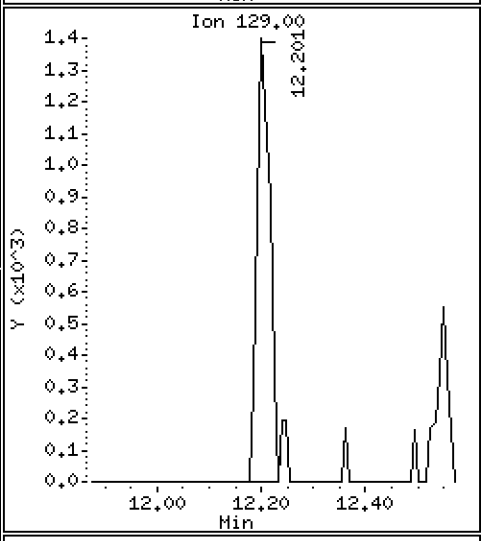
28 Naphthalene

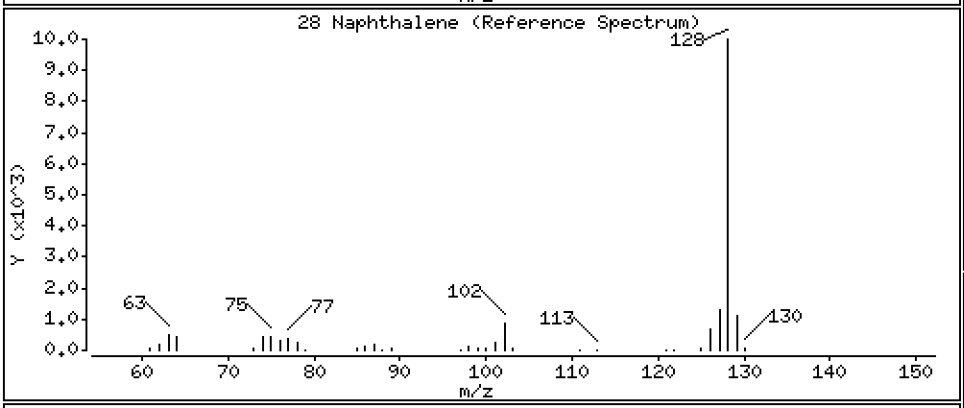
Concentration: 0.3054 ug/mL

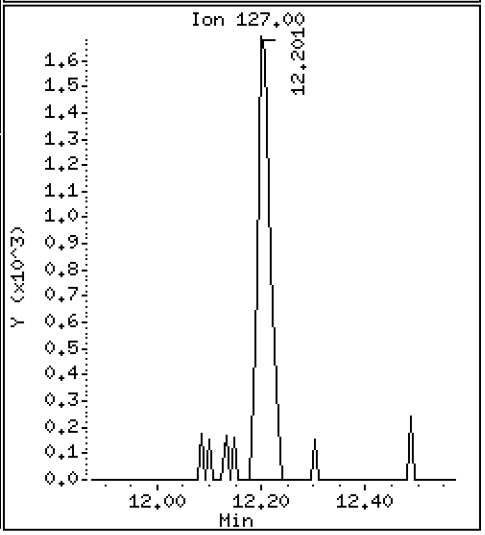


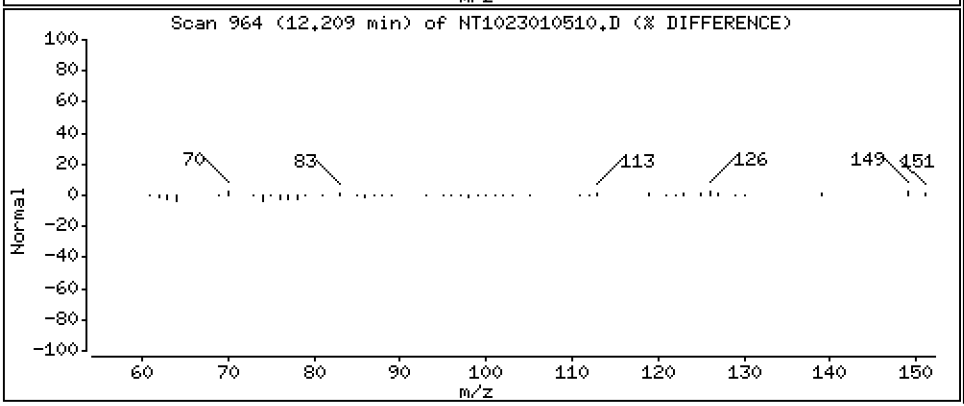












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

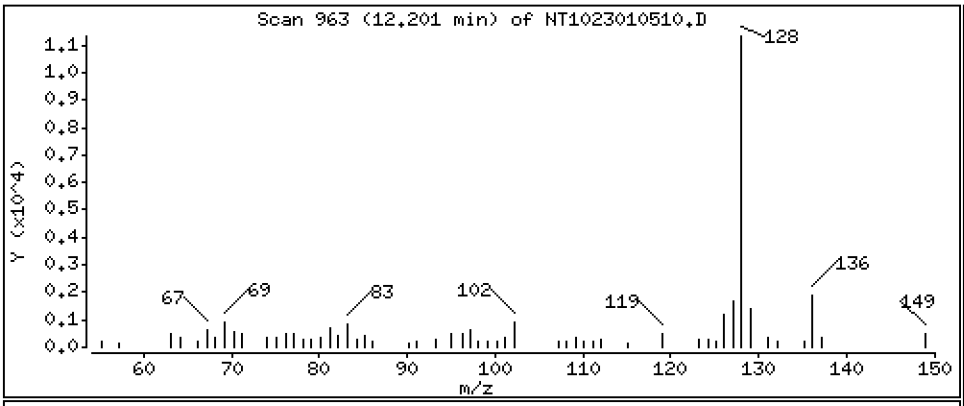
Operator: VTS

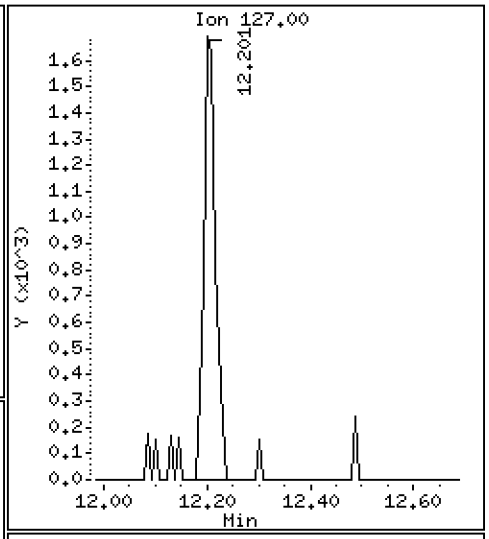
Column phase: ZB-5msi

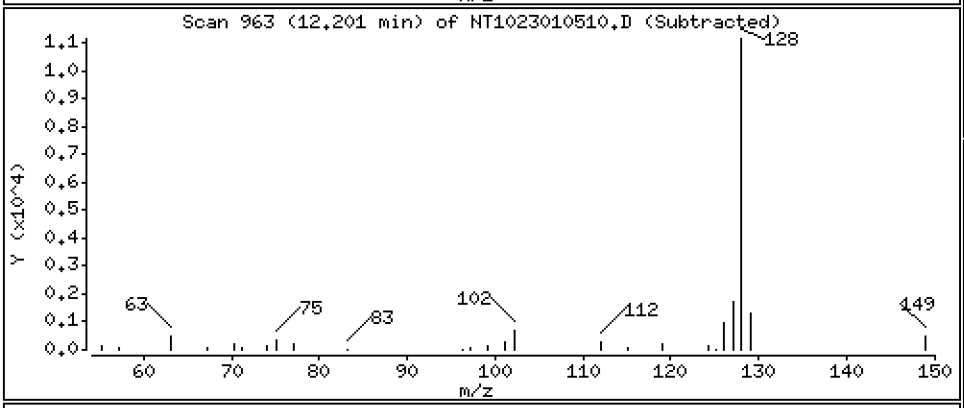
Column diameter: 0.25

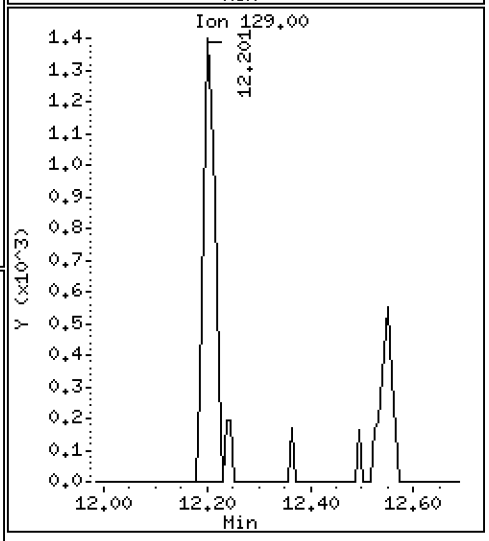
29 4-Chloroaniline

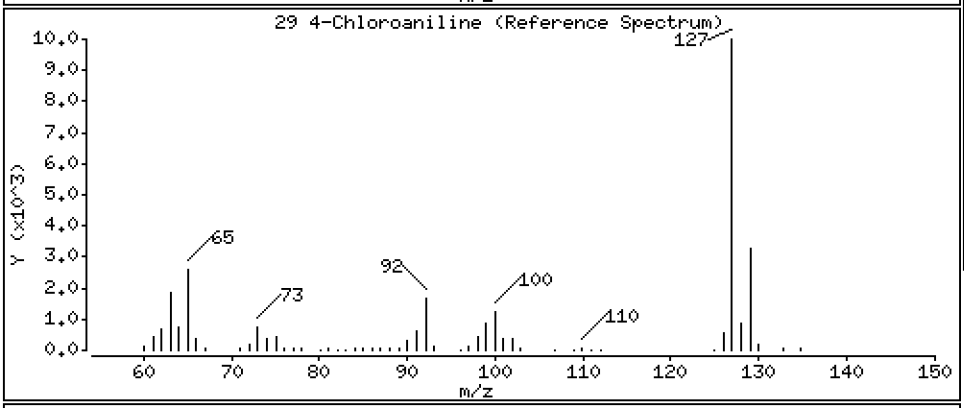
Concentration: 0.1064 ug/mL

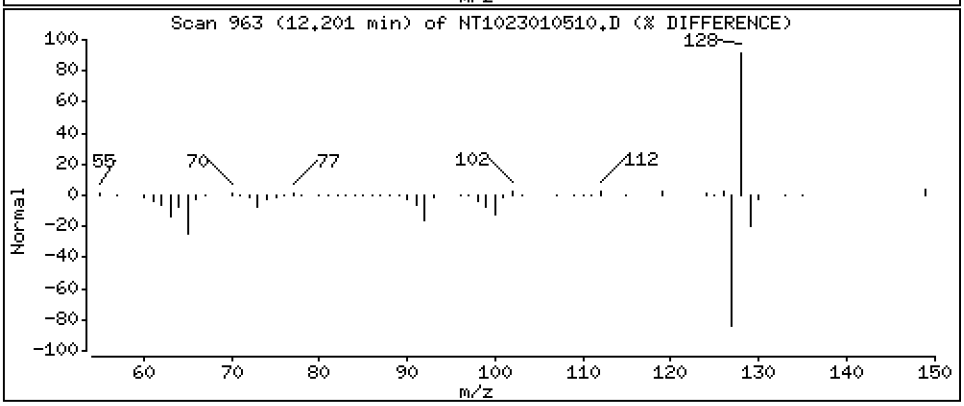












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

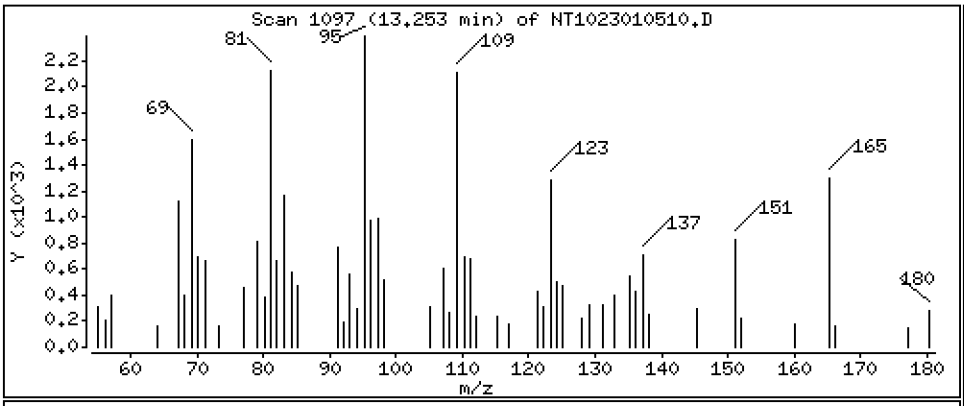
Operator: VTS

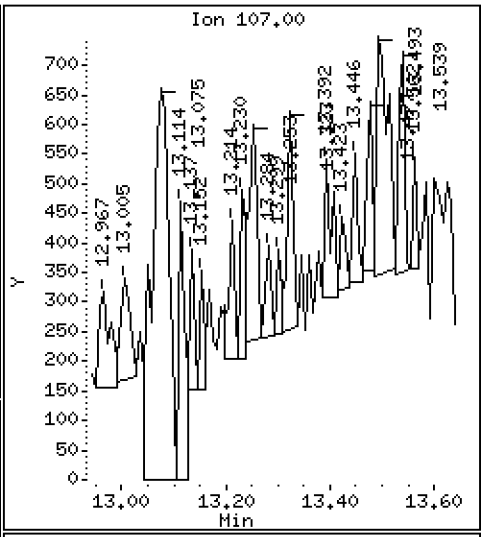
Column phase: ZB-5msi

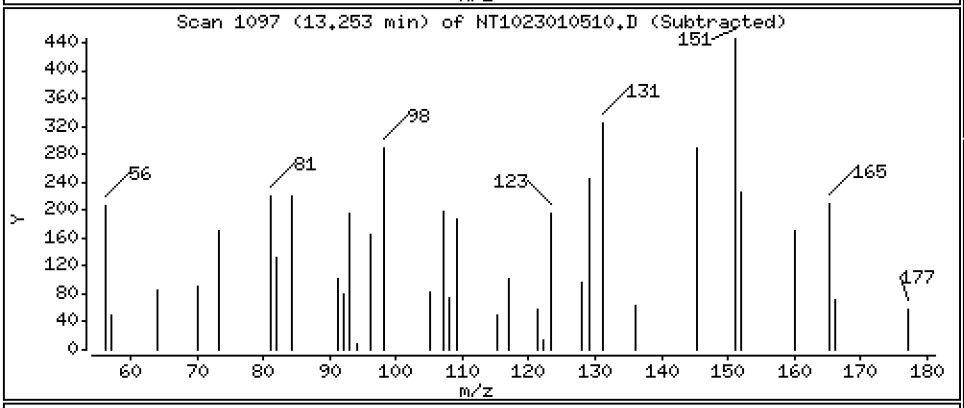
Column diameter: 0.25

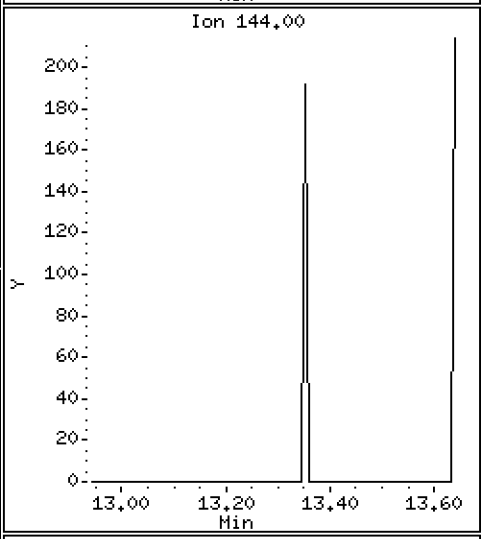
31 4-Chloro-3-methylphenol

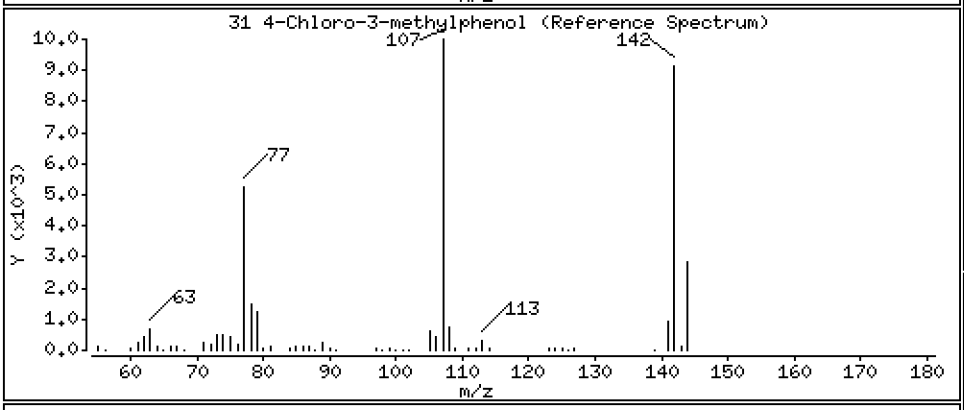
Concentration: 0.02489 ug/mL

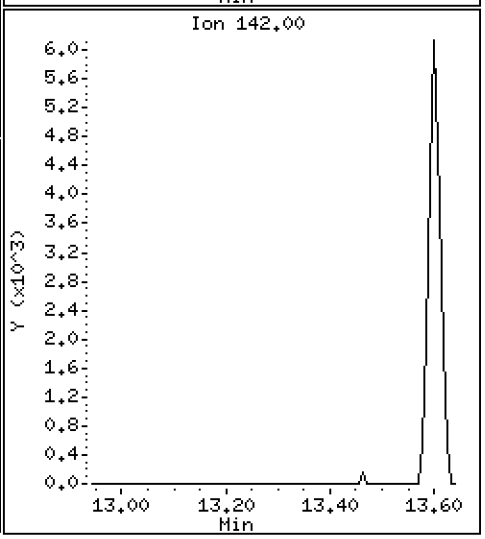


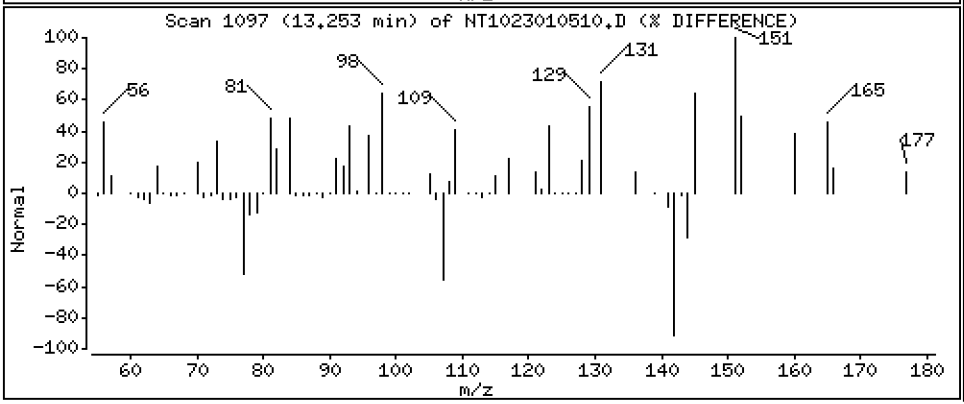












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

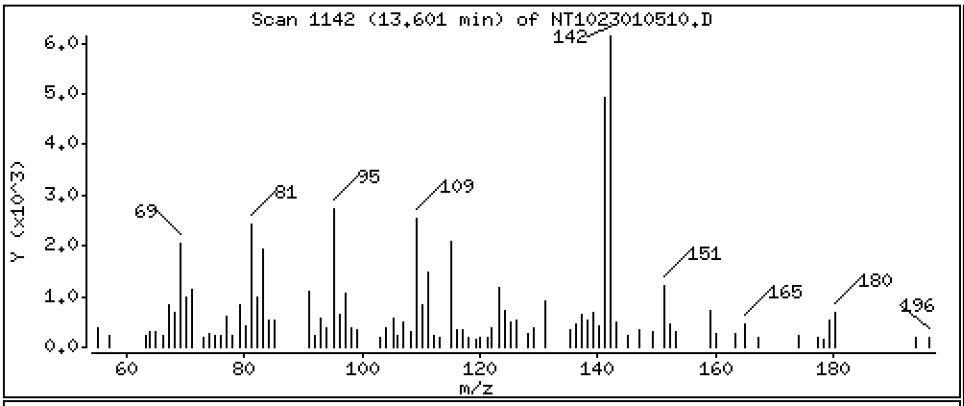
Operator: VTS

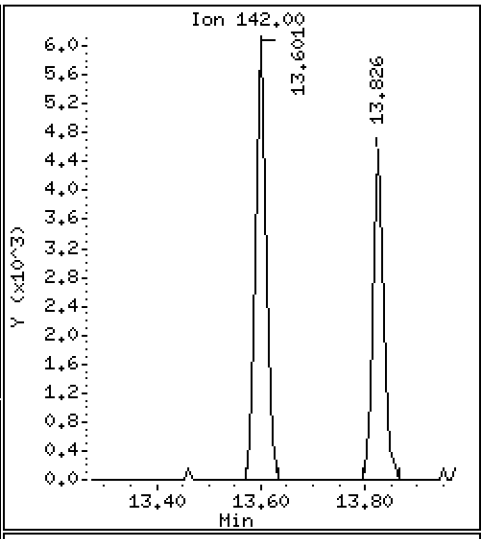
Column phase: ZB-5msi

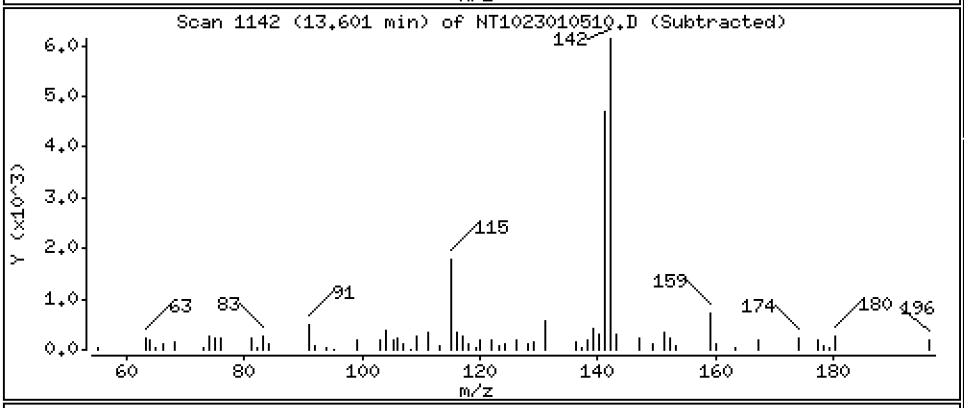
Column diameter: 0.25

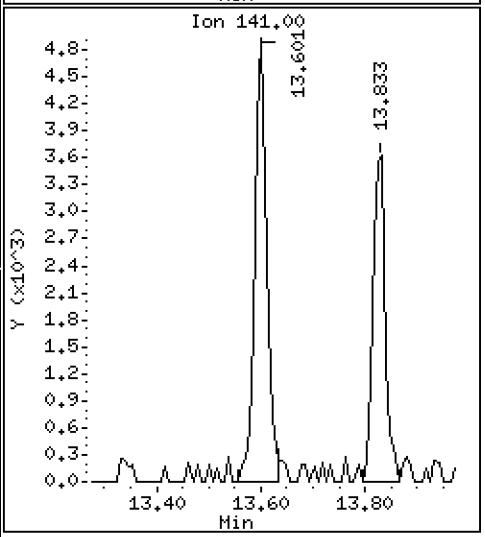
32 2-Methylnaphthalene

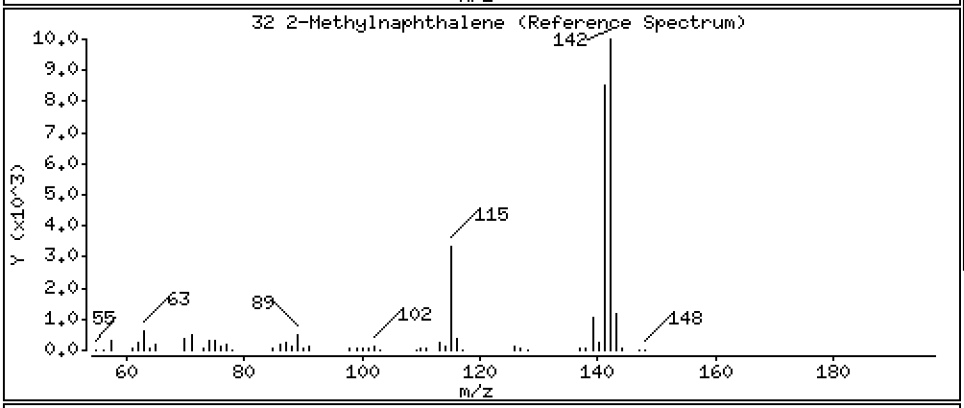
Concentration: 0.1690 ug/mL

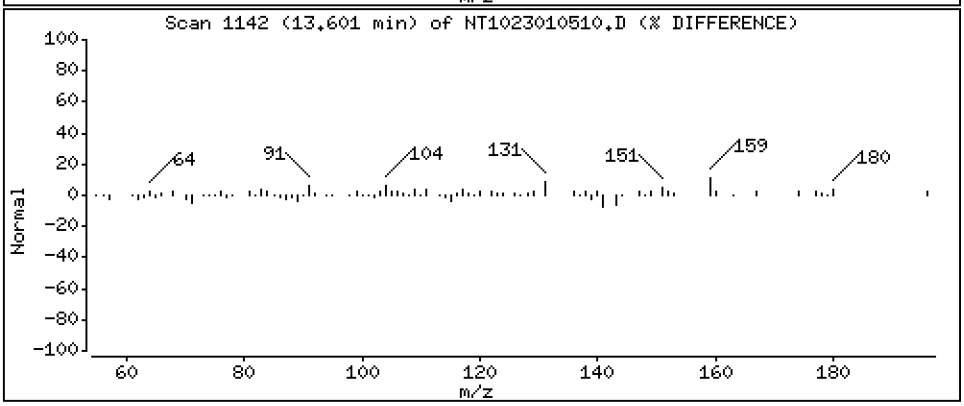












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

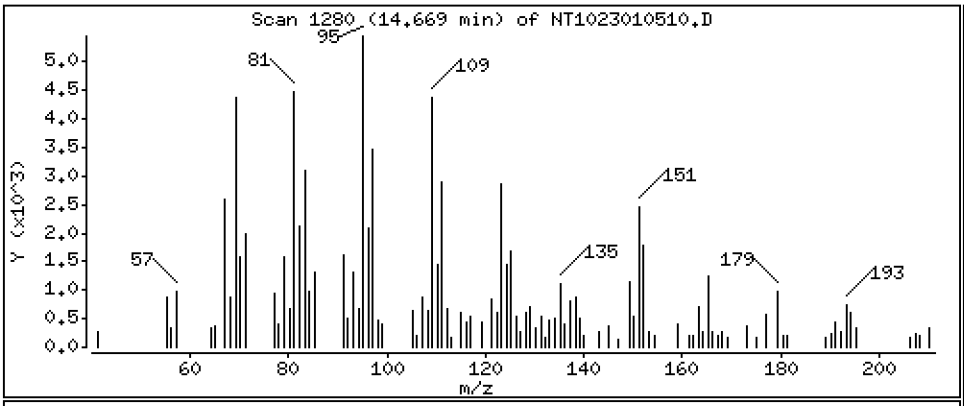
Operator: VTS

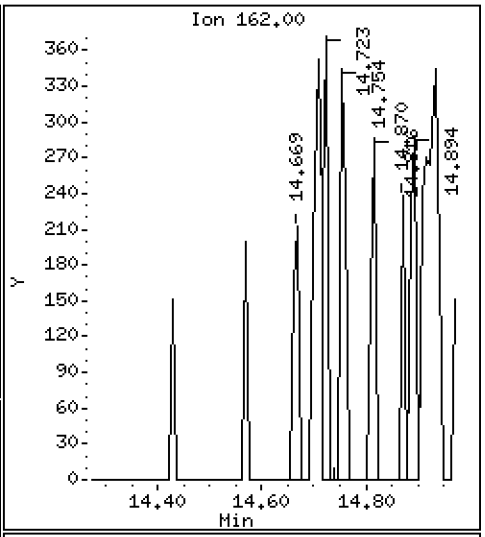
Column phase: ZB-5msi

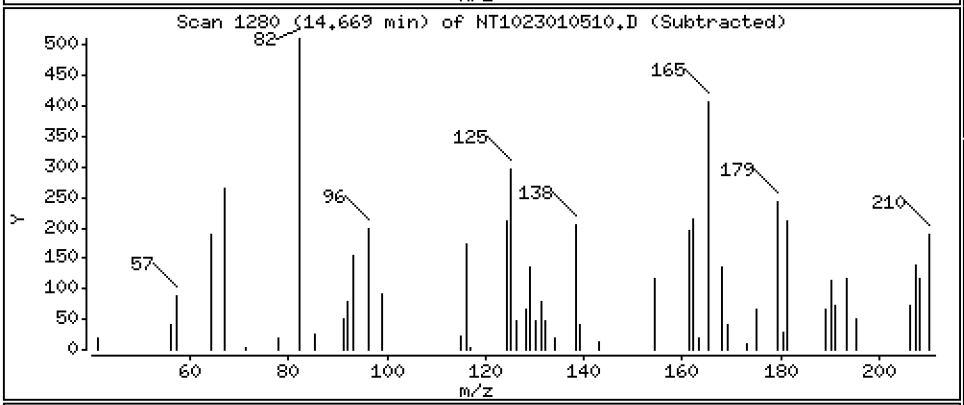
Column diameter: 0.25

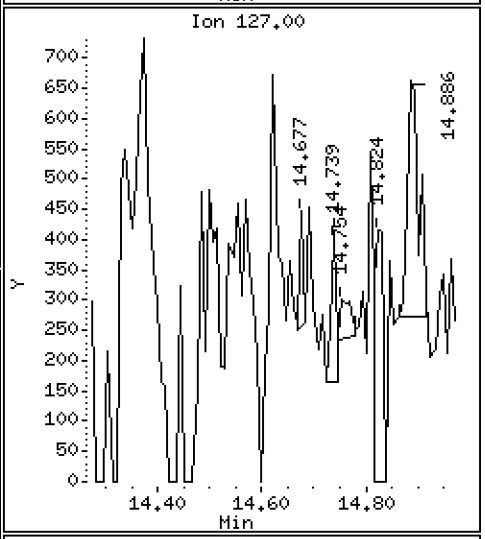
37 2-Chloronaphthalene

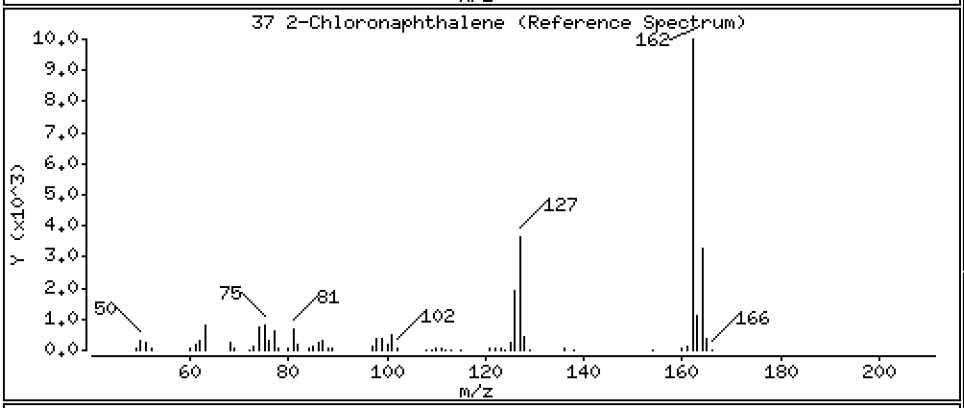
Concentration: 0.004434 ug/mL

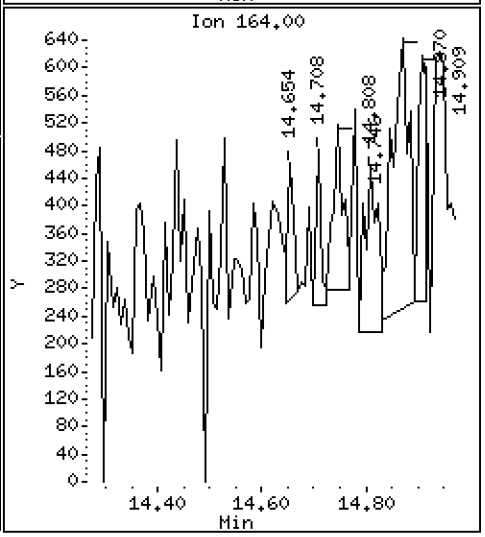


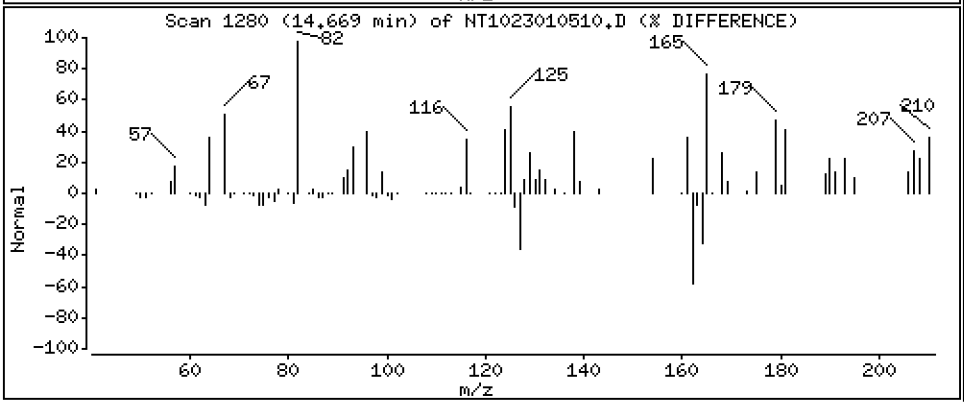












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

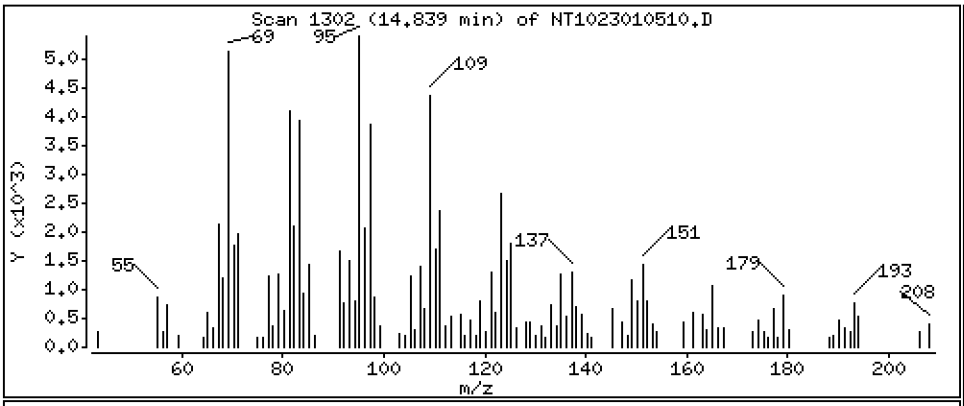
Operator: VTS

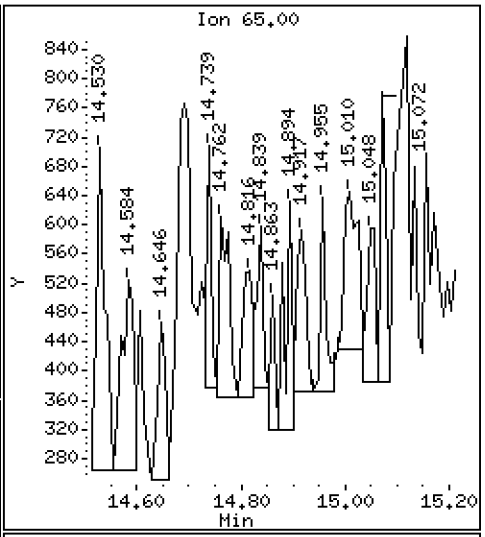
Column phase: ZB-5msi

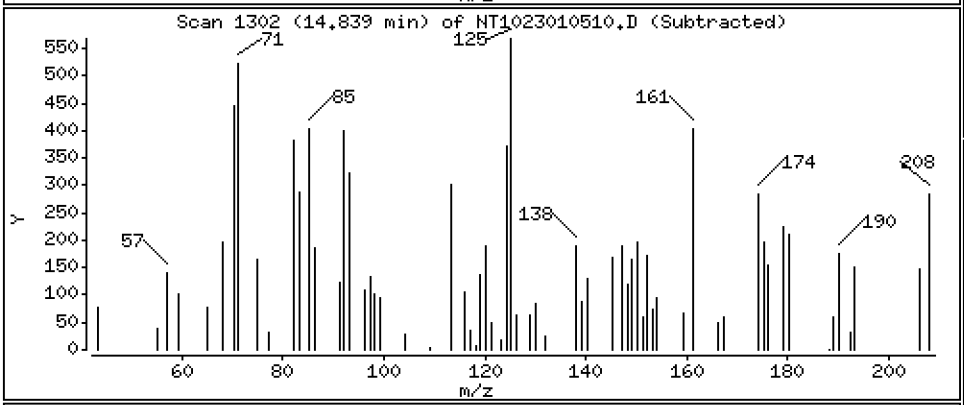
Column diameter: 0.25

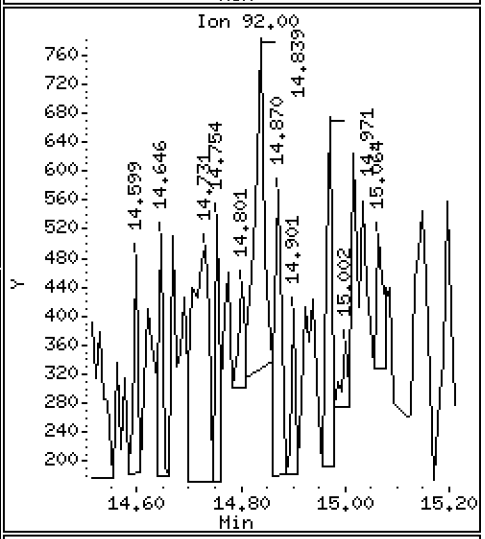
38 2-Nitroaniline

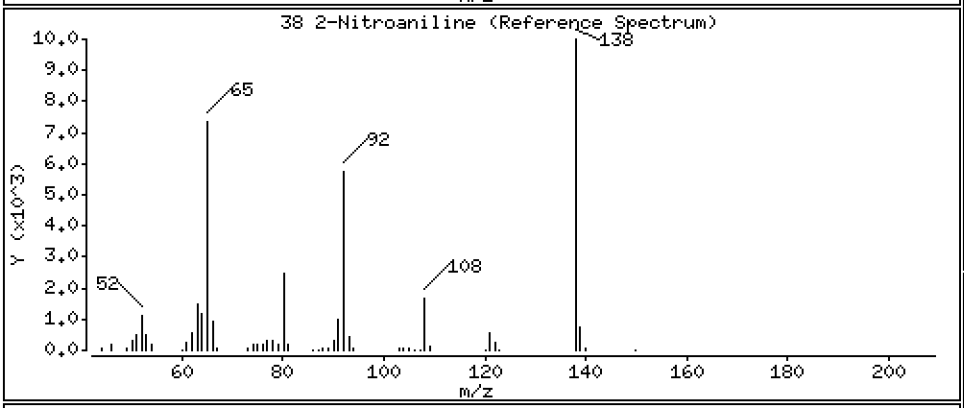
Concentration: 0.04173 ug/mL

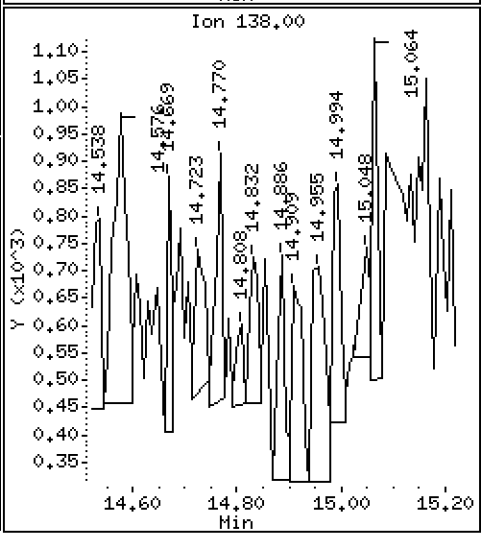


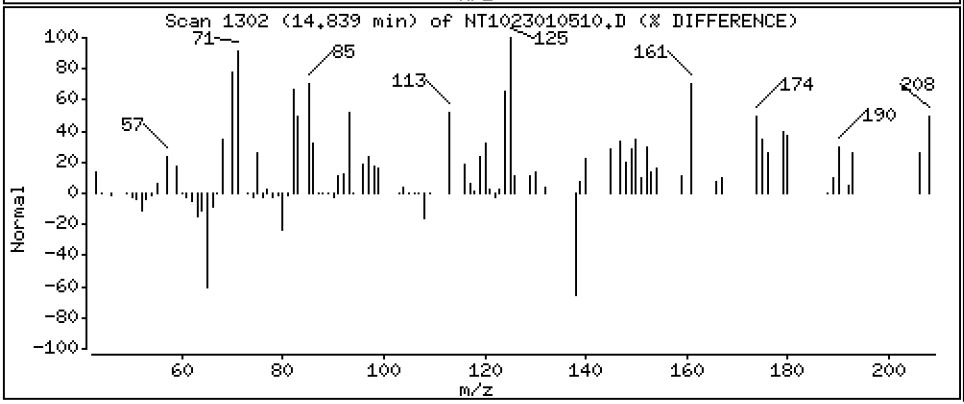












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

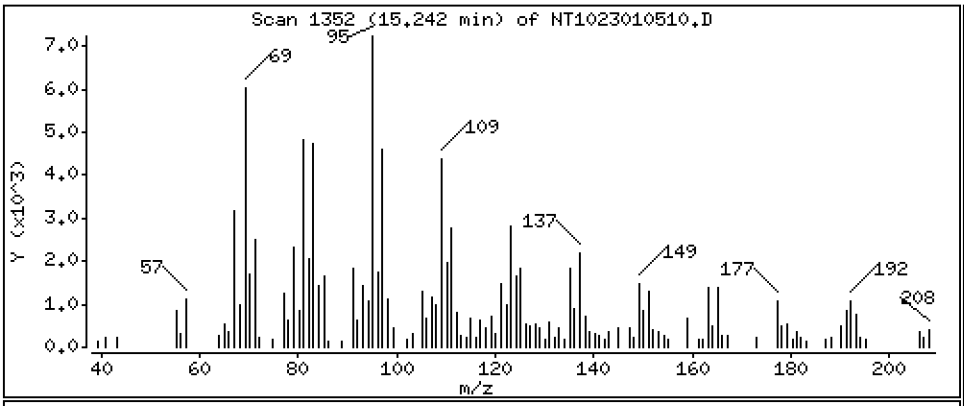
Operator: VTS

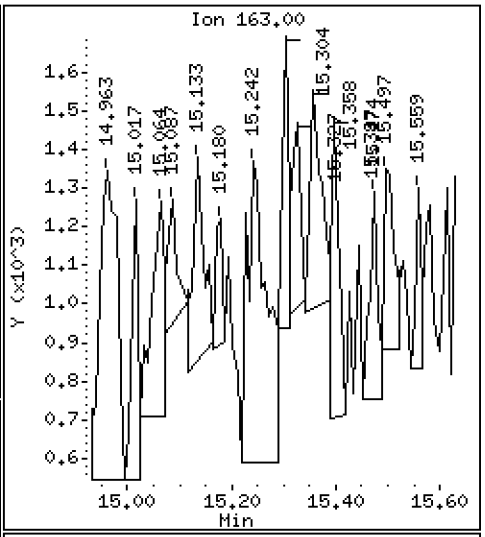
Column phase: ZB-5msi

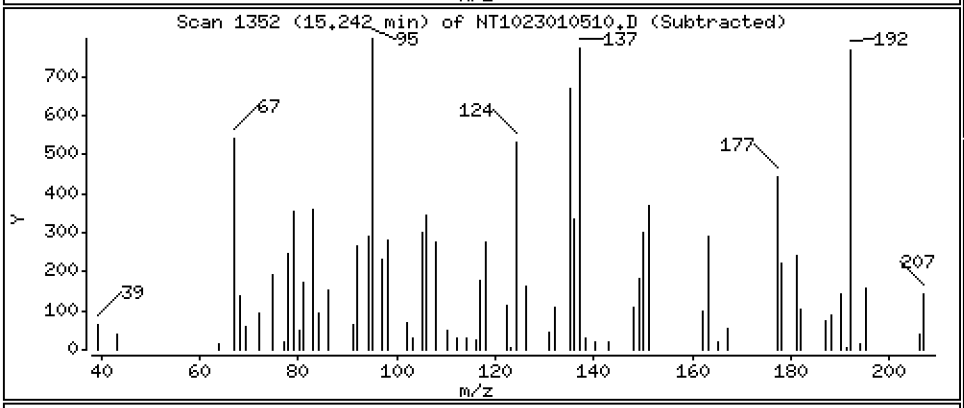
Column diameter: 0.25

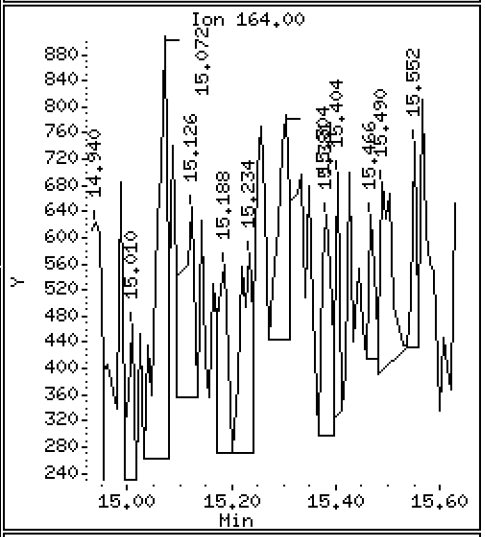
39 Dimethylphthalate

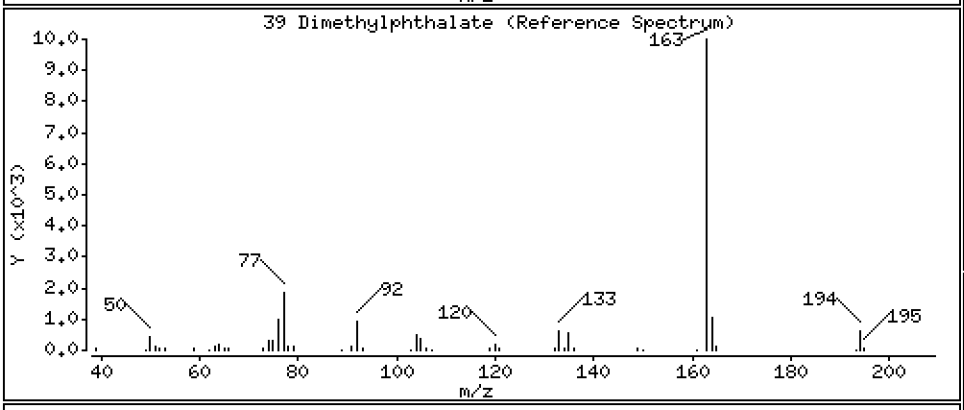
Concentration: 0.05926 ug/mL

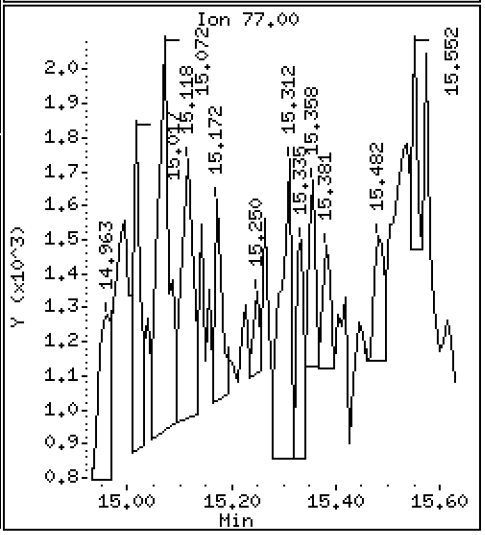


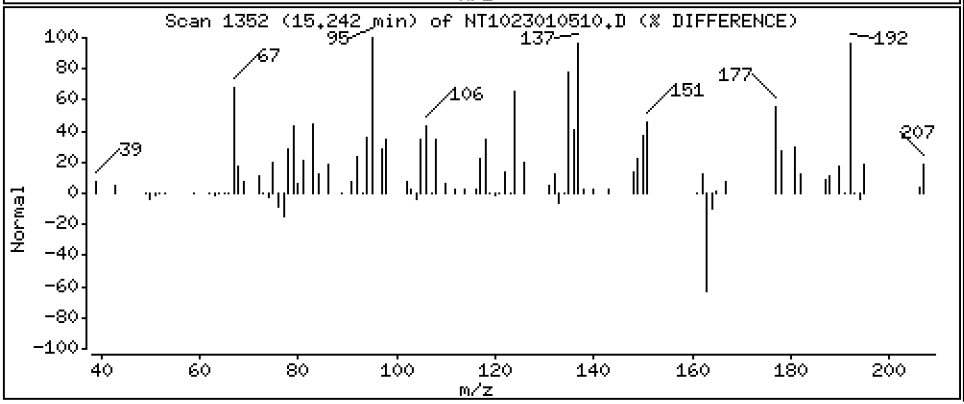












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

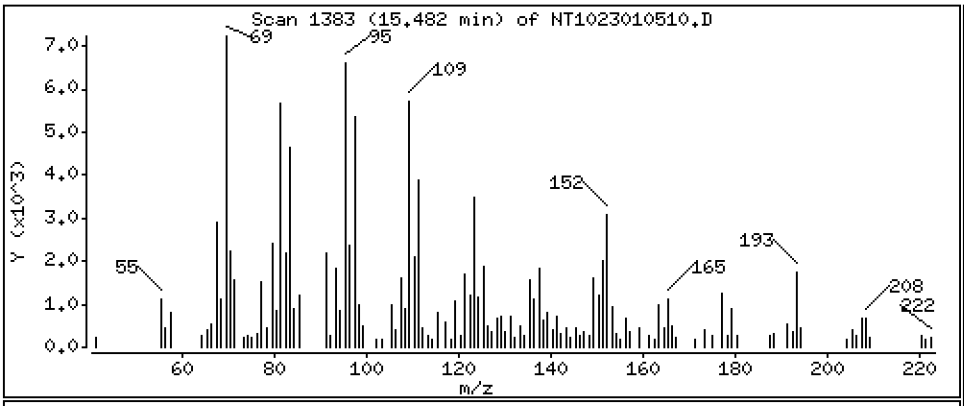
Operator: VTS

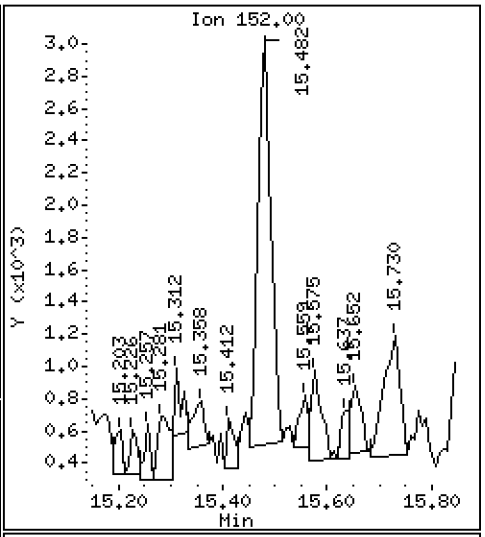
Column phase: ZB-5msi

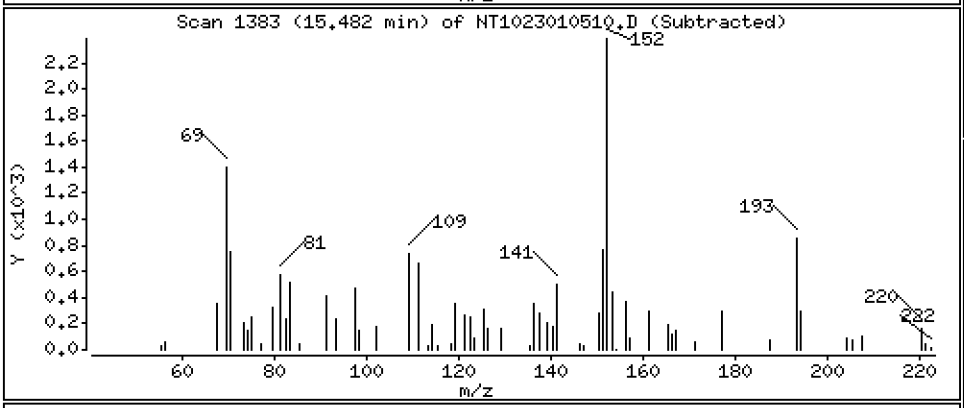
Column diameter: 0.25

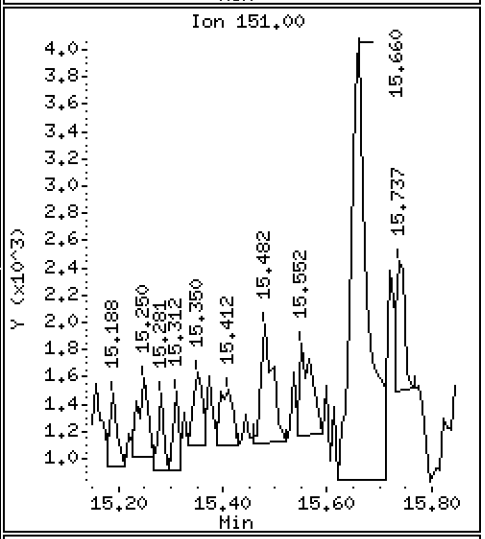
40 Acenaphthylene

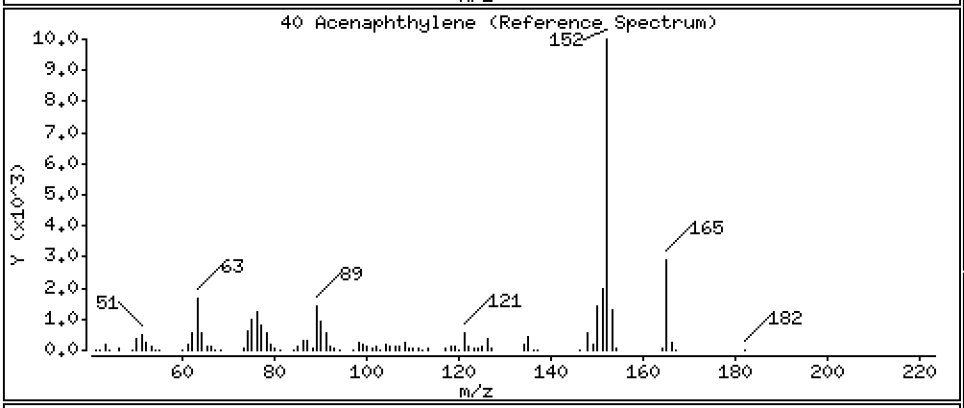
Concentration: 0.07565 ug/mL

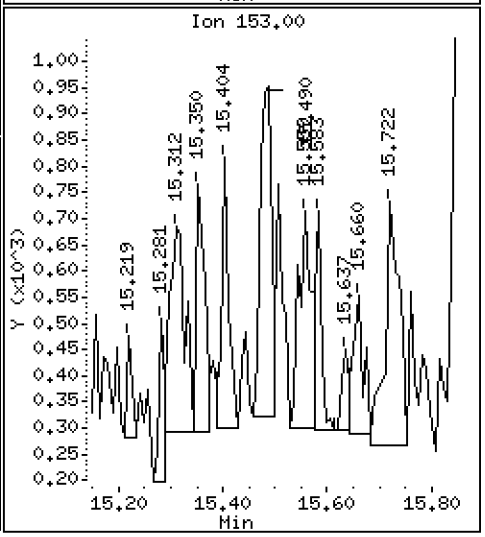


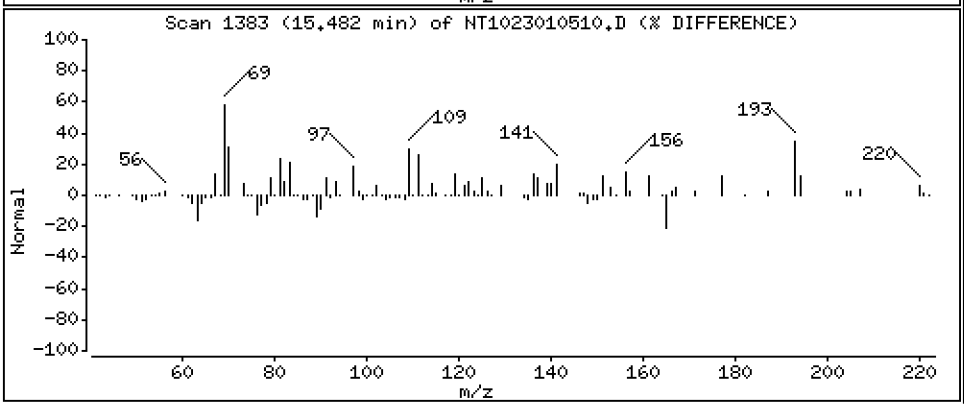












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

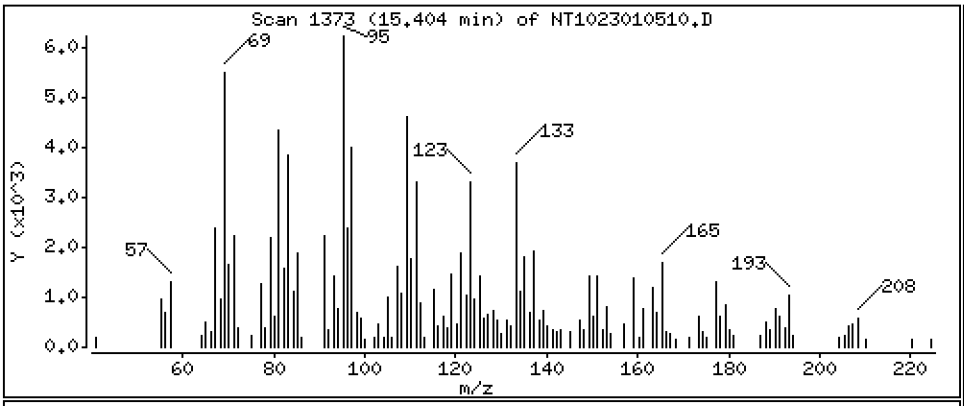
Operator: VTS

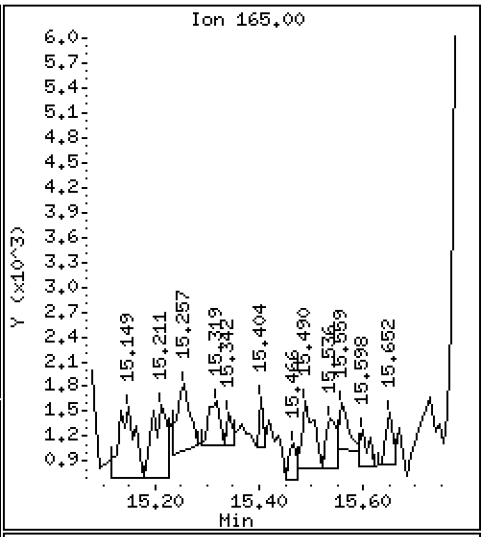
Column phase: ZB-5msi

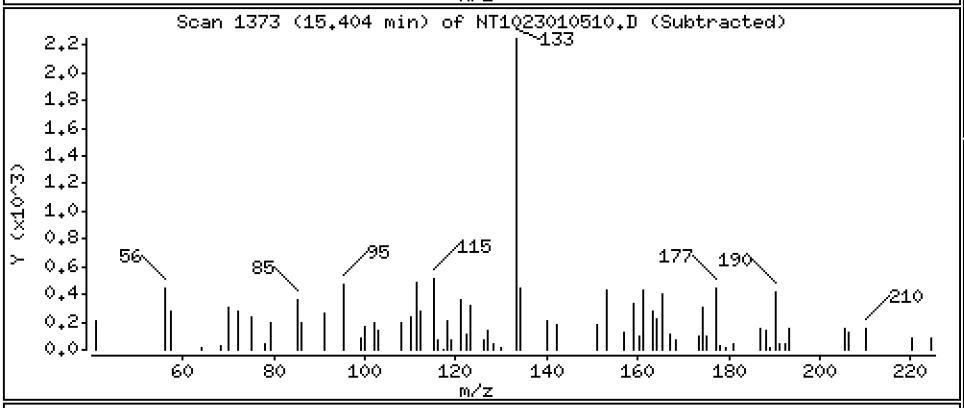
Column diameter: 0.25

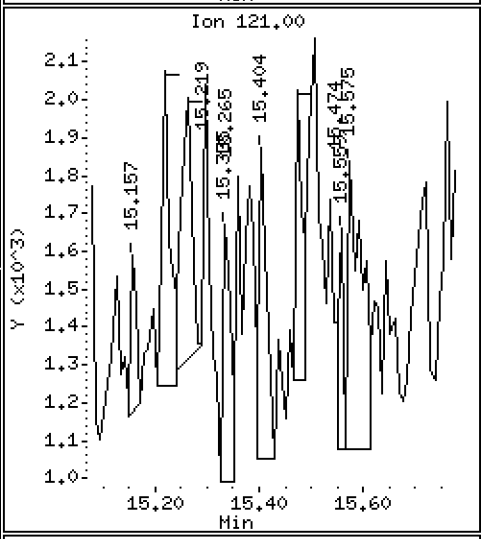
41 2,6-Dinitrotoluene

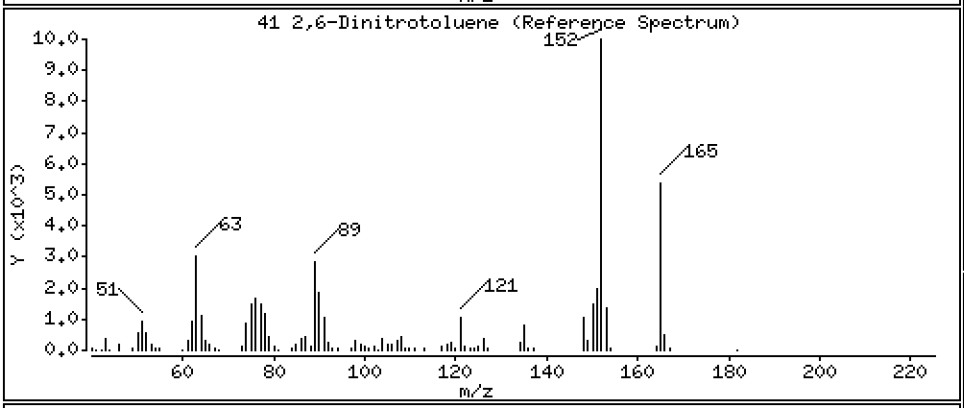
Concentration: 0.03991 ug/mL

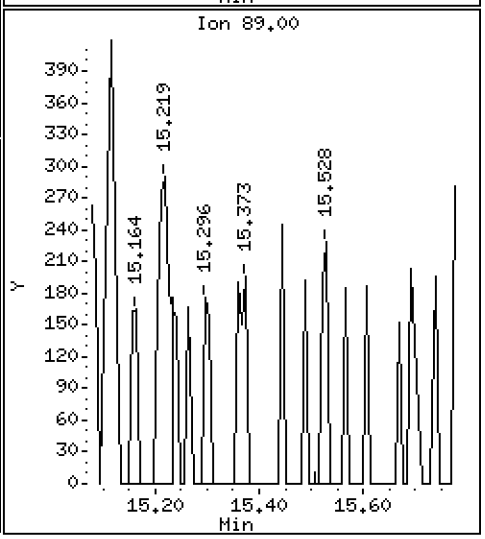


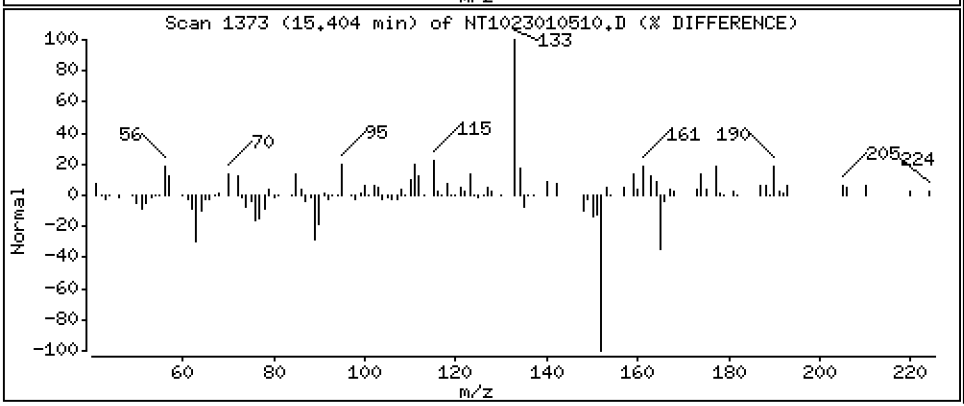












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

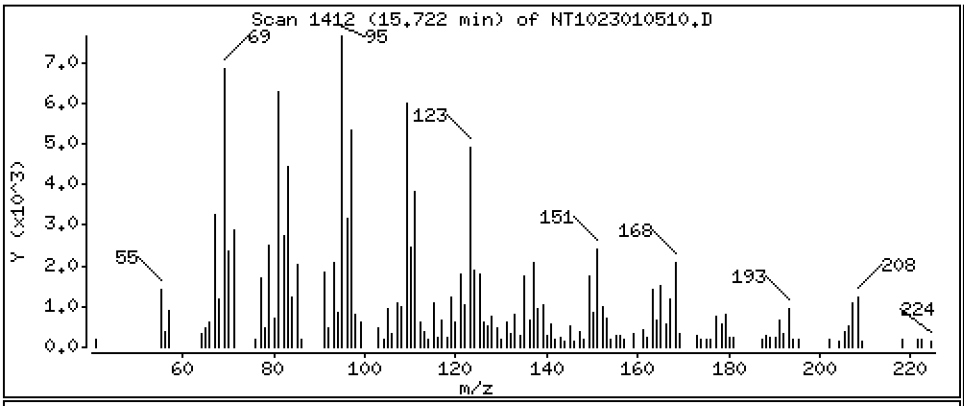
Operator: VTS

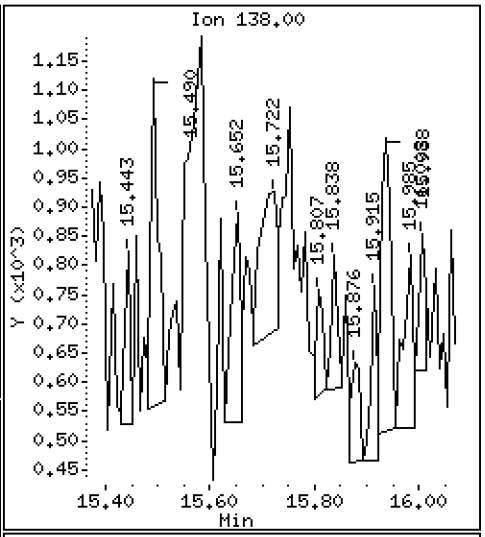
Column phase: ZB-5msi

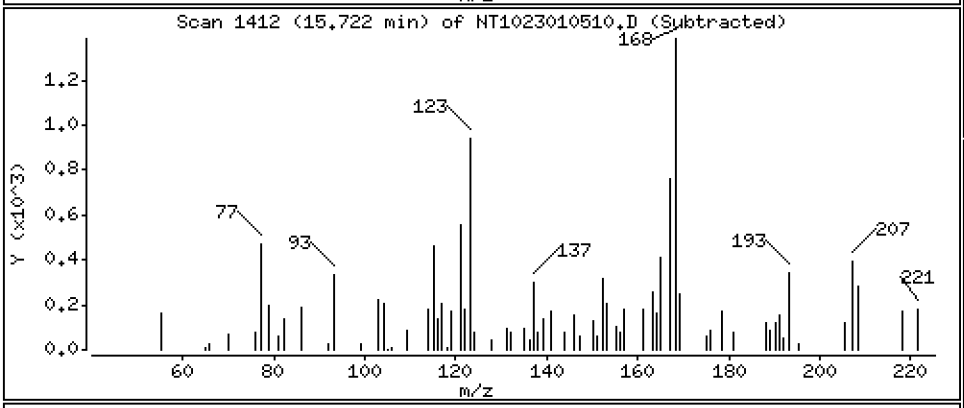
Column diameter: 0.25

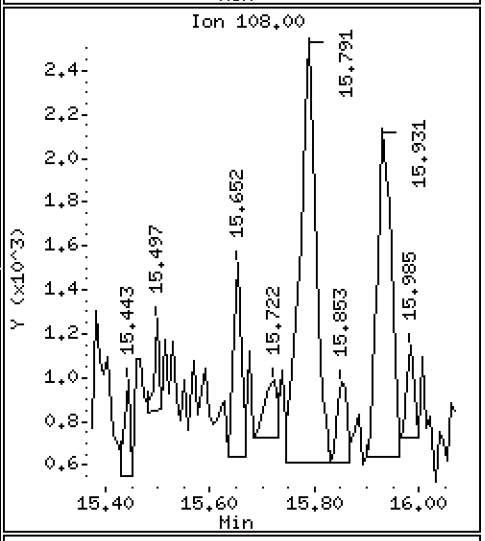
43 3-Nitroaniline

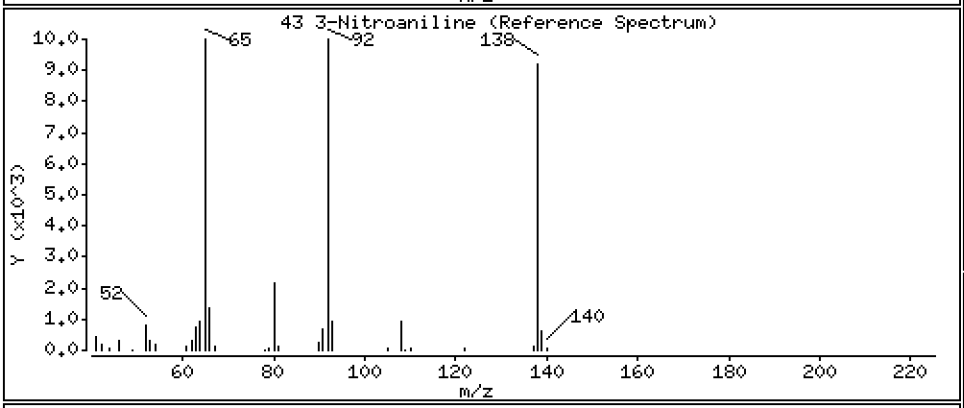
Concentration: 0.1020 ug/mL

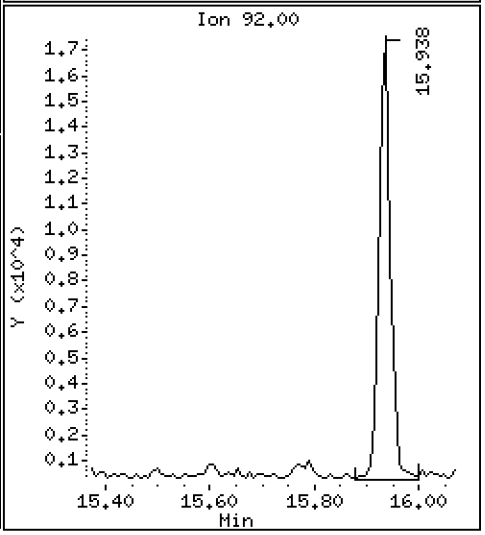


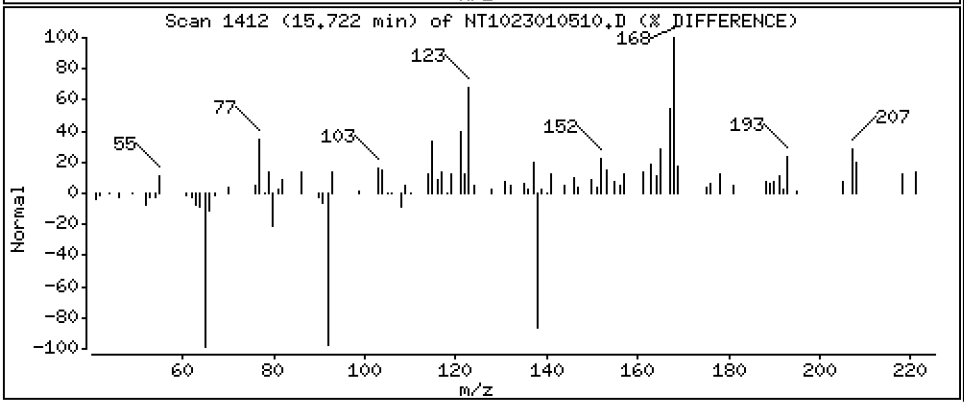












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

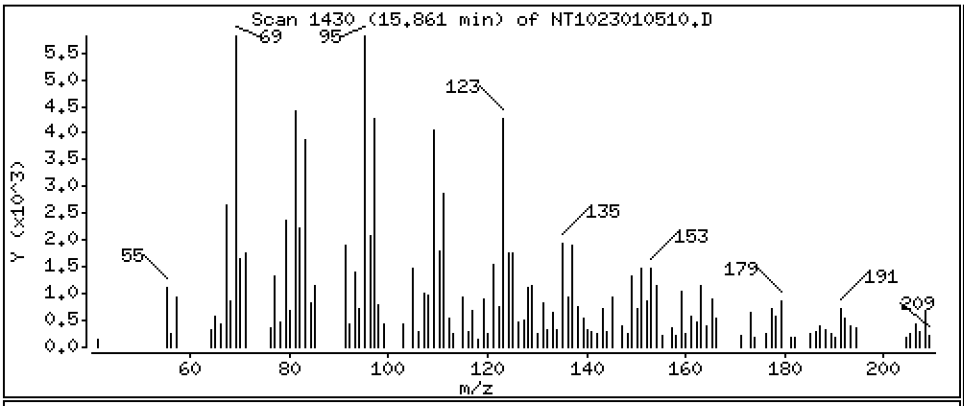
Operator: VTS

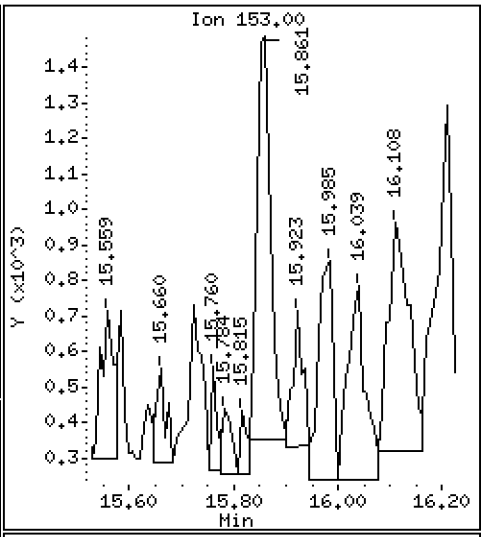
Column phase: ZB-5msi

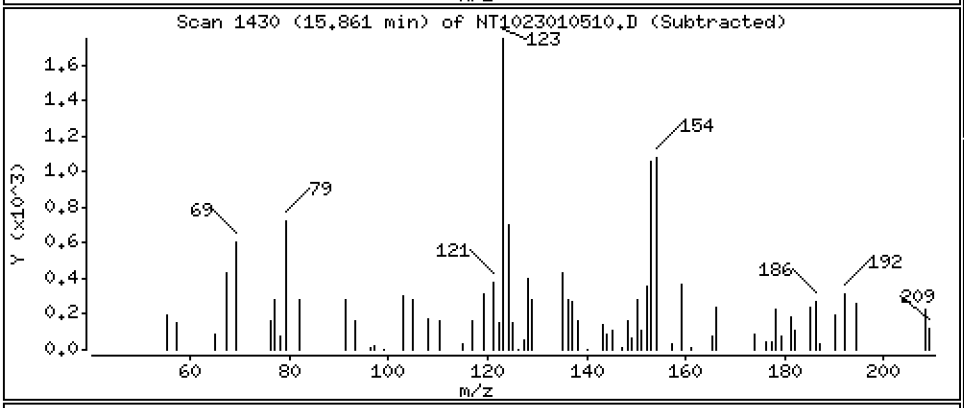
Column diameter: 0.25

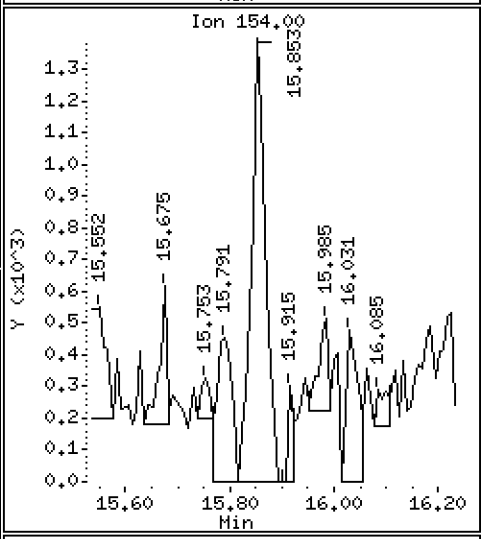
44 Acenaphthene

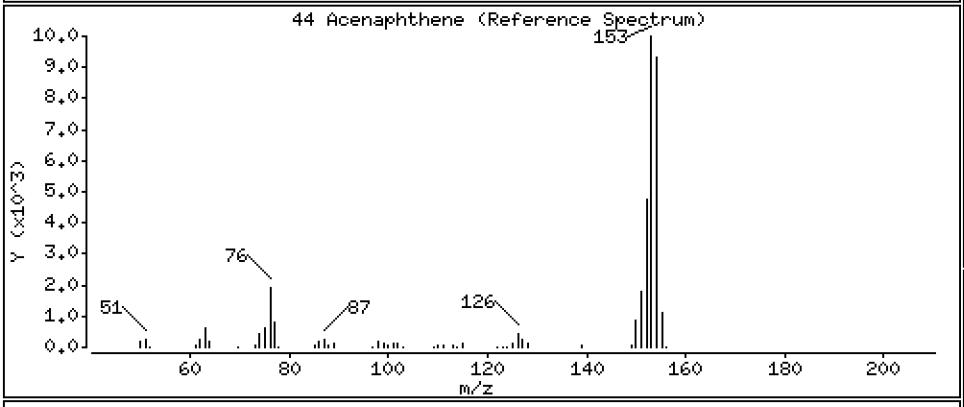
Concentration: 0.06591 ug/mL

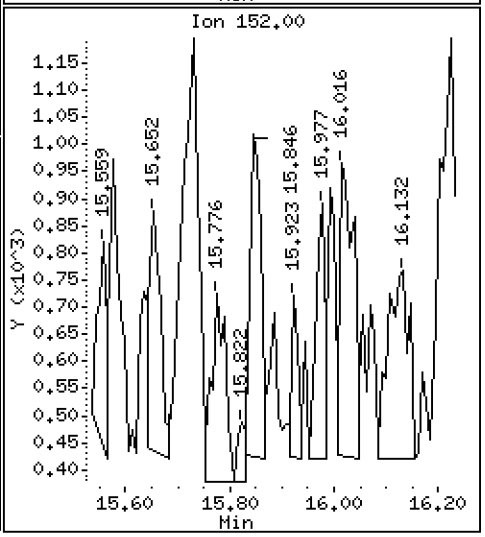


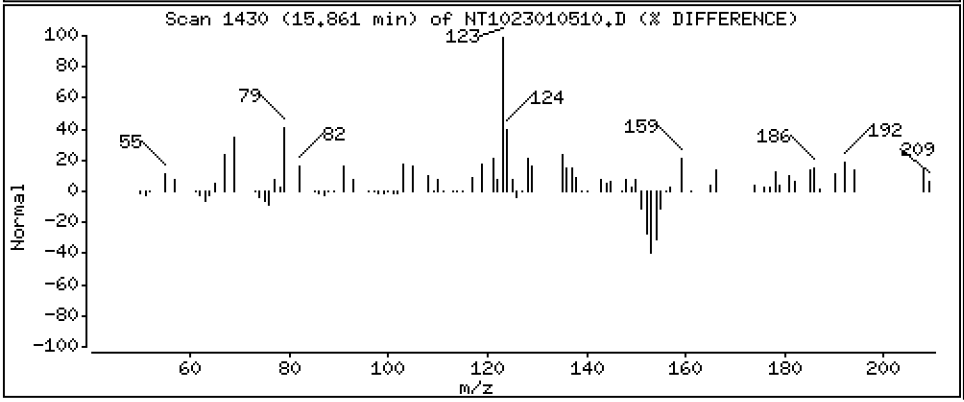












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

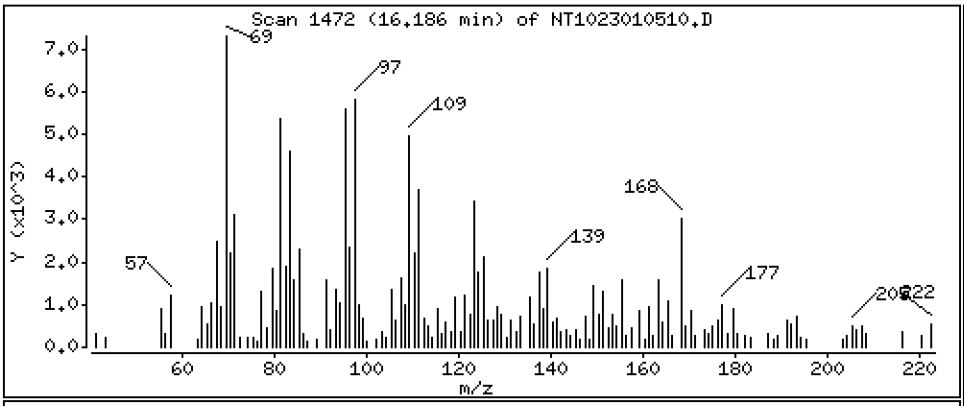
Operator: VTS

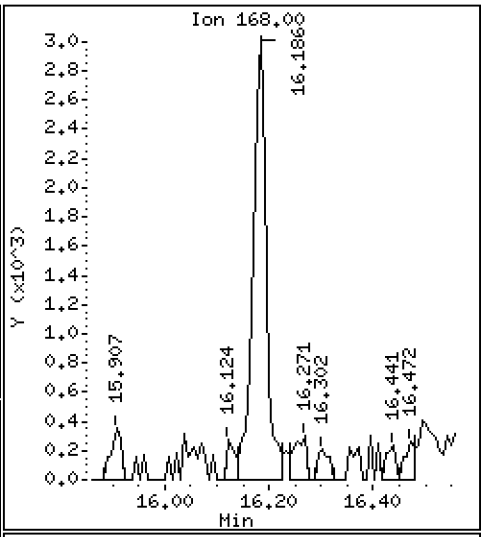
Column phase: ZB-5msi

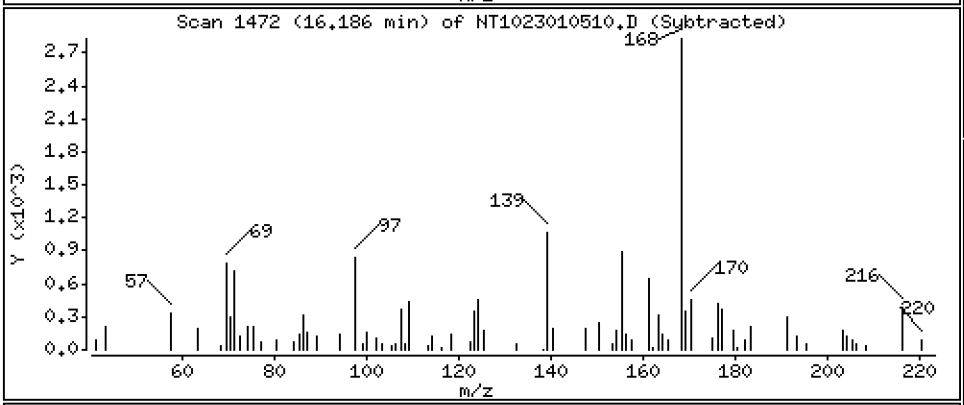
Column diameter: 0.25

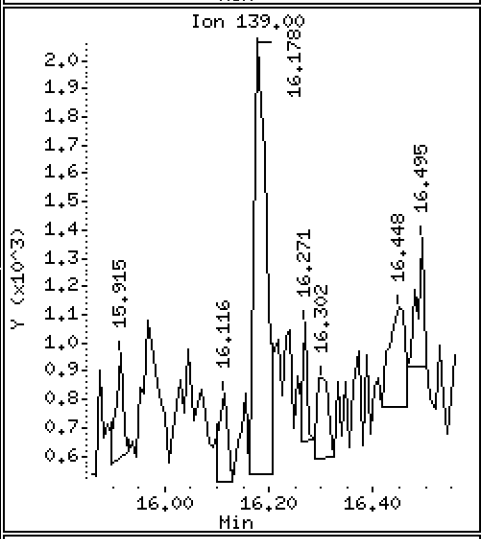
46 Dibenzofuran

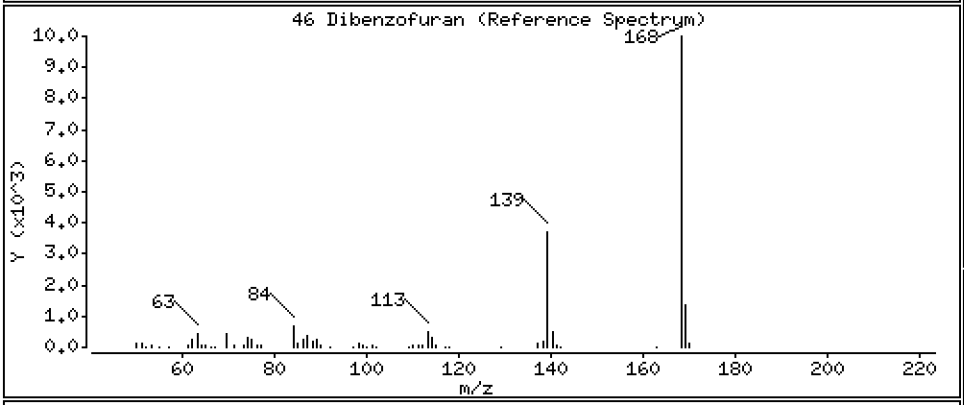
Concentration: 0.1183 ug/mL

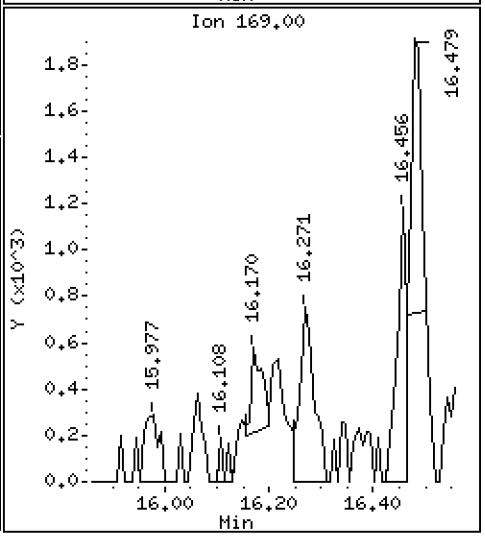


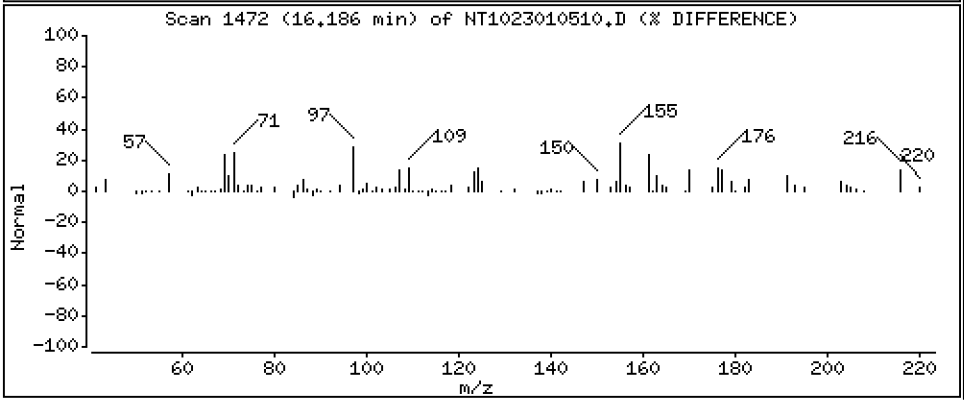












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

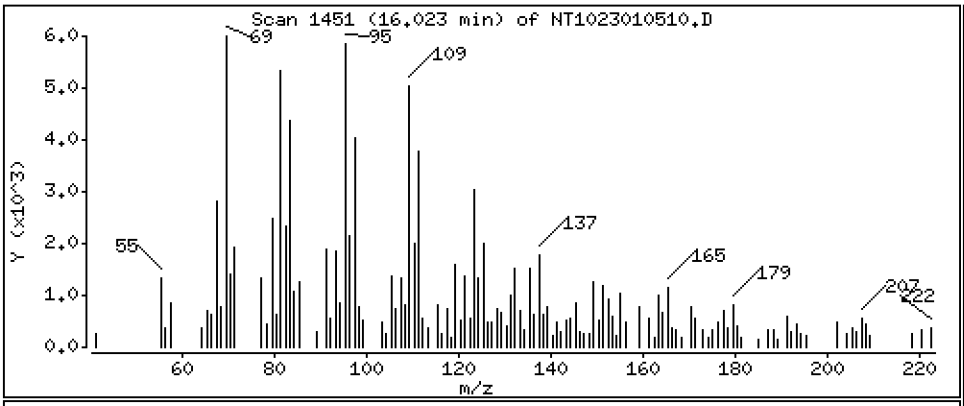
Operator: VTS

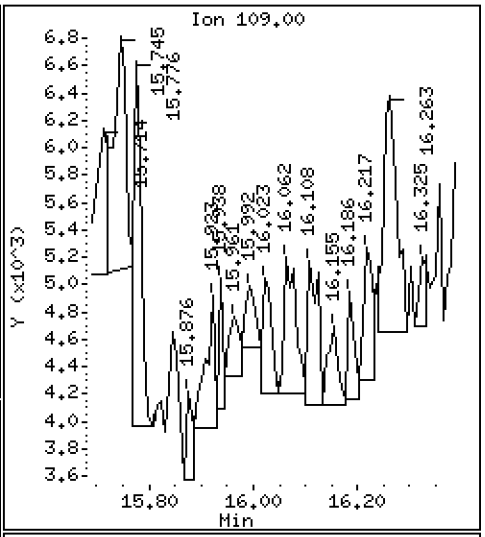
Column phase: ZB-5msi

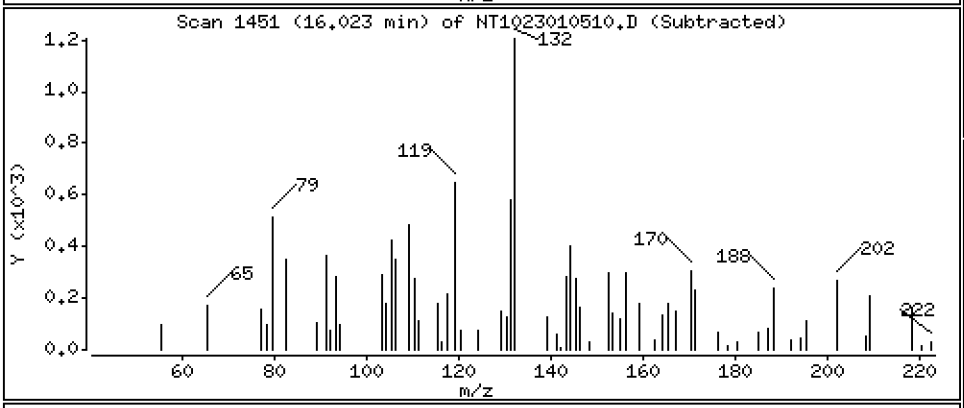
Column diameter: 0.25

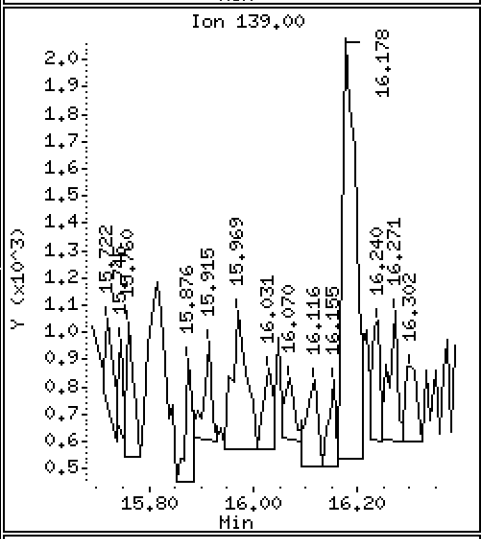
47 4-Nitrophenol

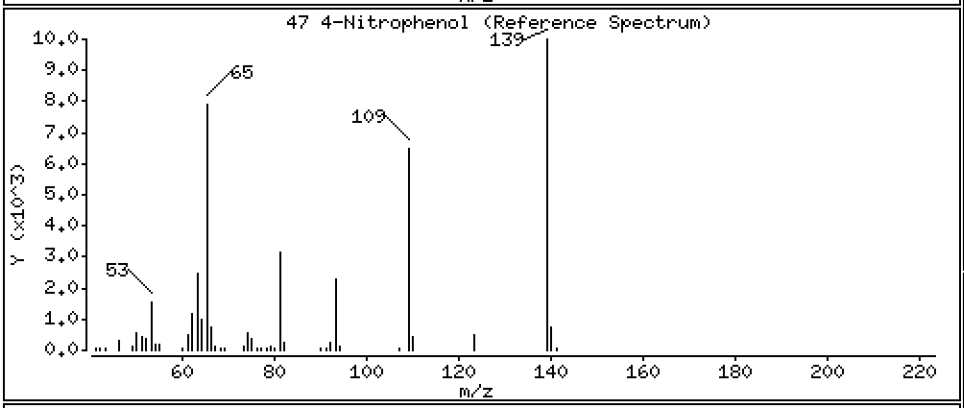
Concentration: 0.2397 ug/mL

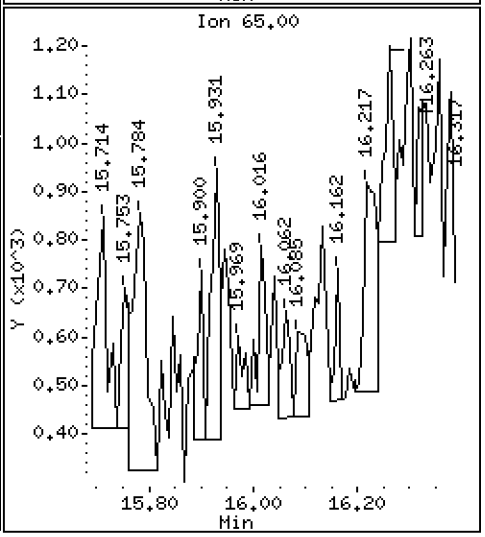


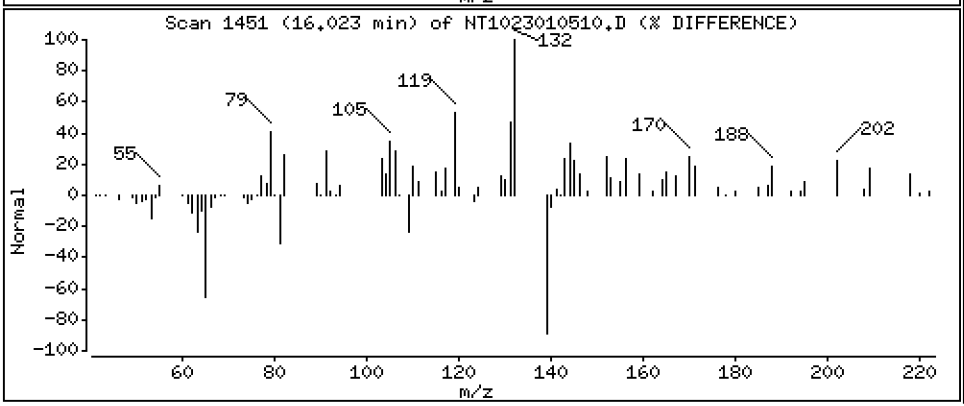












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

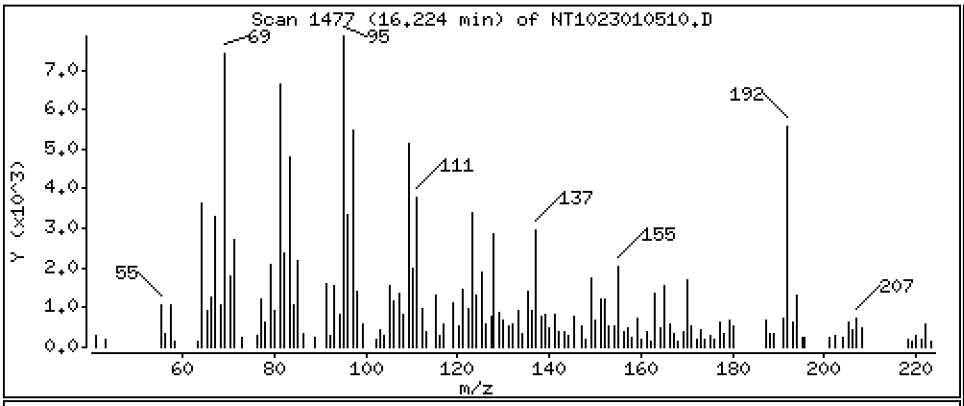
Operator: VTS

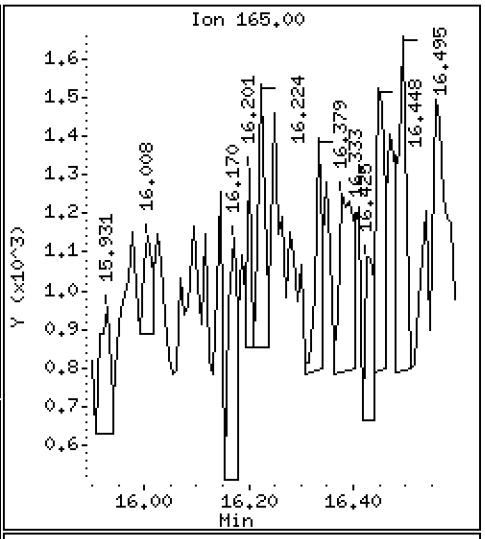
Column phase: ZB-5msi

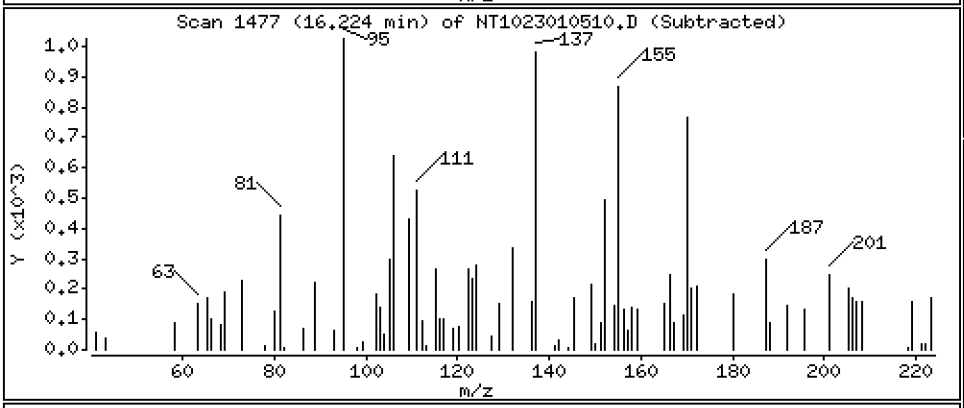
Column diameter: 0.25

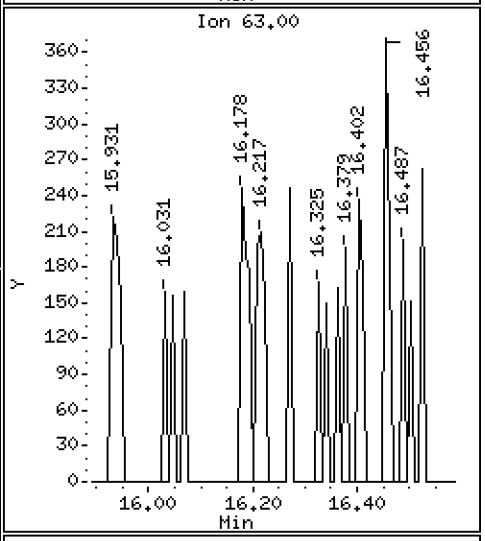
48 2,4-Dinitrotoluene

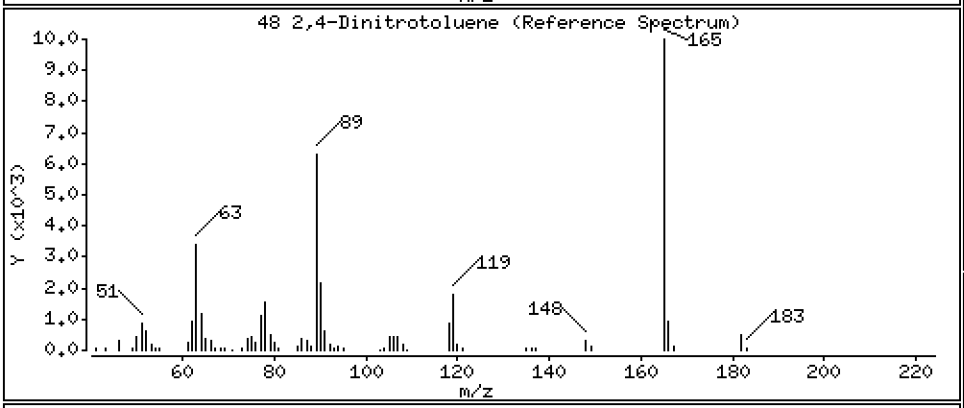
Concentration: 0.06104 ug/mL

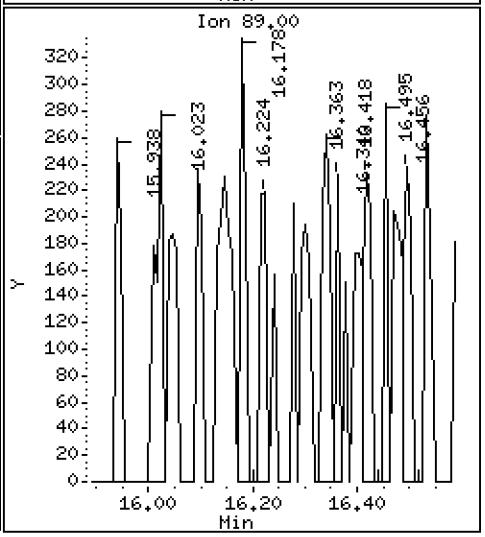


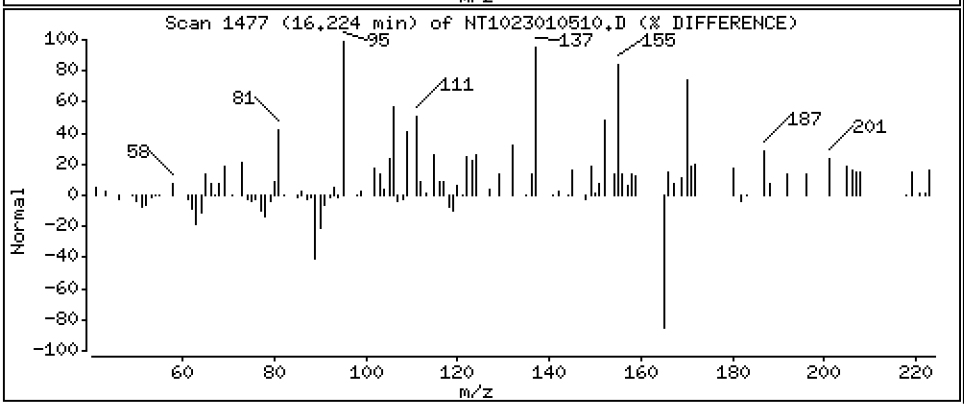












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

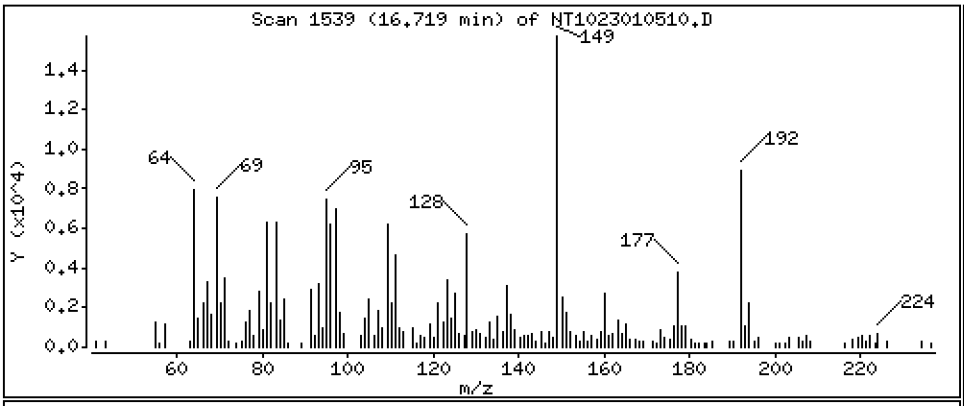
Operator: VTS

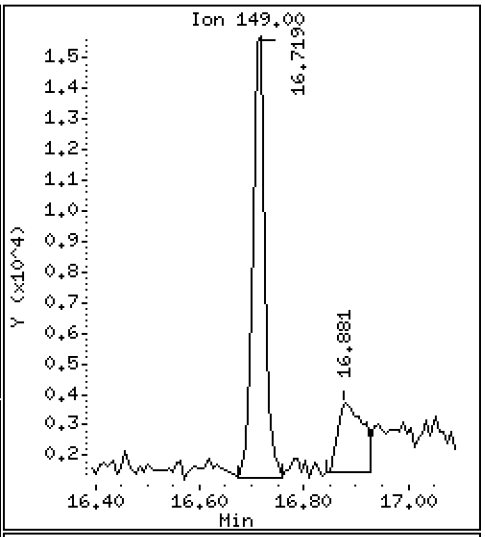
Column phase: ZB-5msi

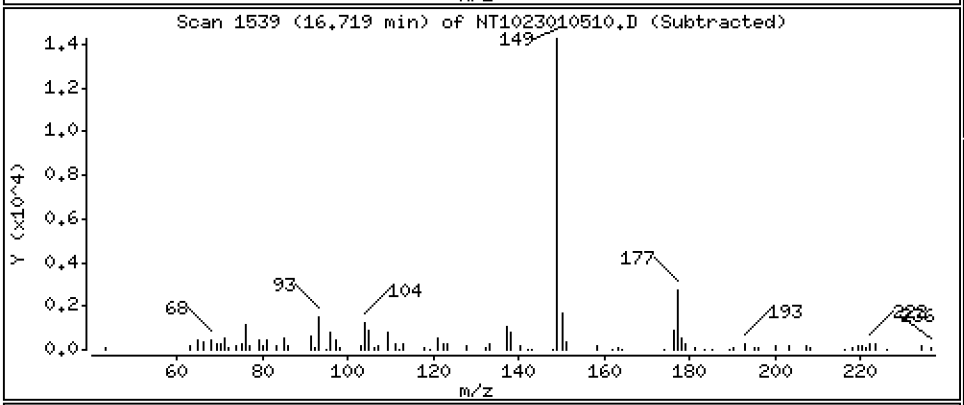
Column diameter: 0.25

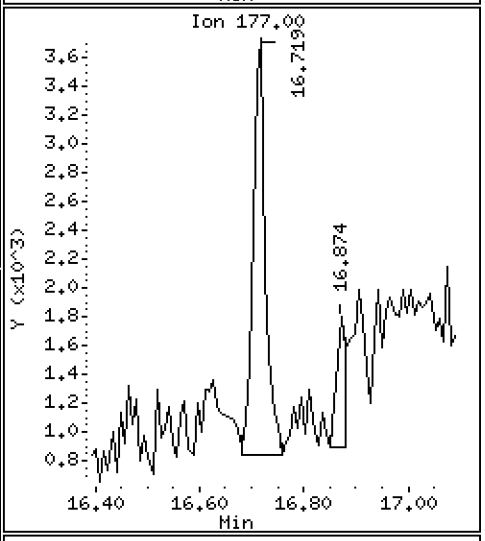
50 Diethylphthalate

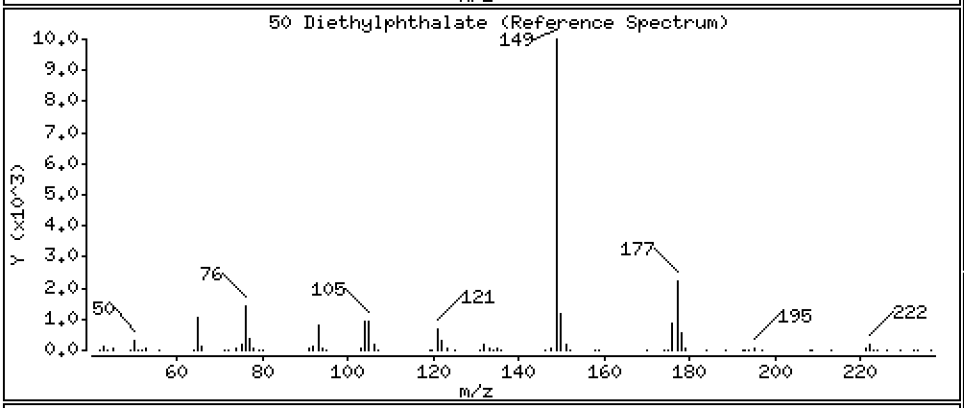
Concentration: 0.6393 ug/mL

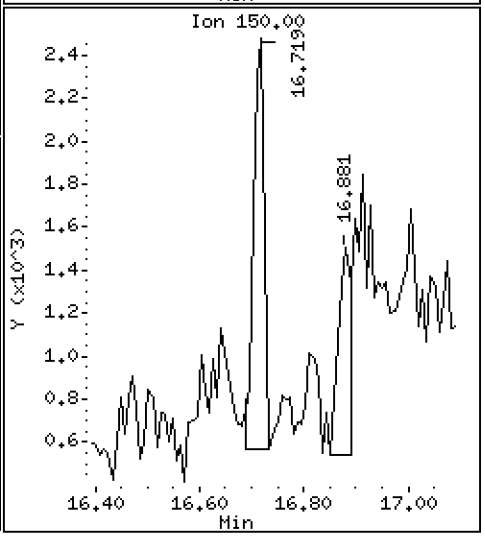


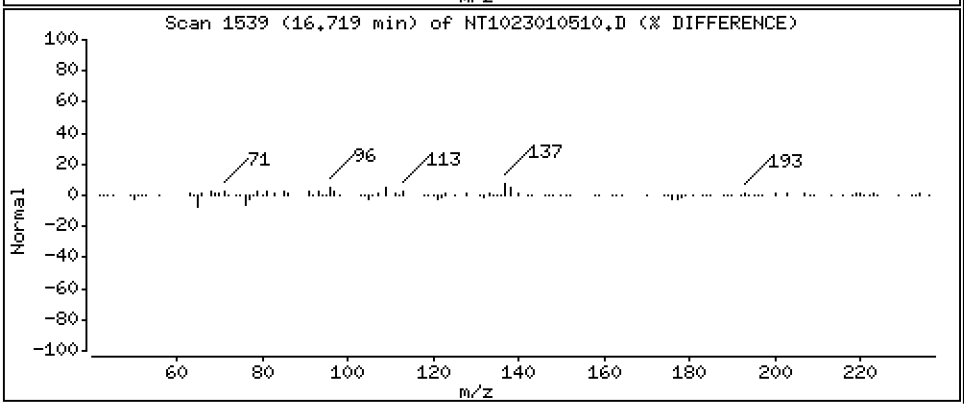












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

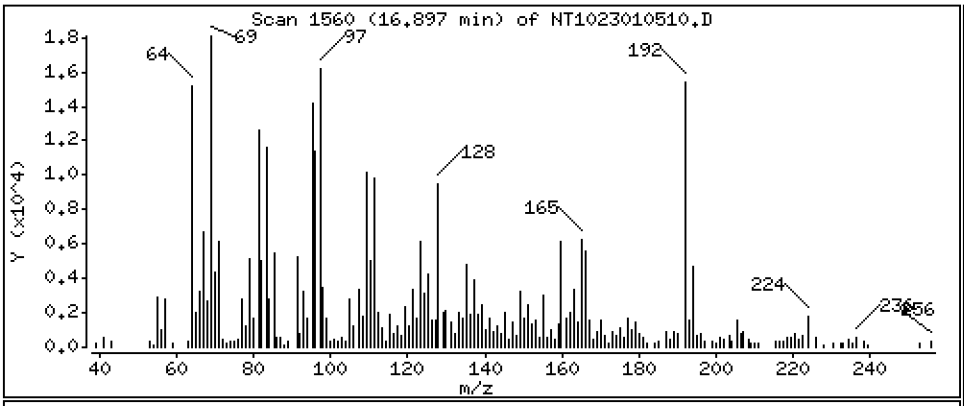
Operator: VTS

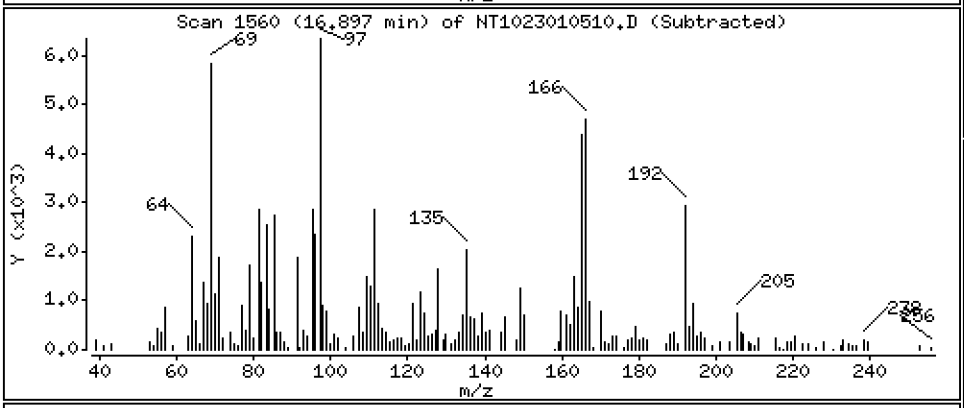
Column phase: ZB-5msi

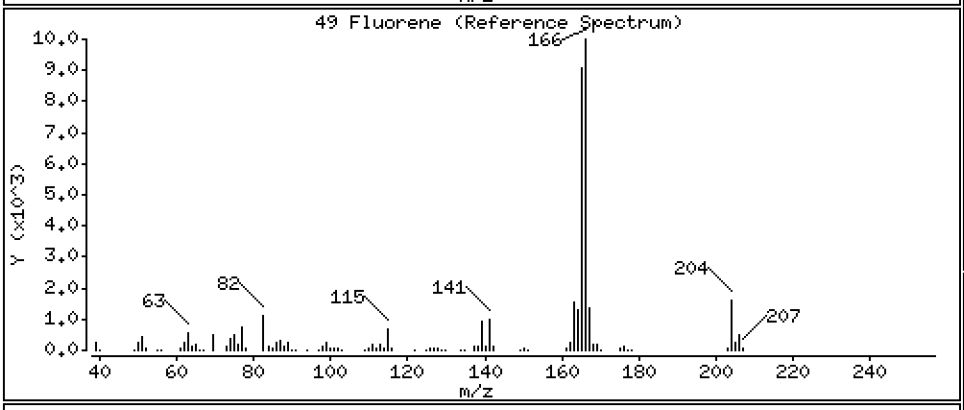
Column diameter: 0.25

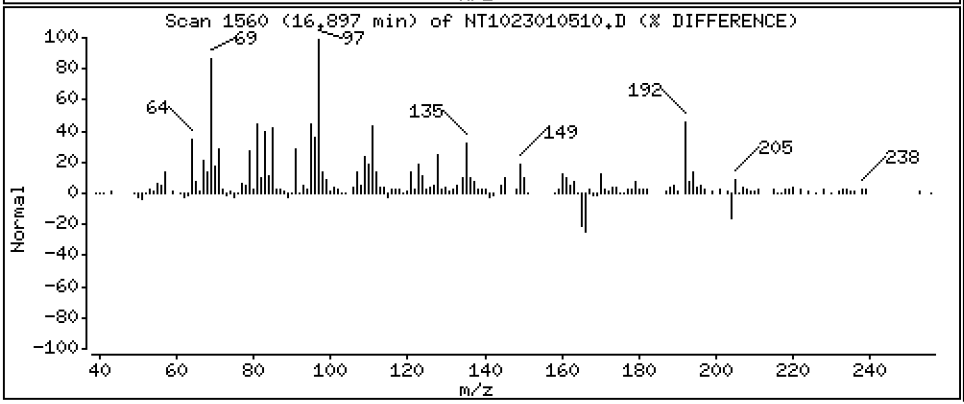
49 Fluorene

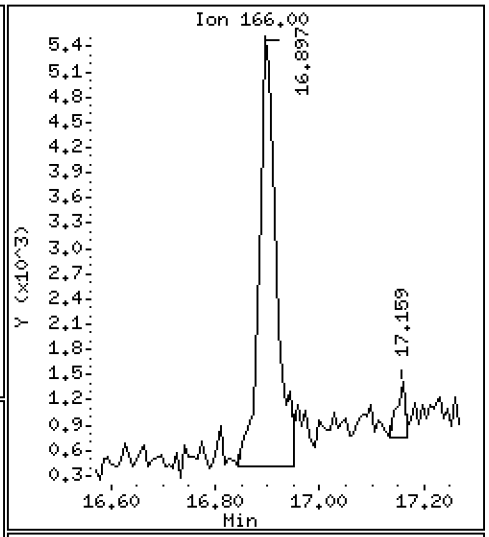
Concentration: 0.1809 ug/mL

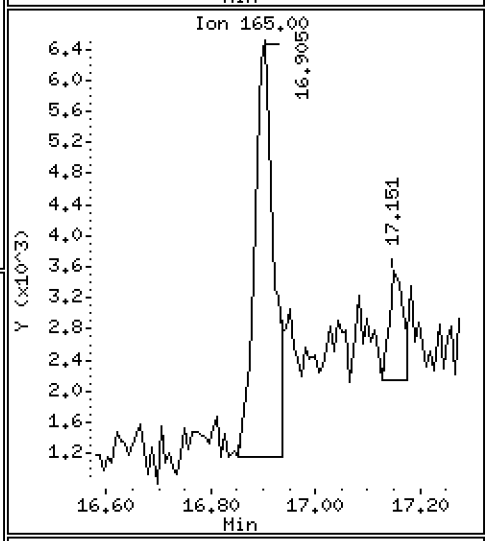


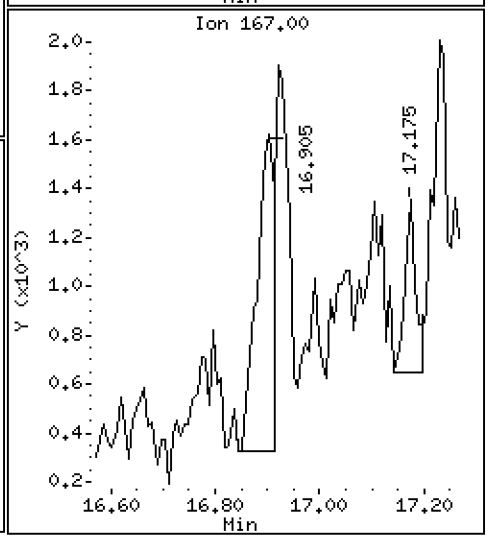












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

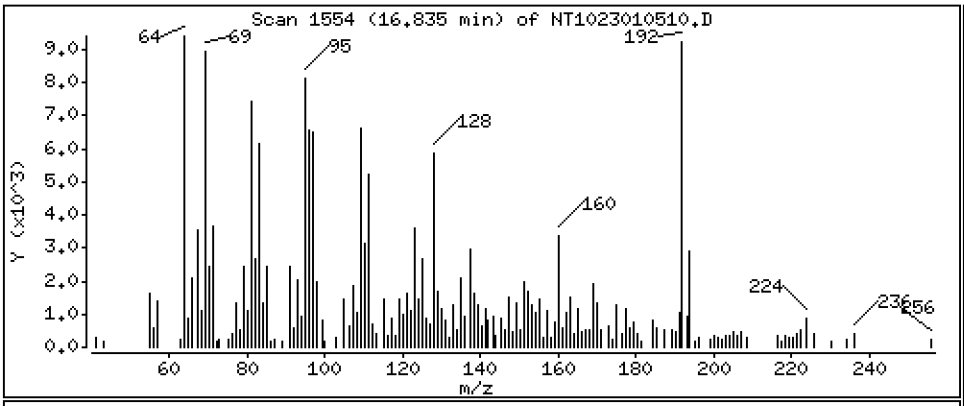
Operator: VTS

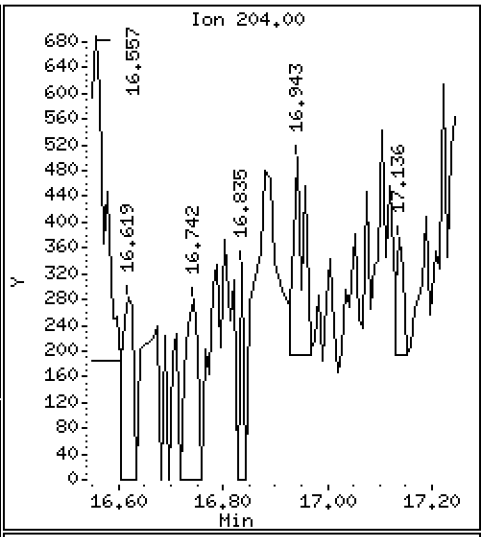
Column phase: ZB-5msi

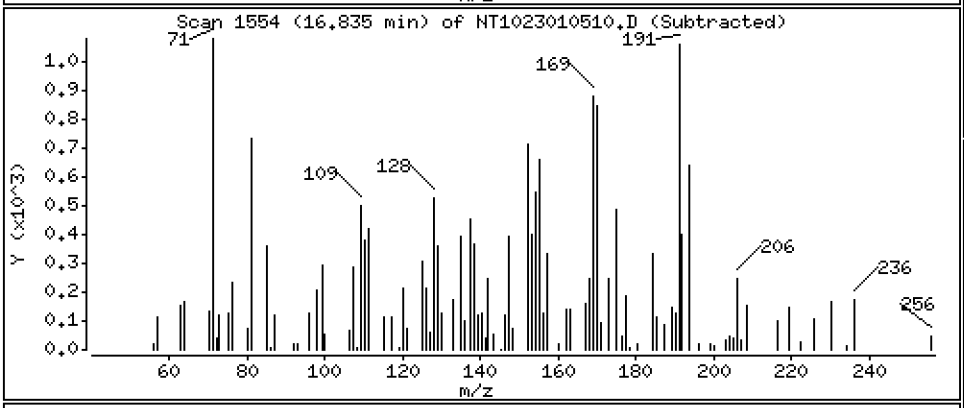
Column diameter: 0.25

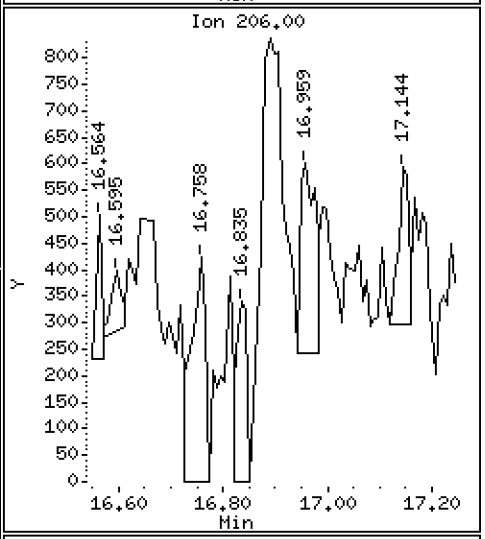
51 4-Chlorophenyl-phenylether

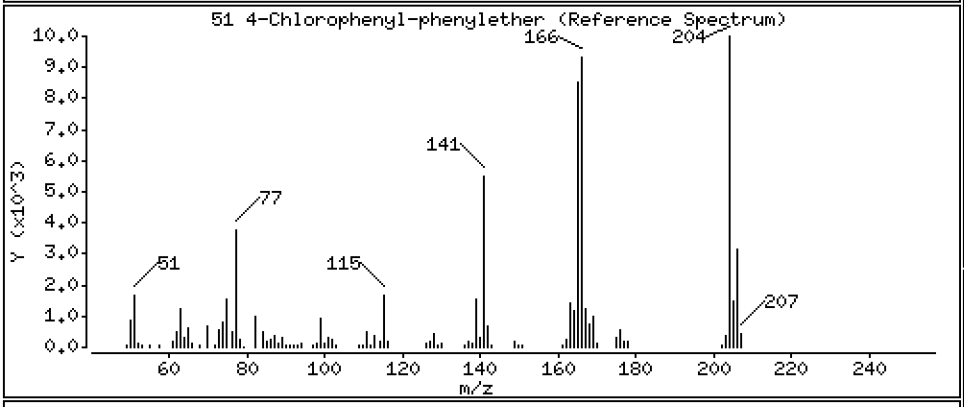
Concentration: 0.006919 ug/mL

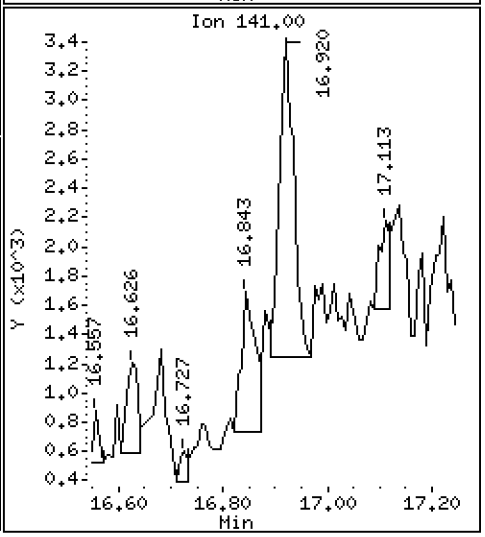


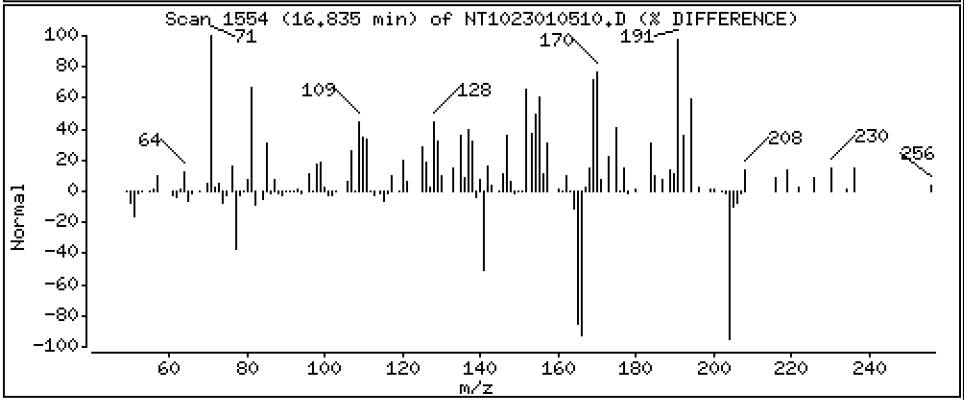












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

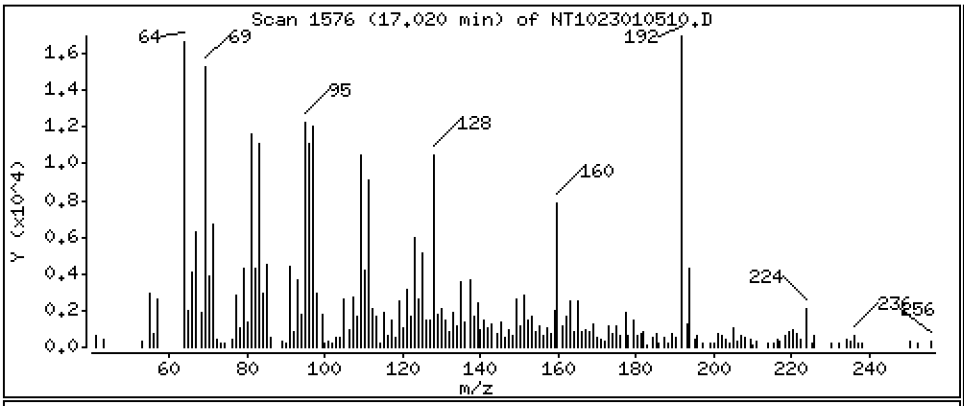
Operator: VTS

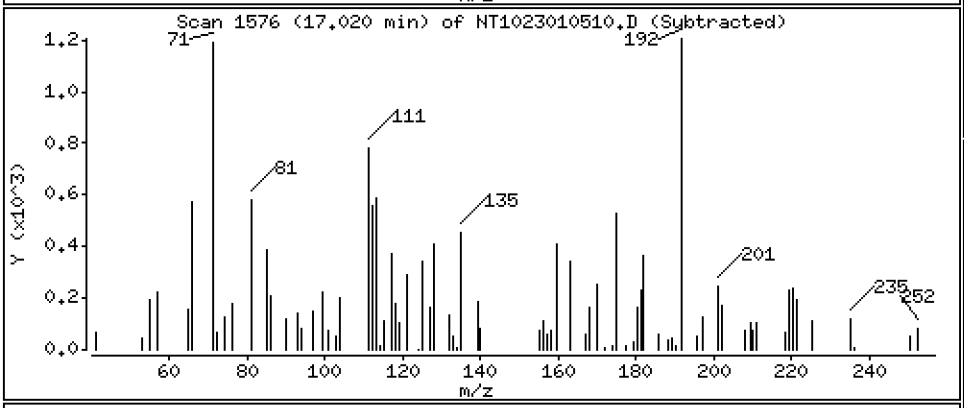
Column phase: ZB-5msi

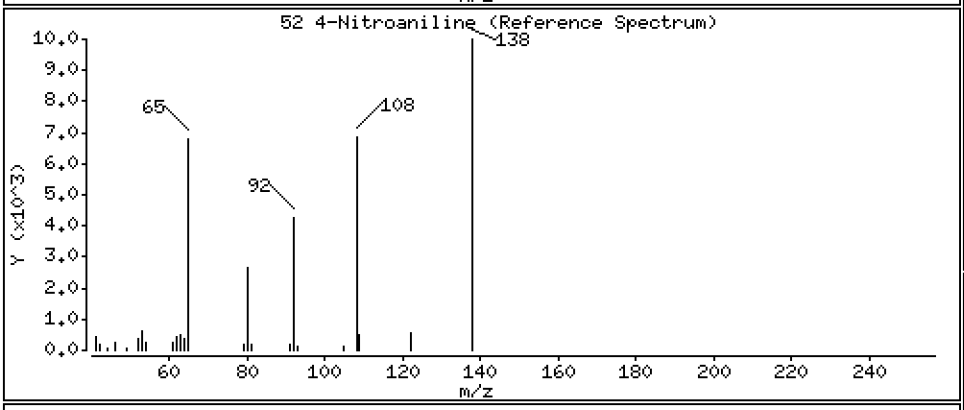
Column diameter: 0.25

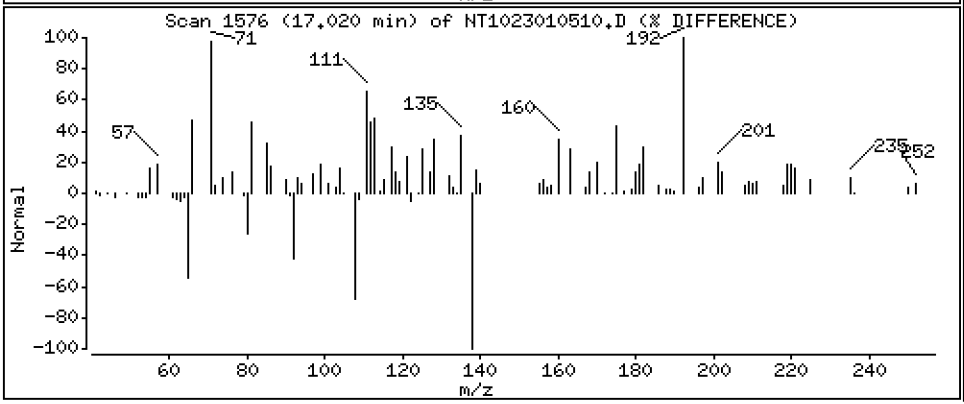
52 4-Nitroaniline

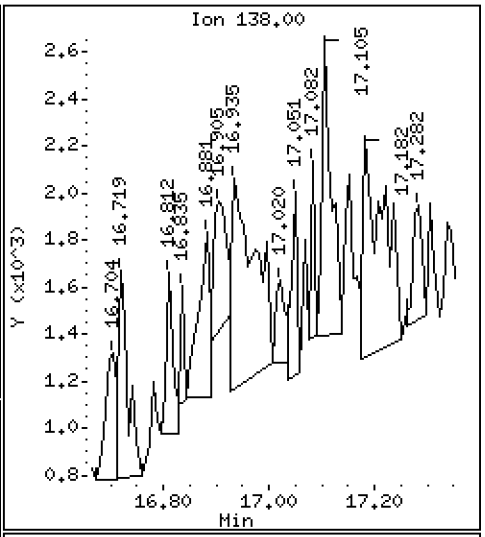
Concentration: 0.03135 ug/mL

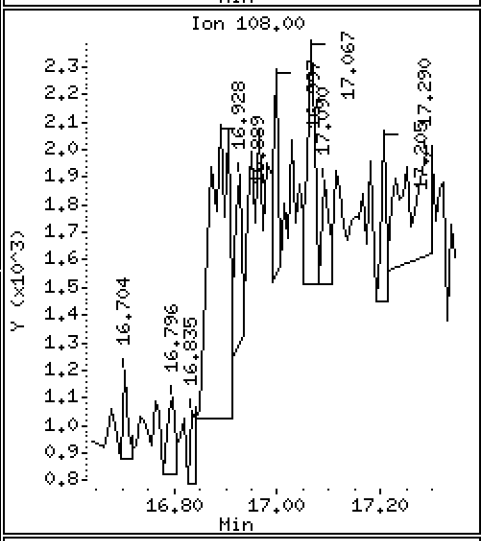


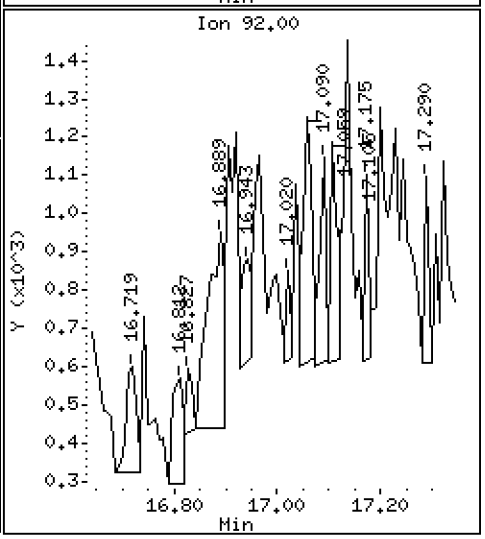












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

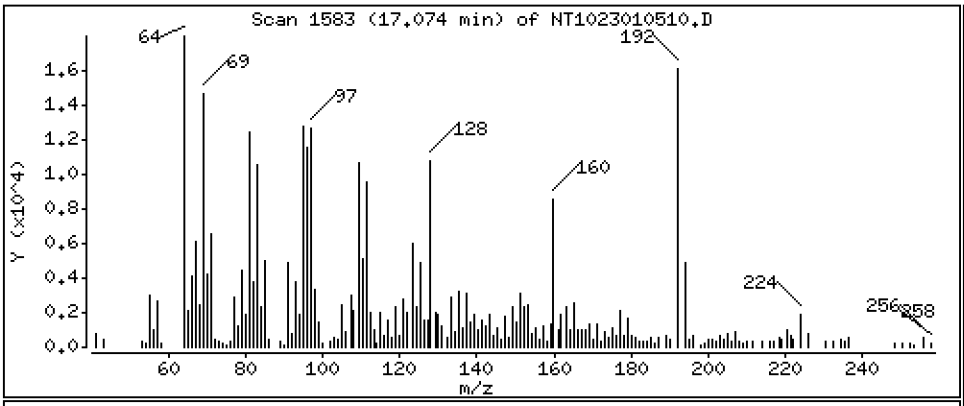
Operator: VTS

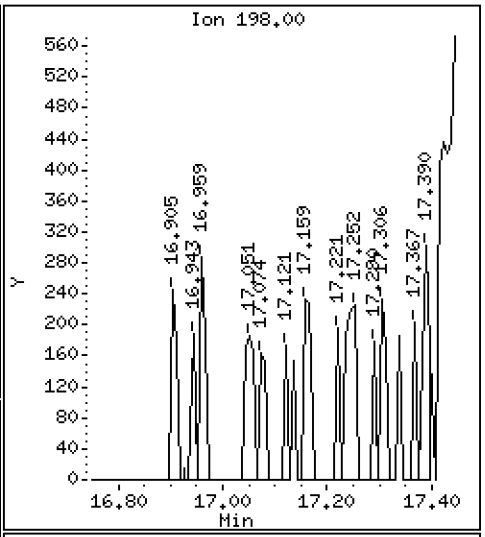
Column phase: ZB-5msi

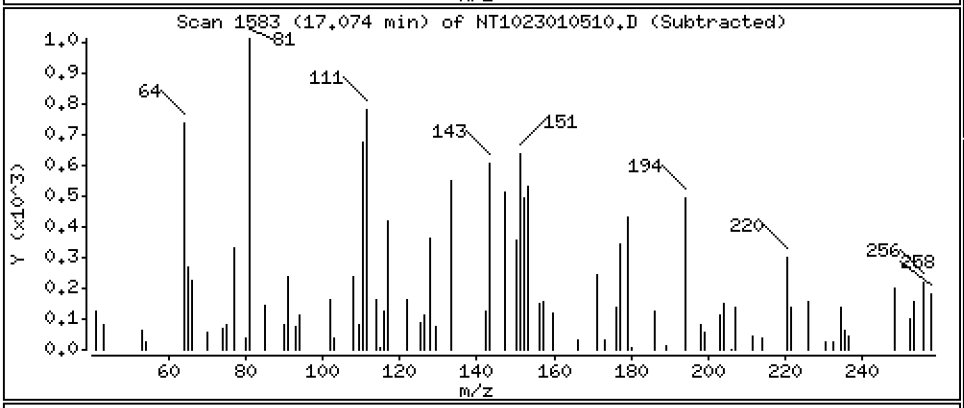
Column diameter: 0.25

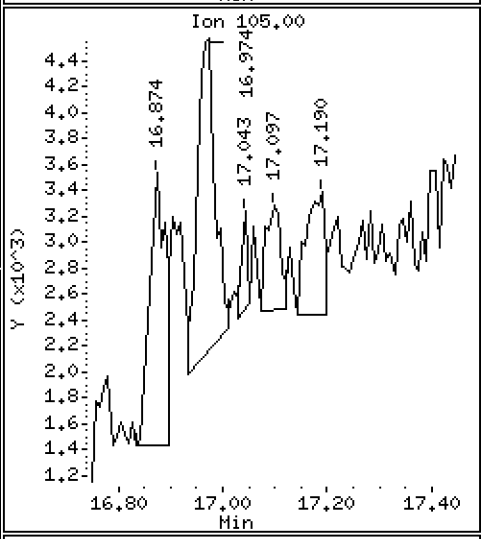
53 4,6-Dinitro-2-methylphenol

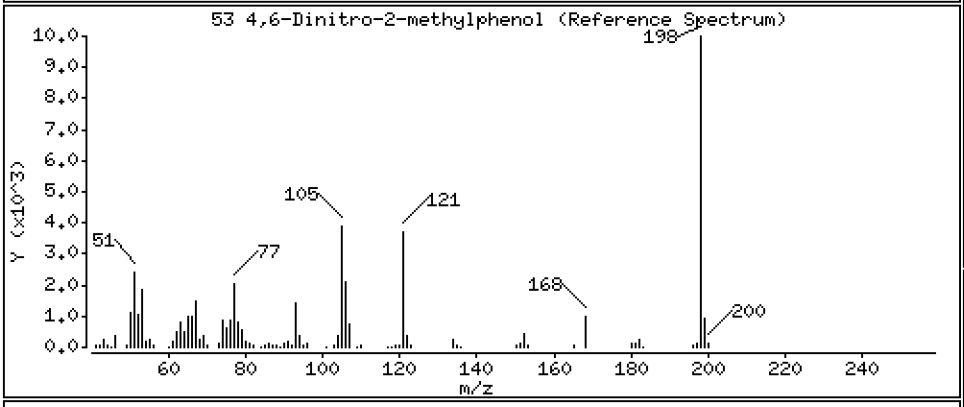
Concentration: 0.01831 ug/mL

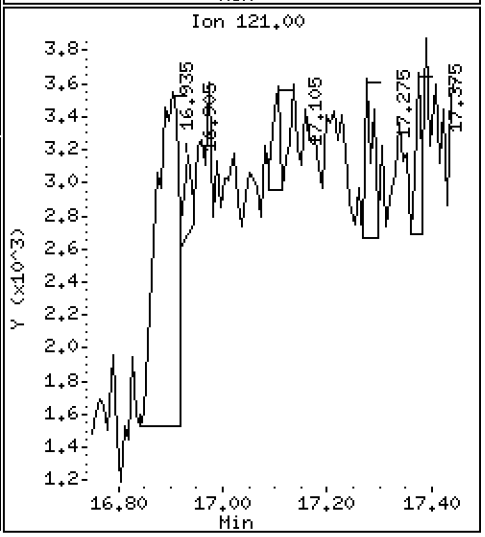


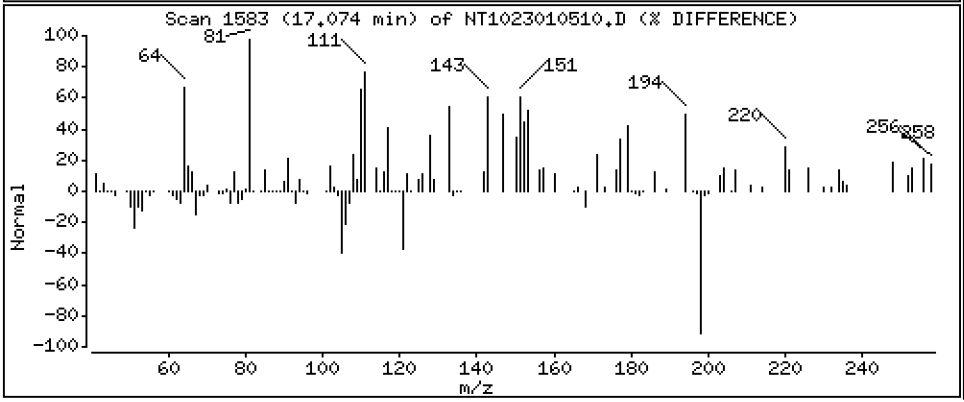












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

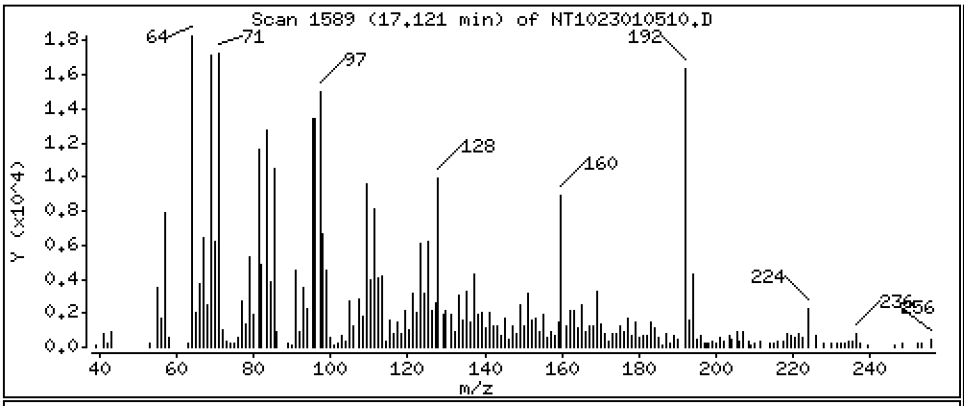
Operator: VTS

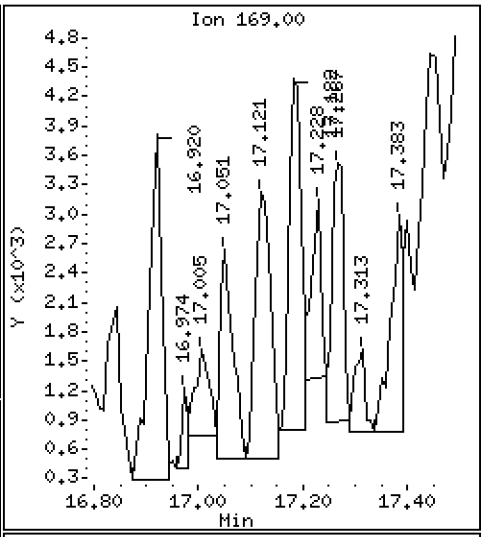
Column phase: ZB-5msi

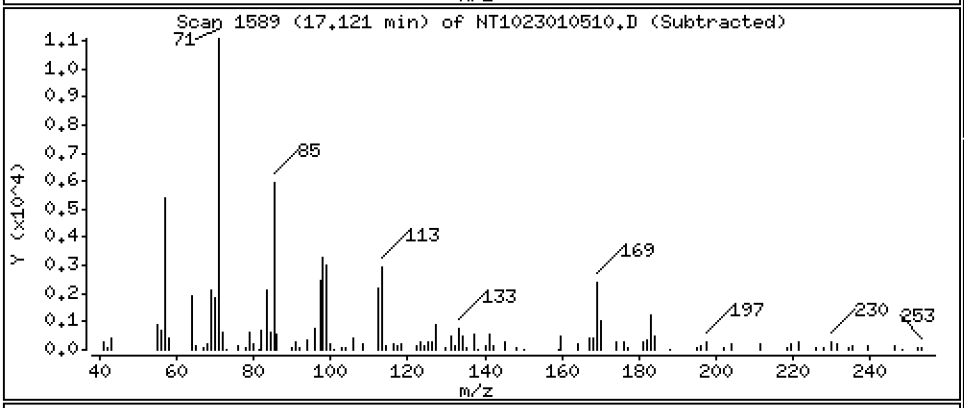
Column diameter: 0.25

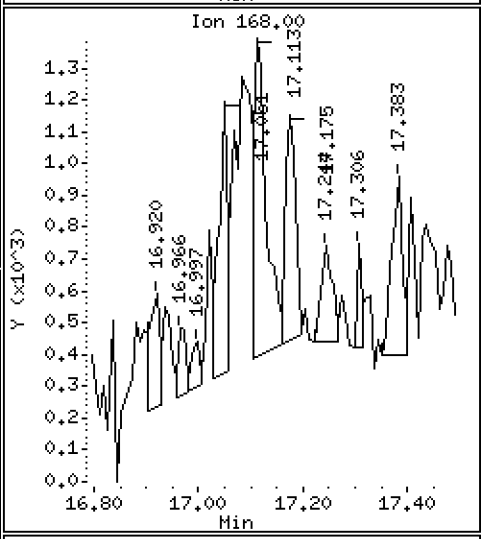
54 N-Nitrosodiphenylamine

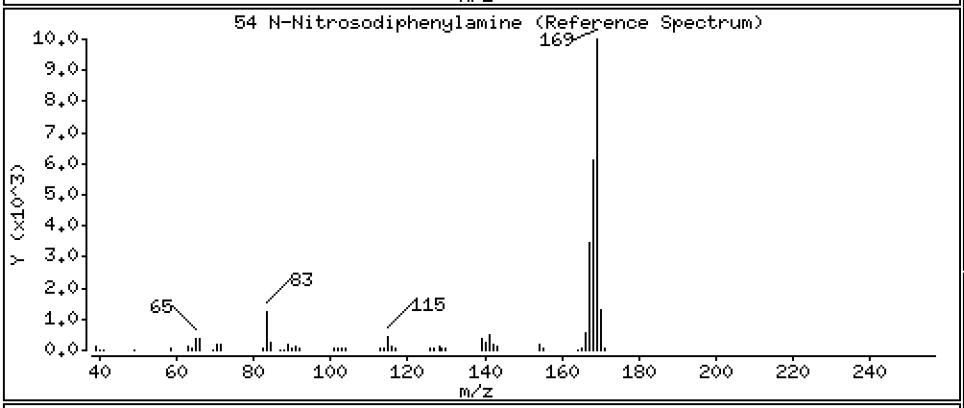
Concentration: 0.1604 ug/mL

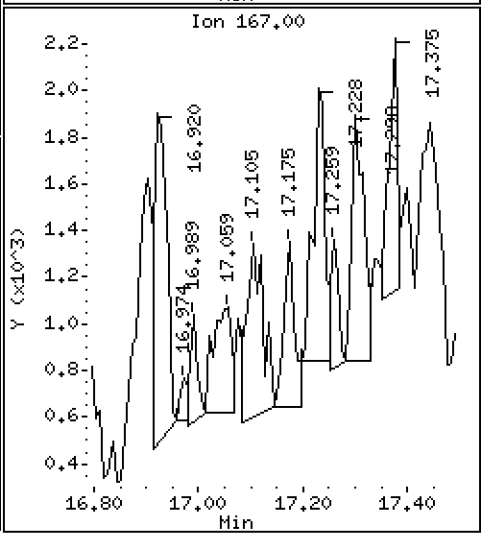


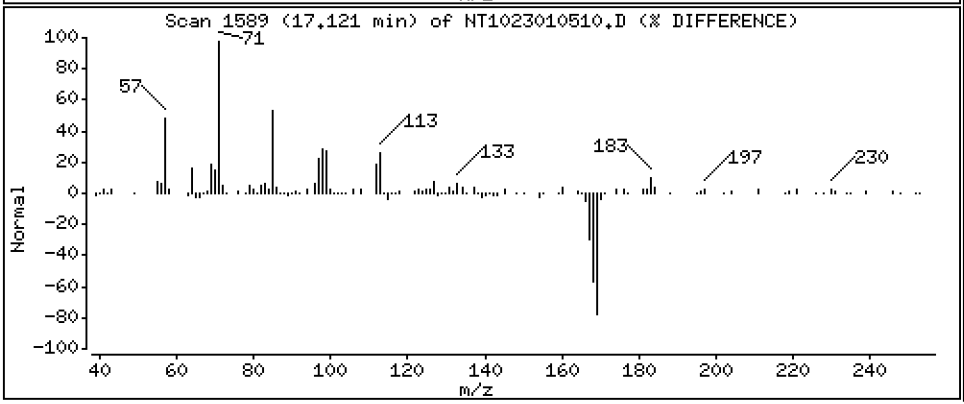












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

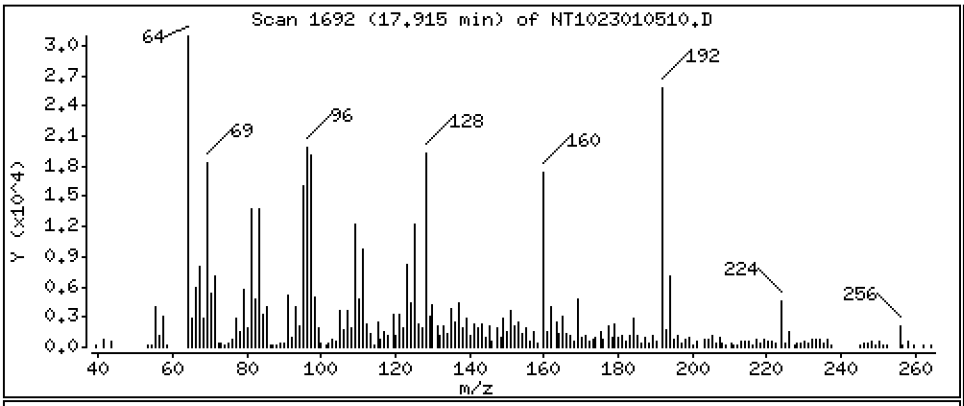
Operator: VTS

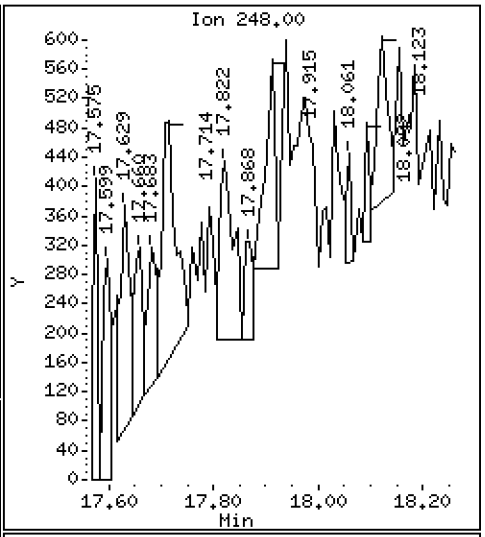
Column phase: ZB-5msi

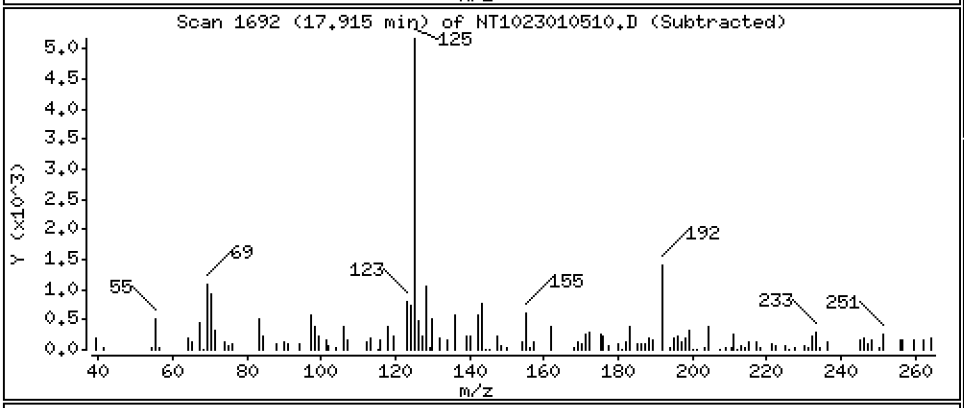
Column diameter: 0.25

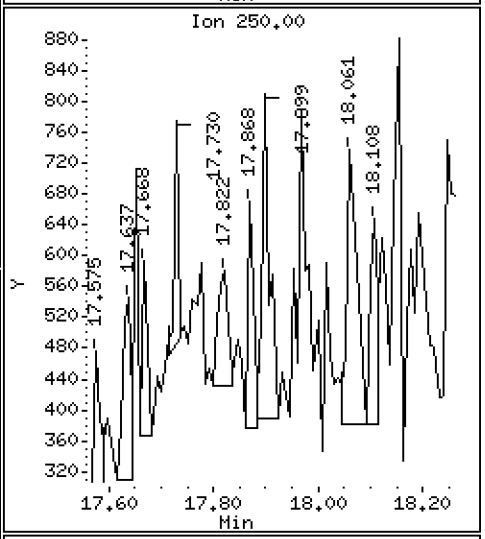
56 4-Bromophenyl-phenylether

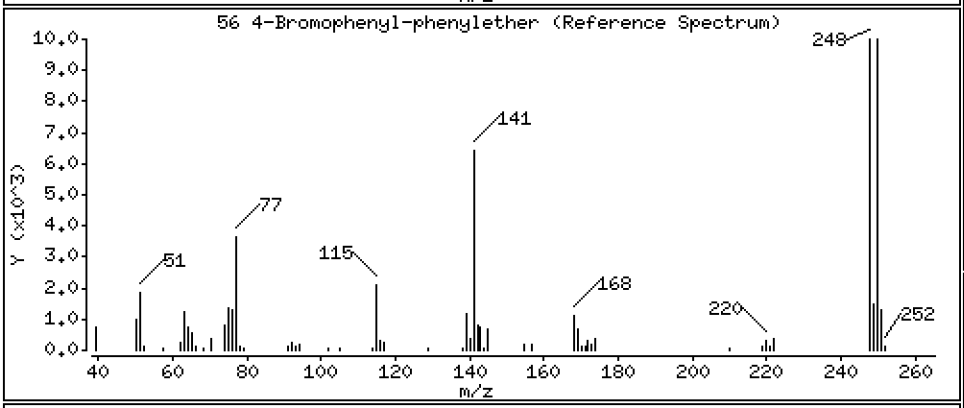
Concentration: 0.03816 ug/mL

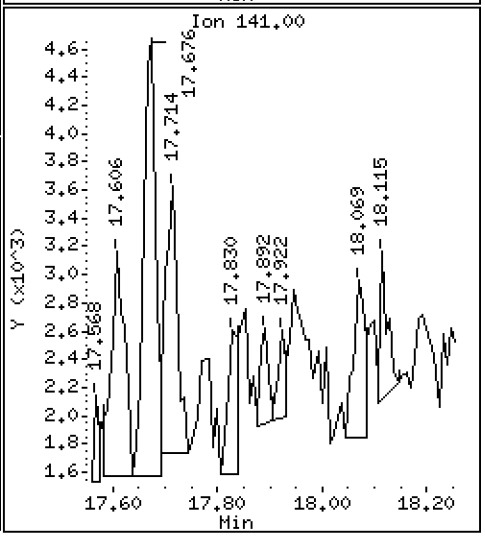


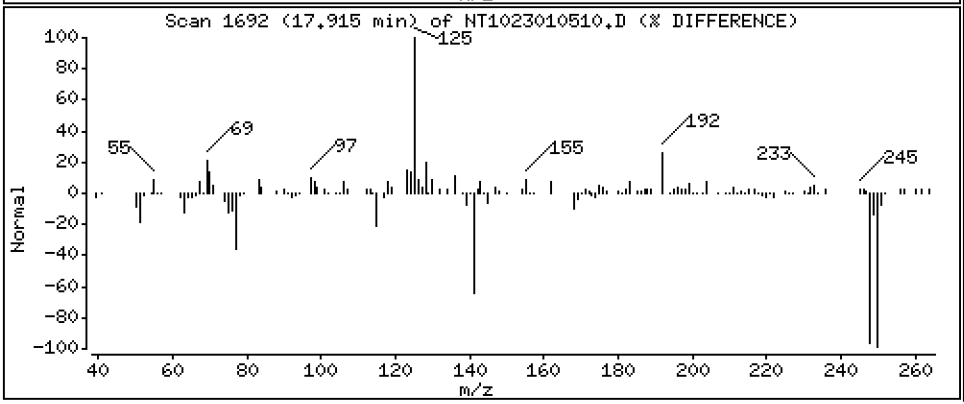












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

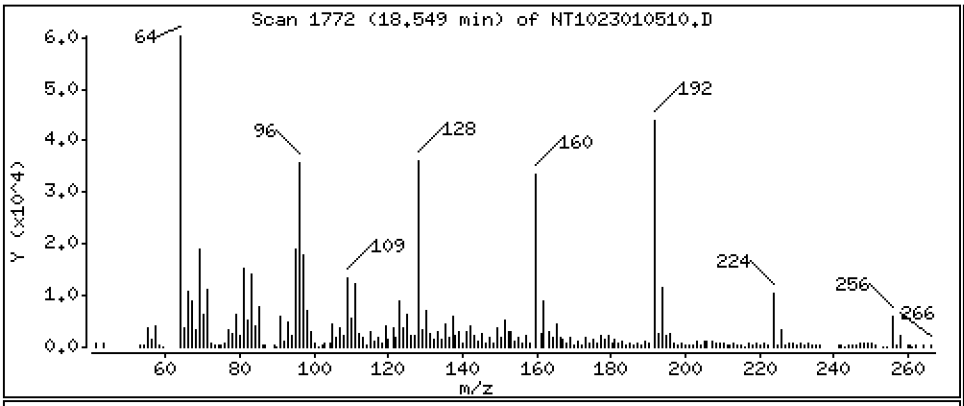
Operator: VTS

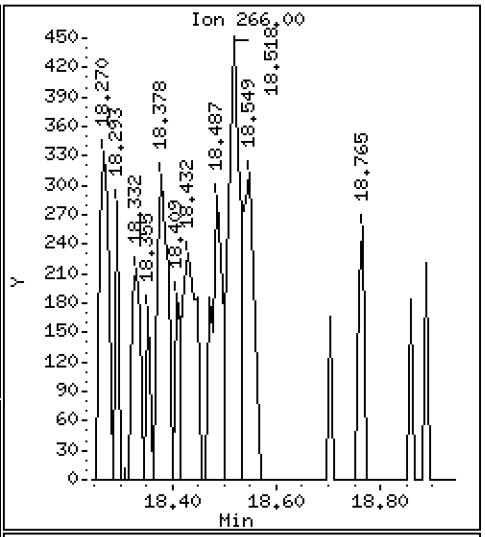
Column phase: ZB-5msi

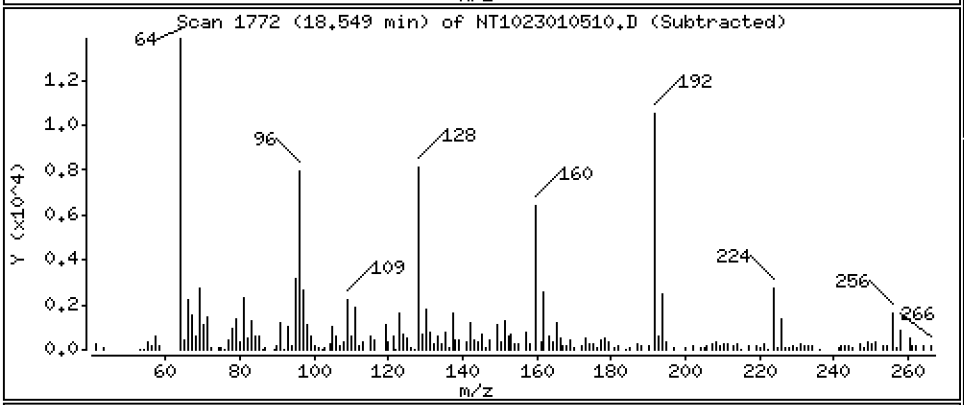
Column diameter: 0.25

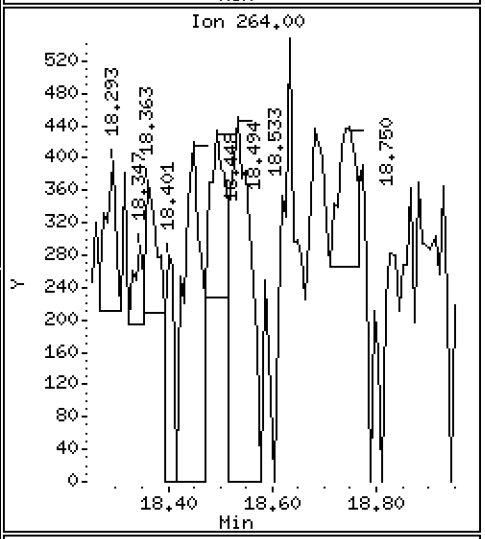
58 Pentachlorophenol

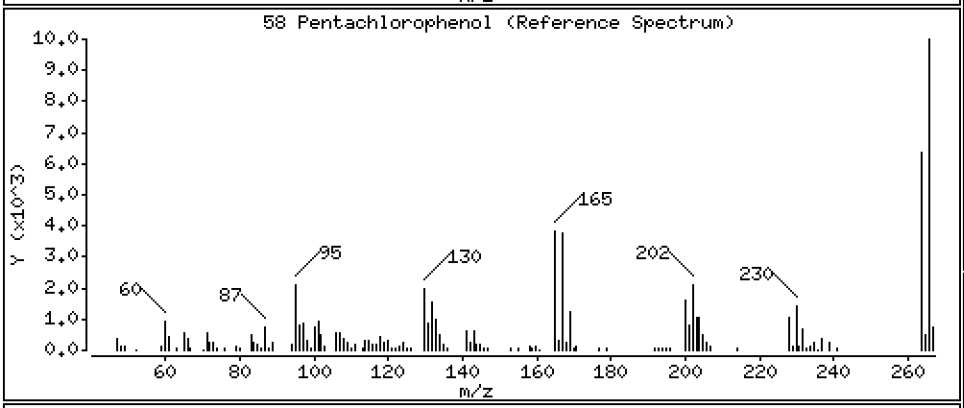
Concentration: 0.4957 ug/mL

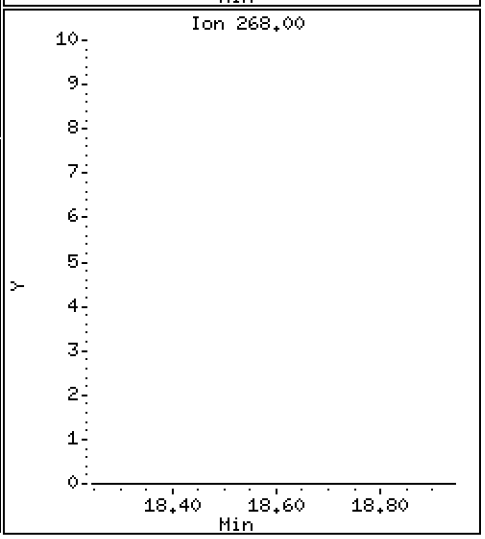


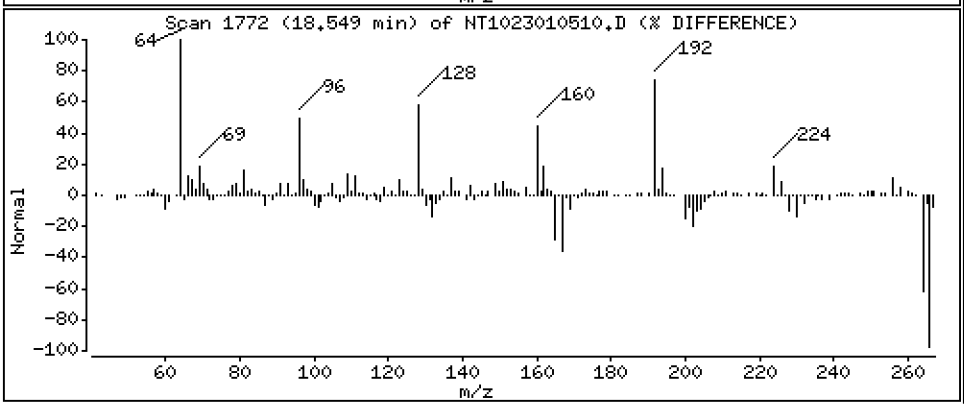












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

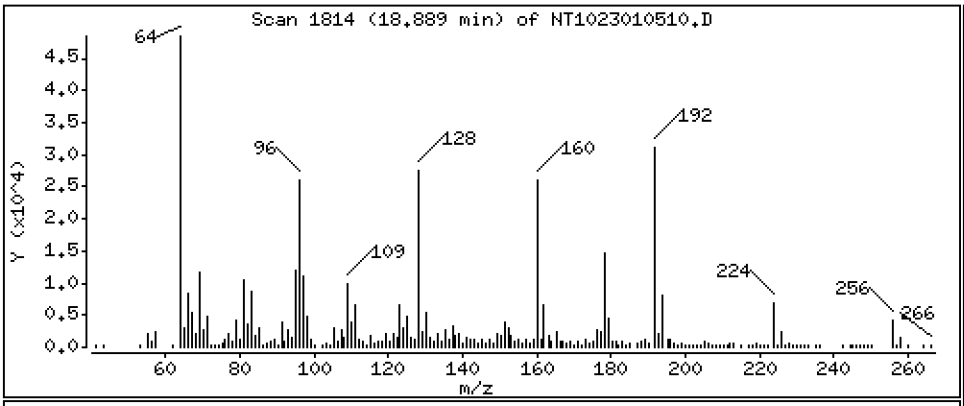
Operator: VTS

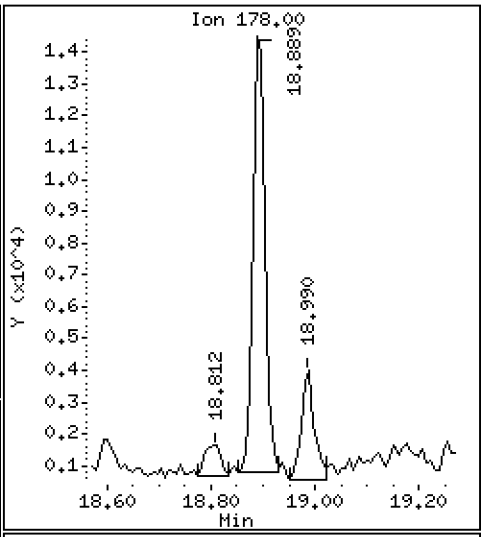
Column phase: ZB-5msi

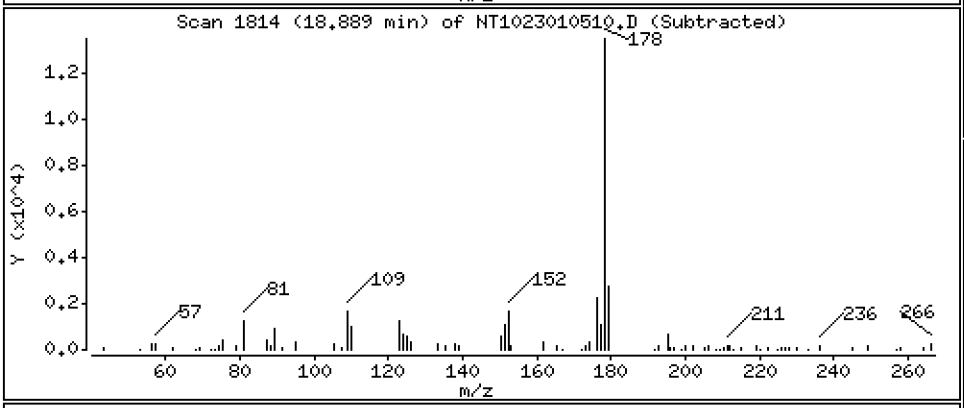
Column diameter: 0.25

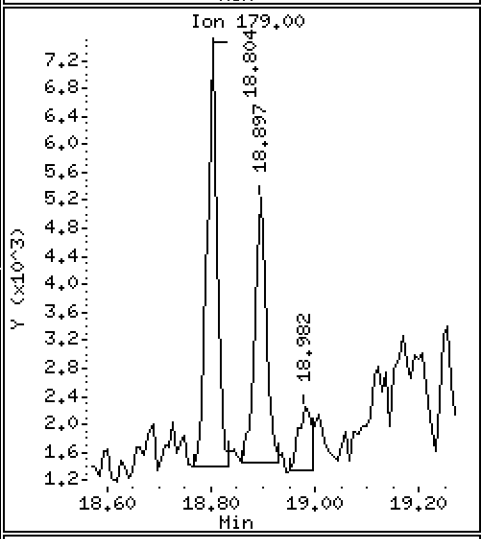
60 Phenanthrene

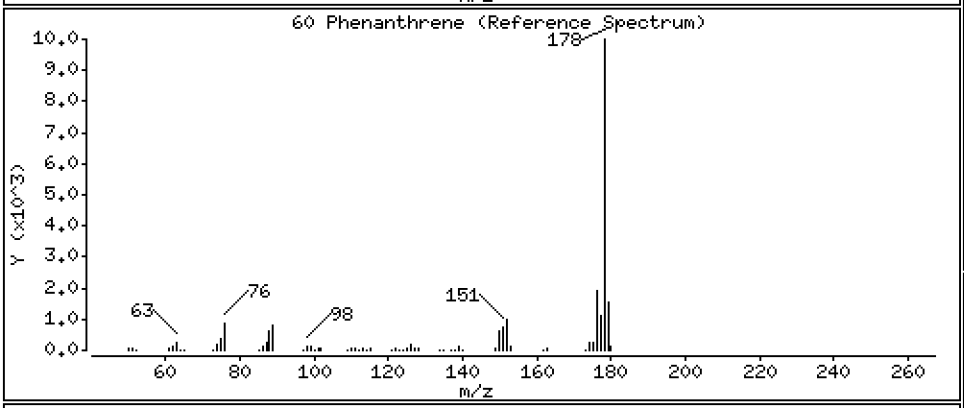
Concentration: 0.5009 ug/mL

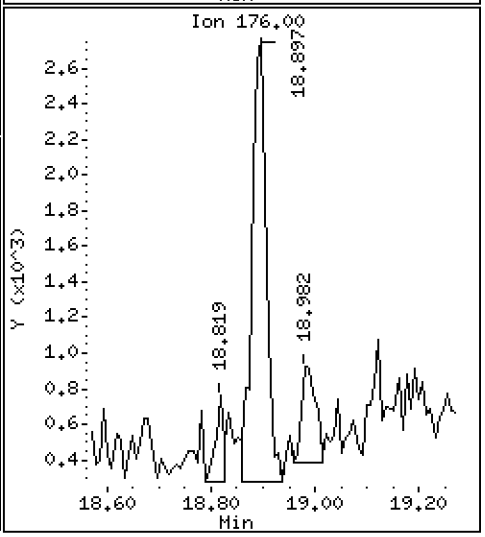


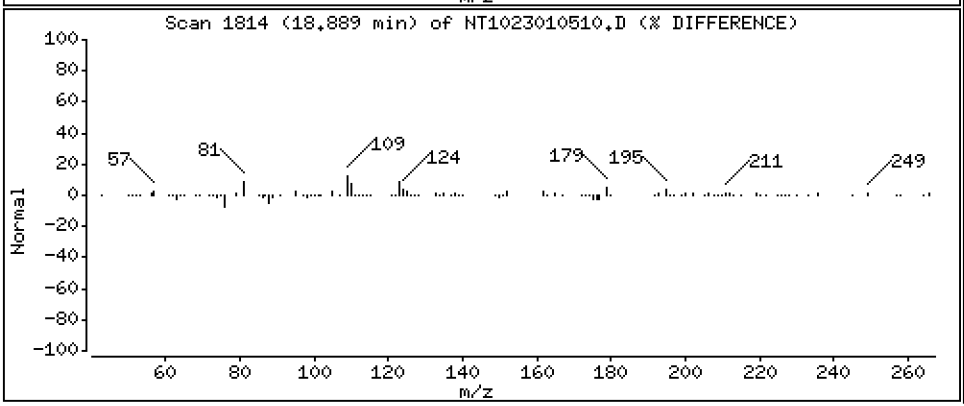












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

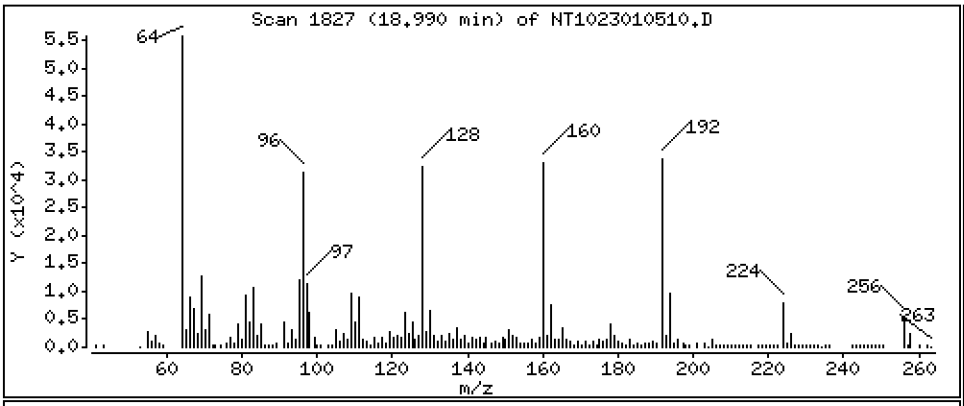
Operator: VTS

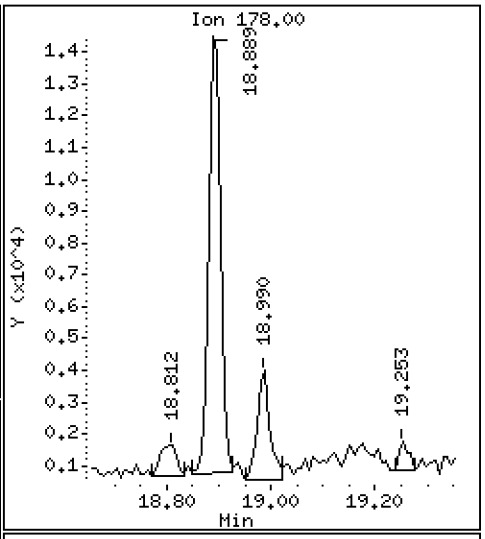
Column phase: ZB-5msi

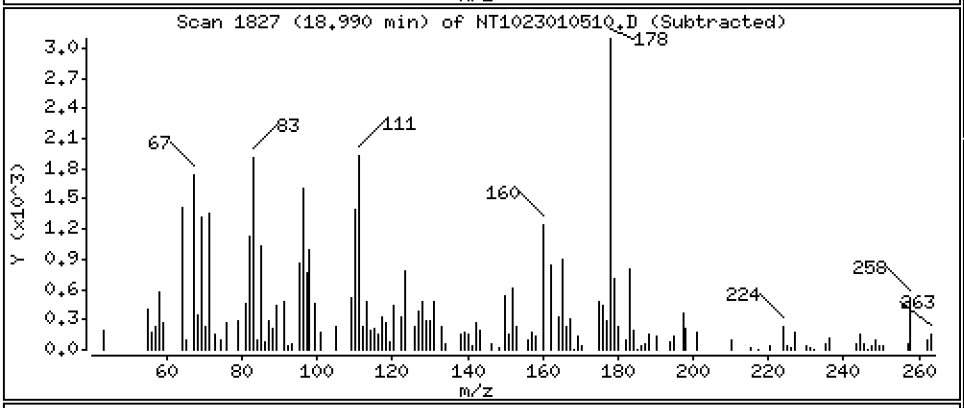
Column diameter: 0.25

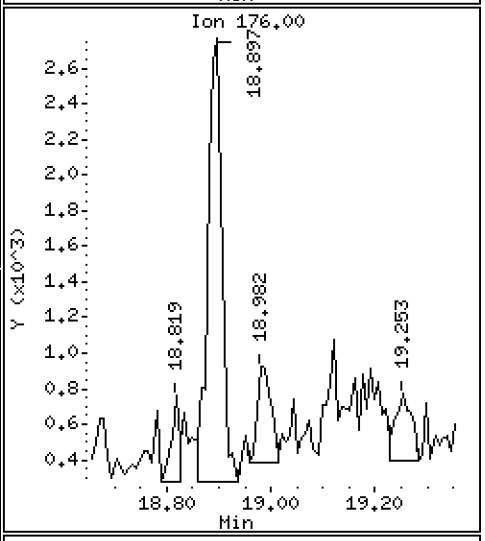
61 Anthracene

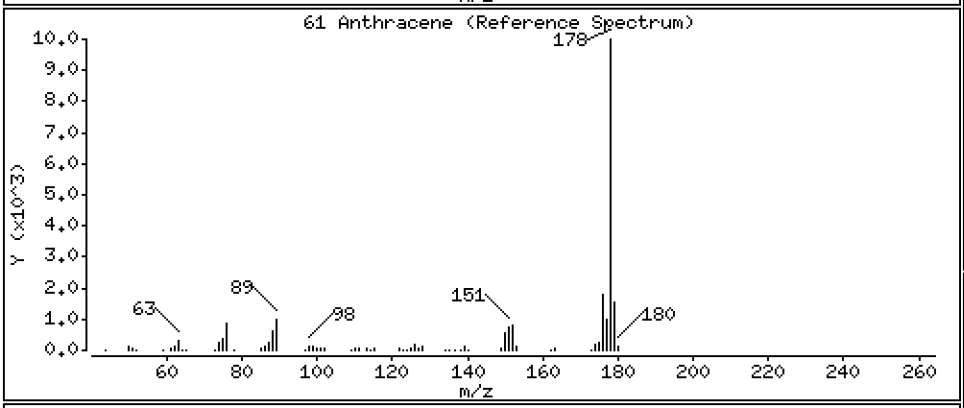
Concentration: 0.1345 ug/mL

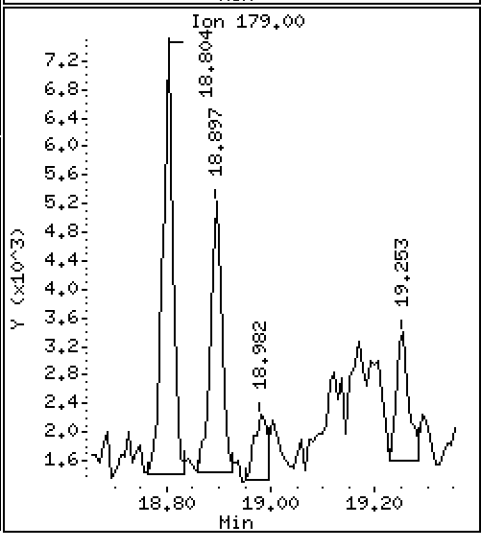


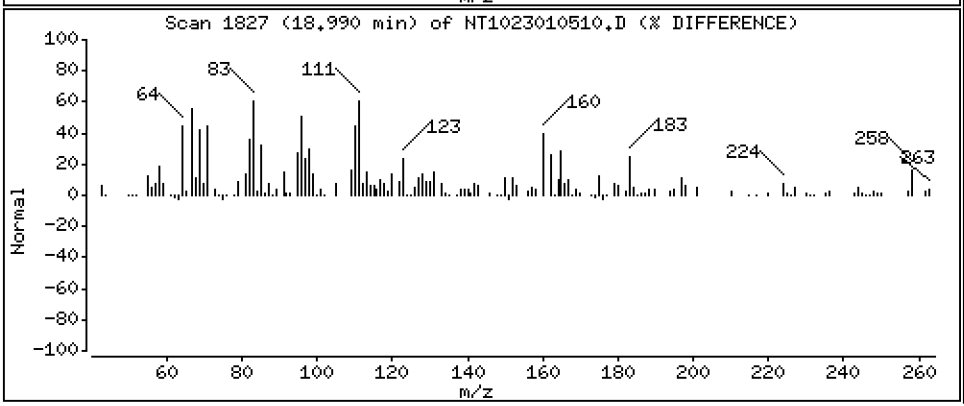












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

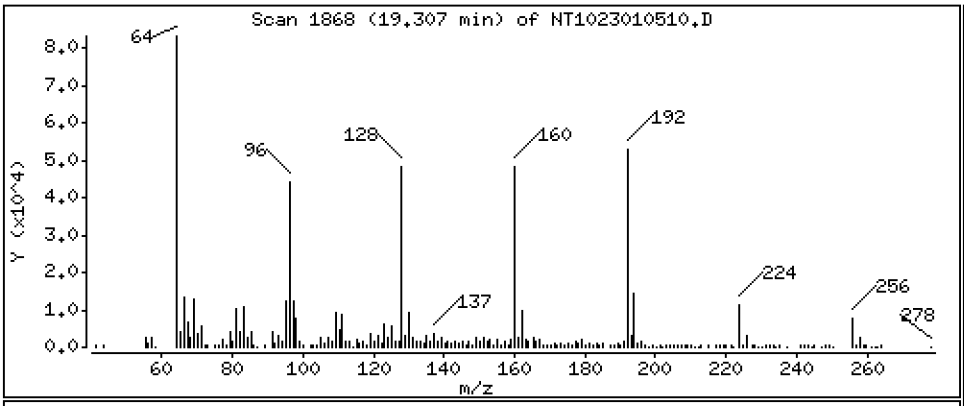
Operator: VTS

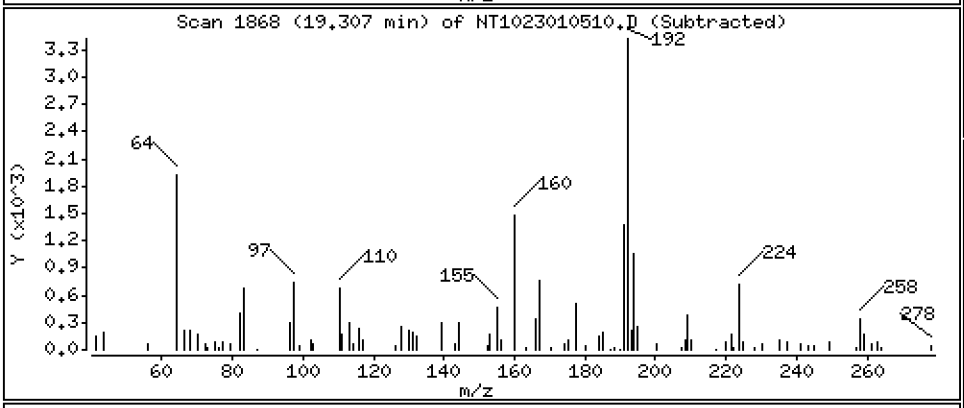
Column phase: ZB-5msi

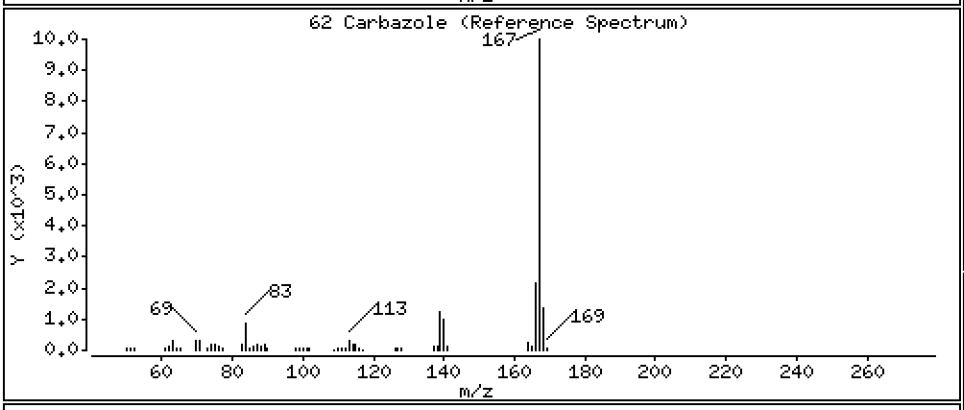
Column diameter: 0.25

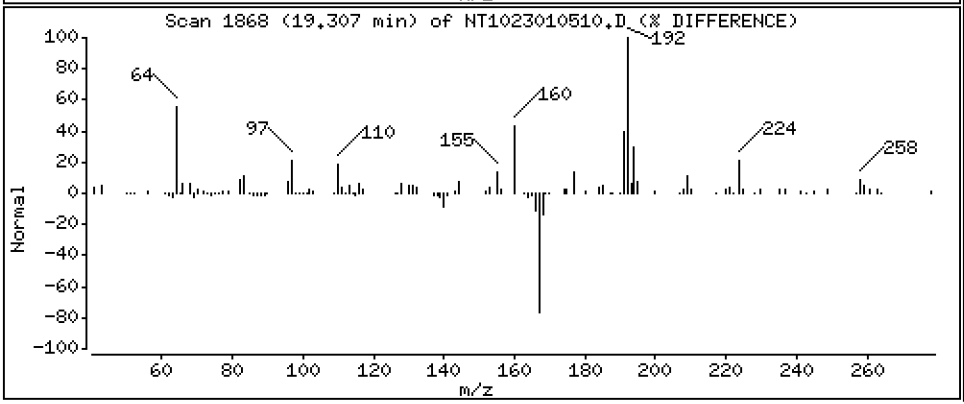
62 Carbazole

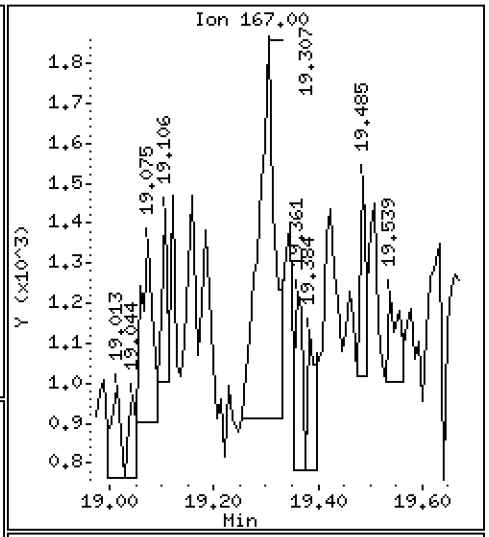
Concentration: 0.04318 ug/mL

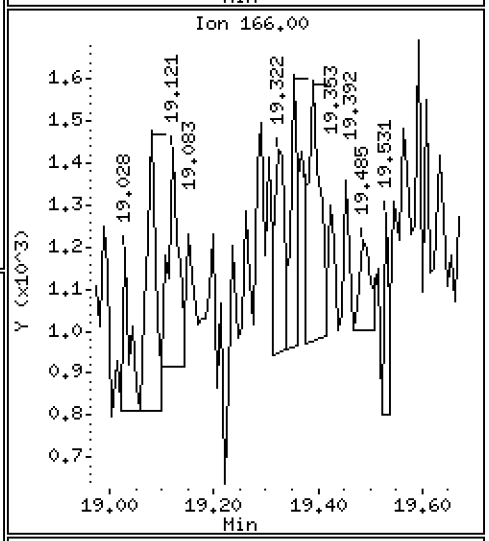


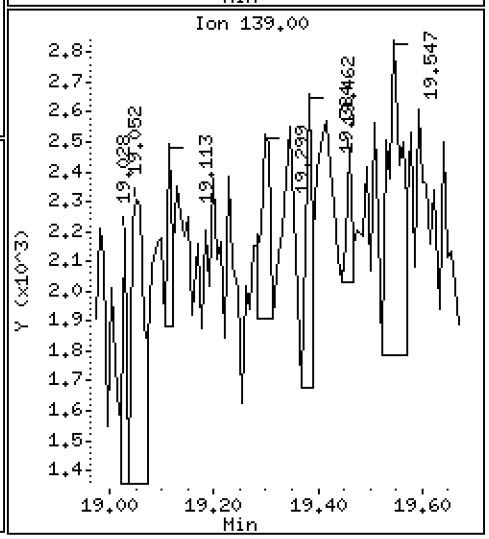












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

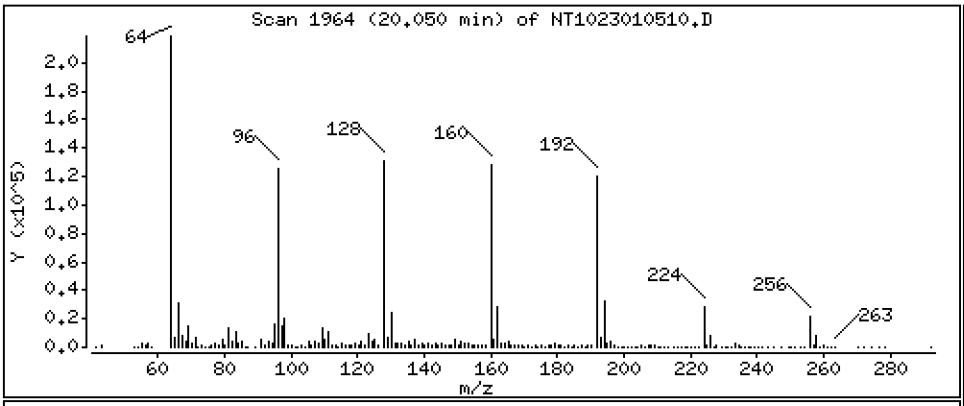
Operator: VTS

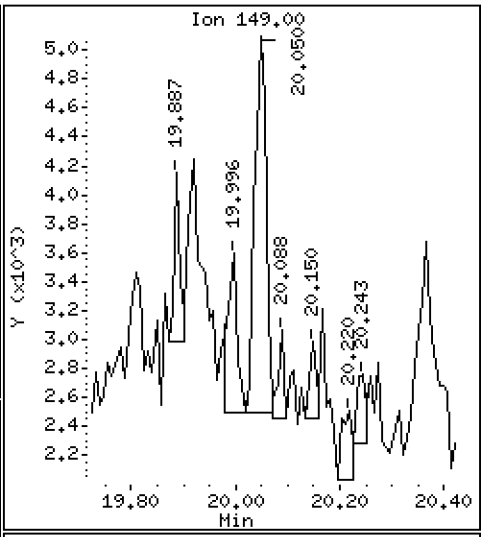
Column phase: ZB-5msi

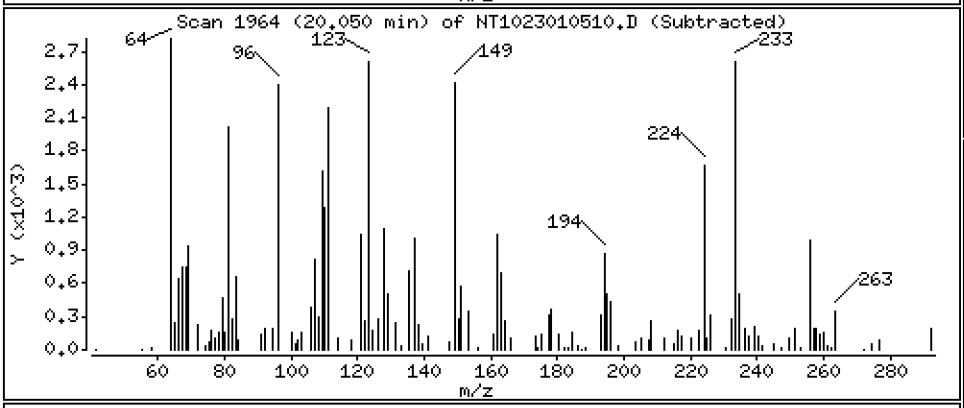
Column diameter: 0.25

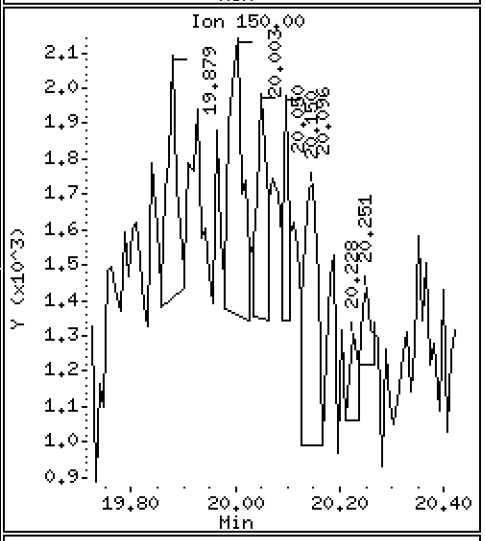
63 Di-n-butylphthalate

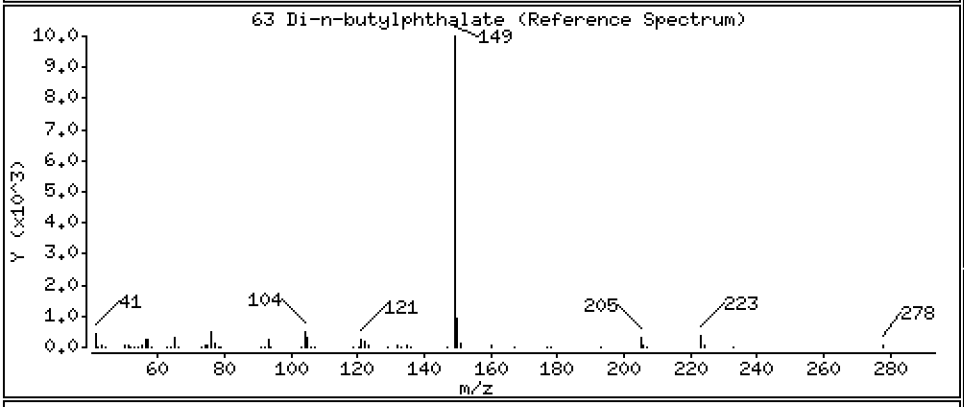
Concentration: 0.06707 ug/mL

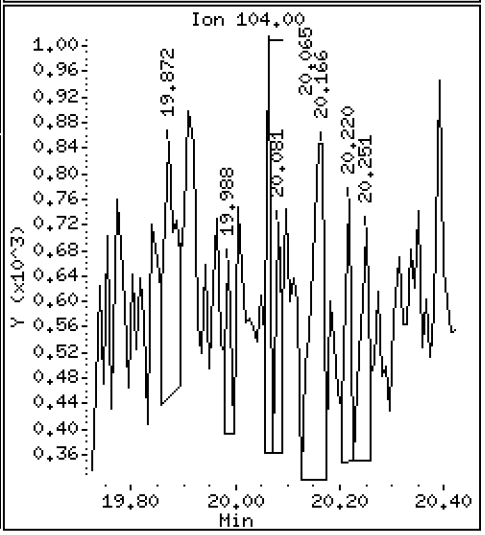


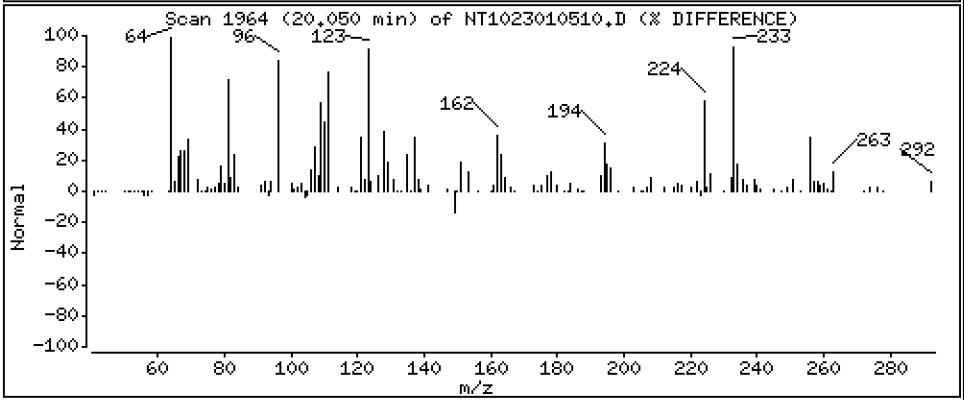












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

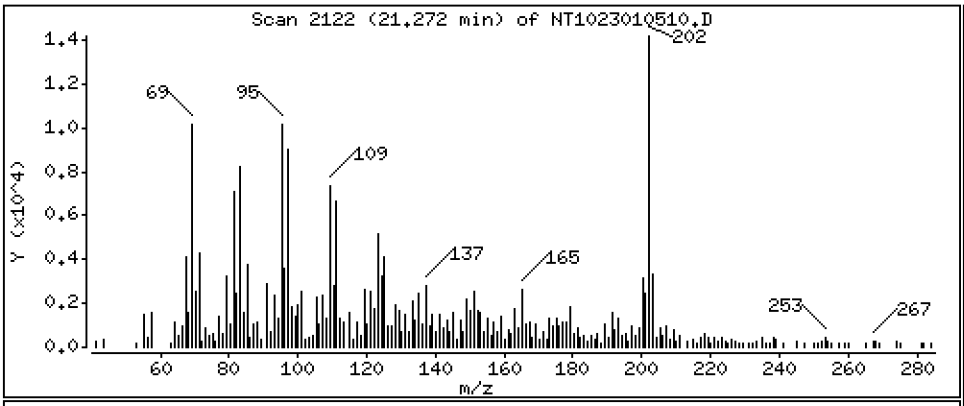
Operator: VTS

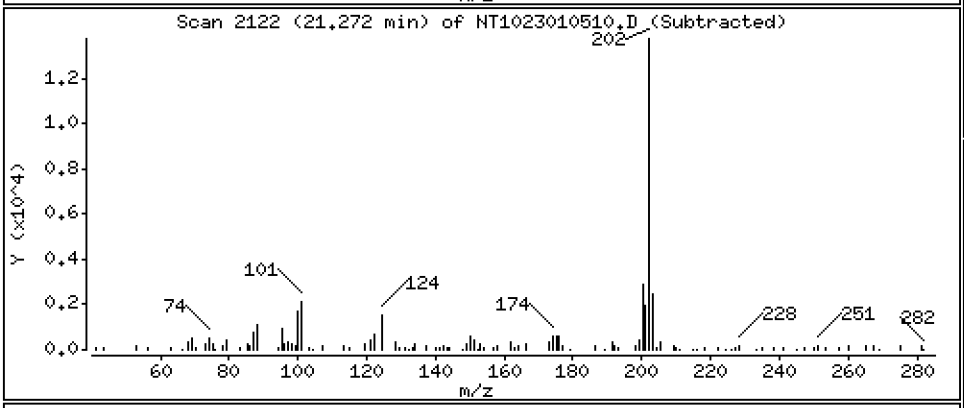
Column phase: ZB-5msi

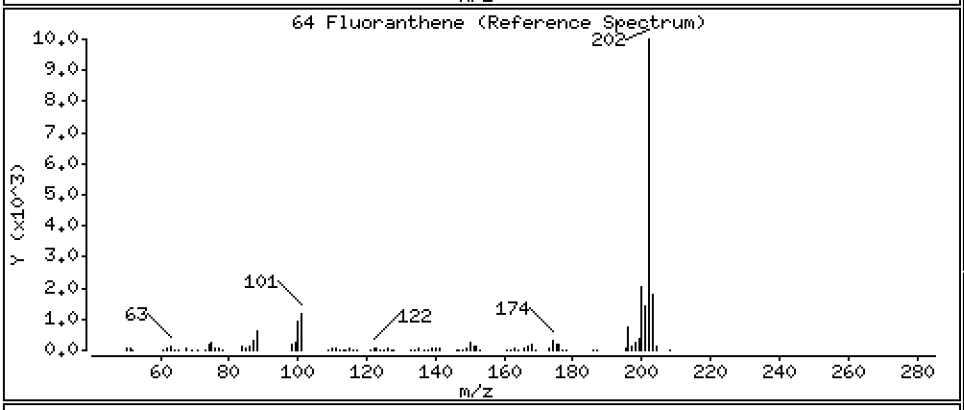
Column diameter: 0.25

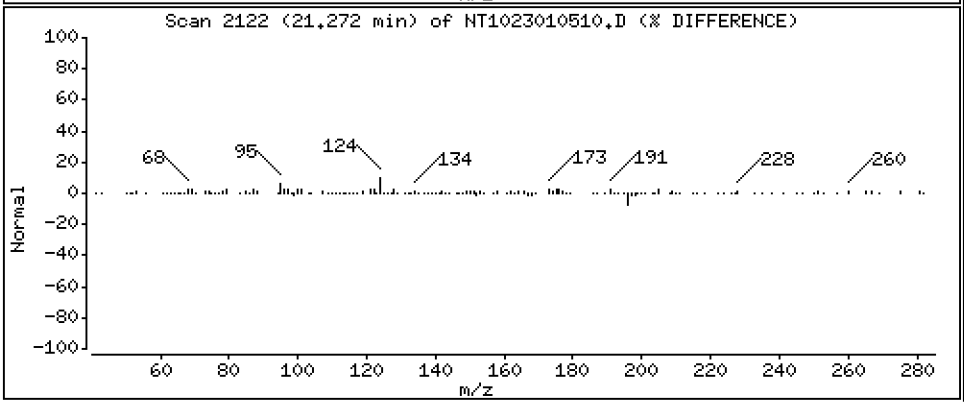
64 Fluoranthene

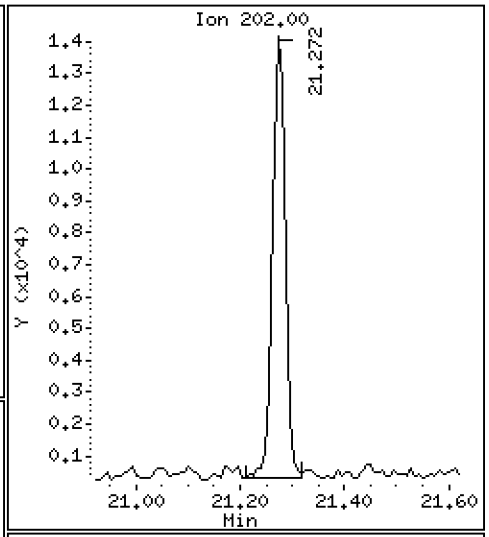
Concentration: 0.5769 ug/mL

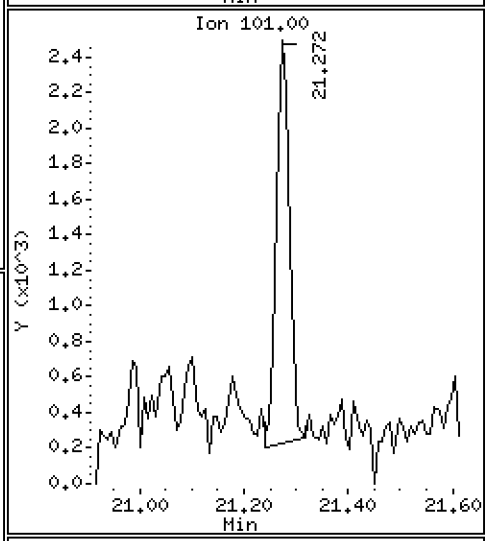


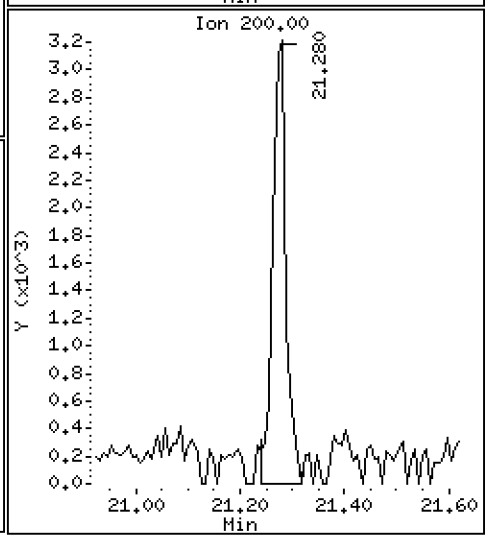












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

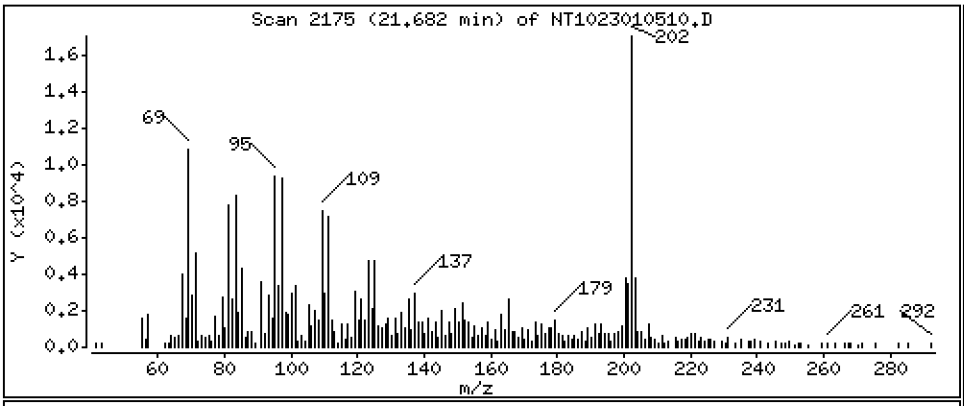
Operator: VTS

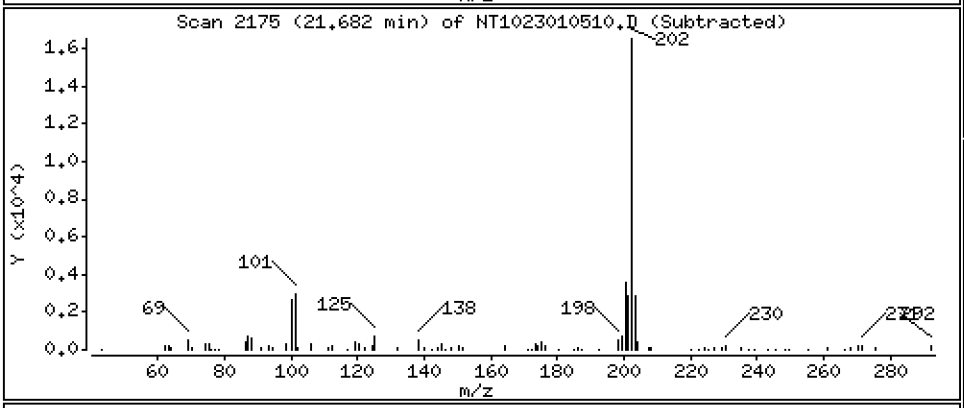
Column phase: ZB-5msi

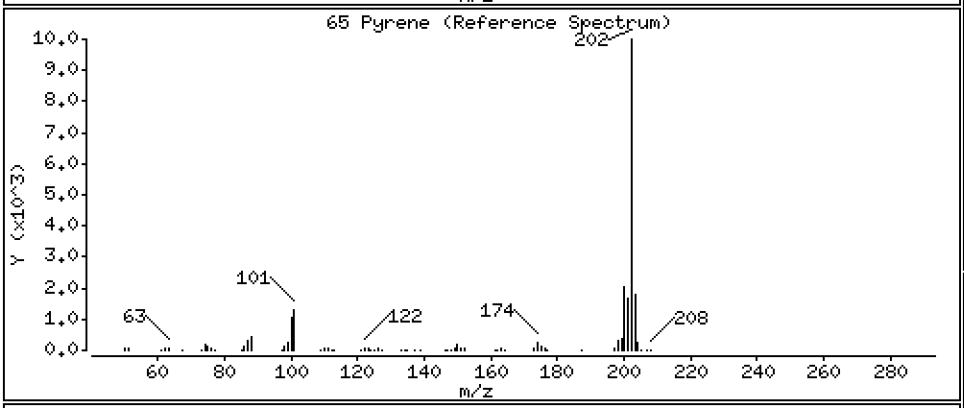
Column diameter: 0.25

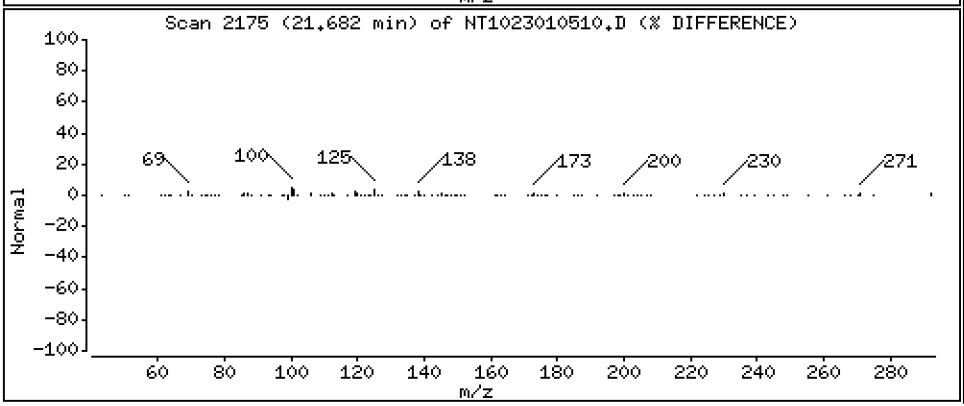
65 Pyrene

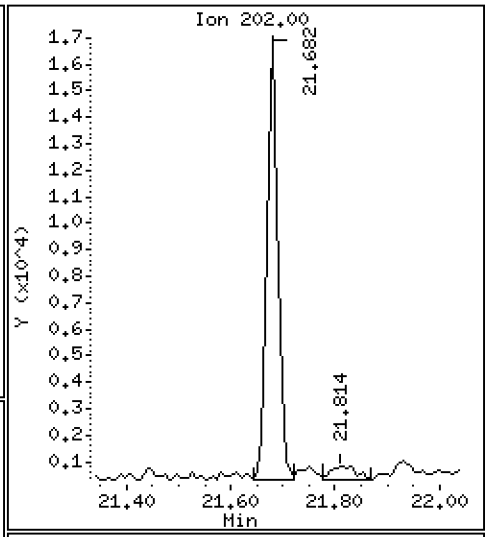
Concentration: 0.6159 ug/mL

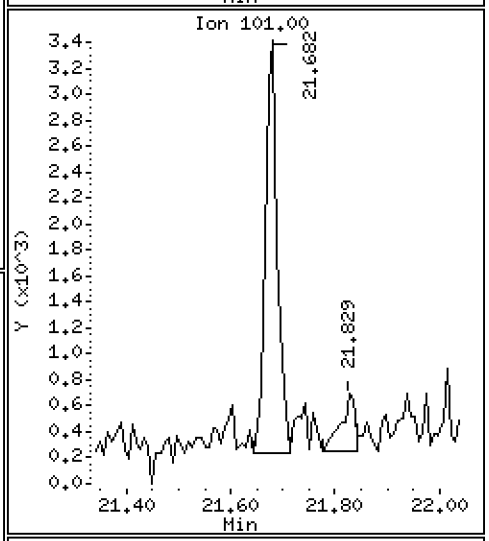


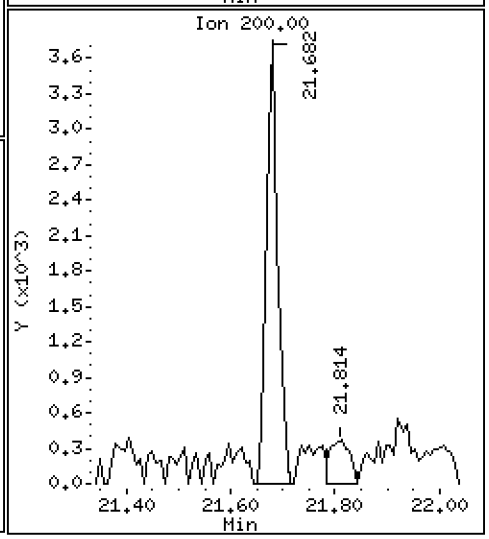












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

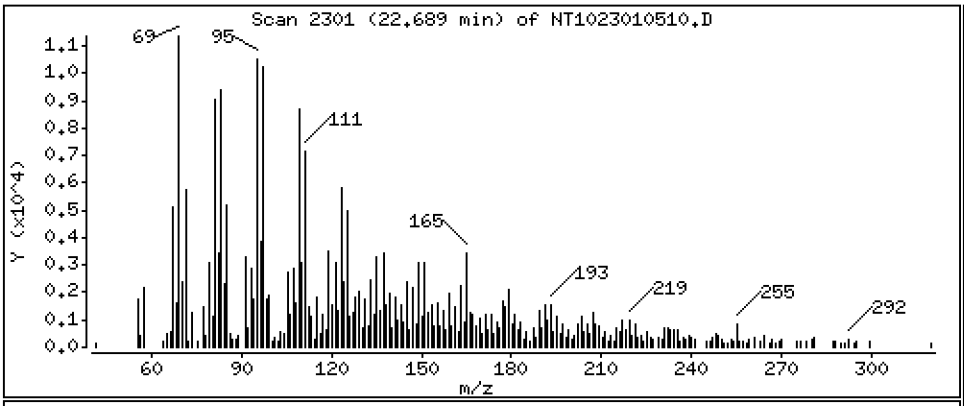
Operator: VTS

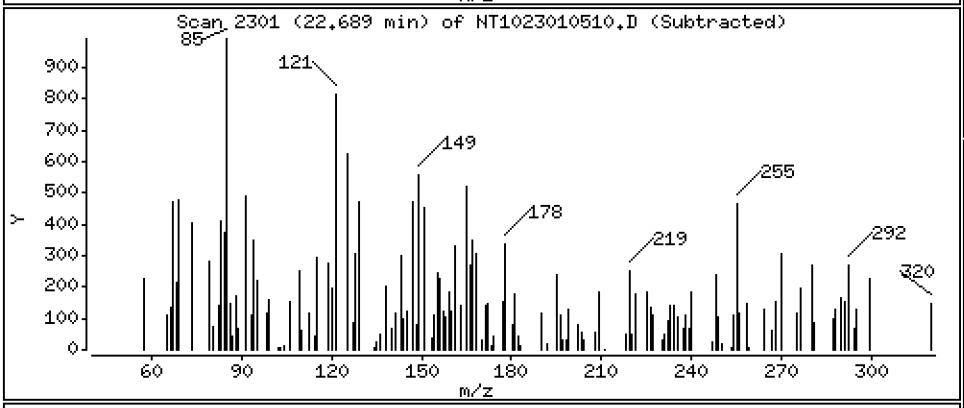
Column phase: ZB-5msi

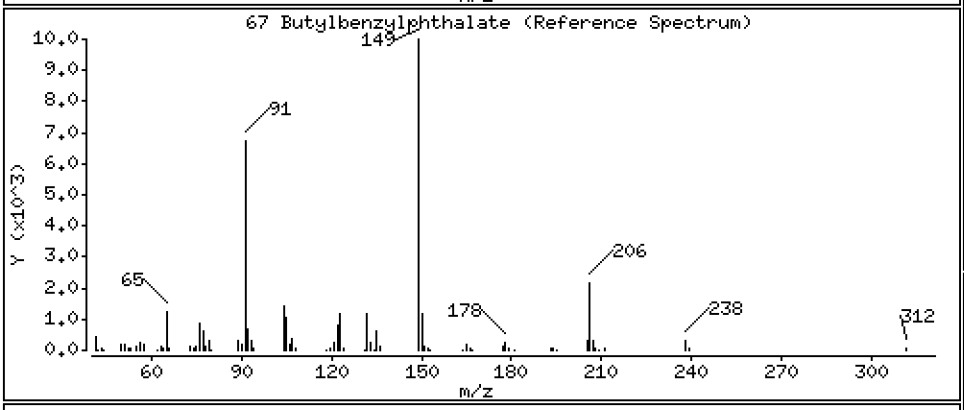
Column diameter: 0.25

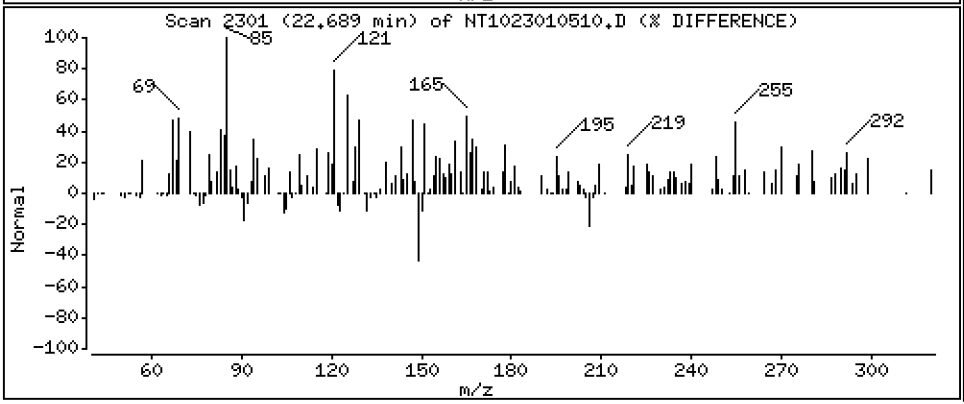
67 Butylbenzylphthalate

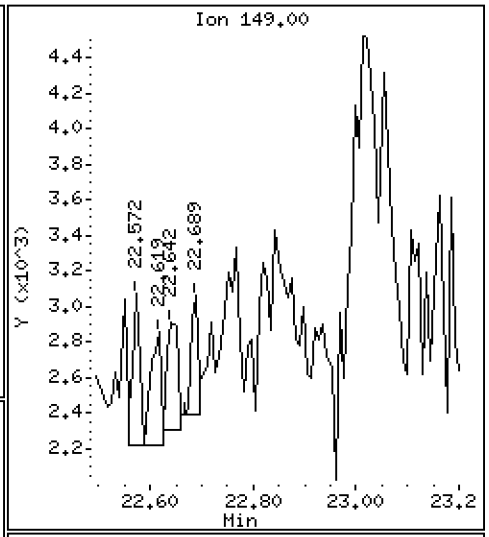
Concentration: 0.03222 ug/mL

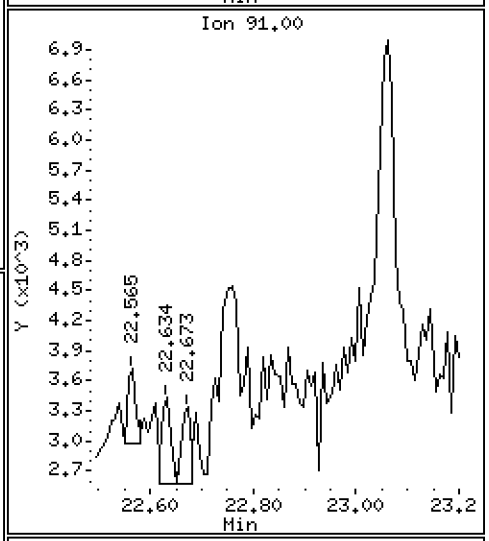


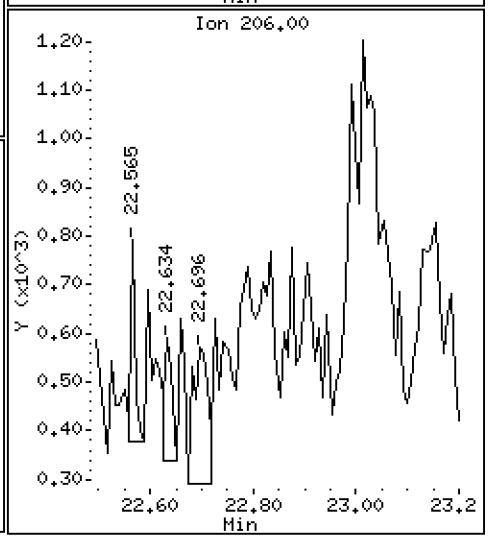












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

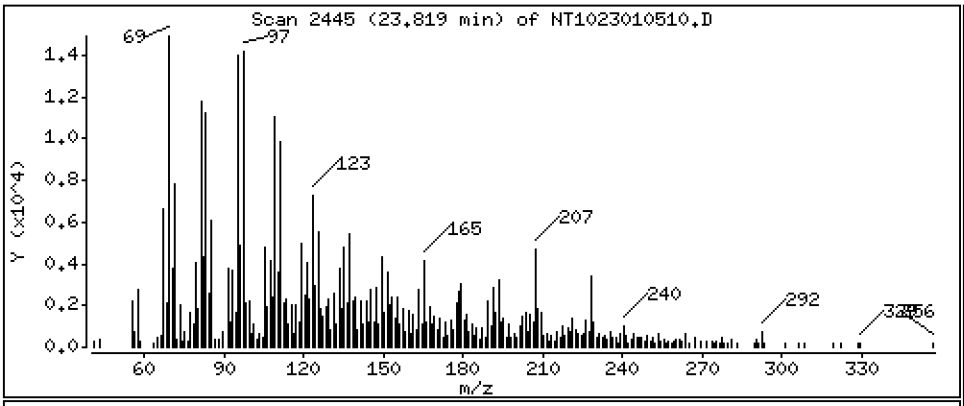
Operator: VTS

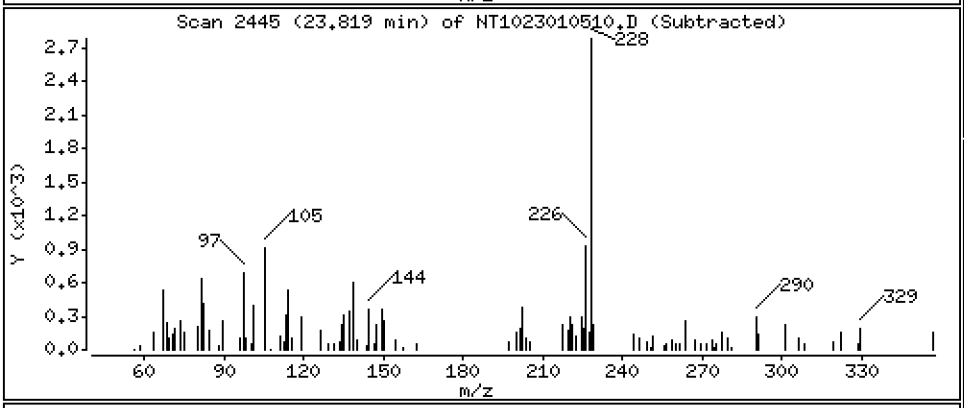
Column phase: ZB-5msi

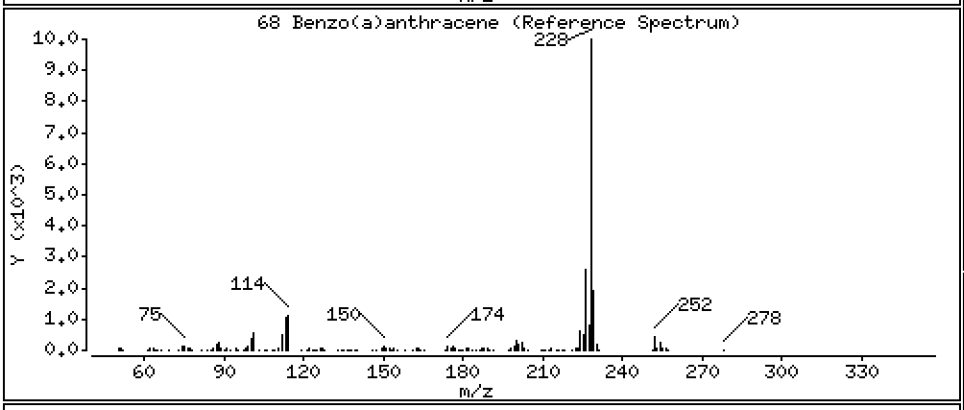
Column diameter: 0.25

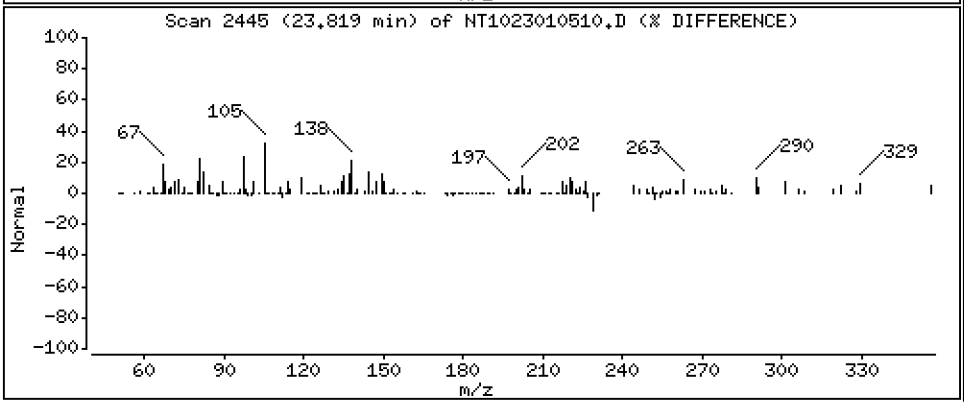
68 Benzo(a)anthracene

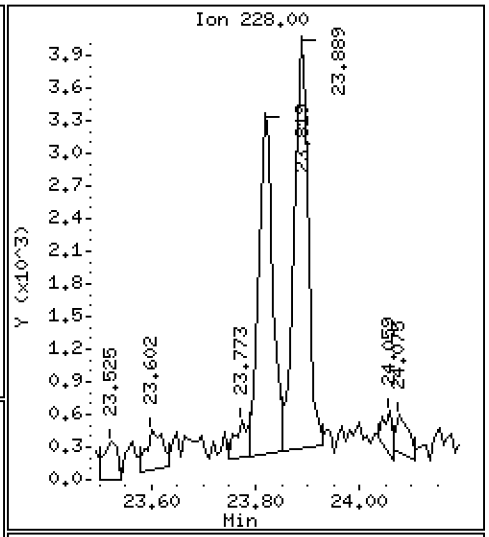
Concentration: 0.2171 ug/mL

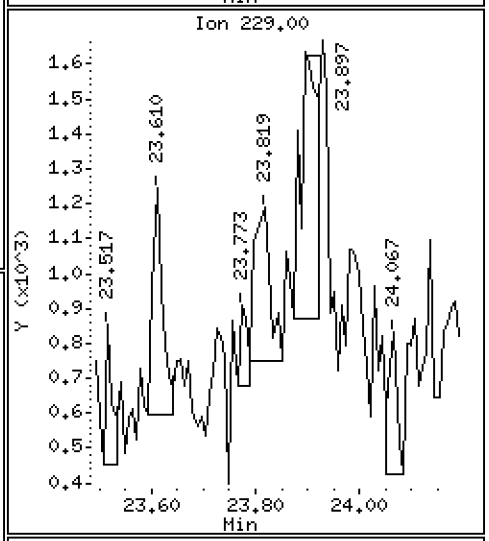


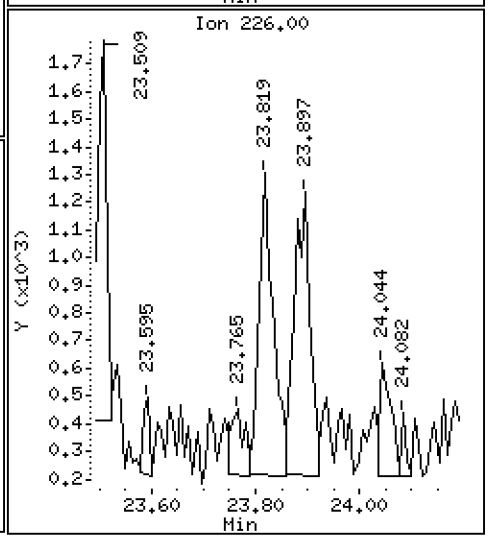












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

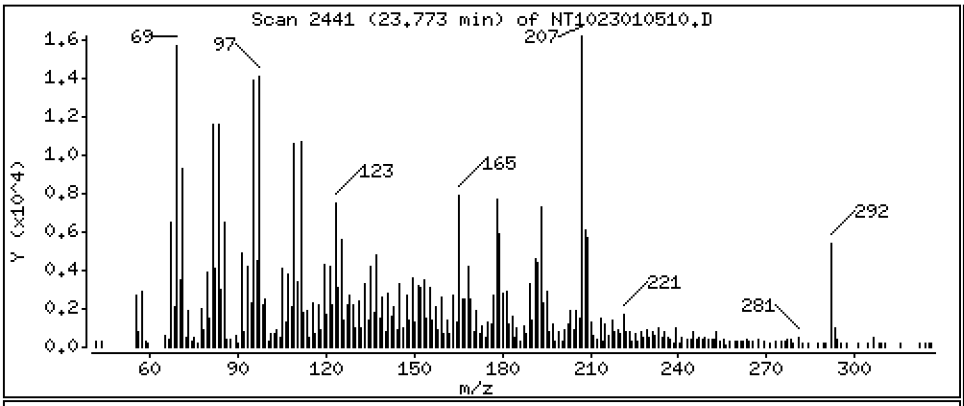
Operator: VTS

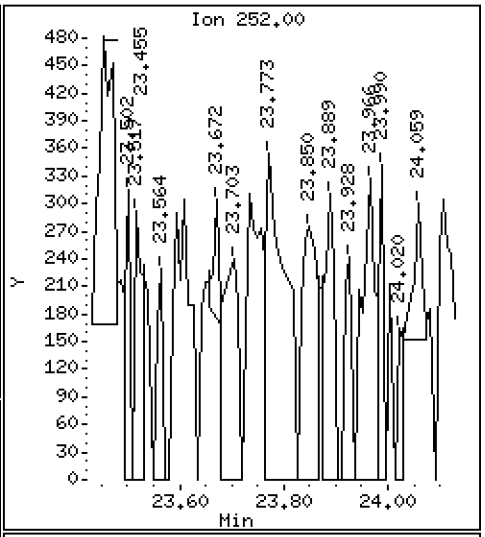
Column phase: ZB-5msi

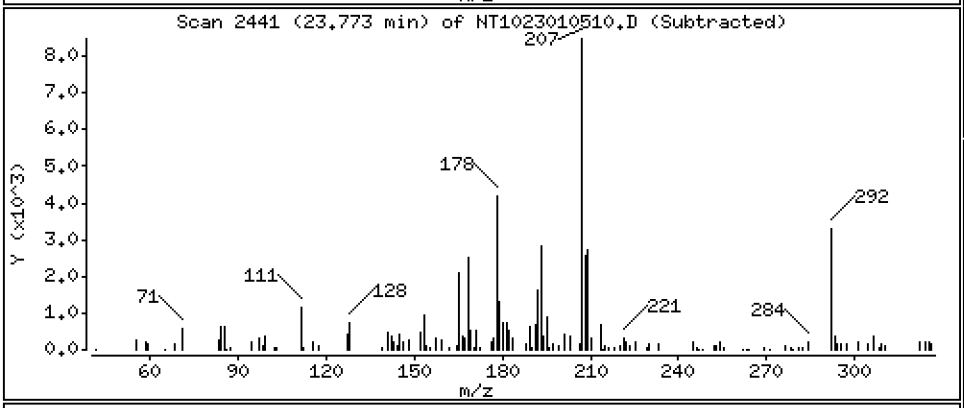
Column diameter: 0.25

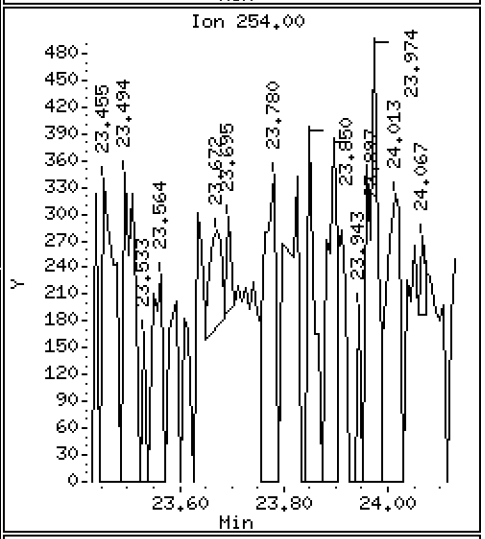
70 3,3'-Dichlorobenzidine

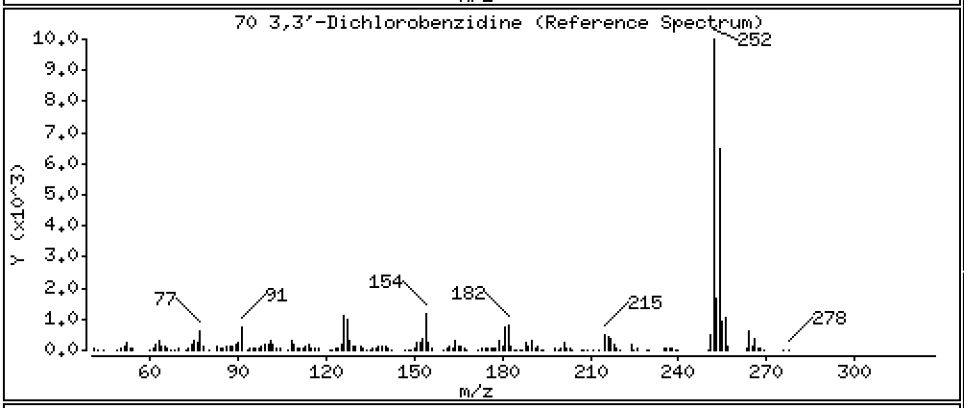
Concentration: 0.09791 ug/mL

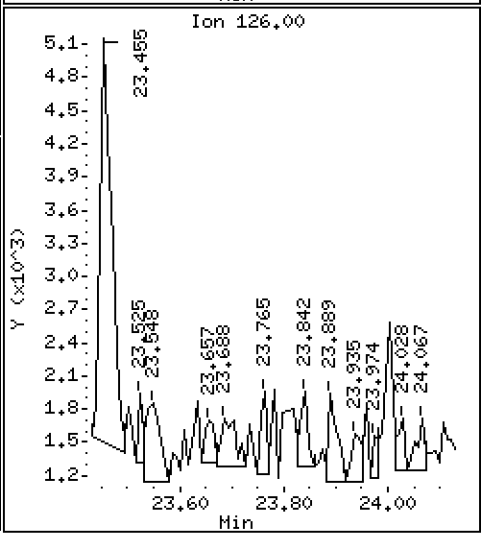


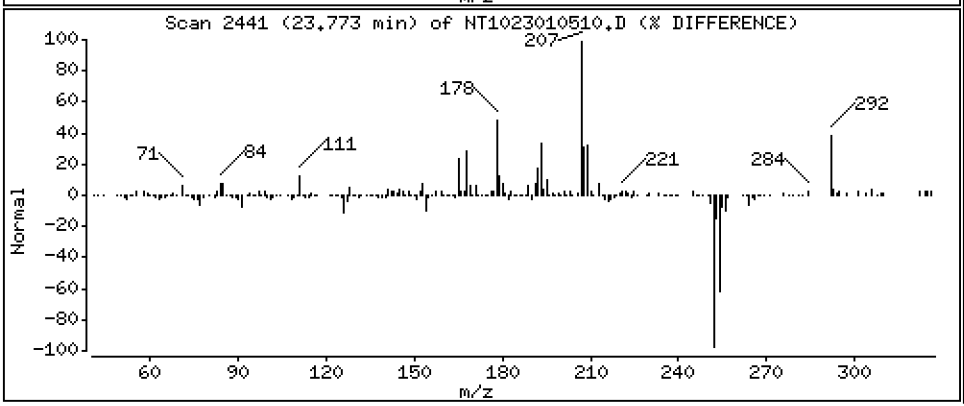












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

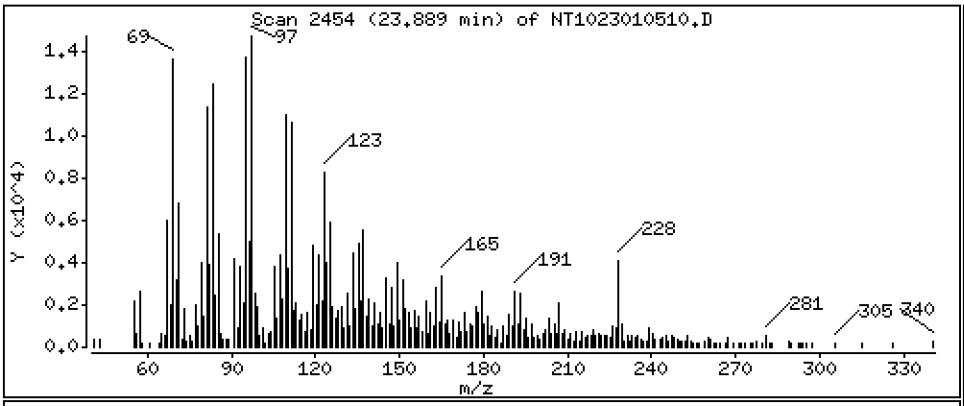
Operator: VTS

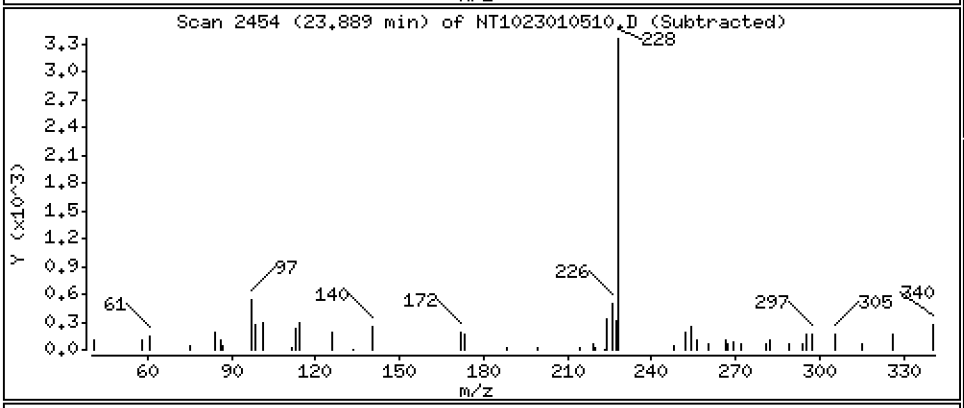
Column phase: ZB-5msi

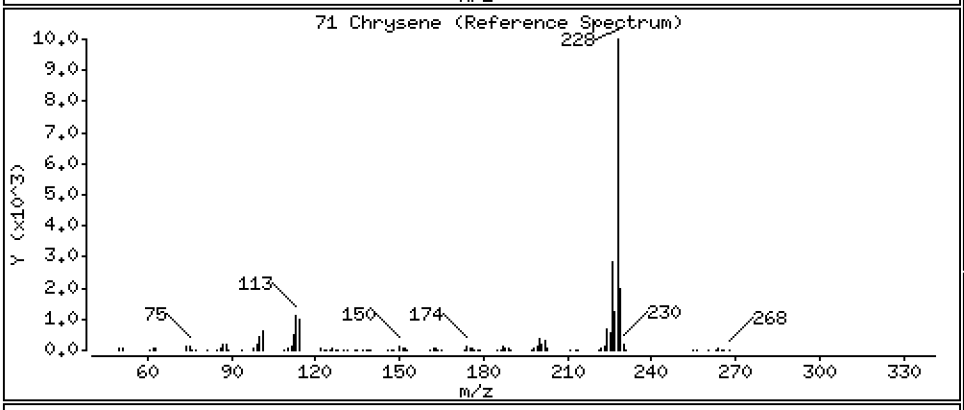
Column diameter: 0.25

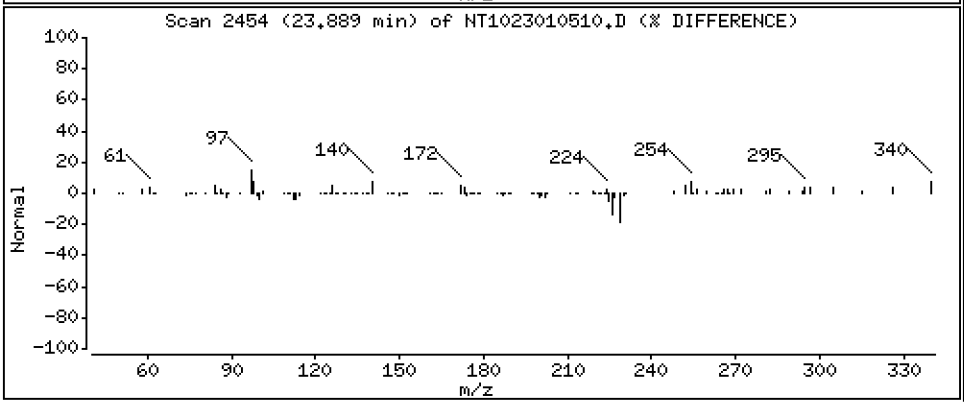
71 Chrysene

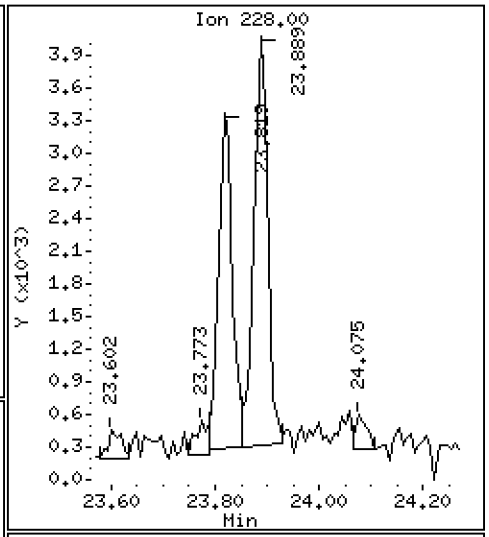
Concentration: 0.3000 ug/mL

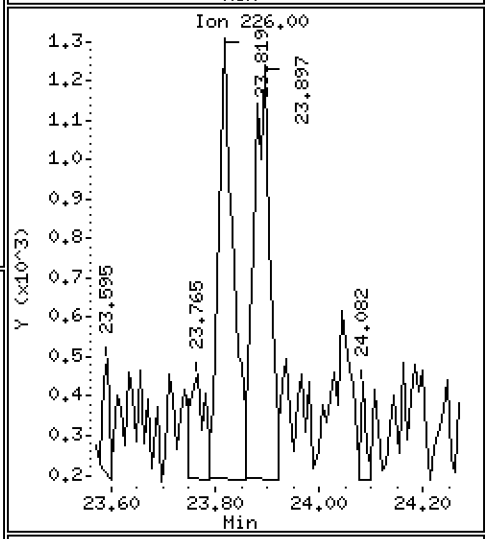


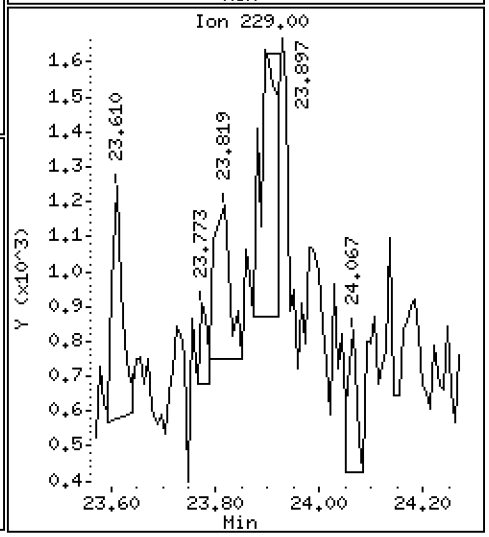












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010510.D

Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

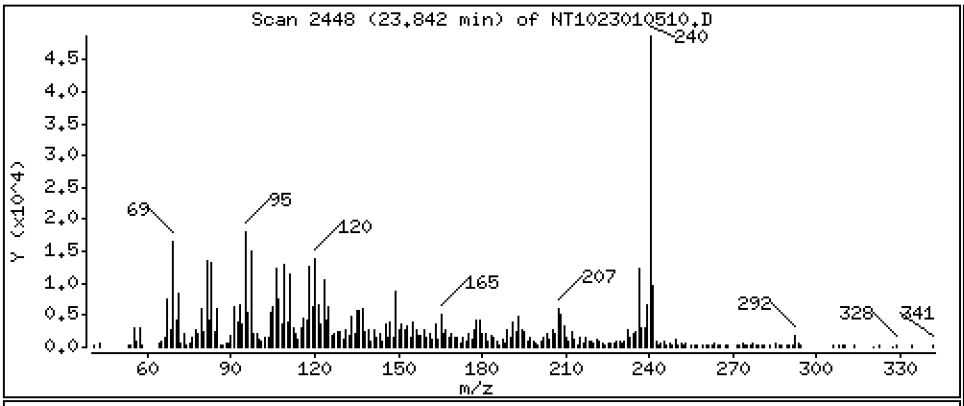
Operator: VTS

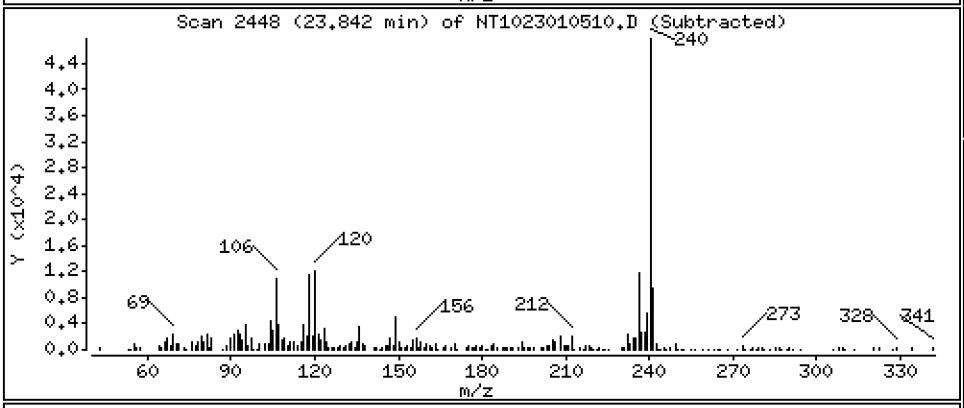
Column phase: ZB-5msi

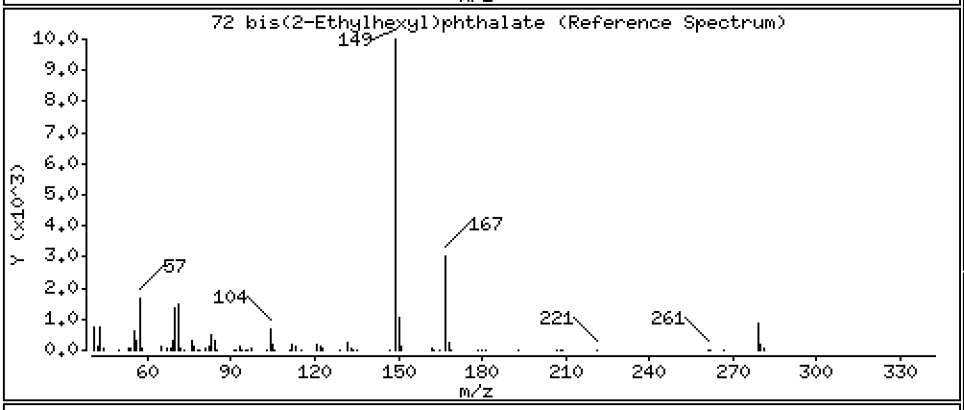
Column diameter: 0.25

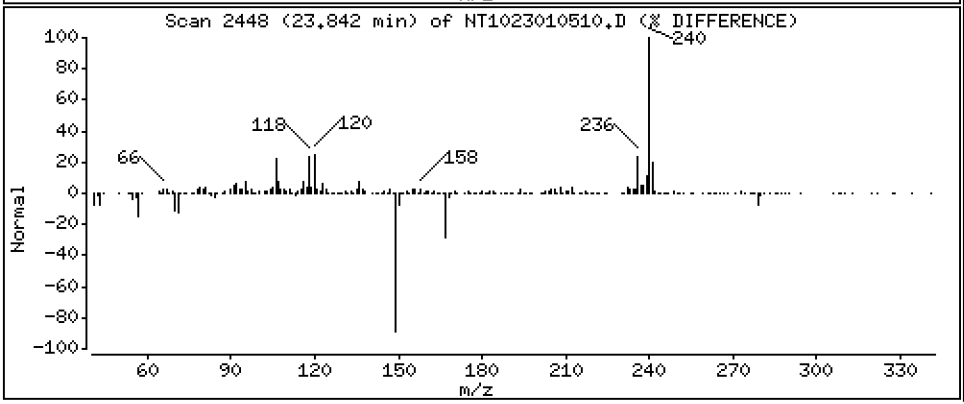
72 bis(2-Ethylhexyl)phthalate

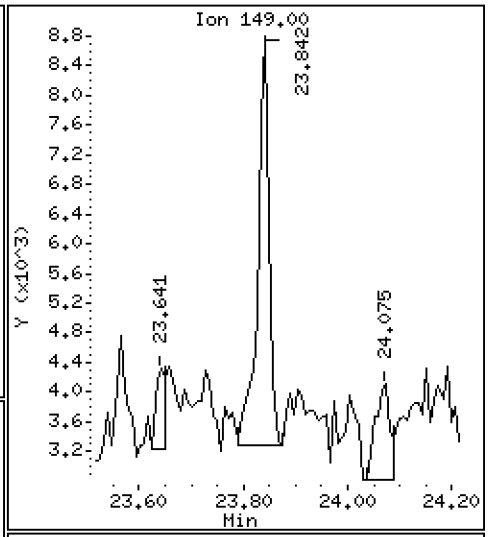
Concentration: 0.2343 ug/mL

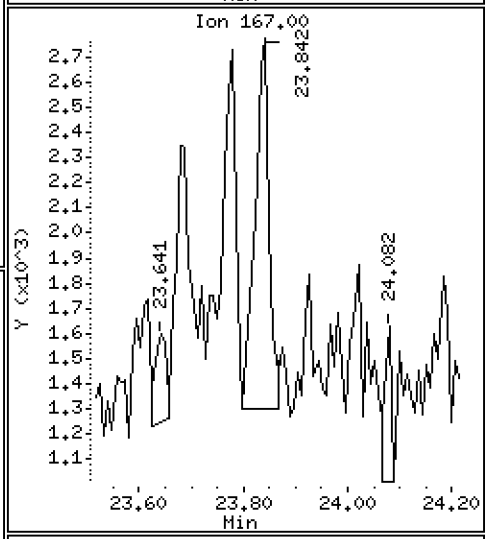


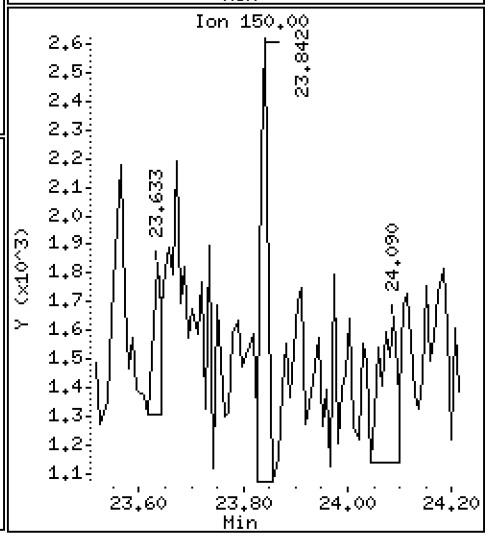












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

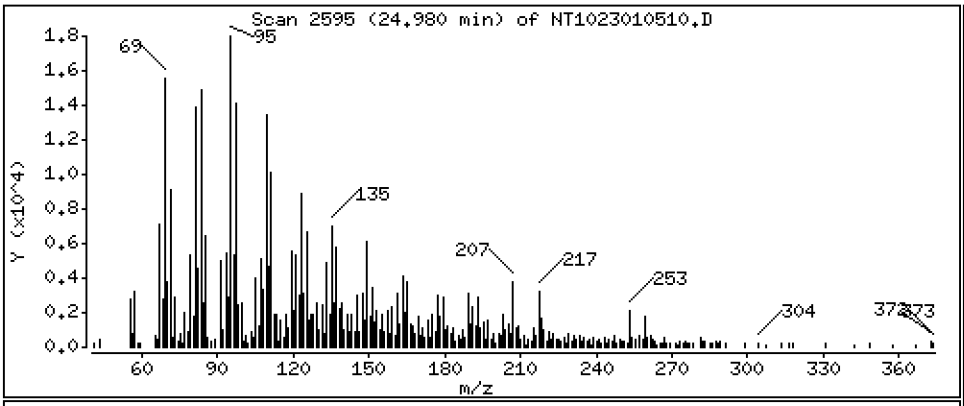
Operator: VTS

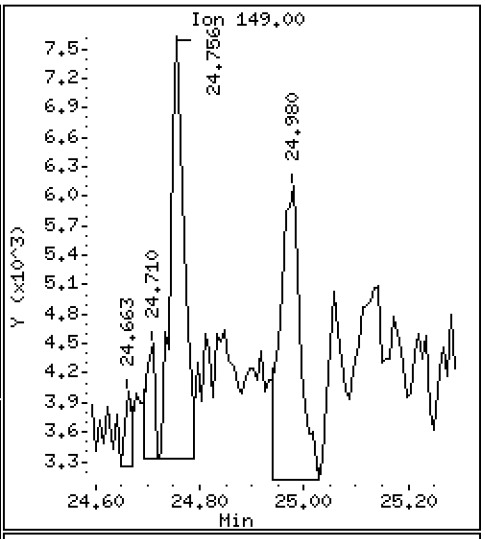
Column phase: ZB-5msi

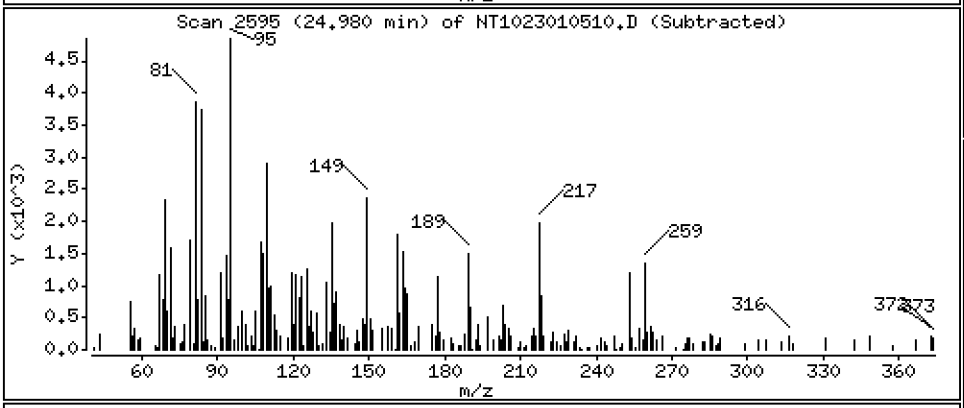
Column diameter: 0.25

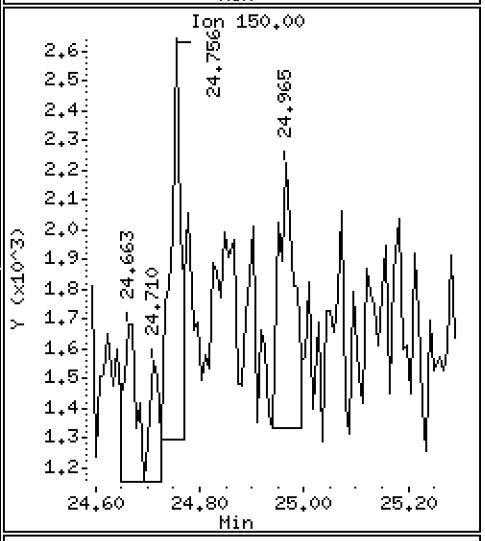
73 Di-n-octylphthalate

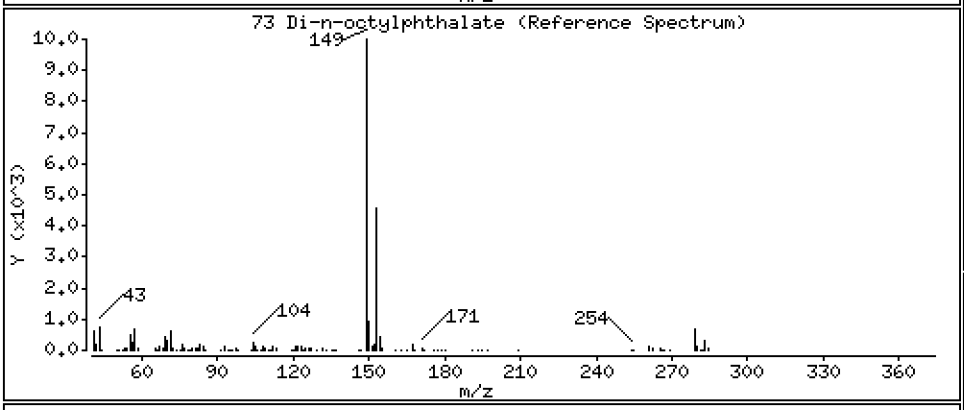
Concentration: 0.1332 ug/mL

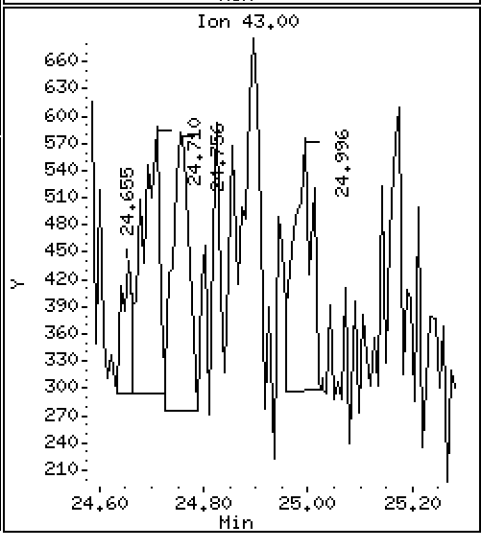


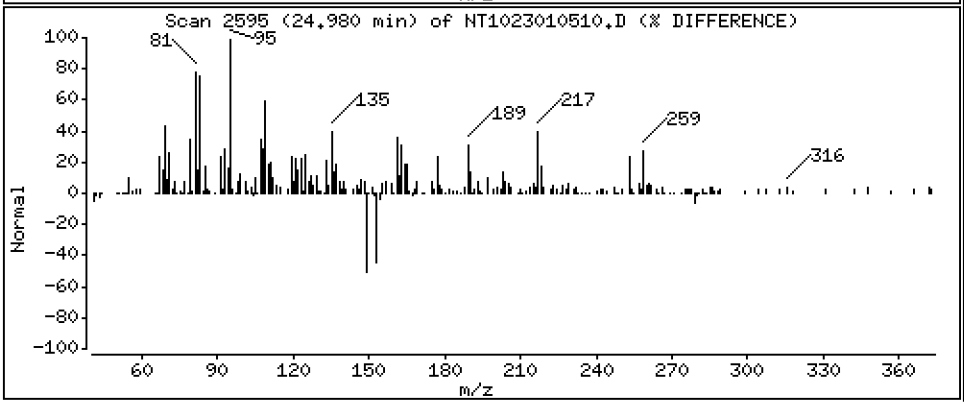












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

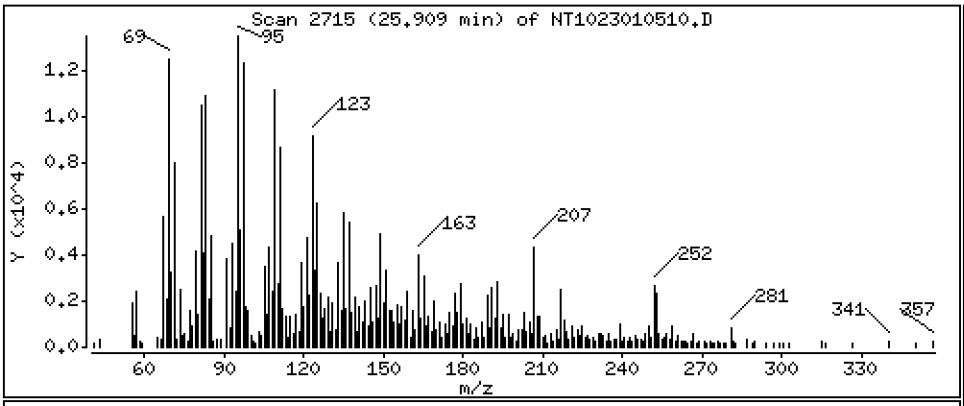
Operator: VTS

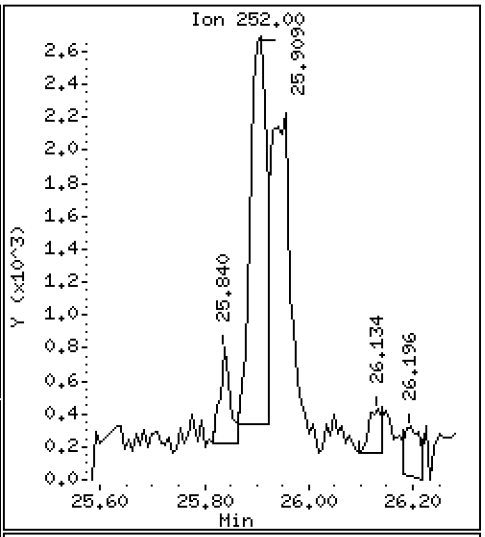
Column phase: ZB-5msi

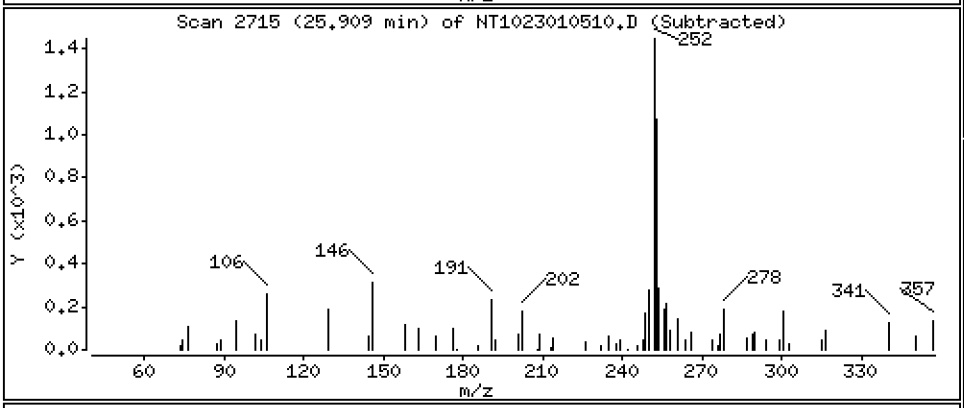
Column diameter: 0.25

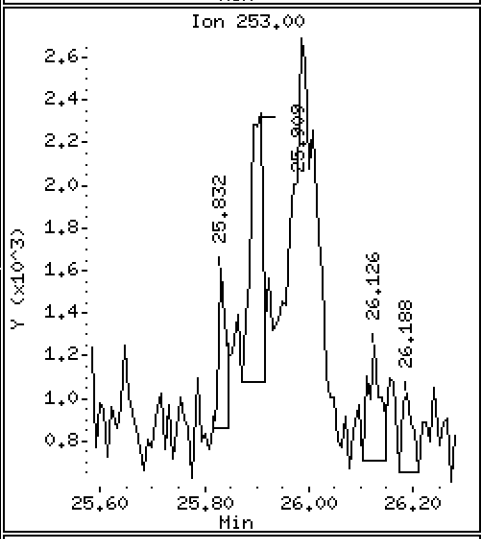
74 Benzo(b)fluoranthene

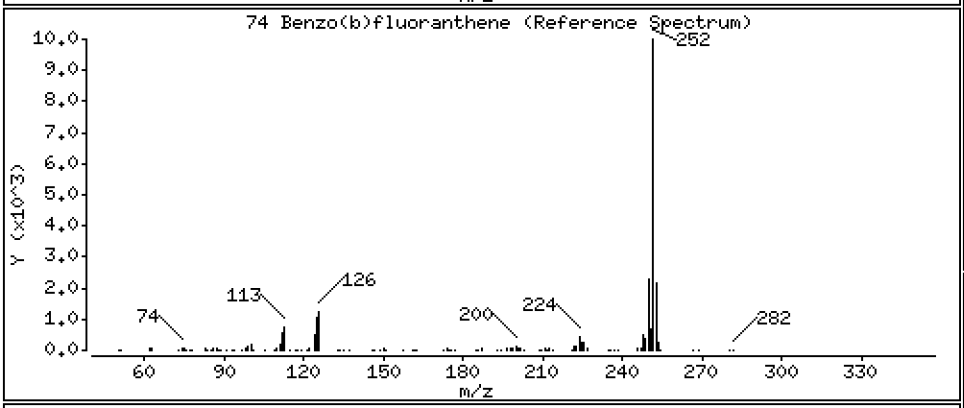
Concentration: 0.1799 ug/mL

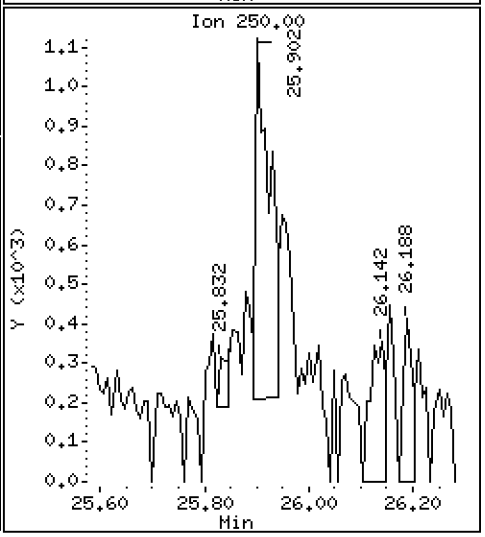


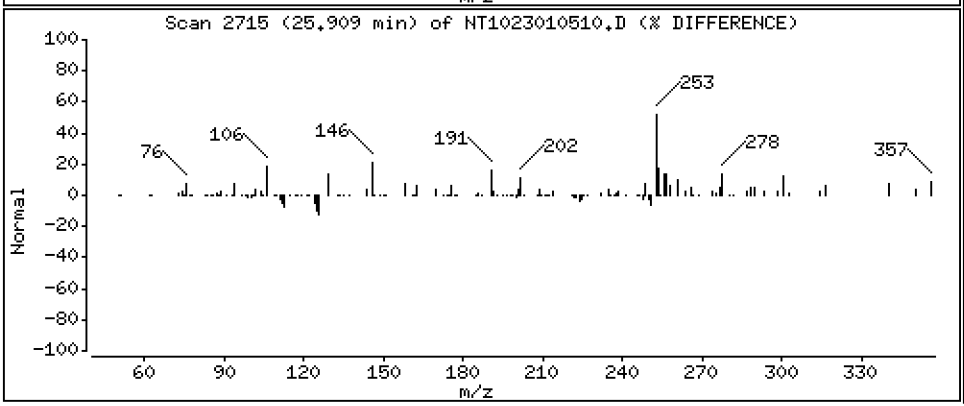












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

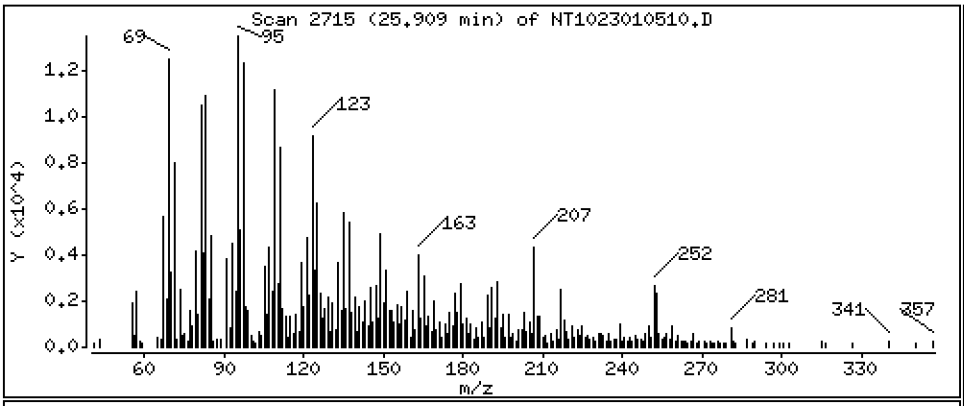
Operator: VTS

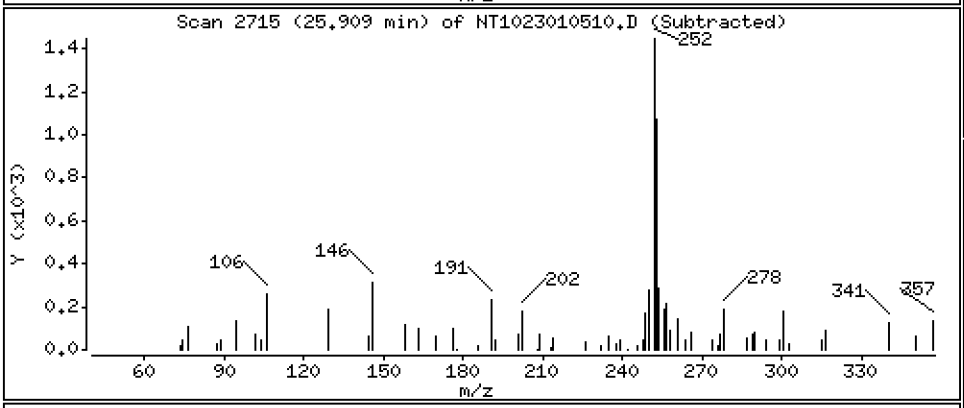
Column phase: ZB-5msi

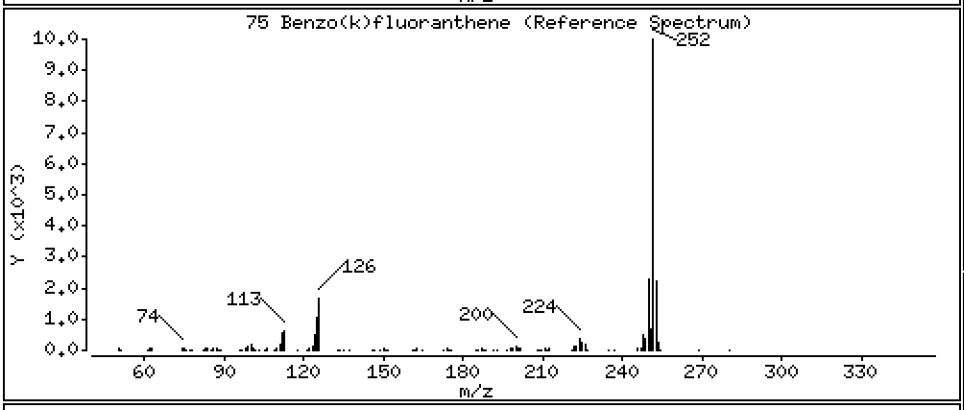
Column diameter: 0.25

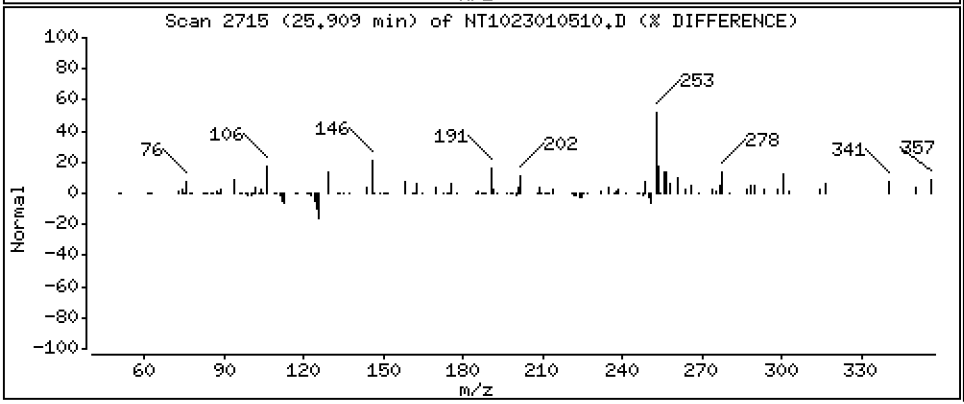
75 Benzo(k)fluoranthene

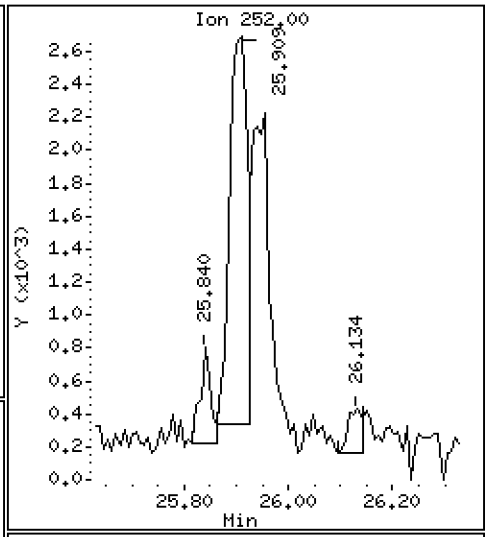
Concentration: 0.1846 ug/mL

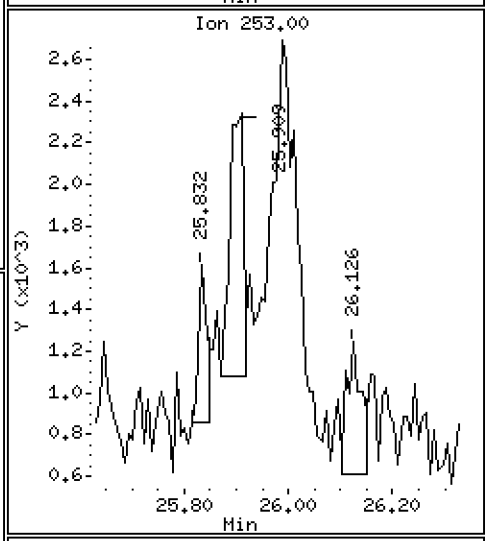


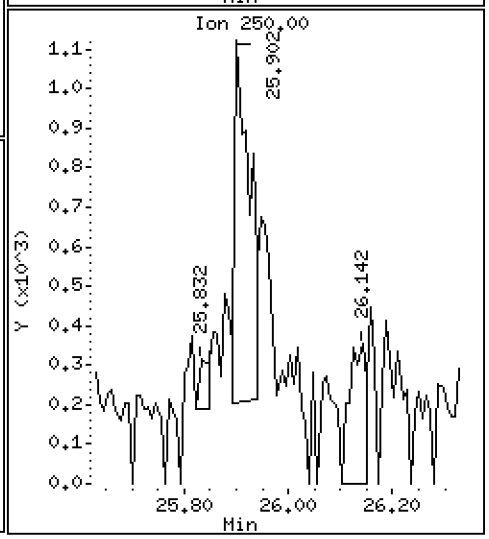












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

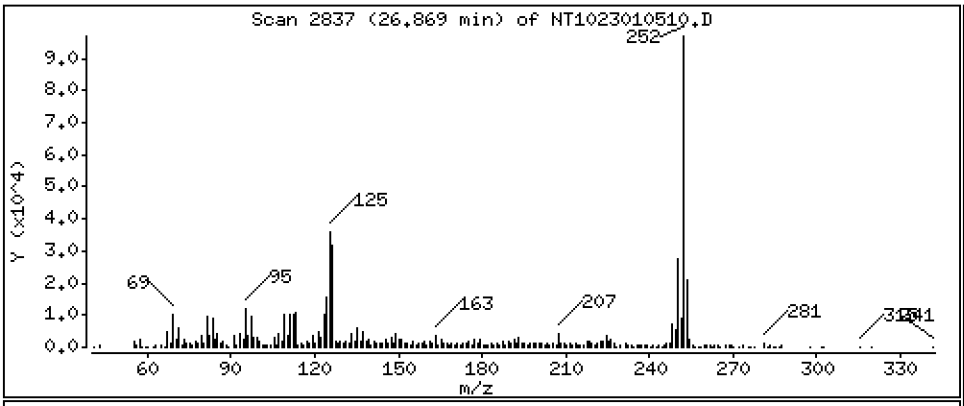
Operator: VTS

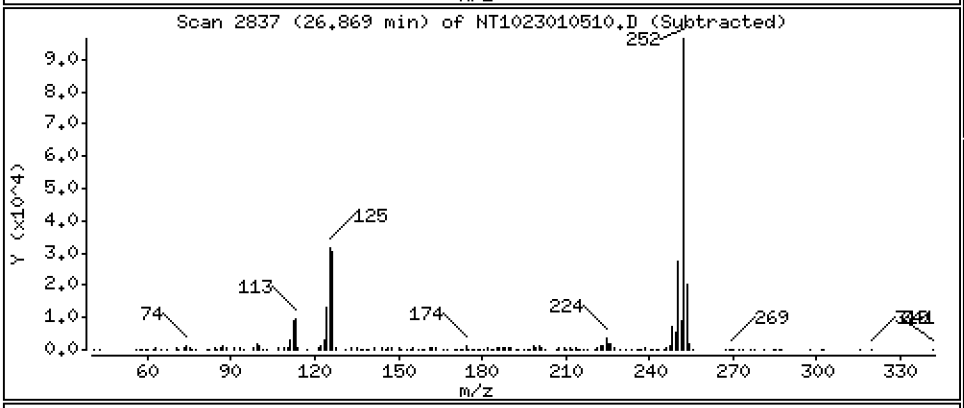
Column phase: ZB-5msi

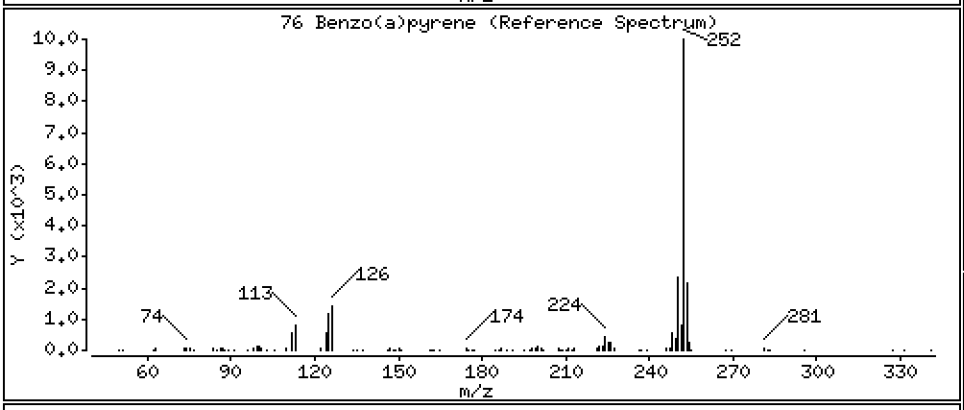
Column diameter: 0.25

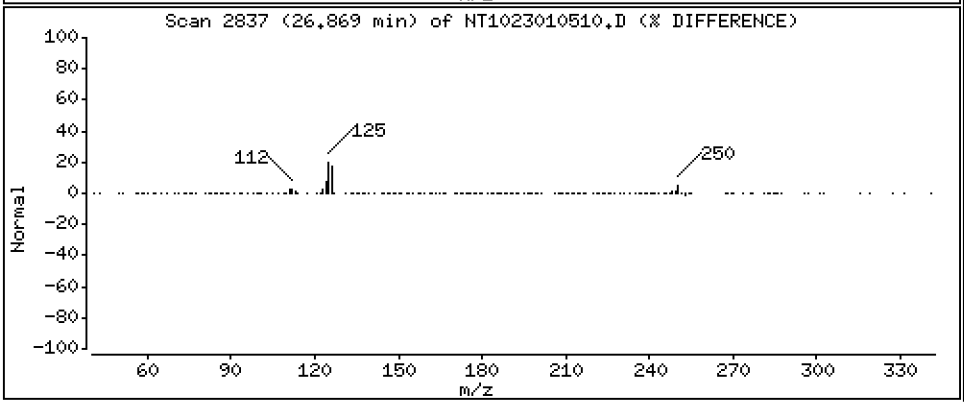
76 Benzo(a)pyrene

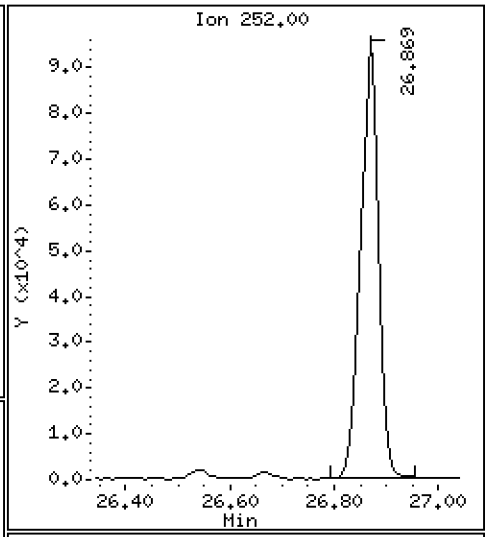
Concentration: 7.802 ug/mL

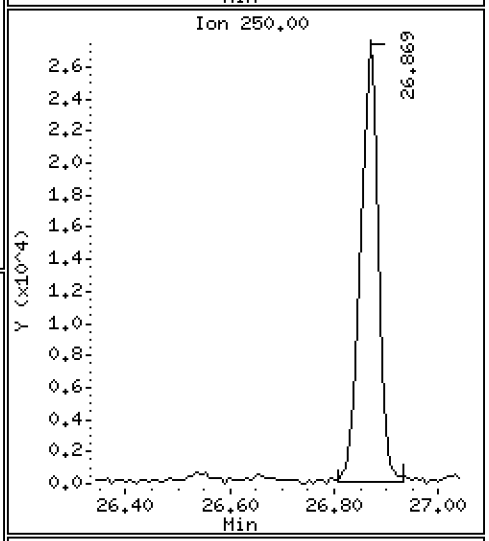


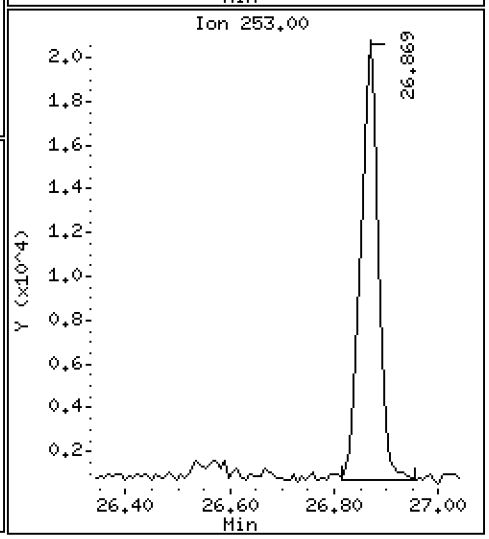












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

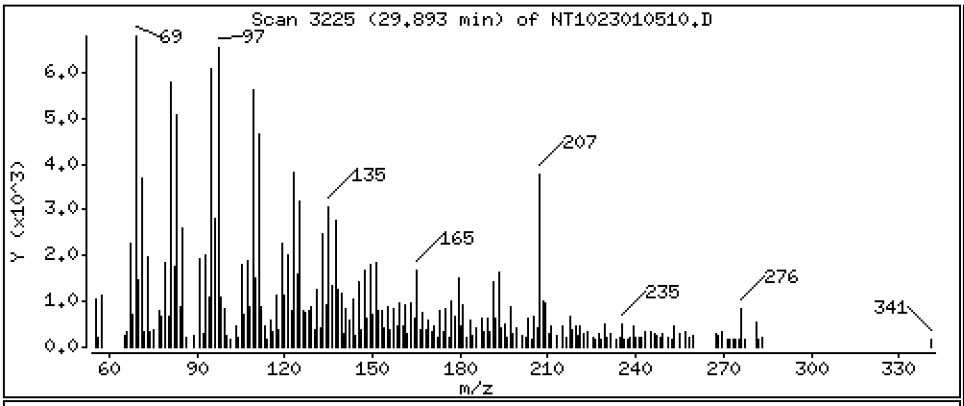
Operator: VTS

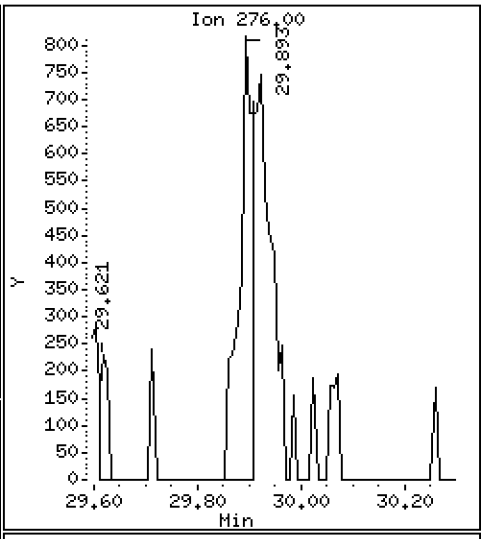
Column phase: ZB-5msi

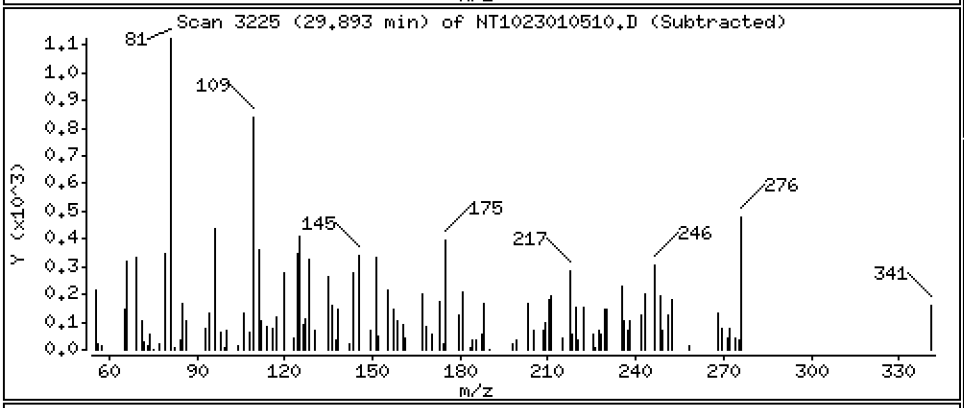
Column diameter: 0.25

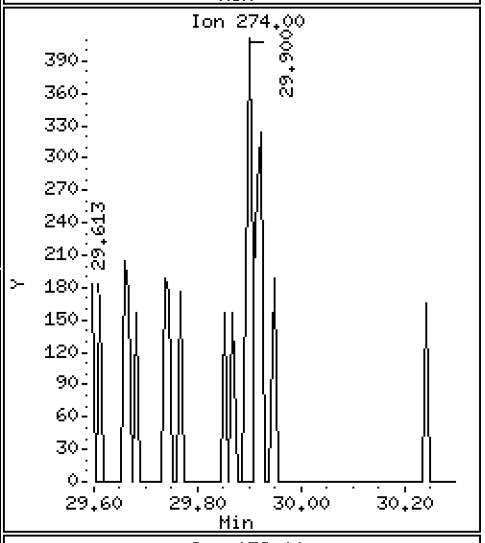
78 Indeno(1,2,3-cd)pyrene

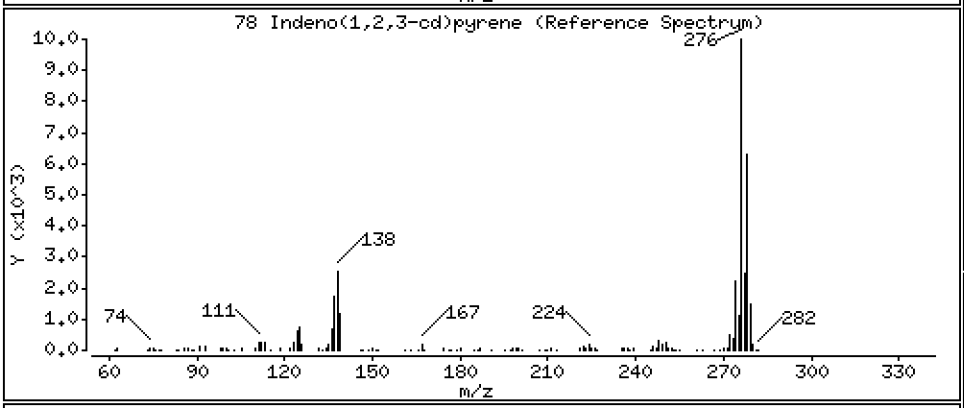
Concentration: 0.06685 ug/mL

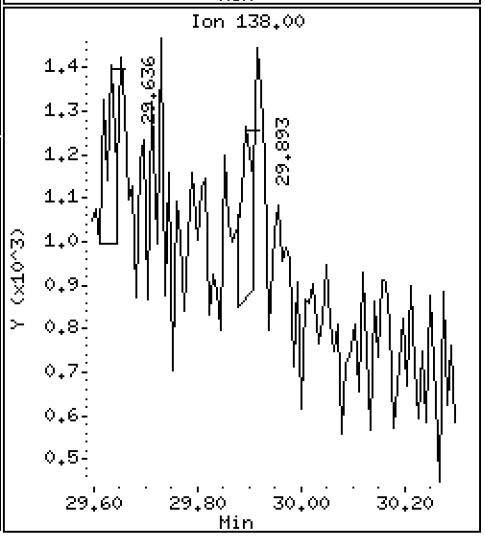


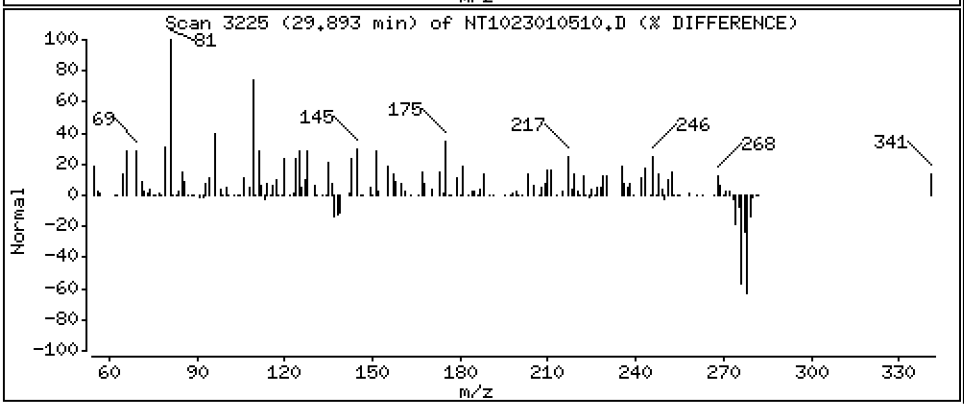












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

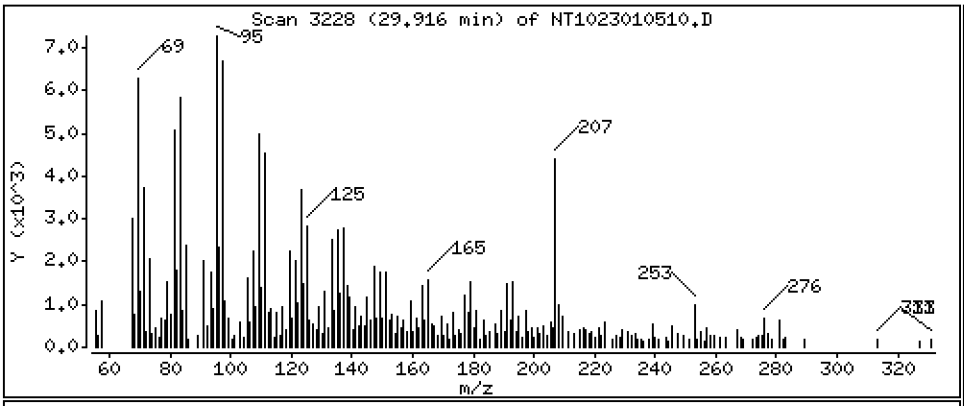
Operator: VTS

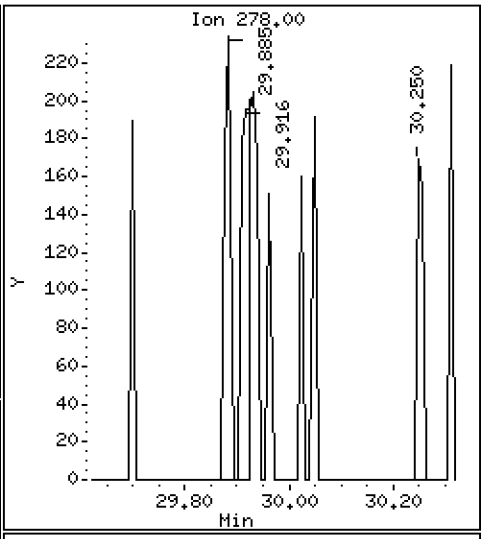
Column phase: ZB-5msi

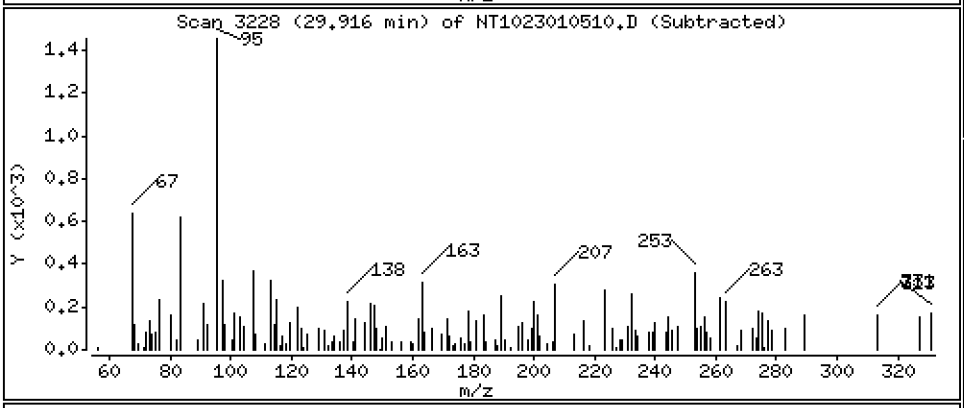
Column diameter: 0.25

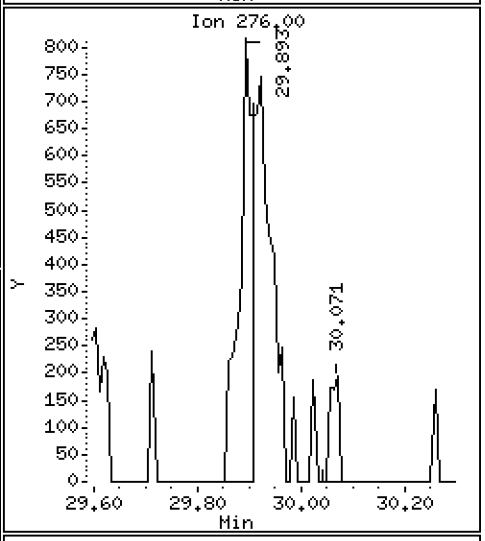
79 Dibenzo(a,h)anthracene

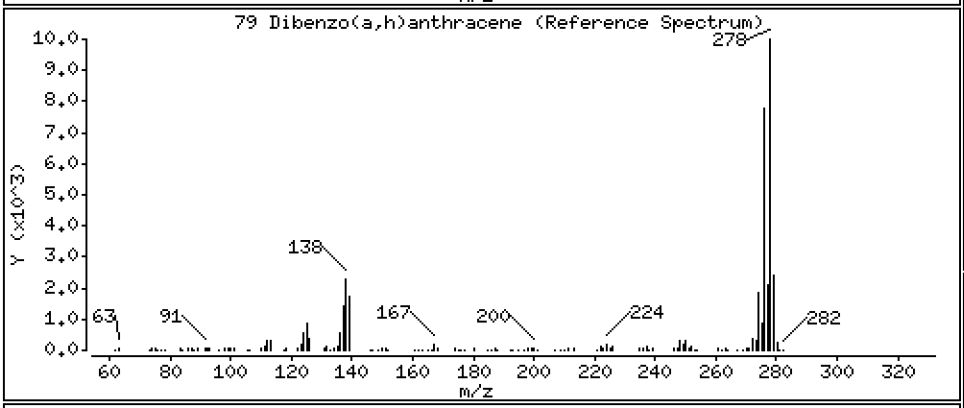
Concentration: 0.01467 ug/mL

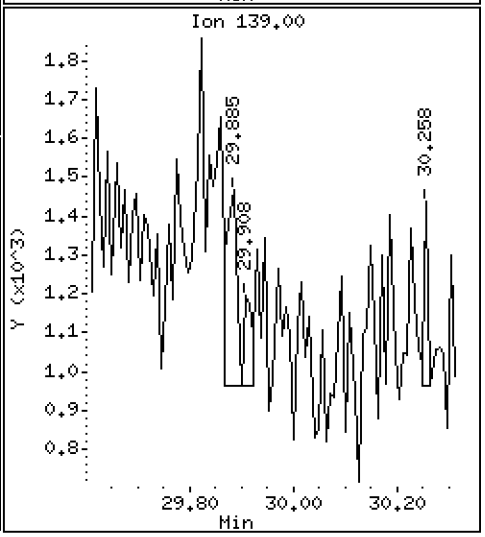


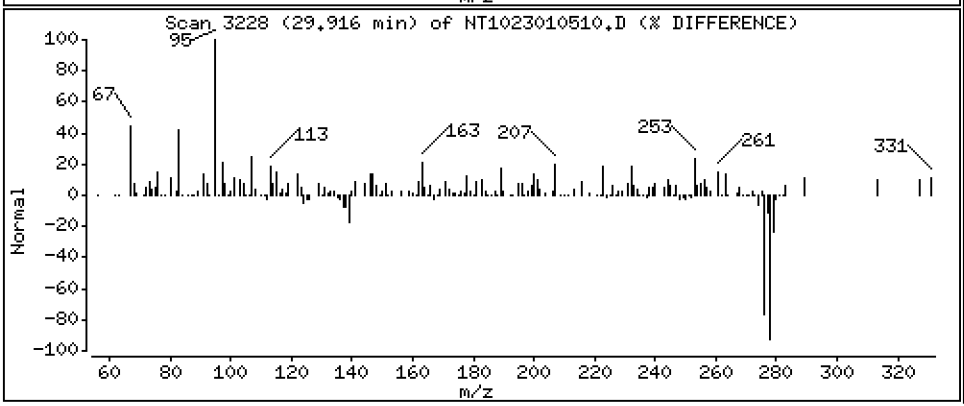












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

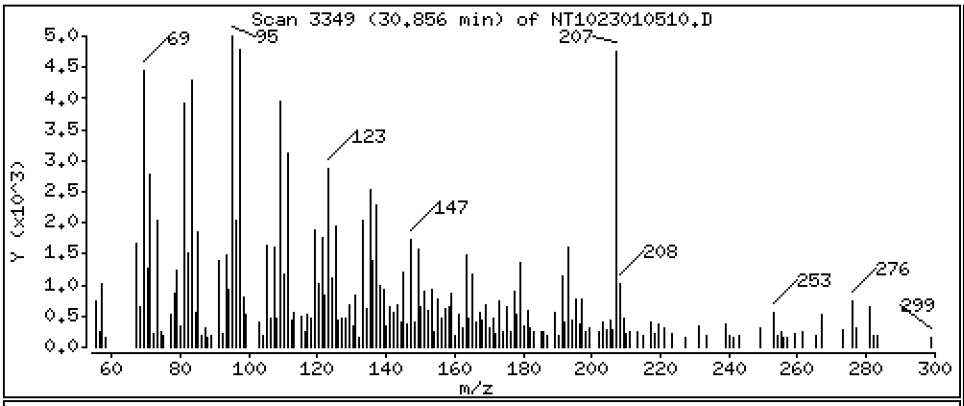
Operator: VTS

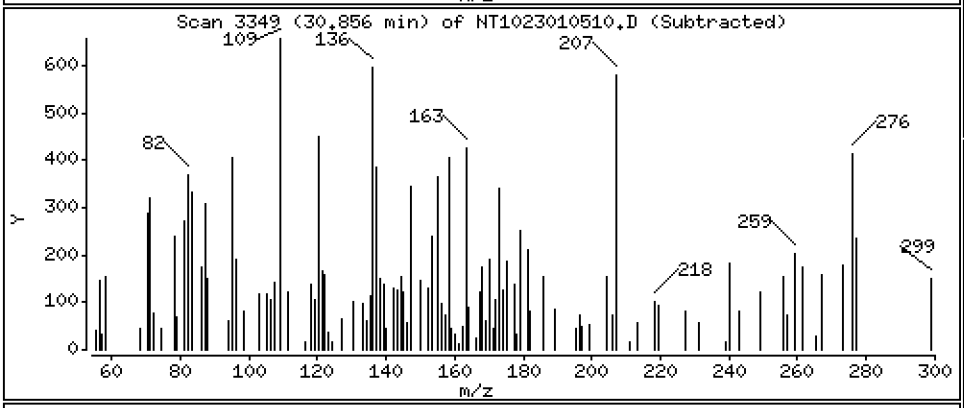
Column phase: ZB-5msi

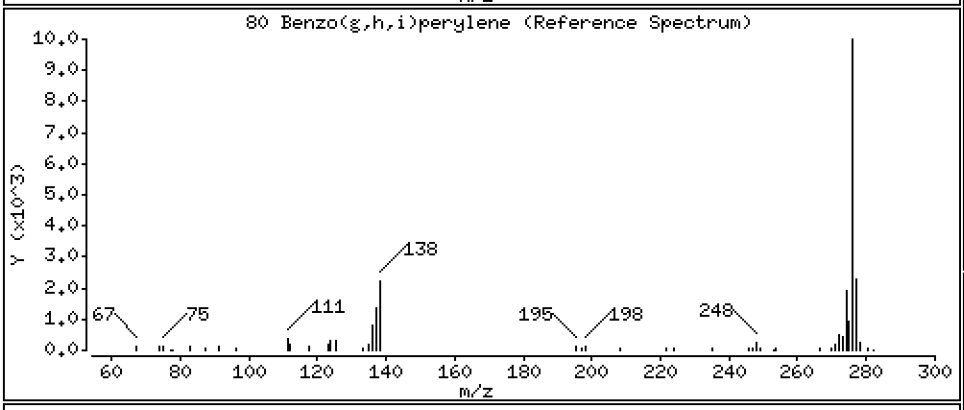
Column diameter: 0.25

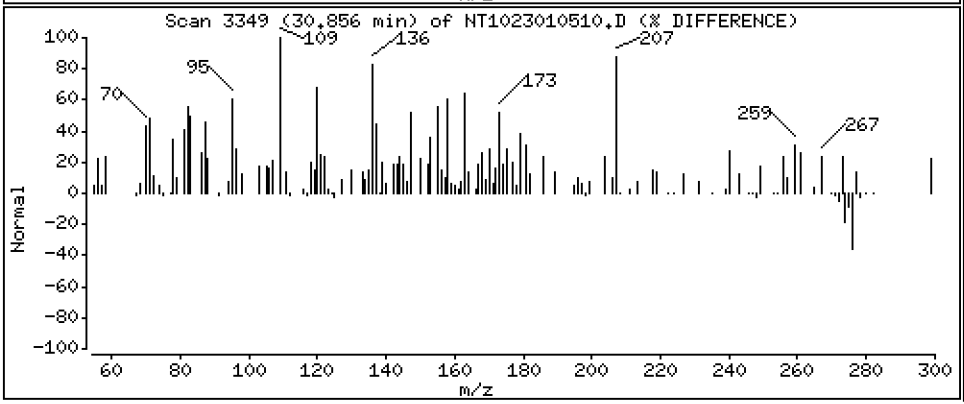
80 Benzo(g,h,i)perylene

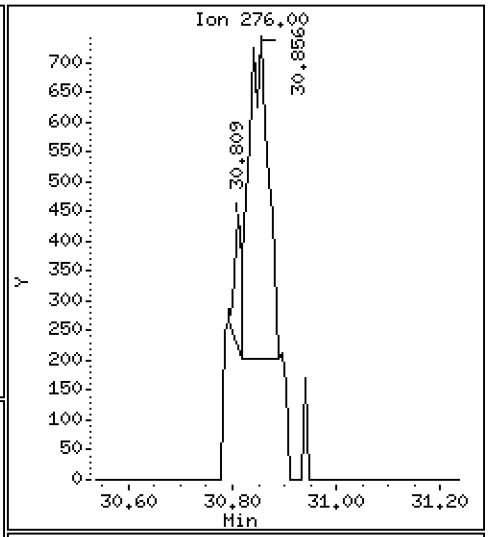
Concentration: 0.07949 ug/mL

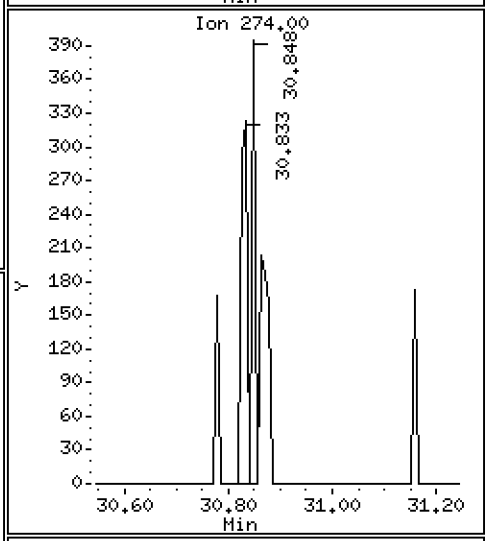


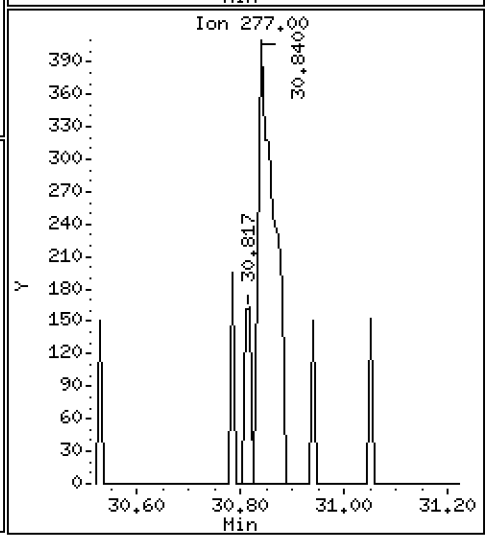












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

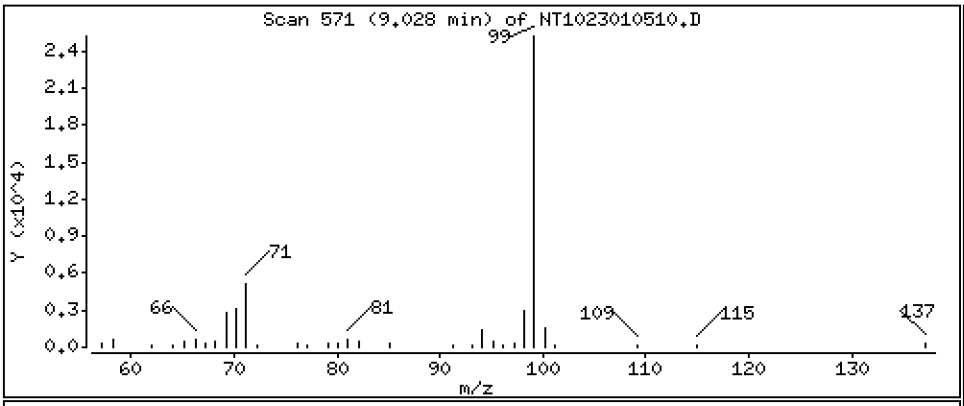
Operator: VTS

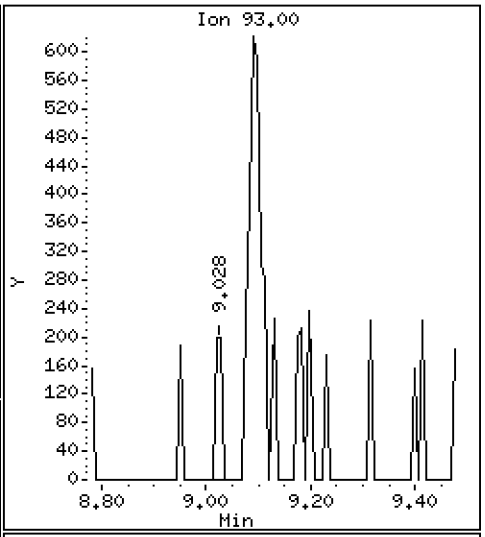
Column phase: ZB-5msi

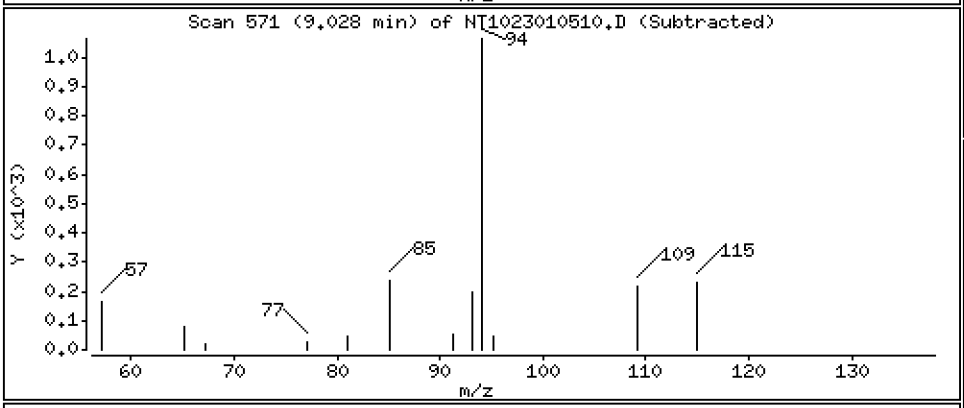
Column diameter: 0.25

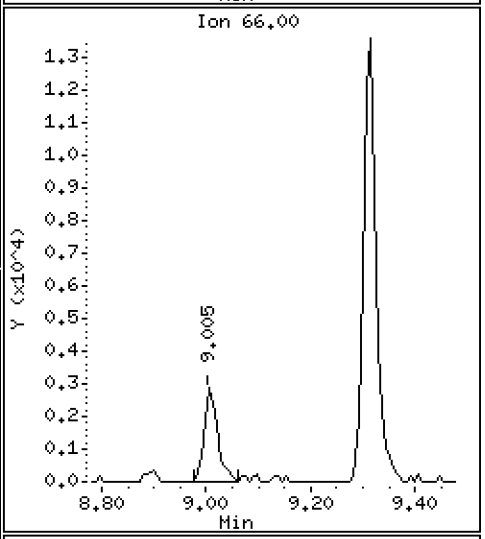
91 Aniline

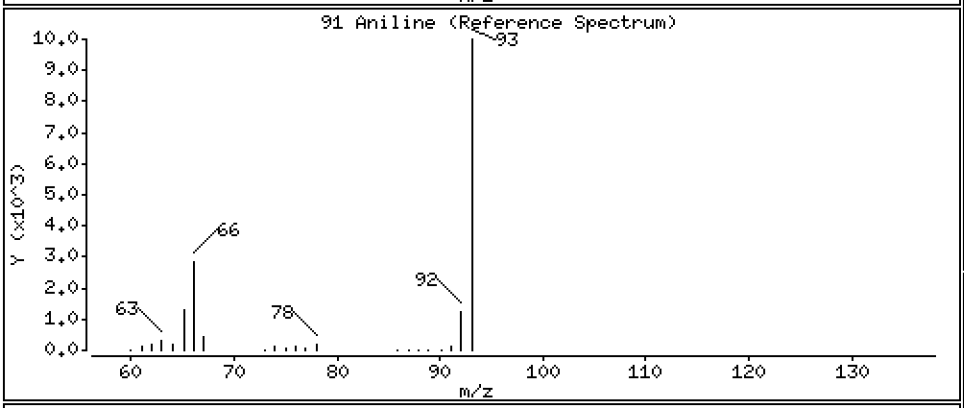
Concentration: 0.006849 ug/mL

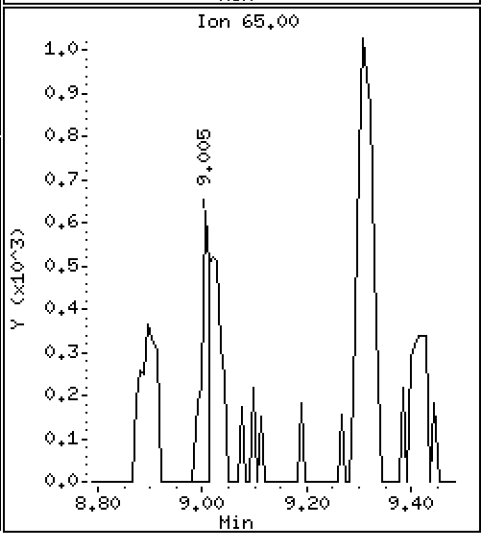


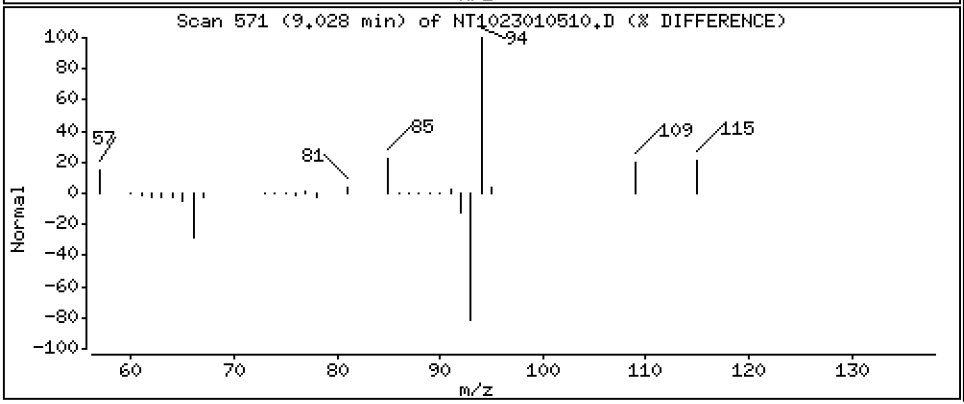












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

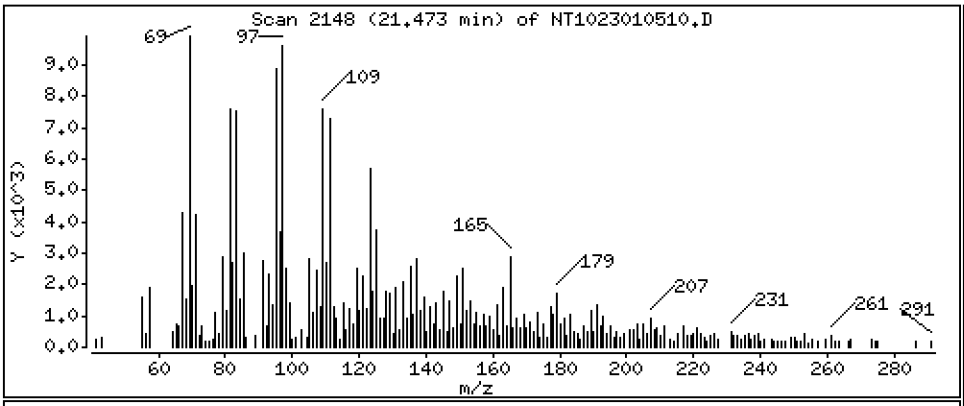
Operator: VTS

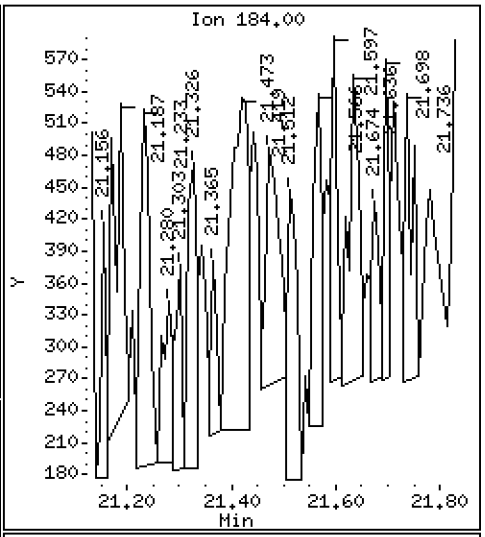
Column phase: ZB-5msi

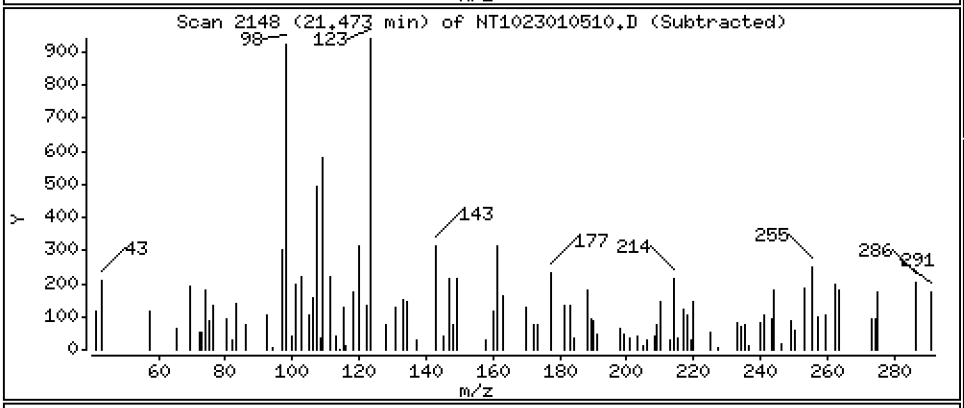
Column diameter: 0.25

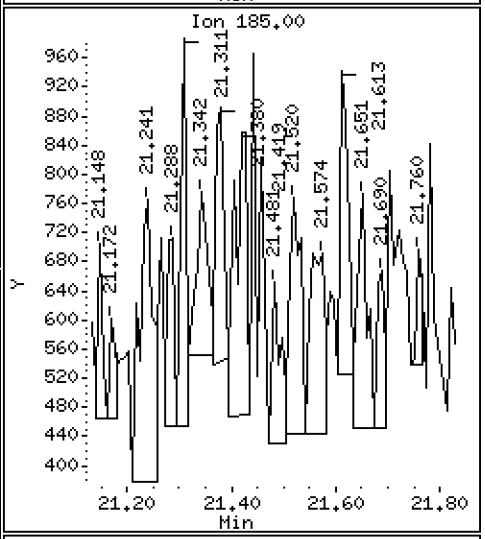
93 Benzidine

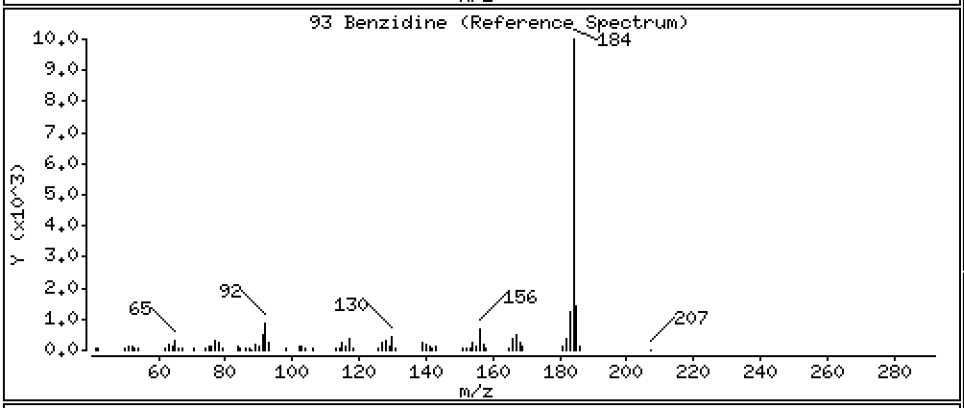
Concentration: 0.02170 ug/mL

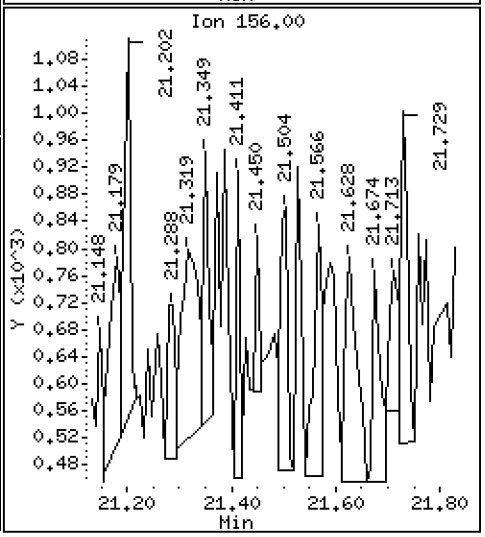


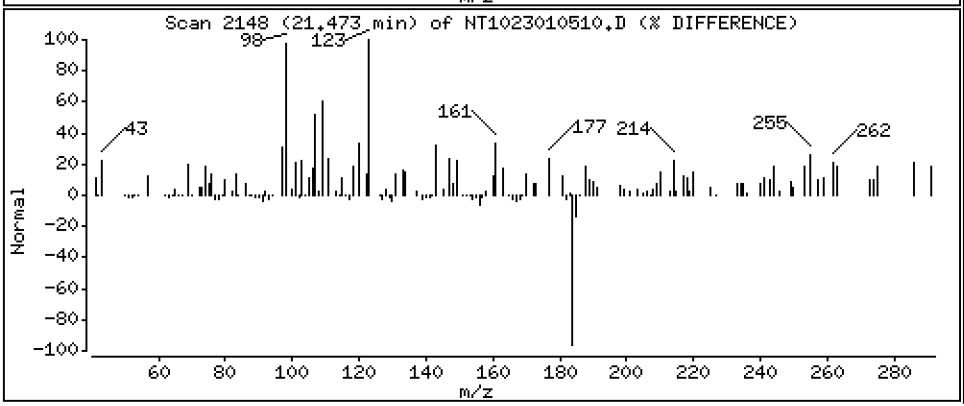












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

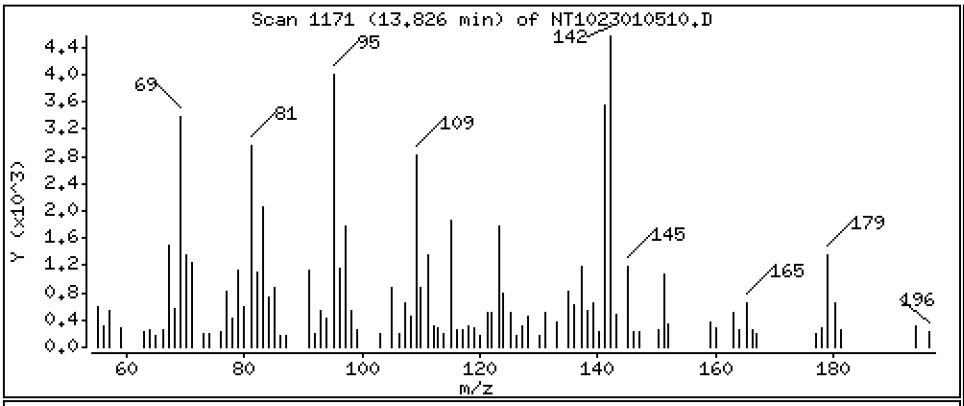
Operator: VTS

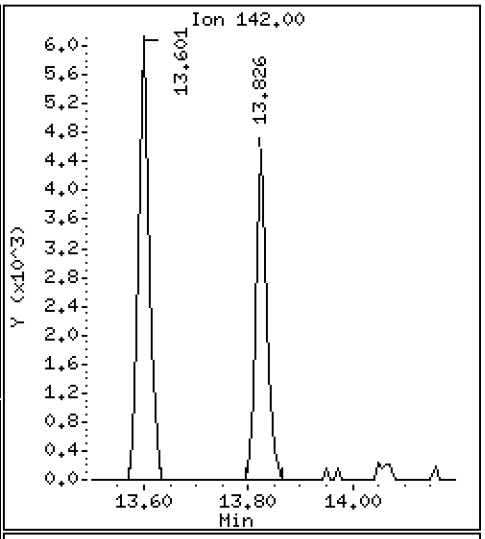
Column phase: ZB-5msi

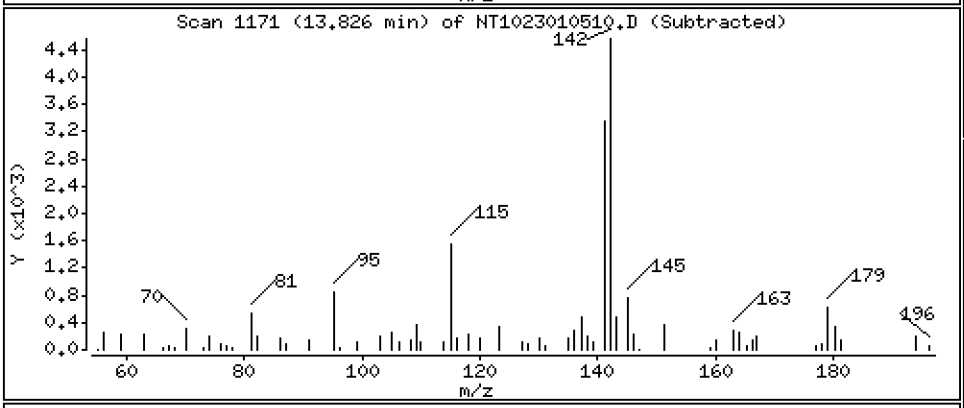
Column diameter: 0.25

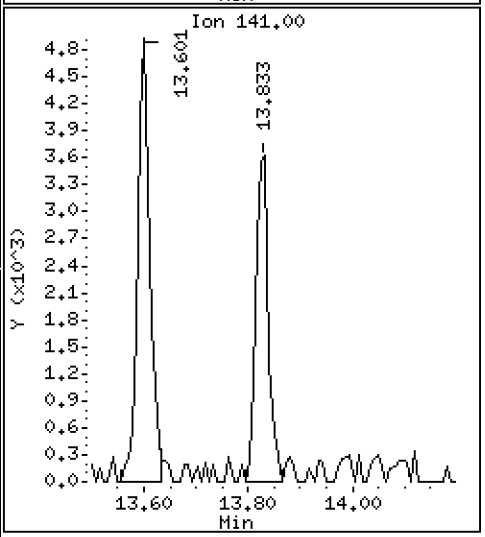
105 1-methylnaphthalene

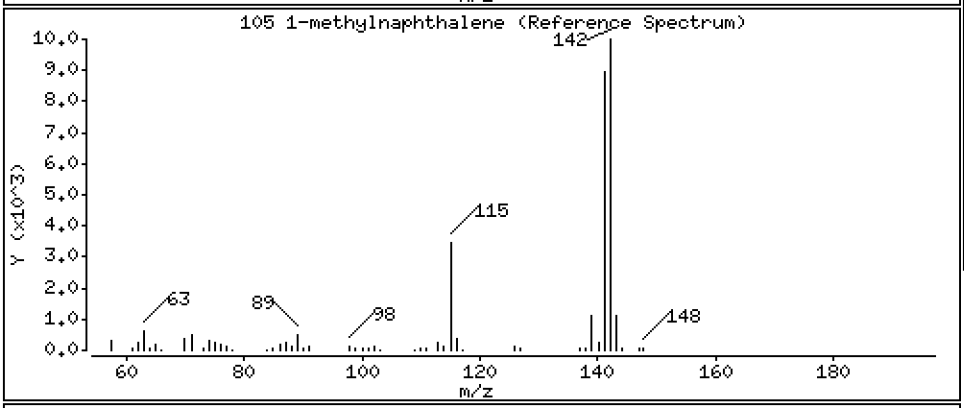
Concentration: 0.1304 ug/mL

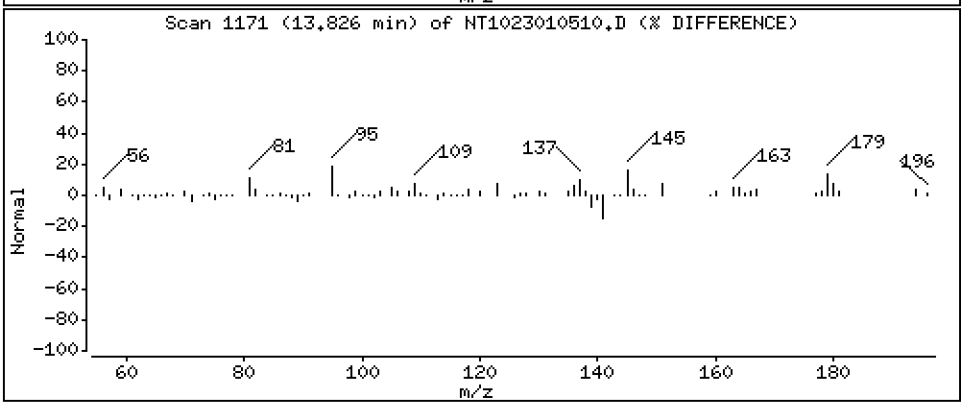












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

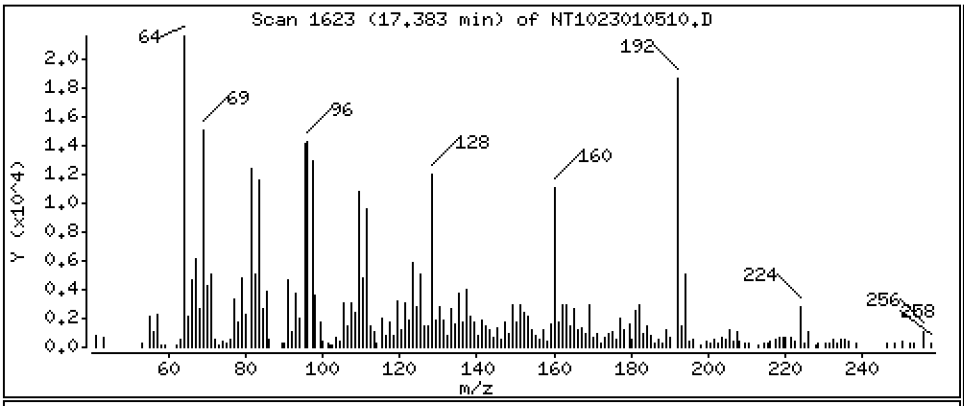
Operator: VTS

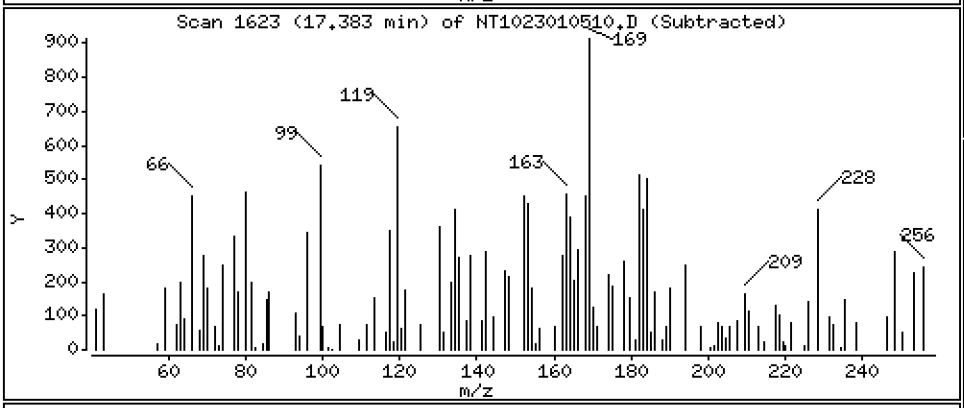
Column phase: ZB-5msi

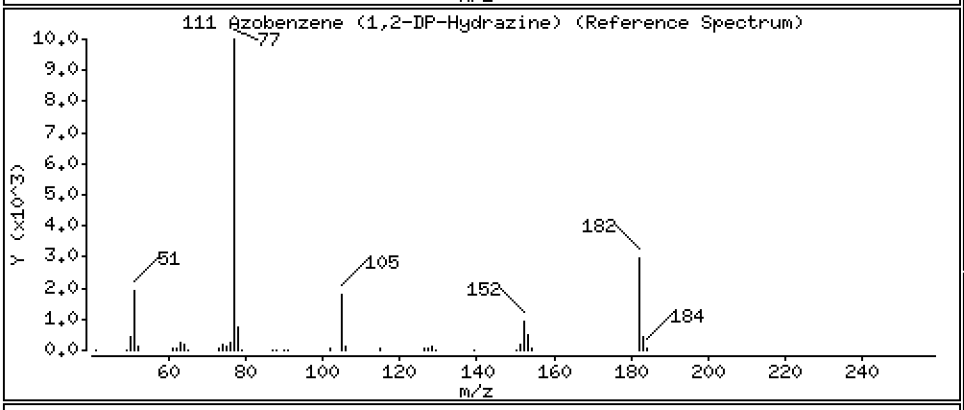
Column diameter: 0.25

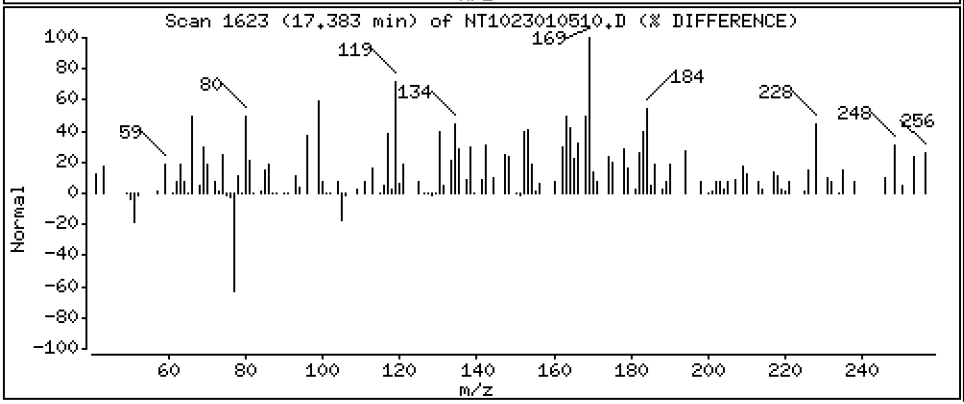
111 Azobenzene (1,2-DP-Hydrazine)

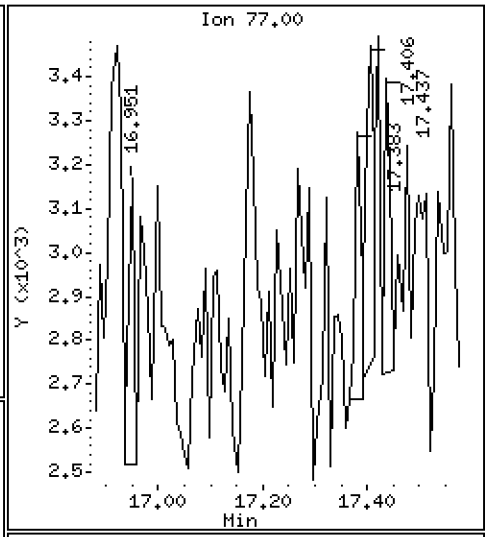
Concentration: 0.009653 ug/mL

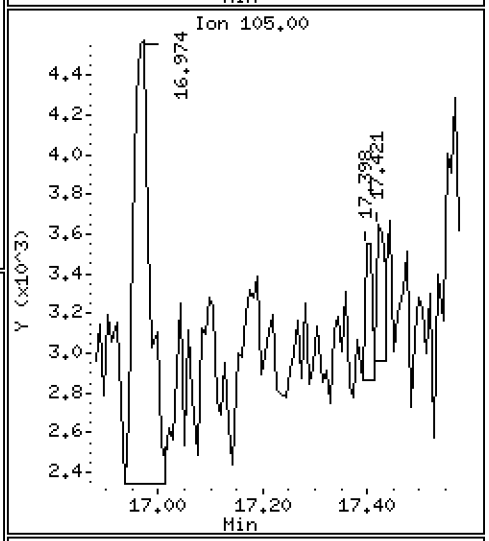


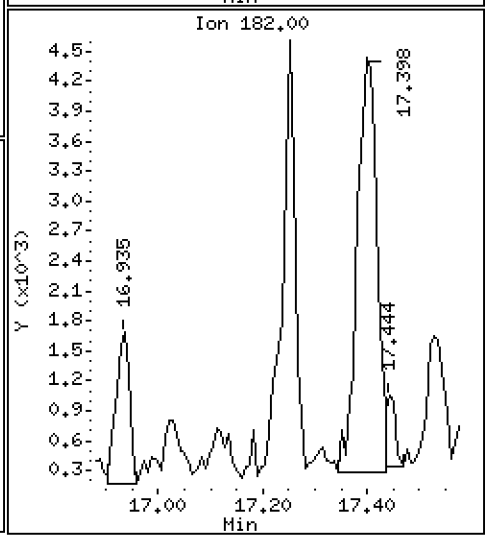












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Date : 05-JAN-2023 19:09

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-10

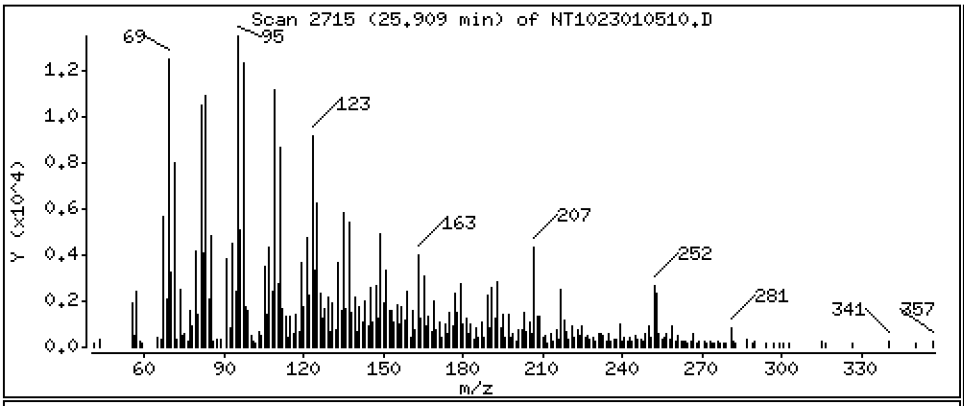
Operator: VTS

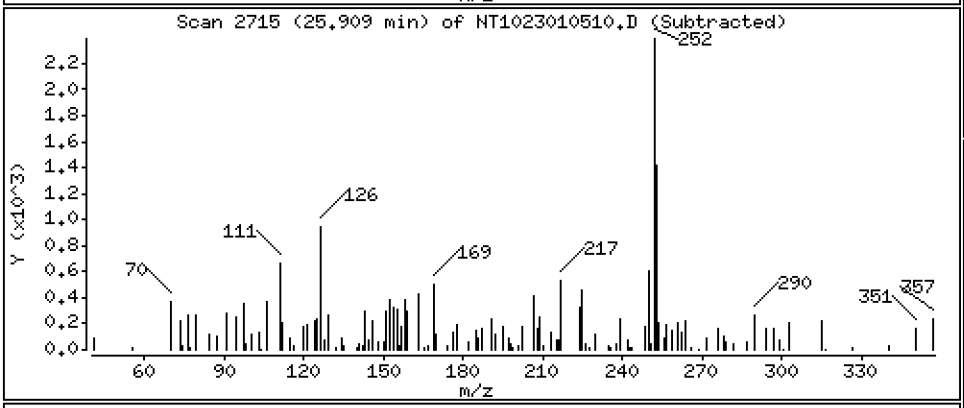
Column phase: ZB-5msi

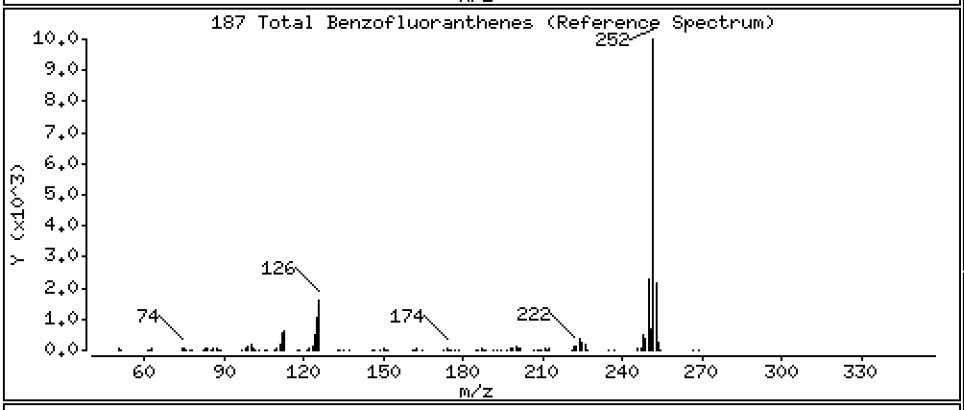
Column diameter: 0.25

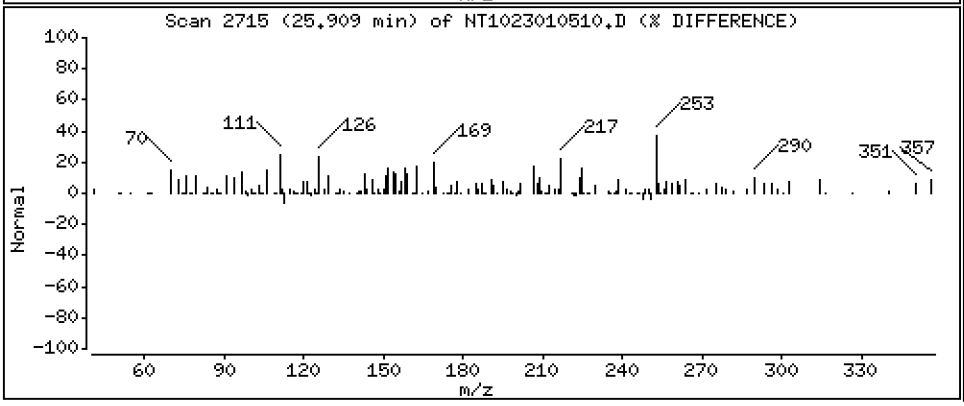
187 Total Benzofluoranthenes

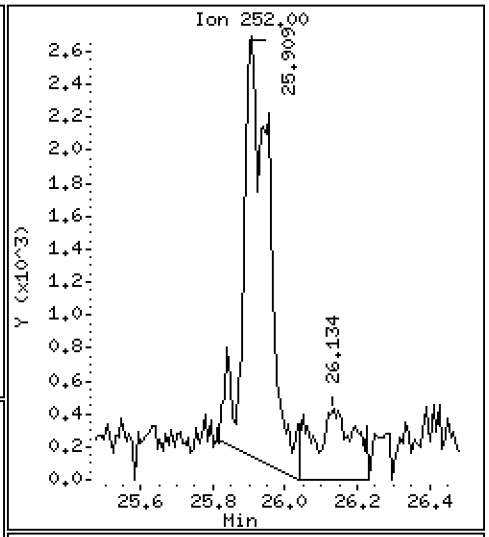
Concentration: 0.4495 ug/mL

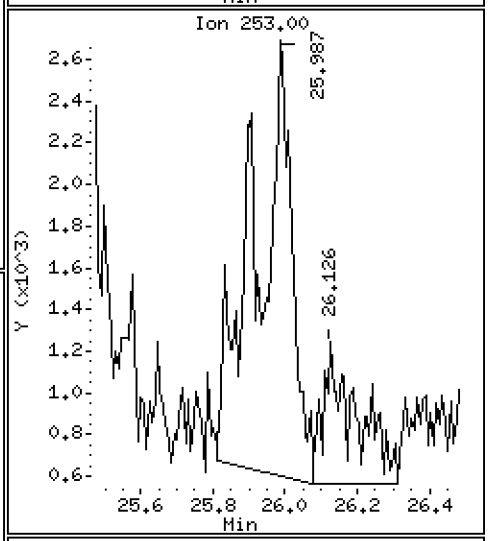


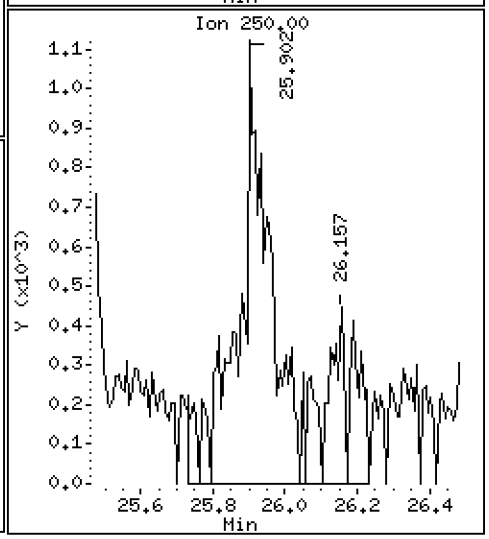












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: 22L0246-10
Inj Date : 05-JAN-2023 19:09
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-10
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 10
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

								CONCENTRATIONS	
		QUANT SIG						ON-COLUMN	FINAL
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE		(ug/mL)	(ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	147454		5.75165	5.752
$	2 Phenol-d5	99	9.005	9.012	(0.931)	173731		5.65651	5.657
	3 Phenol	94	9.020	9.036	(0.933)	2845		0.09919	0.09919
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	186661		6.92839	6.928
	4 Bis(2-Chloroethyl)ether	93	9.414	9.205	(0.974)	103		0.00401	0.004011
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	78295		4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	70414		4.19576	4.196
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	9.926	9.941	(1.026)	1198		0.08966	0.08966
	14 2,2'-oxybis(1-Chloropropane)	121	9.918	10.244	(1.026)	579		0.07517	0.07517
	13 2-Methylphenol	108	10.143	10.158	(1.049)	307		0.01591	0.01591
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	10.415	10.422	(1.077)	2276		0.17208	0.1721
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	91111		4.48161	4.482
	19 Nitrobenzene	77	10.880	10.810	(0.895)	156		0.00879	0.008792
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	11.476	11.476	(0.944)	338		0.01436	0.01436
	23 Bis(2-Chloroethoxy)methane	93	11.688	11.671	(0.961)	162		0.00795	0.007949
	24 Benzoic acid	105	11.663	11.671	(0.959)	205		0.02118	0.02118
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	12.162	12.185	(1.000)	304719		4.00000	
	28 Naphthalene	128	12.208	12.224	(1.004)	20464		0.30541	0.3054
	29 4-Chloroaniline	127	12.201	12.339	(1.003)	2753		0.10641	0.1064
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	13.252	13.291	(1.090)	471		0.02489	0.02489
	32 2-Methylnaphthalene	142	13.601	13.624	(1.118)	8958		0.16903	0.1690
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.375	14.398	(0.910)	212429	4.80832	4.808
	37	2-Chloronaphthalene	162	14.669	14.622	(0.929)	175	0.00443	0.004434
	38	2-Nitroaniline	65	14.839	14.862	(0.940)	220	0.04173	0.04173
	39	Dimethylphthalate	163	15.241	15.280	(0.965)	2131	0.05926	0.05926
	40	Acenaphthylene	152	15.481	15.497	(0.980)	4290	0.07565	0.07565
	41	2,6-Dinitrotoluene	165	15.404	15.427	(0.975)	326	0.03991	0.03991
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	119252	4.00000	
	43	3-Nitroaniline	138	15.721	15.721	(0.996)	574	0.10195	0.1020
	44	Acenaphthene	153	15.860	15.876	(1.004)	2074	0.06591	0.06591
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.185	16.208	(1.025)	5657	0.11831	0.1183
	47	4-Nitrophenol	109	16.023	16.038	(1.015)	1018	0.23968	0.2397
	48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	669	0.06104	0.06104
	50	Diethylphthalate	149	16.719	16.742	(1.059)	24246	0.63925	0.6393
	49	Fluorene	166	16.896	16.919	(1.070)	12699	0.18090	0.1809
	51	4-Chlorophenyl-phenylether	204	16.835	16.896	(1.066)	156	0.00692	0.006919
	52	4-Nitroaniline	138	17.020	17.004	(1.078)	487	0.03135	0.03135
	53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	145	0.01831	0.01831
	54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.909)	5587	0.16038	0.1604
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	20293	8.20561	8.206
	56	4-Bromophenyl-phenylether	248	17.914	17.914	(0.951)	350	0.03816	0.03816
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	18.548	18.594	(0.984)	672	0.49567	0.4957
*	59	Phenanthrene-d10	188	18.842	18.865	(1.000)	188212	4.00000	
	60	Phenanthrene	178	18.889	18.919	(1.002)	22871	0.50087	0.5009
	61	Anthracene	178	18.989	19.005	(1.008)	5996	0.13451	0.1345
	62	Carbazole	167	19.306	19.322	(1.025)	2074	0.04318	0.04318
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	4226	0.06707	0.06707
	64	Fluoranthene	202	21.272	21.271	(0.892)	22412	0.57690	0.5769
	65	Pyrene	202	21.682	21.689	(0.909)	24041	0.61594	0.6159
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	108117	4.52357	4.524
	67	Butylbenzylphthalate	149	22.688	22.851	(0.951)	673	0.03222	0.03222
	68	Benzo(a)anthracene	228	23.819	23.842	(0.999)	5780	0.21710	0.2171
*	69	Chrysene-d12	240	23.850	23.873	(1.000)	98636	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.772	23.780	(0.997)	960	0.09791	0.09791
	71	Chrysene	228	23.888	23.919	(1.002)	7324	0.29997	0.3000
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.958)	9618	0.23426	0.2343
*	134	Di-n-octylphthalate-d4	153	24.895	24.926	(1.000)	267348	4.00000	
	73	Di-n-octylphthalate	149	24.980	24.941	(1.003)	8237	0.13324	0.1332
	74	Benzo(b)fluoranthene	252	25.909	25.932	(0.966)	5497	0.17990	0.1799
	75	Benzo(k)fluoranthene	252	25.909	25.978	(0.966)	5497	0.18465	0.1846
	76	Benzo(a)pyrene	252	26.869	26.691	(1.002)	227323	7.80165	7.802
*	77	Perylene-d12	264	26.807	26.822	(1.000)	84826	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.892	29.946	(1.115)	1531	0.06685	0.06685
	79	Dibenzo(a,h)anthracene	278	29.915	29.970	(1.116)	264	0.01467	0.01467
	80	Benzo(g,h,i)perylene	276	30.855	30.886	(1.151)	1502	0.07949	0.07949
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.028	9.128	(0.934)	184	0.00685	0.006849
	93	Benzidine	184	21.473	21.480	(0.900)	393	0.02170	0.02170
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.825	13.848	(1.137)	6751	0.13037	0.1304
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.382	17.228	(1.101)	454	0.00965	0.009653

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.978	(0.966)	13005	0.44950	0.4495
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010510.D
Lab Smp Id: 22L0246-10
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	78295	-4.20
27 Naphthalene-d8	307034	153517	614068	304719	-0.75
42 Acenaphthene-d10	140557	70279	281114	119252	-15.16
59 Phenanthrene-d10	243620	121810	487240	188212	-22.74
69 Chrysene-d12	144852	72426	289704	98636	-31.91
134 Di-n-octylphthala	387178	193589	774356	267348	-30.95
77 Perylene-d12	106683	53342	213366	84826	-20.49

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.16	-0.19
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.12
77 Perylene-d12	26.82	26.32	27.32	26.81	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010510.D

Lab ID: 22L0246-10
nt10.i, ABN.m, 05-JAN-2023 19:09

RT	CO-ELUTION COMPOUNDS
25.909	Benzo(k)fluoranthene and Benzo(b)fluoranthene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.974	0.950	0.0231	Bis(2-Chloroethyl)ether
1.026	1.058	-0.0320	2,2'-oxybis(1-Chloropropane)
0.895	0.887	0.0074	Nitrobenzene
1.003	1.013	-0.0095	4-Chloroaniline
0.951	0.957	-0.0059	Butylbenzylphthalate
1.002	0.995	0.0072	Benzo(a)pyrene
0.934	0.943	-0.0089	Aniline
1.101	1.089	0.0114	Azobenzene (1,2-DP-Hydrazine)

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810D

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

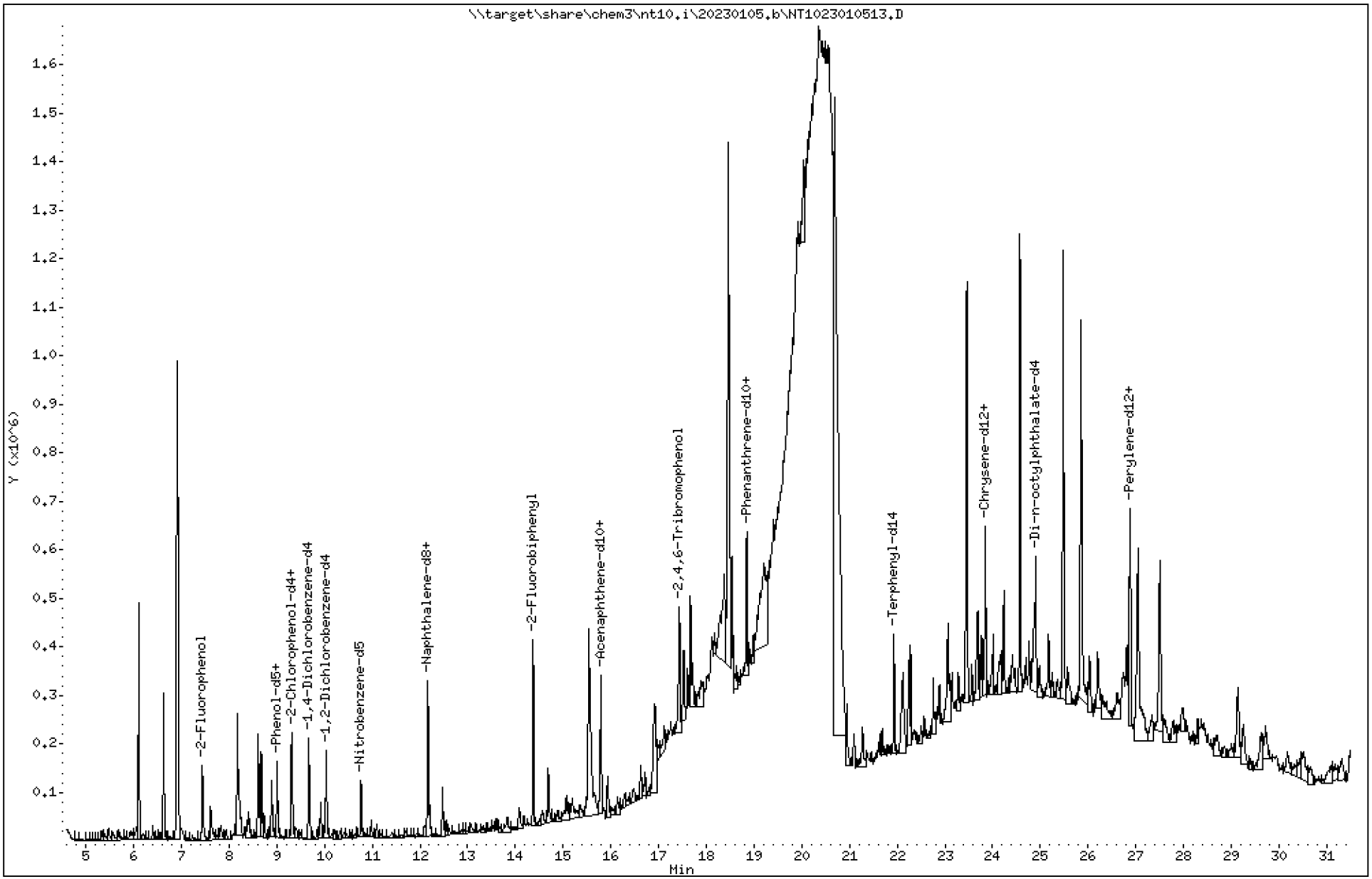
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-11 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010513.D
% Solids:	59.94	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 21:05
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	16.68 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.10	398	79.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010513.D
Date : 05-JAN-2023 21:05
Client ID:
Sample Info: 22L0246-11

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

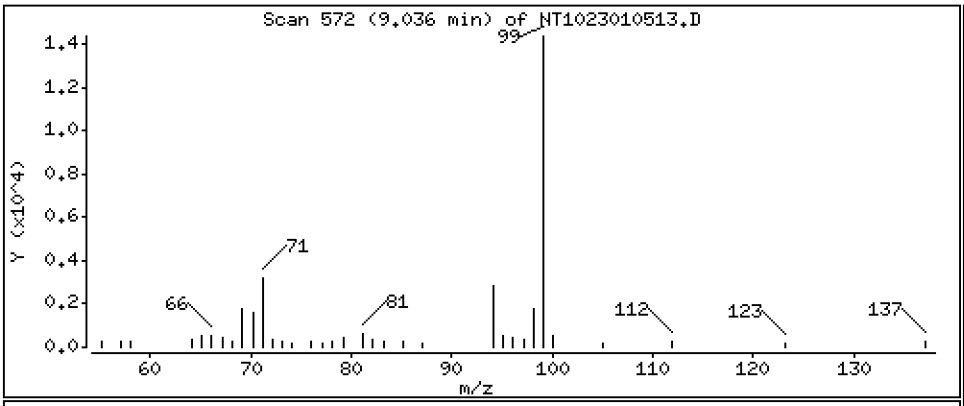
Operator: VTS

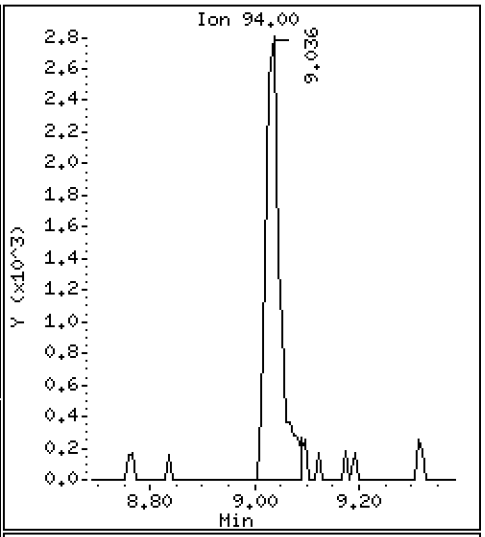
Column phase: ZB-5msi

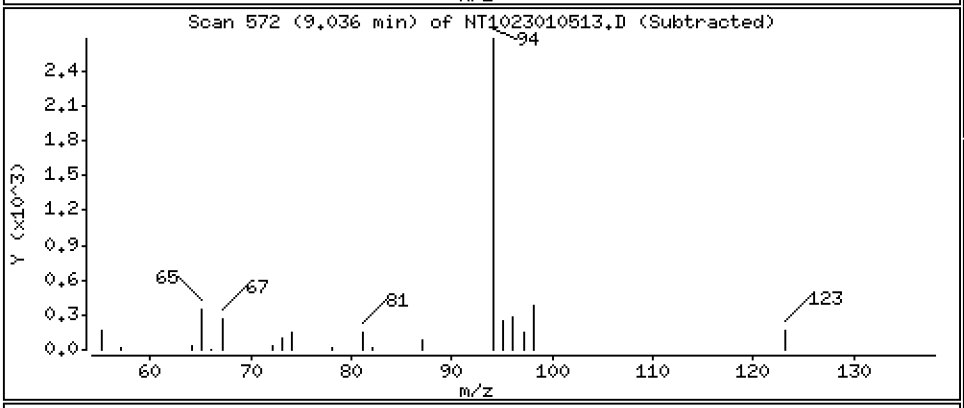
Column diameter: 0.25

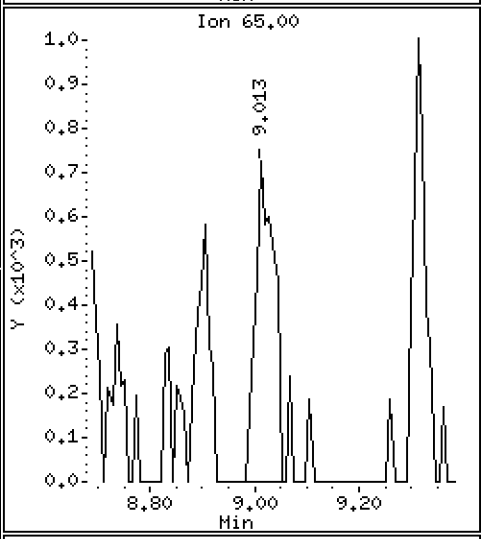
3 Phenol

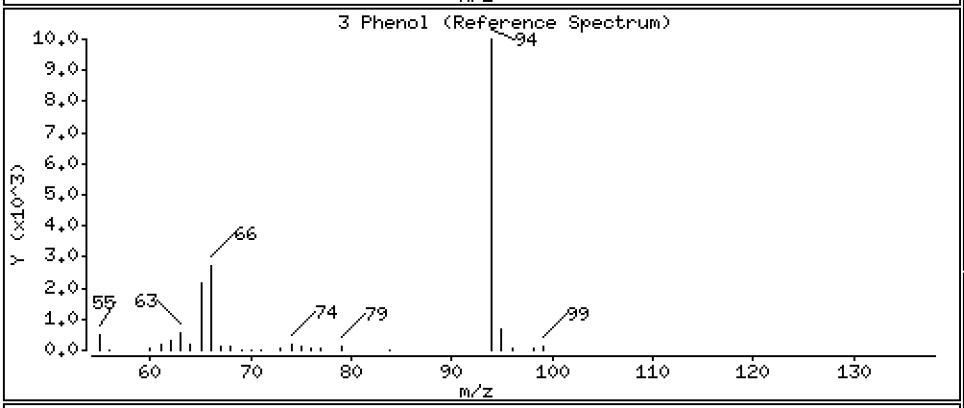
Concentration: 0.1809 ug/mL

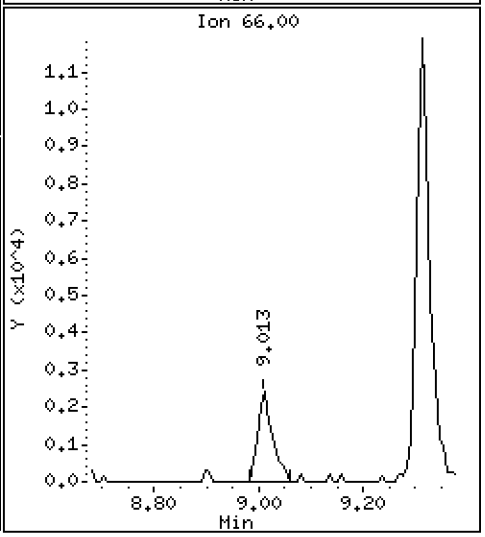


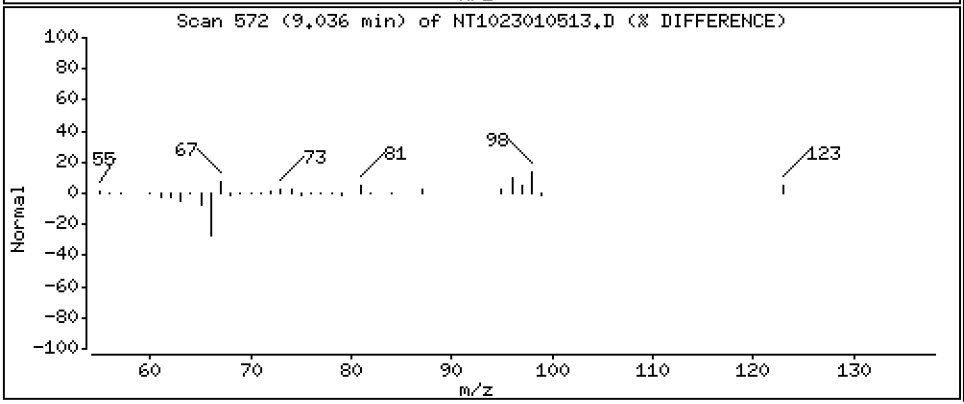












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010513.D

Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

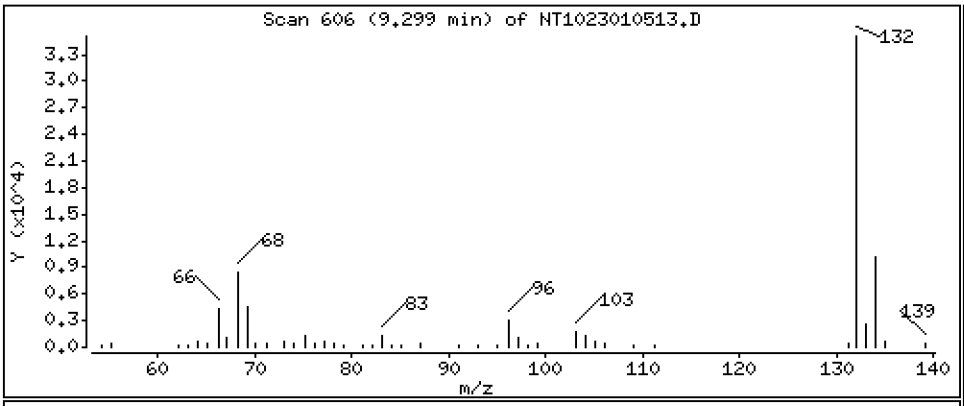
Operator: VTS

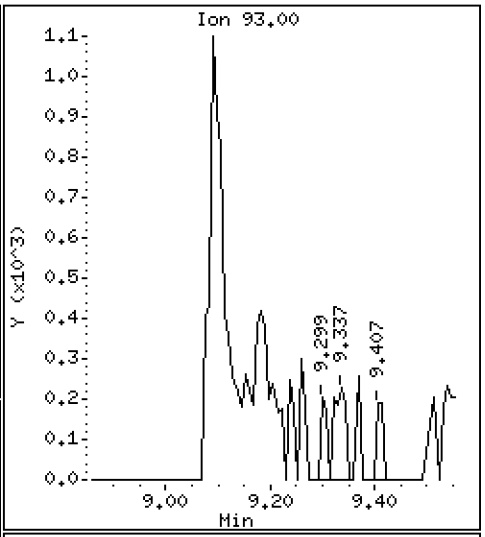
Column phase: ZB-5msi

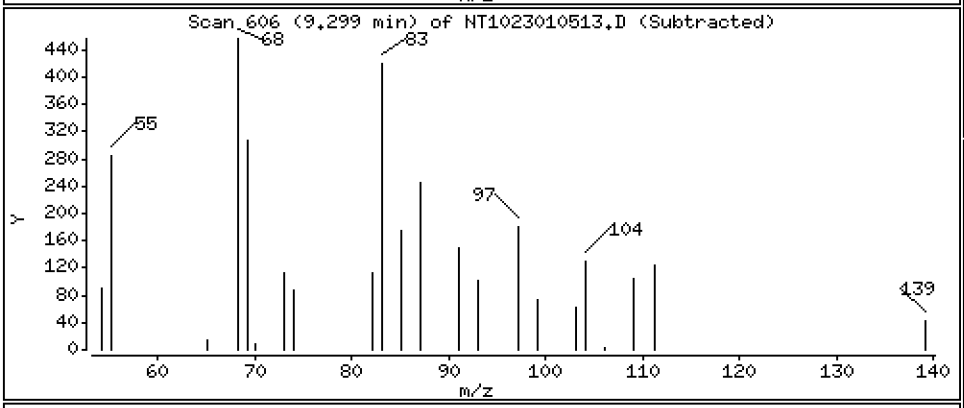
Column diameter: 0.25

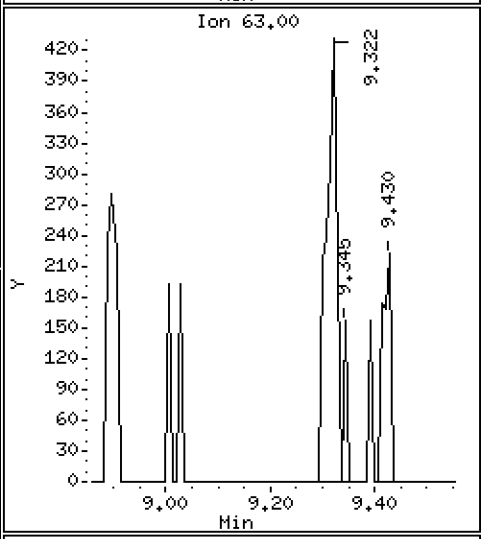
4 Bis(2-Chloroethyl)ether

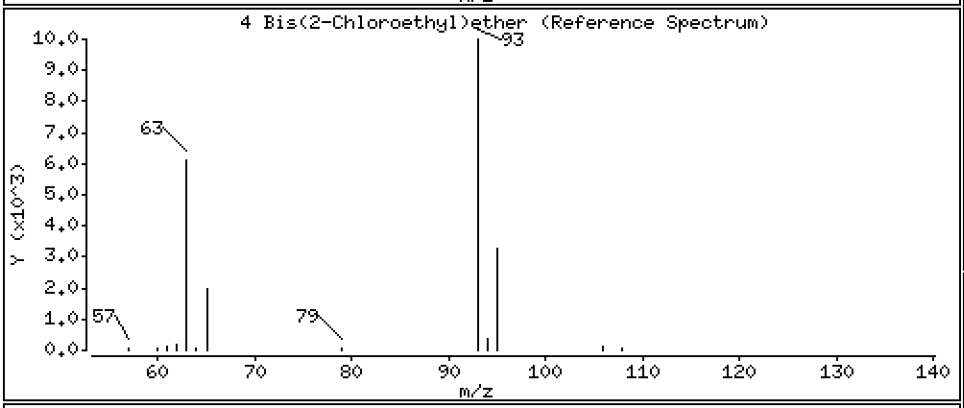
Concentration: 0.006848 ug/mL

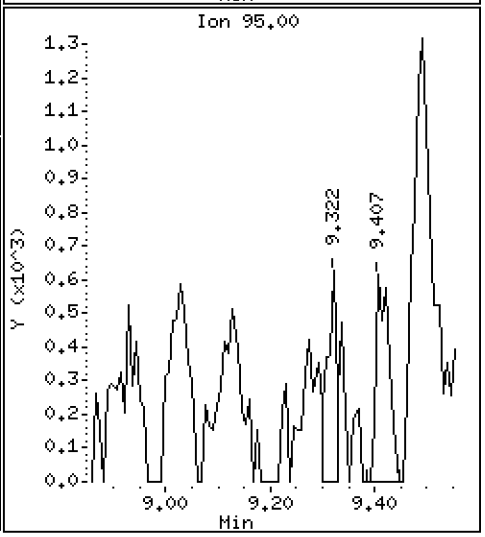


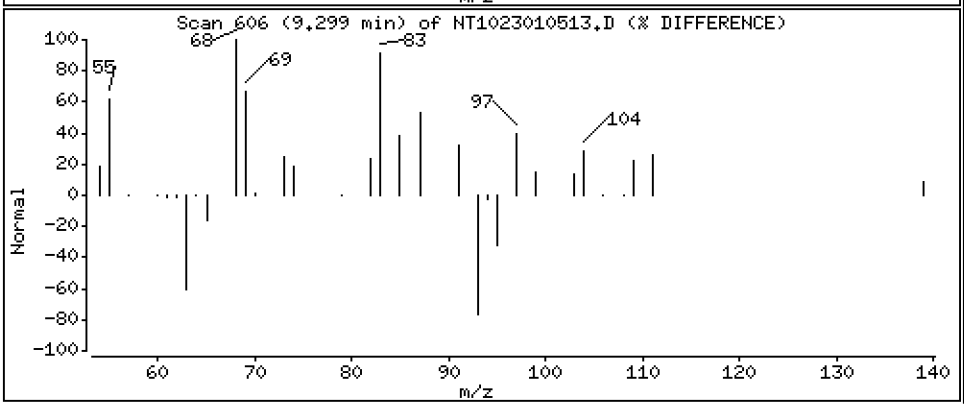












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

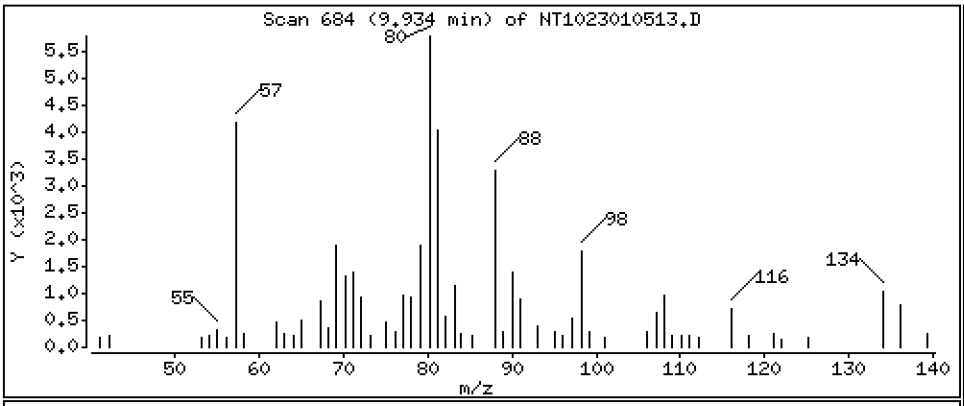
Operator: VTS

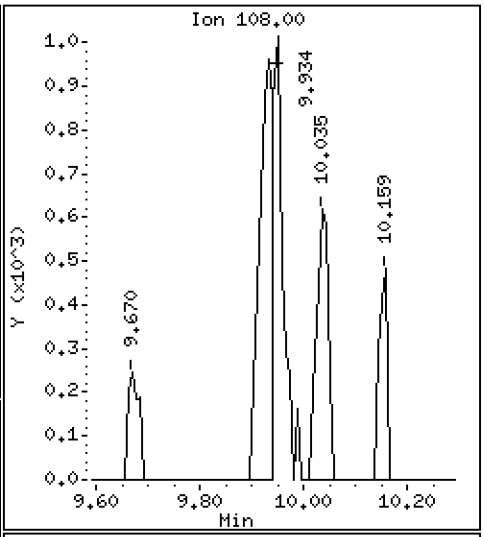
Column phase: ZB-5msi

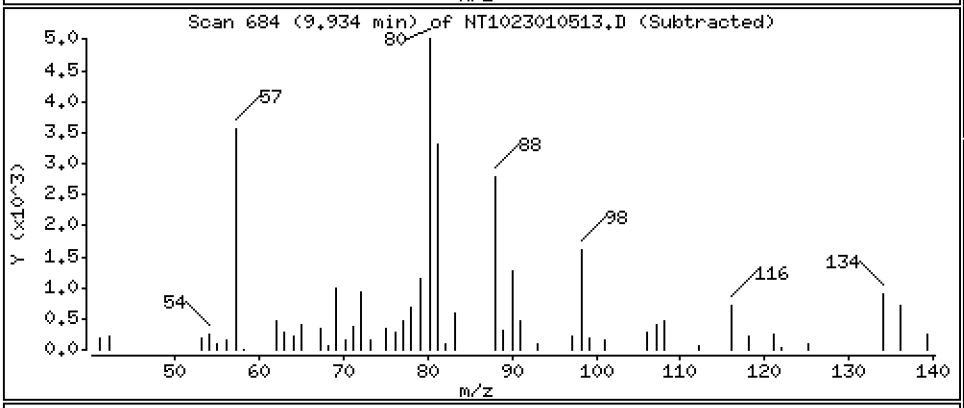
Column diameter: 0.25

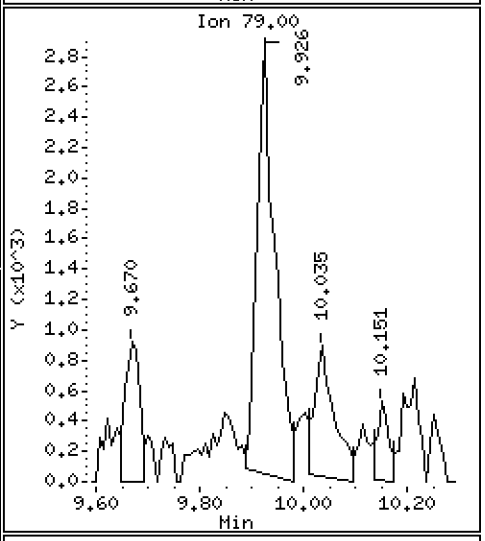
11 Benzyl alcohol

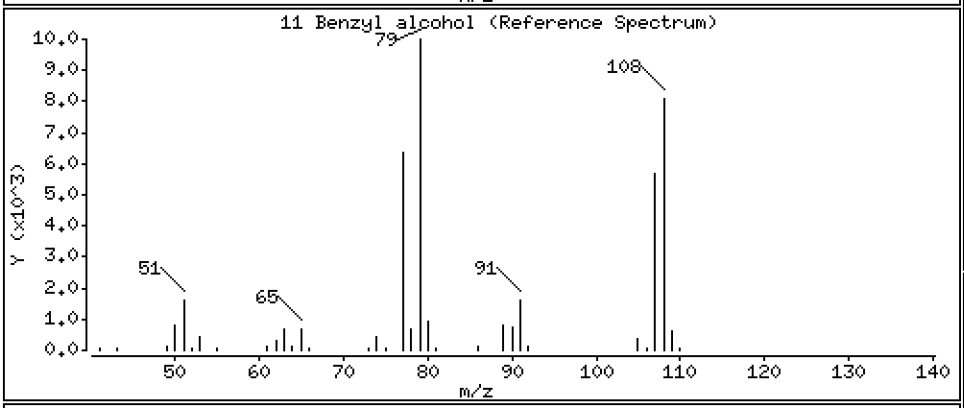
Concentration: 0.1793 ug/mL

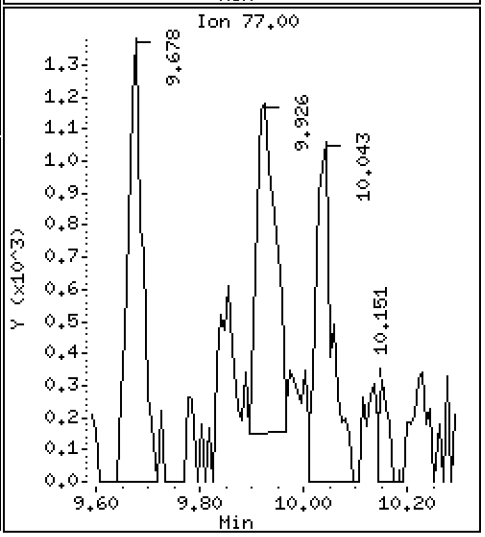


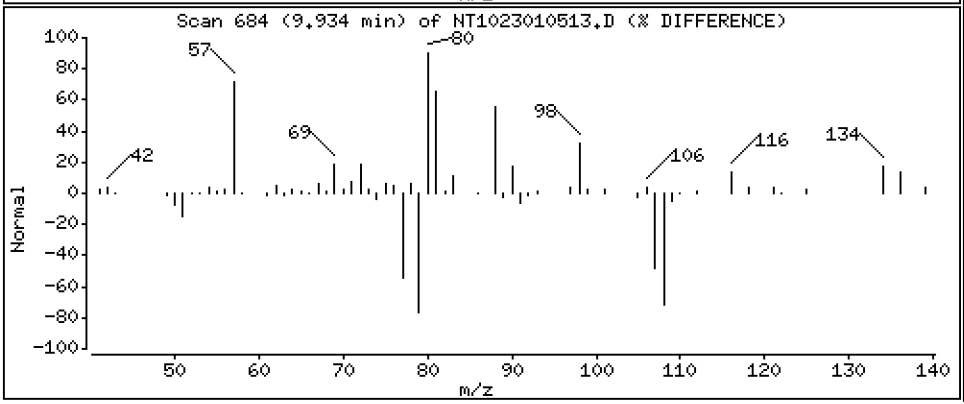












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

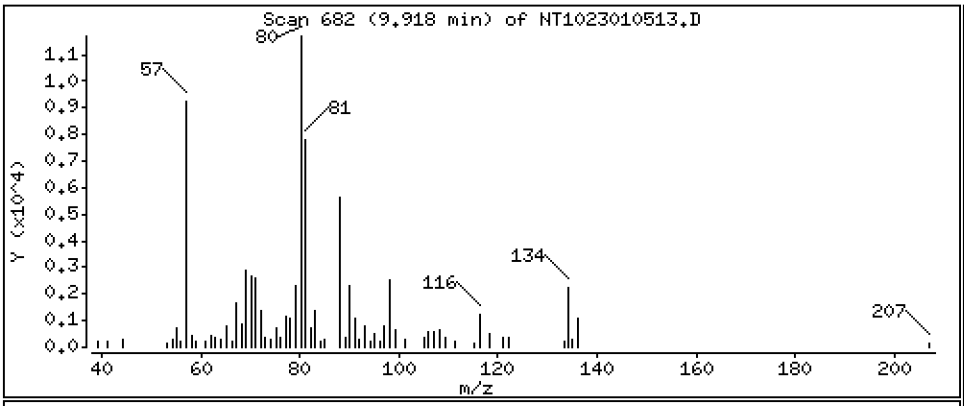
Operator: VTS

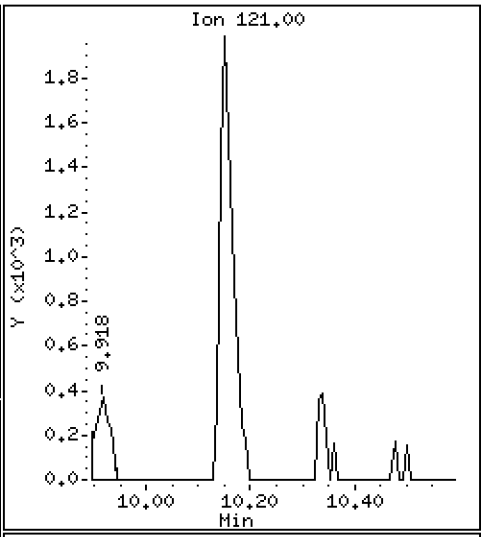
Column phase: ZB-5msi

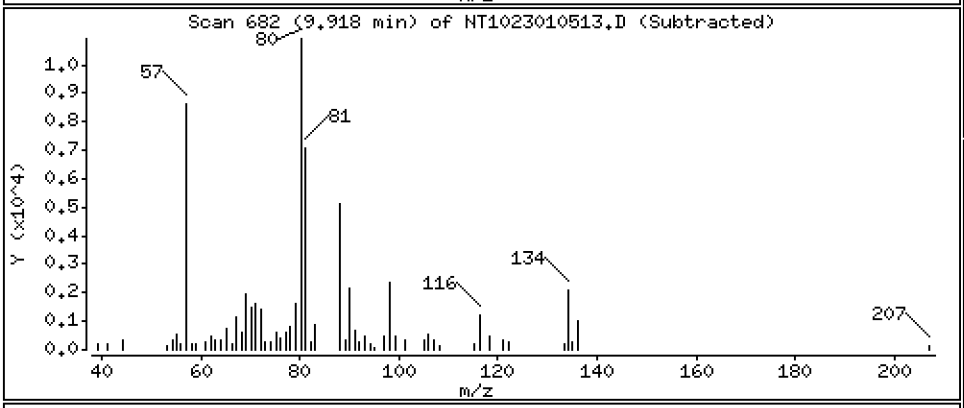
Column diameter: 0.25

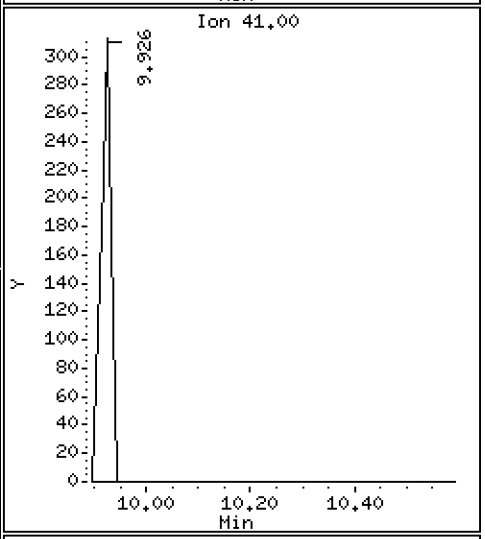
14 2,2'-oxybis(1-Chloropropane)

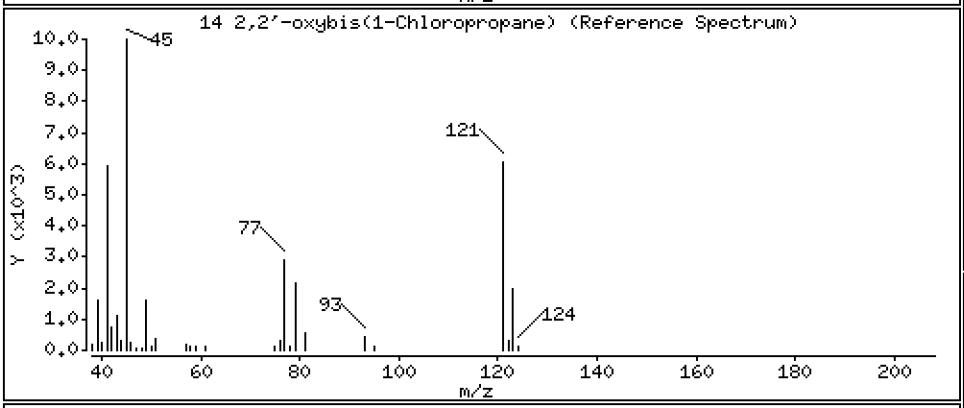
Concentration: 0.09543 ug/mL

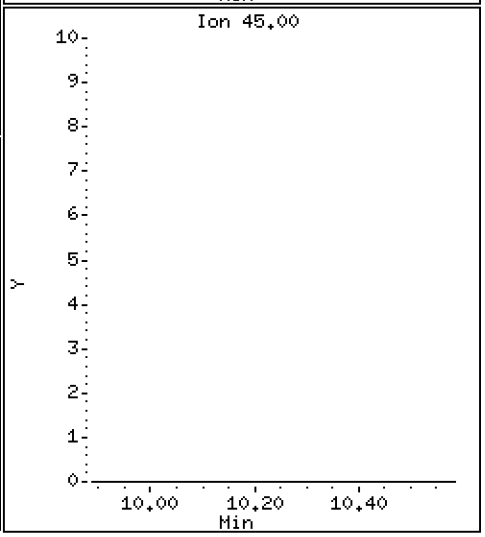


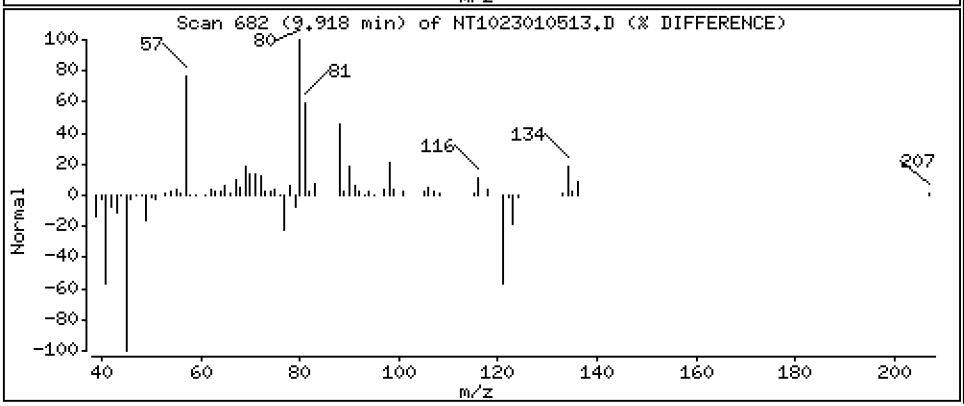












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

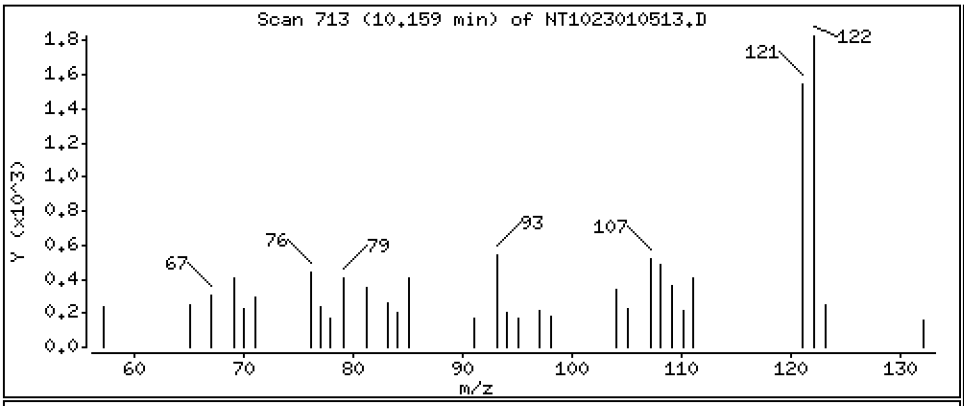
Operator: VTS

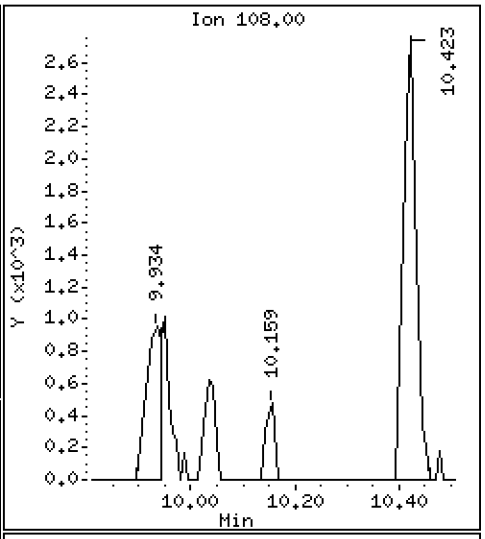
Column phase: ZB-5msi

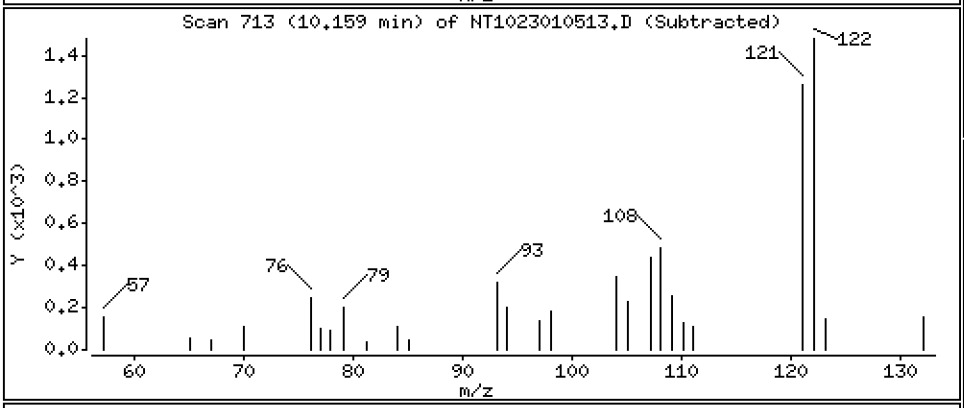
Column diameter: 0.25

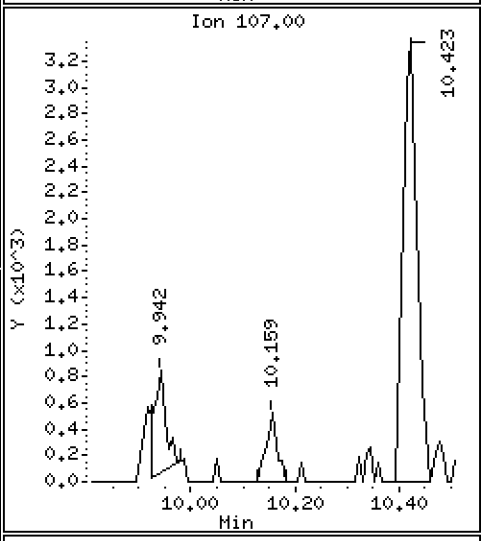
13 2-Methylphenol

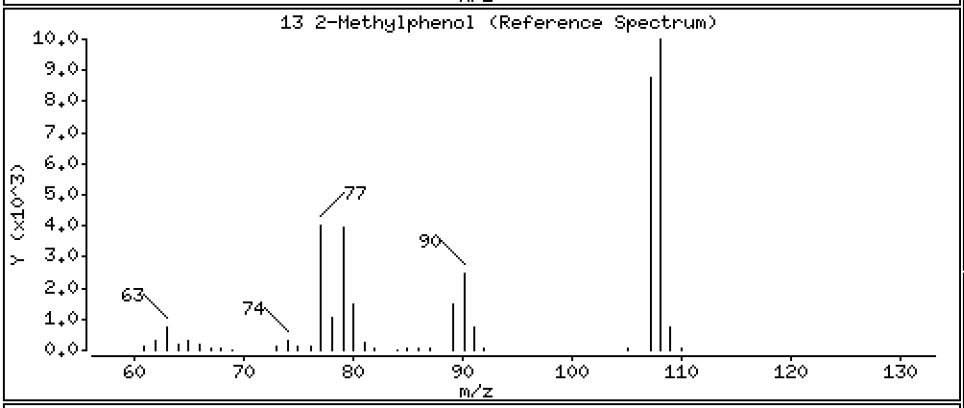
Concentration: 0.02924 ug/mL

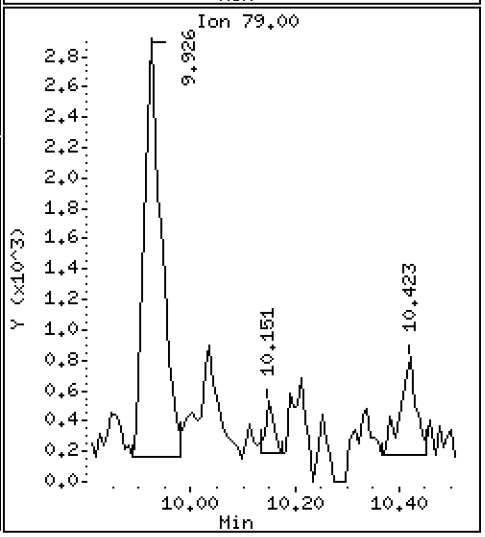


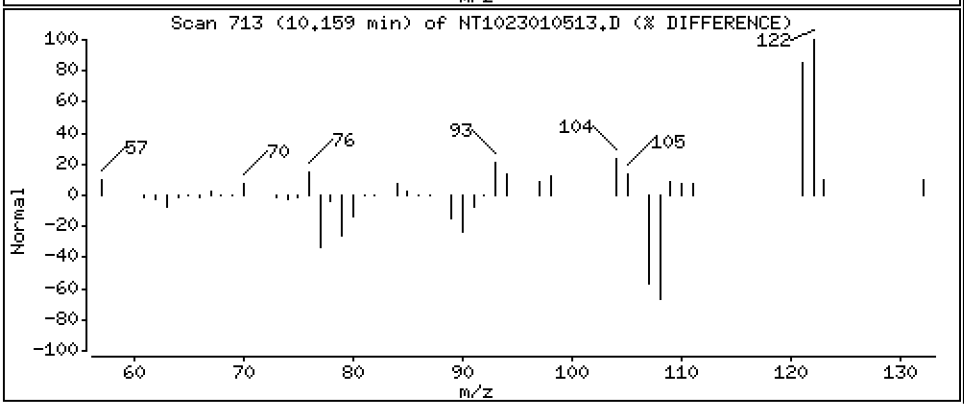












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

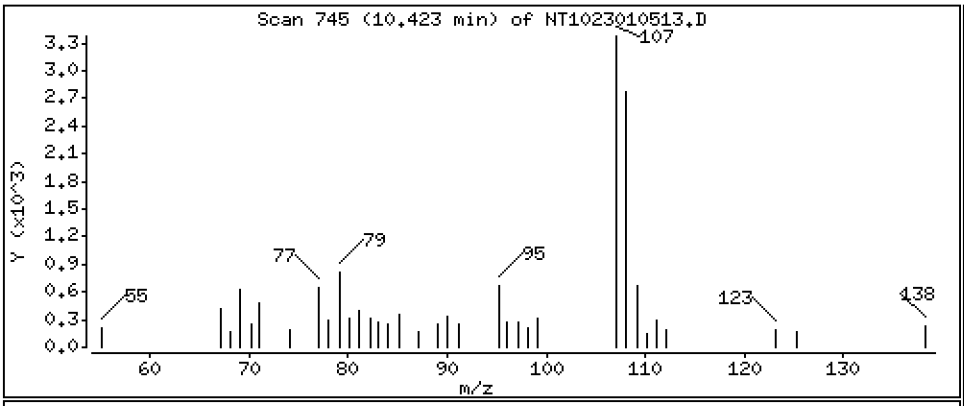
Operator: VTS

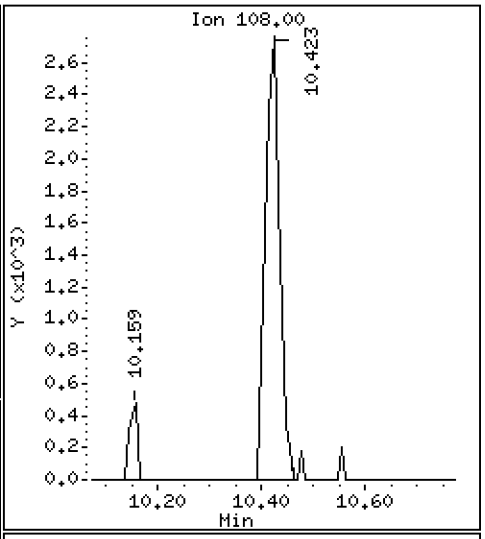
Column phase: ZB-5msi

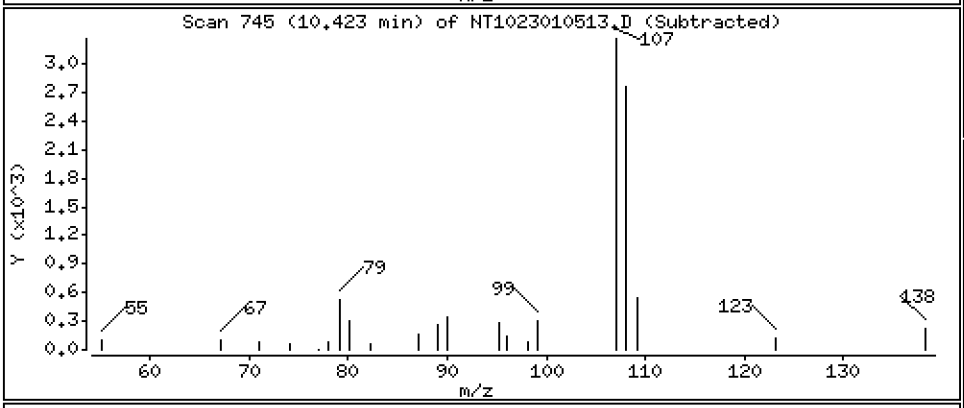
Column diameter: 0.25

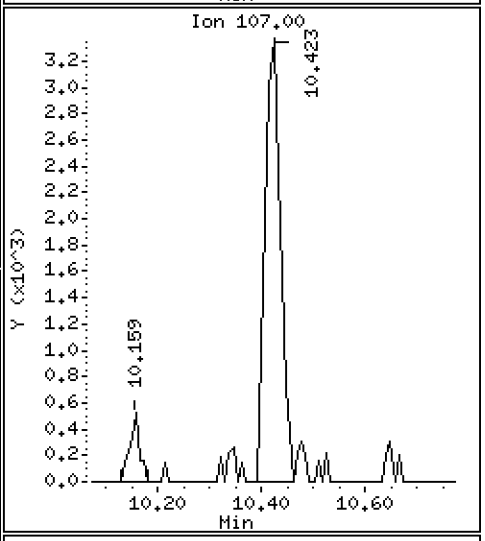
15 4-Methylphenol

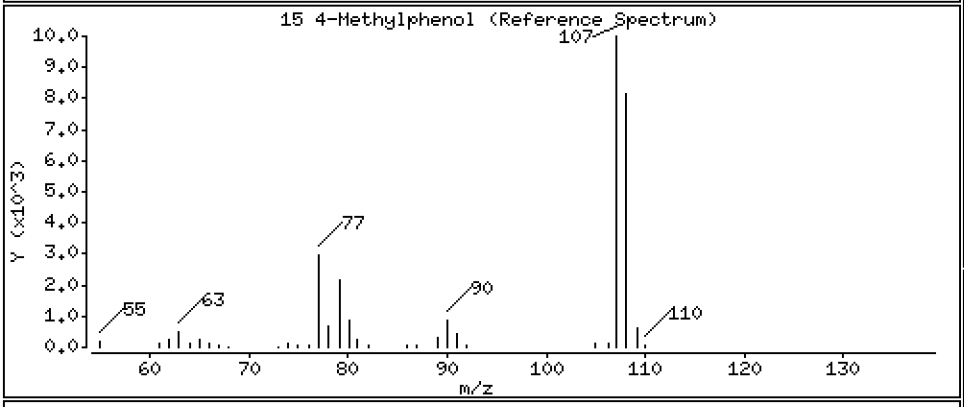
Concentration: 0.3877 ug/mL

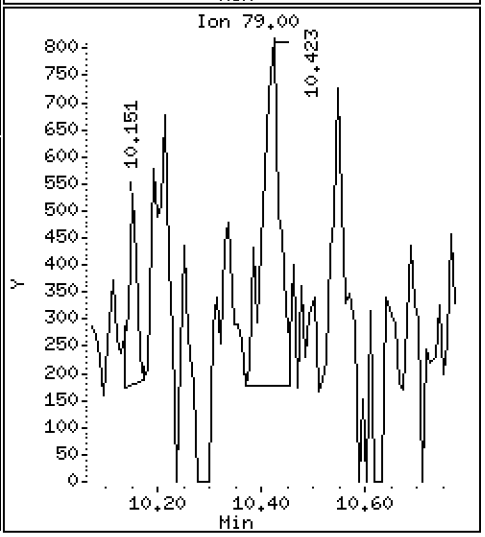


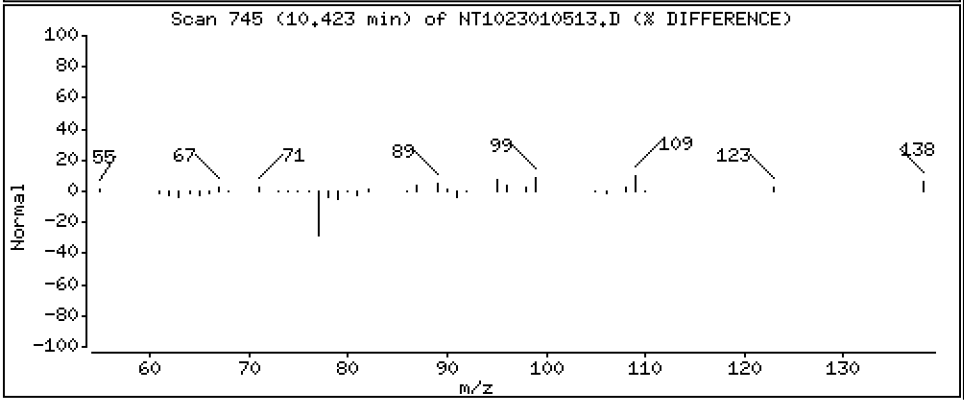












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

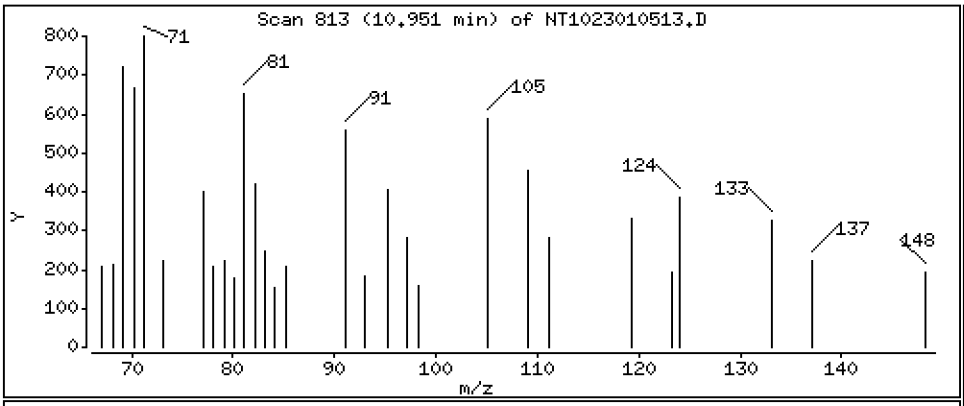
Operator: VTS

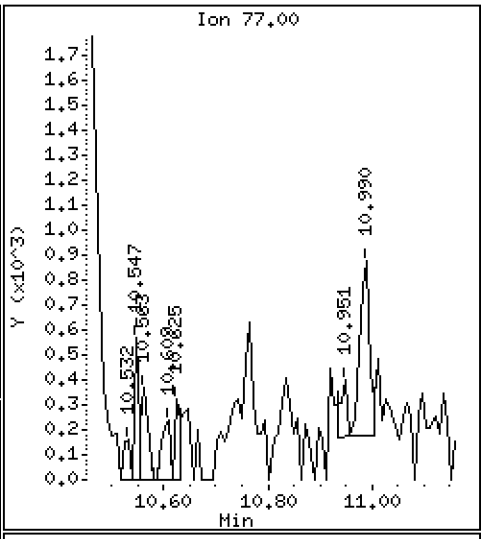
Column phase: ZB-5msi

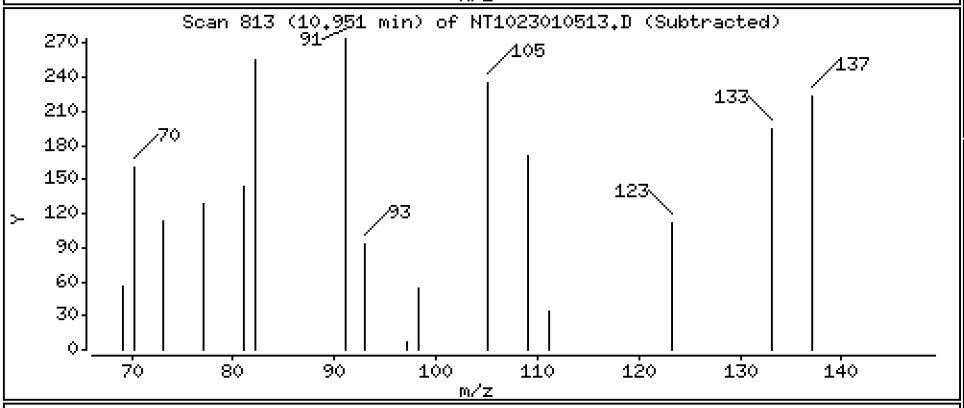
Column diameter: 0.25

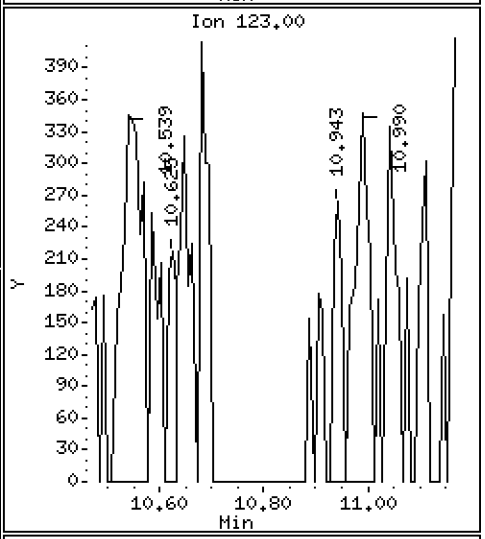
19 Nitrobenzene

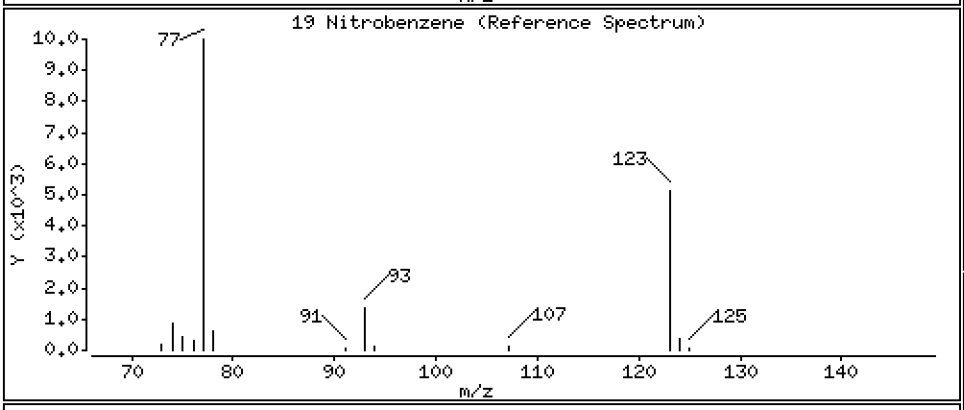
Concentration: 0.01301 ug/mL

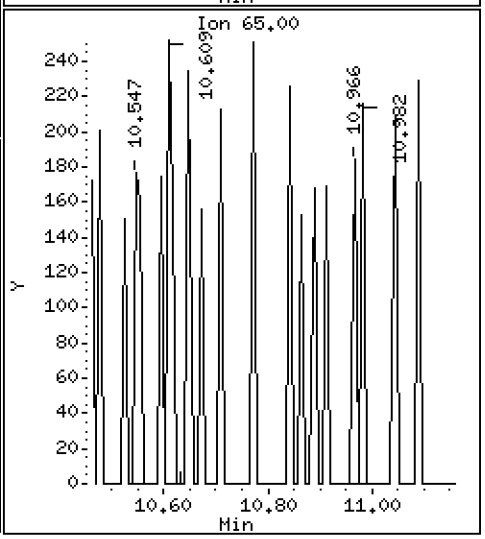


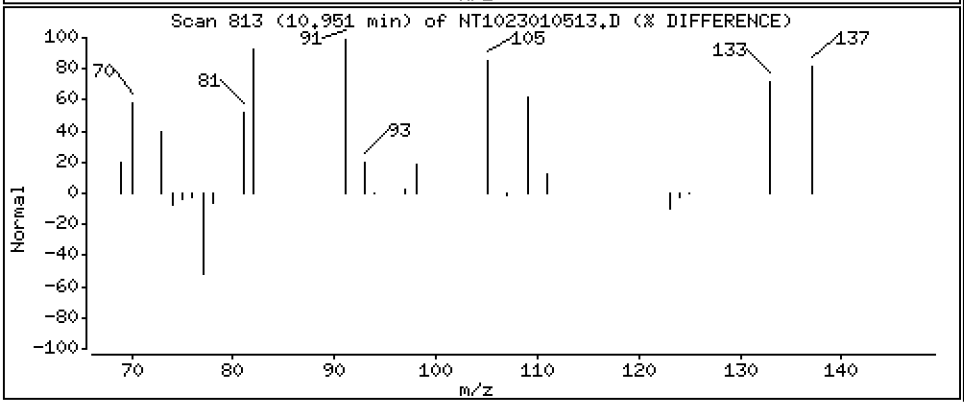












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

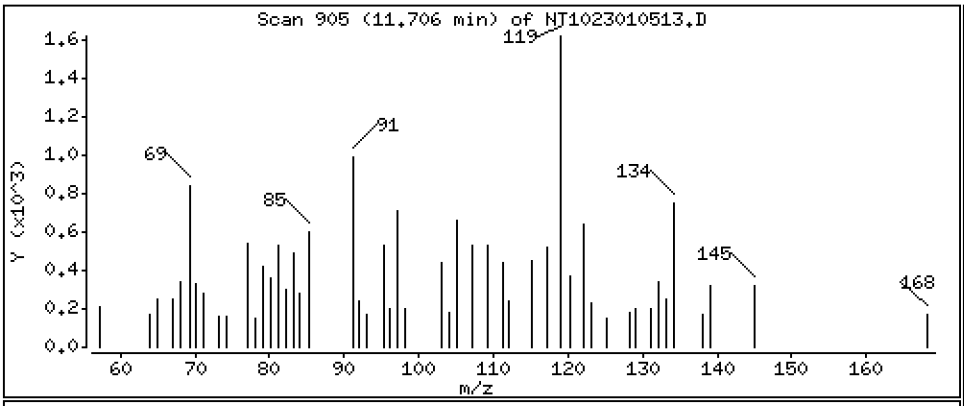
Operator: VTS

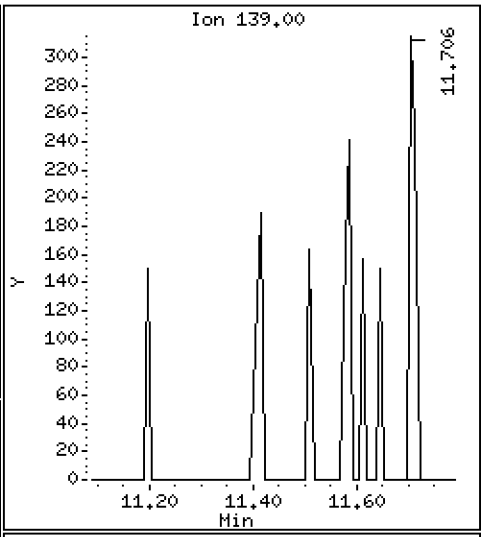
Column phase: ZB-5msi

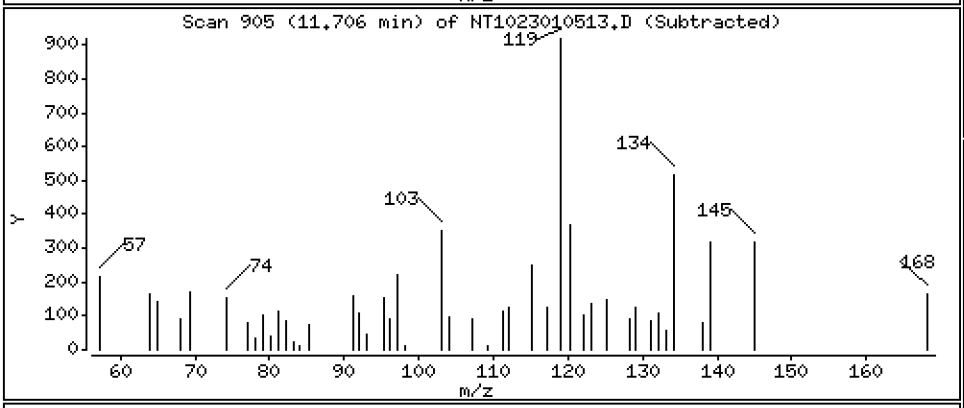
Column diameter: 0.25

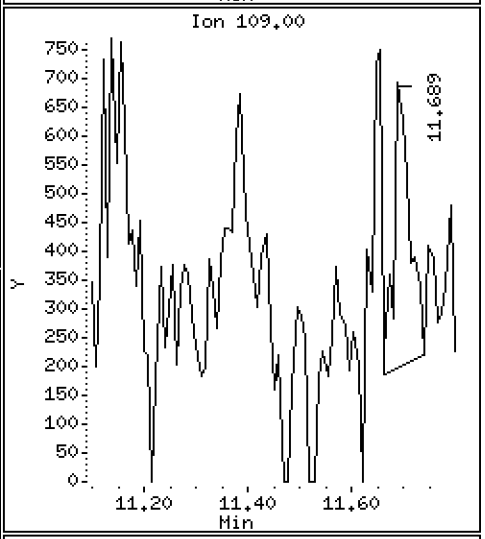
21 2-Nitrophenol

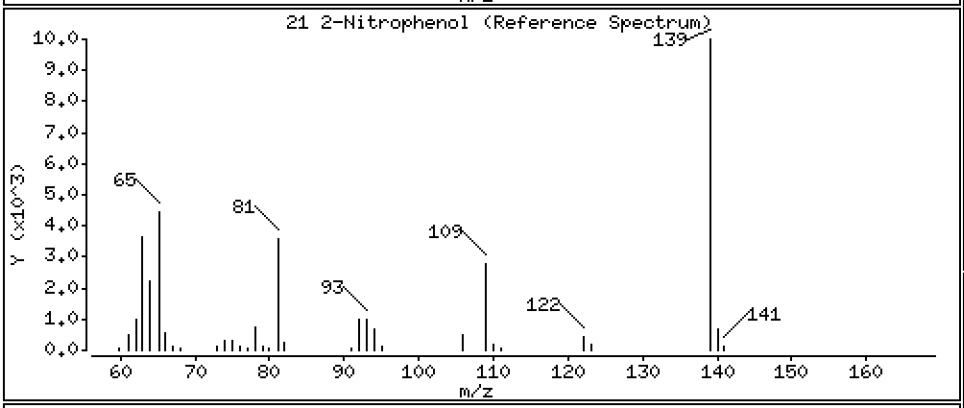
Concentration: 0.01728 ug/mL

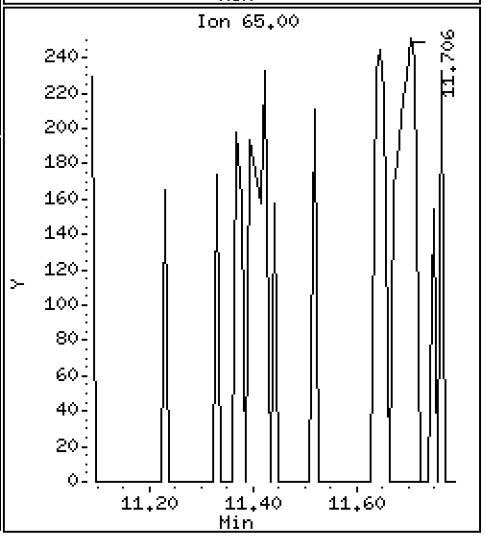


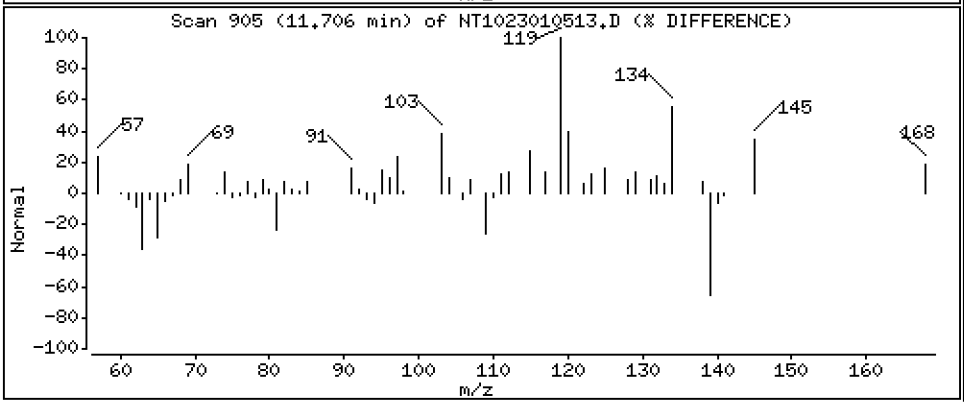












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

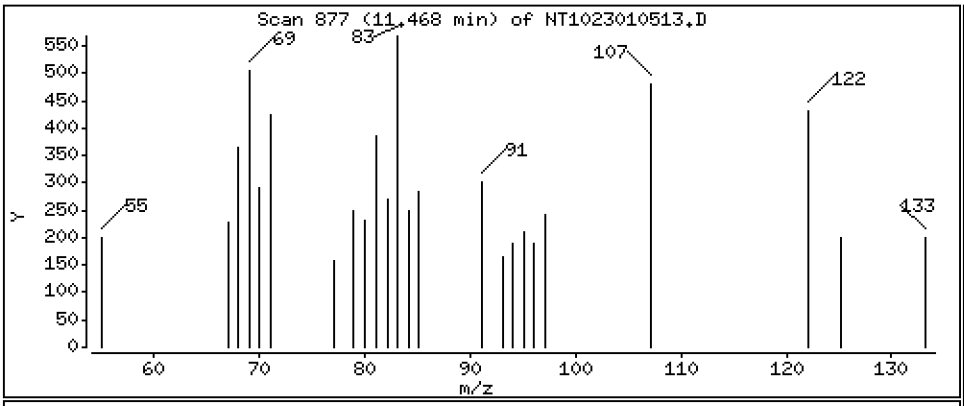
Operator: VTS

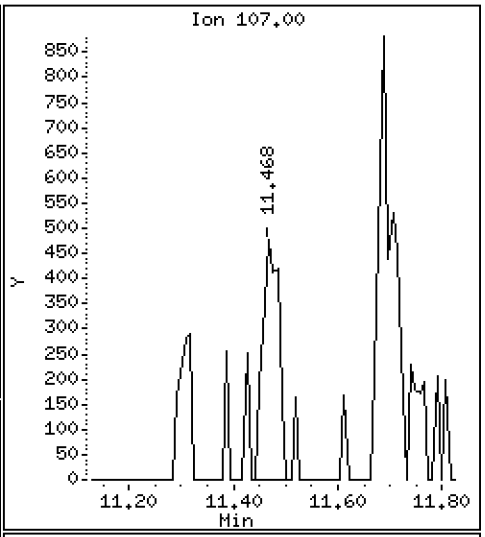
Column phase: ZB-5msi

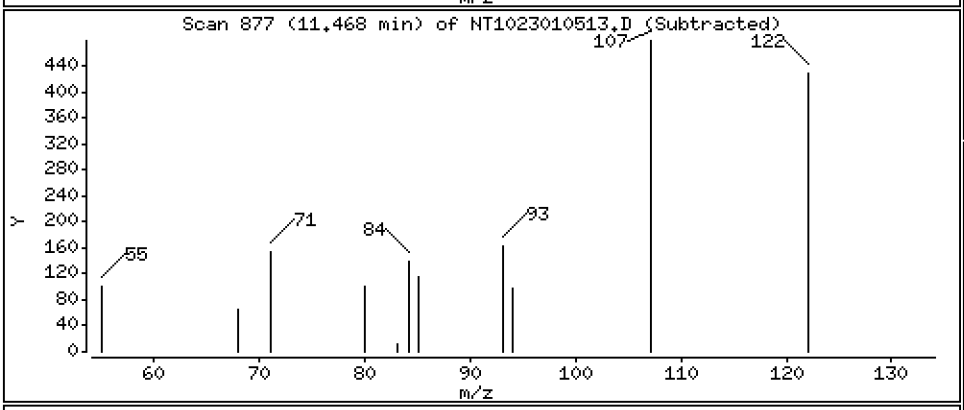
Column diameter: 0.25

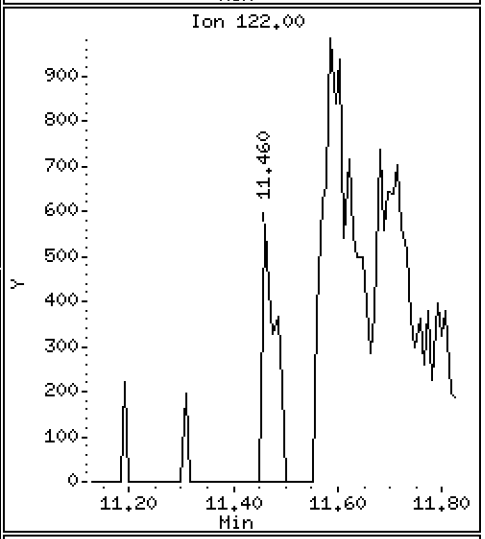
22 2,4-Dimethylphenol

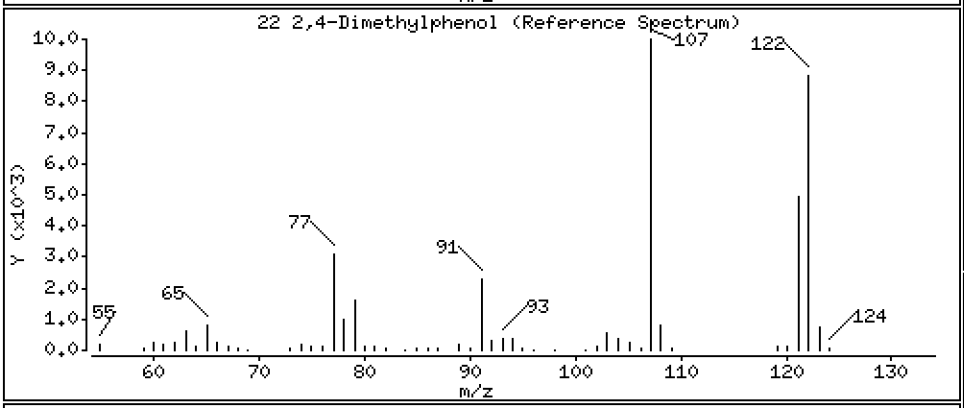
Concentration: 0.04271 ug/mL

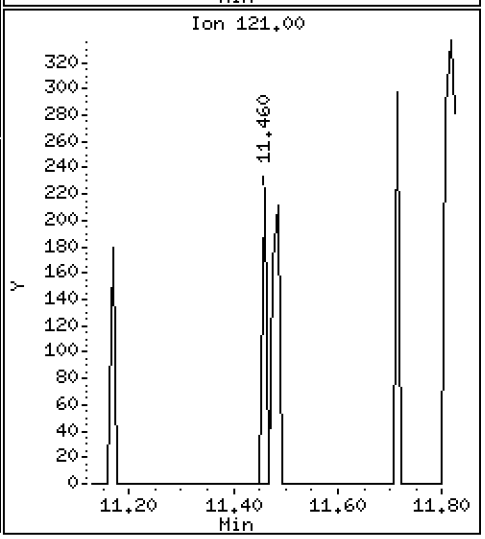


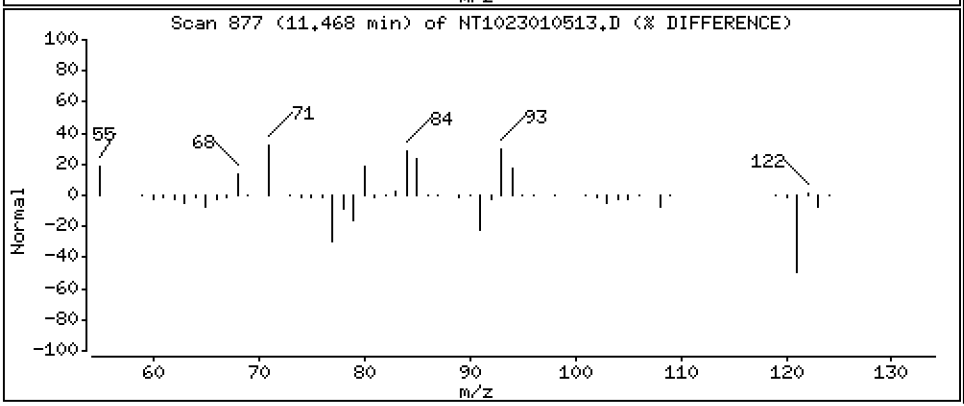












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

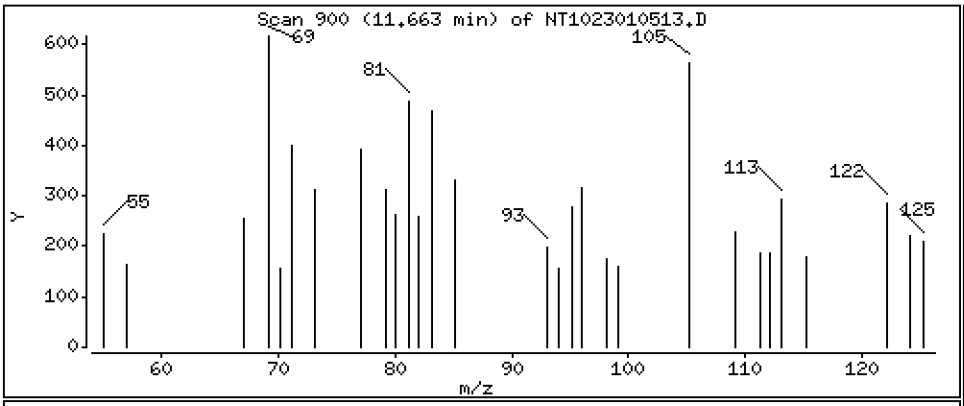
Operator: VTS

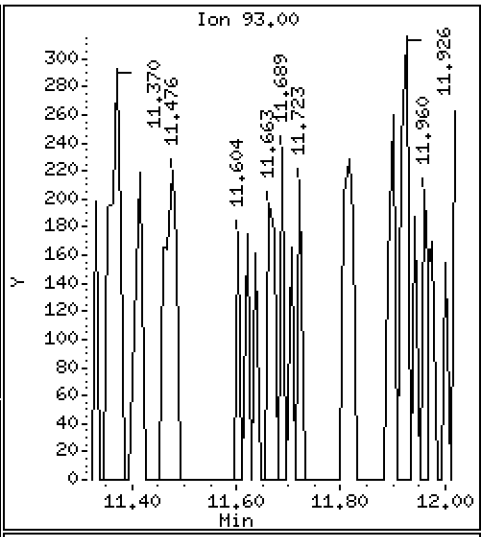
Column phase: ZB-5msi

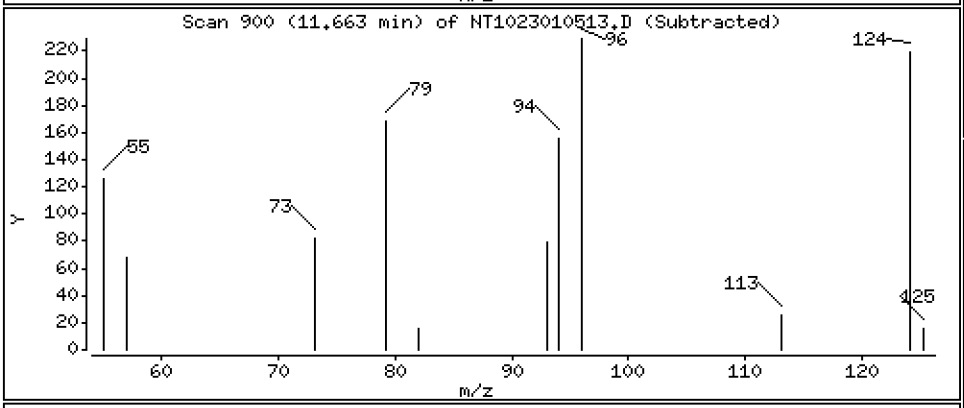
Column diameter: 0.25

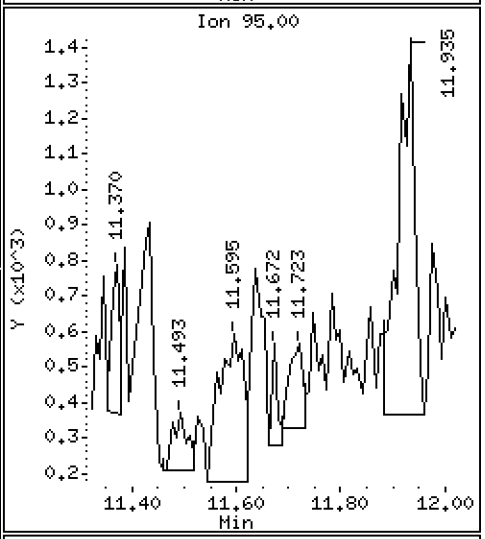
23 Bis(2-Chloroethoxy)methane

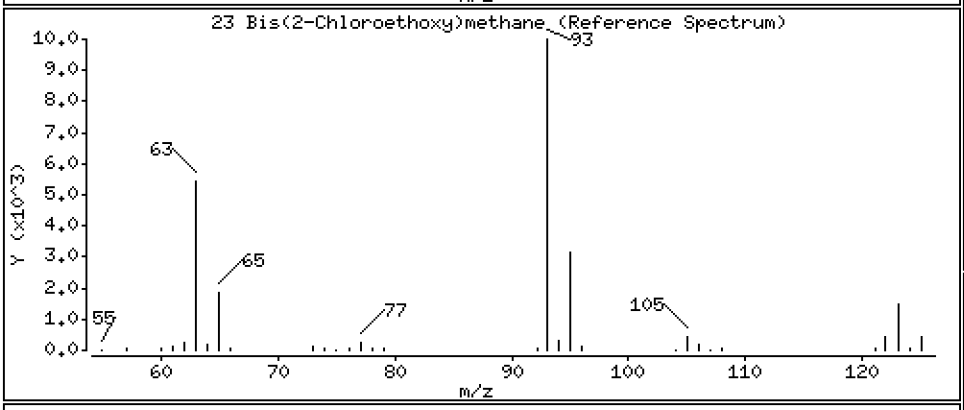
Concentration: 0.009161 ug/mL

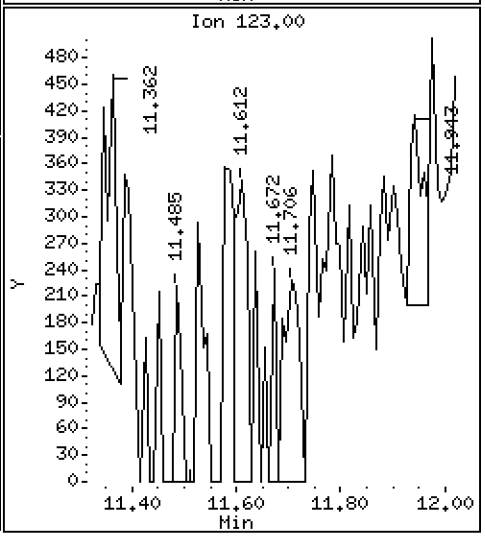


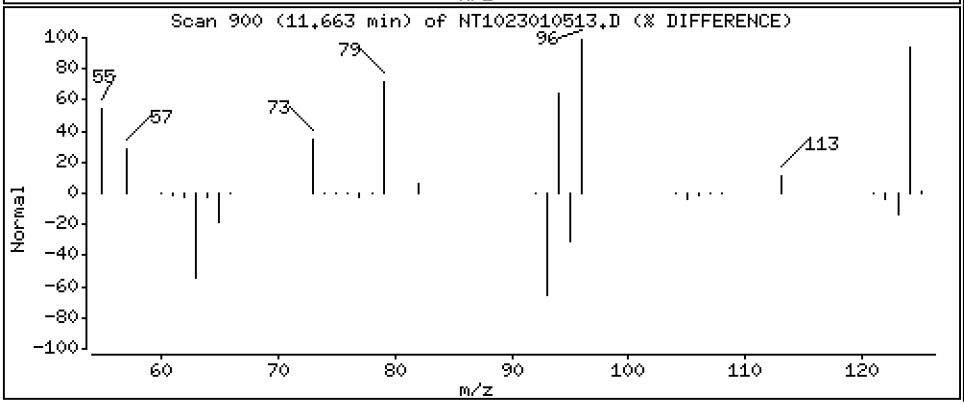












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

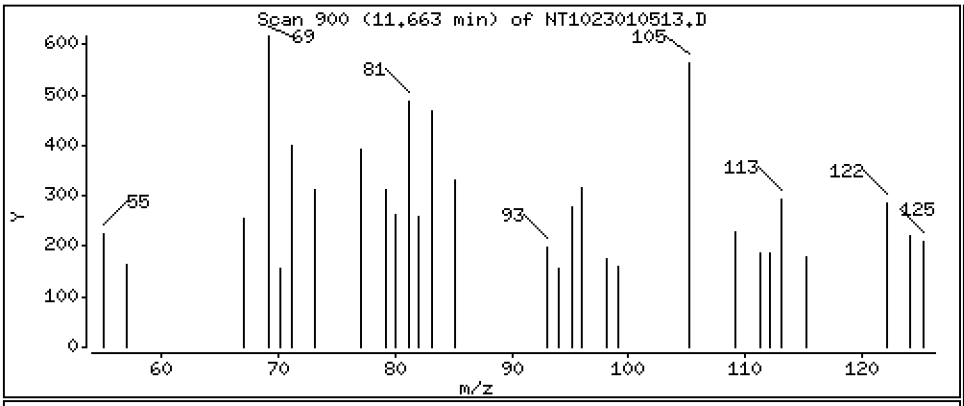
Operator: VTS

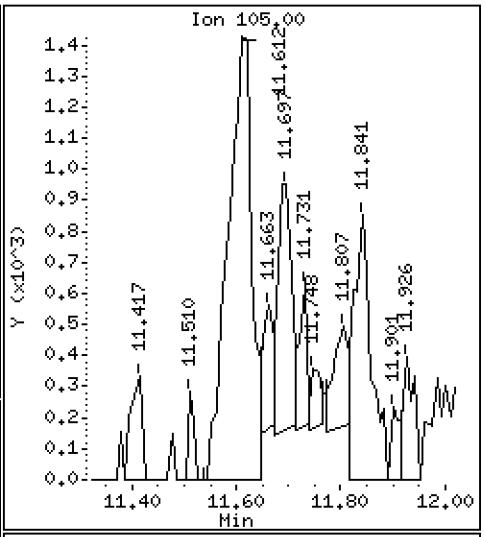
Column phase: ZB-5msi

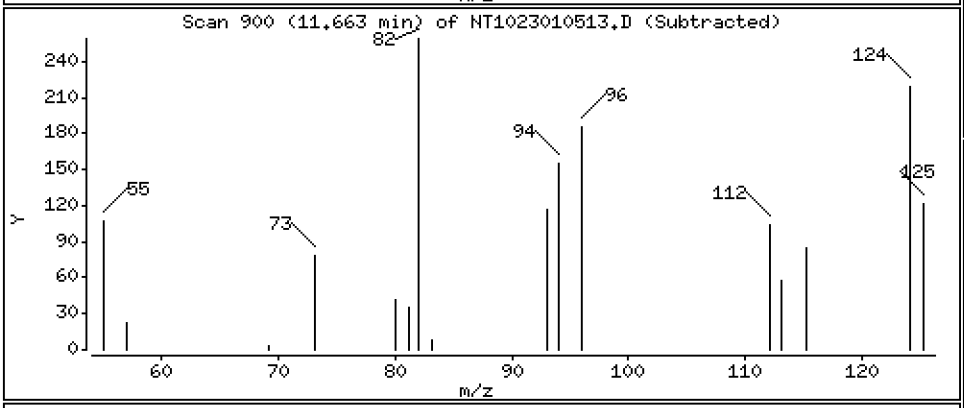
Column diameter: 0.25

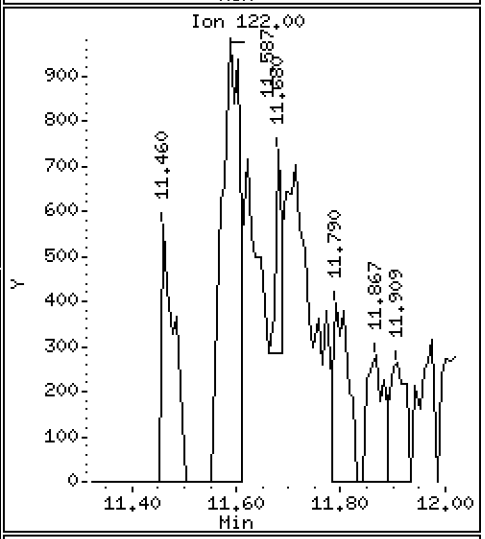
24 Benzoic acid

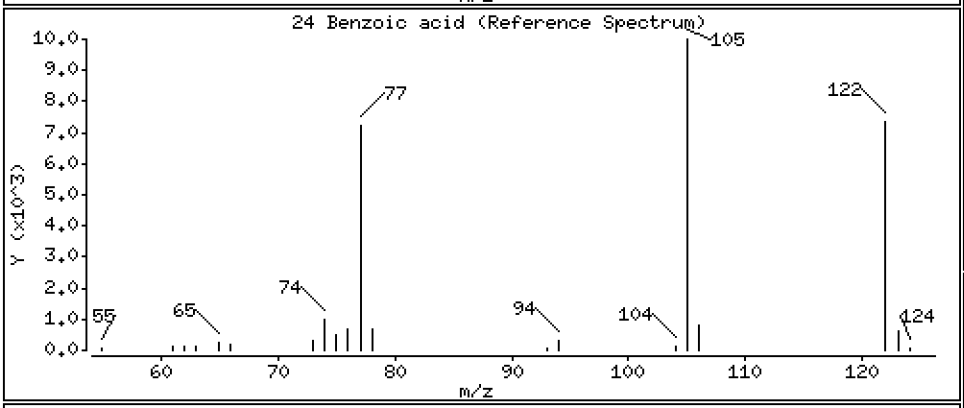
Concentration: 0.06466 ug/mL

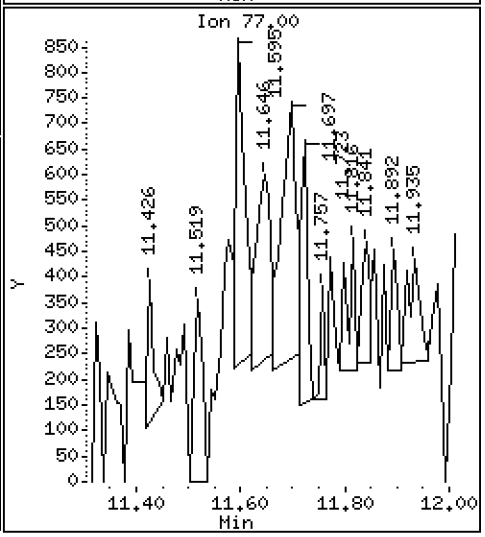


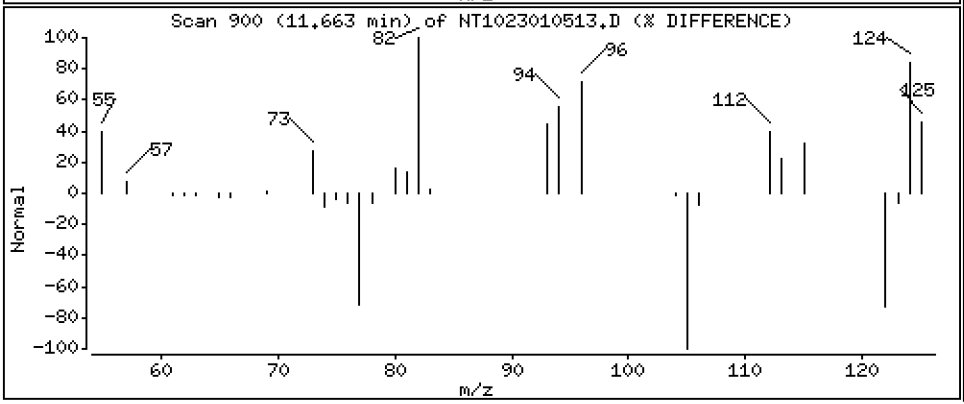












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

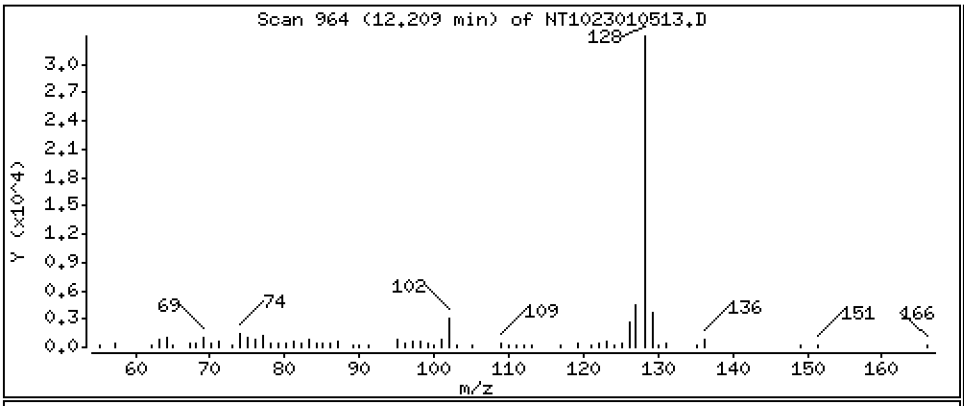
Operator: VTS

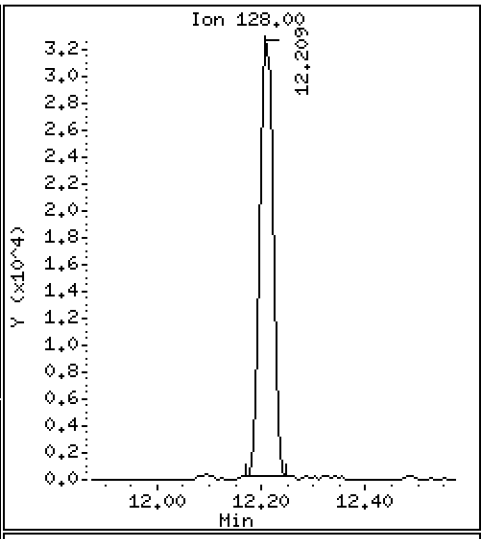
Column phase: ZB-5msi

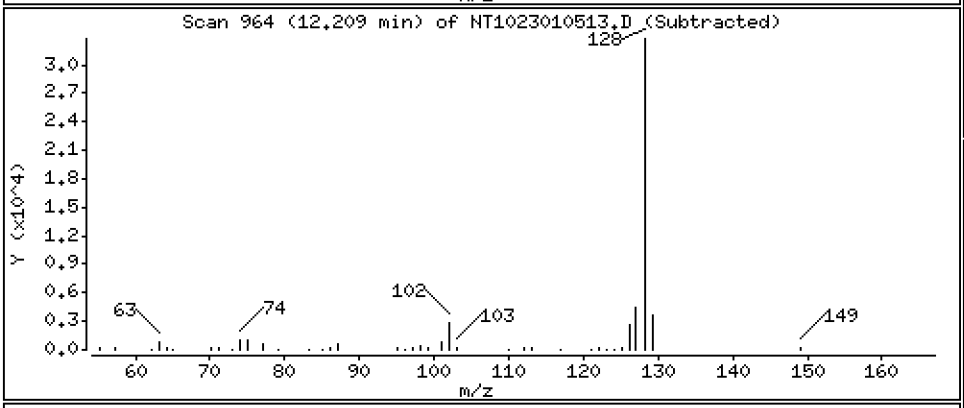
Column diameter: 0.25

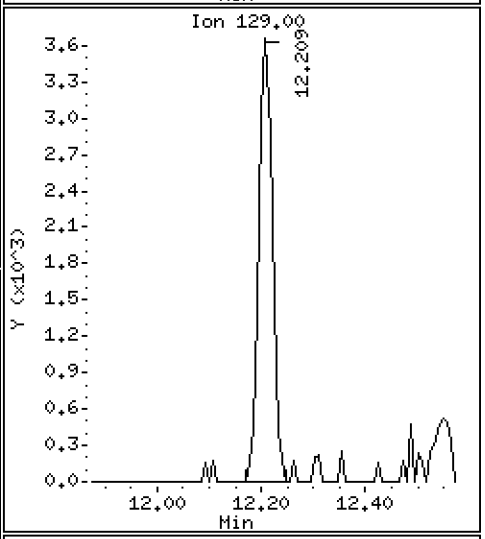
28 Naphthalene

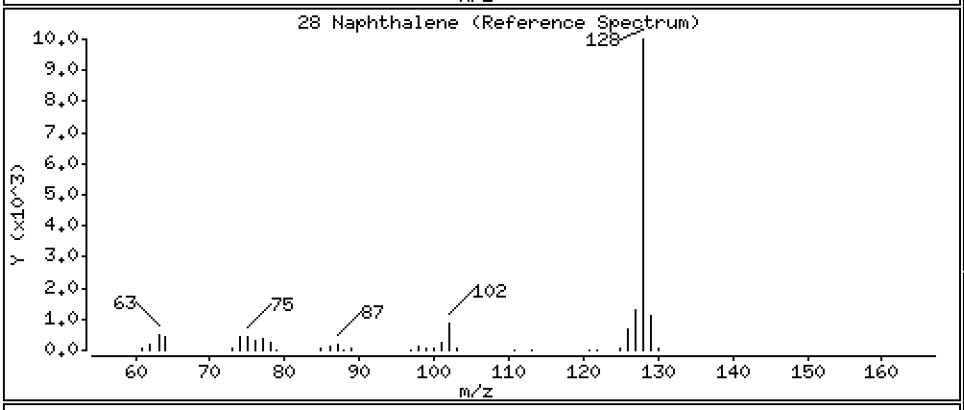
Concentration: 0.7915 ug/mL

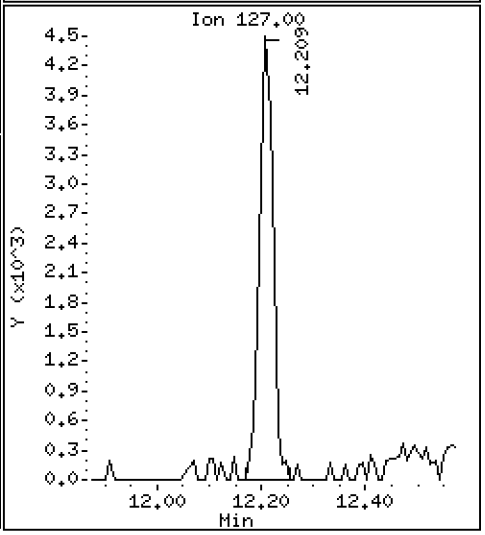


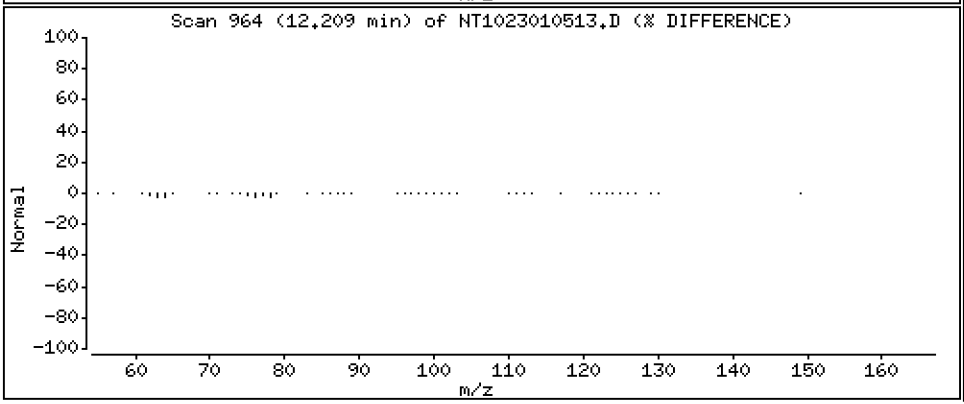












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

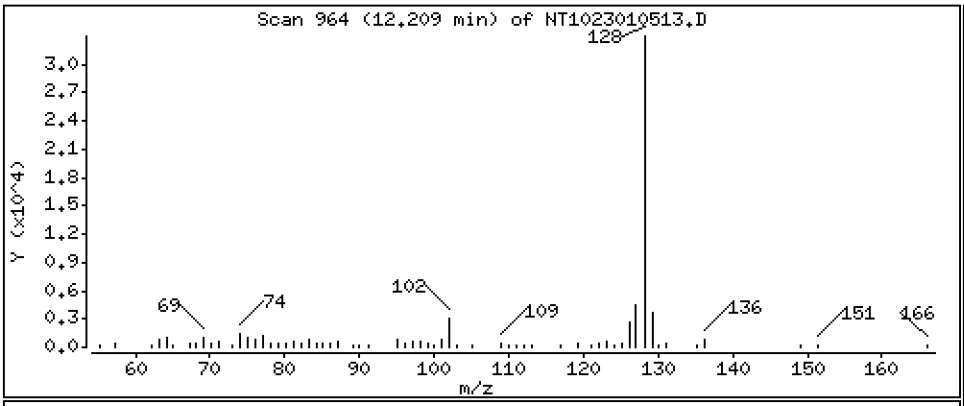
Operator: VTS

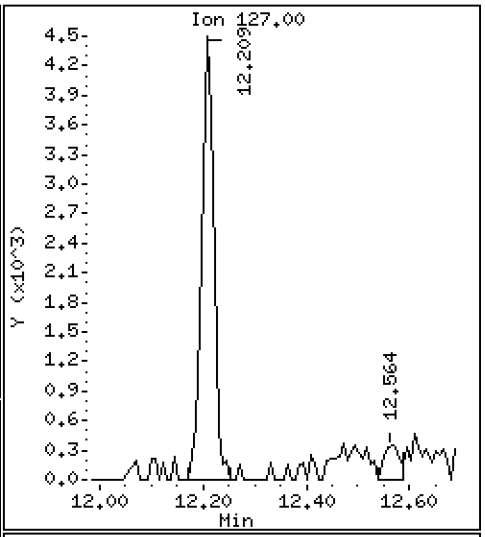
Column phase: ZB-5msi

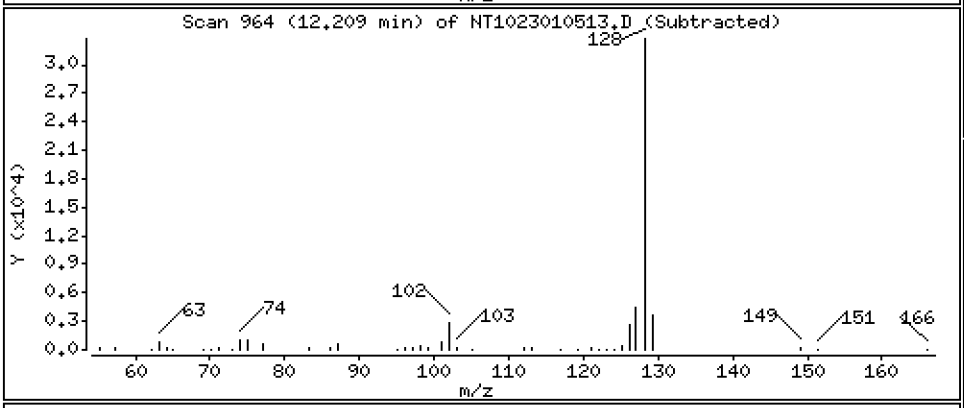
Column diameter: 0.25

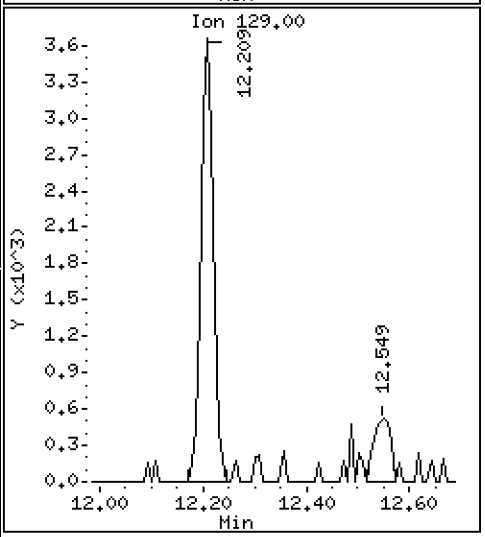
29 4-Chloroaniline

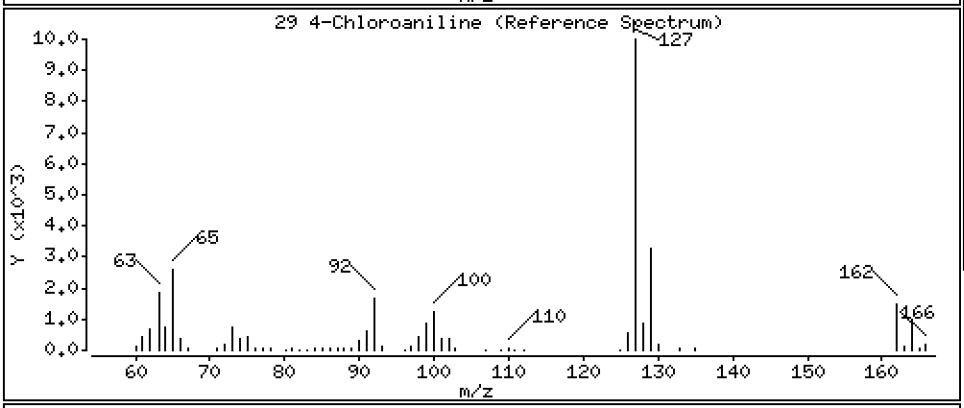
Concentration: 0.2931 ug/mL

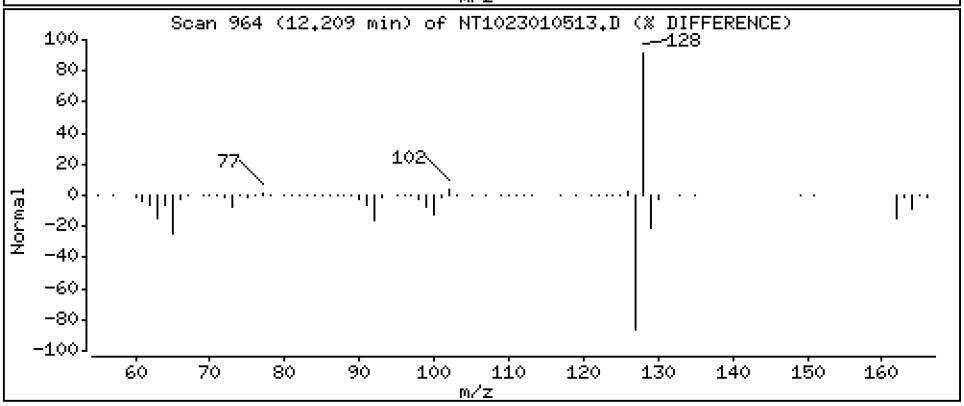












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

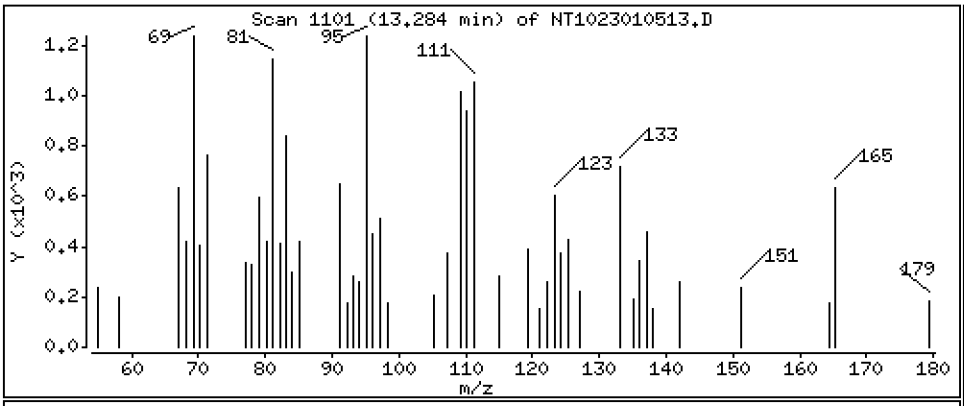
Operator: VTS

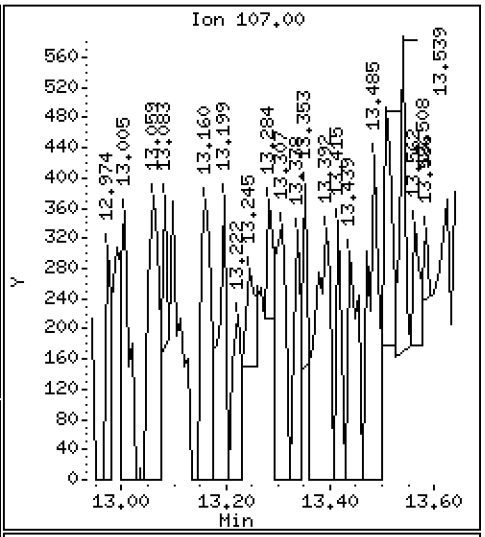
Column phase: ZB-5msi

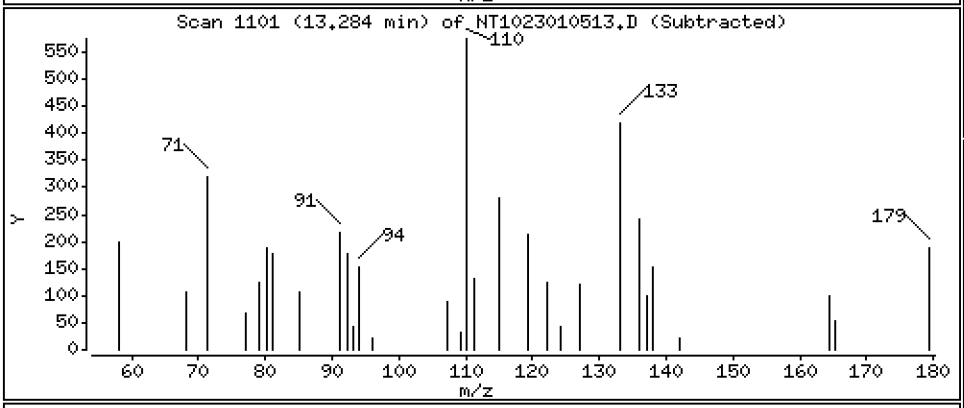
Column diameter: 0.25

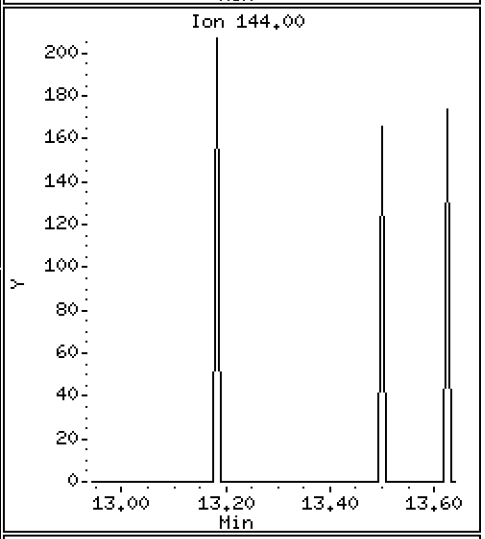
31 4-Chloro-3-methylphenol

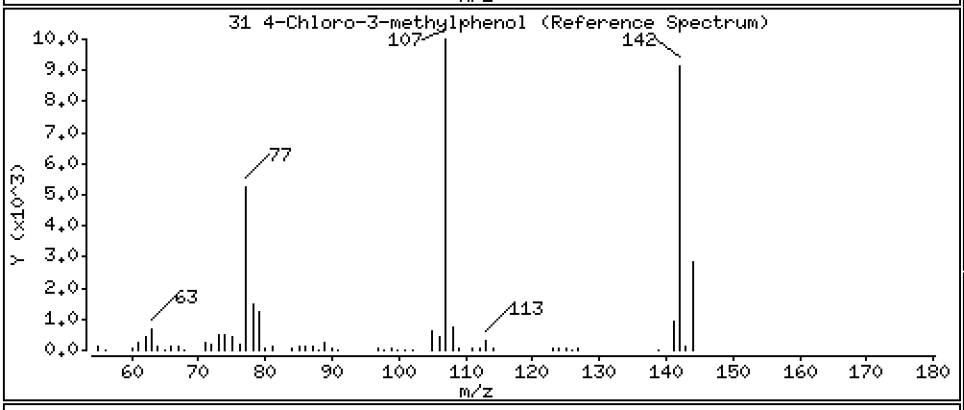
Concentration: 0.005714 ug/mL

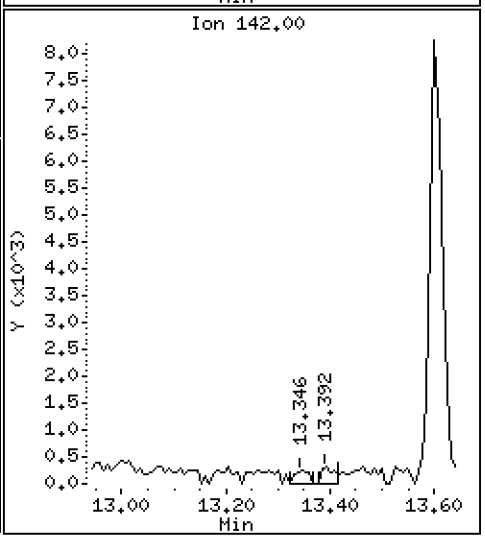


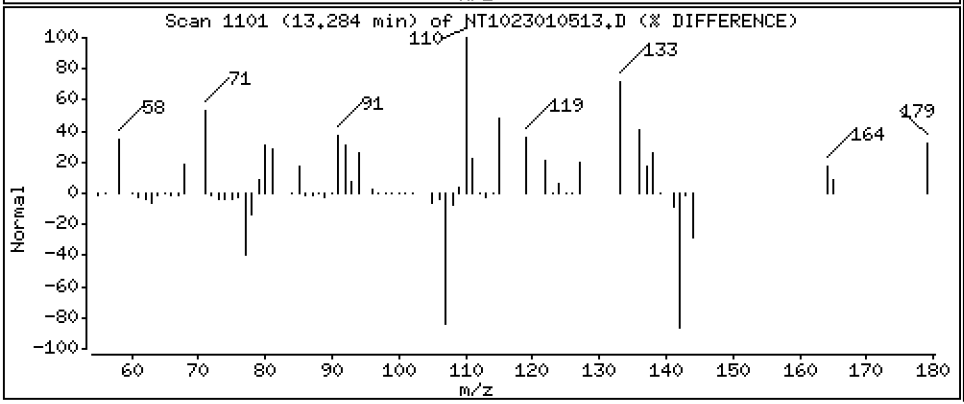












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

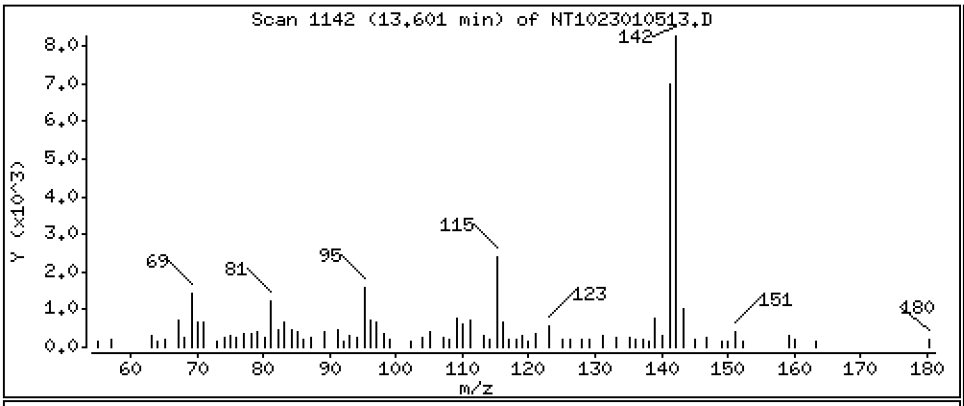
Operator: VTS

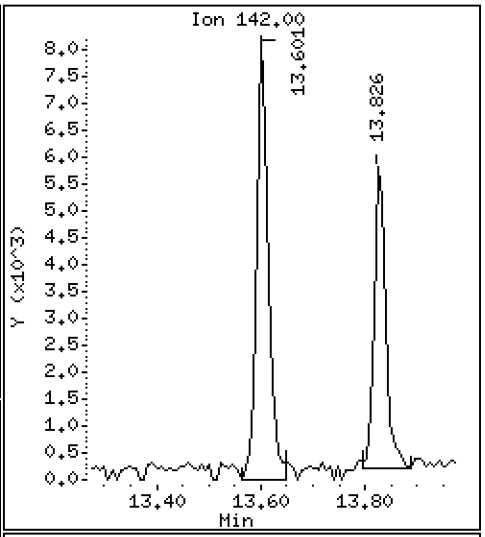
Column phase: ZB-5msi

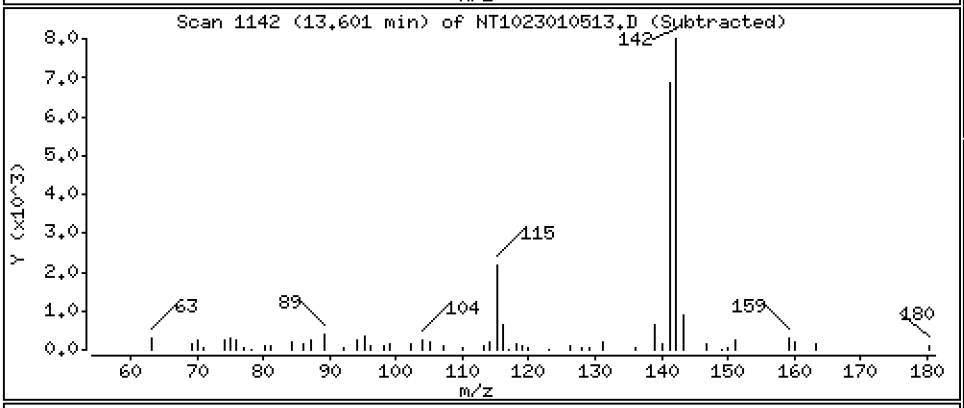
Column diameter: 0.25

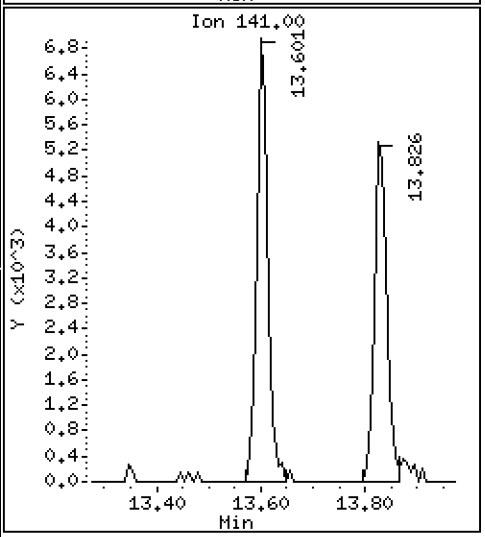
32 2-Methylnaphthalene

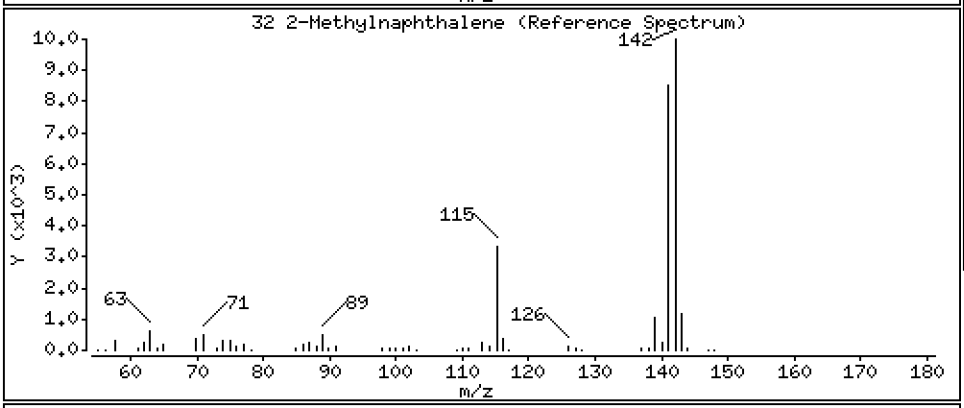
Concentration: 0.2447 ug/mL

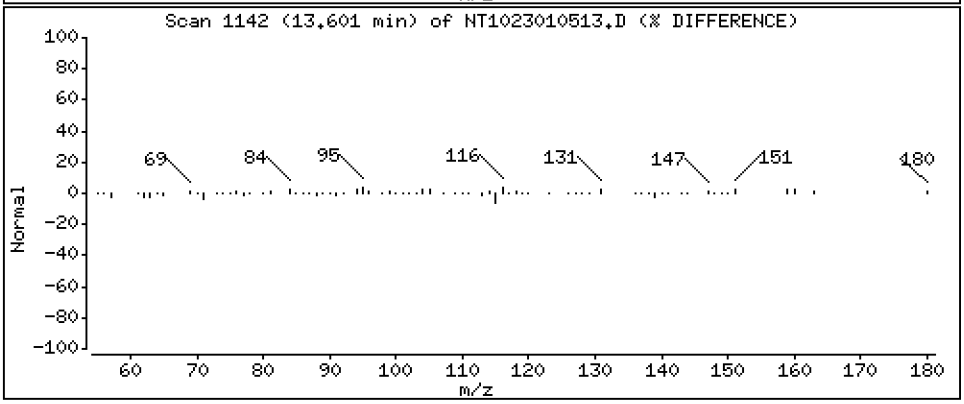












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

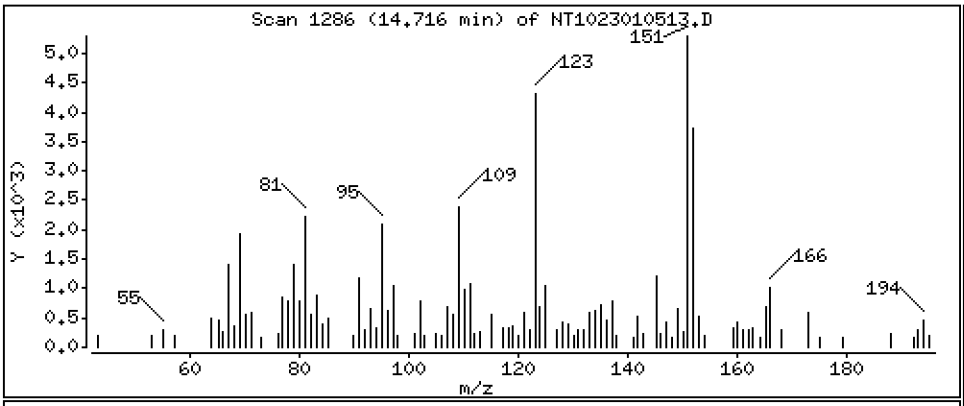
Operator: VTS

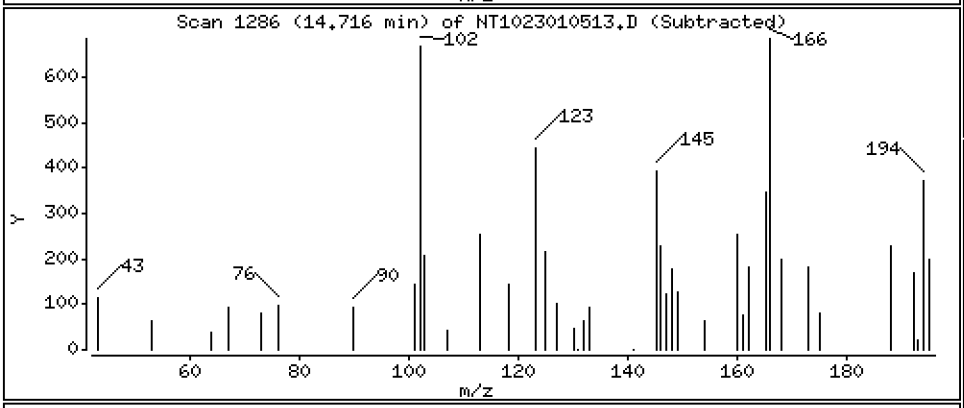
Column phase: ZB-5msi

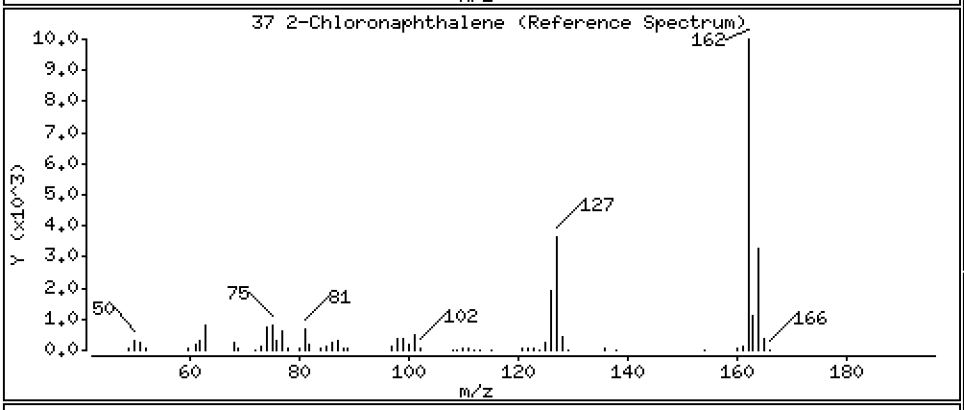
Column diameter: 0.25

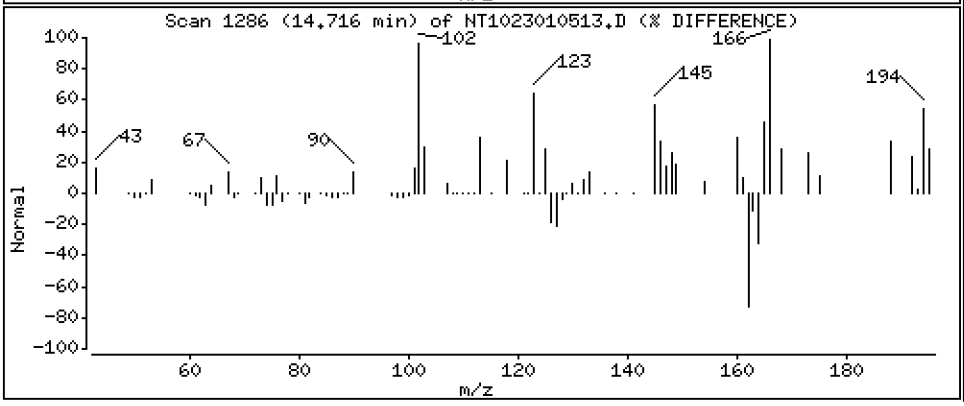
37 2-Chloronaphthalene

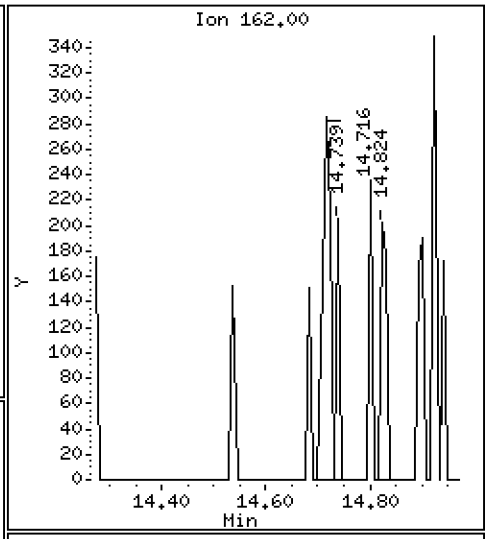
Concentration: 0.007704 ug/mL

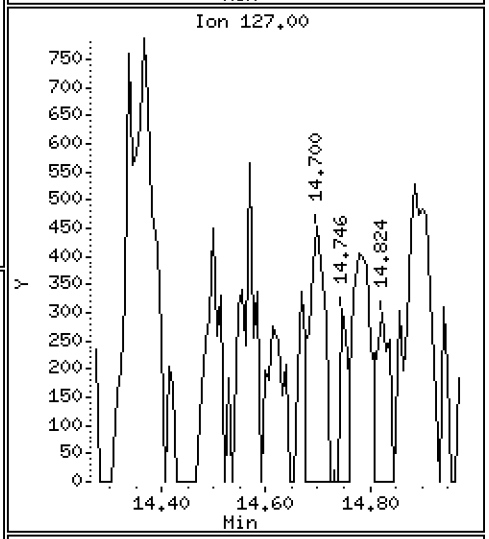


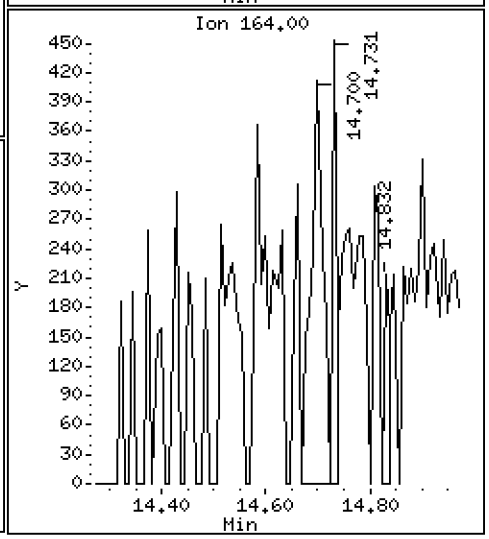












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

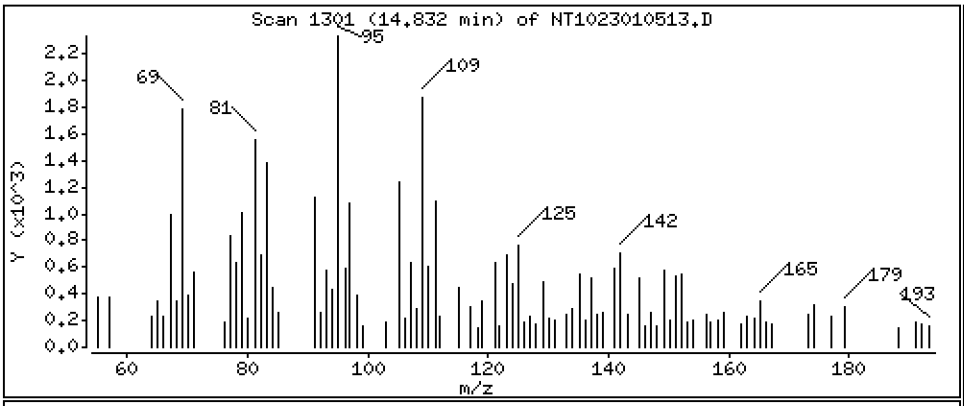
Operator: VTS

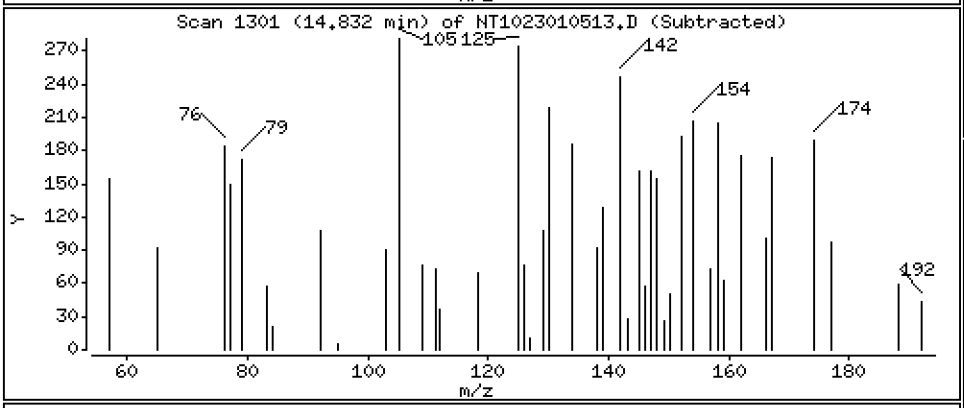
Column phase: ZB-5msi

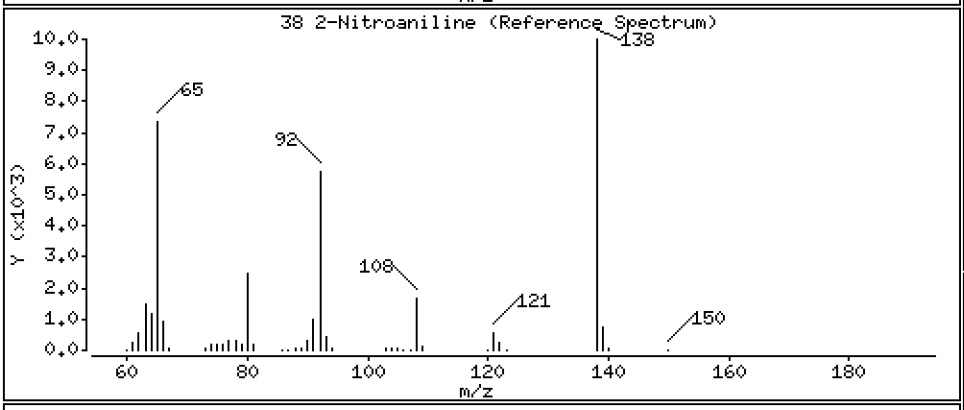
Column diameter: 0.25

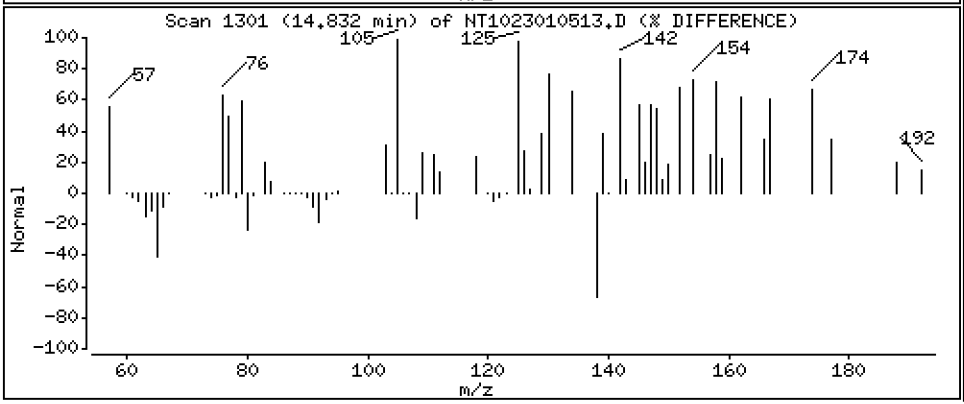
38 2-Nitroaniline

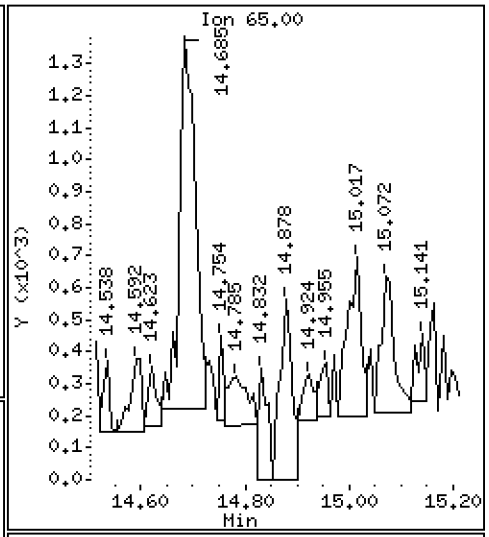
Concentration: 0.08880 ug/mL

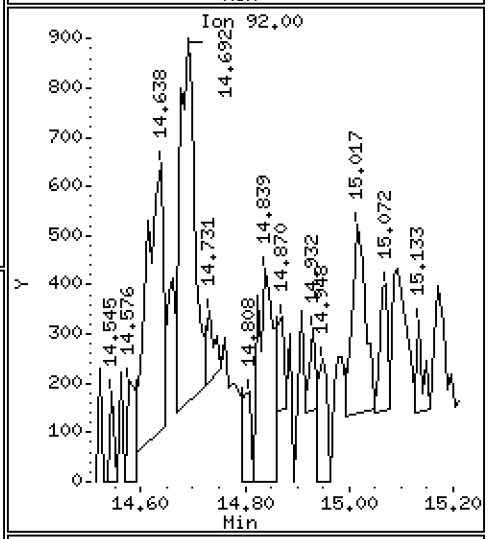


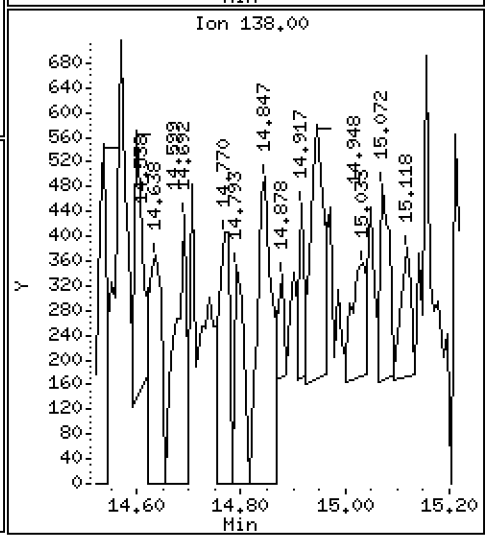












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

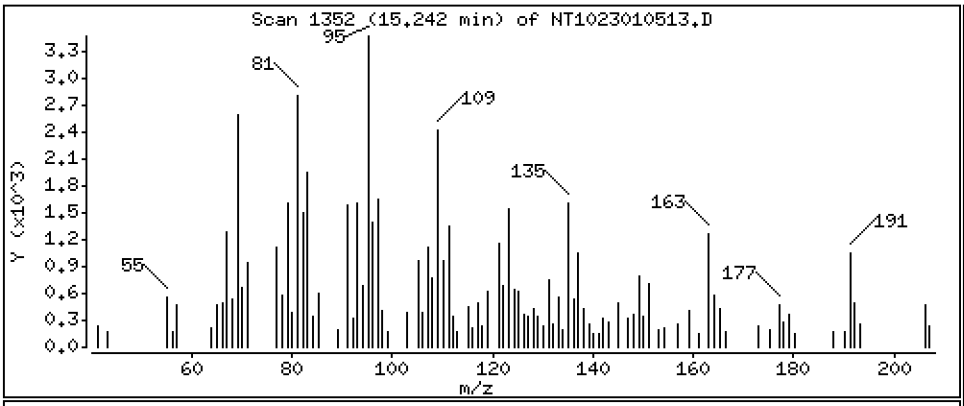
Operator: VTS

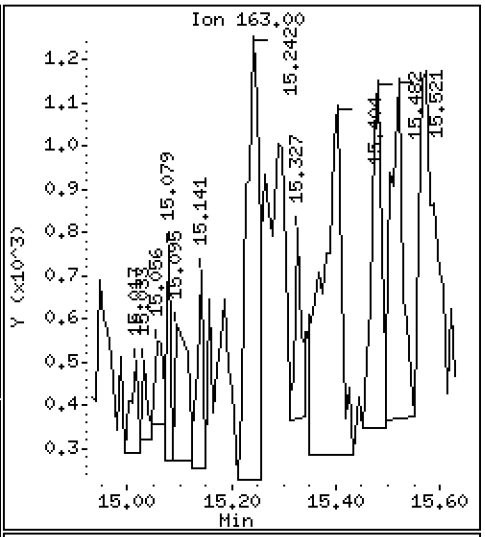
Column phase: ZB-5msi

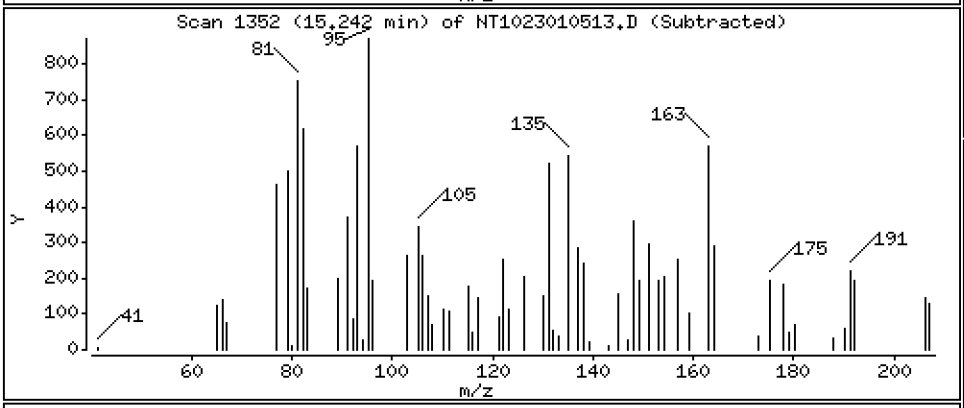
Column diameter: 0.25

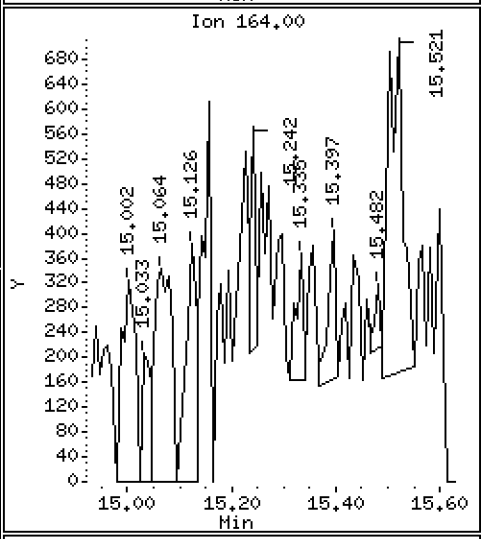
39 Dimethylphthalate

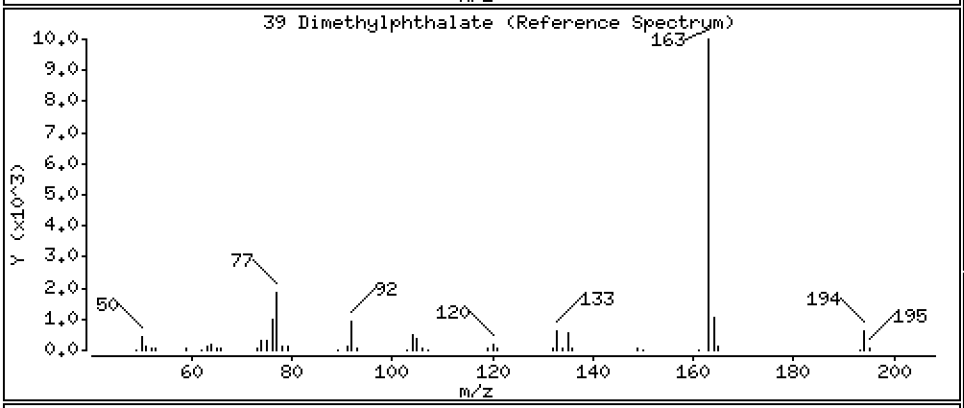
Concentration: 0.05222 ug/mL

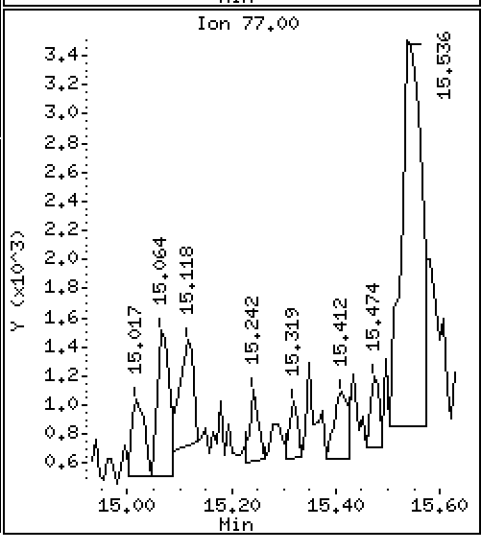


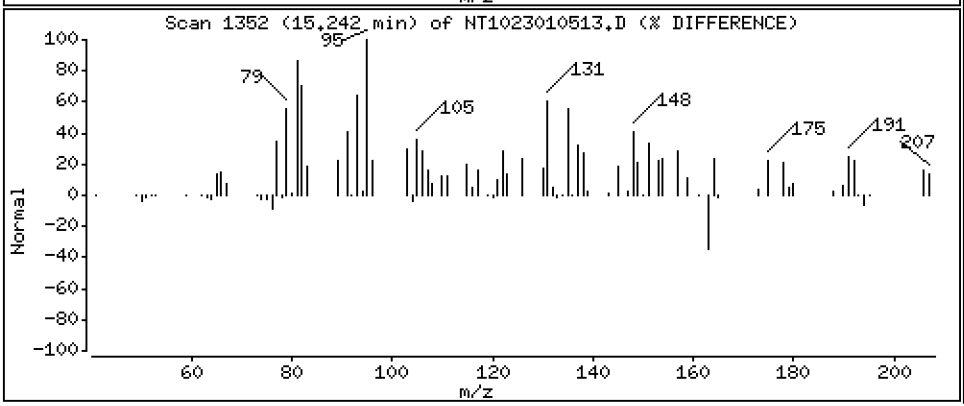












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

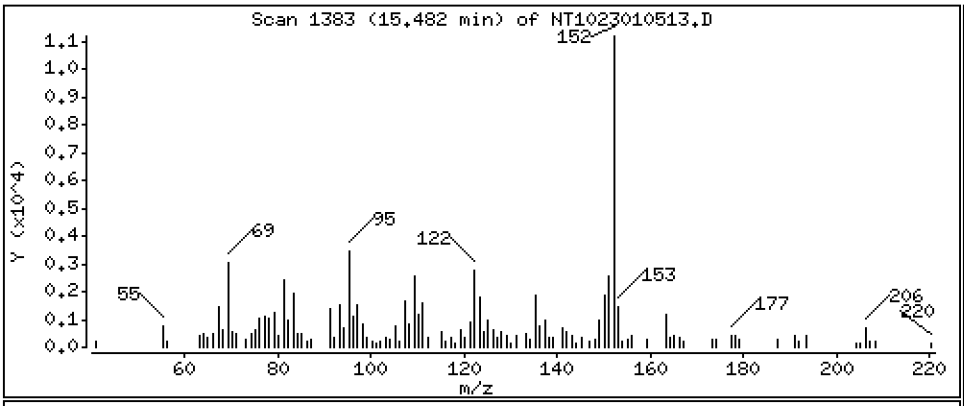
Operator: VTS

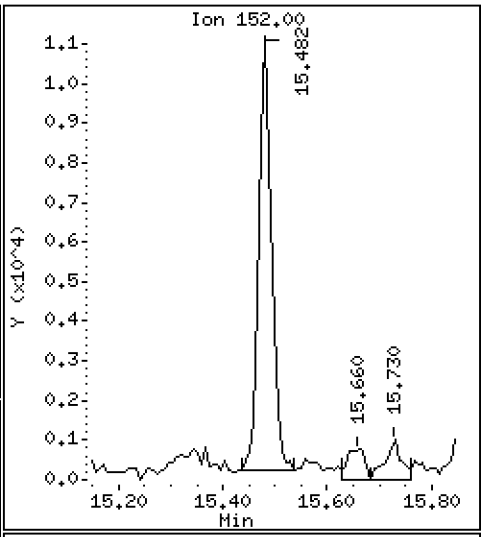
Column phase: ZB-5msi

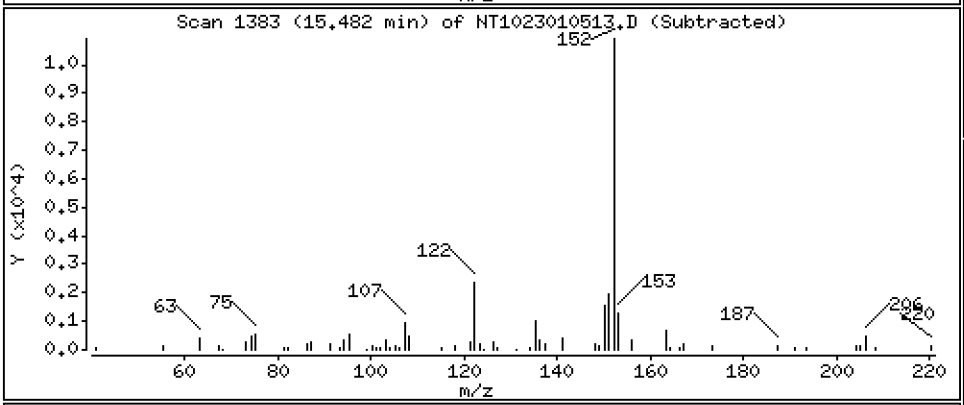
Column diameter: 0.25

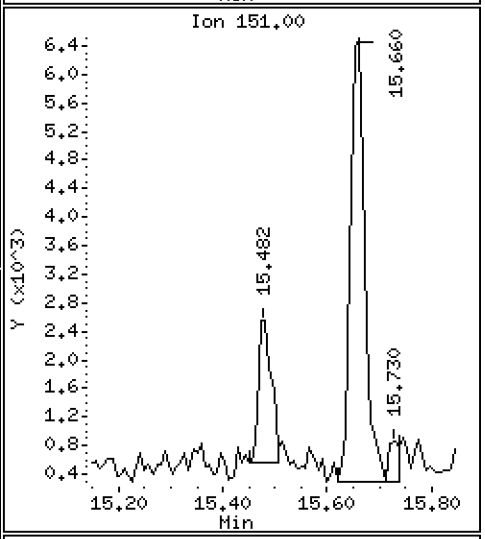
40 Acenaphthylene

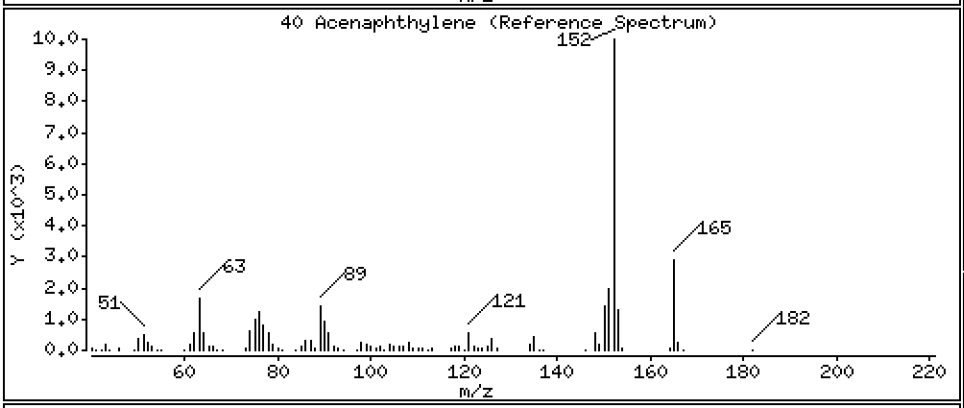
Concentration: 0.3259 ug/mL

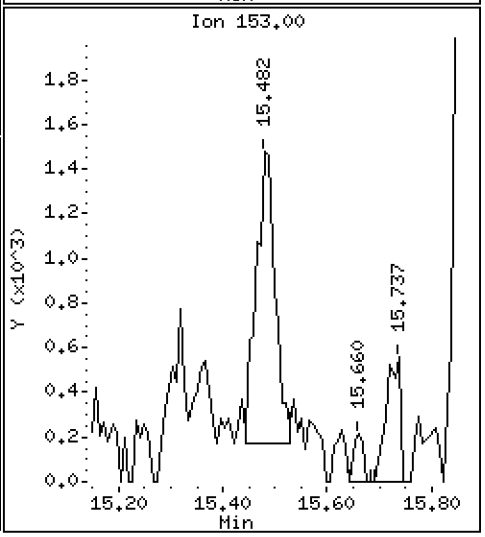


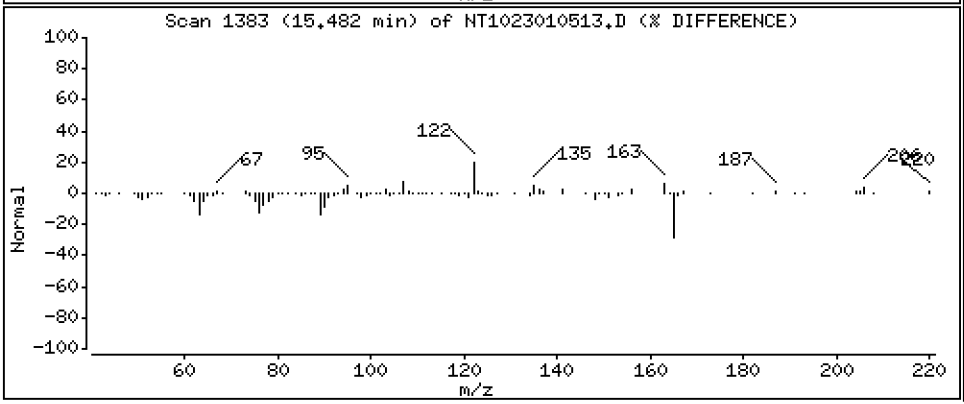












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010513.D

Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

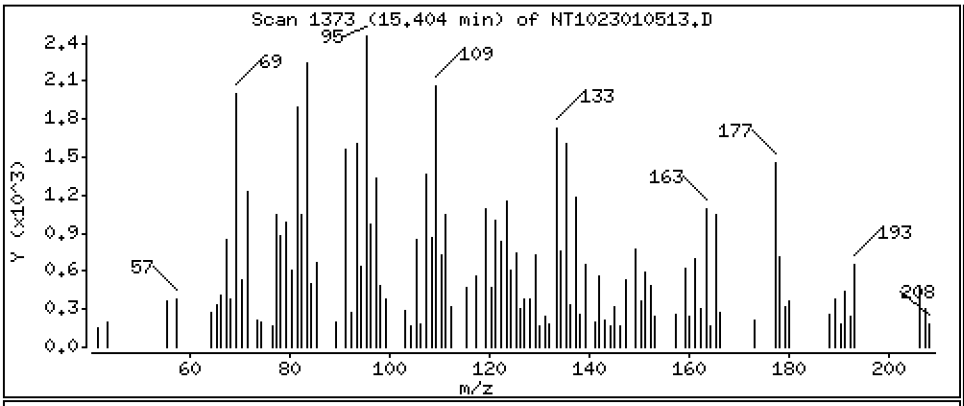
Operator: VTS

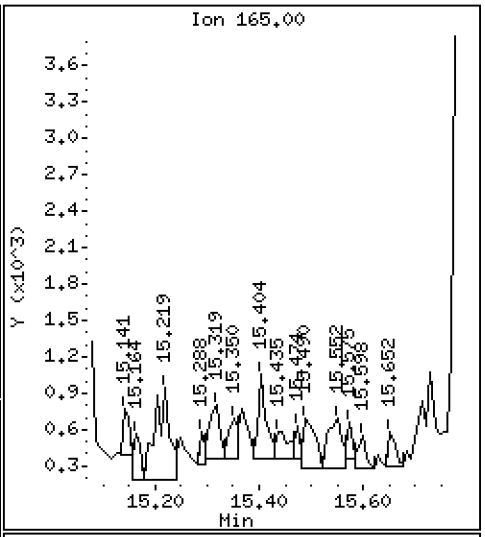
Column phase: ZB-5msi

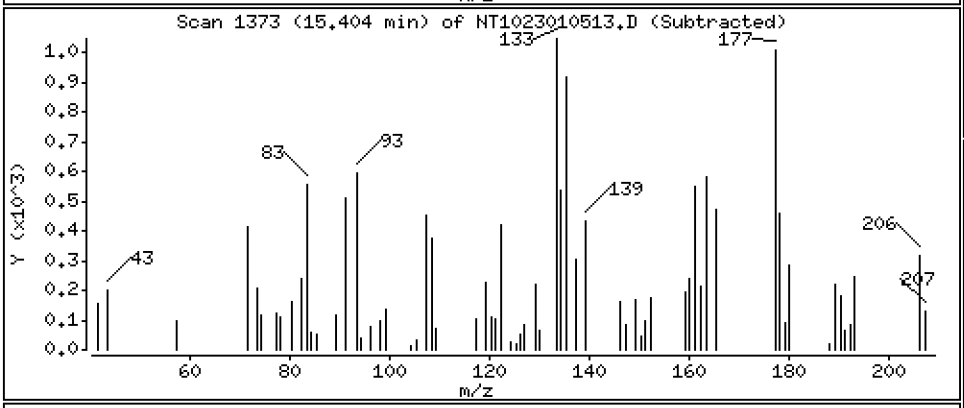
Column diameter: 0.25

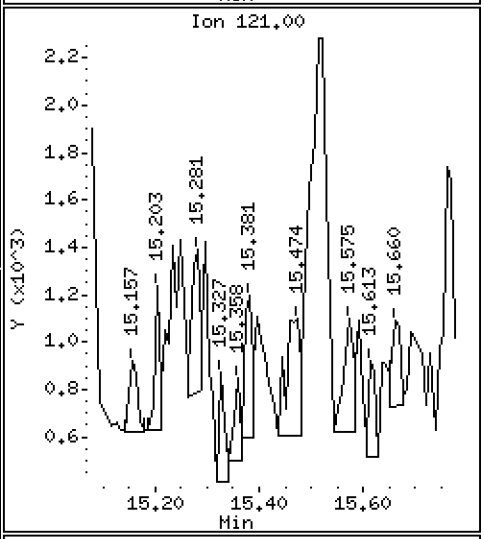
41 2,6-Dinitrotoluene

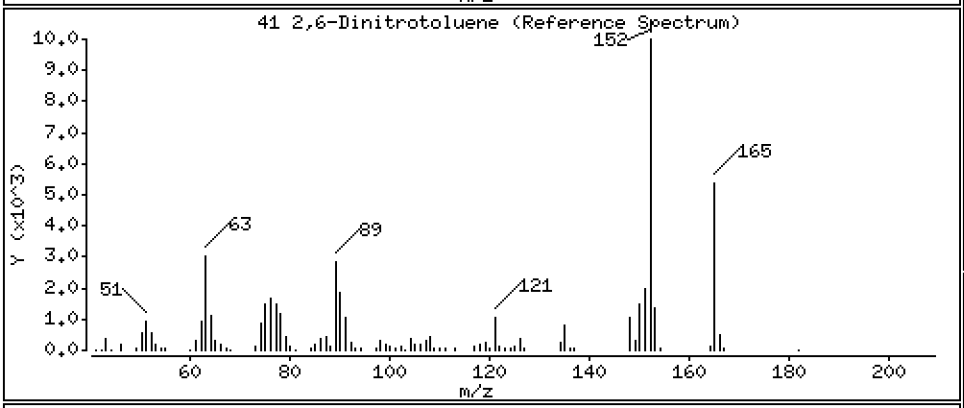
Concentration: 0.09319 ug/mL

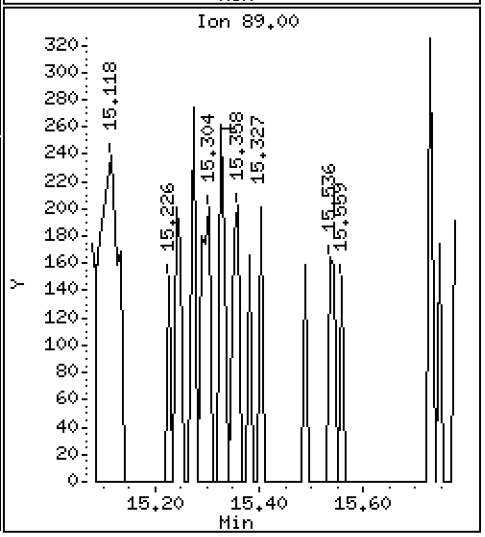


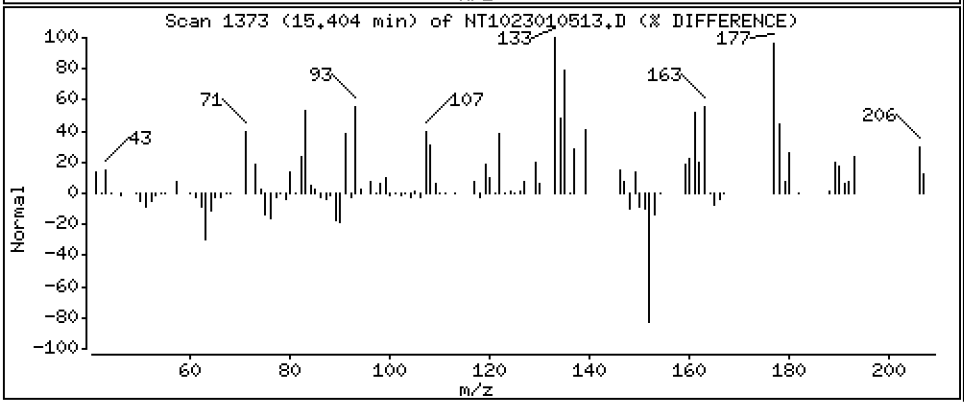












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

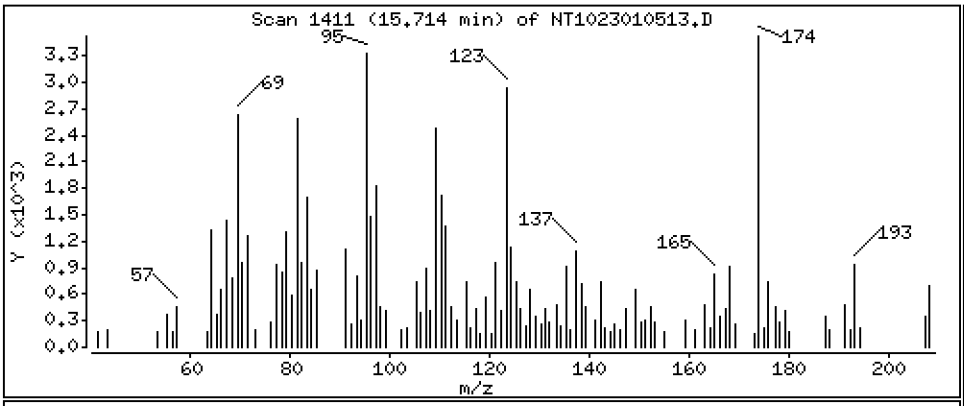
Operator: VTS

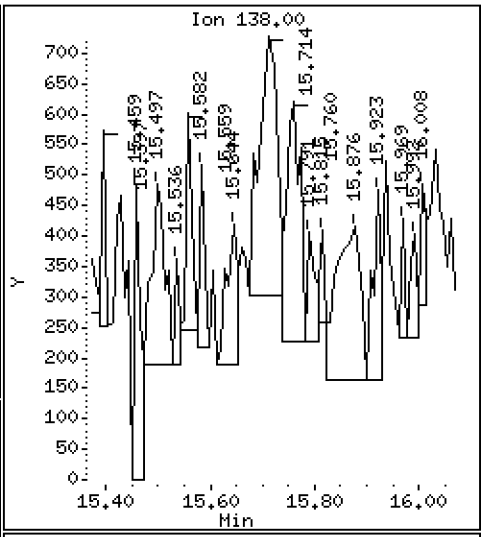
Column phase: ZB-5msi

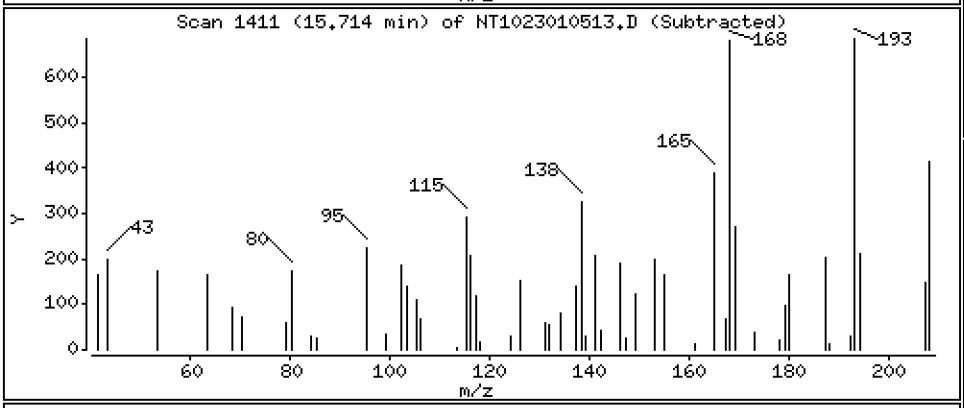
Column diameter: 0.25

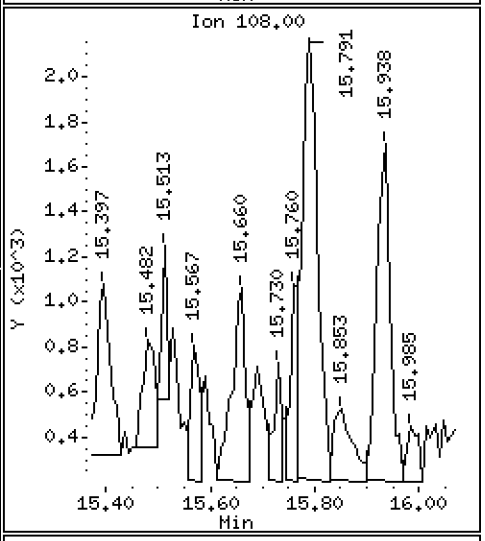
43 3-Nitroaniline

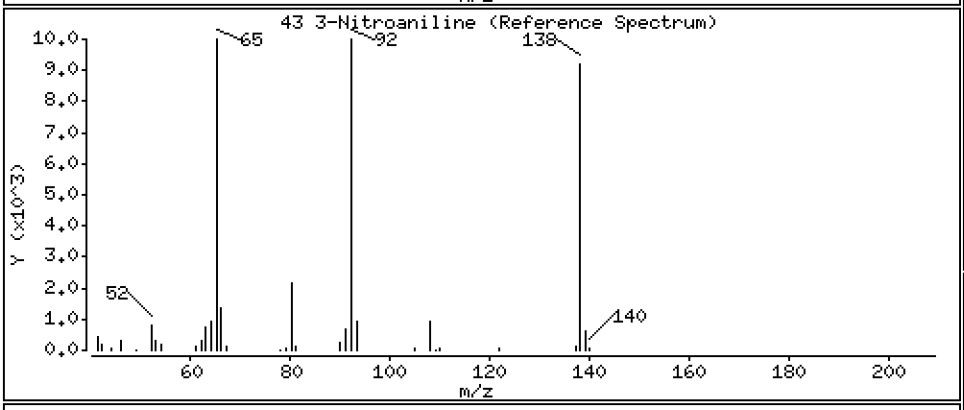
Concentration: 0.1709 ug/mL

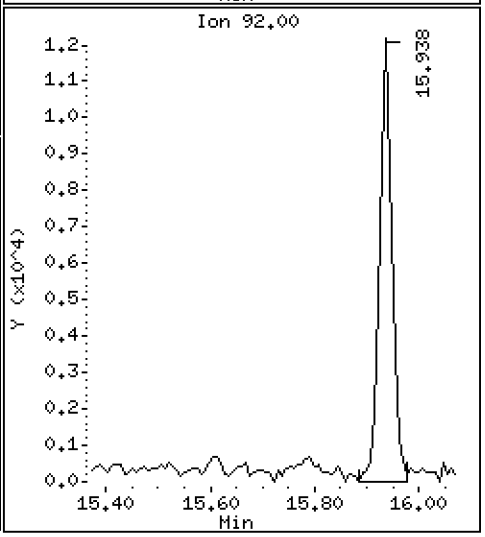


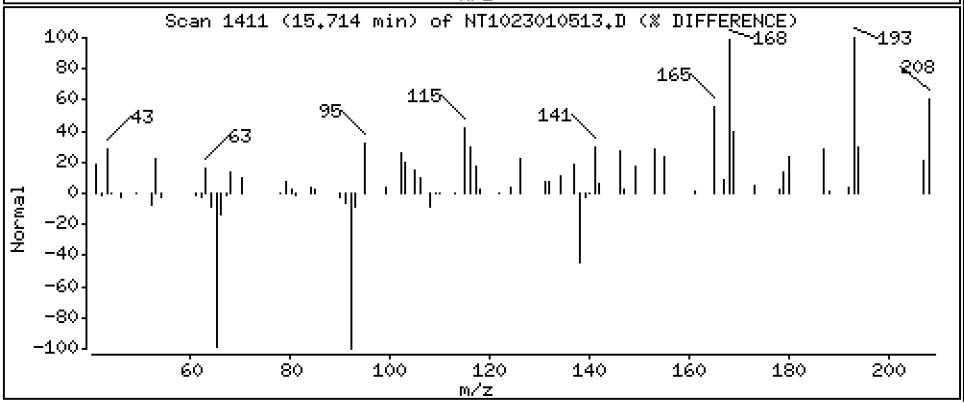












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

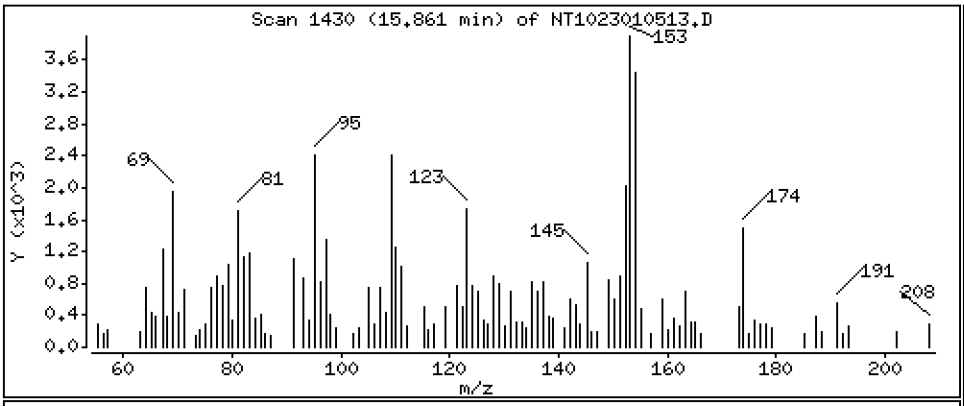
Operator: VTS

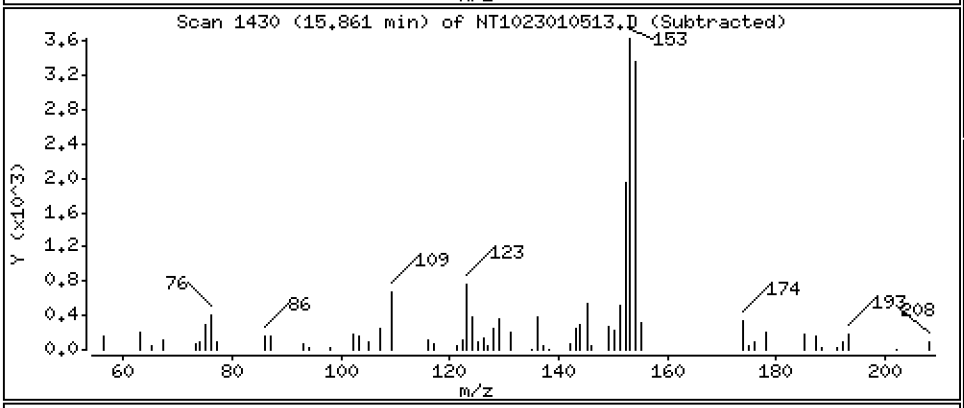
Column phase: ZB-5msi

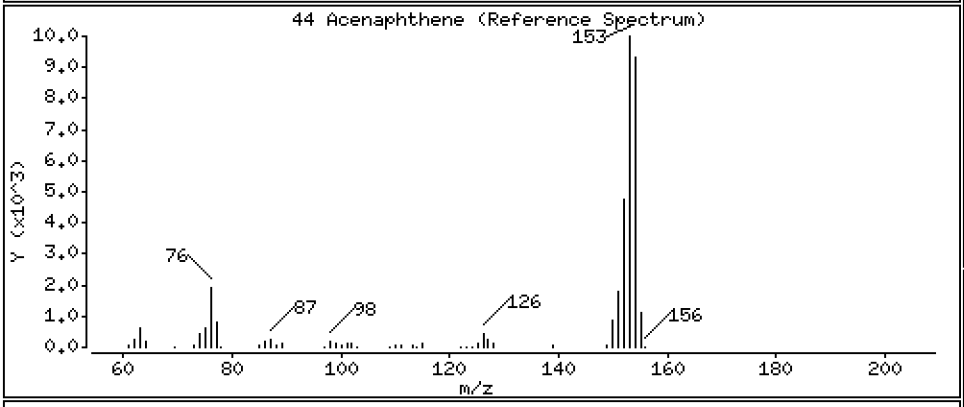
Column diameter: 0.25

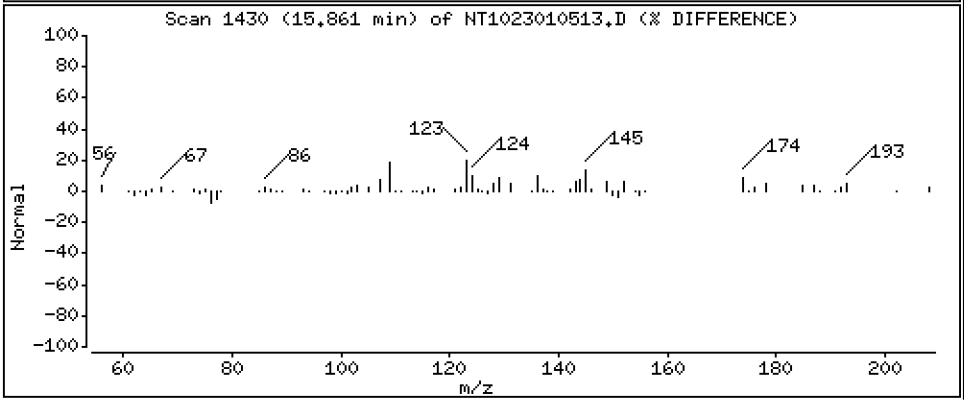
44 Acenaphthene

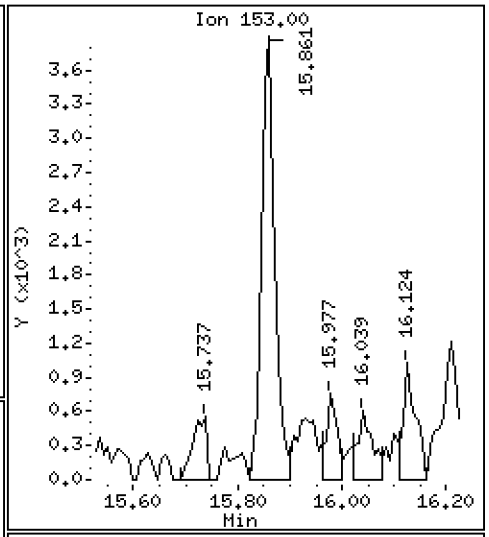
Concentration: 0.2191 ug/mL

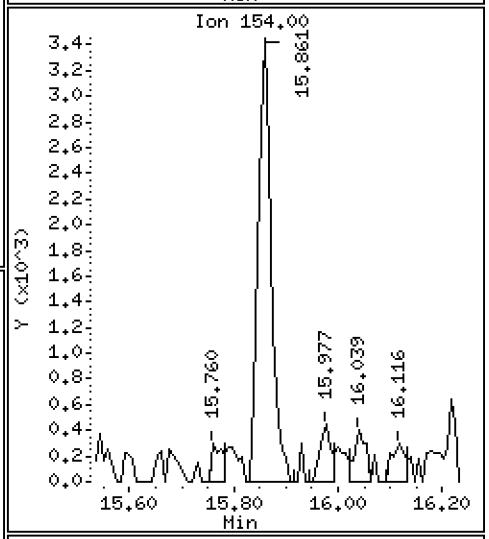


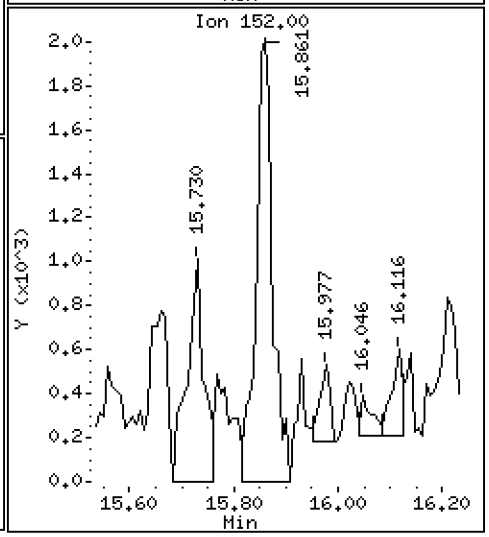












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

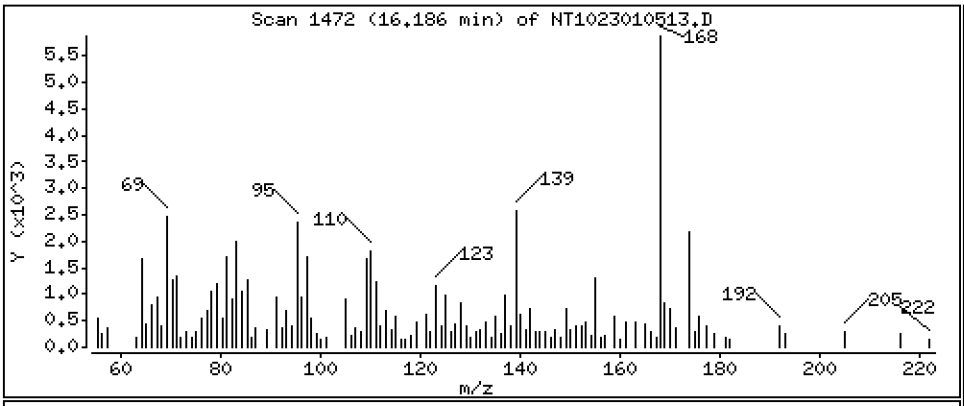
Operator: VTS

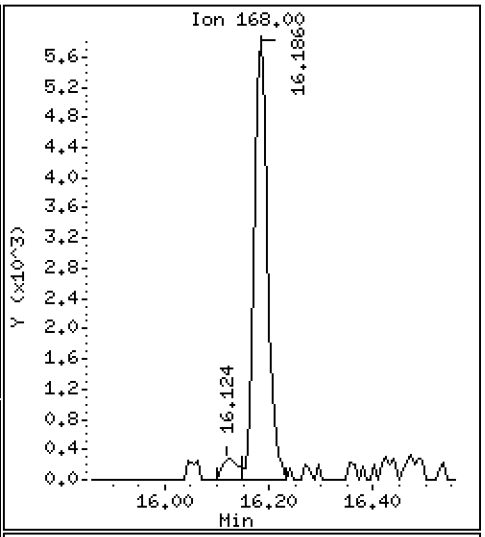
Column phase: ZB-5msi

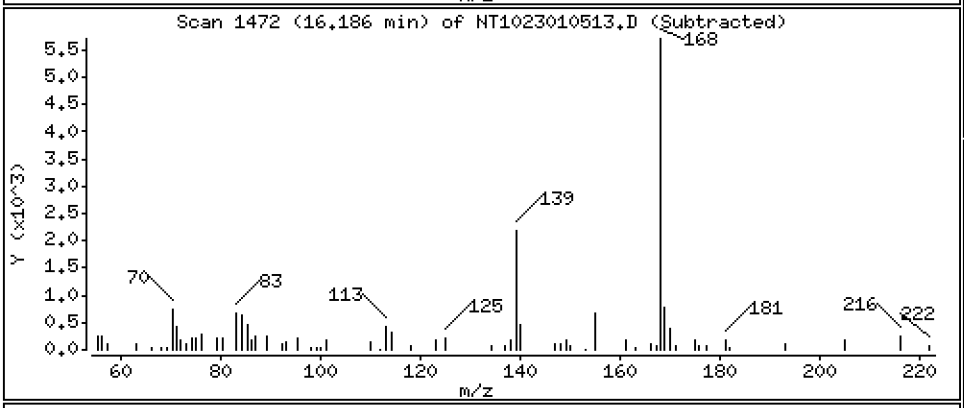
Column diameter: 0.25

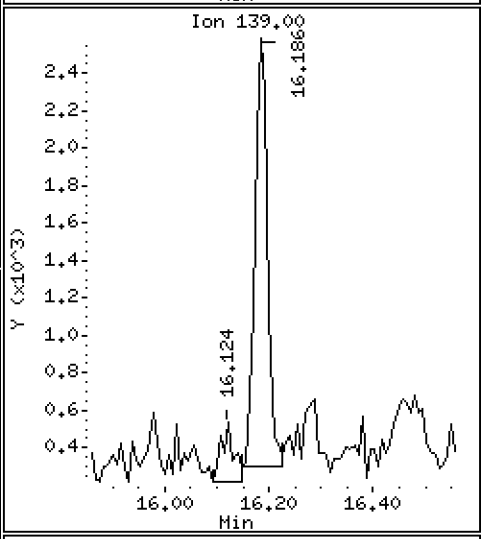
46 Dibenzofuran

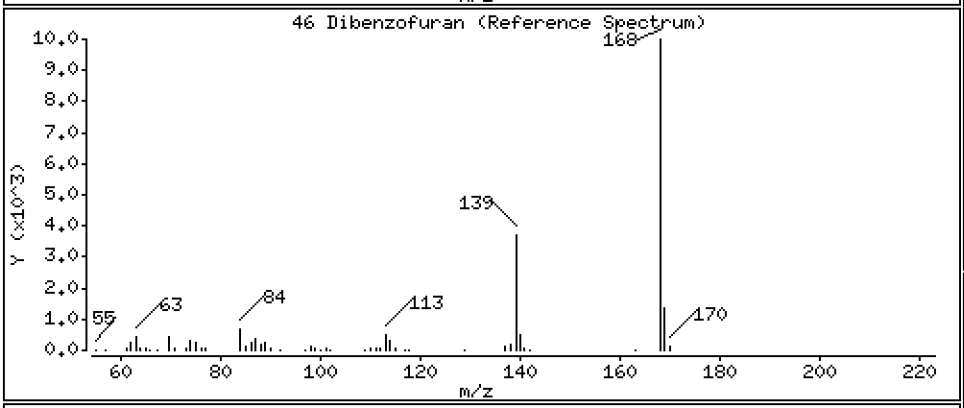
Concentration: 0.2264 ug/mL

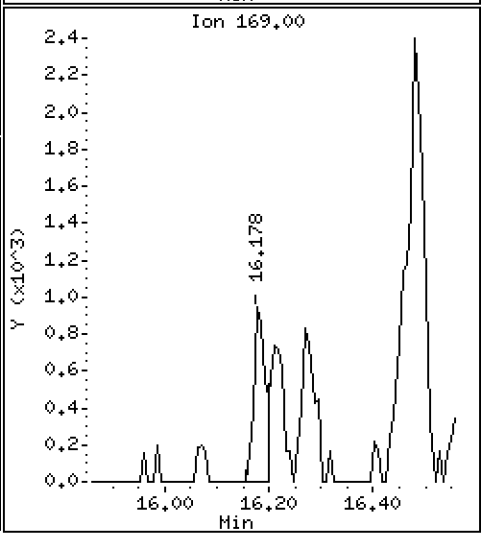


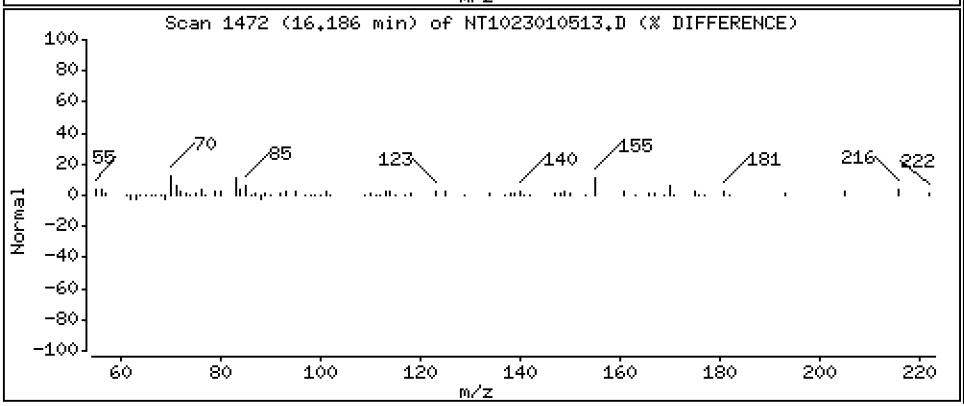












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

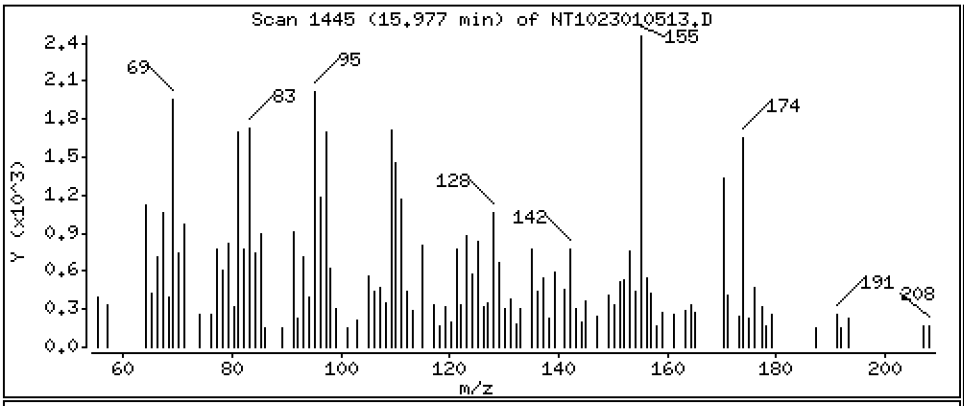
Operator: VTS

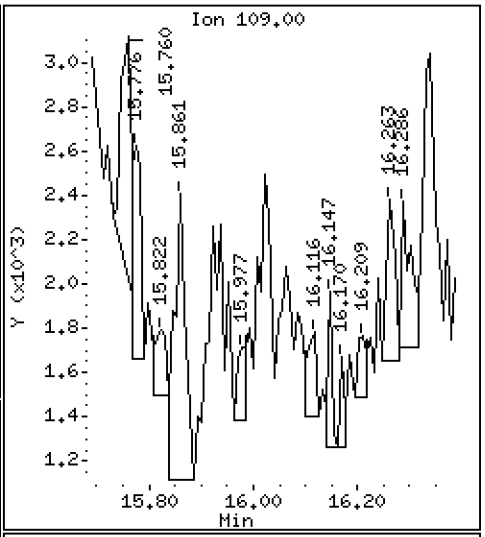
Column phase: ZB-5msi

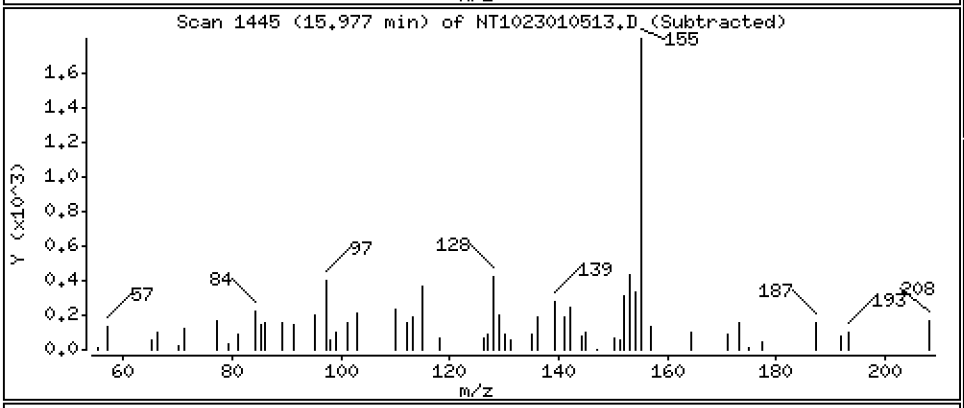
Column diameter: 0.25

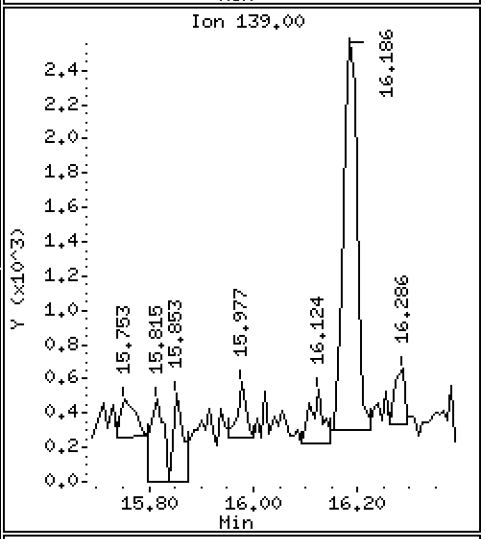
47 4-Nitrophenol

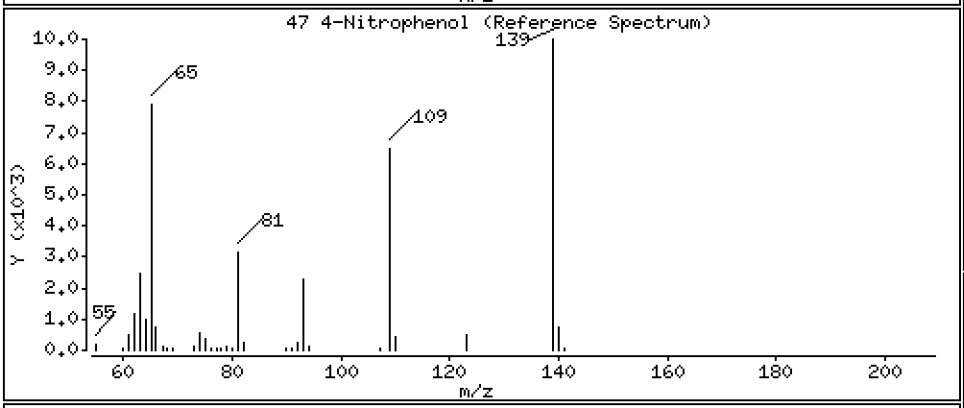
Concentration: 0.1020 ug/mL

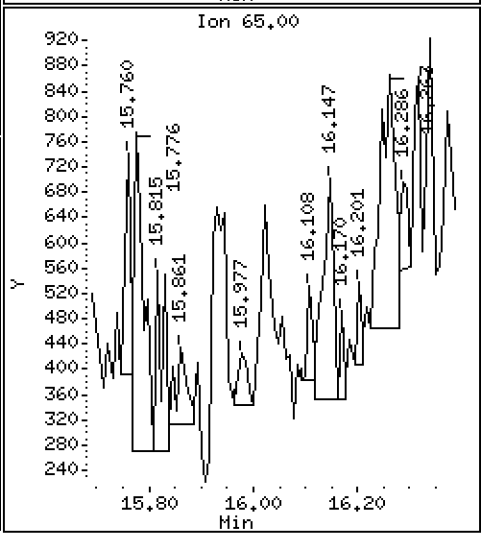


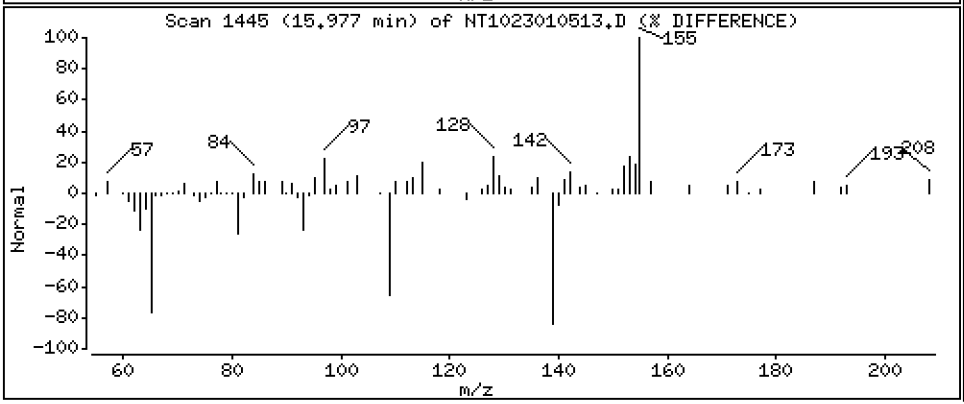












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

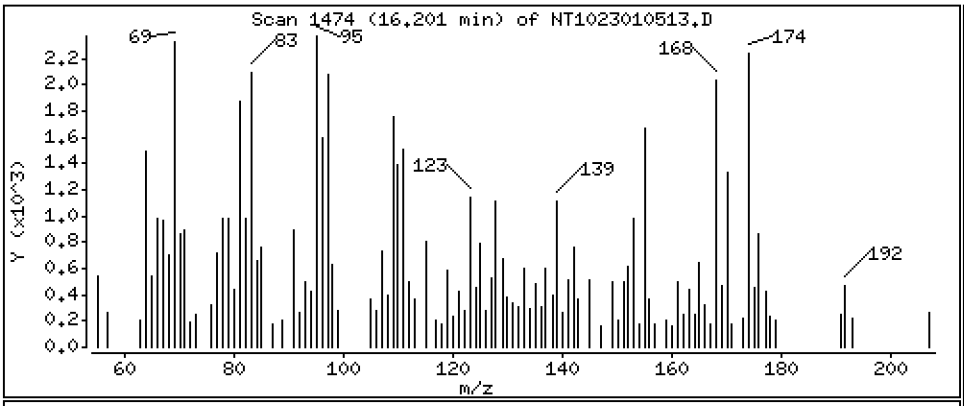
Operator: VTS

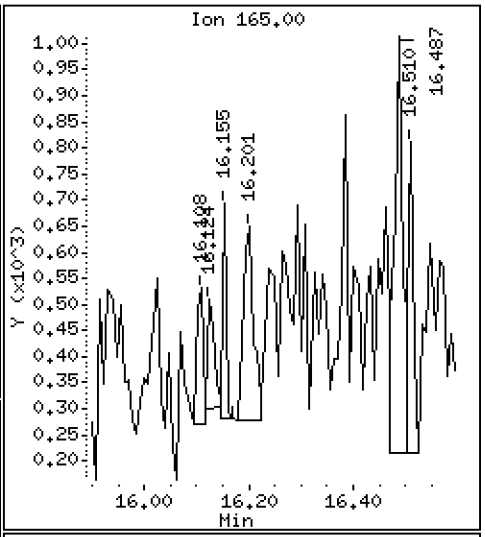
Column phase: ZB-5msi

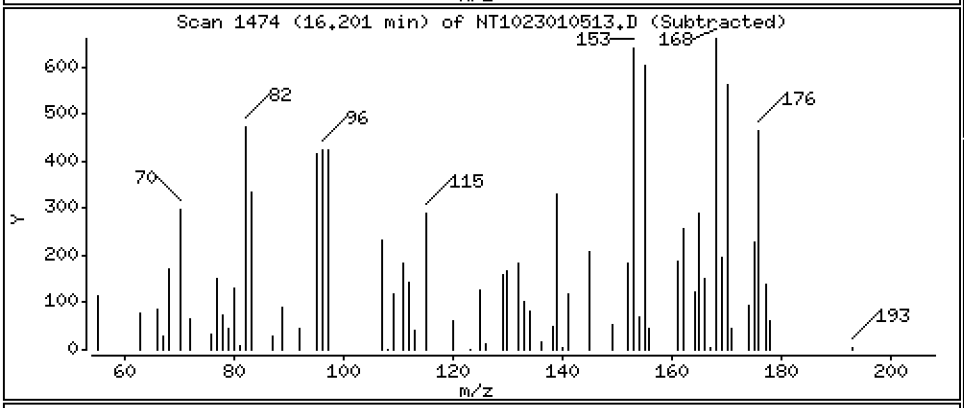
Column diameter: 0.25

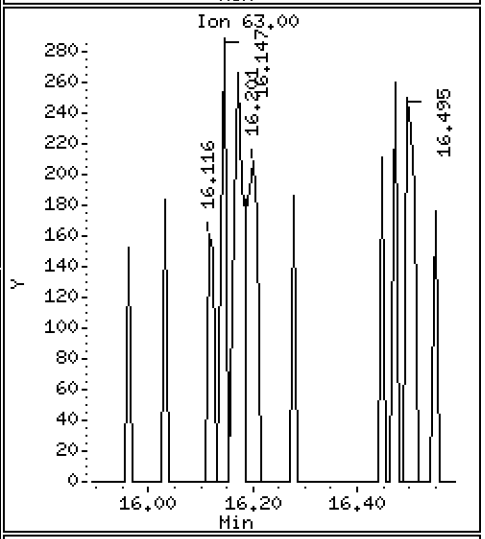
48 2,4-Dinitrotoluene

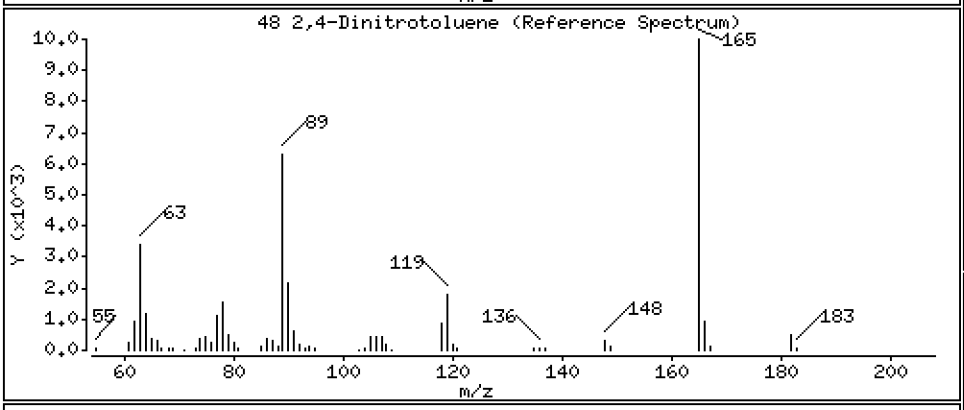
Concentration: 0.04924 ug/mL

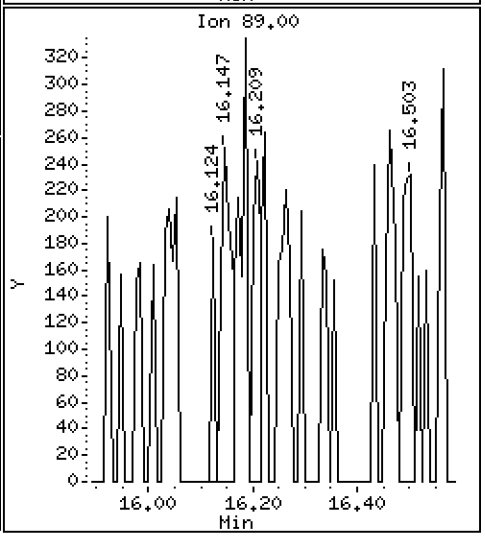


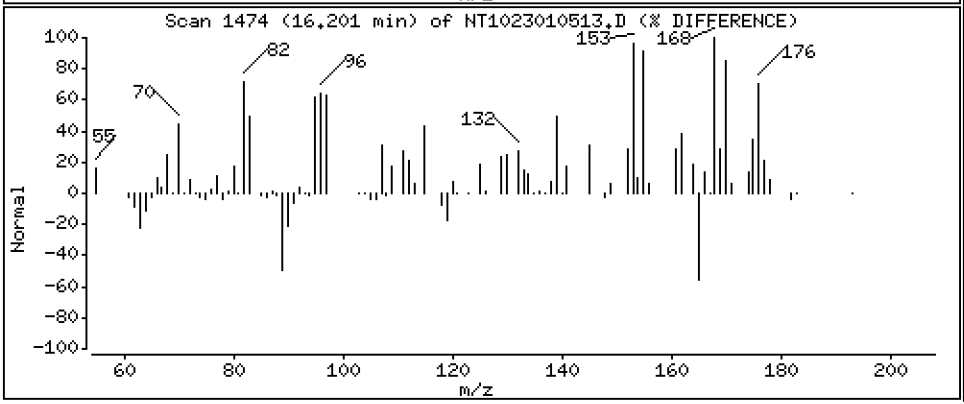












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

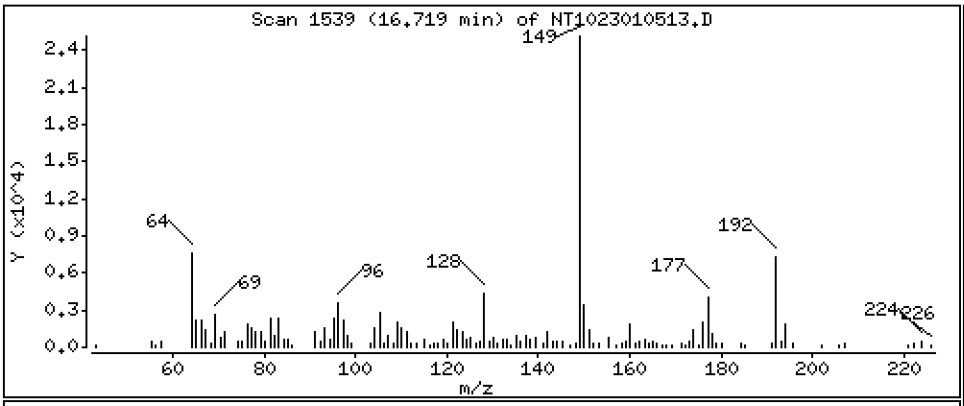
Operator: VTS

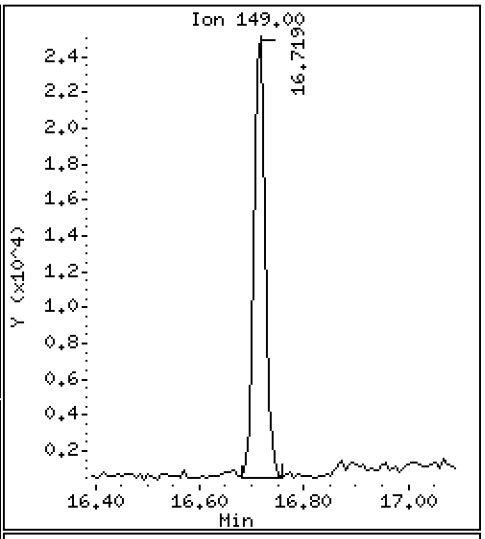
Column phase: ZB-5msi

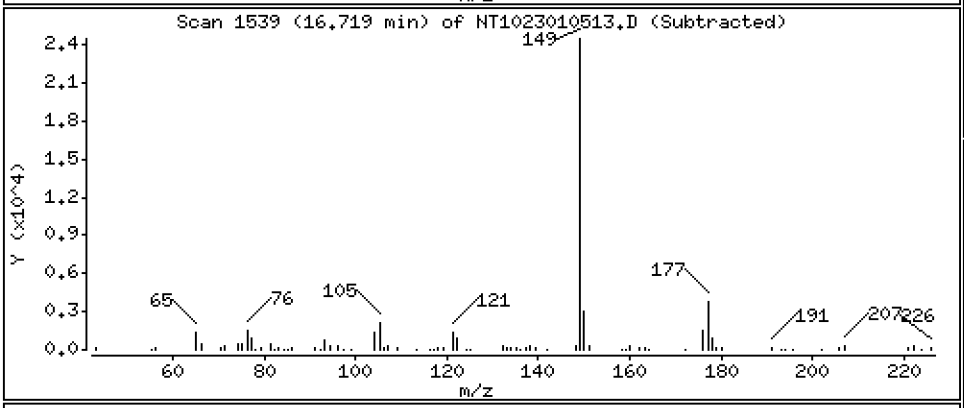
Column diameter: 0.25

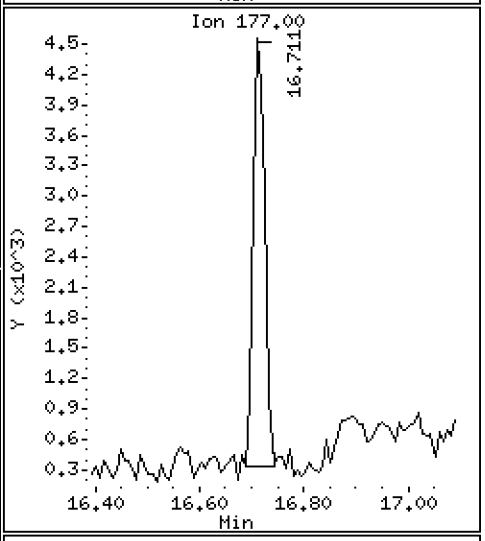
50 Diethylphthalate

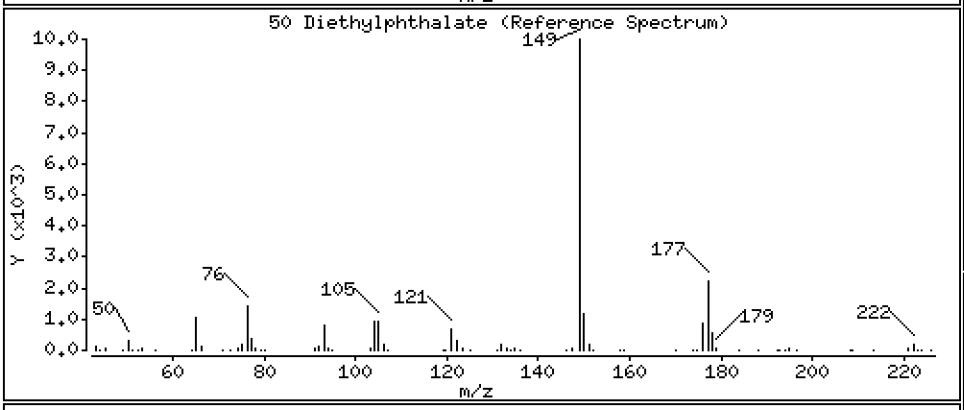
Concentration: 1.026 ug/mL

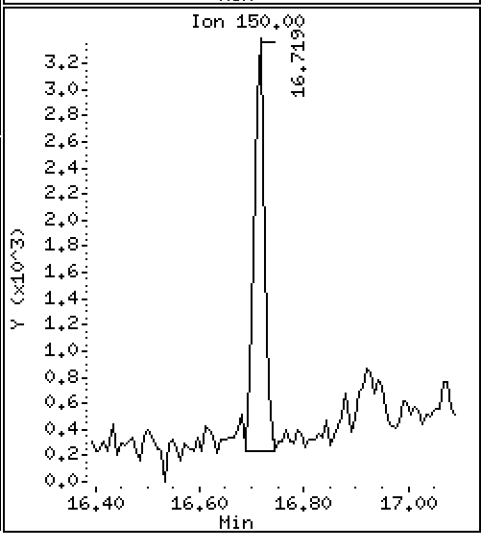


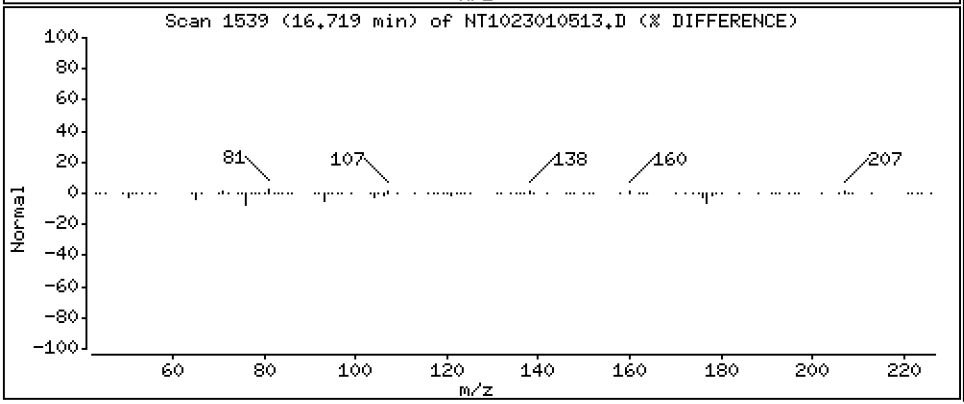












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

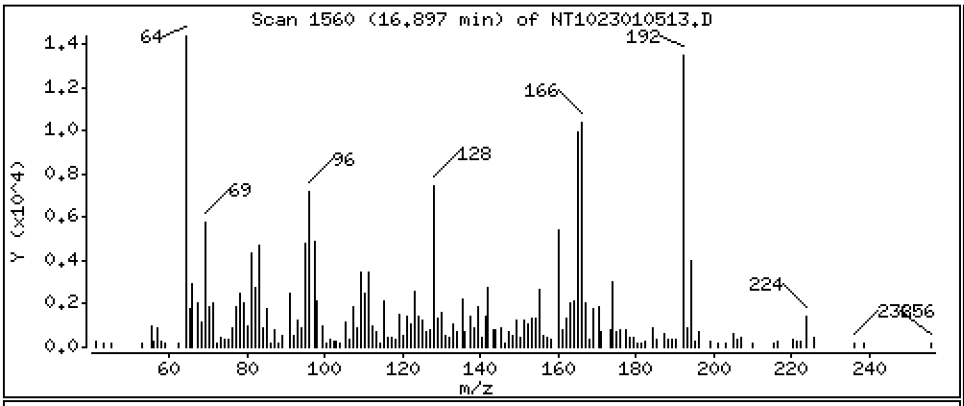
Operator: VTS

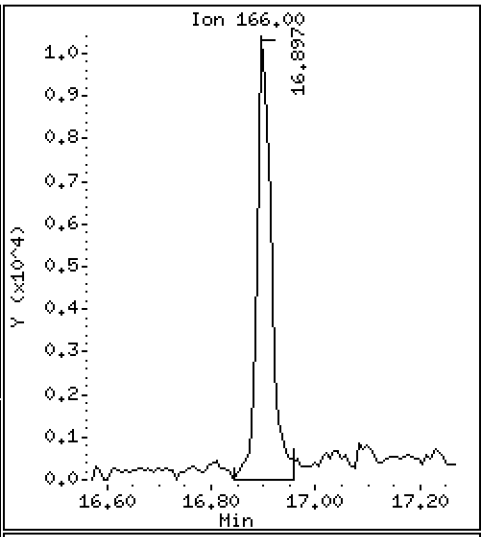
Column phase: ZB-5msi

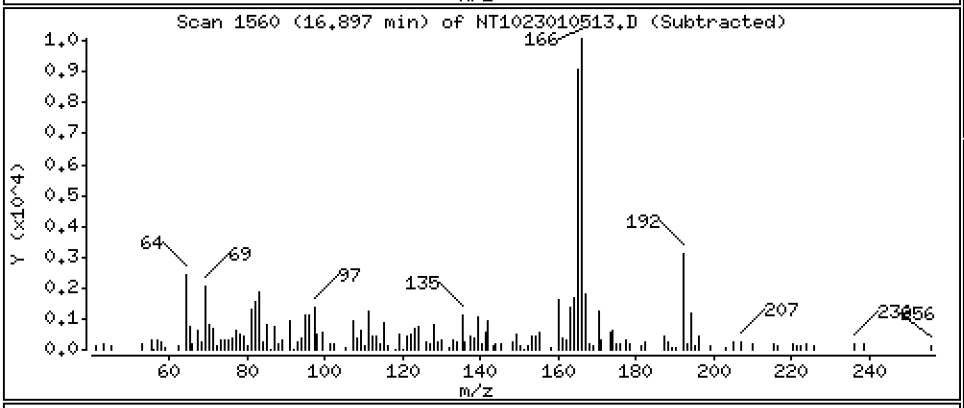
Column diameter: 0.25

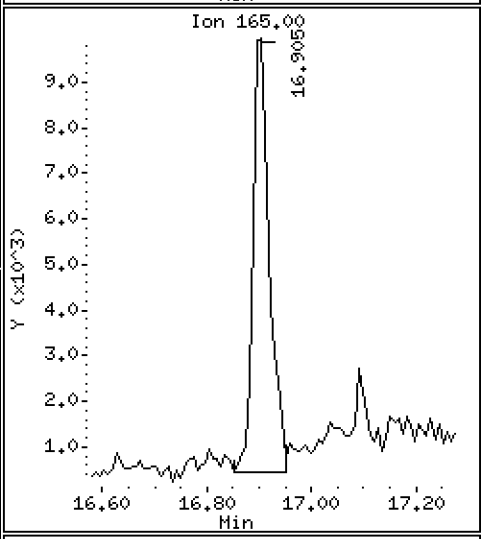
49 Fluorene

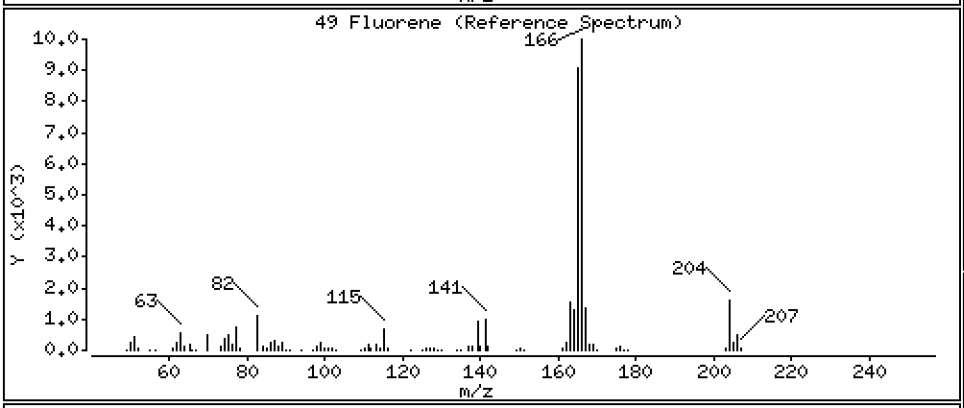
Concentration: 0.3127 ug/mL

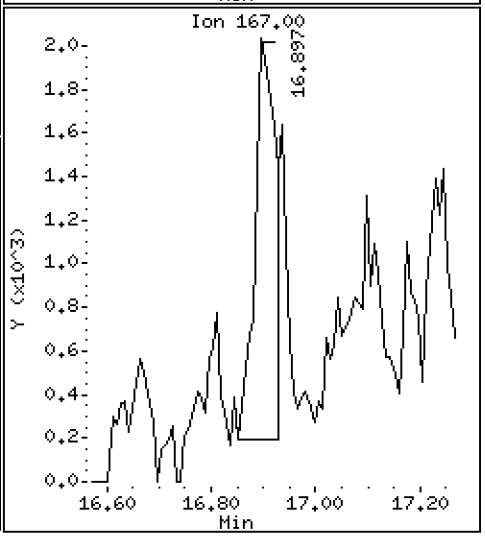


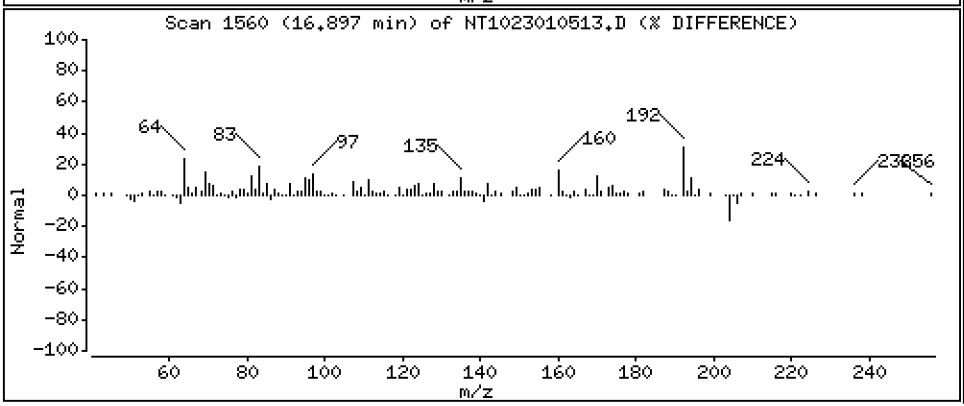












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

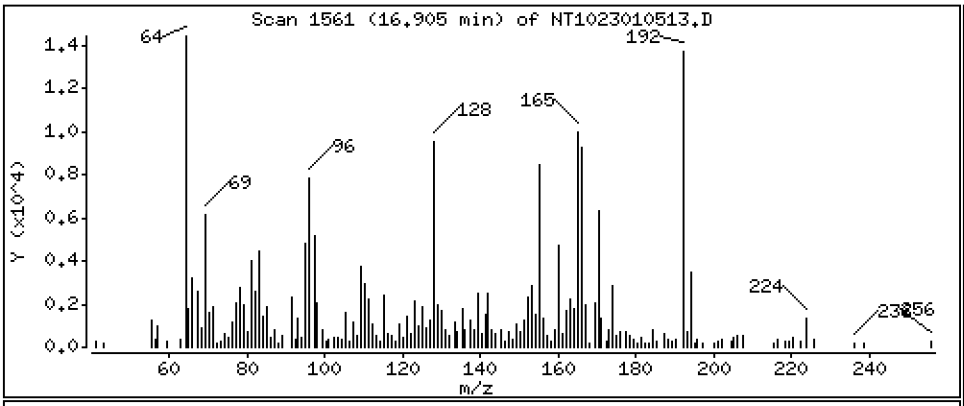
Operator: VTS

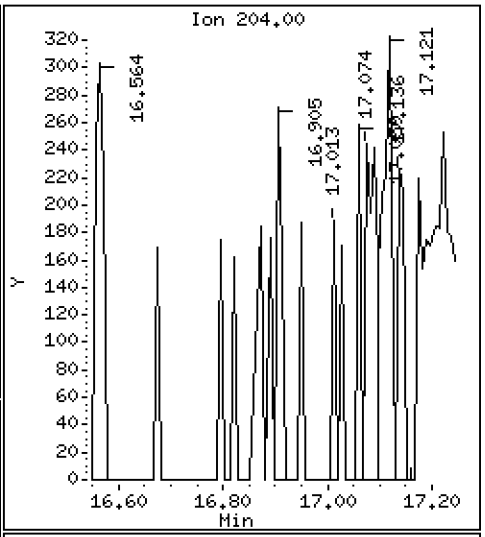
Column phase: ZB-5msi

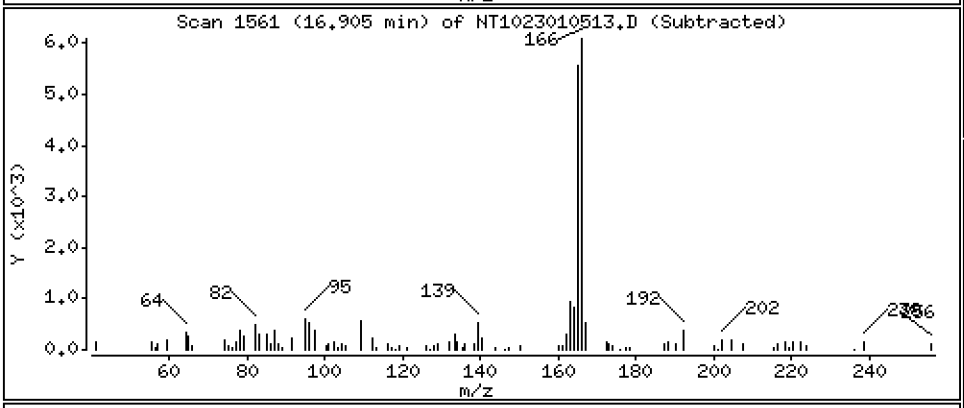
Column diameter: 0.25

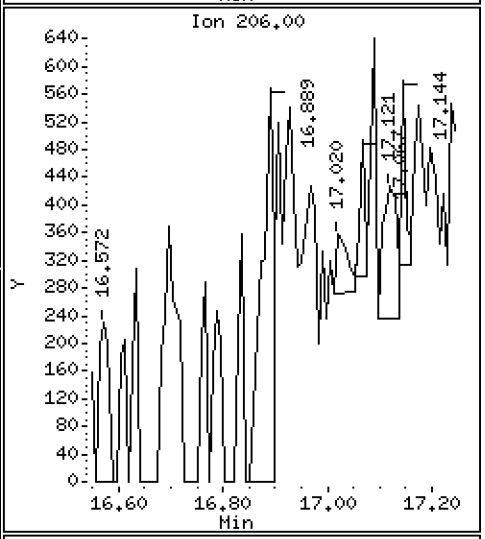
51 4-Chlorophenyl-phenylether

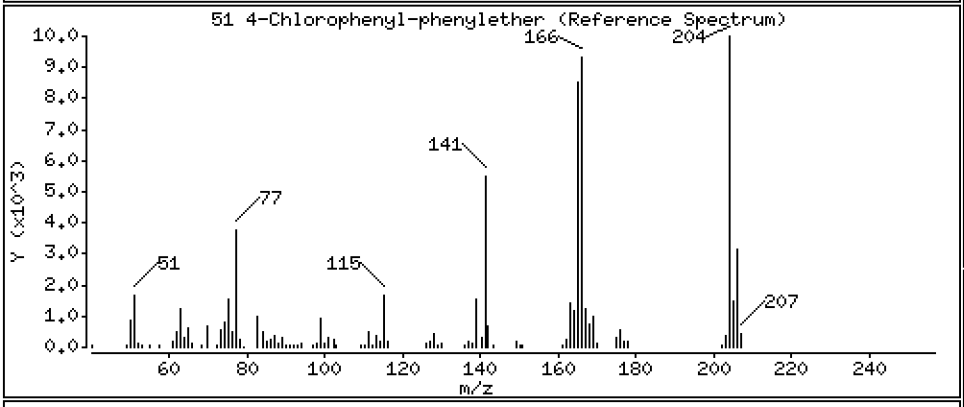
Concentration: 0.008842 ug/mL

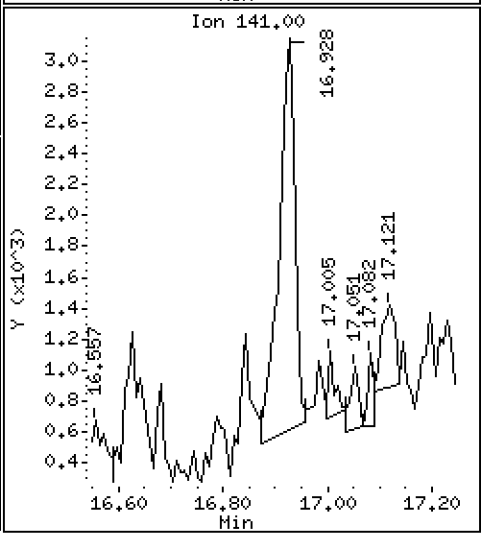


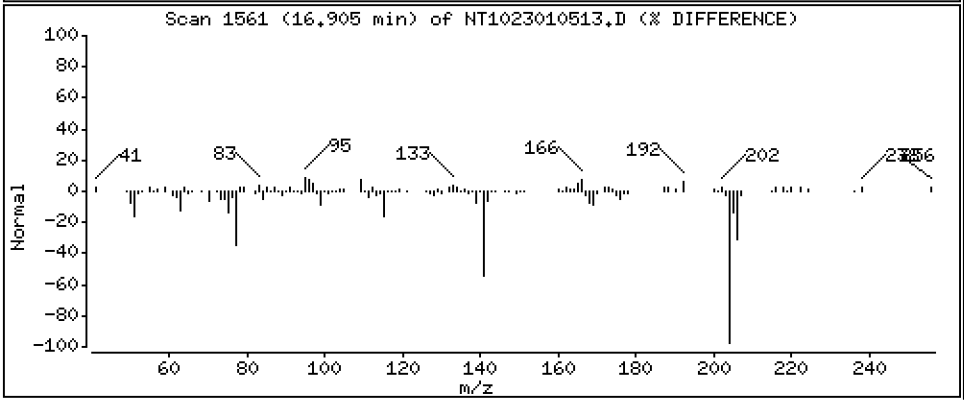












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

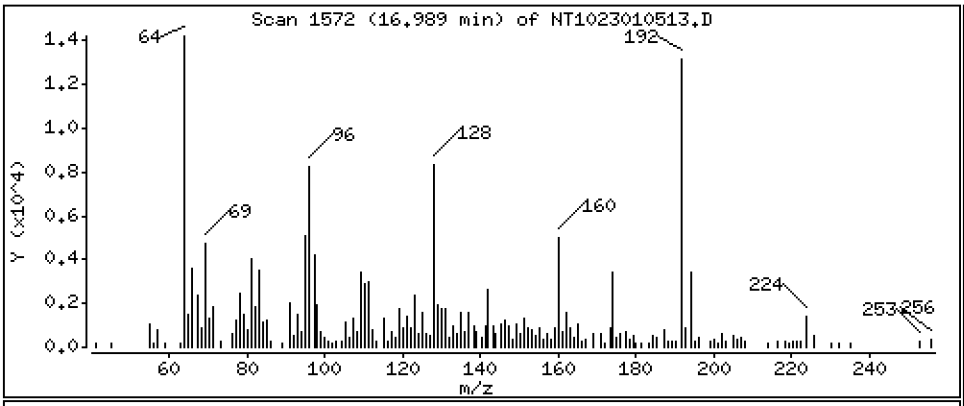
Operator: VTS

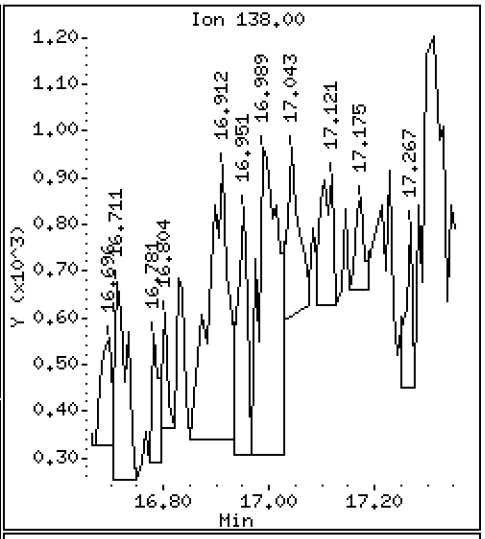
Column phase: ZB-5msi

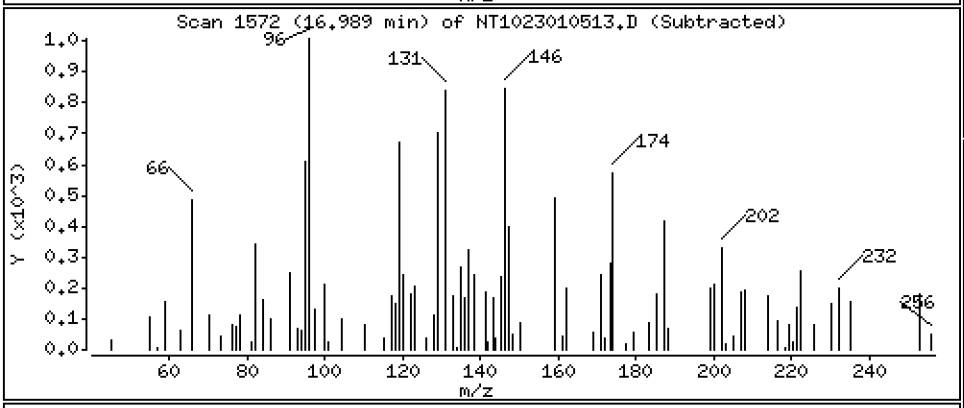
Column diameter: 0.25

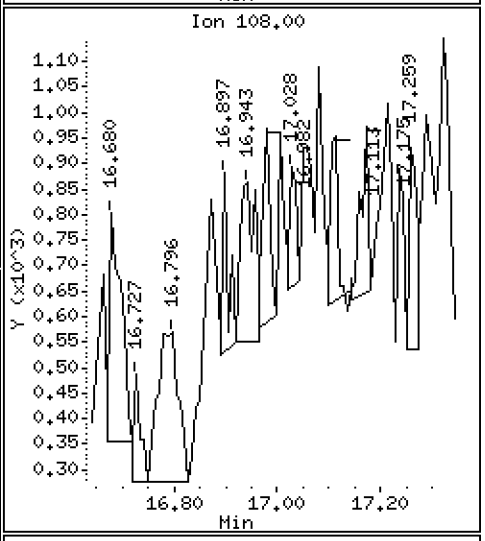
52 4-Nitroaniline

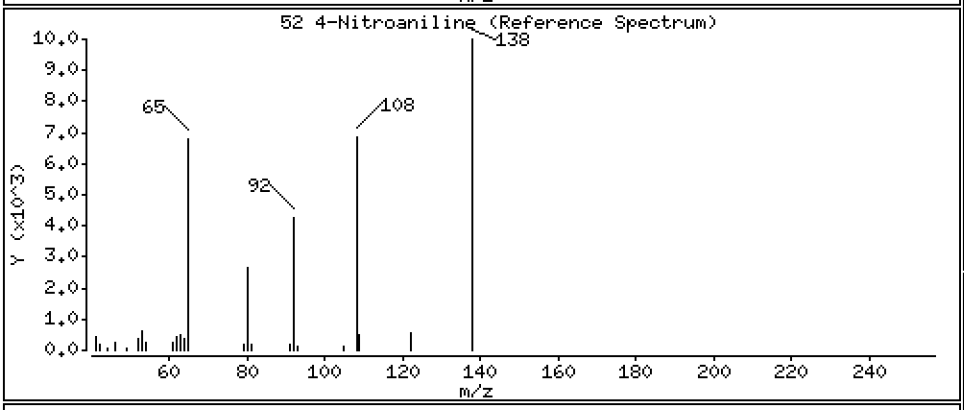
Concentration: 0.1155 ug/mL

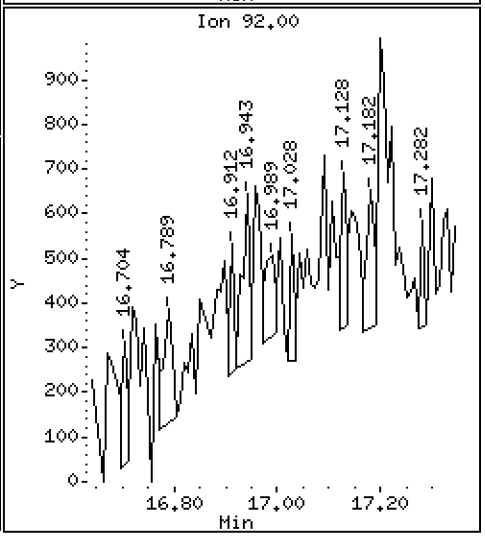


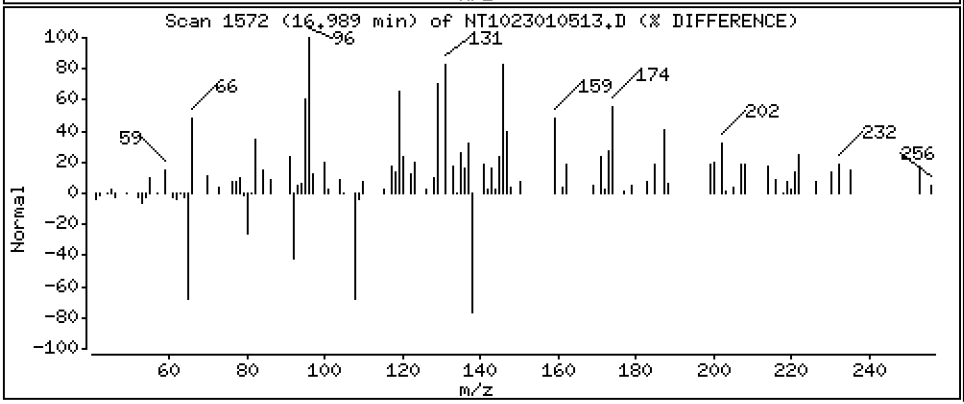












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

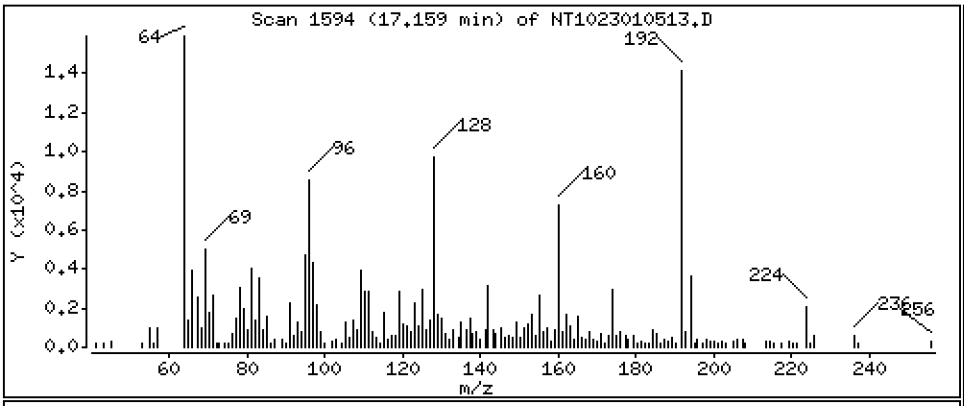
Operator: VTS

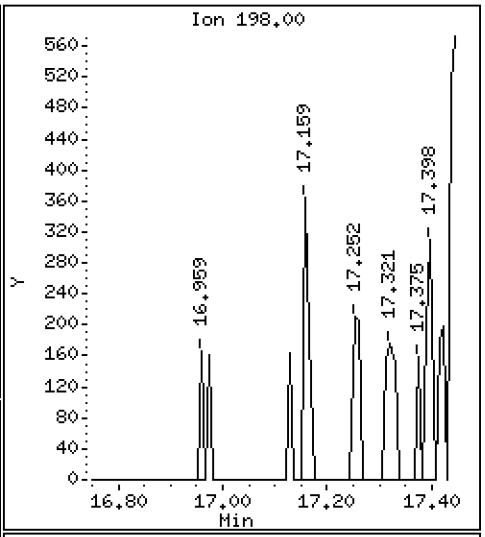
Column phase: ZB-5msi

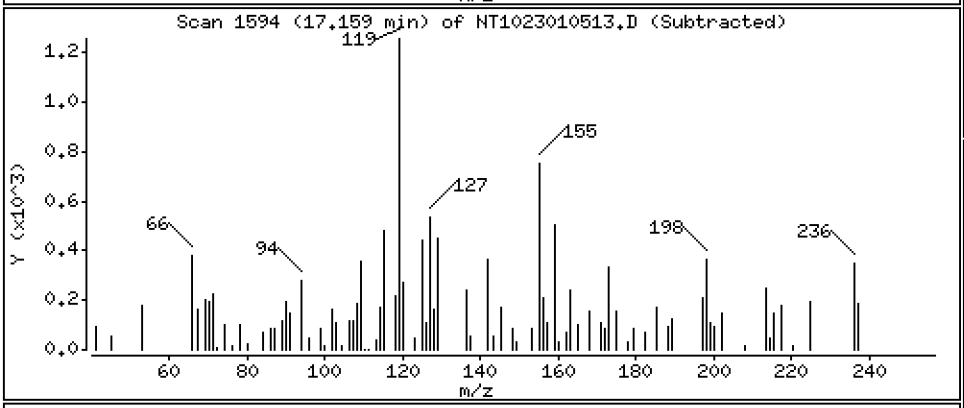
Column diameter: 0.25

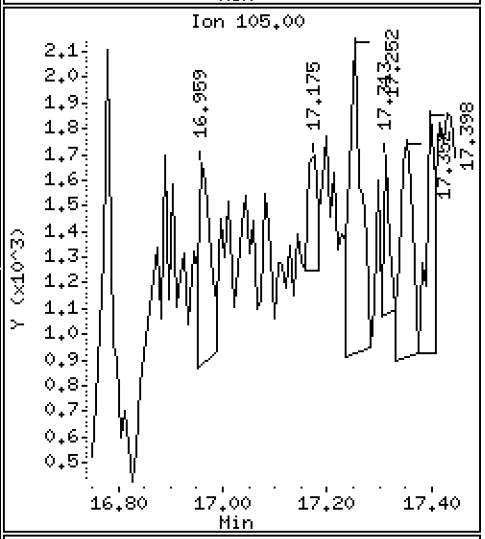
53 4,6-Dinitro-2-methylphenol

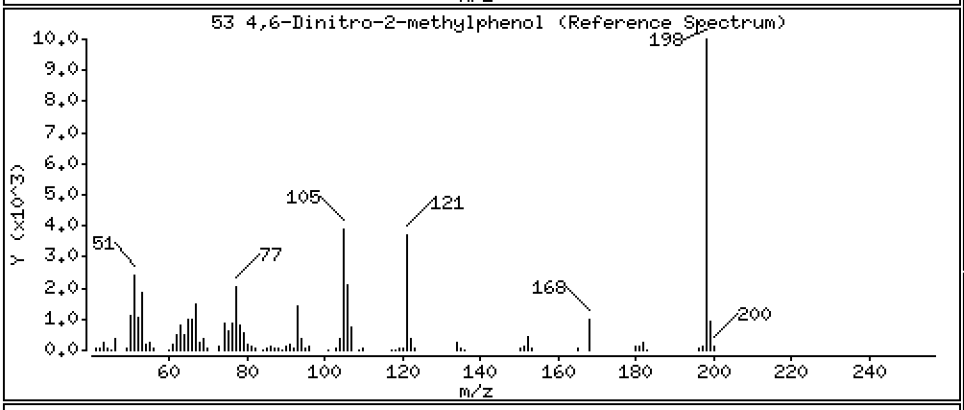
Concentration: 0.03175 ug/mL

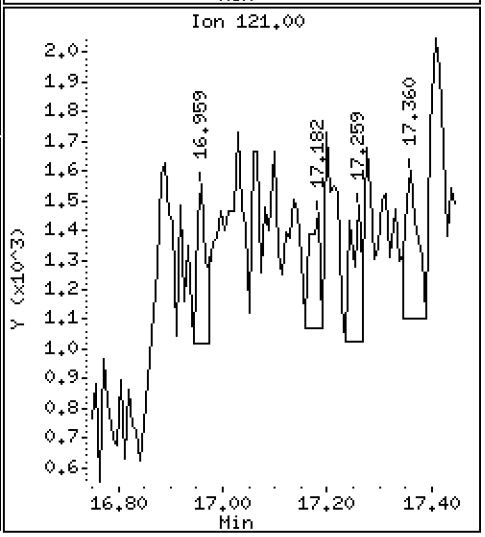


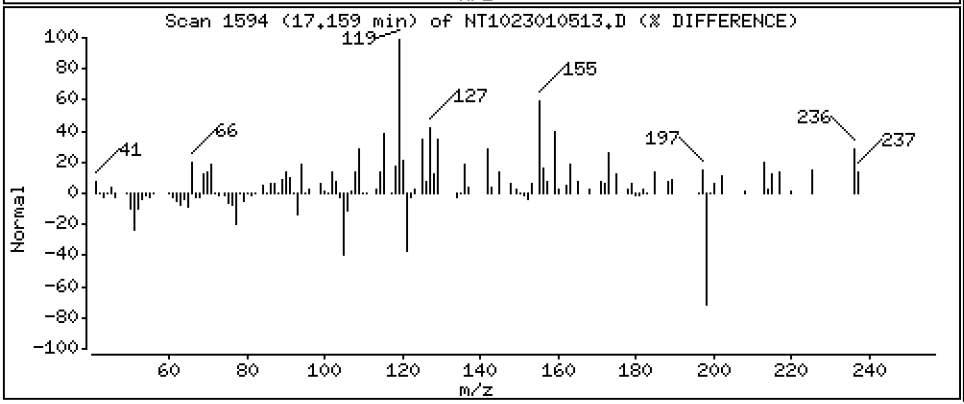












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

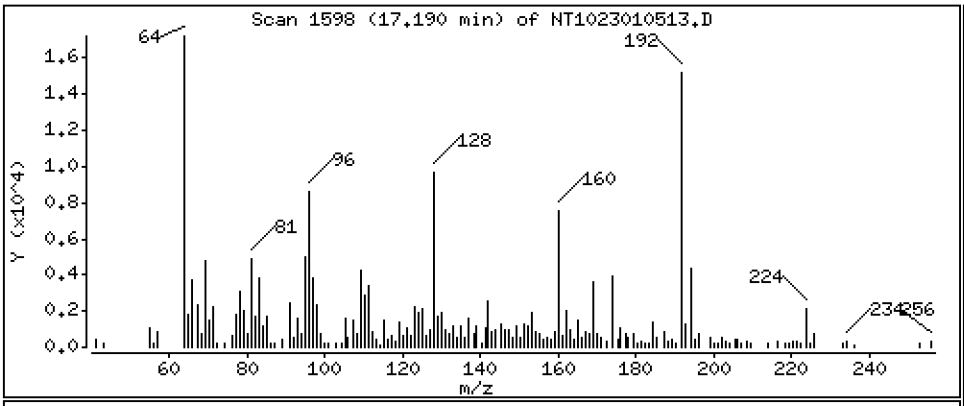
Operator: VTS

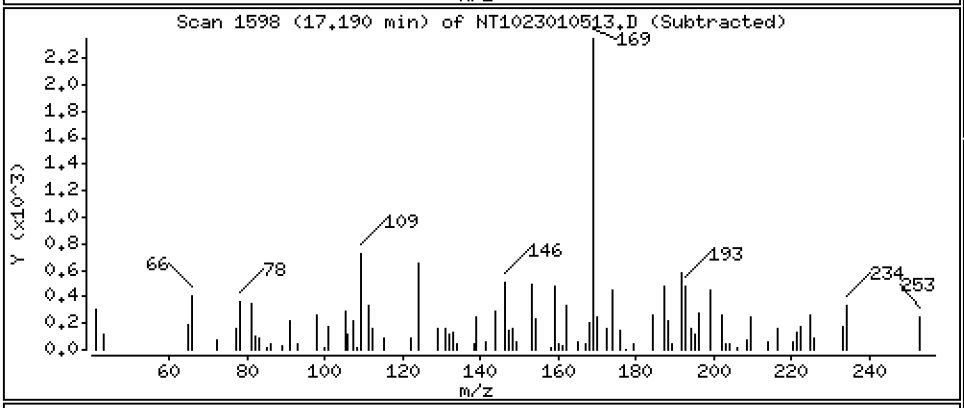
Column phase: ZB-5msi

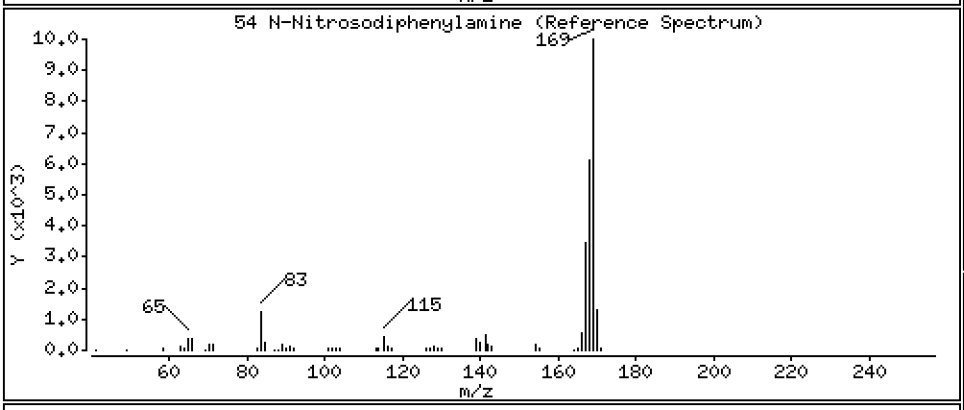
Column diameter: 0.25

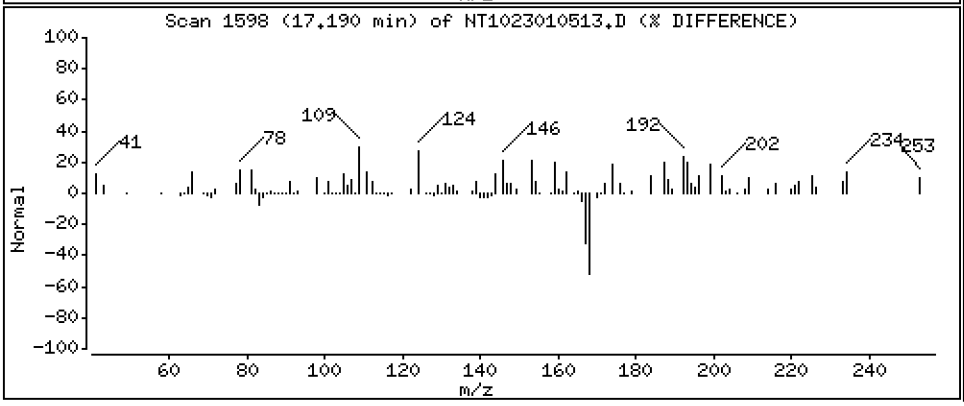
54 N-Nitrosodiphenylamine

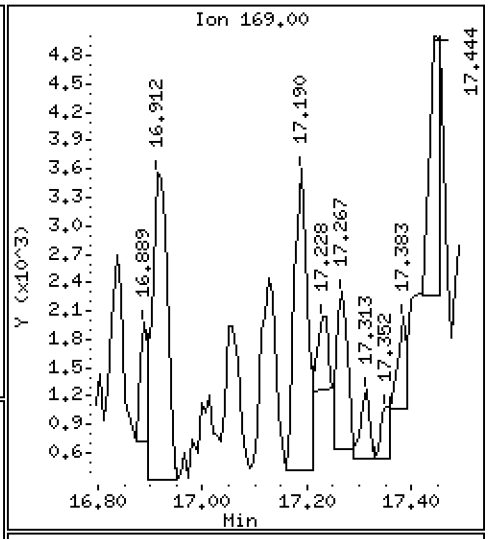
Concentration: 0.1690 ug/mL

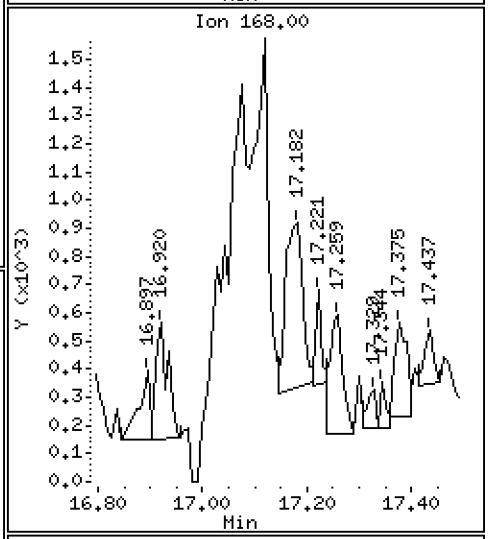


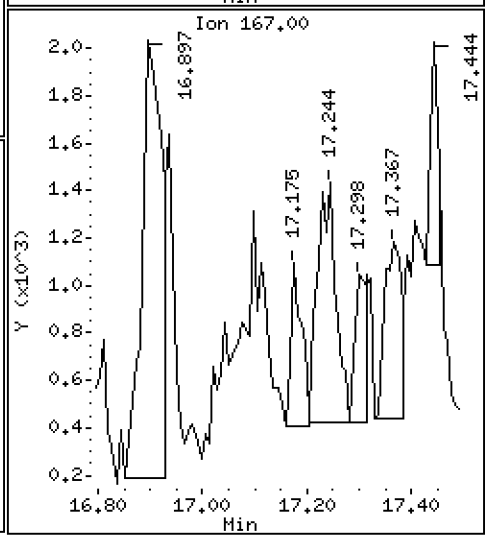












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

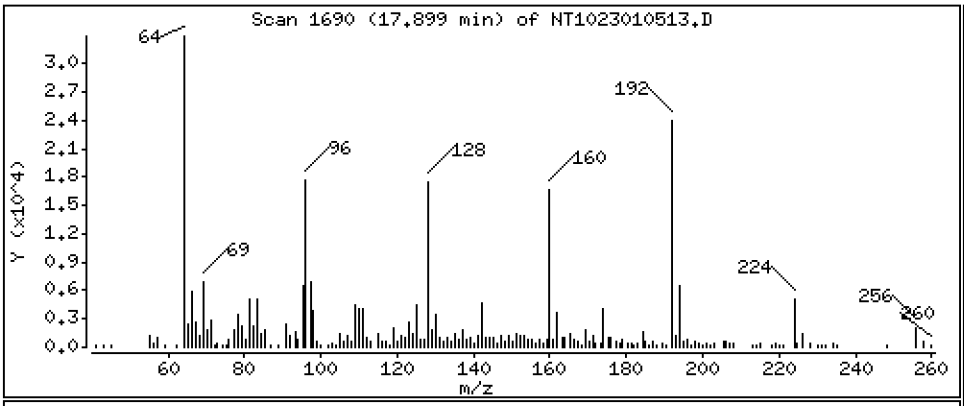
Operator: VTS

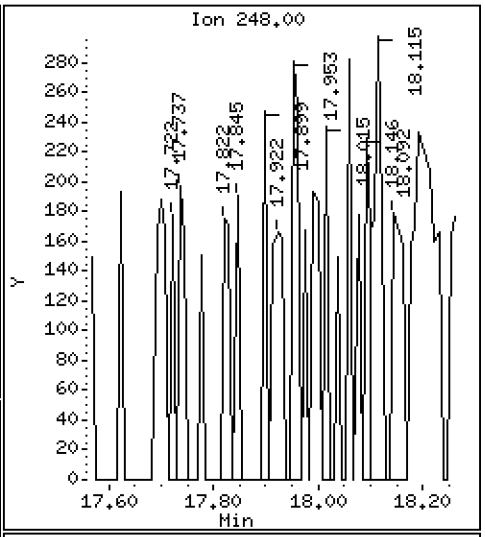
Column phase: ZB-5msi

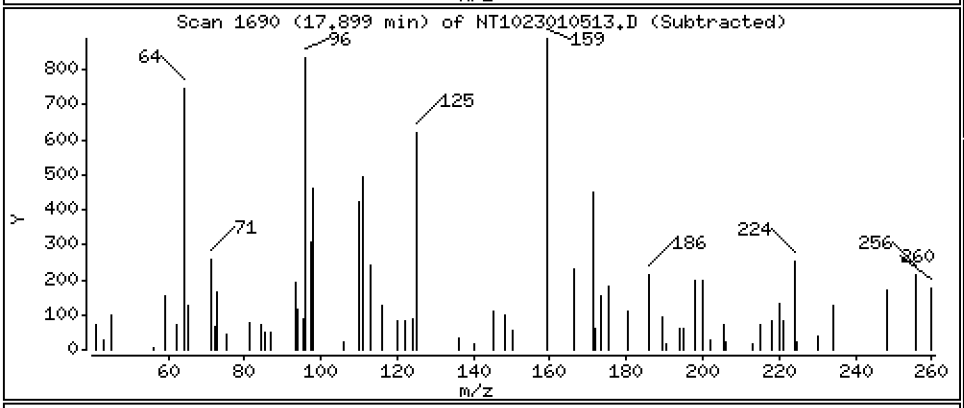
Column diameter: 0.25

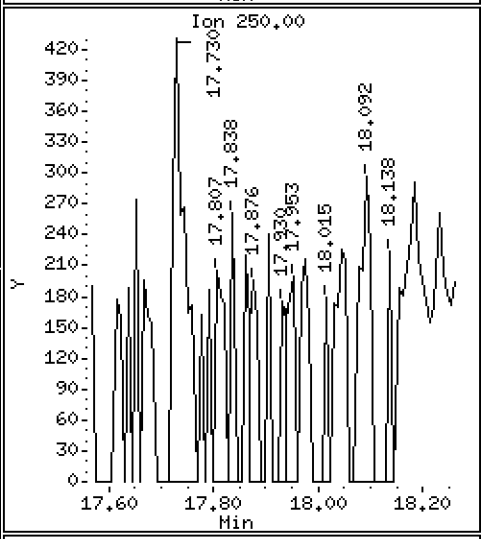
56 4-Bromophenyl-phenylether

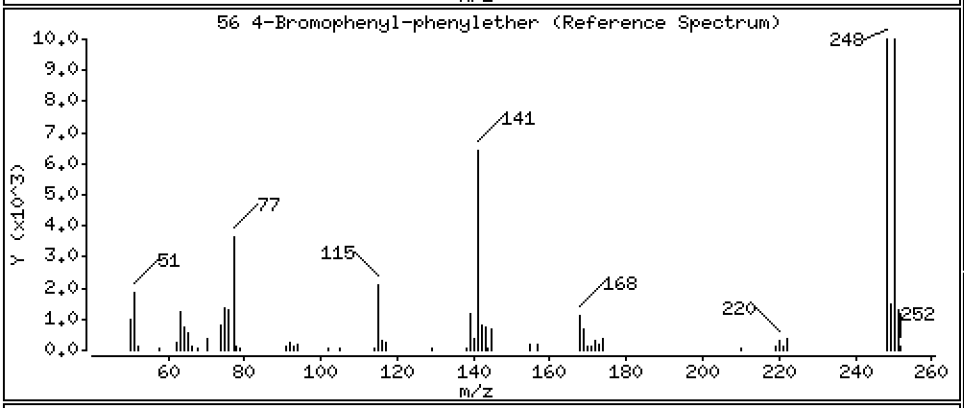
Concentration: 0.01230 ug/mL

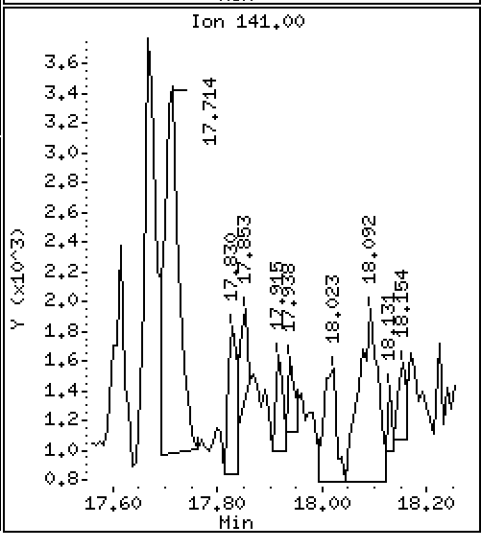


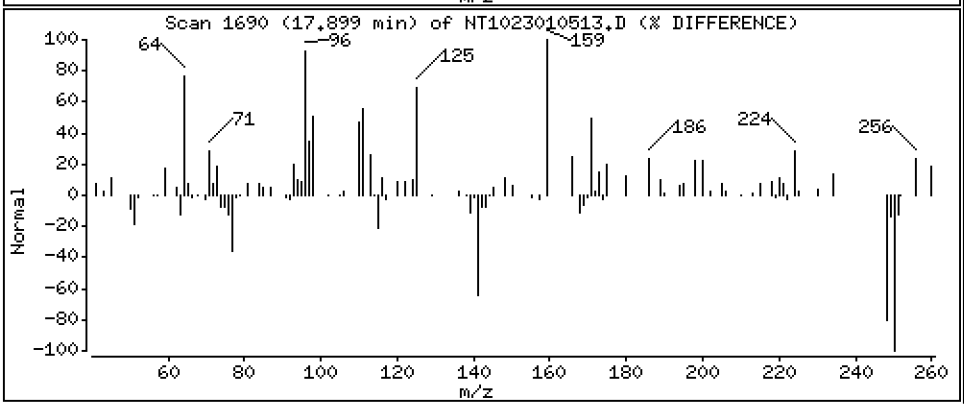












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

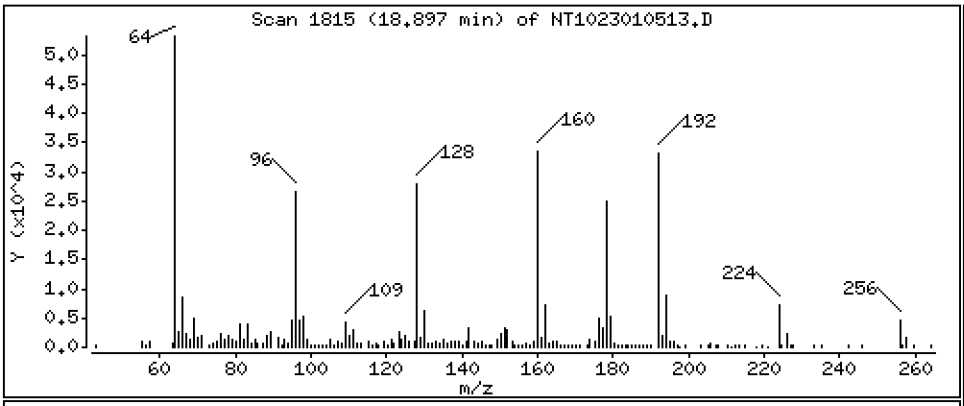
Operator: VTS

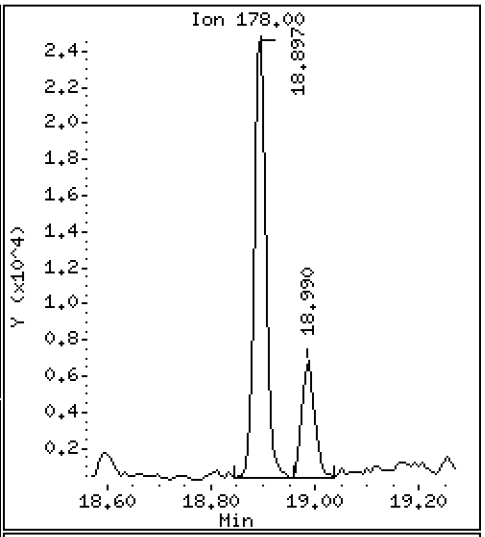
Column phase: ZB-5msi

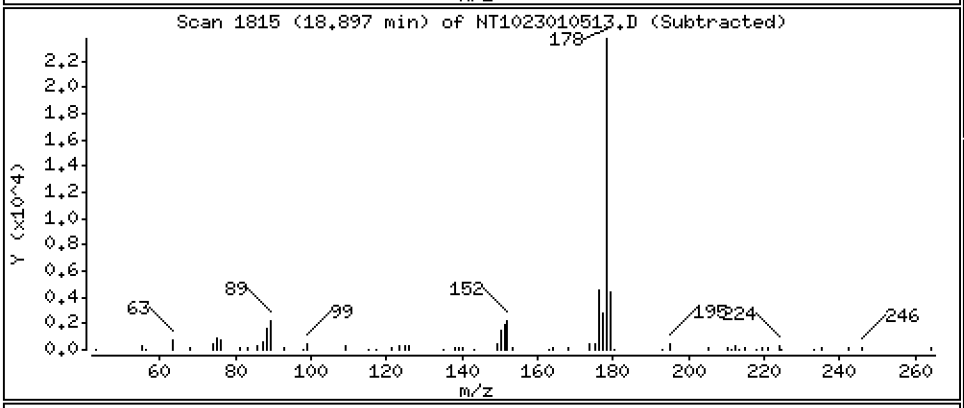
Column diameter: 0.25

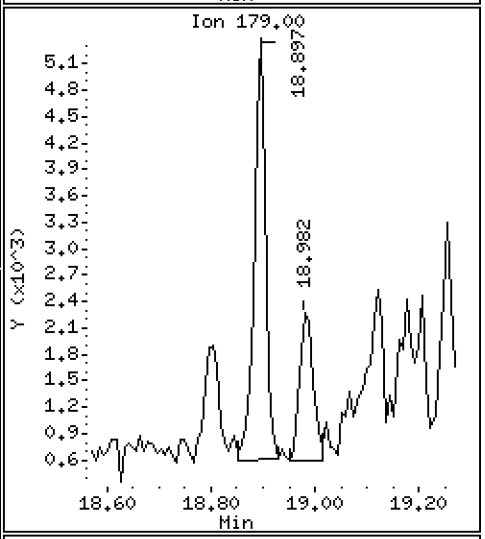
60 Phenanthrene

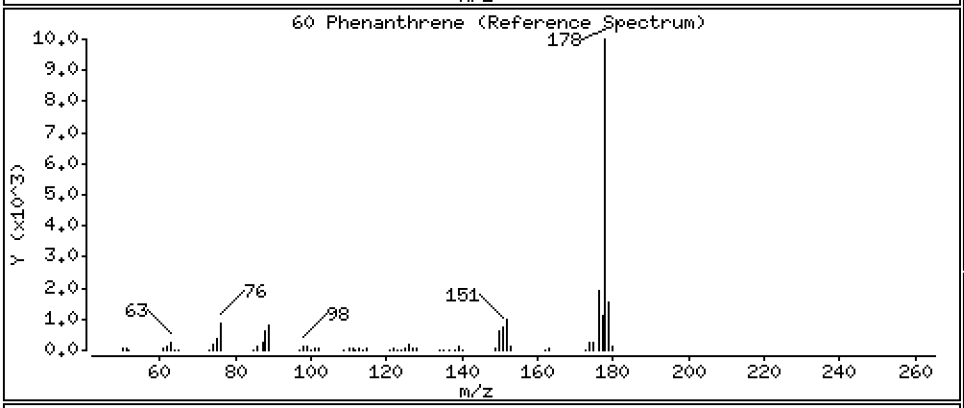
Concentration: 0.8625 ug/mL

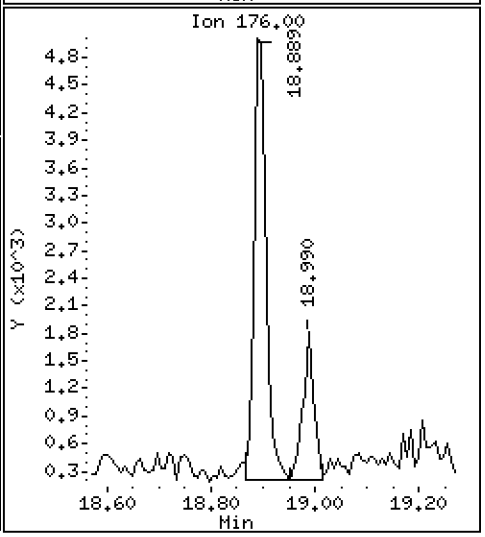


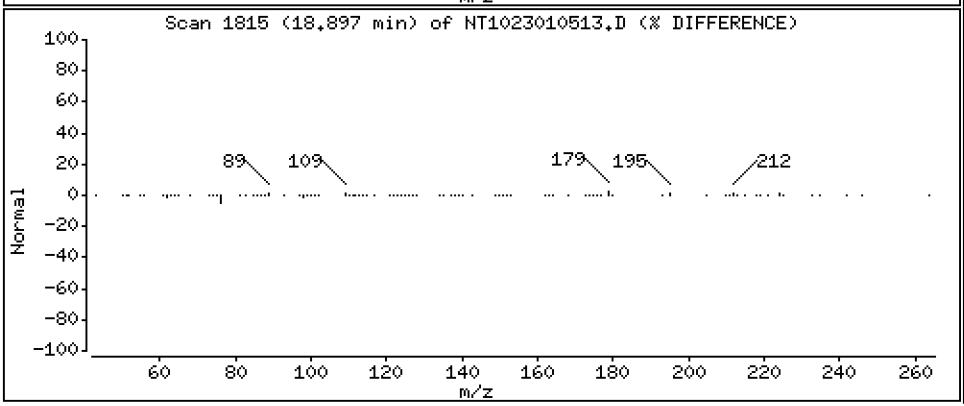












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010513.D

Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

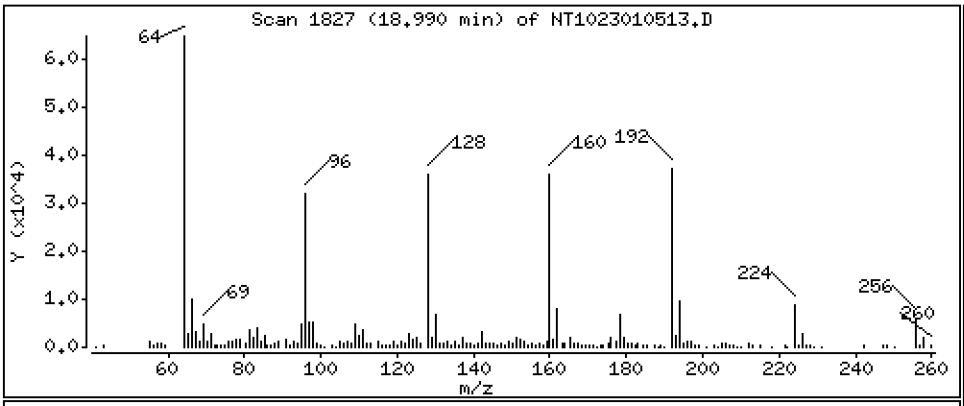
Operator: VTS

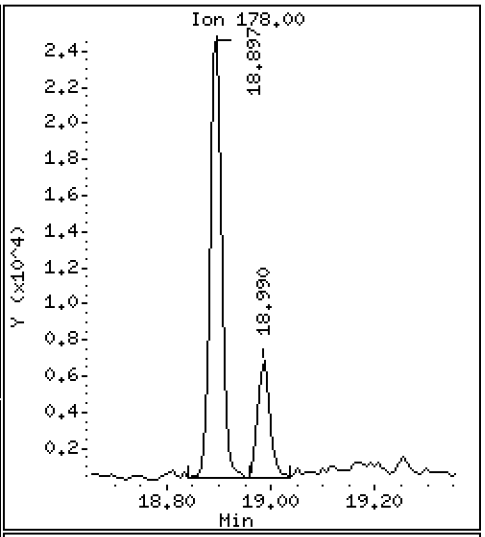
Column phase: ZB-5msi

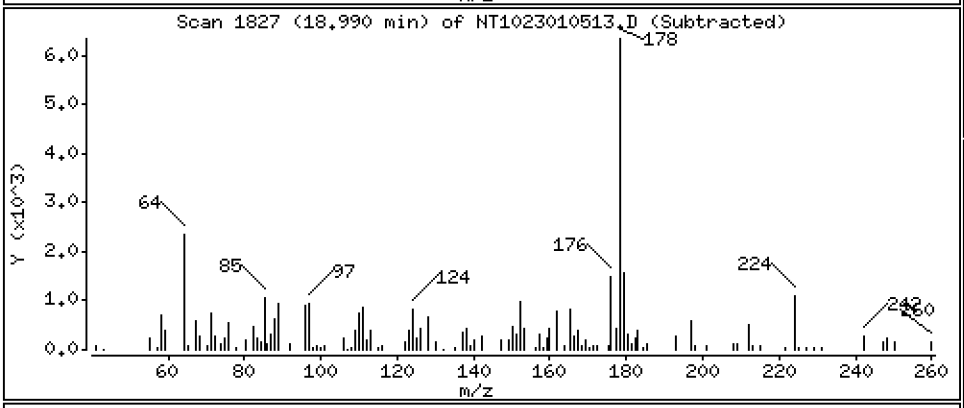
Column diameter: 0.25

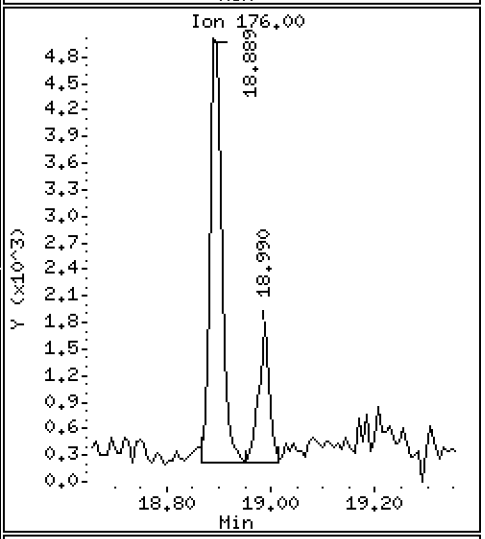
61 Anthracene

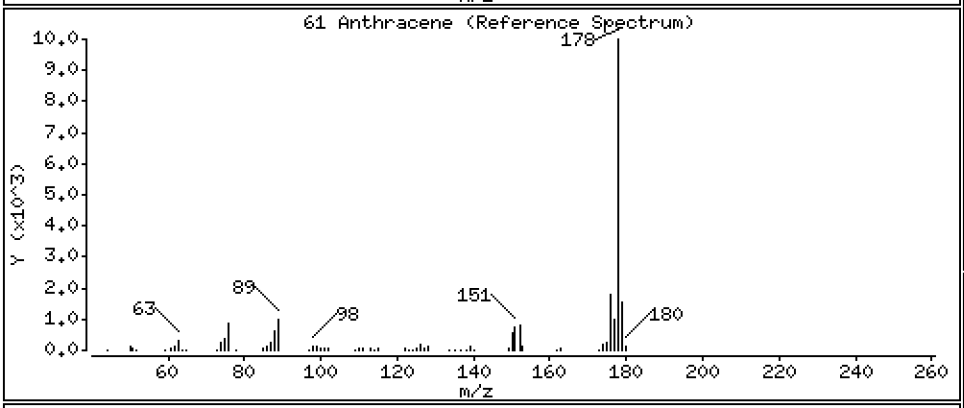
Concentration: 0.2477 ug/mL

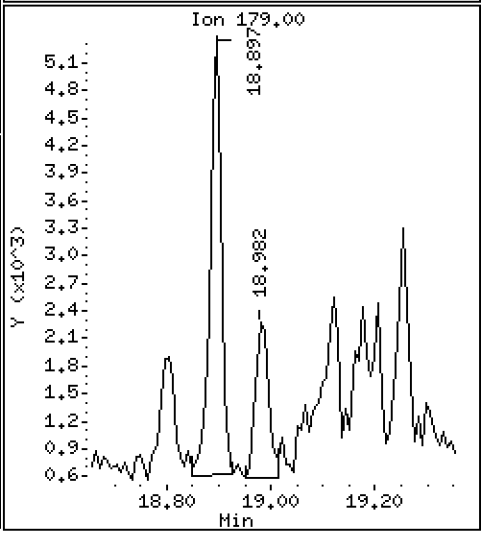


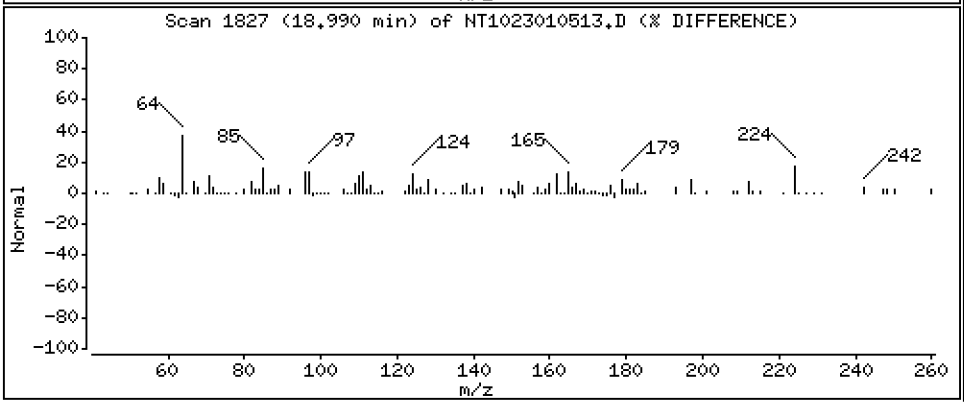












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

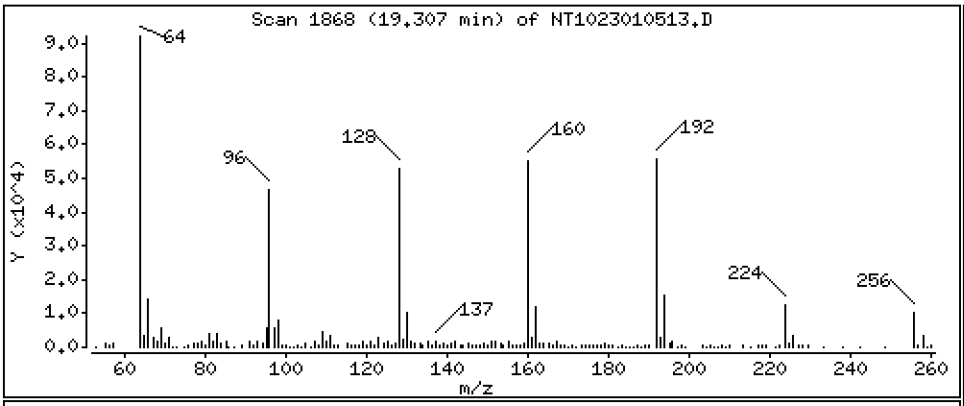
Operator: VTS

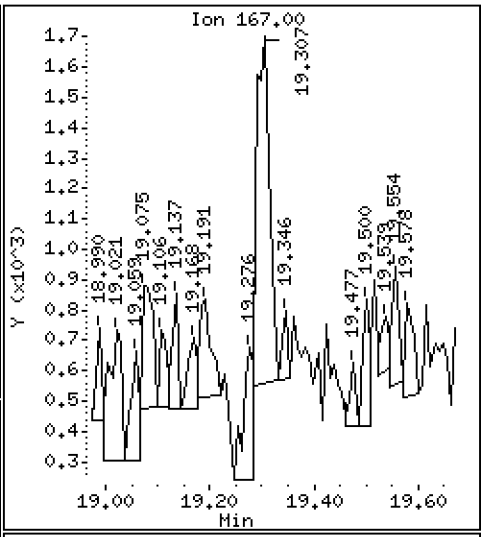
Column phase: ZB-5msi

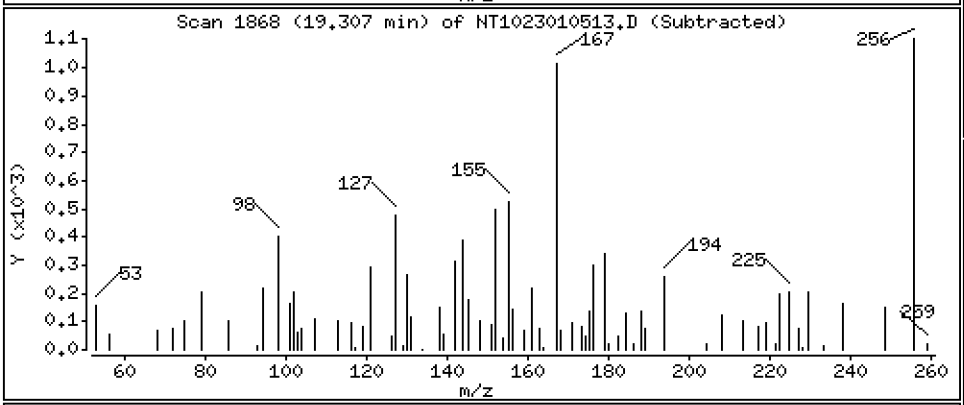
Column diameter: 0.25

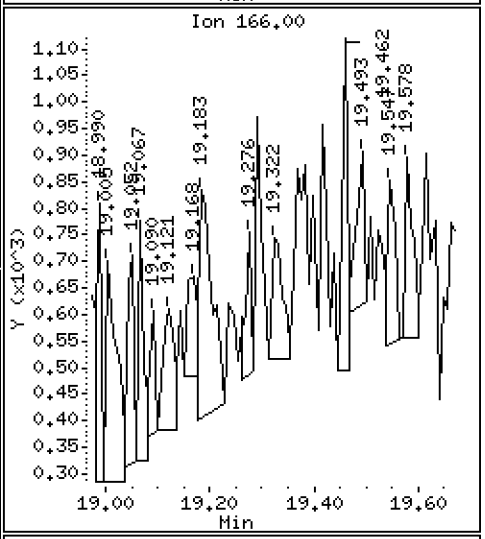
62 Carbazole

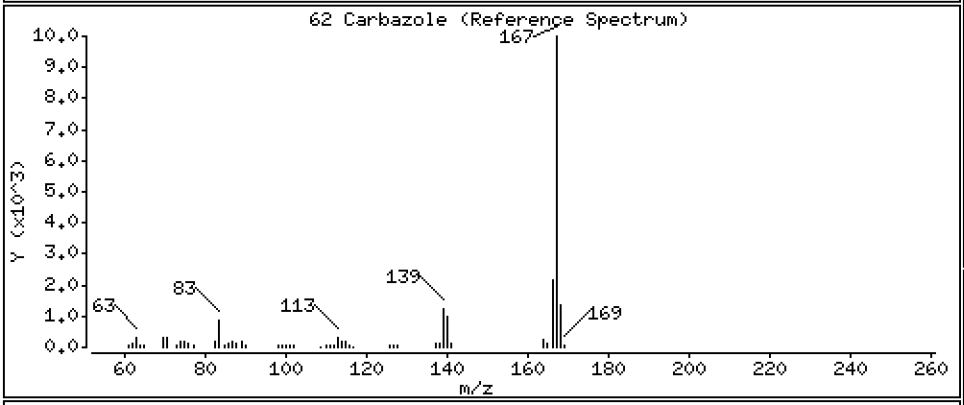
Concentration: 0.03983 ug/mL

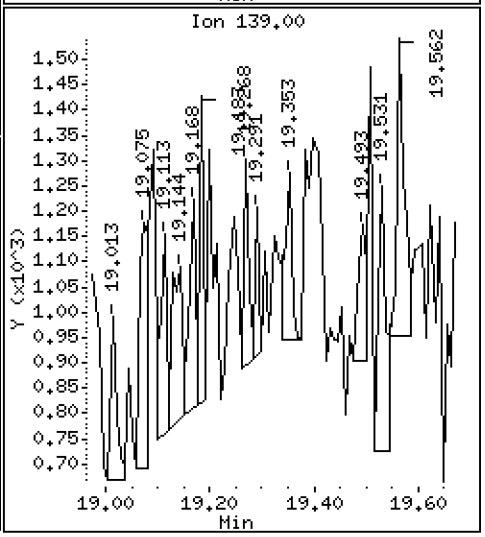


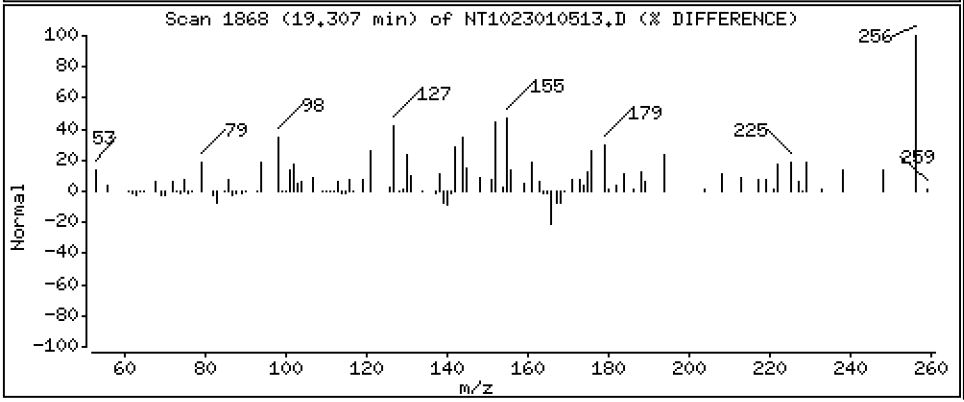












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

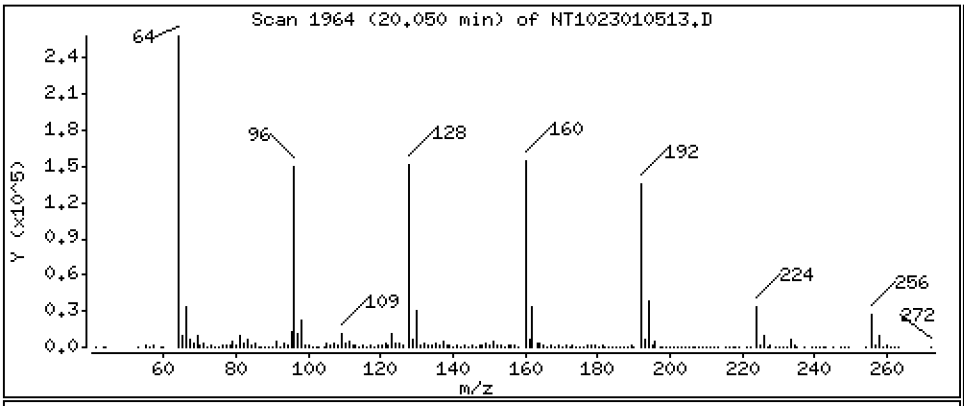
Operator: VTS

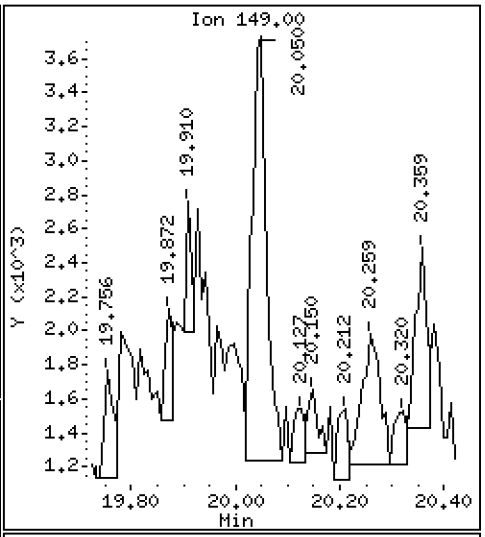
Column phase: ZB-5msi

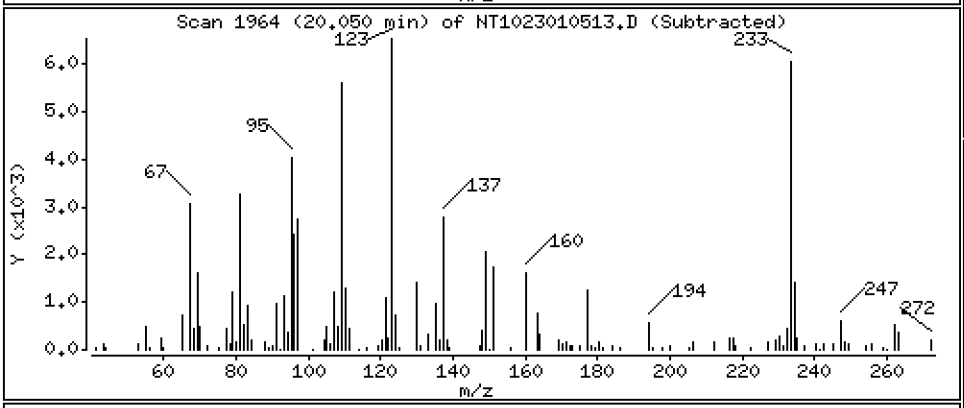
Column diameter: 0.25

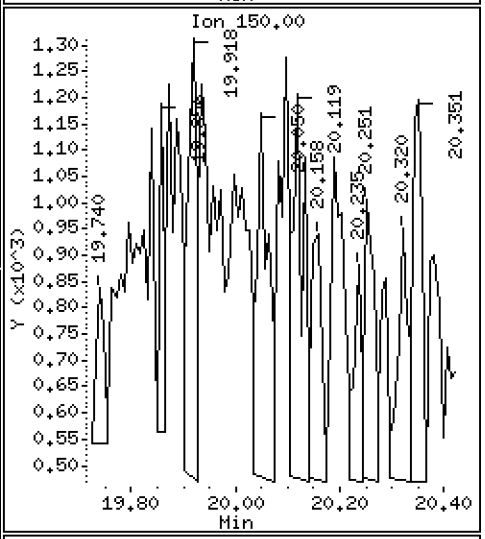
63 Di-n-butylphthalate

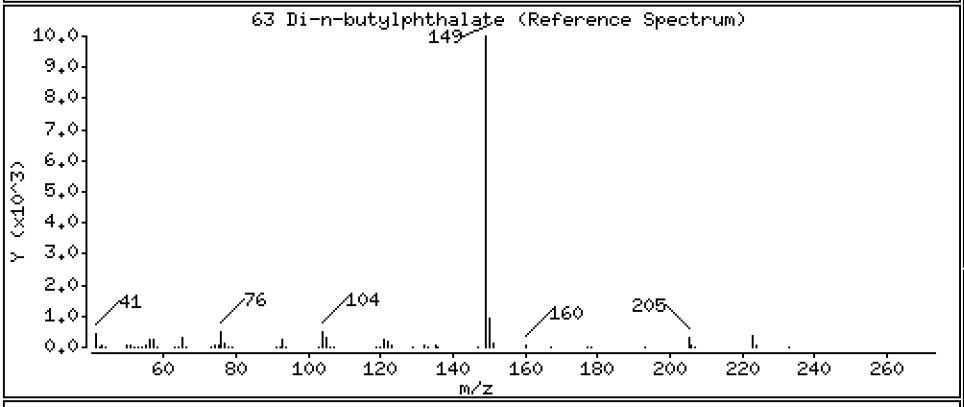
Concentration: 0.07844 ug/mL

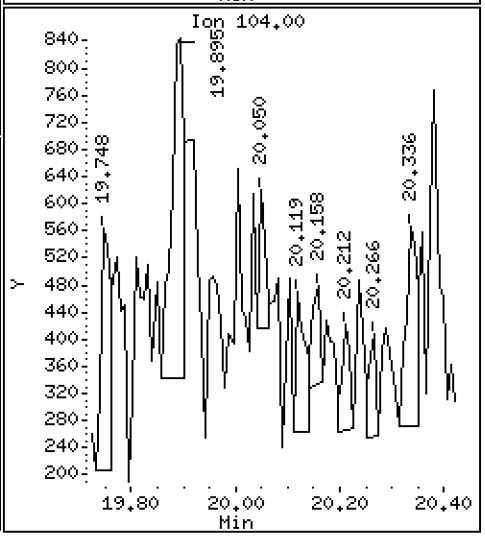


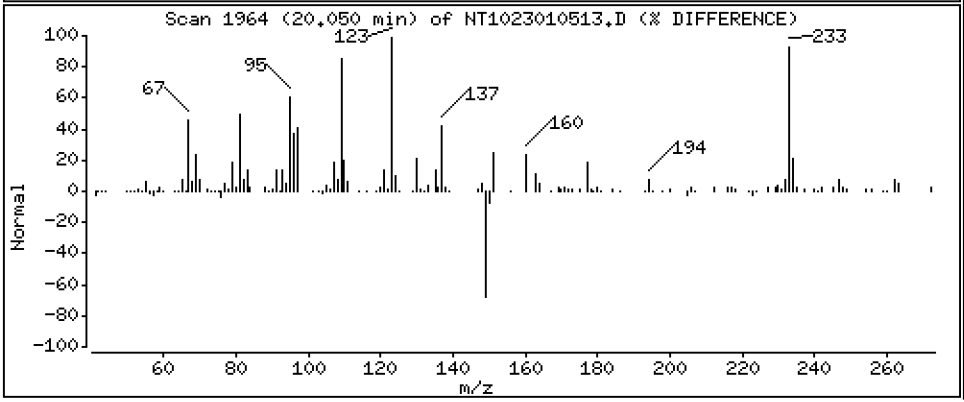












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

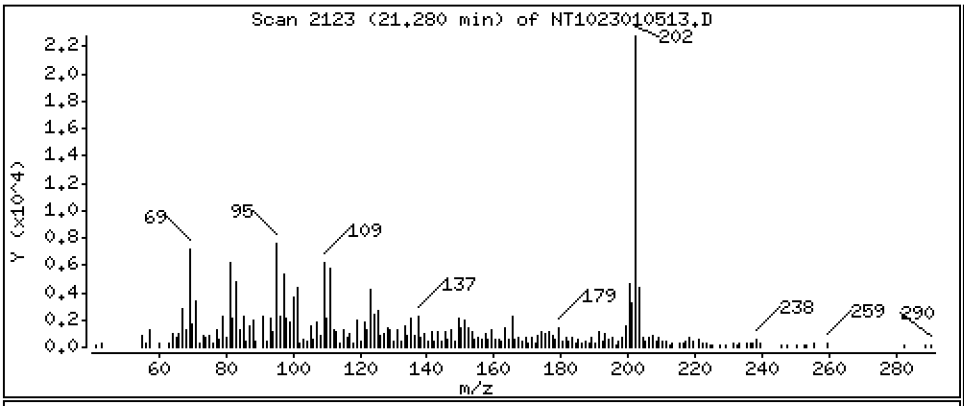
Operator: VTS

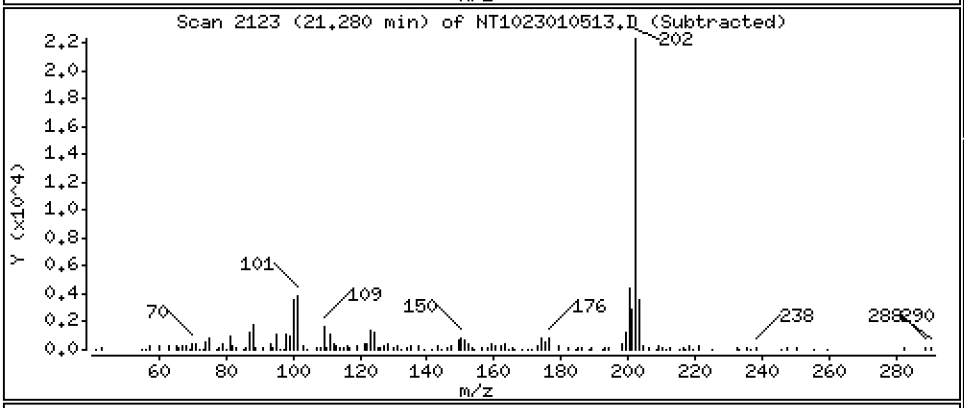
Column phase: ZB-5msi

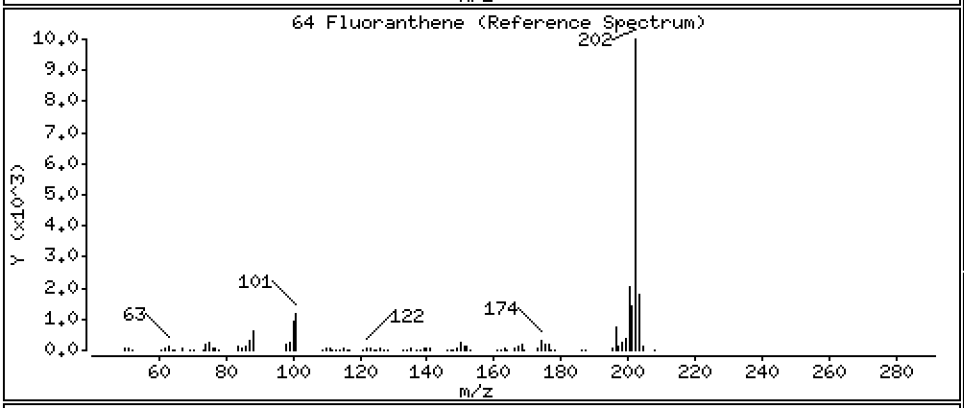
Column diameter: 0.25

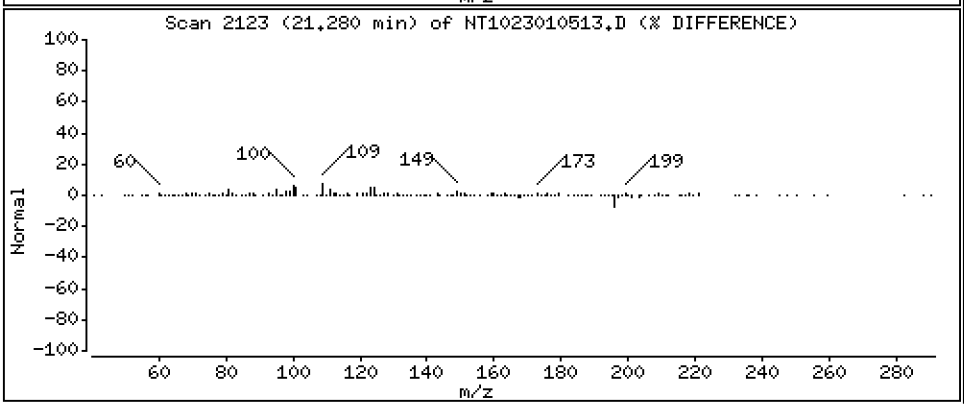
64 Fluoranthene

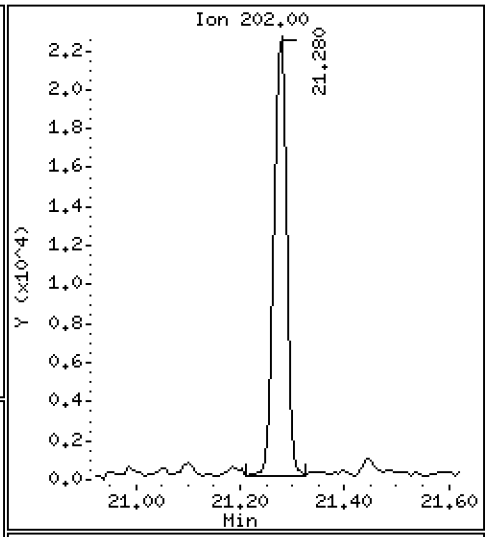
Concentration: 0.9296 ug/mL

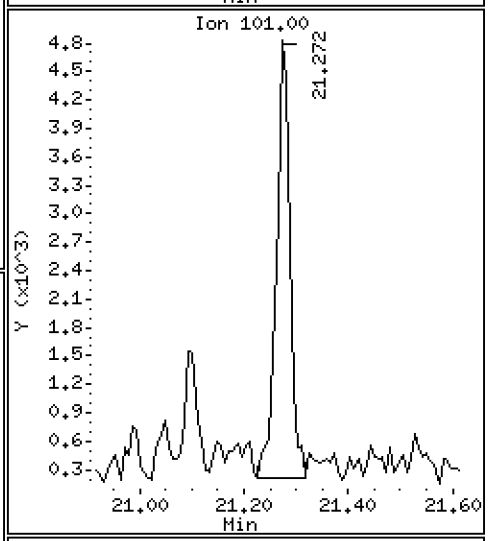


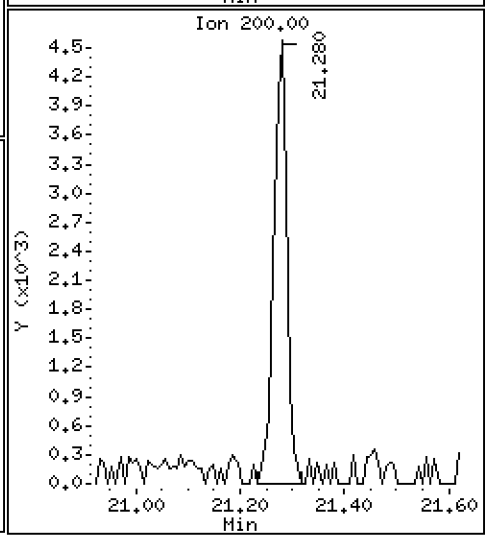












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

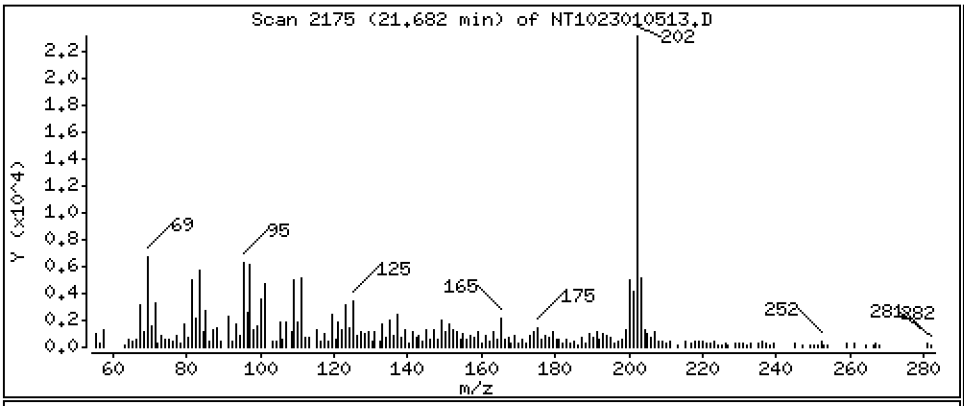
Operator: VTS

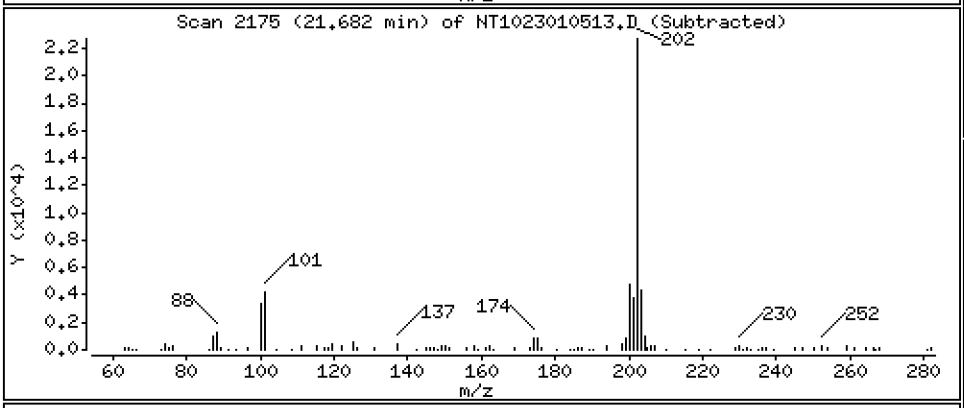
Column phase: ZB-5msi

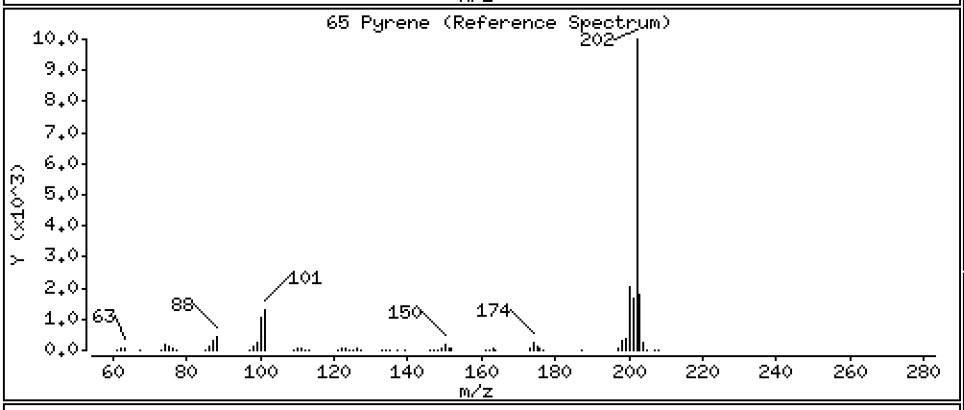
Column diameter: 0.25

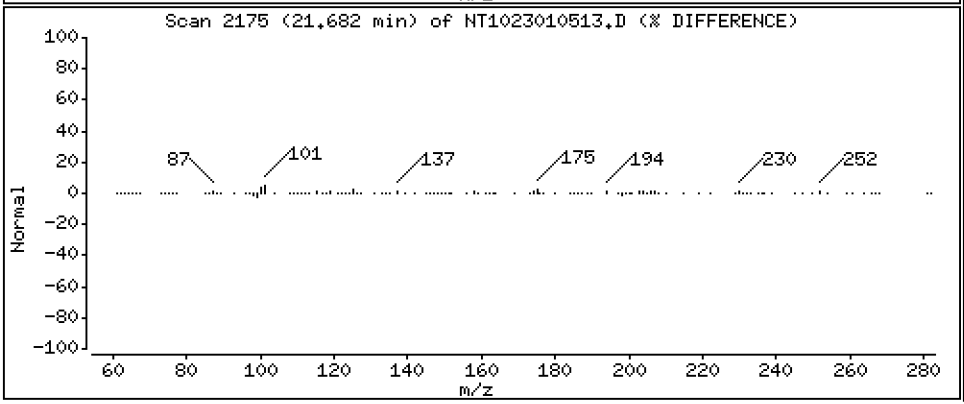
65 Pyrene

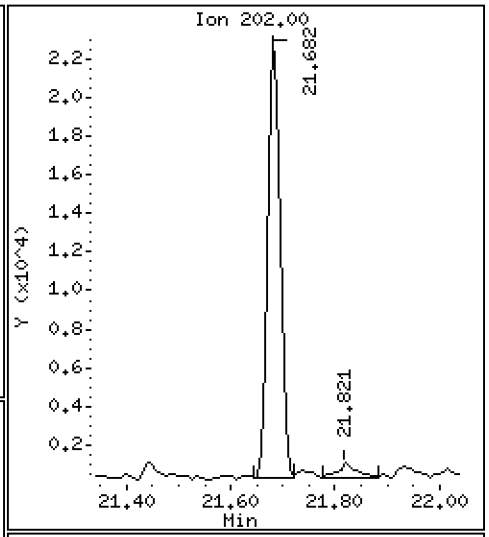
Concentration: 0.9175 ug/mL

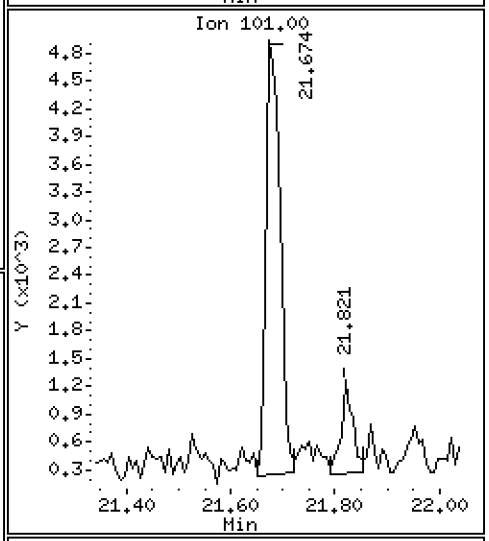


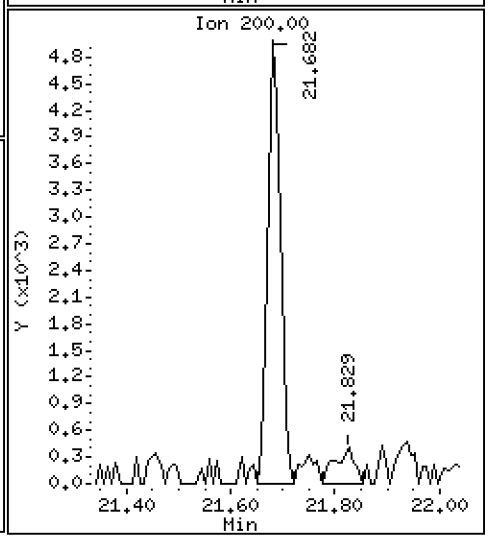












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

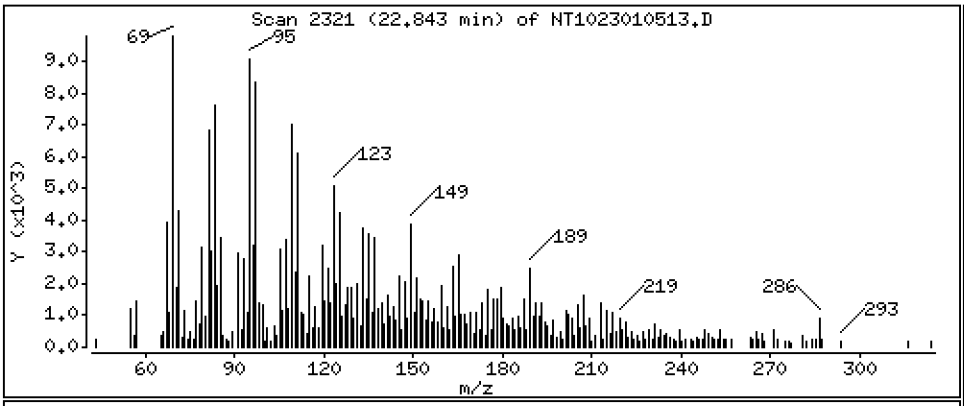
Operator: VTS

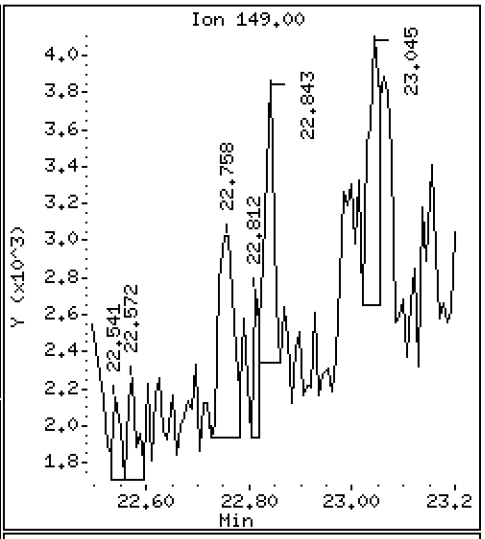
Column phase: ZB-5msi

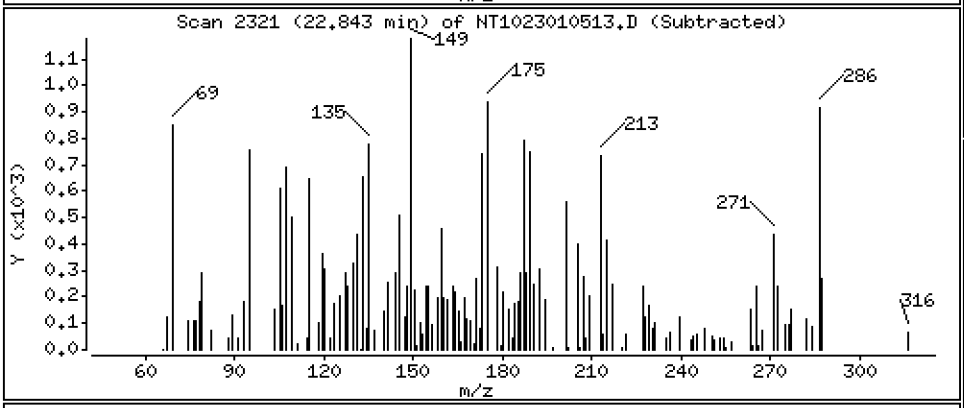
Column diameter: 0.25

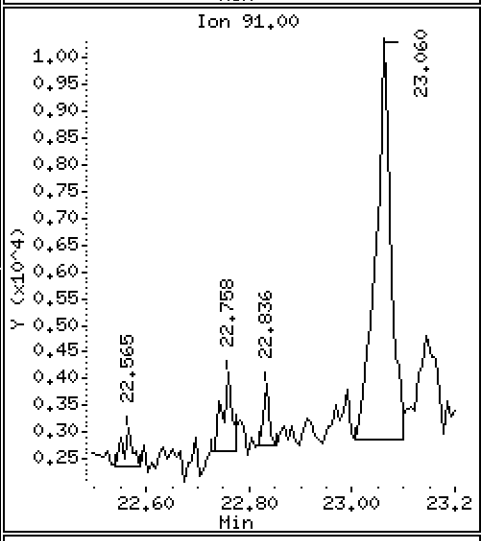
67 Butylbenzylphthalate

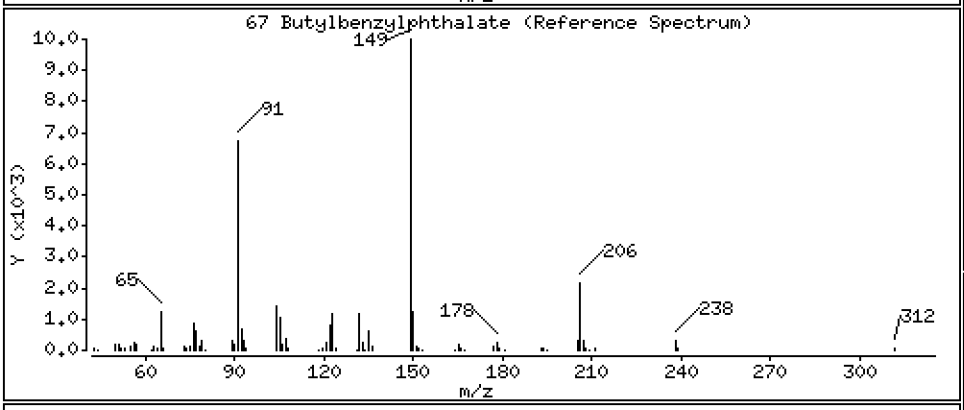
Concentration: 0.07960 ug/mL

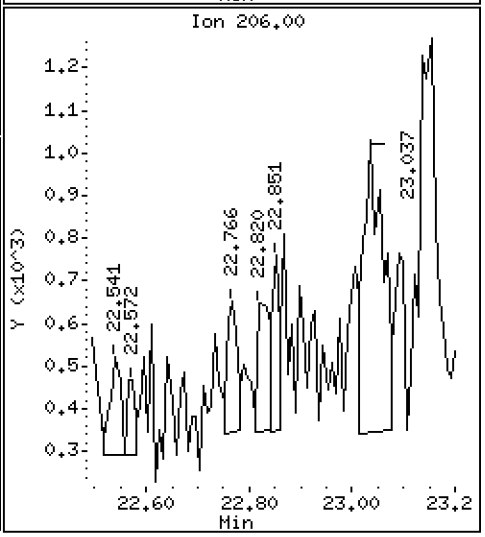


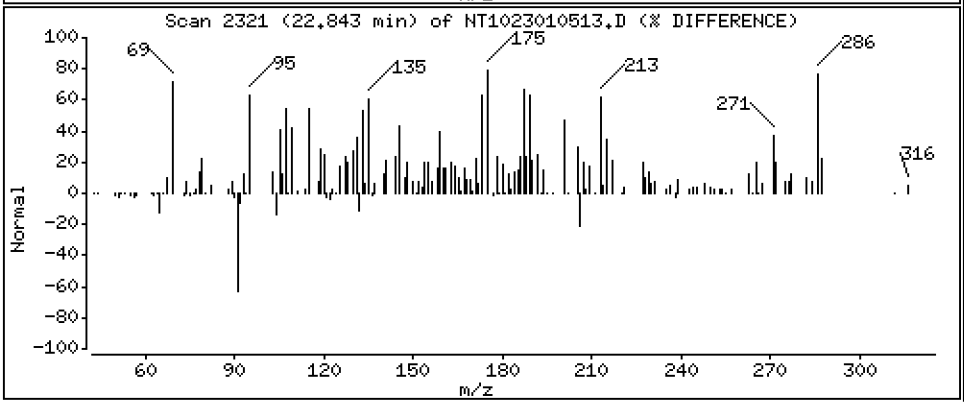












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

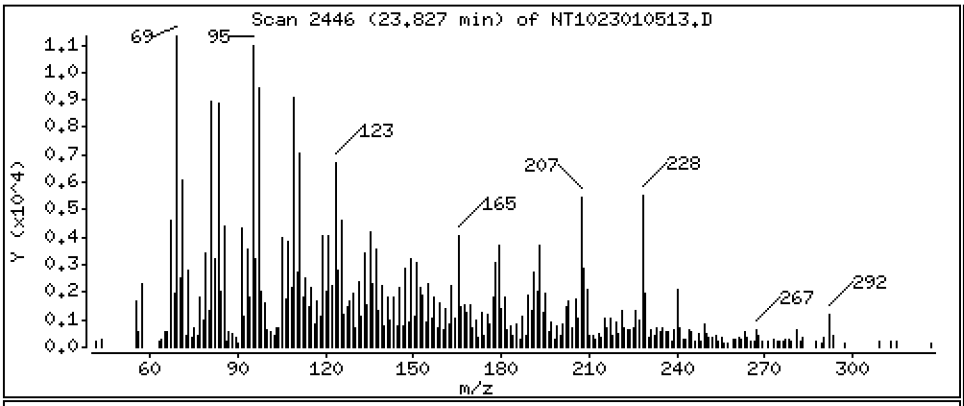
Operator: VTS

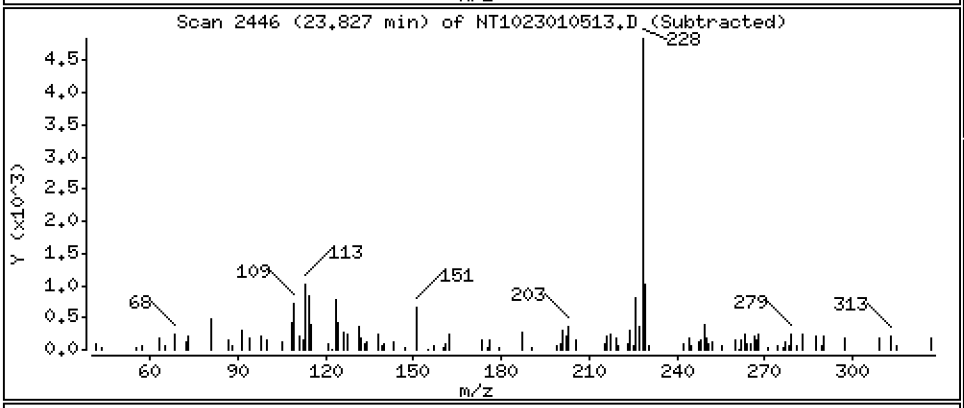
Column phase: ZB-5msi

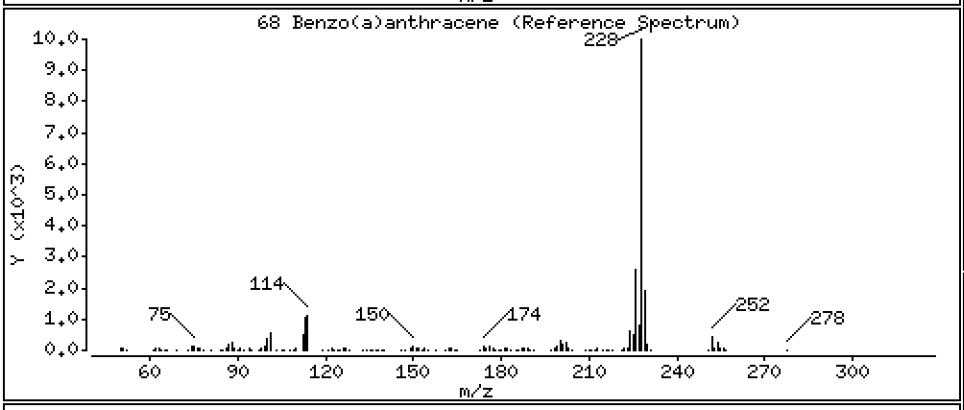
Column diameter: 0.25

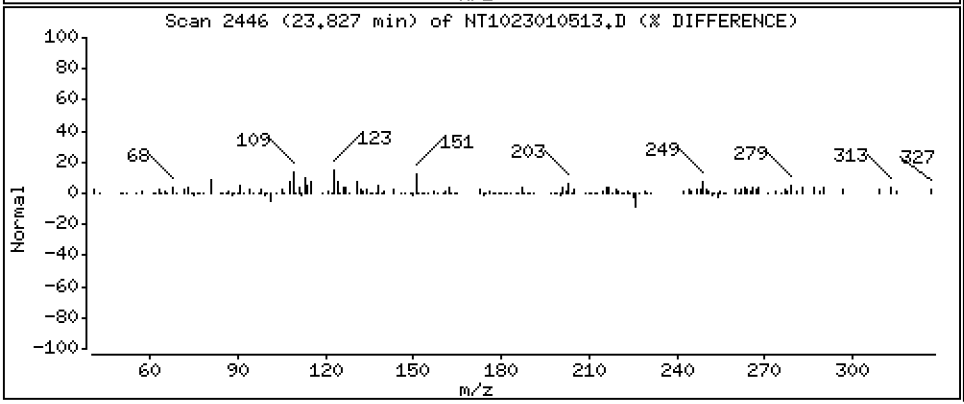
68 Benzo(a)anthracene

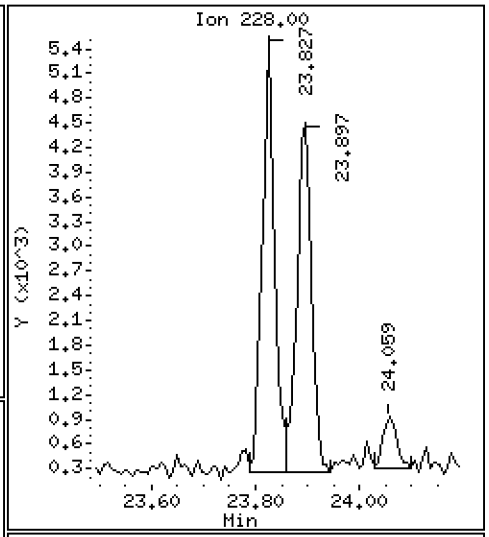
Concentration: 0.3276 ug/mL

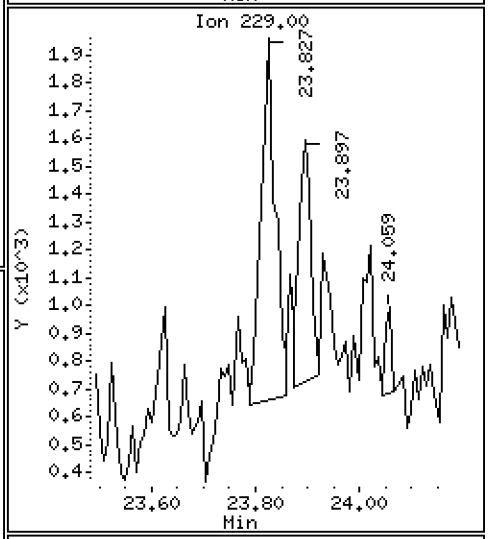


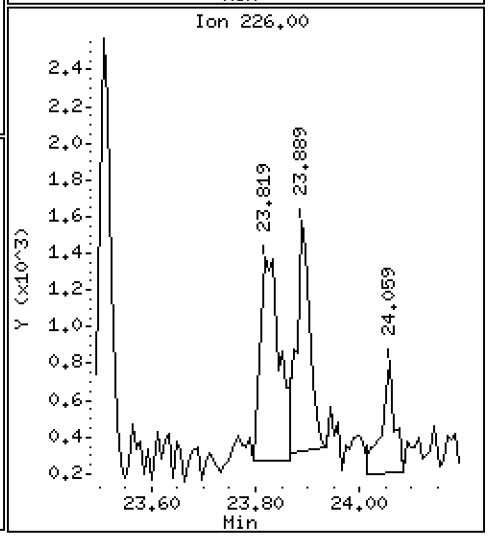












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

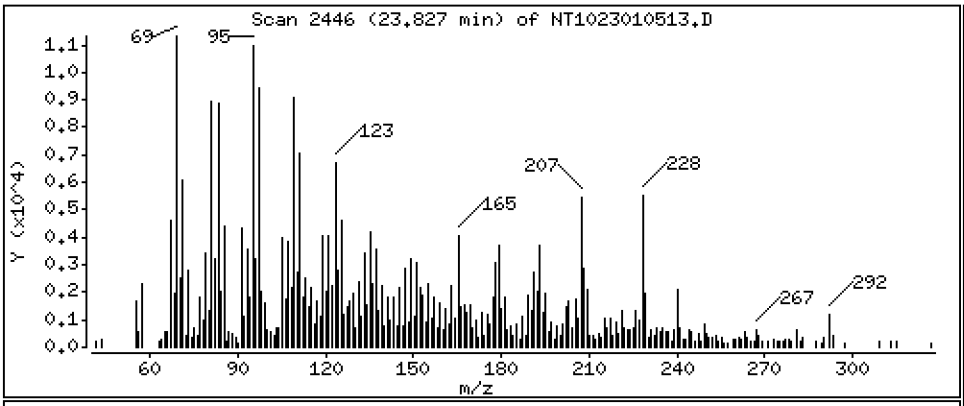
Operator: VTS

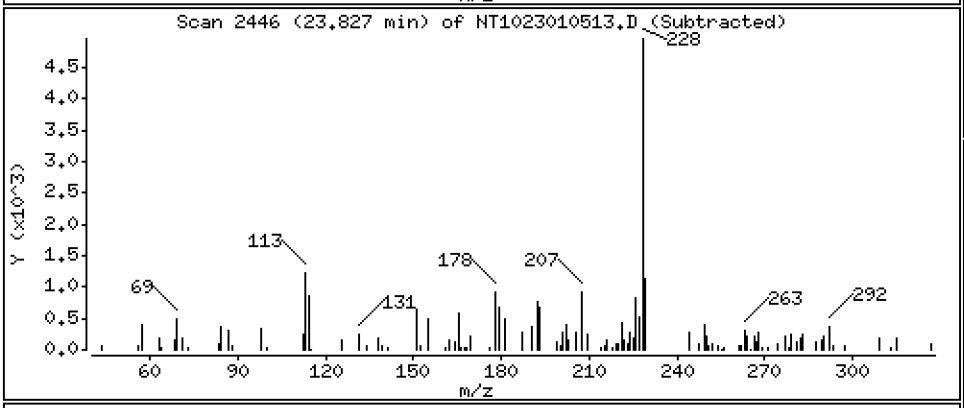
Column phase: ZB-5msi

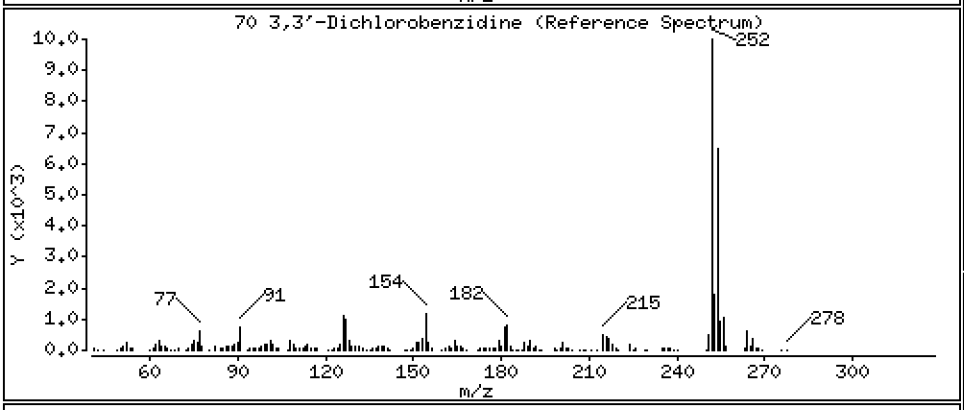
Column diameter: 0.25

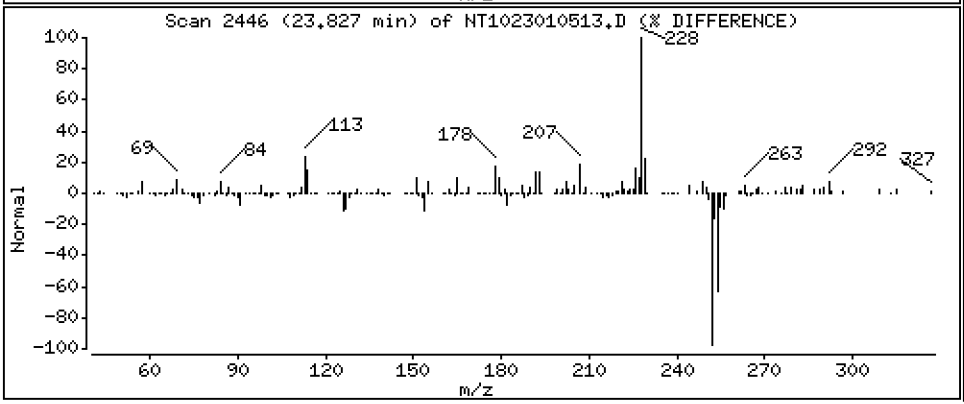
70 3,3'-Dichlorobenzidine

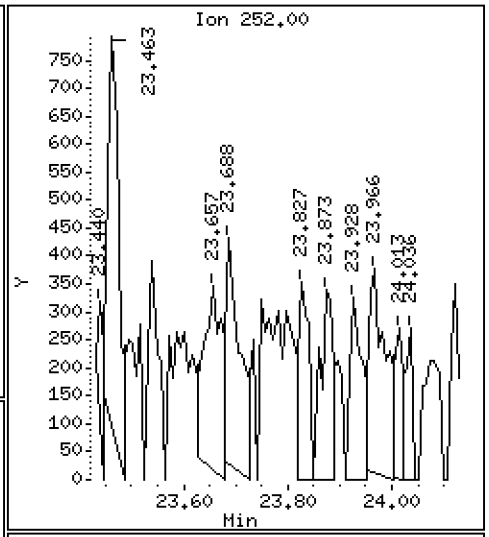
Concentration: 0.05316 ug/mL

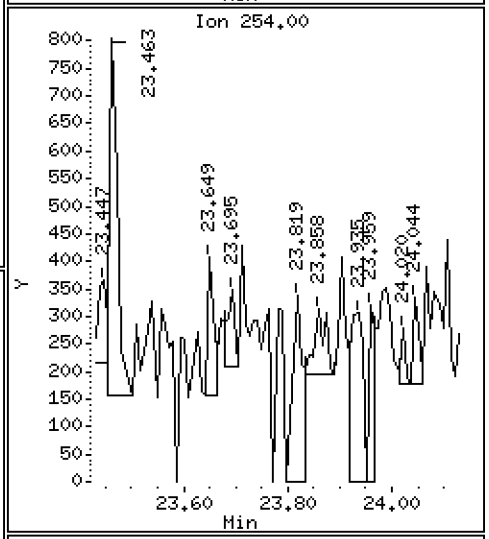


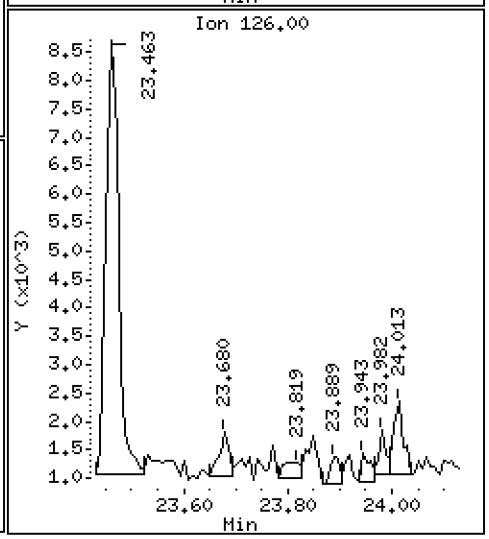












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

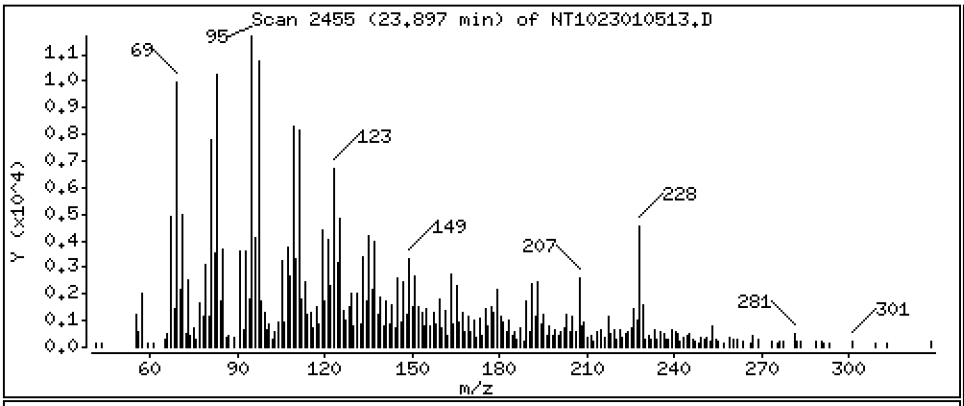
Operator: VTS

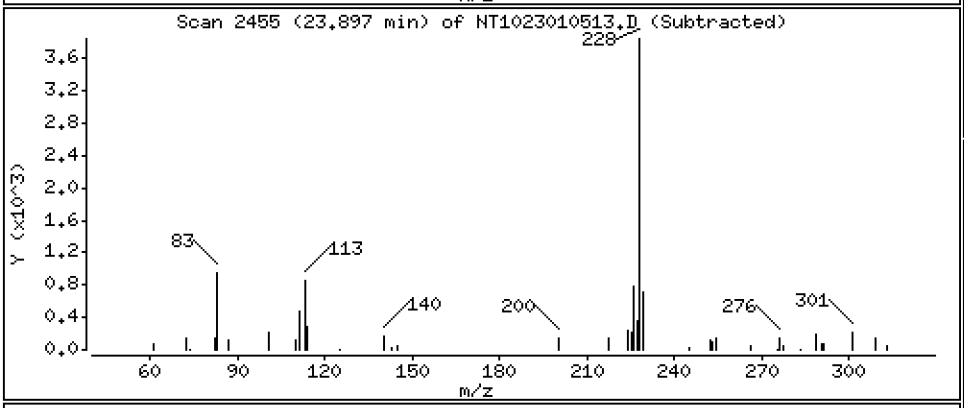
Column phase: ZB-5msi

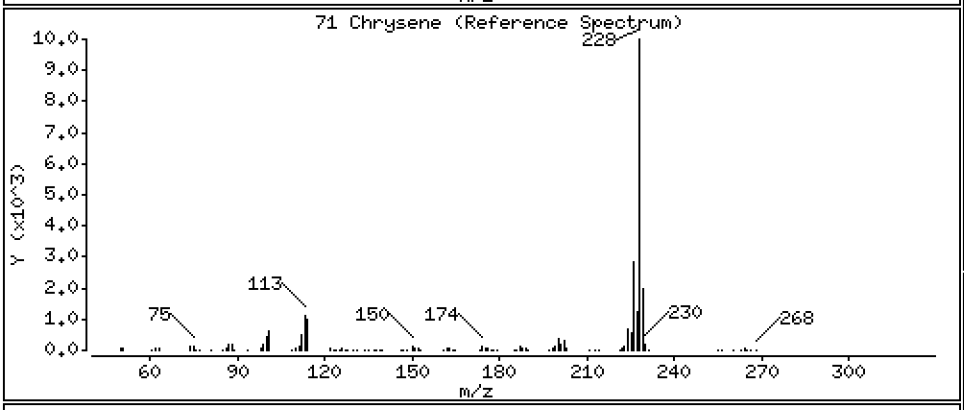
Column diameter: 0.25

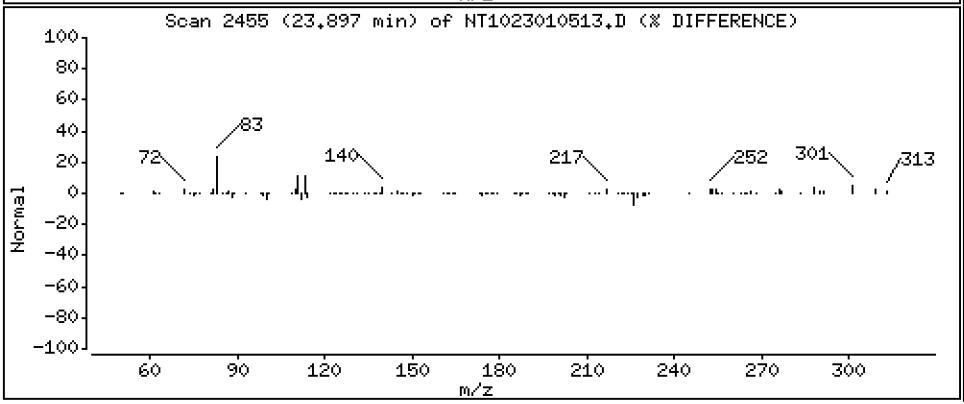
71 Chrysene

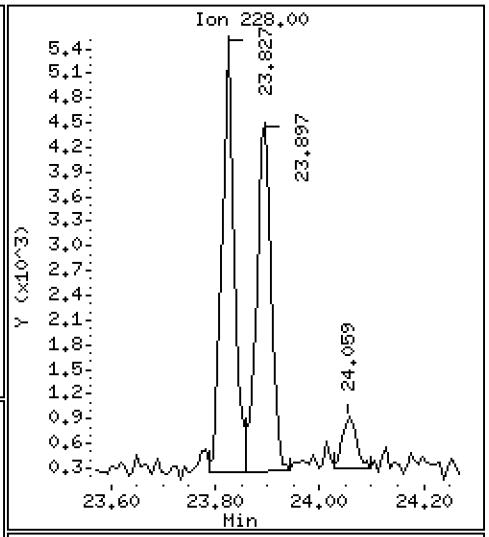
Concentration: 0.3443 ug/mL

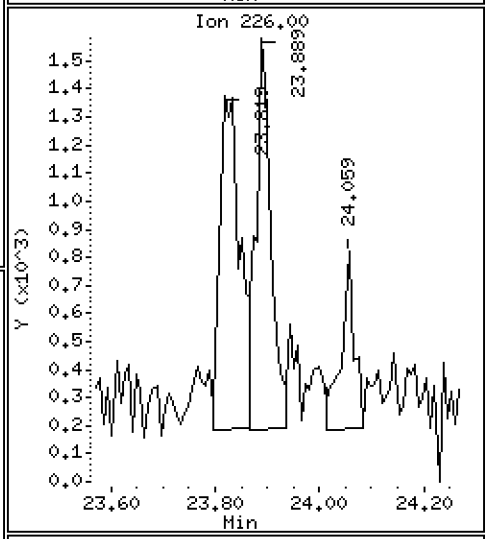


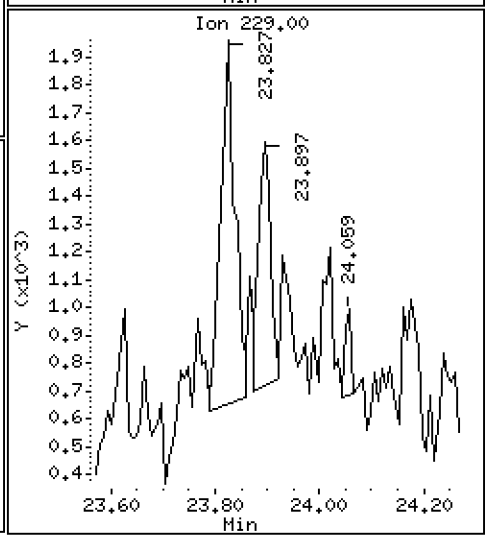












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

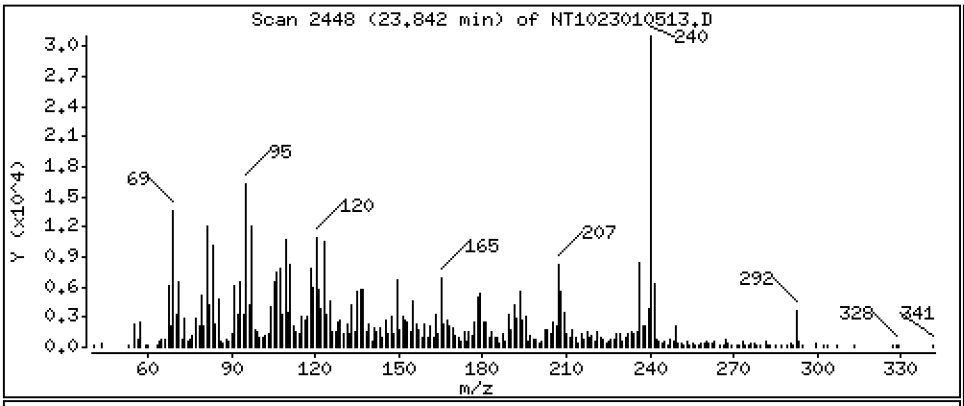
Operator: VTS

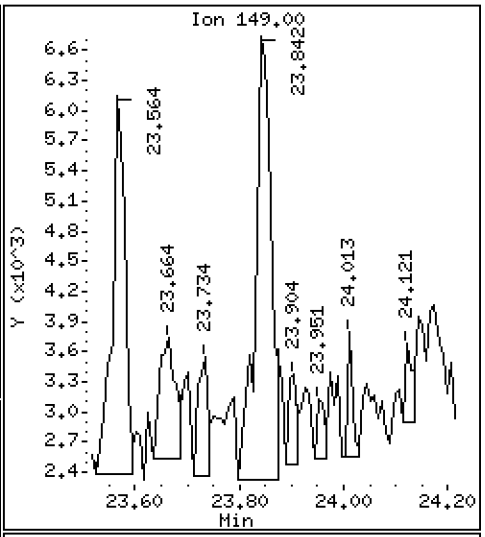
Column phase: ZB-5msi

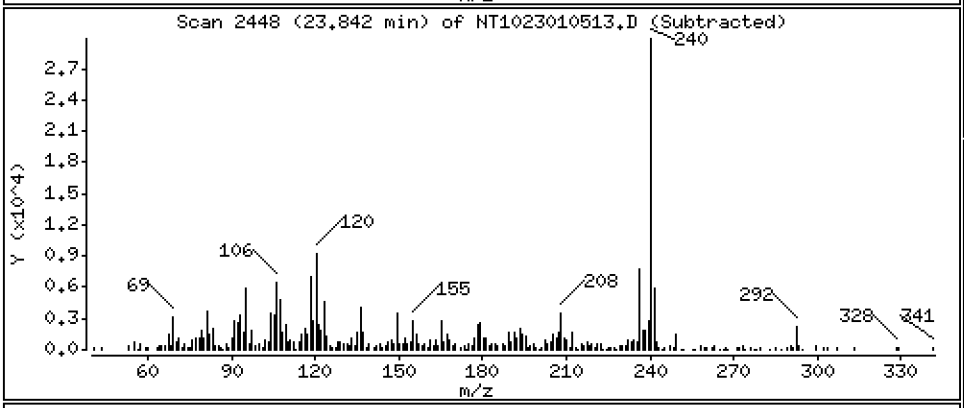
Column diameter: 0.25

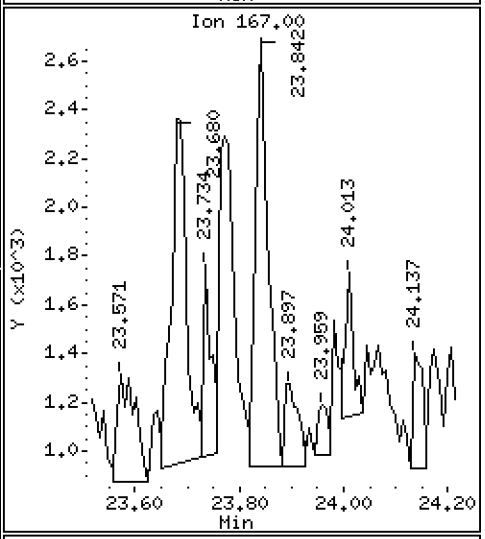
72 bis(2-Ethylhexyl)phthalate

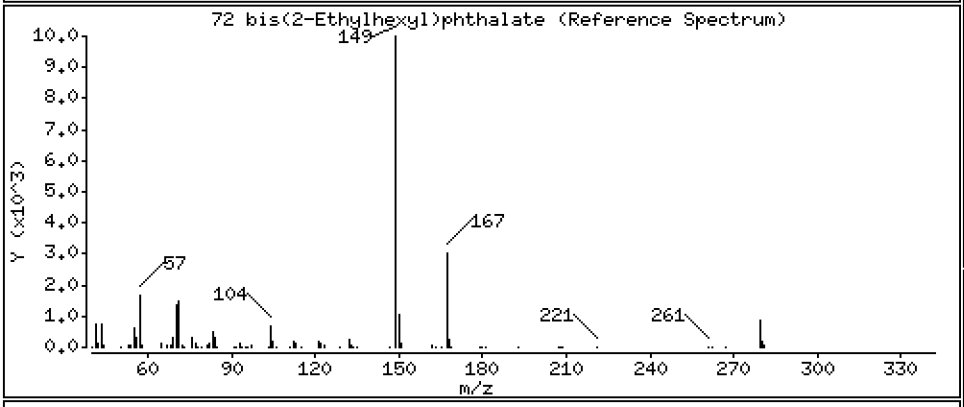
Concentration: 0.2754 ug/mL

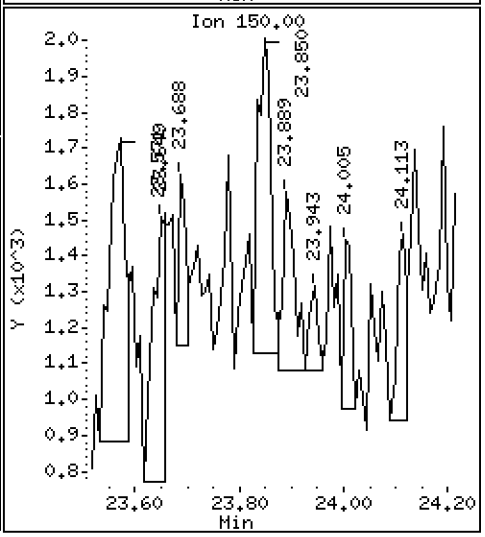


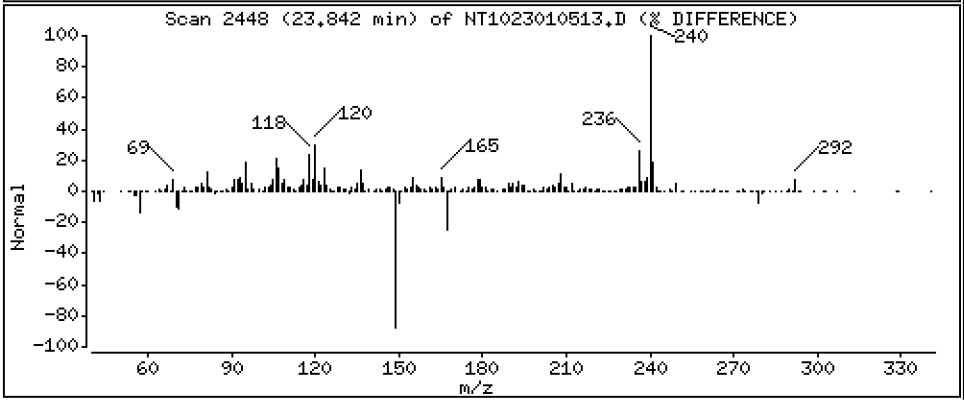












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

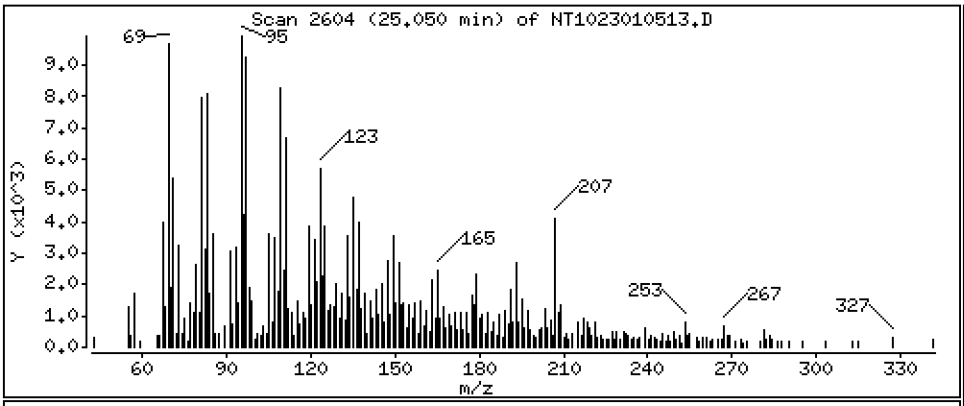
Operator: VTS

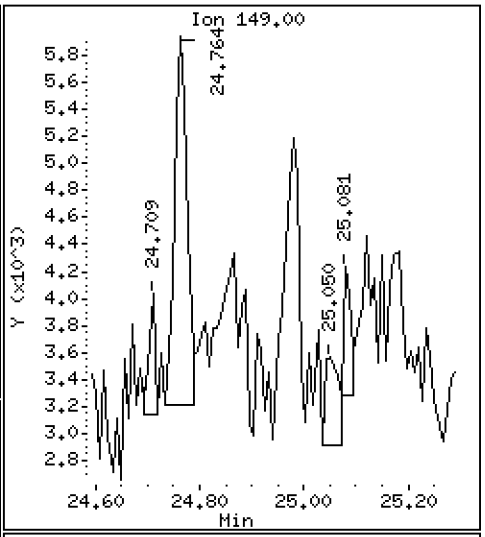
Column phase: ZB-5msi

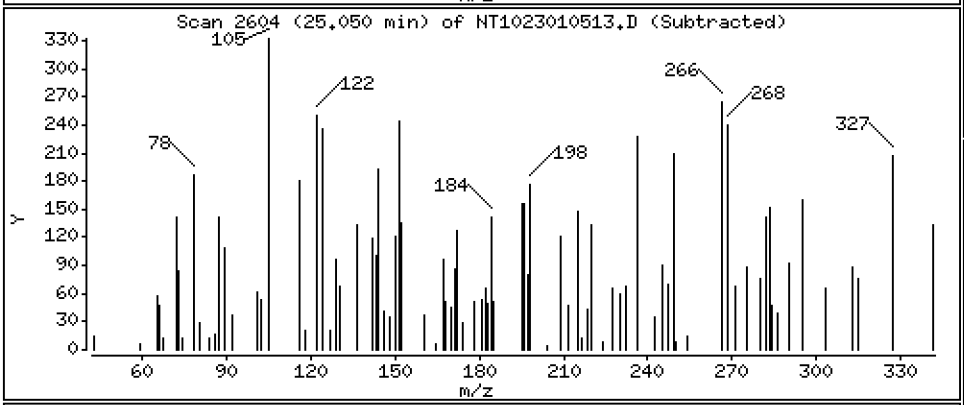
Column diameter: 0.25

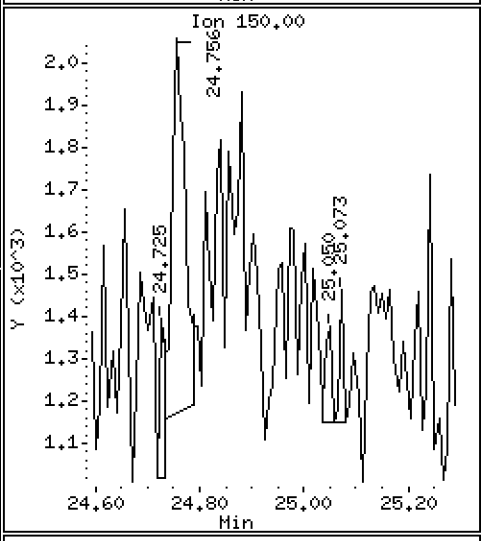
73 Di-n-octylphthalate

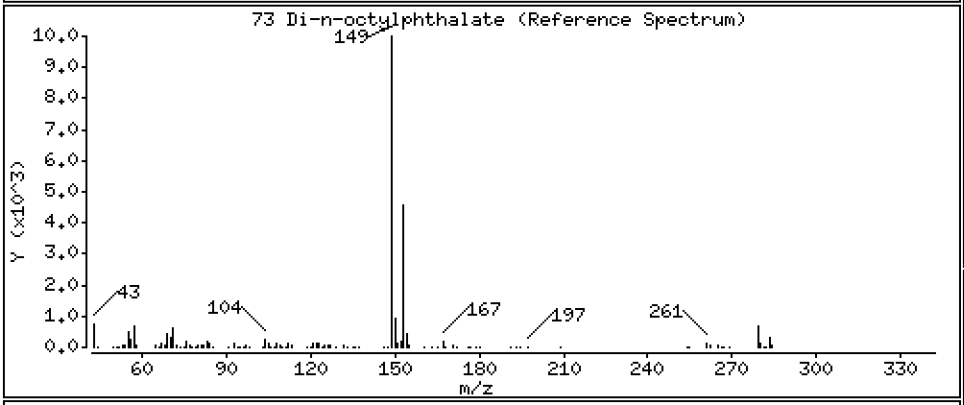
Concentration: 0.02098 ug/mL

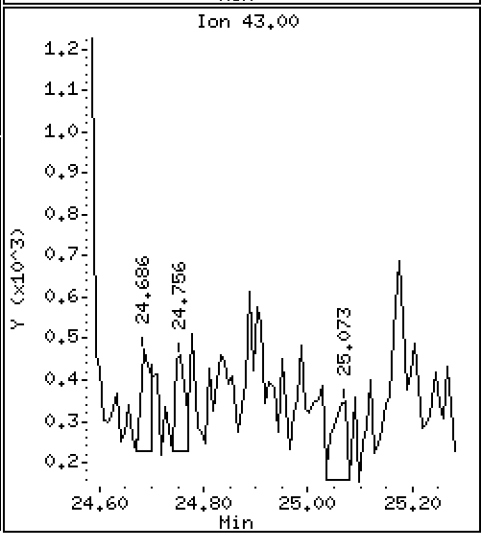


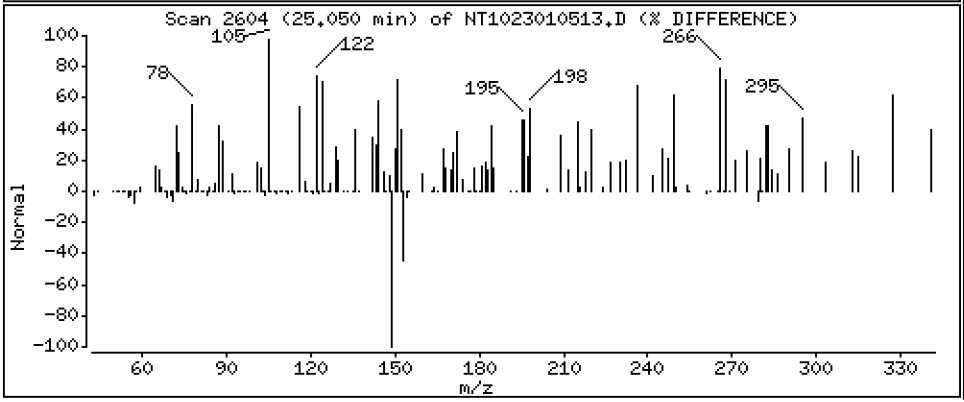












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

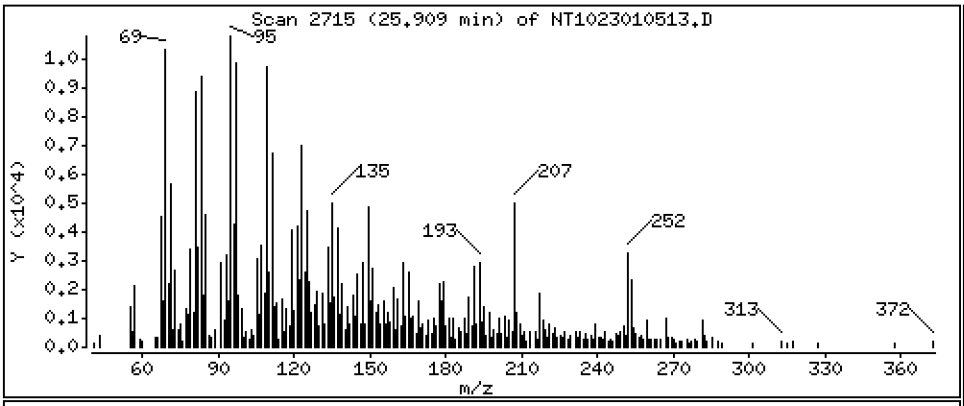
Operator: VTS

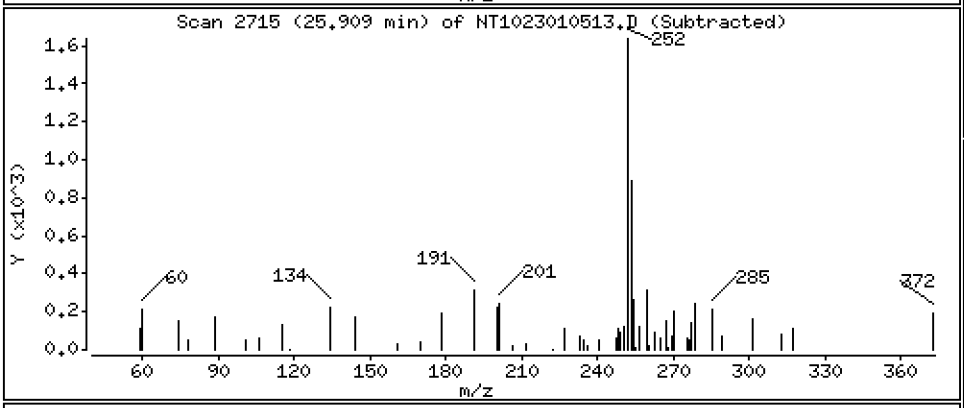
Column phase: ZB-5msi

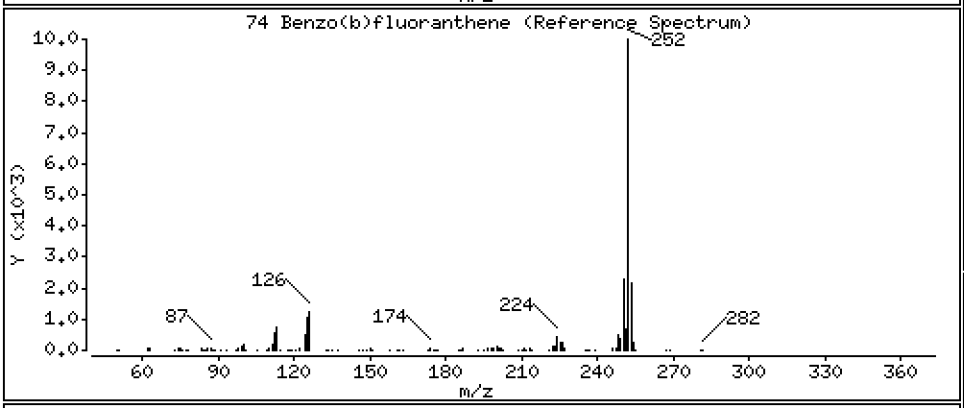
Column diameter: 0.25

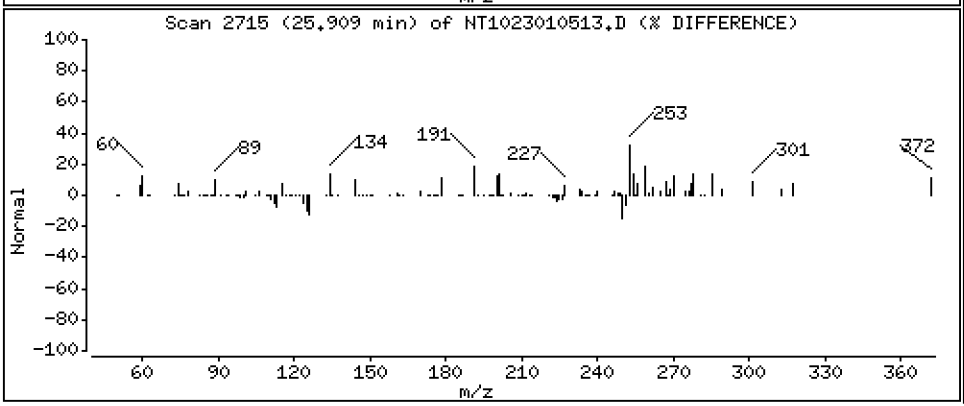
74 Benzo(b)fluoranthene

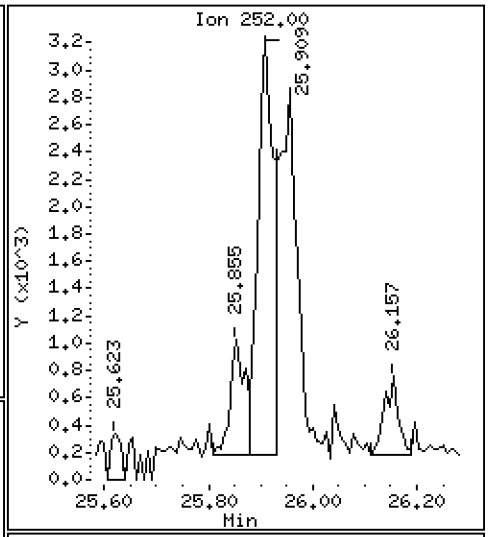
Concentration: 0.2334 ug/mL

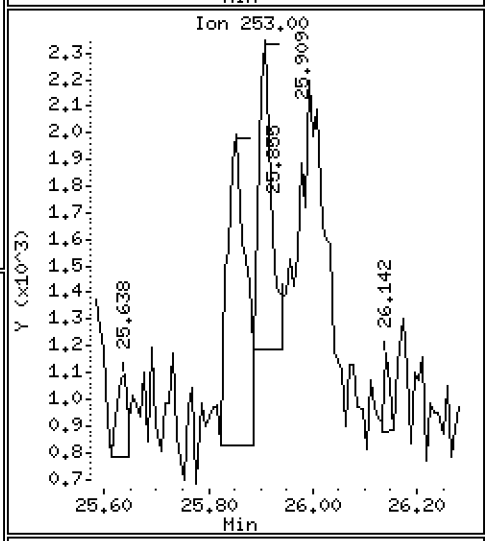


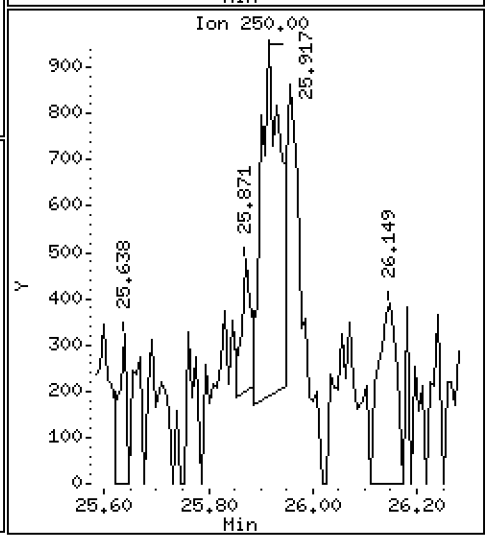












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

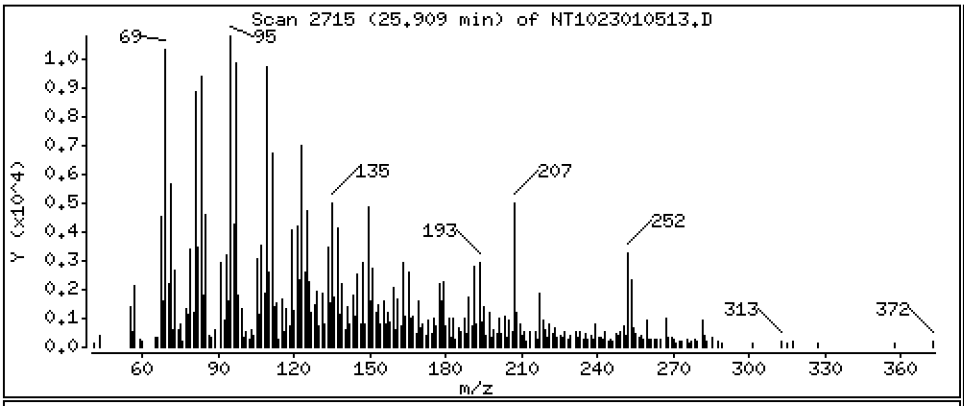
Operator: VTS

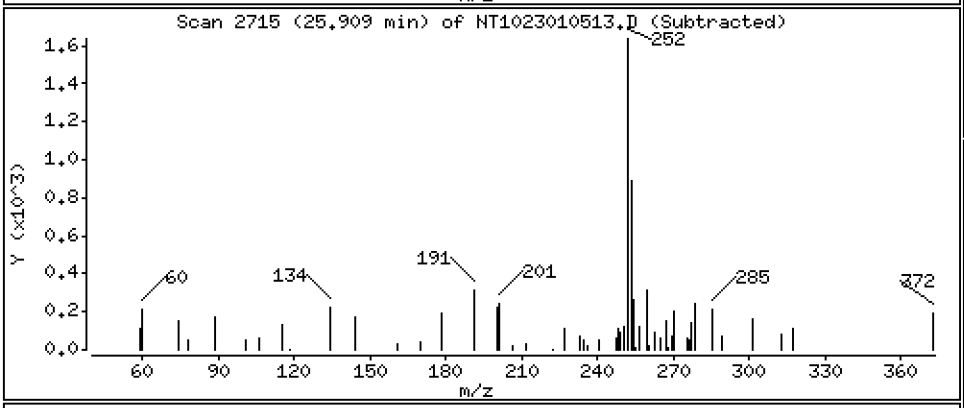
Column phase: ZB-5msi

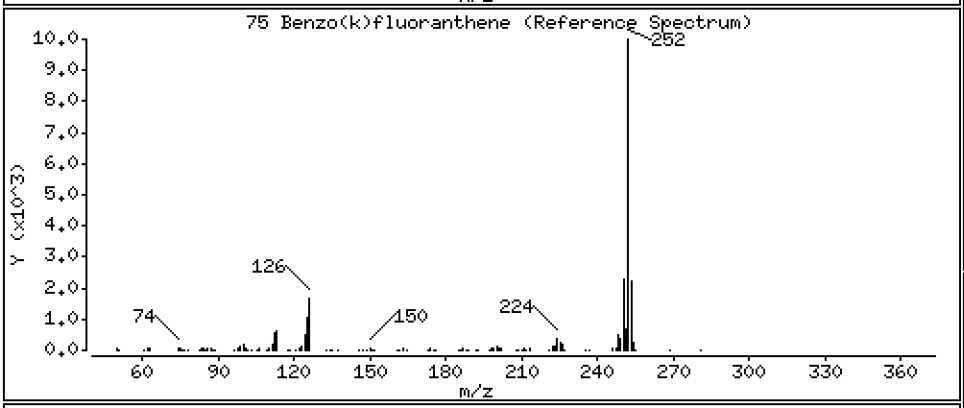
Column diameter: 0.25

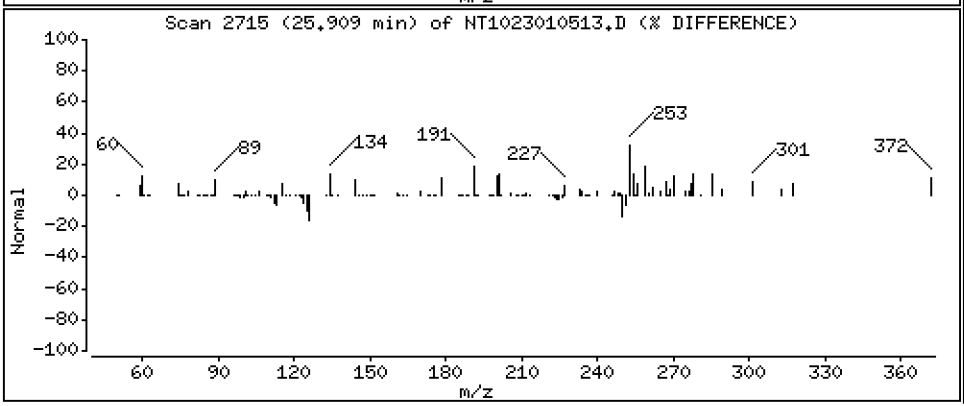
75 Benzo(k)fluoranthene

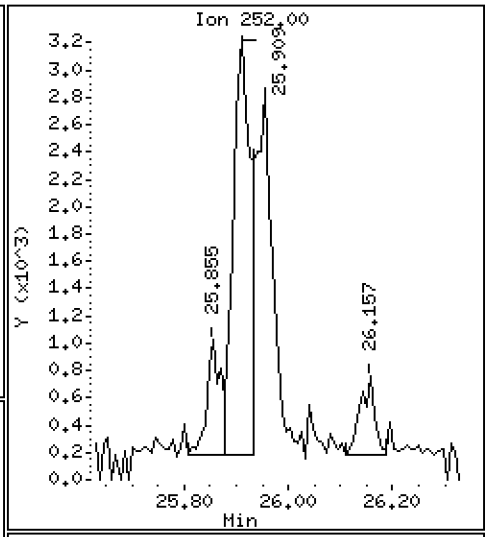
Concentration: 0.2396 ug/mL

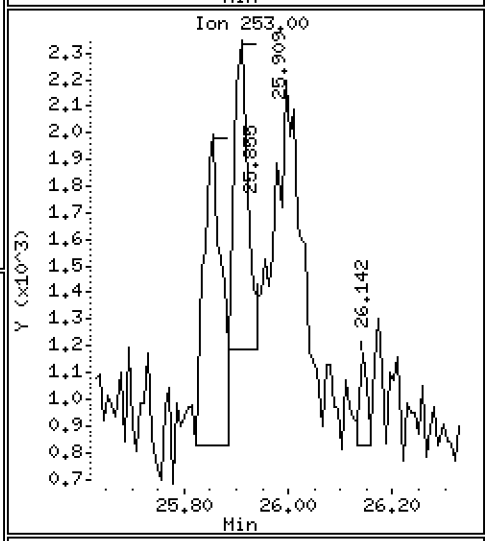


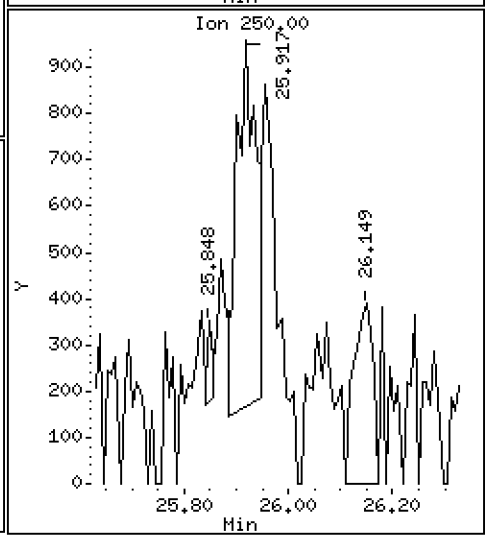












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

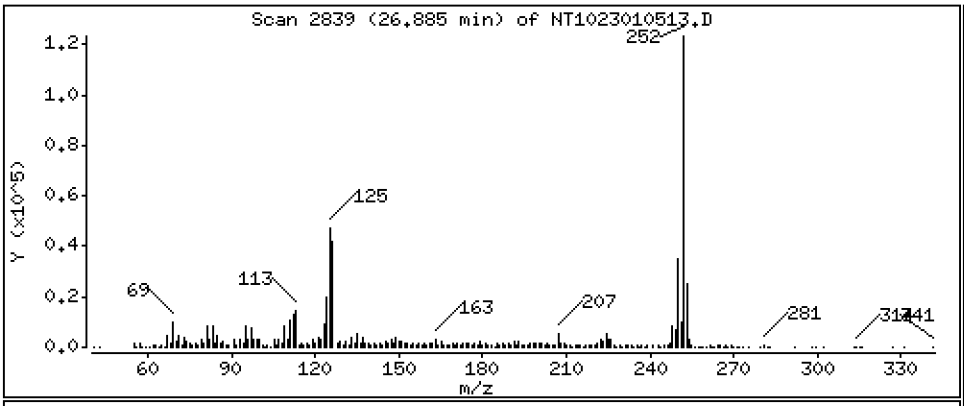
Operator: VTS

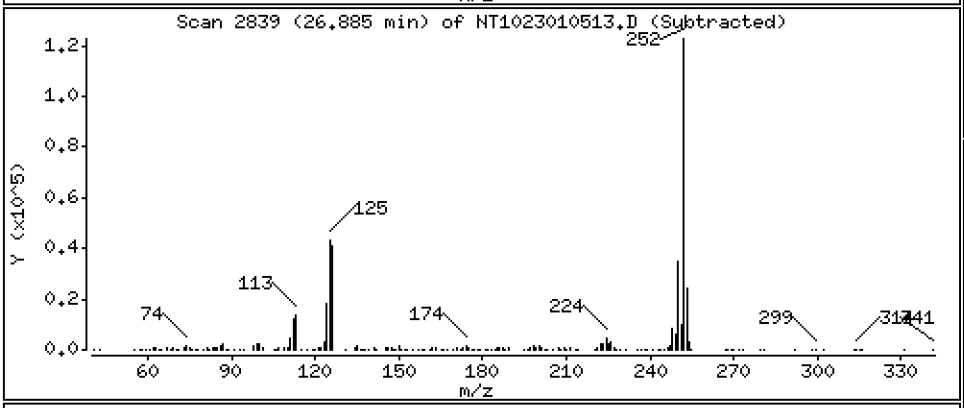
Column phase: ZB-5msi

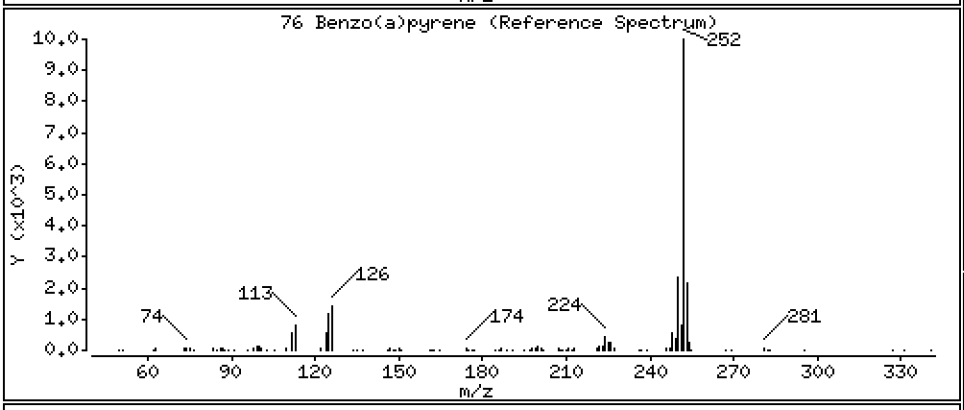
Column diameter: 0.25

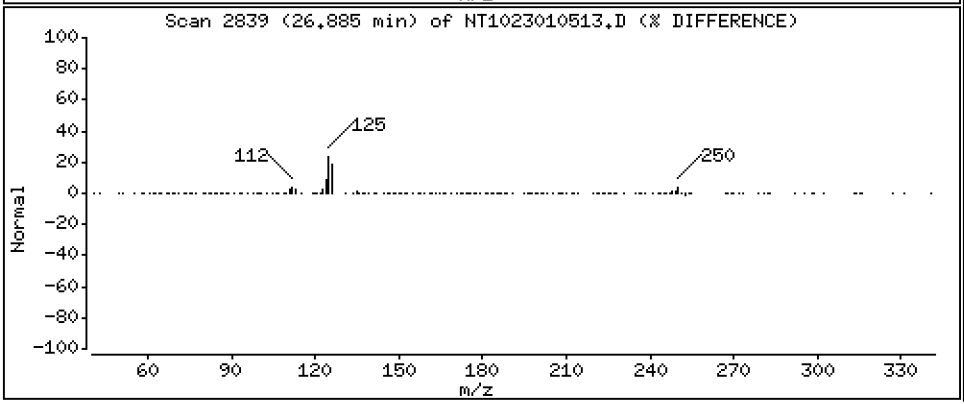
76 Benzo(a)pyrene

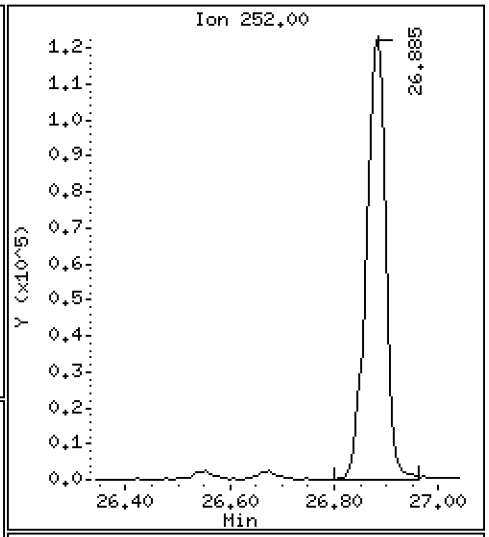
Concentration: 11.28 ug/mL

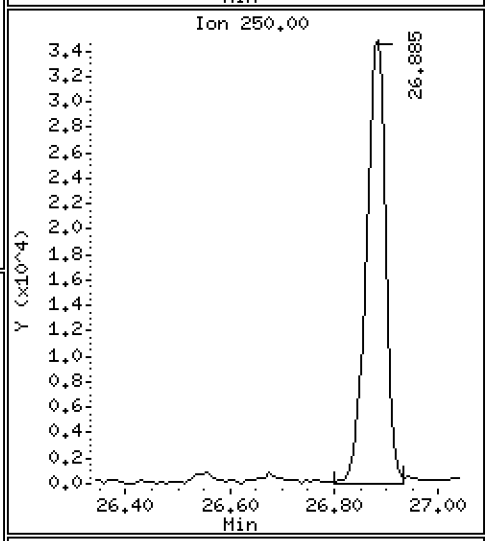


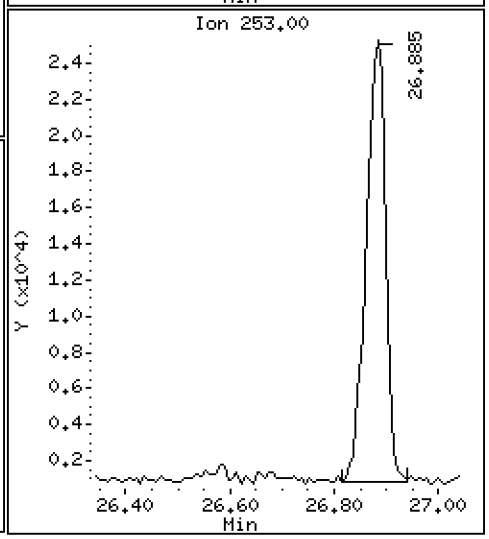












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

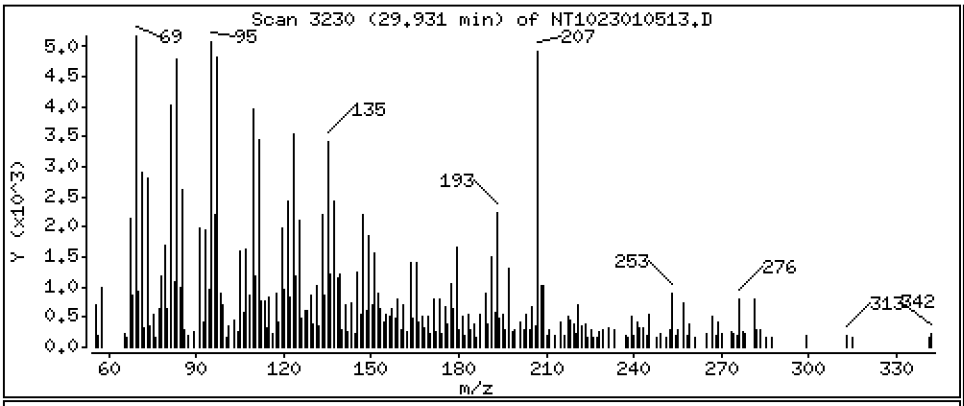
Operator: VTS

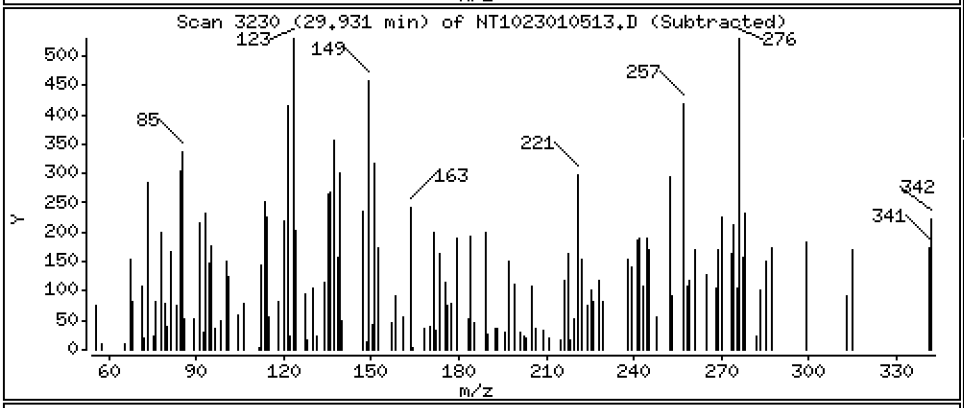
Column phase: ZB-5msi

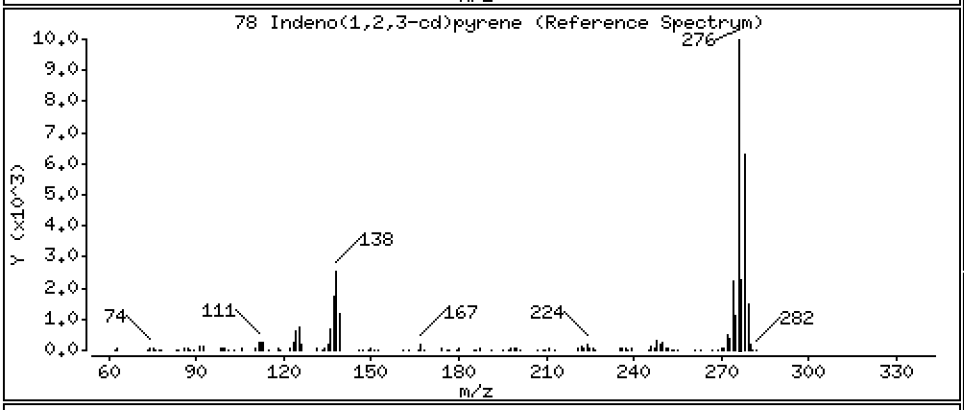
Column diameter: 0.25

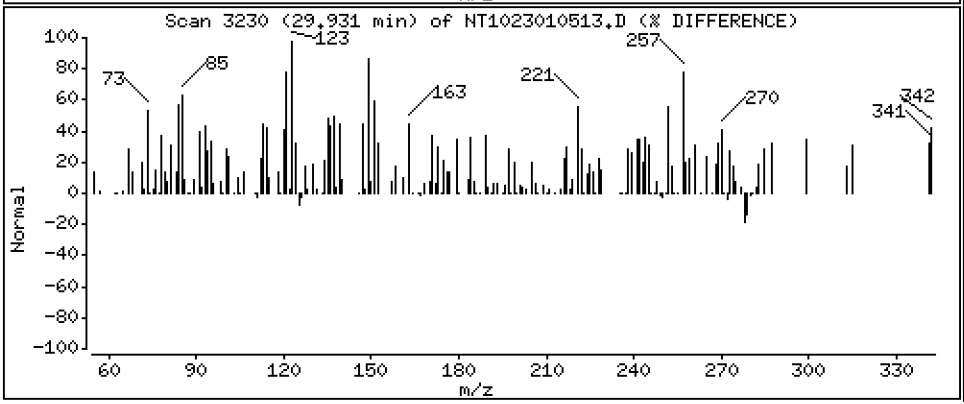
78 Indeno(1,2,3-cd)pyrene

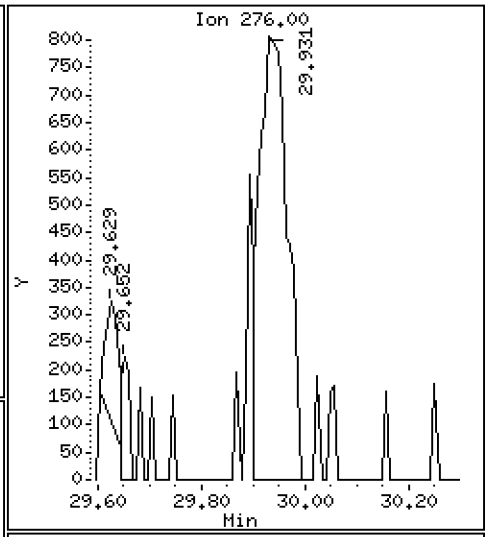
Concentration: 0.1371 ug/mL

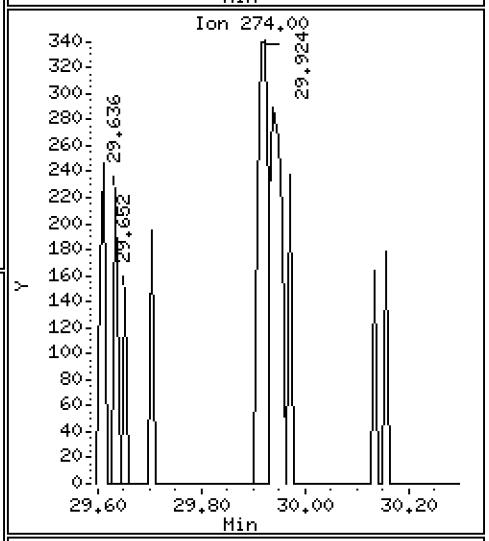


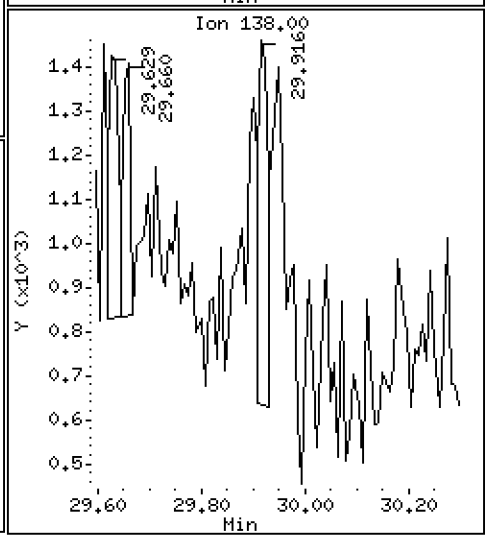












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

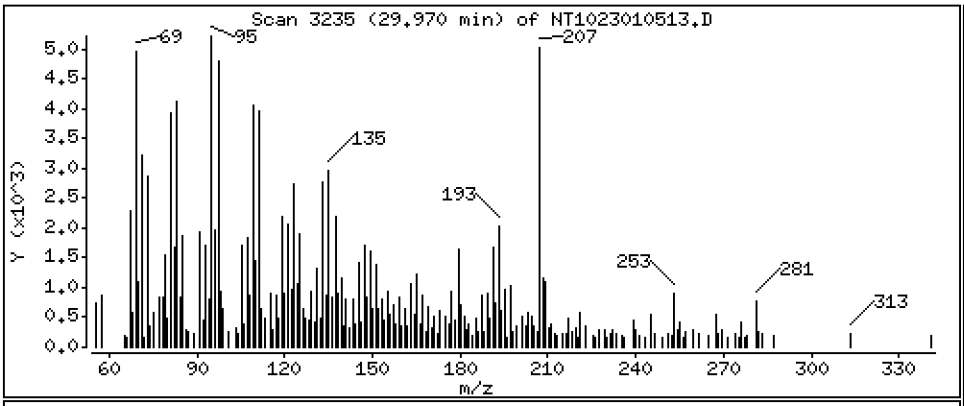
Operator: VTS

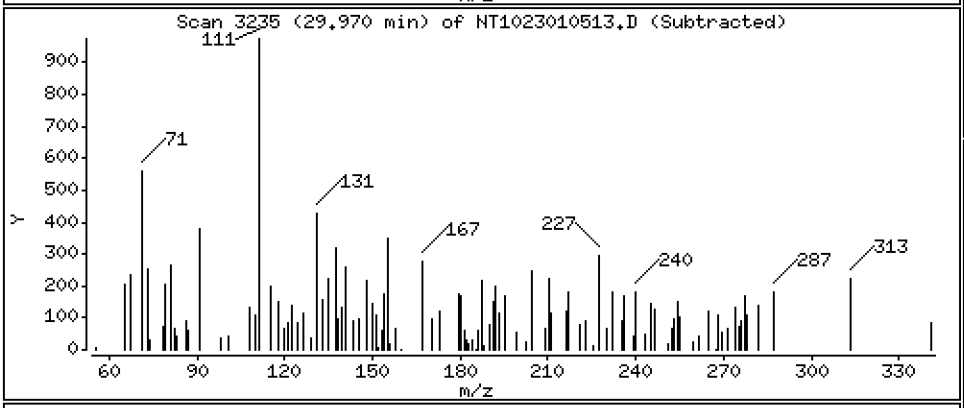
Column phase: ZB-5msi

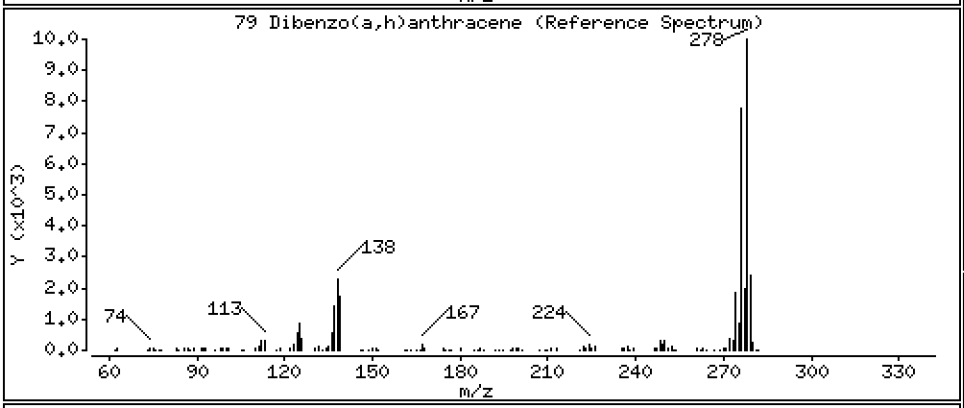
Column diameter: 0.25

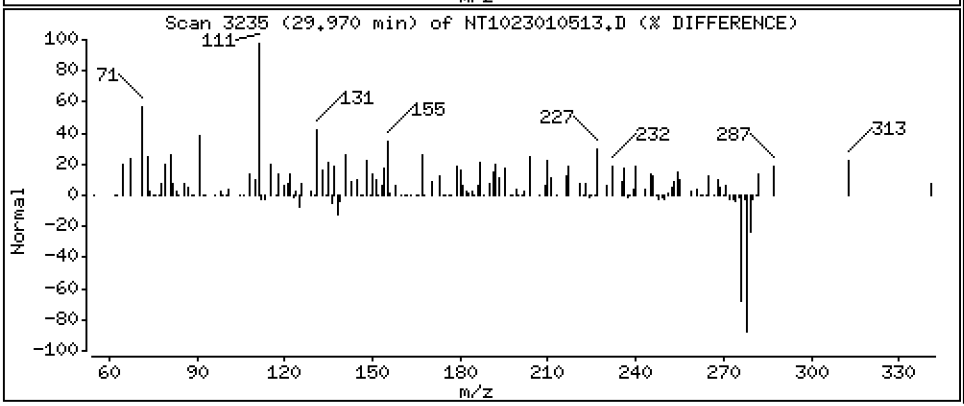
79 Dibenzo(a,h)anthracene

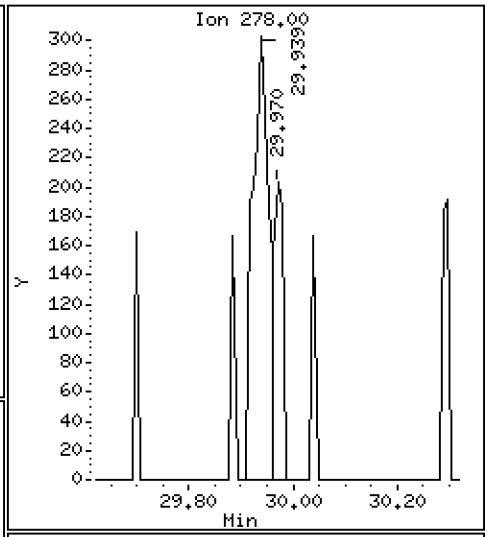
Concentration: 0.01417 ug/mL

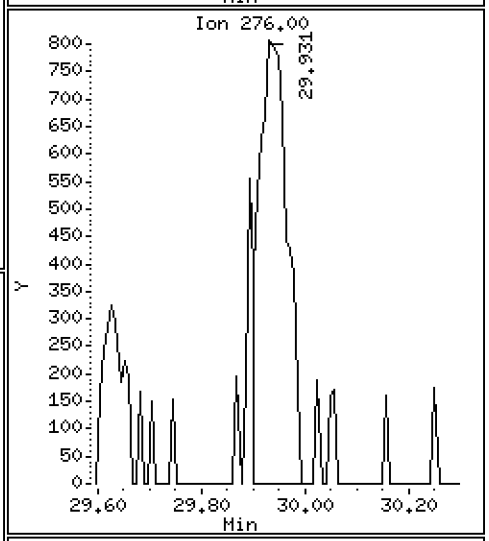


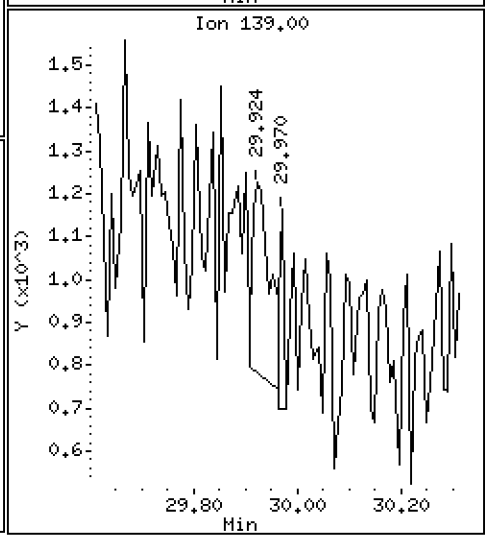












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

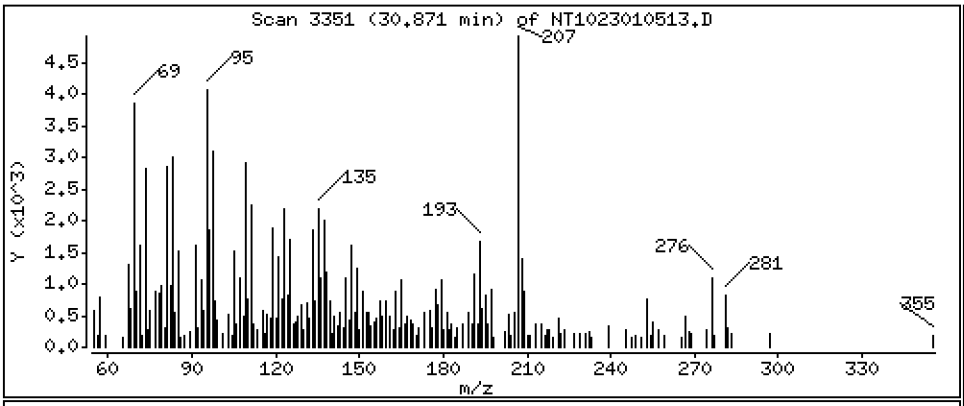
Operator: VTS

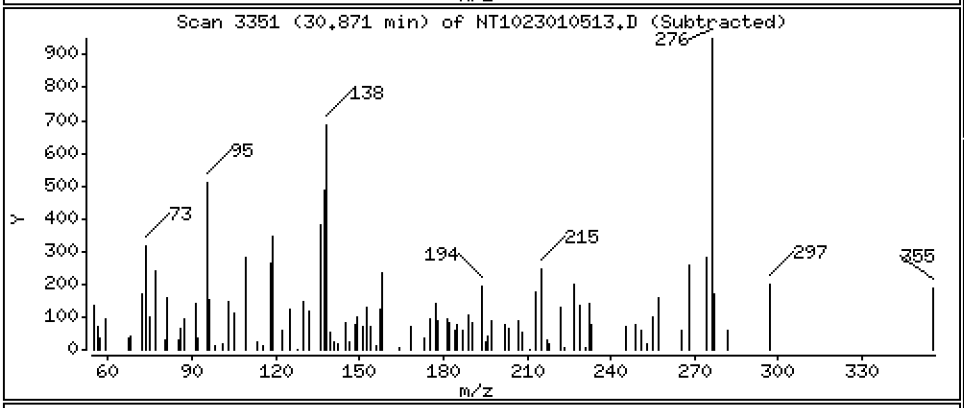
Column phase: ZB-5msi

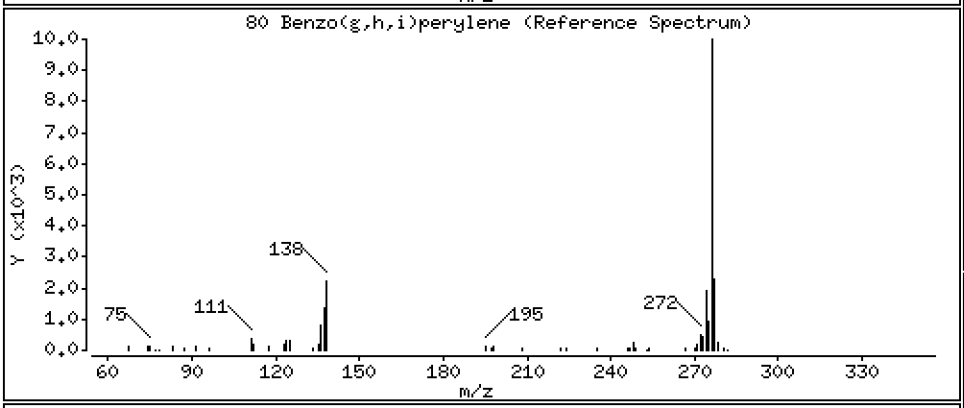
Column diameter: 0.25

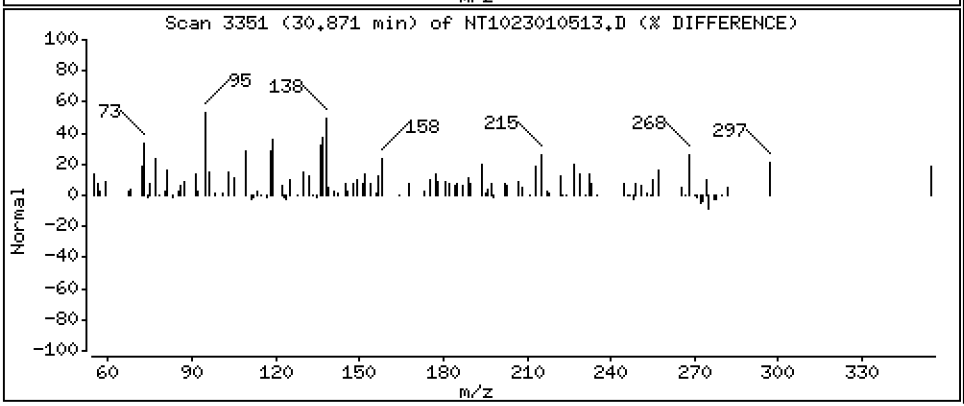
80 Benzo(g,h,i)perylene

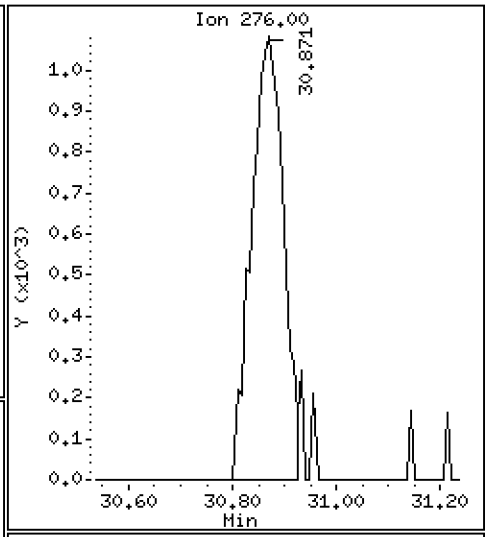
Concentration: 0.2487 ug/mL

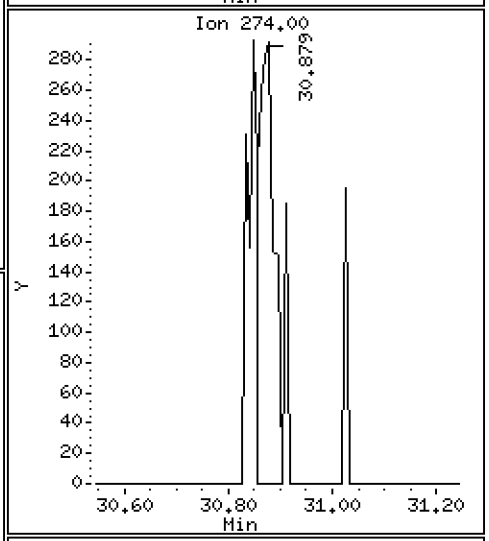


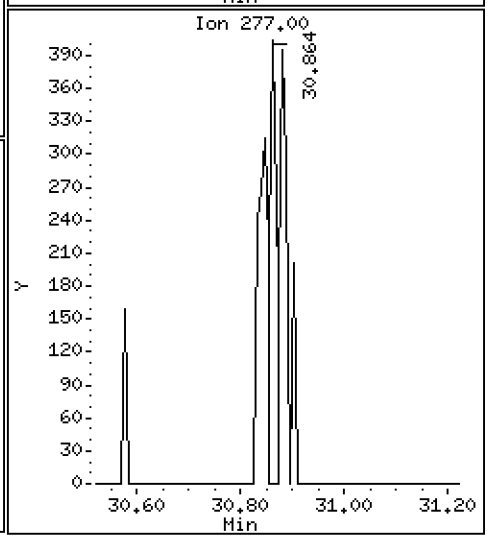












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

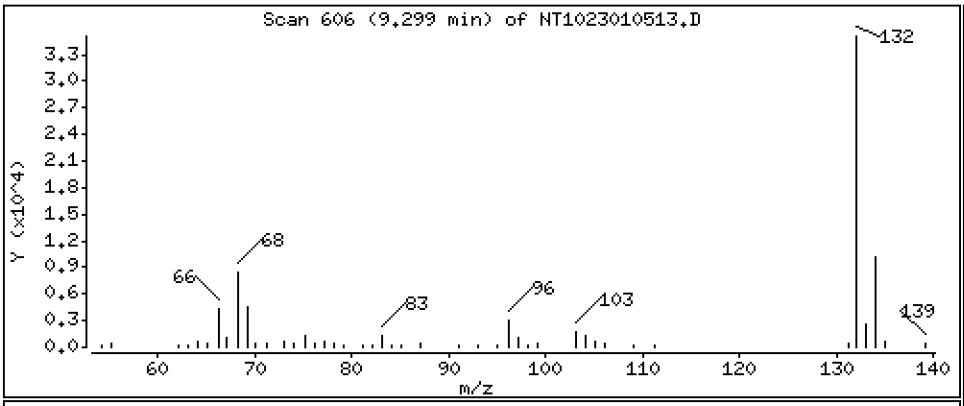
Operator: VTS

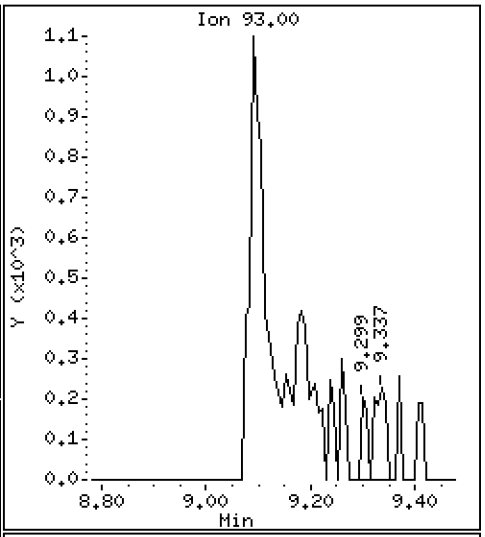
Column phase: ZB-5msi

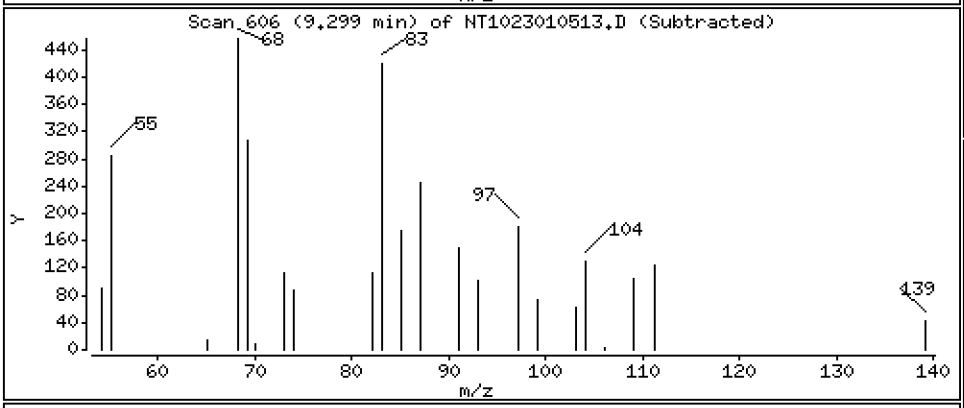
Column diameter: 0.25

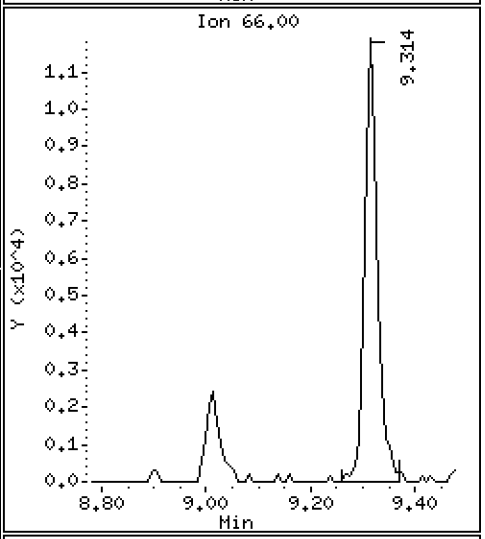
91 Aniline

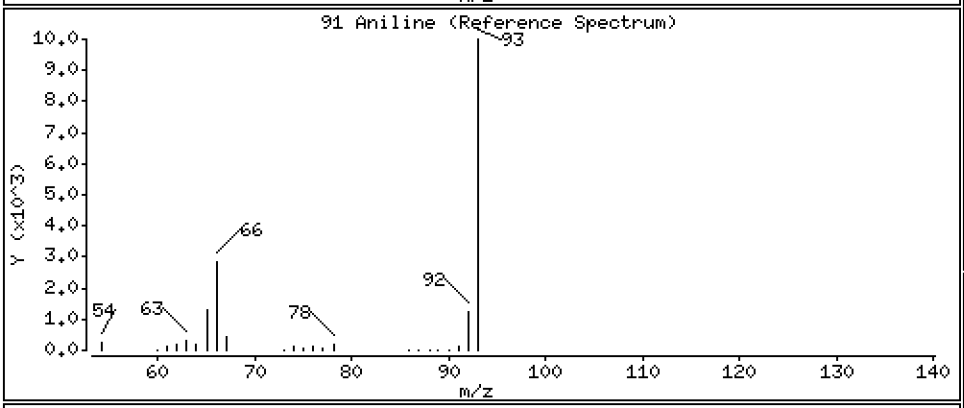
Concentration: 0.006545 ug/mL

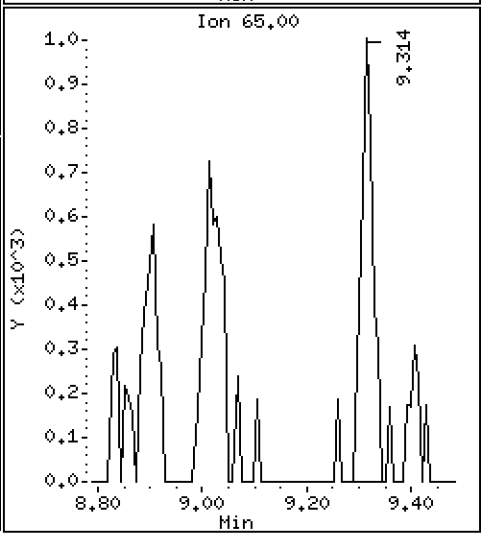


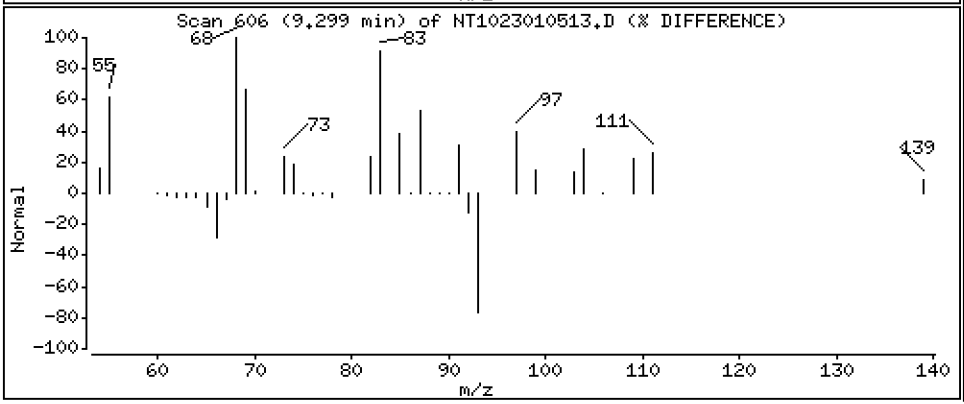












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010513.D

Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

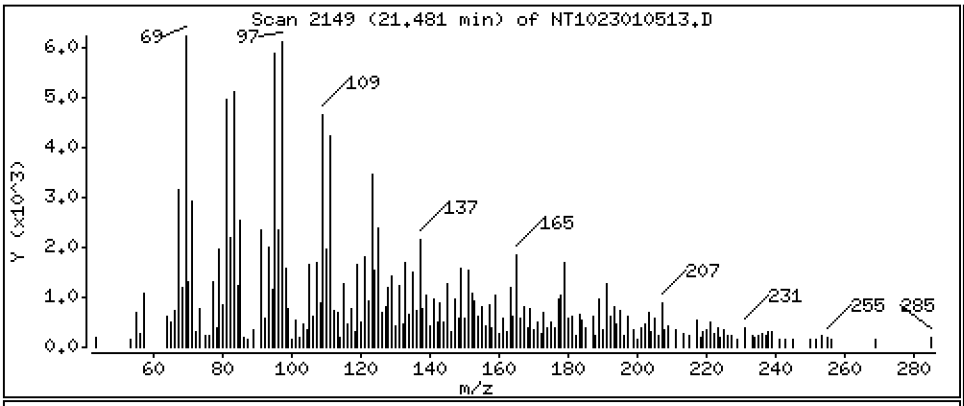
Operator: VTS

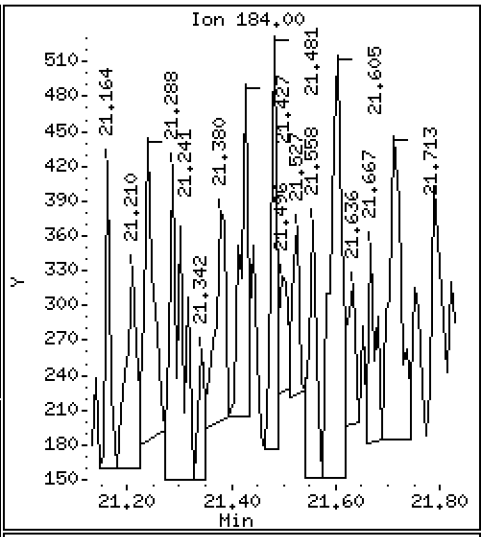
Column phase: ZB-5msi

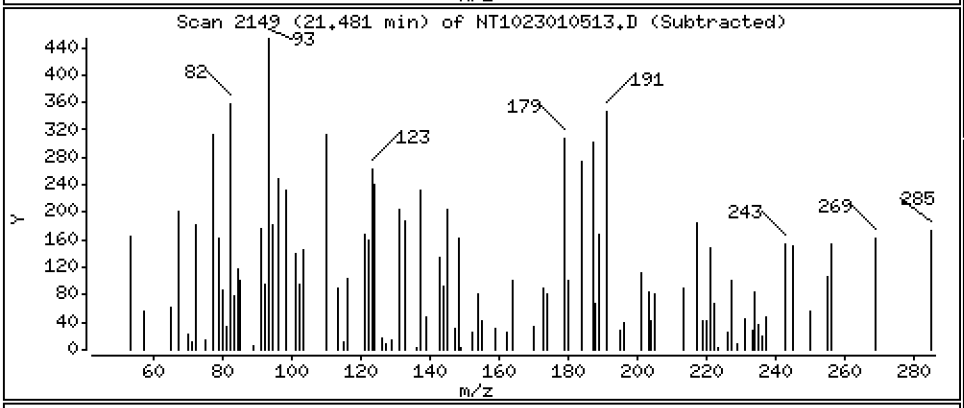
Column diameter: 0.25

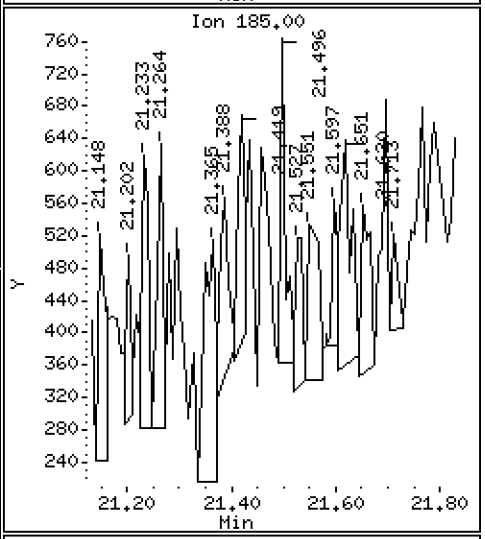
93 Benzidine

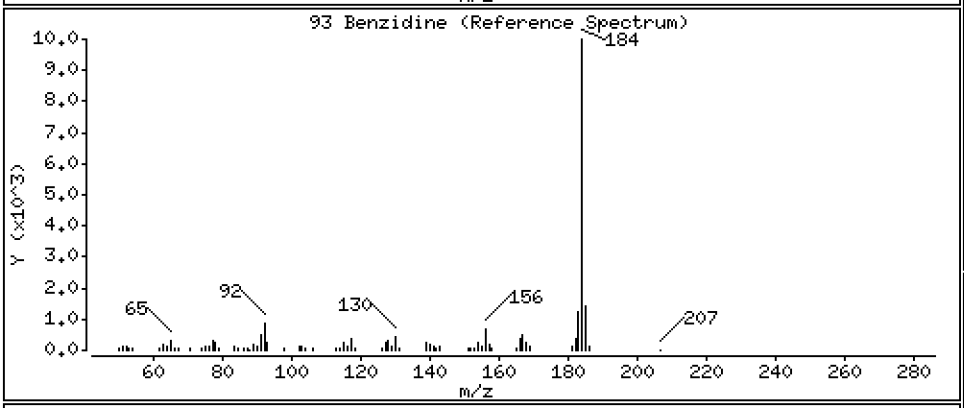
Concentration: 0.01357 ug/mL

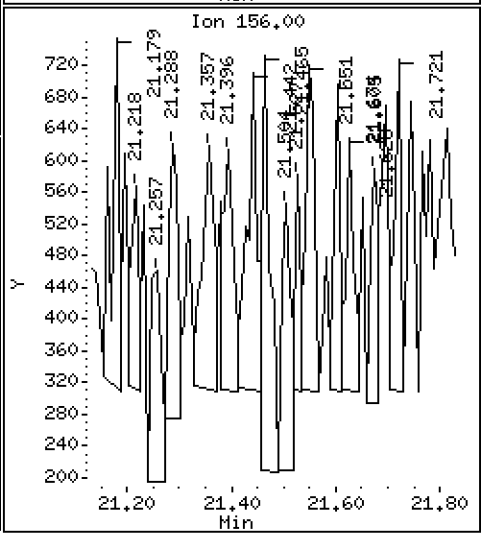


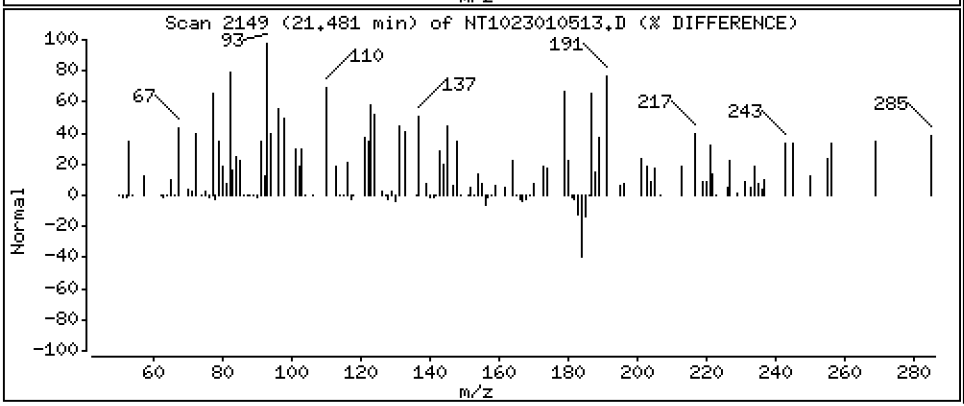












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

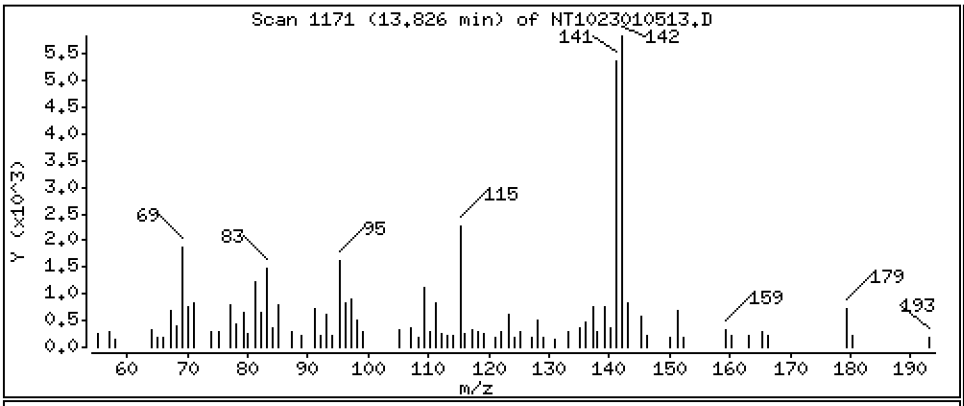
Operator: VTS

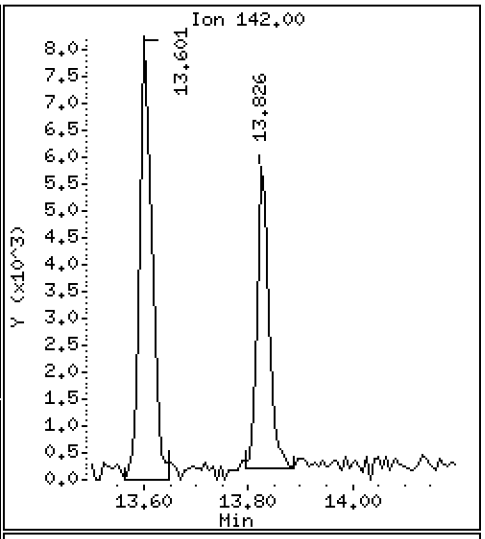
Column phase: ZB-5msi

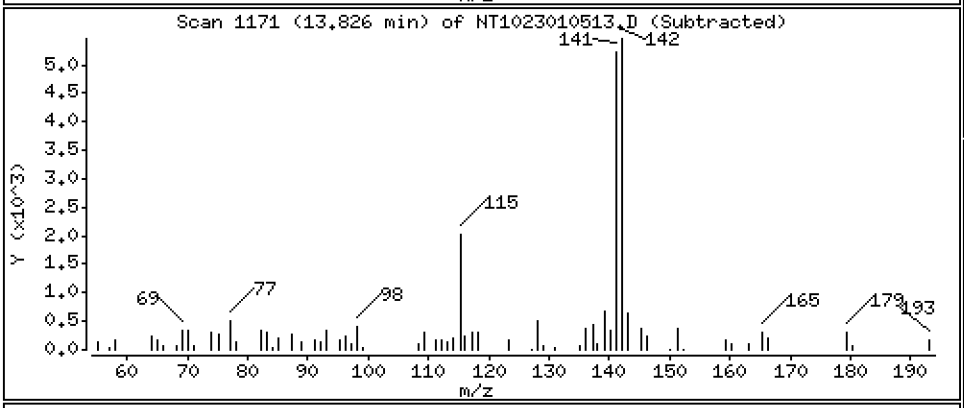
Column diameter: 0.25

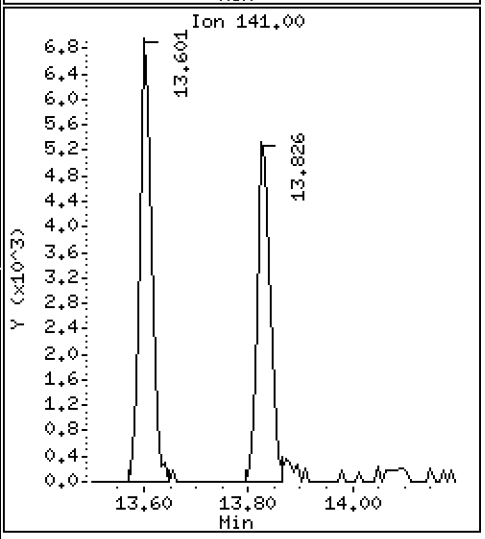
105 1-methylnaphthalene

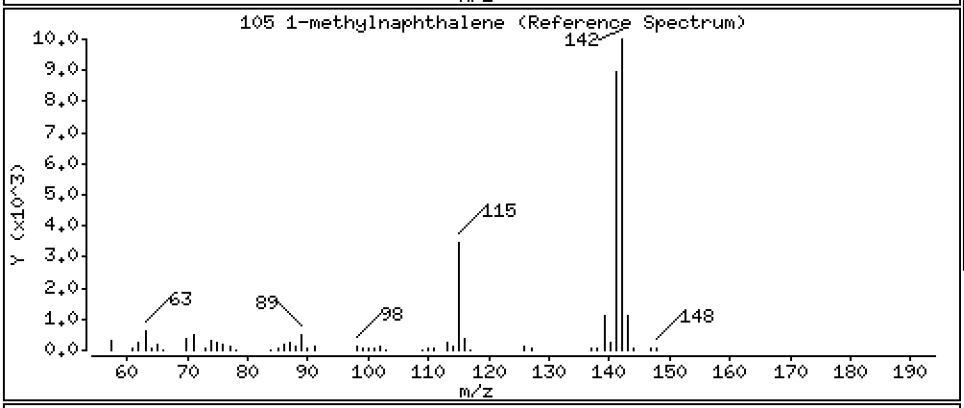
Concentration: 0.1724 ug/mL

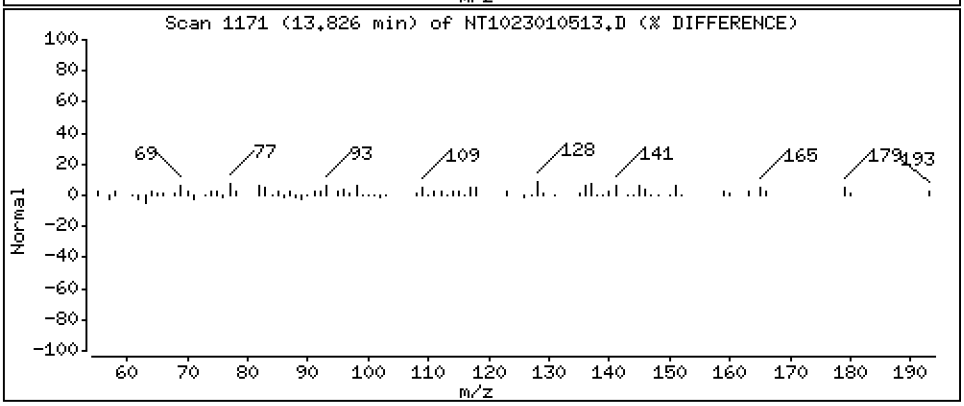












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

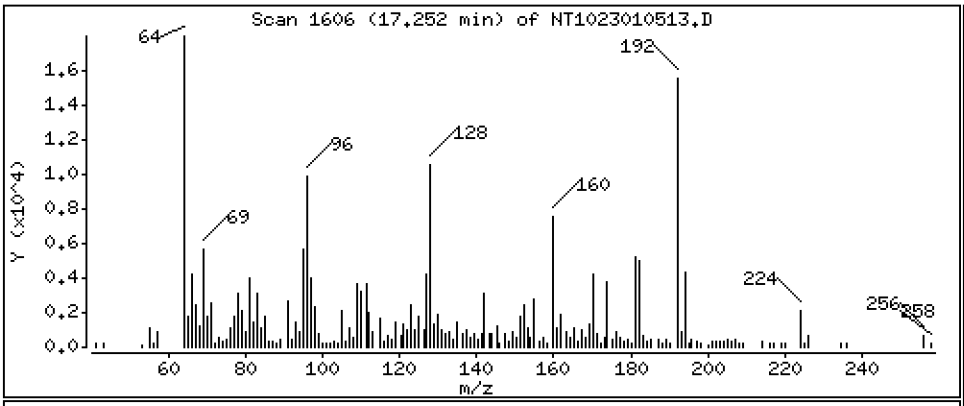
Operator: VTS

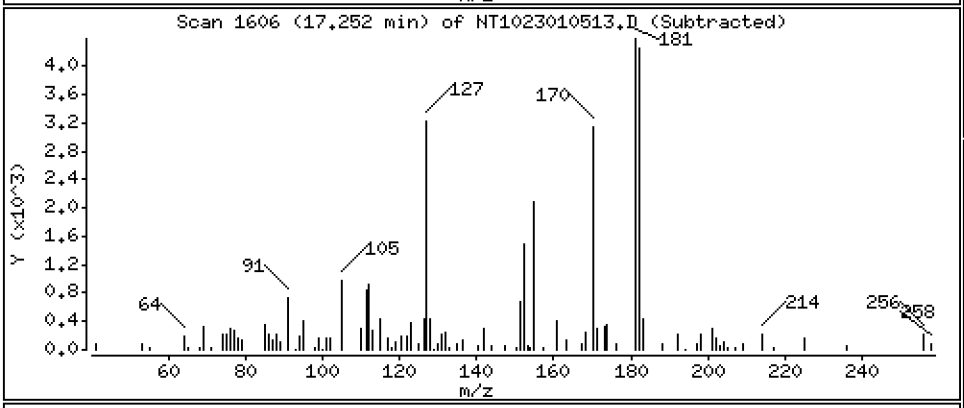
Column phase: ZB-5msi

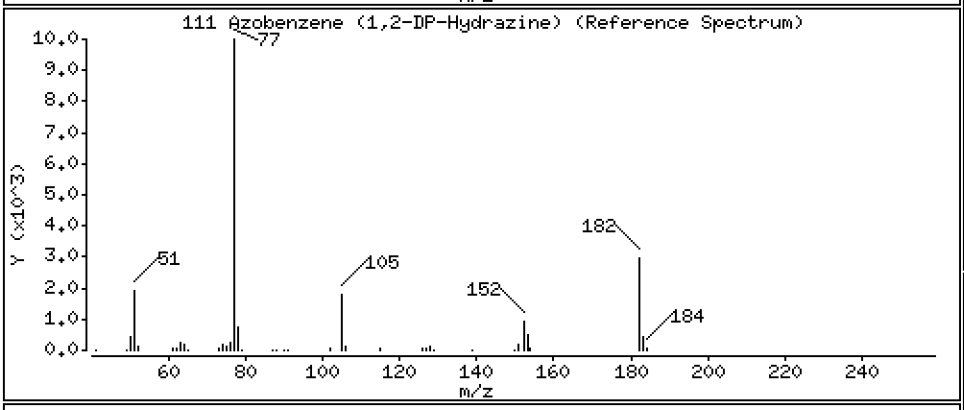
Column diameter: 0.25

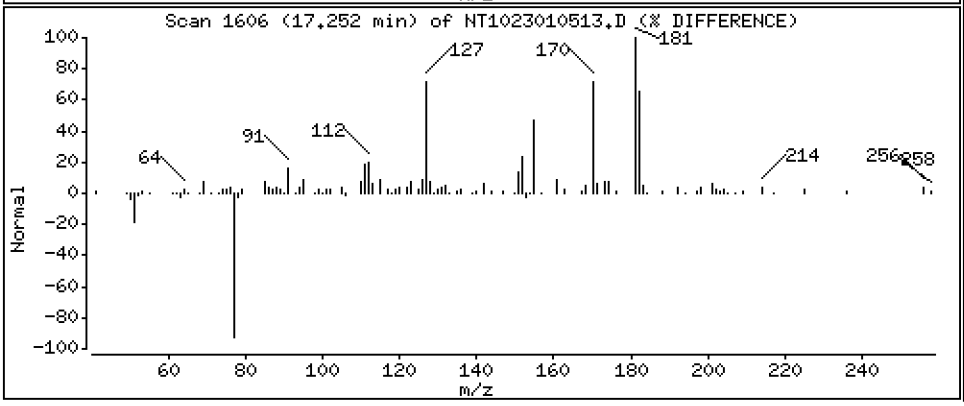
111 Azobenzene (1,2-DP-Hydrazine)

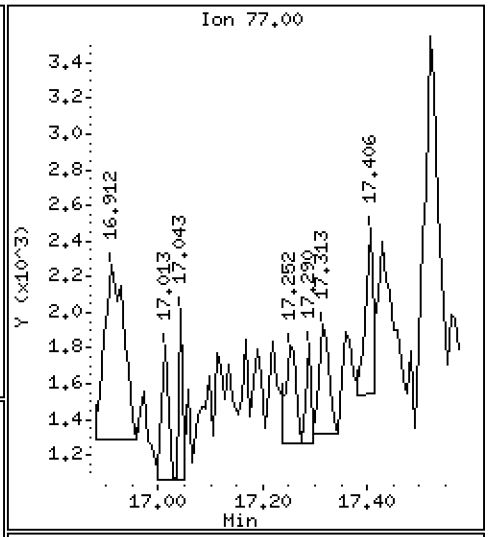
Concentration: 0.01796 ug/mL

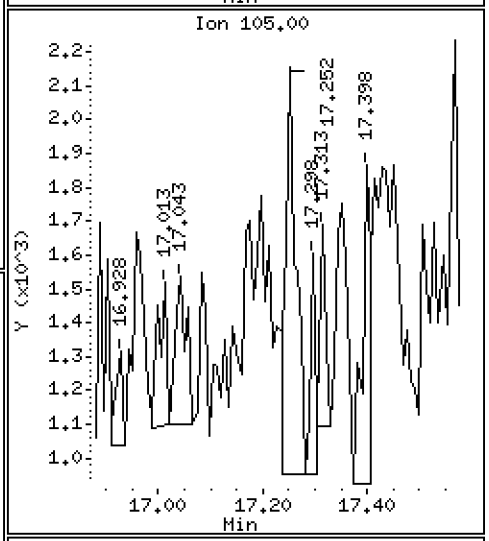


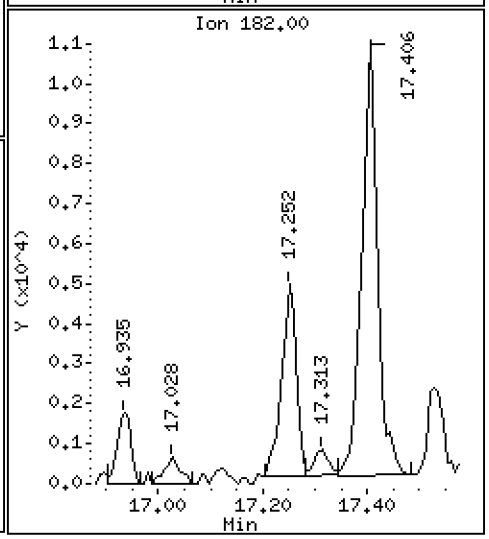












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Date : 05-JAN-2023 21:05

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-11

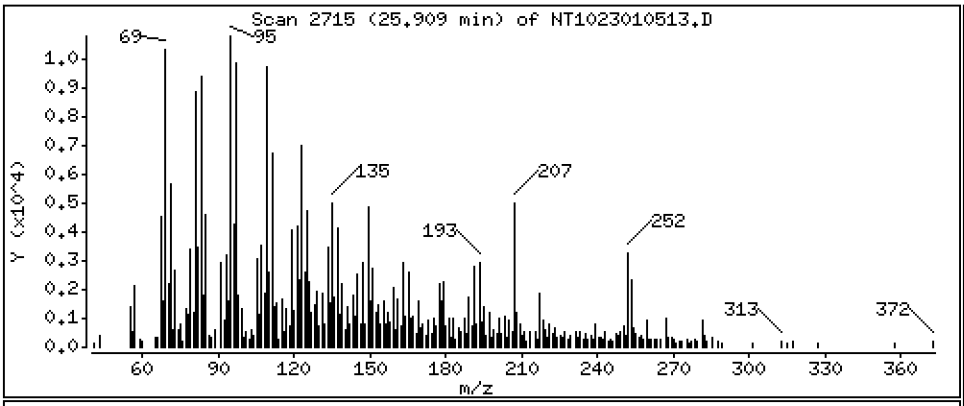
Operator: VTS

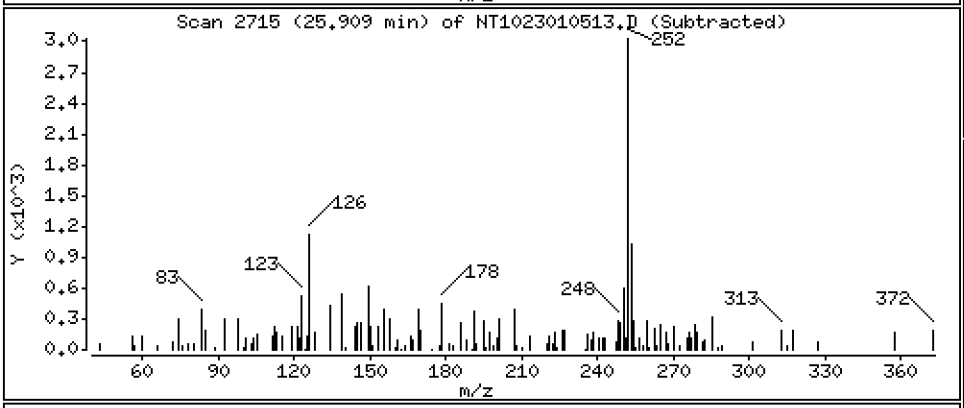
Column phase: ZB-5msi

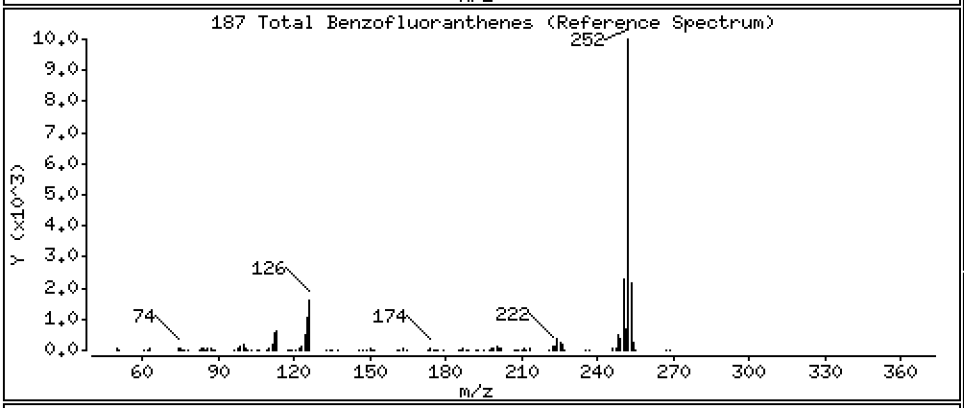
Column diameter: 0.25

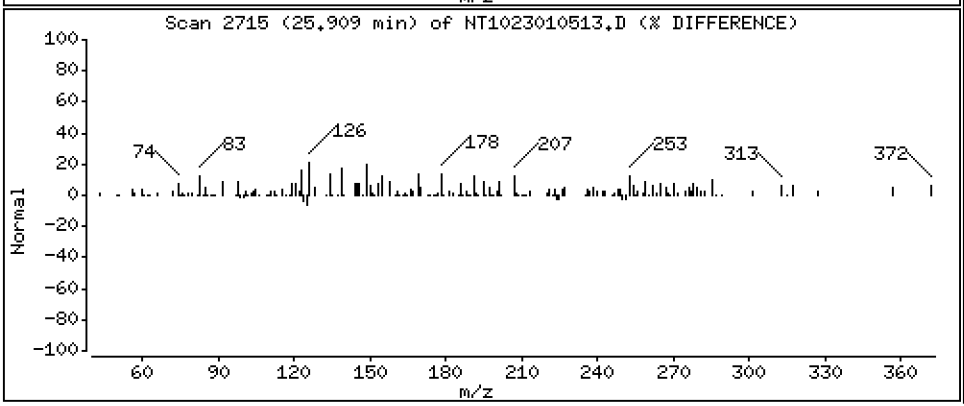
187 Total Benzofluoranthenes

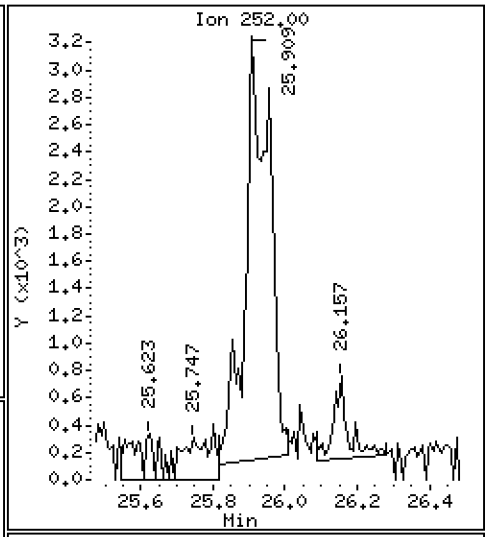
Concentration: 0.5075 ug/mL

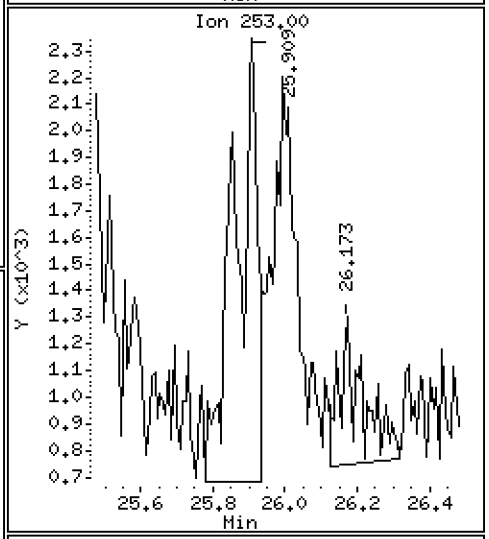


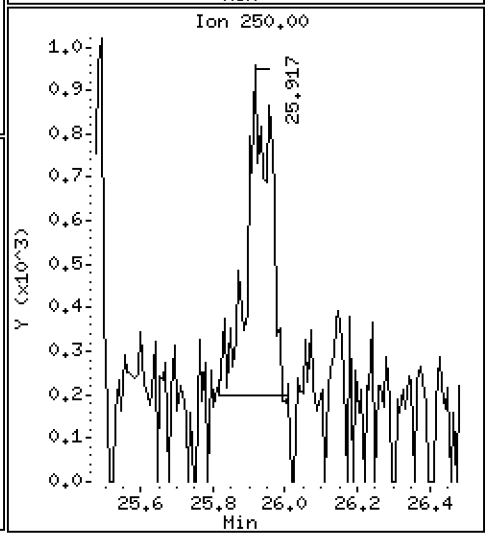












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 05-JAN-2023 21:05
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-11
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	137509	5.49329	5.493
$	2 Phenol-d5	99	9.013	9.012	(0.932)	158487	5.28973	5.290
	3 Phenol	94	9.036	9.036	(0.934)	5079	0.18092	0.1809
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	170578	6.47263	6.473
	4 Bis(2-Chloroethyl)ether	93	9.298	9.205	(0.962)	172	0.00685	0.006848
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	76587	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	64070	3.90288	3.903
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.933	9.941	(1.027)	2345	0.17926	0.1793
	14 2,2'-oxybis(1-Chloropropane)	121	9.918	10.244	(1.026)	719	0.09543	0.09543
	13 2-Methylphenol	108	10.159	10.158	(1.051)	552	0.02924	0.02924
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	10.423	10.422	(1.078)	5029	0.38774	0.3877
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	86615	4.19986	4.200
	19 Nitrobenzene	77	10.950	10.810	(0.900)	235	0.01301	0.01301
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.705	11.442	(0.962)	286	0.01728	0.01728
	22 2,4-Dimethylphenol	107	11.468	11.476	(0.942)	1023	0.04271	0.04271
	23 Bis(2-Chloroethoxy)methane	93	11.663	11.671	(0.958)	190	0.00916	0.009161
	24 Benzoic acid	105	11.663	11.671	(0.958)	637	0.06466	0.06466
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.170	12.185	(1.000)	310094	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	53972	0.79153	0.7915
	29 4-Chloroaniline	127	12.208	12.339	(1.003)	7724	0.29308	0.2931
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	13.283	13.291	(1.092)	110	0.00571	0.005714
	32 2-Methylnaphthalene	142	13.601	13.624	(1.118)	13197	0.24470	0.2447
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.375	14.398	(0.910)	195227	4.44940	4.449
	37	2-Chloronaphthalene	162	14.715	14.622	(0.932)	302	0.00770	0.007704
	38	2-Nitroaniline	65	14.831	14.862	(0.939)	465	0.08880	0.08880
	39	Dimethylphthalate	163	15.241	15.280	(0.965)	1865	0.05222	0.05222
	40	Acenaphthylene	152	15.481	15.497	(0.980)	18354	0.32590	0.3259
	41	2,6-Dinitrotoluene	165	15.404	15.427	(0.975)	756	0.09319	0.09319
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	118436	4.00000	
	43	3-Nitroaniline	138	15.714	15.721	(0.995)	956	0.17090	0.1709
	44	Acenaphthene	153	15.860	15.876	(1.004)	6847	0.21908	0.2191
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.185	16.208	(1.025)	10752	0.22641	0.2264
	47	4-Nitrophenol	109	15.976	16.038	(1.012)	430	0.10202	0.1020
	48	2,4-Dinitrotoluene	165	16.201	16.247	(1.026)	536	0.04924	0.04924
	50	Diethylphthalate	149	16.719	16.742	(1.059)	38630	1.02551	1.026
	49	Fluorene	166	16.896	16.919	(1.070)	21803	0.31273	0.3127
	51	4-Chlorophenyl-phenylether	204	16.904	16.896	(1.070)	198	0.00884	0.008842
	52	4-Nitroaniline	138	16.989	17.004	(1.076)	1782	0.11549	0.1155
	53	4,6-Dinitro-2-methylphenol	198	17.159	17.097	(0.910)	254	0.03175	0.03175
	54	N-Nitrosodiphenylamine	169	17.189	17.143	(0.912)	5950	0.16903	0.1690
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	17528	7.20211	7.202
	56	4-Bromophenyl-phenylether	248	17.899	17.914	(0.950)	114	0.01230	0.01230
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.850	18.865	(1.000)	190176	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.002)	39797	0.86254	0.8625
	61	Anthracene	178	18.989	19.005	(1.007)	11155	0.24767	0.2477
	62	Carbazole	167	19.306	19.322	(1.024)	1933	0.03983	0.03983
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	4994	0.07844	0.07844
	64	Fluoranthene	202	21.279	21.271	(0.892)	36885	0.92963	0.9296
	65	Pyrene	202	21.682	21.689	(0.909)	36555	0.91752	0.9175
$	66	Terphenyl-d14	244	21.937	21.952	(0.920)	96655	3.97636	3.976
	67	Butylbenzylphthalate	149	22.843	22.851	(0.958)	1692	0.07960	0.07960
	68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	8882	0.32761	0.3276
*	69	Chrysene-d12	240	23.850	23.873	(1.000)	100314	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.826	23.780	(0.999)	530	0.05316	0.05316
	71	Chrysene	228	23.896	23.919	(1.002)	8549	0.34429	0.3443
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	11087	0.27542	0.2754
*	134	Di-n-octylphthalate-d4	153	24.903	24.926	(1.000)	262128	4.00000	
	73	Di-n-octylphthalate	149	25.050	24.941	(1.006)	1272	0.02098	0.02098
	74	Benzo(b)fluoranthene	252	25.909	25.932	(0.966)	7074	0.23341	0.2334
	75	Benzo(k)fluoranthene	252	25.909	25.978	(0.966)	7074	0.23957	0.2396
	76	Benzo(a)pyrene	252	26.884	26.691	(1.003)	326020	11.2807	11.28
*	77	Perylene-d12	264	26.815	26.822	(1.000)	84136	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.931	29.946	(1.116)	3115	0.13712	0.1371
	79	Dibenzo(a,h)anthracene	278	29.970	29.970	(1.118)	253	0.01417	0.01417
	80	Benzo(g,h,i)perylene	276	30.871	30.886	(1.151)	4662	0.24874	0.2487
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.298	9.128	(0.962)	172	0.00655	0.006545
	93	Benzidine	184	21.480	21.480	(0.901)	250	0.01357	0.01357
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.825	13.848	(1.136)	9086	0.17242	0.1724
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.251	17.228	(1.092)	839	0.01796	0.01796

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.978	(0.966)	14564	0.50751	0.5075
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010513.D
Lab Smp Id: 22L0246-11
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	76587	-6.29
27 Naphthalene-d8	307034	153517	614068	310094	1.00
42 Acenaphthene-d10	140557	70279	281114	118436	-15.74
59 Phenanthrene-d10	243620	121810	487240	190176	-21.94
69 Chrysene-d12	144852	72426	289704	100314	-30.75
134 Di-n-octylphthala	387178	193589	774356	262128	-32.30
77 Perylene-d12	106683	53342	213366	84136	-21.13

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.82	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010513.D

Lab ID: 22L0246-11
nt10.i, ABN.m, 05-JAN-2023 21:05

RT	CO-ELUTION COMPOUNDS
23.827	3,3'-Dichlorobenzidine and Benzo(a)anthracene
25.909	Benzo(k)fluoranthene and Benzo(b)fluoranthene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.962	0.950	0.0111	Bis(2-Chloroethyl)ether
1.026	1.058	-0.0320	2,2'-oxybis(1-Chloropropane)
0.900	0.887	0.0126	Nitrobenzene
0.962	0.939	0.0228	2-Nitrophenol
1.003	1.013	-0.0095	4-Chloroaniline
0.932	0.925	0.0072	2-Chloronaphthalene
1.006	1.001	0.0053	Di-n-octylphthalate
1.003	0.995	0.0075	Benzo(a)pyrene
0.962	0.943	0.0191	Aniline

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810E

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-12 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010514.D
% Solids:	54.55	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 21:44
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	18.33 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

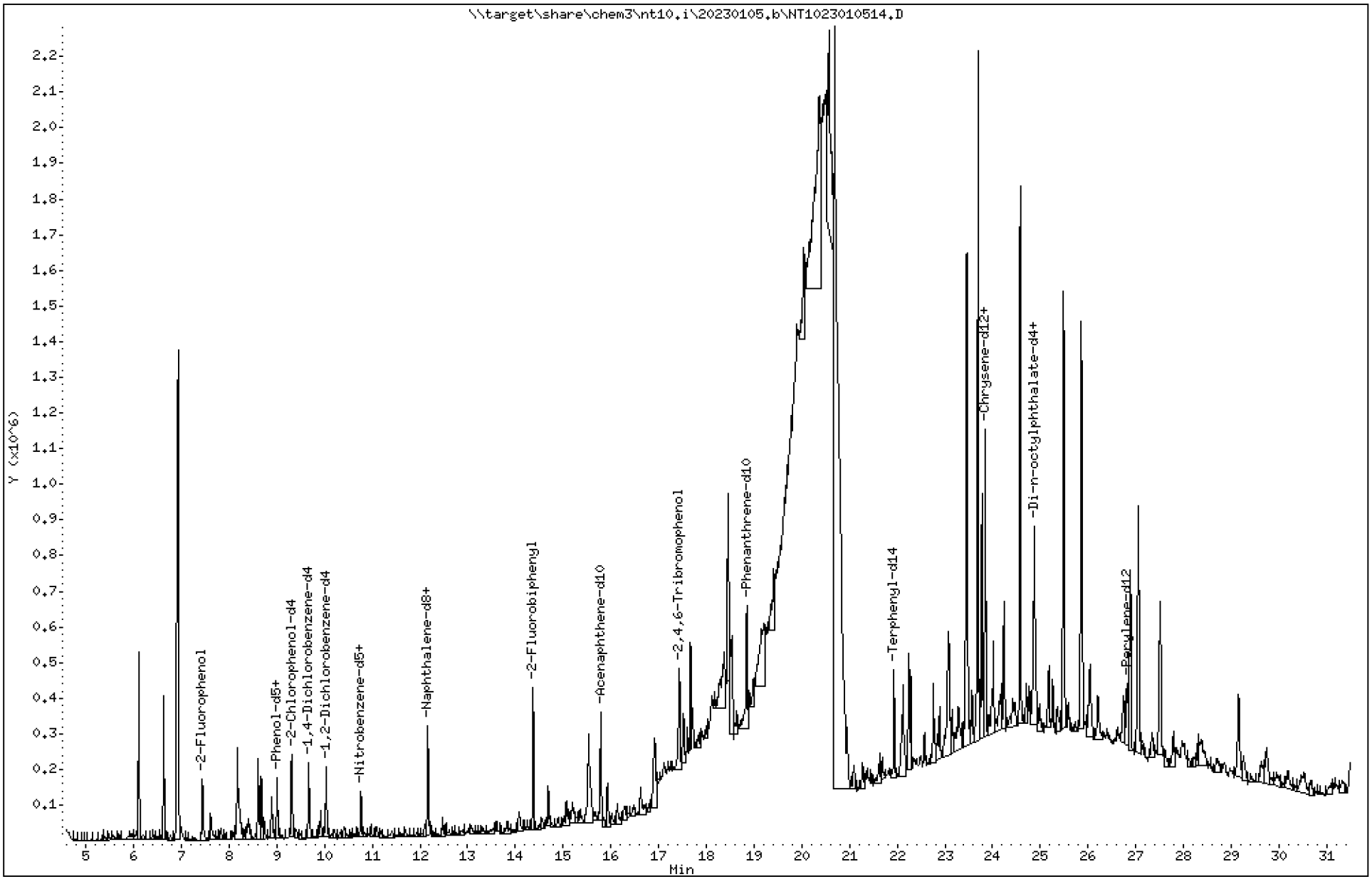
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.05	527	105	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010514.D
Date : 05-JAN-2023 21:44
Client ID:
Sample Info: 22L0246-12

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

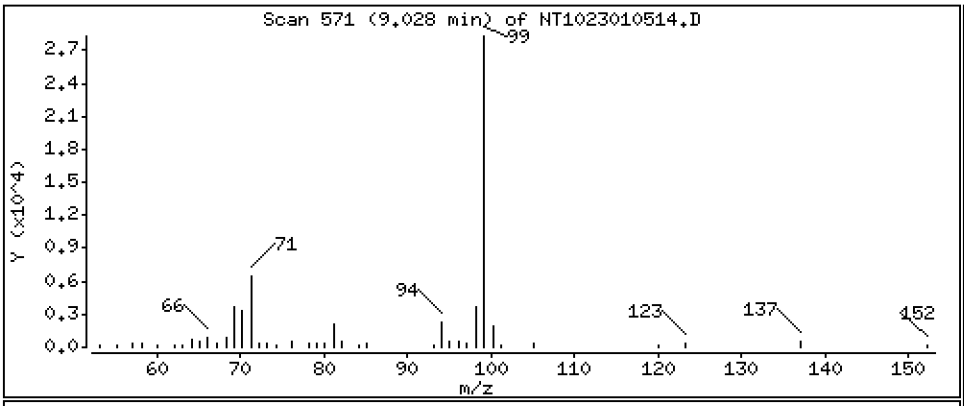
Operator: VTS

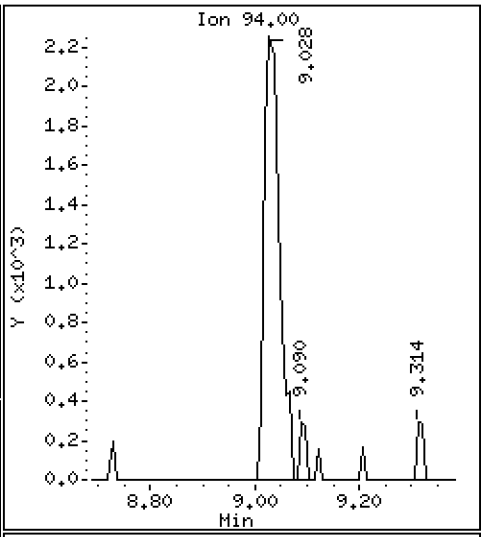
Column phase: ZB-5msi

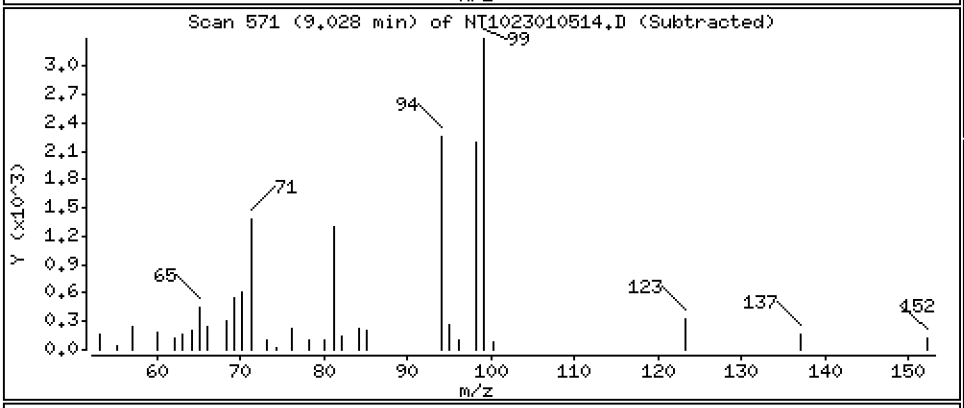
Column diameter: 0.25

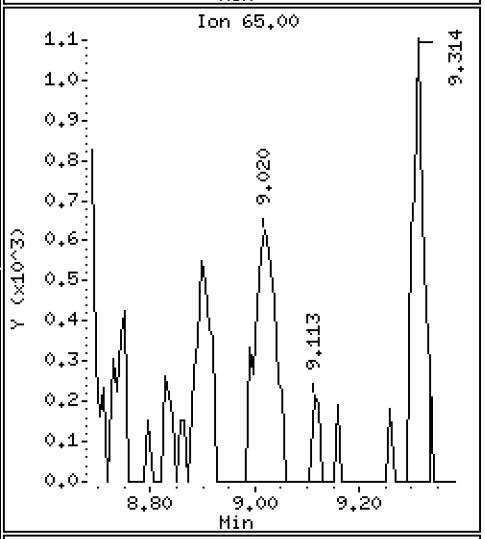
3 Phenol

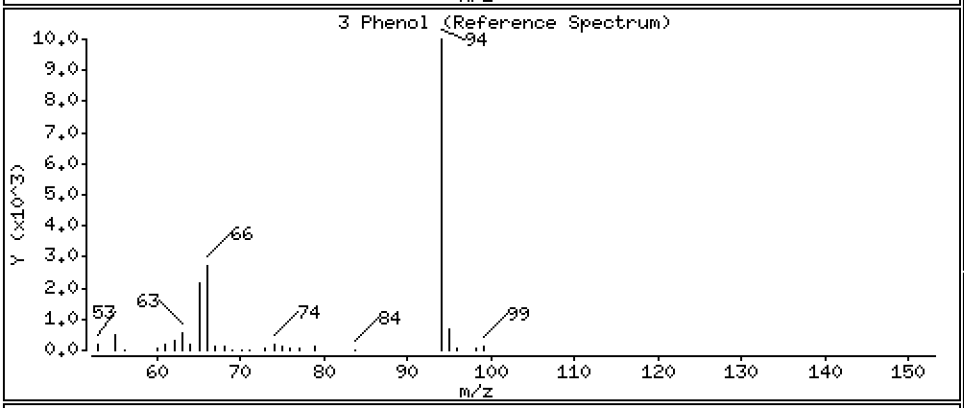
Concentration: 0.1503 ug/mL

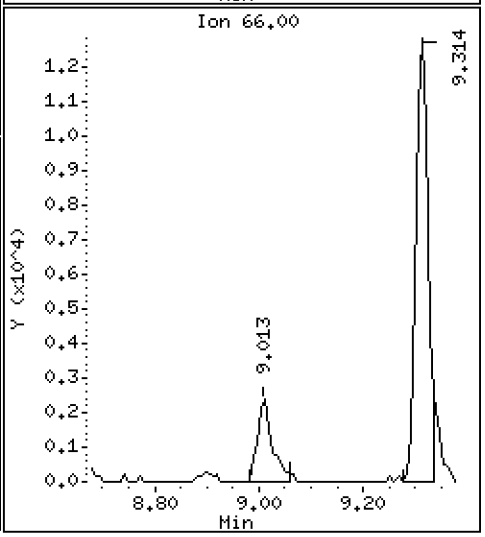


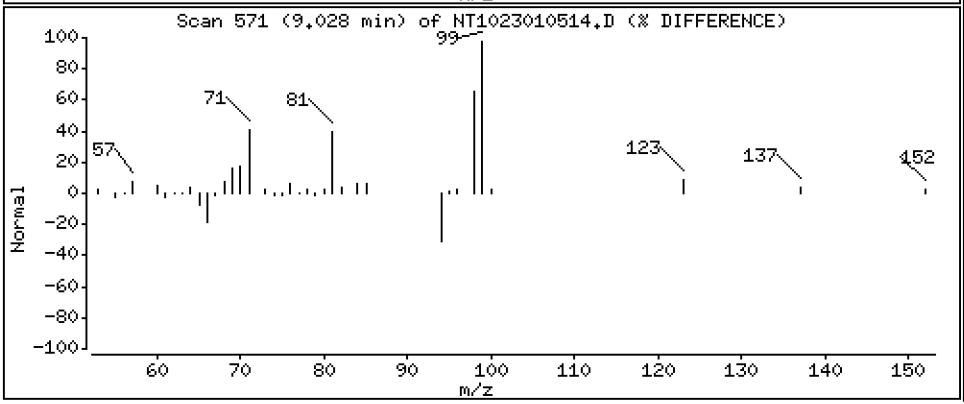












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

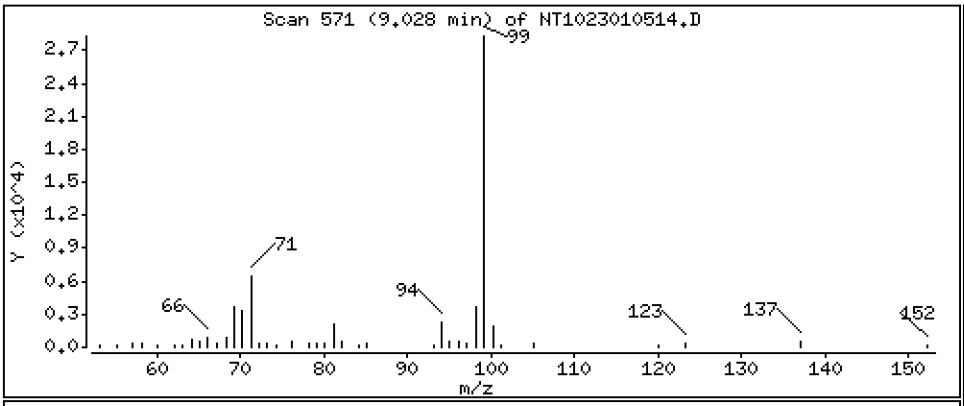
Operator: VTS

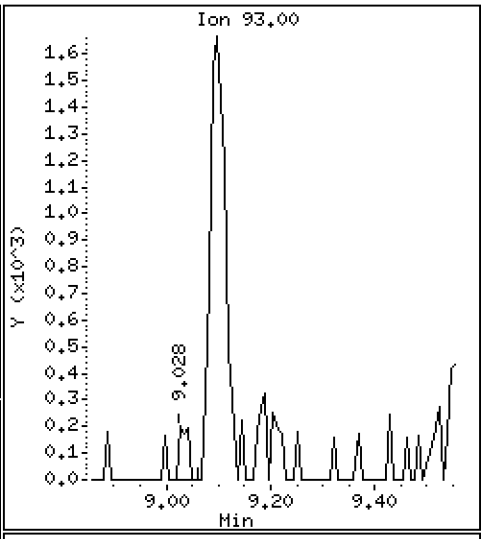
Column phase: ZB-5msi

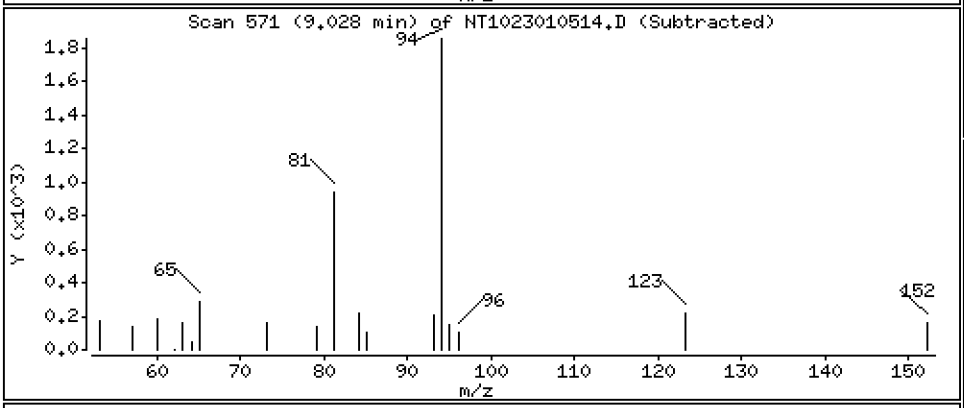
Column diameter: 0.25

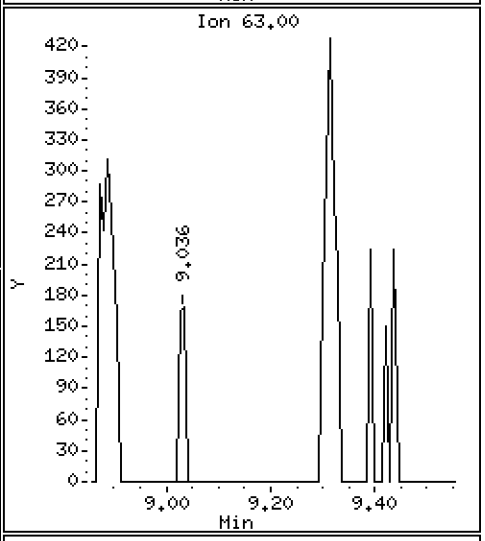
4 Bis(2-Chloroethyl)ether

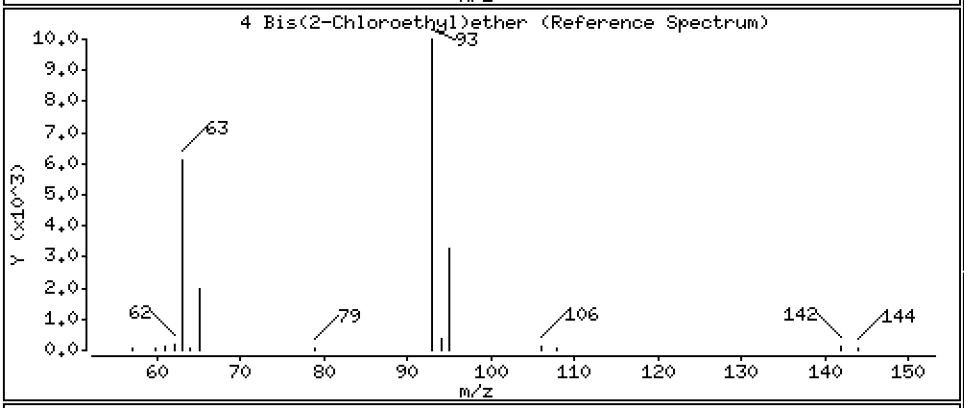
Concentration: 0.009968 ug/mL

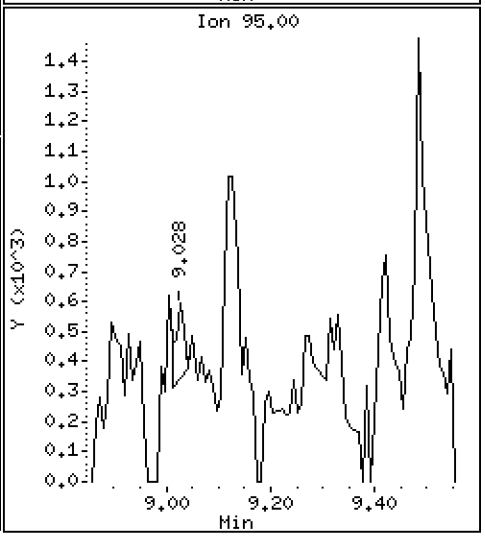


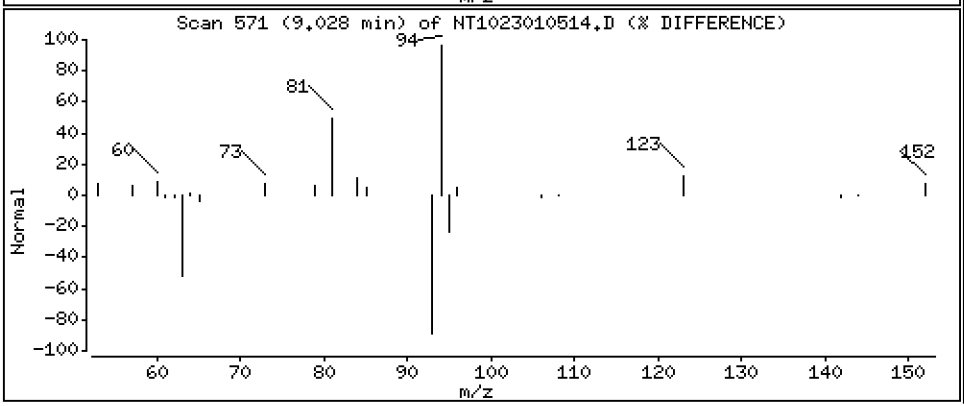












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

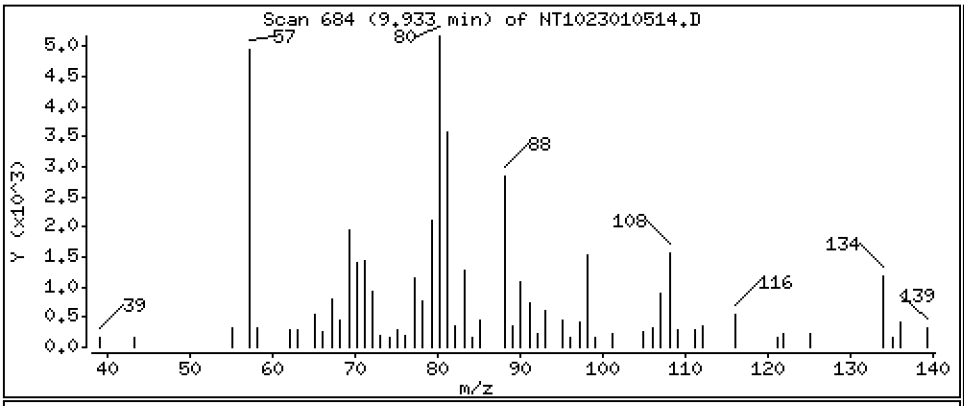
Operator: VTS

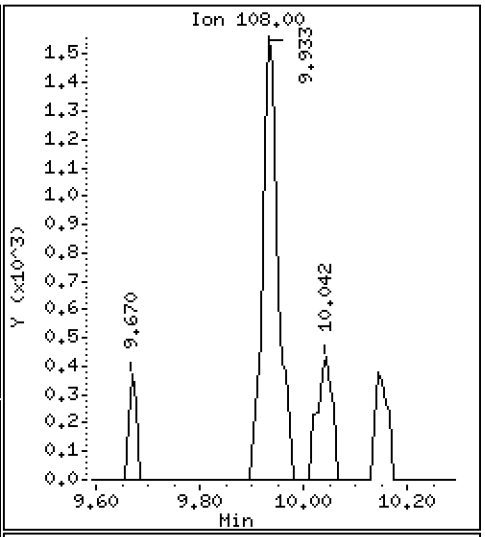
Column phase: ZB-5msi

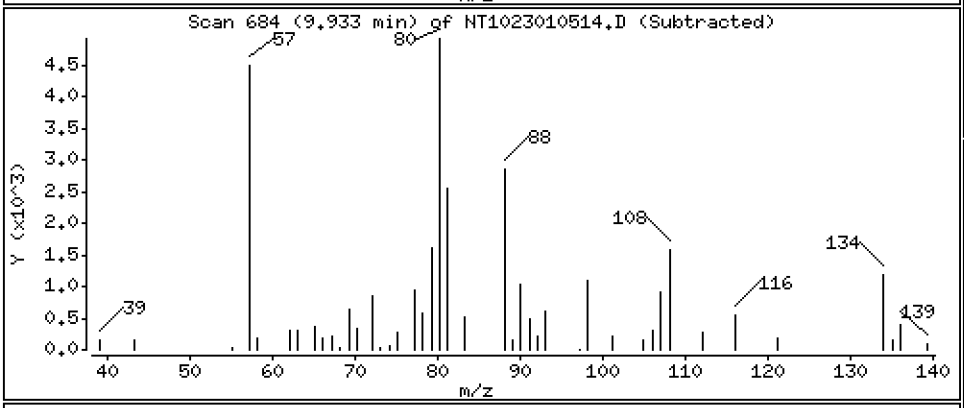
Column diameter: 0.25

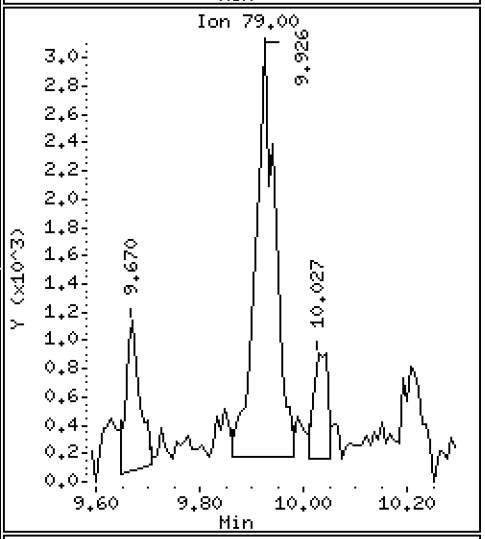
11 Benzyl alcohol

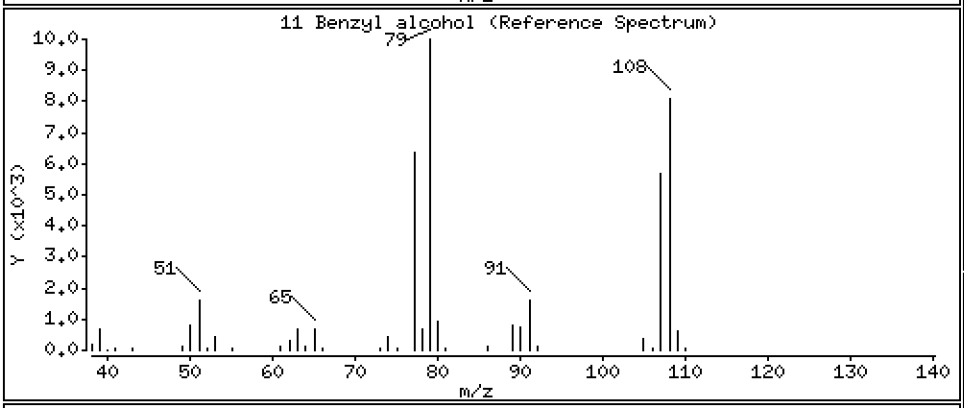
Concentration: 0.2626 ug/mL

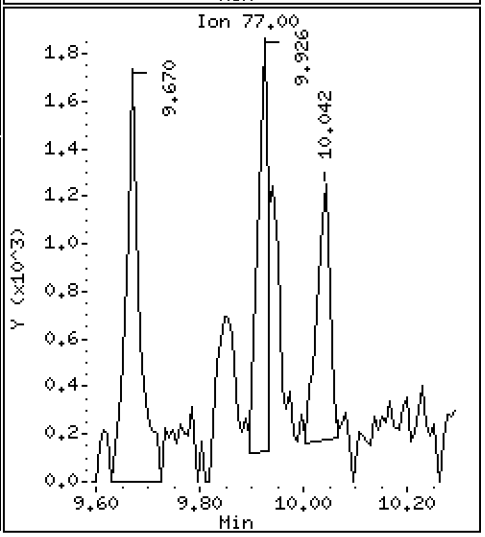


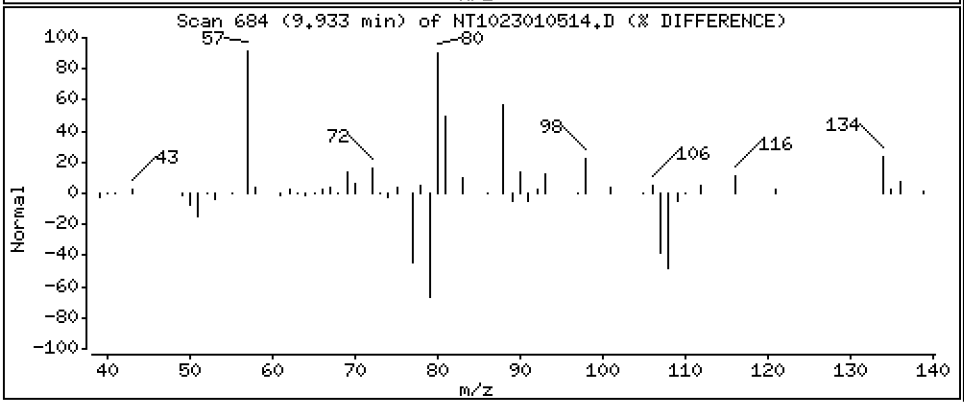












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

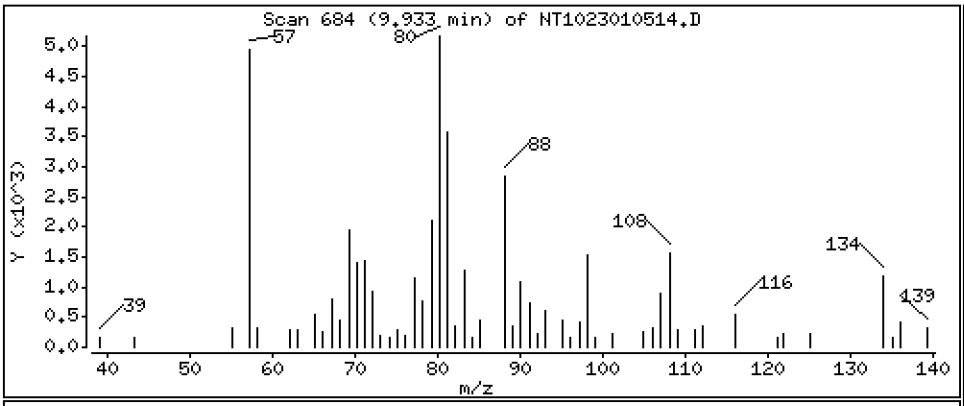
Operator: VTS

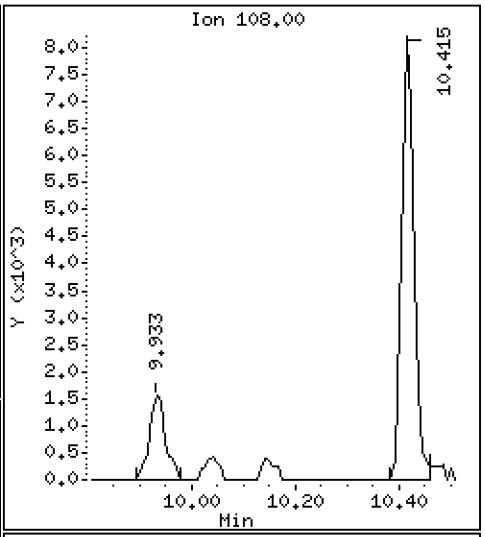
Column phase: ZB-5msi

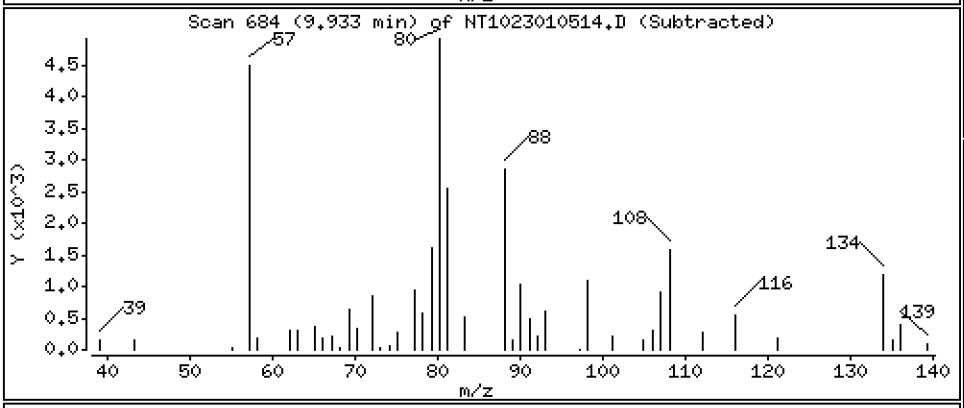
Column diameter: 0.25

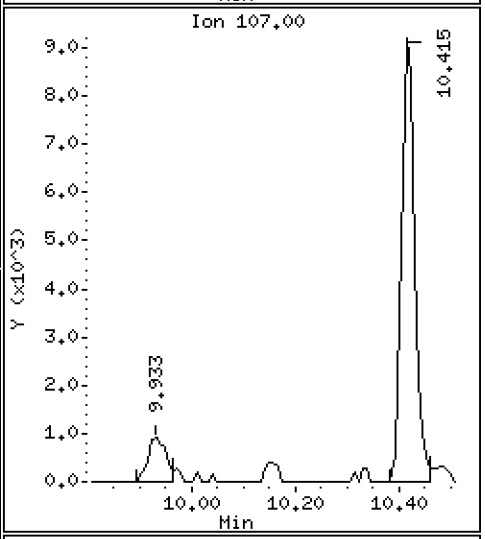
13 2-Methylphenol

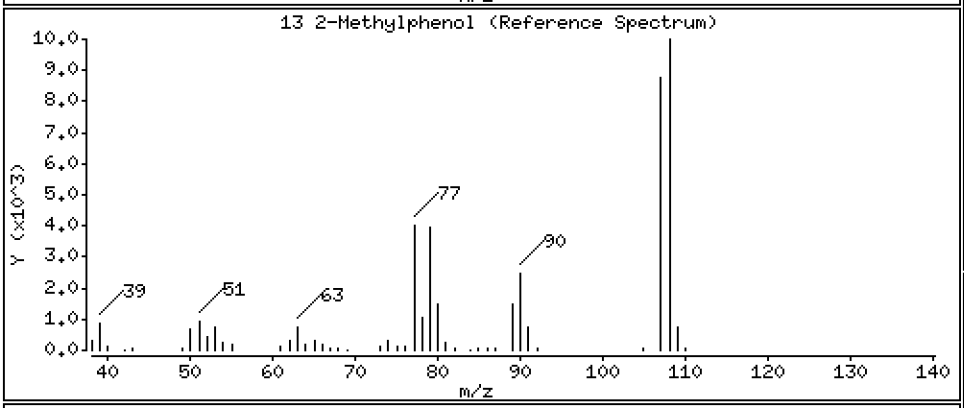
Concentration: 0.1819 ug/mL

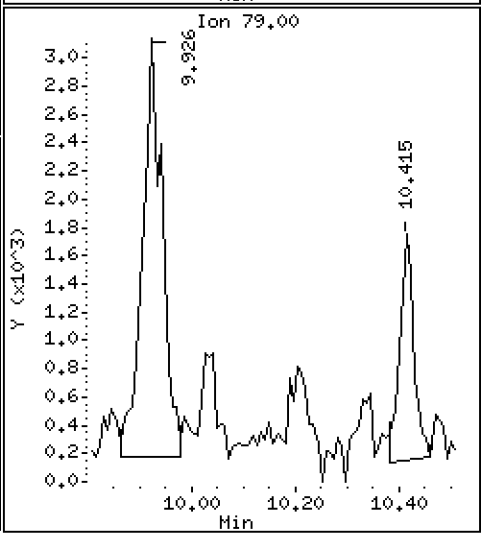


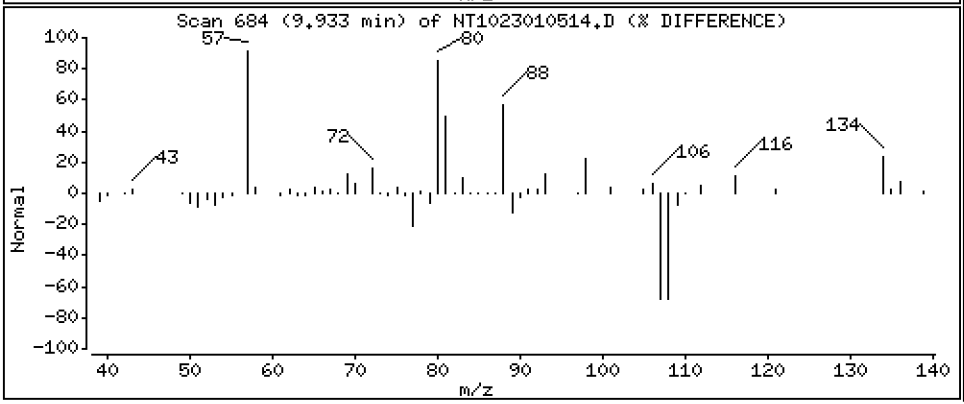












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

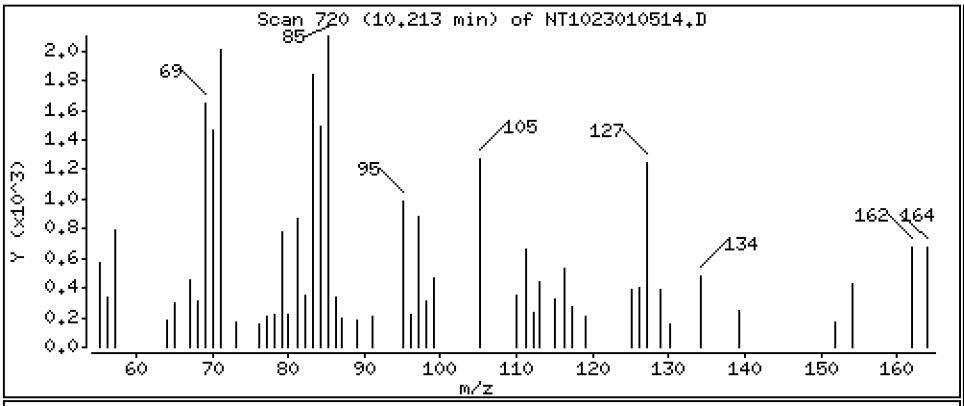
Operator: VTS

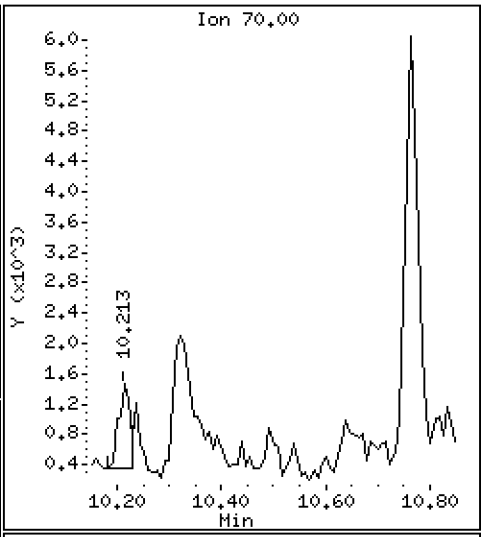
Column phase: ZB-5msi

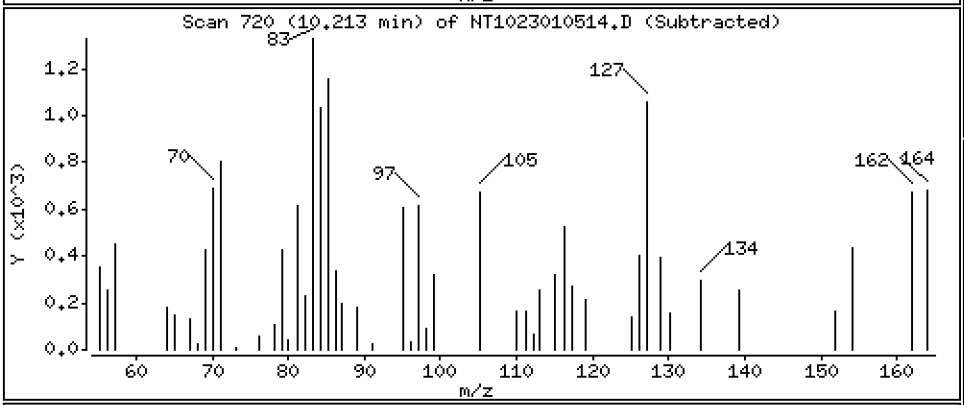
Column diameter: 0.25

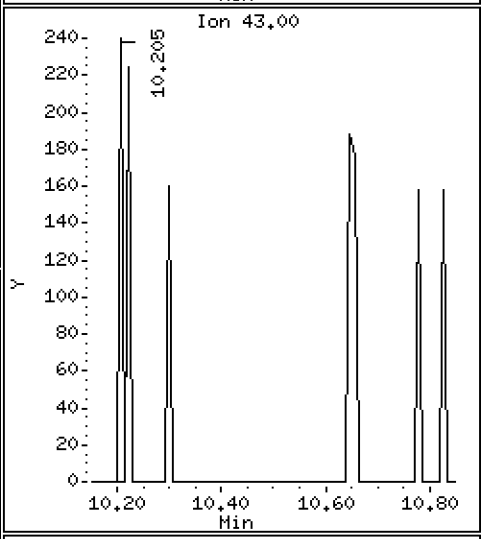
16 N-Nitroso-di-n-propylamine

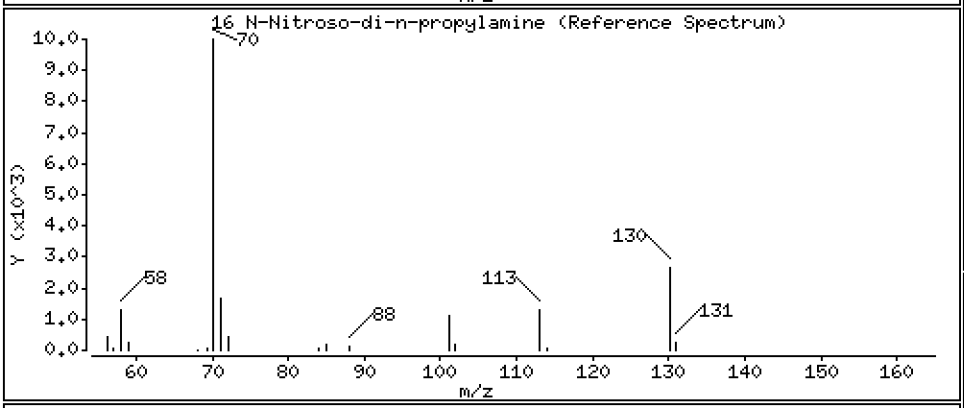
Concentration: 0.1678 ug/mL

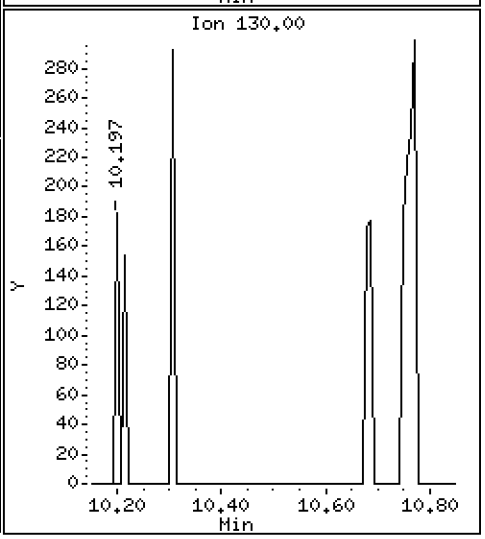


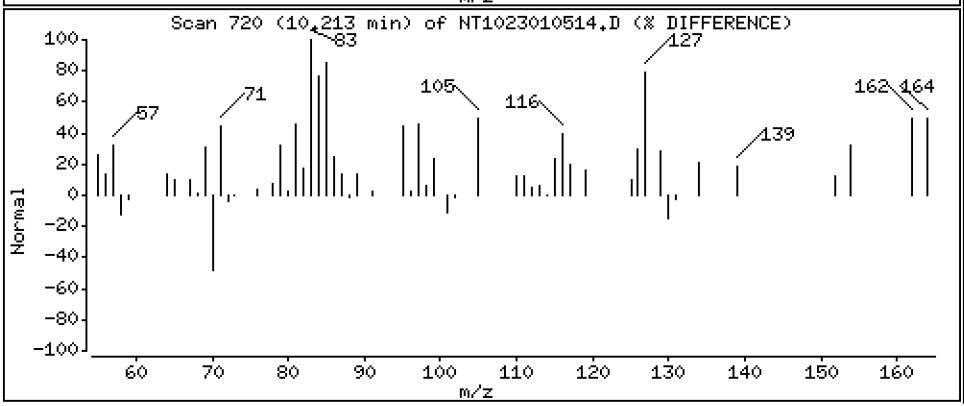












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

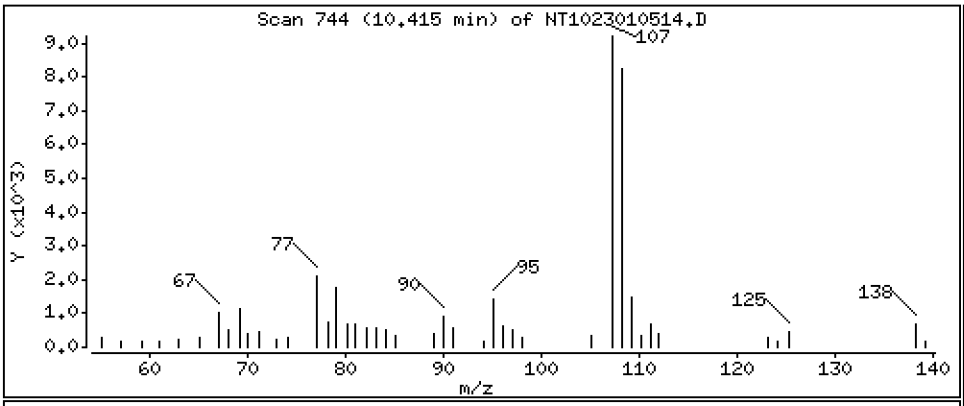
Operator: VTS

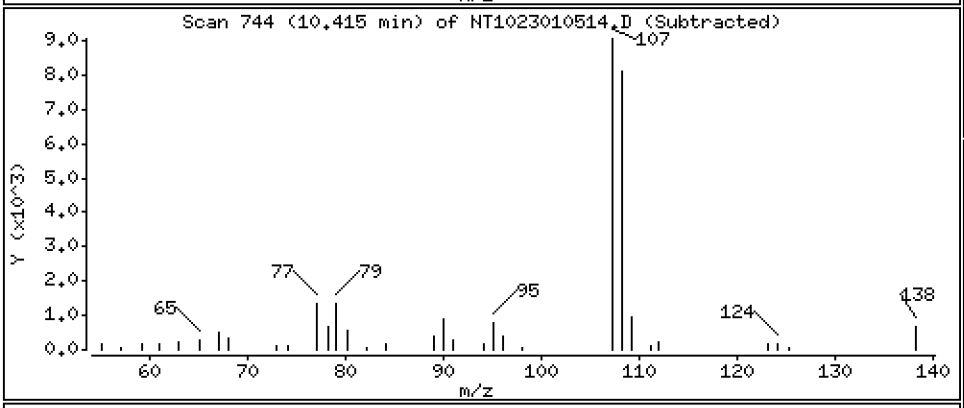
Column phase: ZB-5msi

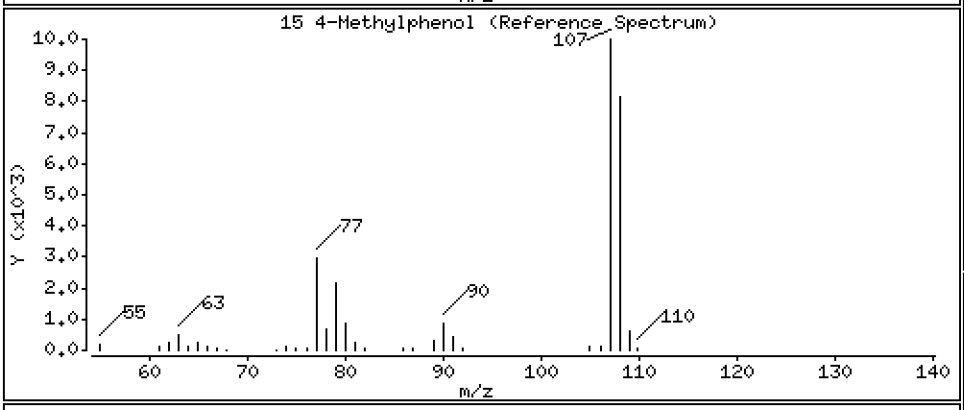
Column diameter: 0.25

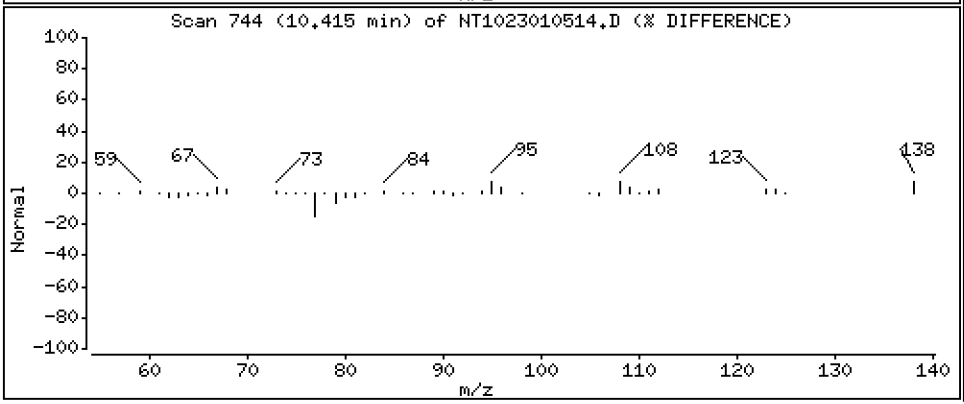
15 4-Methylphenol

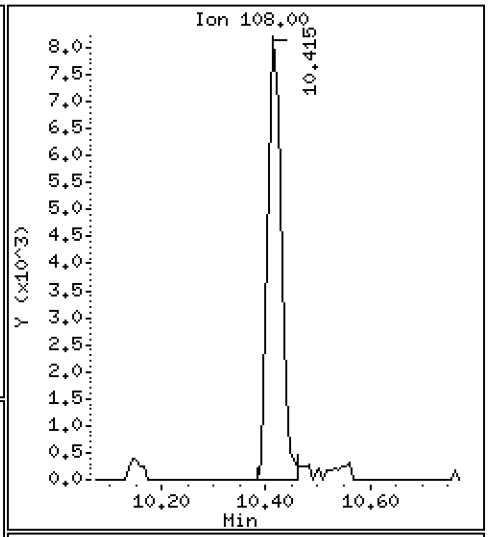
Concentration: 0.9400 ug/mL

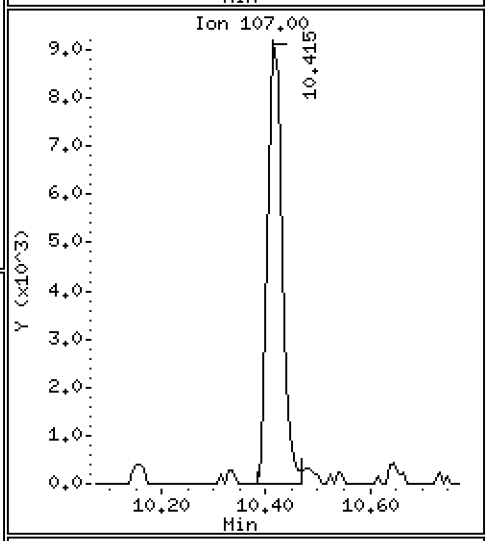


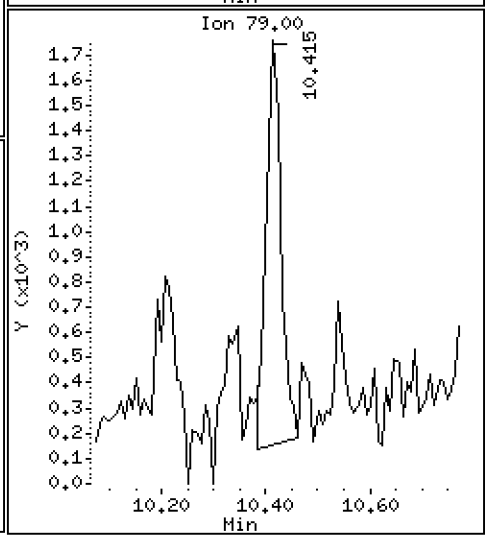












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

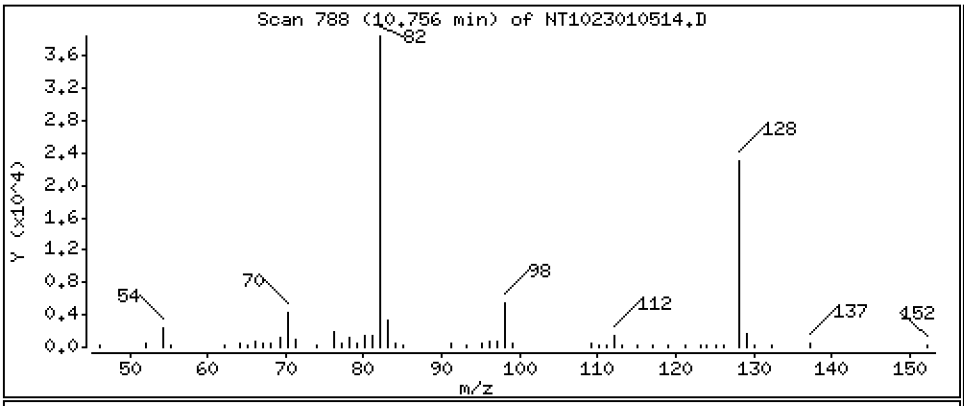
Operator: VTS

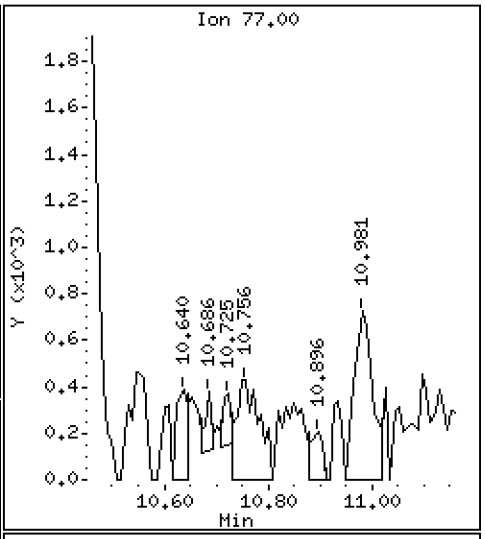
Column phase: ZB-5msi

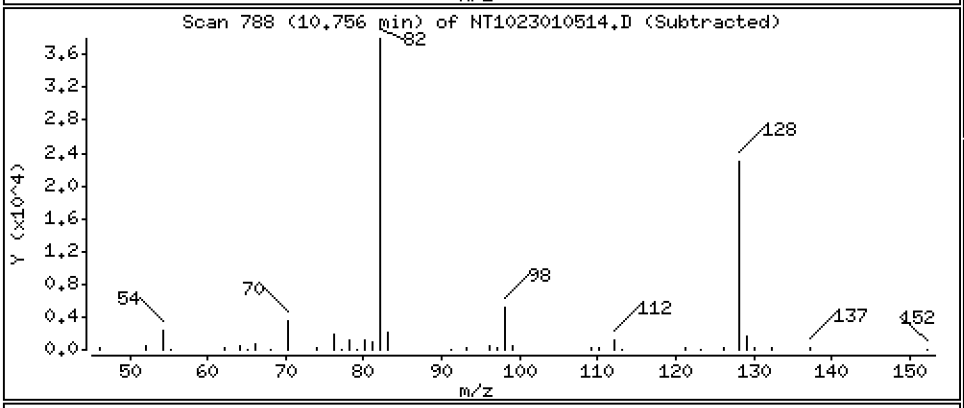
Column diameter: 0.25

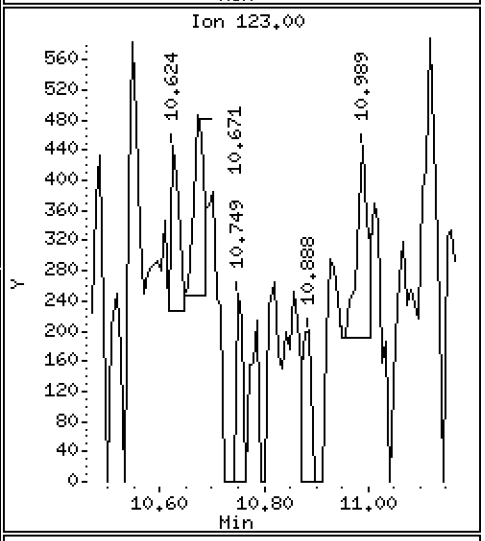
19 Nitrobenzene

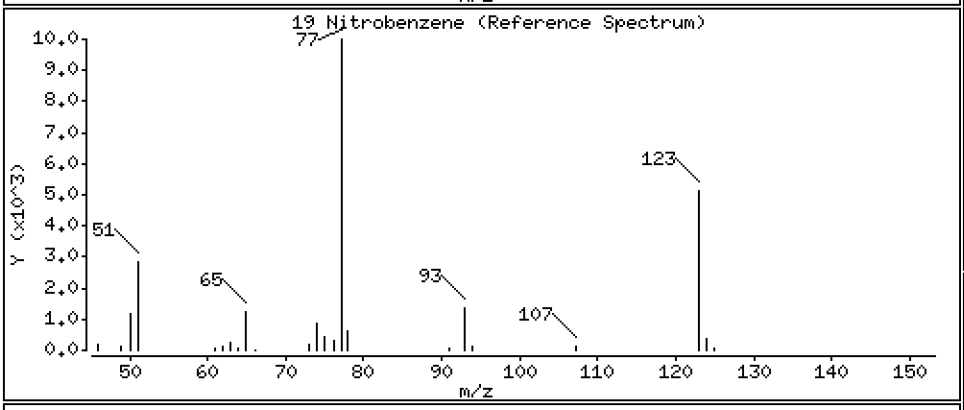
Concentration: 0.07690 ug/mL

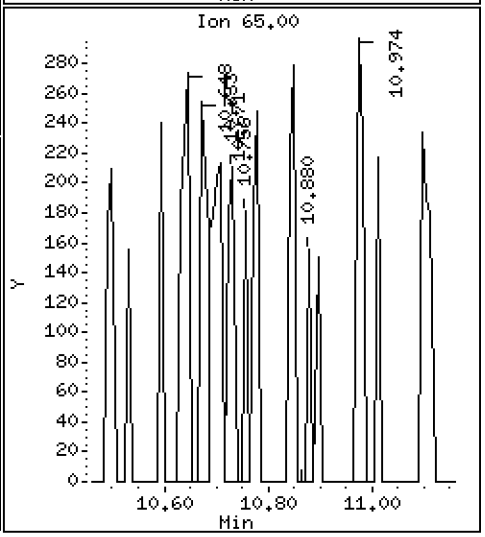


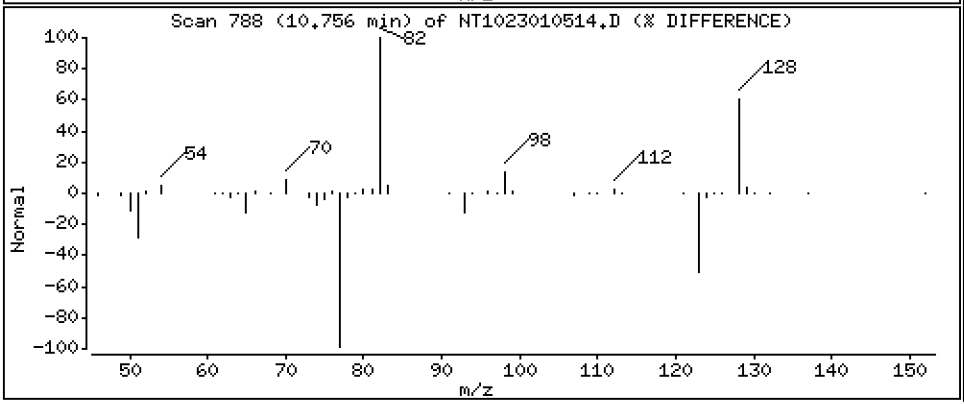












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

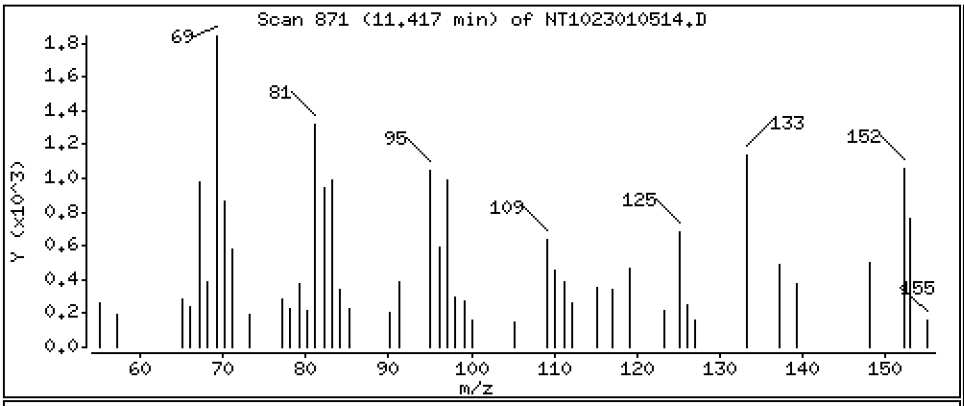
Operator: VTS

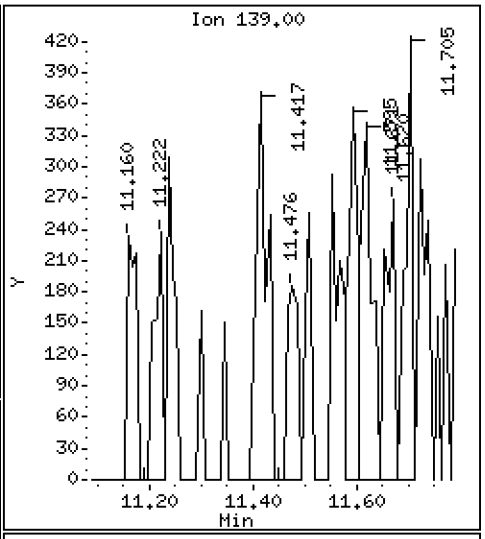
Column phase: ZB-5msi

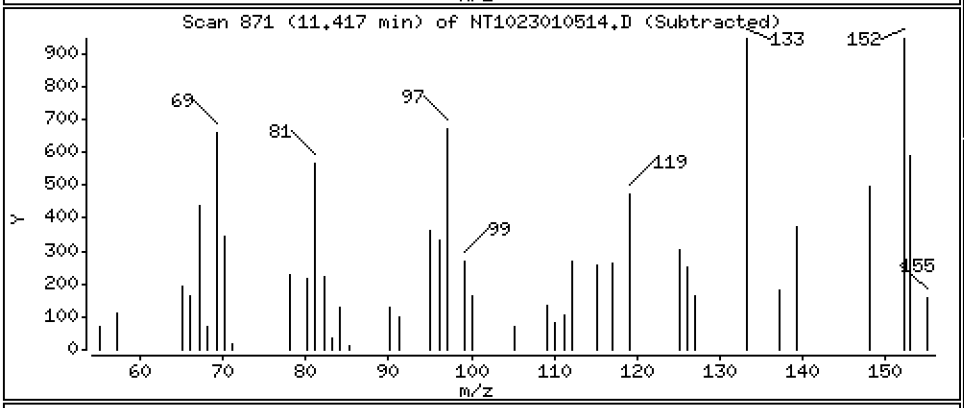
Column diameter: 0.25

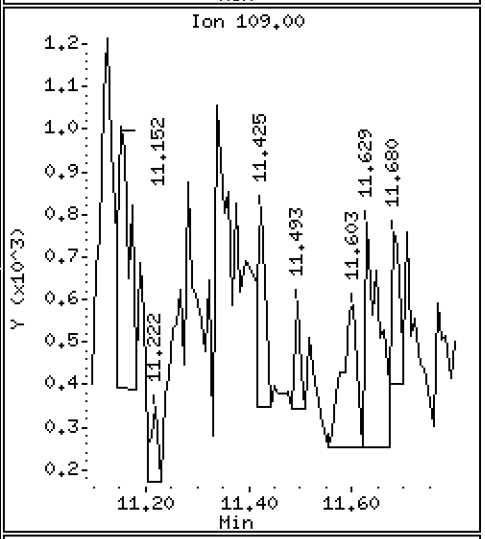
21 2-Nitrophenol

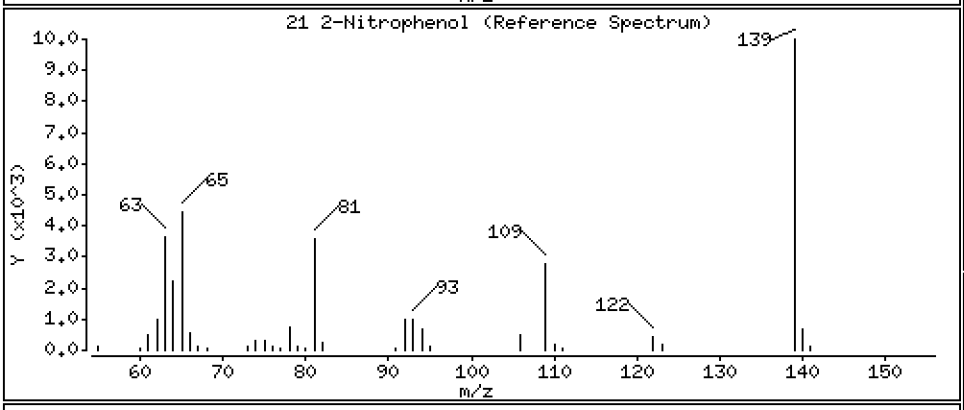
Concentration: 0.03617 ug/mL

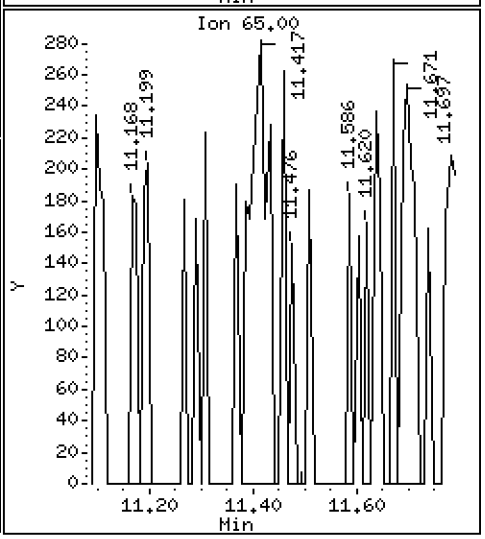


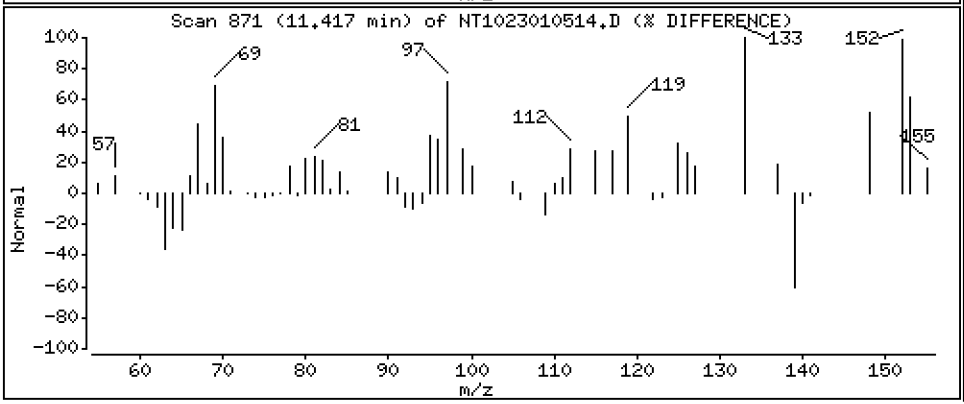












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

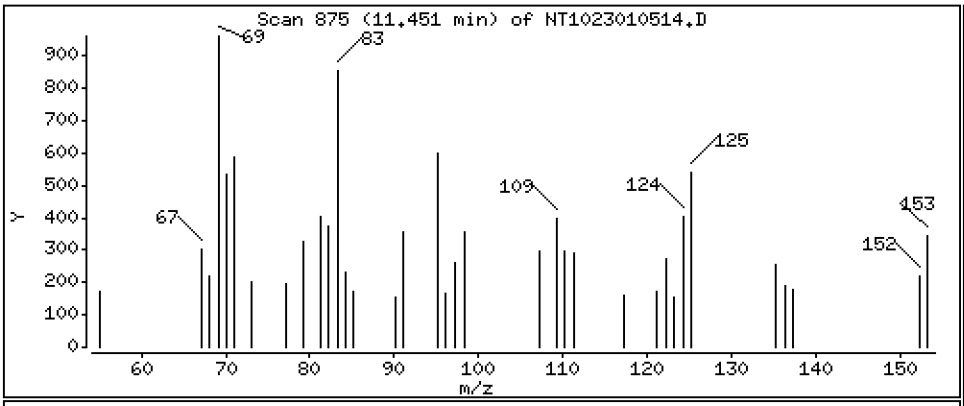
Operator: VTS

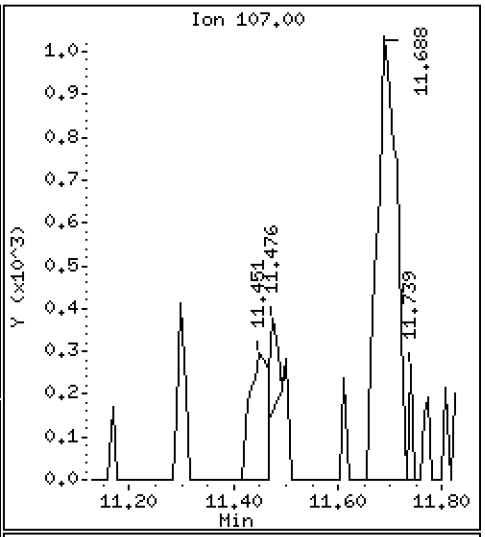
Column phase: ZB-5msi

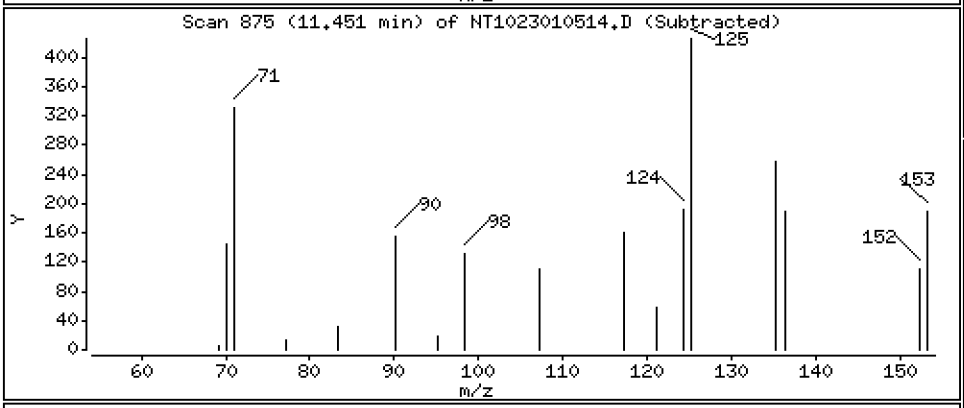
Column diameter: 0.25

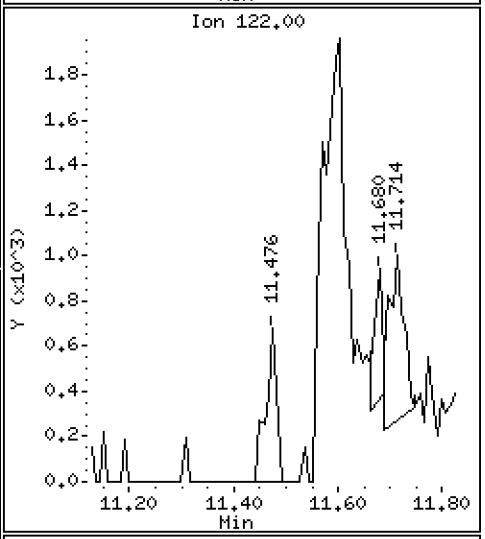
22 2,4-Dimethylphenol

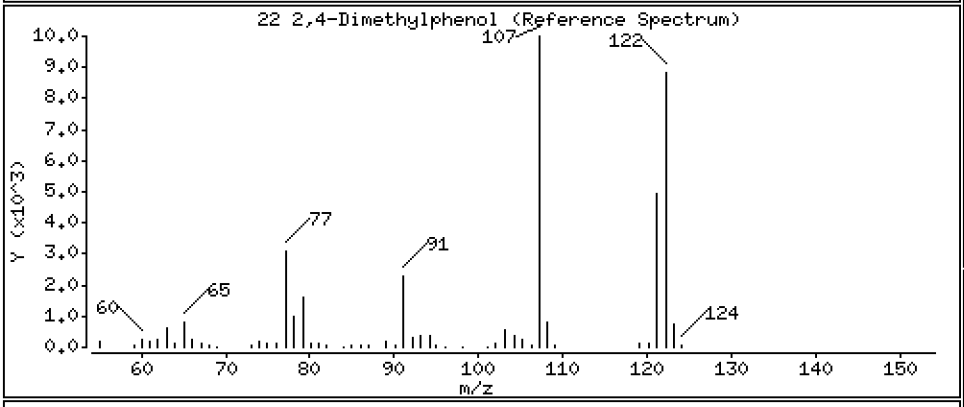
Concentration: 0.03144 ug/mL

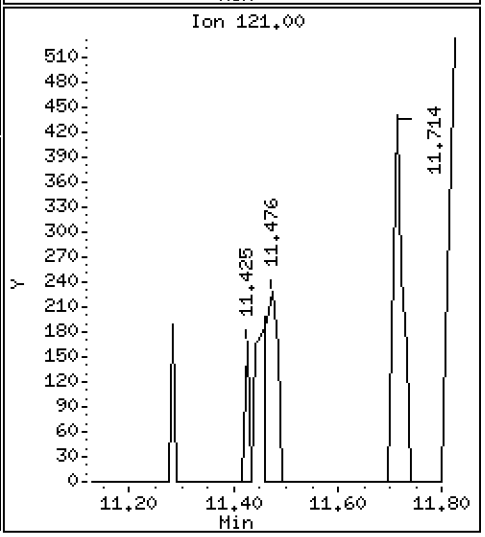


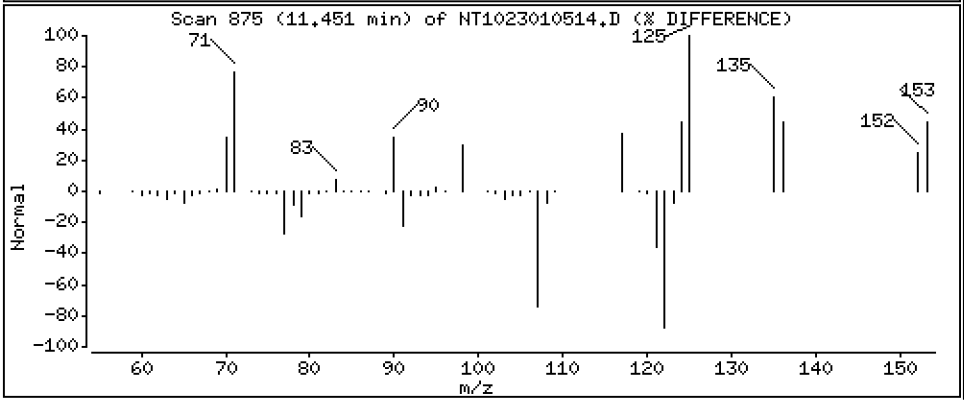












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

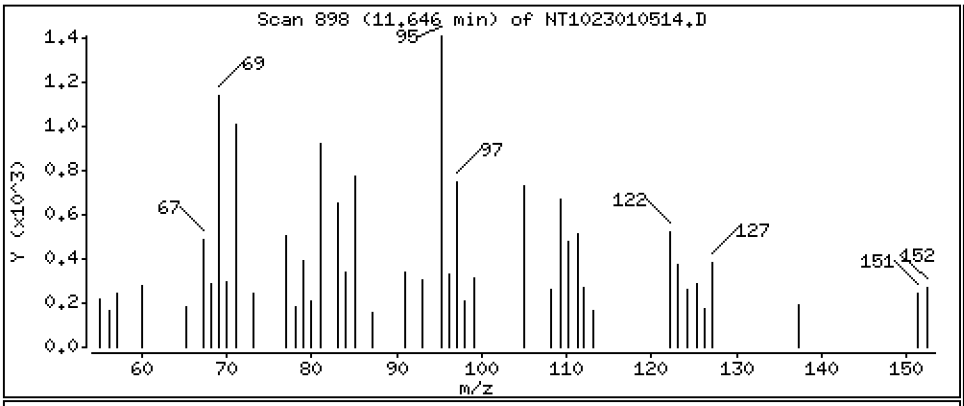
Operator: VTS

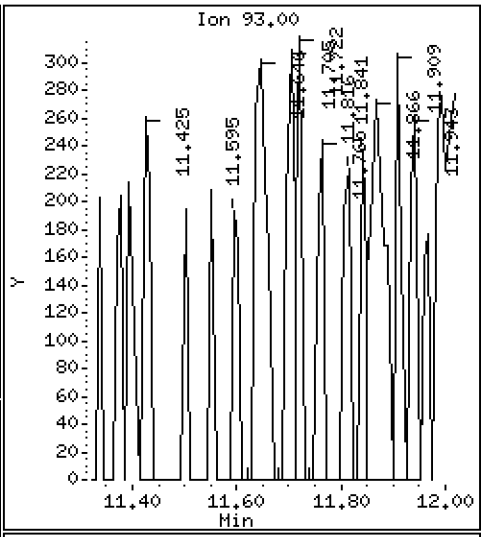
Column phase: ZB-5msi

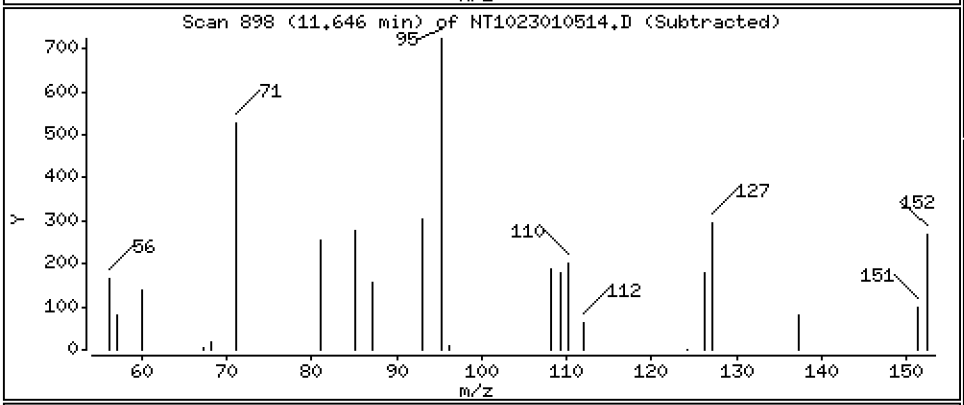
Column diameter: 0.25

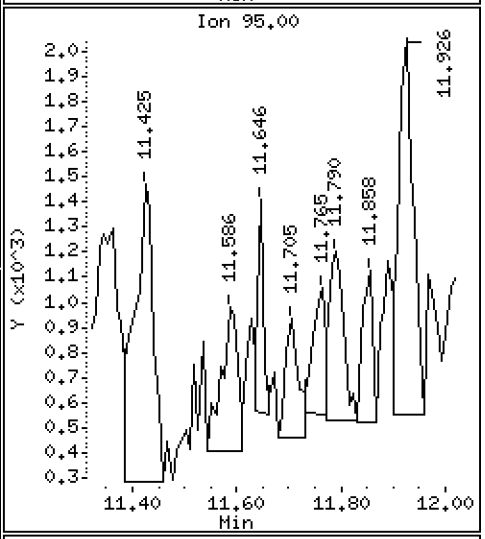
23 Bis(2-Chloroethoxy)methane

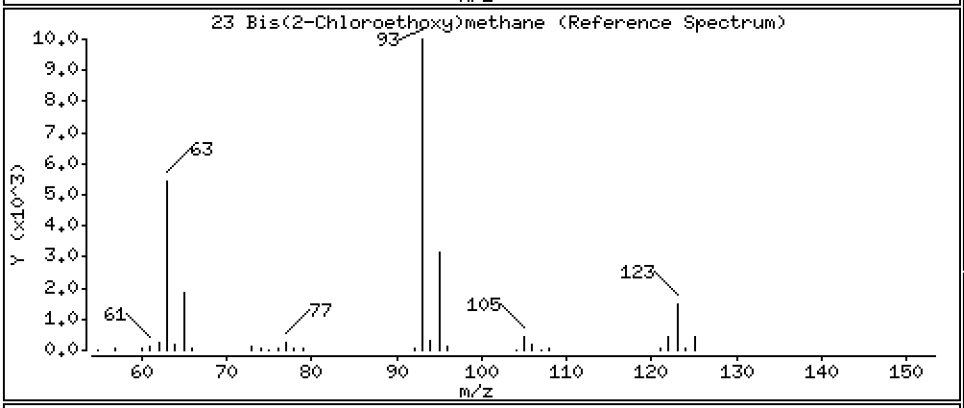
Concentration: 0.02364 ug/mL

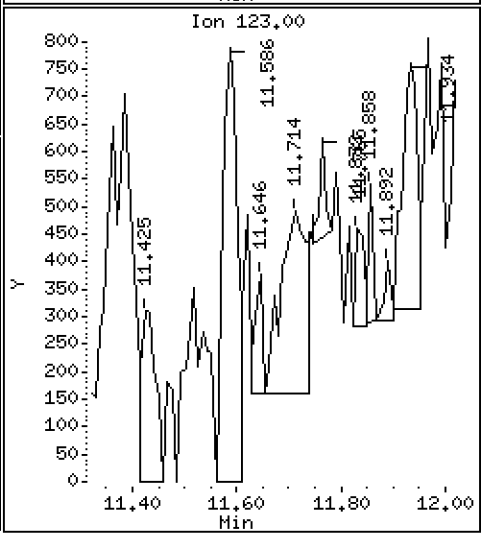


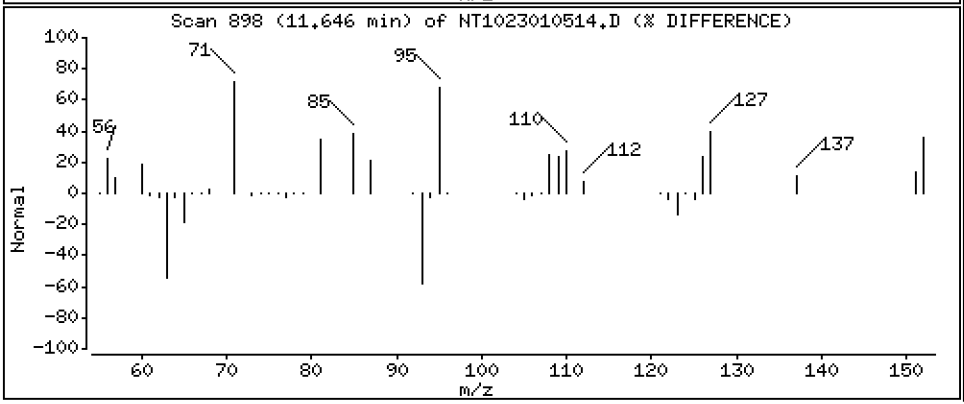












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

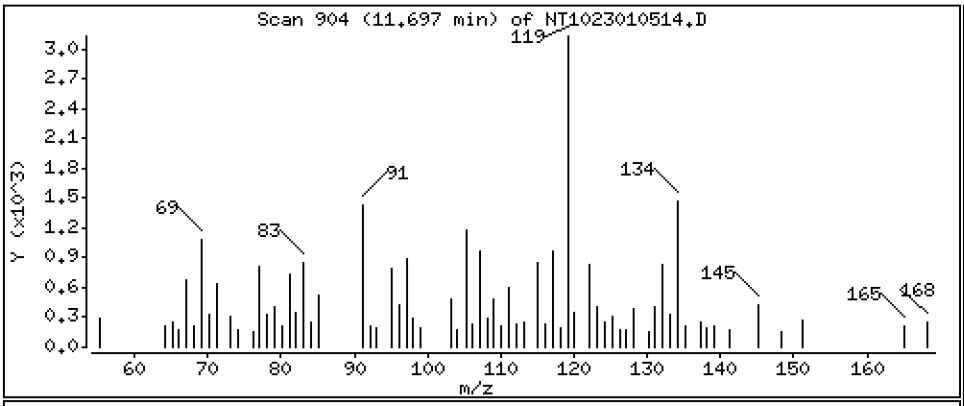
Operator: VTS

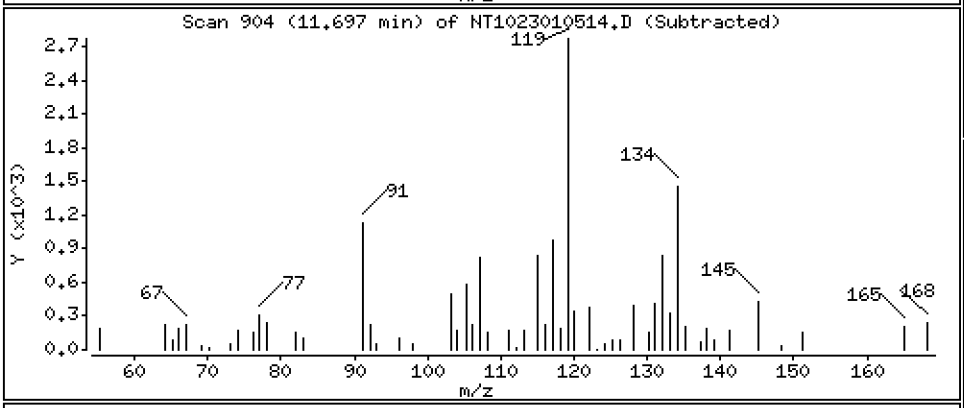
Column phase: ZB-5msi

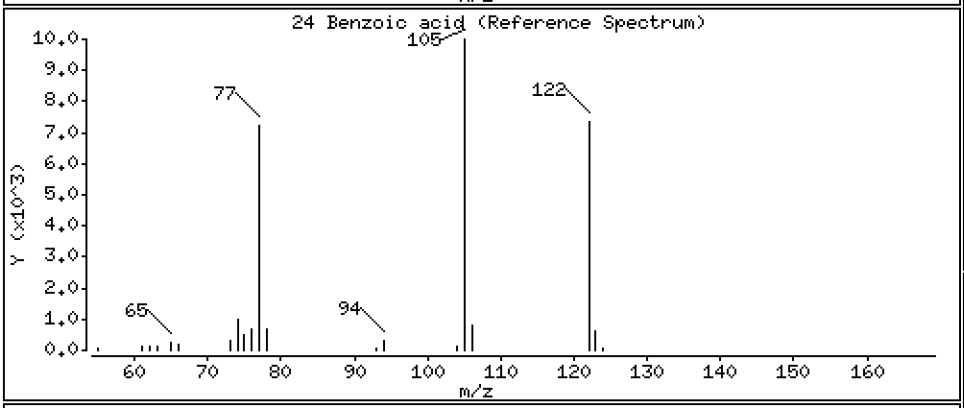
Column diameter: 0.25

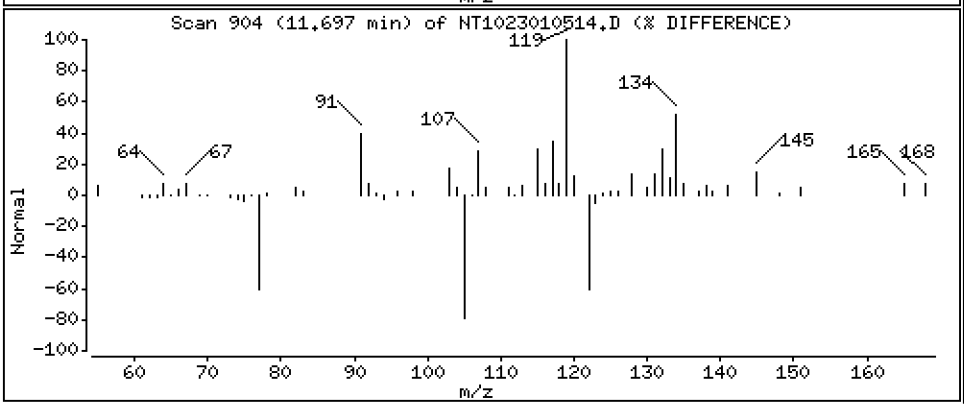
24 Benzoic acid

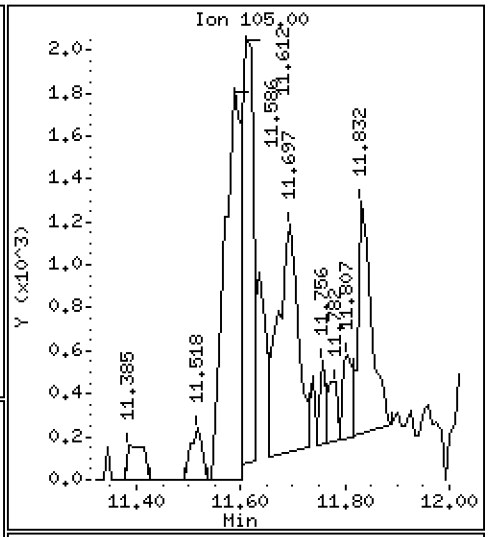
Concentration: 0.3121 ug/mL

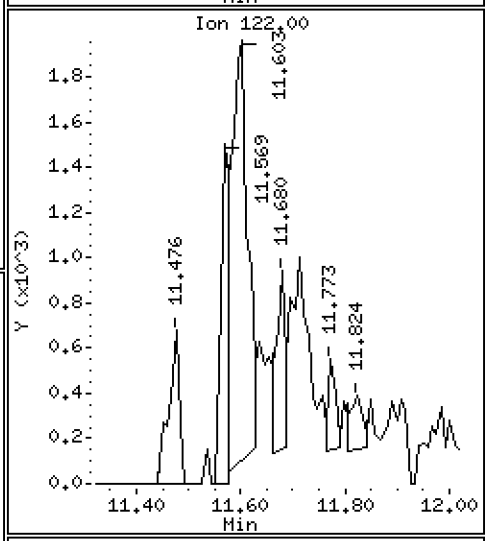


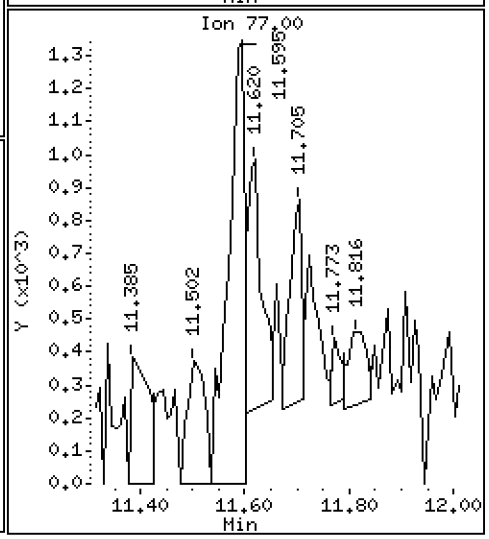












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

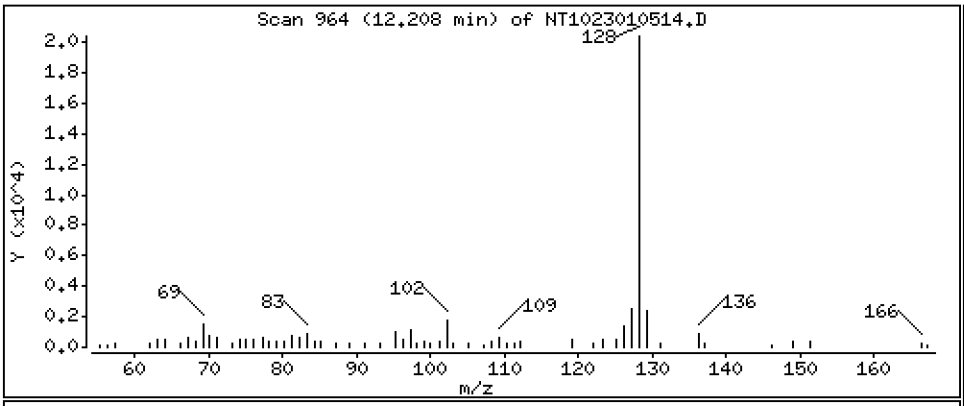
Operator: VTS

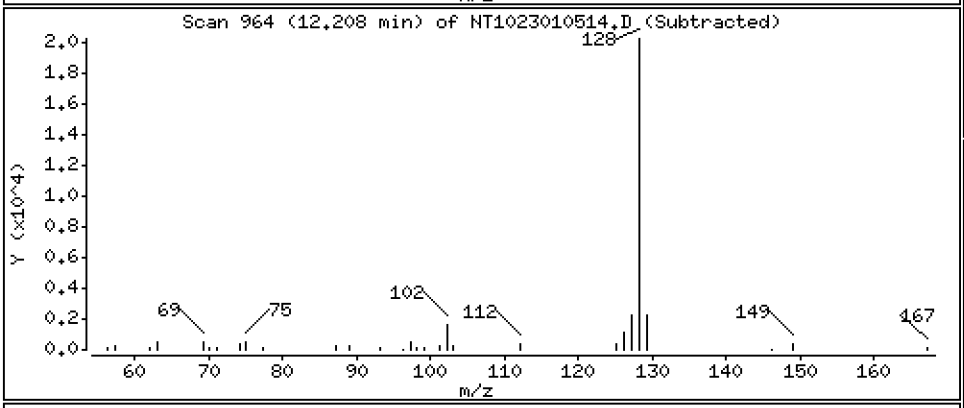
Column phase: ZB-5msi

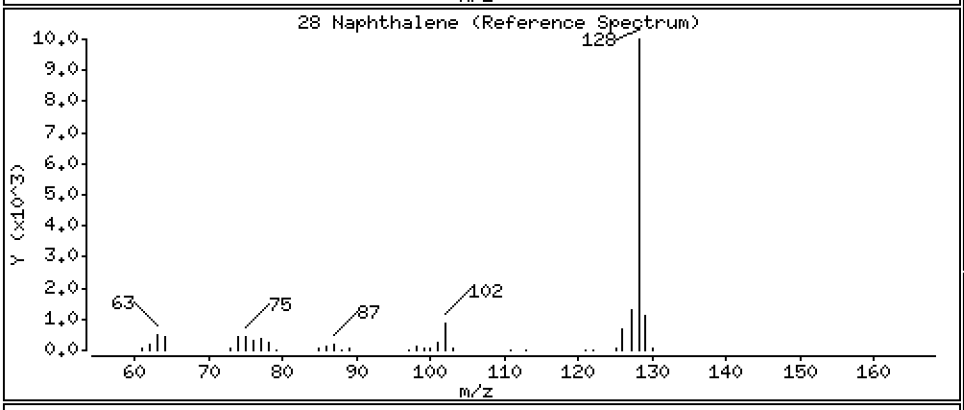
Column diameter: 0.25

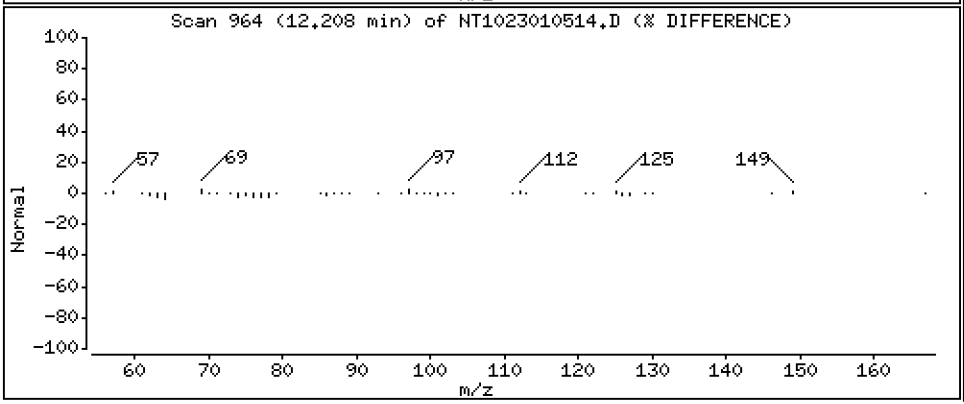
28 Naphthalene

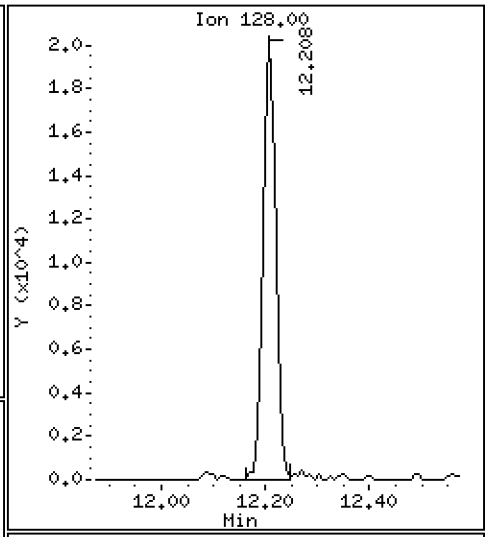
Concentration: 0.4824 ug/mL

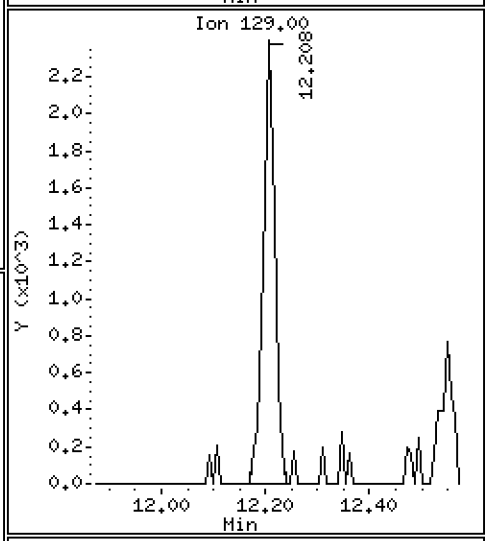


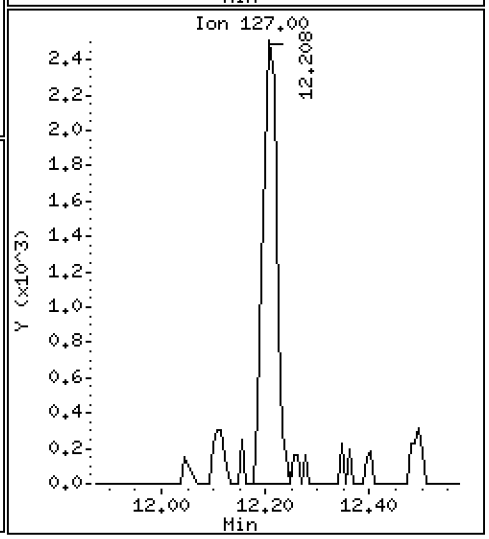












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

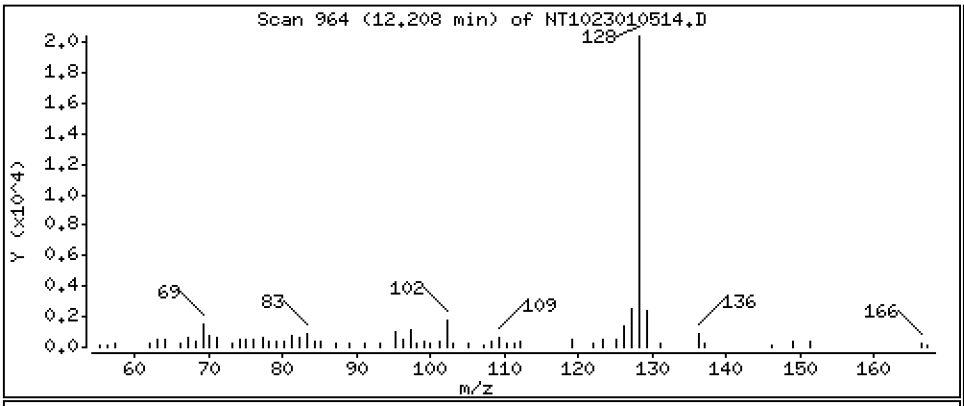
Operator: VTS

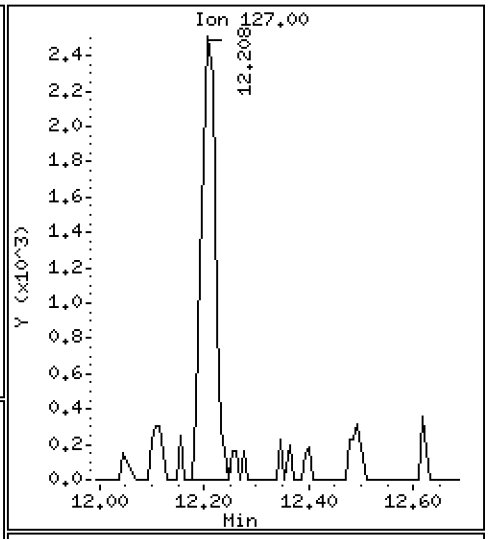
Column phase: ZB-5msi

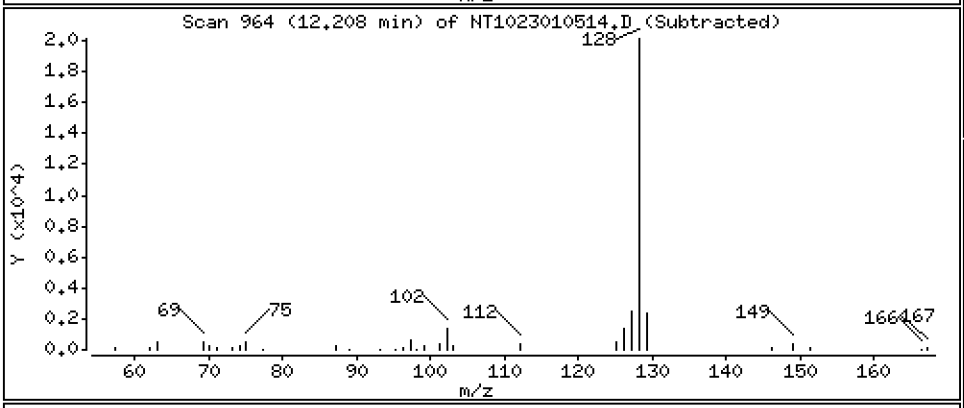
Column diameter: 0.25

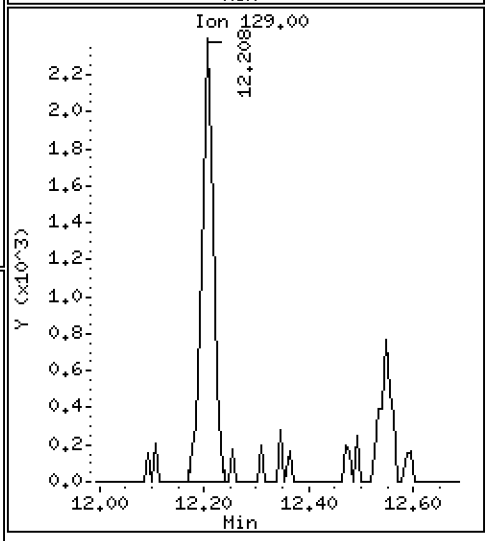
29 4-Chloroaniline

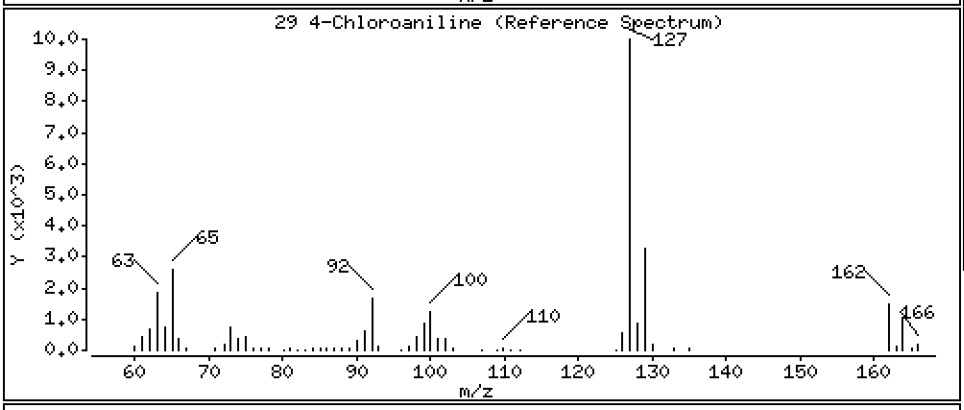
Concentration: 0.1708 ug/mL

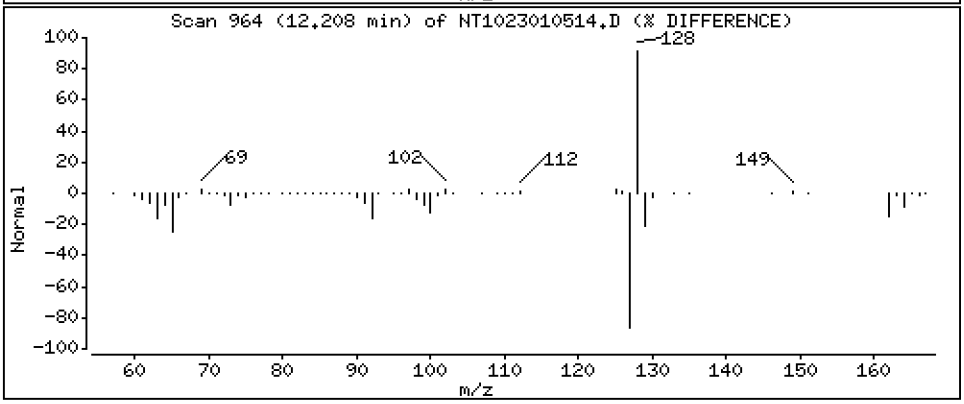












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

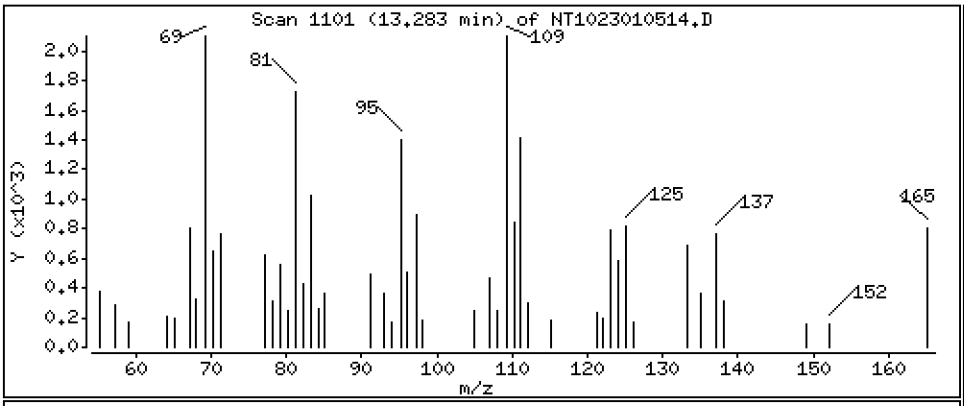
Operator: VTS

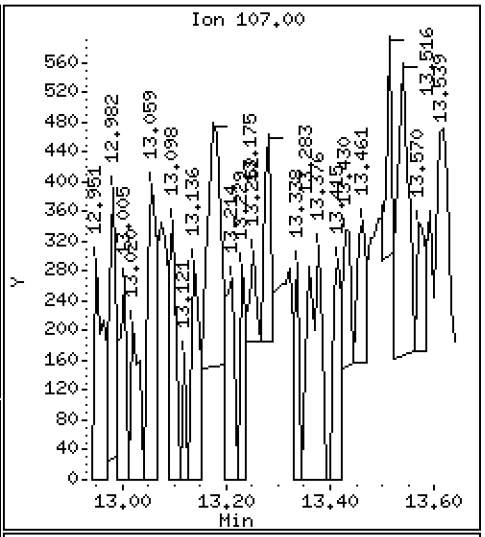
Column phase: ZB-5msi

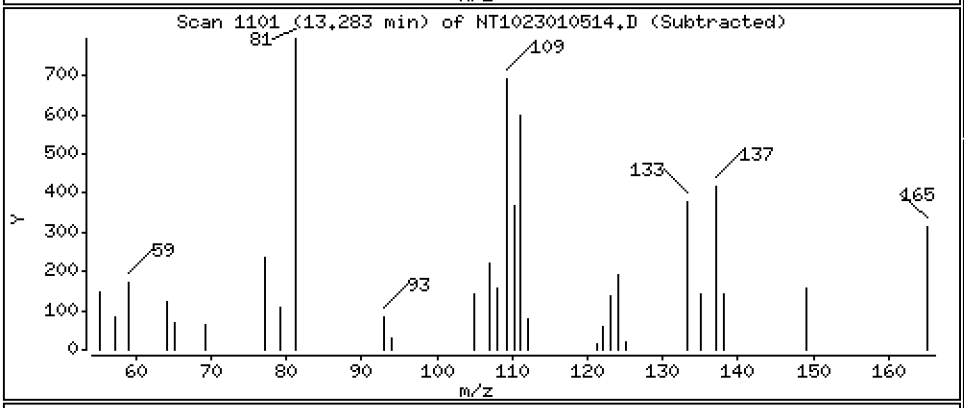
Column diameter: 0.25

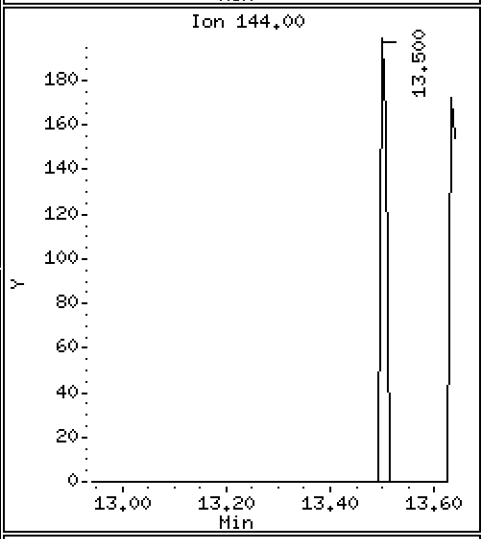
31 4-Chloro-3-methylphenol

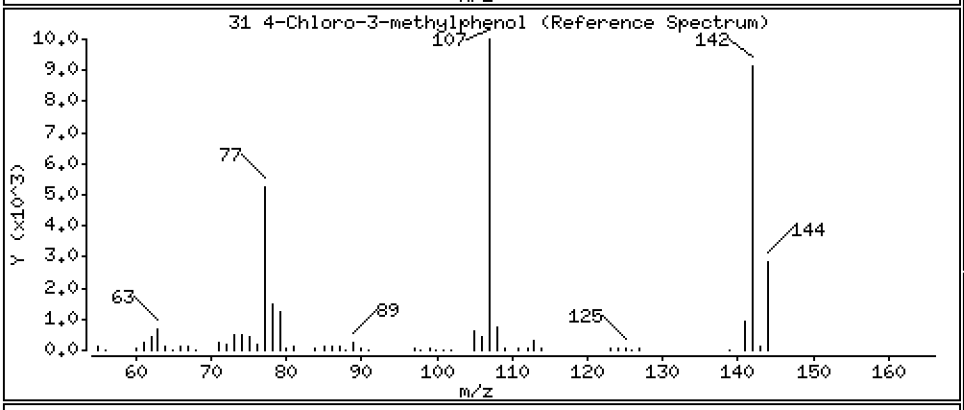
Concentration: 0.01350 ug/mL

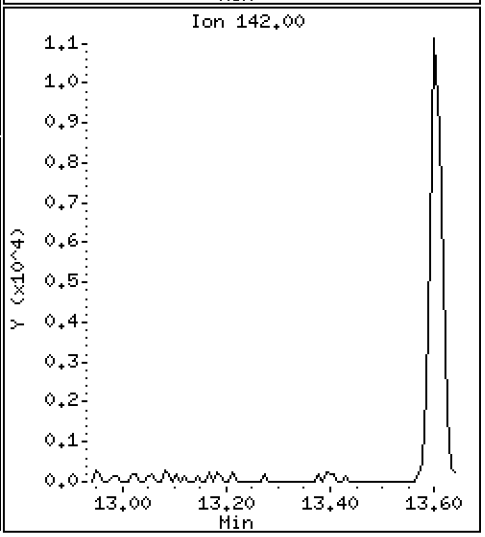


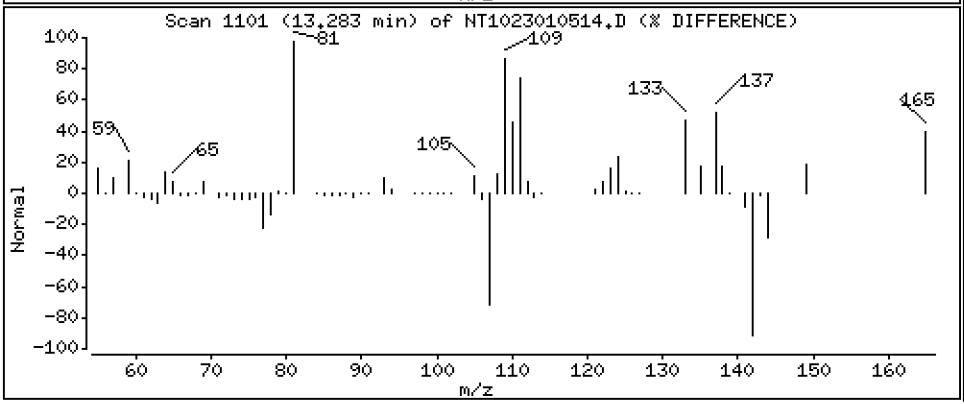












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

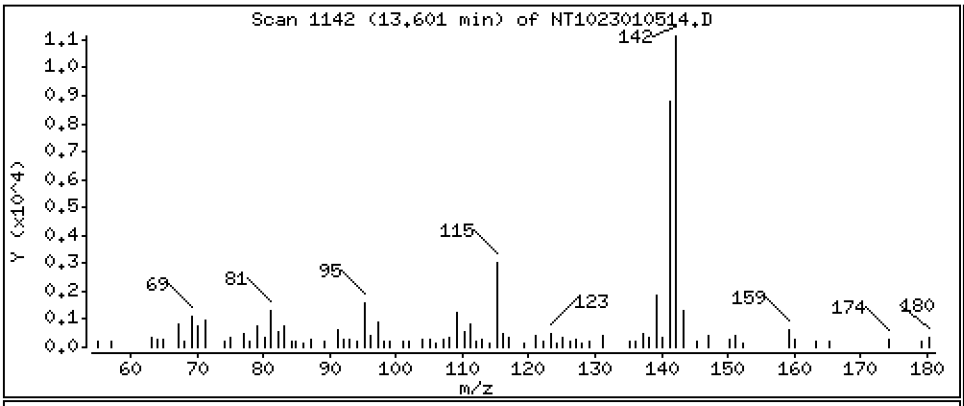
Operator: VTS

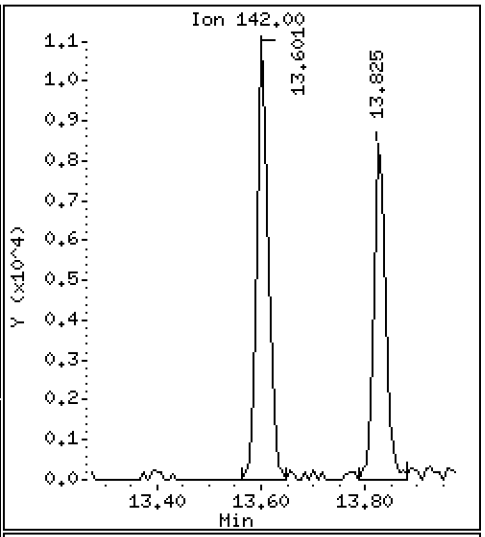
Column phase: ZB-5msi

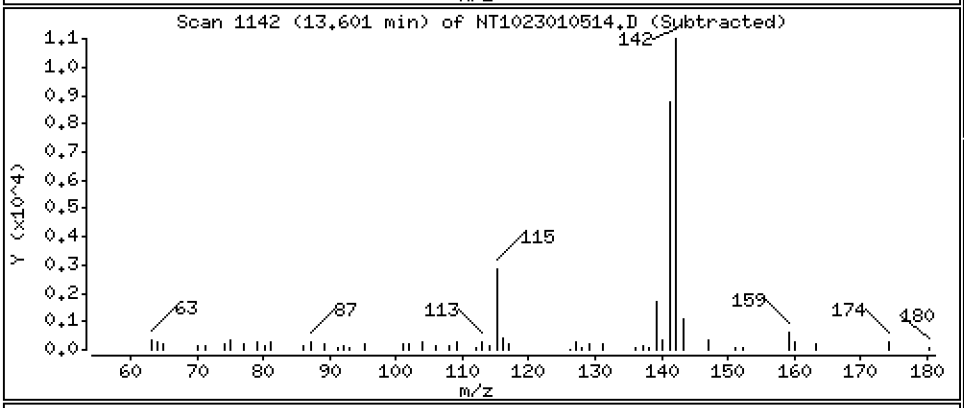
Column diameter: 0.25

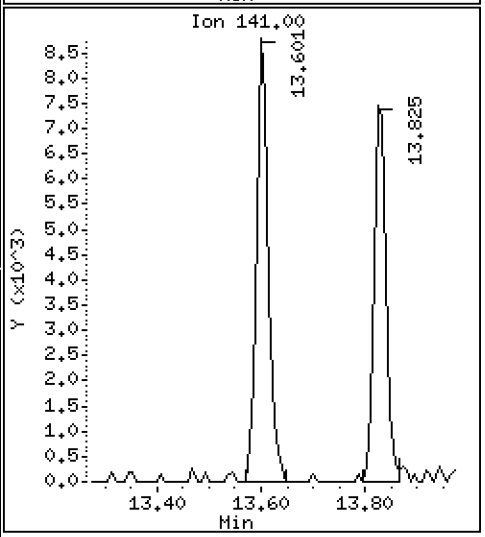
32 2-Methylnaphthalene

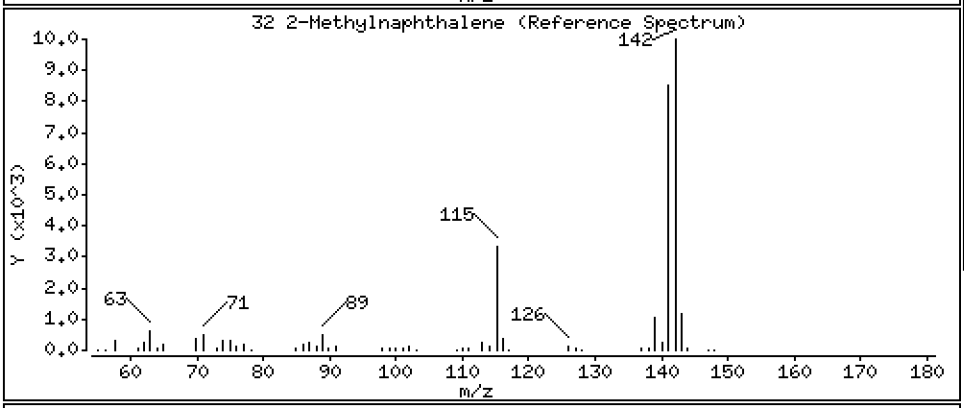
Concentration: 0.3177 ug/mL

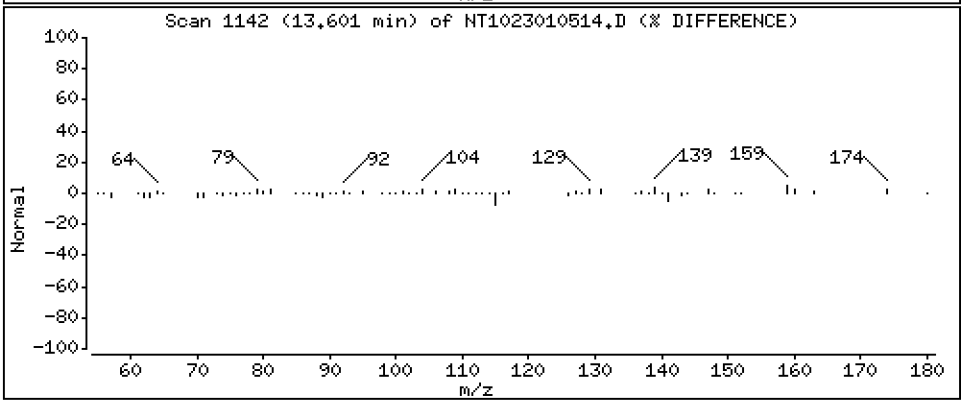












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

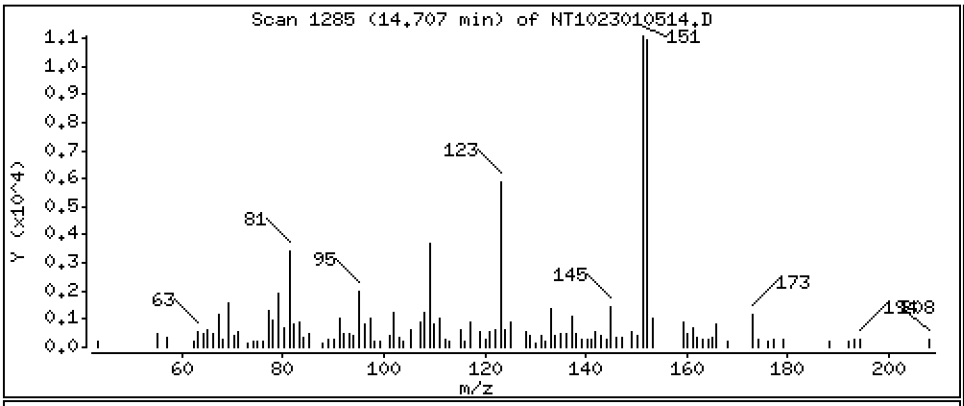
Operator: VTS

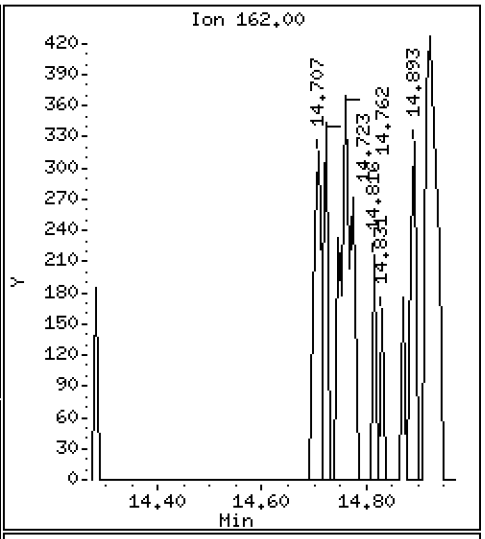
Column phase: ZB-5msi

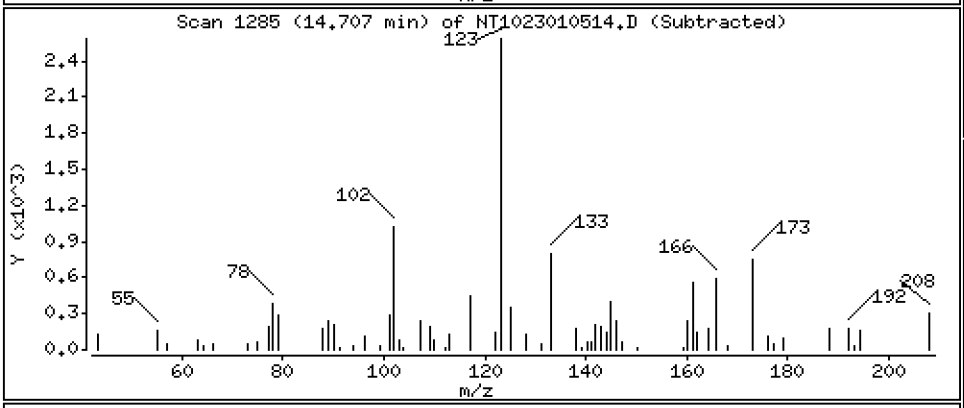
Column diameter: 0.25

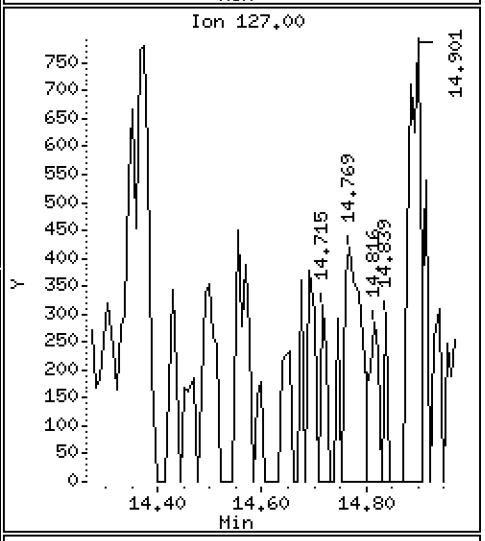
37 2-Chloronaphthalene

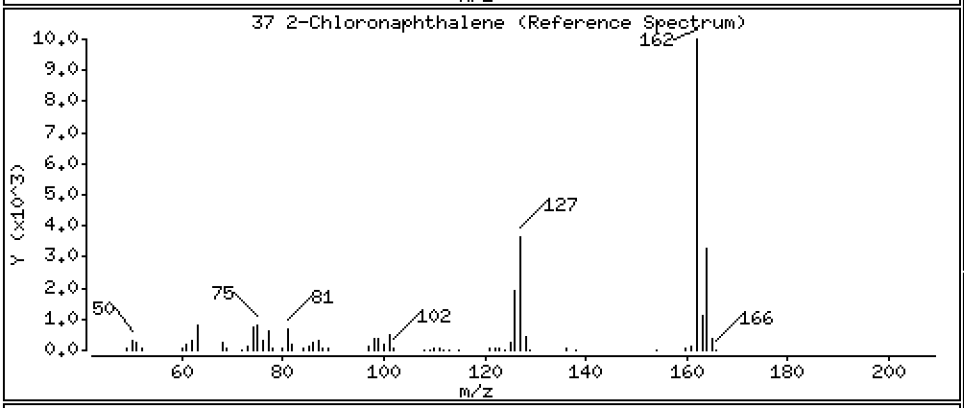
Concentration: 0.008424 ug/mL

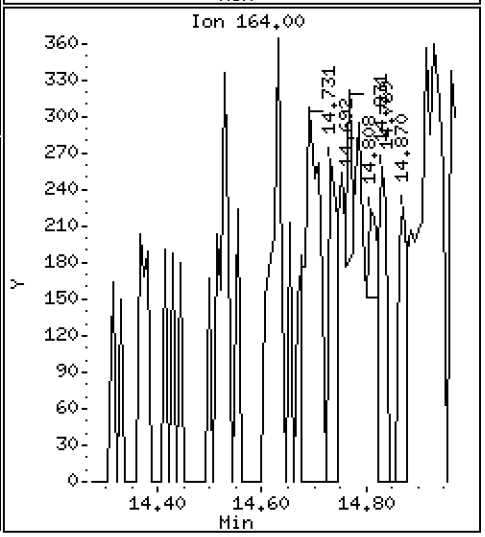


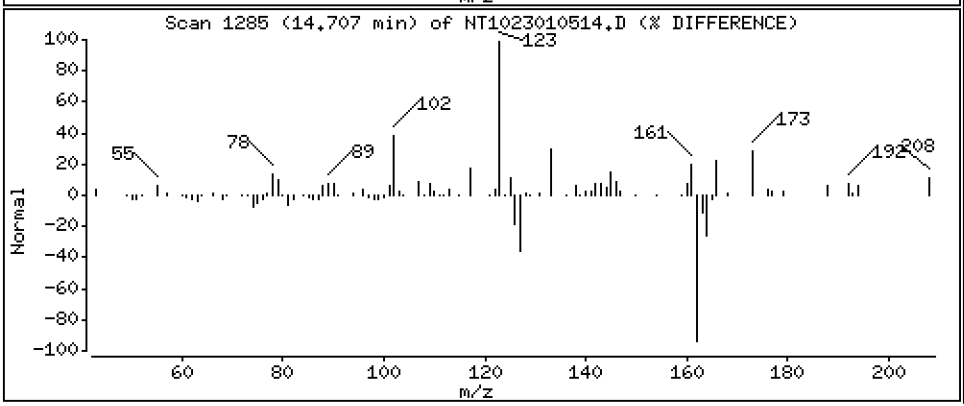












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

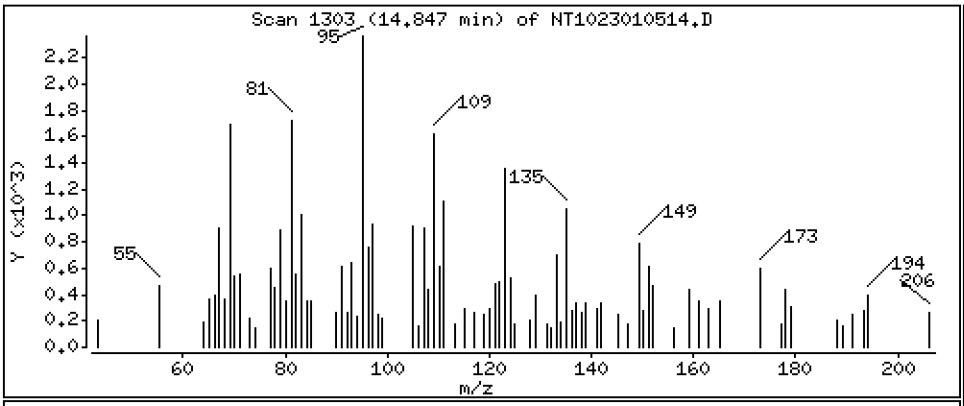
Operator: VTS

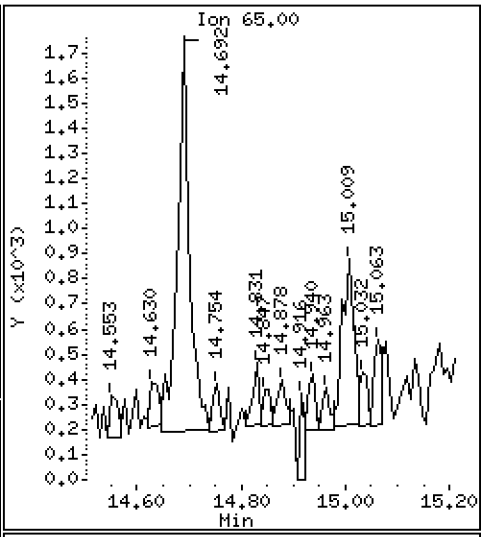
Column phase: ZB-5msi

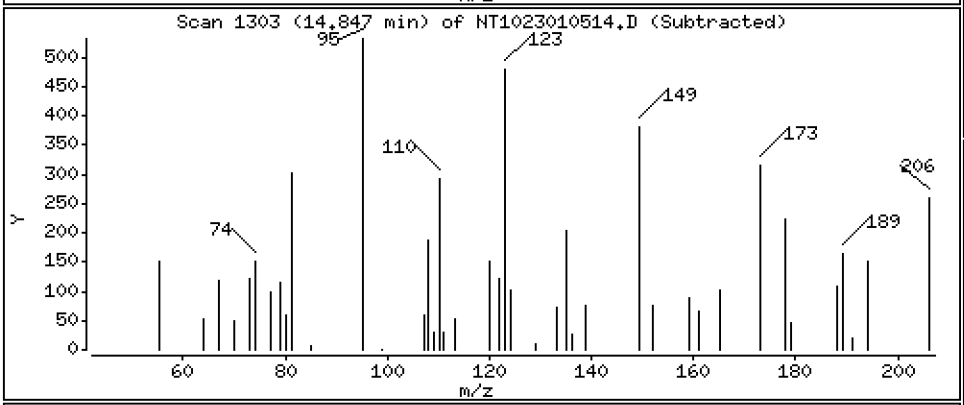
Column diameter: 0.25

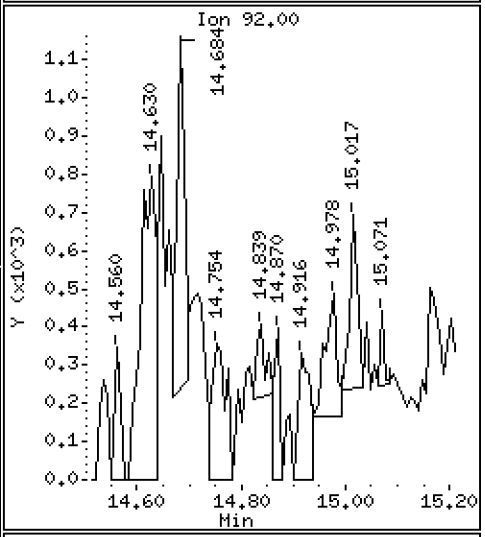
38 2-Nitroaniline

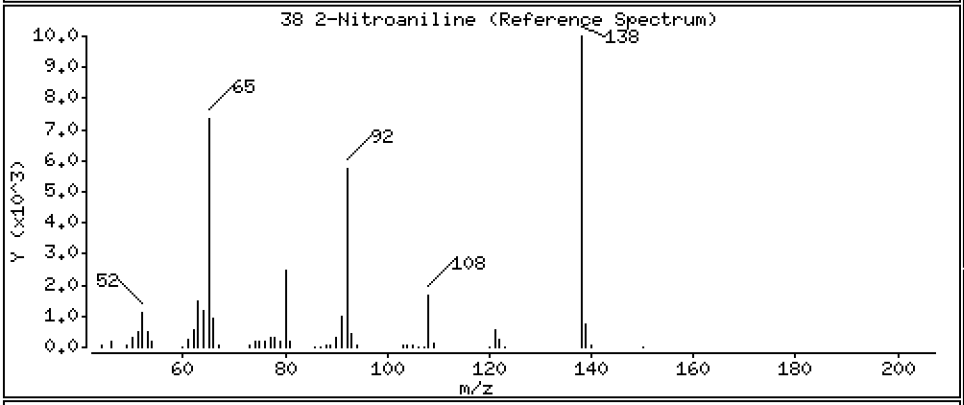
Concentration: 0.02953 ug/mL

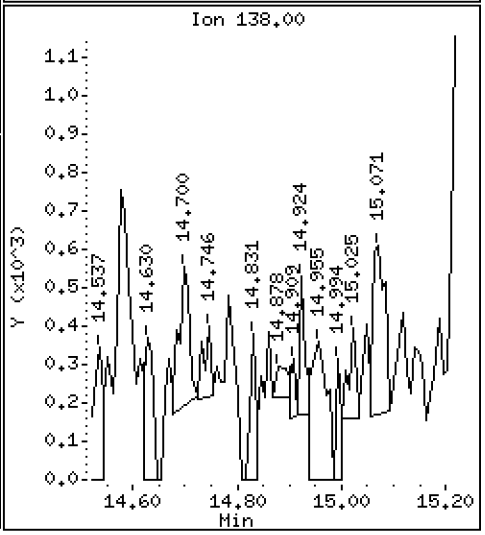


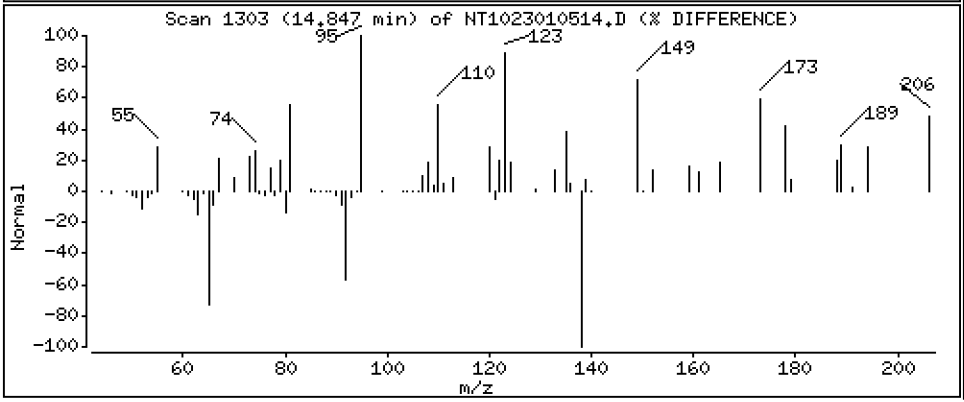












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

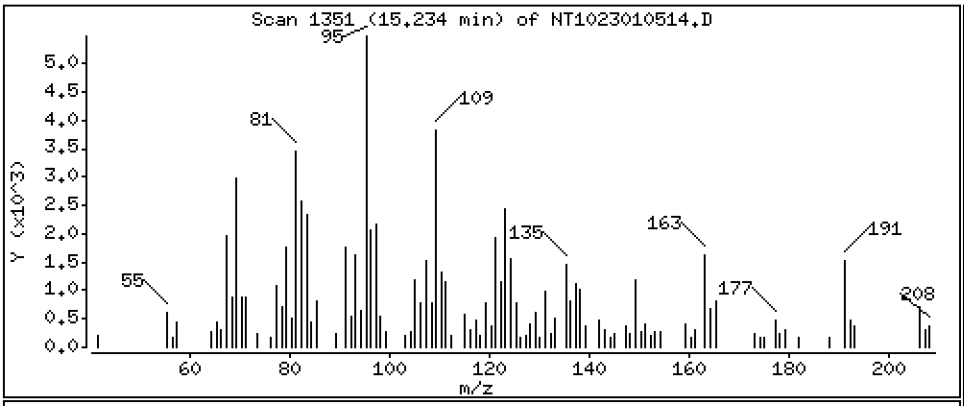
Operator: VTS

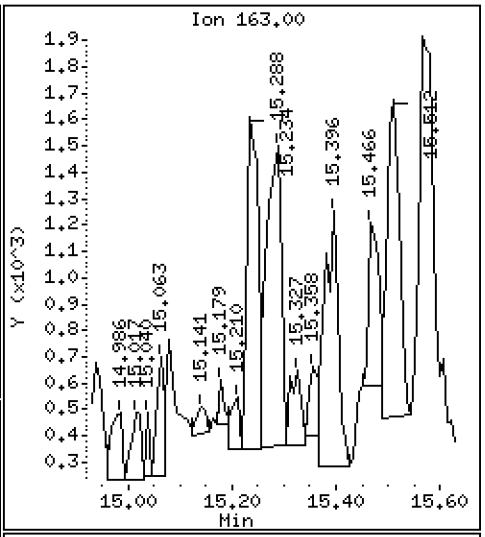
Column phase: ZB-5msi

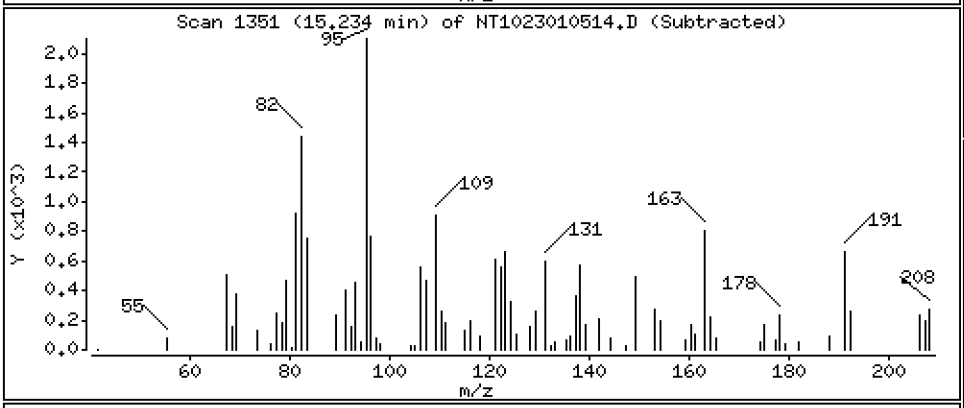
Column diameter: 0.25

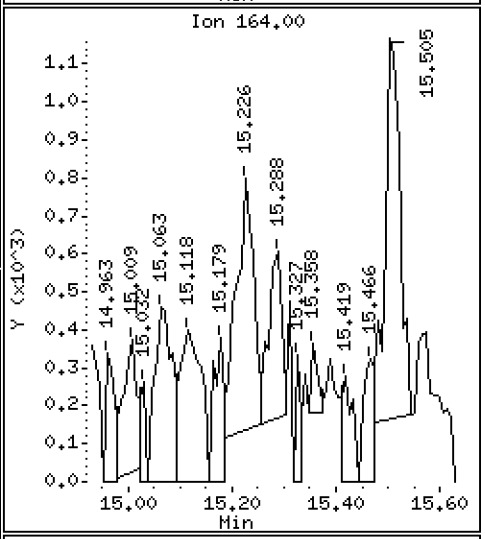
39 Dimethylphthalate

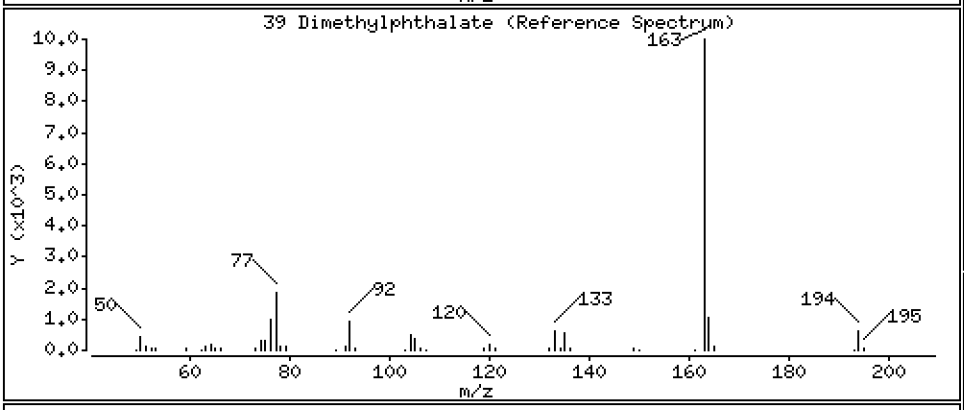
Concentration: 0.05486 ug/mL

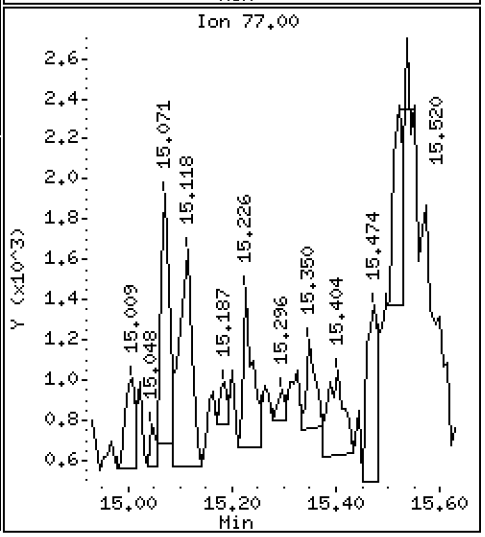


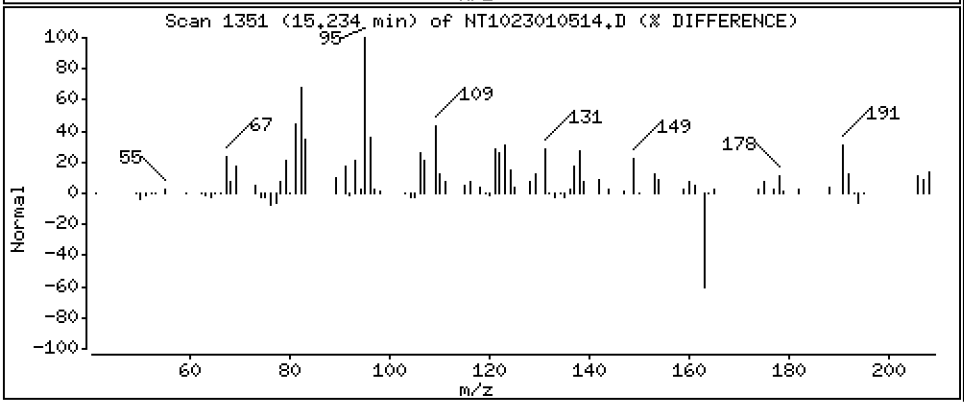












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

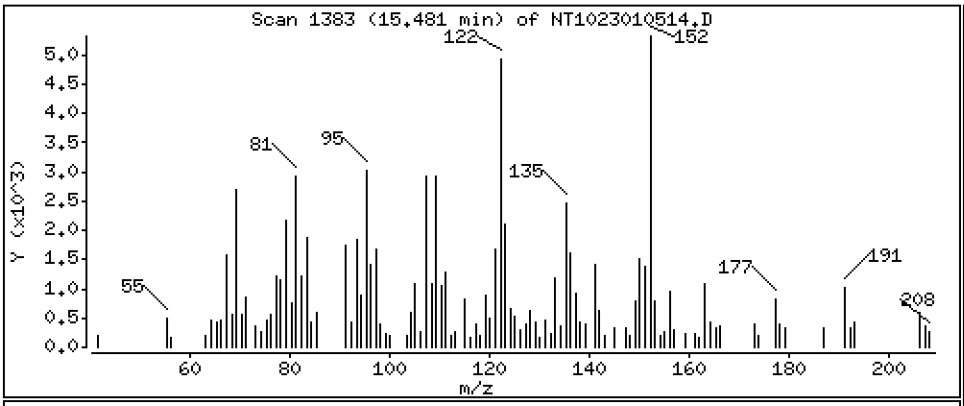
Operator: VTS

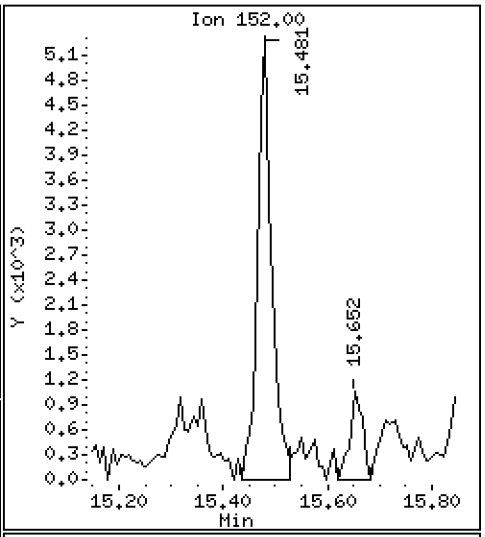
Column phase: ZB-5msi

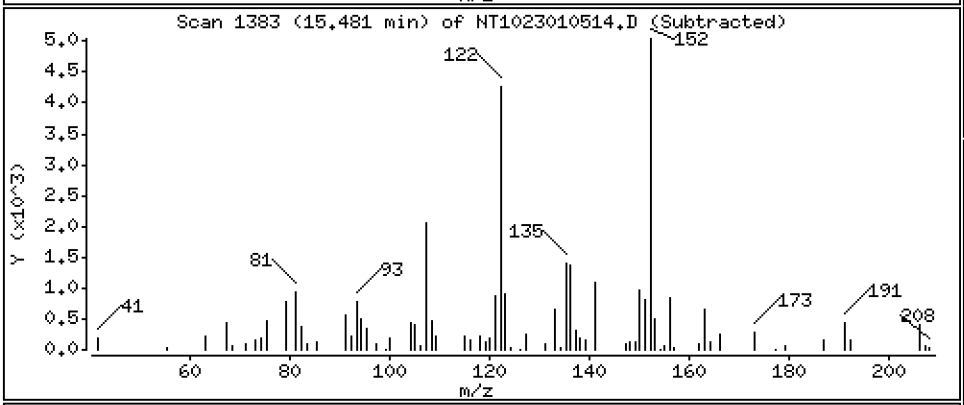
Column diameter: 0.25

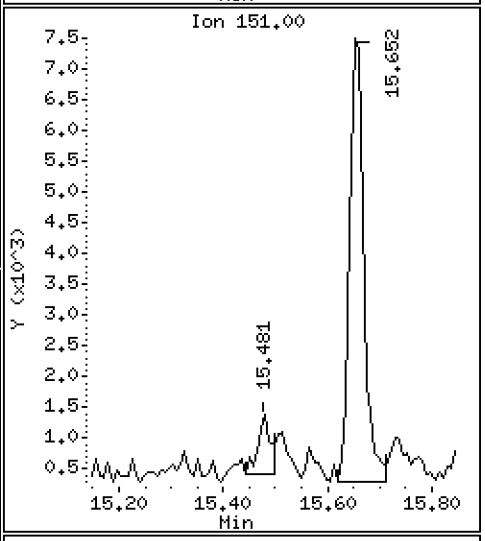
40 Acenaphthylene

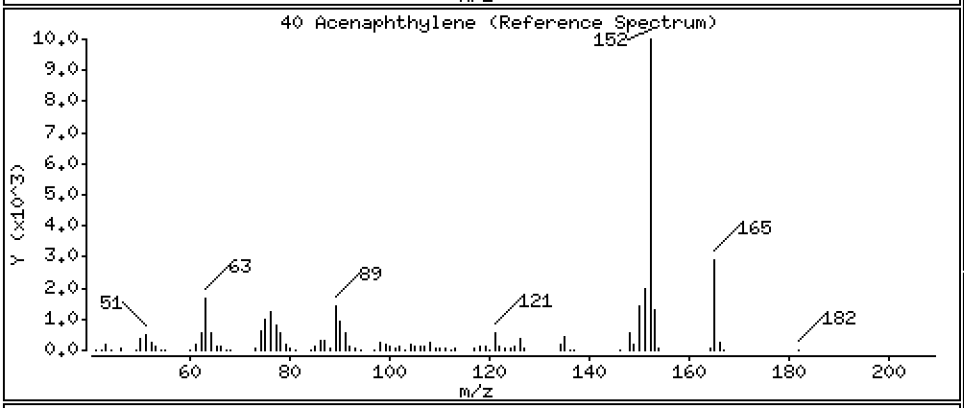
Concentration: 0.1691 ug/mL

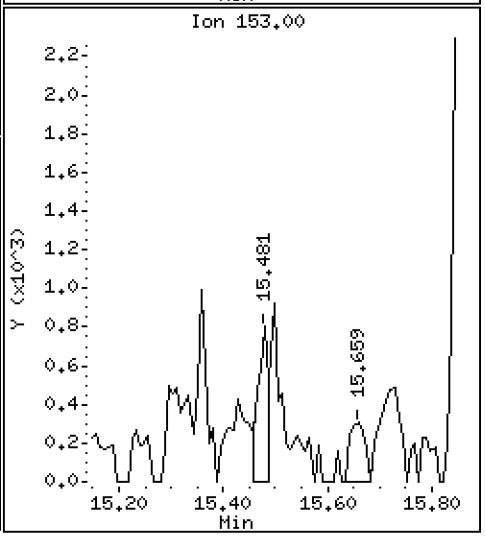


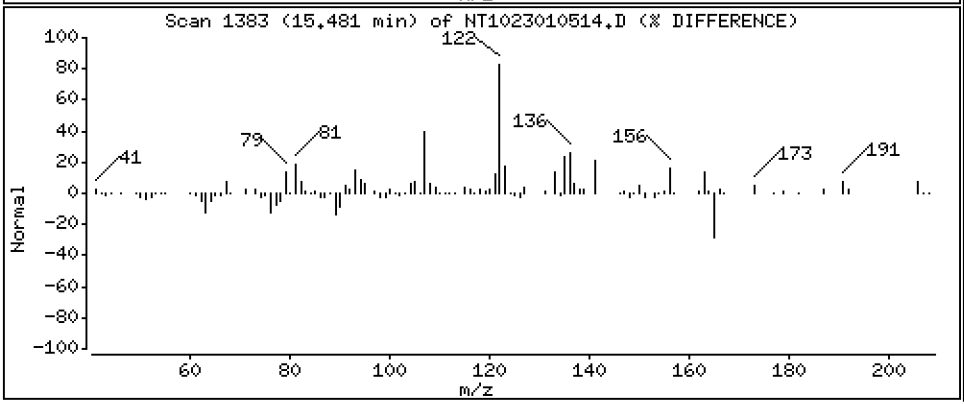












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

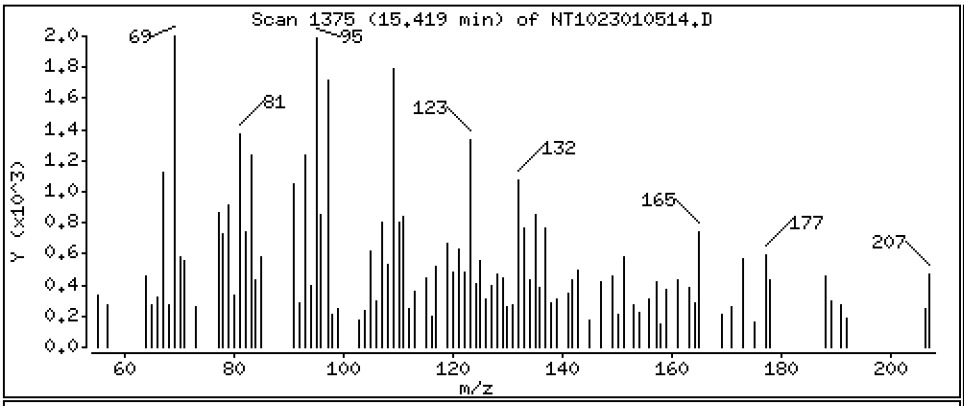
Operator: VTS

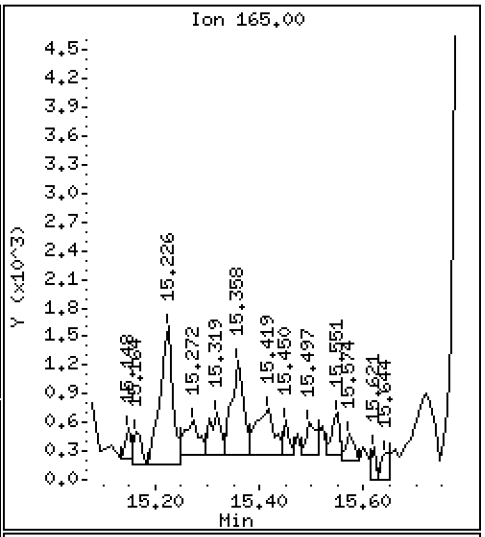
Column phase: ZB-5msi

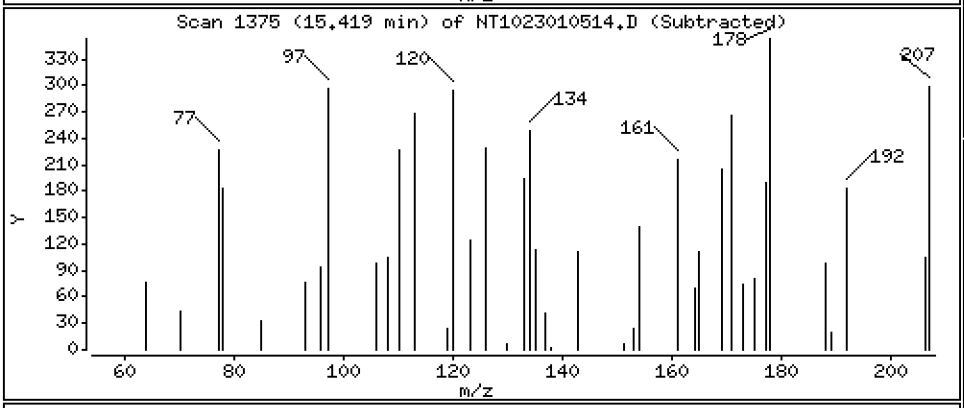
Column diameter: 0.25

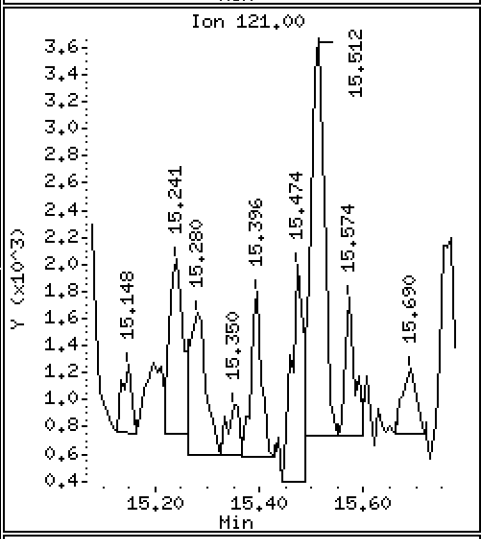
41 2,6-Dinitrotoluene

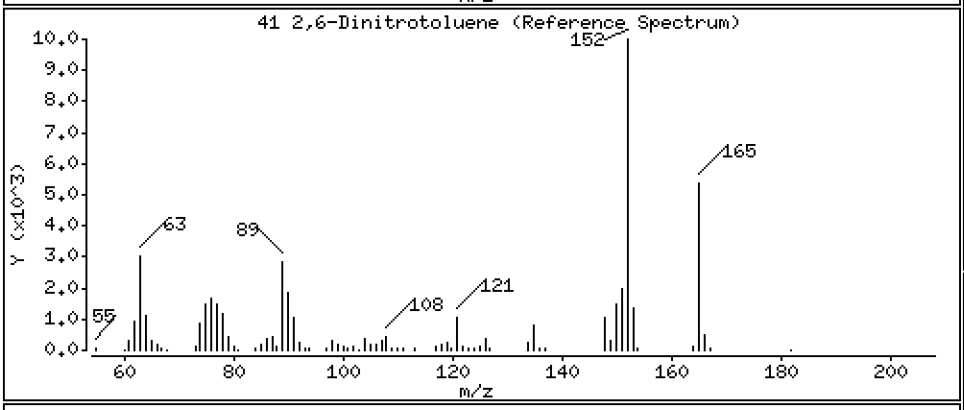
Concentration: 0.1452 ug/mL

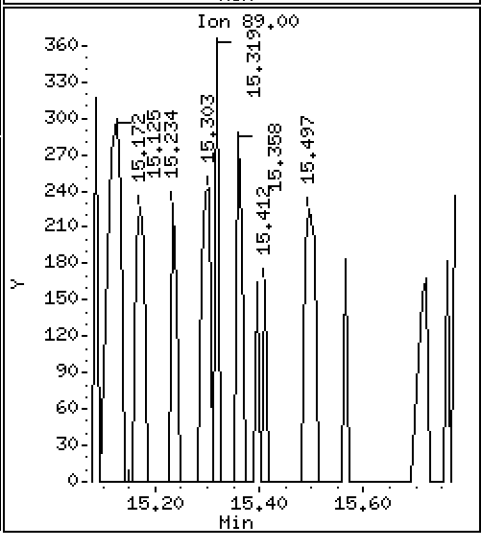


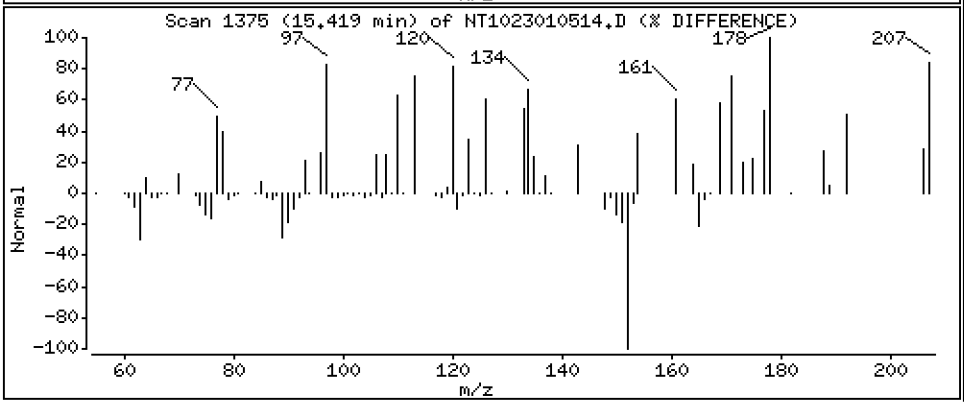












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

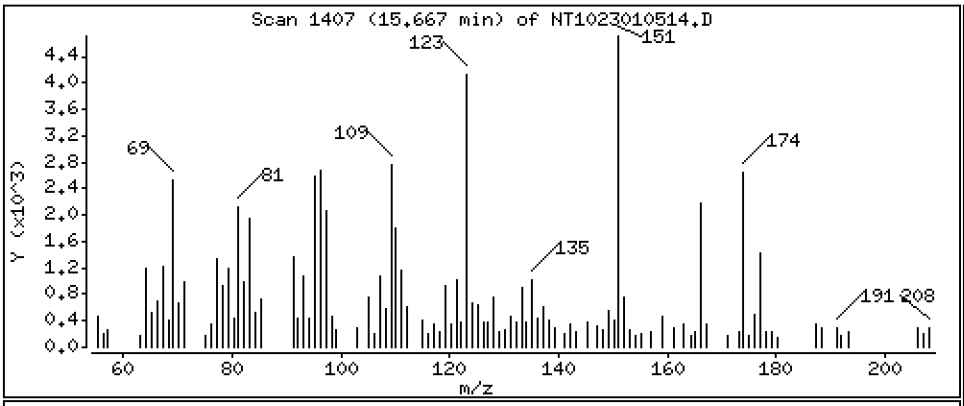
Operator: VTS

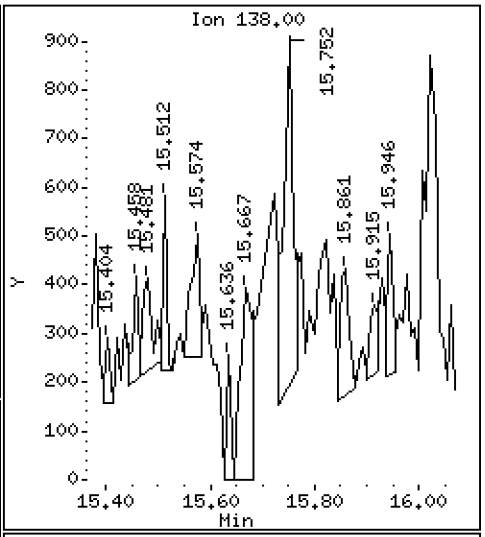
Column phase: ZB-5msi

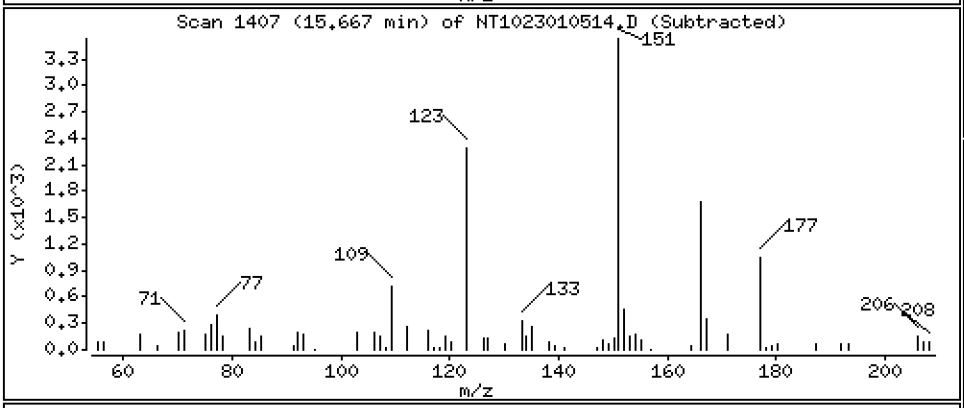
Column diameter: 0.25

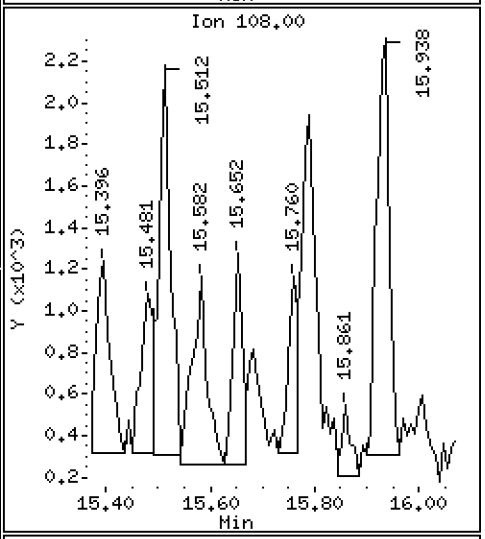
43 3-Nitroaniline

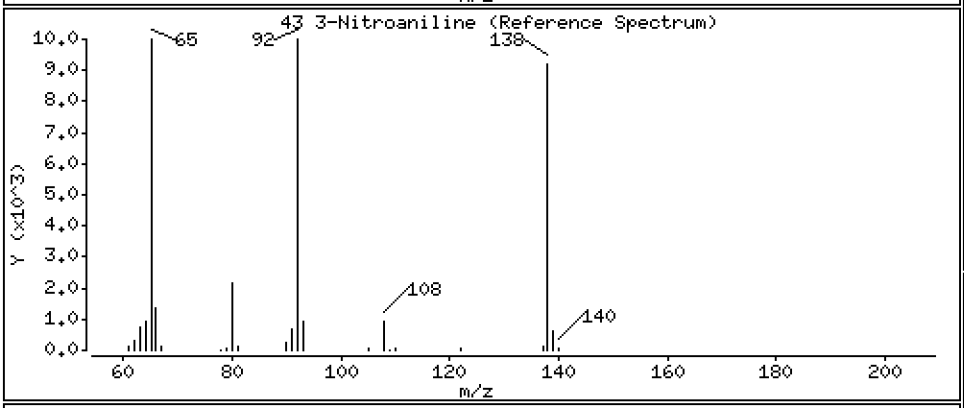
Concentration: 0.1198 ug/mL

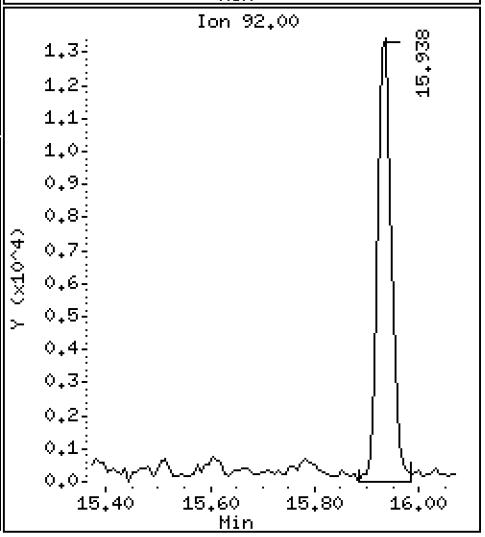


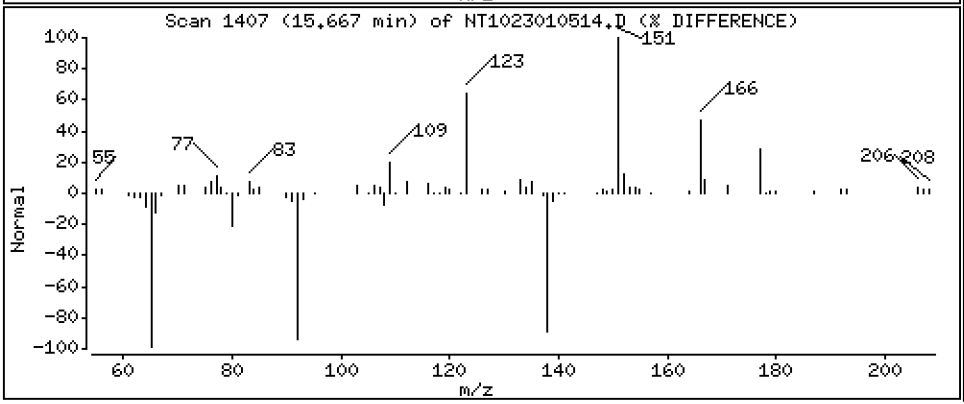












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

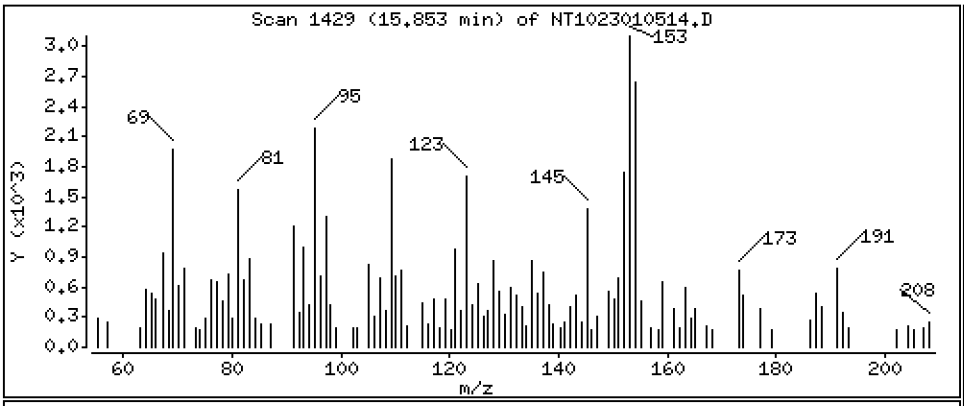
Operator: VTS

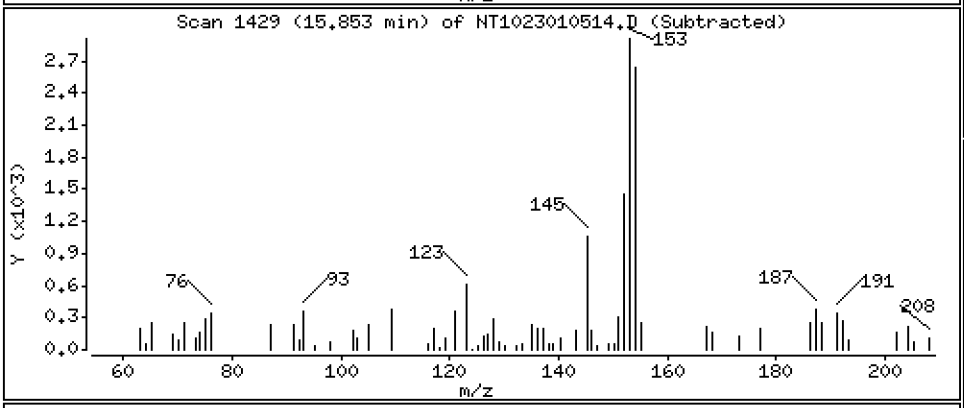
Column phase: ZB-5msi

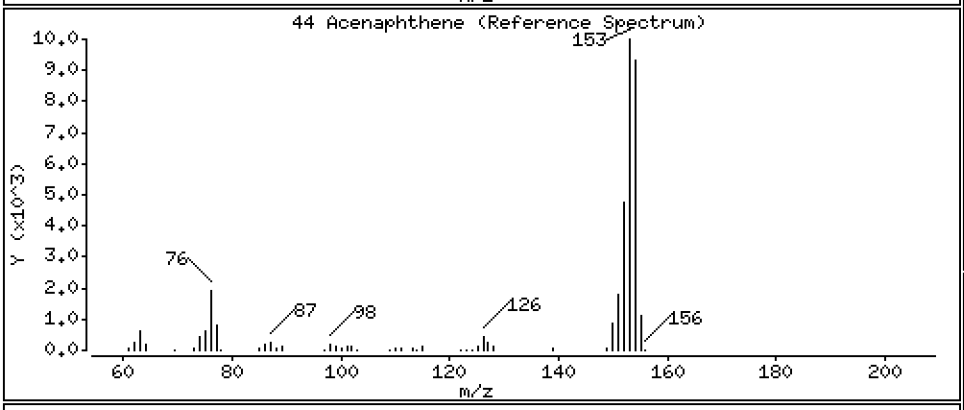
Column diameter: 0.25

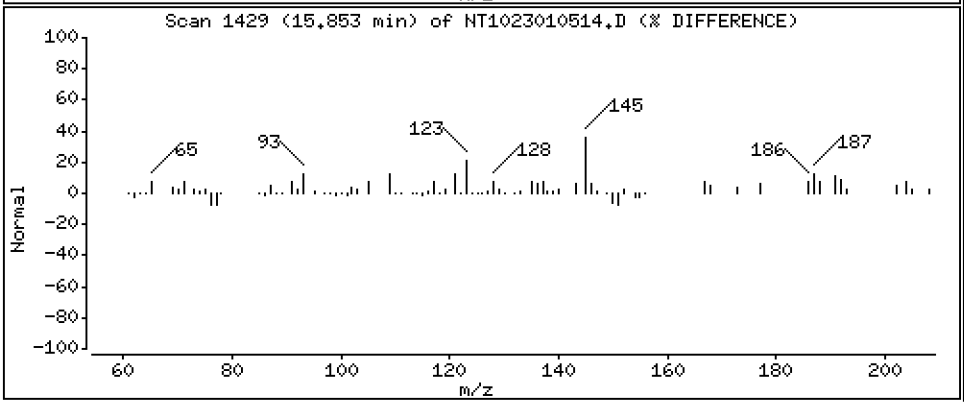
44 Acenaphthene

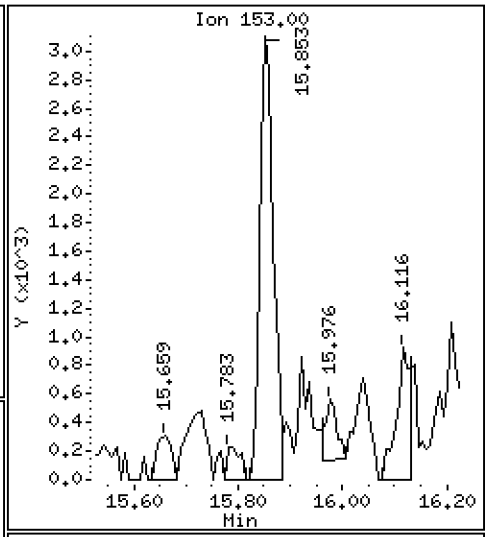
Concentration: 0.1713 ug/mL

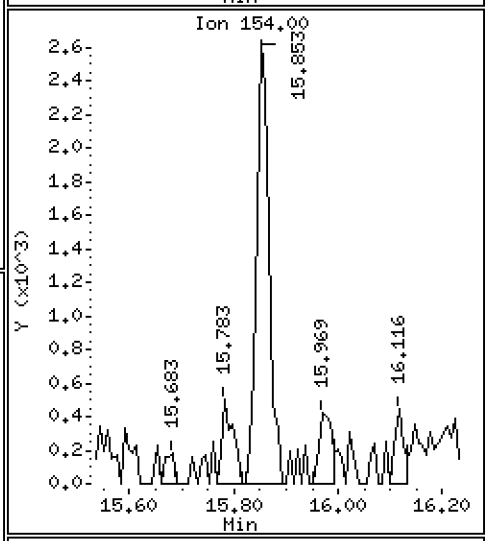


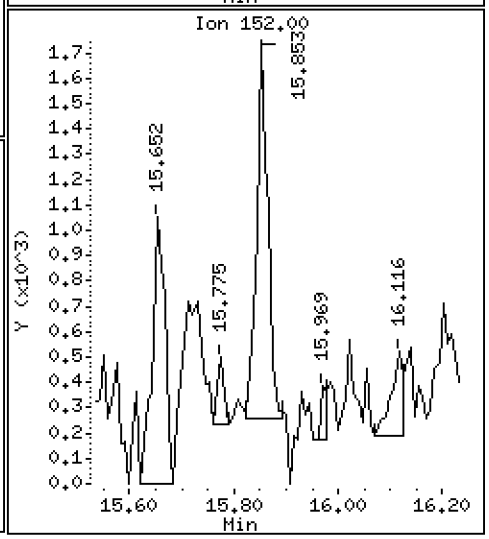












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

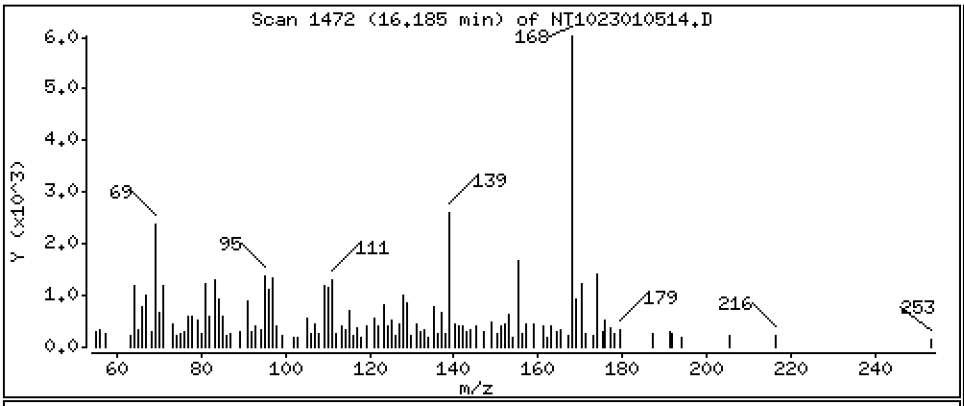
Operator: VTS

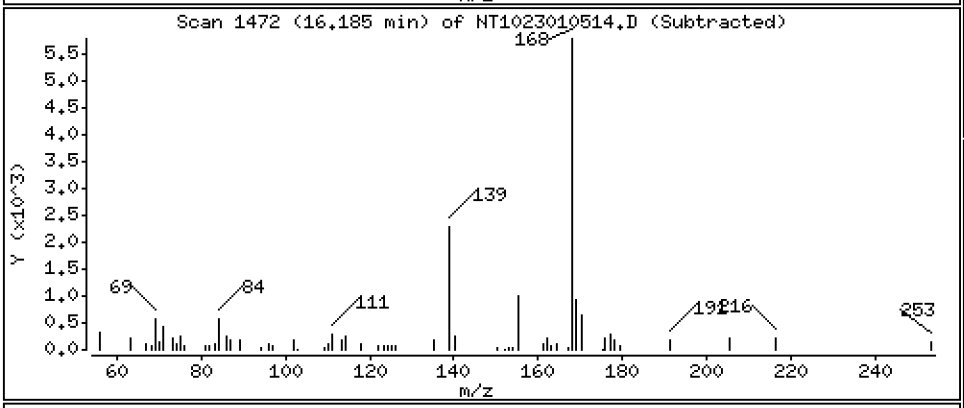
Column phase: ZB-5msi

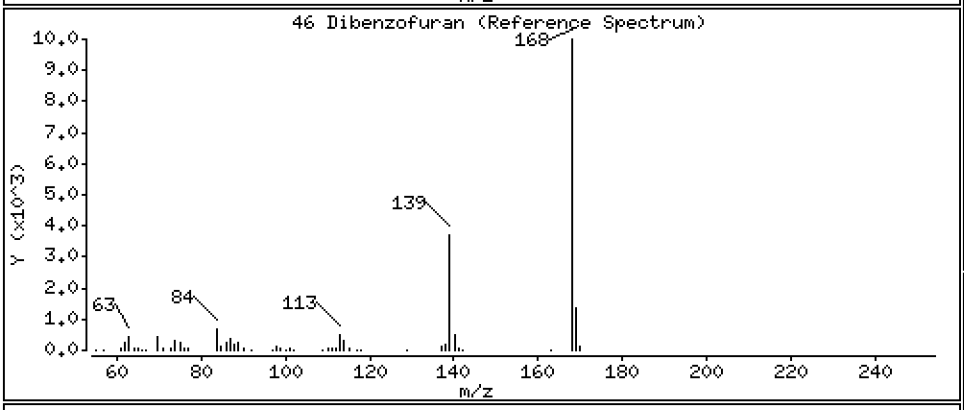
Column diameter: 0.25

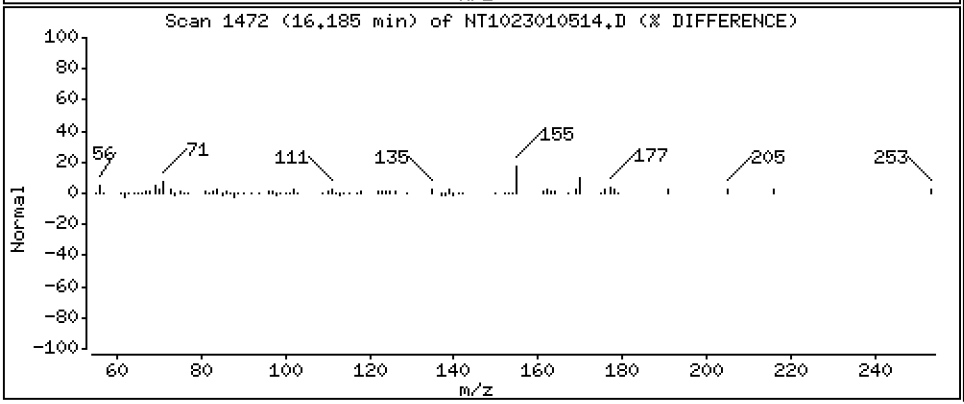
46 Dibenzofuran

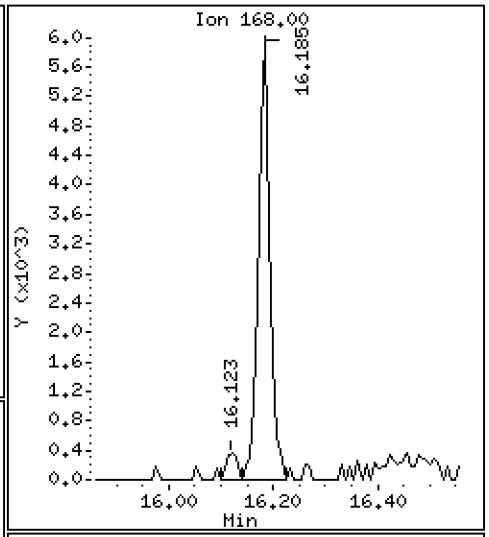
Concentration: 0.1919 ug/mL

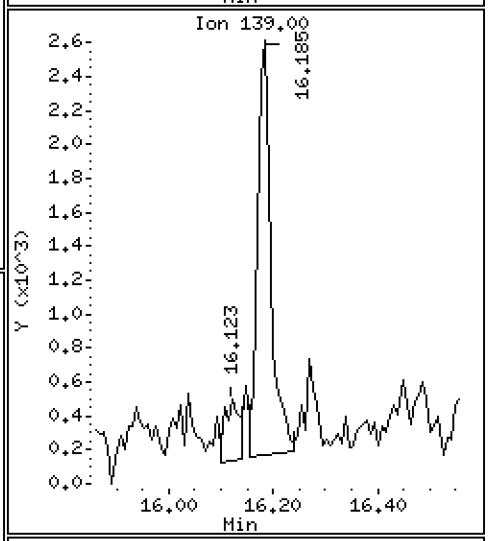


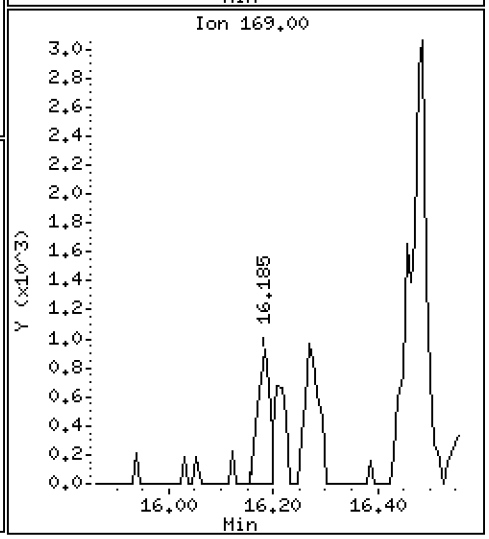












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

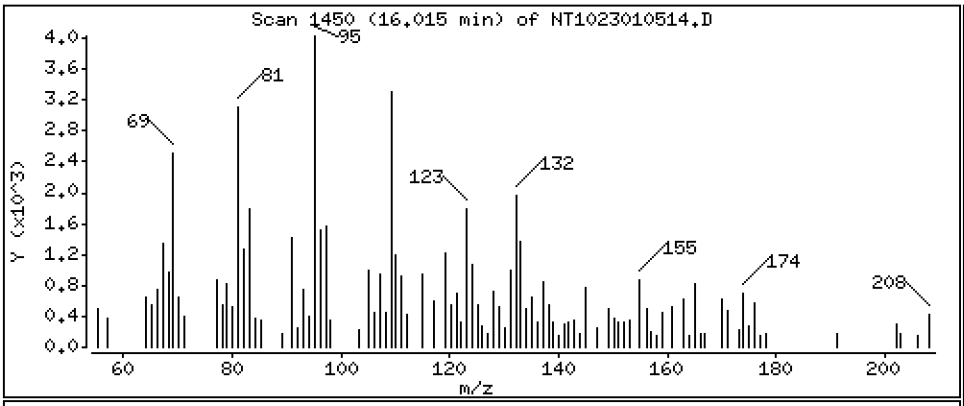
Operator: VTS

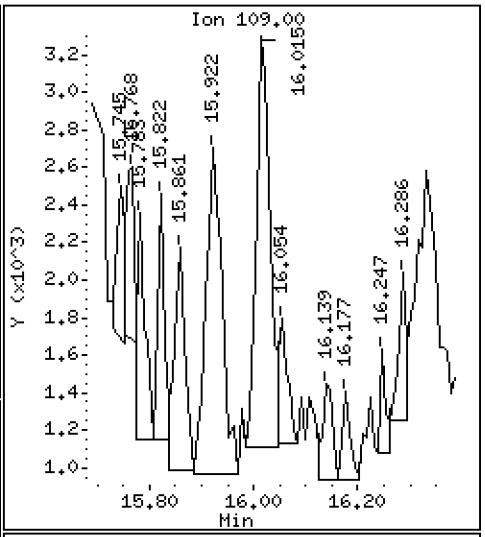
Column phase: ZB-5msi

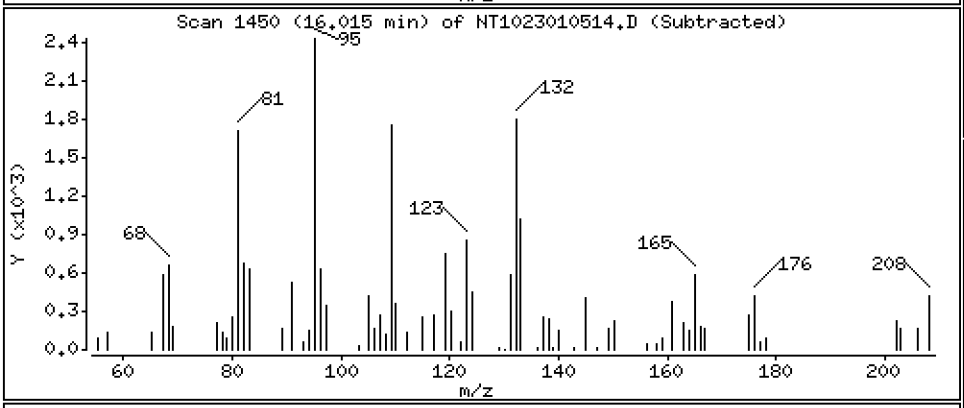
Column diameter: 0.25

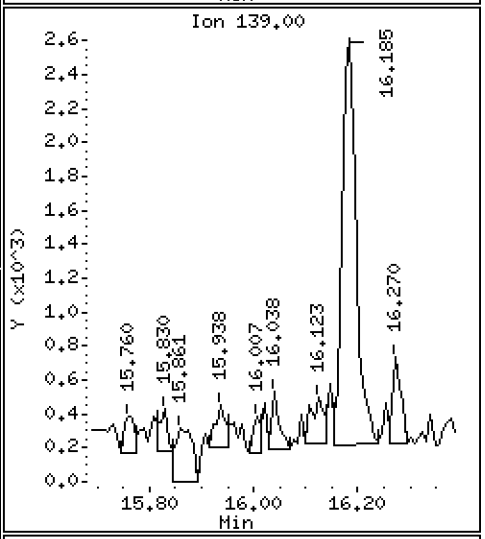
47 4-Nitrophenol

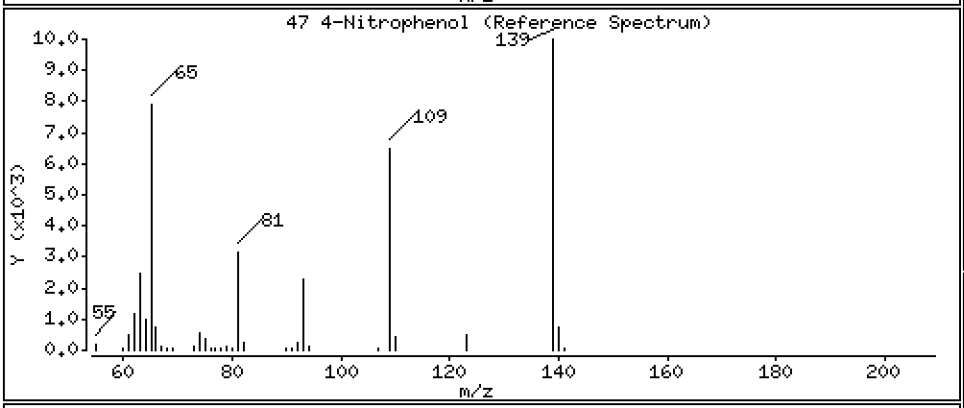
Concentration: 0.9112 ug/mL

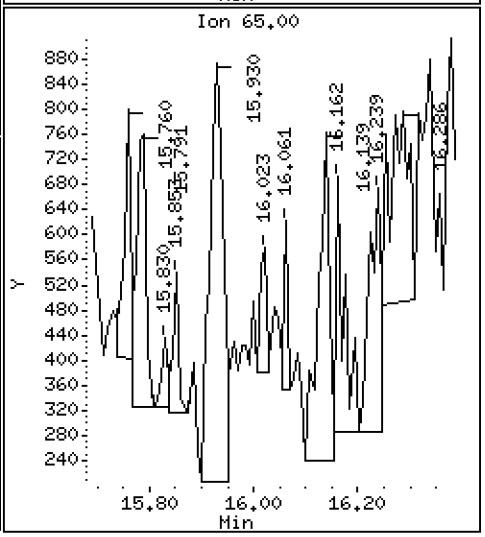


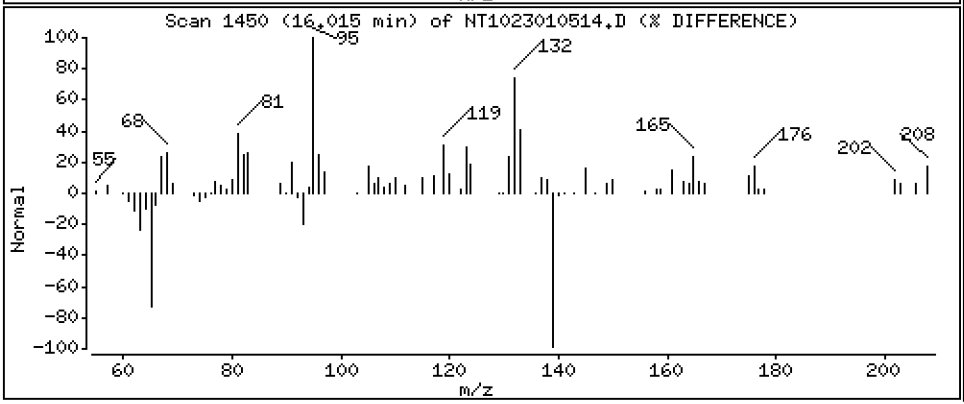












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010514.D

Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

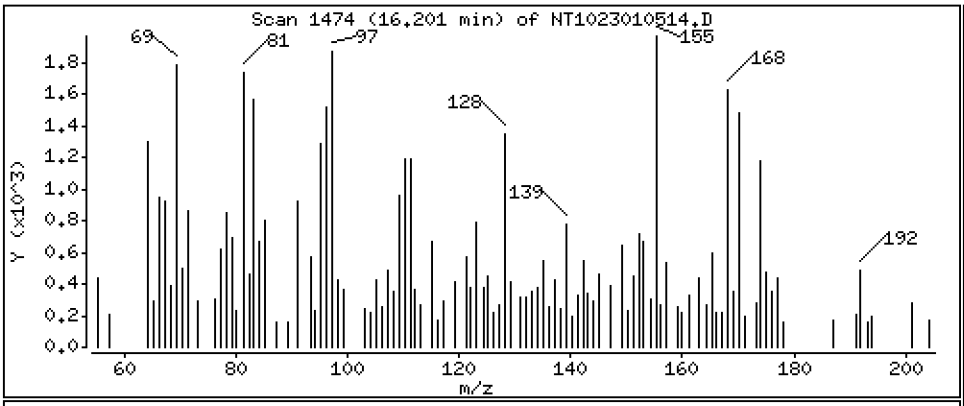
Operator: VTS

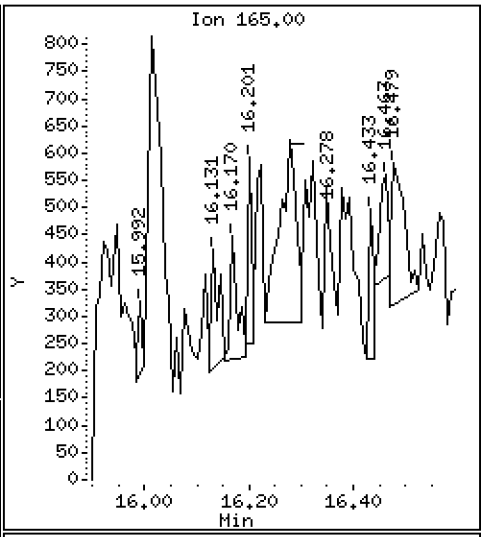
Column phase: ZB-5msi

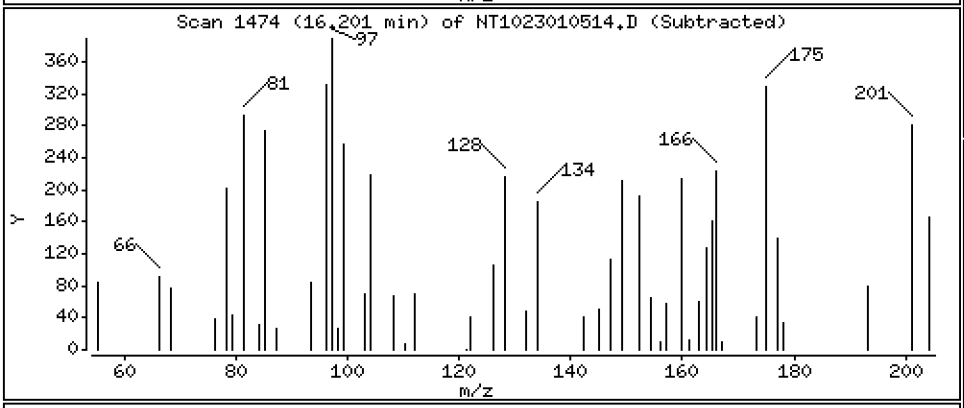
Column diameter: 0.25

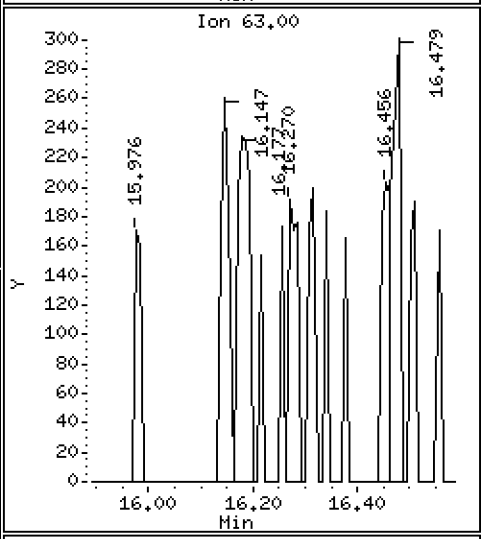
48 2,4-Dinitrotoluene

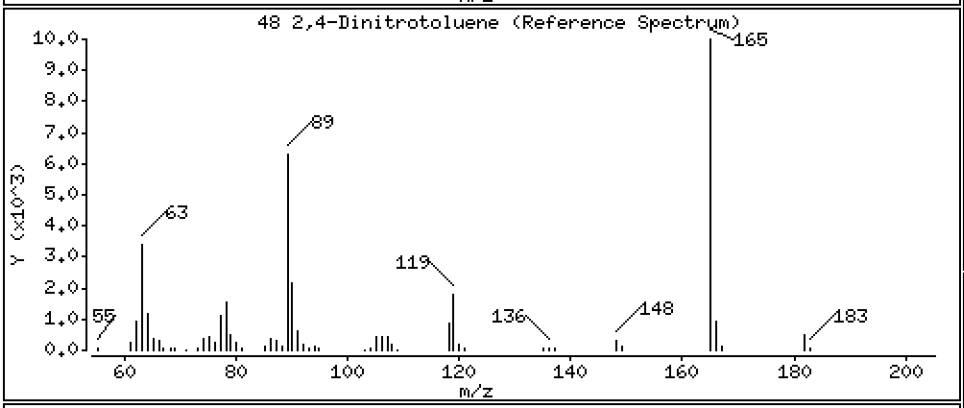
Concentration: 0.01718 ug/mL

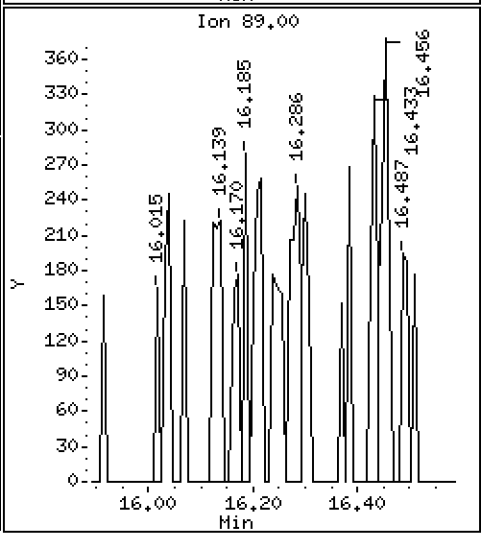


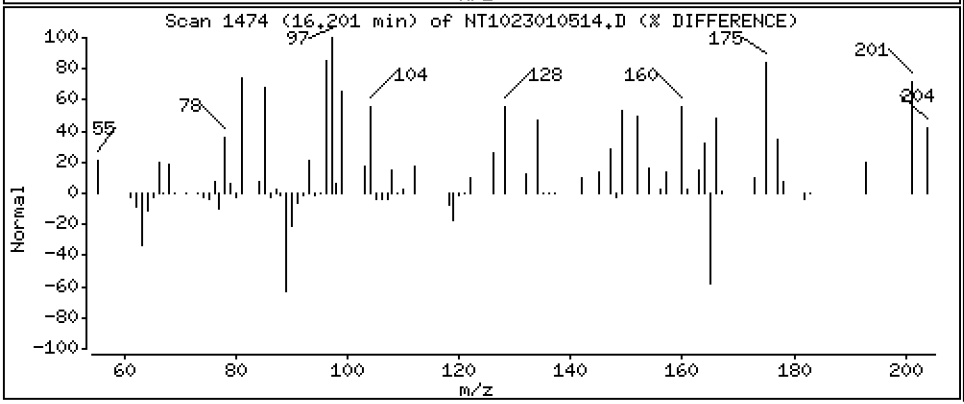












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

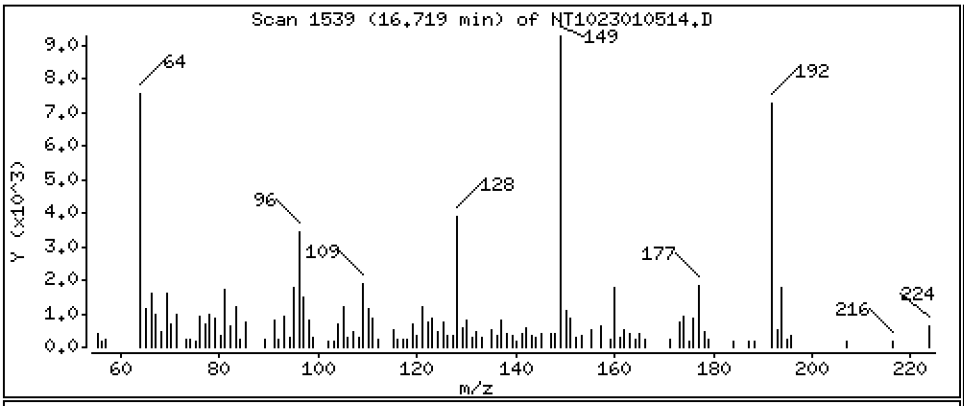
Operator: VTS

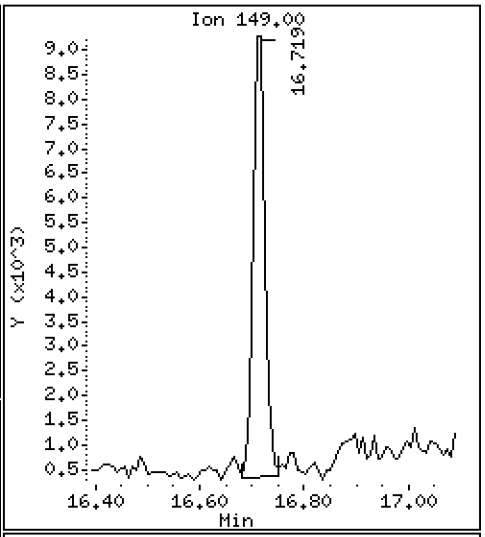
Column phase: ZB-5msi

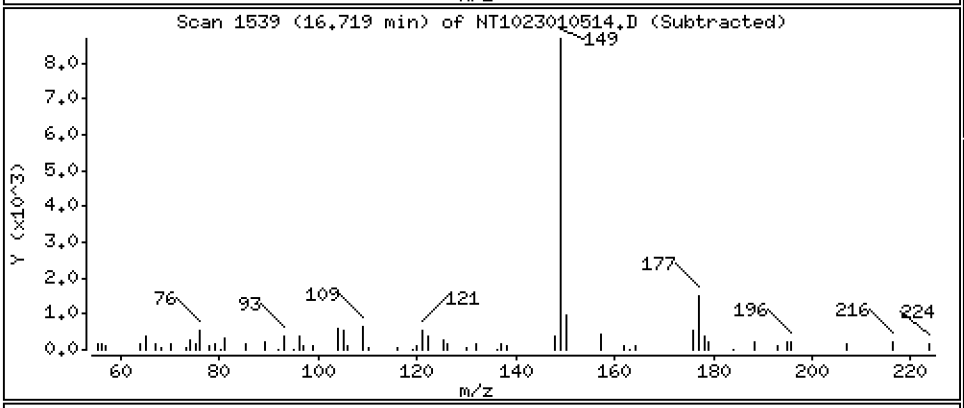
Column diameter: 0.25

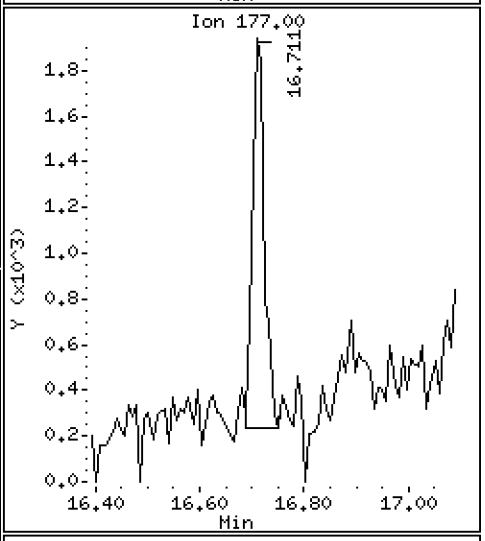
50 Diethylphthalate

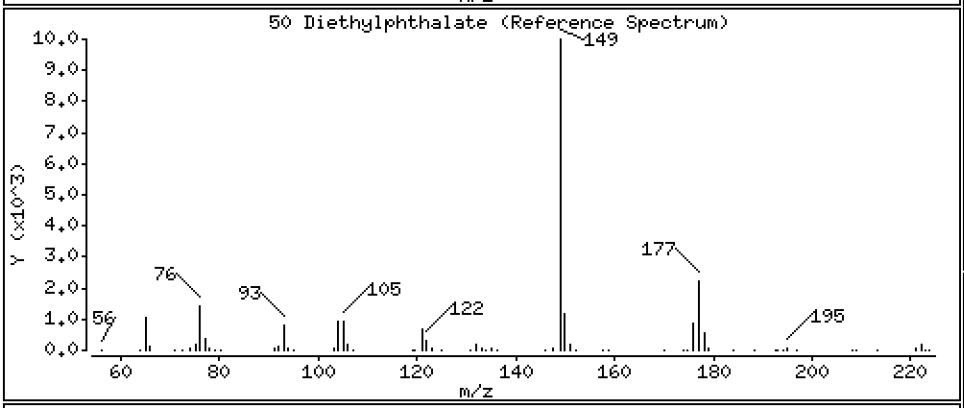
Concentration: 0.3717 ug/mL

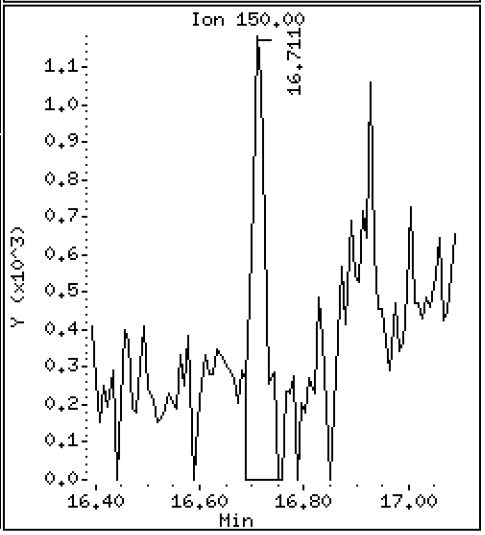


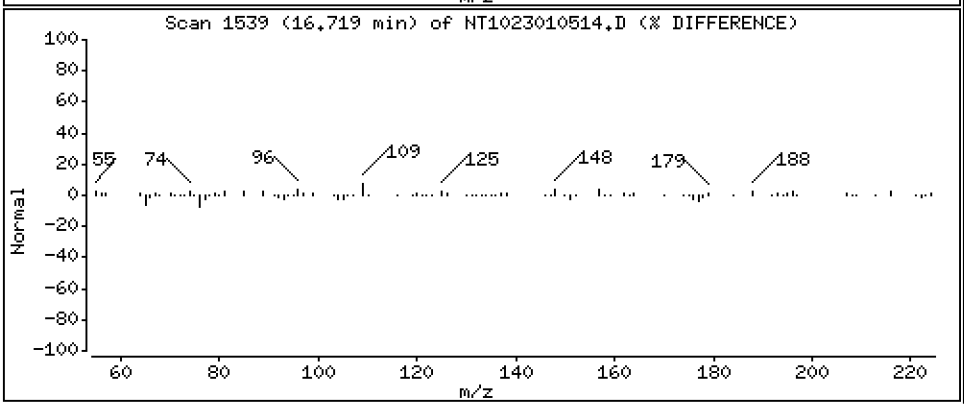












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

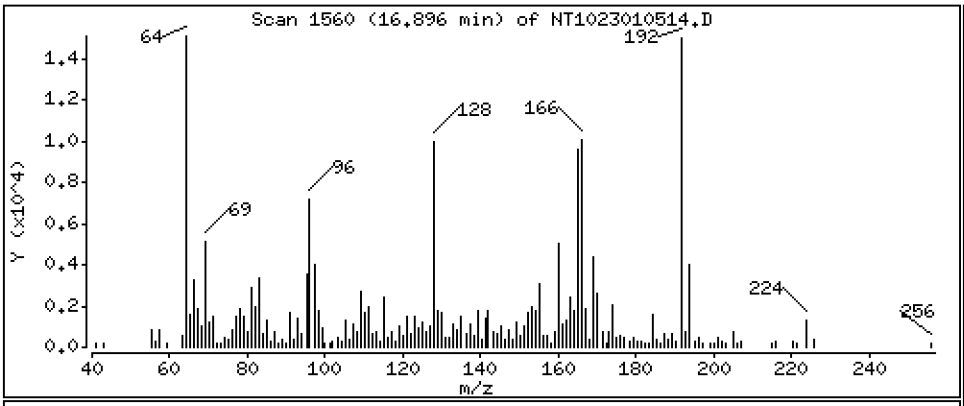
Operator: VTS

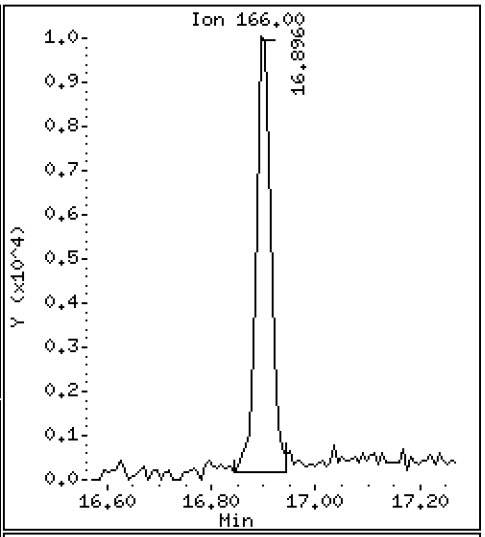
Column phase: ZB-5msi

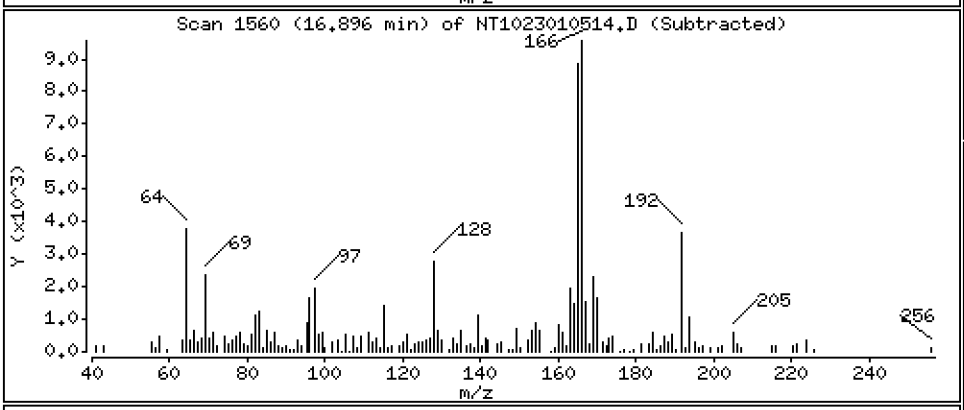
Column diameter: 0.25

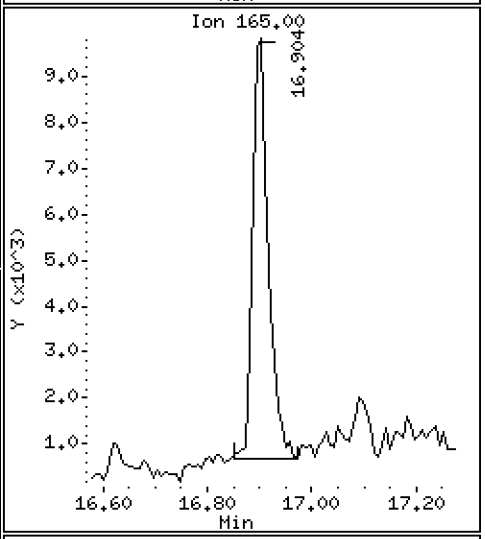
49 Fluorene

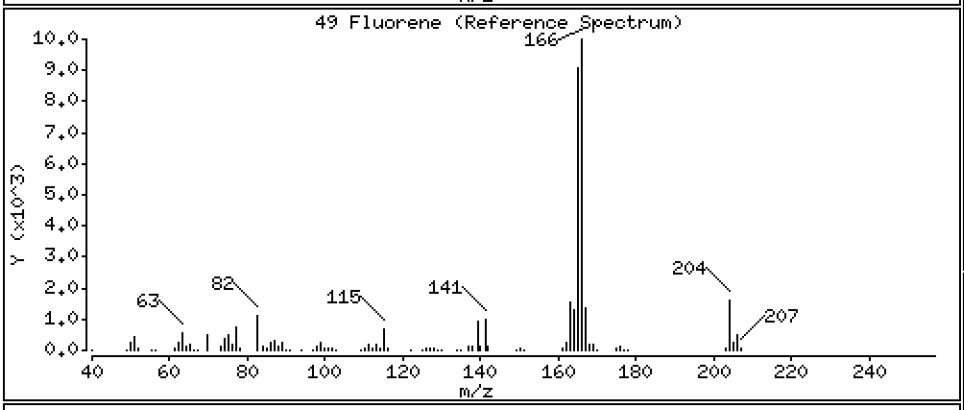
Concentration: 0.2963 ug/mL

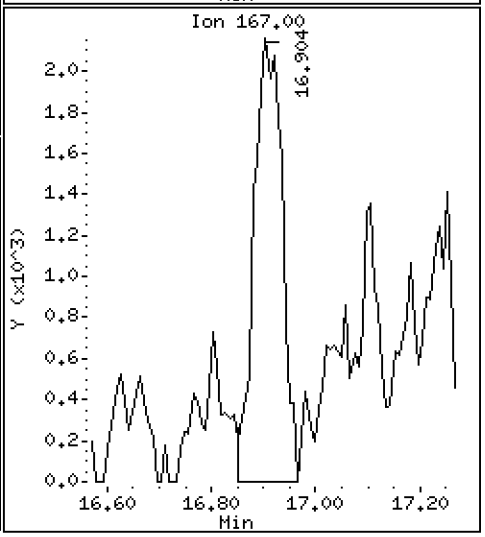


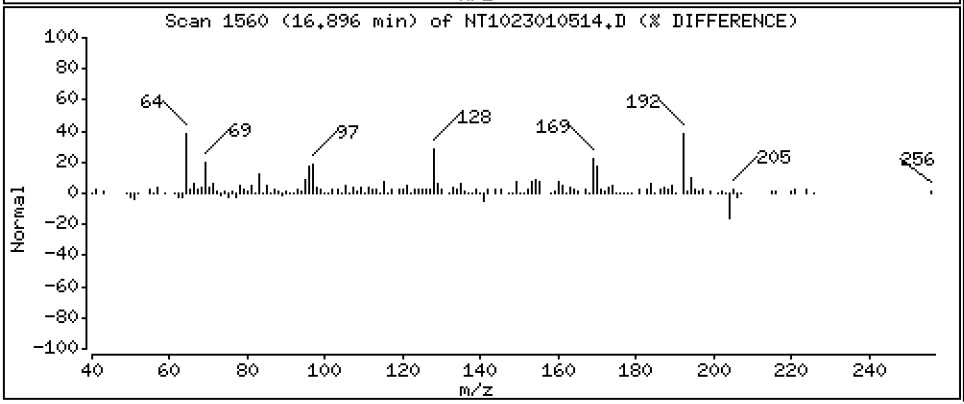












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

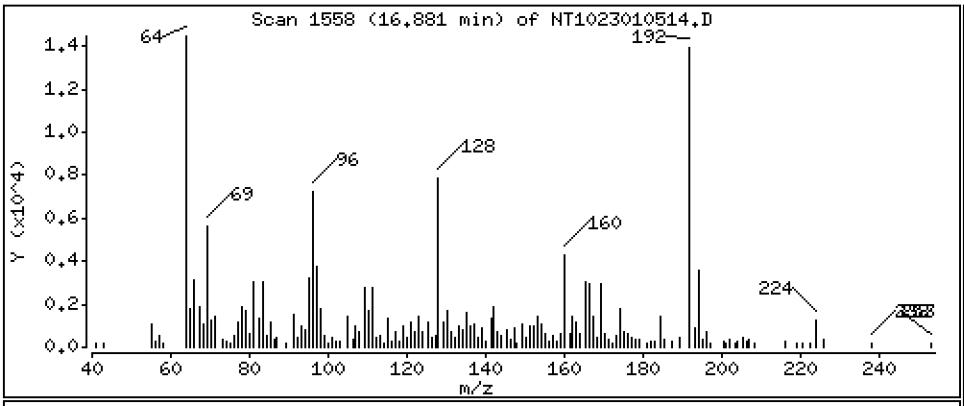
Operator: VTS

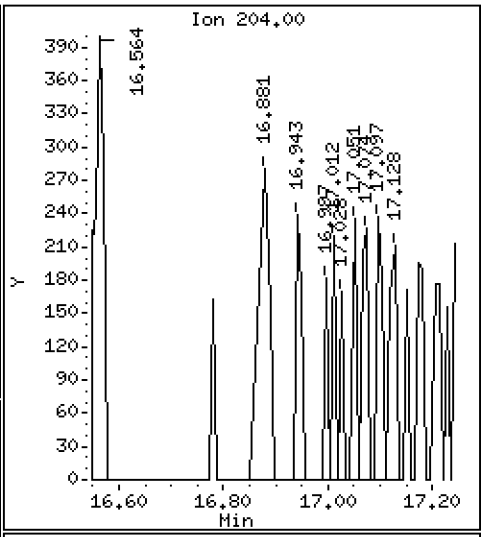
Column phase: ZB-5msi

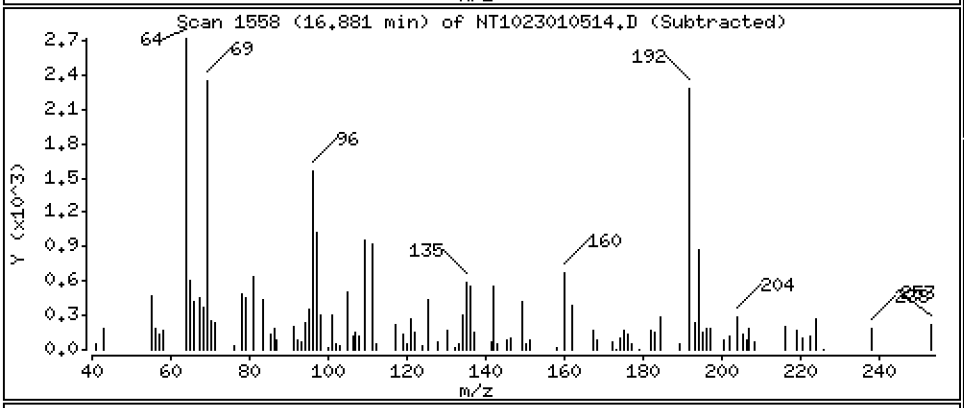
Column diameter: 0.25

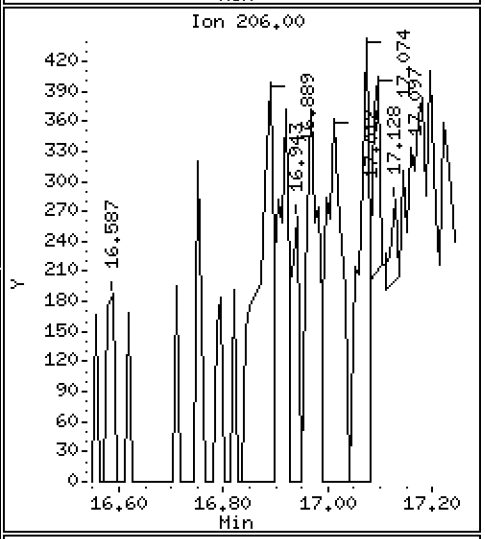
51 4-Chlorophenyl-phenylether

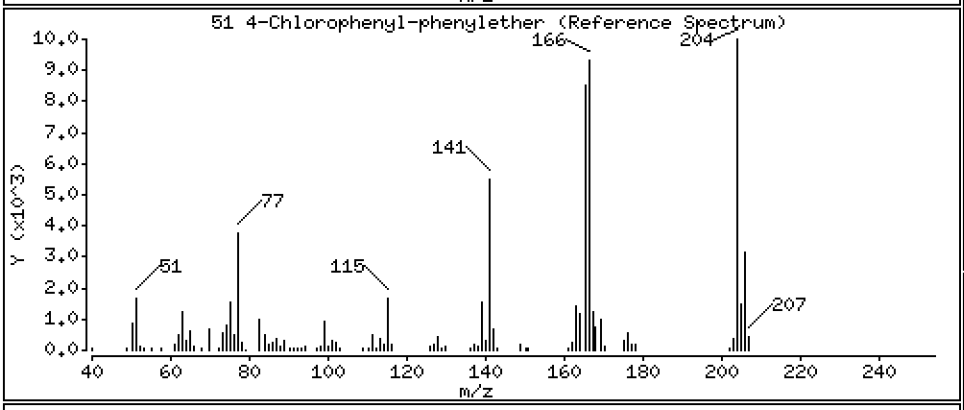
Concentration: 0.01909 ug/mL

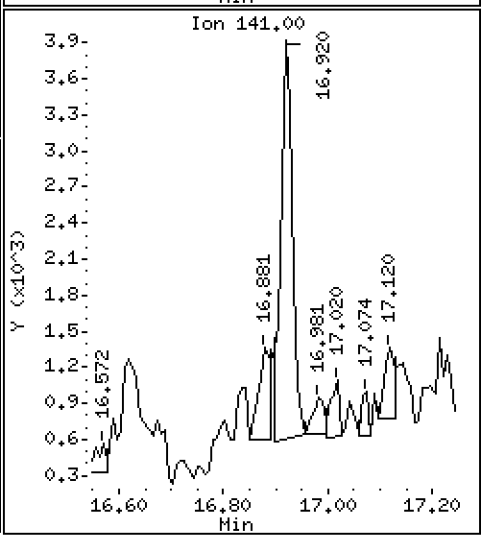


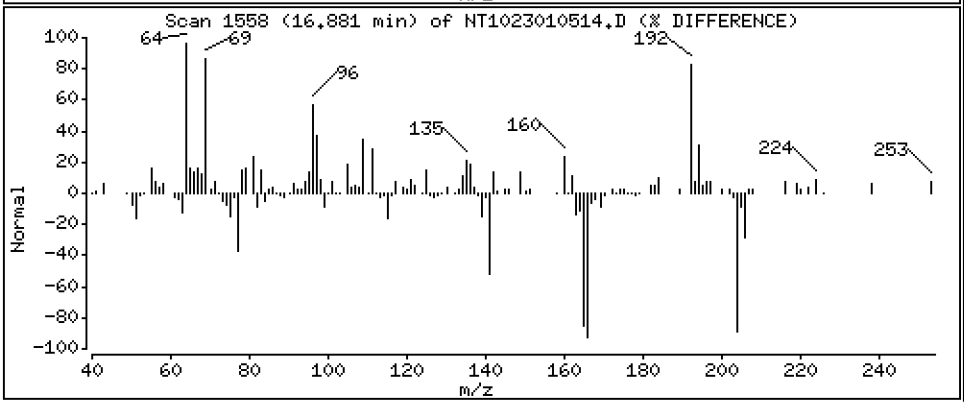












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

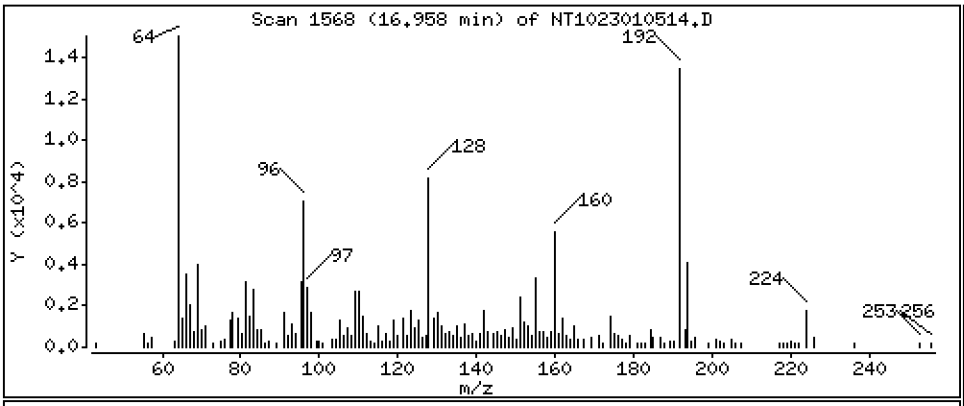
Operator: VTS

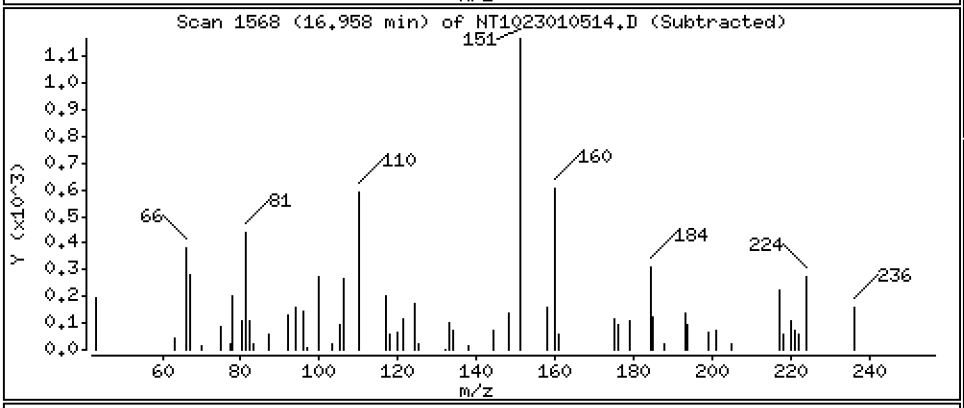
Column phase: ZB-5msi

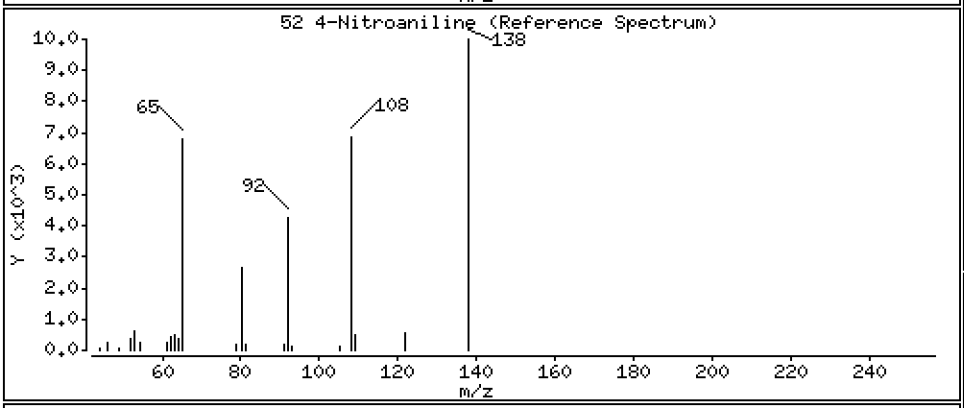
Column diameter: 0.25

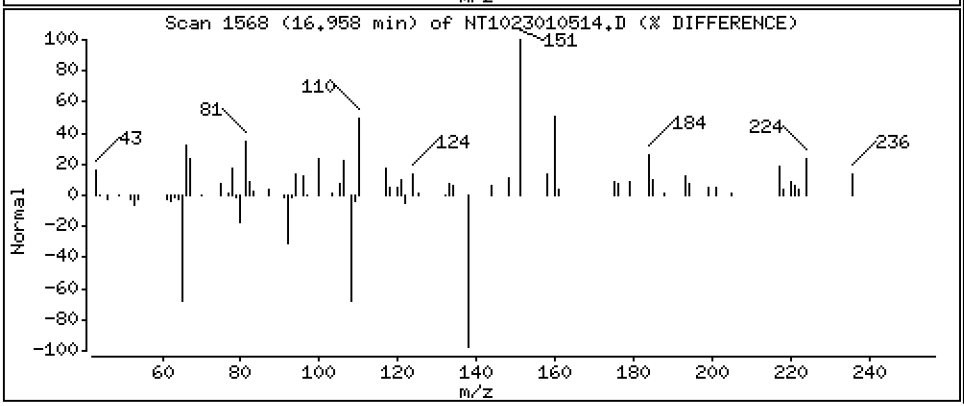
52 4-Nitroaniline

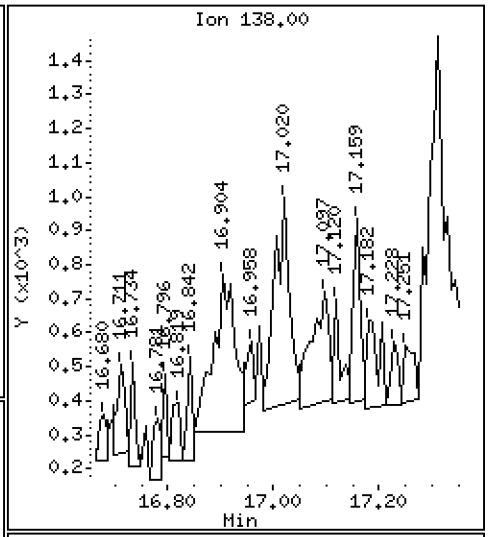
Concentration: 0.01231 ug/mL

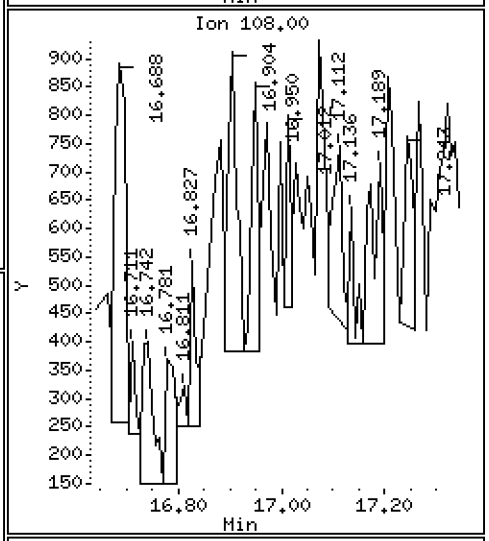


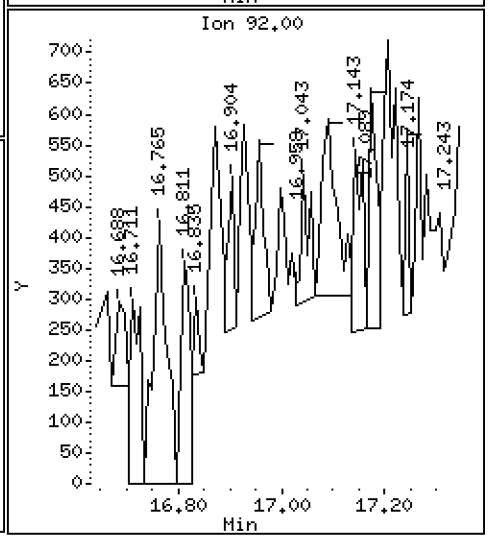












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

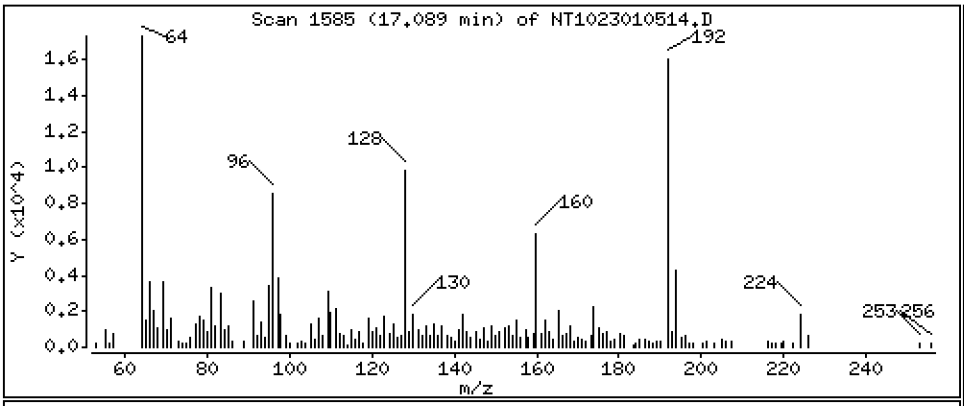
Operator: VTS

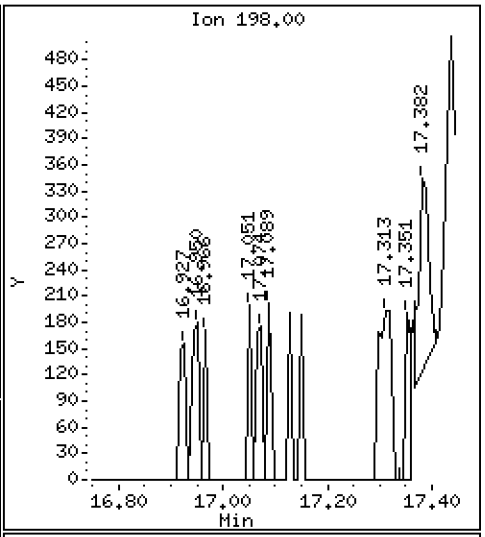
Column phase: ZB-5msi

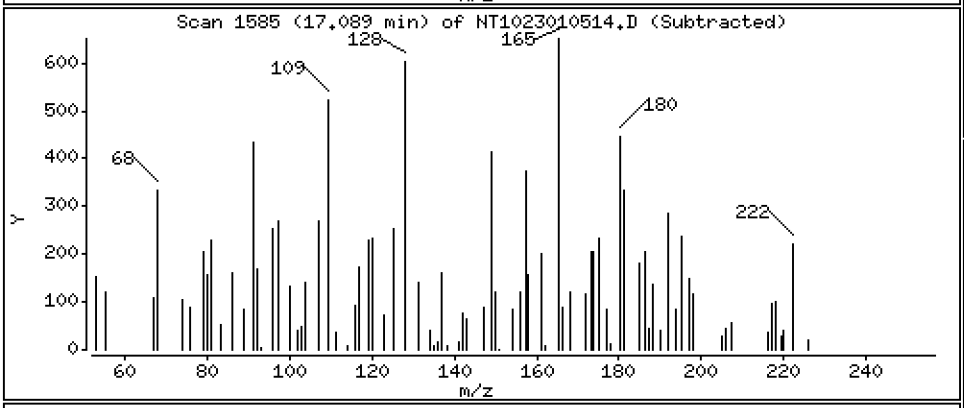
Column diameter: 0.25

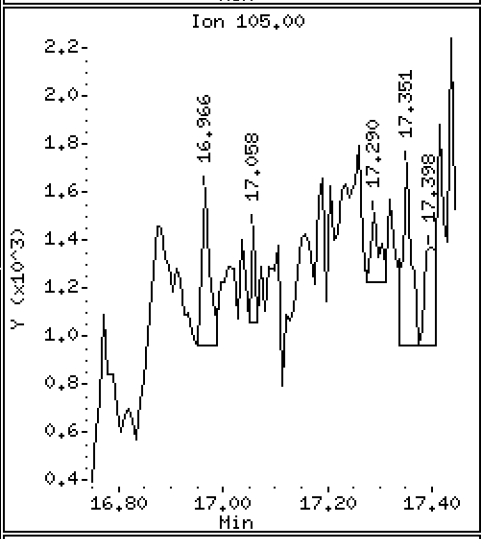
53 4,6-Dinitro-2-methylphenol

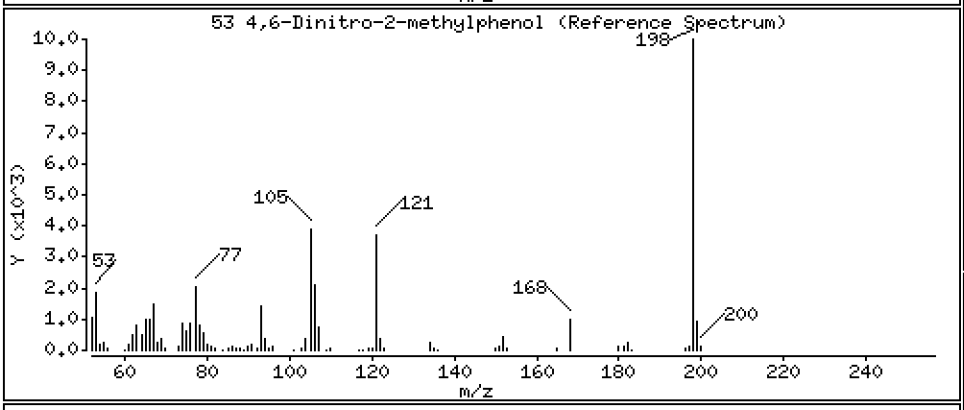
Concentration: 0.01161 ug/mL

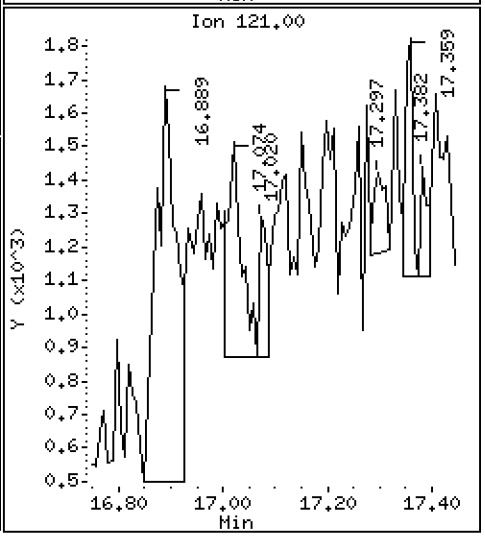


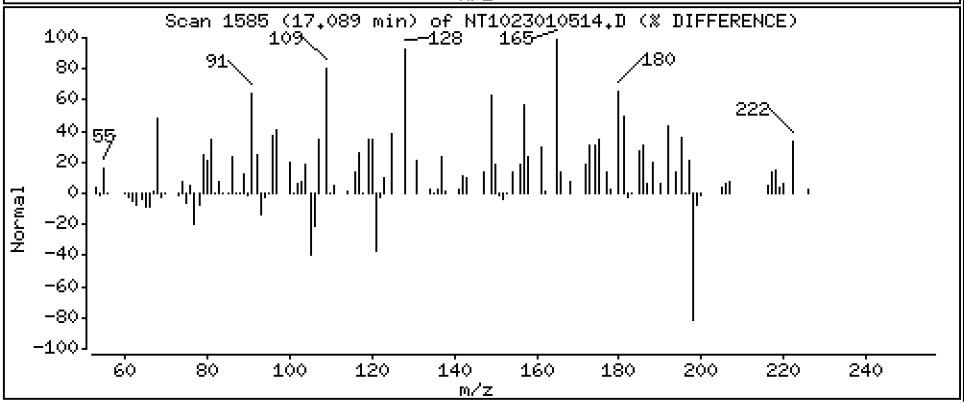












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

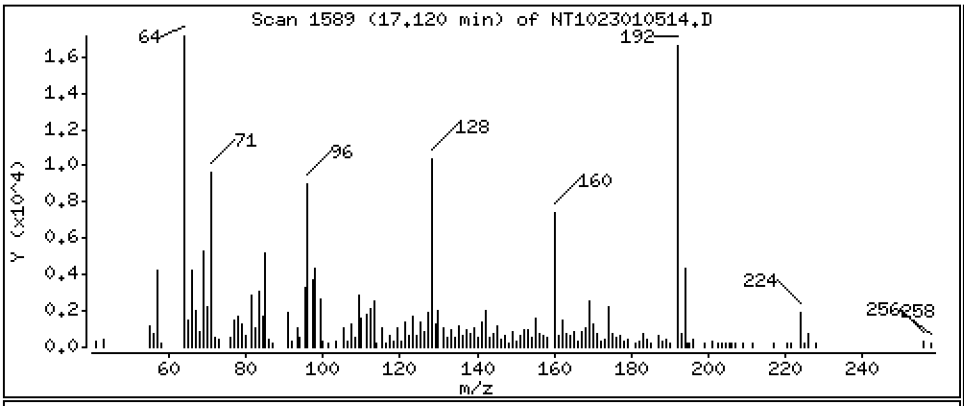
Operator: VTS

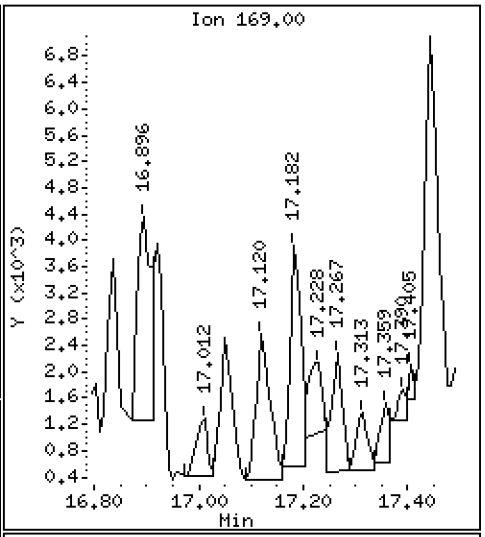
Column phase: ZB-5msi

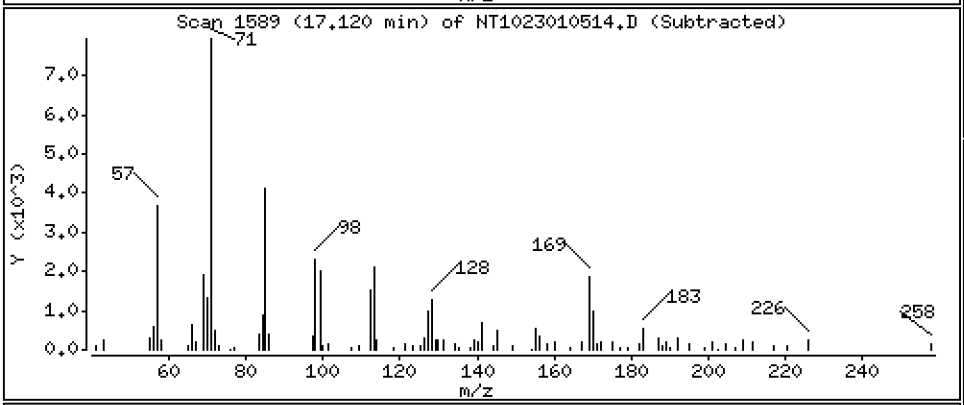
Column diameter: 0.25

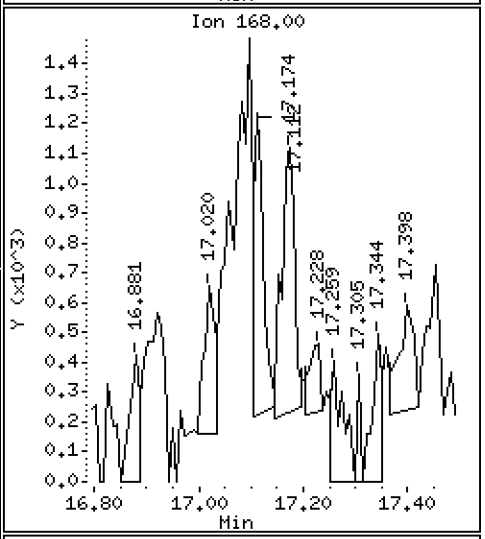
54 N-Nitrosodiphenylamine

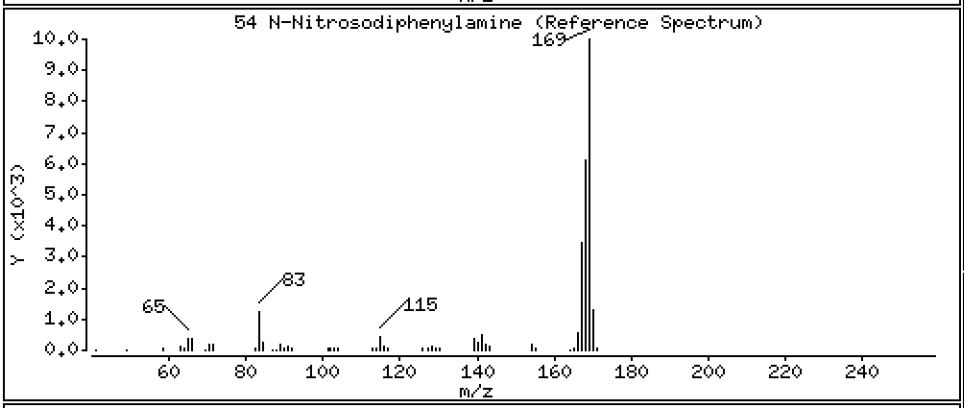
Concentration: 0.1166 ug/mL

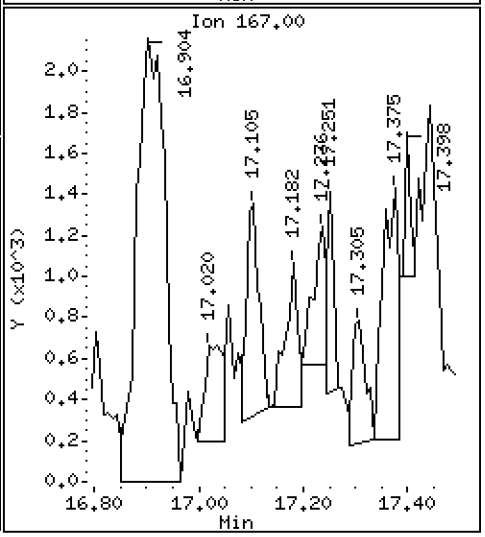


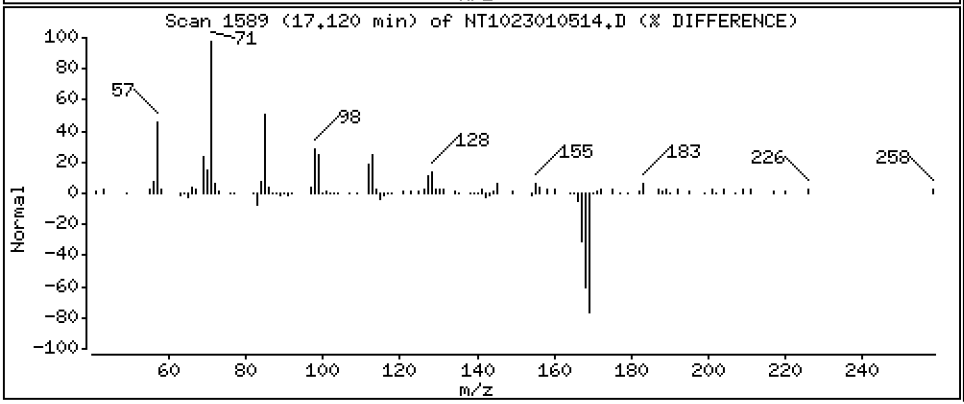












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

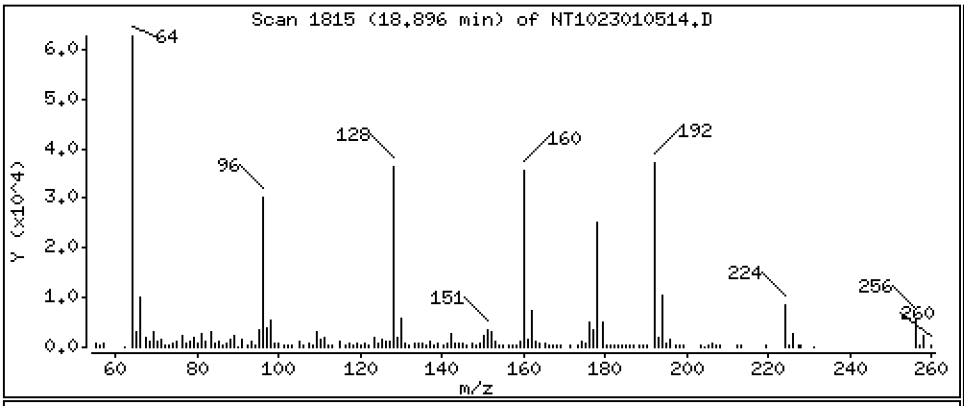
Operator: VTS

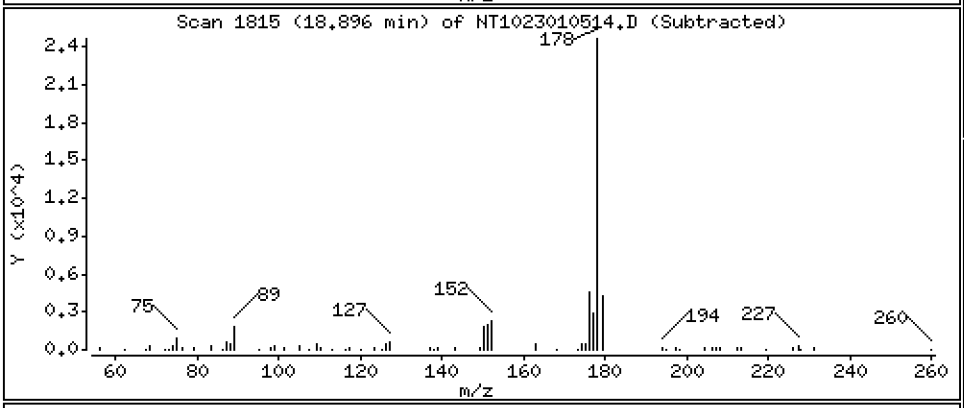
Column phase: ZB-5msi

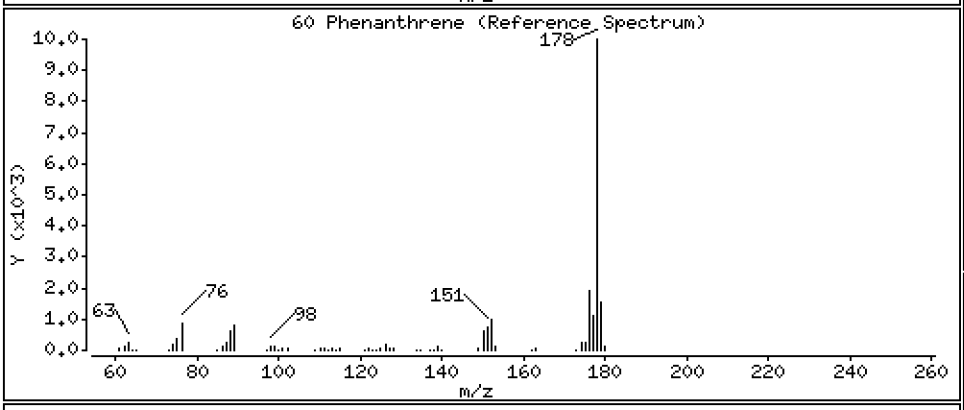
Column diameter: 0.25

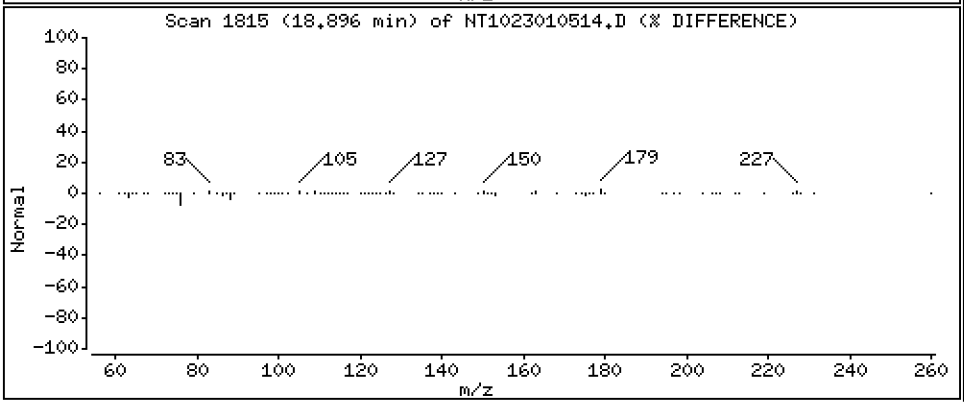
60 Phenanthrene

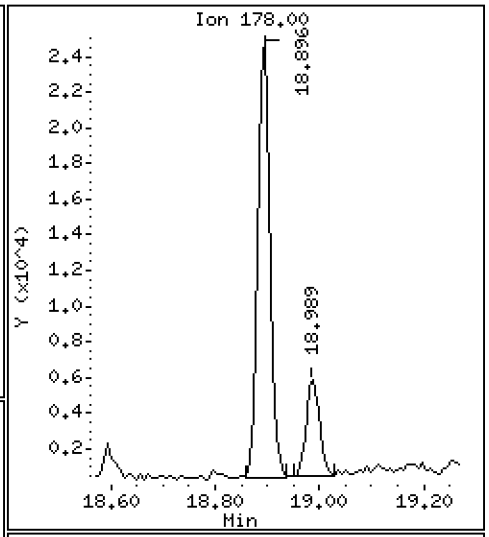
Concentration: 0.9025 ug/mL

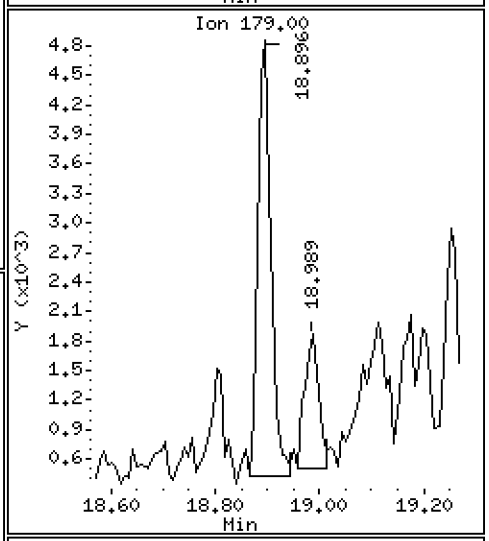


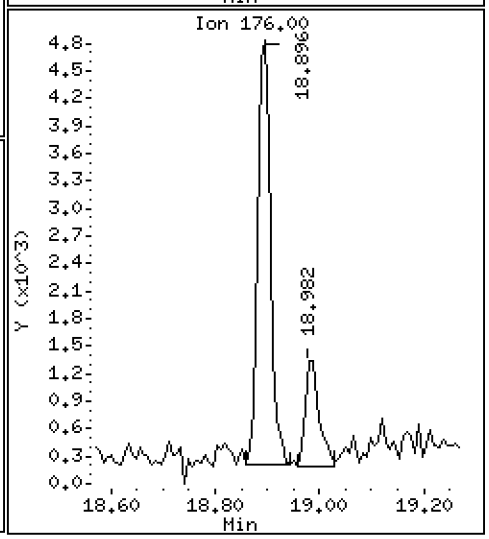












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

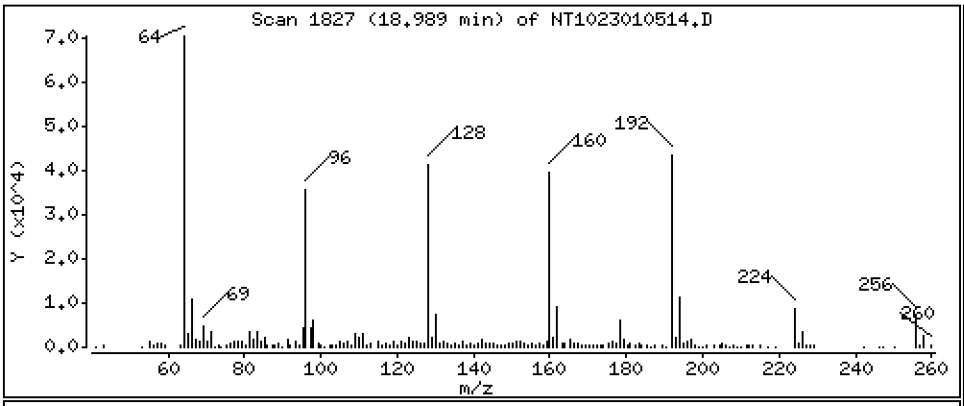
Operator: VTS

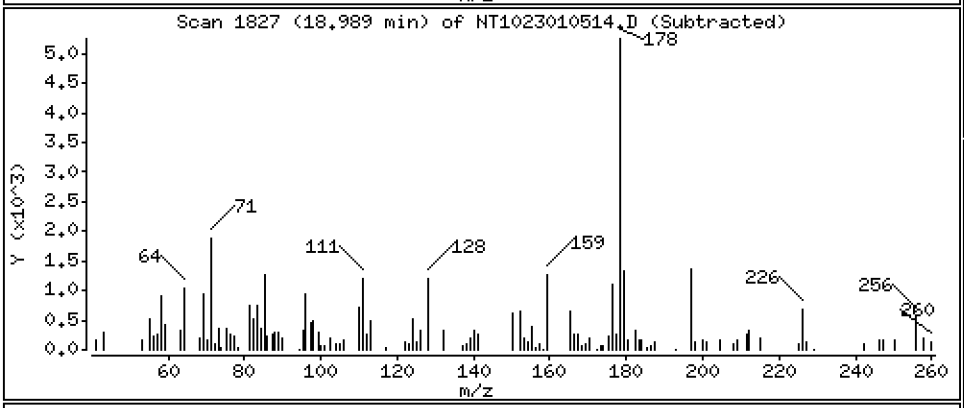
Column phase: ZB-5msi

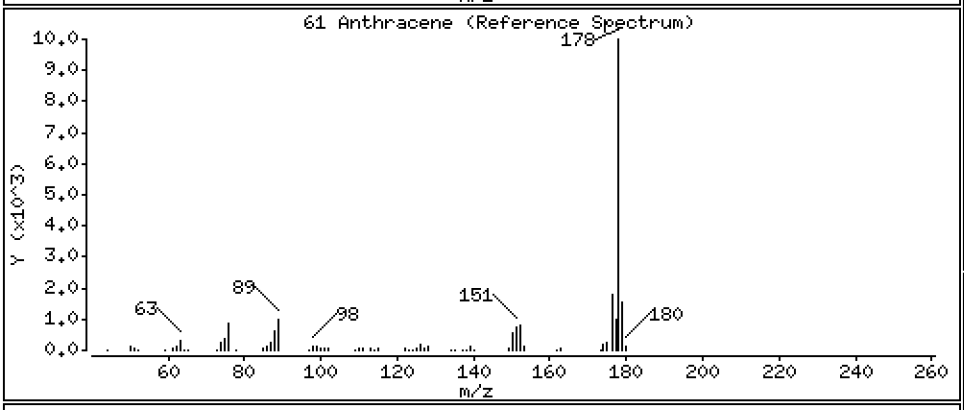
Column diameter: 0.25

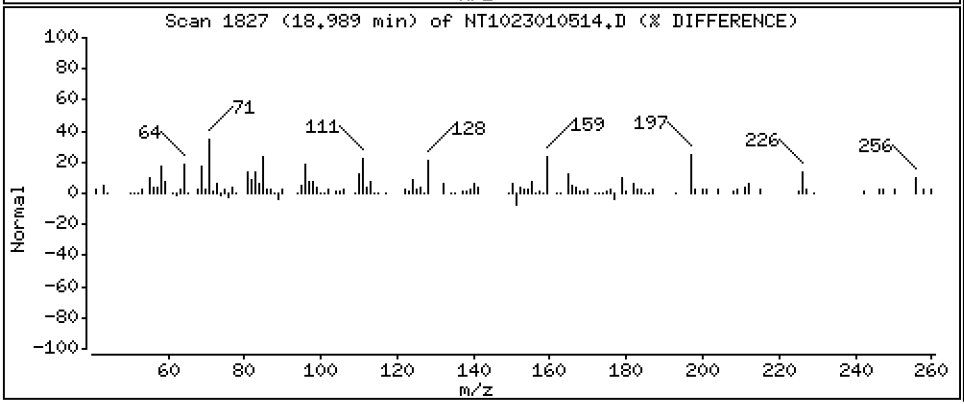
61 Anthracene

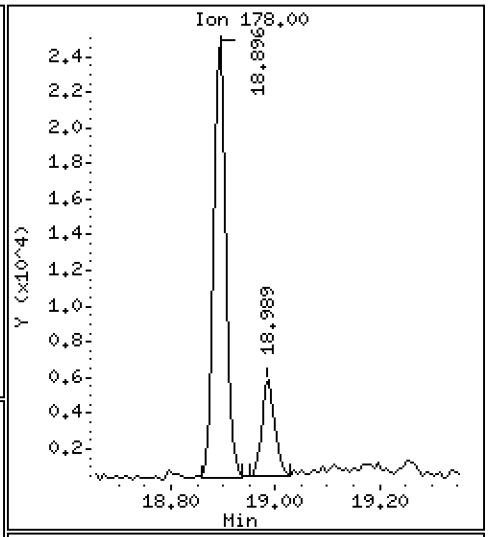
Concentration: 0.2026 ug/mL

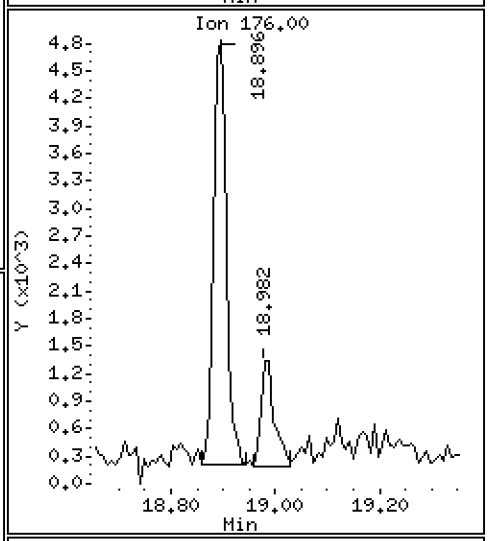


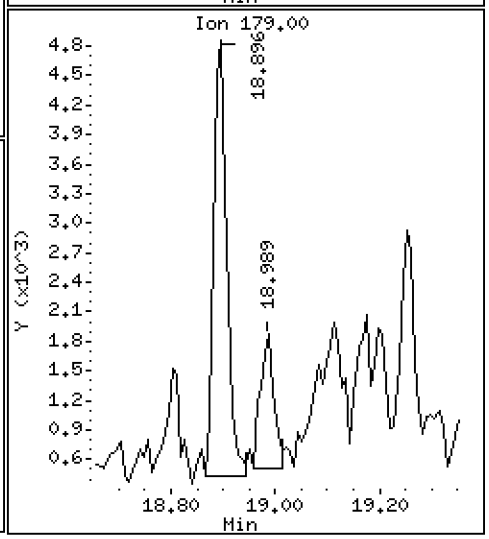












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

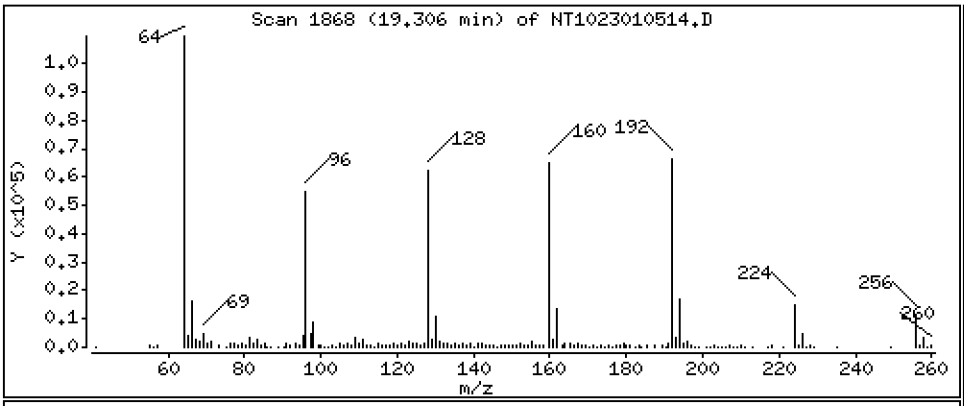
Operator: VTS

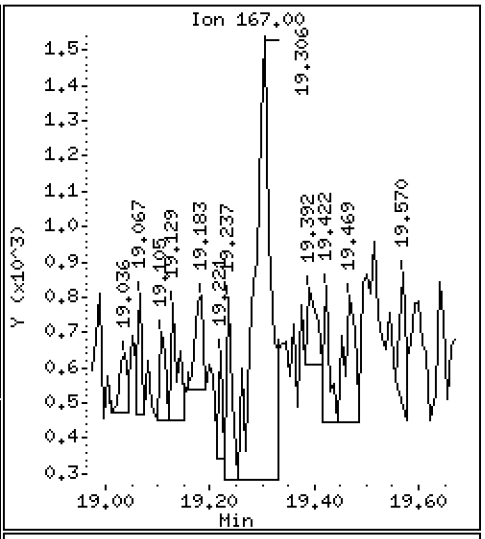
Column phase: ZB-5msi

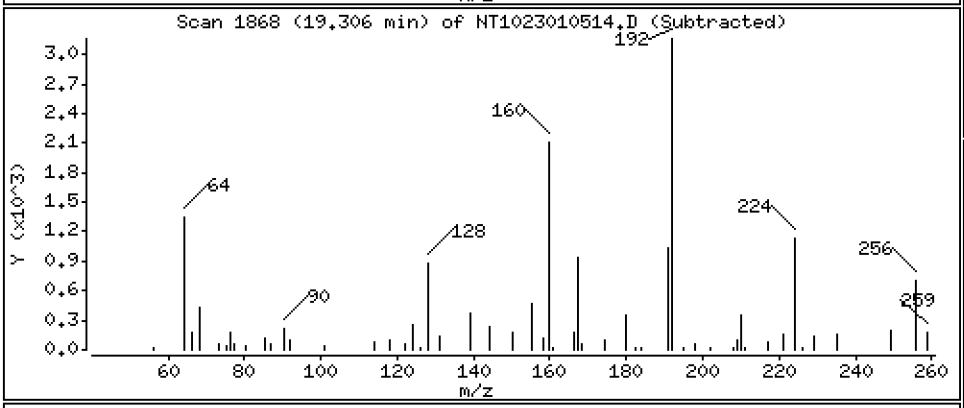
Column diameter: 0.25

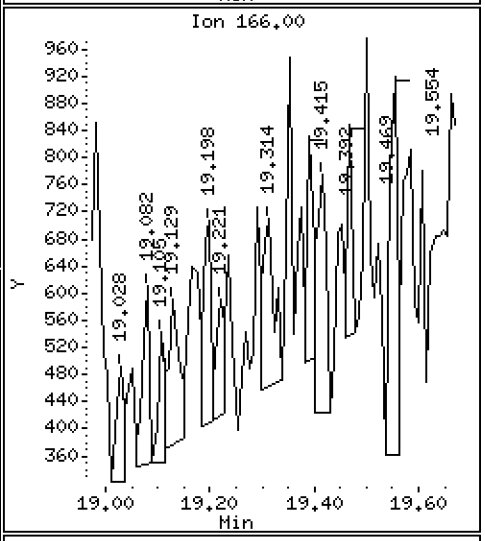
62 Carbazole

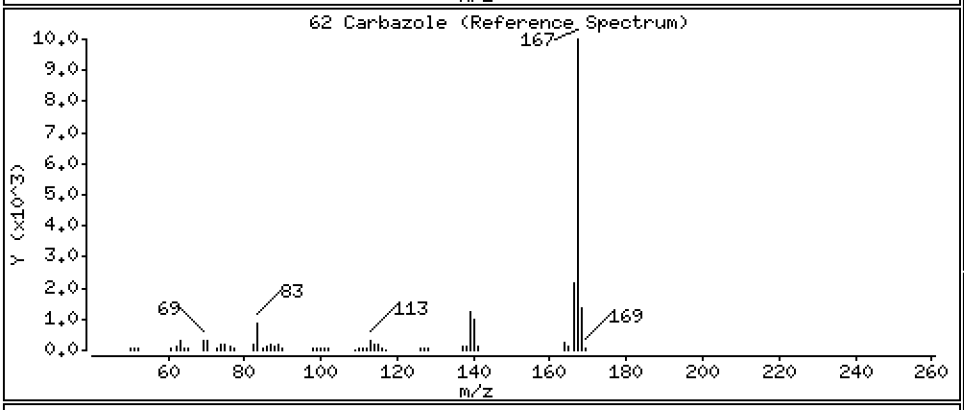
Concentration: 0.05410 ug/mL

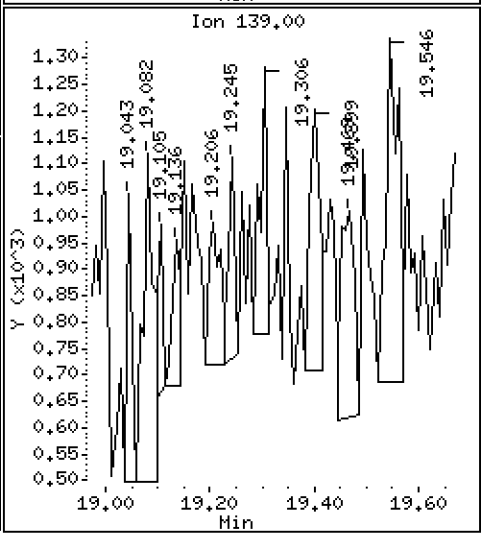


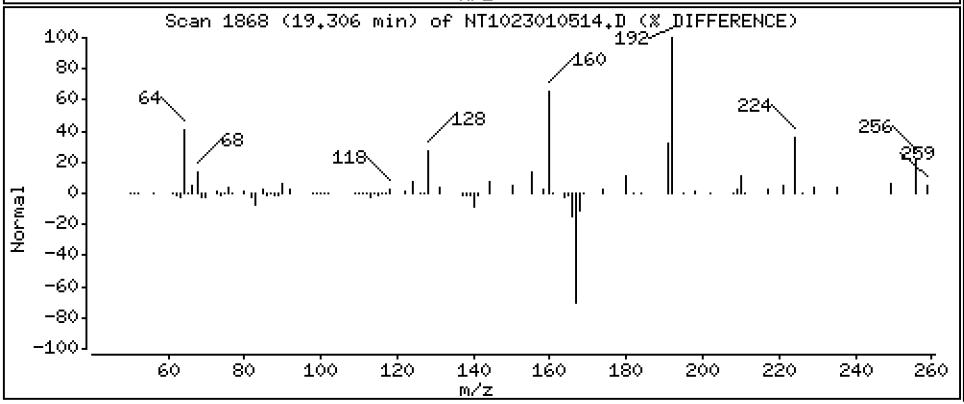












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

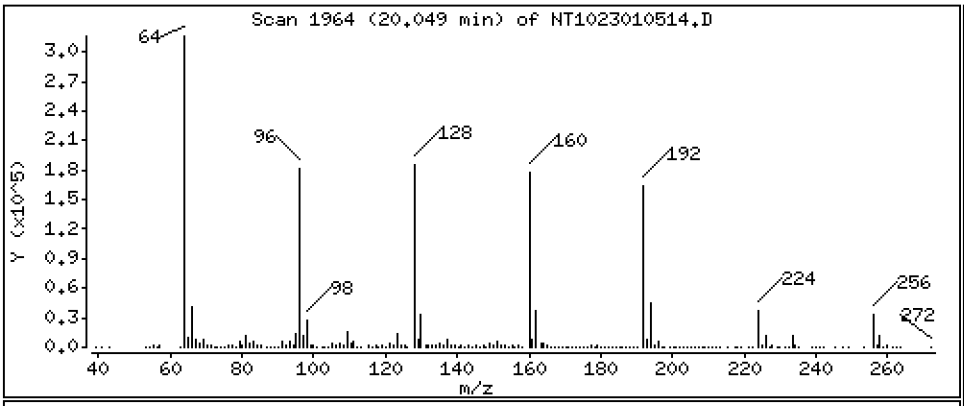
Operator: VTS

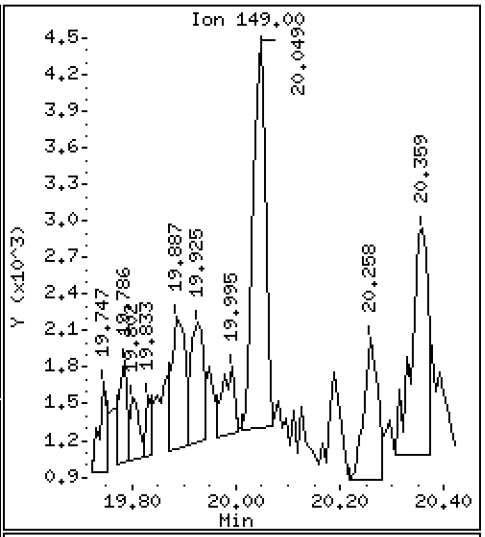
Column phase: ZB-5msi

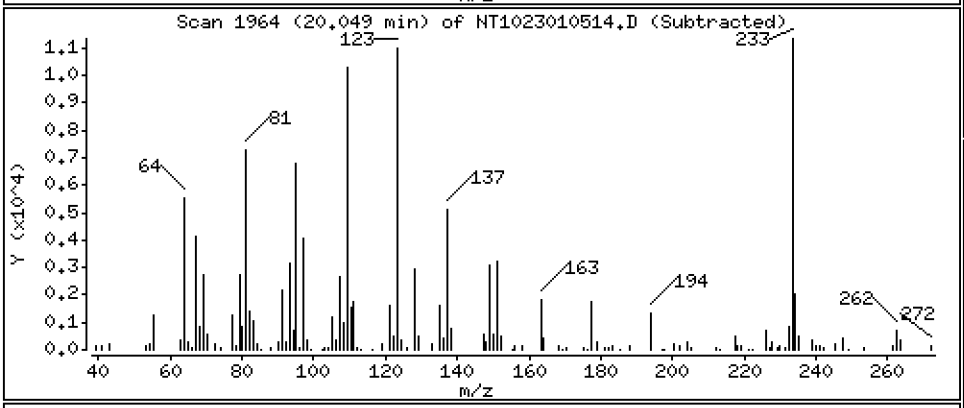
Column diameter: 0.25

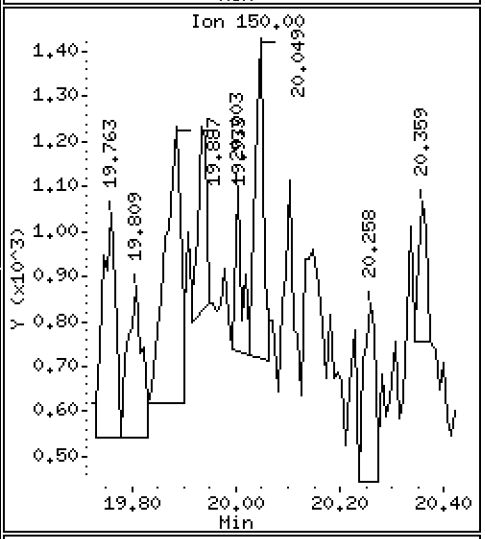
63 Di-n-butylphthalate

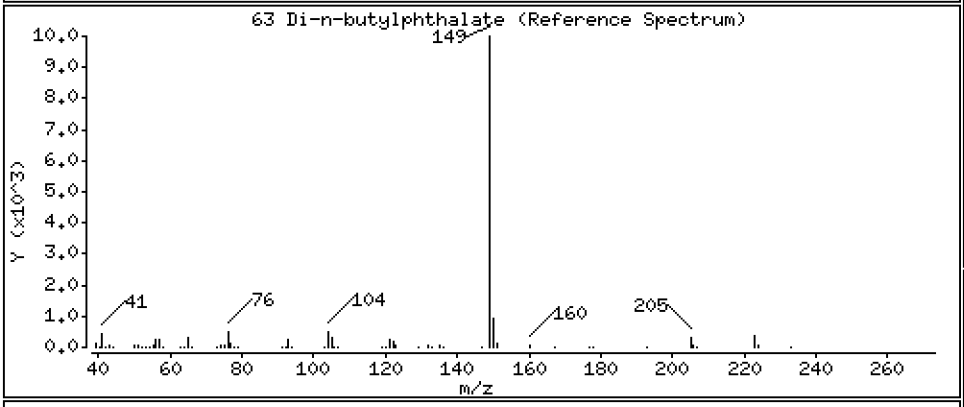
Concentration: 0.08750 ug/mL

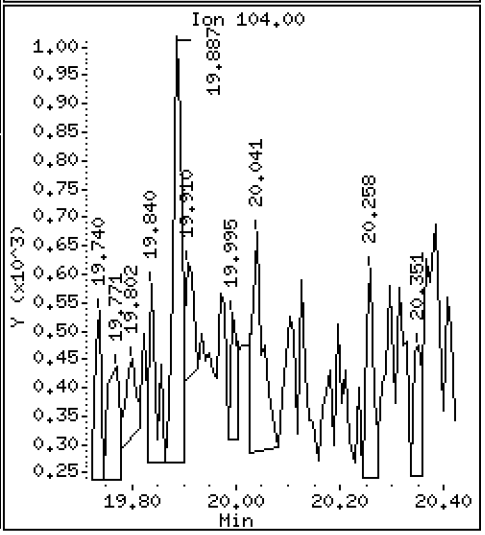


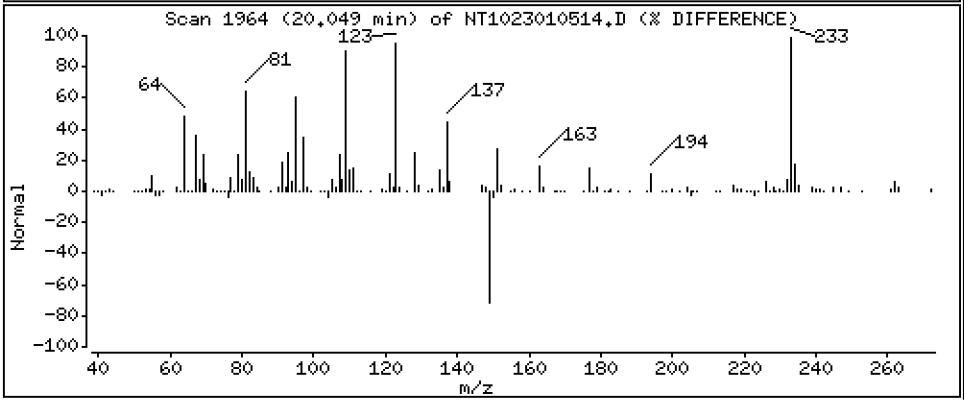












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

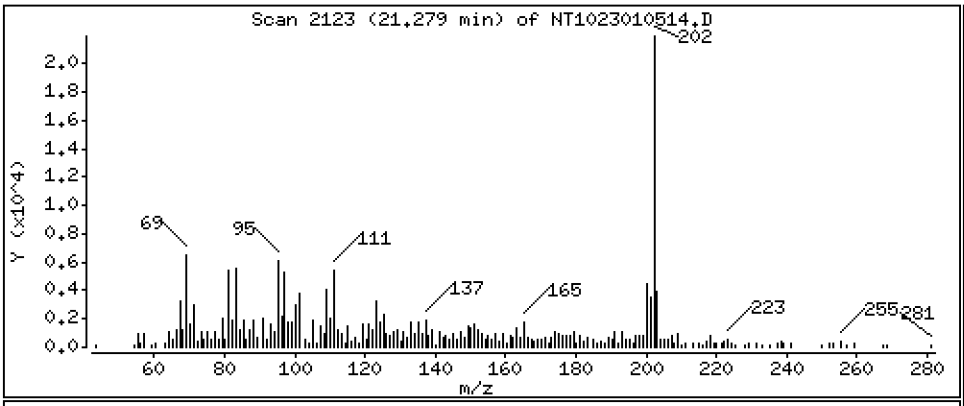
Operator: VTS

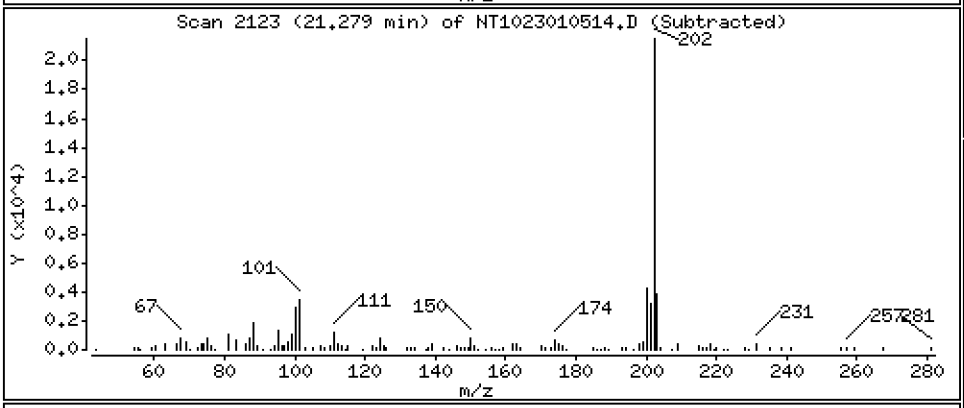
Column phase: ZB-5msi

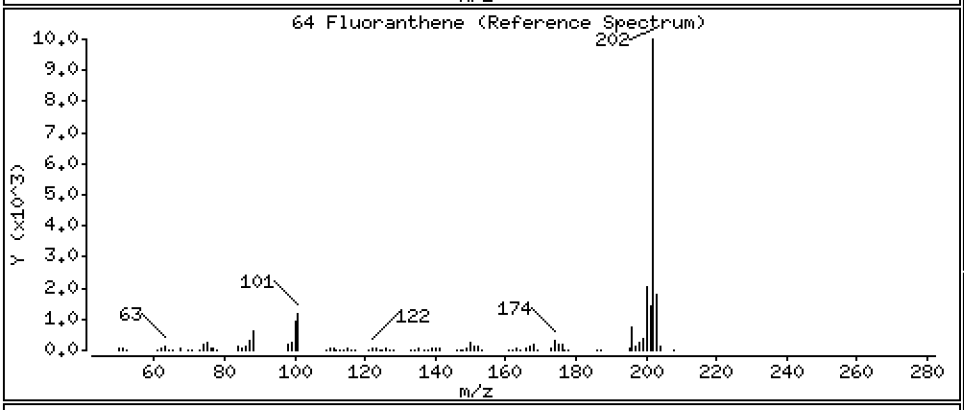
Column diameter: 0.25

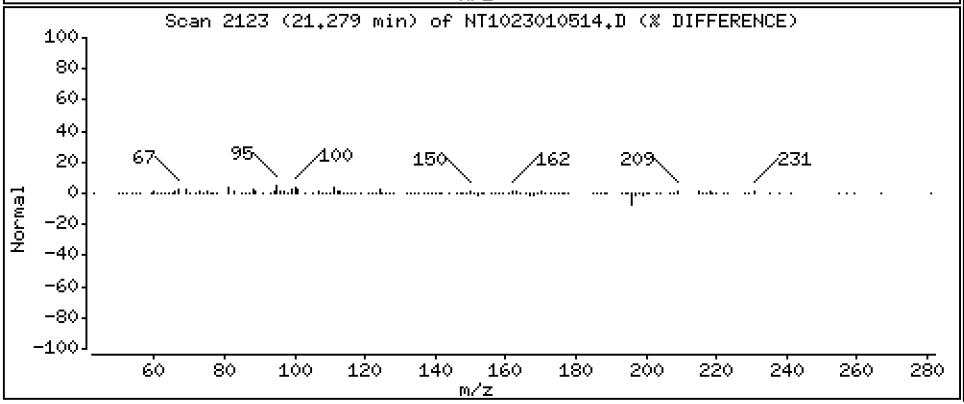
64 Fluoranthene

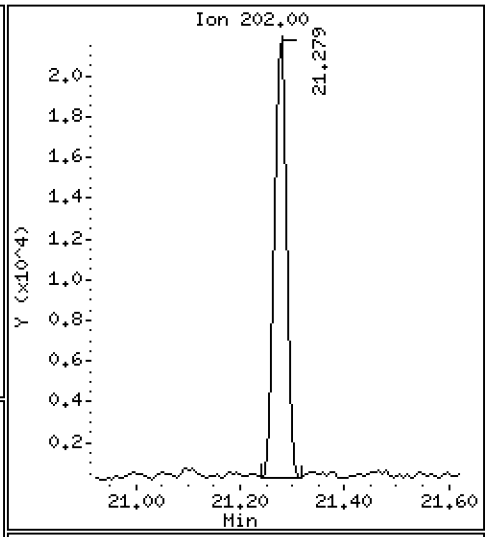
Concentration: 1.014 ug/mL

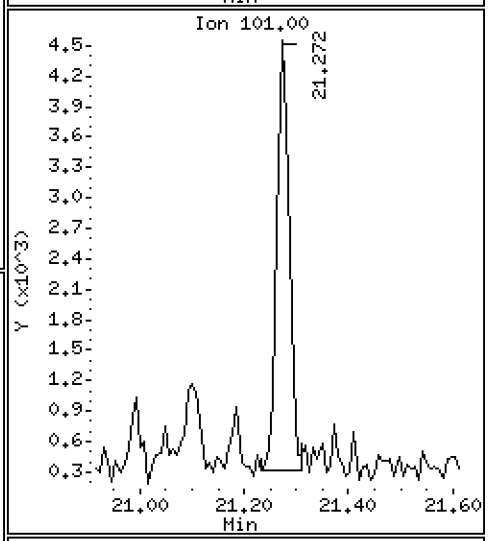


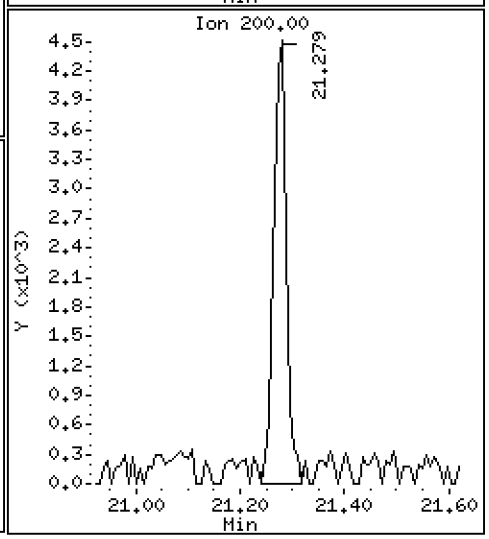












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

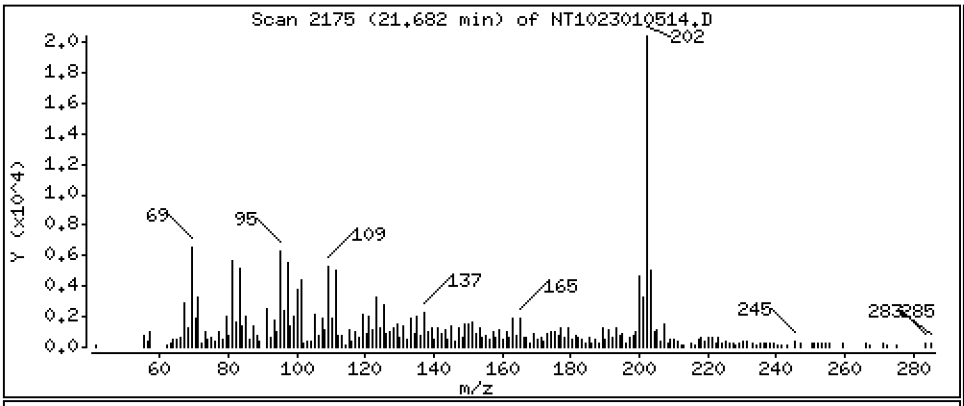
Operator: VTS

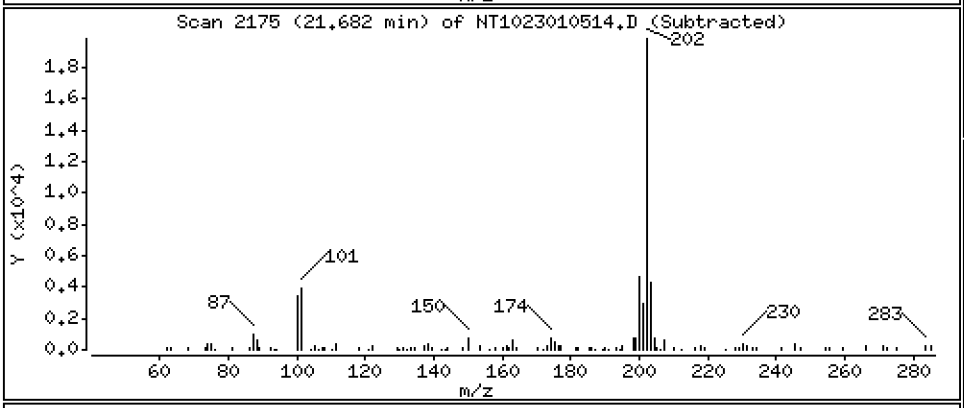
Column phase: ZB-5msi

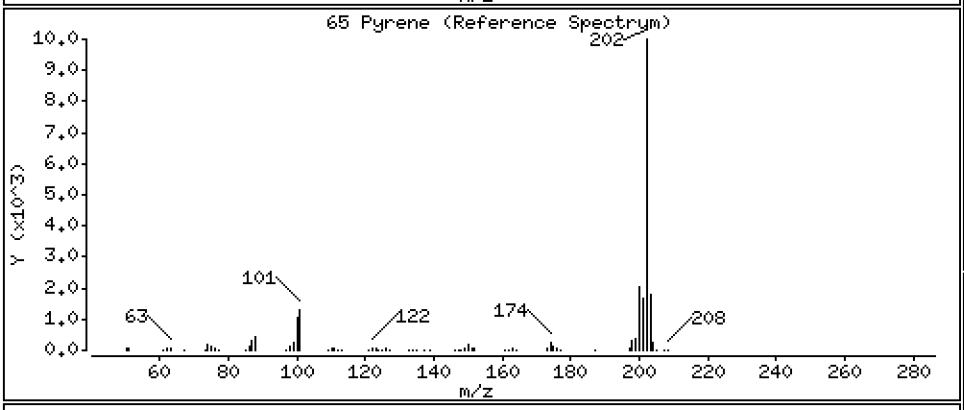
Column diameter: 0.25

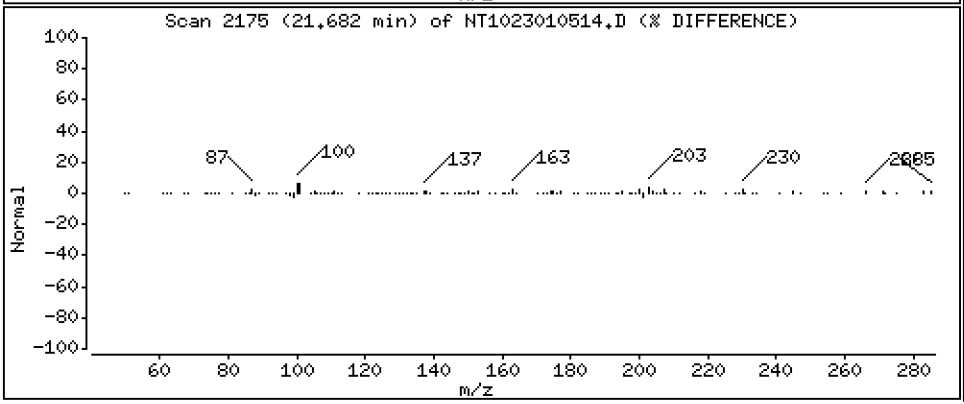
65 Pyrene

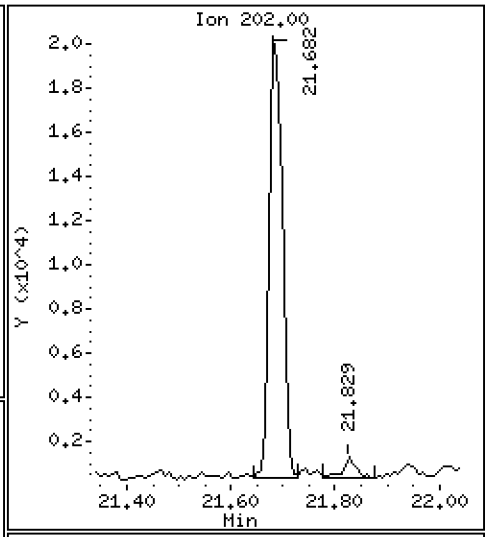
Concentration: 0.9965 ug/mL

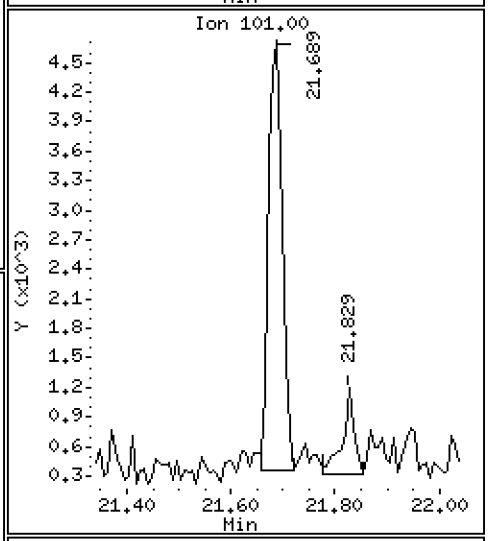


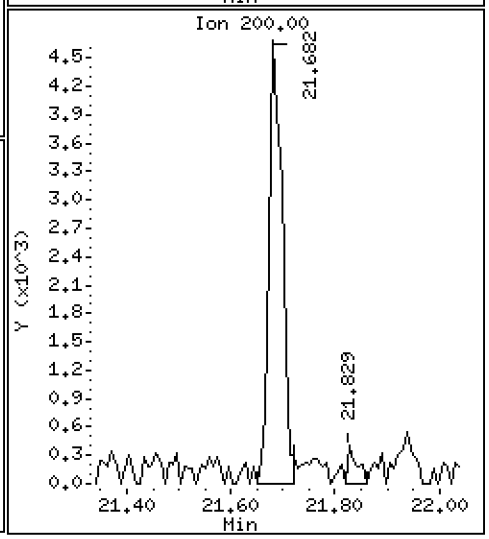












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

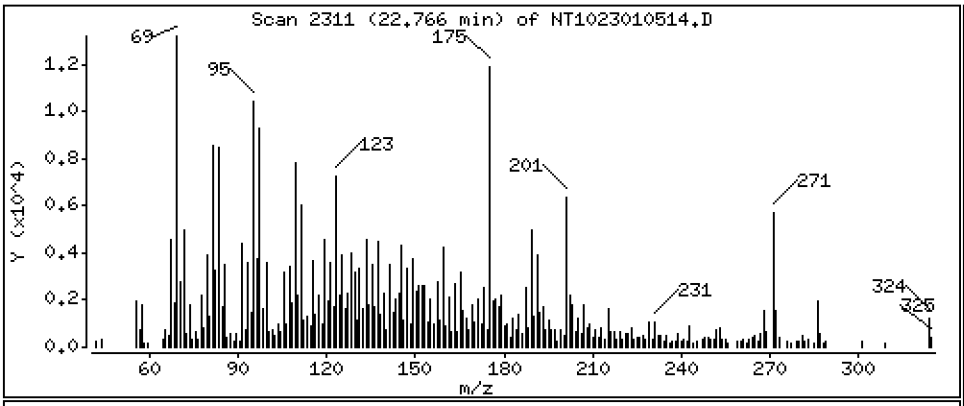
Operator: VTS

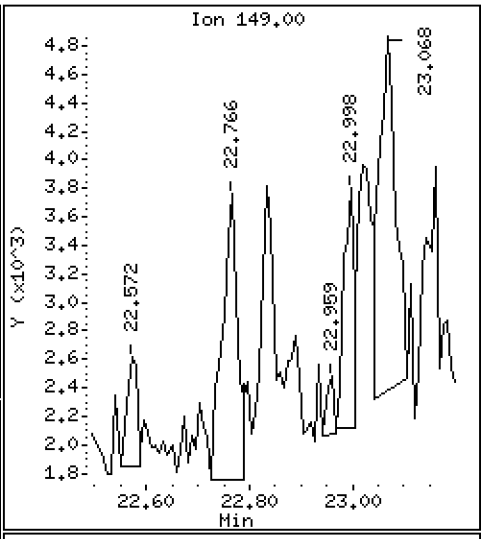
Column phase: ZB-5msi

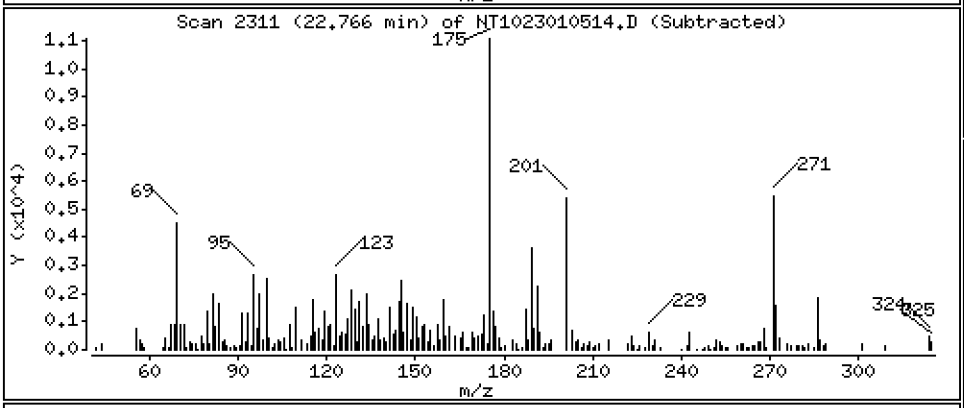
Column diameter: 0.25

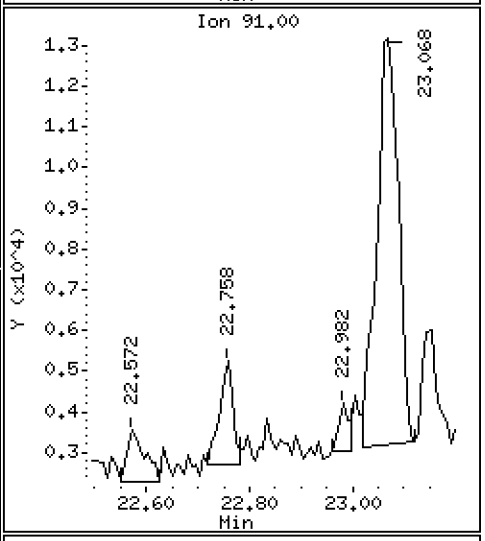
67 Butylbenzylphthalate

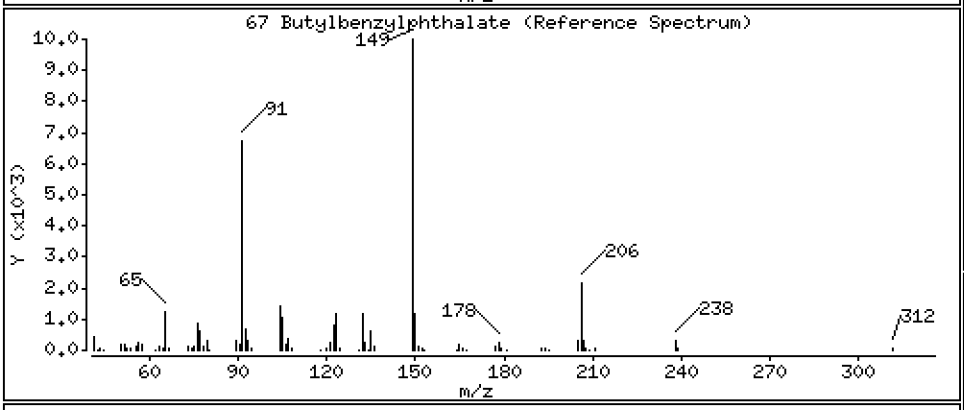
Concentration: 0.2306 ug/mL

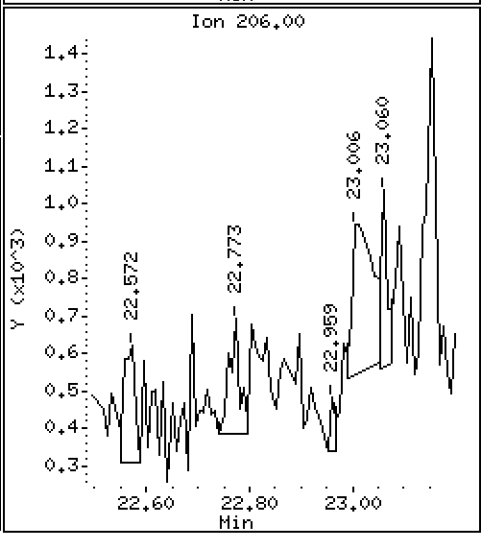


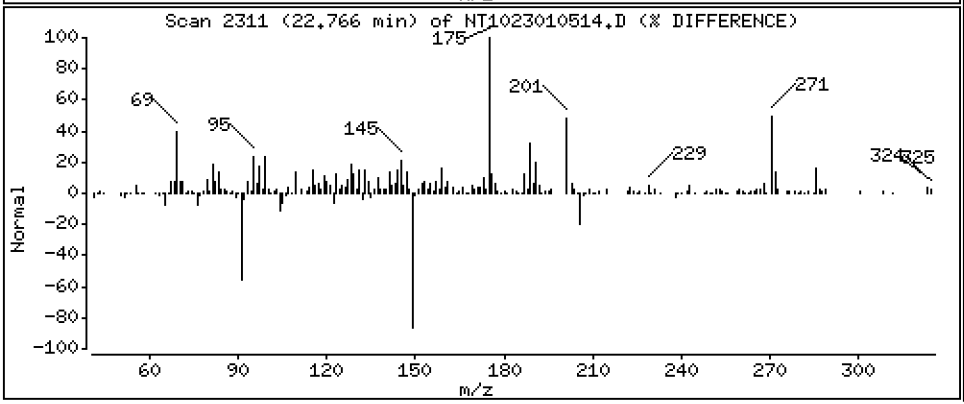












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

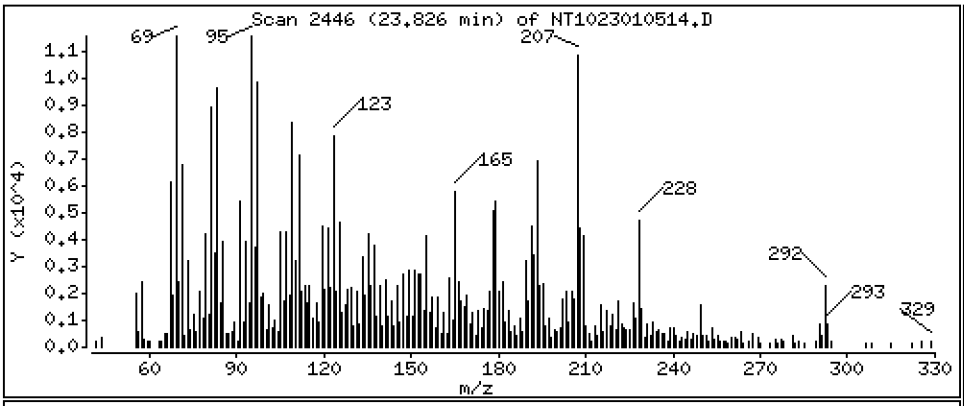
Operator: VTS

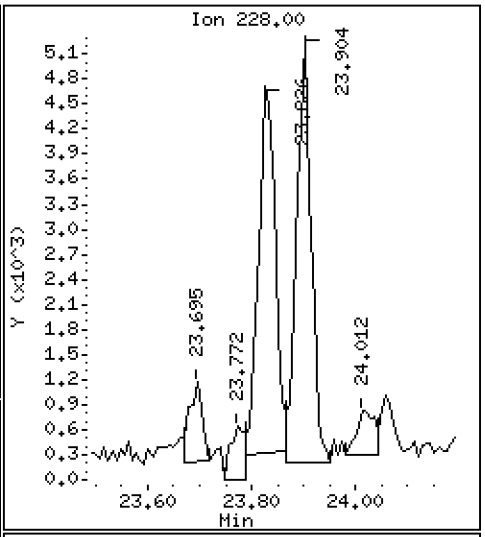
Column phase: ZB-5msi

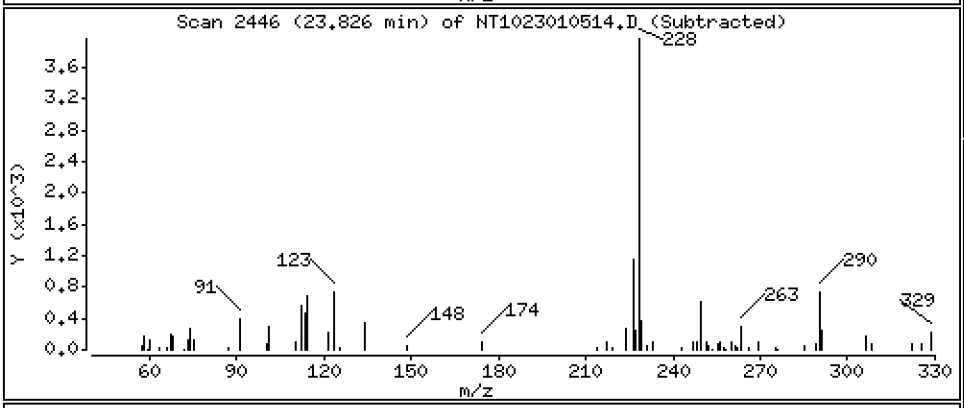
Column diameter: 0.25

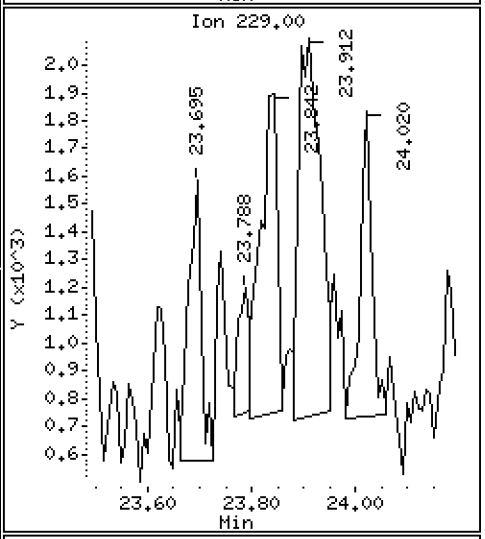
68 Benzo(a)anthracene

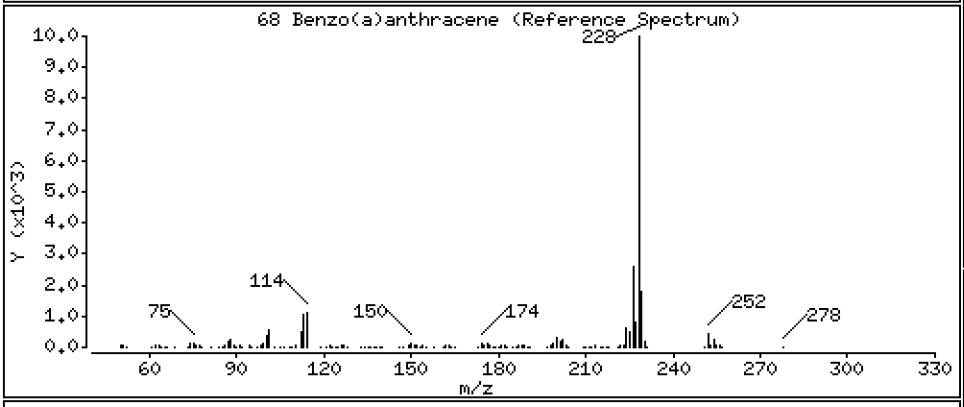
Concentration: 0.4483 ug/mL

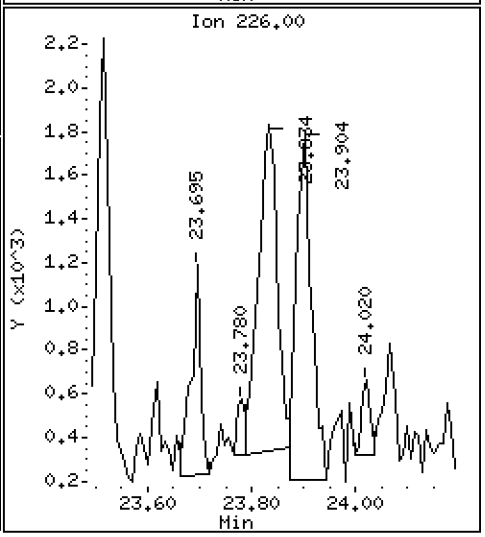


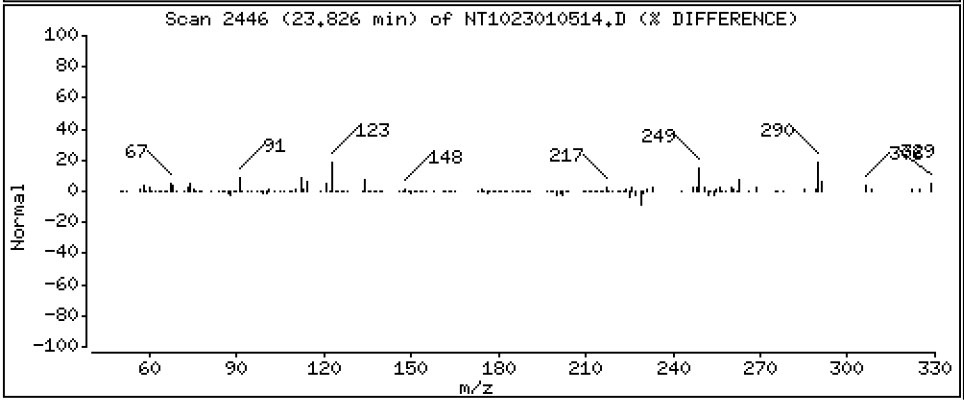












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

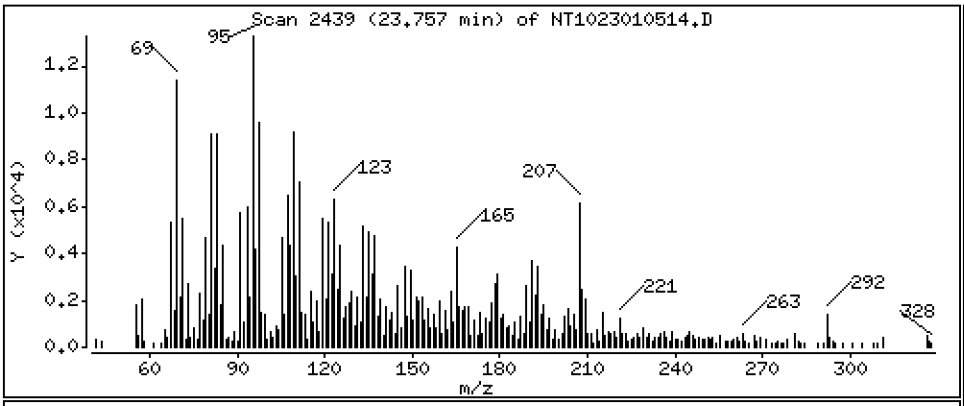
Operator: VTS

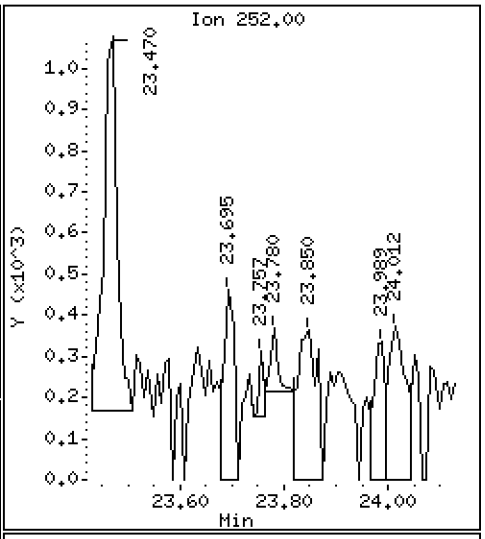
Column phase: ZB-5msi

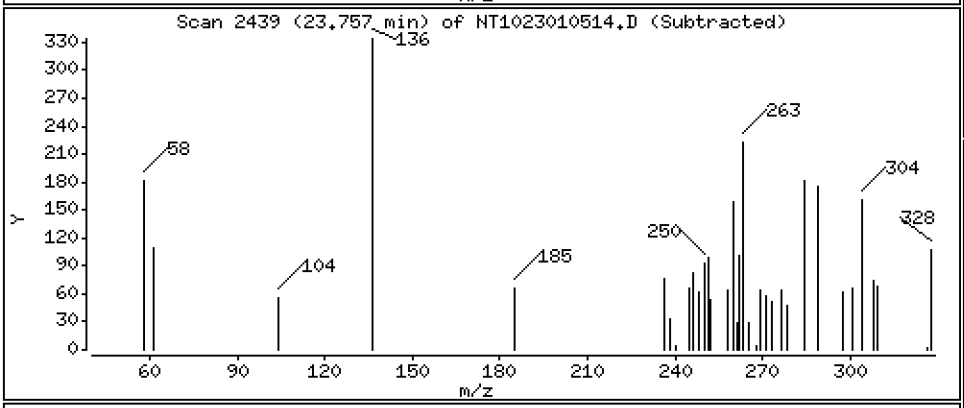
Column diameter: 0.25

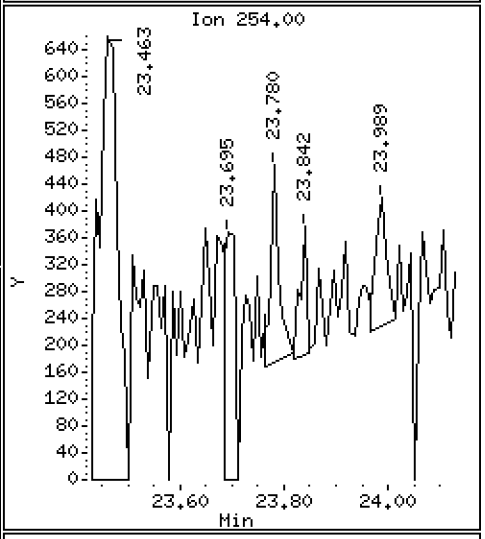
70 3,3'-Dichlorobenzidine

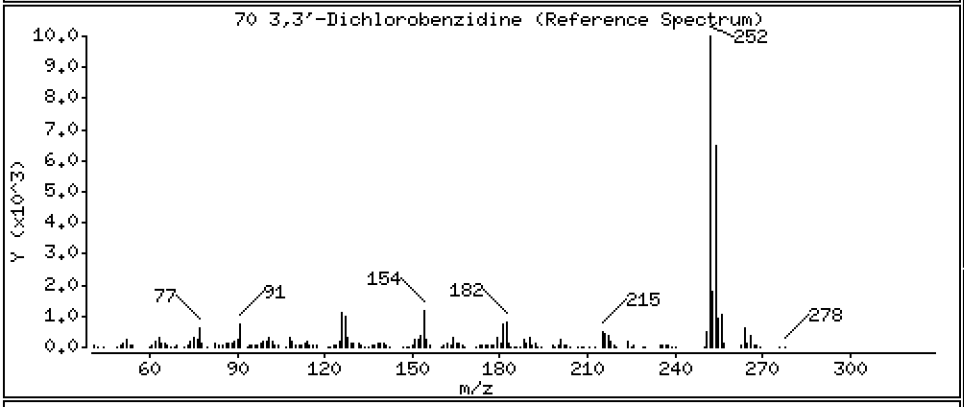
Concentration: 0.01230 ug/mL

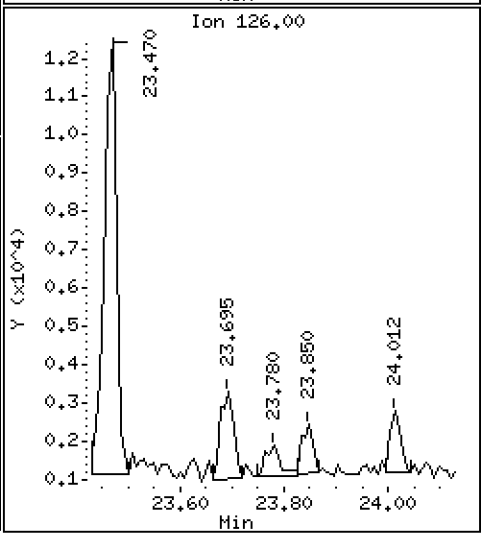


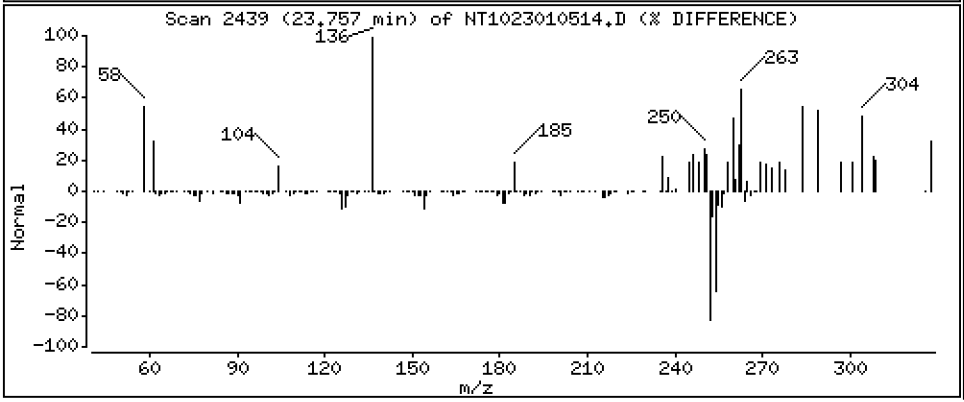












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

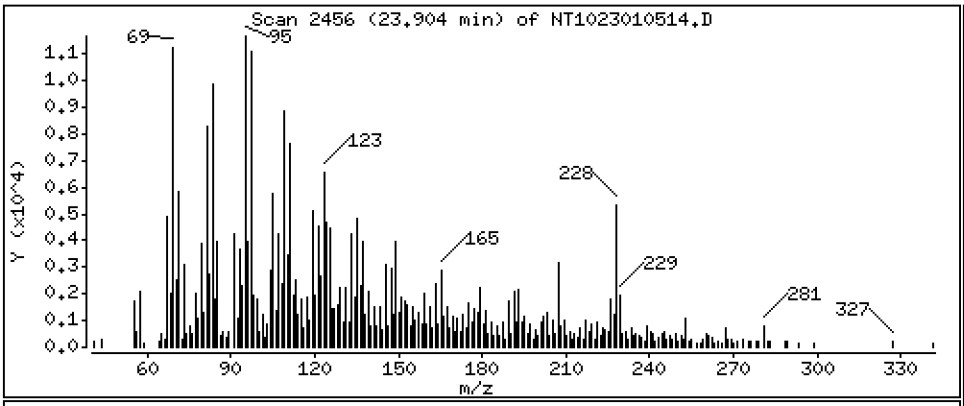
Operator: VTS

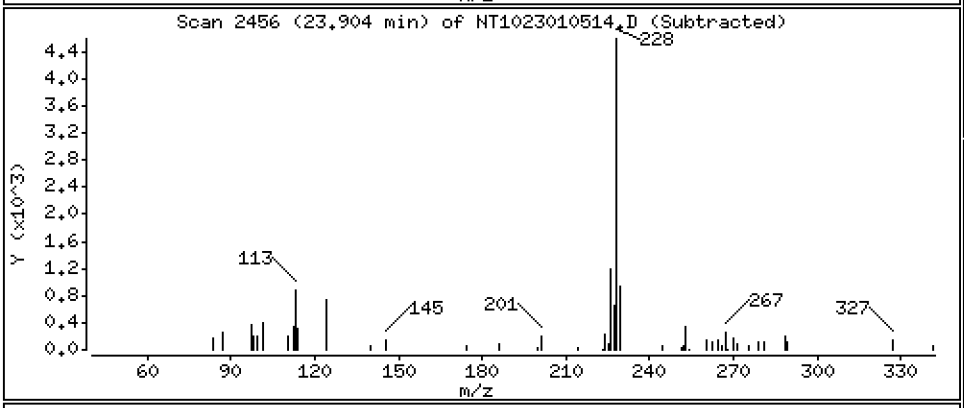
Column phase: ZB-5msi

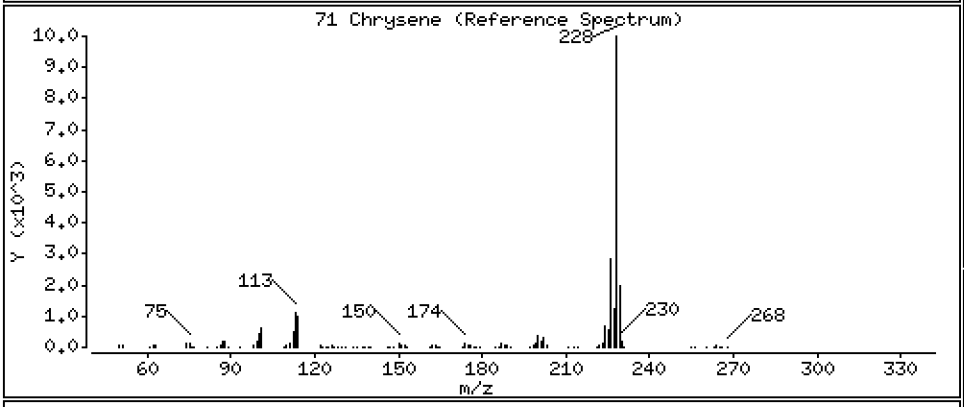
Column diameter: 0.25

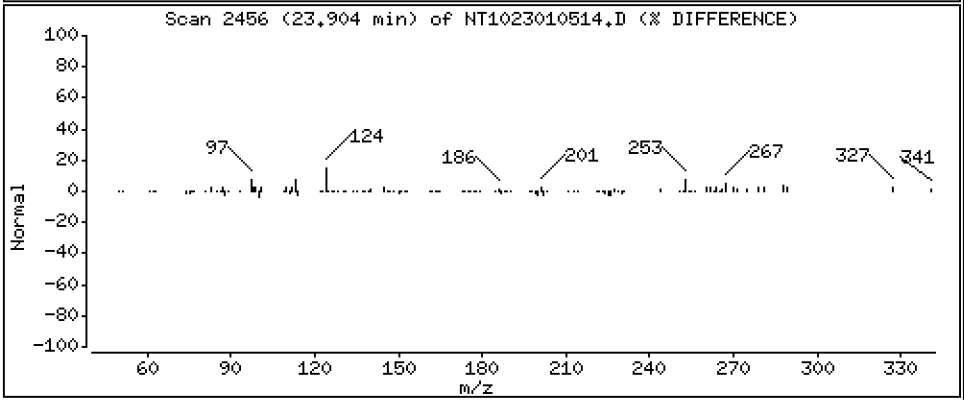
71 Chrysene

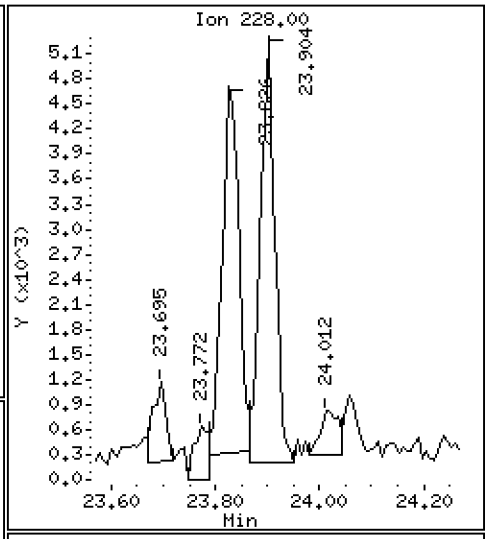
Concentration: 0.4799 ug/mL

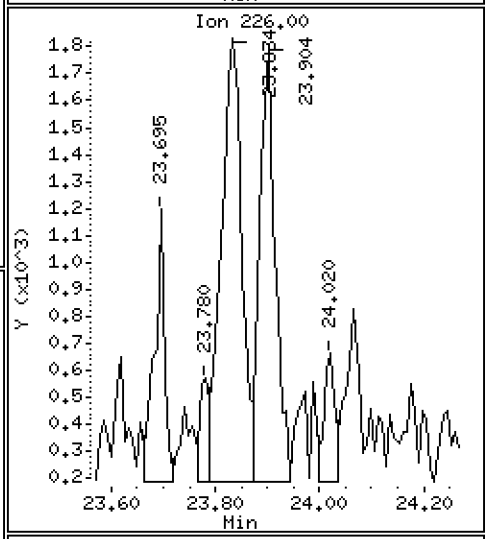


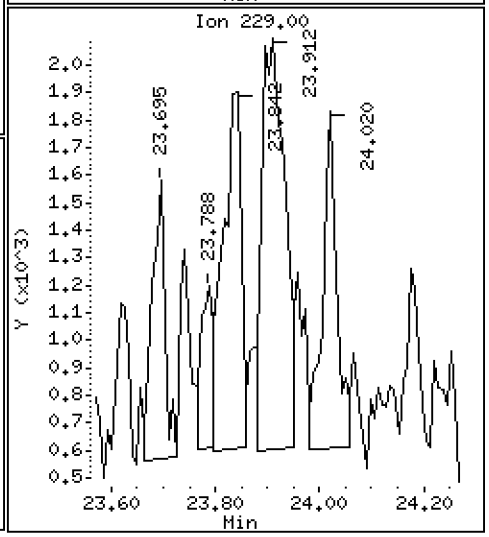












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

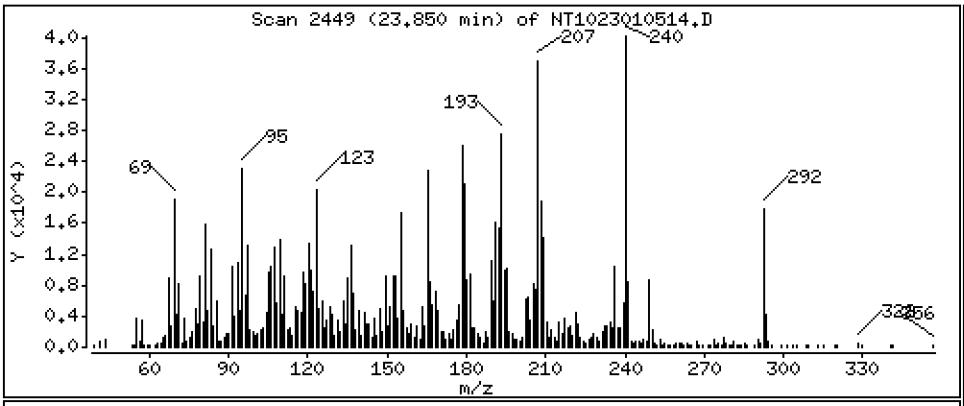
Operator: VTS

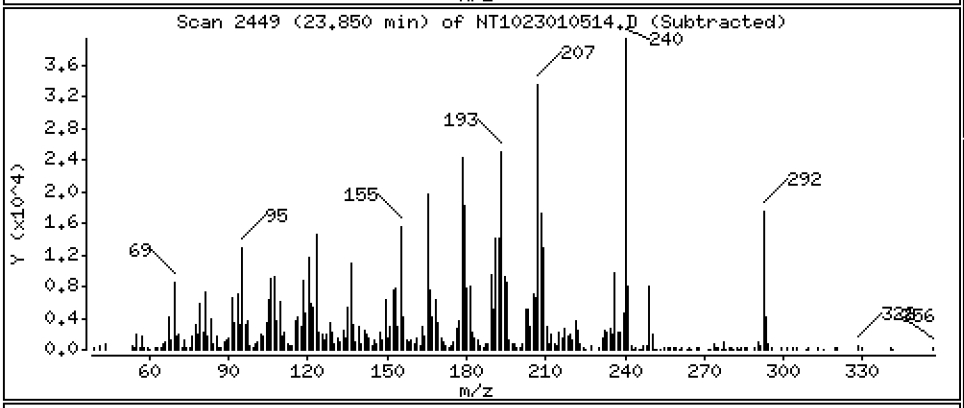
Column phase: ZB-5msi

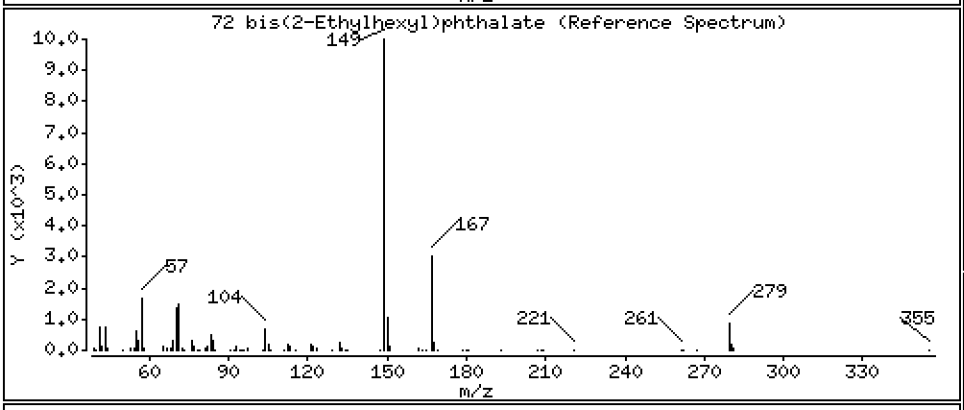
Column diameter: 0.25

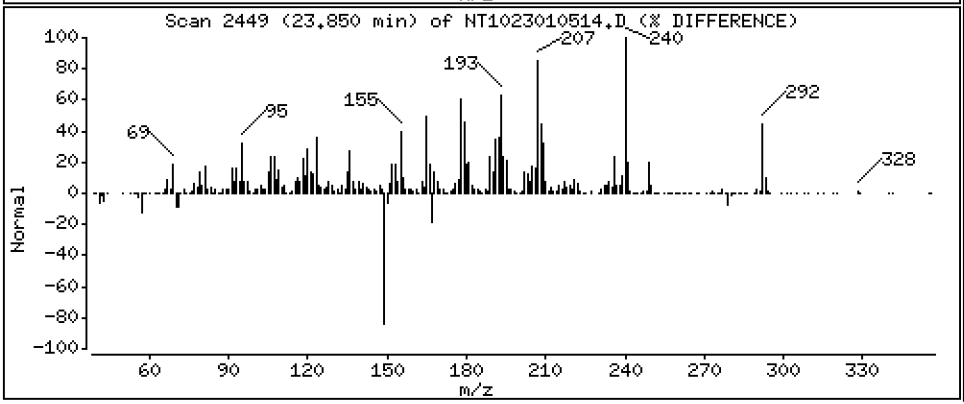
72 bis(2-Ethylhexyl)phthalate

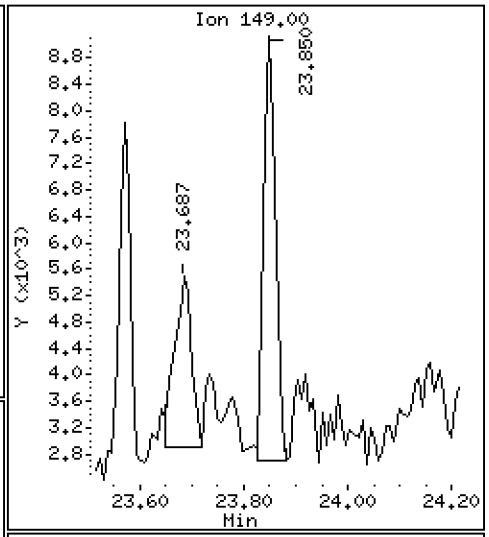
Concentration: 0.2425 ug/mL

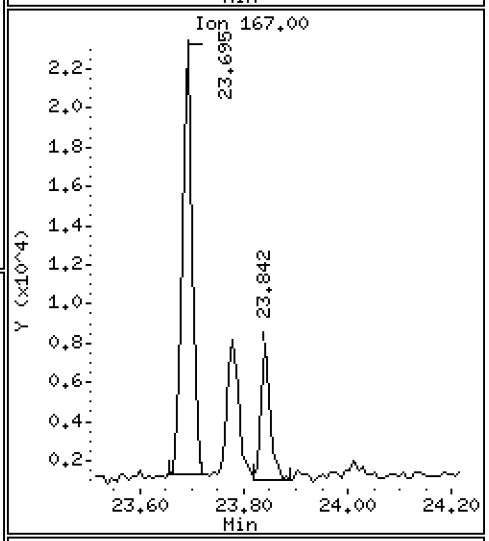


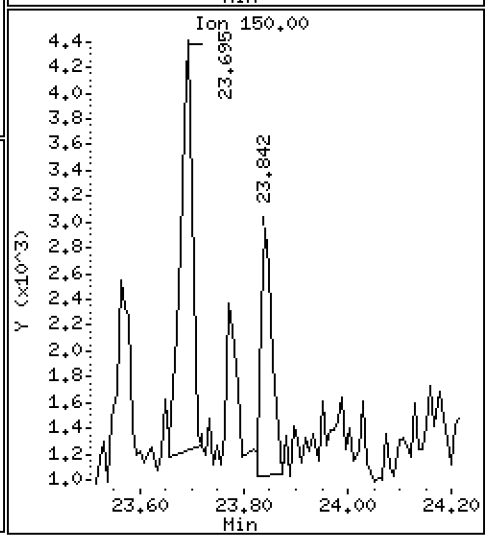












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

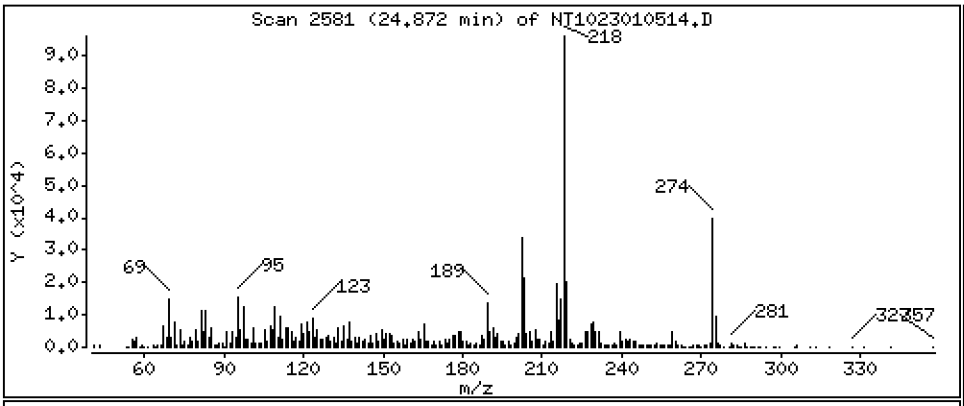
Operator: VTS

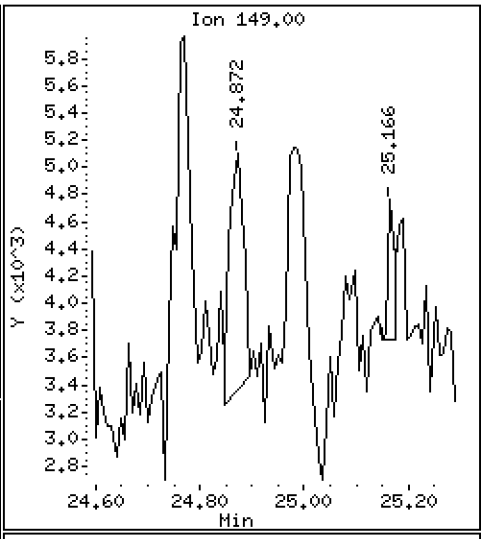
Column phase: ZB-5msi

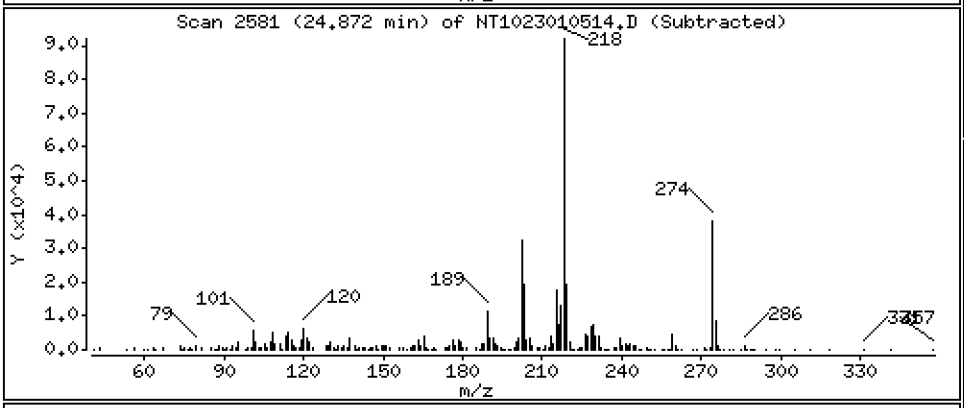
Column diameter: 0.25

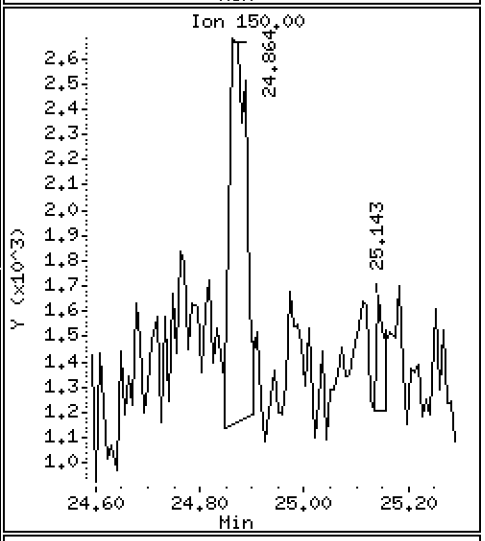
73 Di-n-octylphthalate

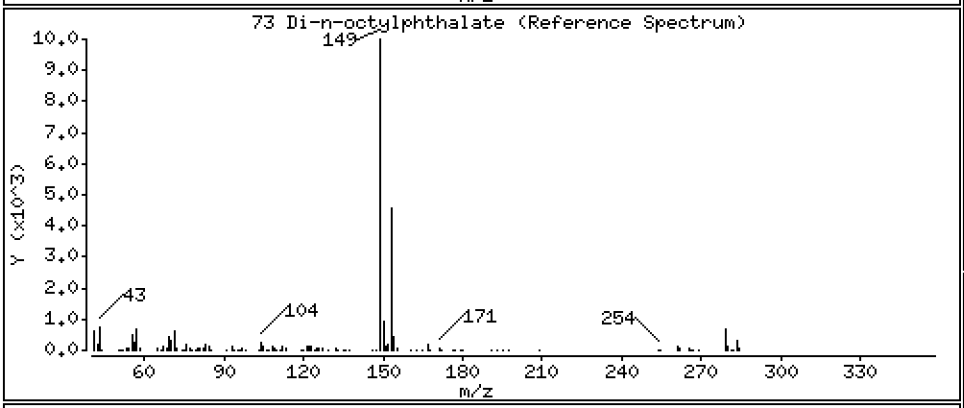
Concentration: 0.05111 ug/mL

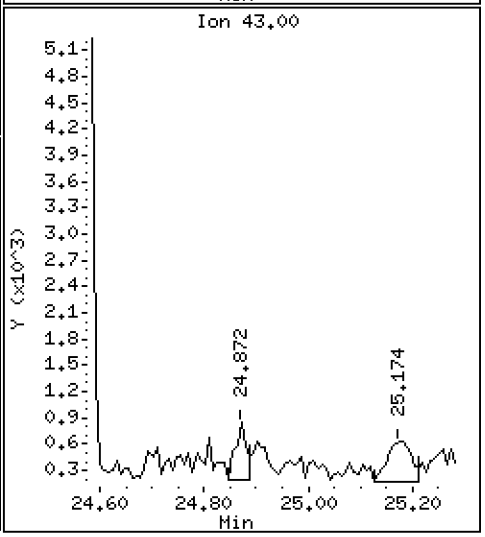


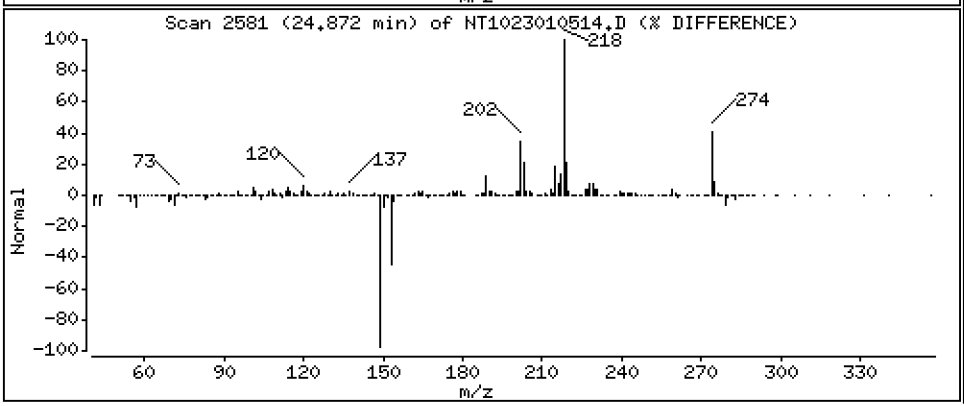












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

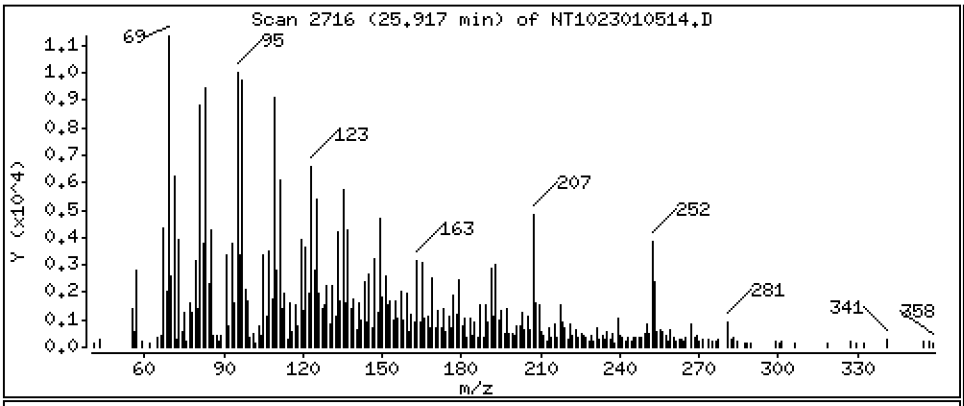
Operator: VTS

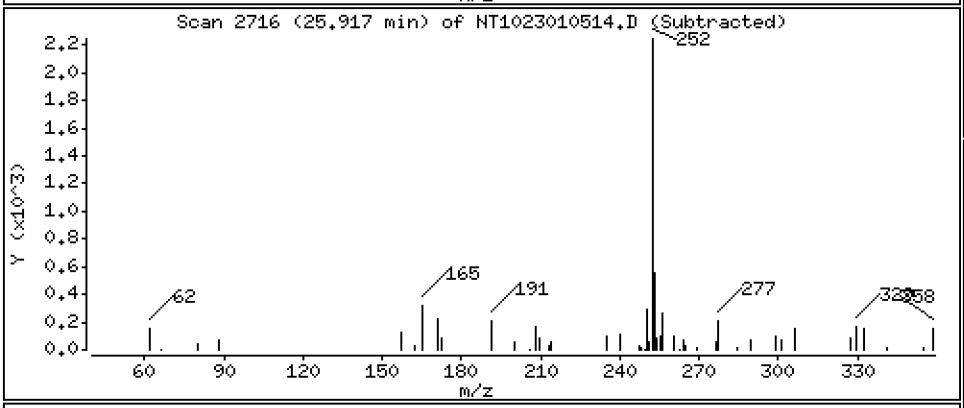
Column phase: ZB-5msi

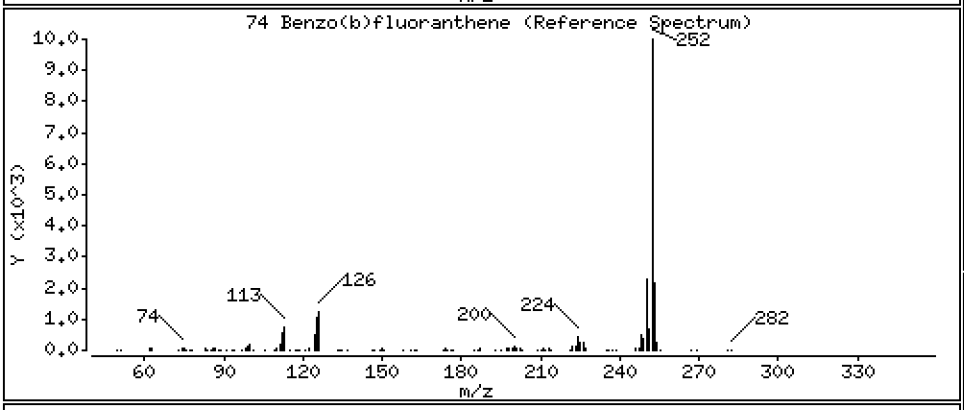
Column diameter: 0.25

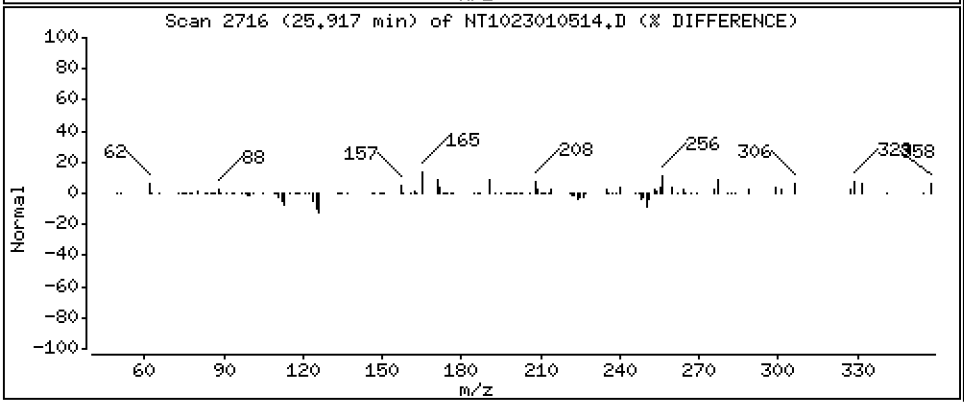
74 Benzo(b)fluoranthene

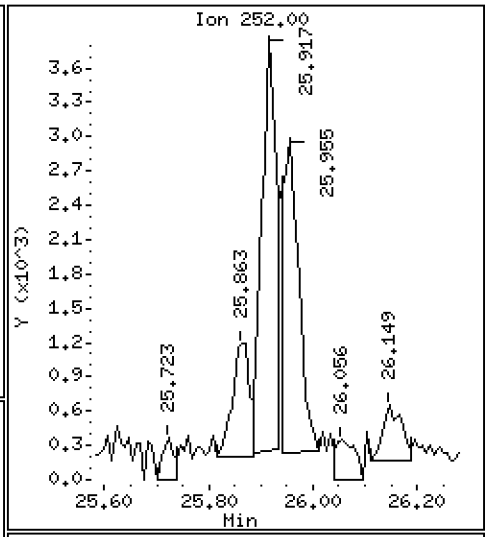
Concentration: 0.2364 ug/mL

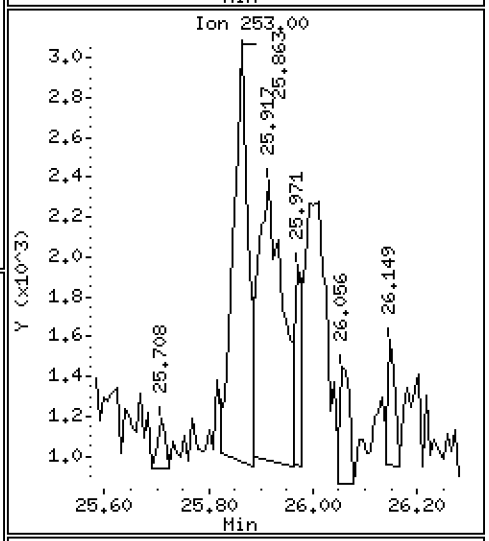


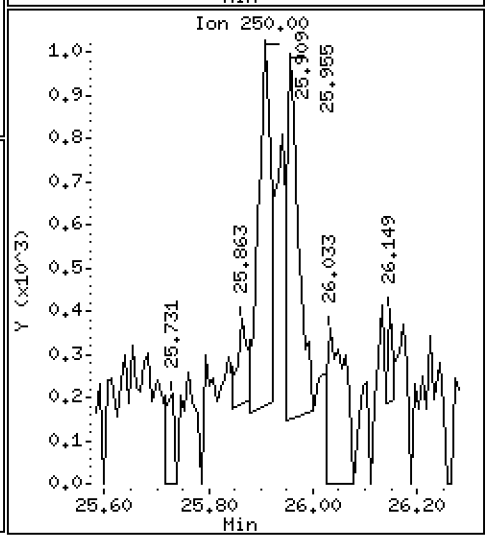












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

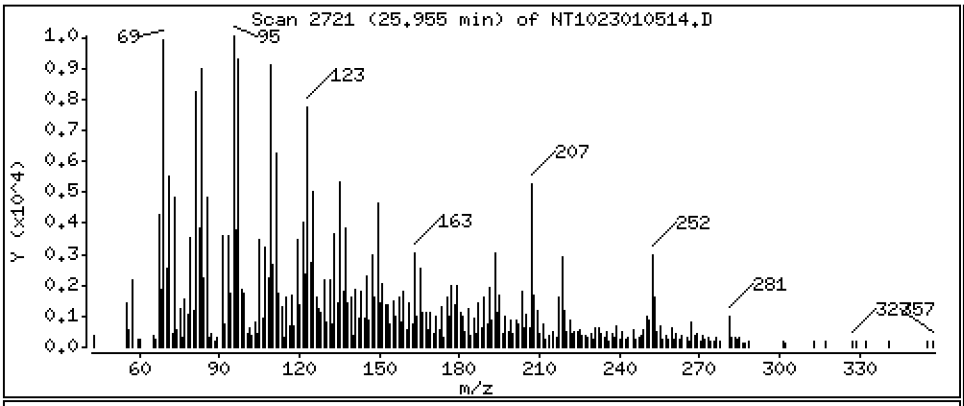
Operator: VTS

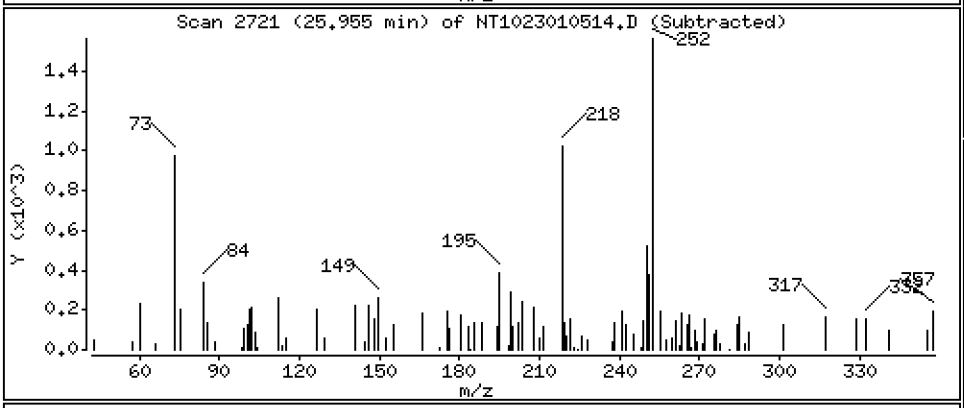
Column phase: ZB-5msi

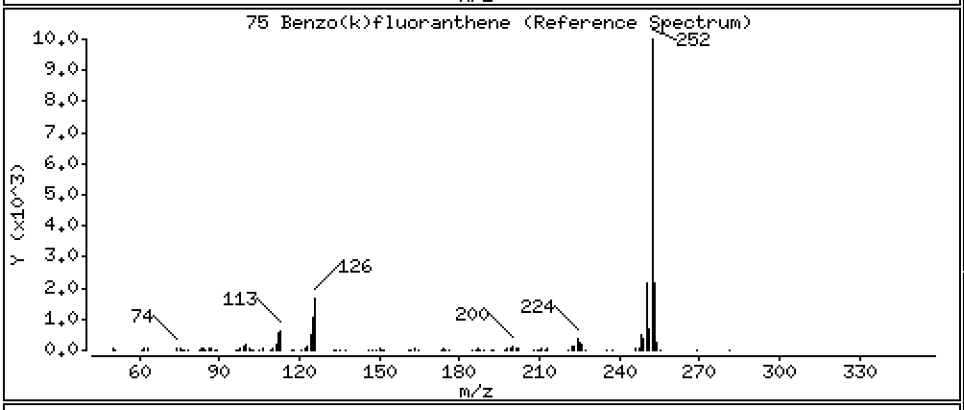
Column diameter: 0.25

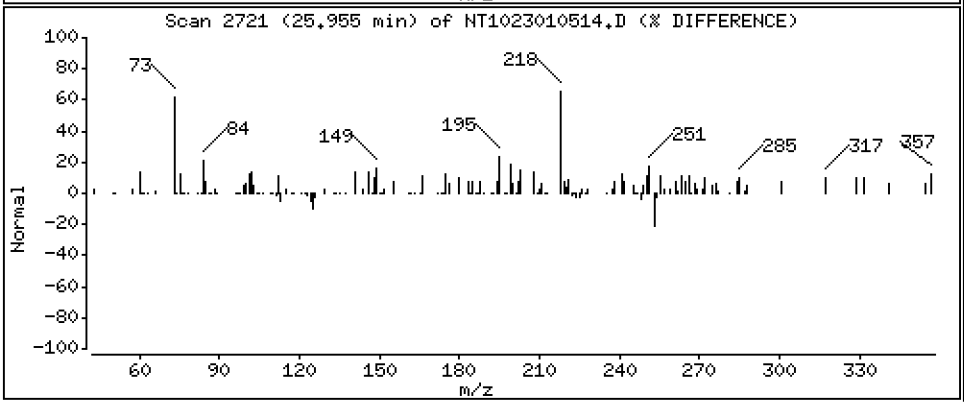
75 Benzo(k)fluoranthene

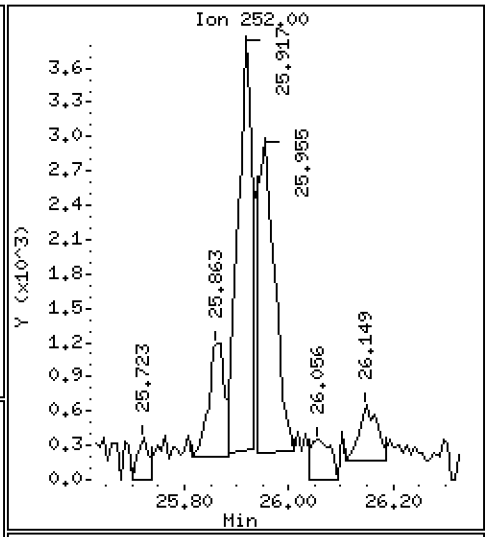
Concentration: 0.2196 ug/mL

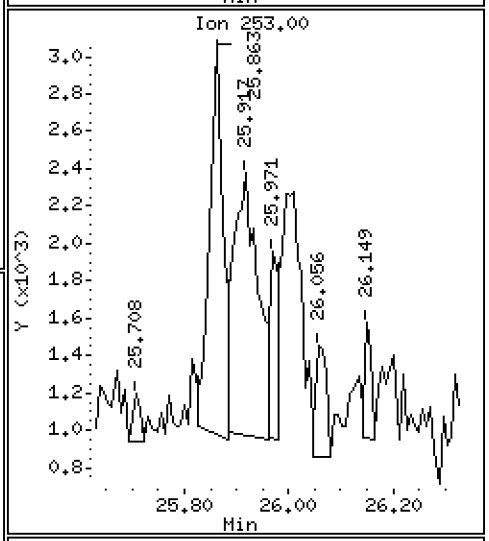


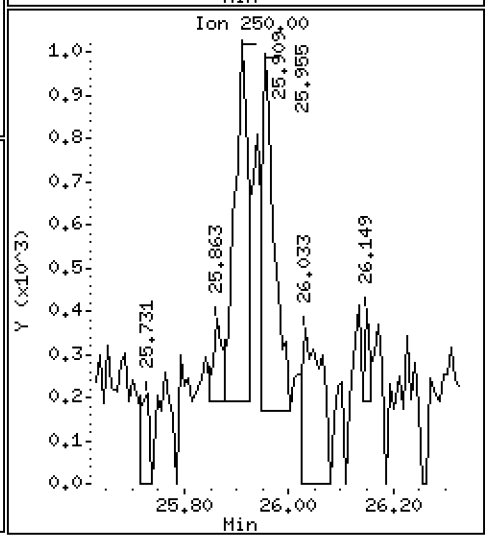












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

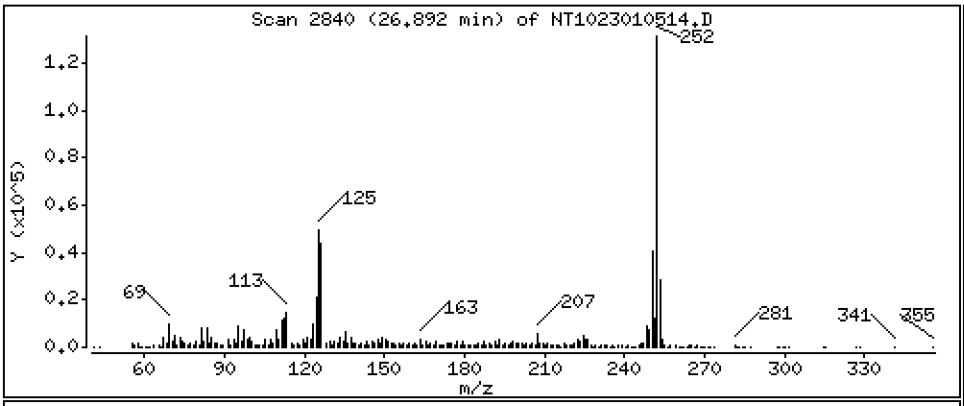
Operator: VTS

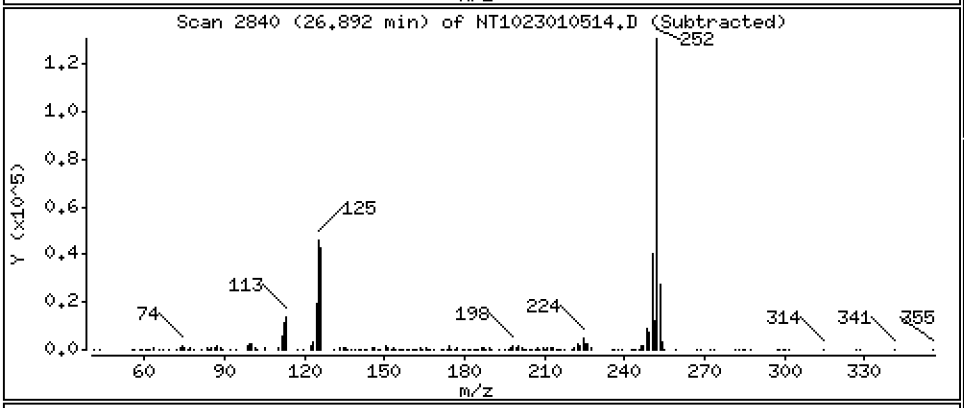
Column phase: ZB-5msi

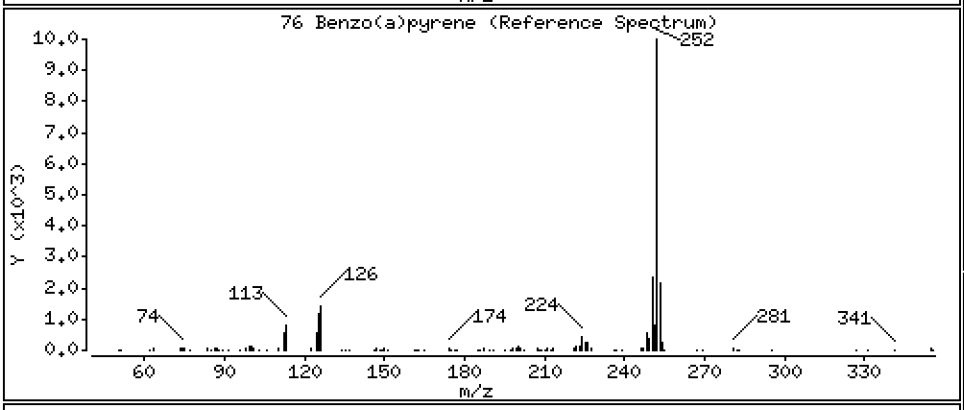
Column diameter: 0.25

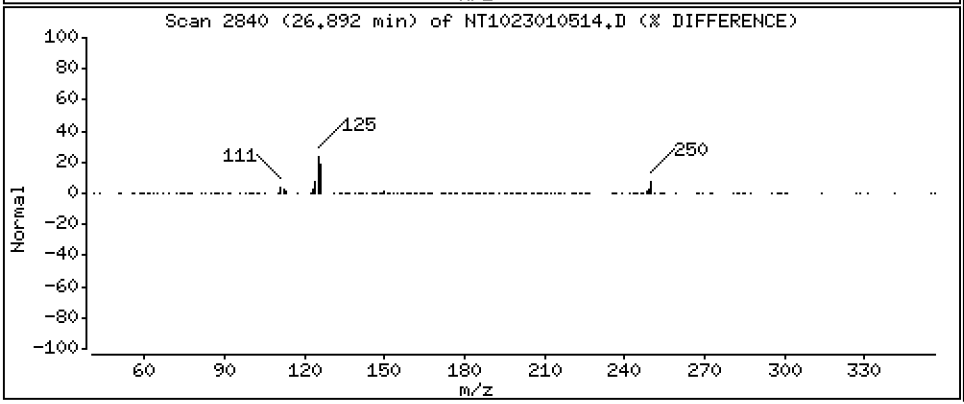
76 Benzo(a)pyrene

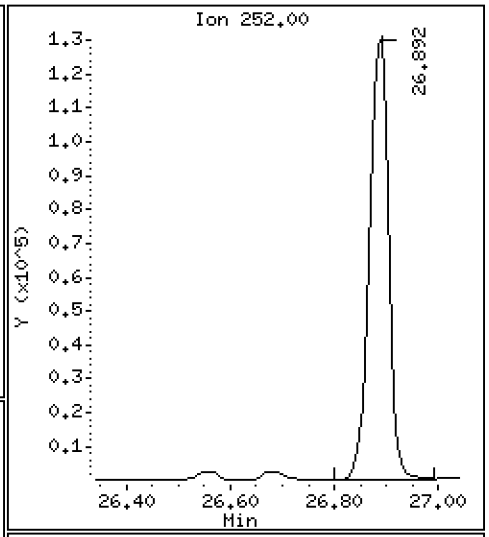
Concentration: 12.35 ug/mL

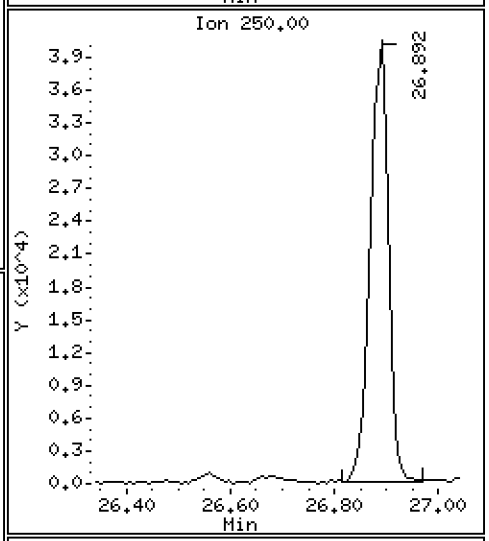


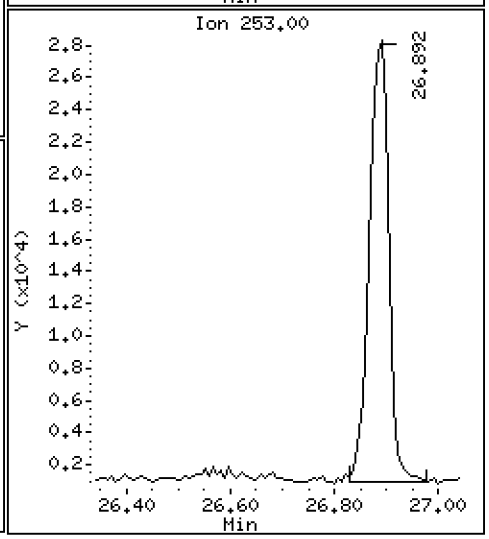












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010514.D

Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

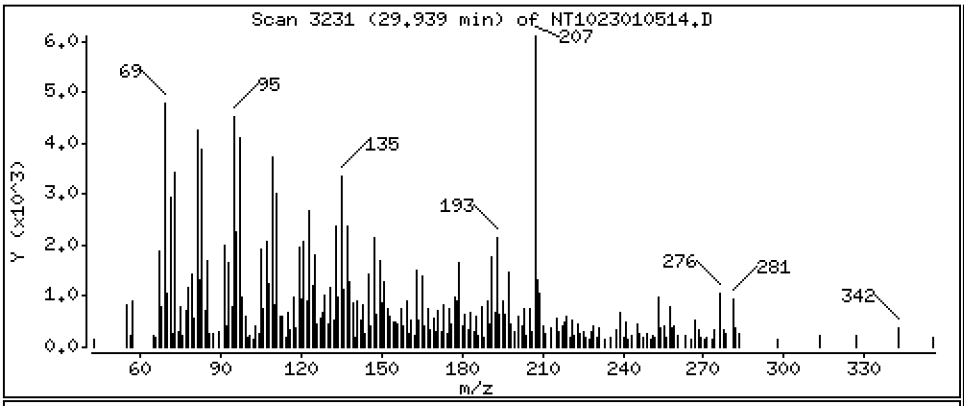
Operator: VTS

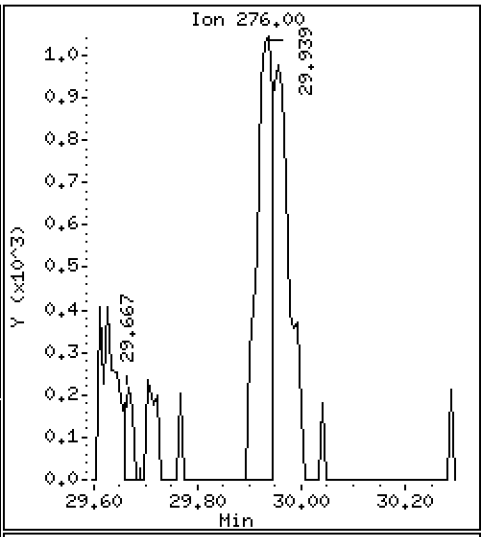
Column phase: ZB-5msi

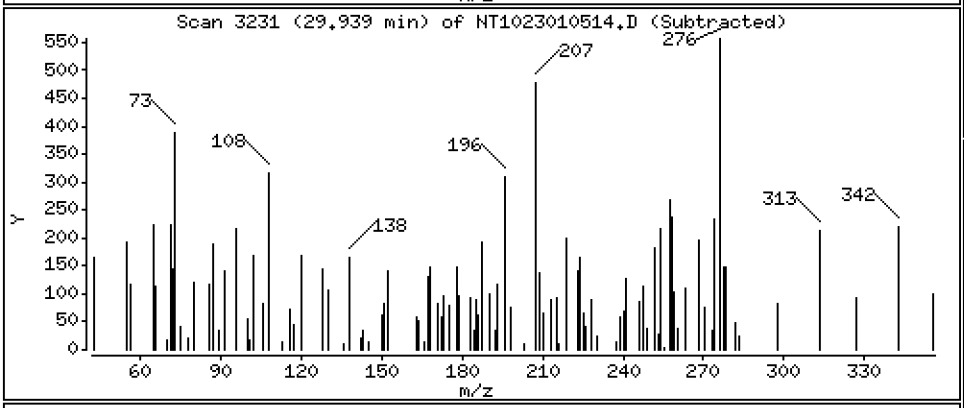
Column diameter: 0.25

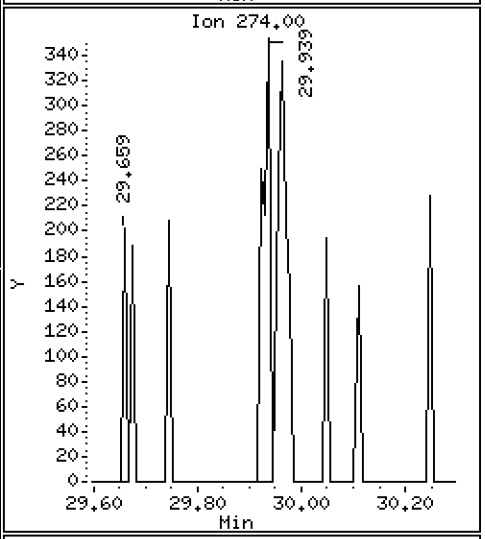
78 Indeno(1,2,3-cd)pyrene

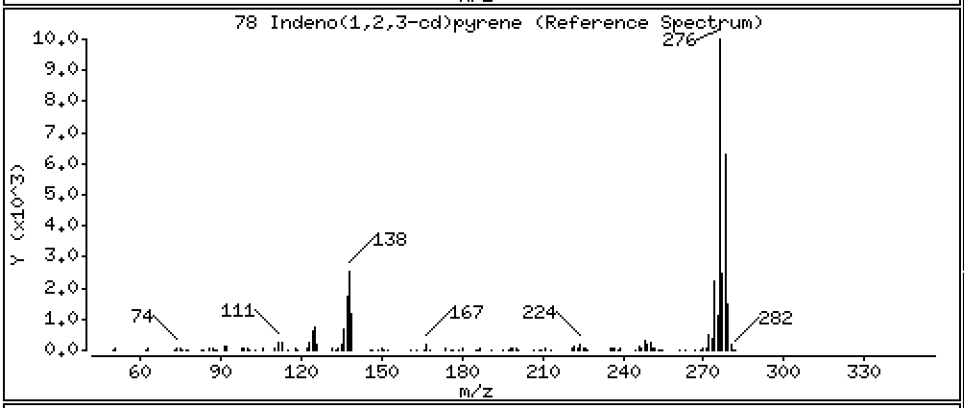
Concentration: 0.1082 ug/mL

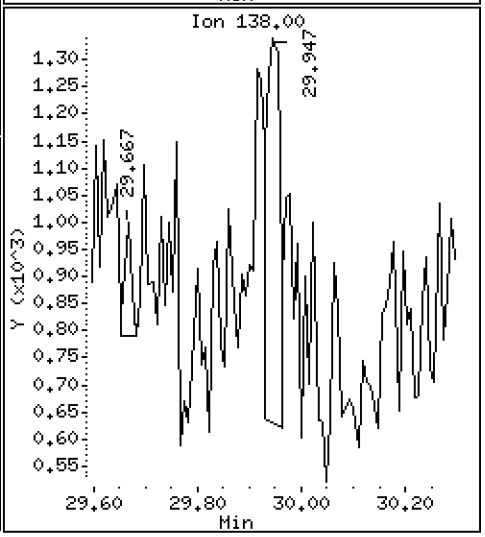


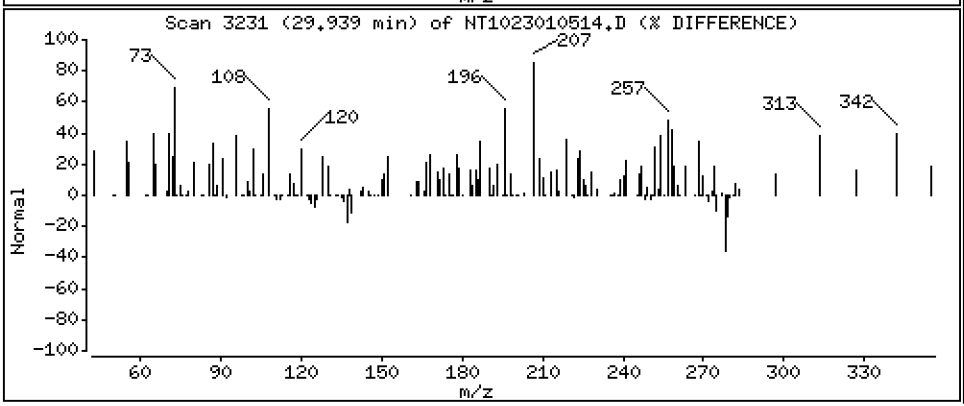












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

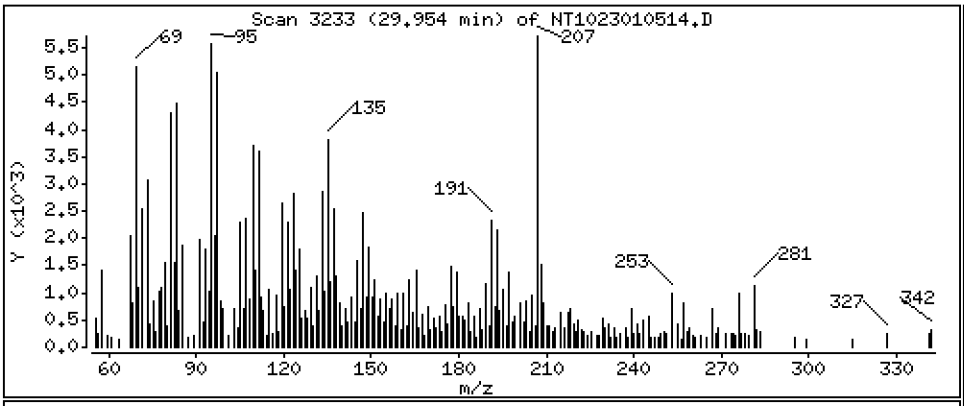
Operator: VTS

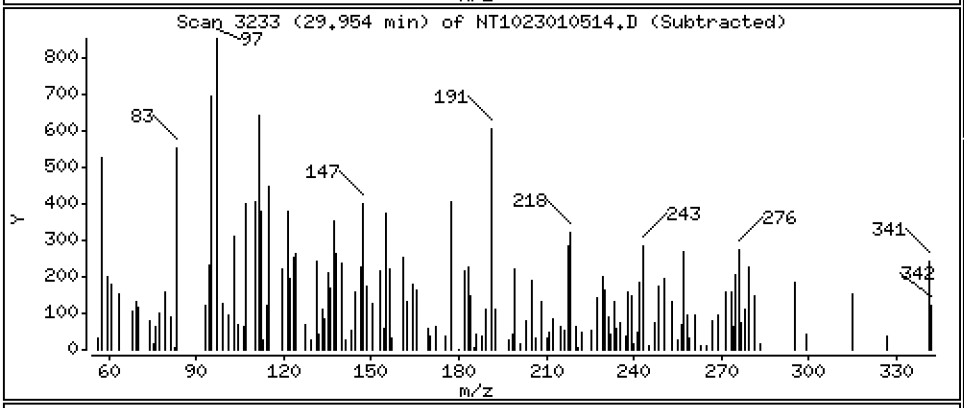
Column phase: ZB-5msi

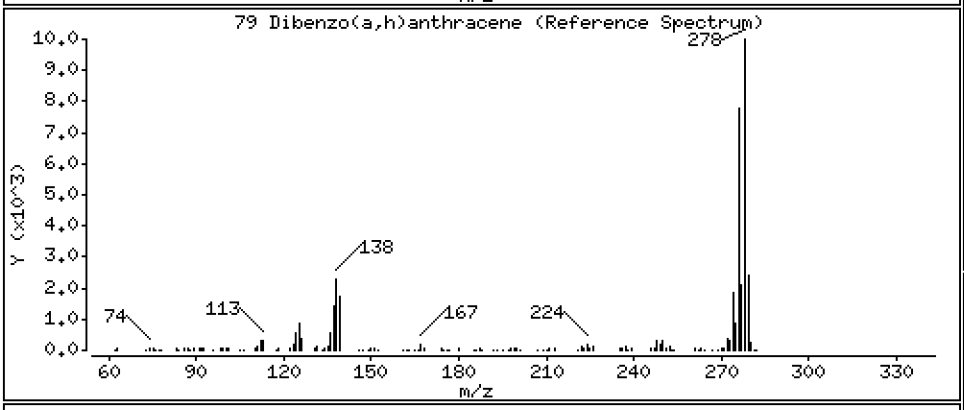
Column diameter: 0.25

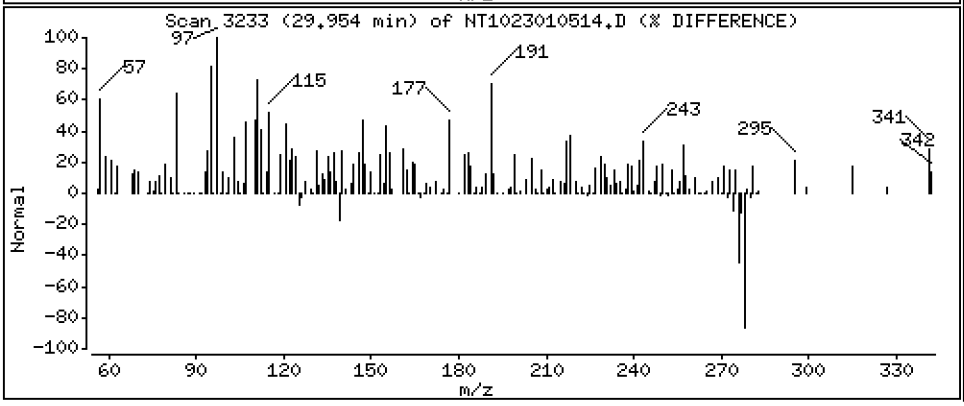
79 Dibenzo(a,h)anthracene

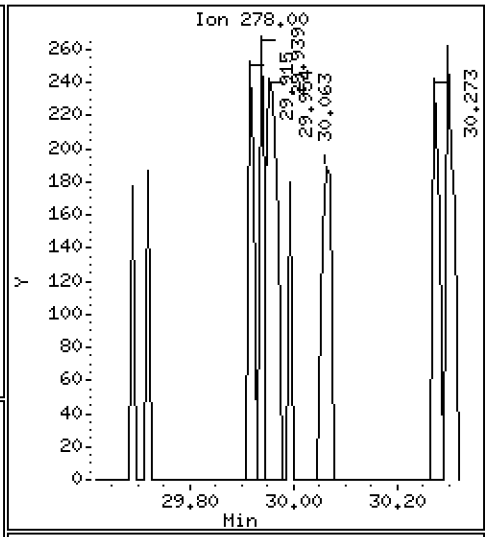
Concentration: 0.02144 ug/mL

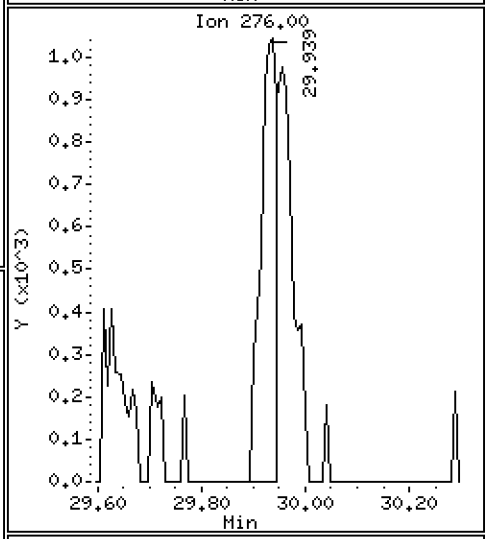


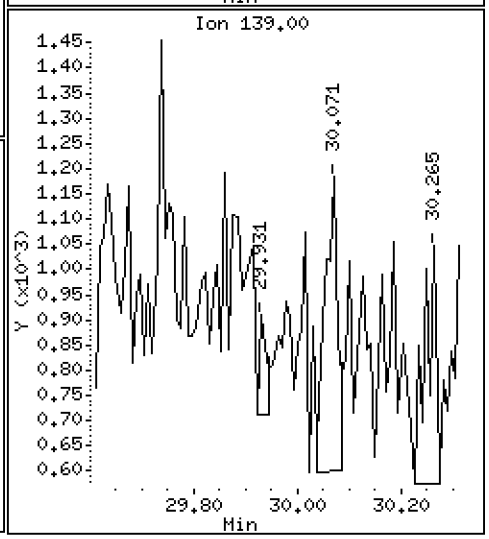












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

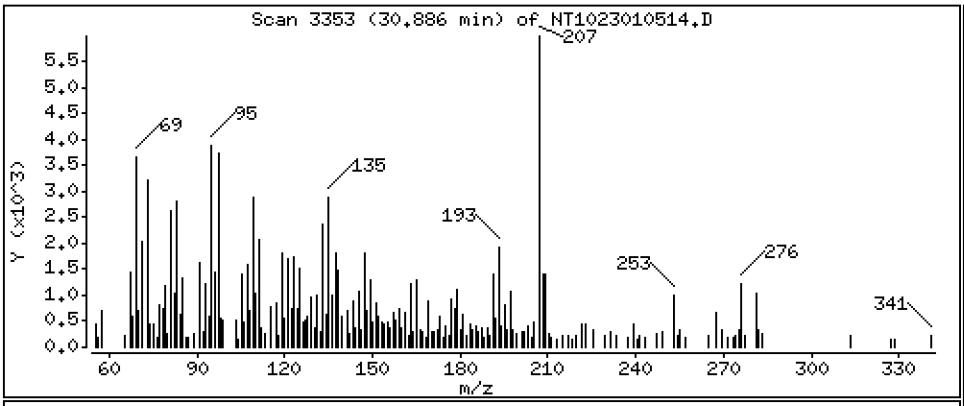
Operator: VTS

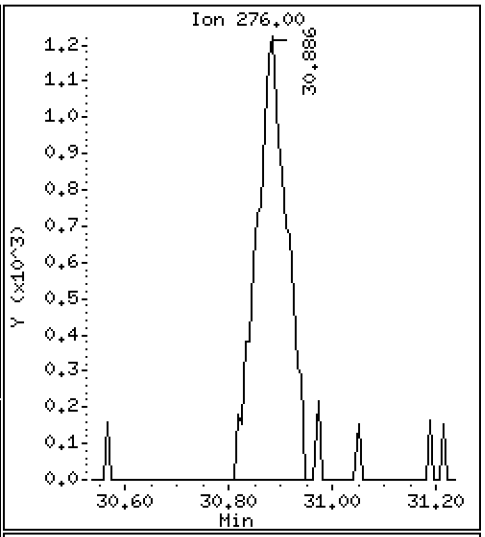
Column phase: ZB-5msi

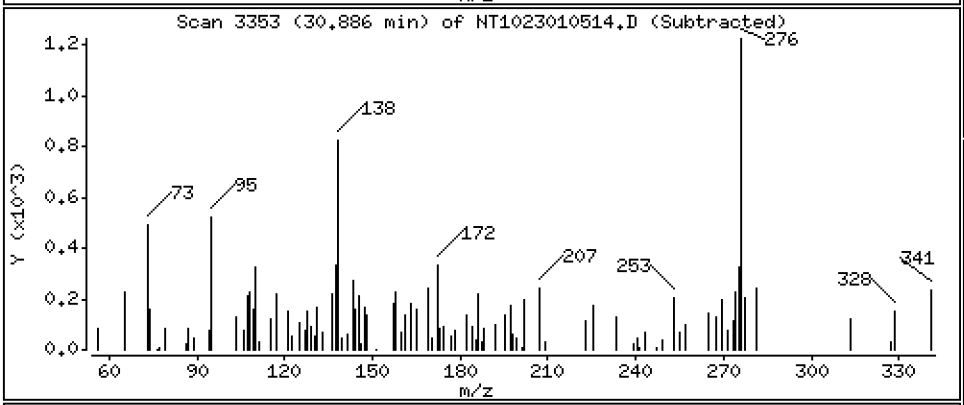
Column diameter: 0.25

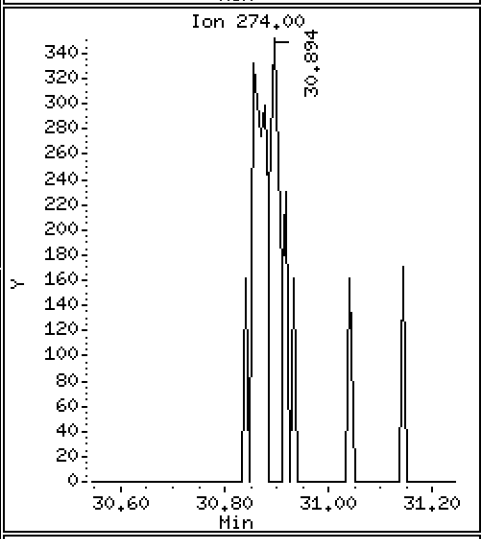
80 Benzo(g,h,i)perylene

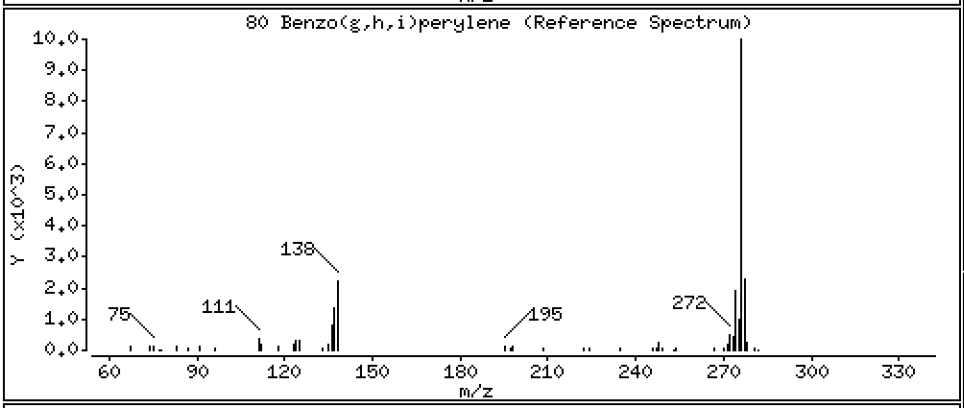
Concentration: 0.2751 ug/mL

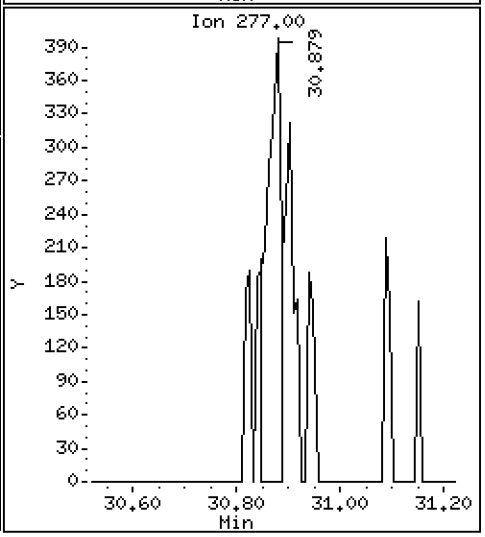


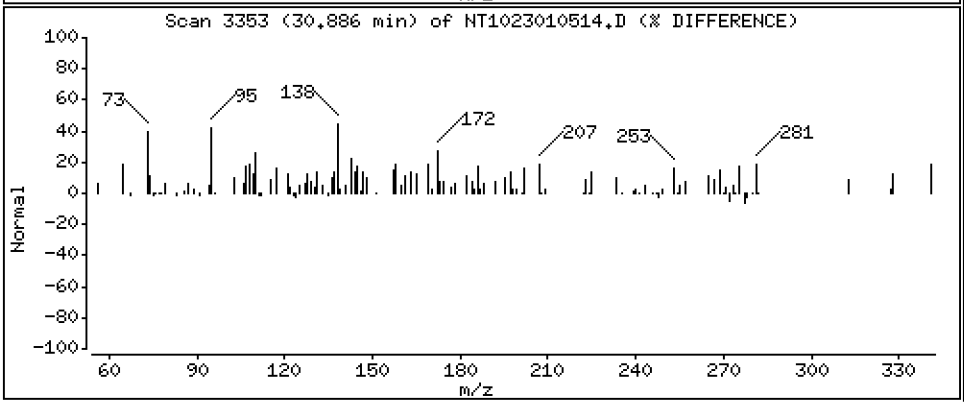












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

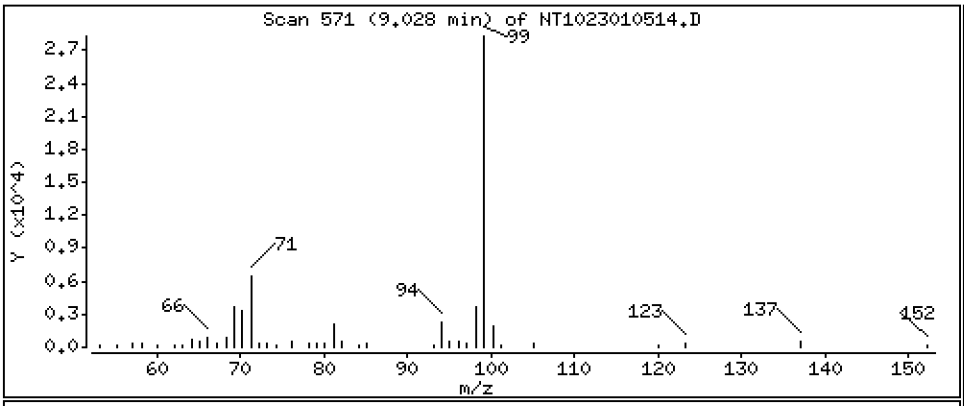
Operator: VTS

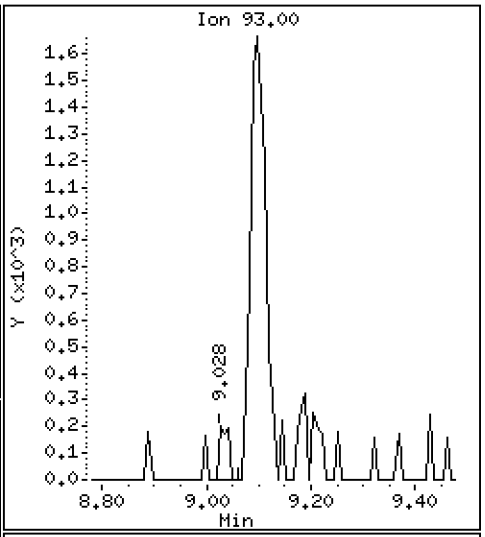
Column phase: ZB-5msi

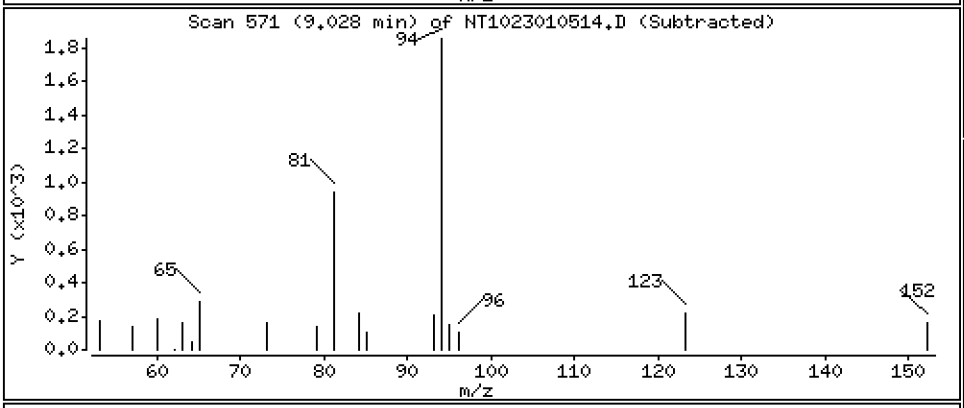
Column diameter: 0.25

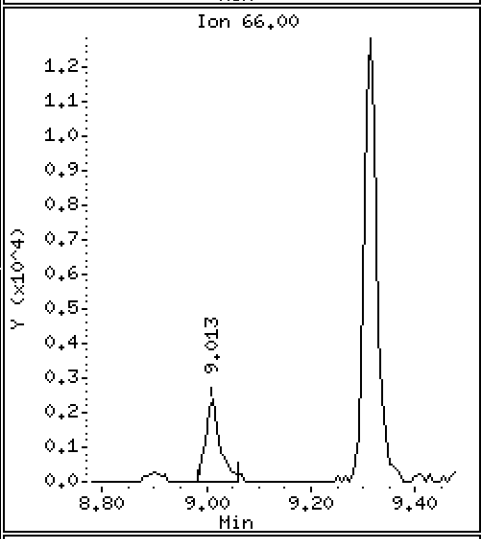
91 Aniline

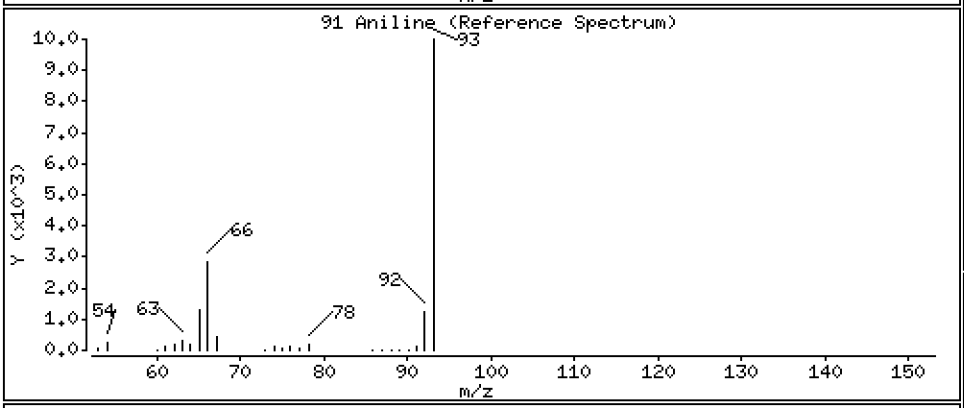
Concentration: 0.009528 ug/mL

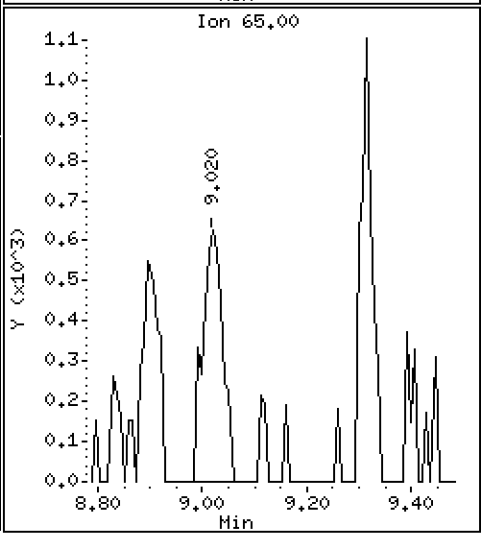


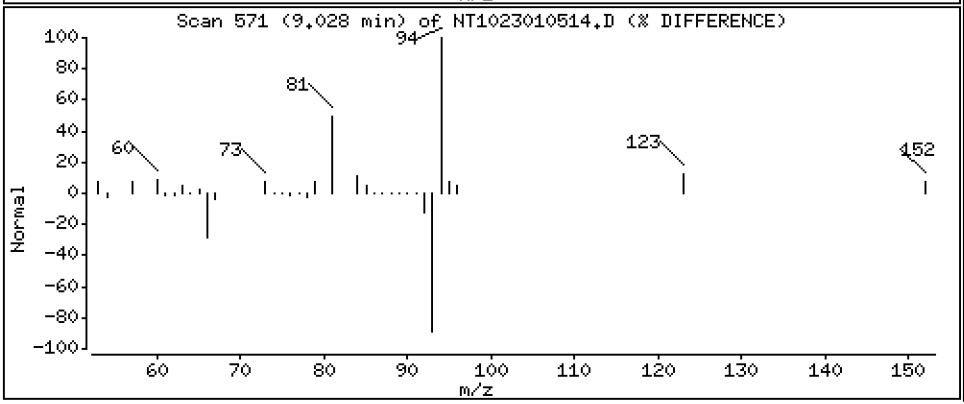












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

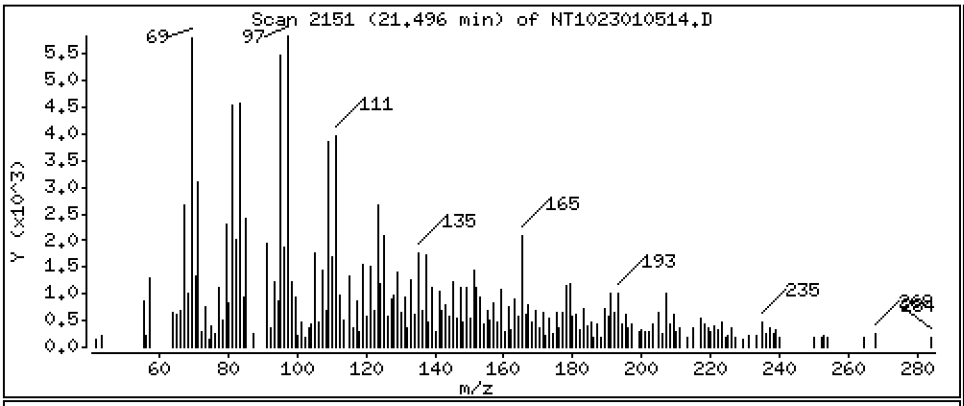
Operator: VTS

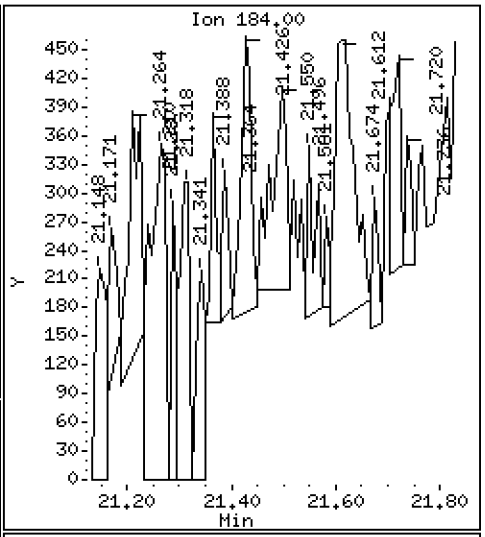
Column phase: ZB-5msi

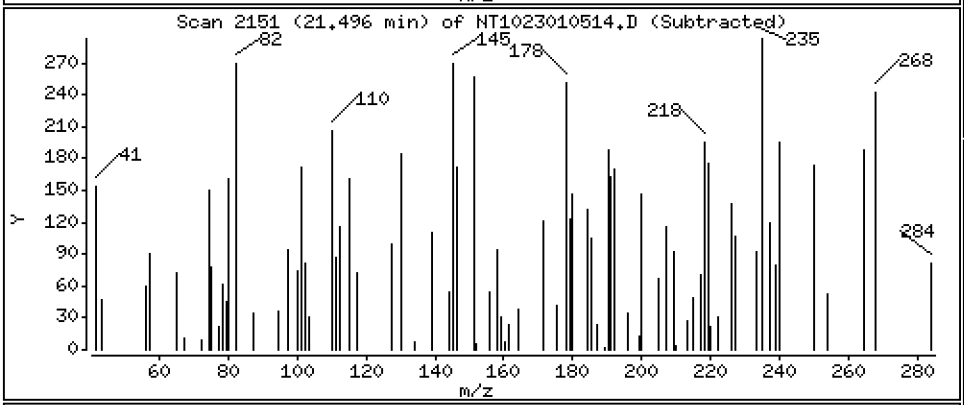
Column diameter: 0.25

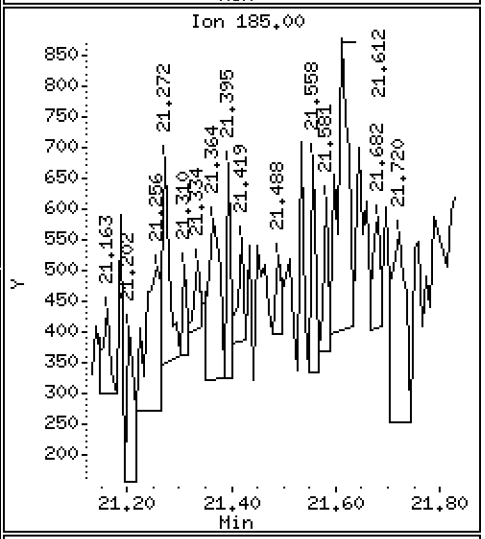
93 Benzidine

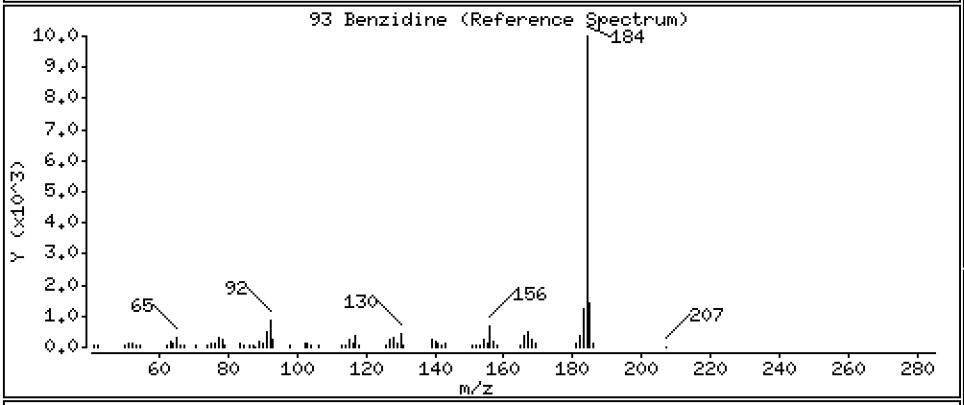
Concentration: 0.02798 ug/mL

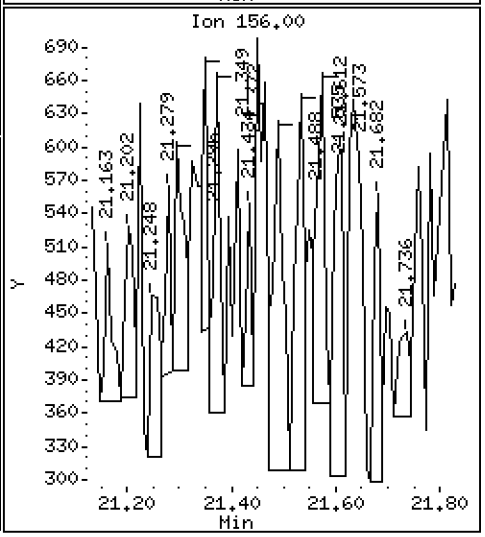


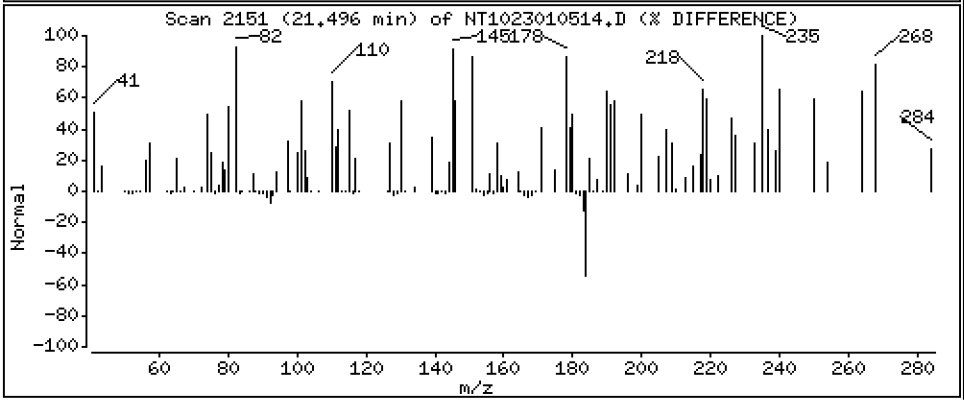












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

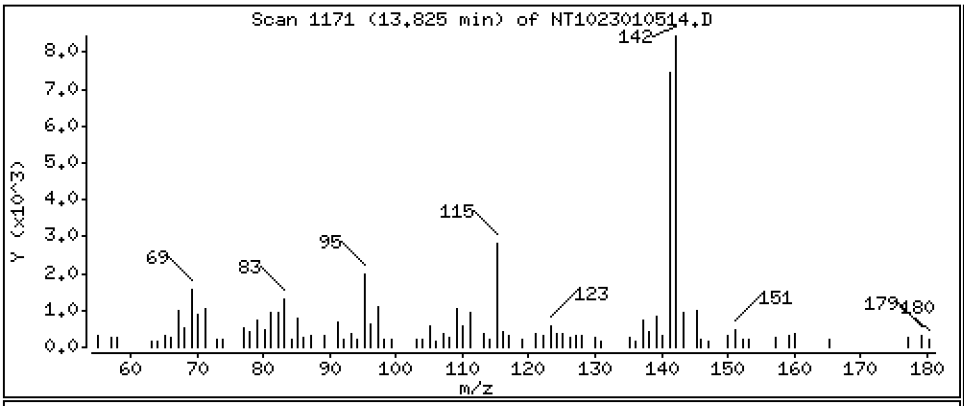
Operator: VTS

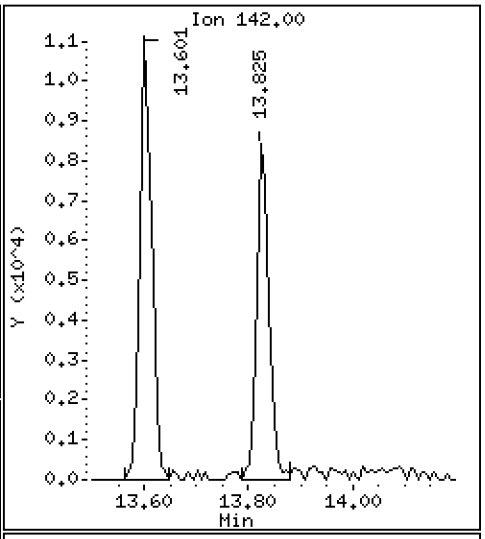
Column phase: ZB-5msi

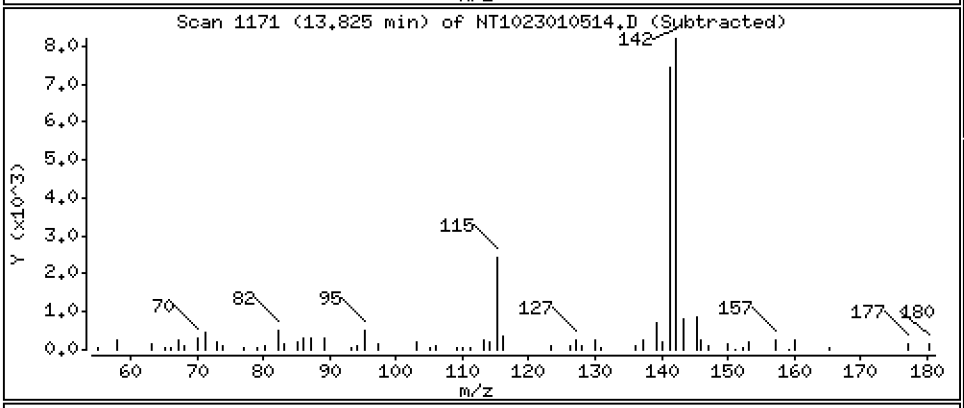
Column diameter: 0.25

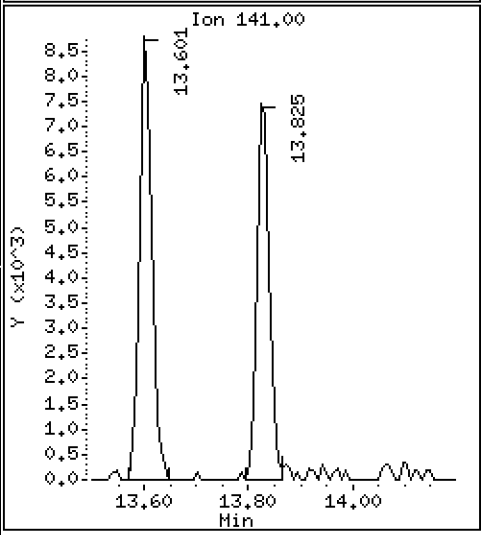
105 1-methylnaphthalene

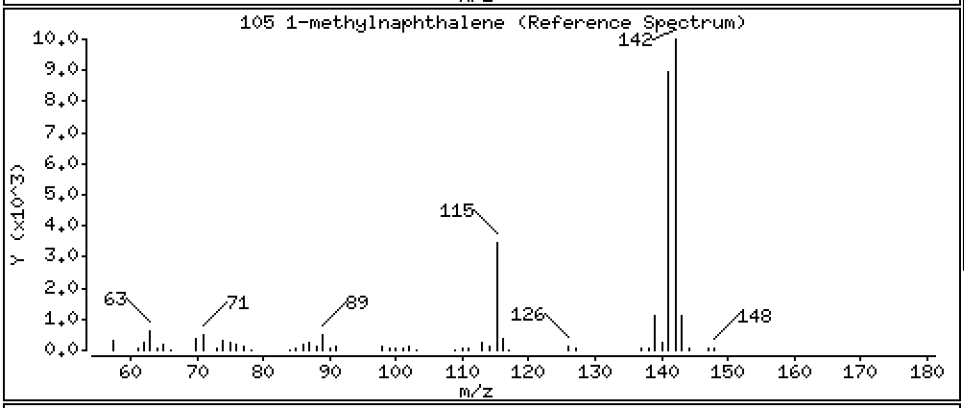
Concentration: 0.2686 ug/mL

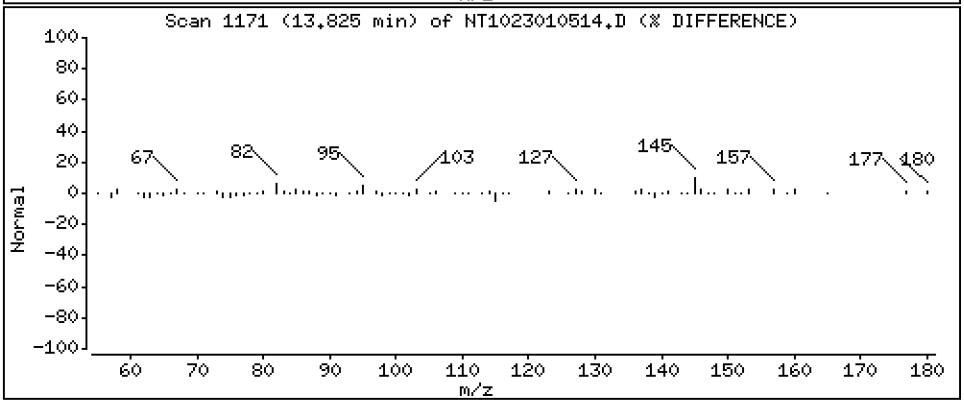












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

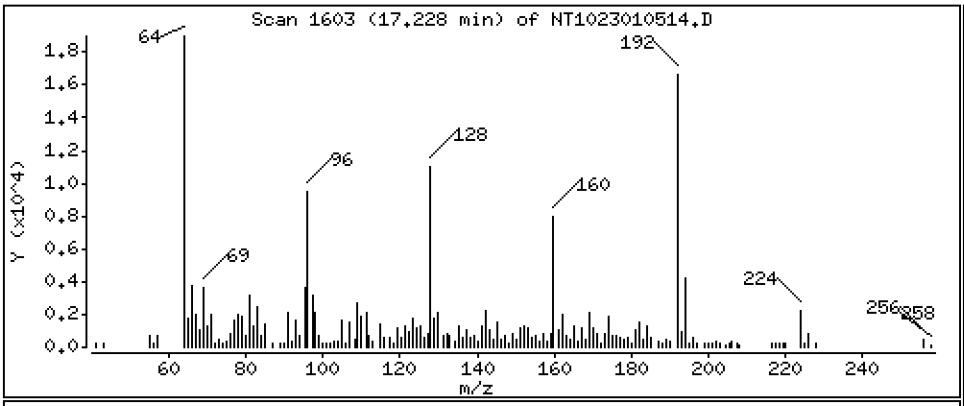
Operator: VTS

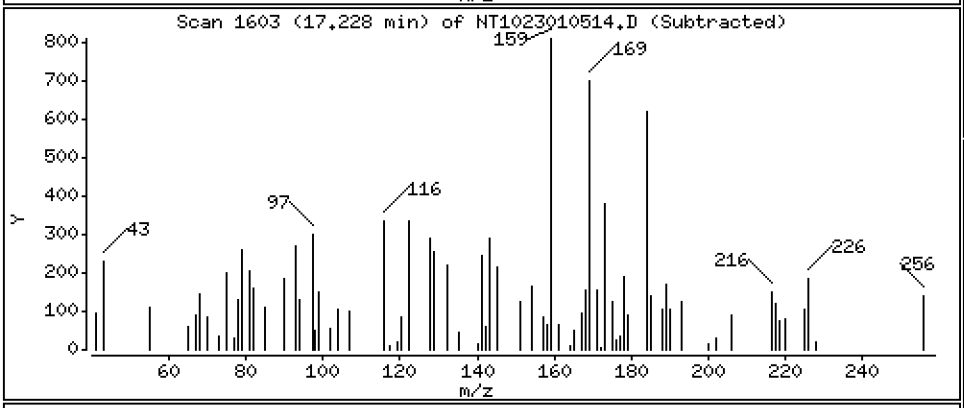
Column phase: ZB-5msi

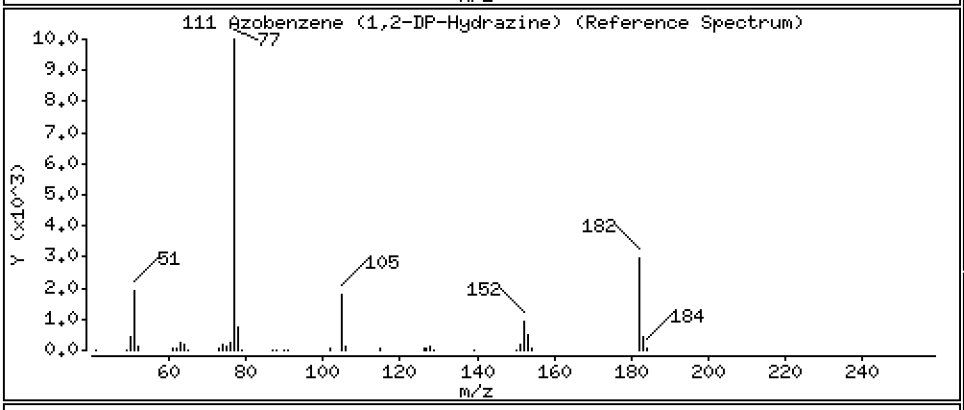
Column diameter: 0.25

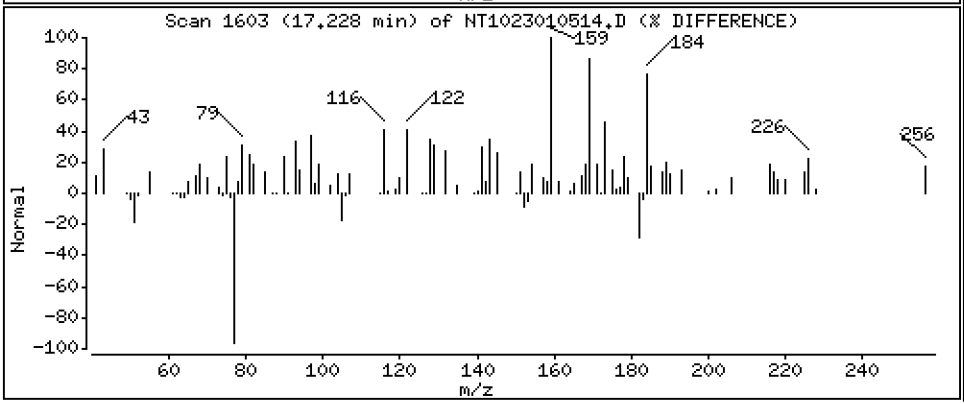
111 Azobenzene (1,2-DP-Hydrazine)

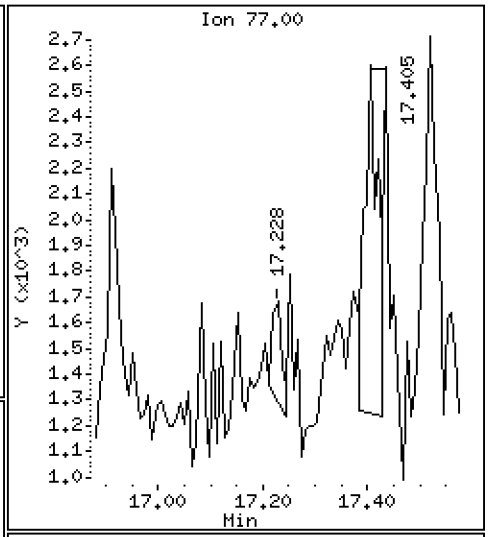
Concentration: 0.009440 ug/mL

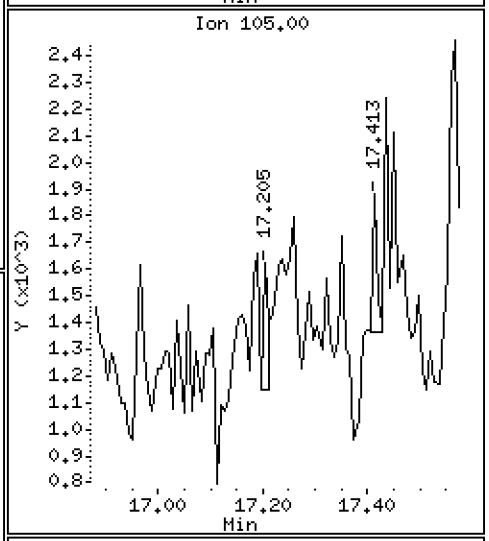


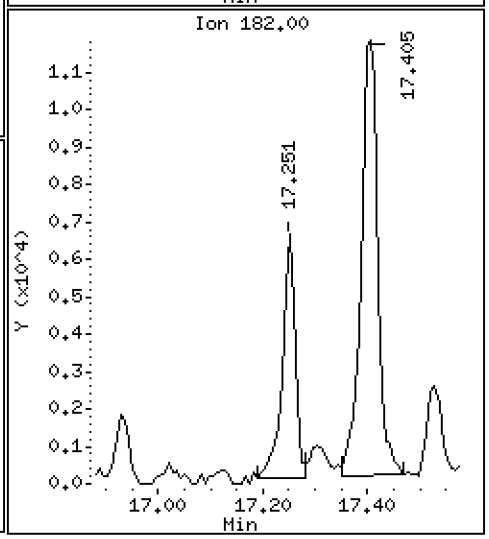












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Date : 05-JAN-2023 21:44

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-12

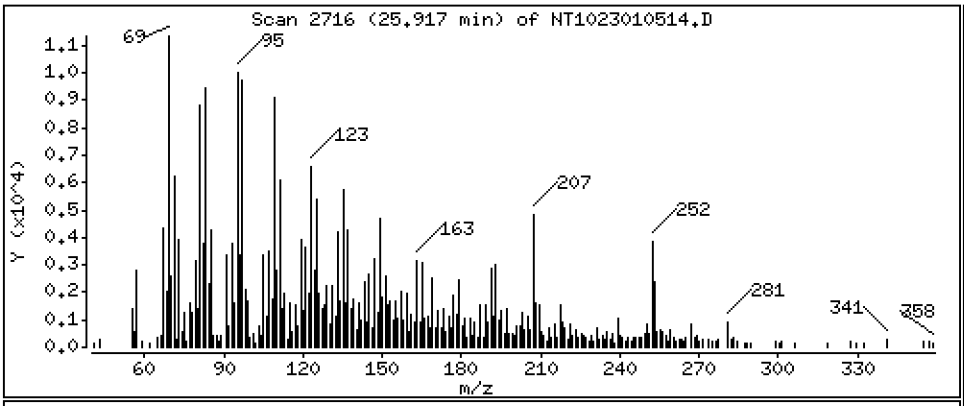
Operator: VTS

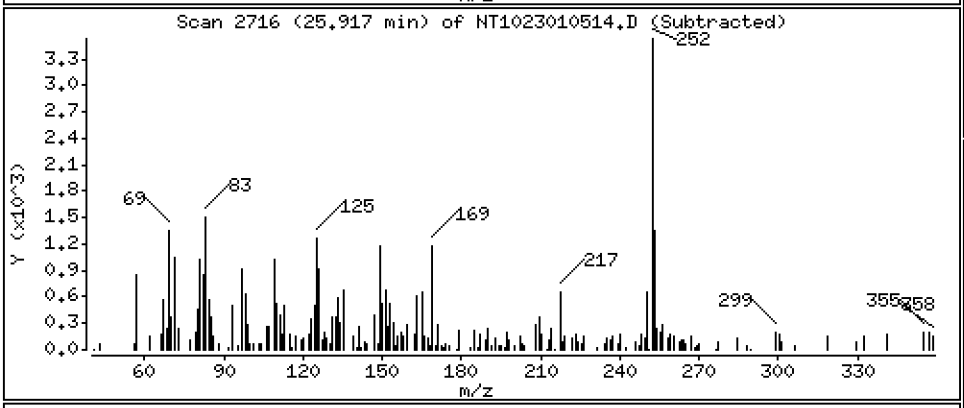
Column phase: ZB-5msi

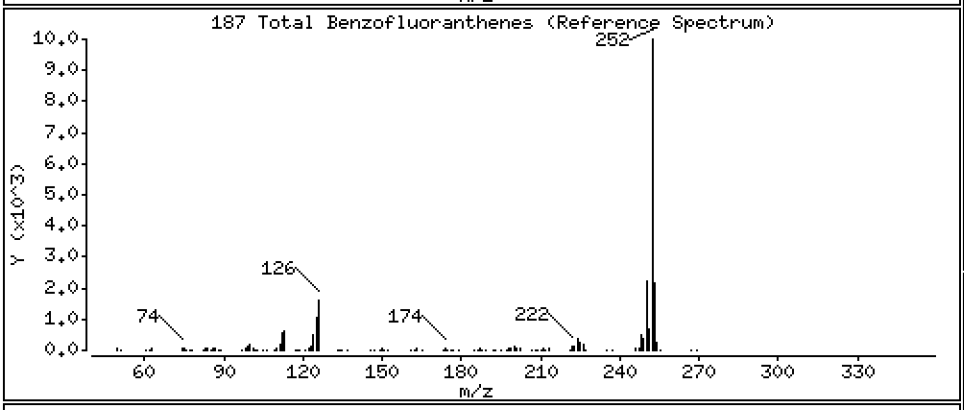
Column diameter: 0.25

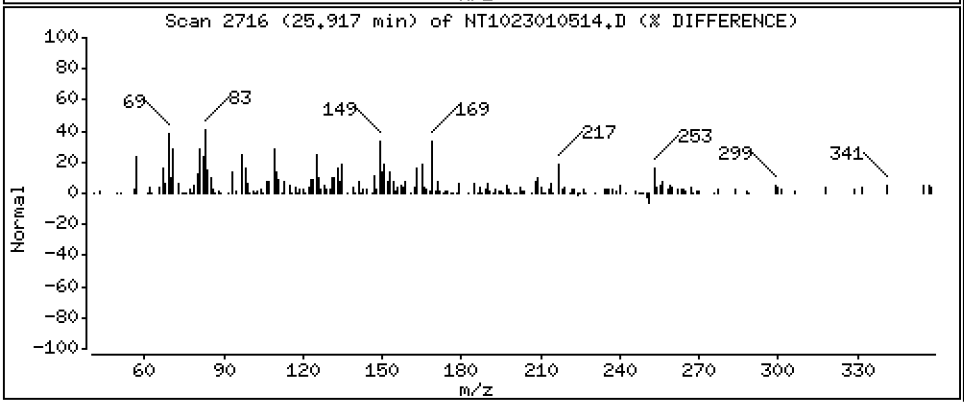
187 Total Benzofluoranthenes

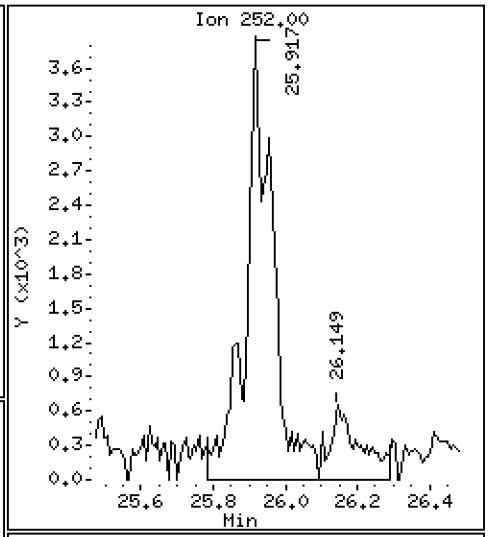
Concentration: 0.7199 ug/mL

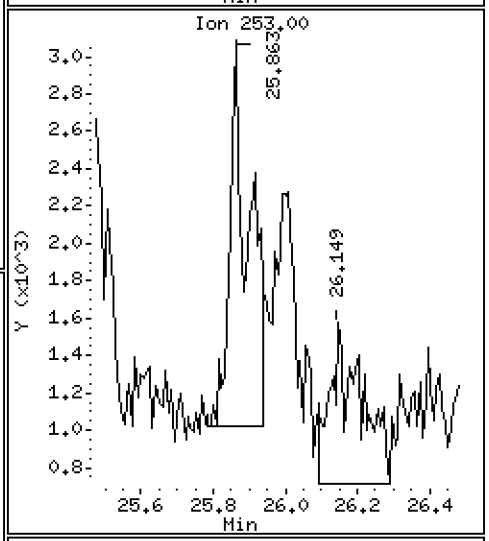


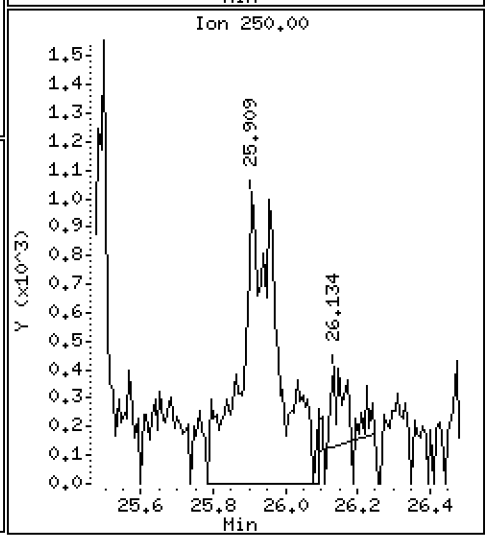












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010514.D
Lab Smp Id: 22L0246-12
Inj Date : 05-JAN-2023 21:44
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-12
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	145997	5.55037	5.550
$	2 Phenol-d5	99	9.012	9.012	(0.932)	174310	5.52889	5.529
	3 Phenol	94	9.028	9.036	(0.934)	4430	0.15026	0.1503
$	5 2-Chlorophenol-d4	132	9.313	9.321	(0.963)	180967	6.53744	6.537
	4 Bis(2-Chloroethyl)ether	93	9.028	9.205	(0.934)	263	0.00997	0.009968
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.669	9.685	(1.000)	80446	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	69986	4.05875	4.059
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.933	9.941	(1.027)	3612	0.26265	0.2626
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	9.933	10.158	(1.027)	3612	0.18193	0.1819
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	10.212	10.500	(1.056)	1816	0.16779	0.1678
	15 4-Methylphenol	108	10.414	10.422	(1.077)	12889	0.94000	0.9400
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.884)	90560	4.44470	4.445
	19 Nitrobenzene	77	10.756	10.810	(0.884)	1369	0.07690	0.07690
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.416	11.442	(0.938)	590	0.03617	0.03617
	22 2,4-Dimethylphenol	107	11.450	11.476	(0.941)	742	0.03144	0.03144
	23 Bis(2-Chloroethoxy)methane	93	11.645	11.671	(0.957)	483	0.02364	0.02364
	24 Benzoic acid	105	11.696	11.671	(0.961)	3032	0.31213	0.3121
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.169	12.185	(1.000)	305518	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	32406	0.48237	0.4824
	29 4-Chloroaniline	127	12.208	12.339	(1.003)	4431	0.17076	0.1708
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	13.283	13.291	(1.092)	256	0.01350	0.01350
	32 2-Methylnaphthalene	142	13.600	13.624	(1.118)	16883	0.31774	0.3177
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	213521	4.64446	4.644
	37	2-Chloronaphthalene	162	14.707	14.622	(0.931)	346	0.00842	0.008424
	38	2-Nitroaniline	65	14.846	14.862	(0.940)	162	0.02953	0.02953
	39	Dimethylphthalate	163	15.233	15.280	(0.965)	2053	0.05486	0.05486
	40	Acenaphthylene	152	15.481	15.497	(0.980)	9980	0.16913	0.1691
	41	2,6-Dinitrotoluene	165	15.419	15.427	(0.976)	1234	0.14518	0.1452
*	42	Acenaphthene-d10	164	15.790	15.814	(1.000)	124094	4.00000	
	43	3-Nitroaniline	138	15.667	15.721	(0.992)	702	0.11981	0.1198
	44	Acenaphthene	153	15.852	15.876	(1.004)	5610	0.17132	0.1713
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	16.185	16.208	(1.025)	9550	0.19193	0.1919
	47	4-Nitrophenol	109	16.015	16.038	(1.014)	4043	0.91118	0.9112
	48	2,4-Dinitrotoluene	165	16.200	16.247	(1.026)	196	0.01718	0.01718
	50	Diethylphthalate	149	16.718	16.742	(1.059)	14671	0.37171	0.3717
	49	Fluorene	166	16.896	16.919	(1.070)	21643	0.29628	0.2963
	51	4-Chlorophenyl-phenylether	204	16.881	16.896	(1.069)	448	0.01909	0.01909
	52	4-Nitroaniline	138	16.958	17.004	(1.074)	199	0.01231	0.01231
	53	4,6-Dinitro-2-methylphenol	198	17.089	17.097	(0.907)	93	0.01161	0.01161
	54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.908)	4109	0.11664	0.1166
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	20814	8.09609	8.096
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.849	18.865	(1.000)	190326	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.002)	41675	0.90254	0.9025
	61	Anthracene	178	18.989	19.005	(1.007)	9133	0.20261	0.2026
	62	Carbazole	167	19.306	19.322	(1.024)	2628	0.05410	0.05410
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	5576	0.08750	0.08750
	64	Fluoranthene	202	21.279	21.271	(0.892)	33835	1.01391	1.014
	65	Pyrene	202	21.681	21.689	(0.909)	33391	0.99654	0.9965
$	66	Terphenyl-d14	244	21.937	21.952	(0.920)	107580	5.26756	5.268
	67	Butylbenzylphthalate	149	22.765	22.851	(0.954)	4125	0.23057	0.2306
	68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	10227	0.44834	0.4483
*	69	Chrysene-d12	240	23.857	23.873	(1.000)	84284	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.756	23.780	(0.996)	103	0.01230	0.01230
	71	Chrysene	228	23.903	23.919	(1.002)	10012	0.47990	0.4799
	72	bis(2-Ethylhexyl)phthalate	149	23.849	23.865	(0.957)	9992	0.24253	0.2425
*	134	Di-n-octylphthalate-d4	153	24.910	24.926	(1.000)	268276	4.00000	
	73	Di-n-octylphthalate	149	24.871	24.941	(0.998)	3171	0.05111	0.05111
	74	Benzo(b)fluoranthene	252	25.916	25.932	(0.966)	7002	0.23644	0.2364
	75	Benzo(k)fluoranthene	252	25.955	25.978	(0.968)	6336	0.21959	0.2196
	76	Benzo(a)pyrene	252	26.892	26.691	(1.003)	348849	12.3529	12.35
*	77	Perylene-d12	264	26.822	26.822	(1.000)	82213	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.938	29.946	(1.116)	2402	0.10821	0.1082
	79	Dibenzo(a,h)anthracene	278	29.954	29.970	(1.117)	374	0.02144	0.02144
	80	Benzo(g,h,i)perylene	276	30.886	30.886	(1.152)	5038	0.27509	0.2751
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.028	9.128	(0.934)	263	0.00953	0.009528
	93	Benzidine	184	21.496	21.480	(0.901)	433	0.02798	0.02798
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	13.825	13.848	(1.136)	13944	0.26857	0.2686
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.228	17.228	(1.091)	462	0.00944	0.009440

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.916	25.978	(0.966)	20187	0.71991	0.7199
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010514.D
Lab Smp Id: 22L0246-12
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	80446	-1.57
27 Naphthalene-d8	307034	153517	614068	305518	-0.49
42 Acenaphthene-d10	140557	70279	281114	124094	-11.71
59 Phenanthrene-d10	243620	121810	487240	190326	-21.88
69 Chrysene-d12	144852	72426	289704	84284	-41.81
134 Di-n-octylphthala	387178	193589	774356	268276	-30.71
77 Perylene-d12	106683	53342	213366	82213	-22.94

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.86	-0.07
134 Di-n-octylphthala	24.93	24.43	25.43	24.91	-0.06
77 Perylene-d12	26.82	26.32	27.32	26.82	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010514.D

Lab ID: 22L0246-12
nt10.i, ABN.m, 05-JAN-2023 21:44

RT	CO-ELUTION COMPOUNDS
9.933	2-Methylphenol and Benzyl alcohol

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.934	0.950	-0.0168	Bis(2-Chloroethyl)ether
1.027	1.049	-0.0216	2-Methylphenol
1.056	1.084	-0.0280	N-Nitroso-di-n-propylamine
1.003	1.013	-0.0095	4-Chloroaniline
0.931	0.925	0.0068	2-Chloronaphthalene
1.003	0.995	0.0075	Benzo(a)pyrene
0.934	0.943	-0.0089	Aniline

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810F

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-13 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010515.D
% Solids:	53.56	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 22:22
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	18.71 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	498.95	500	100	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010515.D

Date : 05-JAN-2023 22:22

Client ID:

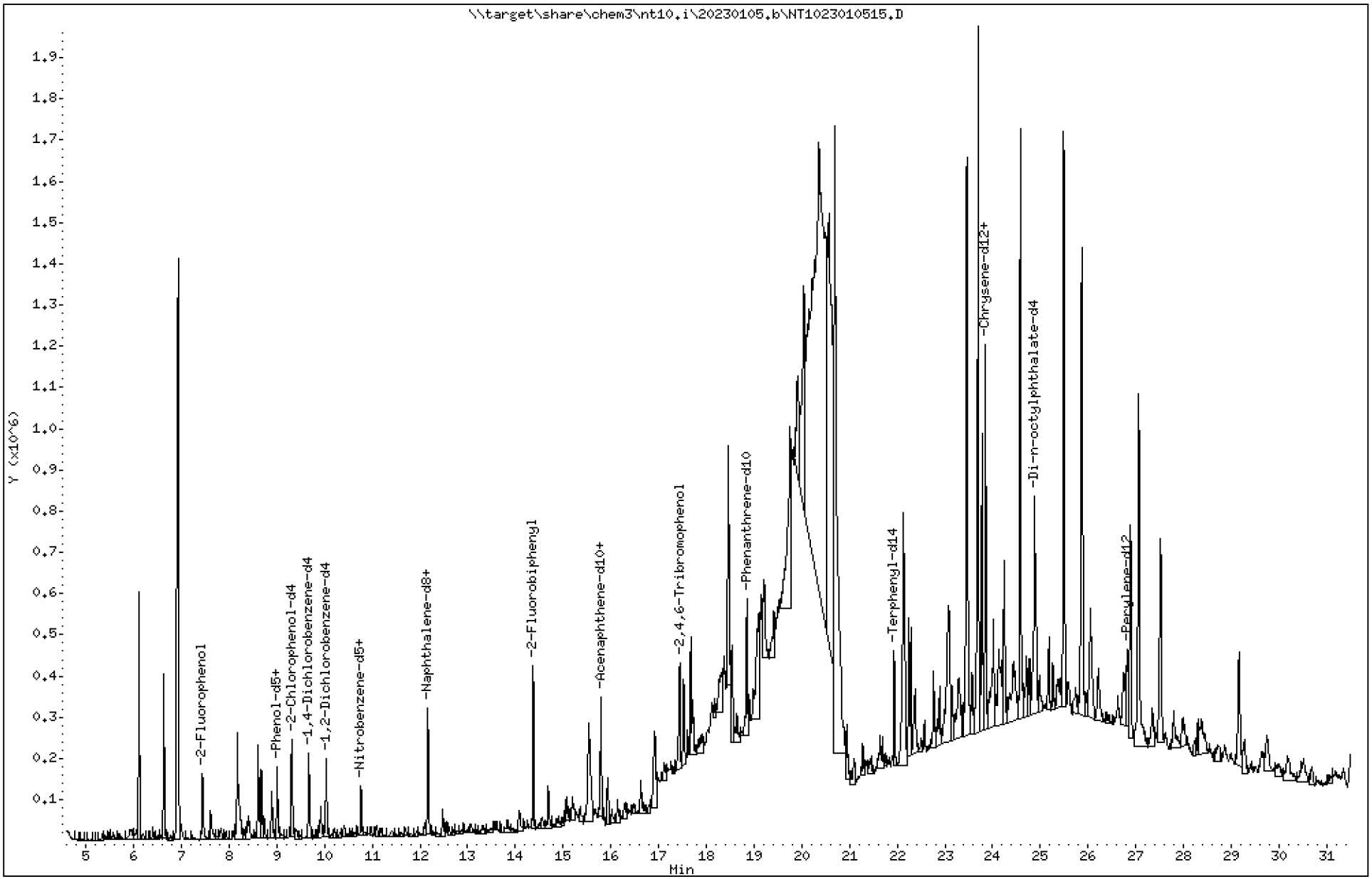
Instrument: nt10.i

Sample Info: 22L0246-13

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

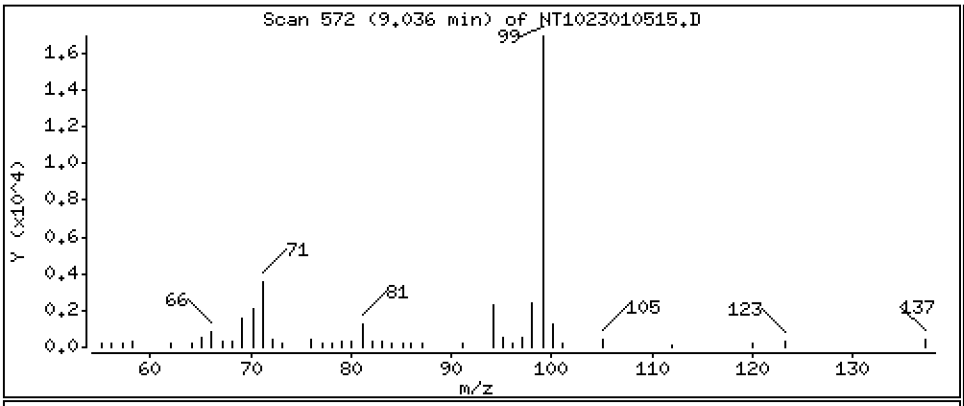
Operator: VTS

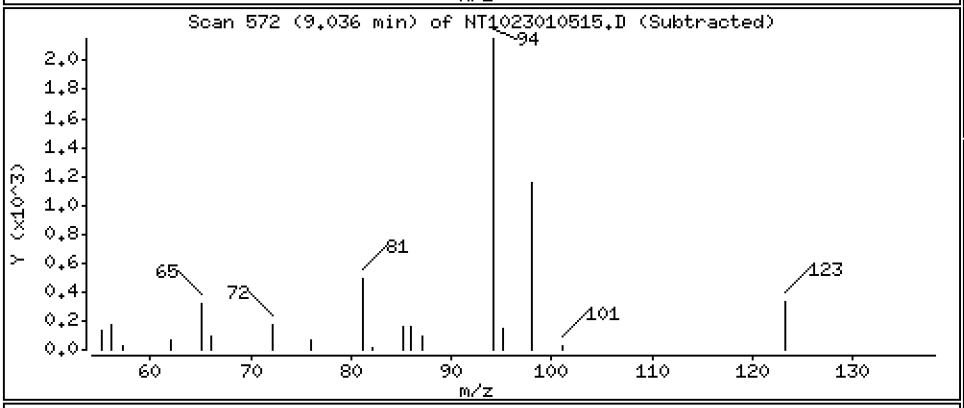
Column phase: ZB-5msi

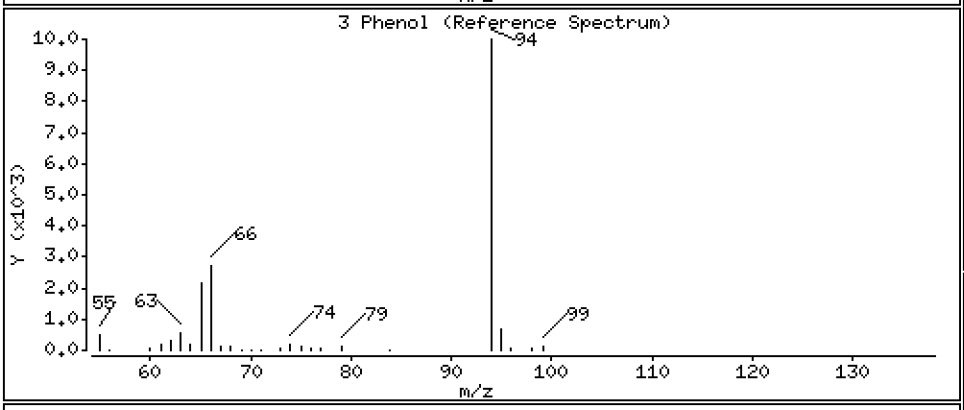
Column diameter: 0.25

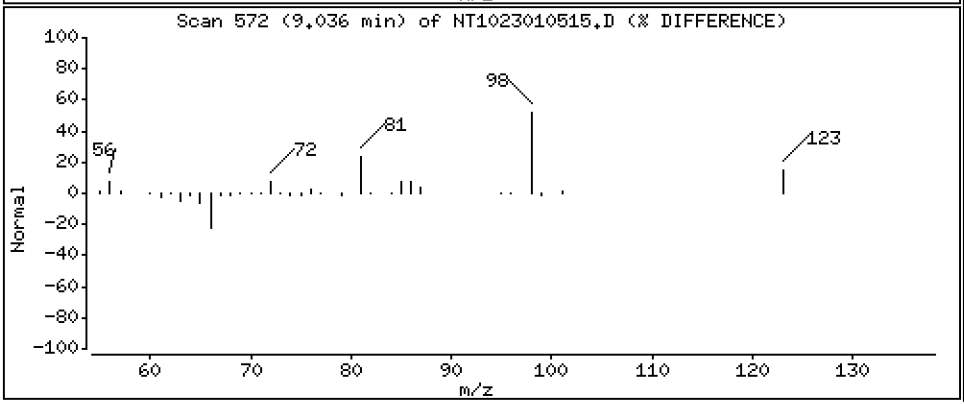
3 Phenol

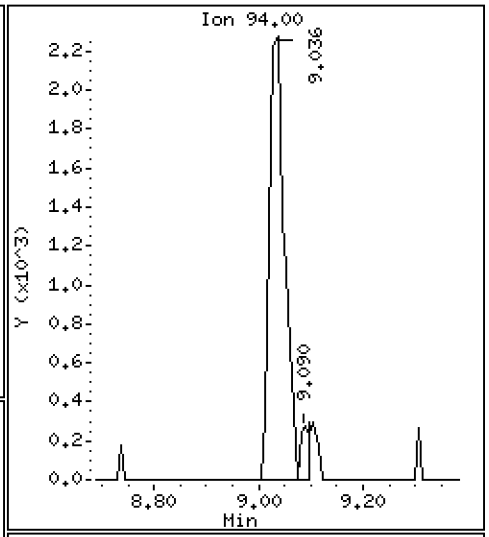
Concentration: 0.1505 ug/mL

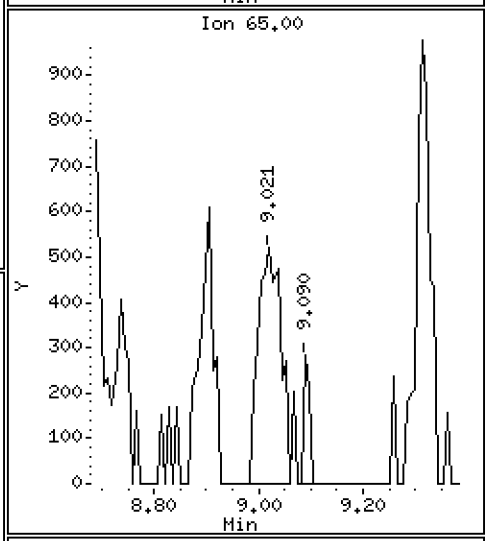


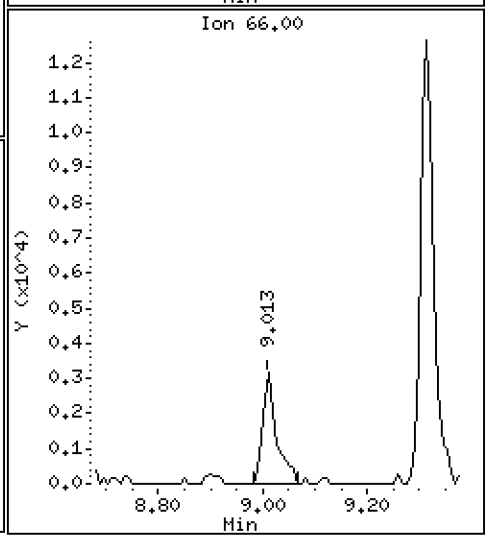












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

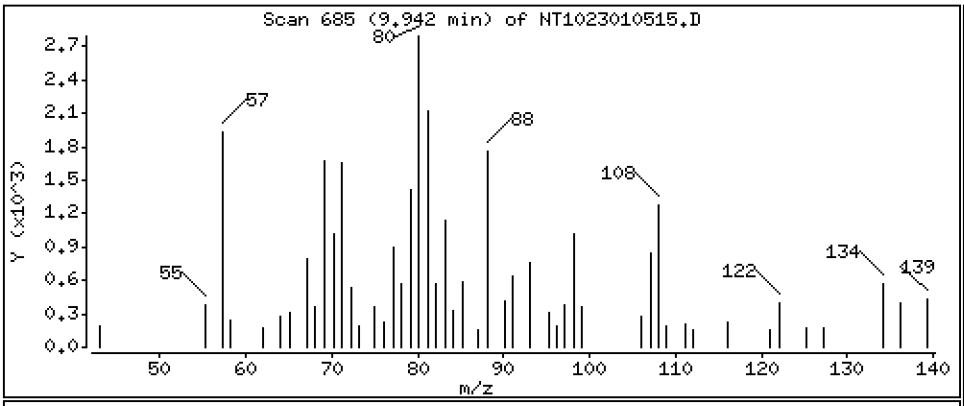
Operator: VTS

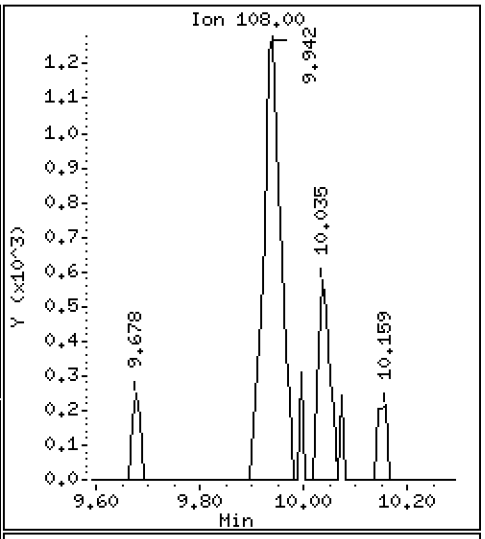
Column phase: ZB-5msi

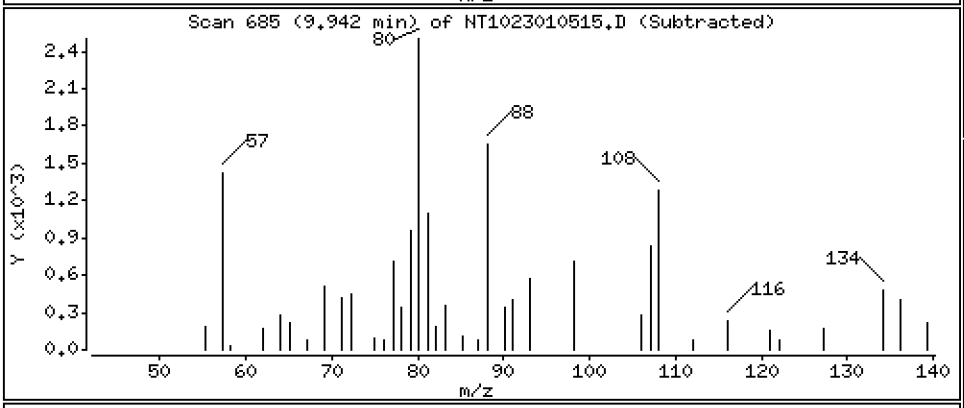
Column diameter: 0.25

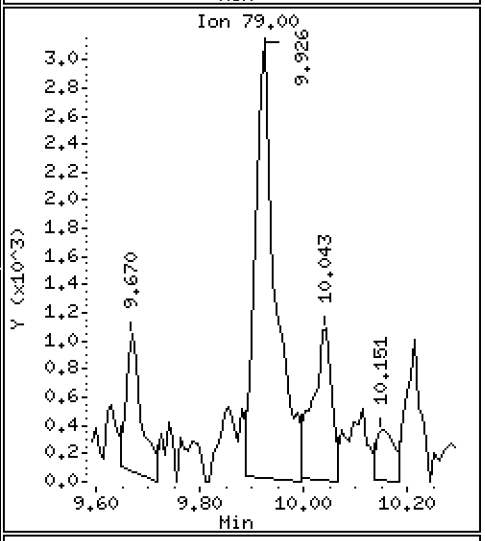
11 Benzyl alcohol

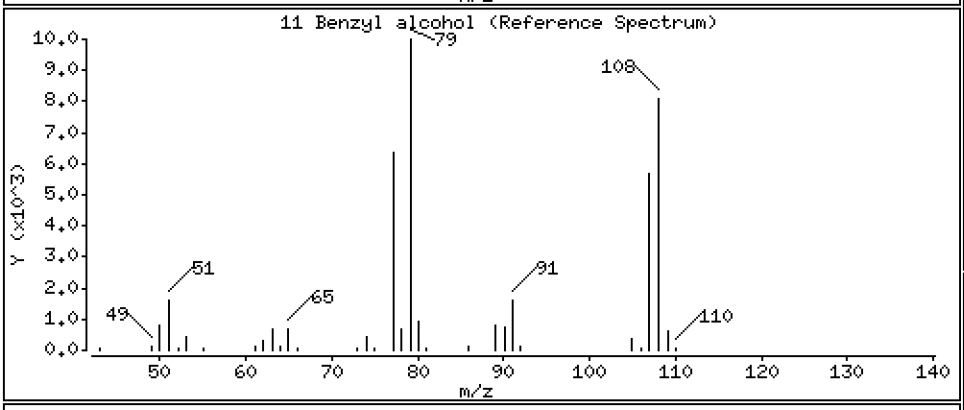
Concentration: 0.2401 ug/mL

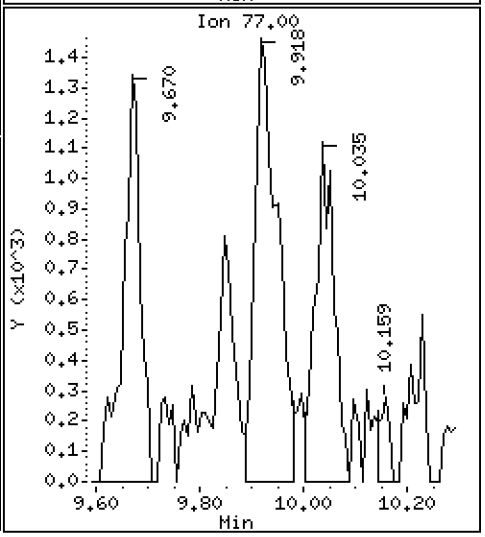


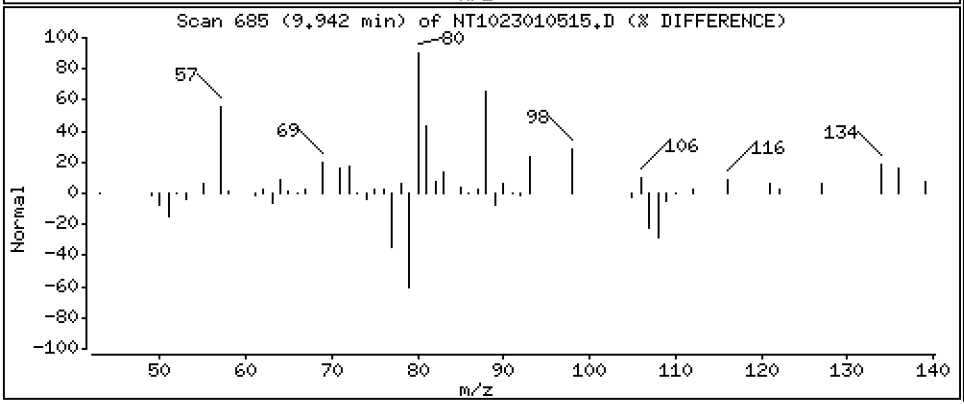












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

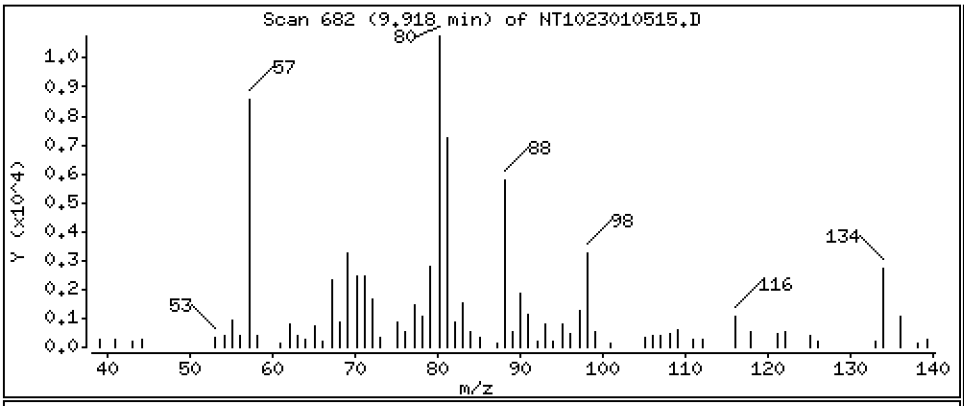
Operator: VTS

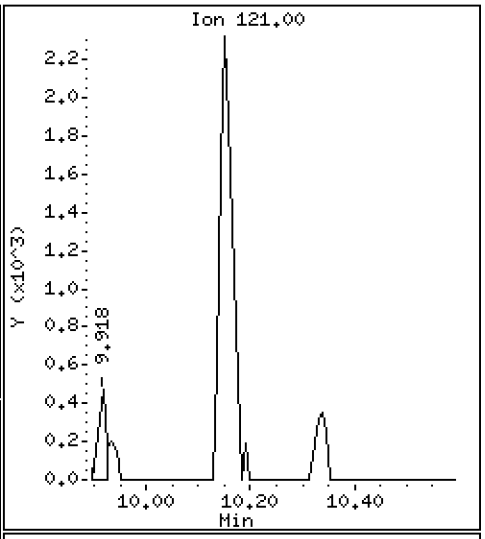
Column phase: ZB-5msi

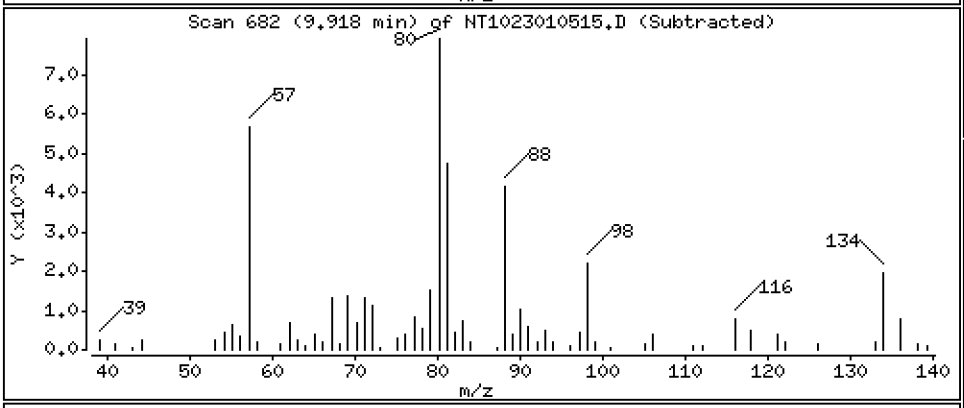
Column diameter: 0.25

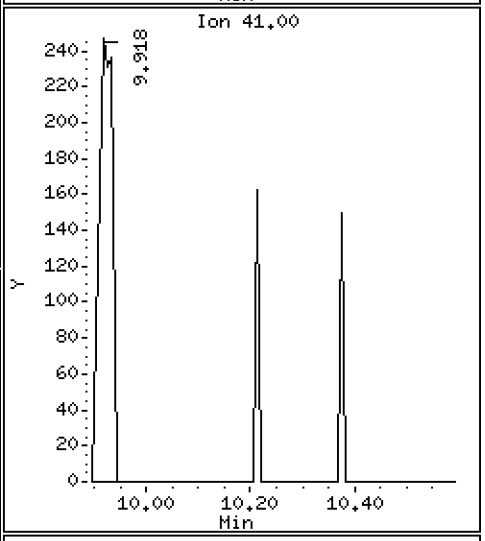
14 2,2'-oxybis(1-Chloropropane)

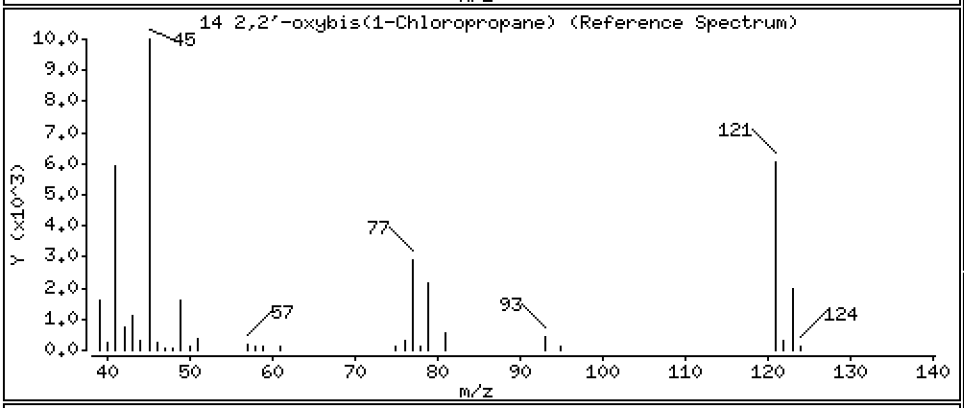
Concentration: 0.07597 ug/mL

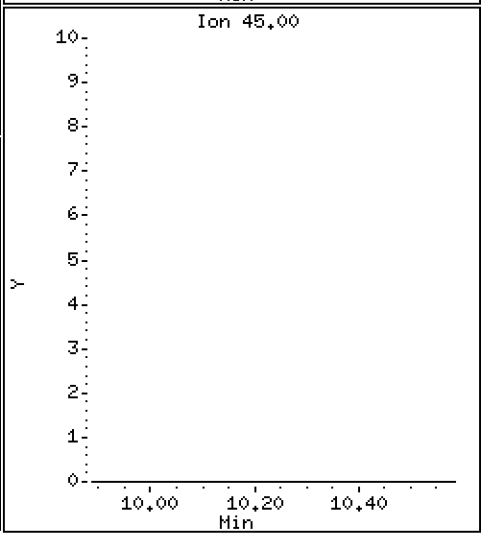


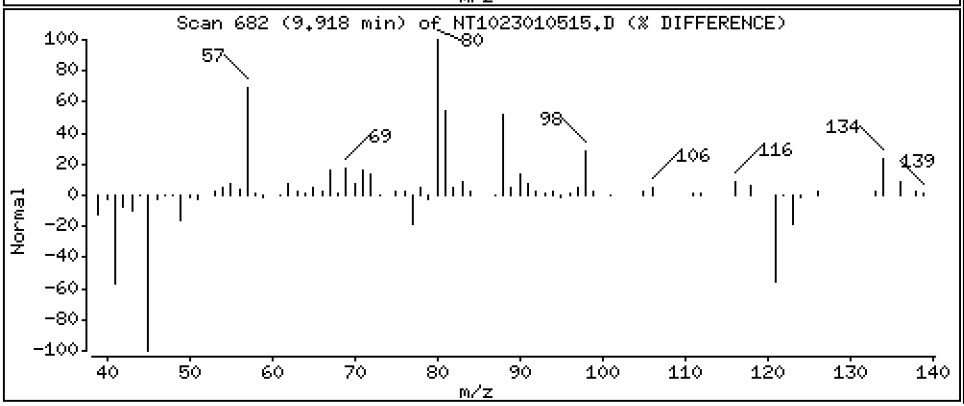












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

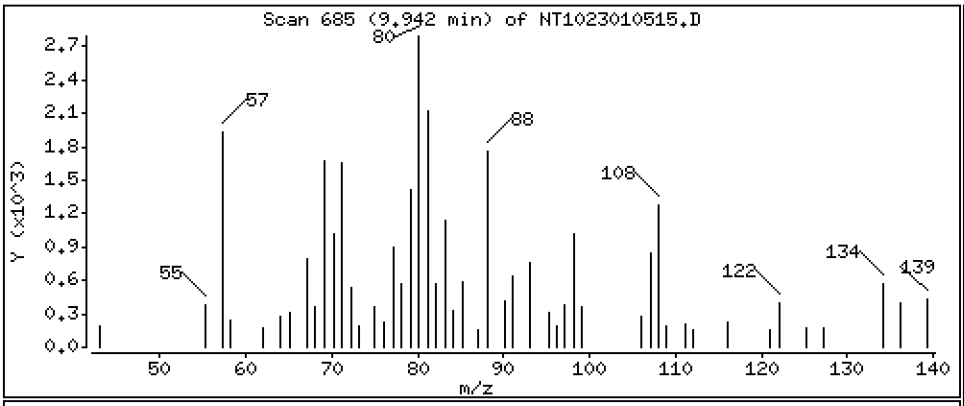
Operator: VTS

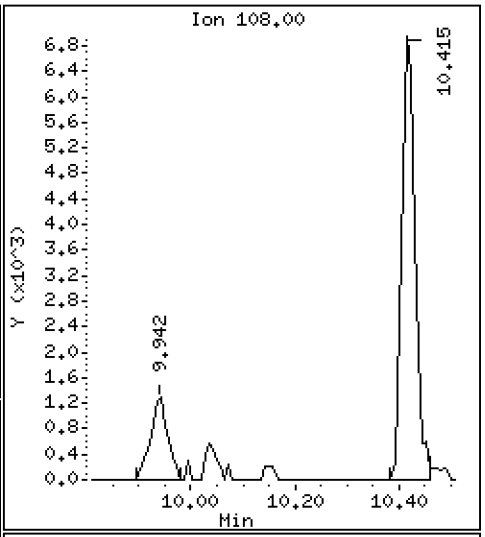
Column phase: ZB-5msi

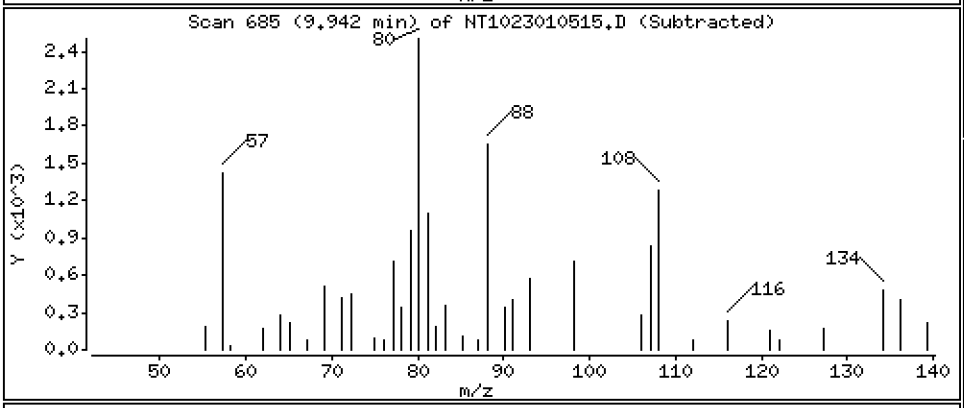
Column diameter: 0.25

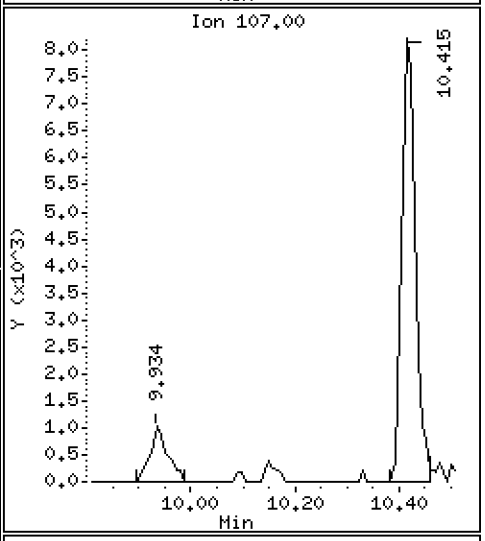
13 2-Methylphenol

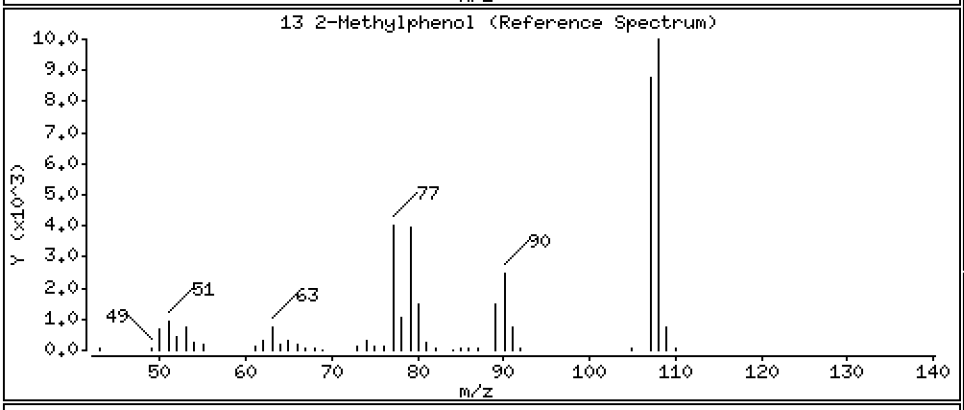
Concentration: 0.1663 ug/mL

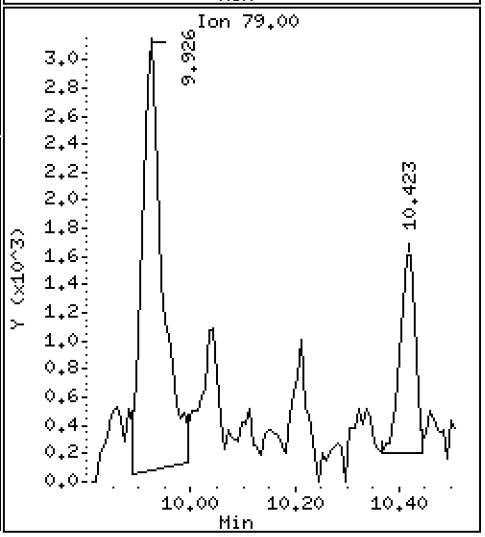


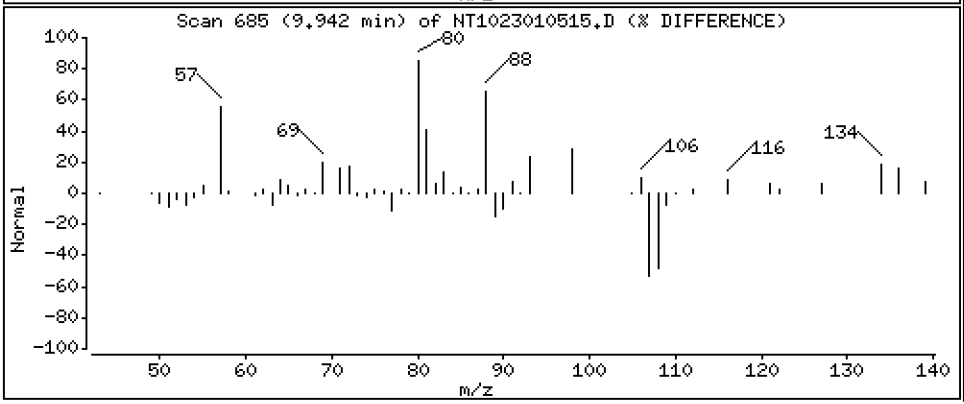












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

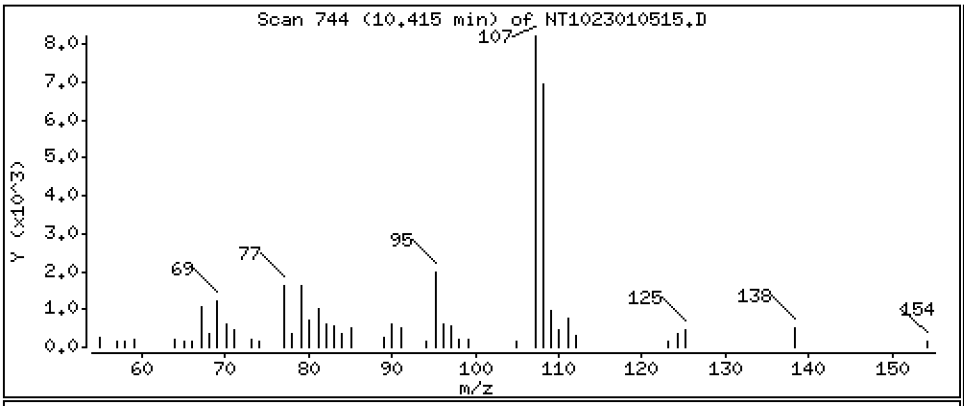
Operator: VTS

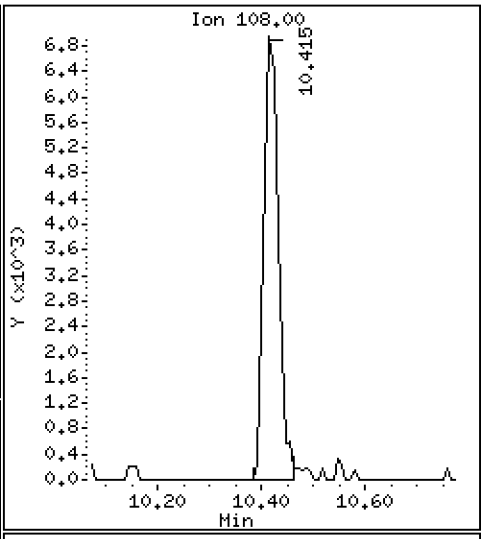
Column phase: ZB-5msi

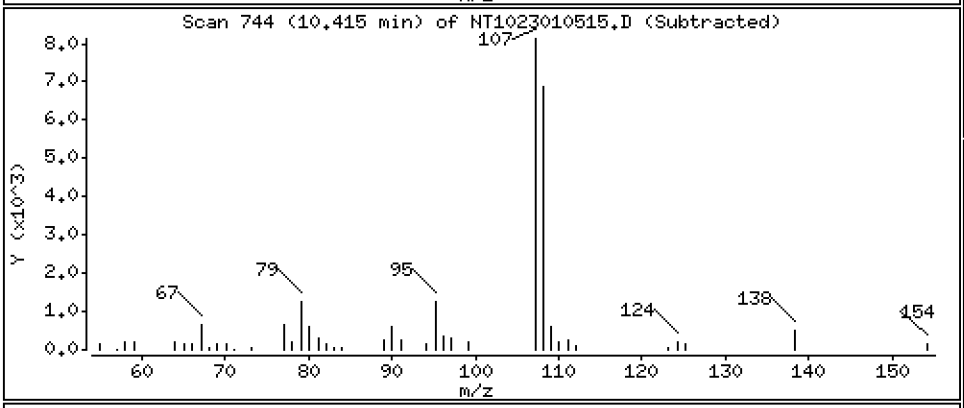
Column diameter: 0.25

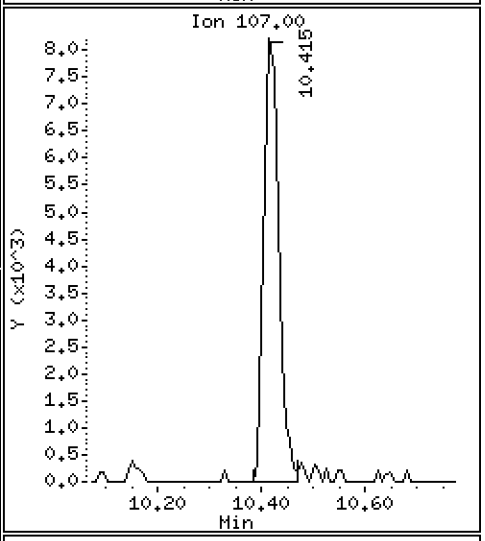
15 4-Methylphenol

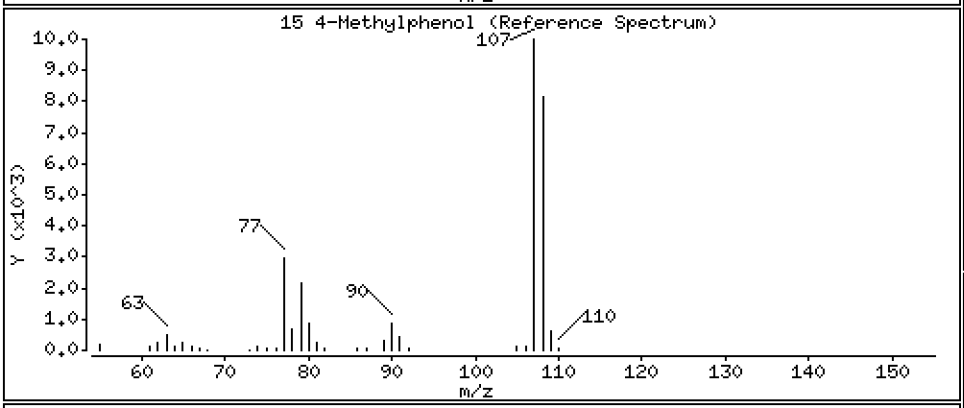
Concentration: 0.8872 ug/mL

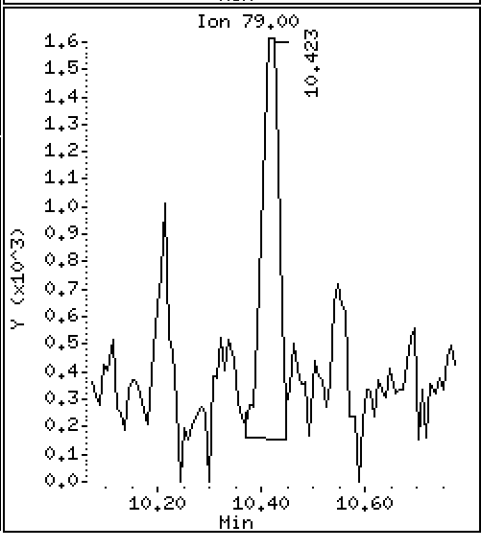


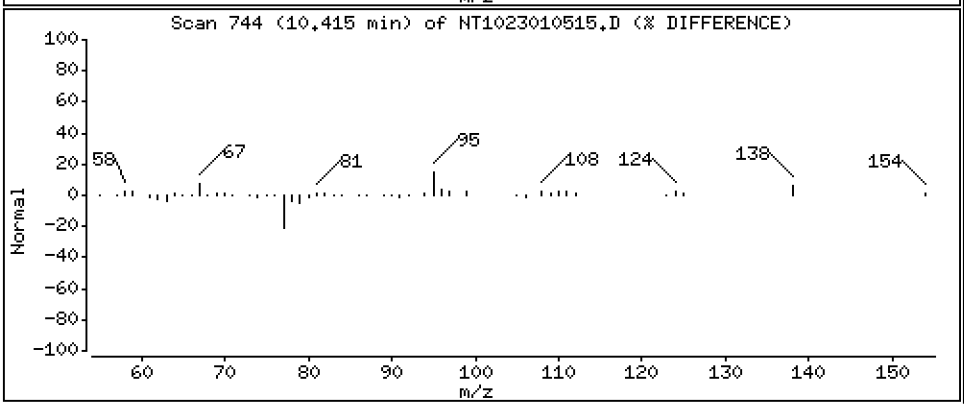












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

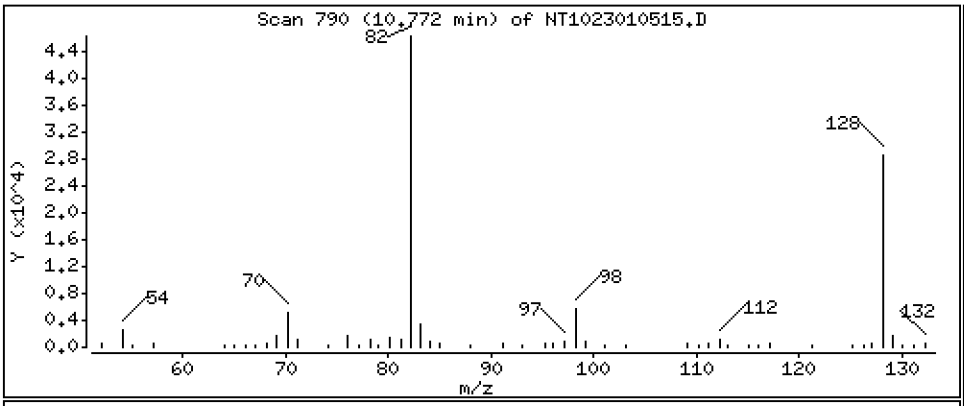
Operator: VTS

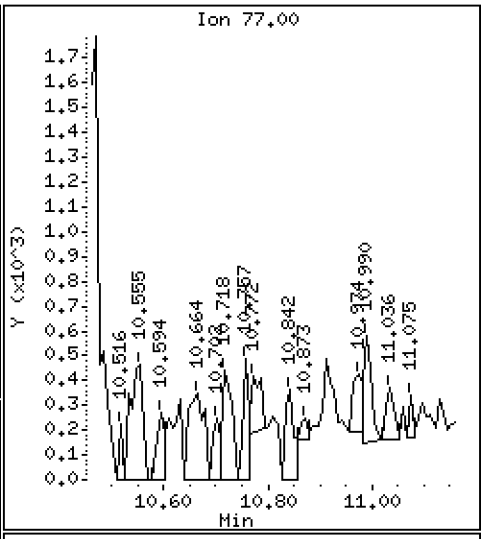
Column phase: ZB-5msi

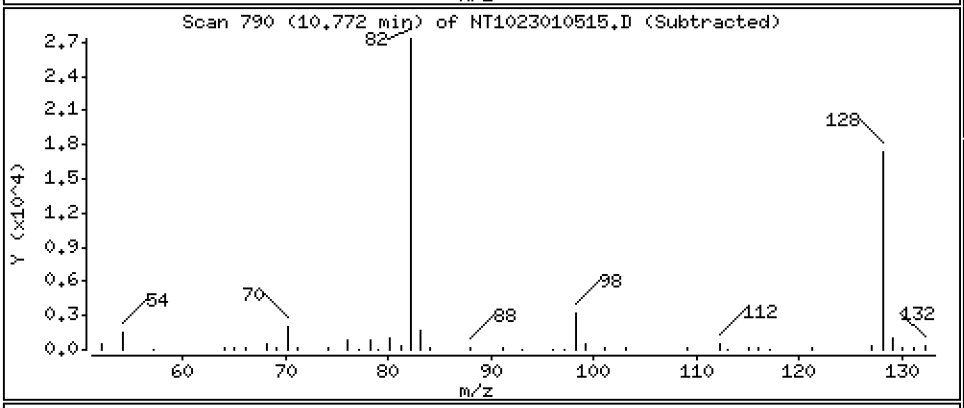
Column diameter: 0.25

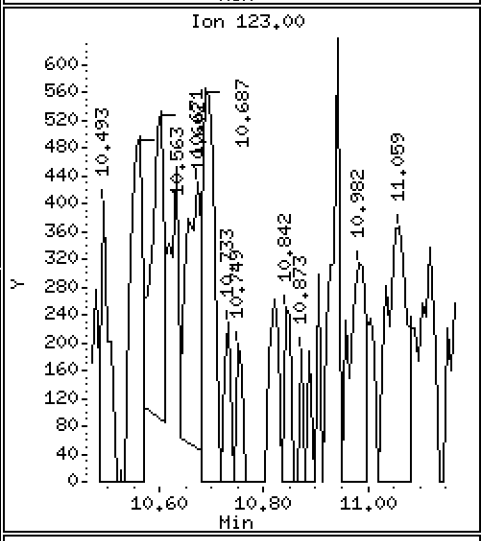
19 Nitrobenzene

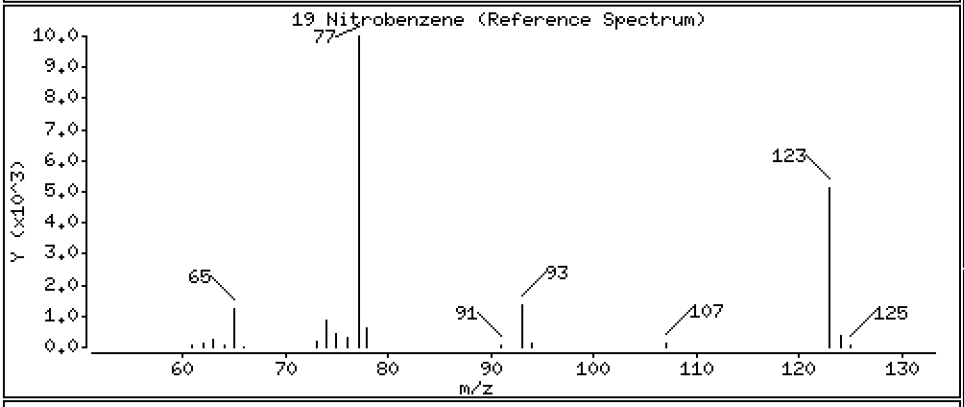
Concentration: 0.01744 ug/mL

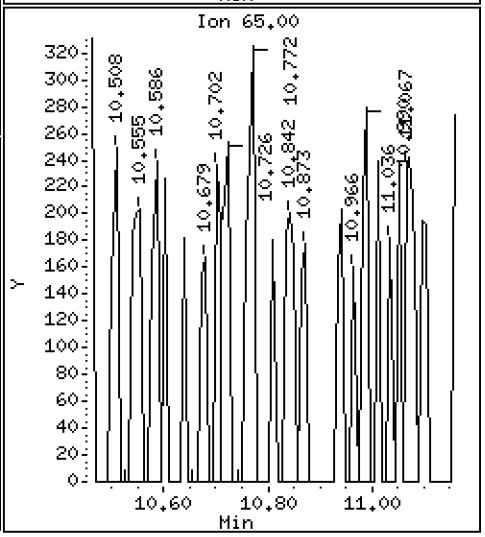


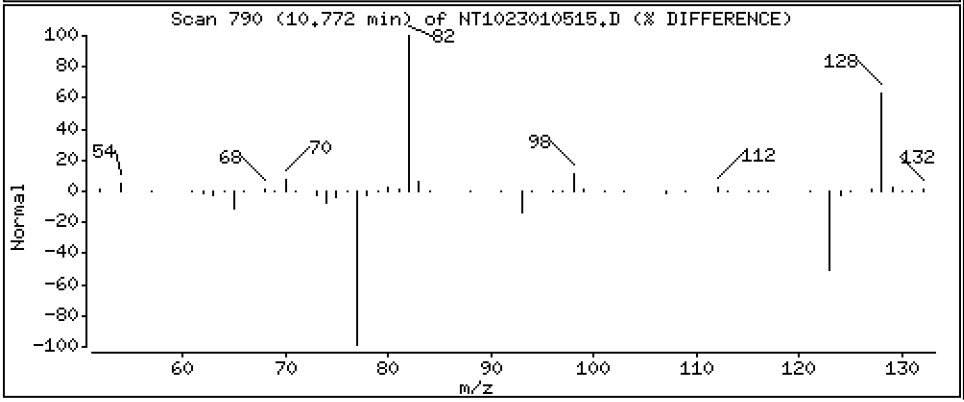












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

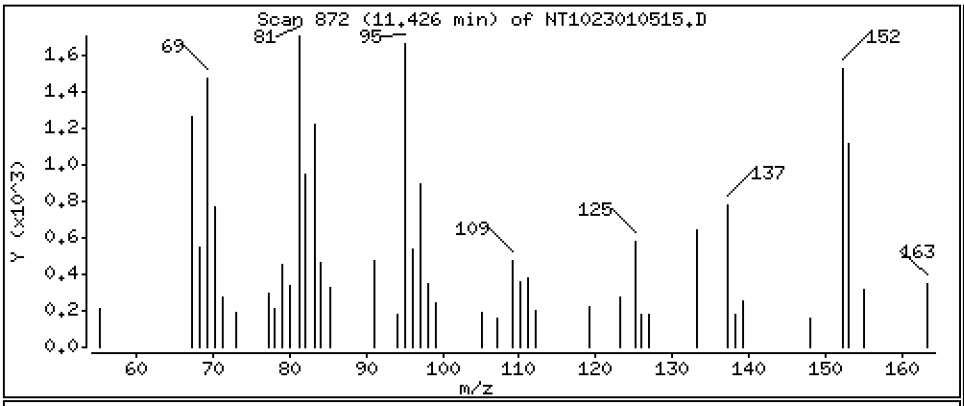
Operator: VTS

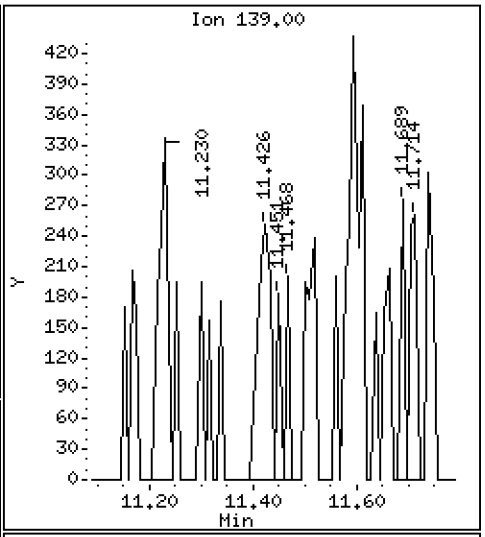
Column phase: ZB-5msi

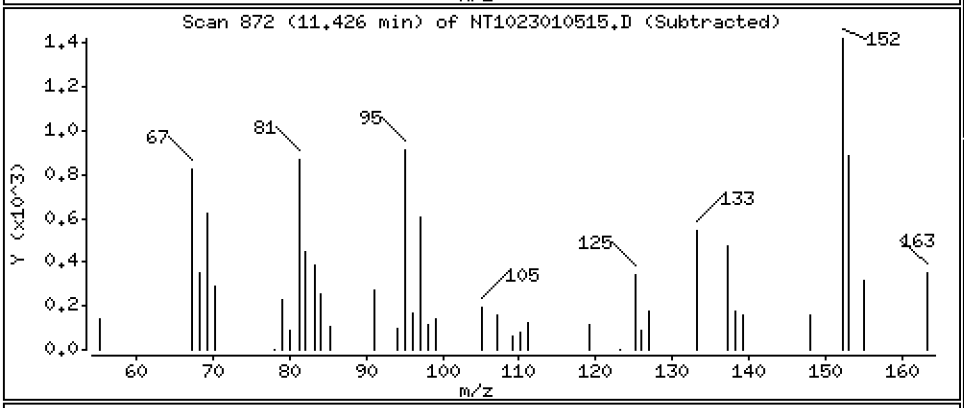
Column diameter: 0.25

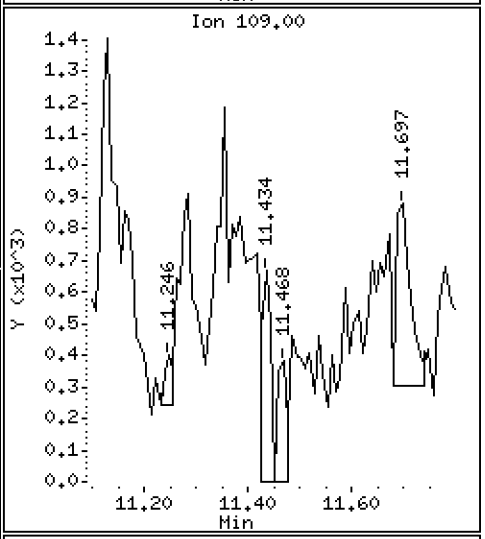
21 2-Nitrophenol

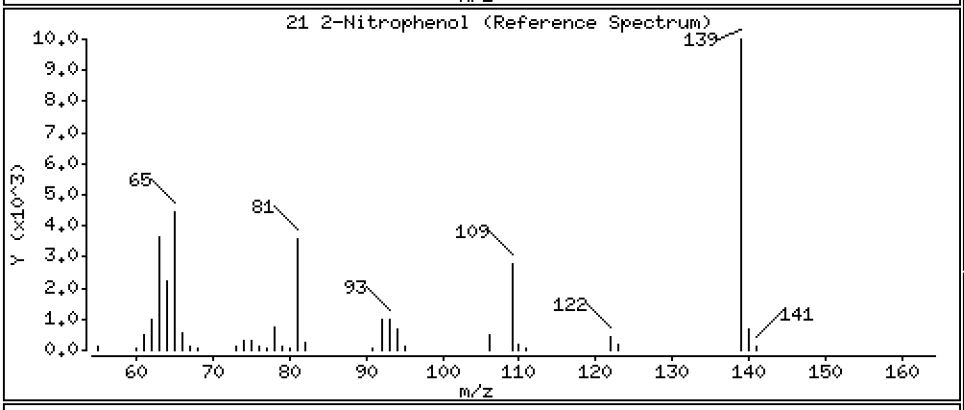
Concentration: 0.02923 ug/mL

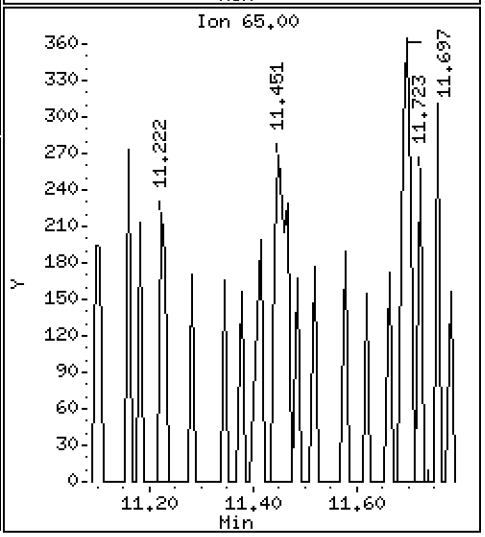


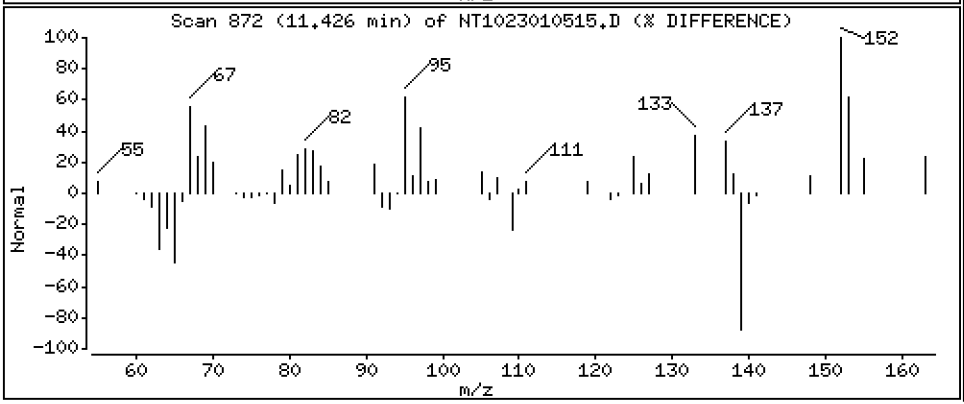












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

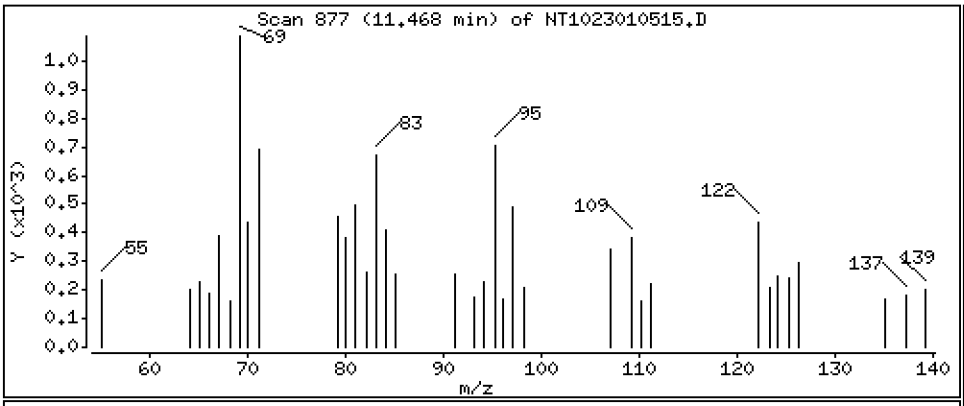
Operator: VTS

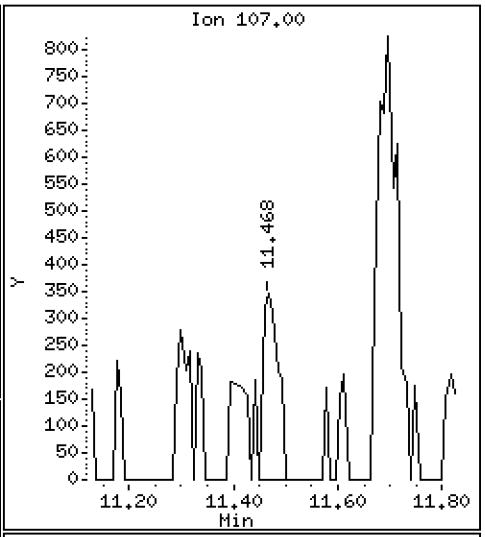
Column phase: ZB-5msi

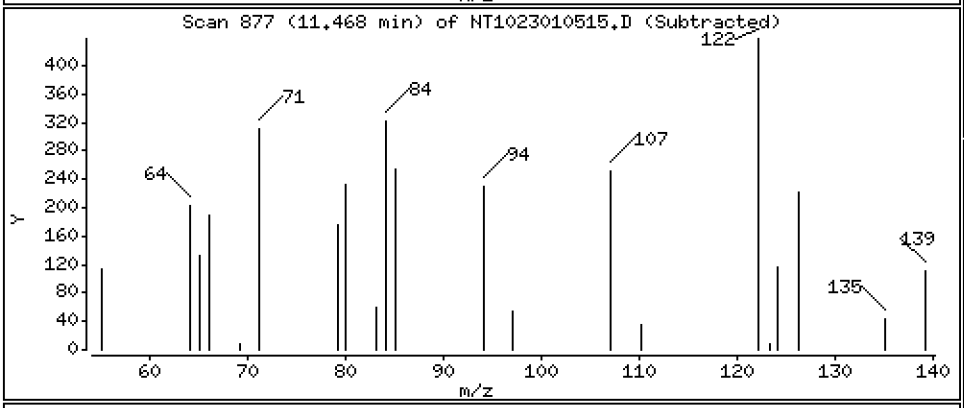
Column diameter: 0.25

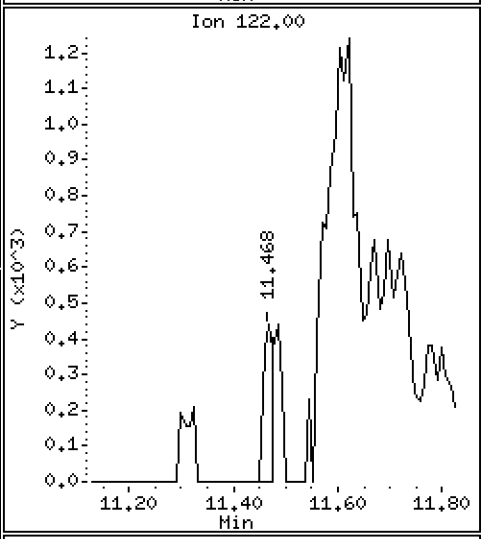
22 2,4-Dimethylphenol

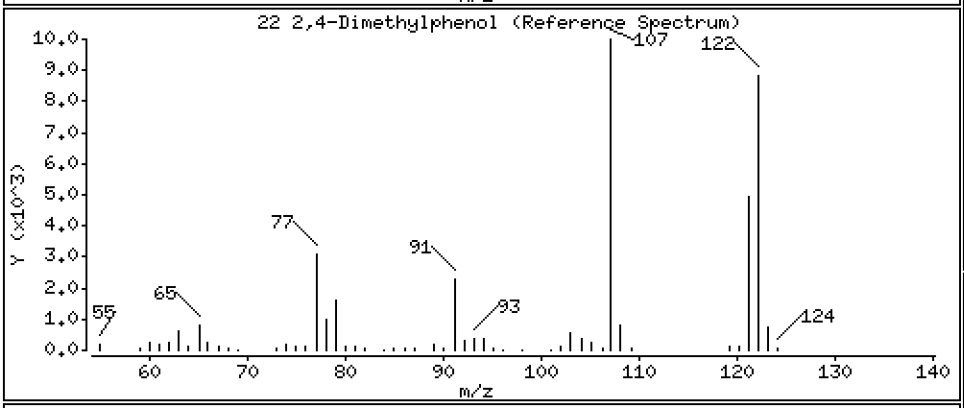
Concentration: 0.02865 ug/mL

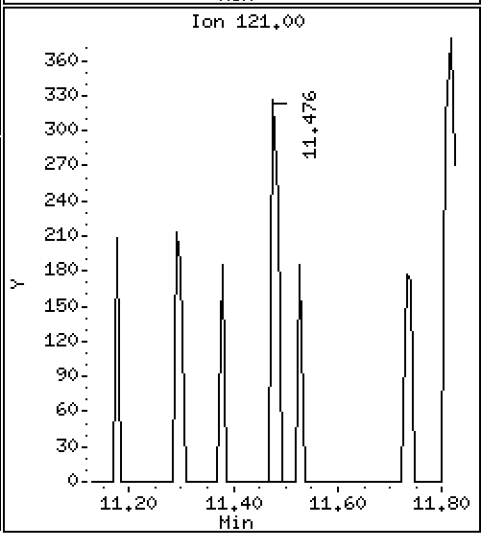


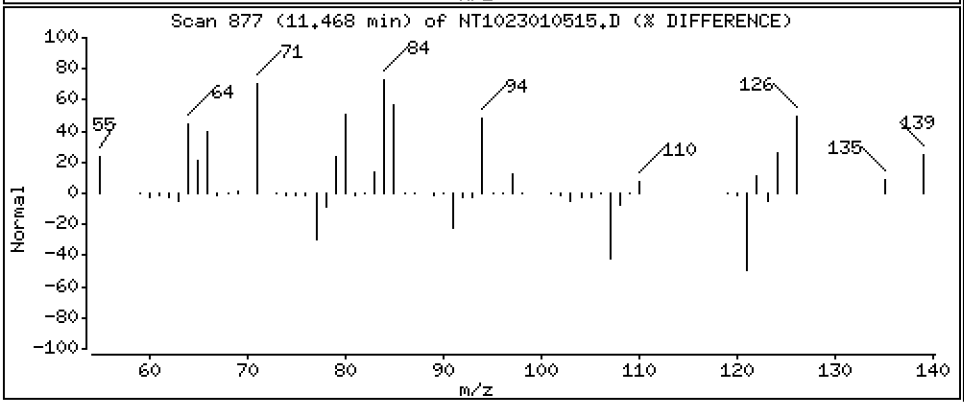












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

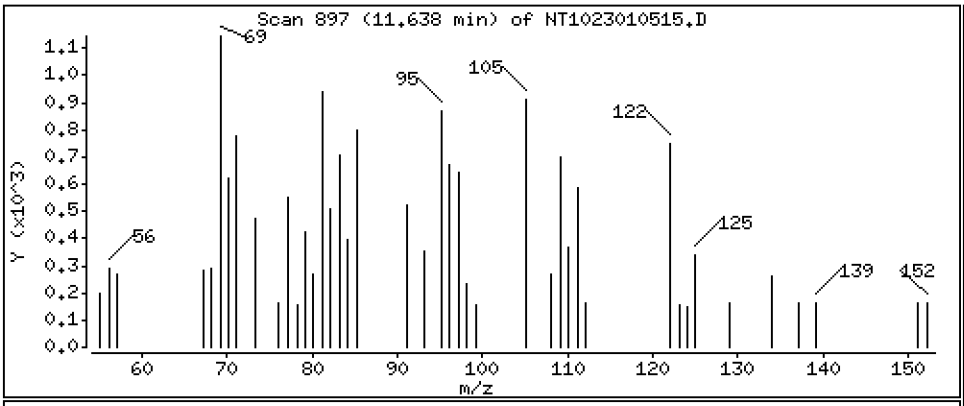
Operator: VTS

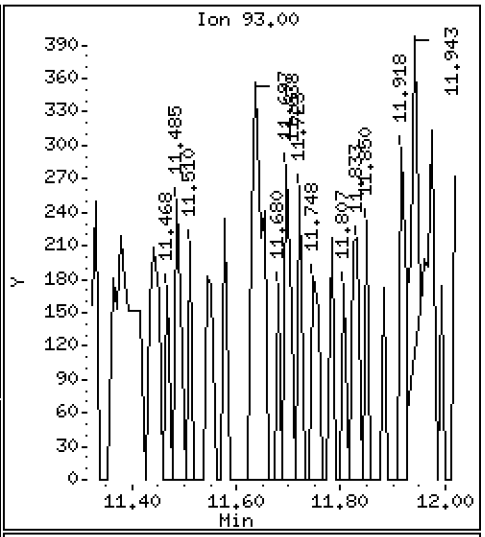
Column phase: ZB-5msi

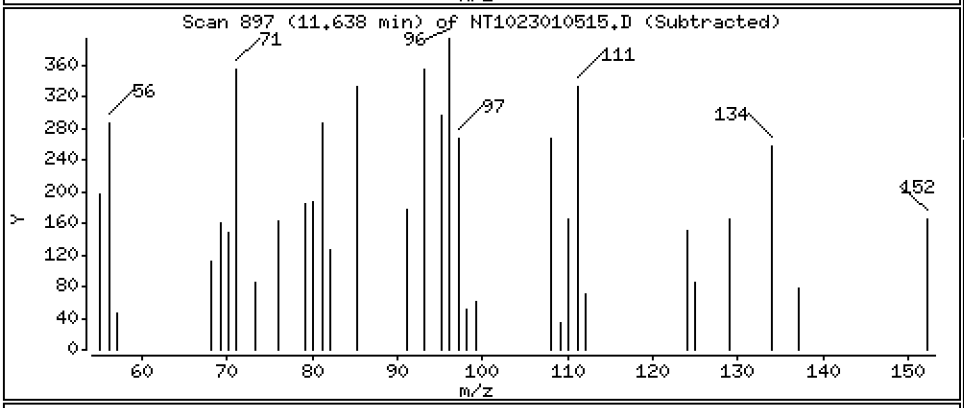
Column diameter: 0.25

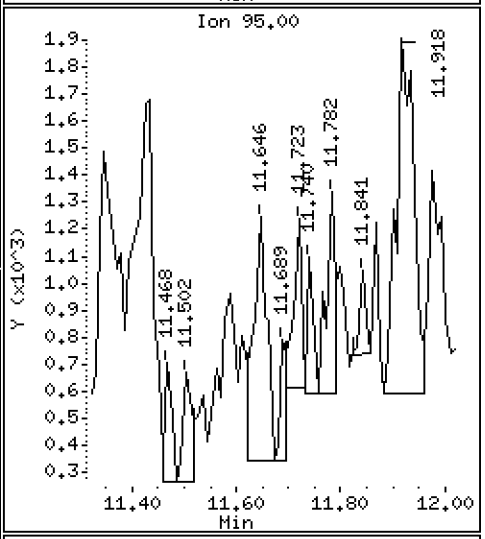
23 Bis(2-Chloroethoxy)methane

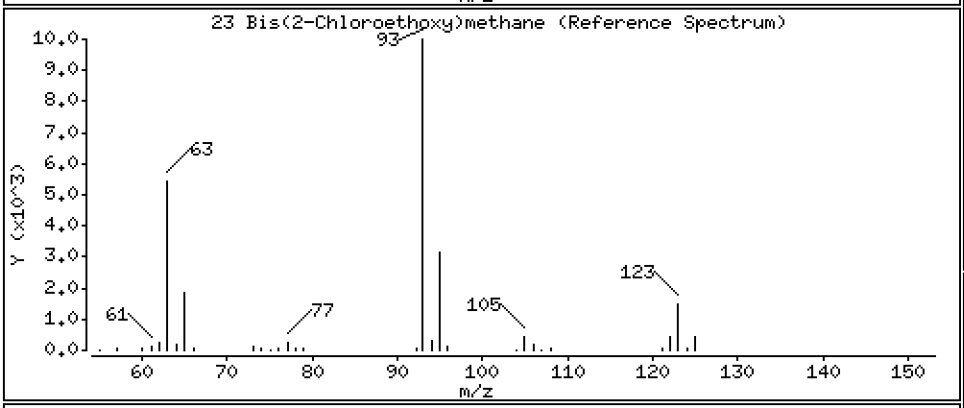
Concentration: 0.02524 ug/mL

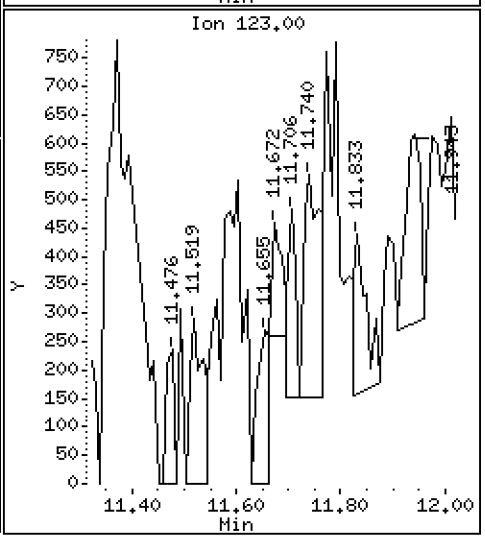


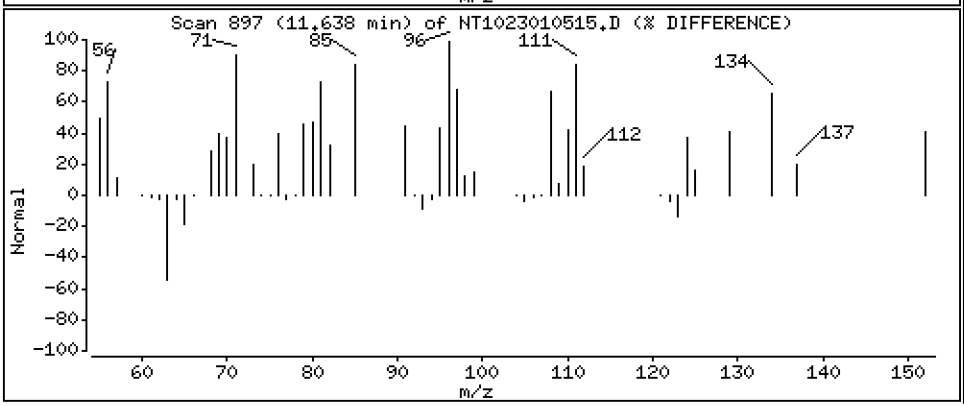












Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

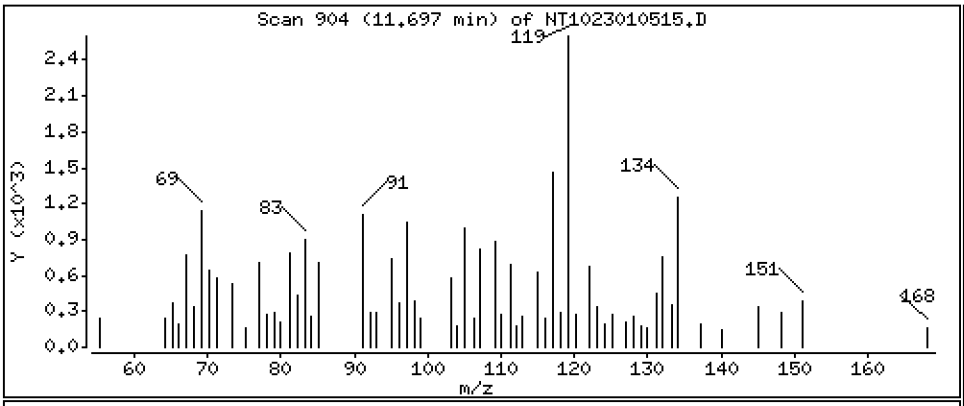
Operator: VTS

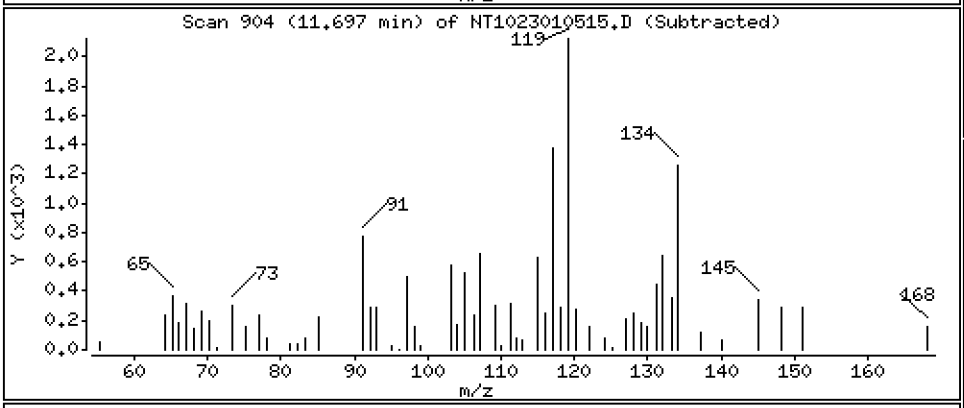
Column phase: ZB-5msi

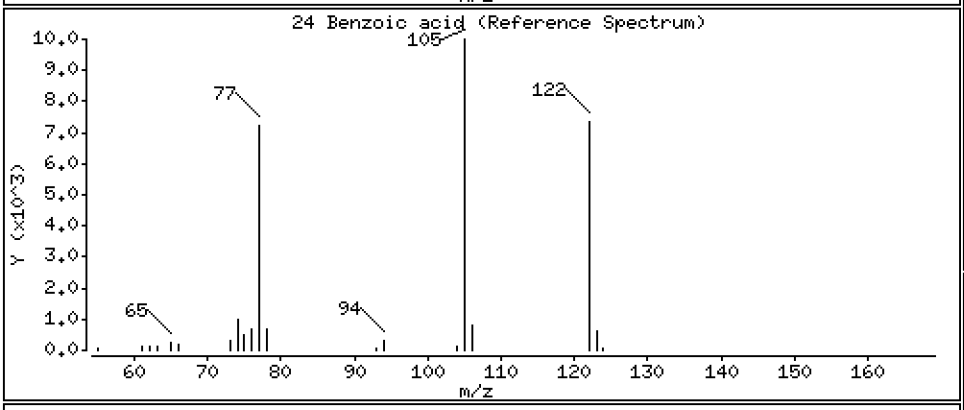
Column diameter: 0.25

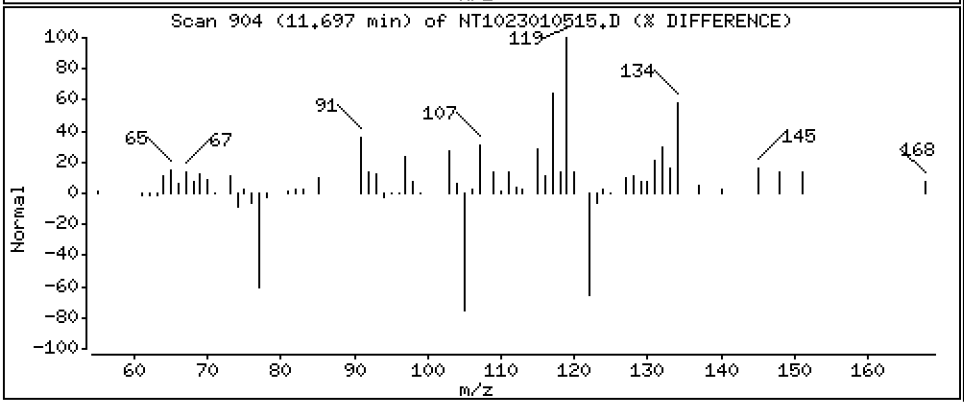
24 Benzoic acid

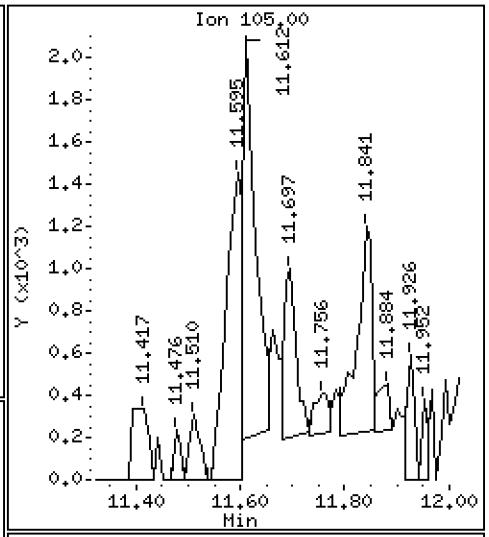
Concentration: 0.1356 ug/mL

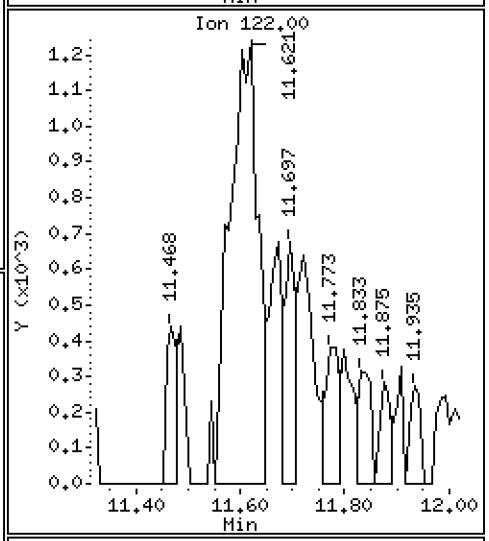


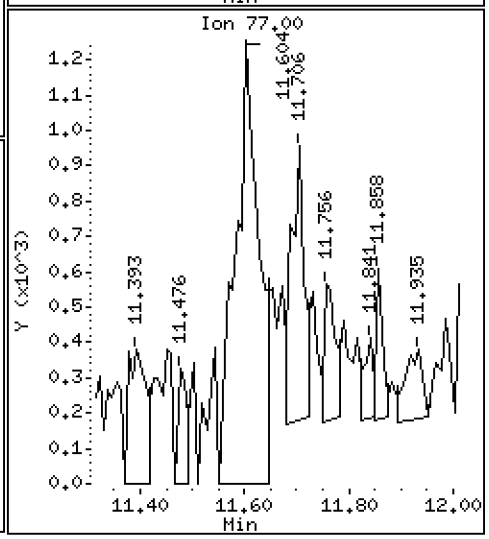












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010515.D

Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

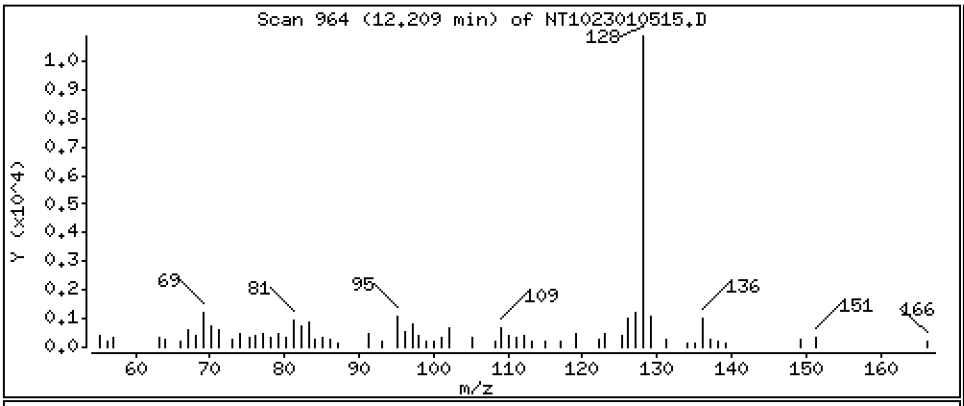
Operator: VTS

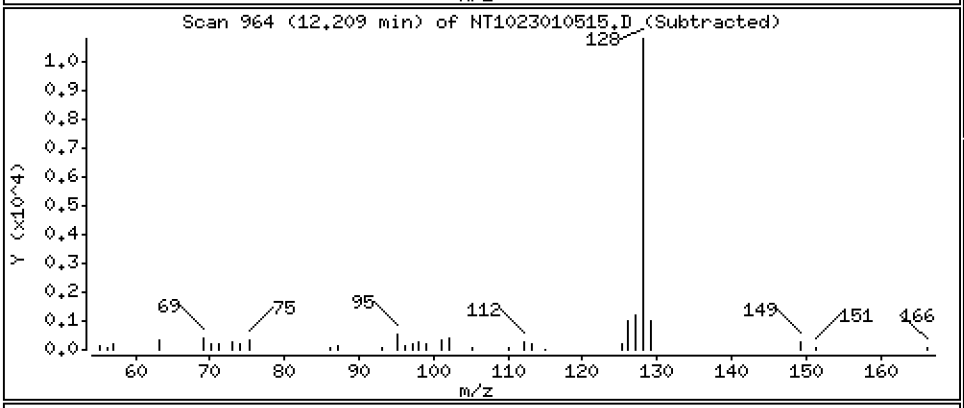
Column phase: ZB-5msi

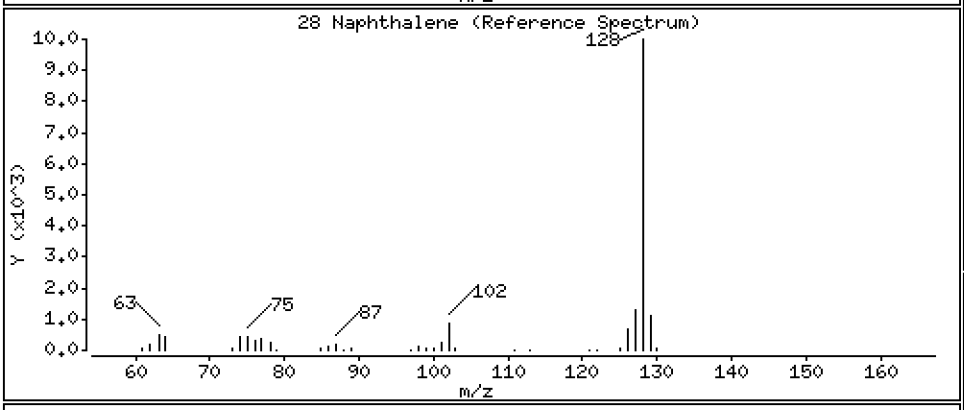
Column diameter: 0.25

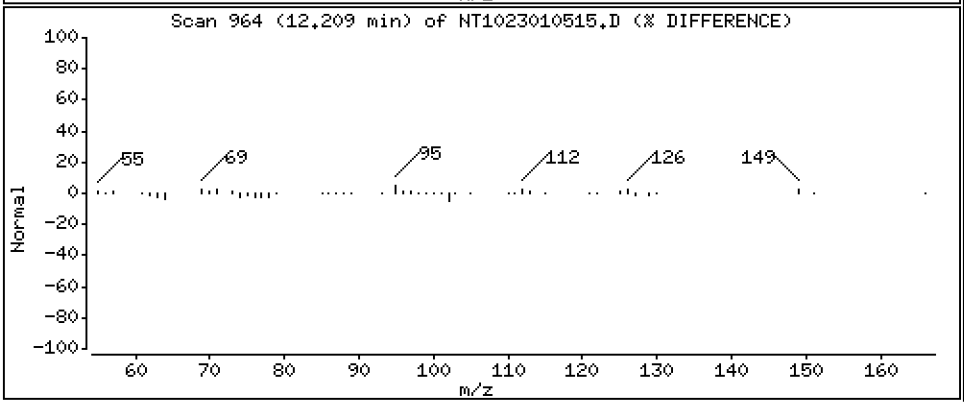
28 Naphthalene

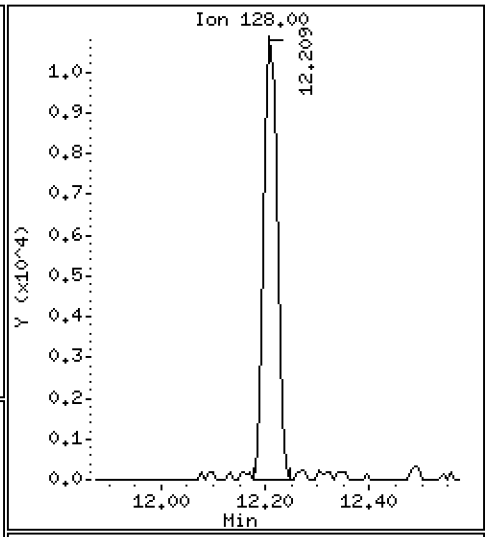
Concentration: 0.2682 ug/mL

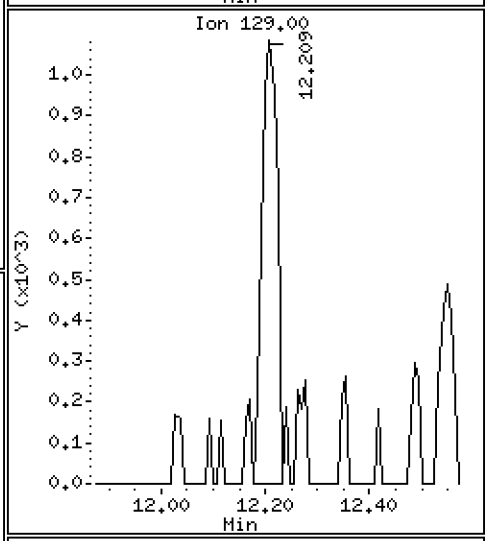


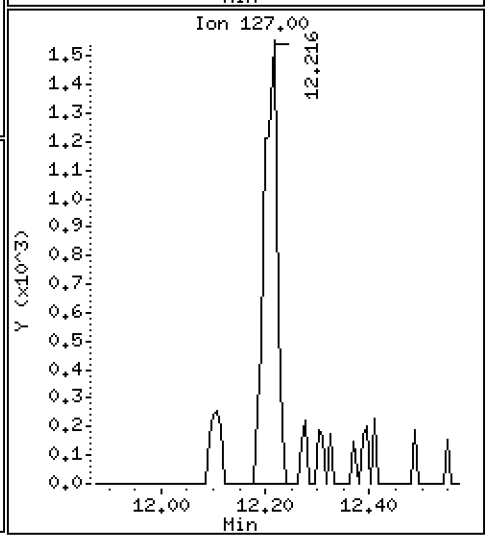












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

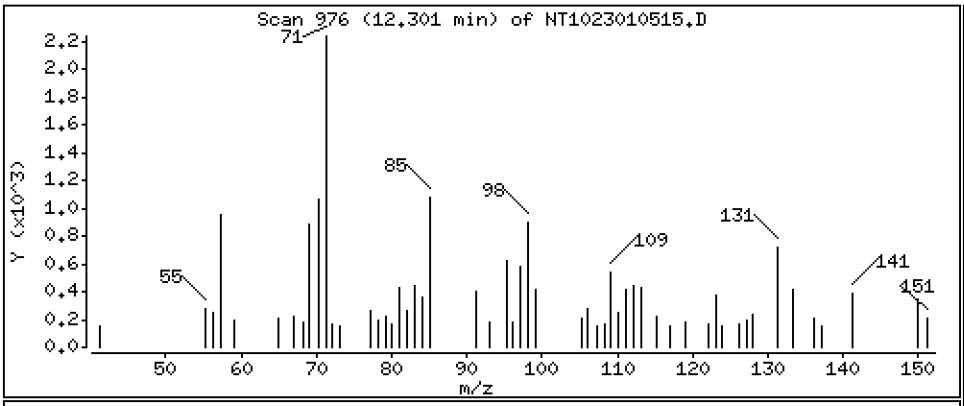
Operator: VTS

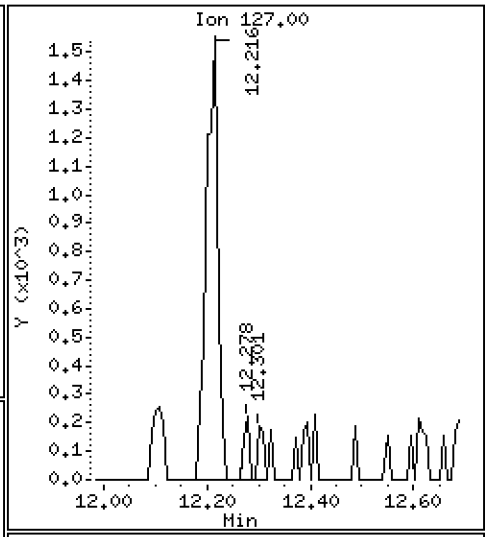
Column phase: ZB-5msi

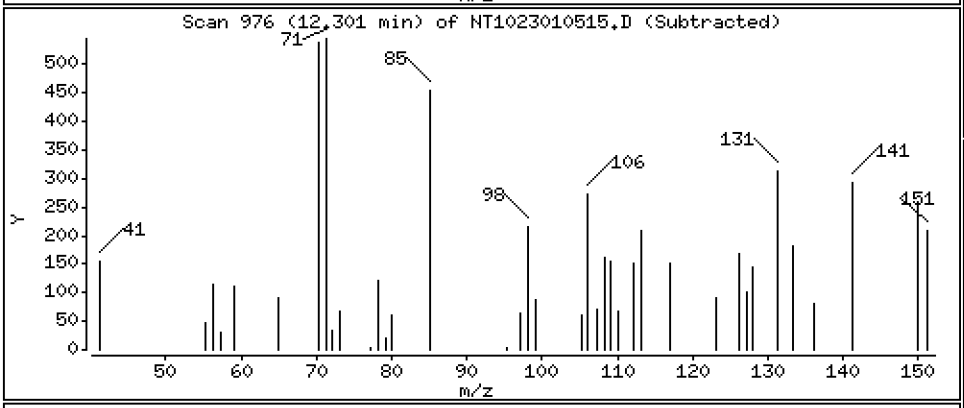
Column diameter: 0.25

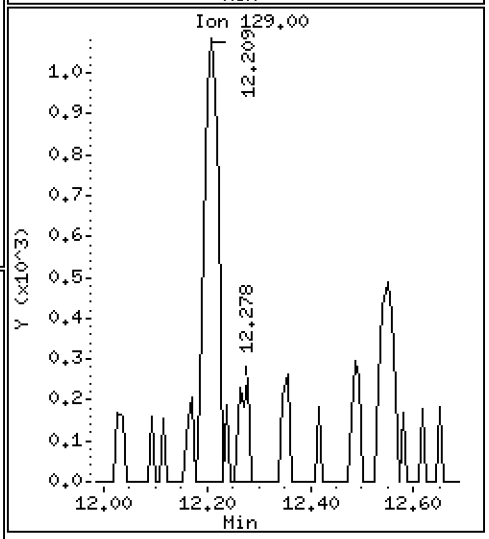
29 4-Chloroaniline

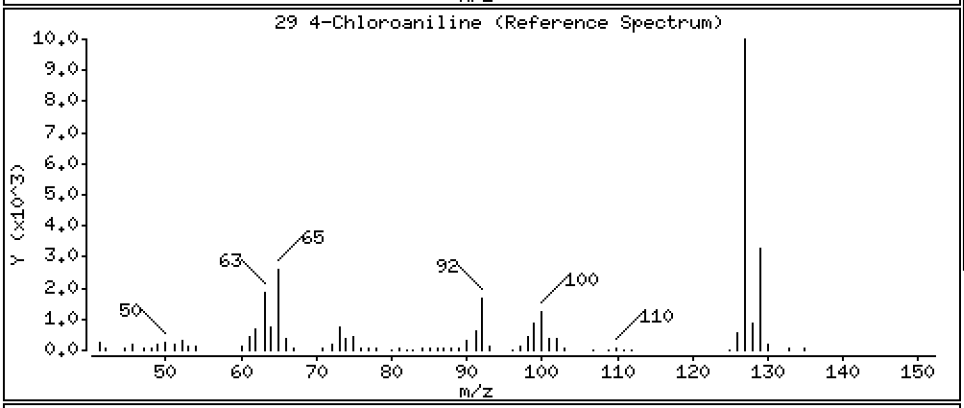
Concentration: 0.006267 ug/mL

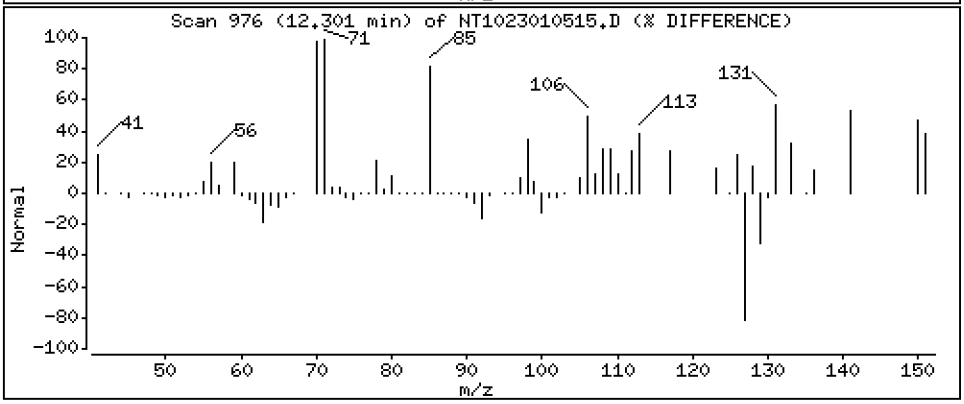












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

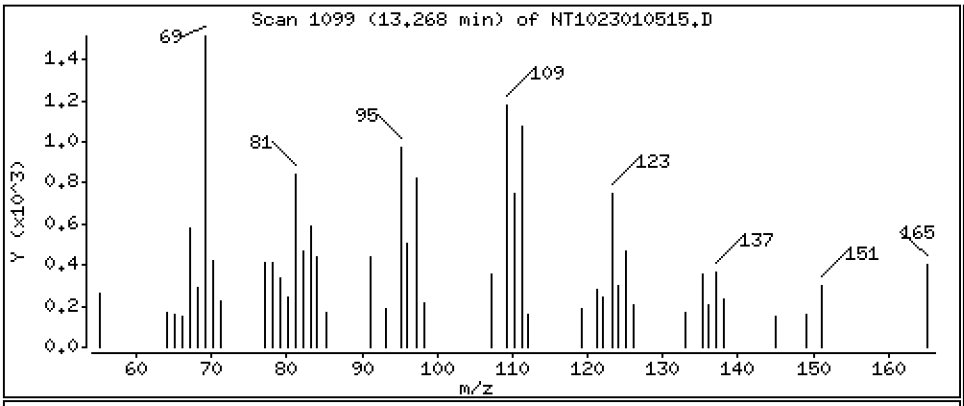
Operator: VTS

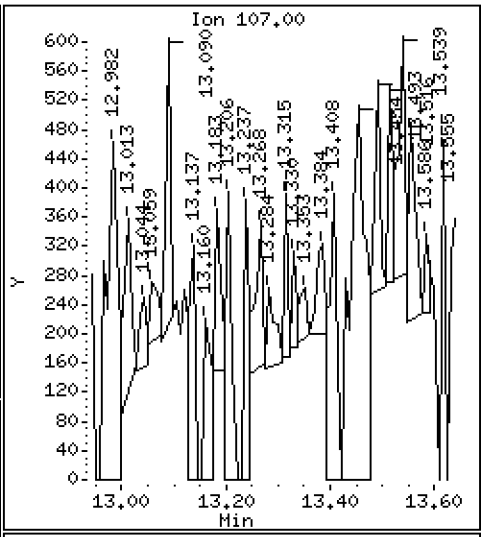
Column phase: ZB-5msi

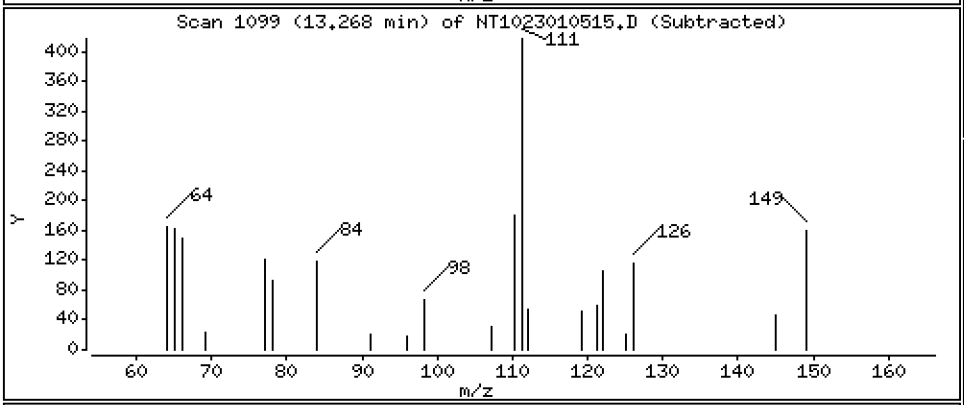
Column diameter: 0.25

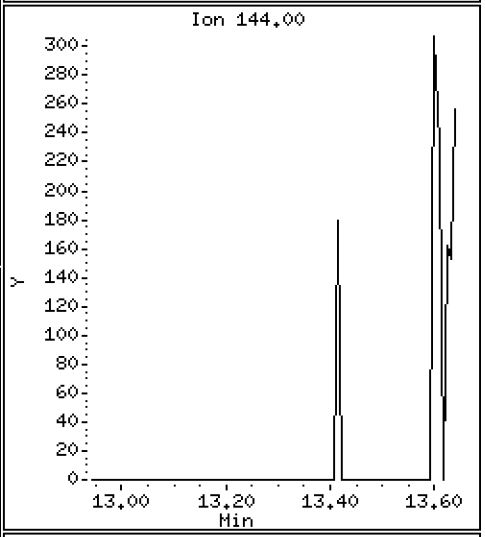
31 4-Chloro-3-methylphenol

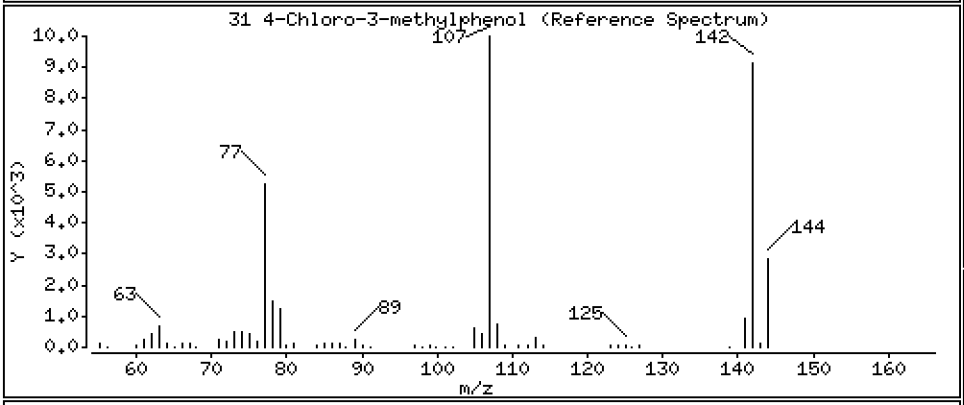
Concentration: 0.01128 ug/mL

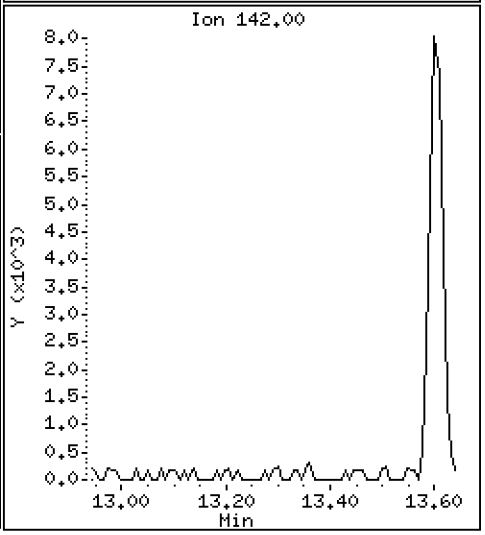


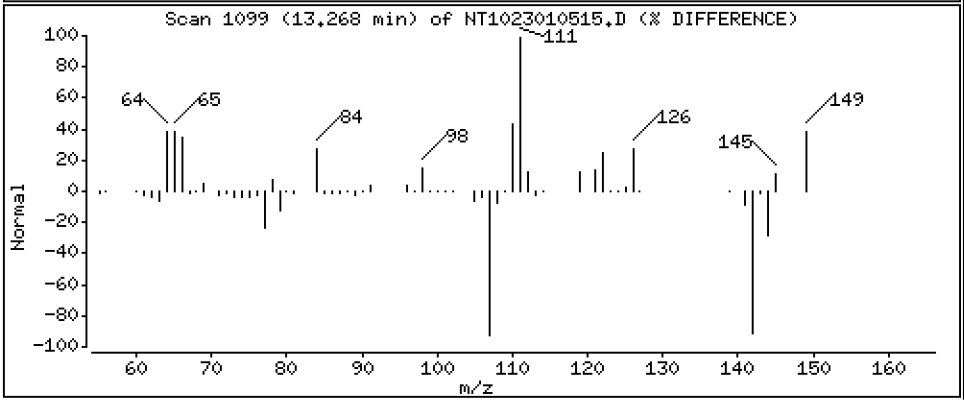












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

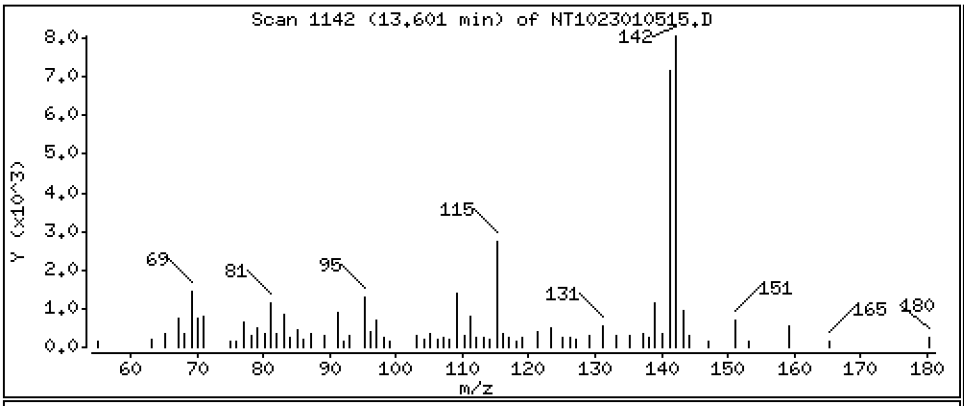
Operator: VTS

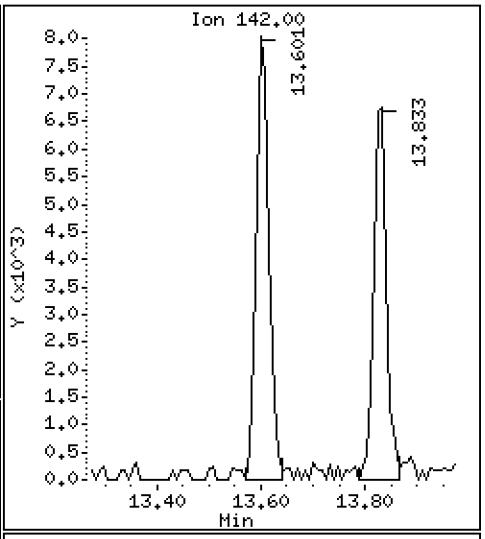
Column phase: ZB-5msi

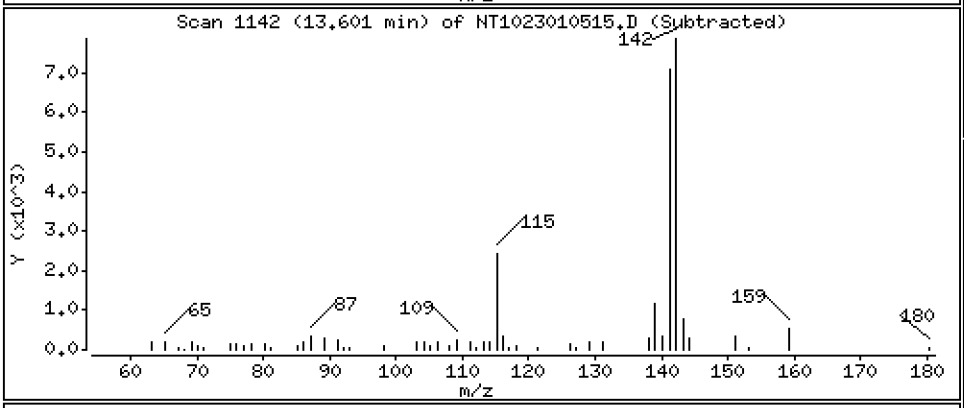
Column diameter: 0.25

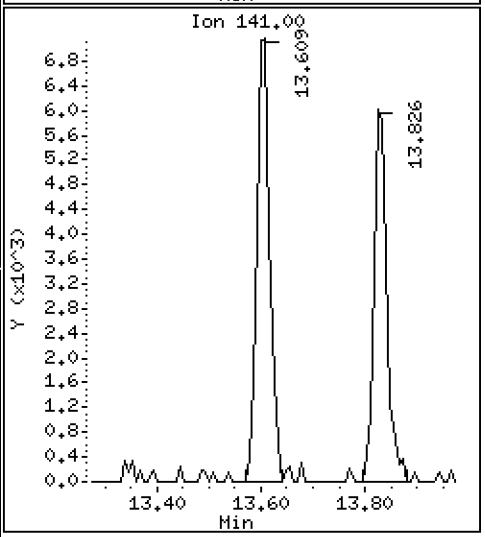
32 2-Methylnaphthalene

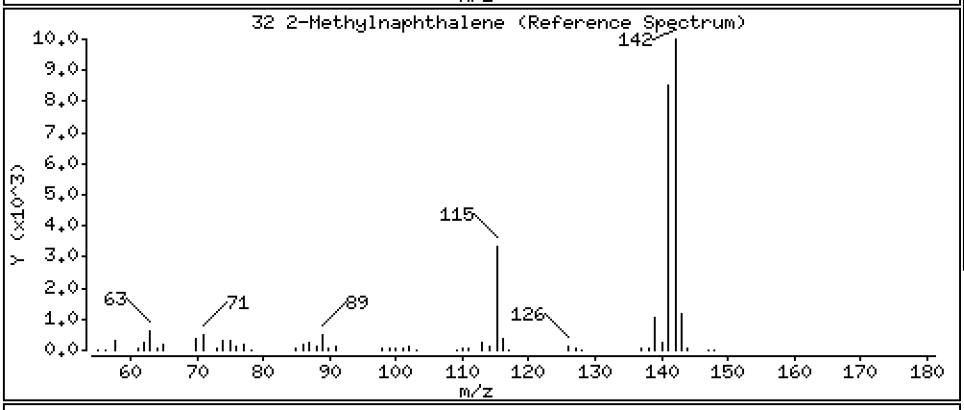
Concentration: 0.2528 ug/mL

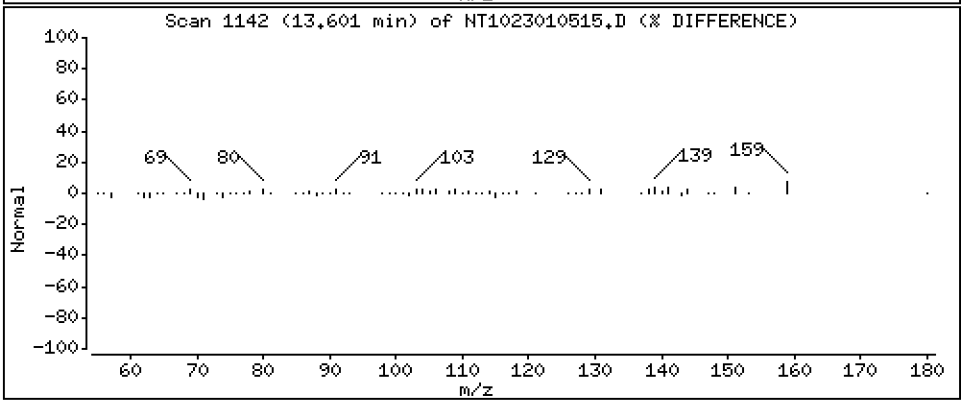












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

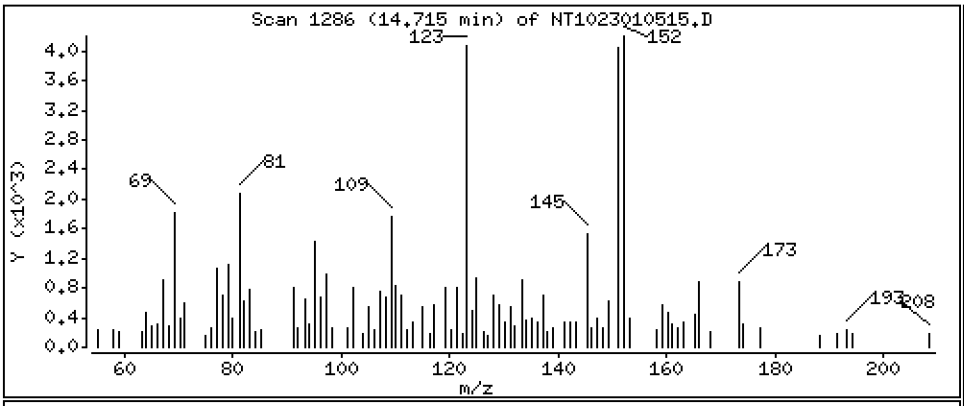
Operator: VTS

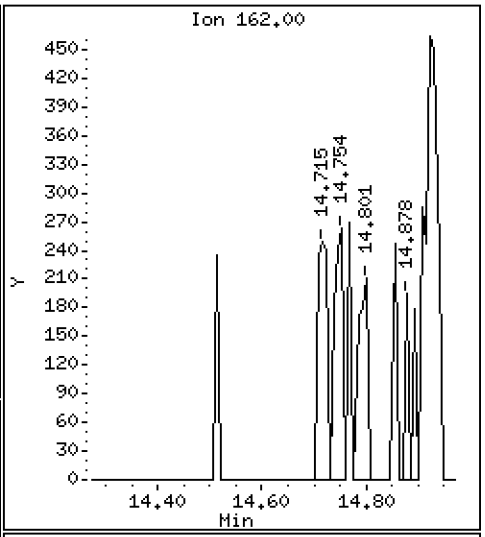
Column phase: ZB-5msi

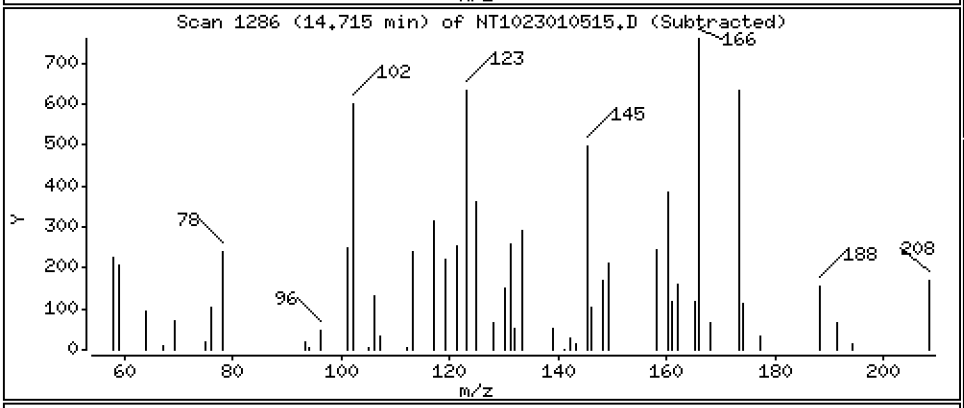
Column diameter: 0.25

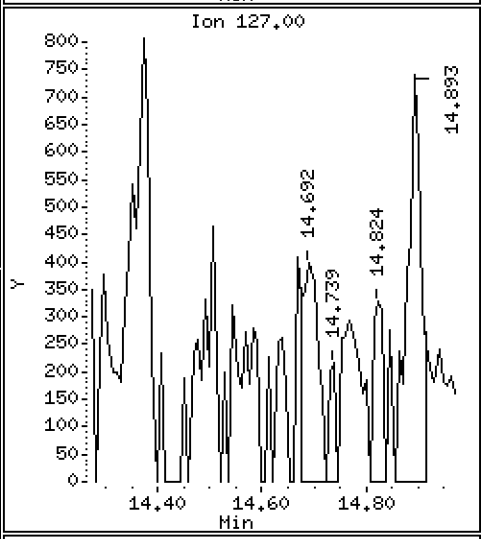
37 2-Chloronaphthalene

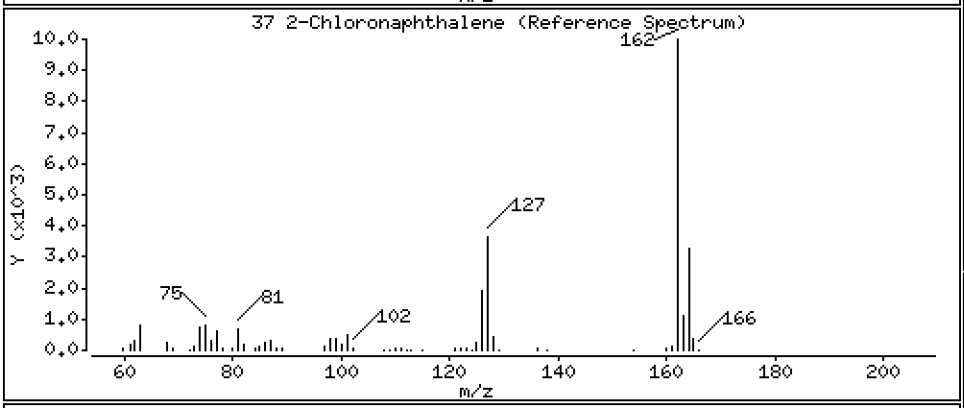
Concentration: 0.008352 ug/mL

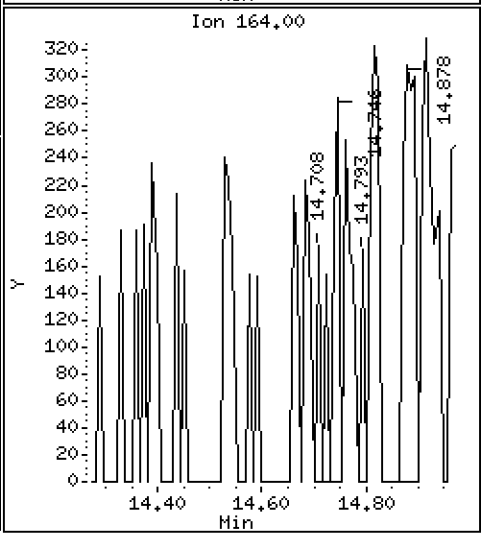


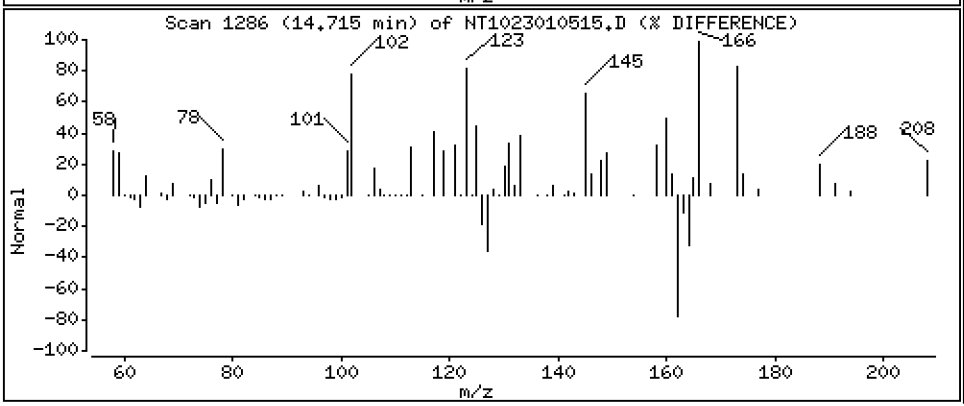












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

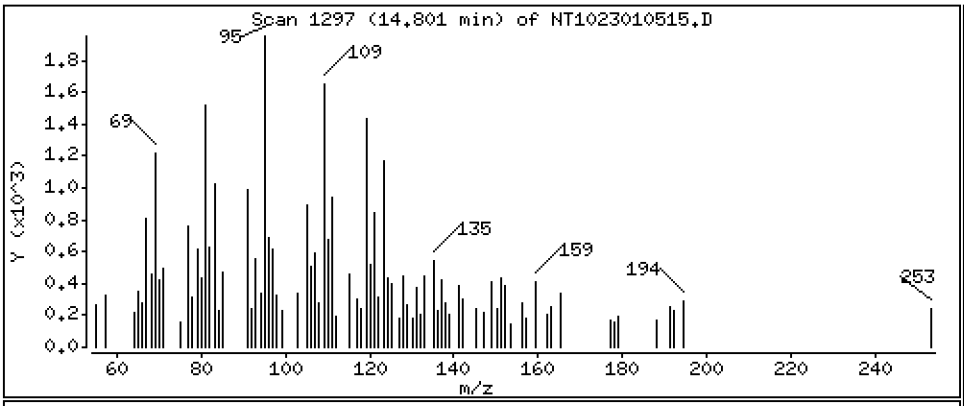
Operator: VTS

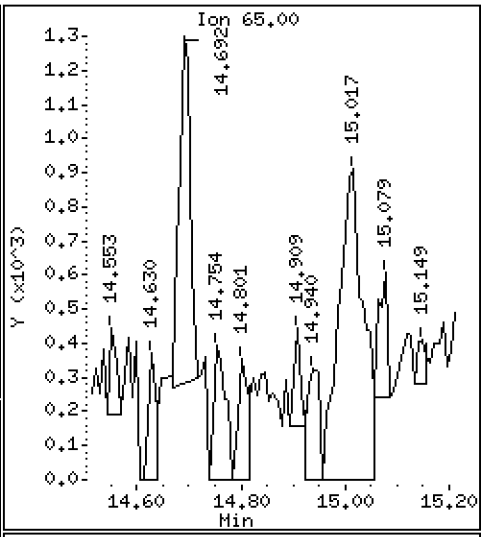
Column phase: ZB-5msi

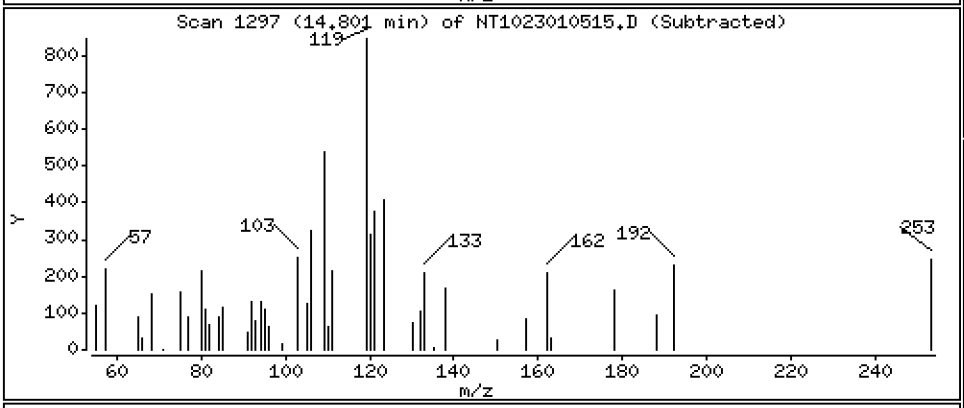
Column diameter: 0.25

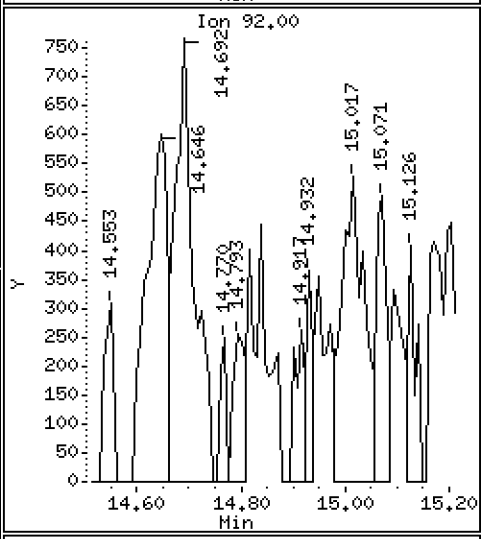
38 2-Nitroaniline

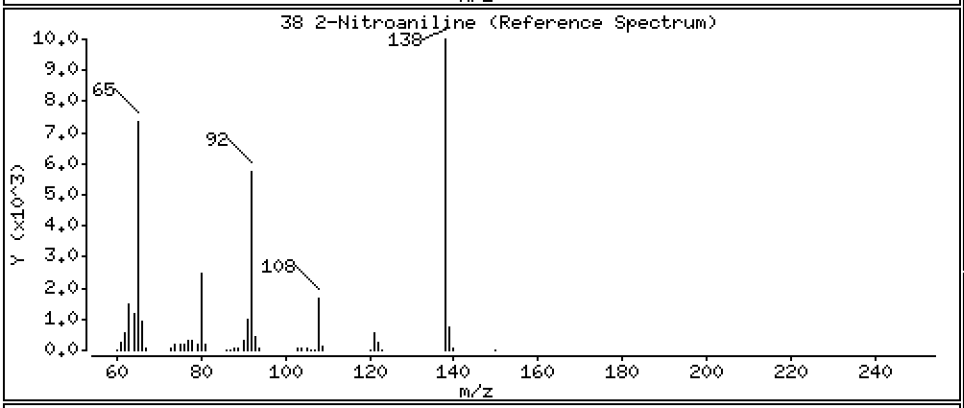
Concentration: 0.09145 ug/mL

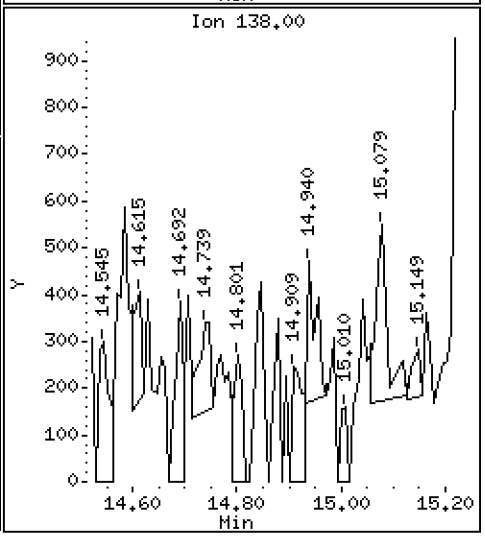


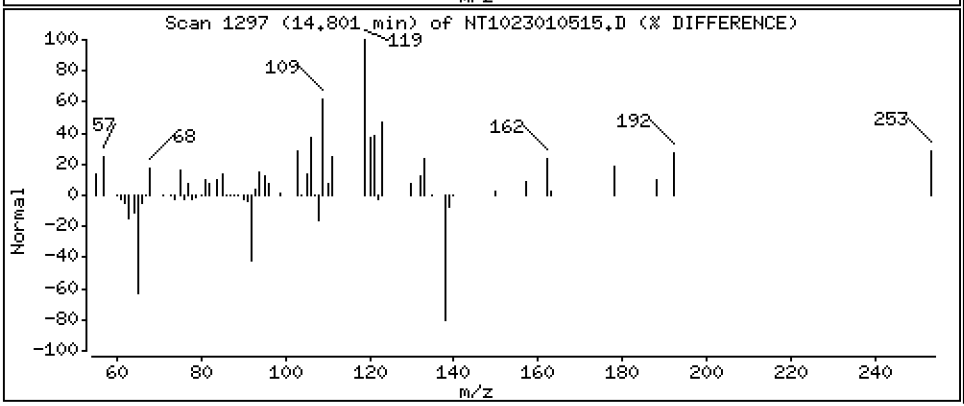












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

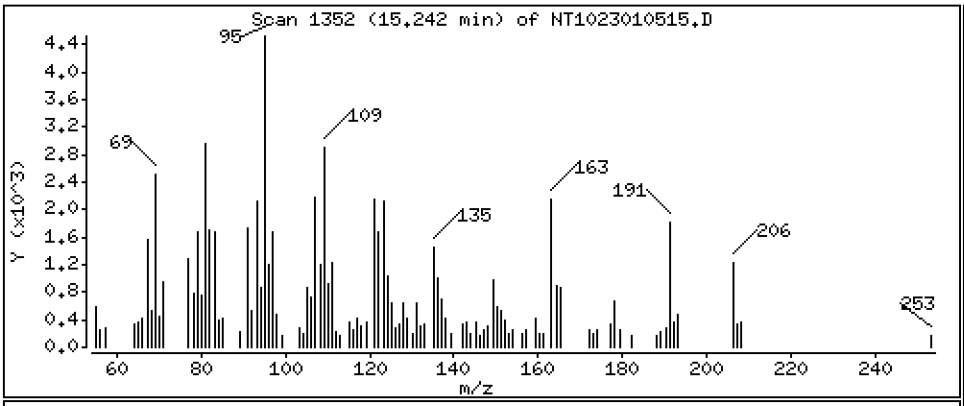
Operator: VTS

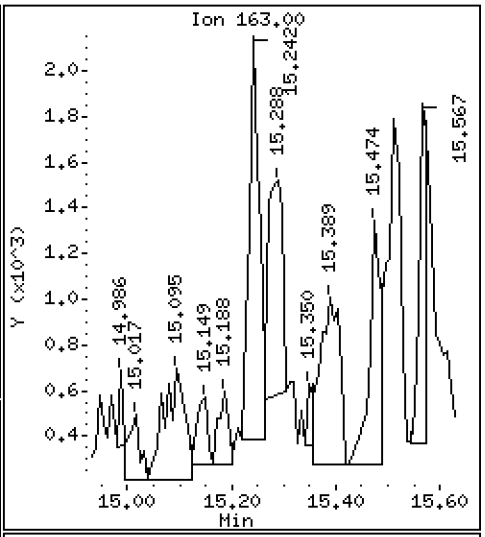
Column phase: ZB-5msi

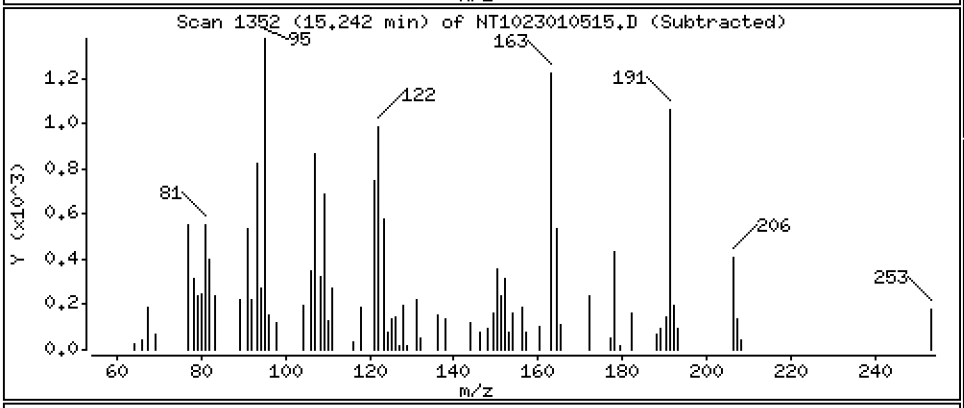
Column diameter: 0.25

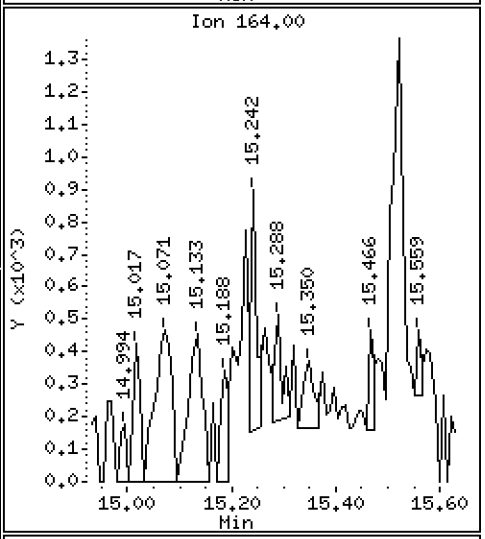
39 Dimethylphthalate

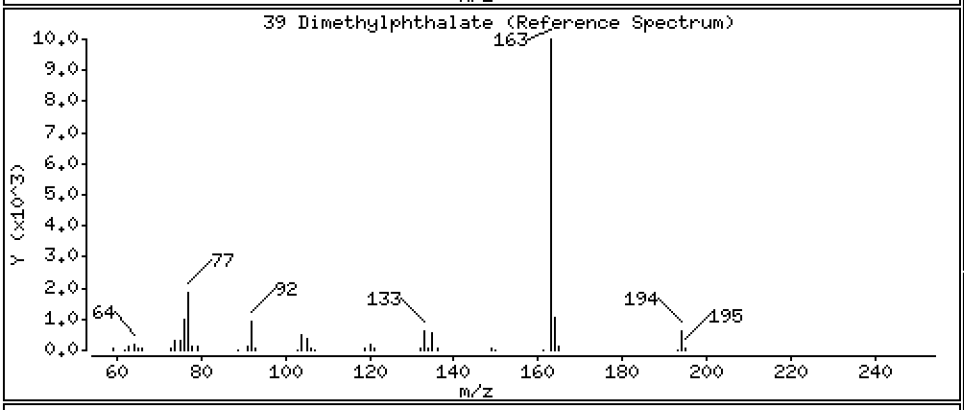
Concentration: 0.07106 ug/mL

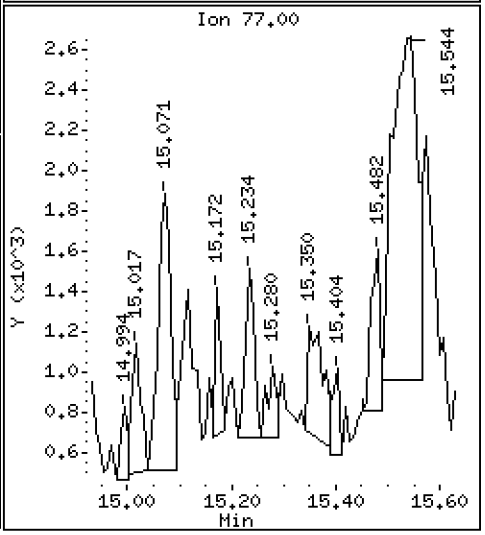


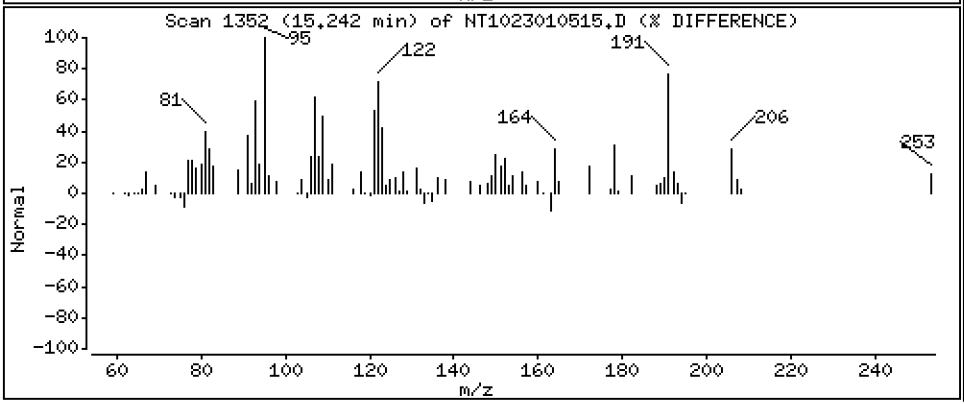












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

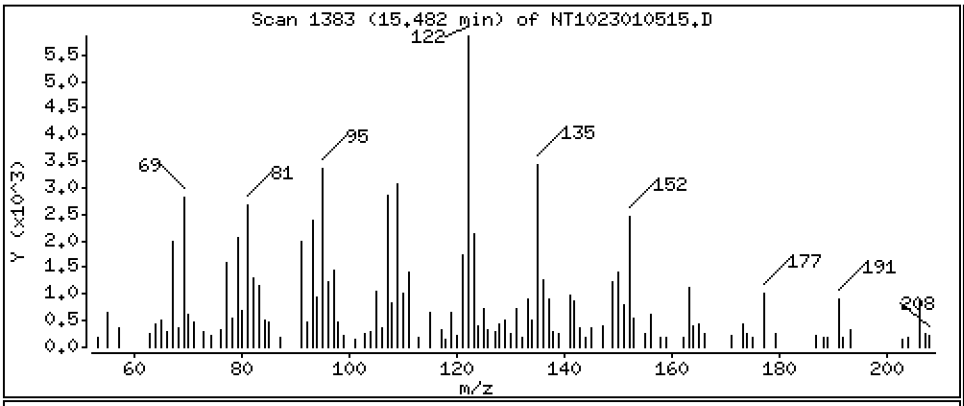
Operator: VTS

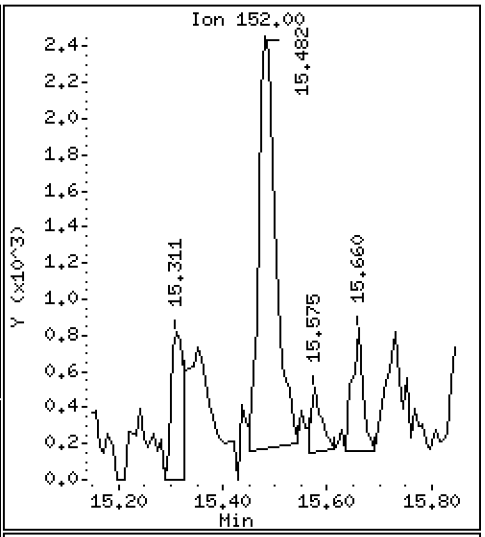
Column phase: ZB-5msi

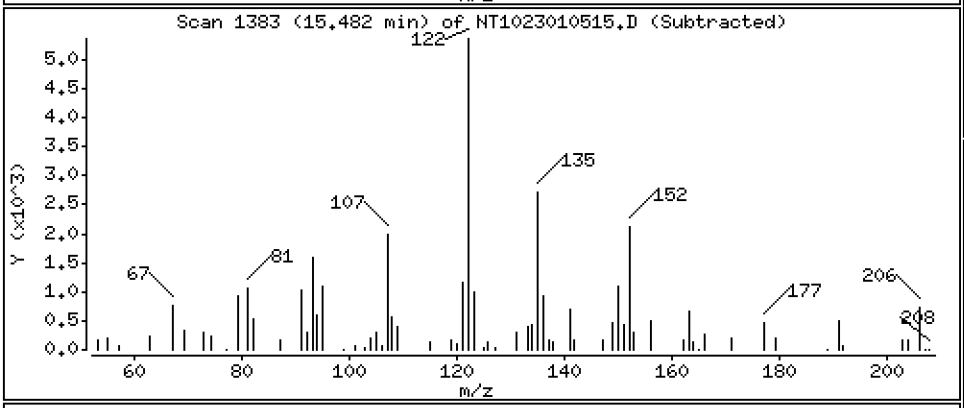
Column diameter: 0.25

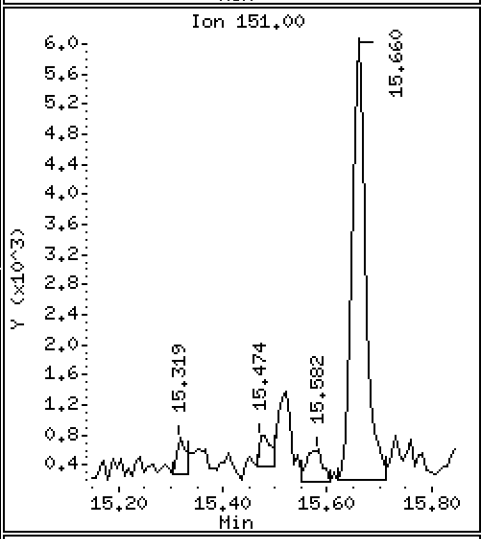
40 Acenaphthylene

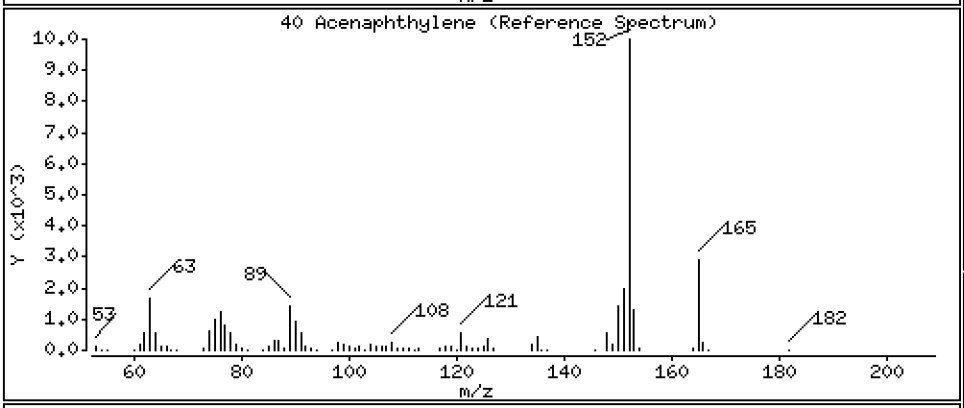
Concentration: 0.08878 ug/mL

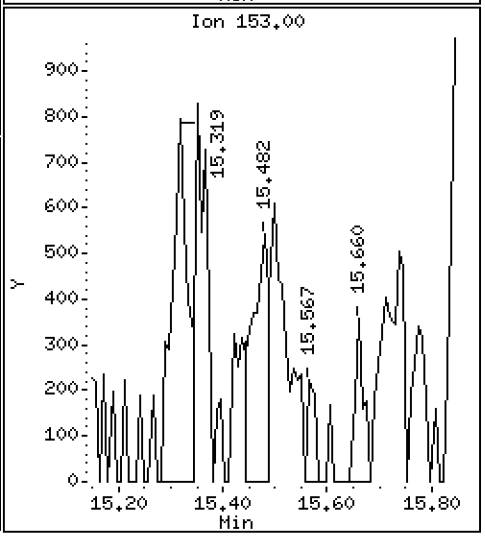


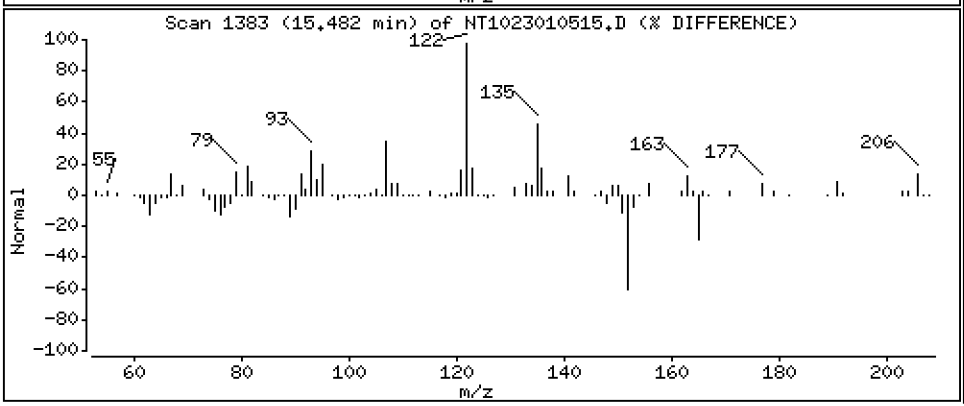












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

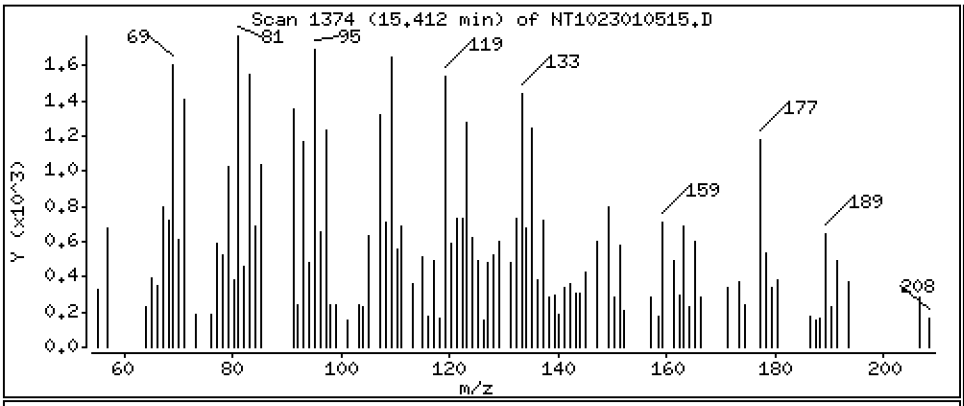
Operator: VTS

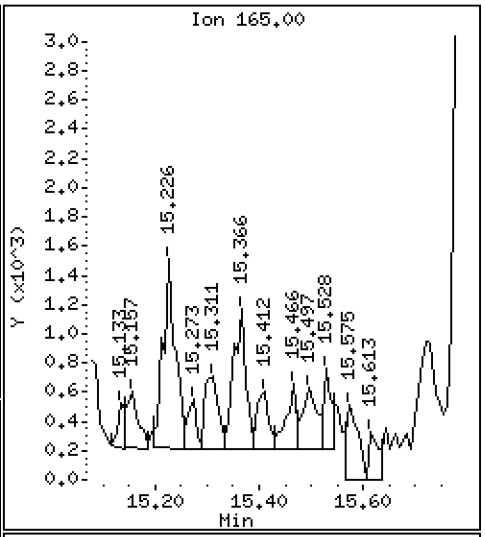
Column phase: ZB-5msi

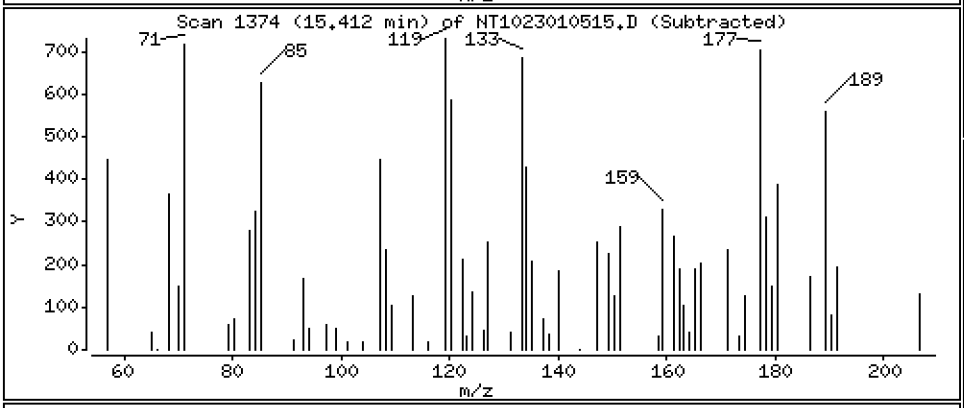
Column diameter: 0.25

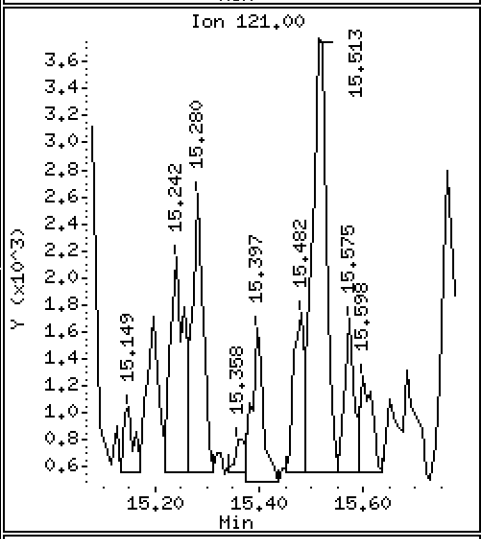
41 2,6-Dinitrotoluene

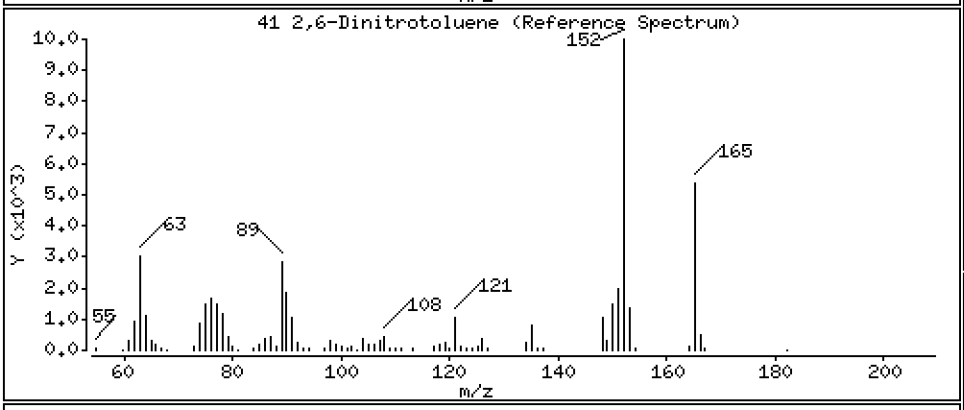
Concentration: 0.07710 ug/mL

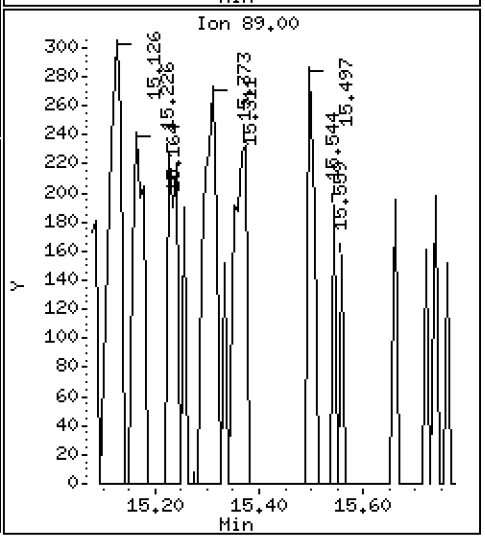


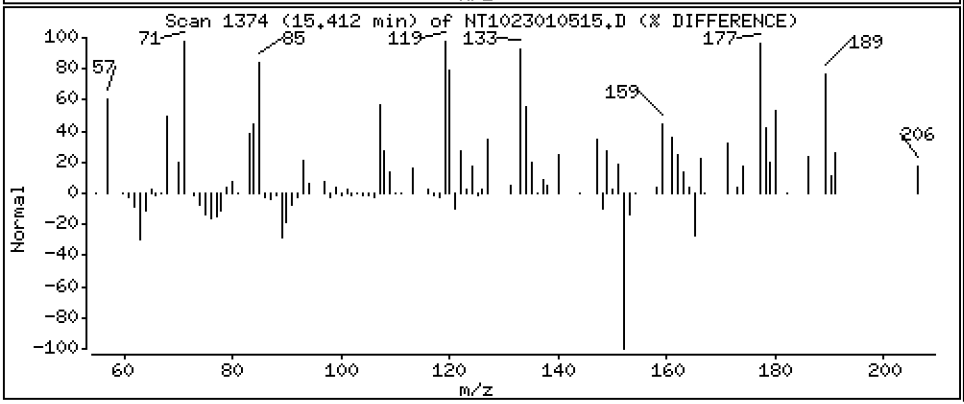












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

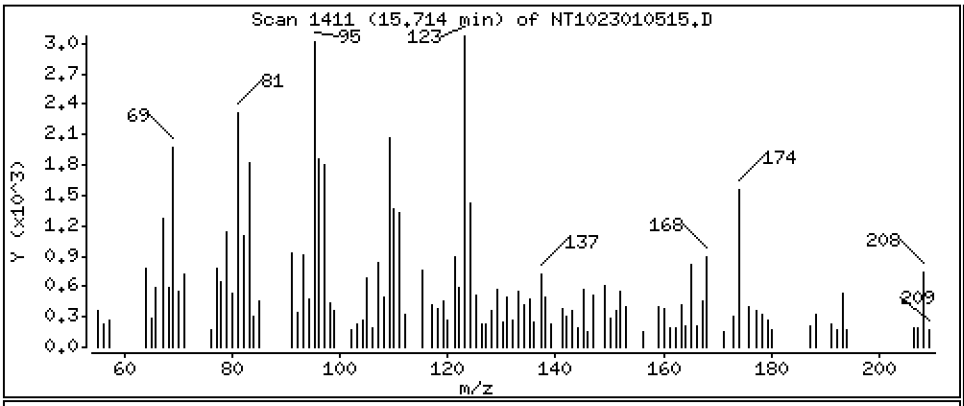
Operator: VTS

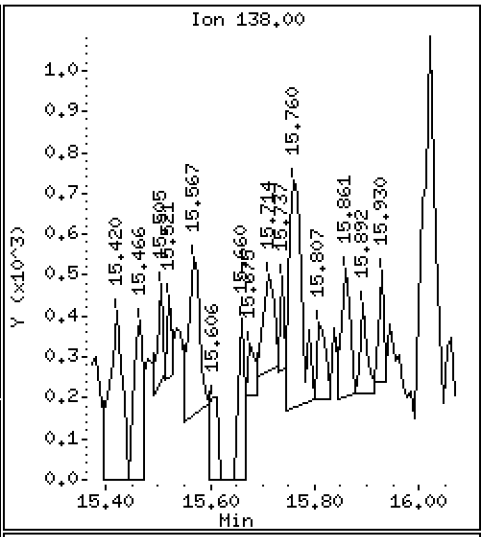
Column phase: ZB-5msi

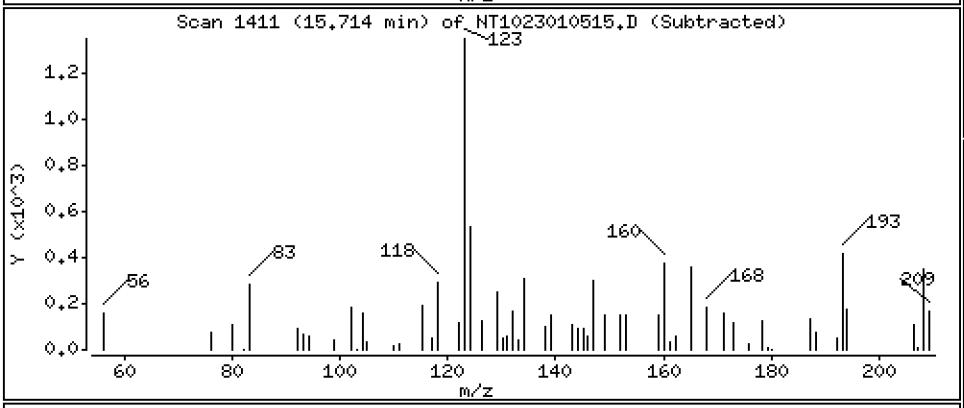
Column diameter: 0.25

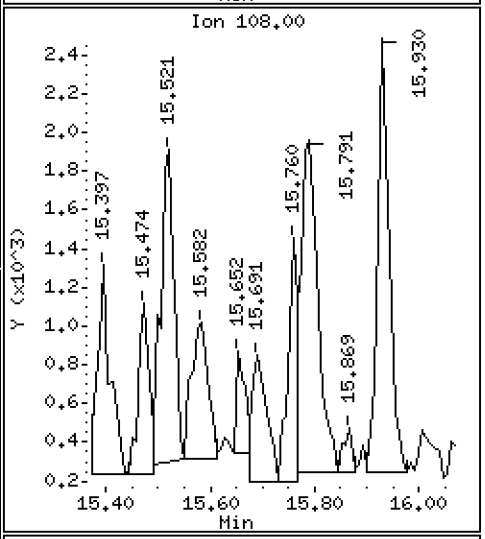
43 3-Nitroaniline

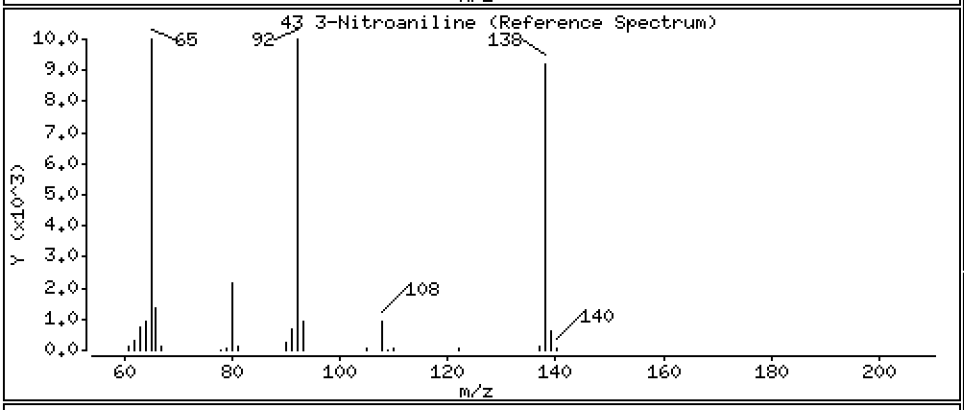
Concentration: 0.06067 ug/mL

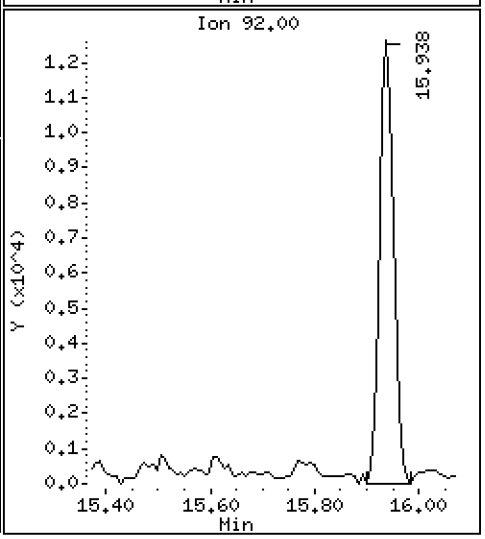


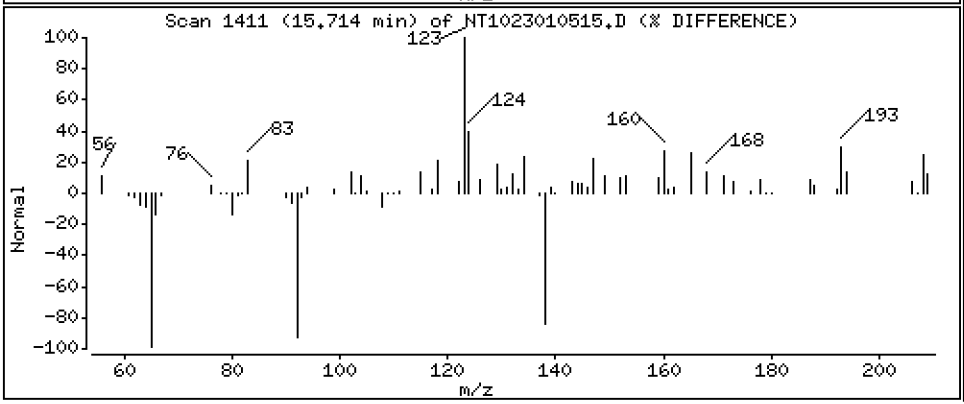












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

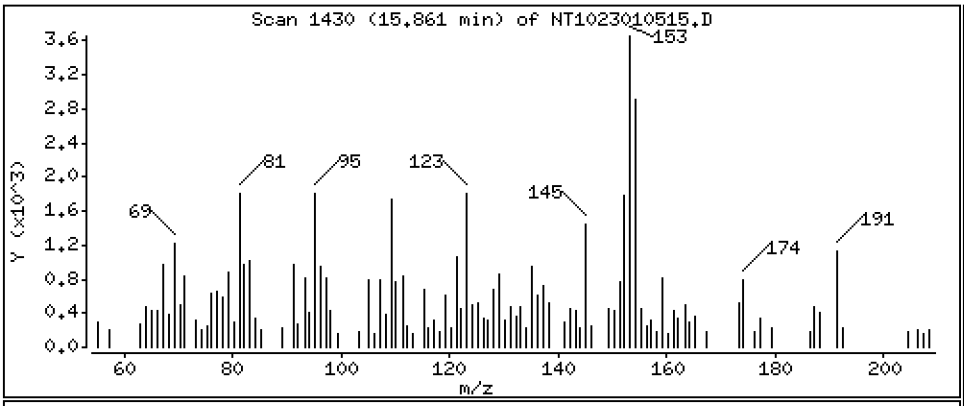
Operator: VTS

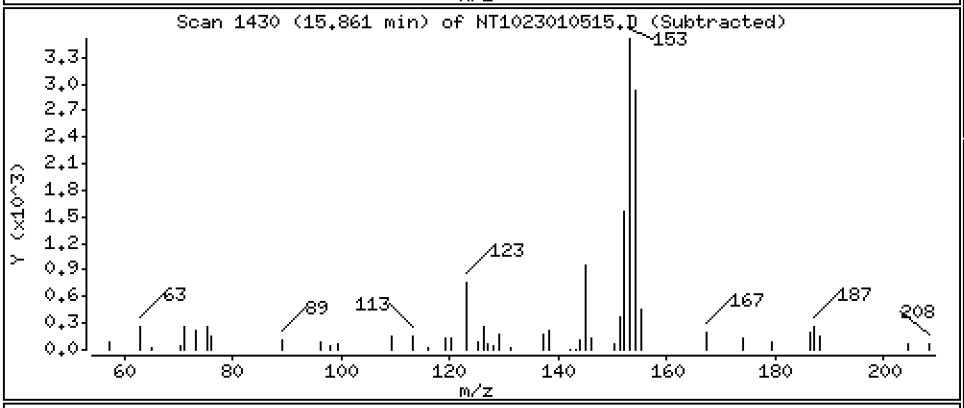
Column phase: ZB-5msi

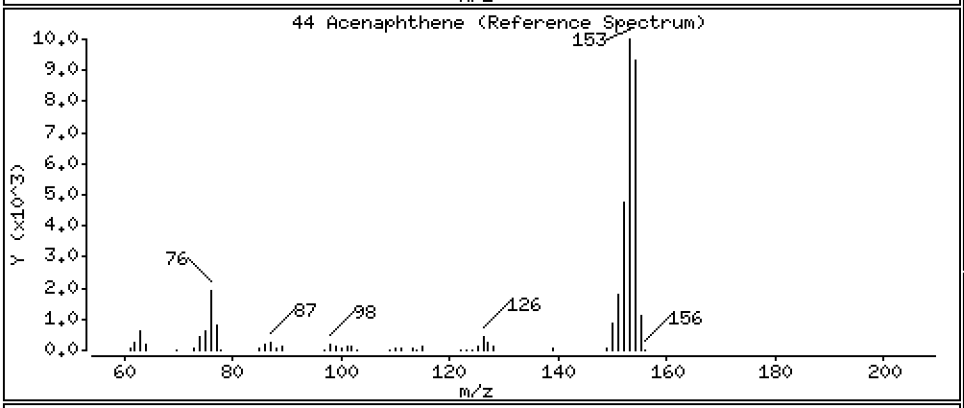
Column diameter: 0.25

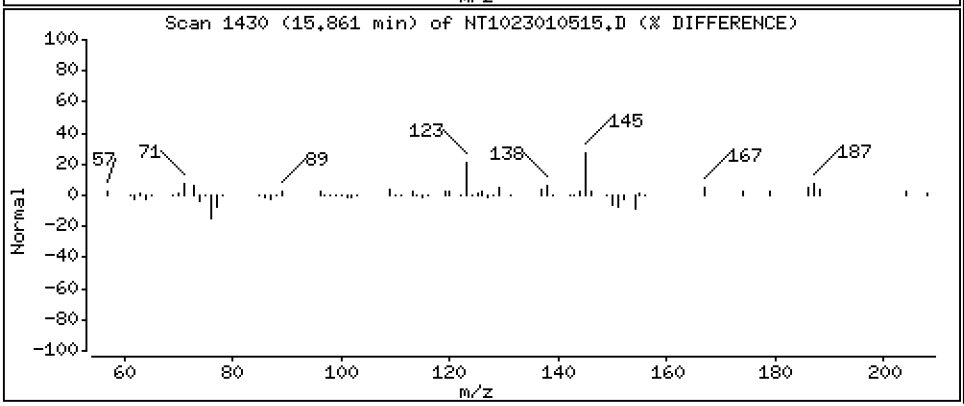
44 Acenaphthene

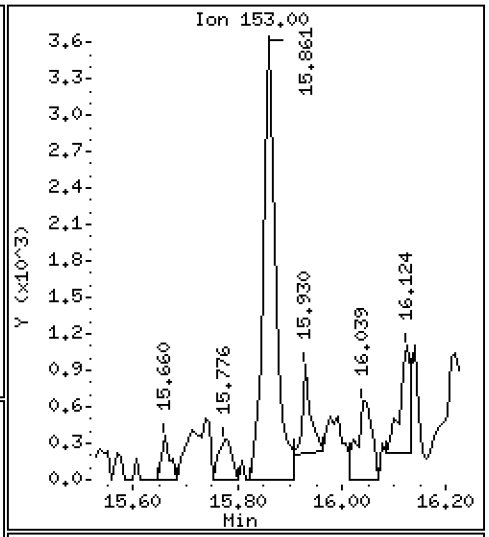
Concentration: 0.1860 ug/mL

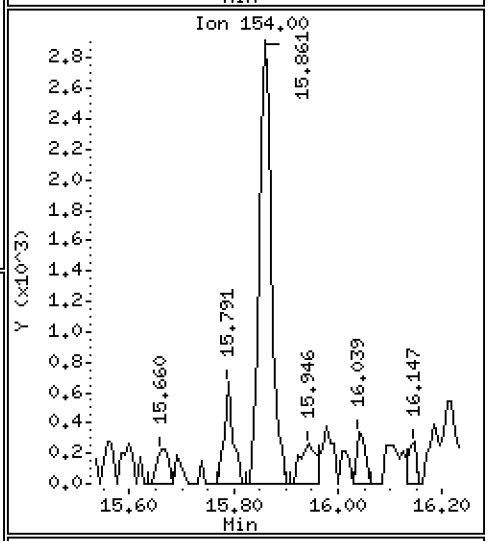


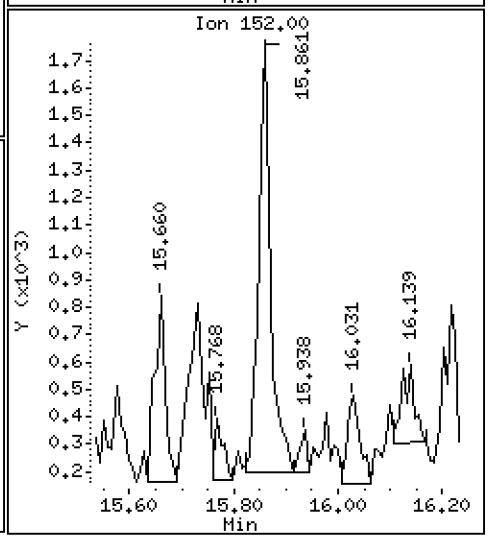












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

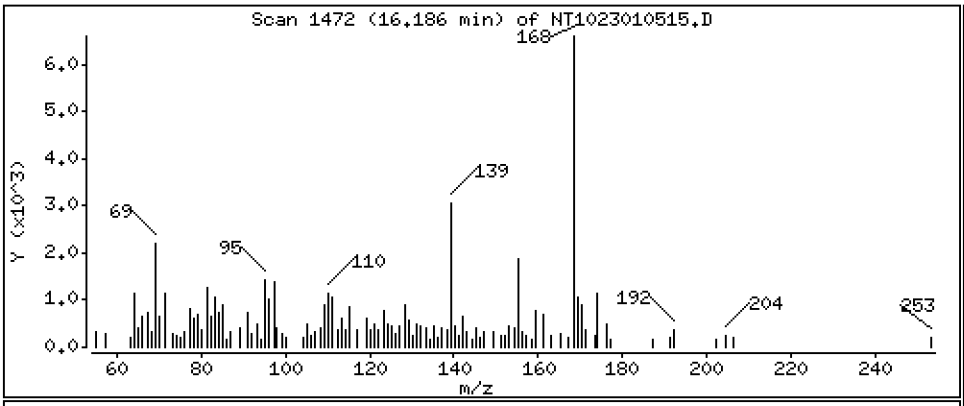
Operator: VTS

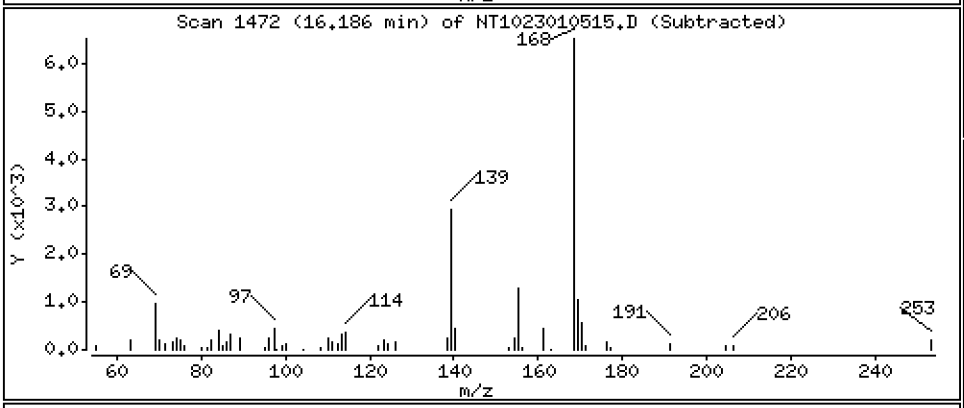
Column phase: ZB-5msi

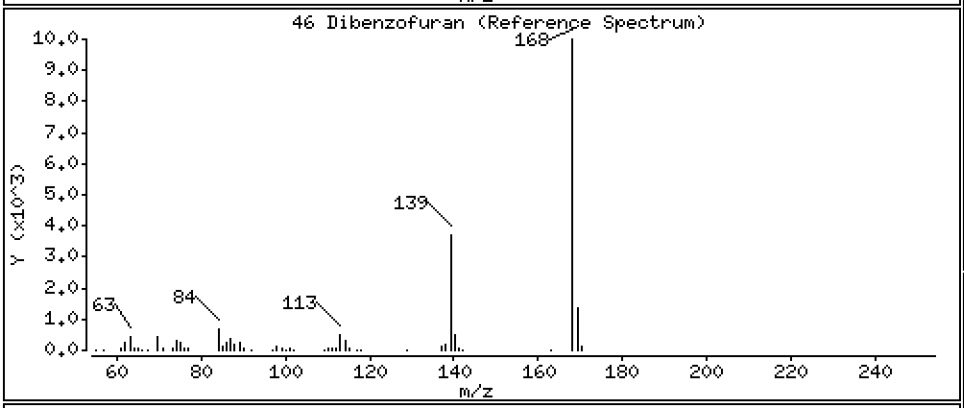
Column diameter: 0.25

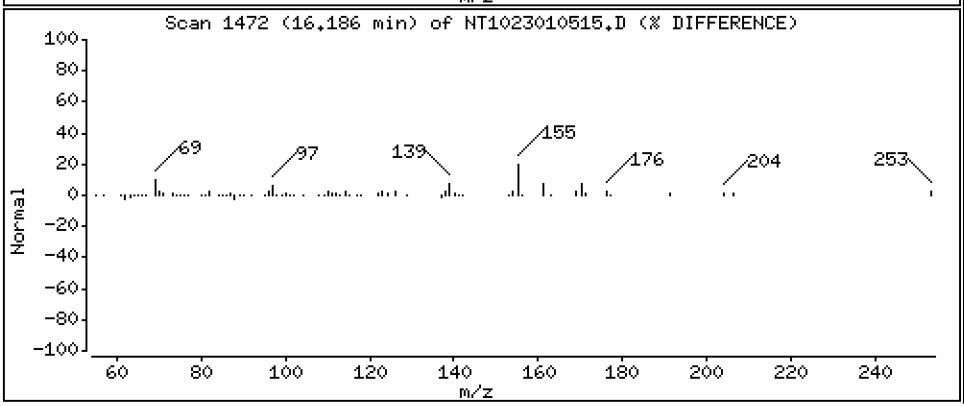
46 Dibenzofuran

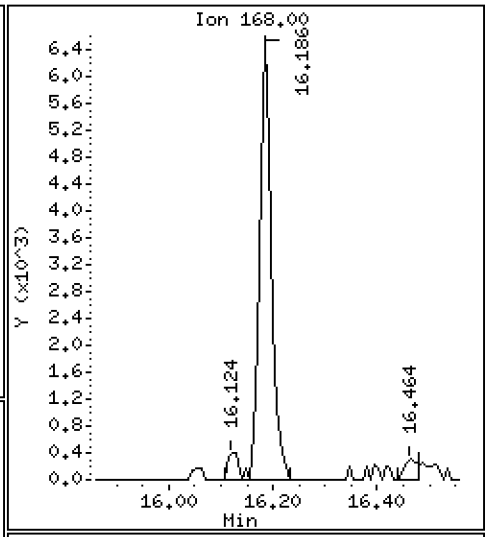
Concentration: 0.2175 ug/mL

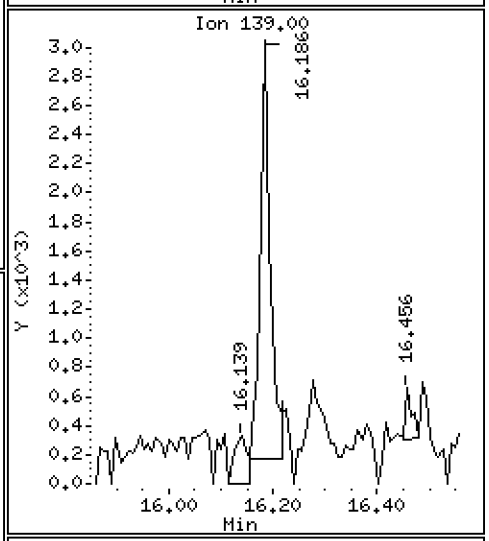


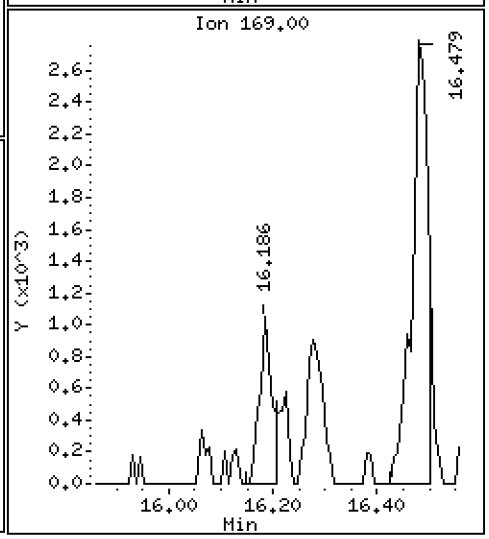












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

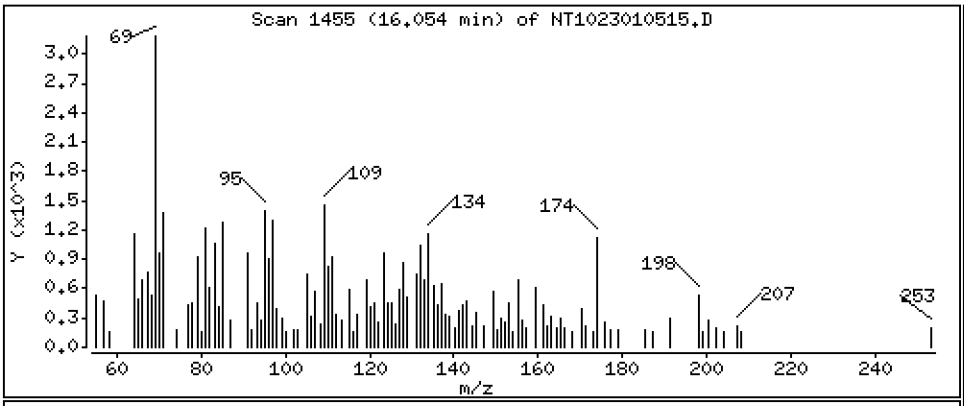
Operator: VTS

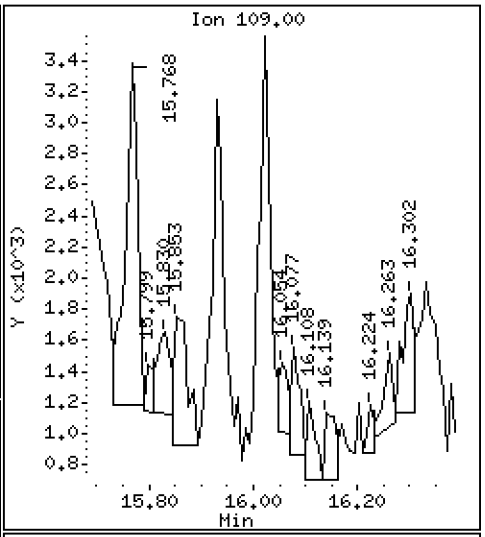
Column phase: ZB-5msi

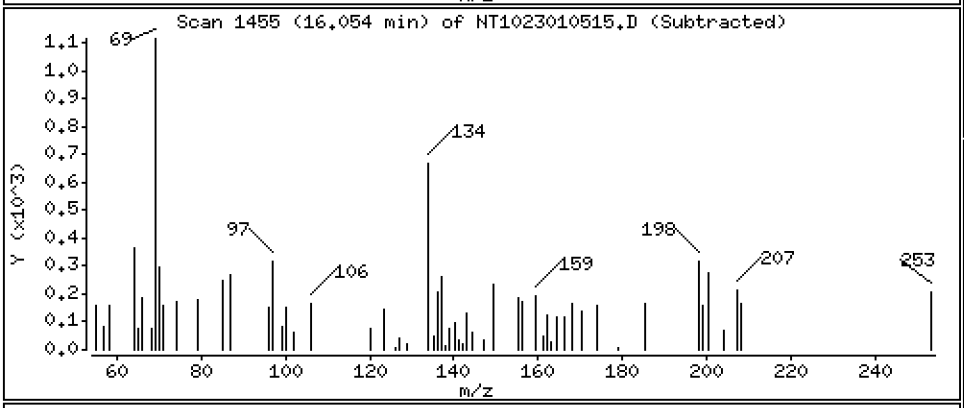
Column diameter: 0.25

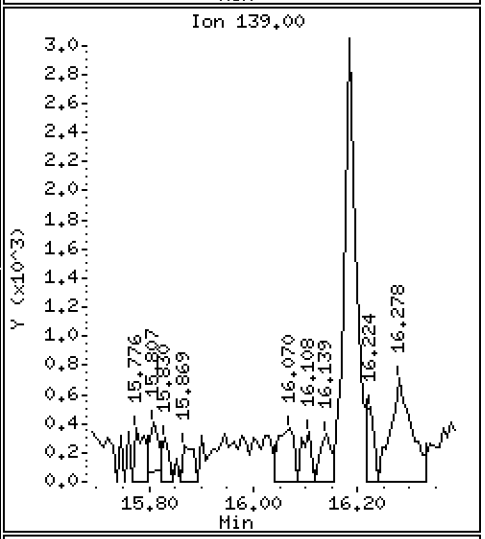
47 4-Nitrophenol

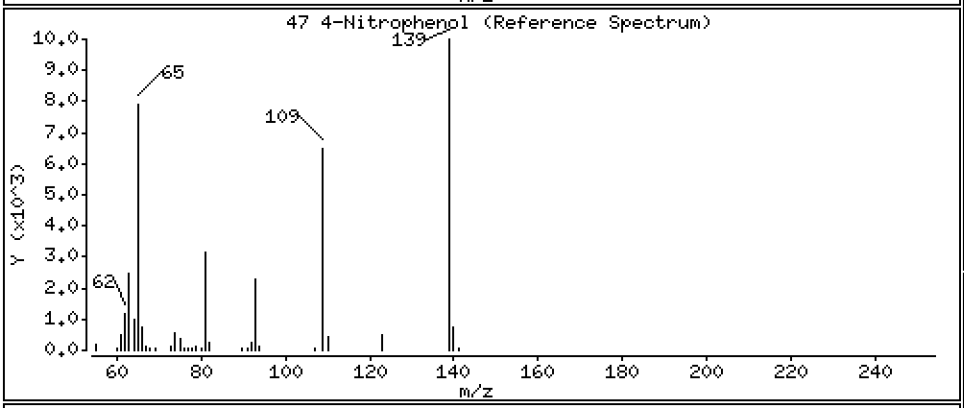
Concentration: 0.1518 ug/mL

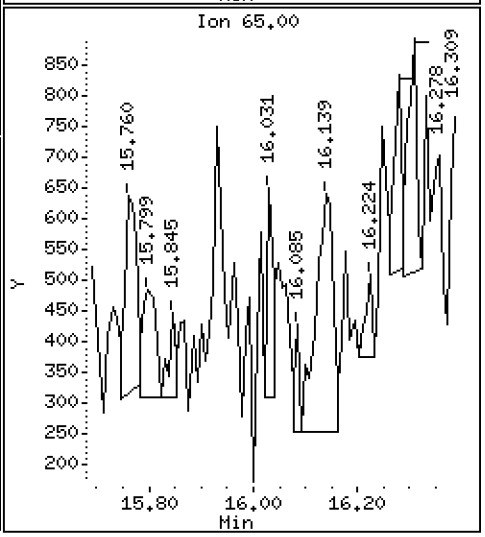


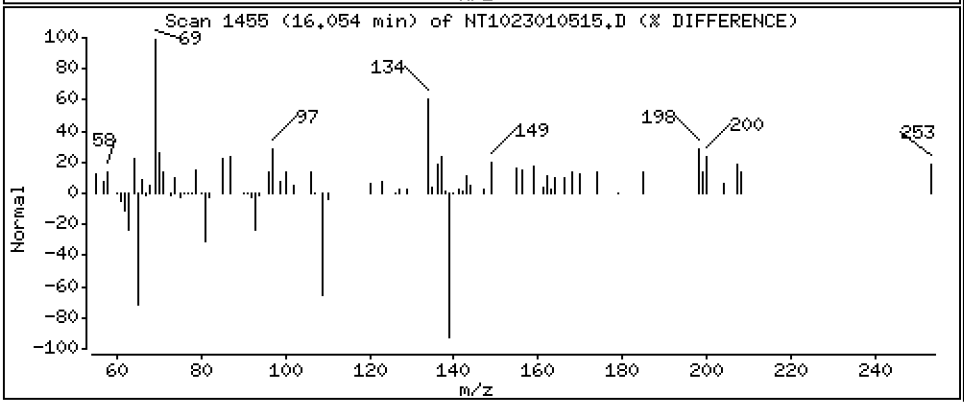












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

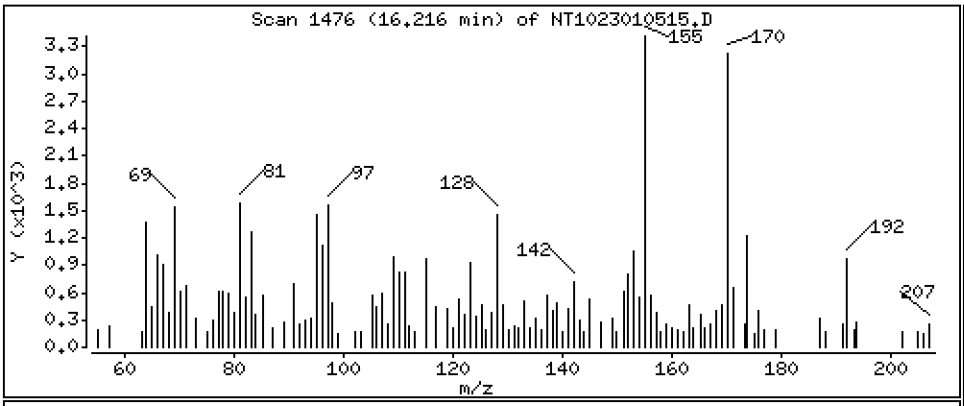
Operator: VTS

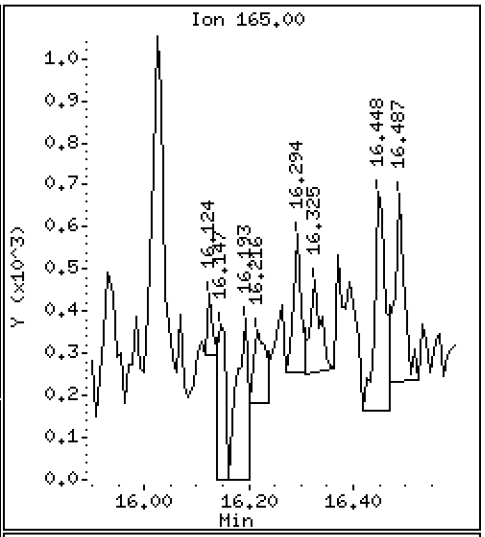
Column phase: ZB-5msi

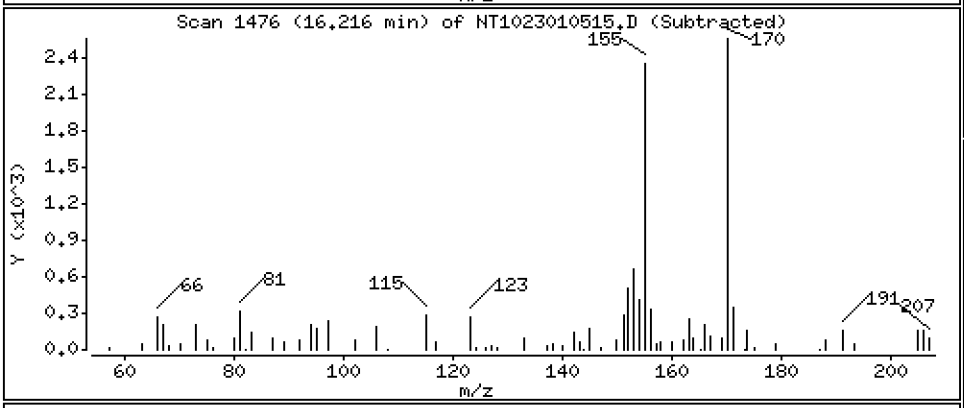
Column diameter: 0.25

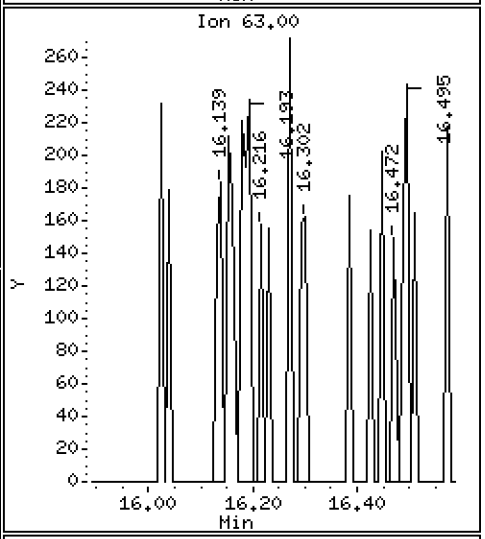
48 2,4-Dinitrotoluene

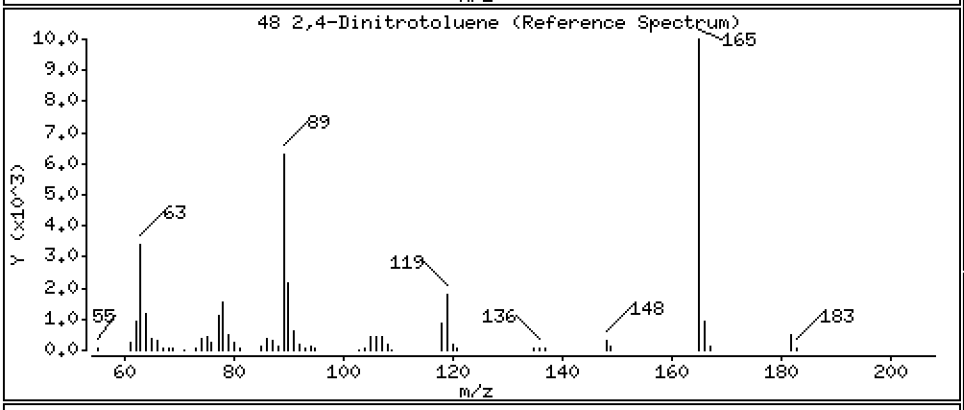
Concentration: 0.02684 ug/mL

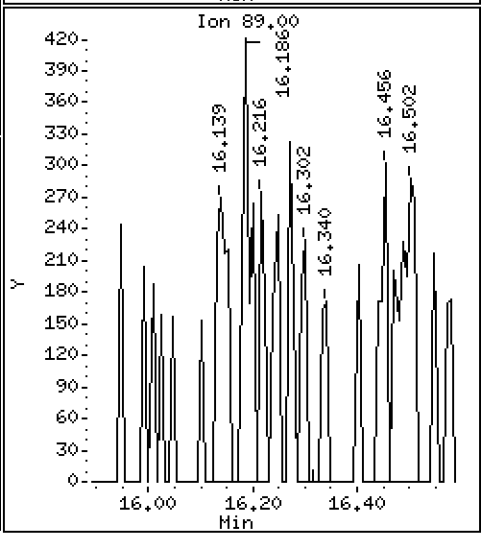


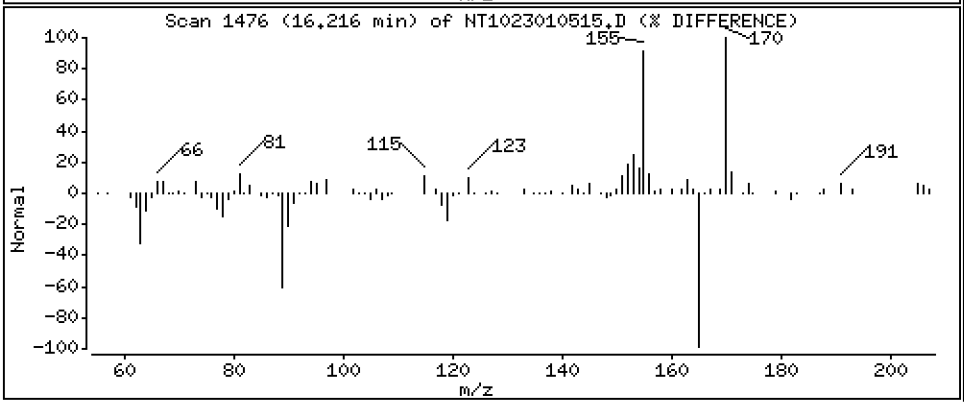












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

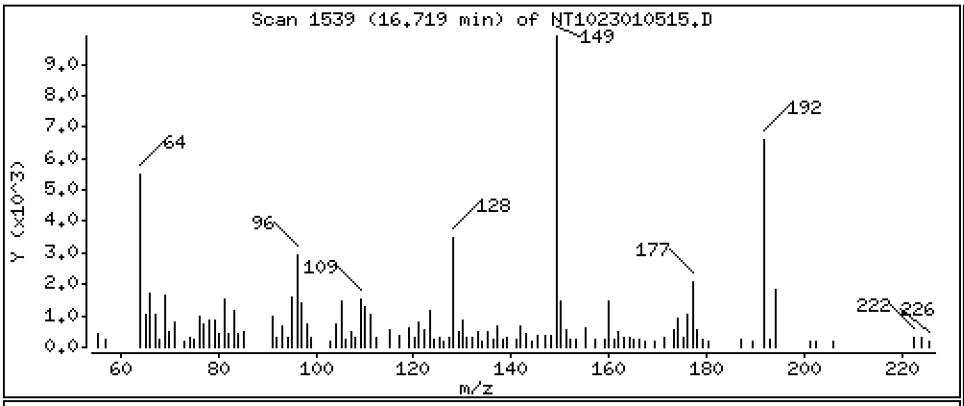
Operator: VTS

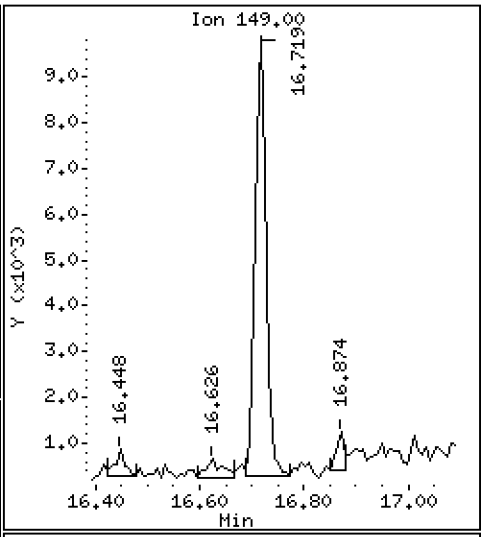
Column phase: ZB-5msi

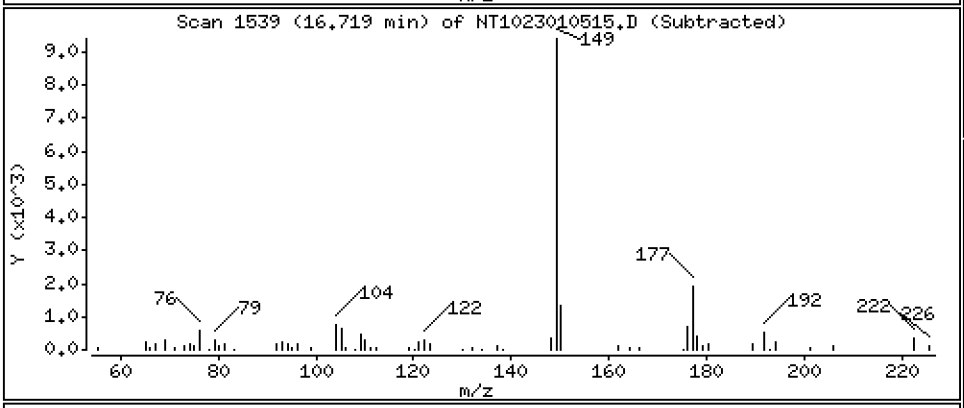
Column diameter: 0.25

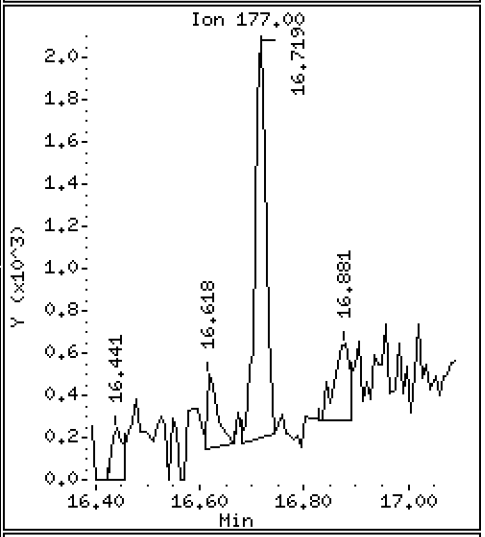
50 Diethylphthalate

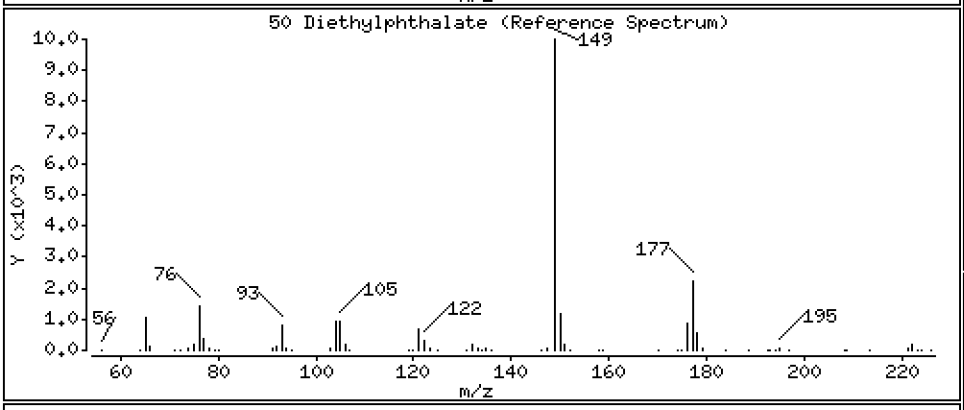
Concentration: 0.3754 ug/mL

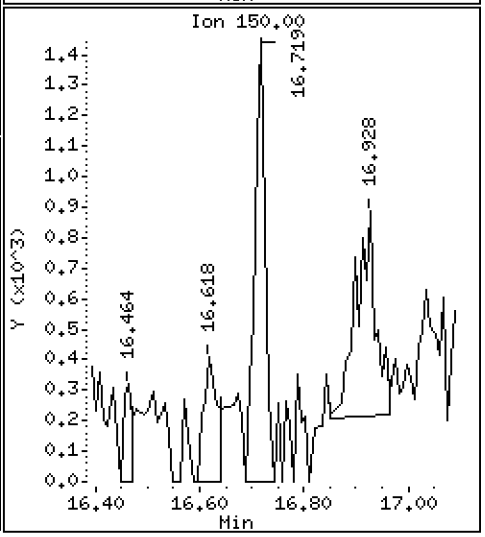


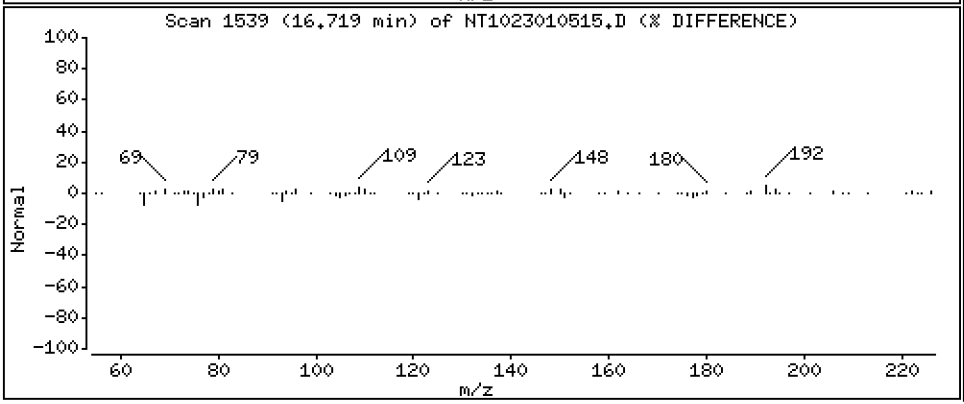












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

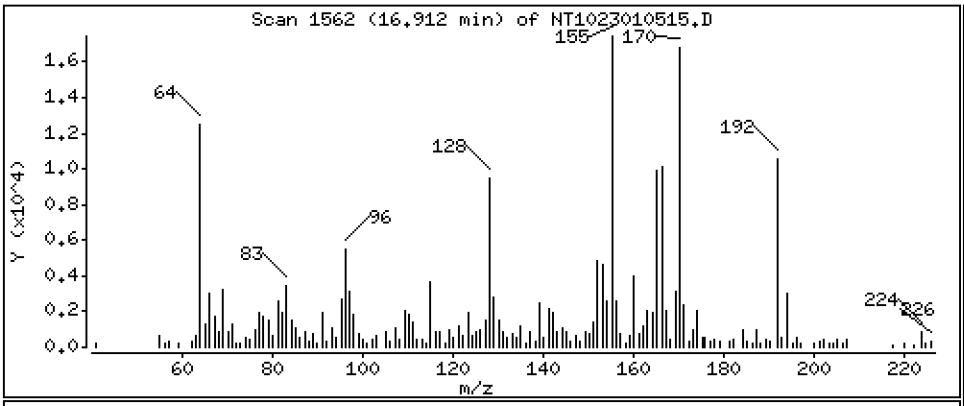
Operator: VTS

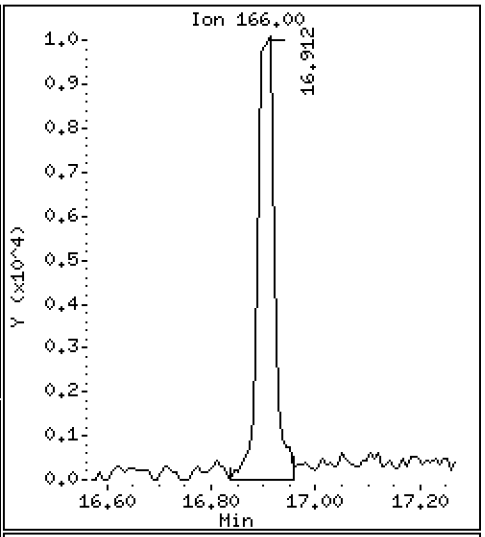
Column phase: ZB-5msi

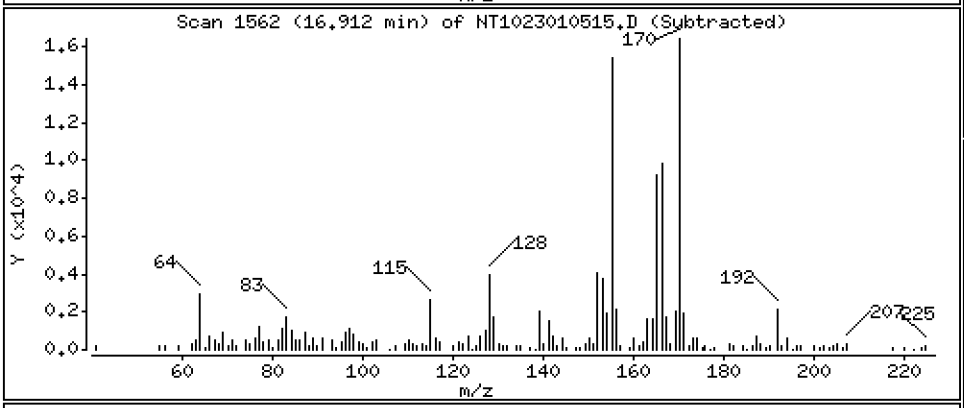
Column diameter: 0.25

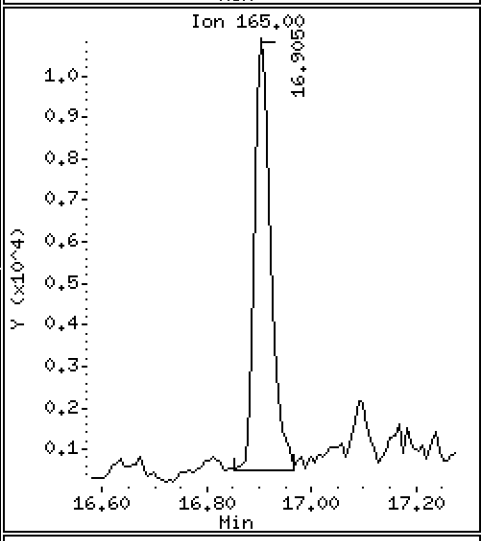
49 Fluorene

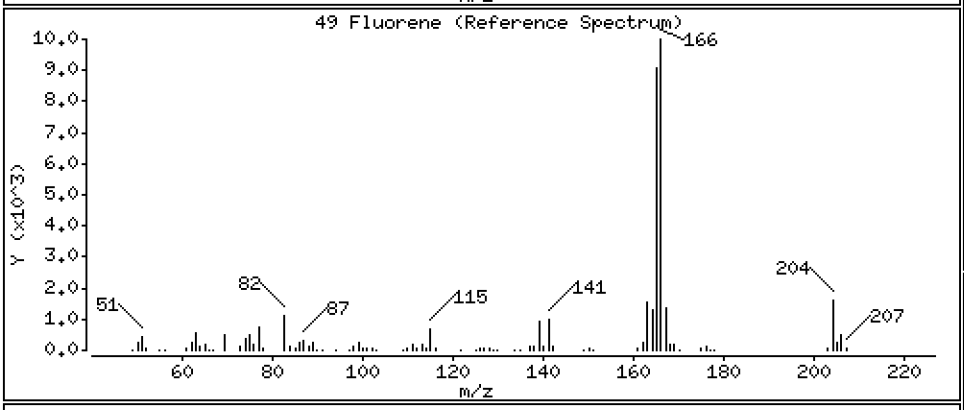
Concentration: 0.3442 ug/mL

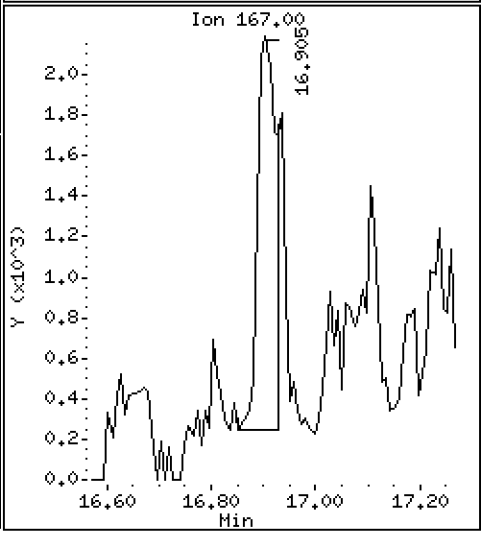


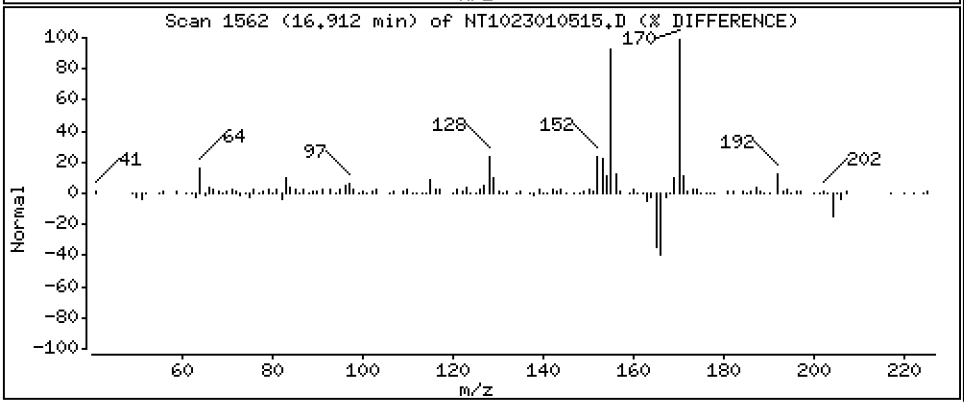












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

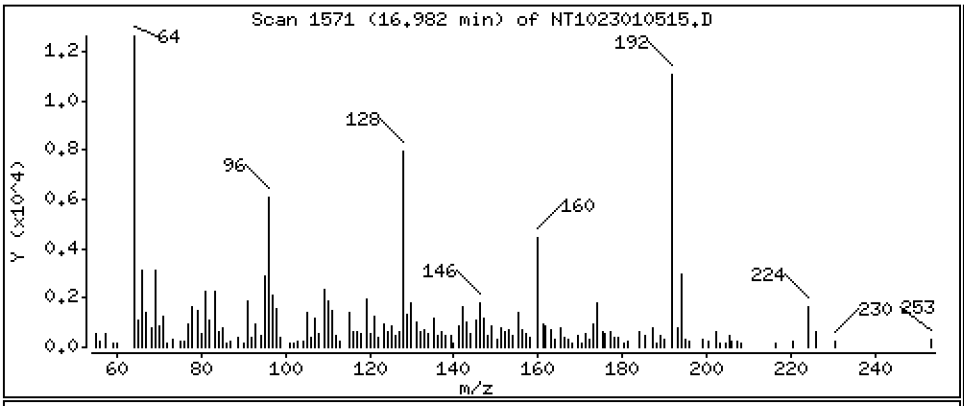
Operator: VTS

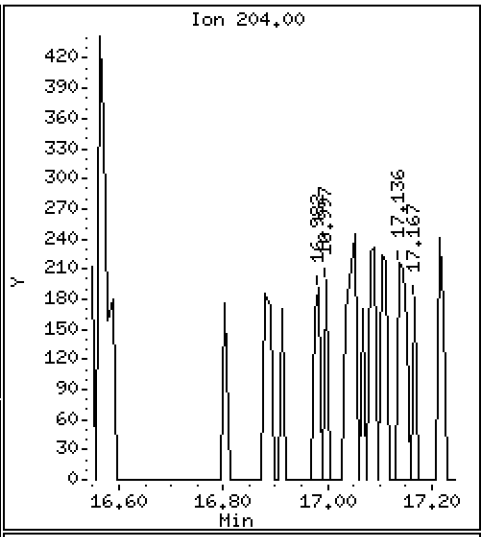
Column phase: ZB-5msi

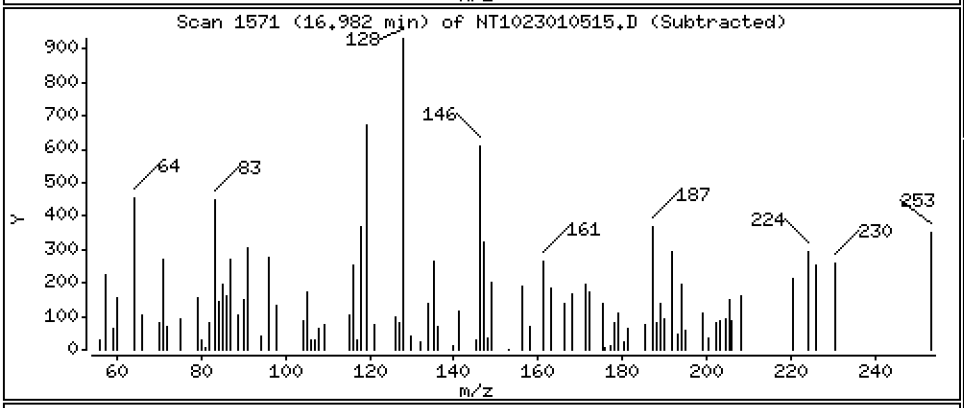
Column diameter: 0.25

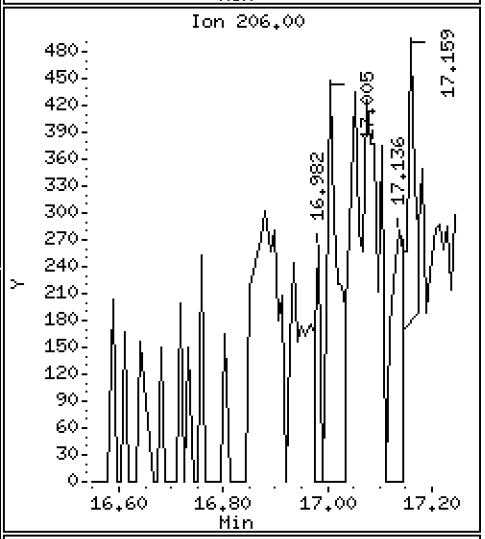
51 4-Chlorophenyl-phenylether

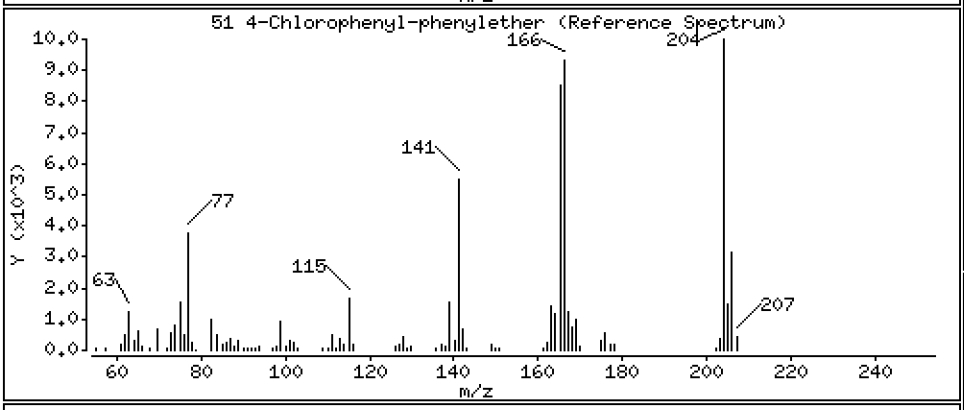
Concentration: 0.007202 ug/mL

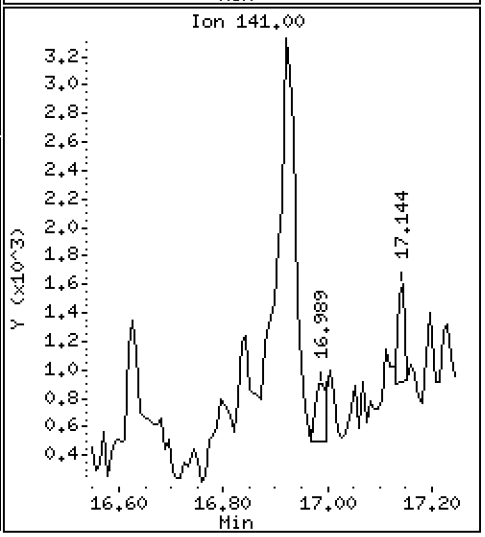


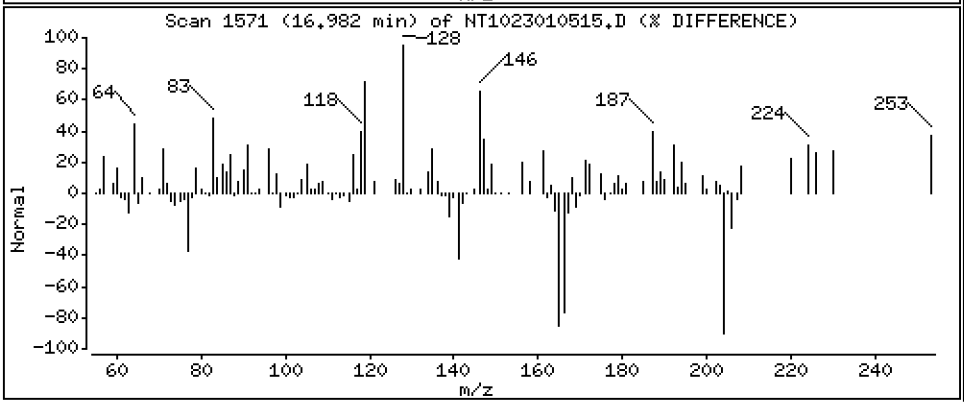












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

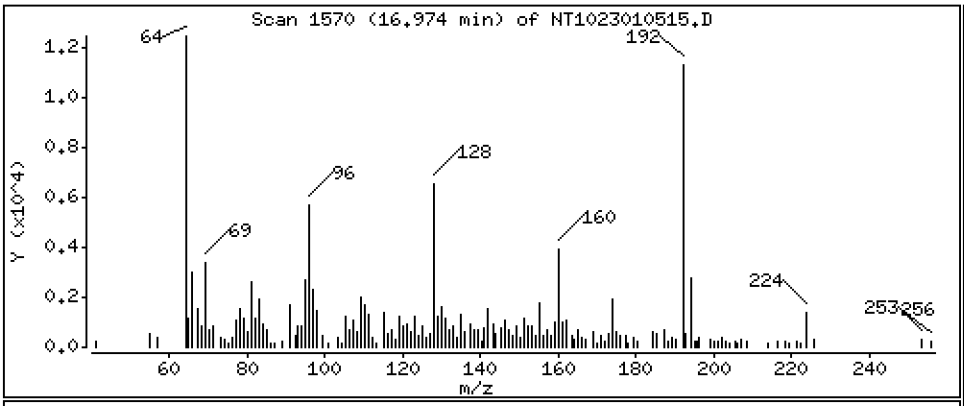
Operator: VTS

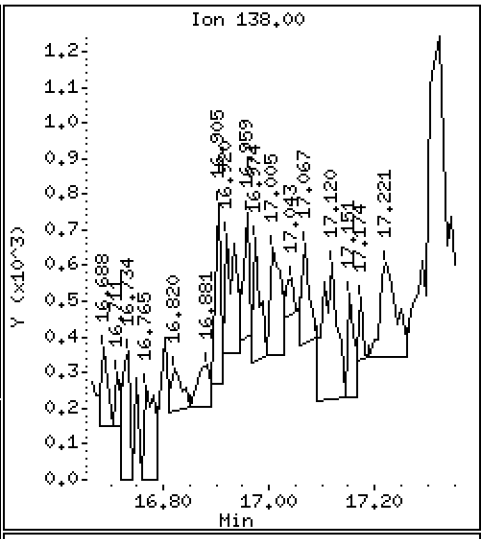
Column phase: ZB-5msi

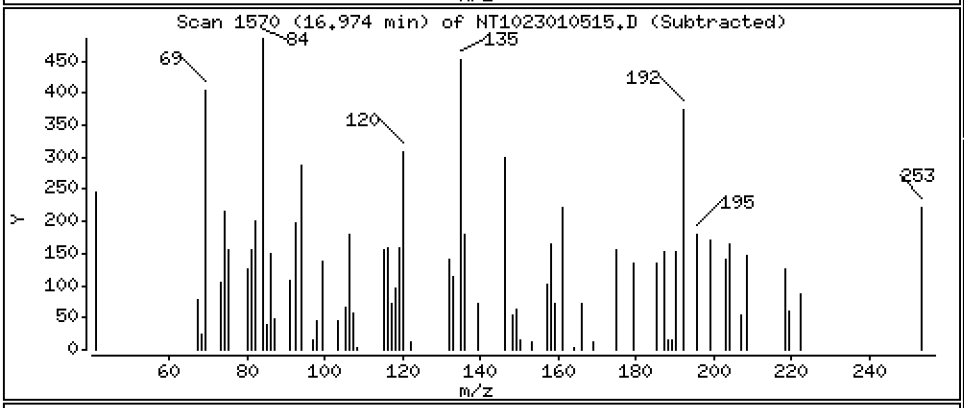
Column diameter: 0.25

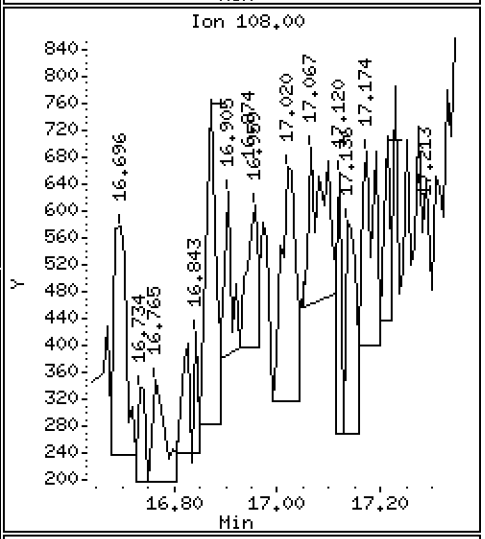
52 4-Nitroaniline

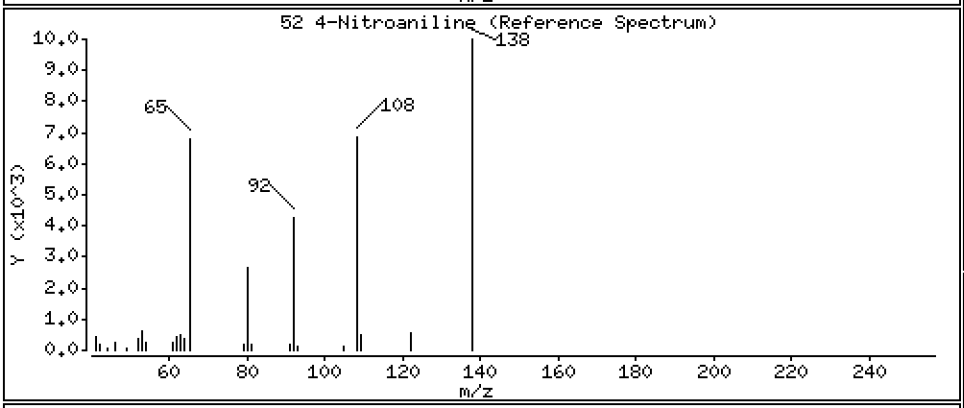
Concentration: 0.02142 ug/mL

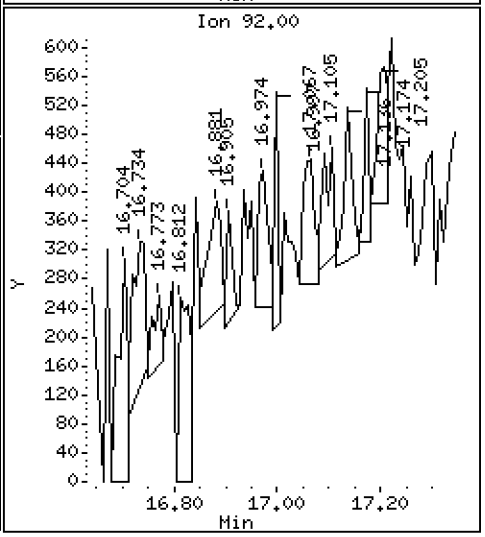


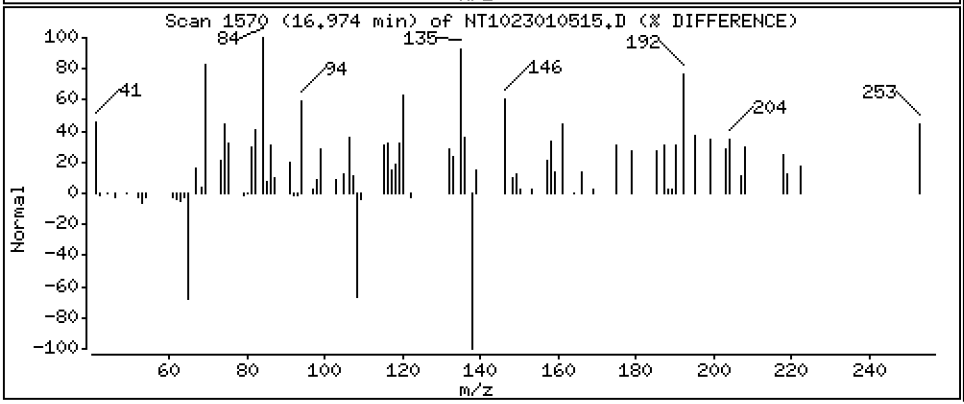












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

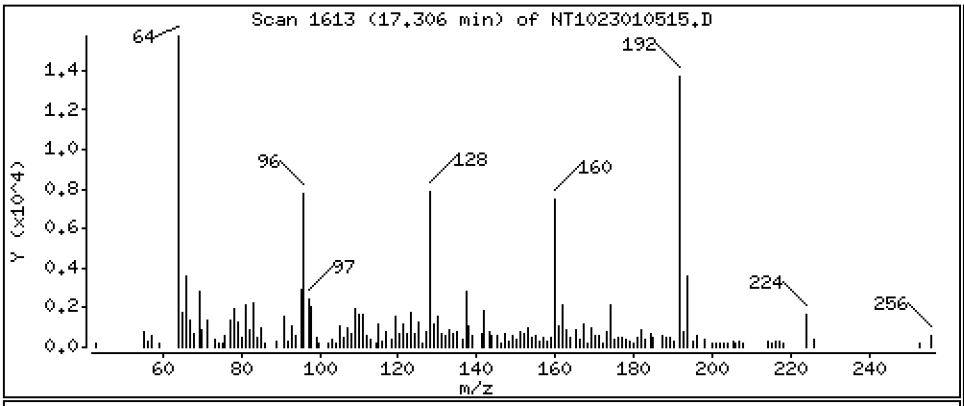
Operator: VTS

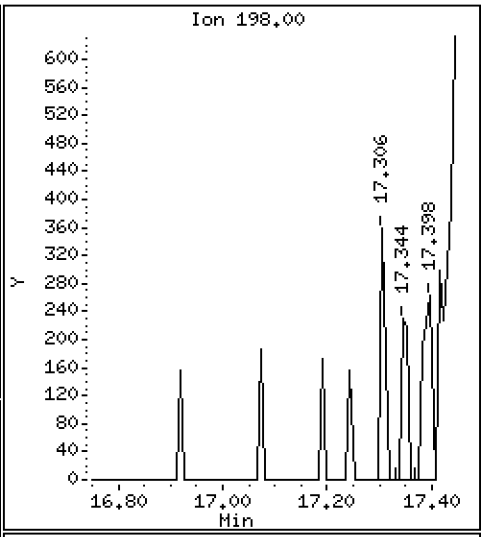
Column phase: ZB-5msi

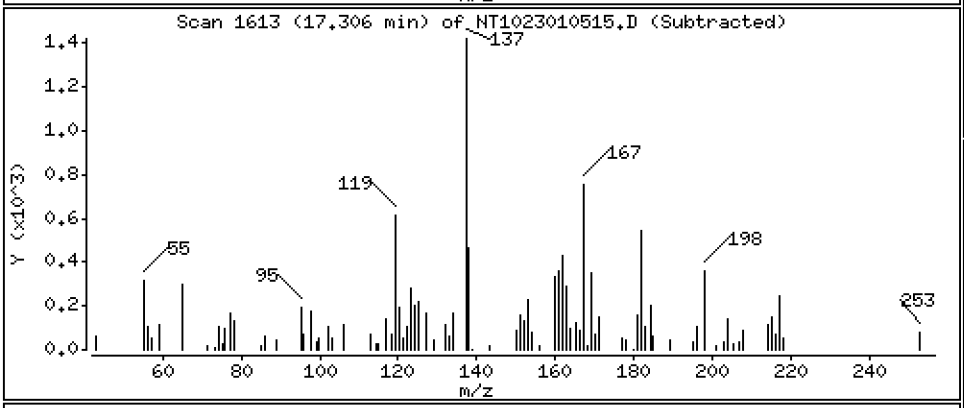
Column diameter: 0.25

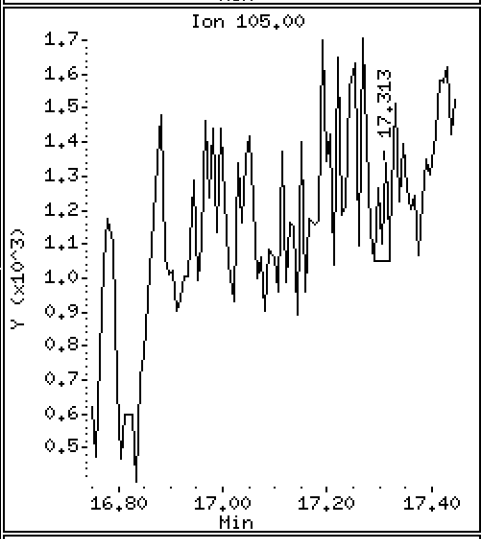
53 4,6-Dinitro-2-methylphenol

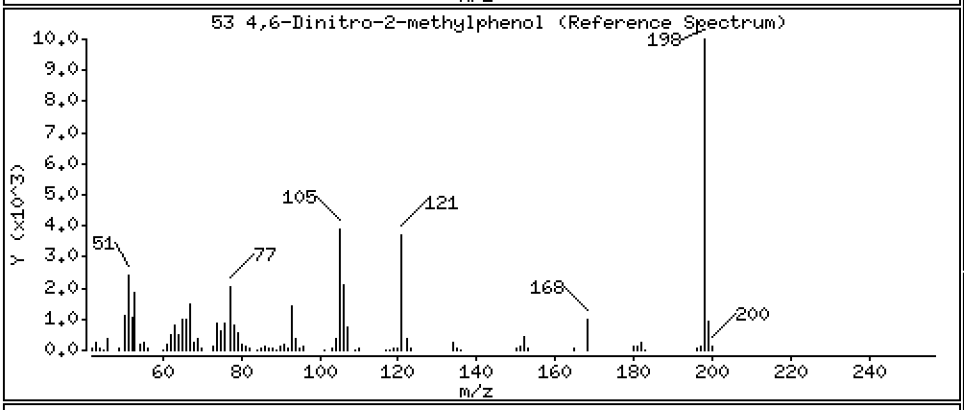
Concentration: 0.03025 ug/mL

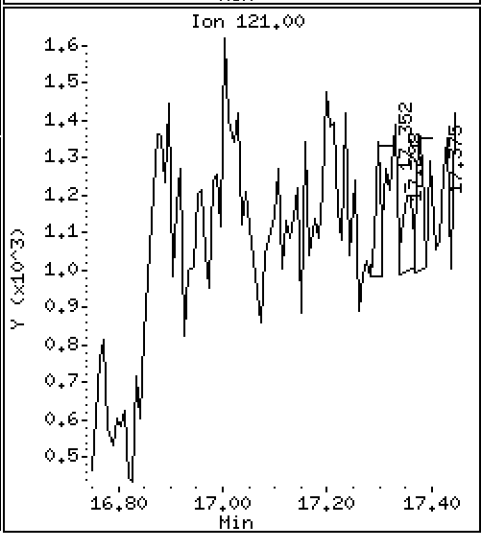


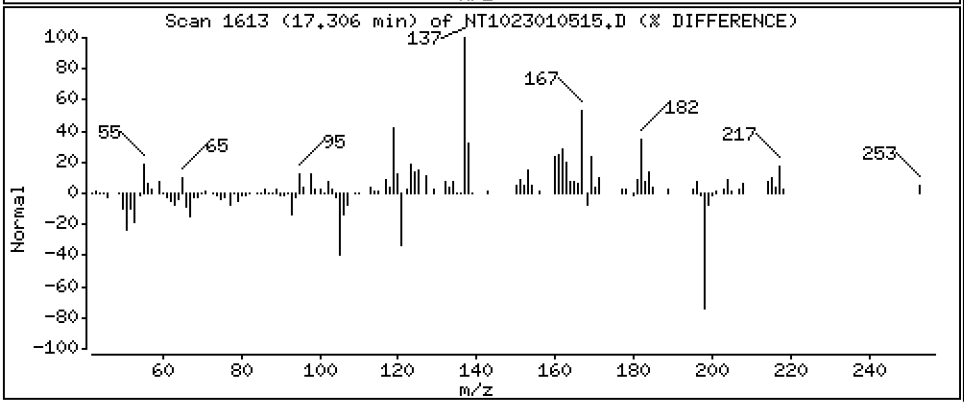












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

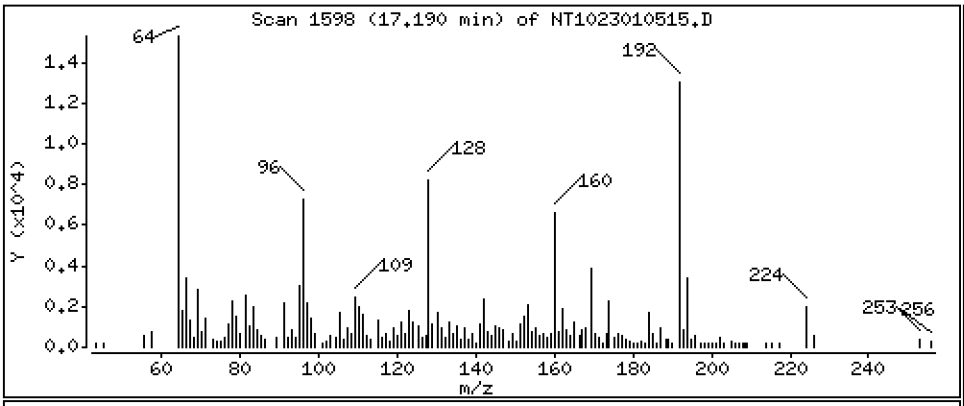
Operator: VTS

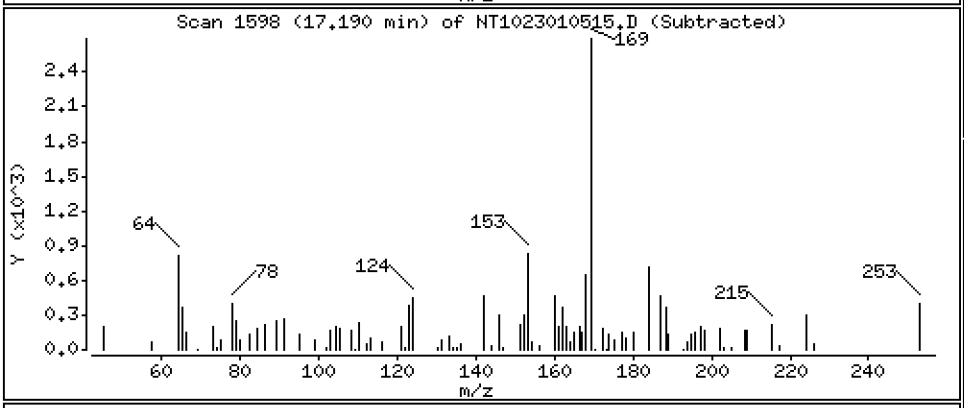
Column phase: ZB-5msi

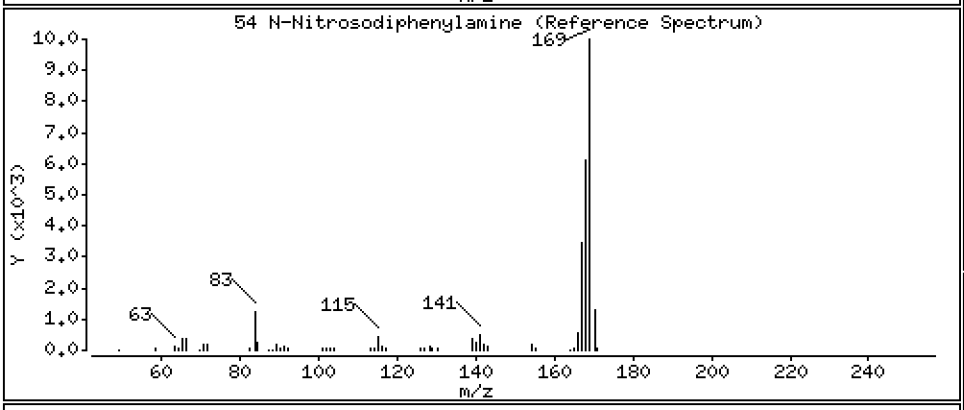
Column diameter: 0.25

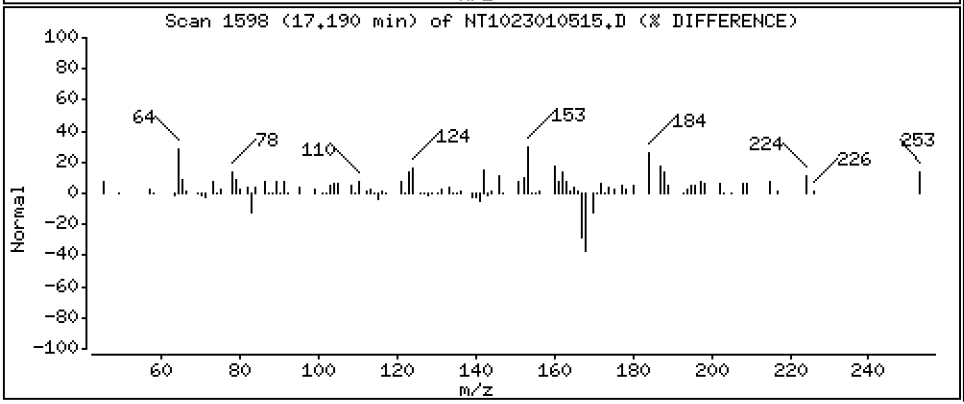
54 N-Nitrosodiphenylamine

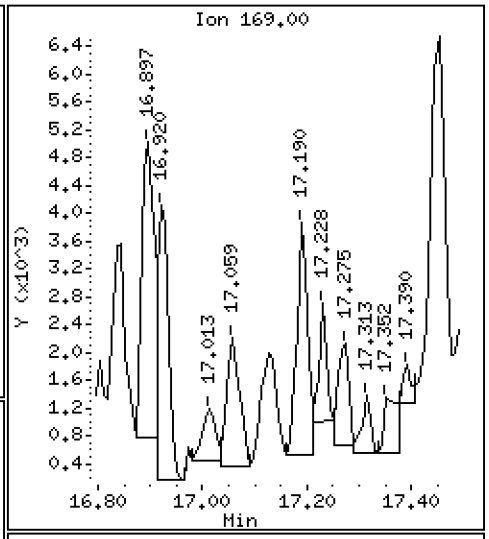
Concentration: 0.1436 ug/mL

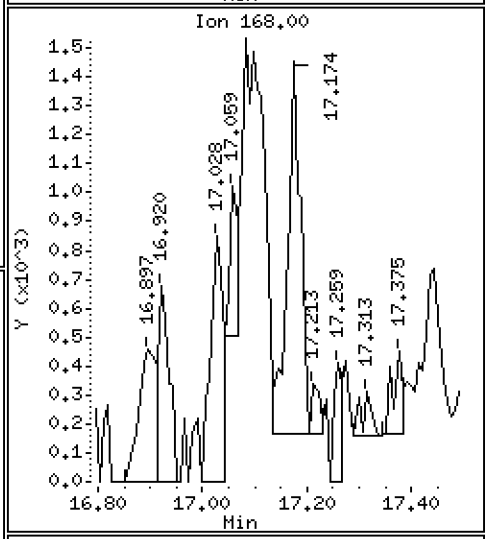


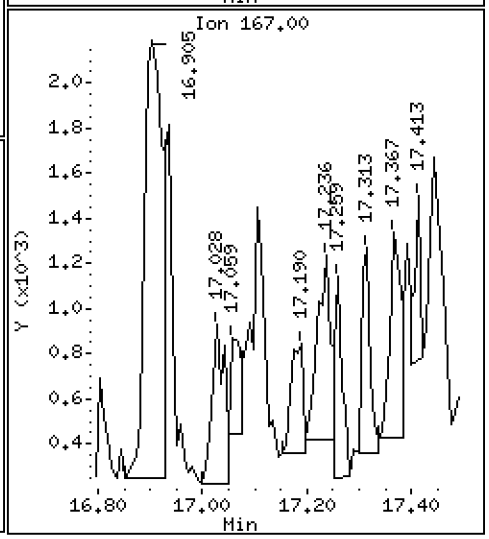












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

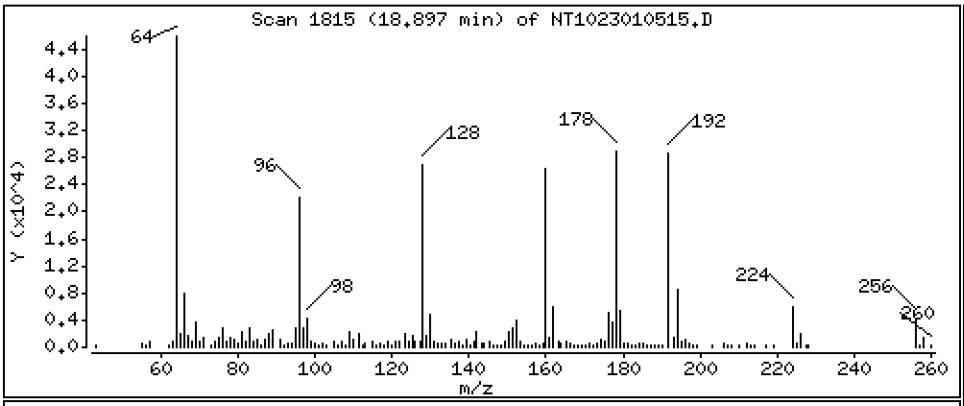
Operator: VTS

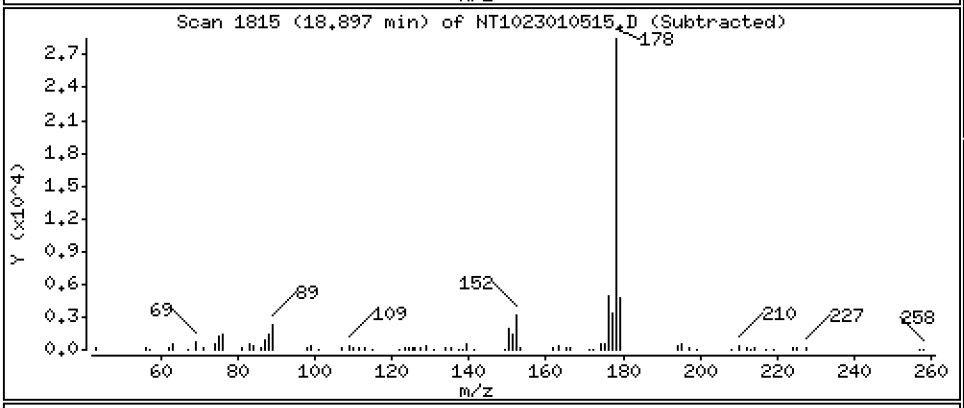
Column phase: ZB-5msi

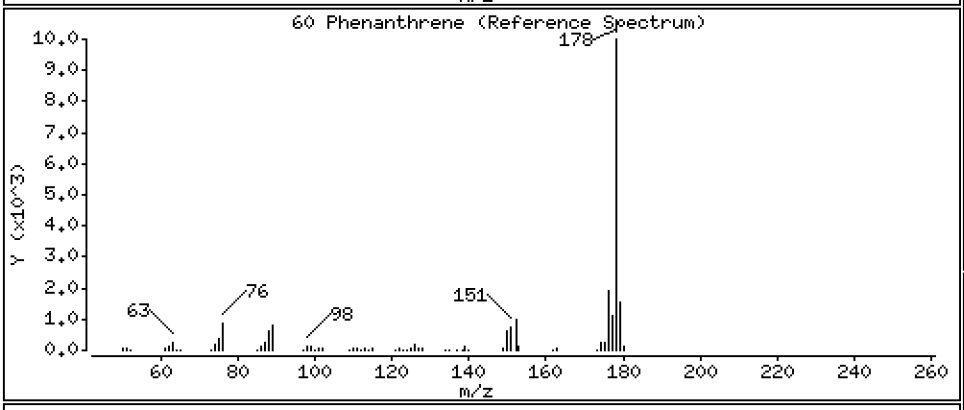
Column diameter: 0.25

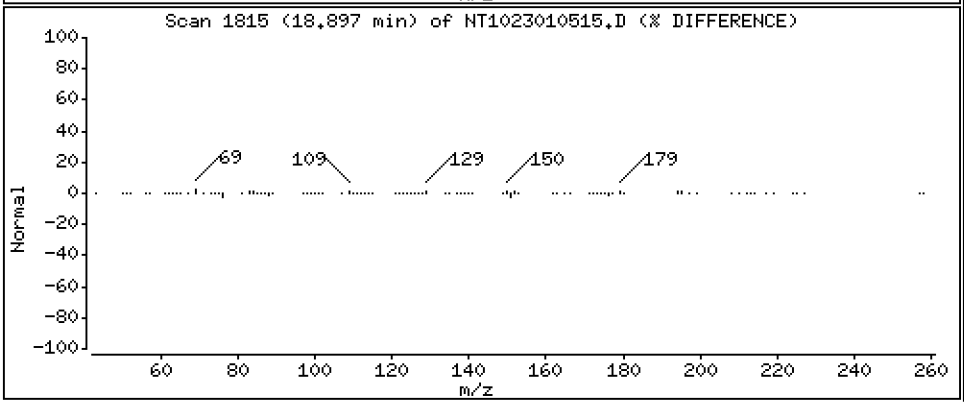
60 Phenanthrene

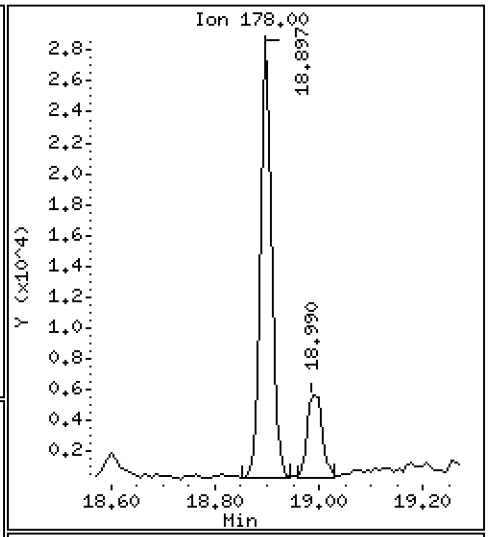
Concentration: 0.9376 ug/mL

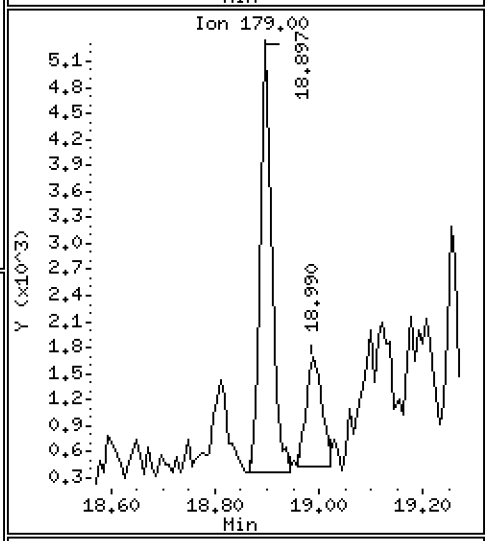


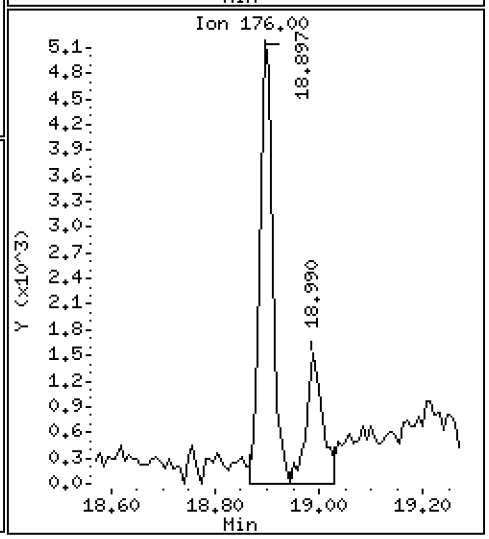












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

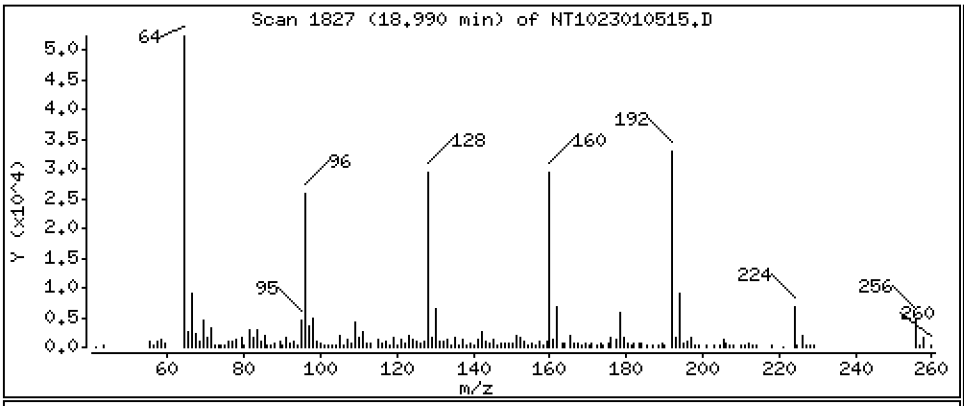
Operator: VTS

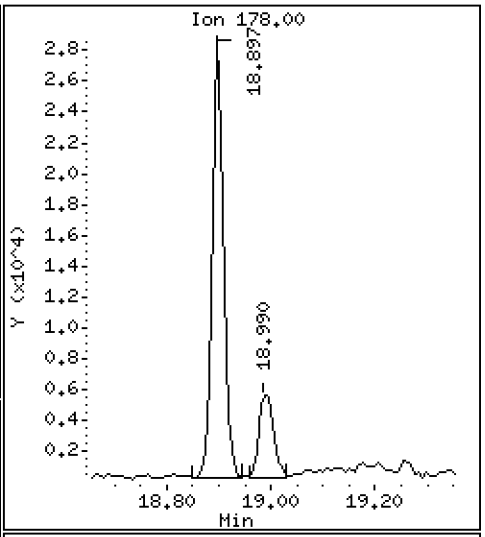
Column phase: ZB-5msi

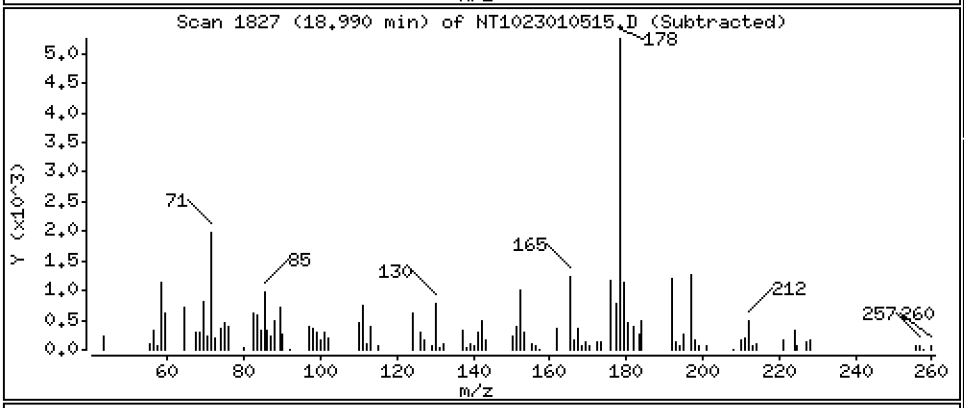
Column diameter: 0.25

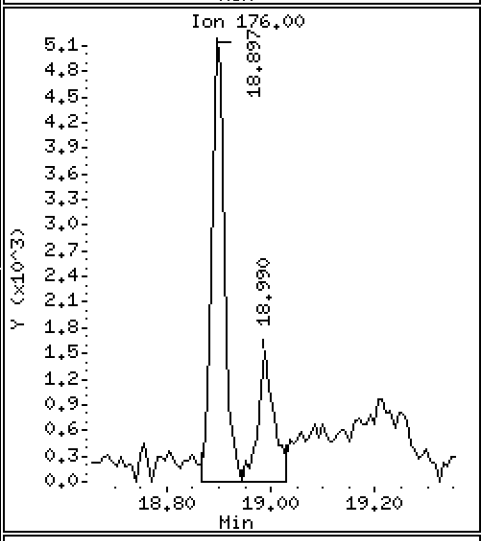
61 Anthracene

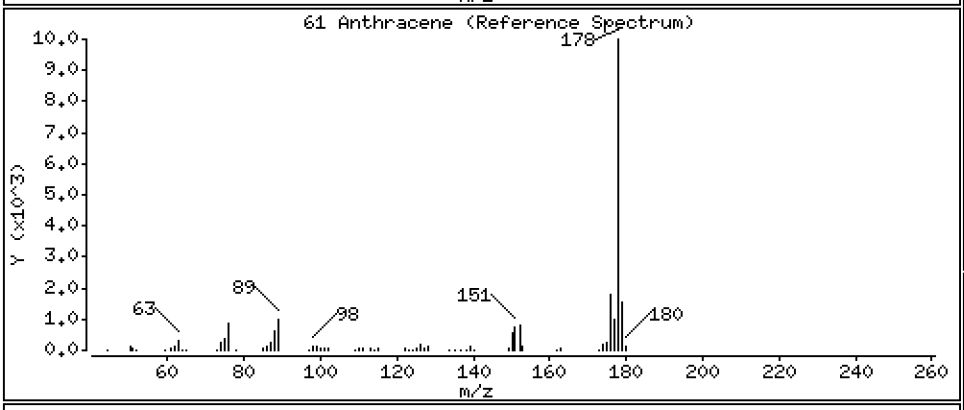
Concentration: 0.2222 ug/mL

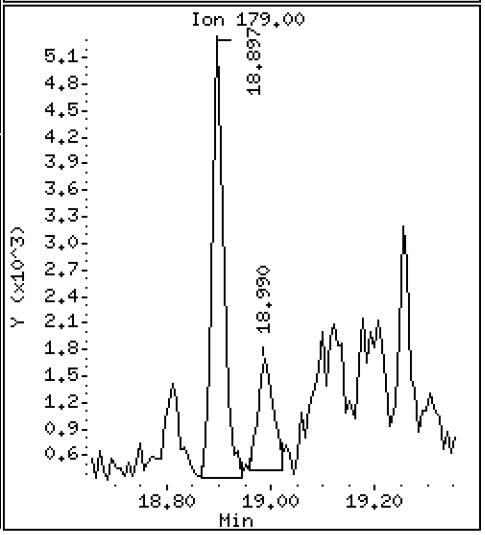


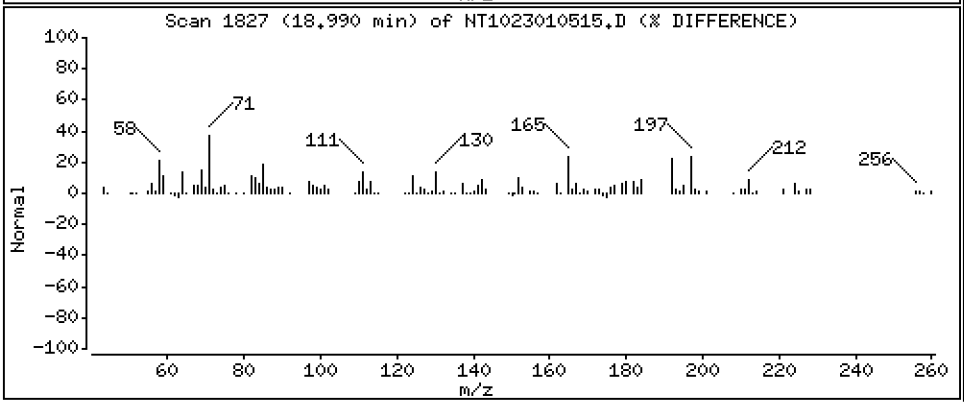












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

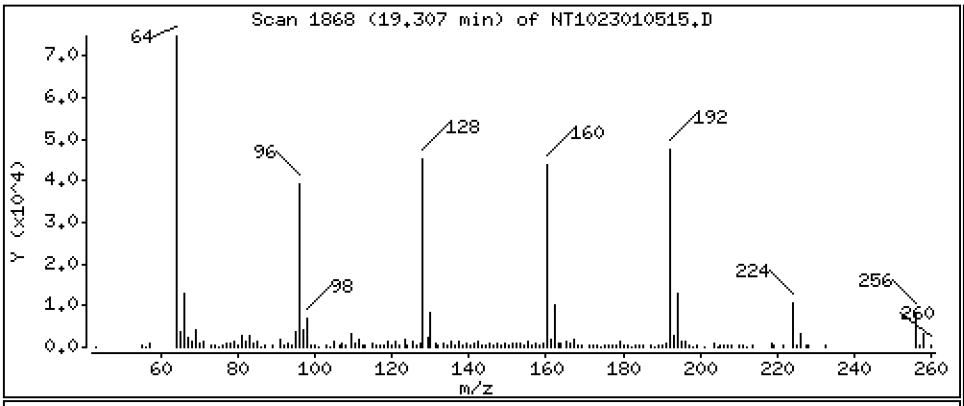
Operator: VTS

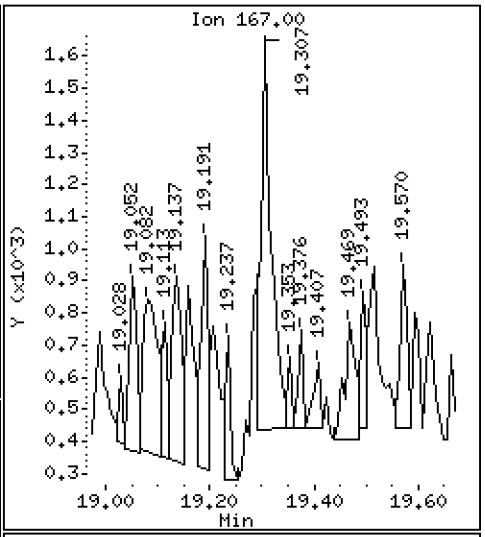
Column phase: ZB-5msi

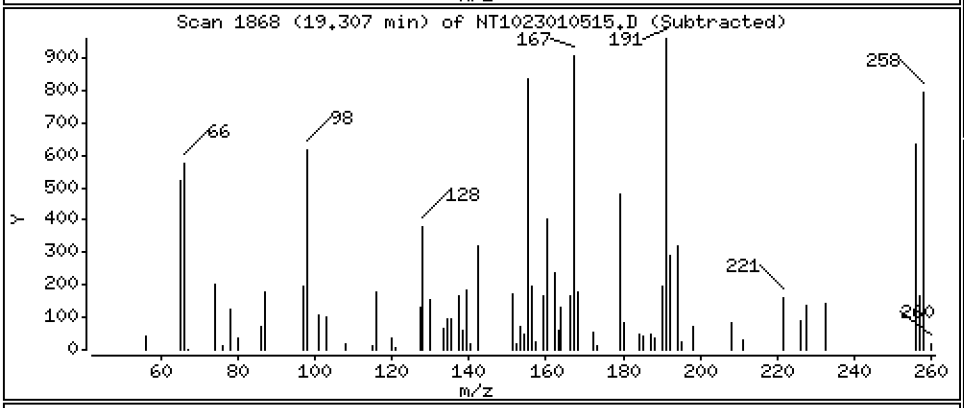
Column diameter: 0.25

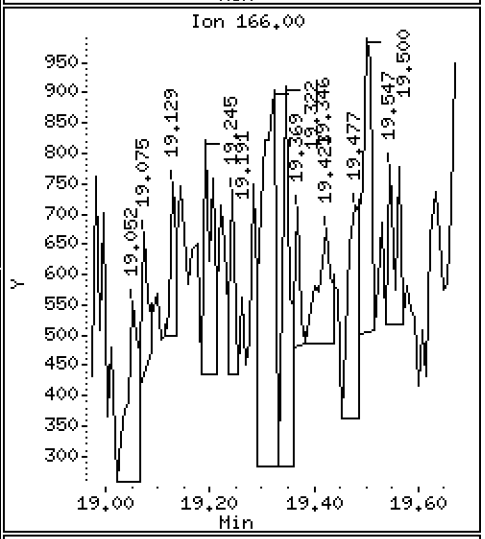
62 Carbazole

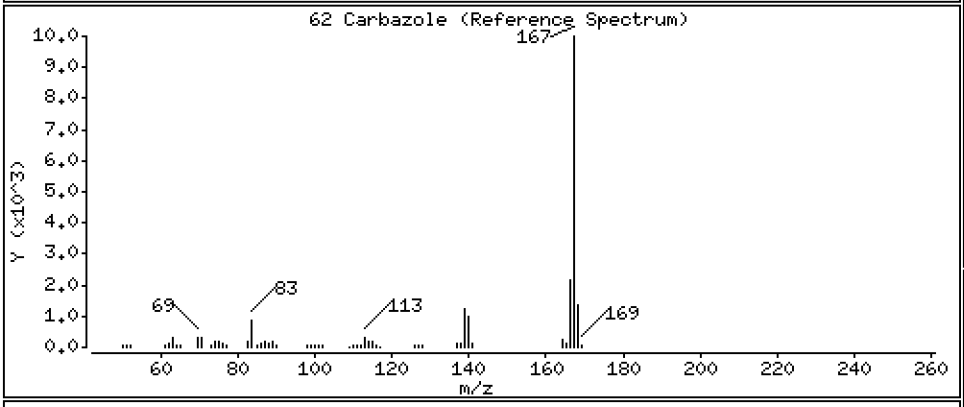
Concentration: 0.03556 ug/mL

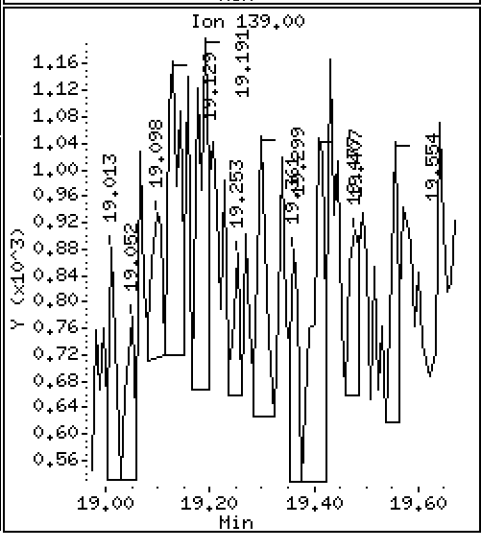


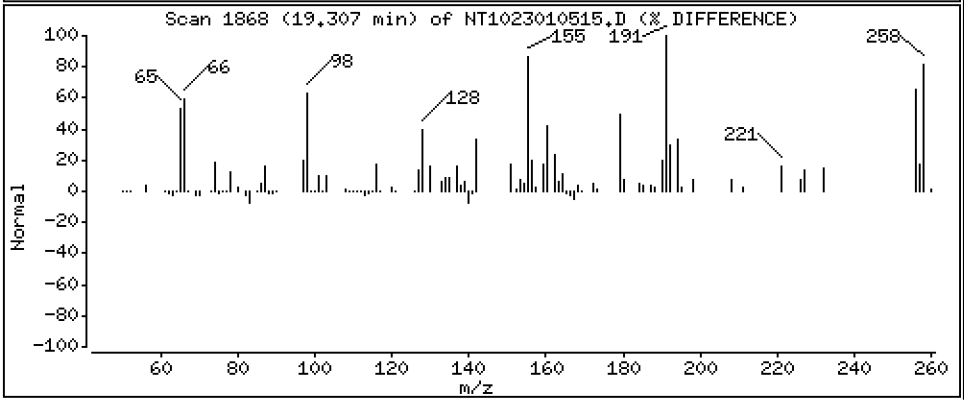












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

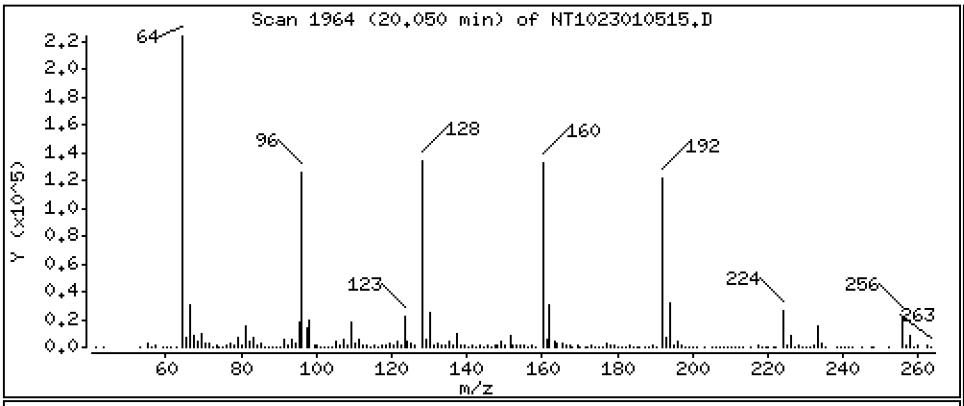
Operator: VTS

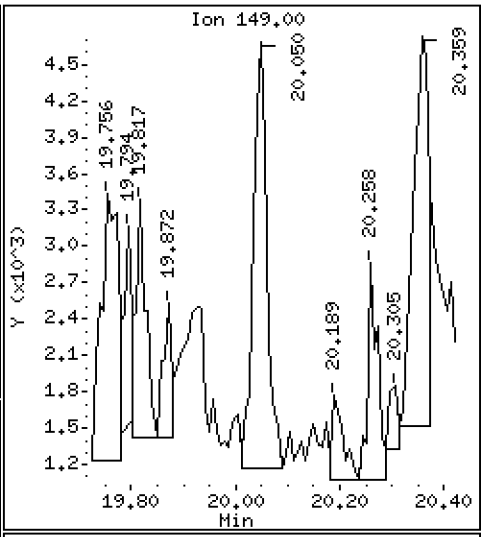
Column phase: ZB-5msi

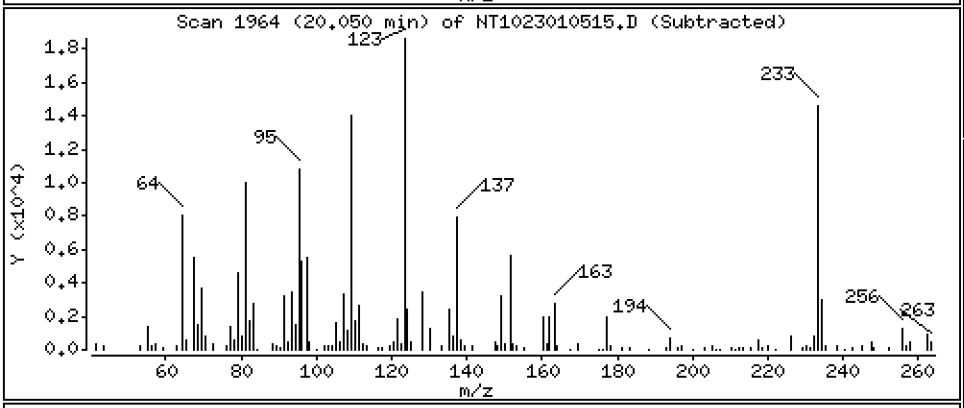
Column diameter: 0.25

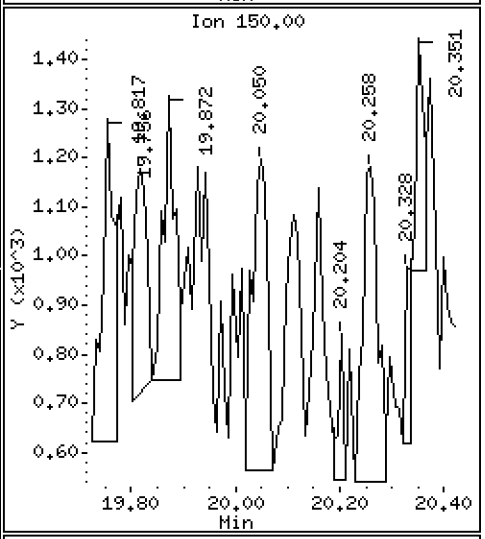
63 Di-n-butylphthalate

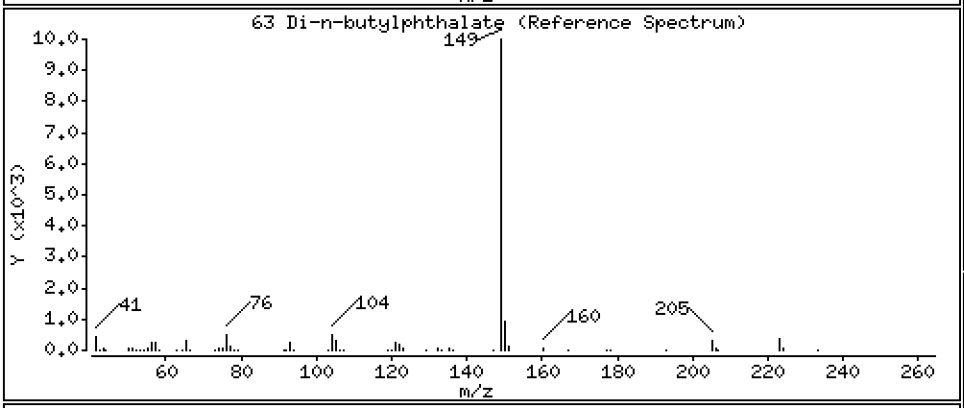
Concentration: 0.1029 ug/mL

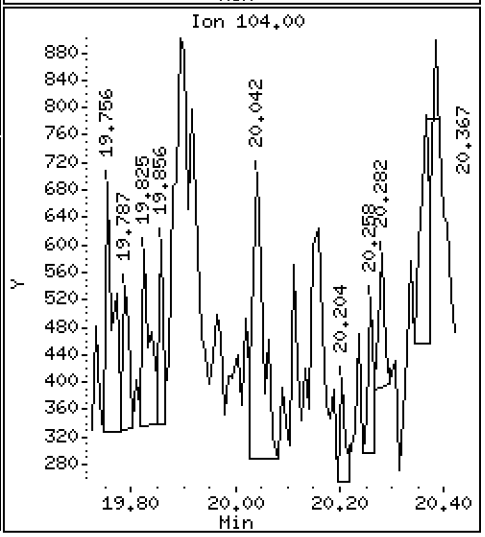


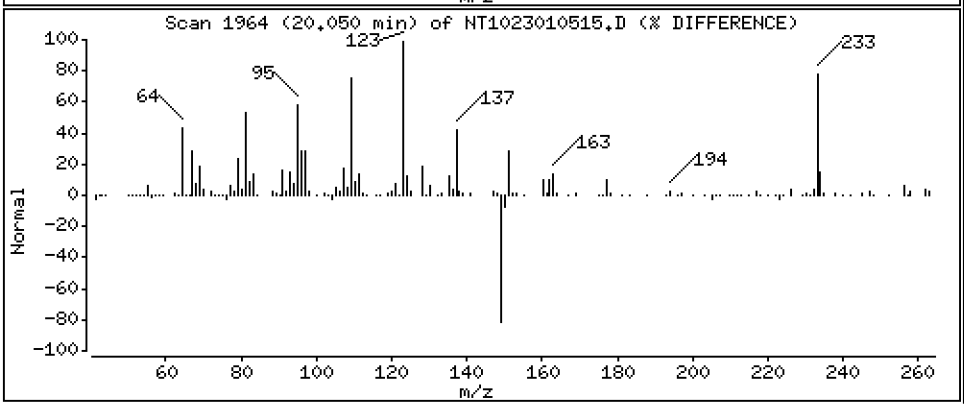












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

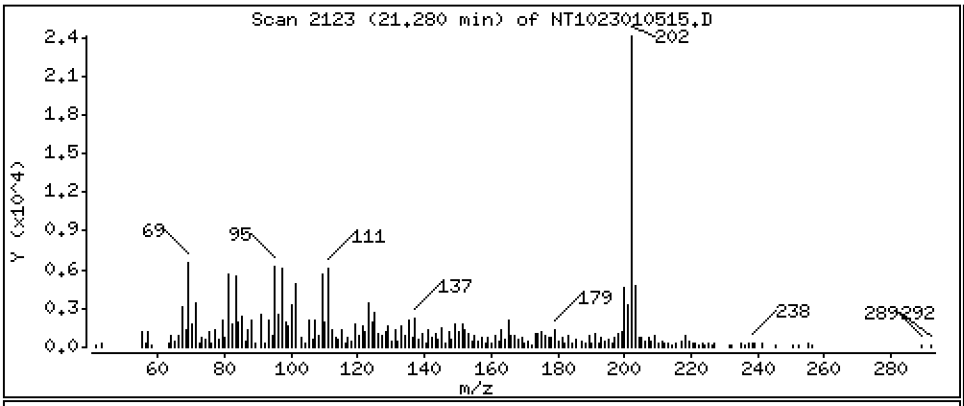
Operator: VTS

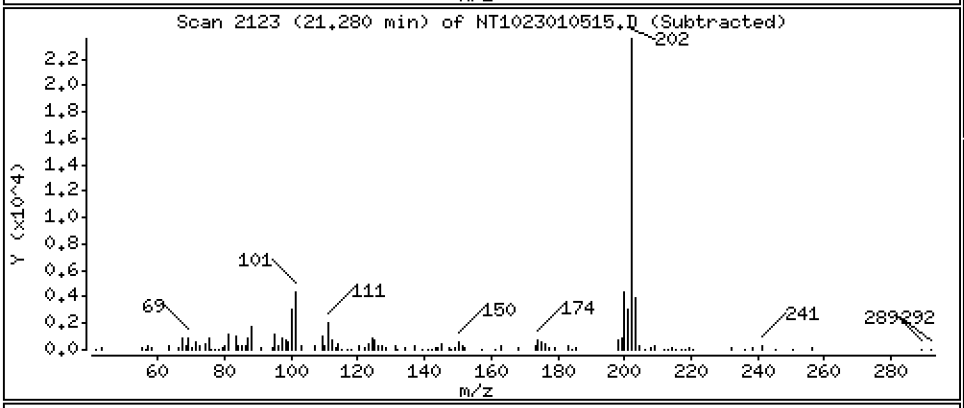
Column phase: ZB-5msi

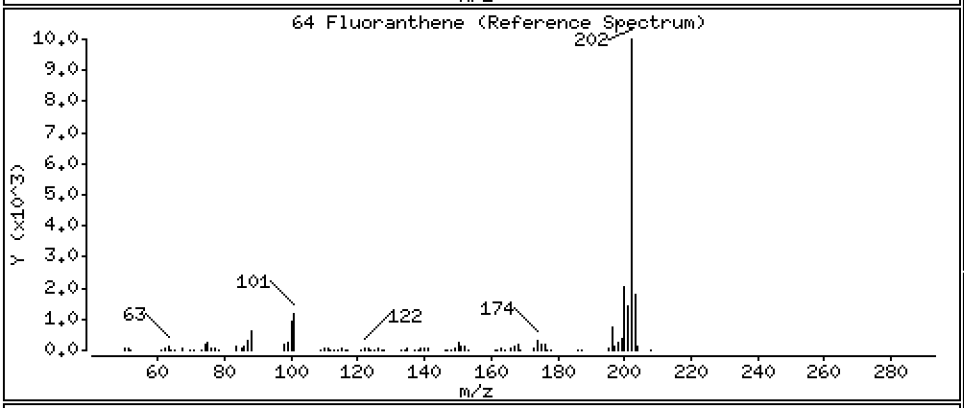
Column diameter: 0.25

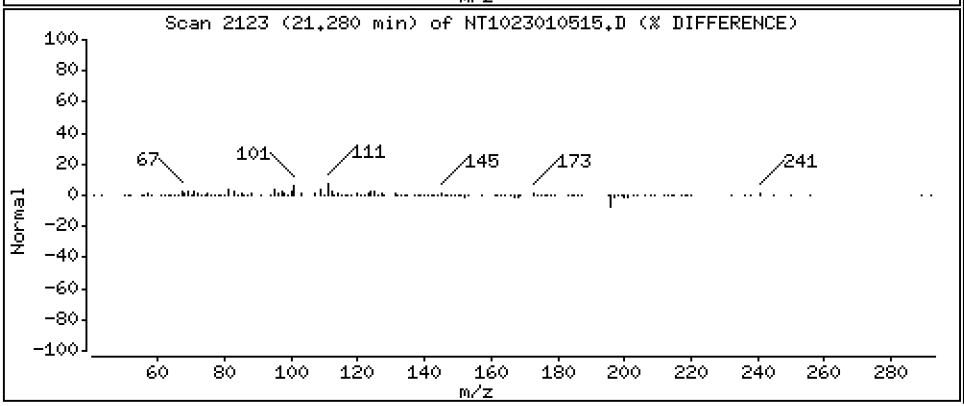
64 Fluoranthene

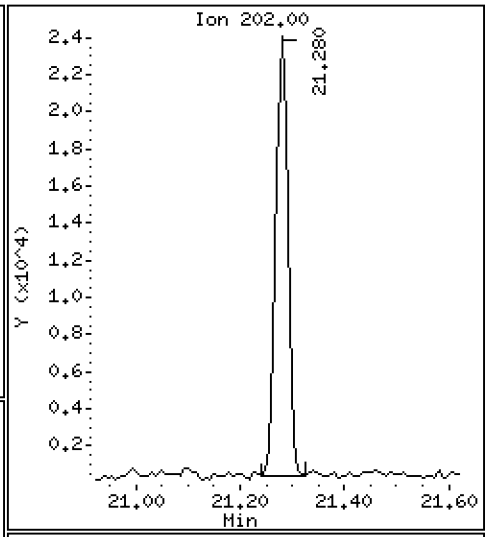
Concentration: 1.026 ug/mL

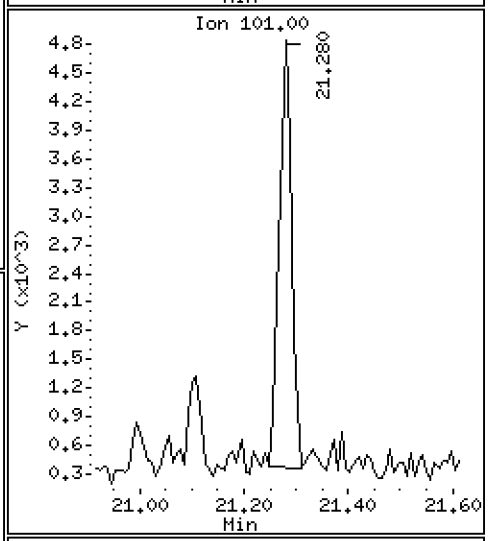


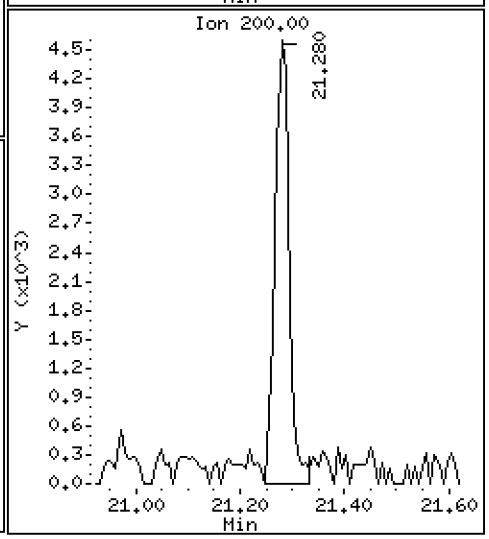












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

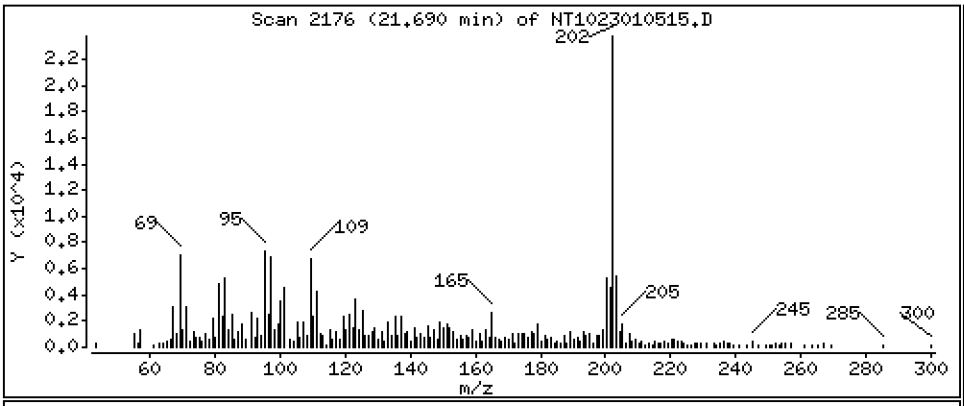
Operator: VTS

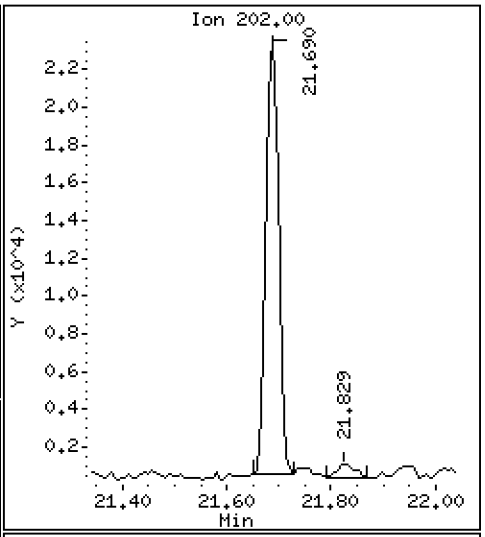
Column phase: ZB-5msi

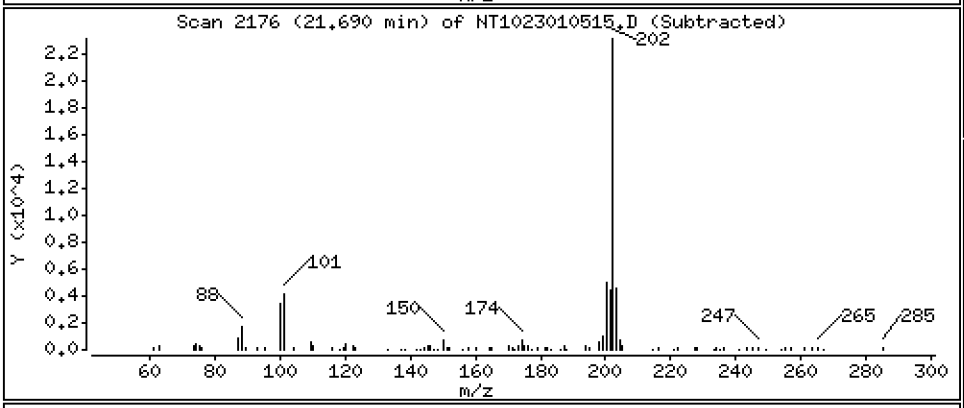
Column diameter: 0.25

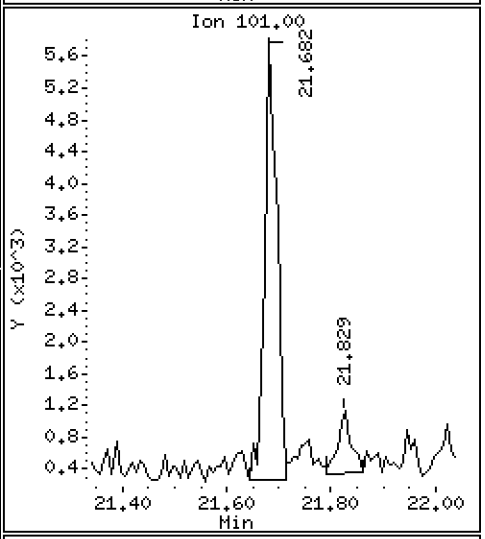
65 Pyrene

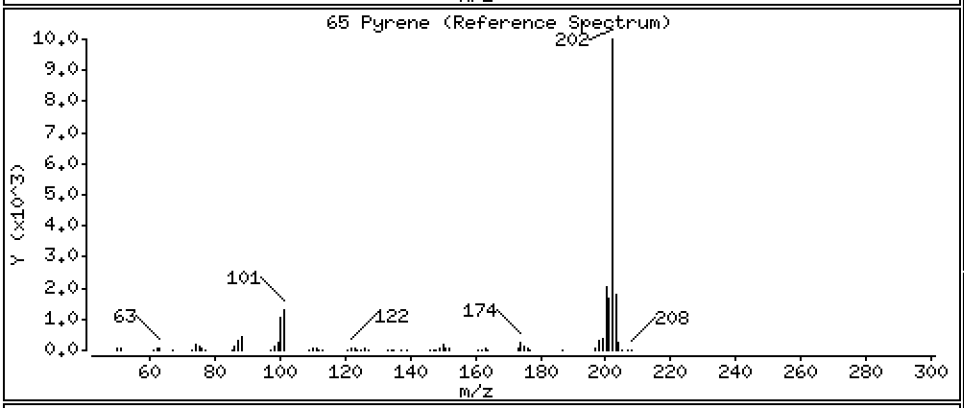
Concentration: 1.025 ug/mL

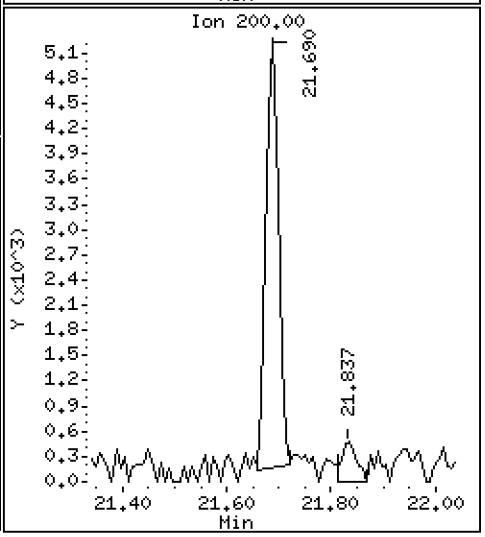


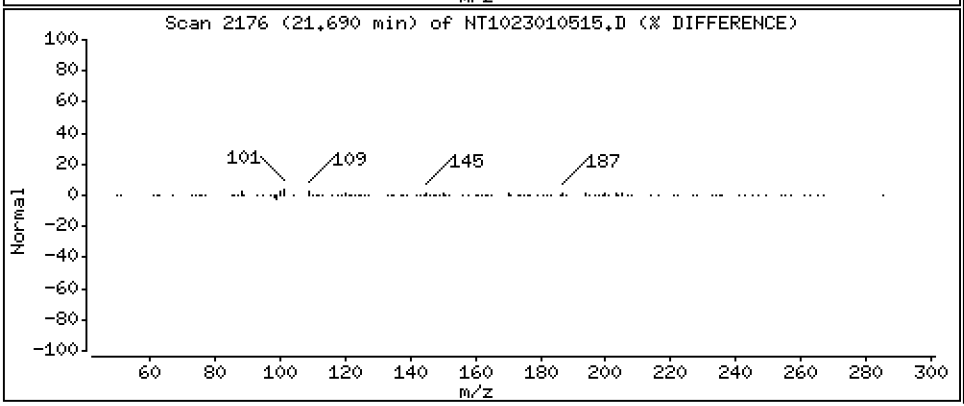












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

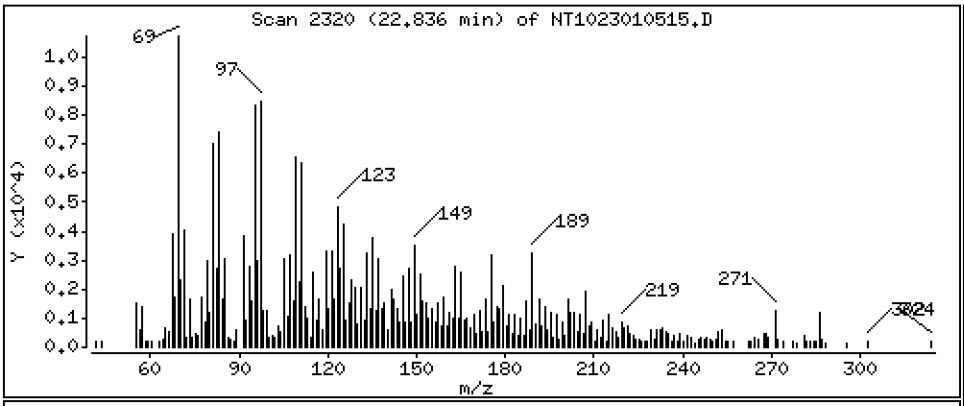
Operator: VTS

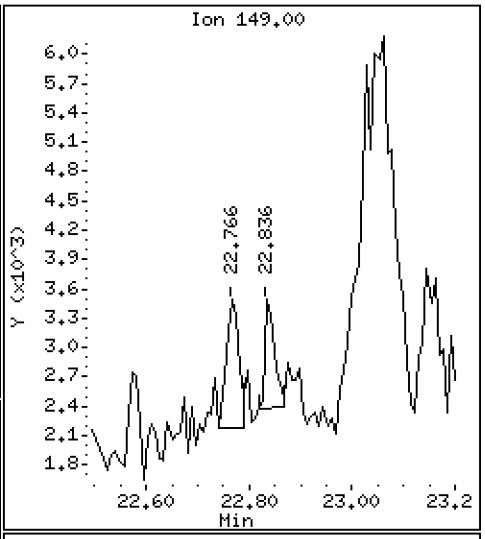
Column phase: ZB-5msi

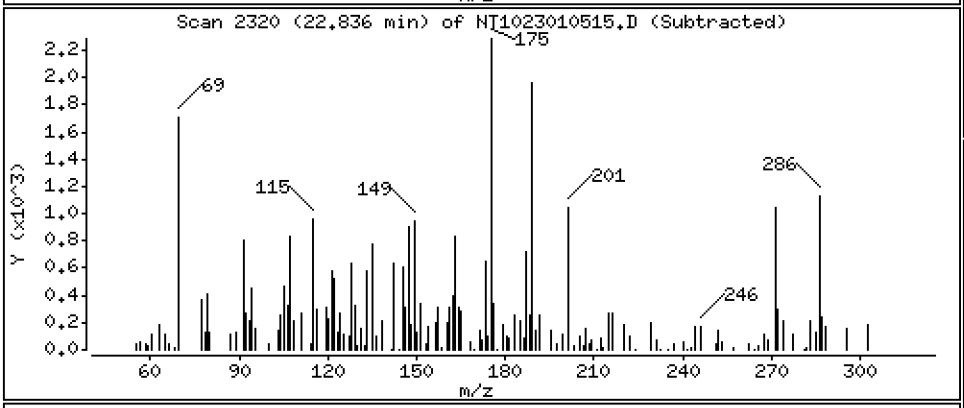
Column diameter: 0.25

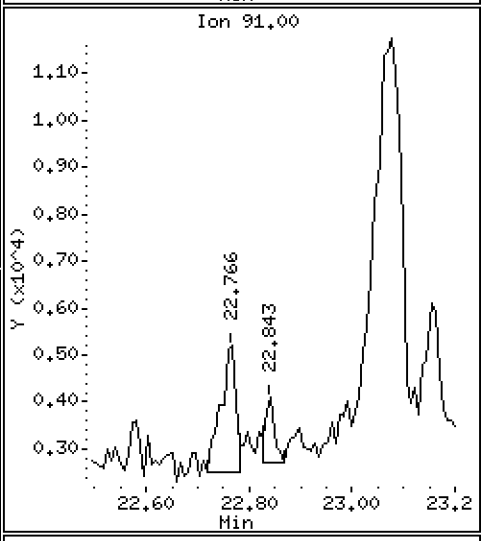
67 Butylbenzylphthalate

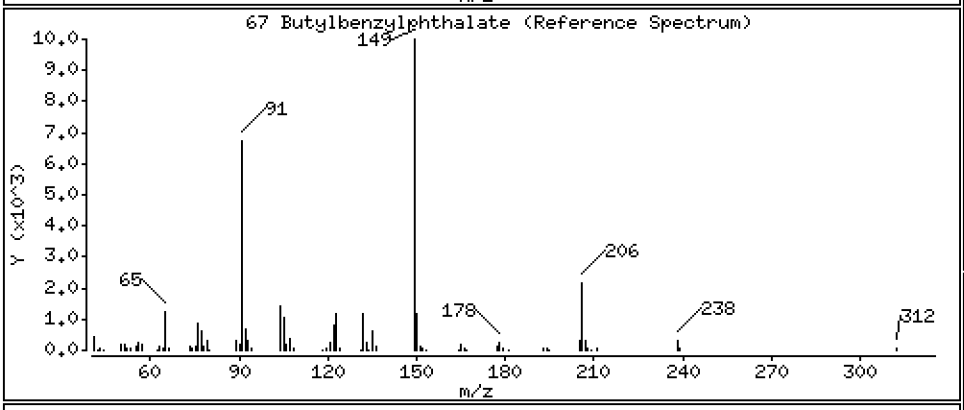
Concentration: 0.07010 ug/mL

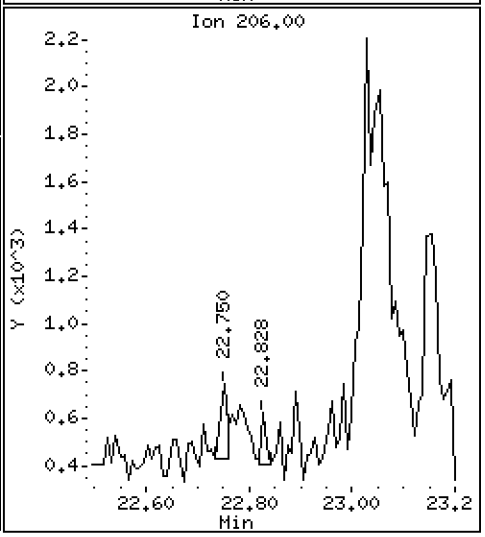


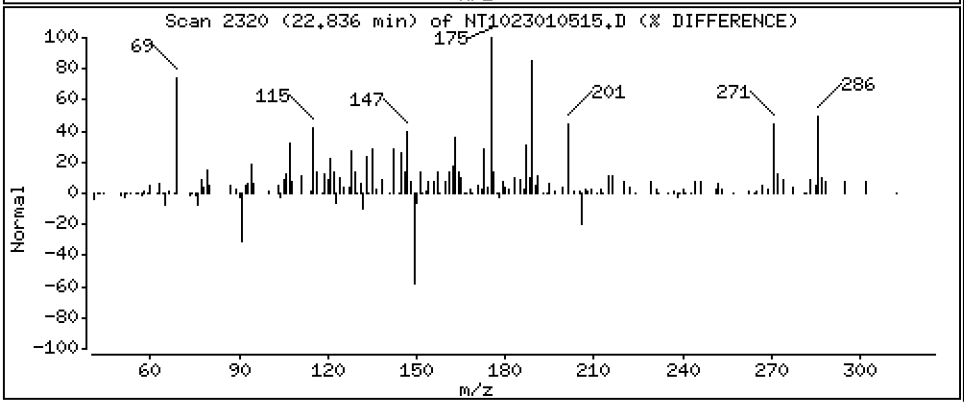












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010515.D

Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

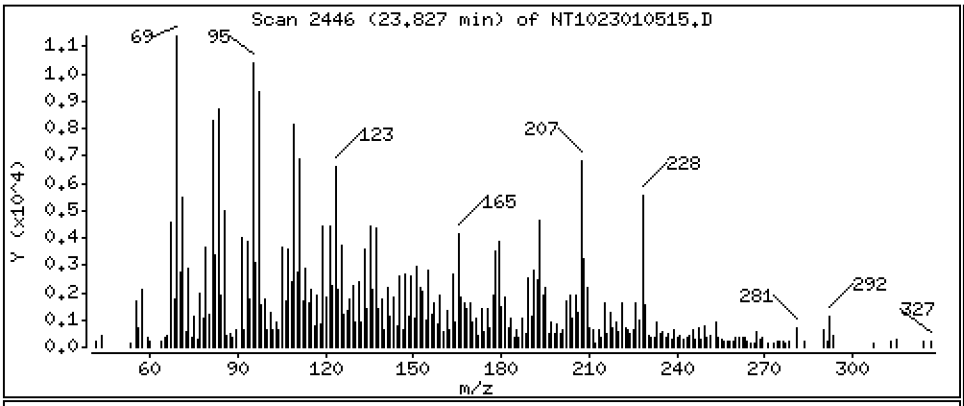
Operator: VTS

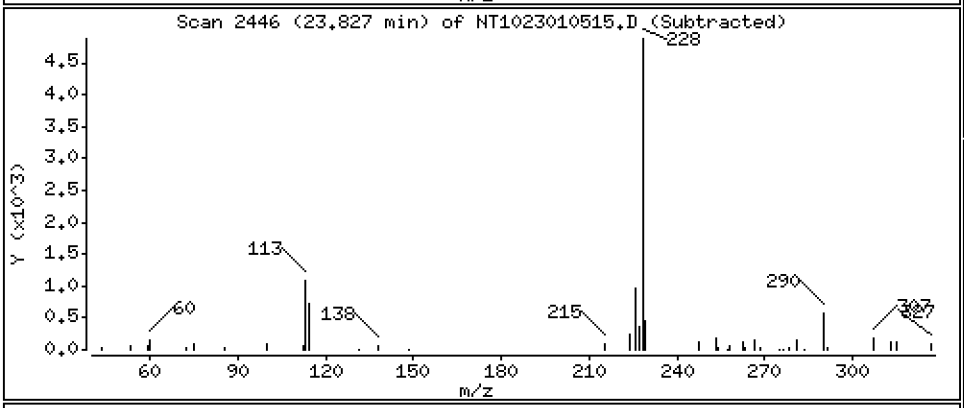
Column phase: ZB-5msi

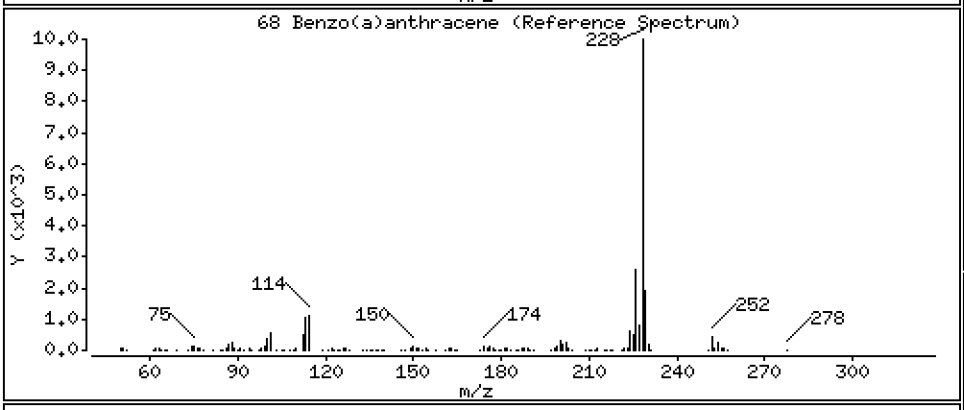
Column diameter: 0.25

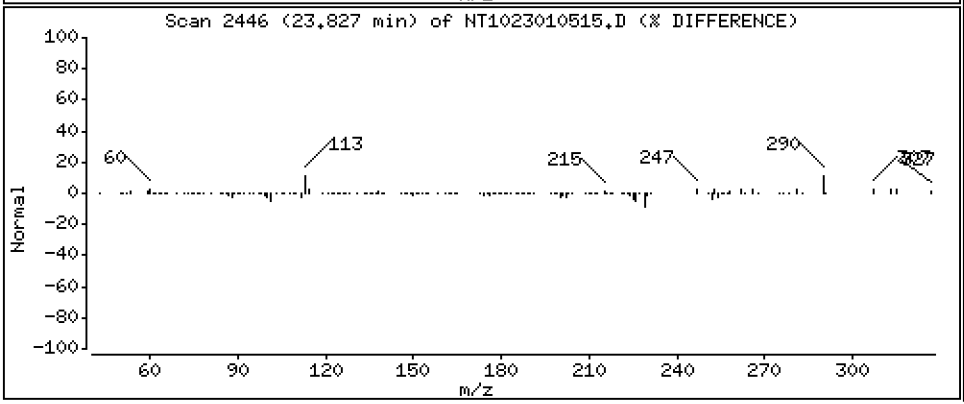
68 Benzo(a)anthracene

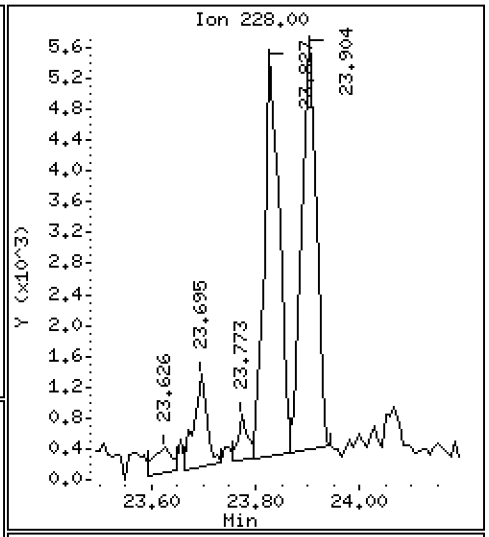
Concentration: 0.4682 ug/mL

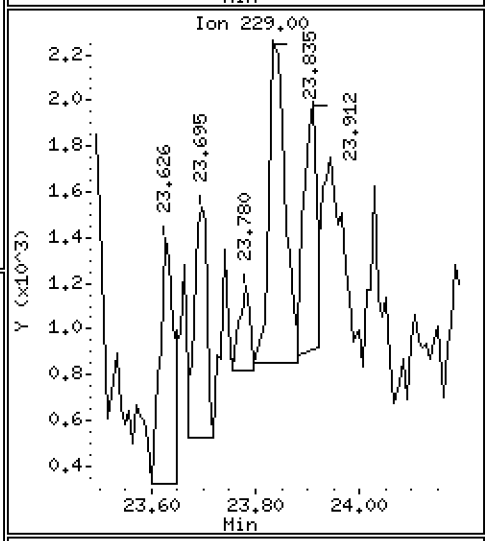


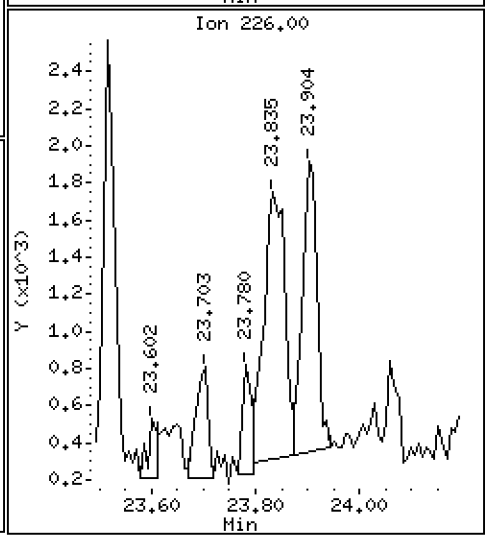












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010515.D

Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

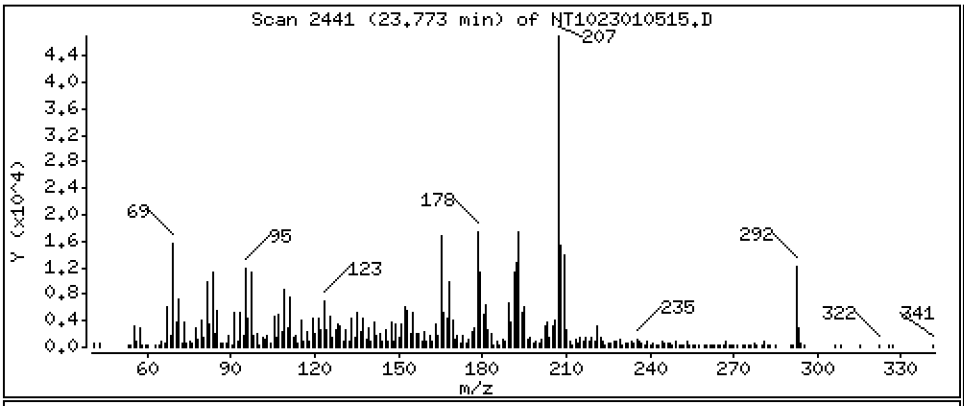
Operator: VTS

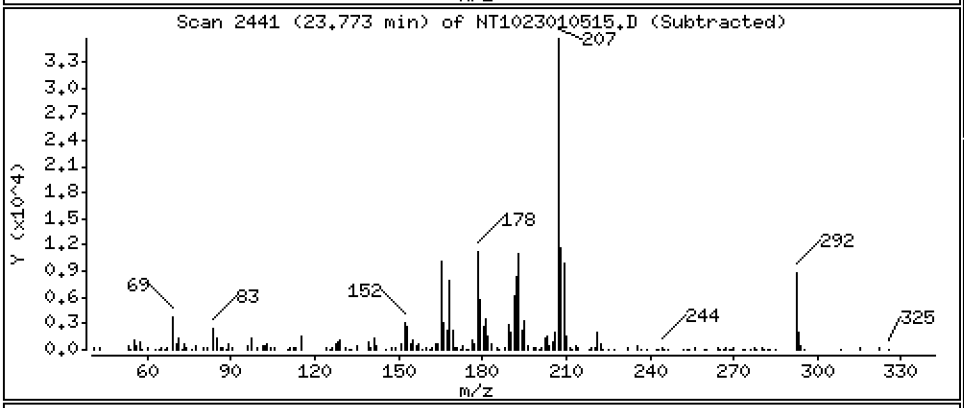
Column phase: ZB-5msi

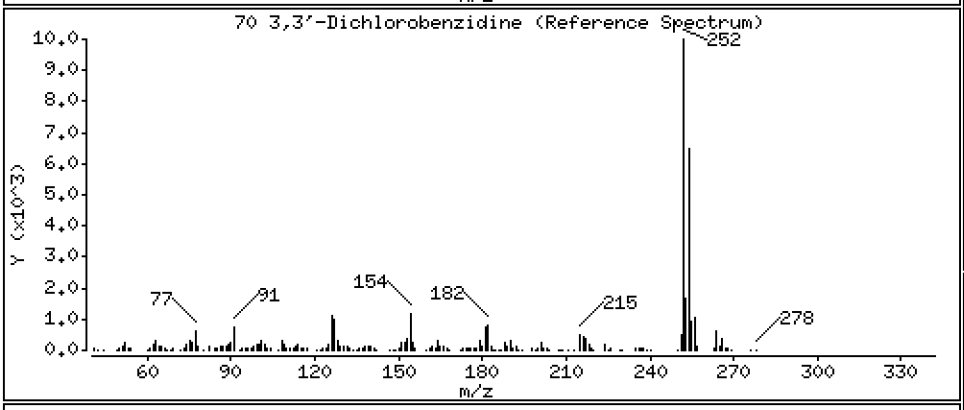
Column diameter: 0.25

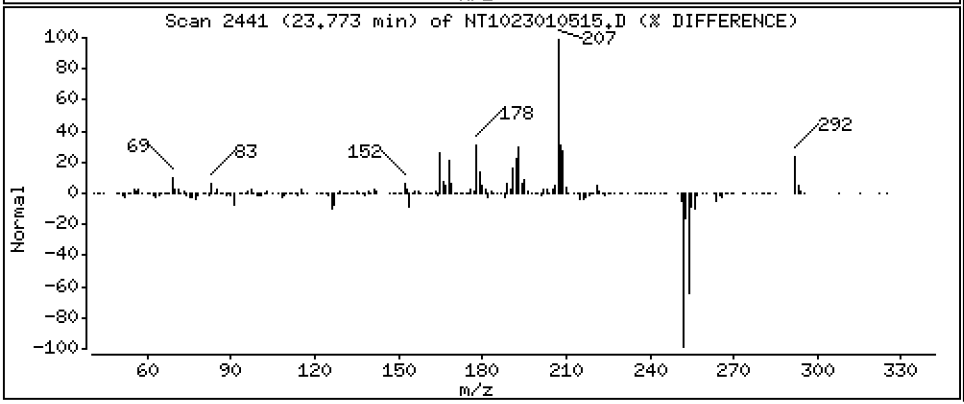
70 3,3'-Dichlorobenzidine

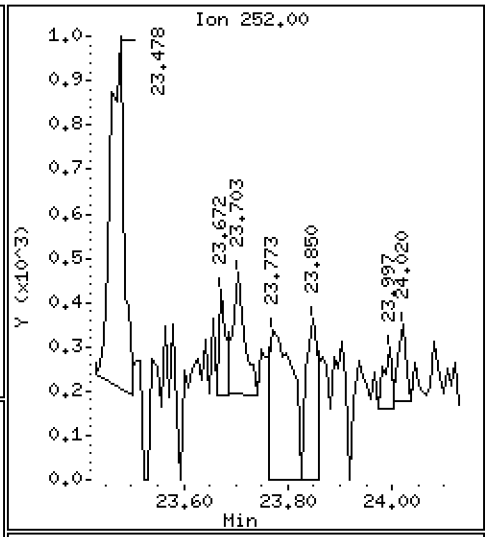
Concentration: 0.1178 ug/mL

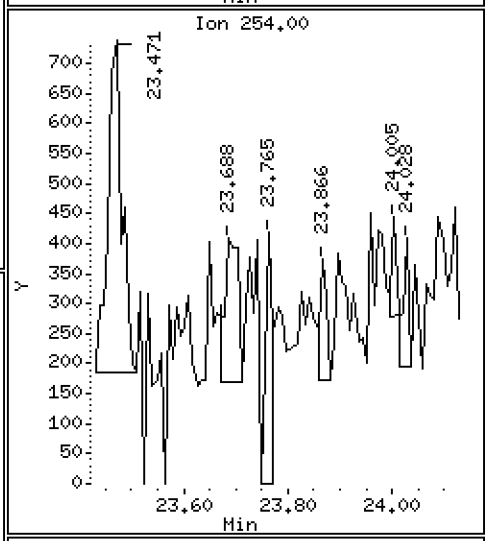


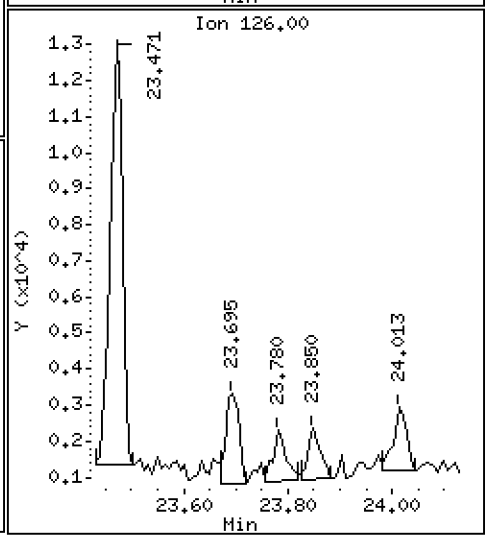












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

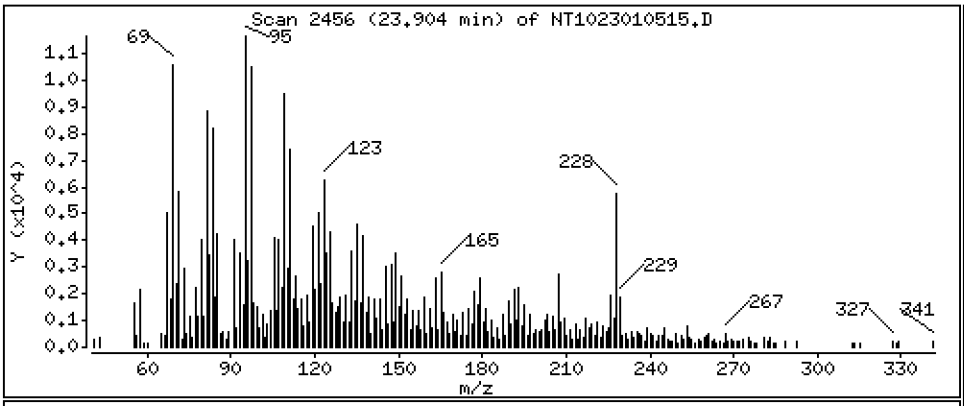
Operator: VTS

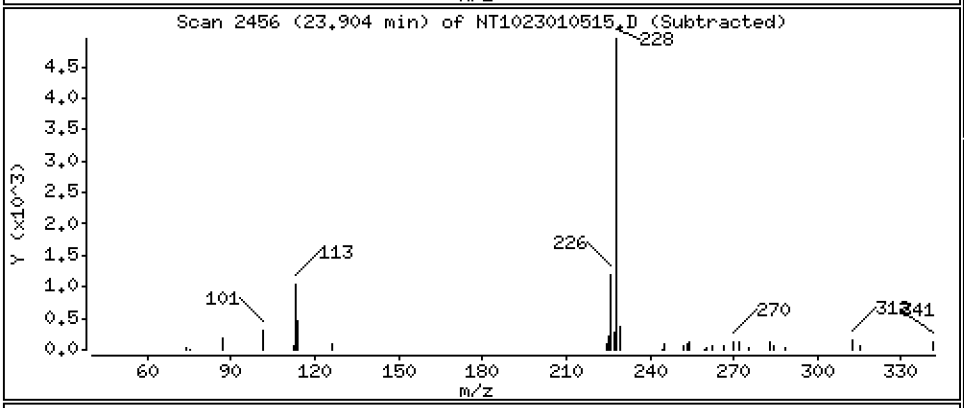
Column phase: ZB-5msi

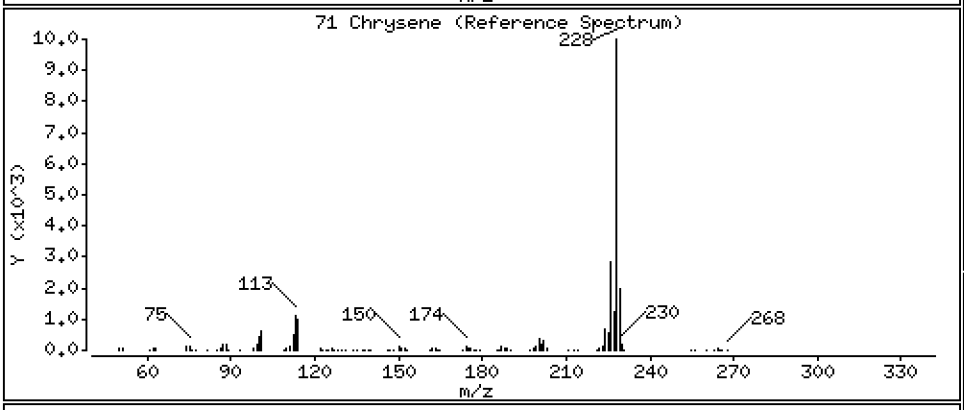
Column diameter: 0.25

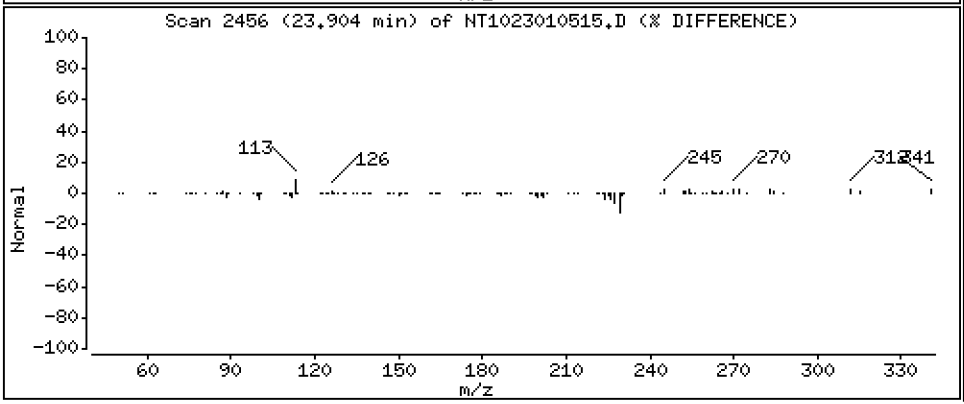
71 Chrysene

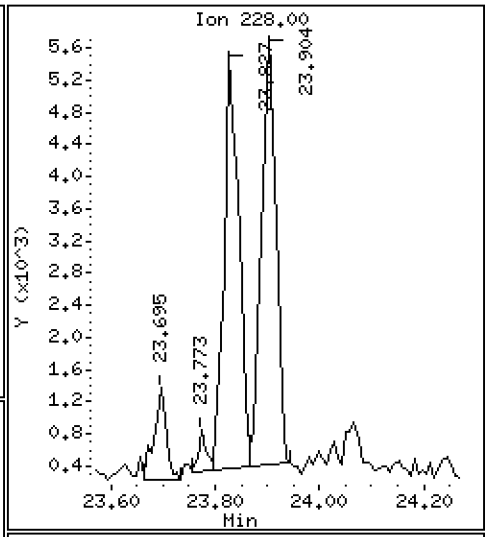
Concentration: 0.4552 ug/mL

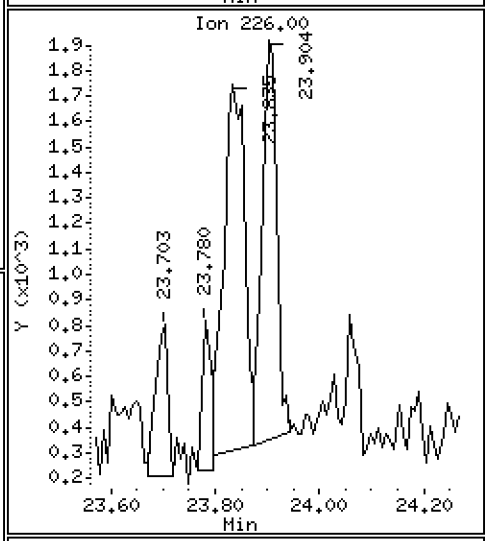


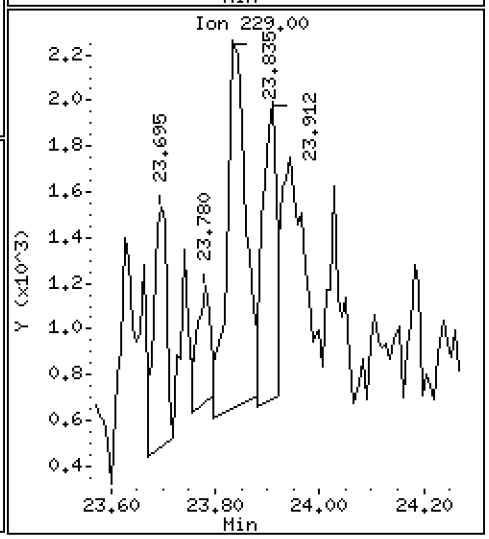












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

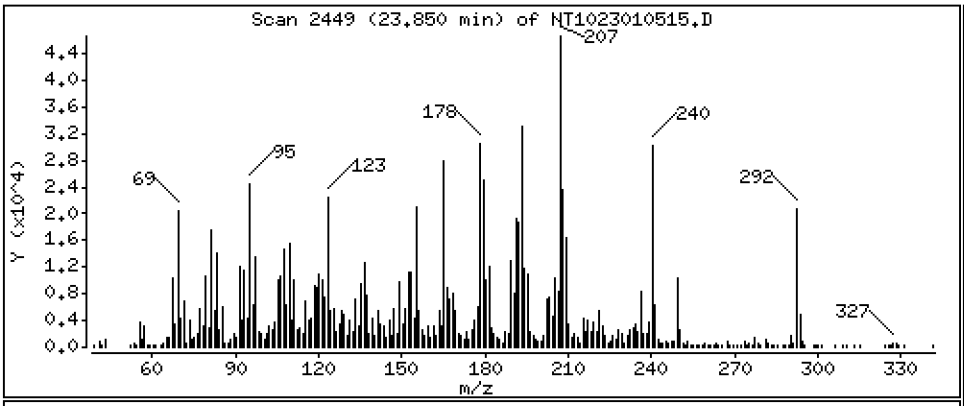
Operator: VTS

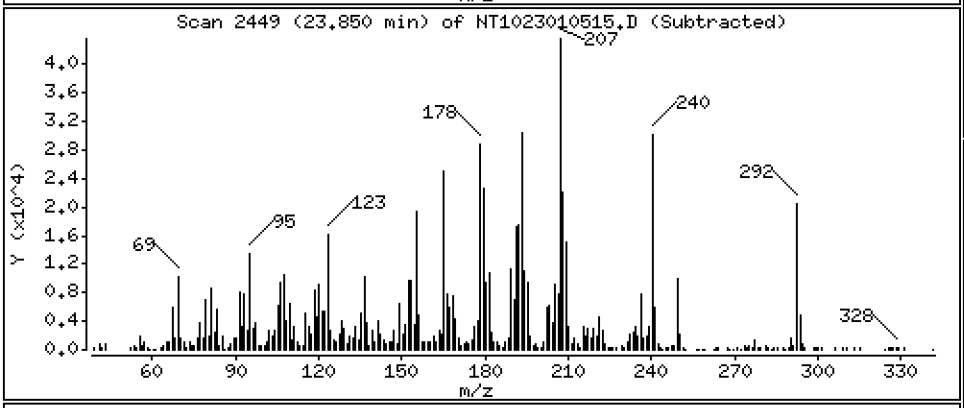
Column phase: ZB-5msi

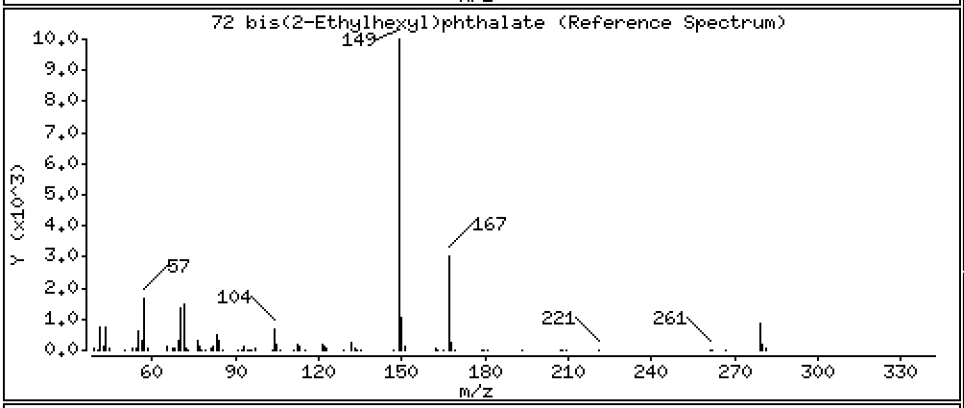
Column diameter: 0.25

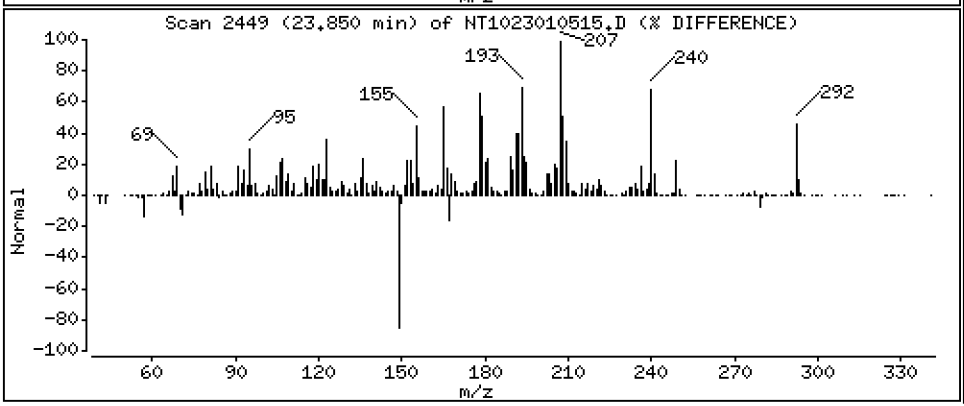
72 bis(2-Ethylhexyl)phthalate

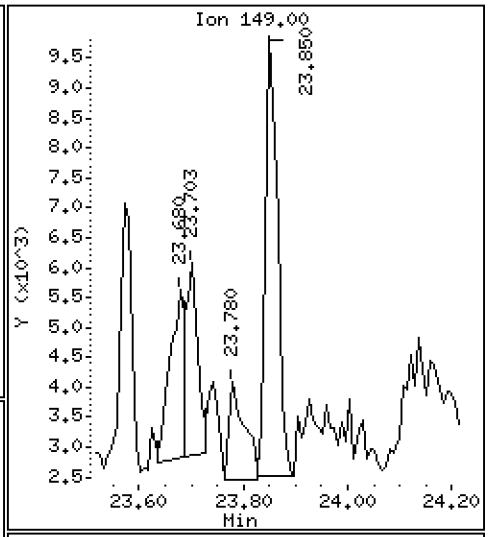
Concentration: 0.2661 ug/mL

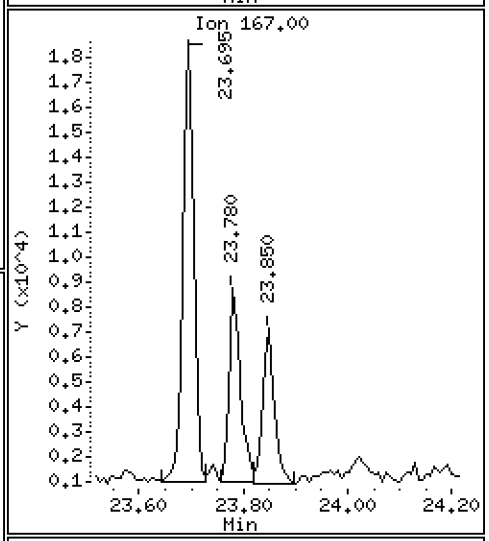


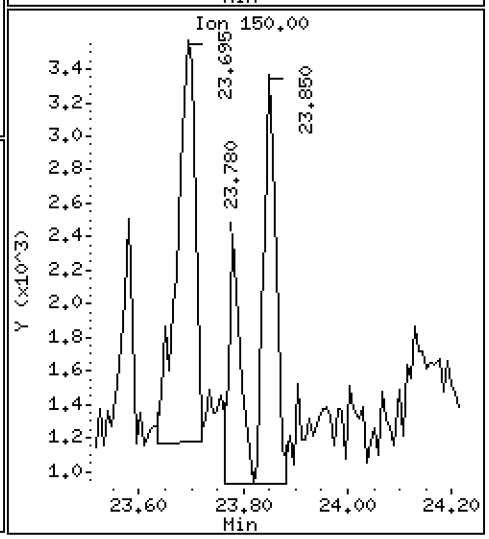












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

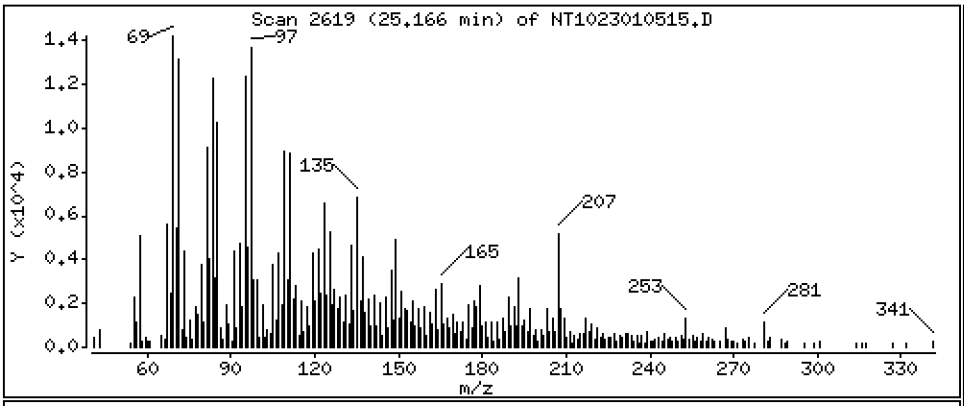
Operator: VTS

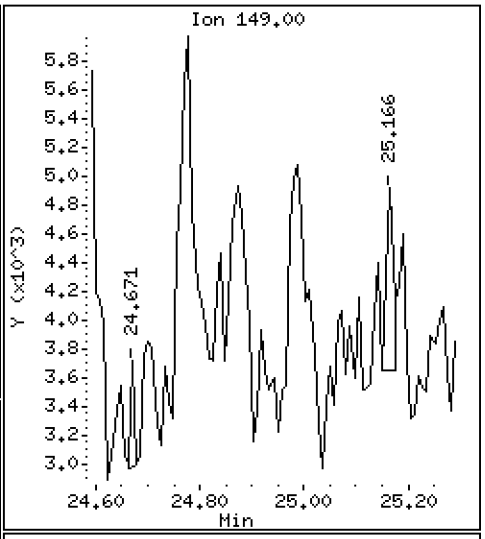
Column phase: ZB-5msi

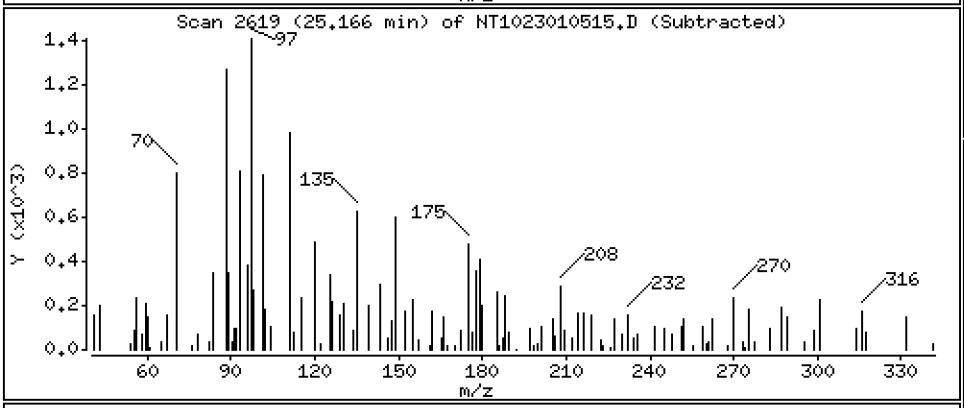
Column diameter: 0.25

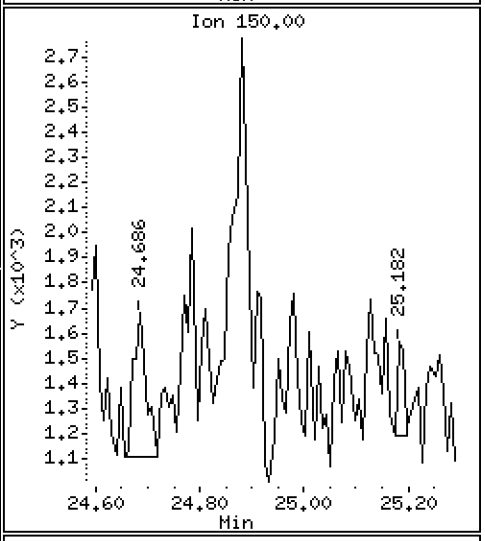
73 Di-n-octylphthalate

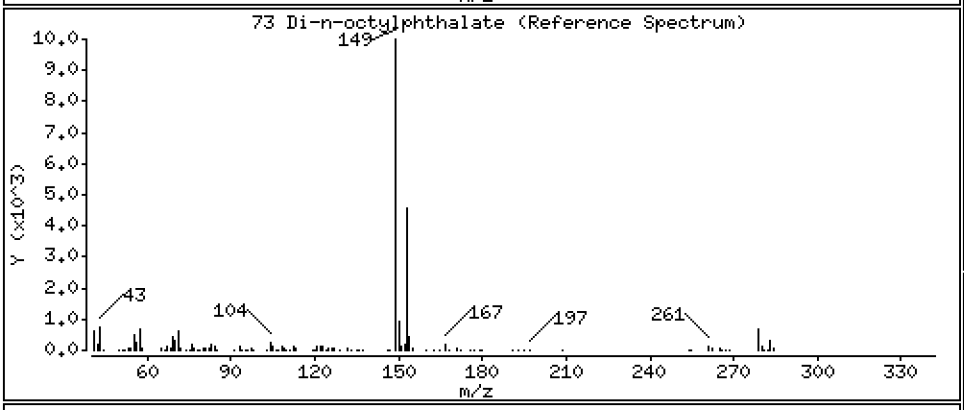
Concentration: 0.01732 ug/mL

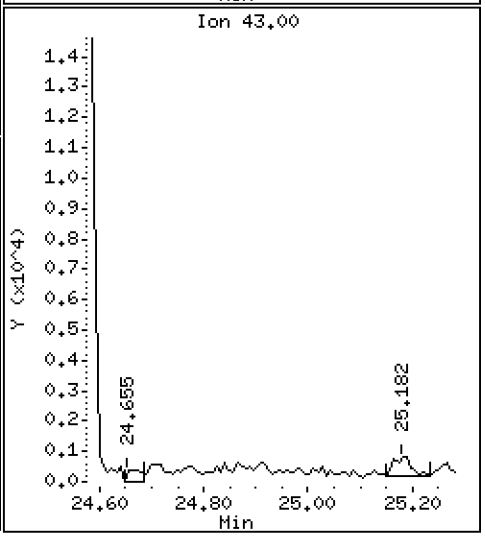


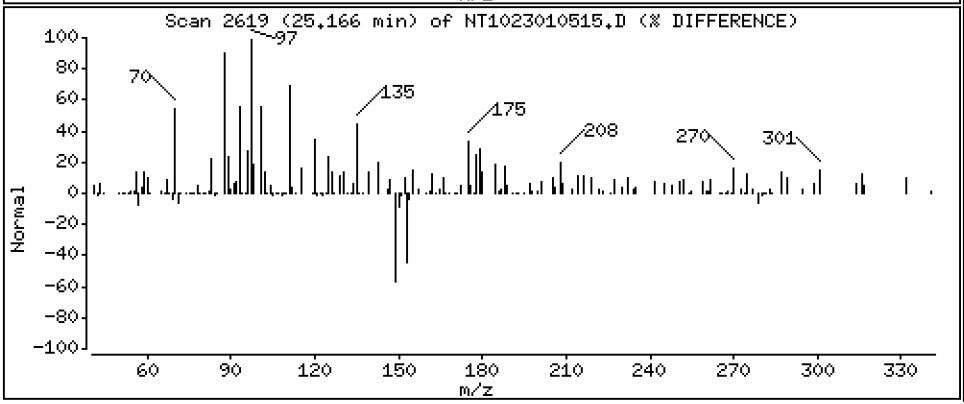












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

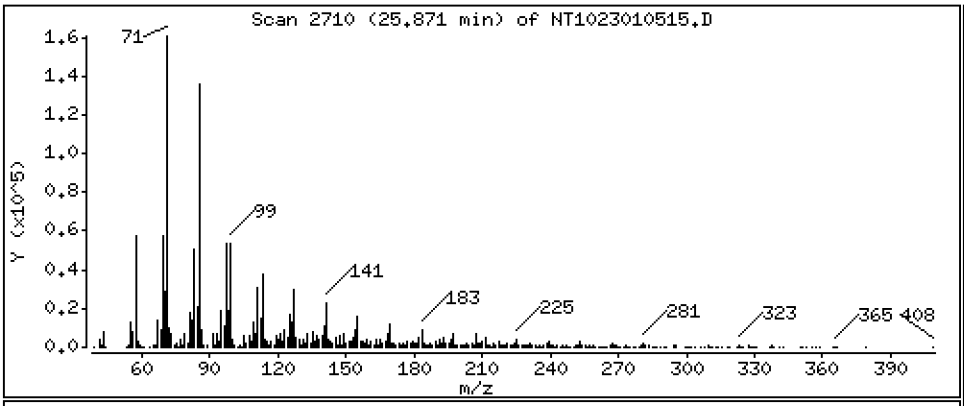
Operator: VTS

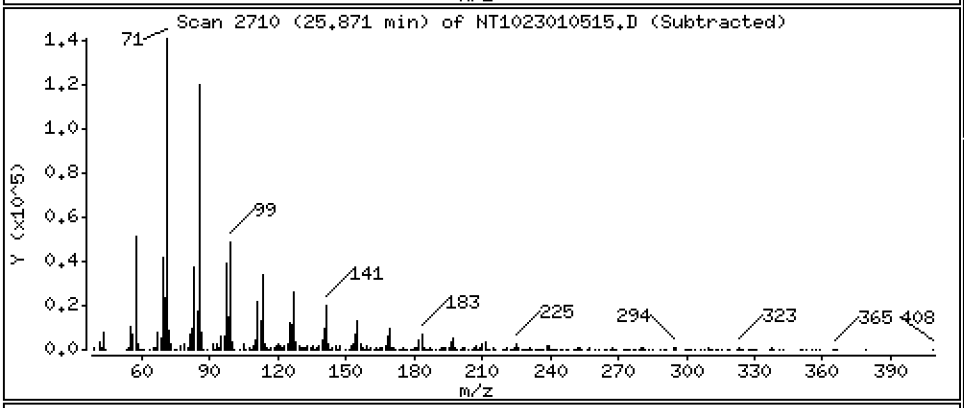
Column phase: ZB-5msi

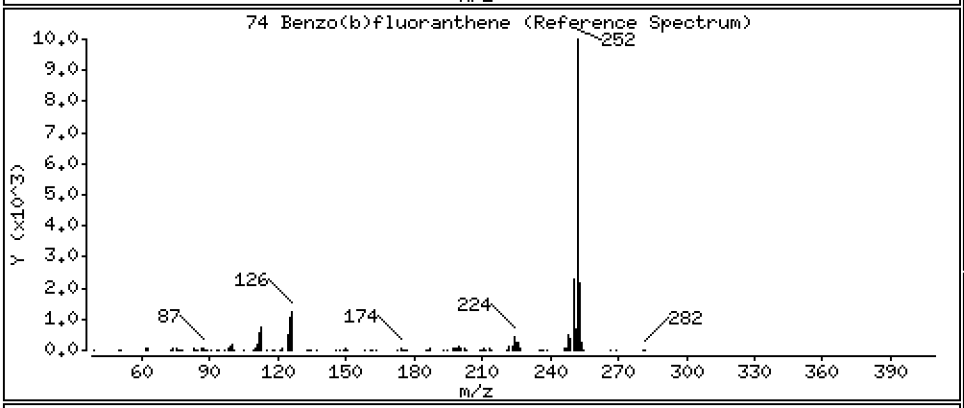
Column diameter: 0.25

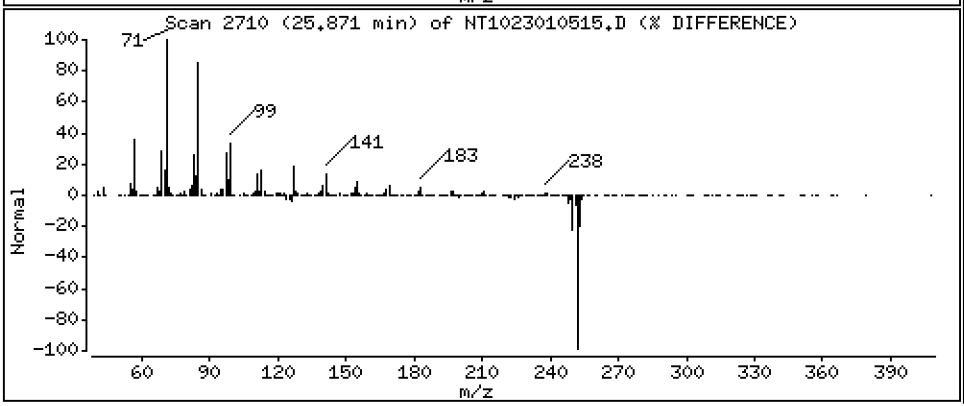
74 Benzo(b)fluoranthene

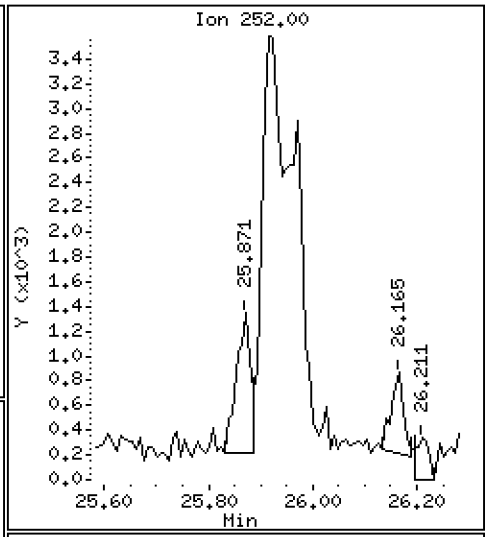
Concentration: 0.07083 ug/mL

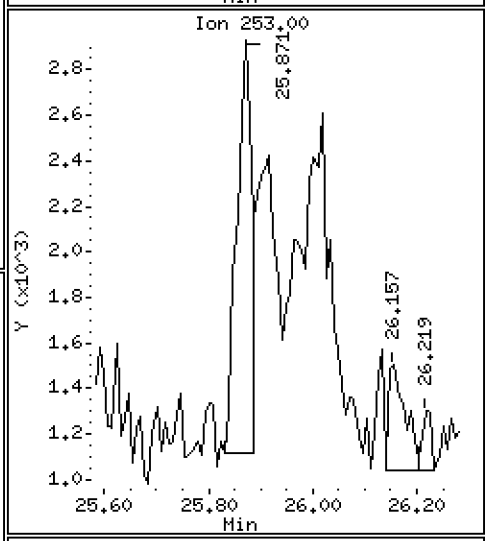


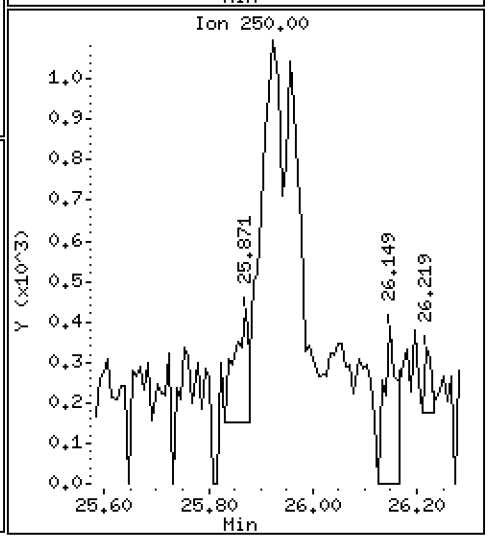












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

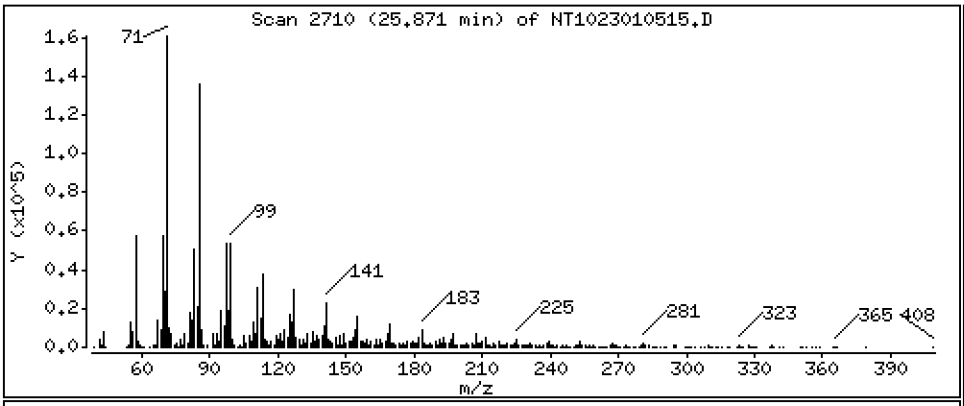
Operator: VTS

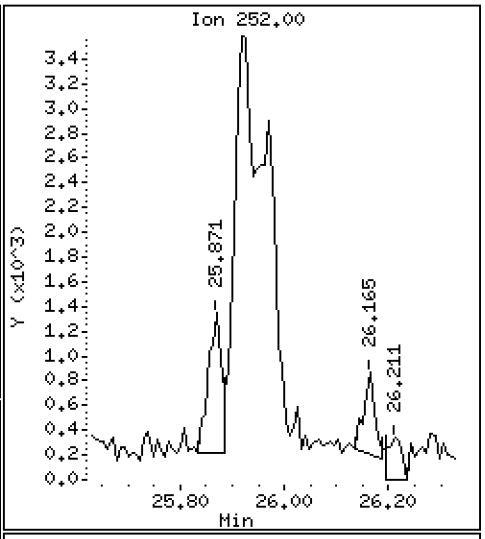
Column phase: ZB-5msi

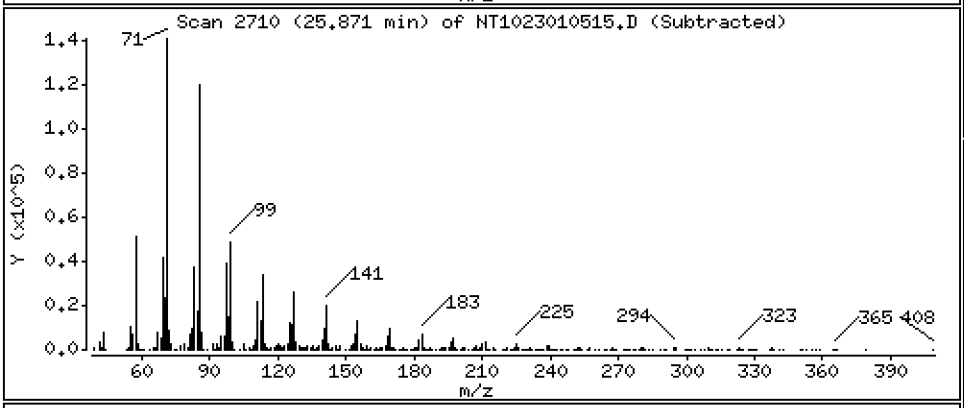
Column diameter: 0.25

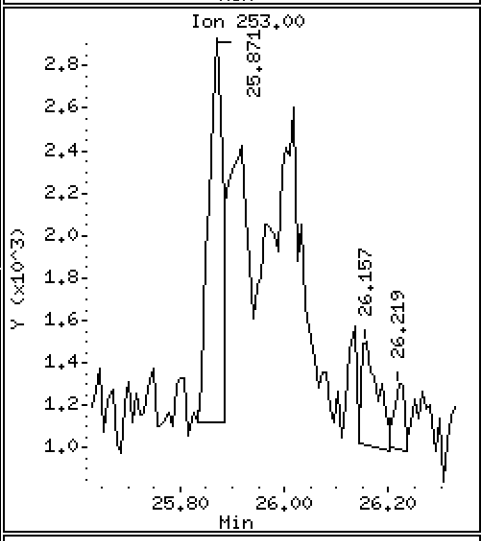
75 Benzo(k)fluoranthene

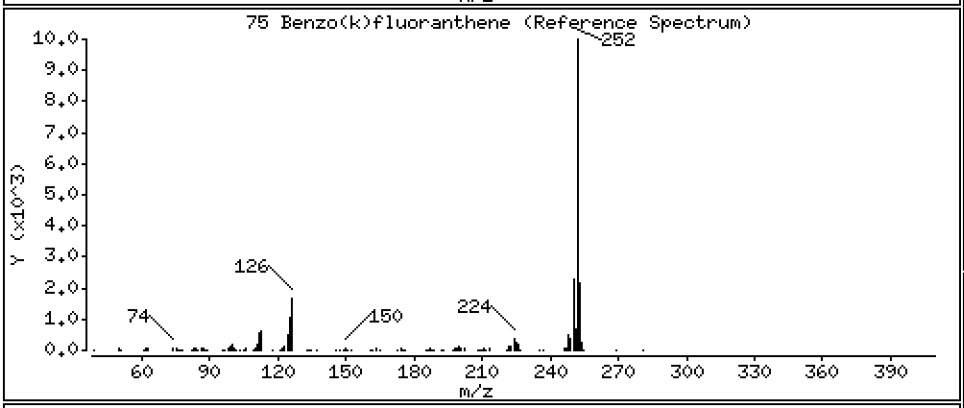
Concentration: 0.07270 ug/mL

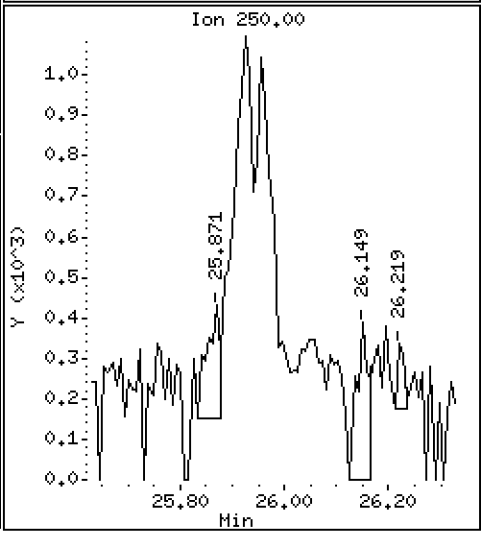


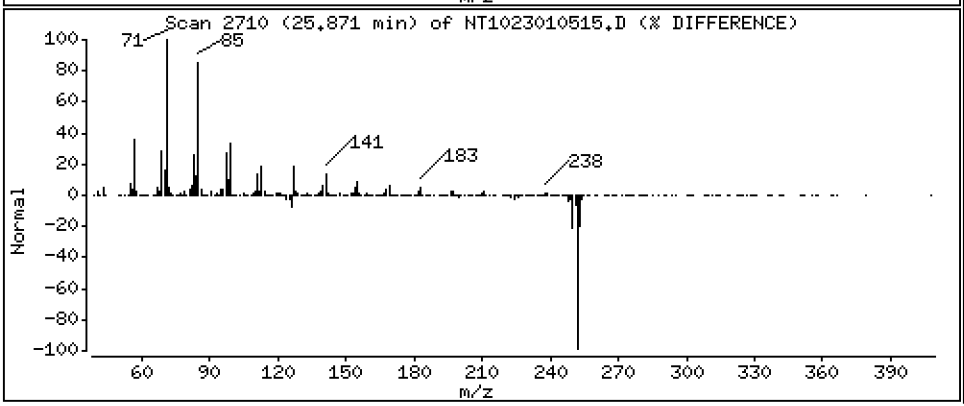












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

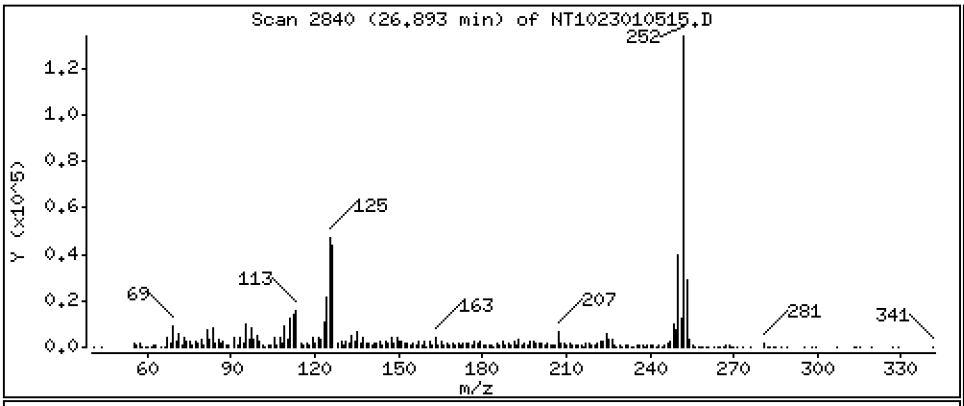
Operator: VTS

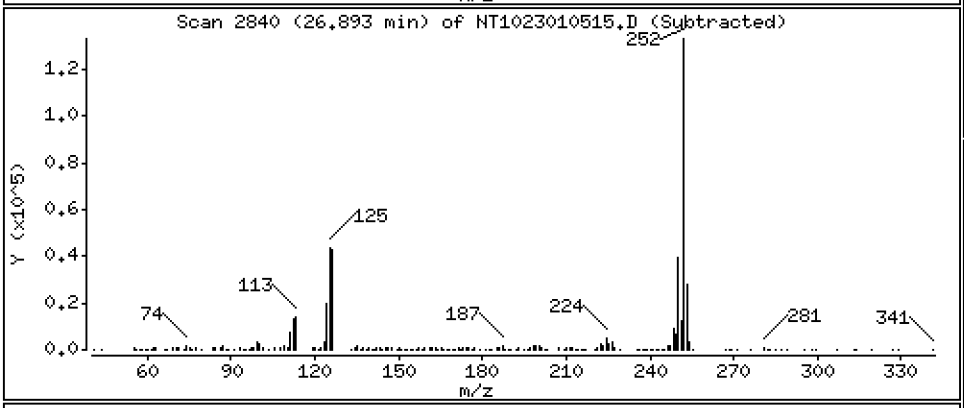
Column phase: ZB-5msi

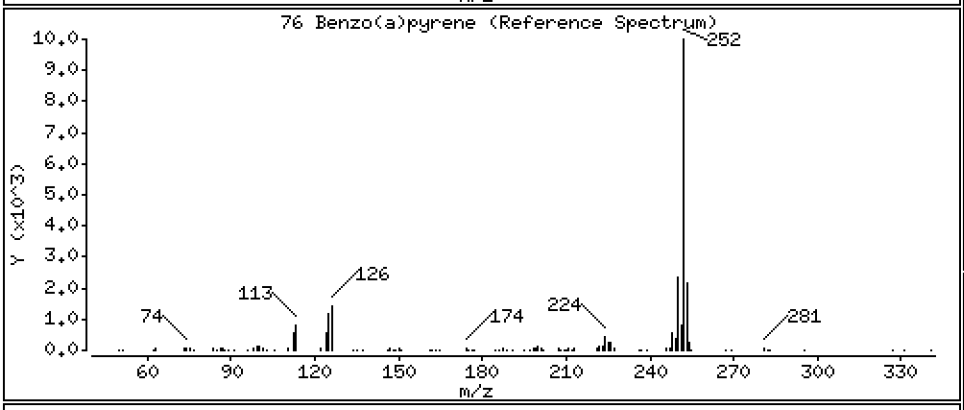
Column diameter: 0.25

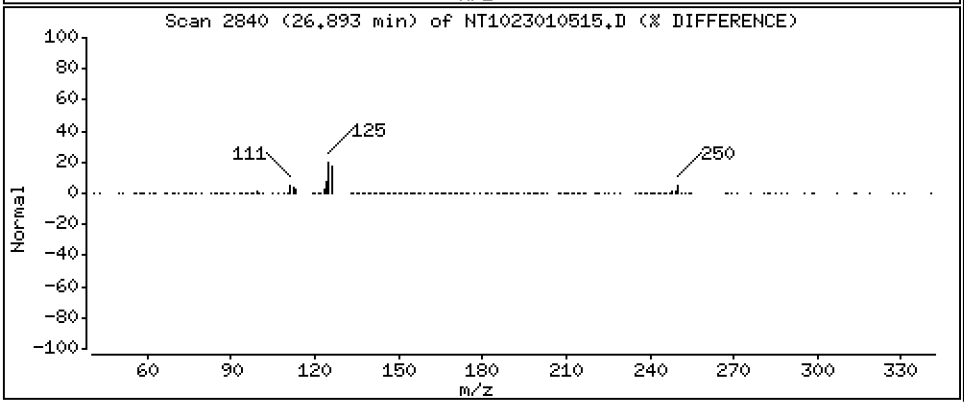
76 Benzo(a)pyrene

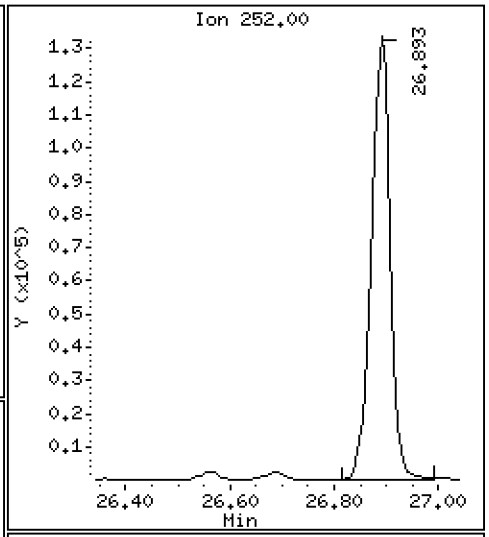
Concentration: 11.70 ug/mL

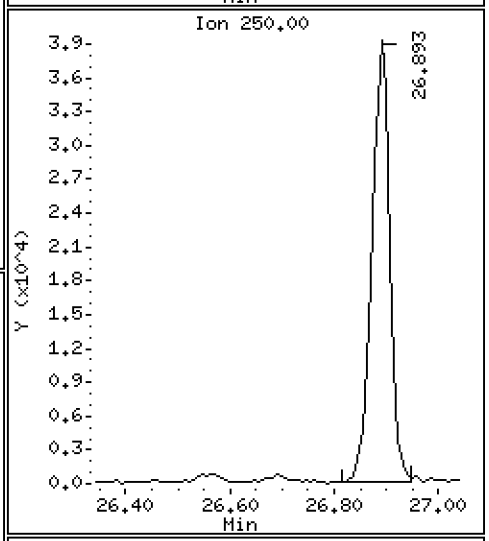


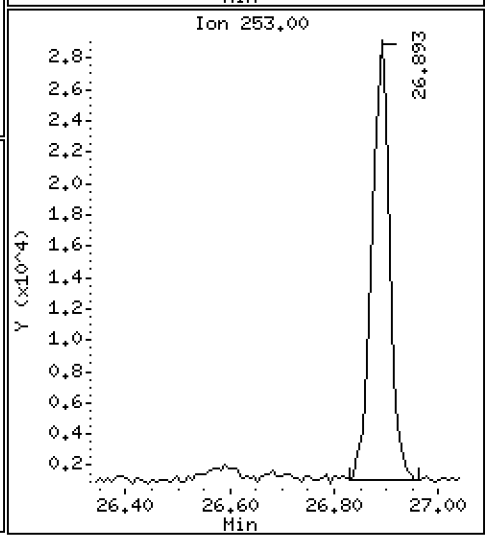












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

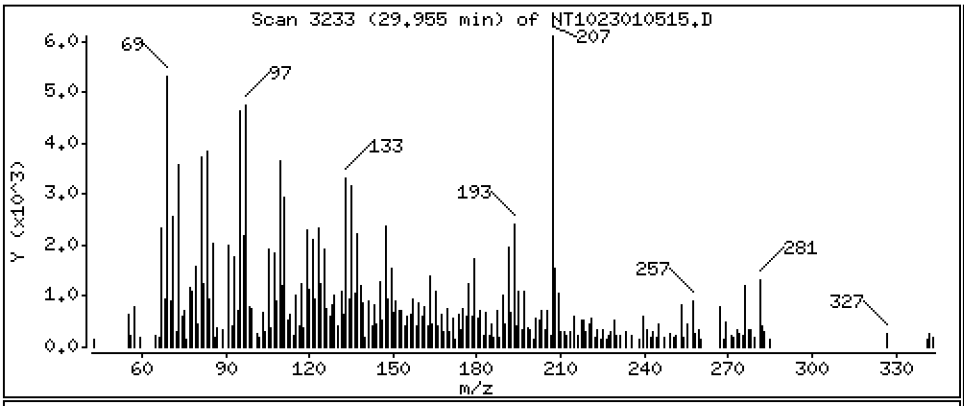
Operator: VTS

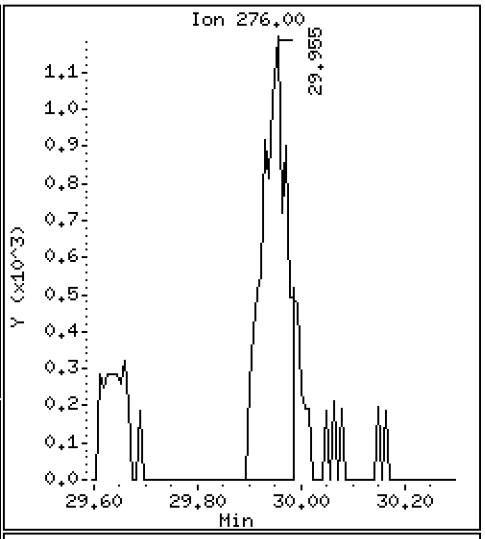
Column phase: ZB-5msi

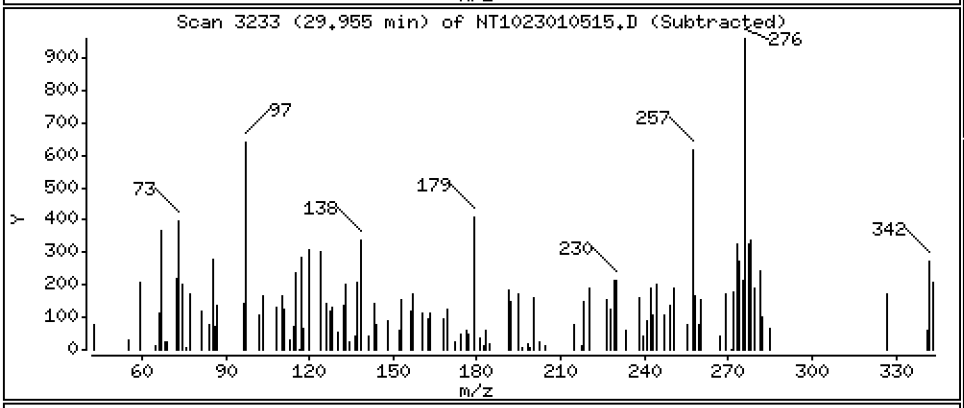
Column diameter: 0.25

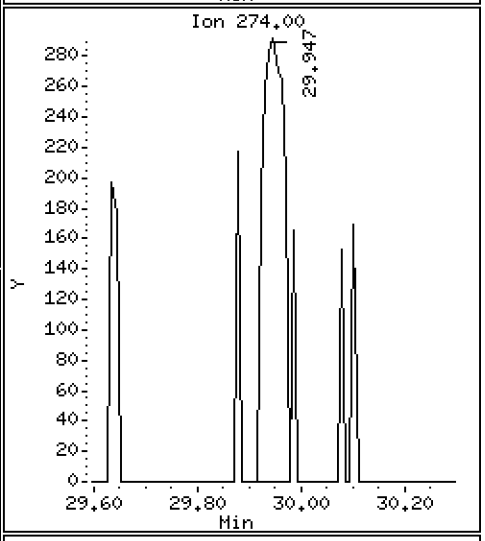
78 Indeno(1,2,3-cd)pyrene

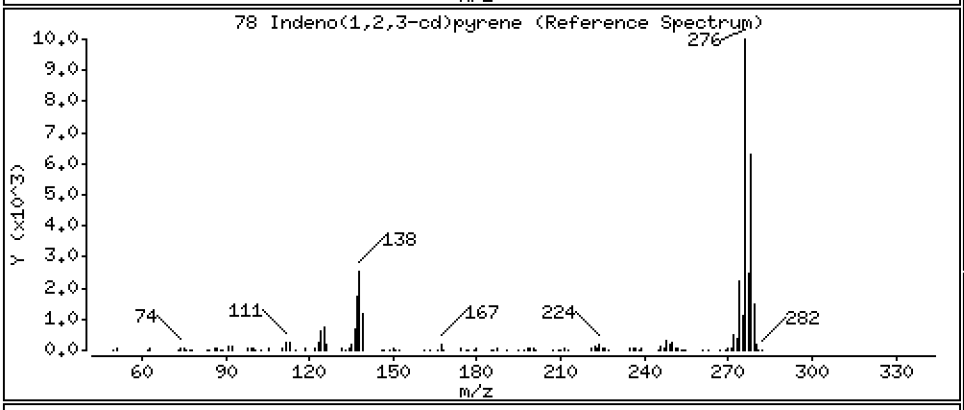
Concentration: 0.1664 ug/mL

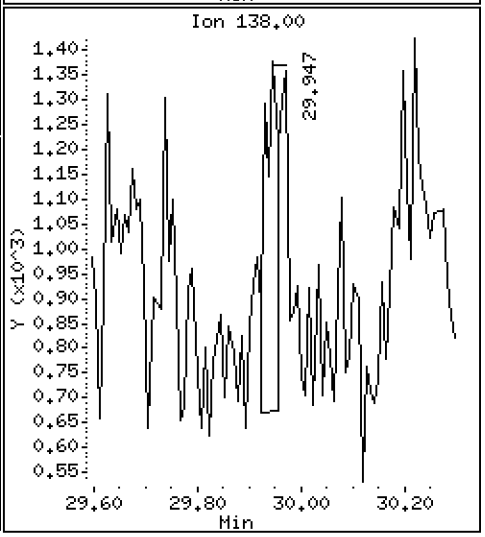


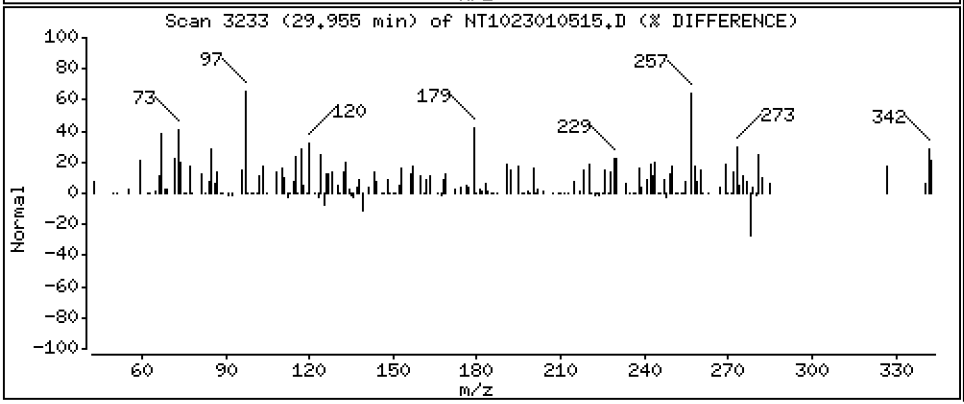












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

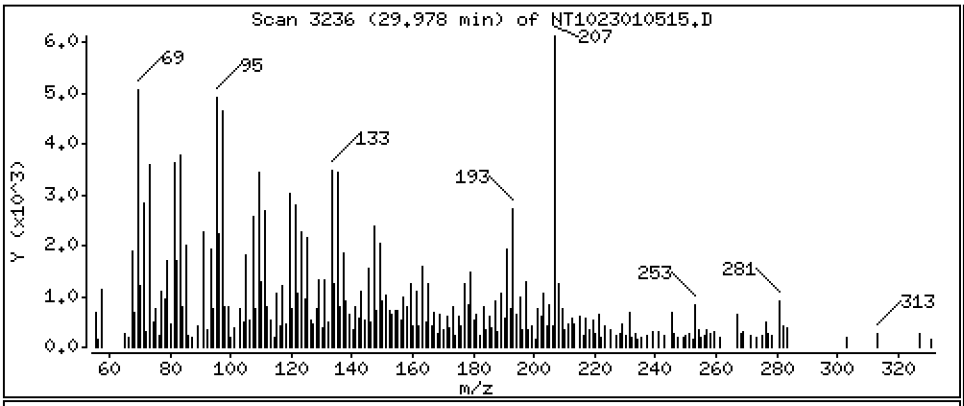
Operator: VTS

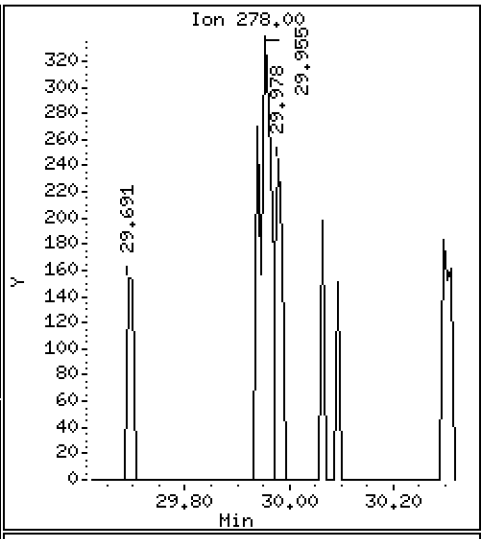
Column phase: ZB-5msi

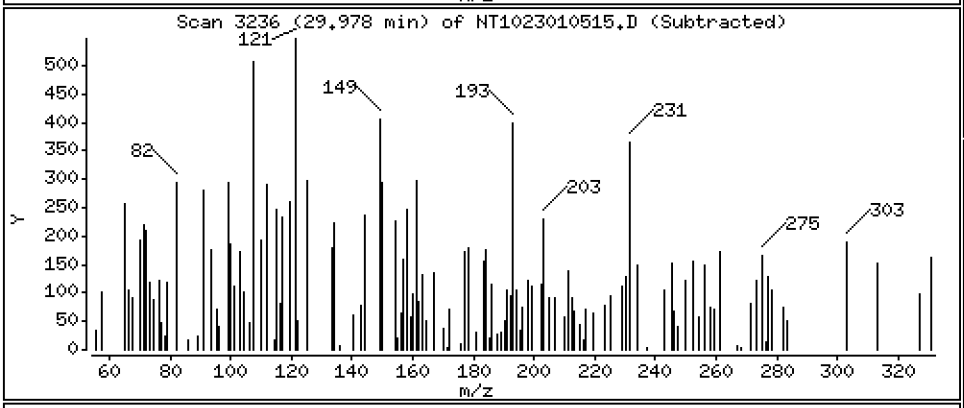
Column diameter: 0.25

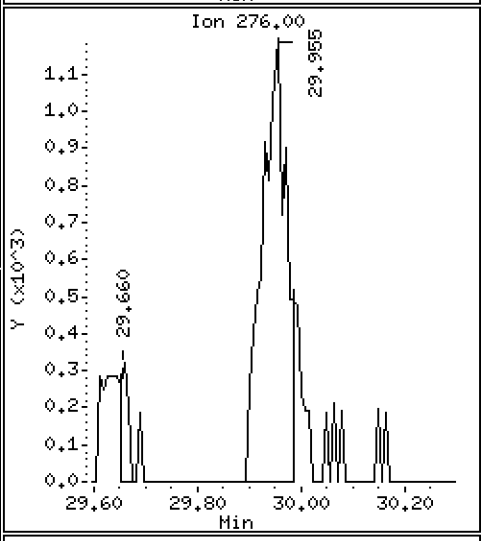
79 Dibenzo(a,h)anthracene

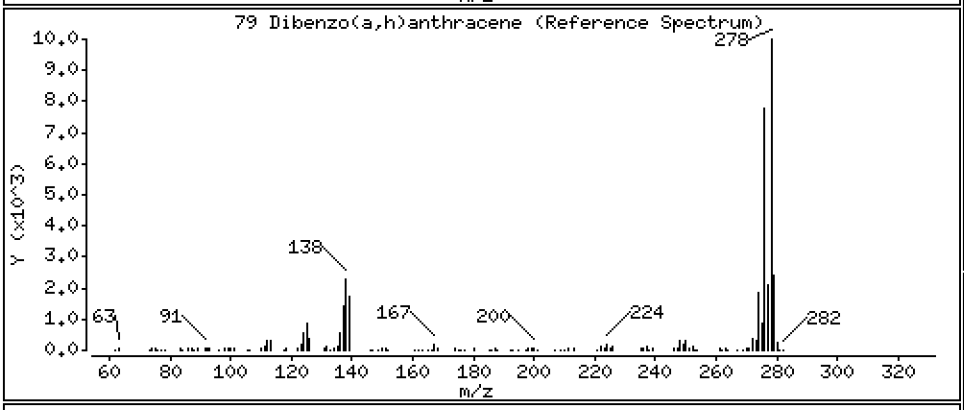
Concentration: 0.01498 ug/mL

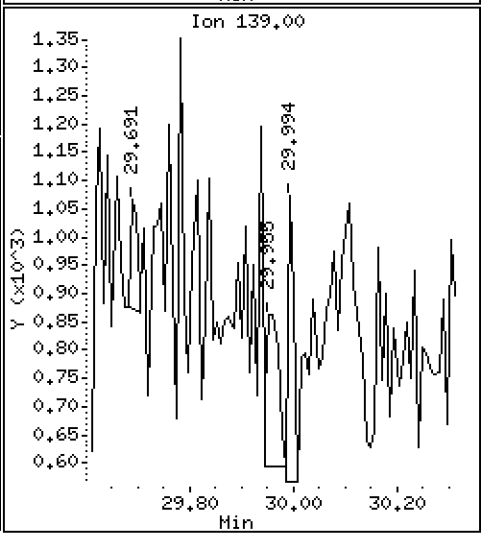


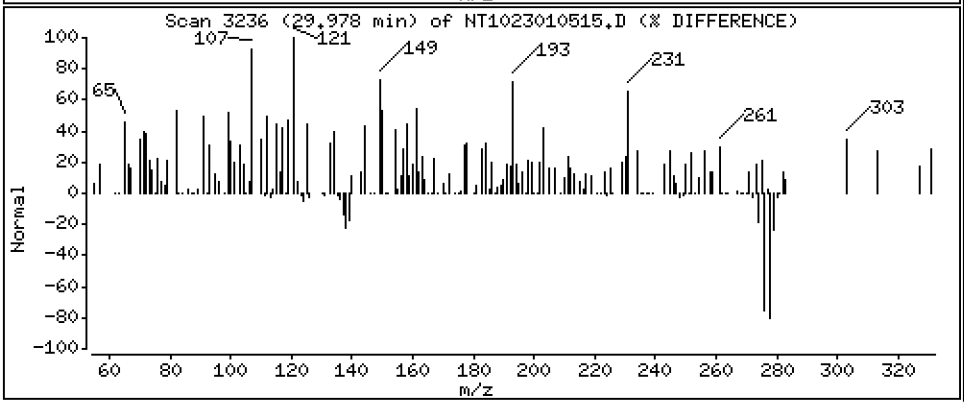












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

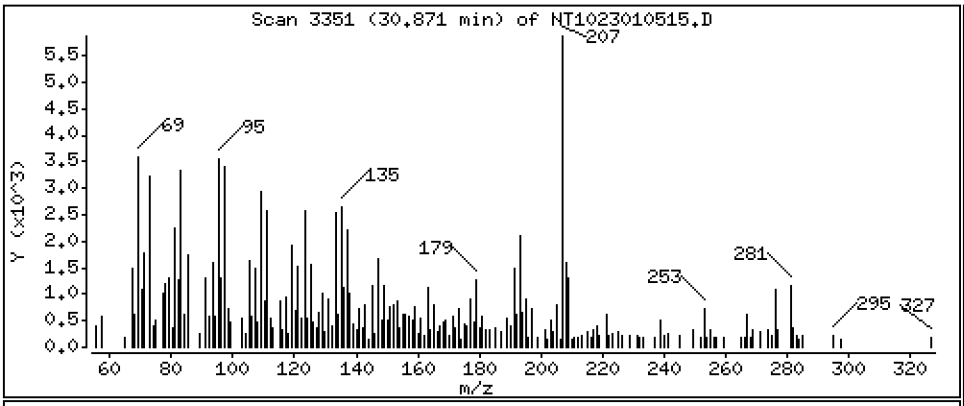
Operator: VTS

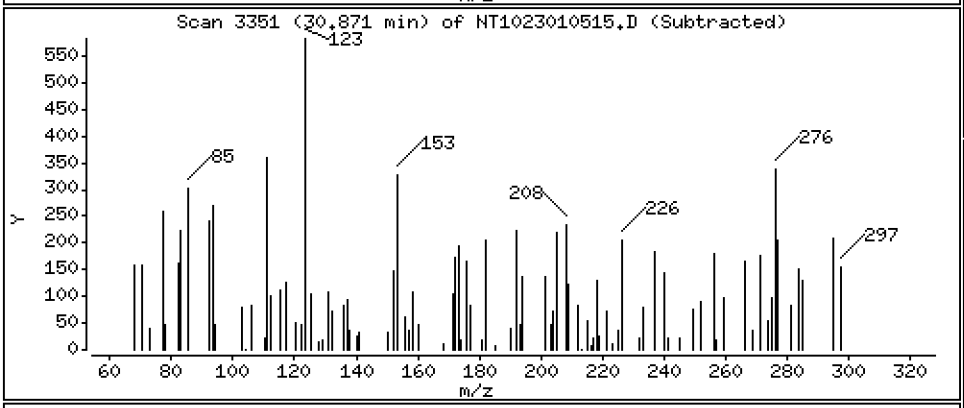
Column phase: ZB-5msi

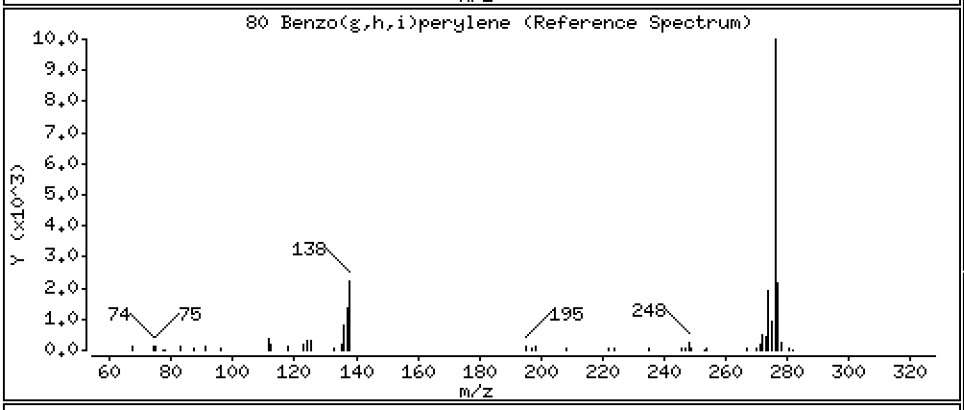
Column diameter: 0.25

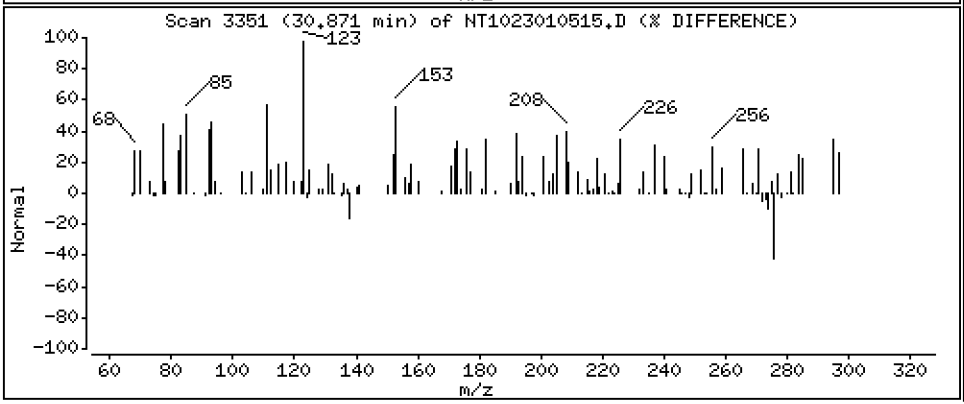
80 Benzo(g,h,i)perylene

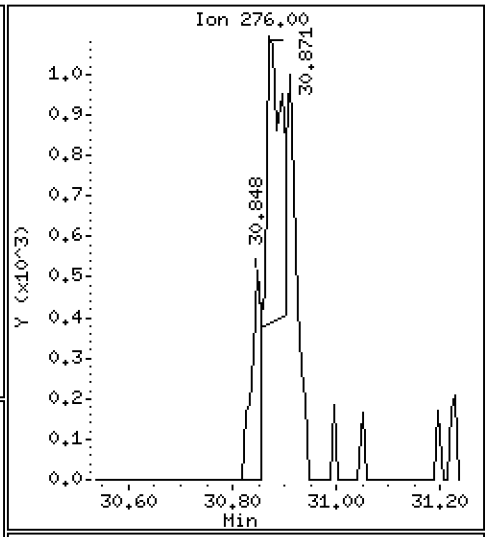
Concentration: 0.07161 ug/mL

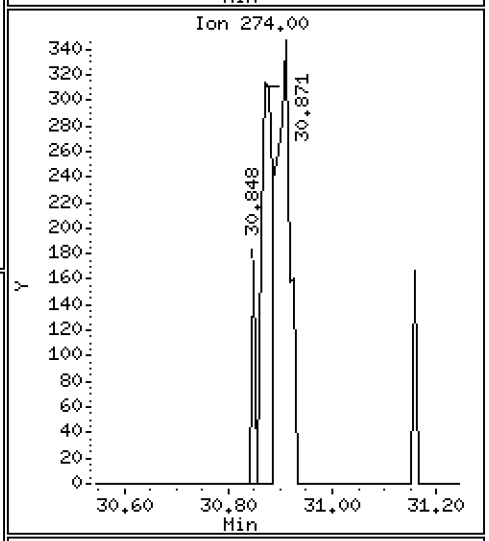


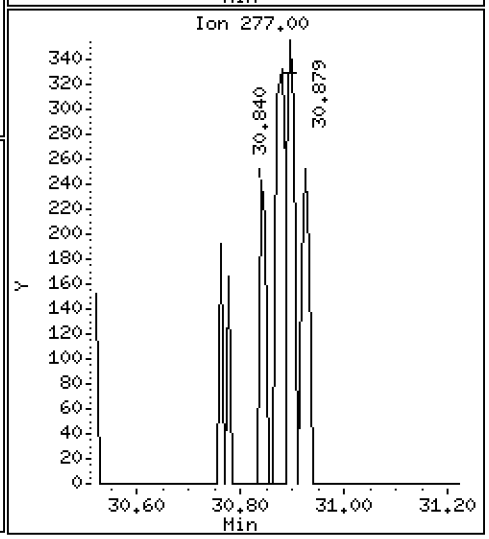












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

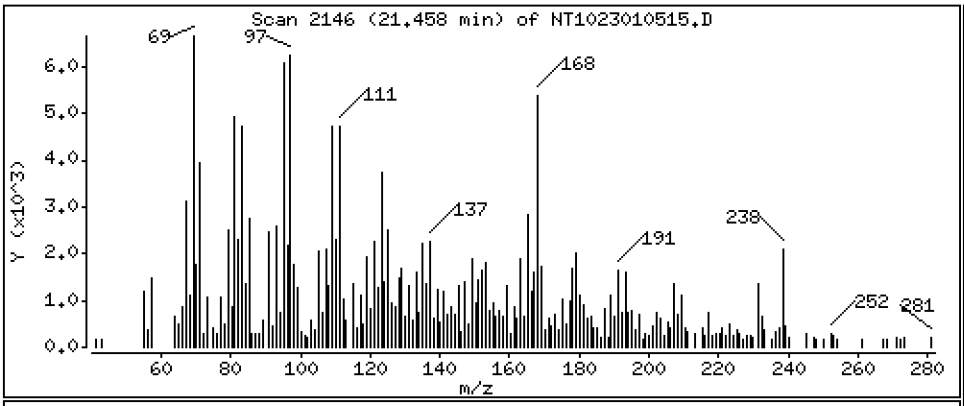
Operator: VTS

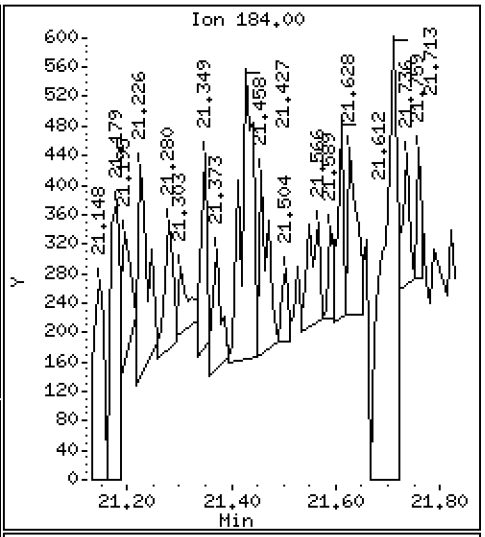
Column phase: ZB-5msi

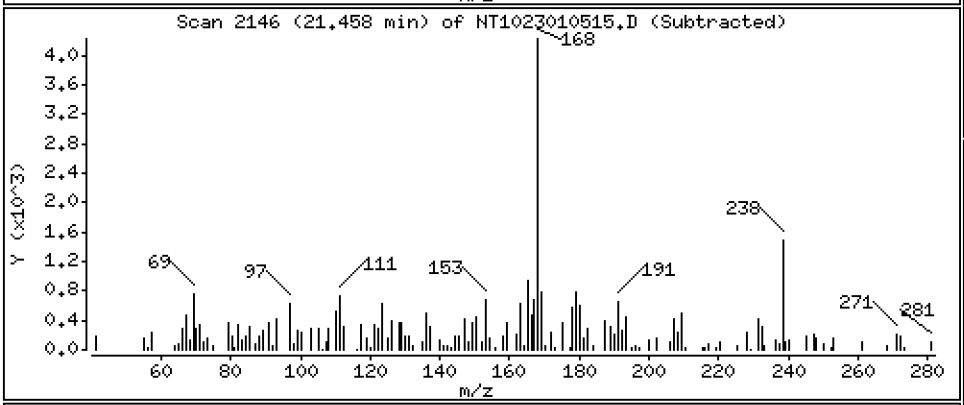
Column diameter: 0.25

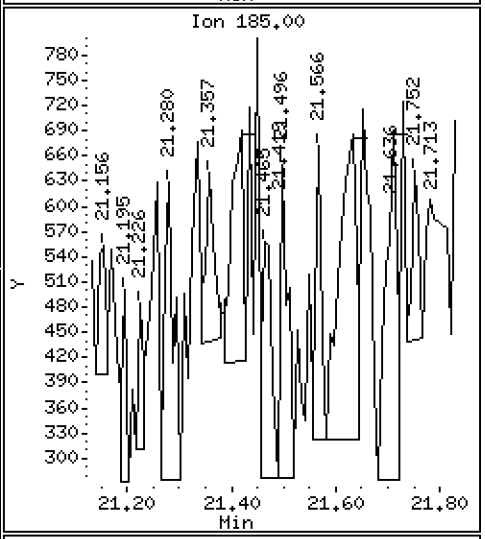
93 Benzidine

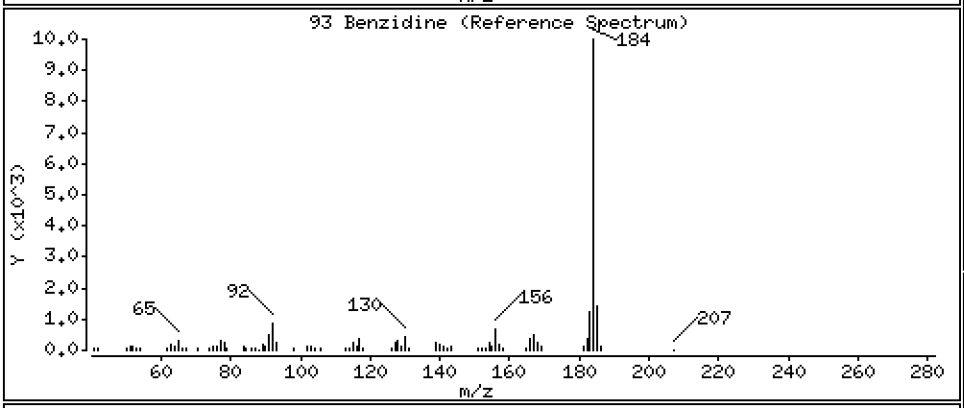
Concentration: 0.01708 ug/mL

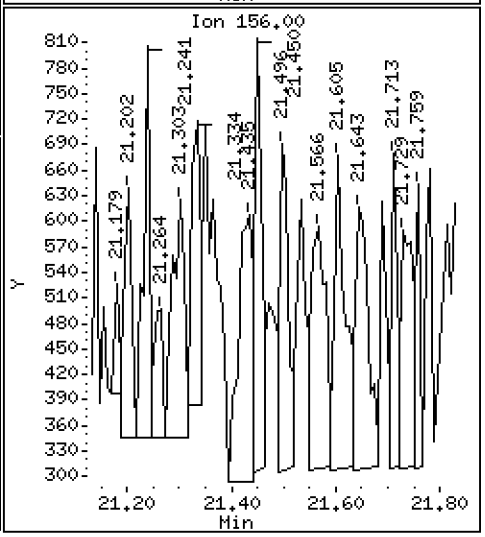


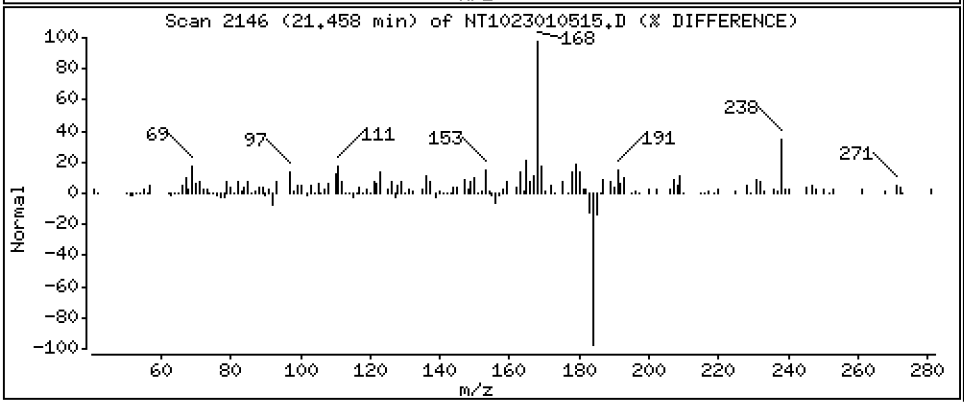












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

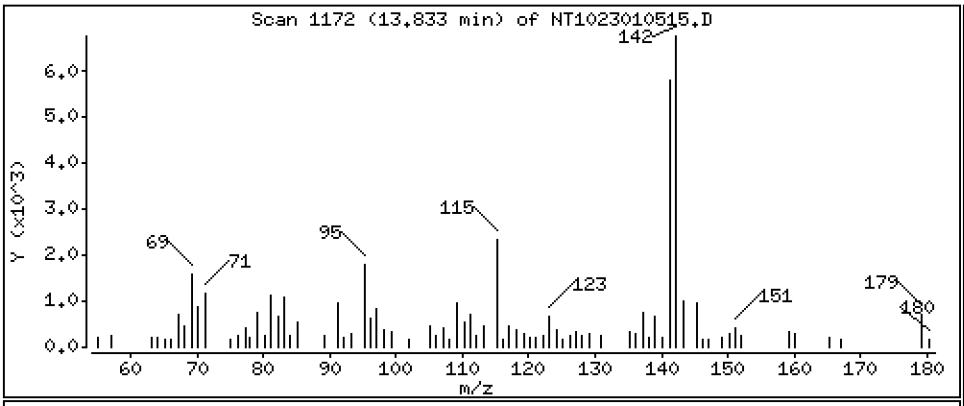
Operator: VTS

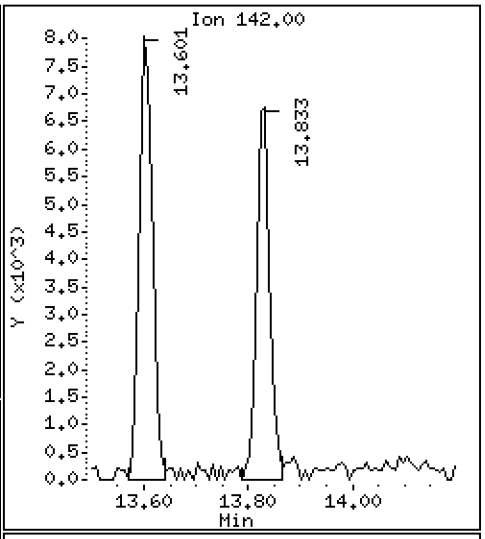
Column phase: ZB-5msi

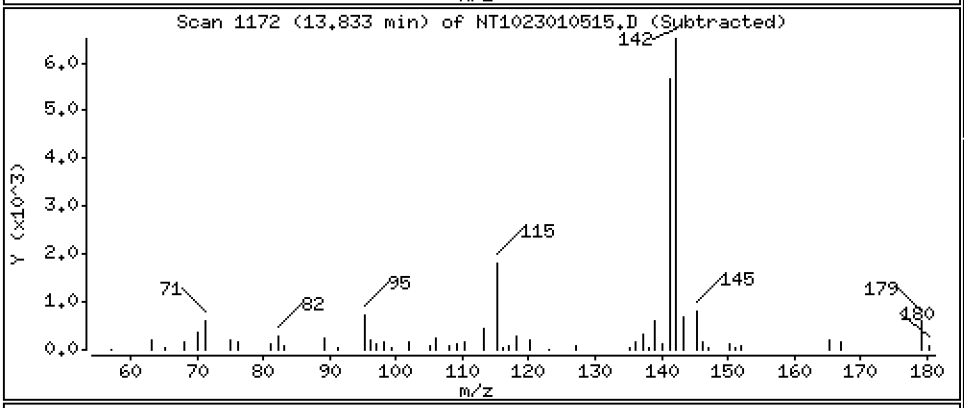
Column diameter: 0.25

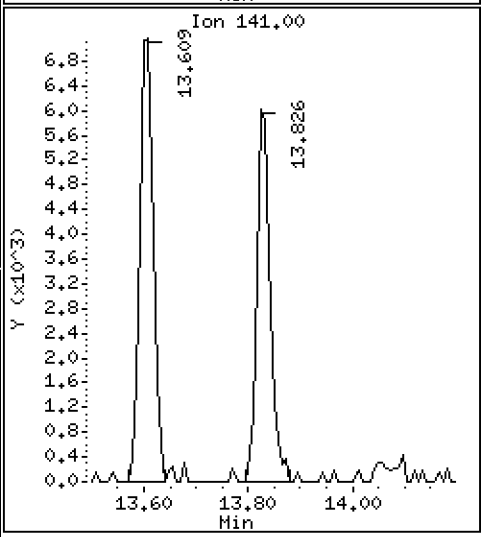
105 1-methylnaphthalene

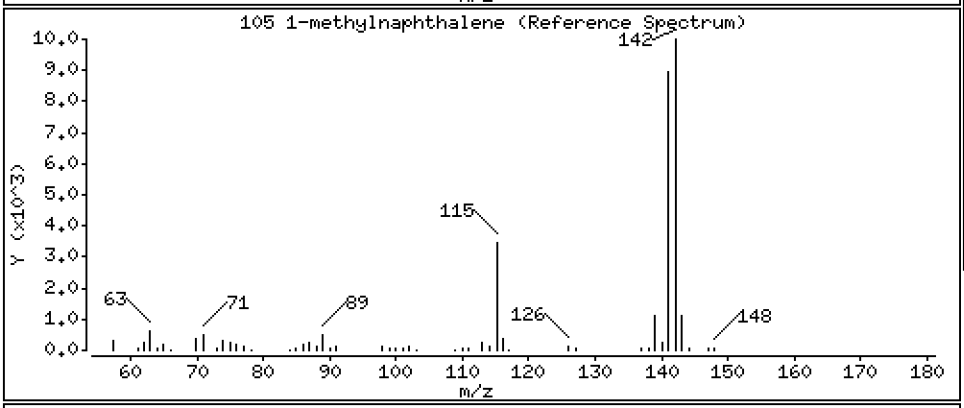
Concentration: 0.2237 ug/mL

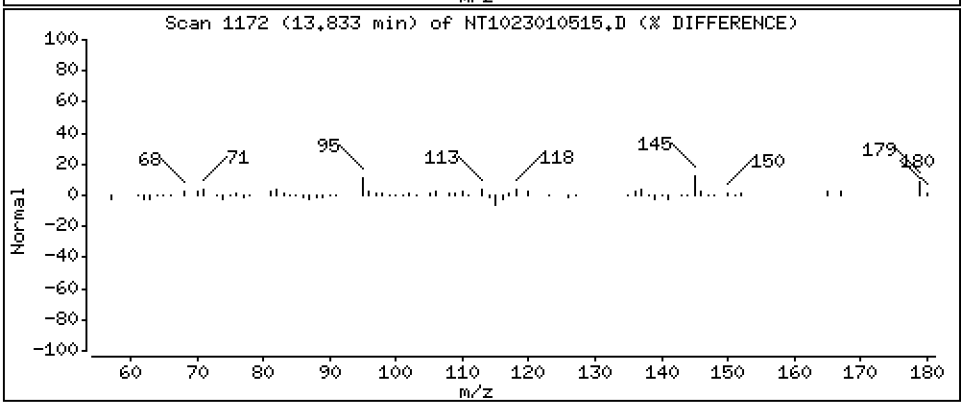












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

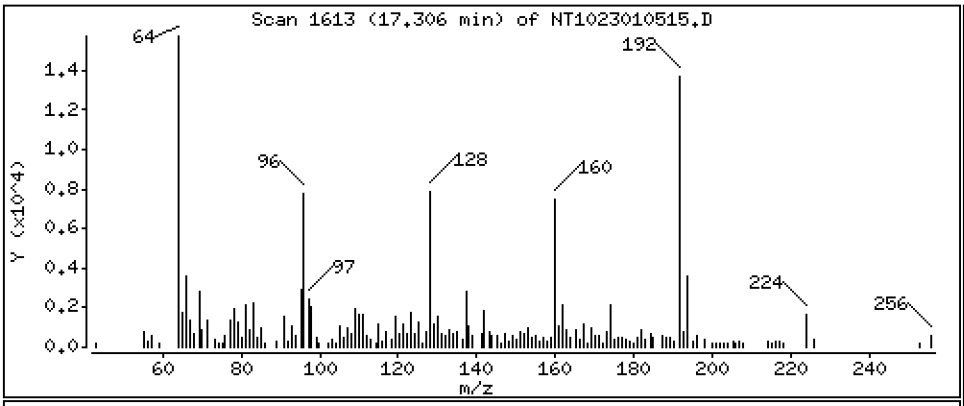
Operator: VTS

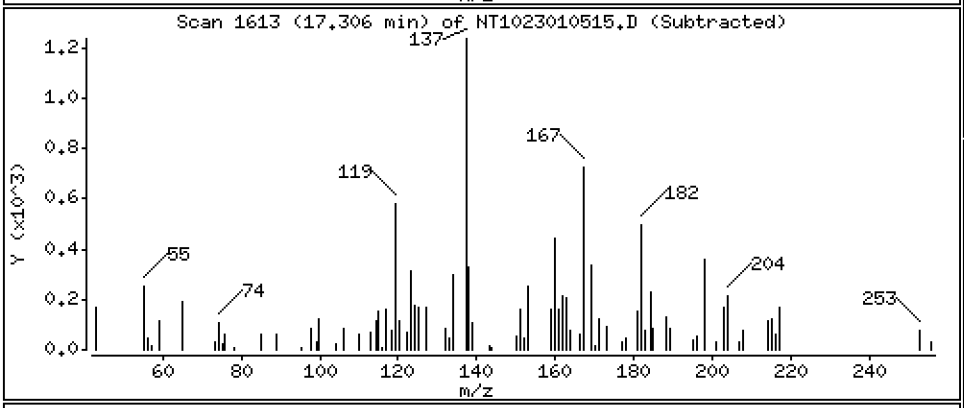
Column phase: ZB-5msi

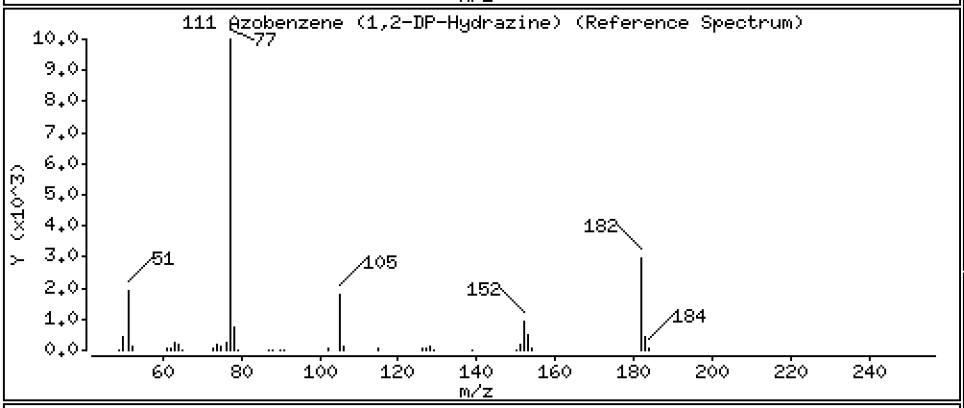
Column diameter: 0.25

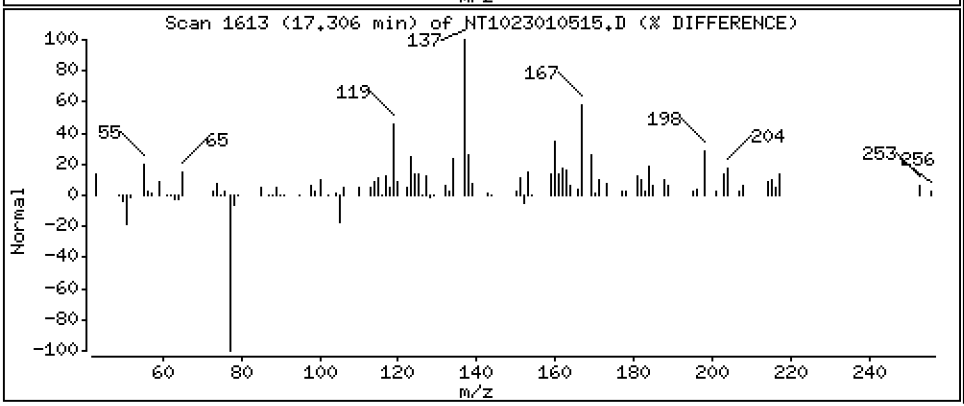
111 Azobenzene (1,2-DP-Hydrazine)

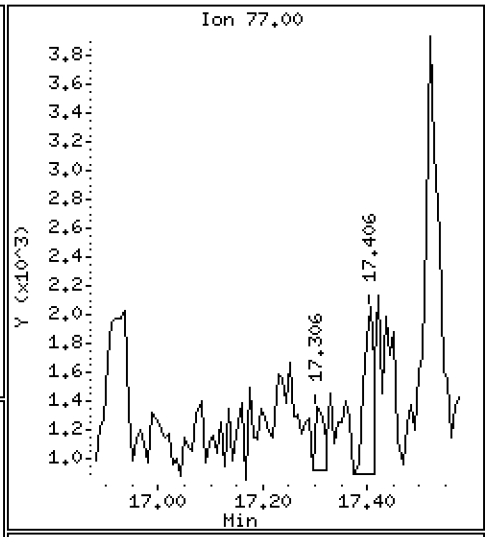
Concentration: 0.009751 ug/mL

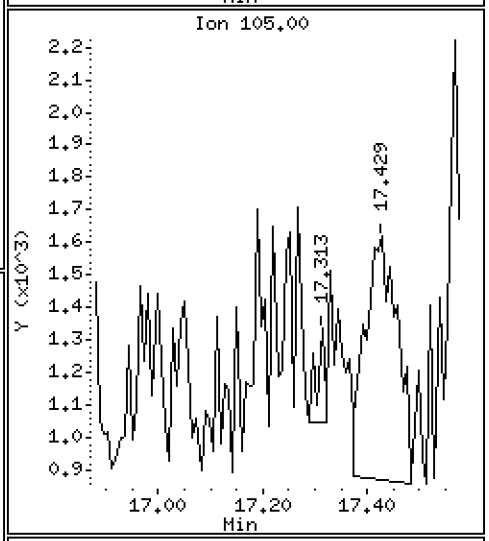


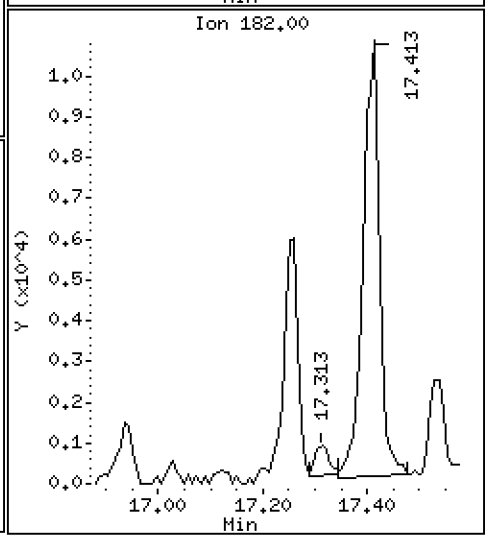












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Date : 05-JAN-2023 22:22

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-13

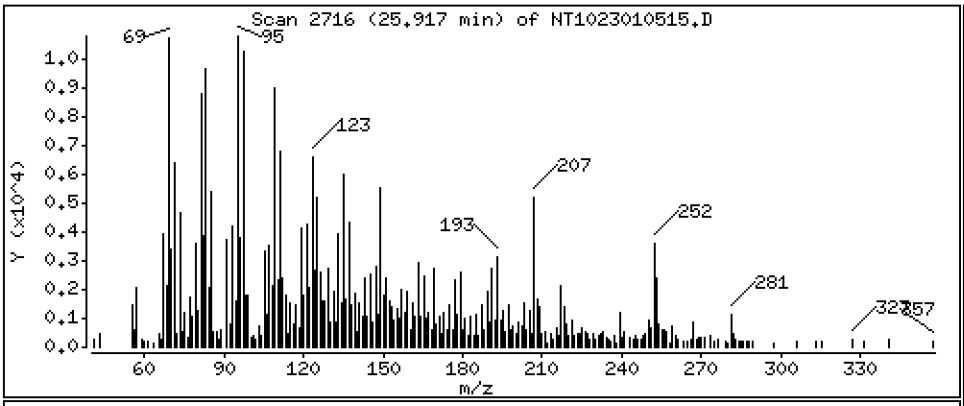
Operator: VTS

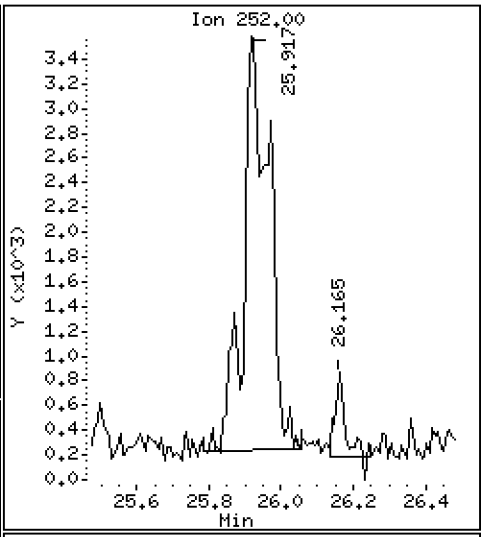
Column phase: ZB-5msi

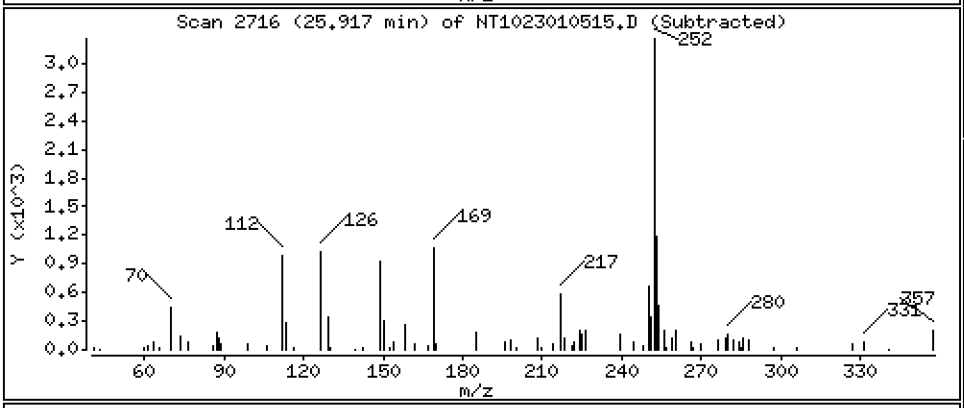
Column diameter: 0.25

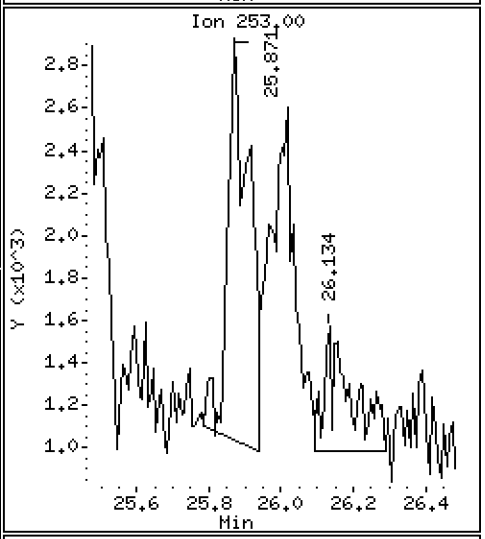
187 Total Benzofluoranthenes

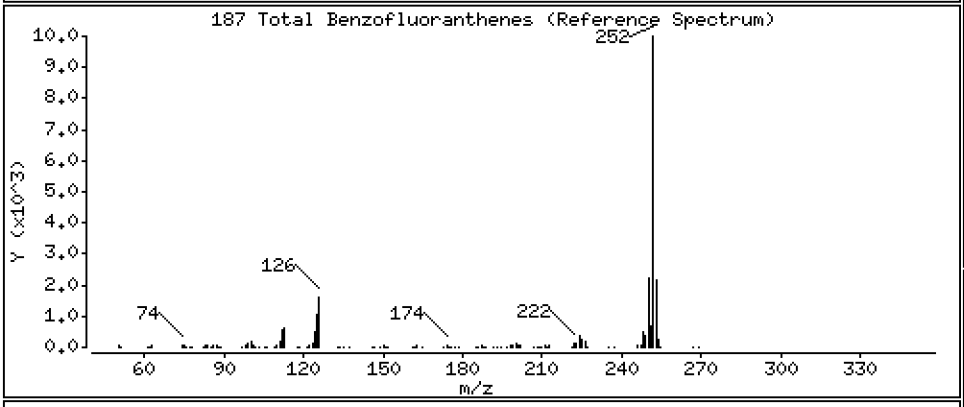
Concentration: 0.5620 ug/mL

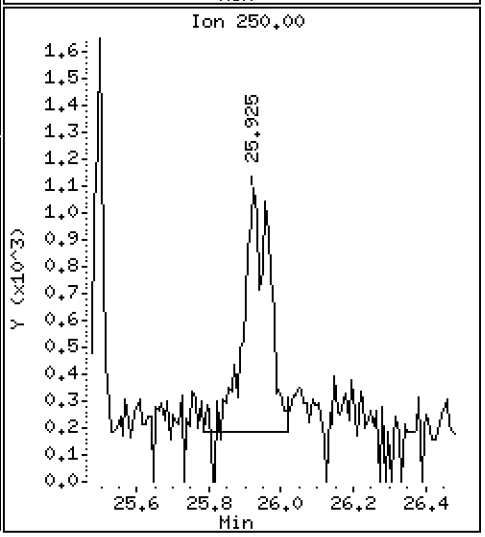


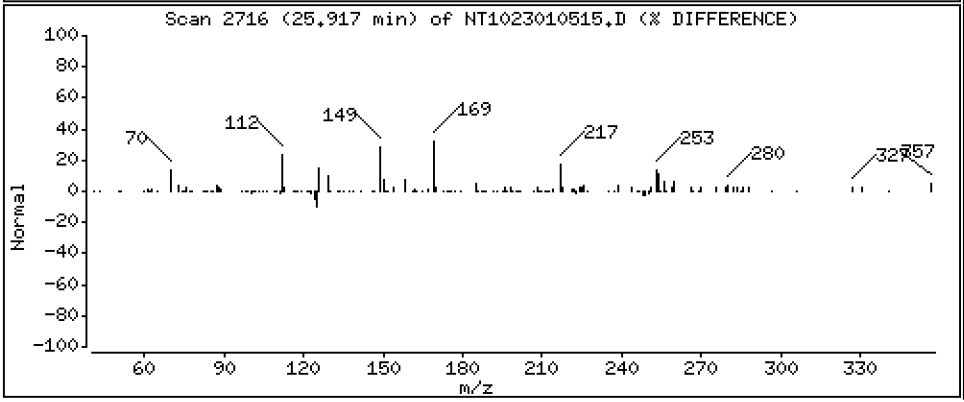












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010515.D
Lab Smp Id: 22L0246-13
Inj Date : 05-JAN-2023 22:22
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-13
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	145822	5.56401	5.564
$	2 Phenol-d5	99	9.012	9.012	(0.932)	177661	5.65117	5.651
	3 Phenol	94	9.036	9.036	(0.934)	4421	0.15052	0.1505
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	178214	6.46217	6.462
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	80145	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	68425	3.98312	3.983
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.941	9.941	(1.028)	3289	0.24011	0.2401
	14 2,2'-oxybis(1-Chloropropane)	121	9.918	10.244	(1.026)	599	0.07597	0.07597
	13 2-Methylphenol	108	9.941	10.158	(1.028)	3289	0.16631	0.1663
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	10.415	10.422	(1.077)	12112	0.88721	0.8872
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	90418	4.32351	4.324
	19 Nitrobenzene	77	10.772	10.810	(0.885)	319	0.01744	0.01744
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.425	11.442	(0.939)	490	0.02923	0.02923
	22 2,4-Dimethylphenol	107	11.467	11.476	(0.942)	695	0.02865	0.02865
	23 Bis(2-Chloroethoxy)methane	93	11.637	11.671	(0.956)	530	0.02524	0.02524
	24 Benzoic acid	105	11.697	11.671	(0.961)	1353	0.13559	0.1356
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.170	12.185	(1.000)	314017	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	18520	0.26821	0.2682
	29 4-Chloroaniline	127	12.301	12.339	(1.011)	167	0.00627	0.006267
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	13.268	13.291	(1.090)	220	0.01128	0.01128
	32 2-Methylnaphthalene	142	13.601	13.624	(1.118)	13807	0.25282	0.2528
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
Compounds								
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	211889	4.71968	4.720
37	2-Chloronaphthalene	162	14.715	14.622	(0.932)	335	0.00835	0.008352
38	2-Nitroaniline	65	14.800	14.862	(0.937)	490	0.09145	0.09145
39	Dimethylphthalate	163	15.241	15.280	(0.965)	2597	0.07106	0.07106
40	Acenaphthylene	152	15.481	15.497	(0.980)	5116	0.08878	0.08878
41	2,6-Dinitrotoluene	165	15.412	15.427	(0.976)	640	0.07710	0.07710
* 42	Acenaphthene-d10	164	15.791	15.814	(1.000)	121183	4.00000	
43	3-Nitroaniline	138	15.714	15.721	(0.995)	347	0.06067	0.06067
44	Acenaphthene	153	15.860	15.876	(1.004)	5949	0.18604	0.1860
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	16.185	16.208	(1.025)	10568	0.21749	0.2175
47	4-Nitrophenol	109	16.054	16.038	(1.017)	655	0.15184	0.1518
48	2,4-Dinitrotoluene	165	16.216	16.247	(1.027)	299	0.02684	0.02684
50	Diethylphthalate	149	16.719	16.742	(1.059)	14470	0.37543	0.3754
49	Fluorene	166	16.912	16.919	(1.071)	24550	0.34415	0.3442
51	4-Chlorophenyl-phenylether	204	16.981	16.896	(1.075)	165	0.00720	0.007202
52	4-Nitroaniline	138	16.973	17.004	(1.075)	338	0.02142	0.02142
53	4,6-Dinitro-2-methylphenol	198	17.305	17.097	(0.918)	245	0.03025	0.03025
54	N-Nitrosodiphenylamine	169	17.189	17.143	(0.912)	5116	0.14357	0.1436
$ 55	2,4,6-Tribromophenol	330	17.444	17.459	(1.105)	19385	7.74624	7.746
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.850	18.865	(1.000)	192517	4.00000	
60	Phenanthrene	178	18.896	18.919	(1.002)	43792	0.93759	0.9376
61	Anthracene	178	18.989	19.005	(1.007)	10130	0.22218	0.2222
62	Carbazole	167	19.306	19.322	(1.024)	1747	0.03556	0.03556
63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	6631	0.10285	0.1029
64	Fluoranthene	202	21.279	21.271	(0.892)	36945	1.02643	1.026
65	Pyrene	202	21.689	21.689	(0.909)	37069	1.02548	1.025
$ 66	Terphenyl-d14	244	21.937	21.952	(0.920)	110430	5.01384	5.014
67	Butylbenzylphthalate	149	22.835	22.851	(0.957)	1350	0.07010	0.07010
68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	11520	0.46818	0.4682
* 69	Chrysene-d12	240	23.857	23.873	(1.000)	90895	4.00000	
70	3,3'-Dichlorobenzidine	252	23.772	23.780	(0.996)	1064	0.11775	0.1178
71	Chrysene	228	23.904	23.919	(1.002)	10241	0.45517	0.4552
72	bis(2-Ethylhexyl)phthalate	149	23.850	23.865	(0.957)	11418	0.26611	0.2661
* 134	Di-n-octylphthalate-d4	153	24.910	24.926	(1.000)	279393	4.00000	
73	Di-n-octylphthalate	149	25.166	24.941	(1.010)	1119	0.01732	0.01732
74	Benzo(b)fluoranthene	252	25.870	25.932	(0.964)	2191	0.07083	0.07083
75	Benzo(k)fluoranthene	252	25.870	25.978	(0.964)	2191	0.07270	0.07270
76	Benzo(a)pyrene	252	26.892	26.691	(1.003)	345083	11.6982	11.70
* 77	Perylene-d12	264	26.822	26.822	(1.000)	85877	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.954	29.946	(1.117)	3859	0.16643	0.1664
79	Dibenzo(a,h)anthracene	278	29.978	29.970	(1.118)	273	0.01498	0.01498
80	Benzo(g,h,i)perylene	276	30.871	30.886	(1.151)	1370	0.07161	0.07161
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.457	21.480	(0.899)	285	0.01708	0.01708
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	13.833	13.848	(1.137)	11937	0.22369	0.2237
111	Azobenzene (1,2-DP-Hydrazine)	77	17.305	17.228	(1.096)	466	0.00975	0.009751

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.917	25.978	(0.966)	16461	0.56199	0.5620
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010515.D
Lab Smp Id: 22L0246-13
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	80145	-1.93
27 Naphthalene-d8	307034	153517	614068	314017	2.27
42 Acenaphthene-d10	140557	70279	281114	121183	-13.78
59 Phenanthrene-d10	243620	121810	487240	192517	-20.98
69 Chrysene-d12	144852	72426	289704	90895	-37.25
134 Di-n-octylphthala	387178	193589	774356	279393	-27.84
77 Perylene-d12	106683	53342	213366	85877	-19.50

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.86	-0.06
134 Di-n-octylphthala	24.93	24.43	25.43	24.91	-0.06
77 Perylene-d12	26.82	26.32	27.32	26.82	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010515.D

Lab ID: 22L0246-13
nt10.i, ABN.m, 05-JAN-2023 22:22

RT	CO-ELUTION COMPOUNDS
9.942	2-Methylphenol and Benzyl alcohol
25.871	Benzo(k)fluoranthene and Benzo(b)fluoranthene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.026	1.058	-0.0320	2,2'-oxybis(1-Chloropropane)
1.028	1.049	-0.0208	2-Methylphenol
0.932	0.925	0.0072	2-Chloronaphthalene
1.075	1.068	0.0069	4-Chlorophenyl-phenylether
0.918	0.906	0.0118	4,6-Dinitro-2-methylphenol
1.010	1.001	0.0096	Di-n-octylphthalate
1.003	0.995	0.0075	Benzo(a)pyrene
1.096	1.089	0.0065	Azobenzene (1,2-DP-Hydrazine)

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT810G

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-14 C	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/20/22 11:22	File ID:	NT1023010516.D
% Solids:	64.07	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/05/23 23:00
Batch:	BKL0489	Sequence:	SLA0061	Initial/Final:	15.64 g Wet / 1 mL
Instrument:	NT10	Column:	ZB-5MSi	Calibration:	GA00013

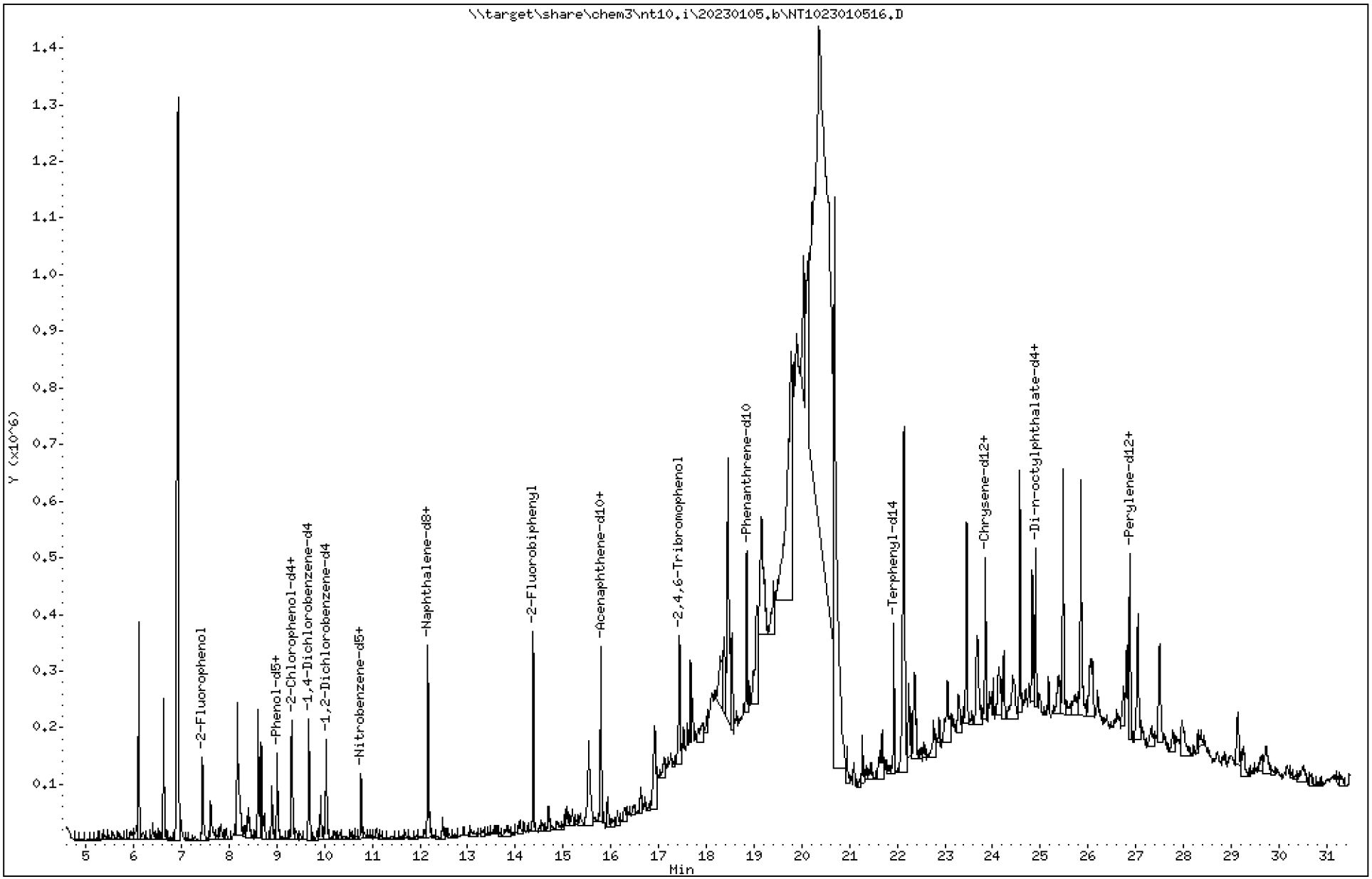
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	498.97	358	71.8	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D
Date : 05-JAN-2023 23:00
Client ID:
Sample Info: 22L0246-14

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

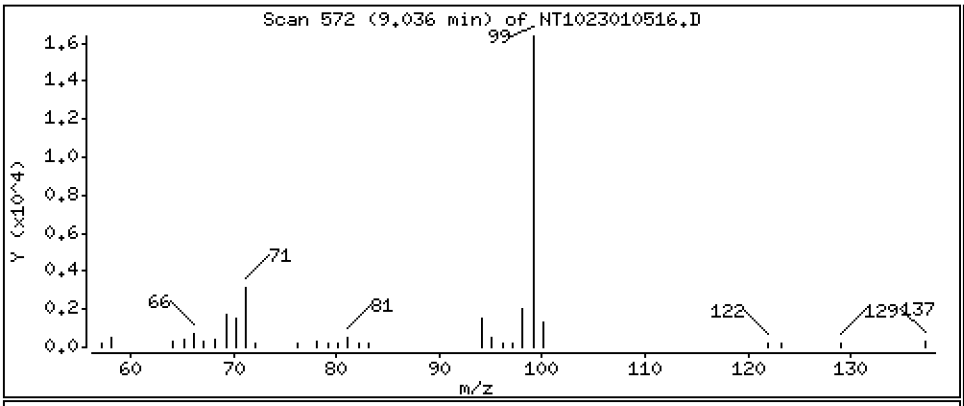
Operator: VTS

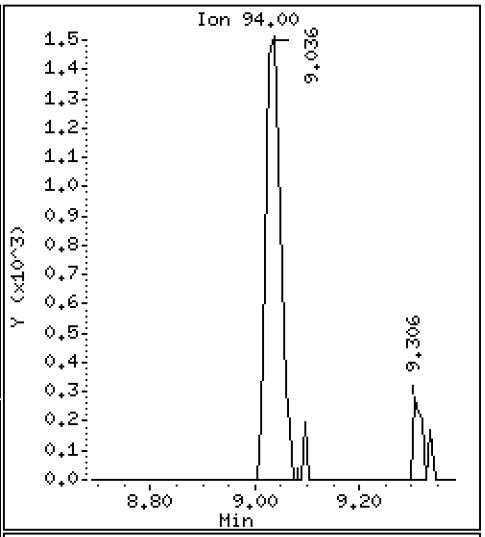
Column phase: ZB-5msi

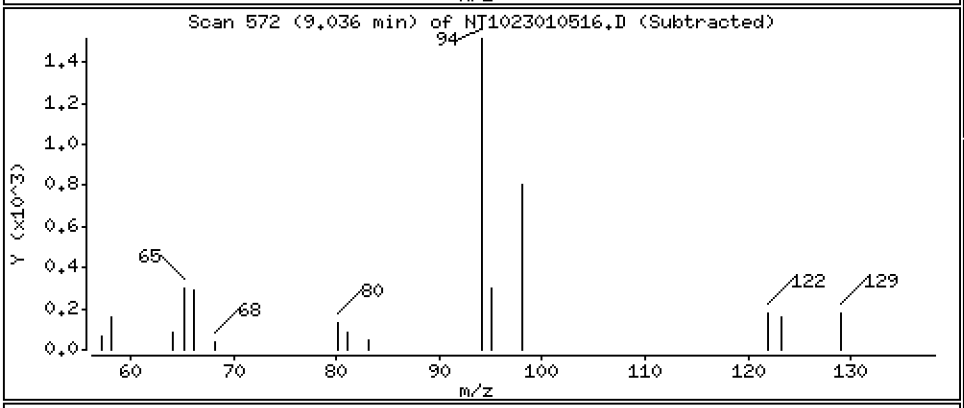
Column diameter: 0.25

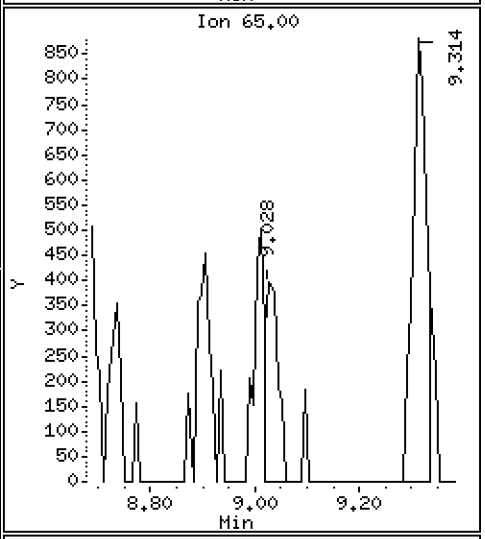
3 Phenol

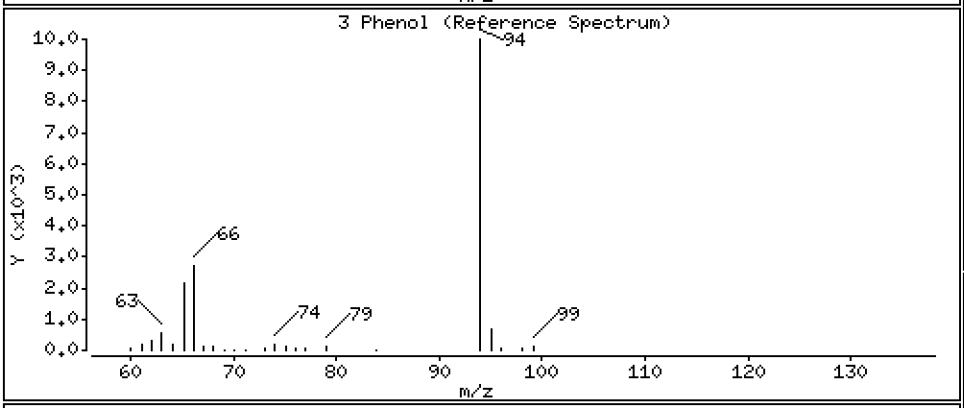
Concentration: 0.09702 ug/mL

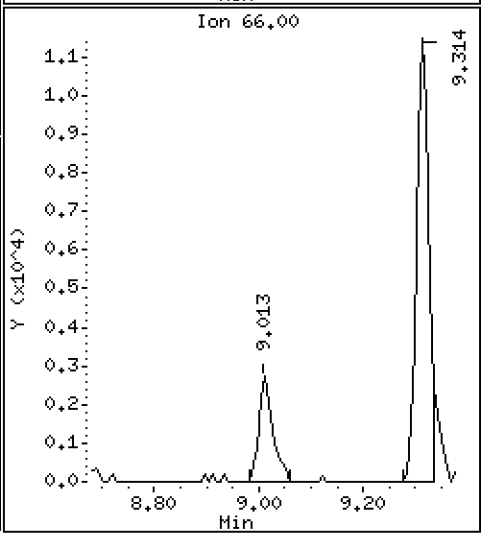


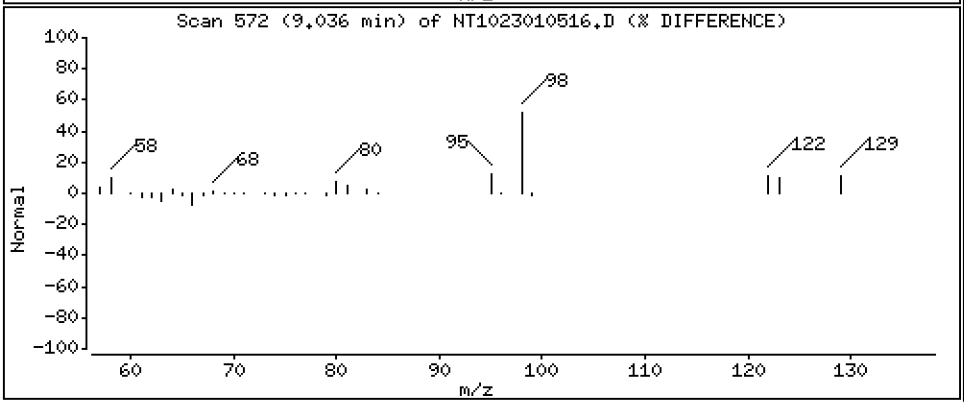












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

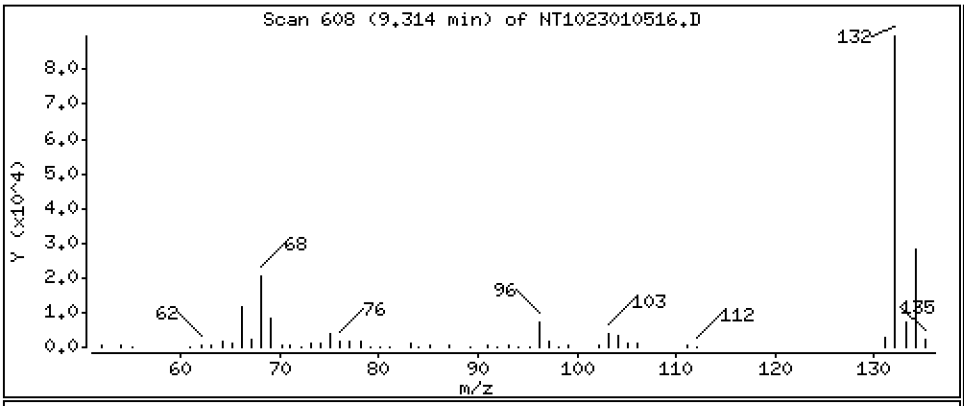
Operator: VTS

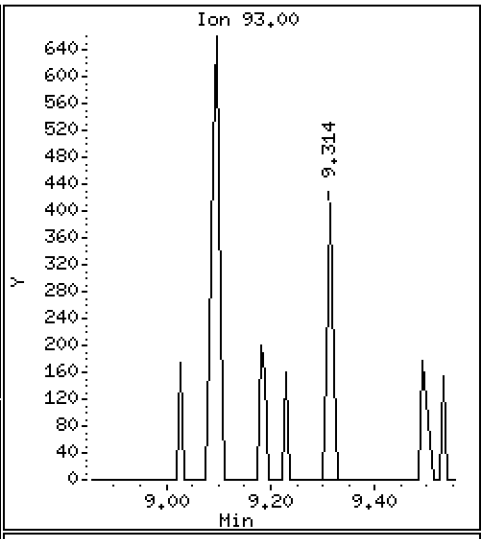
Column phase: ZB-5msi

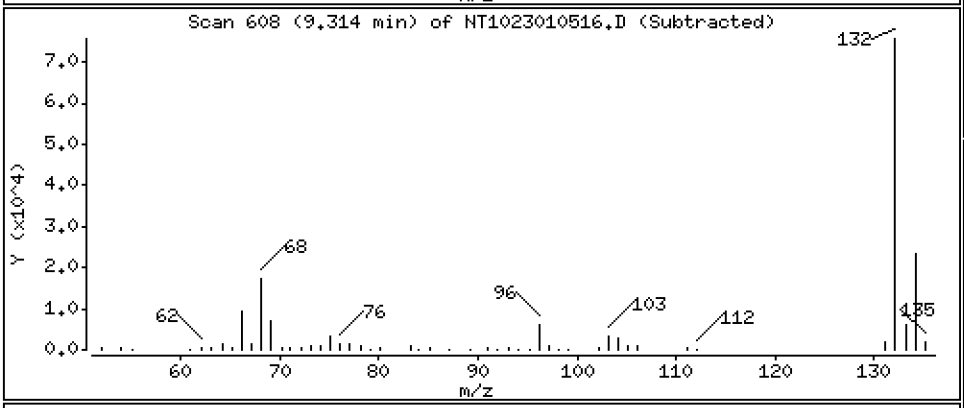
Column diameter: 0.25

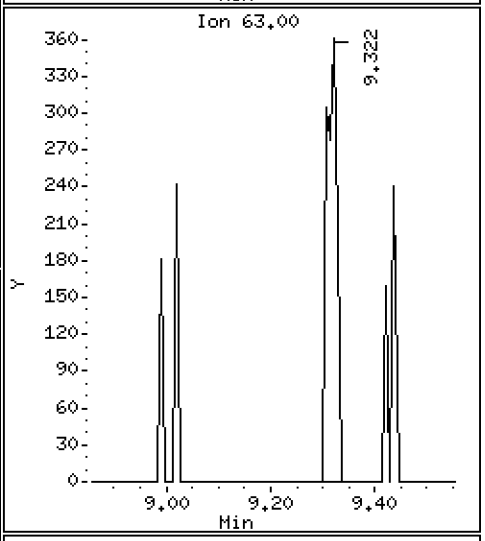
4 Bis(2-Chloroethyl)ether

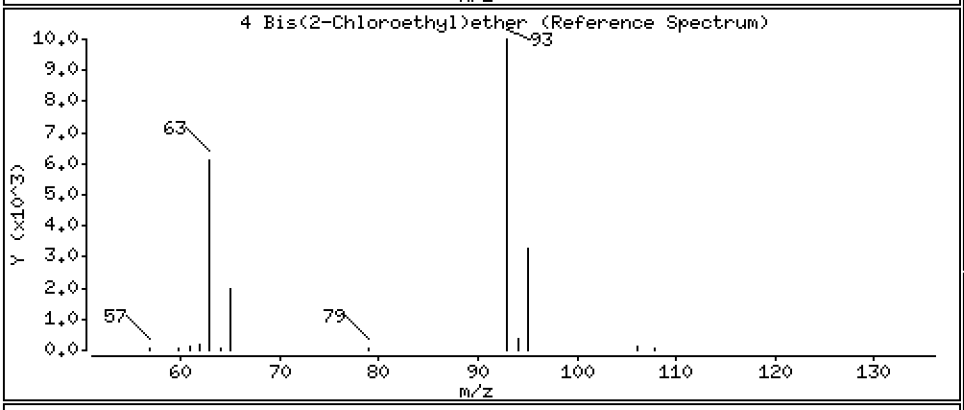
Concentration: 0.01298 ug/mL

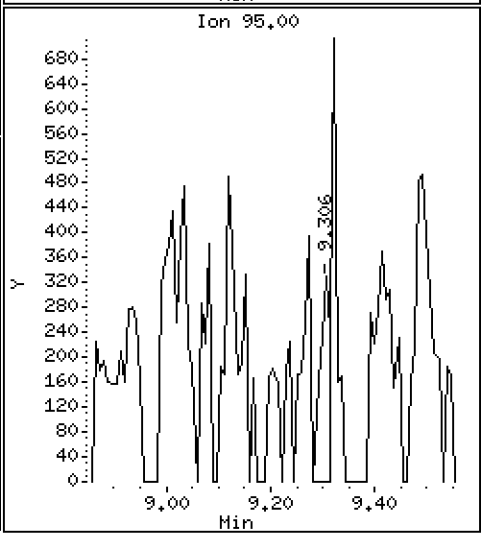


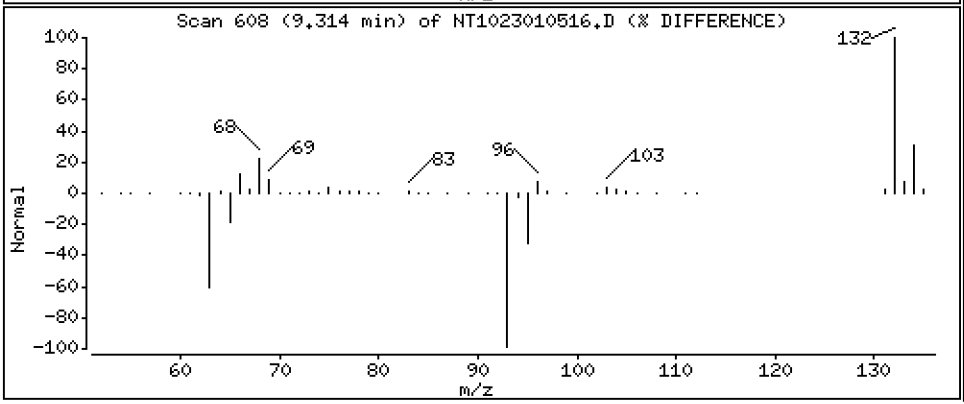












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

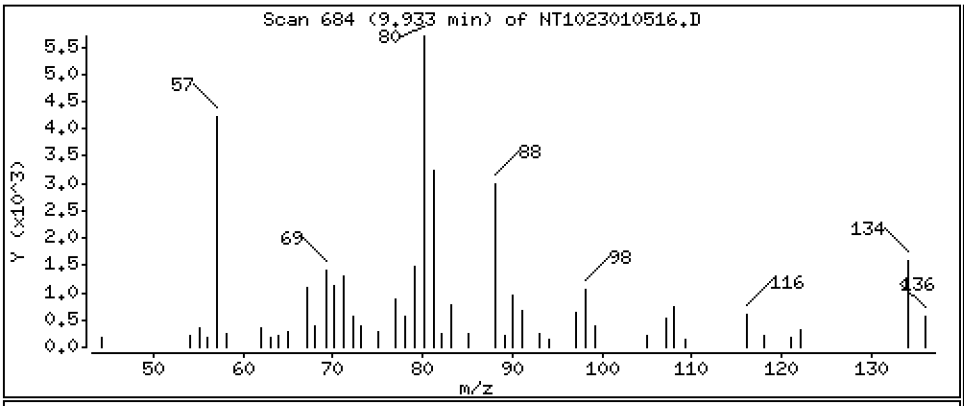
Operator: VTS

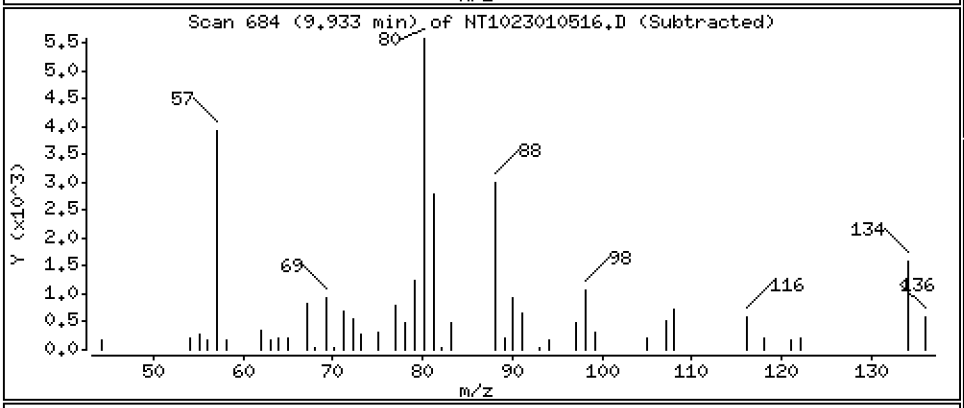
Column phase: ZB-5msi

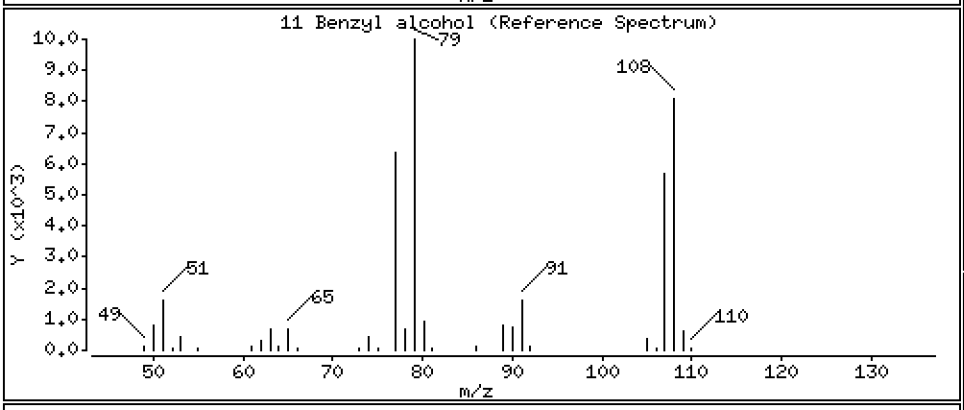
Column diameter: 0.25

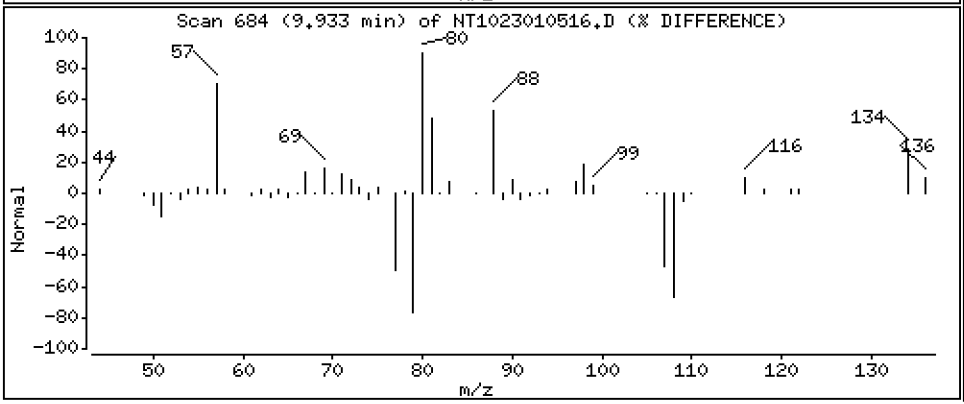
11 Benzyl alcohol

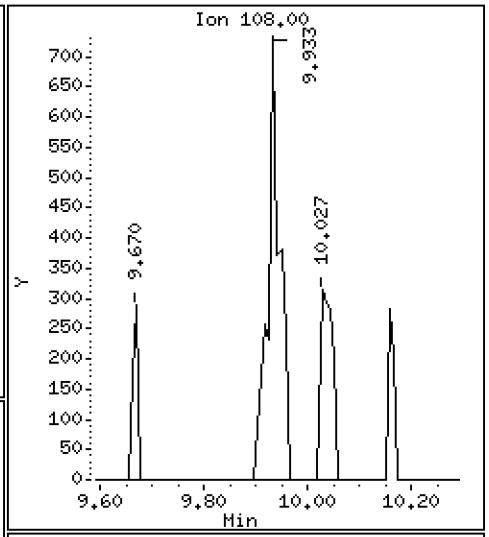
Concentration: 0.09630 ug/mL

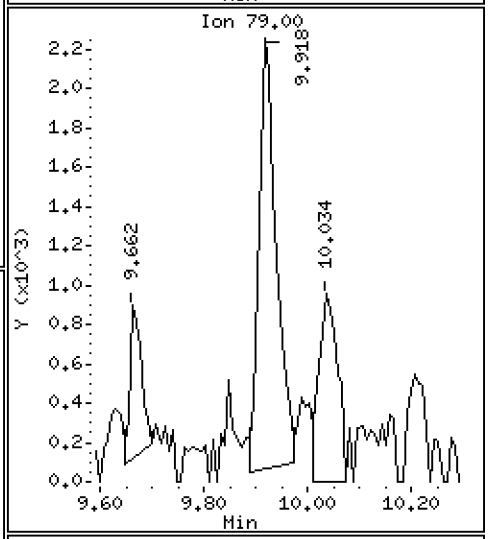


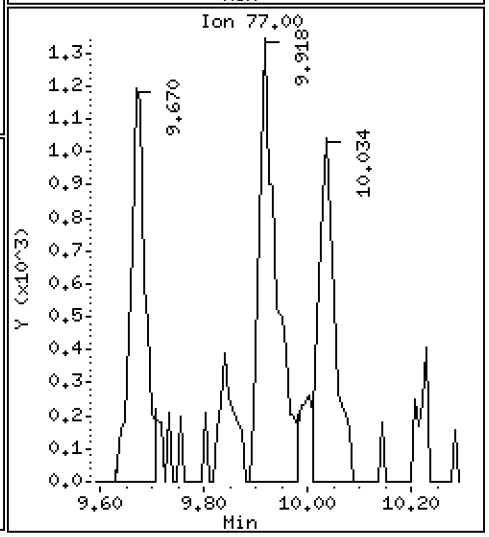












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

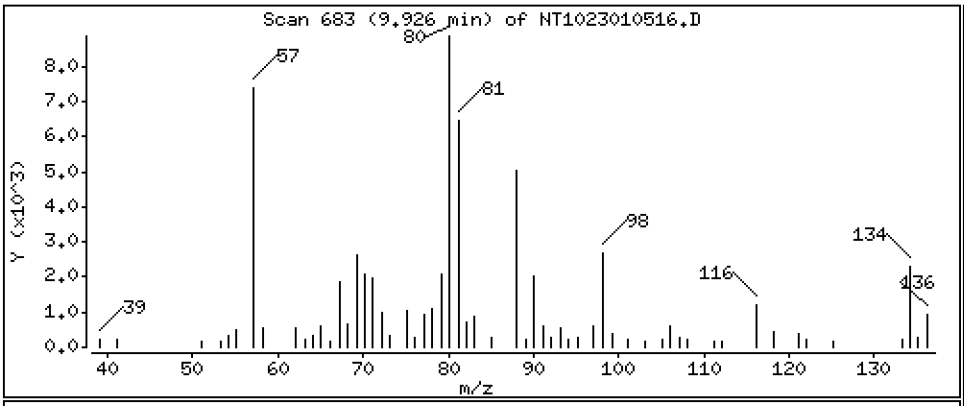
Operator: VTS

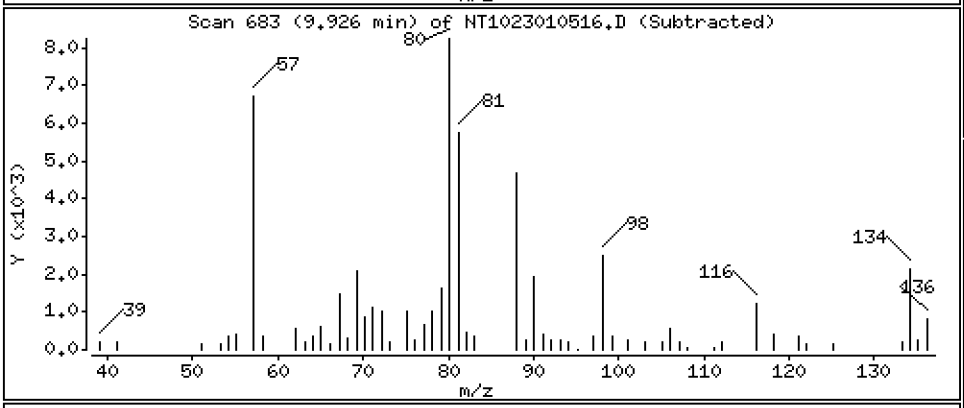
Column phase: ZB-5msi

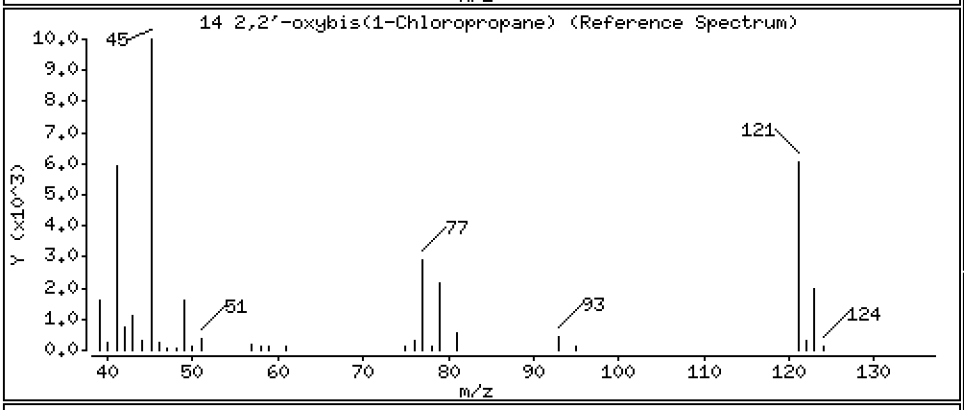
Column diameter: 0.25

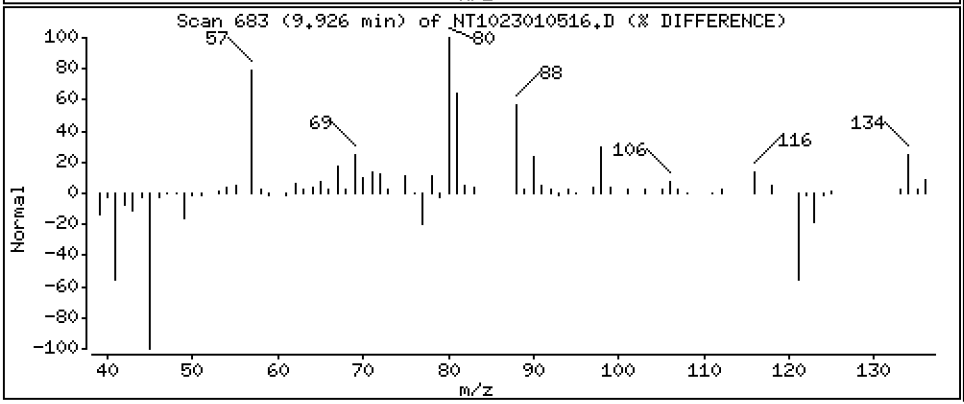
14 2,2'-oxybis(1-Chloropropane)

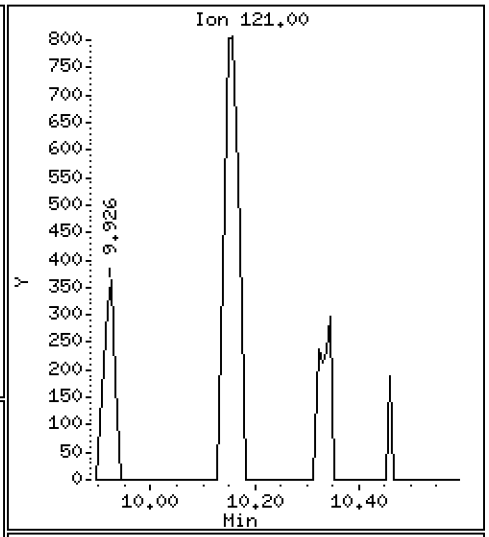
Concentration: 0.07510 ug/mL

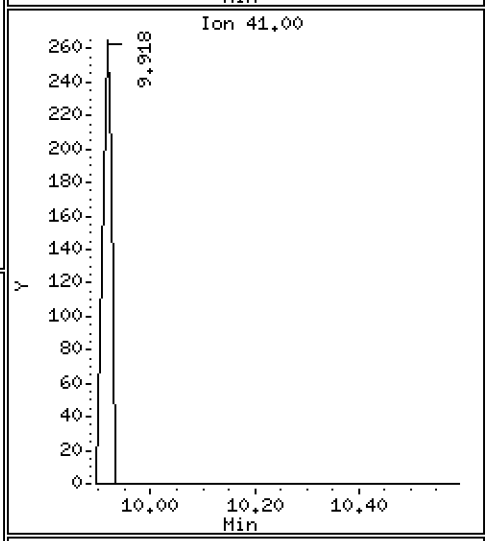


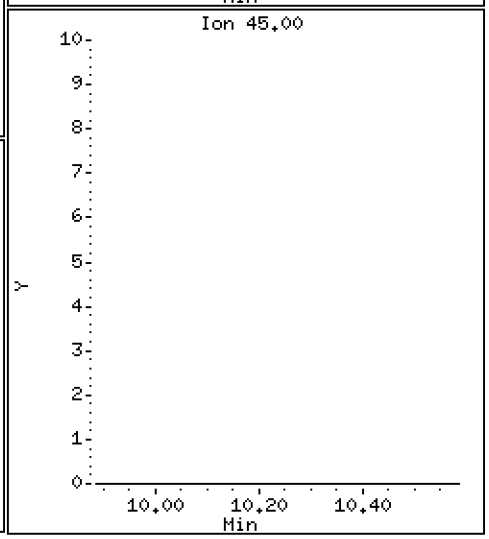












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

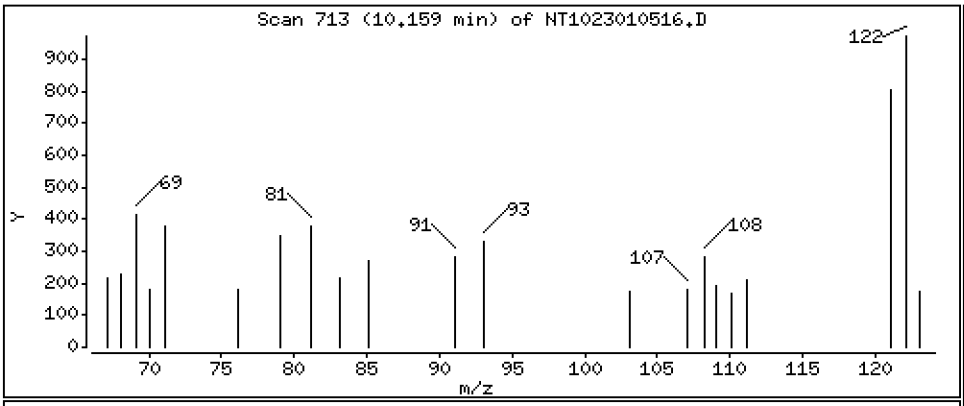
Operator: VTS

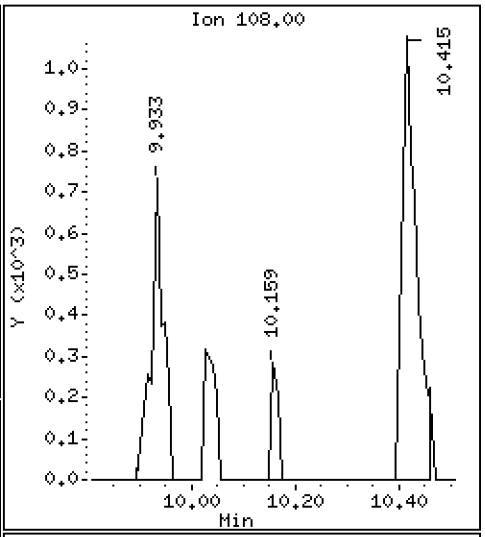
Column phase: ZB-5msi

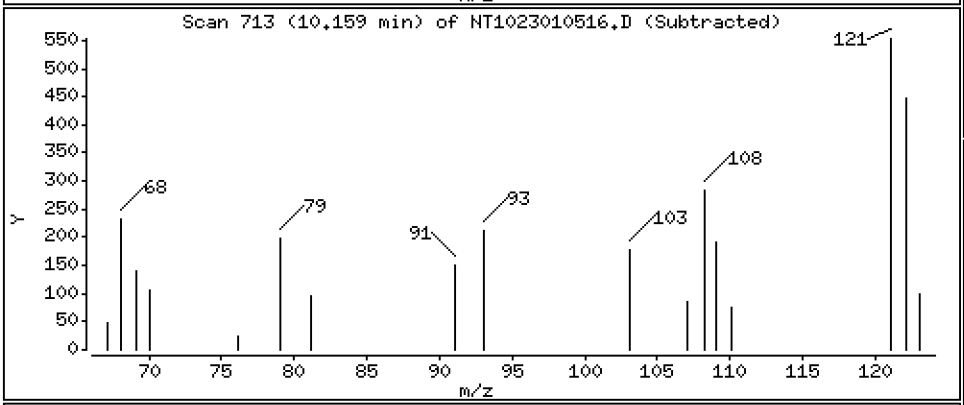
Column diameter: 0.25

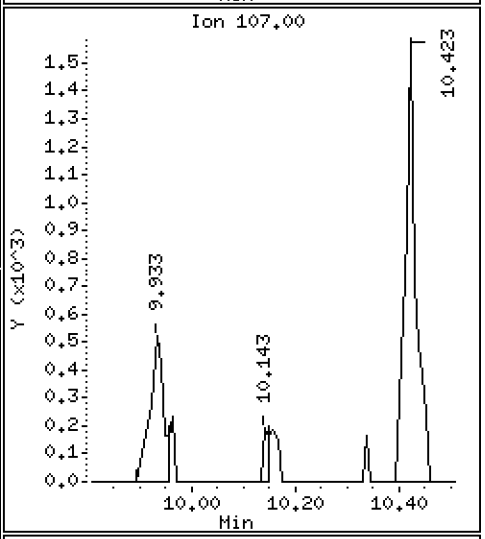
13 2-Methylphenol

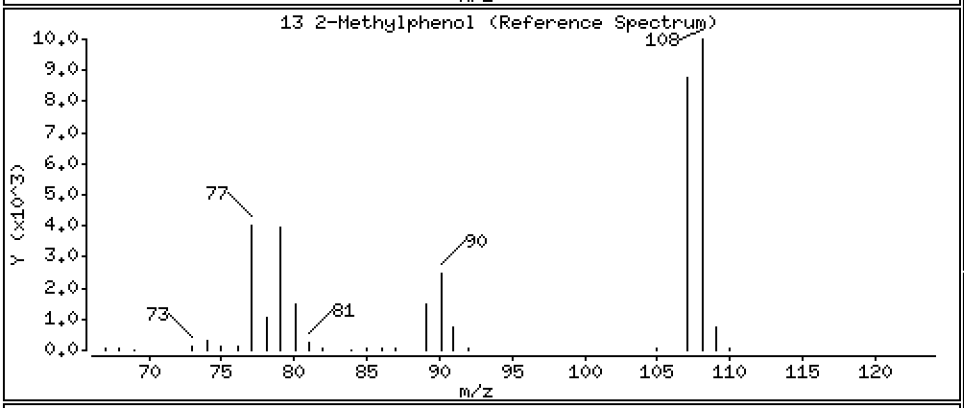
Concentration: 0.01145 ug/mL

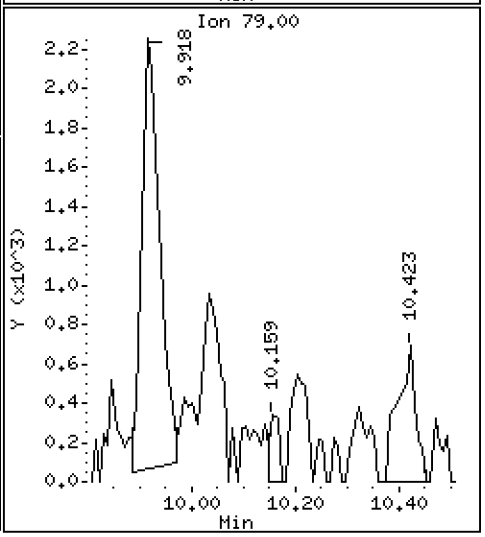


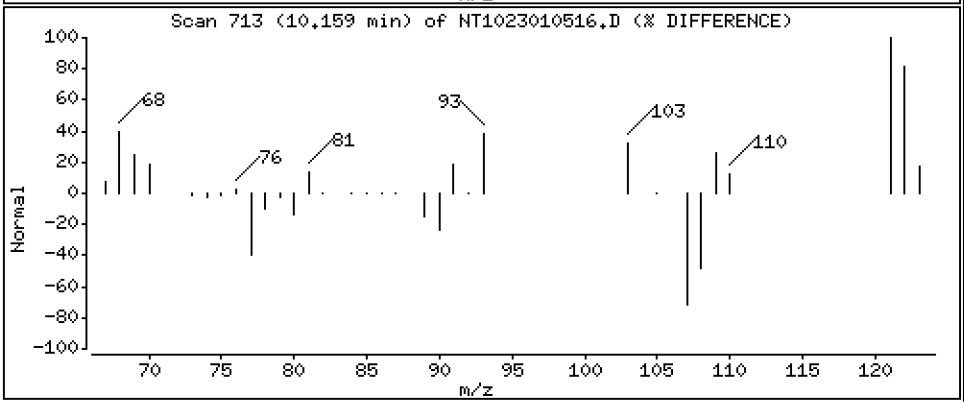












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

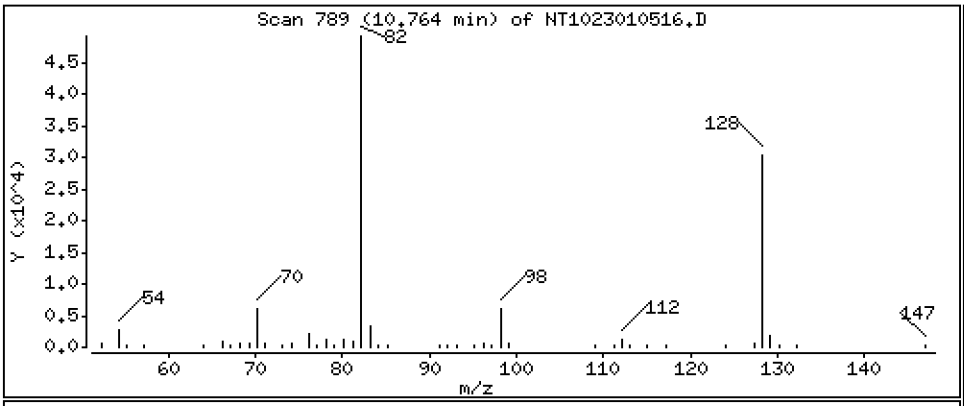
Operator: VTS

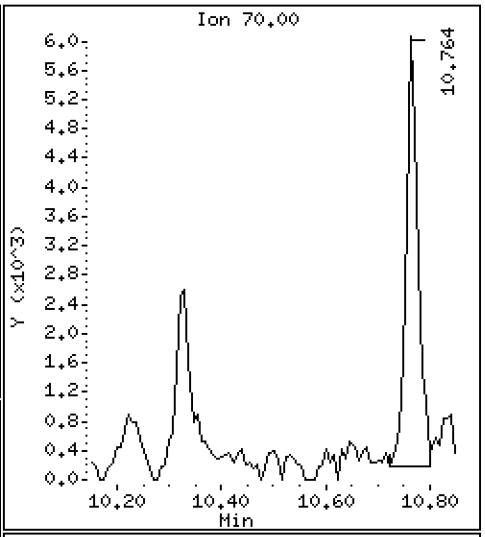
Column phase: ZB-5msi

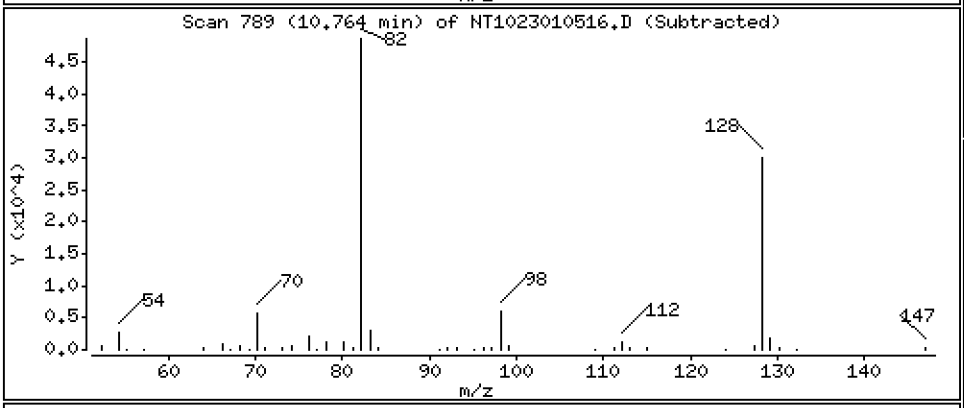
Column diameter: 0.25

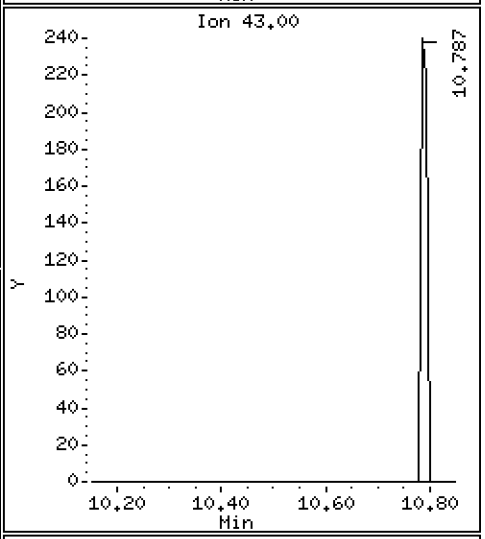
16 N-Nitroso-di-n-propylamine

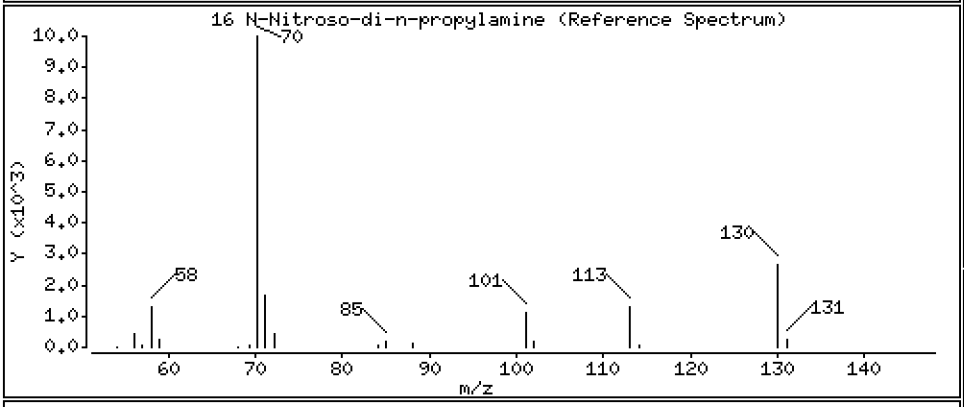
Concentration: 0.9061 ug/mL

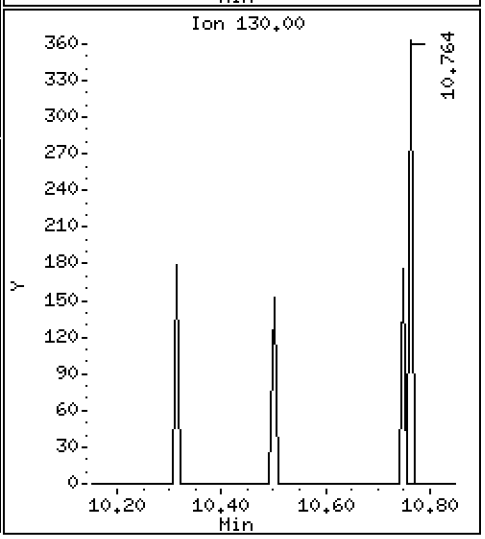


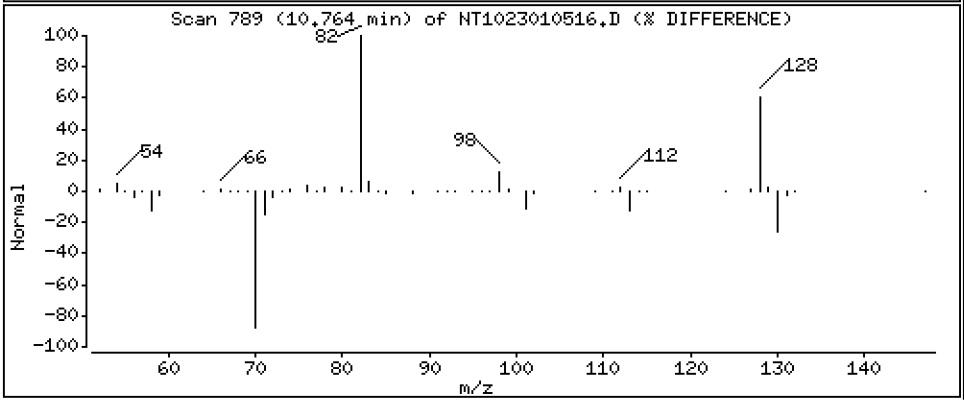












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

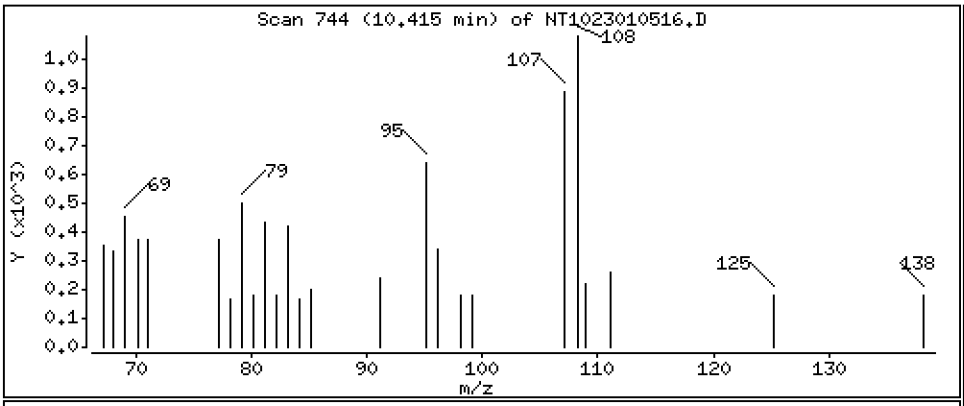
Operator: VTS

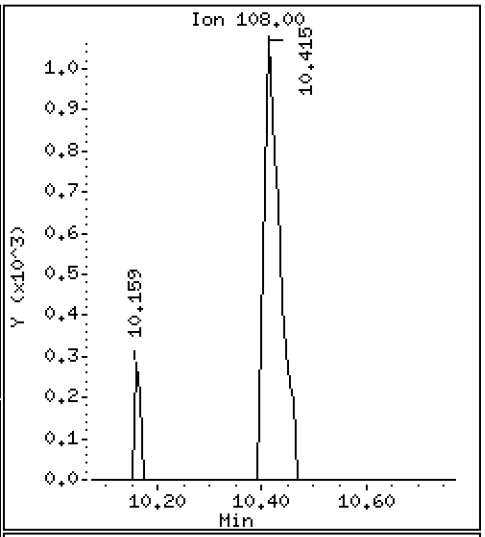
Column phase: ZB-5msi

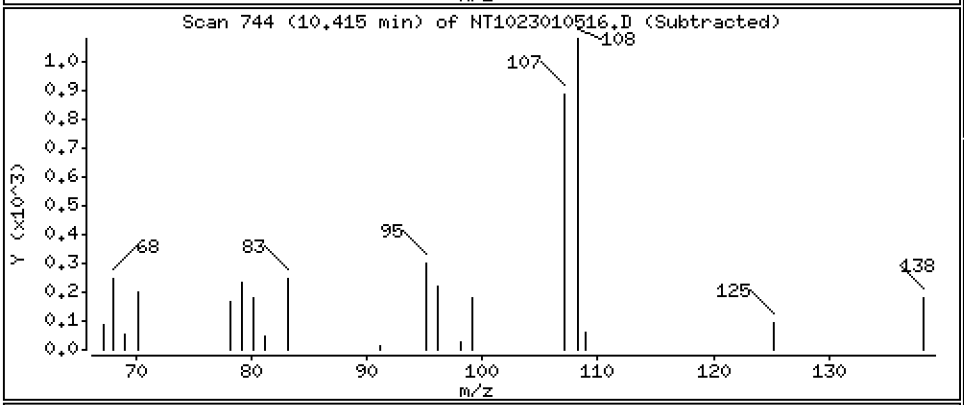
Column diameter: 0.25

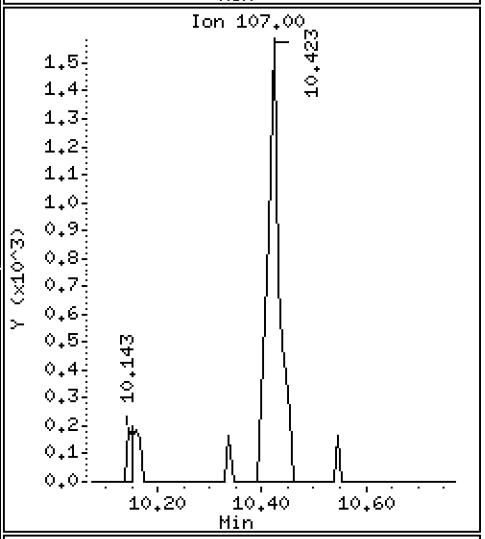
15 4-Methylphenol

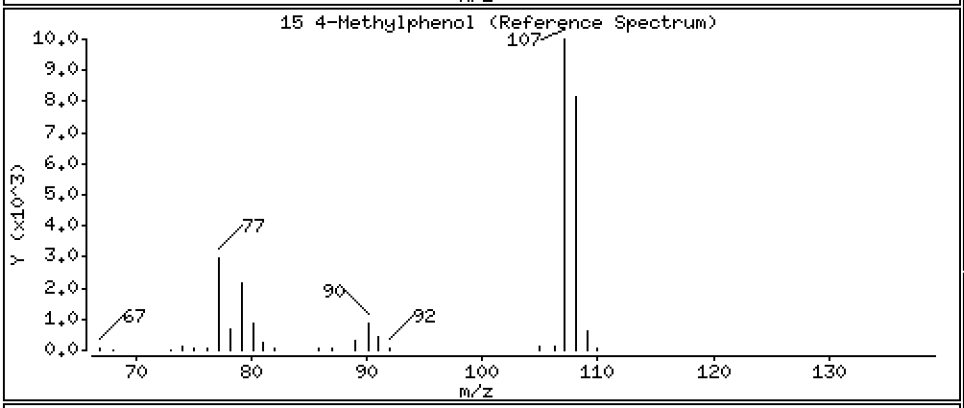
Concentration: 0.1588 ug/mL

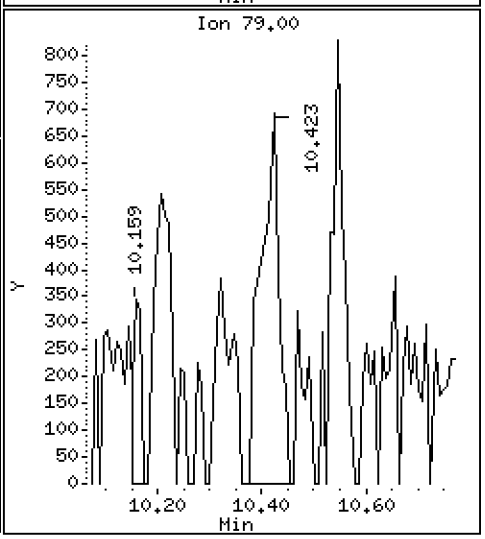


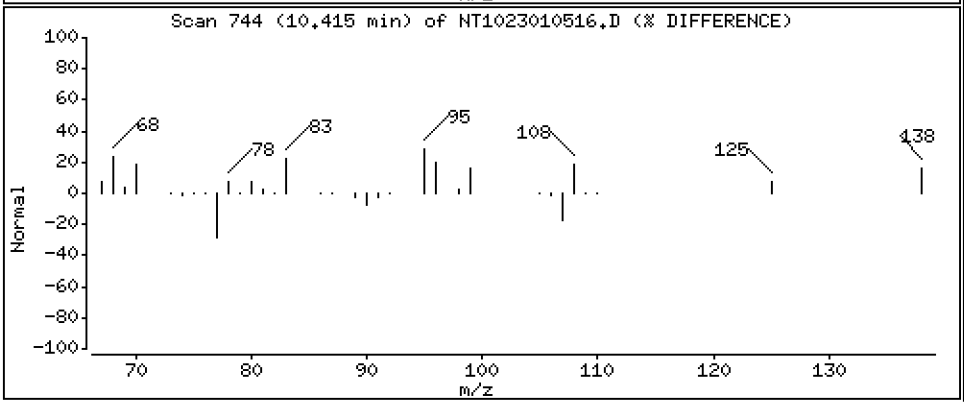












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

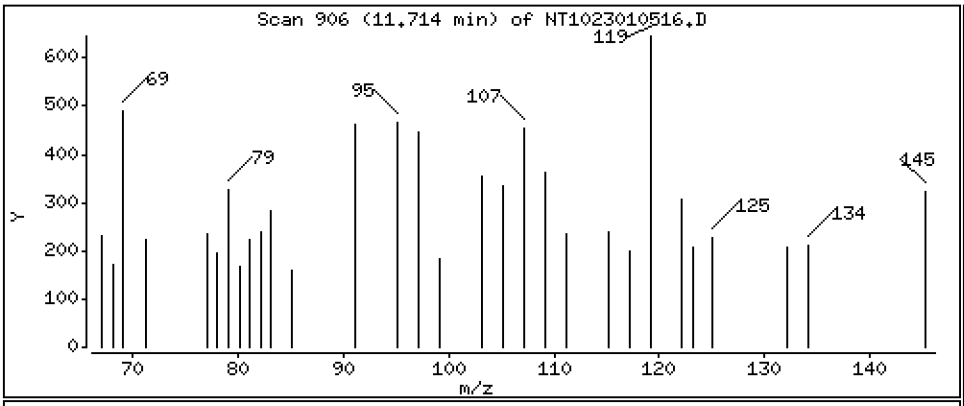
Operator: VTS

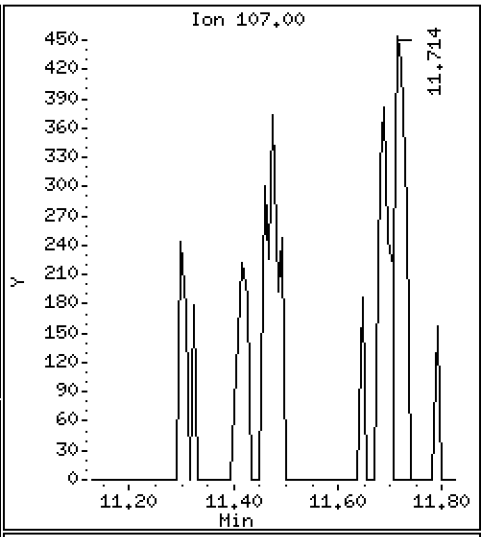
Column phase: ZB-5msi

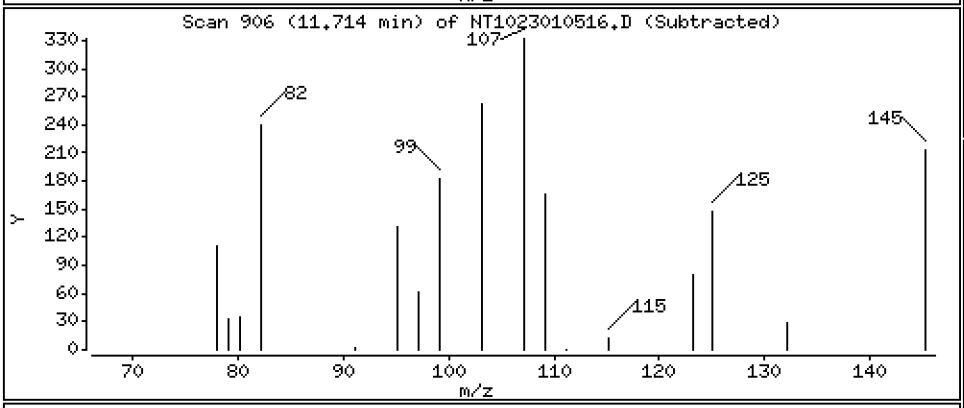
Column diameter: 0.25

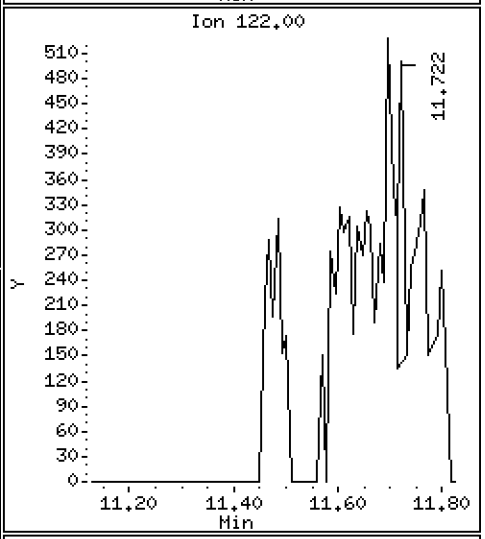
22 2,4-Dimethylphenol

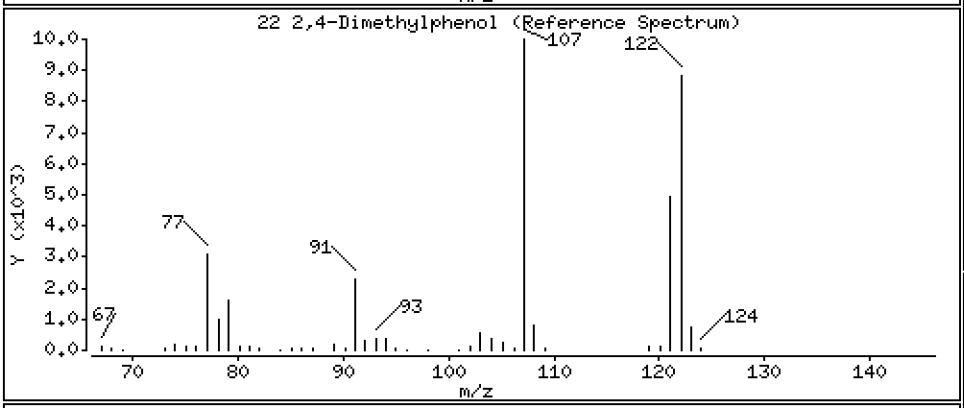
Concentration: 0.02837 ug/mL

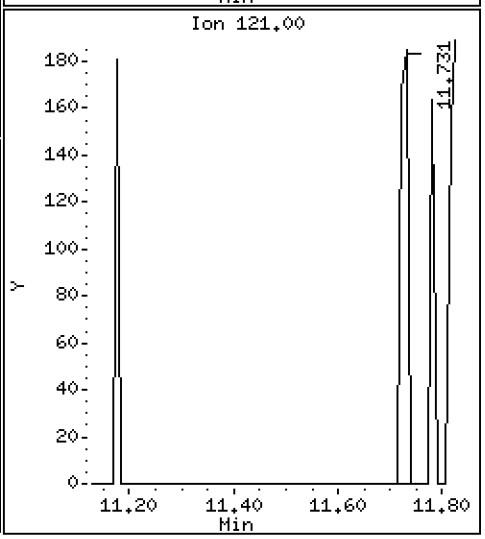


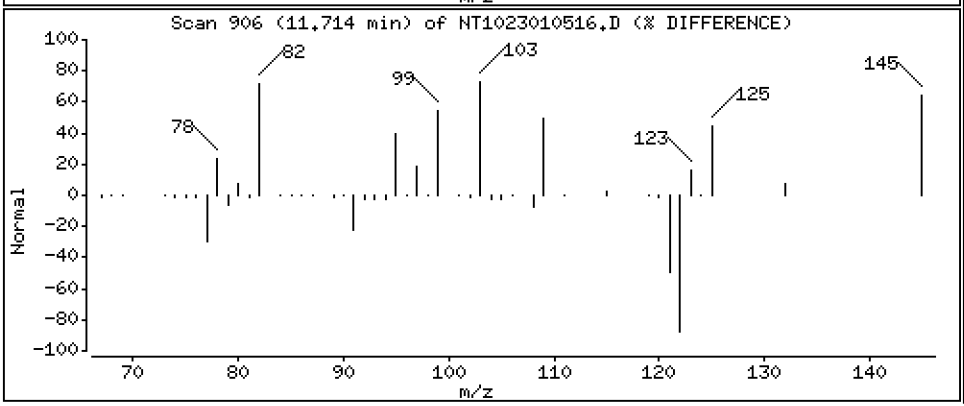












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

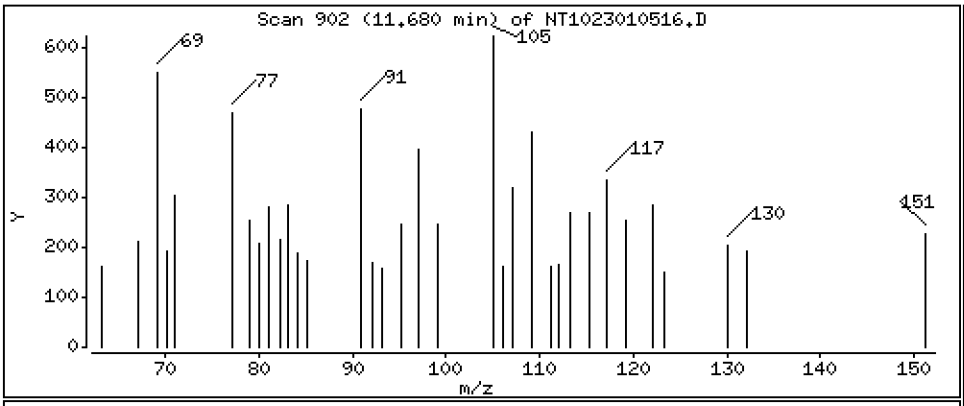
Operator: VTS

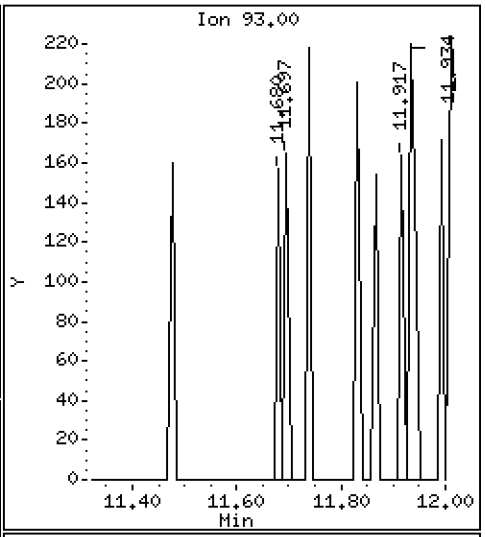
Column phase: ZB-5msi

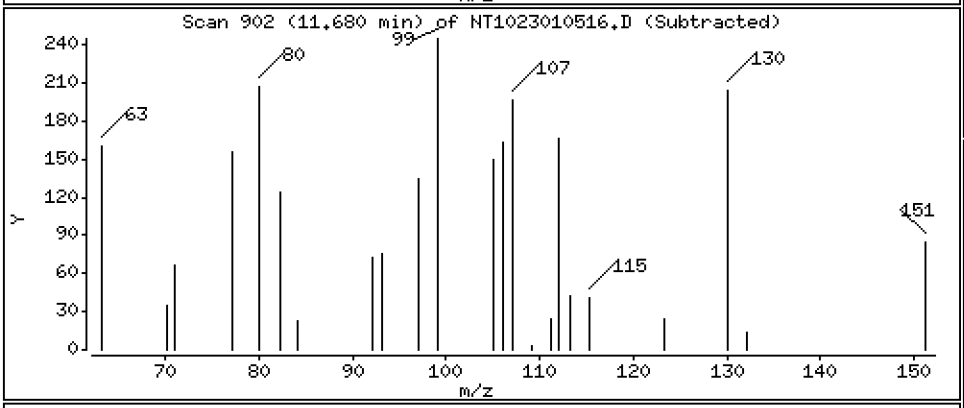
Column diameter: 0.25

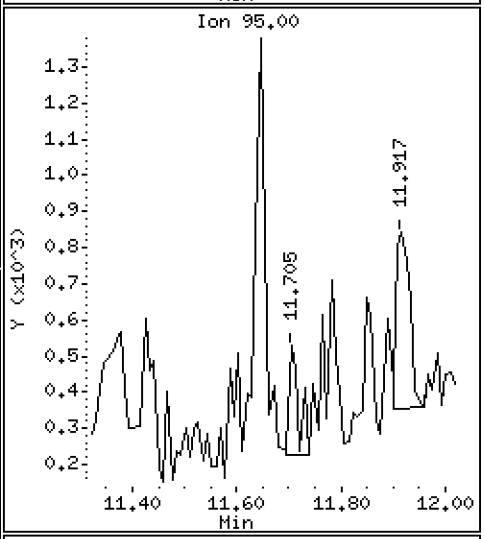
23 Bis(2-Chloroethoxy)methane

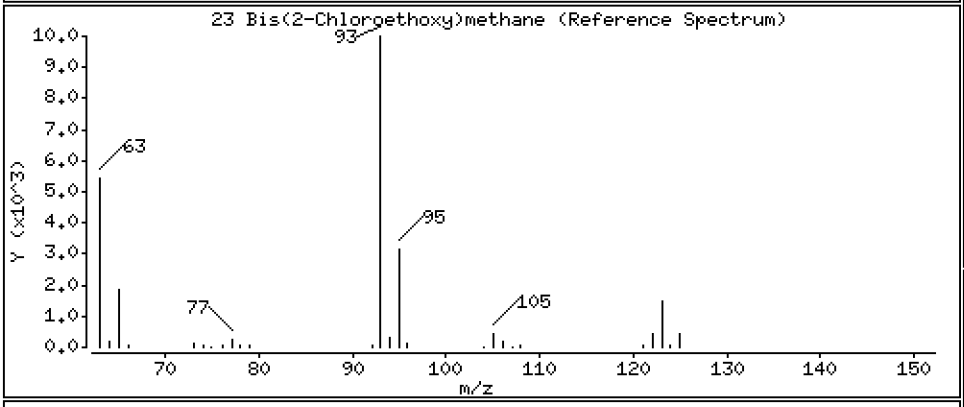
Concentration: 0.003702 ug/mL

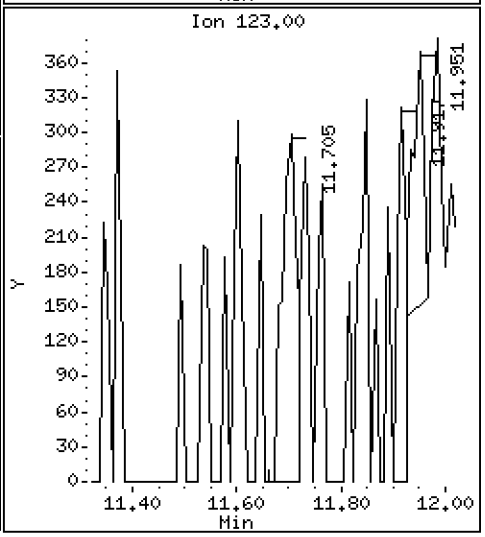


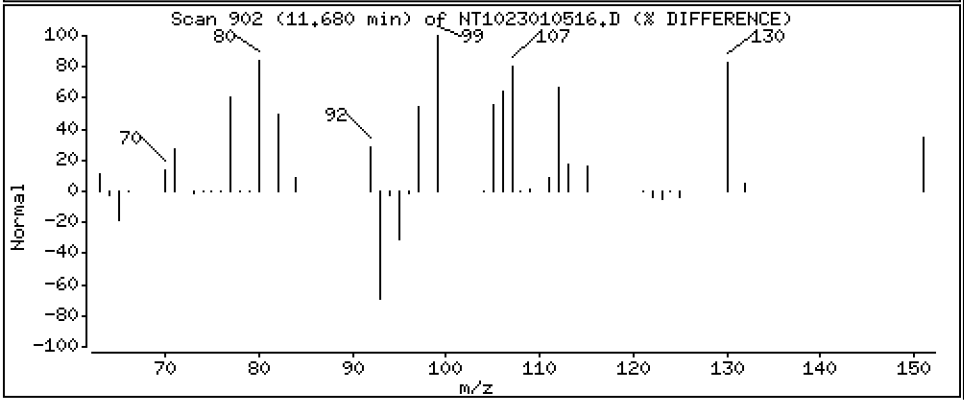












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

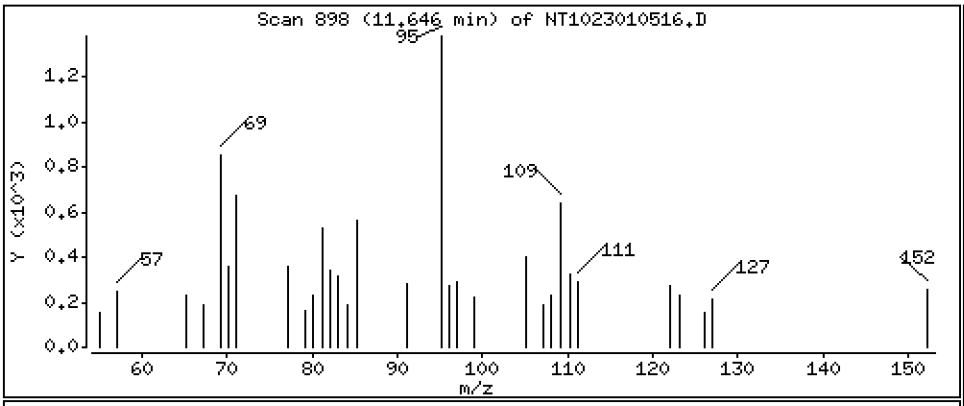
Operator: VTS

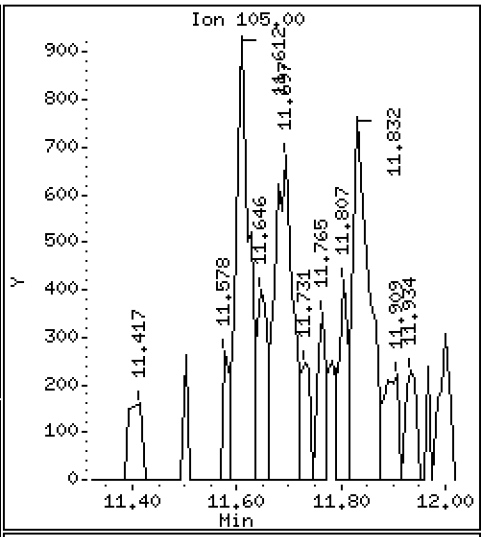
Column phase: ZB-5msi

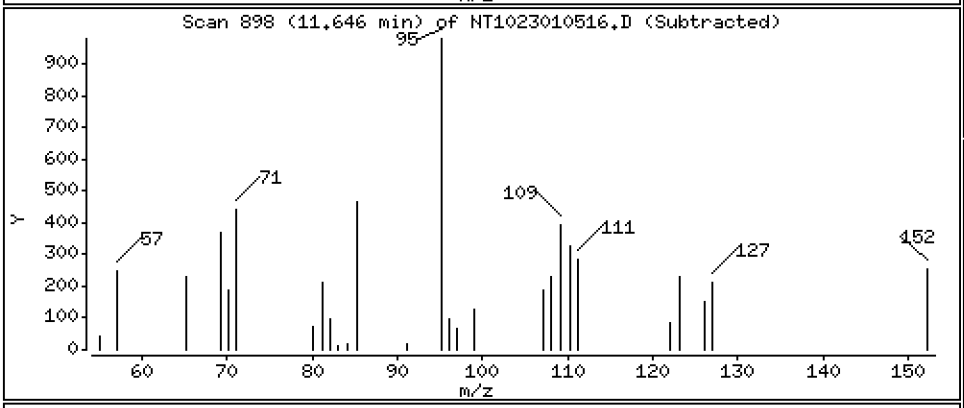
Column diameter: 0.25

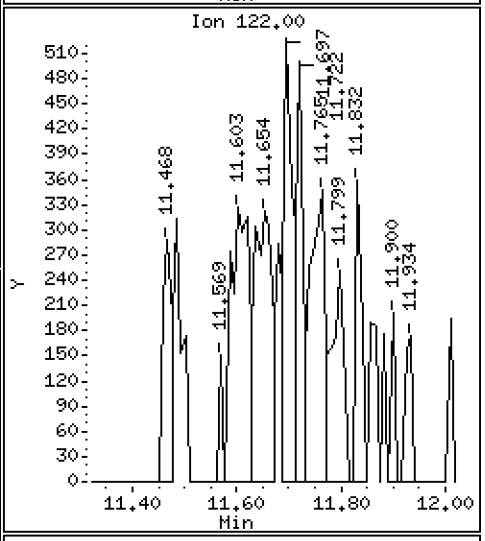
24 Benzoic acid

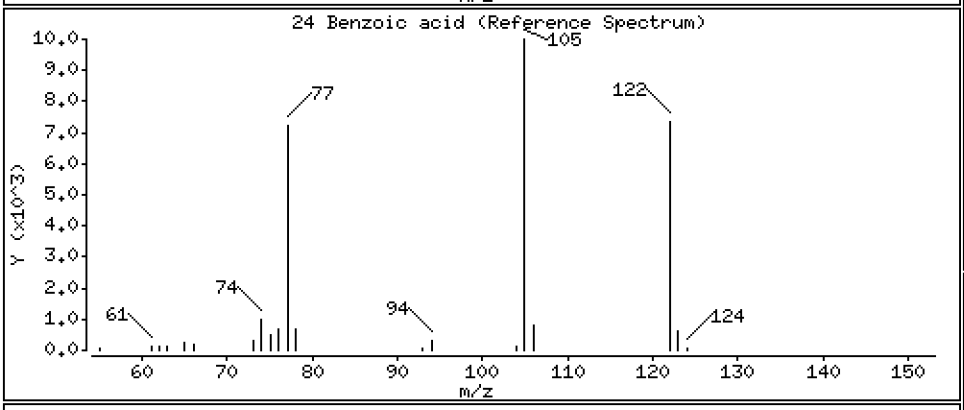
Concentration: 0.06570 ug/mL

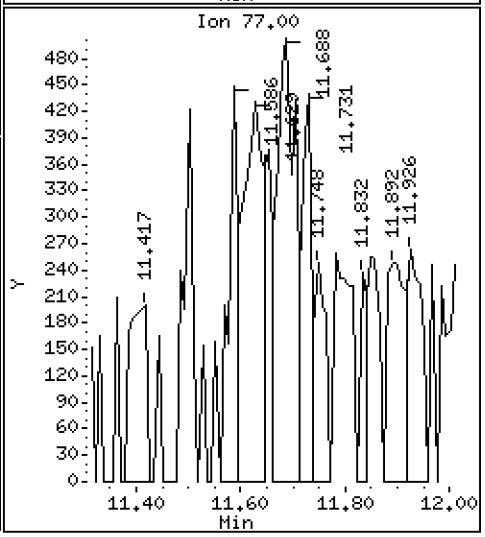


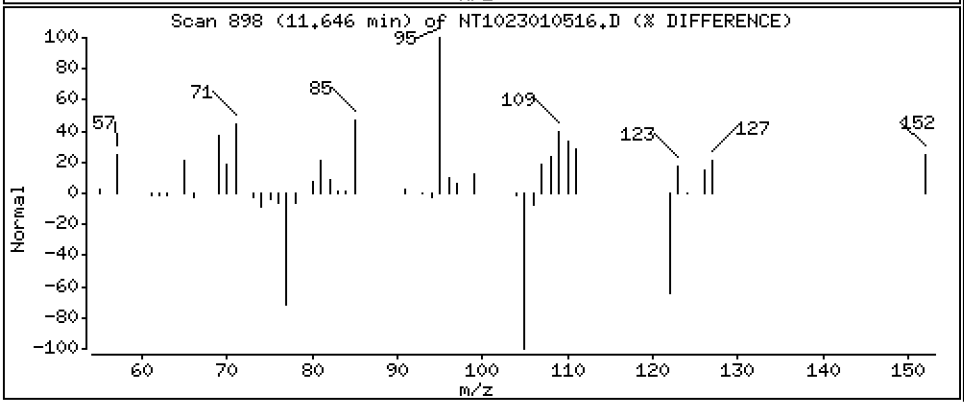












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

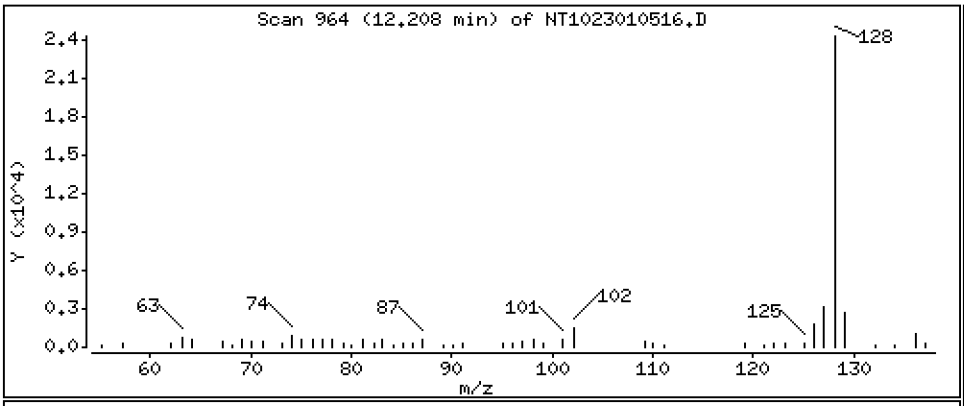
Operator: VTS

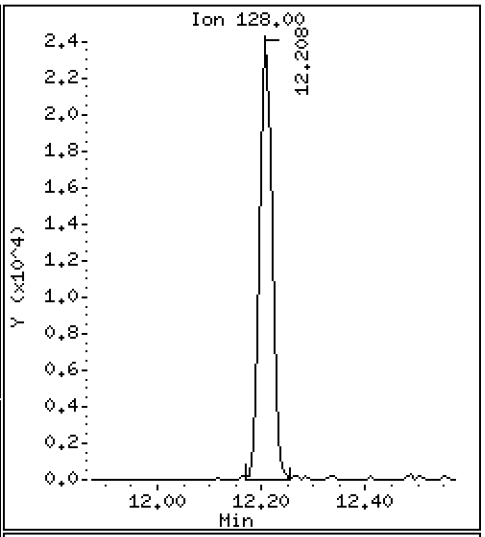
Column phase: ZB-5msi

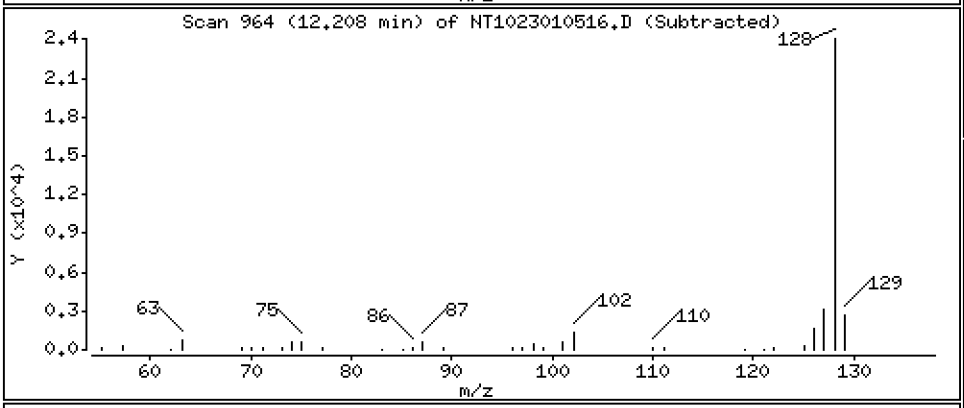
Column diameter: 0.25

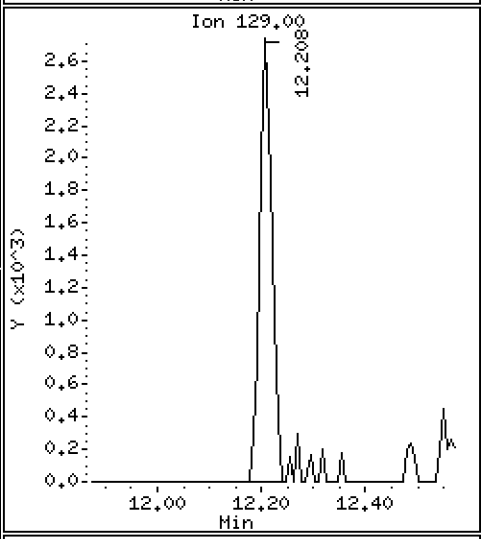
28 Naphthalene

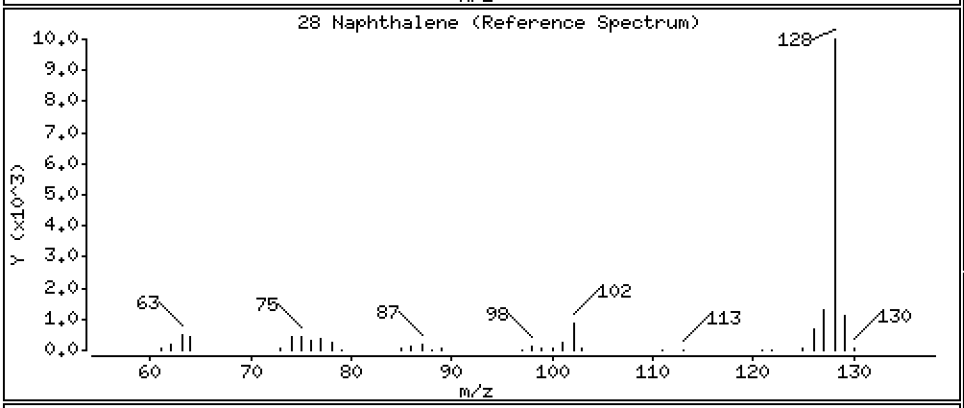
Concentration: 0.5387 ug/mL

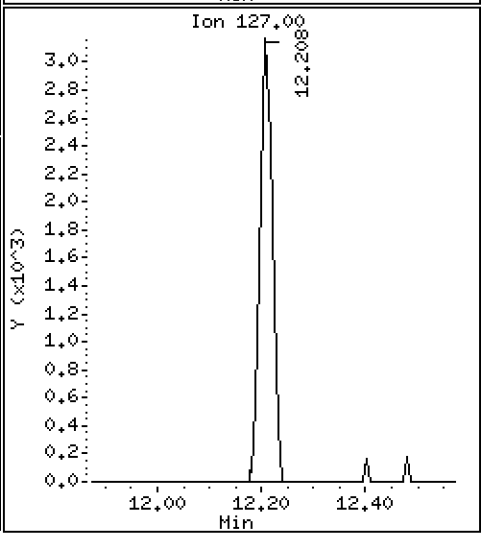


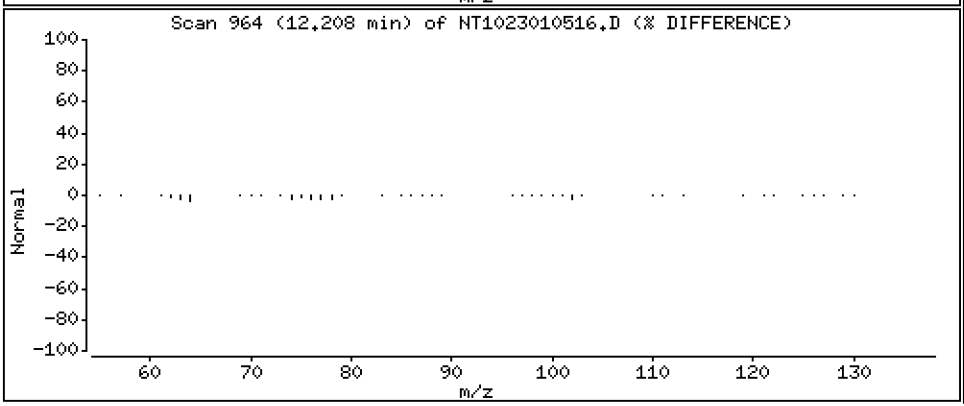












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

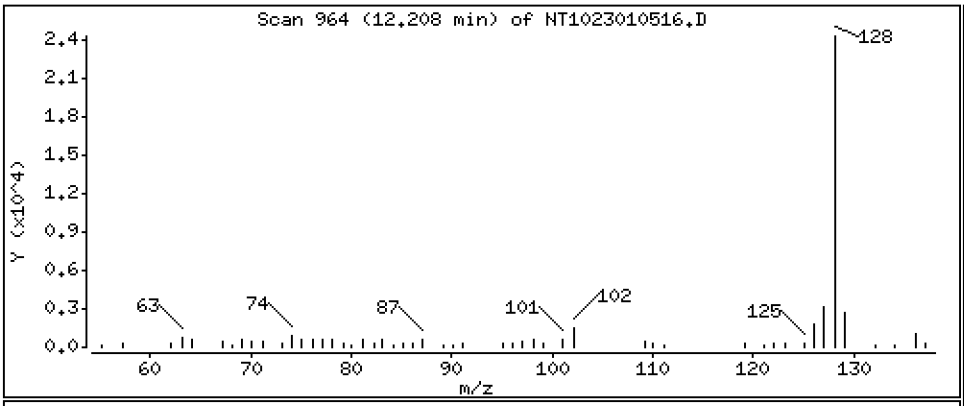
Operator: VTS

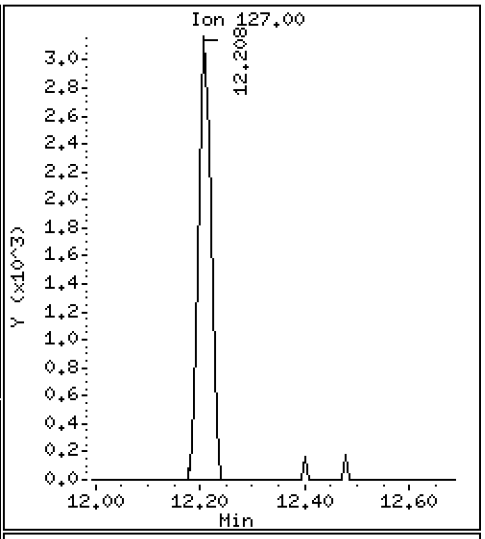
Column phase: ZB-5msi

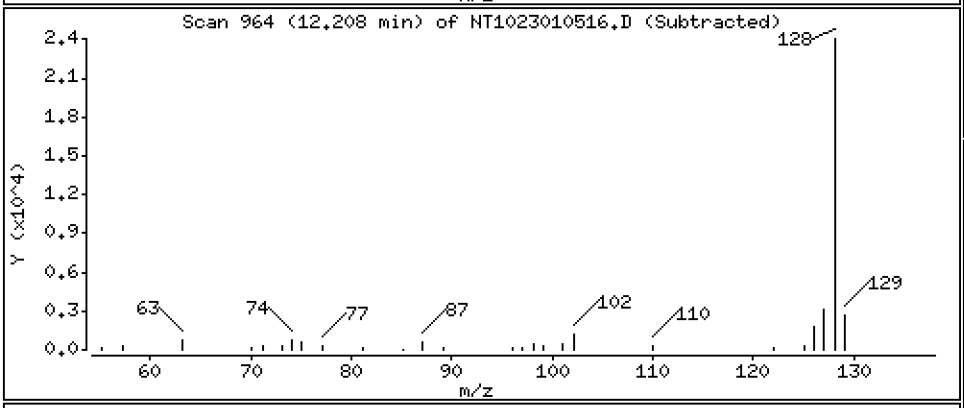
Column diameter: 0.25

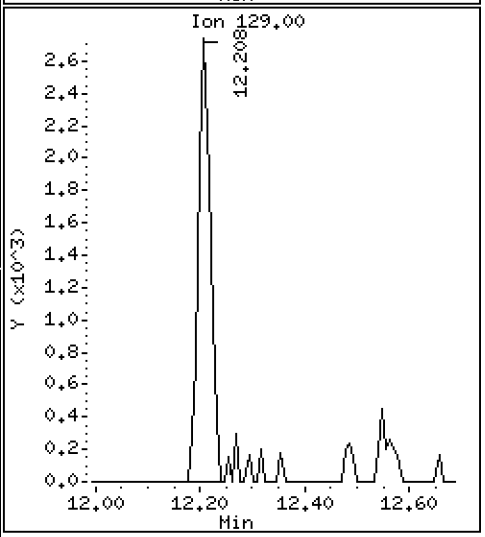
29 4-Chloroaniline

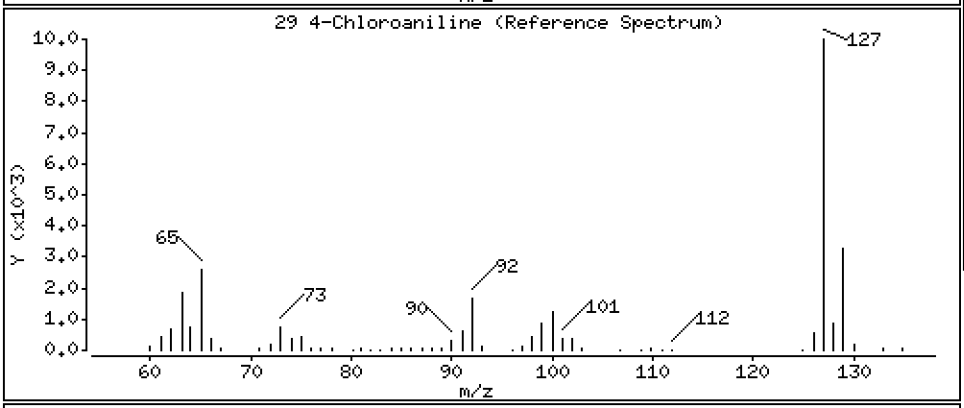
Concentration: 0.1820 ug/mL

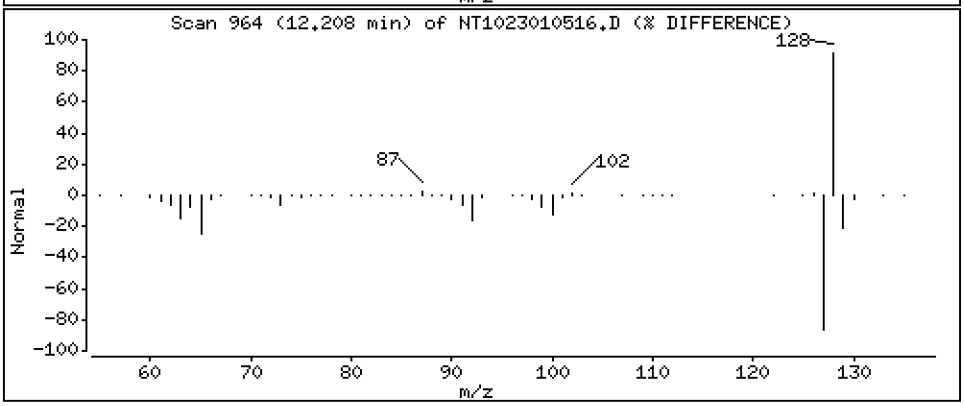












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

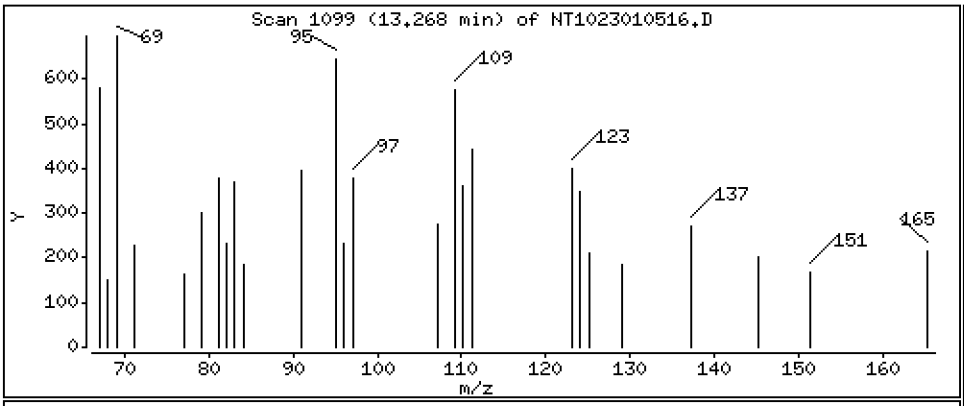
Operator: VTS

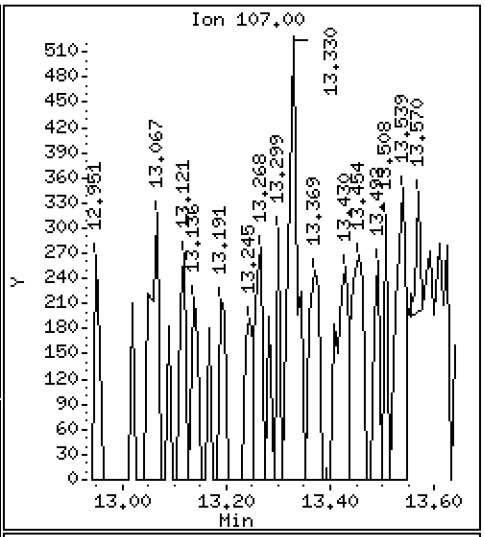
Column phase: ZB-5msi

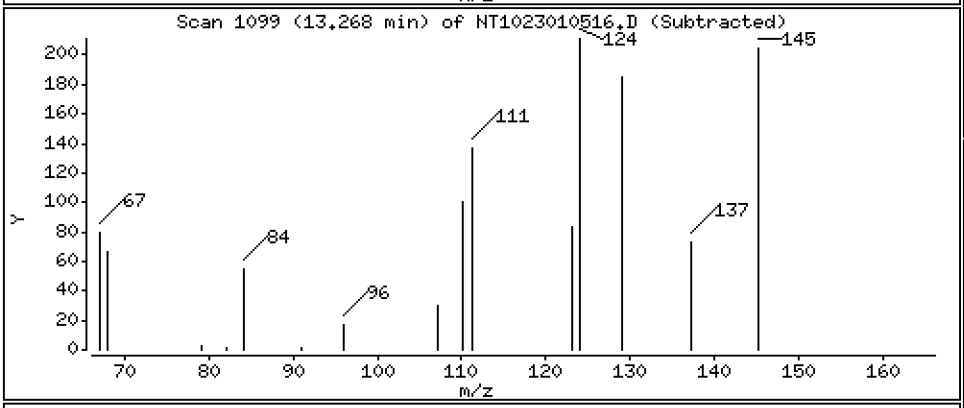
Column diameter: 0.25

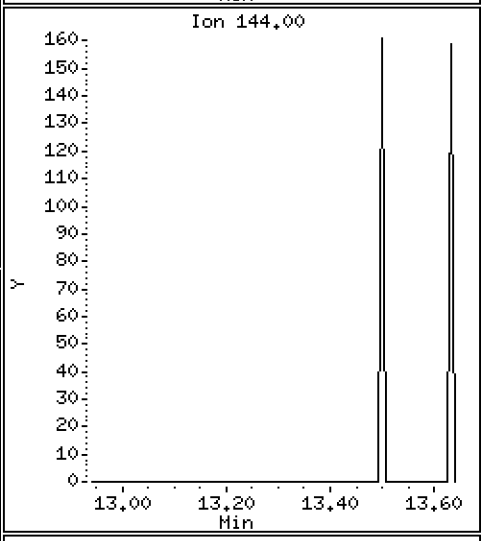
31 4-Chloro-3-methylphenol

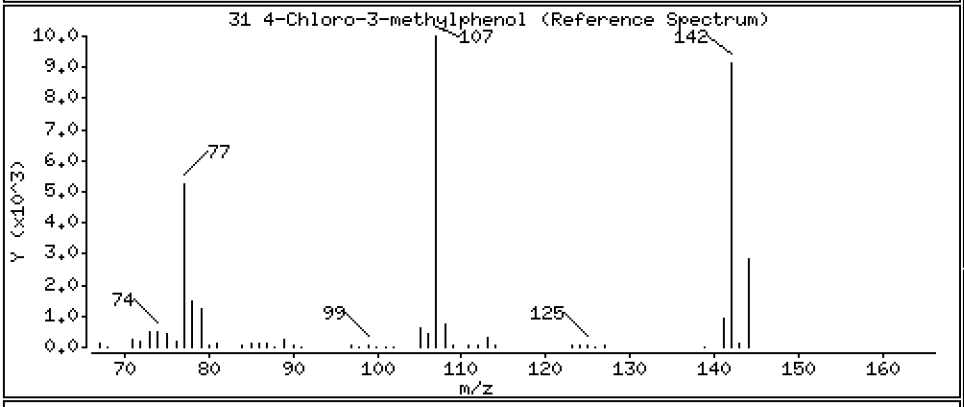
Concentration: 0.02050 ug/mL

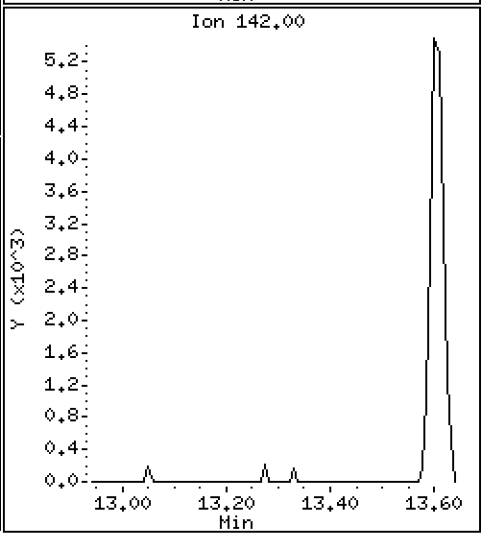


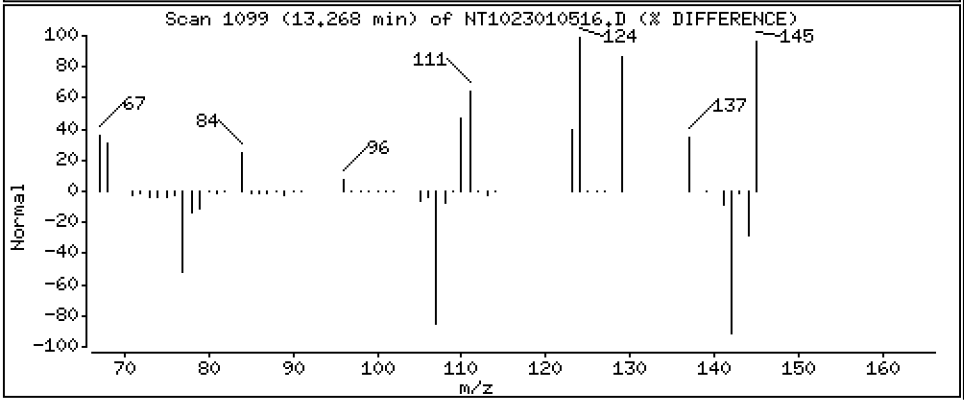












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

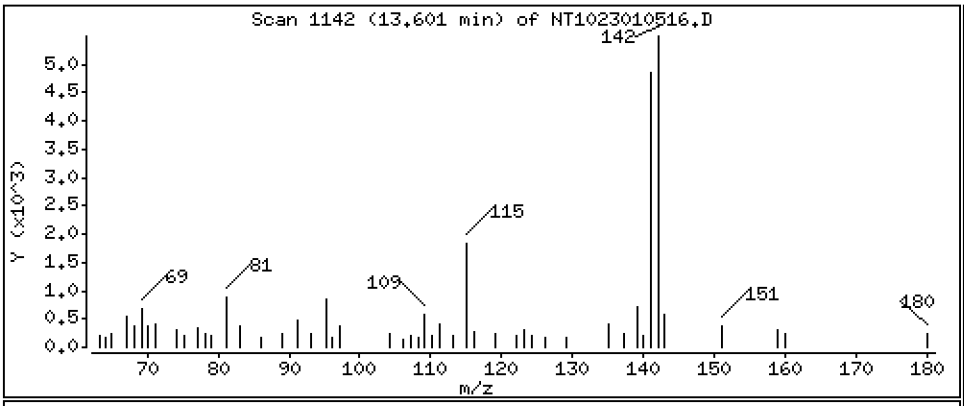
Operator: VTS

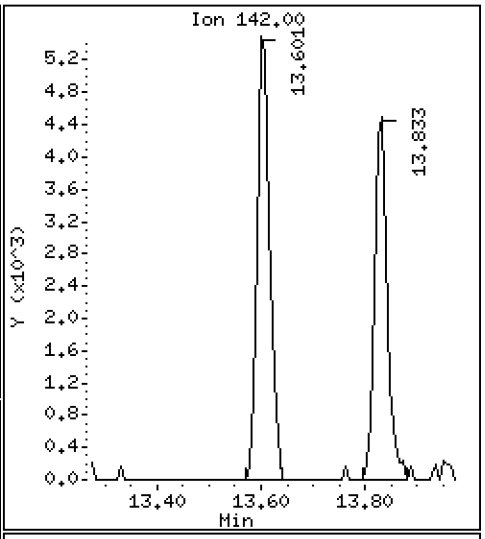
Column phase: ZB-5msi

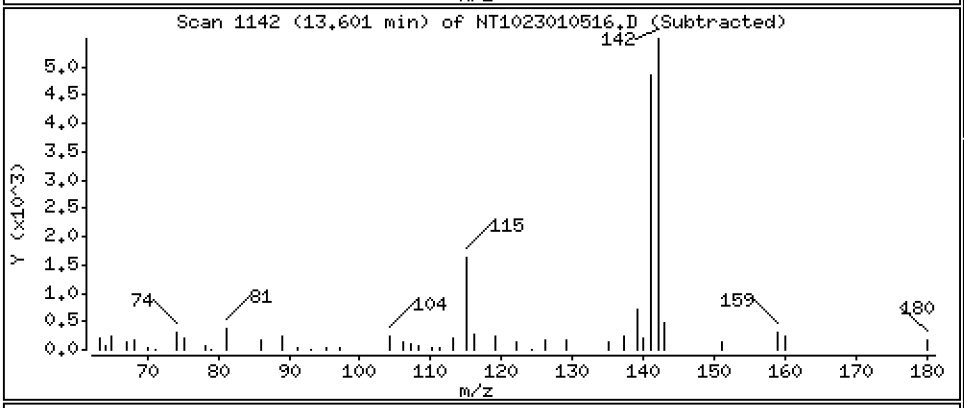
Column diameter: 0.25

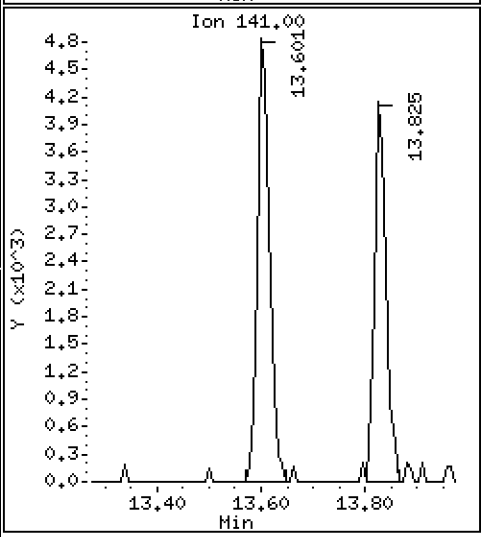
32 2-Methylnaphthalene

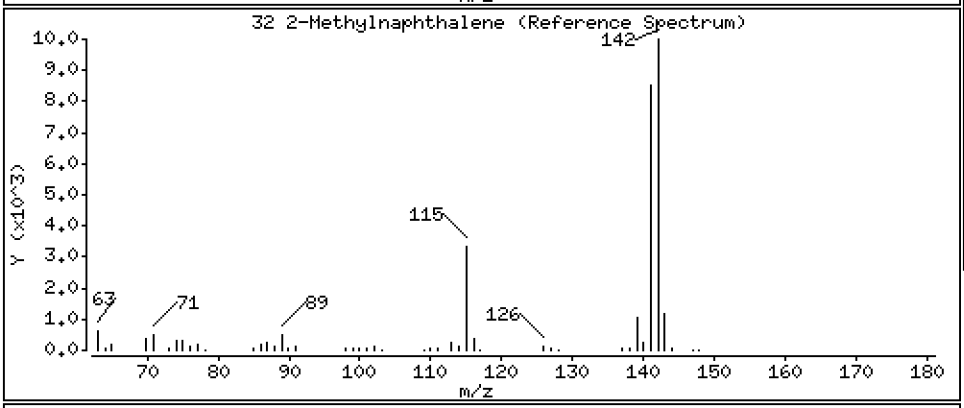
Concentration: 0.1661 ug/mL

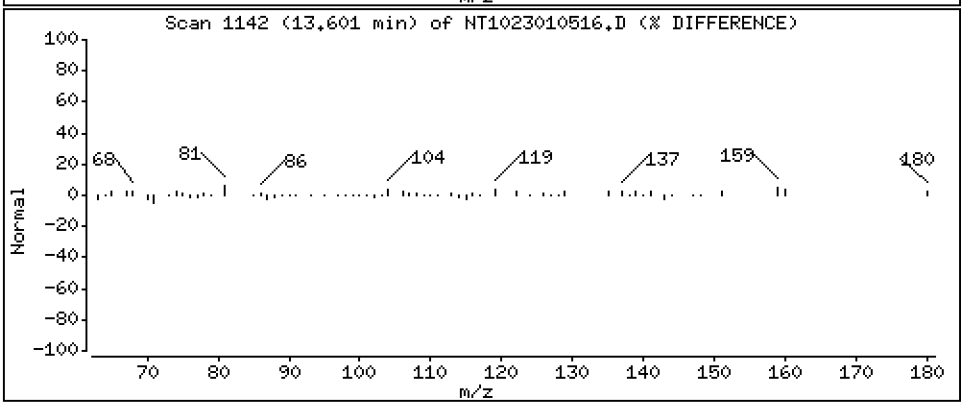












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

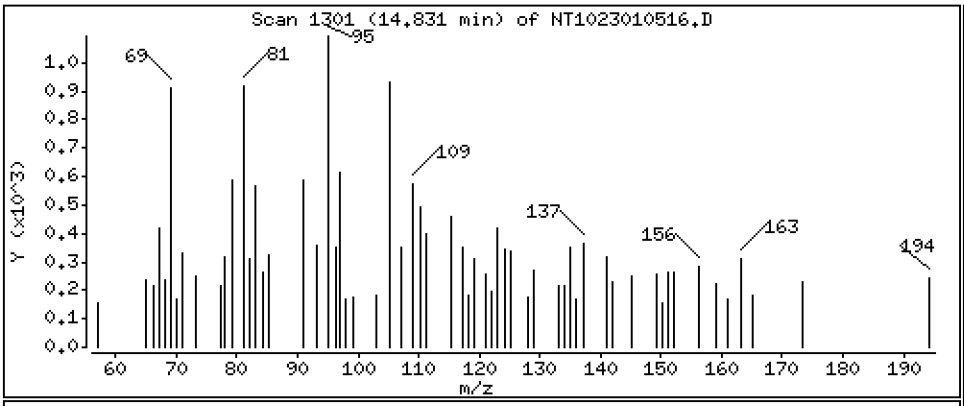
Operator: VTS

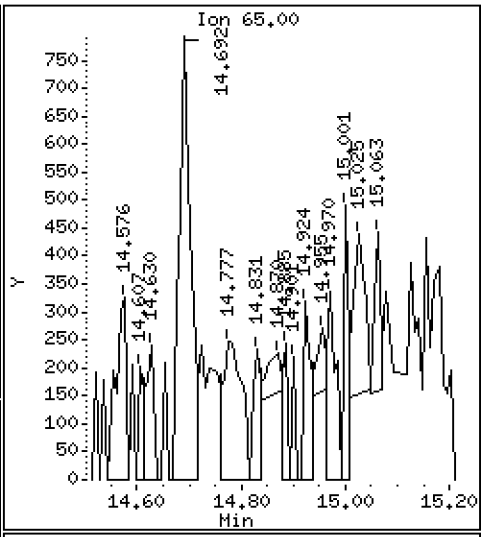
Column phase: ZB-5msi

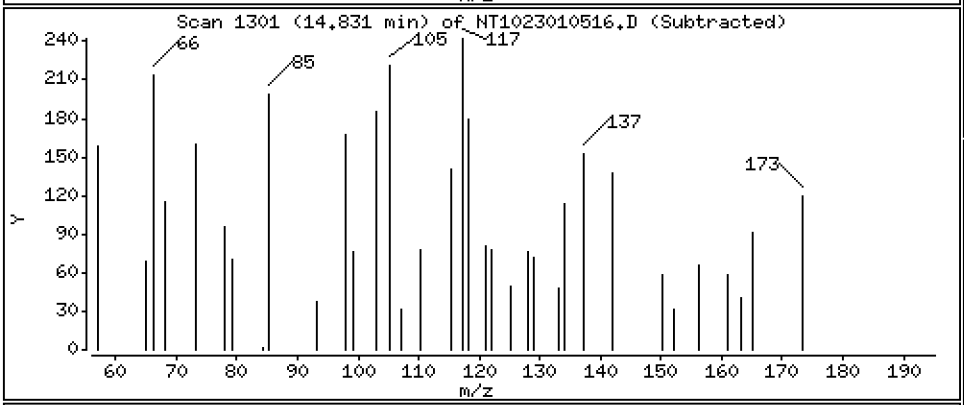
Column diameter: 0.25

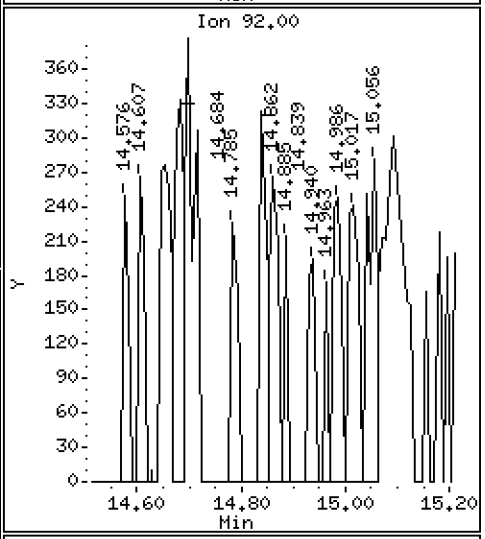
38 2-Nitroaniline

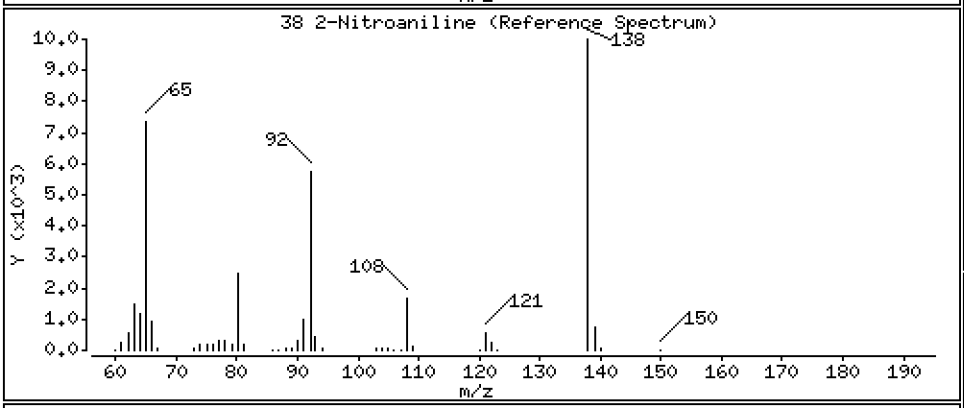
Concentration: 0.04759 ug/mL

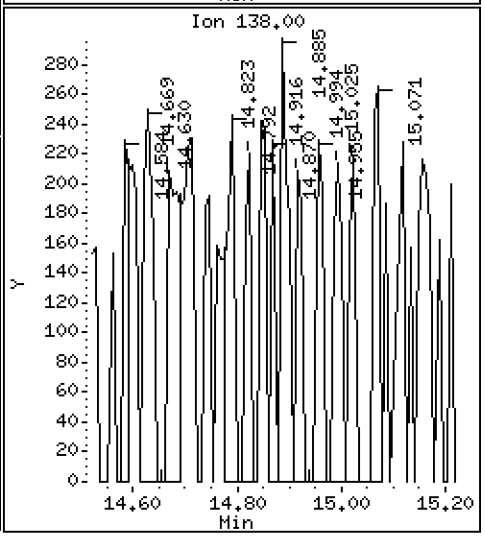


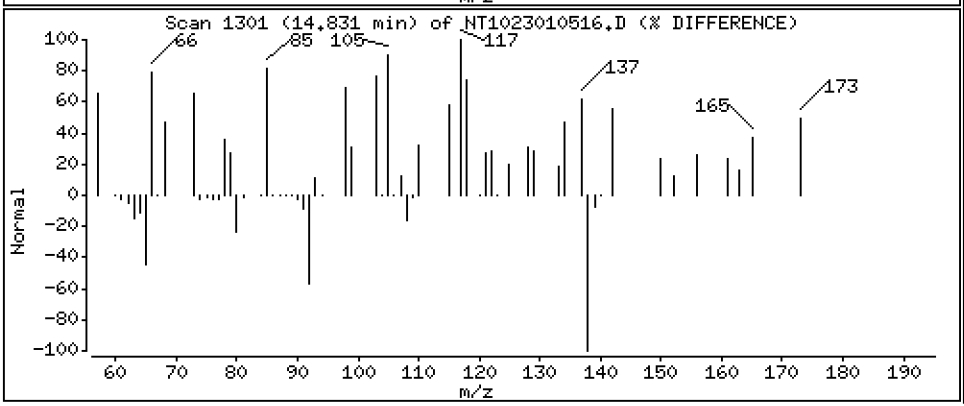












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

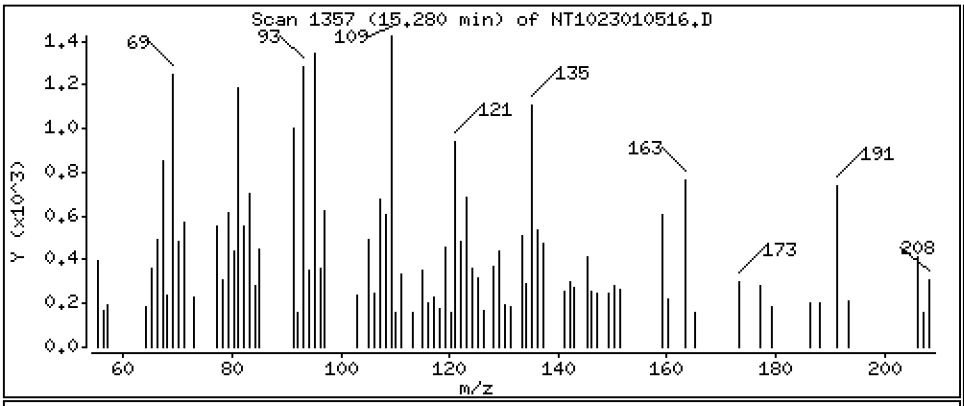
Operator: VTS

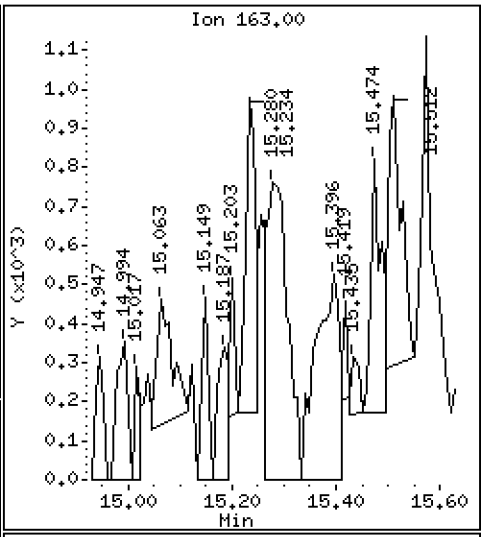
Column phase: ZB-5msi

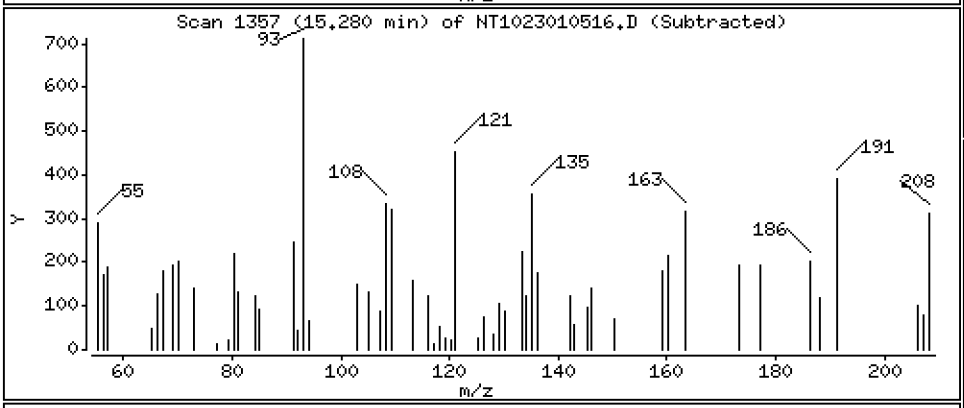
Column diameter: 0.25

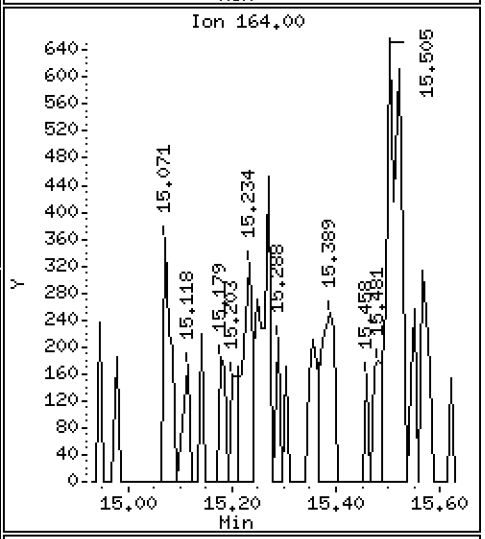
39 Dimethylphthalate

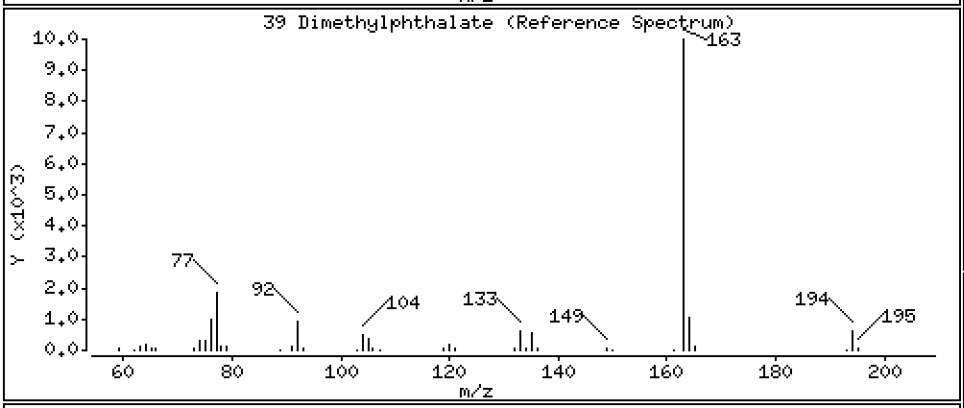
Concentration: 0.05802 ug/mL

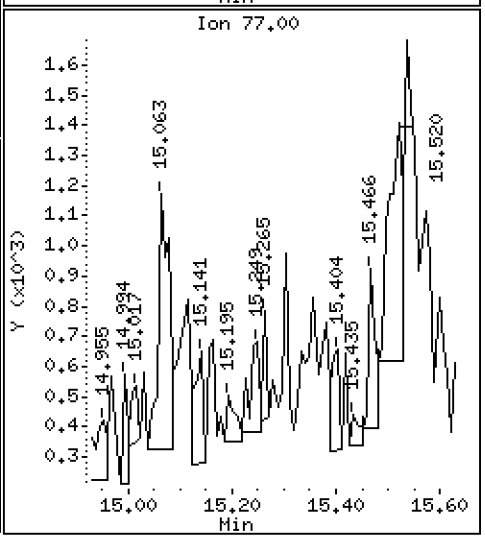


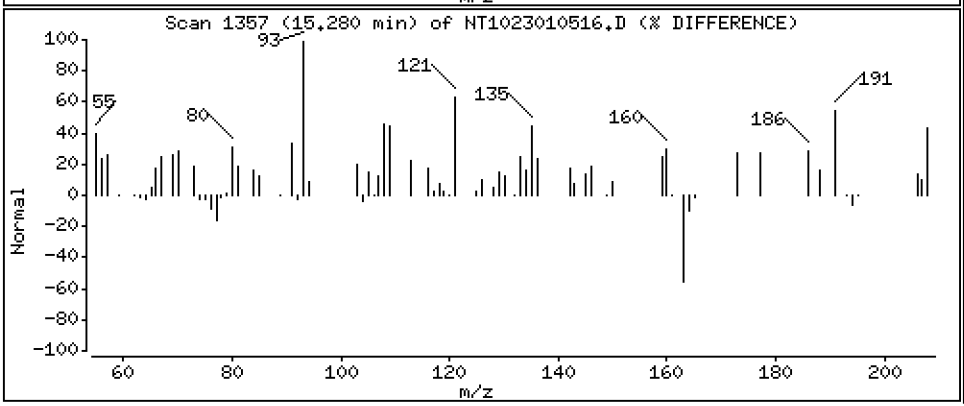












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

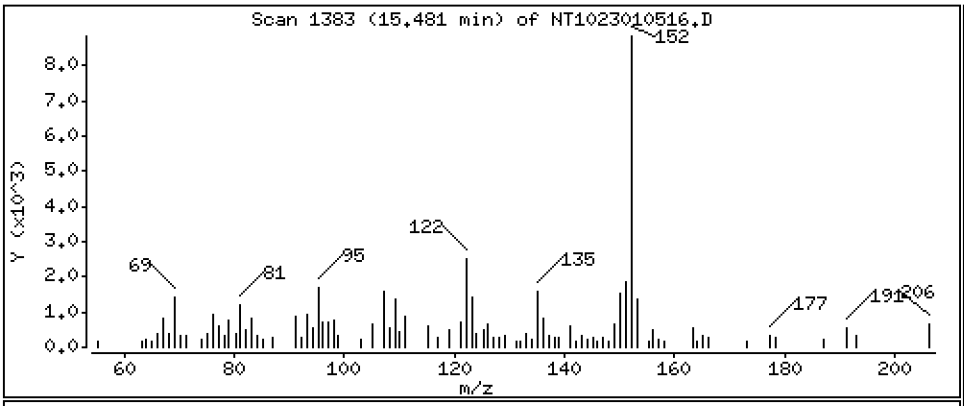
Operator: VTS

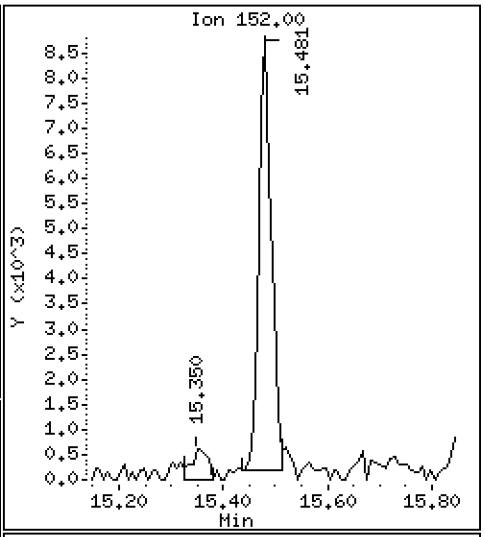
Column phase: ZB-5msi

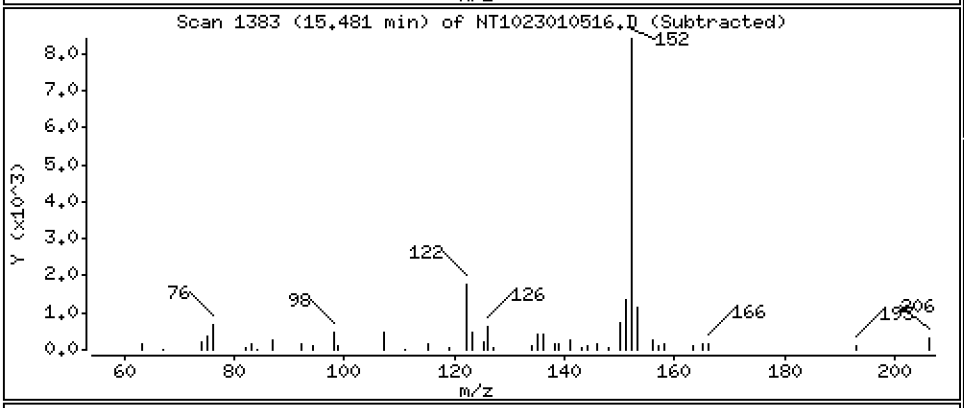
Column diameter: 0.25

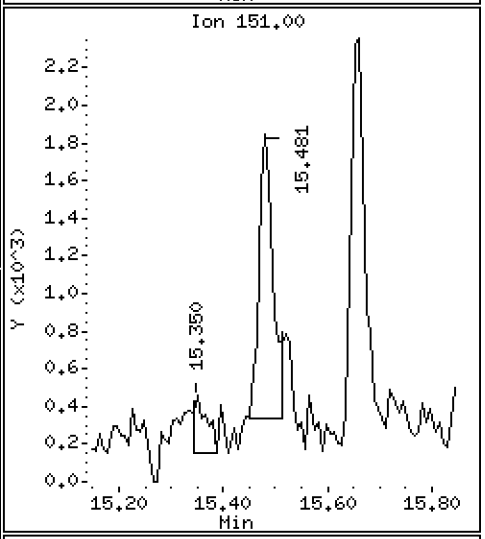
40 Acenaphthylene

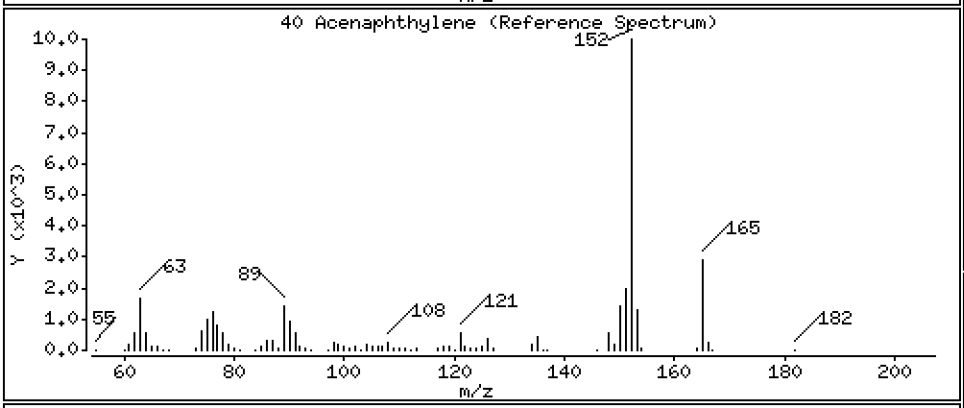
Concentration: 0.2352 ug/mL

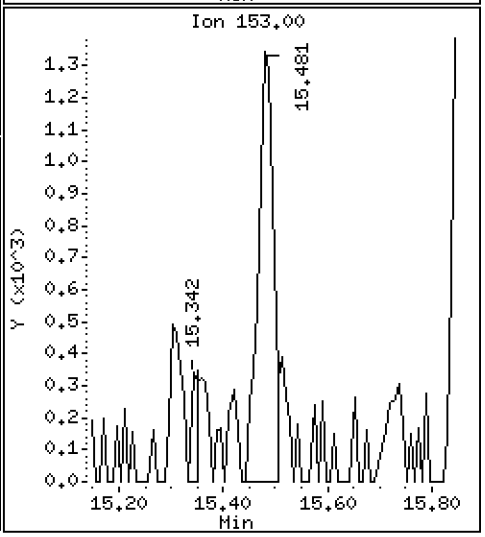


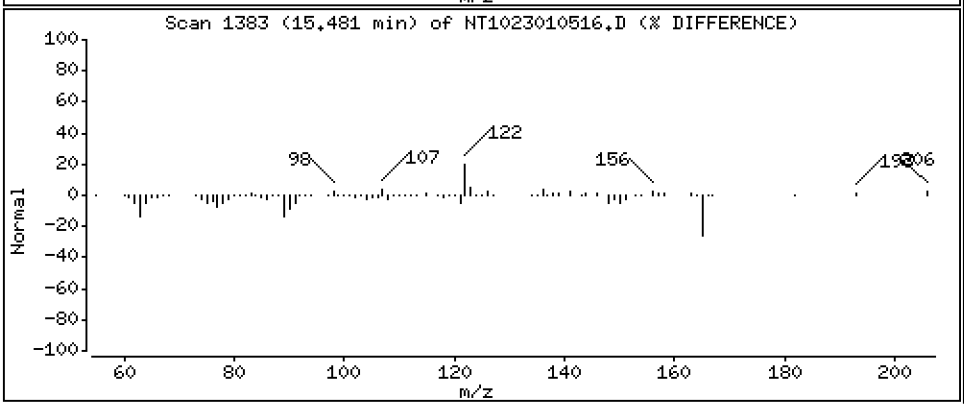












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

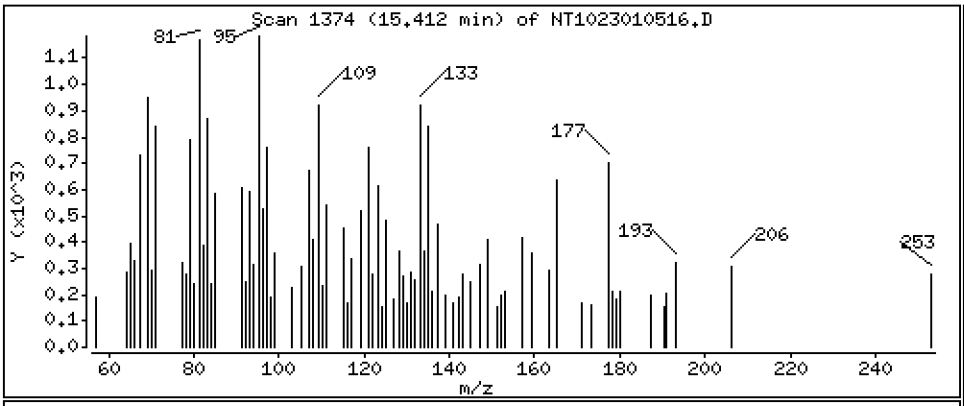
Operator: VTS

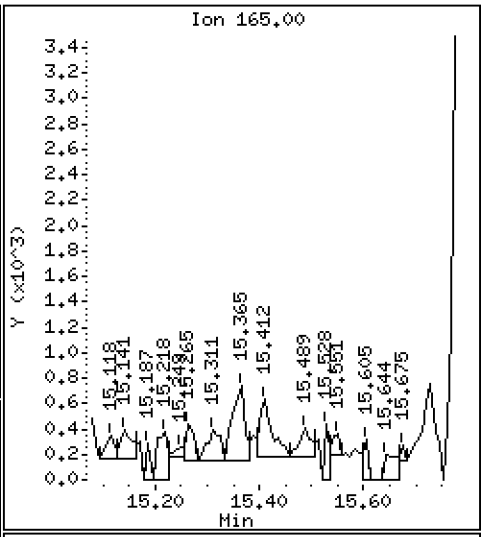
Column phase: ZB-5msi

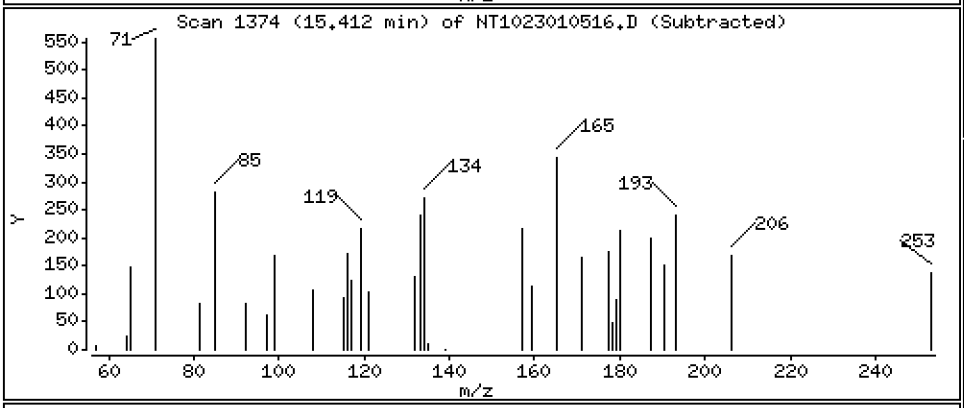
Column diameter: 0.25

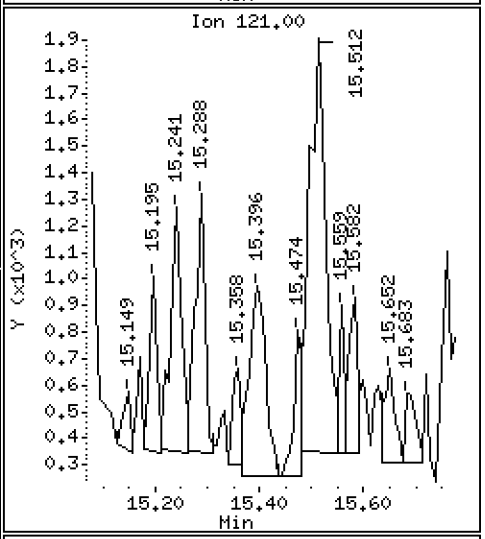
41 2,6-Dinitrotoluene

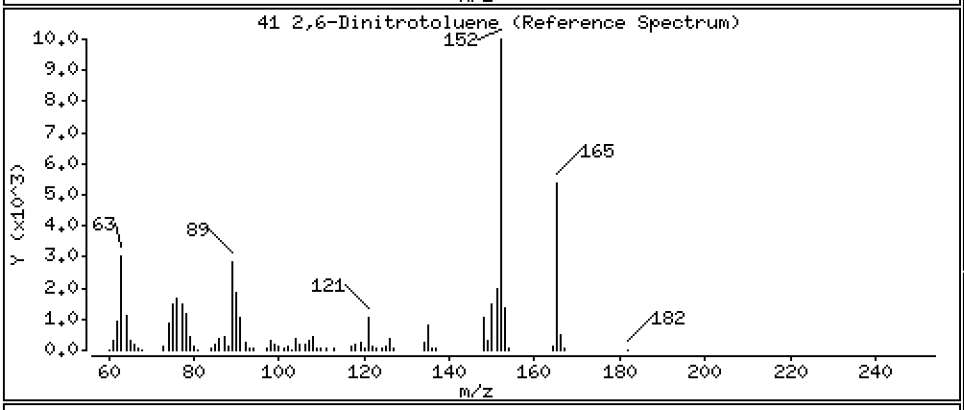
Concentration: 0.08972 ug/mL

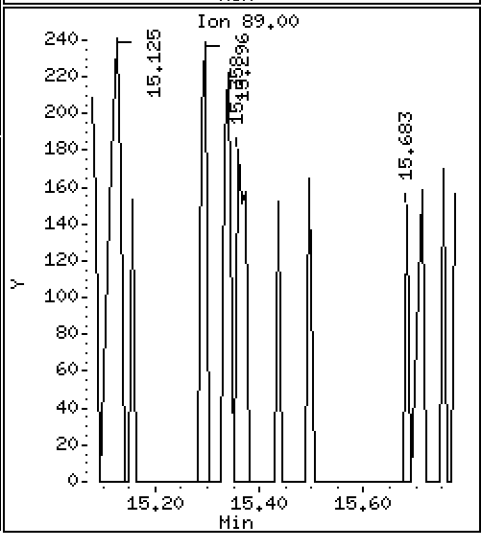


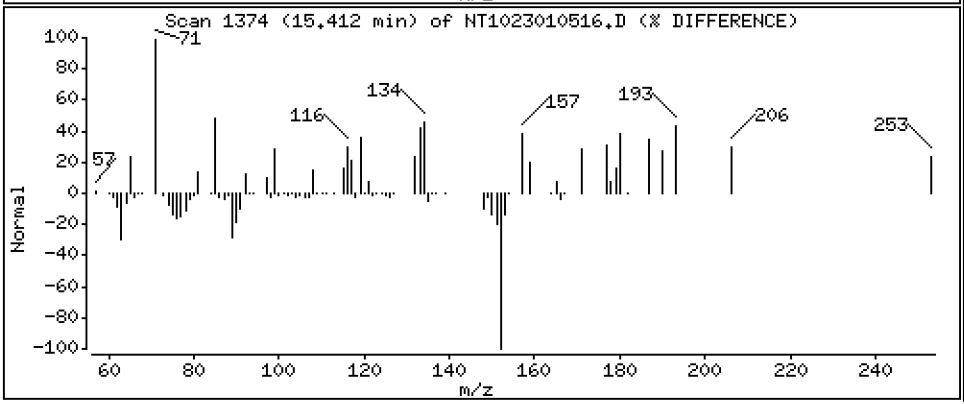












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

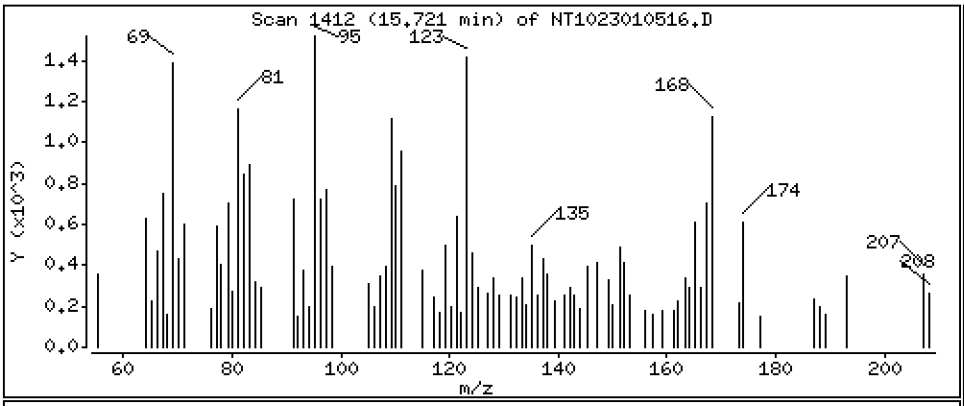
Operator: VTS

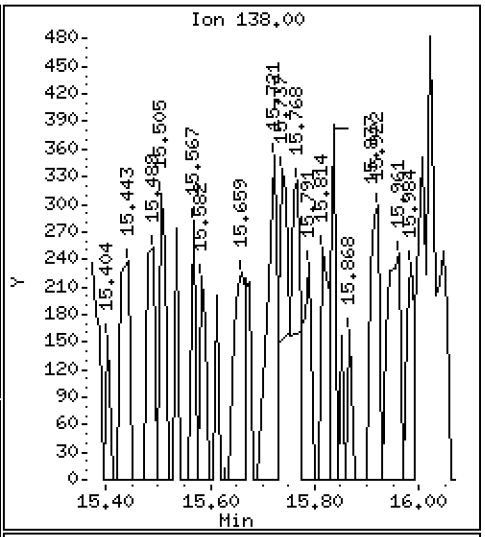
Column phase: ZB-5msi

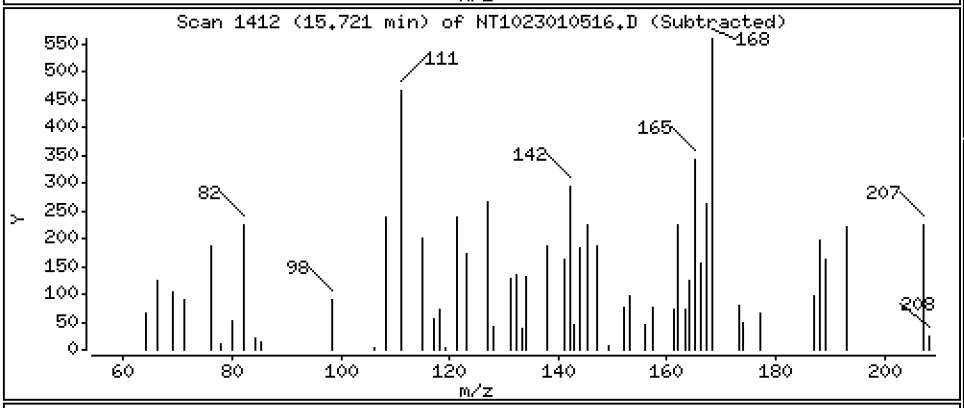
Column diameter: 0.25

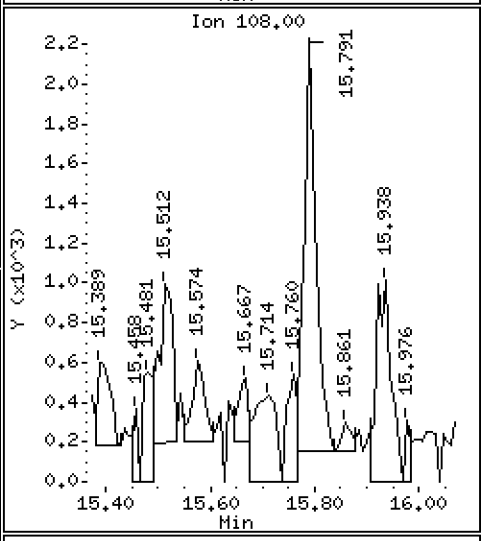
43 3-Nitroaniline

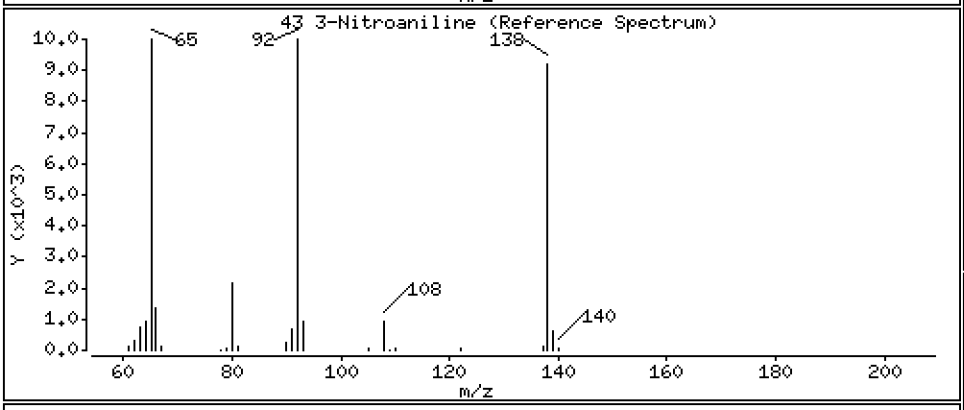
Concentration: 0.09650 ug/mL

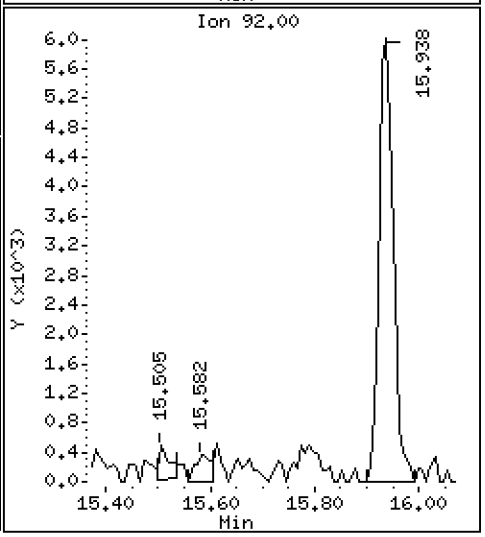


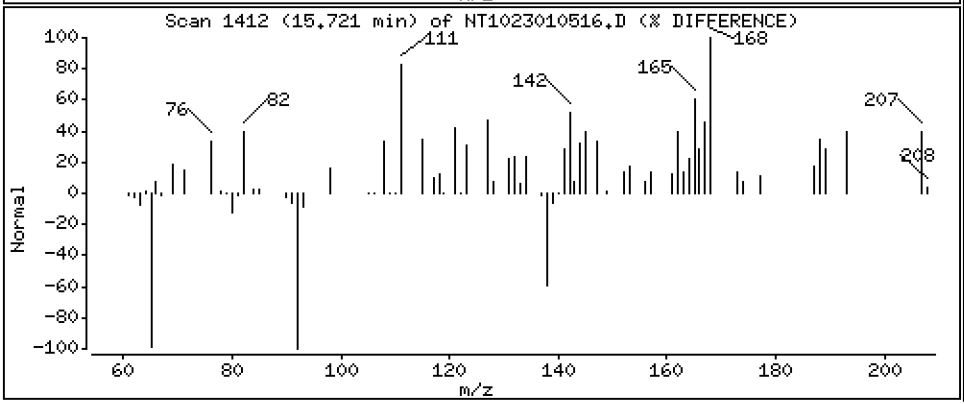












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

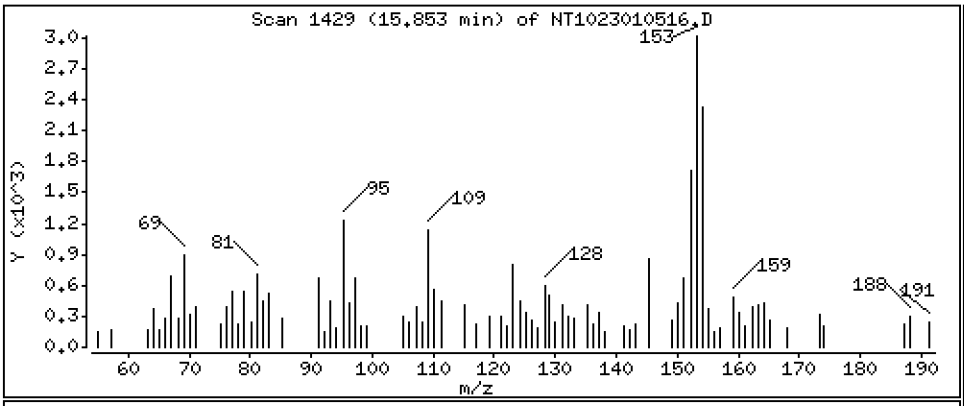
Operator: VTS

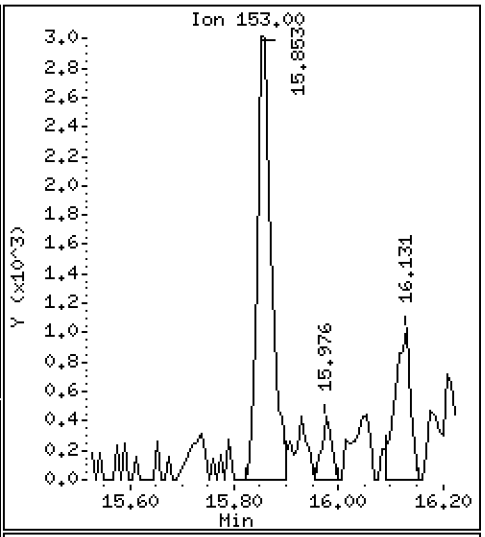
Column phase: ZB-5msi

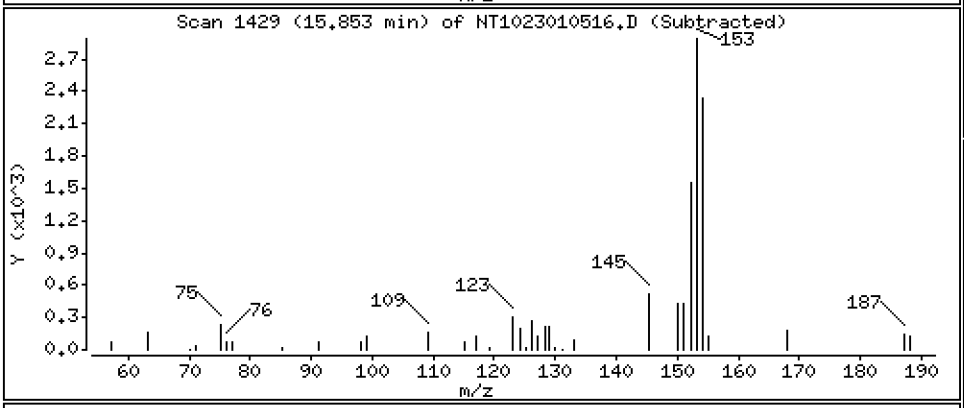
Column diameter: 0.25

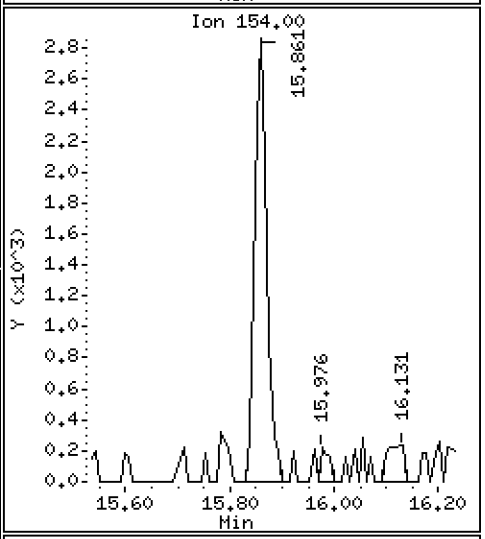
44 Acenaphthene

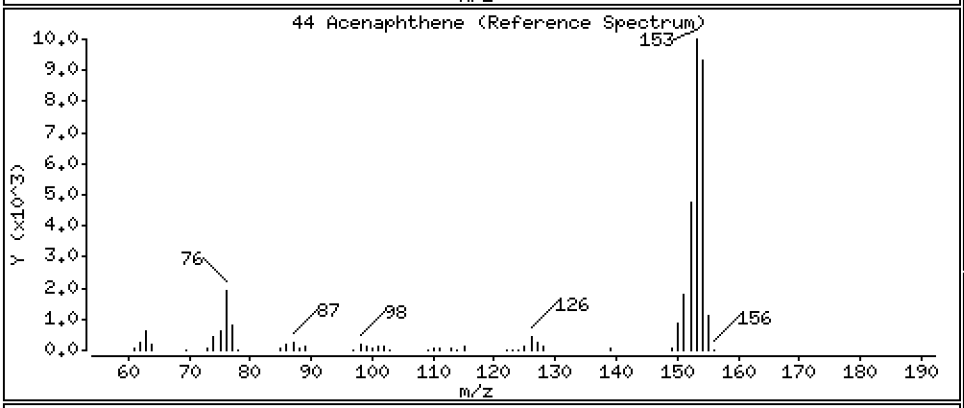
Concentration: 0.1696 ug/mL

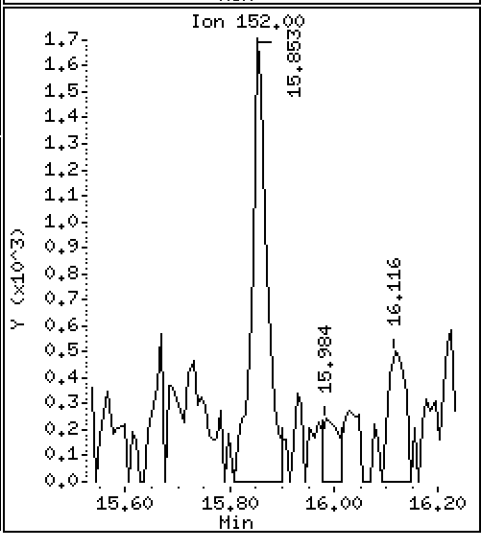


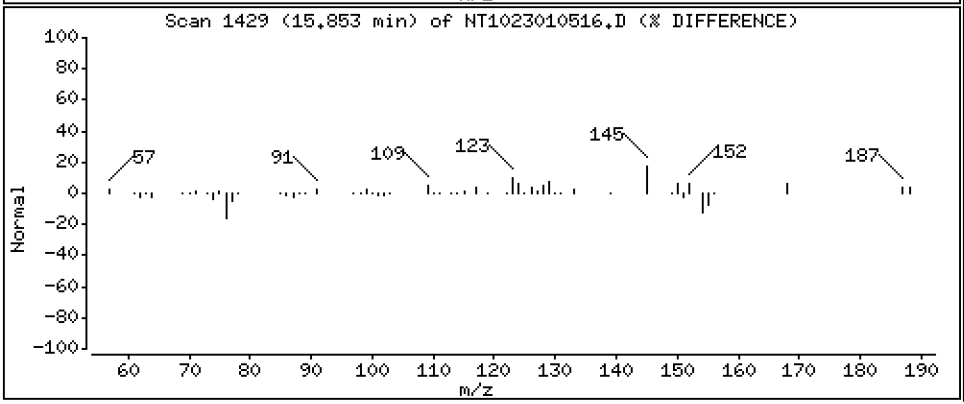












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

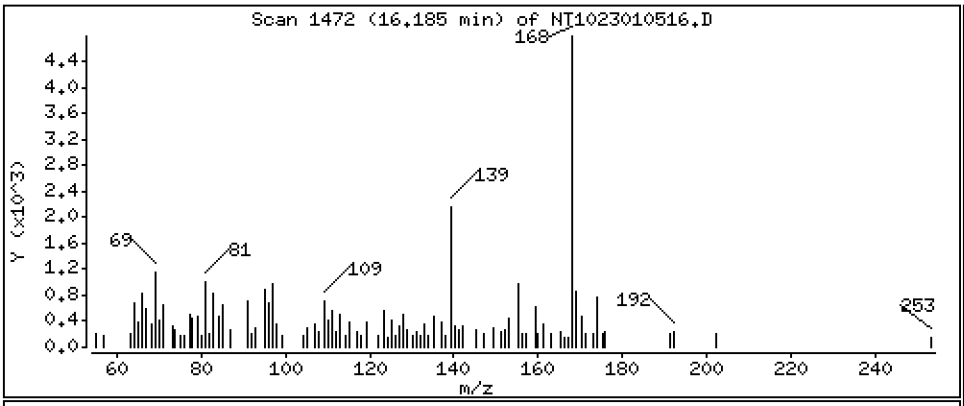
Operator: VTS

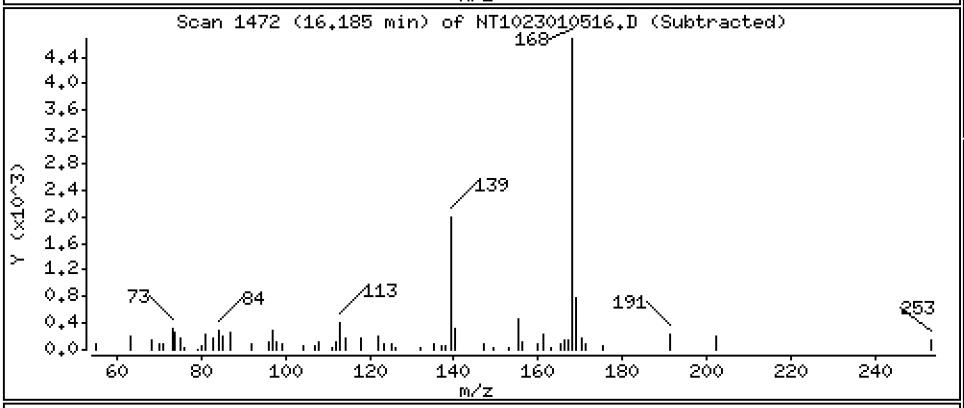
Column phase: ZB-5msi

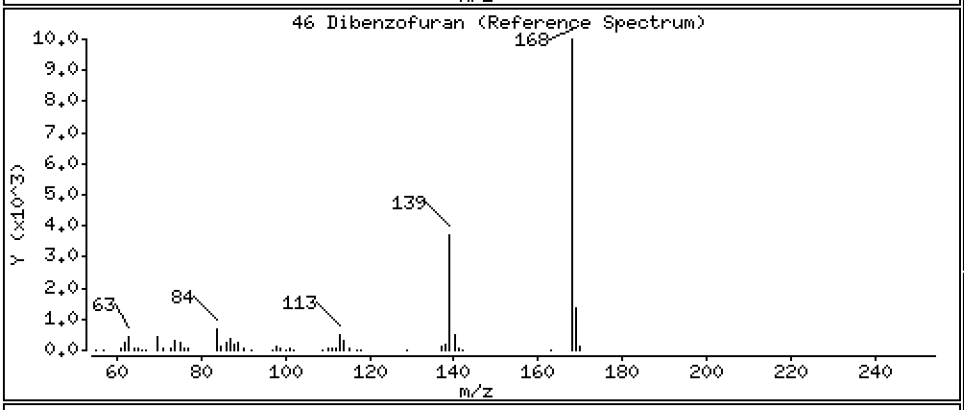
Column diameter: 0.25

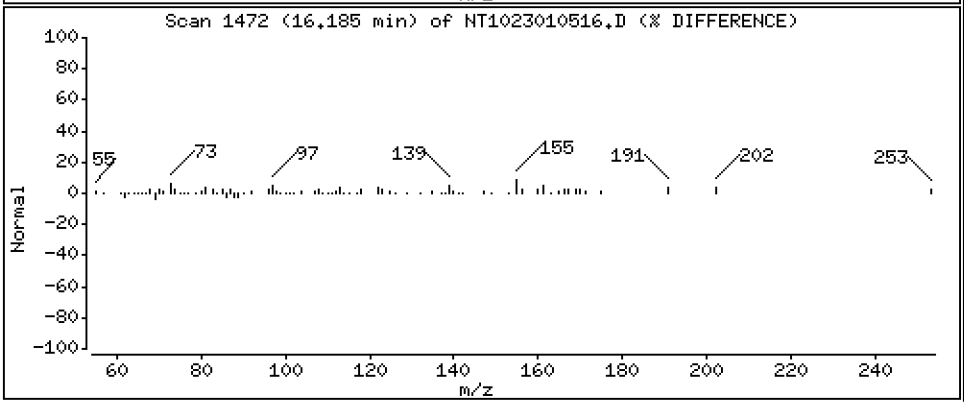
46 Dibenzofuran

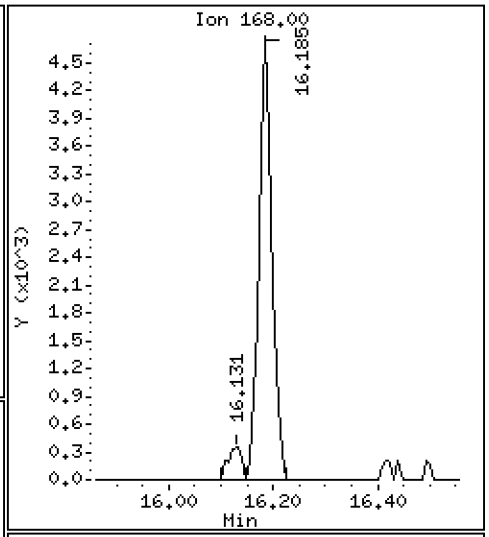
Concentration: 0.1647 ug/mL

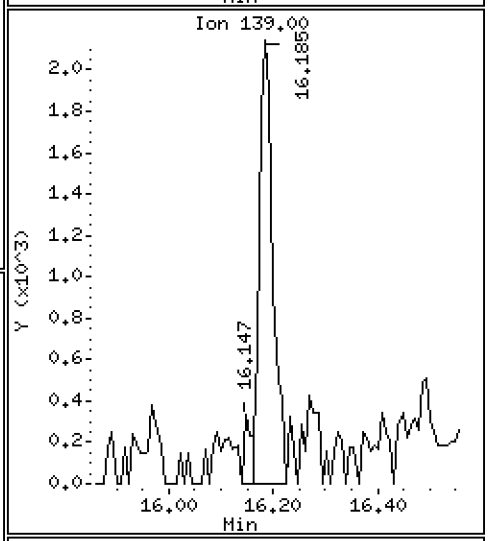


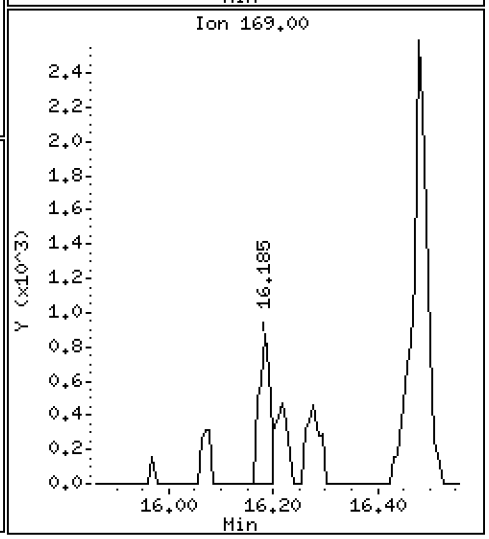












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

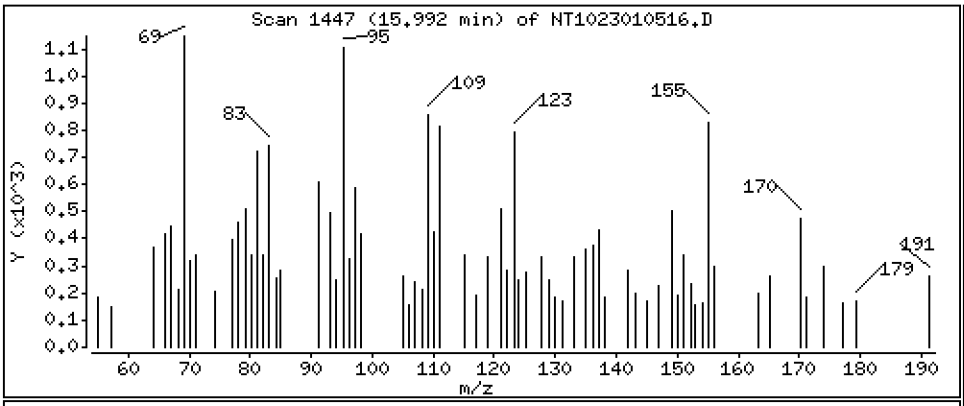
Operator: VTS

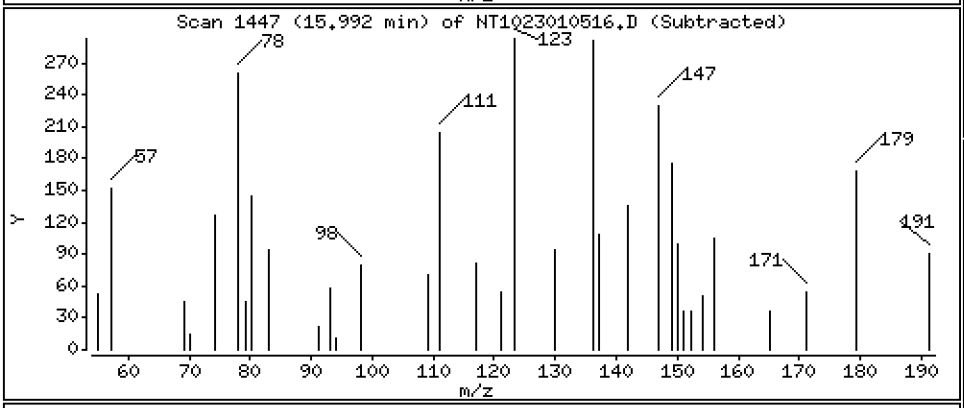
Column phase: ZB-5msi

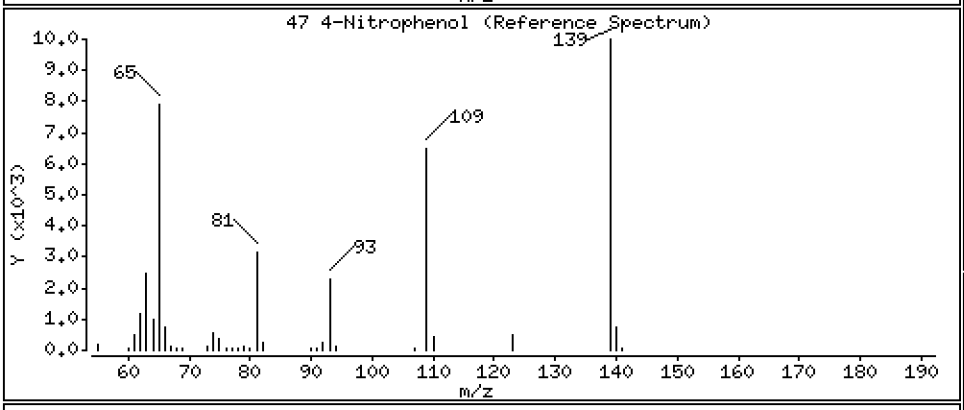
Column diameter: 0.25

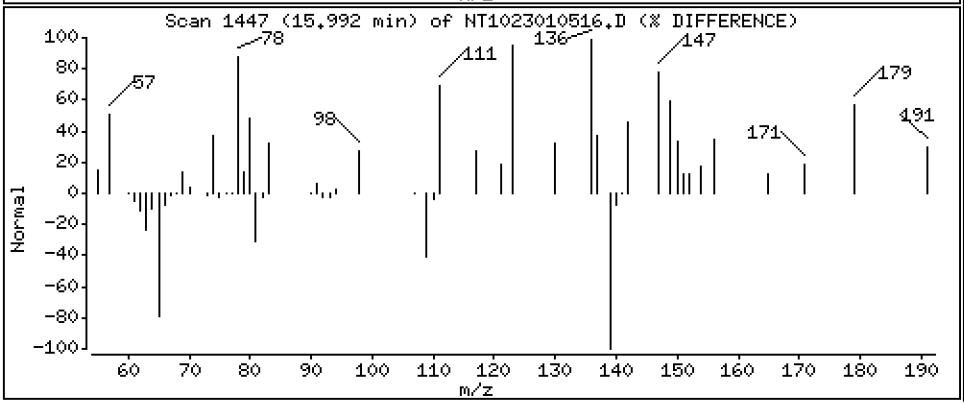
47 4-Nitrophenol

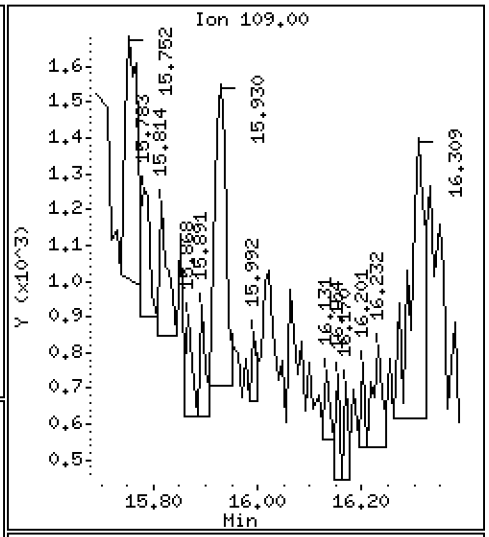
Concentration: 0.03046 ug/mL

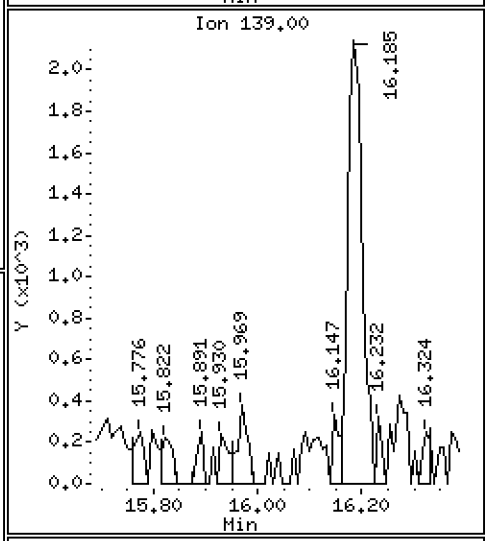


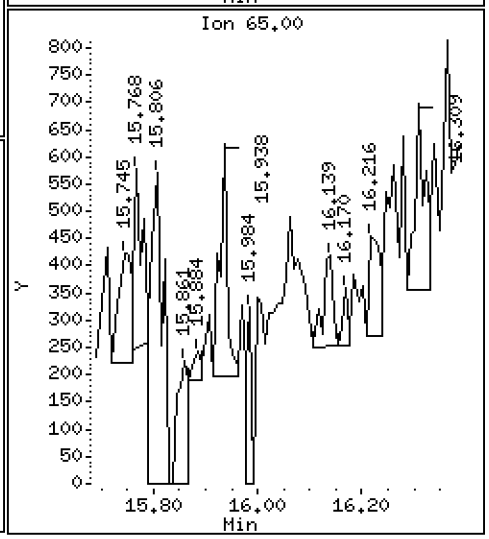












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

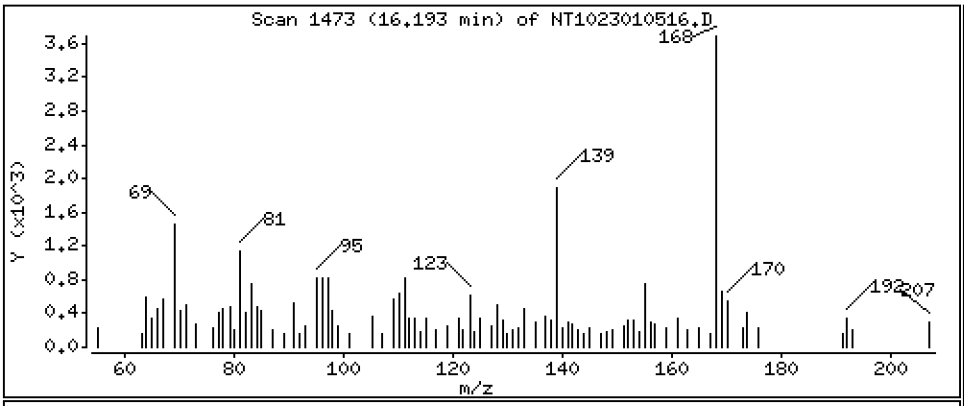
Operator: VTS

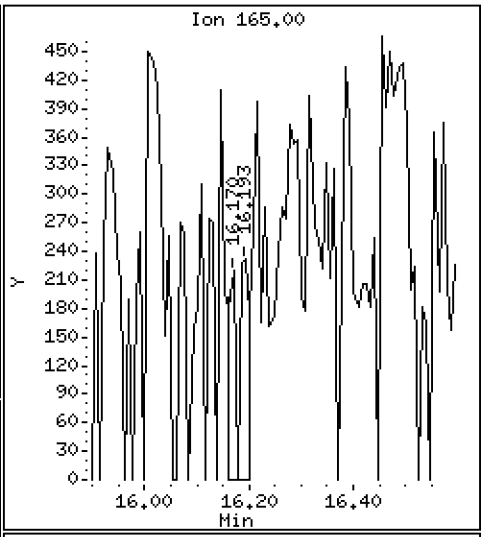
Column phase: ZB-5msi

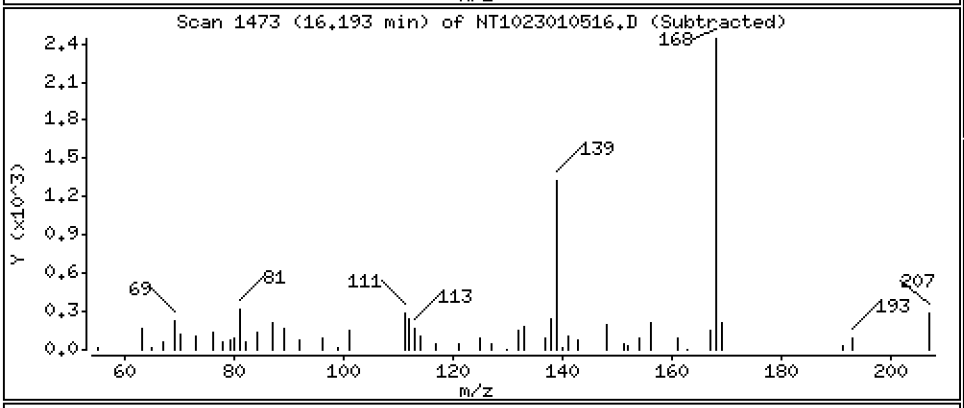
Column diameter: 0.25

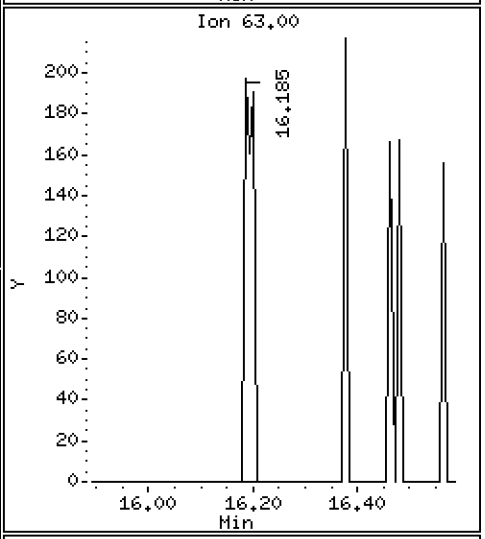
48 2,4-Dinitrotoluene

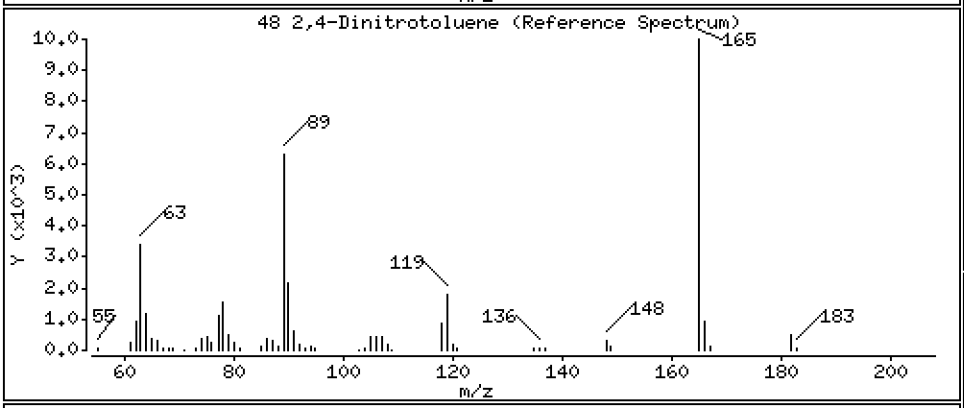
Concentration: 0.02530 ug/mL

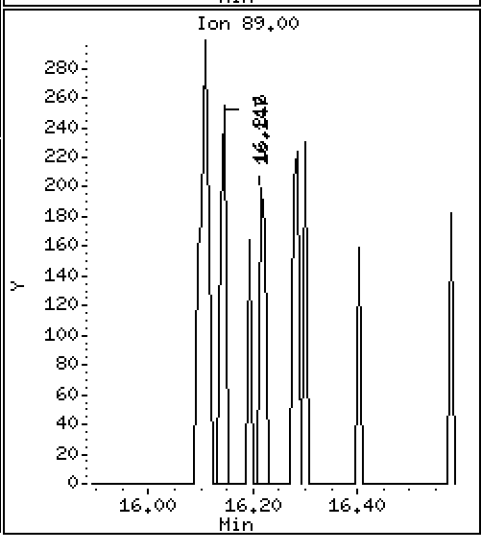


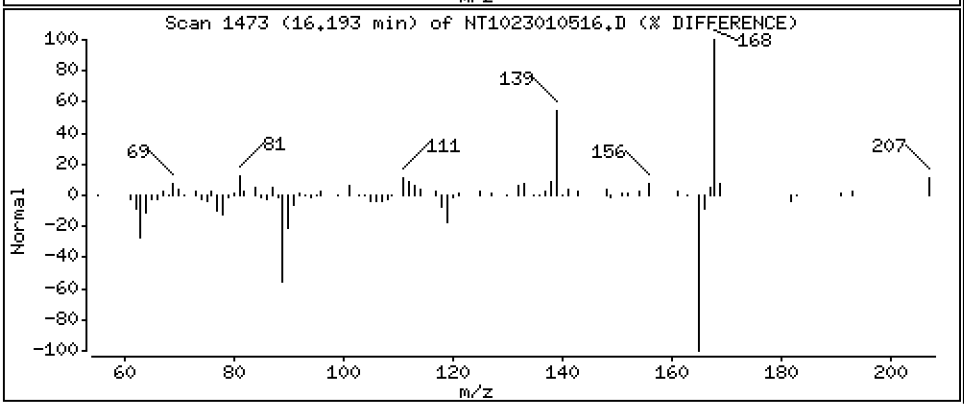












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

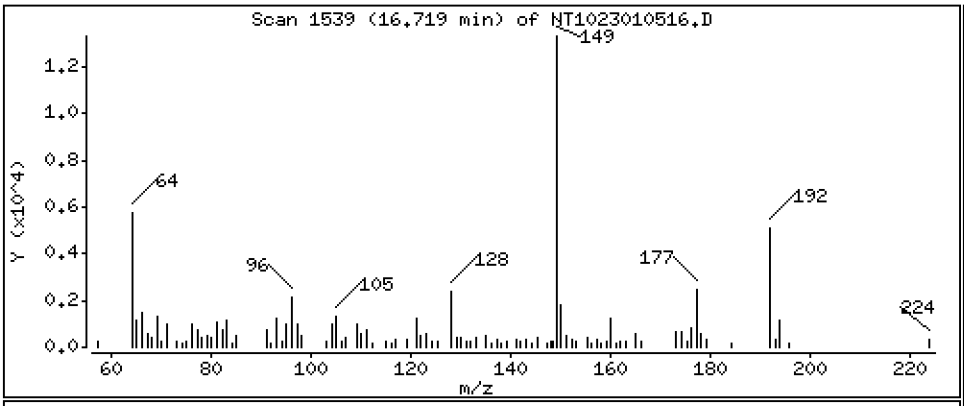
Operator: VTS

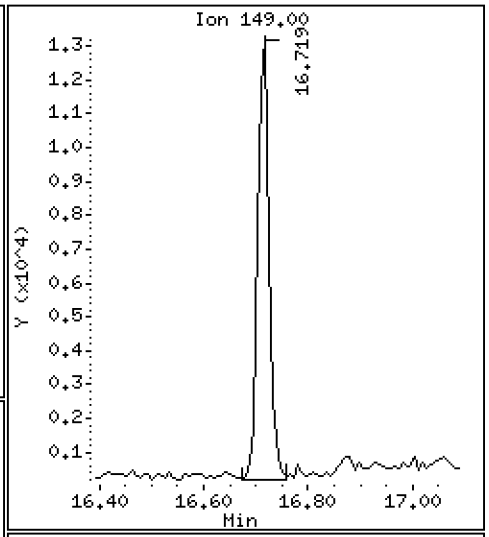
Column phase: ZB-5msi

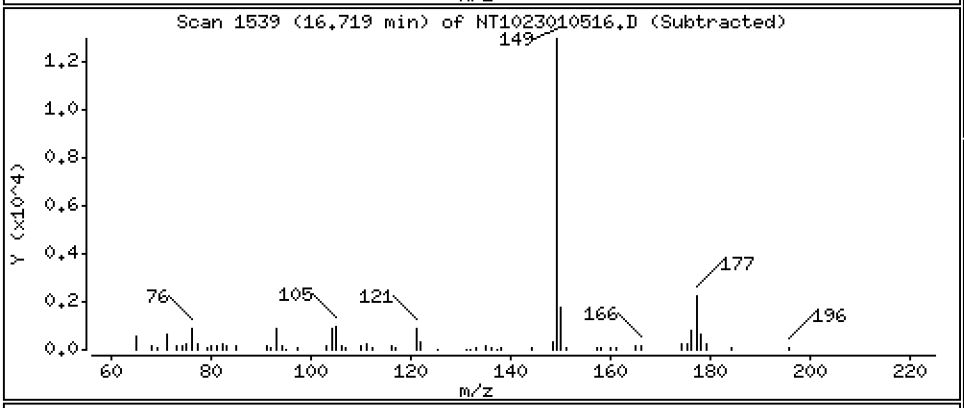
Column diameter: 0.25

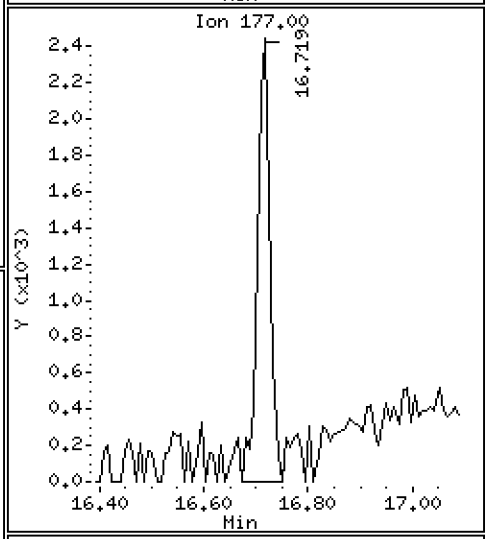
50 Diethylphthalate

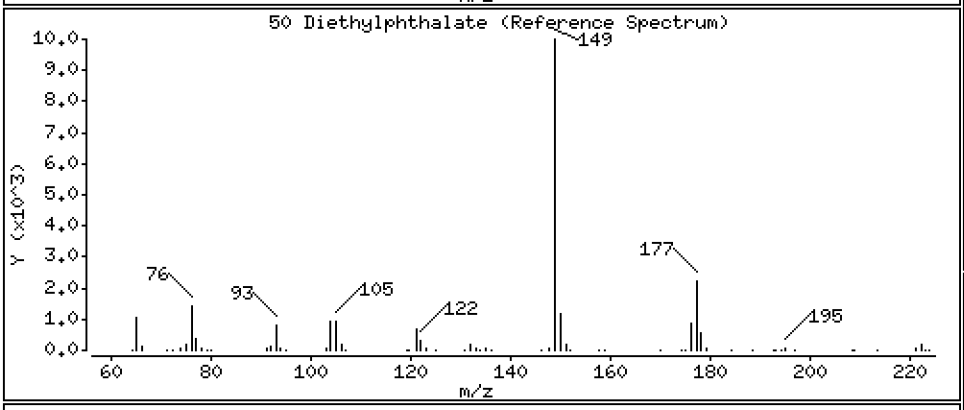
Concentration: 0.5133 ug/mL

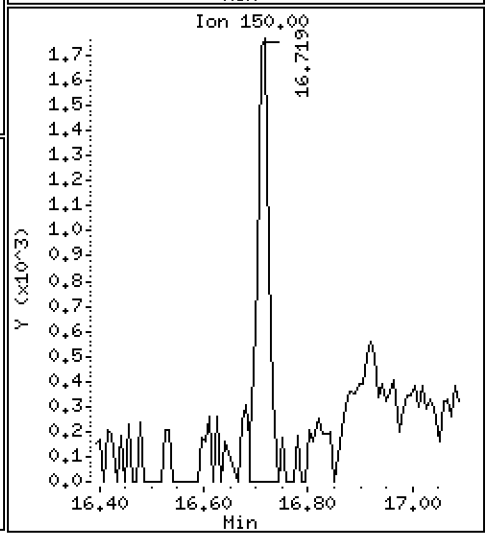


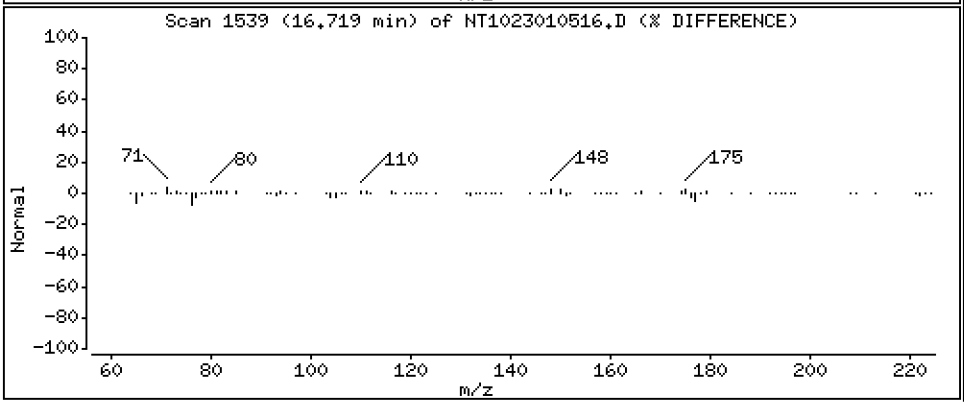












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

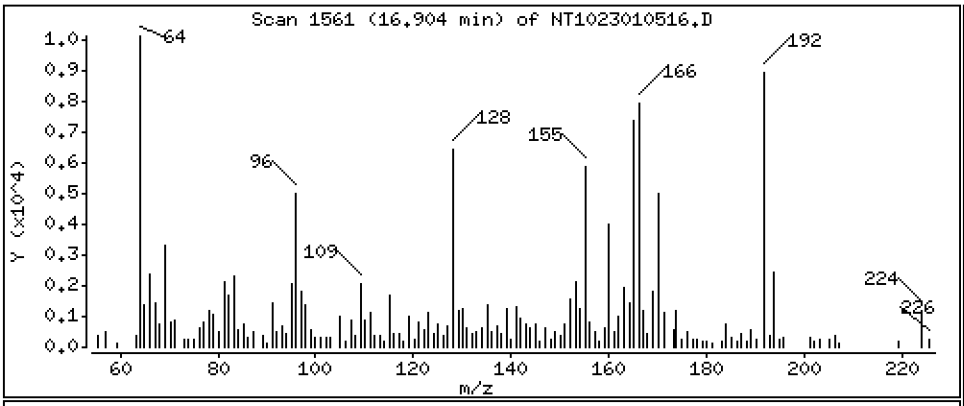
Operator: VTS

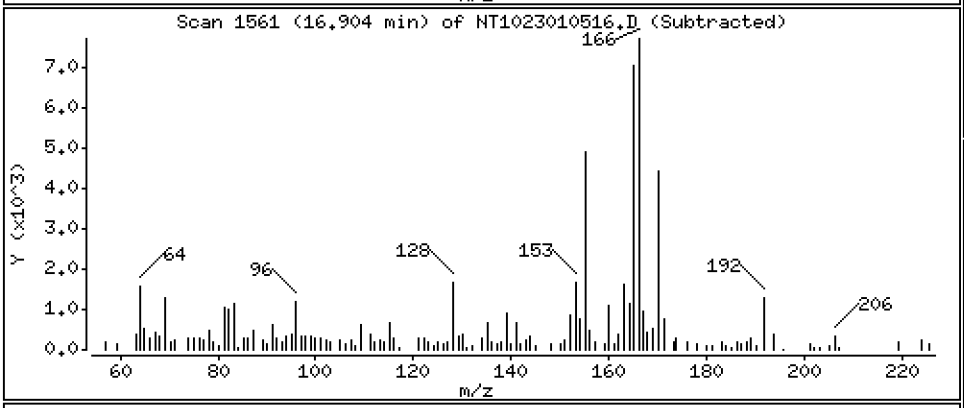
Column phase: ZB-5msi

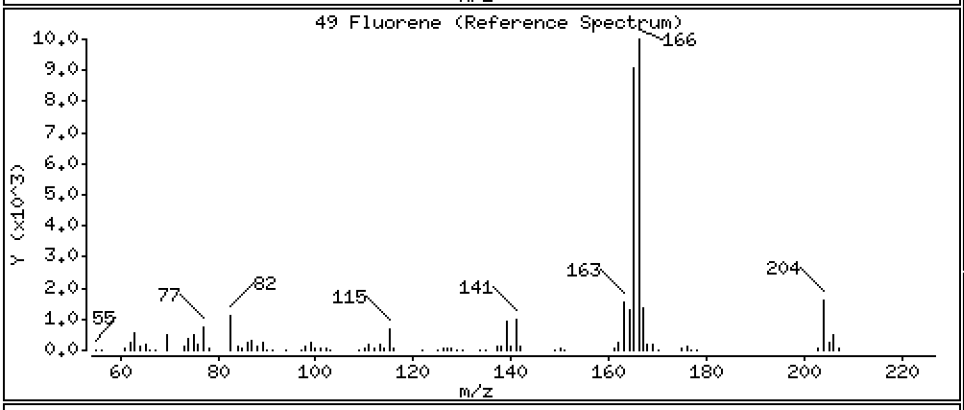
Column diameter: 0.25

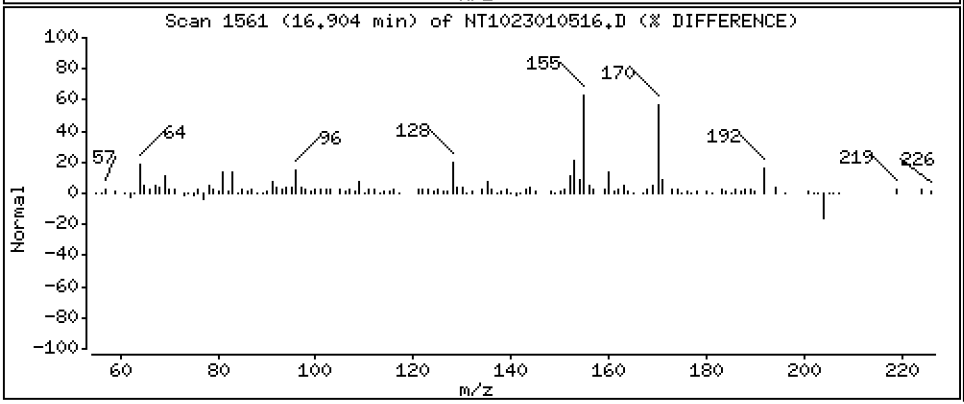
49 Fluorene

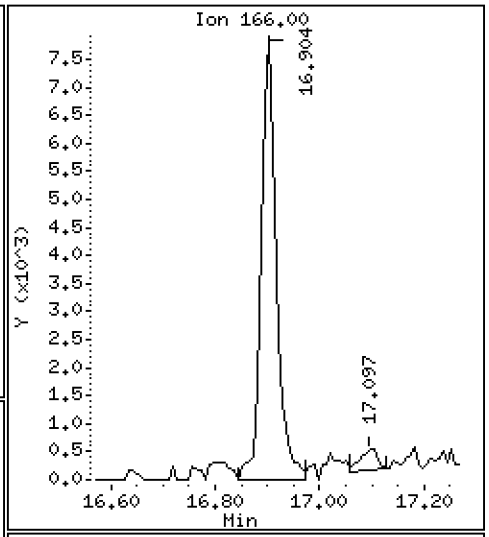
Concentration: 0.2282 ug/mL

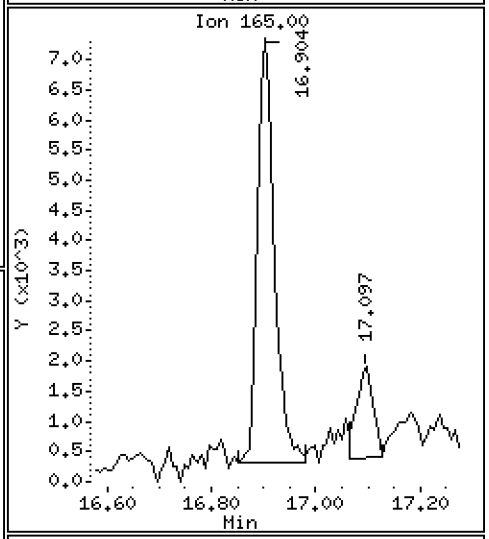


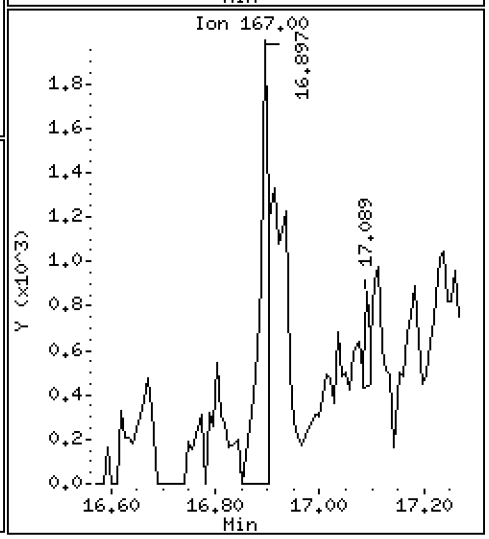












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

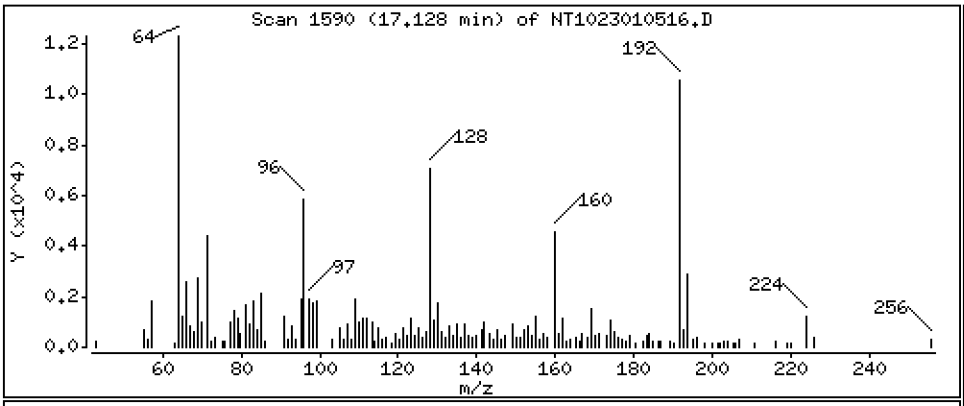
Operator: VTS

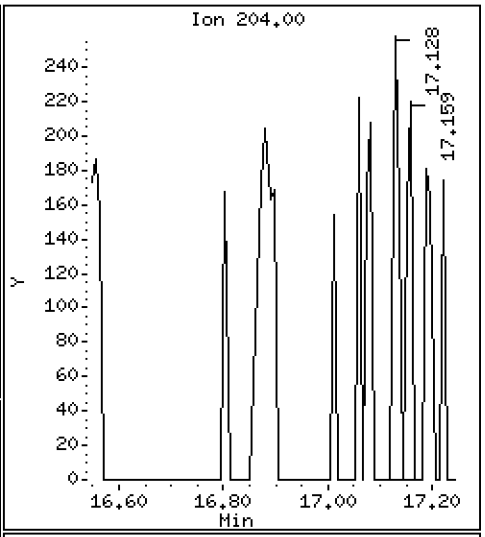
Column phase: ZB-5msi

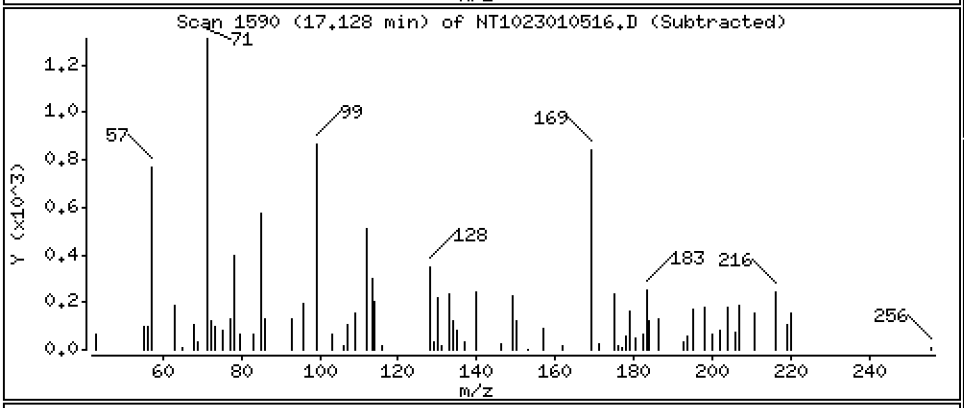
Column diameter: 0.25

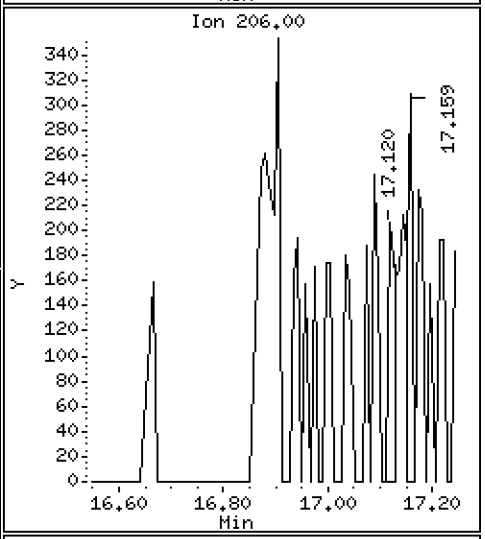
51 4-Chlorophenyl-phenylether

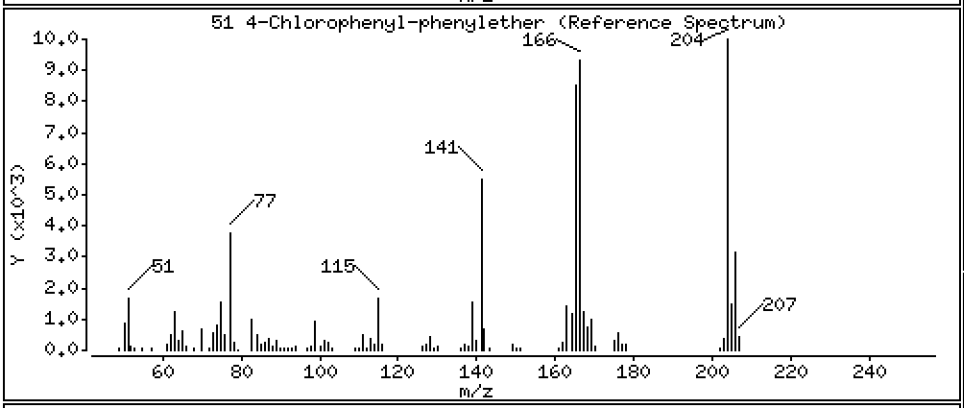
Concentration: 0.007990 ug/mL

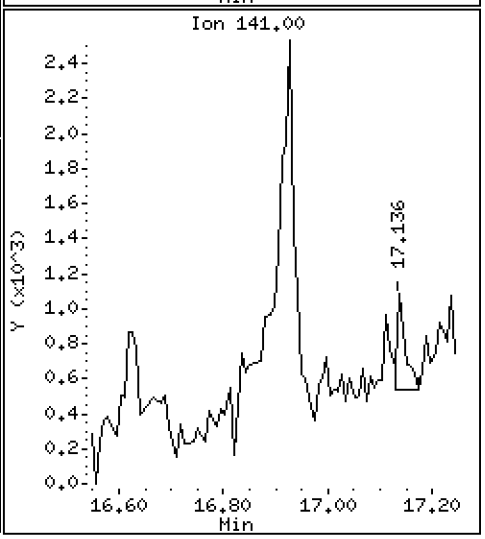


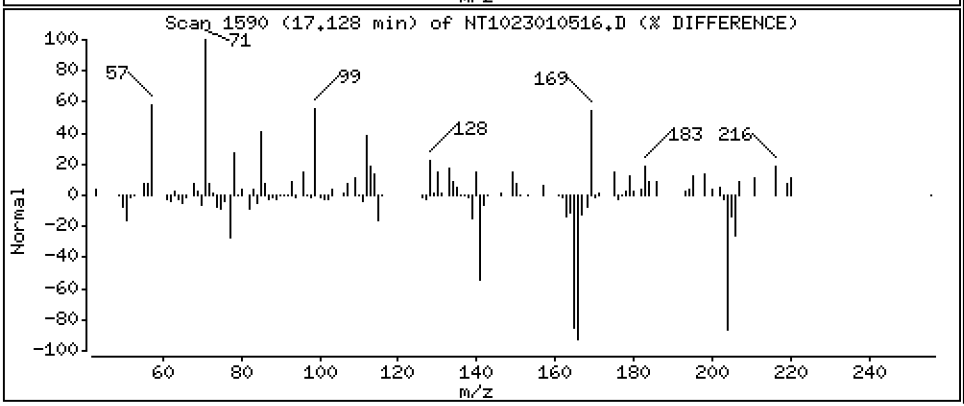












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

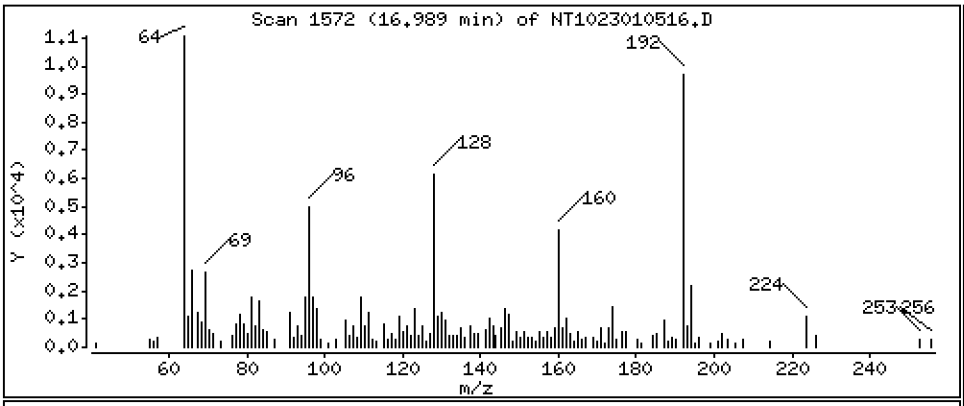
Operator: VTS

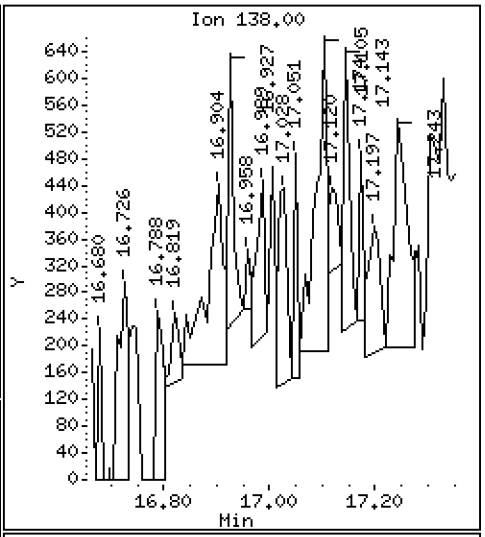
Column phase: ZB-5msi

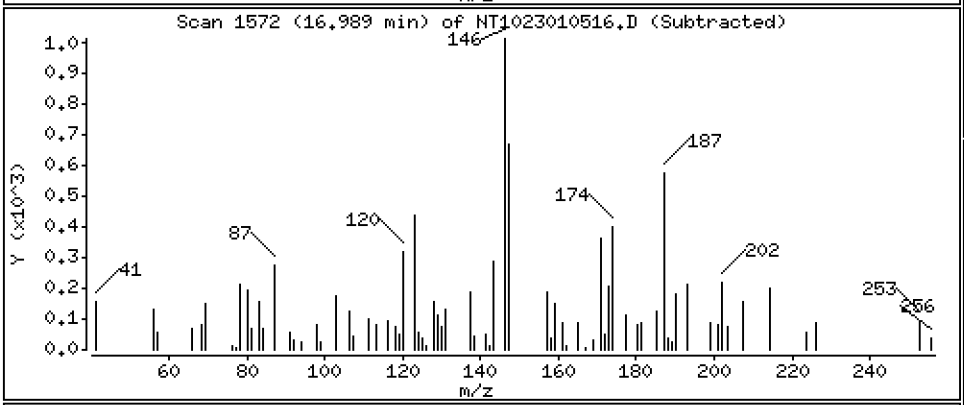
Column diameter: 0.25

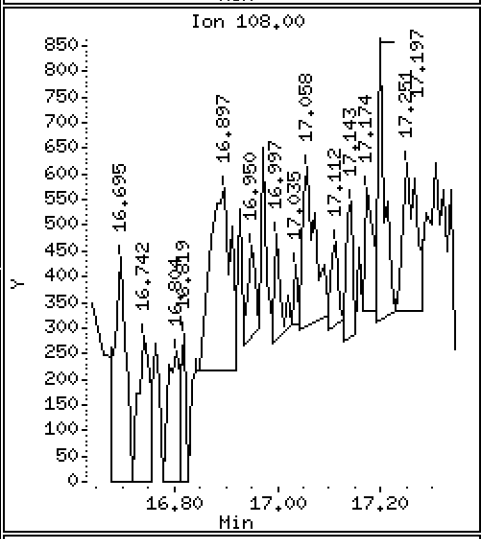
52 4-Nitroaniline

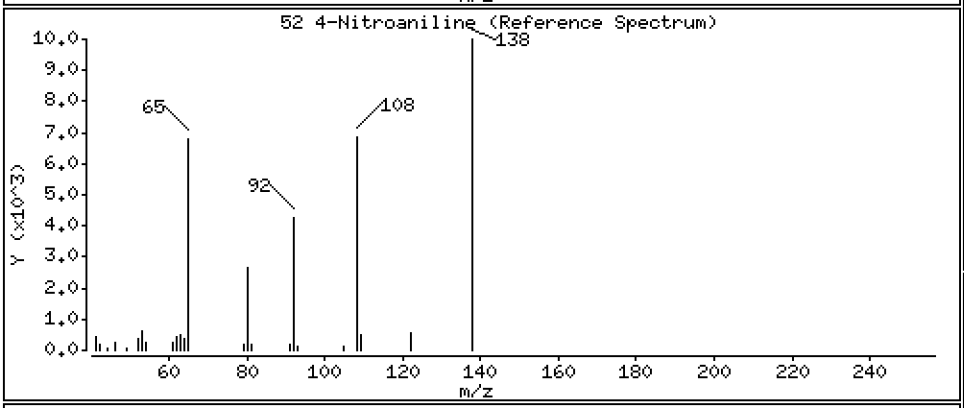
Concentration: 0.01731 ug/mL

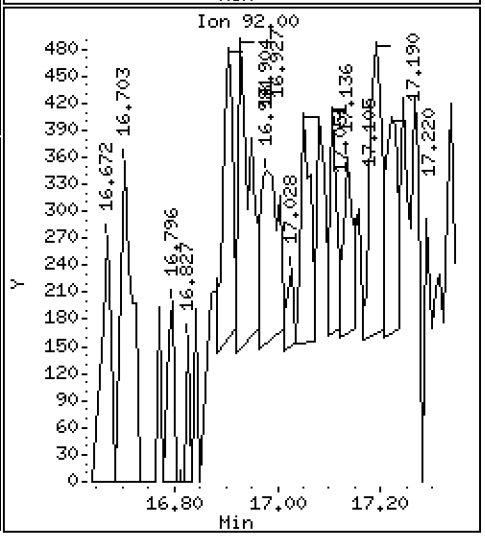


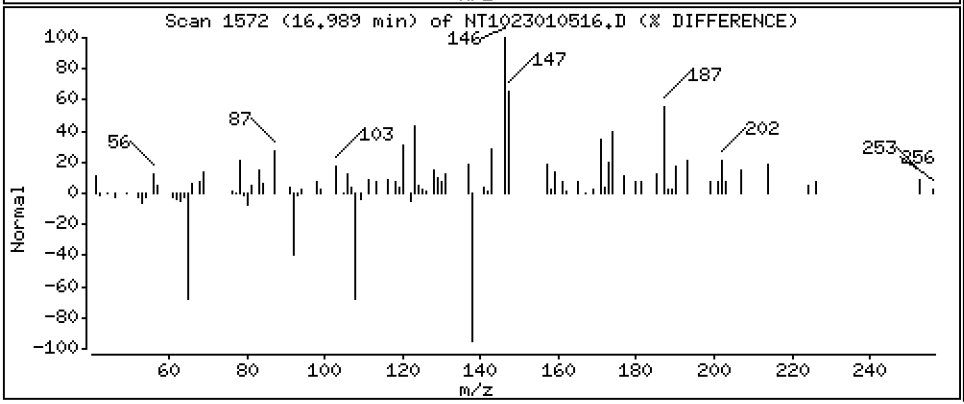












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

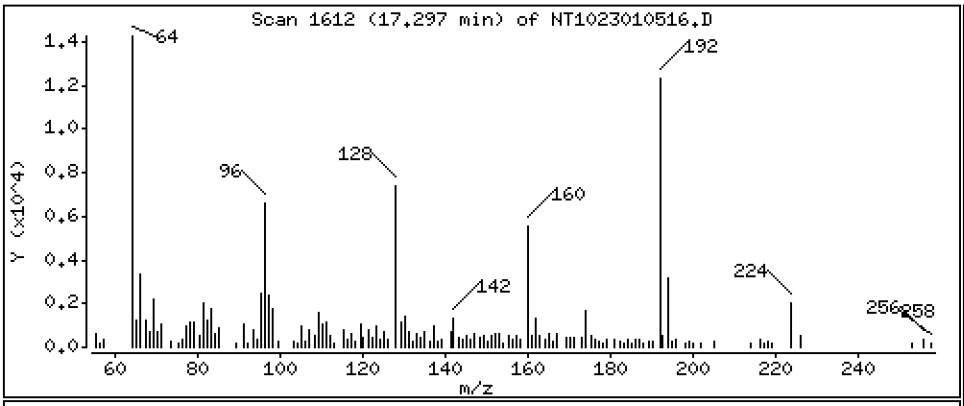
Operator: VTS

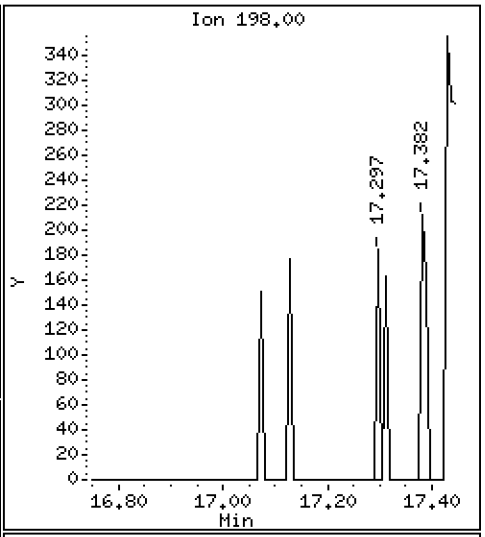
Column phase: ZB-5msi

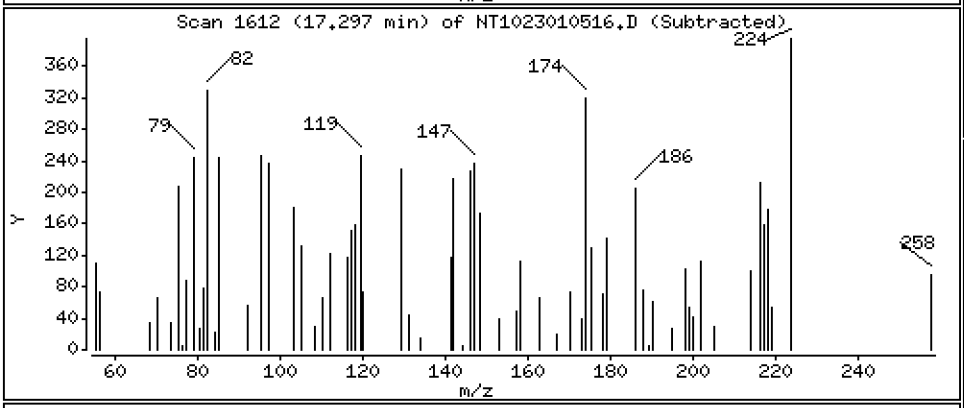
Column diameter: 0.25

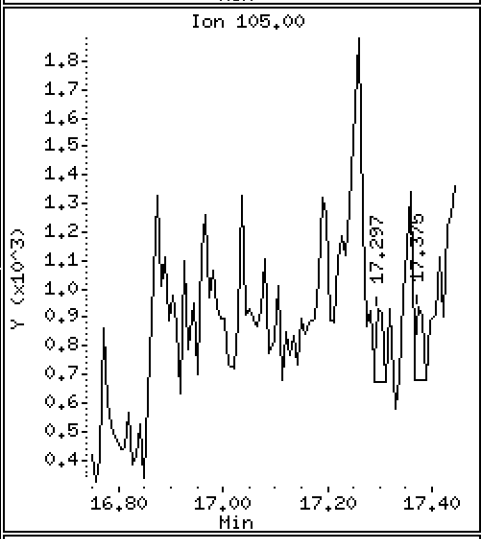
53 4,6-Dinitro-2-methylphenol

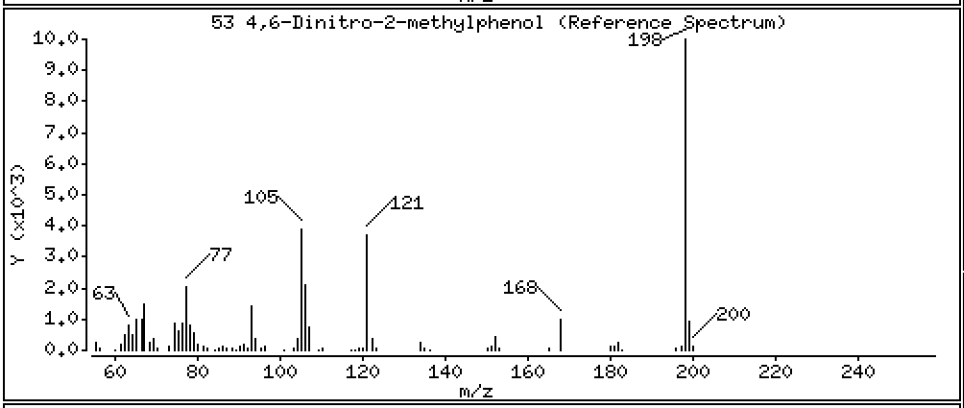
Concentration: 0.009913 ug/mL

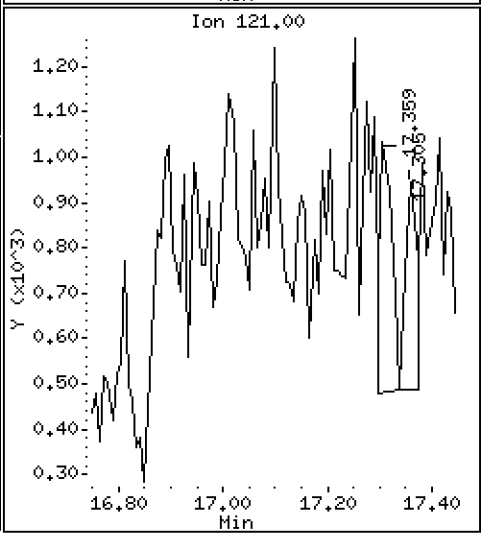


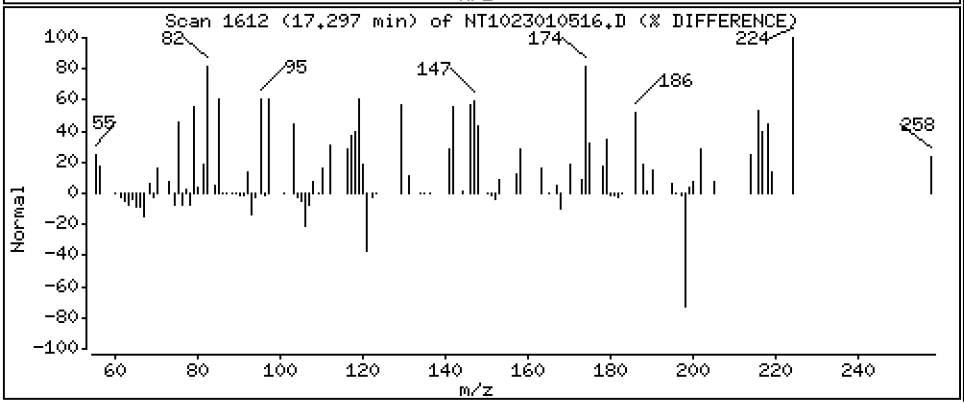












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

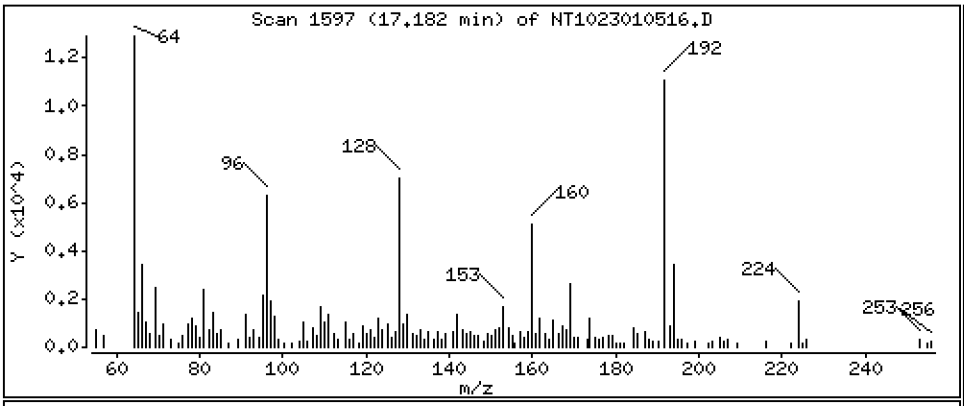
Operator: VTS

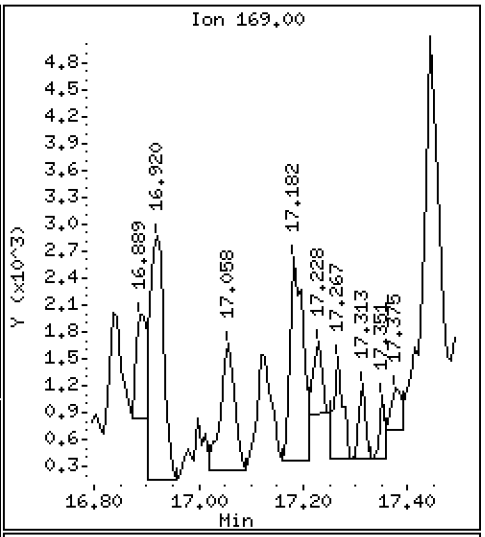
Column phase: ZB-5msi

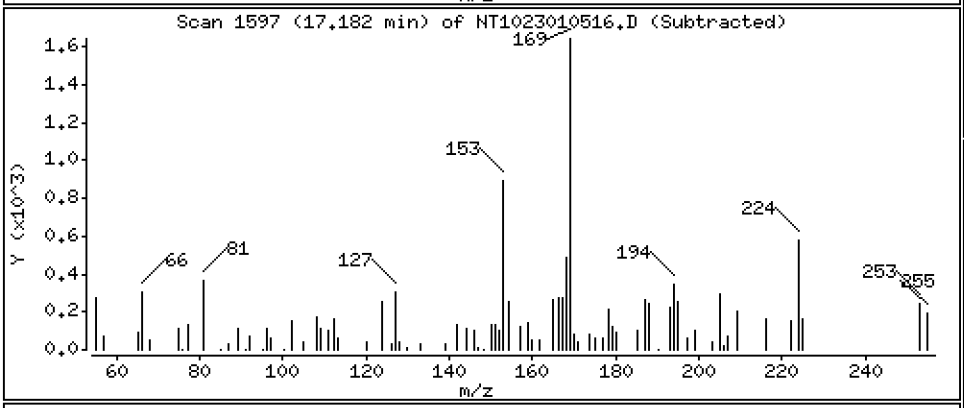
Column diameter: 0.25

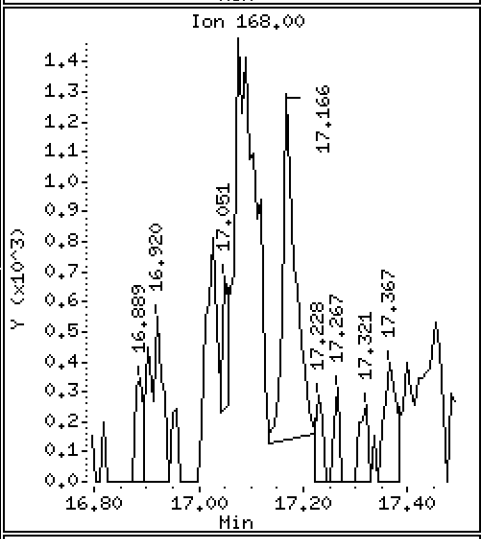
54 N-Nitrosodiphenylamine

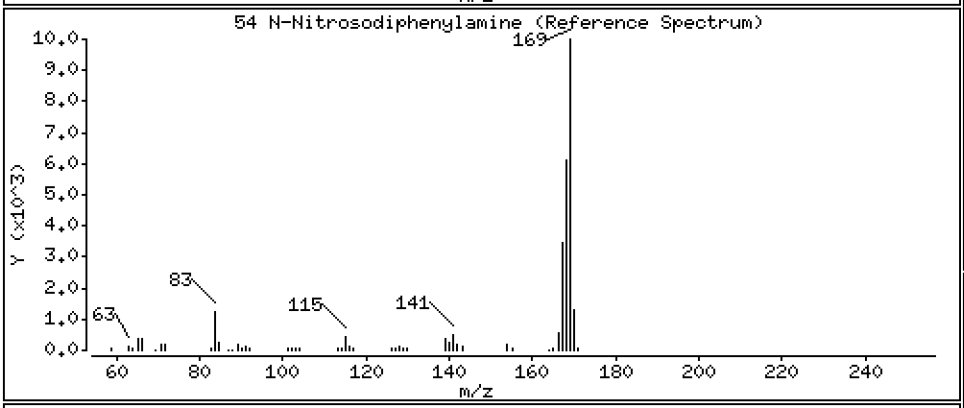
Concentration: 0.1133 ug/mL

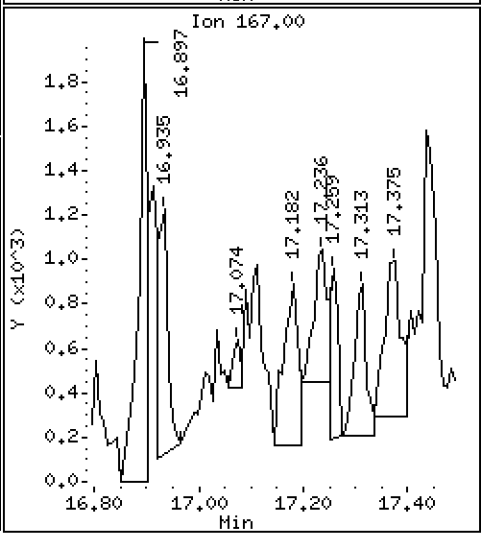


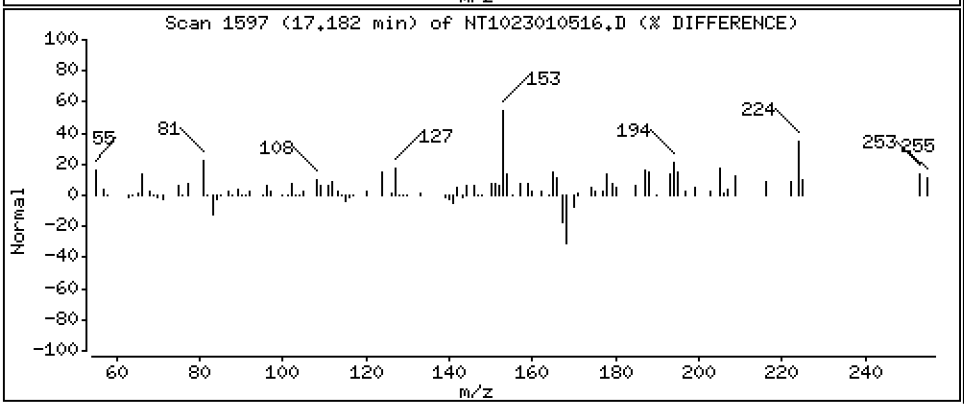












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

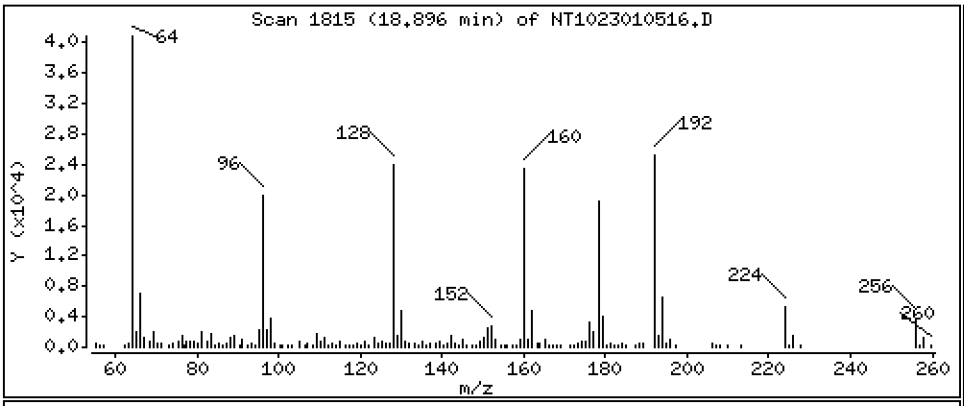
Operator: VTS

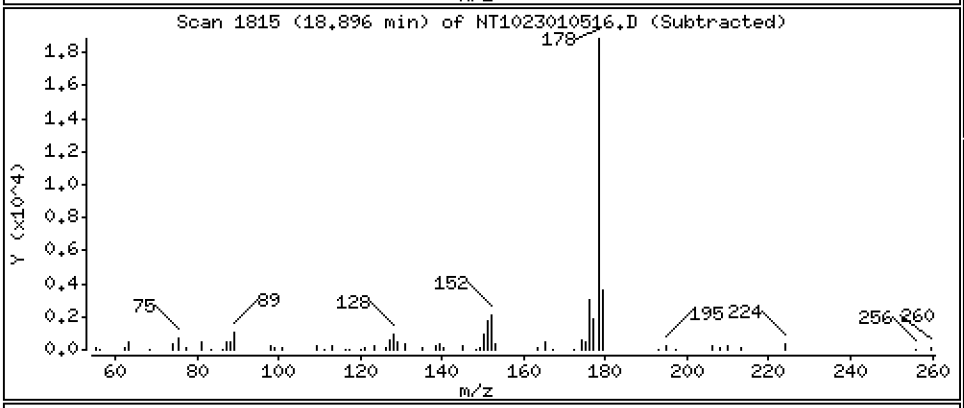
Column phase: ZB-5msi

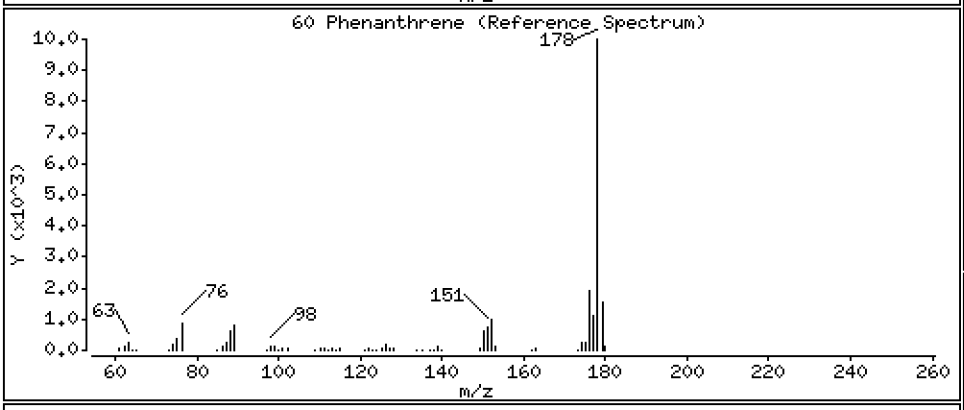
Column diameter: 0.25

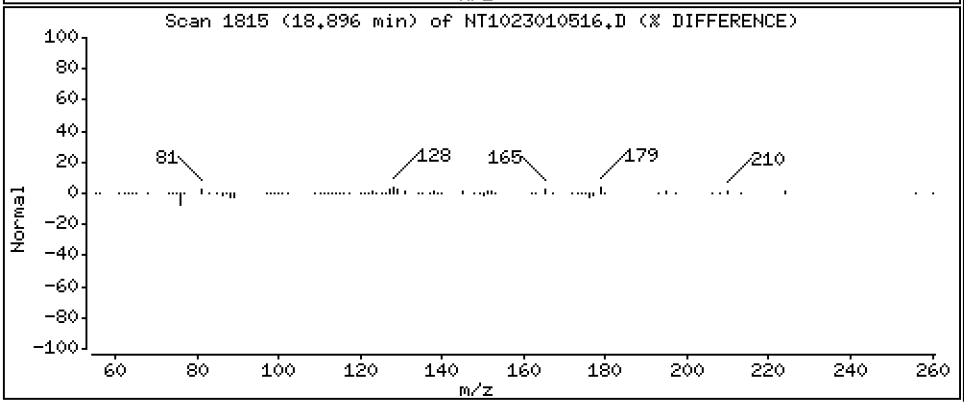
60 Phenanthrene

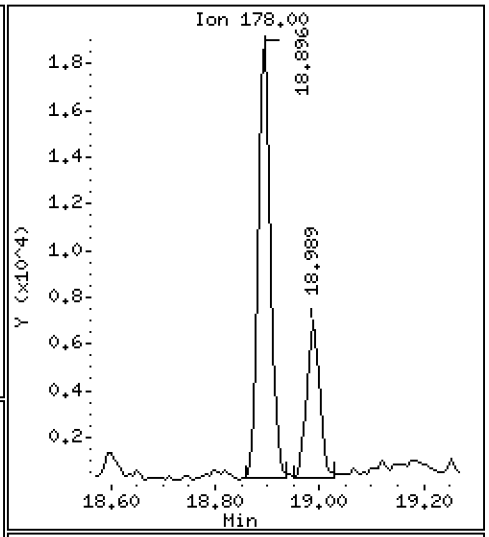
Concentration: 0.6375 ug/mL

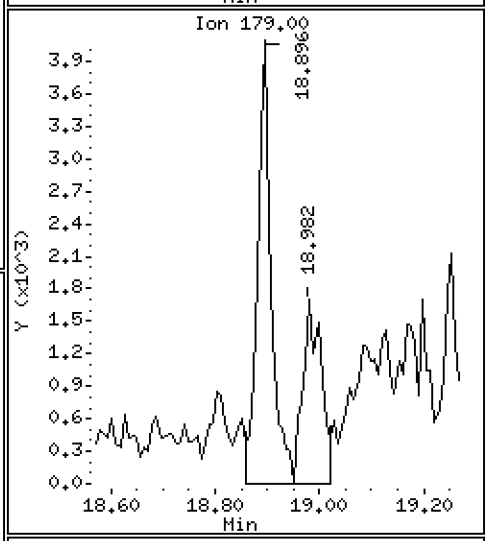


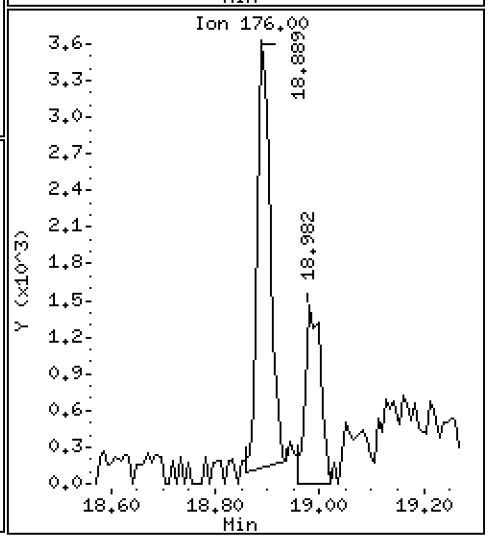












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

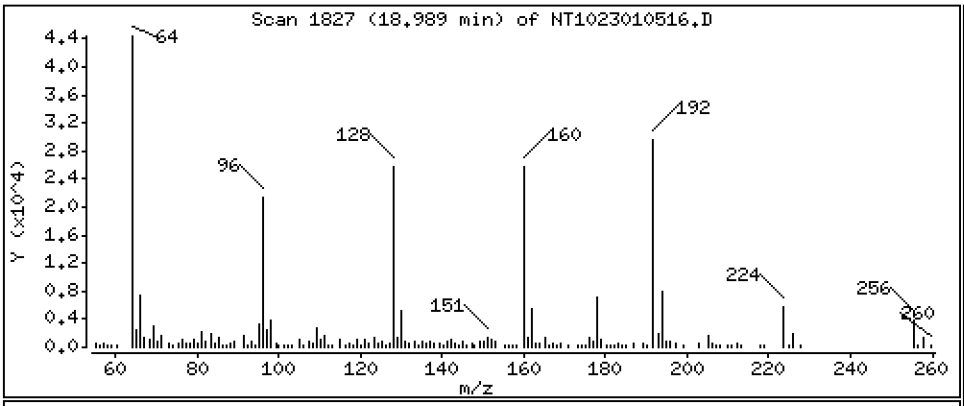
Operator: VTS

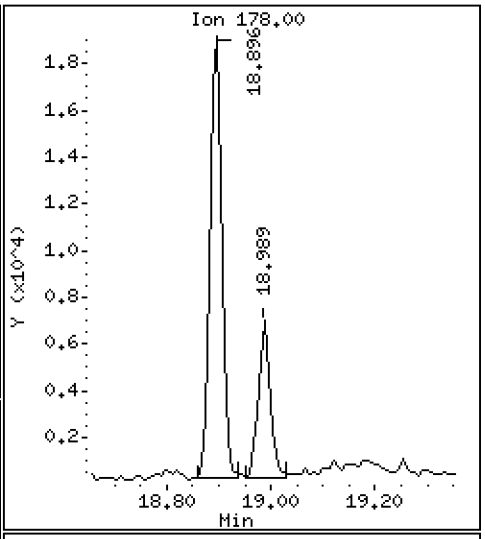
Column phase: ZB-5msi

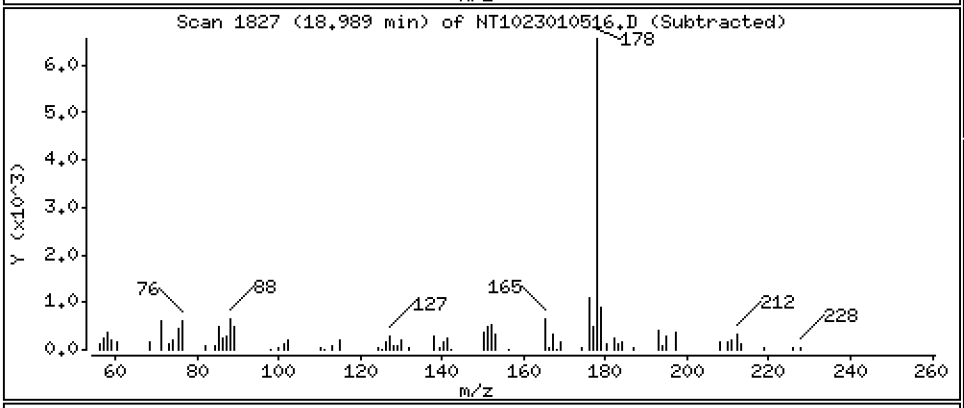
Column diameter: 0.25

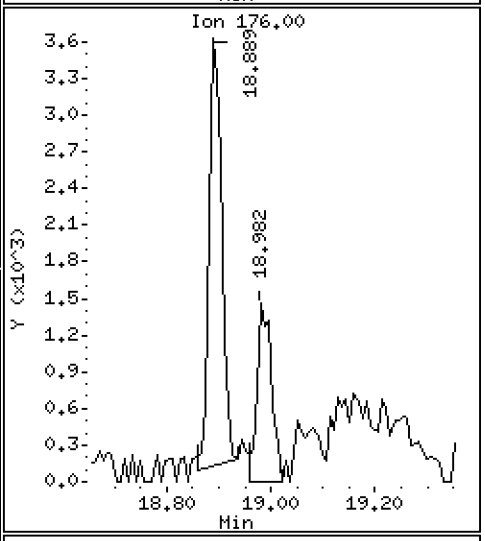
61 Anthracene

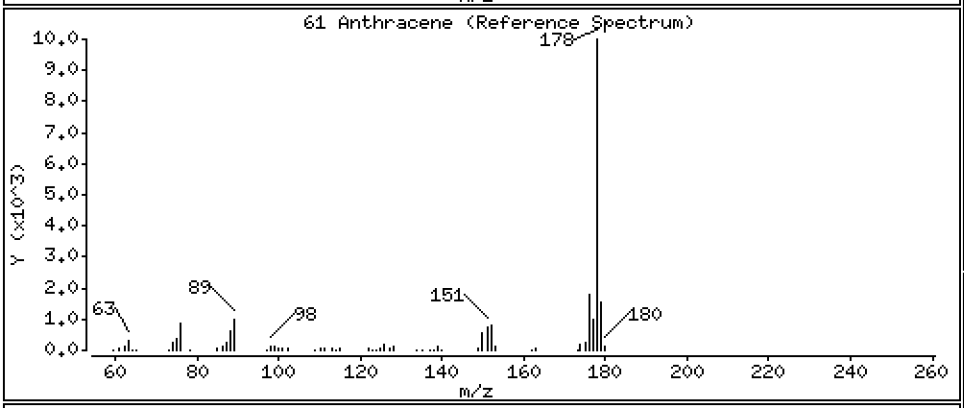
Concentration: 0.2298 ug/mL

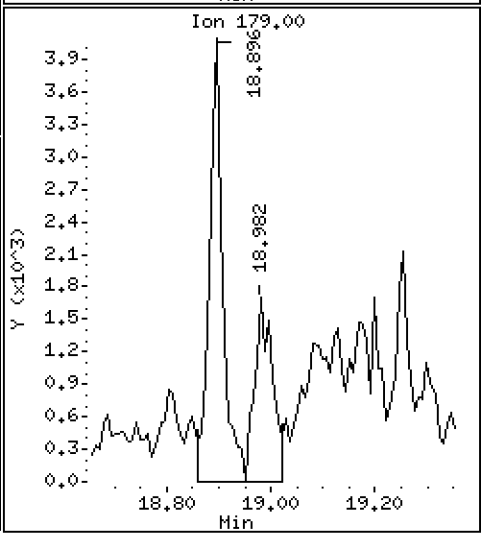


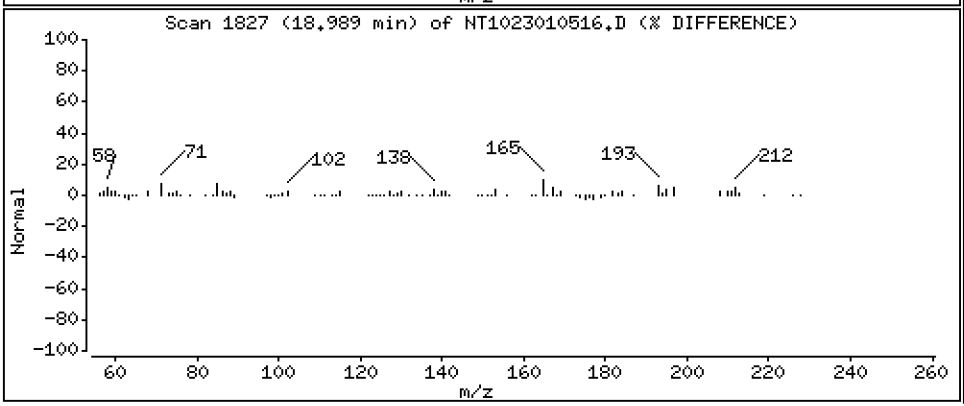












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

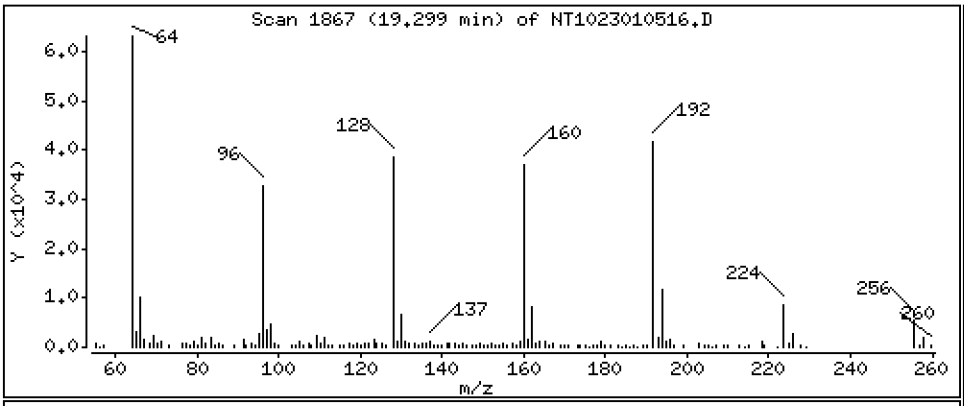
Operator: VTS

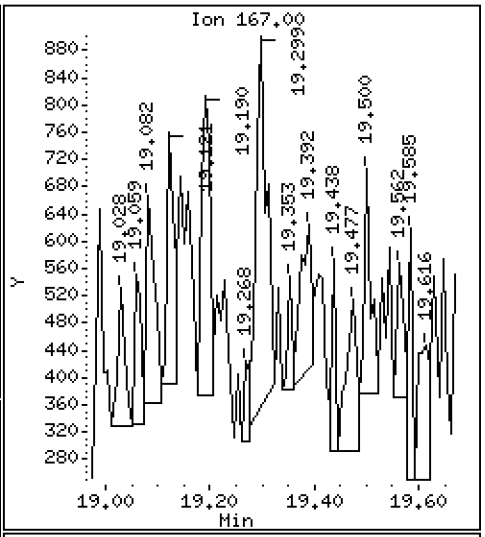
Column phase: ZB-5msi

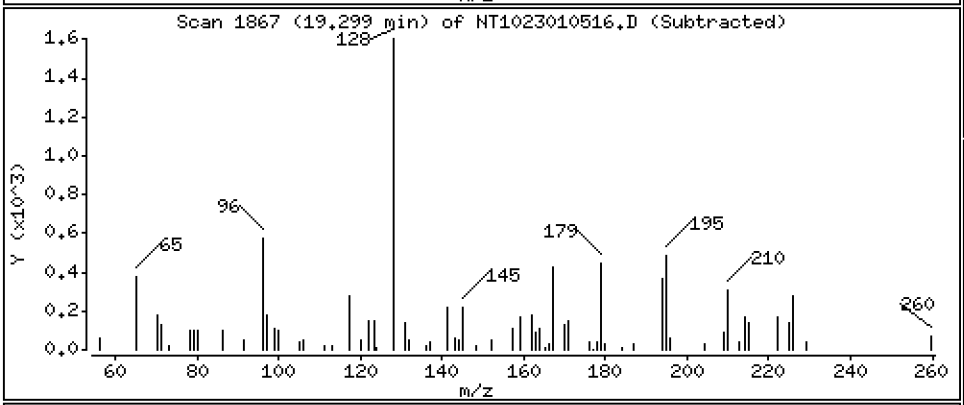
Column diameter: 0.25

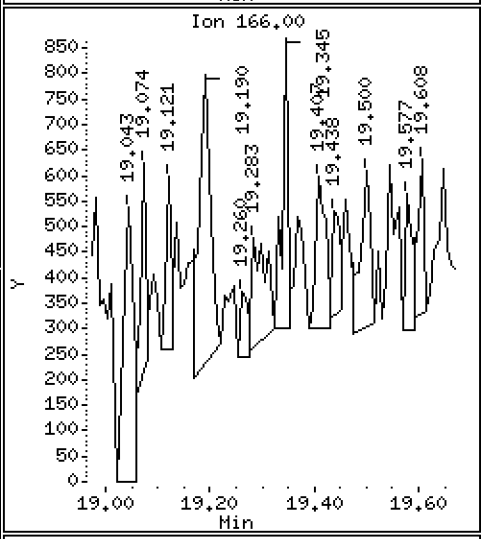
62 Carbazole

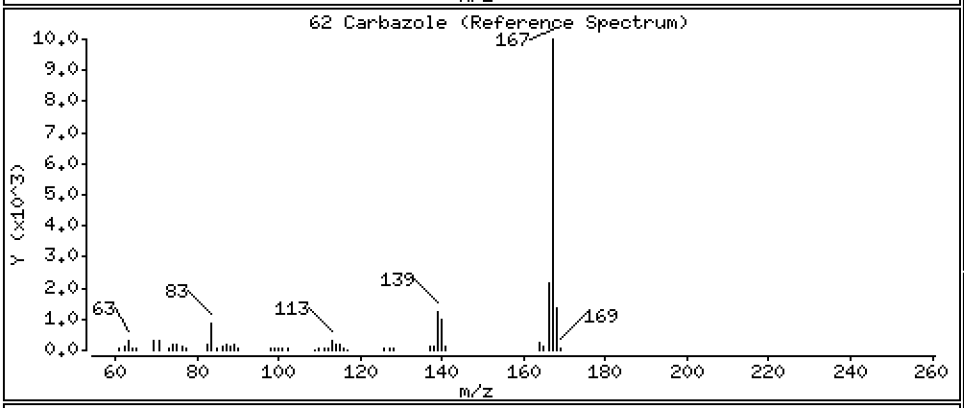
Concentration: 0.01530 ug/mL

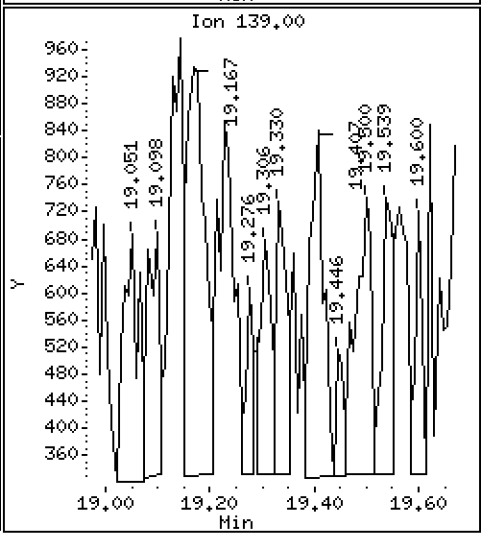


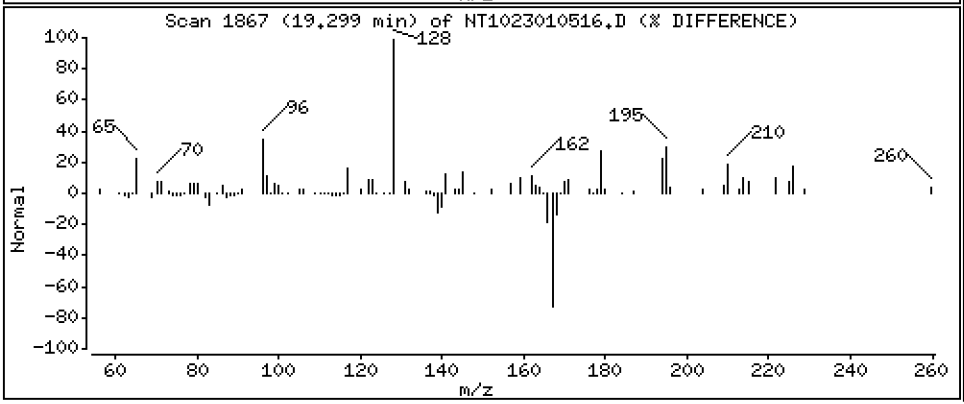












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

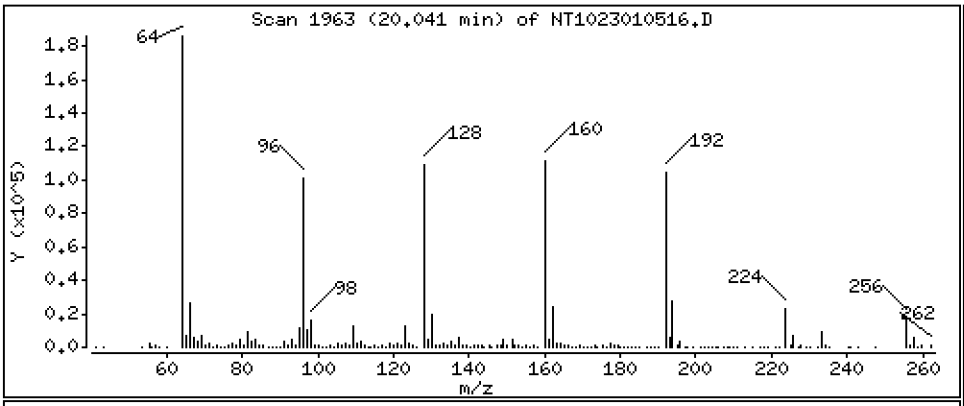
Operator: VTS

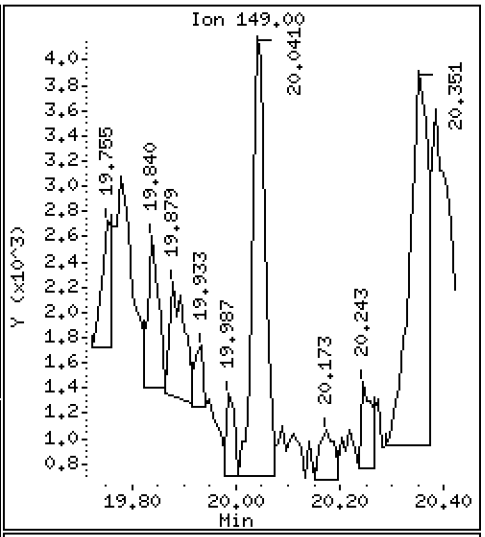
Column phase: ZB-5msi

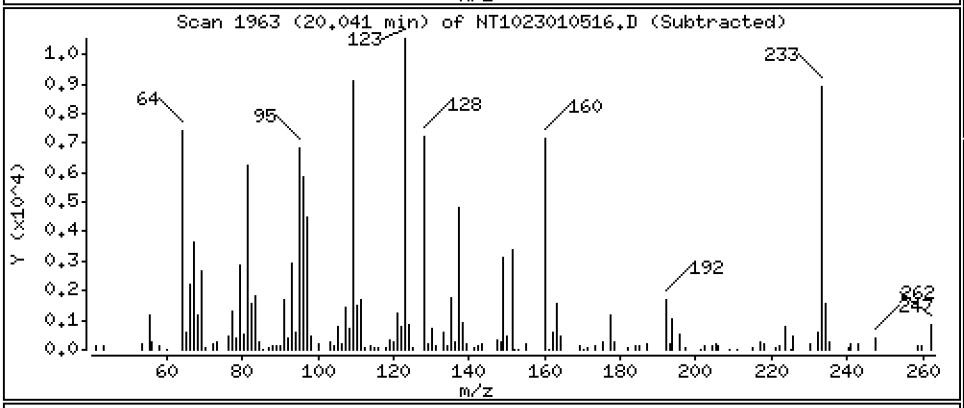
Column diameter: 0.25

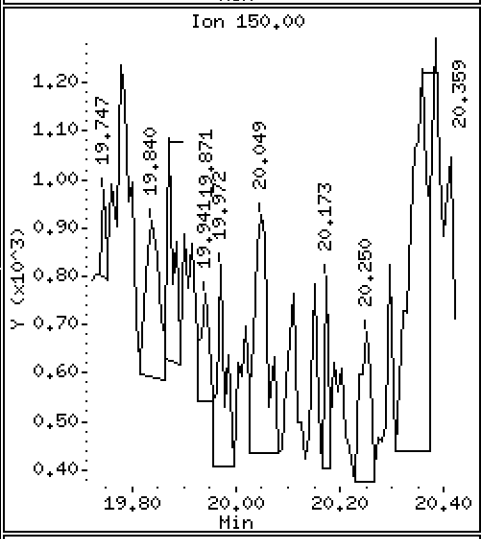
63 Di-n-butylphthalate

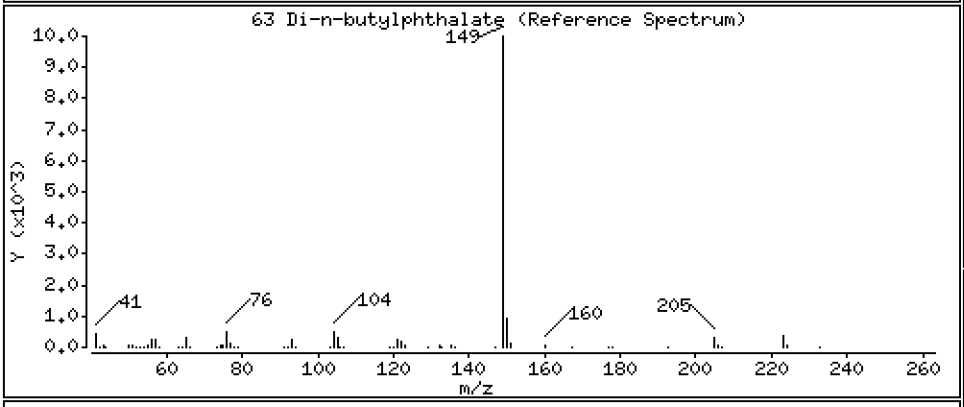
Concentration: 0.09156 ug/mL

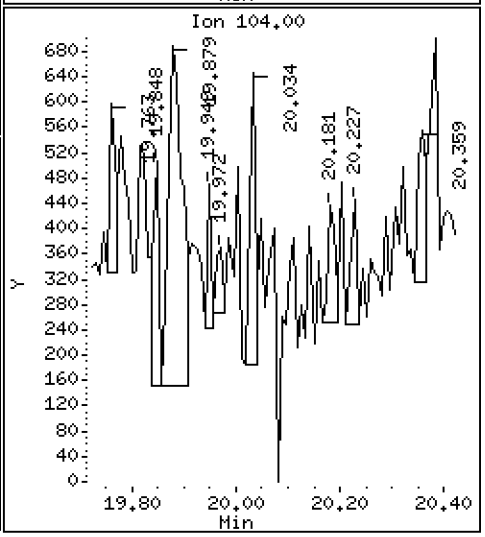


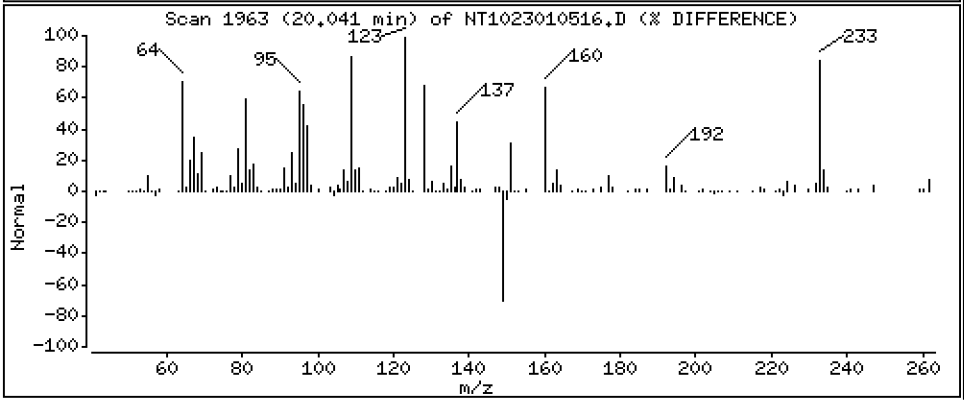












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

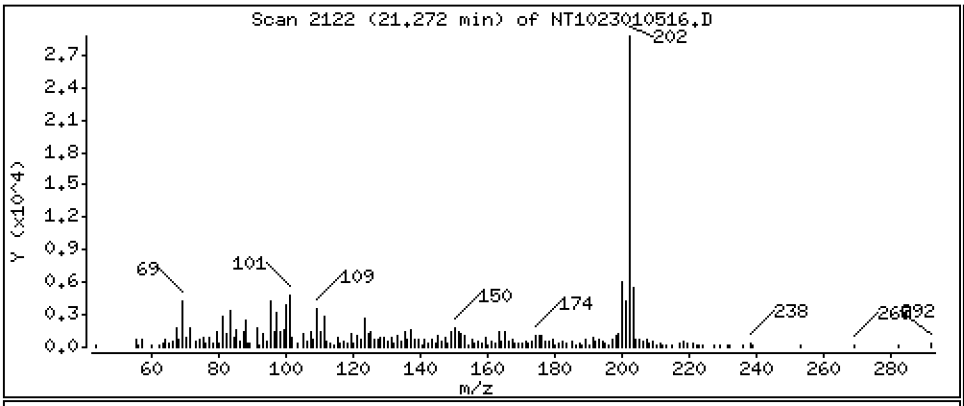
Operator: VTS

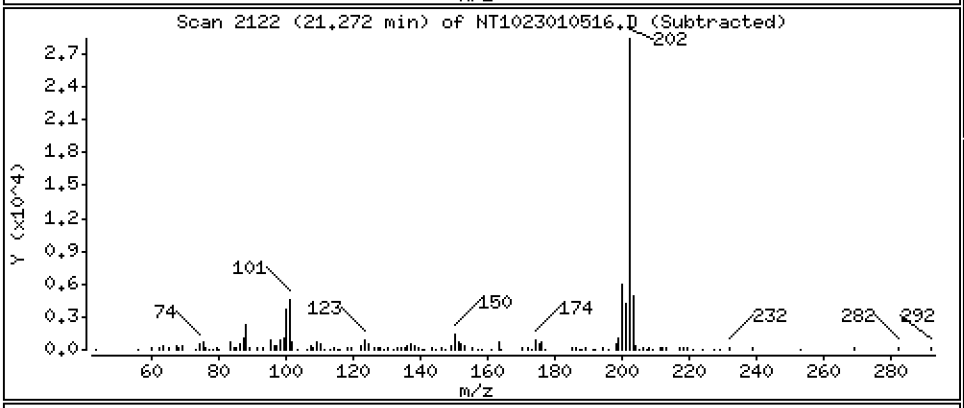
Column phase: ZB-5msi

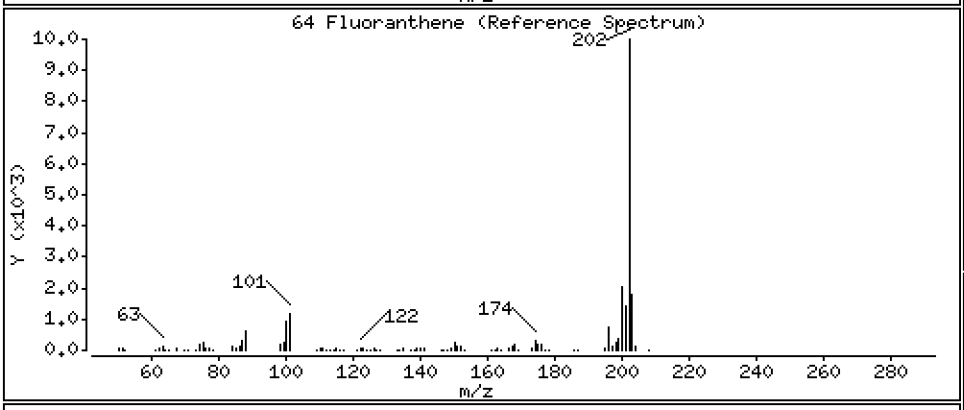
Column diameter: 0.25

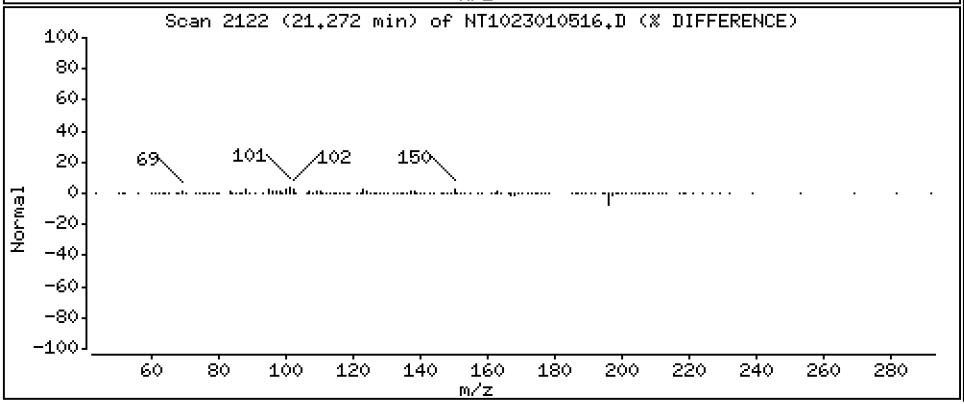
64 Fluoranthene

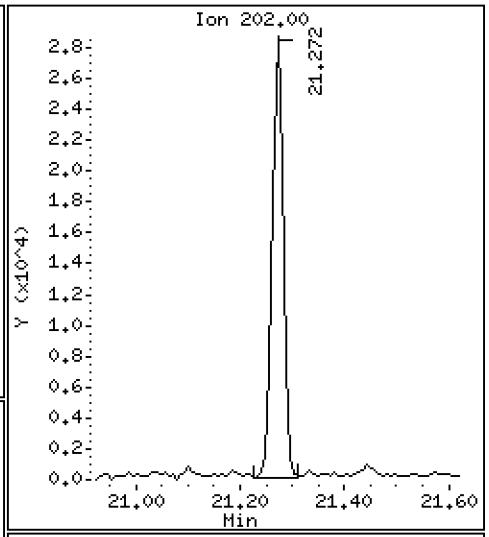
Concentration: 0.8922 ug/mL

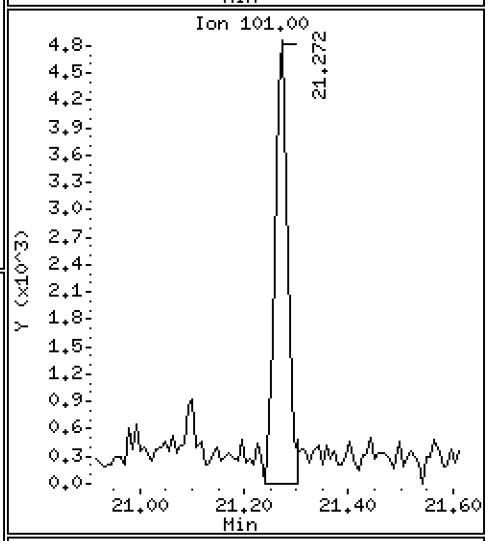


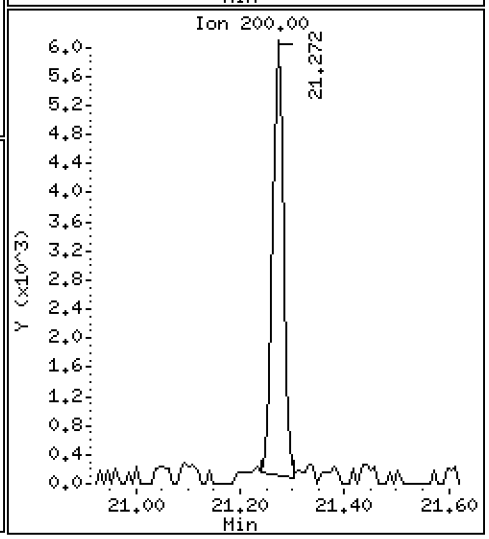












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

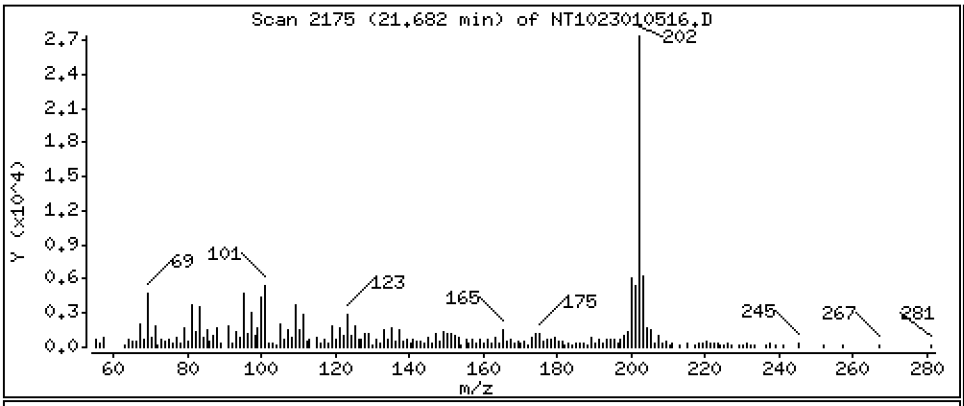
Operator: VTS

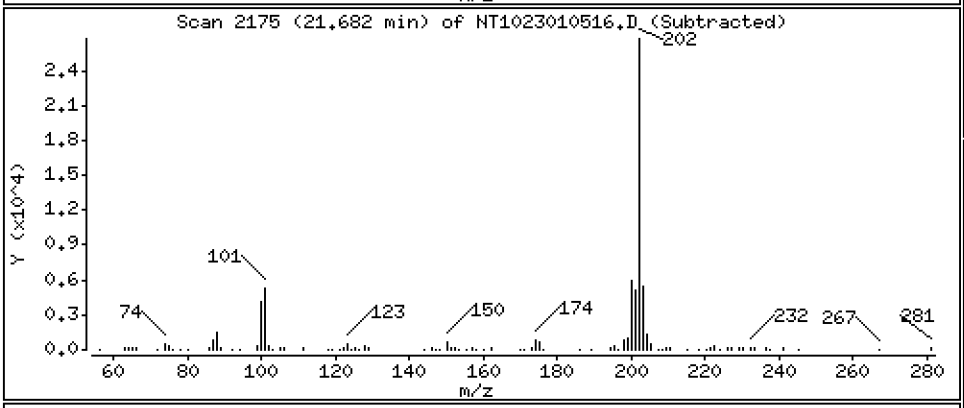
Column phase: ZB-5msi

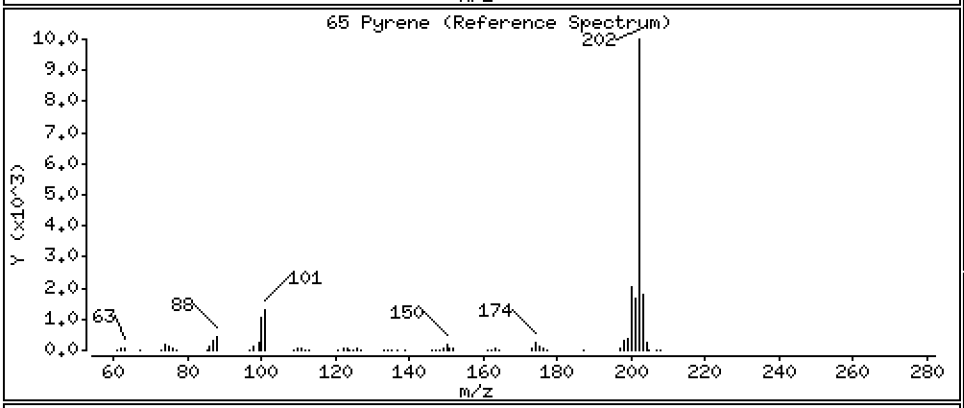
Column diameter: 0.25

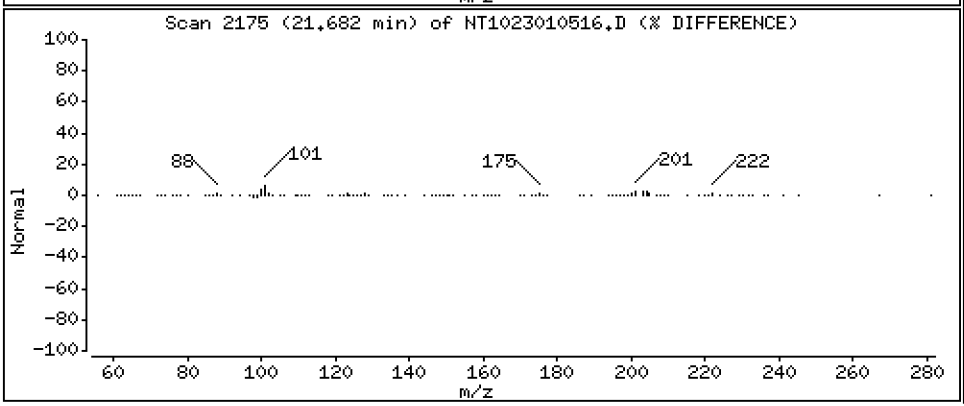
65 Pyrene

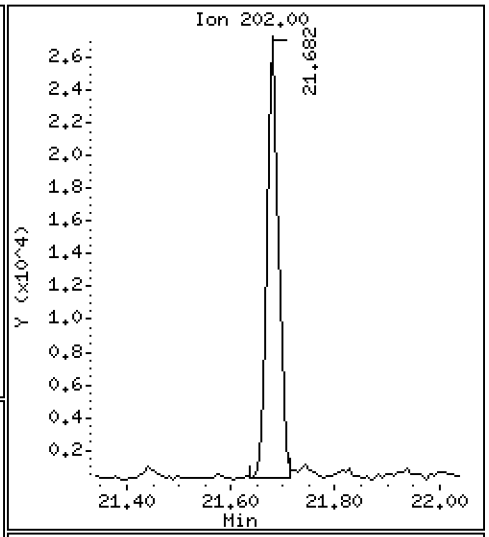
Concentration: 0.9187 ug/mL

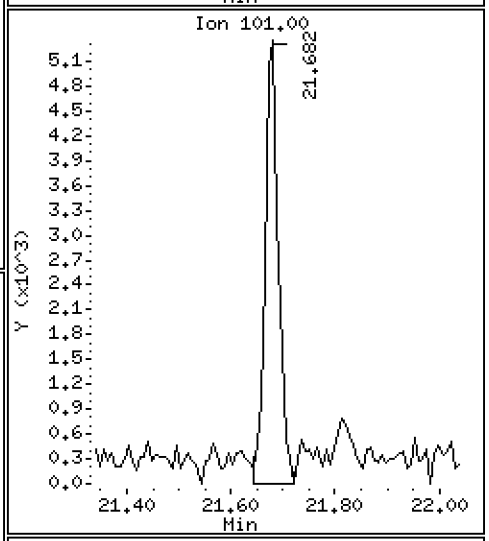


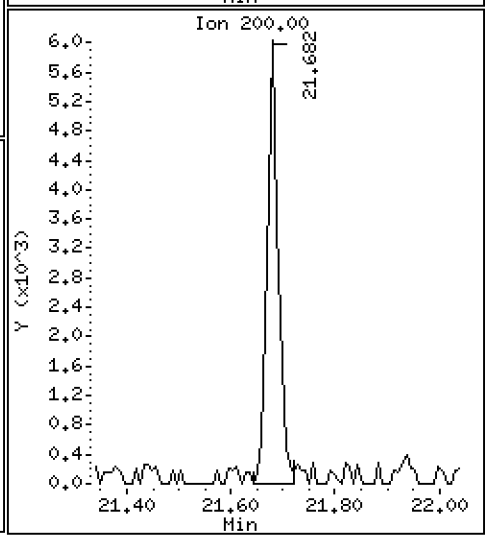












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

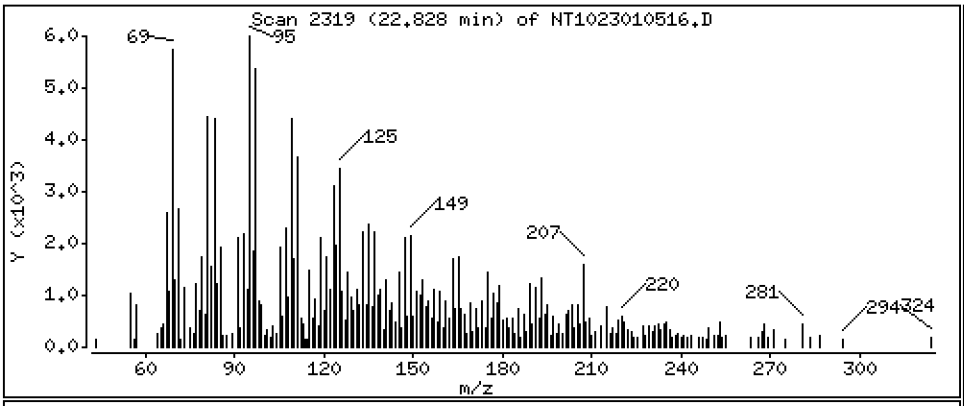
Operator: VTS

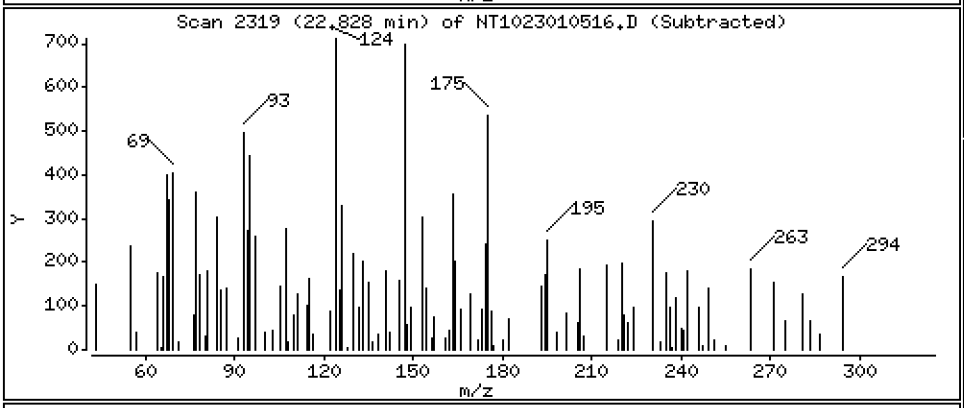
Column phase: ZB-5msi

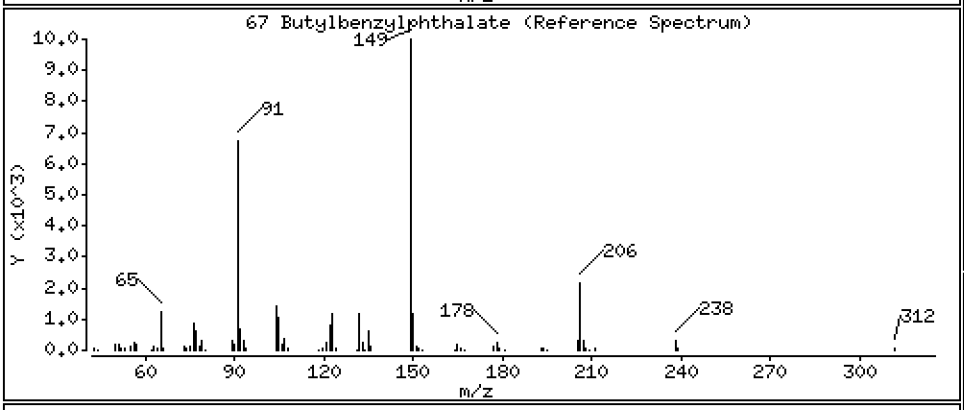
Column diameter: 0.25

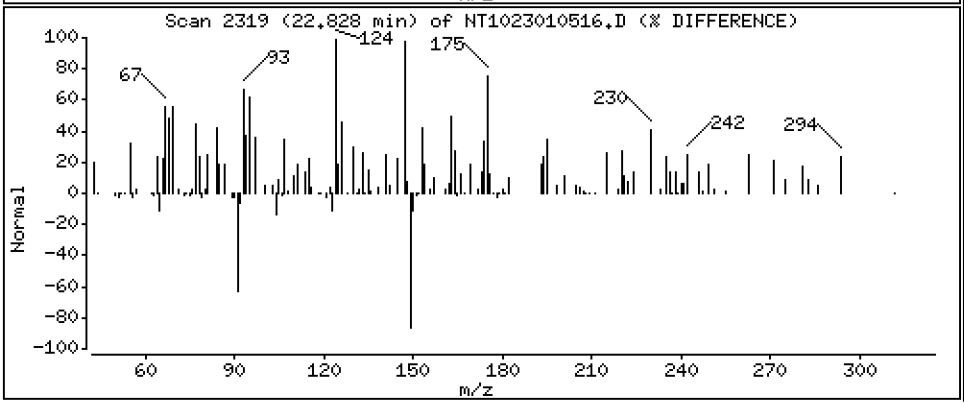
67 Butylbenzylphthalate

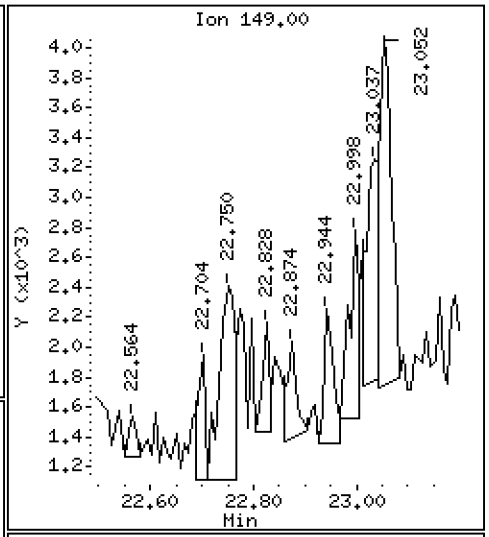
Concentration: 0.03016 ug/mL

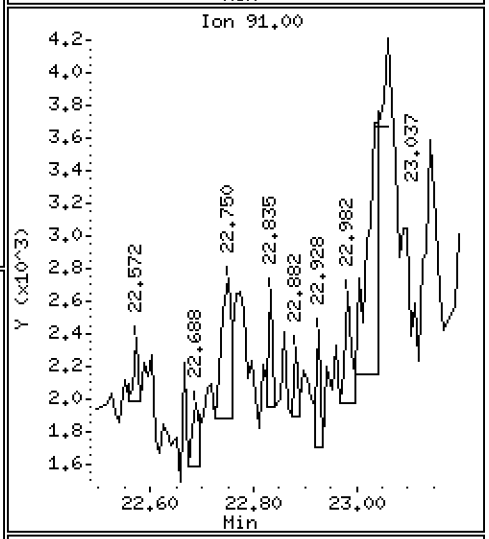


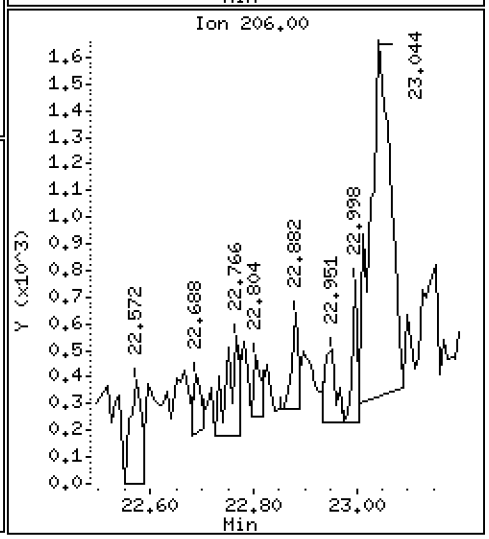












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

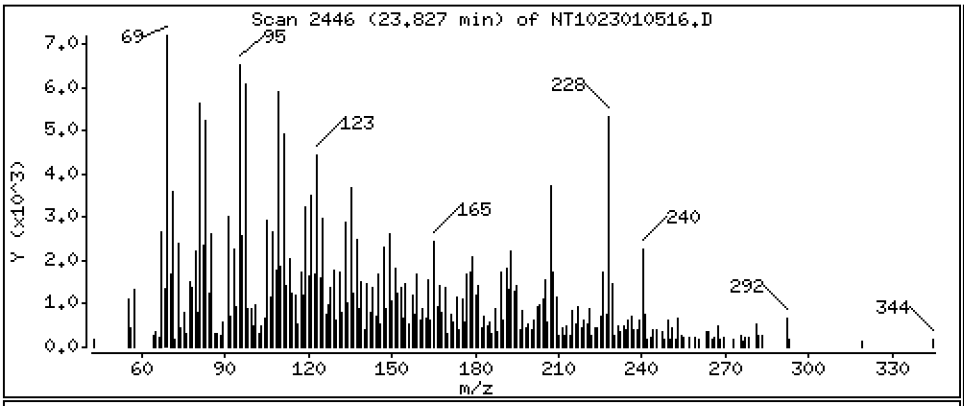
Operator: VTS

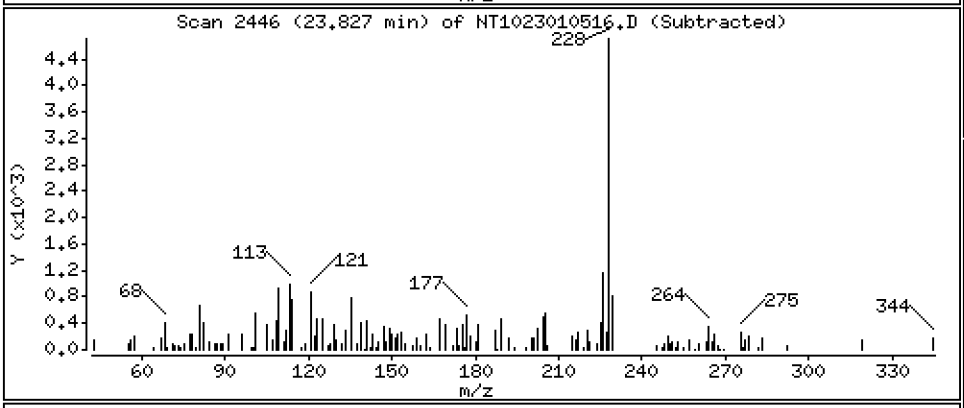
Column phase: ZB-5msi

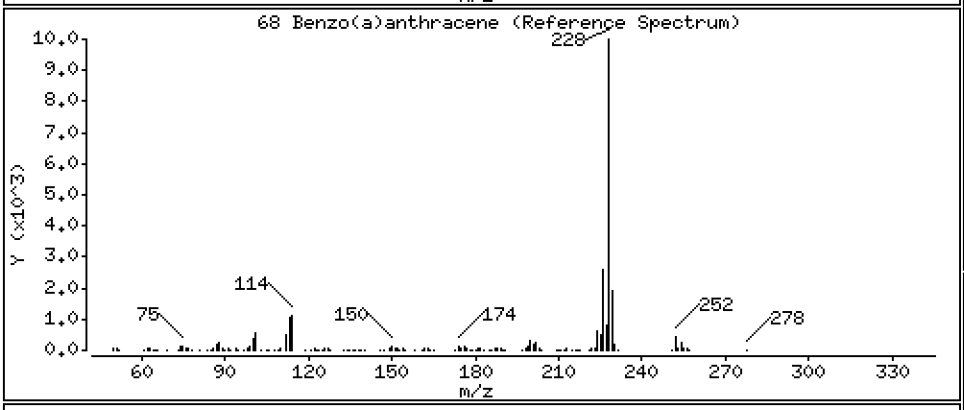
Column diameter: 0.25

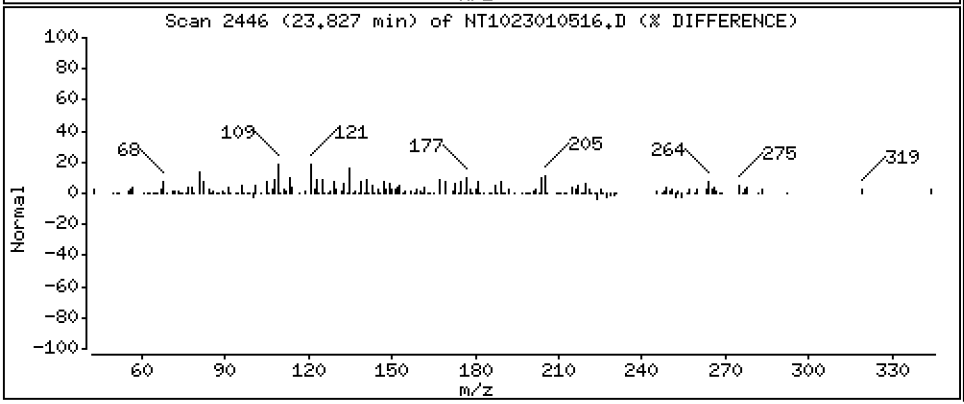
68 Benzo(a)anthracene

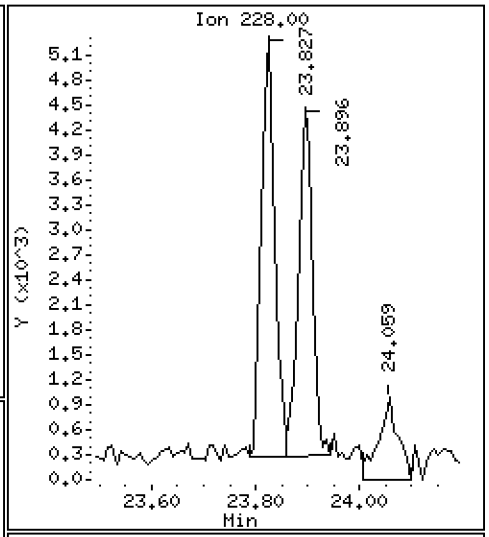
Concentration: 0.2990 ug/mL

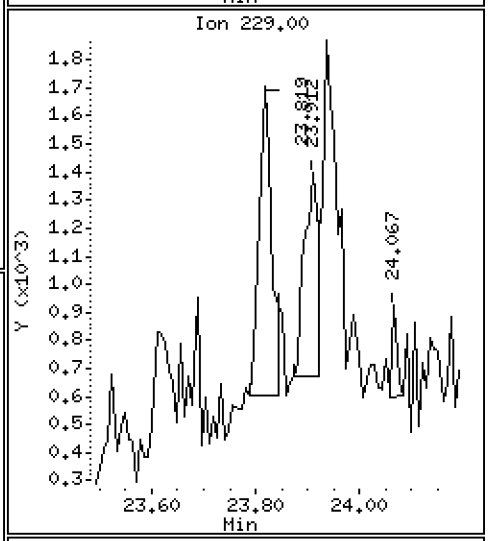


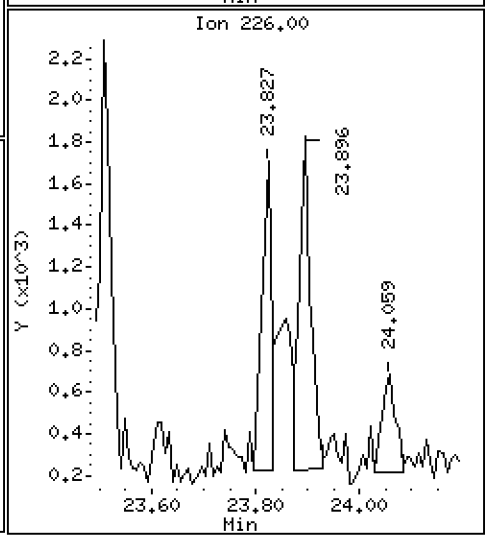












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

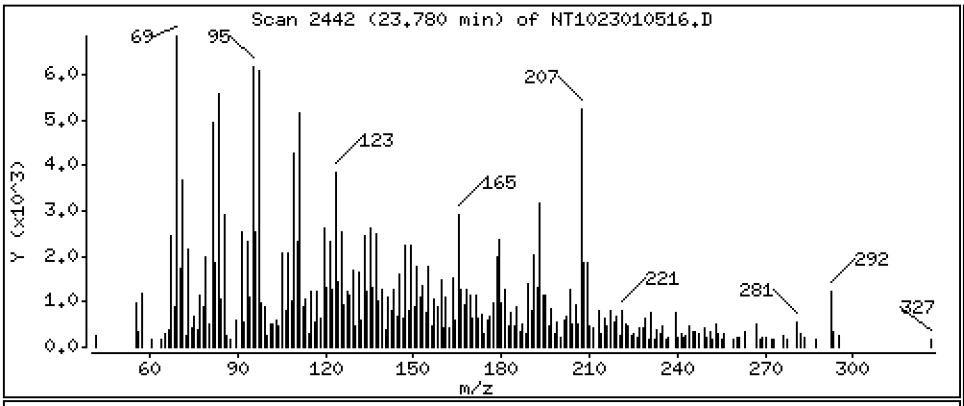
Operator: VTS

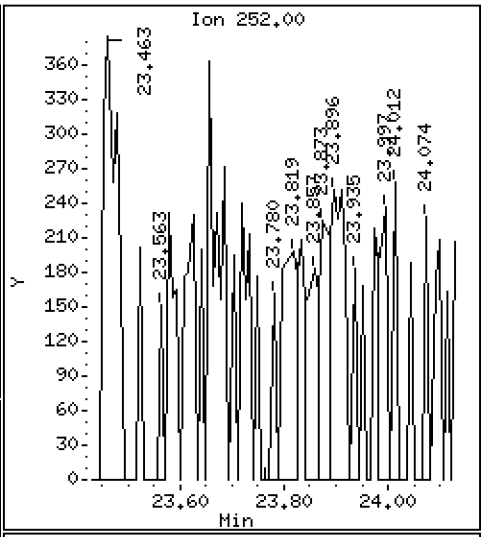
Column phase: ZB-5msi

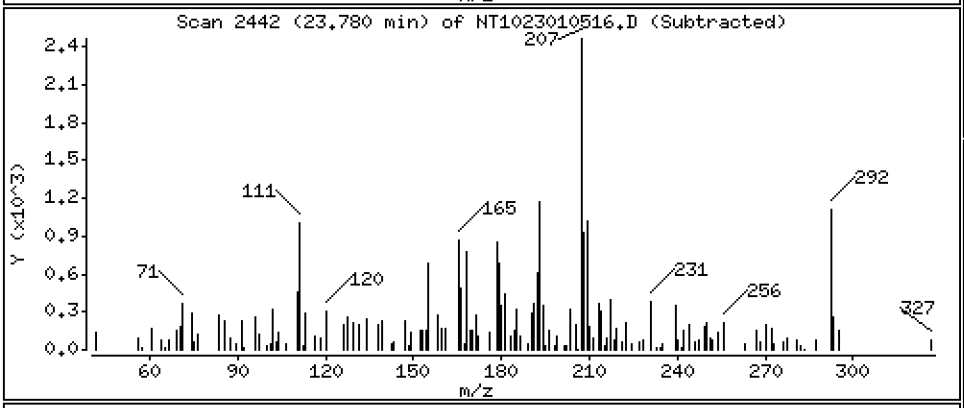
Column diameter: 0.25

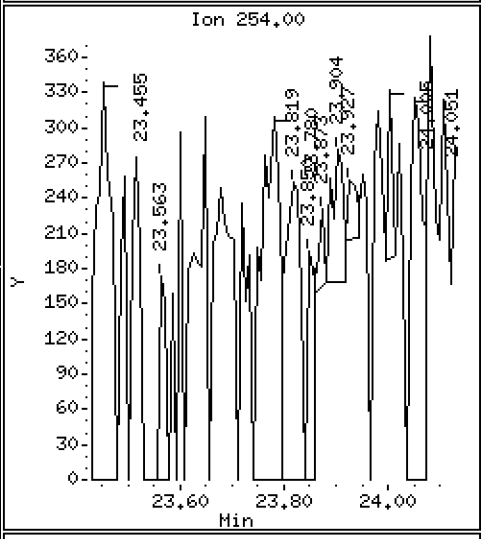
70 3,3'-Dichlorobenzidine

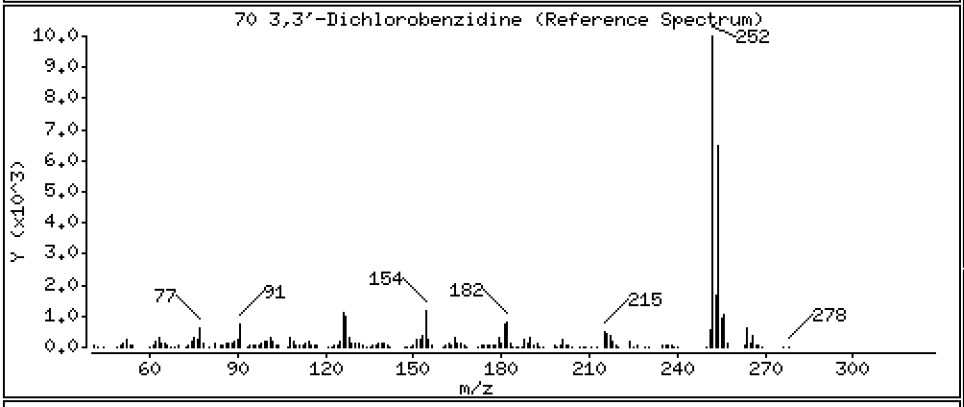
Concentration: 0.006762 ug/mL

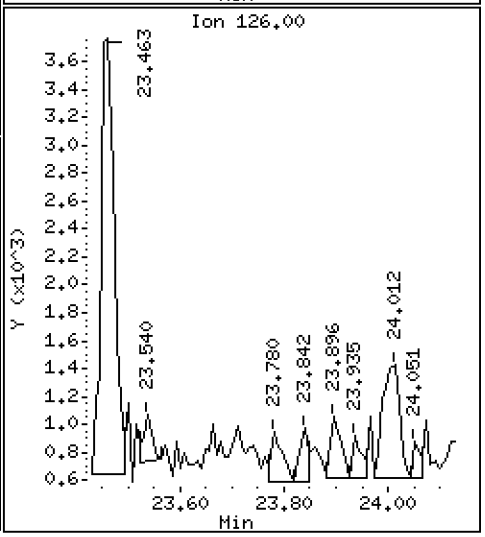


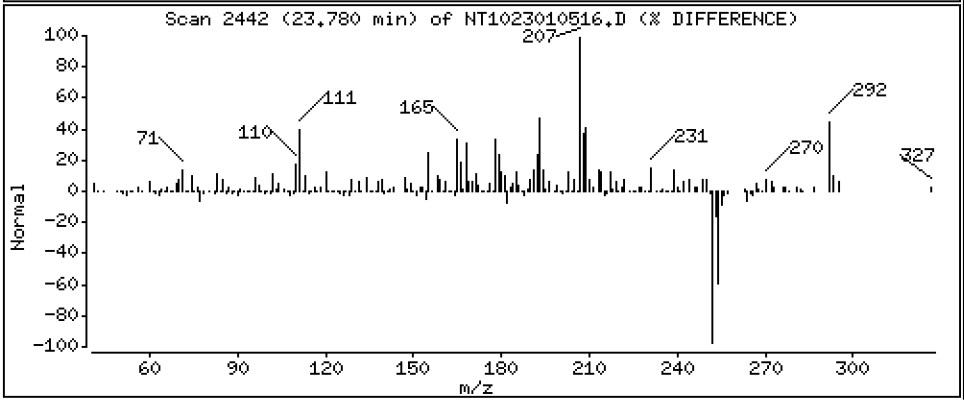












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

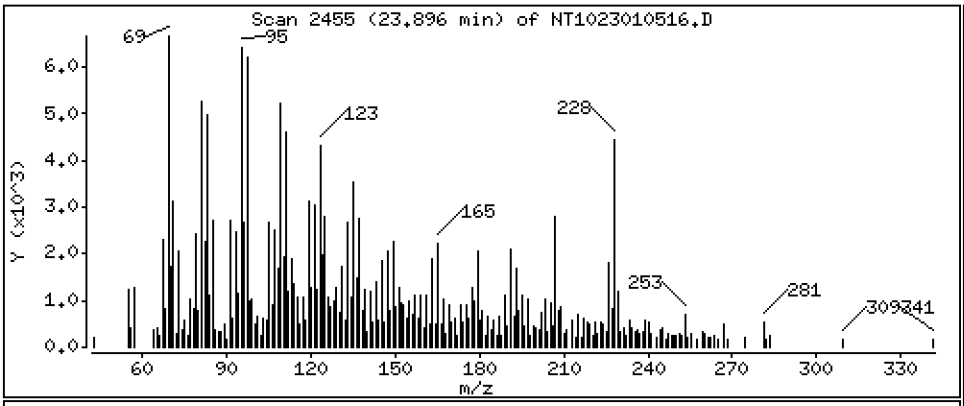
Operator: VTS

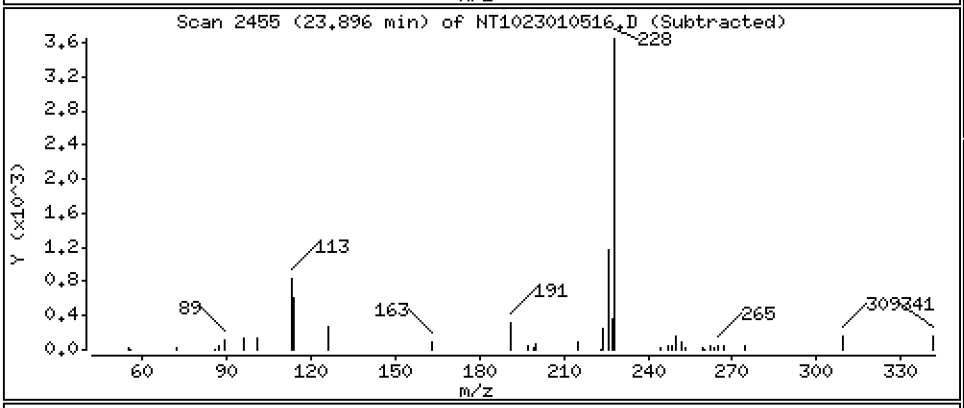
Column phase: ZB-5msi

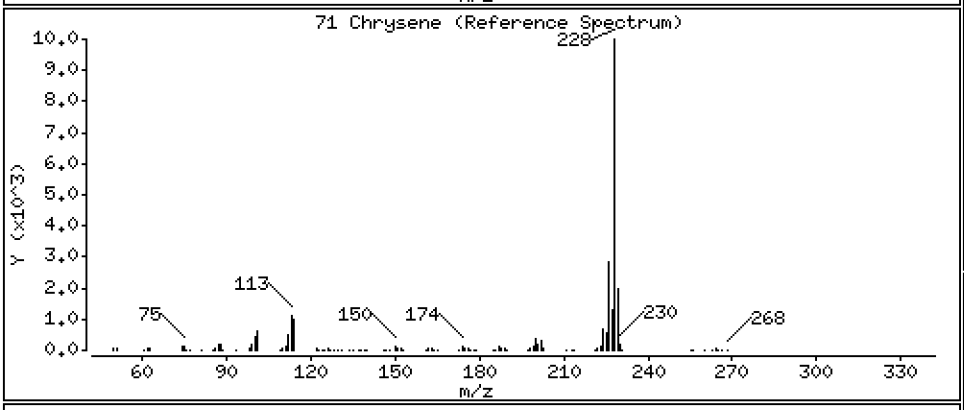
Column diameter: 0.25

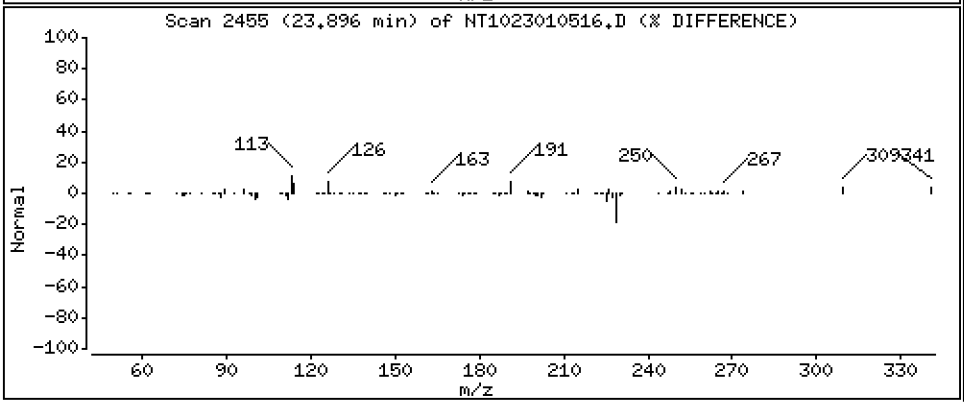
71 Chrysene

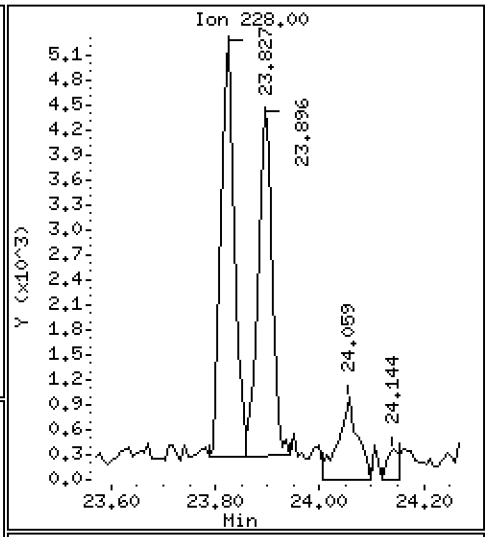
Concentration: 0.2878 ug/mL

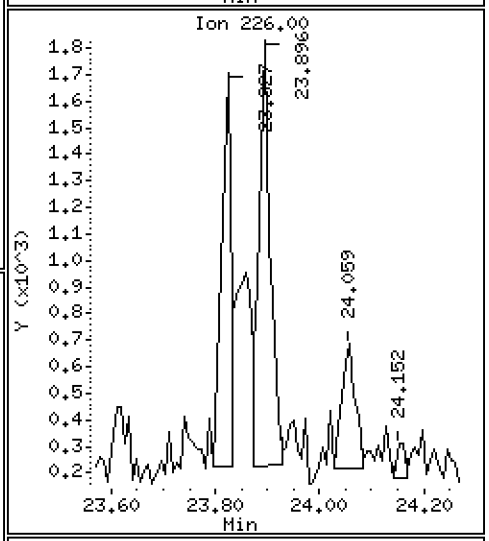


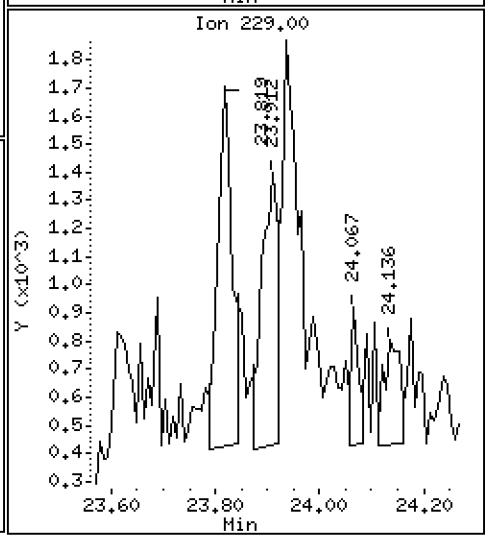












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

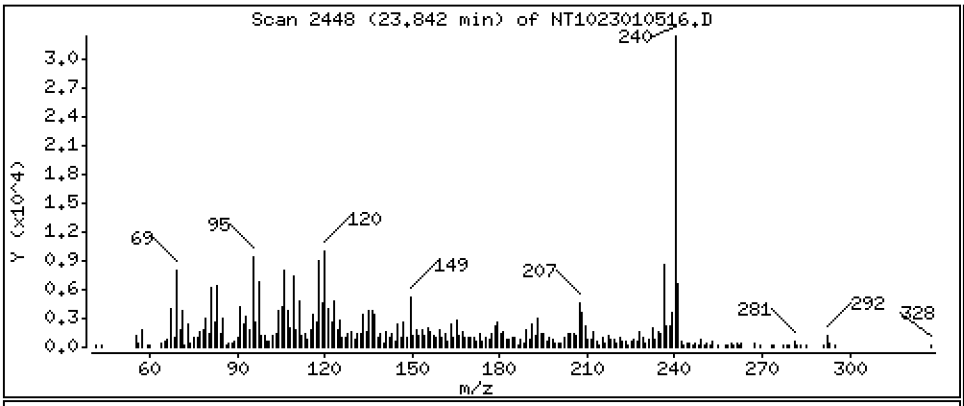
Operator: VTS

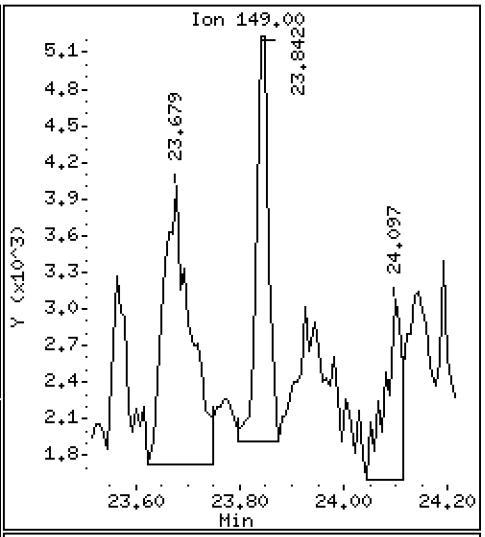
Column phase: ZB-5msi

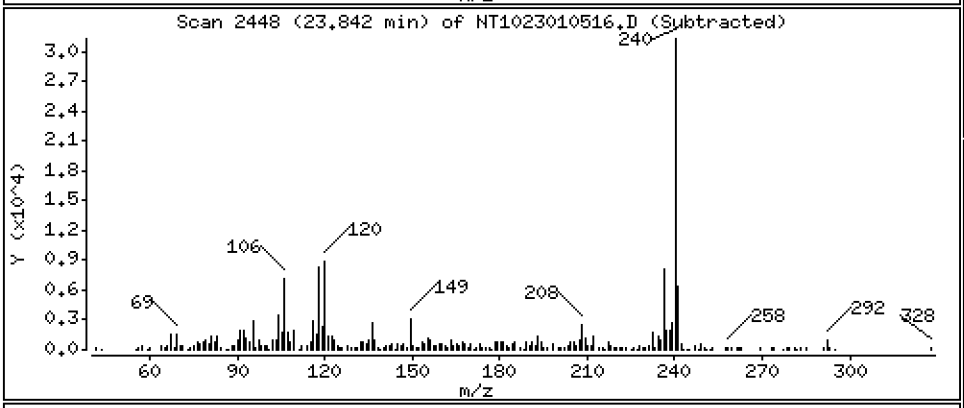
Column diameter: 0.25

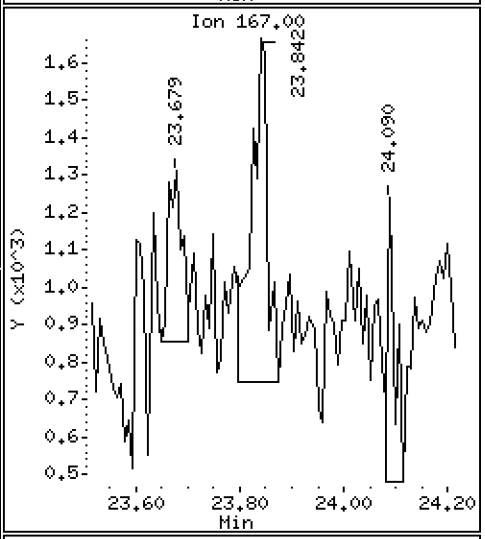
72 bis(2-Ethylhexyl)phthalate

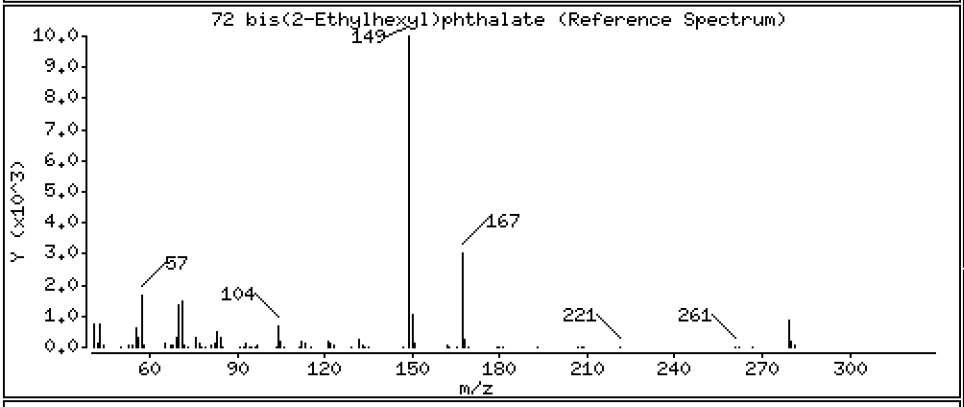
Concentration: 0.1568 ug/mL

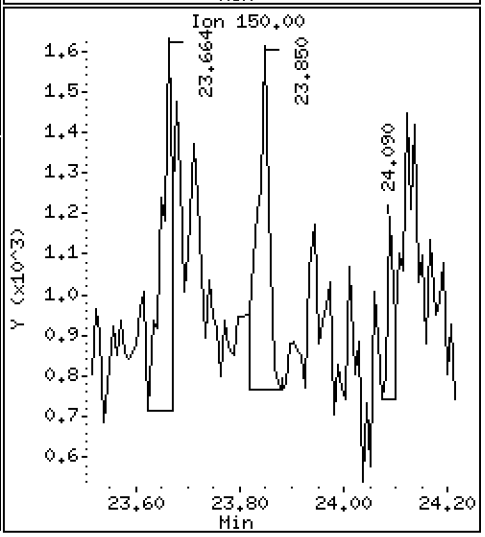


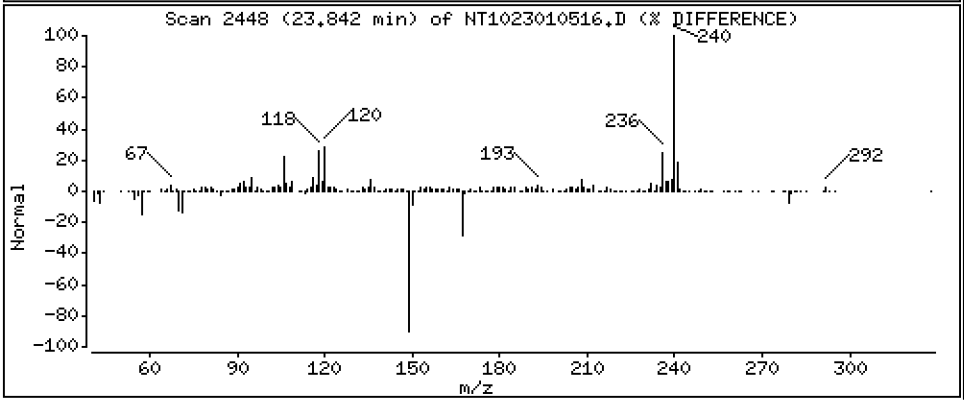












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D

Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

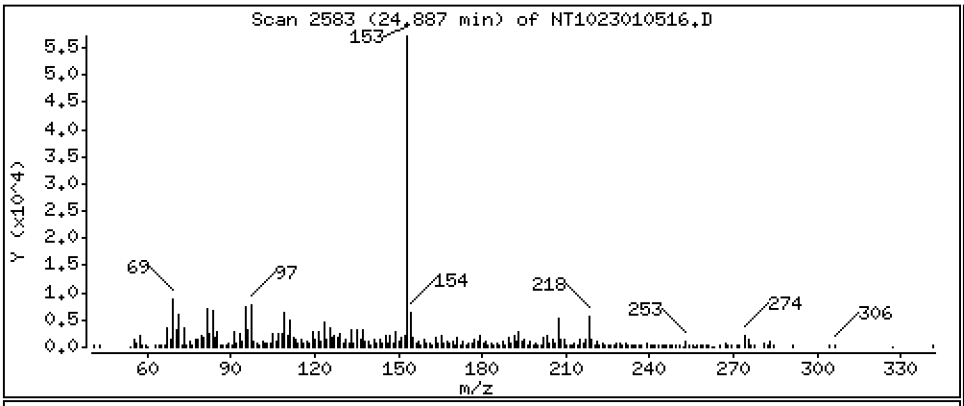
Operator: VTS

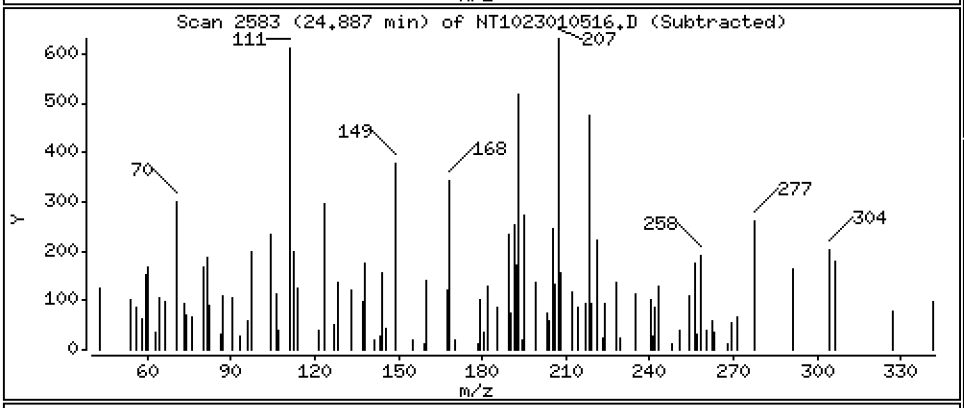
Column phase: ZB-5msi

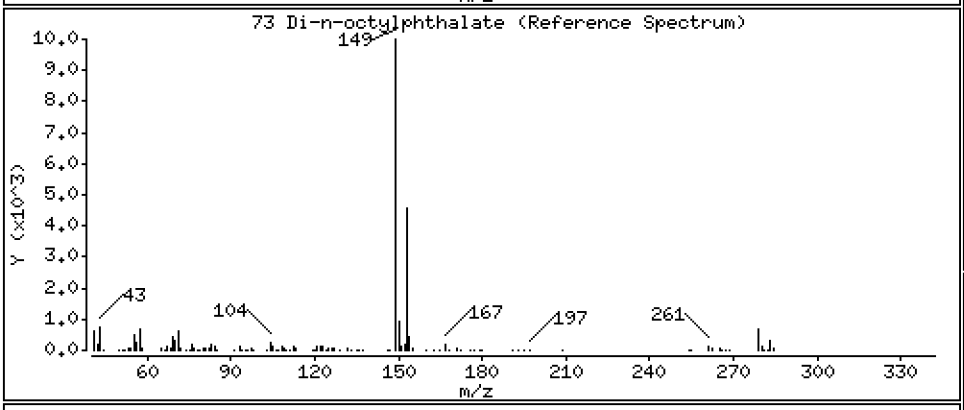
Column diameter: 0.25

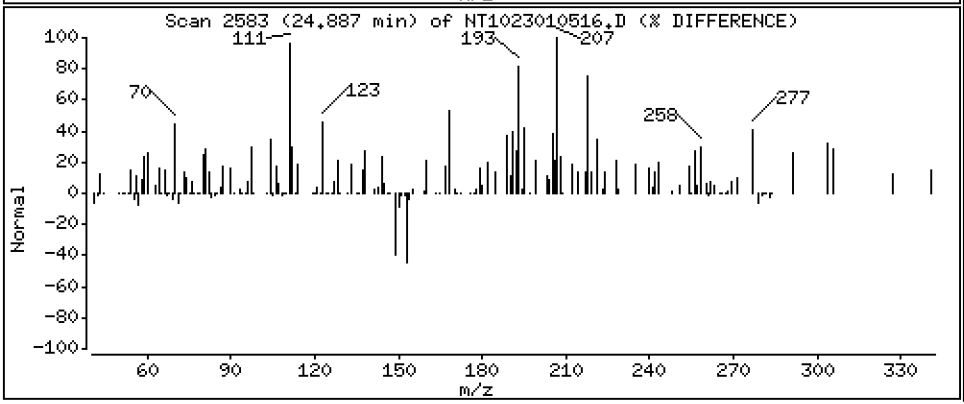
73 Di-n-octylphthalate

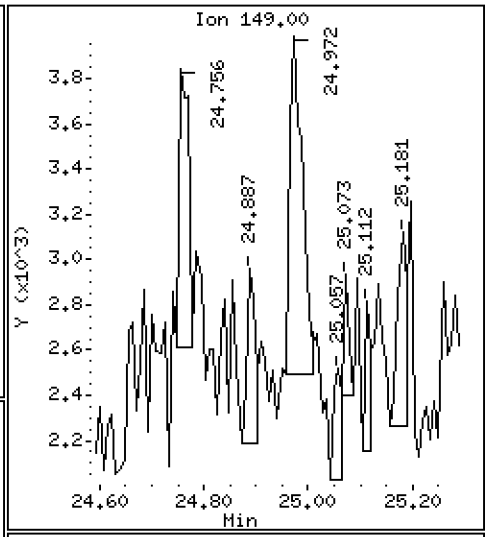
Concentration: 0.01437 ug/mL

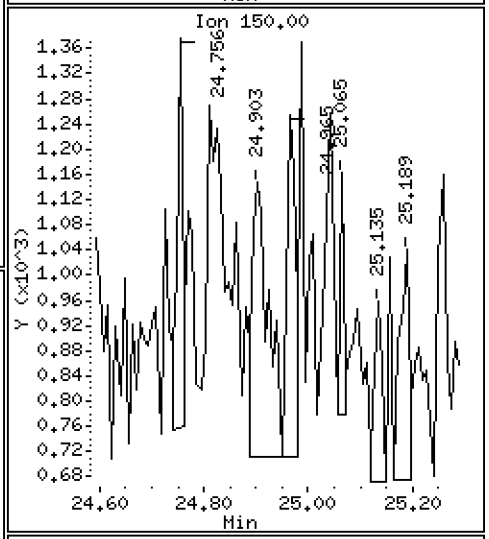


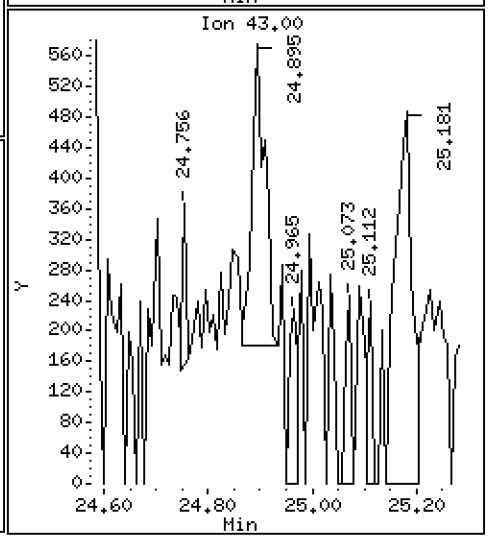












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

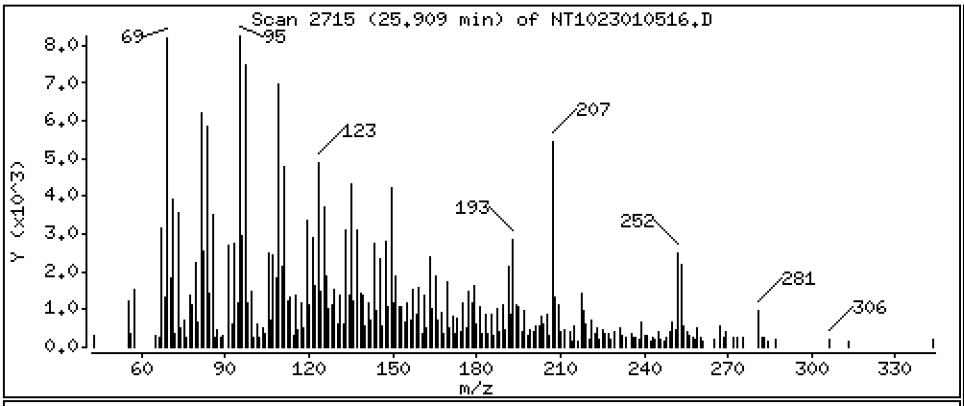
Operator: VTS

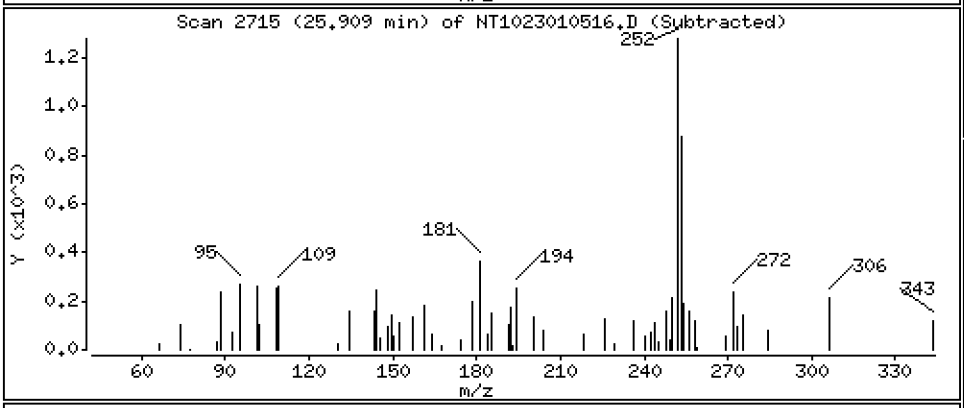
Column phase: ZB-5msi

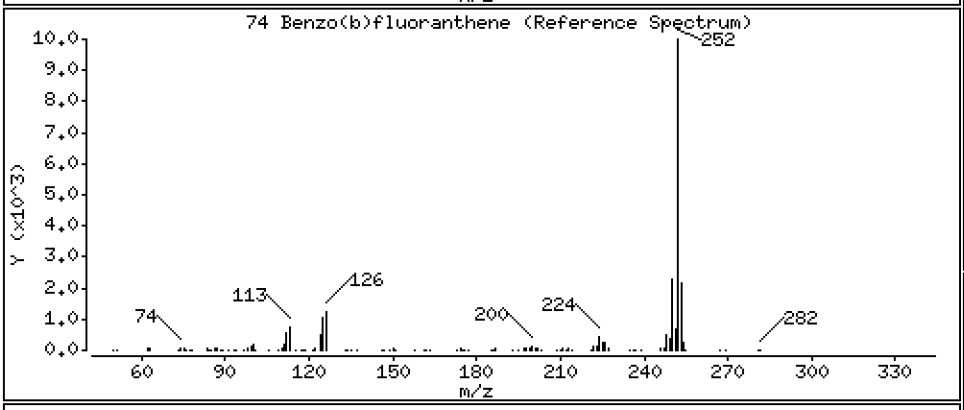
Column diameter: 0.25

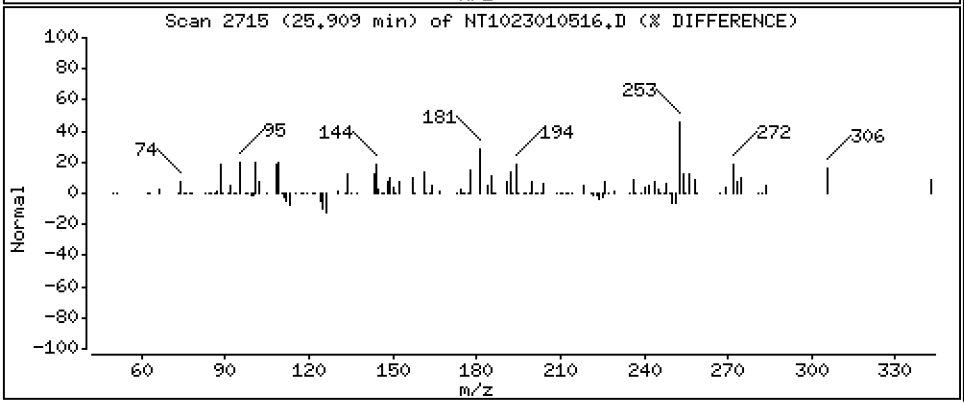
74 Benzo(b)fluoranthene

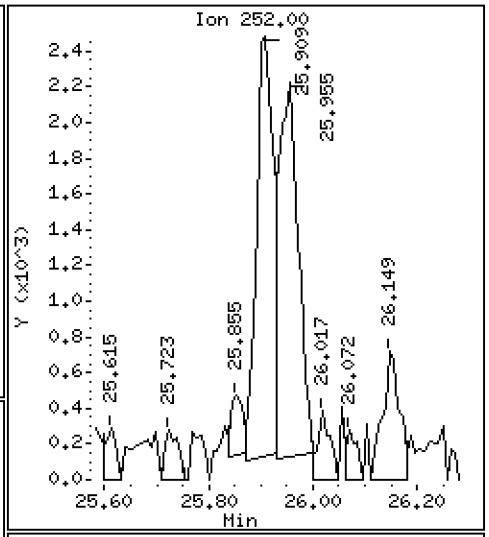
Concentration: 0.1880 ug/mL

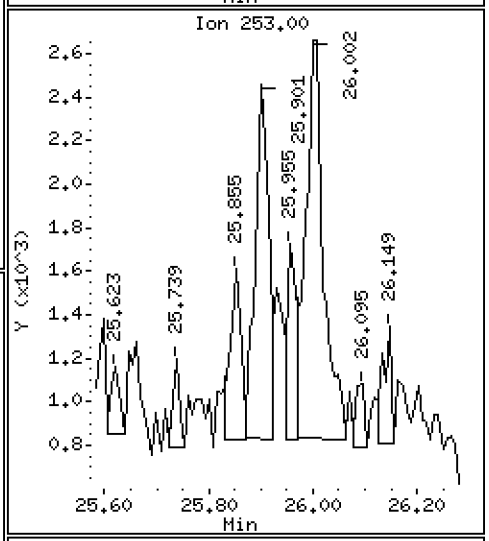


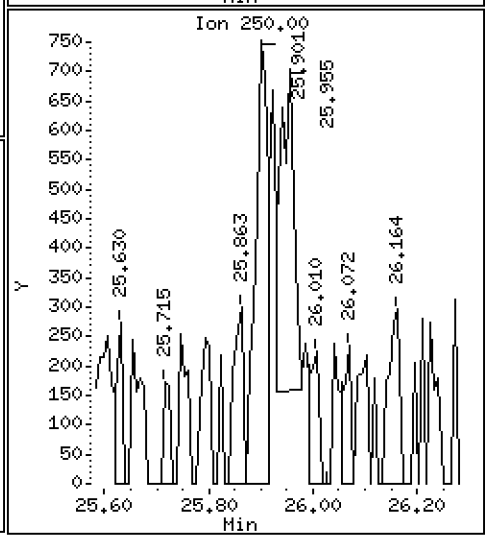












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

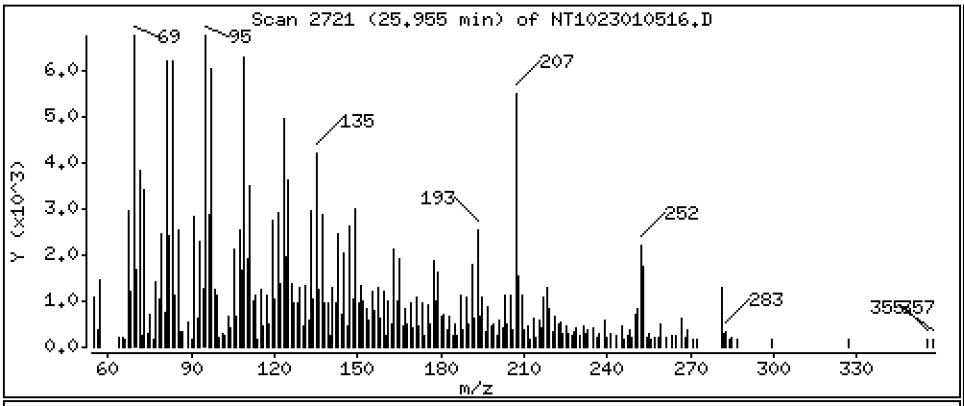
Operator: VTS

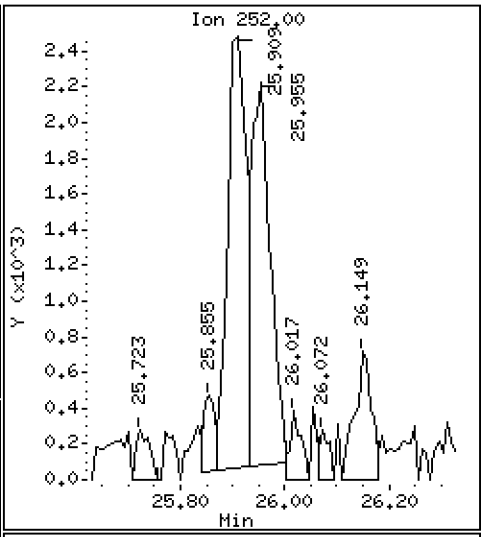
Column phase: ZB-5msi

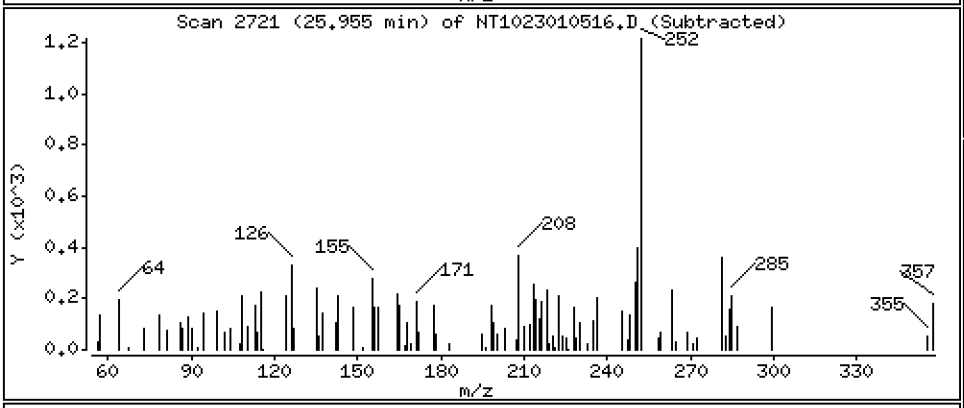
Column diameter: 0.25

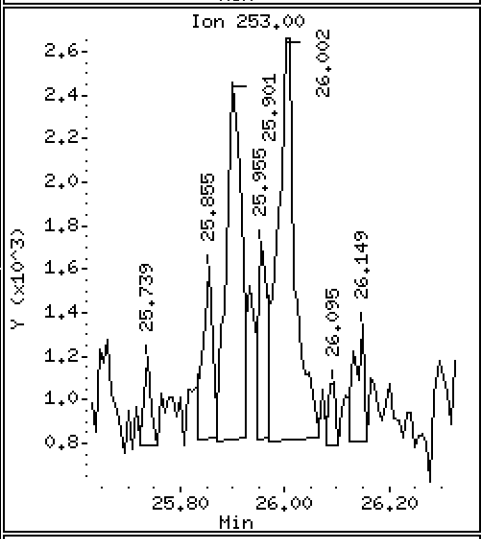
75 Benzo(k)fluoranthene

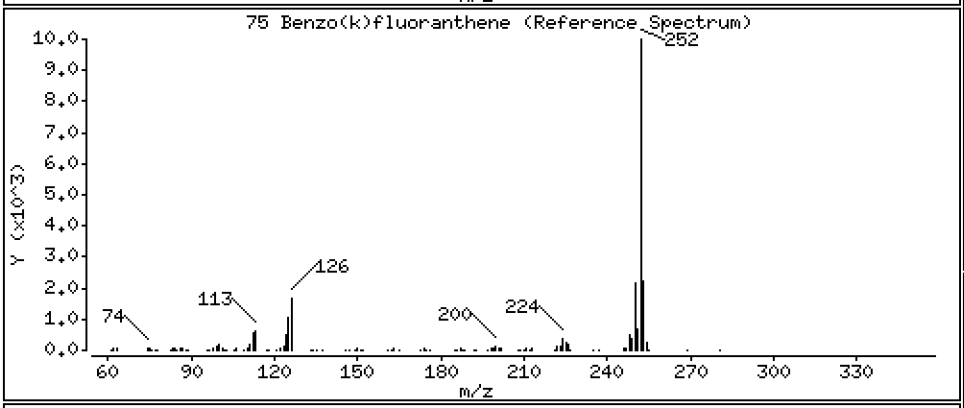
Concentration: 0.1914 ug/mL

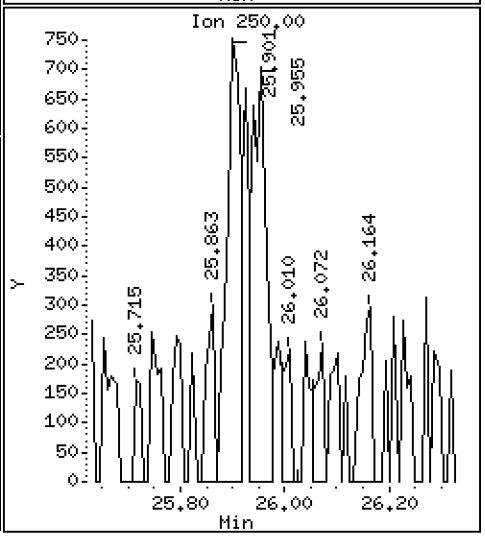


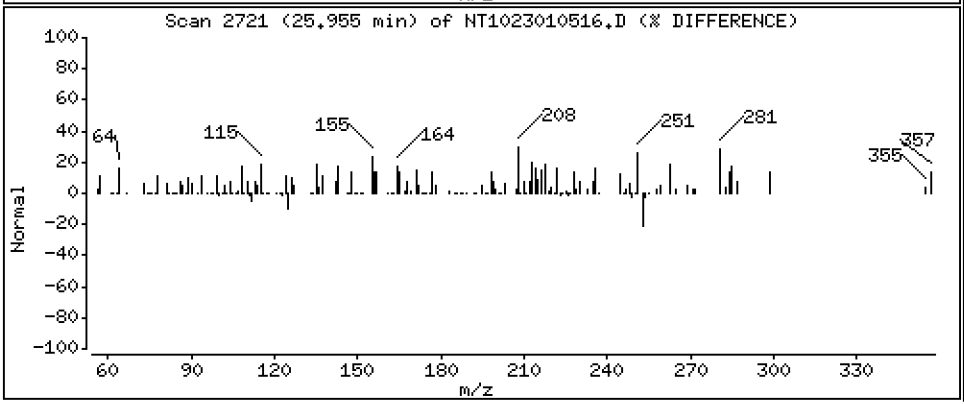












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

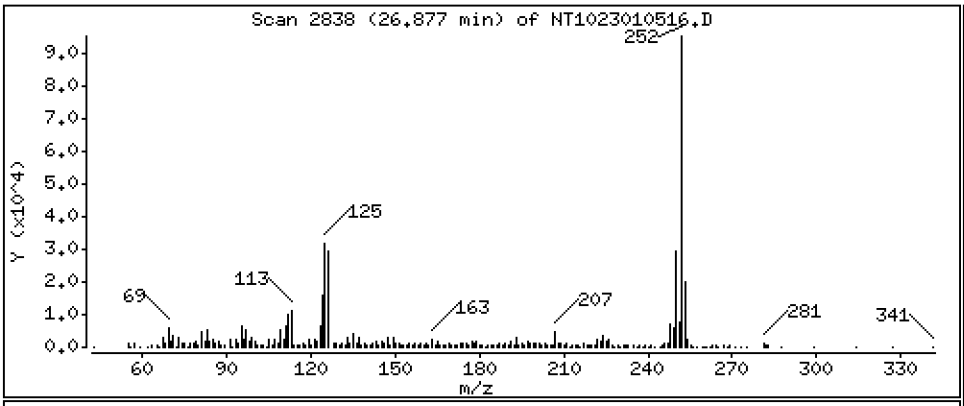
Operator: VTS

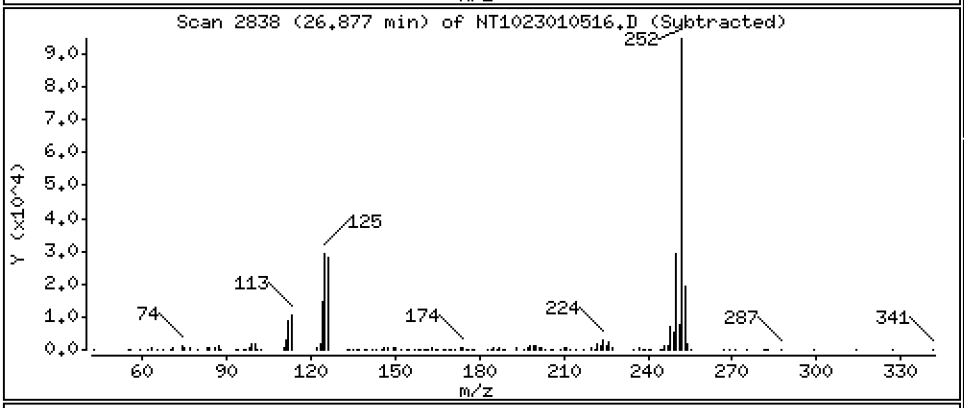
Column phase: ZB-5msi

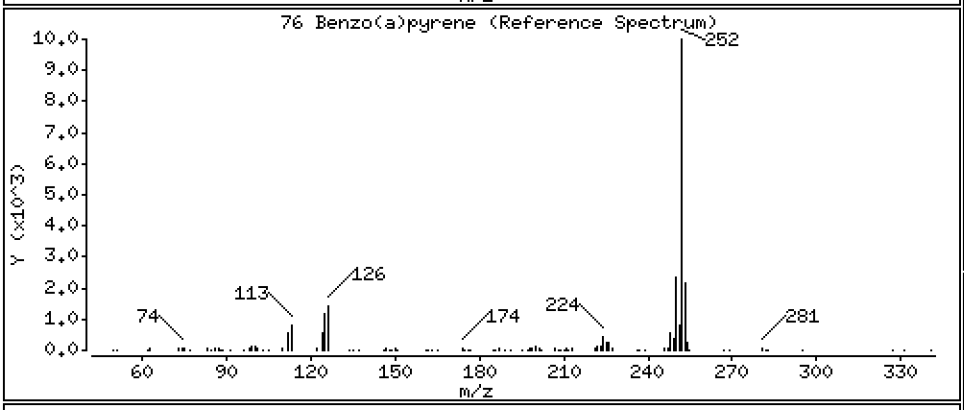
Column diameter: 0.25

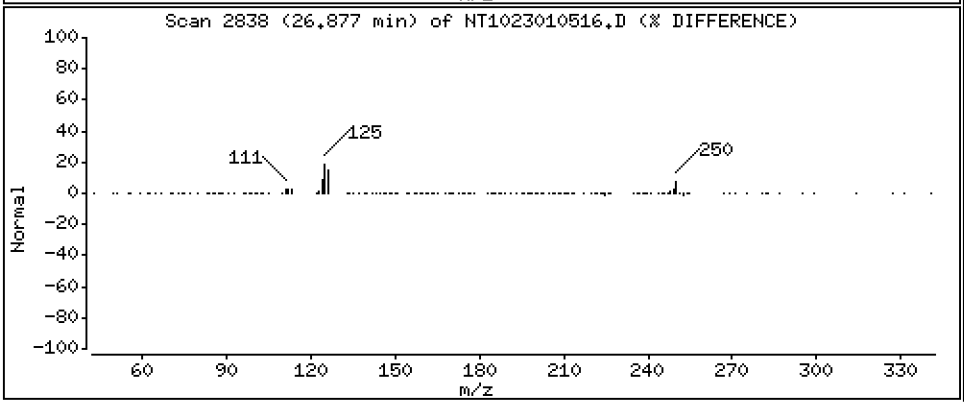
76 Benzo(a)pyrene

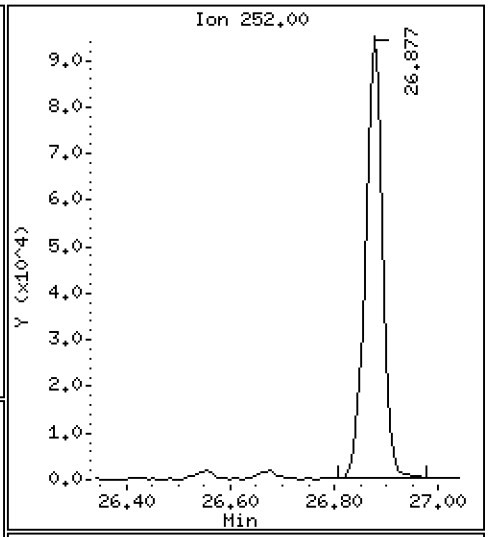
Concentration: 7.531 ug/mL

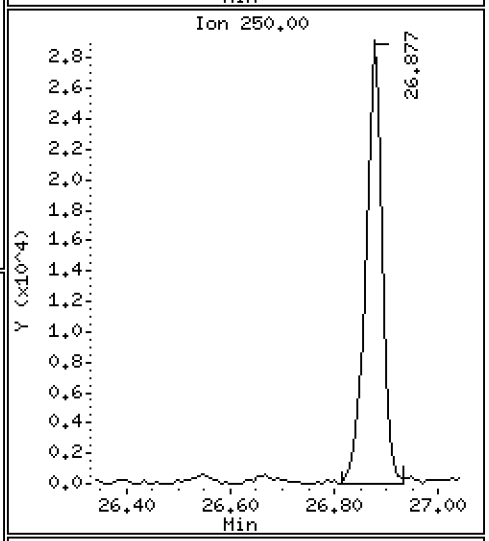


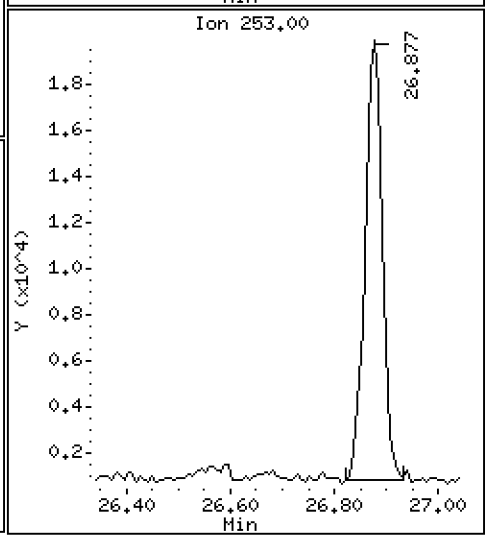












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

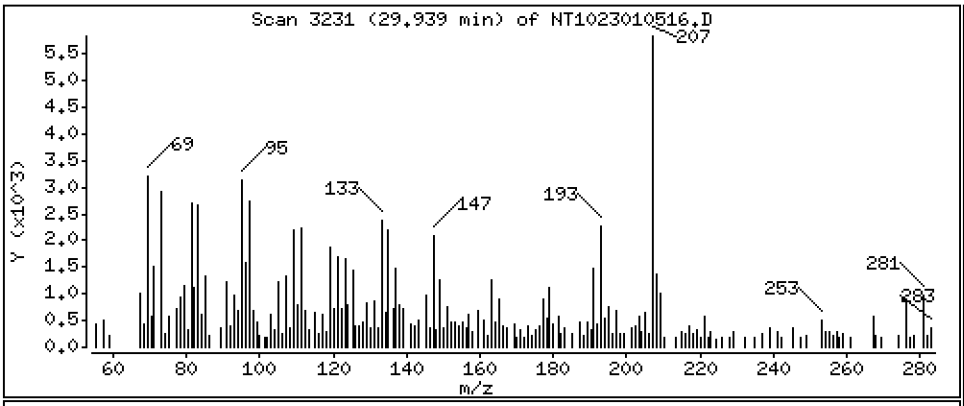
Operator: VTS

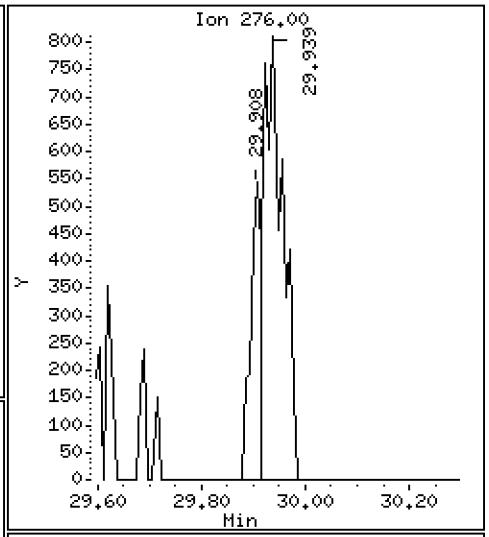
Column phase: ZB-5msi

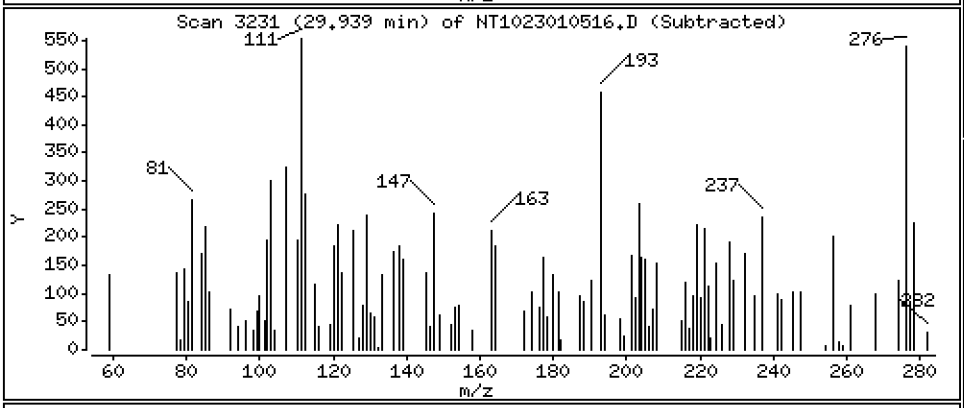
Column diameter: 0.25

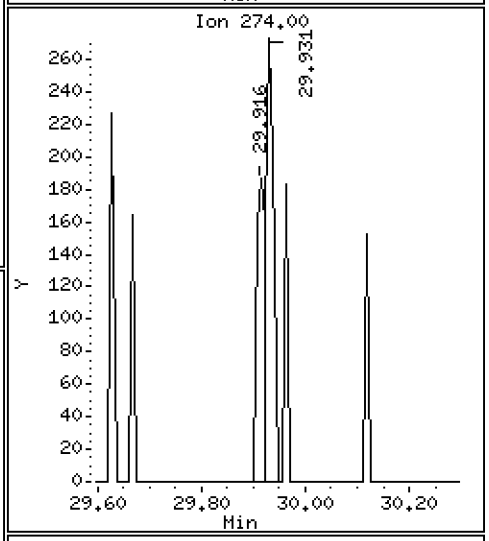
78 Indeno(1,2,3-cd)pyrene

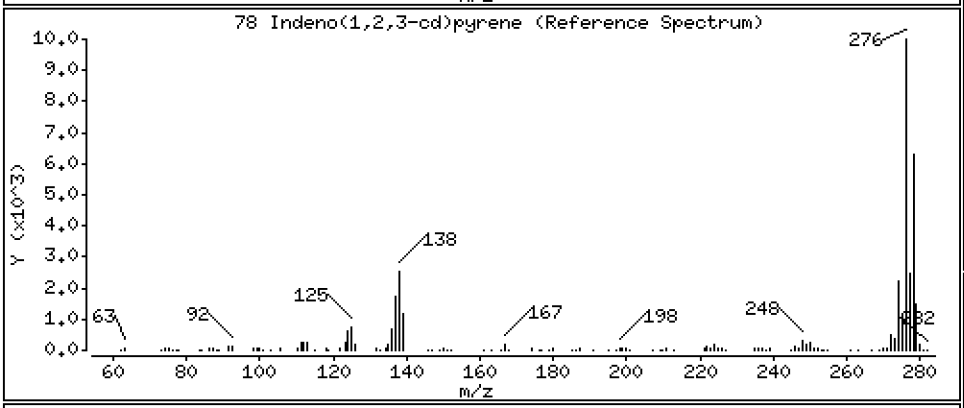
Concentration: 0.09149 ug/mL

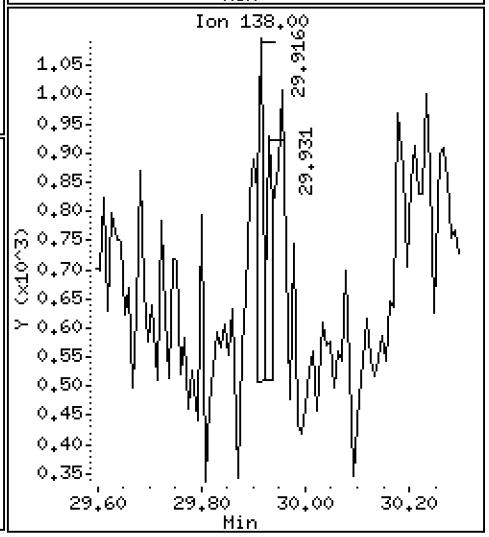


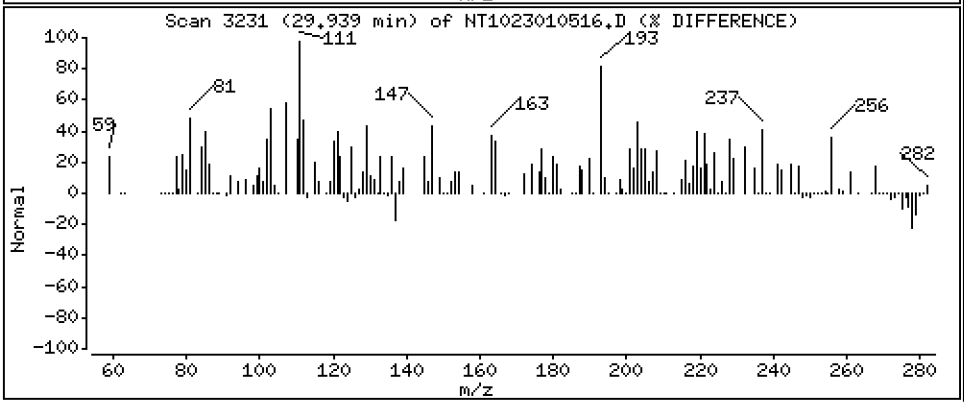












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

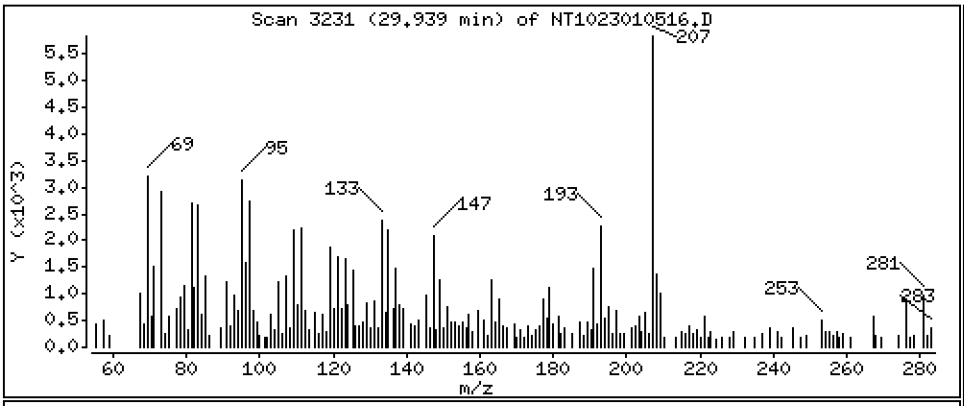
Operator: VTS

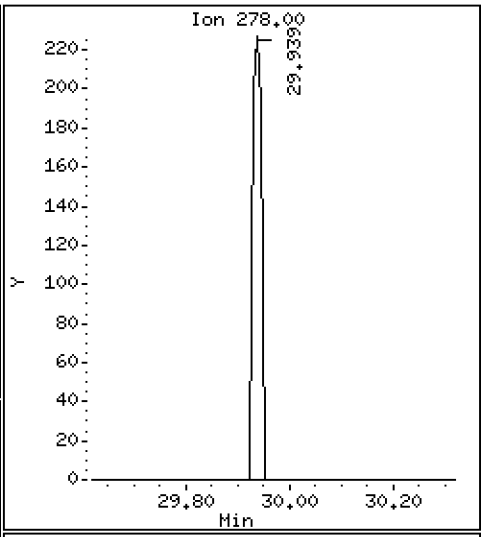
Column phase: ZB-5msi

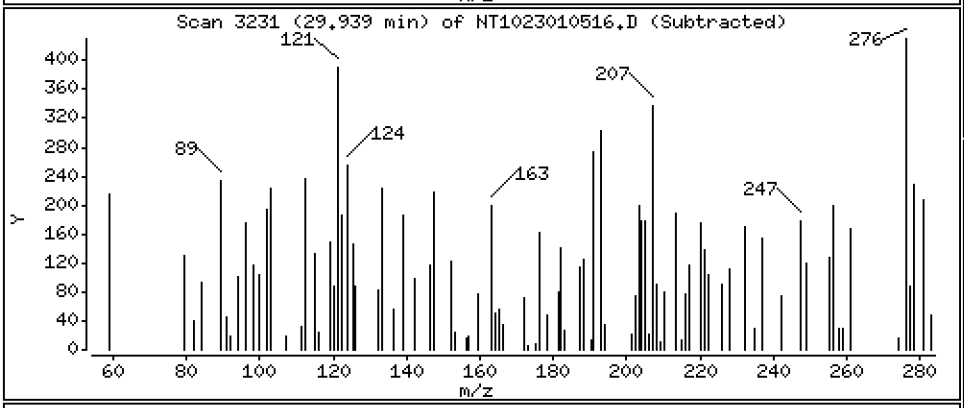
Column diameter: 0.25

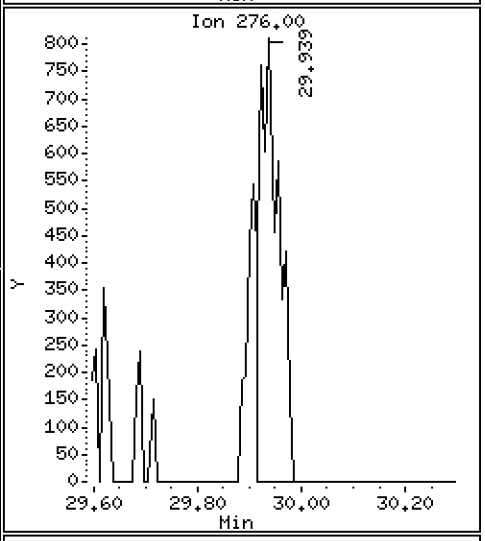
79 Dibenzo(a,h)anthracene

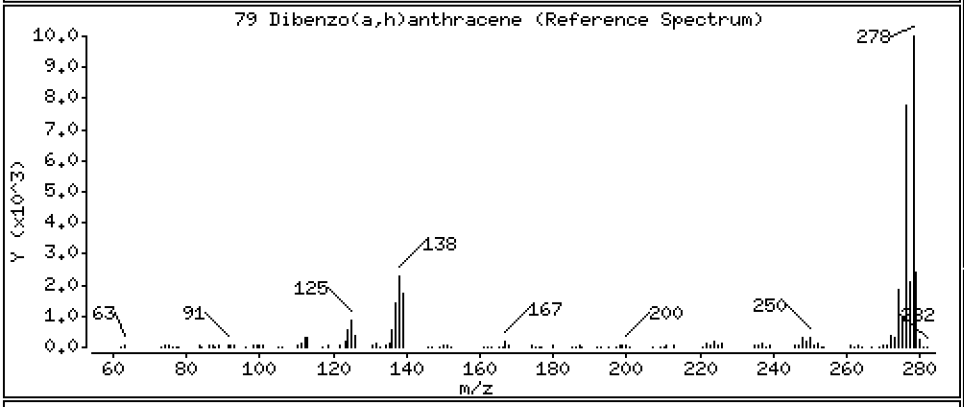
Concentration: 0.01577 ug/mL

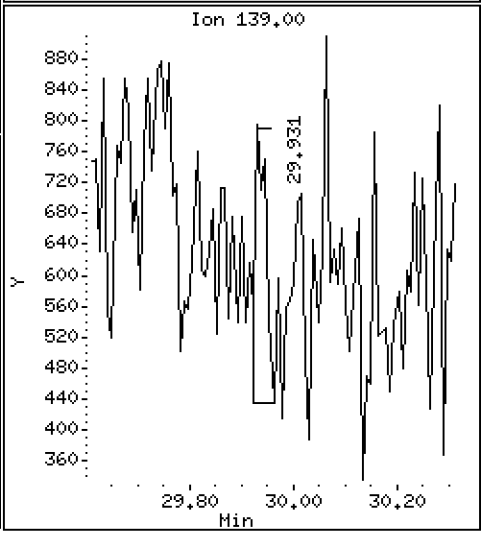


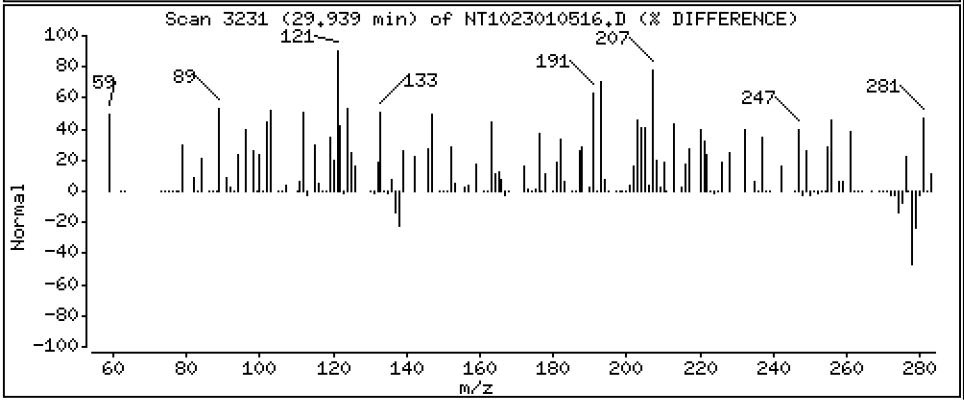












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

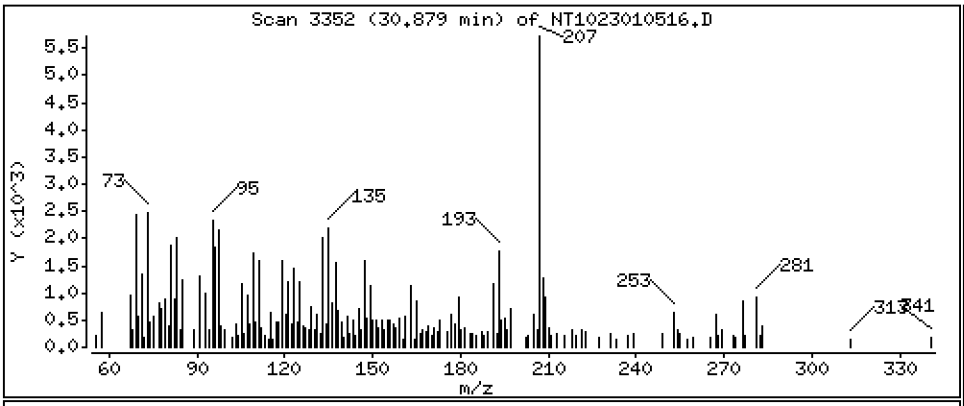
Operator: VTS

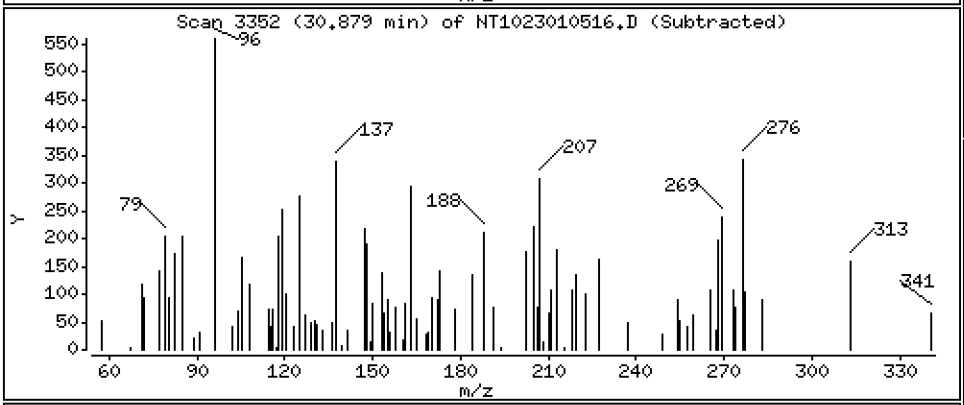
Column phase: ZB-5msi

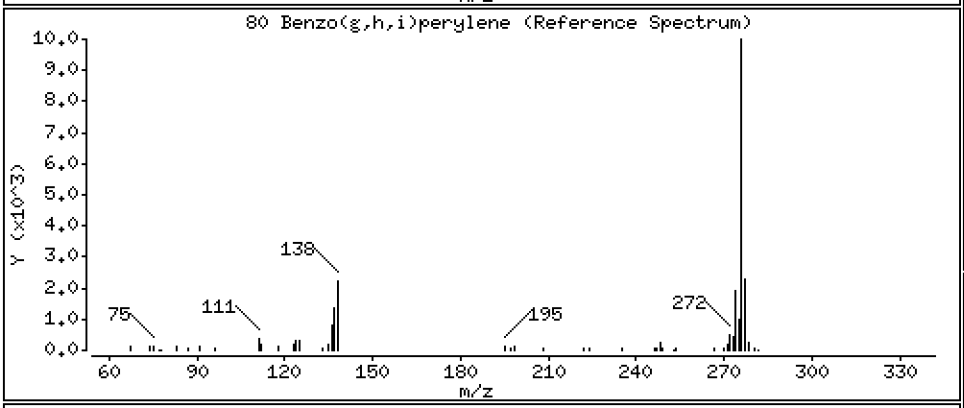
Column diameter: 0.25

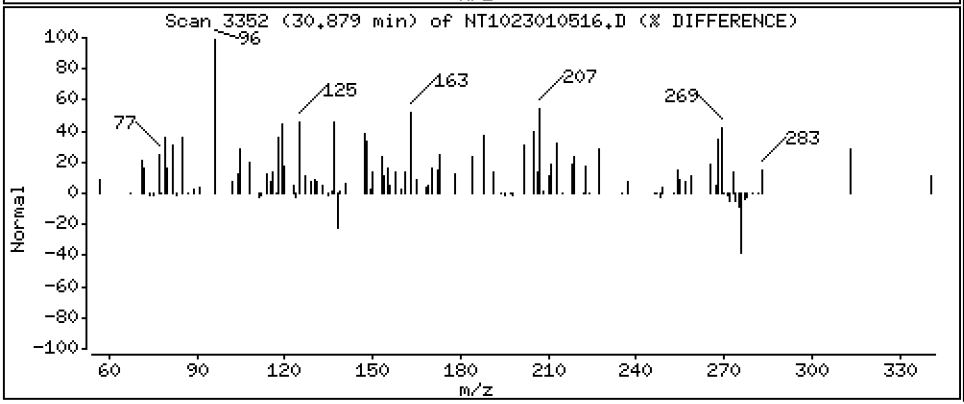
80 Benzo(g,h,i)perylene

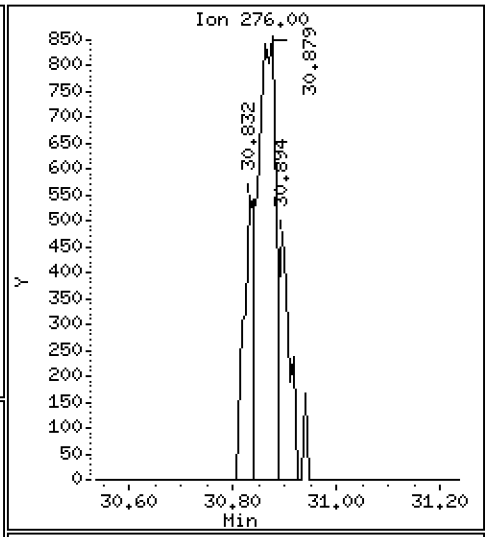
Concentration: 0.1127 ug/mL

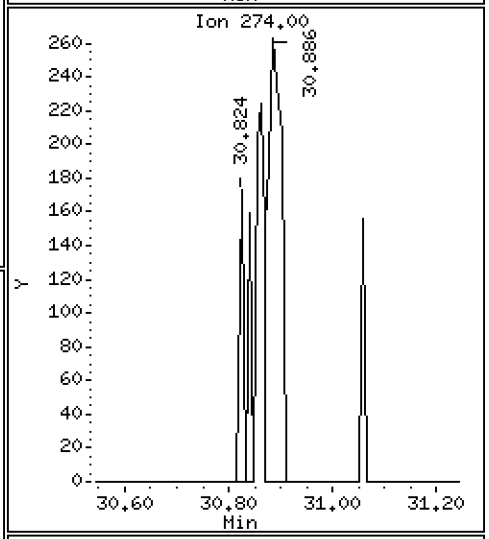


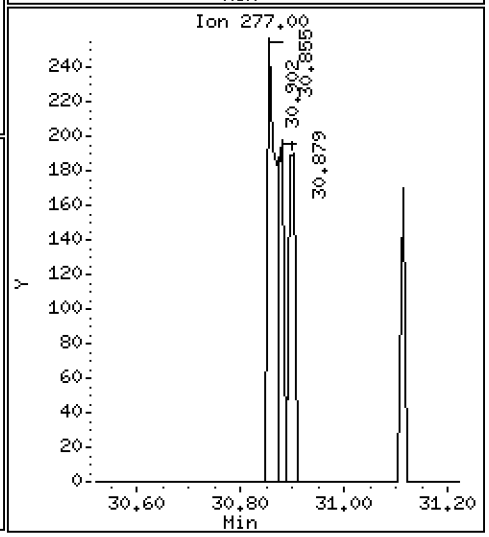












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

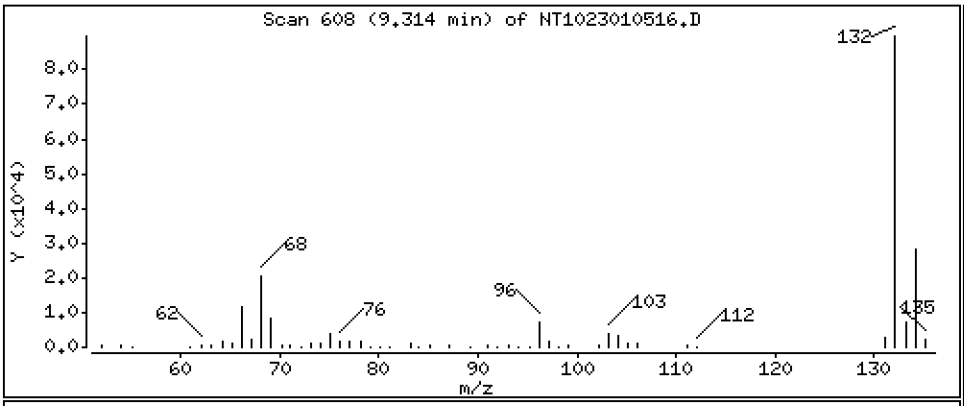
Operator: VTS

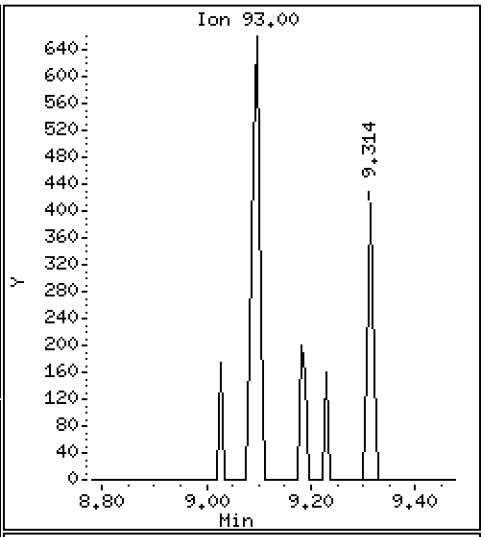
Column phase: ZB-5msi

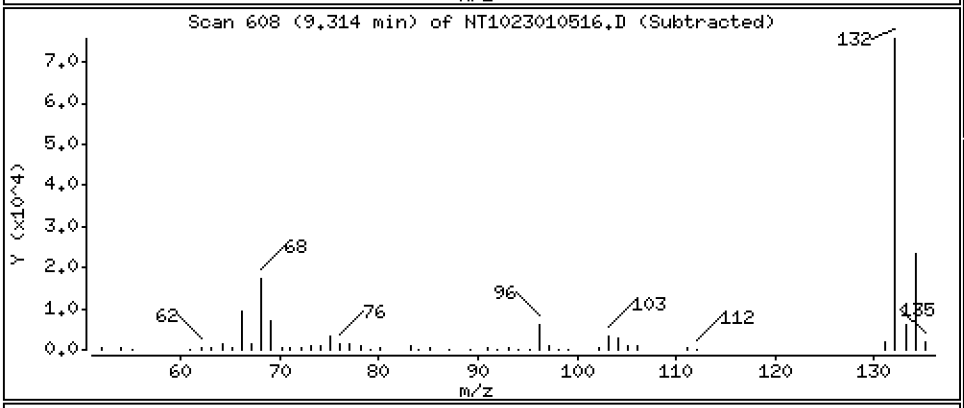
Column diameter: 0.25

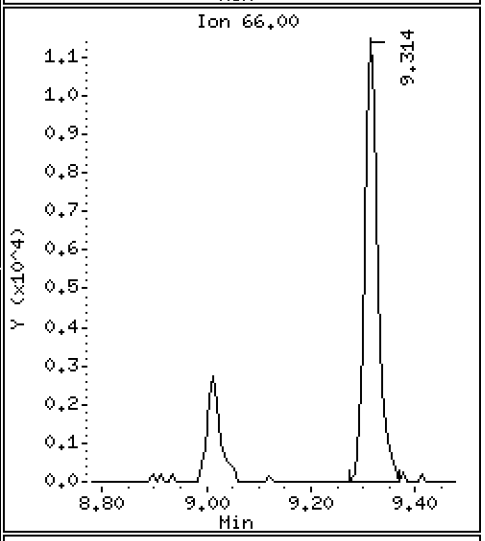
91 Aniline

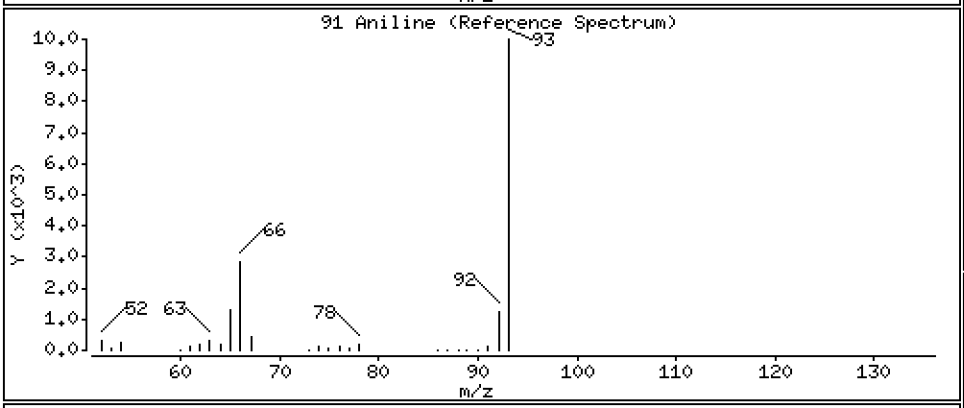
Concentration: 0.01241 ug/mL

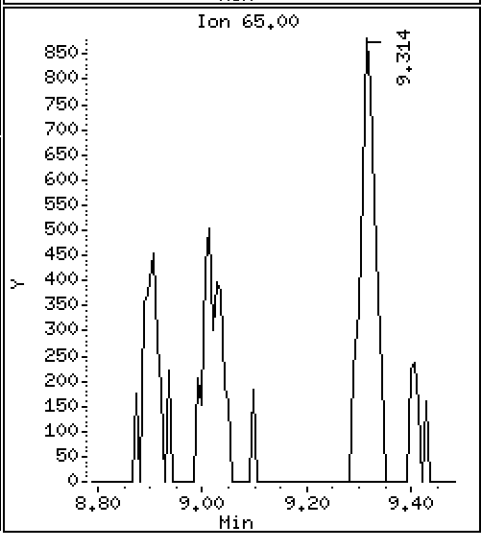


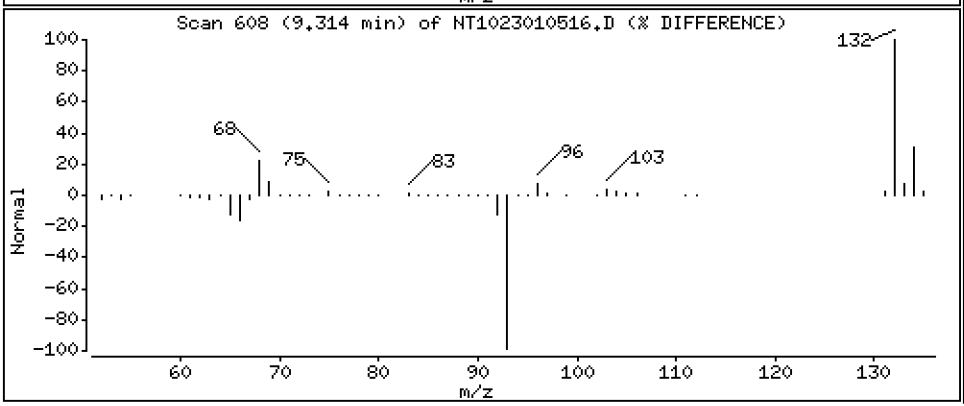












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

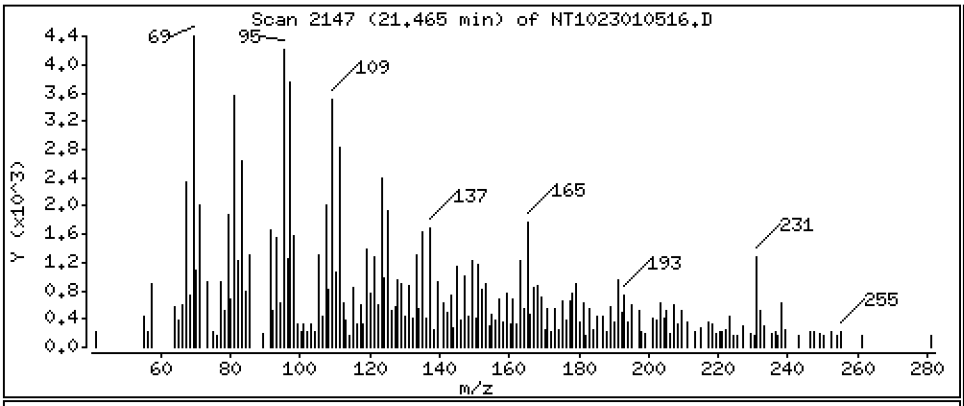
Operator: VTS

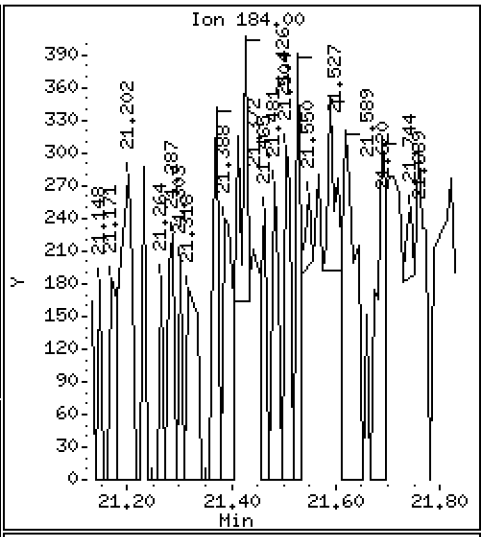
Column phase: ZB-5msi

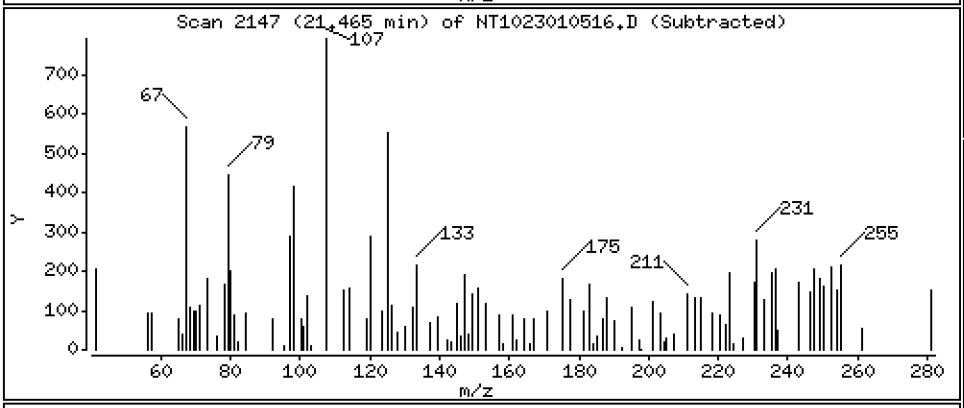
Column diameter: 0.25

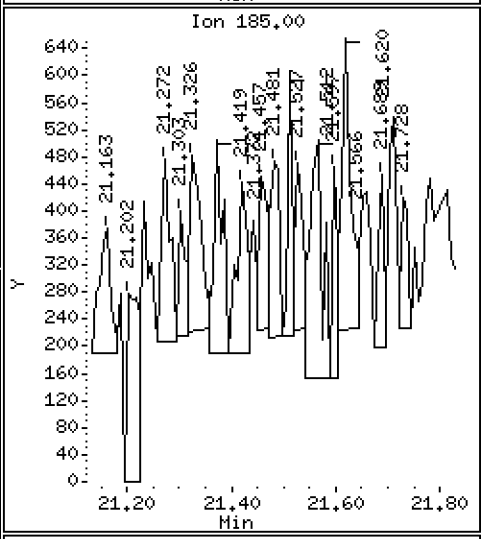
93 Benzidine

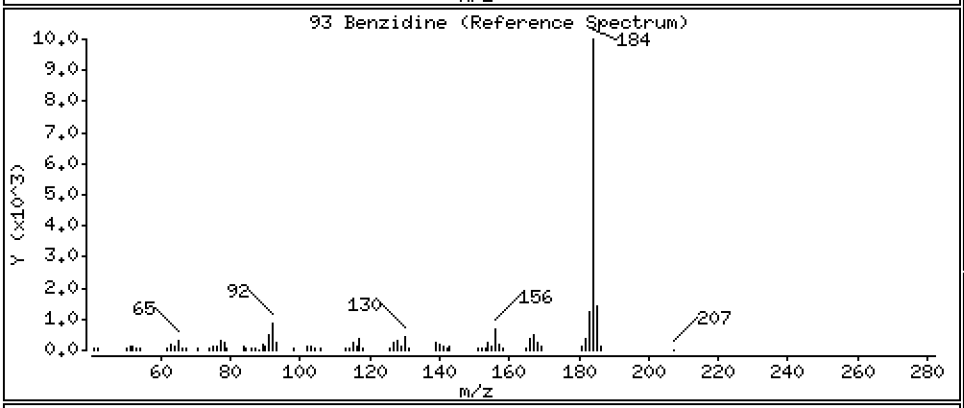
Concentration: 0.009857 ug/mL

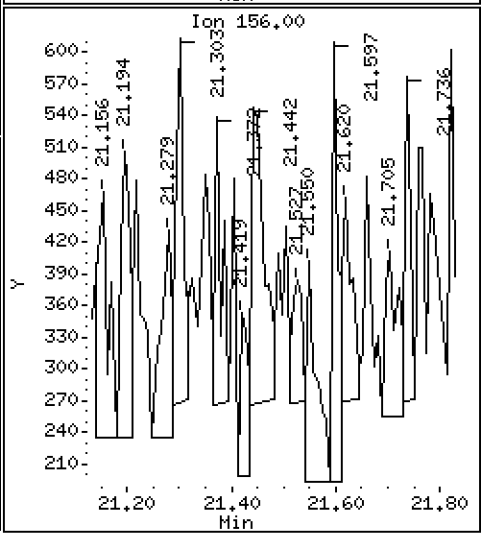


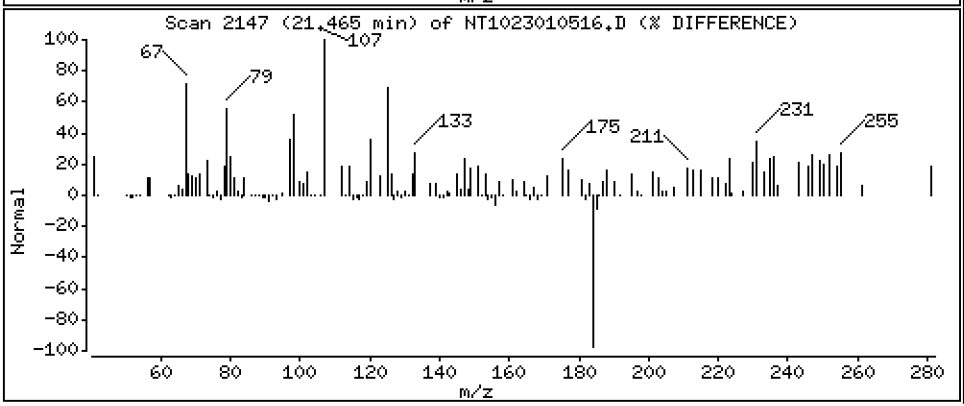












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

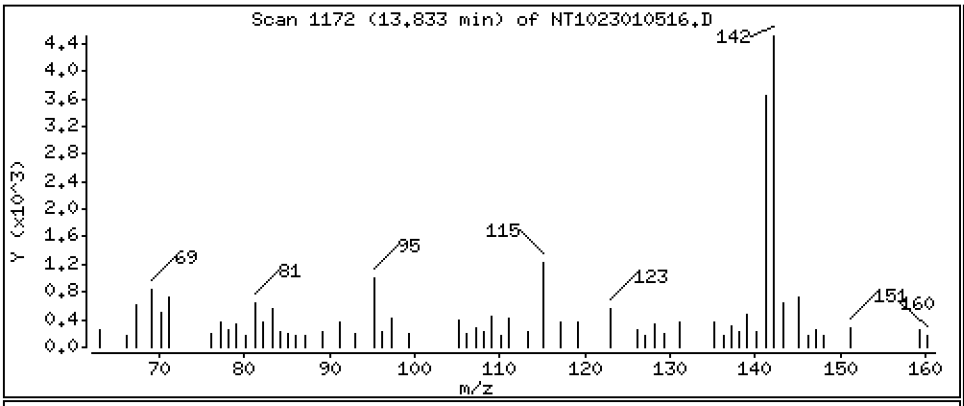
Operator: VTS

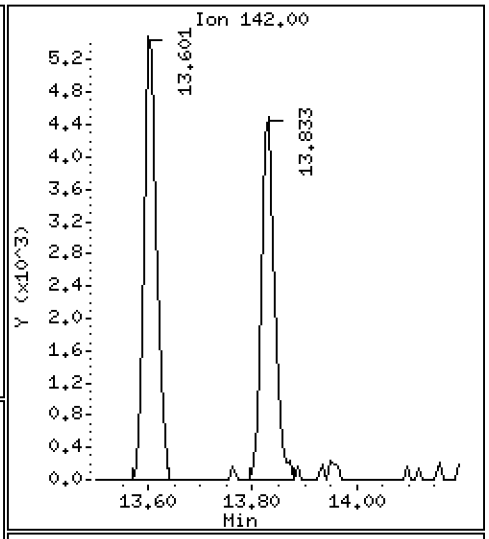
Column phase: ZB-5msi

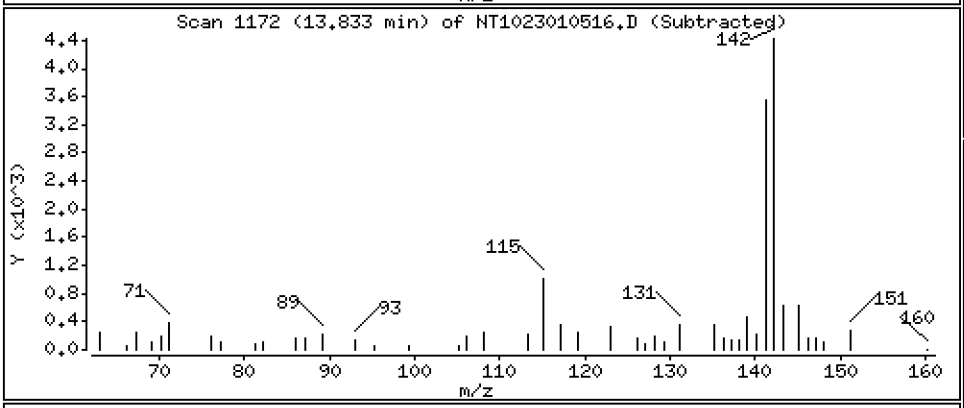
Column diameter: 0.25

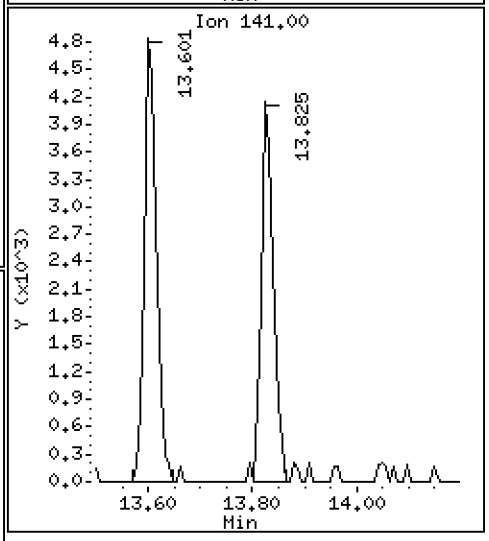
105 1-methylnaphthalene

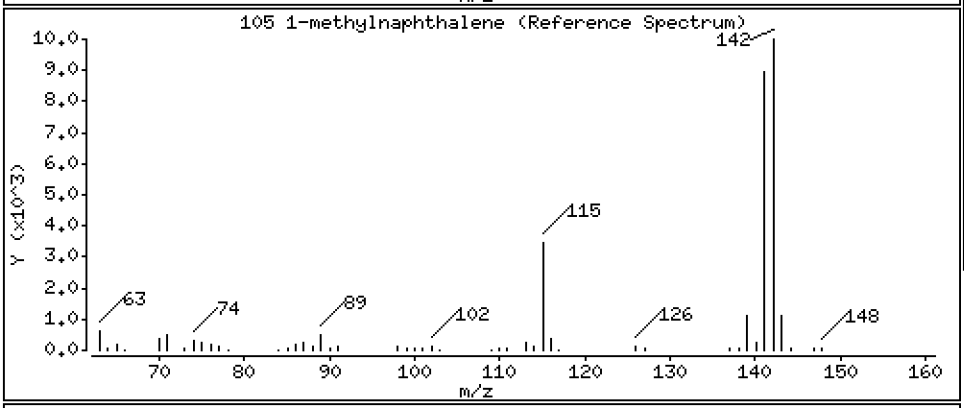
Concentration: 0.1455 ug/mL

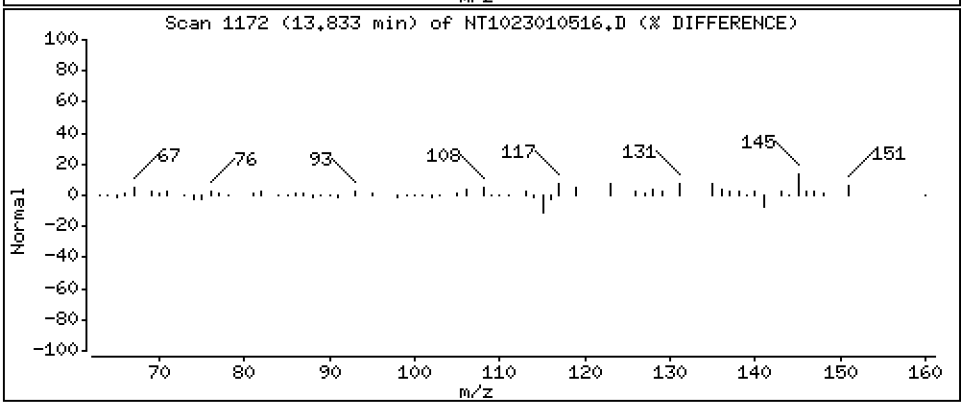












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

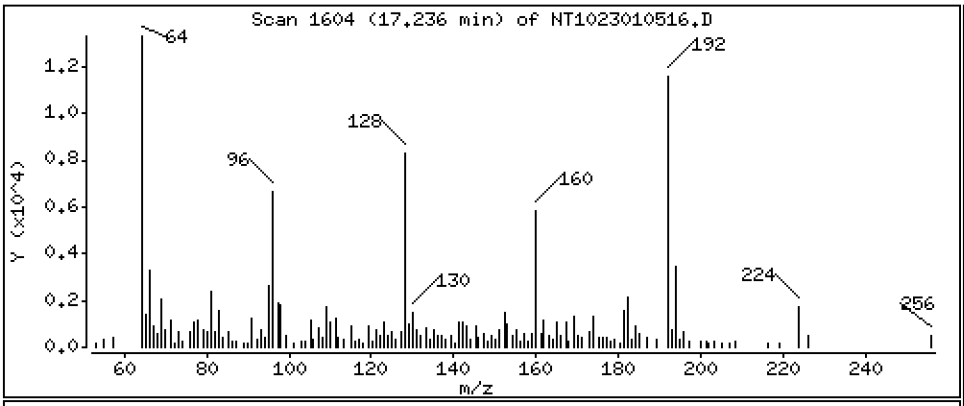
Operator: VTS

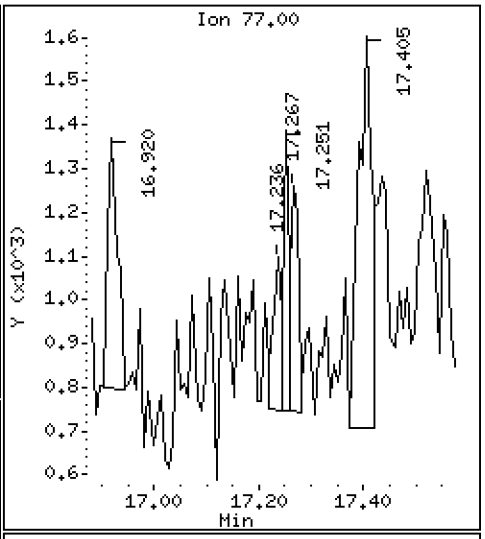
Column phase: ZB-5msi

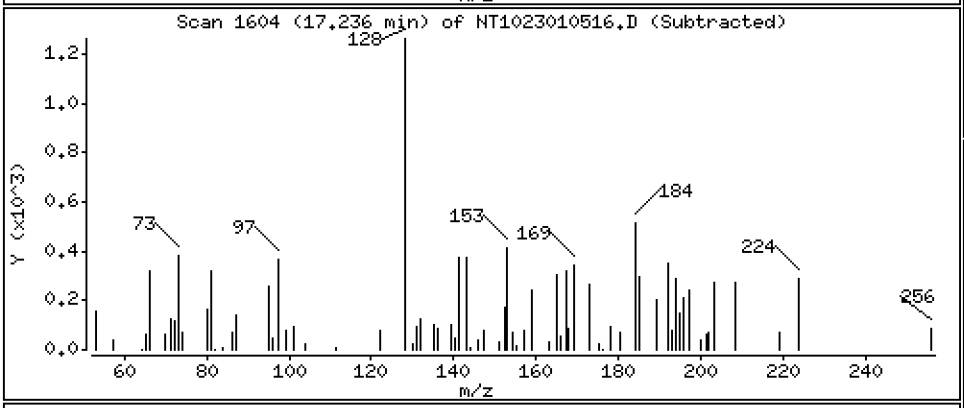
Column diameter: 0.25

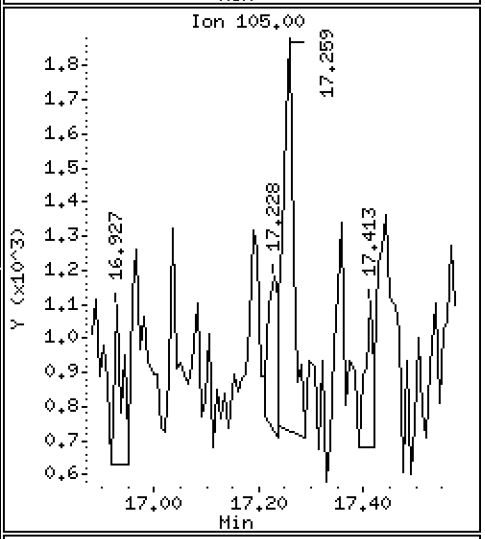
111 Azobenzene (1,2-DP-Hydrazine)

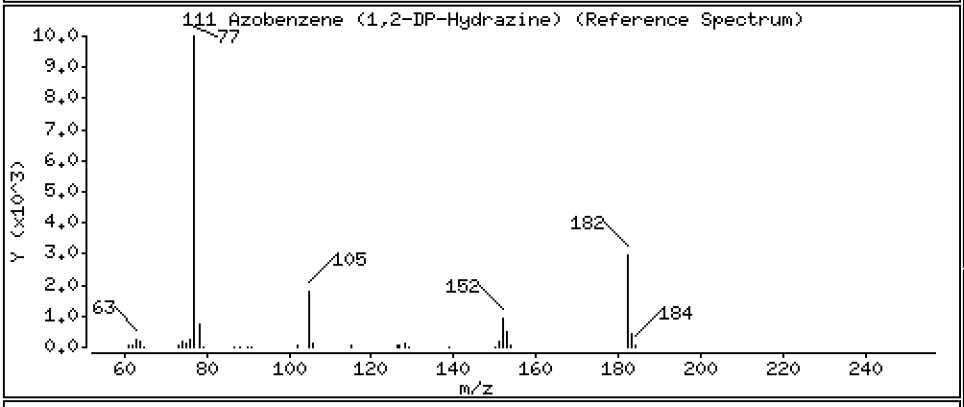
Concentration: 0.008363 ug/mL

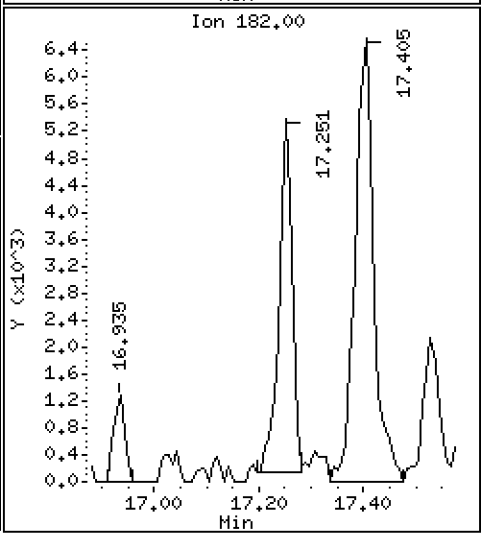


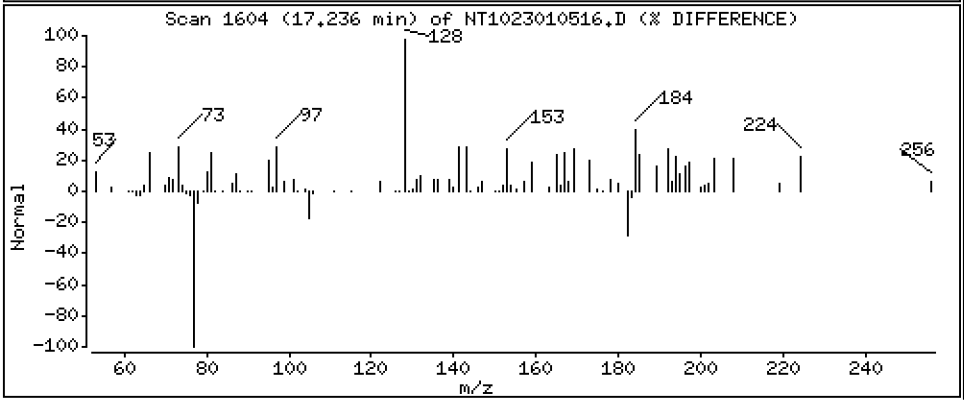












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Date : 05-JAN-2023 23:00

Client ID:

Instrument: nt10.i

Sample Info: 22L0246-14

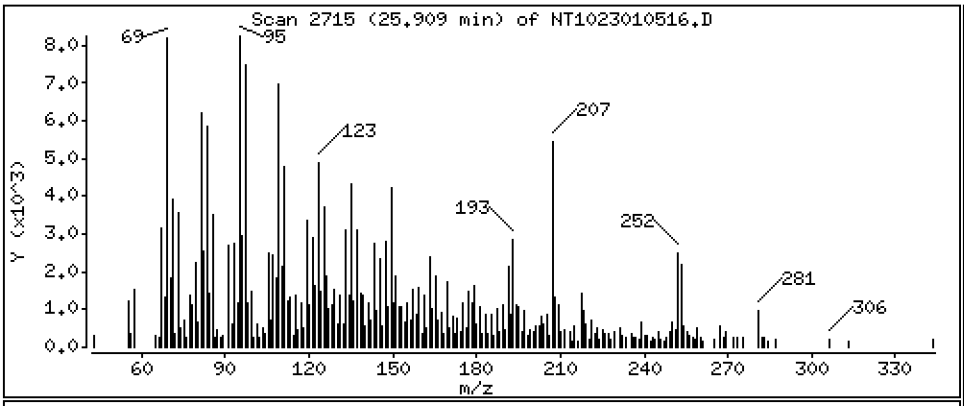
Operator: VTS

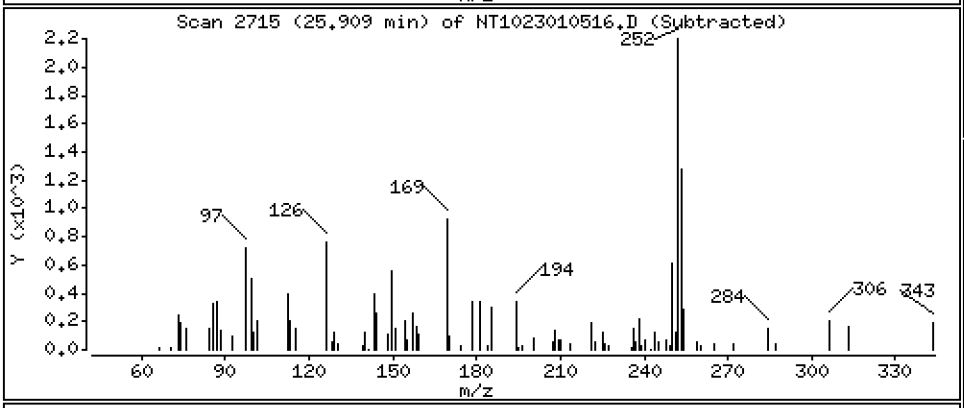
Column phase: ZB-5msi

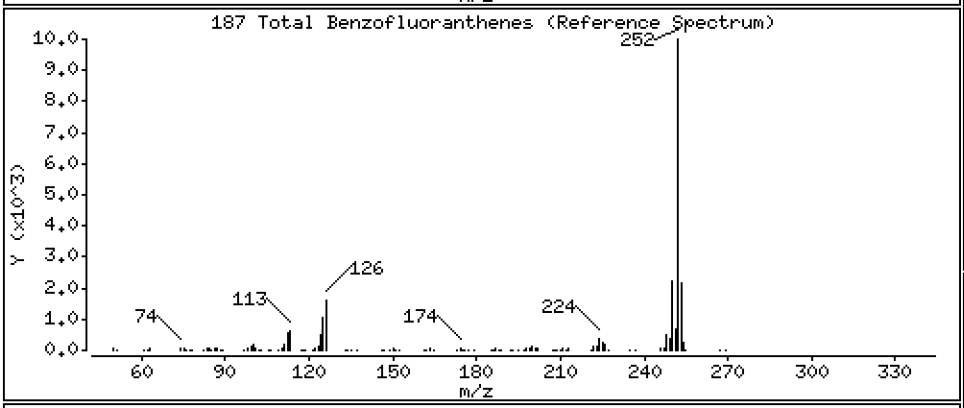
Column diameter: 0.25

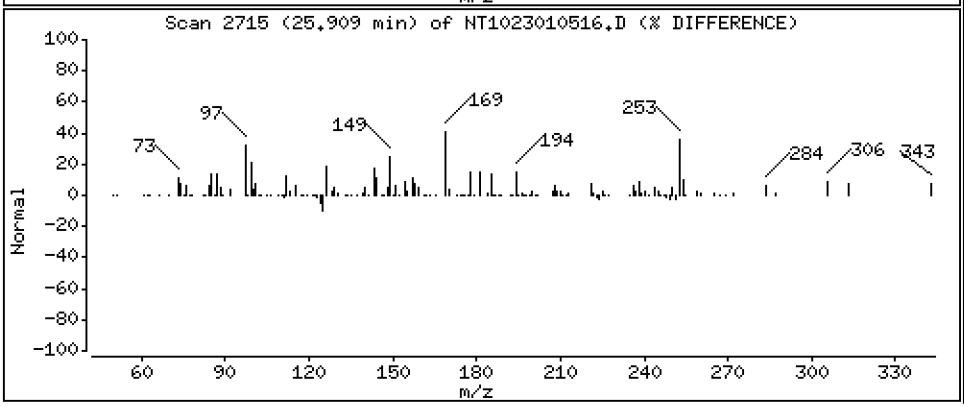
187 Total Benzofluoranthenes

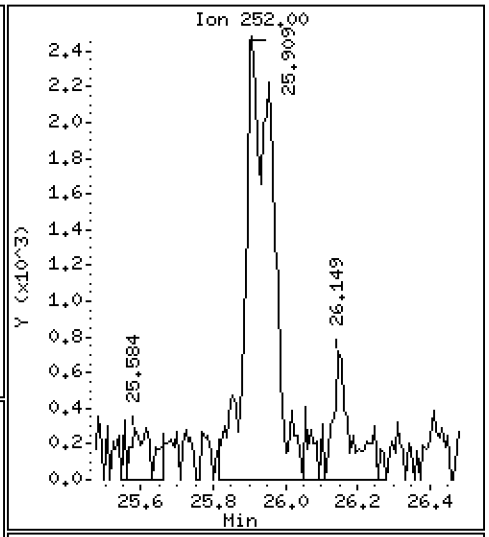
Concentration: 0.4558 ug/mL

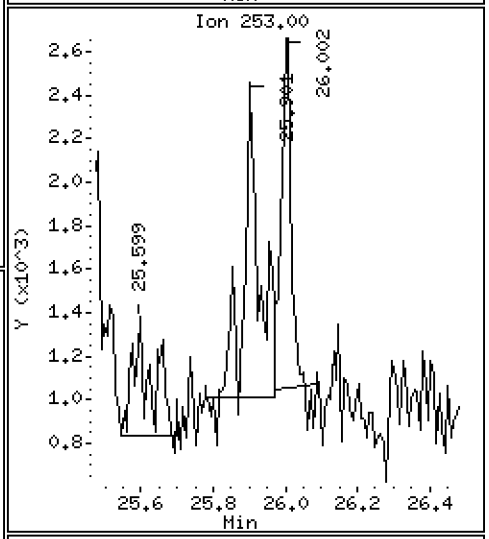


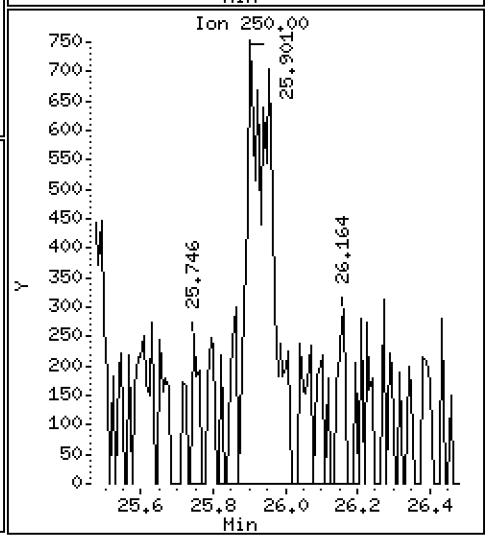












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010516.D
Lab Smp Id: 22L0246-14
Inj Date : 05-JAN-2023 23:00
Operator : VTS Inst ID: nt10.i
Smp Info : 22L0246-14
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1	2-Fluorophenol	112	7.444	7.429	(0.770)	135617	5.14736	5.147
$	2	Phenol-d5	99	9.012	9.012	(0.932)	157584	4.99597	4.996
	3	Phenol	94	9.035	9.036	(0.934)	2872	0.09702	0.09702
$	5	2-Chlorophenol-d4	132	9.313	9.321	(0.963)	162578	5.84712	5.847
	4	Bis(2-Chloroethyl)ether	93	9.313	9.205	(0.963)	344	0.01298	0.01298
	6	2-Chlorophenol	128	Compound Not Detected.					
	7	1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8	1,4-Dichlorobenzene-d4	152	9.669	9.685	(1.000)	80804	4.00000	
	9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10	1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	64149	3.70376	3.704
	12	1,2-Dichlorobenzene	146	Compound Not Detected.					
	11	Benzyl alcohol	108	9.933	9.941	(1.027)	1328	0.09630	0.09630
	14	2,2'-oxybis(1-Chloropropane)	121	9.925	10.244	(1.026)	597	0.07510	0.07510
	13	2-Methylphenol	108	10.158	10.158	(1.051)	228	0.01145	0.01145
	17	Hexachloroethane	117	Compound Not Detected.					
	16	N-Nitroso-di-n-propylamine	70	10.764	10.500	(1.113)	9850	0.90606	0.9061
	15	4-Methylphenol	108	10.414	10.422	(1.077)	2168	0.15885	0.1588
$	18	Nitrobenzene-d5	82	10.764	10.779	(0.884)	82350	3.89428	3.894
	19	Nitrobenzene	77	Compound Not Detected.					
	20	Isophorone	82	Compound Not Detected.					
	21	2-Nitrophenol	139	Compound Not Detected.					
	22	2,4-Dimethylphenol	107	11.713	11.476	(0.963)	699	0.02837	0.02837
	23	Bis(2-Chloroethoxy)methane	93	11.679	11.671	(0.960)	79	0.00370	0.003702
	24	Benzoic acid	105	11.645	11.671	(0.957)	666	0.06570	0.06570
	25	2,4-Dichlorophenol	162	Compound Not Detected.					
	26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27	Naphthalene-d8	136	12.169	12.185	(1.000)	319040	4.00000	
	28	Naphthalene	128	12.208	12.224	(1.003)	37790	0.53867	0.5387
	29	4-Chloroaniline	127	12.208	12.339	(1.003)	4931	0.18196	0.1820
	30	Hexachlorobutadiene	225	Compound Not Detected.					
	31	4-Chloro-3-methylphenol	107	13.267	13.291	(1.090)	406	0.02050	0.02050
	32	2-Methylnaphthalene	142	13.600	13.624	(1.118)	9217	0.16611	0.1661
	33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35 2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36 2-Fluorobiphenyl	172	14.374	14.398	(0.910)	195003	4.16329	4.163
	37 2-Chloronaphthalene	162	Compound Not Detected.					
	38 2-Nitroaniline	65	14.831	14.862	(0.939)	266	0.04759	0.04759
	39 Dimethylphthalate	163	15.280	15.280	(0.968)	2212	0.05802	0.05802
	40 Acenaphthylene	152	15.481	15.497	(0.980)	14137	0.23515	0.2352
	41 2,6-Dinitrotoluene	165	15.411	15.427	(0.976)	777	0.08972	0.08972
*	42 Acenaphthene-d10	164	15.790	15.814	(1.000)	126430	4.00000	
	43 3-Nitroaniline	138	15.721	15.721	(0.996)	576	0.09650	0.09650
	44 Acenaphthene	153	15.852	15.876	(1.004)	5658	0.16959	0.1696
	45 2,4-Dinitrophenol	184	Compound Not Detected.					
	46 Dibenzofuran	168	16.185	16.208	(1.025)	8347	0.16465	0.1647
	47 4-Nitrophenol	109	15.991	16.038	(1.013)	137	0.03046	0.03046
	48 2,4-Dinitrotoluene	165	16.192	16.247	(1.025)	294	0.02530	0.02530
	50 Diethylphthalate	149	16.718	16.742	(1.059)	20640	0.51328	0.5133
	49 Fluorene	166	16.904	16.919	(1.070)	16983	0.22819	0.2282
	51 4-Chlorophenyl-phenylether	204	17.127	16.896	(1.085)	191	0.00799	0.007990
	52 4-Nitroaniline	138	16.989	17.004	(1.076)	285	0.01731	0.01731
	53 4,6-Dinitro-2-methylphenol	198	17.297	17.097	(0.918)	85	0.00991	0.009913
	54 N-Nitrosodiphenylamine	169	17.181	17.143	(0.912)	4276	0.11334	0.1133
$	55 2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	17879	6.90048	6.900
	56 4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57 Hexachlorobenzene	284	Compound Not Detected.					
	58 Pentachlorophenol	266	Compound Not Detected.					
*	59 Phenanthrene-d10	188	18.850	18.865	(1.000)	203822	4.00000	
	60 Phenanthrene	178	18.896	18.919	(1.002)	31524	0.63750	0.6375
	61 Anthracene	178	18.989	19.005	(1.007)	11094	0.22982	0.2298
	62 Carbazole	167	19.298	19.322	(1.024)	796	0.01530	0.01530
	63 Di-n-butylphthalate	149	20.041	20.072	(1.063)	6249	0.09156	0.09156
	64 Fluoranthene	202	21.271	21.271	(0.892)	39370	0.89221	0.8922
	65 Pyrene	202	21.681	21.689	(0.909)	40726	0.91872	0.9187
$	66 Terphenyl-d14	244	21.929	21.952	(0.919)	97086	3.58976	3.590
	67 Butylbenzylphthalate	149	22.827	22.851	(0.957)	713	0.03016	0.03016
	68 Benzo(a)anthracene	228	23.826	23.842	(0.999)	9017	0.29902	0.2990
*	69 Chrysene-d12	240	23.857	23.873	(1.000)	111613	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.780	23.780	(0.997)	75	0.00676	0.006762
	71 Chrysene	228	23.896	23.919	(1.002)	7950	0.28776	0.2878
	72 bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	6685	0.15677	0.1568
*	134 Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	277666	4.00000	
	73 Di-n-octylphthalate	149	24.887	24.941	(0.999)	923	0.01437	0.01437
	74 Benzo(b)fluoranthene	252	25.909	25.932	(0.966)	5828	0.18799	0.1880
	75 Benzo(k)fluoranthene	252	25.955	25.978	(0.968)	5780	0.19136	0.1914
	76 Benzo(a)pyrene	252	26.876	26.691	(1.002)	222623	7.53053	7.531
*	77 Perylene-d12	264	26.814	26.822	(1.000)	86063	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.938	29.946	(1.117)	2126	0.09149	0.09149
	79 Dibenzo(a,h)anthracene	278	29.938	29.970	(1.117)	288	0.01577	0.01577
	80 Benzo(g,h,i)perylene	276	30.878	30.886	(1.152)	2161	0.11272	0.1127
	90 N-Nitrosodimethylamine	74	Compound Not Detected.					
	91 Aniline	93	9.313	9.128	(0.963)	344	0.01241	0.01241
	93 Benzidine	184	21.465	21.480	(0.900)	202	0.00986	0.009857
	103 Pyridine	79	Compound Not Detected.					
	105 1-methylnaphthalene	142	13.832	13.848	(1.137)	7888	0.14549	0.1455
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.235	17.228	(1.091)	417	0.00836	0.008363

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.978	(0.966)	13379	0.45578	0.4558
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010516.D
Lab Smp Id: 22L0246-14
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	80804	-1.13
27 Naphthalene-d8	307034	153517	614068	319040	3.91
42 Acenaphthene-d10	140557	70279	281114	126430	-10.05
59 Phenanthrene-d10	243620	121810	487240	203822	-16.34
69 Chrysene-d12	144852	72426	289704	111613	-22.95
134 Di-n-octylphthala	387178	193589	774356	277666	-28.28
77 Perylene-d12	106683	53342	213366	86063	-19.33

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.86	-0.07
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.81	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010516.D

Lab ID: 22L0246-14
nt10.i, ABN.m, 05-JAN-2023 23:00

RT	CO-ELUTION COMPOUNDS
29.939	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
29.939	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.950	0.0127	Bis(2-Chloroethyl)ether
1.026	1.058	-0.0312	2,2'-oxybis(1-Chloropropane)
1.113	1.084	0.0290	N-Nitroso-di-n-propylamine
0.963	0.942	0.0207	2,4-Dimethylphenol
1.003	1.013	-0.0095	4-Chloroaniline
1.085	1.068	0.0162	4-Chlorophenyl-phenylether
0.918	0.906	0.0114	4,6-Dinitro-2-methylphenol
1.002	0.995	0.0072	Benzo(a)pyrene
0.963	0.943	0.0207	Aniline

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809B

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-43 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010614.D
% Solids:	61.33	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/06/23 19:26
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	16.35 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

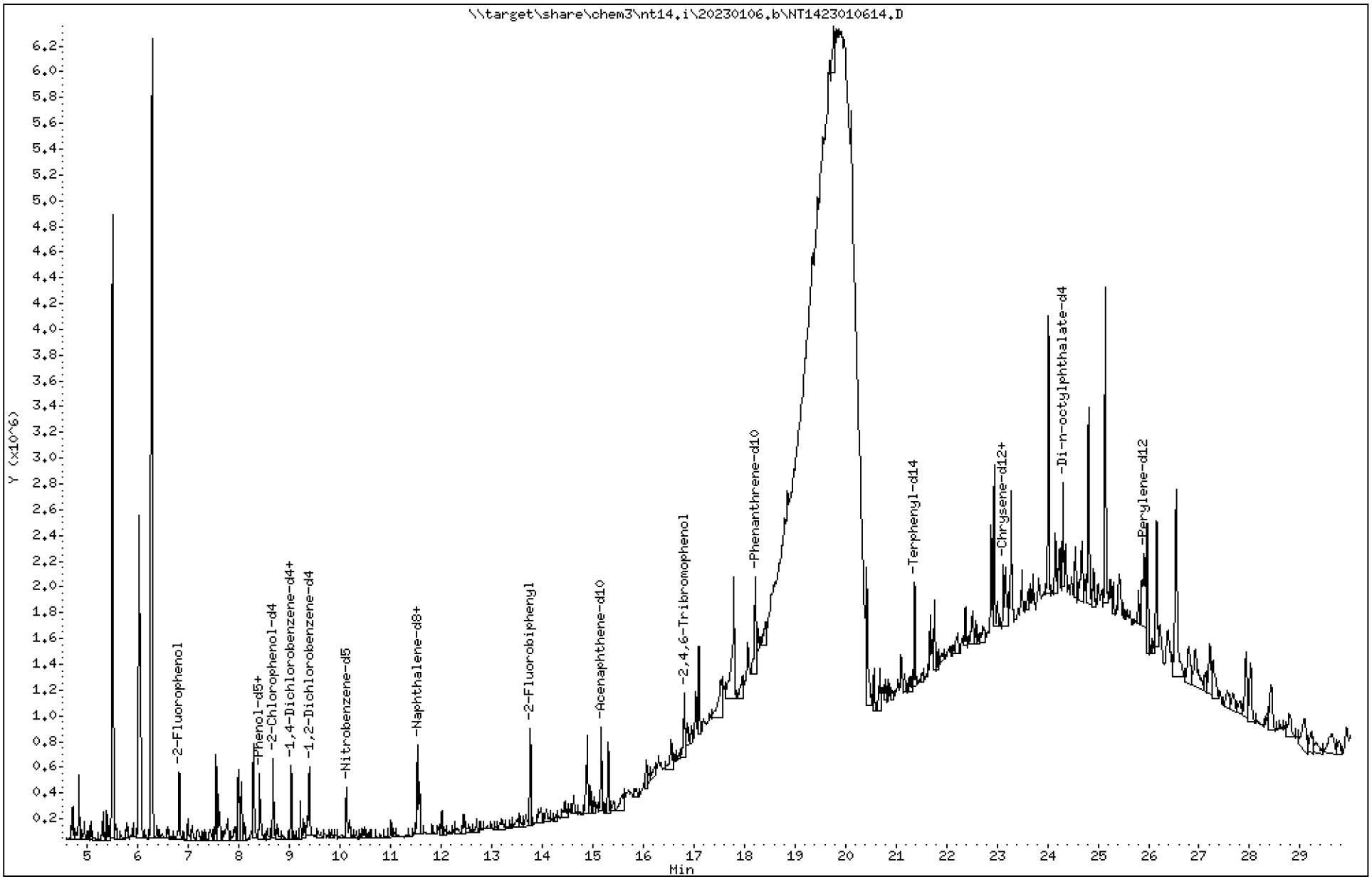
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	19.9	U	9.4	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	498.63	505	101	37 - 120	Q

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D
Date : 06-JAN-2023 19:26
Client ID:
Sample Info: 22L0246-43

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

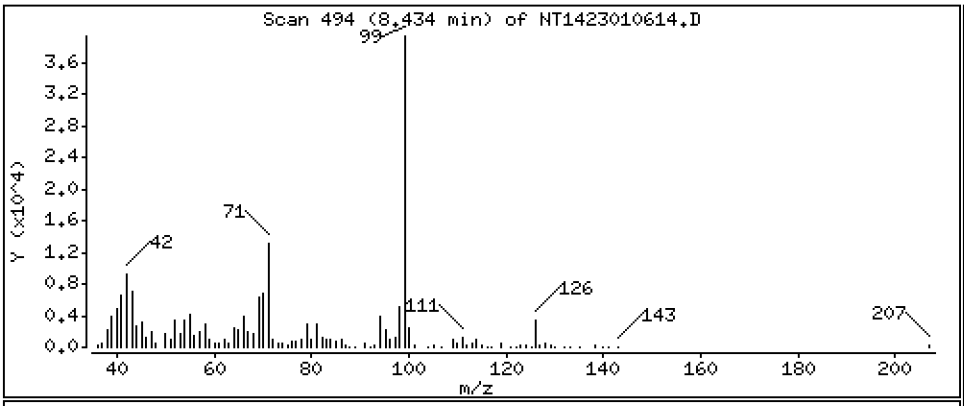
Operator: VTS

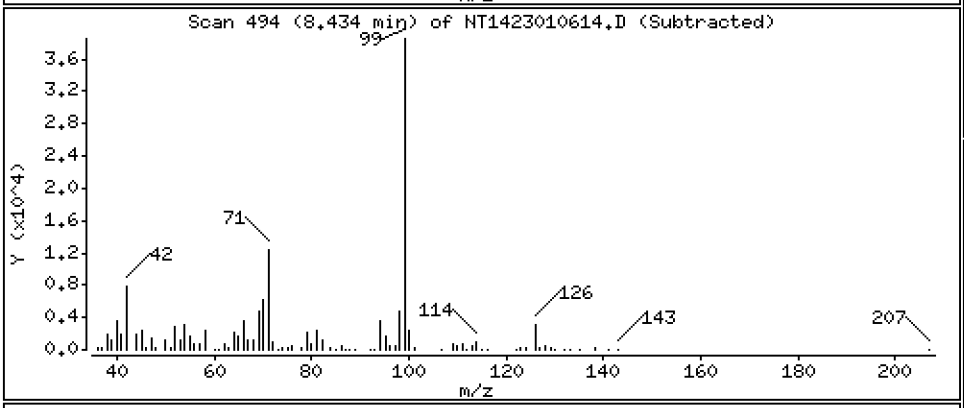
Column phase: ZB-5msi

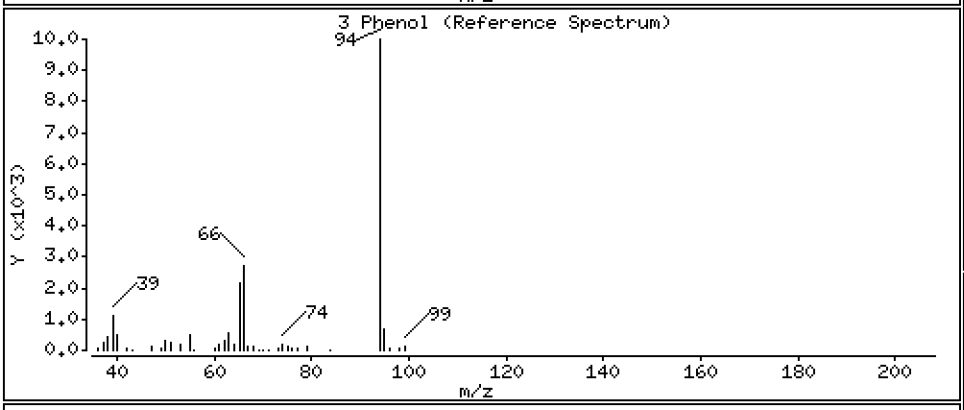
Column diameter: 0.25

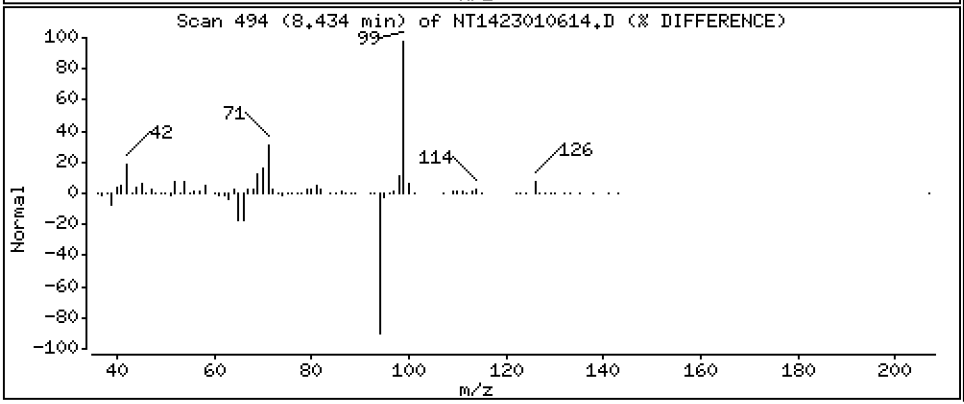
3 Phenol

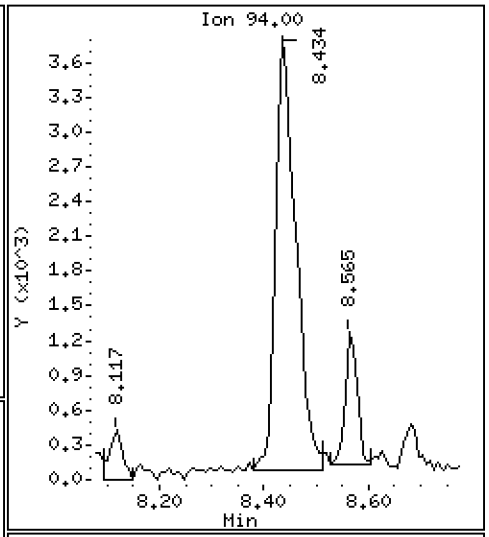
Concentration: 0.1689 ug/mL

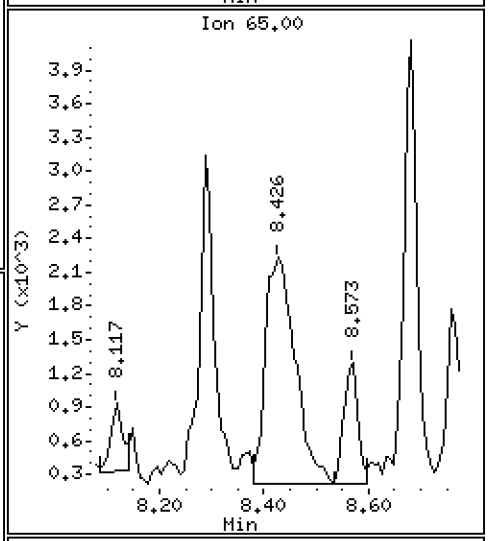


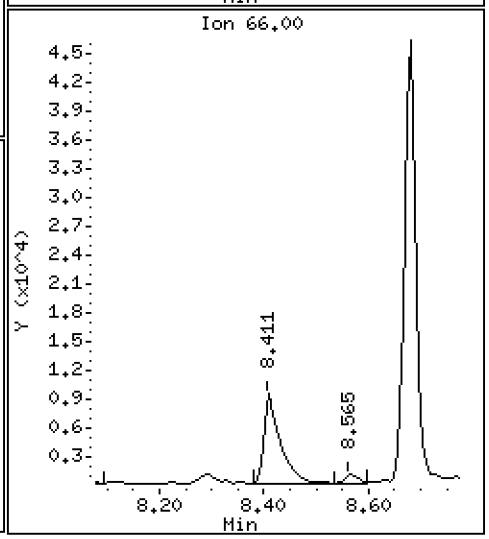












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

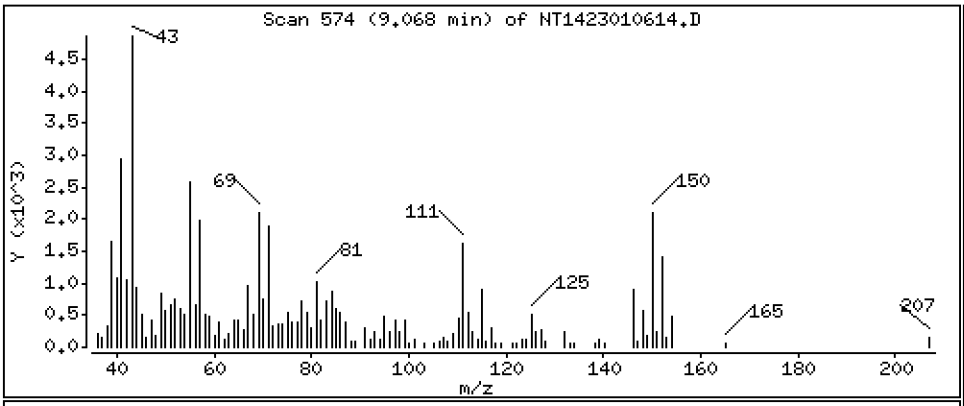
Operator: VTS

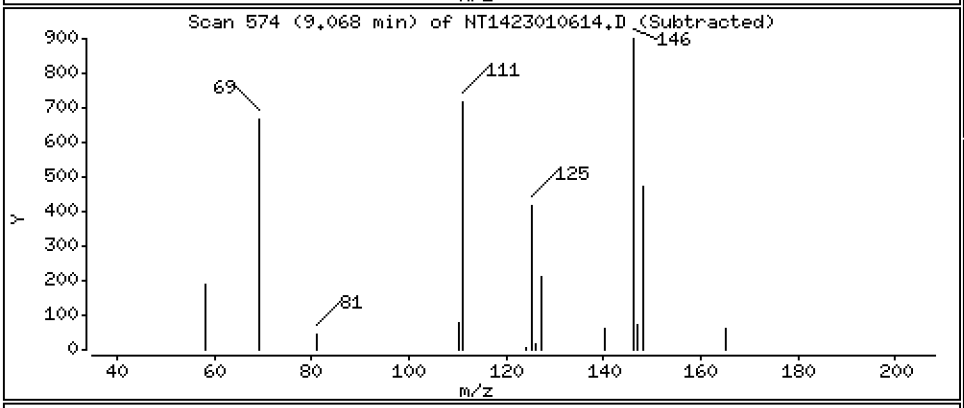
Column phase: ZB-5msi

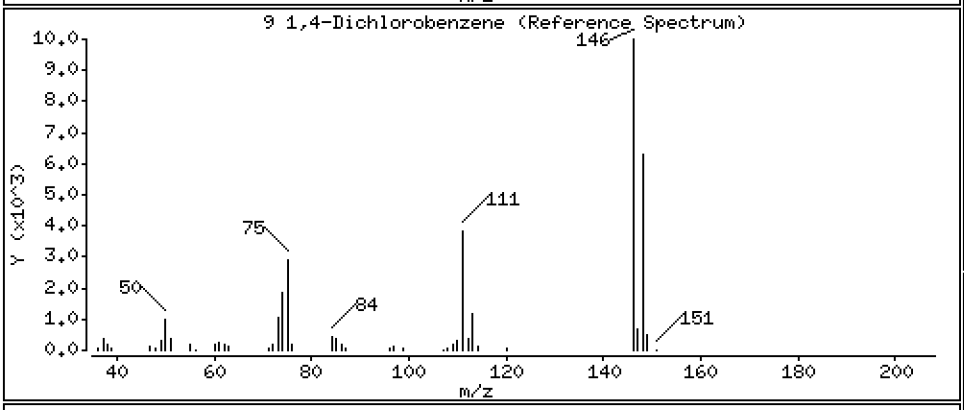
Column diameter: 0.25

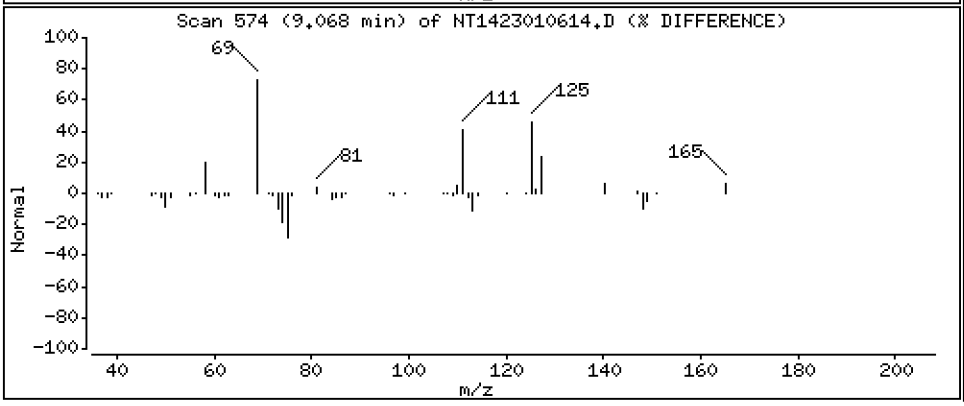
9 1,4-Dichlorobenzene

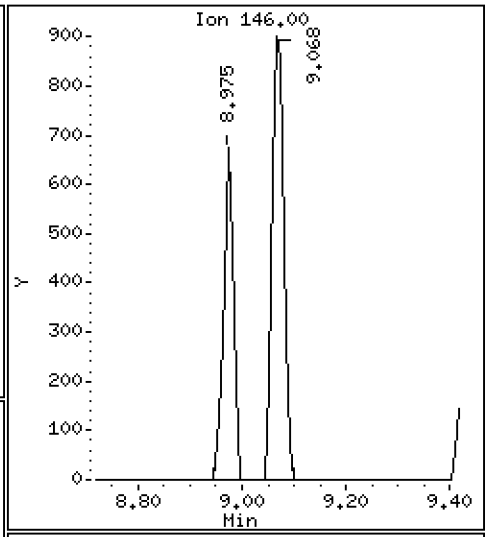
Concentration: 0.02815 ug/mL

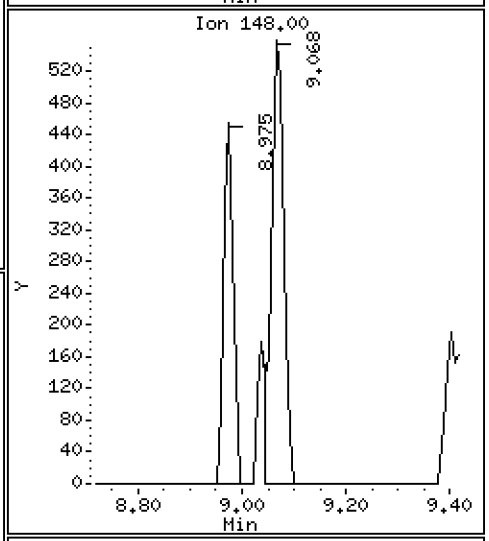


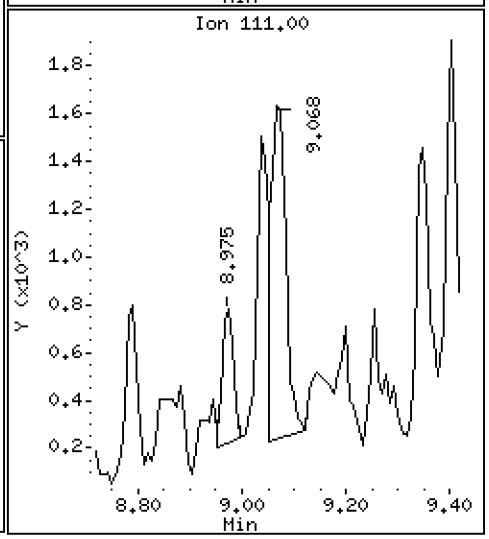












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

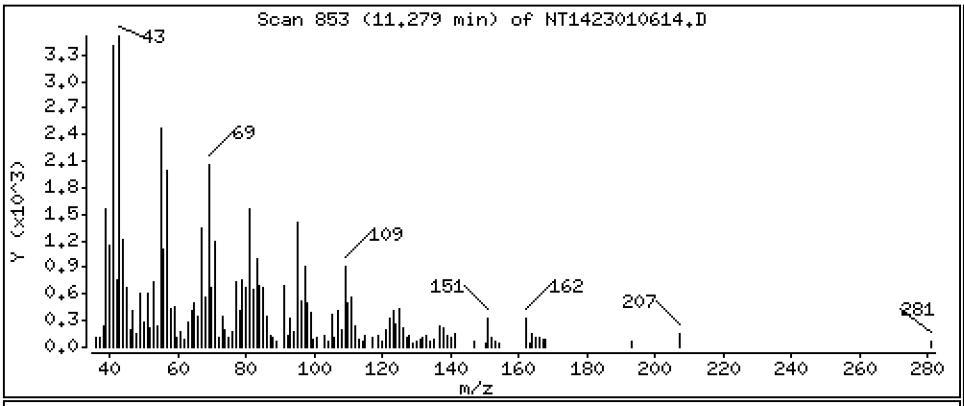
Operator: VTS

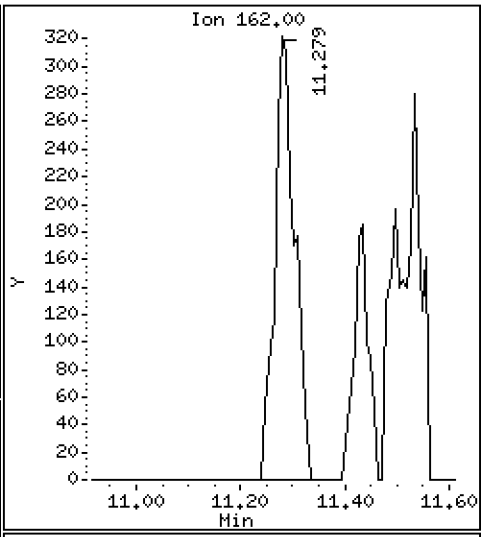
Column phase: ZB-5msi

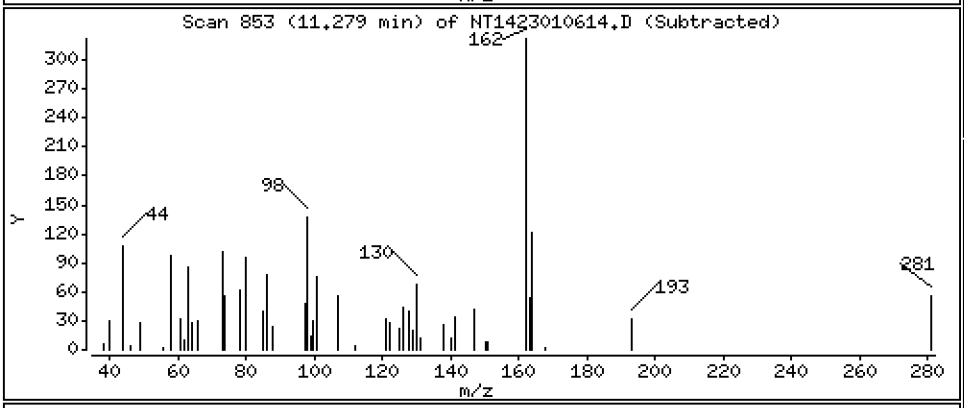
Column diameter: 0.25

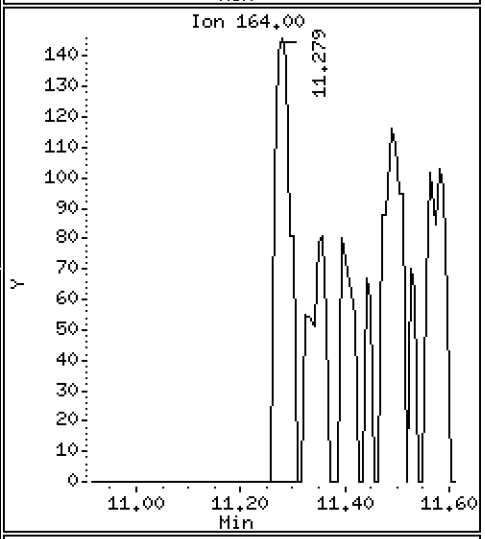
25 2,4-Dichlorophenol

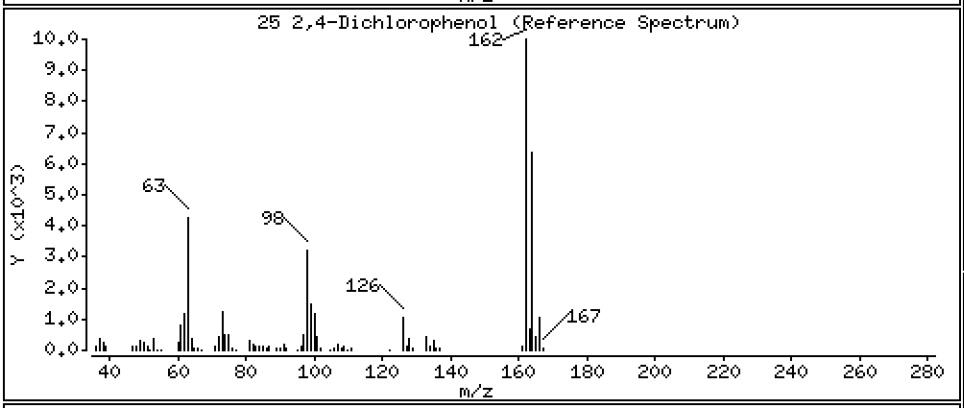
Concentration: 0.02318 ug/mL

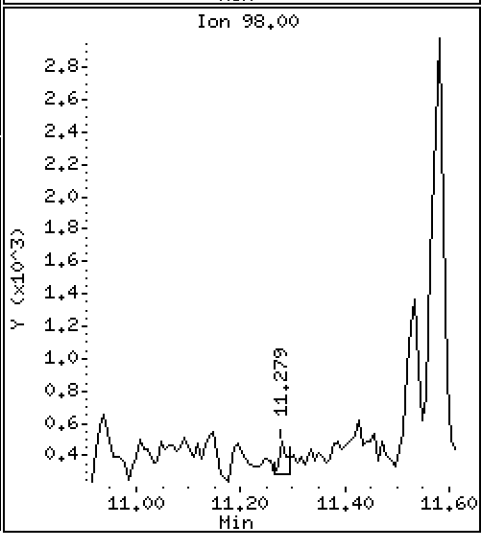


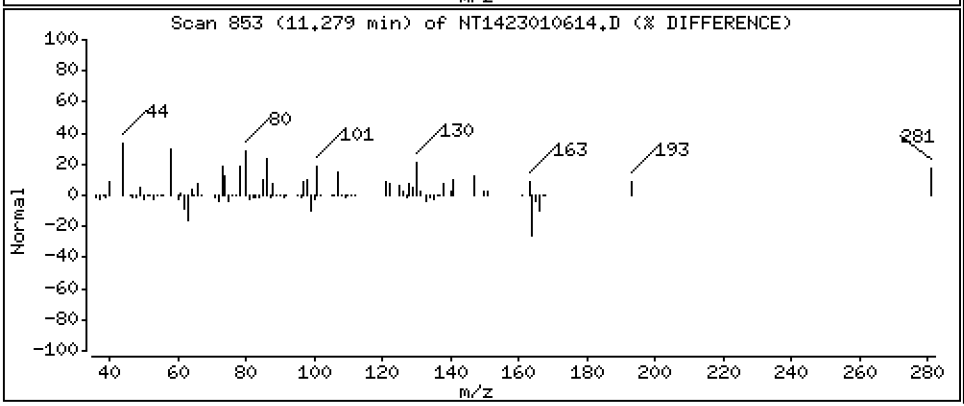












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

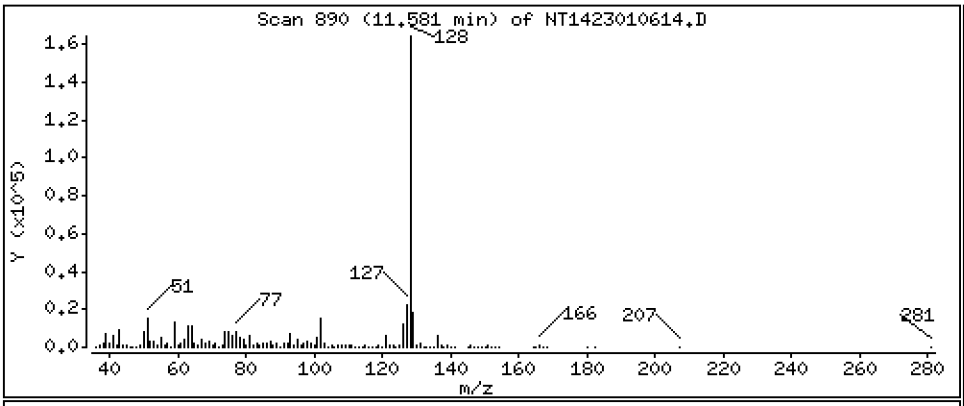
Operator: VTS

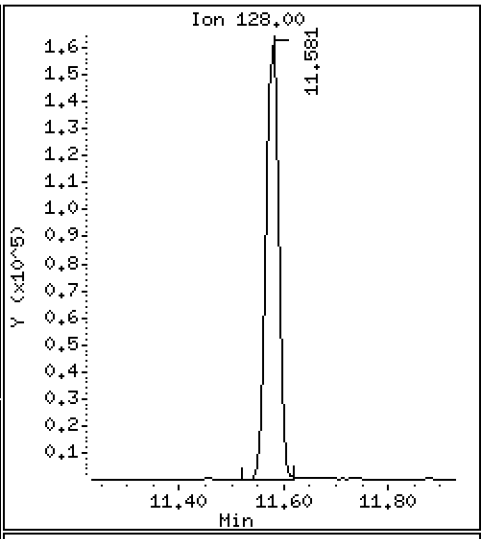
Column phase: ZB-5msi

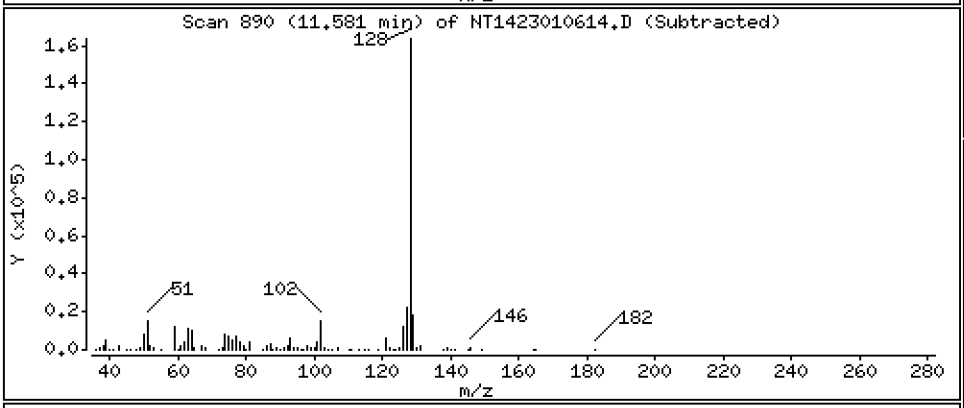
Column diameter: 0.25

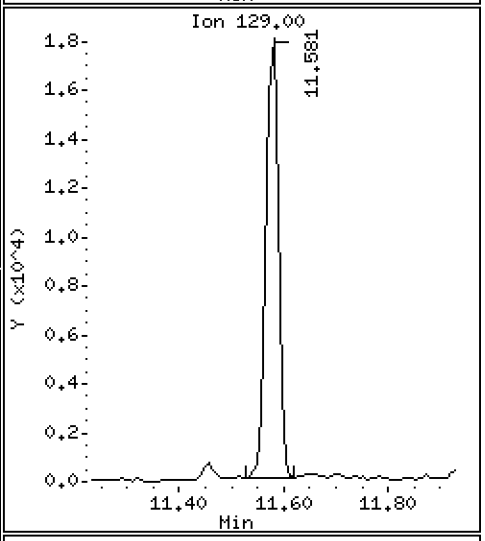
28 Naphthalene

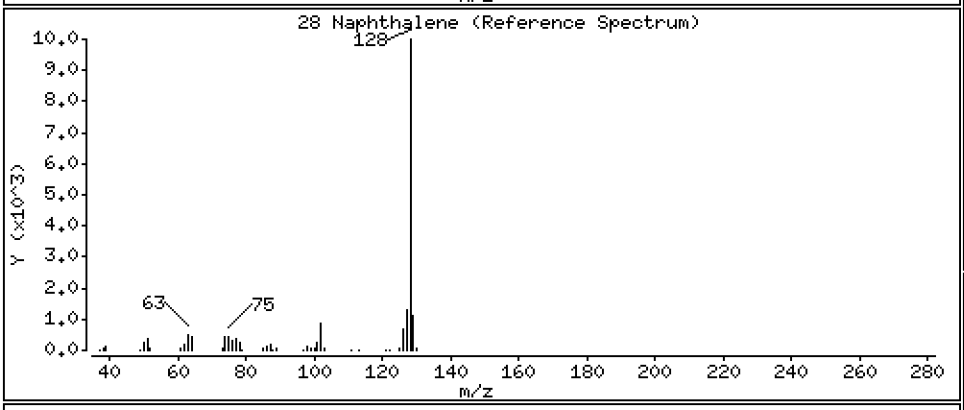
Concentration: 2.041 ug/mL

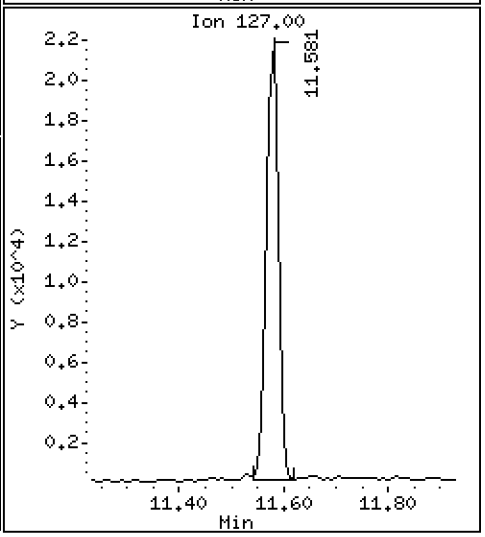


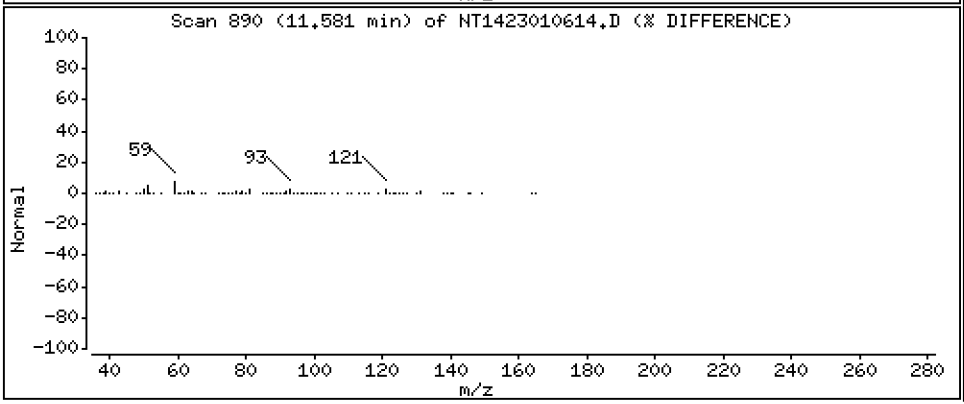












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

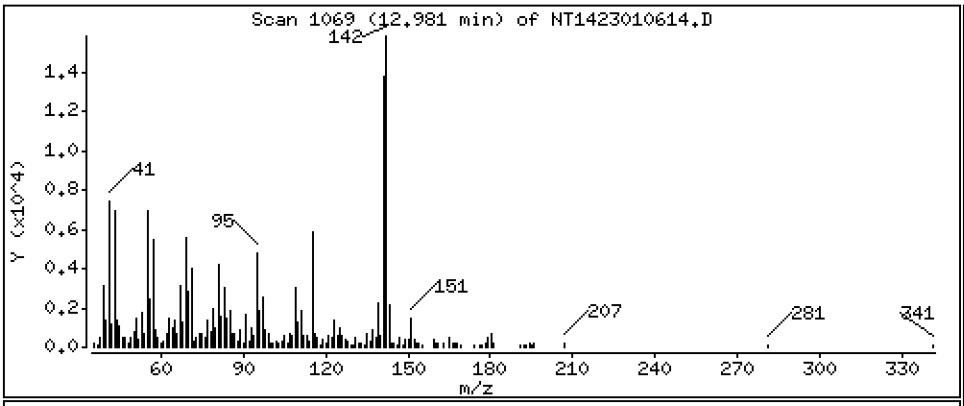
Operator: VTS

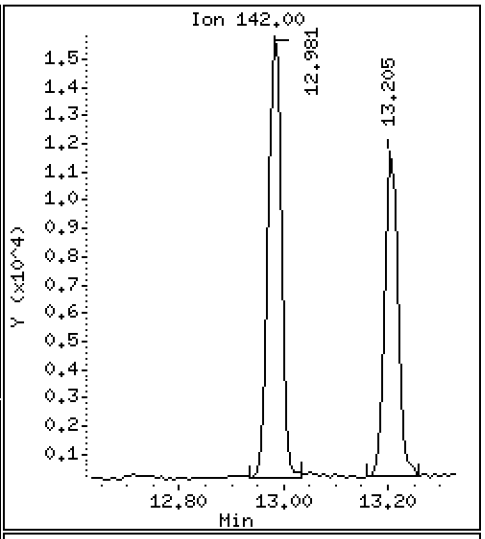
Column phase: ZB-5msi

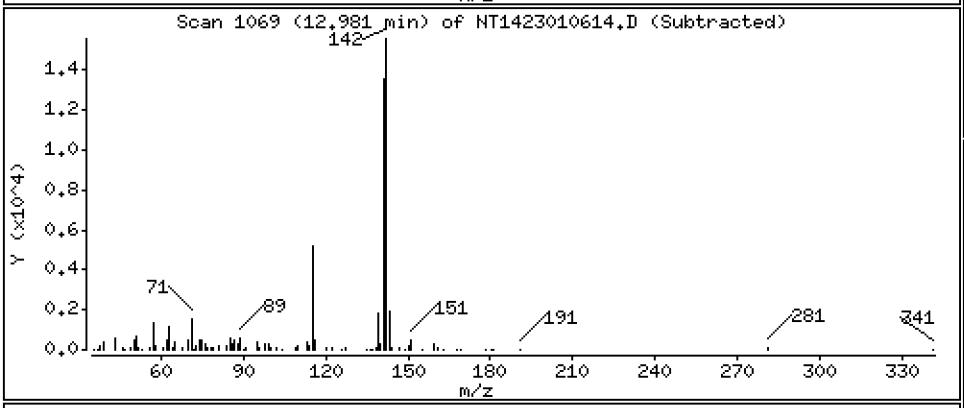
Column diameter: 0.25

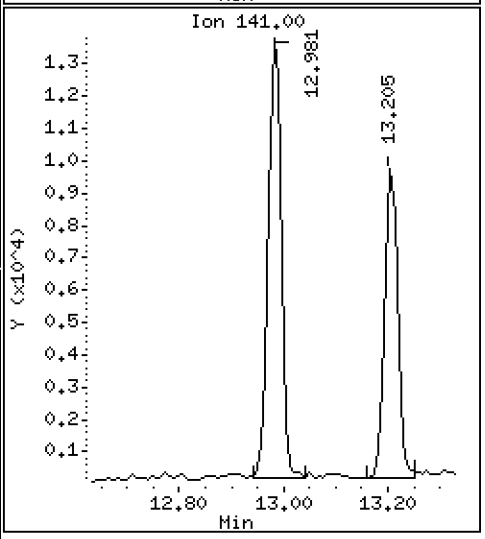
32 2-Methylnaphthalene

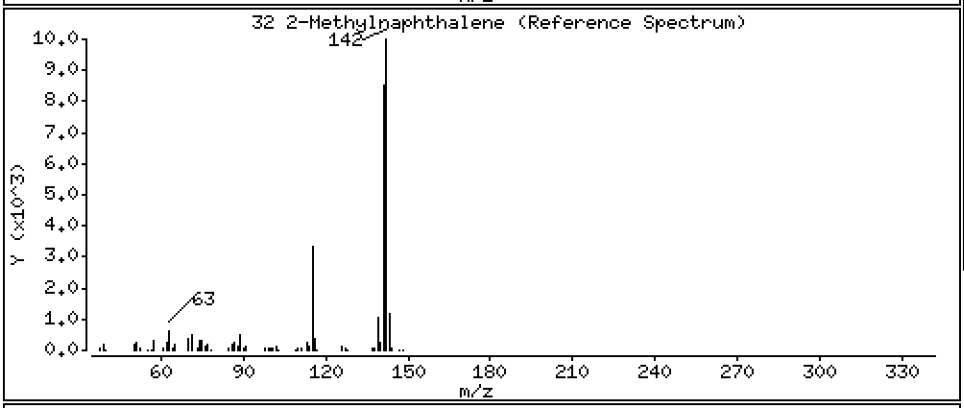
Concentration: 0.2875 ug/mL

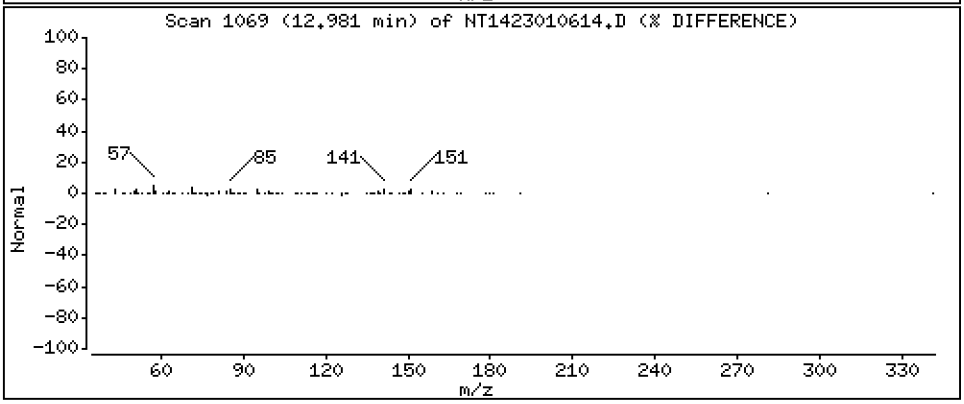












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

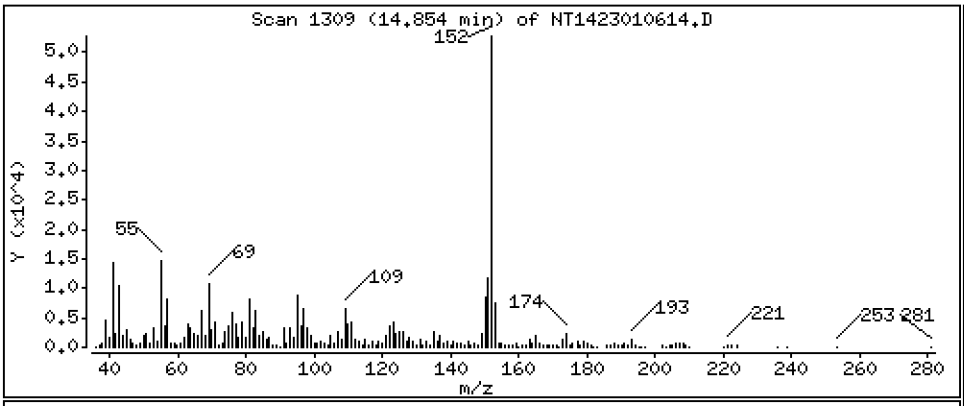
Operator: VTS

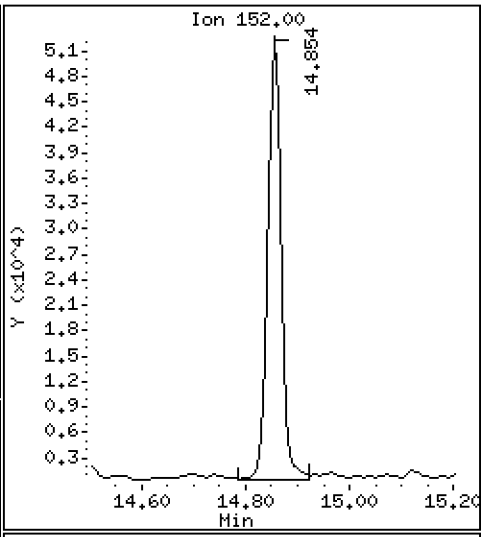
Column phase: ZB-5msi

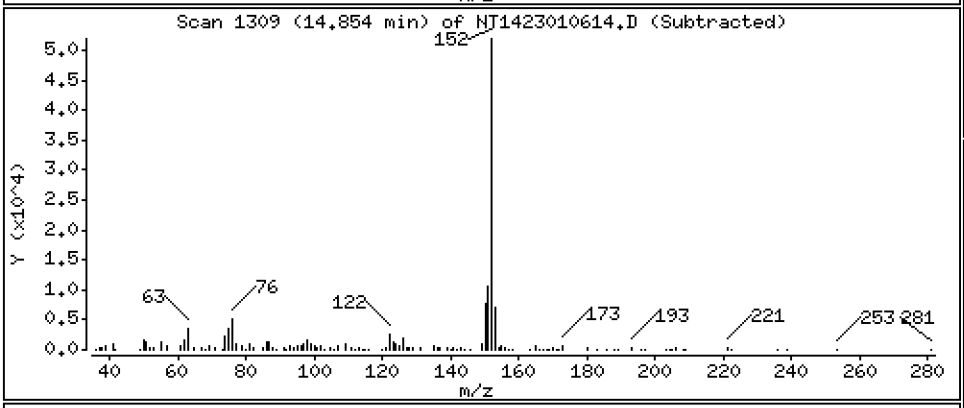
Column diameter: 0.25

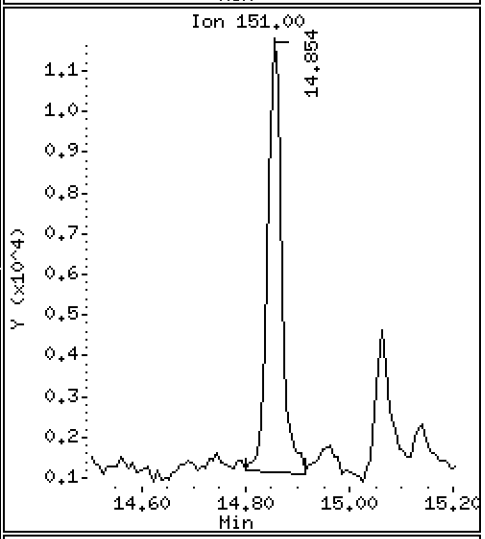
40 Acenaphthylene

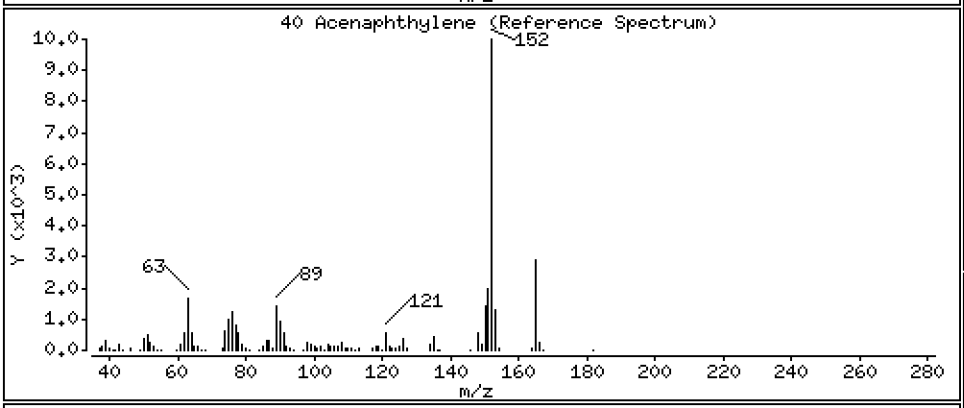
Concentration: 0.8555 ug/mL

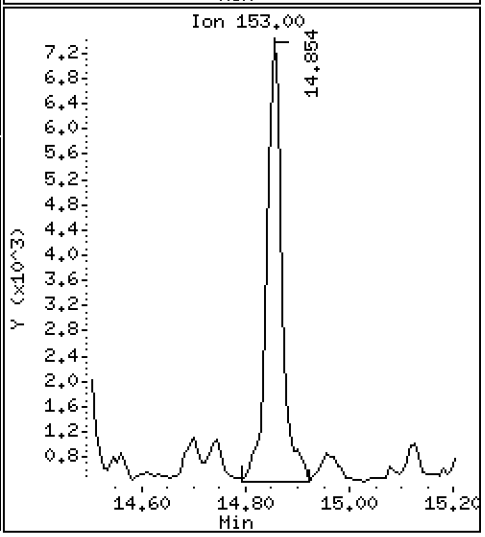


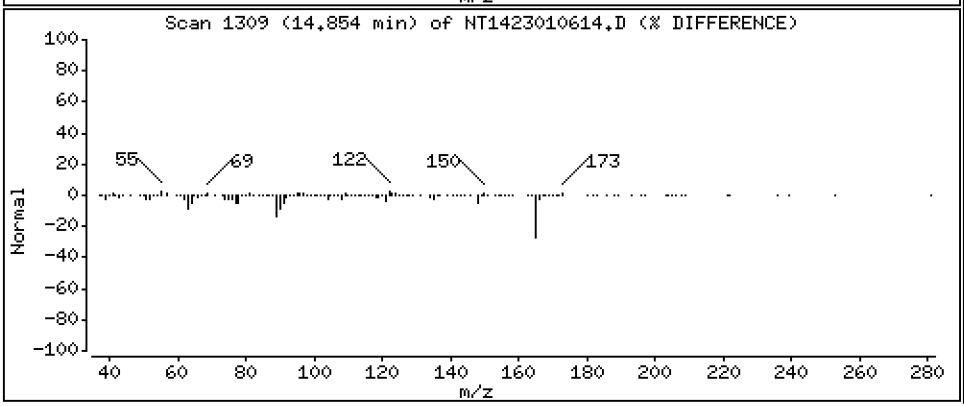












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

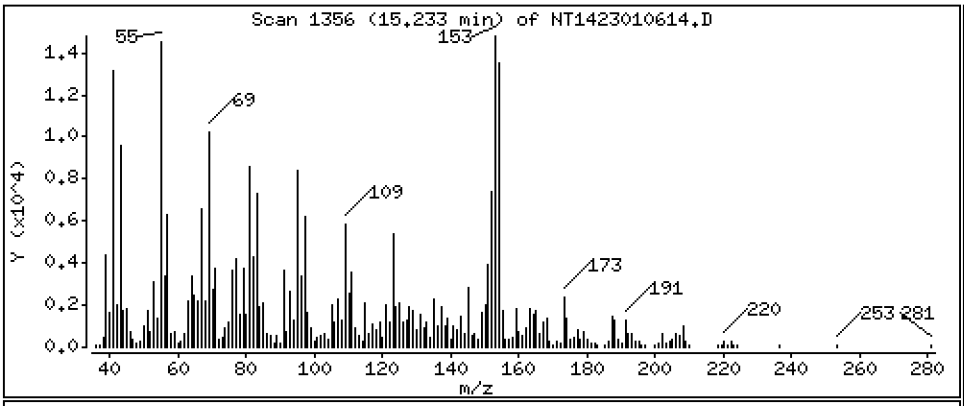
Operator: VTS

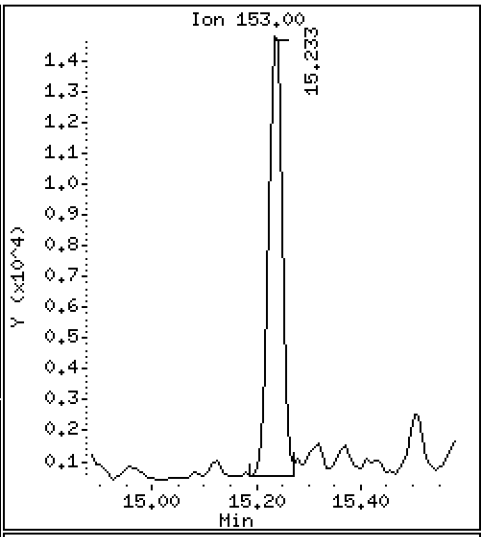
Column phase: ZB-5msi

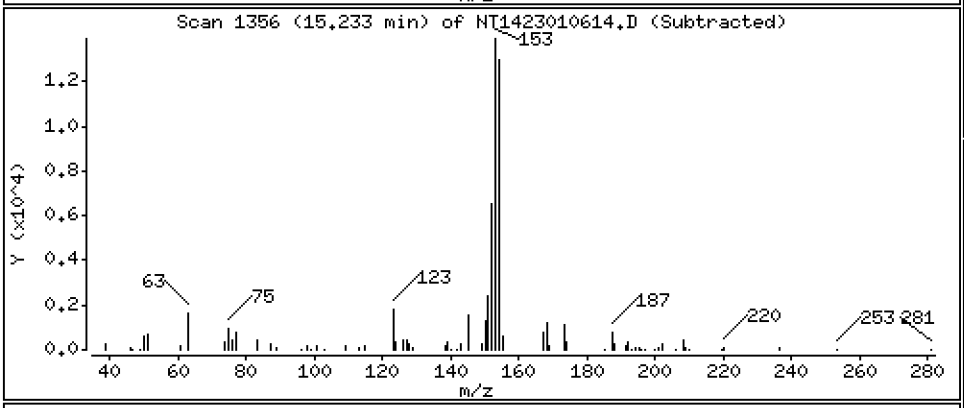
Column diameter: 0.25

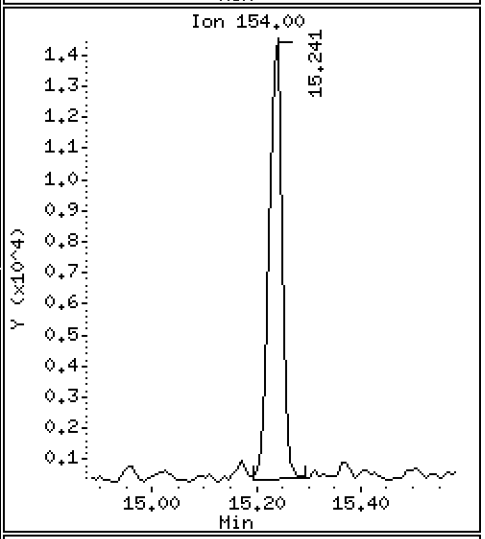
44 Acenaphthene

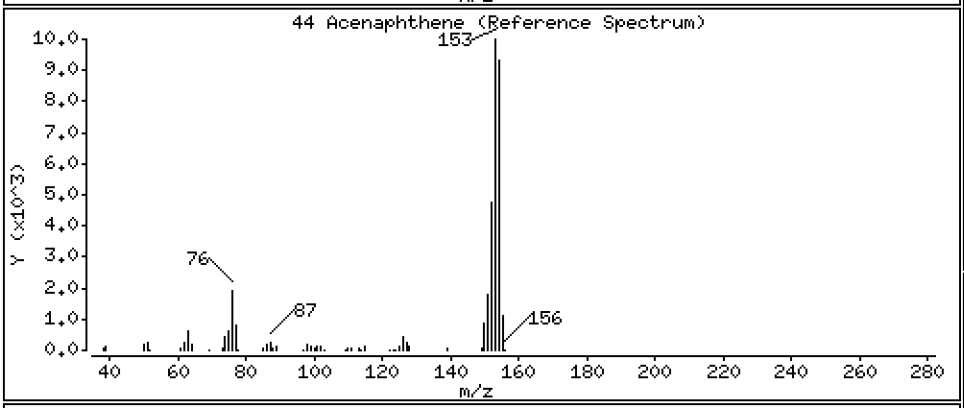
Concentration: 0.3957 ug/mL

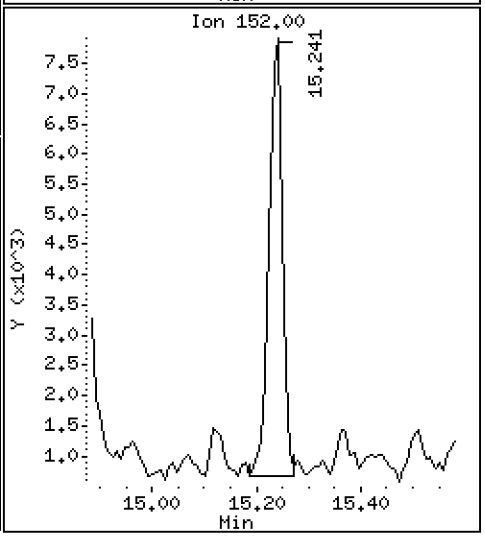


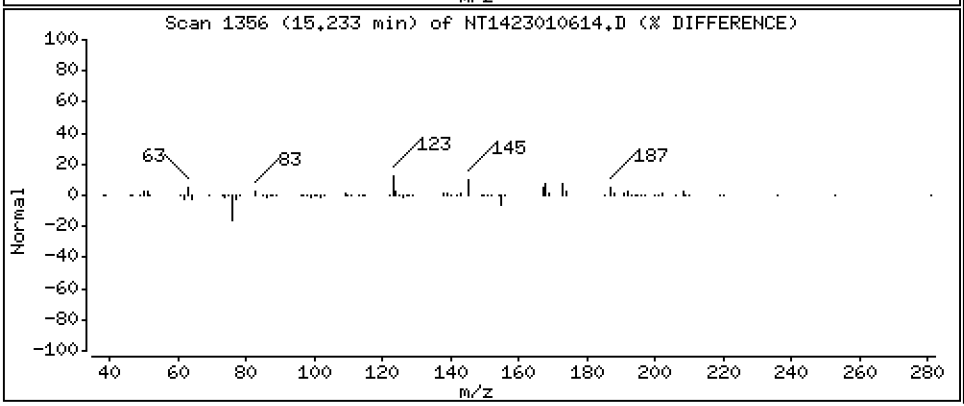












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

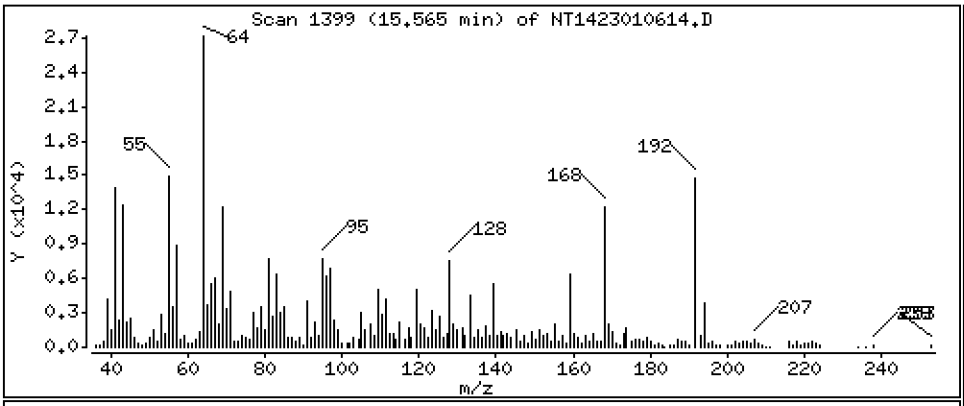
Operator: VTS

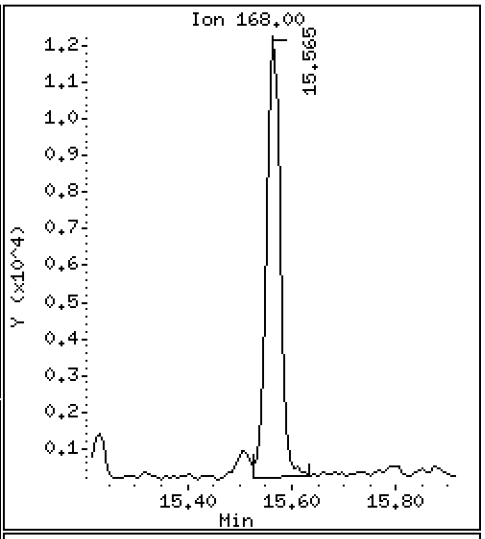
Column phase: ZB-5msi

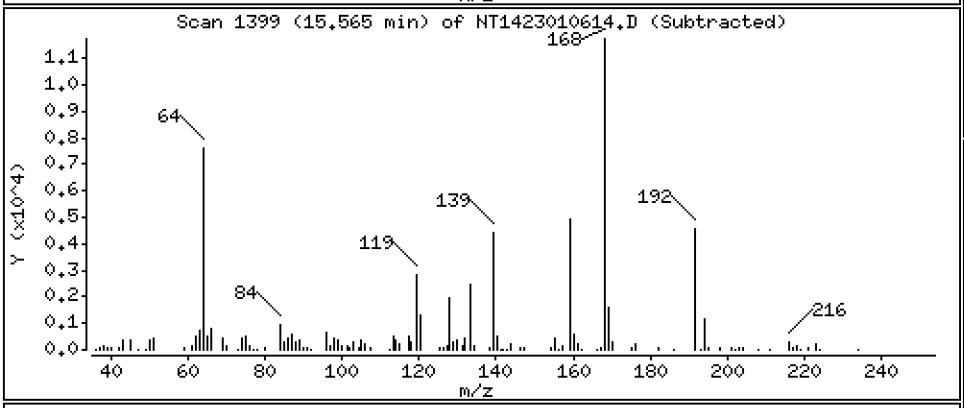
Column diameter: 0.25

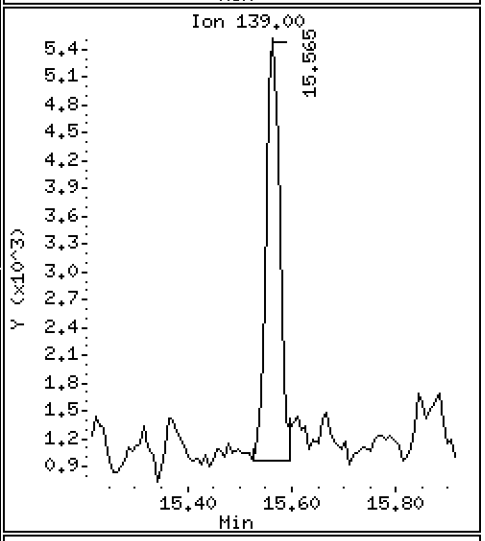
46 Dibenzofuran

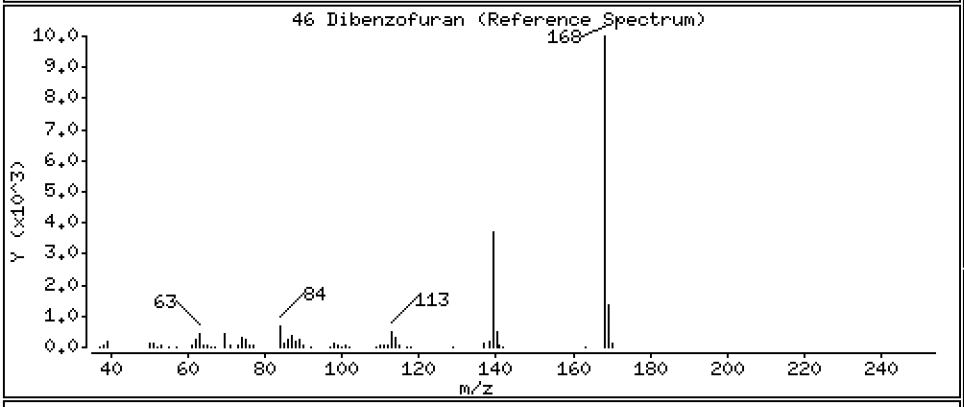
Concentration: 0.2192 ug/mL

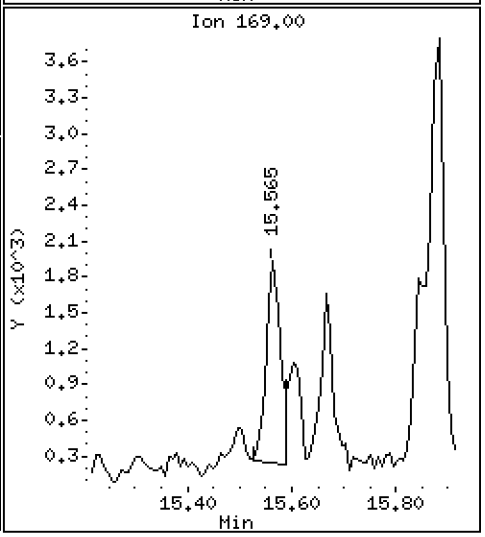


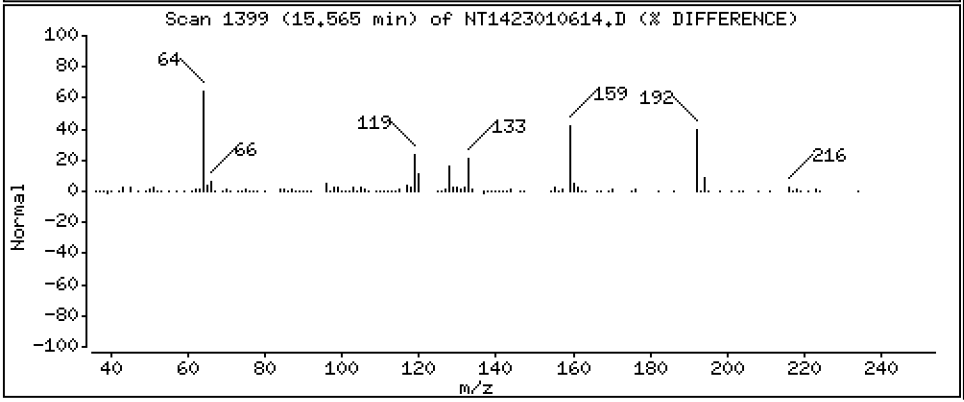












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

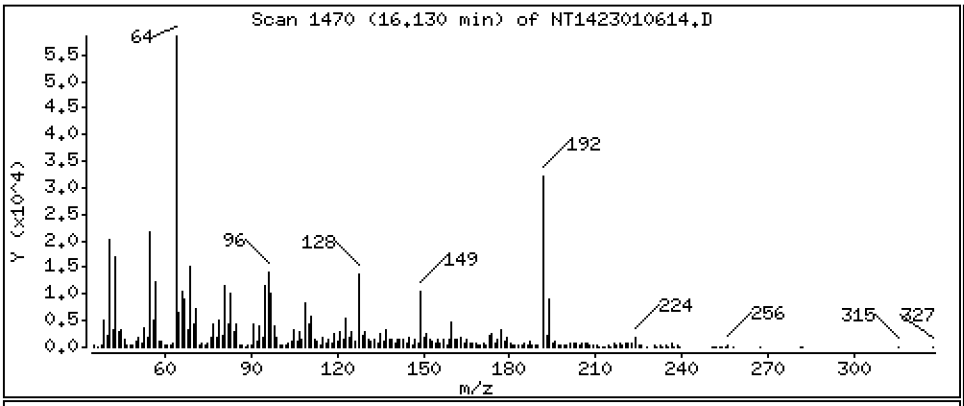
Operator: VTS

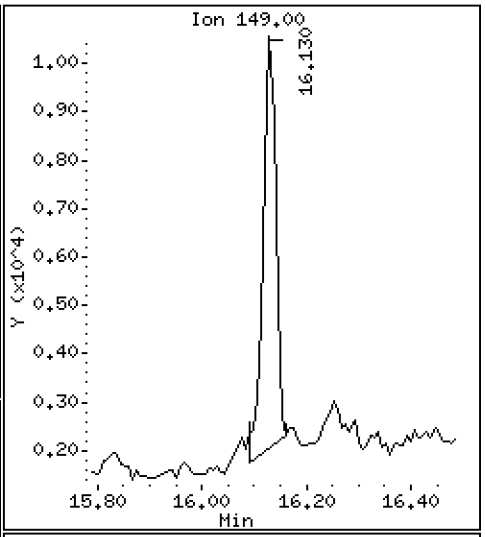
Column phase: ZB-5msi

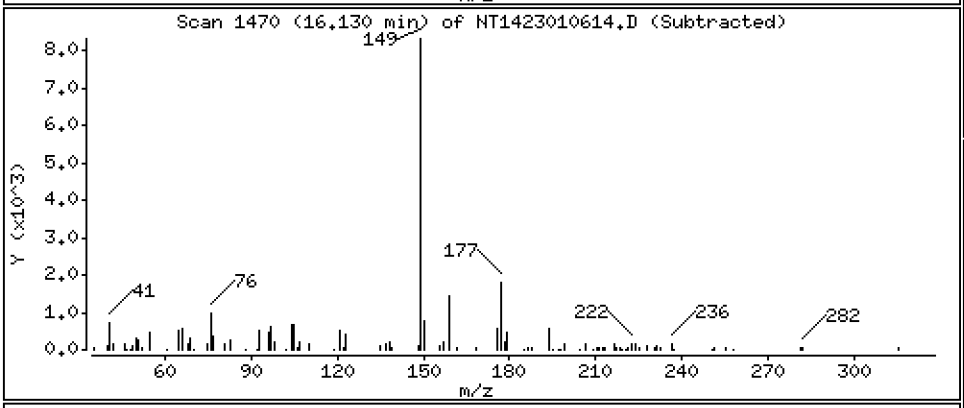
Column diameter: 0.25

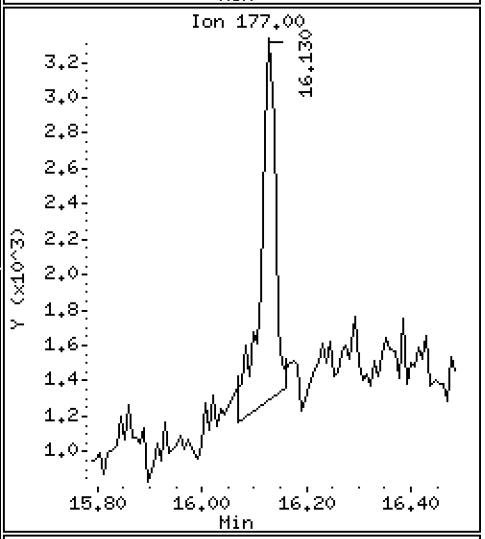
50 Diethylphthalate

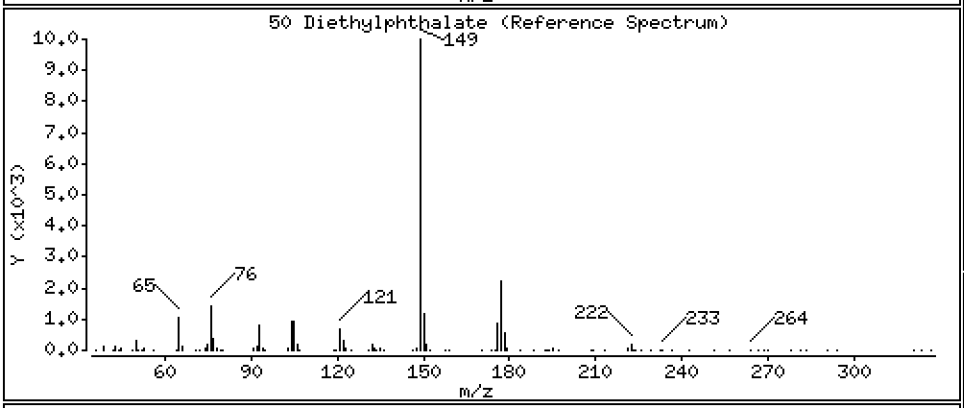
Concentration: 0.1519 ug/mL

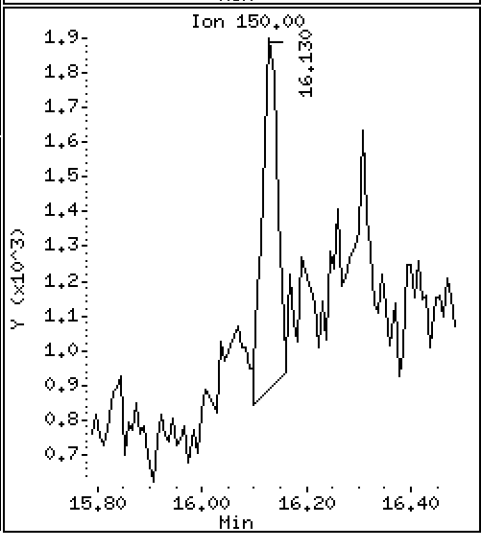


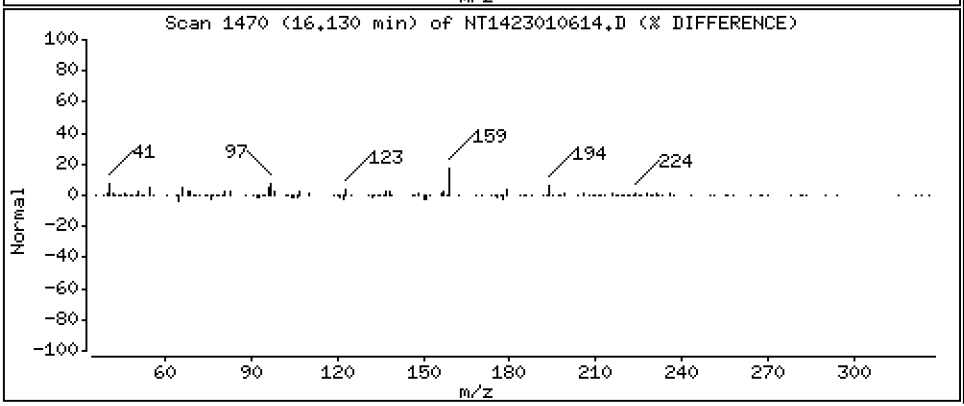












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

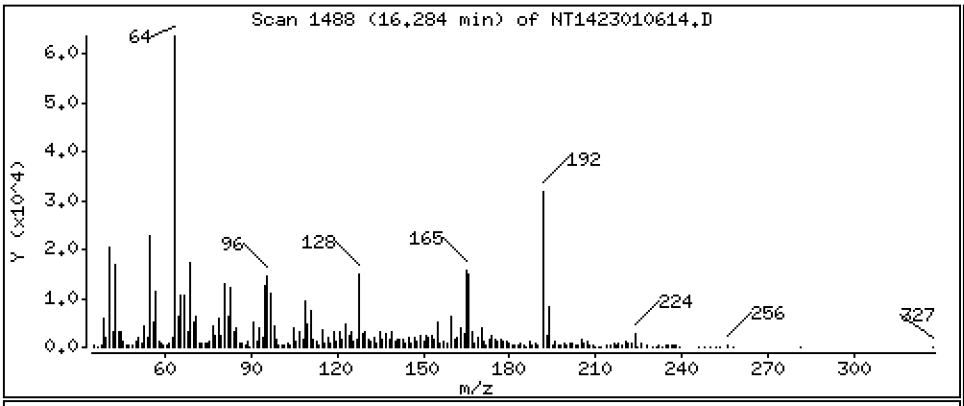
Operator: VTS

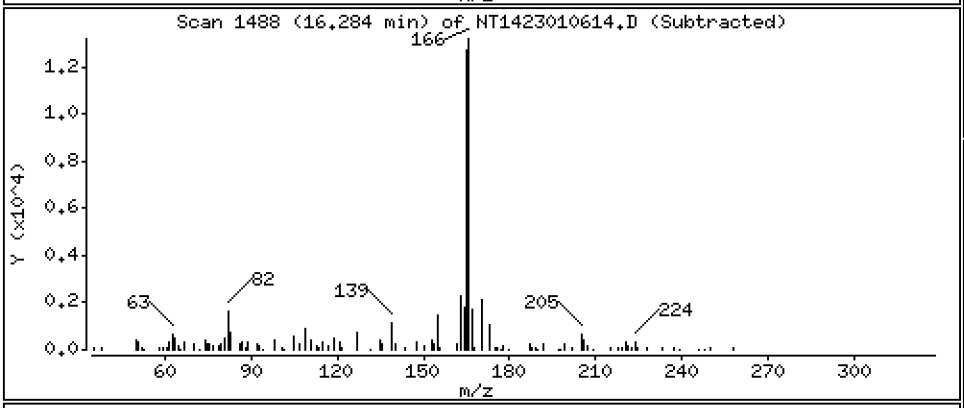
Column phase: ZB-5msi

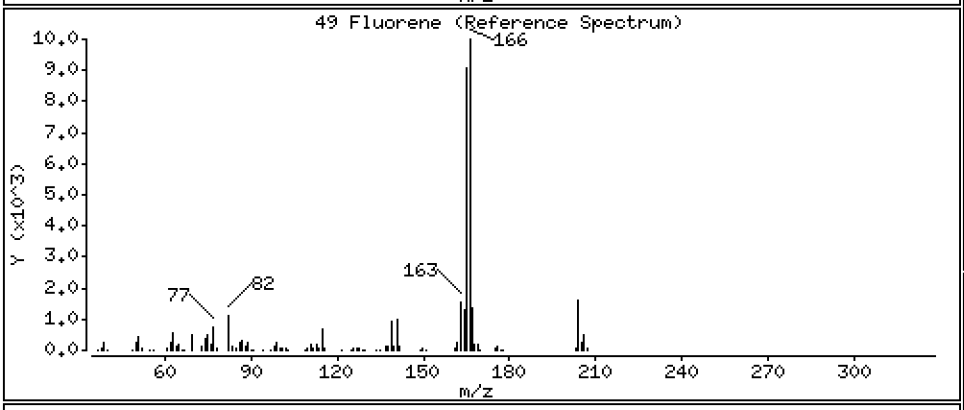
Column diameter: 0.25

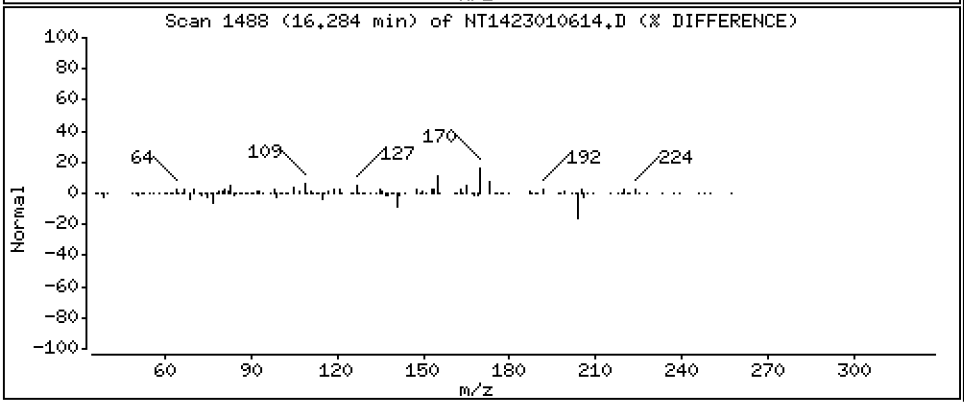
49 Fluorene

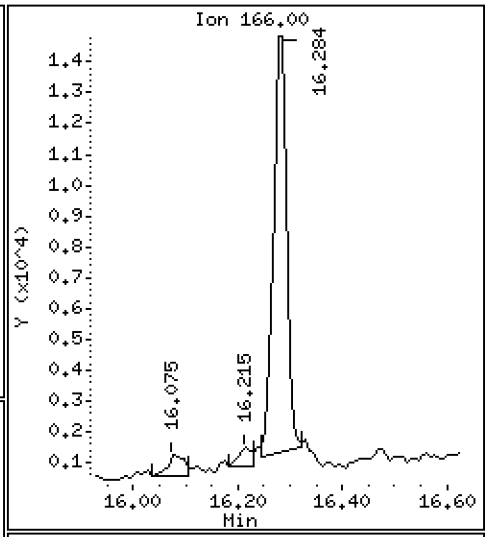
Concentration: 0.2359 ug/mL

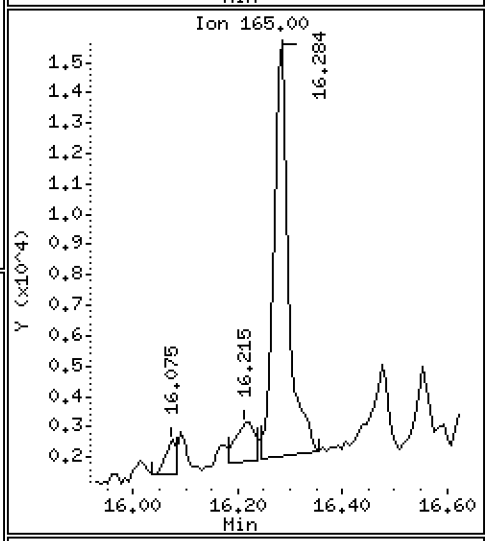


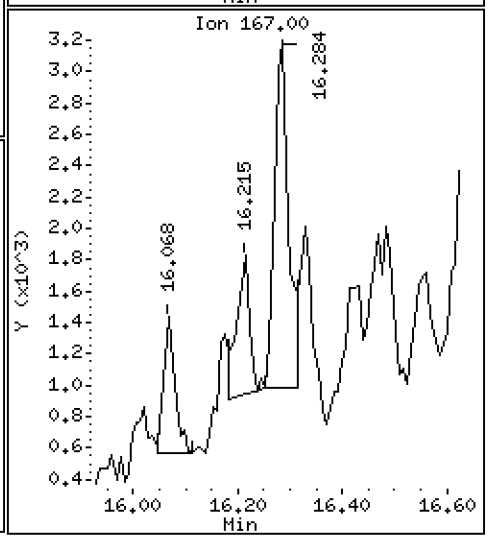












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

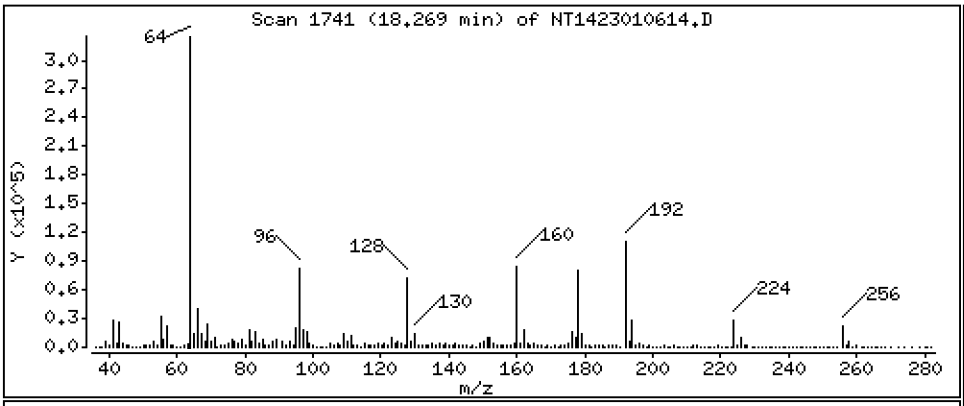
Operator: VTS

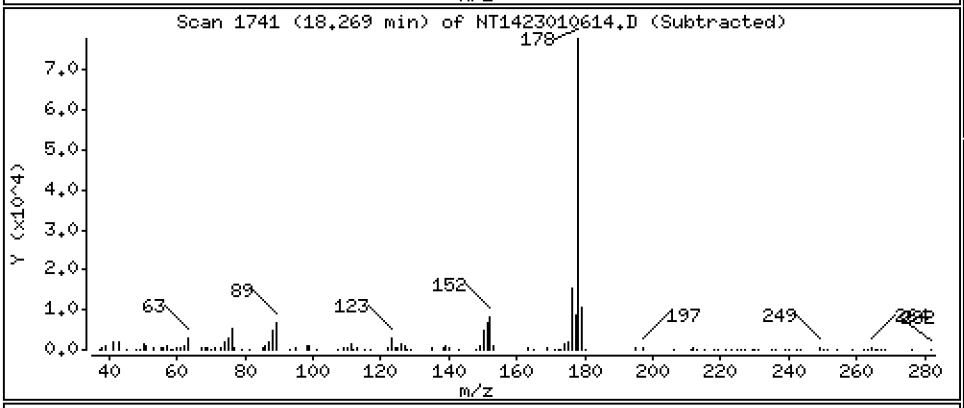
Column phase: ZB-5msi

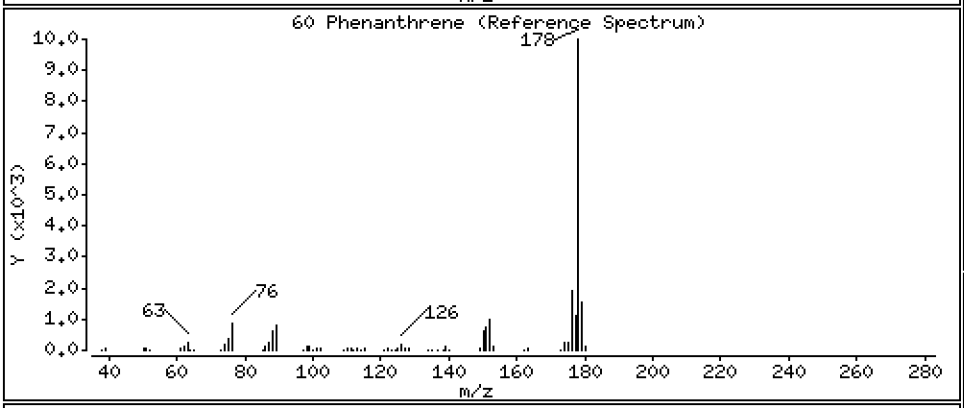
Column diameter: 0.25

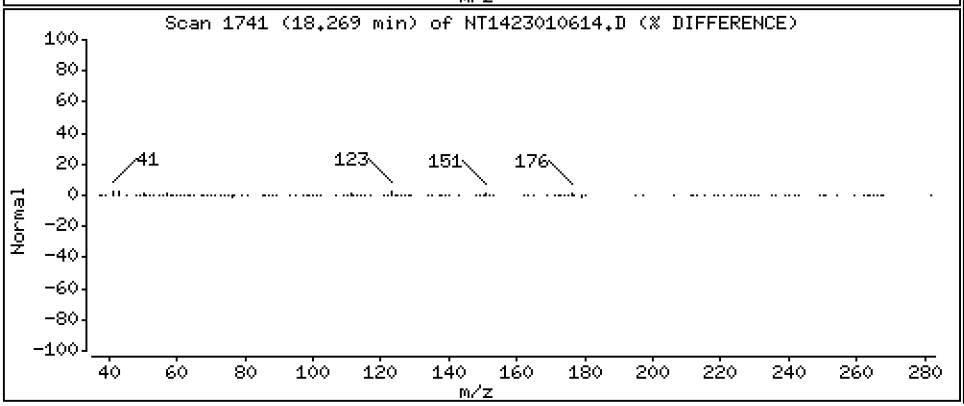
60 Phenanthrene

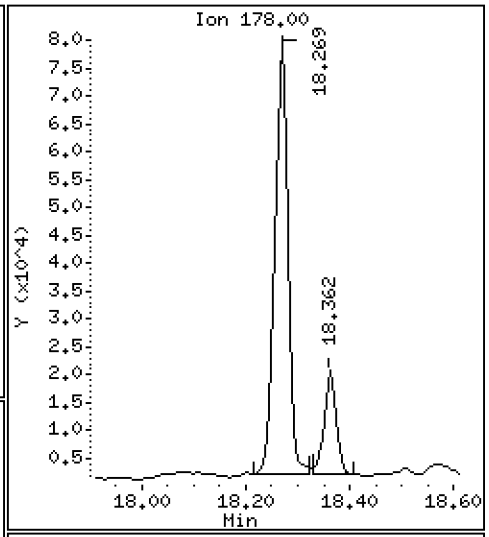
Concentration: 1.182 ug/mL

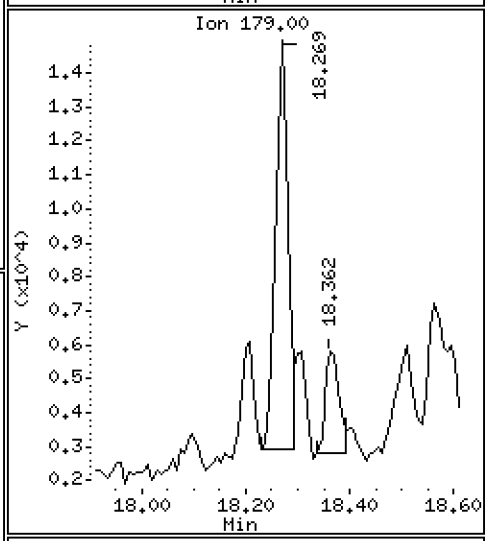


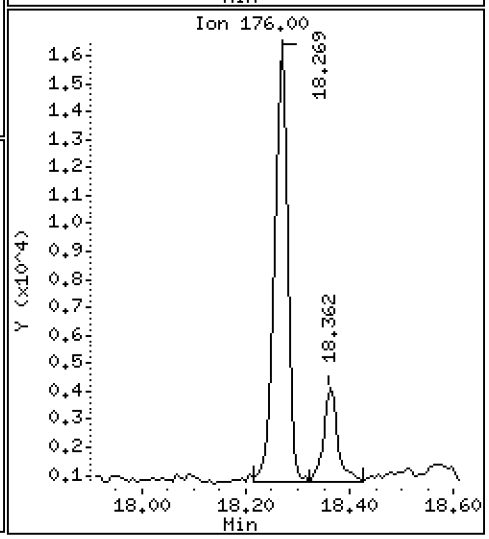












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

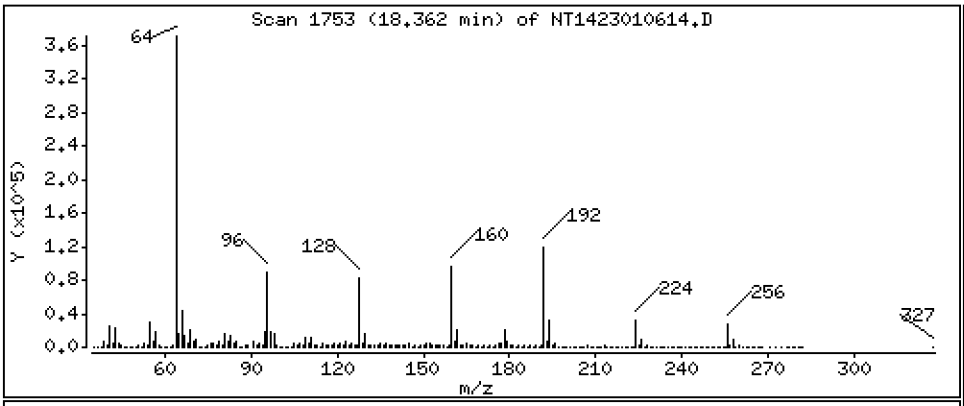
Operator: VTS

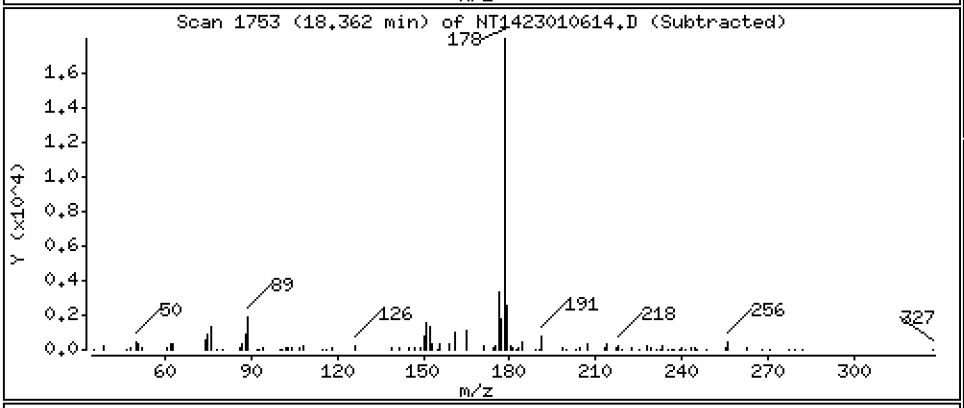
Column phase: ZB-5msi

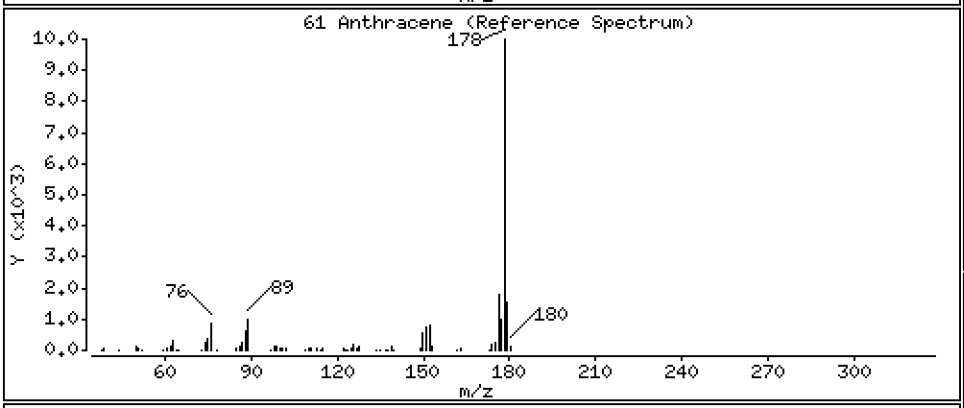
Column diameter: 0.25

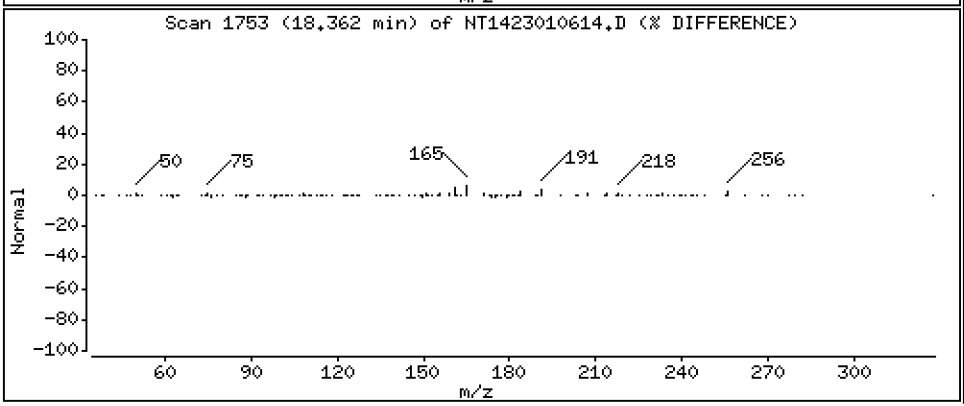
61 Anthracene

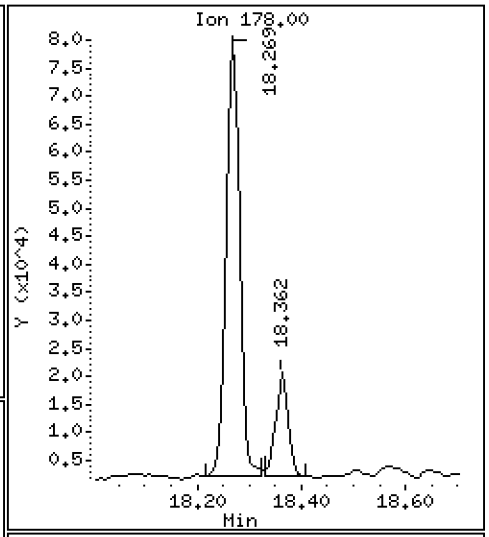
Concentration: 0.2840 ug/mL

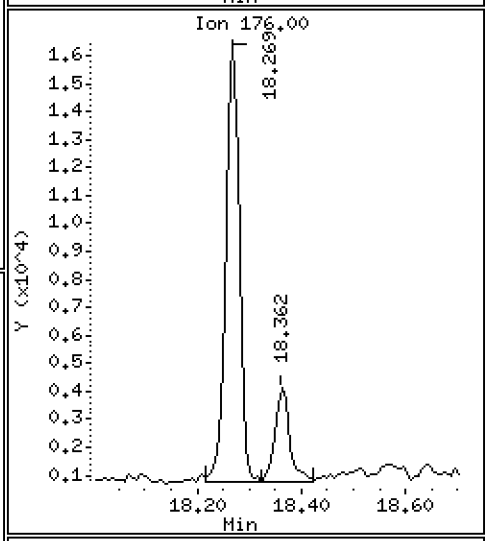


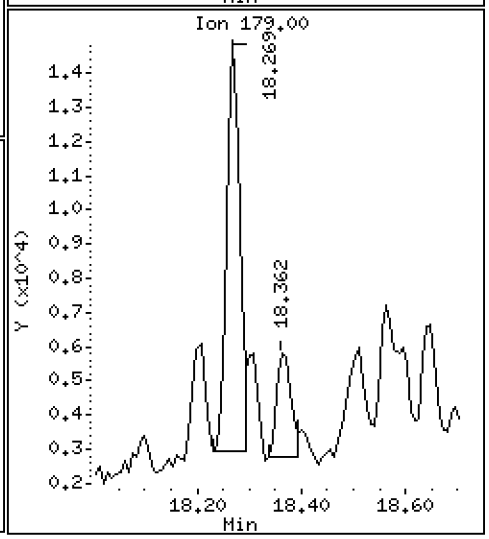












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

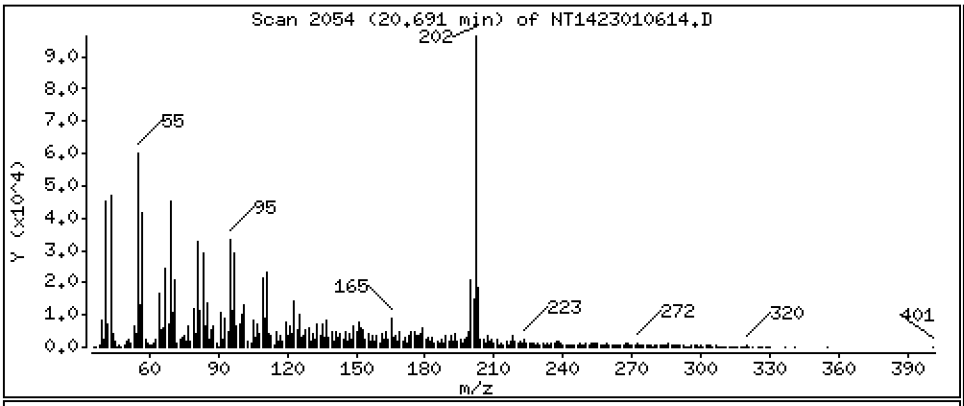
Operator: VTS

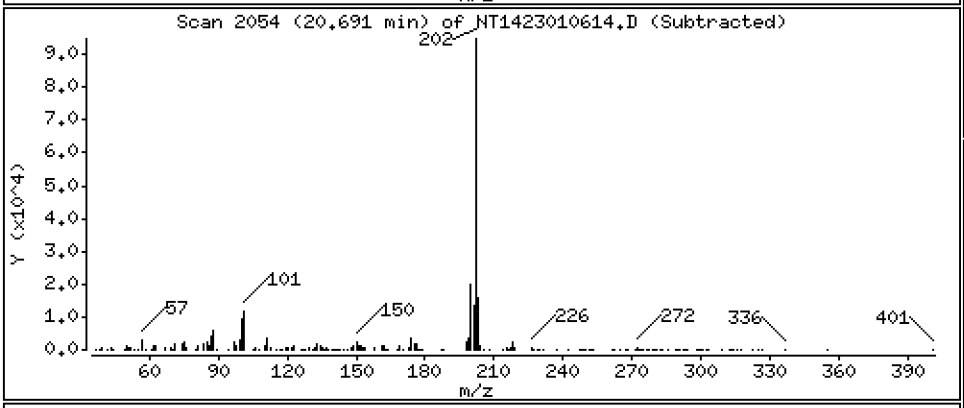
Column phase: ZB-5msi

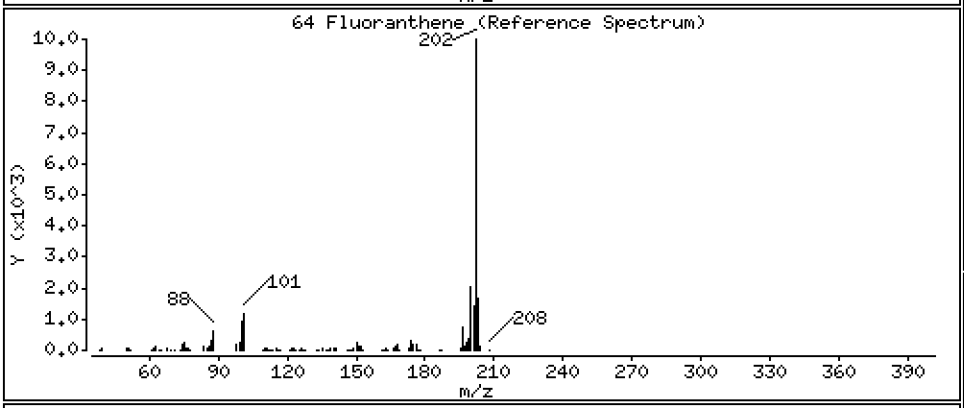
Column diameter: 0.25

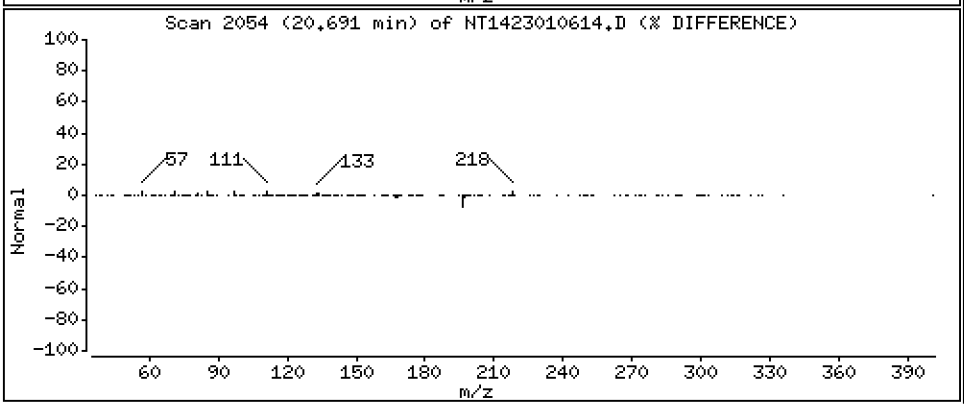
64 Fluoranthene

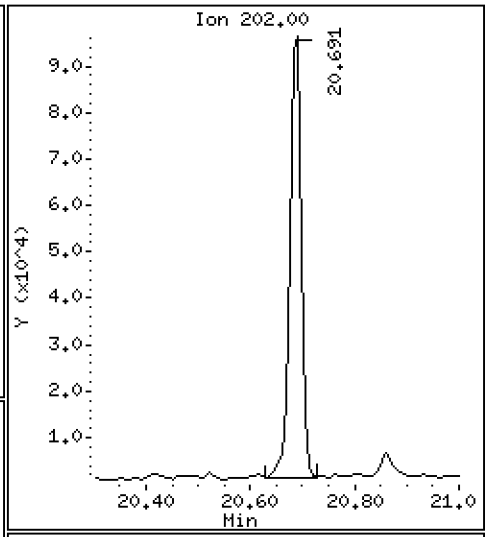
Concentration: 1.432 ug/mL

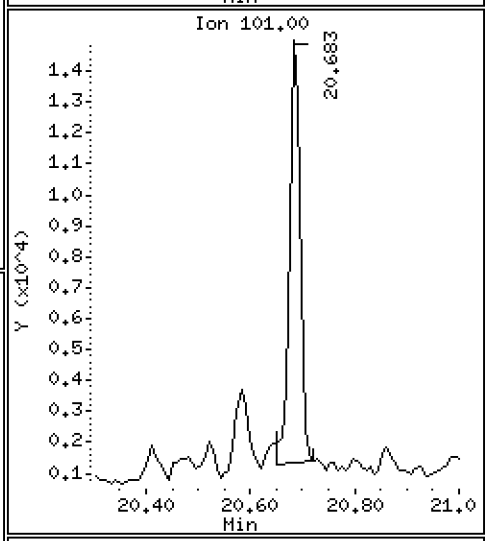


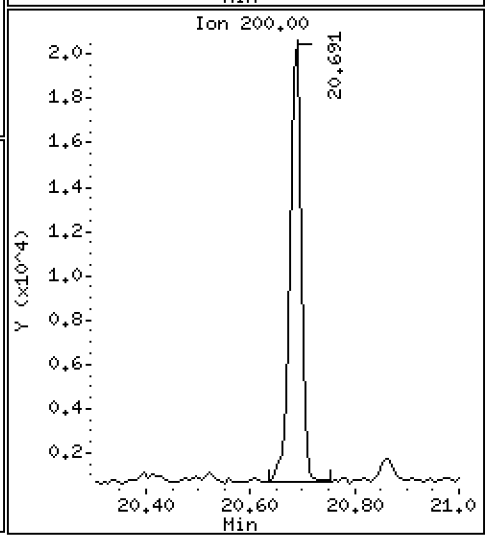












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

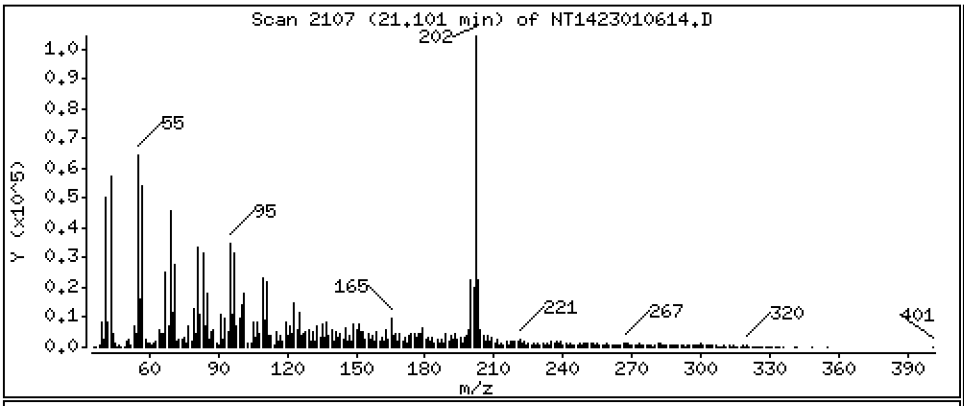
Operator: VTS

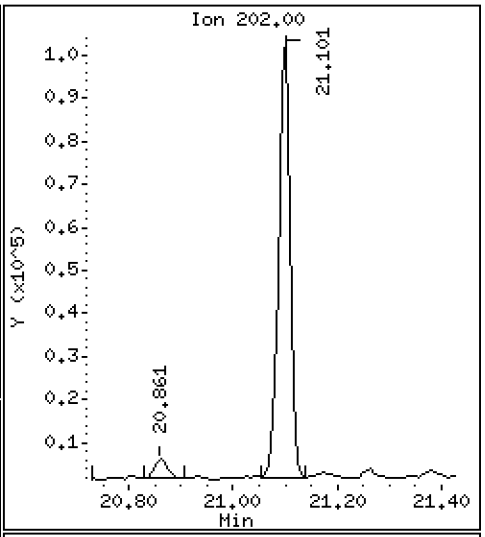
Column phase: ZB-5msi

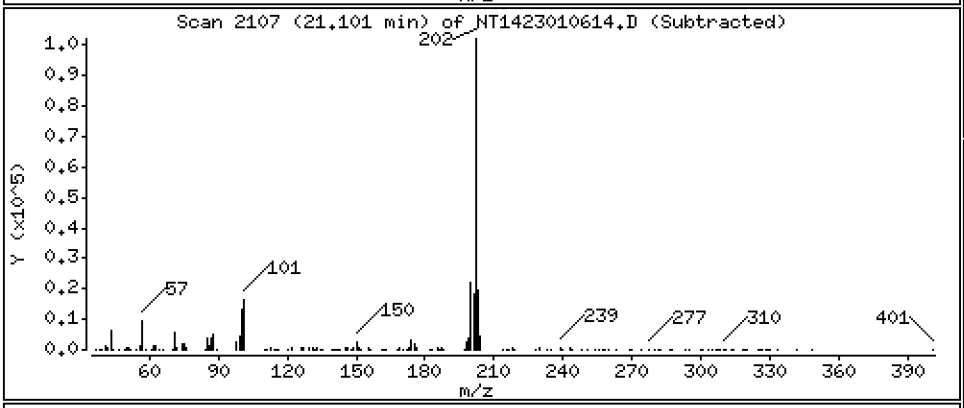
Column diameter: 0.25

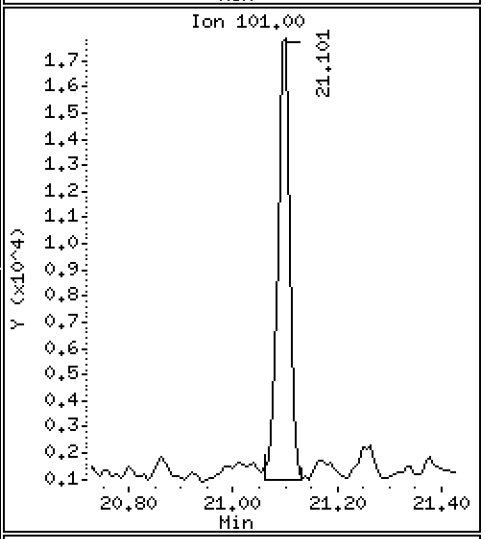
65 Pyrene

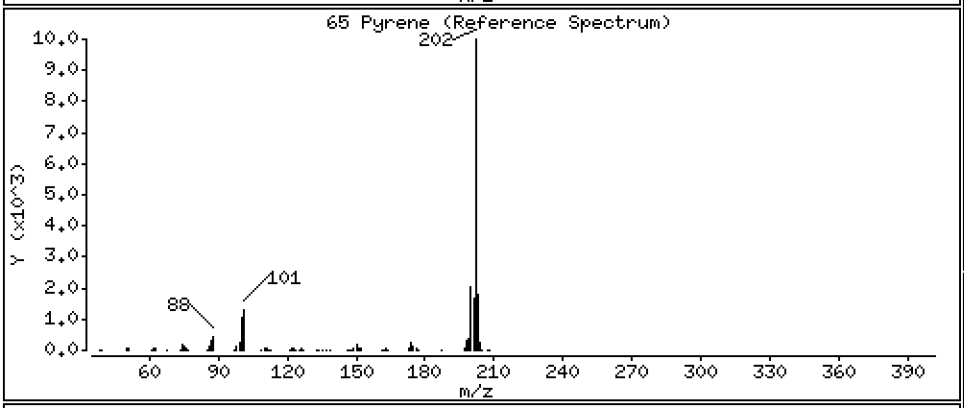
Concentration: 1.422 ug/mL

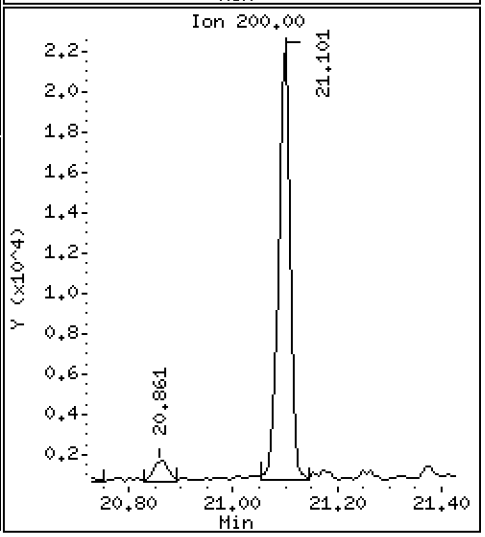


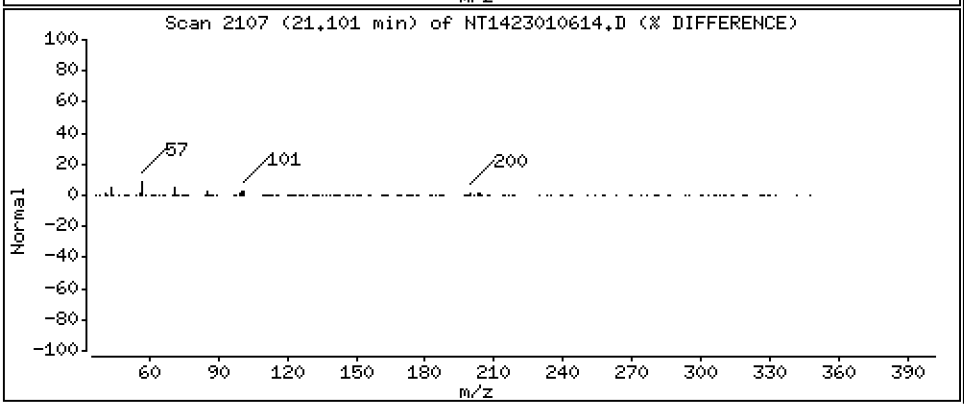












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

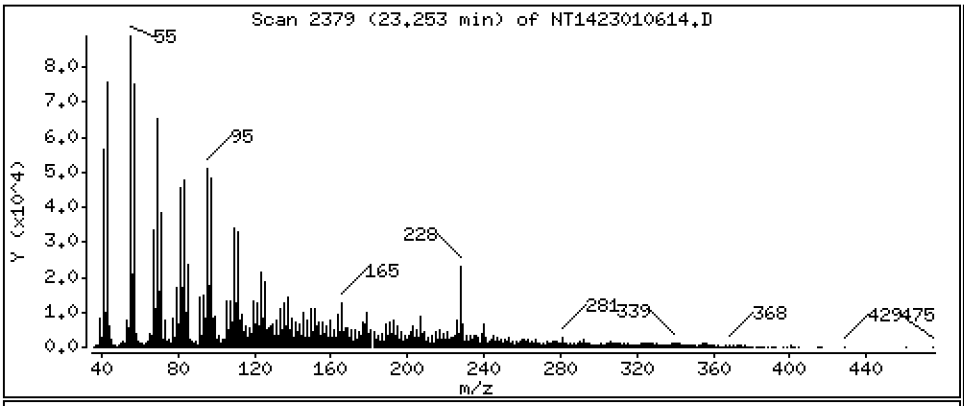
Operator: VTS

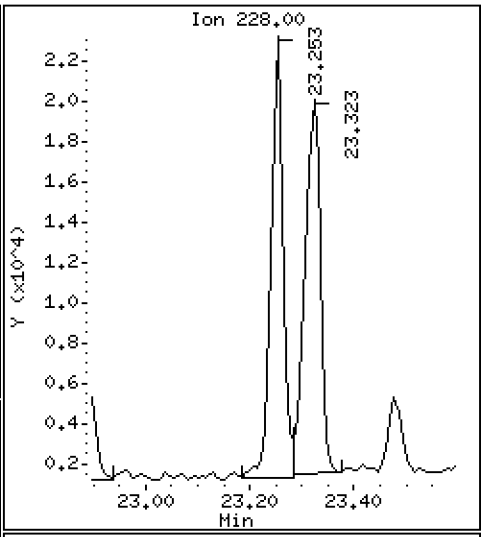
Column phase: ZB-5msi

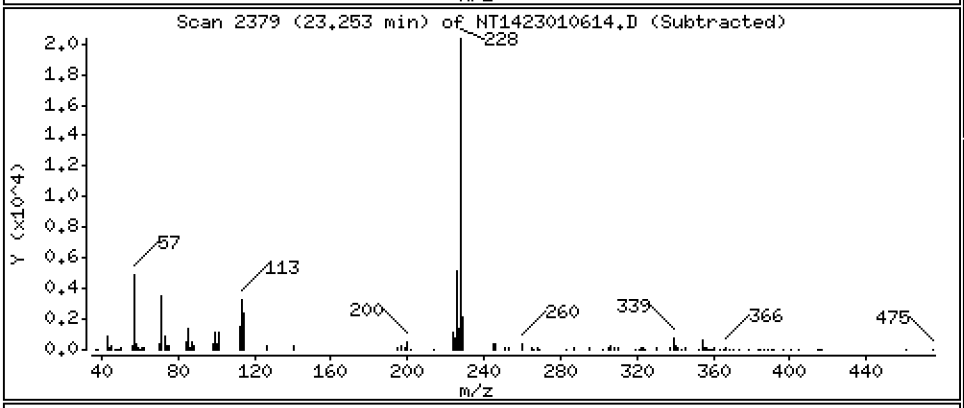
Column diameter: 0.25

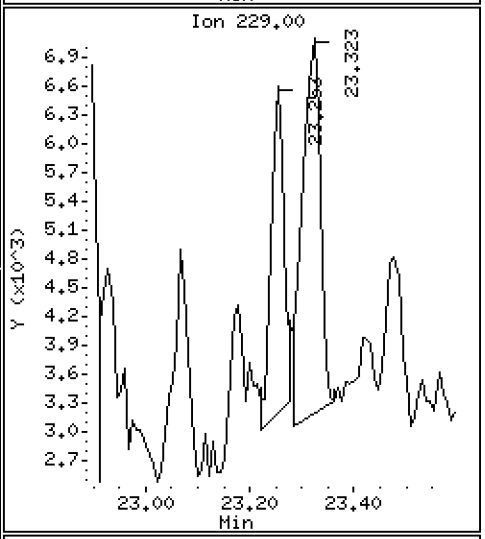
68 Benzo(a)anthracene

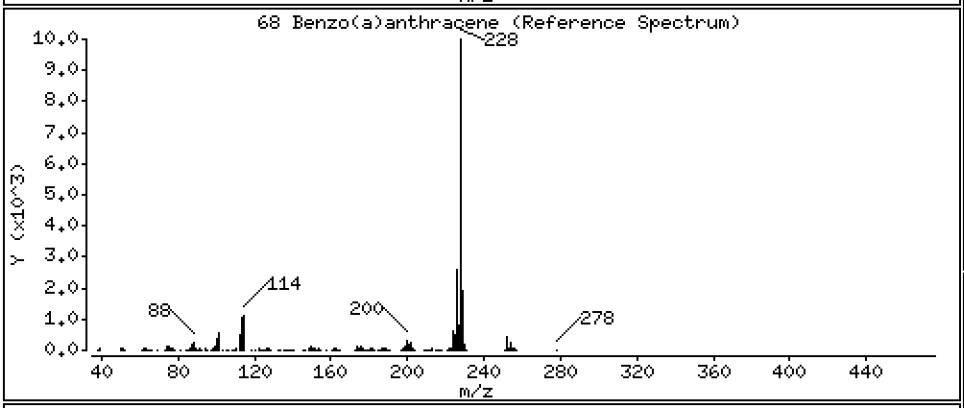
Concentration: 0.3490 ug/mL

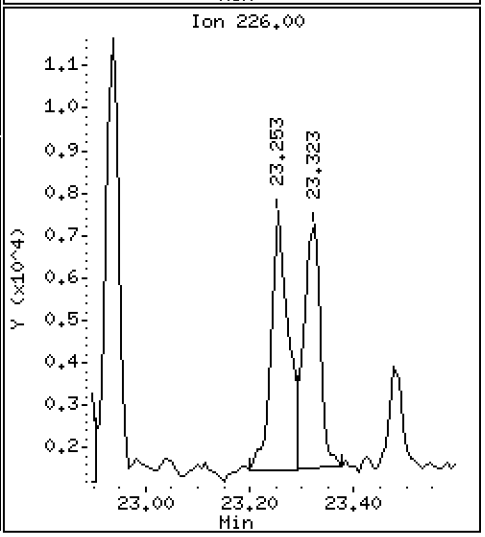


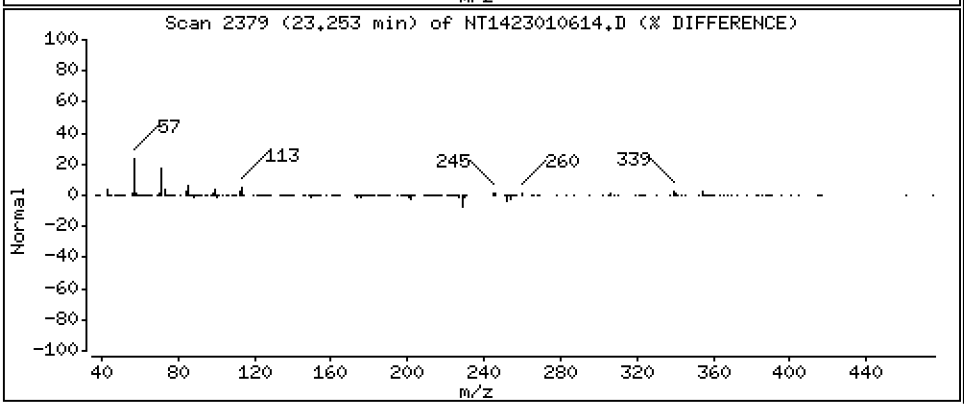












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D

Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

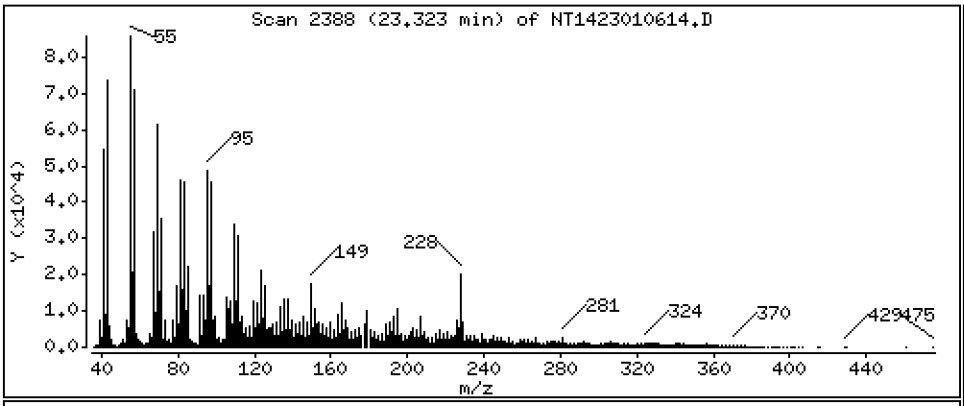
Operator: VTS

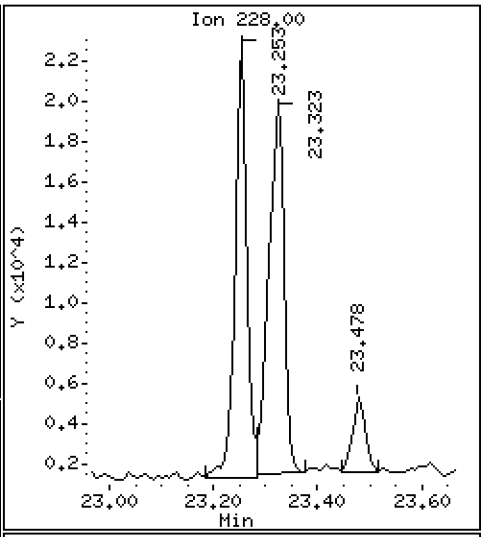
Column phase: ZB-5msi

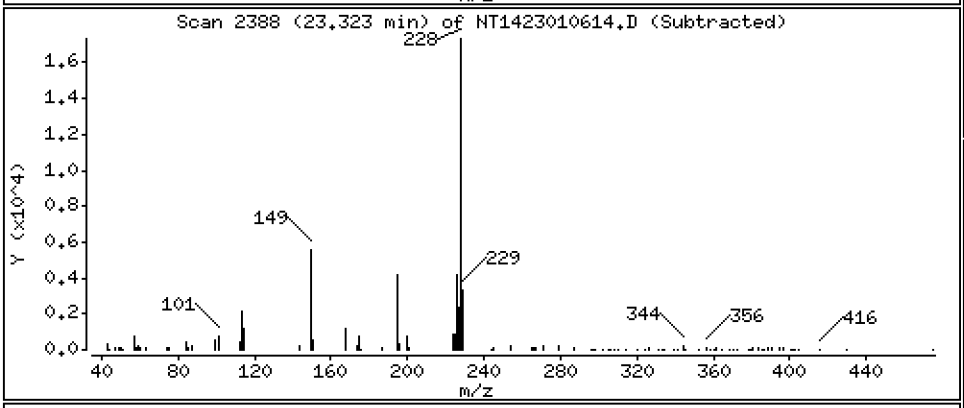
Column diameter: 0.25

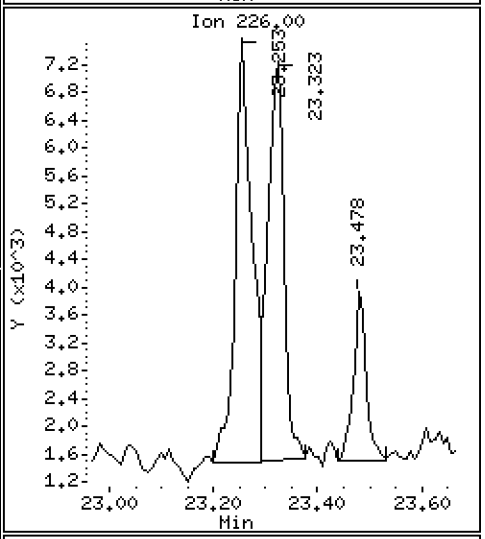
71 Chrysene

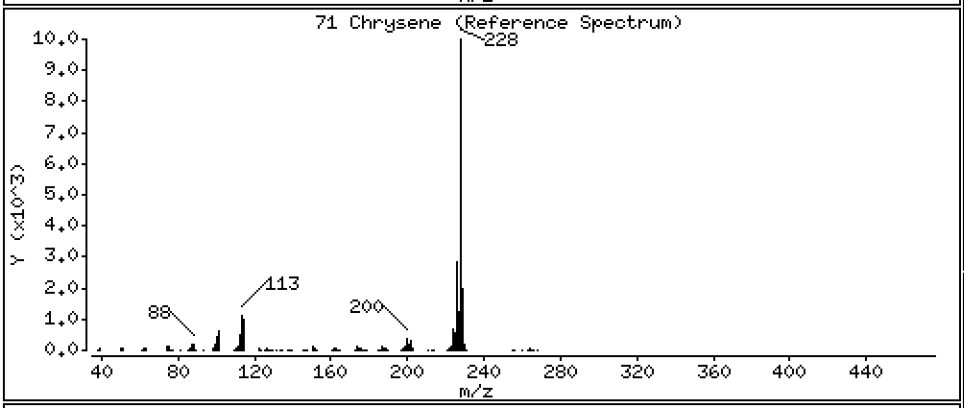
Concentration: 0.3963 ug/mL

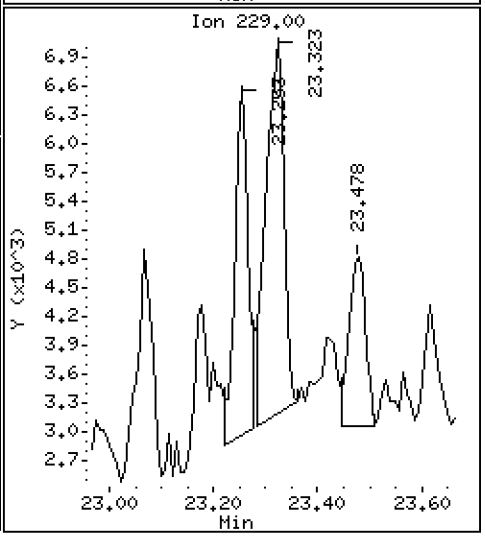


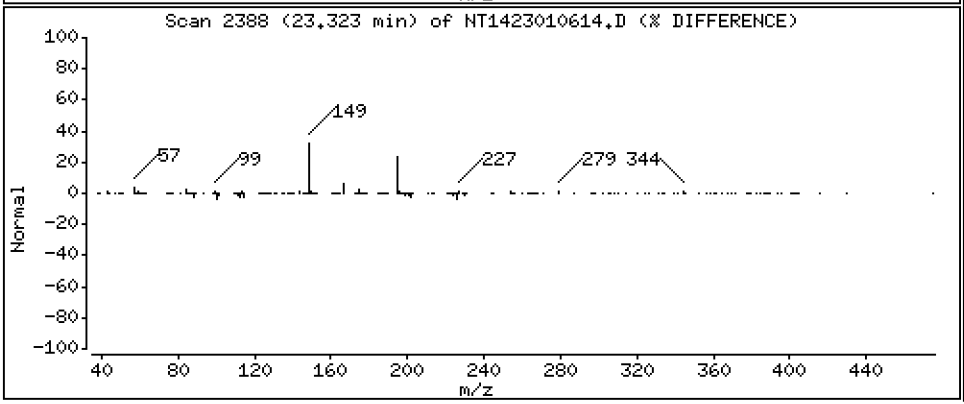












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

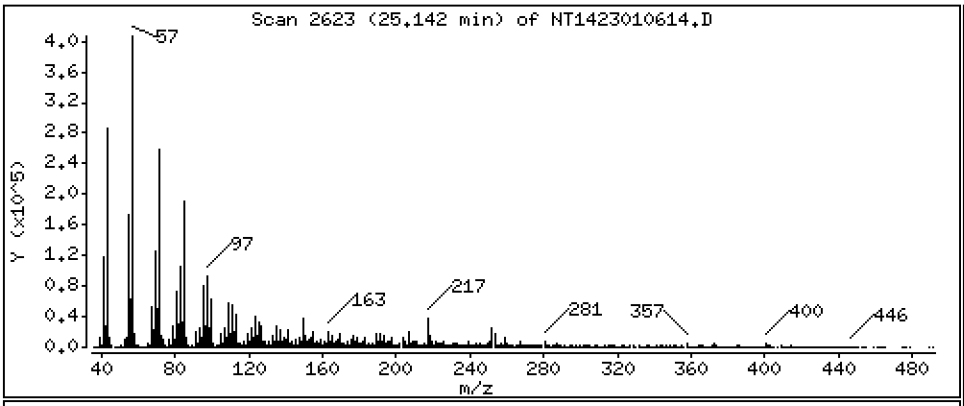
Operator: VTS

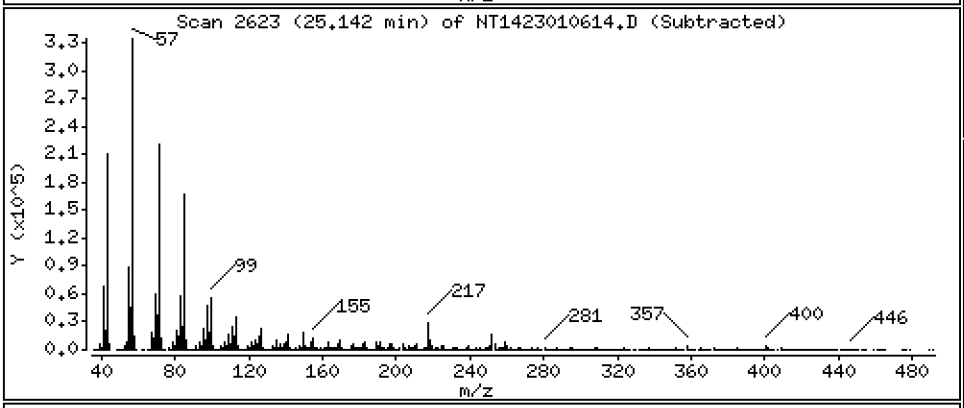
Column phase: ZB-5msi

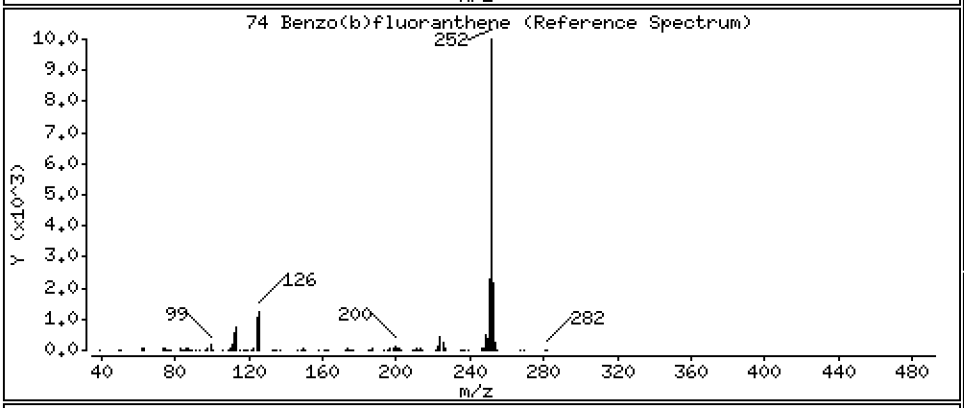
Column diameter: 0.25

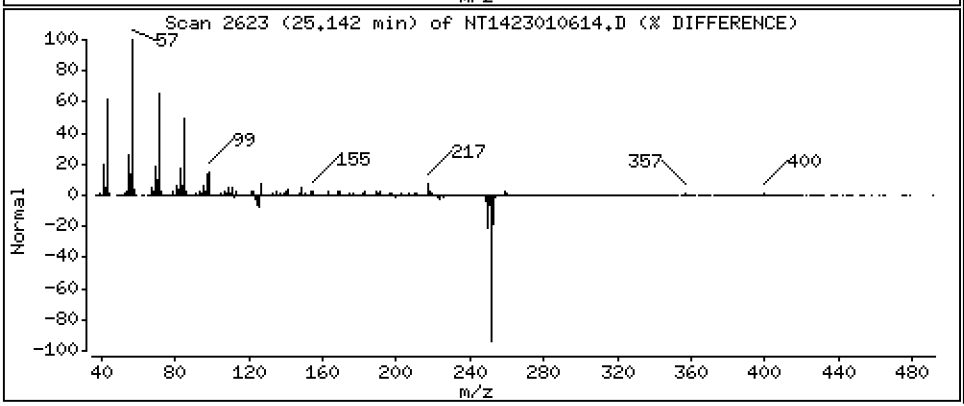
74 Benzo(b)fluoranthene

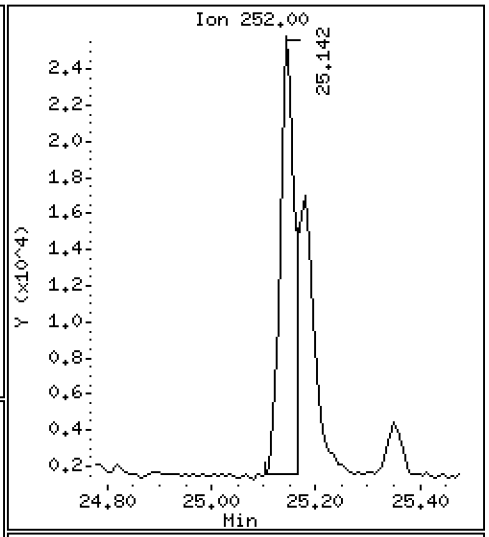
Concentration: 0.3912 ug/mL

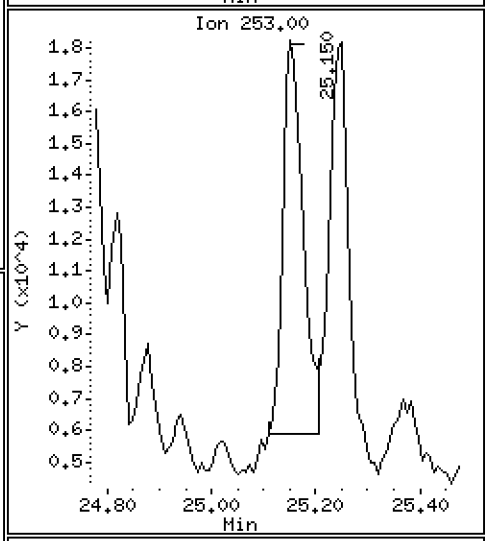


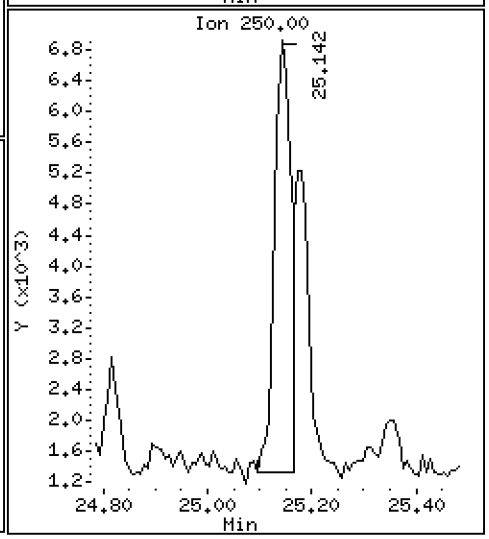












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

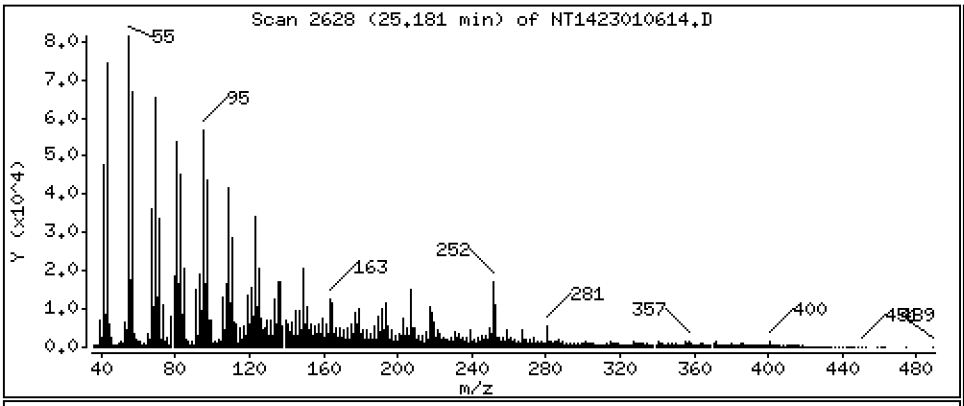
Operator: VTS

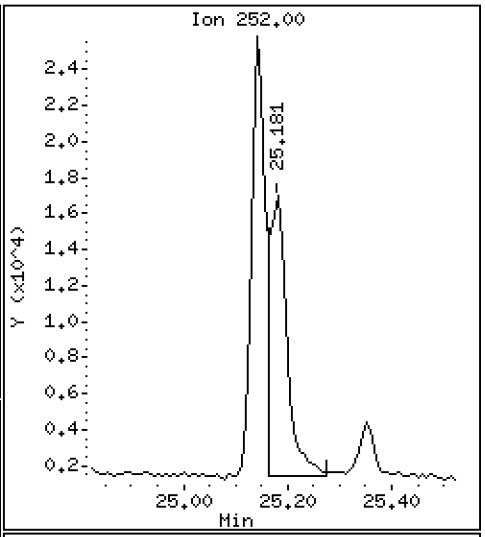
Column phase: ZB-5msi

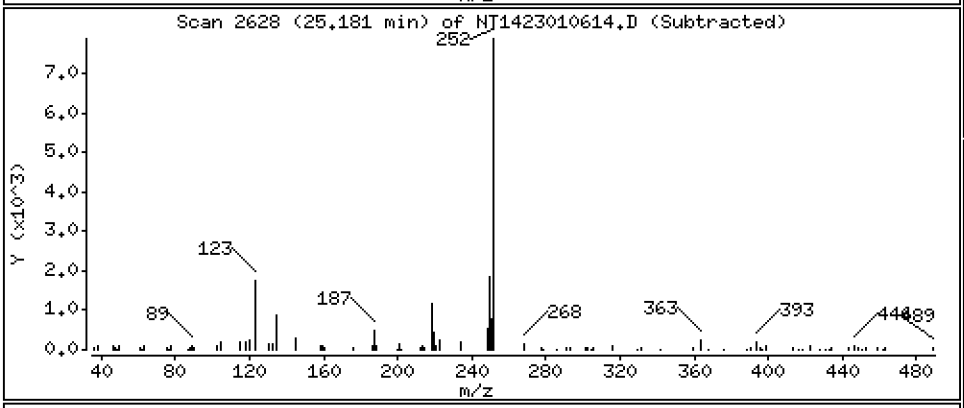
Column diameter: 0.25

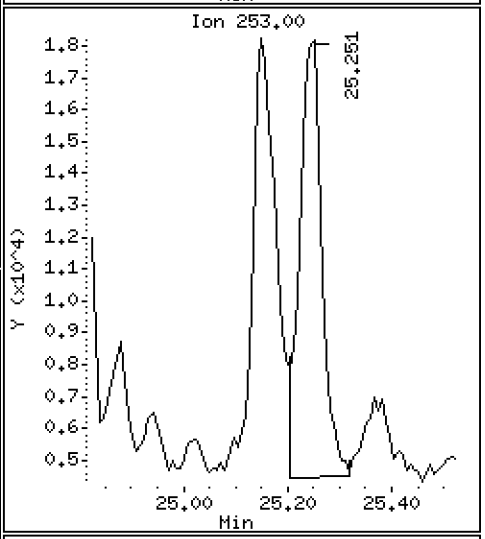
75 Benzo(k)fluoranthene

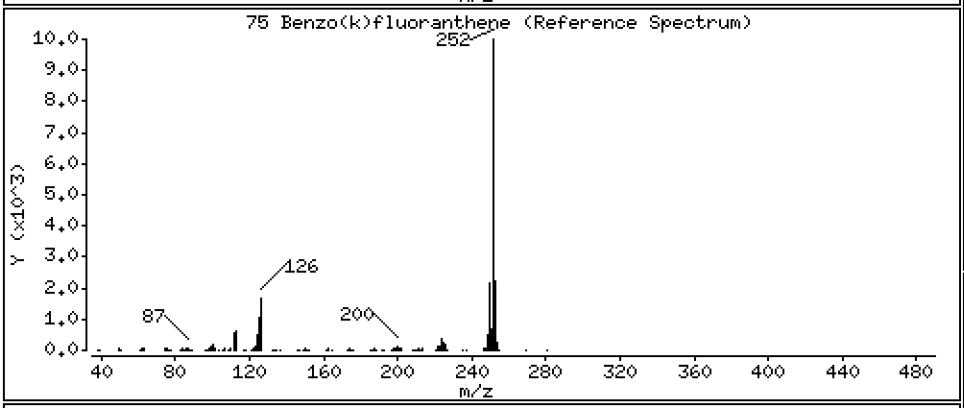
Concentration: 0.2912 ug/mL

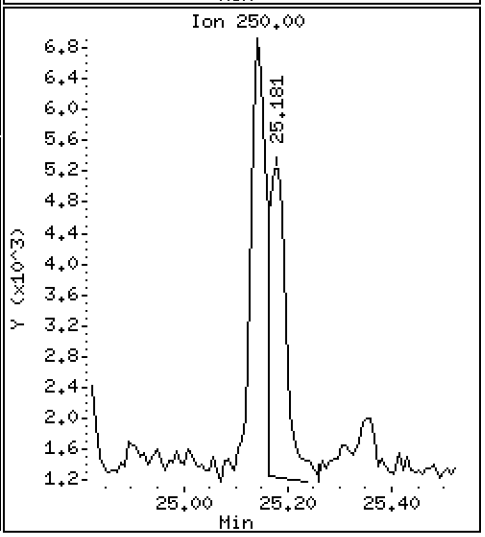


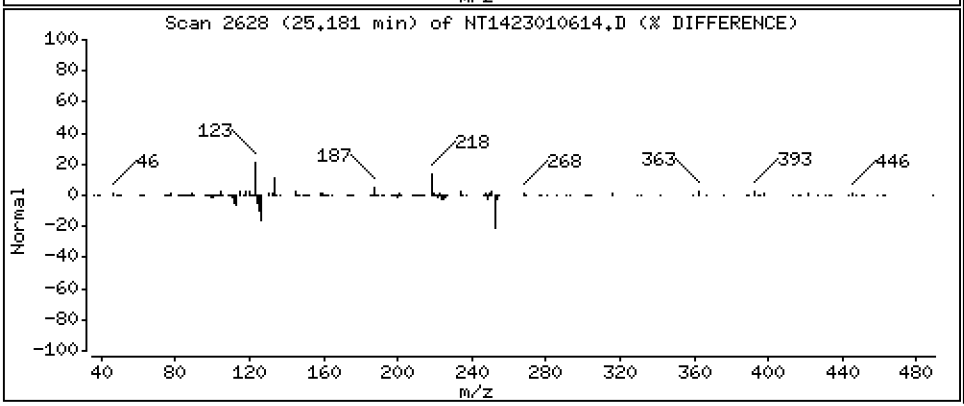












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

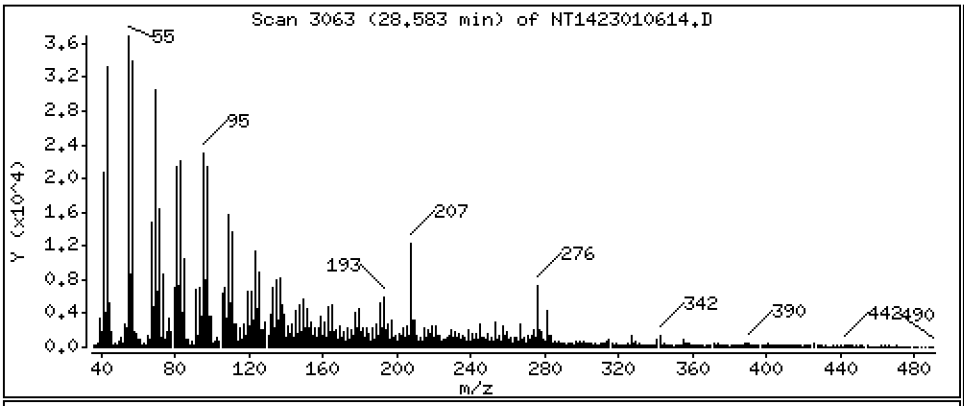
Operator: VTS

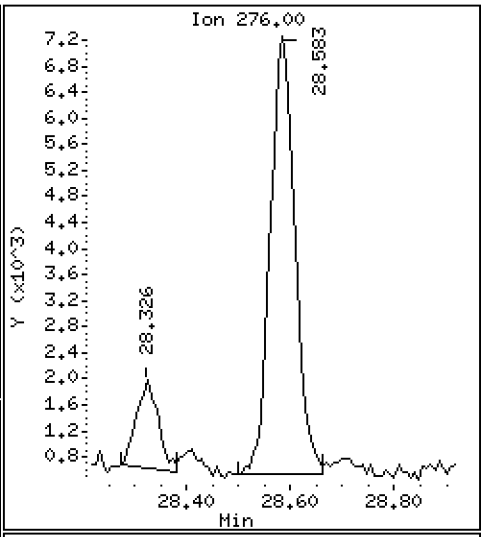
Column phase: ZB-5msi

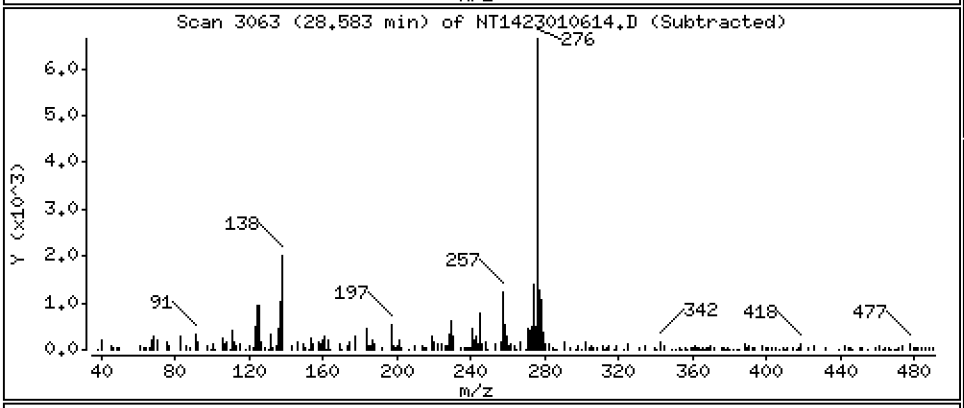
Column diameter: 0.25

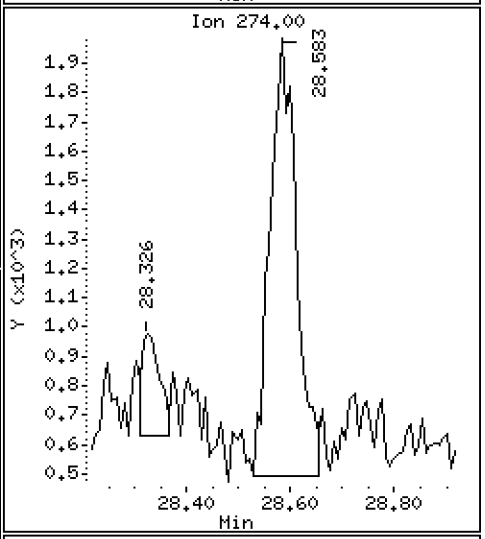
78 Indeno(1,2,3-cd)pyrene

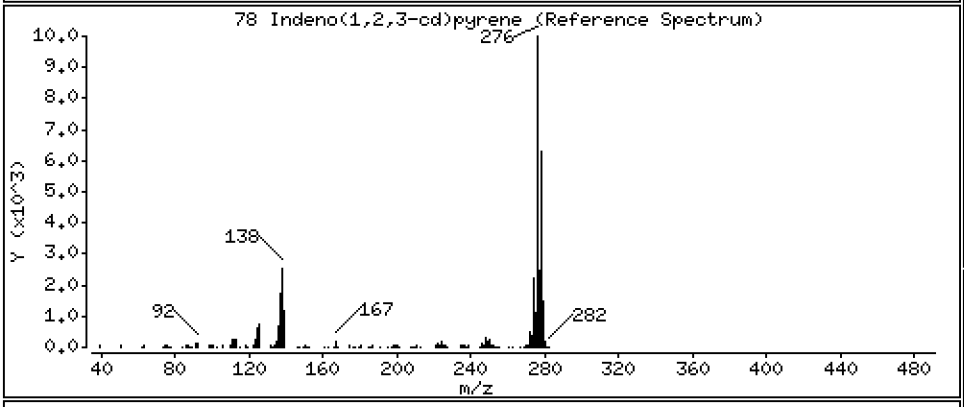
Concentration: 0.1942 ug/mL

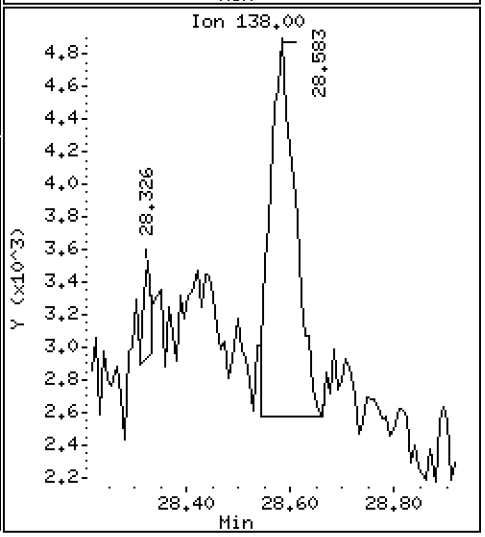


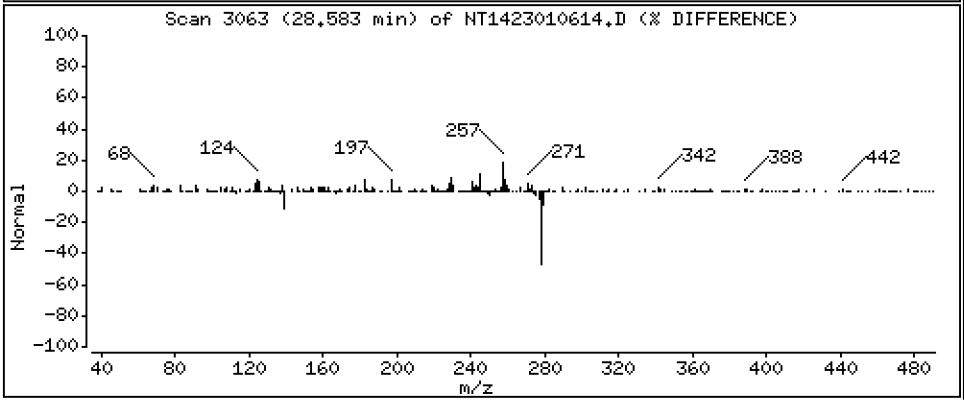












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

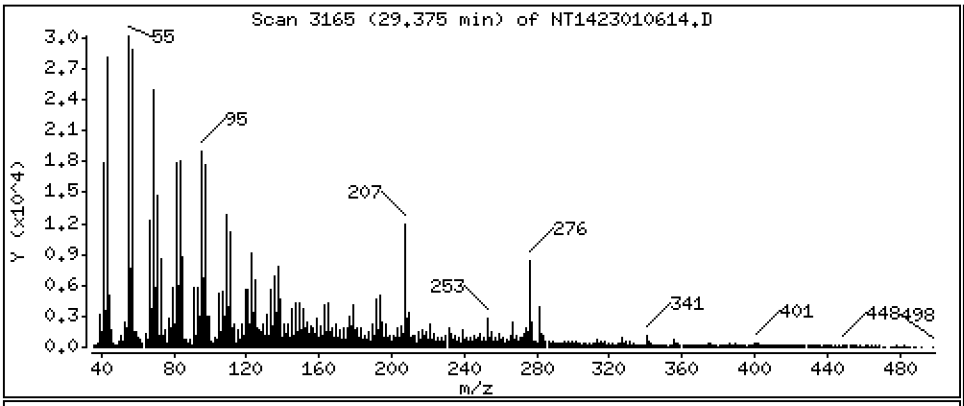
Operator: VTS

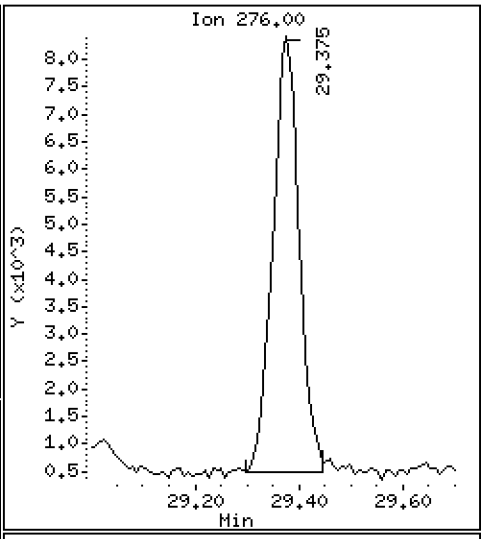
Column phase: ZB-5msi

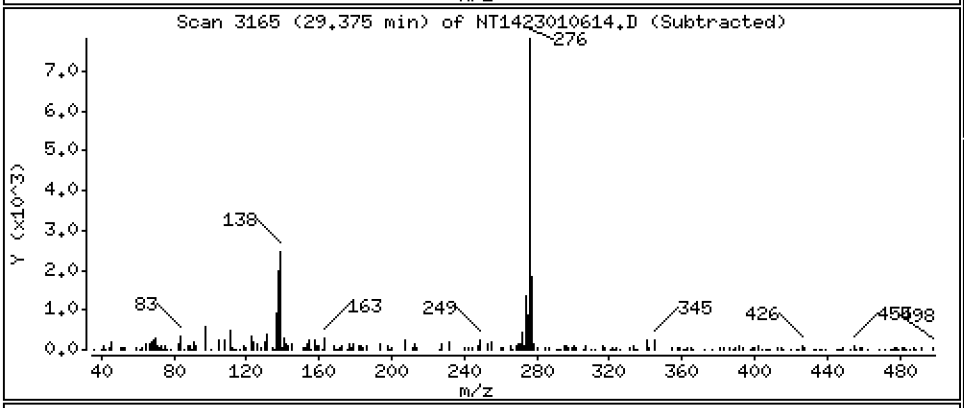
Column diameter: 0.25

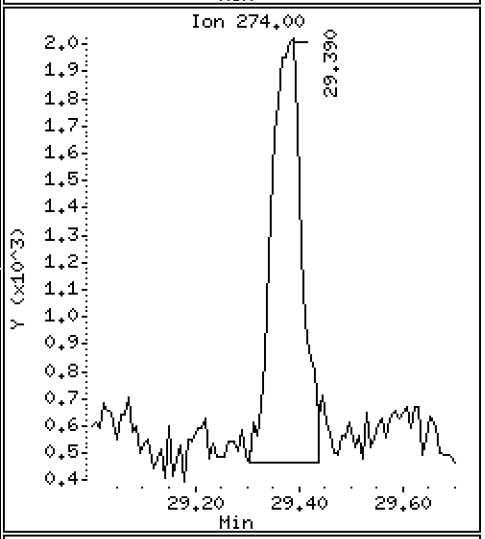
80 Benzo(g,h,i)perylene

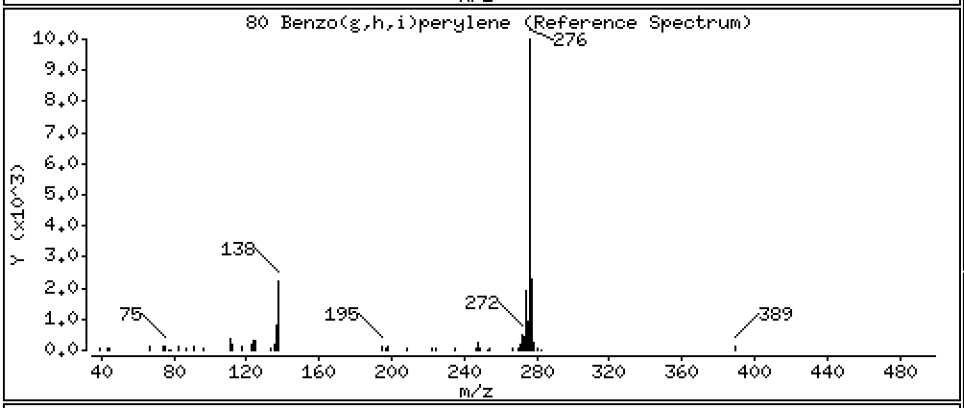
Concentration: 0.2936 ug/mL

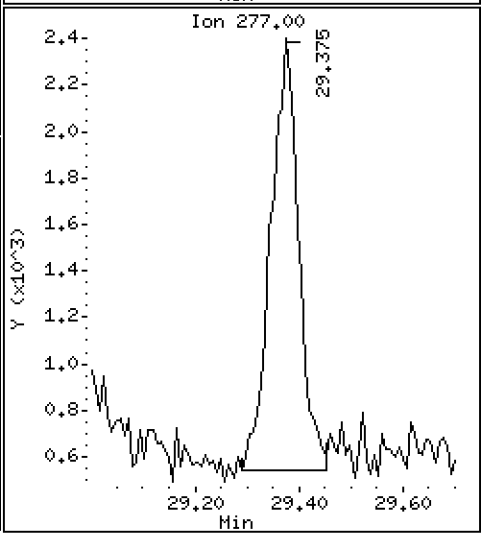


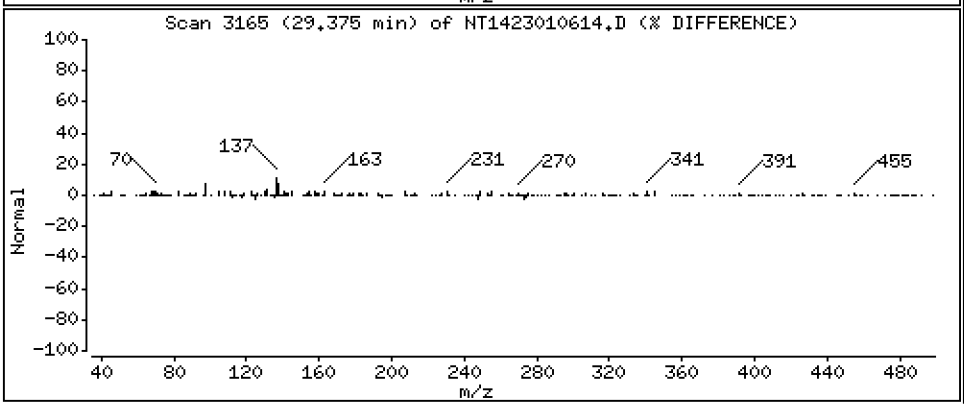












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

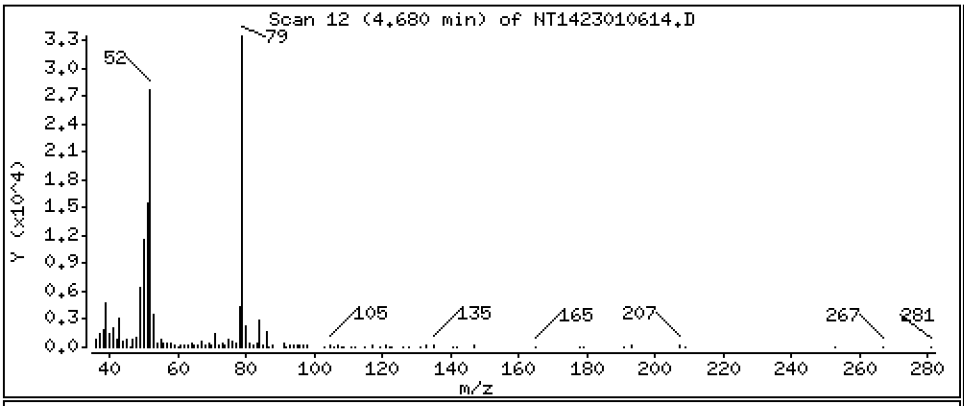
Operator: VTS

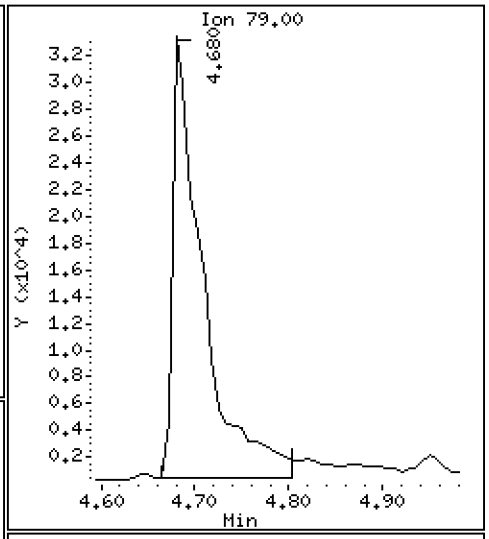
Column phase: ZB-5msi

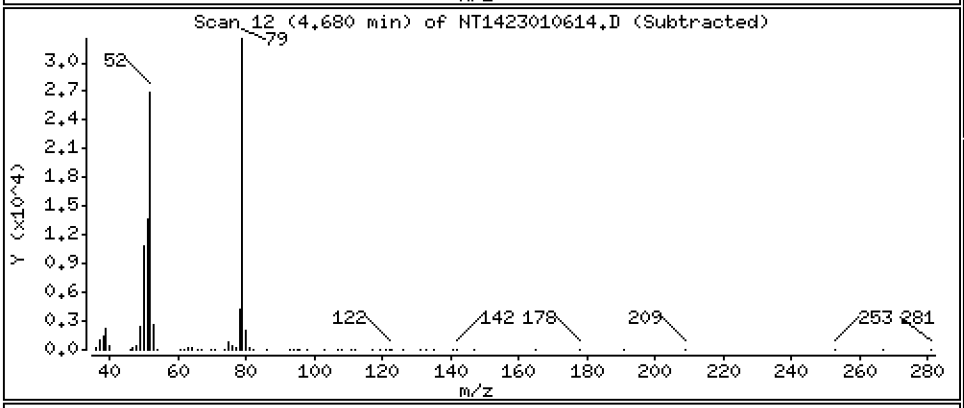
Column diameter: 0.25

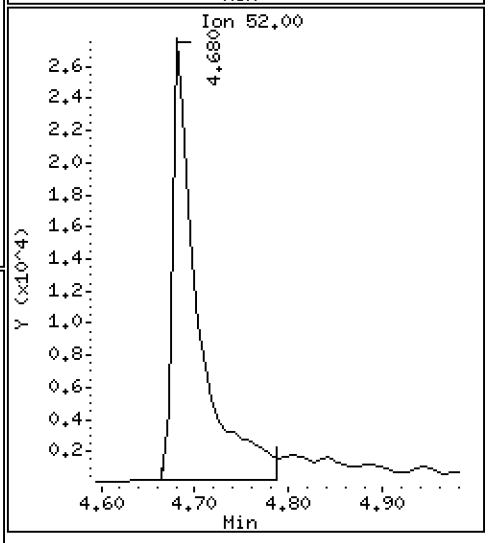
103 Pyridine

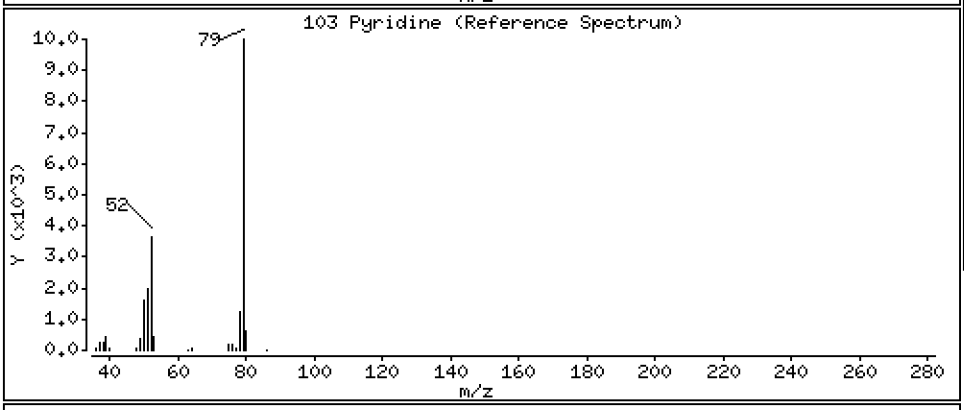
Concentration: 0.8077 ug/mL

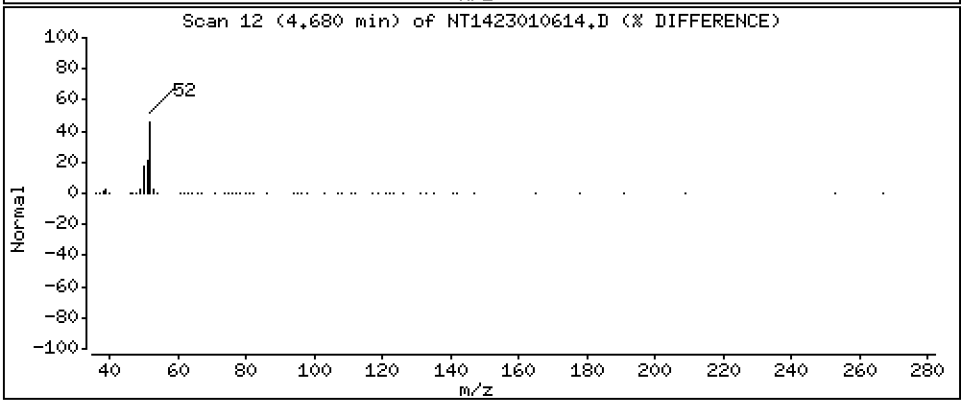












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

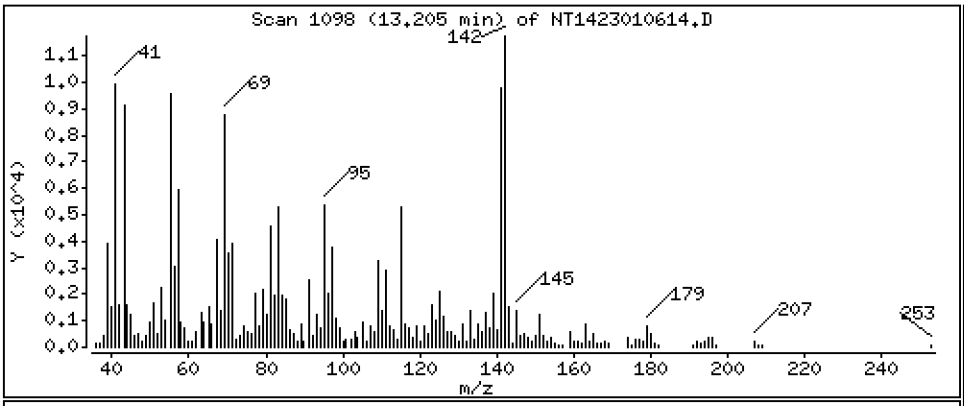
Operator: VTS

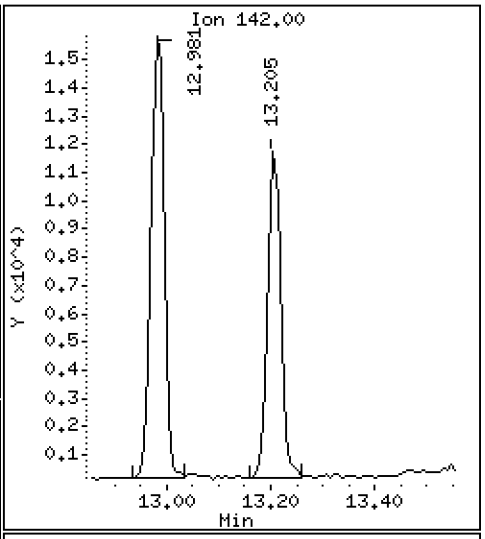
Column phase: ZB-5msi

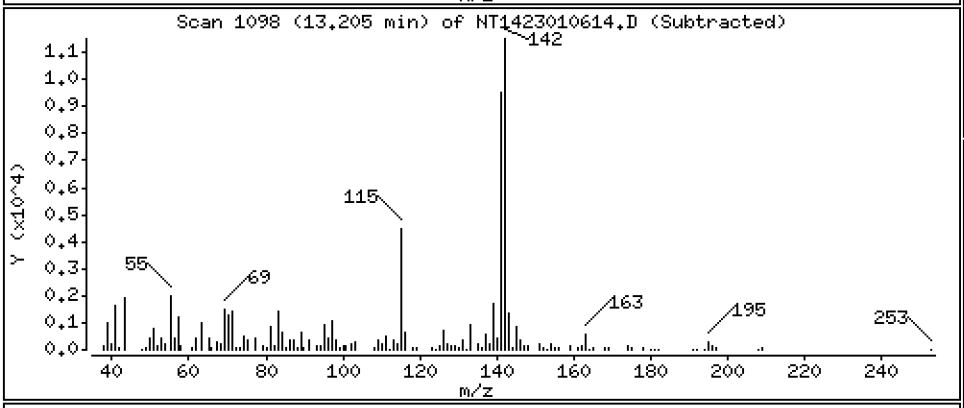
Column diameter: 0.25

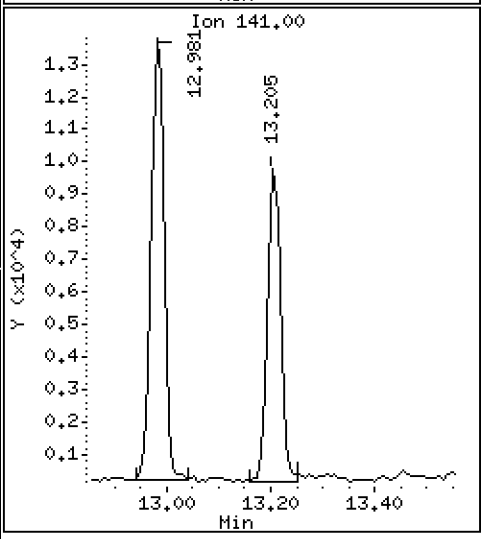
105 1-methylnaphthalene

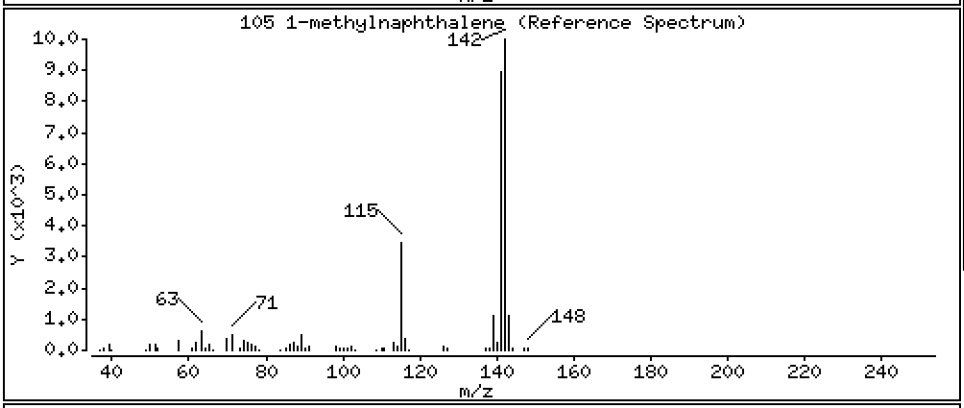
Concentration: 0.2154 ug/mL

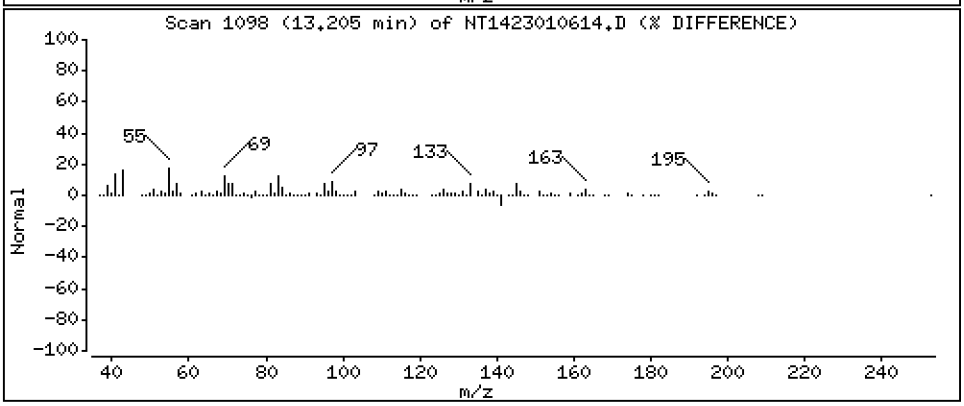












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Date : 06-JAN-2023 19:26

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-43

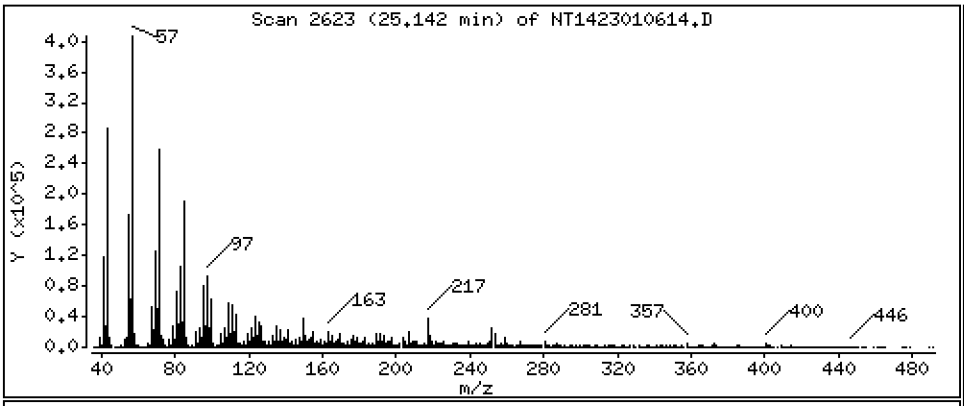
Operator: VTS

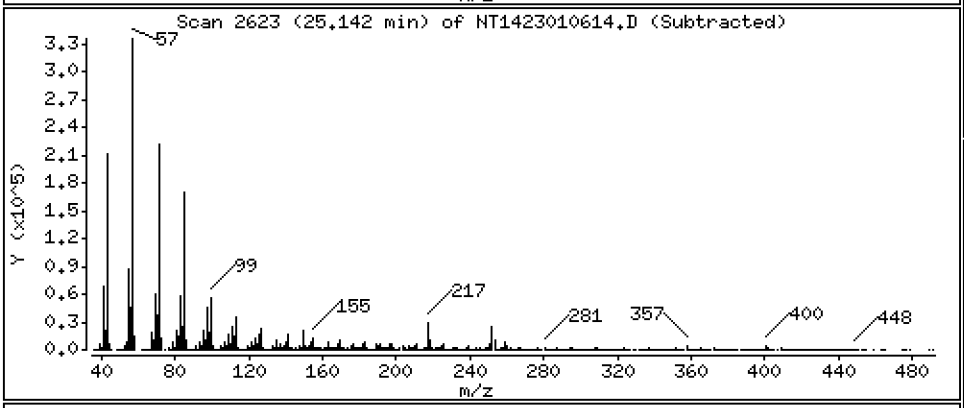
Column phase: ZB-5msi

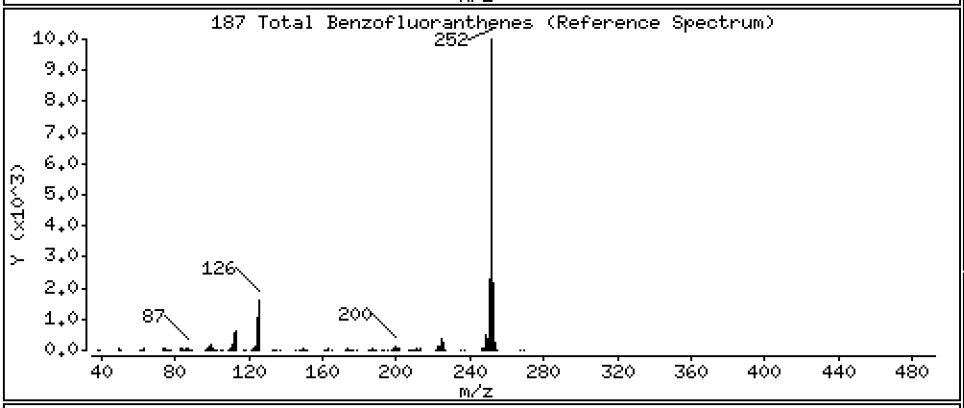
Column diameter: 0.25

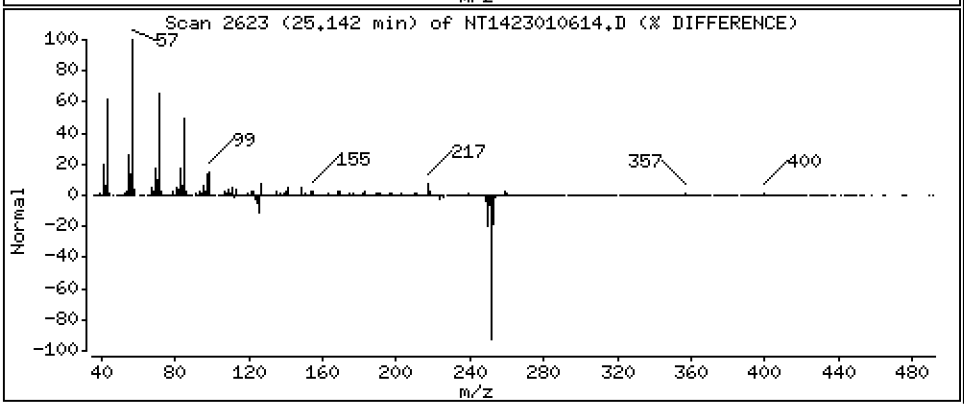
187 Total Benzofluoranthenes

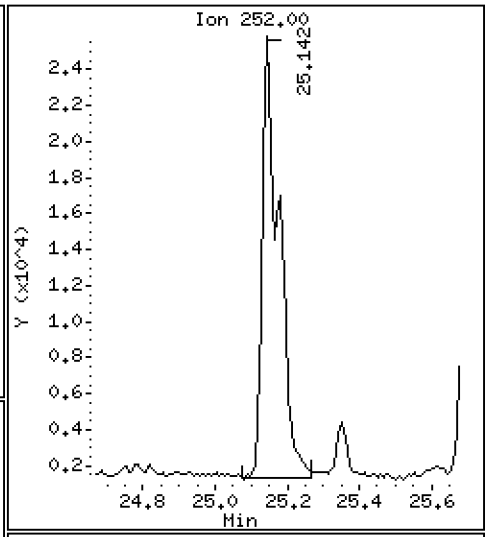
Concentration: 0.6699 ug/mL

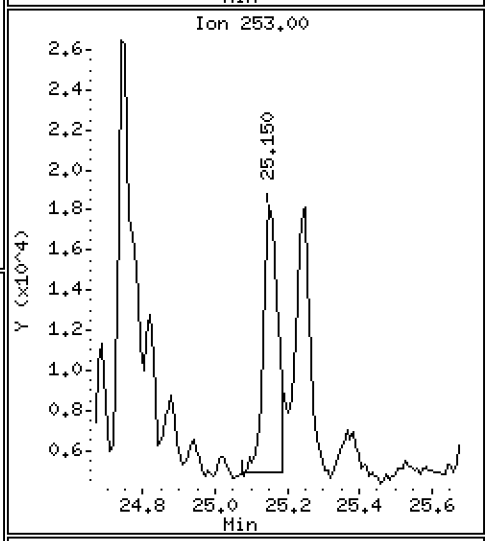


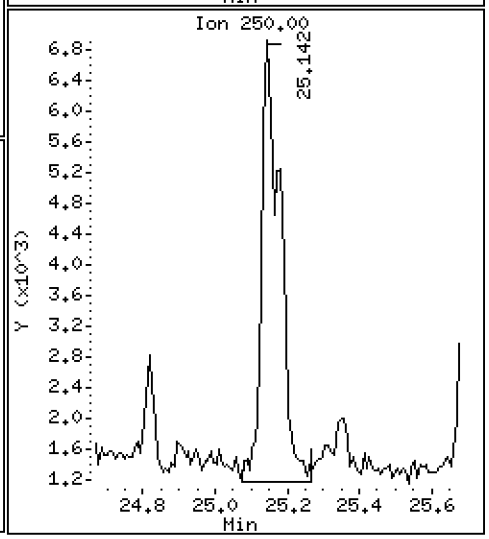












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010614.D
Lab Smp Id: 22L0246-43
Inj Date : 06-JAN-2023 19:26 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-43
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 14
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.826	6.811	(0.755)	240375	5.65525	5.655
$ 2	Phenol-d5	99	8.410	8.403	(0.931)	301824	5.74594	5.746
3	Phenol	94	8.433	8.426	(0.933)	10080	0.16888	0.1689
$ 5	2-Chlorophenol-d4	132	8.680	8.673	(0.961)	269011	6.09789	6.098
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.036	9.037	(1.000)	132673	4.00000	
9	1,4-Dichlorobenzene	146	9.067	9.068	(1.003)	1370	0.02815	0.02815
$ 10	1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.040)	117069	3.88264	3.883
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	10.131	10.131	(0.878)	195988	4.53199	4.532
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	11.279	11.263	(0.978)	876	0.02318	0.02318
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.534	11.542	(1.000)	512120	4.00000	
28	Naphthalene	128	11.581	11.581	(1.004)	257178	2.04060	2.041
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	12.980	12.981	(1.125)	26577	0.28748	0.2875
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	380179	4.79774	4.798
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.853	14.853	(0.979)	87937	0.85552	0.8555
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	235682	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.232	15.232	(1.004)	25224	0.39565	0.3957
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.565	15.565	(1.026)	20959	0.21923	0.2192
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.129	16.137	(1.063)	13721	0.15188	0.1519
	49	Fluorene	166	16.284	16.276	(1.073)	23997	0.23595	0.2359
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	85847	7.46772	7.468
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.222	18.215	(1.000)	432377	4.00000	
	60	Phenanthrene	178	18.269	18.261	(1.003)	133267	1.18214	1.182
	61	Anthracene	178	18.362	18.354	(1.008)	30568	0.28403	0.2840
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	20.690	20.652	(0.889)	151044	1.43222	1.432
	65	Pyrene	202	21.100	21.077	(0.906)	157626	1.42154	1.422
$	66	Terphenyl-d14	244	21.379	21.364	(0.918)	398221	5.06491	5.065
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.253	23.245	(0.999)	34631	0.34903	0.3490
*	69	Chrysene-d12	240	23.284	23.268	(1.000)	327535	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.322	23.315	(1.002)	37143	0.39631	0.3963
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	24.306	24.298	(1.000)	633775	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	25.142	25.126	(0.970)	47854	0.39125	0.3912
	75	Benzo(k)fluoranthene	252	25.180	25.173	(0.972)	36250	0.29119	0.2912(M)
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.916	25.901	(1.000)	389189	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.582	28.567	(1.103)	22445	0.19419	0.1942
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	29.374	29.351	(1.133)	28432	0.29364	0.2936
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.679	4.633	(0.518)	75129	0.80768	0.8077
	105	1-methylnaphthalene	142	13.205	13.205	(1.145)	19136	0.21543	0.2154
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.142	25.173	(0.970)	79212	0.66988	0.6699
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010614.D
Lab Smp Id: 22L0246-43
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	132673	-1.08
27 Naphthalene-d8	499117	249559	998234	512120	2.61
42 Acenaphthene-d10	260320	130160	520640	235682	-9.46
59 Phenanthrene-d10	432406	216203	864812	432377	-0.01
69 Chrysene-d12	317887	158944	635774	327535	3.04
134 Di-n-octylphthala	664061	332031	1328122	633775	-4.56
77 Perylene-d12	313716	156858	627432	389189	24.06

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	-0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.53	-0.07
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	-0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.07
134 Di-n-octylphthala	24.30	23.80	24.80	24.31	0.03
77 Perylene-d12	25.90	25.40	26.40	25.92	0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010614.D

Lab ID: 22L0246-43
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 19:26

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.518	0.513	0.0051	Pyridine

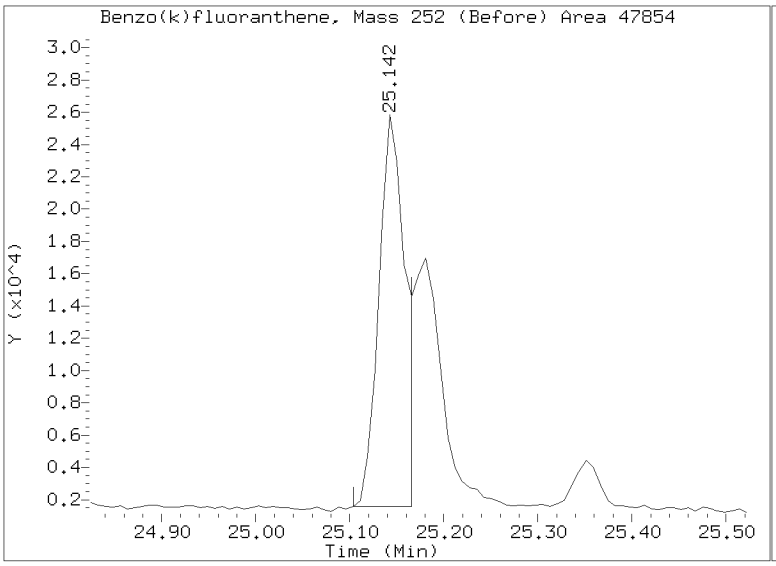
RRT check based on Ccal File: NT1423010602.D

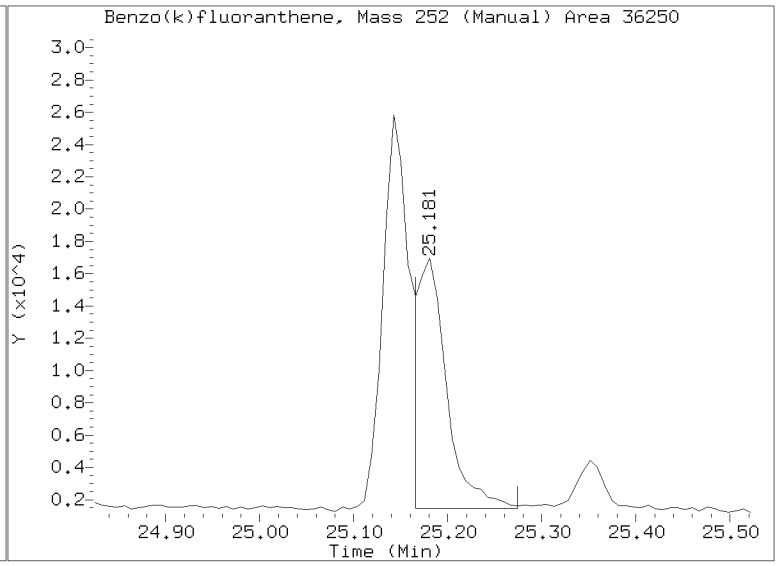
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010614.D
Injection Date: 06-JAN-2023 19:26
Lab ID:22L0246-43 Client ID:
Report Date: 01/09/2023 15:26





APPROVED

By Deenay Dunmore at 3:35 pm, Jan 09, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809C

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-44 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010615.D
% Solids:	48.28	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/06/23 20:02
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	20.71 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

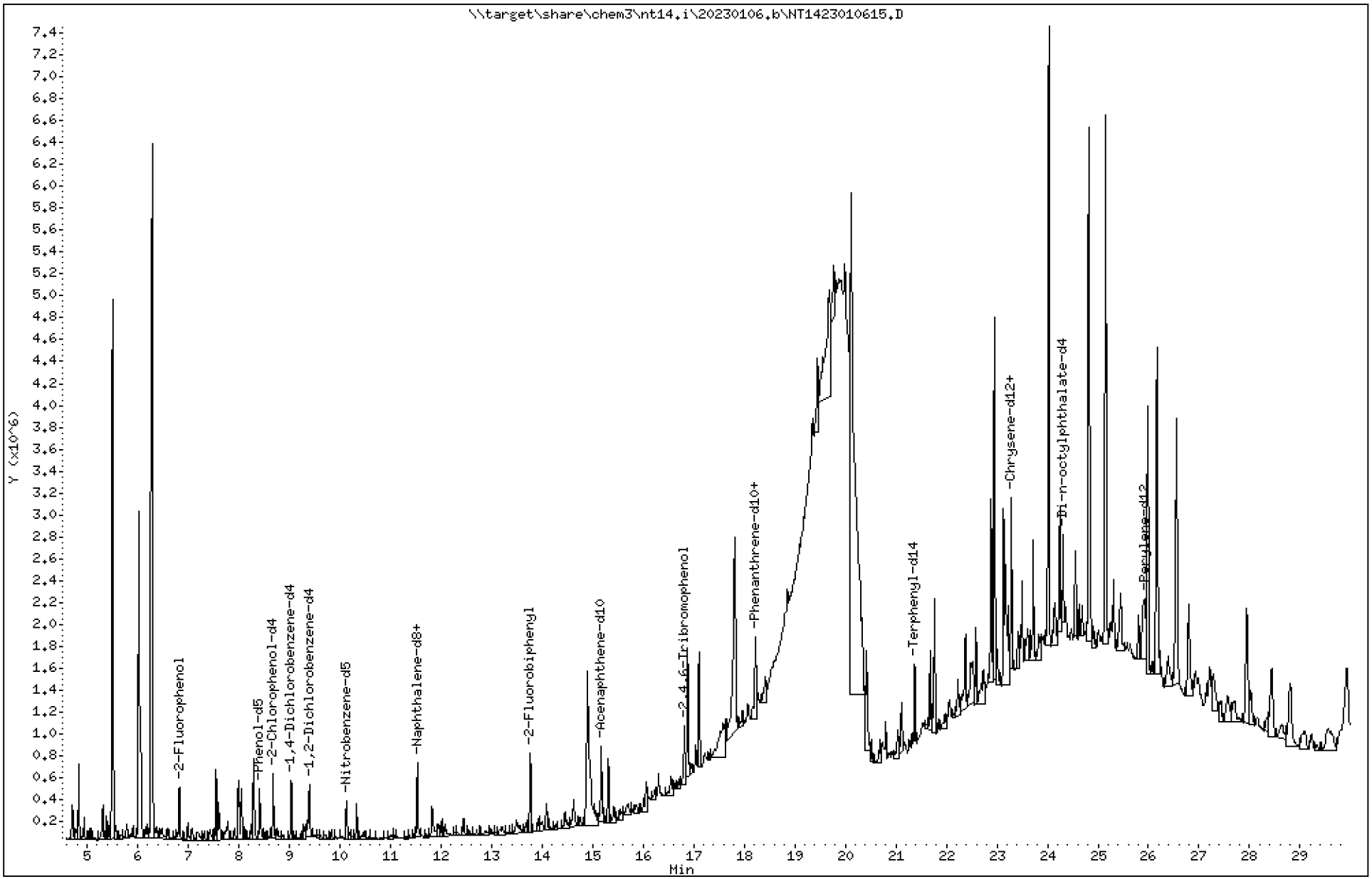
CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.06	472	94.4	37 - 120	Q

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D
Date : 06-JAN-2023 20:02
Client ID:
Sample Info: 22L0246-44

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

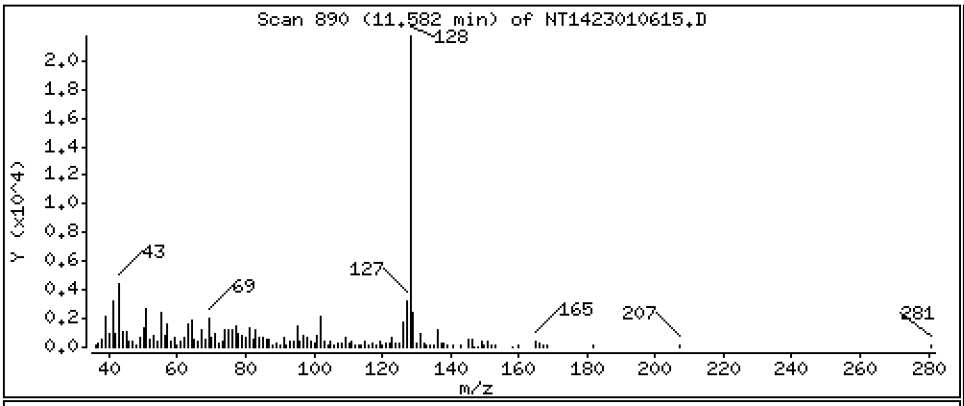
Operator: VTS

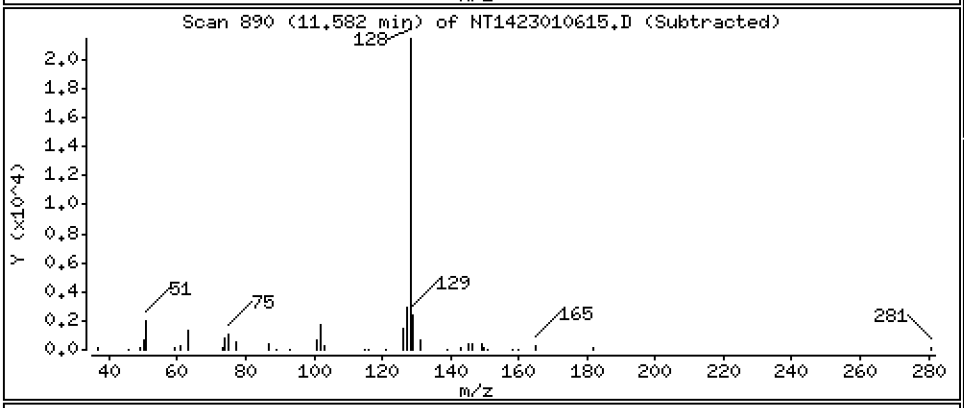
Column phase: ZB-5msi

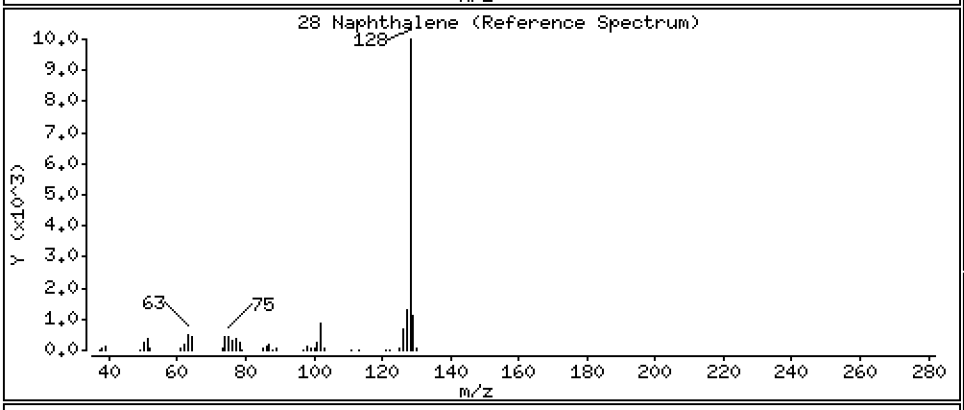
Column diameter: 0.25

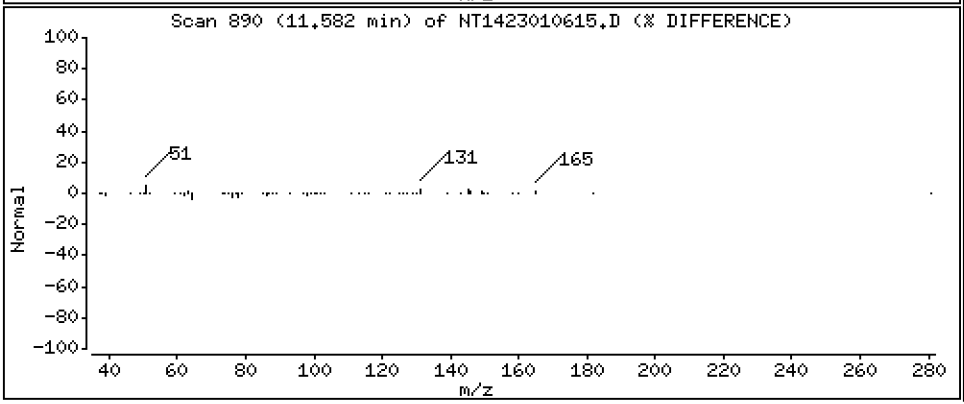
28 Naphthalene

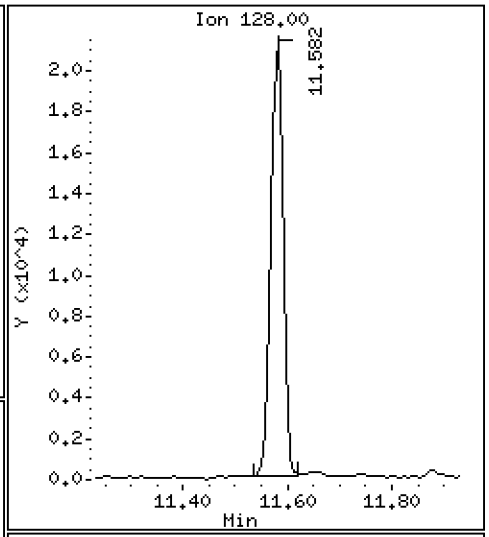
Concentration: 0.2727 ug/mL

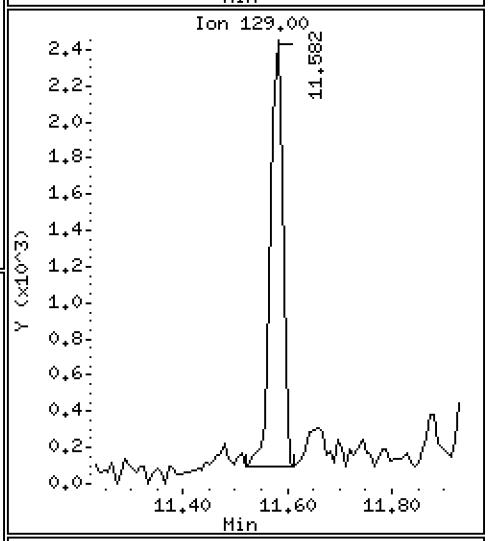


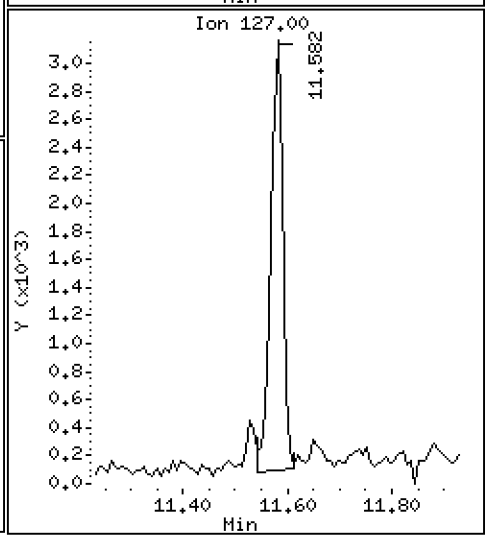












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

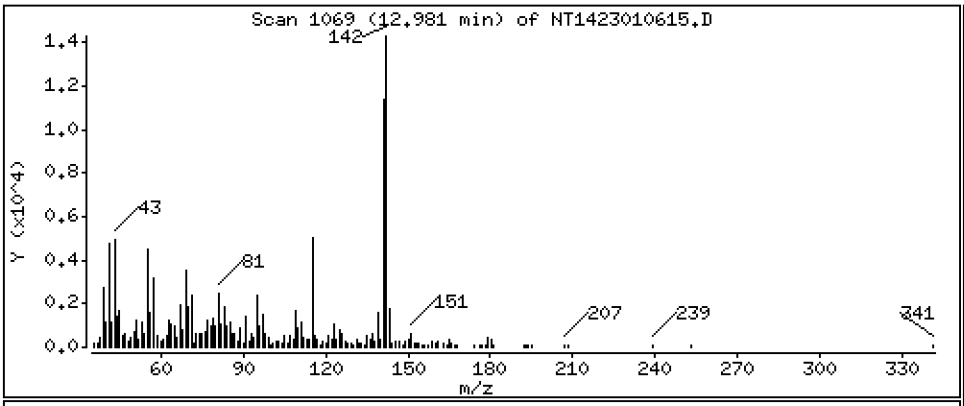
Operator: VTS

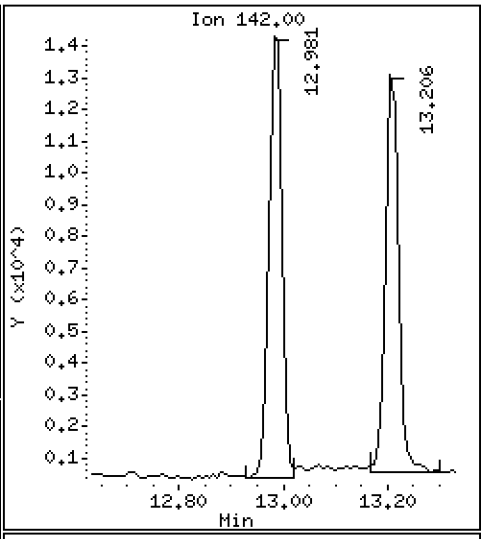
Column phase: ZB-5msi

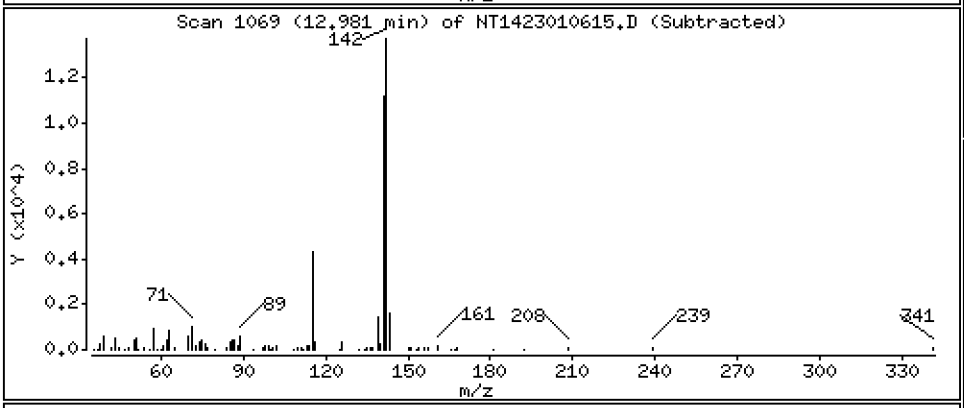
Column diameter: 0.25

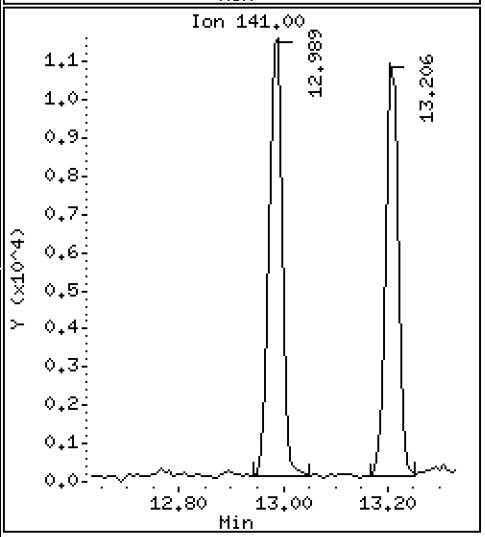
32 2-Methylnaphthalene

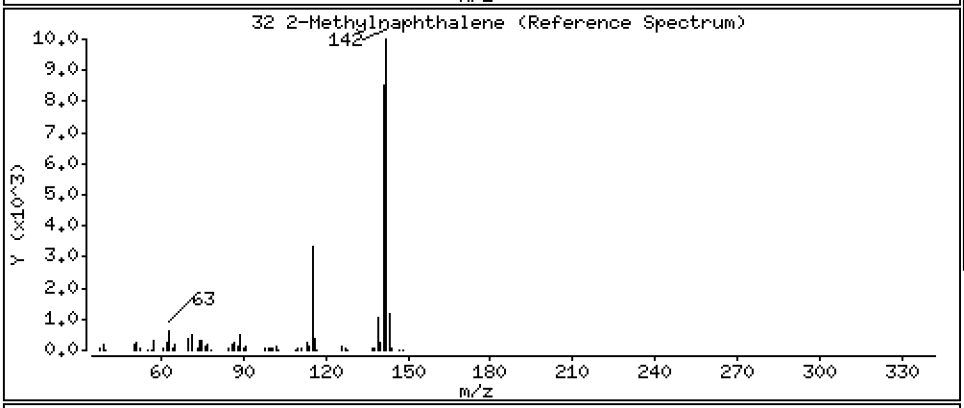
Concentration: 0.2651 ug/mL

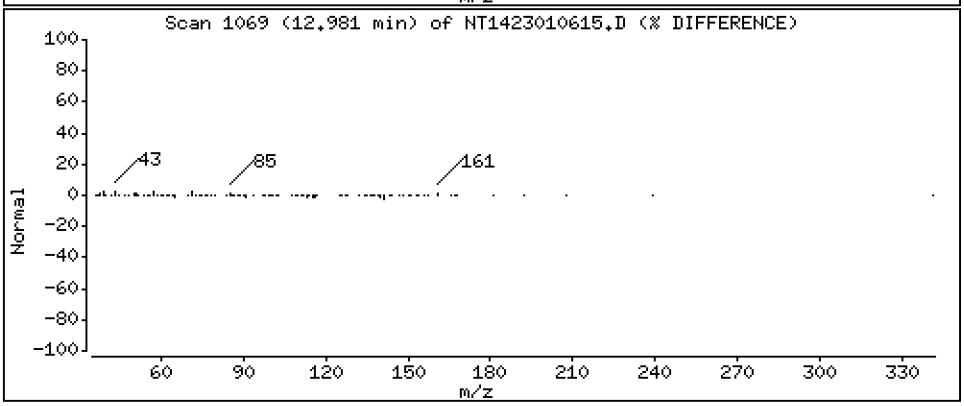












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

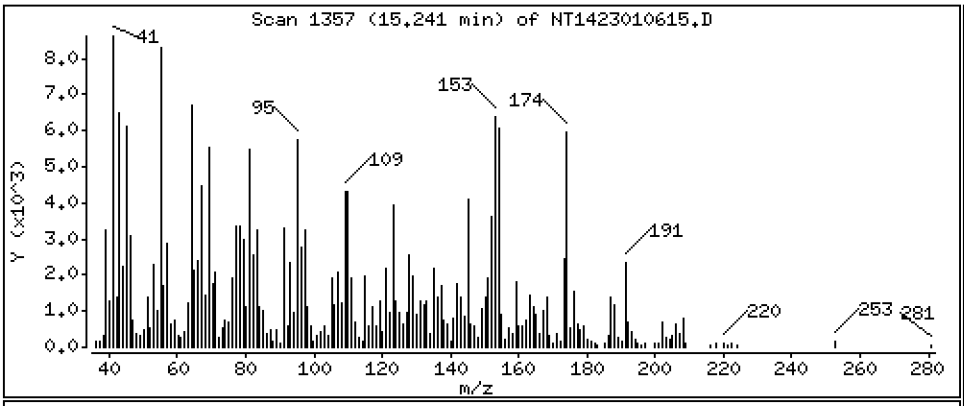
Operator: VTS

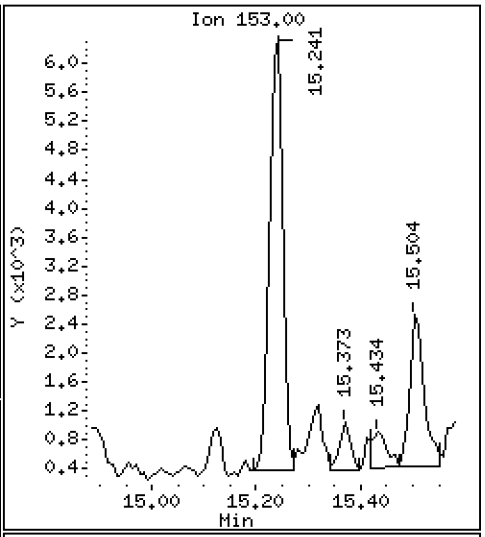
Column phase: ZB-5msi

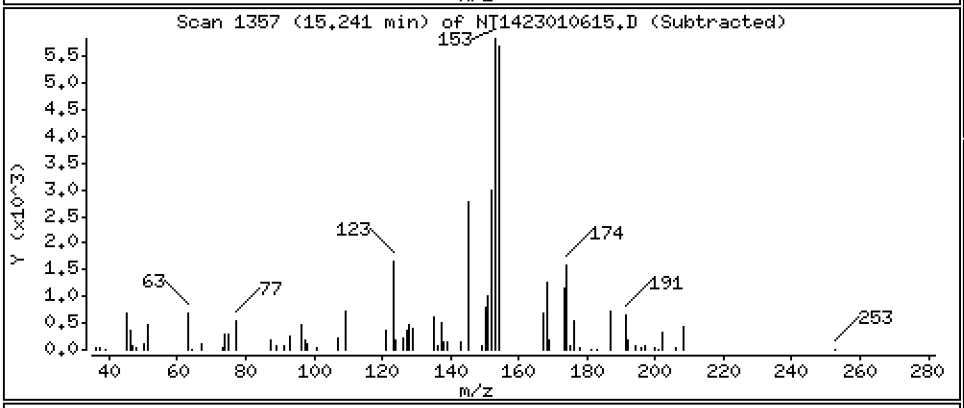
Column diameter: 0.25

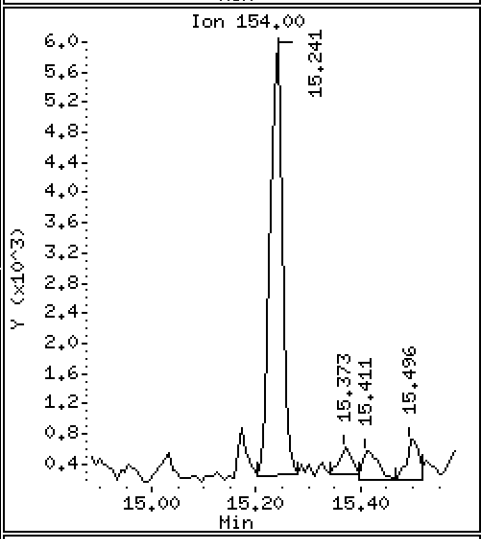
44 Acenaphthene

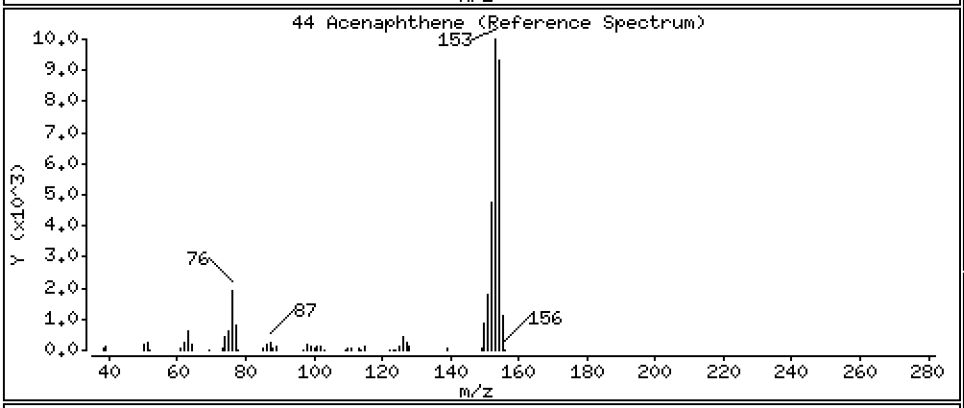
Concentration: 0.1529 ug/mL

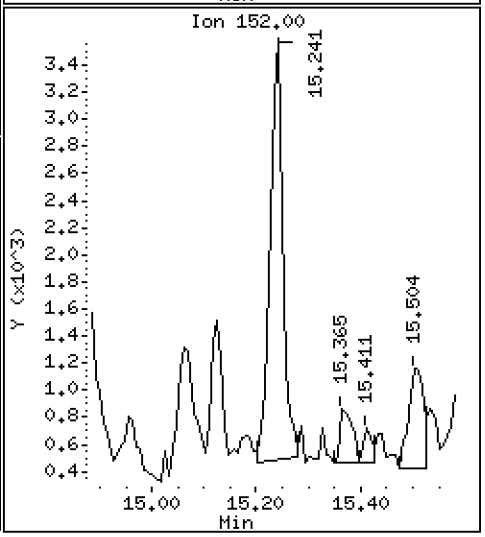


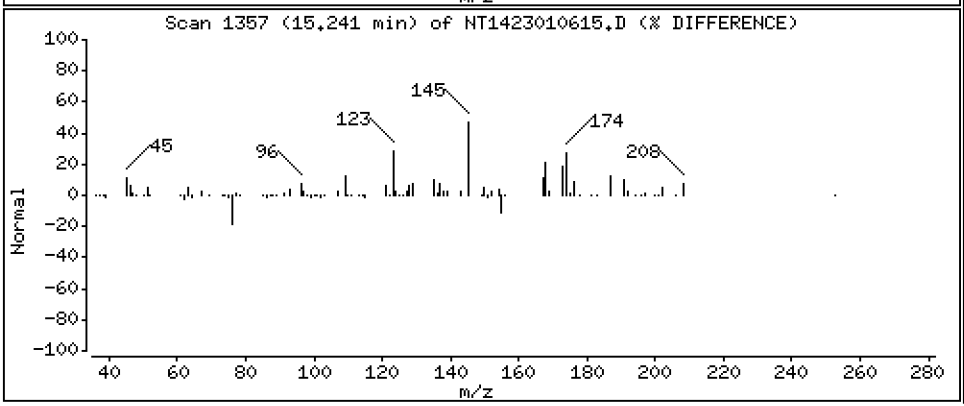












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

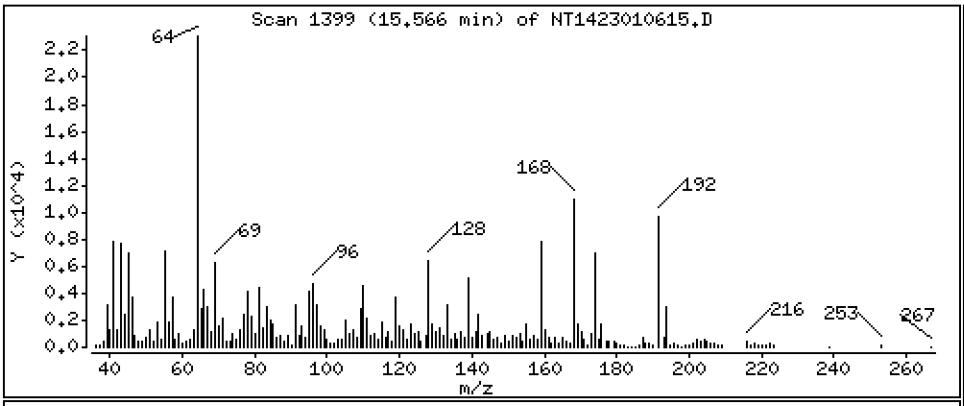
Operator: VTS

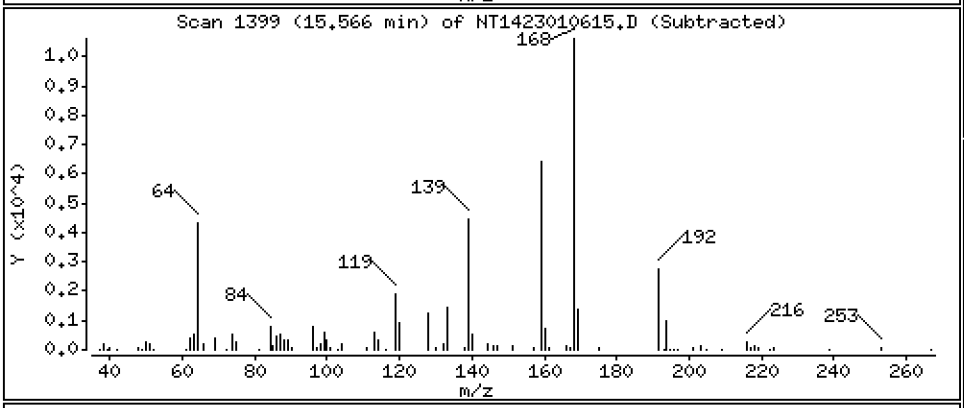
Column phase: ZB-5msi

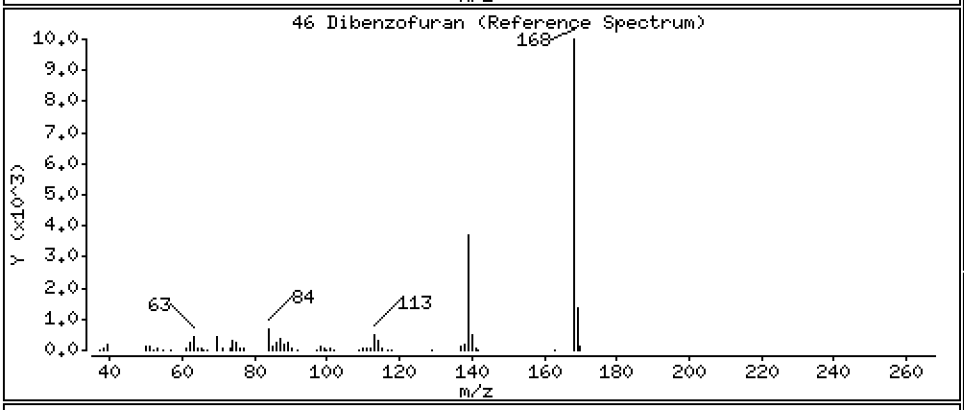
Column diameter: 0.25

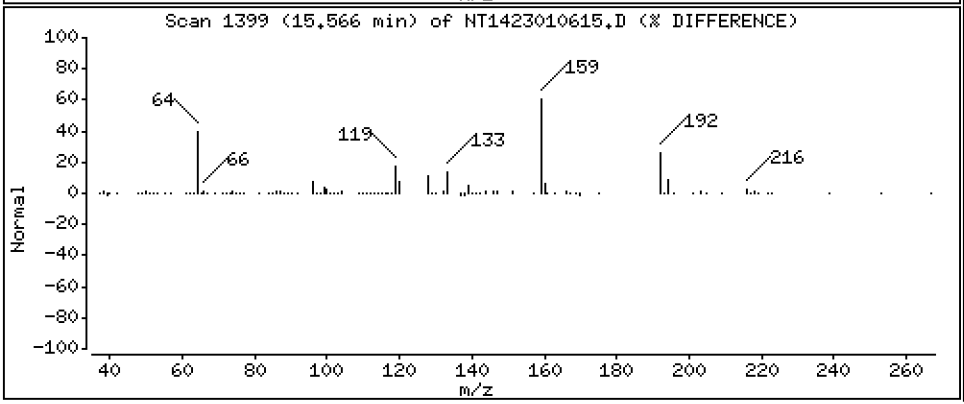
46 Dibenzofuran

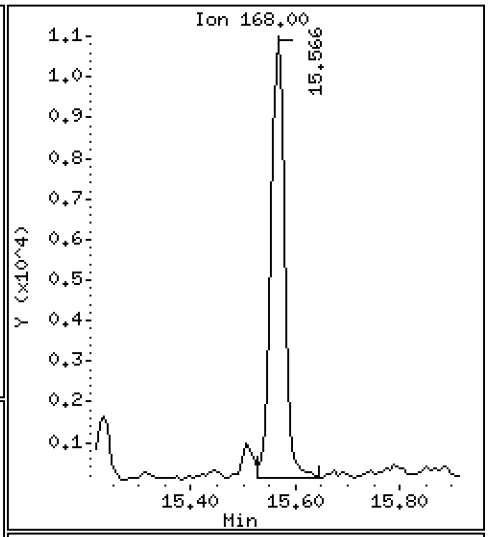
Concentration: 0.1864 ug/mL

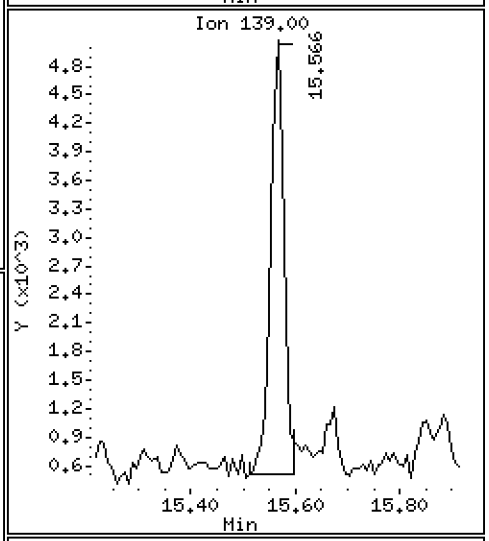


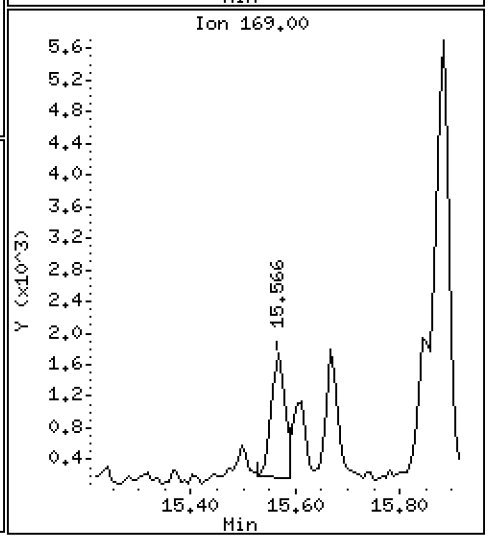












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

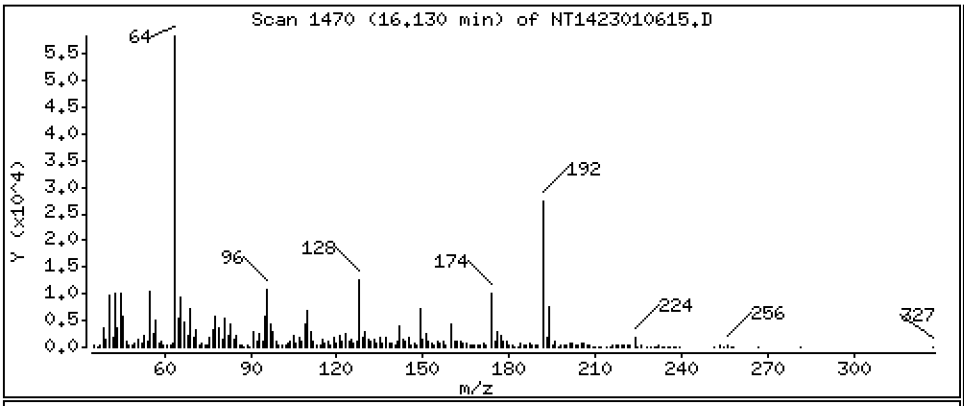
Operator: VTS

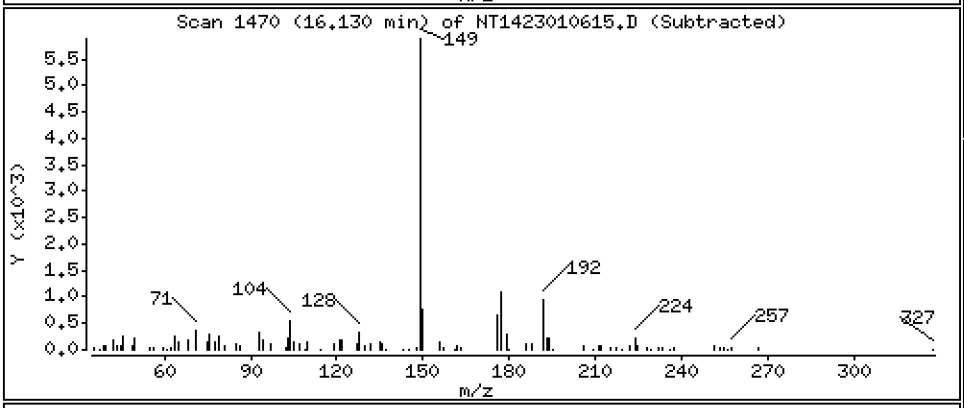
Column phase: ZB-5msi

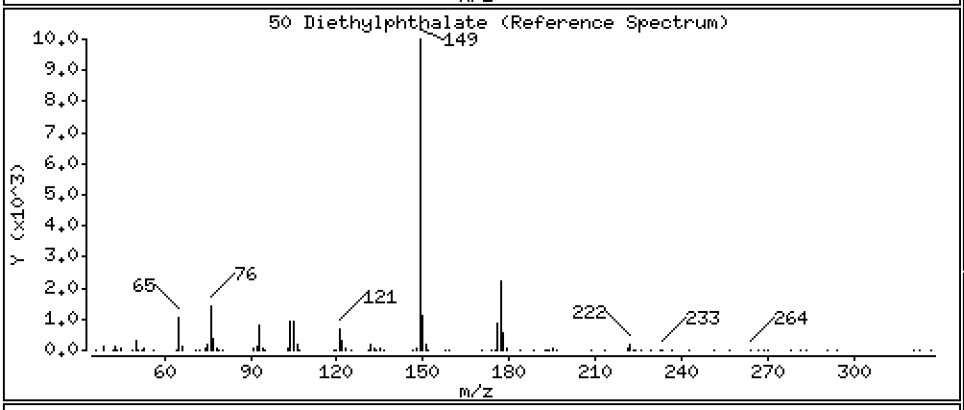
Column diameter: 0.25

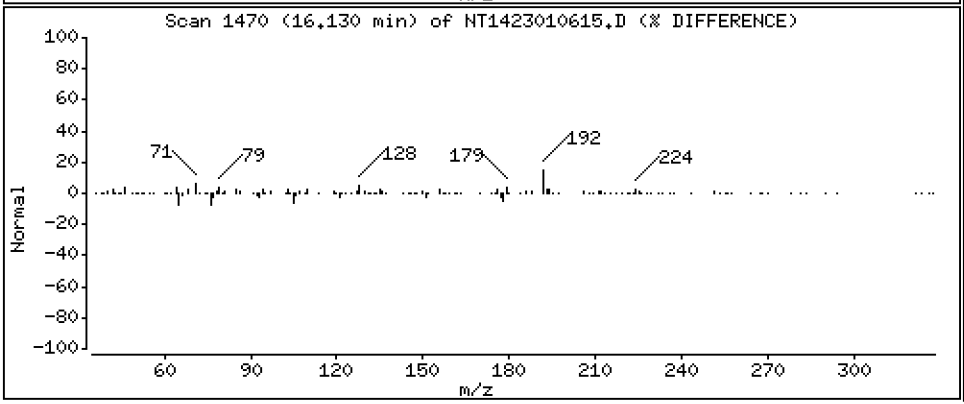
50 Diethylphthalate

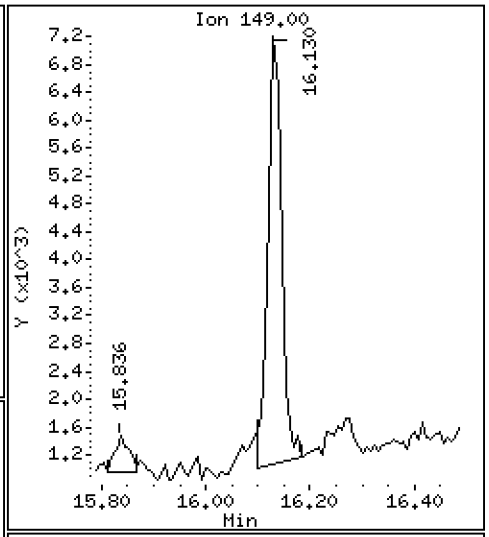
Concentration: 0.1135 ug/mL

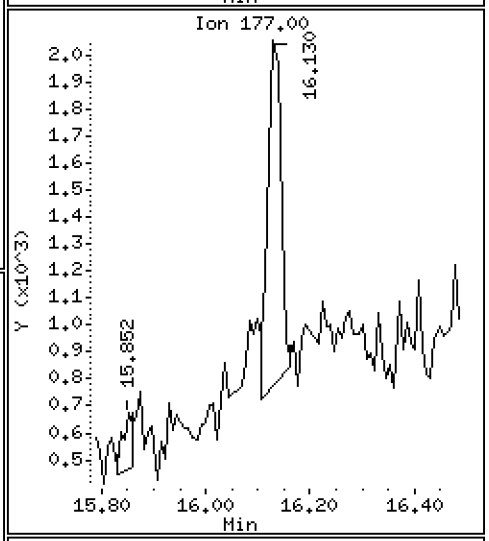


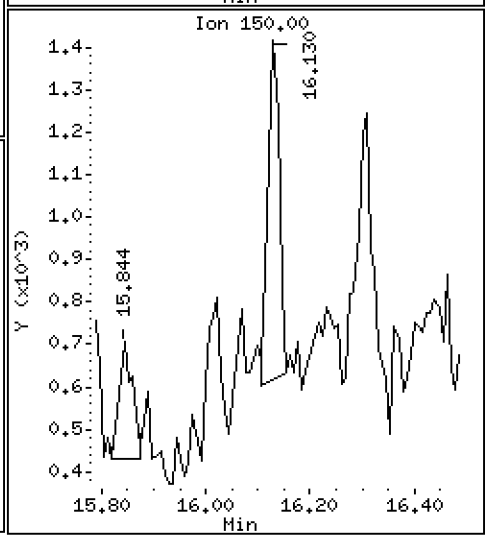












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

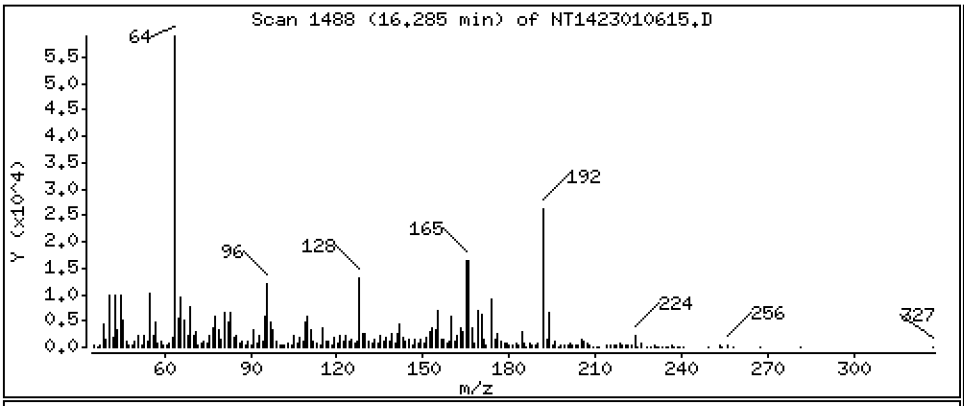
Operator: VTS

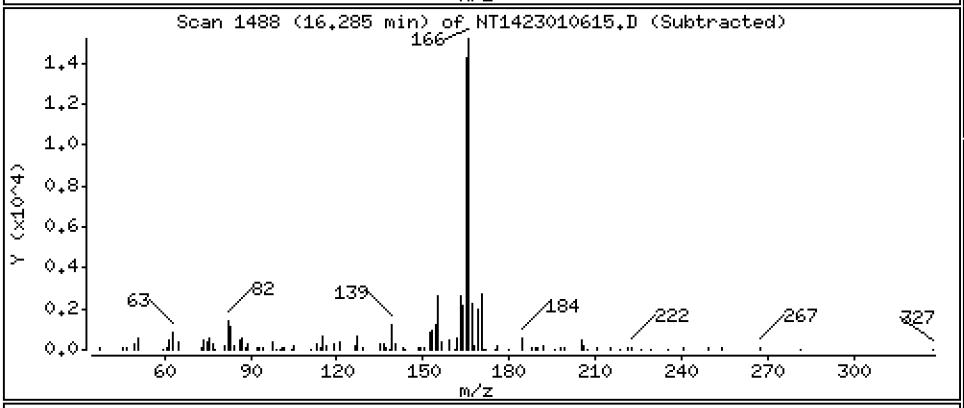
Column phase: ZB-5msi

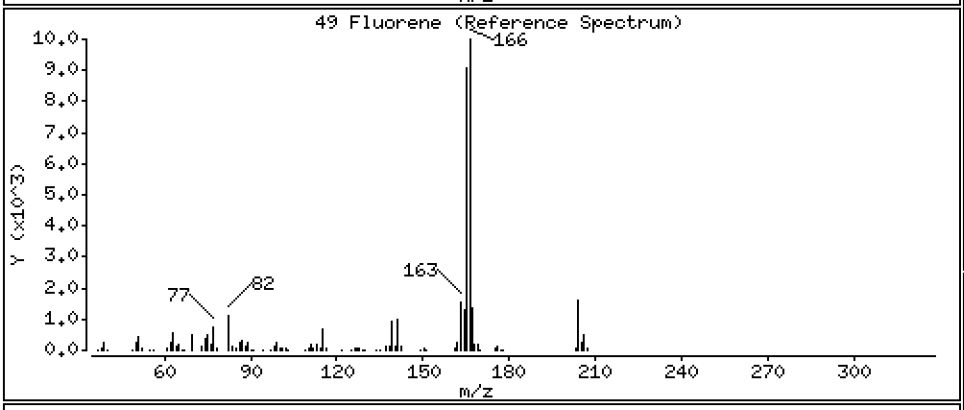
Column diameter: 0.25

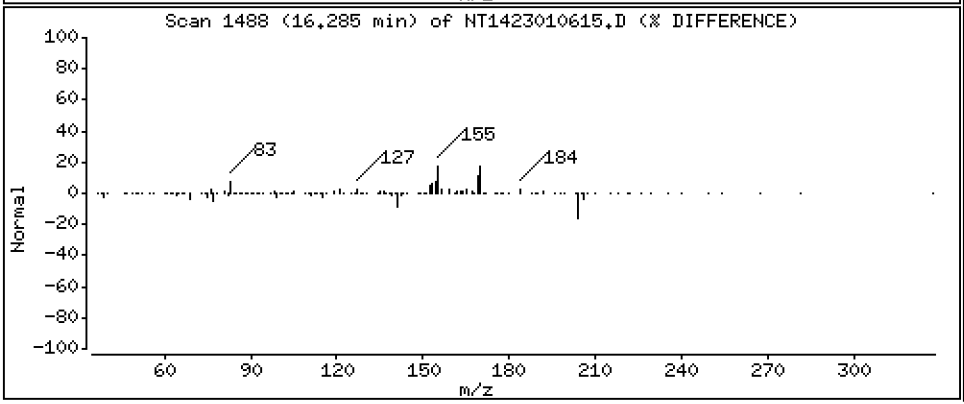
49 Fluorene

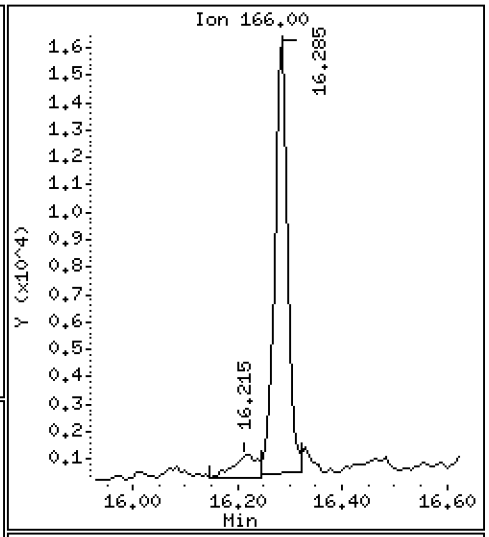
Concentration: 0.2565 ug/mL

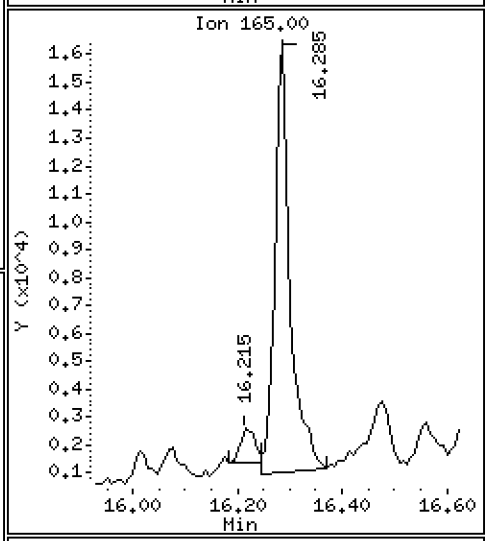


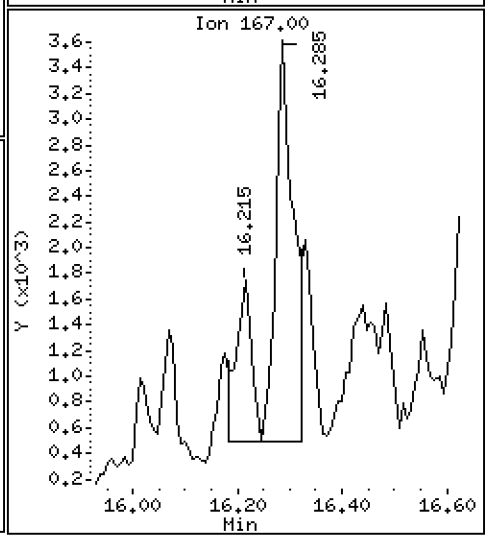












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

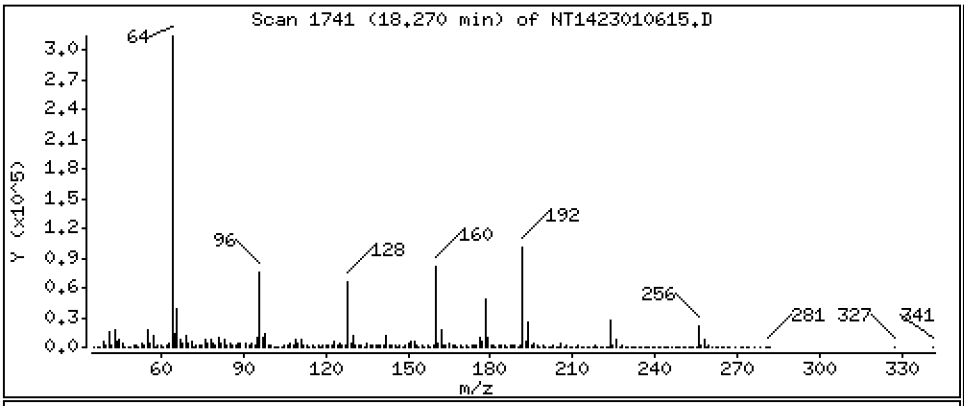
Operator: VTS

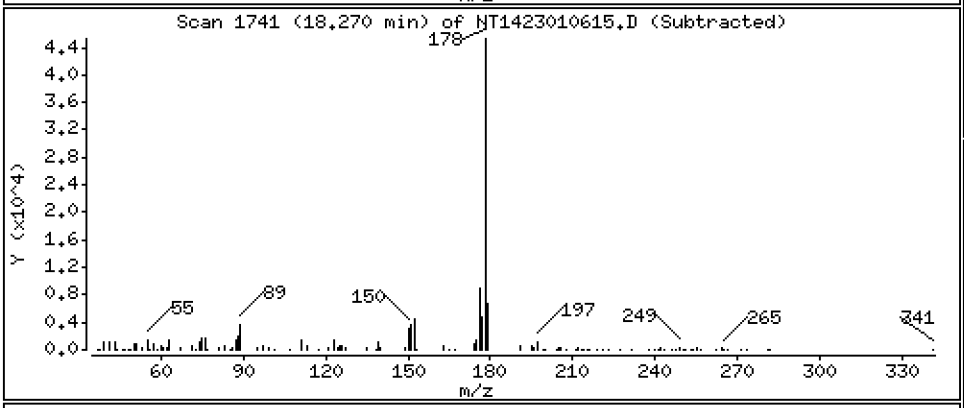
Column phase: ZB-5msi

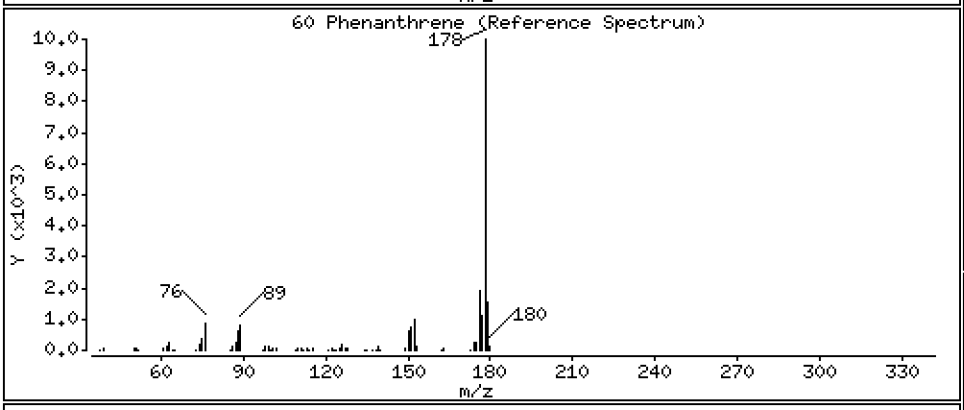
Column diameter: 0.25

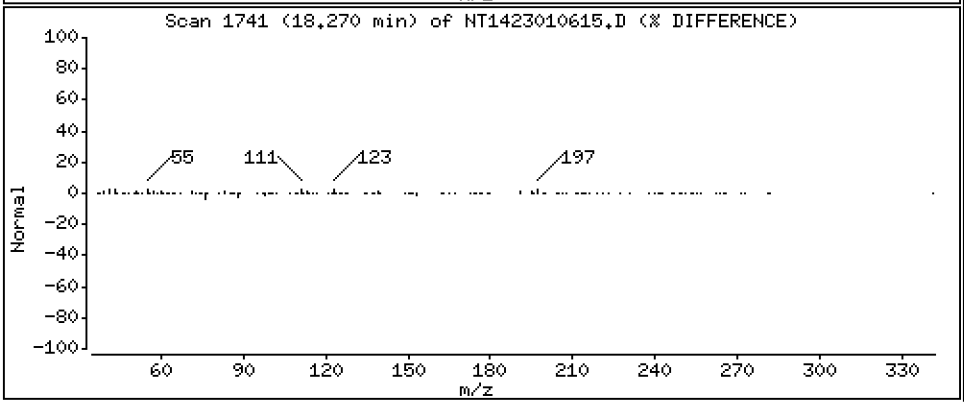
60 Phenanthrene

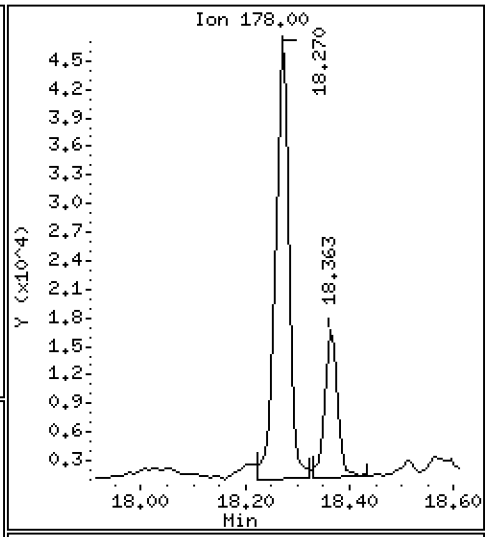
Concentration: 0.7382 ug/mL

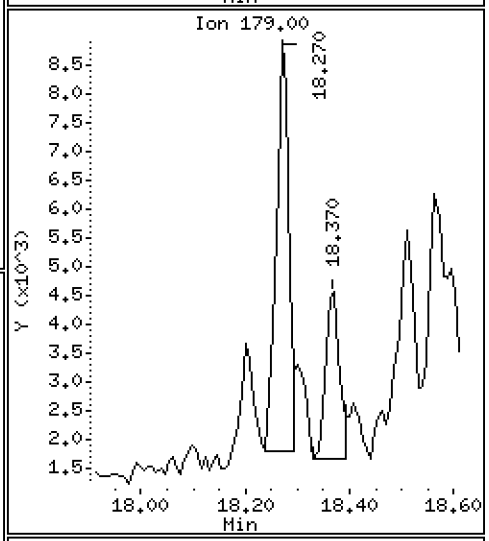


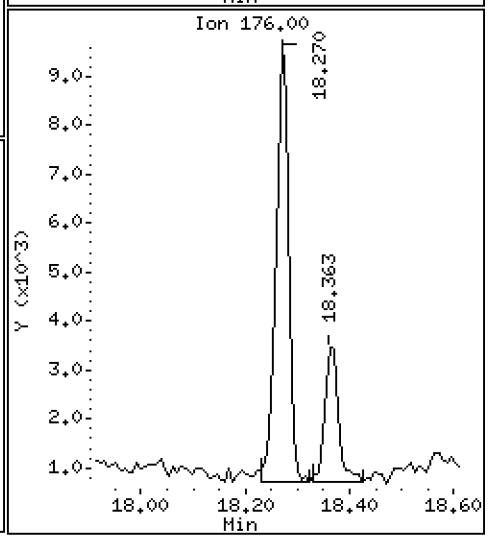












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D

Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

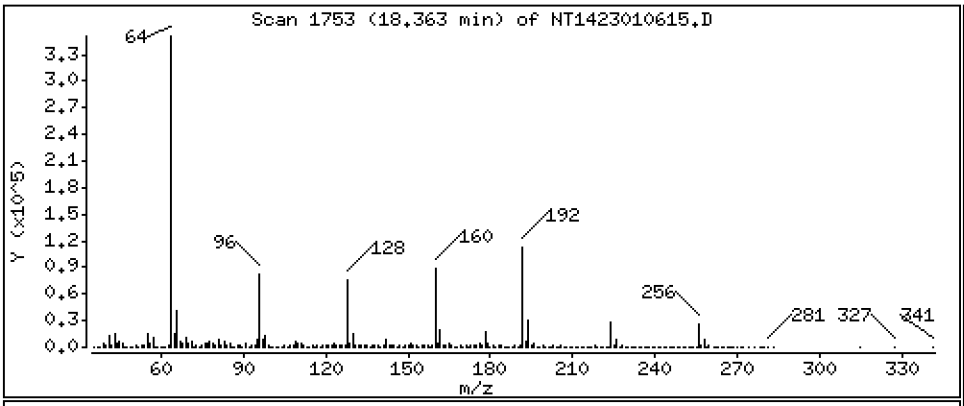
Operator: VTS

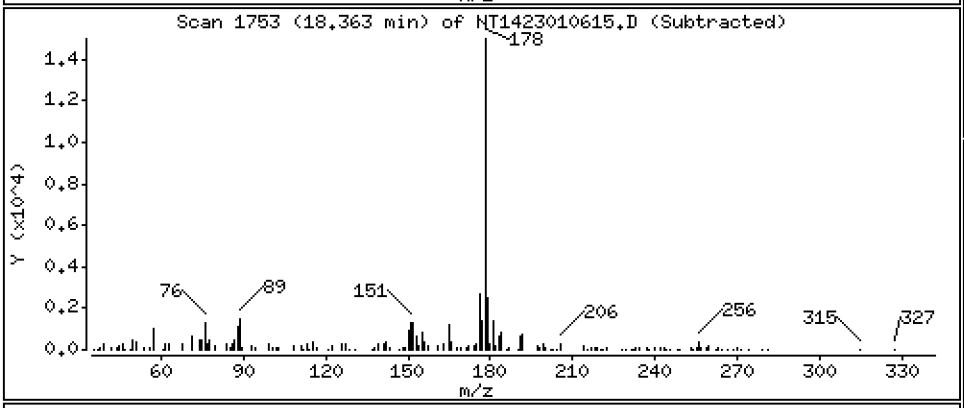
Column phase: ZB-5msi

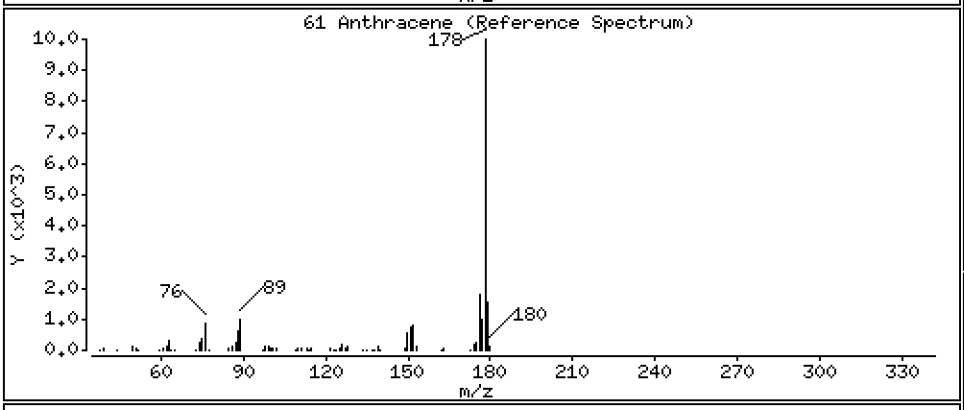
Column diameter: 0.25

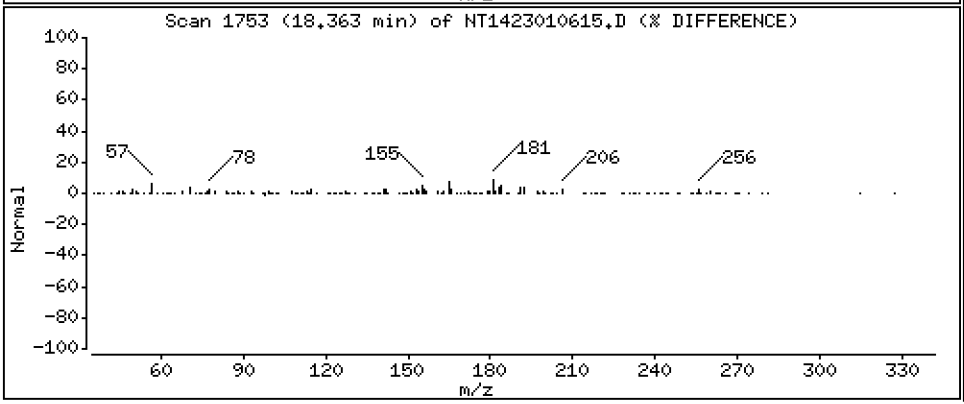
61 Anthracene

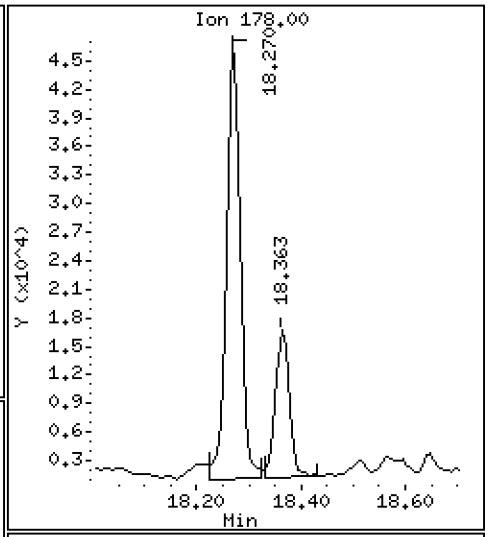
Concentration: 0.2594 ug/mL

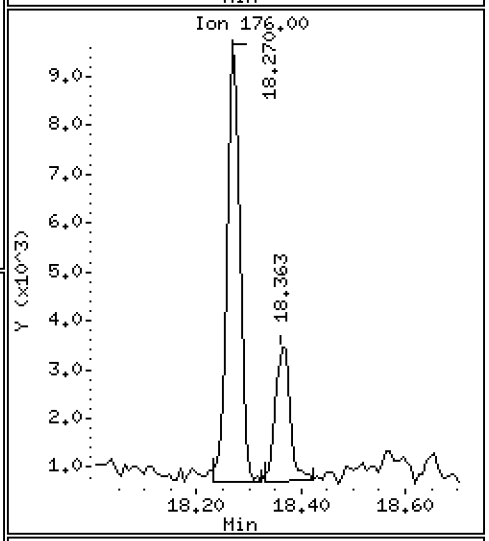


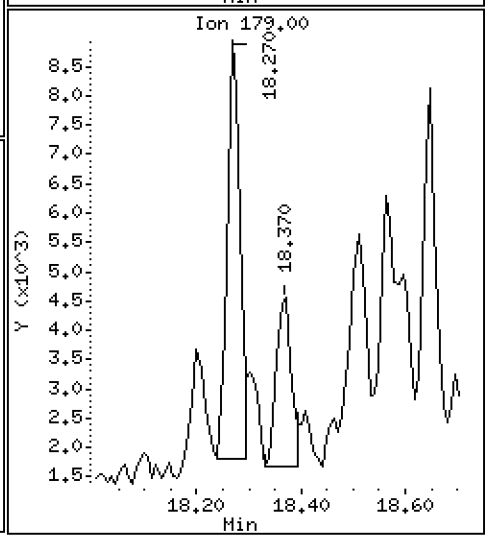












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

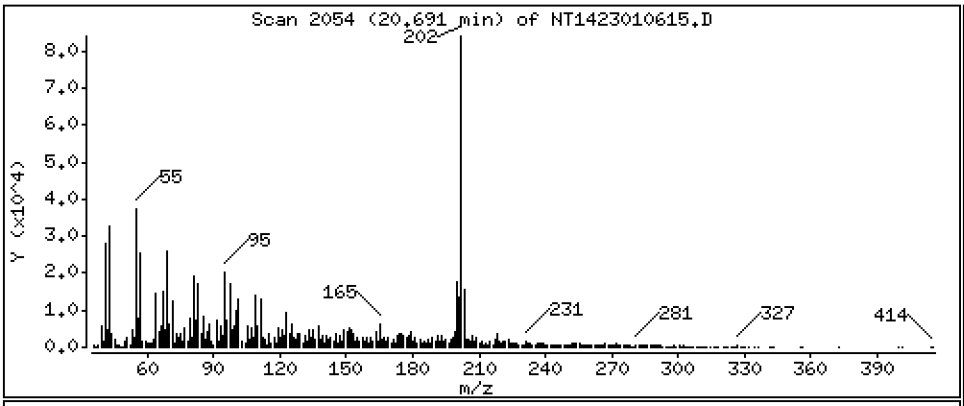
Operator: VTS

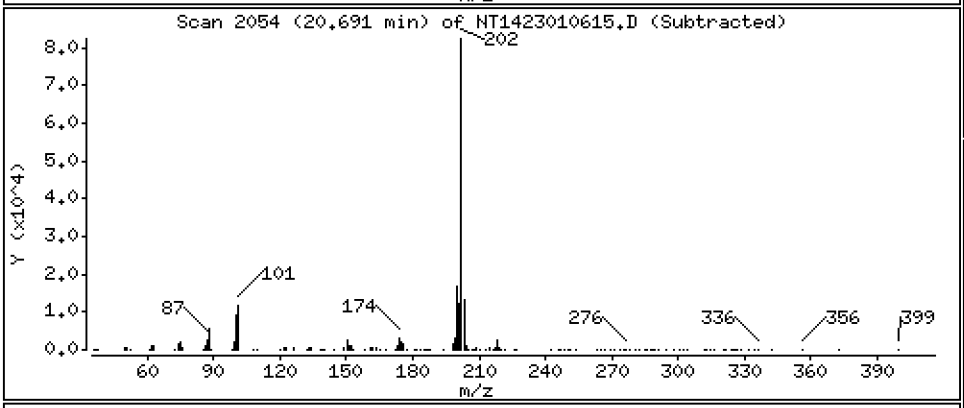
Column phase: ZB-5msi

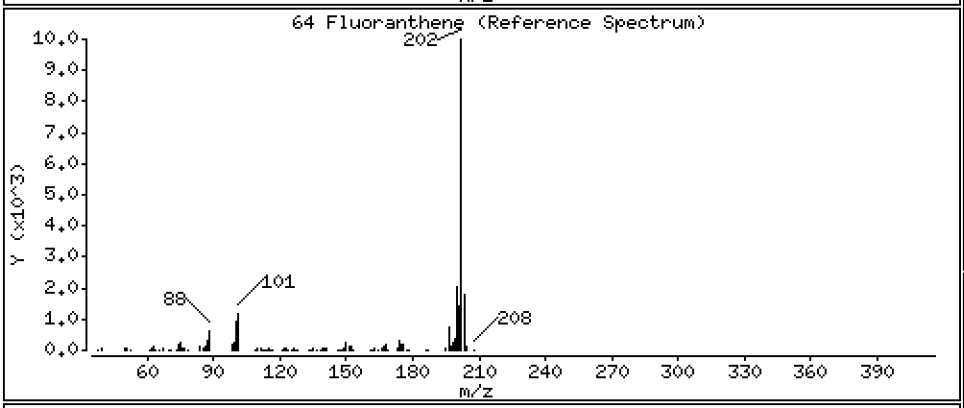
Column diameter: 0.25

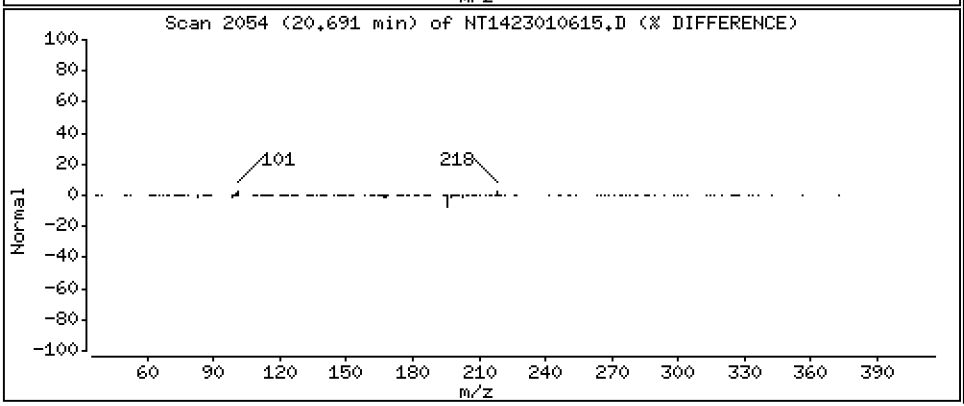
64 Fluoranthene

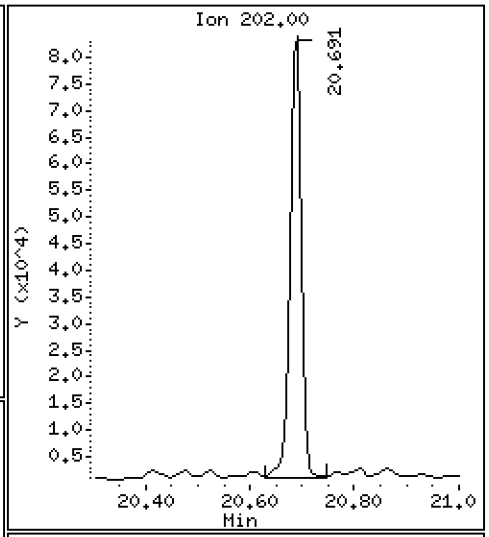
Concentration: 1.175 ug/mL

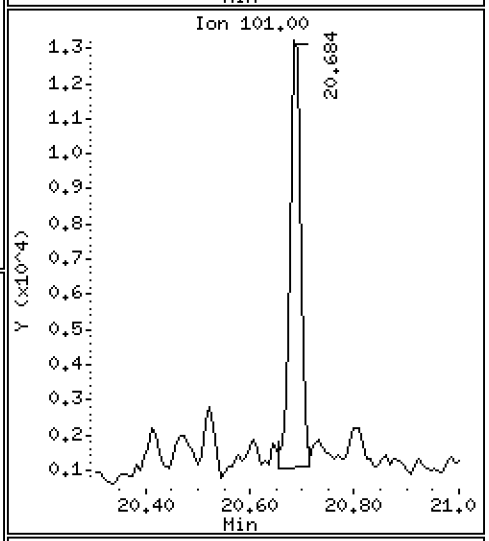


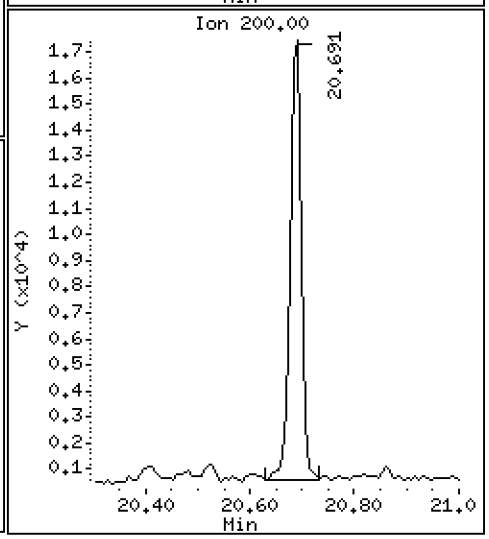












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

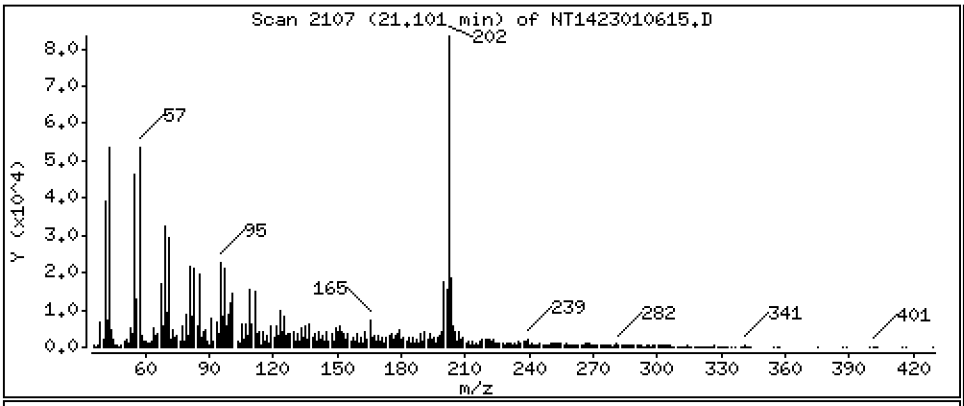
Operator: VTS

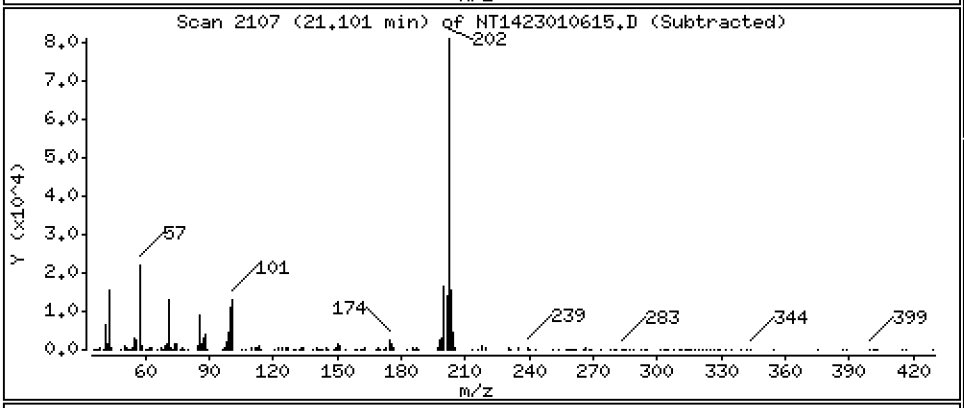
Column phase: ZB-5msi

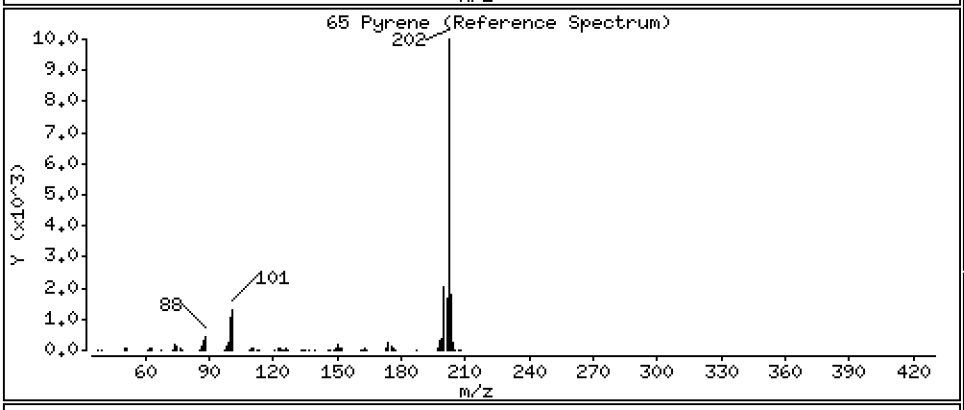
Column diameter: 0.25

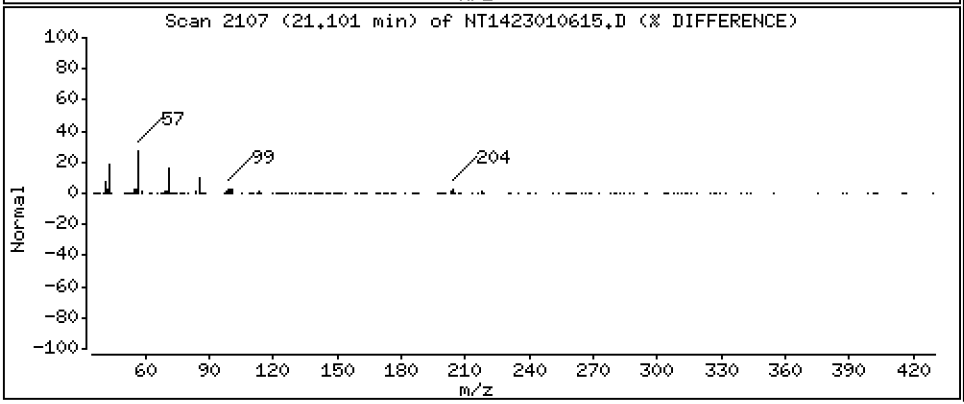
65 Pyrene

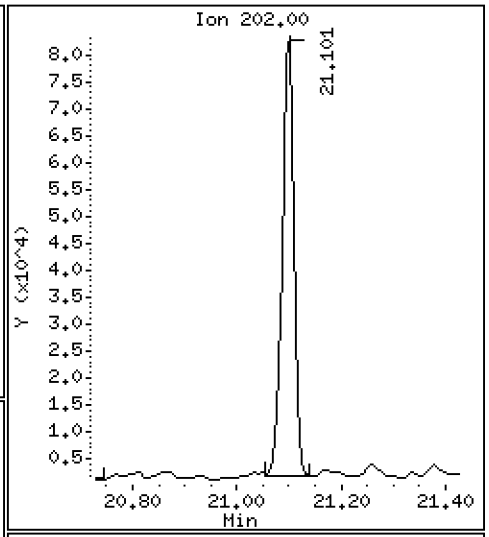
Concentration: 1.093 ug/mL

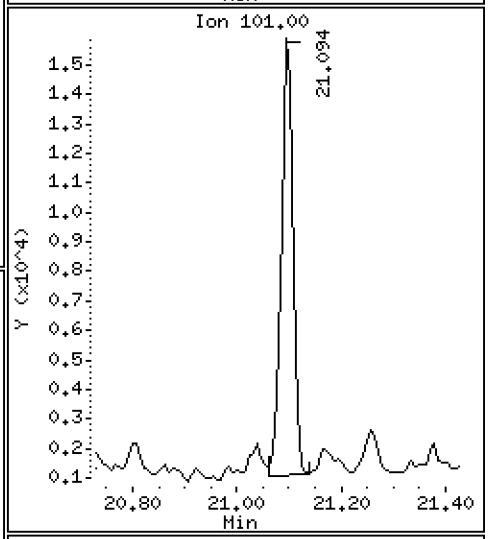


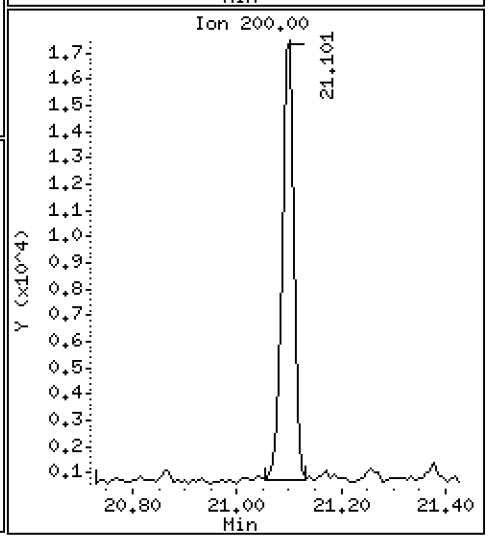












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D

Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

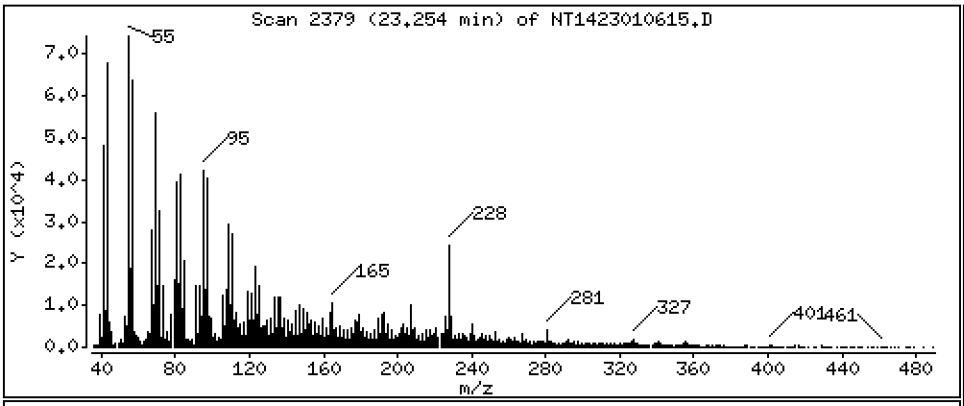
Operator: VTS

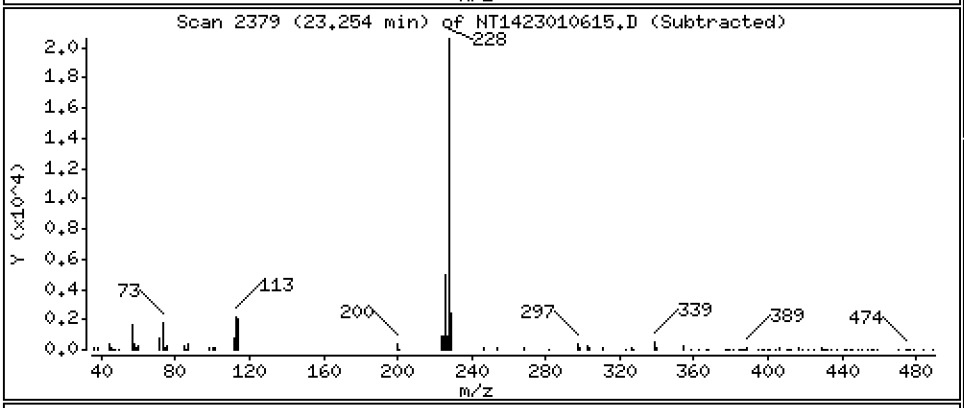
Column phase: ZB-5msi

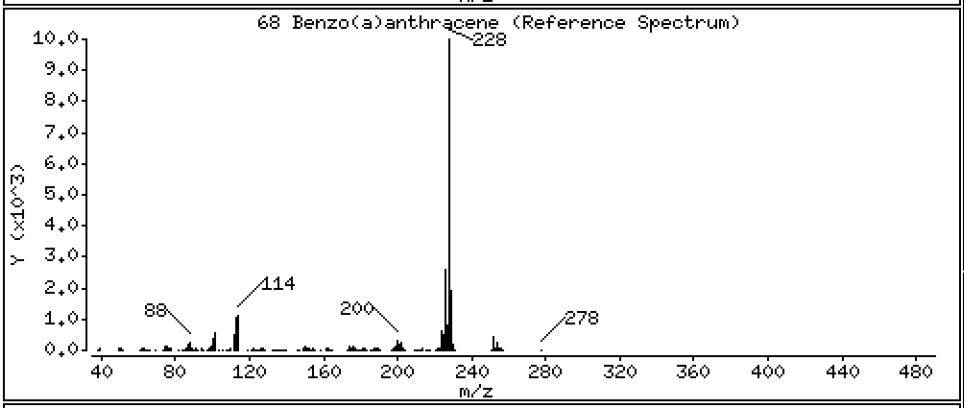
Column diameter: 0.25

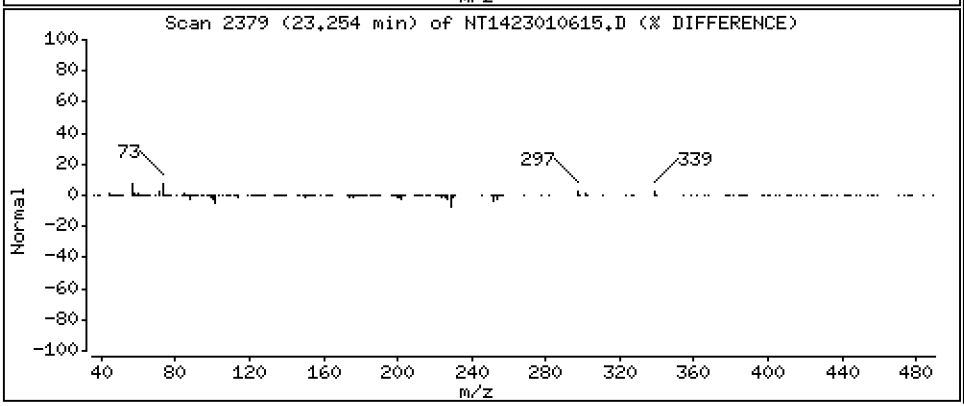
68 Benzo(a)anthracene

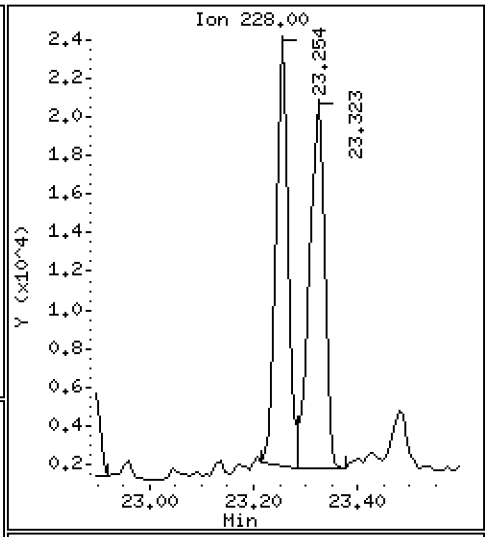
Concentration: 0.3379 ug/mL

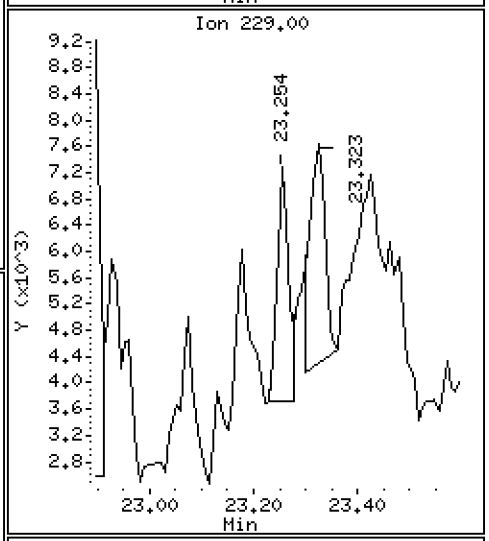


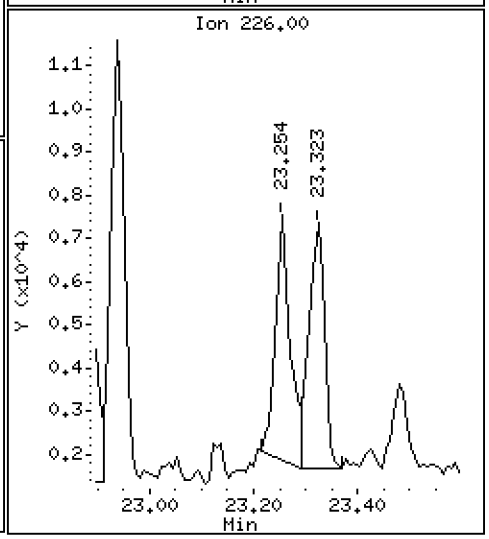












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

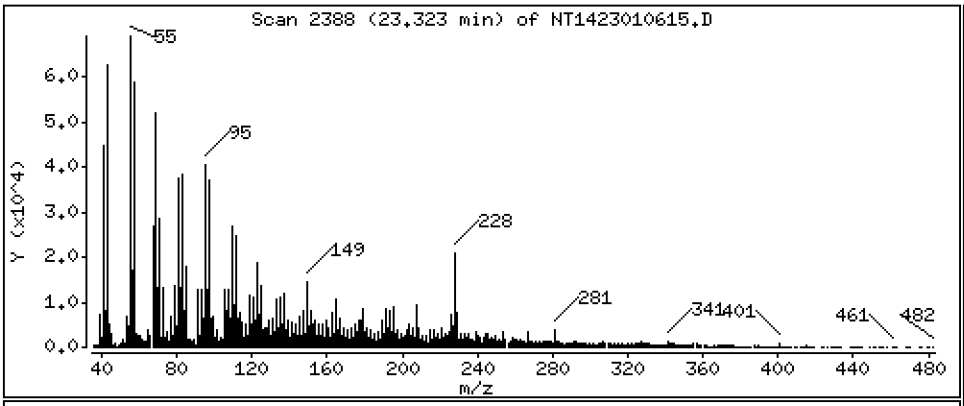
Operator: VTS

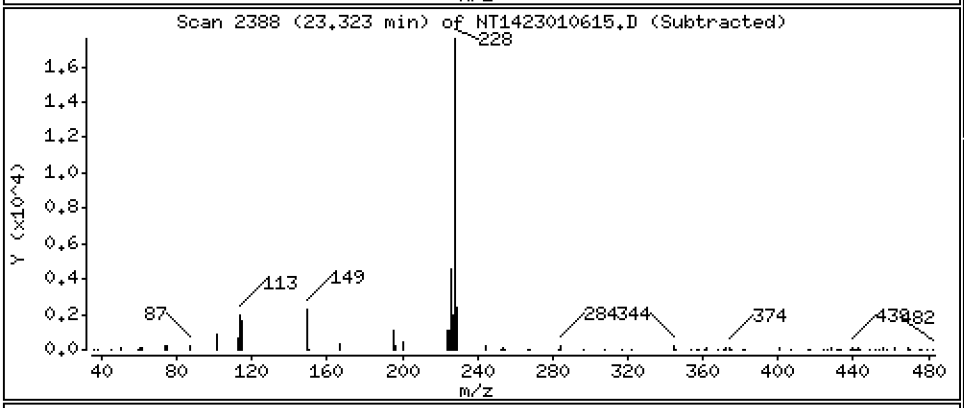
Column phase: ZB-5msi

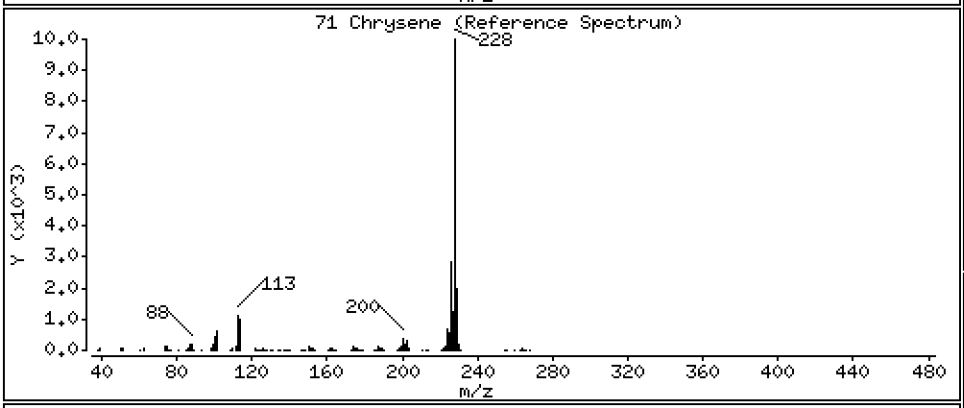
Column diameter: 0.25

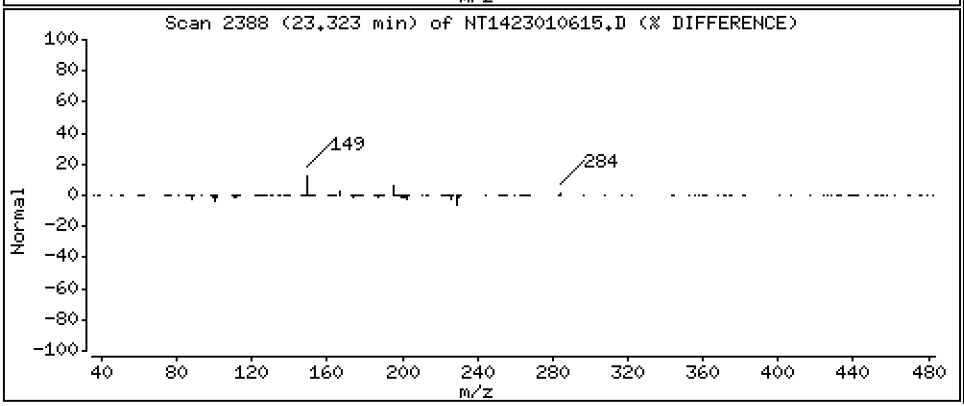
71 Chrysene

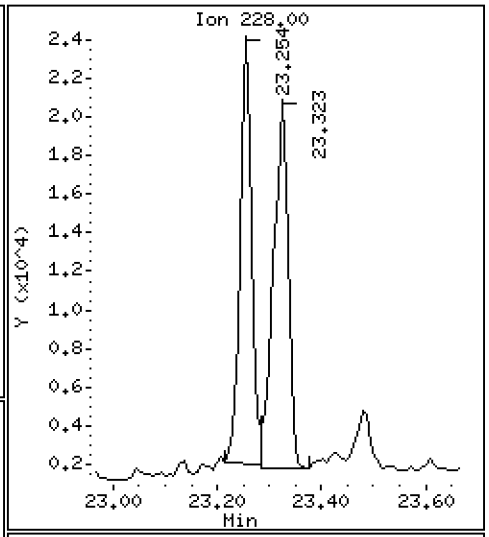
Concentration: 0.3785 ug/mL

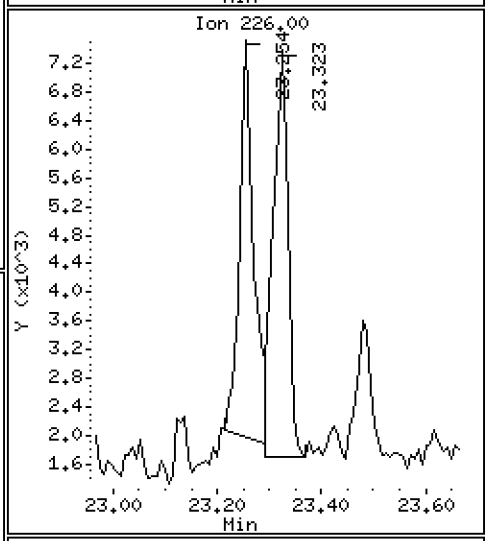


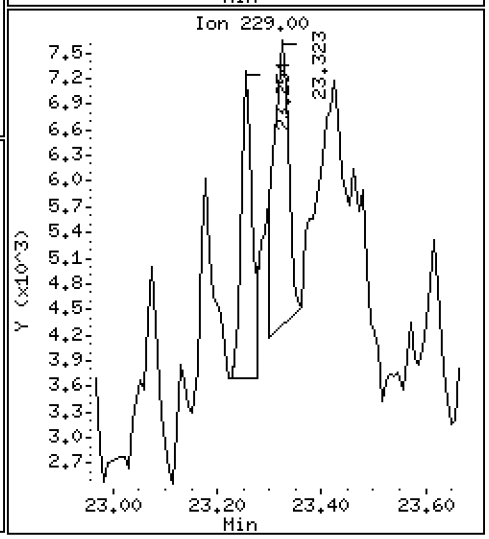












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

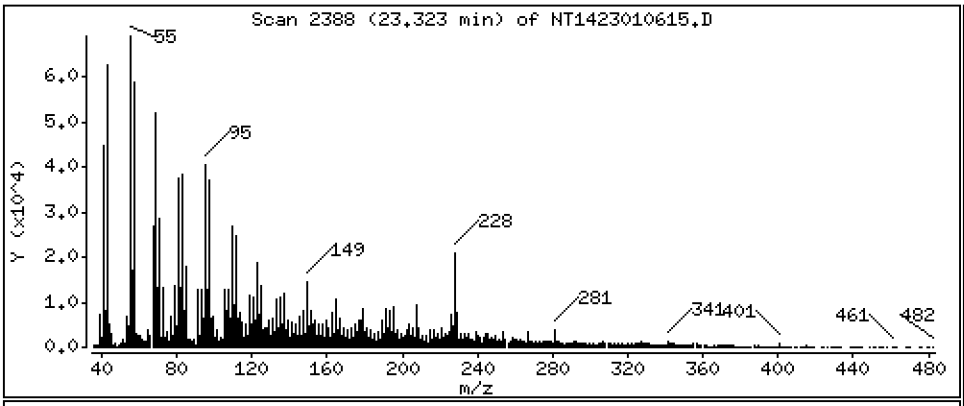
Operator: VTS

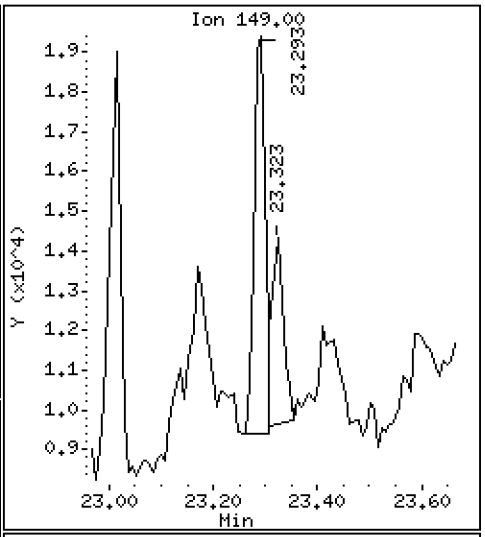
Column phase: ZB-5msi

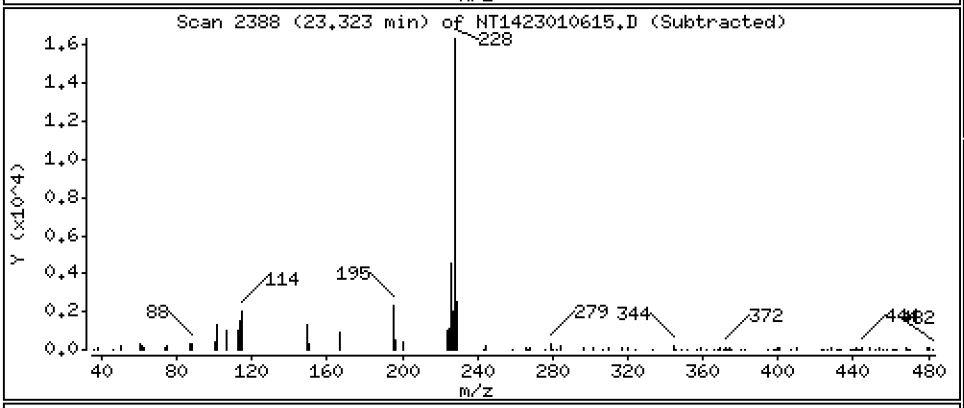
Column diameter: 0.25

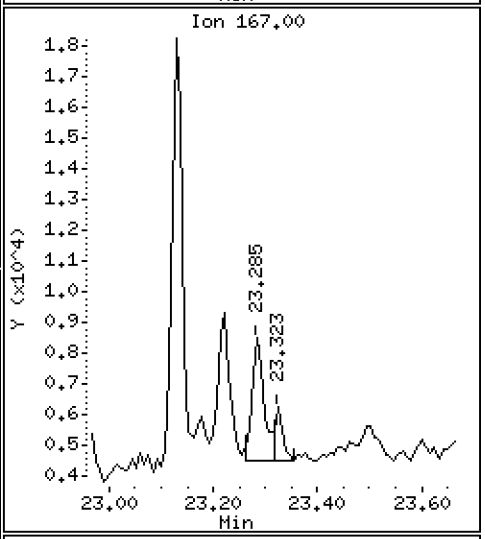
72 bis(2-Ethylhexyl)phthalate

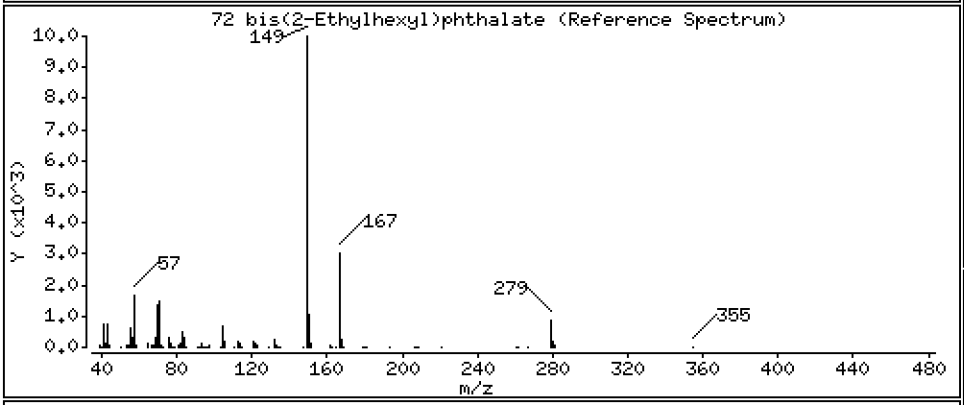
Concentration: 0.1055 ug/mL

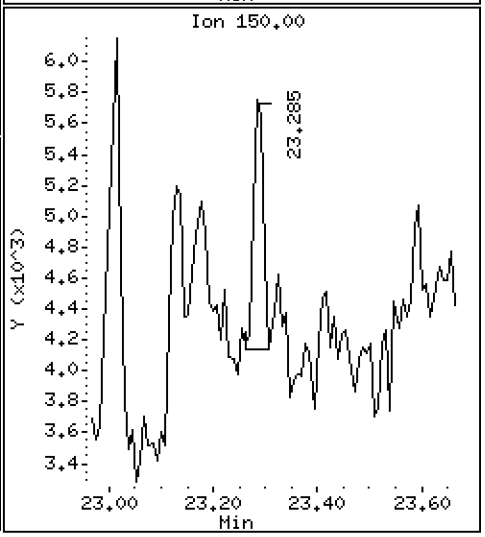


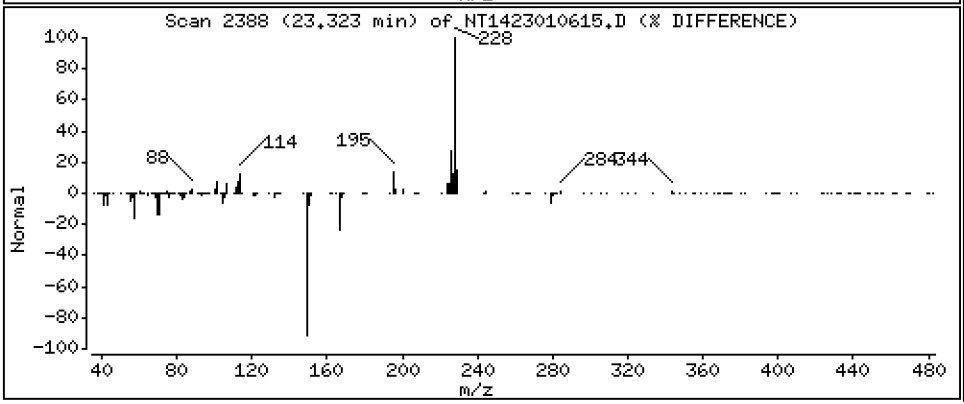












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

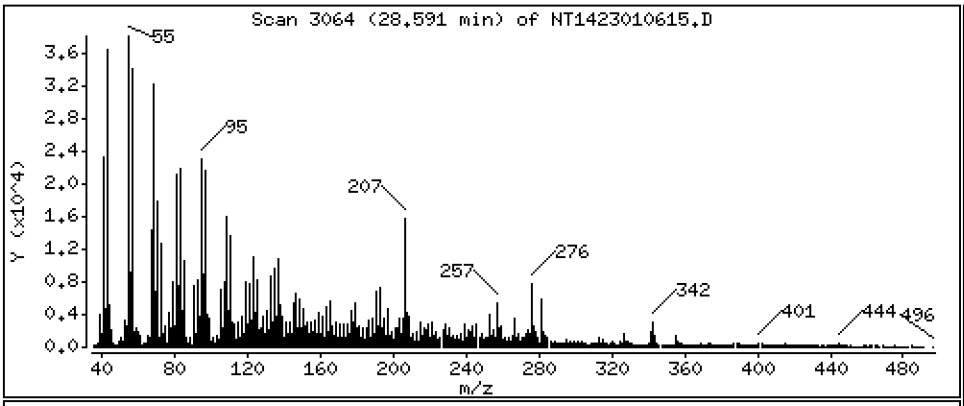
Operator: VTS

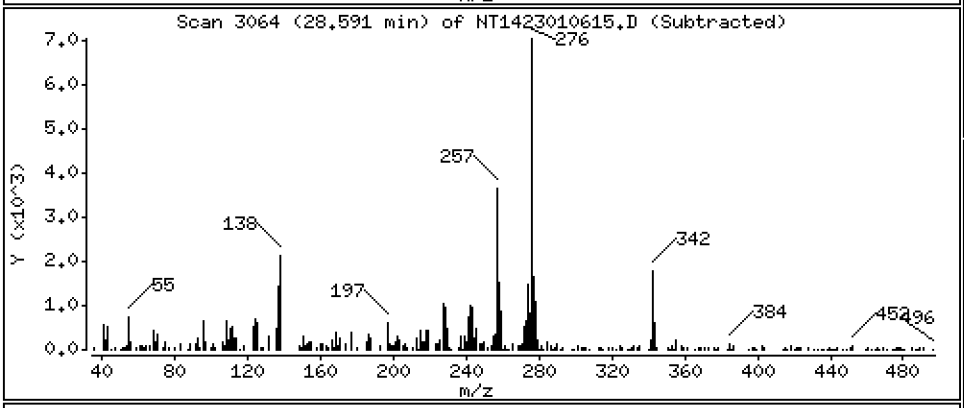
Column phase: ZB-5msi

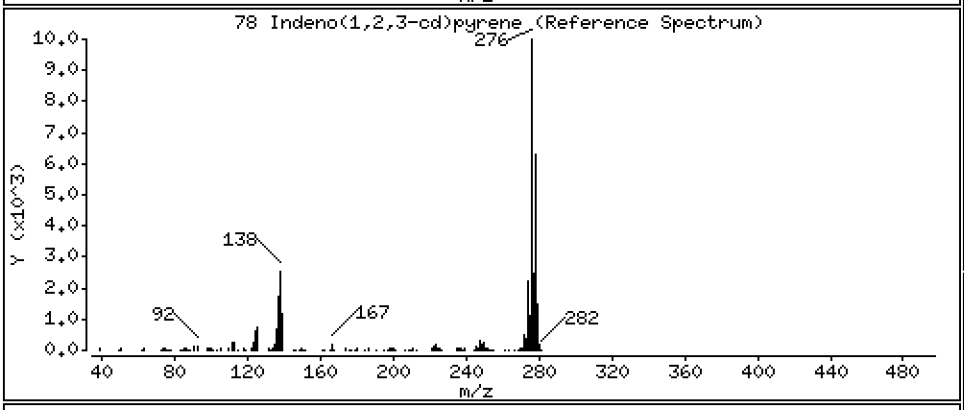
Column diameter: 0.25

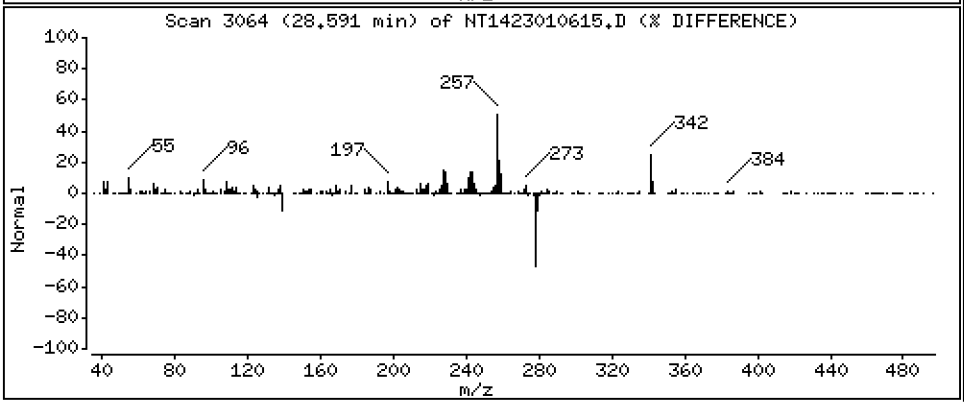
78 Indeno(1,2,3-cd)pyrene

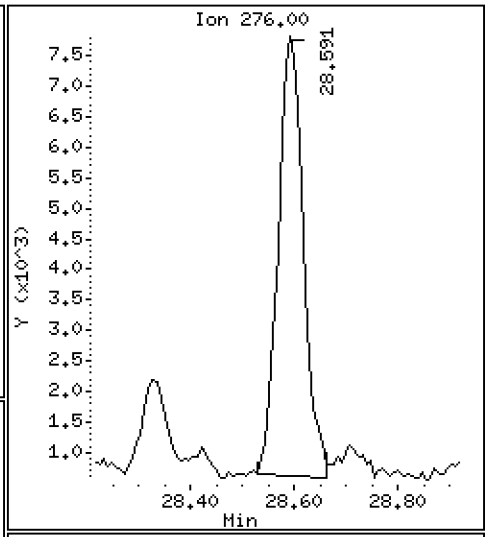
Concentration: 0.2099 ug/mL

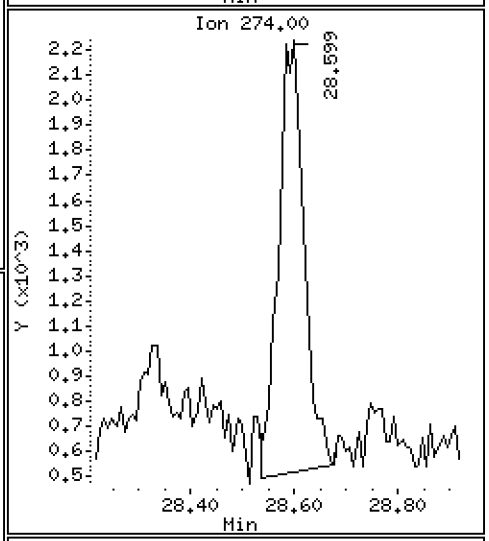


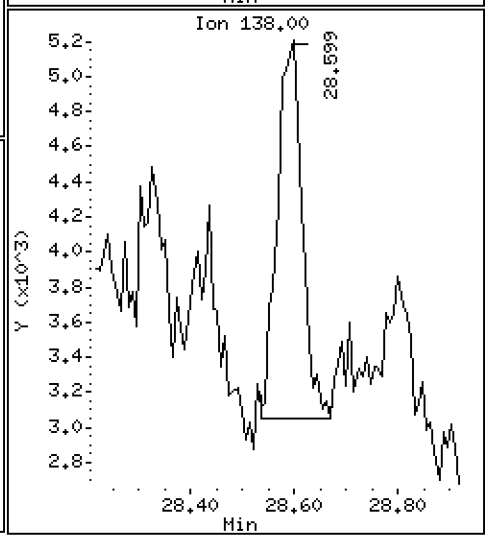












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D

Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

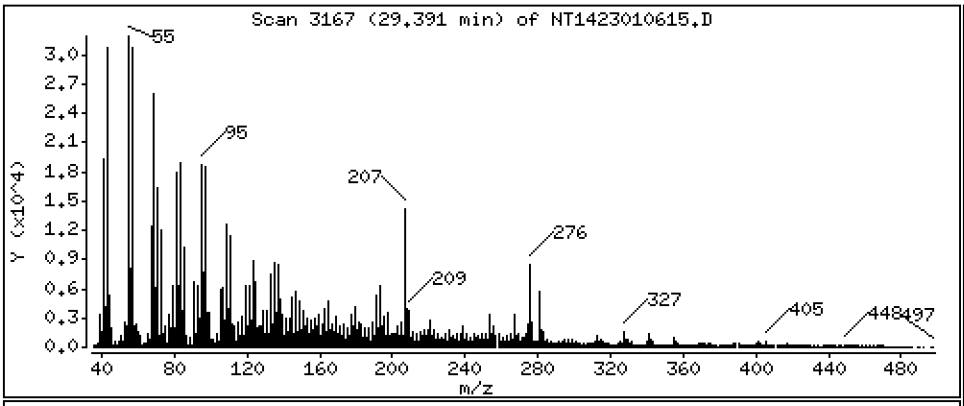
Operator: VTS

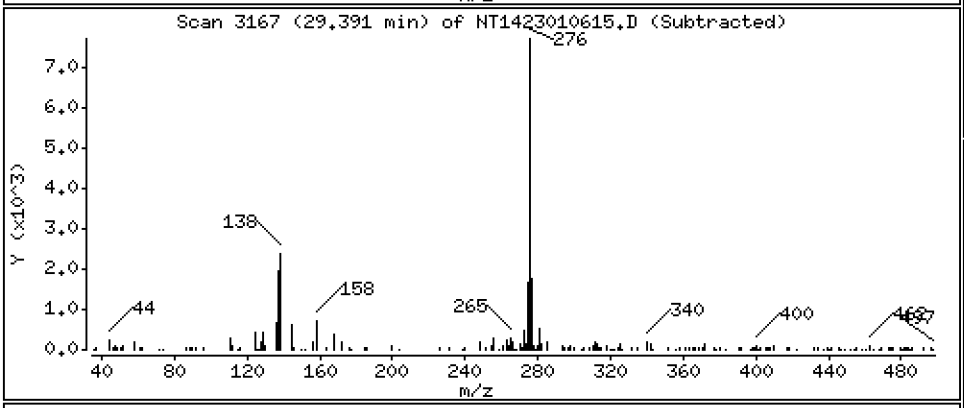
Column phase: ZB-5msi

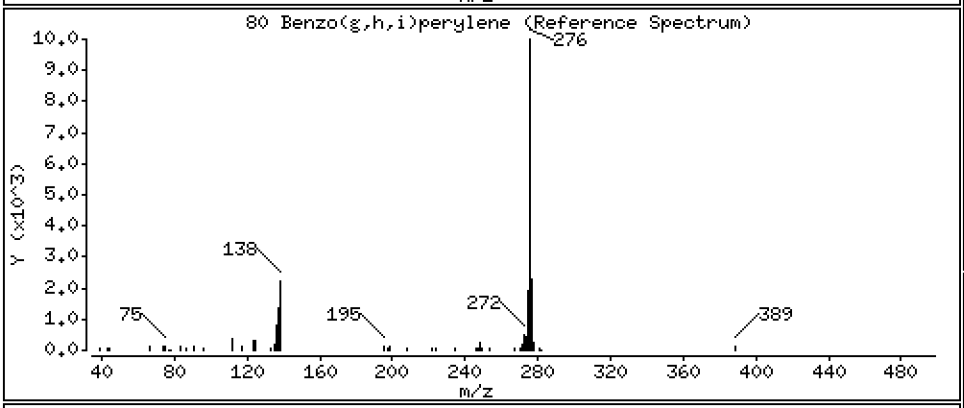
Column diameter: 0.25

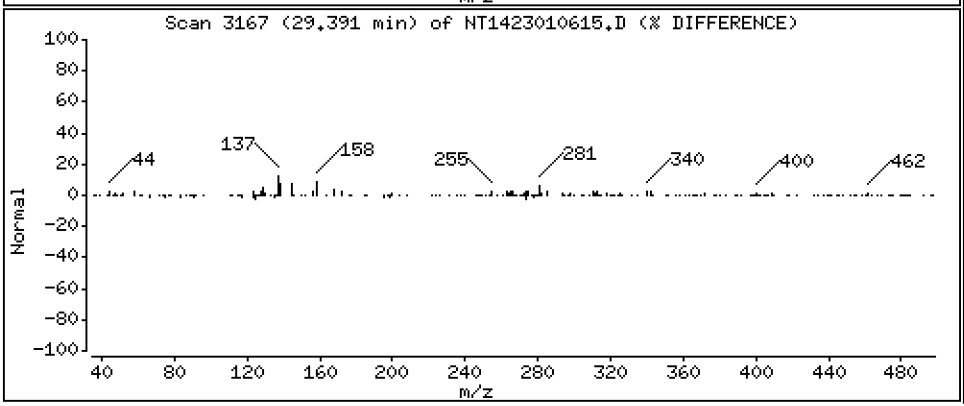
80 Benzo(g,h,i)perylene

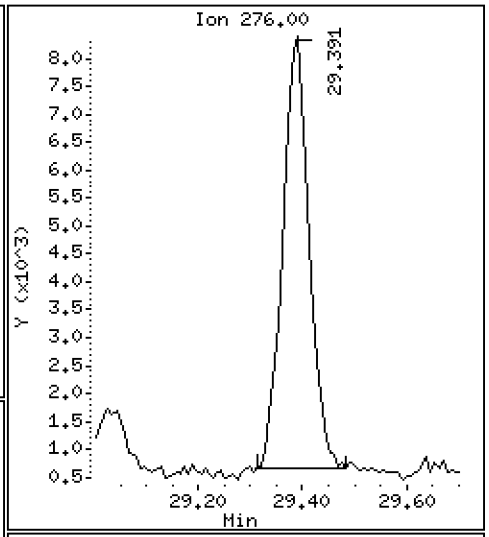
Concentration: 0.2841 ug/mL

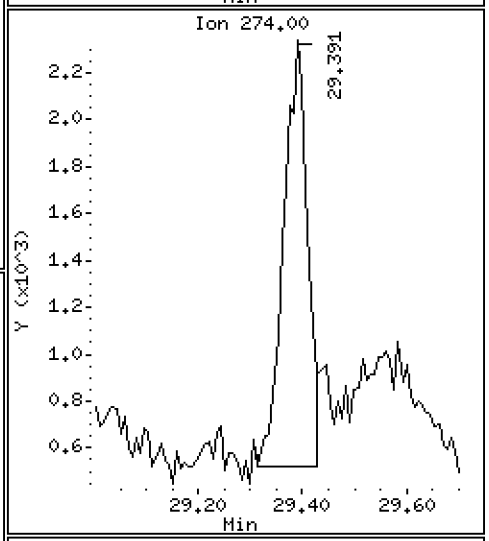


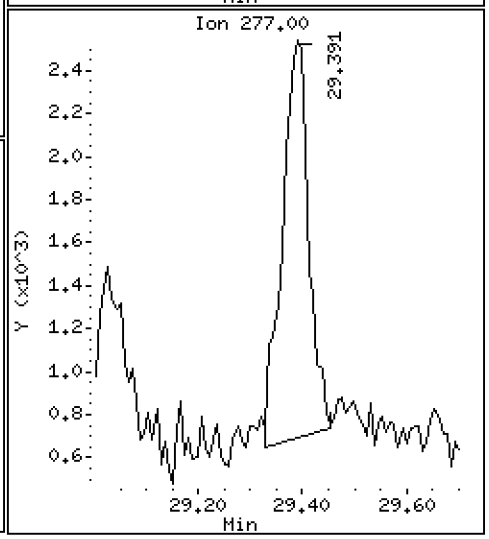












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D

Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

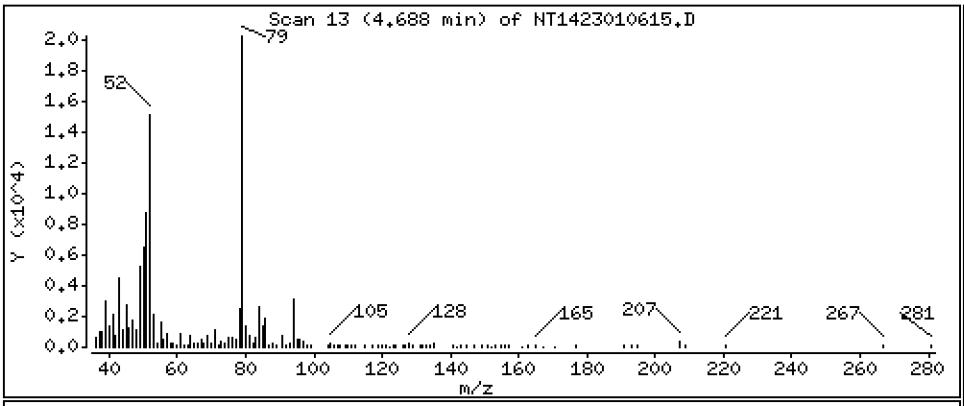
Operator: VTS

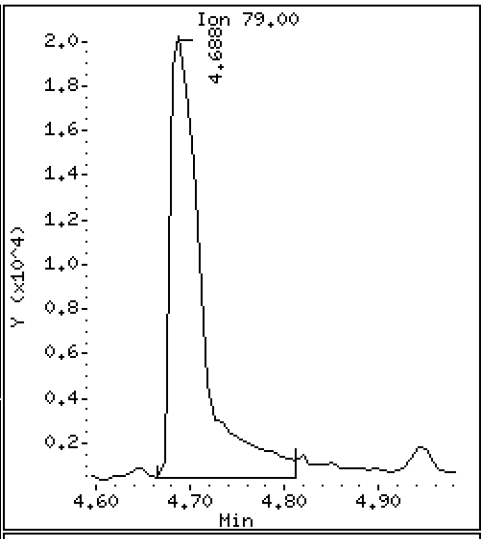
Column phase: ZB-5msi

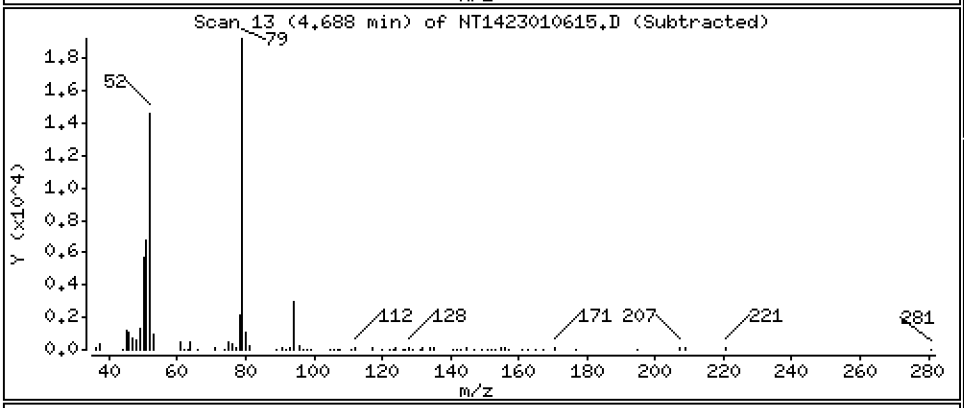
Column diameter: 0.25

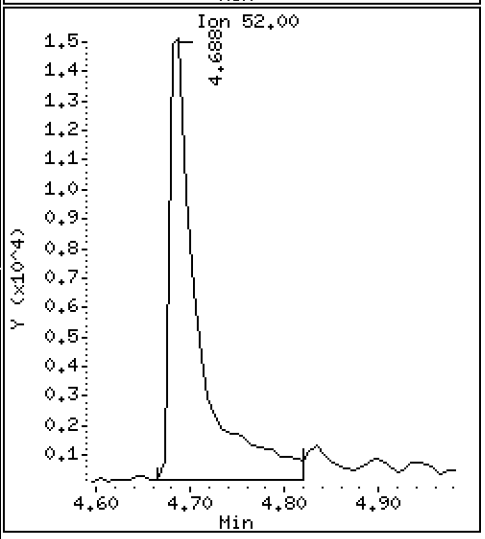
103 Pyridine

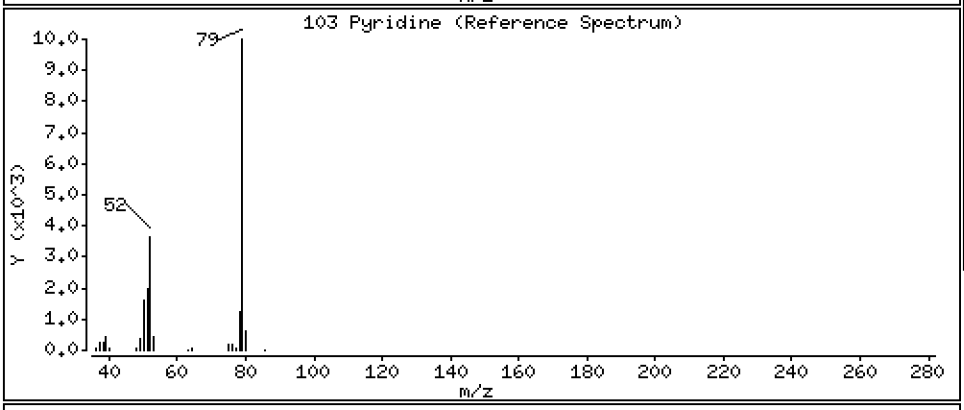
Concentration: 0.5197 ug/mL

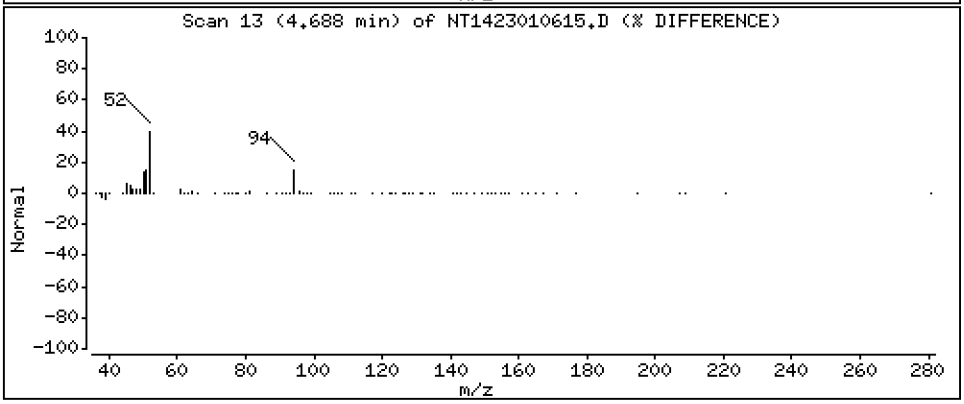












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Date : 06-JAN-2023 20:02

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-44

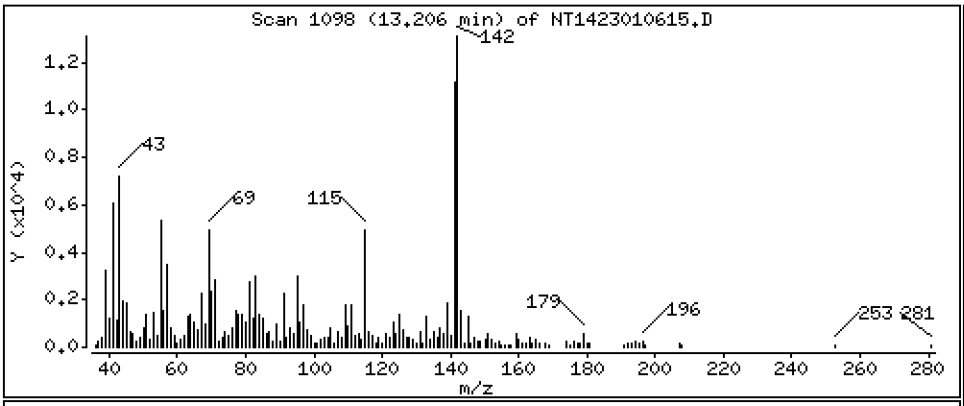
Operator: VTS

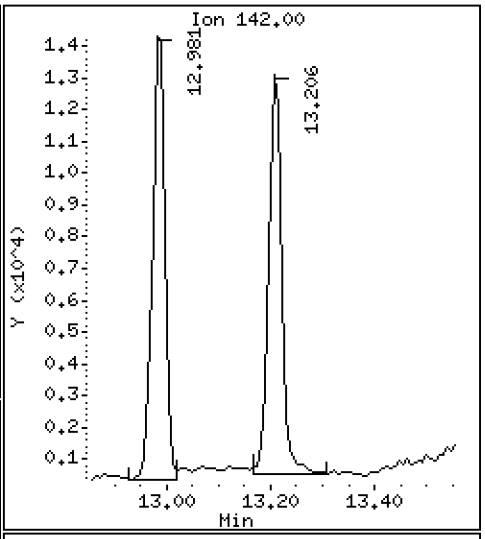
Column phase: ZB-5msi

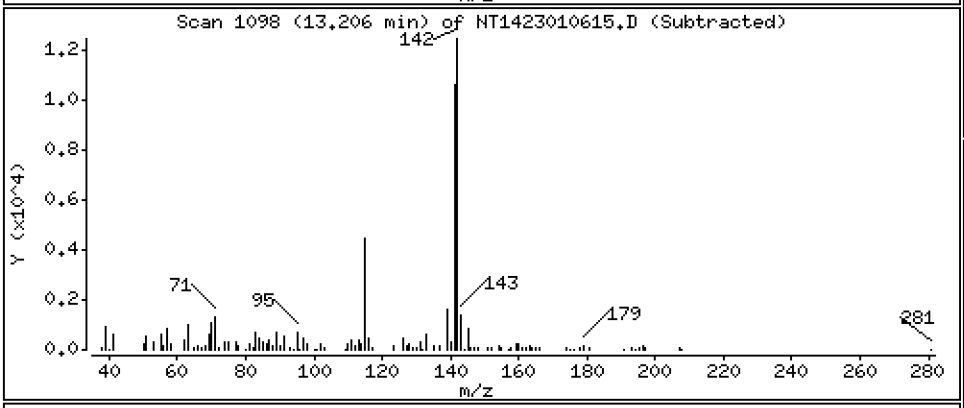
Column diameter: 0.25

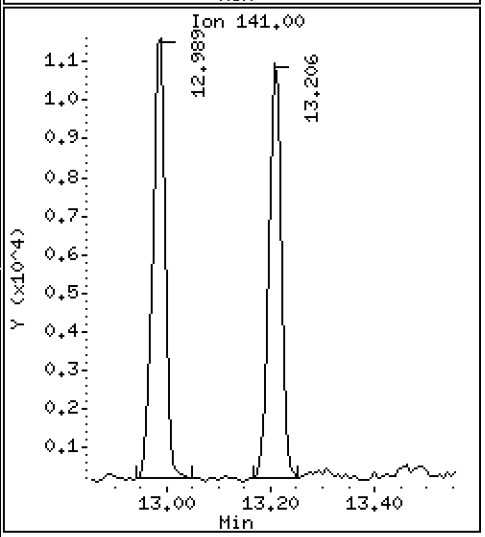
105 1-methylnaphthalene

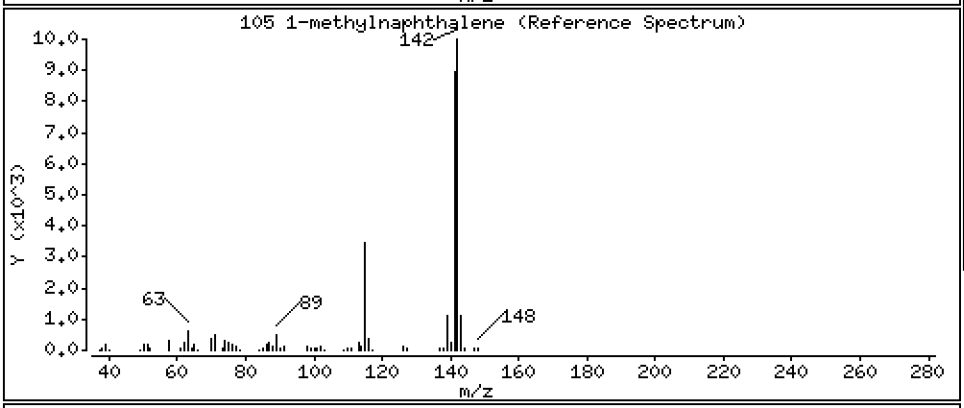
Concentration: 0.2447 ug/mL

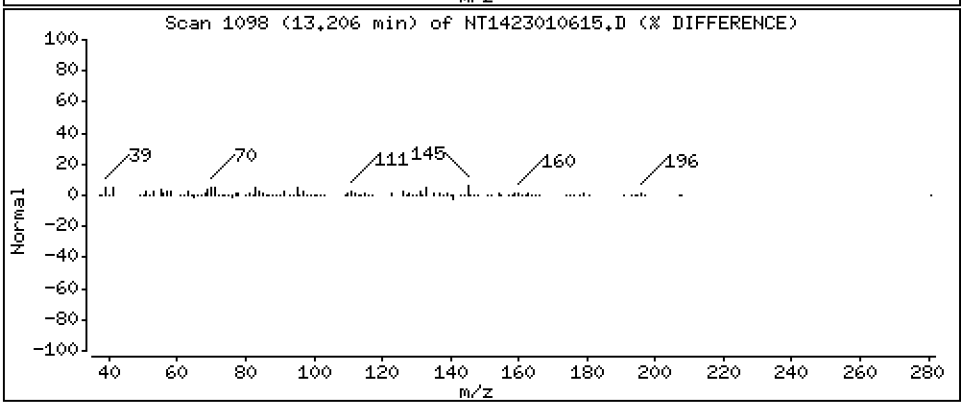












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010615.D
Lab Smp Id: 22L0246-44
Inj Date : 06-JAN-2023 20:02 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-44
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 15
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.827	6.811	(0.755)	215416	5.21578	5.216
$	2 Phenol-d5	99	8.411	8.403	(0.931)	279985	5.48557	5.486
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	248528	5.79781	5.798
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	128915	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	102519	3.49920	3.499
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	178281	4.31912	4.319
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	488811	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	32806	0.27271	0.2727
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	23390	0.26507	0.2651
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	354603	4.25344	4.253
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	247957	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.241	15.232	(1.005)	10255	0.15289	0.1529
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.565	15.565	(1.026)	18745	0.18636	0.1864
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.130	16.137	(1.063)	10792	0.11354	0.1135
	49	Fluorene	166	16.284	16.276	(1.073)	27450	0.25654	0.2565
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.824	16.816	(1.109)	82259	6.82706	6.827
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.223	18.215	(1.000)	427171	4.00000	
	60	Phenanthrene	178	18.269	18.261	(1.003)	82219	0.73821	0.7382
	61	Anthracene	178	18.362	18.354	(1.008)	27582	0.25941	0.2594
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	20.691	20.652	(0.889)	130498	1.17455	1.175
	65	Pyrene	202	21.101	21.077	(0.906)	127704	1.09320	1.093
$	66	Terphenyl-d14	244	21.372	21.364	(0.918)	390867	4.71888	4.719
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	23.253	23.245	(0.999)	35325	0.33794	0.3379
*	69	Chrysene-d12	240	23.284	23.268	(1.000)	345061	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.323	23.315	(1.002)	37375	0.37853	0.3785
	72	bis(2-Ethylhexyl)phthalate	149	23.323	23.315	(0.960)	7688	0.10551	0.1055
*	134	Di-n-octylphthalate-d4	153	24.306	24.298	(1.000)	656078	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.924	25.901	(1.000)	395249	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.590	28.567	(1.103)	24643	0.20994	0.2099
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	29.390	29.351	(1.134)	27935	0.28408	0.2841
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.688	4.633	(0.519)	46968	0.51965	0.5197
	105	1-methylnaphthalene	142	13.205	13.205	(1.144)	20750	0.24474	0.2447
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010615.D
Lab Smp Id: 22L0246-44
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	128915	-3.88
27 Naphthalene-d8	499117	249559	998234	488811	-2.06
42 Acenaphthene-d10	260320	130160	520640	247957	-4.75
59 Phenanthrene-d10	432406	216203	864812	427171	-1.21
69 Chrysene-d12	317887	158944	635774	345061	8.55
134 Di-n-octylphthala	664061	332031	1328122	656078	-1.20
77 Perylene-d12	313716	156858	627432	395249	25.99

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.07
134 Di-n-octylphthala	24.30	23.80	24.80	24.31	0.03
77 Perylene-d12	25.90	25.40	26.40	25.92	0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010615.D

Lab ID: 22L0246-44
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 20:02

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.519	0.513	0.0060	Pyridine

RRT check based on Ccal File: NT1423010602.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809D

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

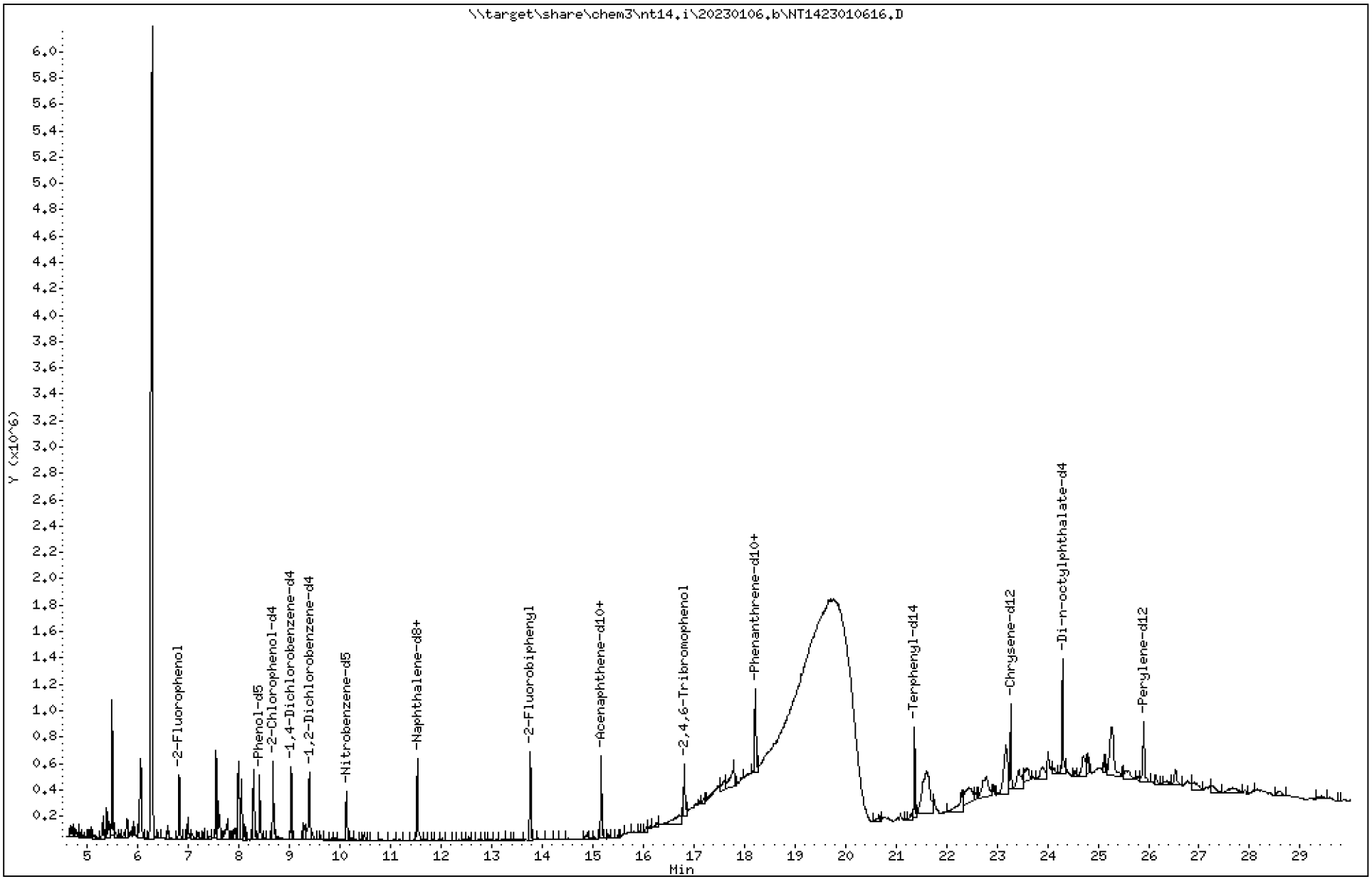
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-45 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010616.D
% Solids:	79.67	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/06/23 20:38
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	12.56 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	499.67	460	92.1	37 - 120	Q

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010616.D
Date : 06-JAN-2023 20:38
Client ID:
Sample Info: 22L0246-45

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010616.D

Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

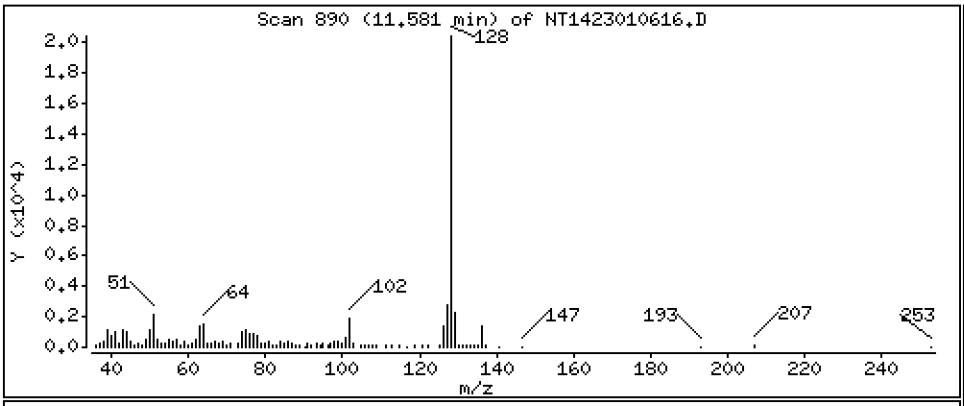
Operator: VTS

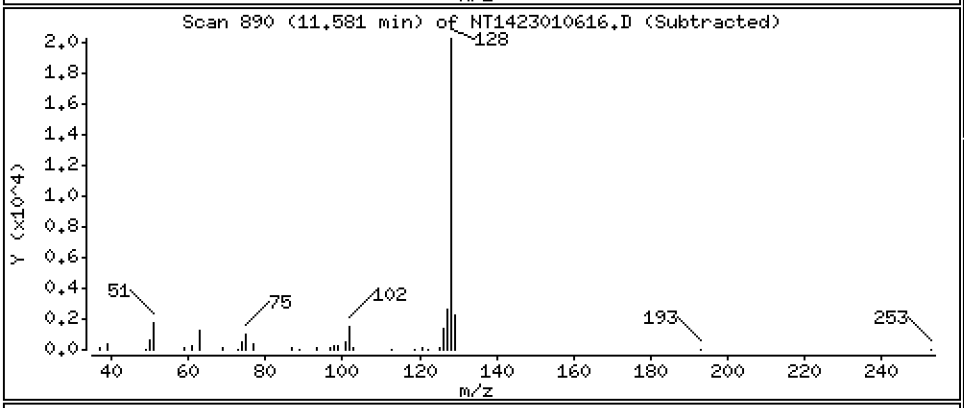
Column phase: ZB-5msi

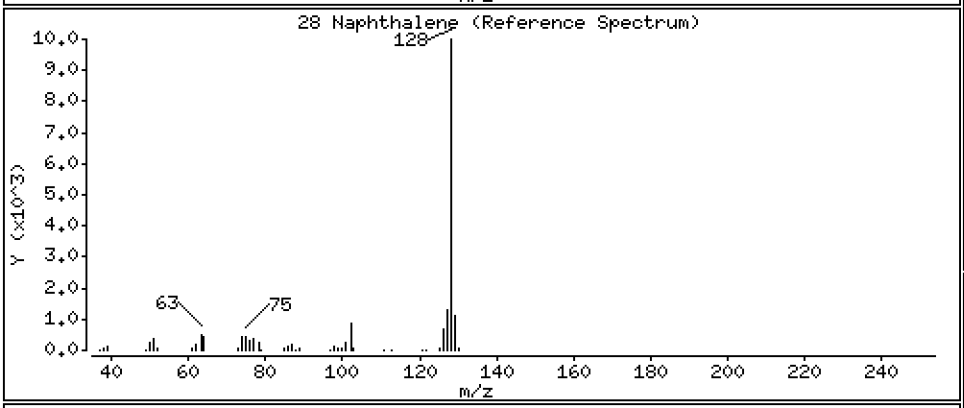
Column diameter: 0.25

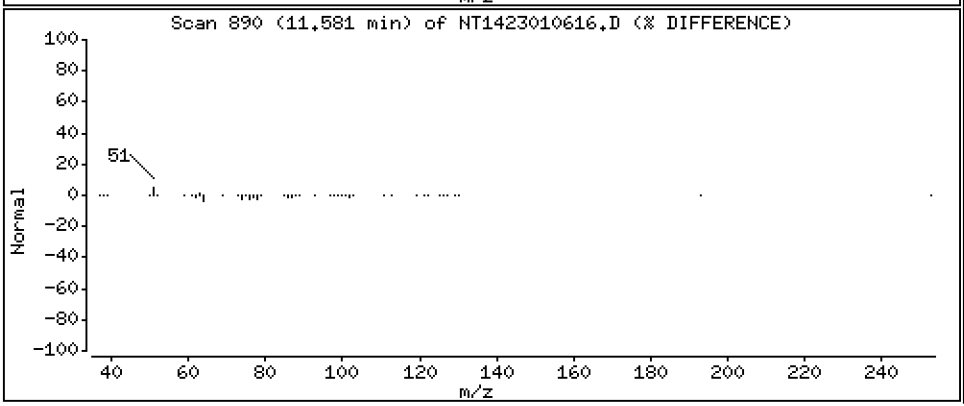
28 Naphthalene

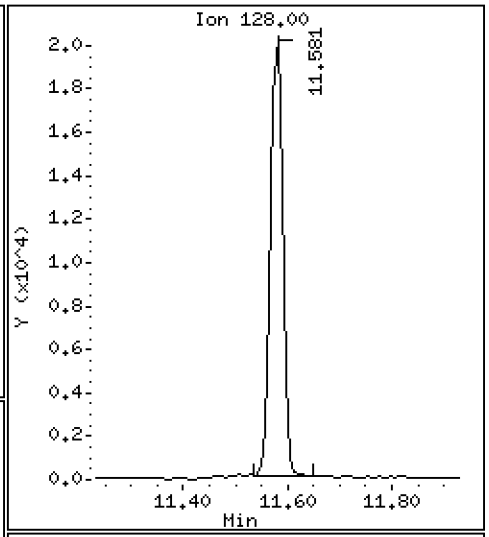
Concentration: 0.2691 ug/mL

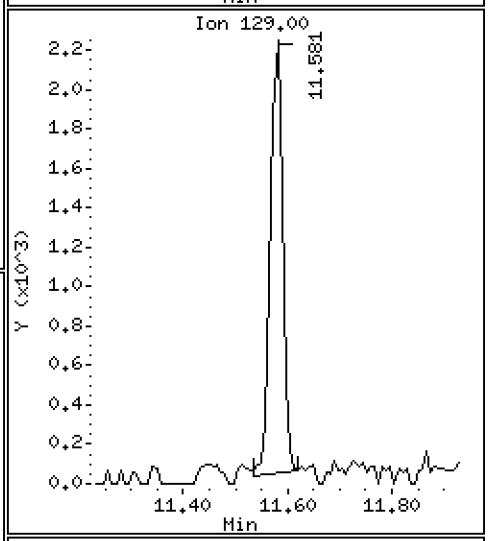


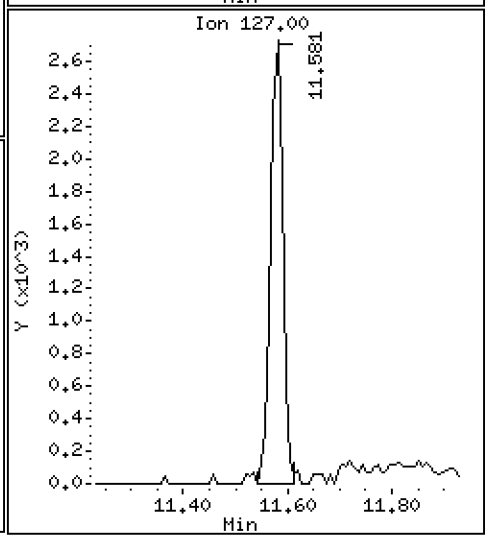












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

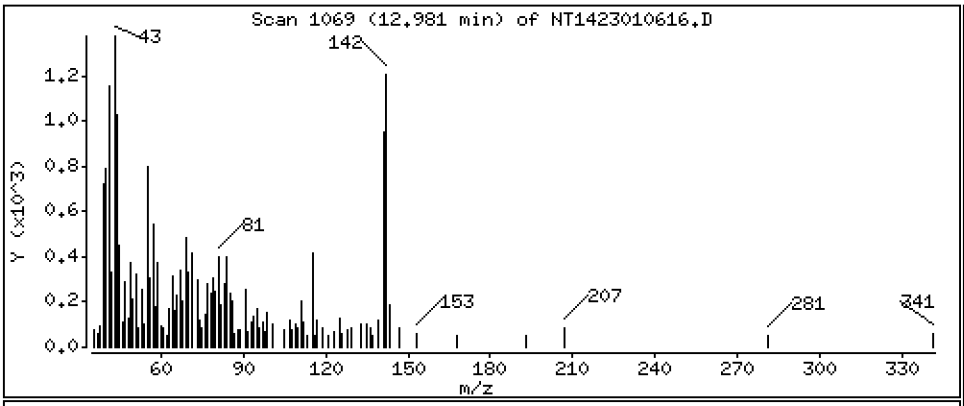
Operator: VTS

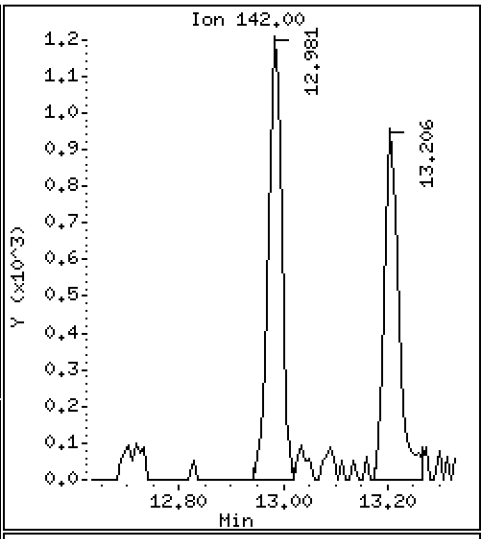
Column phase: ZB-5msi

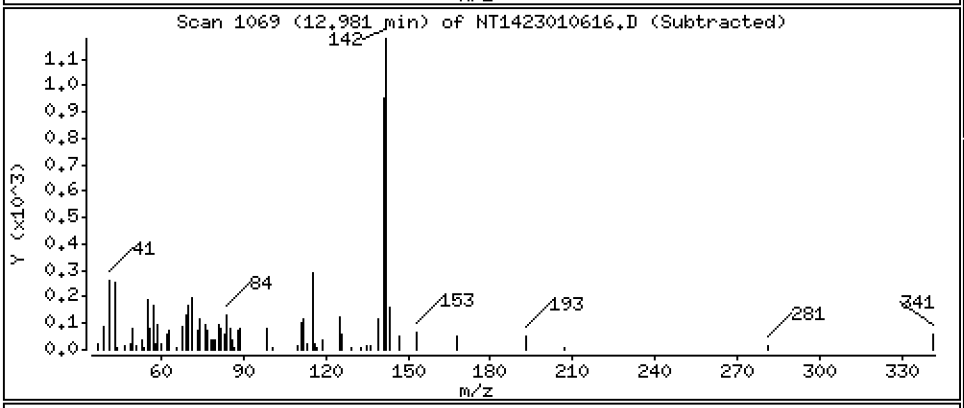
Column diameter: 0.25

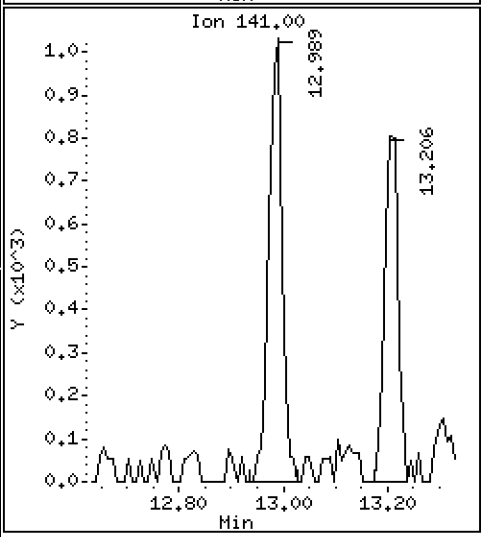
32 2-Methylnaphthalene

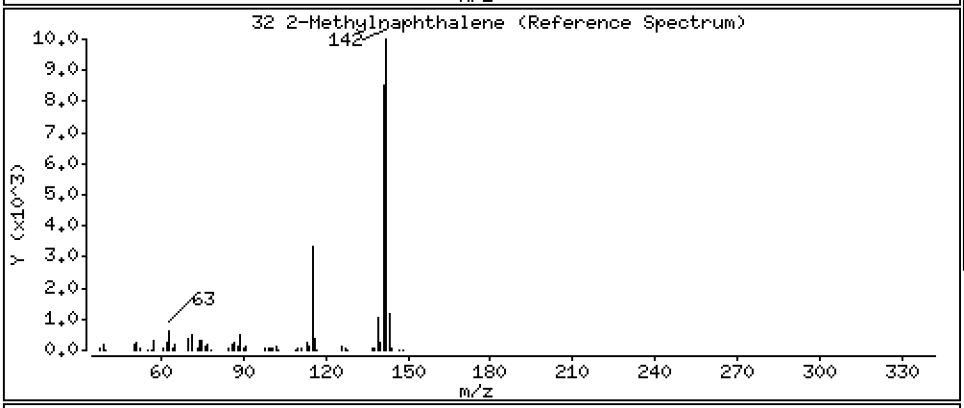
Concentration: 0.02412 ug/mL

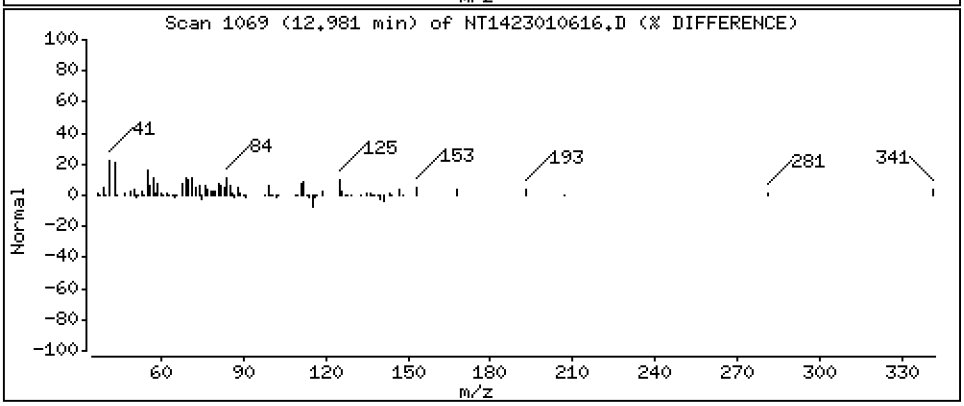












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

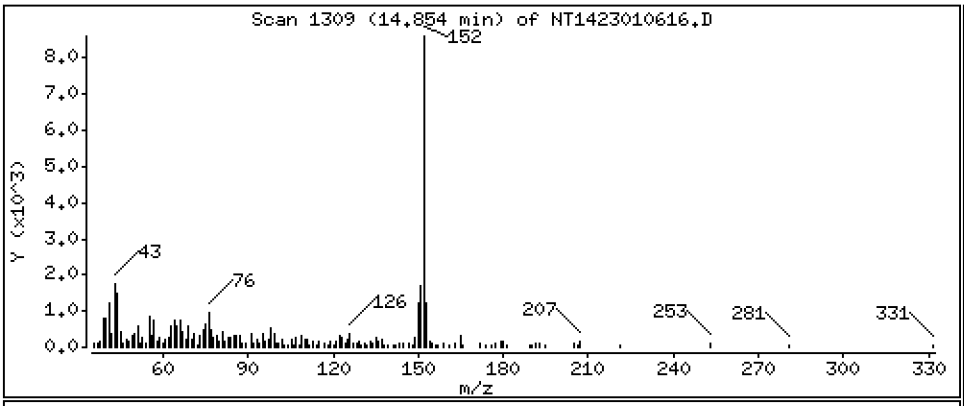
Operator: VTS

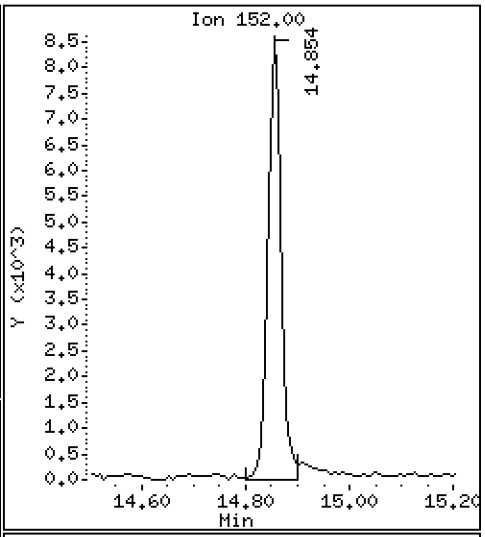
Column phase: ZB-5msi

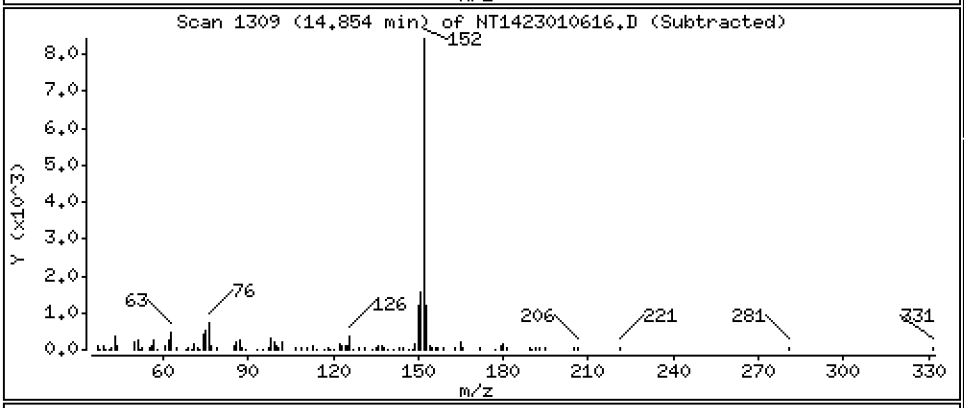
Column diameter: 0.25

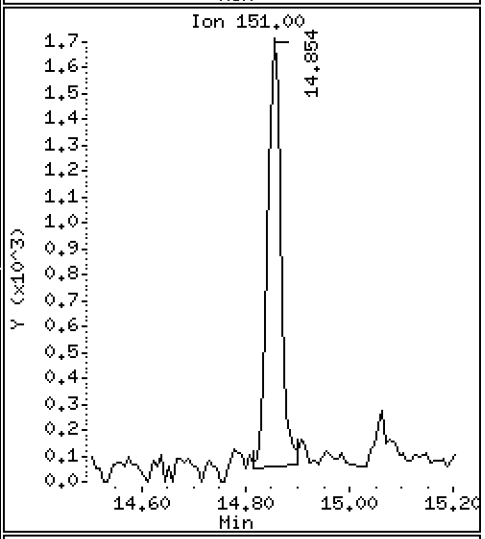
40 Acenaphthylene

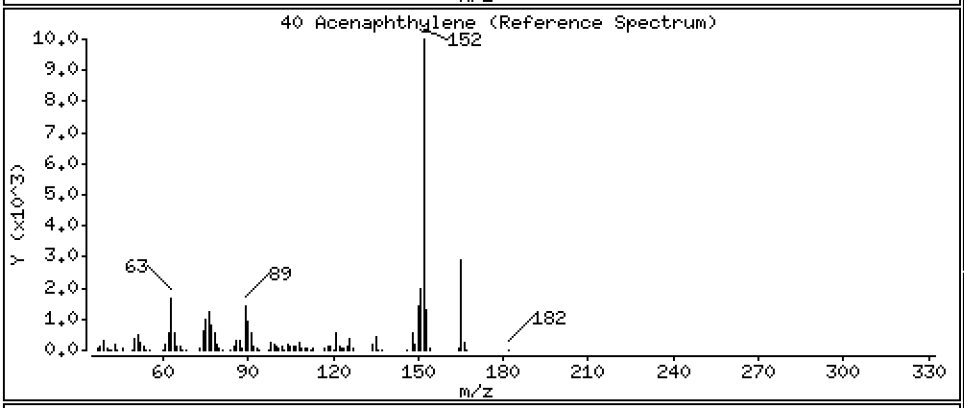
Concentration: 0.1376 ug/mL

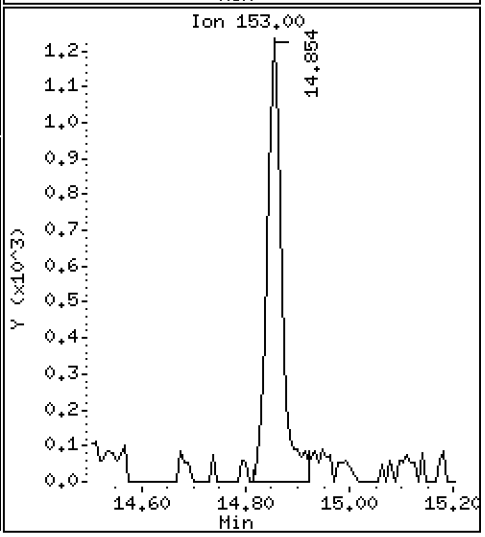


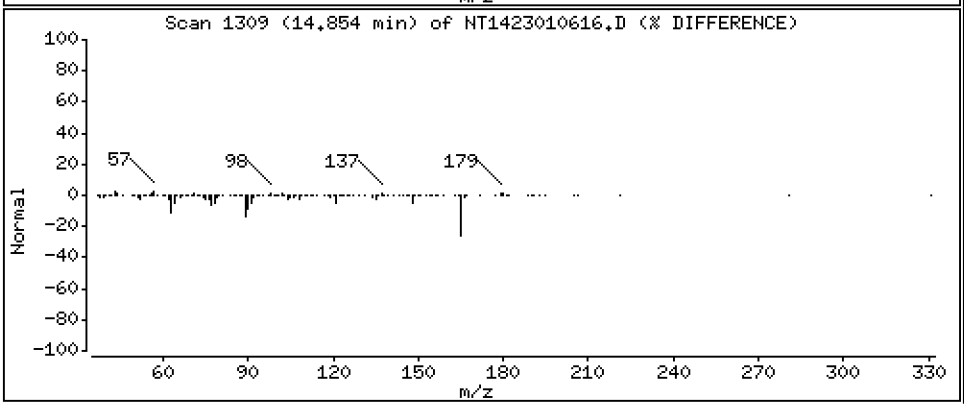












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

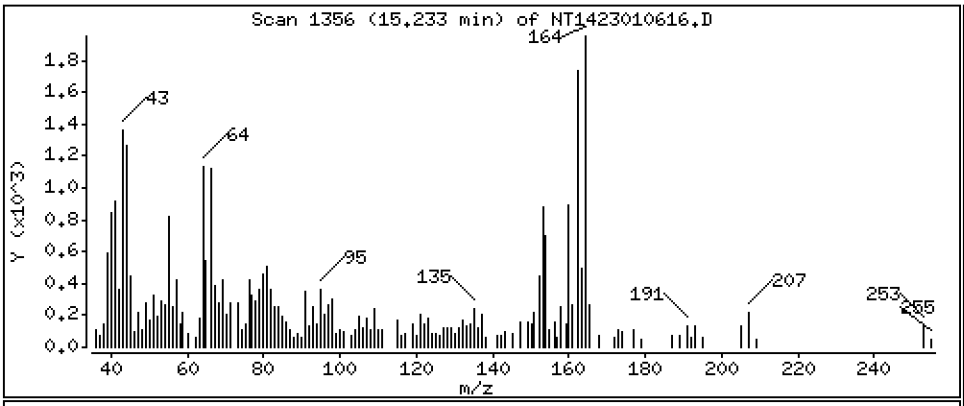
Operator: VTS

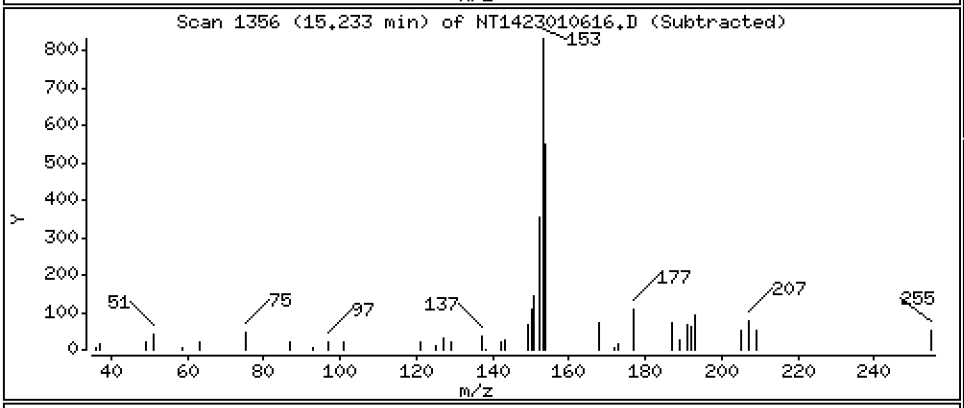
Column phase: ZB-5msi

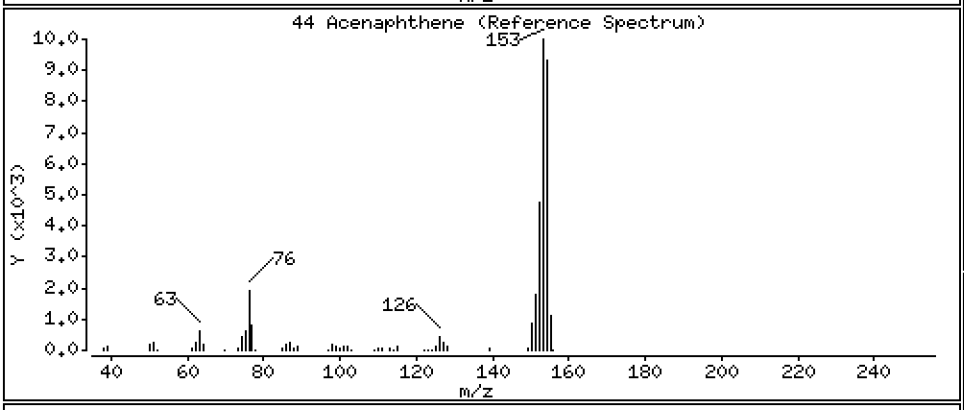
Column diameter: 0.25

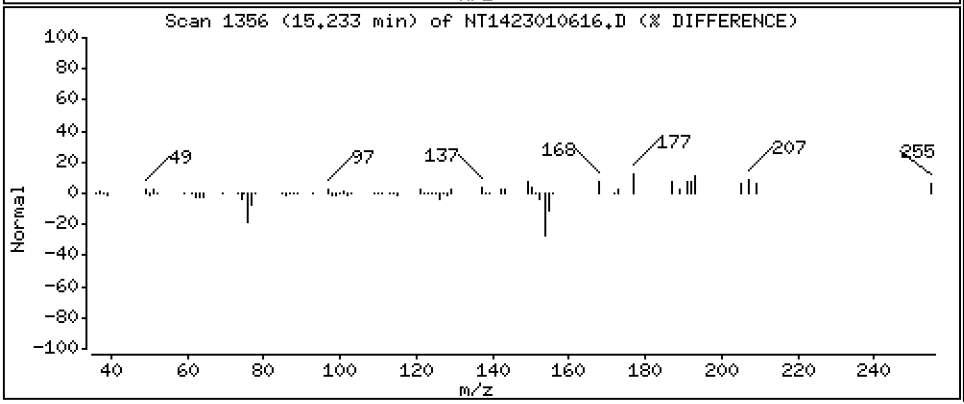
44 Acenaphthene

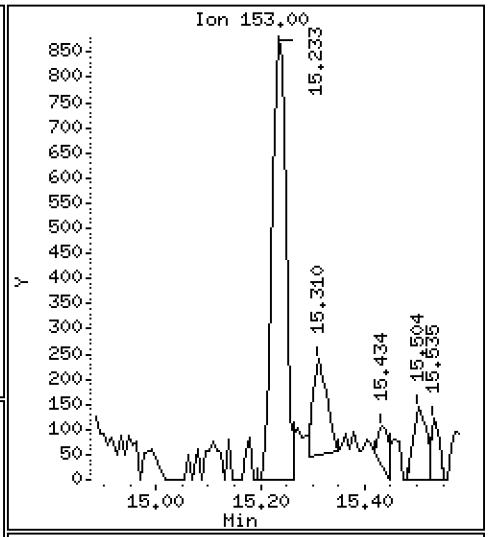
Concentration: 0.02405 ug/mL

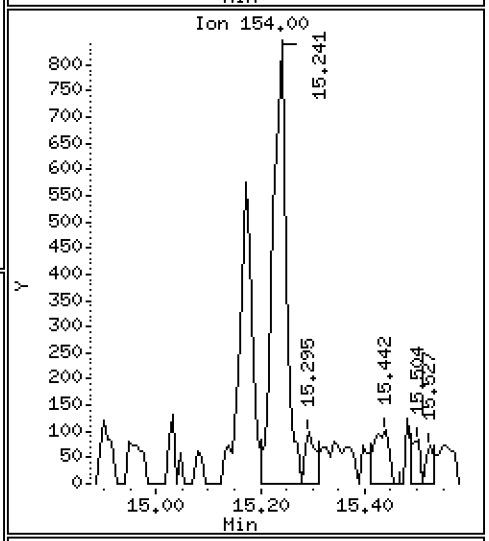


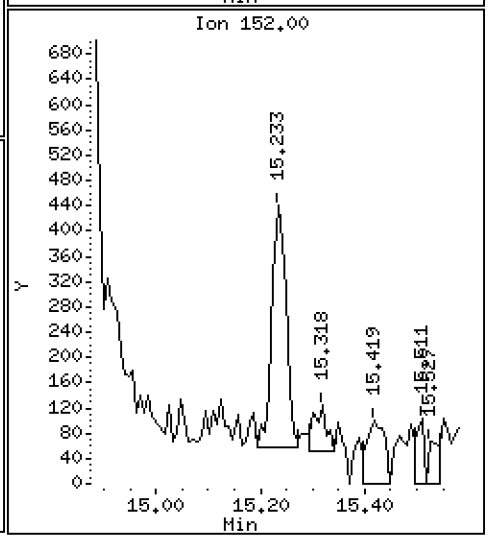












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

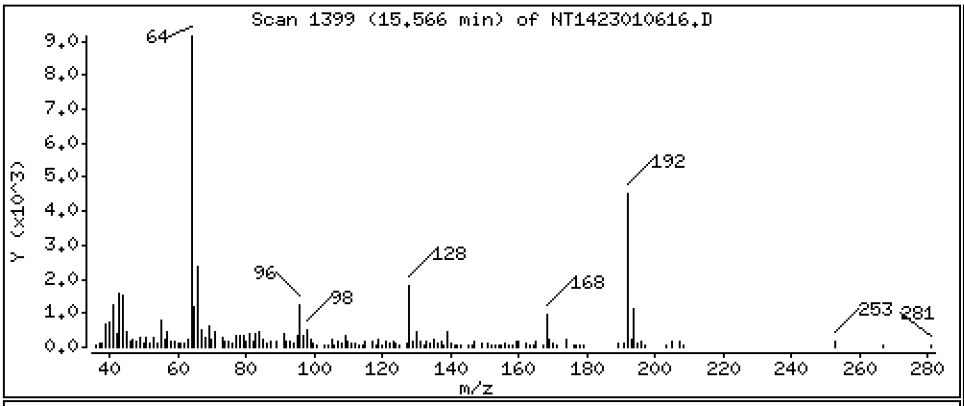
Operator: VTS

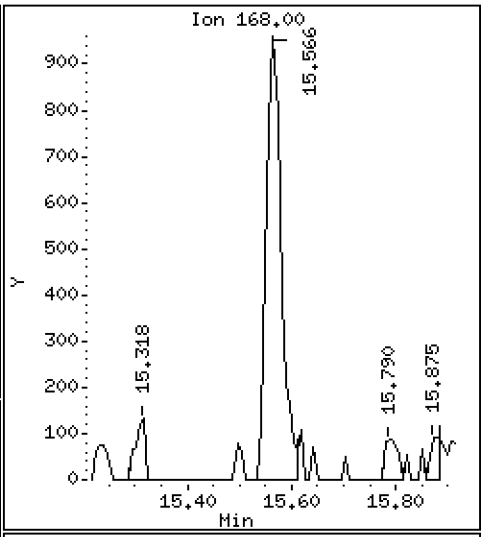
Column phase: ZB-5msi

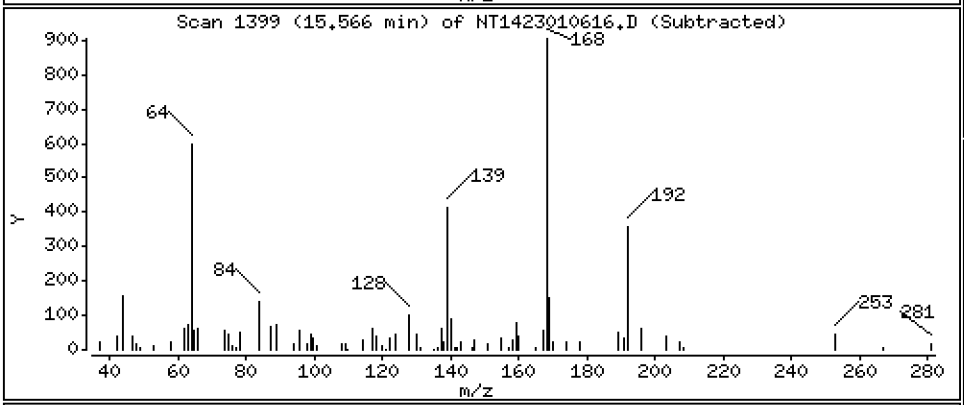
Column diameter: 0.25

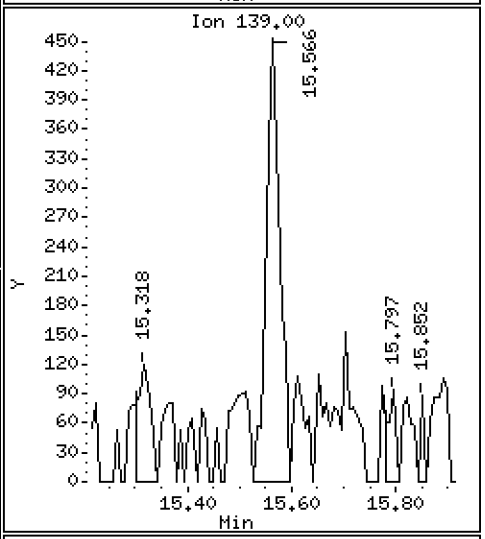
46 Dibenzofuran

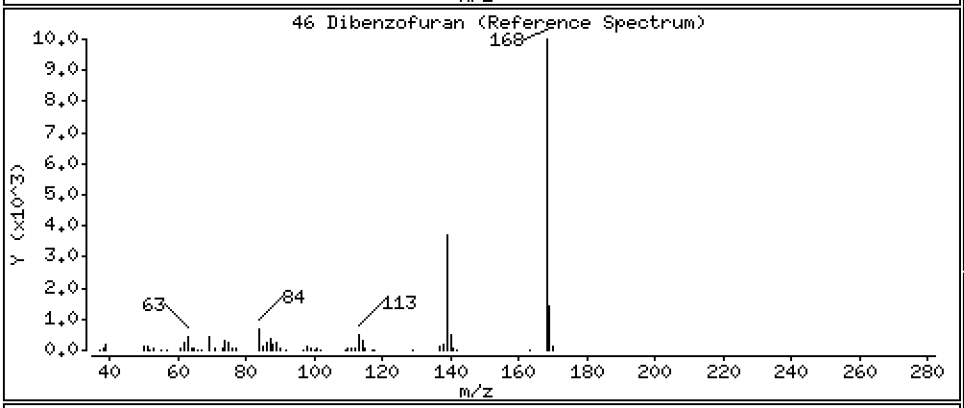
Concentration: 0.01919 ug/mL

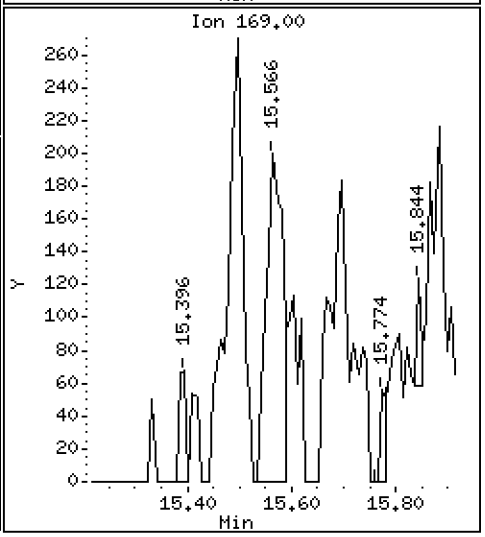


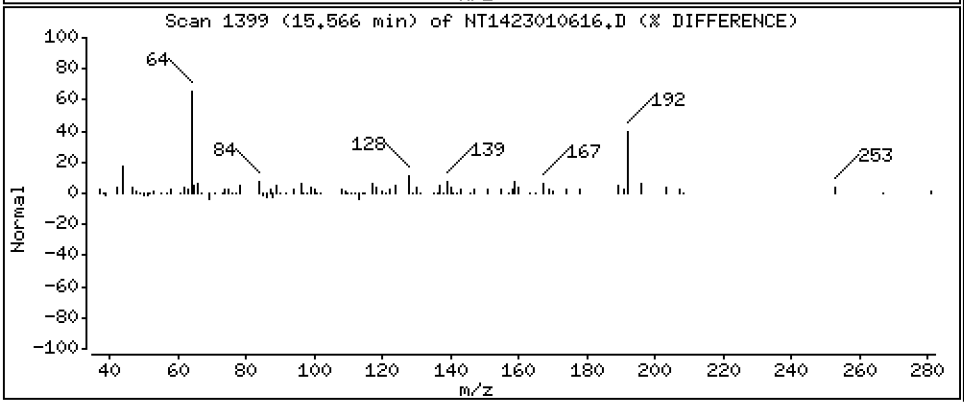












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

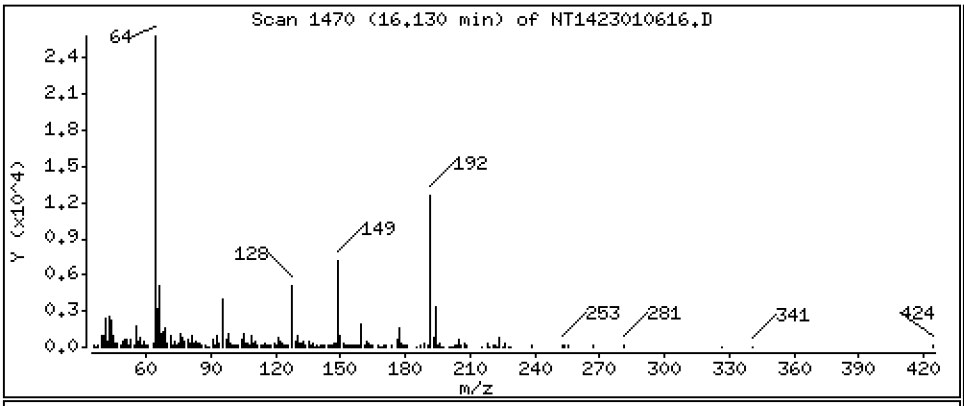
Operator: VTS

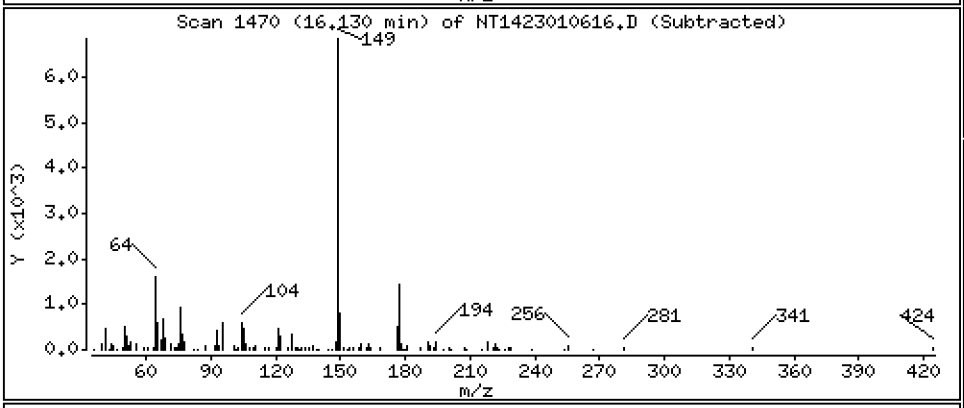
Column phase: ZB-5msi

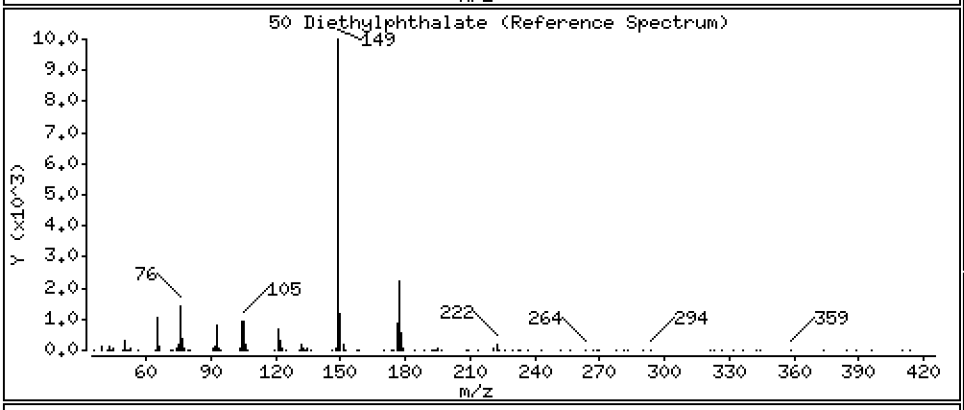
Column diameter: 0.25

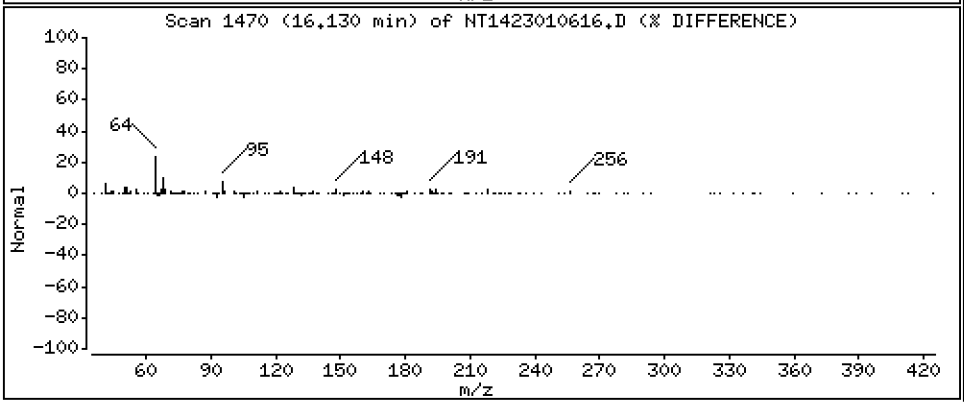
50 Diethylphthalate

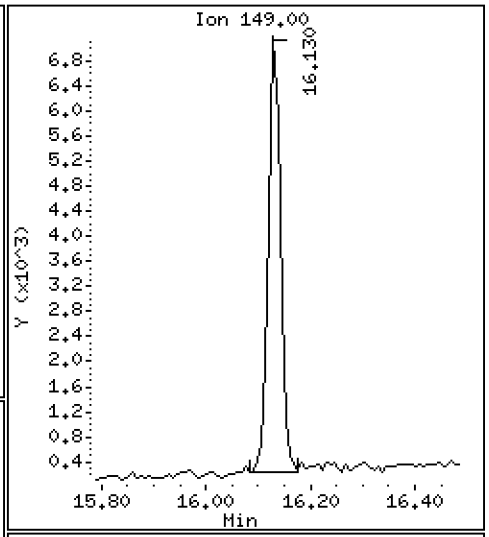
Concentration: 0.1157 ug/mL

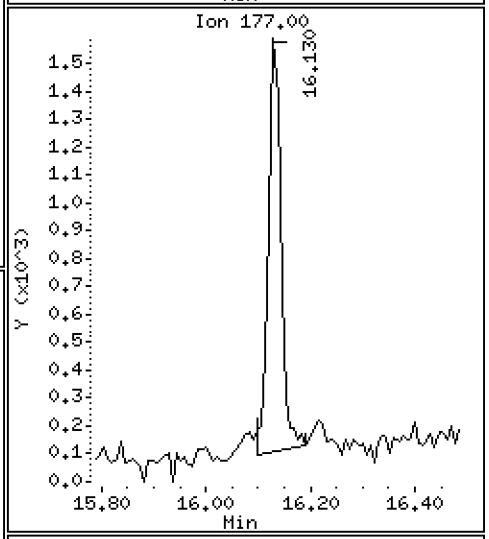


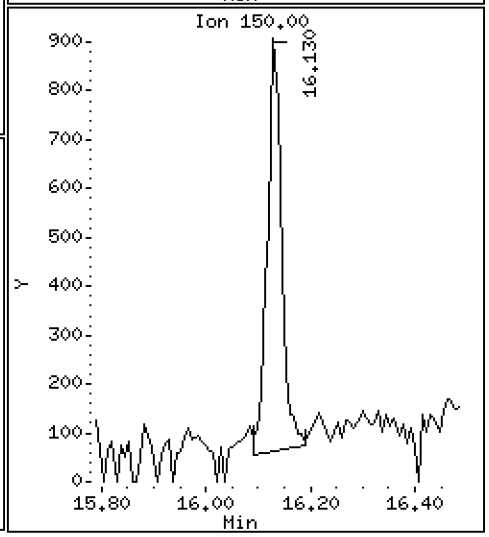












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

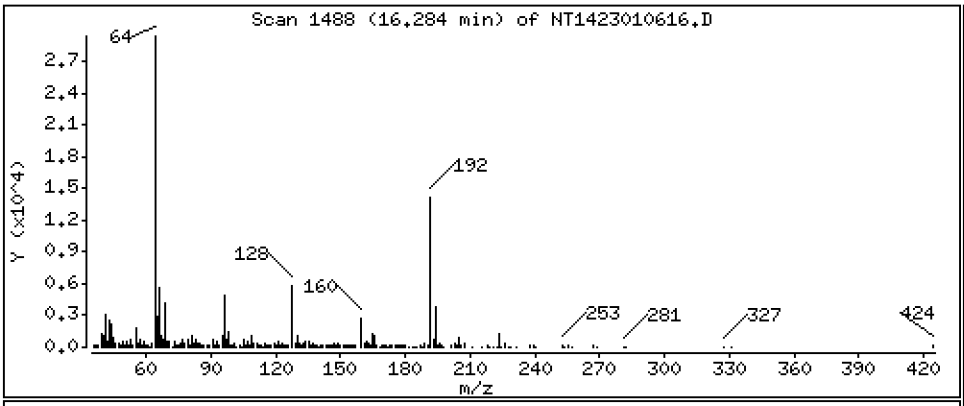
Operator: VTS

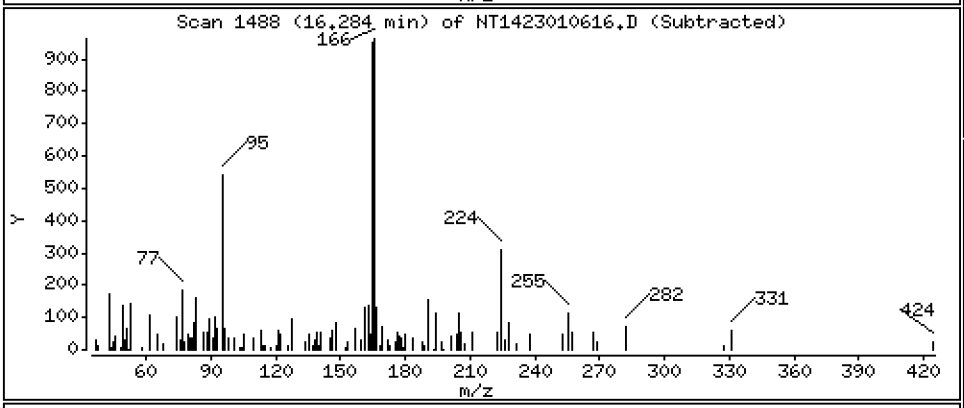
Column phase: ZB-5msi

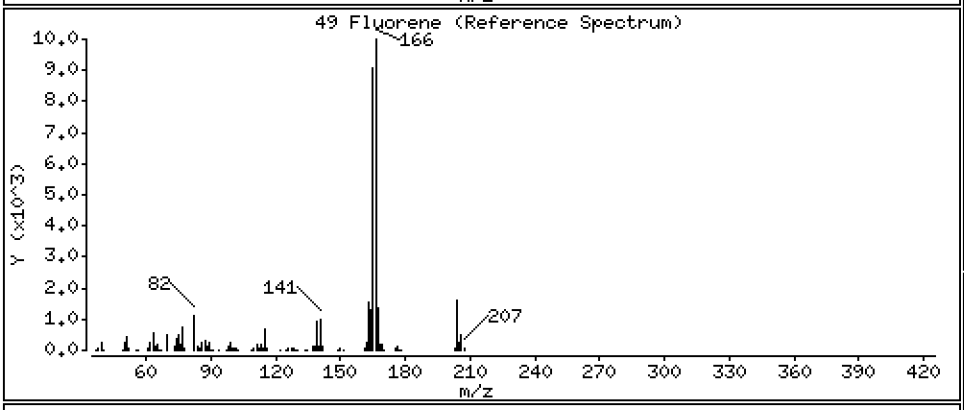
Column diameter: 0.25

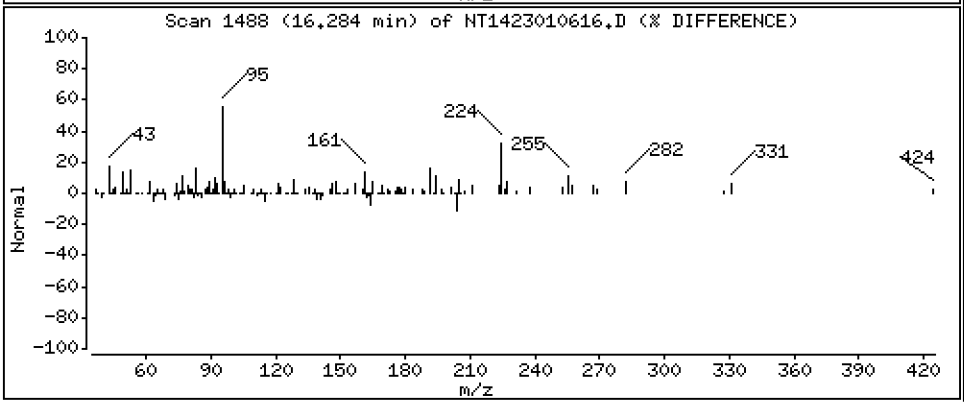
49 Fluorene

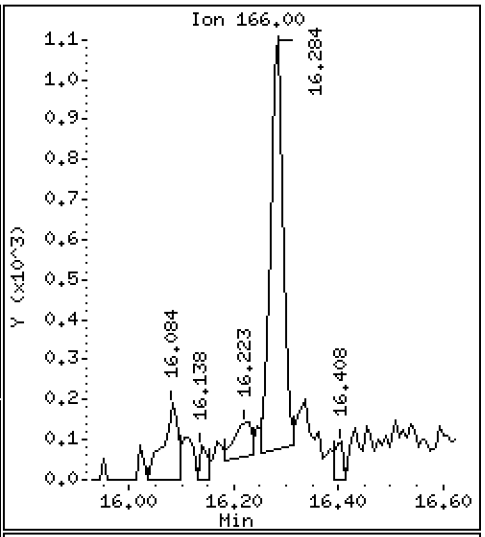
Concentration: 0.01696 ug/mL

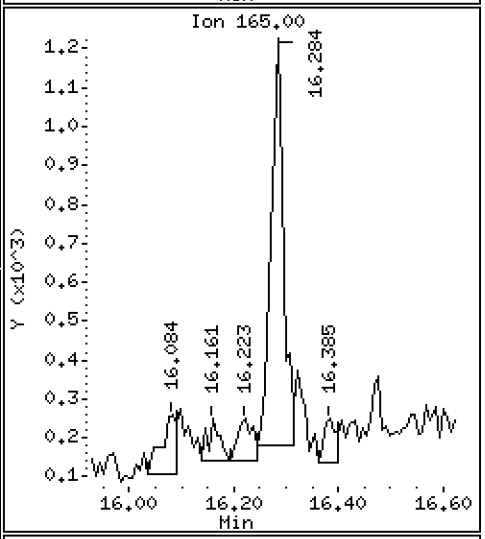


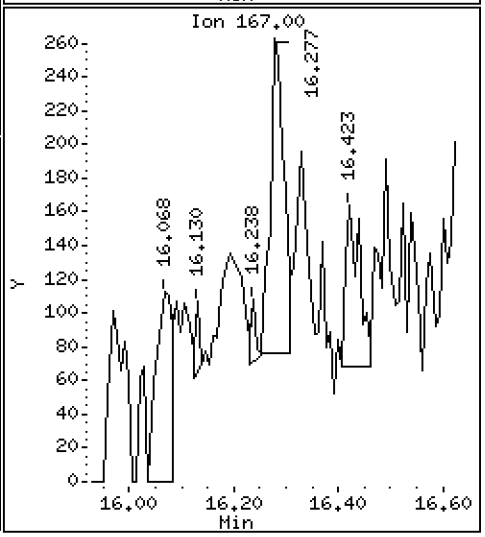












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

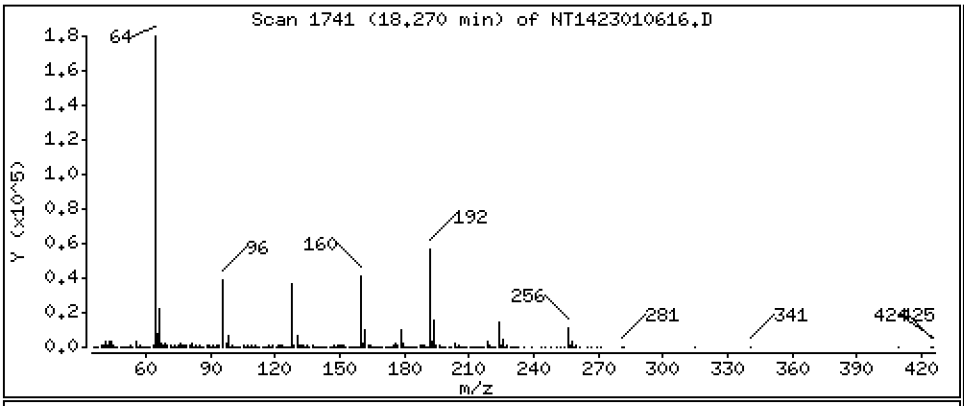
Operator: VTS

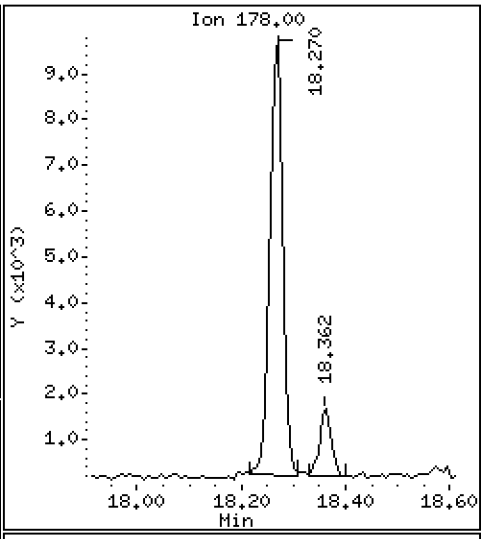
Column phase: ZB-5msi

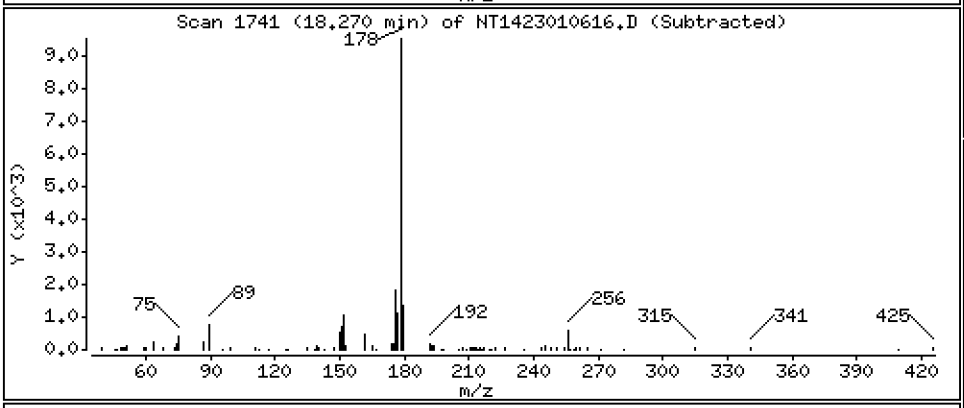
Column diameter: 0.25

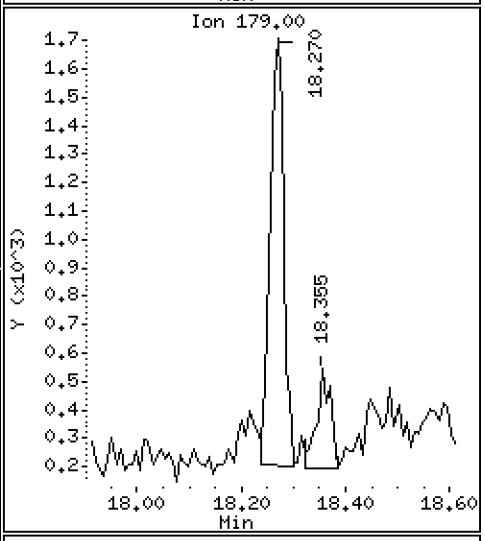
60 Phenanthrene

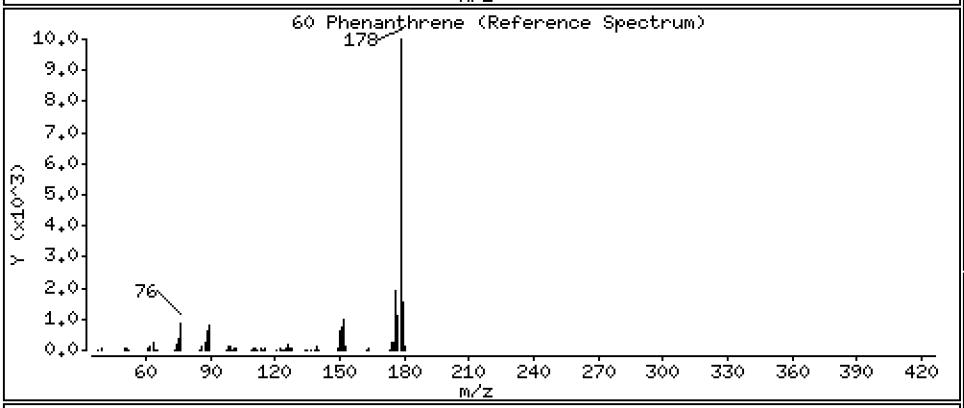
Concentration: 0.1439 ug/mL

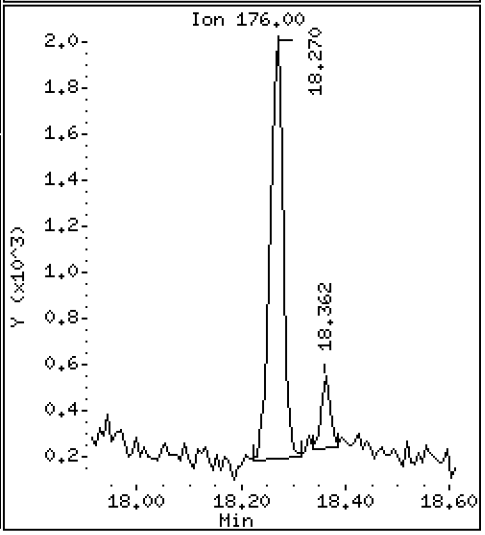


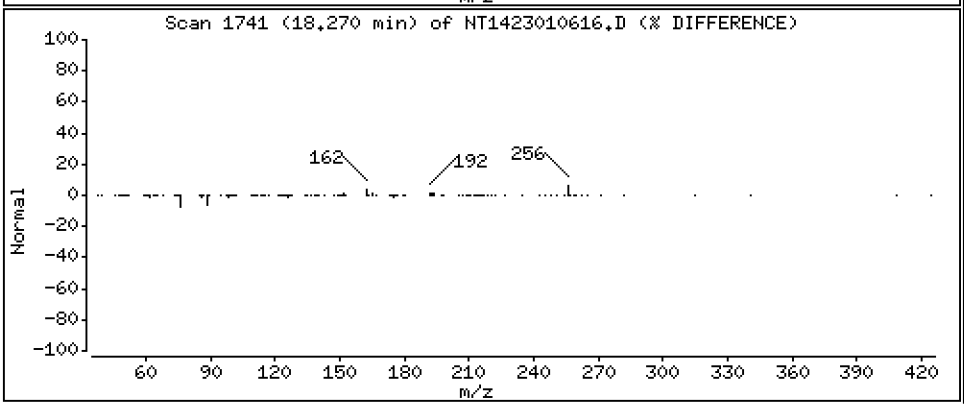












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

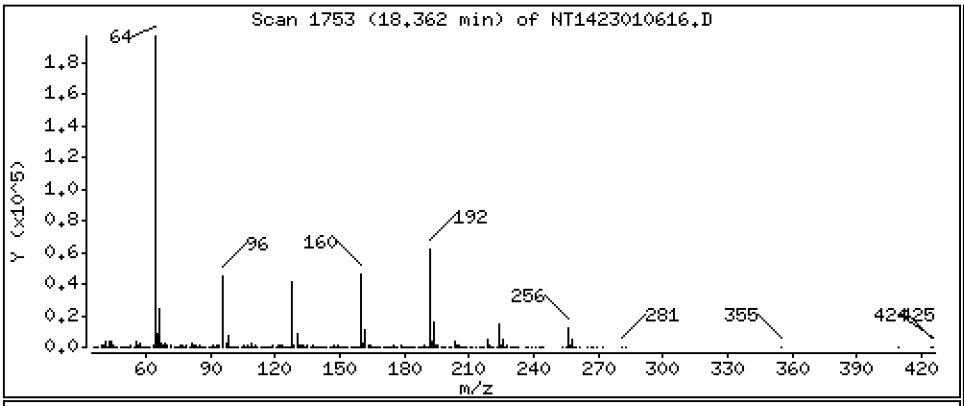
Operator: VTS

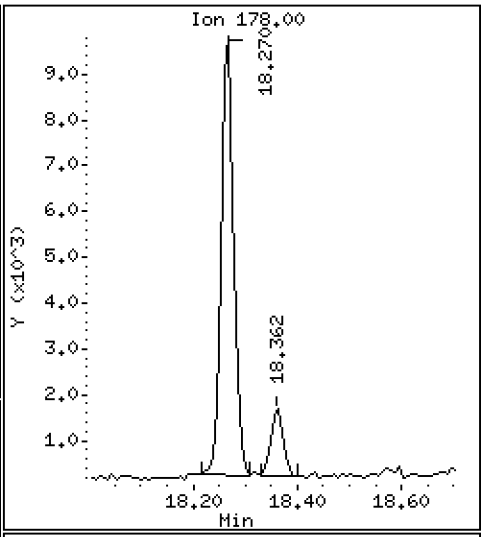
Column phase: ZB-5msi

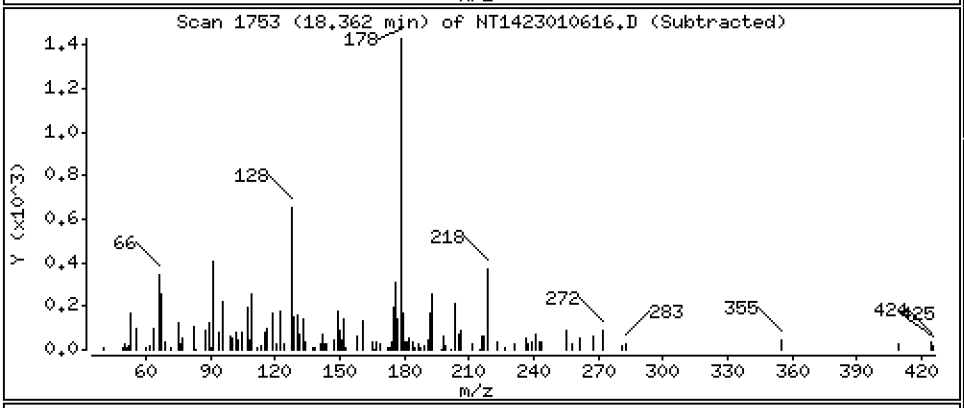
Column diameter: 0.25

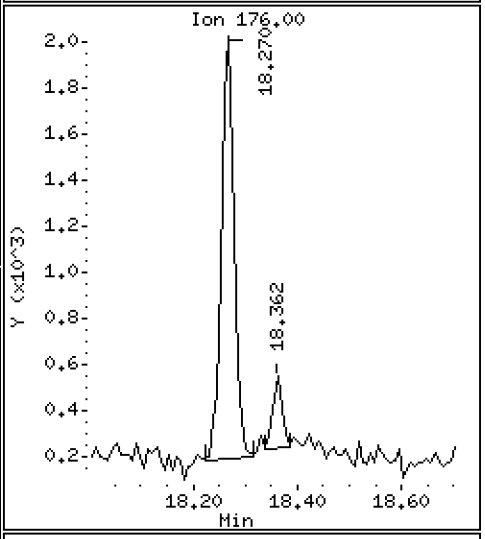
61 Anthracene

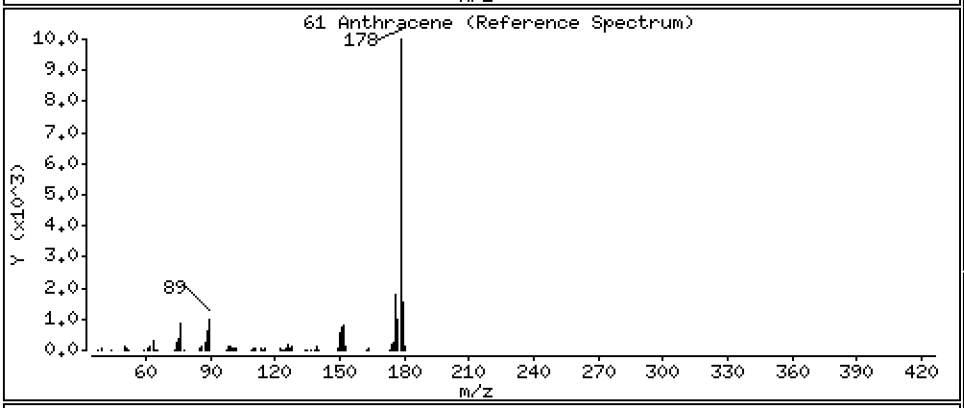
Concentration: 0.02271 ug/mL

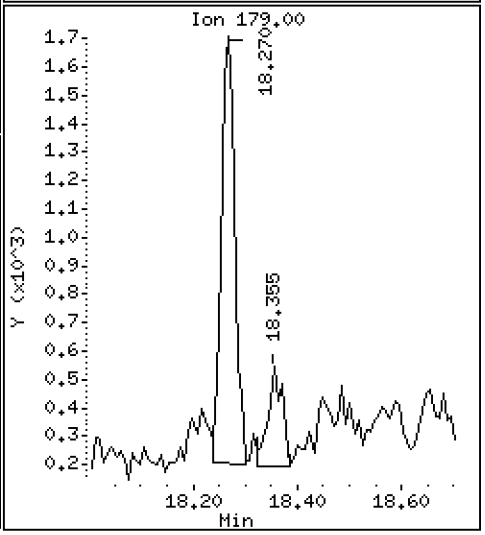


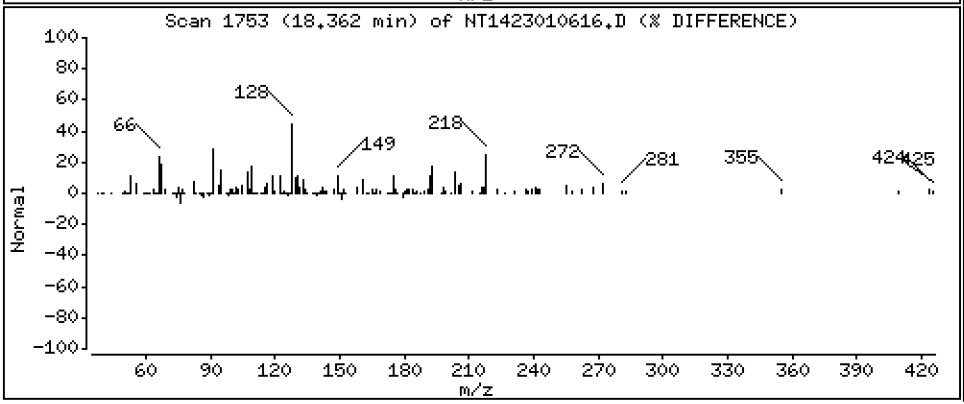












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

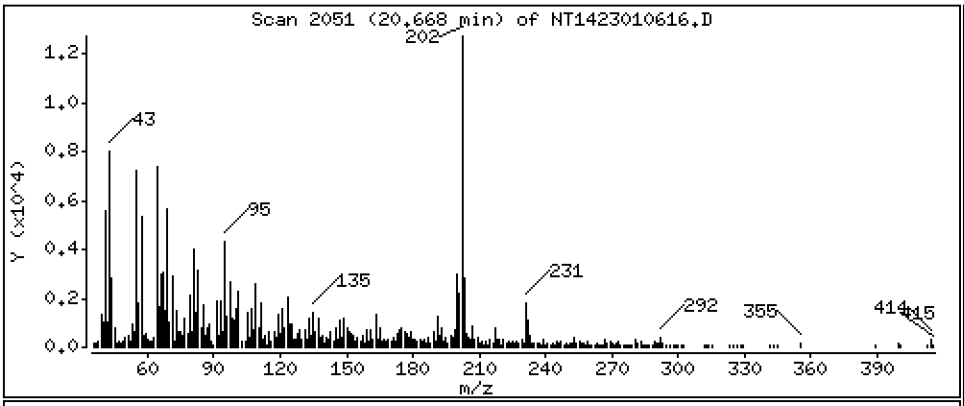
Operator: VTS

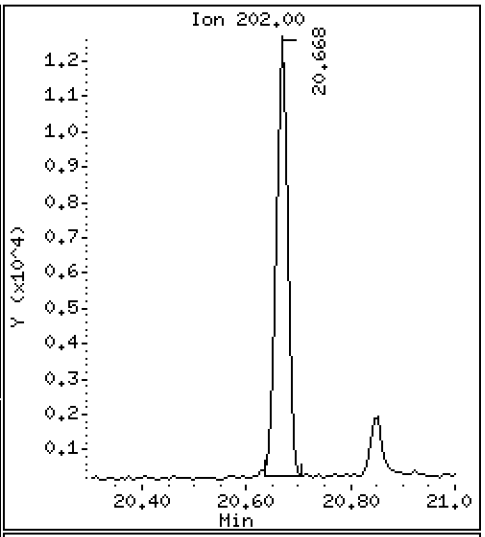
Column phase: ZB-5msi

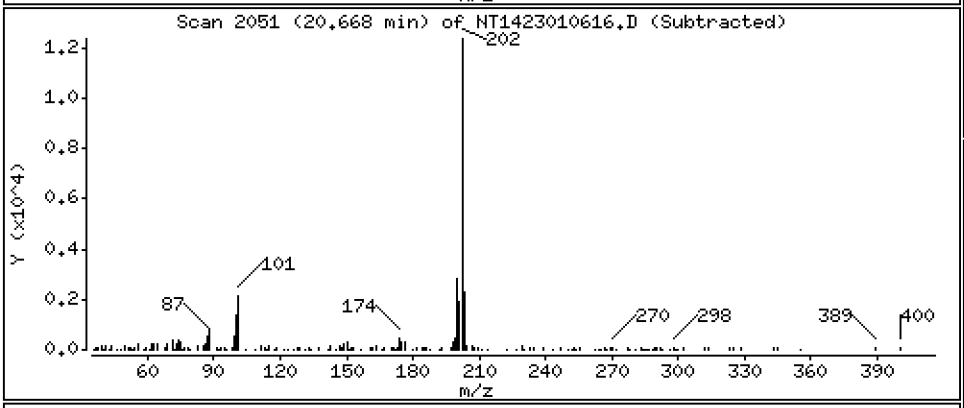
Column diameter: 0.25

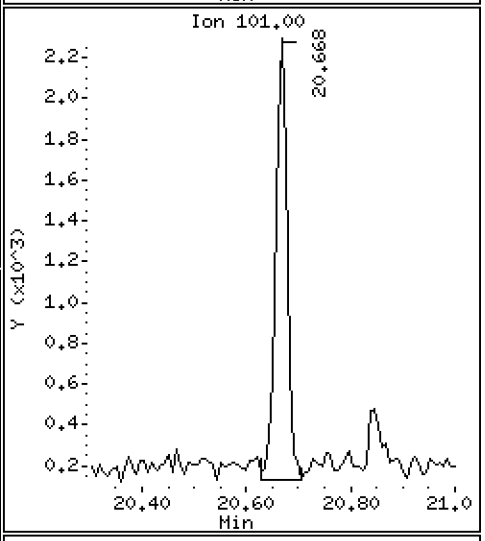
64 Fluoranthene

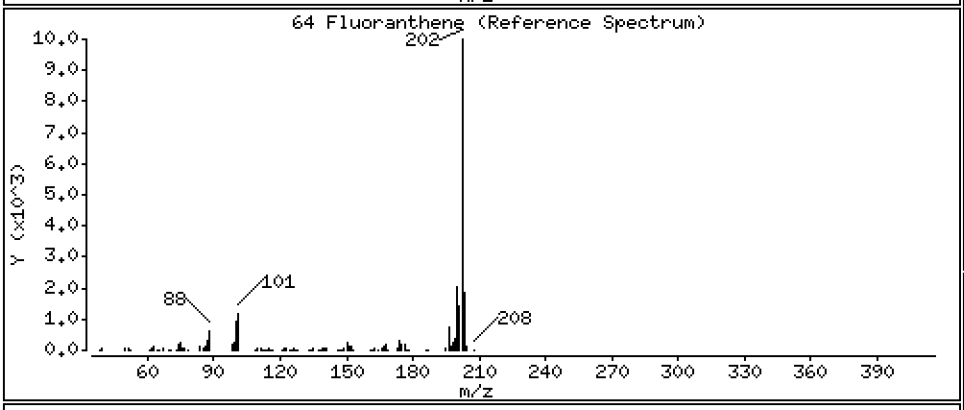
Concentration: 0.1937 ug/mL

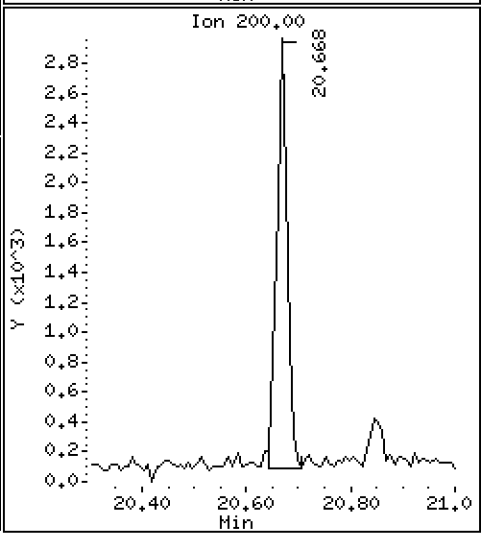


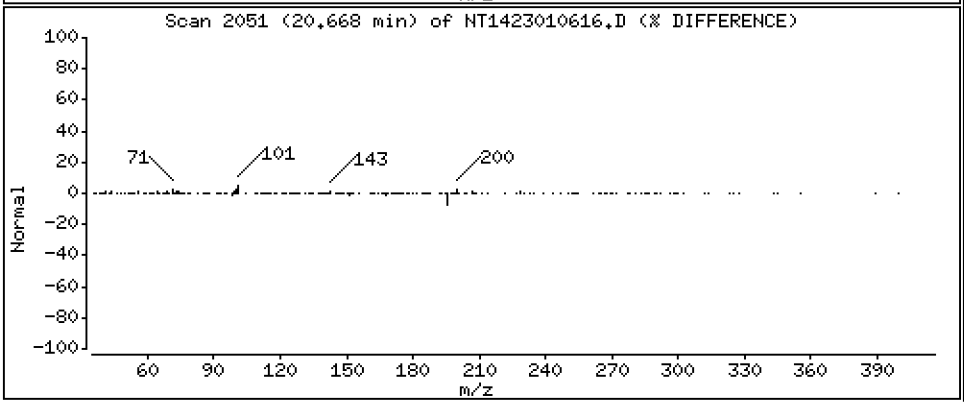












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

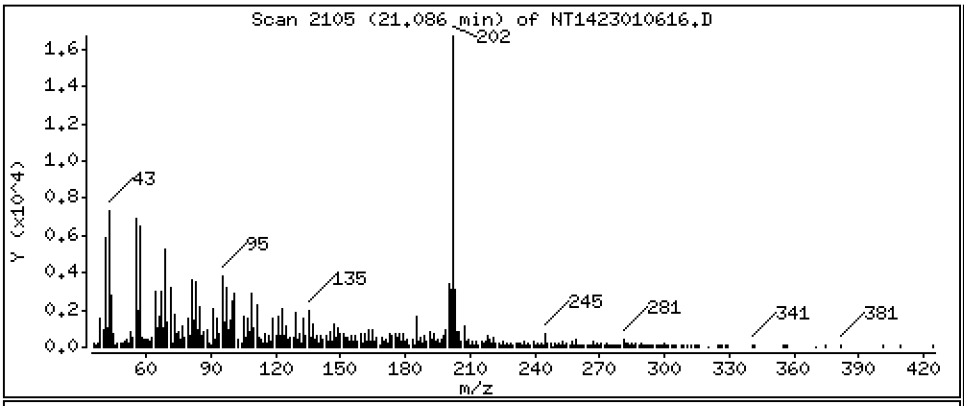
Operator: VTS

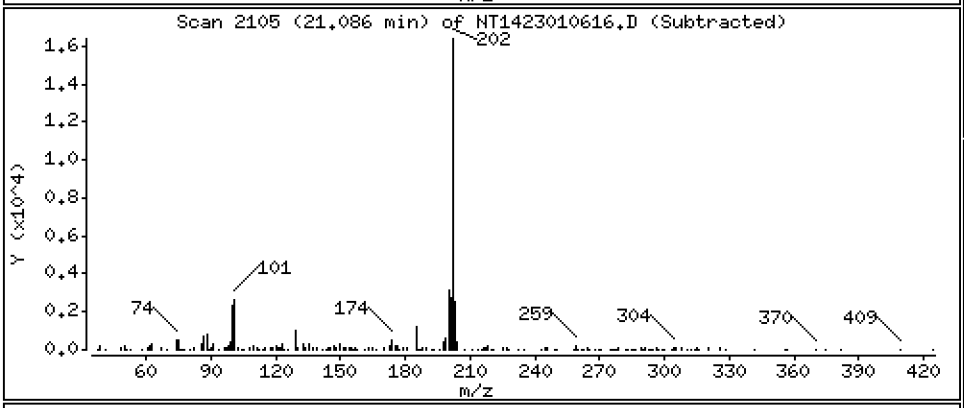
Column phase: ZB-5msi

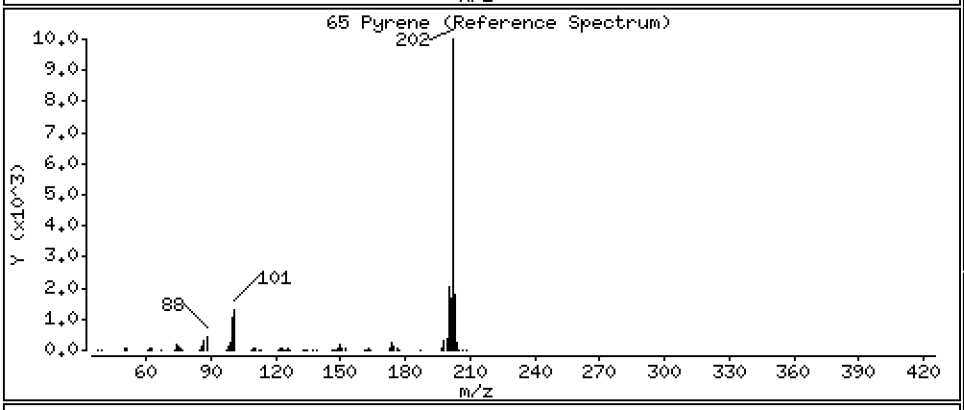
Column diameter: 0.25

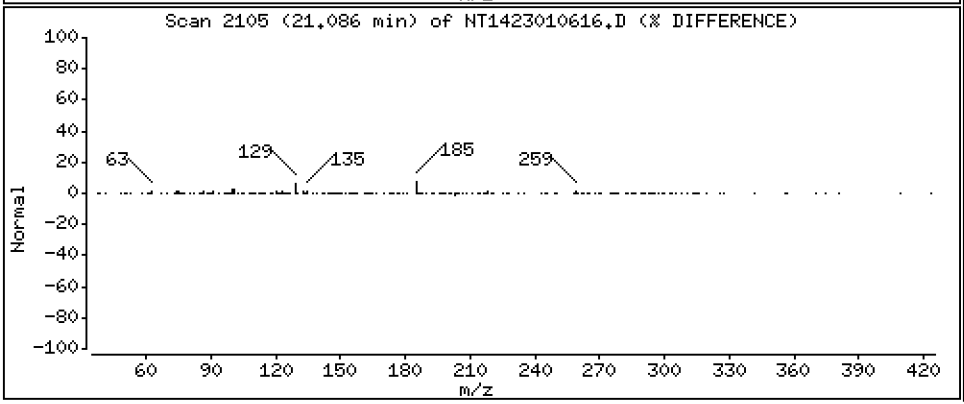
65 Pyrene

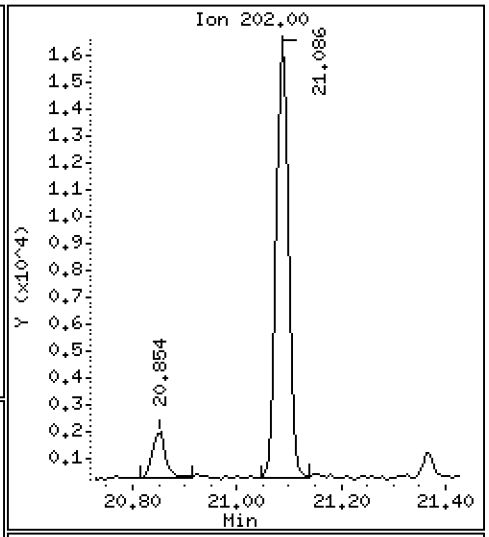
Concentration: 0.2512 ug/mL

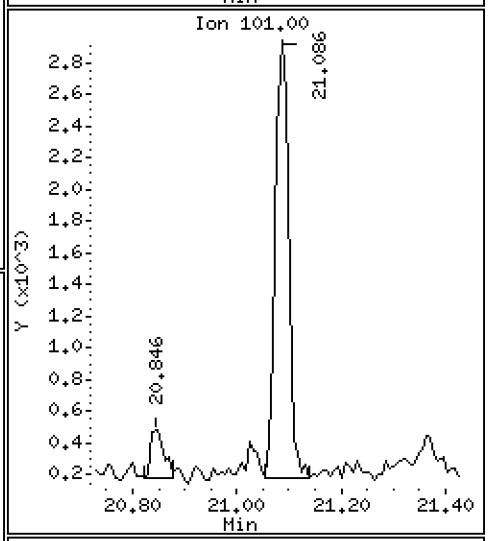


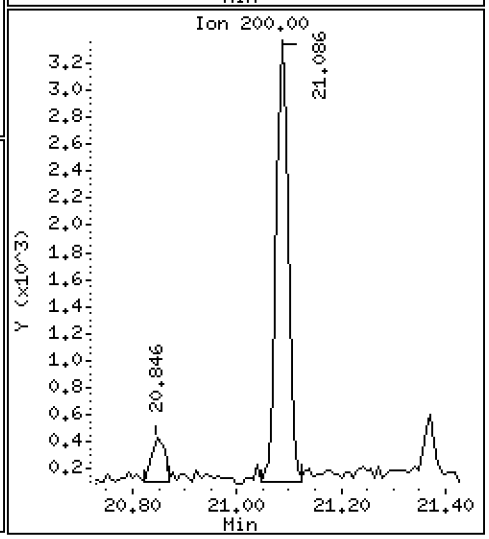












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

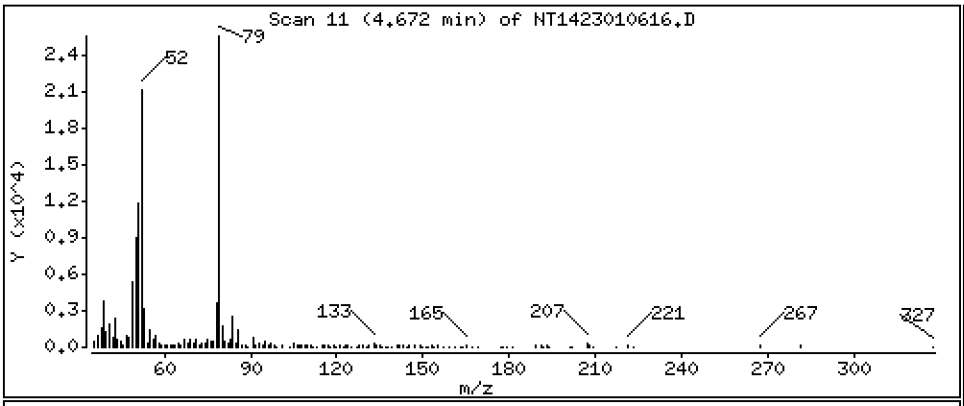
Operator: VTS

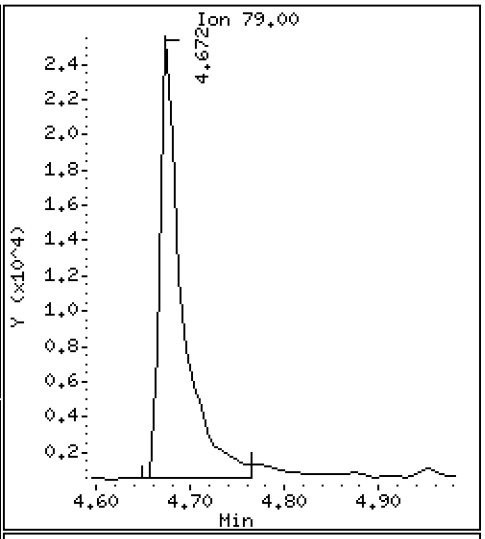
Column phase: ZB-5msi

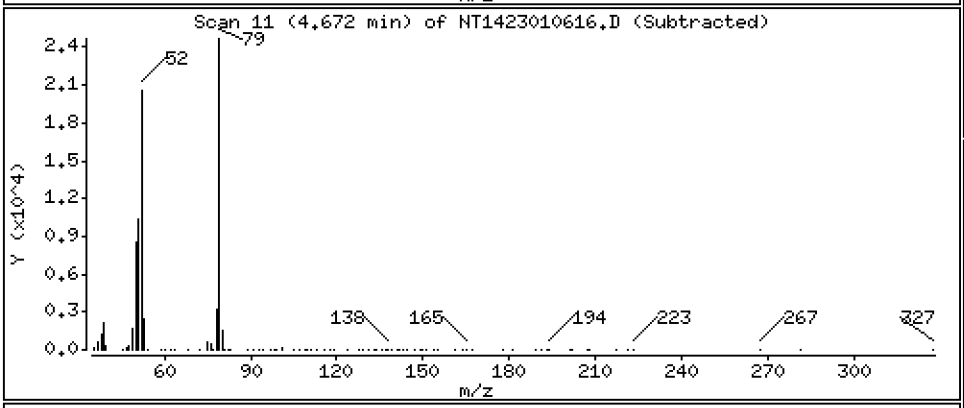
Column diameter: 0.25

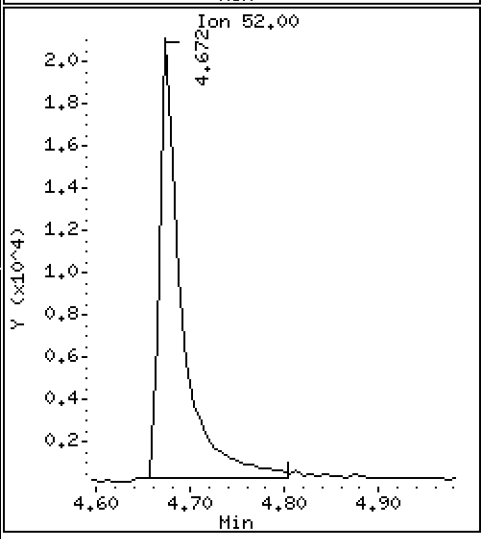
103 Pyridine

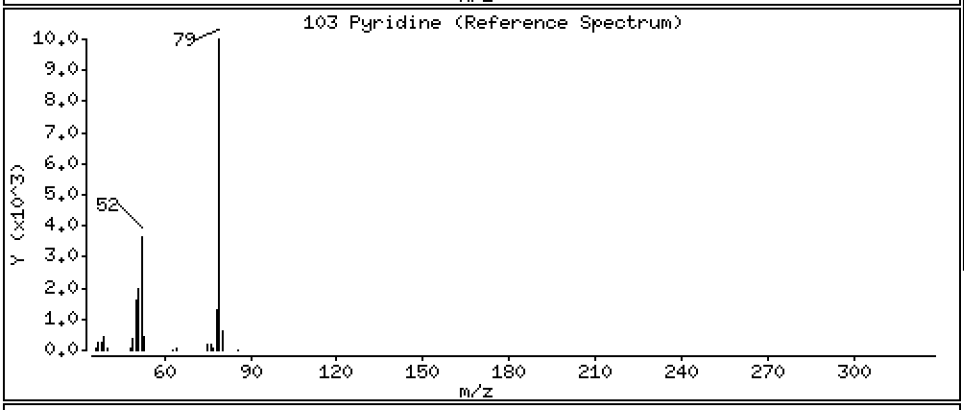
Concentration: 0.4642 ug/mL

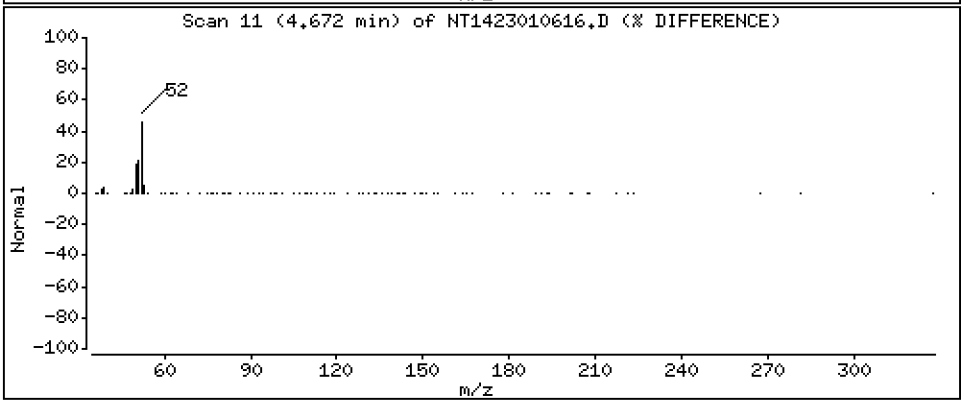












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Date : 06-JAN-2023 20:38

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-45

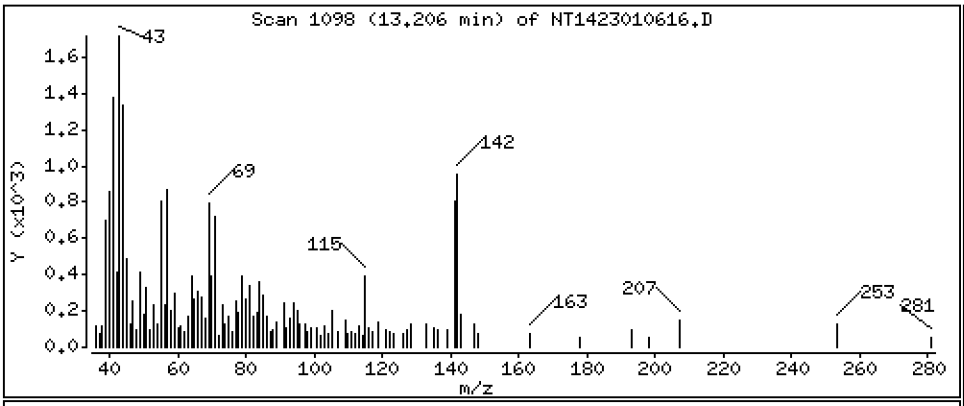
Operator: VTS

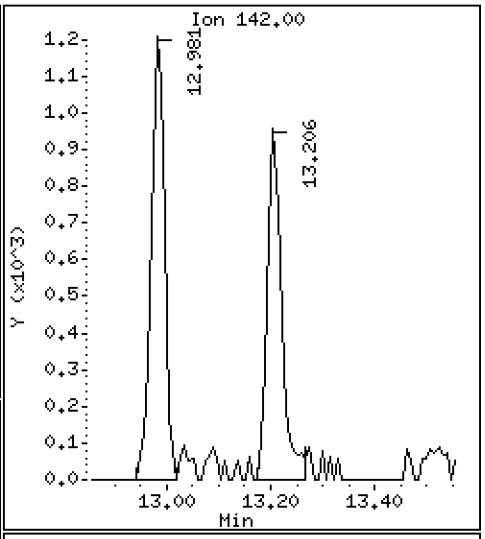
Column phase: ZB-5msi

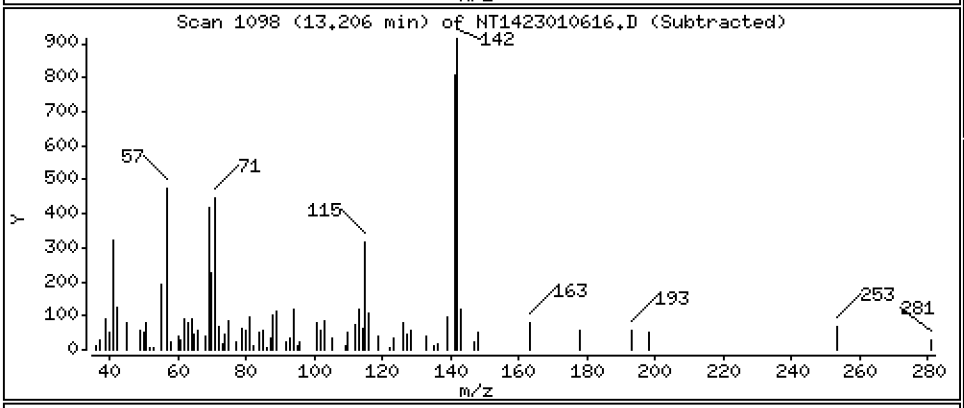
Column diameter: 0.25

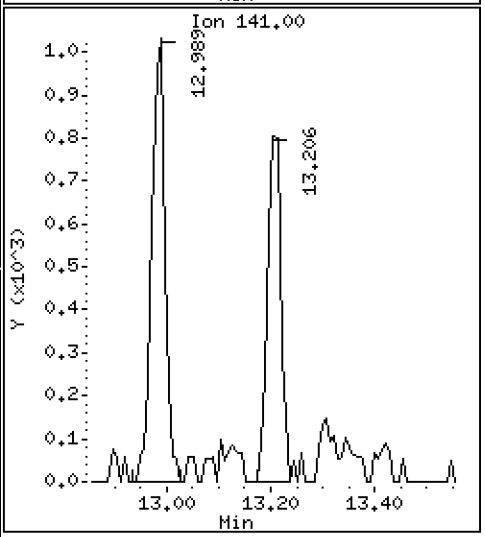
105 1-methylnaphthalene

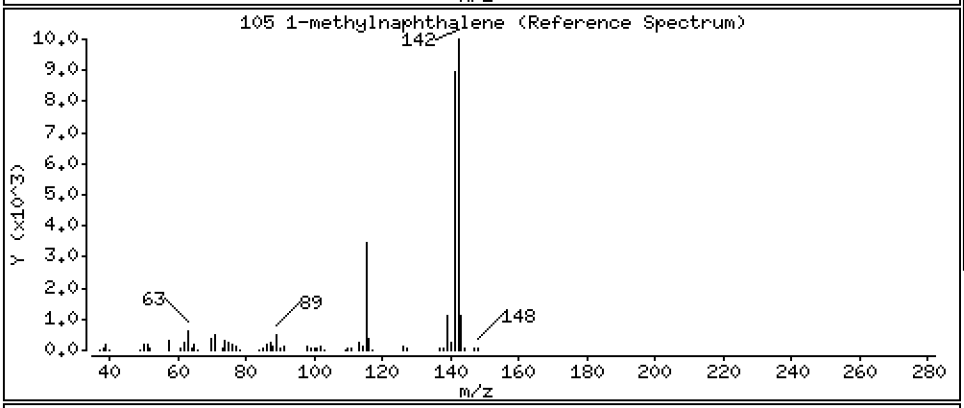
Concentration: 0.02155 ug/mL

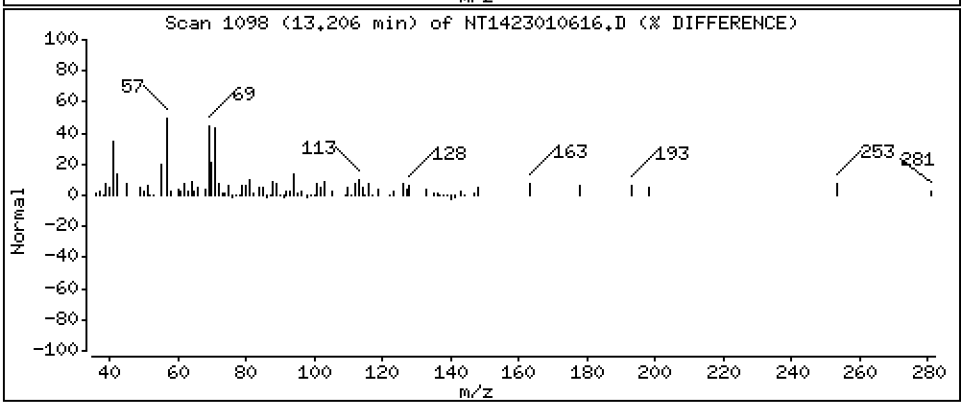












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010616.D
Lab Smp Id: 22L0246-45
Inj Date : 06-JAN-2023 20:38 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-45
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 11-Jan-2023 14:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 16
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.826	6.811	(0.755)	215853	5.26932	5.269
$	2 Phenol-d5	99	8.410	8.403	(0.931)	276644	5.46466	5.465
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	251793	5.92226	5.922
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	127864	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	109844	3.78004	3.780
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	185341	4.64192	4.642
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	472830	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	31317	0.26914	0.2691
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	2059	0.02412	0.02412
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)	
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.						
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.						
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	337934	4.19963	4.200	
	37	2-Chloronaphthalene	162	Compound Not Detected.						
	38	2-Nitroaniline	65	Compound Not Detected.						
	39	Dimethylphthalate	163	Compound Not Detected.						
	40	Acenaphthylene	152	14.854	14.853	(0.979)	14366	0.13763	0.1376	
	41	2,6-Dinitrotoluene	165	Compound Not Detected.						
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	239329	4.00000		
	43	3-Nitroaniline	138	Compound Not Detected.						
	44	Acenaphthene	153	15.233	15.232	(1.004)	1557	0.02405	0.02405	
	45	2,4-Dinitrophenol	184	Compound Not Detected.						
	46	Dibenzofuran	168	15.565	15.565	(1.026)	1863	0.01919	0.01919	
	47	4-Nitrophenol	109	Compound Not Detected.						
	48	2,4-Dinitrotoluene	165	Compound Not Detected.						
	50	Diethylphthalate	149	16.129	16.137	(1.063)	10615	0.11571	0.1157	
	49	Fluorene	166	16.284	16.276	(1.073)	1752	0.01696	0.01696	
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.						
	52	4-Nitroaniline	138	Compound Not Detected.						
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.						
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.						
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	72357	6.24292	6.243	
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.						
	57	Hexachlorobenzene	284	Compound Not Detected.						
	58	Pentachlorophenol	266	Compound Not Detected.						
*	59	Phenanthrene-d10	188	18.223	18.215	(1.000)	420090	4.00000		
	60	Phenanthrene	178	18.269	18.261	(1.003)	15756	0.14385	0.1439	
	61	Anthracene	178	18.362	18.354	(1.008)	2375	0.02271	0.02271	
	62	Carbazole	167	Compound Not Detected.						
	63	Di-n-butylphthalate	149	Compound Not Detected.						
	64	Fluoranthene	202	20.668	20.652	(0.888)	18588	0.19374	0.1937	(H)
	65	Pyrene	202	21.085	21.077	(0.906)	25336	0.25116	0.2512	
$	66	Terphenyl-d14	244	21.372	21.364	(0.918)	329364	4.60470	4.605	
	67	Butylbenzylphthalate	149	Compound Not Detected.						
	68	Benzo(a)anthracene	228	Compound Not Detected.						
*	69	Chrysene-d12	240	23.276	23.268	(1.000)	297975	4.00000		
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.						
	71	Chrysene	228	Compound Not Detected.						
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.						
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	593537	4.00000		(H)
	73	Di-n-octylphthalate	149	Compound Not Detected.						
	74	Benzo(b)fluoranthene	252	Compound Not Detected.						
	75	Benzo(k)fluoranthene	252	Compound Not Detected.						
	76	Benzo(a)pyrene	252	Compound Not Detected.						
*	77	Perylene-d12	264	25.901	25.901	(1.000)	328600	4.00000		
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.						
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.						
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.						
	90	N-Nitrosodimethylamine	74	Compound Not Detected.						
	91	Aniline	93	Compound Not Detected.						
	93	Benzidine	184	Compound Not Detected.						
	103	Pyridine	79	4.672	4.633	(0.517)	41612	0.46418	0.4642	
	105	1-methylnaphthalene	142	13.205	13.205	(1.144)	1767	0.02155	0.02155	
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.						

						CONCENTRATIONS	
	QUANT SIG					ON-COLUMN	FINAL
Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010616.D
Lab Smp Id: 22L0246-45
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	127864	-4.66
27 Naphthalene-d8	499117	249559	998234	472830	-5.27
42 Acenaphthene-d10	260320	130160	520640	239329	-8.06
59 Phenanthrene-d10	432406	216203	864812	420090	-2.85
69 Chrysene-d12	317887	158944	635774	297975	-6.26
134 Di-n-octylphthala	664061	332031	1328122	593537	-10.62
77 Perylene-d12	313716	156858	627432	328600	4.74

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010616.D

Lab ID: 22L0246-45
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 20:38

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1423010602.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809E

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

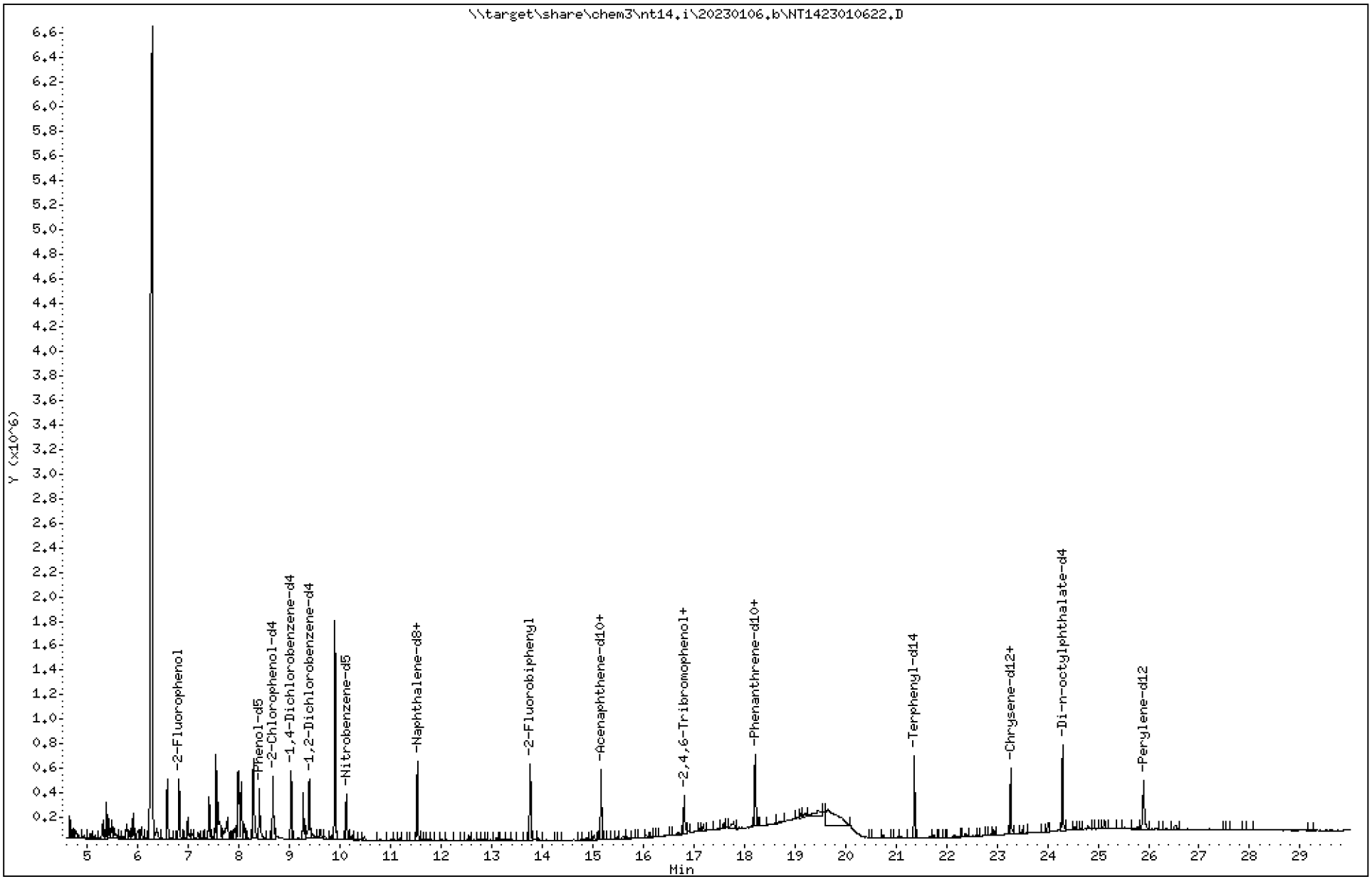
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-46 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010622.D
% Solids:	81.98	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/07/23 00:15
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	12.23 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	19.9	U	9.4	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	498.70	511	102	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D
Date : 07-JAN-2023 00:15
Client ID:
Sample Info: 22L0246-46

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D

Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

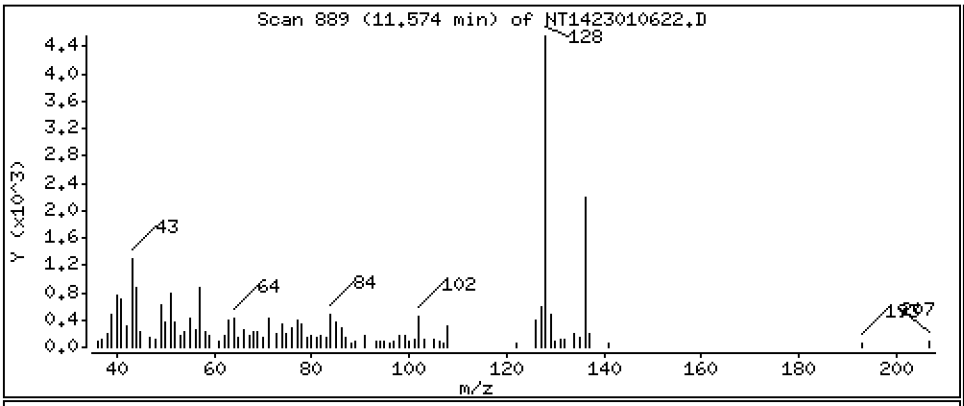
Operator: VTS

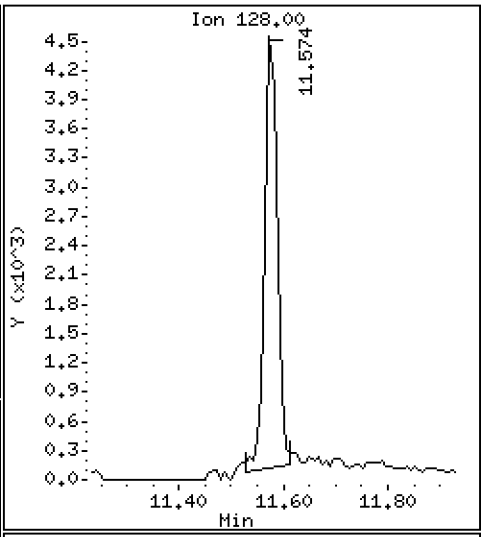
Column phase: ZB-5msi

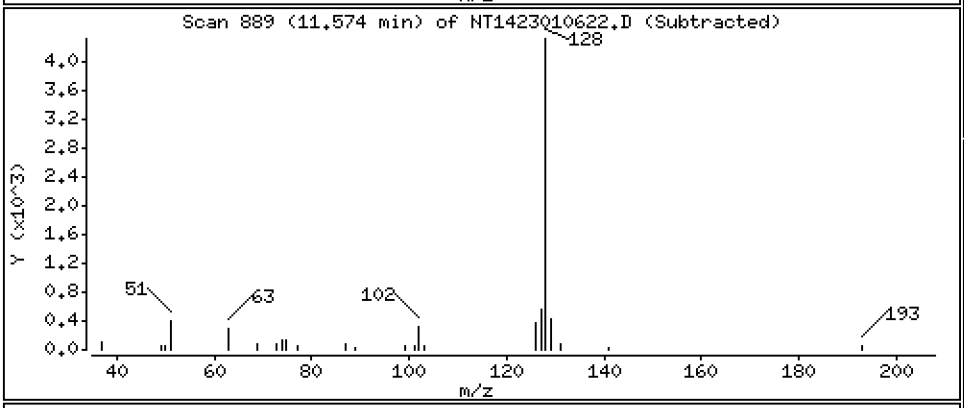
Column diameter: 0.25

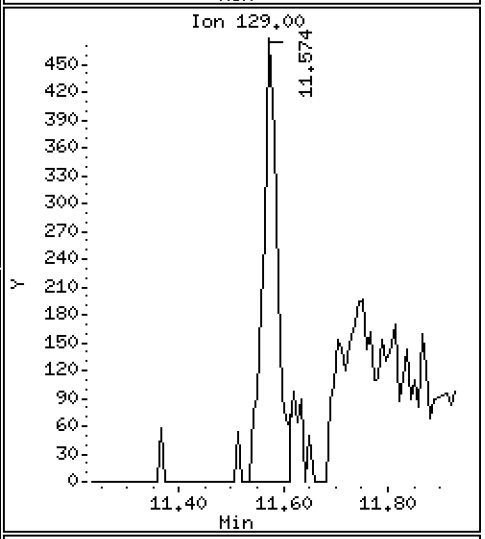
28 Naphthalene

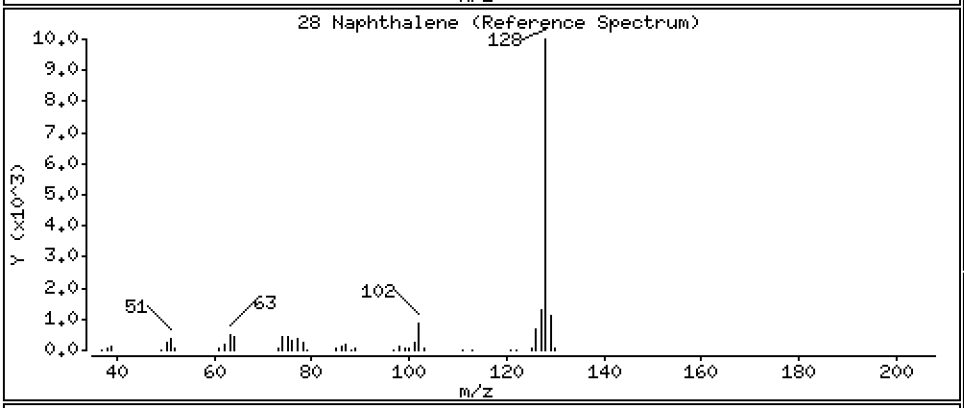
Concentration: 0.06158 ug/mL

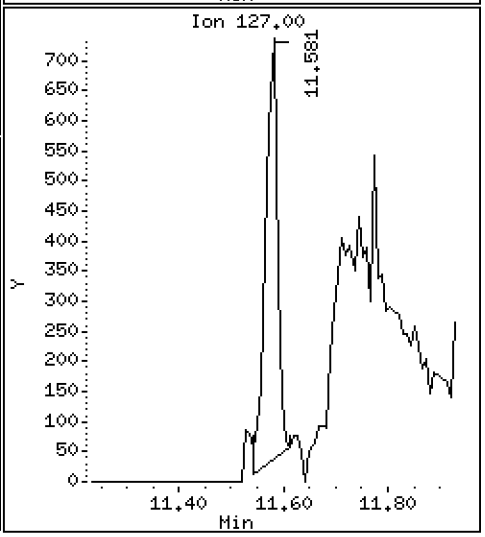


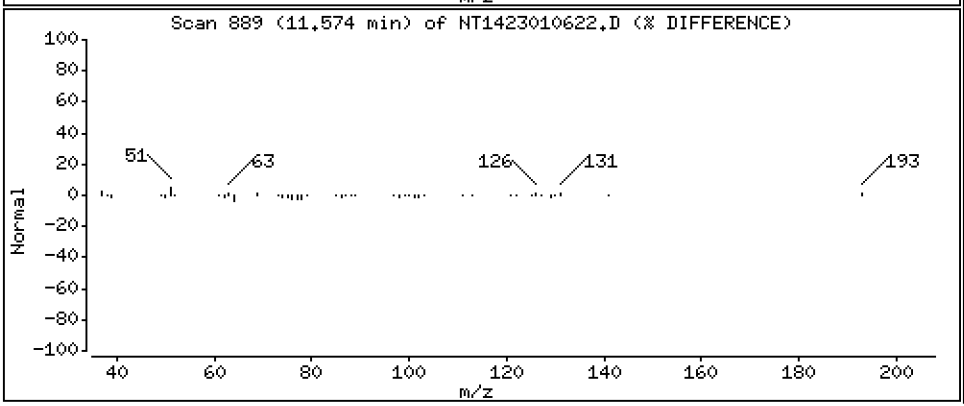












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D

Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

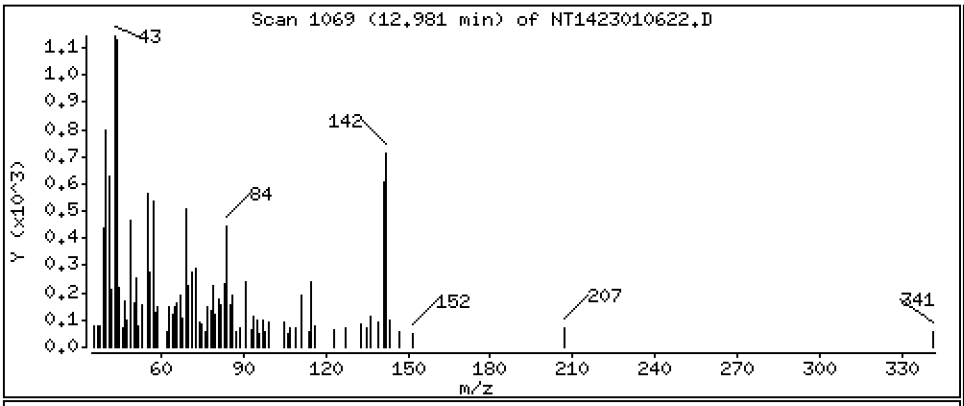
Operator: VTS

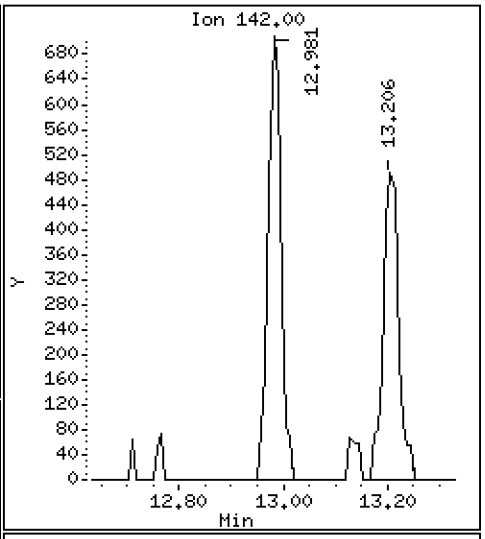
Column phase: ZB-5msi

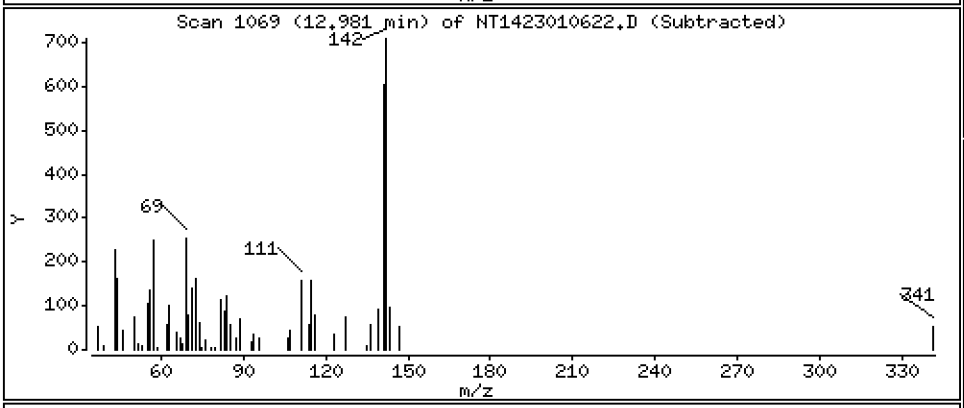
Column diameter: 0.25

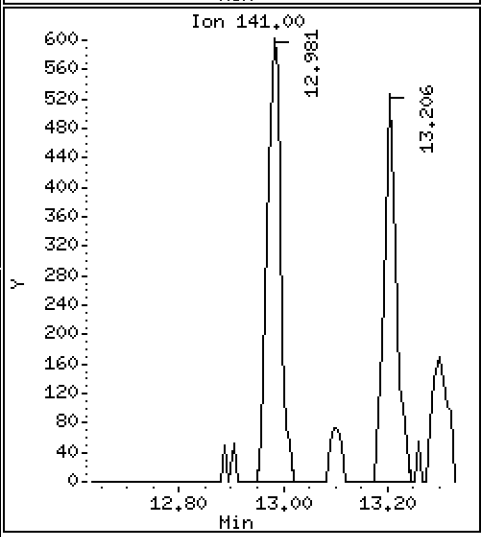
32 2-Methylnaphthalene

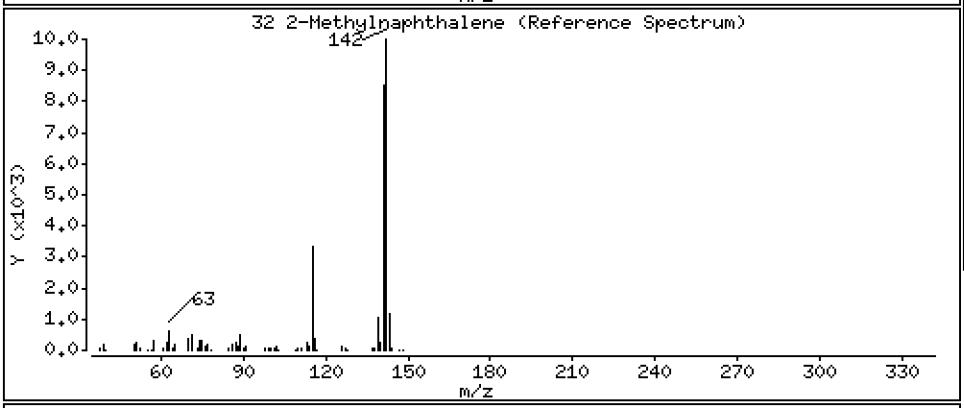
Concentration: 0.01379 ug/mL

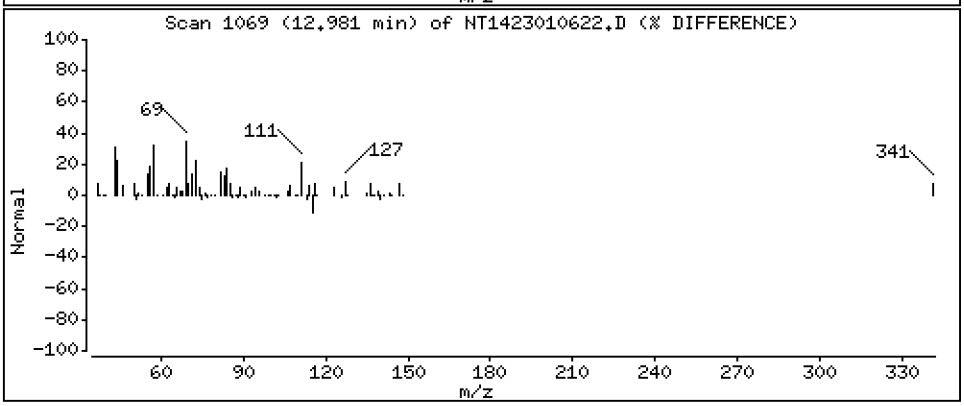












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D

Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

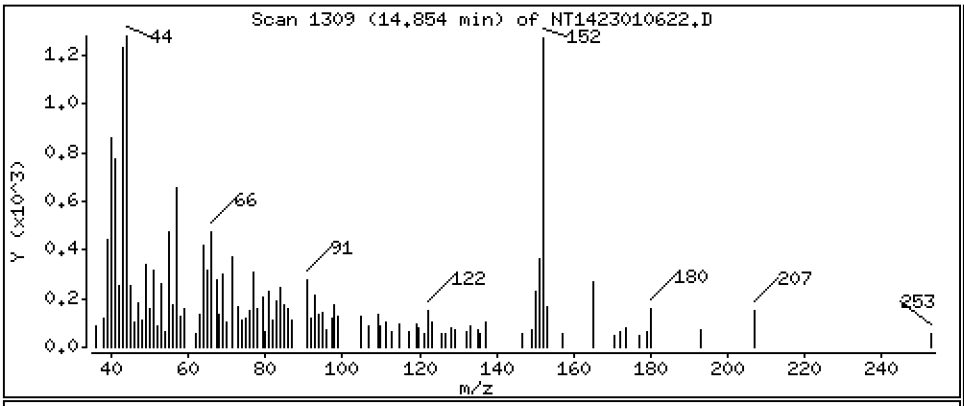
Operator: VTS

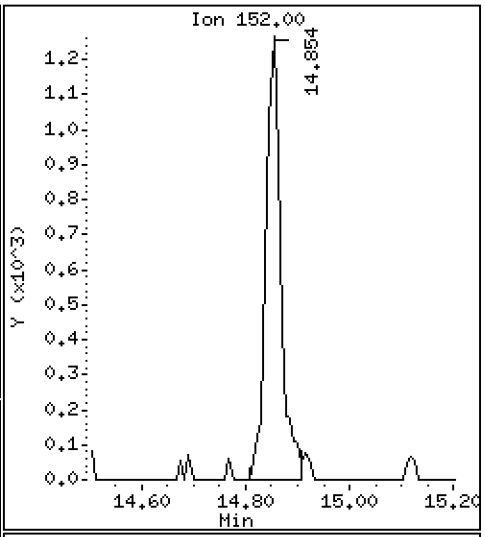
Column phase: ZB-5msi

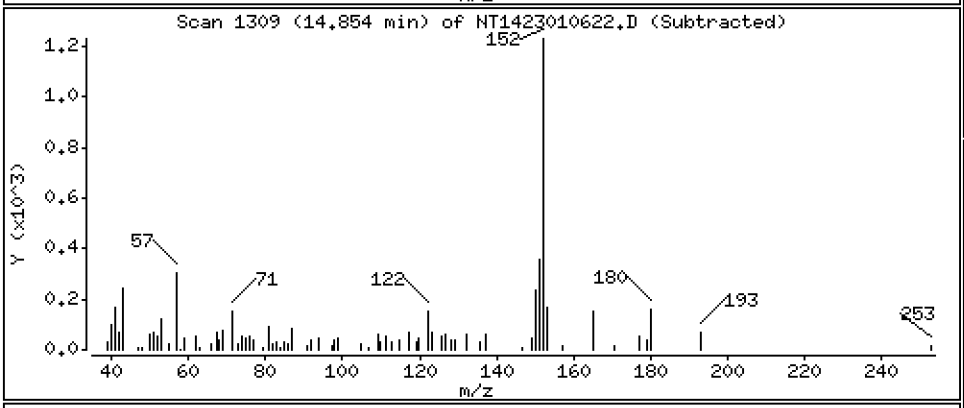
Column diameter: 0.25

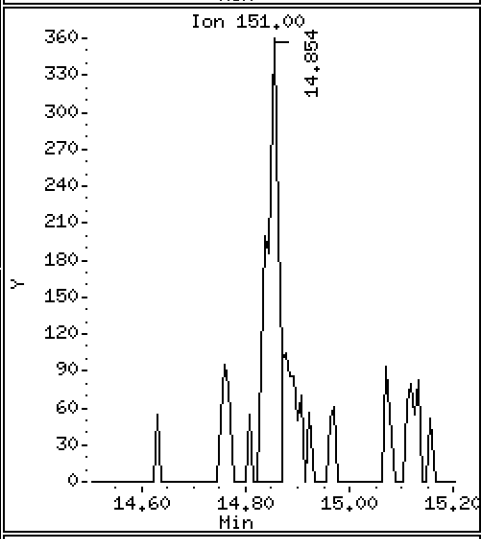
40 Acenaphthylene

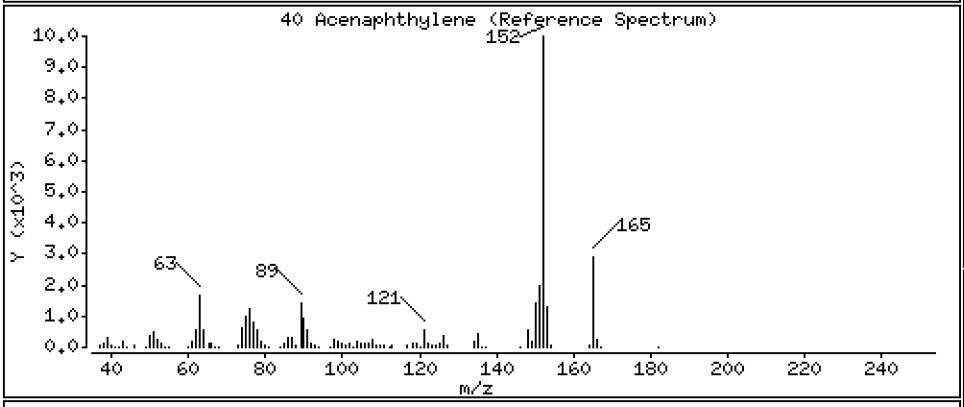
Concentration: 0.02411 ug/mL

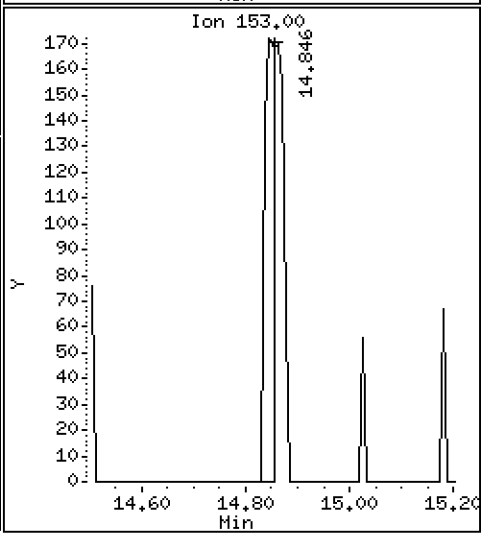


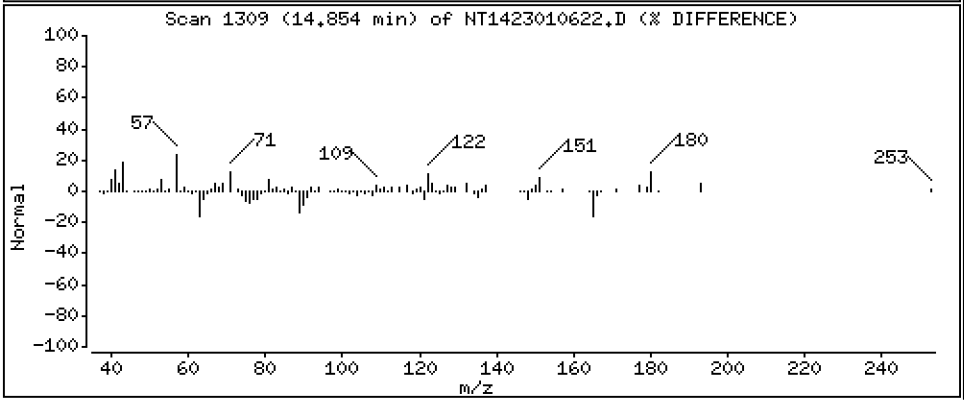












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

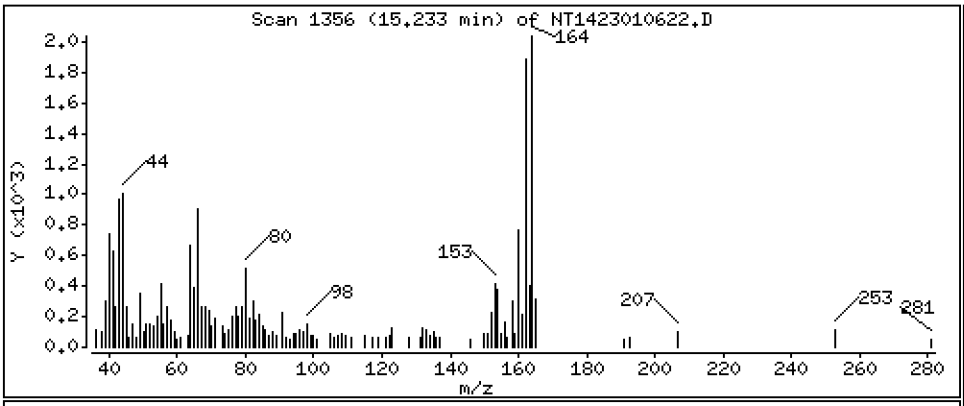
Operator: VTS

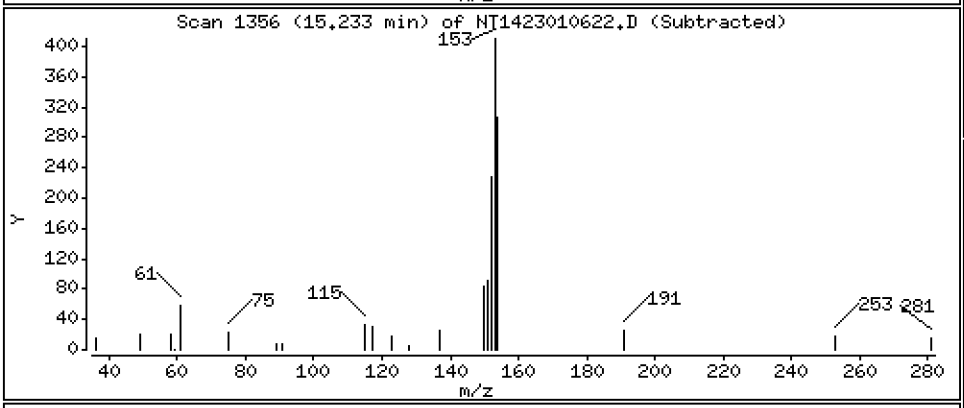
Column phase: ZB-5msi

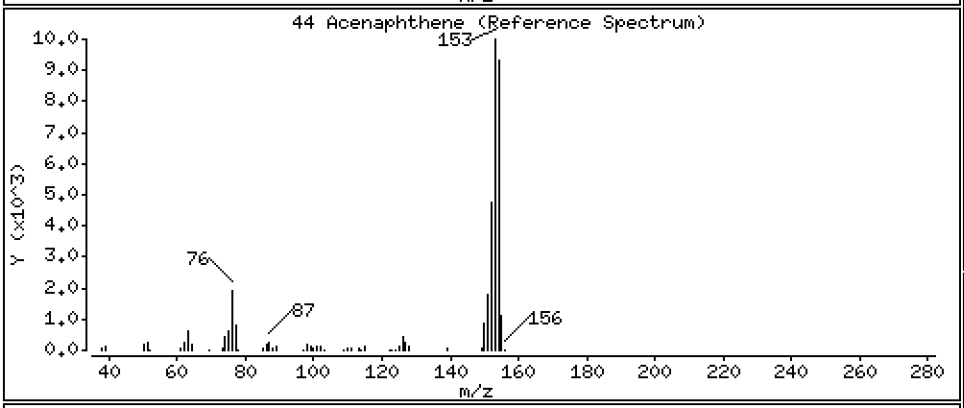
Column diameter: 0.25

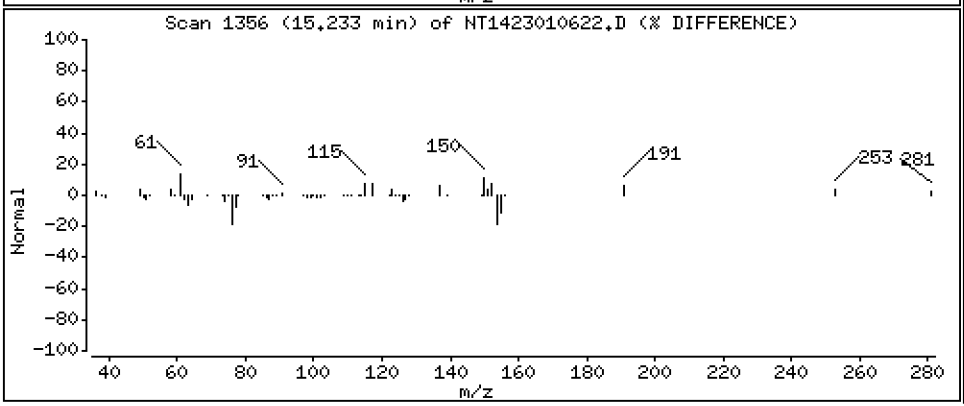
44 Acenaphthene

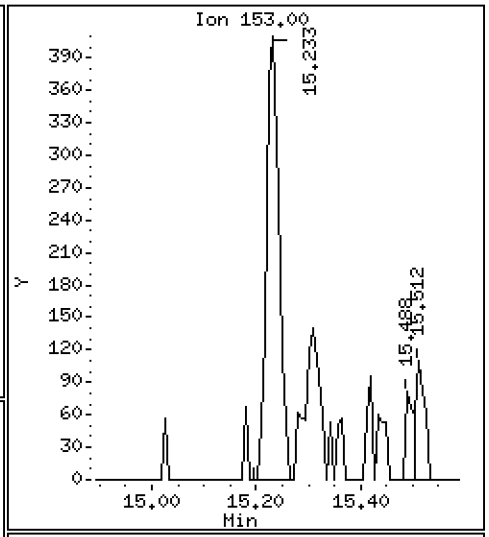
Concentration: 0.01035 ug/mL

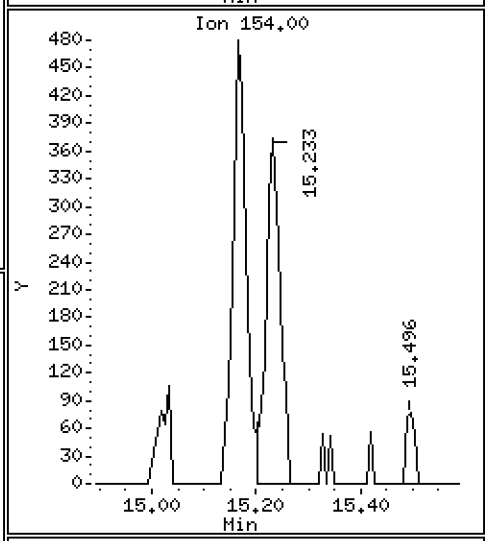


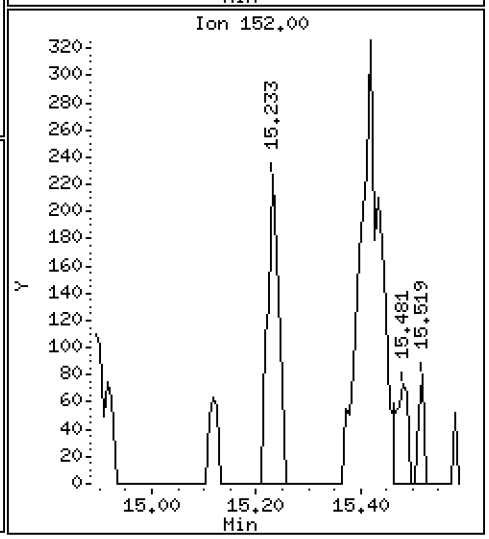












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D

Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

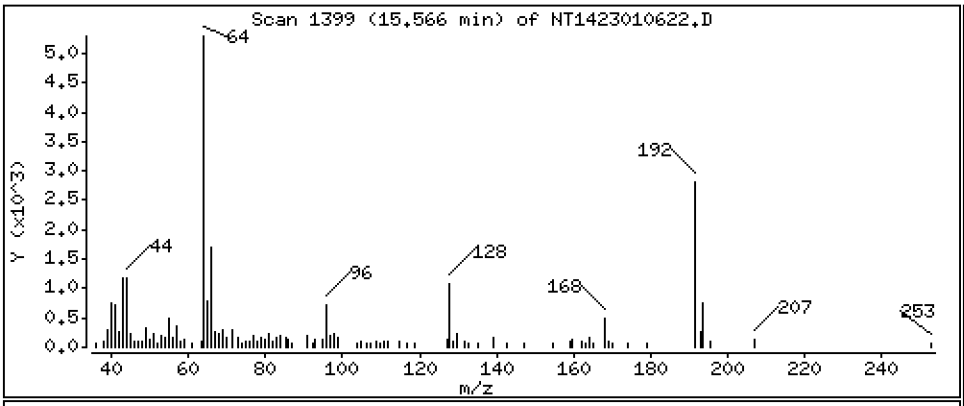
Operator: VTS

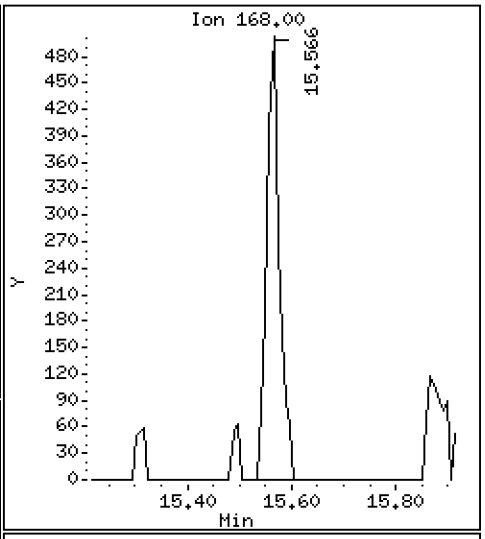
Column phase: ZB-5msi

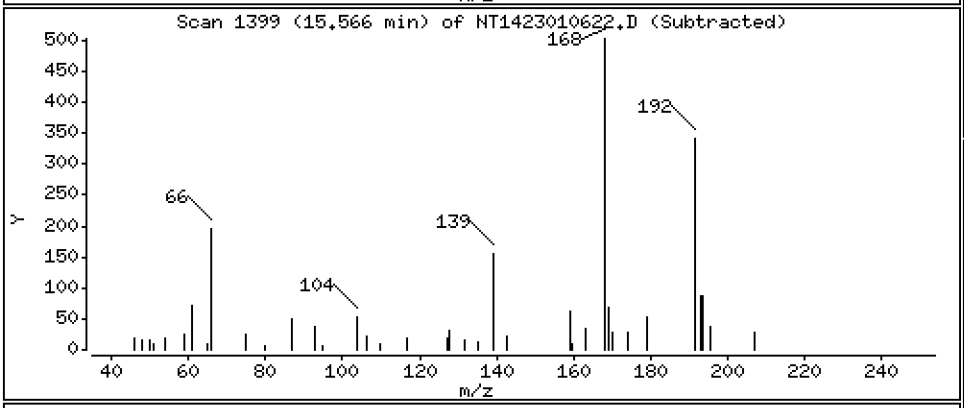
Column diameter: 0.25

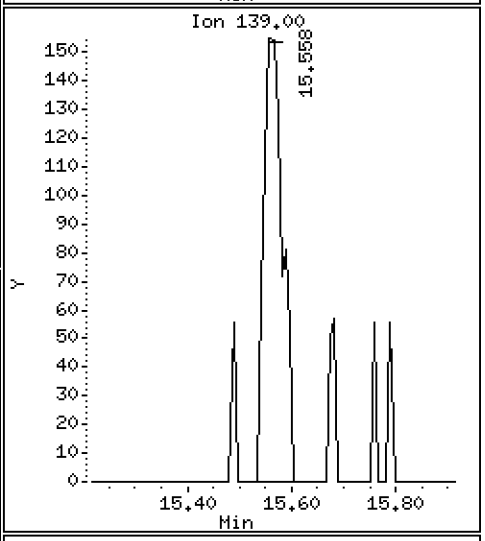
46 Dibenzofuran

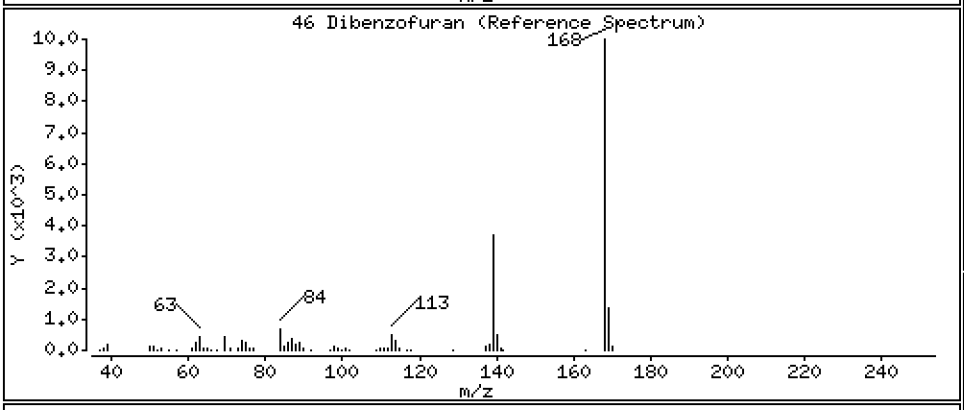
Concentration: 0.008639 ug/mL

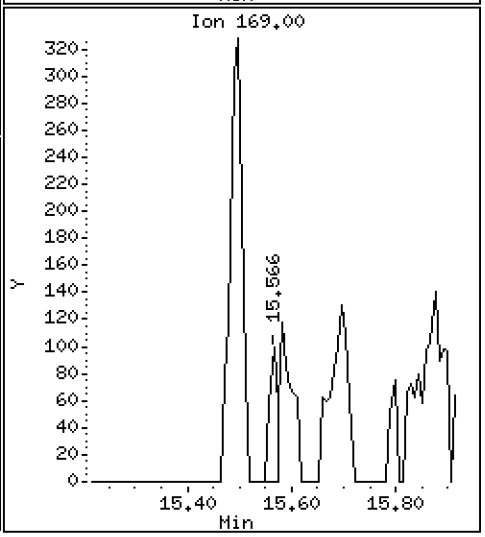


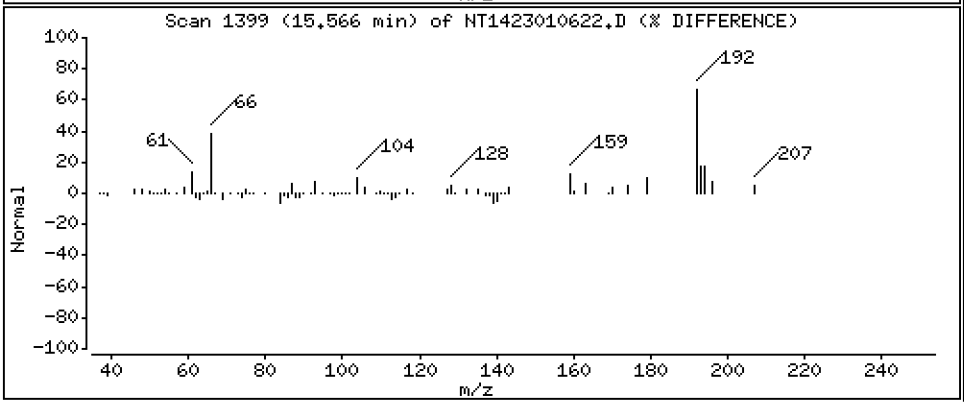












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

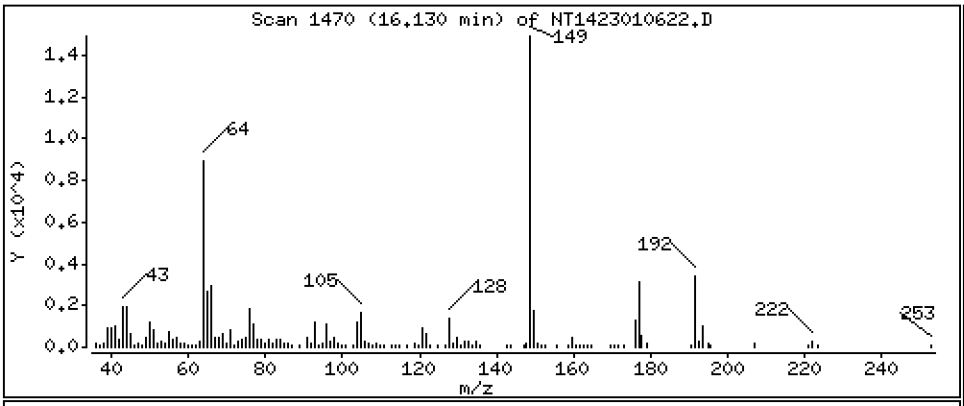
Operator: VTS

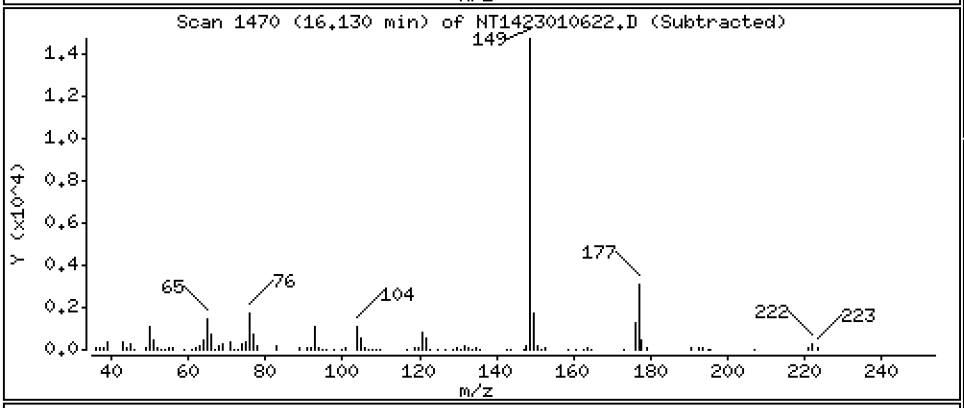
Column phase: ZB-5msi

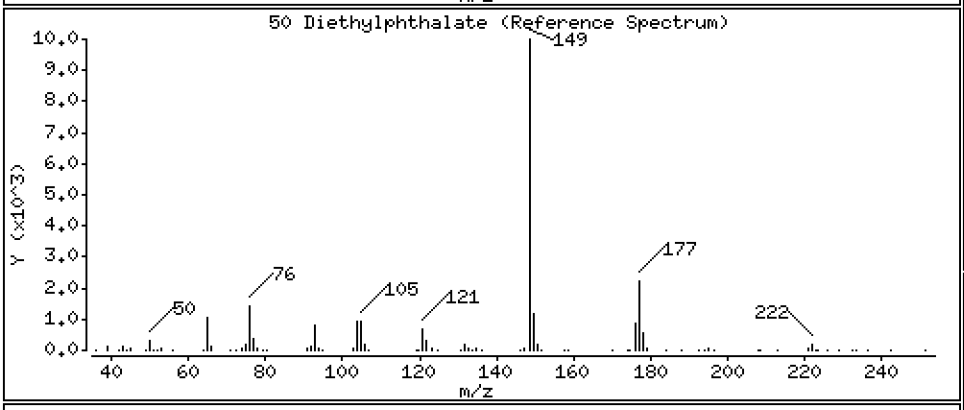
Column diameter: 0.25

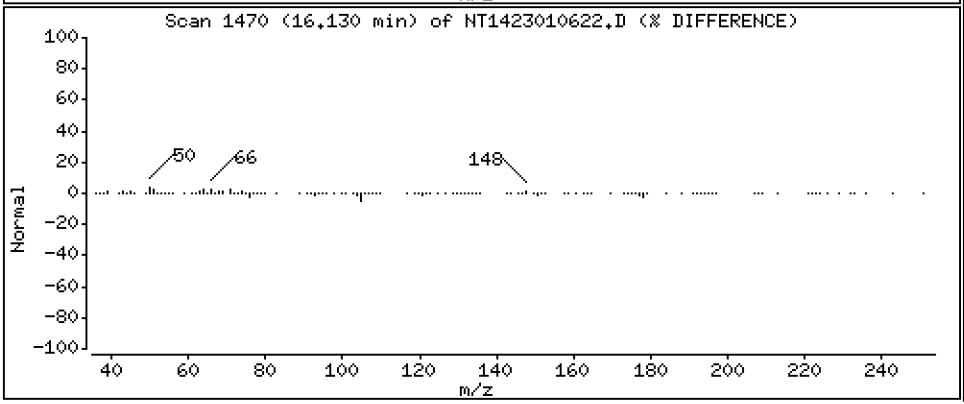
50 Diethylphthalate

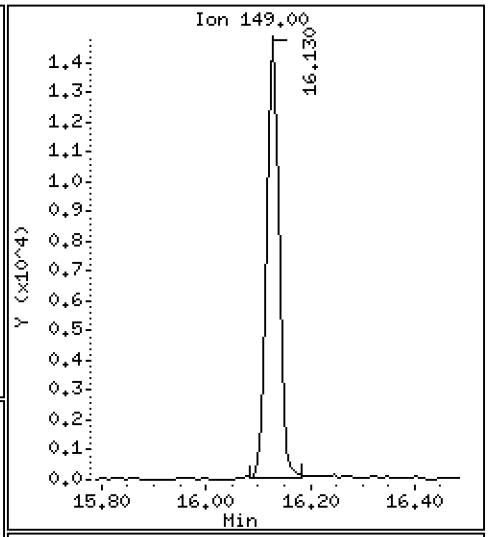
Concentration: 0.2610 ug/mL

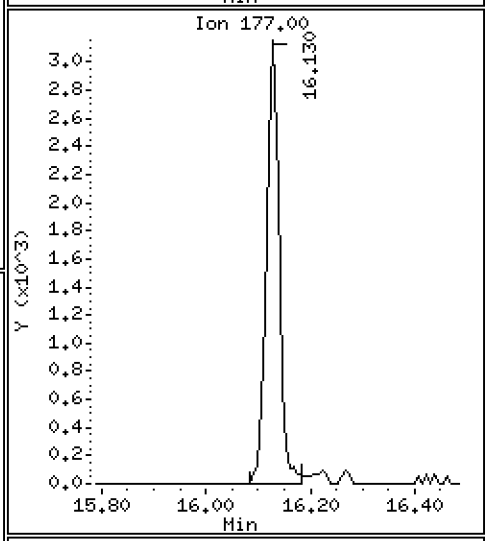


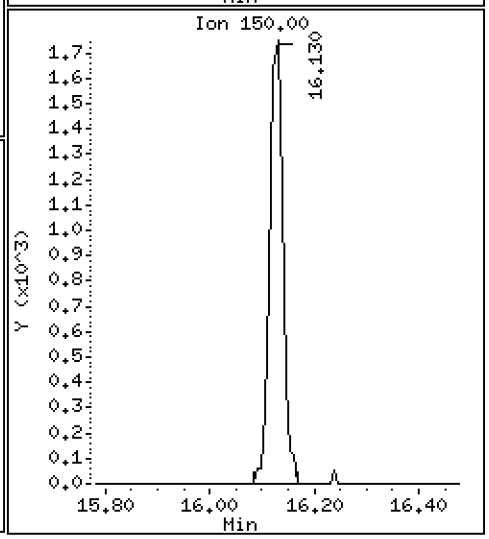












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D

Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

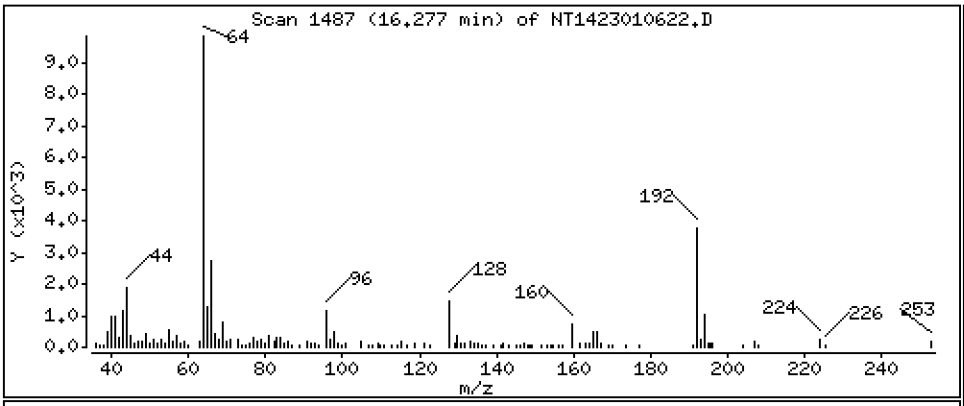
Operator: VTS

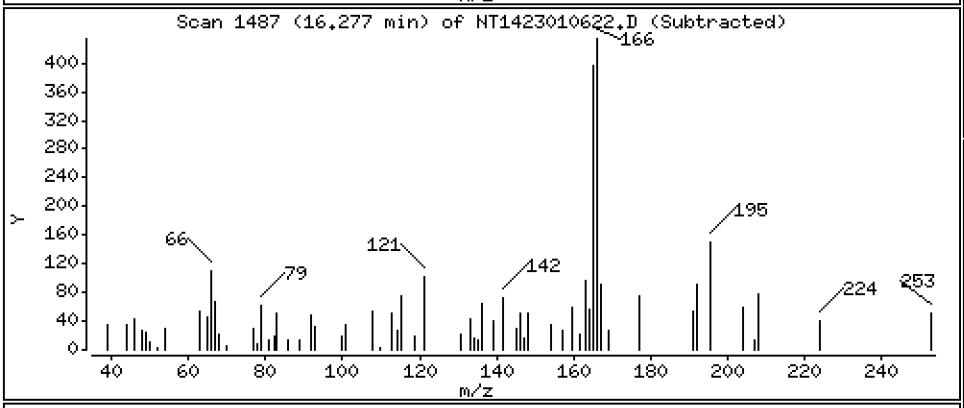
Column phase: ZB-5msi

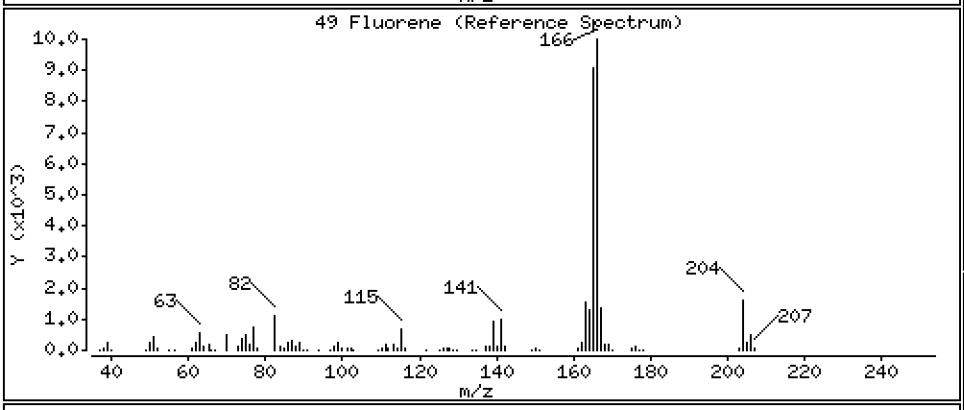
Column diameter: 0.25

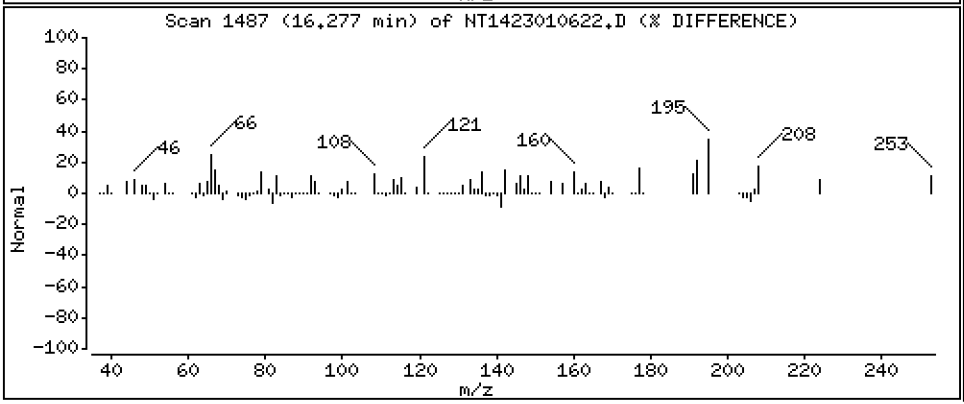
49 Fluorene

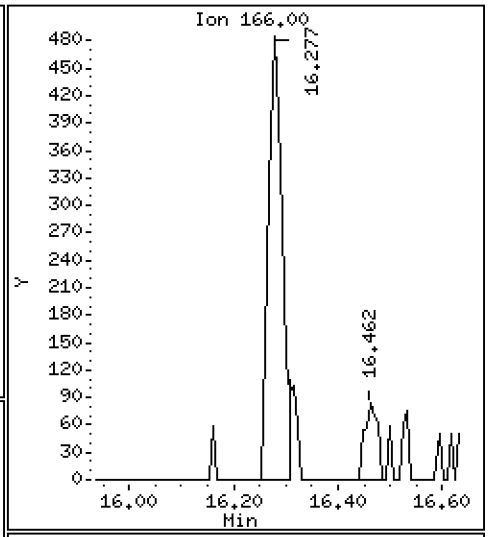
Concentration: 0.008633 ug/mL

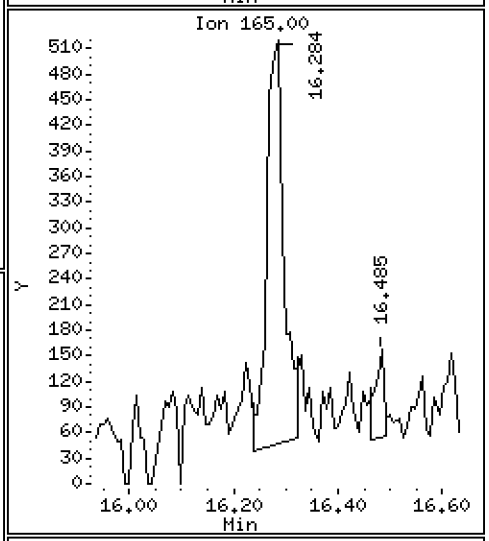


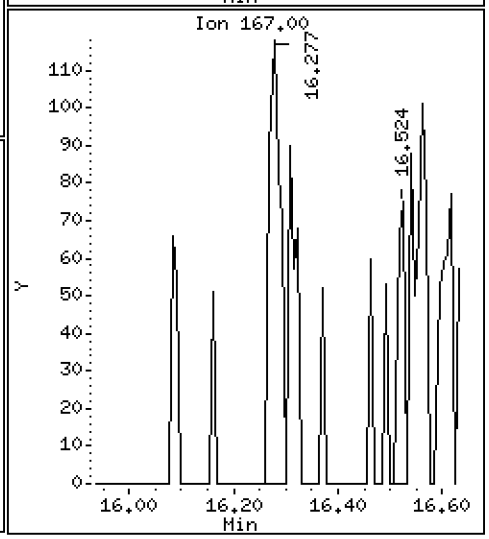












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

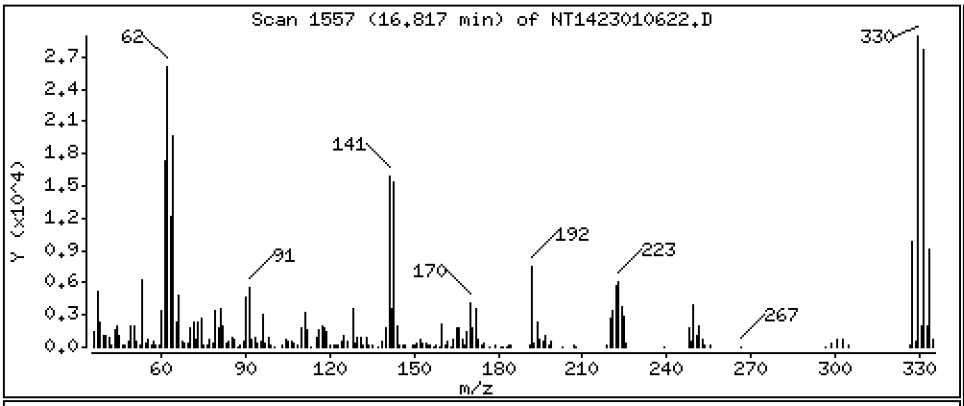
Operator: VTS

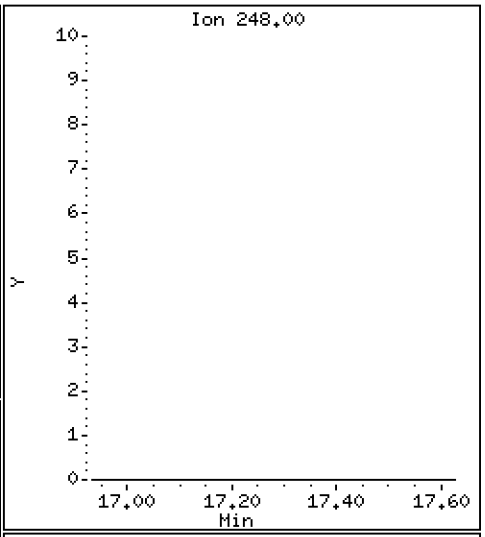
Column phase: ZB-5msi

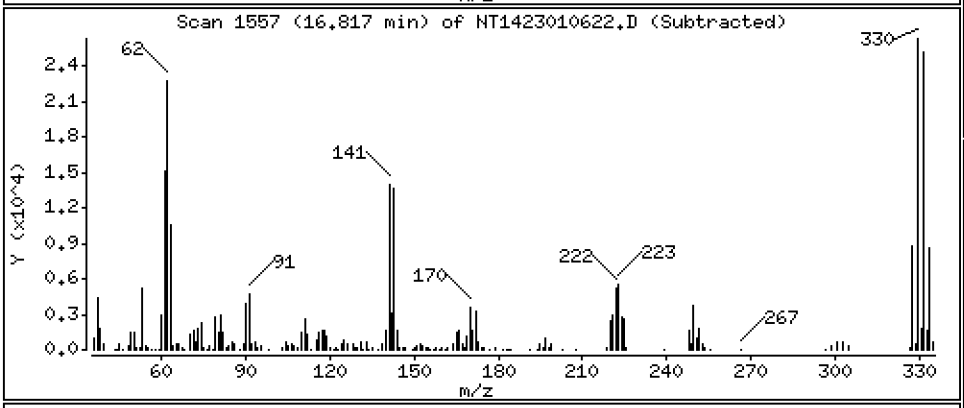
Column diameter: 0.25

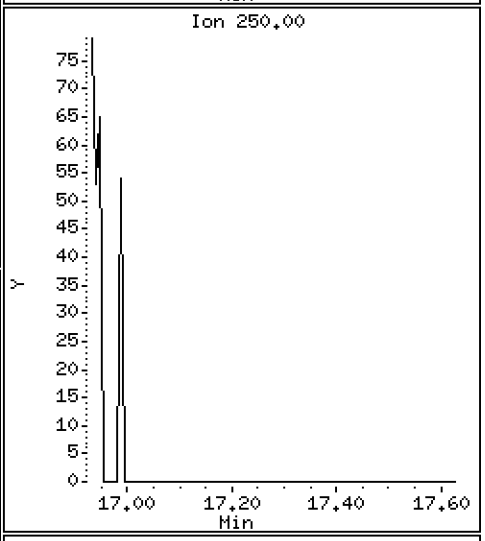
56 4-Bromophenyl-phenylether

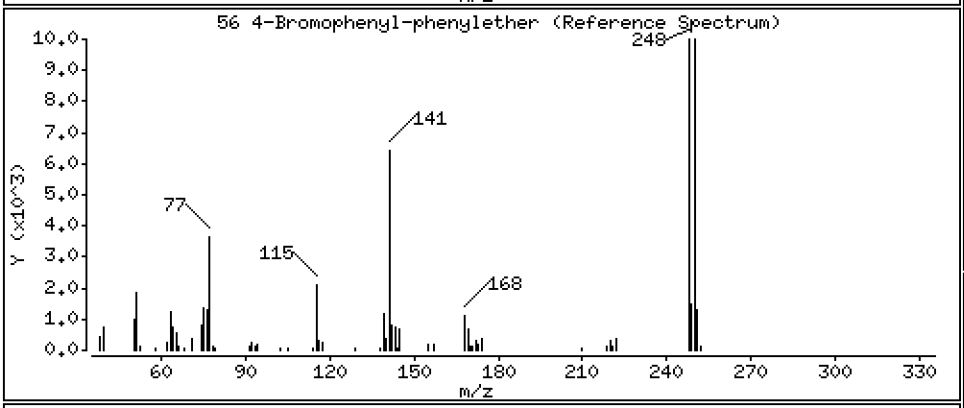
Concentration: 0.1308 ug/mL

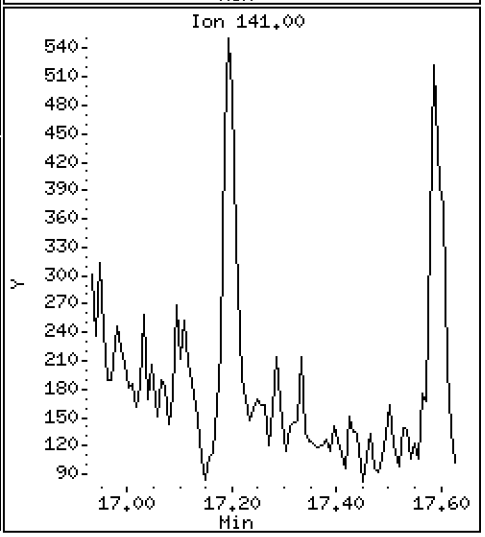


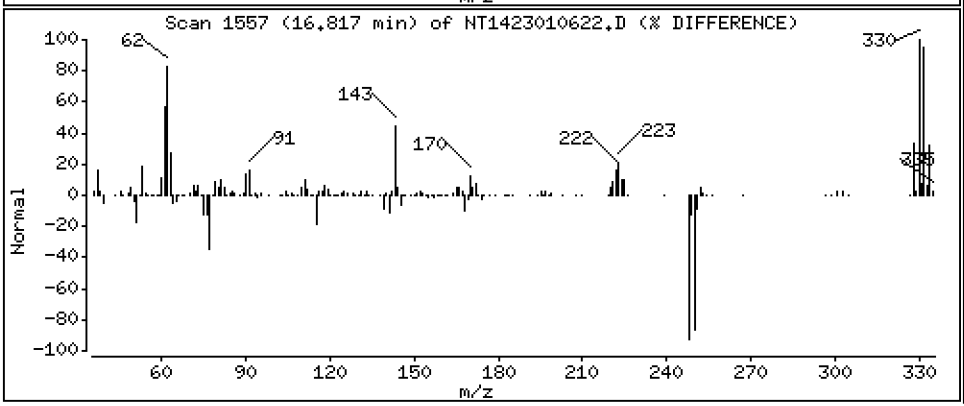












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

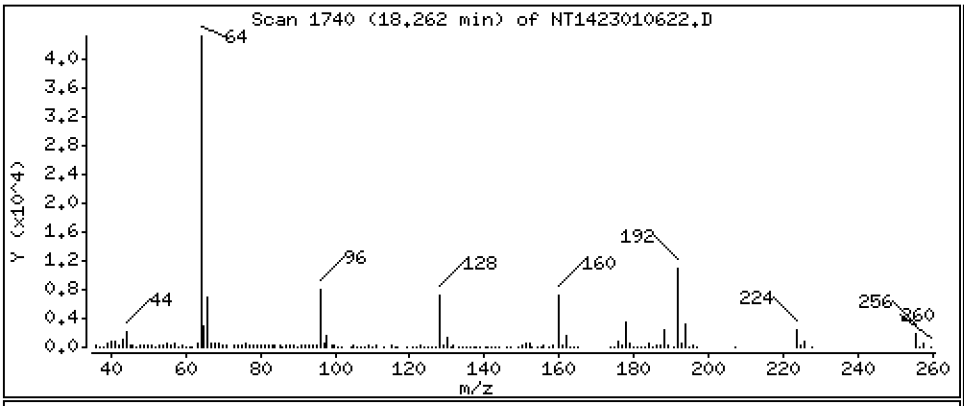
Operator: VTS

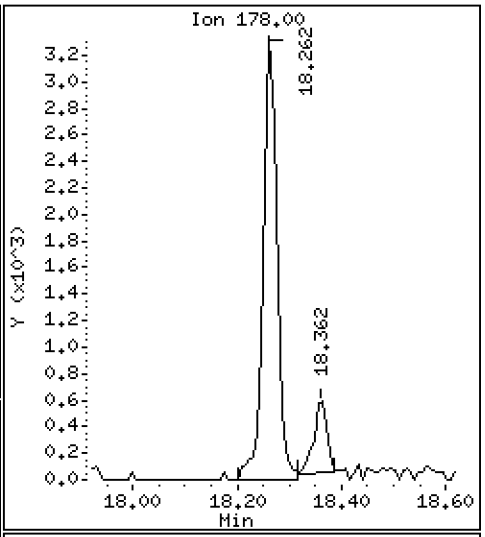
Column phase: ZB-5msi

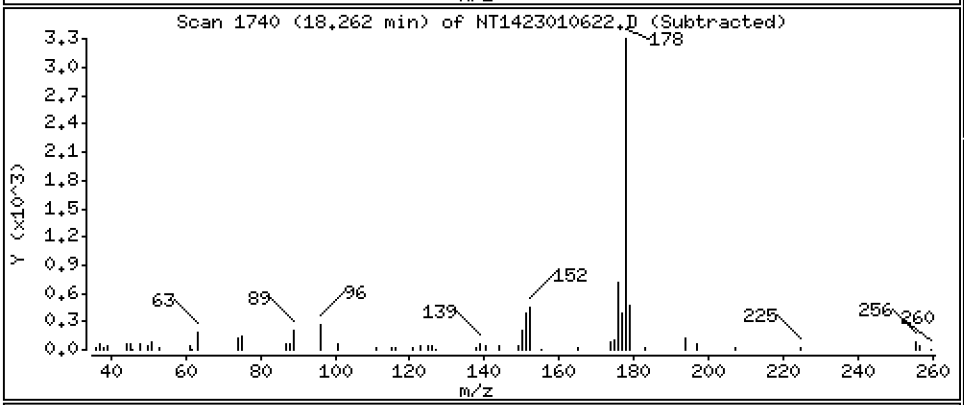
Column diameter: 0.25

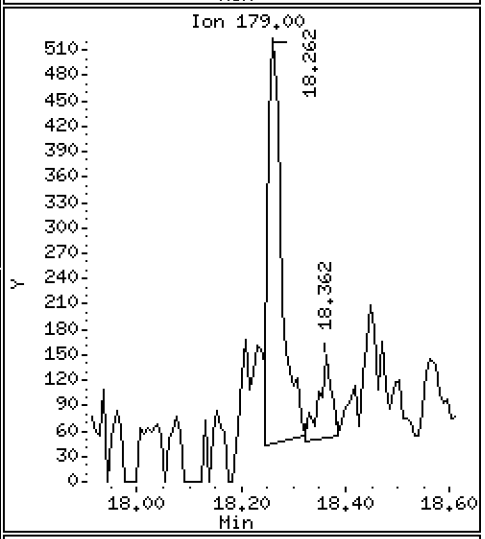
60 Phenanthrene

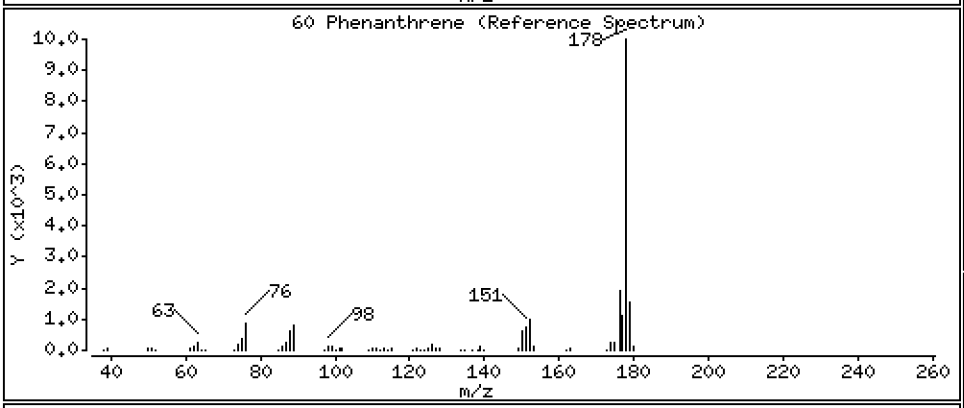
Concentration: 0.05959 ug/mL

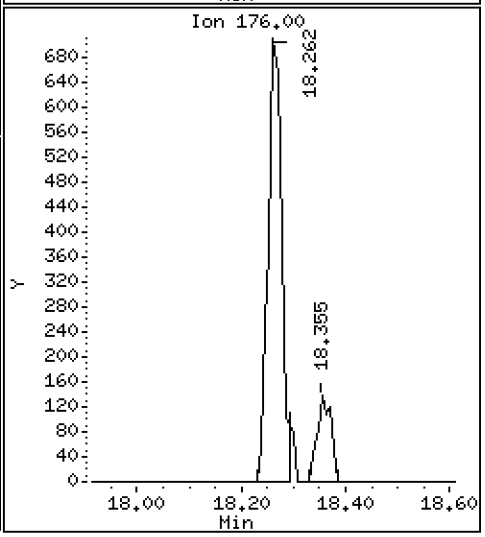


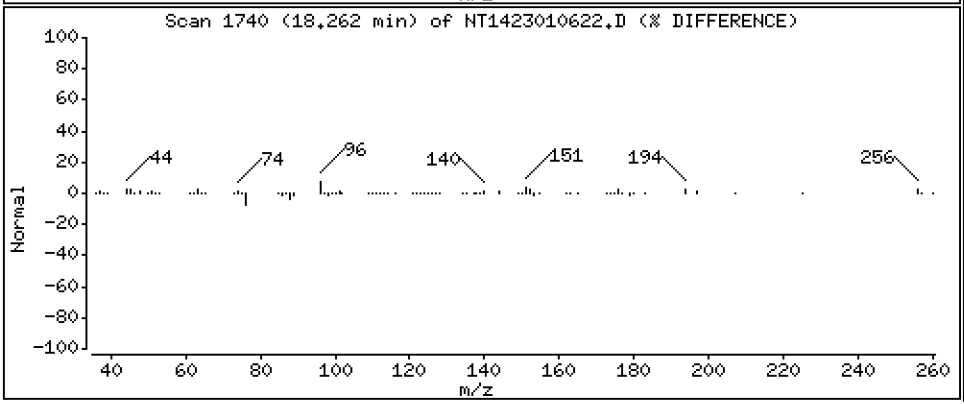












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

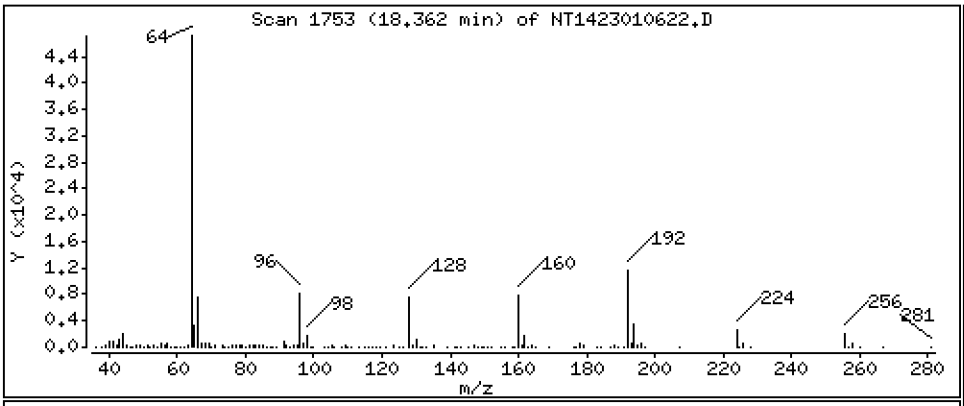
Operator: VTS

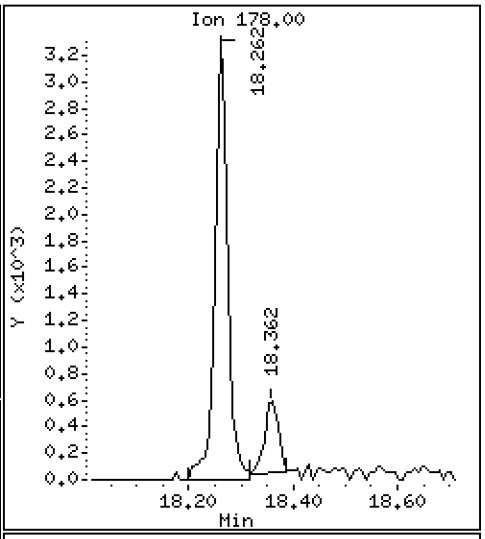
Column phase: ZB-5msi

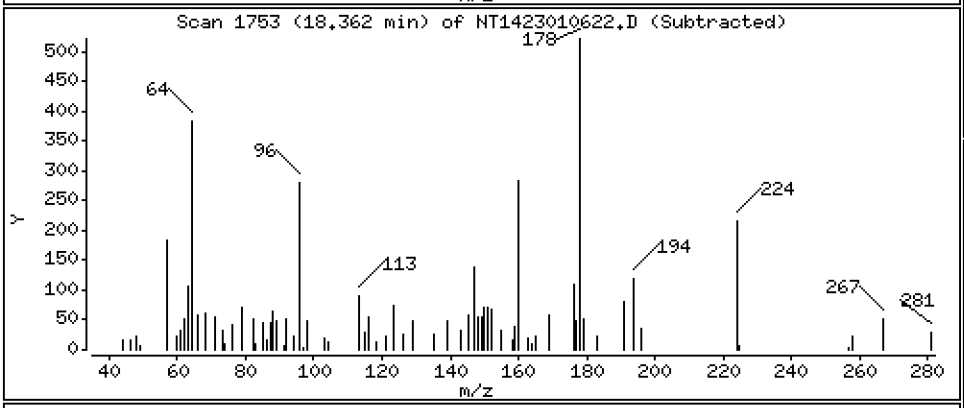
Column diameter: 0.25

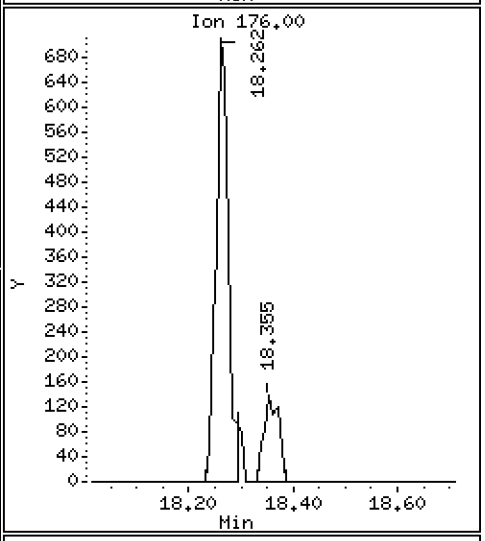
61 Anthracene

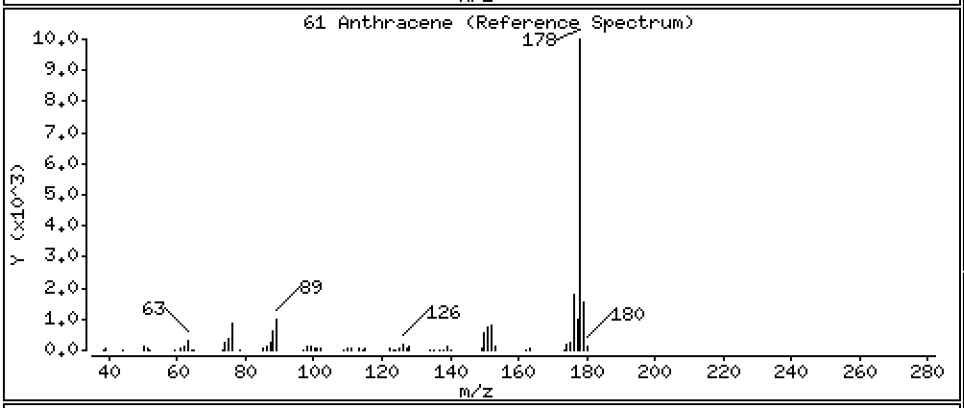
Concentration: 0.01018 ug/mL

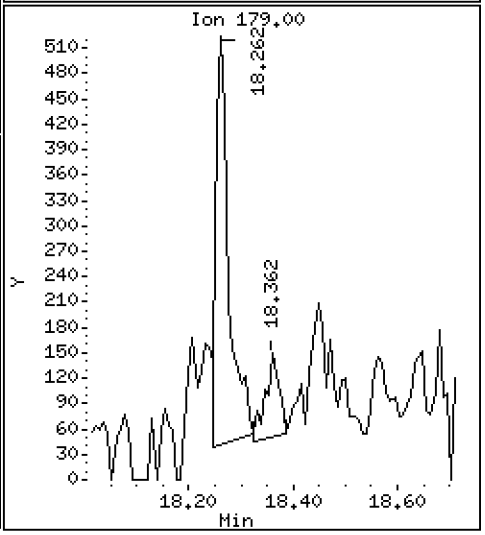


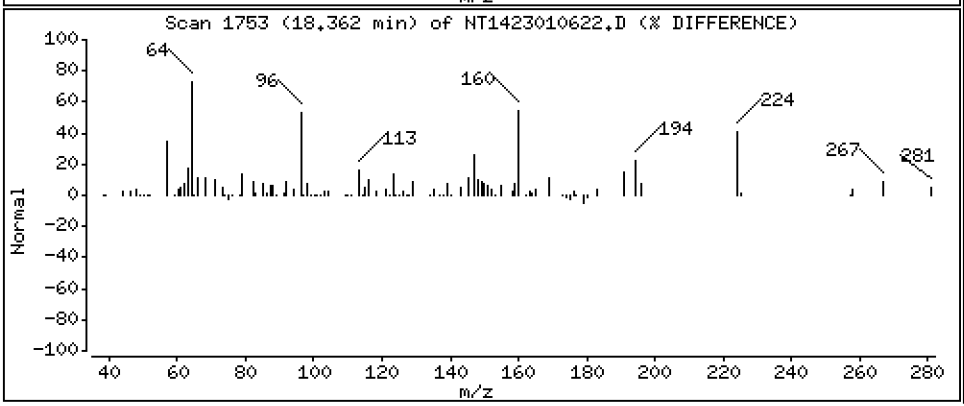












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

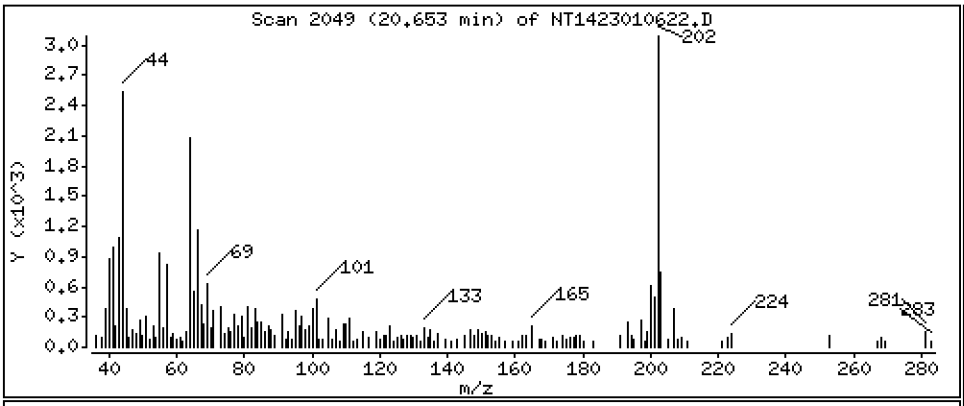
Operator: VTS

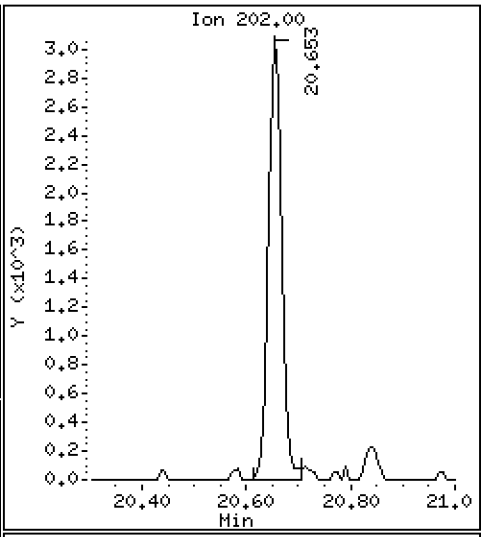
Column phase: ZB-5msi

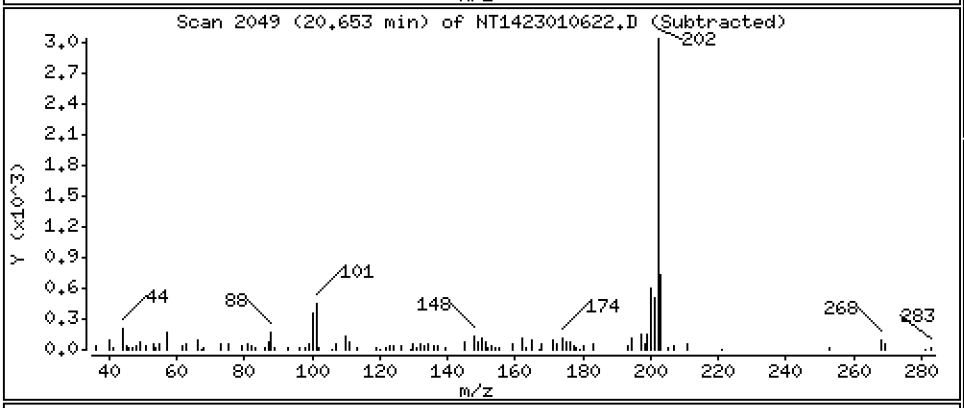
Column diameter: 0.25

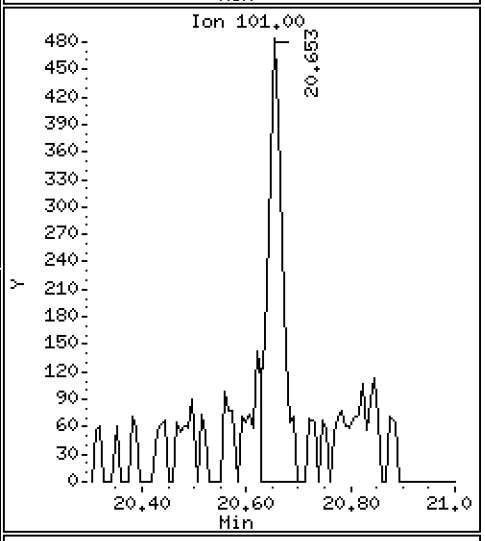
64 Fluoranthene

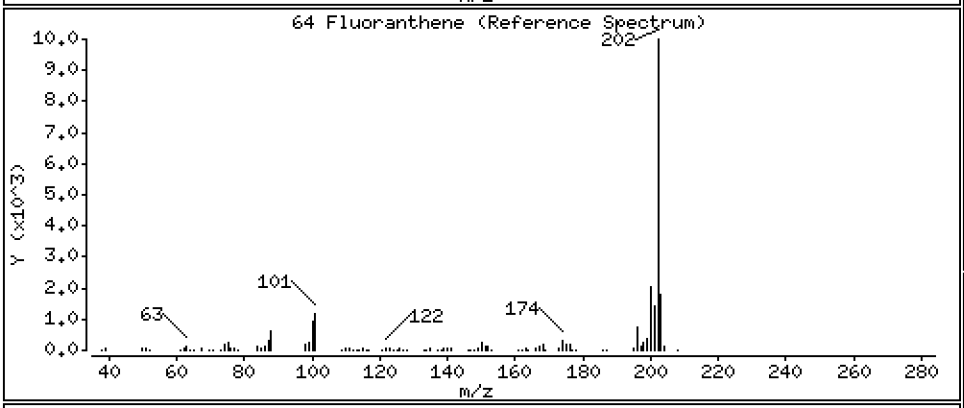
Concentration: 0.06144 ug/mL

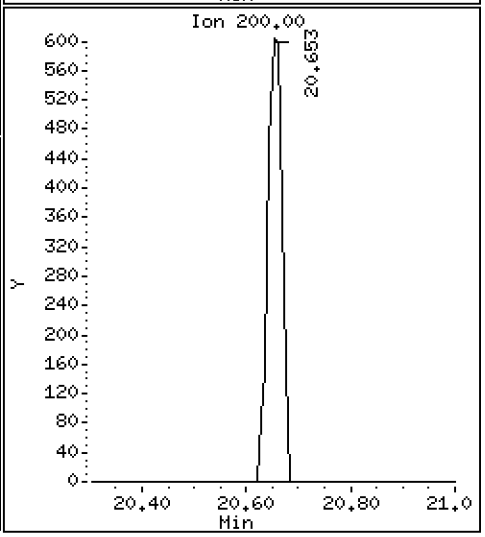


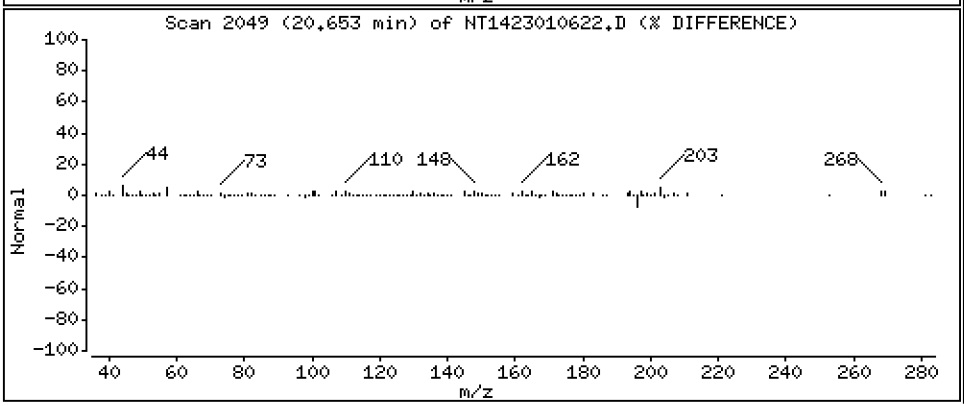












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

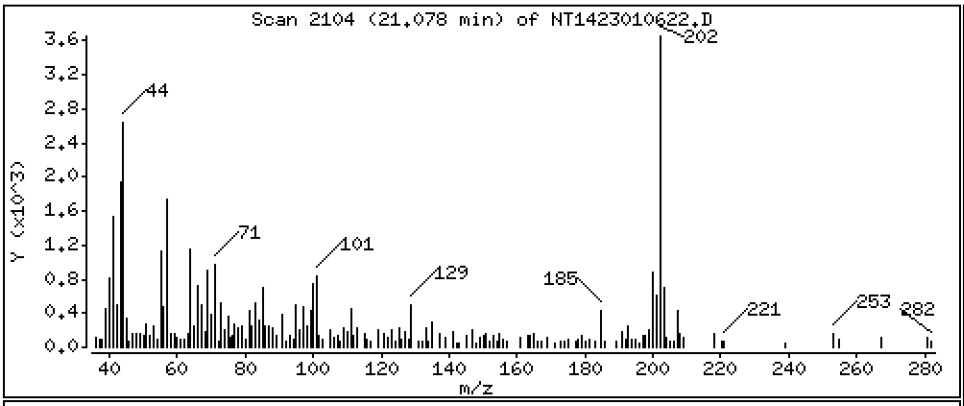
Operator: VTS

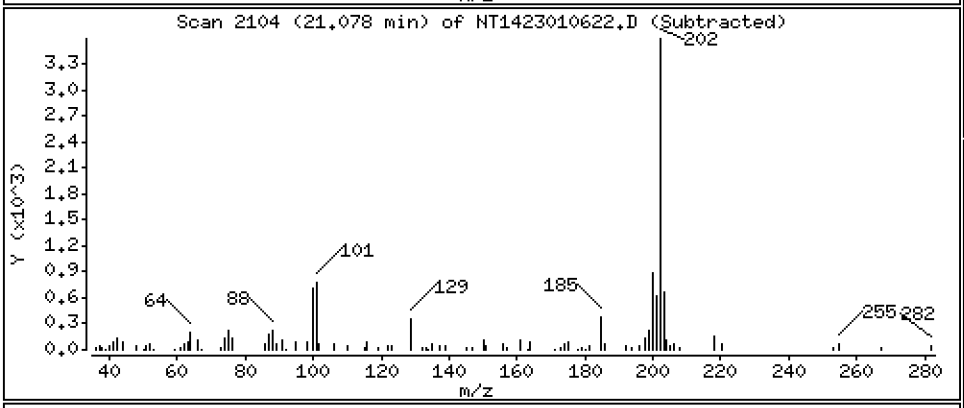
Column phase: ZB-5msi

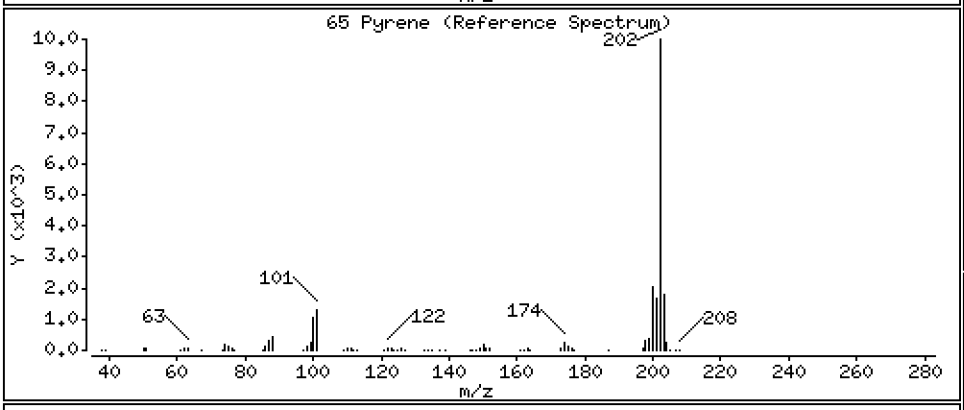
Column diameter: 0.25

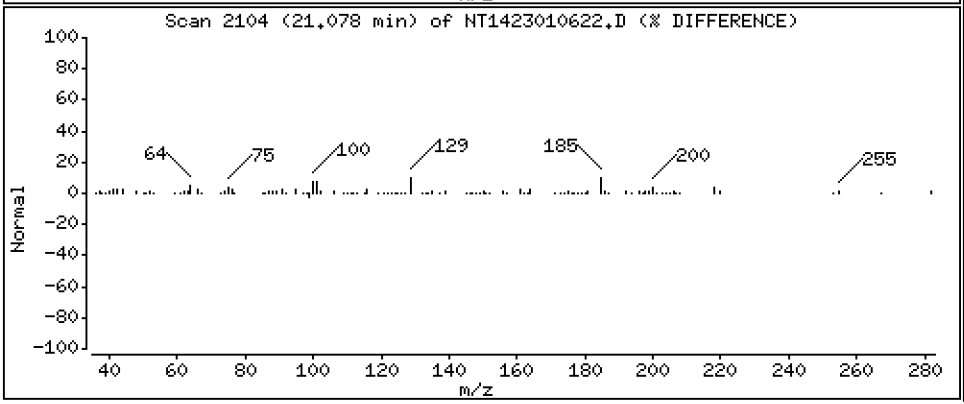
65 Pyrene

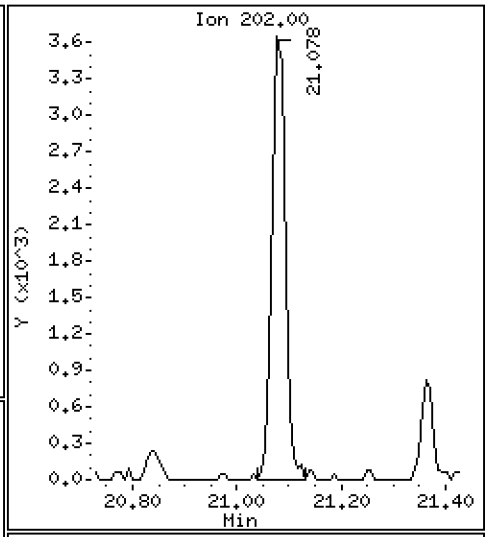
Concentration: 0.07018 ug/mL

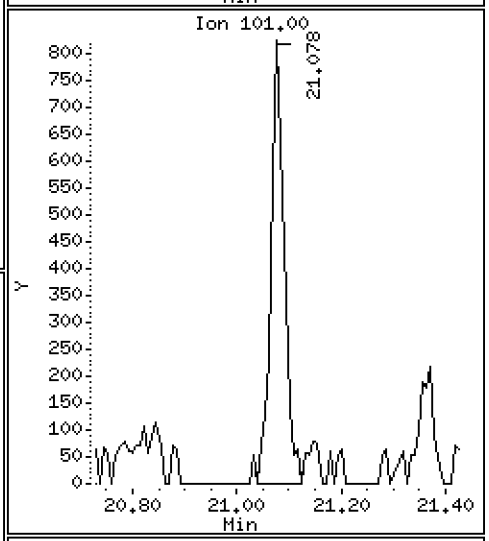


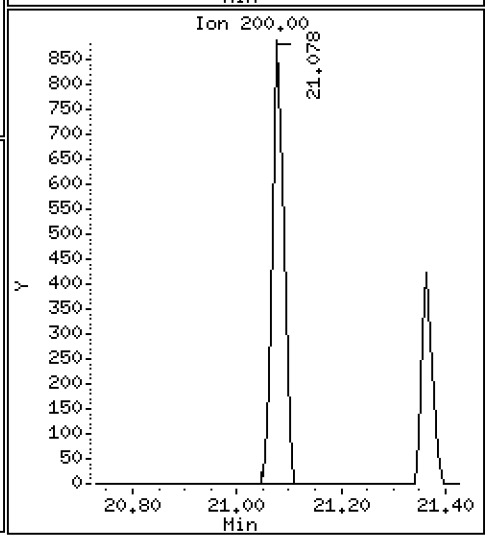












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

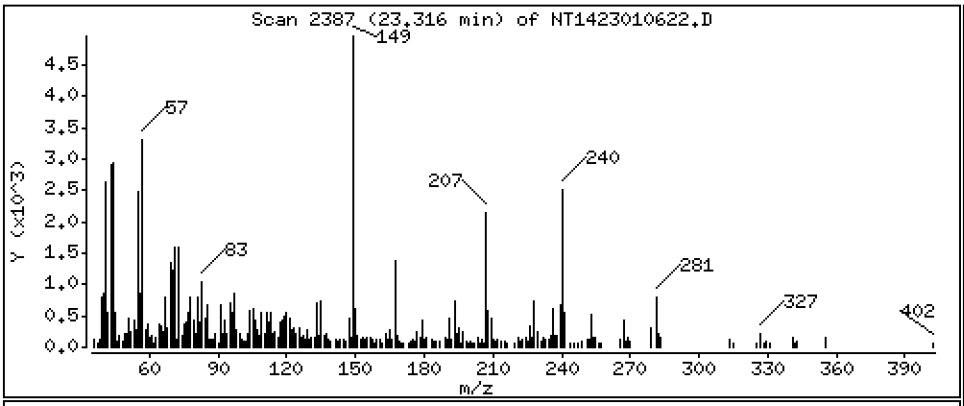
Operator: VTS

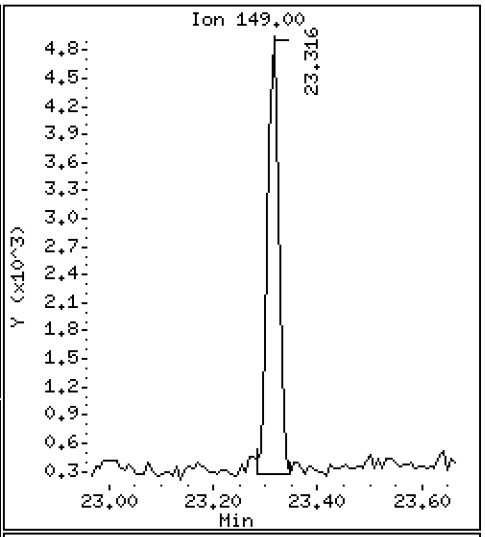
Column phase: ZB-5msi

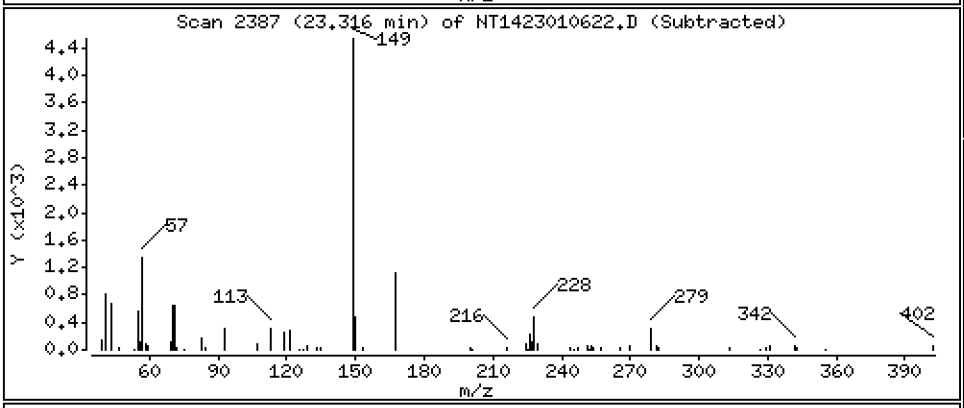
Column diameter: 0.25

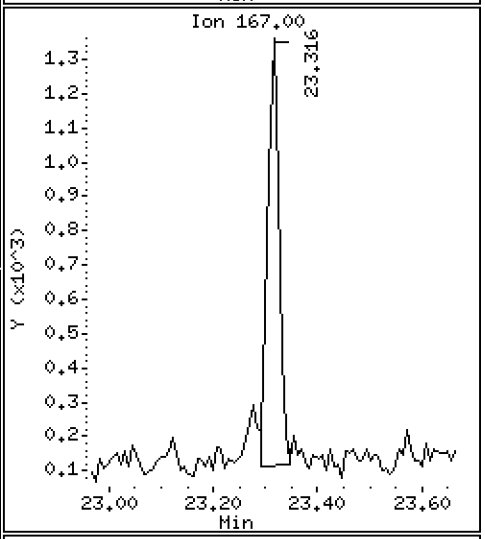
72 bis(2-Ethylhexyl)phthalate

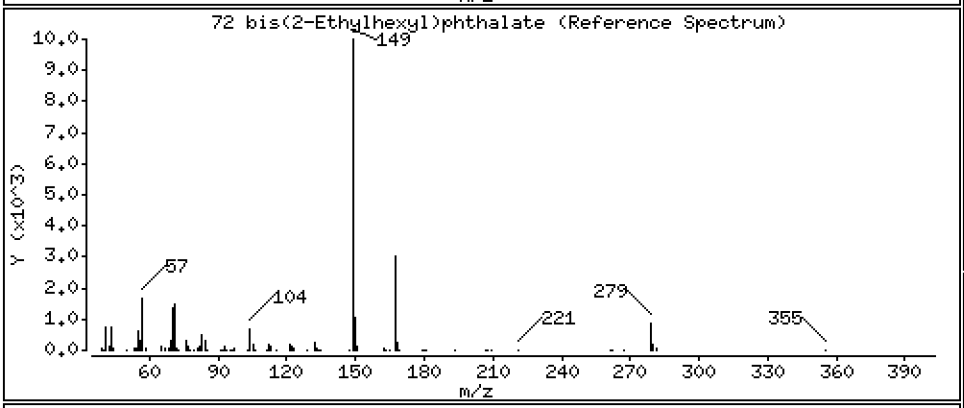
Concentration: 0.1205 ug/mL

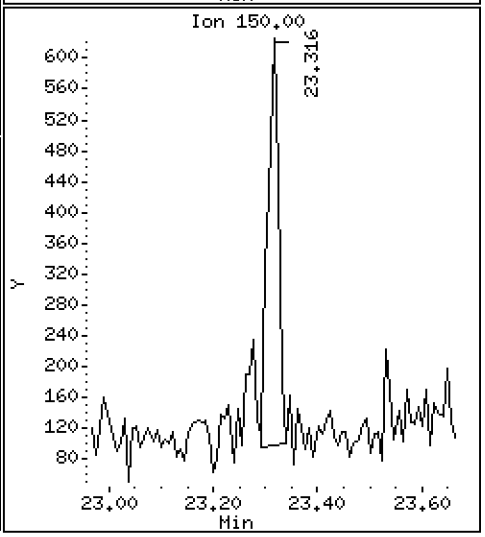


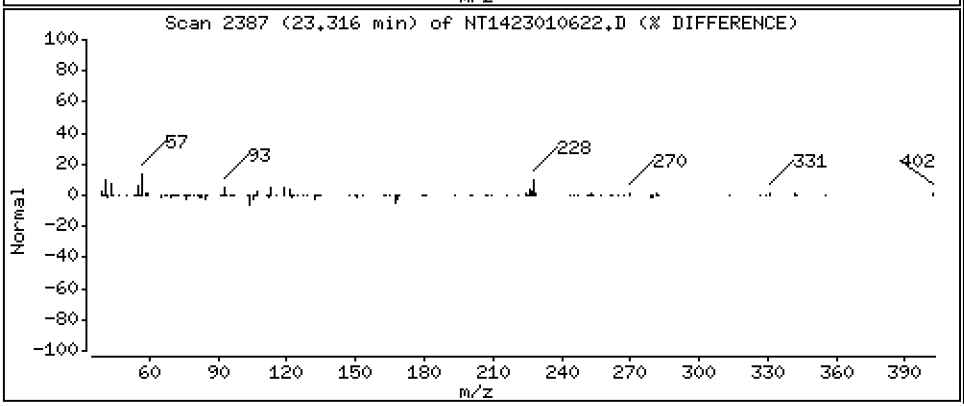












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Date : 07-JAN-2023 00:15

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-46

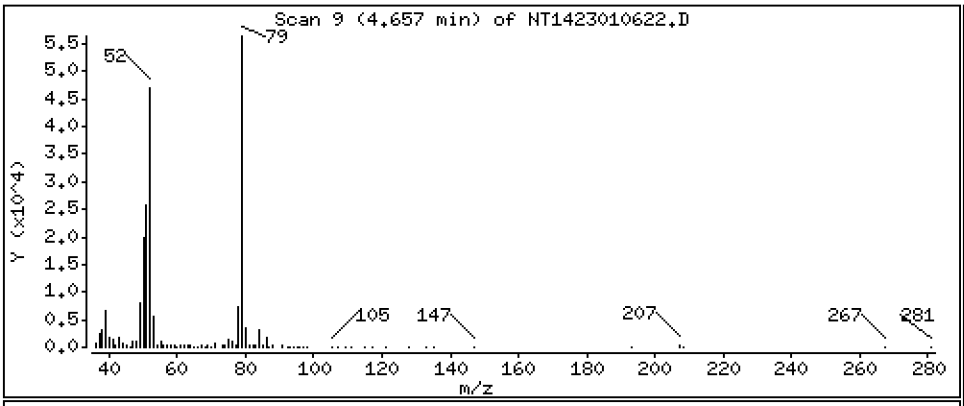
Operator: VTS

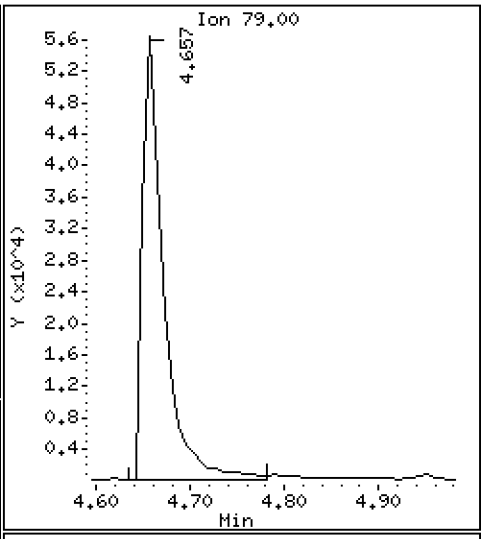
Column phase: ZB-5msi

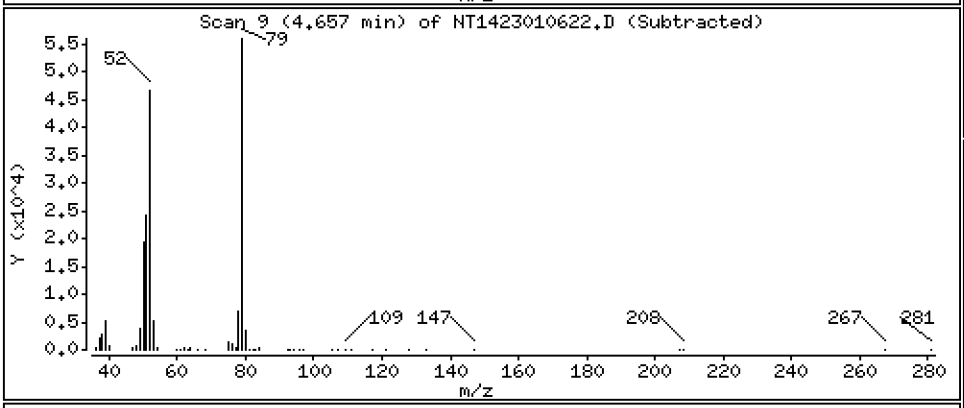
Column diameter: 0.25

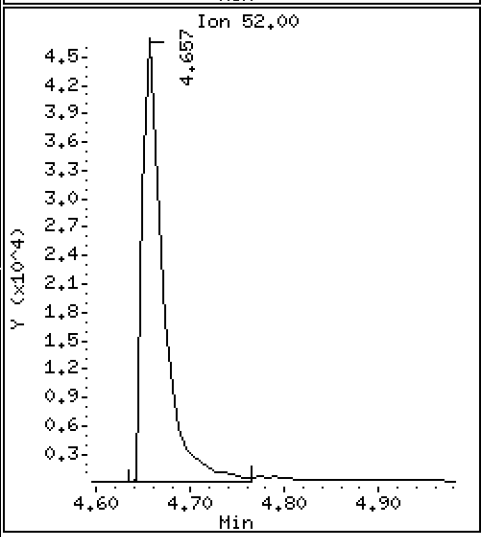
103 Pyridine

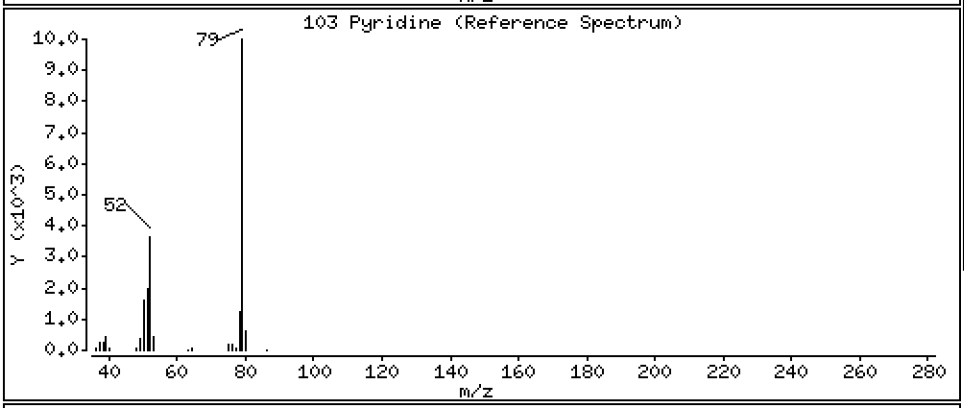
Concentration: 0.9751 ug/mL

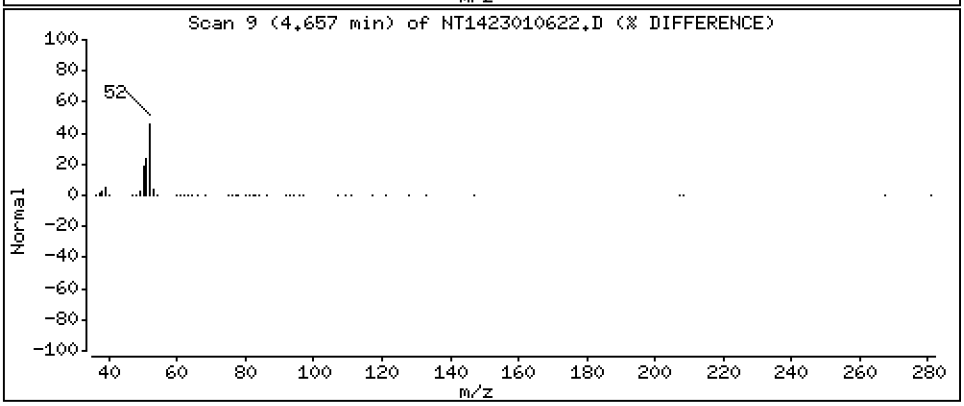












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010622.D
Lab Smp Id: 22L0246-46
Inj Date : 07-JAN-2023 00:15 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-46
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 19
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	201847	4.98082	4.981
$	2 Phenol-d5	99	8.410	8.403	(0.931)	267202	5.33536	5.335
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	236138	5.61424	5.614
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	126493	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	107486	3.73898	3.739
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	184369	4.64914	4.649
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.535	11.534	(1.000)	469620	4.00000	
	28 Naphthalene	128	11.573	11.581	(1.003)	7117	0.06158	0.06158
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	1169	0.01379	0.01379
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	331160	4.26664	4.267
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	14.854	14.853	(0.979)	2427	0.02411	0.02411
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	230848	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	15.233	15.240	(1.004)	646	0.01035	0.01035
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.565	15.565	(1.026)	809	0.00864	0.008639
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.129	16.137	(1.063)	23096	0.26101	0.2610
	49	Fluorene	166	16.276	16.284	(1.073)	860	0.00863	0.008633
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	56833	5.11659	5.117
	56	4-Bromophenyl-phenylether	248	16.816	17.278	(0.923)	3214	0.13077	0.1308
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	378254	4.00000	
	60	Phenanthrene	178	18.261	18.269	(1.003)	5877	0.05959	0.05959
	61	Anthracene	178	18.362	18.362	(1.008)	958	0.01018	0.01018
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	20.652	20.652	(0.888)	5189	0.06144	0.06144
	65	Pyrene	202	21.078	21.077	(0.906)	6232	0.07018	0.07018
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	322500	5.12212	5.122
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.269	23.276	(1.000)	262292	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	6628	0.12055	0.1205
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	495070	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.901	25.901	(1.000)	289029	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.656	4.633	(0.515)	86481	0.97515	0.9751
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010622.D
Lab Smp Id: 22L0246-46
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	126493	10.94
27 Naphthalene-d8	420653	210327	841306	469620	11.64
42 Acenaphthene-d10	216802	108401	433604	230848	6.48
59 Phenanthrene-d10	366121	183061	732242	378254	3.31
69 Chrysene-d12	276883	138442	553766	262292	-5.27
134 Di-n-octylphthala	540641	270321	1081282	495070	-8.43
77 Perylene-d12	308305	154153	616610	289029	-6.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.28	22.78	23.78	23.27	-0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010622.D

Lab ID: 22L0246-46
nt14.i, 20230106.b\ABN.m,   07-JAN-2023 00:15

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.923	0.949	-0.0254	4-Bromophenyl-phenylether

RRT check based on Ccal File: NT1423010619.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809F

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

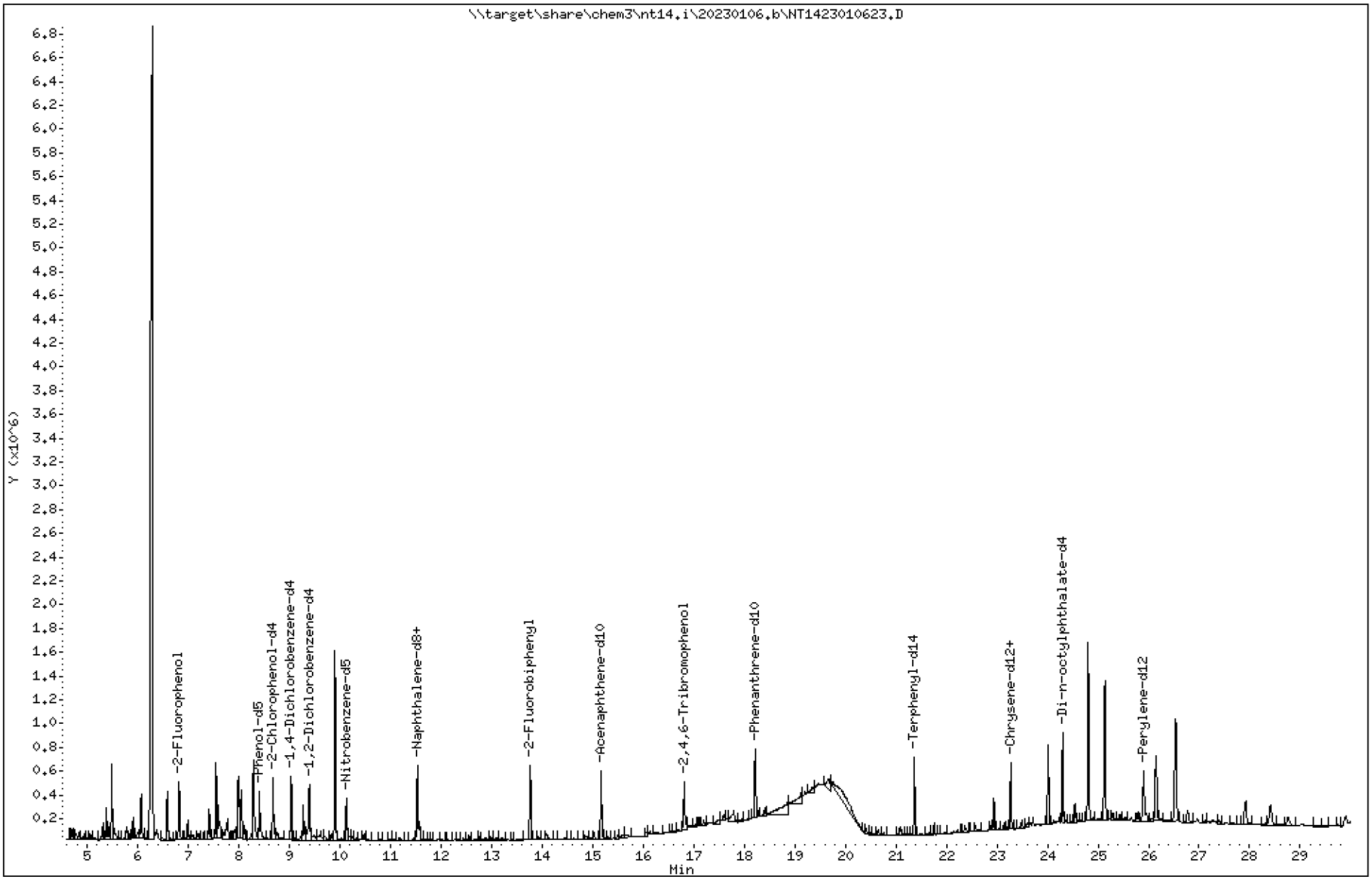
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-47 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010623.D
% Solids:	71.14	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/07/23 00:51
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	14.06 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	499.89	560	112	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D
Date : 07-JAN-2023 00:51
Client ID:
Sample Info: 22L0246-47

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 500 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

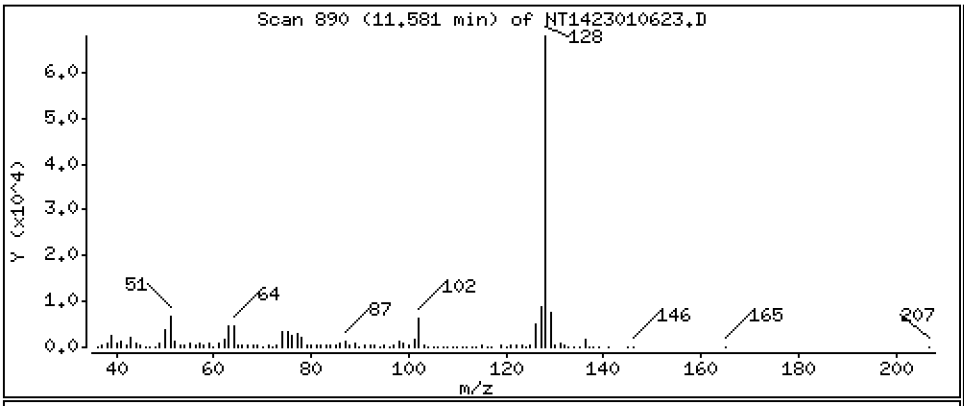
Operator: VTS

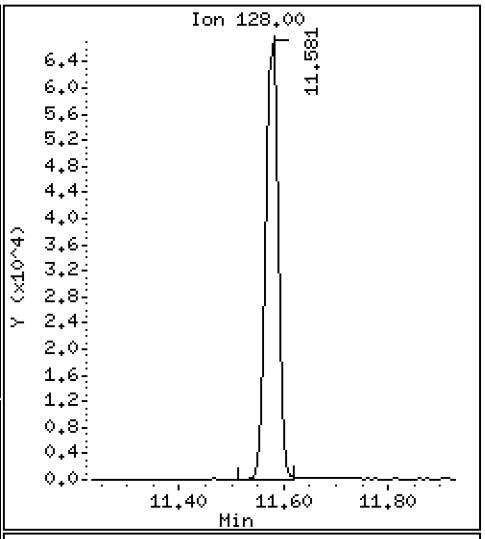
Column phase: ZB-5msi

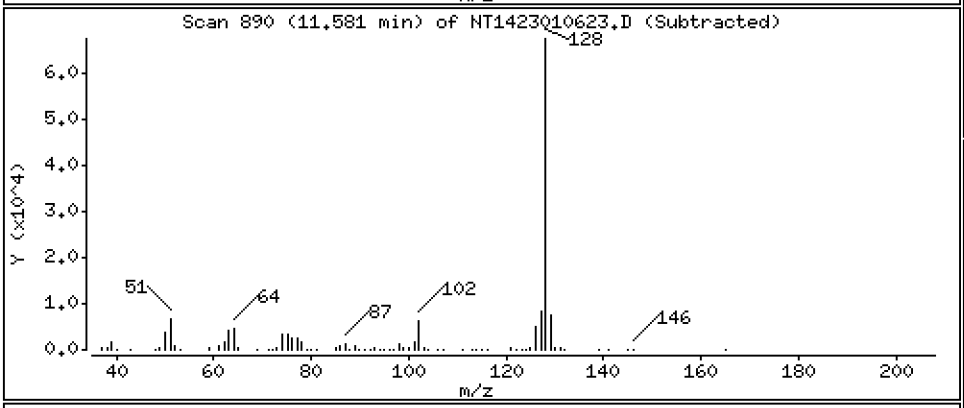
Column diameter: 0.25

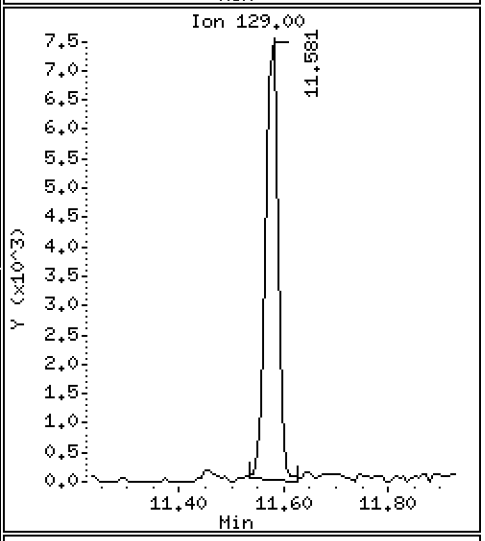
28 Naphthalene

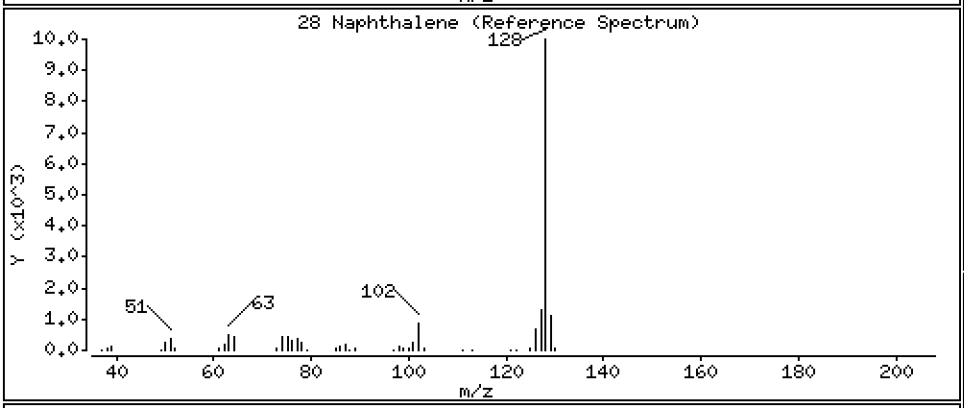
Concentration: 0.9422 ug/mL

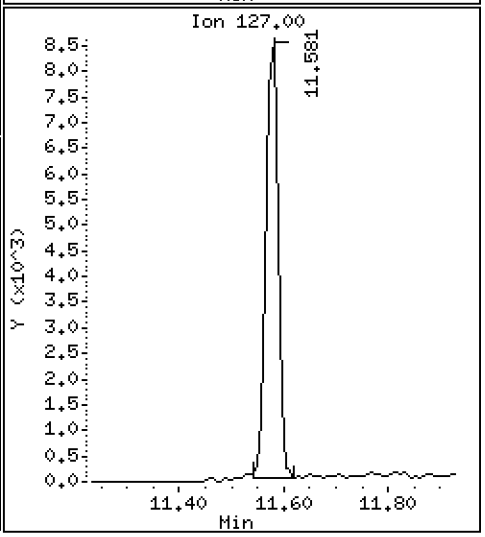


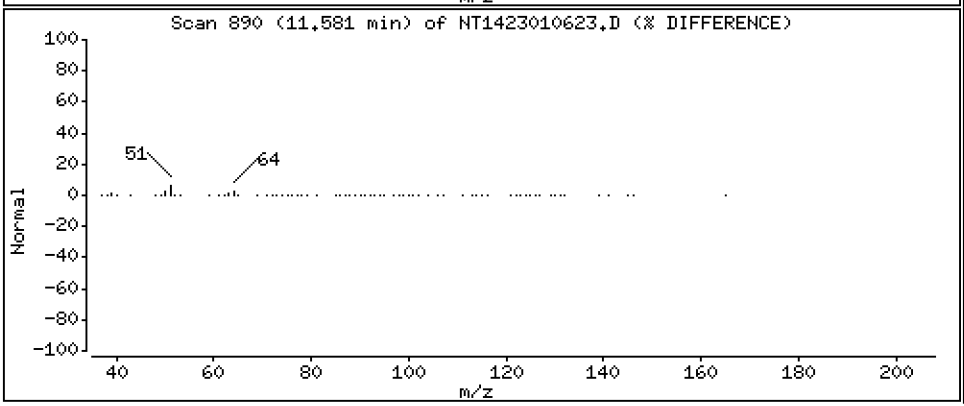












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

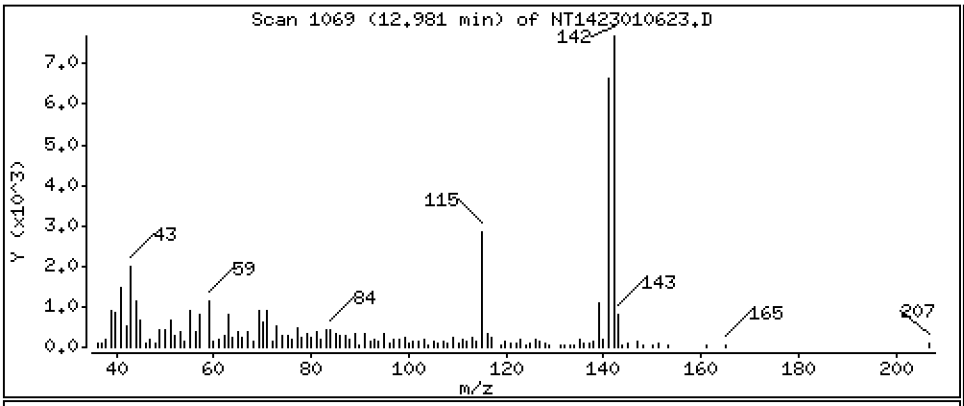
Operator: VTS

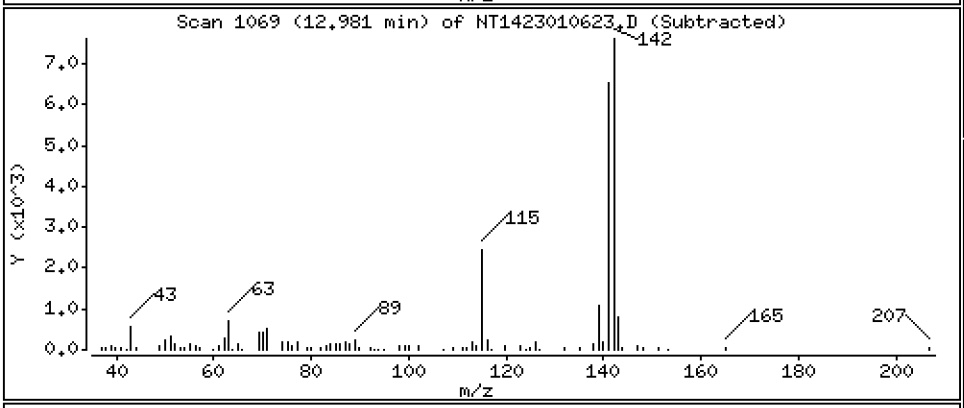
Column phase: ZB-5msi

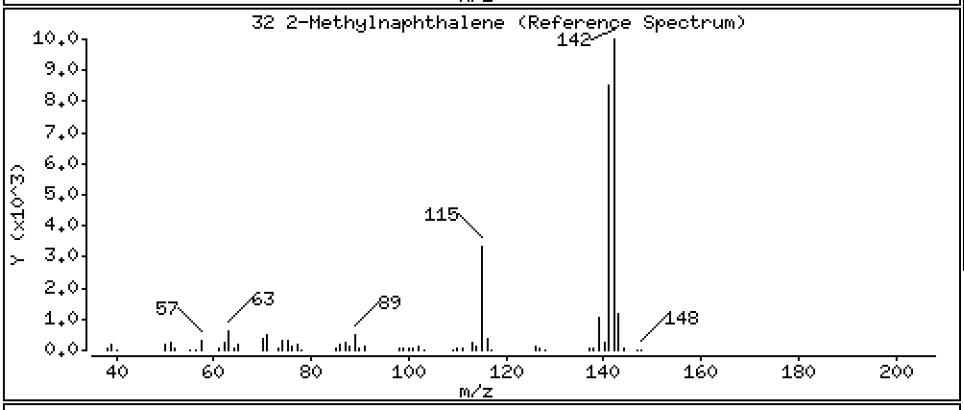
Column diameter: 0.25

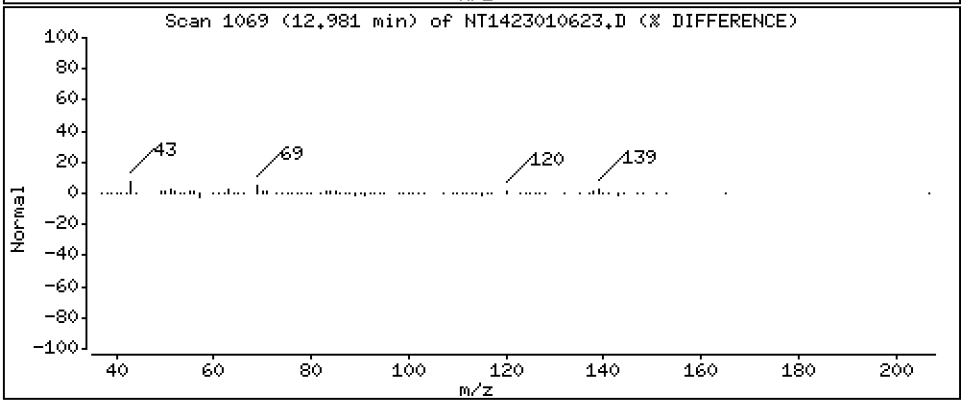
32 2-Methylnaphthalene

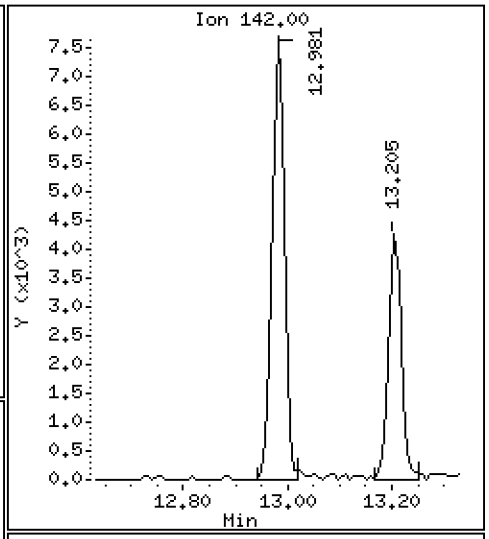
Concentration: 0.1461 ug/mL

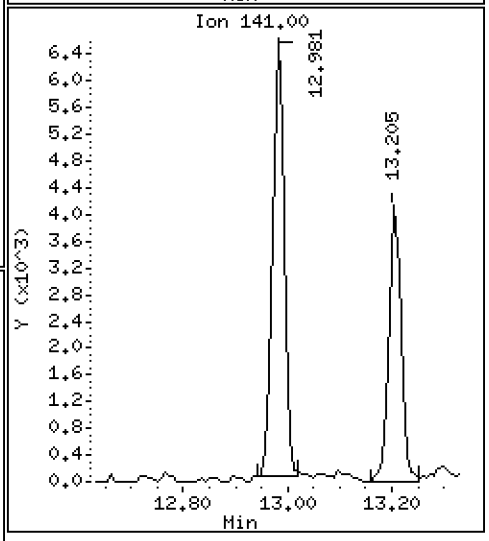












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

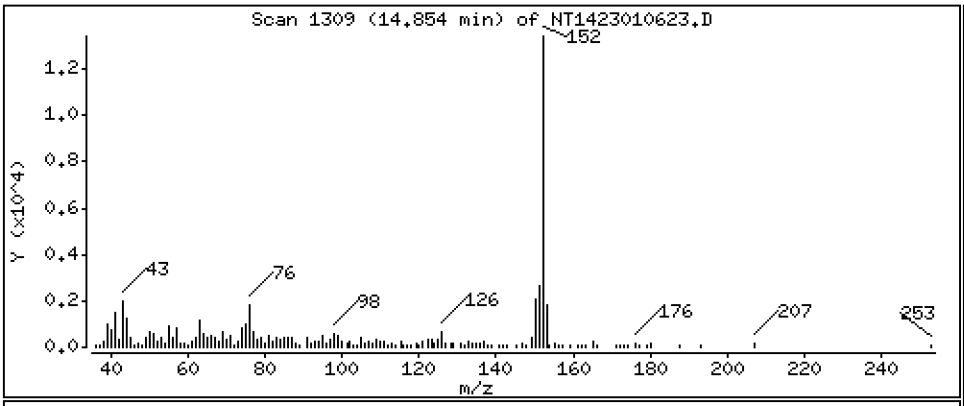
Operator: VTS

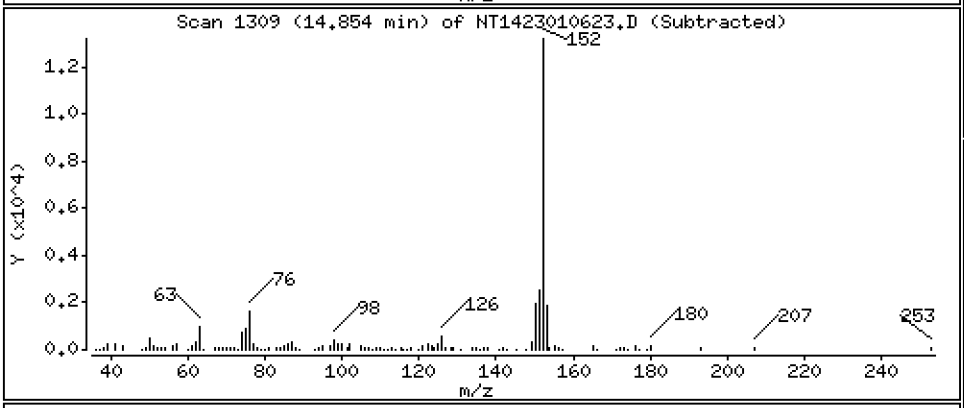
Column phase: ZB-5msi

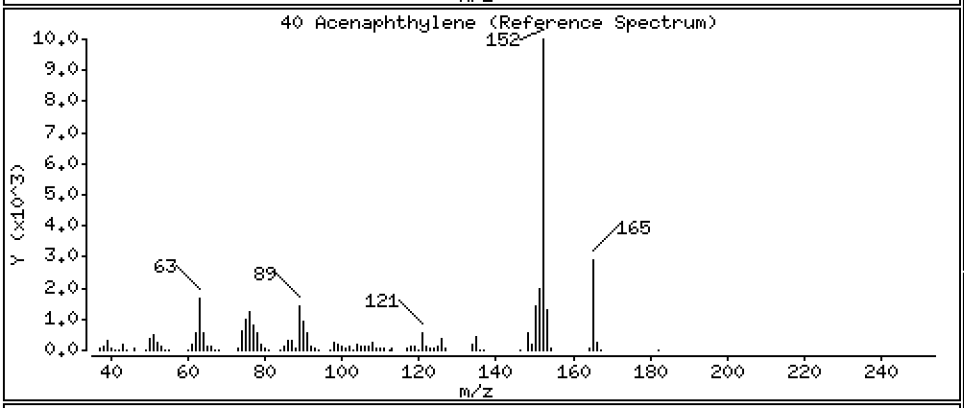
Column diameter: 0.25

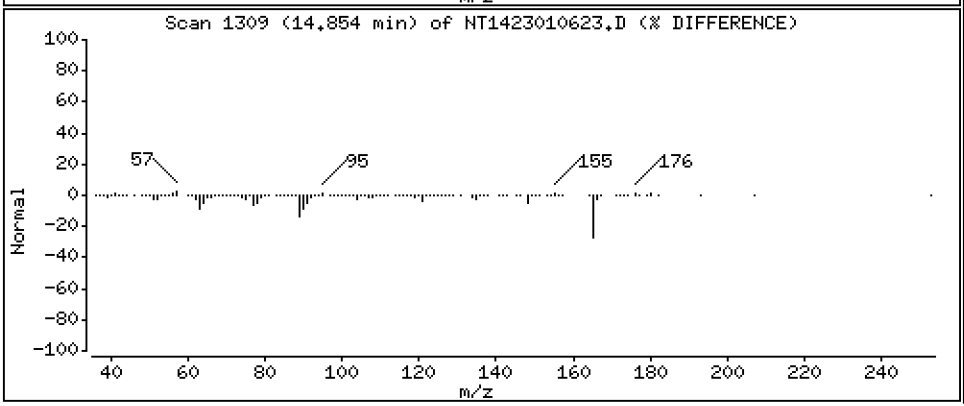
40 Acenaphthylene

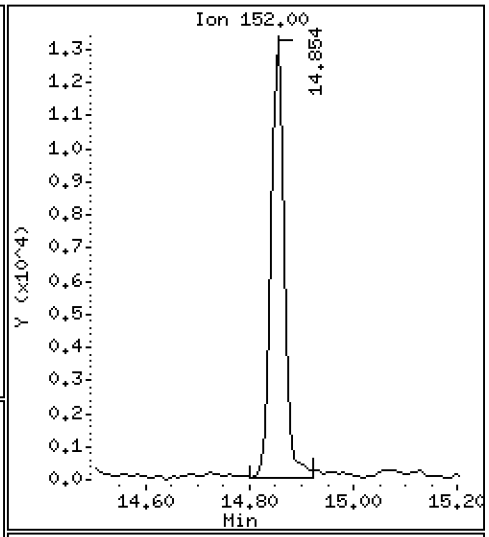
Concentration: 0.2306 ug/mL

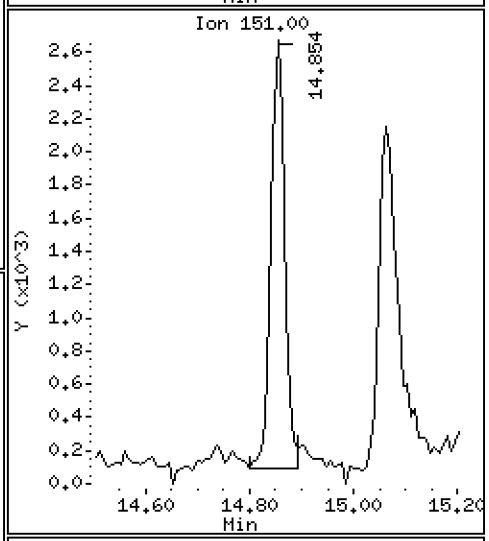


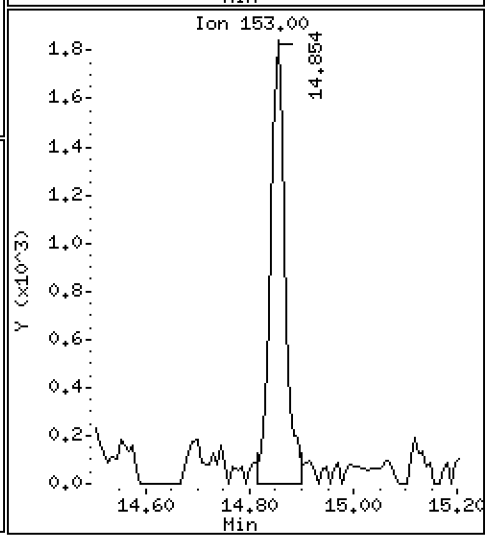












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

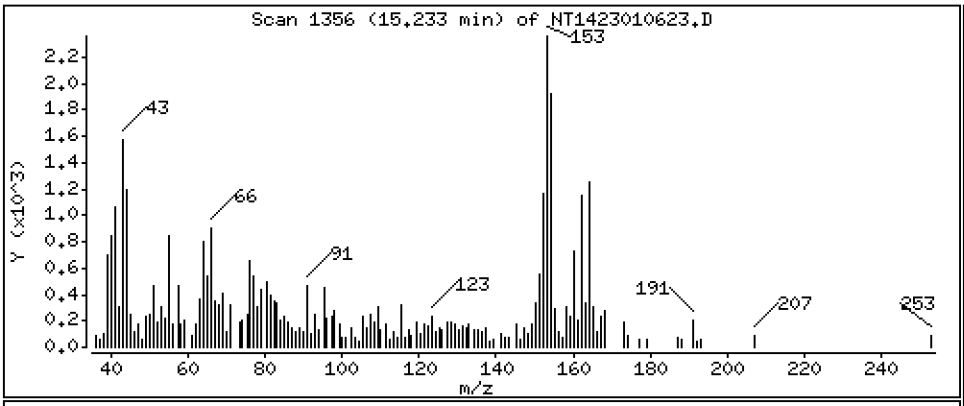
Operator: VTS

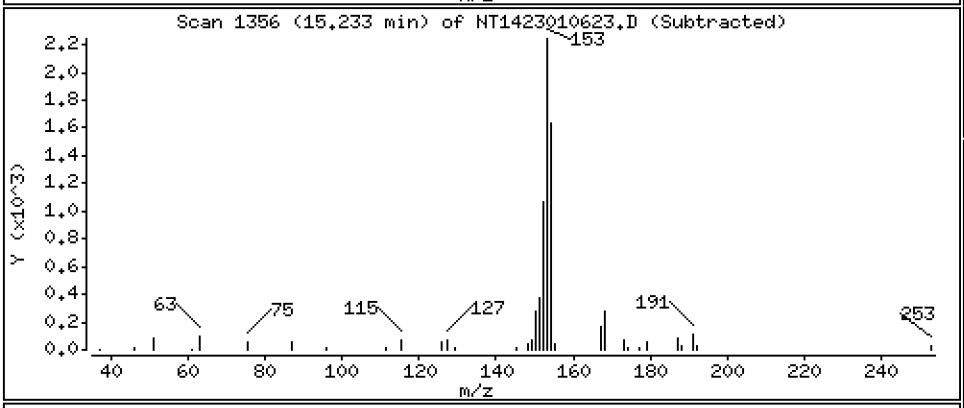
Column phase: ZB-5msi

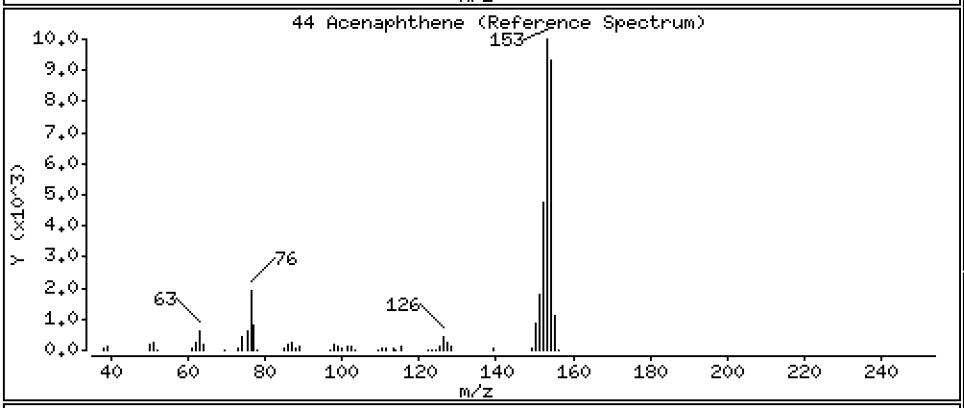
Column diameter: 0.25

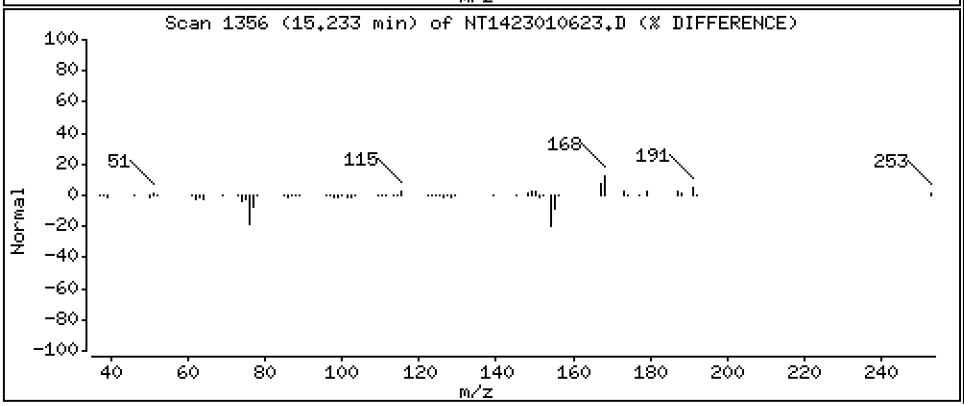
44 Acenaphthene

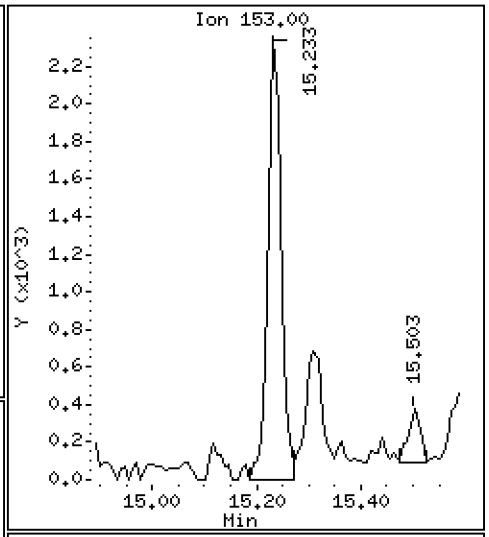
Concentration: 0.06565 ug/mL

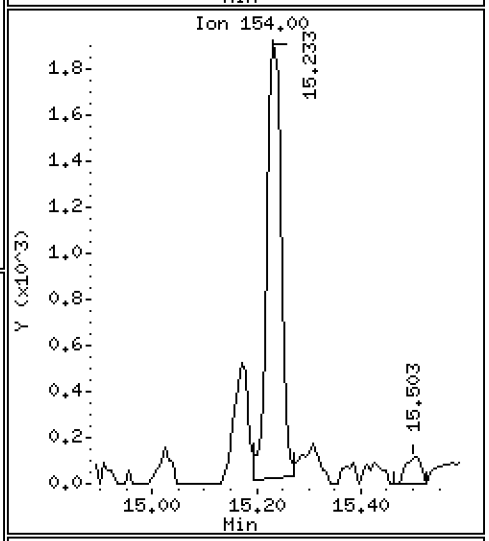


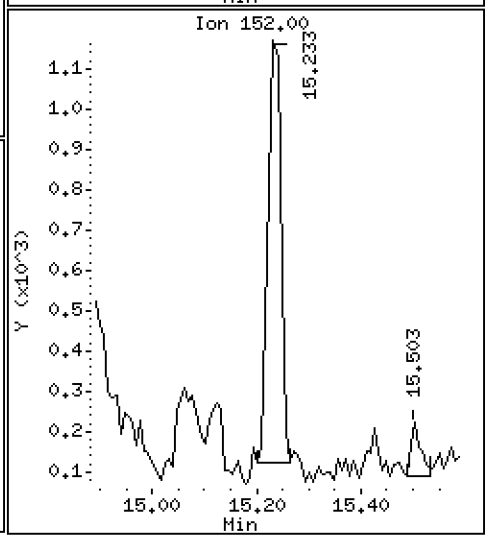












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

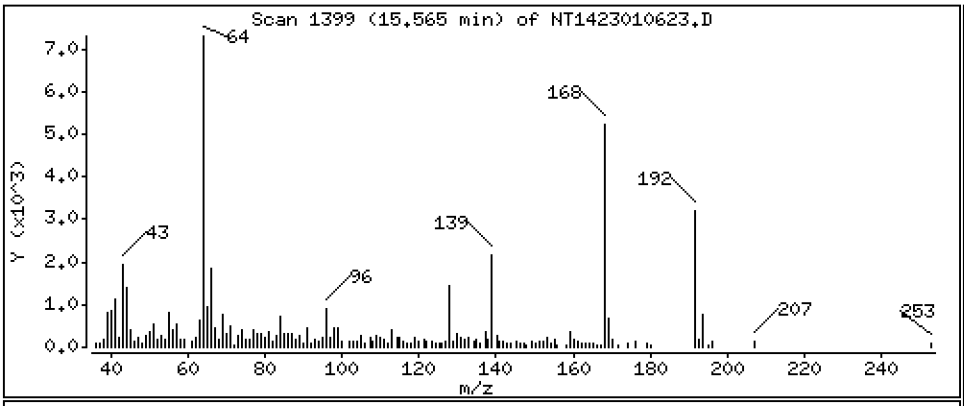
Operator: VTS

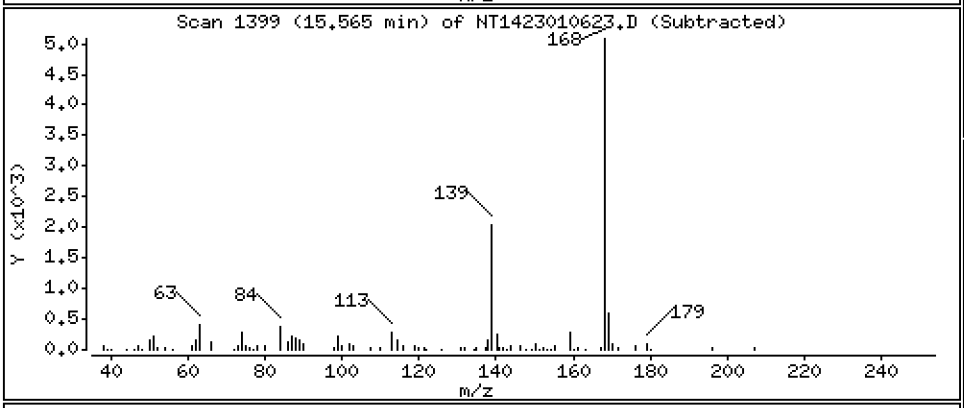
Column phase: ZB-5msi

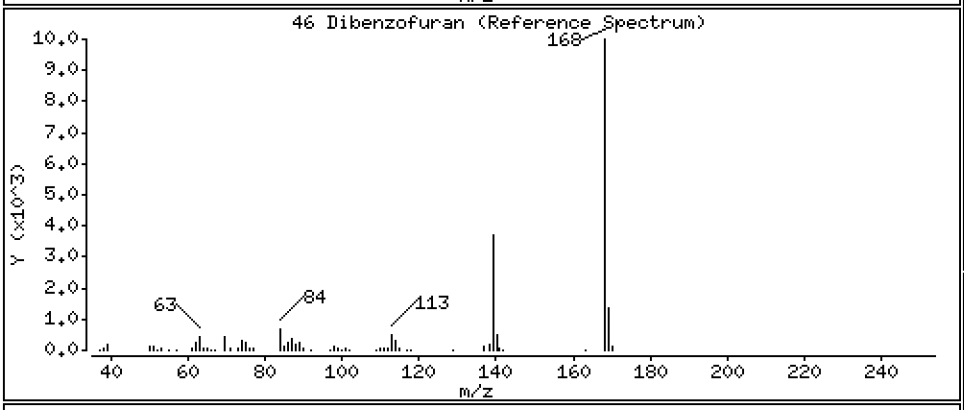
Column diameter: 0.25

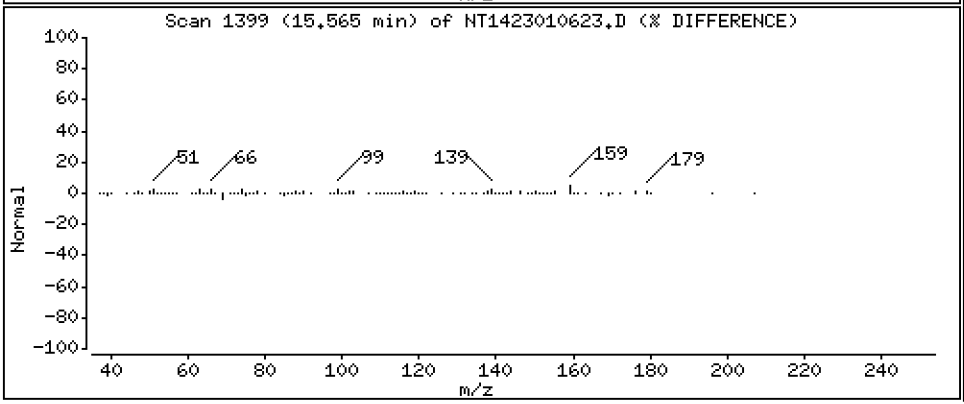
46 Dibenzofuran

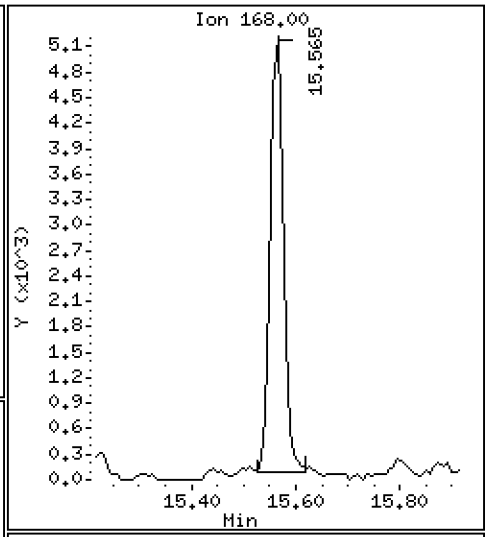
Concentration: 0.09534 ug/mL

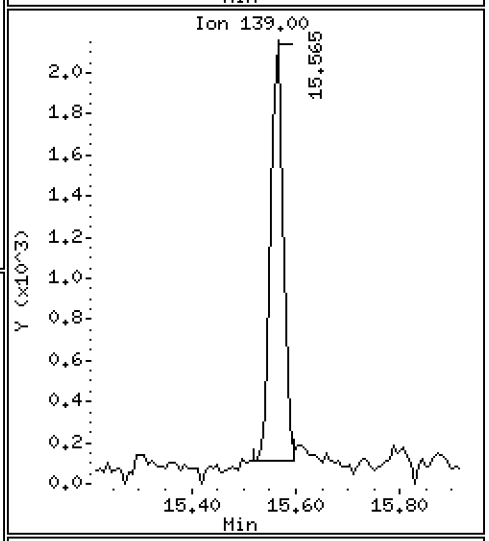


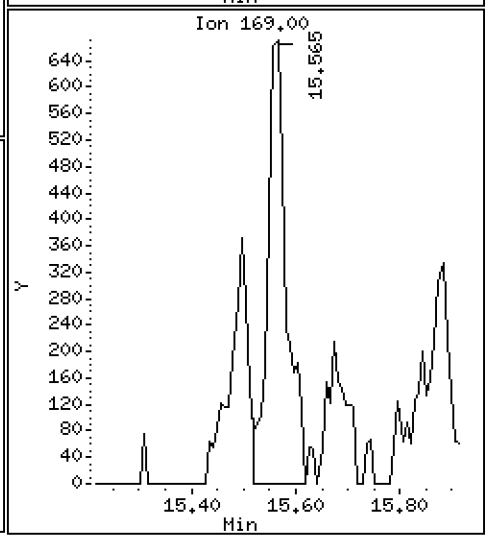












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

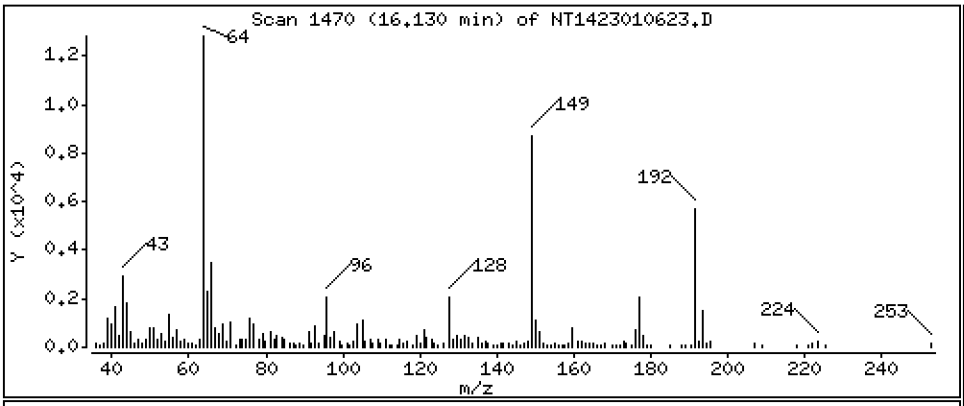
Operator: VTS

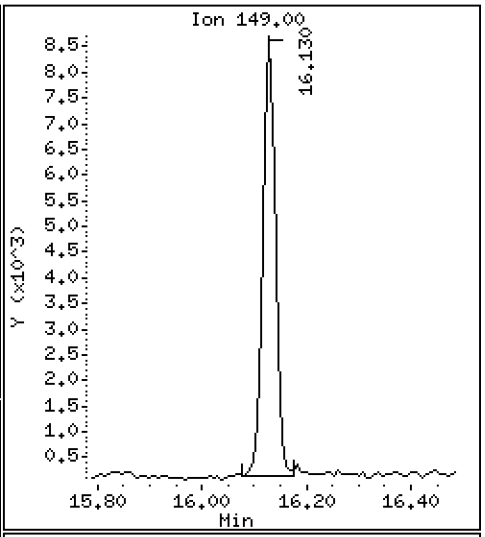
Column phase: ZB-5msi

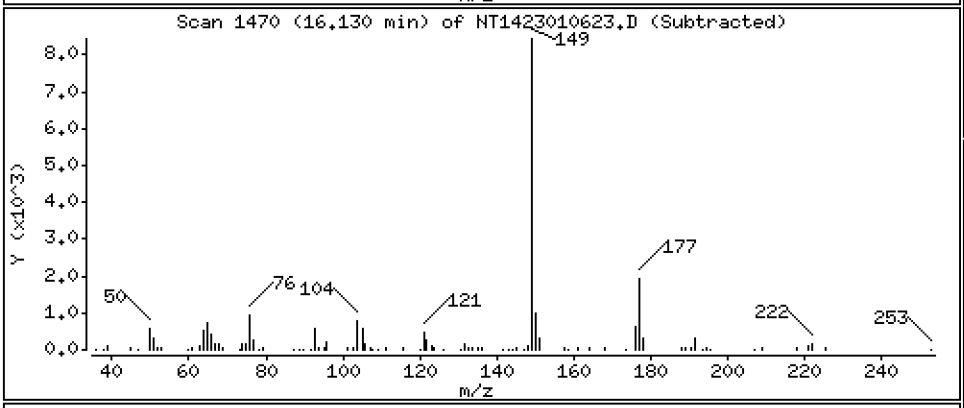
Column diameter: 0.25

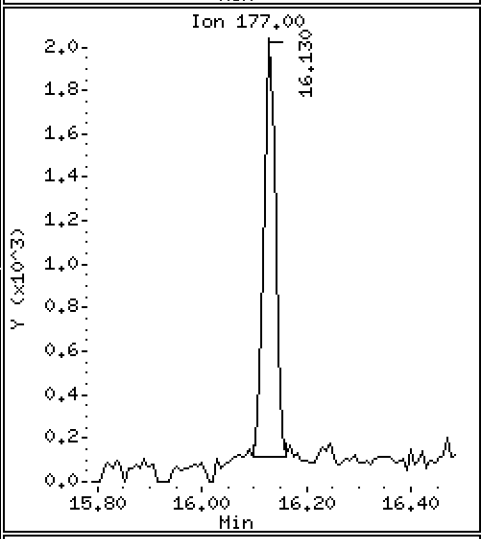
50 Diethylphthalate

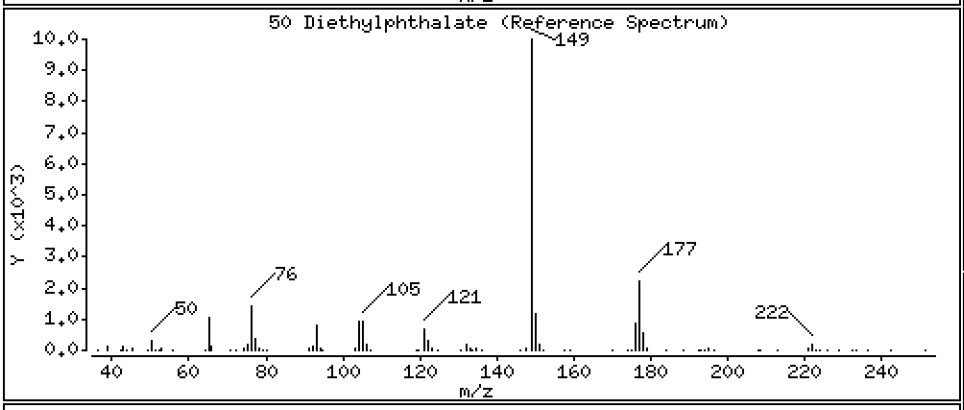
Concentration: 0.1603 ug/mL

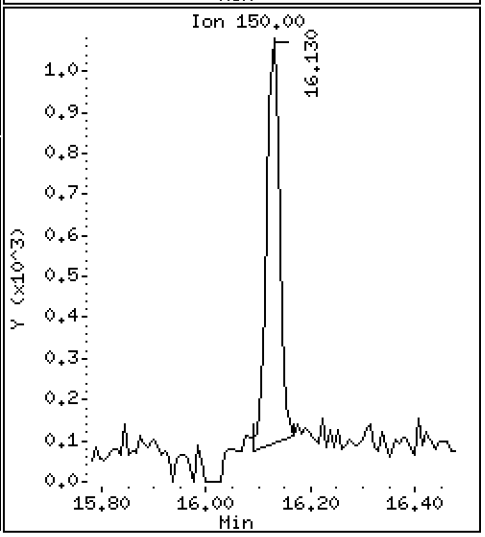


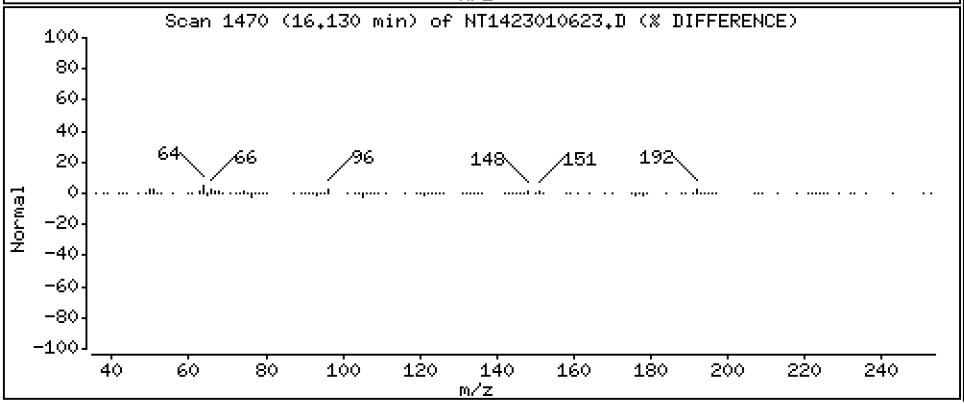












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

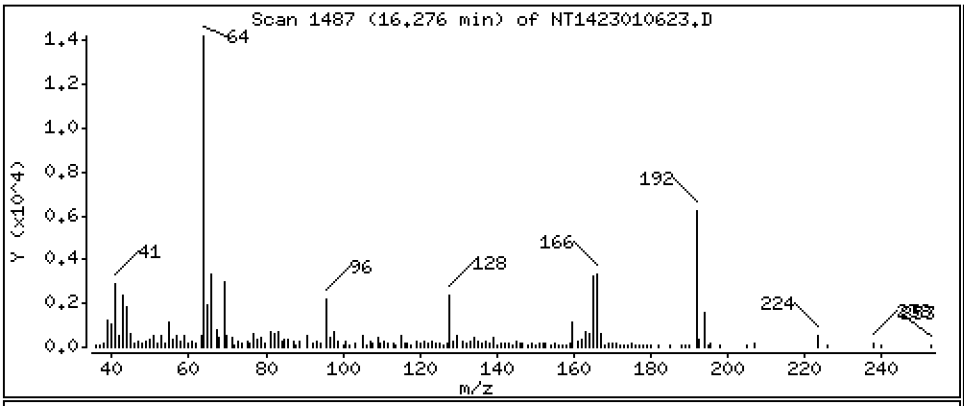
Operator: VTS

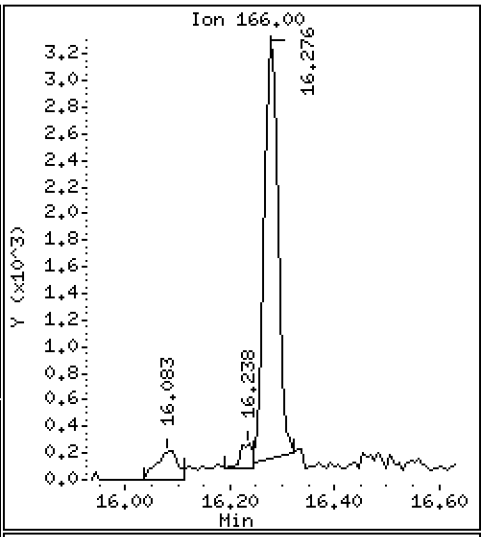
Column phase: ZB-5msi

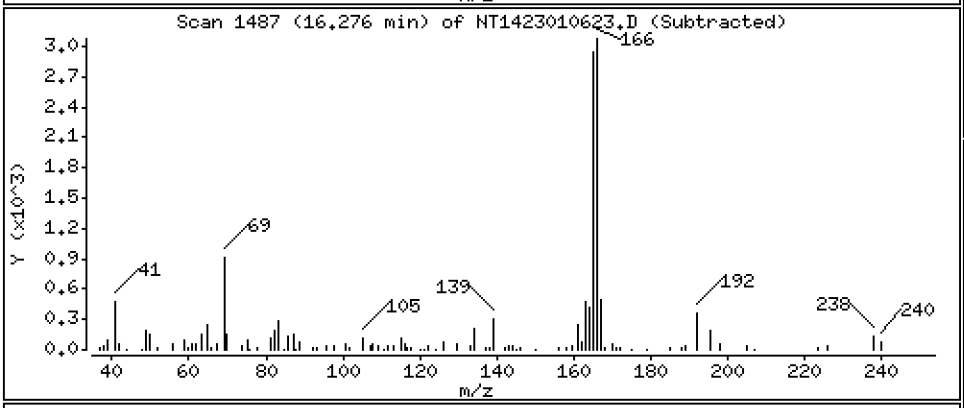
Column diameter: 0.25

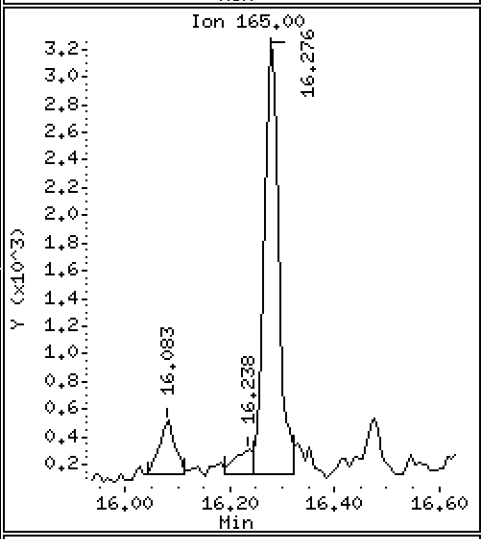
49 Fluorene

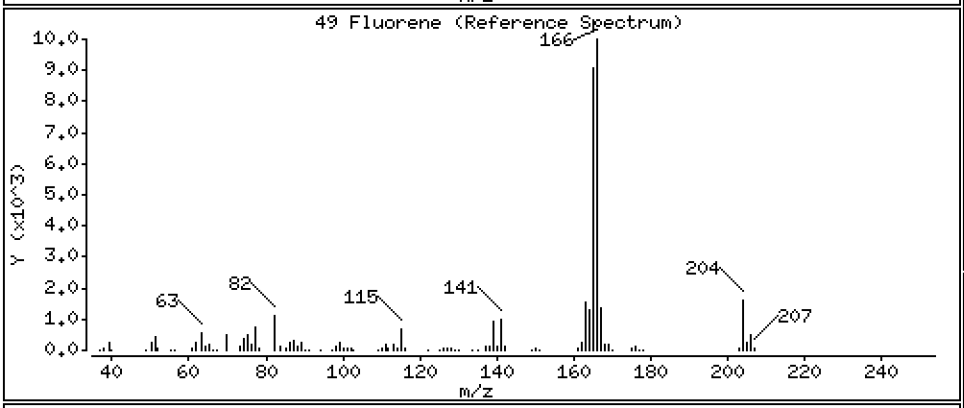
Concentration: 0.05850 ug/mL

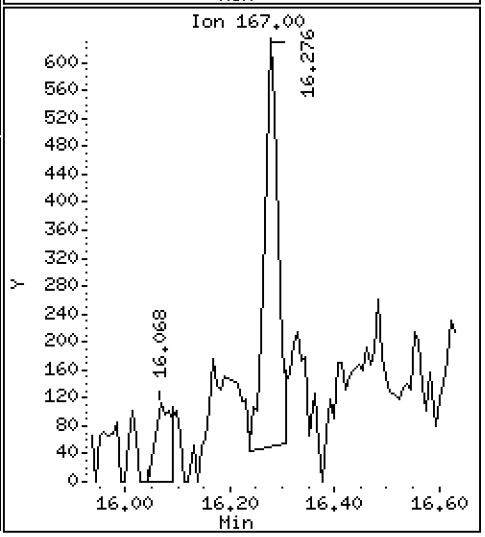


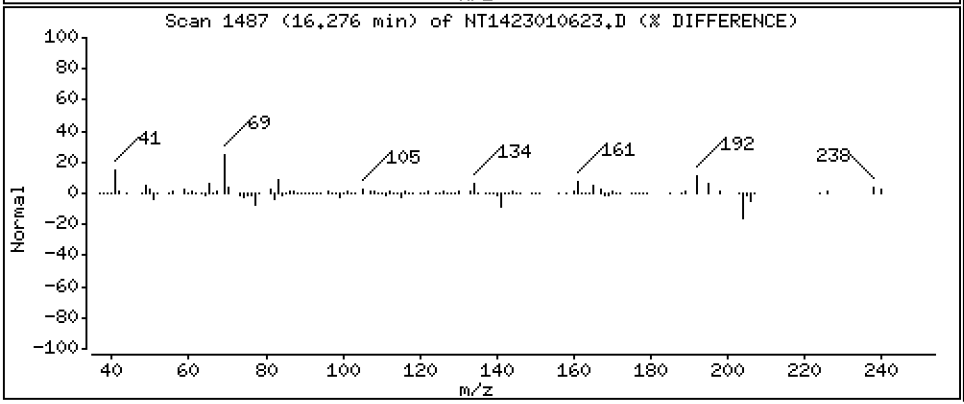












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

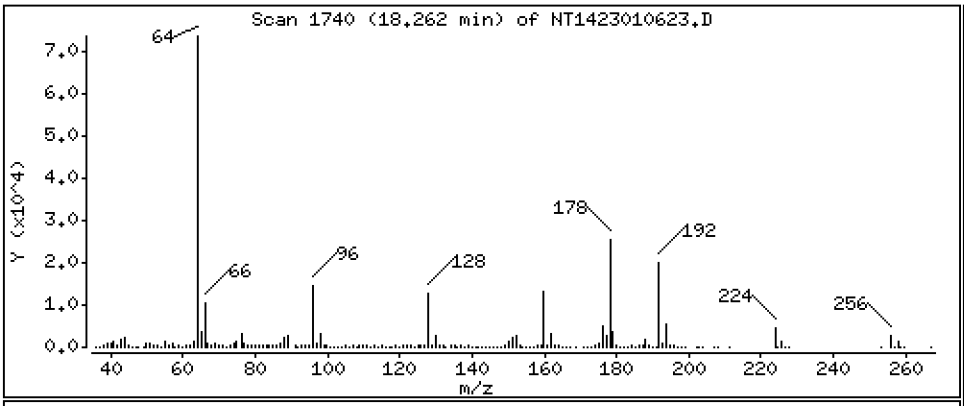
Operator: VTS

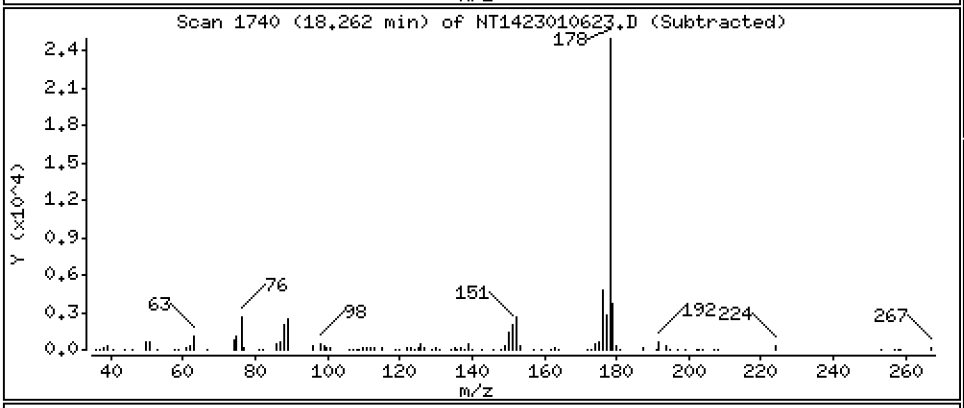
Column phase: ZB-5msi

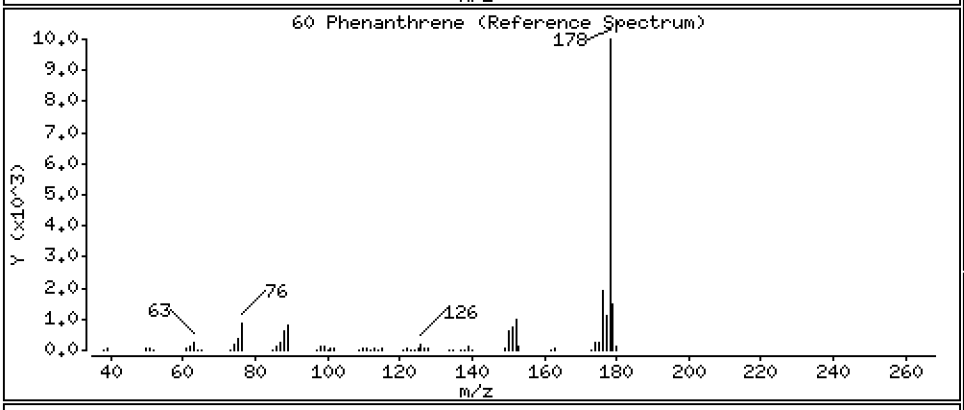
Column diameter: 0.25

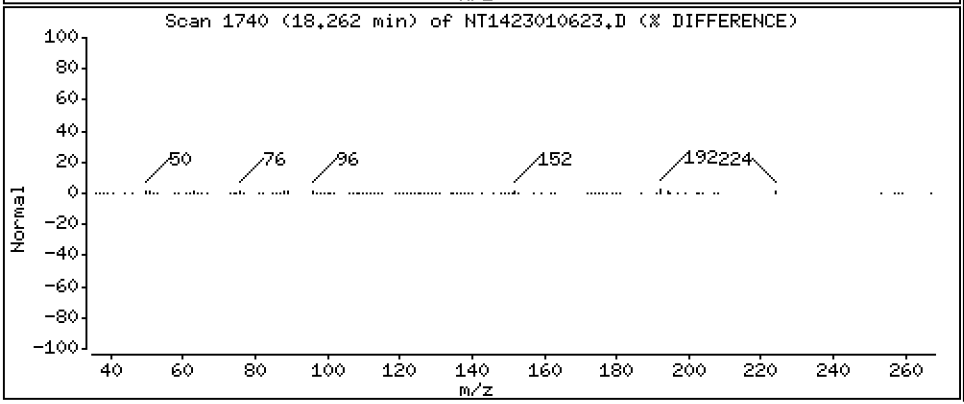
60 Phenanthrene

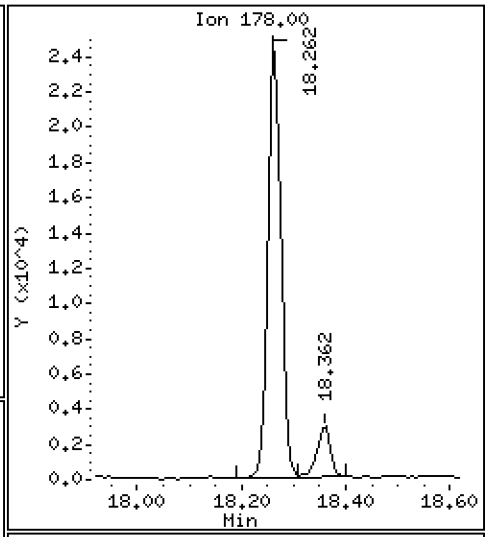
Concentration: 0.4300 ug/mL

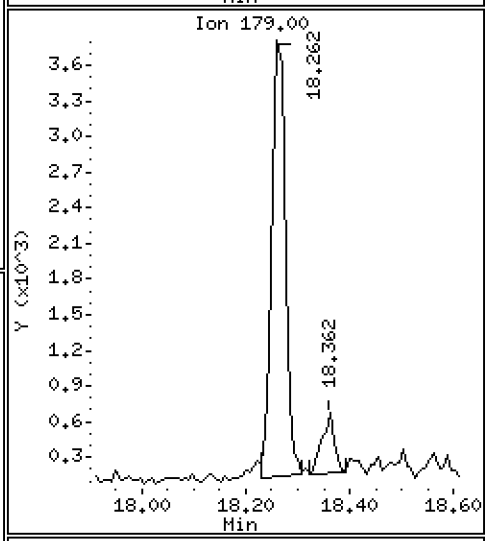


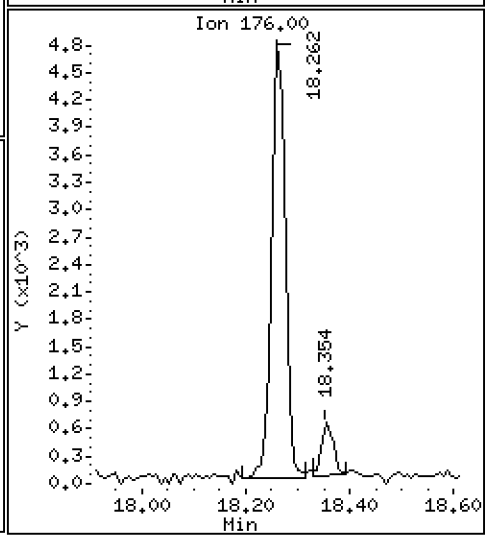












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

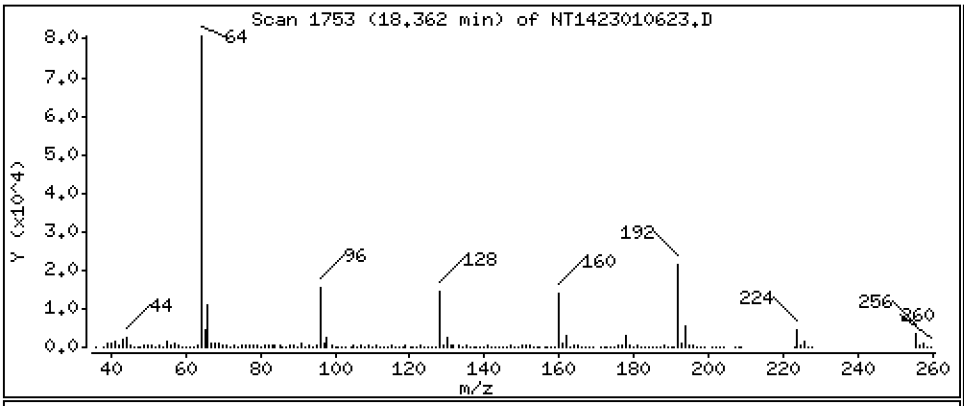
Operator: VTS

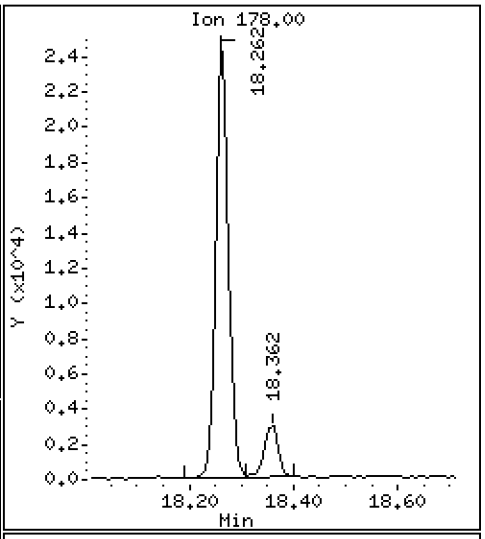
Column phase: ZB-5msi

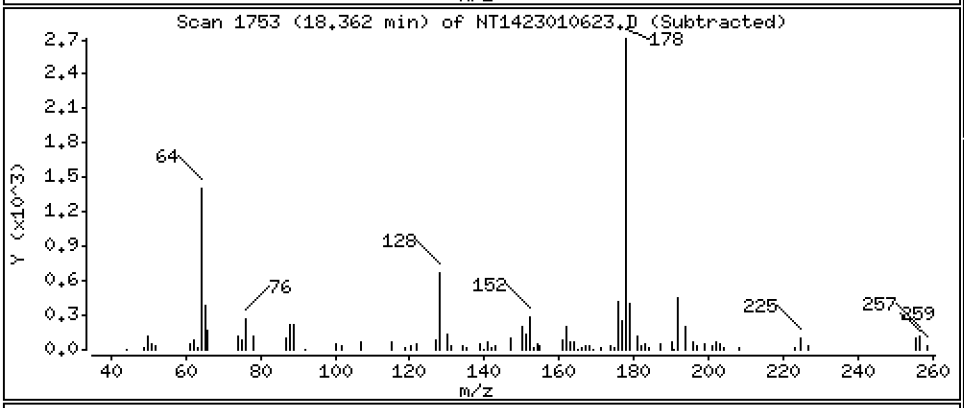
Column diameter: 0.25

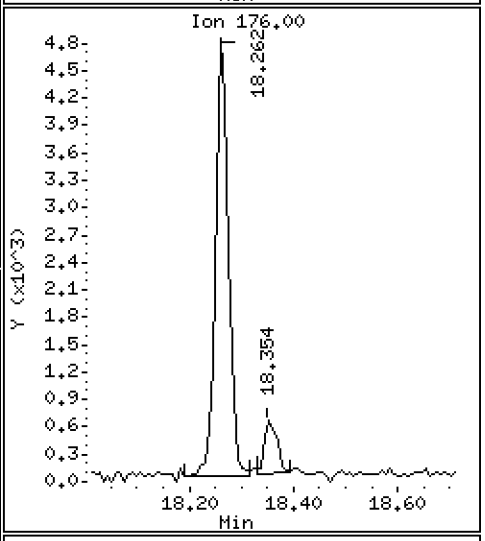
61 Anthracene

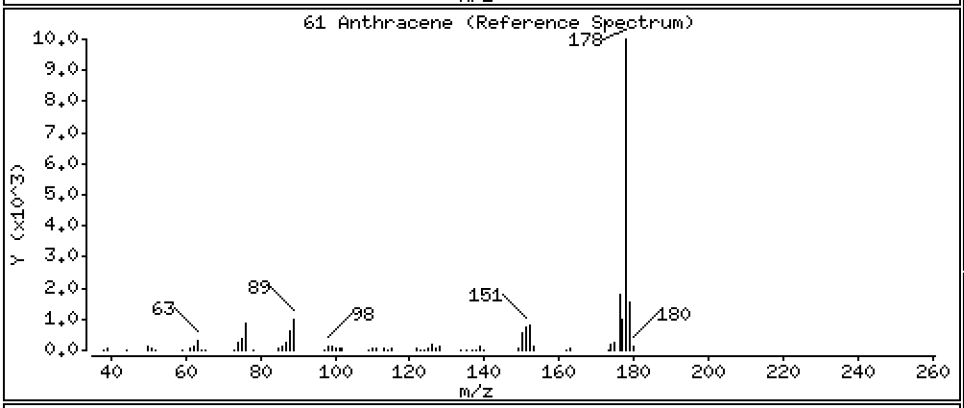
Concentration: 0.05633 ug/mL

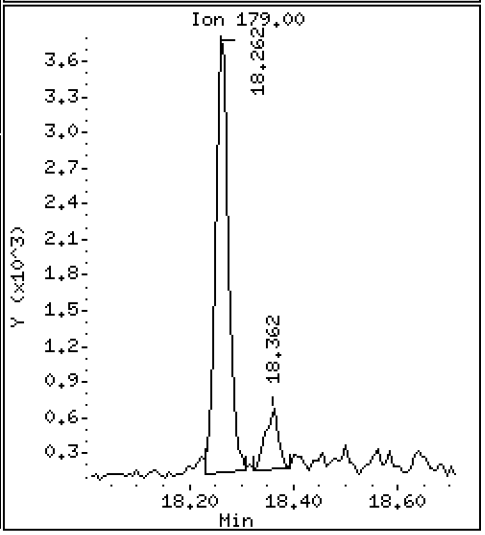


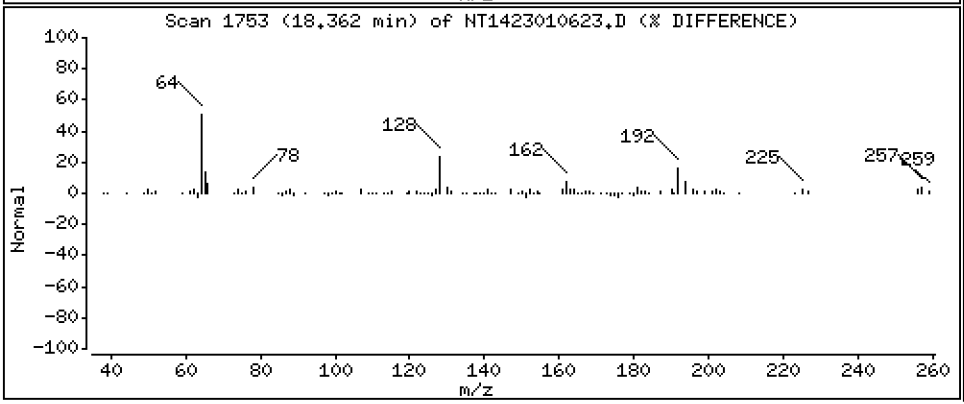












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

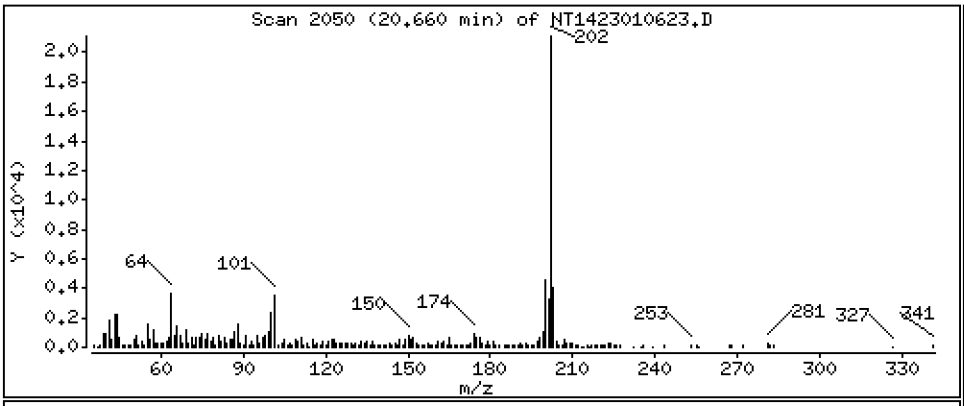
Operator: VTS

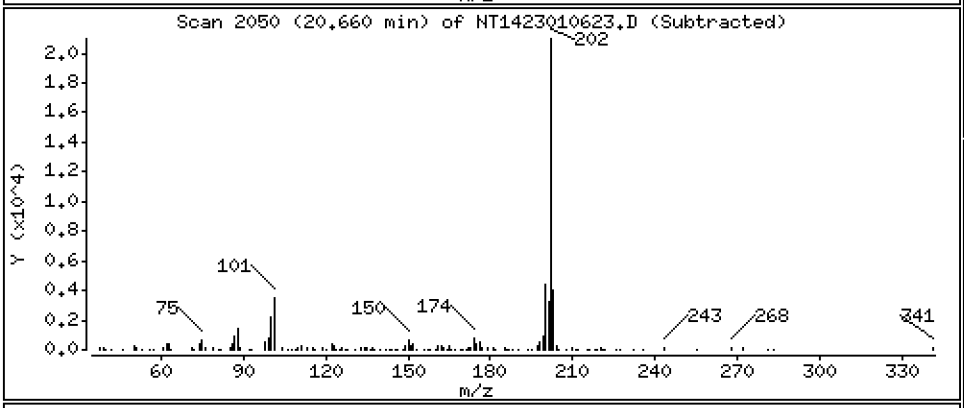
Column phase: ZB-5msi

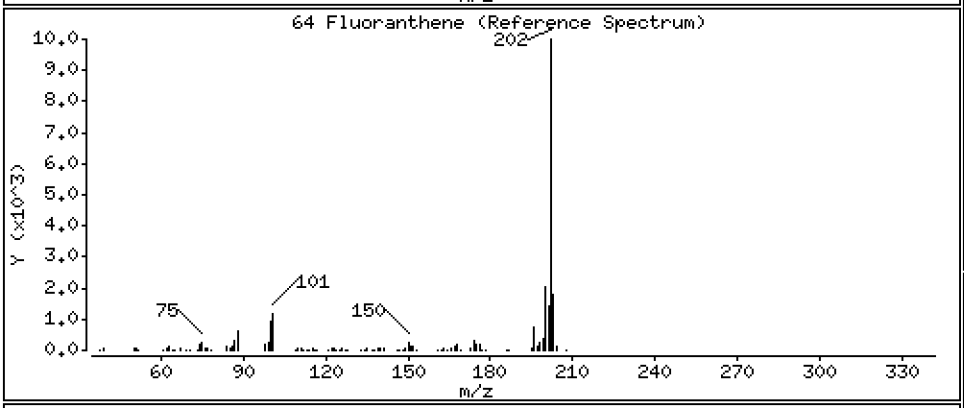
Column diameter: 0.25

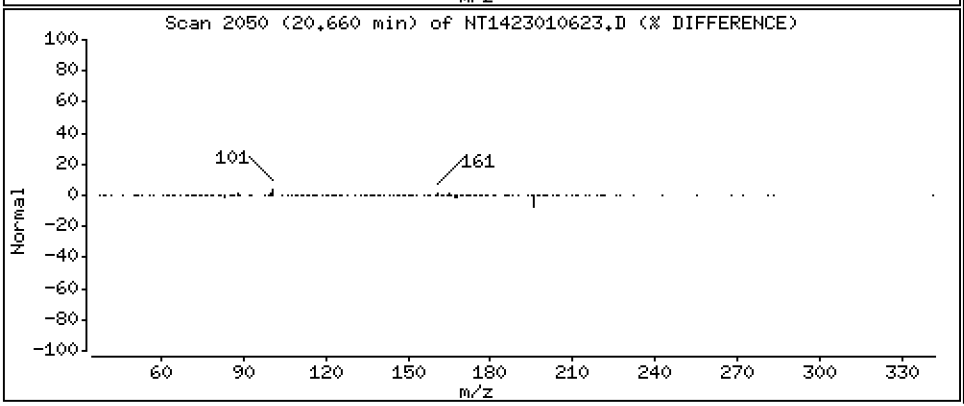
64 Fluoranthene

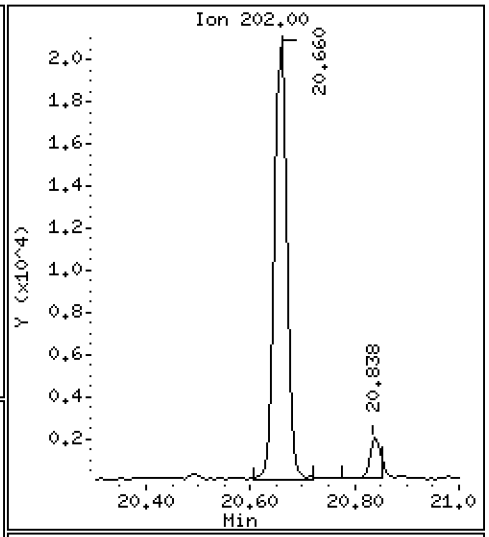
Concentration: 0.3847 ug/mL

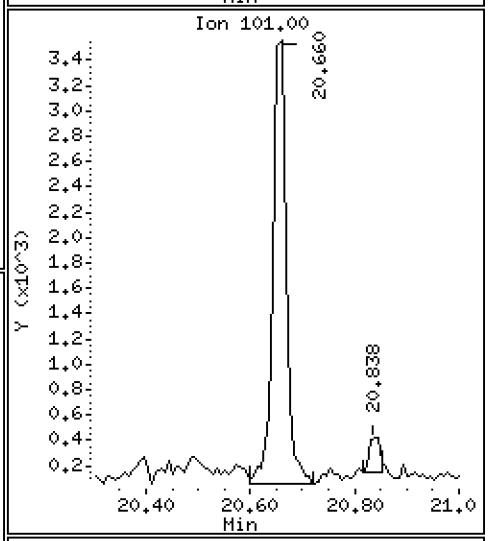


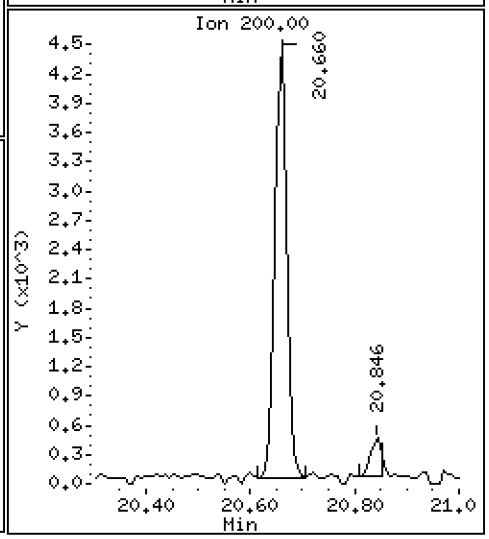












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D

Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

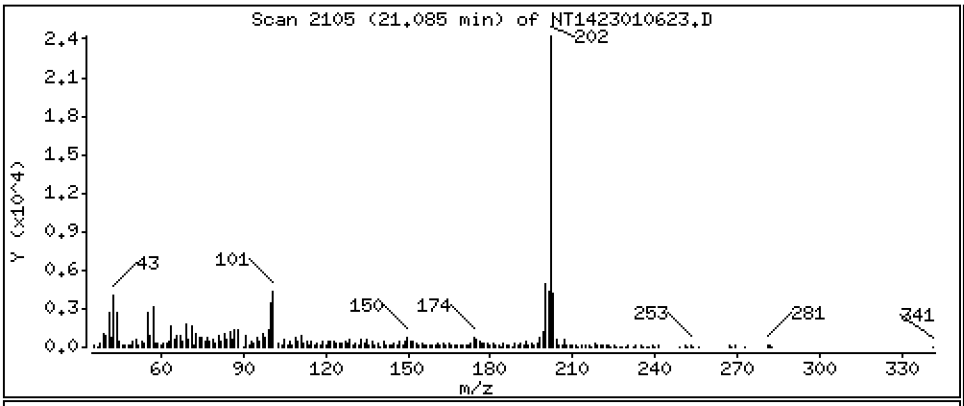
Operator: VTS

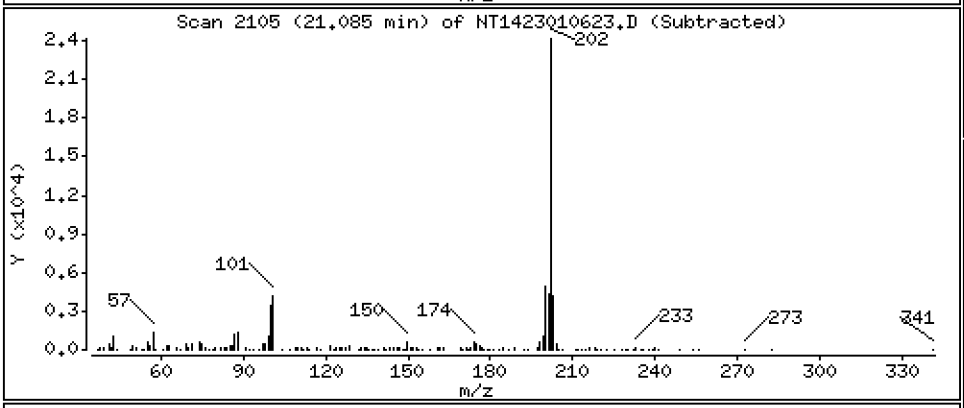
Column phase: ZB-5msi

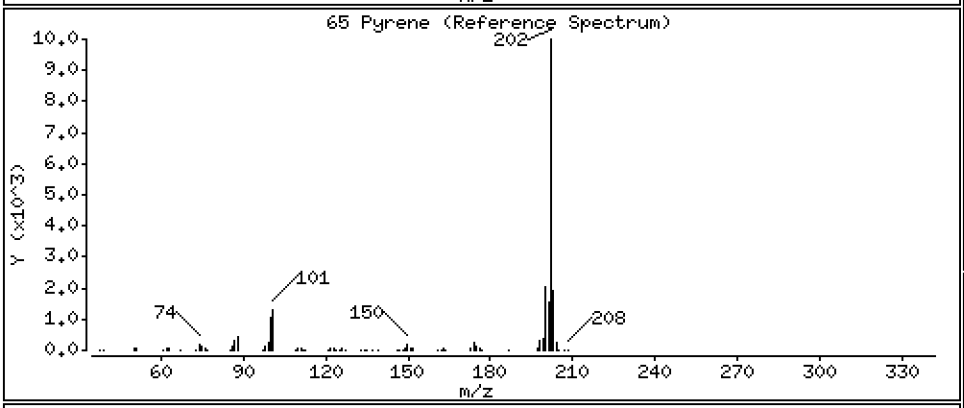
Column diameter: 0.25

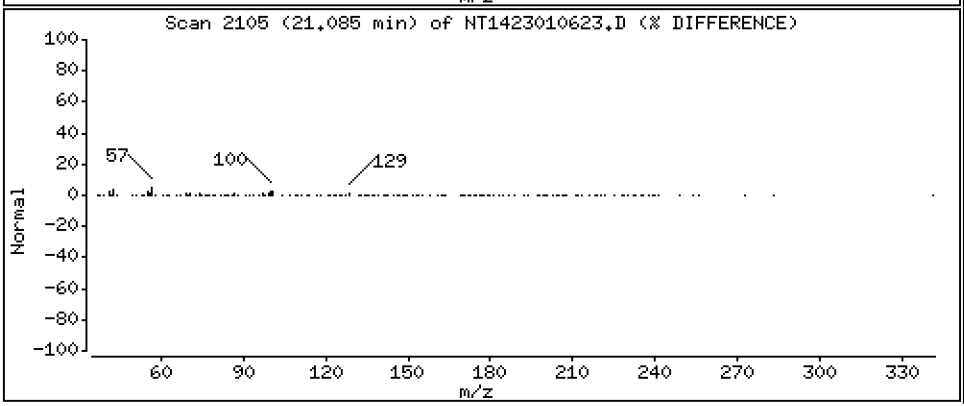
65 Pyrene

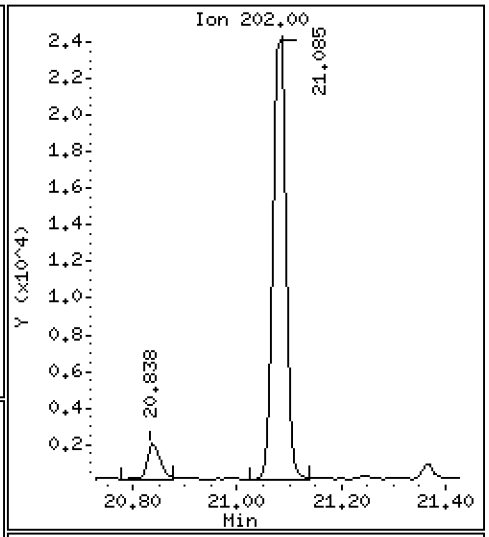
Concentration: 0.4387 ug/mL

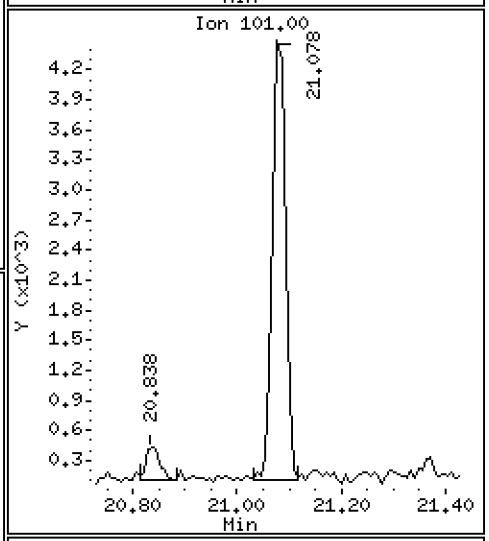


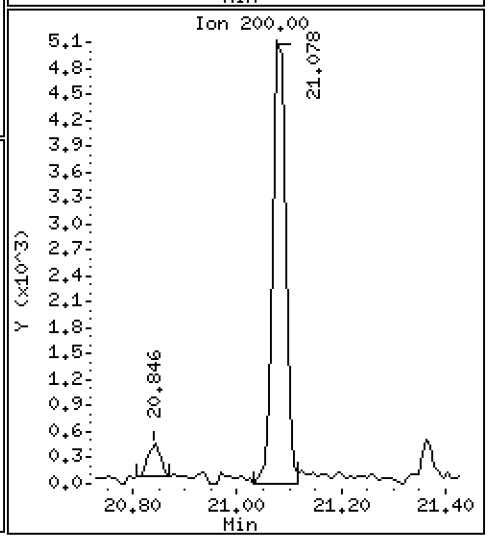












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

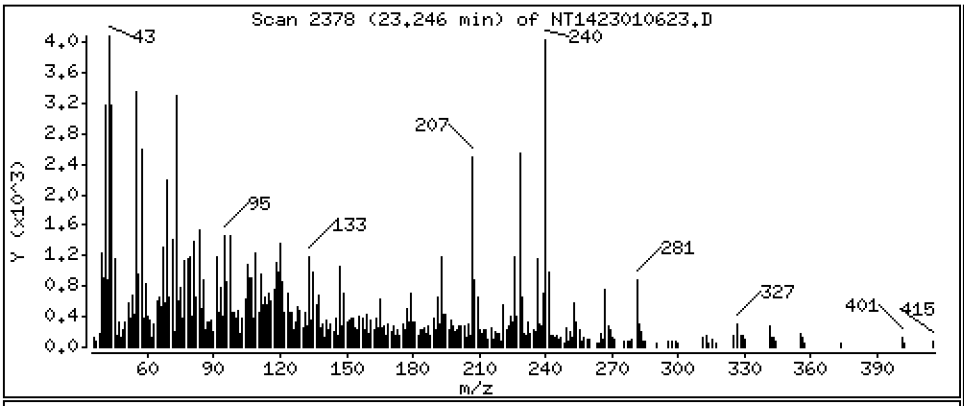
Operator: VTS

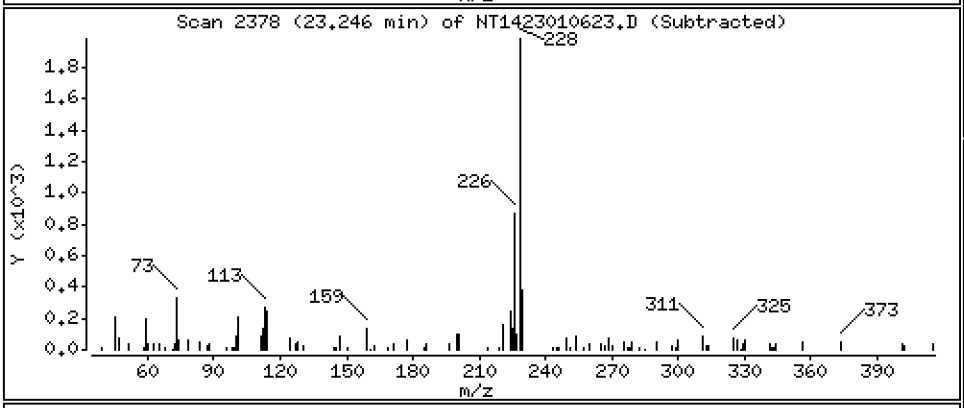
Column phase: ZB-5msi

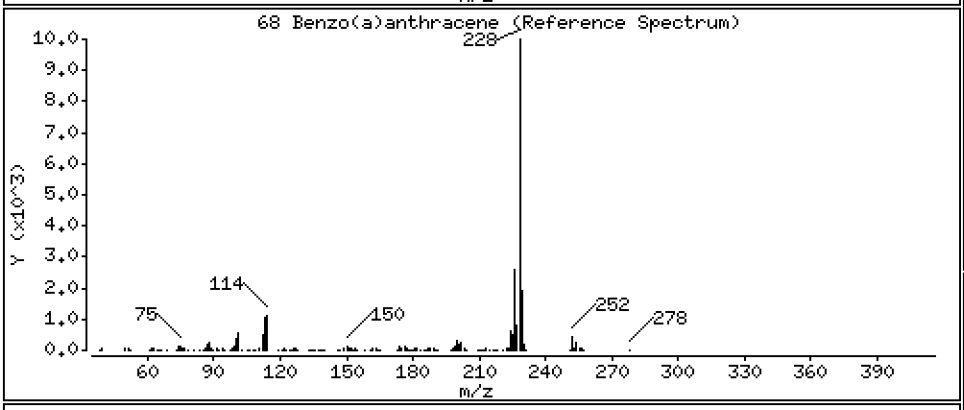
Column diameter: 0.25

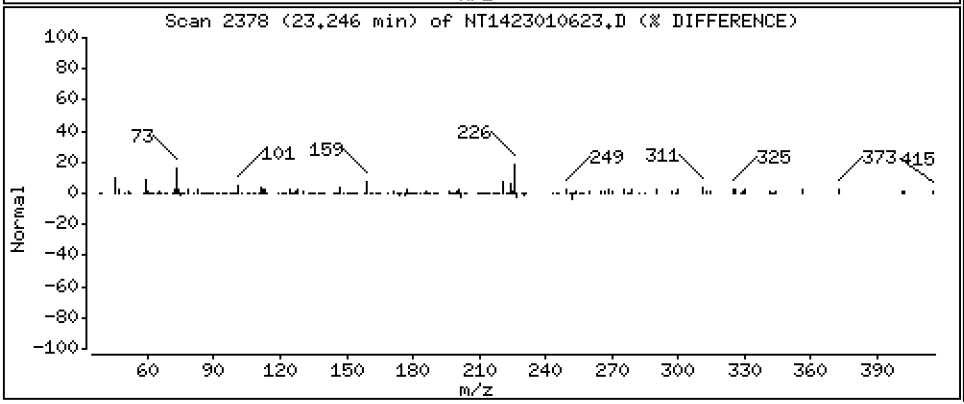
68 Benzo(a)anthracene

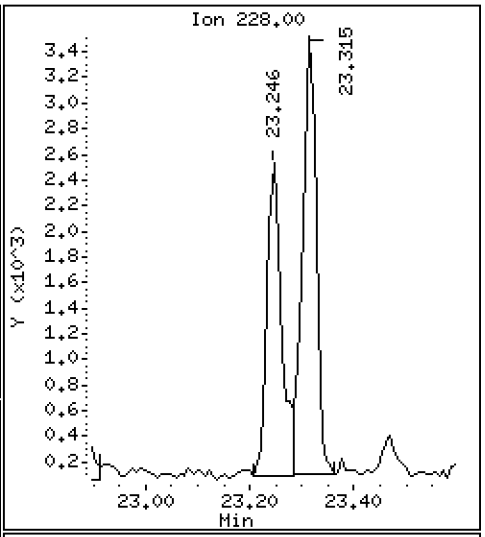
Concentration: 0.05796 ug/mL

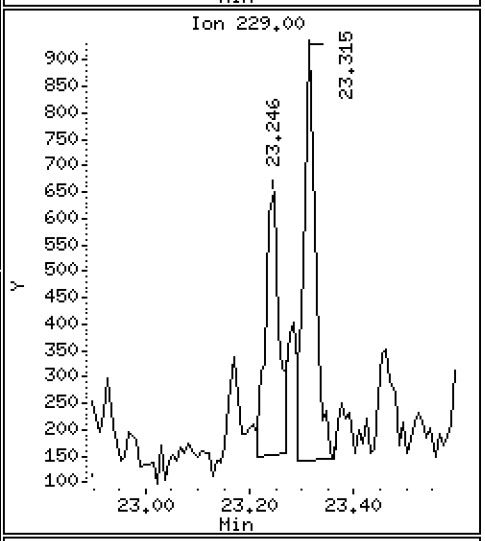


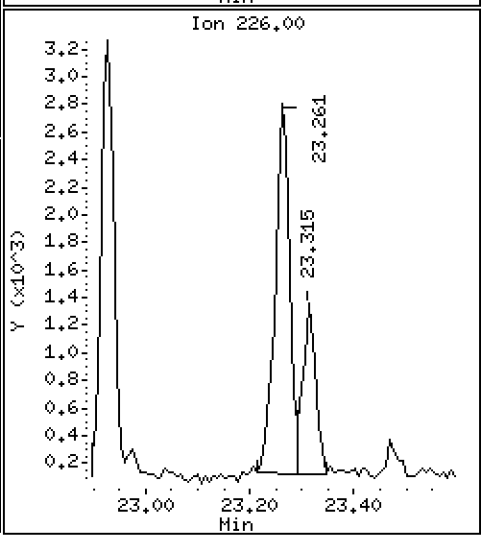












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

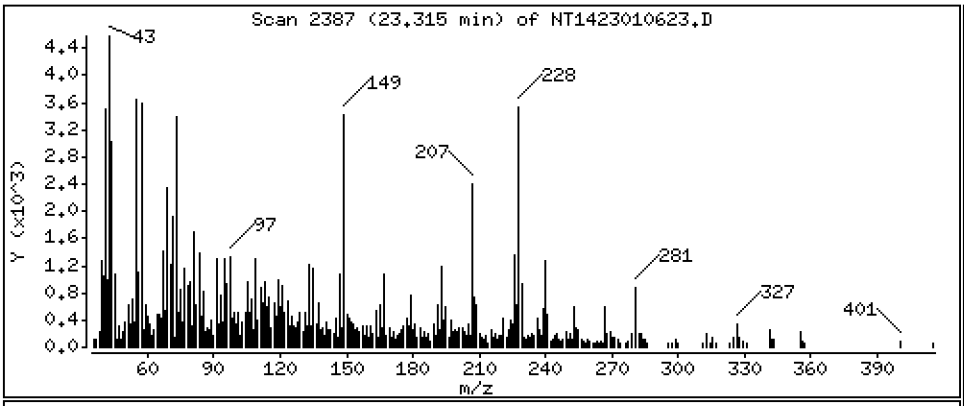
Operator: VTS

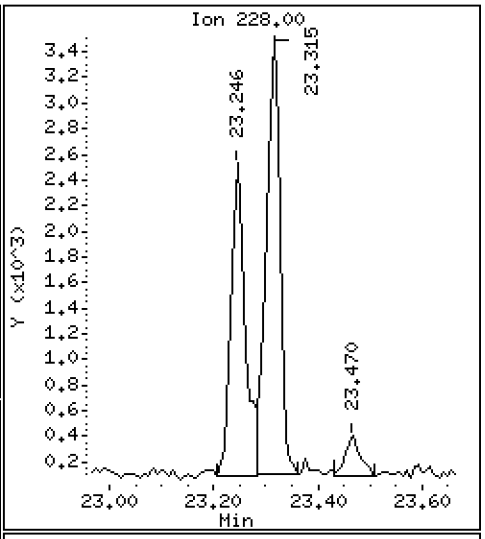
Column phase: ZB-5msi

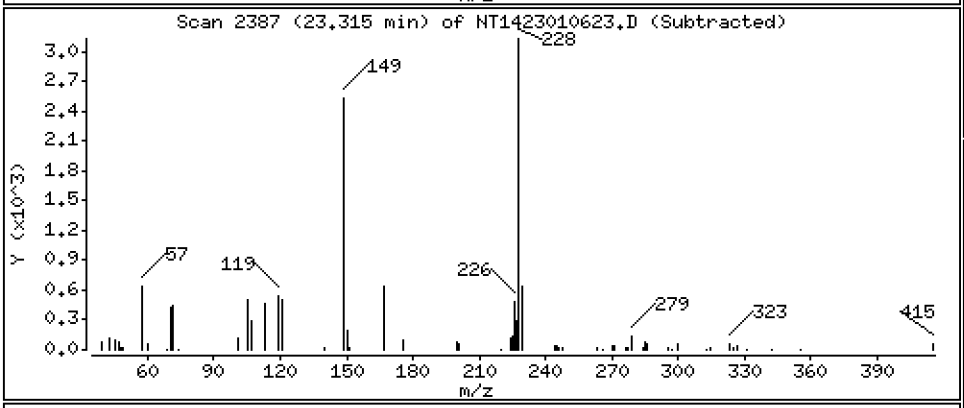
Column diameter: 0.25

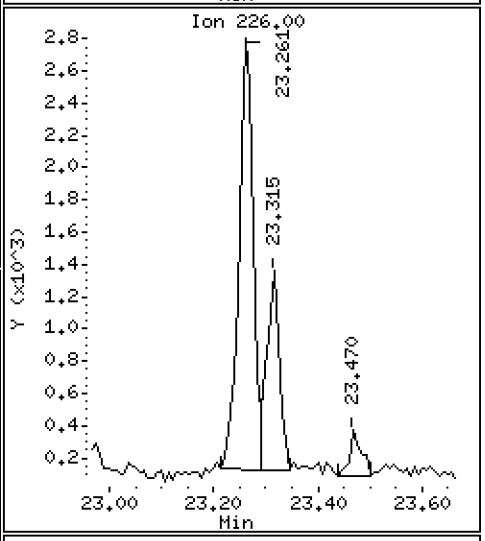
71 Chrysene

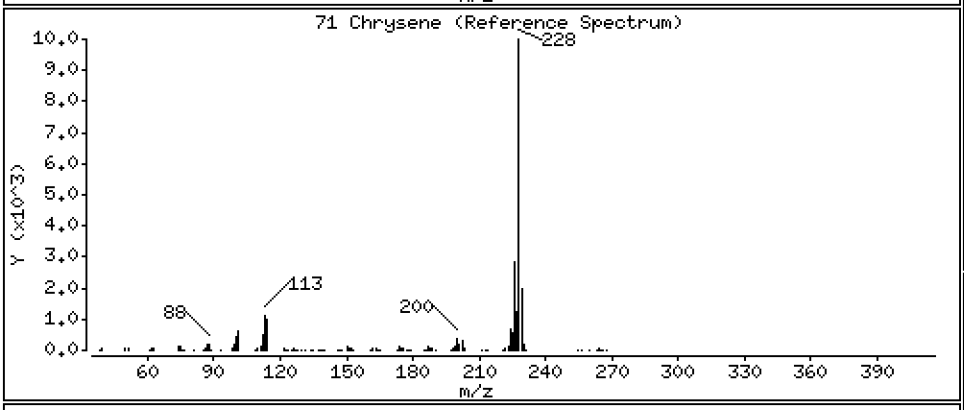
Concentration: 0.08044 ug/mL

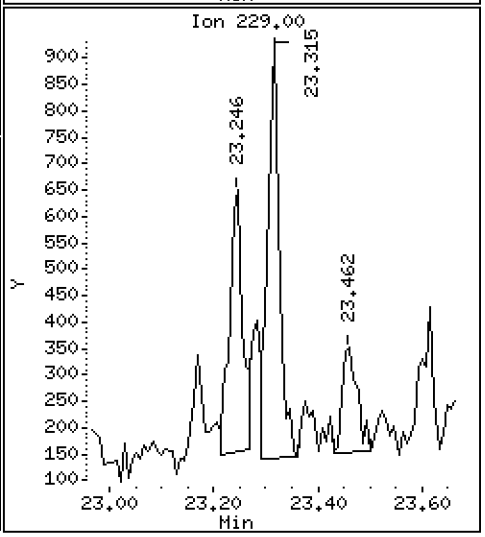


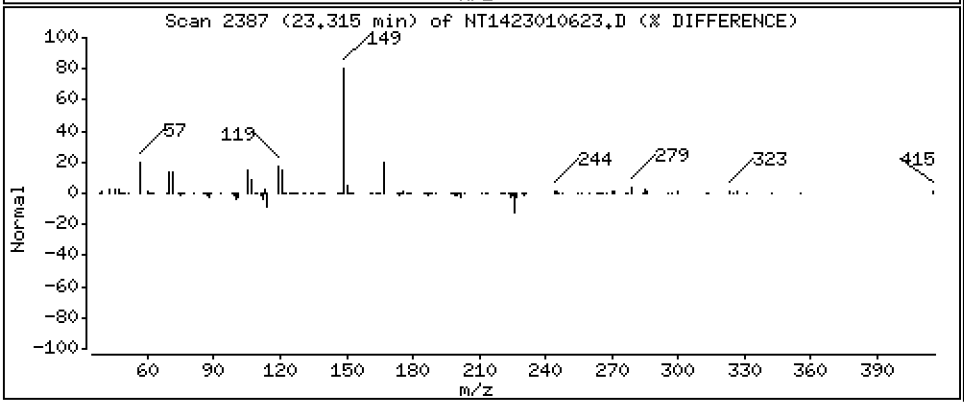












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

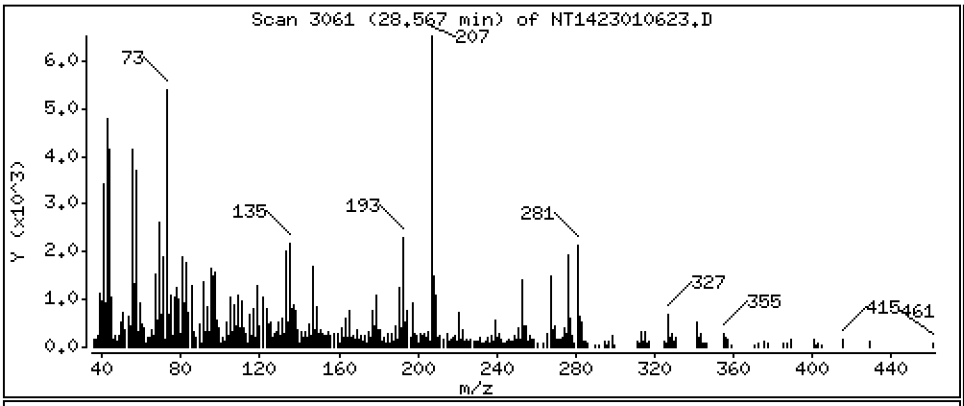
Operator: VTS

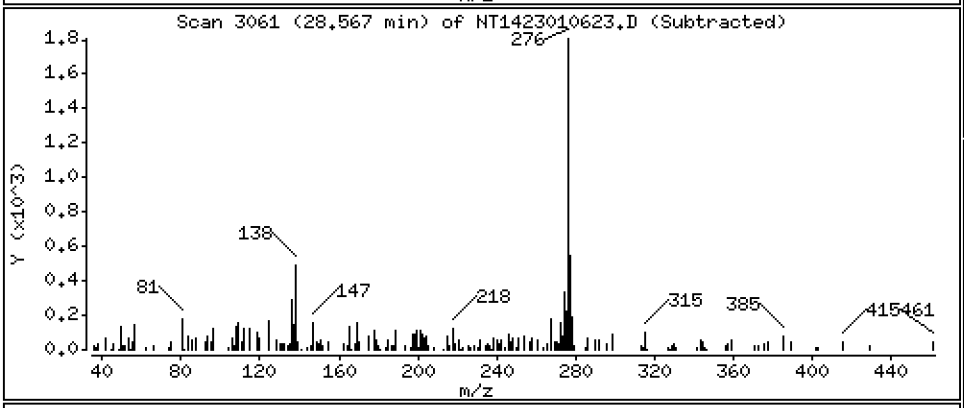
Column phase: ZB-5msi

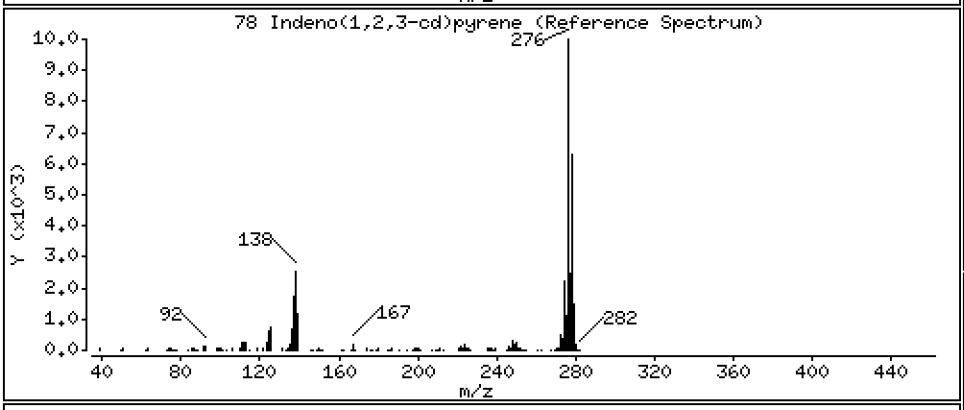
Column diameter: 0.25

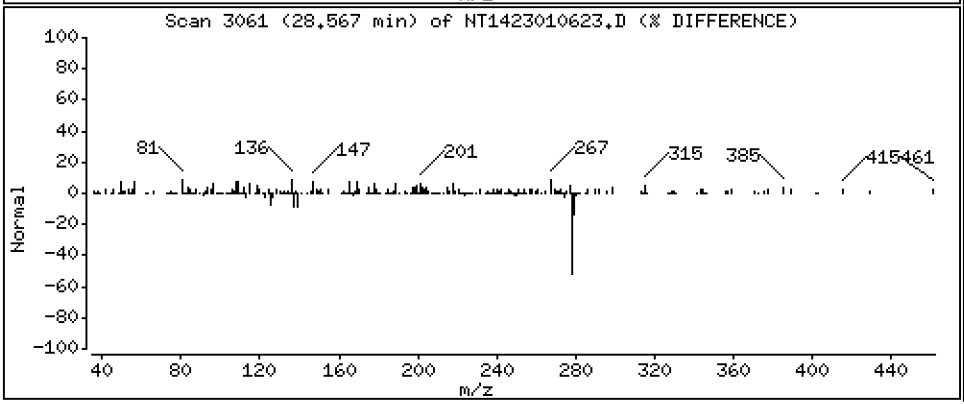
78 Indeno(1,2,3-cd)pyrene

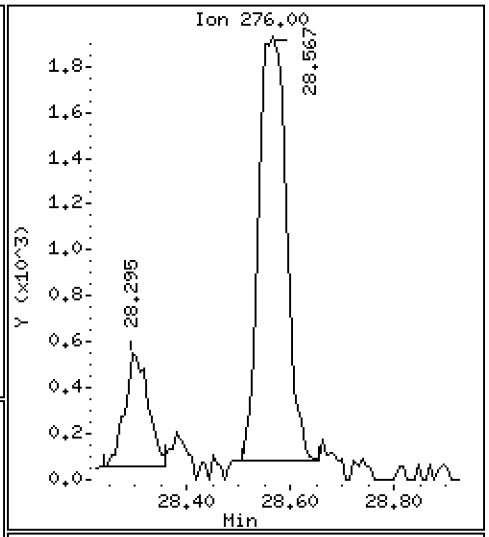
Concentration: 0.07784 ug/mL

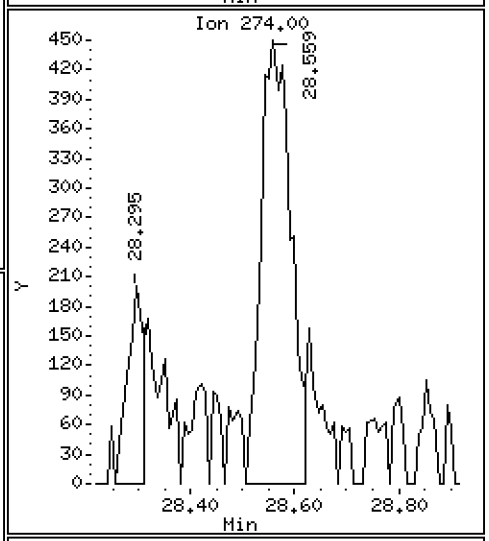


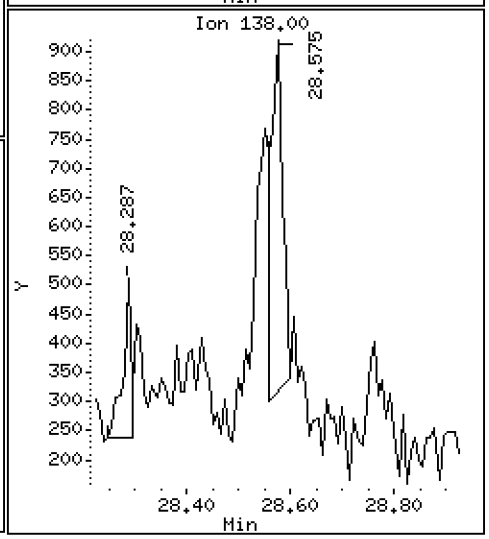












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

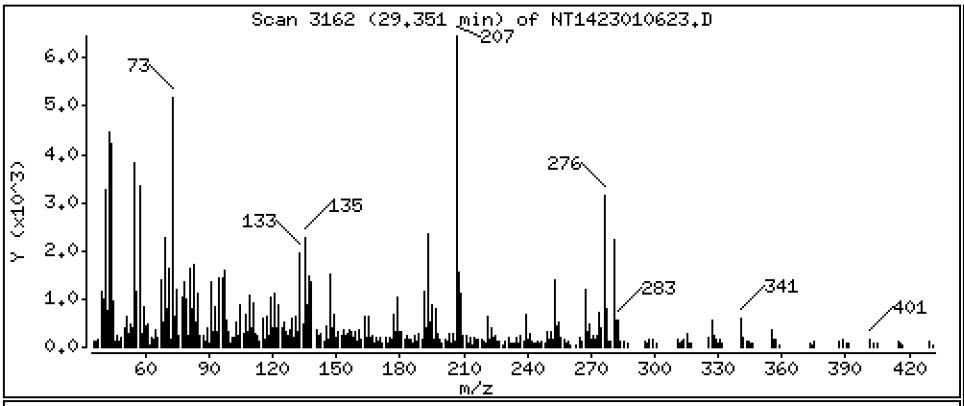
Operator: VTS

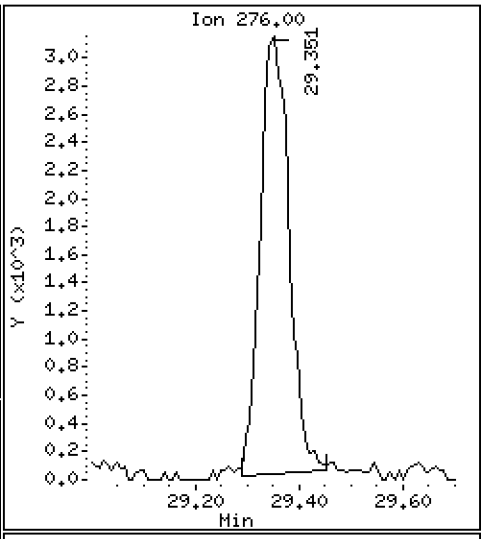
Column phase: ZB-5msi

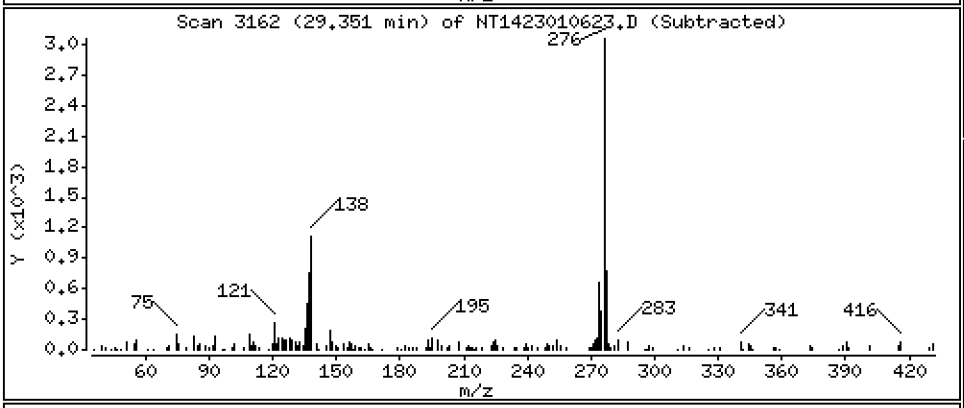
Column diameter: 0.25

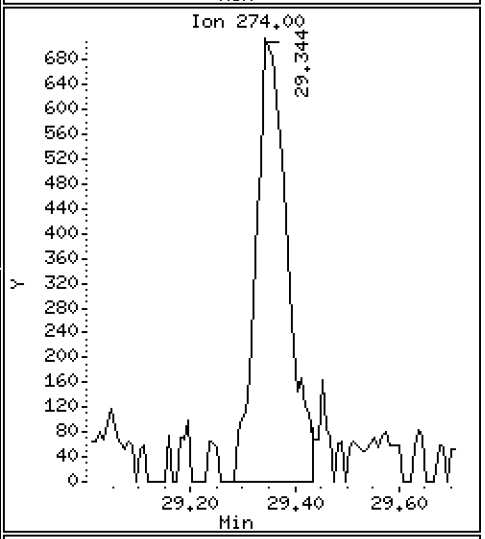
80 Benzo(g,h,i)perylene

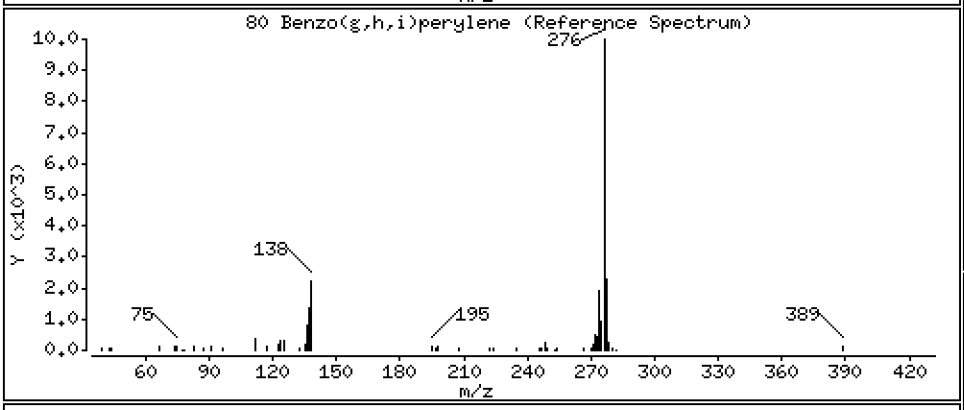
Concentration: 0.1640 ug/mL

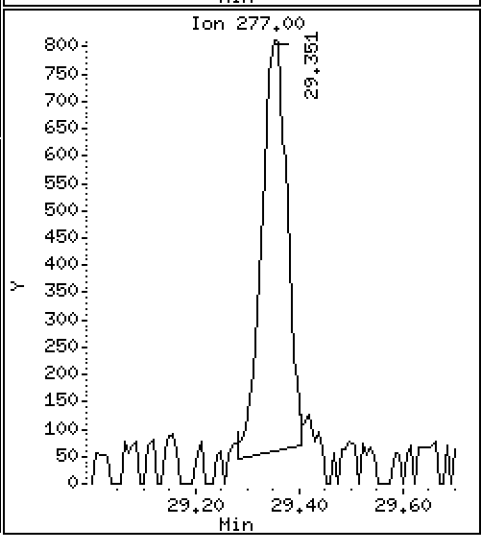


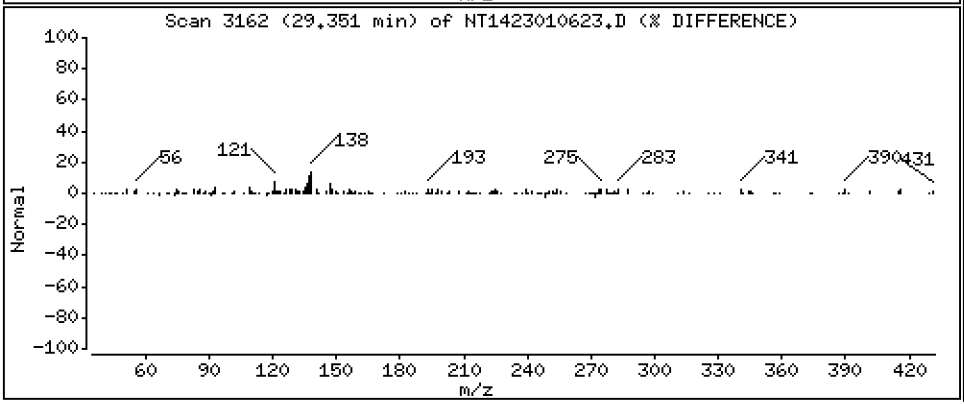












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

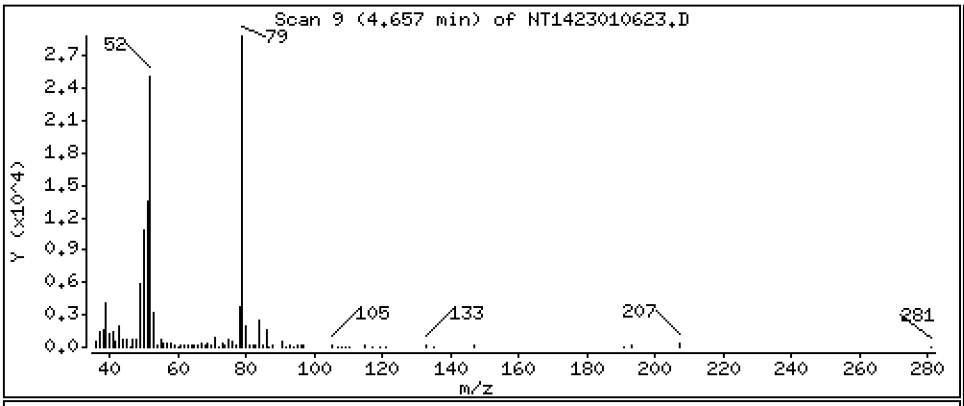
Operator: VTS

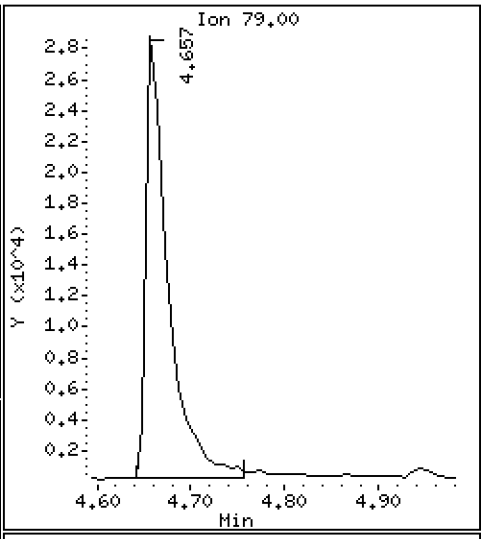
Column phase: ZB-5msi

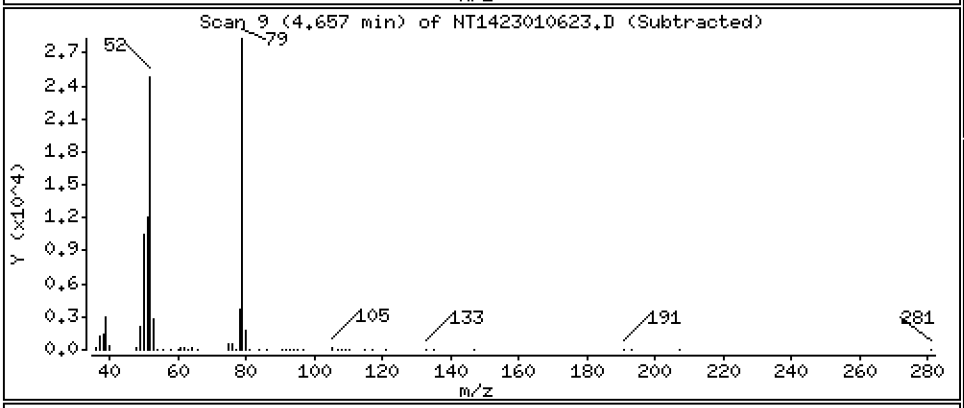
Column diameter: 0.25

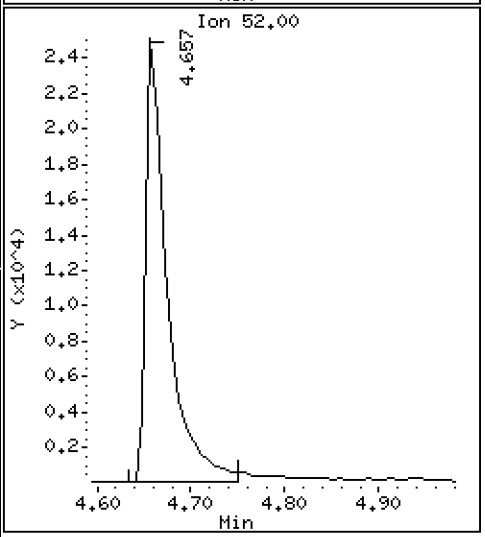
103 Pyridine

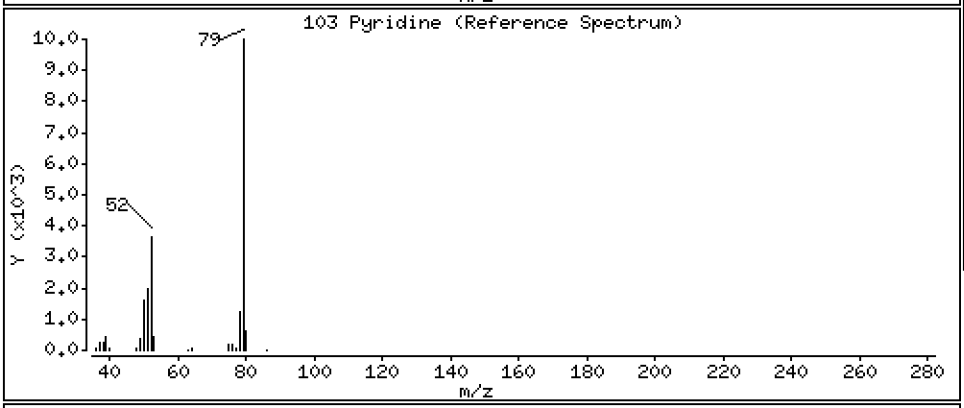
Concentration: 0.5338 ug/mL

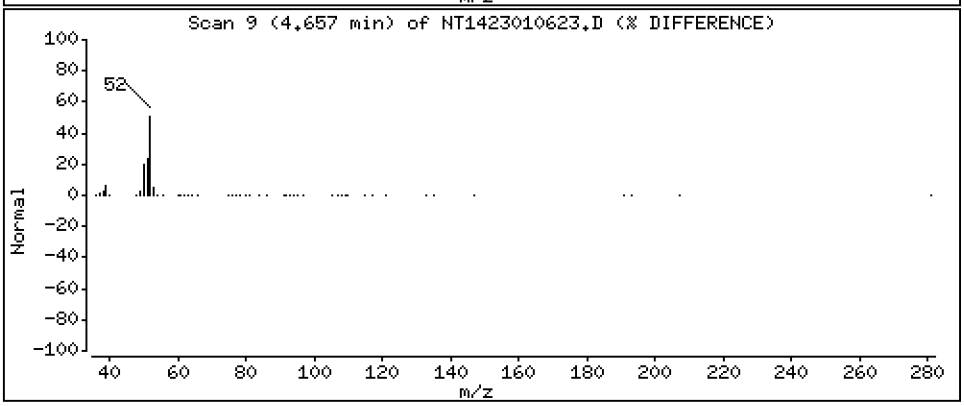












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Date : 07-JAN-2023 00:51

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-47

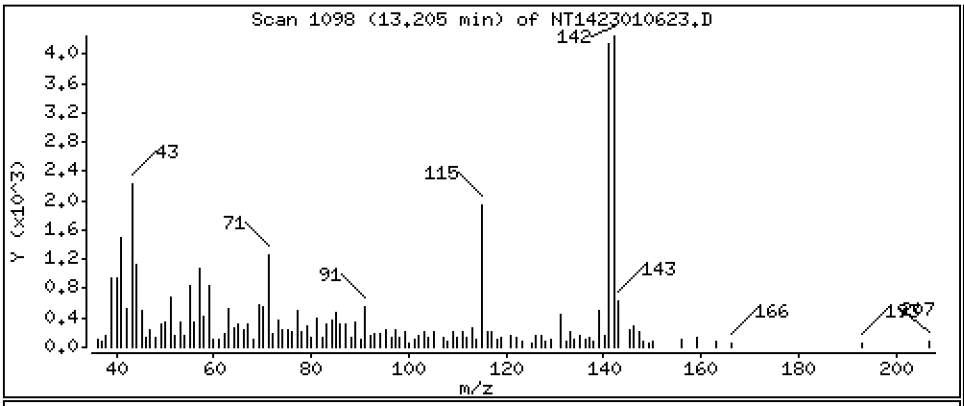
Operator: VTS

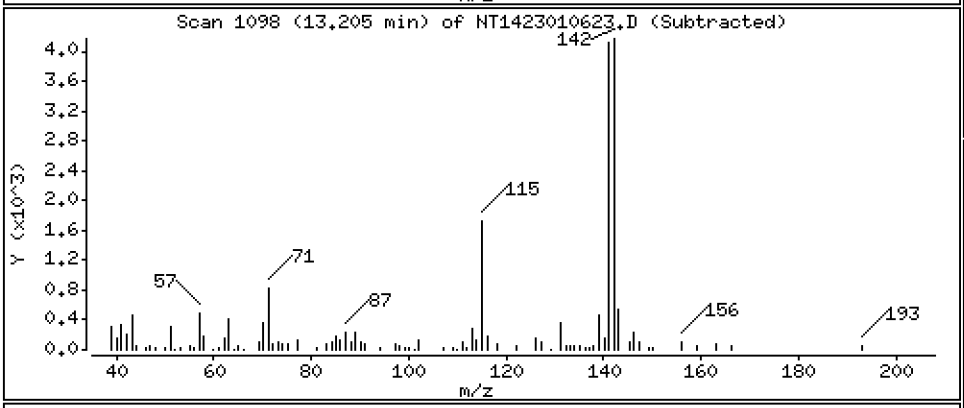
Column phase: ZB-5msi

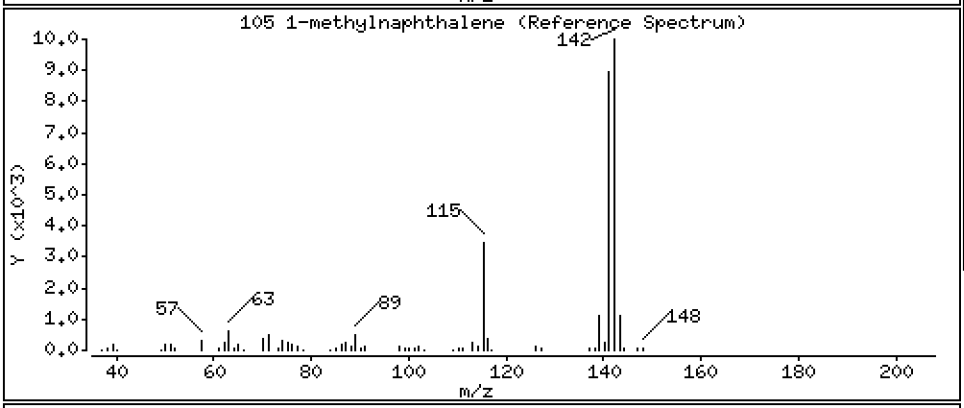
Column diameter: 0.25

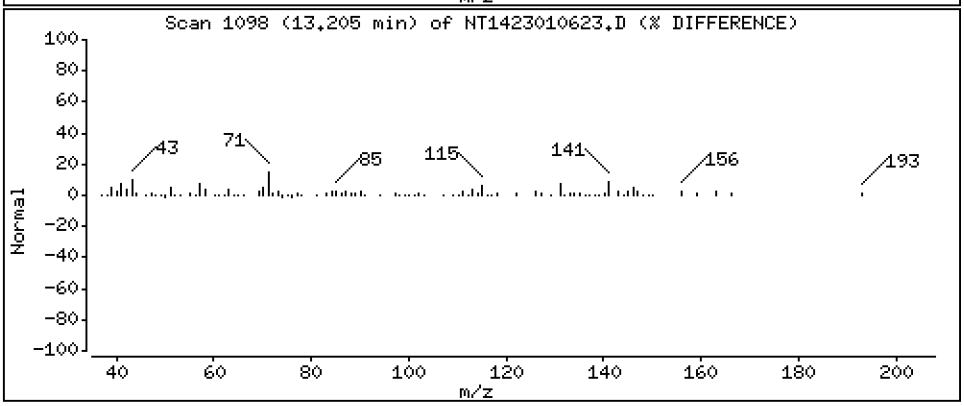
105 1-methylnaphthalene

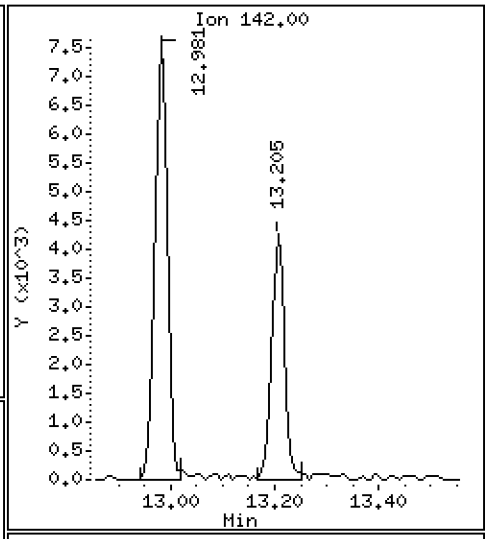
Concentration: 0.08727 ug/mL

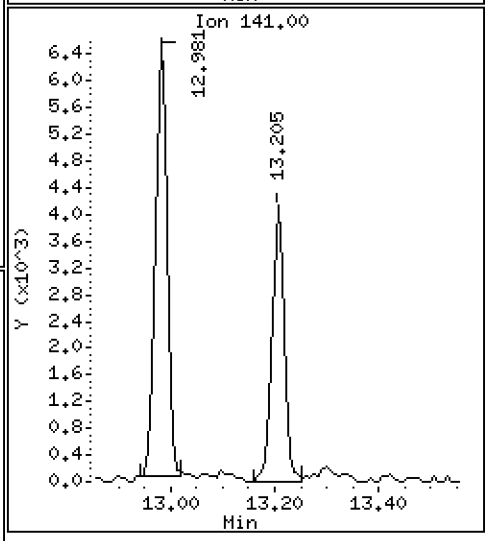












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010623.D
Lab Smp Id: 22L0246-47
Inj Date : 07-JAN-2023 00:51 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-47
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 20
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.818	6.811	(0.755)	204757	5.25119	5.251
$ 2	Phenol-d5	99	8.410	8.403	(0.931)	262610	5.44973	5.450
3	Phenol	94	Compound Not Detected.					
$ 5	2-Chlorophenol-d4	132	8.680	8.673	(0.961)	236023	5.83203	5.832
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.036	9.037	(1.000)	121710	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.040)	100567	3.63578	3.636
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	10.131	10.131	(0.878)	172240	4.48346	4.483
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.534	11.534	(1.000)	454938	4.00000	
28	Naphthalene	128	11.580	11.581	(1.004)	105485	0.94218	0.9422
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	12.980	12.981	(1.125)	11999	0.14611	0.1461
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	318161	4.27927	4.279
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	14.853	14.853	(0.979)	22243	0.23063	0.2306
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	221132	4.00000	
43	3-Nitroaniline	138	Compound Not Detected.					
44	Acenaphthene	153	15.232	15.240	(1.004)	3927	0.06565	0.06565
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	15.565	15.565	(1.026)	8552	0.09534	0.09534
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	16.129	16.137	(1.063)	13587	0.16029	0.1603
49	Fluorene	166	16.276	16.284	(1.073)	5582	0.05850	0.05850
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	Compound Not Detected.					
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	65869	6.15397	6.154
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	372454	4.00000	
60	Phenanthrene	178	18.261	18.269	(1.003)	41760	0.43003	0.4300
61	Anthracene	178	18.362	18.362	(1.008)	5222	0.05633	0.05633
62	Carbazole	167	Compound Not Detected.					
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	20.659	20.652	(0.888)	32622	0.38471	0.3847
65	Pyrene	202	21.085	21.077	(0.906)	39116	0.43873	0.4387
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	353891	5.59798	5.598
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	4624	0.05796	0.05796
* 69	Chrysene-d12	240	23.276	23.276	(1.000)	263356	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.315	23.315	(1.002)	6062	0.08044	0.08044
72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	512555	4.00000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	Compound Not Detected.					
75	Benzo(k)fluoranthene	252	Compound Not Detected.					
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	25.901	25.901	(1.000)	295140	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.566	28.574	(1.103)	6823	0.07784	0.07784
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	12042	0.16400	0.1640
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.656	4.633	(0.515)	45546	0.53375	0.5338
105	1-methylnaphthalene	142	13.205	13.205	(1.145)	6886	0.08727	0.08727
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010623.D
Lab Smp Id: 22L0246-47
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	121710	6.74
27 Naphthalene-d8	420653	210327	841306	454938	8.15
42 Acenaphthene-d10	216802	108401	433604	221132	2.00
59 Phenanthrene-d10	366121	183061	732242	372454	1.73
69 Chrysene-d12	276883	138442	553766	263356	-4.89
134 Di-n-octylphthala	540641	270321	1081282	512555	-5.19
77 Perylene-d12	308305	154153	616610	295140	-4.27

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	-0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.53	-0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	-0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	-0.00
69 Chrysene-d12	23.28	22.78	23.78	23.28	-0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	-0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010623.D

Lab ID: 22L0246-47
nt14.i, 20230106.b\ABN.m,   07-JAN-2023 00:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1423010619.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LDW22-IT809G

Form I

ORGANIC ANALYSIS DATA SHEET

EPA 8270E

Semivolatiles (20ug/kg - 0.2ug/L SepF)

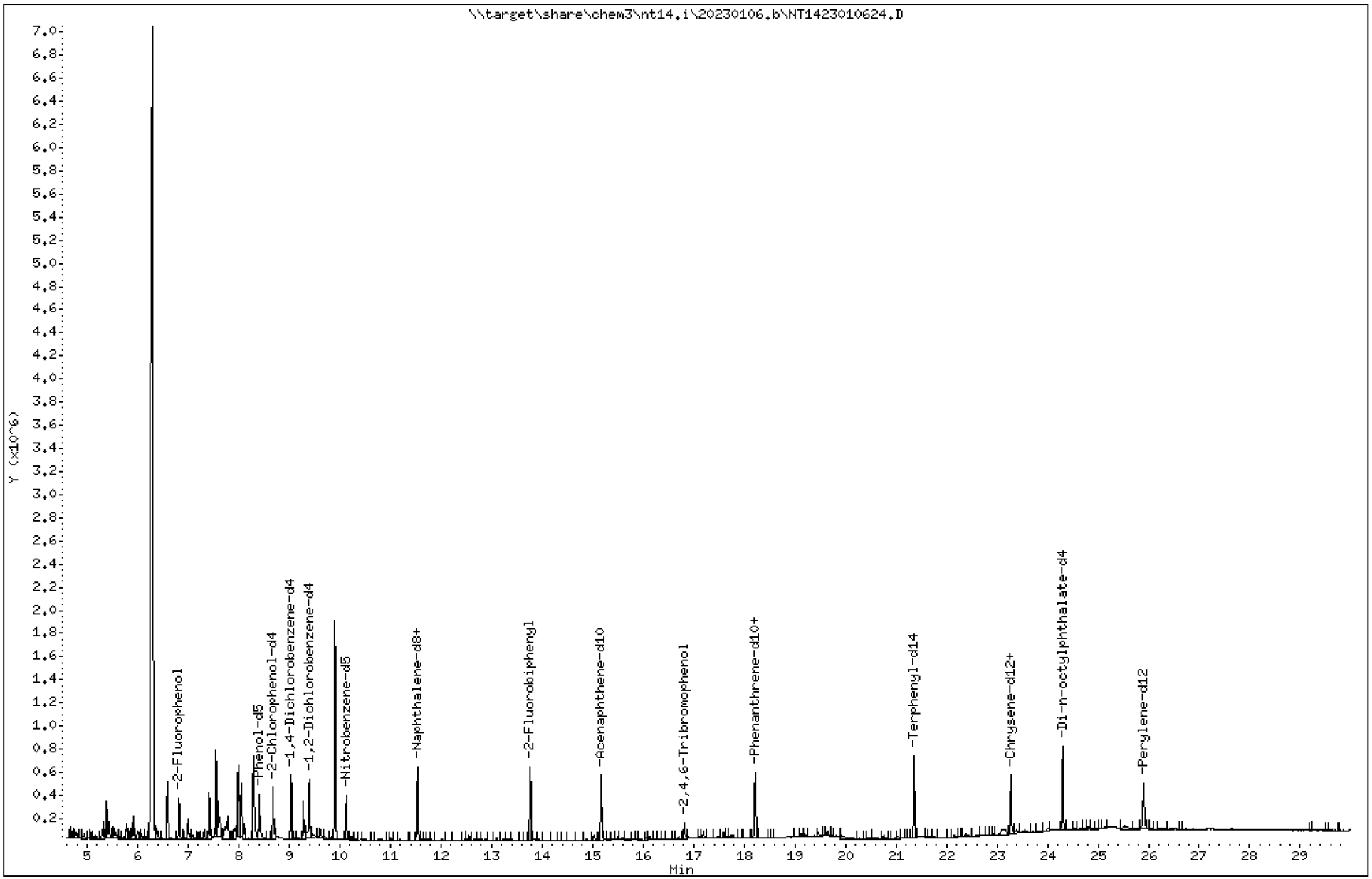
Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-48 C	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/27/22 11:08	File ID:	NT1423010624.D
% Solids:	91.65	Preparation:	EPA 3546 (Microwave)	Analyzed:	01/07/23 01:27
Batch:	BKL0585	Sequence:	SLA0068	Initial/Final:	10.97 g Wet / 1 mL
Instrument:	NT14	Column:	ZB-5MS	Calibration:	FL00066

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg dry)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	19.9	U	9.4	19.9

SURROGATES	ADDED: (ug/kg dry)	FOUND: (ug/kg dry)	% REC	QC LIMITS	Q
p-Terphenyl-d14	497.31	528	106	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D
Date : 07-JAN-2023 01:27
Client ID:
Sample Info: 22L0246-48

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D

Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

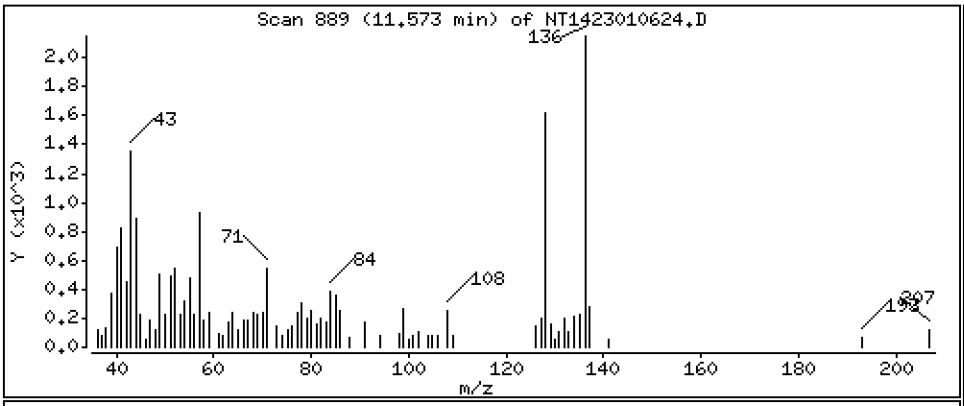
Operator: VTS

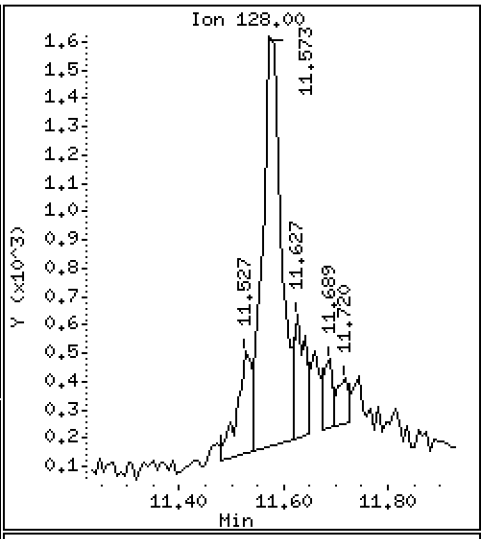
Column phase: ZB-5msi

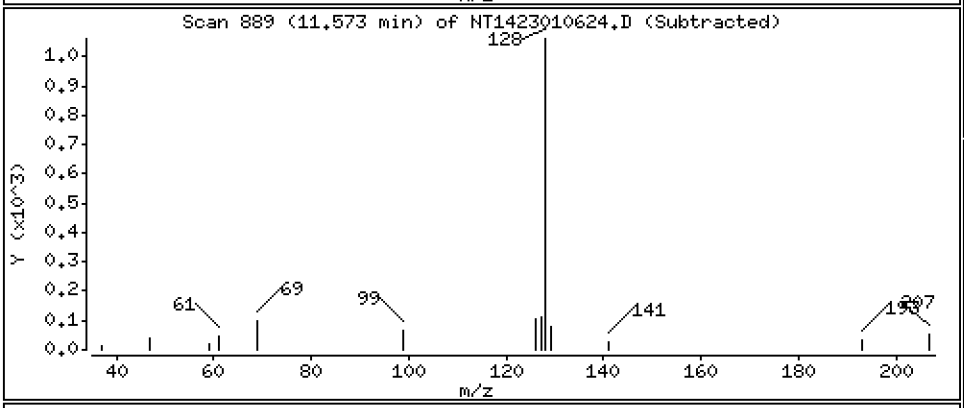
Column diameter: 0.25

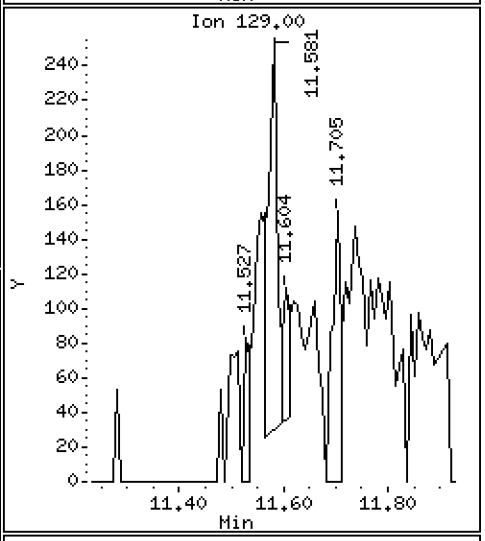
28 Naphthalene

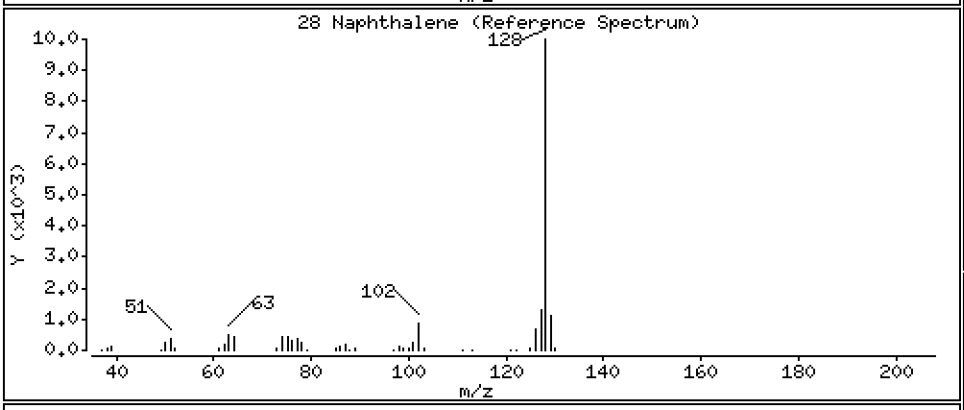
Concentration: 0.03182 ug/mL

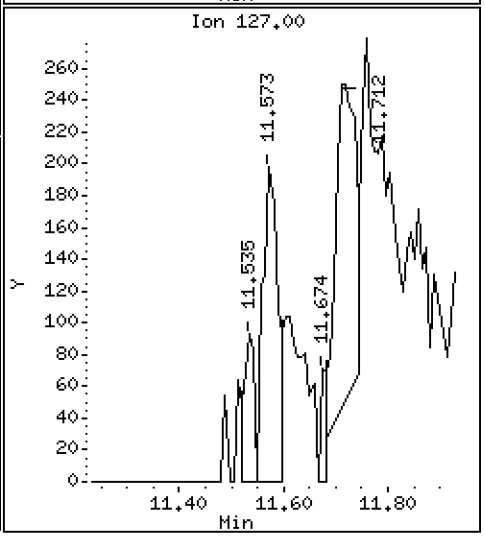


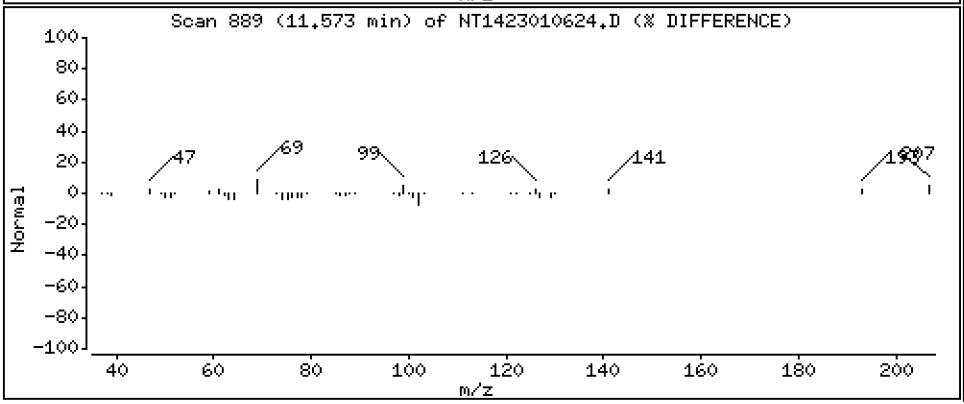












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D

Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

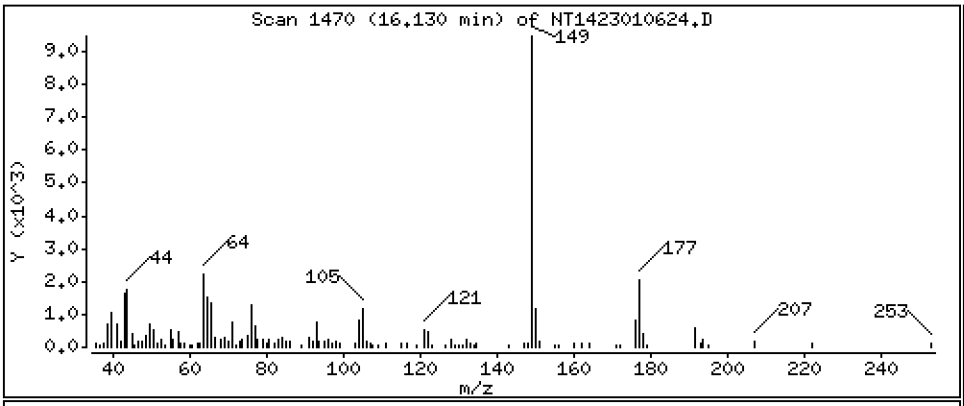
Operator: VTS

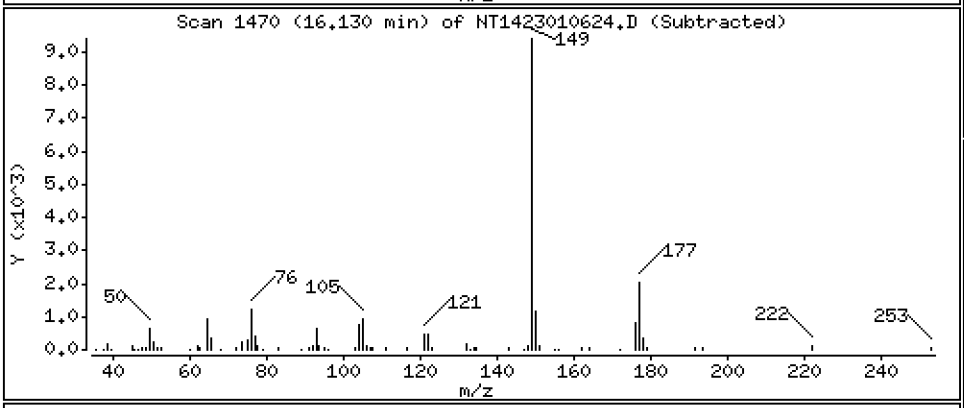
Column phase: ZB-5msi

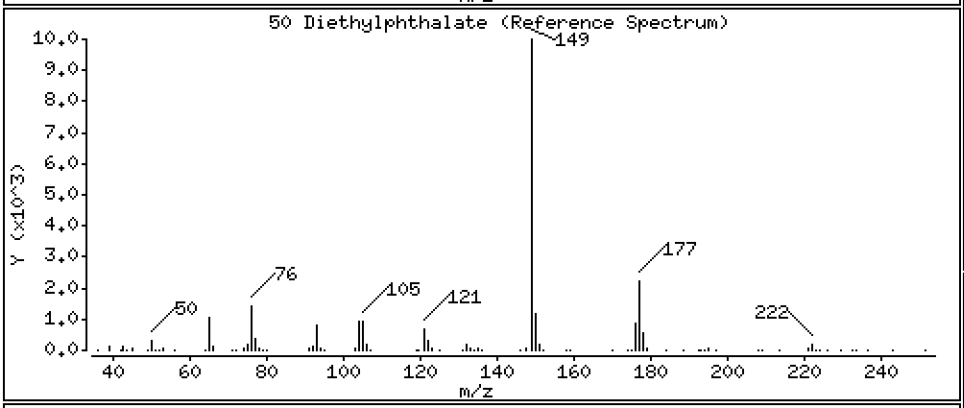
Column diameter: 0.25

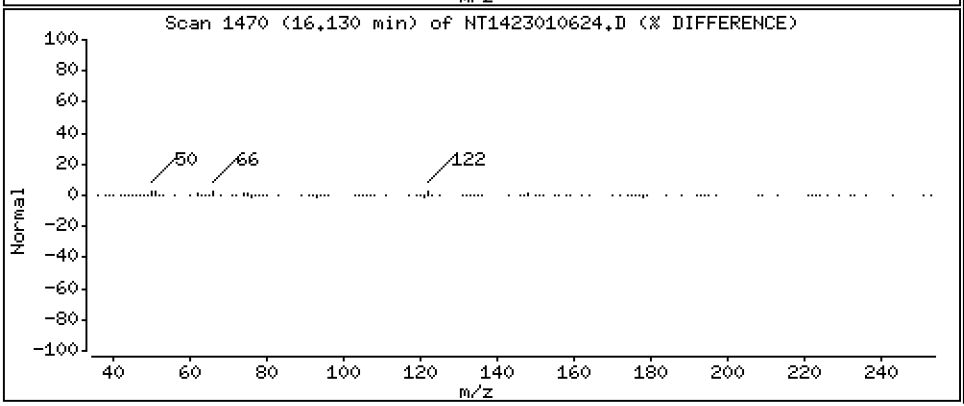
50 Diethylphthalate

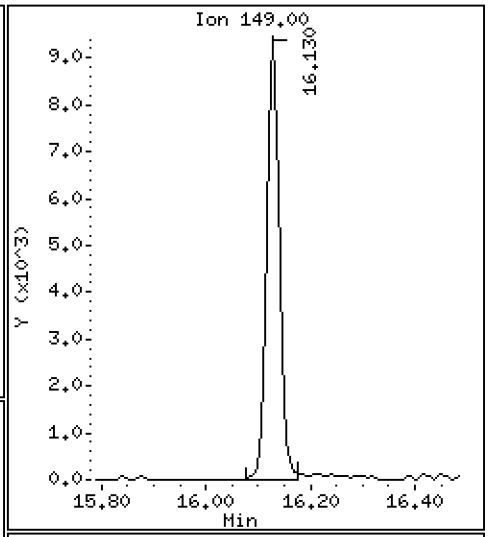
Concentration: 0.1768 ug/mL

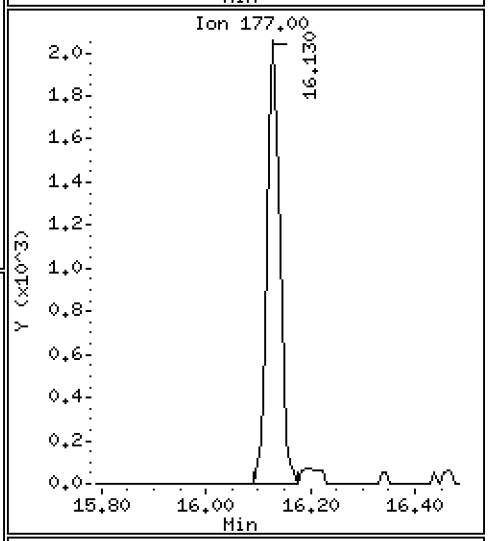


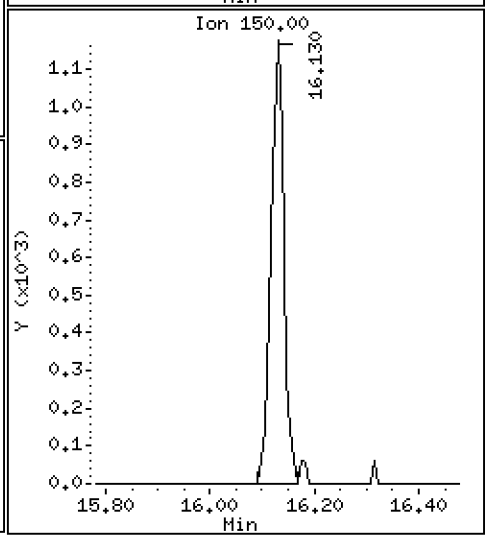












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D

Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

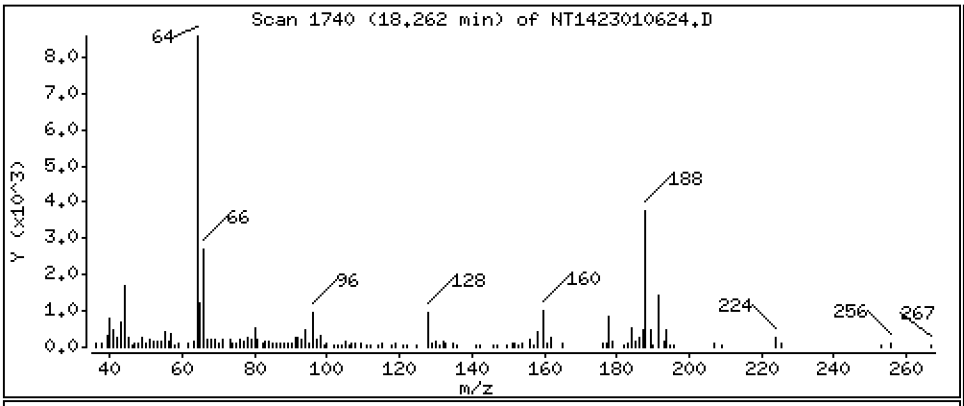
Operator: VTS

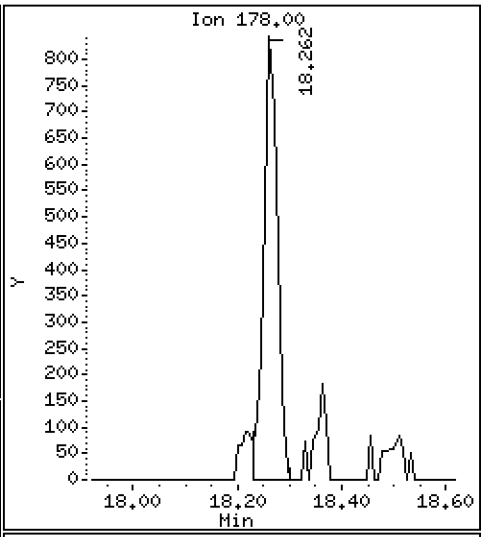
Column phase: ZB-5msi

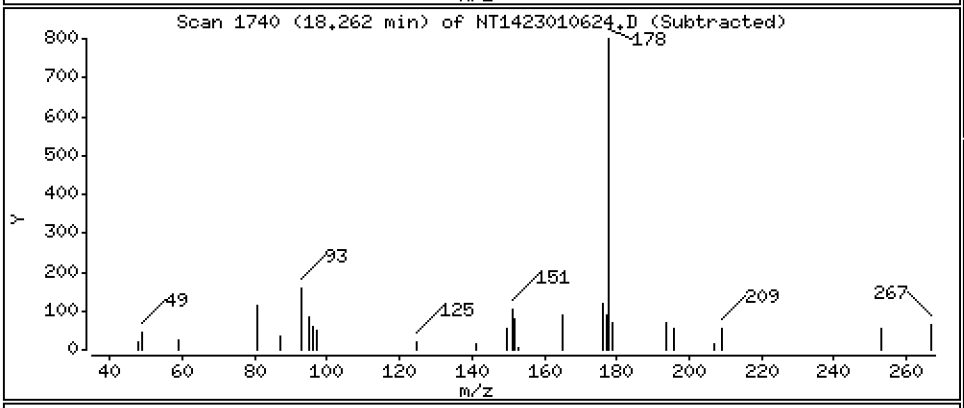
Column diameter: 0.25

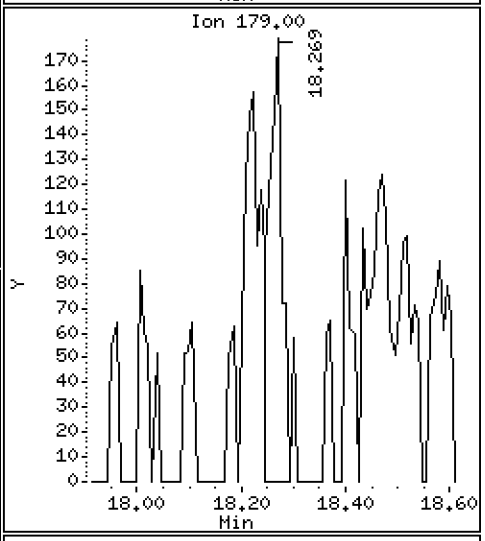
60 Phenanthrene

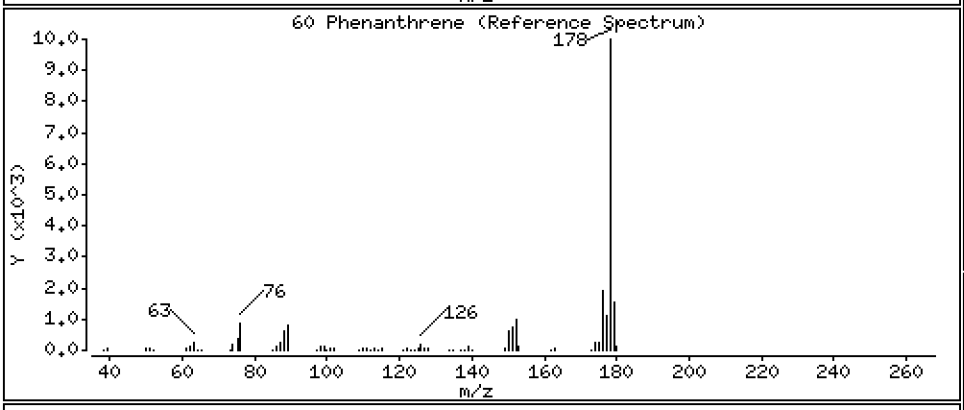
Concentration: 0.01484 ug/mL

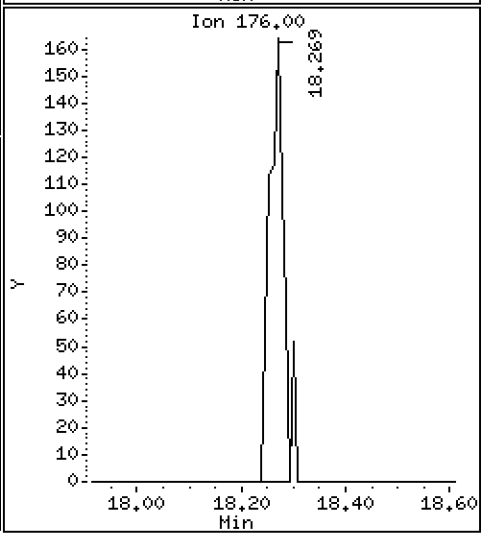


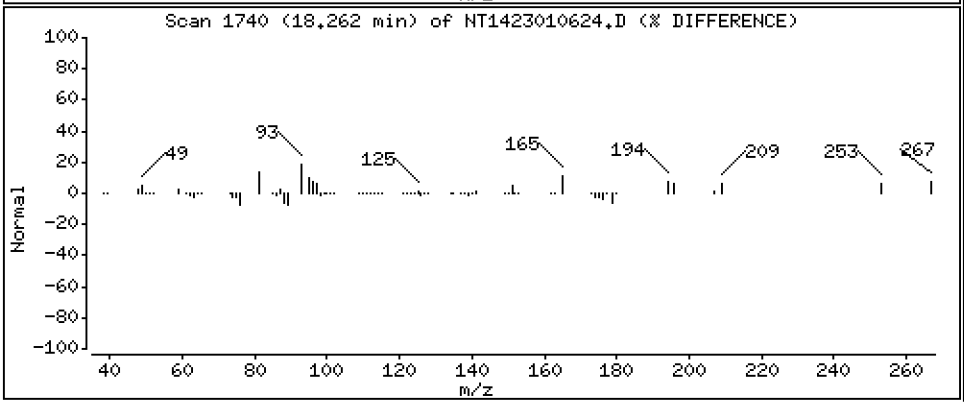












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Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

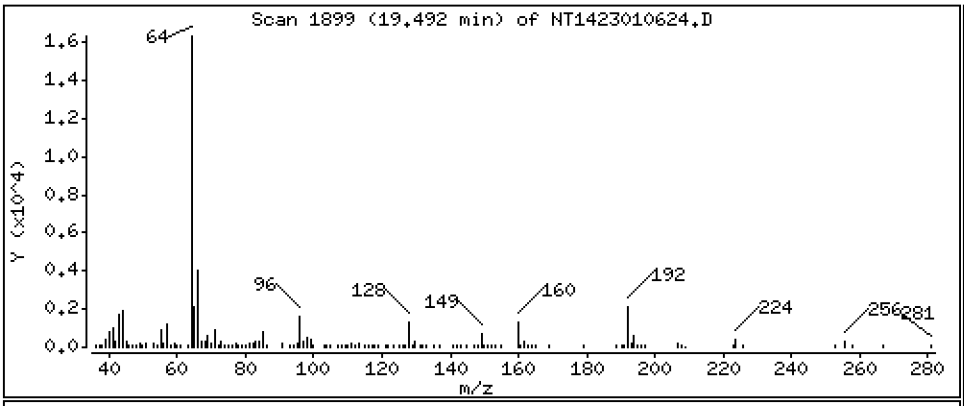
Operator: VTS

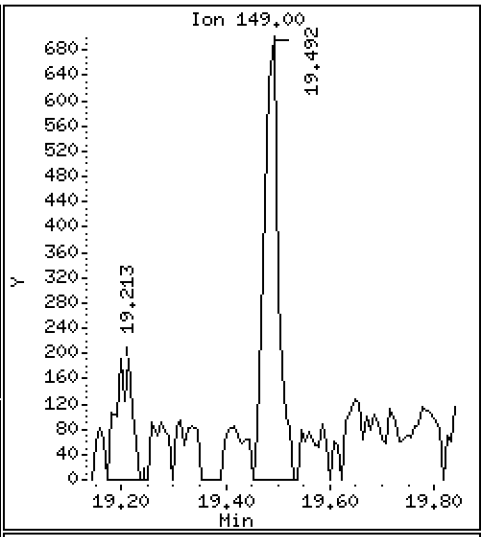
Column phase: ZB-5msi

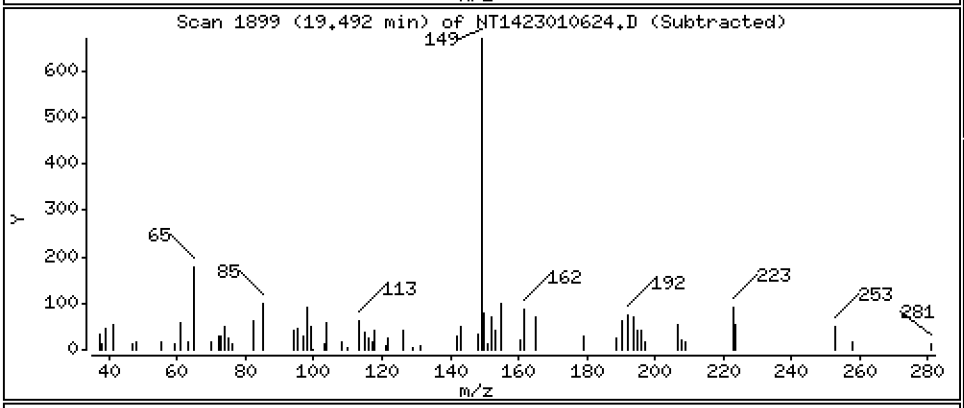
Column diameter: 0.25

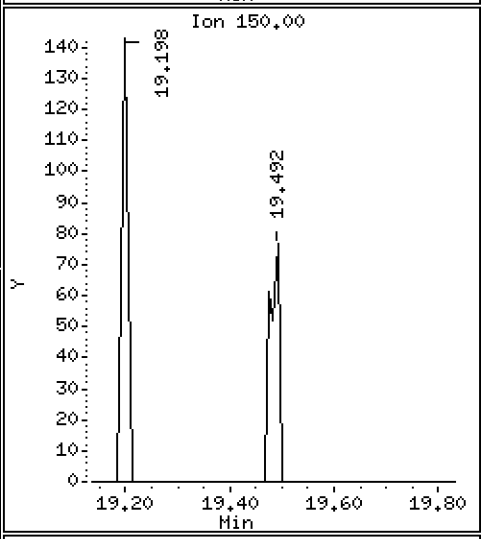
63 Di-n-butylphthalate

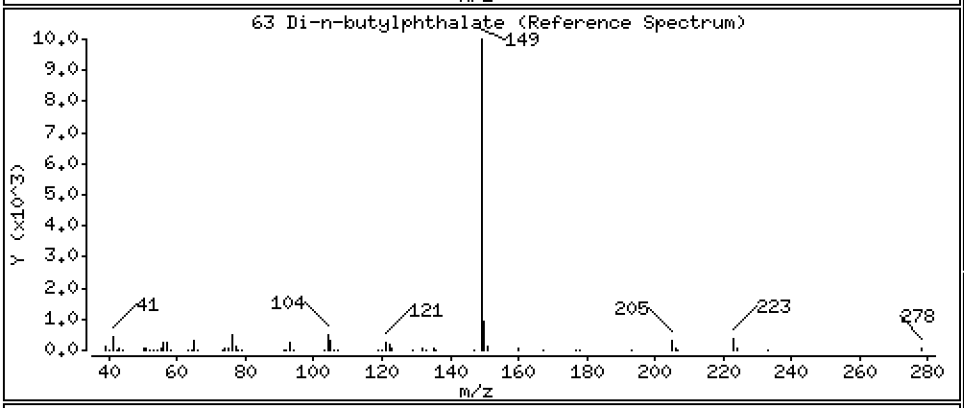
Concentration: 0.01241 ug/mL

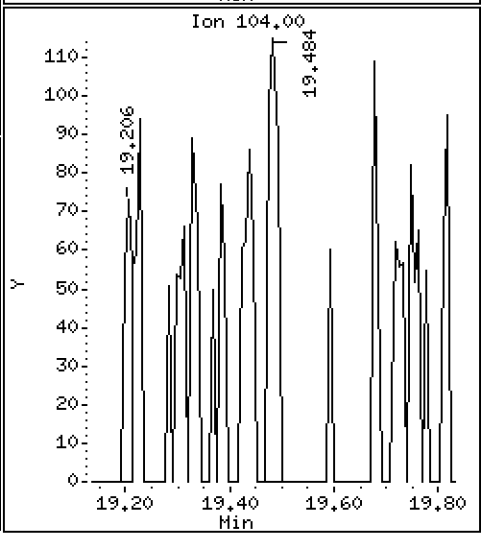


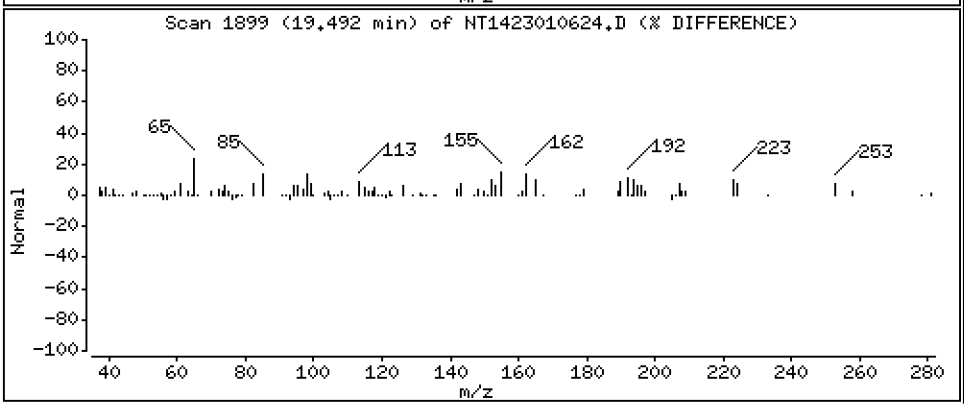












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D

Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

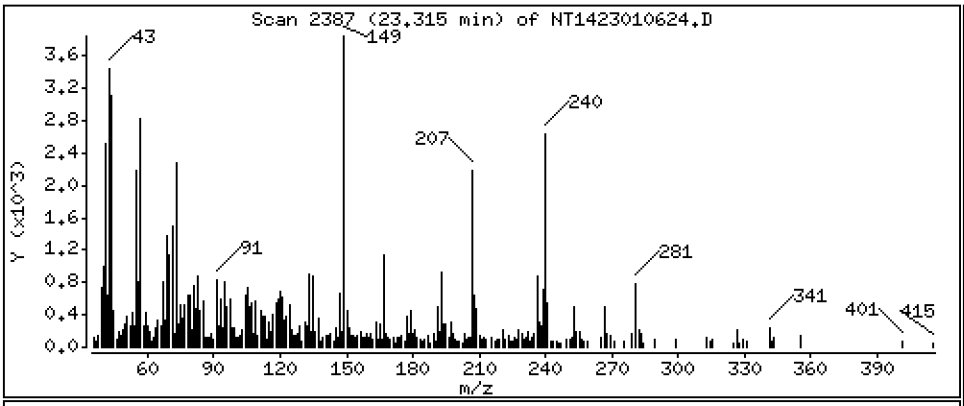
Operator: VTS

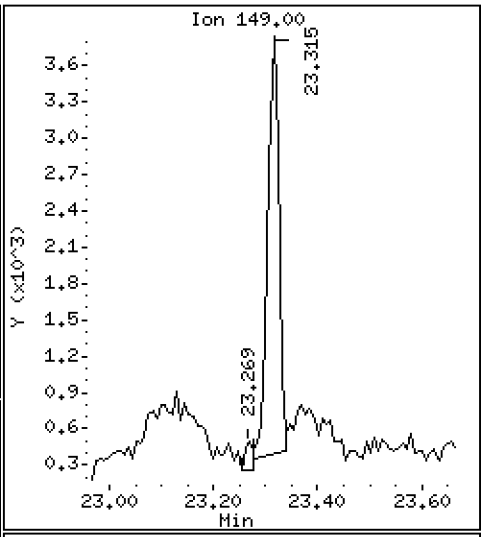
Column phase: ZB-5msi

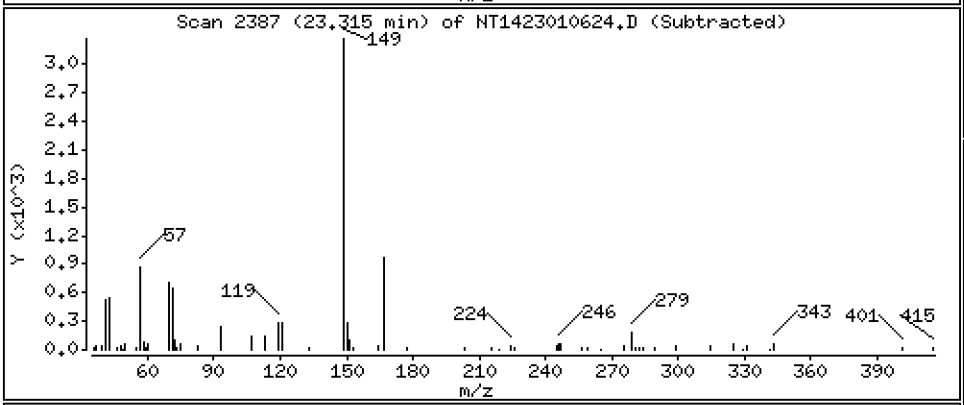
Column diameter: 0.25

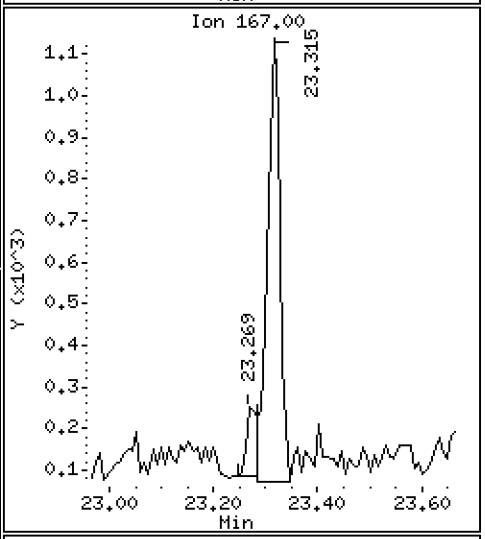
72 bis(2-Ethylhexyl)phthalate

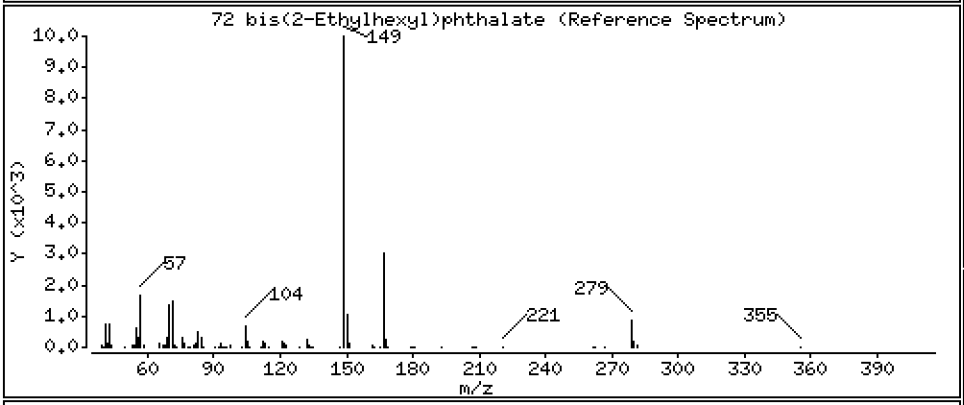
Concentration: 0.08589 ug/mL

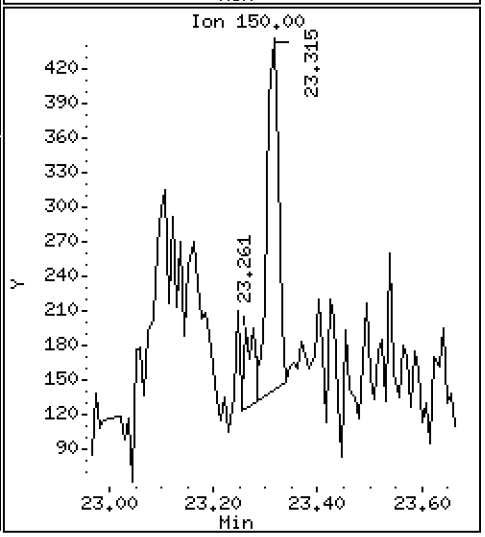


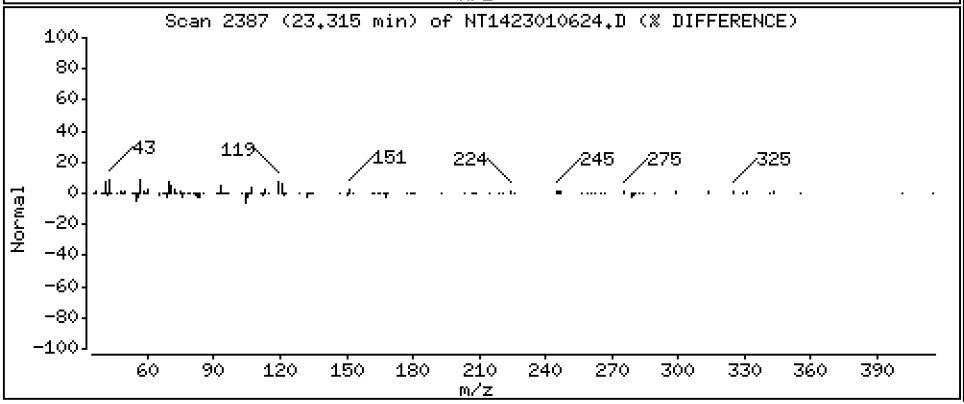












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D

Date : 07-JAN-2023 01:27

Client ID:

Instrument: nt14.i

Sample Info: 22L0246-48

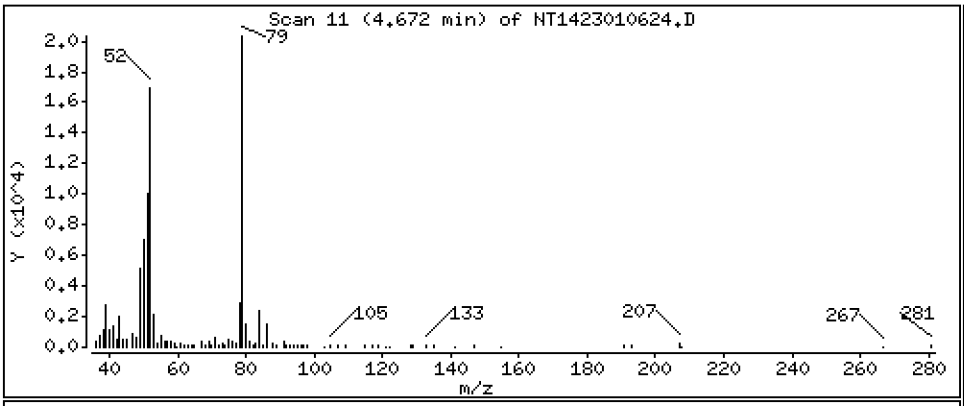
Operator: VTS

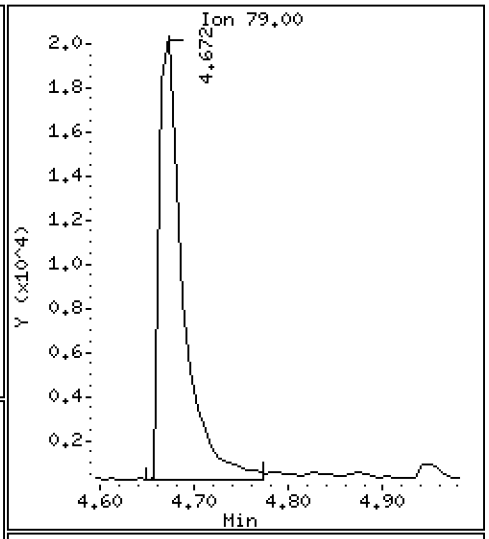
Column phase: ZB-5msi

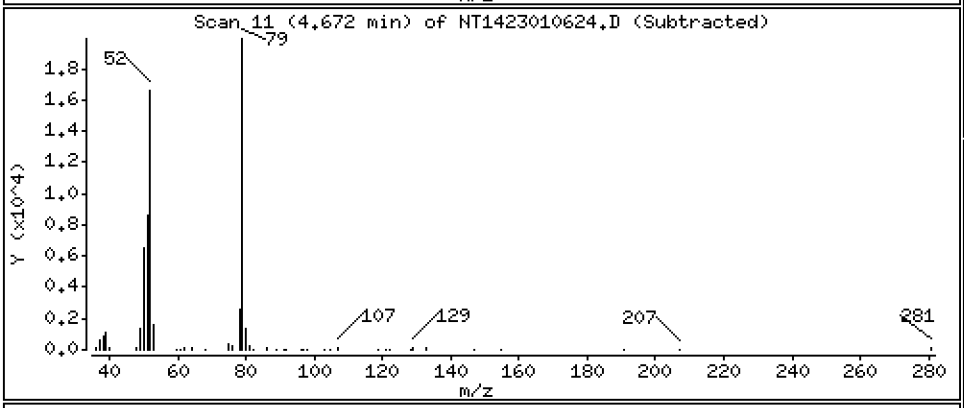
Column diameter: 0.25

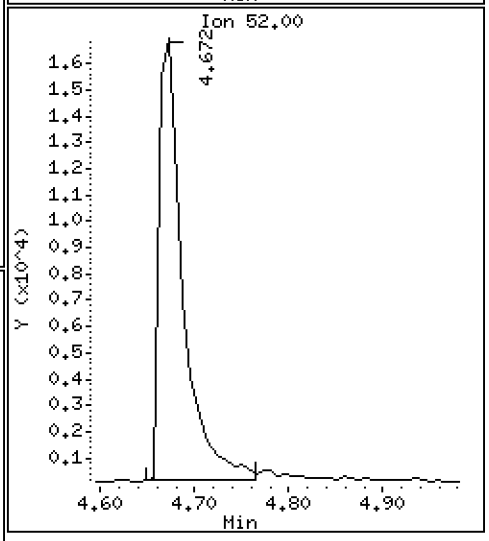
103 Pyridine

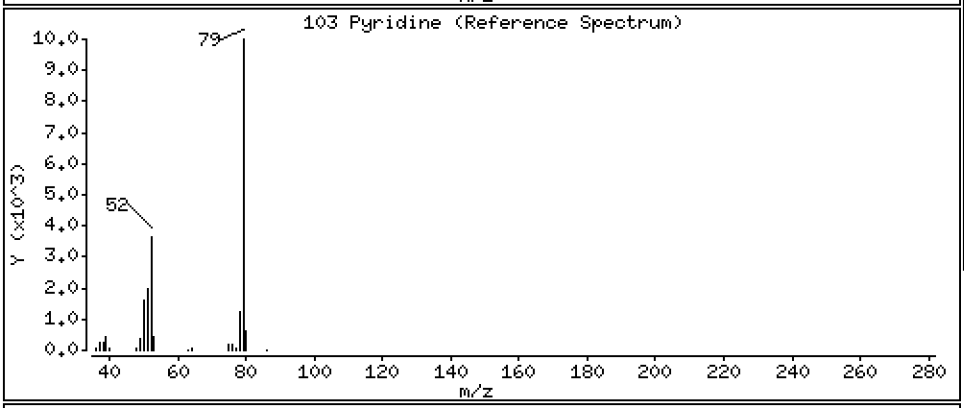
Concentration: 0.4024 ug/mL

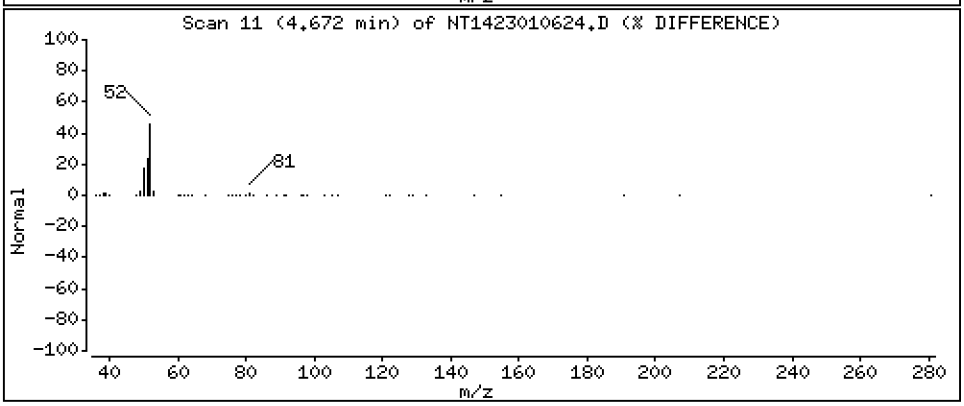












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010624.D
Lab Smp Id: 22L0246-48
Inj Date : 07-JAN-2023 01:27 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : 22L0246-48
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 21
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.818	6.811	(0.755)	151905	3.79515	3.795
$ 2	Phenol-d5	99	8.410	8.403	(0.931)	254104	5.13705	5.137
3	Phenol	94	Compound Not Detected.					
$ 5	2-Chlorophenol-d4	132	8.681	8.673	(0.961)	194731	4.68748	4.687
4	Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	124936	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.040)	110815	3.90282	3.903
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	Compound Not Detected.					
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	10.131	10.131	(0.878)	189045	4.87707	4.877
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.534	11.534	(1.000)	459026	4.00000	
28	Naphthalene	128	11.573	11.581	(1.003)	3594	0.03182	0.03182
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	Compound Not Detected.					
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	329231	4.42378	4.424
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	221351	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.129	16.137	(1.063)	15002	0.17681	0.1768
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	22348	2.13321	2.133
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	378068	4.00000	
	60	Phenanthrene	178	18.261	18.269	(1.003)	1463	0.01484	0.01484
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	19.491	19.491	(1.070)	1273	0.01241	0.01241
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	339843	5.30453	5.305
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.276	23.276	(1.000)	266893	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	4892	0.08589	0.08589
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	512852	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.901	25.901	(1.000)	296243	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.672	4.633	(0.517)	35248	0.40240	0.4024
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010624.D
Lab Smp Id: 22L0246-48
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	124936	9.57
27 Naphthalene-d8	420653	210327	841306	459026	9.12
42 Acenaphthene-d10	216802	108401	433604	221351	2.10
59 Phenanthrene-d10	366121	183061	732242	378068	3.26
69 Chrysene-d12	276883	138442	553766	266893	-3.61
134 Di-n-octylphthala	540641	270321	1081282	512852	-5.14
77 Perylene-d12	308305	154153	616610	296243	-3.91

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.53	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.28	22.78	23.78	23.28	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010624.D

Lab ID: 22L0246-48
nt14.i, 20230106.b\ABN.m,   07-JAN-2023 01:27

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1423010619.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0489 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810B	22L0246-08	NT1023010508.D	12/20/22 11:22	
LDW22-IT810C	22L0246-09	NT1023010509.D	12/20/22 11:22	
LDW22-IT810B-FD	22L0246-10	NT1023010510.D	12/20/22 11:22	
LDW22-IT810D	22L0246-11	NT1023010513.D	12/20/22 11:22	
LDW22-IT810E	22L0246-12	NT1023010514.D	12/20/22 11:22	
LDW22-IT810F	22L0246-13	NT1023010515.D	12/20/22 11:22	
LDW22-IT810G	22L0246-14	NT1023010516.D	12/20/22 11:22	
Blank	BKL0489-BLK1	NT1023010504.D	12/20/22 11:22	
LCS	BKL0489-BS1	NT1023010505.D	12/20/22 11:22	
LCS Dup	BKL0489-BSD1	NT1023010506.D	12/20/22 11:22	
LDW22-IT810B-FD	BKL0489-MS1	NT1023010511.D	12/20/22 11:22	
LDW22-IT810B-FD	BKL0489-MSD1	NT1023010512.D	12/20/22 11:22	
Reference	BKL0489-SRM1	NT1023010517.D	12/20/22 11:22	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0489

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

Matrix: Solid Date Prepared: 12/20/22 Balance ID: B146462614 Set Up By: CRD 12/19/22

WO Comments

22L0155: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)
22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
39	Benzidine Spike
QLS 14	QLS Spike (Freezer)

Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) (1) 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0155-56 B	56.2	(17.79) 17.80	(1:1)	1mL	1	0.5	
22L0246-08 C	63.5	(15.74) 15.81	(1:1)	1mL	1	0.5	
22L0246-09 C	59.2	(16.88) 16.89	(1:1)	1mL	1	0.5	
22L0246-10 C	65.2	(15.33) 15.35	(1:1)	1mL	1	0.5	
22L0246-11 C	59.9	(16.68) 16.68	(1:1)	1mL	1	0.5	
22L0246-12 C	54.6	(18.33) 18.33	(1:1)	1mL	1	0.5	
22L0246-13 C	53.6	(18.67) 18.71	(1:1)	1mL	1	0.5	
22L0246-14 C	64.1	(15.61) 15.64	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) (1) 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0489-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0489-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0489-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0489-MS1	65.2	(15.33) 15.33	(1:1)	1mL	1	0.5	Use 22L0246-10
BKL0489-MSD1	65.2	(15.33) 15.33	(1:1)	1mL	1	0.5	Use 22L0246-10
BKL0489-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1	0.5	Use K000573

+1g DI WATER

12/20/22
Client ID verified By Date

NRB 12/30/22
Preparation Reviewed By Date

12/20/22 11:22
Extraction Date and Time

Printed: 12/19/2022 3:00:42PM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0489

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

WO Comments

22L0155: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps	Reagents Used	
Microwave 1 2 3 CJ 12/20/22 Analyst/Date	**Station/Reagent**	**Standard ID**
	Microwave **Analyst:** CJ **Date:** 12/20/22	
	Anhydrous Sodium Sulfate	KΦ1562
	1:1 Methylene Chloride/Acetone	KΦ1Φ579
	Methylene Chloride	KΦ1Φ561
	Pre-Deactivated Glass Wool	KΦ1Φ197
Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD) 0 2 4 5 6 CJ 12/21/22 Analyst/Date	**Pre GPC KD** **Analyst:** CJ **Date:** 12/21/22	
	Pre-Deactivated Glass Wool	N/A
	Anhydrous Sodium Sulfate	N/A
	Methylene Chloride	KΦ1ΦJ61
	Hexane	KΦ11373
TurboVap Pre GPC 1 2 3 4 5 AA 12-27-22 Analyst/Date	**GPC Filter Prep** **Analyst:** AA **Date:** 12-27-22	
	Methylene Chloride	KΦΦ5941
Post GPC KD 80-85°C 0 2 4 5 6 CJ 12/29/22 Analyst/Date	**GPC** **Analyst:** AA **Date:** 12-27-22	
	Methylene Chloride	KΦΦ5941
	GPC Calibration File	CKKΦ217-GPC2
TurboVap 1 2 3 4 5 NKB 12/30/22 Analyst/Date	**Post GPC KD** **Analyst:** CJ **Date:** 12/29/22	
	Methylene Chloride	KΦΦ5942
Water Wash NKB 12/30/22 Analyst/Date	**Vialing** **Analyst:** NKB **Date:** 12/30/22	
	Methylene Chloride	KΦΦ7902

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A K010466 Exp Date: 5/9/2023	50µL	CJ	✓
Full List Spike (Freezer) 100µg/mL	7 K011369 (V) Exp Date: KΦ11297 2/3/2023	50µL	CJ	✓
Base Spike 200µg/mL	56 K011369 (V) Exp Date: KΦΦ3759 4/19/2023	50µL	CJ	✓
Acid Spike 100/200µg/mL	38 K011369 (V) Exp Date: KΦΦ3760 4/19/2023	50µL	CJ	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0489

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

WO Comments

22L0155: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)
22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool. 7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using 1:1 DCM/ACE. 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD: Add 10 mL Hexane directly to extract in the KD. 12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL. 13. Vialers to take 1:5 Split Pre- GPC. 14. (After GPC): KD at 80°C. 15. TurboVap to 1mL in DCM. 16. WATER WASH REQUIRED: 16a. Vial 1mL of all extracts in 2mL amber vials in DCM. 16b. Add ~0.5mL DI water and vortex for ~5 seconds each. 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm. 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial). 17. Archive water wahed vials and deliever new vials to GC Department for analysis. A. Need Total Solids Y / [N] B. Archive/Freeze [Y] / N	

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch BKL0489

Total Solids Batch: BKL0230 Work Order(s): 22L0155 41-60

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 41-58	CR 12/13/22
[X] Standing Water Decanted (Not shared)= 42,43,45,47,48,52,55-60,54	CR 12/13/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[X] Oily, obvious fuel/sulfur odors= 59,60	CR 12/13/22
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[ ] Previously Frozen =	
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 12/13/22
[X] Multiple Jars Y / (N)	CR 12/13/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SVOA Extraction Batch: BKL0489

Total Solids Batch: BKL0405 Work Order(s): 22L0246 01-20

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= #1,#7,#8,#9,10,14,15,16,17,18,19,20	SH 12/16/22
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☒ Clay/Clumps (Difficult to homogenize)= #2,#3,#4,#5,#6,11,12,13	SH 12/16/22
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / N	12/16/22 SH
☒ Multiple Jars Y / N	SH 12/16/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : BKL0489-BLK

Method : BAN_Method_GPC1

Description : GPC1- BAN

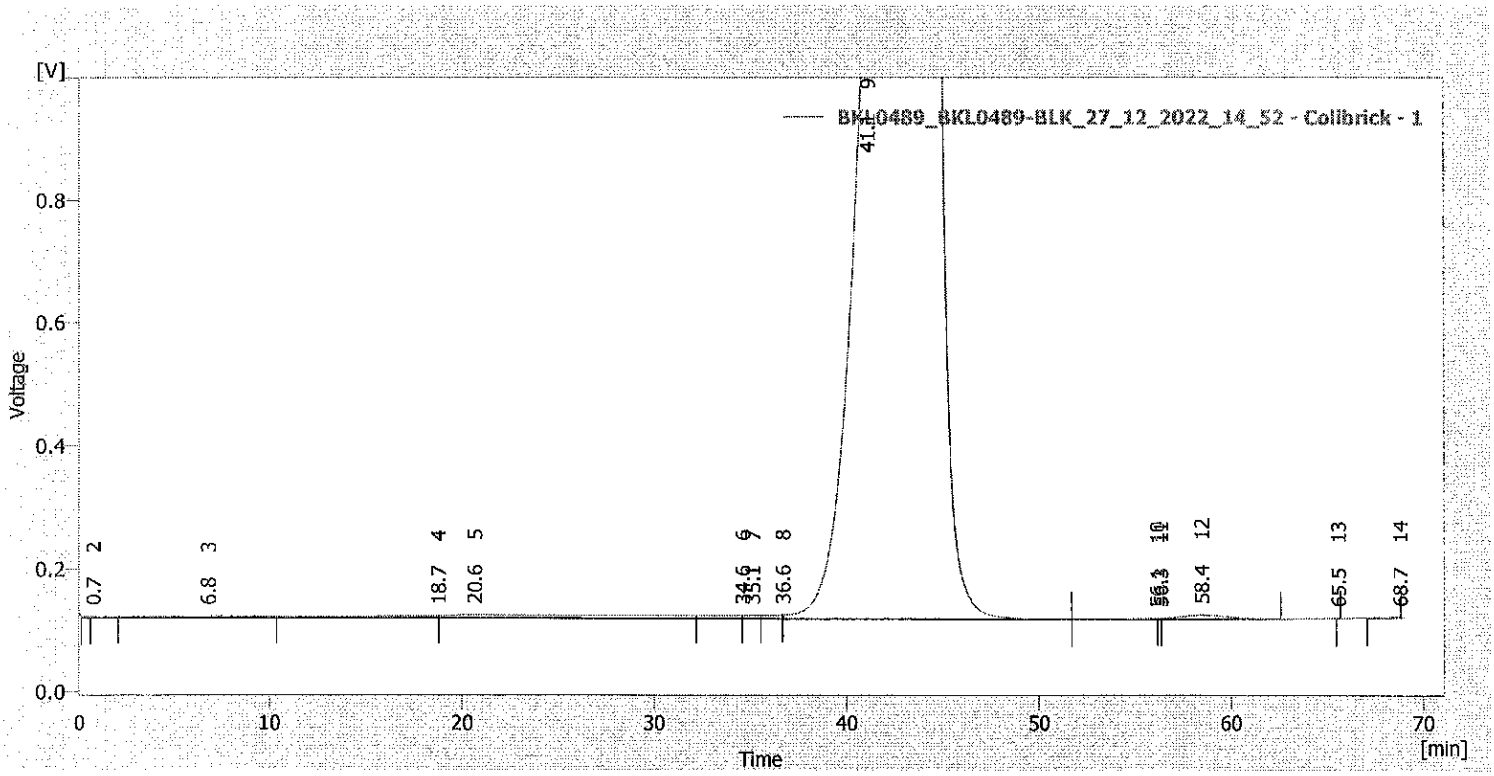
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 2:52 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : BKL0489-BS

Method : BAN_Method_GPC1

Description : GPC1- BAN

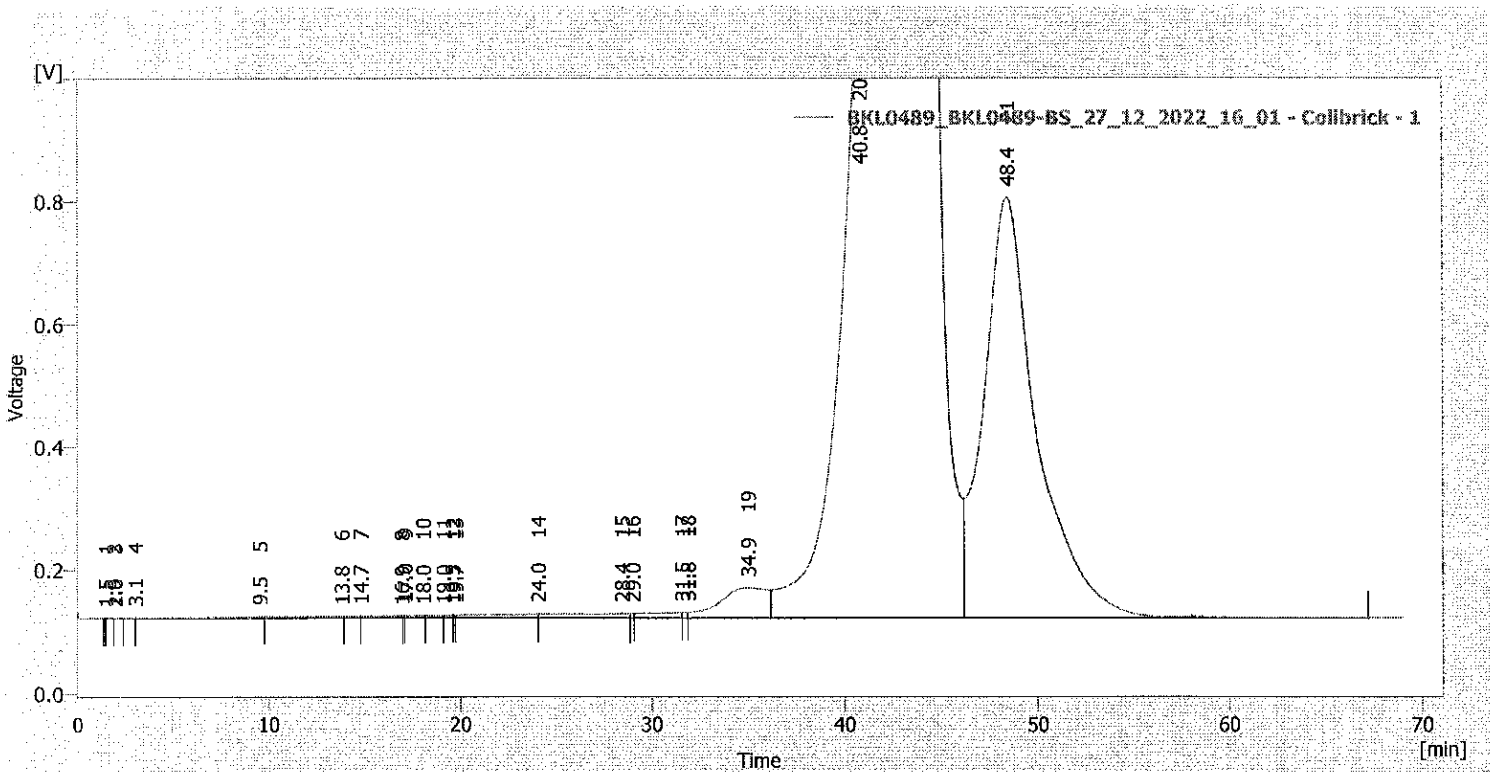
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 4:01 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : BKL0489-BSD

Method : BAN_Method_GPC1

Description : GPC1- BAN

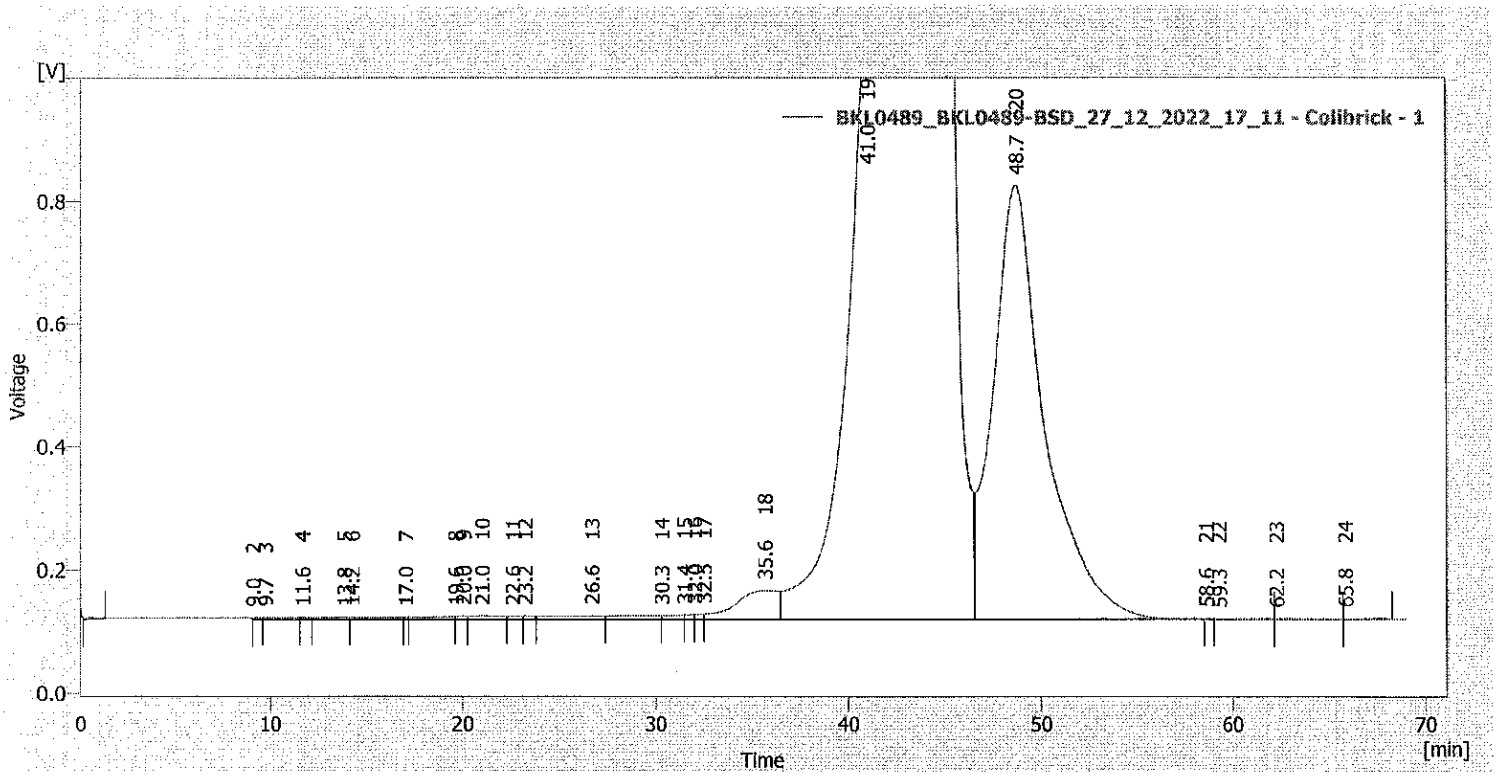
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 5:11 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : BKL0489-SRM

Method : BAN_Method_GPC1

Description : GPC1- BAN

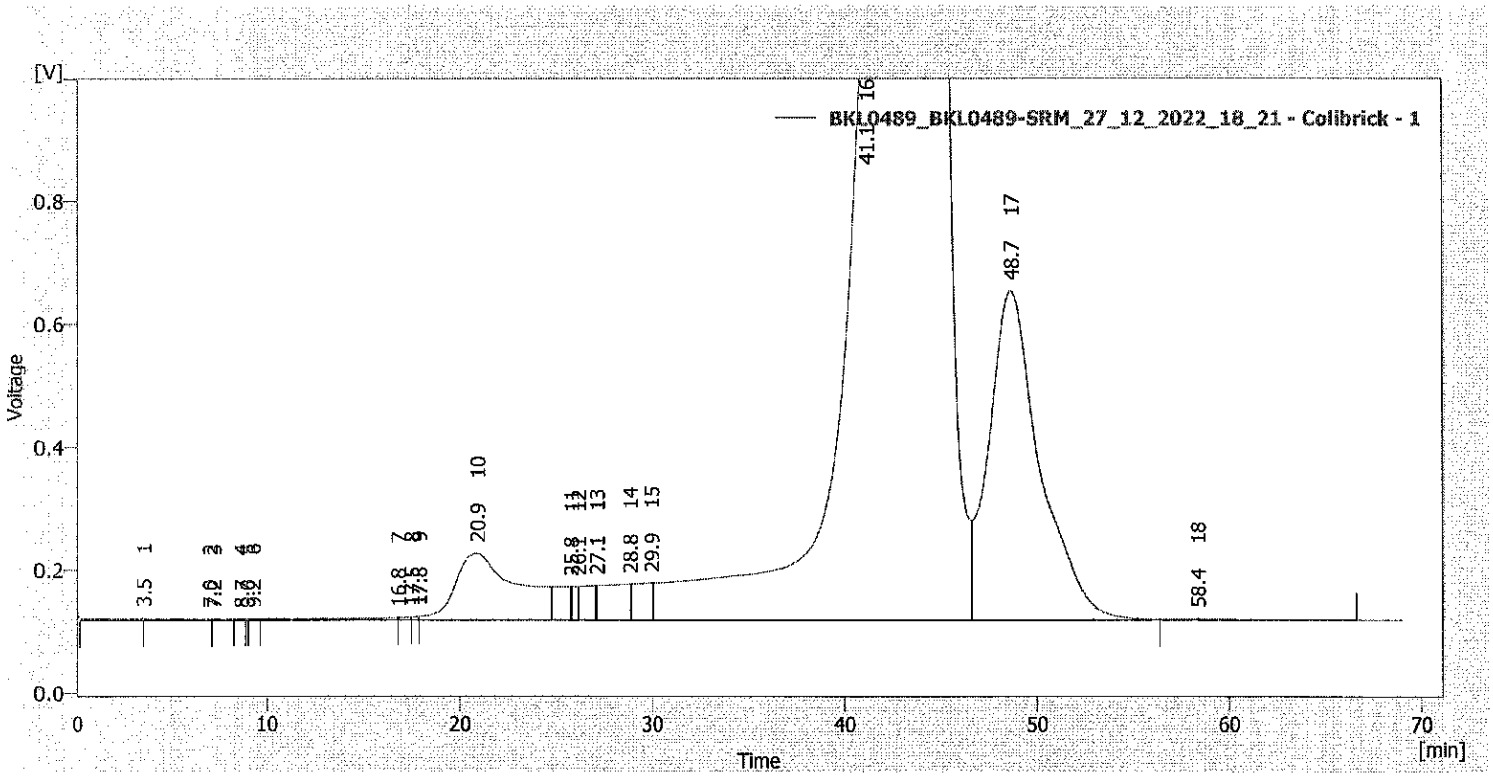
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 6:21 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0155-56 B 02

Method : BAN_Method_GPC1

Description : GPC1- BAN

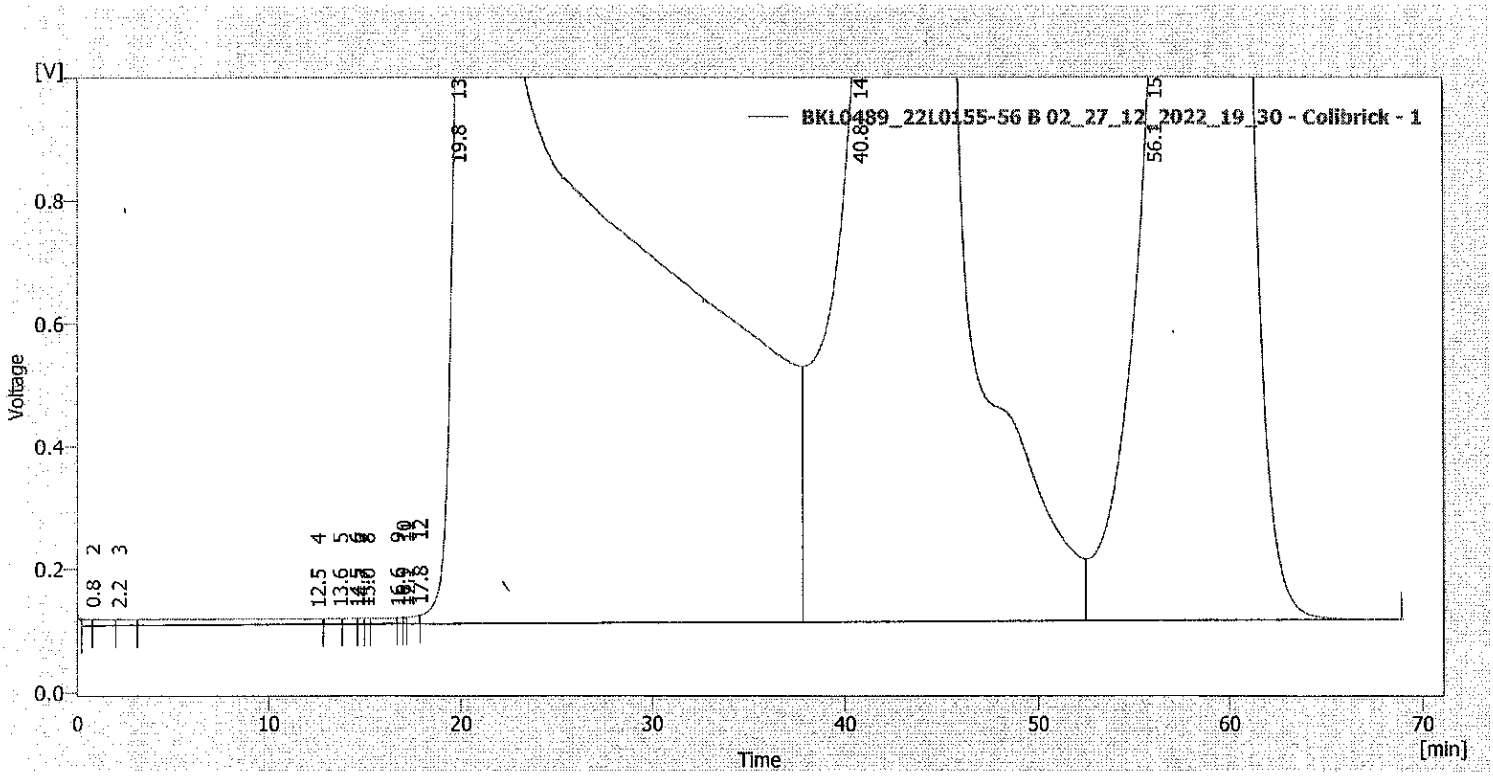
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 7:30 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-08

Method : BAN_Method_GPC1

Description : GPC1- BAN

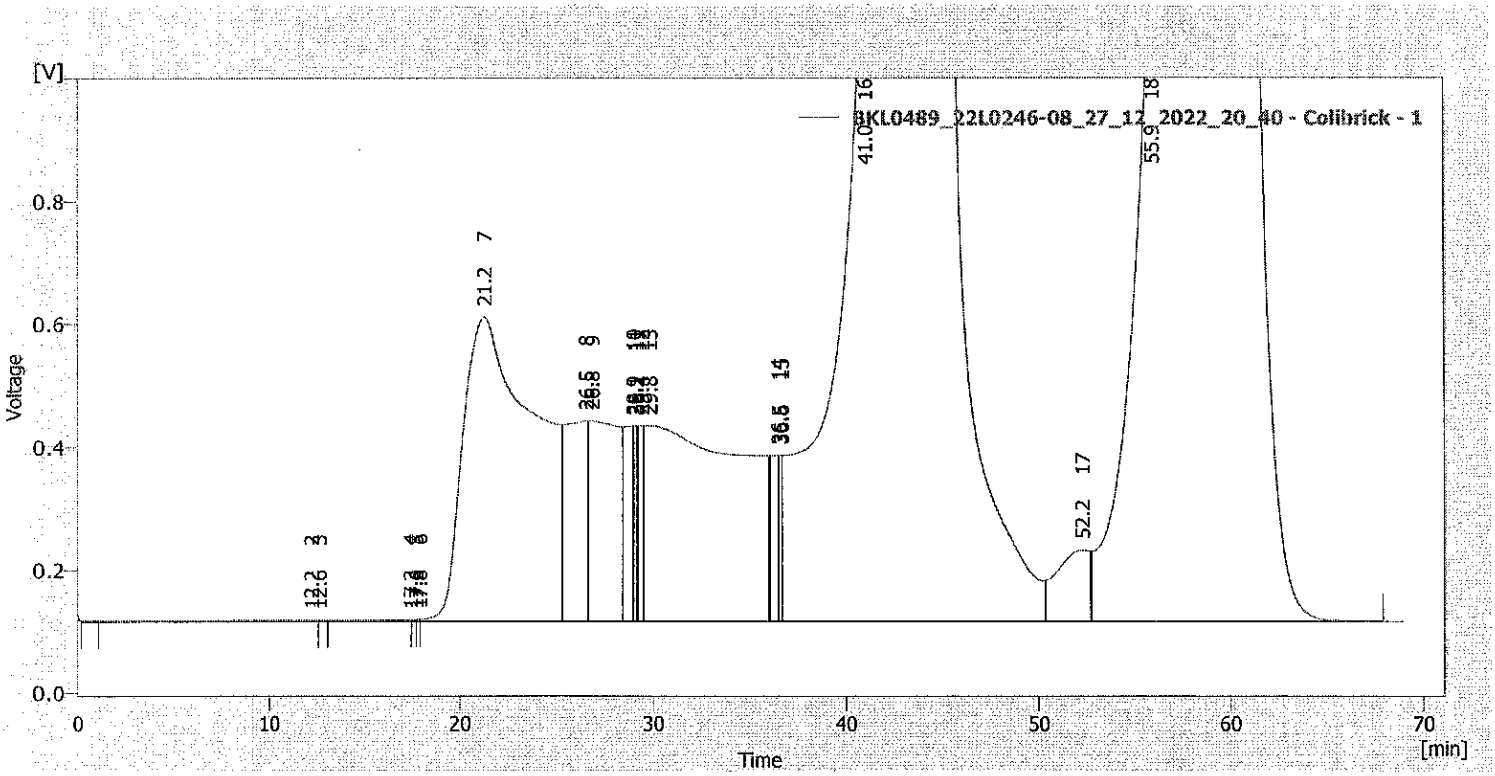
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 8:40 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-09

Method : BAN_Method_GPC1

Description : GPC1- BAN

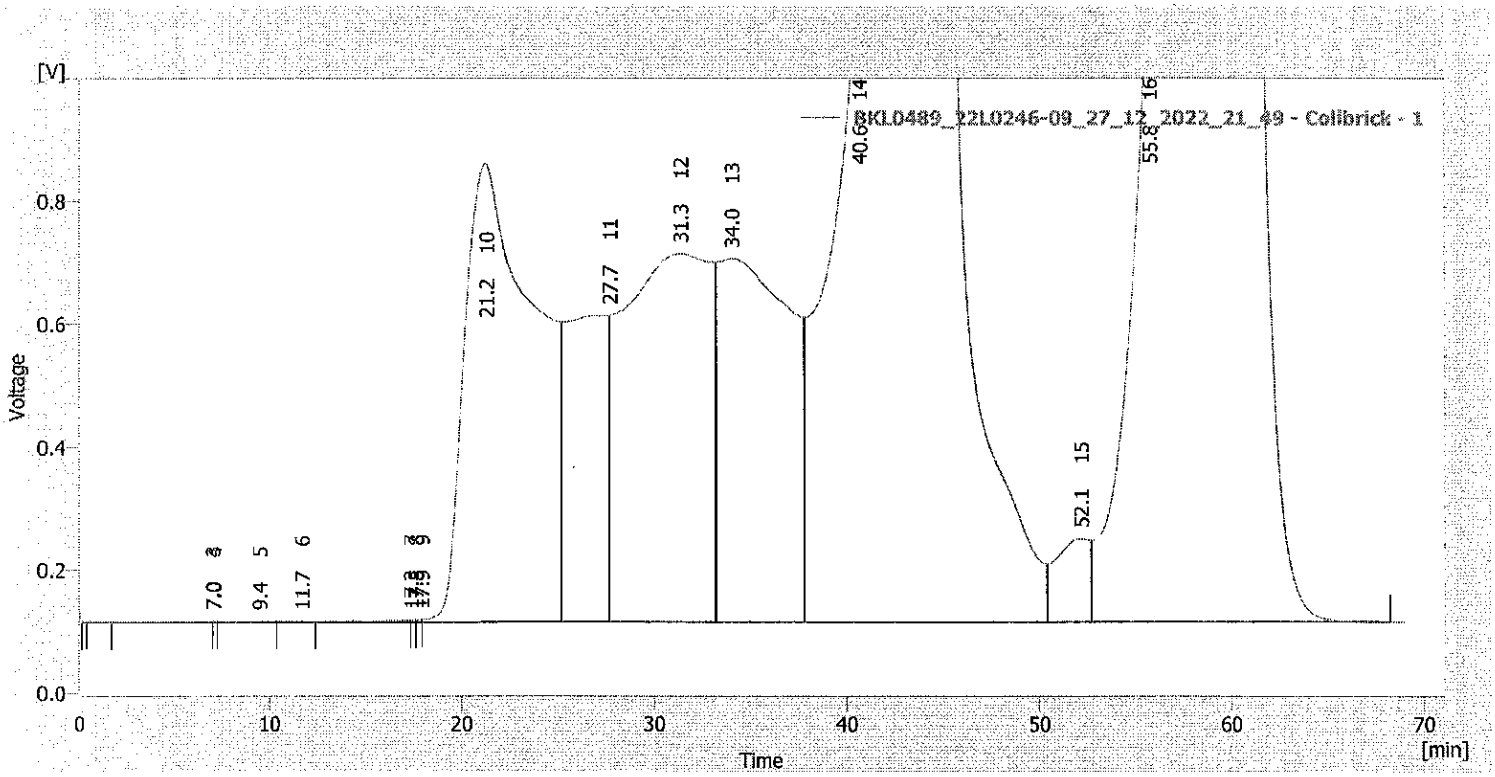
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 9:49 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-10

Method : BAN_Method_GPC1

Description : GPC1- BAN

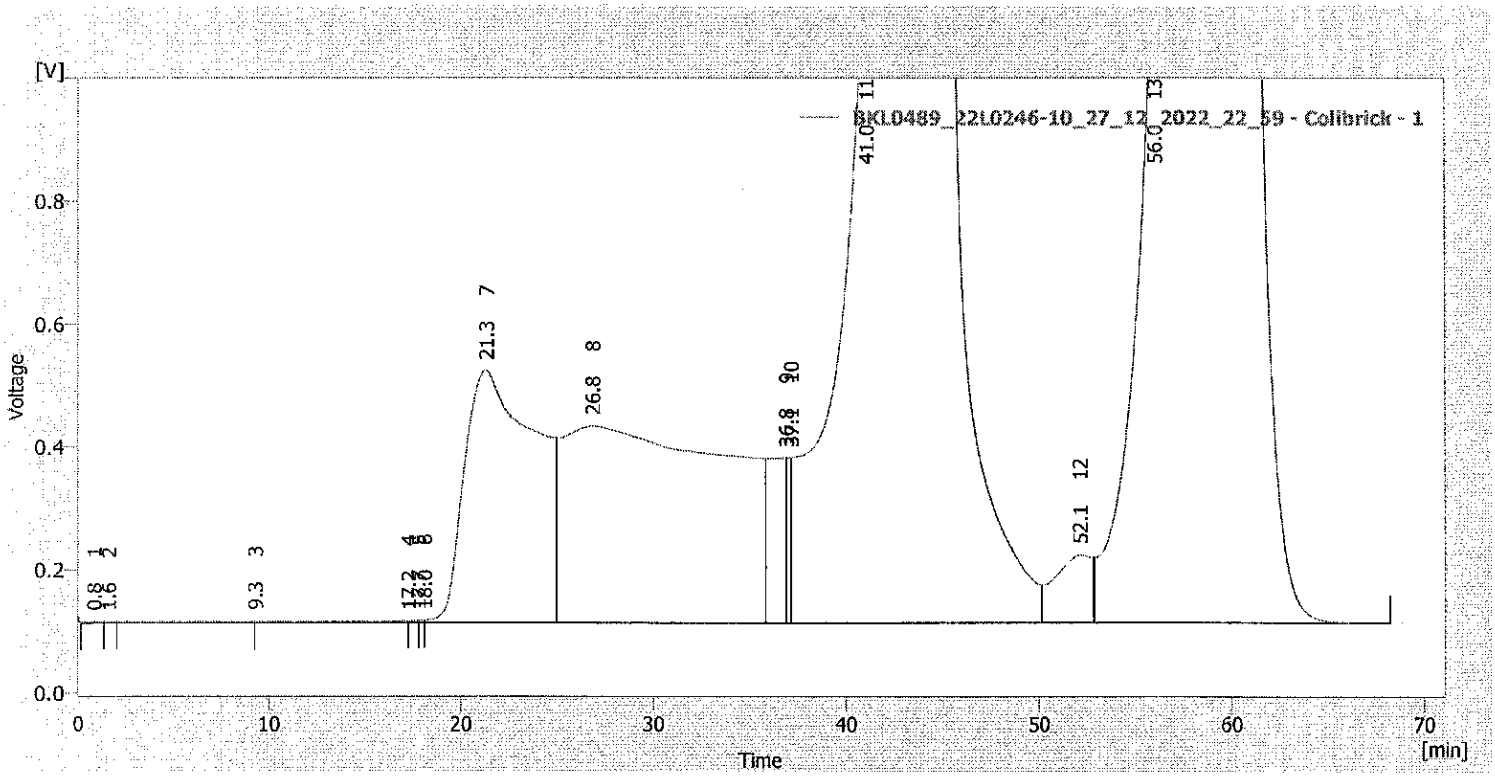
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/27/2022 10:59 PM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



1

GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : BKL0489-MS

Method : BAN_Method_GPC1

Description : GPC1- BAN

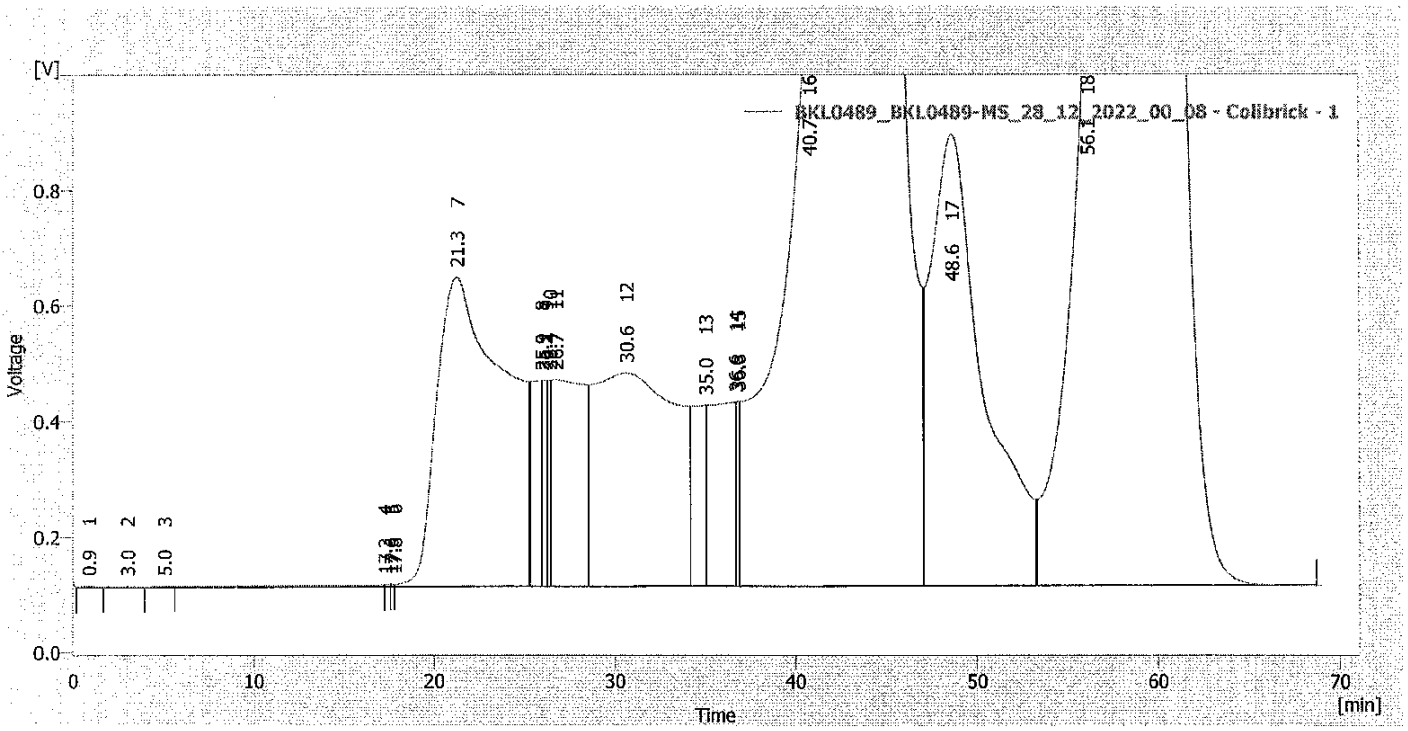
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/28/2022 12:08 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-11

Method : BAN_Method_GPC1

Description : GPC1- BAN

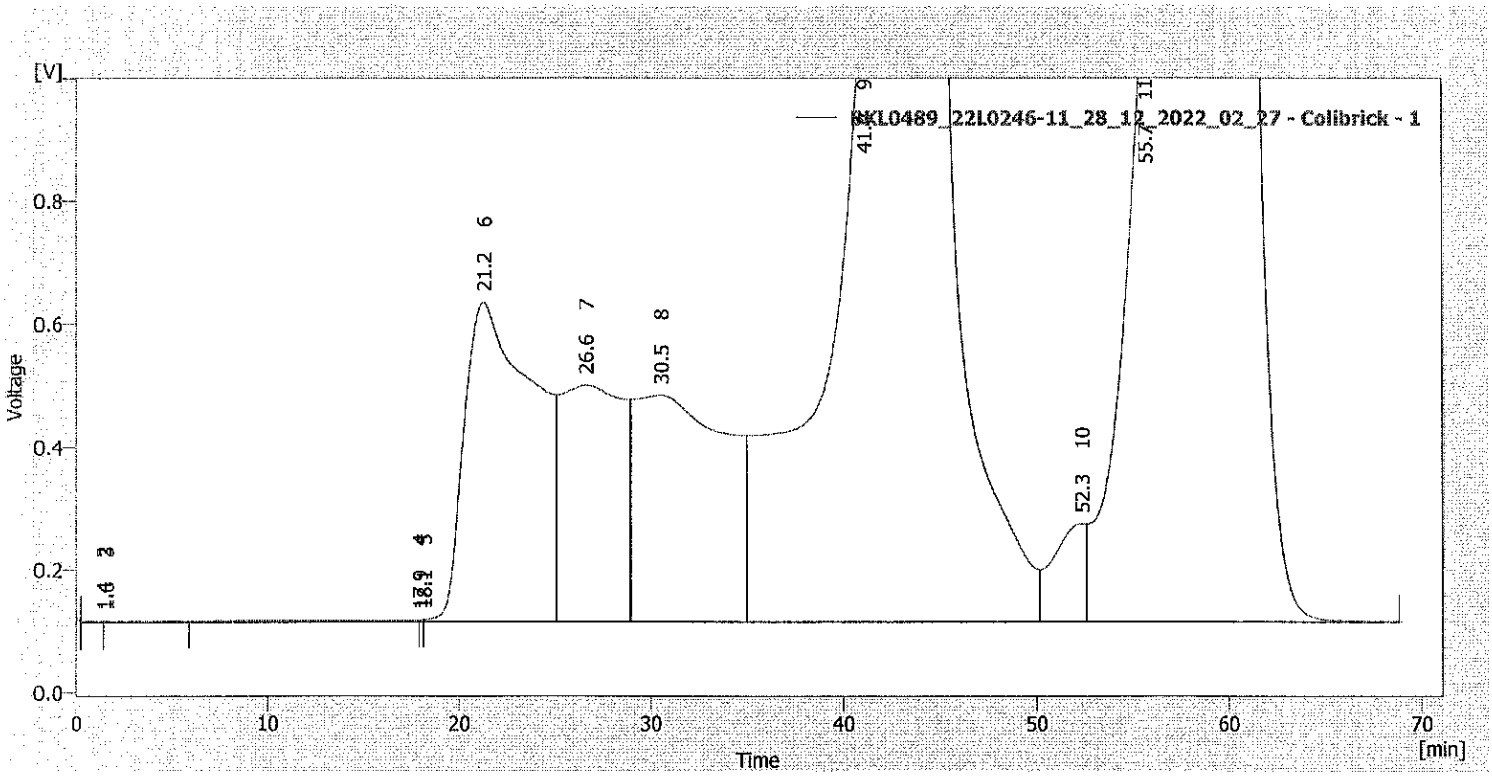
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/28/2022 2:27 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-12

Method : BAN_Method_GPC1

Description : GPC1- BAN

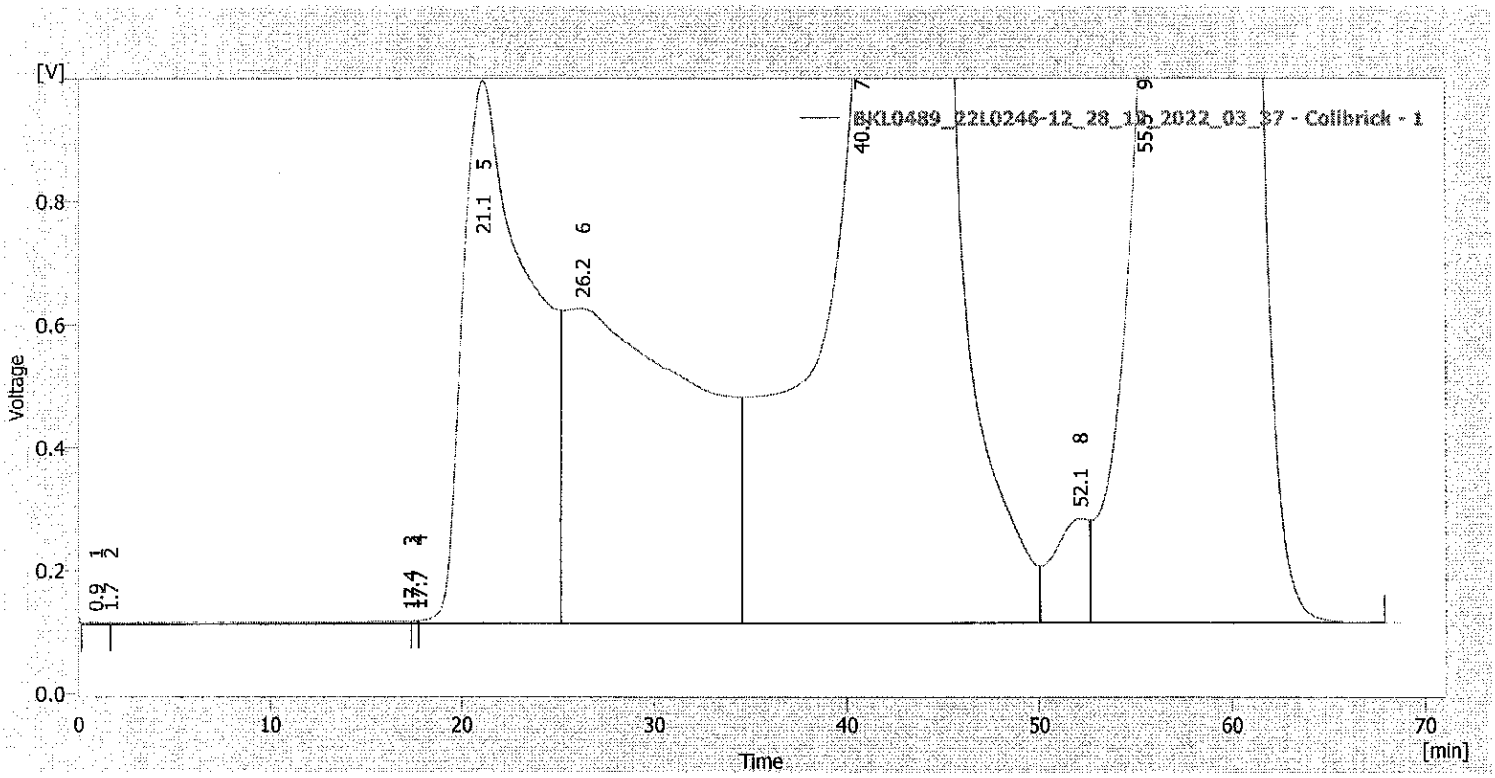
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/28/2022 3:37 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-13

Method : BAN_Method_GPC1

Description : GPC1- BAN

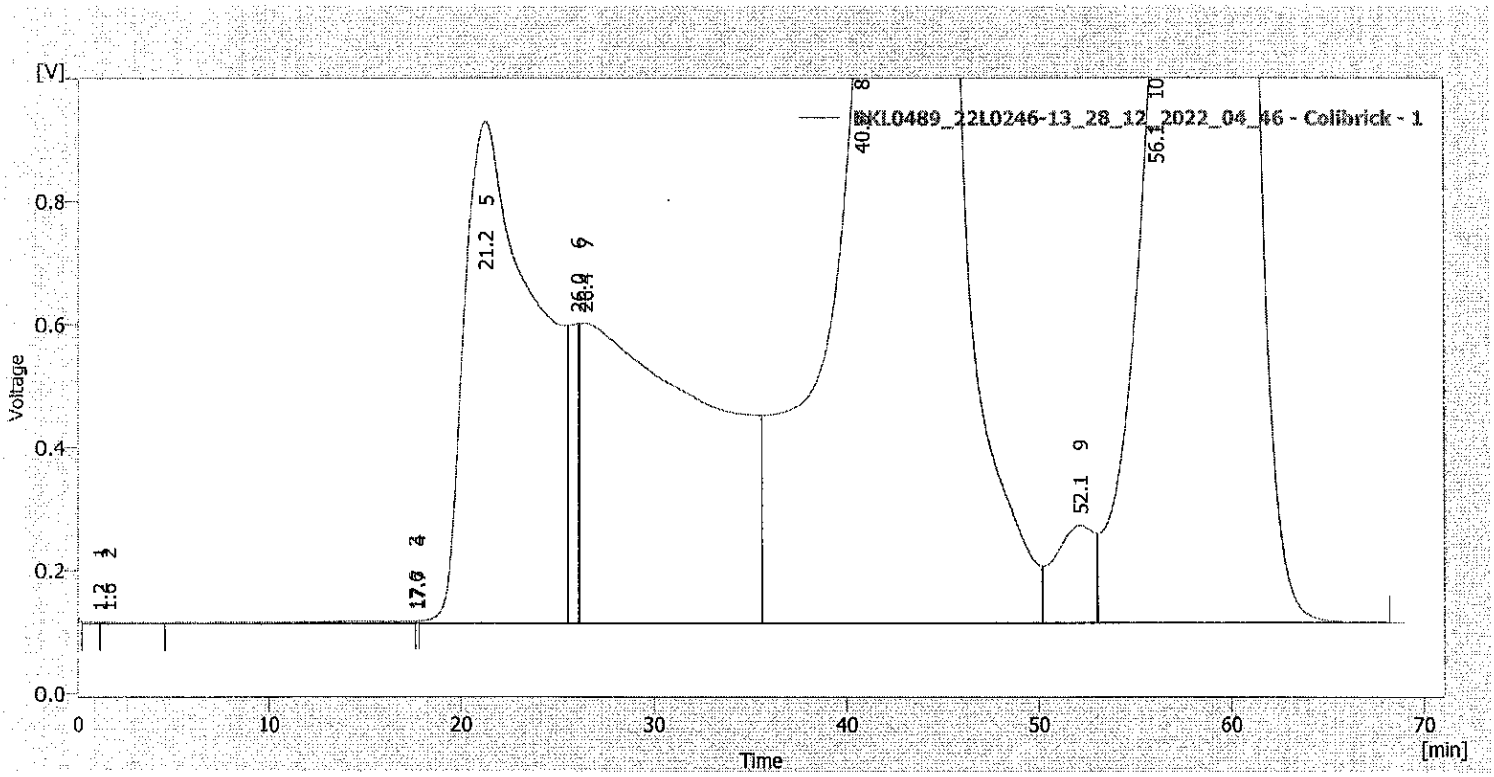
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/28/2022 4:46 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



GPC1

BAN_Method_GPC1

BKL0489

Sample Description:

Sample ID : BKL0489

Sample : 22L0246-14

Method : BAN_Method_GPC1

Description : GPC1- BAN

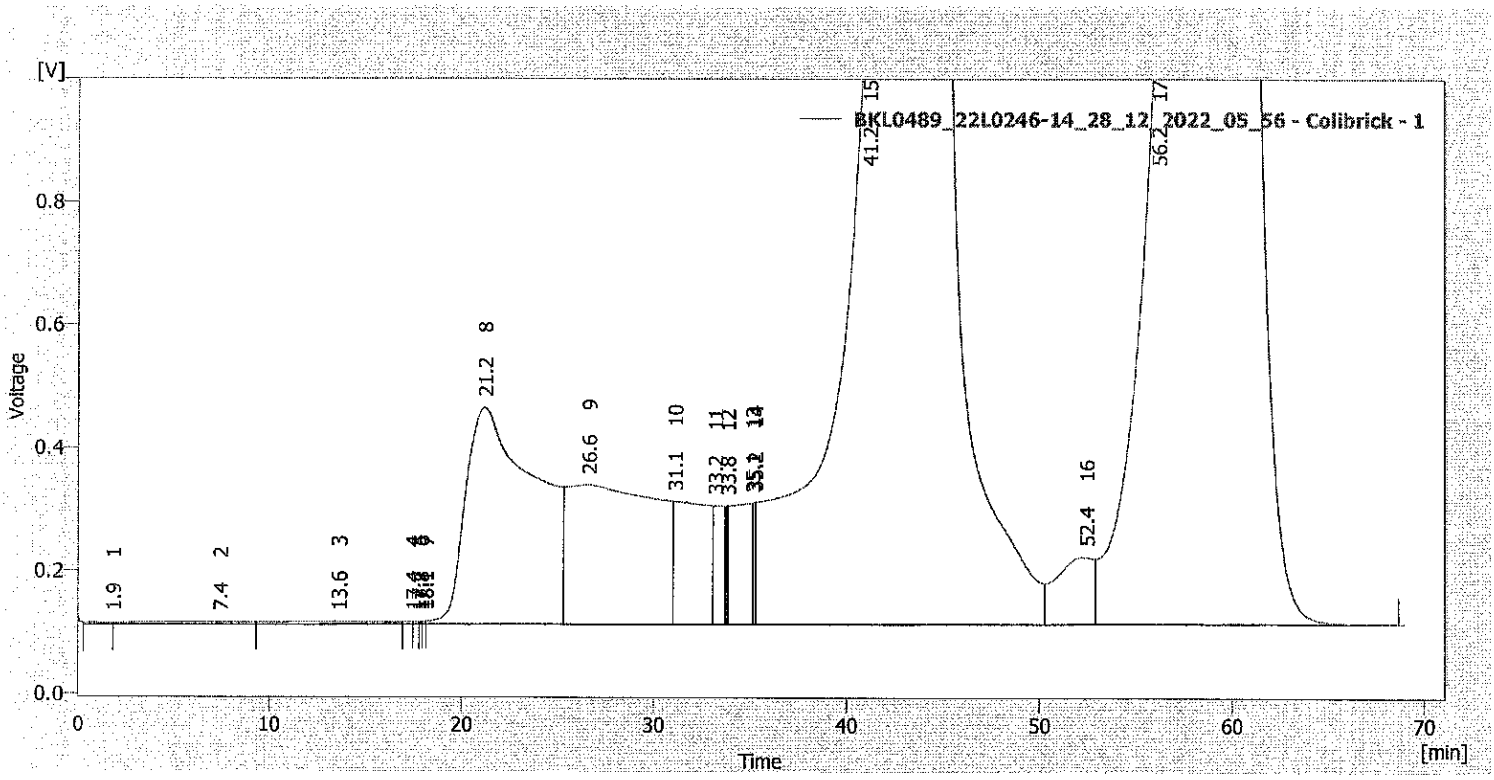
Created : 10/18/2013 6:05 AM

By : Administrator

Modified : 12/28/2022 5:56 AM

Time and Input Events Table (BAN_Method_GPC1)

	Input					Output			
Name	Type	Source	Input	Value	Units	Output Type	Output	Parameter	Store
Set_dump	Time Idle >	---	---	0.010	min	Colibrick	gpc1collect	High	☐
Start_collect	Run Time >	---	---	30.000	min	Colibrick	gpc1collect	Low	☐
Start_dump	Run Time >	---	---	58.000	min	Colibrick	gpc1collect	High	☐
Next_fract	Run Time >	---	---	67.800	min	GPC1Fraction	Next	---	☐
Error-Pump-Off	Time Idle >	---	---	78.000	min	Colibrick	GPC1-Poweroff	Low	☐



Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0585 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT809B	22L0246-43	NT1423010614.D	12/27/22 11:08	
LDW22-IT809C	22L0246-44	NT1423010615.D	12/27/22 11:08	
LDW22-IT809D	22L0246-45	NT1423010616.D	12/27/22 11:08	
LDW22-IT809E	22L0246-46	NT1423010622.D	12/27/22 11:08	
LDW22-IT809F	22L0246-47	NT1423010623.D	12/27/22 11:08	
LDW22-IT809G	22L0246-48	NT1423010624.D	12/27/22 11:08	
Blank	BKL0585-BLK1	NT1423010611.D	12/27/22 11:08	
Blank	BKL0585-BLK2	NT1423010621.D	12/27/22 11:08	
LCS	BKL0585-BS1	NT1423010612.D	12/27/22 11:08	
LCS Dup	BKL0585-BSD1	NT1423010613.D	12/27/22 11:08	
LDW22-IT809D	BKL0585-MS1	NT1423010617.D	12/27/22 11:08	
LDW22-IT809D	BKL0585-MSD1	NT1423010618.D	12/27/22 11:08	
Reference	BKL0585-SRM1	NT1423010633.D	12/27/22 11:08	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0585

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

Matrix: Solid **Date Prepared:** 12/27/22 **Balance ID:** B14646614 **Set Up By:** CP 12/22/22

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

22L0307: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
39	Benzidine Spike
QLS 14	QLS Spike (Freezer)

Analysis: 8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf)

Lab Number & Container	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0246-43 C	61.3	(16.31) 16.35	(1:1)	1mL	1	0.5	
22L0246-44 C	48.3	(20.71) 20.71	(1:1)	1mL	1	0.5	
22L0246-45 C	79.7	(12.55) 12.56	(1:1)	1mL	1	0.5	
22L0246-46 C	82.0	(12.20) 12.23	(1:1)	1mL	1	0.5	
22L0246-47 C	71.1	(14.06) 14.06	(1:1)	1mL	1	0.5	
22L0246-48 C	91.7	(10.91) 10.97	(1:1)	1mL	1	0.5	
22L0307-35 B	71.2	(14.04) 14.09	(1:1)	1mL	1	0.5	
22L0307-36 B	78.9	(12.68) 12.71	(1:1)	1mL	1	0.5	
22L0307-37 B	57.0	(17.54) 17.58	(1:1)	1mL	1	0.5	
22L0307-38 B	79.1	(12.64) 12.68	(1:1)	1mL	1	0.5	
22L0307-39 B	73.5	(13.61) 13.62	(1:1)	1mL	1	0.5	
22L0307-40 B	74.2	(13.49) 13.49	(1:1)	1mL	1	0.5	
22L0307-41 B	70.8	(14.13) 14.15	(1:1)	1mL	1	0.5	
22L0307-42 B	74.6	(13.41) 13.47	(1:1)	1mL	1	0.5	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 10 (Wet) Actual	(REQ) GPC C/U (1:1) 1 2 3	Water Wash 1mL	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0585-BLK1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0585-BS1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0585-BSD1	100.0	(10.00) 10.00	(1:1)	1mL	1	0.5	Use 5g Neutral Sodium Sulfate for Blanks
BKL0585-MS1	79.7	(12.55) 12.55	(1:1)	1mL	1	0.5	Use 22L0246-45
BKL0585-MSD1	79.7	(12.55) 12.55	(1:1)	1mL	1	0.5	Use 22L0246-45
BKL0585-SRM1	100.0	~~(10.00)~~ (1.00) 1.00	(1:1)	1mL	1	0.5	Use K003477

+1g DI WATER

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0585

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8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

WO Comments

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<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

22L0307: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
[illegible]	12/27/22	NRB	1/4/23	12/27/22 11:08

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ORGANICS PREPARATION BENCH SHEET

Batch: BKL0585

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Prep Steps

Microwave
1 2 3
Analyst/Date: 12/27/22

Pre-GPC KD 100°C Exchange to Hexane (add 10 mL to KD)
0 2 4 5 6
Analyst/Date: AA 12-30-22

TurboVap Pre GPC
1 2 3 4 5
Analyst/Date: TWC 01/02/23

Post GPC KD 80-85°C
0 2 4 5 6
Analyst/Date: NRB 1/3/23

TurboVap
1 2 3 4 5
Analyst/Date: NRB 1/4/23

Water Wash
Analyst/Date: NRB 1/4/23

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: KST Date: 12/27/22	
Anhydrous Sodium Sulfate	K011562
1:1 Methylene Chloride/Acetone	K011567
Methylene Chloride	IC011581
Pre-Deactivated Glass Wool	K011985 12/27/22
Pre GPC KD Analyst: AA Date: 12-30-22	
Pre-Deactivated Glass Wool	NA
Anhydrous Sodium Sulfate	NA
Methylene Chloride	K007902
Hexane	K011373
GPC Filter Prep Analyst: TWC Date: 01/02/23	
Methylene Chloride	K005942
GPC Analyst: TWC Date: 01/02/23	
Methylene Chloride	K005942
GPC Calibration File	CK0135-GPC-2
Post GPC KD Analyst: NRB Date: 1/3/23	
Methylene Chloride	K010561
Vialing Analyst: NRB Date: 1/4/23	
Methylene Chloride	~~KO~~ IC010528

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 100/150µg/mL	A K010466 Exp Date: 5/9/2023	50µL	GT	
Full List Spike (Freezer) 100µg/mL	7 K011369 (V) Exp K011297 Date: 8/31/2023	50µL	GT	
Base Spike 200µg/mL	56 K011369 (V) Exp K003759 Date: 4/19/2023	50µL	GT	
Acid Spike 100/200µg/mL	38 K011369 (V) Exp K003766 Date: 4/19/2023	50µL	GT	

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

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ORGANICS PREPARATION BENCH SHEET

Batch: BKL0585

Prepared using: EPA 3546 (Microwave)

8270E SVOC (20ug/kg solid or 0.2ug/L low H2O Sepf) in Solid (Version:ButylBenzylPhth Only)

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Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh into beakers-lightly dry with Sodium Sulfate. 2. Transfer to microwave vessel. 3. Add DCM ONLY to the vessels (until solvent is 3 inches above soil layer after homogenization). 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-re-homogenize while hot then let cool 10-15 min in Refridgerator 05. Re-homogenize while cool. 7. Decant DCM into Erlenmeyer flask with a funnel containing pre-deactivated glasswool. 8. Rinse with DCM 9. Microwave a 2nd time using 1:1 DCM/ACE. 10. Let cool and decant the solvent then empty the soil into the funnel and rinse with DCM. 11. KD: Add 10 mL Hexane directly to extract in the KD. 12. GPC REQUIRED 100°C water bath (CLP) KD to 5mL. 13. Vialers to take 1:5 Split Pre- GPC. 14. (After GPC): KD at 80°C. 15. TurboVap to 1mL in DCM. 16. WATER WASH REQUIRED: 16a. Vial 1mL of all extracts in 2mL amber vials in DCM. 16b. Add ~0.5mL DI water and vortex for ~5 seconds each. 16c. Centrifuge extracts for 5 minutes at 1500-2000rpm. 16d. Transfer and vial 0.5mL to new 2mL amber vials (Avoiding collecting water in syringe and cleaning syringe with Acetone and DCM between each vial). 17. Archive water wahed vials and deliever new vials to GC Department for analysis. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PSDDA / SVOC Extraction Batch: BKL0585

Total Solids Batch: BKL0402 Work Order(s): 22L0246 41-48

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 41-48	CR 12/19/22
☒ Standing Water Decanted (Not shared)= 41,42	CR 12/19/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 41-48	CR 12/19/22
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	
☒ Multiple Jars Y (N)	
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

3056F

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: SW8A Extraction Batch: BKL0535

Total Solids Batch: BKL0483 Work Order(s): 220307 21-40

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
[X] No Anomalies (standard soil/wet sediment/sand/gravel)= 21-40	CR 12/21/22
[X] Standing Water Decanted (Not shared)= 21,22,24,27,29,35,38	CR 12/21/22
[ ] Standing Water Homogenized (Shared samples)=	
[ ] Clay/Clumps (Difficult to homogenize)=	
[ ] Rocks (%+size)?	
[ ] Organics (Leaves/sticks/grass)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Received in 32oz jar(s)=Homogenized in Pyrex dish=	
[X] Previously Frozen = 21-40	CR 12/21/22
[ ] Other (Details)=	
Aqueous:	
[ ] No Anomalies	
[ ] Turbid/Color=	
[ ] Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
[ ] Emulsions (%)=	
[ ] Oily, obvious fuel/sulfur odors=	
[ ] Other (Details)=	
[ ] Received in 1.0L Bottle(s)=No Bottle Rinse=	
[ ] Other Notes/Comments= (Note problems, concerns, corrective actions).	
[X] Share Samples Y / (N)	CR 12/21/22
[X] Multiple Jars Y / (N)	CR 12/21/22
[ ] Sample Pre-Screens indicate analyte activity=	
[ ] Sample weights/volumes reduced based on Pre-Screen=	

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Organic Extractions Laboratory Analyst Notes

Extraction Parameter: 5 VOA Extraction Batch BLC0582

Total Solids Batch: BLC0484 Work Order(s): 22L0307 41-60

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 41-51, 54-60	CR 12/21/22
☒ Standing Water Decanted (Not shared)= 41, 43-47, 50-54	CR 12/21/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☒ (Oily), obvious fuel/sulfur odors= 52, 53	CR 12/21/22
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 41-60	CR 12/21/22
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	CR 12/21/22
☒ Multiple Jars Y / (N)	CR 12/21/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

BKL0585 22L0246/307 PSDDA SVOC

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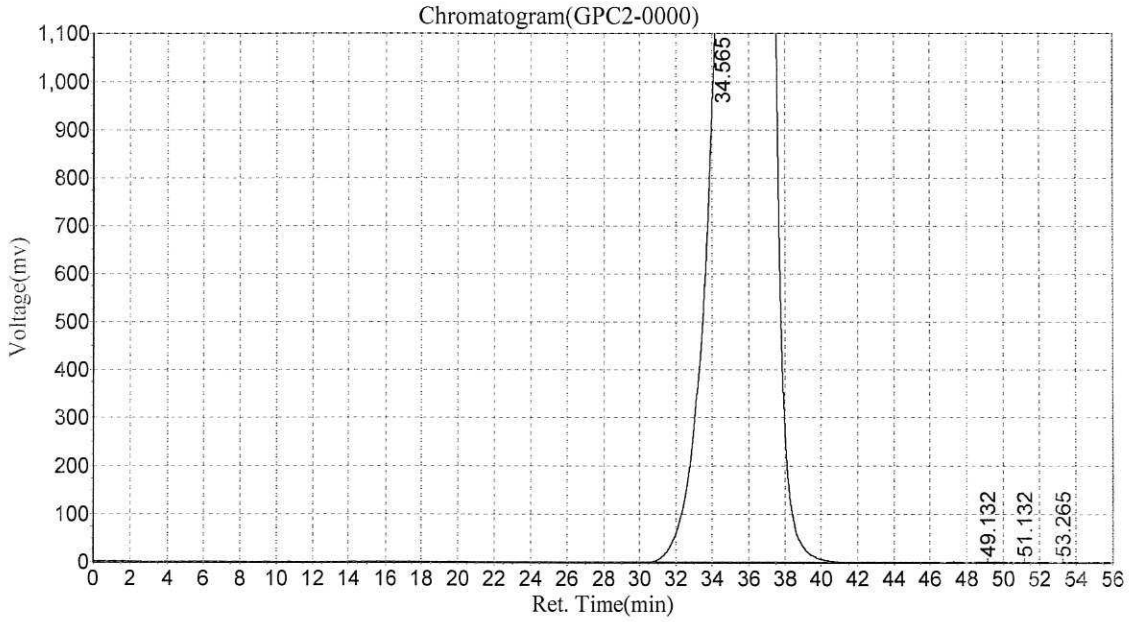

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		34.565	1376773.875	355406368.000	99.8569
2		49.132	1717.000	171127.328	0.0481
3		51.132	1873.875	177088.297	0.0498
4		53.265	1950.208	160932.750	0.0452
Total			1382314.958	355915516.375	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

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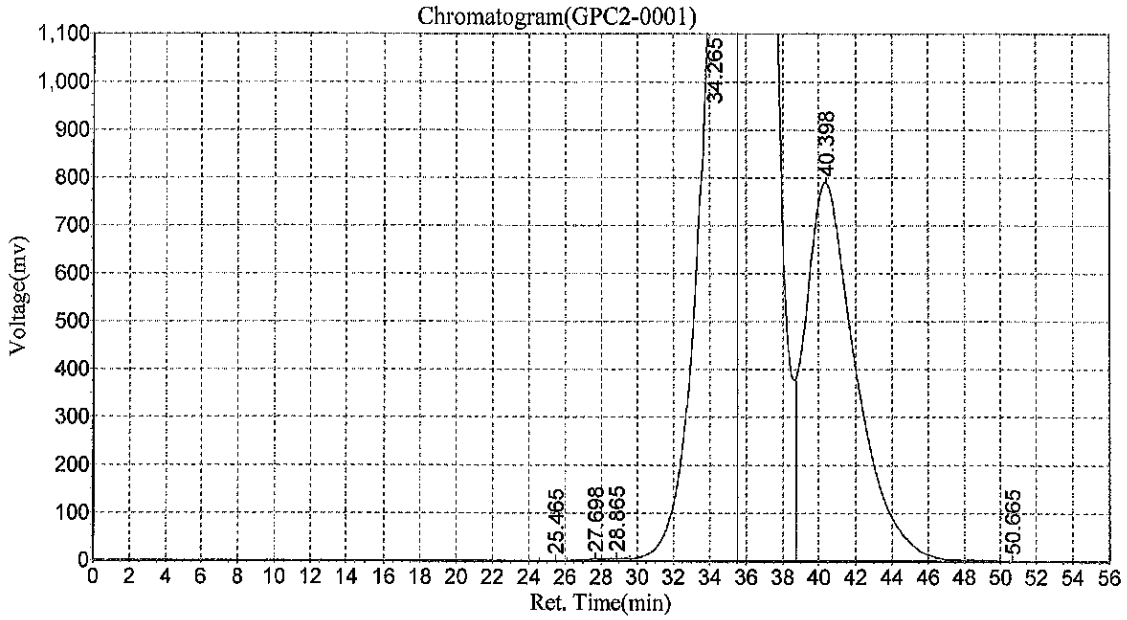

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.465	2923.730	149339.703	0.0428
2		27.698	6917.608	605906.313	0.1737
3		28.865	8057.619	708254.875	0.2030
4		34.265	1376538.375	194256608.000	55.6793
5		40.398	791954.875	152968736.000	43.8451
6		50.665	2133.965	195829.031	0.0561
Total			2188526.171	348884673.922	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

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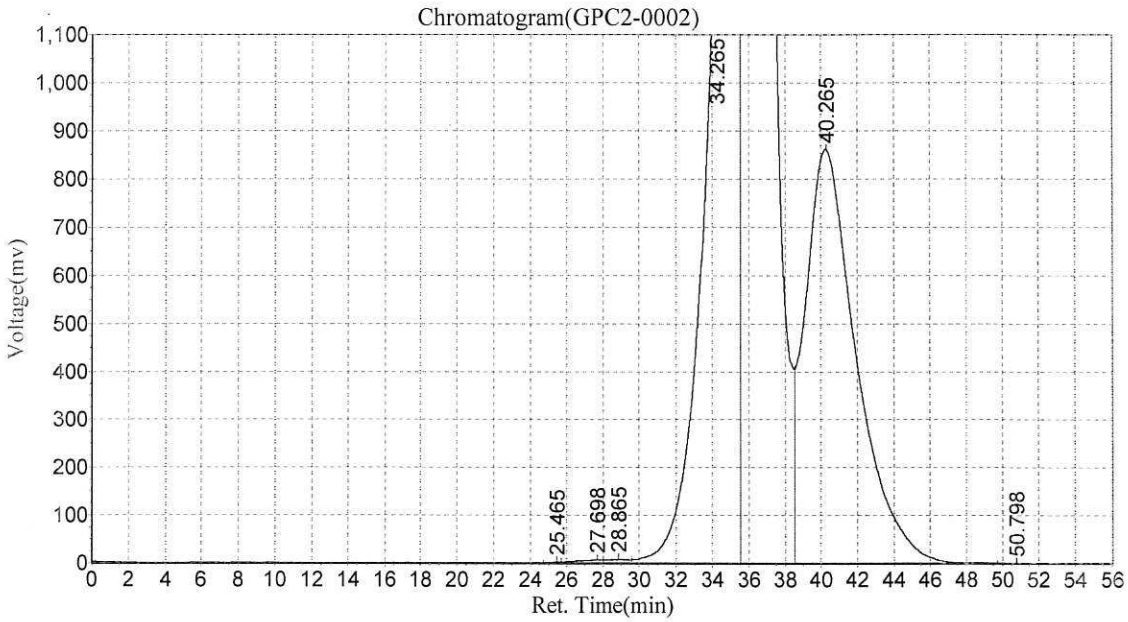

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		25.465	3059.056	130605.547	0.0363
2		27.698	7705.232	800303.000	0.2227
3		28.865	8856.101	789415.438	0.2197
4		34.265	1375137.375	187883840.000	52.2883
5		40.265	861842.938	169490272.000	47.1693
6		50.798	2367.624	228673.563	0.0636
Total			2258968.326	359323109.547	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

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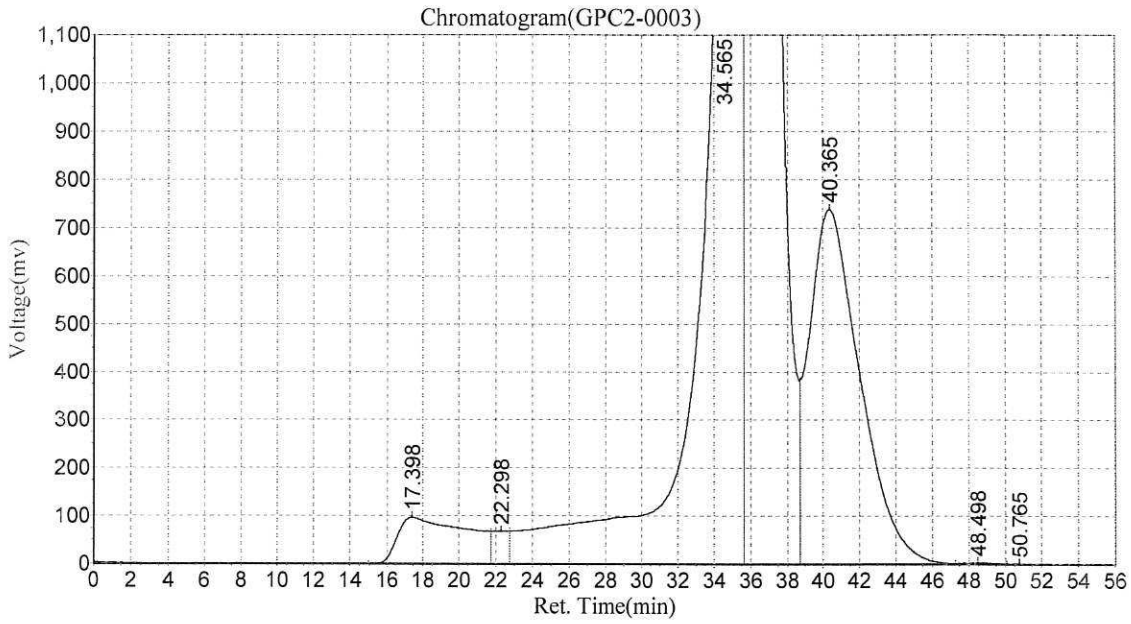

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.398	97609.273	26106536.000	6.1313
2		22.298	69509.383	4293978.500	1.0085
3		34.565	1375300.375	249865152.000	58.6828
4		40.365	739296.938	144826720.000	34.0137
5		48.498	4324.269	540462.375	0.1269
6		50.765	2306.086	156262.172	0.0367
Total			2288346.324	425789111.047	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

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Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
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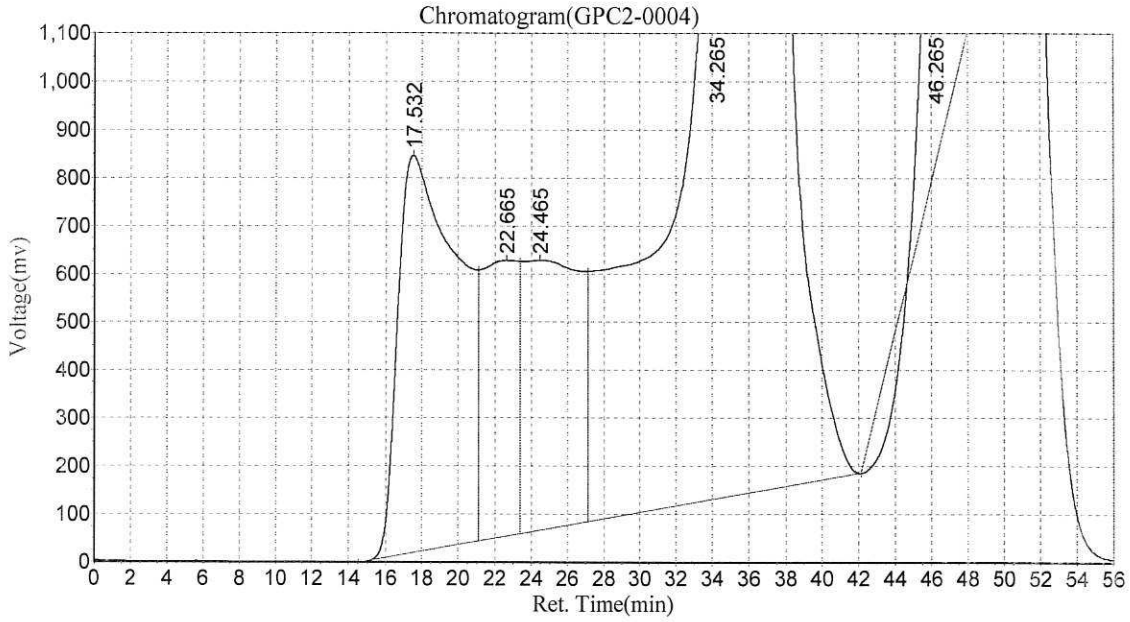

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.532	827543.563	190269728.000	17.0654
2		22.665	574271.750	78802392.000	7.0678
3		24.465	562573.000	122749064.000	11.0095
4		34.265	1241859.250	643072576.000	57.6776
5		46.265	543450.688	80048824.000	7.1796
Total			3749698.250	1114942584.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-02,9:42:11 PM
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Method File:E:\GPC2_InHouse.mtd

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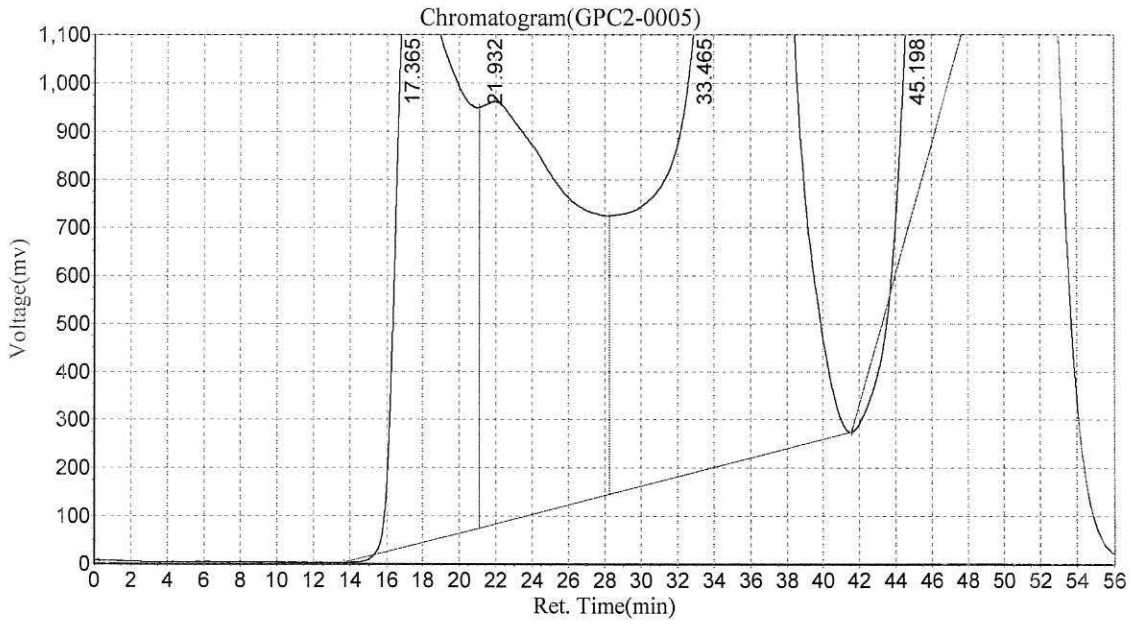

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	1340297.125	307540768.000	23.0285
2		21.932	878708.563	313140672.000	23.4479
3		33.465	1177900.500	605636224.000	45.3498
4		45.198	614313.188	109159256.000	8.1738
Total			4011219.375	1335476920.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

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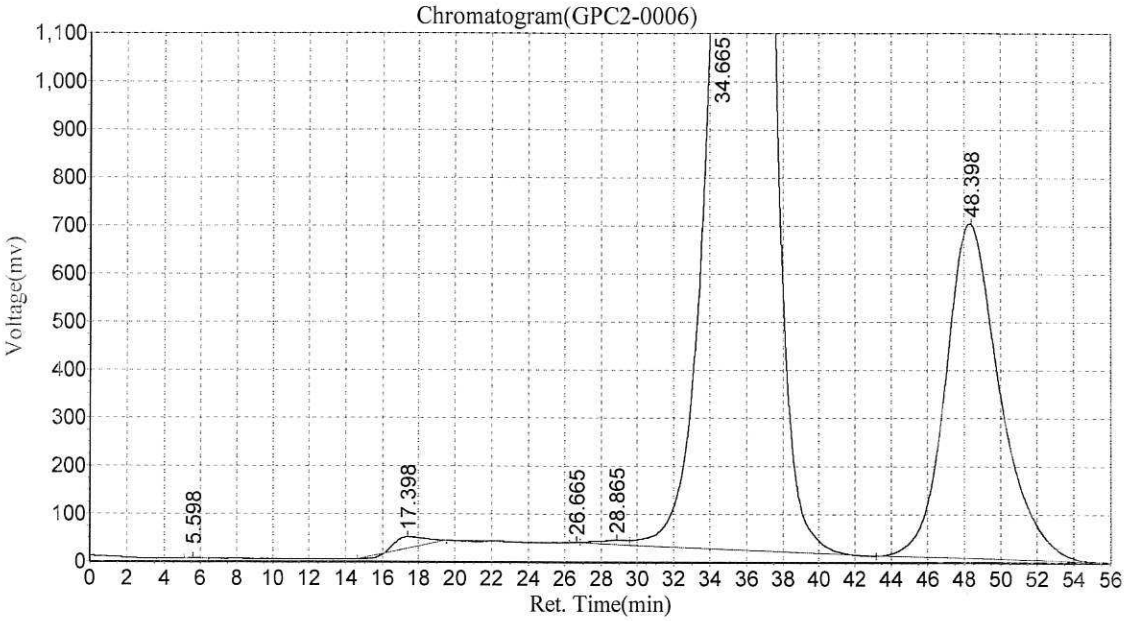

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		5.598	1921.867	111504.258	0.0210
2		17.398	24767.418	2626967.250	0.4959
3		26.665	5182.076	170232.656	0.0321
4		28.865	12142.284	1569442.375	0.2963
5		34.665	1348332.125	380508288.000	71.8279
6		48.398	696752.875	144763584.000	27.3268
Total			2089098.646	529750018.539	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

-MS1 -46 -45

BKL0585 22L0246/307 PSDDA SVOC

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Analyst£ºTWC
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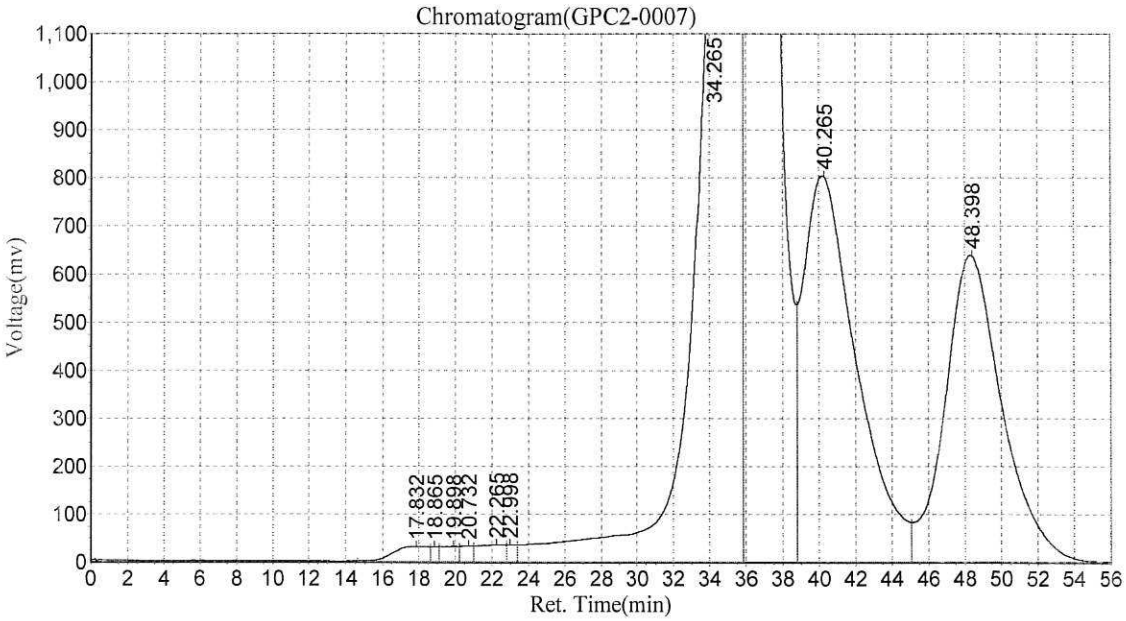

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.832	31154.834	4134291.500	0.7279
2		18.865	30992.242	921113.250	0.1622
3		19.898	31668.648	2002618.500	0.3526
4		20.732	32583.816	1547344.750	0.2724
5		22.265	35415.324	3702183.250	0.6519
6		22.998	35509.871	1268754.750	0.2234
7		34.265	1372717.750	252839760.000	44.5184
8		40.265	802468.938	162394000.000	28.5933
9		48.398	637297.375	139133760.000	24.4978
Total			3009808.799	567943826.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

MSD1 -47

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,12:35:19 AM
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Method File:E:\GPC2_InHouse.mtd

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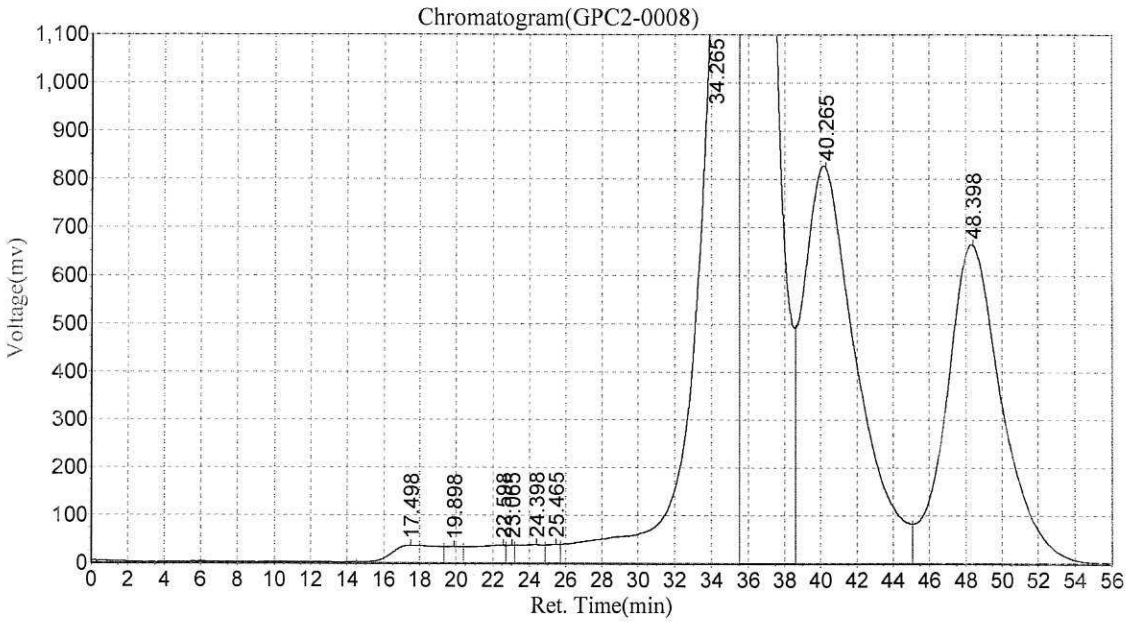

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.498	35449.398	6192588.500	1.1495
2		19.898	33130.262	2104481.250	0.3907
3		22.598	36179.613	4783303.000	0.8879
4		23.065	36498.809	1011998.375	0.1879
5		24.398	37547.512	3680924.750	0.6833
6		25.465	37946.676	1948483.625	0.3617
7		34.265	1372324.500	210786224.000	39.1288
8		40.265	824443.188	167808400.000	31.1507
9		48.398	661521.188	140381456.000	26.0594
Total			3075041.145	538697859.500	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,1:33:02 AM
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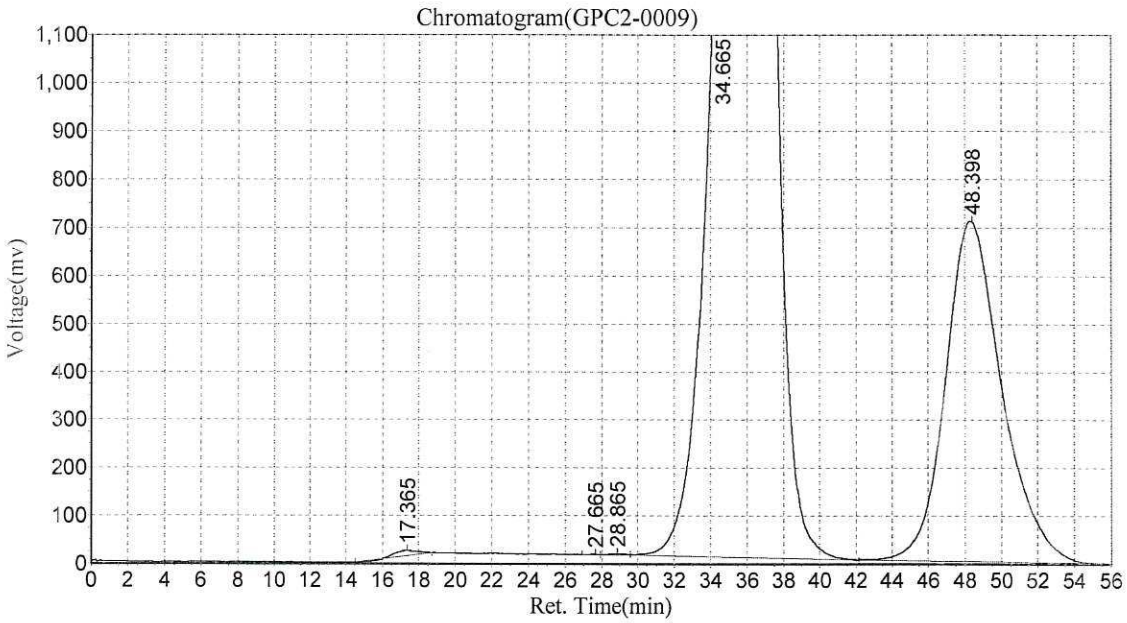

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	12677.767	1319455.250	0.2466
2		27.665	2497.830	118306.773	0.0221
3		28.865	3872.355	311020.750	0.0581
4		34.665	1360388.750	380886752.000	71.1837
5		48.398	708589.875	152440400.000	28.4895
Total			2088026.576	535075934.773	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

47
46

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,2:30:44 AM
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Method File:E:\GPC2_InHouse.mtd

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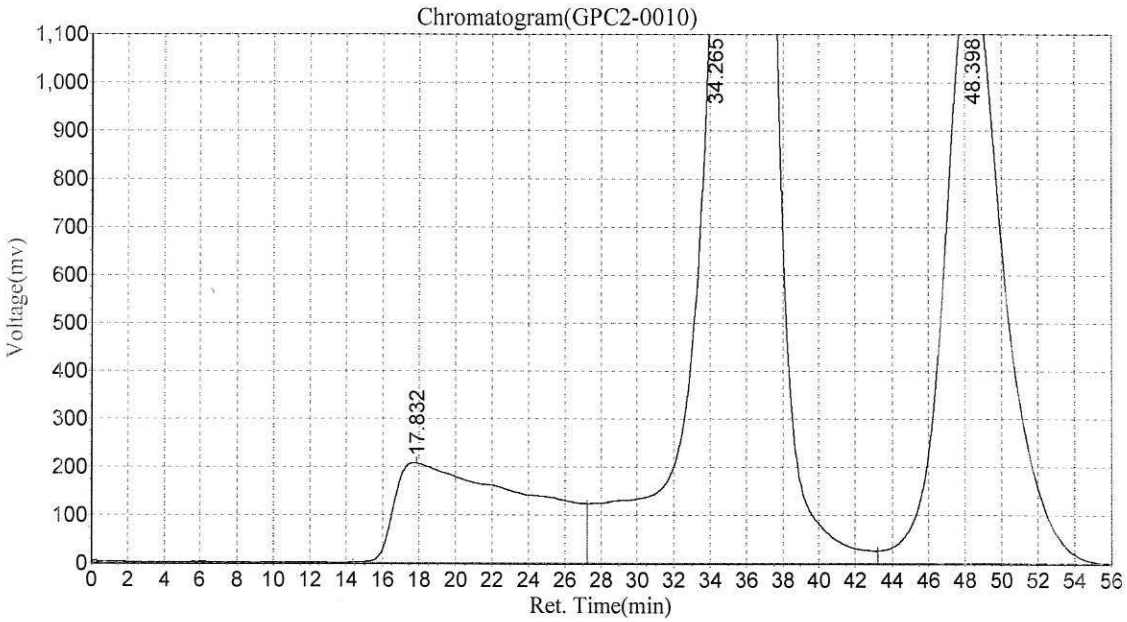

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.832	207096.172	105374176.000	12.6081
2		34.265	1372411.500	454573984.000	54.3902
3		48.398	1250850.500	275816000.000	33.0017
Total			2830358.172	835764160.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,3:28:27 AM
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Method File:E:\GPC2_InHouse.mtd

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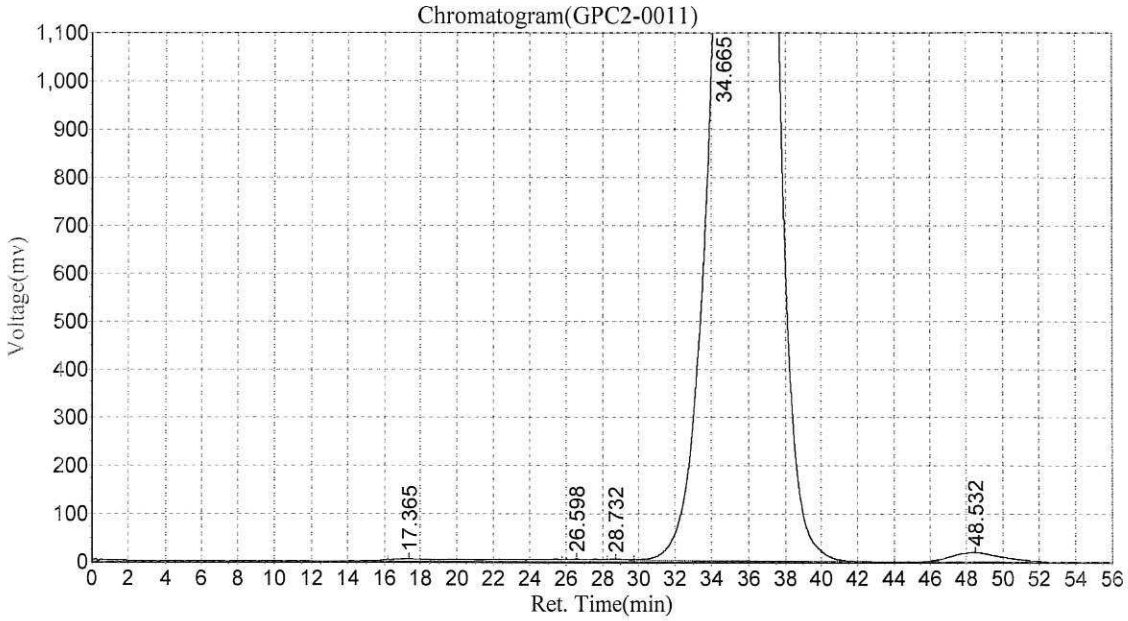

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.365	2257.846	166350.438	0.0431
2		26.598	1975.996	140794.563	0.0365
3		28.732	2789.896	180288.359	0.0467
4		34.665	1371307.750	380867200.000	98.6726
5		48.532	21259.441	4636355.500	1.2012
Total			1399590.930	385990988.859	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

7-46 -35

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,4:26:09 AM
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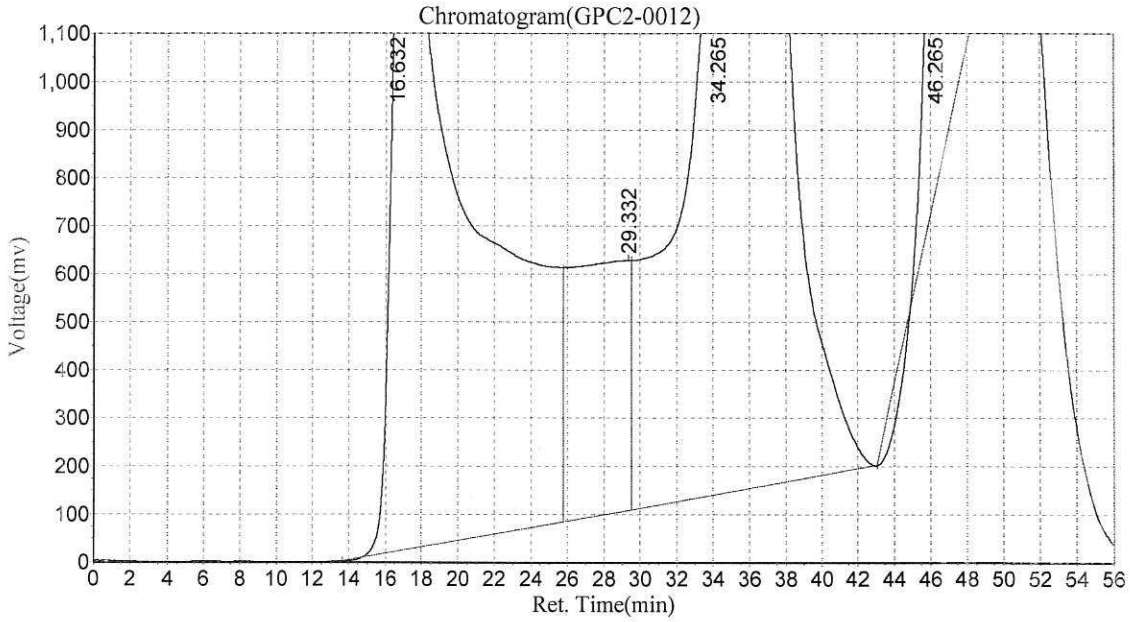

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.632	1356176.250	460582816.000	37.5804
2		29.332	519135.188	117202392.000	9.5629
3		34.265	1231754.000	560518272.000	45.7345
4		46.265	610916.438	87289144.000	7.1222
Total			3717981.875	1225592624.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,5:23:52 AM
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Method File:E:\GPC2_InHouse.mtd

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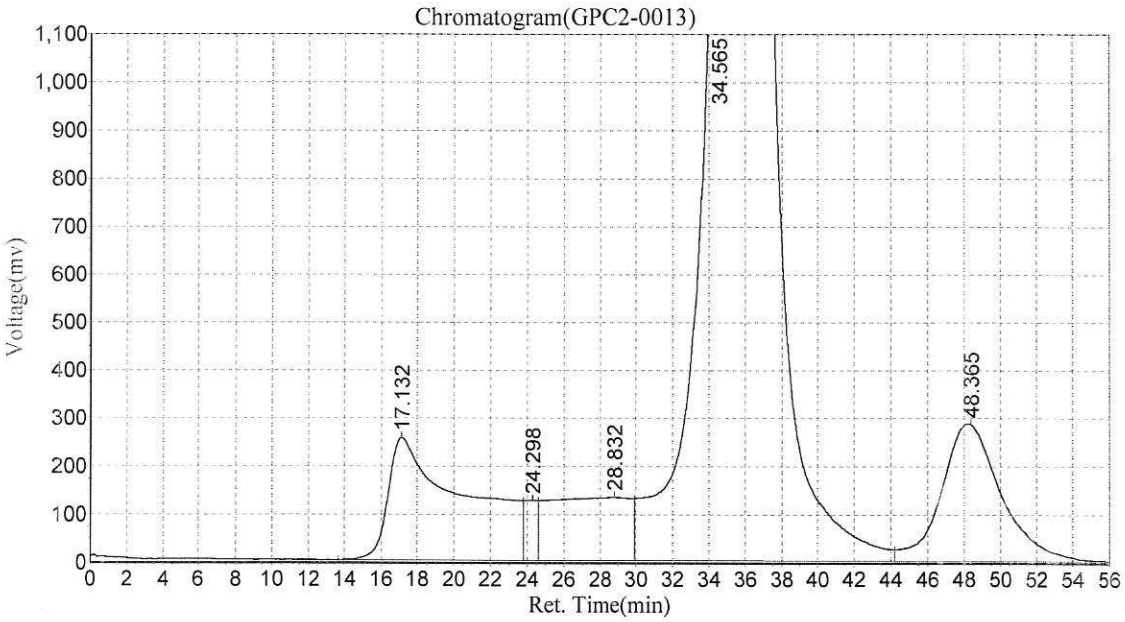

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.132	253777.000	73674856.000	11.8268
2		24.298	124606.594	6215138.500	0.9977
3		28.832	131247.750	40493920.000	6.5003
4		34.565	1368891.875	437872992.000	70.2902
5		48.365	284086.938	64693396.000	10.3850
Total			2162610.156	622950302.500	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,6:21:34 AM
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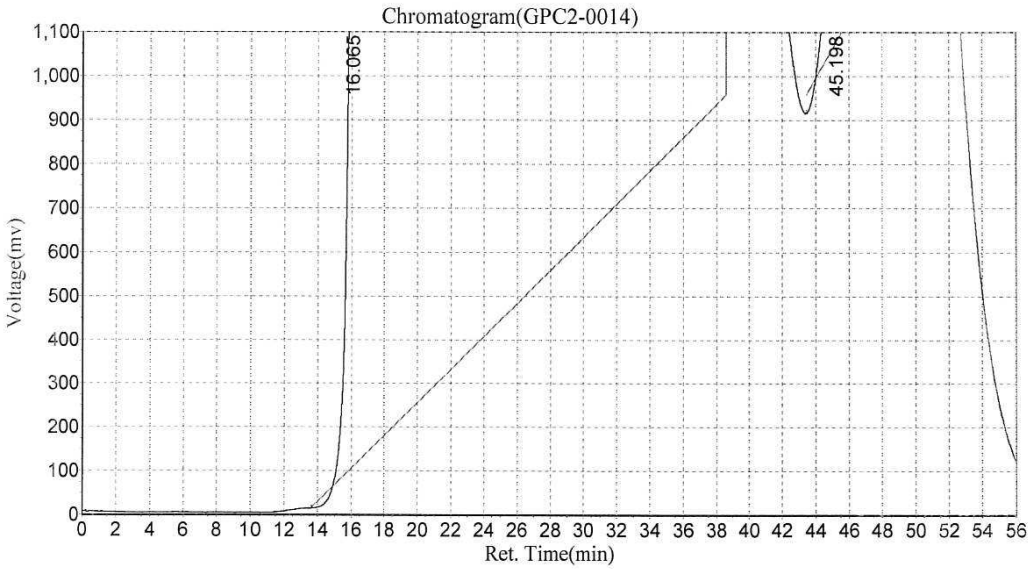
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
Date/Time2023-01-03,6:21:34 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		16.065	1272645.500	1170855808.000	98.3685
2		45.198	170815.938	19418976.000	1.6315
Total			1443461.438	1190274784.000	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

39
-38

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,8:16:59 AM
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Method File:E:\GPC2_InHouse.mtd

Analyst£ºTWC
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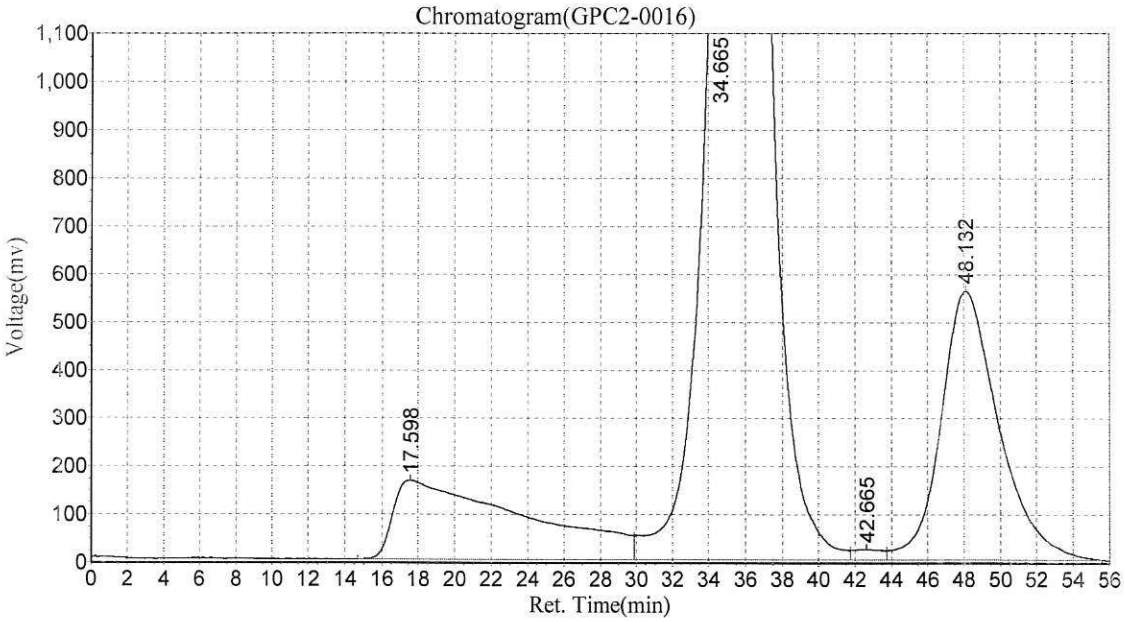

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.598	163656.891	82412432.000	13.7134
2		34.665	1367010.875	392730400.000	65.3503
3		42.665	21238.768	2422169.750	0.4030
4		48.132	557995.125	123397352.000	20.5333
Total			2109901.658	600962353.750	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

40
-34

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,9:14:42 AM
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Analyst£ºTWC
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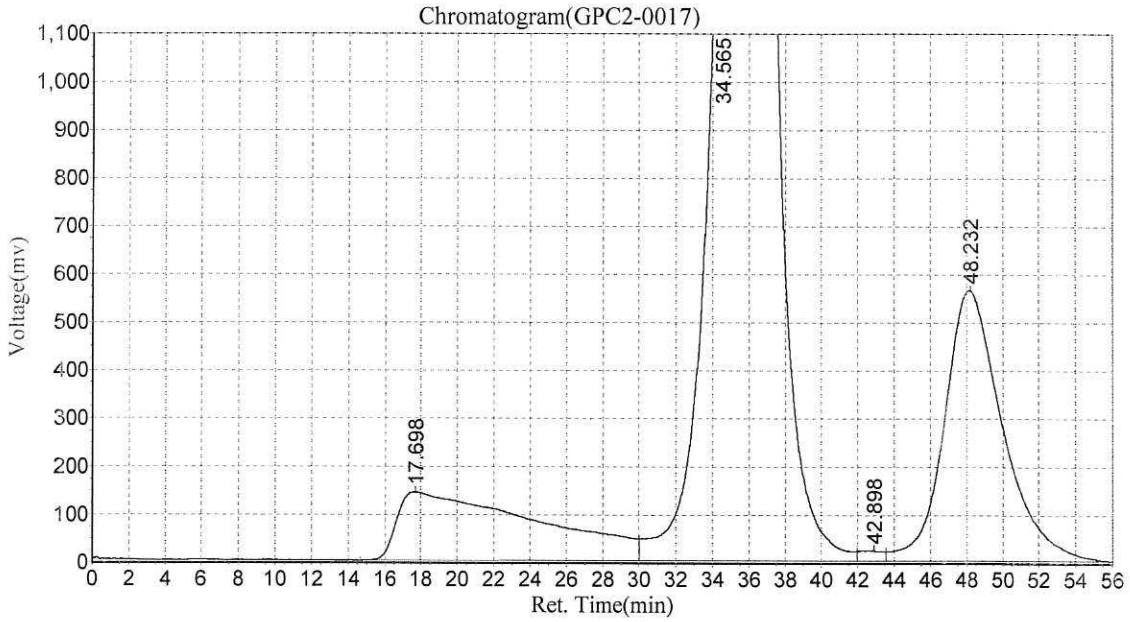

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.698	142535.891	76613784.000	12.6723
2		34.565	1368607.625	399792448.000	66.1278
3		42.898	21175.867	1963766.750	0.3248
4		48.232	561301.250	126205608.000	20.8751
Total			2093620.633	604575606.750	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,10:12:24 AM
Data File:c:\n2000\data\gpc2\010223\GPC2-0018
Method File:E:\GPC2_InHouse.mtd

Analyst£°TWC
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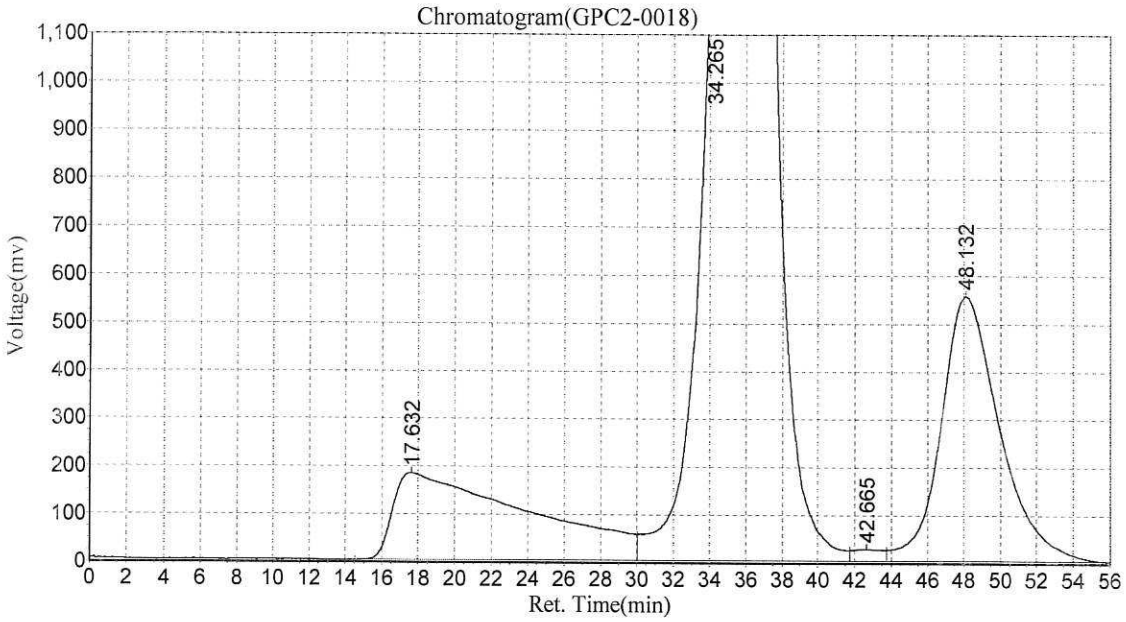

Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.632	181972.359	93914560.000	14.7732
2		34.265	1369095.750	415326272.000	65.3326
3		42.665	24509.648	2791743.500	0.4392
4		48.132	550999.125	123677792.000	19.4551
Total			2126576.883	635710367.500	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

BKL0585 22L0246/307 PSDDA SVOC

Date:2023-01-03,11:10:07 AM
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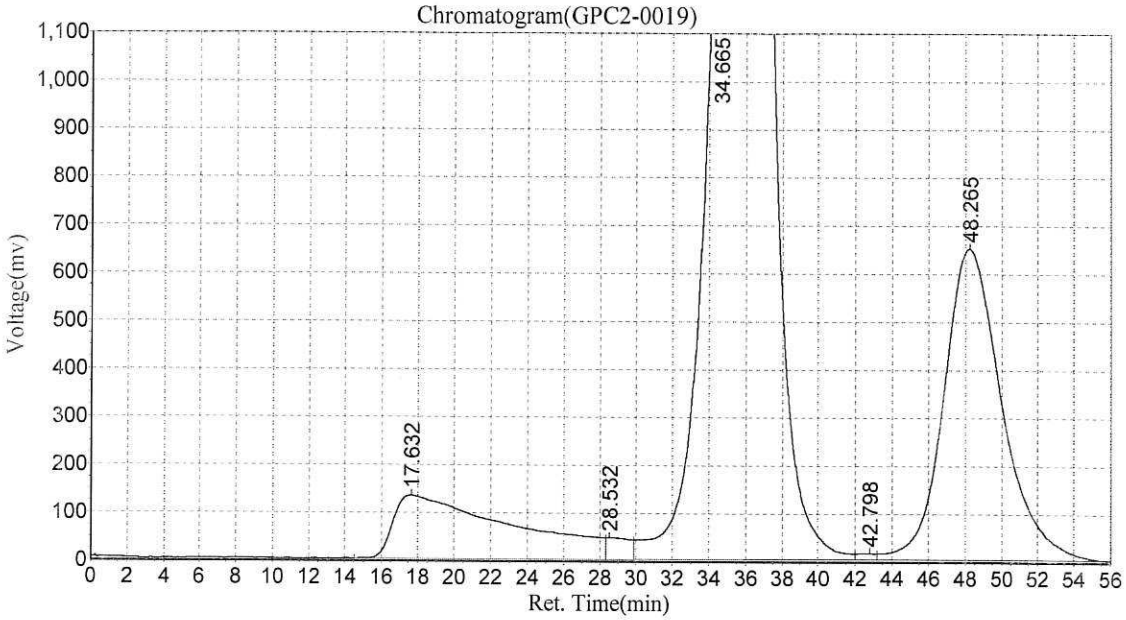
Analyst£°TWC
Date/Time2023-01-03,11:10:08 AM



Results

Peak No.	Peak ID	Ret Time	Height	Area	Conc
1		17.632	131918.922	58952700.000	9.9526
2		28.532	44834.078	3957216.500	0.6681
3		34.665	1368963.125	385418720.000	65.0675
4		42.798	13211.396	920177.000	0.1553
5		48.265	647036.438	143088400.000	24.1566
Total			2205963.959	592337213.500	100.000

Ingredient Table

No	Peak ID	Ret Time	Peak Width	Factor1	Factor2	ISTD Wt.
1	Collect Pest	29.000	0.010	0.00E+000	0.00E+000	0.0000
2	Dump Pest	46.000	0.010	0.00E+000	0.00E+000	0.0000
3	Dump BAN	48.000	0.010	0.00E+000	0.00E+000	0.0000
4	Collect BAN	24.000	0.010	0.00E+000	0.00E+000	0.0000

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0489-BLK1	File ID:	NT1023010504.D
Sampled:	N/A	Prepared:	12/20/22 11:22	Analyzed:	01/05/23 15:17
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BKL0489	Sequence:	SLA0061	Calibration:	GA00013
Instrument:	NT10	Column:	ZB-5MSi		

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.00	498	99.5	37 - 120	

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010504.D

Date : 05-JAN-2023 15:17

Client ID:

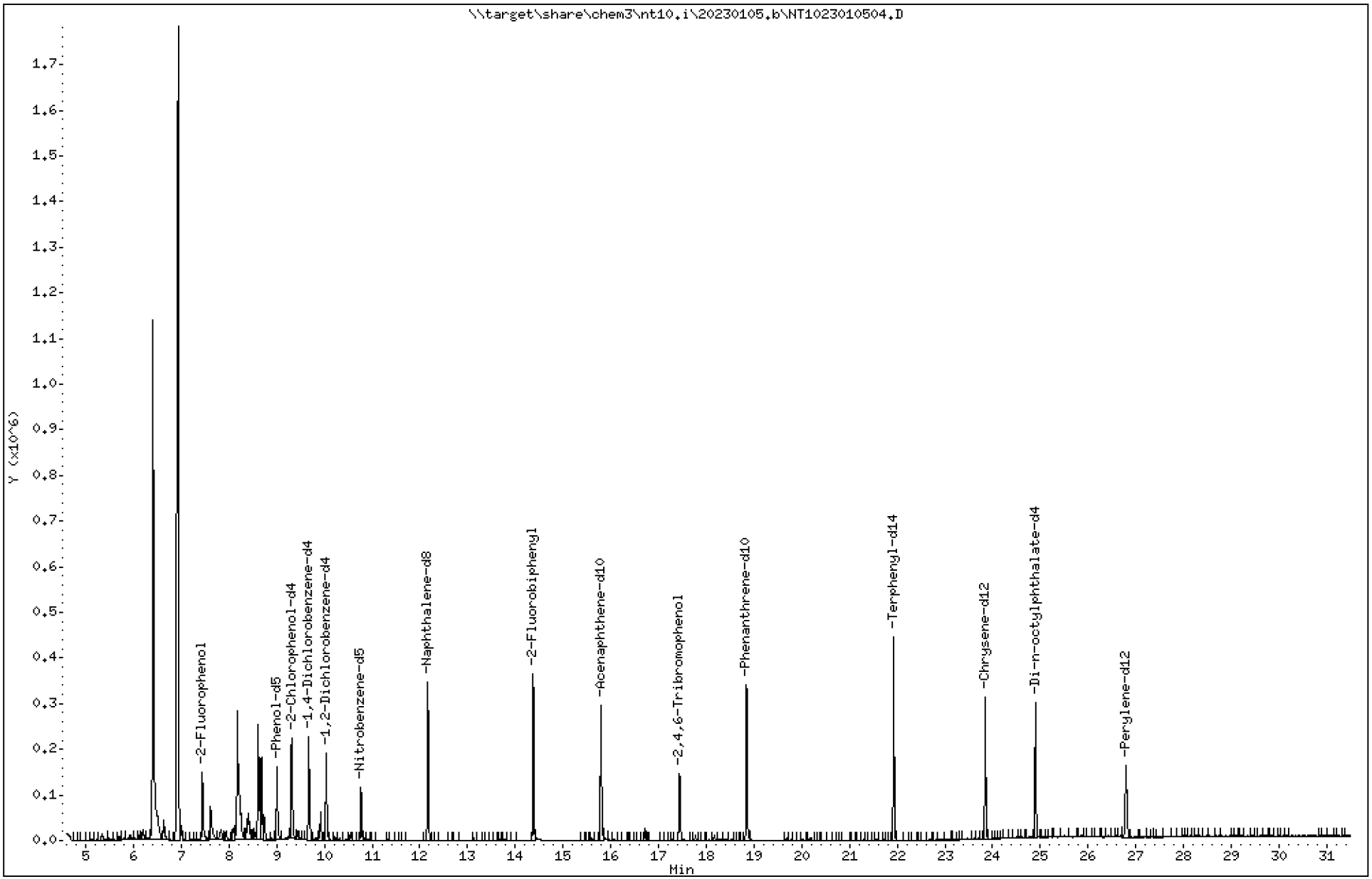
Instrument: nt10.i

Sample Info: BKL0489-BLK1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010504.D

Date : 05-JAN-2023 15:17

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BLK1

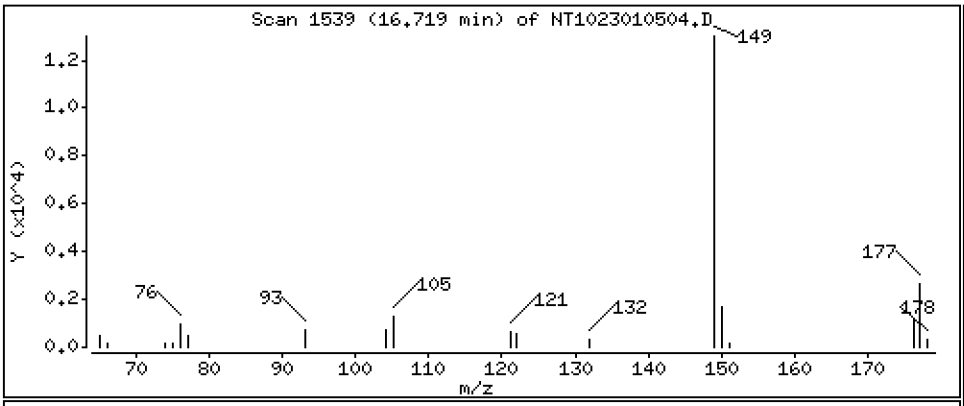
Operator: VTS

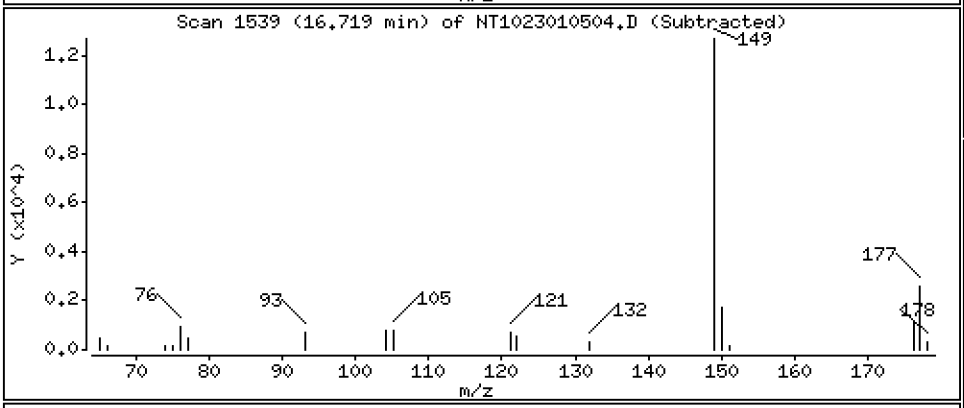
Column phase: ZB-5msi

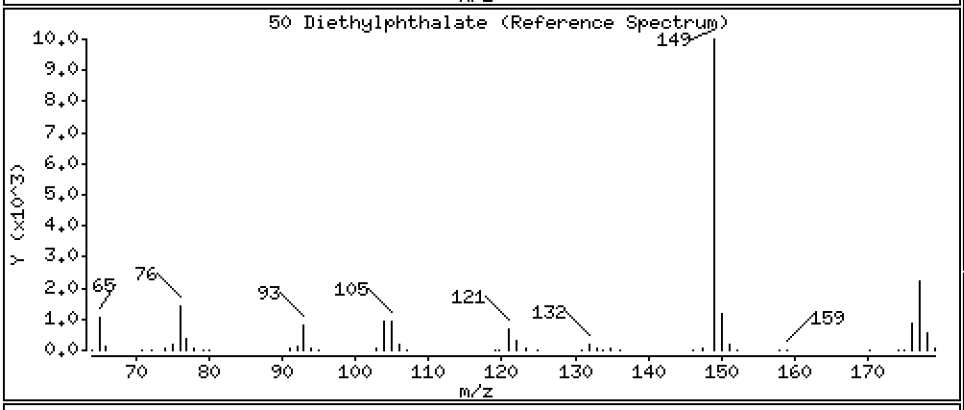
Column diameter: 0.25

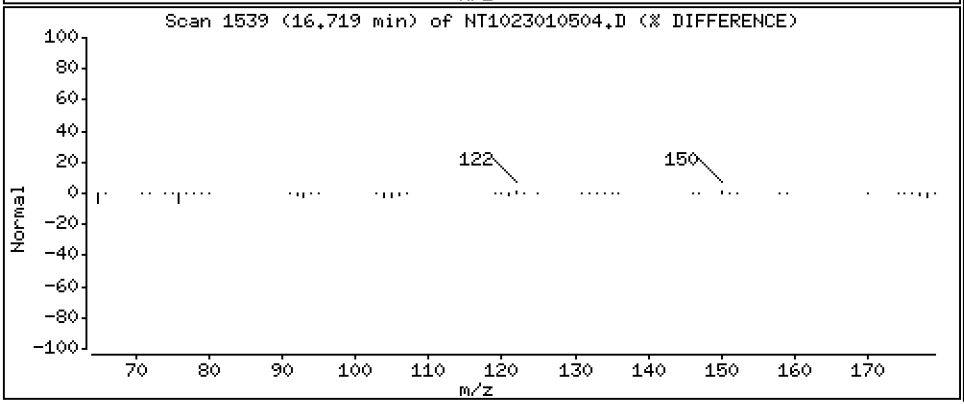
50 Diethylphthalate

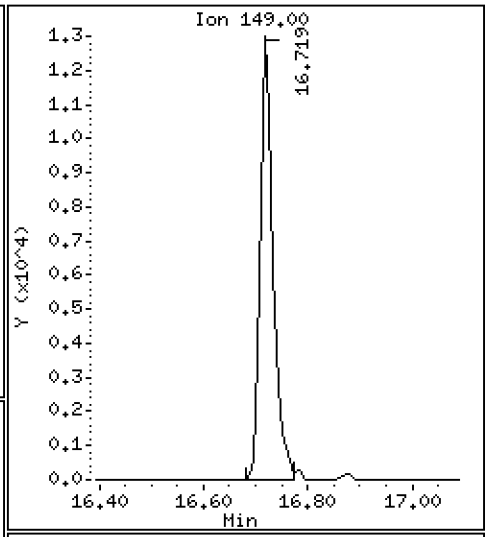
Concentration: 0.4996 ug/mL

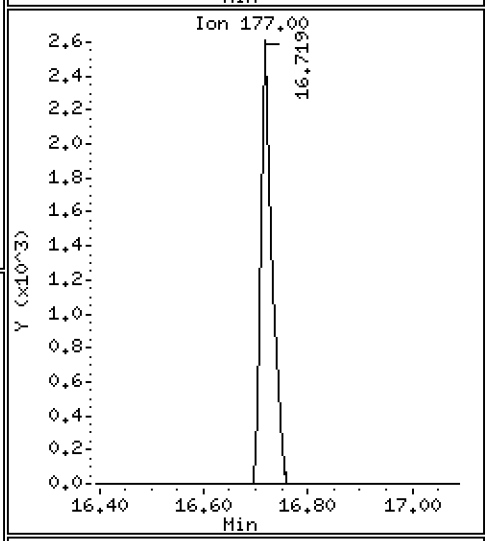


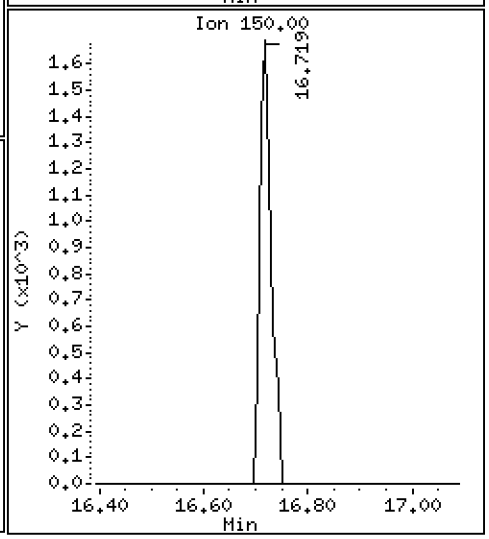












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010504.D
Lab Smp Id: BKL0489-BLK1
Inj Date : 05-JAN-2023 15:17
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

								CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	133244		4.79614	4.796
$	2 Phenol-d5	99	9.005	9.012	(0.931)	167468		5.02198	5.022
	3 Phenol	94	Compound Not Detected.						
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	175425		5.96885	5.969
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.						
	6 2-Chlorophenol	128	Compound Not Detected.						
	7 1,3-Dichlorobenzene	146	Compound Not Detected.						
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	85411		4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.						
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	71424		3.90136	3.901
	12 1,2-Dichlorobenzene	146	Compound Not Detected.						
	11 Benzyl alcohol	108	Compound Not Detected.						
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.						
	13 2-Methylphenol	108	Compound Not Detected.						
	17 Hexachloroethane	117	Compound Not Detected.						
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.						
	15 4-Methylphenol	108	Compound Not Detected.						
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	85006		3.78529	3.785
	19 Nitrobenzene	77	Compound Not Detected.						
	20 Isophorone	82	Compound Not Detected.						
	21 2-Nitrophenol	139	Compound Not Detected.						
	22 2,4-Dimethylphenol	107	Compound Not Detected.						
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.						
	24 Benzoic acid	105	Compound Not Detected.						
	25 2,4-Dichlorophenol	162	Compound Not Detected.						
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.						
*	27 Naphthalene-d8	136	12.170	12.185	(1.000)	339220		4.00000	
	28 Naphthalene	128	Compound Not Detected.						
	29 4-Chloroaniline	127	Compound Not Detected.						
	30 Hexachlorobutadiene	225	Compound Not Detected.						
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.						
	32 2-Methylnaphthalene	142	Compound Not Detected.						
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.						

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.375	14.398	(0.910)	226241	4.33036	4.330
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	141024	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.719	16.742	(1.059)	22408	0.49958	0.4996
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	14535	5.10846	5.108
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.842	18.865	(1.000)	268312	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	Compound Not Detected.					
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	184416	4.97711	4.977
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.850	23.873	(1.000)	152913	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	Compound Not Detected.					
*	134	Di-n-octylphthalate-d4	153	24.903	24.926	(1.000)	327735	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.792	26.822	(1.000)	102385	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010504.D
Lab Smp Id: BKL0489-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	85411	4.51
27 Naphthalene-d8	307034	153517	614068	339220	10.48
42 Acenaphthene-d10	140557	70279	281114	141024	0.33
59 Phenanthrene-d10	243620	121810	487240	268312	10.14
69 Chrysene-d12	144852	72426	289704	152913	5.56
134 Di-n-octylphthala	387178	193589	774356	327735	-15.35
77 Perylene-d12	106683	53342	213366	102385	-4.03

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.79	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010504.D

Lab ID: BKL0489-BLK1
nt10.i, ABN.m, 05-JAN-2023 15:17

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

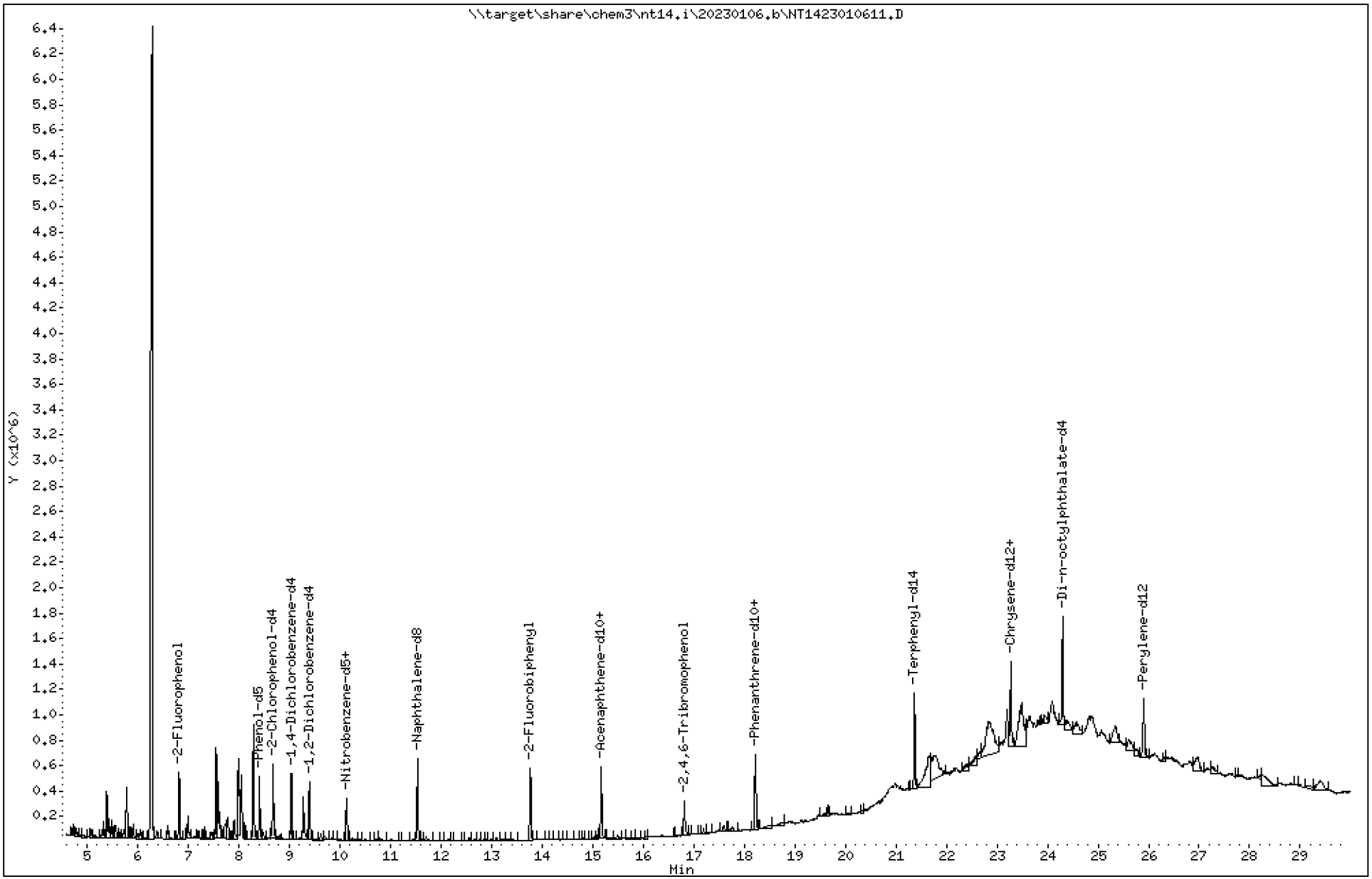
Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0585-BLK1	File ID:	NT1423010611.D
Sampled:	N/A	Prepared:	12/27/22 11:08	Analyzed:	01/06/23 17:38
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BKL0585	Sequence:	SLA0068	Calibration:	FL00066
Instrument:	NT14	Column:	ZB-5MS		

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.00	495	98.9	37 - 120	Q

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010611.D
Date : 06-JAN-2023 17:38
Client ID:
Sample Info: BKL0585-BLK1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

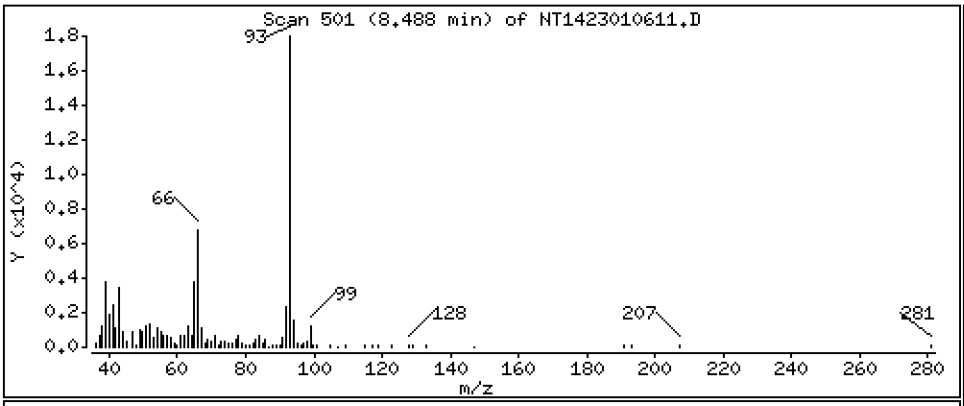
Operator: VTS

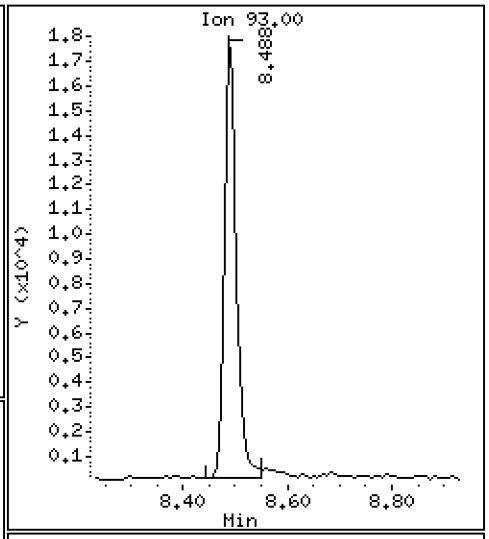
Column phase: ZB-5msi

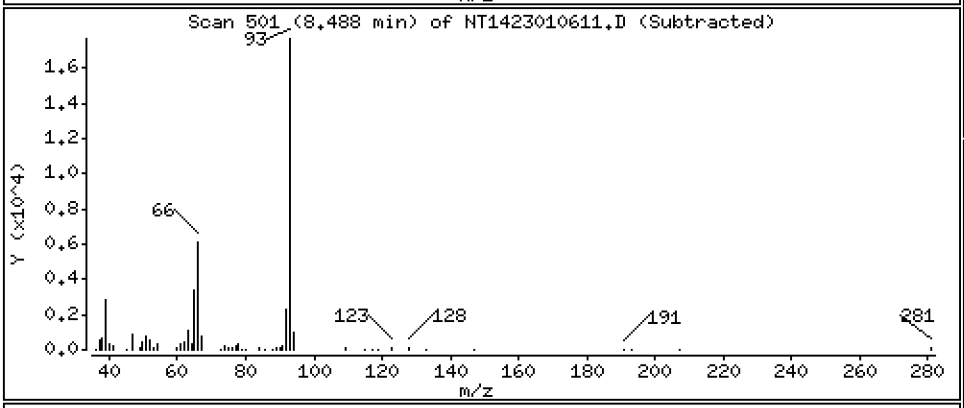
Column diameter: 0.25

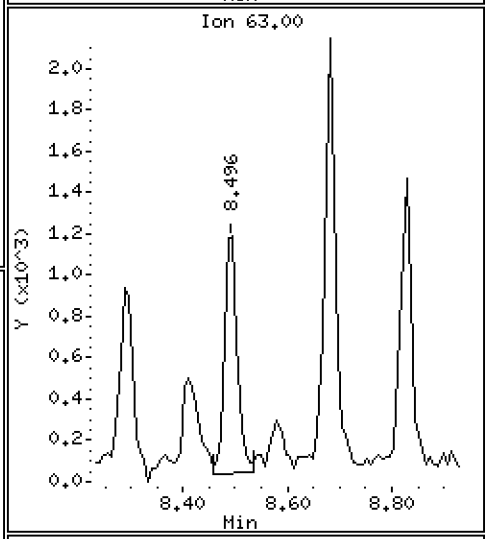
4 Bis(2-Chloroethyl)ether

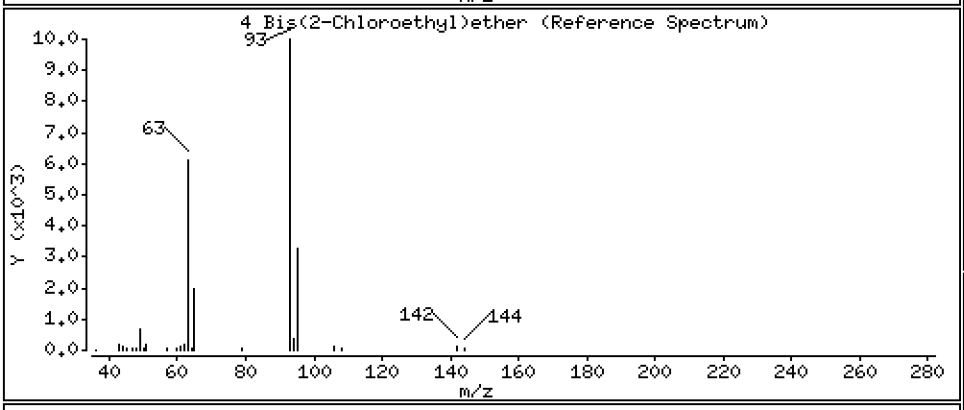
Concentration: 0.6827 ug/mL

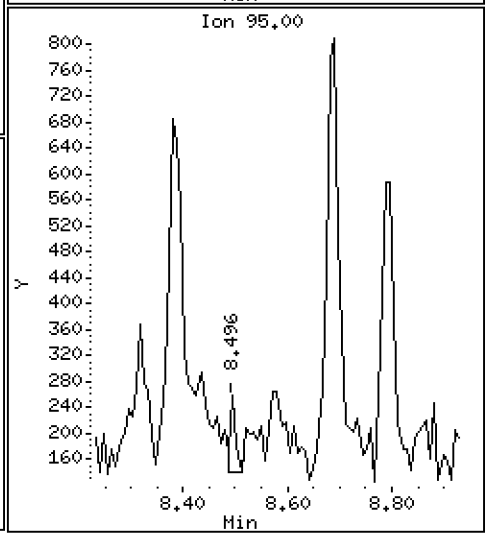


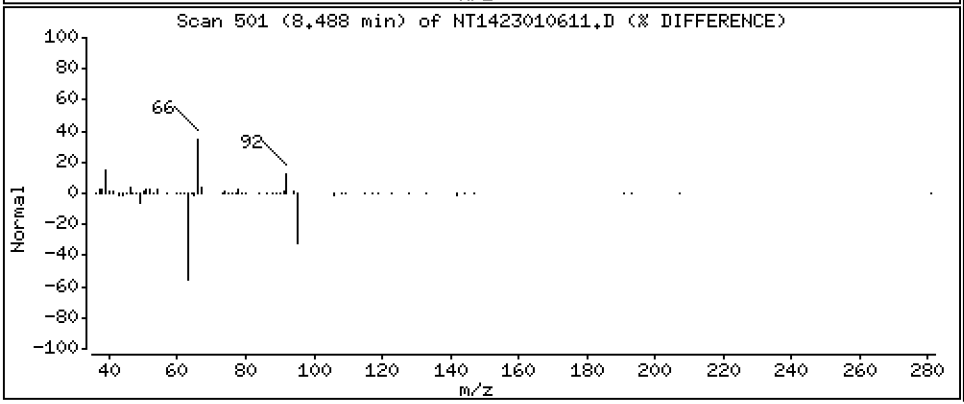












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010611.D

Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

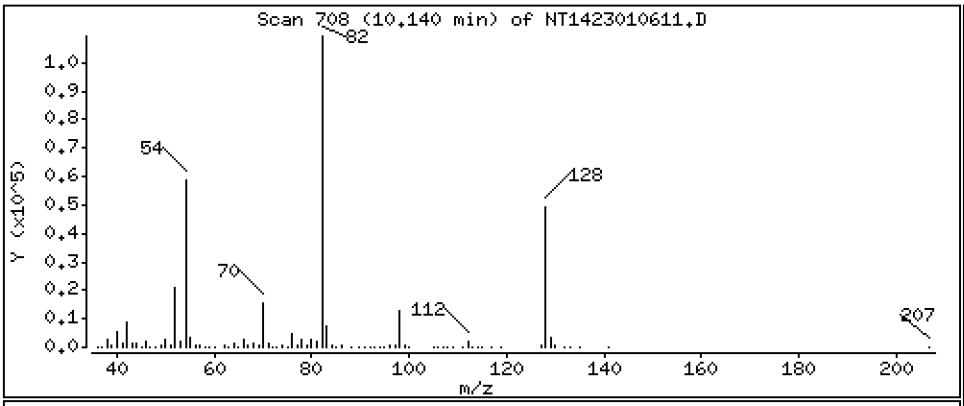
Operator: VTS

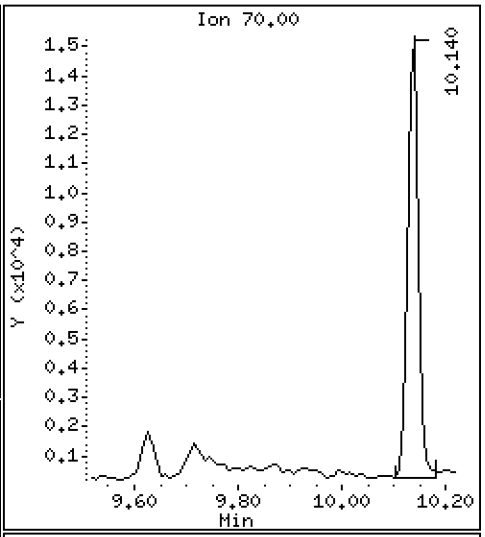
Column phase: ZB-5msi

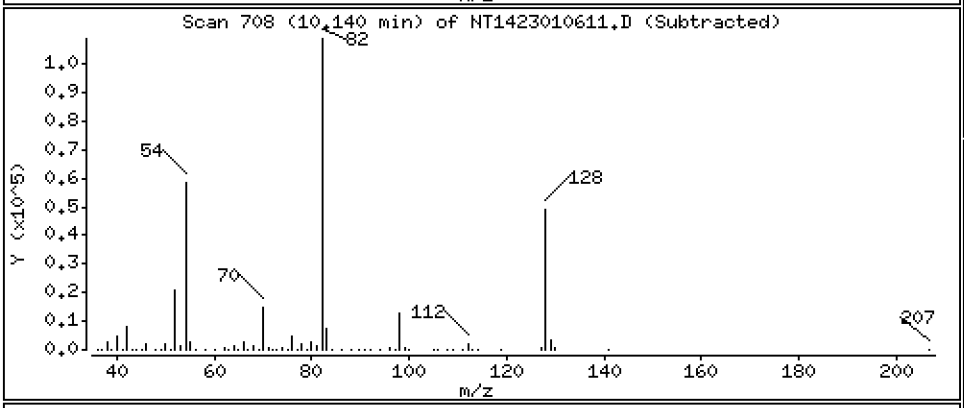
Column diameter: 0.25

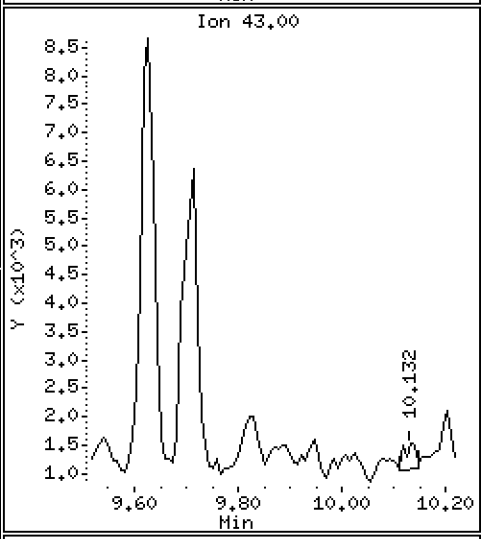
16 N-Nitroso-di-n-propylamine

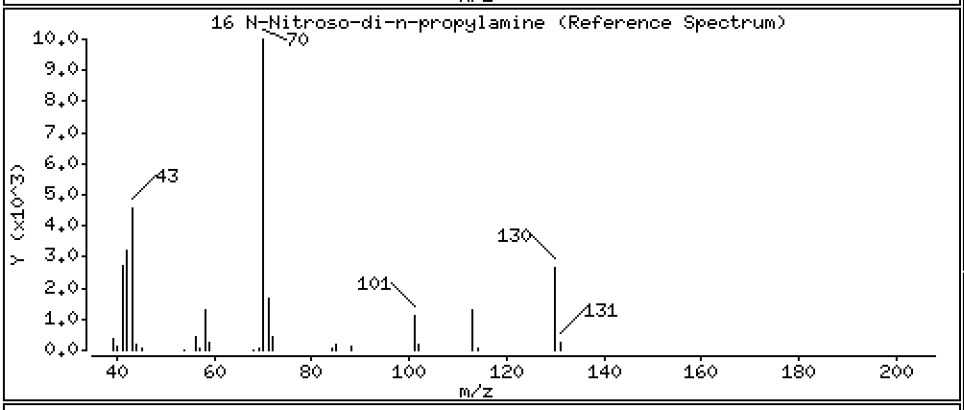
Concentration: 0.8531 ug/mL

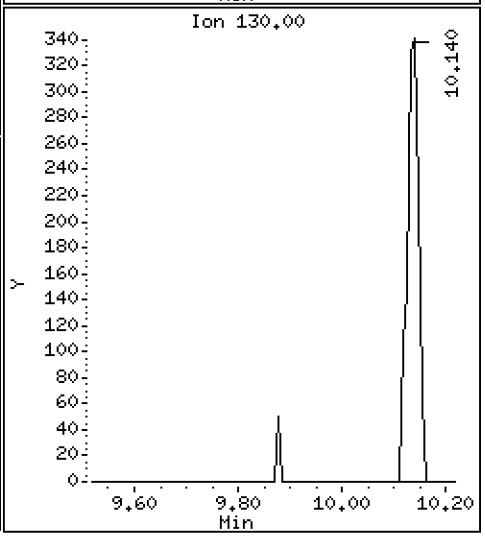


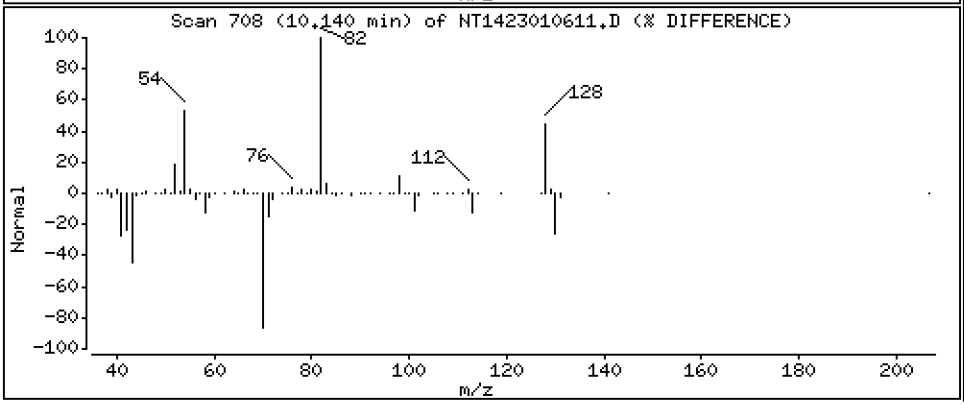












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

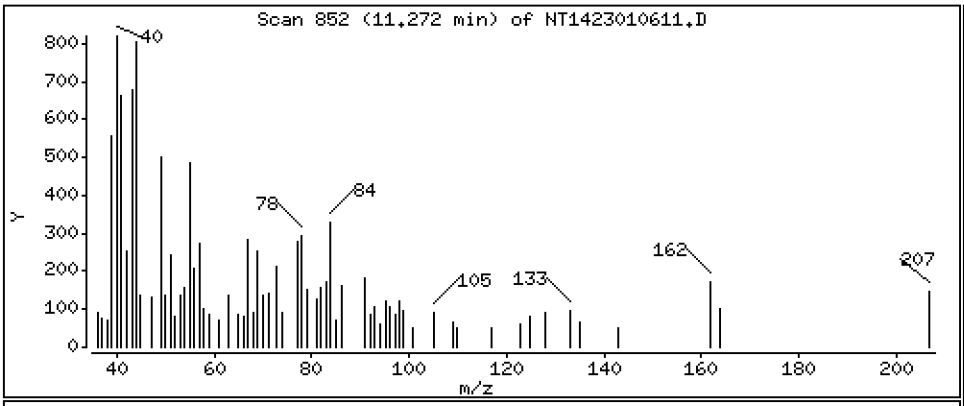
Operator: VTS

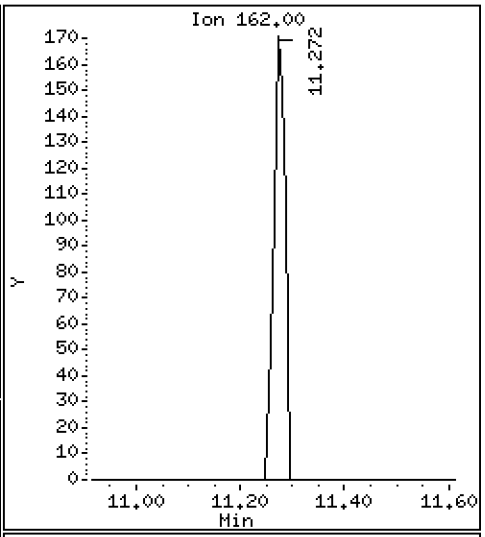
Column phase: ZB-5msi

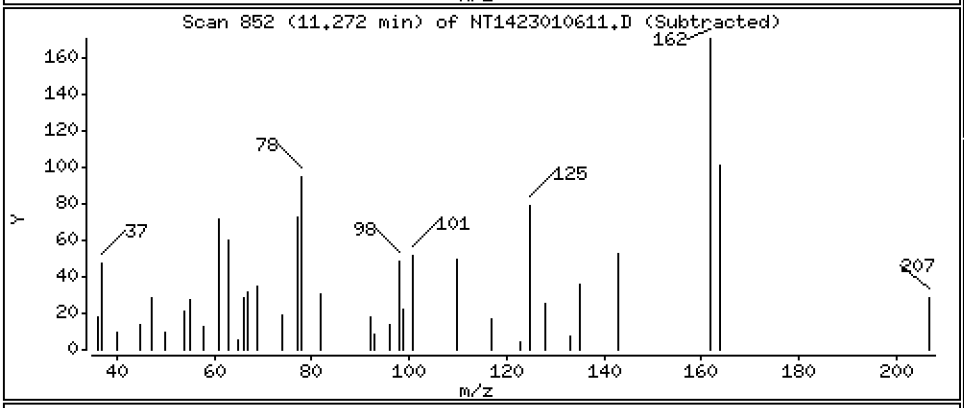
Column diameter: 0.25

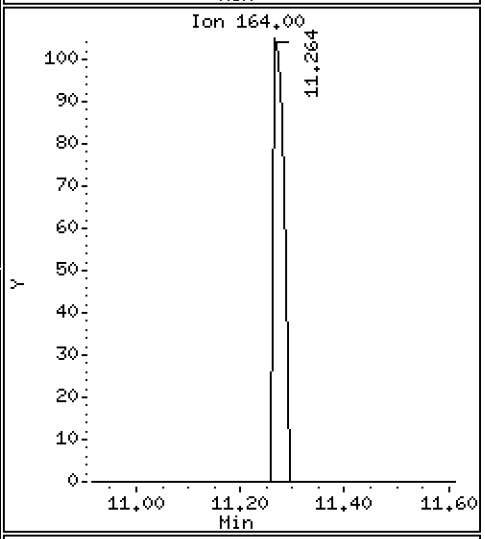
25 2,4-Dichlorophenol

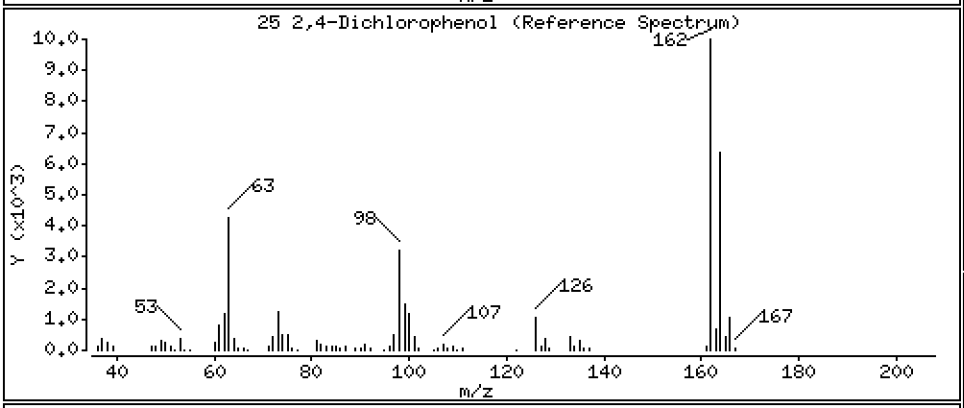
Concentration: 0.007565 ug/mL

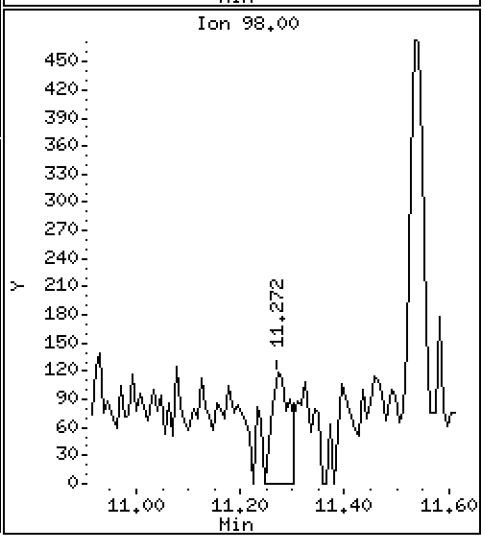


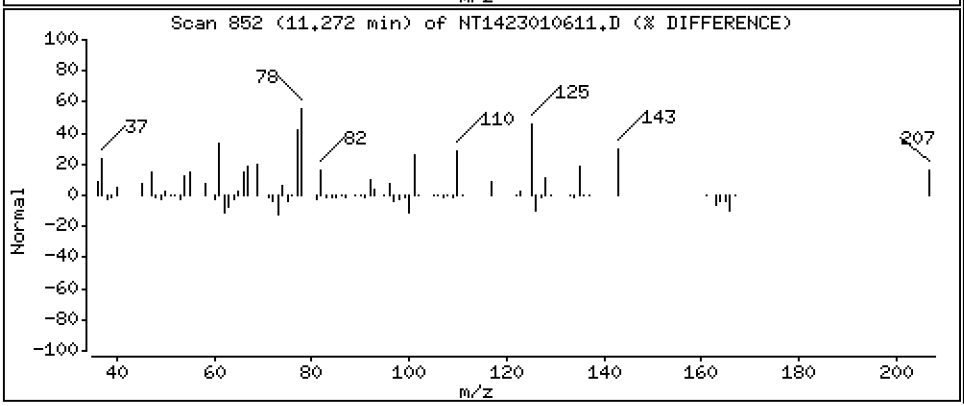












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

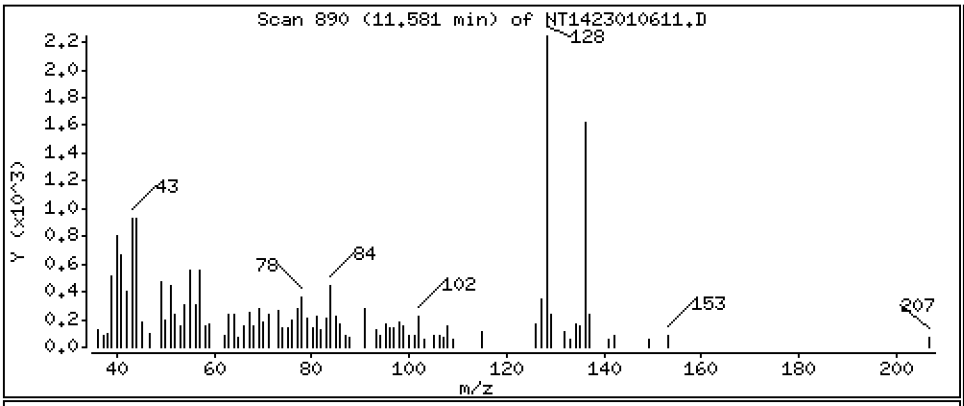
Operator: VTS

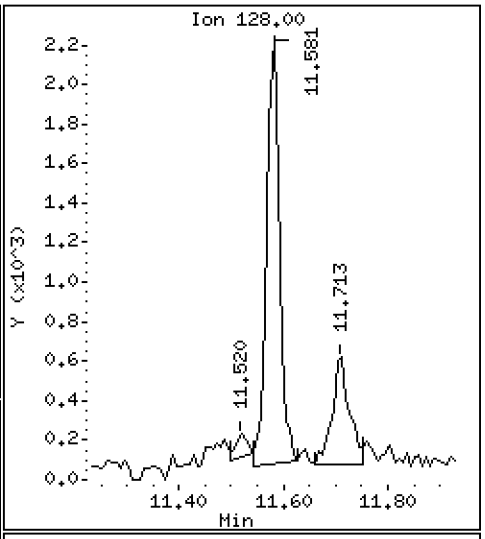
Column phase: ZB-5msi

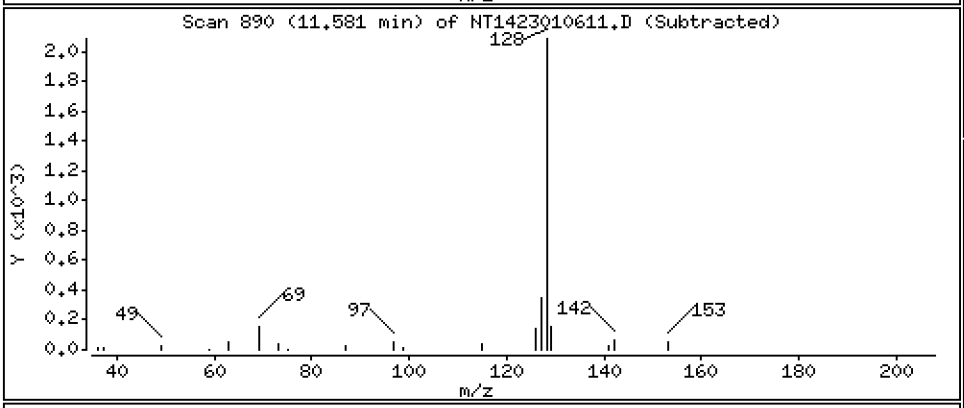
Column diameter: 0.25

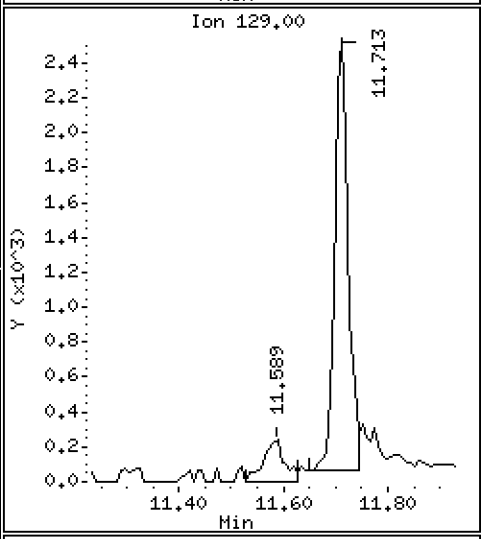
28 Naphthalene

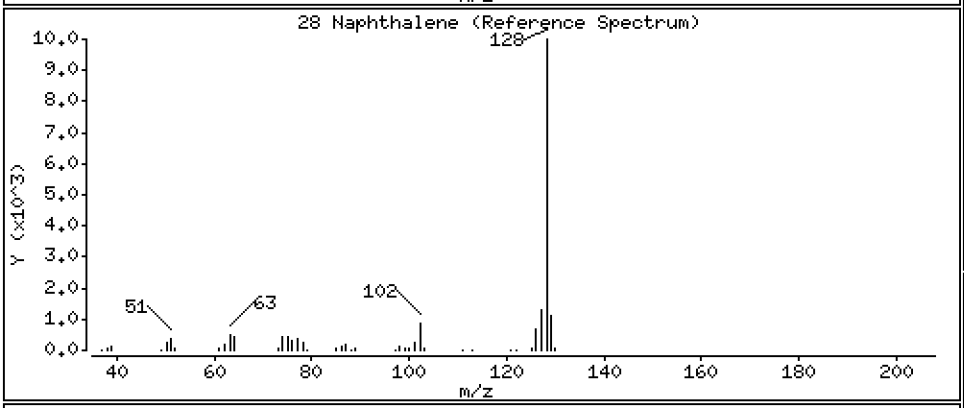
Concentration: 0.02921 ug/mL

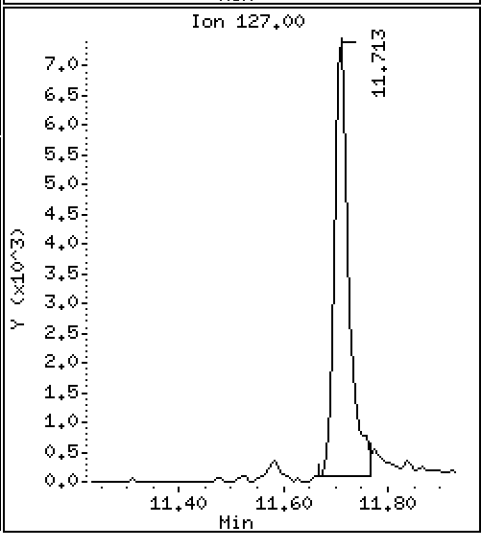


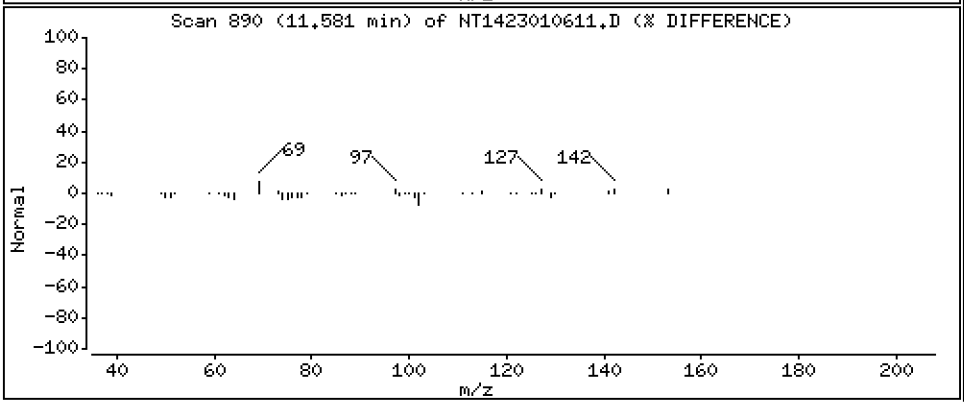












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

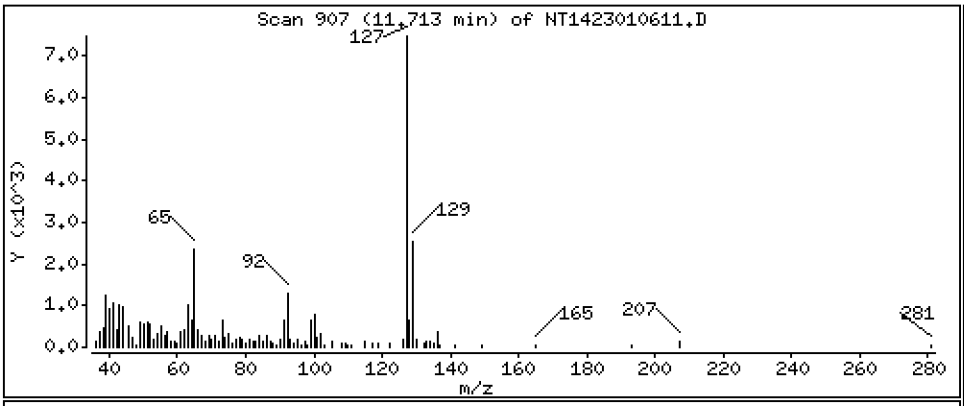
Operator: VTS

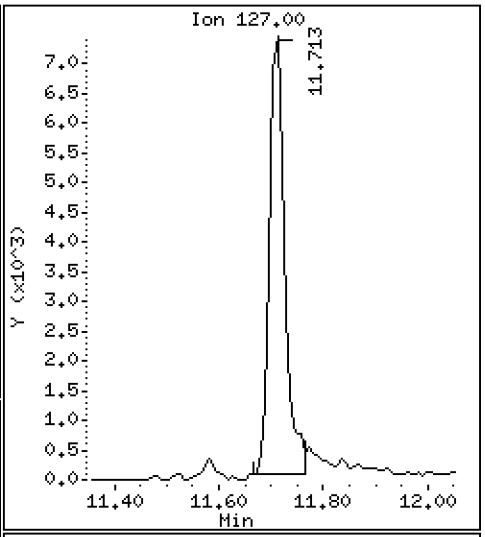
Column phase: ZB-5msi

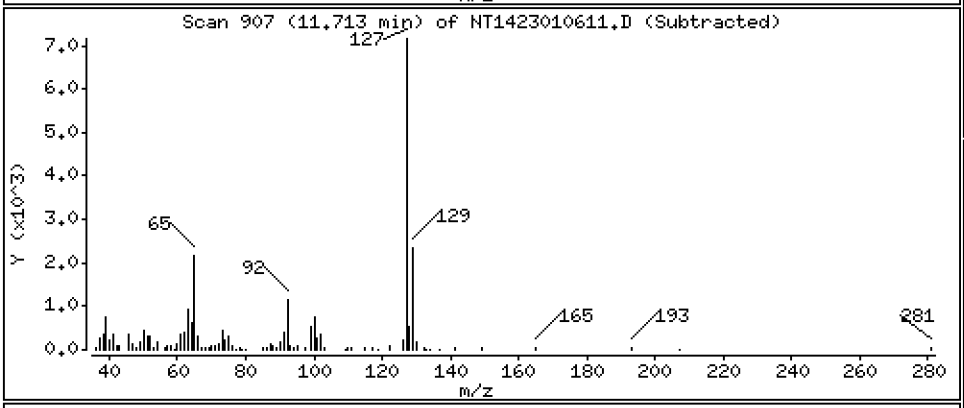
Column diameter: 0.25

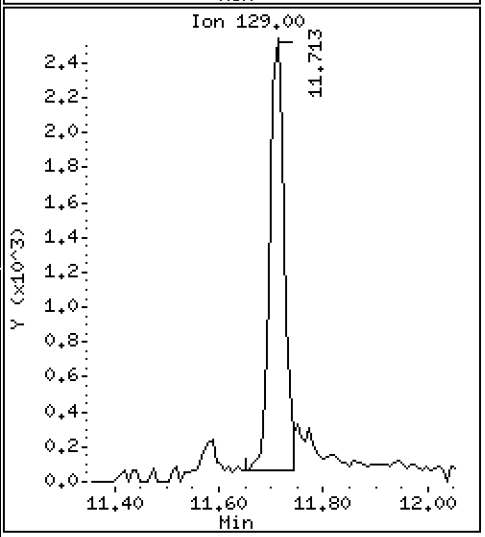
29 4-Chloroaniline

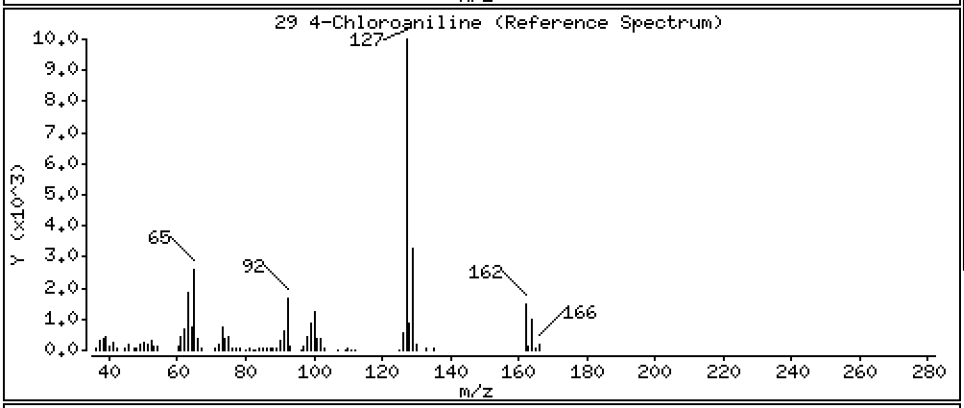
Concentration: 0.2945 ug/mL

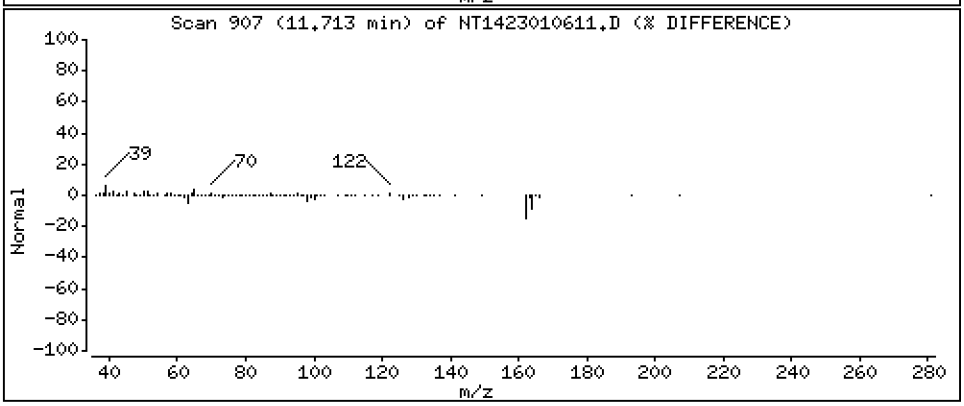












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

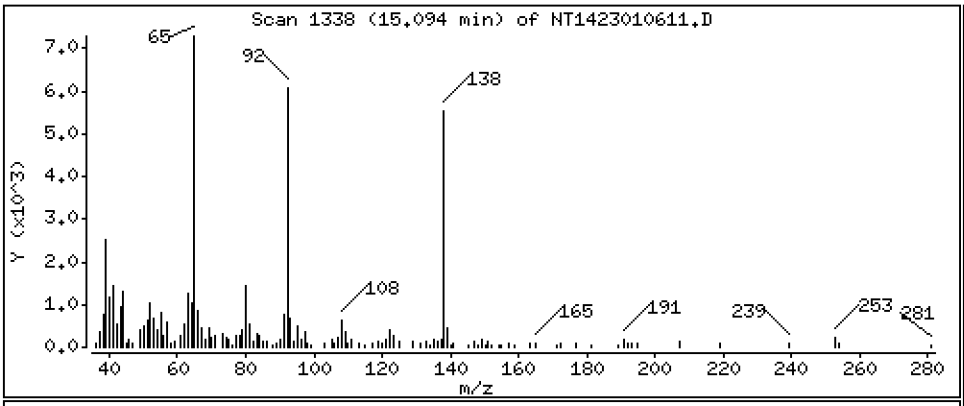
Operator: VTS

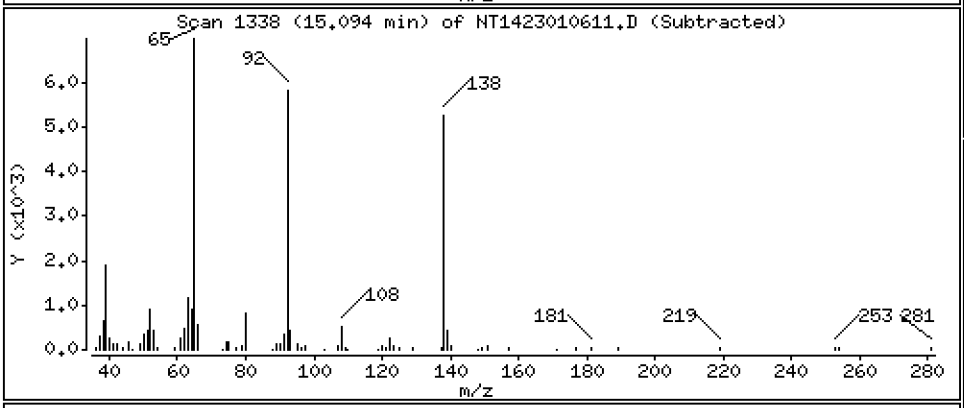
Column phase: ZB-5msi

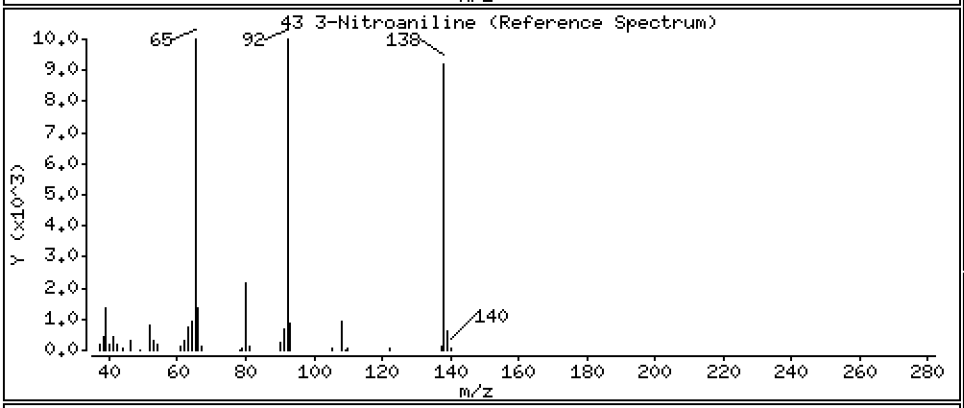
Column diameter: 0.25

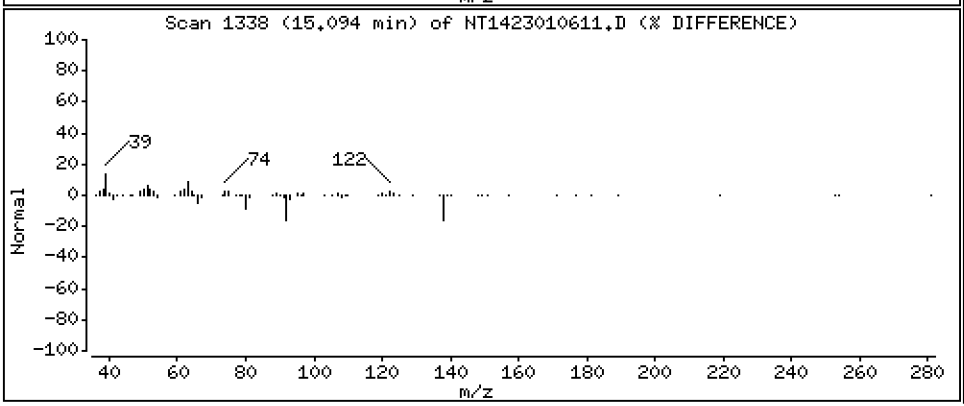
43 3-Nitroaniline

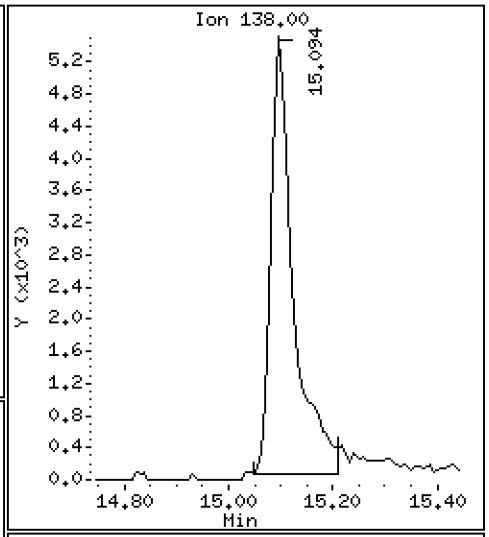
Concentration: 0.8845 ug/mL

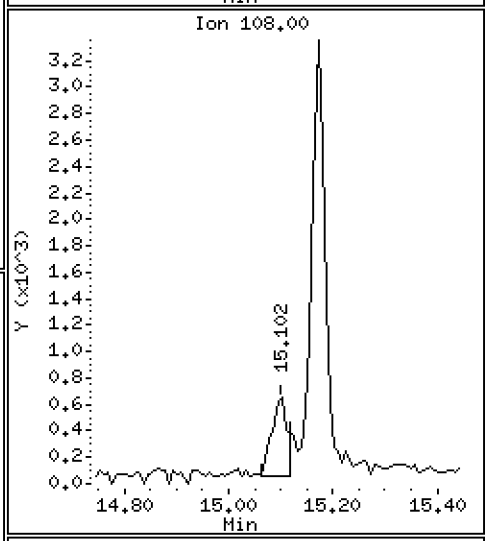


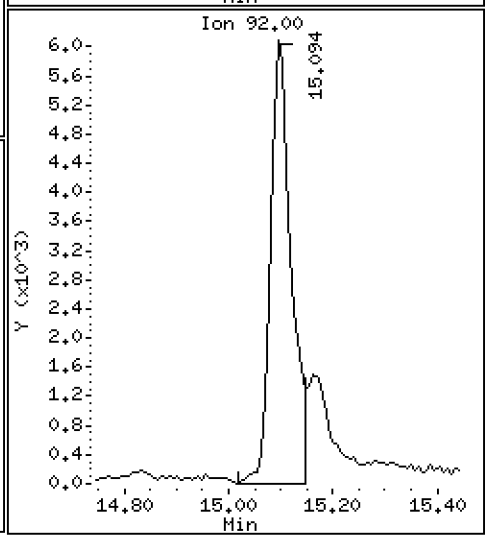












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

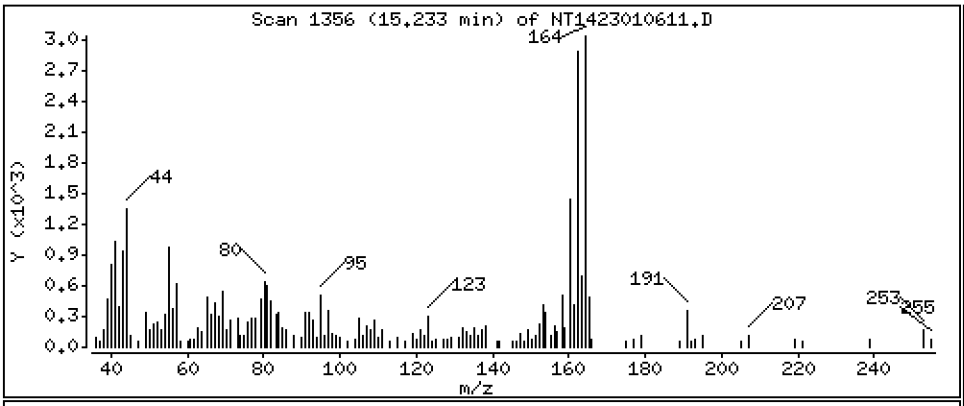
Operator: VTS

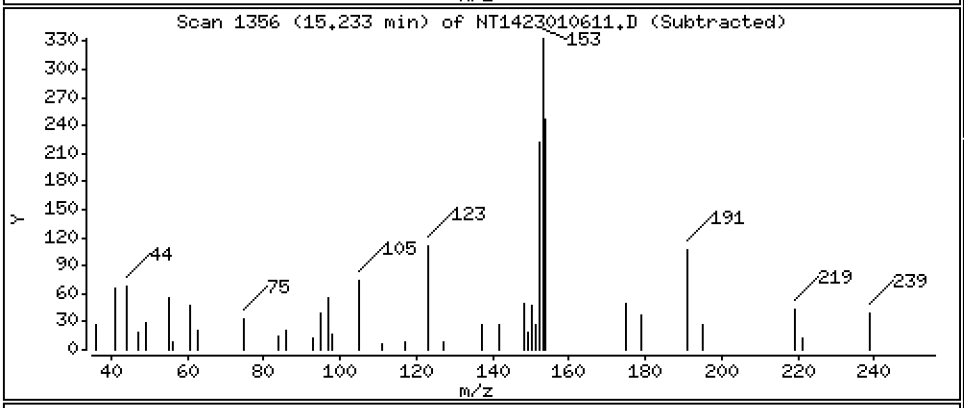
Column phase: ZB-5msi

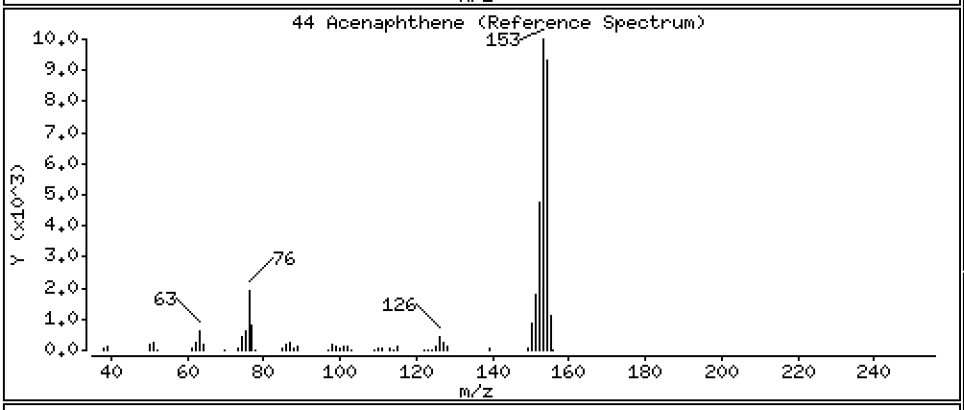
Column diameter: 0.25

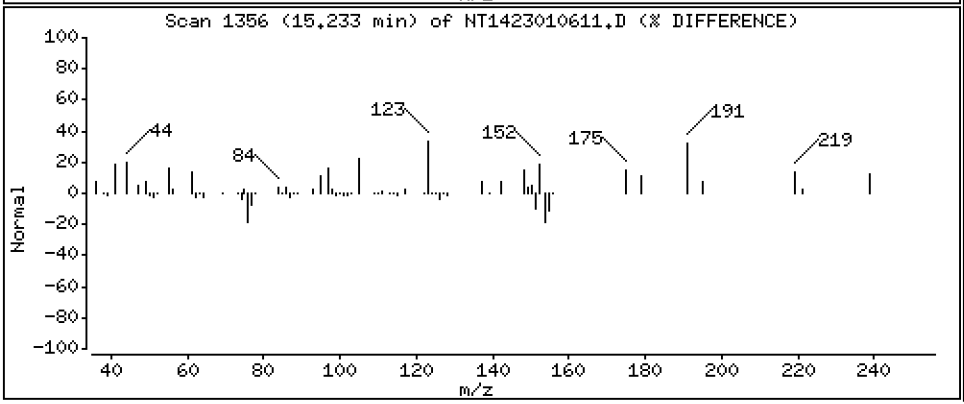
44 Acenaphthene

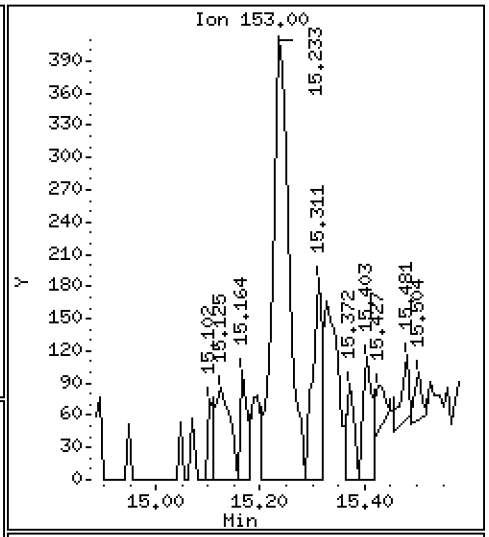
Concentration: 0.01394 ug/mL

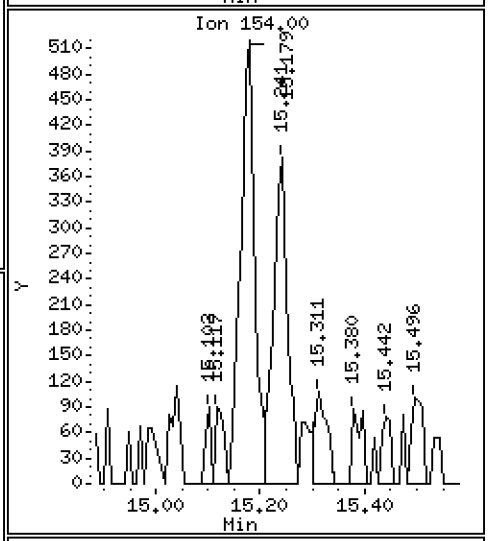


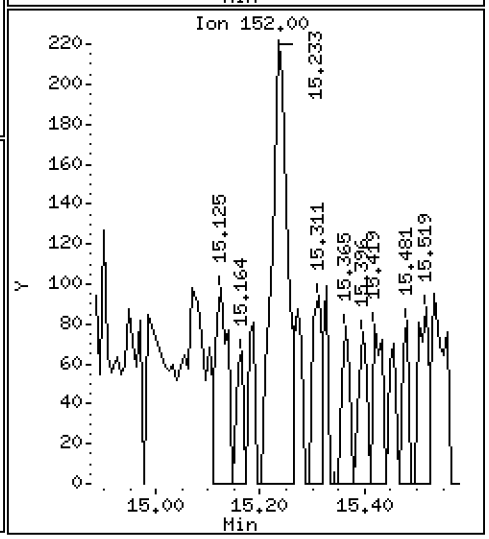












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

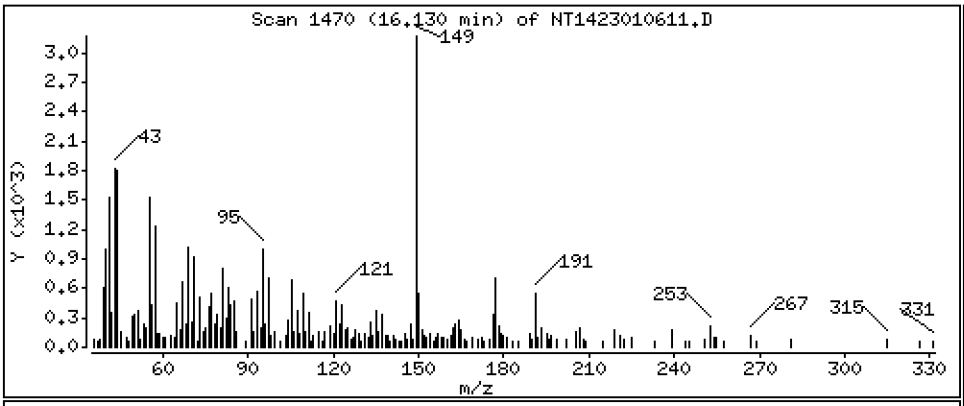
Operator: VTS

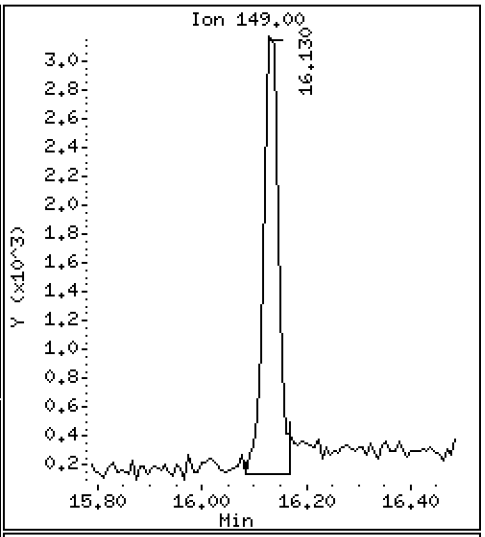
Column phase: ZB-5msi

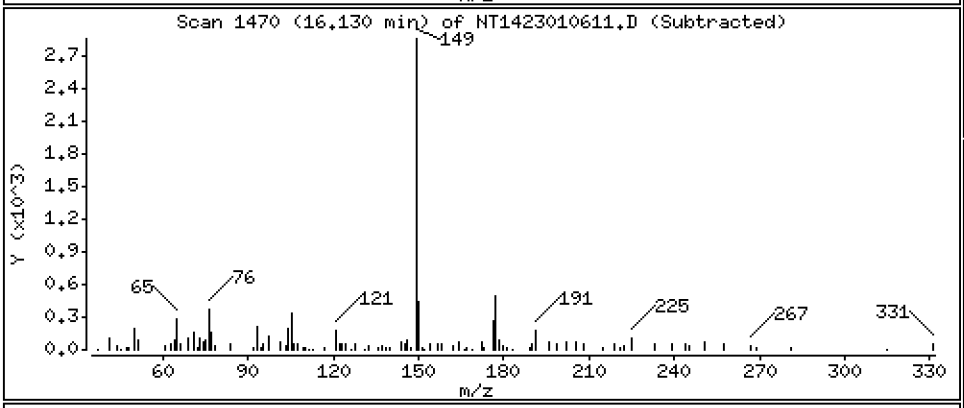
Column diameter: 0.25

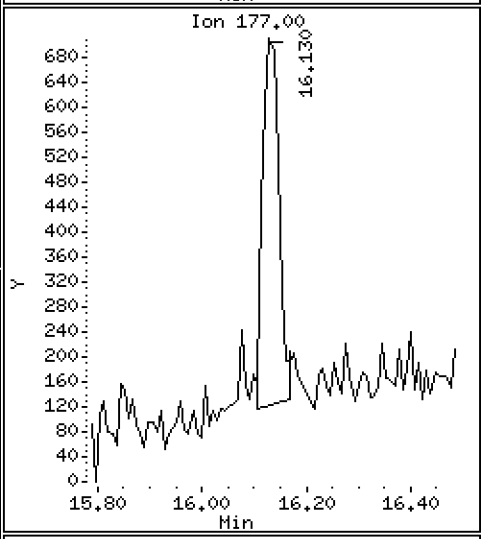
50 Diethylphthalate

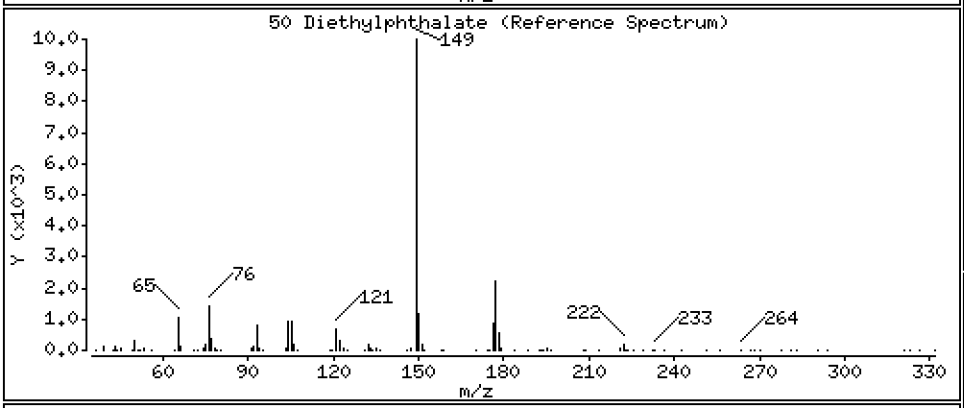
Concentration: 0.06533 ug/mL

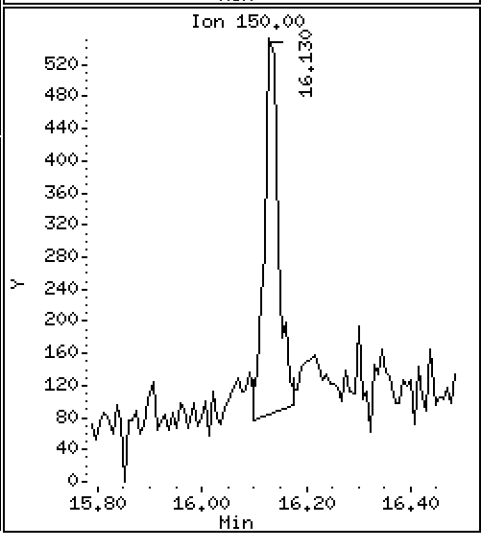


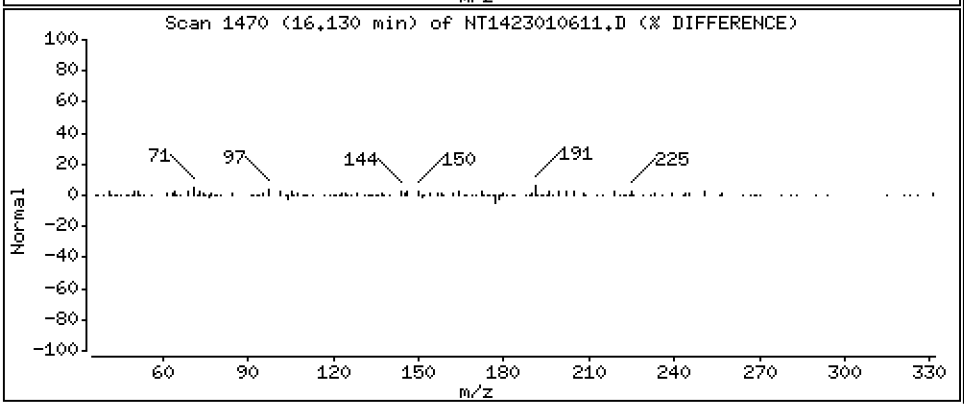












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

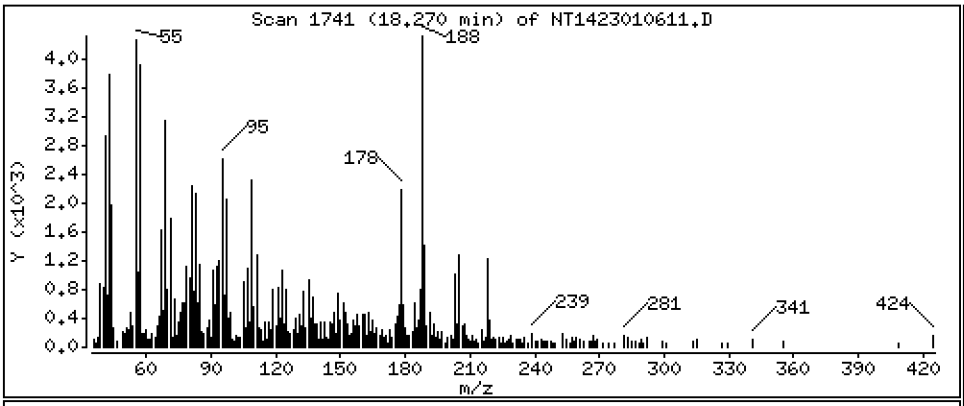
Operator: VTS

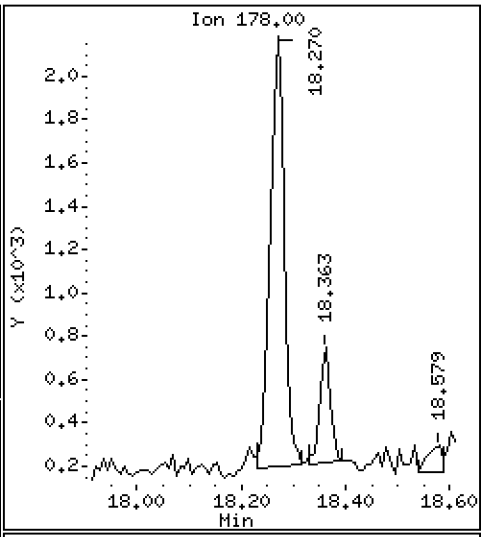
Column phase: ZB-5msi

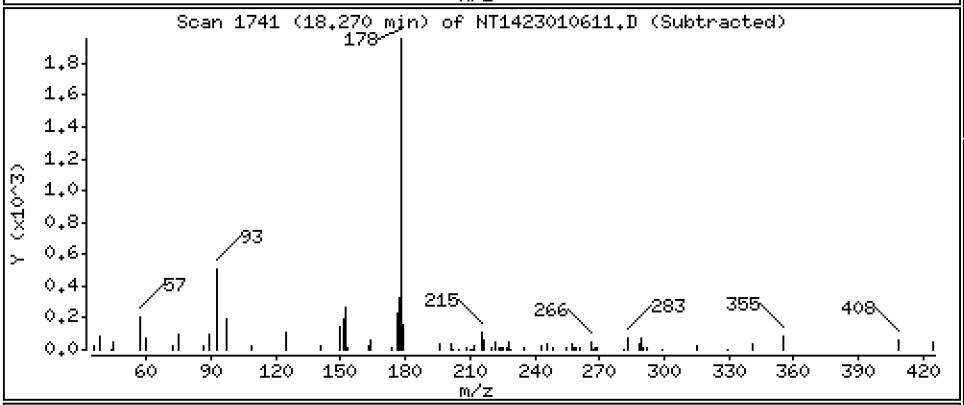
Column diameter: 0.25

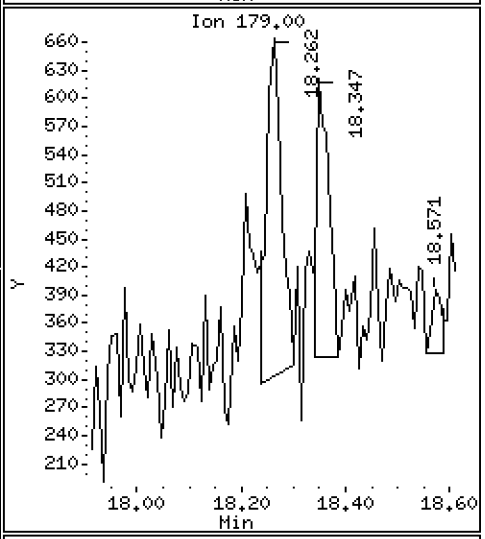
60 Phenanthrene

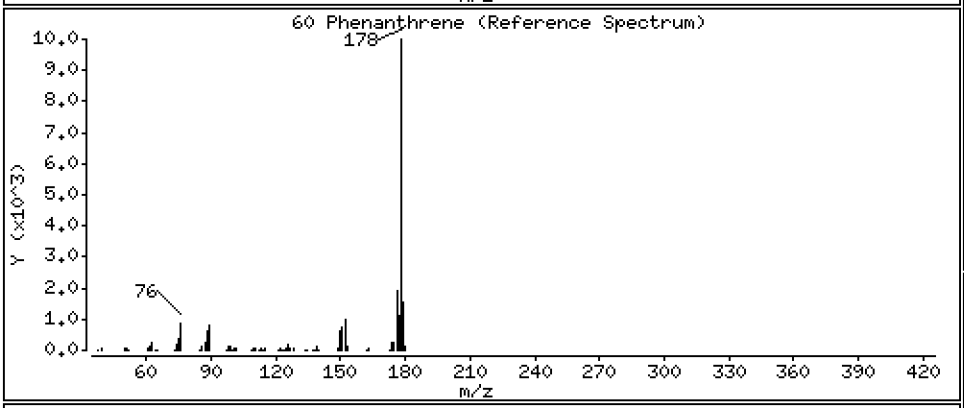
Concentration: 0.03321 ug/mL

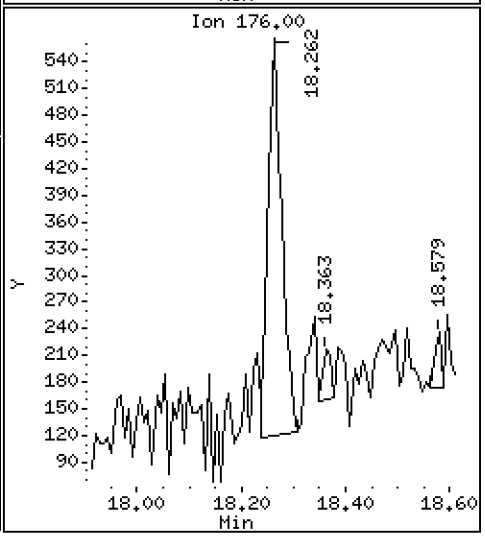


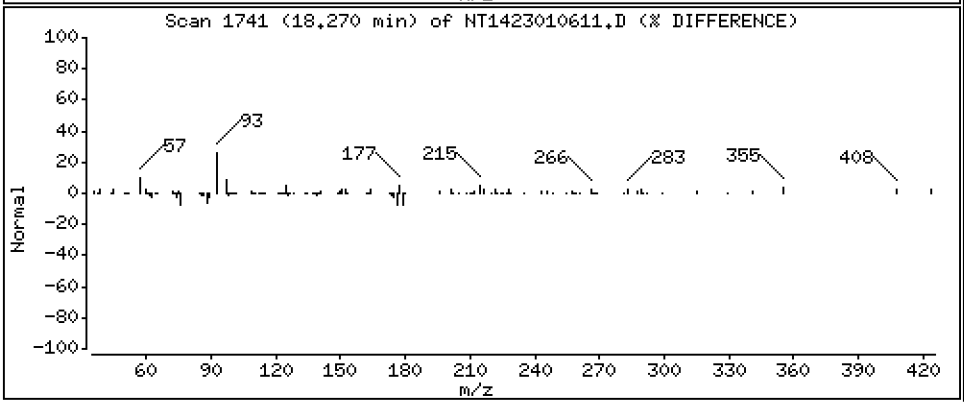












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

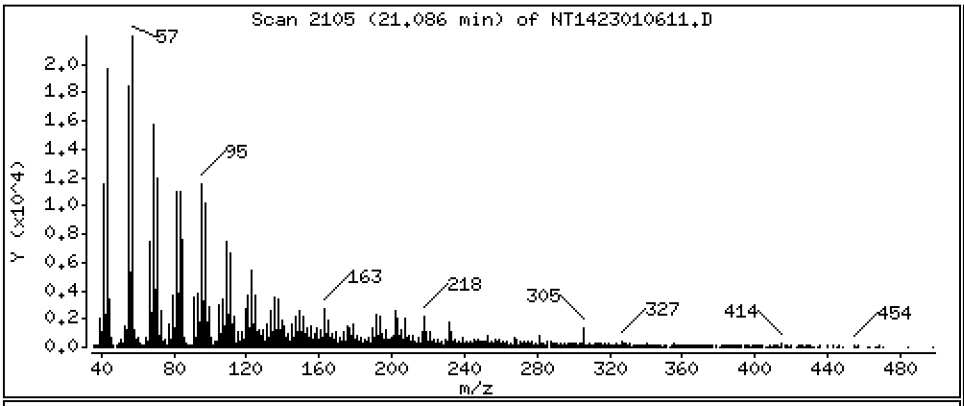
Operator: VTS

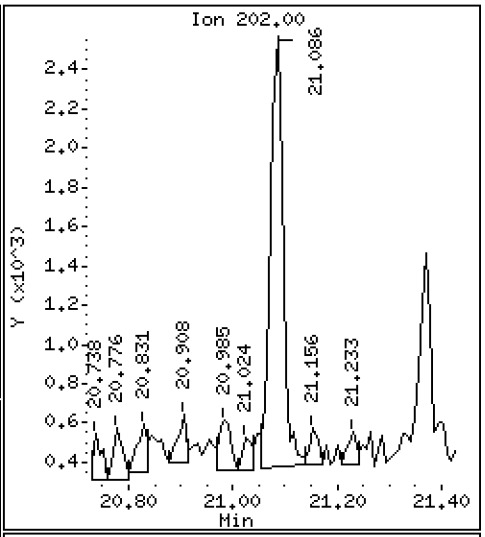
Column phase: ZB-5msi

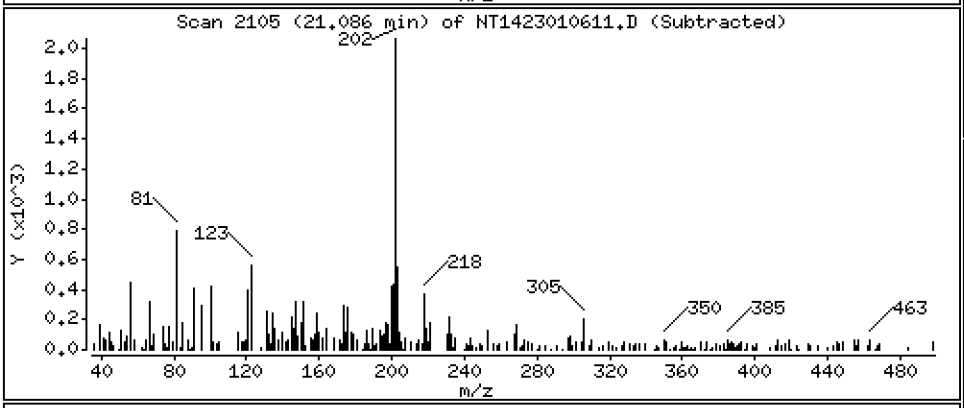
Column diameter: 0.25

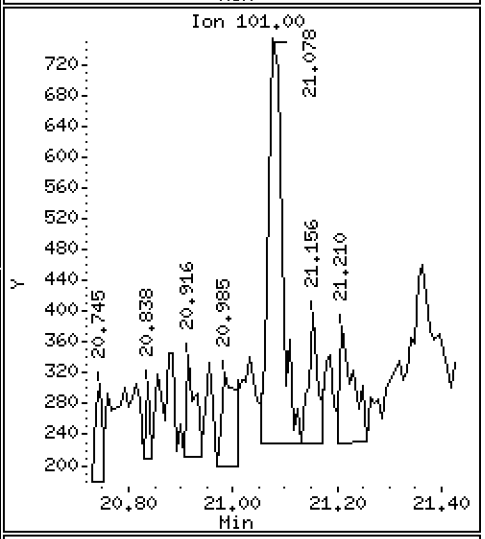
65 Pyrene

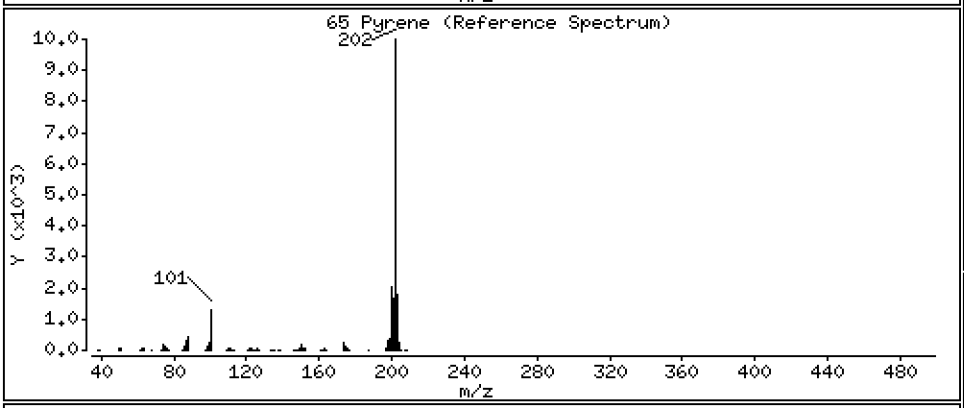
Concentration: 0.03208 ug/mL

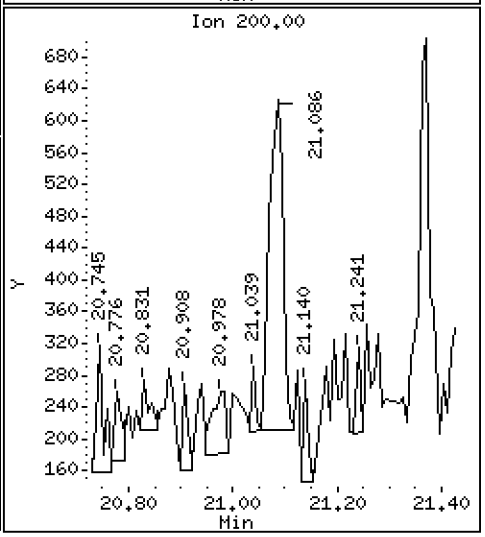


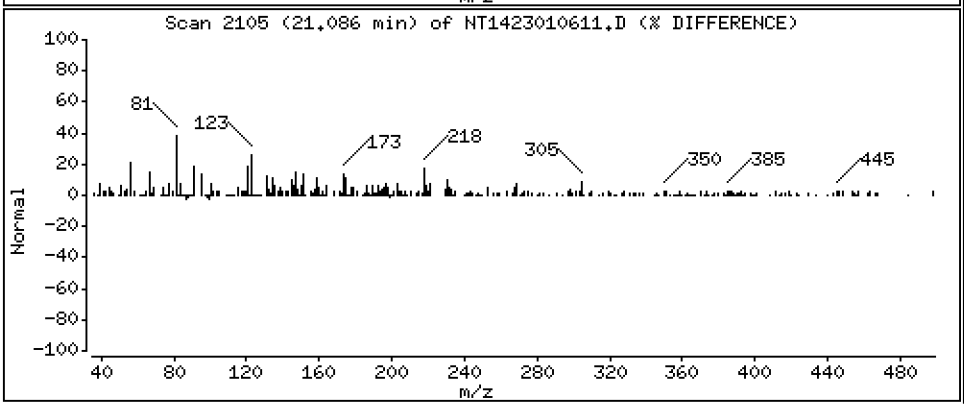












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

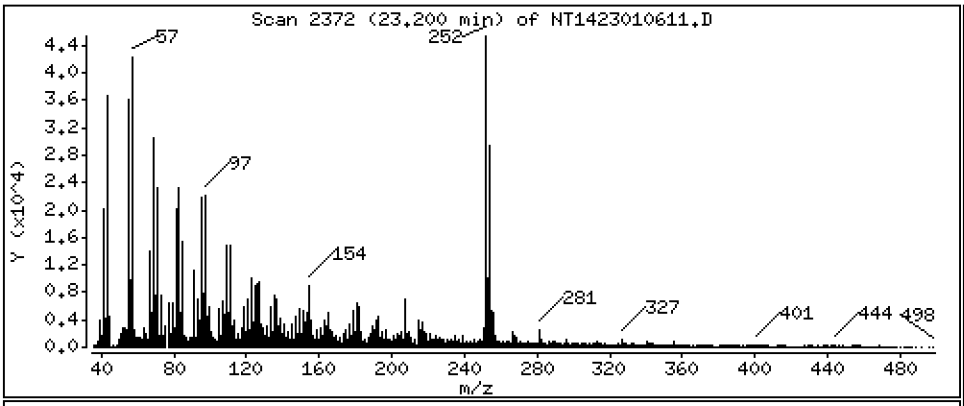
Operator: VTS

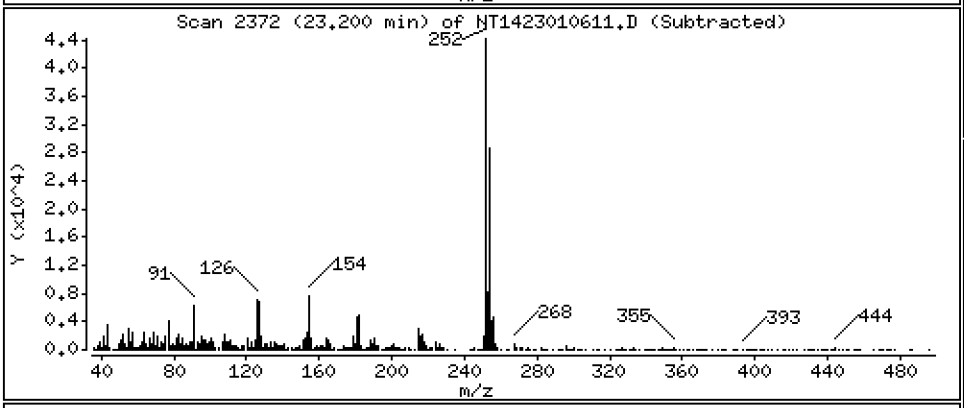
Column phase: ZB-5msi

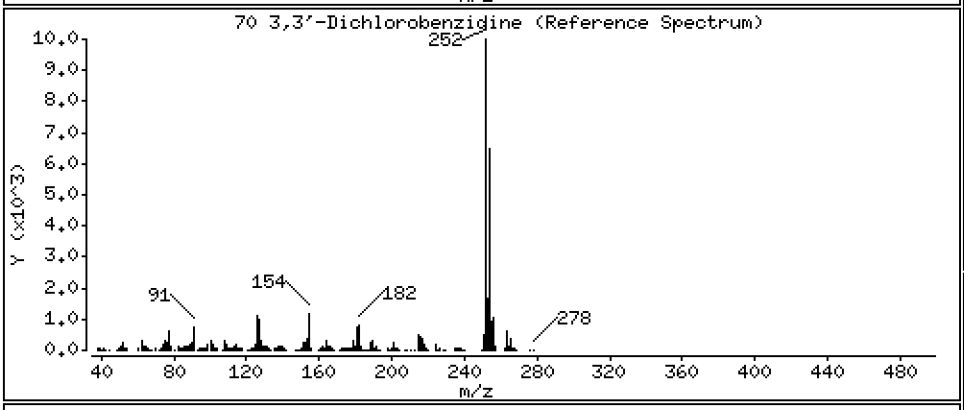
Column diameter: 0.25

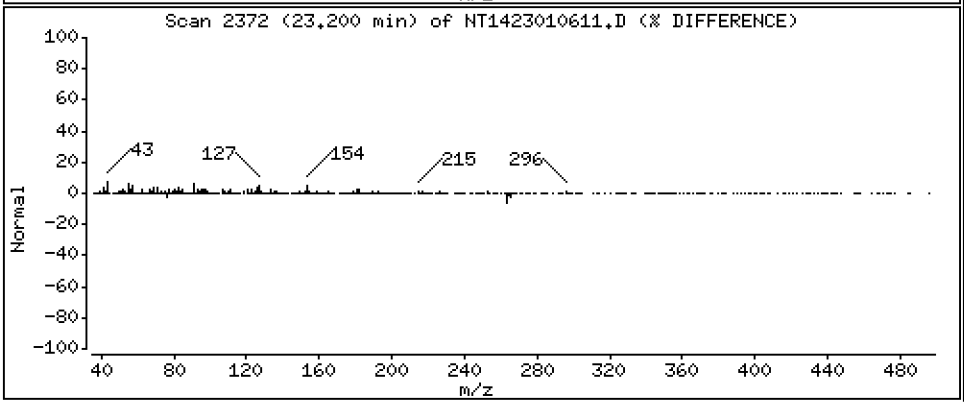
70 3,3'-Dichlorobenzidine

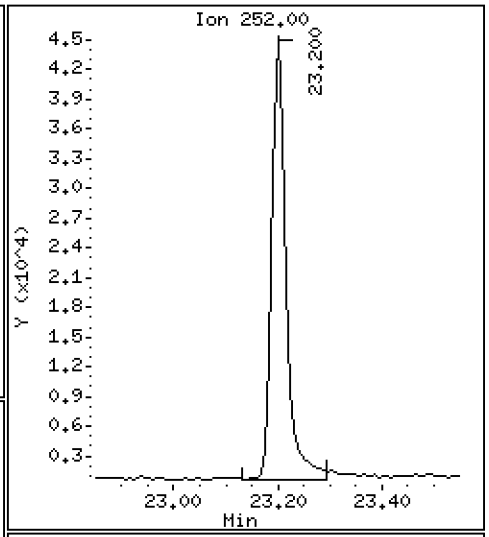
Concentration: 2.671 ug/mL

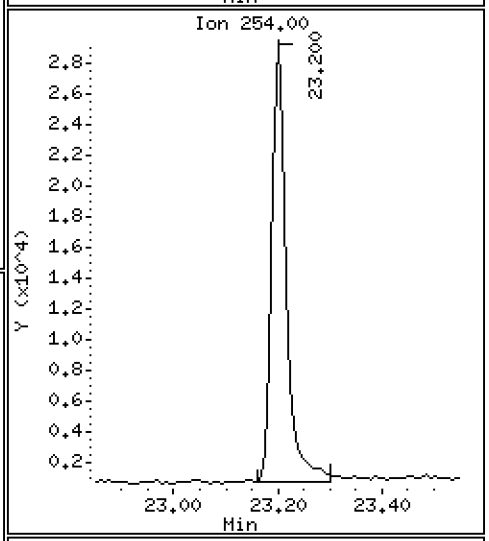


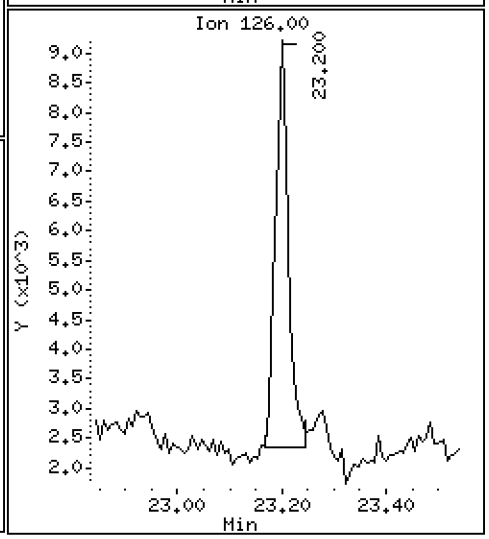












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

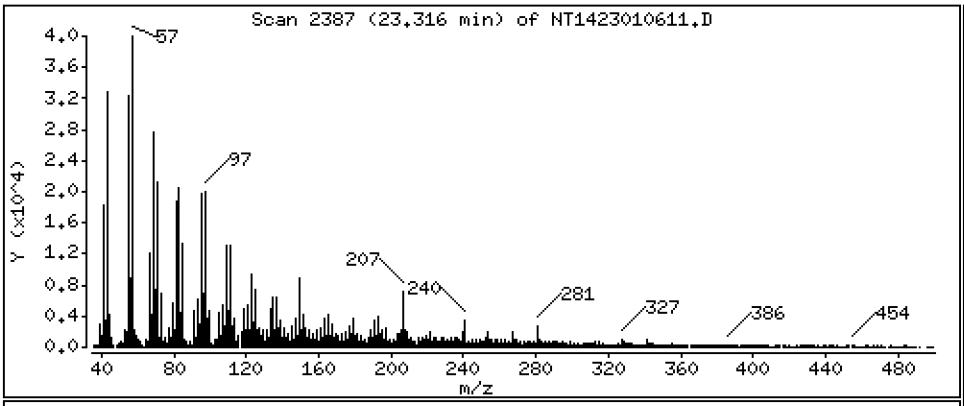
Operator: VTS

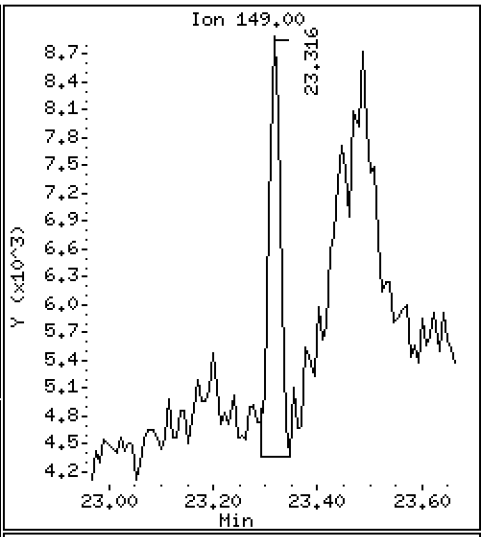
Column phase: ZB-5msi

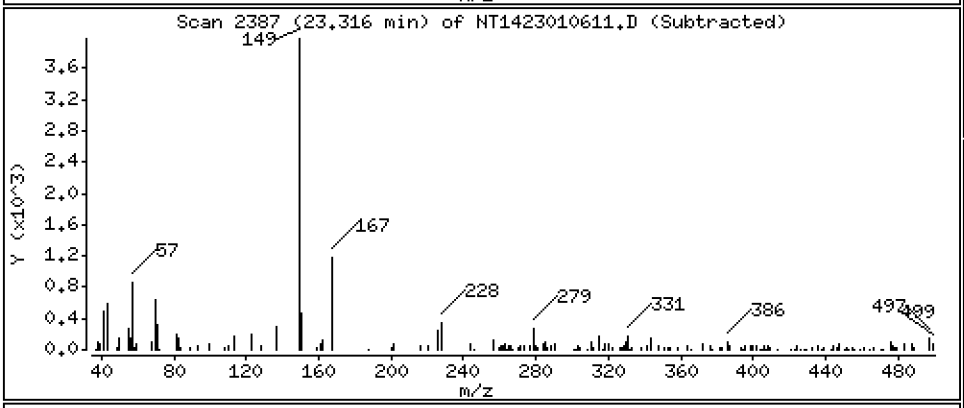
Column diameter: 0.25

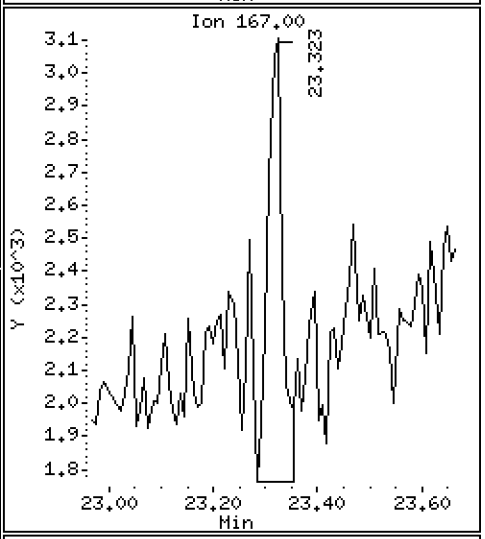
72 bis(2-Ethylhexyl)phthalate

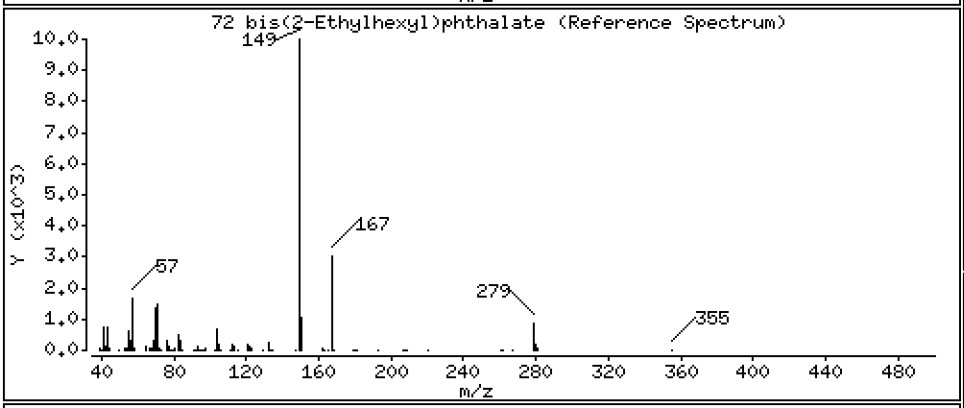
Concentration: 0.08828 ug/mL

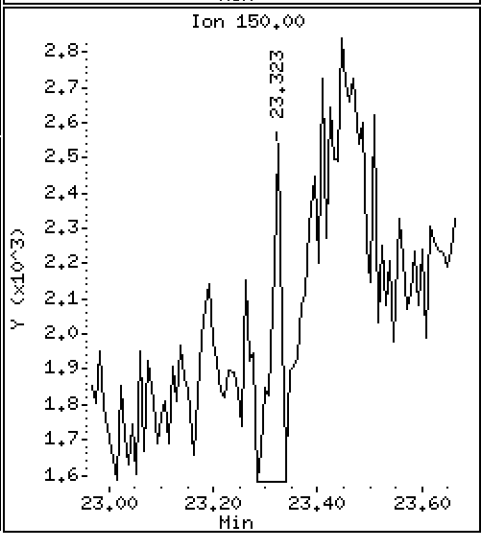


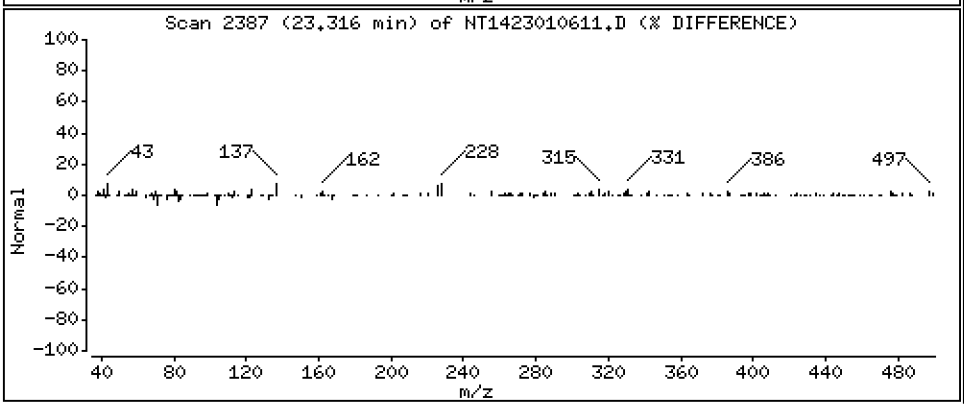












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

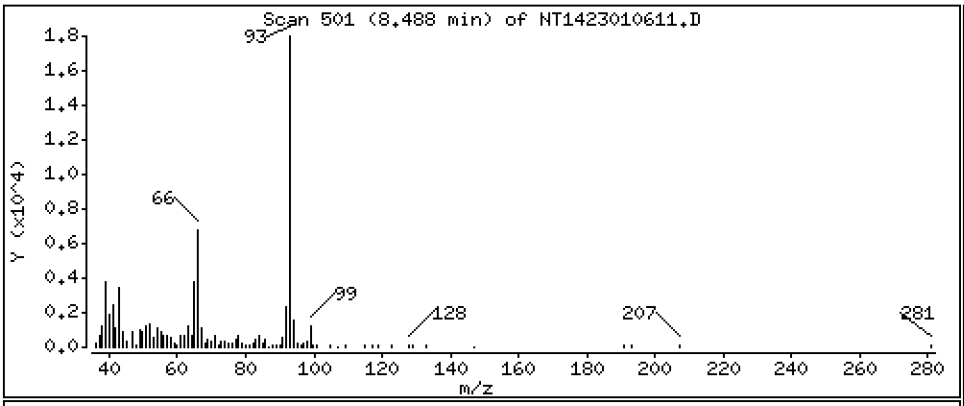
Operator: VTS

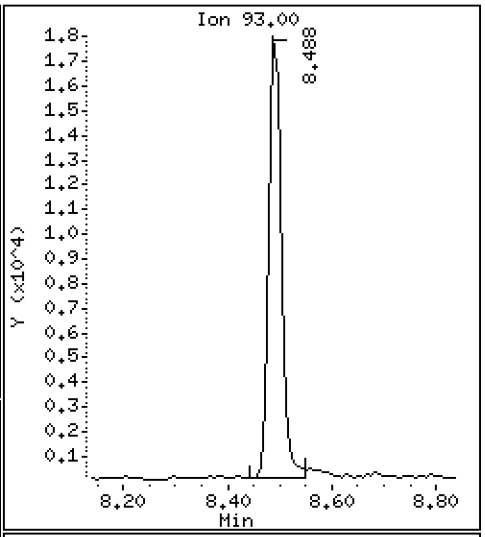
Column phase: ZB-5msi

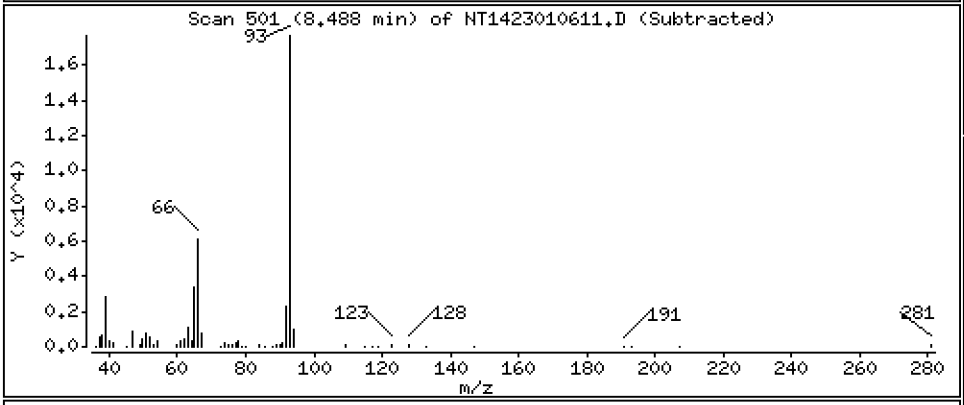
Column diameter: 0.25

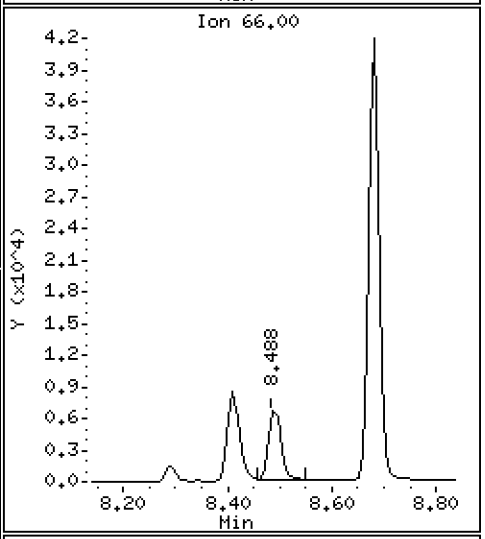
91 Aniline

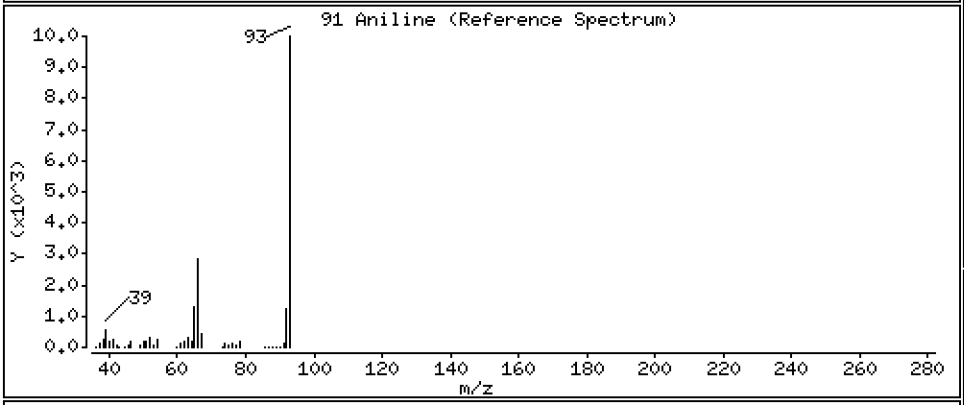
Concentration: 0.4830 ug/mL

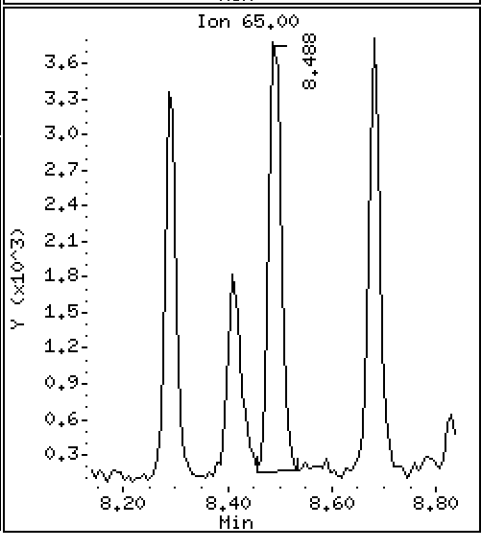


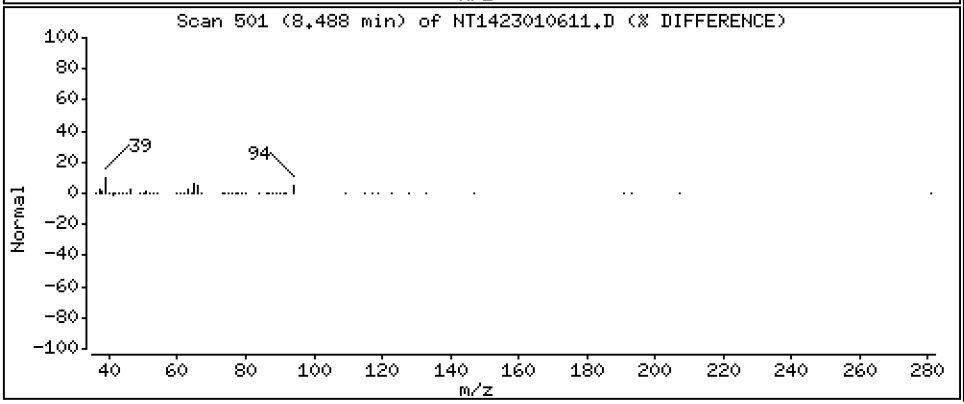












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Date : 06-JAN-2023 17:38

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK1

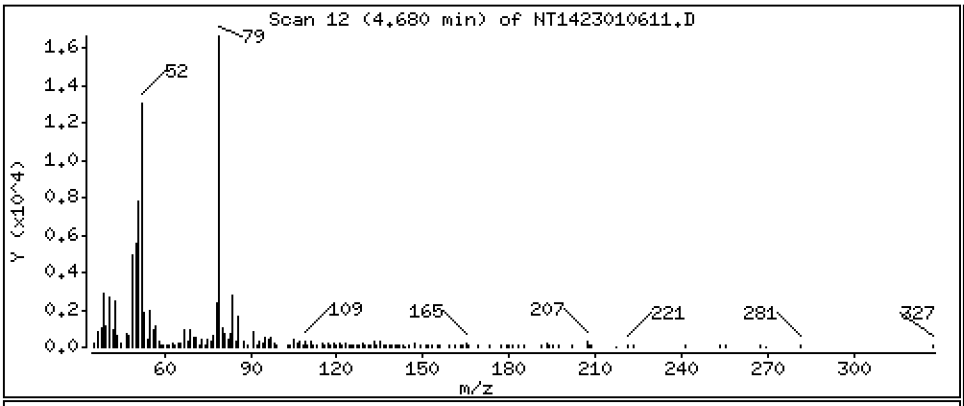
Operator: VTS

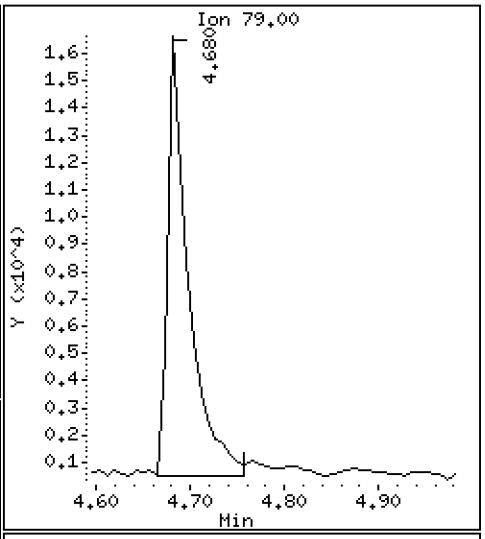
Column phase: ZB-5msi

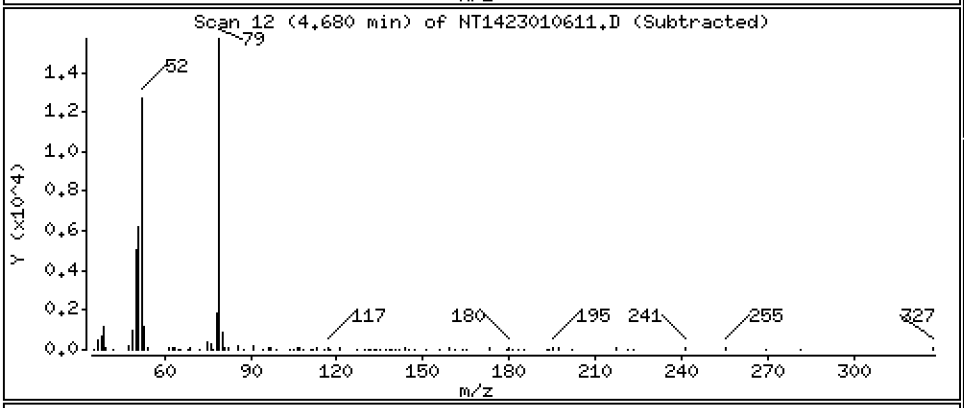
Column diameter: 0.25

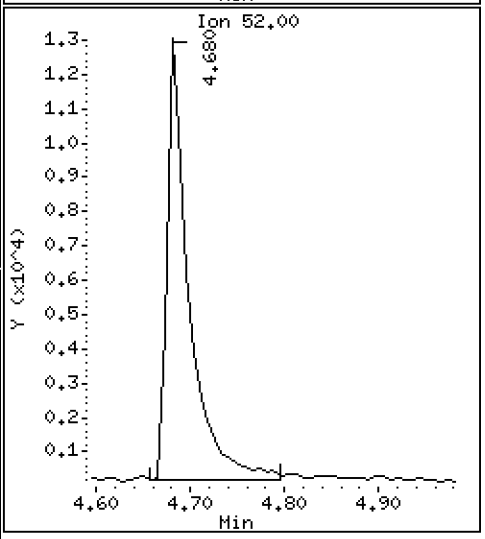
103 Pyridine

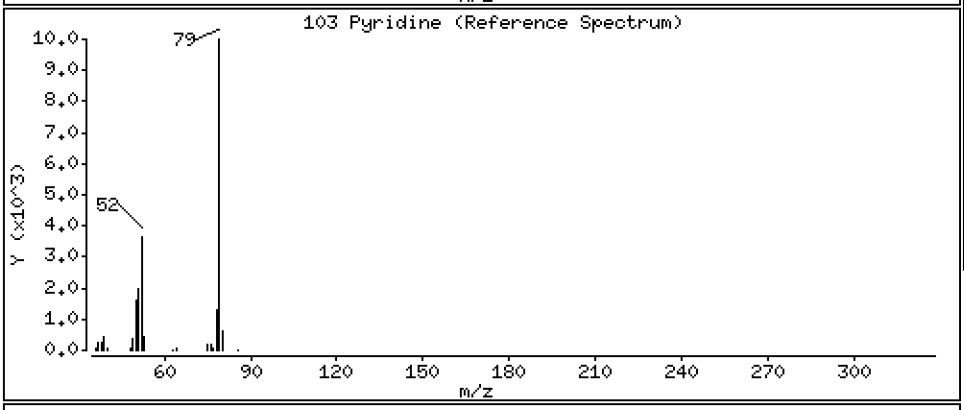
Concentration: 0.2714 ug/mL

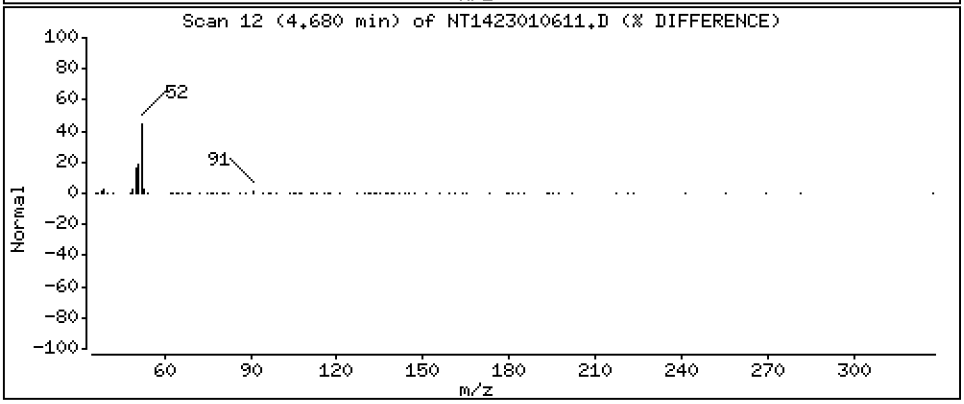












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010611.D
Lab Smp Id: BKL0585-BLK1
Inj Date : 06-JAN-2023 17:38 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-BLK1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.754)	206488	4.81344	4.813
$	2 Phenol-d5	99	8.411	8.403	(0.930)	248546	4.68828	4.688
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.960)	237666	5.33796	5.338
	4 Bis(2-Chloroethyl)ether	93	8.488	8.580	(0.938)	28329	0.68268	0.6827
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.045	9.037	(1.000)	133901	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.039)	107064	3.51826	3.518
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	10.139	9.867	(1.121)	22748	0.85310	0.8531
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.139	10.131	(0.878)	170869	4.18274	4.183
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	11.272	11.263	(0.977)	270	0.00756	0.007565
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	483764	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	3478	0.02921	0.02921
	29 4-Chloroaniline	127	11.712	11.704	(1.015)	14461	0.29454	0.2945
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	290628	3.68321	3.683
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	234685	4.00000	
	43	3-Nitroaniline	138	15.094	15.093	(0.995)	16057	0.88449	0.8845
	44	Acenaphthene	153	15.233	15.232	(1.004)	885	0.01394	0.01394
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	16.130	16.137	(1.063)	5877	0.06533	0.06533
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	16.824	16.816	(1.109)	54548	4.83820	4.838
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.223	18.215	(1.000)	422383	4.00000	
	60	Phenanthrene	178	18.269	18.261	(1.003)	3657	0.03321	0.03321
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	21.085	21.077	(0.906)	3574	0.03208	0.03208
$	66	Terphenyl-d14	244	21.372	21.364	(0.918)	390651	4.94539	4.945
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.276	23.268	(1.000)	329074	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	81514	2.67115	2.671
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	6497	0.08828	0.08828
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	662645	4.00000	
	73	Di-n-octylphthalate	149	Compound Not Detected.					
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	25.909	25.901	(1.000)	355478	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.488	8.487	(0.938)	28329	0.48298	0.4830
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.680	4.633	(0.517)	25476	0.27137	0.2714
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010611.D
Lab Smp Id: BKL0585-BLK1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	133901	-0.16
27 Naphthalene-d8	499117	249559	998234	483764	-3.08
42 Acenaphthene-d10	260320	130160	520640	234685	-9.85
59 Phenanthrene-d10	432406	216203	864812	422383	-2.32
69 Chrysene-d12	317887	158944	635774	329074	3.52
134 Di-n-octylphthala	664061	332031	1328122	662645	-0.21
77 Perylene-d12	313716	156858	627432	355478	13.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.05	0.09
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.91	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010611.D

Lab ID: BKL0585-BLK1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 17:38

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.938	0.949	-0.0111	Bis(2-Chloroethyl)ether
1.121	1.092	0.0291	N-Nitroso-di-n-propylamine

RRT check based on Ccal File: NT1423010602.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Form I

METHOD BLANK DATA SHEET

EPA 8270E

Blank

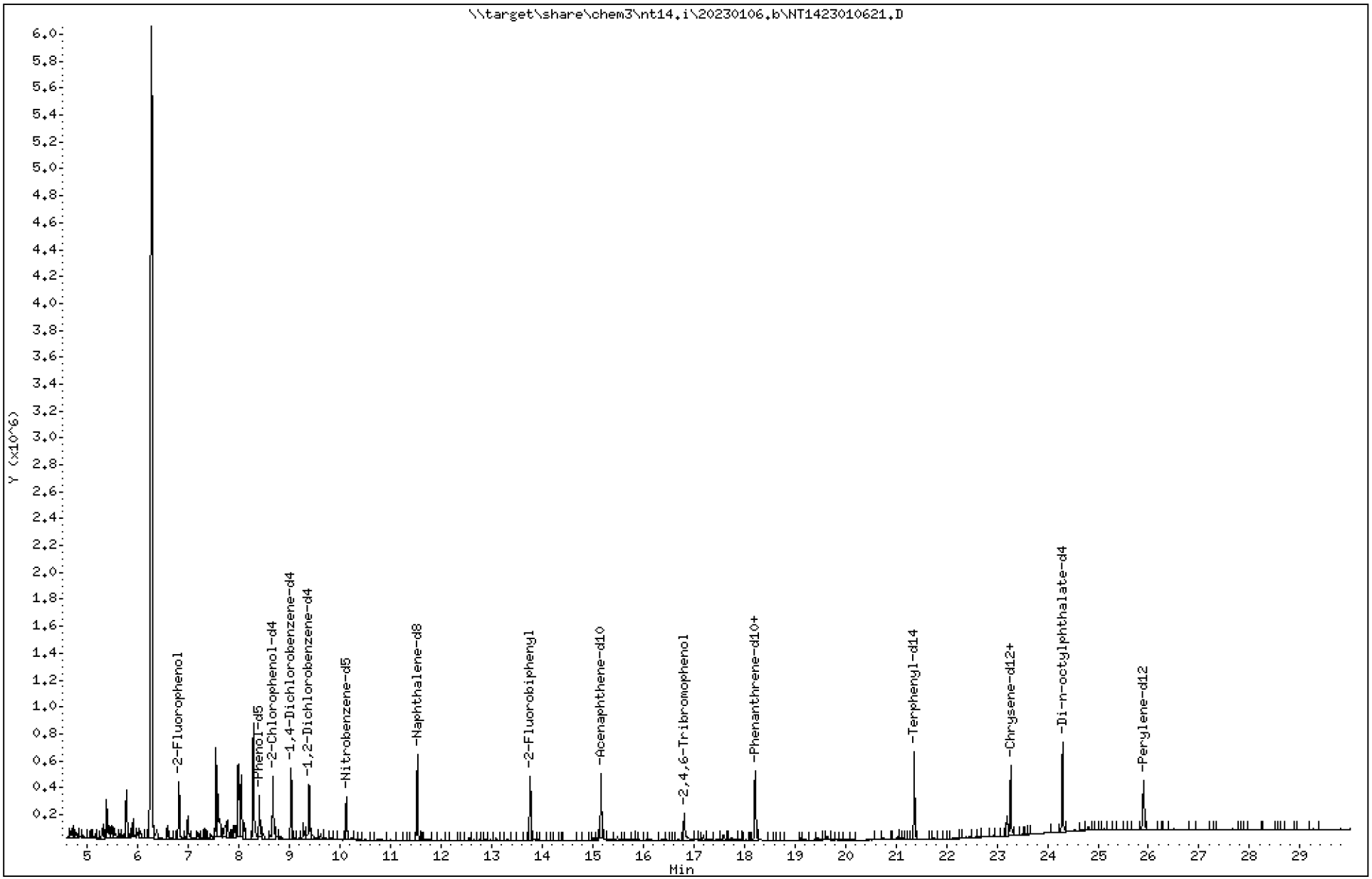
Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0585-BLK2	File ID:	NT1423010621.D
Sampled:	N/A	Prepared:	12/27/22 11:08	Analyzed:	01/06/23 23:39
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	10 g / 1 mL
Batch:	BKL0585	Sequence:	SLA0068	Calibration:	FL00066
Instrument:	NT14	Column:	ZB-5MS		

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
85-68-7	Butylbenzylphthalate	1	20.0	U	9.4	20.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
p-Terphenyl-d14	500.00	499	99.8	37 - 120	

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D
Date : 06-JAN-2023 23:39
Client ID:
Sample Info: BKL0585-BLK2

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

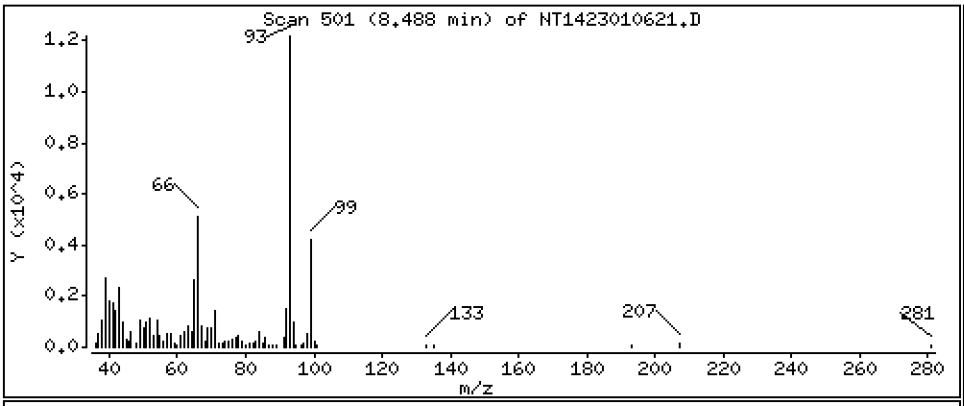
Operator: VTS

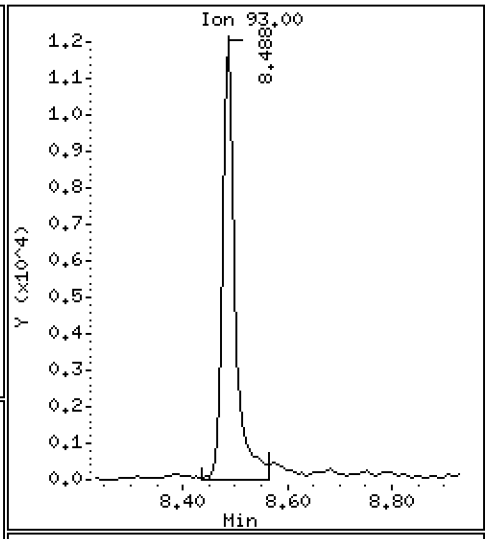
Column phase: ZB-5msi

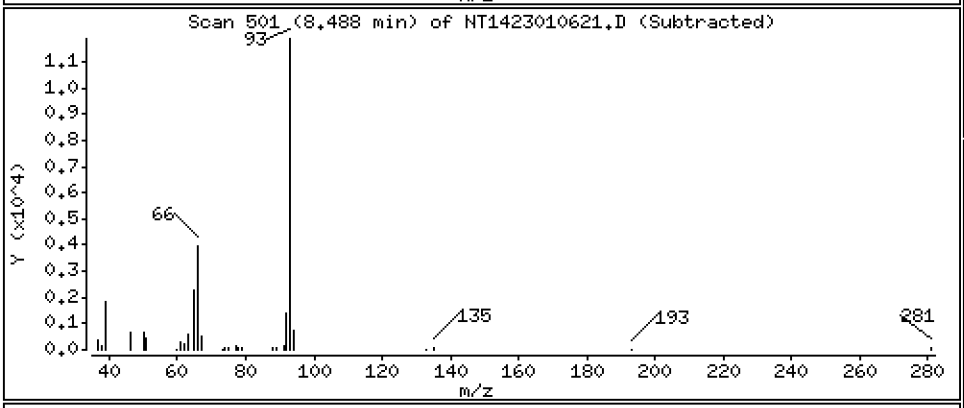
Column diameter: 0.25

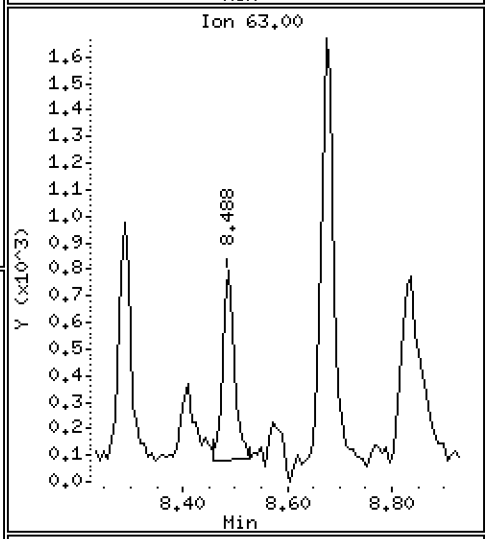
4 Bis(2-Chloroethyl)ether

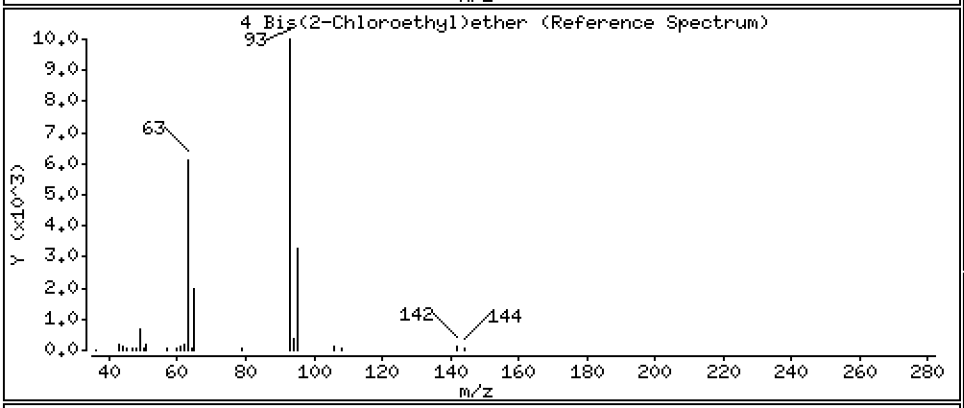
Concentration: 0.5694 ug/mL

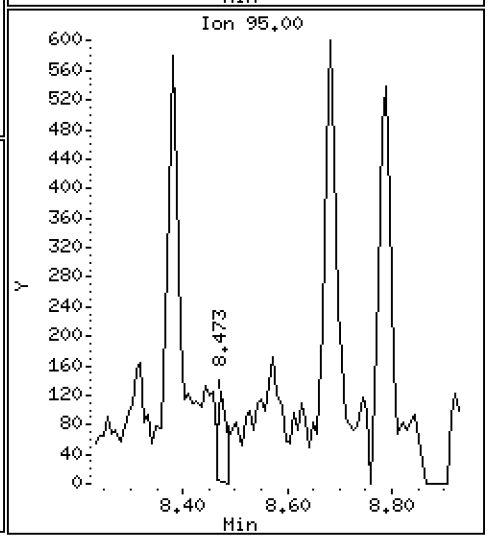


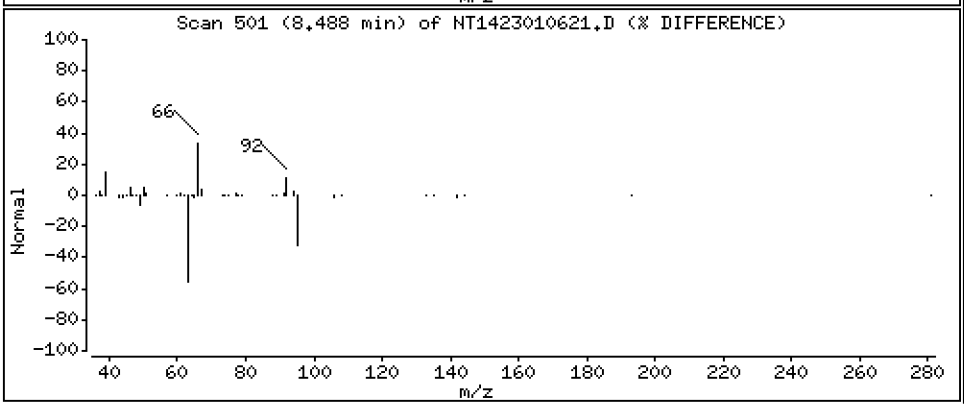












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D

Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

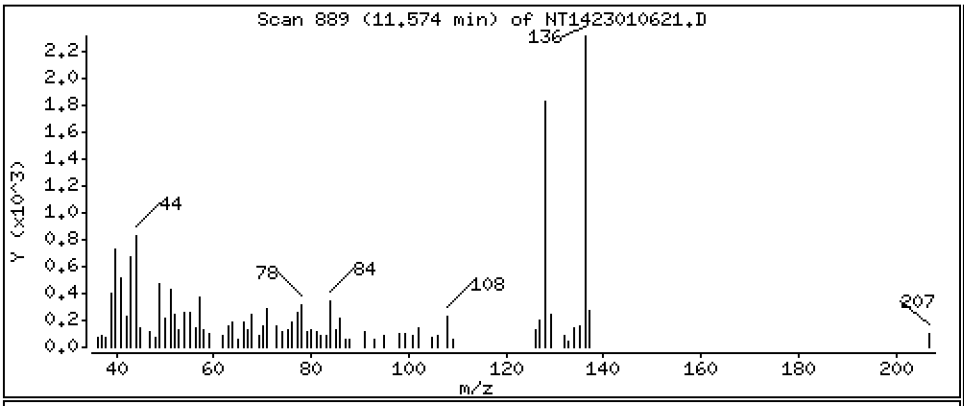
Operator: VTS

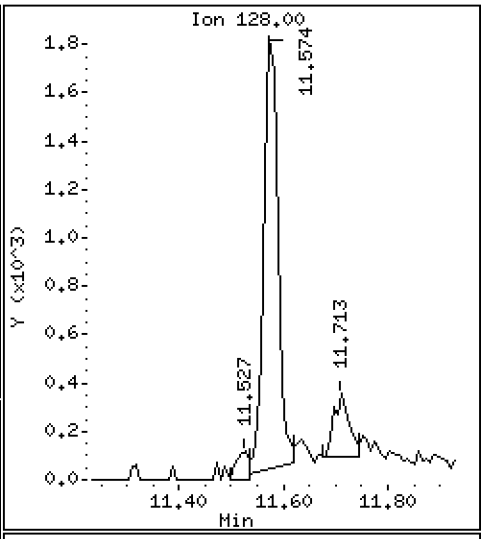
Column phase: ZB-5msi

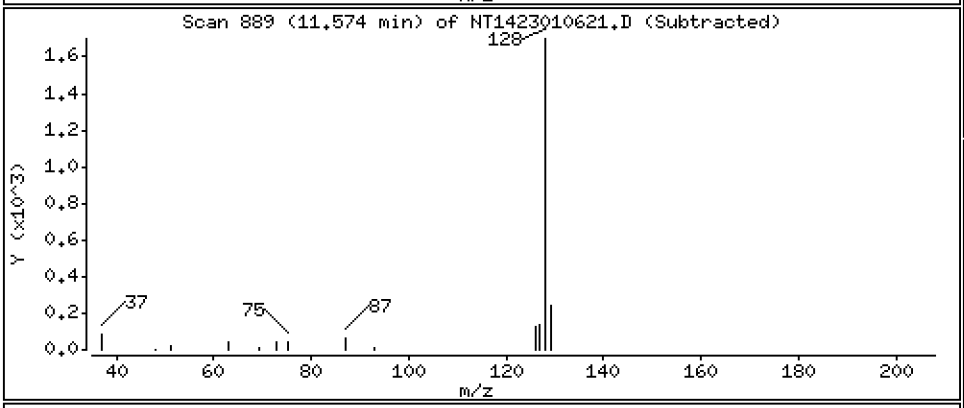
Column diameter: 0.25

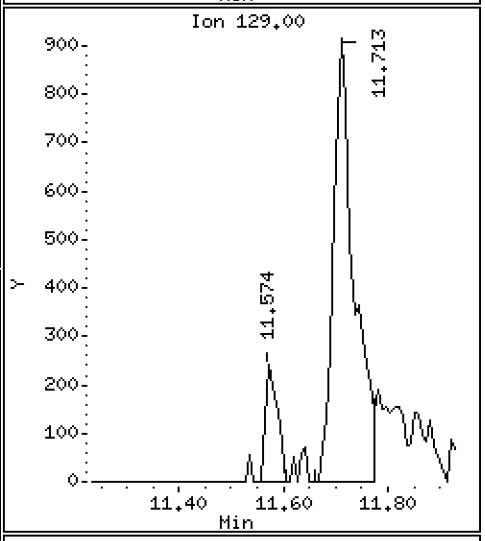
28 Naphthalene

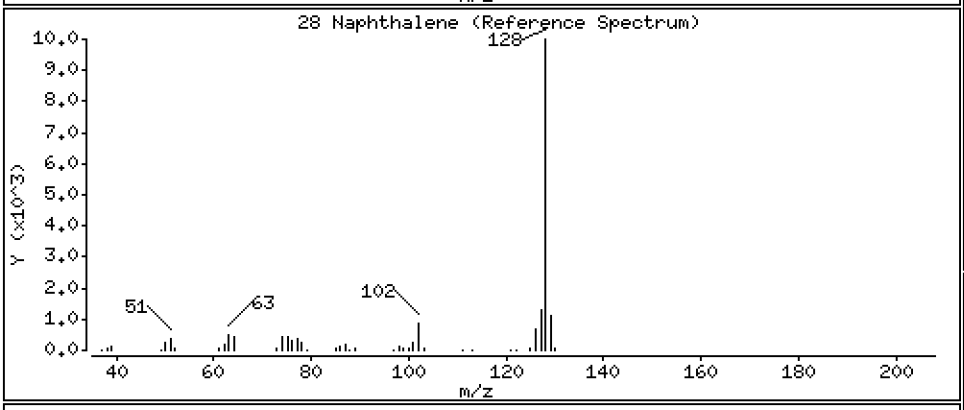
Concentration: 0.02966 ug/mL

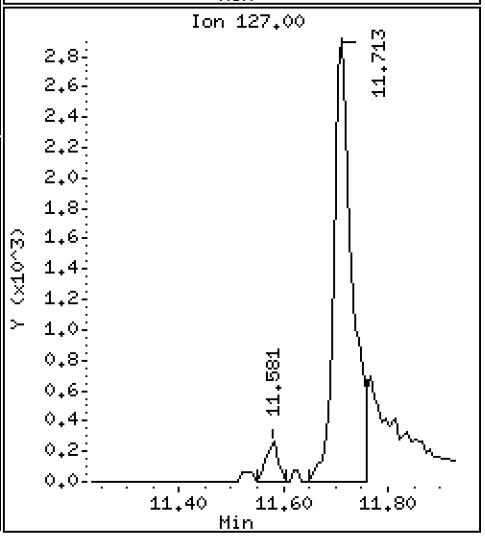


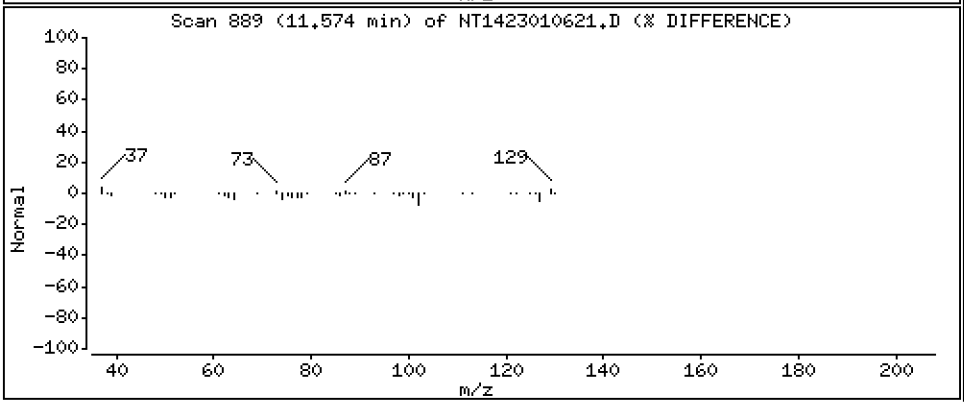












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D

Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

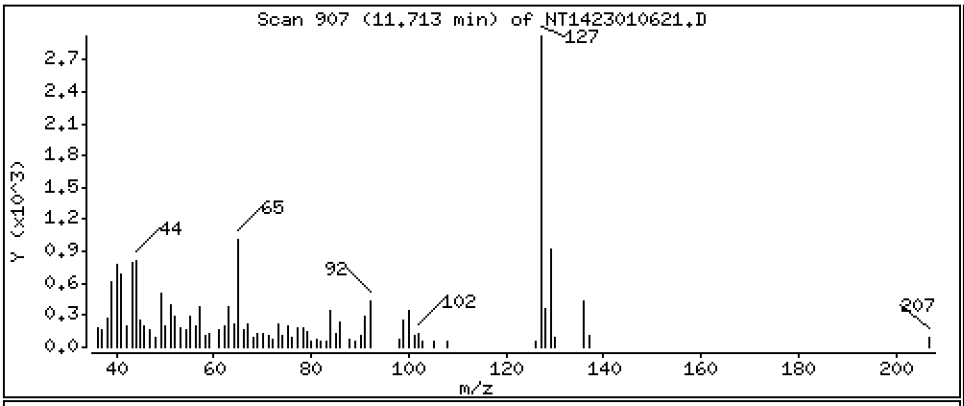
Operator: VTS

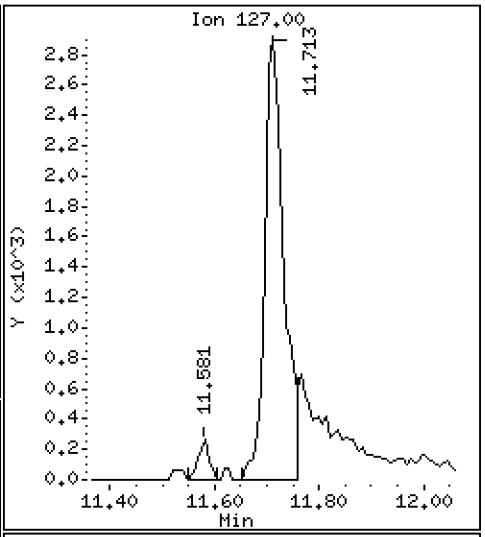
Column phase: ZB-5msi

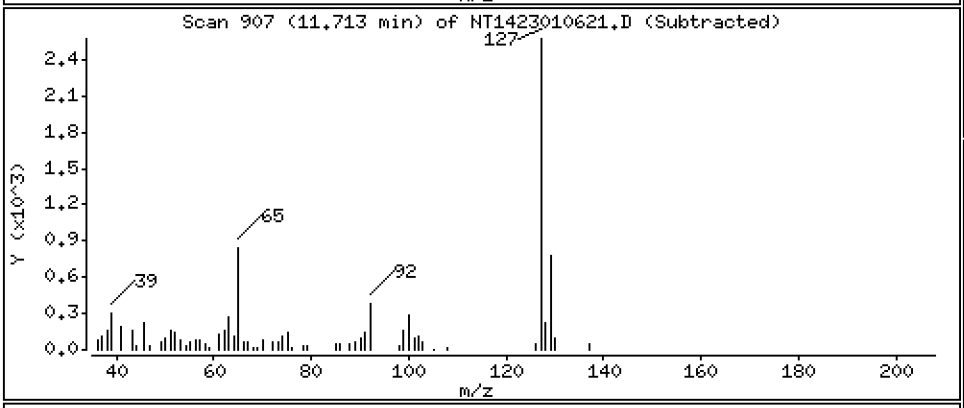
Column diameter: 0.25

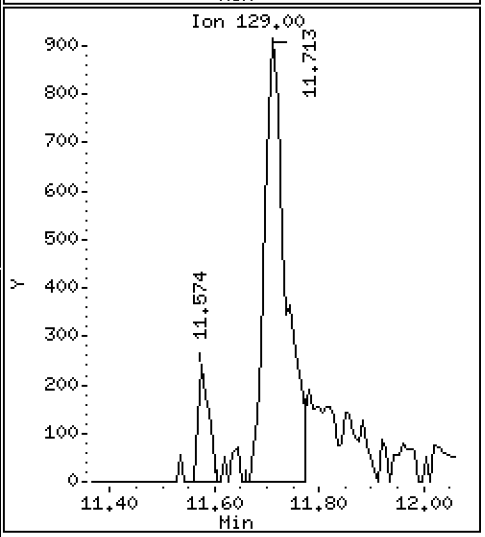
29 4-Chloroaniline

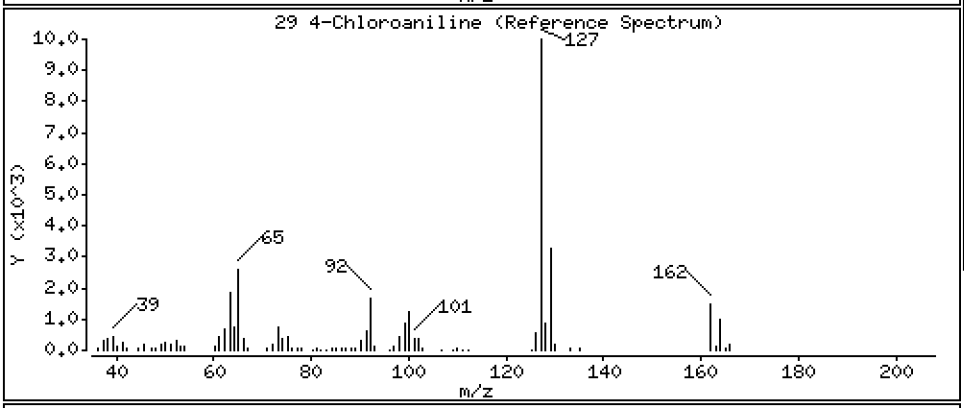
Concentration: 0.1597 ug/mL

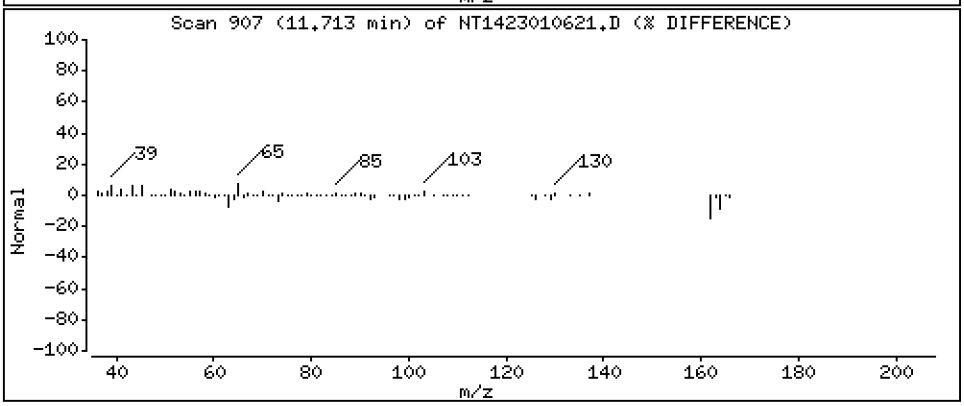












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

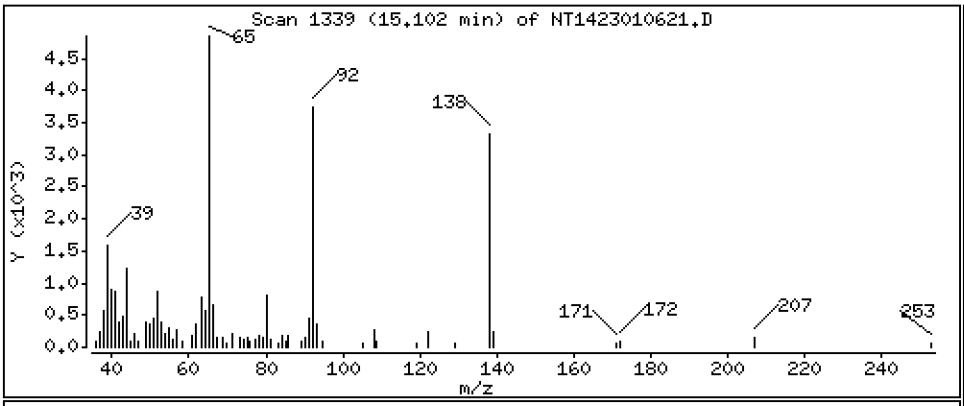
Operator: VTS

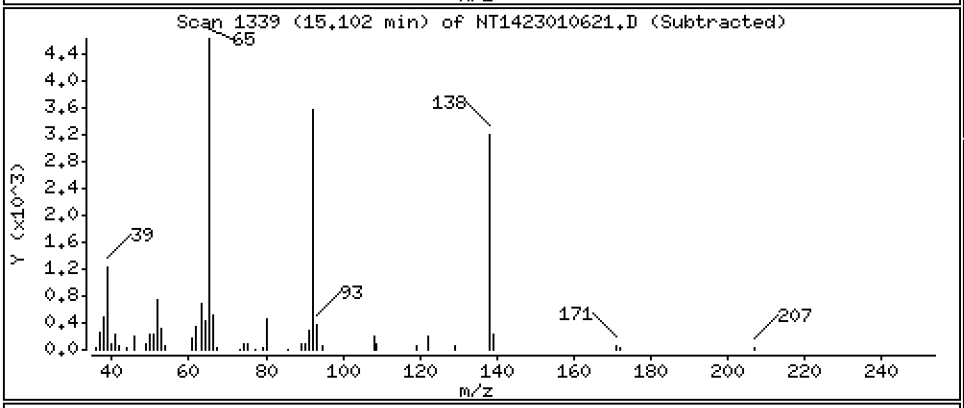
Column phase: ZB-5msi

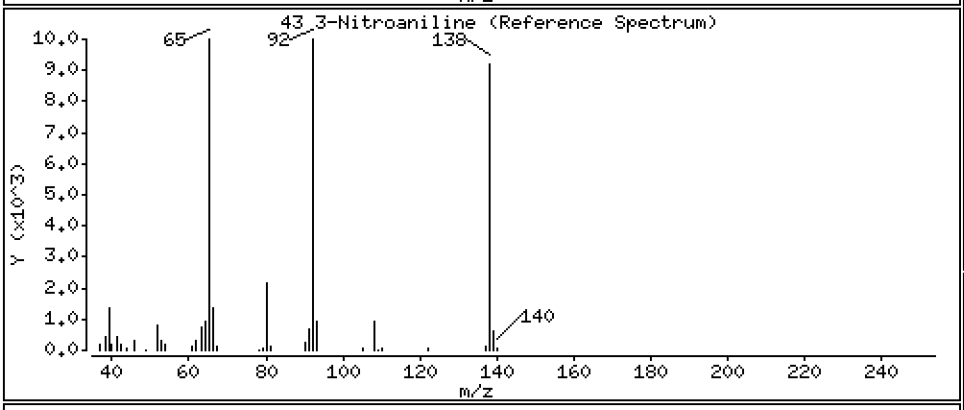
Column diameter: 0.25

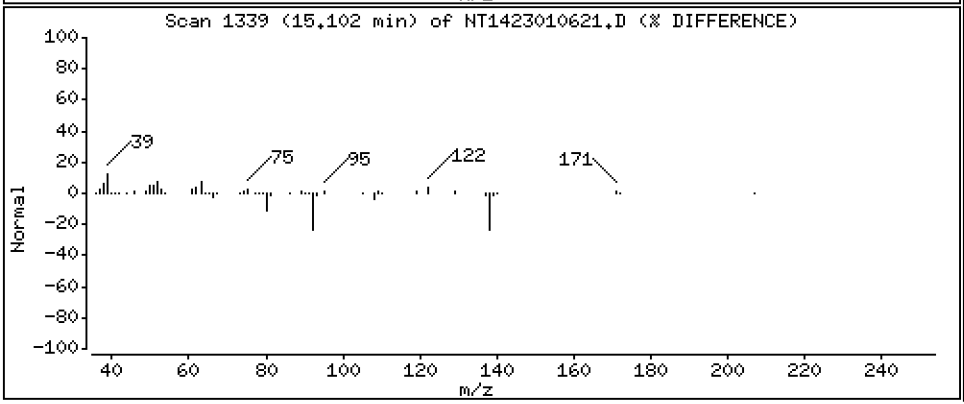
43 3-Nitroaniline

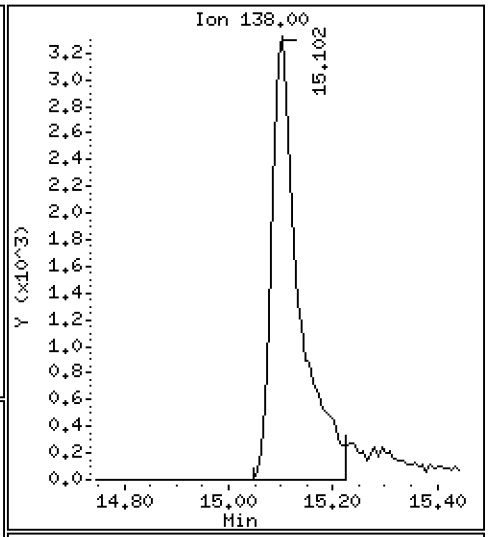
Concentration: 0.7847 ug/mL

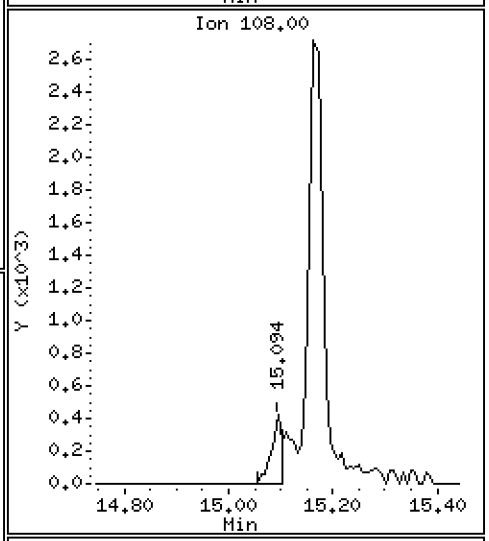


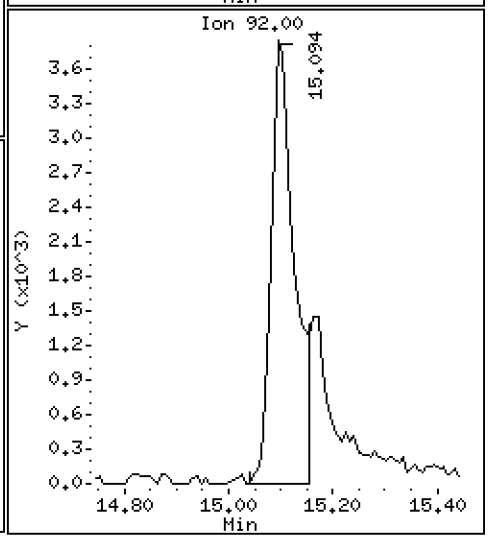












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D

Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

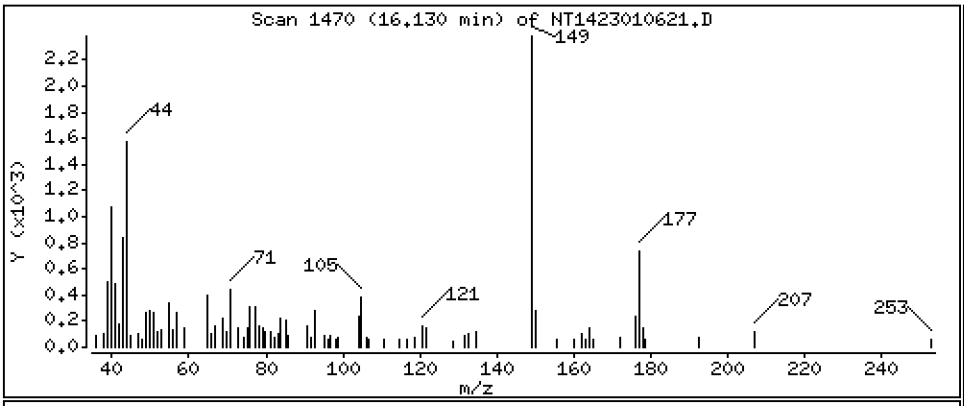
Operator: VTS

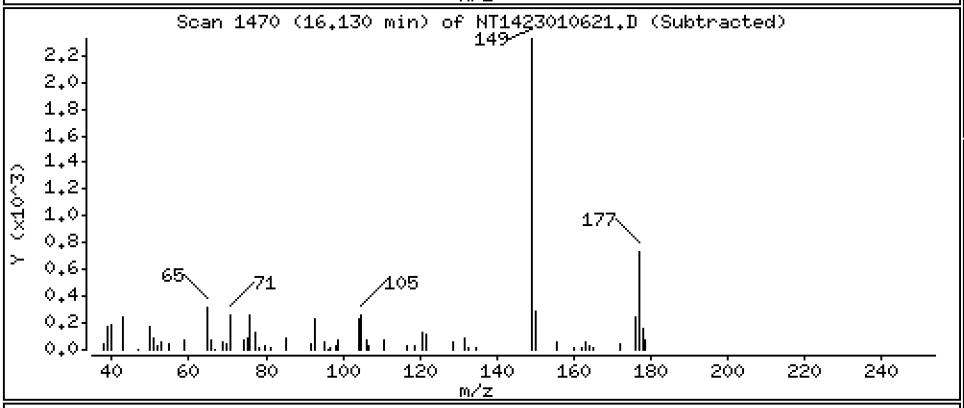
Column phase: ZB-5msi

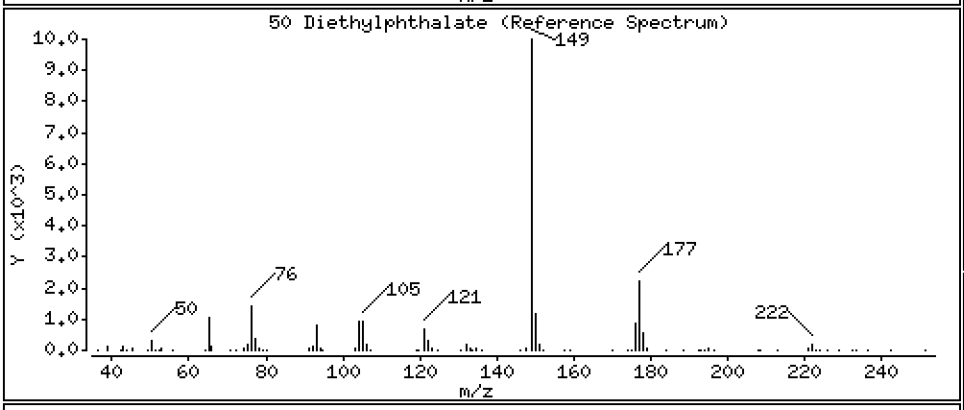
Column diameter: 0.25

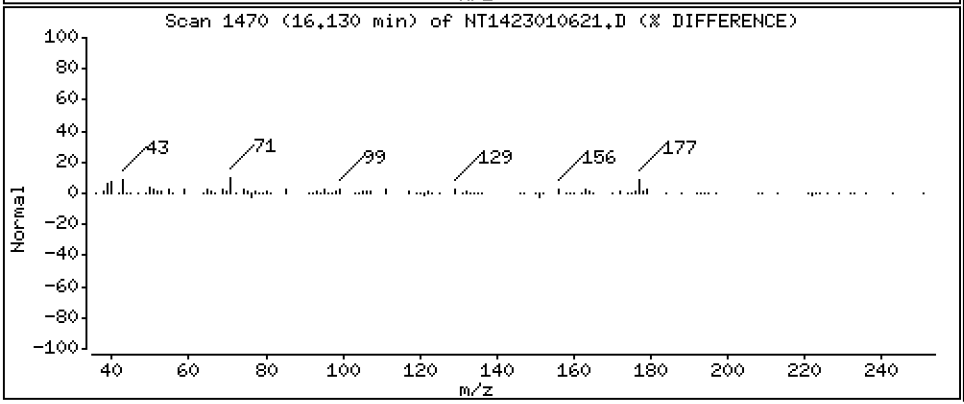
50 Diethylphthalate

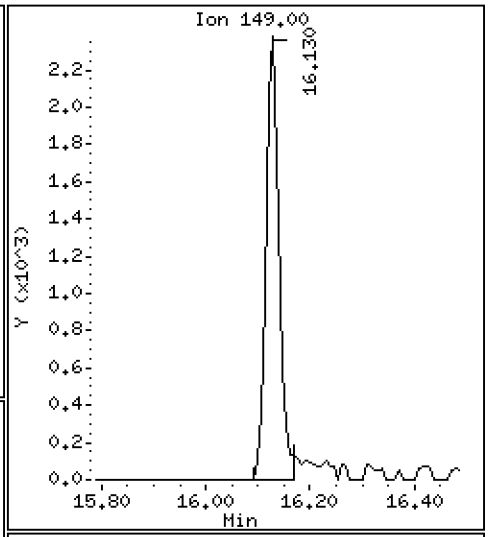
Concentration: 0.05117 ug/mL

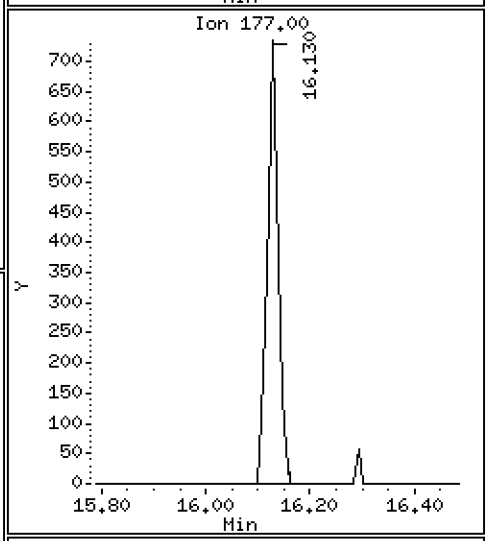


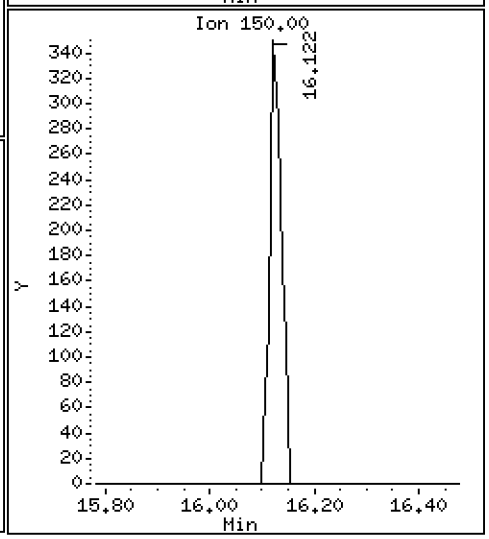












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D

Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

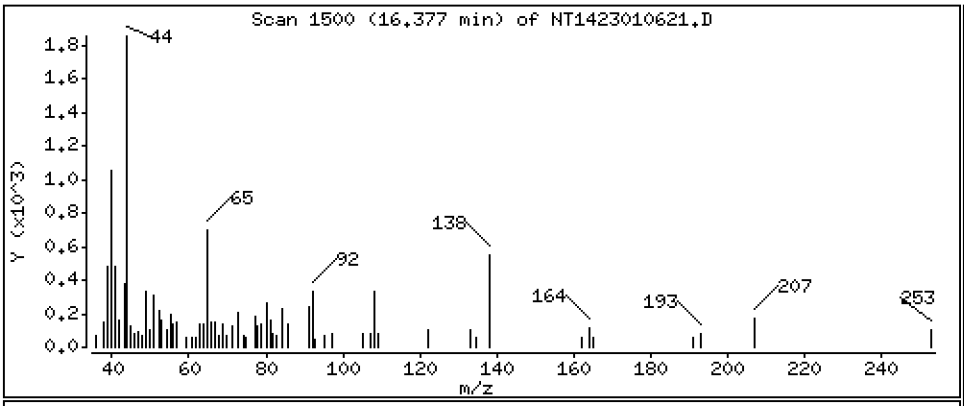
Operator: VTS

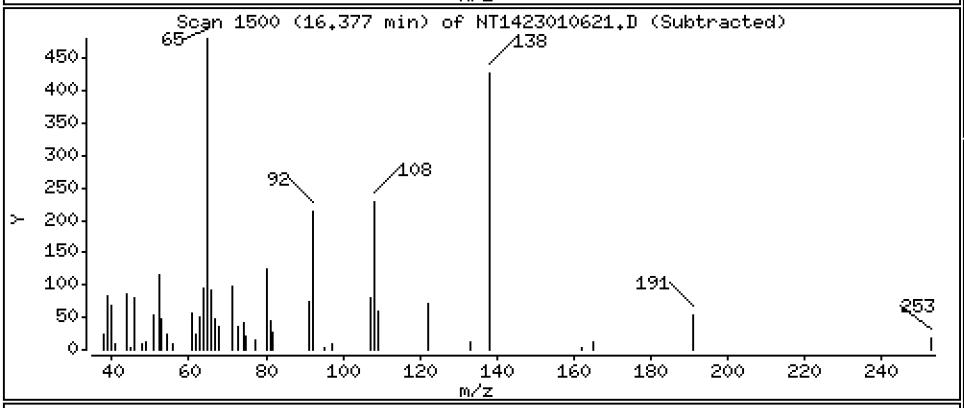
Column phase: ZB-5msi

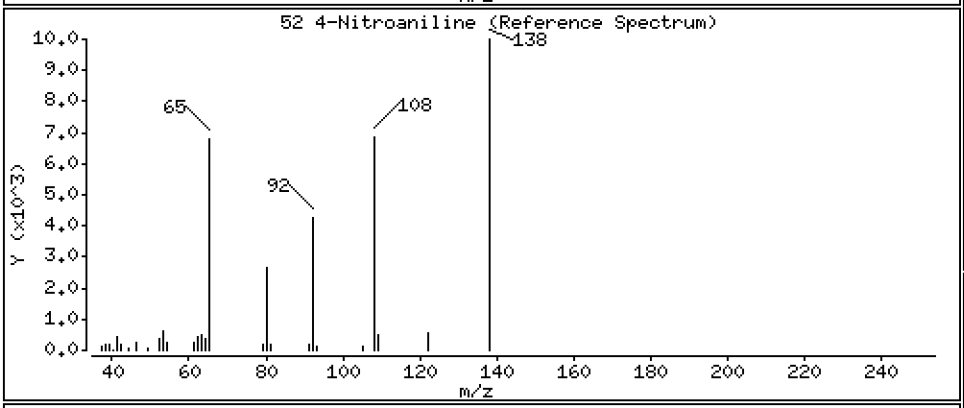
Column diameter: 0.25

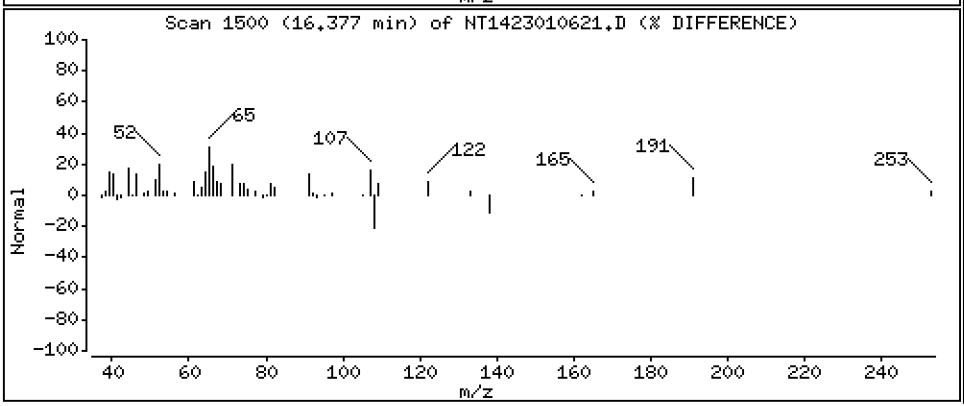
52 4-Nitroaniline

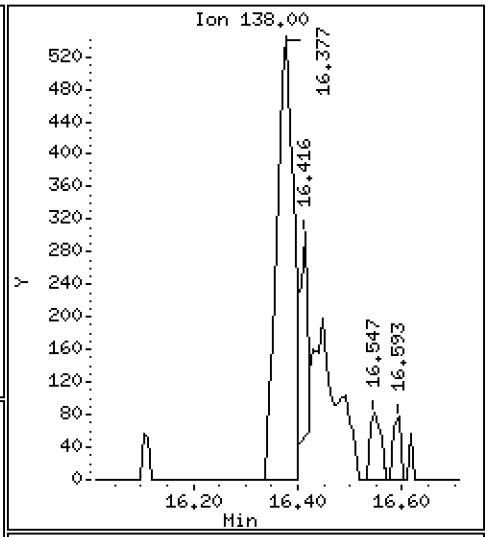
Concentration: 0.06685 ug/mL

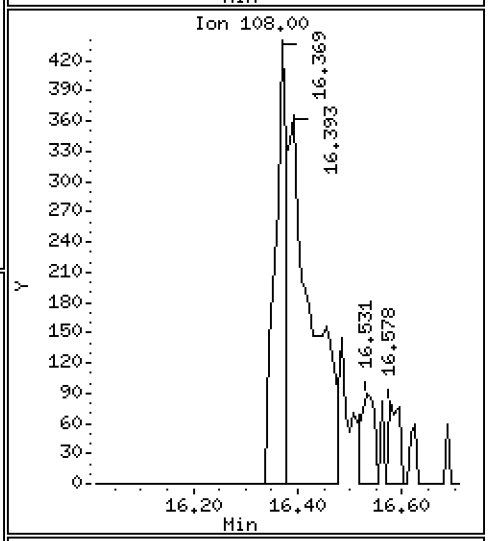


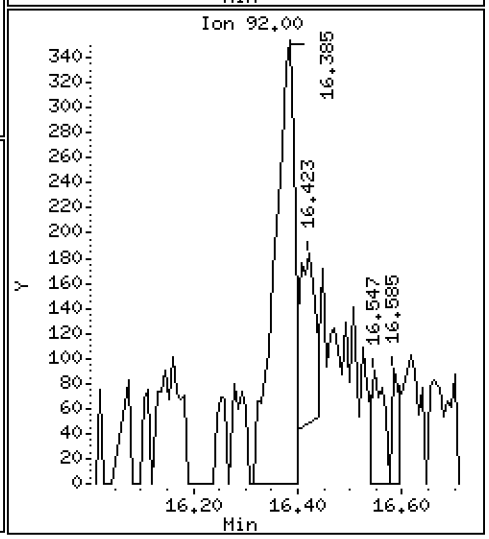












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D

Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

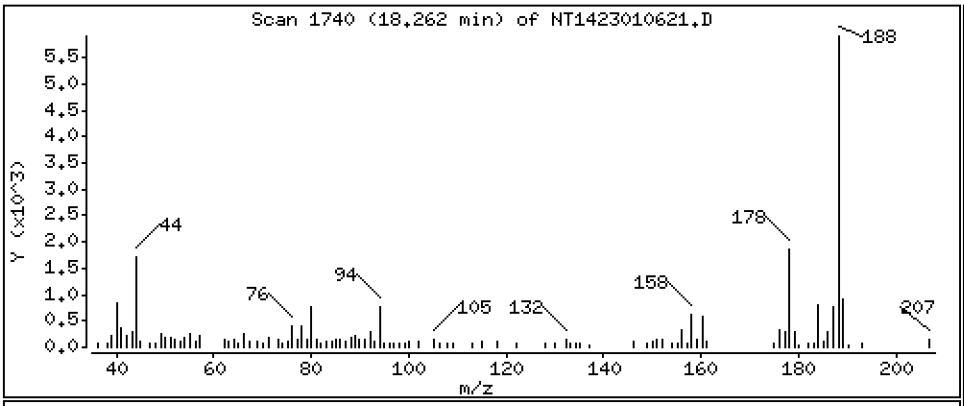
Operator: VTS

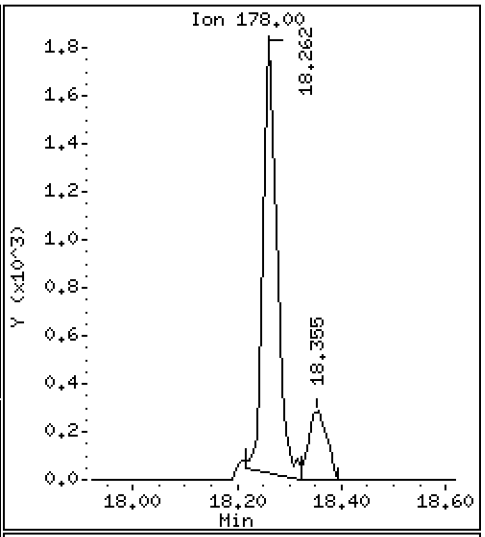
Column phase: ZB-5msi

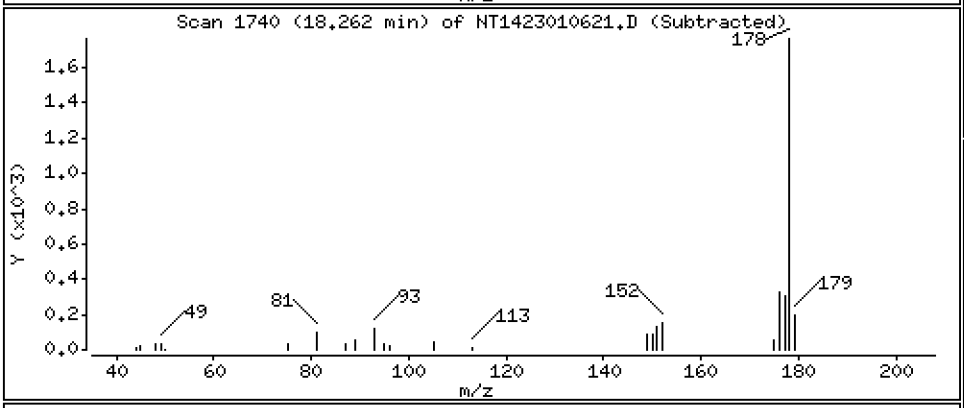
Column diameter: 0.25

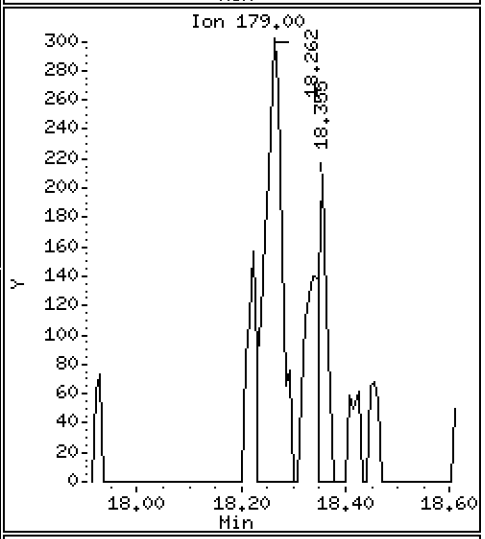
60 Phenanthrene

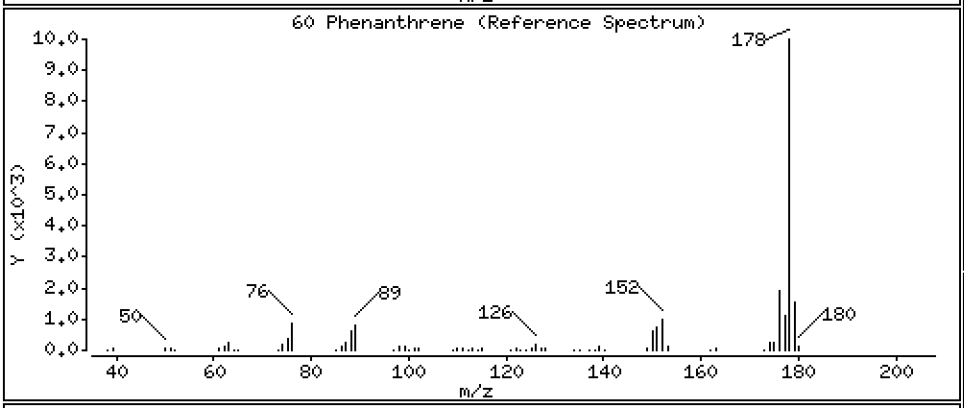
Concentration: 0.03511 ug/mL

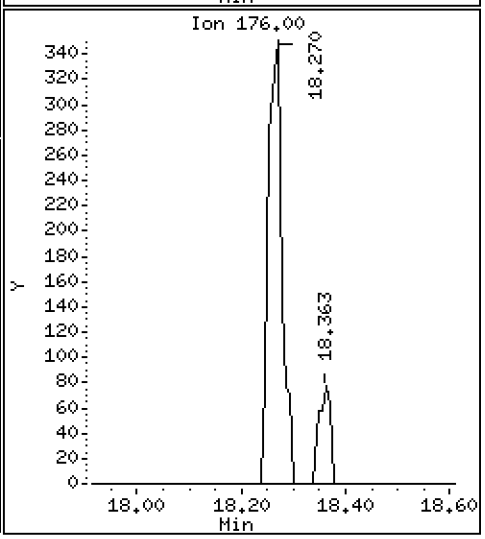


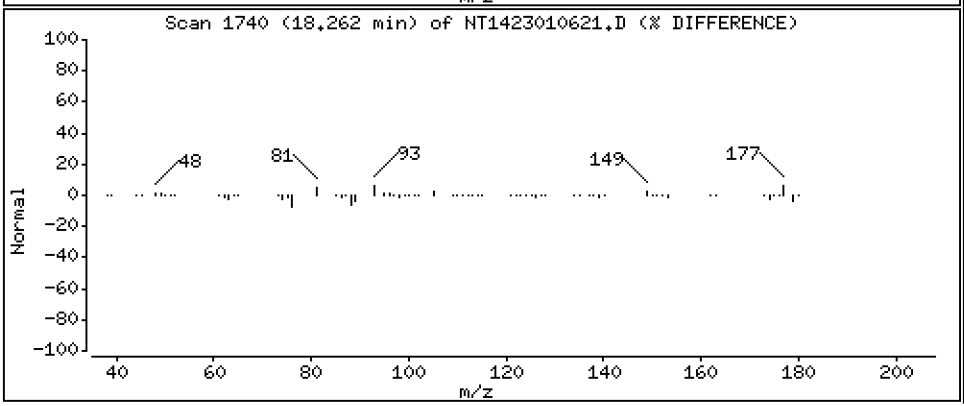












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

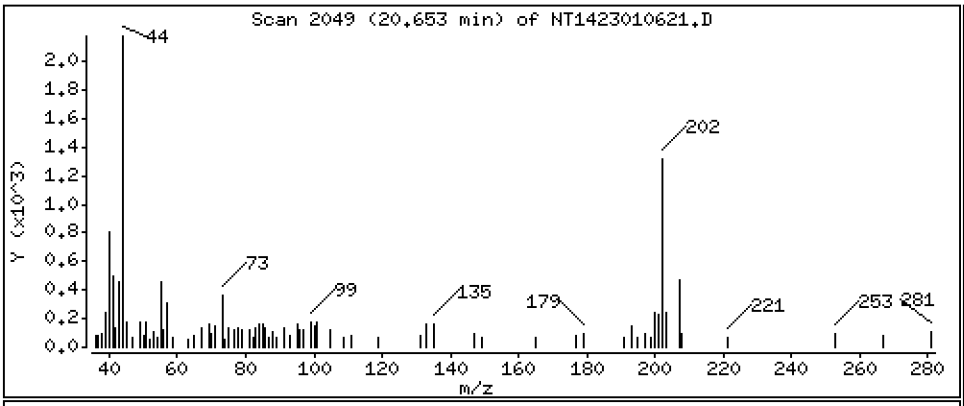
Operator: VTS

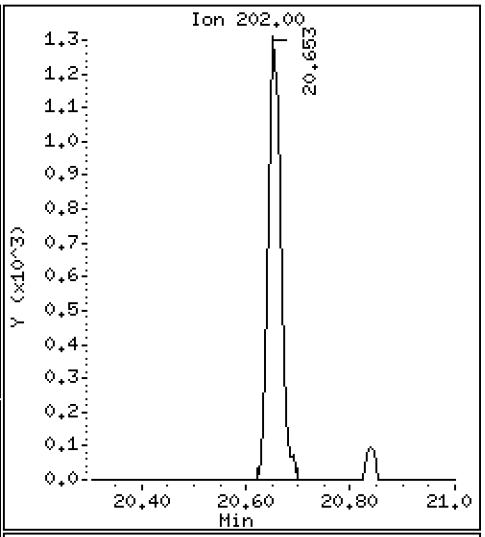
Column phase: ZB-5msi

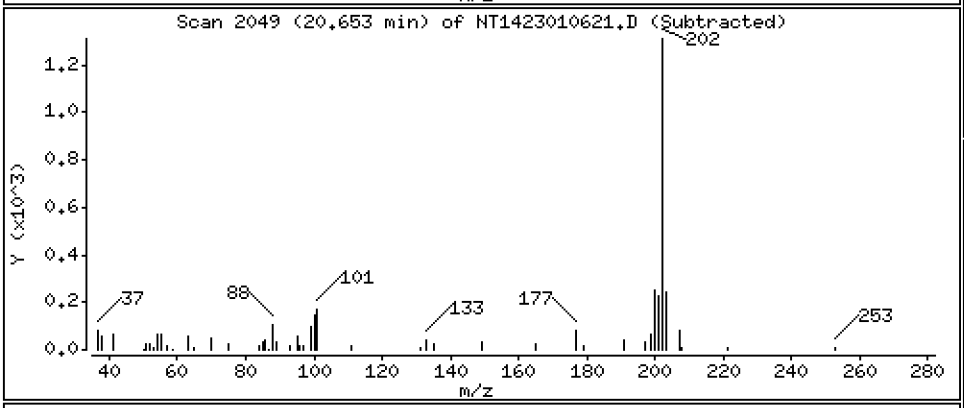
Column diameter: 0.25

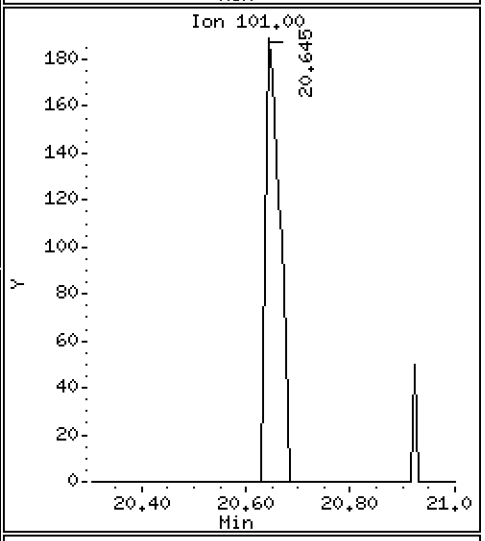
64 Fluoranthene

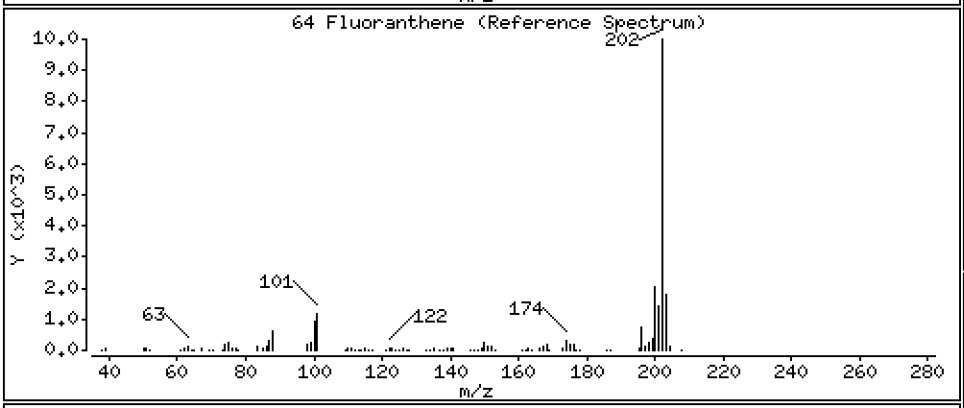
Concentration: 0.02482 ug/mL

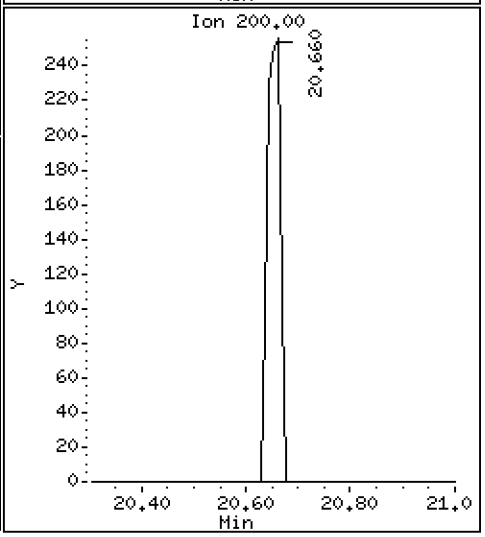


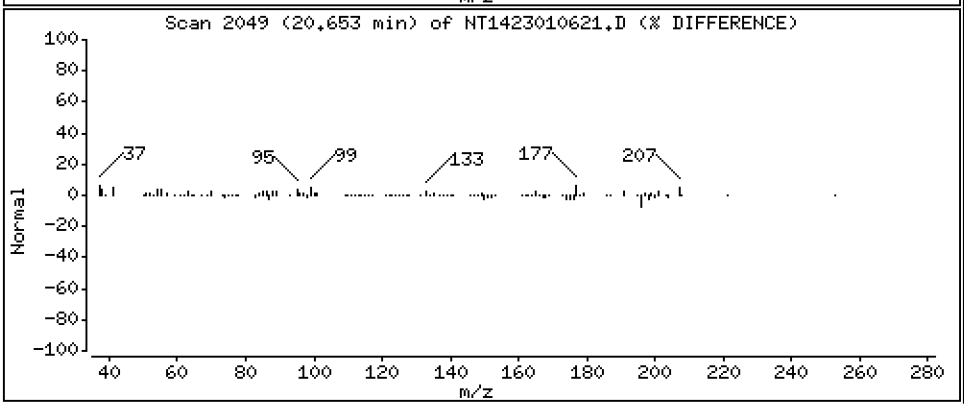












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

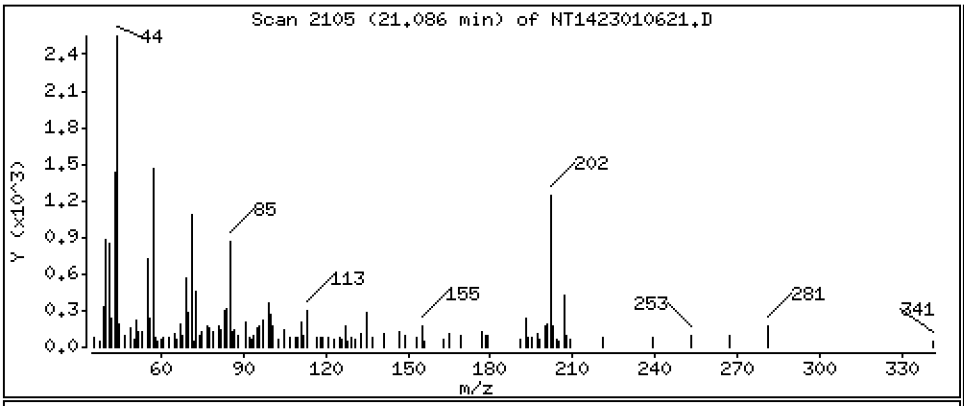
Operator: VTS

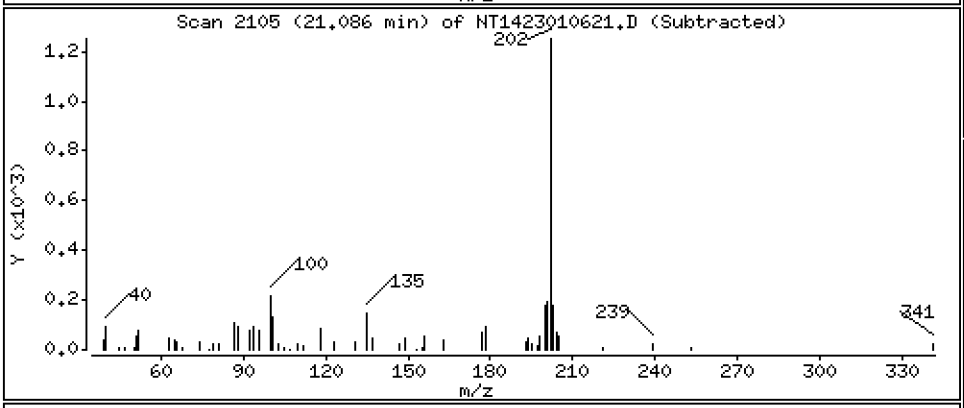
Column phase: ZB-5msi

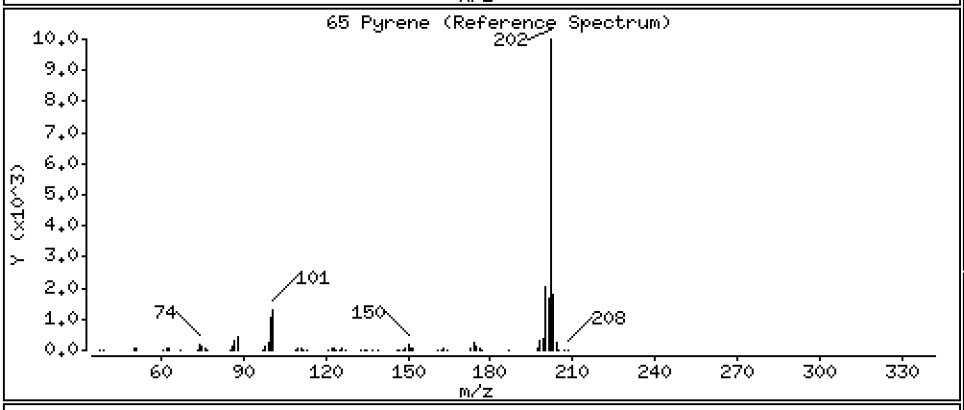
Column diameter: 0.25

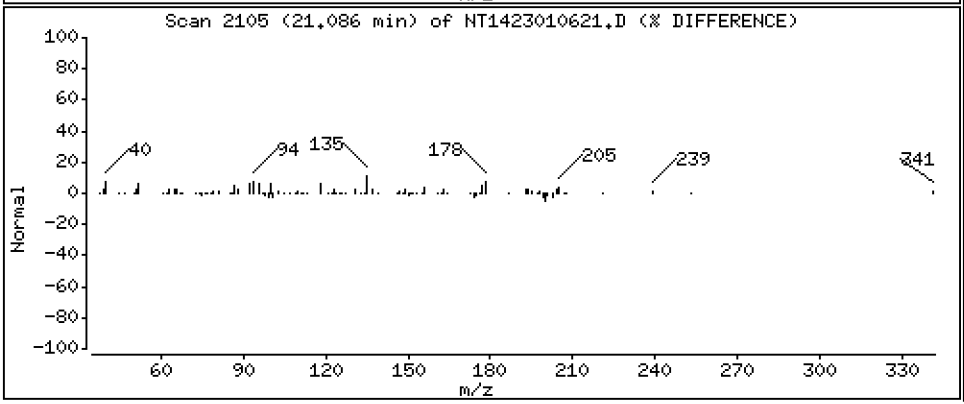
65 Pyrene

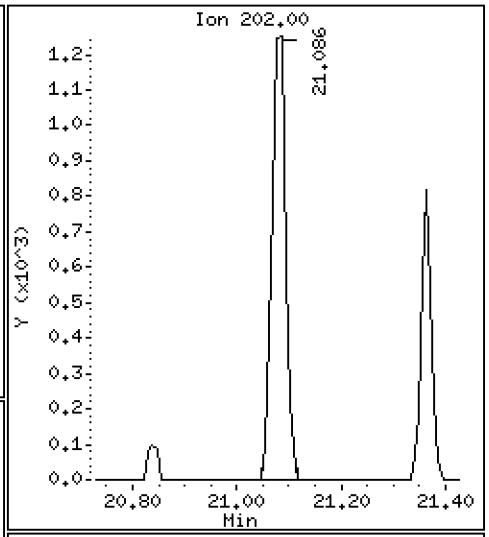
Concentration: 0.02481 ug/mL

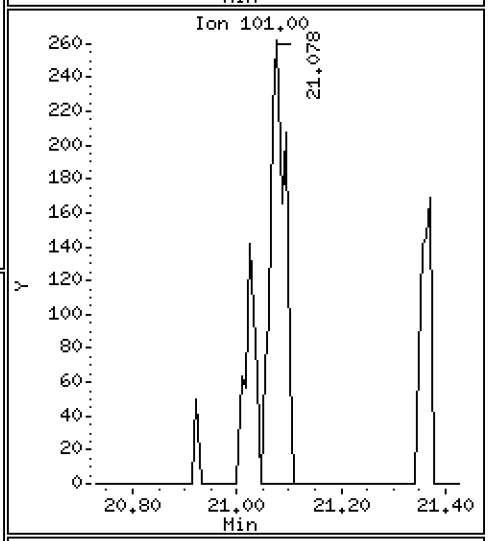


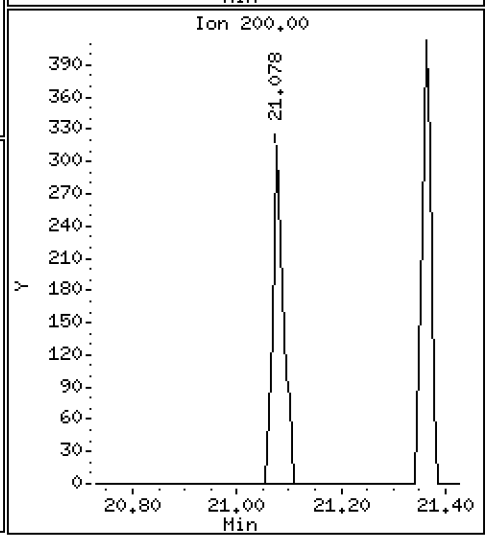












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

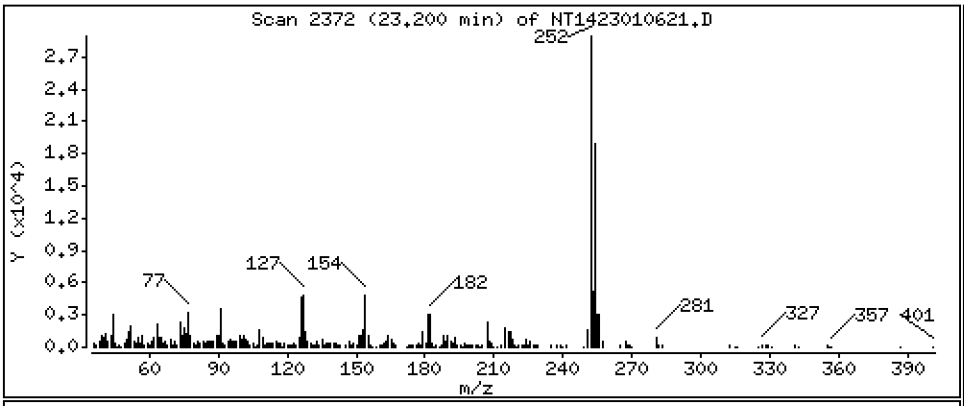
Operator: VTS

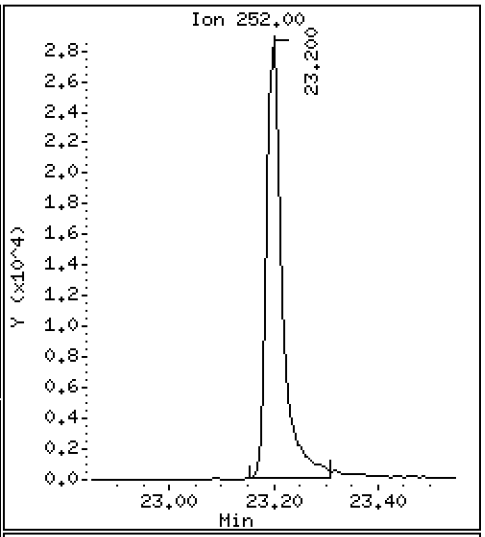
Column phase: ZB-5msi

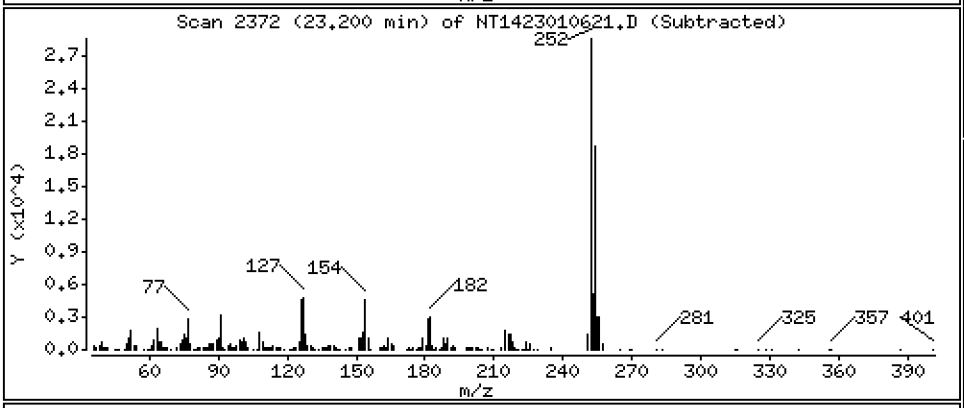
Column diameter: 0.25

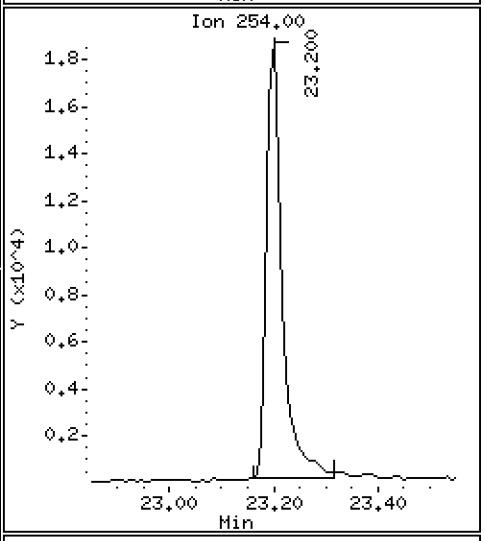
70 3,3'-Dichlorobenzidine

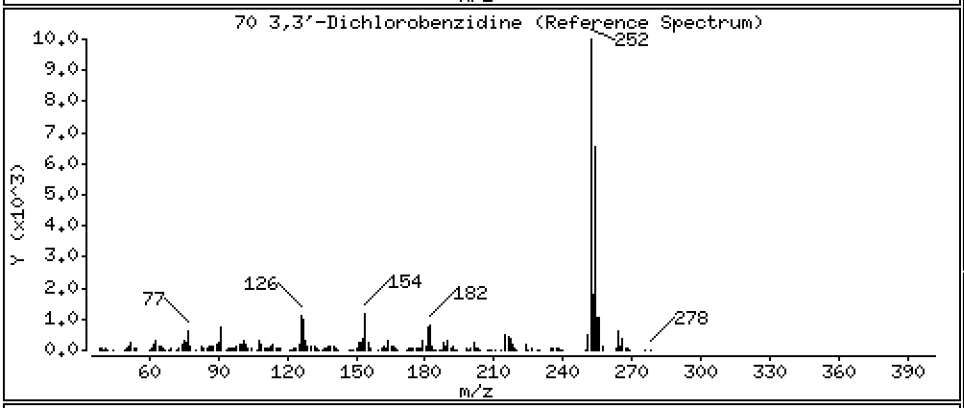
Concentration: 2.405 ug/mL

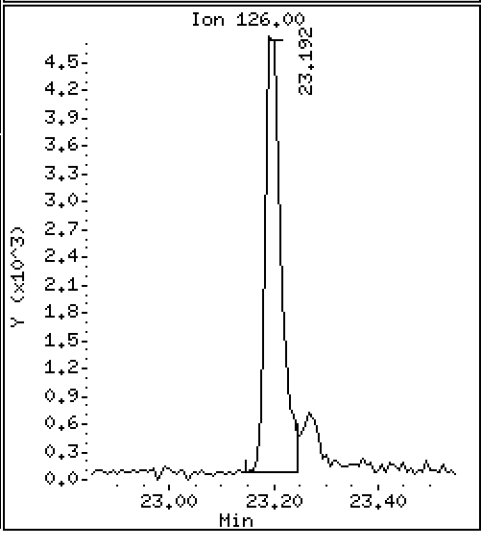


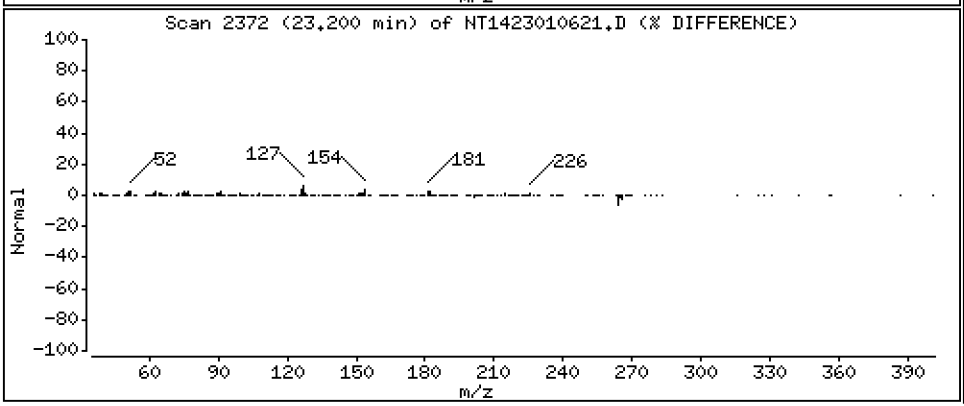












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

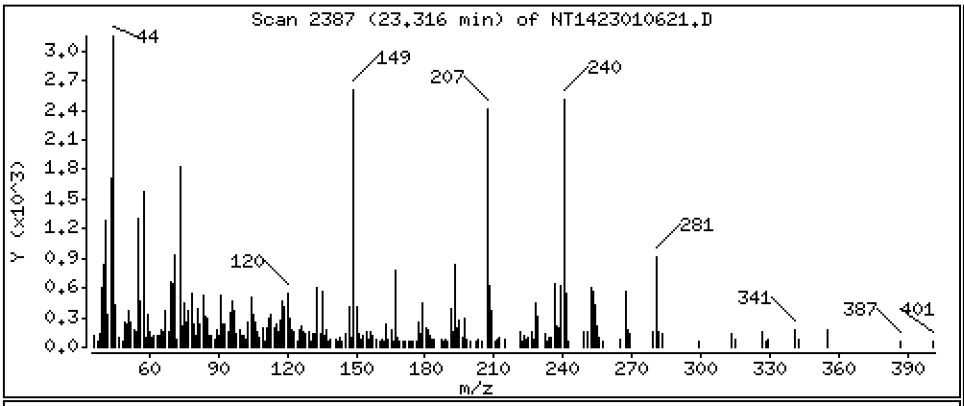
Operator: VTS

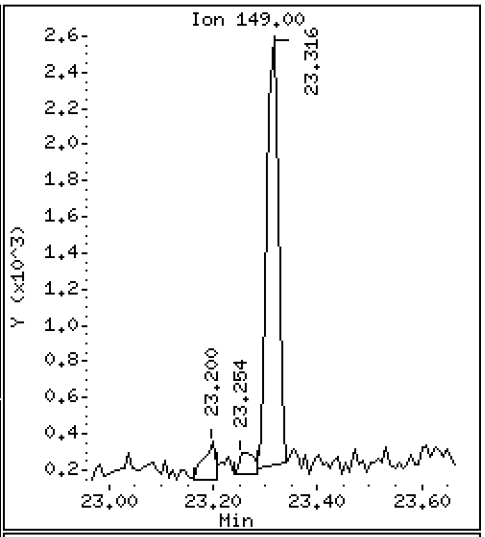
Column phase: ZB-5msi

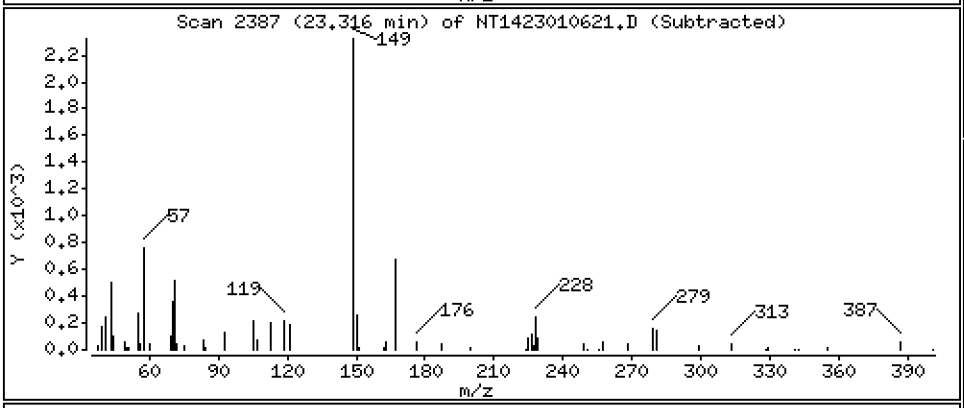
Column diameter: 0.25

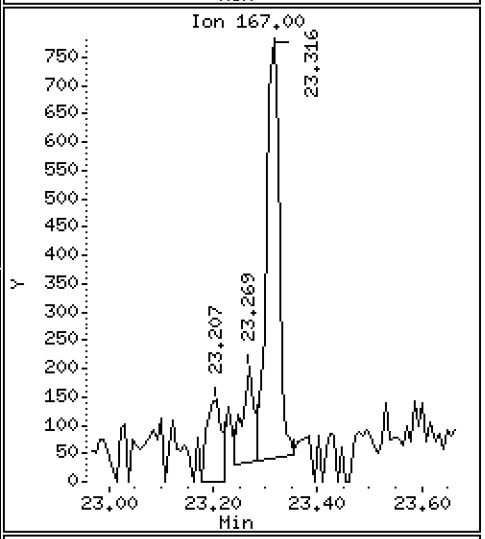
72 bis(2-Ethylhexyl)phthalate

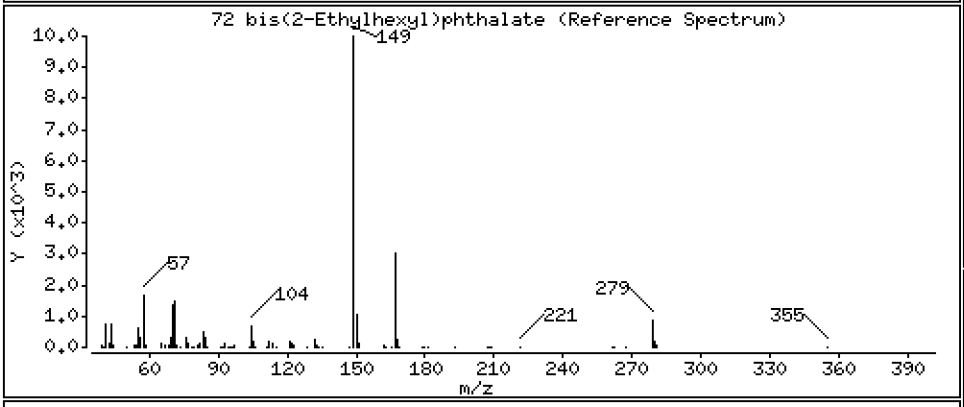
Concentration: 0.06518 ug/mL

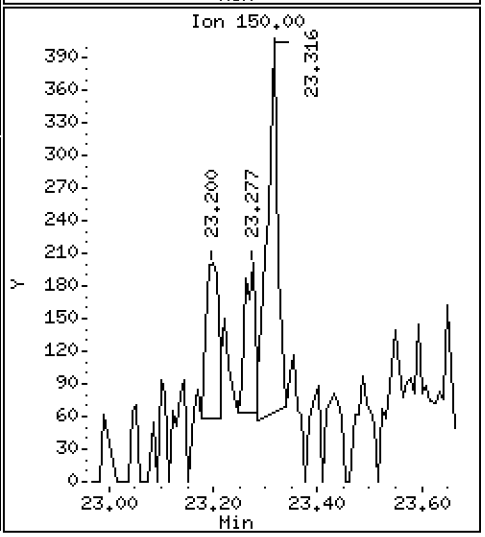


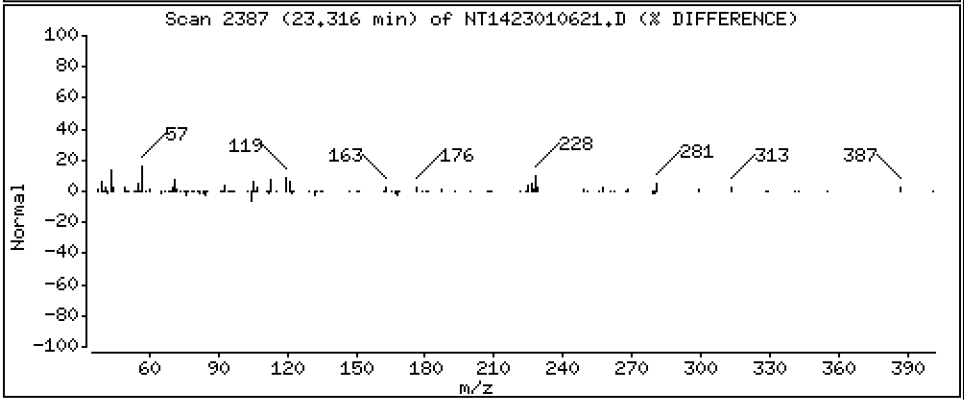












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

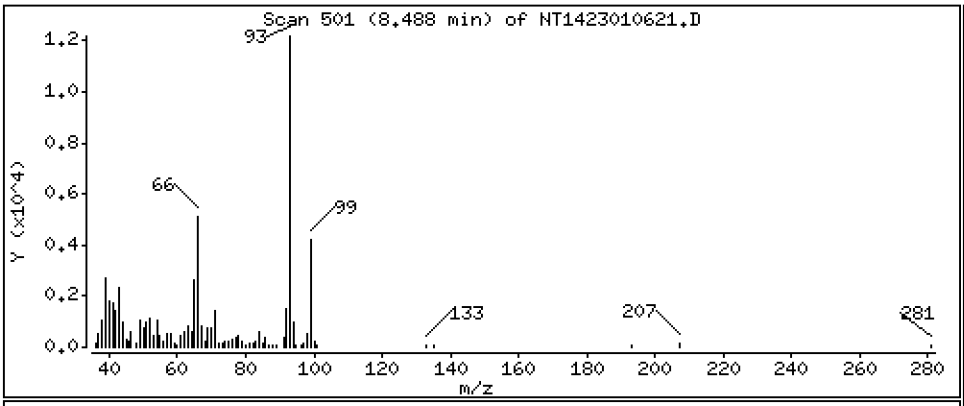
Operator: VTS

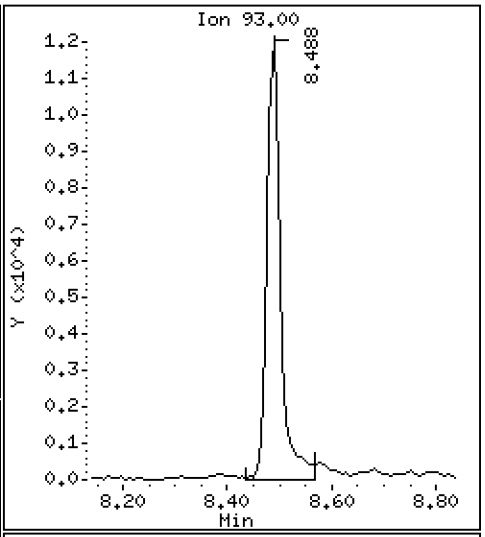
Column phase: ZB-5msi

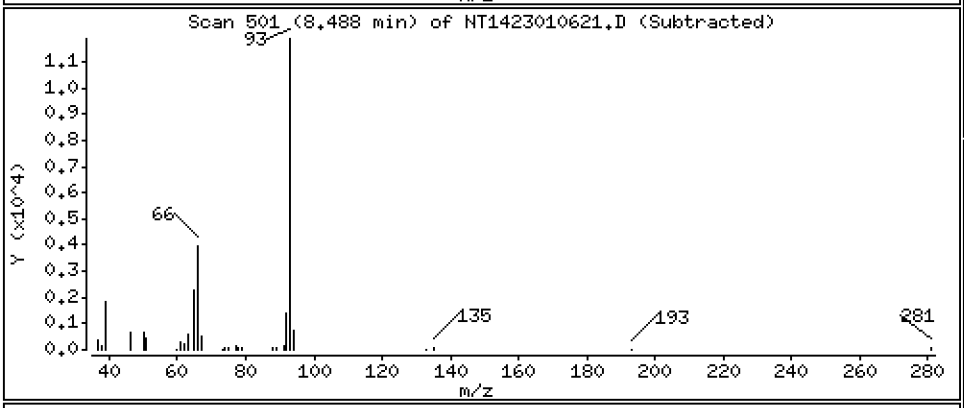
Column diameter: 0.25

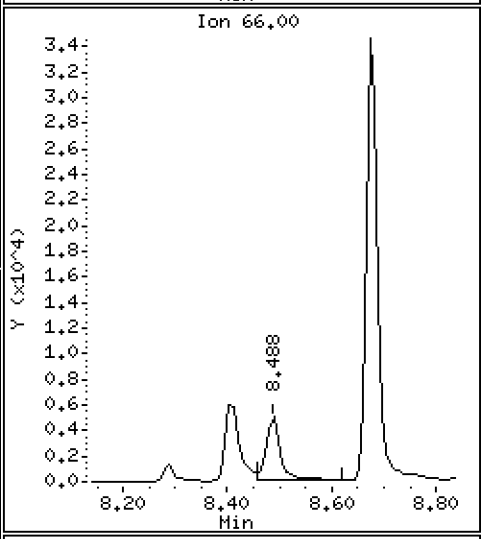
91 Aniline

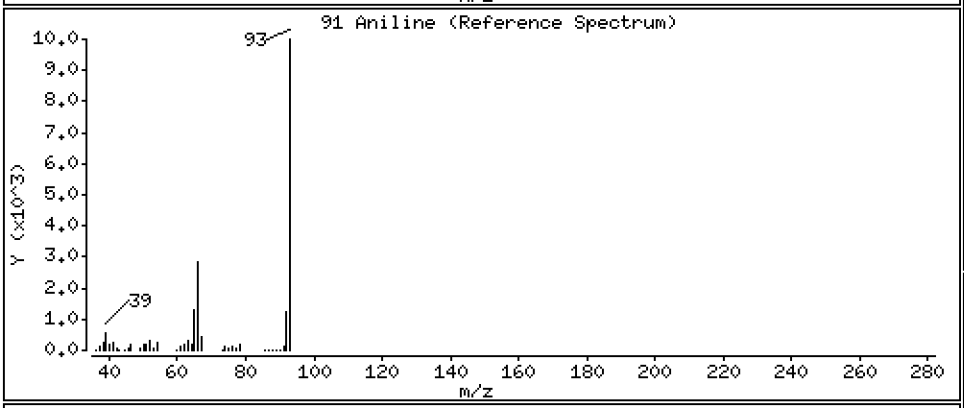
Concentration: 0.4029 ug/mL

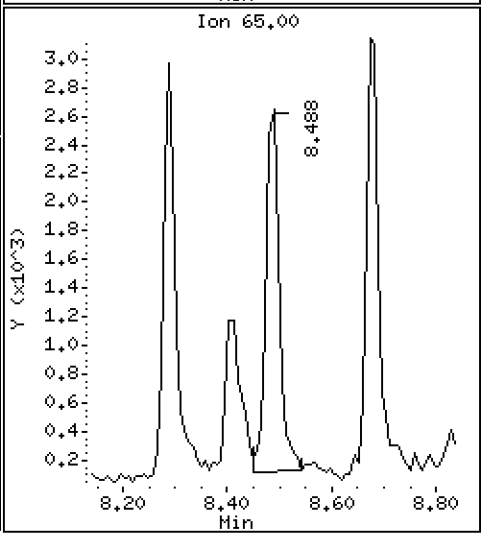


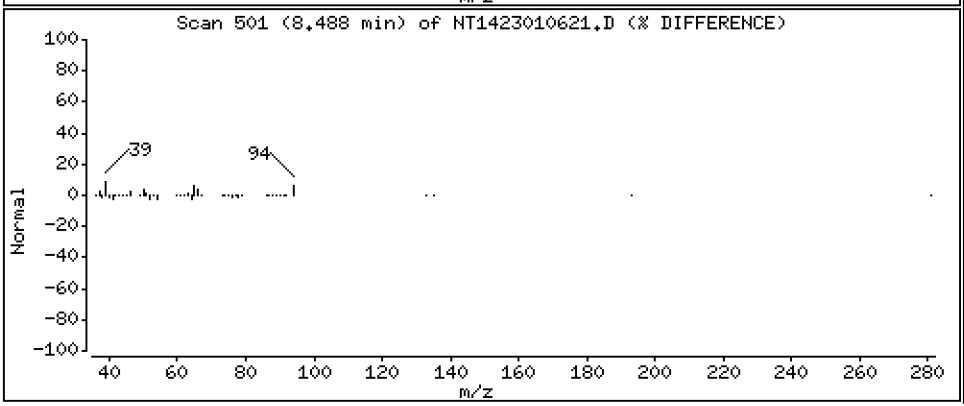












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Date : 06-JAN-2023 23:39

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BLK2

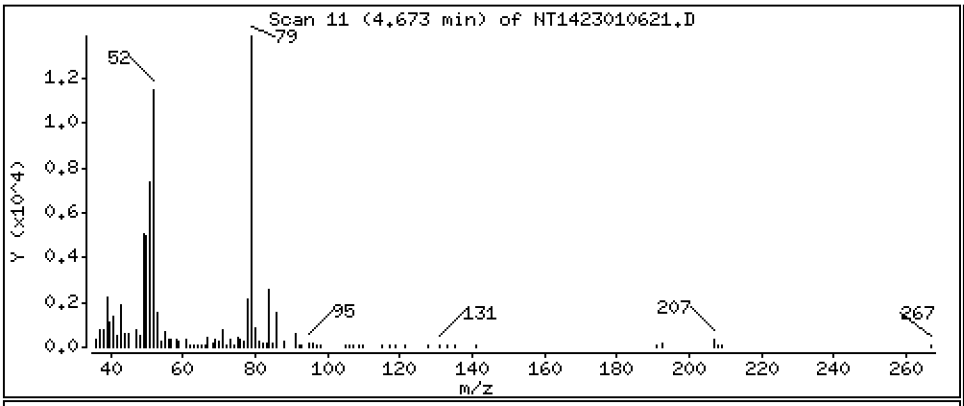
Operator: VTS

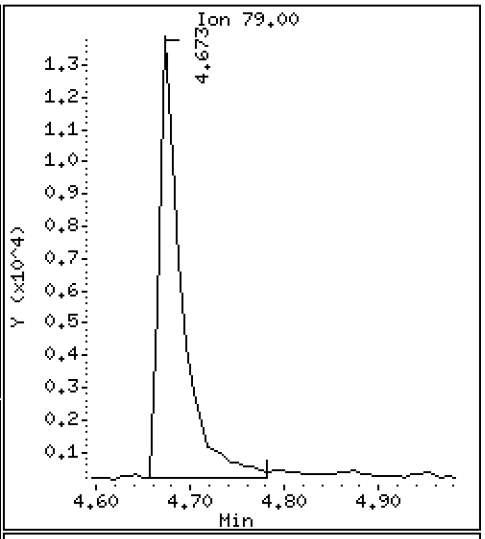
Column phase: ZB-5msi

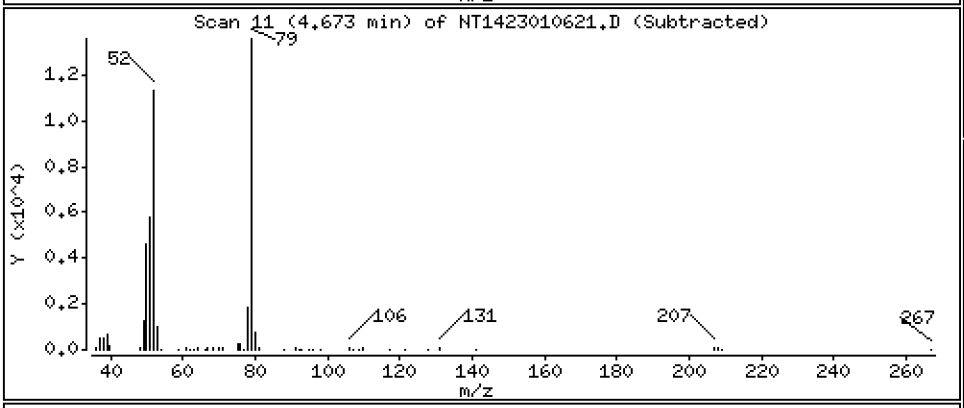
Column diameter: 0.25

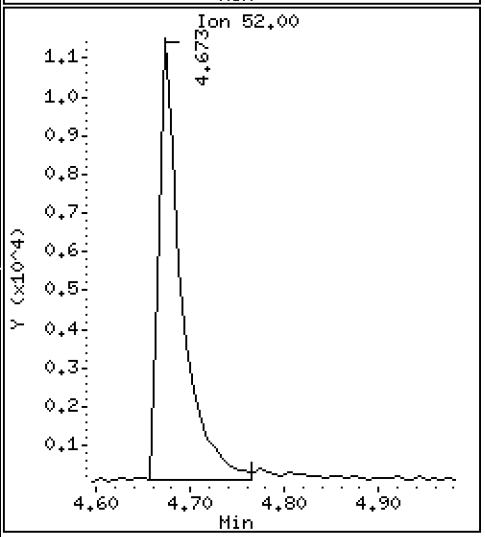
103 Pyridine

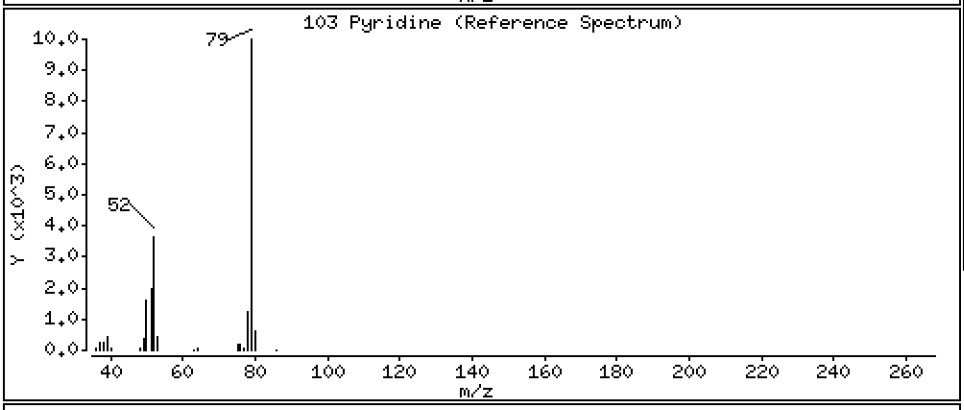
Concentration: 0.2709 ug/mL

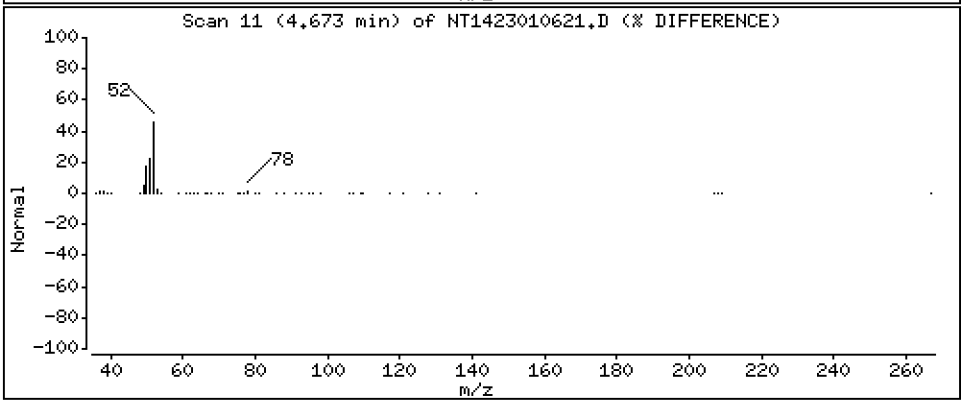












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010621.D
Lab Smp Id: BKL0585-BLK2
Inj Date : 06-JAN-2023 23:39 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-BLK2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	176840	4.65631	4.656
$	2 Phenol-d5	99	8.411	8.403	(0.931)	222224	4.73476	4.735
	3 Phenol	94	Compound Not Detected.					
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	204082	5.17742	5.177
	4 Bis(2-Chloroethyl)ether	93	8.488	8.580	(0.939)	20920	0.56944	0.5694
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	118545	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	9.394	9.401	(1.040)	94887	3.52202	3.522
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	Compound Not Detected.					
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	155818	4.14663	4.147
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	11.535	11.534	(1.000)	444993	4.00000	
	28 Naphthalene	128	11.573	11.581	(1.003)	3248	0.02966	0.02966
	29 4-Chloroaniline	127	11.712	11.712	(1.015)	7212	0.15969	0.1597
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	264852	3.95702	3.957
37	2-Chloronaphthalene	162	Compound Not Detected.					
38	2-Nitroaniline	65	Compound Not Detected.					
39	Dimethylphthalate	163	Compound Not Detected.					
40	Acenaphthylene	152	Compound Not Detected.					
41	2,6-Dinitrotoluene	165	Compound Not Detected.					
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	199072	4.00000	
43	3-Nitroaniline	138	15.101	15.093	(0.995)	12084	0.78472	0.7847
44	Acenaphthene	153	Compound Not Detected.					
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	Compound Not Detected.					
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	Compound Not Detected.					
50	Diethylphthalate	149	16.130	16.137	(1.063)	3905	0.05117	0.05117
49	Fluorene	166	Compound Not Detected.					
51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
52	4-Nitroaniline	138	16.377	16.361	(1.079)	1238	0.06685	0.06685
53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	40114	4.20931	4.209
56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	361541	4.00000	
60	Phenanthrene	178	18.262	18.269	(1.003)	3310	0.03511	0.03511
61	Anthracene	178	Compound Not Detected.					
62	Carbazole	167	Compound Not Detected.					
63	Di-n-butylphthalate	149	Compound Not Detected.					
64	Fluoranthene	202	20.652	20.652	(0.888)	2075	0.02482	0.02482
65	Pyrene	202	21.085	21.077	(0.906)	2180	0.02481	0.02481
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	310940	4.98973	4.990
67	Butylbenzylphthalate	149	Compound Not Detected.					
68	Benzo(a)anthracene	228	Compound Not Detected.					
* 69	Chrysene-d12	240	23.269	23.276	(1.000)	259600	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	57895	2.40490	2.405
71	Chrysene	228	Compound Not Detected.					
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	3412	0.06518	0.06518
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	471355	4.00000	
73	Di-n-octylphthalate	149	Compound Not Detected.					
74	Benzo(b)fluoranthene	252	Compound Not Detected.					
75	Benzo(k)fluoranthene	252	Compound Not Detected.					
76	Benzo(a)pyrene	252	Compound Not Detected.					
* 77	Perylene-d12	264	25.901	25.901	(1.000)	279477	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.488	8.487	(0.939)	20920	0.40287	0.4029
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.672	4.633	(0.517)	22518	0.27093	0.2709
105	1-methylnaphthalene	142	Compound Not Detected.					
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010621.D
Lab Smp Id: BKL0585-BLK2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	118545	3.97
27 Naphthalene-d8	420653	210327	841306	444993	5.79
42 Acenaphthene-d10	216802	108401	433604	199072	-8.18
59 Phenanthrene-d10	366121	183061	732242	361541	-1.25
69 Chrysene-d12	276883	138442	553766	259600	-6.24
134 Di-n-octylphthala	540641	270321	1081282	471355	-12.82
77 Perylene-d12	308305	154153	616610	279477	-9.35

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.28	22.78	23.78	23.27	-0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010621.D

Lab ID: BKL0585-BLK2
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 23:39

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.939	0.949	-0.0102	Bis(2-Chloroethyl)ether

RRT check based on Ccal File: NT1423010619.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 15:56
Batch:	BKL0489	Laboratory ID:	BKL0489-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Butylbenzylphthalate	500	537		107	45 - 132

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Butylbenzylphthalate	500	563		113	4.67	30	45 - 132

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D

Date : 05-JAN-2023 15:56

Client ID:

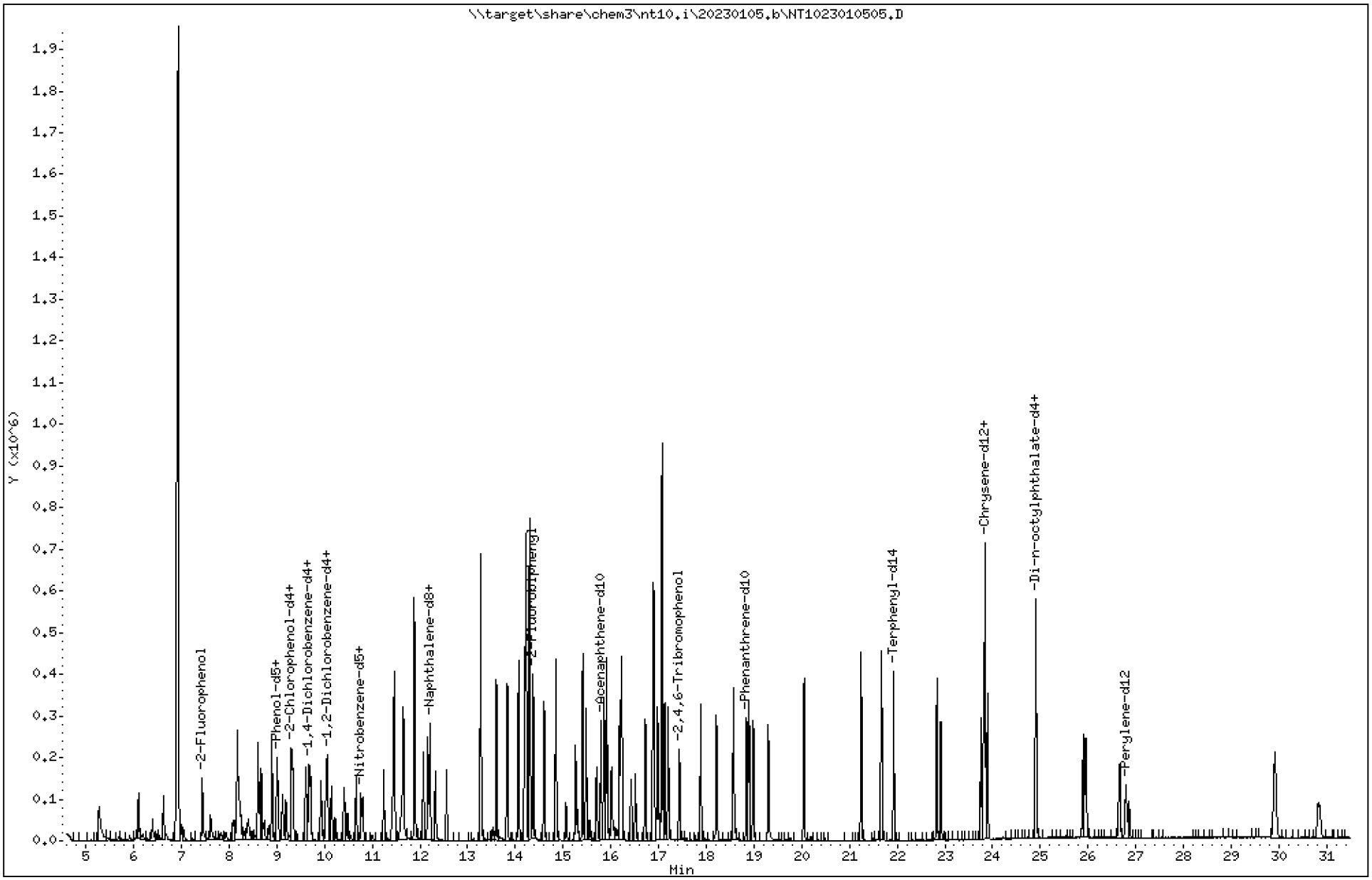
Instrument: nt10.i

Sample Info: BKL0489-BS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 632 of 5449

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D

Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

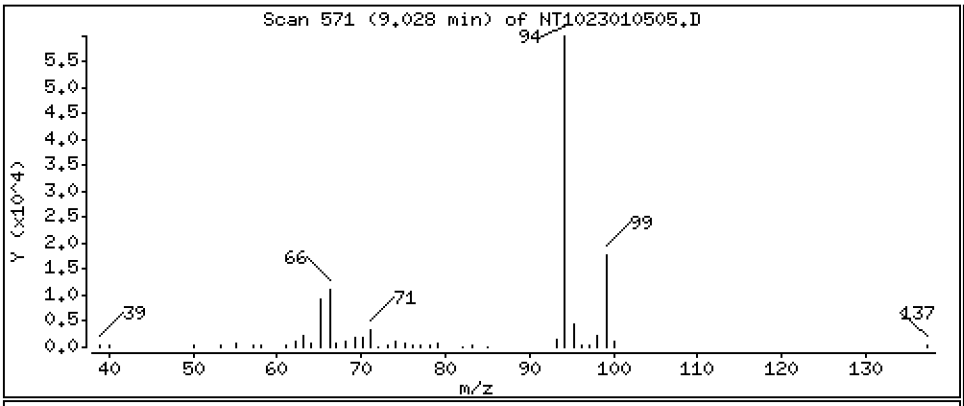
Operator: VTS

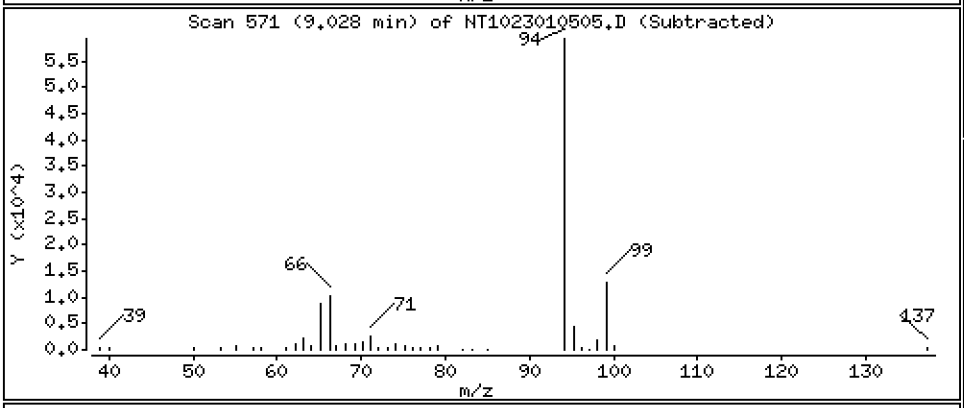
Column phase: ZB-5msi

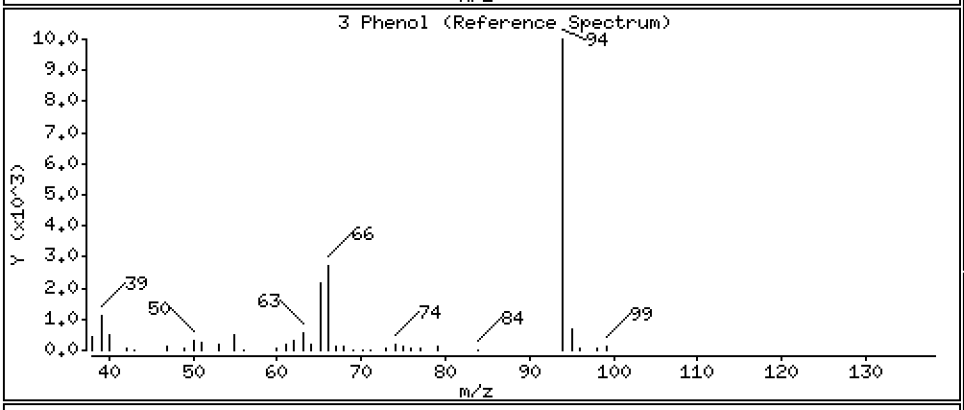
Column diameter: 0.25

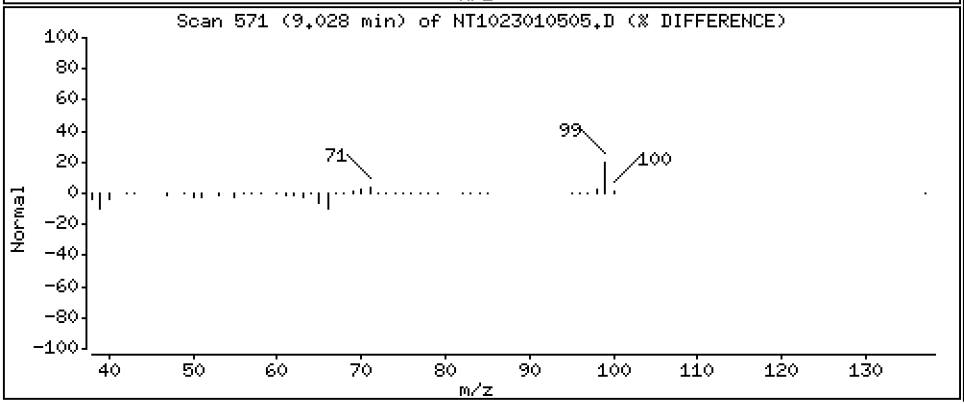
3 Phenol

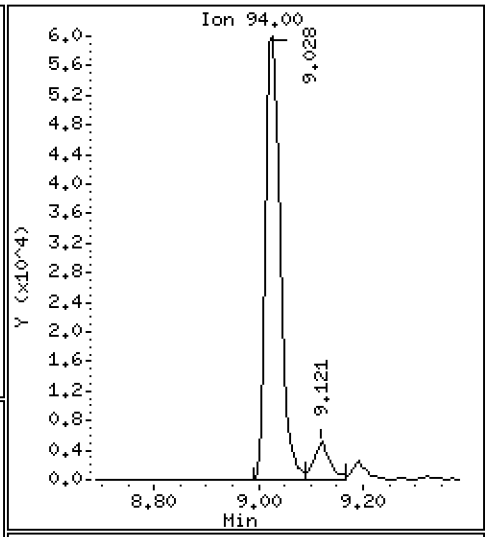
Concentration: 4.530 ug/mL

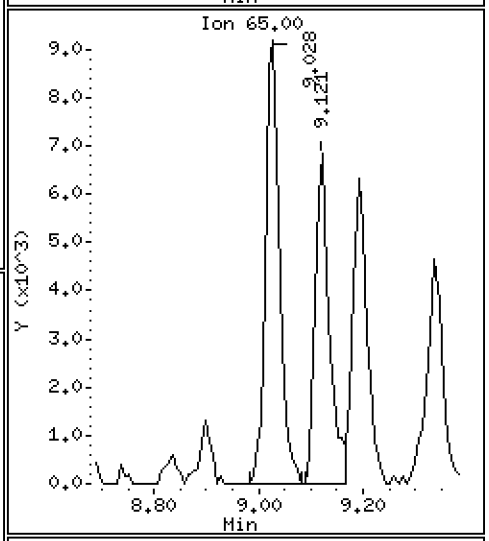


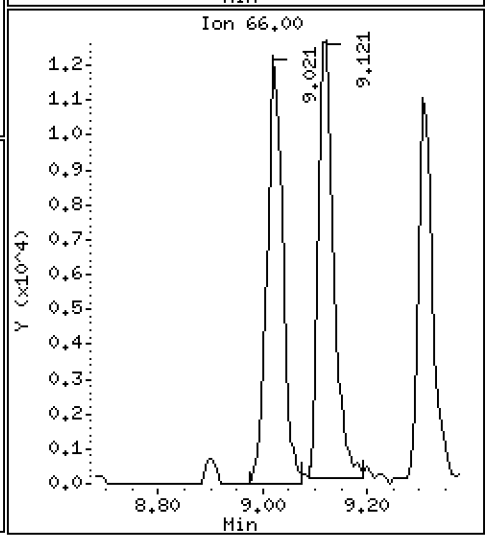












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

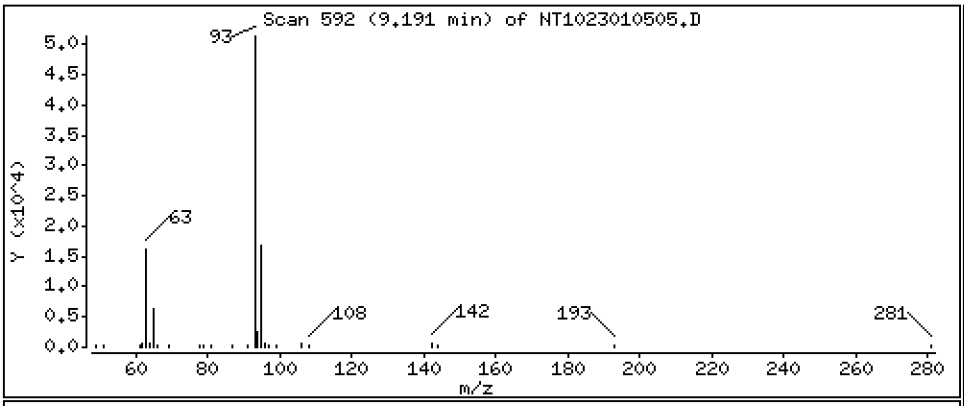
Operator: VTS

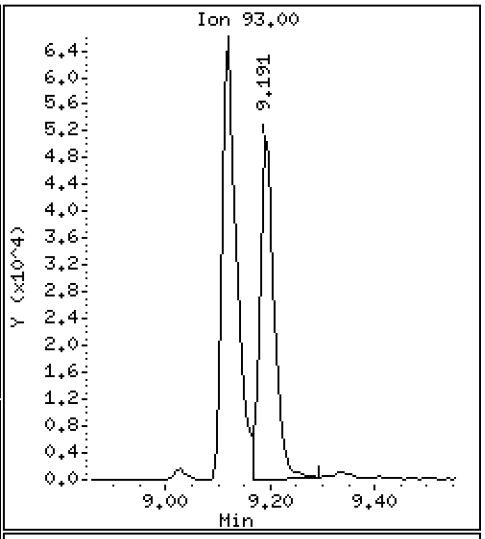
Column phase: ZB-5msi

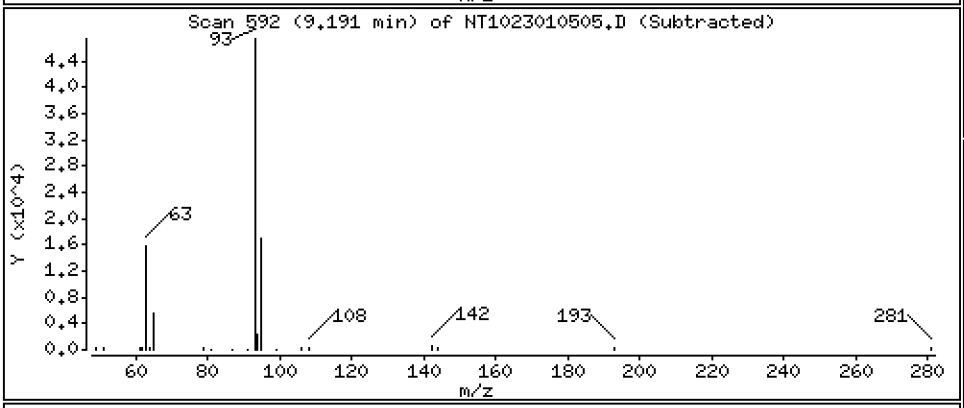
Column diameter: 0.25

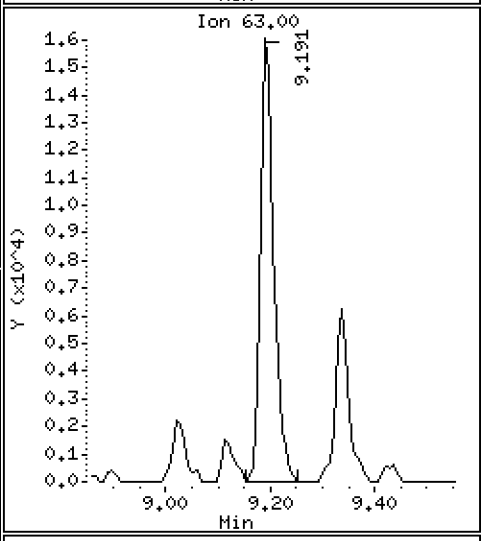
4 Bis(2-Chloroethyl)ether

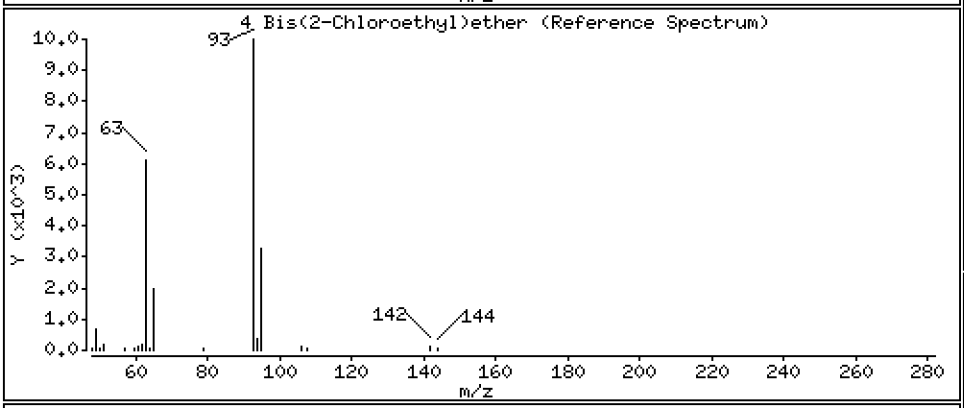
Concentration: 4.478 ug/mL

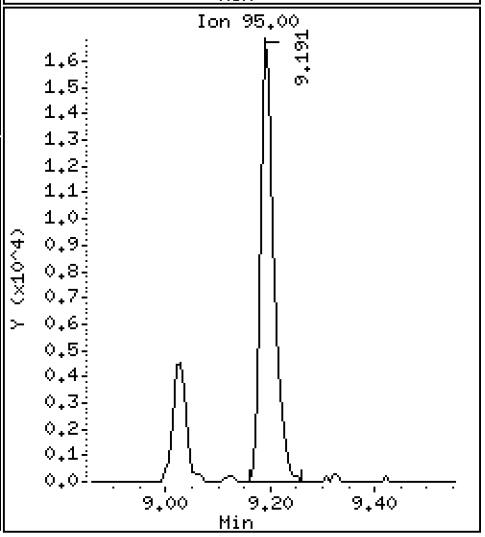


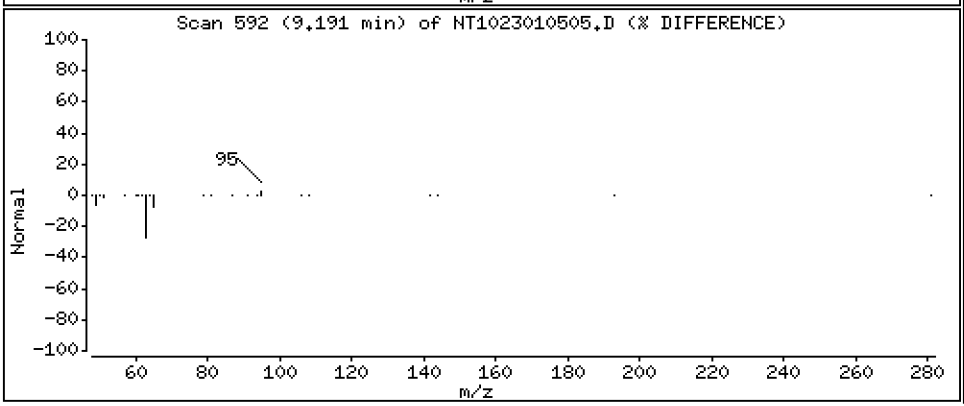












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

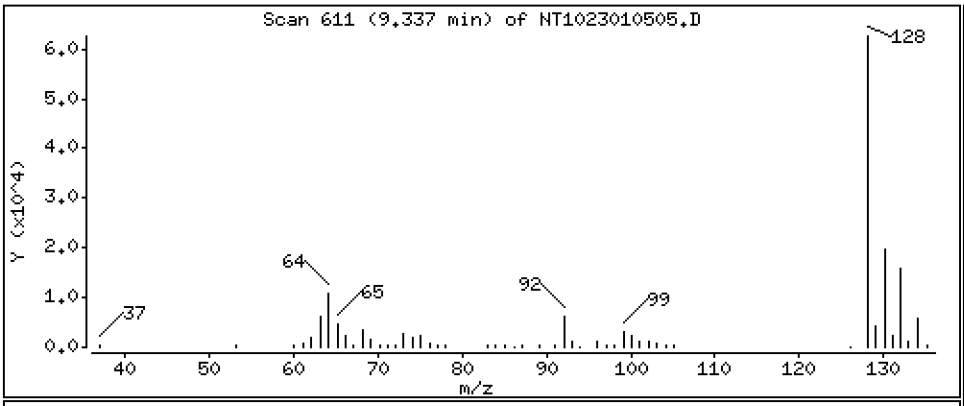
Operator: VTS

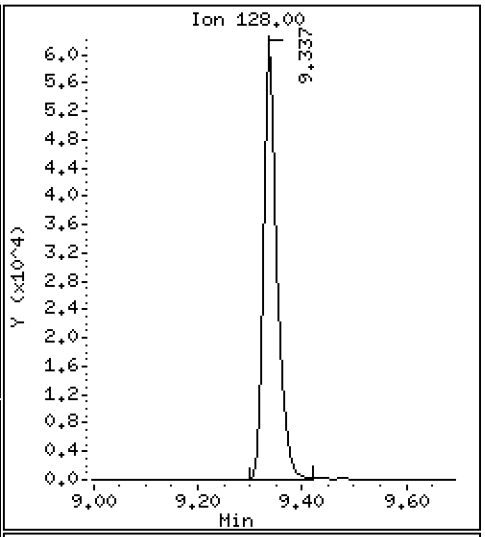
Column phase: ZB-5msi

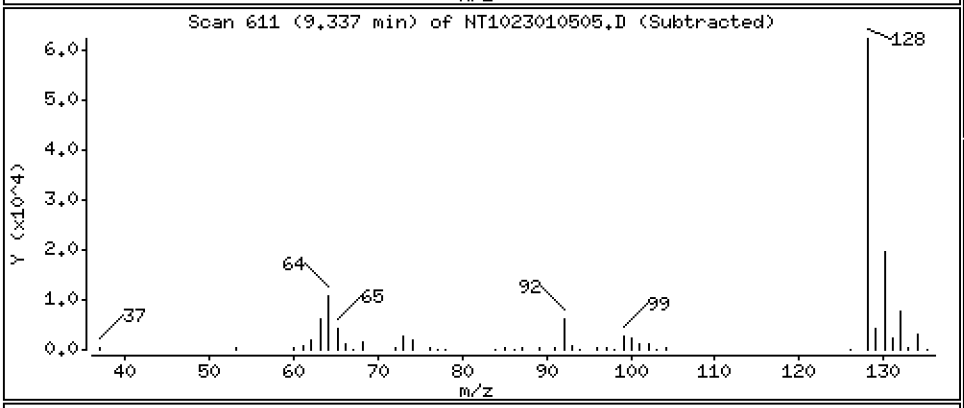
Column diameter: 0.25

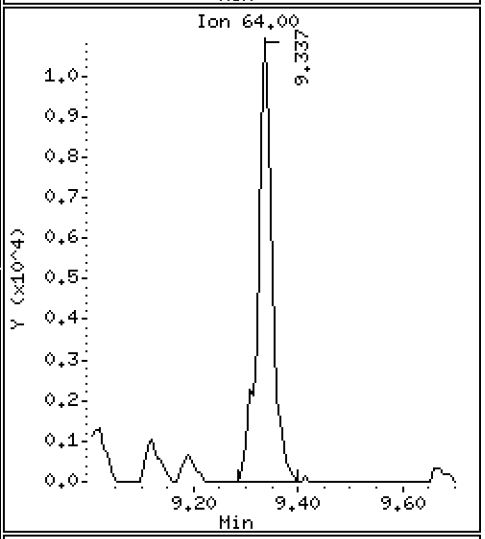
6 2-Chlorophenol

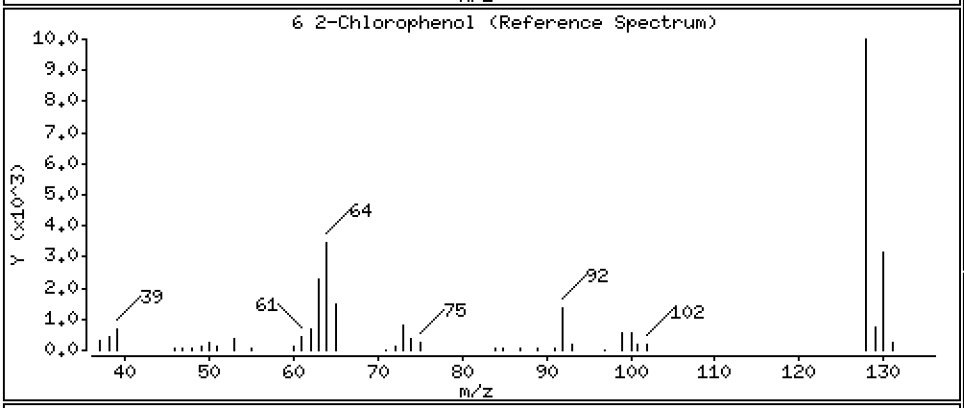
Concentration: 4.587 ug/mL

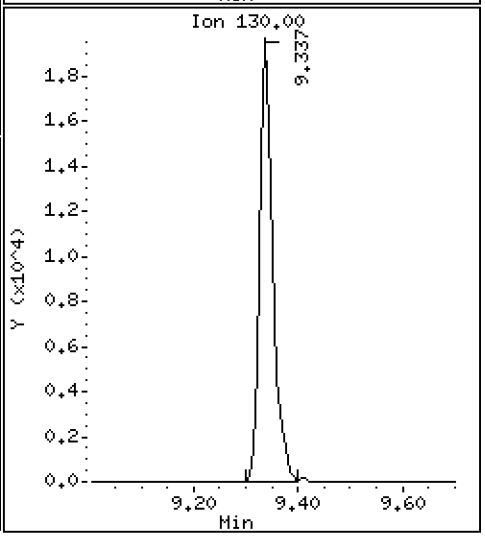


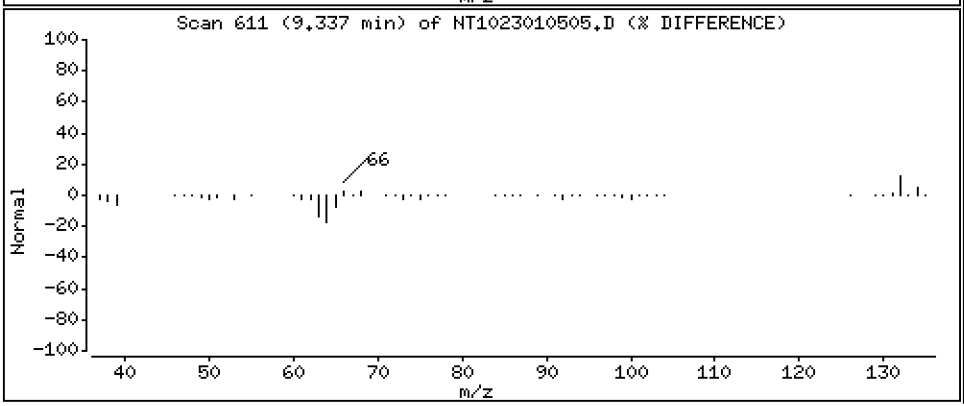












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

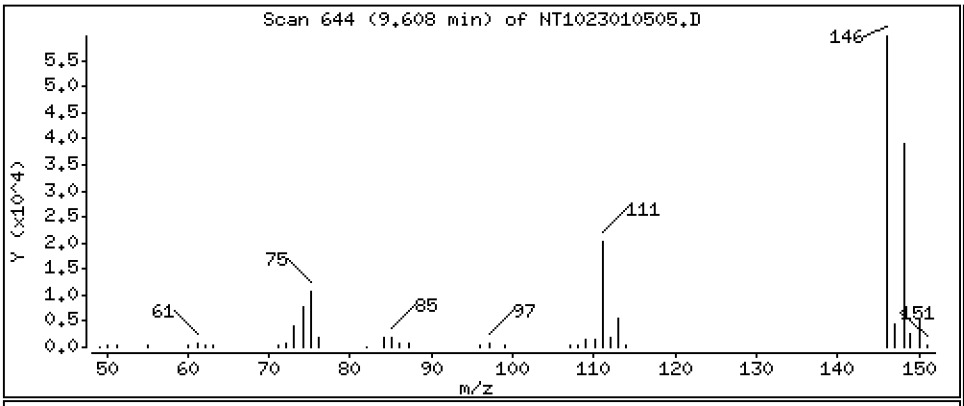
Operator: VTS

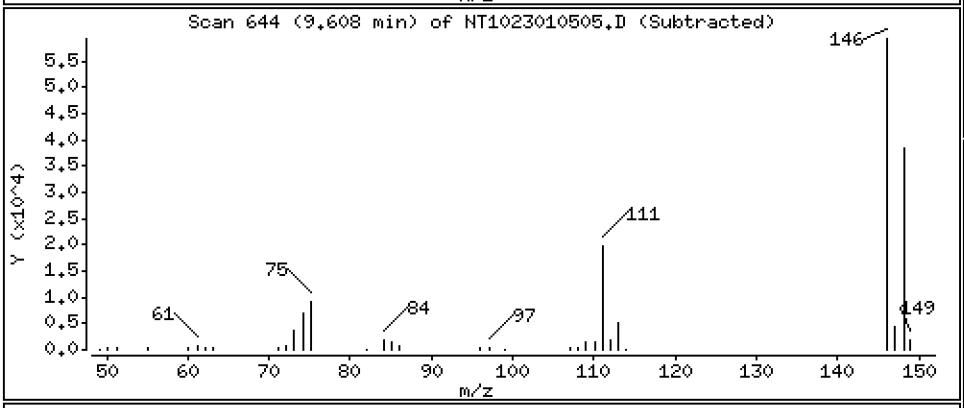
Column phase: ZB-5msi

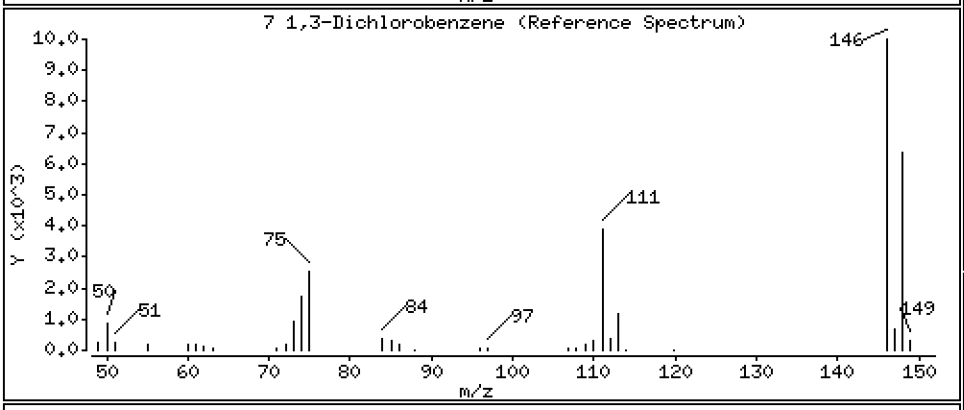
Column diameter: 0.25

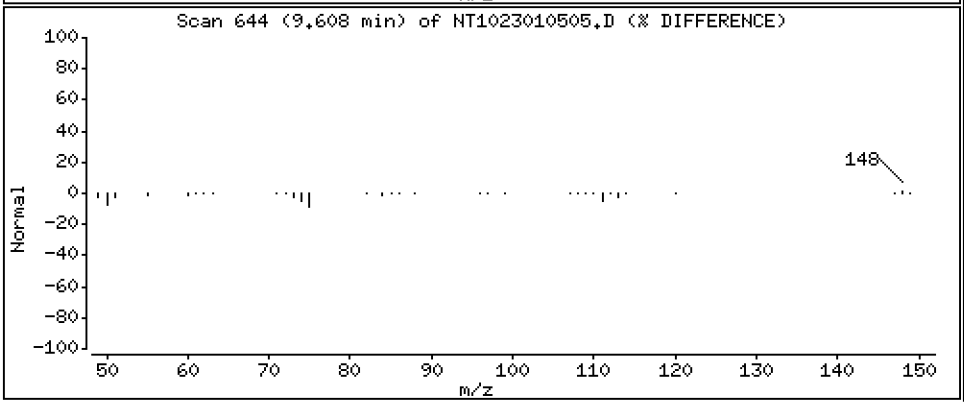
7 1,3-Dichlorobenzene

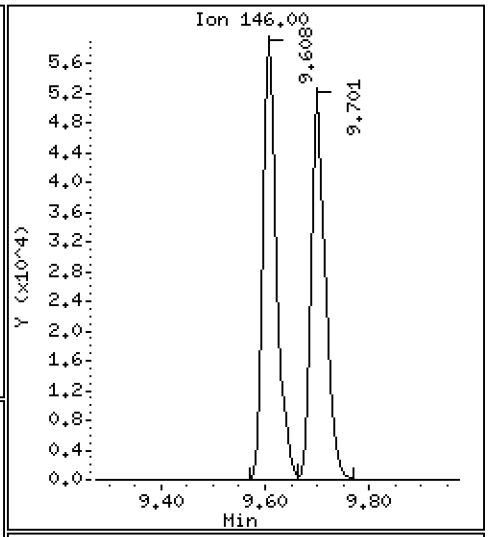
Concentration: 4.418 ug/mL

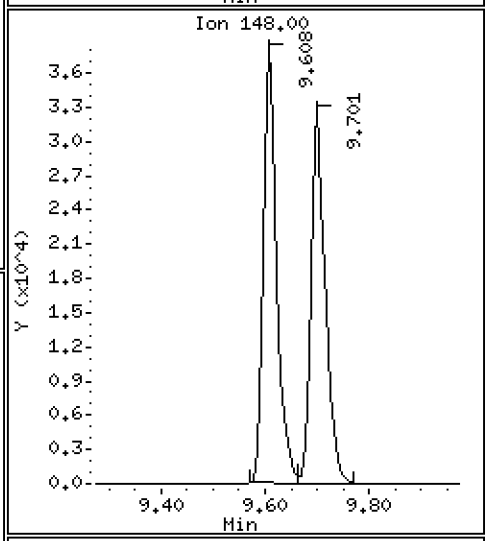


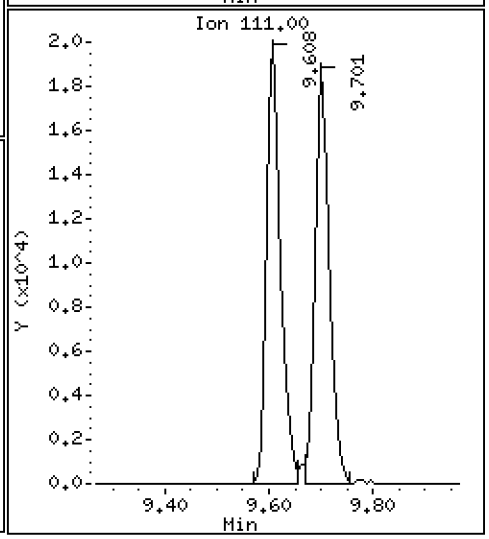












Date : 05-JAN-2023 15:56

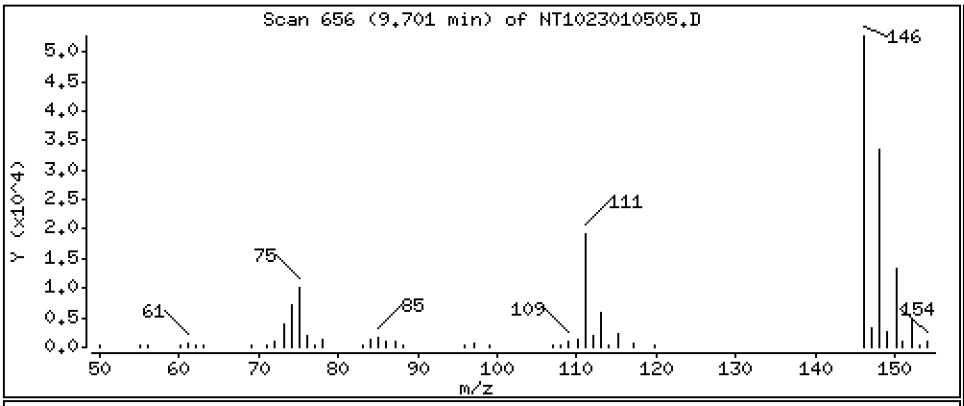
Client ID: Instrument: nt10.i

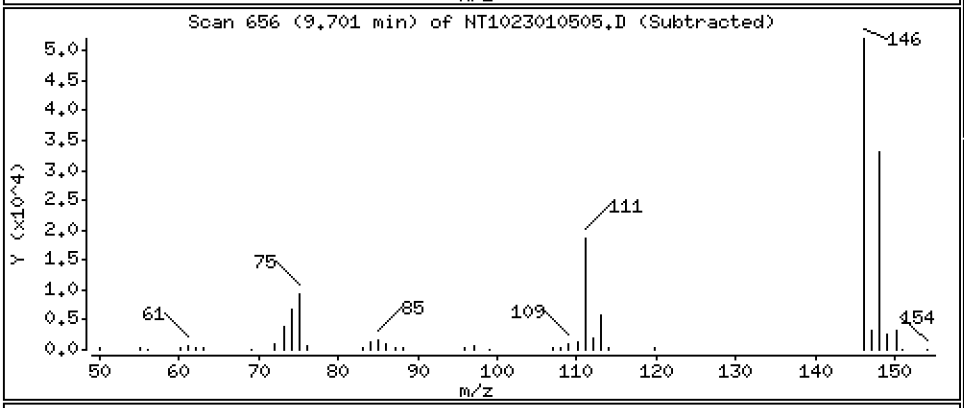
Sample Info: BKL0489-BS1

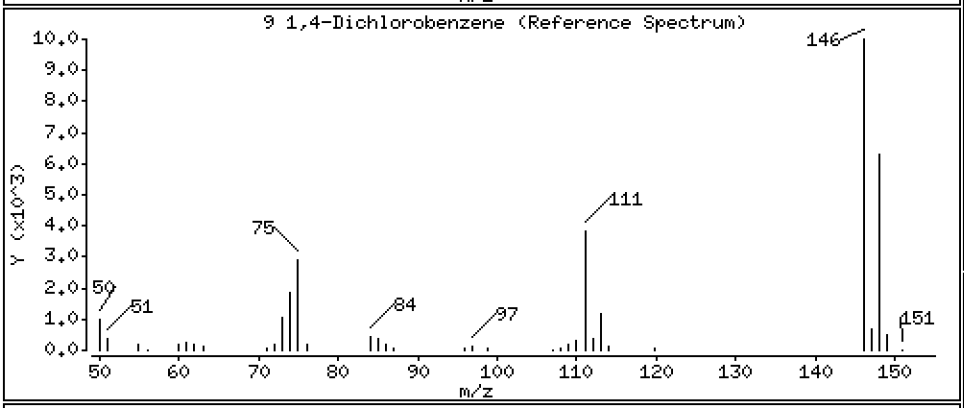
Operator: VTS

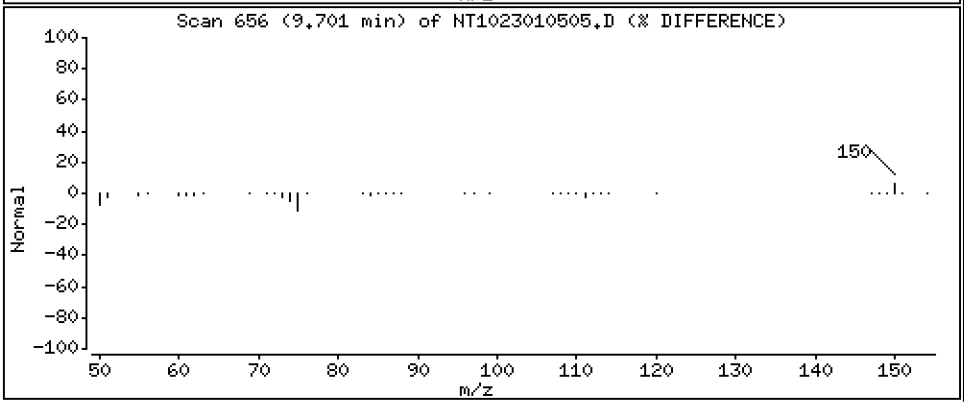
Column phase: ZB-5msi Column diameter: 0.25

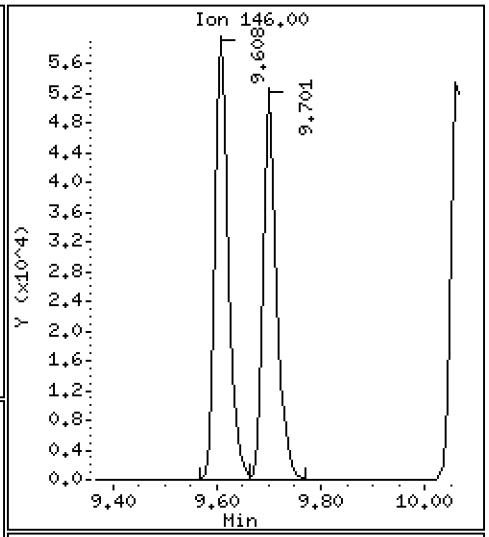
9 1,4-Dichlorobenzene Concentration: 4.395 ug/mL

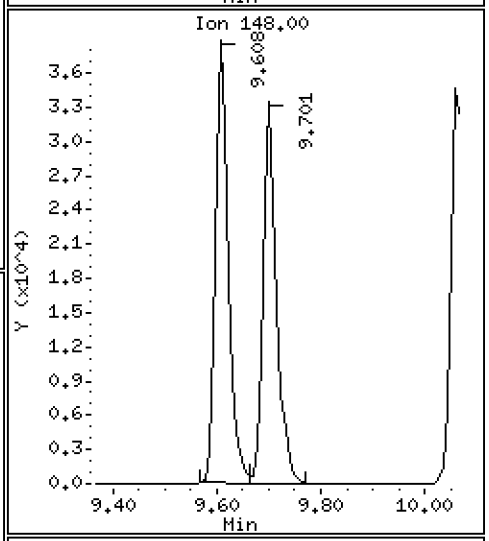


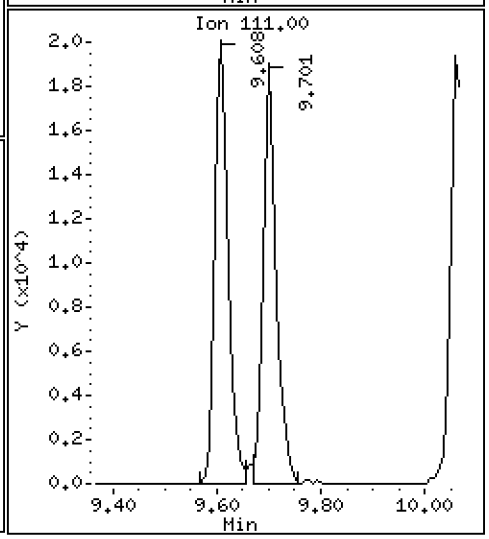












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

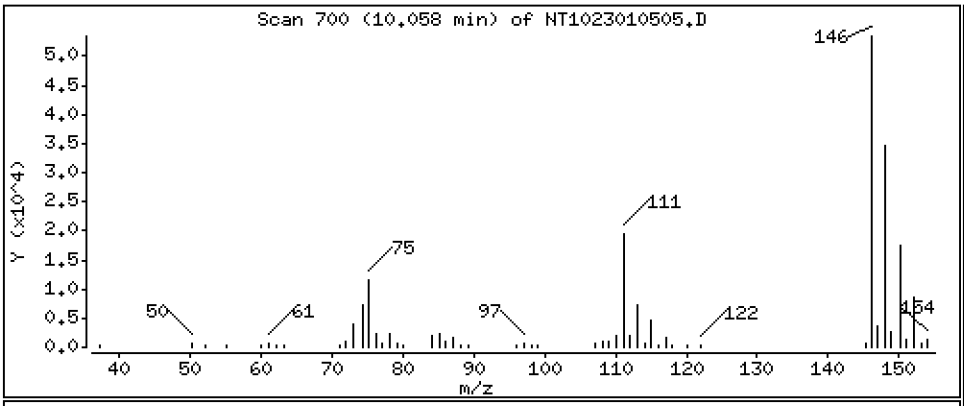
Operator: VTS

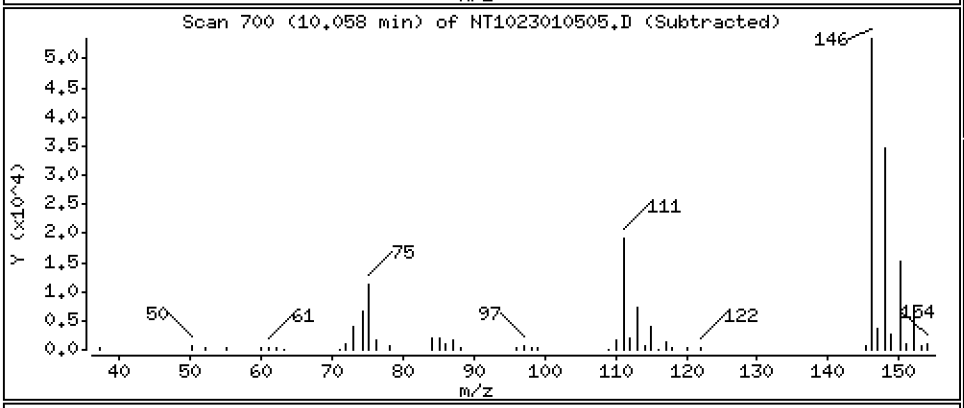
Column phase: ZB-5msi

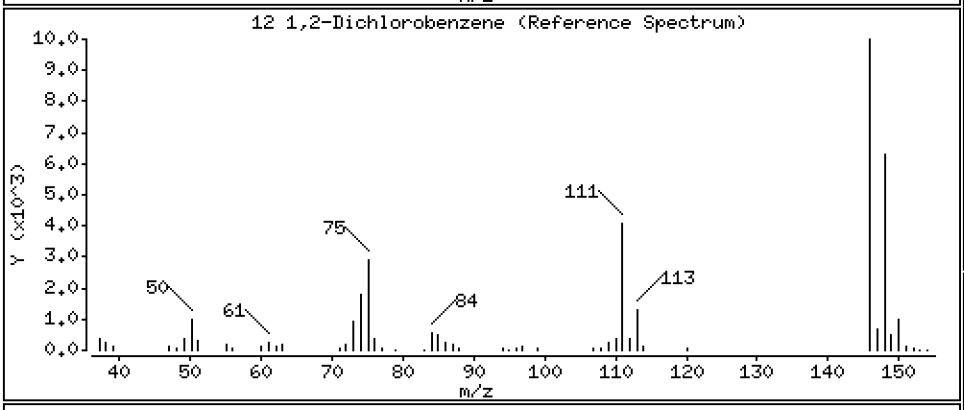
Column diameter: 0.25

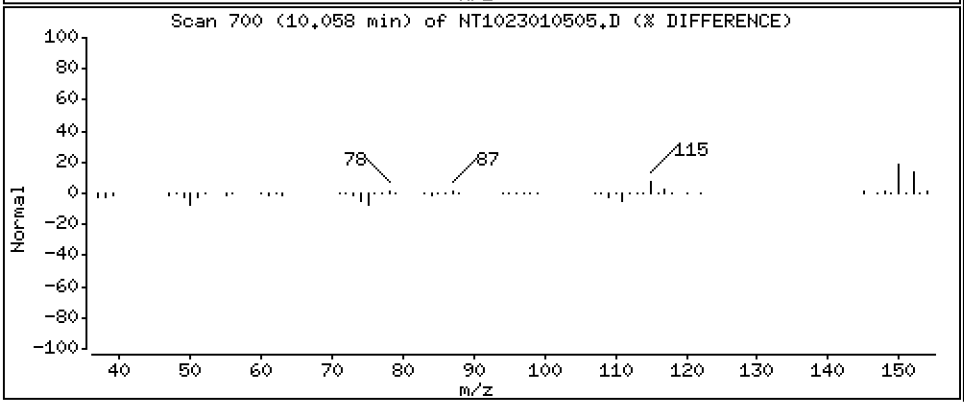
12 1,2-Dichlorobenzene

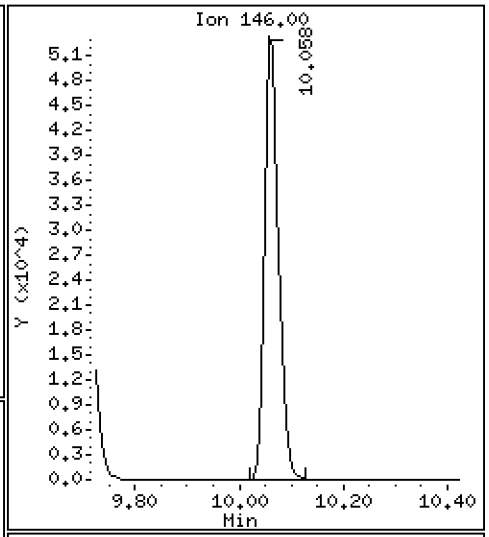
Concentration: 4.475 ug/mL

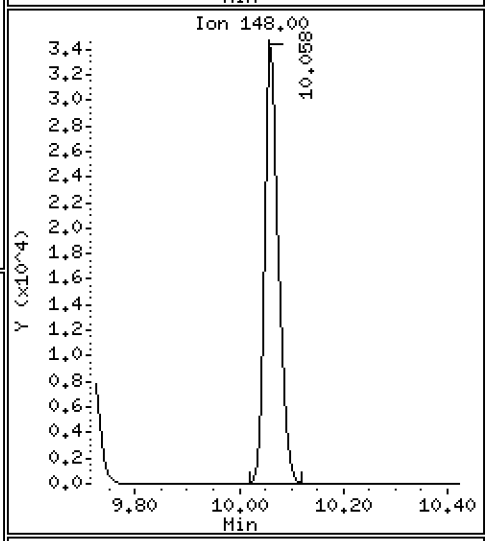


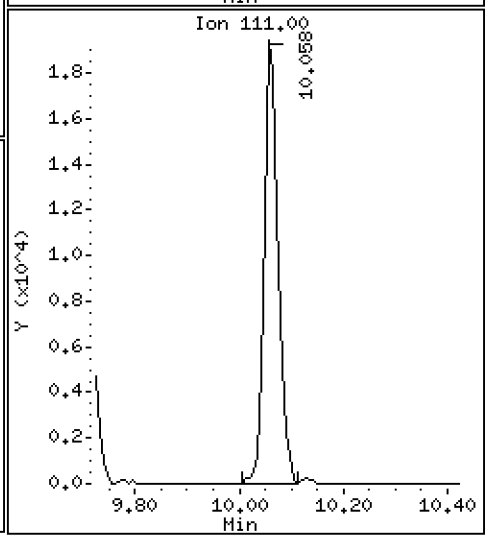












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

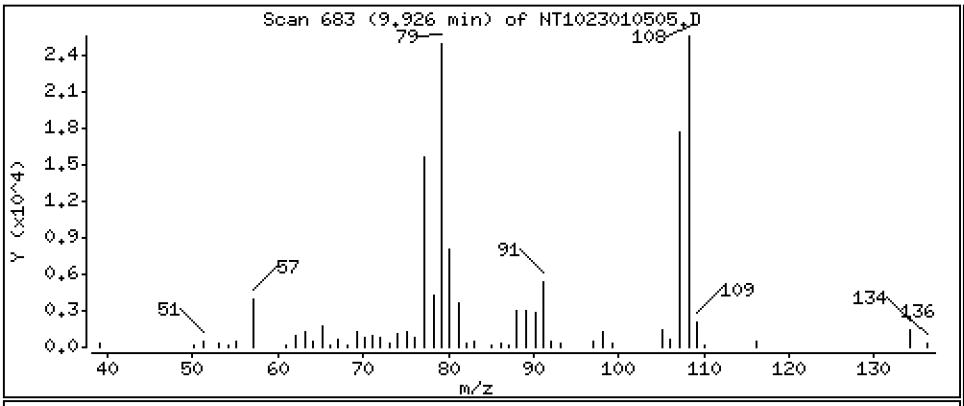
Operator: VTS

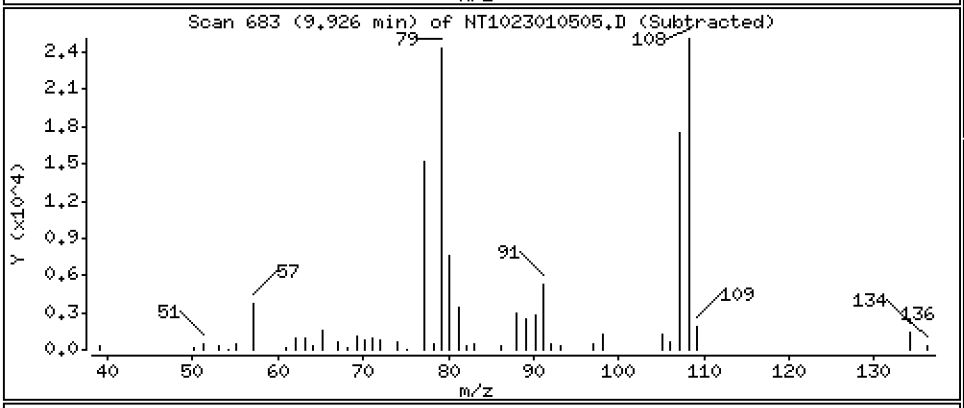
Column phase: ZB-5msi

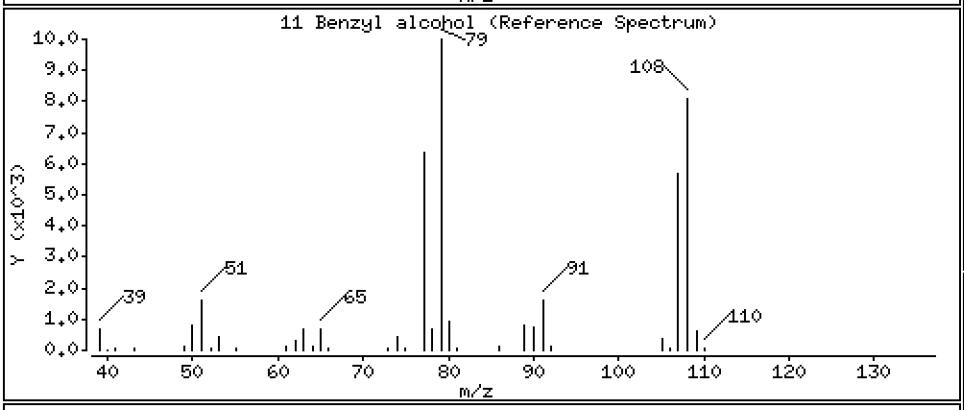
Column diameter: 0.25

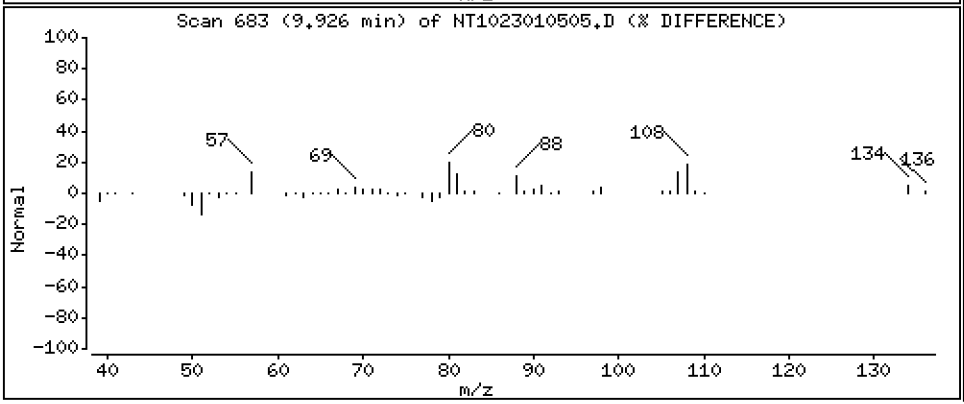
11 Benzyl alcohol

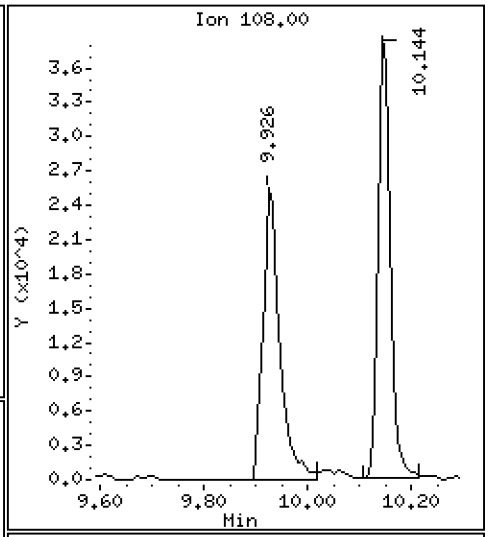
Concentration: 4.807 ug/mL

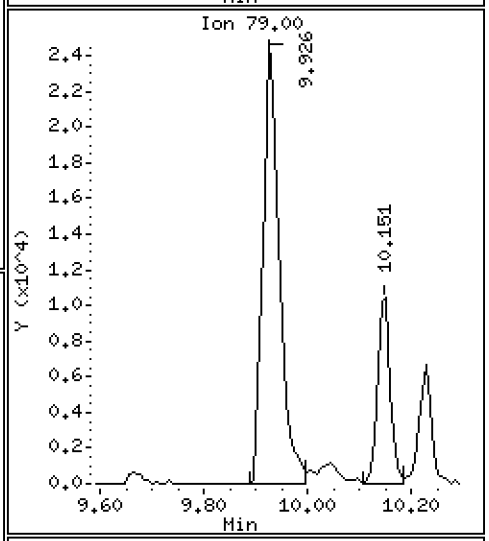


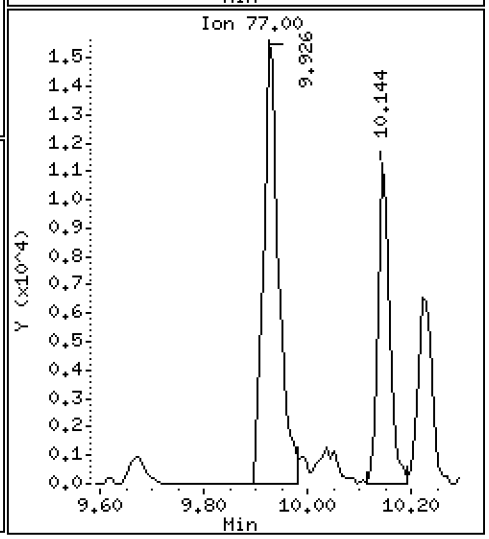












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

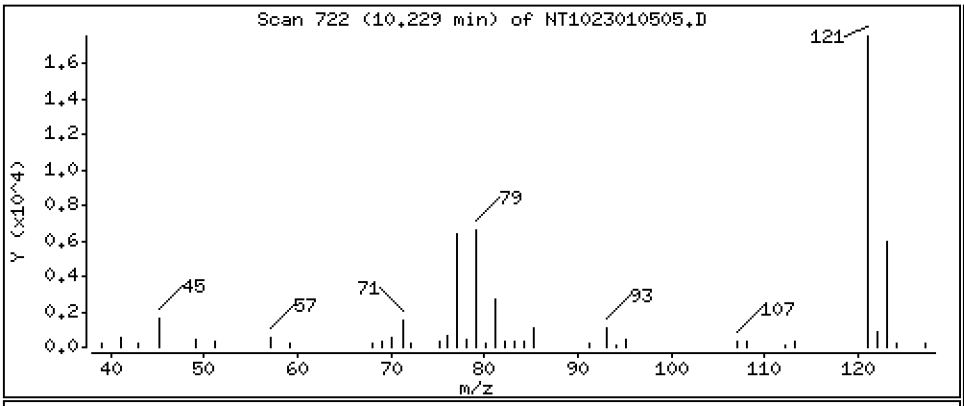
Operator: VTS

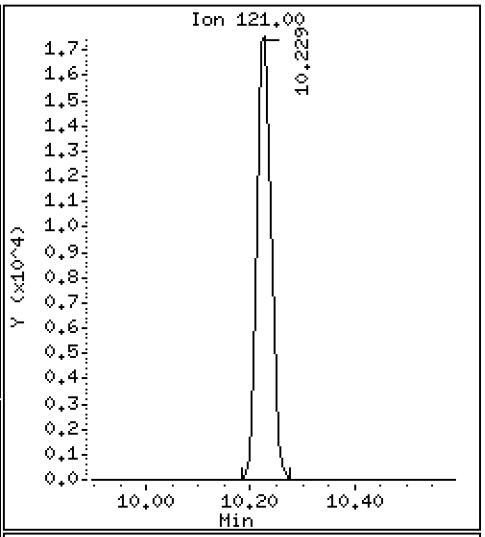
Column phase: ZB-5msi

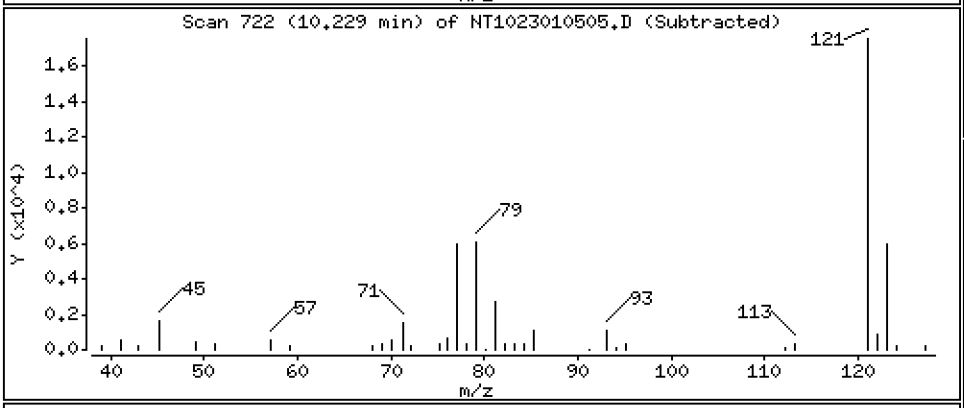
Column diameter: 0.25

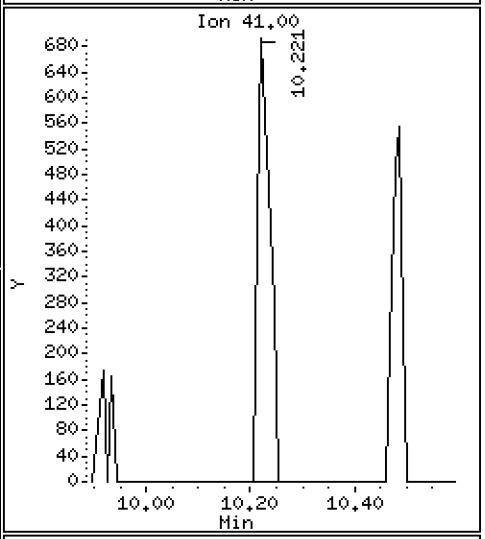
14 2,2'-oxybis(1-Chloropropane)

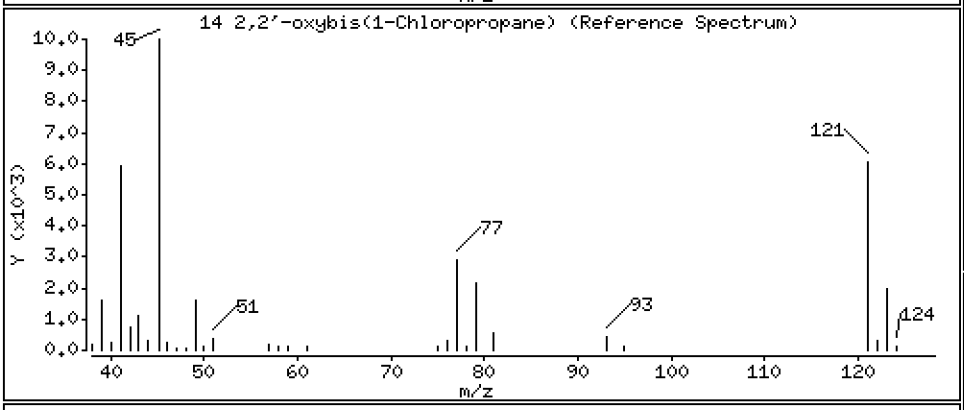
Concentration: 5.173 ug/mL

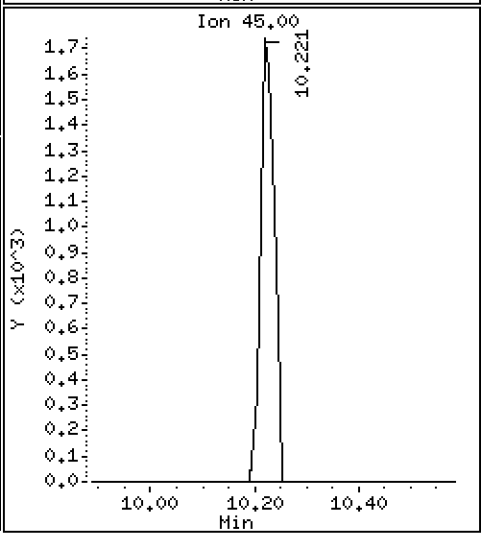


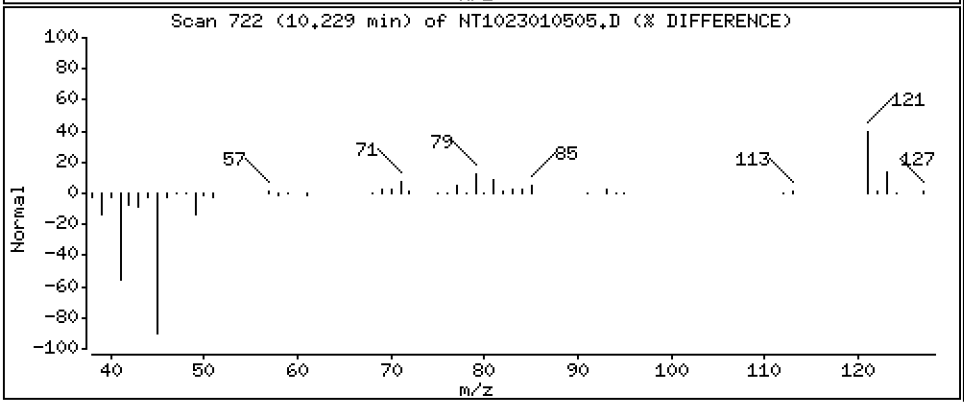












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

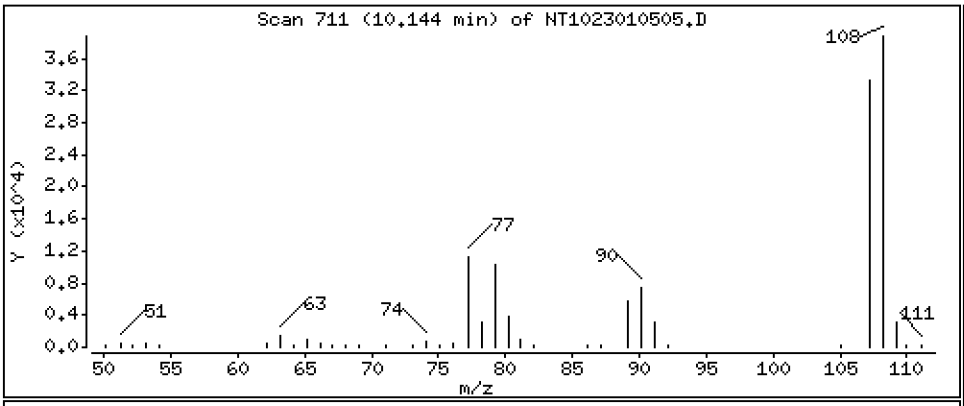
Operator: VTS

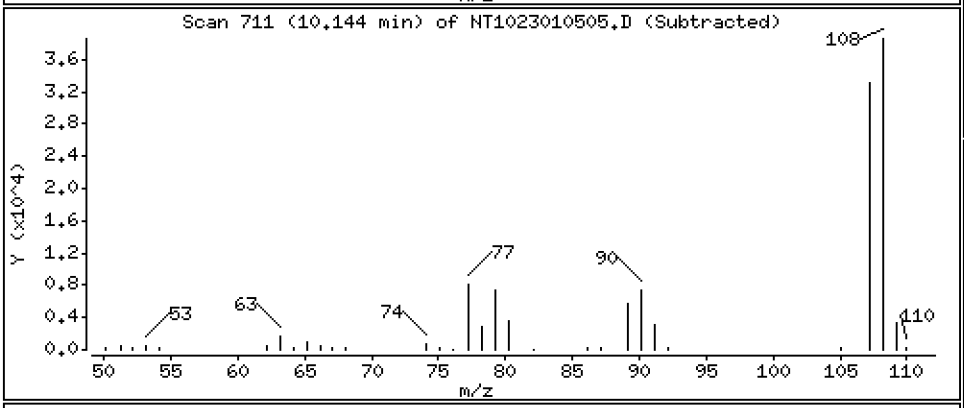
Column phase: ZB-5msi

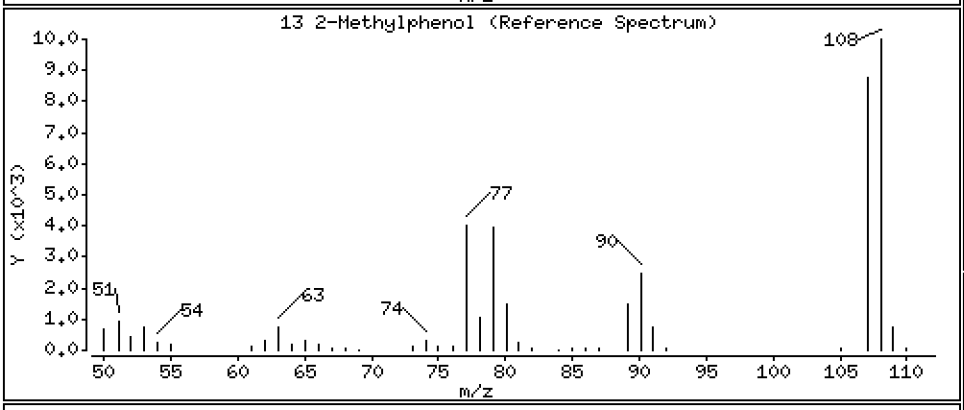
Column diameter: 0.25

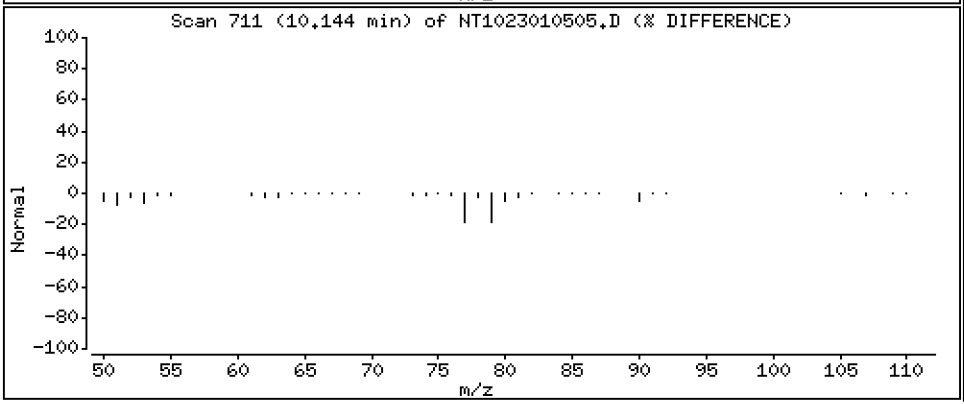
13 2-Methylphenol

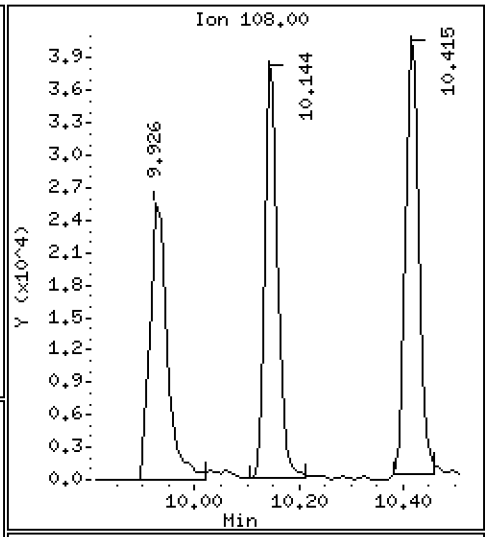
Concentration: 3.908 ug/mL

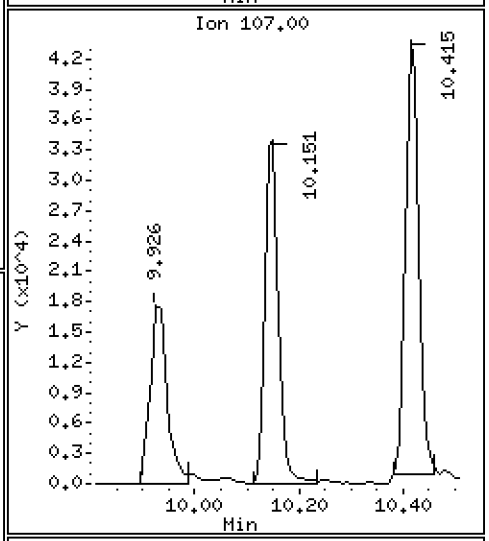


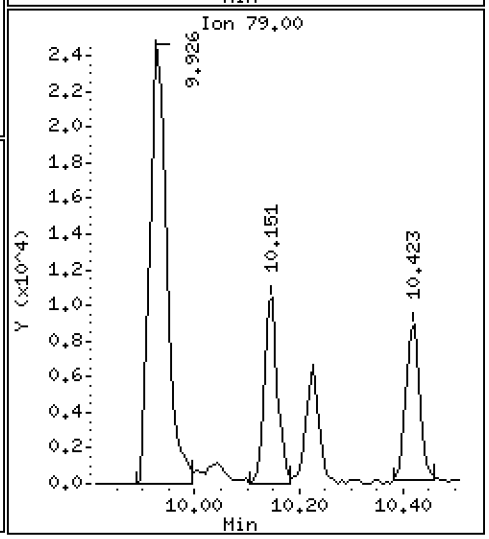












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

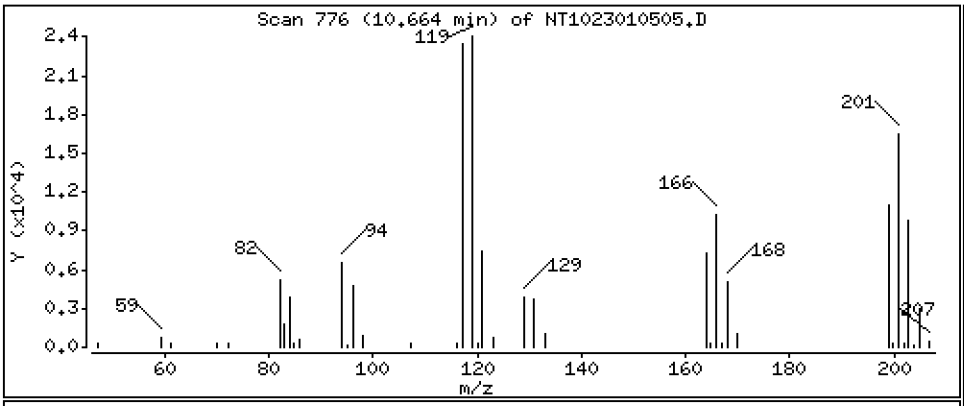
Operator: VTS

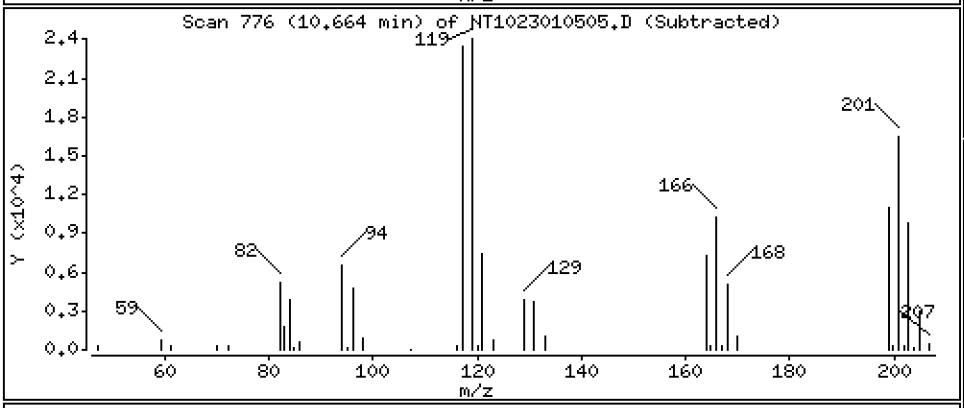
Column phase: ZB-5msi

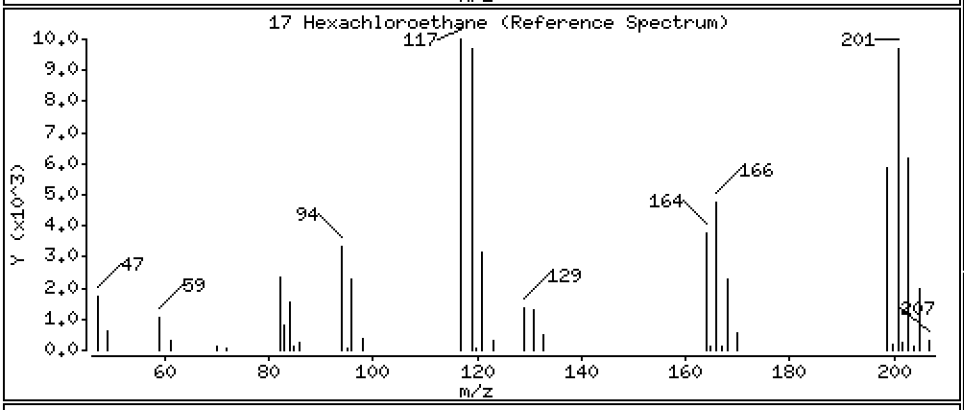
Column diameter: 0.25

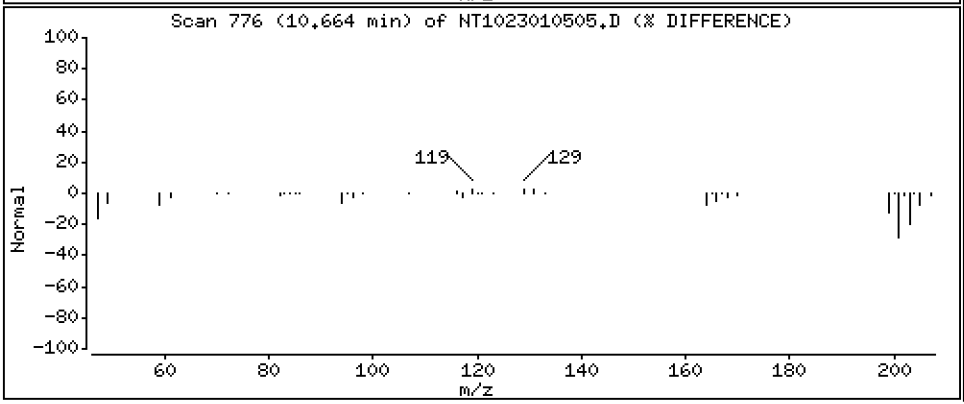
17 Hexachloroethane

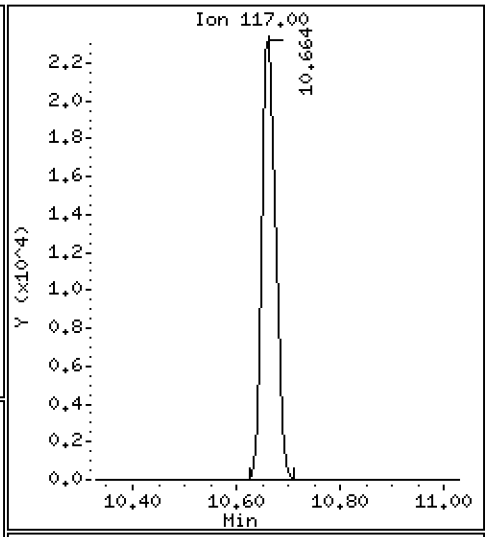
Concentration: 4.454 ug/mL

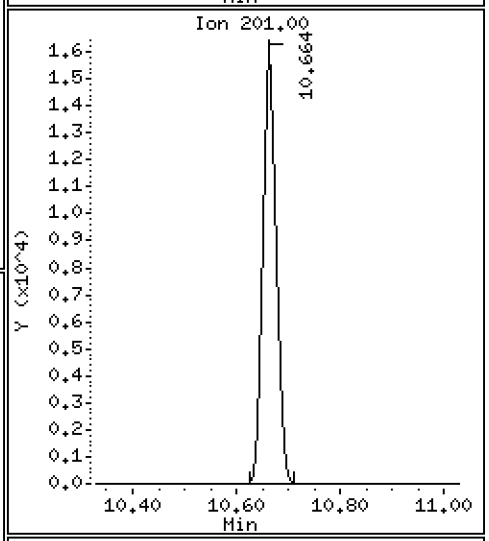


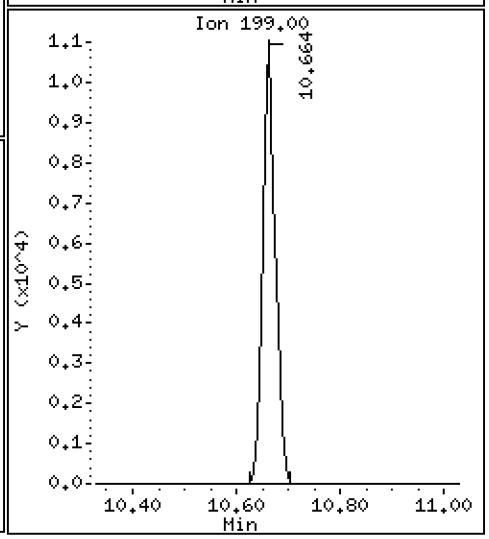












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

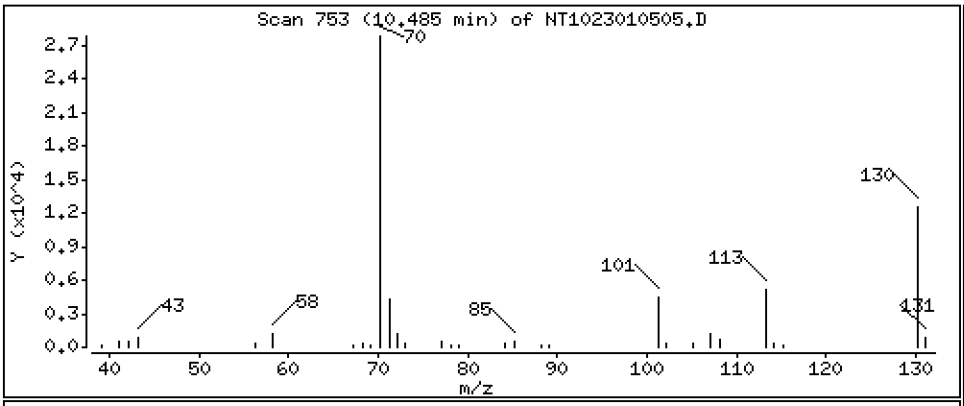
Operator: VTS

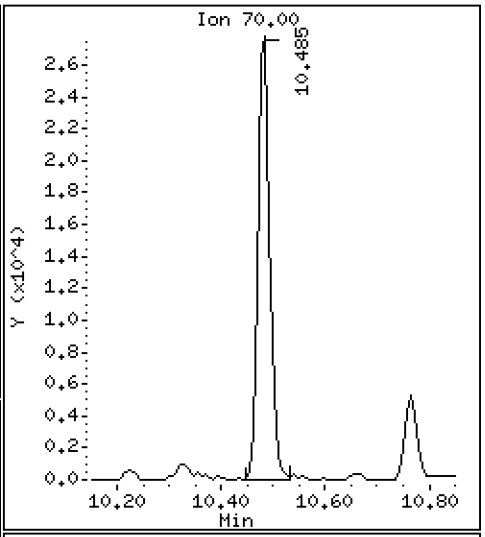
Column phase: ZB-5msi

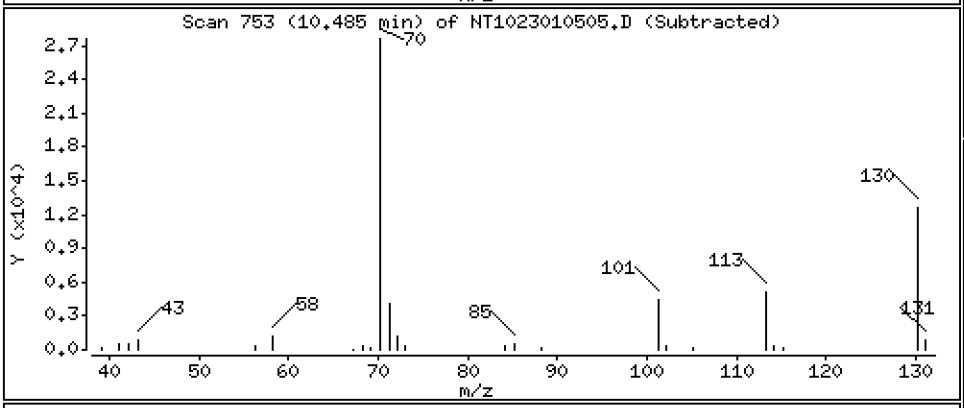
Column diameter: 0.25

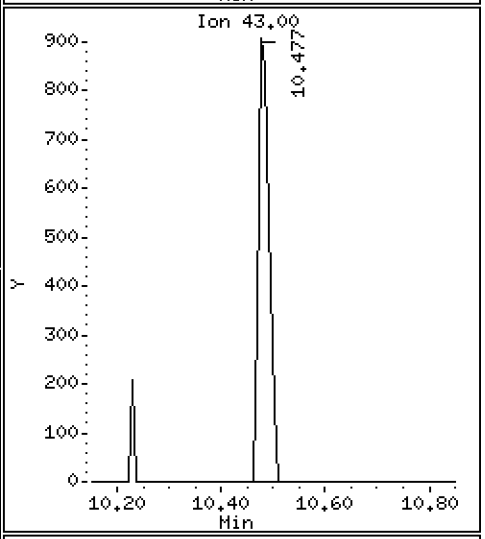
16 N-Nitroso-di-n-propylamine

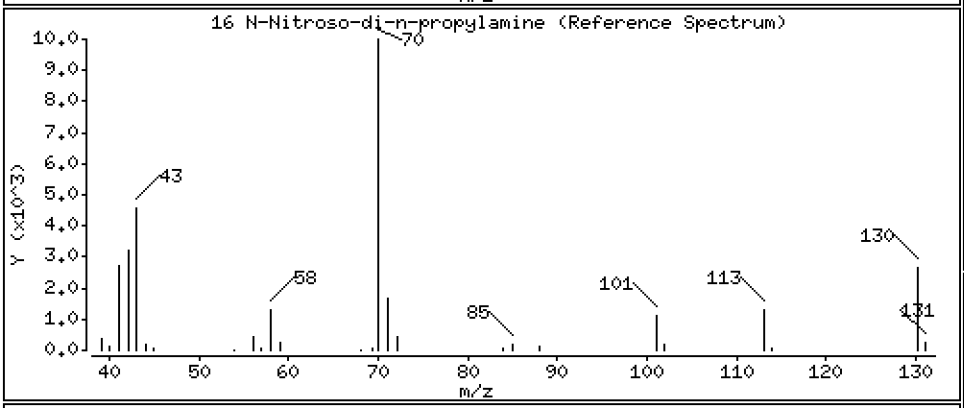
Concentration: 4.893 ug/mL

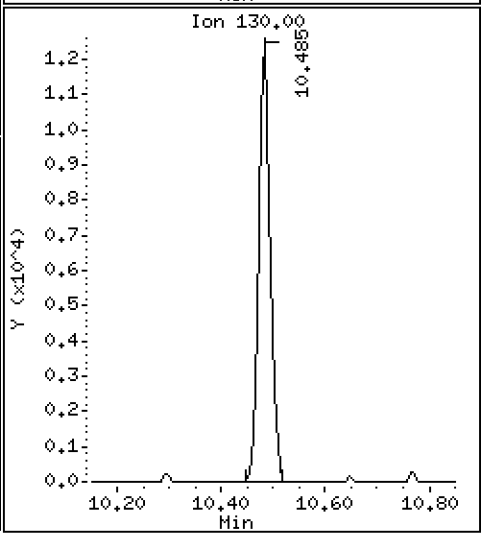


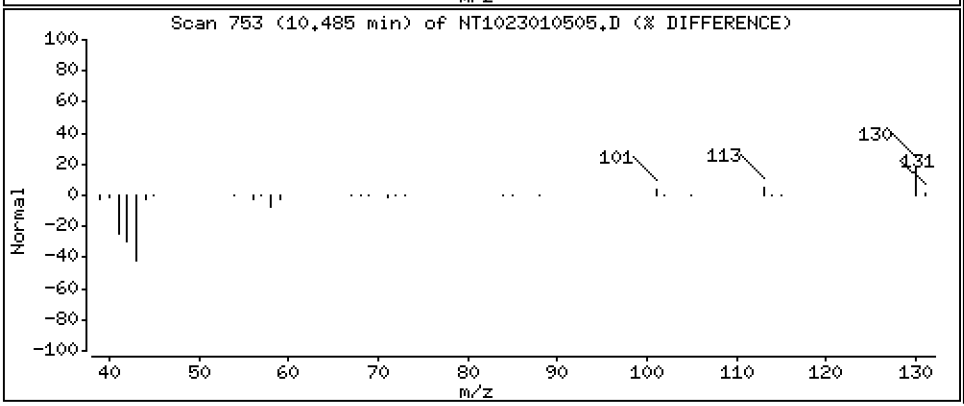












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

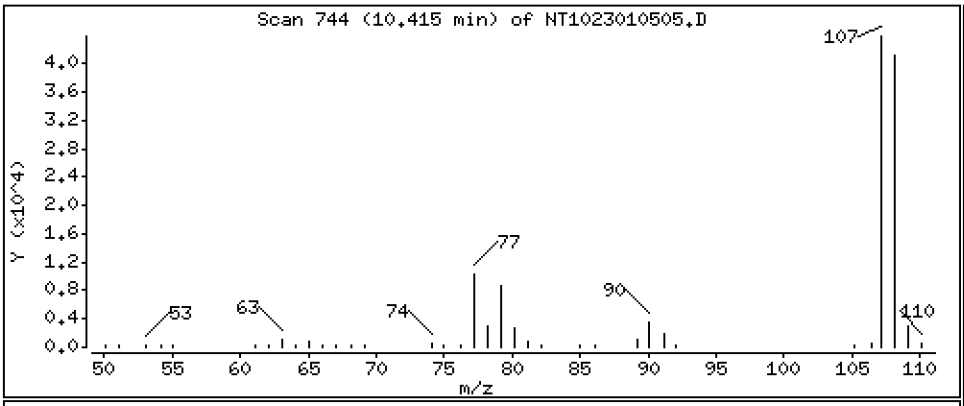
Operator: VTS

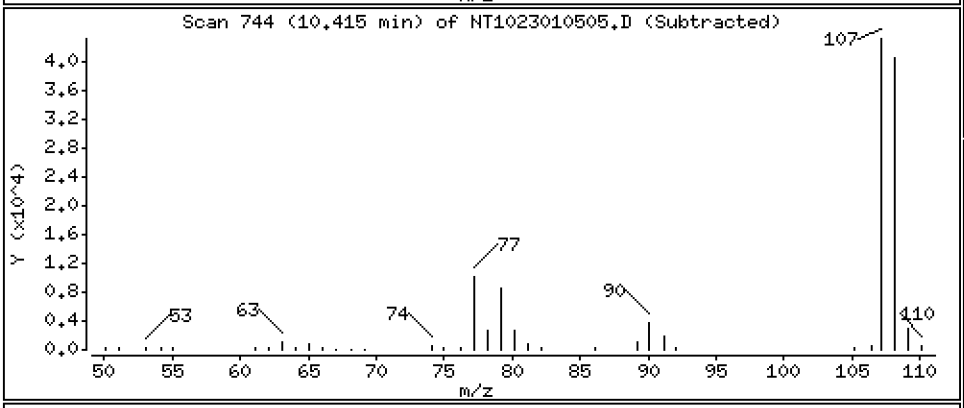
Column phase: ZB-5msi

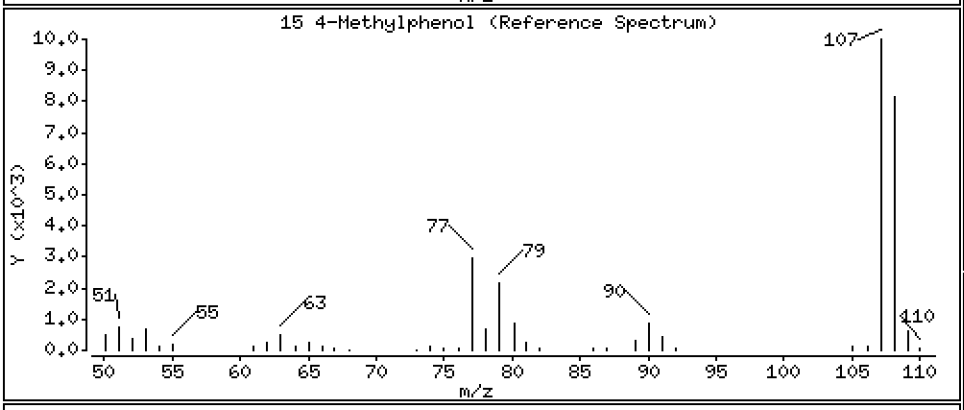
Column diameter: 0.25

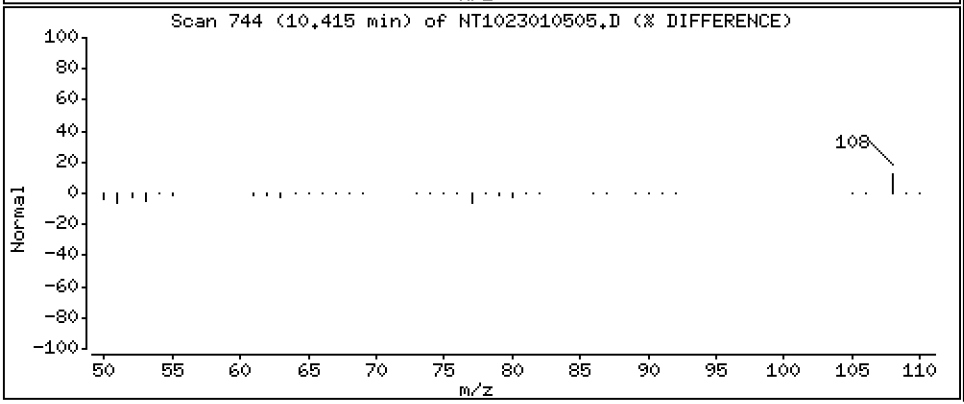
15 4-Methylphenol

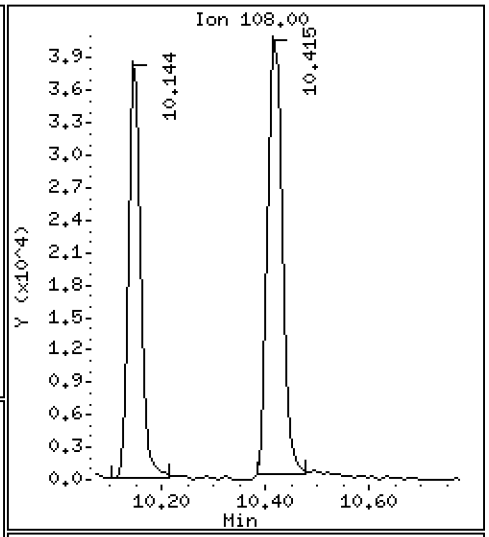
Concentration: 5.646 ug/mL

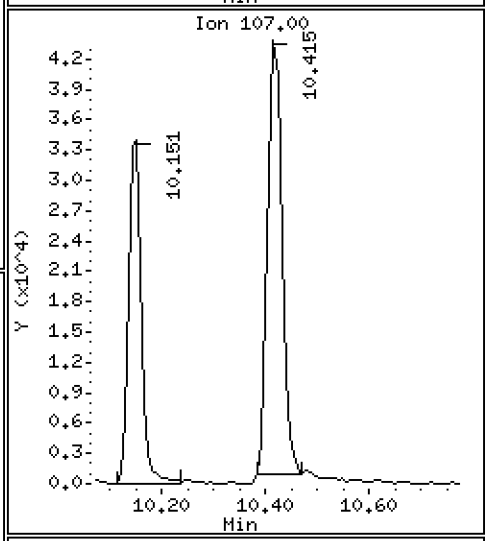


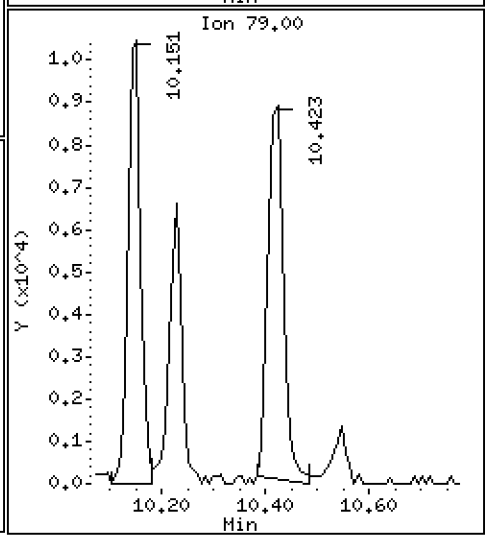












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

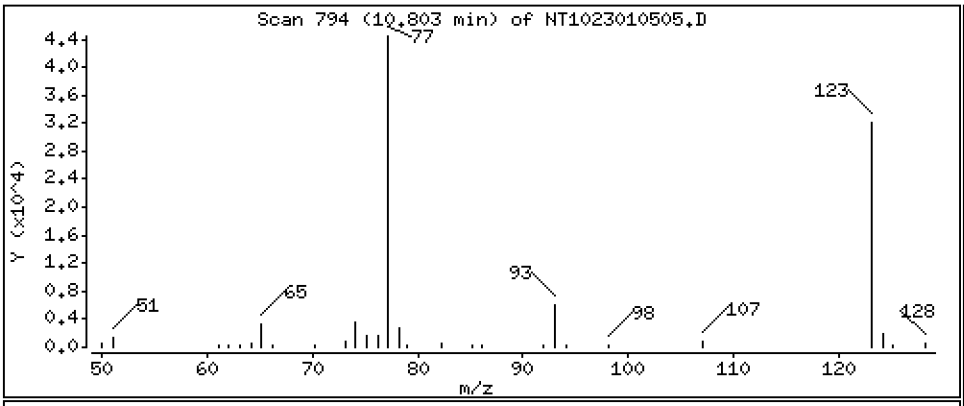
Operator: VTS

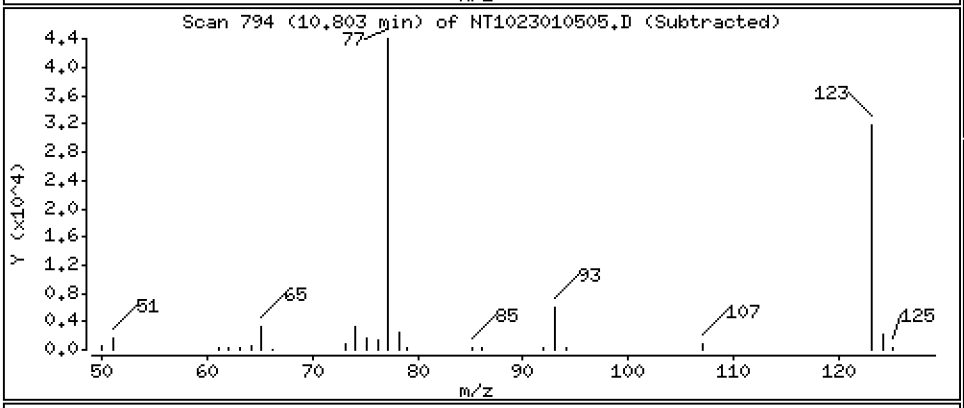
Column phase: ZB-5msi

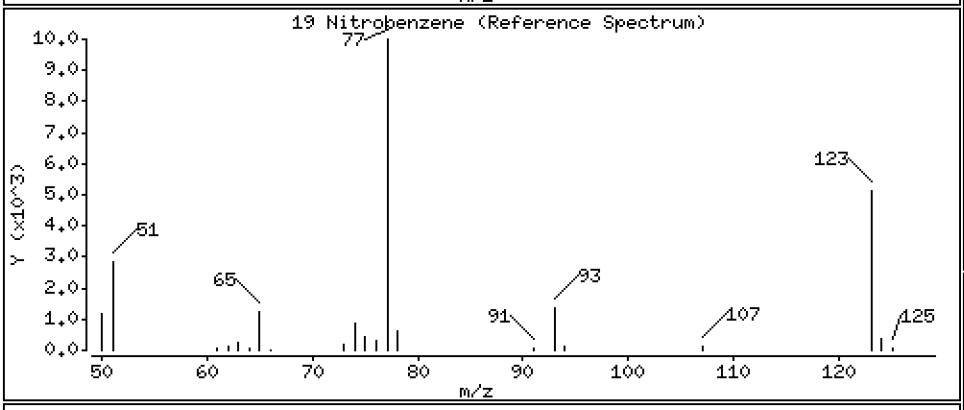
Column diameter: 0.25

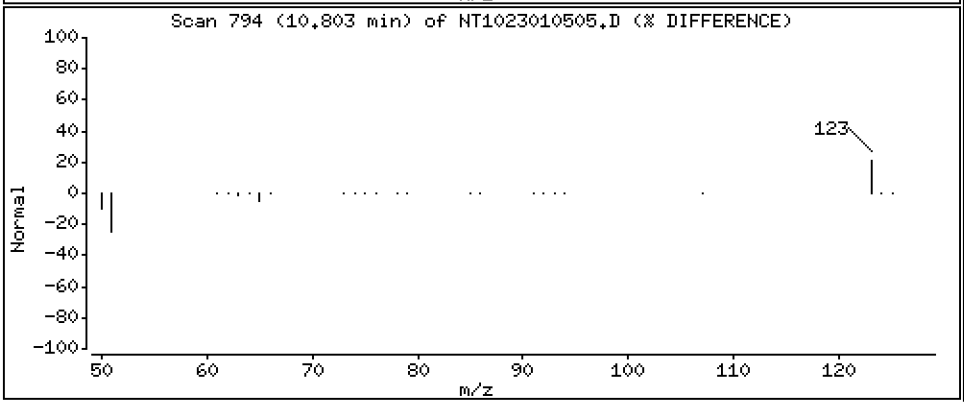
19 Nitrobenzene

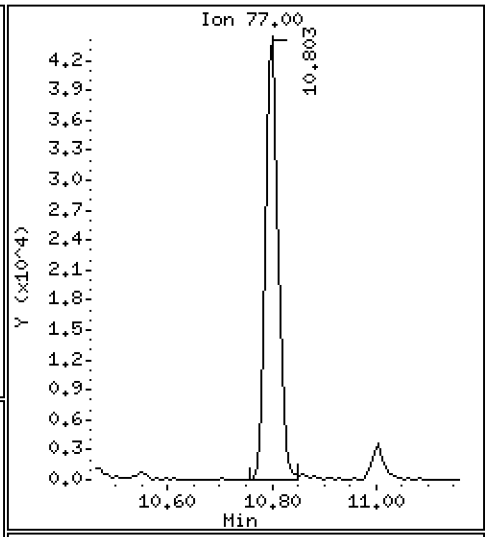
Concentration: 4.837 ug/mL

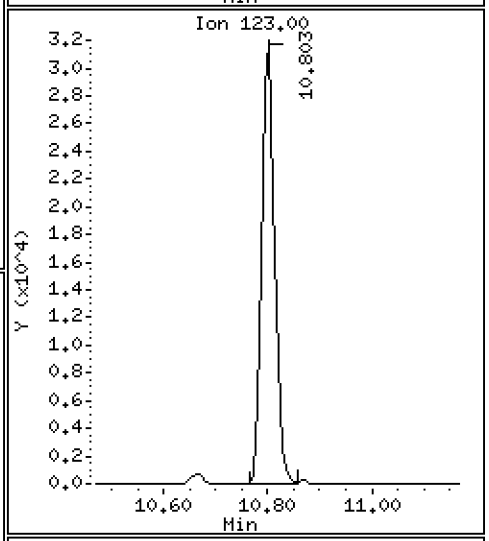


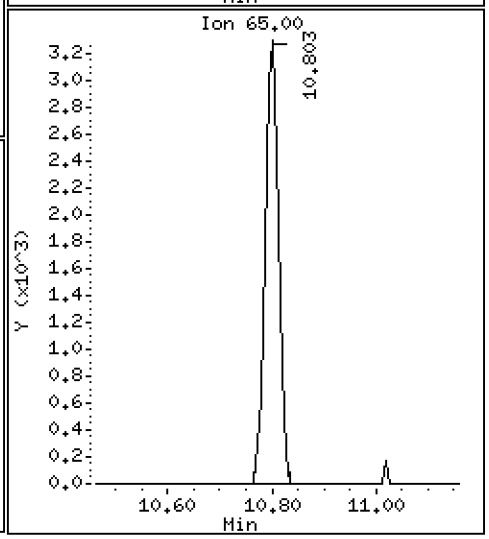












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

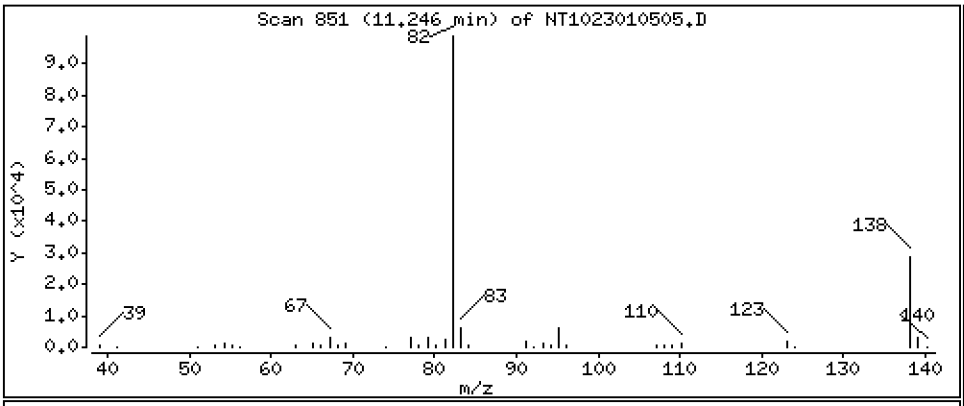
Operator: VTS

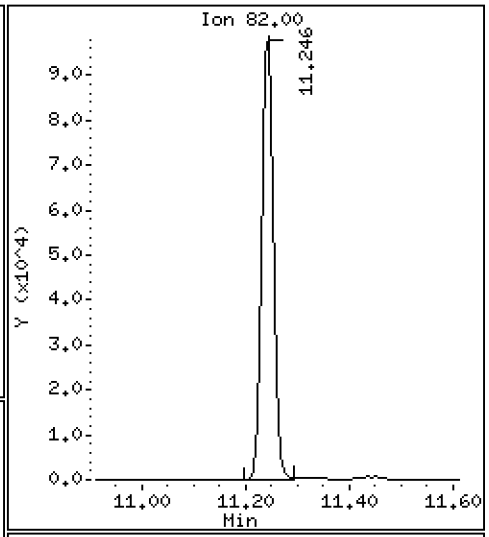
Column phase: ZB-5msi

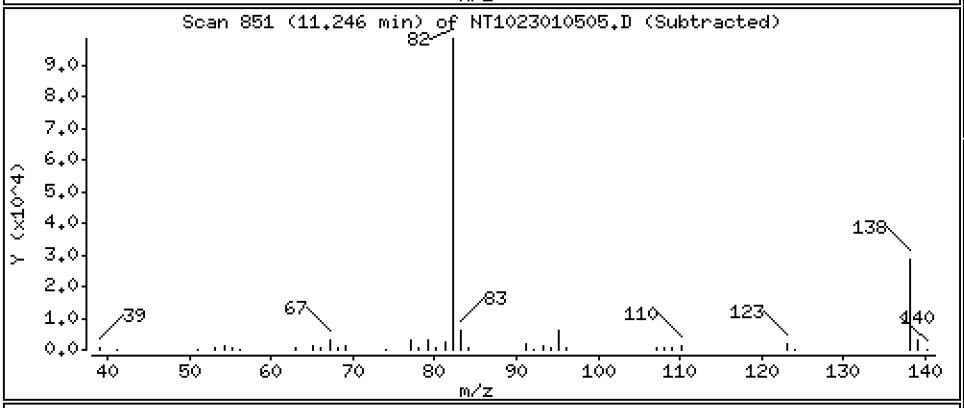
Column diameter: 0.25

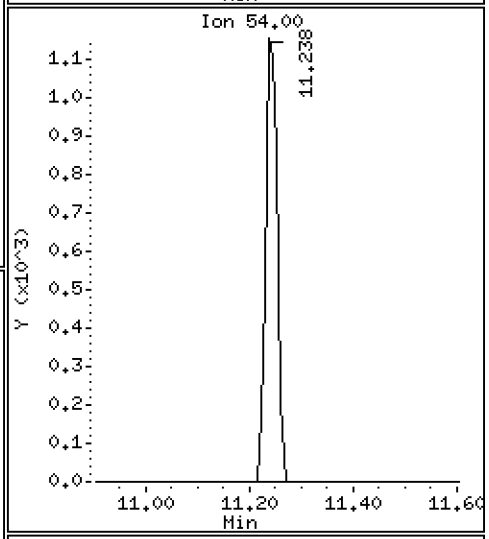
20 Isophorone

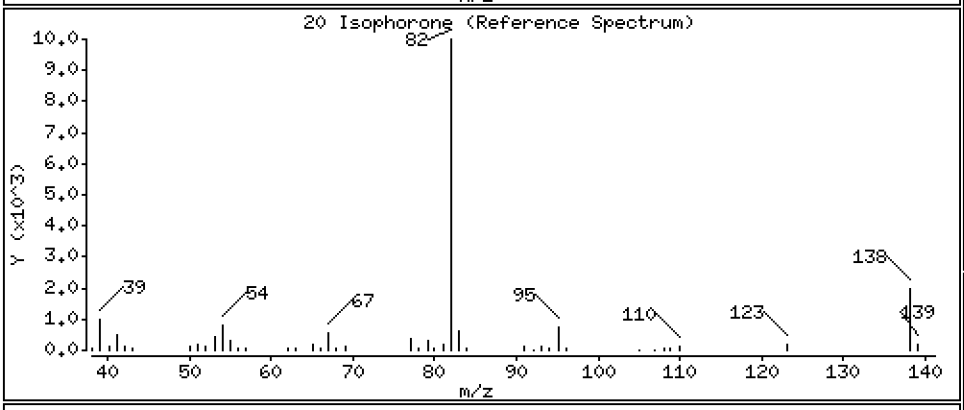
Concentration: 6.586 ug/mL

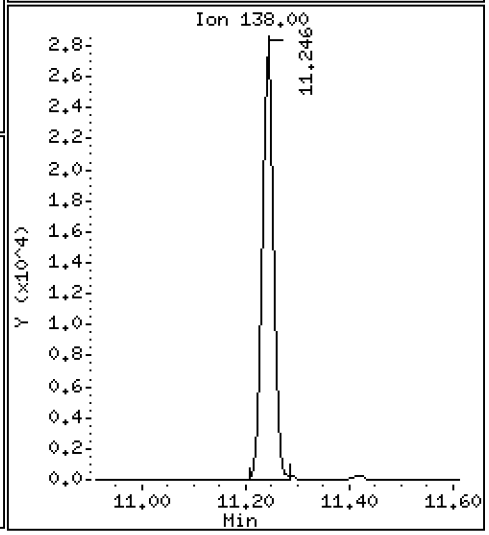


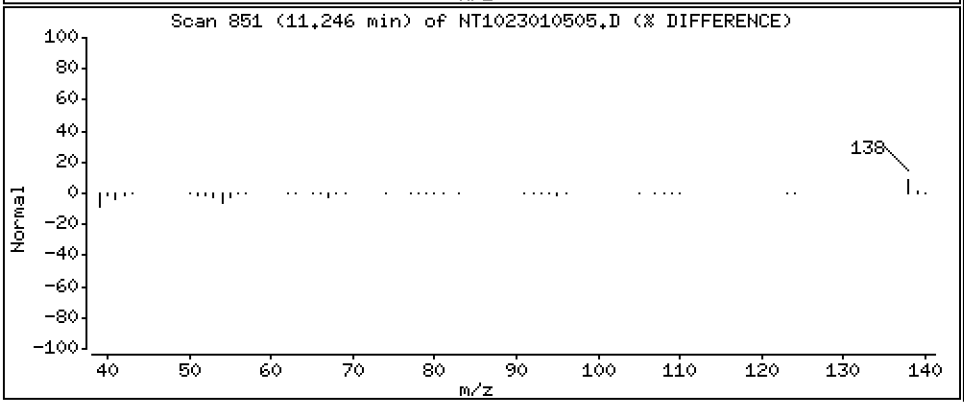












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

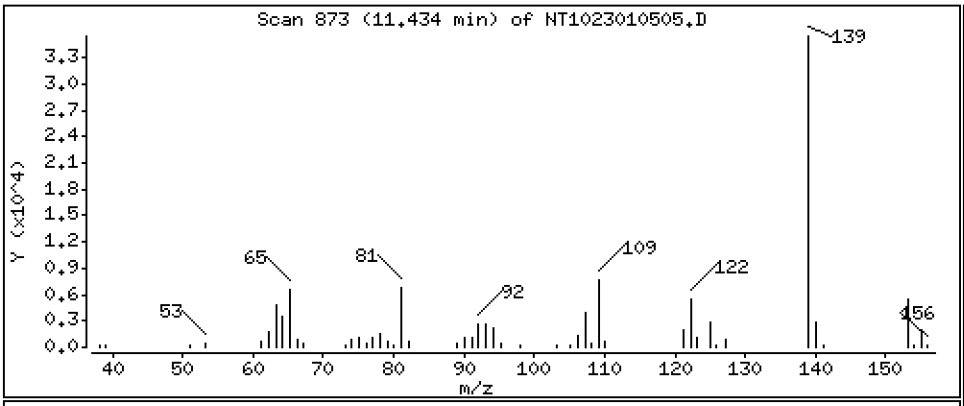
Operator: VTS

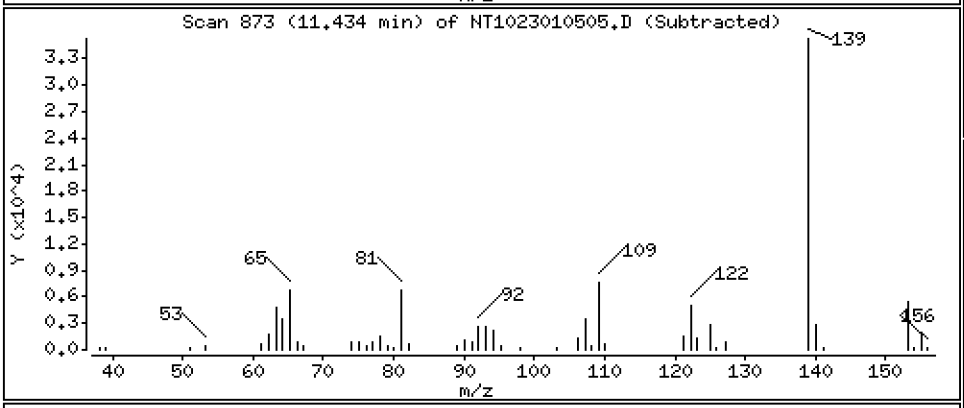
Column phase: ZB-5msi

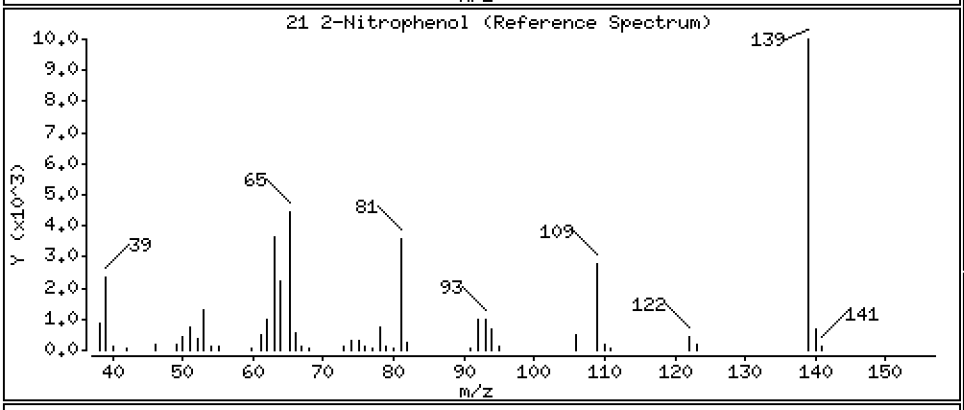
Column diameter: 0.25

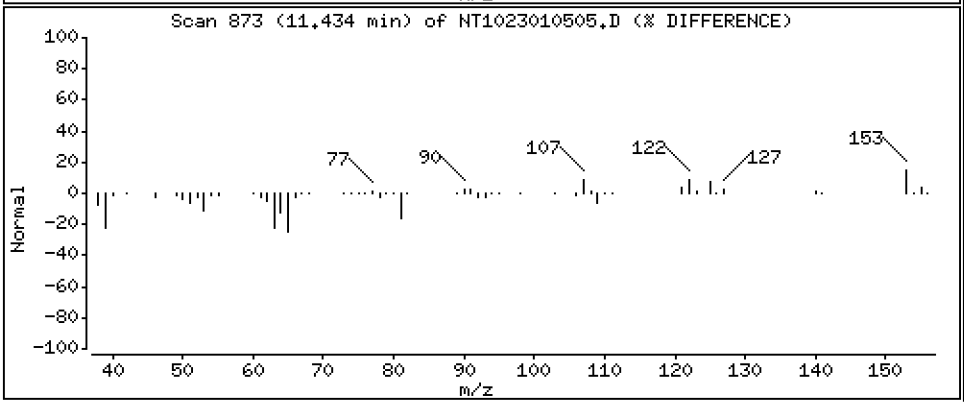
21 2-Nitrophenol

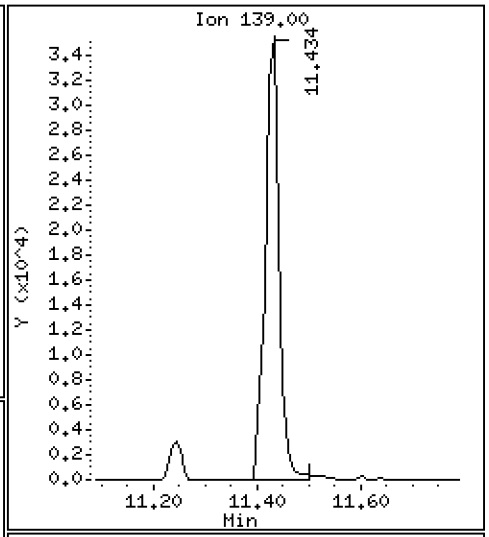
Concentration: 4.721 ug/mL

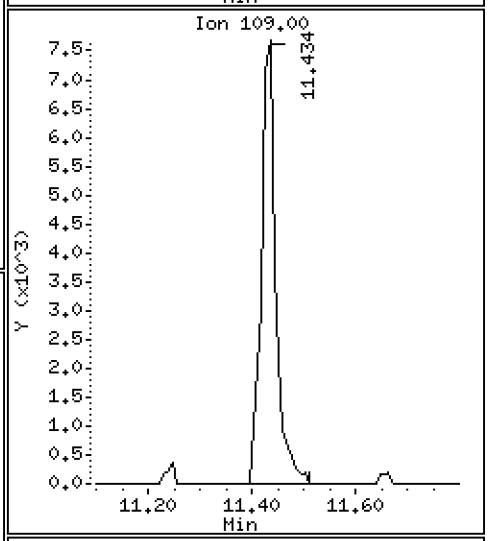


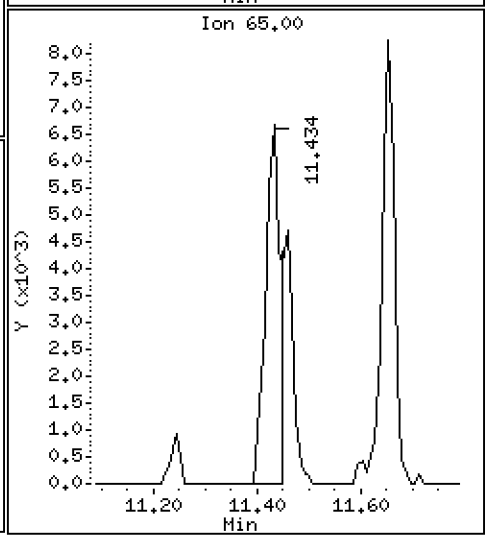












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

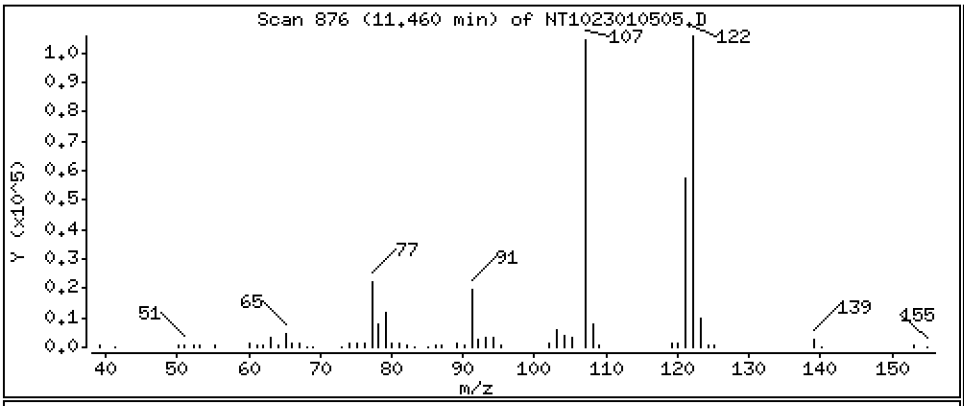
Operator: VTS

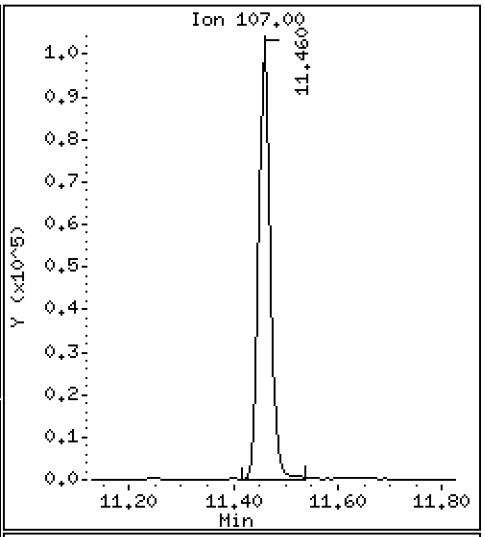
Column phase: ZB-5msi

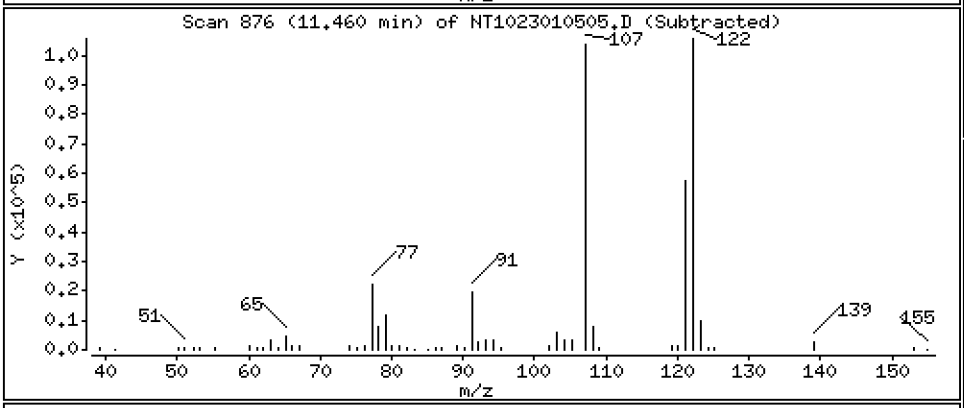
Column diameter: 0.25

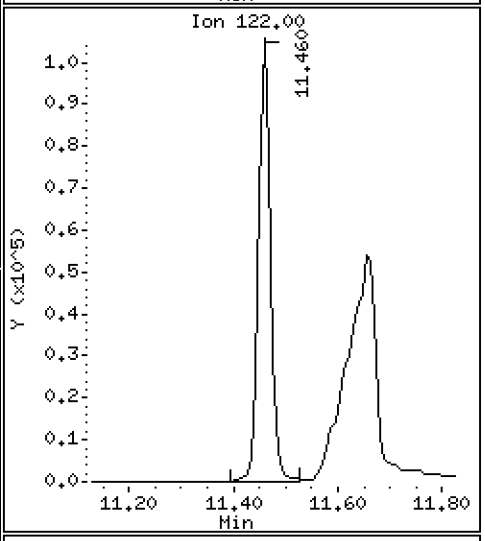
22 2,4-Dimethylphenol

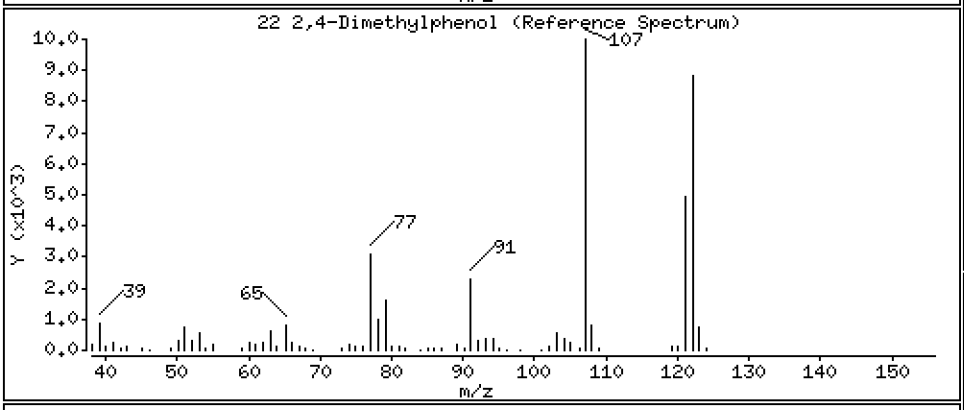
Concentration: 8.030 ug/mL

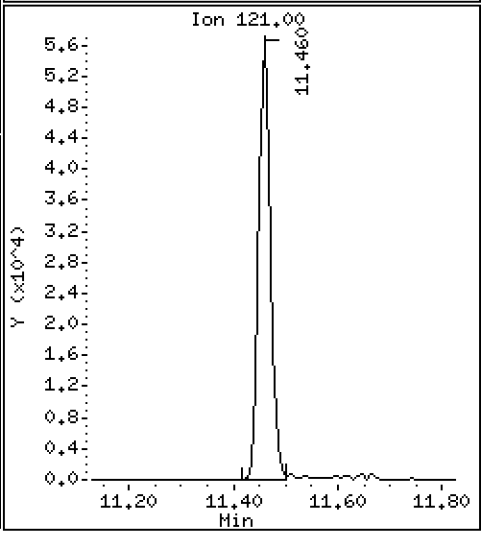


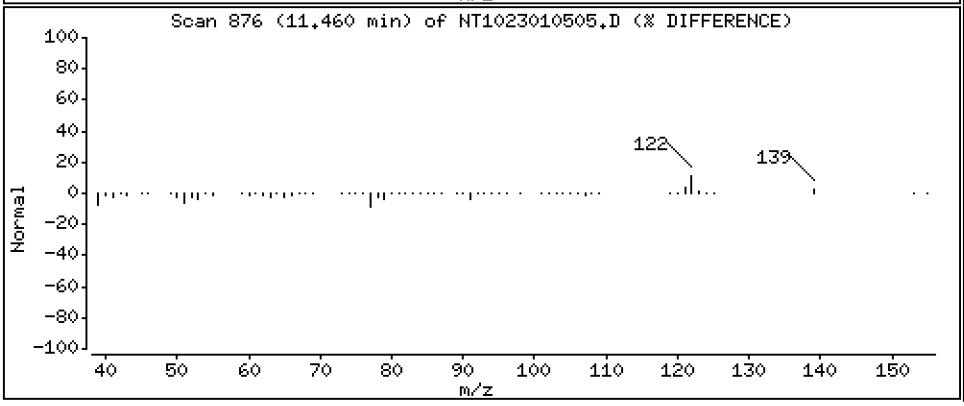












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

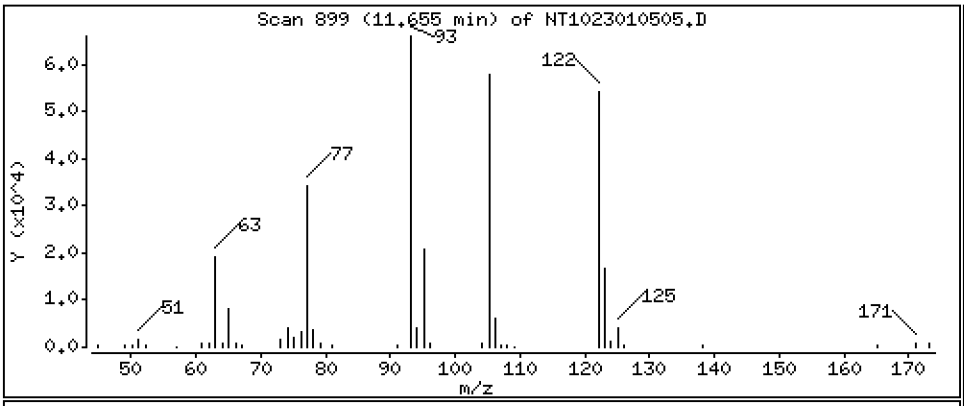
Operator: VTS

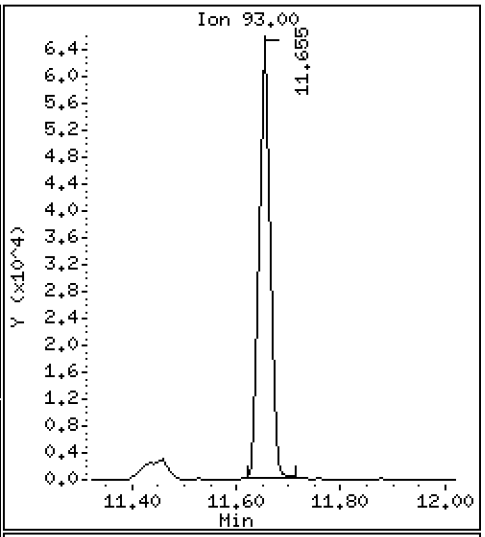
Column phase: ZB-5msi

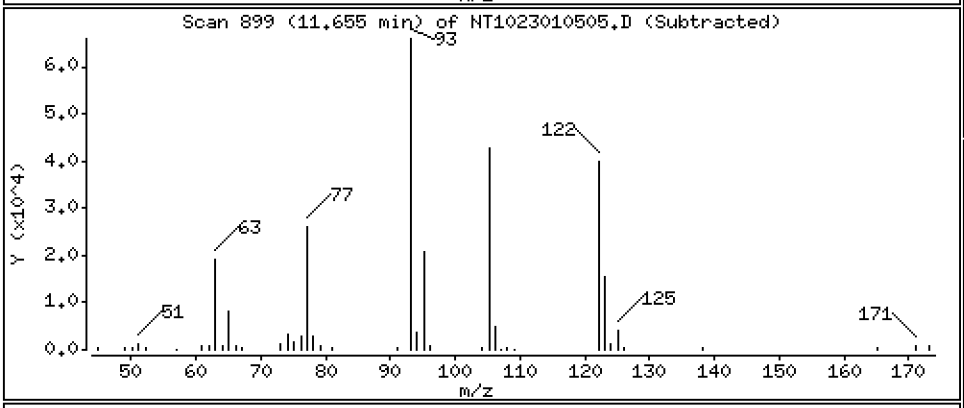
Column diameter: 0.25

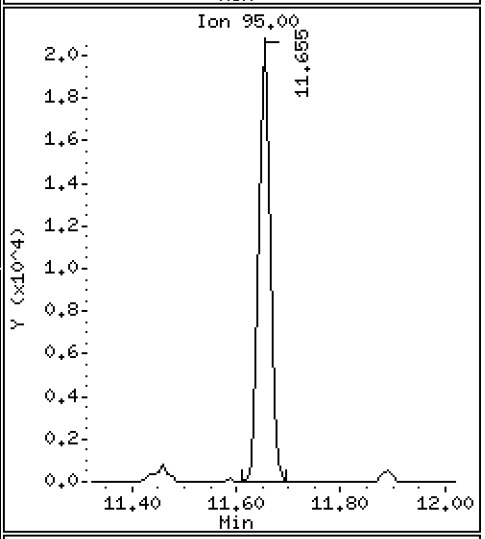
23 Bis(2-Chloroethoxy)methane

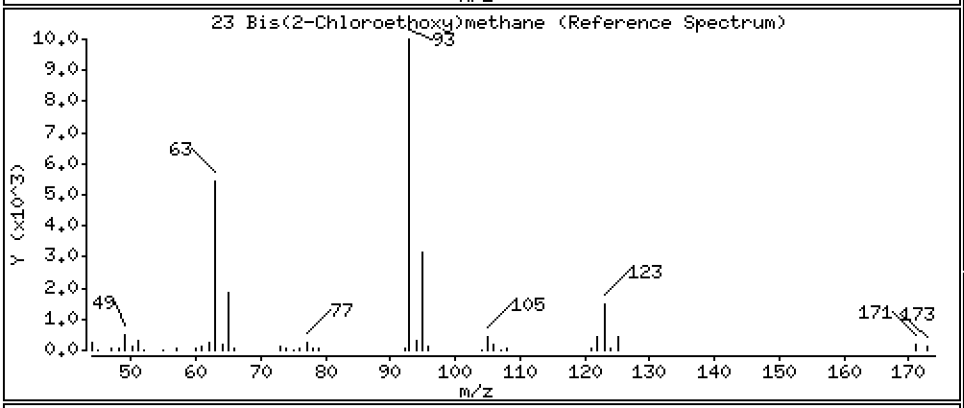
Concentration: 5.590 ug/mL

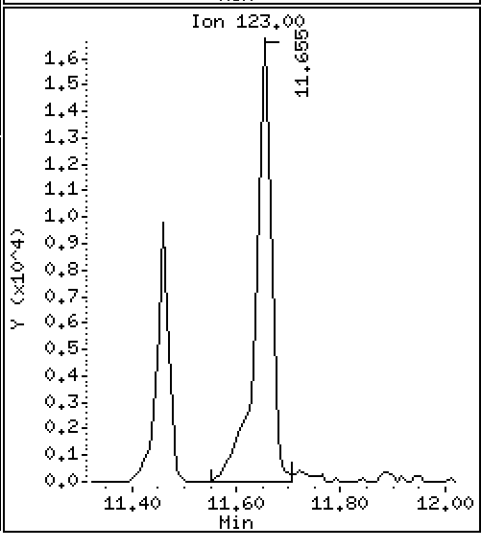


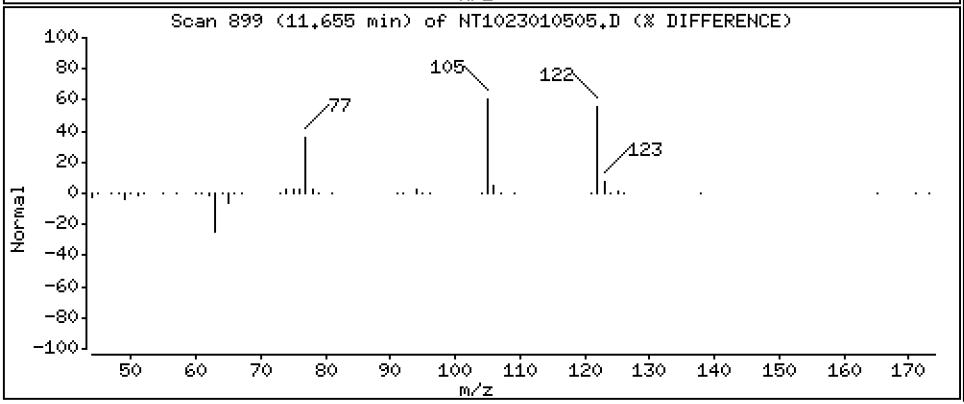












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

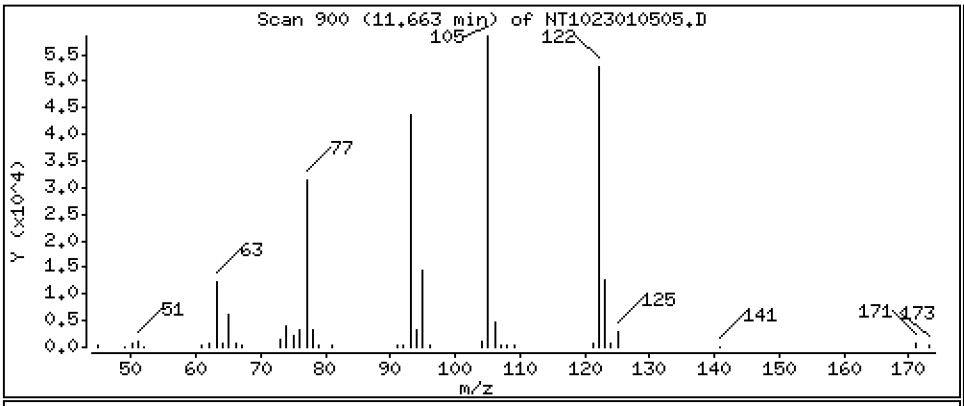
Operator: VTS

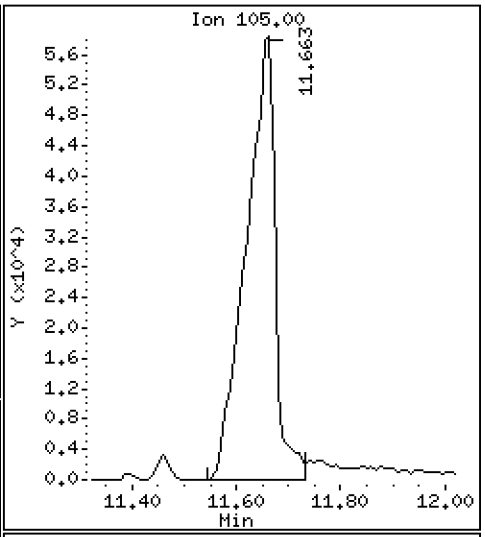
Column phase: ZB-5msi

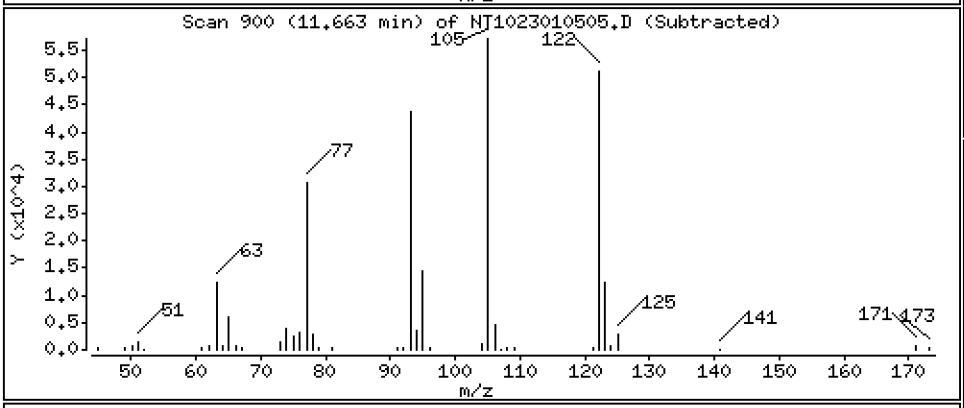
Column diameter: 0.25

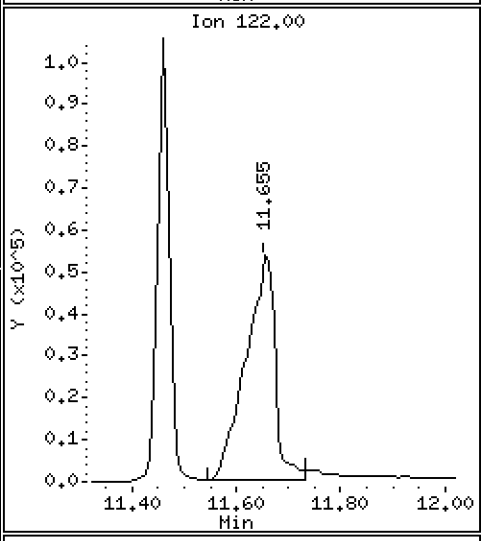
24 Benzoic acid

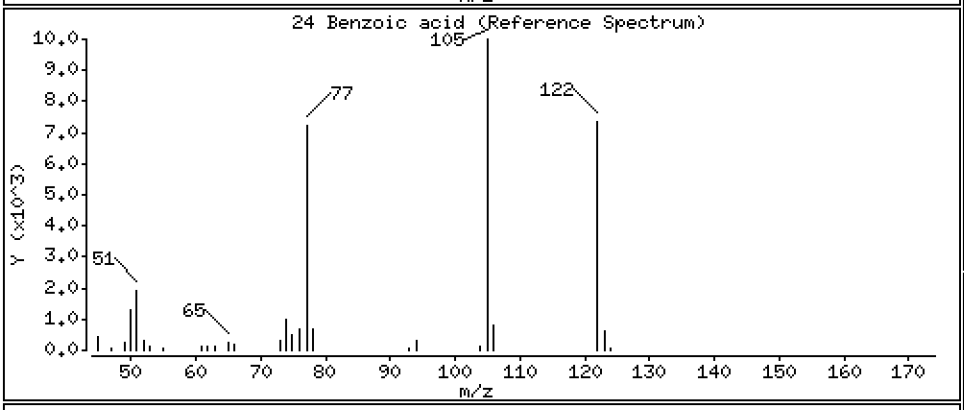
Concentration: 25.68 ug/mL

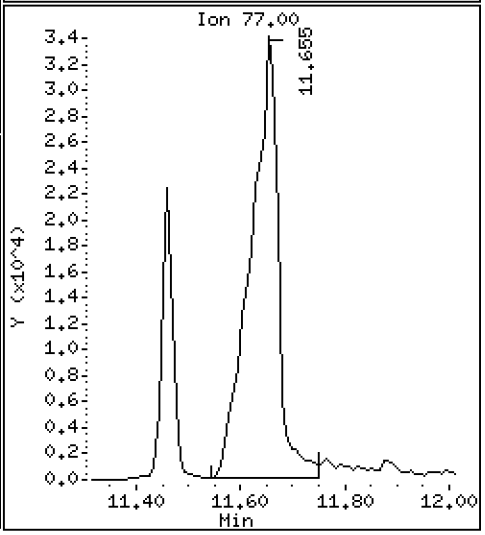


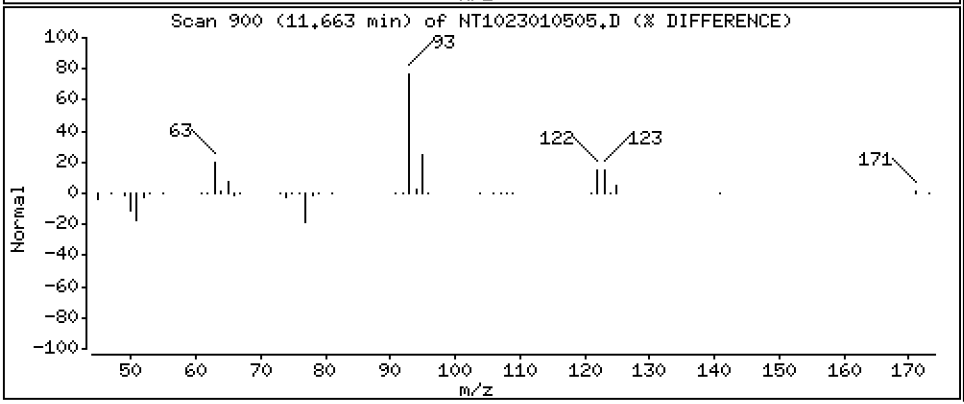












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

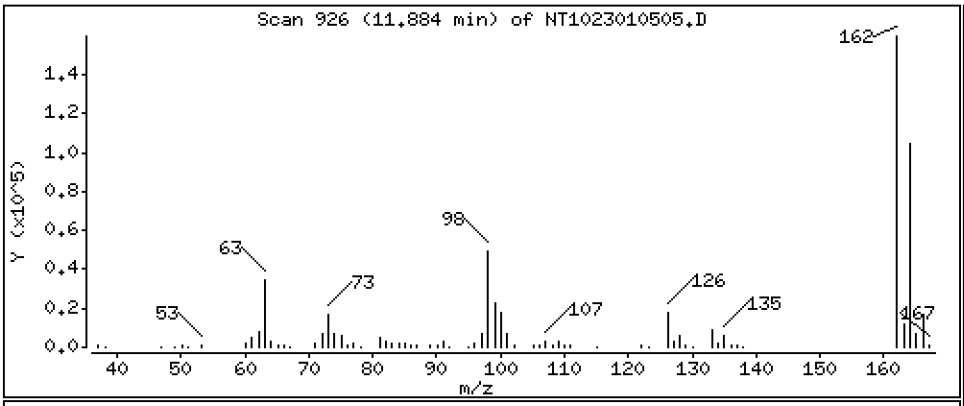
Operator: VTS

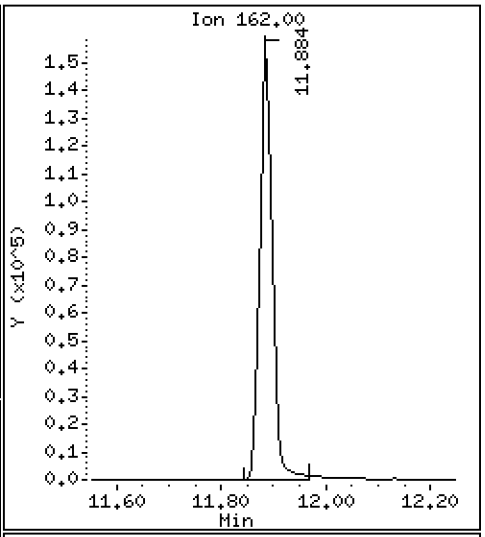
Column phase: ZB-5msi

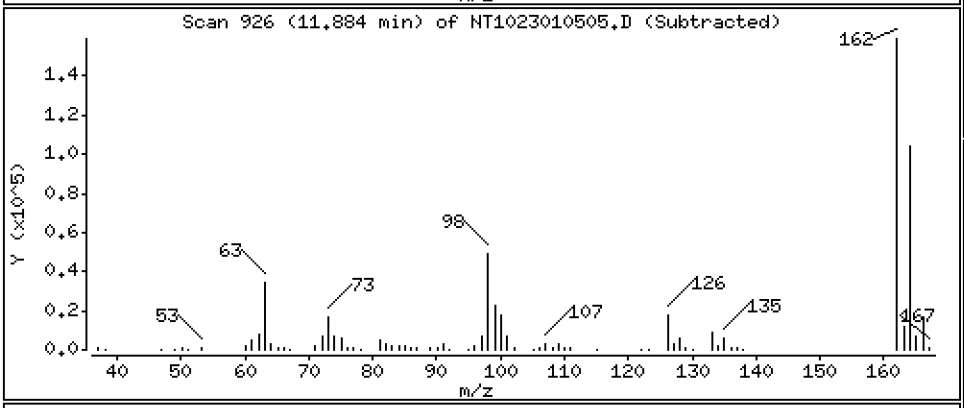
Column diameter: 0.25

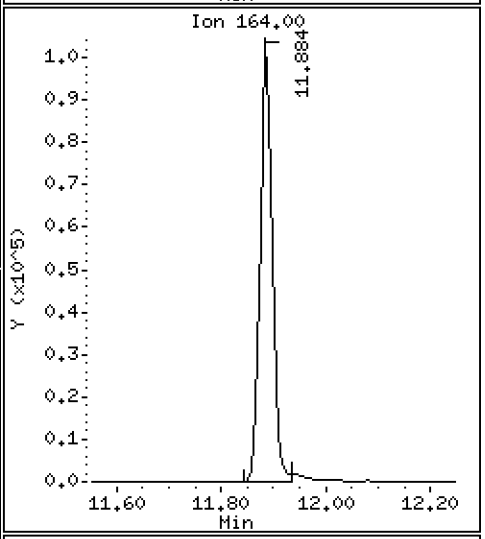
25 2,4-Dichlorophenol

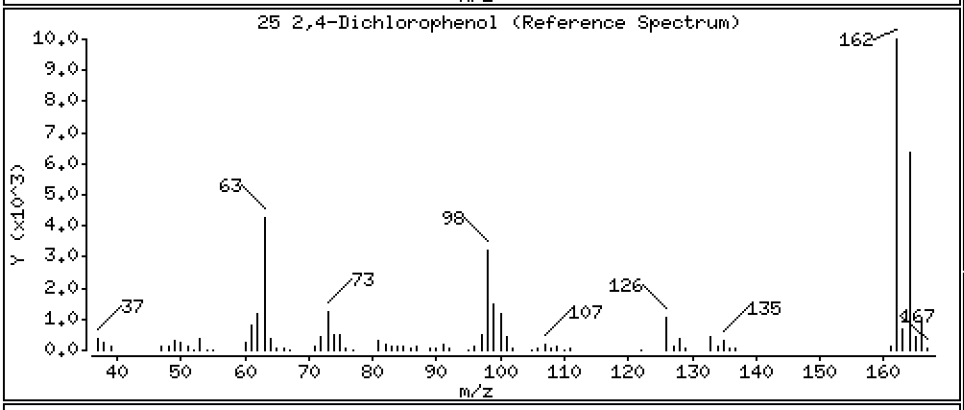
Concentration: 16.42 ug/mL

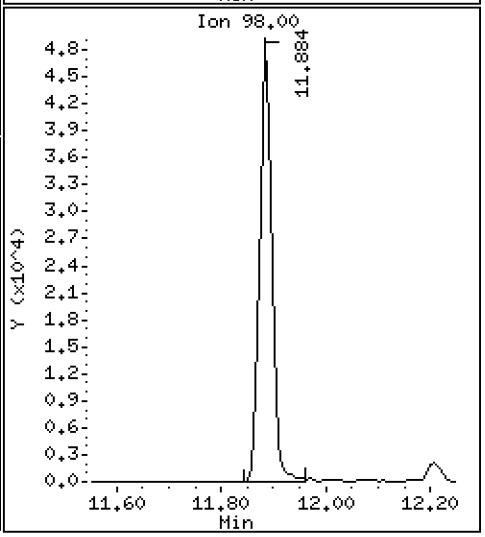


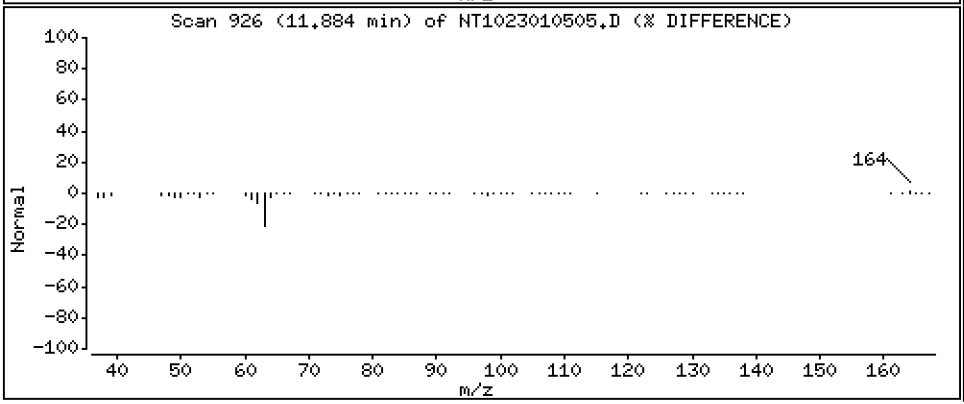












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

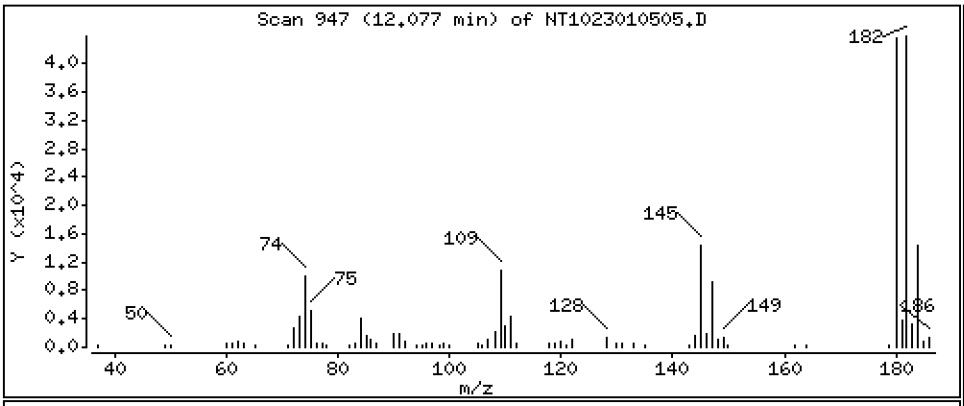
Operator: VTS

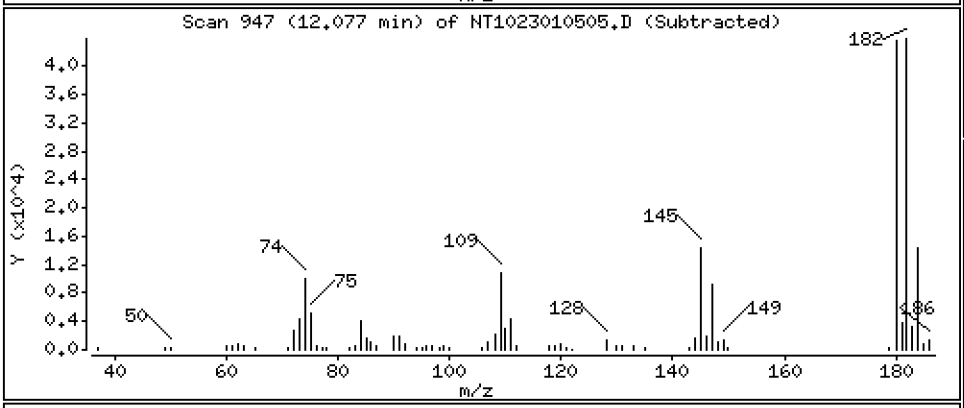
Column phase: ZB-5msi

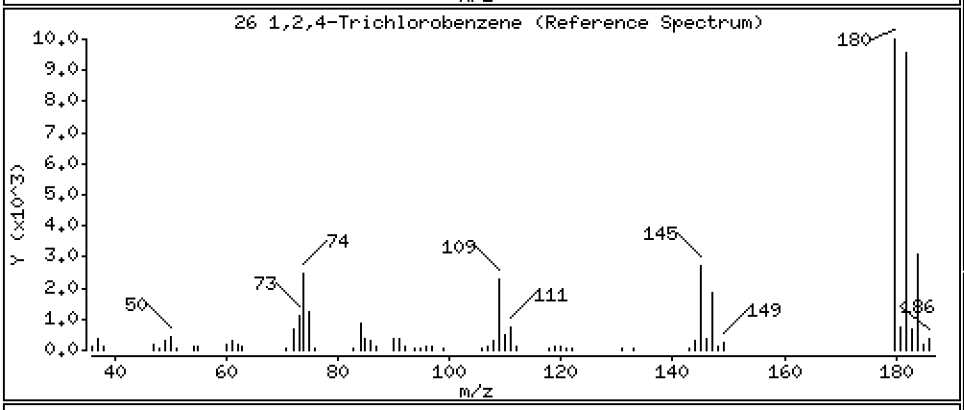
Column diameter: 0.25

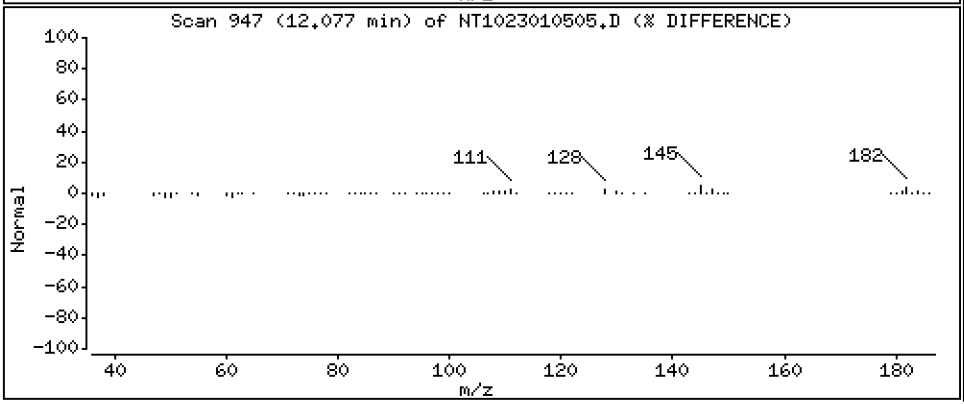
26 1,2,4-Trichlorobenzene

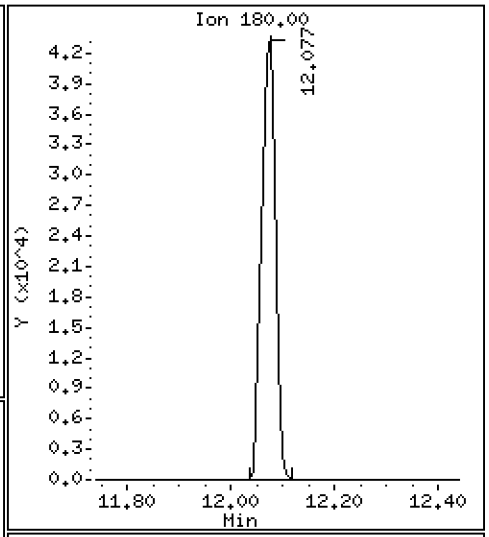
Concentration: 4.749 ug/mL

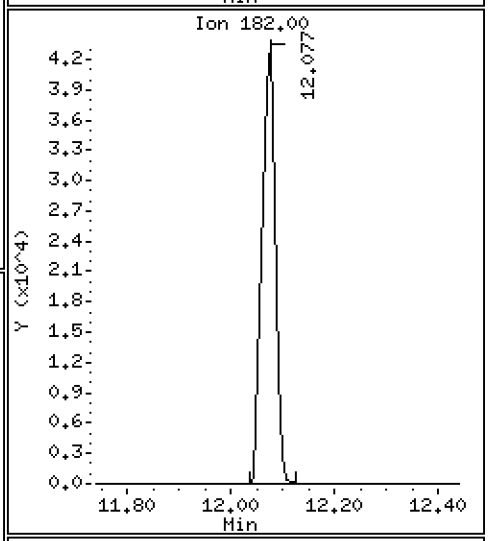


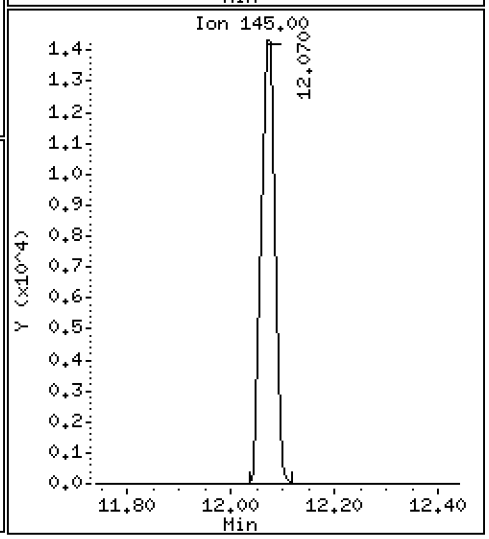












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

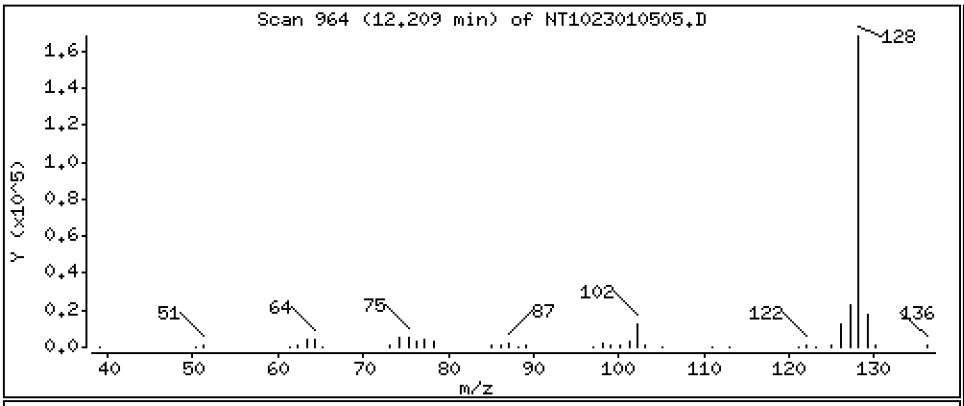
Operator: VTS

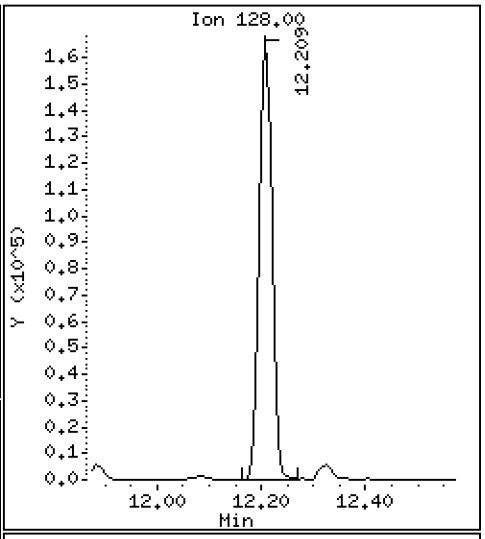
Column phase: ZB-5msi

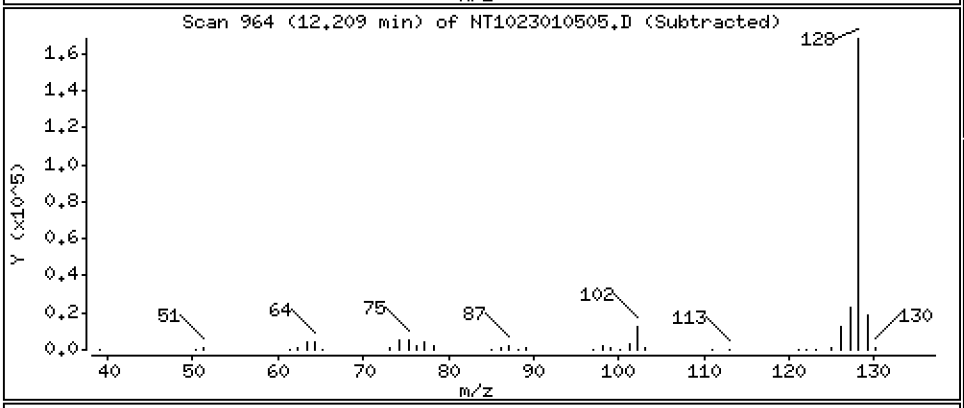
Column diameter: 0.25

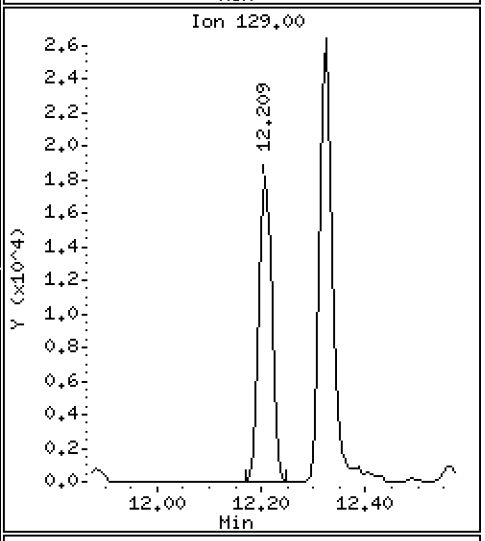
28 Naphthalene

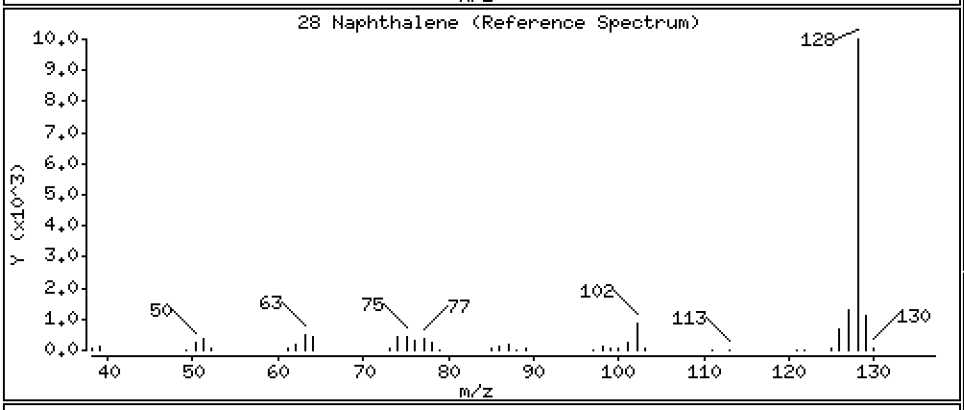
Concentration: 4.794 ug/mL

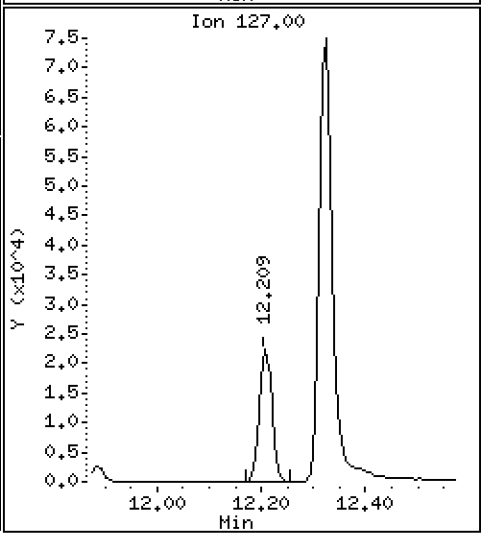


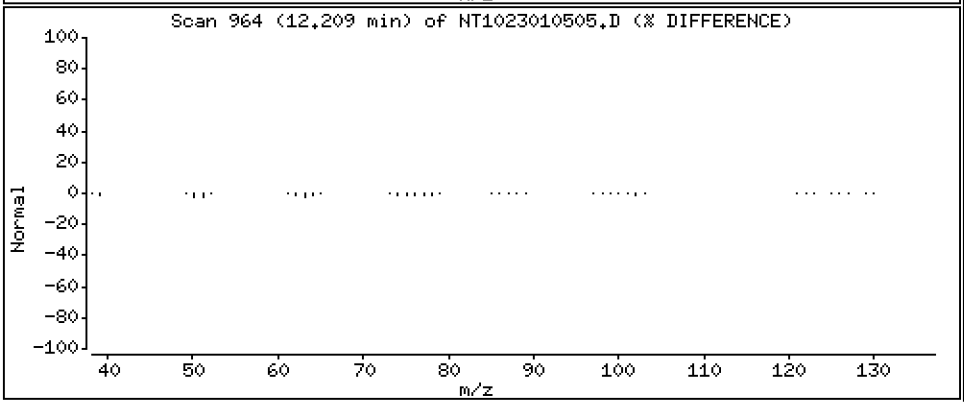












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

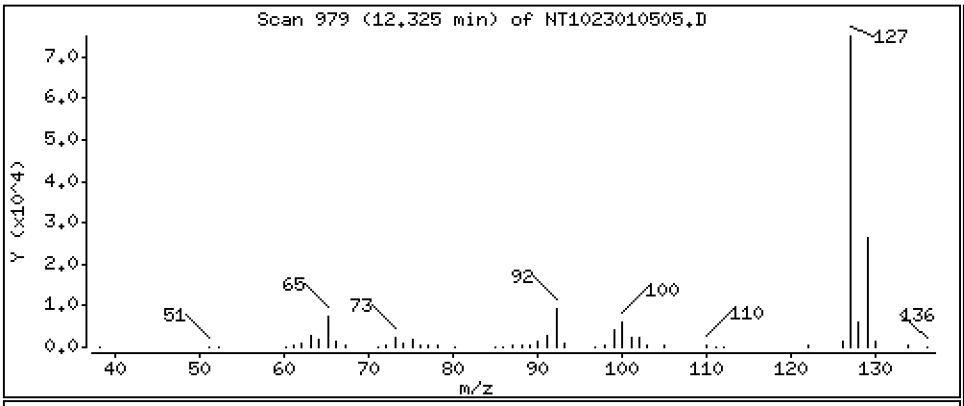
Operator: VTS

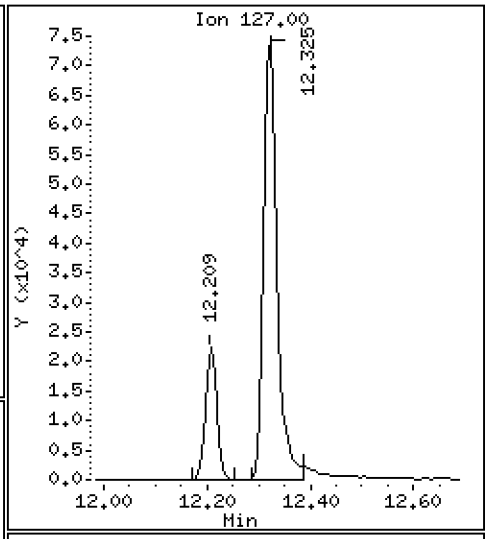
Column phase: ZB-5msi

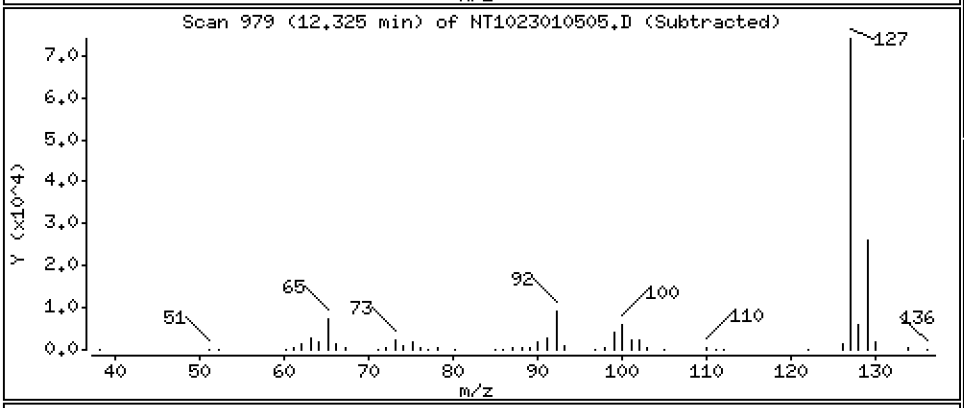
Column diameter: 0.25

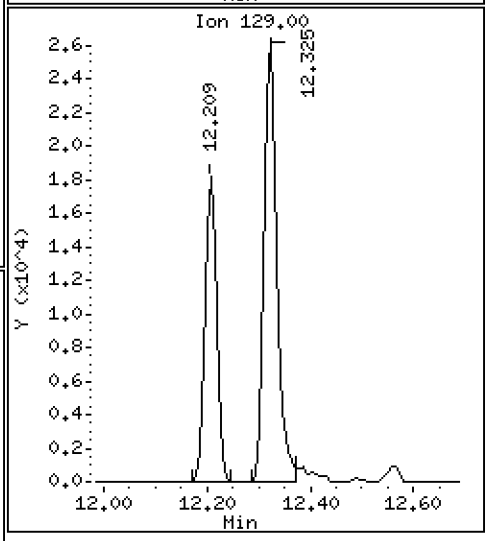
29 4-Chloroaniline

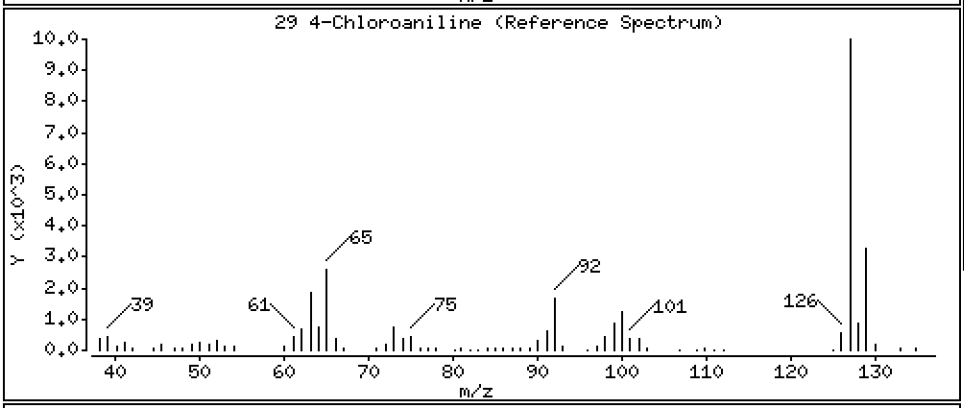
Concentration: 6.227 ug/mL

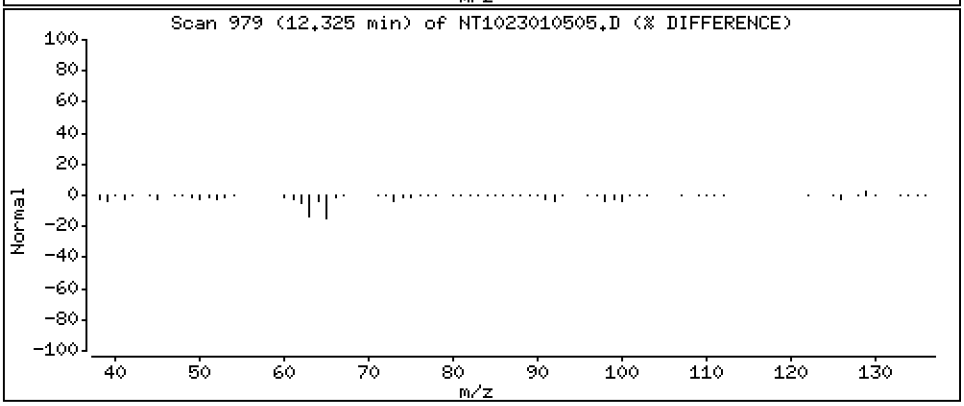












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

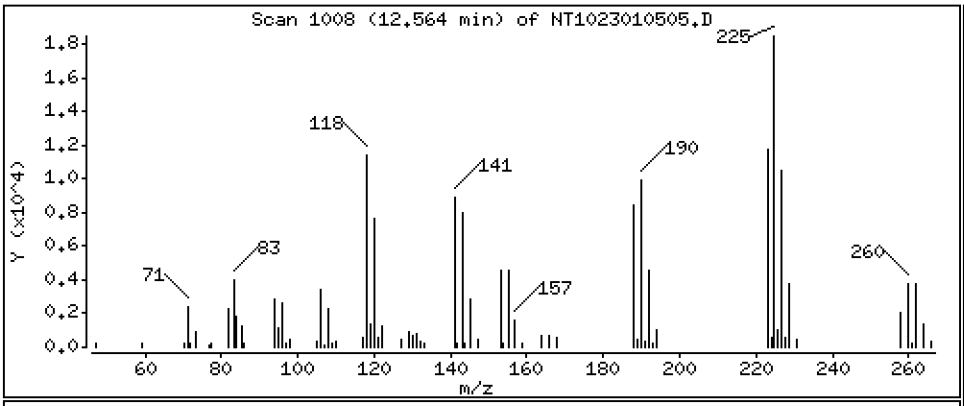
Operator: VTS

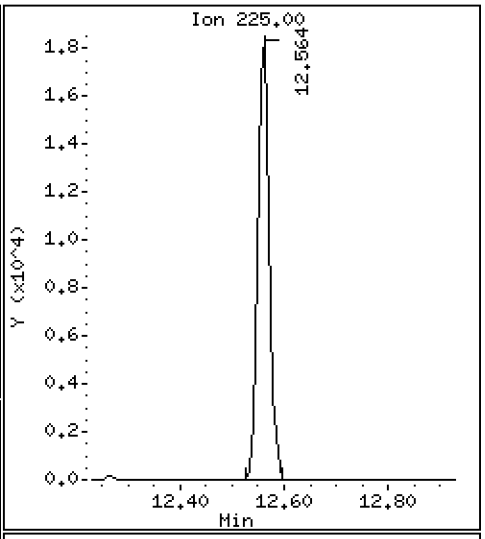
Column phase: ZB-5msi

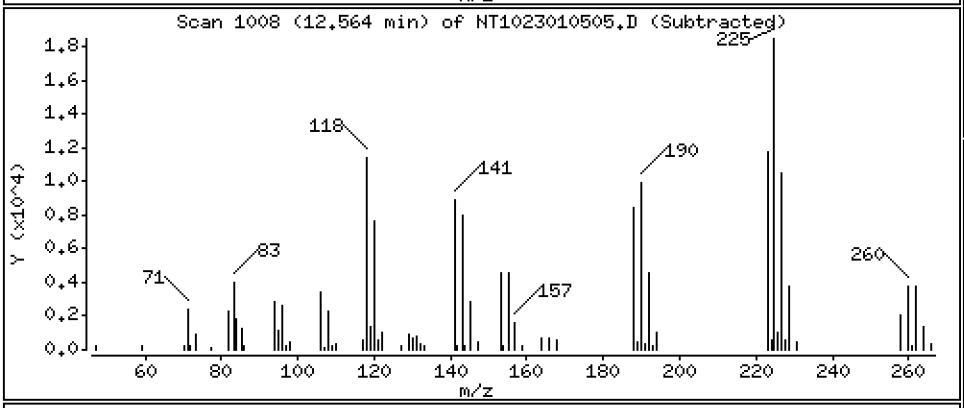
Column diameter: 0.25

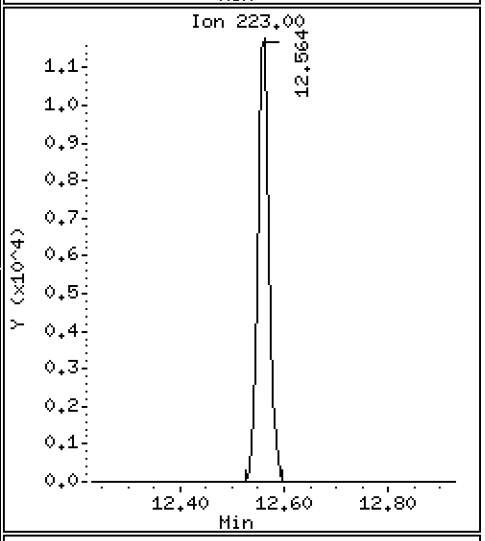
30 Hexachlorobutadiene

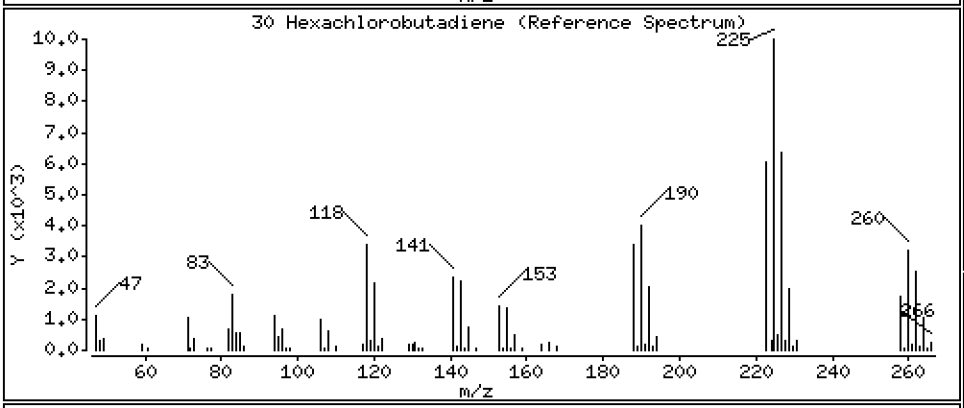
Concentration: 4.742 ug/mL

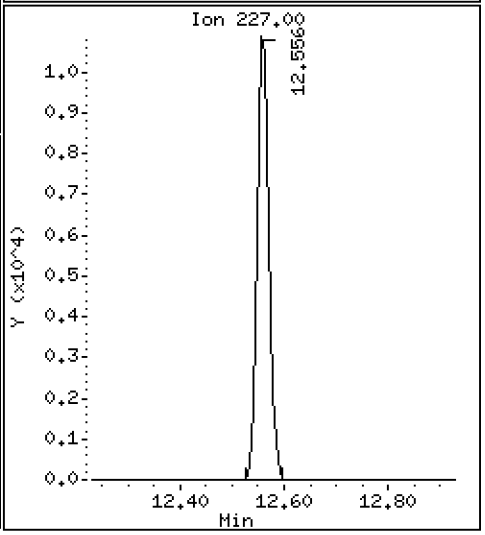


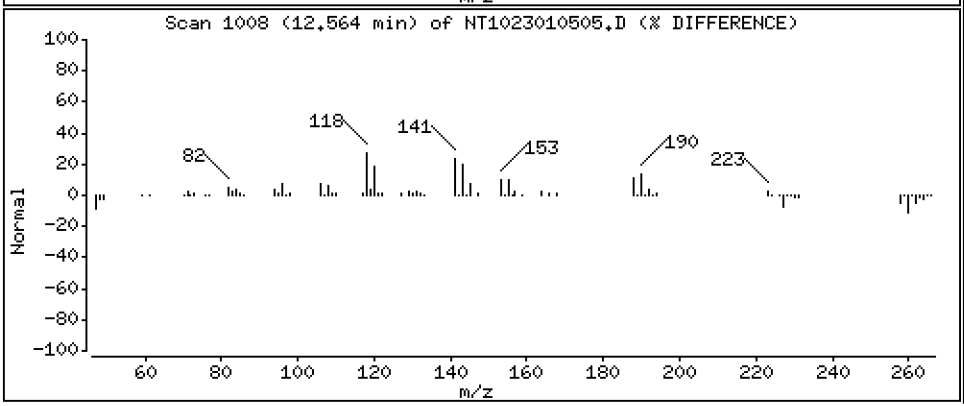












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

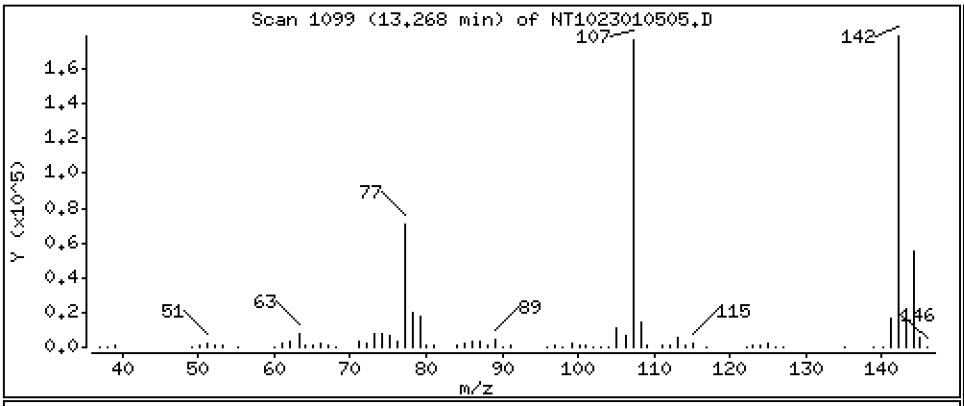
Operator: VTS

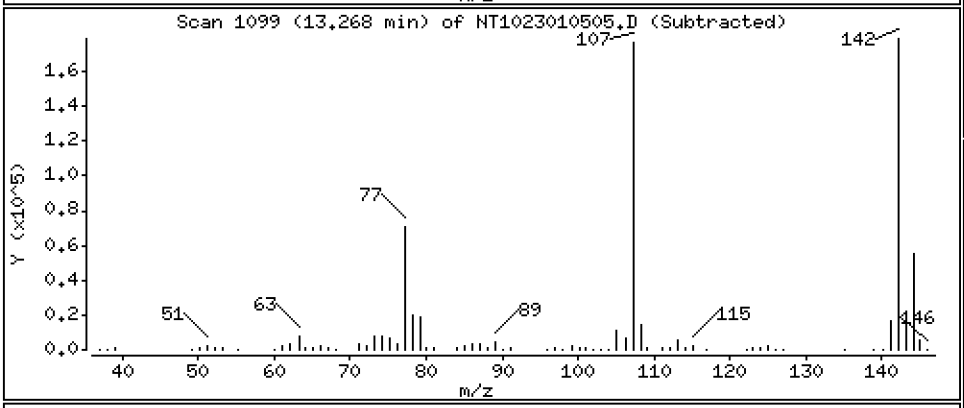
Column phase: ZB-5msi

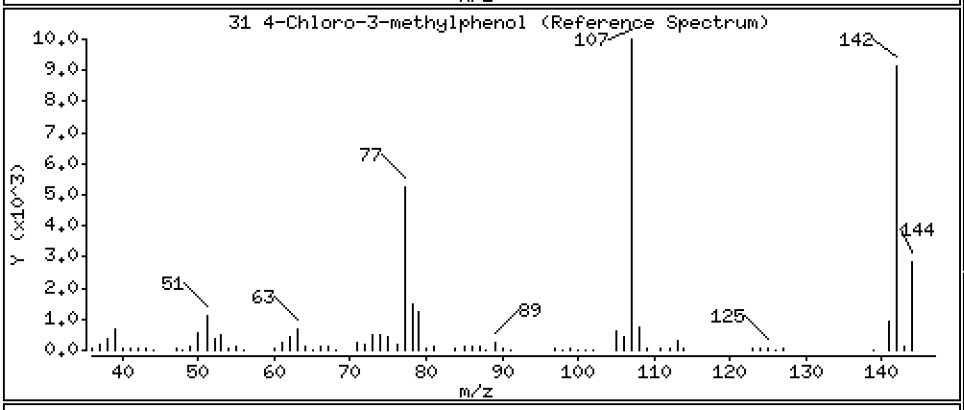
Column diameter: 0.25

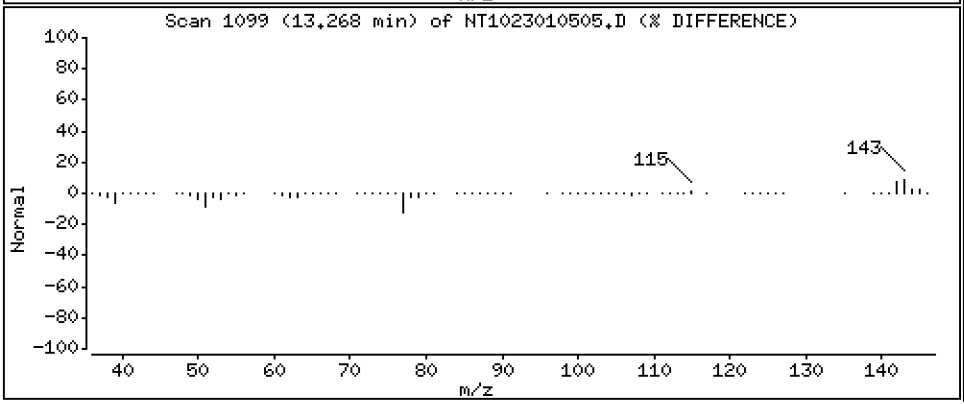
31 4-Chloro-3-methylphenol

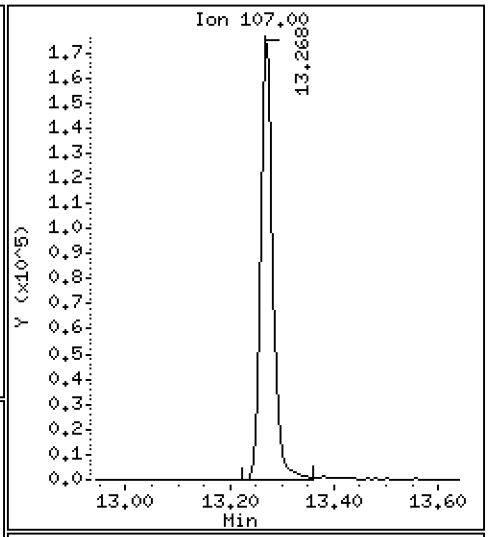
Concentration: 16.47 ug/mL

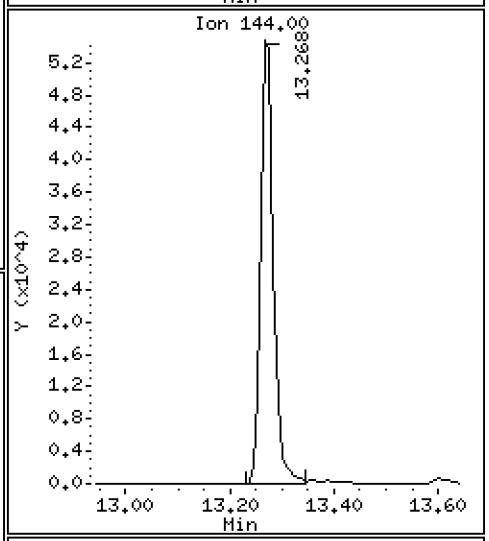


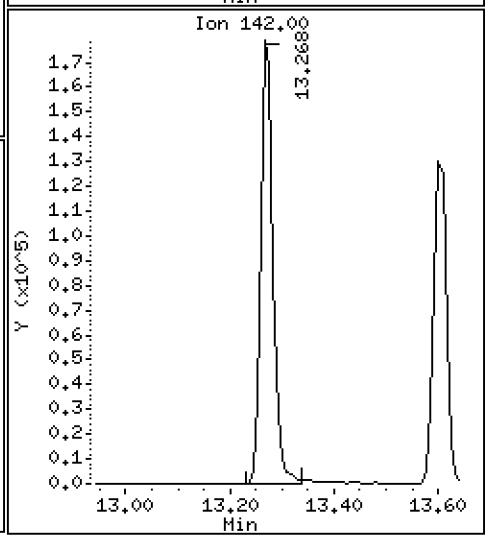












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

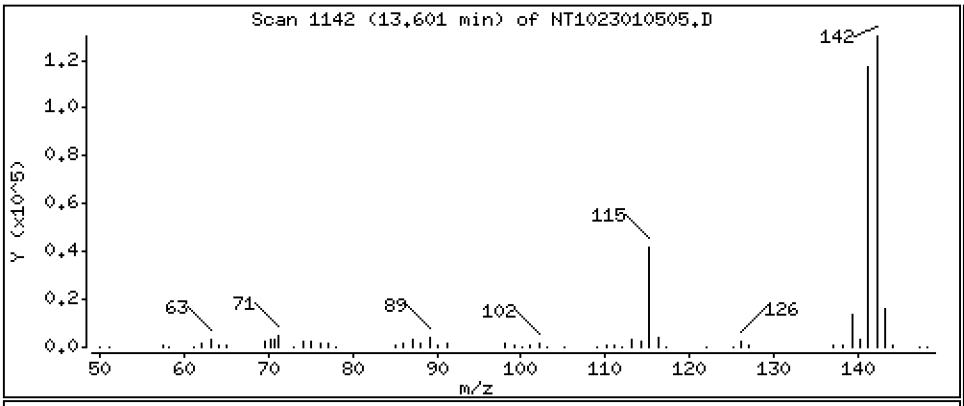
Operator: VTS

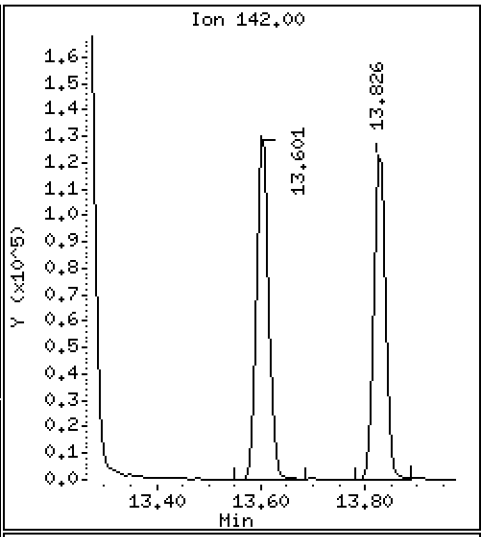
Column phase: ZB-5msi

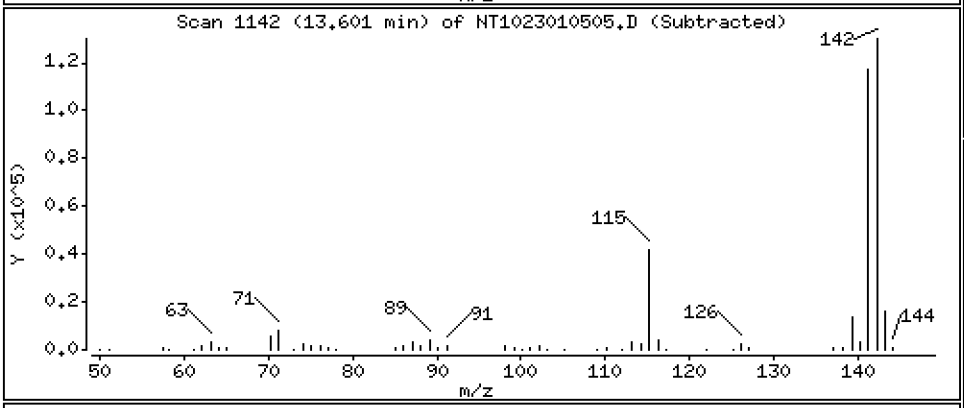
Column diameter: 0.25

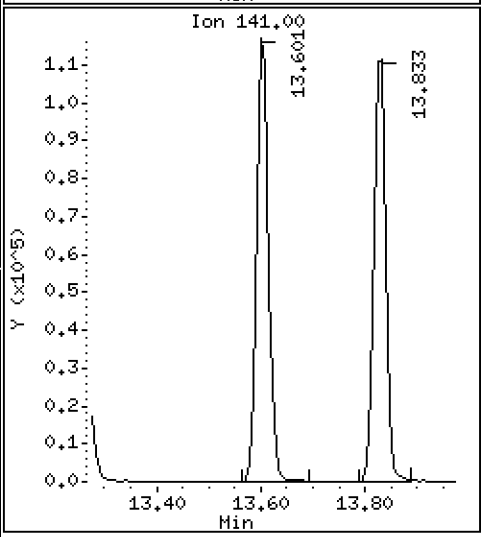
32 2-Methylnaphthalene

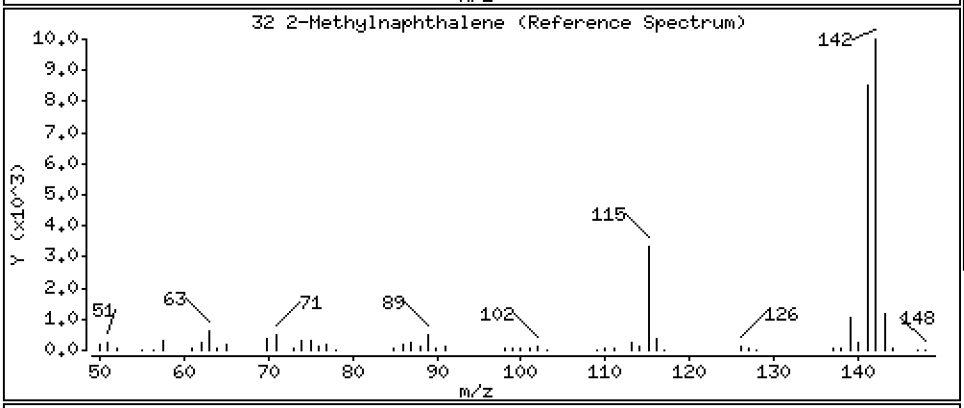
Concentration: 4.810 ug/mL

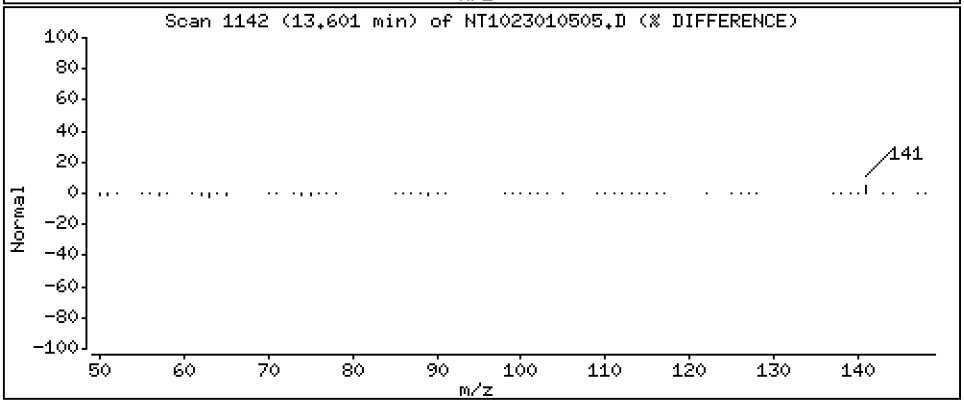












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

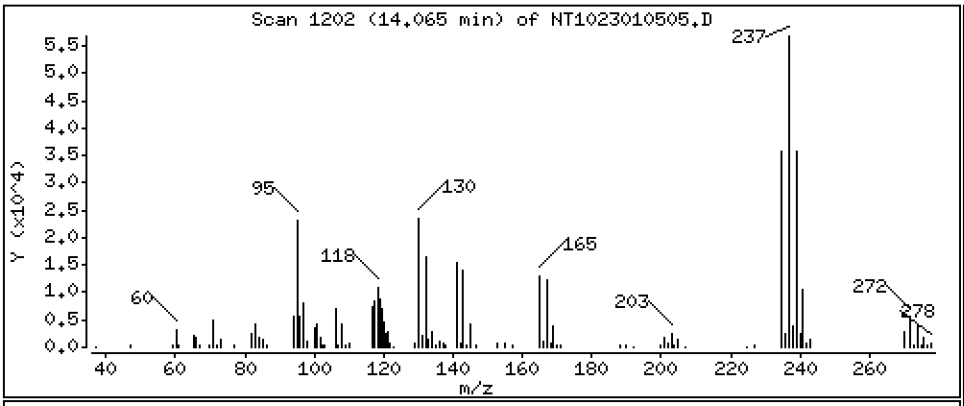
Operator: VTS

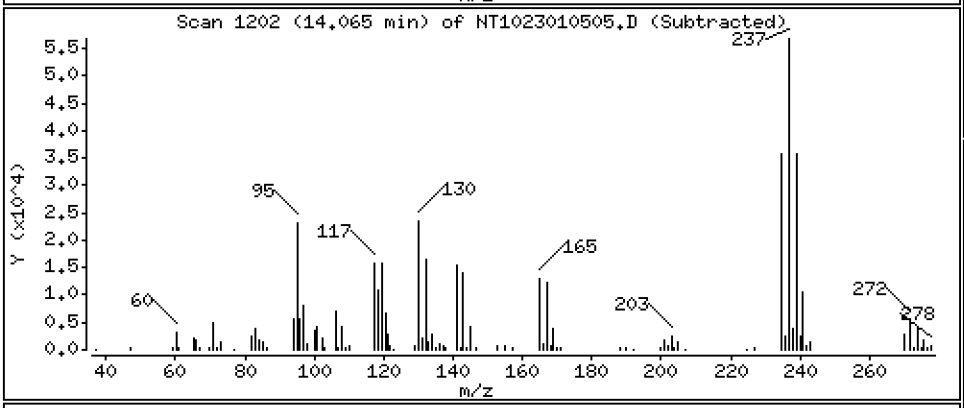
Column phase: ZB-5msi

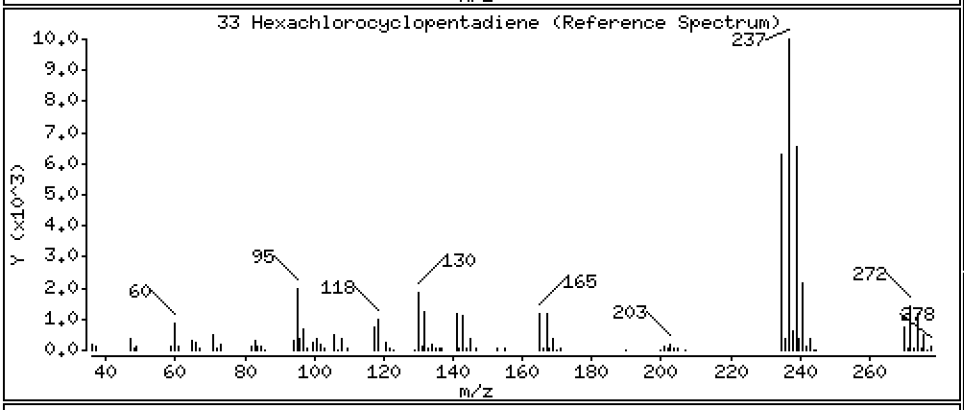
Column diameter: 0.25

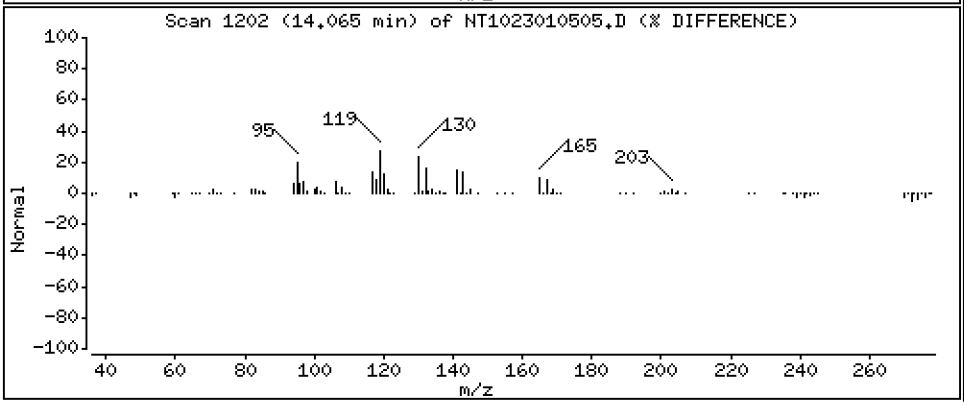
33 Hexachlorocyclopentadiene

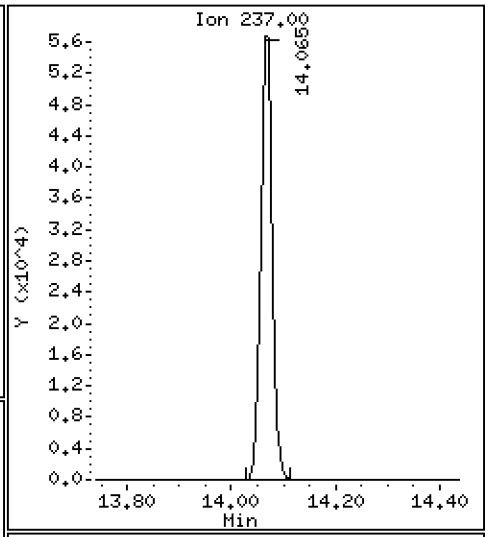
Concentration: 13.37 ug/mL

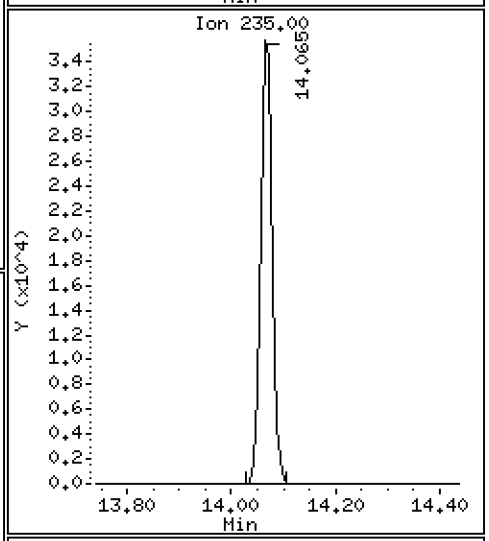


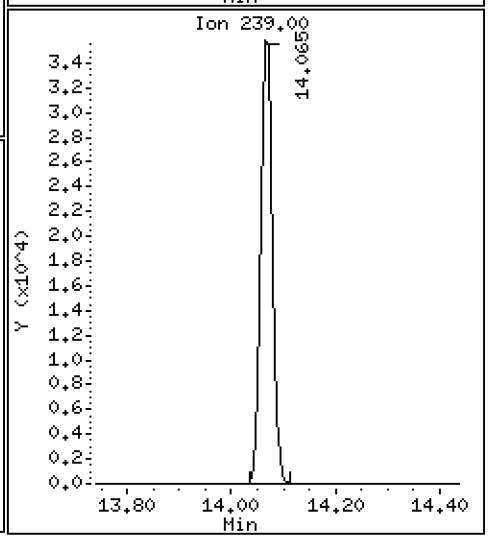












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

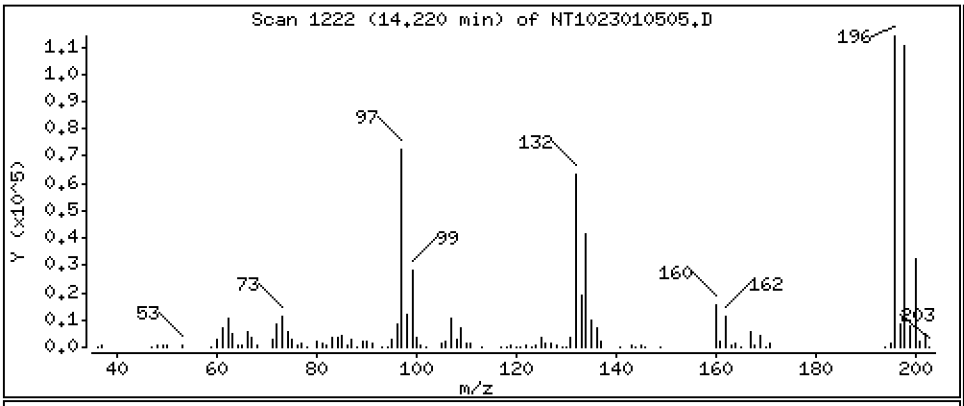
Operator: VTS

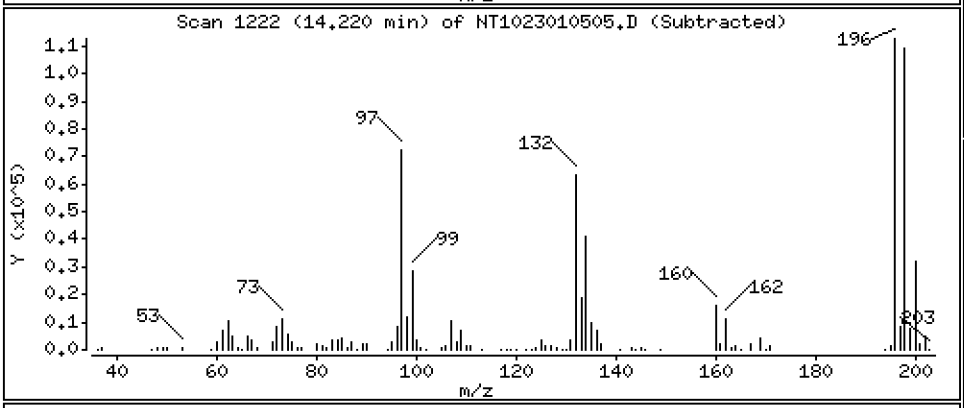
Column phase: ZB-5msi

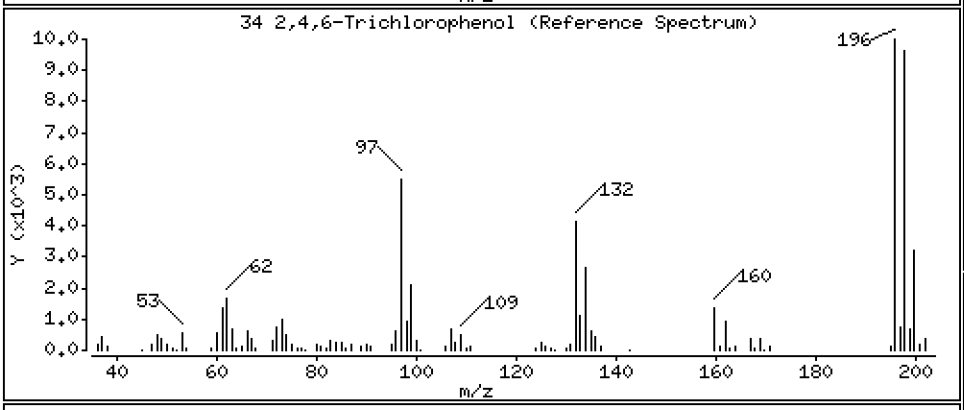
Column diameter: 0.25

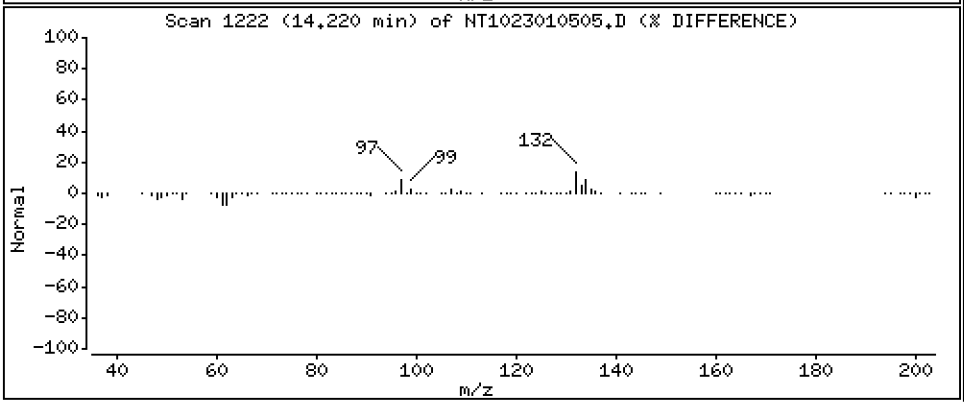
34 2,4,6-Trichlorophenol

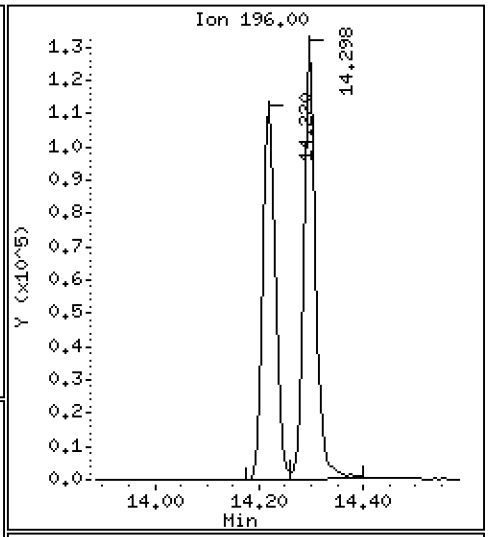
Concentration: 17.89 ug/mL

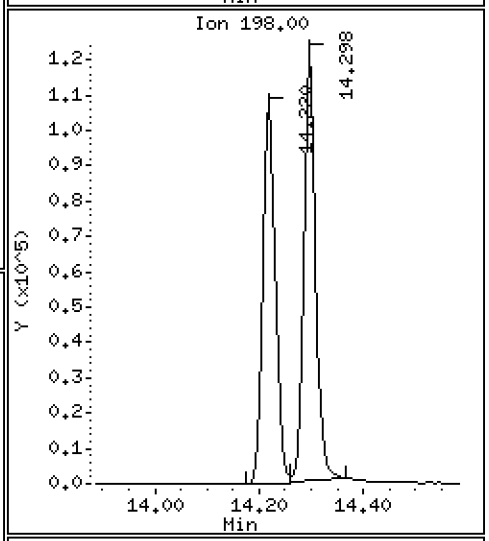


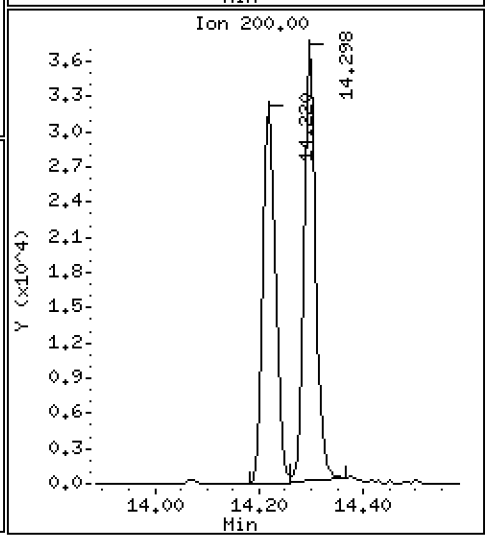












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

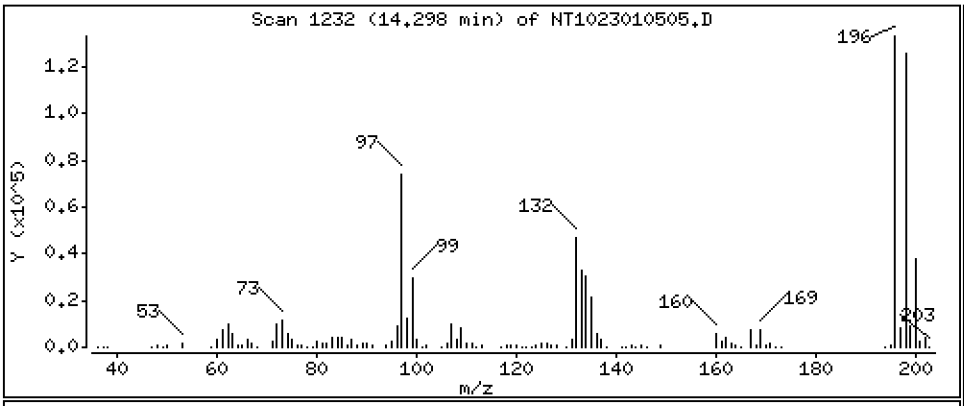
Operator: VTS

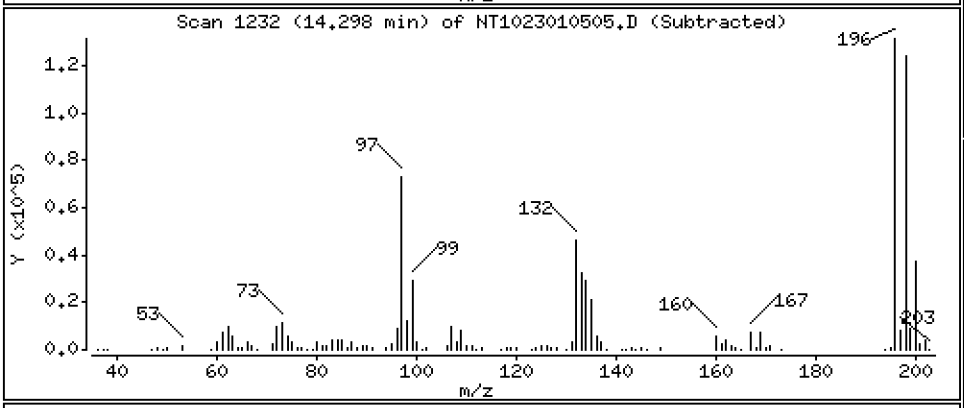
Column phase: ZB-5msi

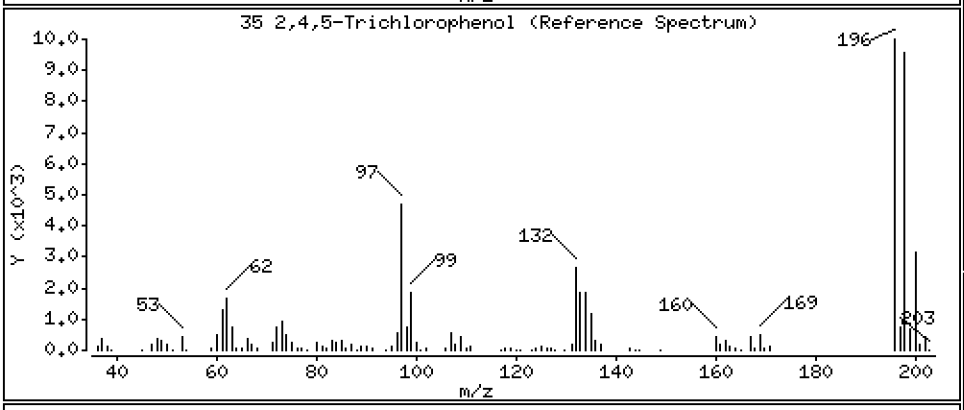
Column diameter: 0.25

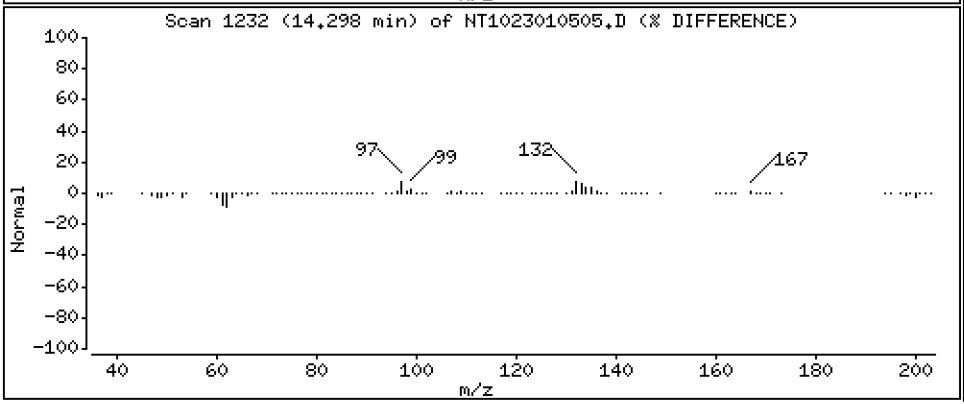
35 2,4,5-Trichlorophenol

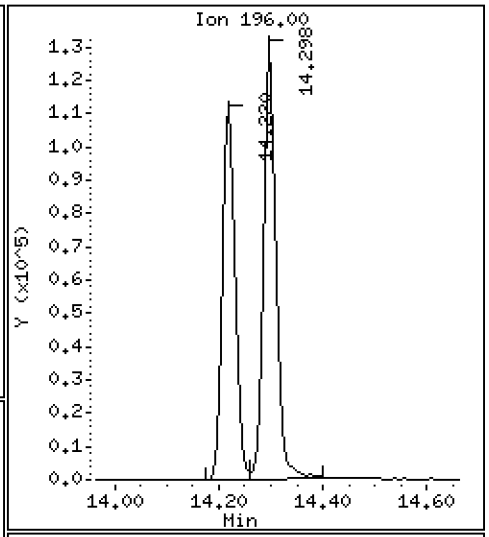
Concentration: 18.22 ug/mL

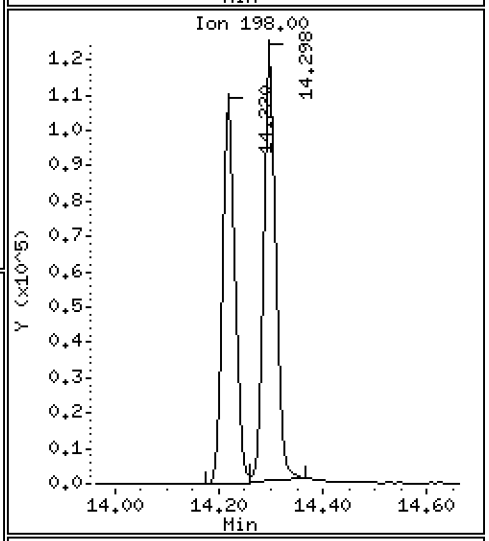


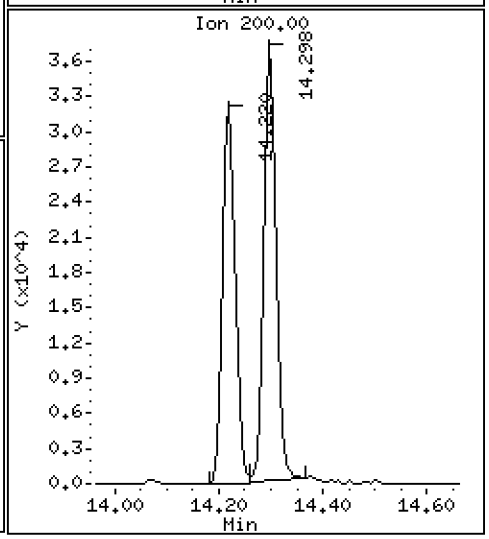












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

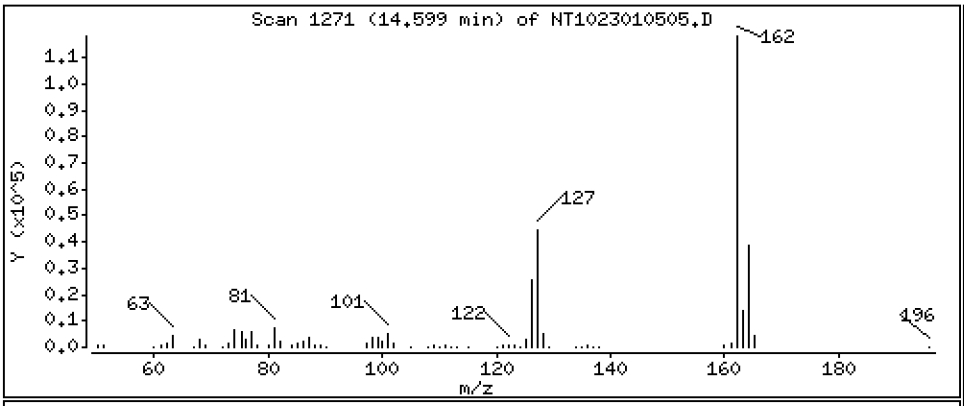
Operator: VTS

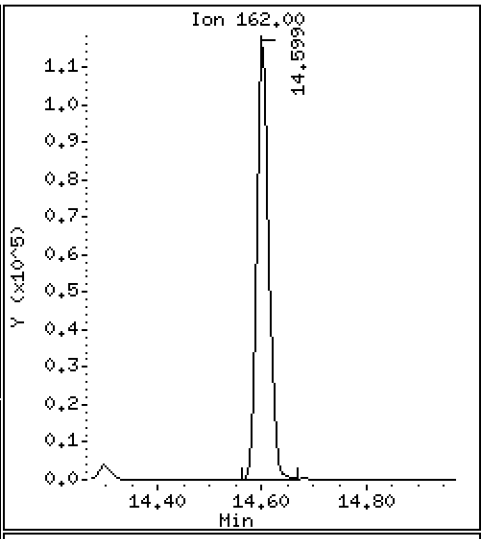
Column phase: ZB-5msi

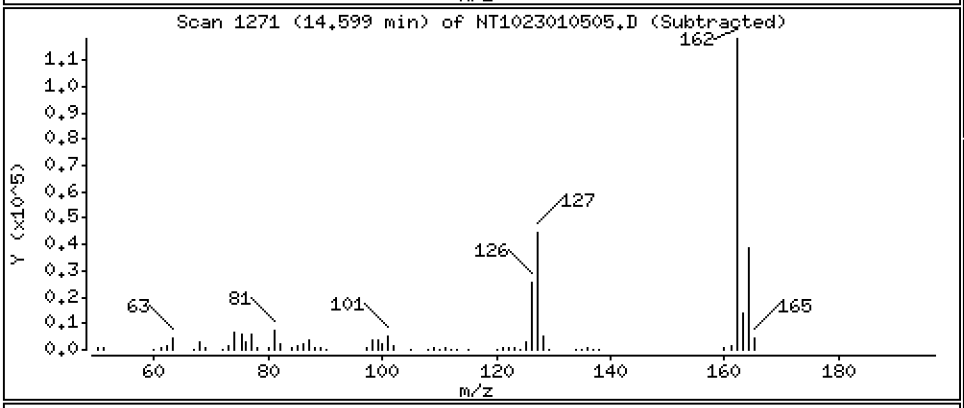
Column diameter: 0.25

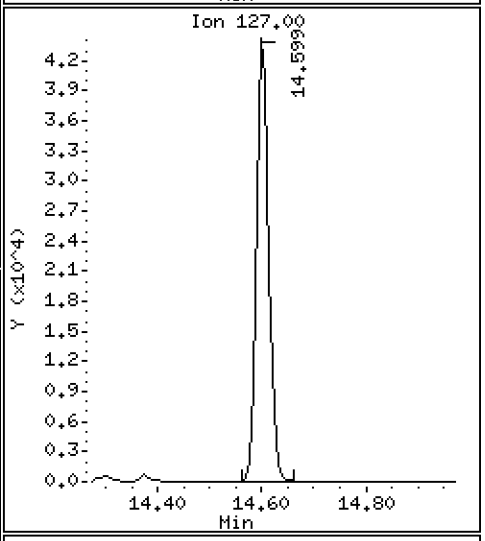
37 2-Chloronaphthalene

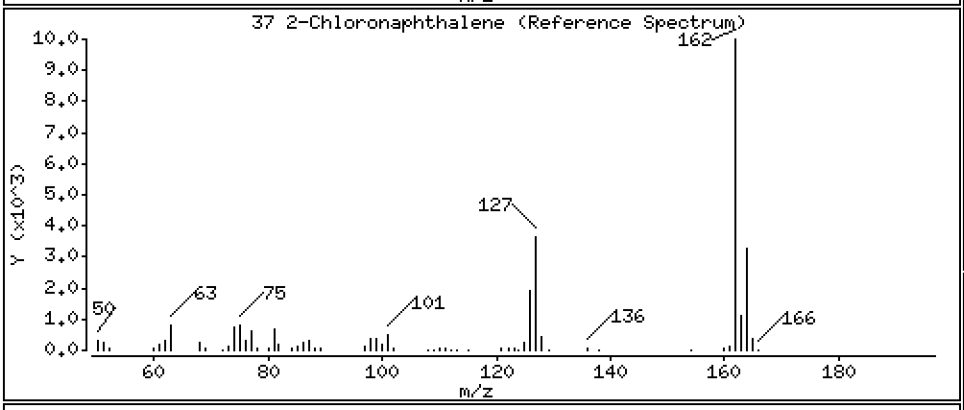
Concentration: 4.815 ug/mL

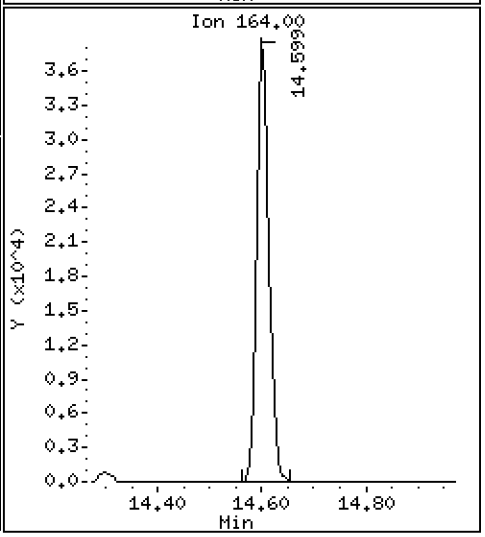


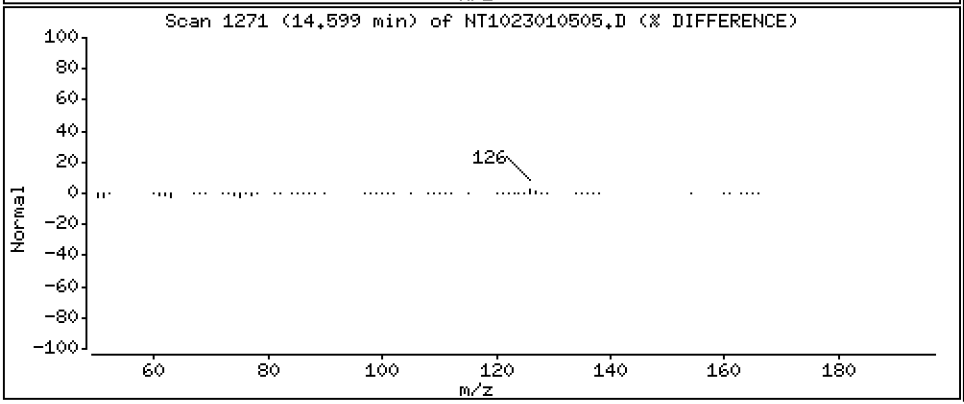












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

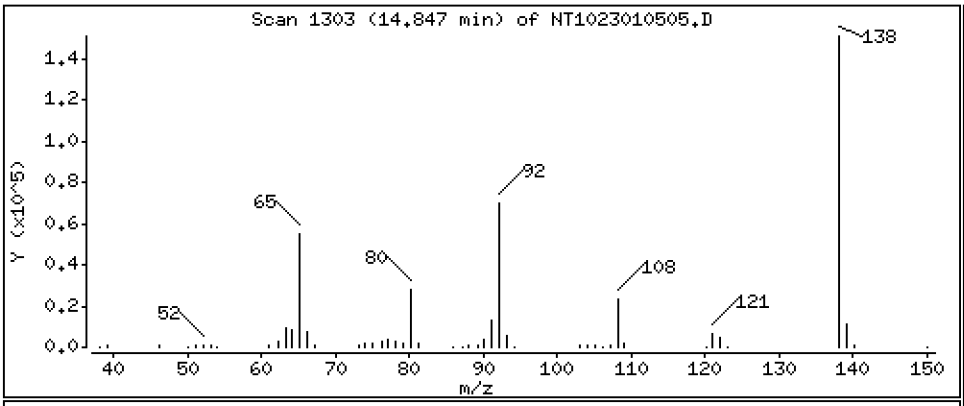
Operator: VTS

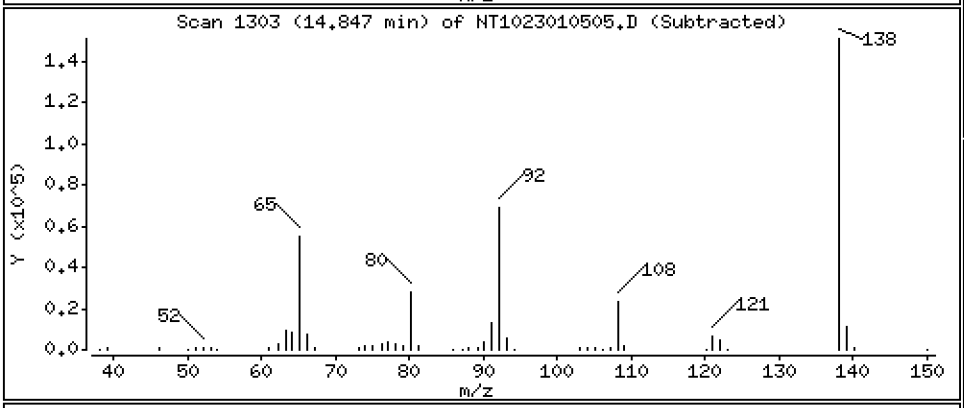
Column phase: ZB-5msi

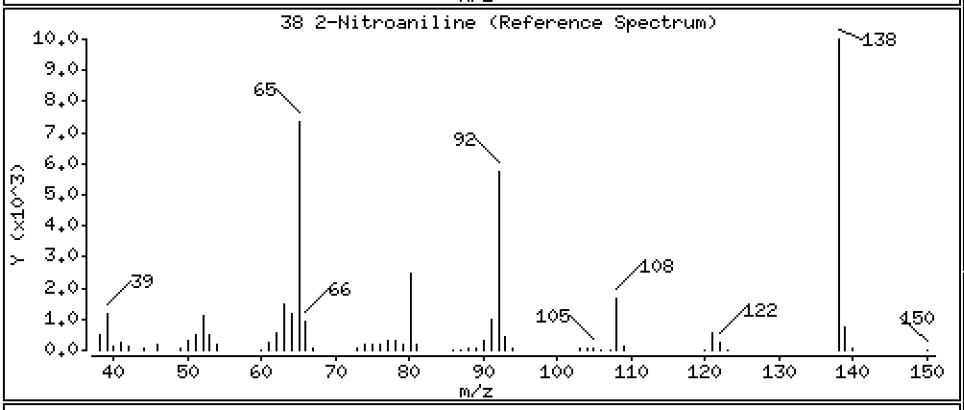
Column diameter: 0.25

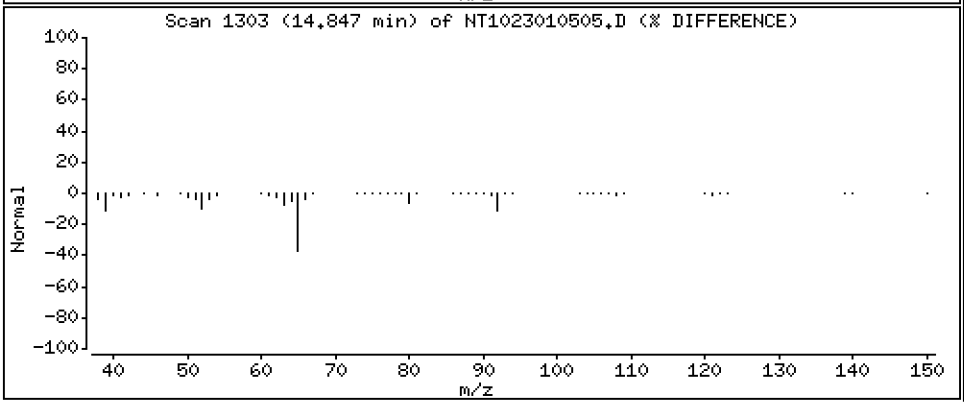
38 2-Nitroaniline

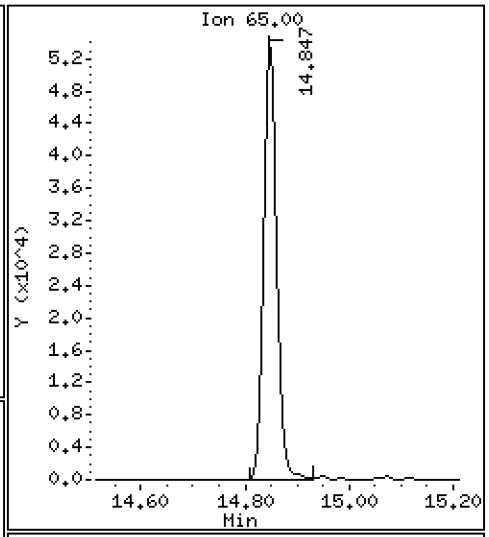
Concentration: 16.61 ug/mL

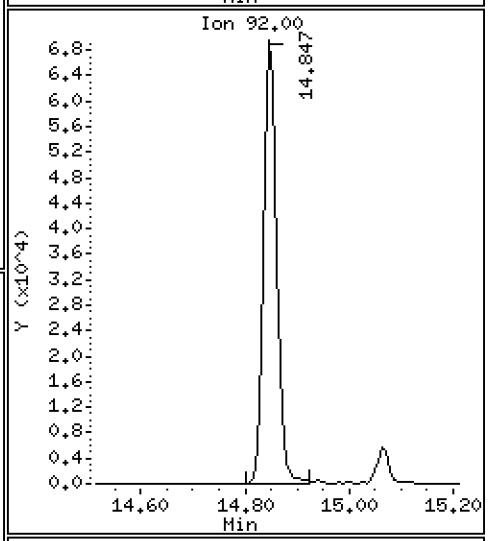


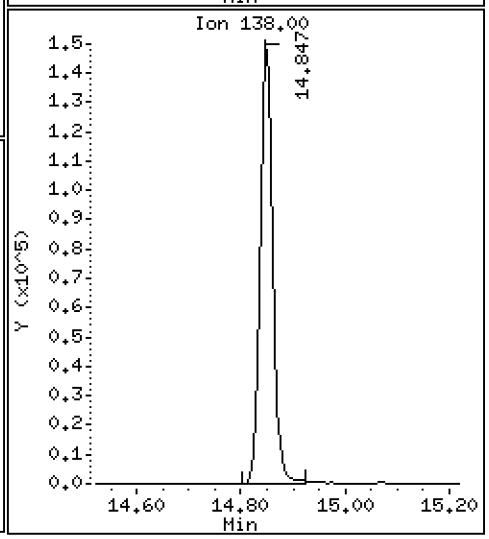












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

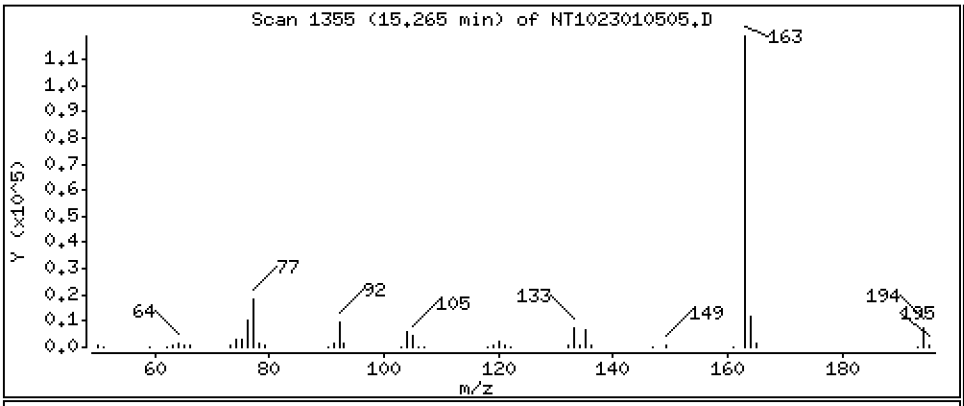
Operator: VTS

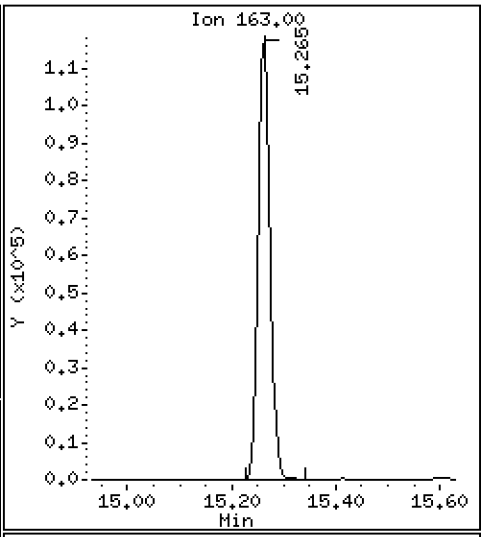
Column phase: ZB-5msi

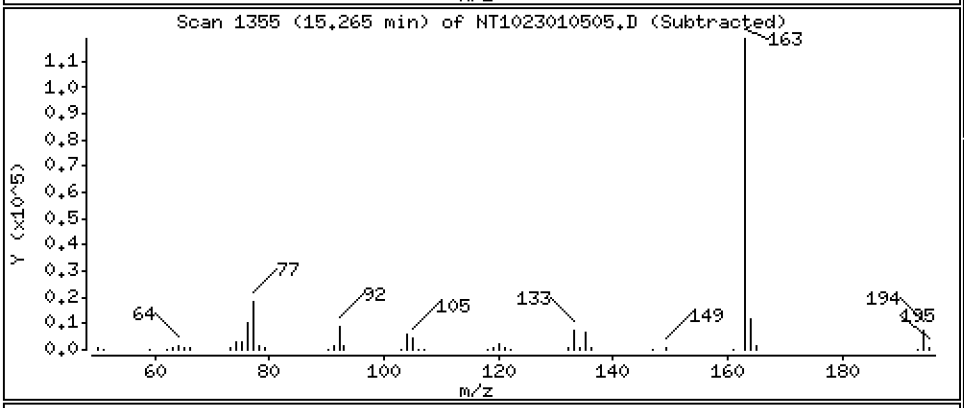
Column diameter: 0.25

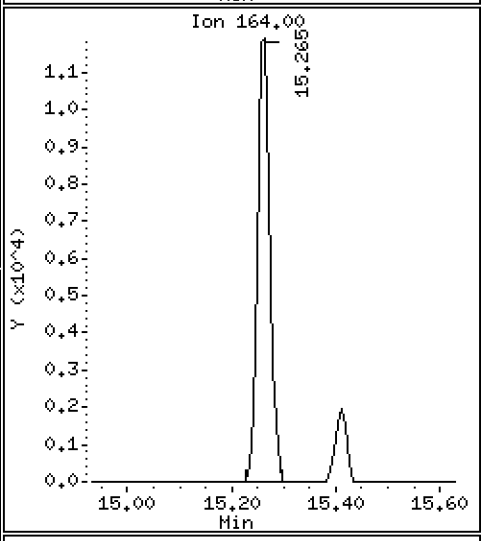
39 Dimethylphthalate

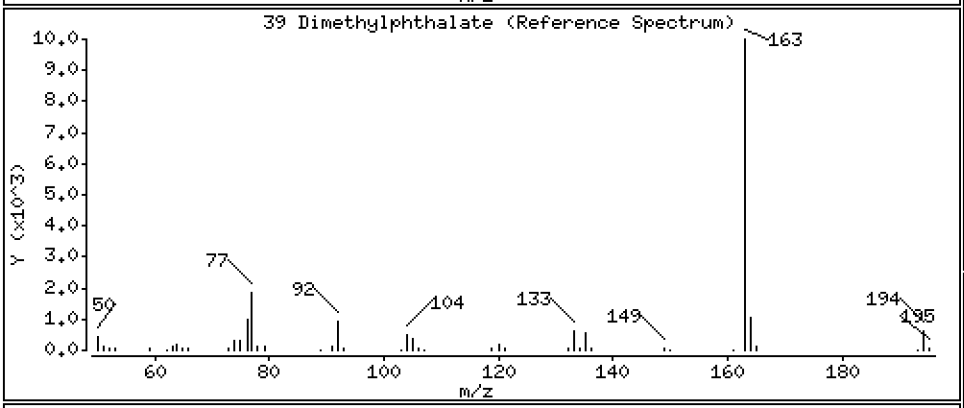
Concentration: 5.411 ug/mL

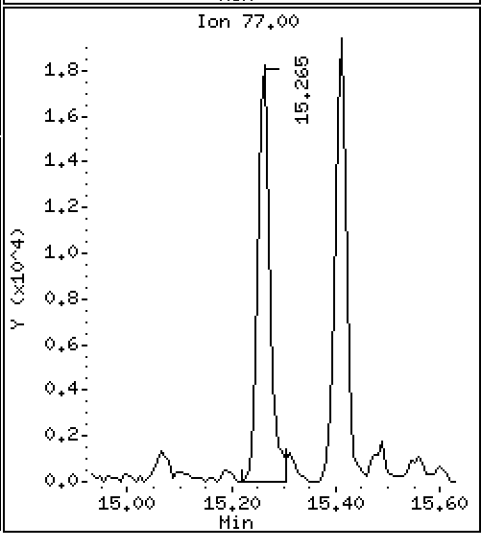


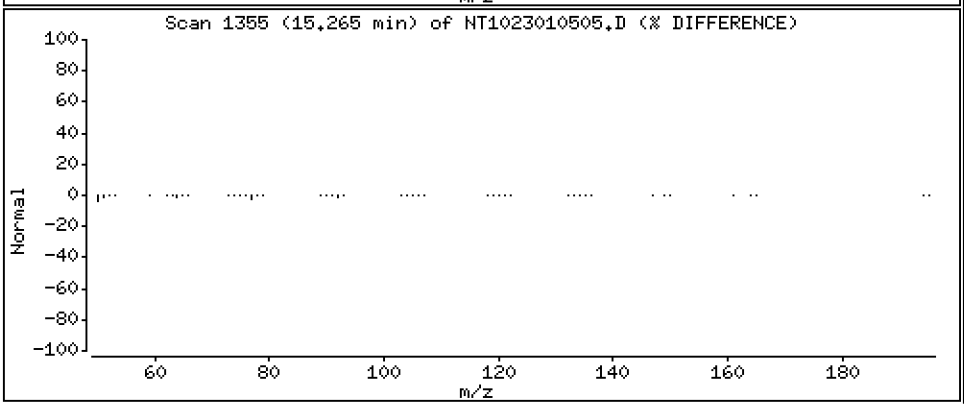












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

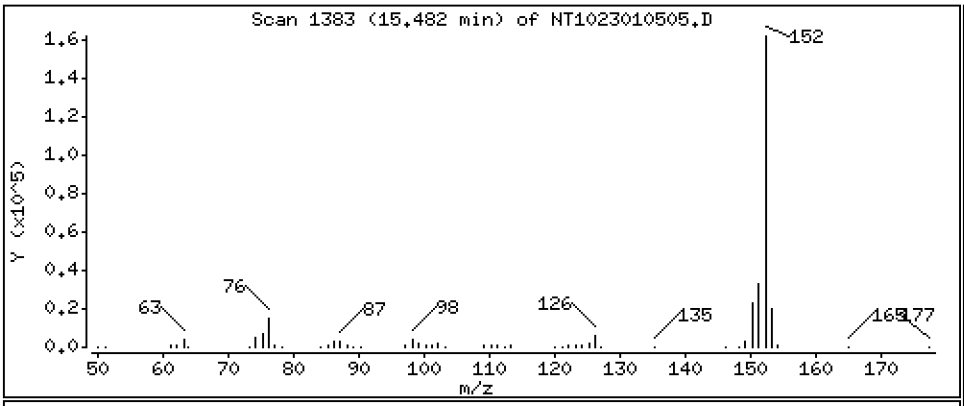
Operator: VTS

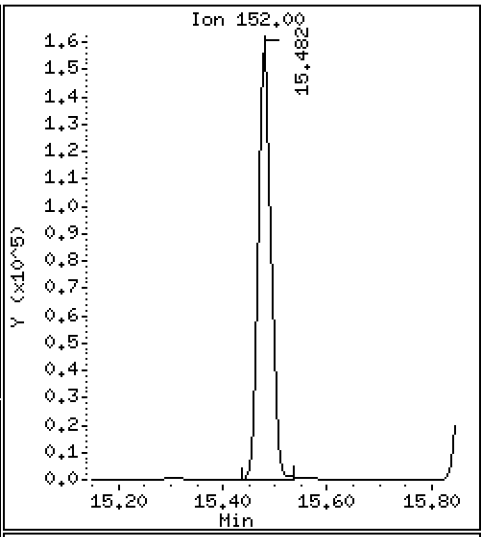
Column phase: ZB-5msi

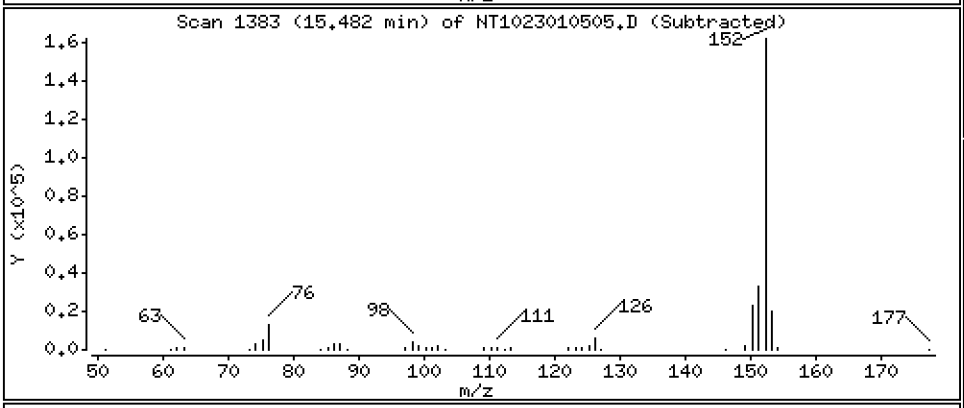
Column diameter: 0.25

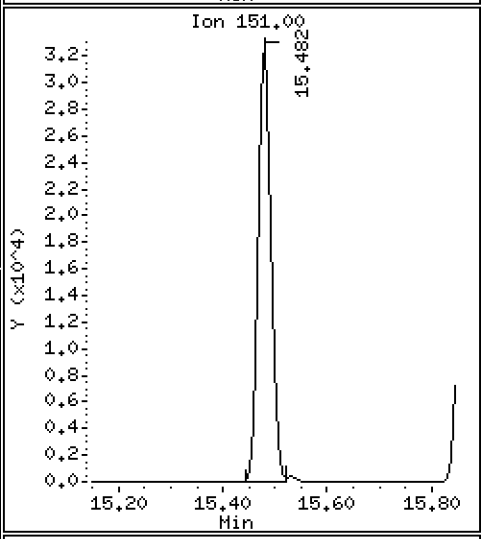
40 Acenaphthylene

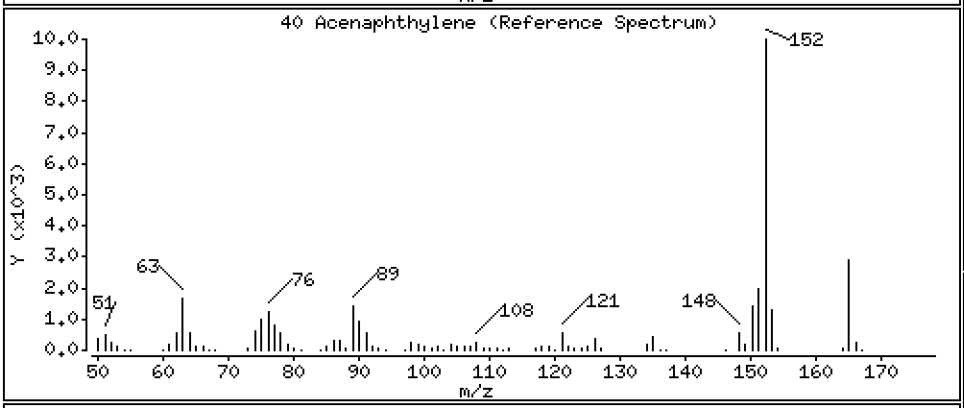
Concentration: 4.723 ug/mL

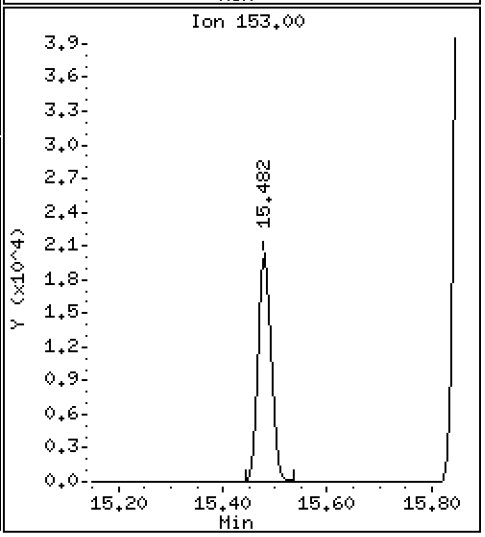


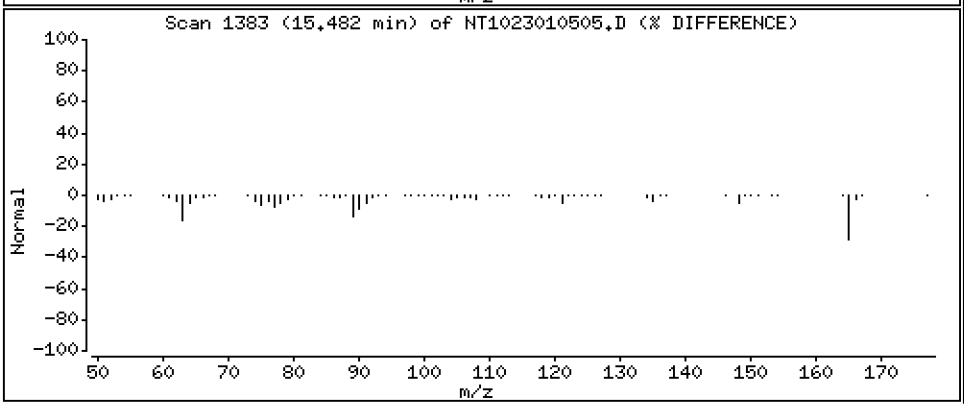












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

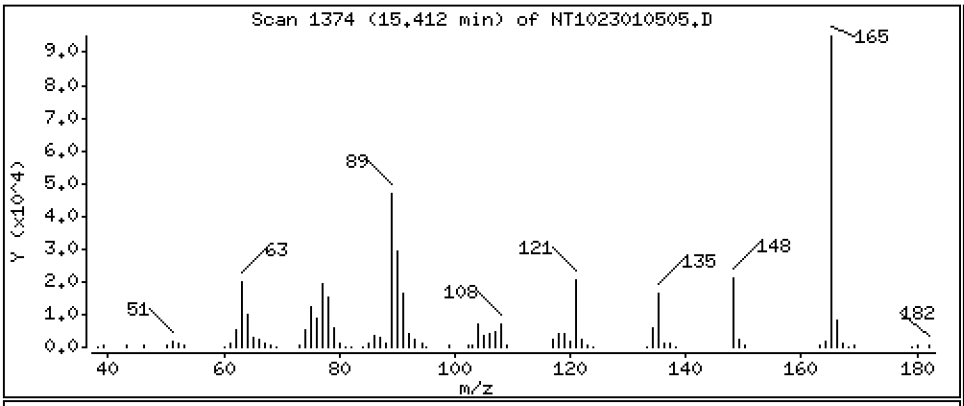
Operator: VTS

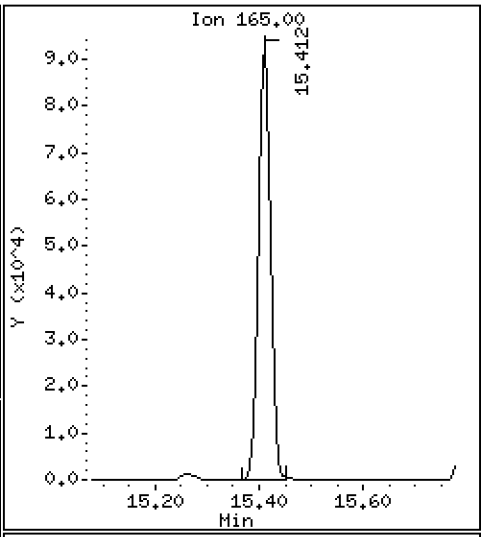
Column phase: ZB-5msi

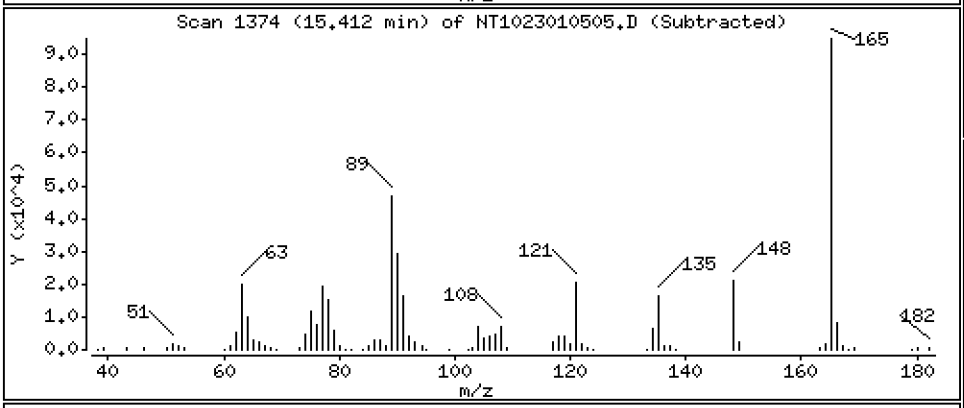
Column diameter: 0.25

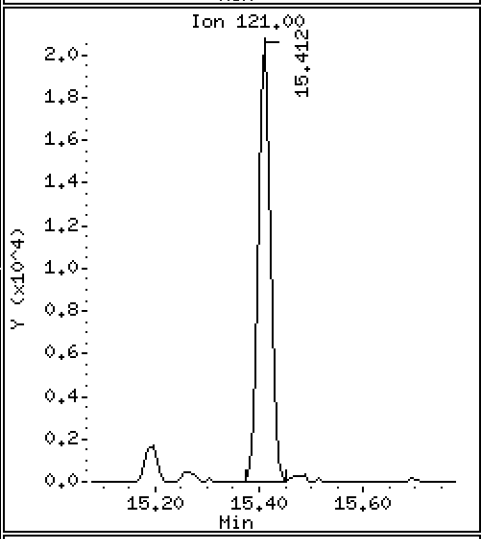
41 2,6-Dinitrotoluene

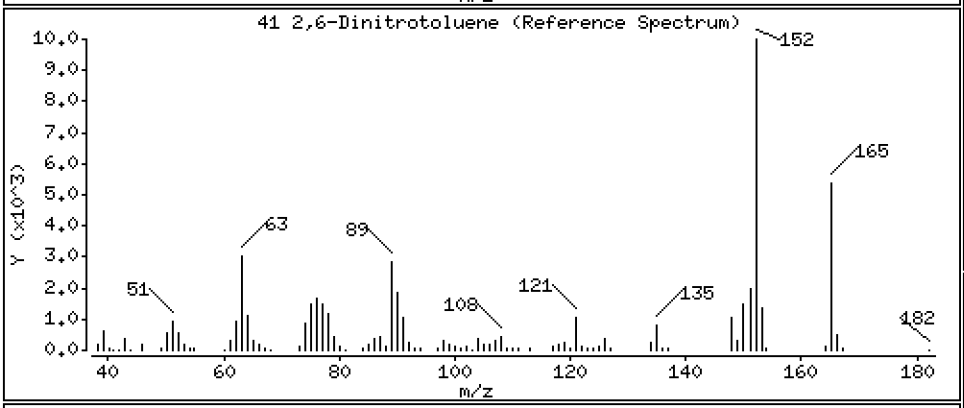
Concentration: 18.25 ug/mL

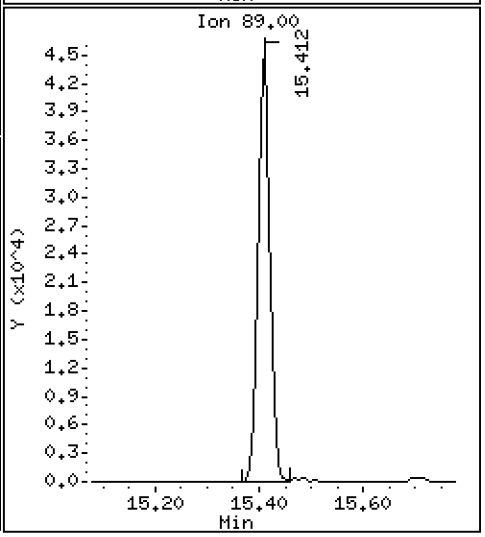


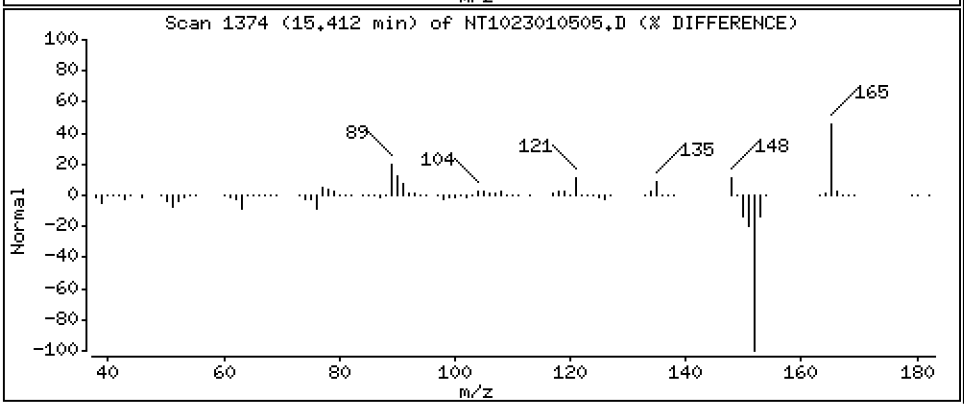












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

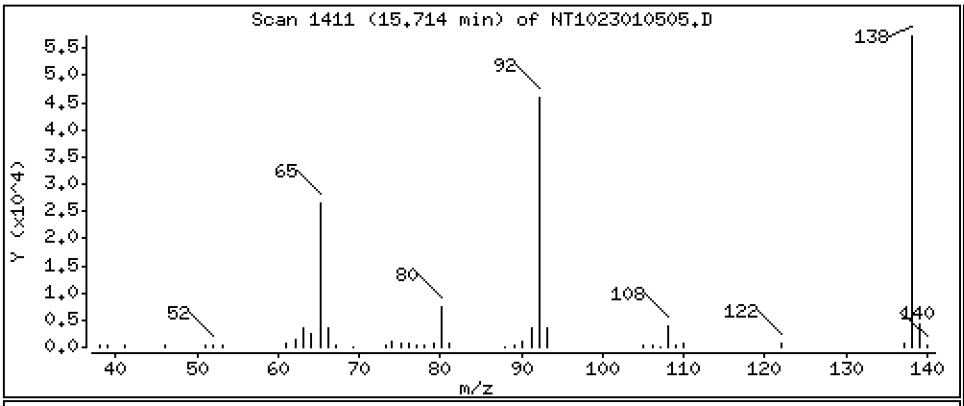
Operator: VTS

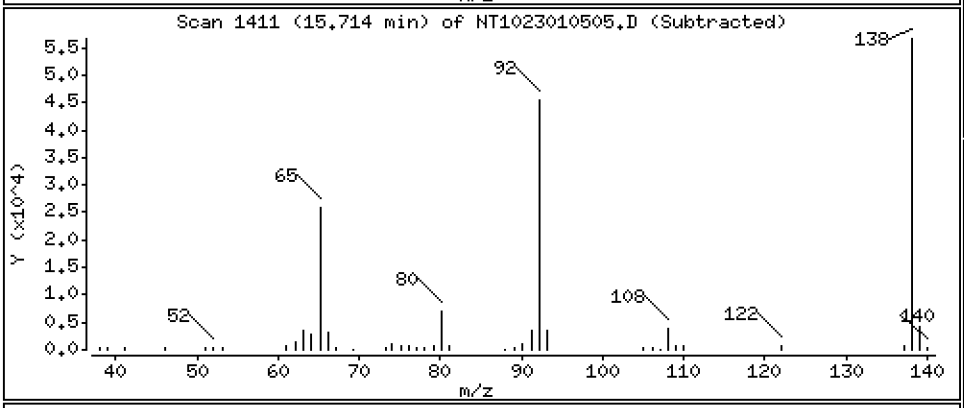
Column phase: ZB-5msi

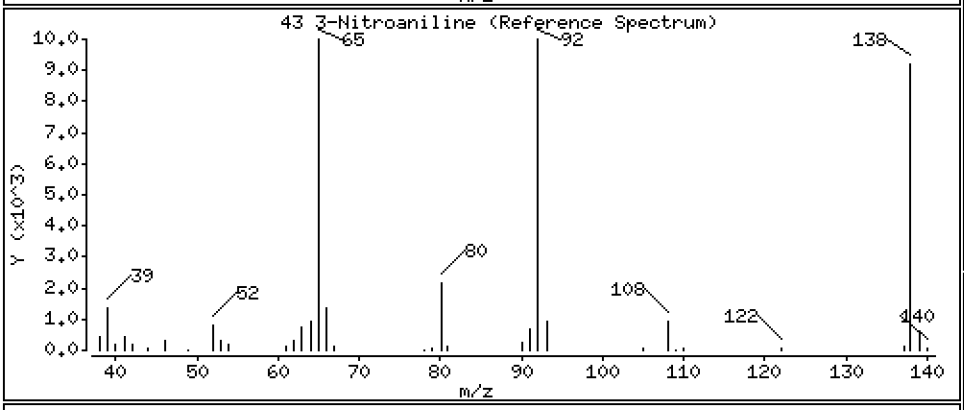
Column diameter: 0.25

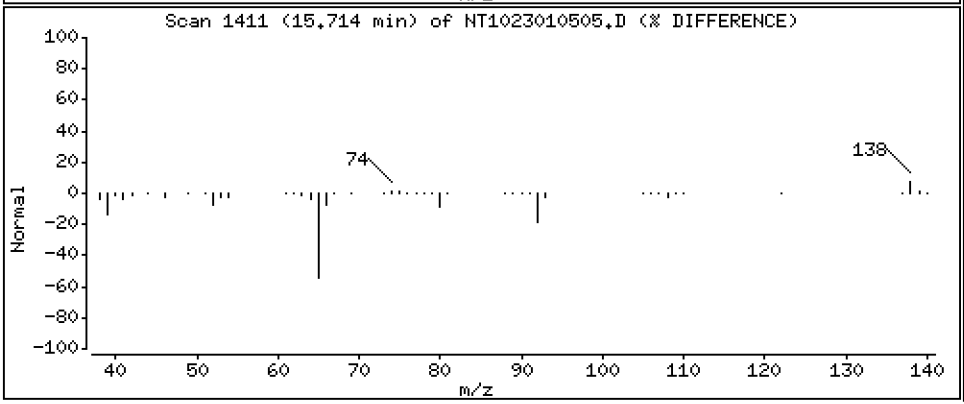
43 3-Nitroaniline

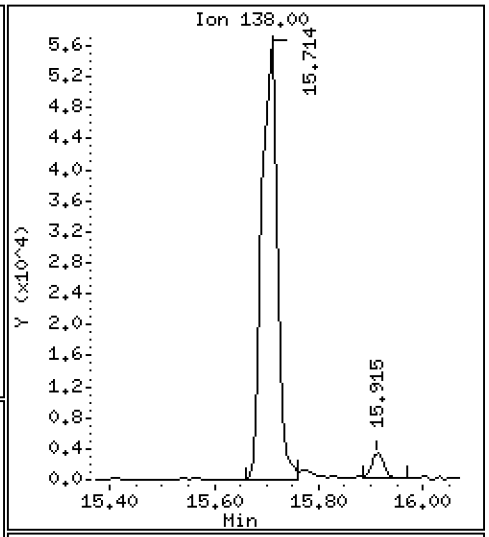
Concentration: 13.69 ug/mL

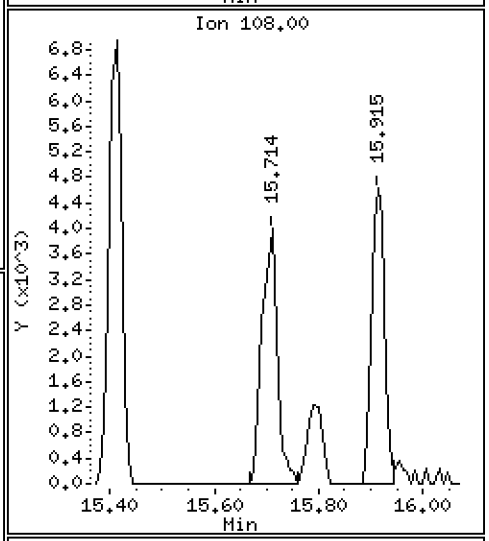


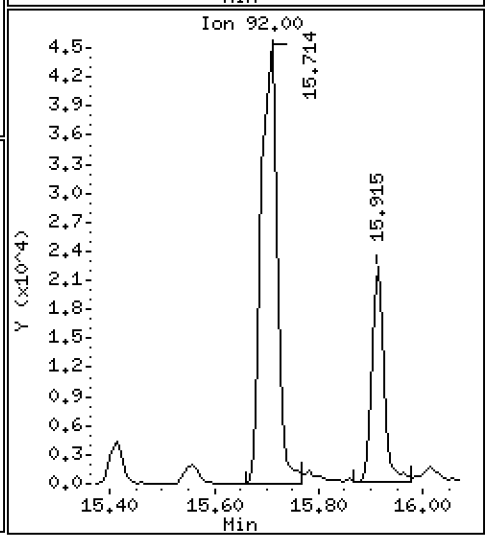












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

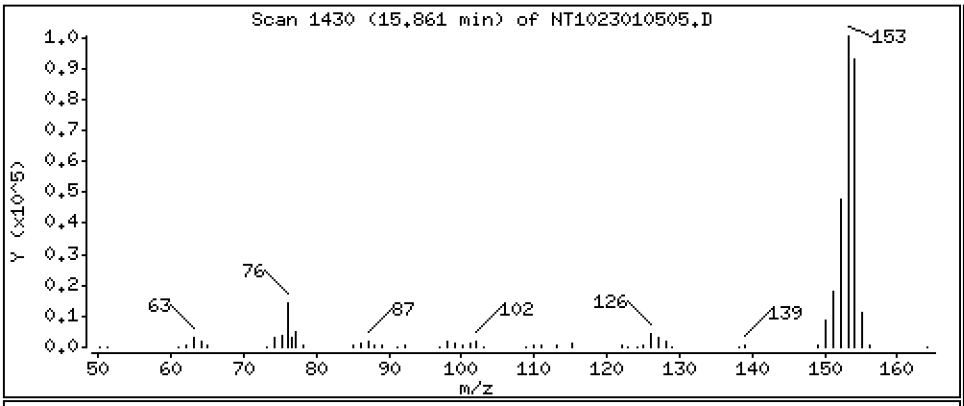
Operator: VTS

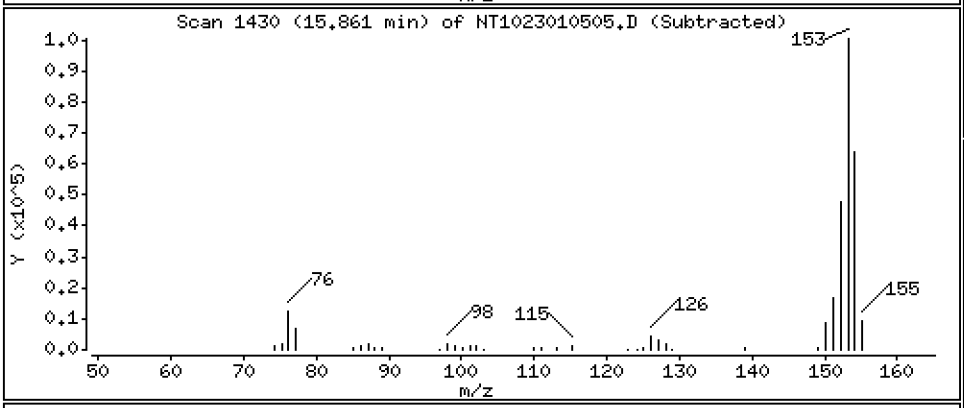
Column phase: ZB-5msi

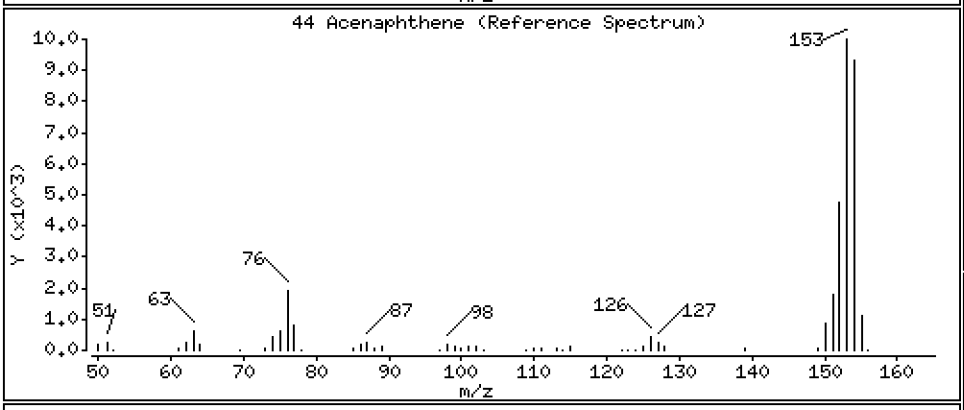
Column diameter: 0.25

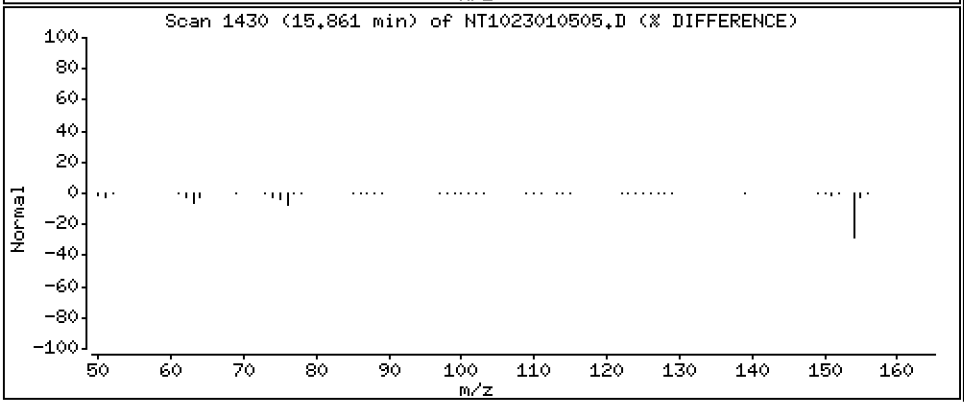
44 Acenaphthene

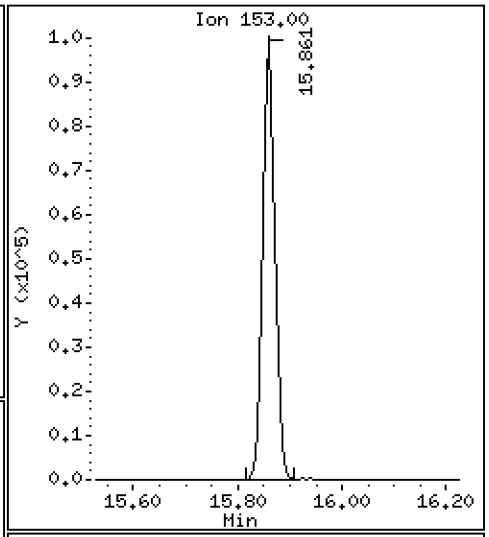
Concentration: 5.068 ug/mL

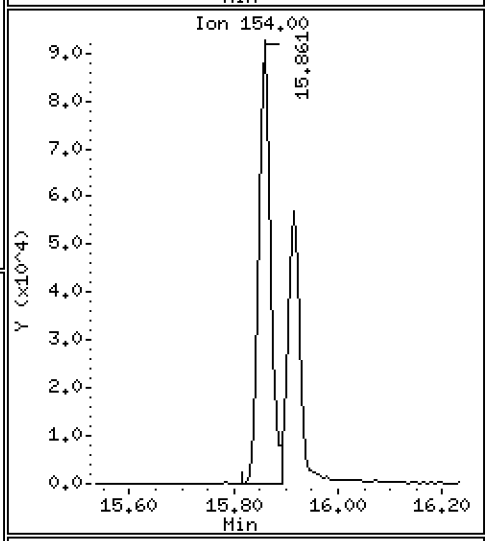


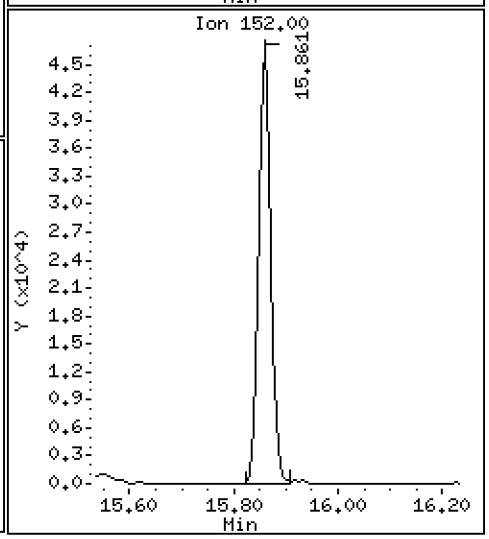












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

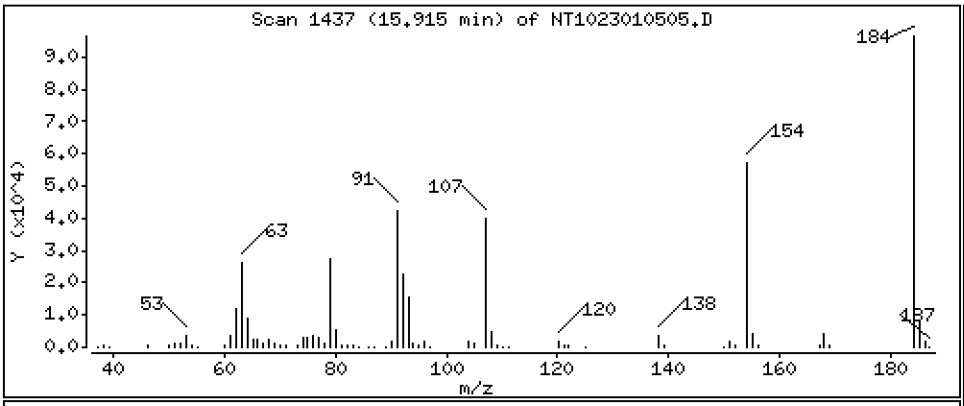
Operator: VTS

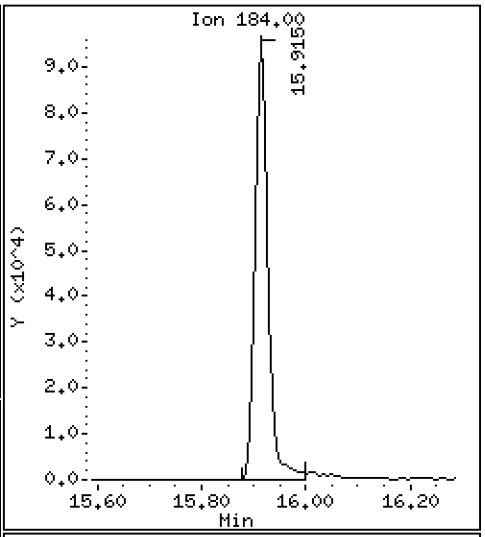
Column phase: ZB-5msi

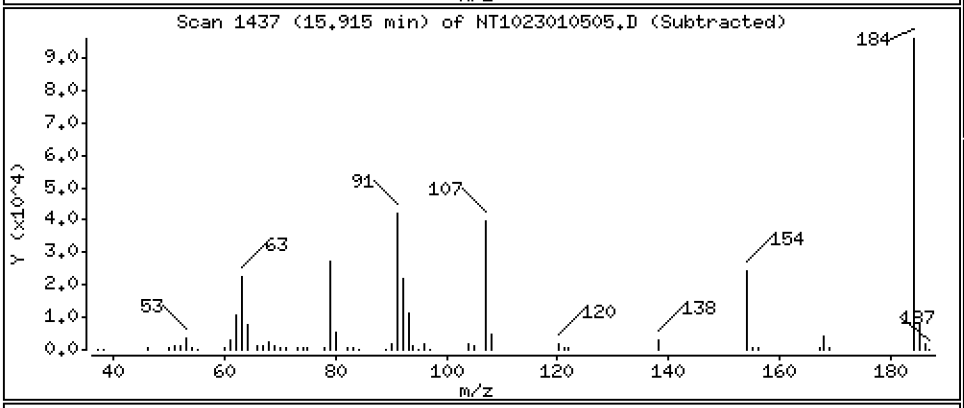
Column diameter: 0.25

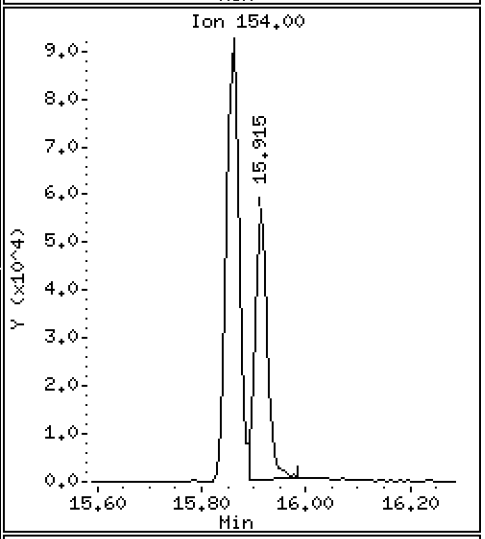
45 2,4-Dinitrophenol

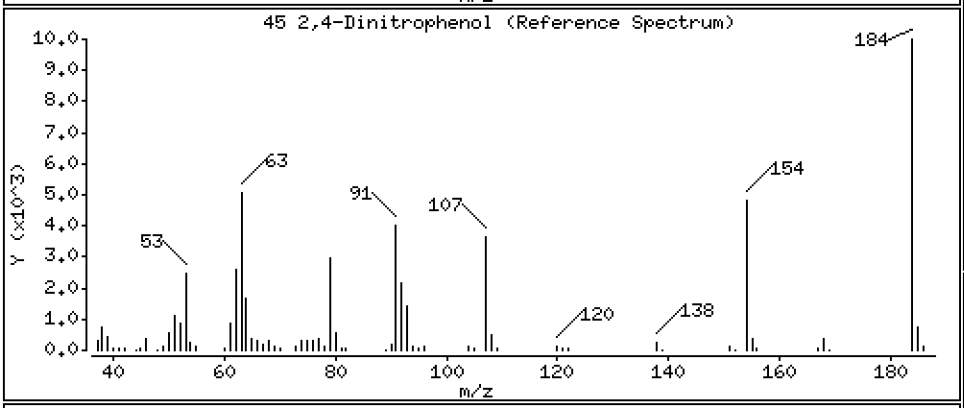
Concentration: 29.17 ug/mL

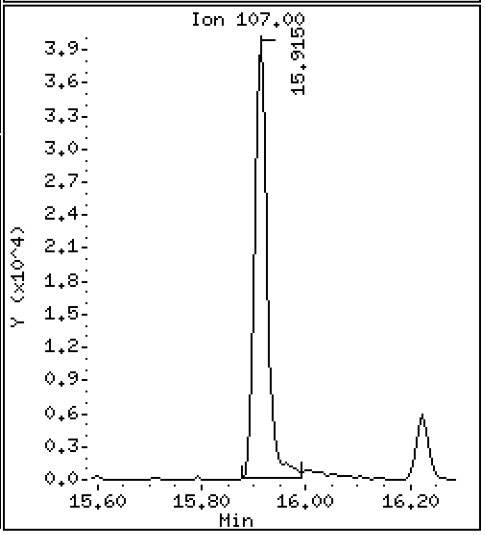


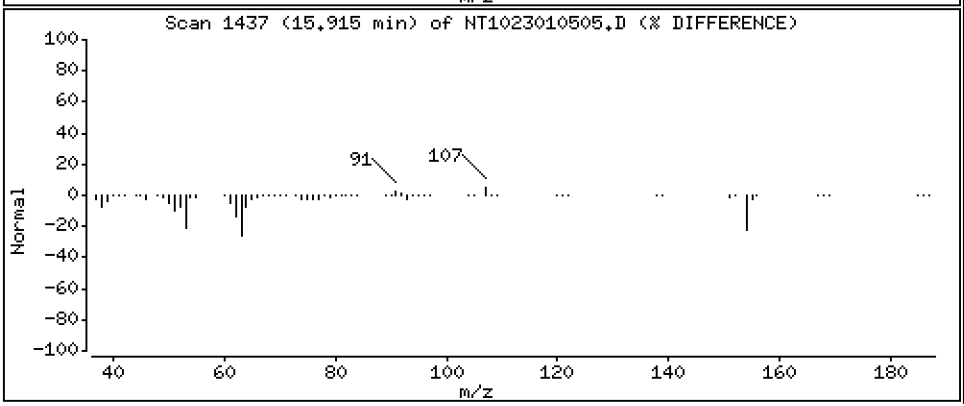












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

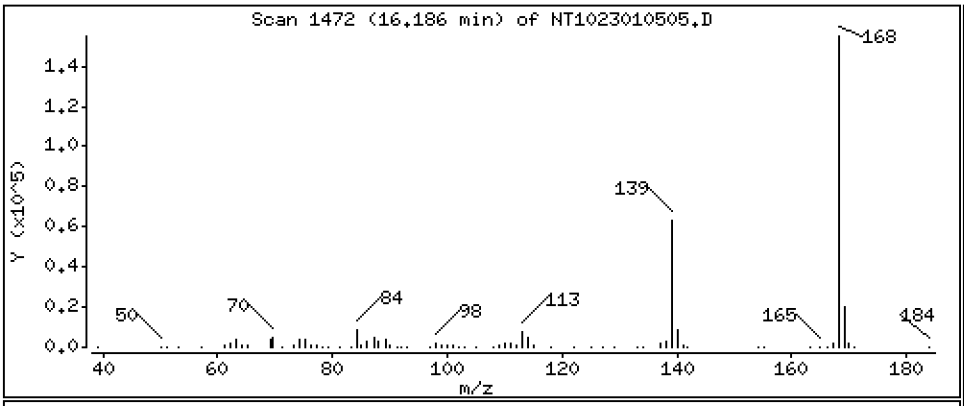
Operator: VTS

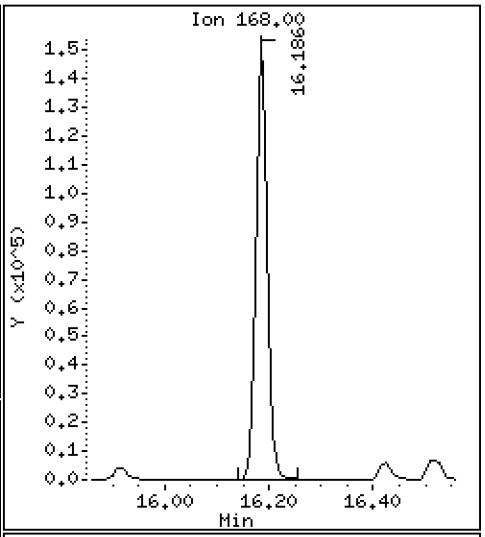
Column phase: ZB-5msi

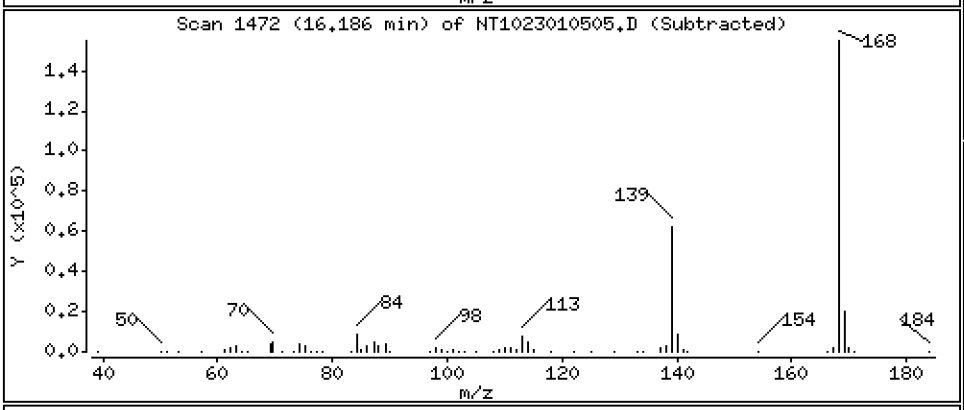
Column diameter: 0.25

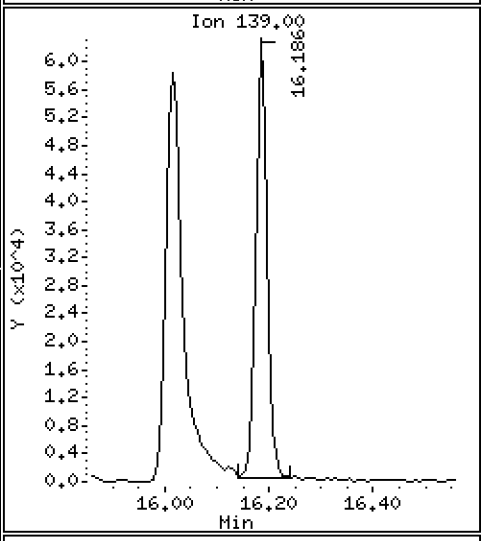
46 Dibenzofuran

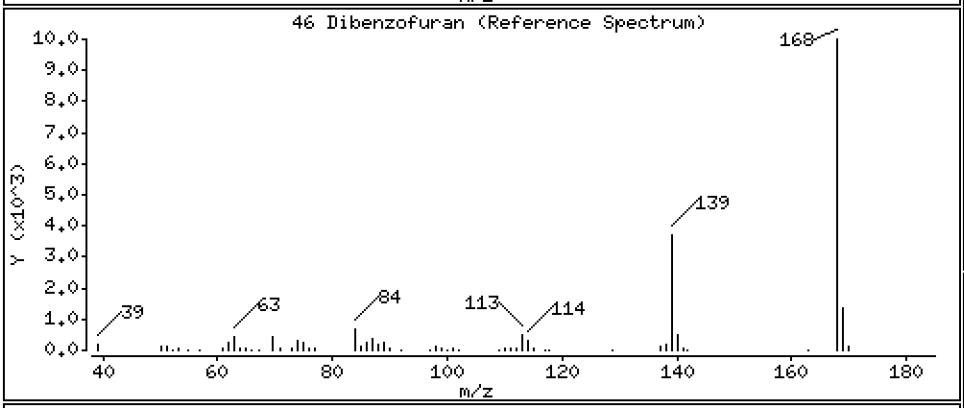
Concentration: 4.970 ug/mL

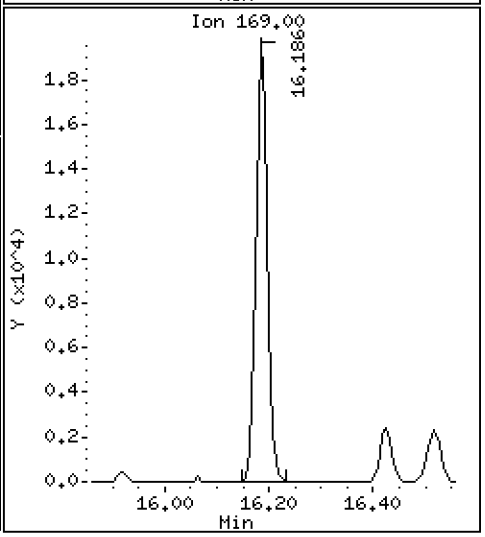


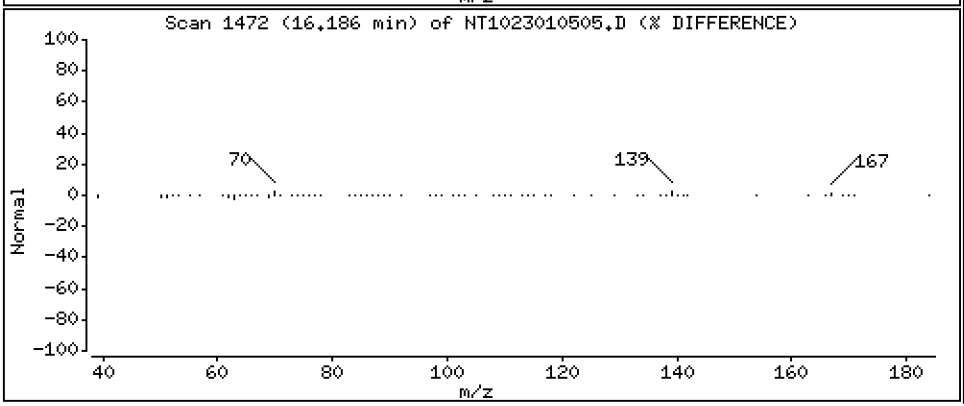












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

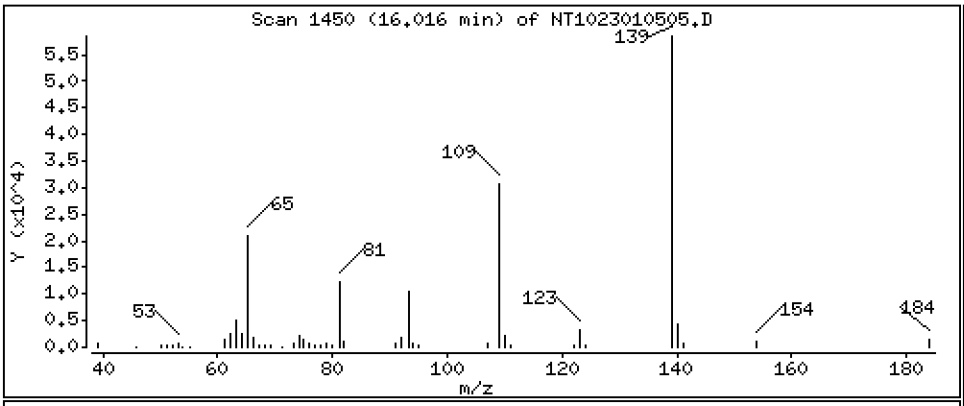
Operator: VTS

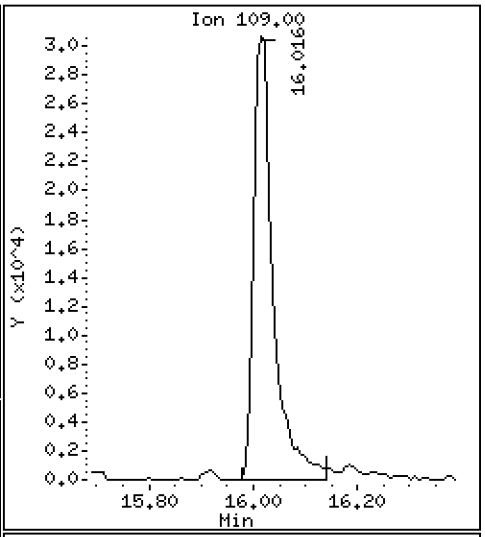
Column phase: ZB-5msi

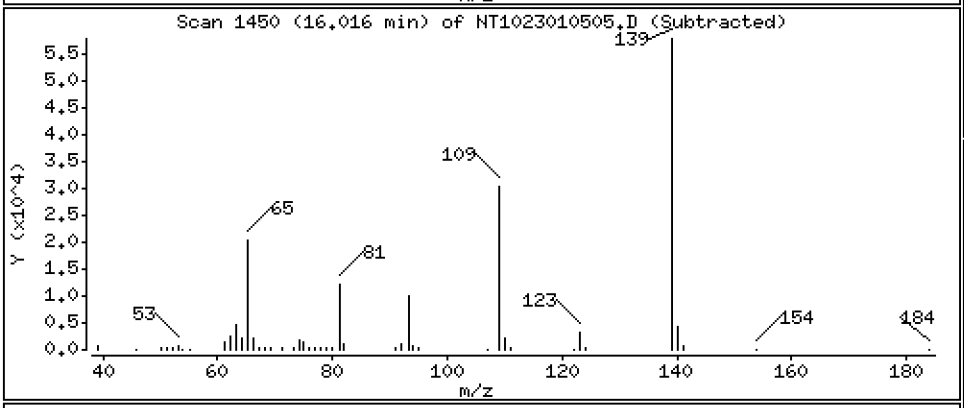
Column diameter: 0.25

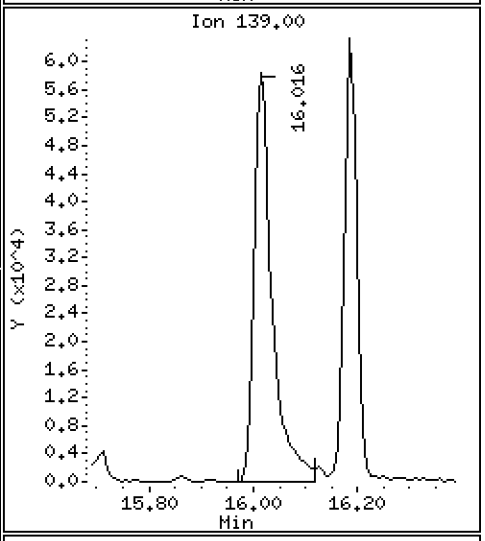
47 4-Nitrophenol

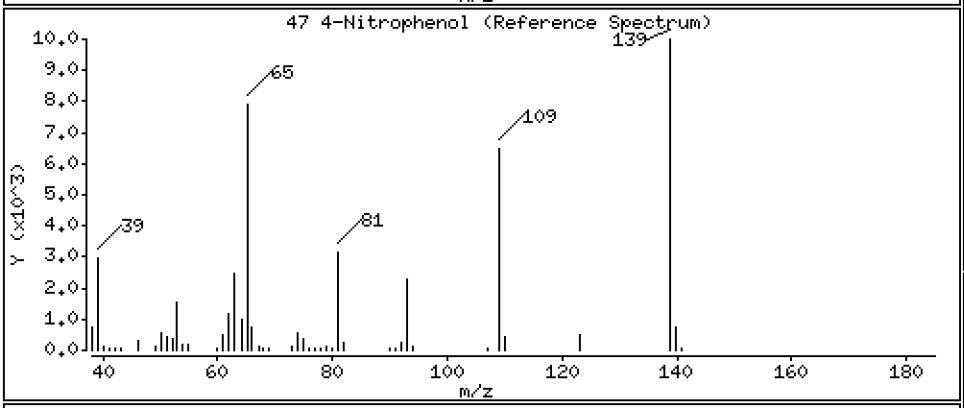
Concentration: 17.20 ug/mL

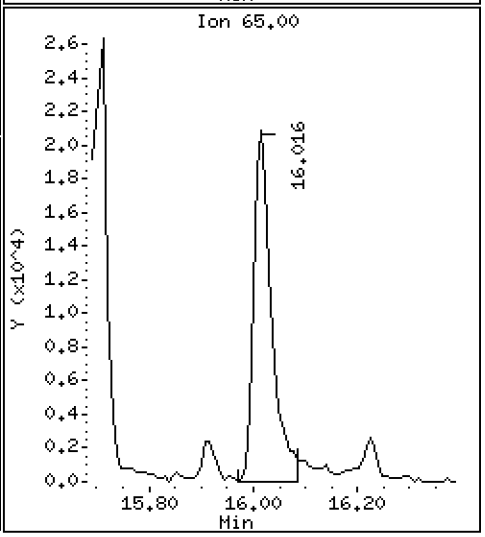


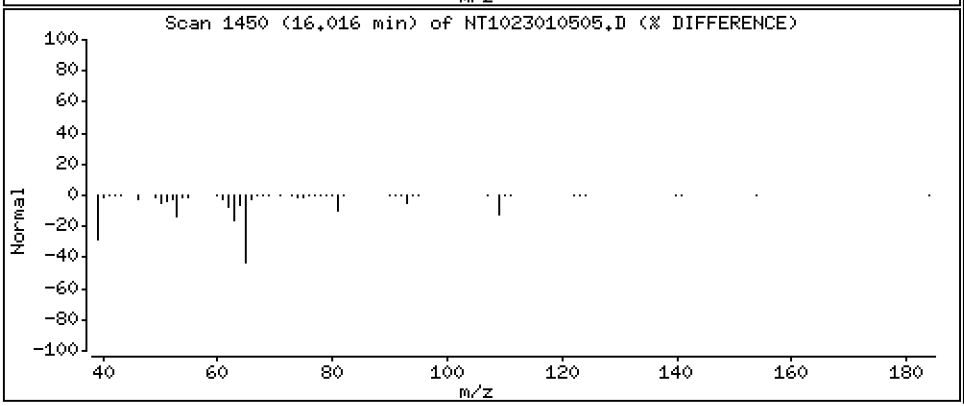












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

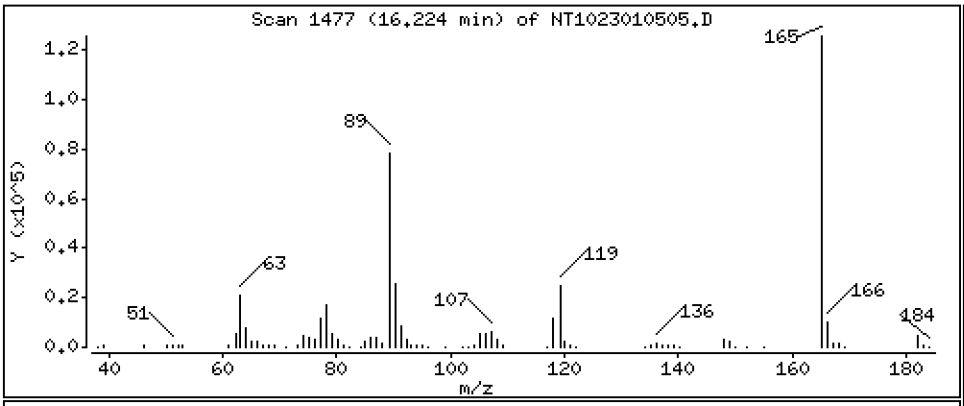
Operator: VTS

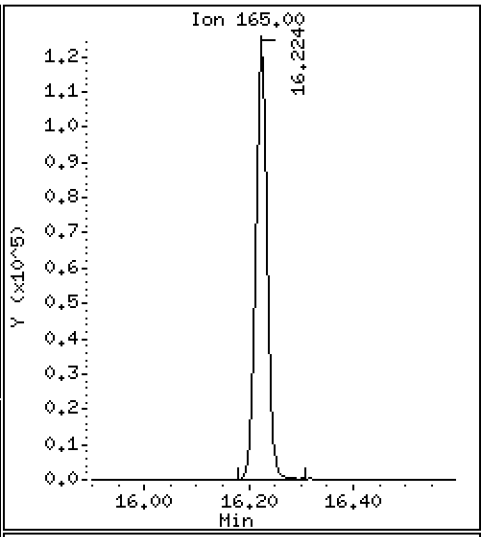
Column phase: ZB-5msi

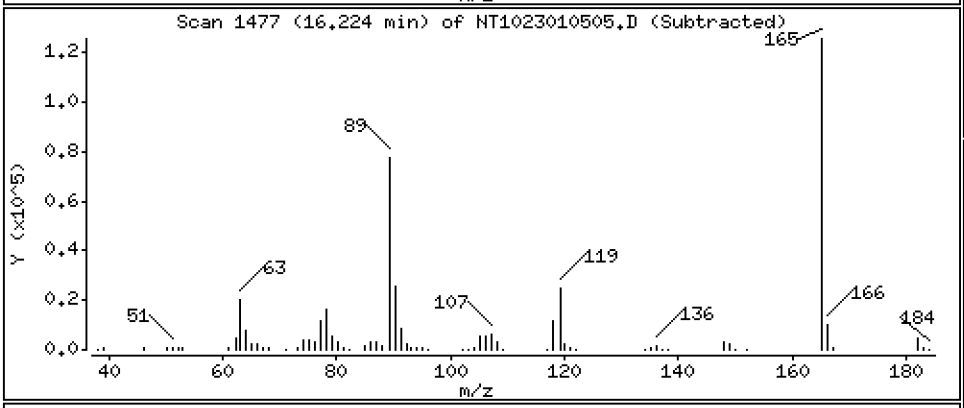
Column diameter: 0.25

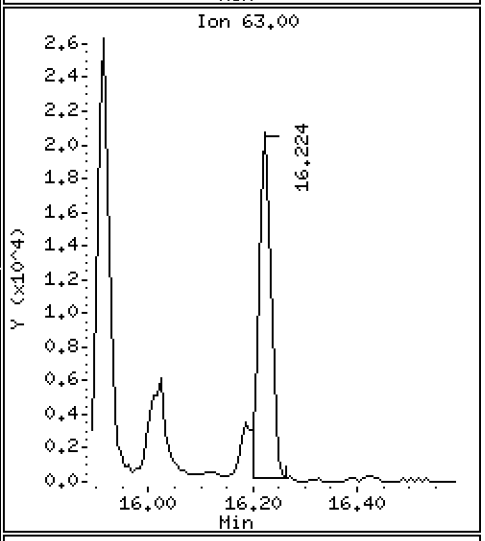
48 2,4-Dinitrotoluene

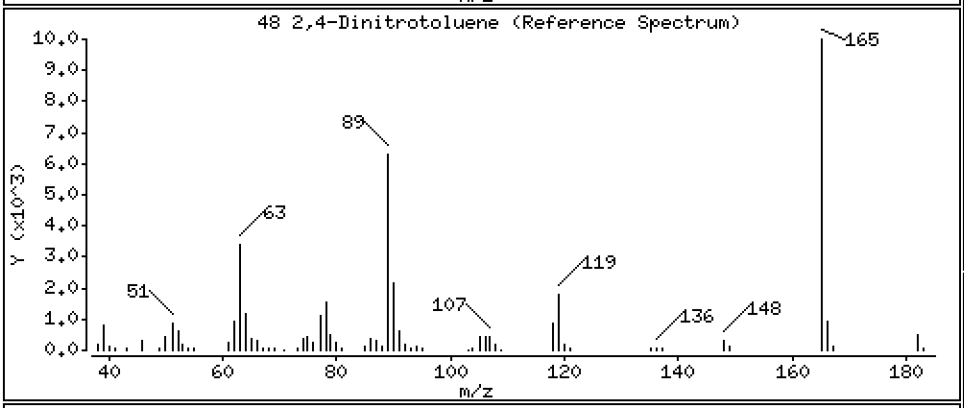
Concentration: 17.98 ug/mL

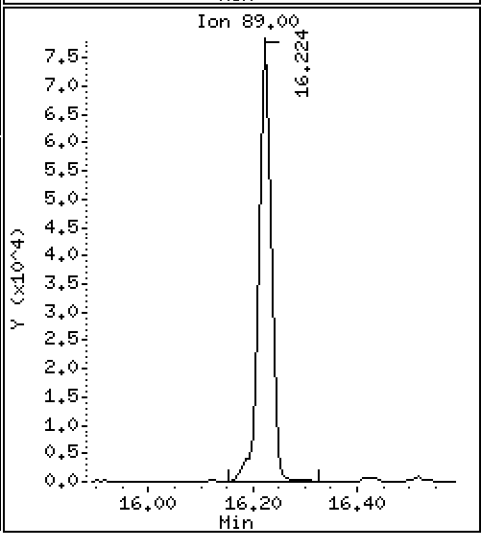


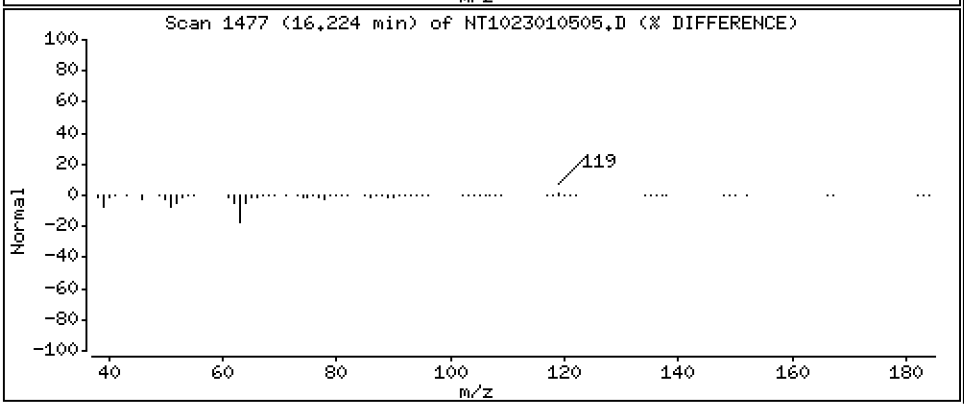












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

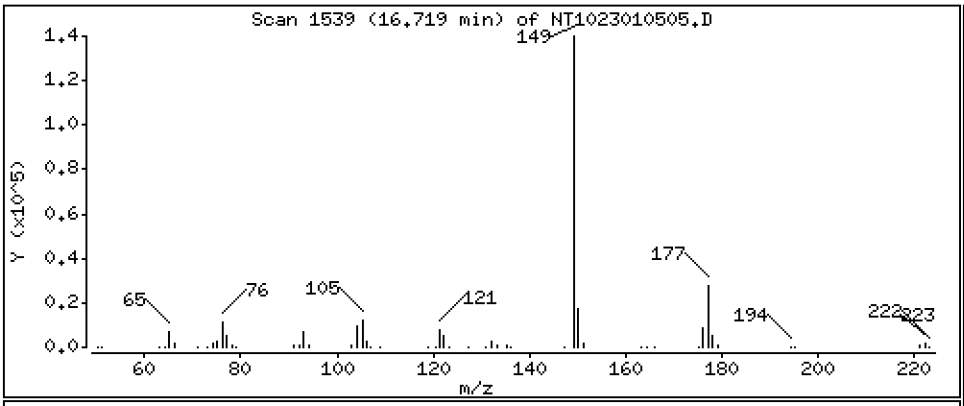
Operator: VTS

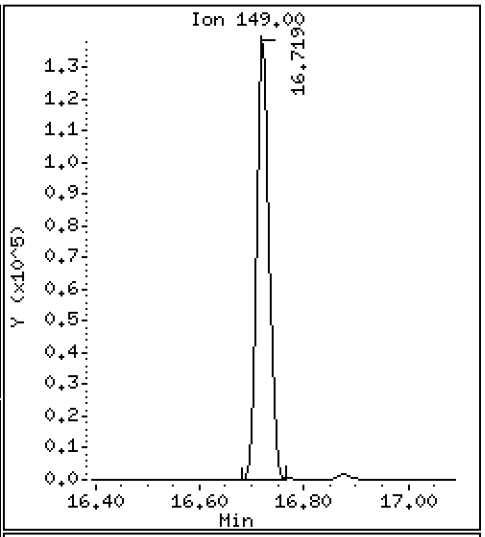
Column phase: ZB-5msi

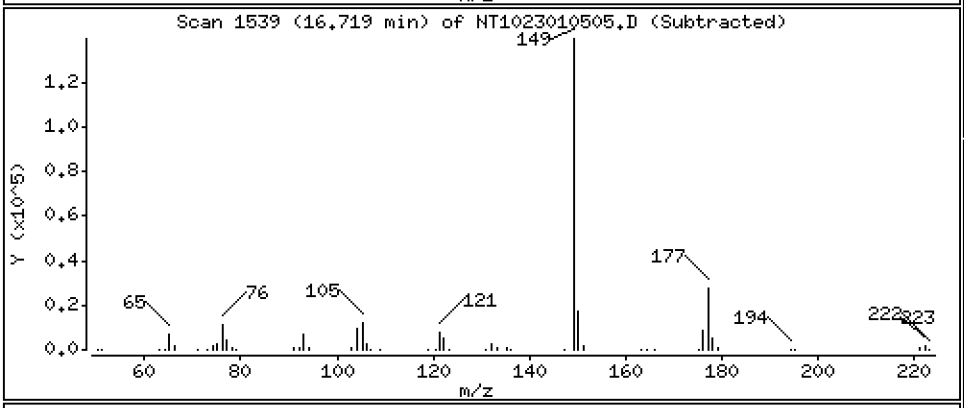
Column diameter: 0.25

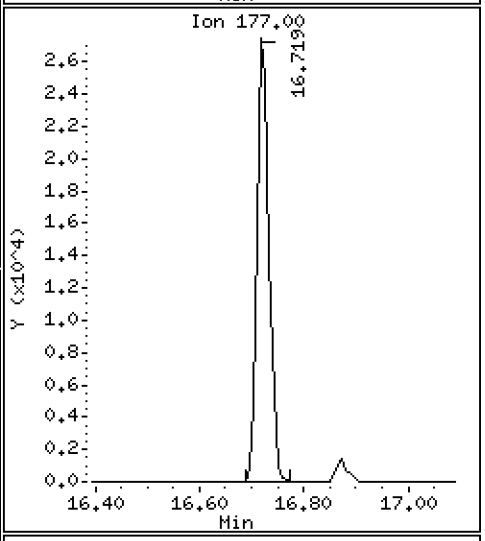
50 Diethylphthalate

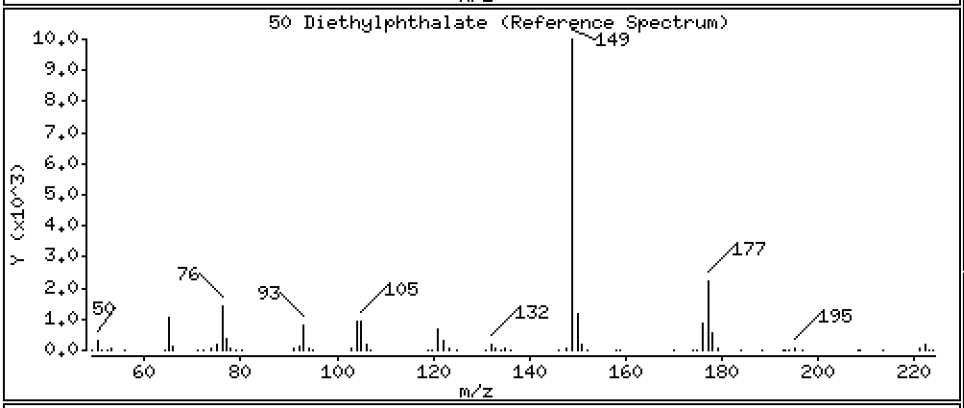
Concentration: 6.088 ug/mL

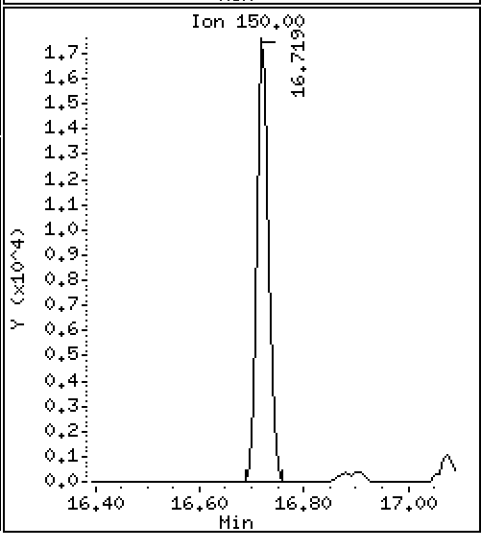


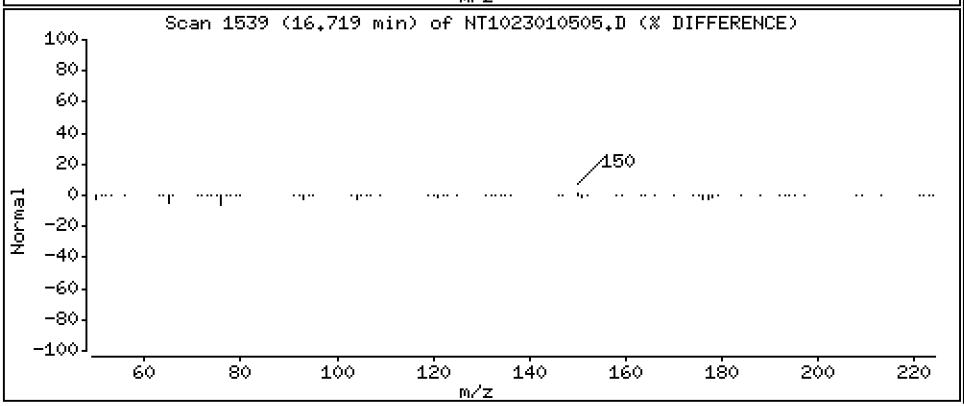












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

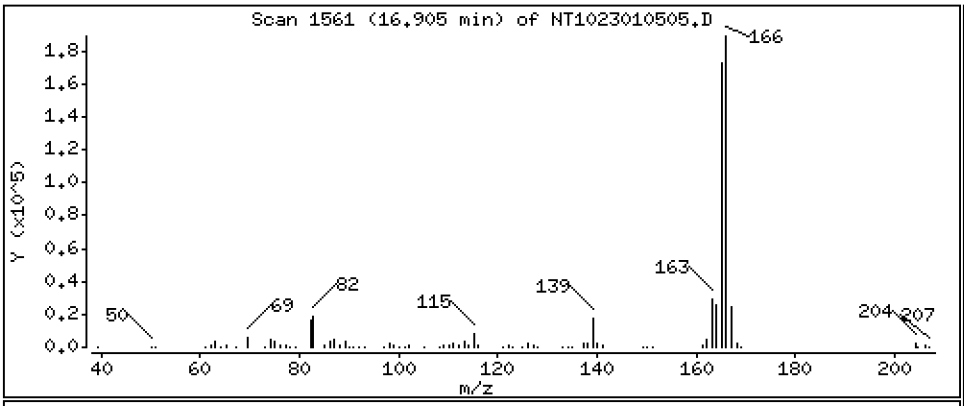
Operator: VTS

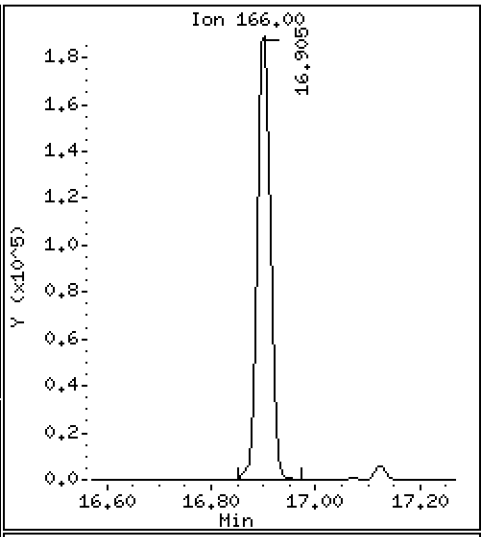
Column phase: ZB-5msi

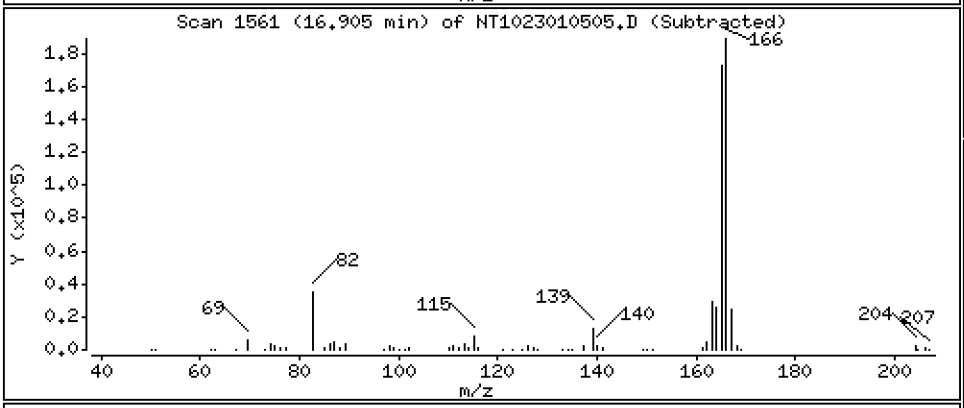
Column diameter: 0.25

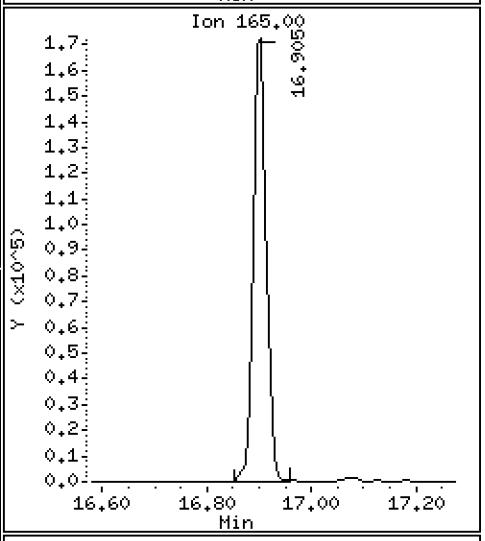
49 Fluorene

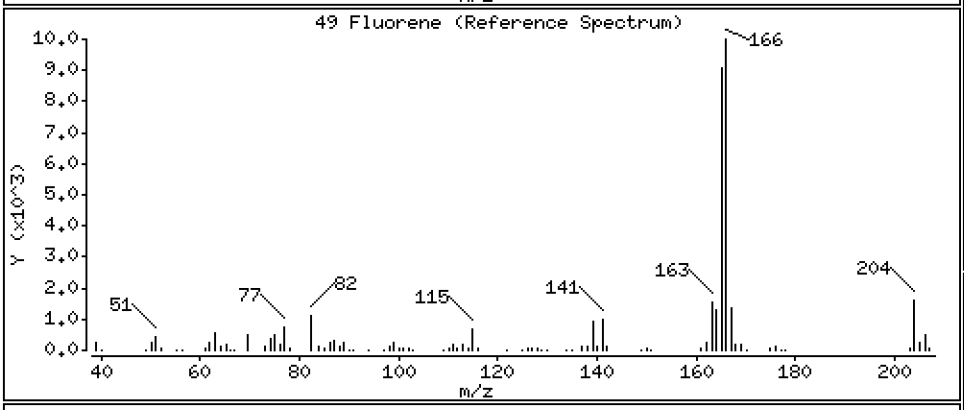
Concentration: 5.146 ug/mL

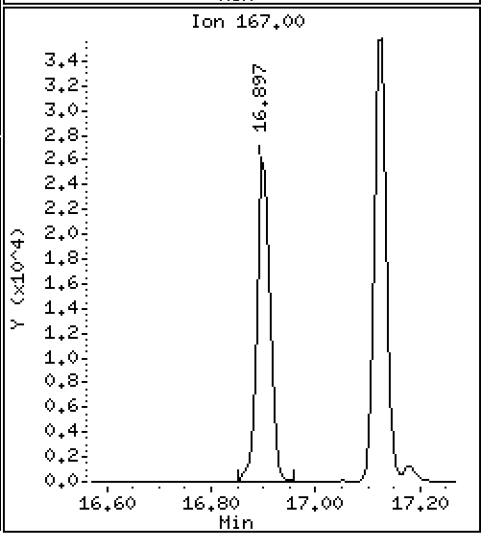


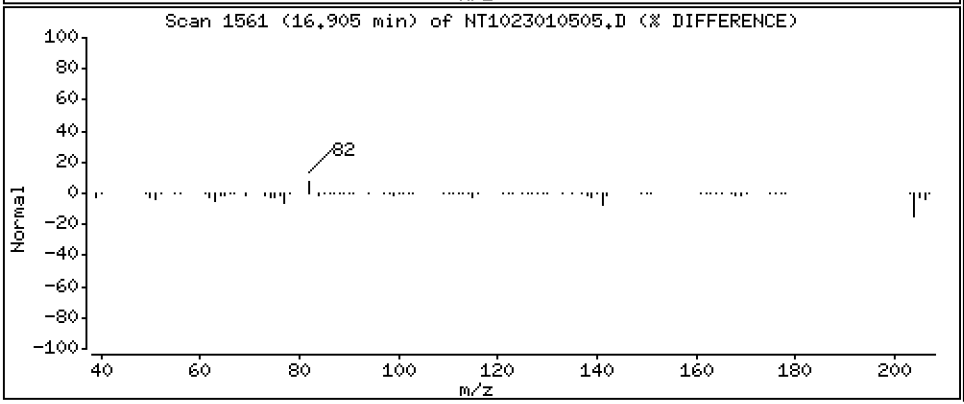












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

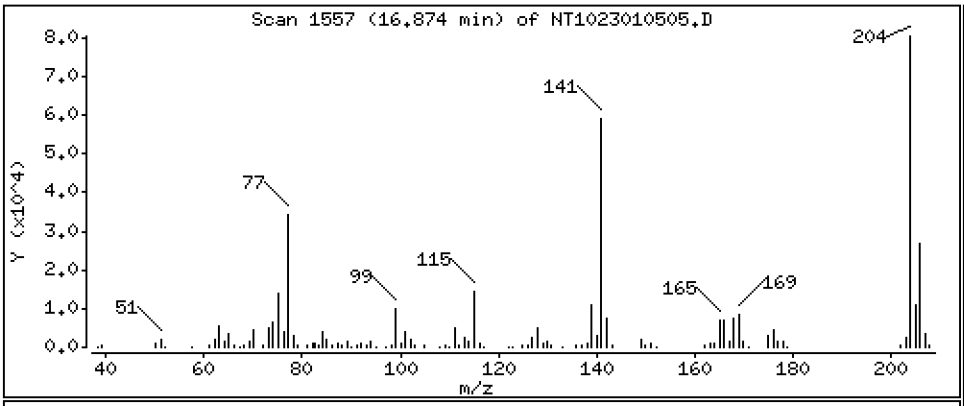
Operator: VTS

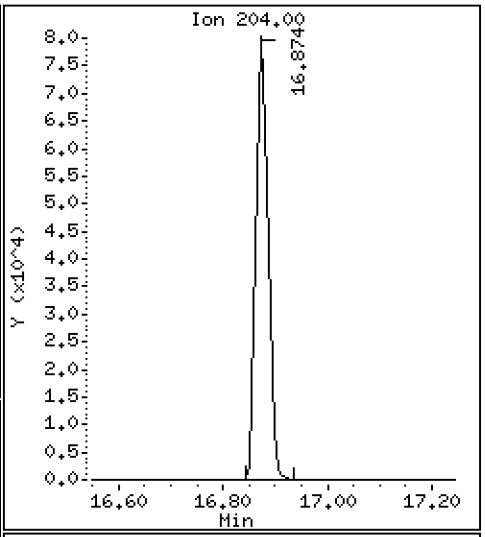
Column phase: ZB-5msi

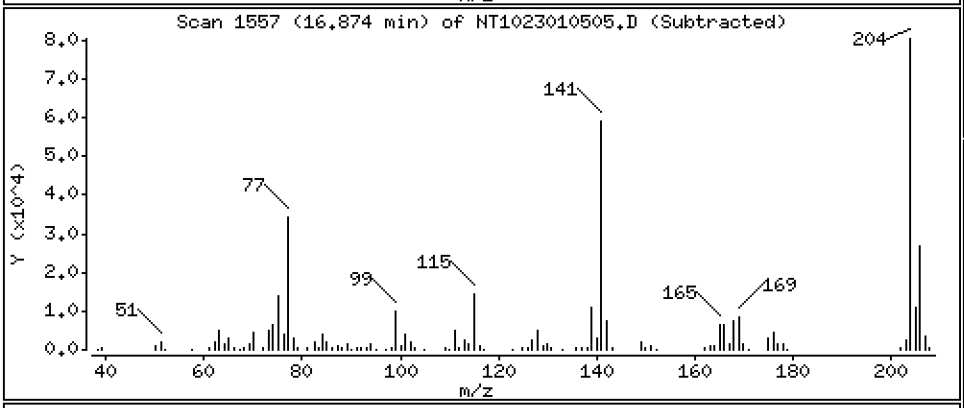
Column diameter: 0.25

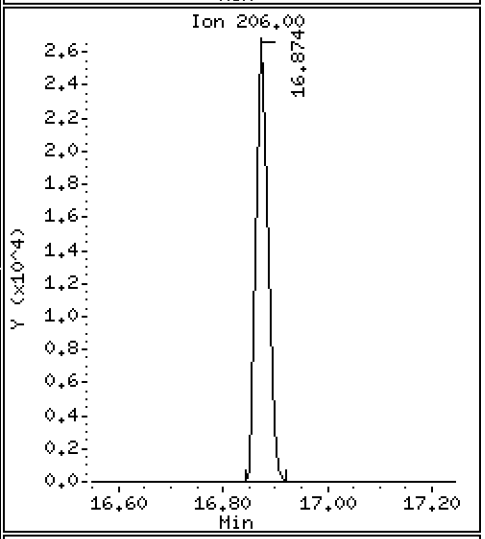
51 4-Chlorophenyl-phenylether

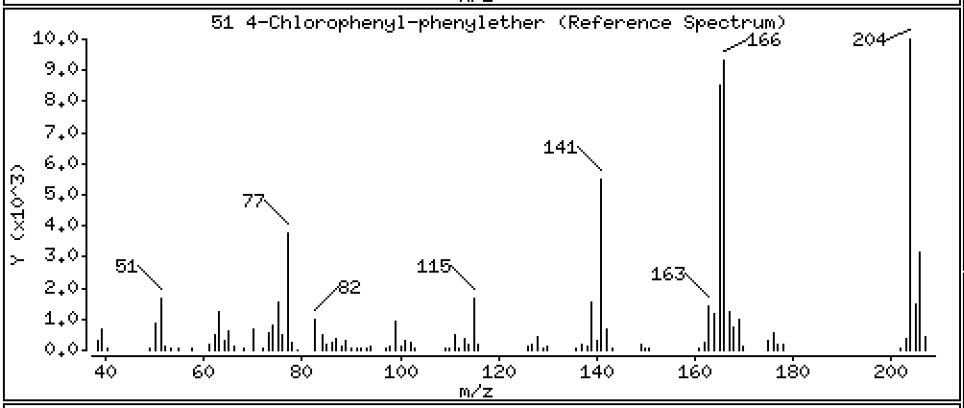
Concentration: 4.717 ug/mL

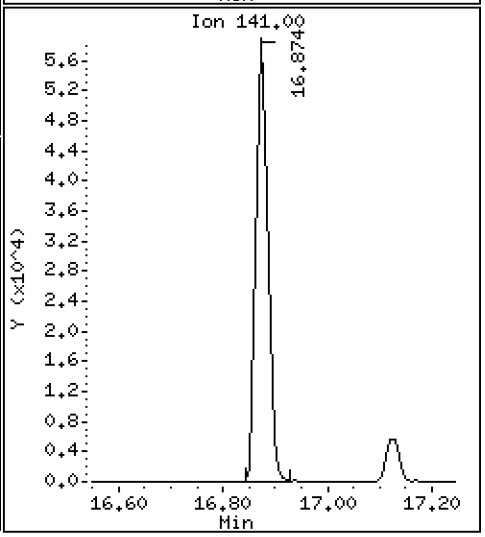


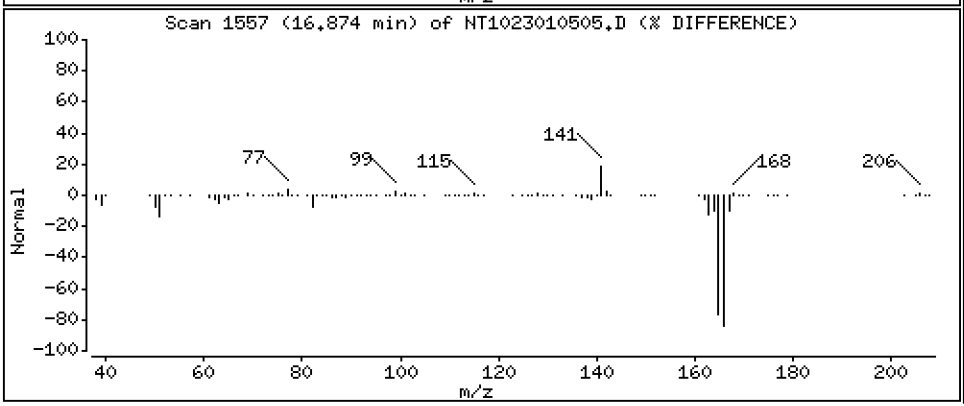












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

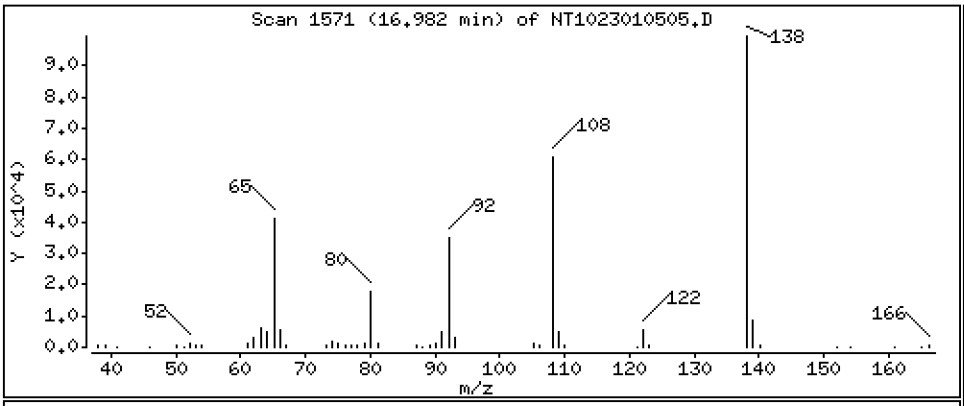
Operator: VTS

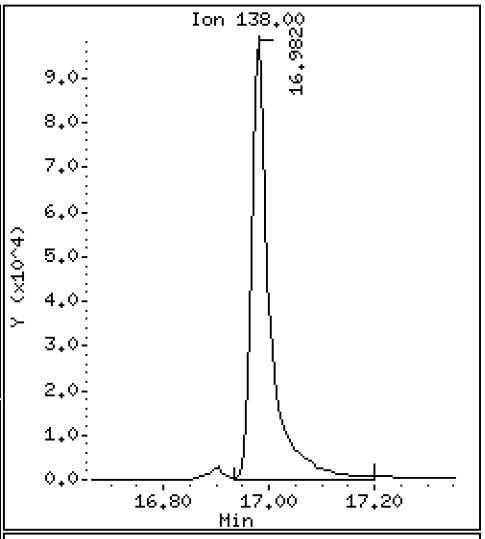
Column phase: ZB-5msi

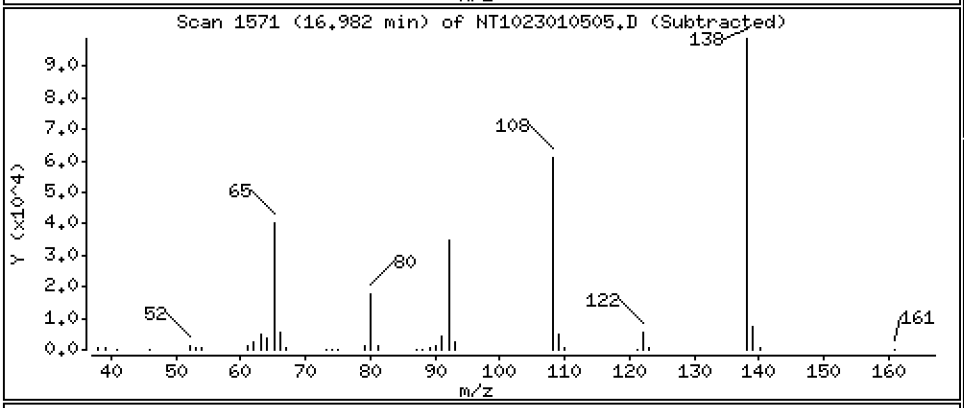
Column diameter: 0.25

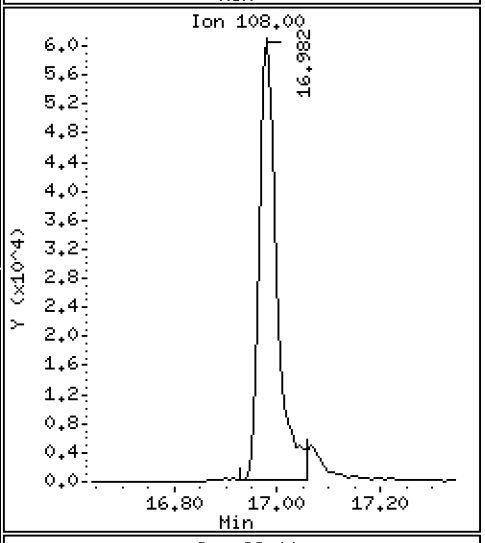
52 4-Nitroaniline

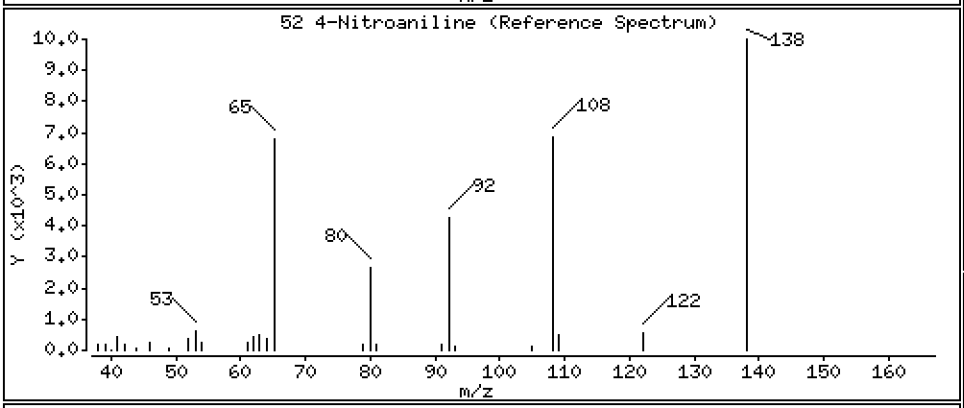
Concentration: 14.77 ug/mL

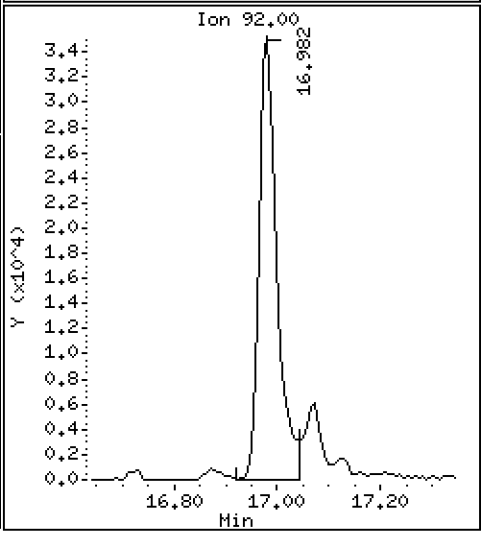


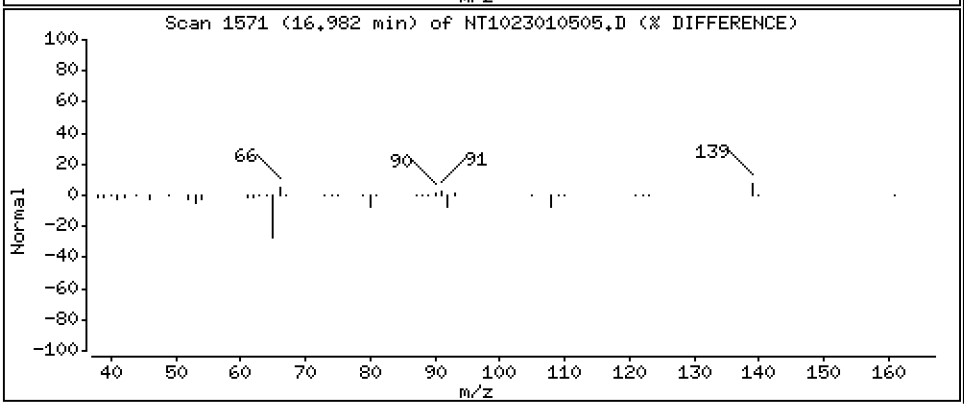












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

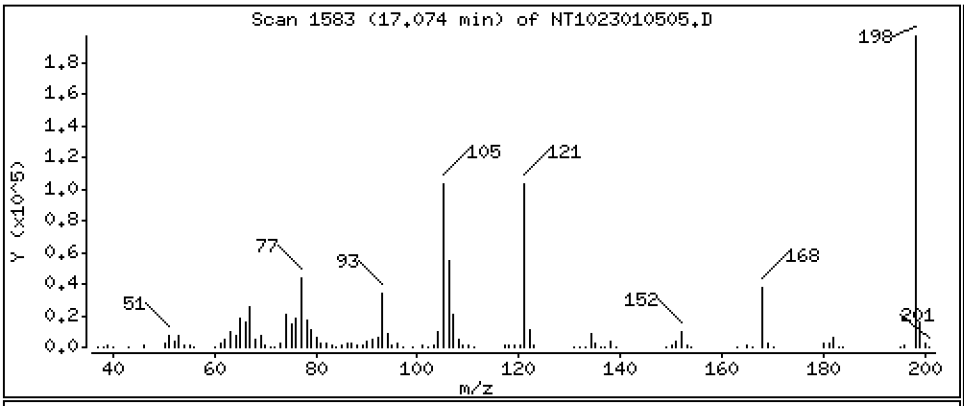
Operator: VTS

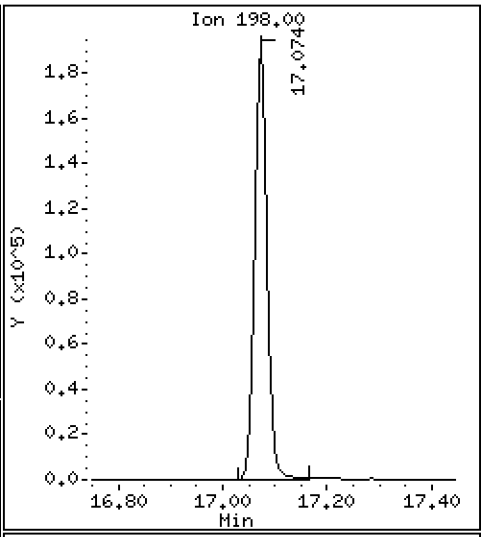
Column phase: ZB-5msi

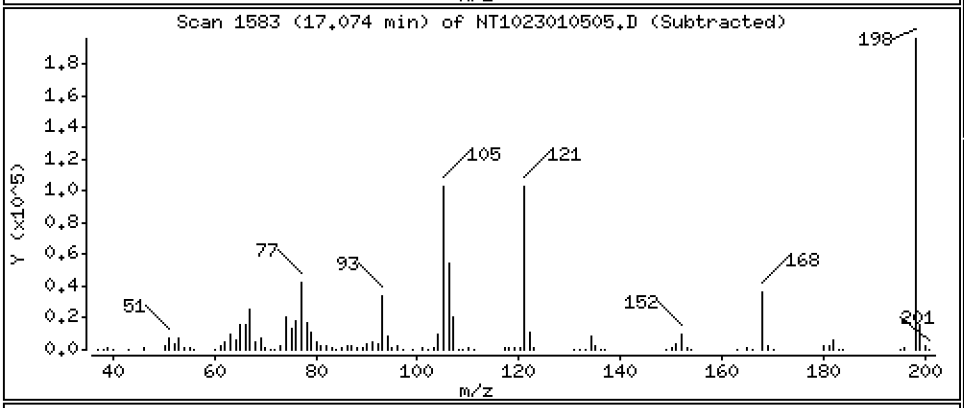
Column diameter: 0.25

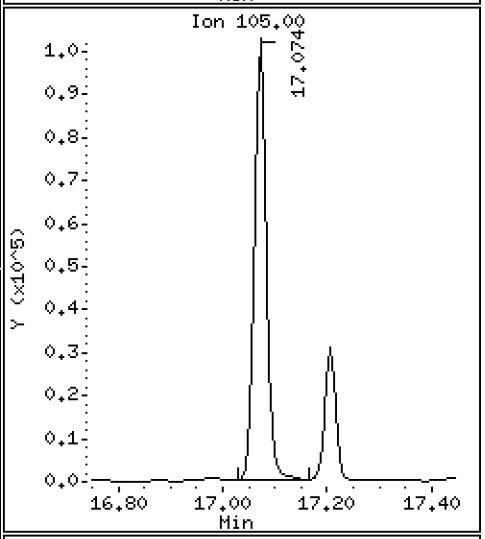
53 4,6-Dinitro-2-methylphenol

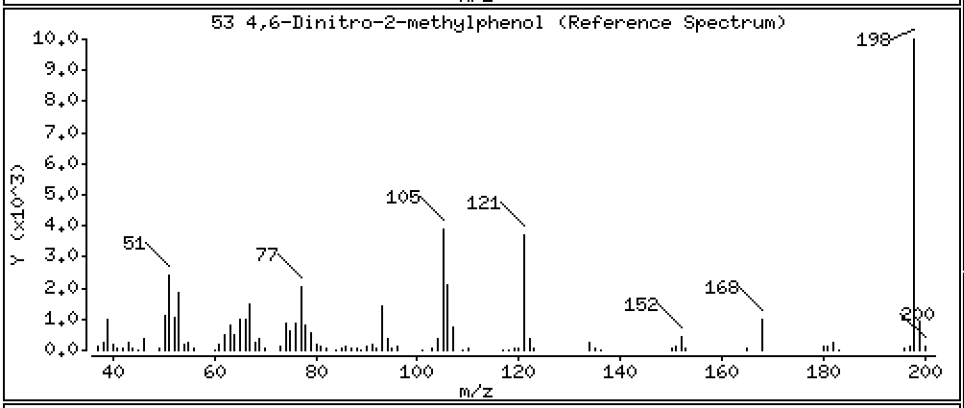
Concentration: 35.03 ug/mL

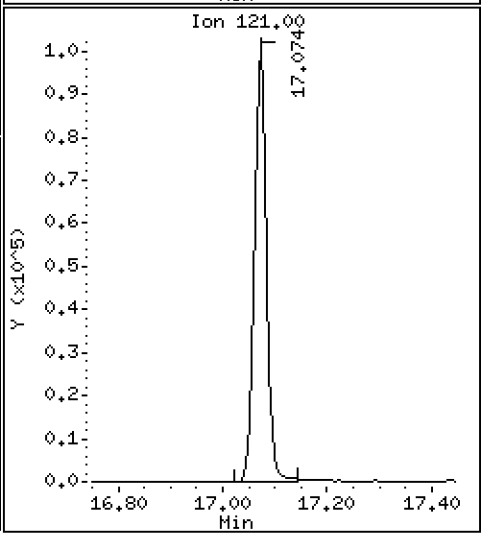


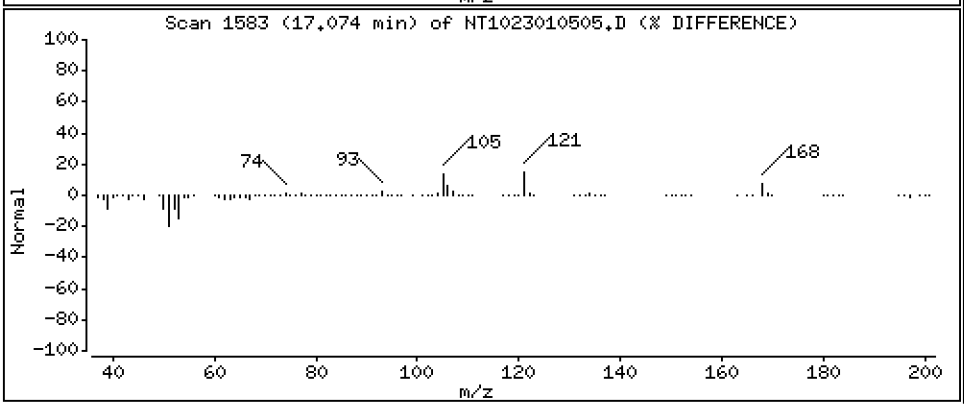












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

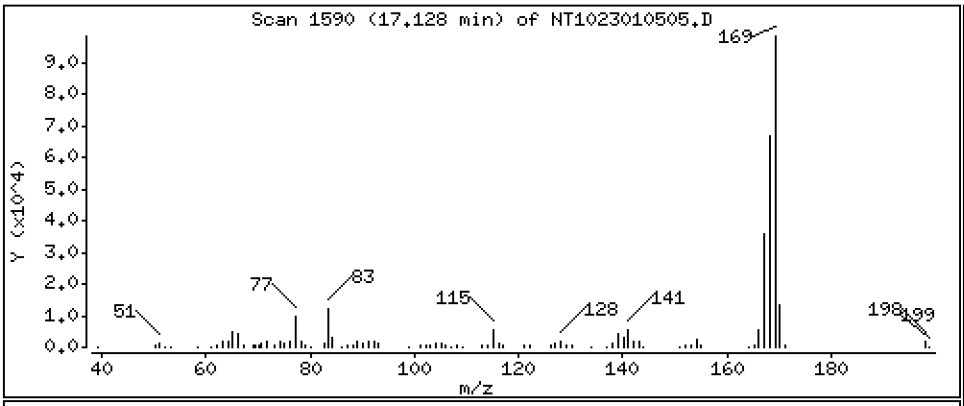
Operator: VTS

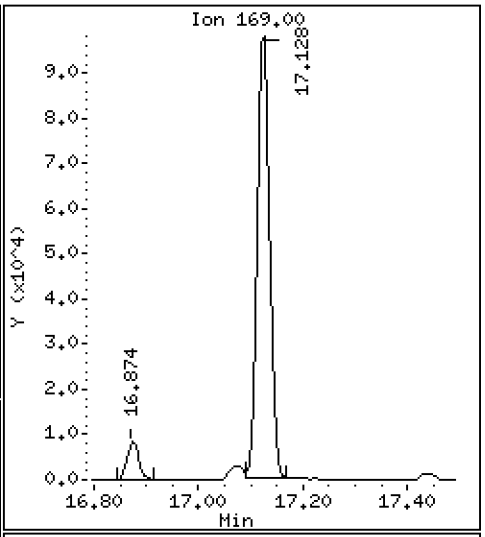
Column phase: ZB-5msi

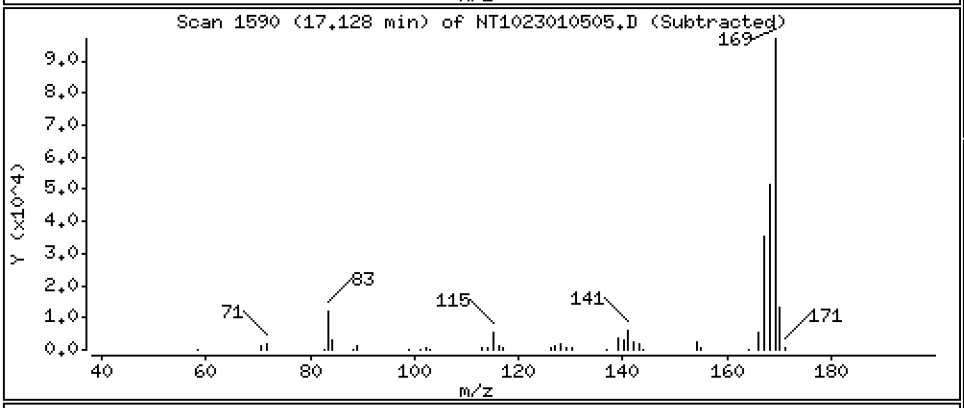
Column diameter: 0.25

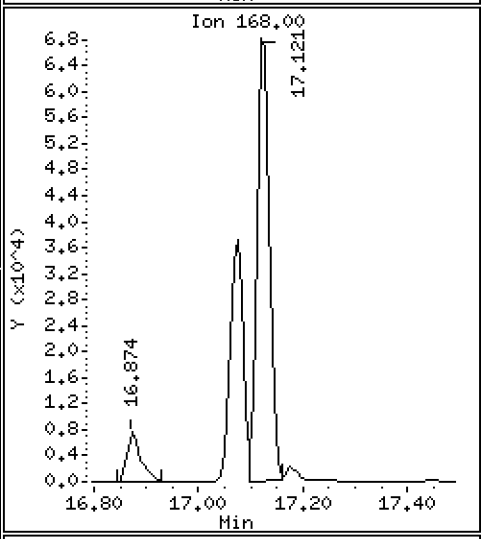
54 N-Nitrosodiphenylamine

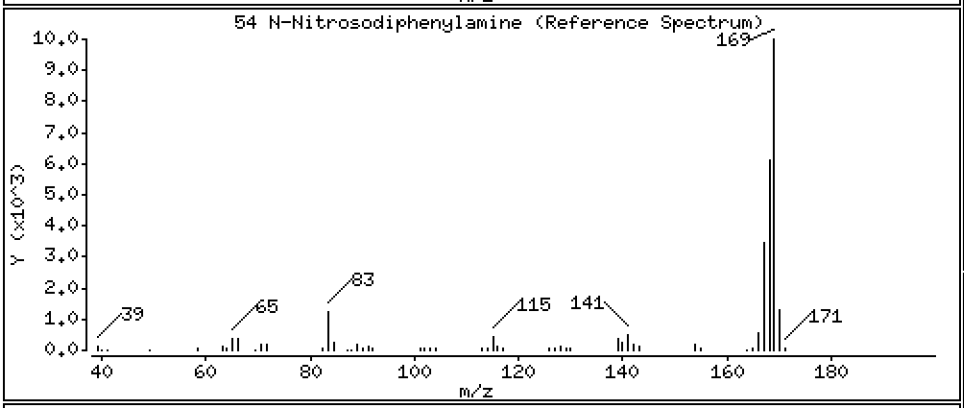
Concentration: 4.241 ug/mL

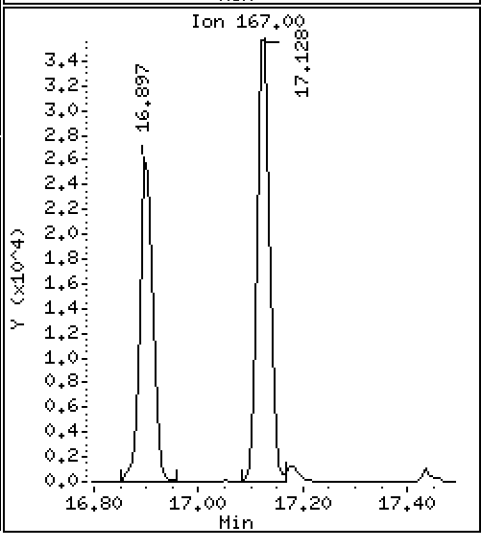


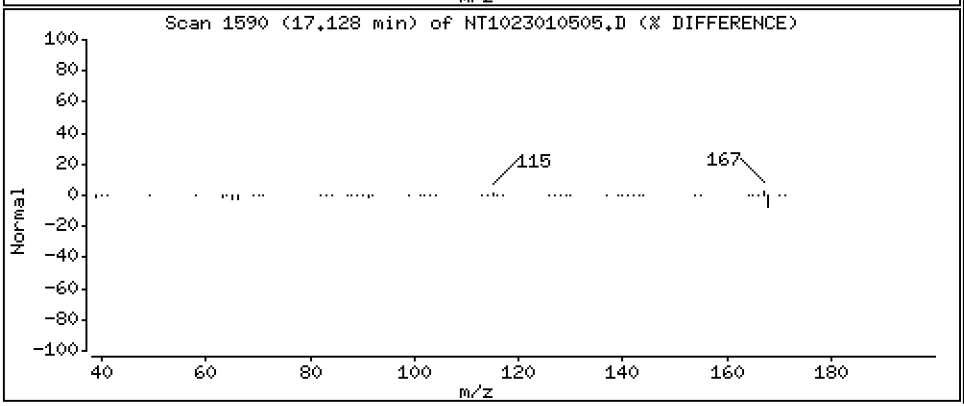












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

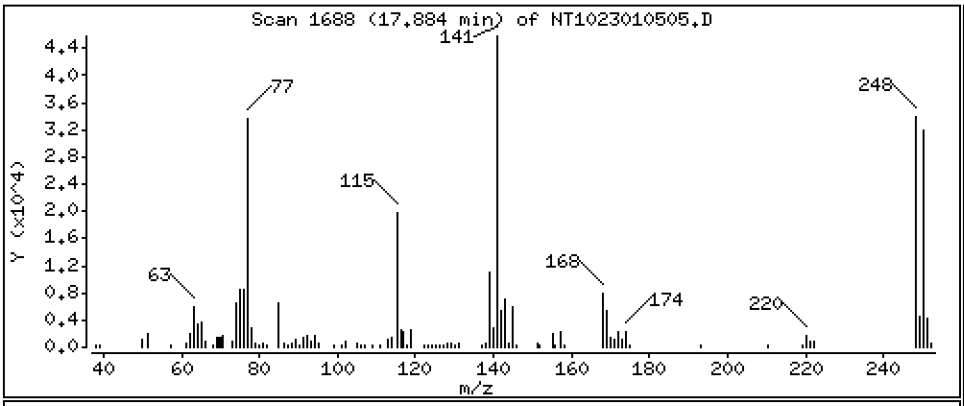
Operator: VTS

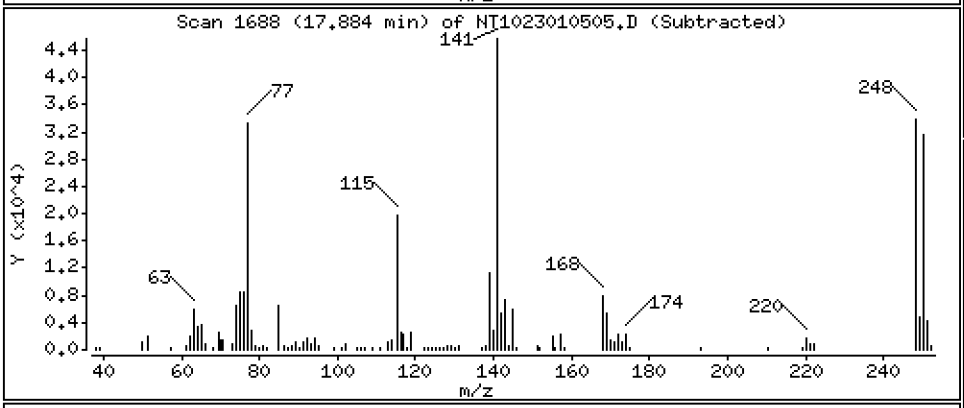
Column phase: ZB-5msi

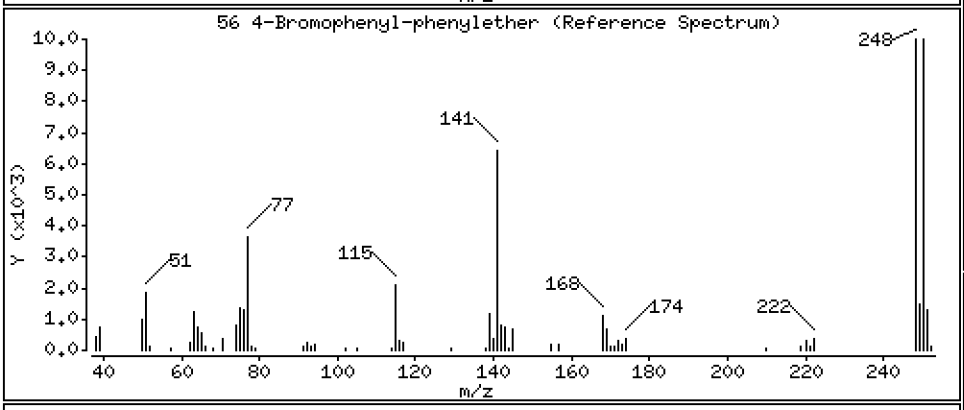
Column diameter: 0.25

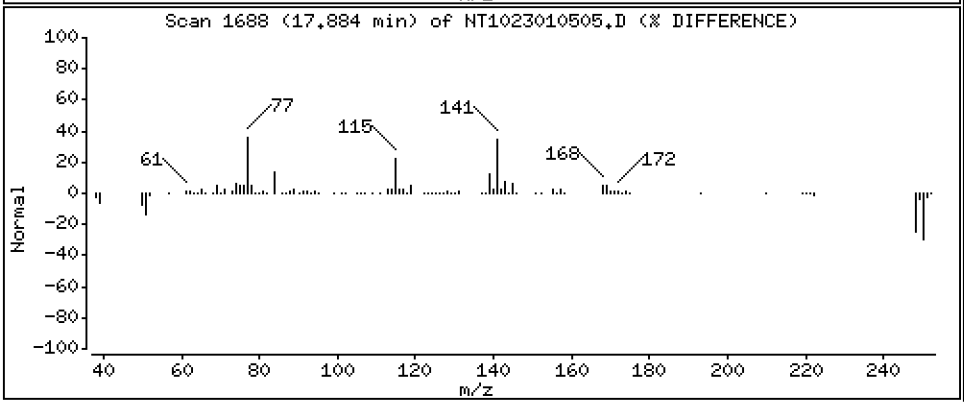
56 4-Bromophenyl-phenylether

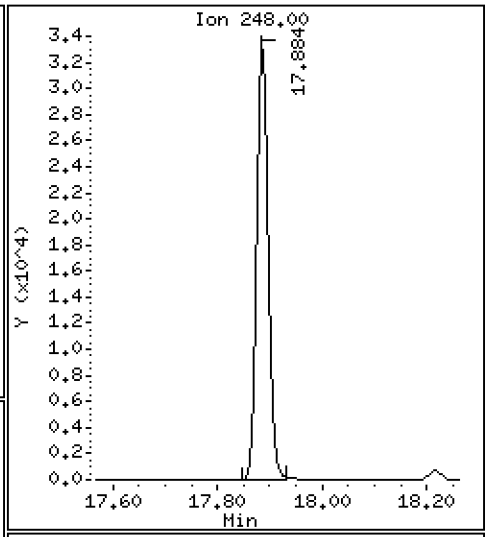
Concentration: 5.385 ug/mL

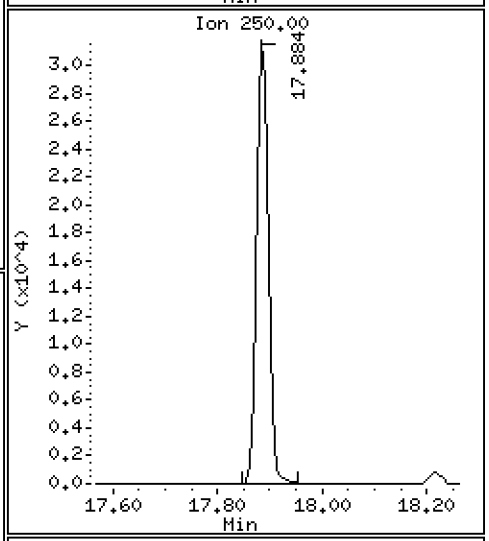


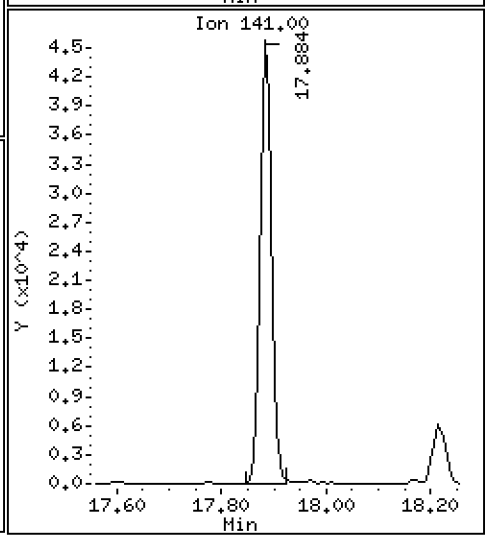












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

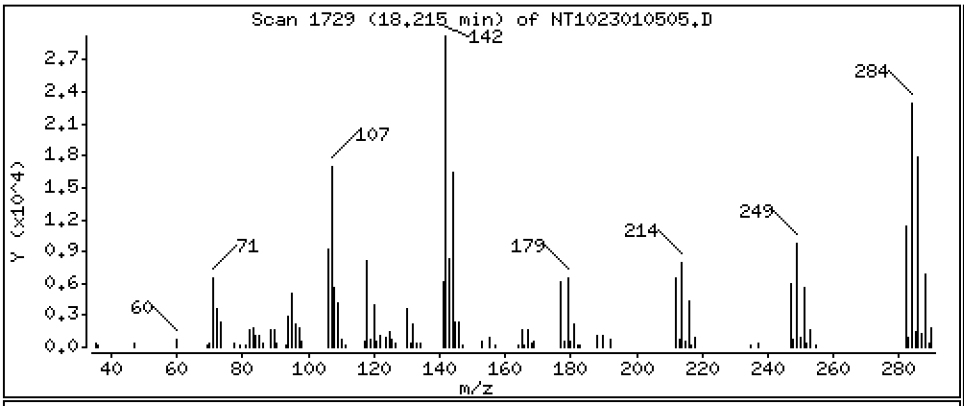
Operator: VTS

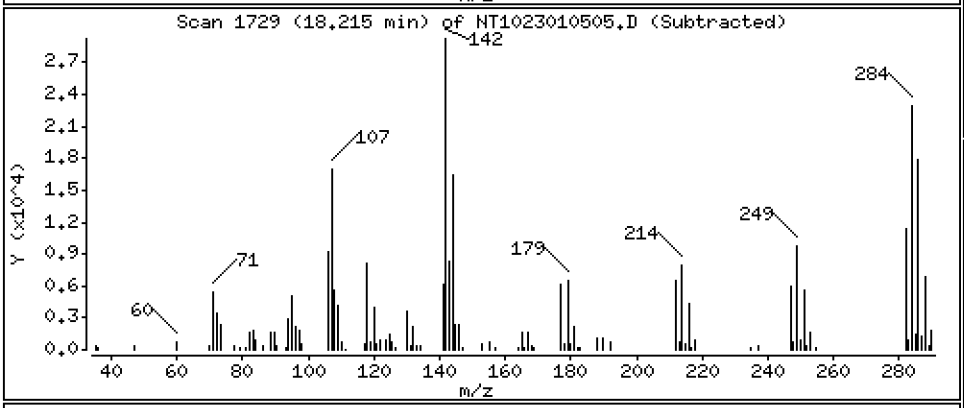
Column phase: ZB-5msi

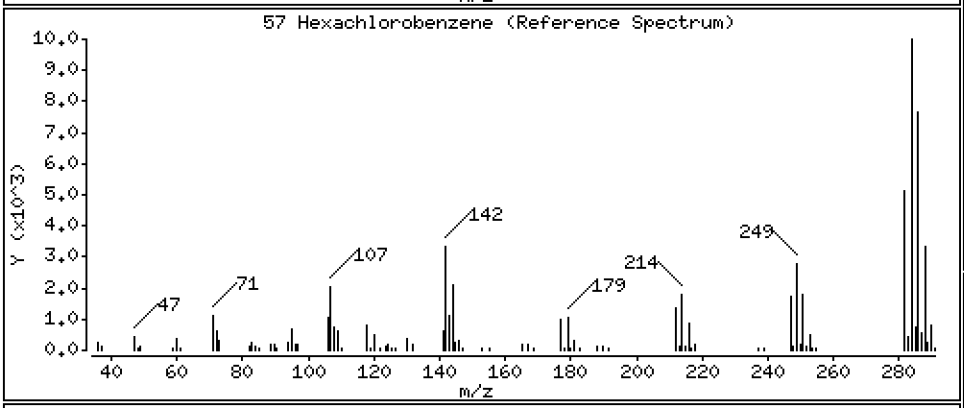
Column diameter: 0.25

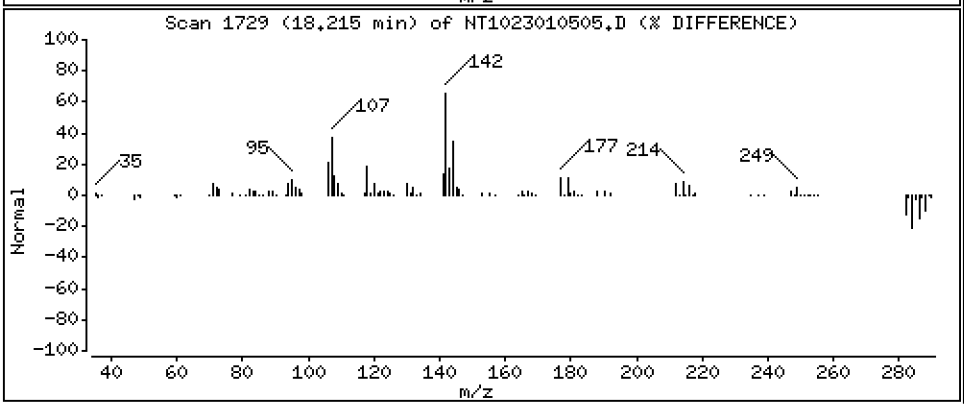
57 Hexachlorobenzene

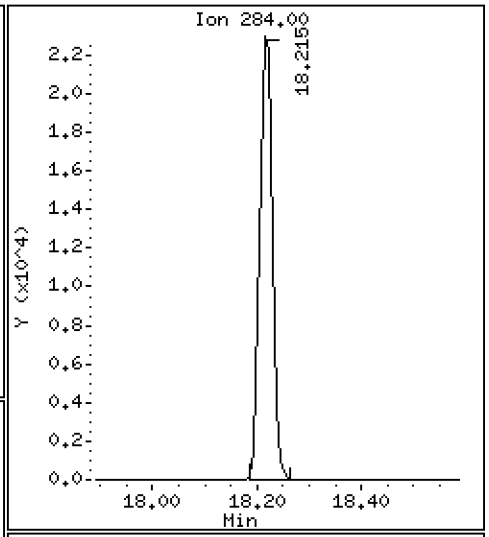
Concentration: 4.364 ug/mL

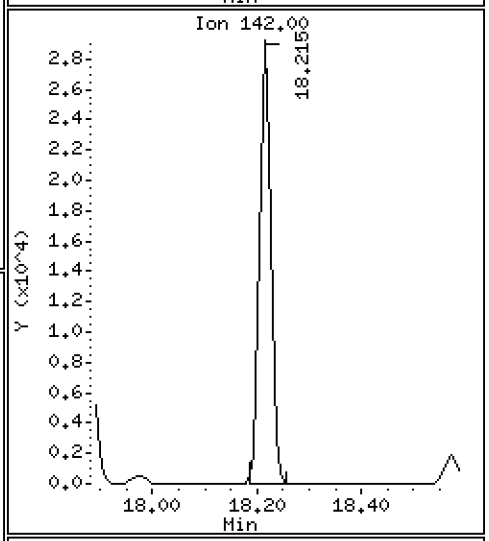


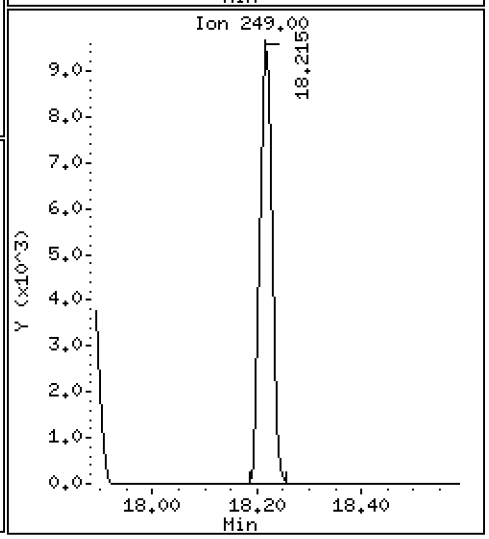












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

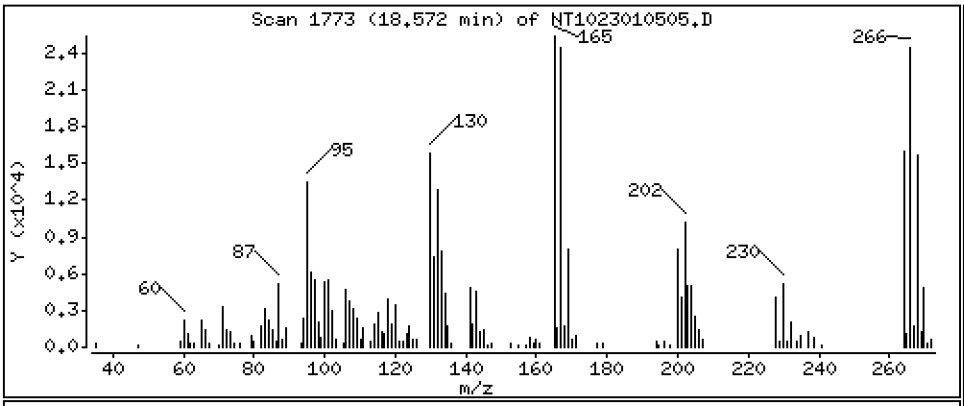
Operator: VTS

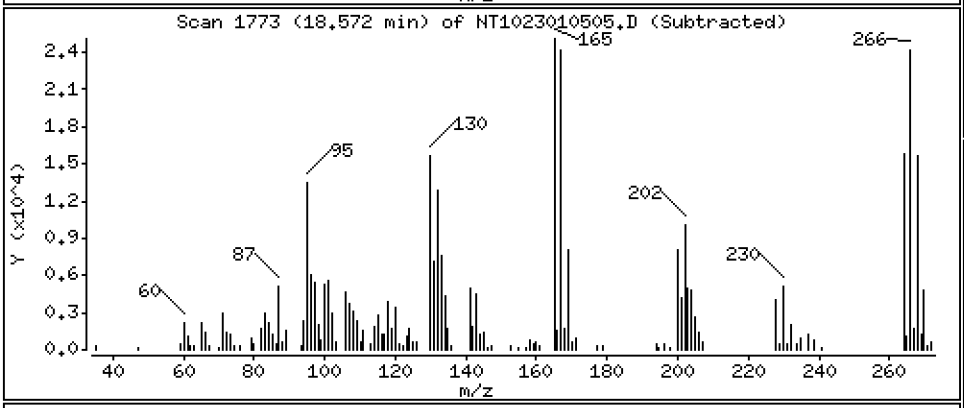
Column phase: ZB-5msi

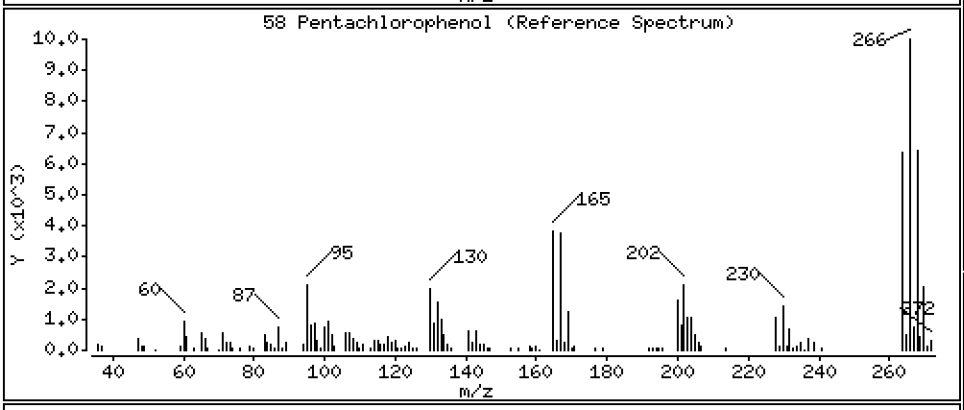
Column diameter: 0.25

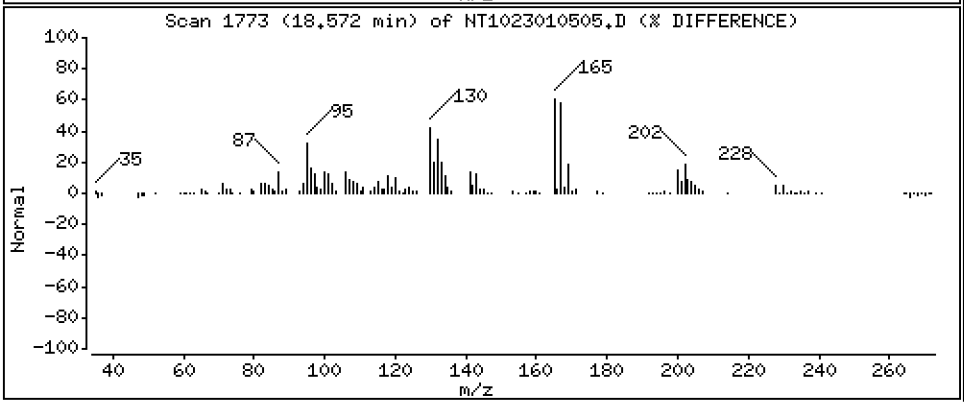
58 Pentachlorophenol

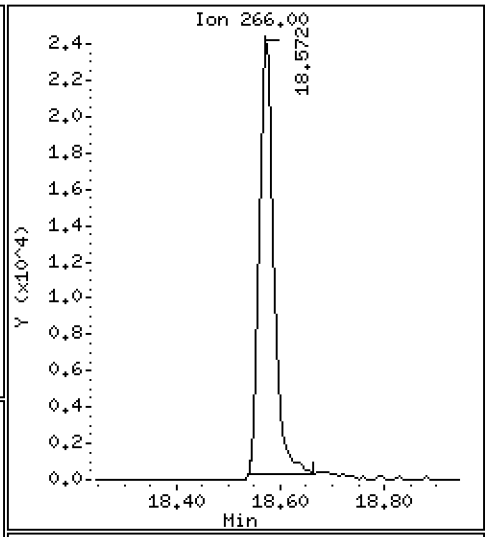
Concentration: 22.16 ug/mL

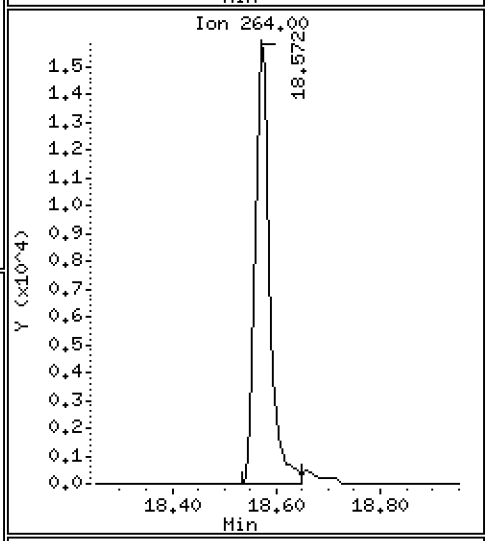


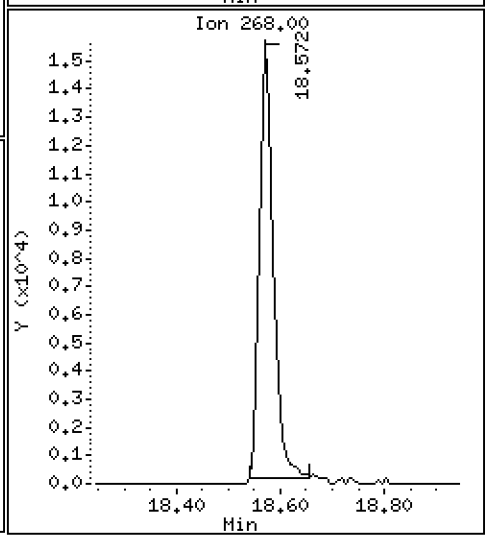












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

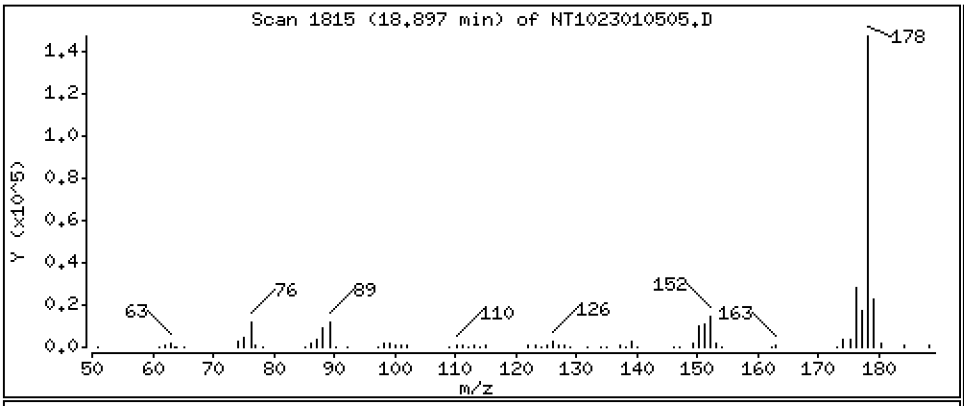
Operator: VTS

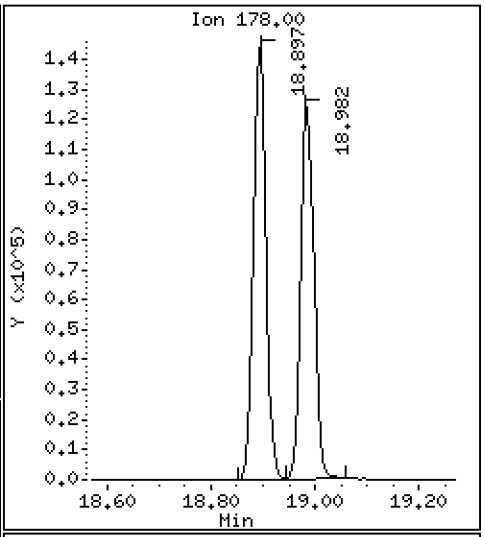
Column phase: ZB-5msi

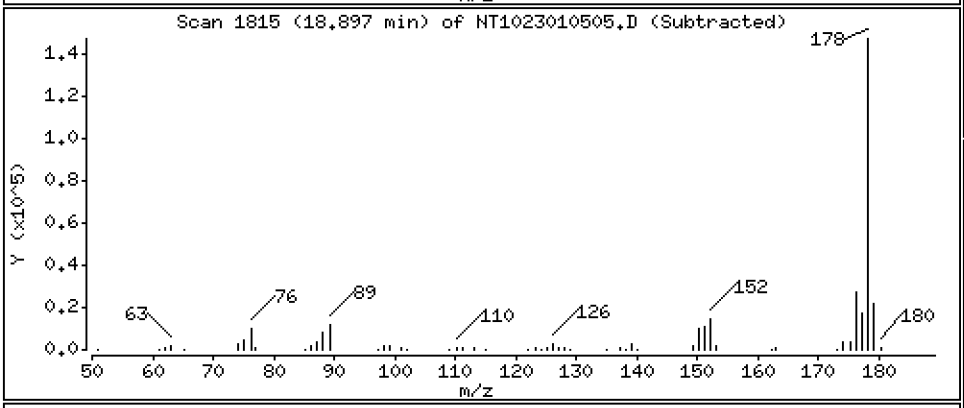
Column diameter: 0.25

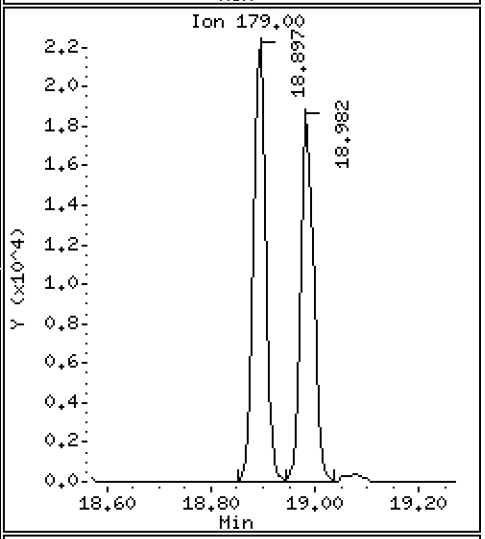
60 Phenanthrene

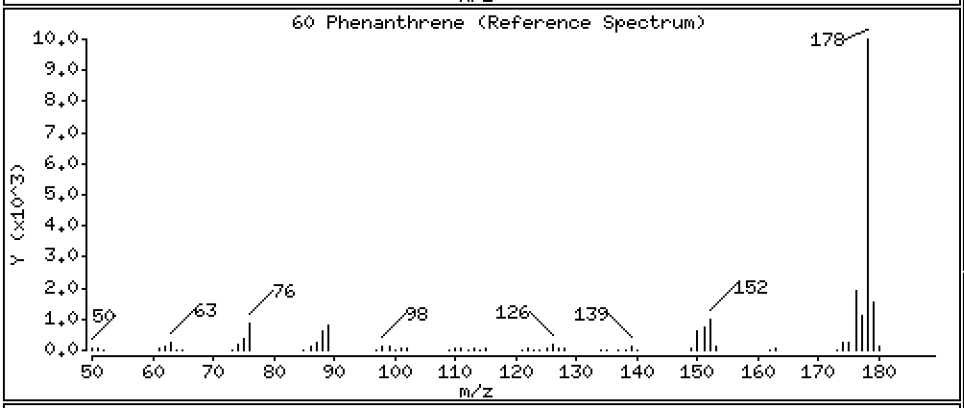
Concentration: 5.048 ug/mL

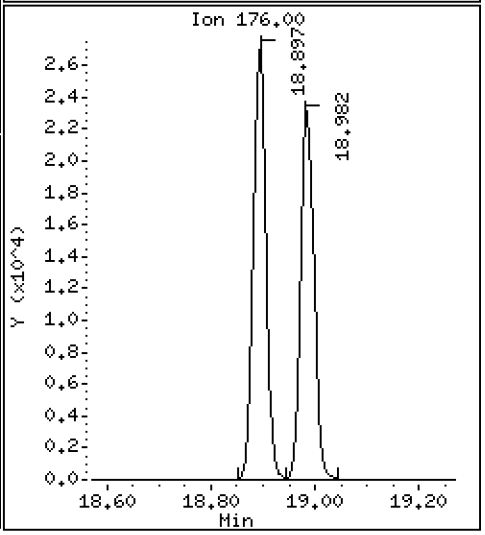


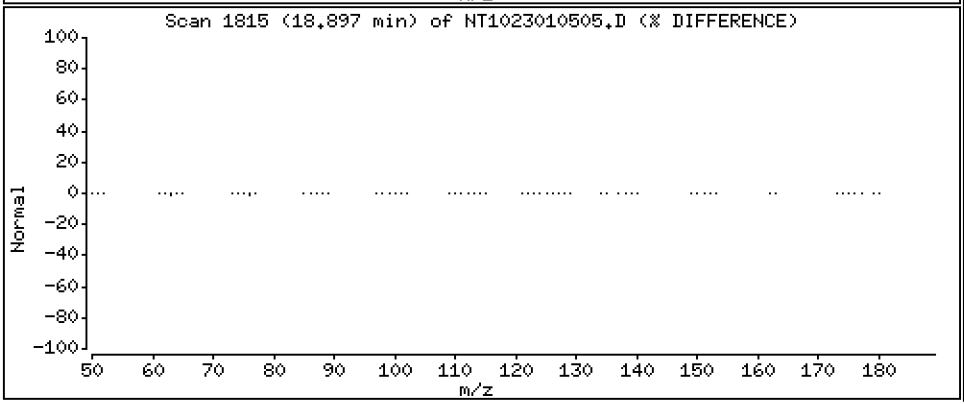












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

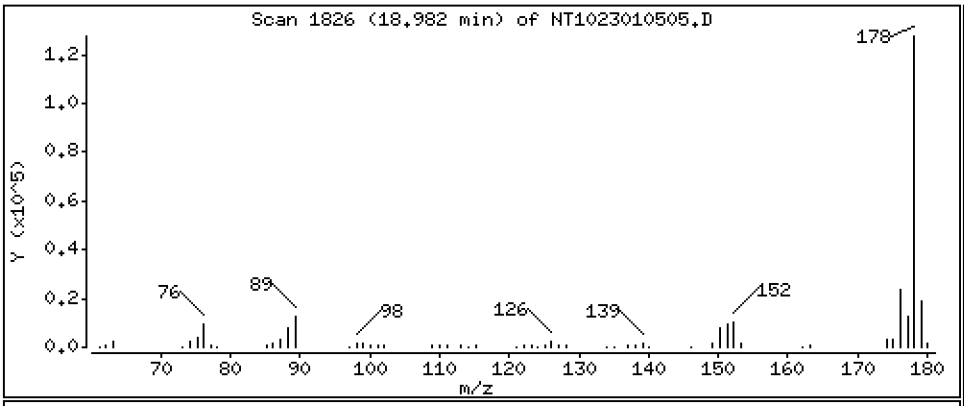
Operator: VTS

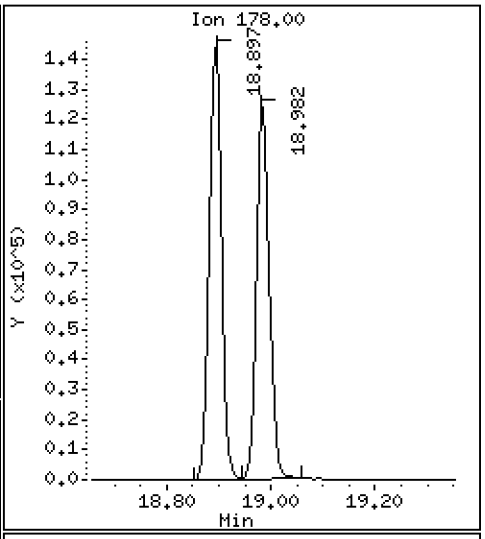
Column phase: ZB-5msi

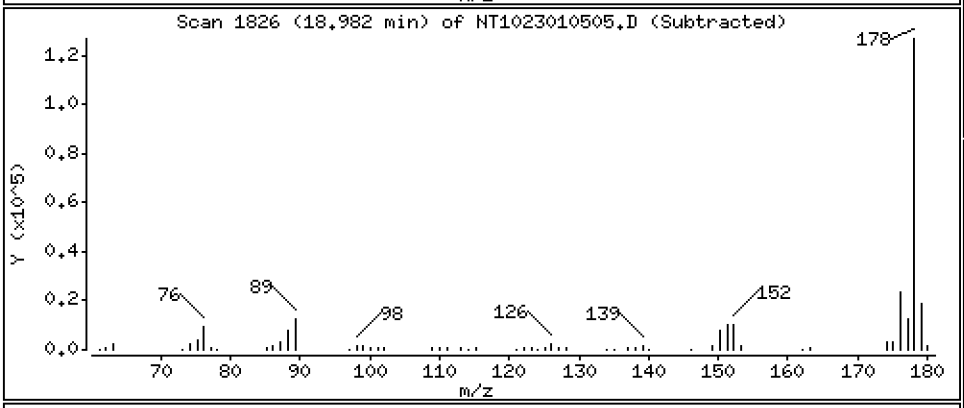
Column diameter: 0.25

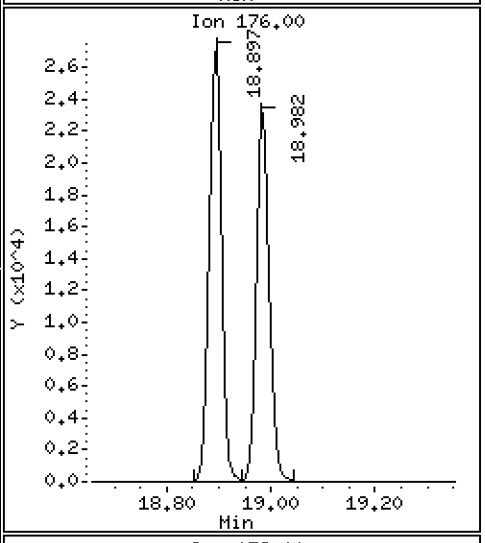
61 Anthracene

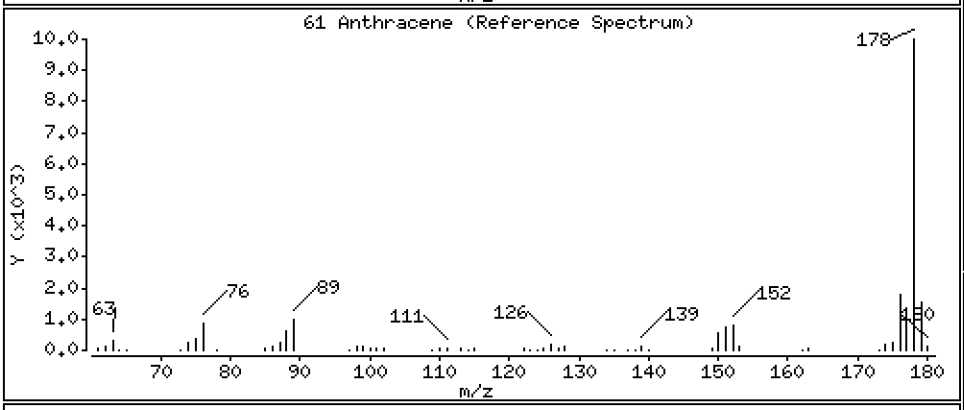
Concentration: 4.374 ug/mL

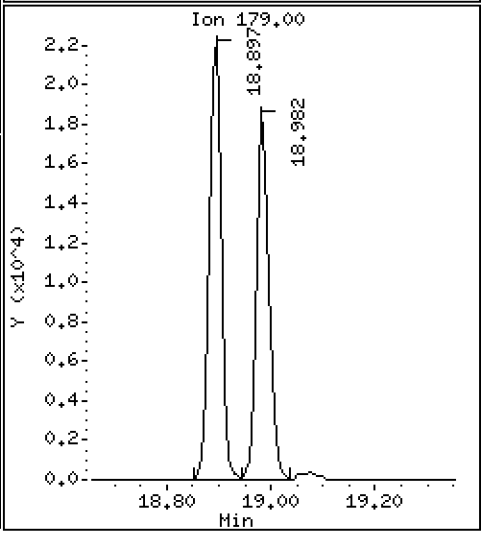


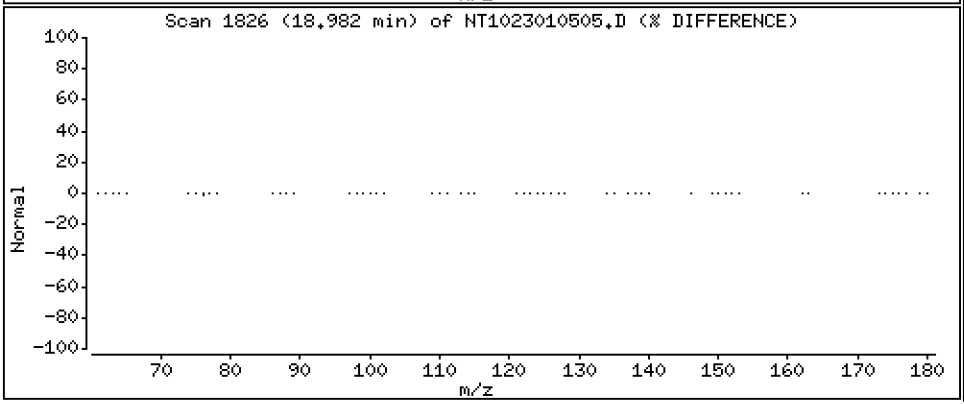












Date : 05-JAN-2023 15:56

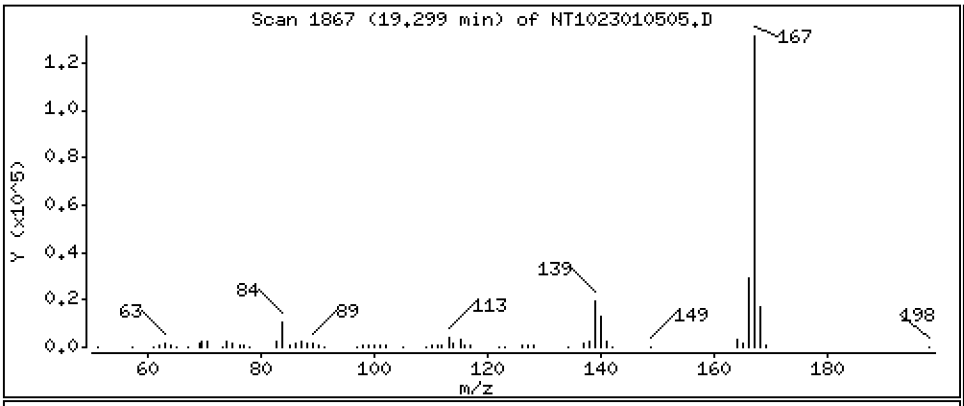
Client ID: Instrument: nt10.i

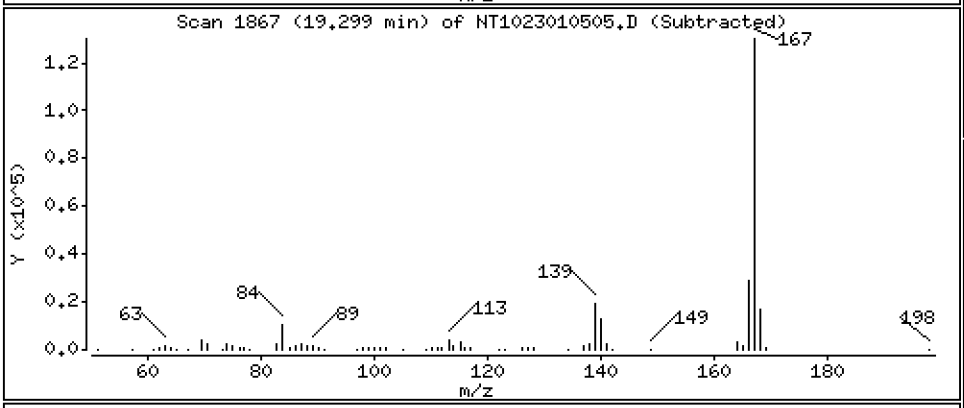
Sample Info: BKL0489-BS1

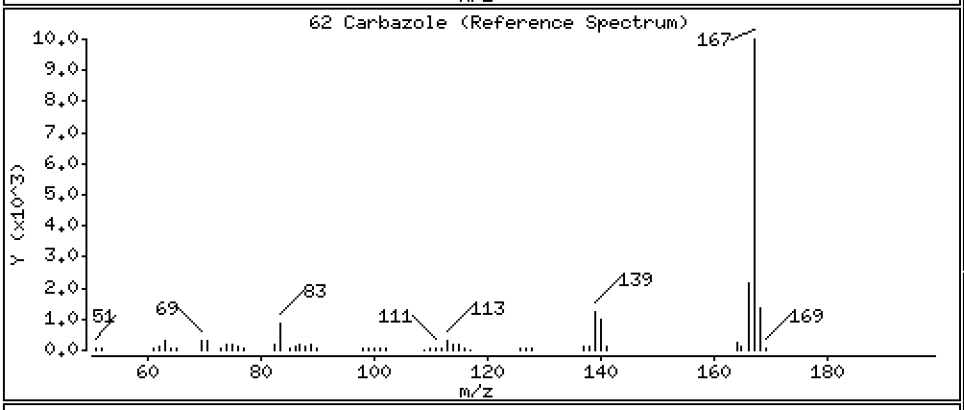
Operator: VTS

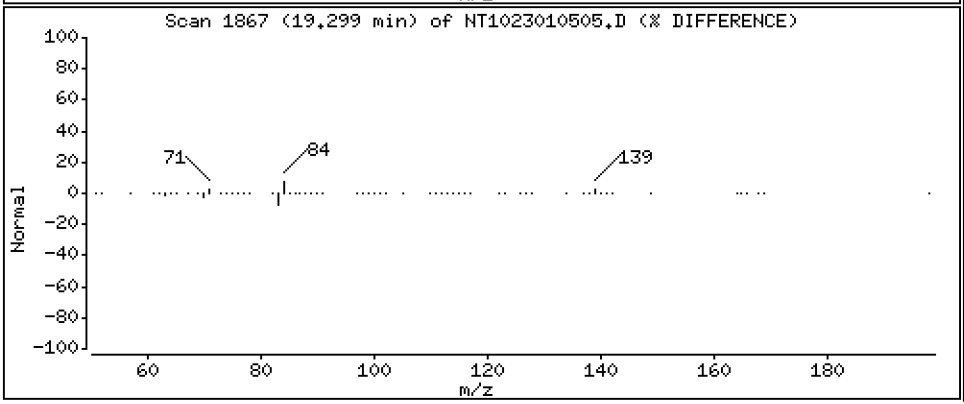
Column phase: ZB-5msi Column diameter: 0.25

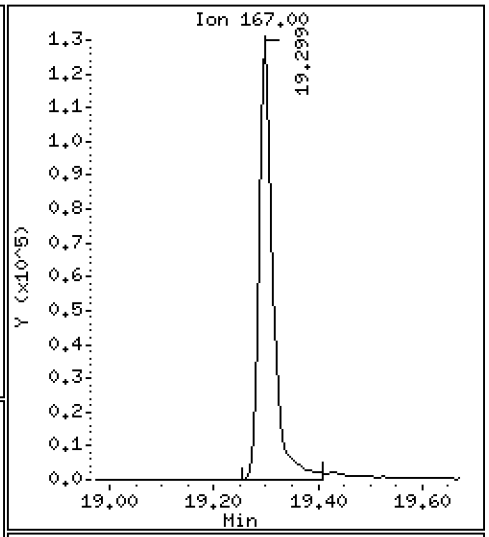
62 Carbazole Concentration: 4.650 ug/mL

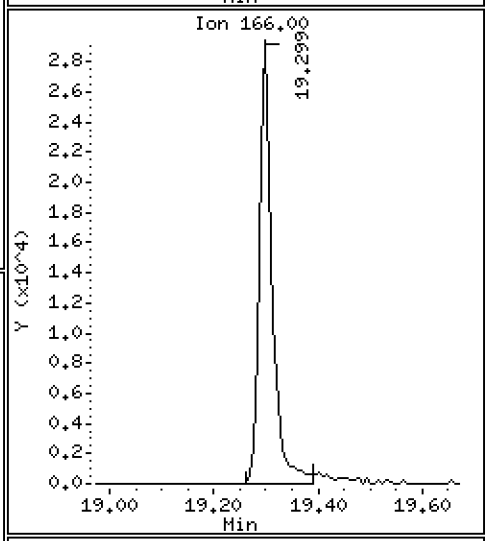


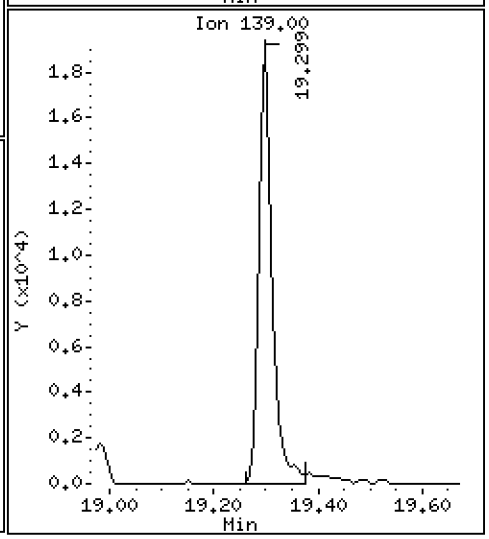












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

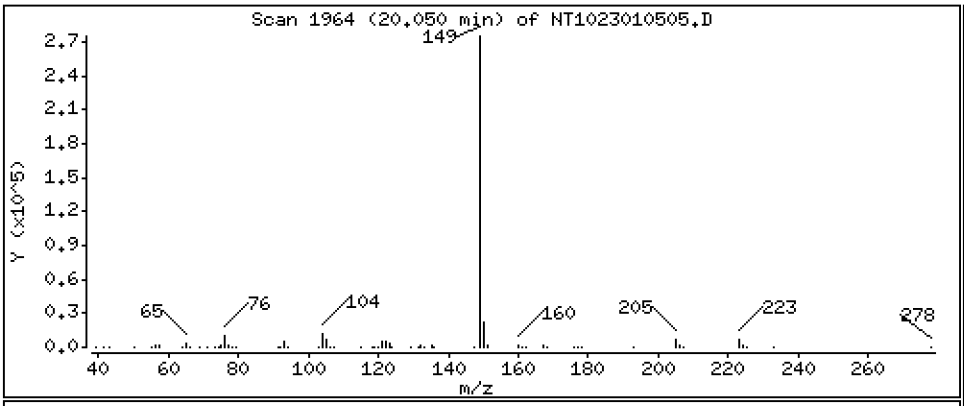
Operator: VTS

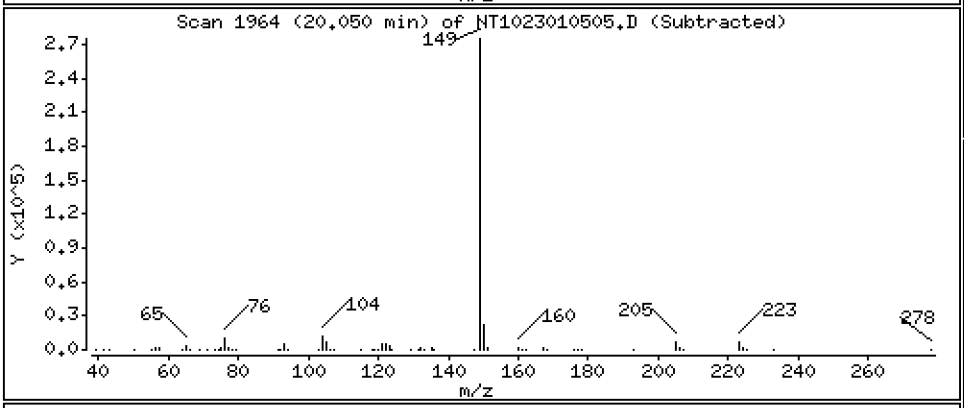
Column phase: ZB-5msi

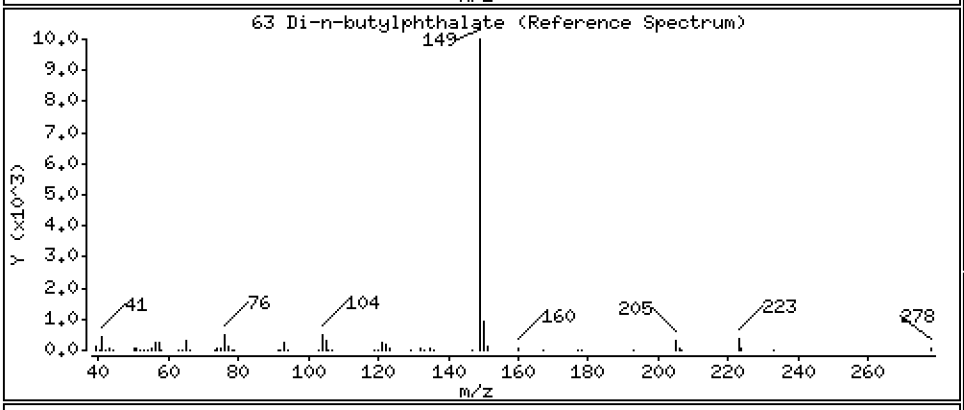
Column diameter: 0.25

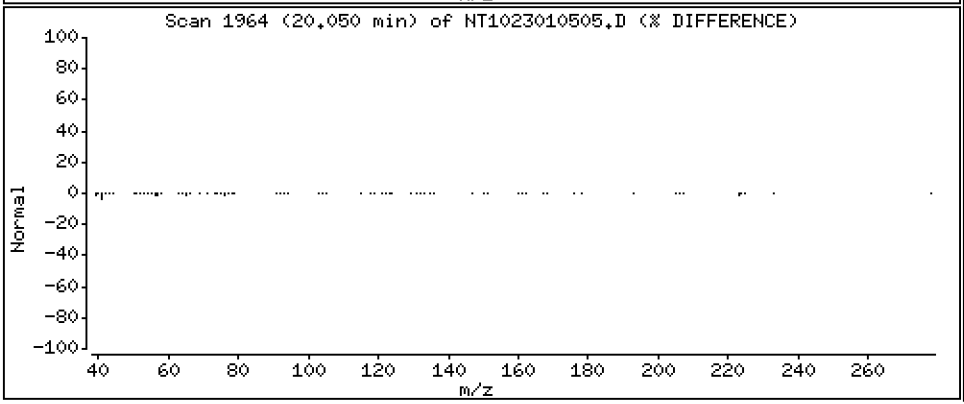
63 Di-n-butylphthalate

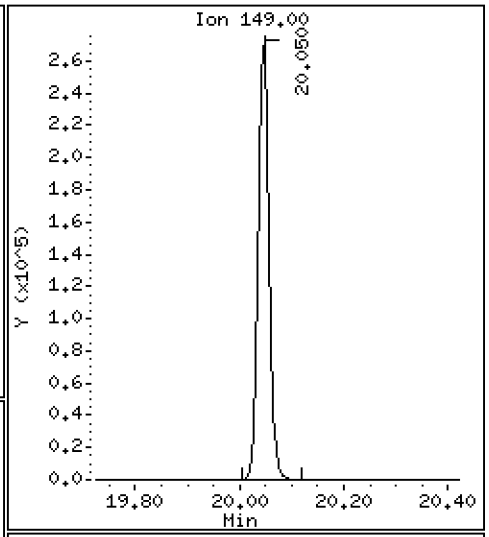
Concentration: 5.602 ug/mL

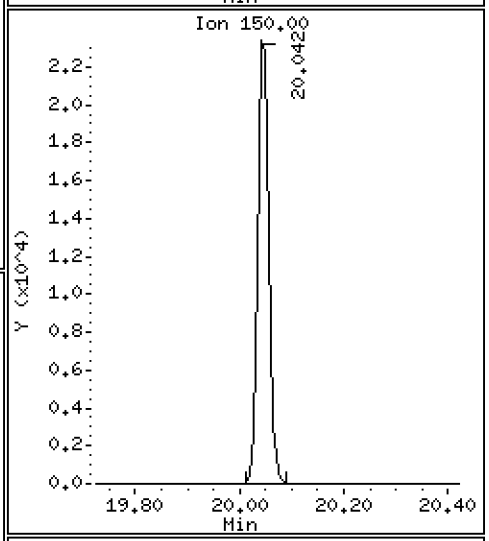


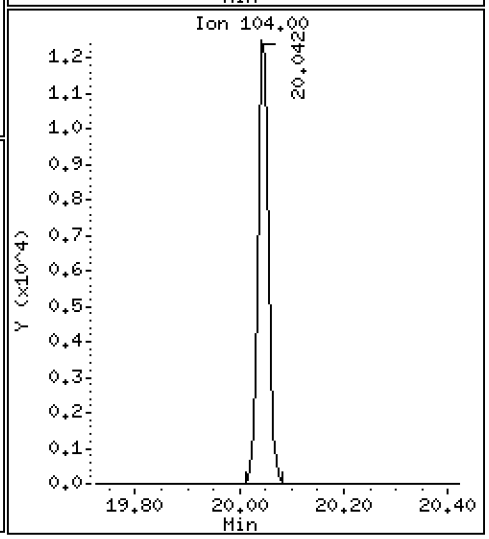












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

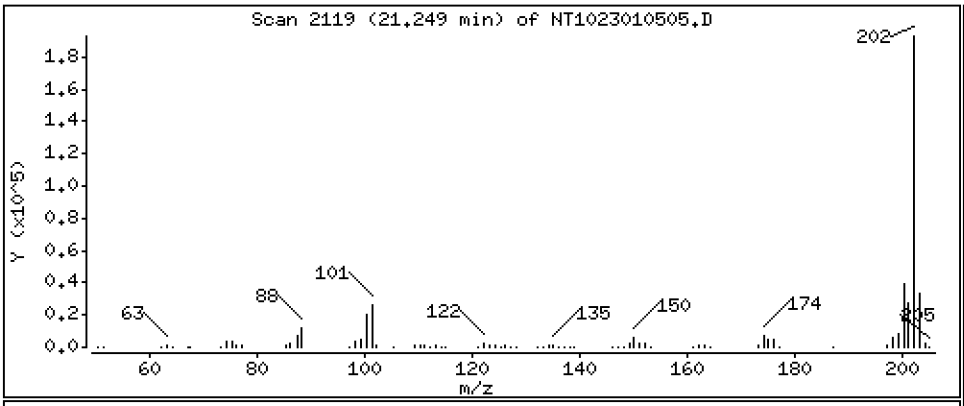
Operator: VTS

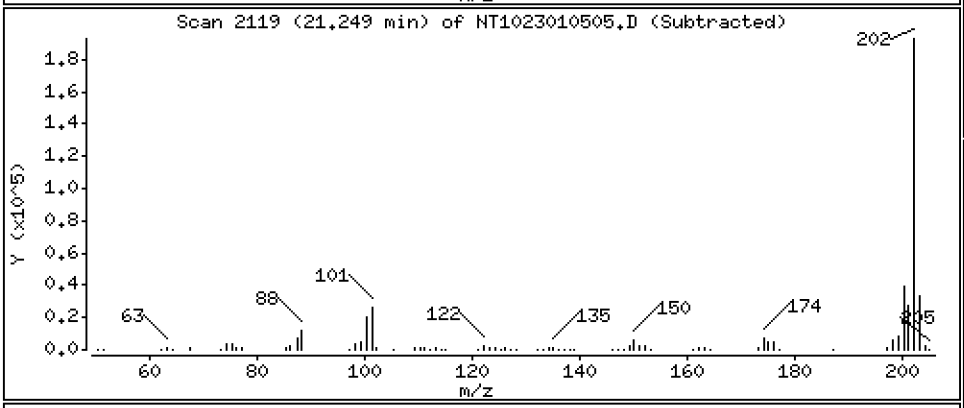
Column phase: ZB-5msi

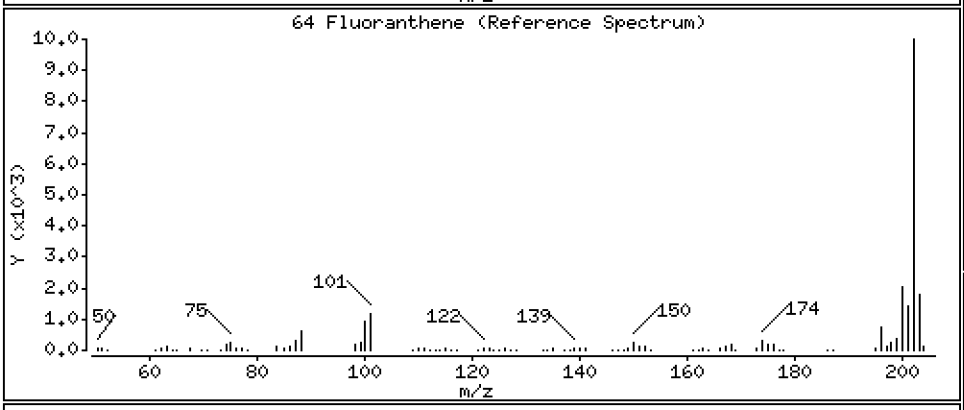
Column diameter: 0.25

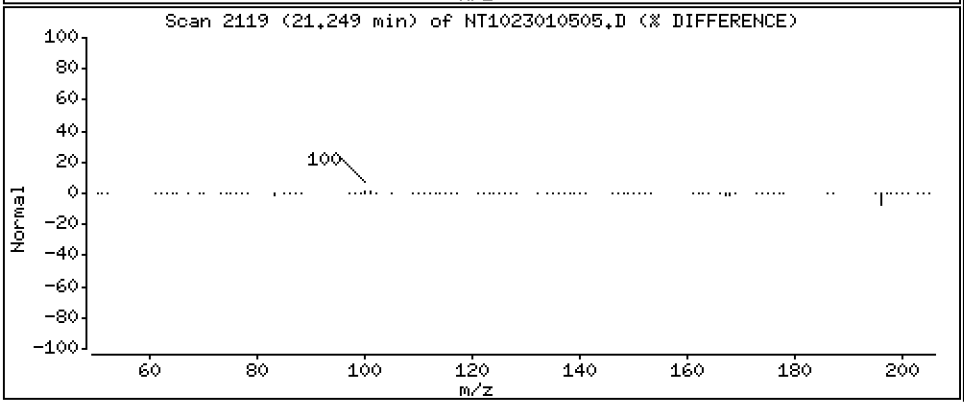
64 Fluoranthene

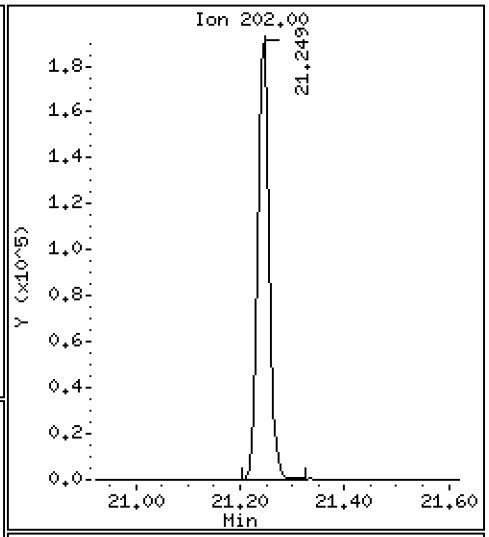
Concentration: 5.200 ug/mL

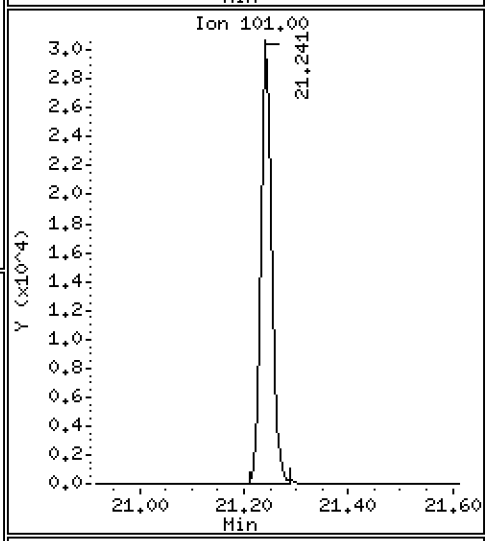


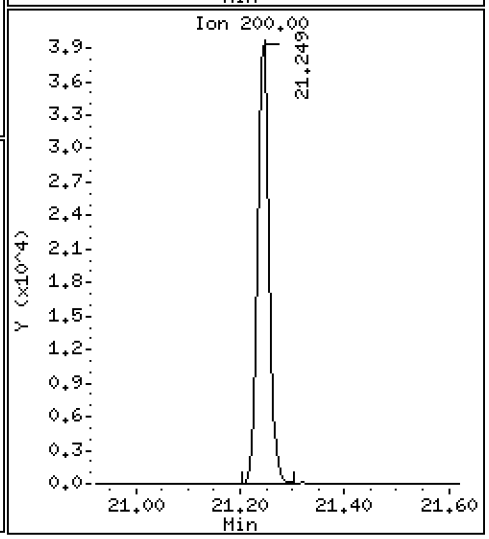












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

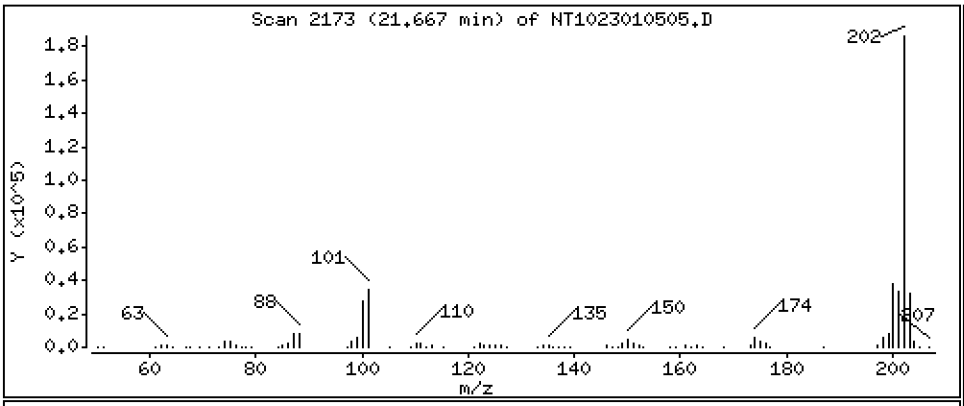
Operator: VTS

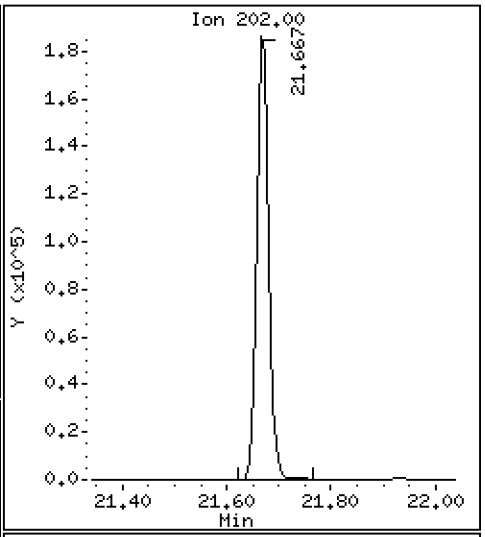
Column phase: ZB-5msi

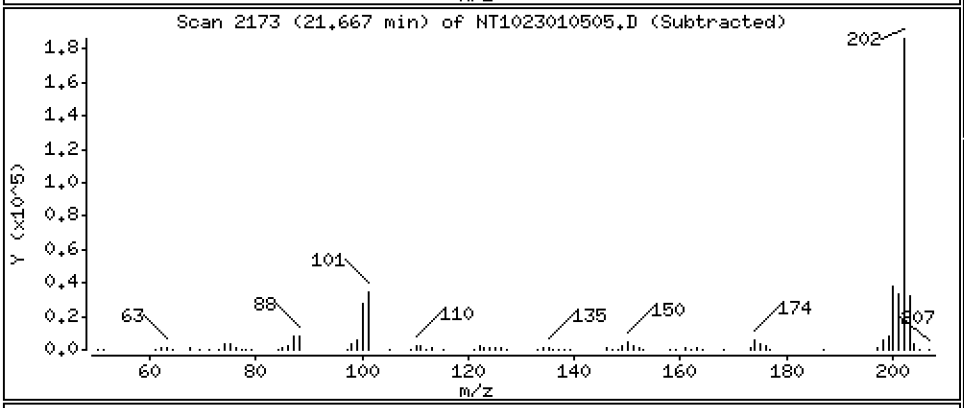
Column diameter: 0.25

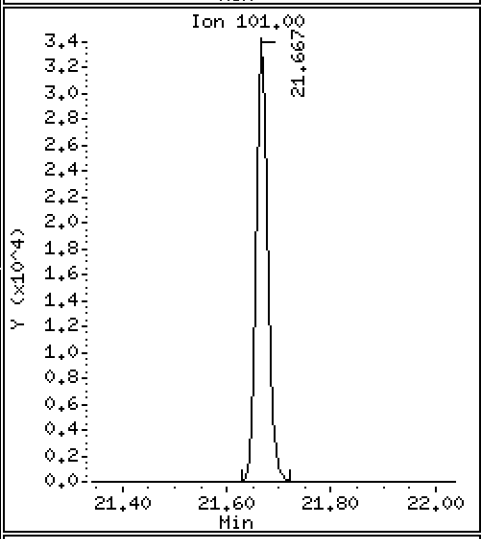
65 Pyrene

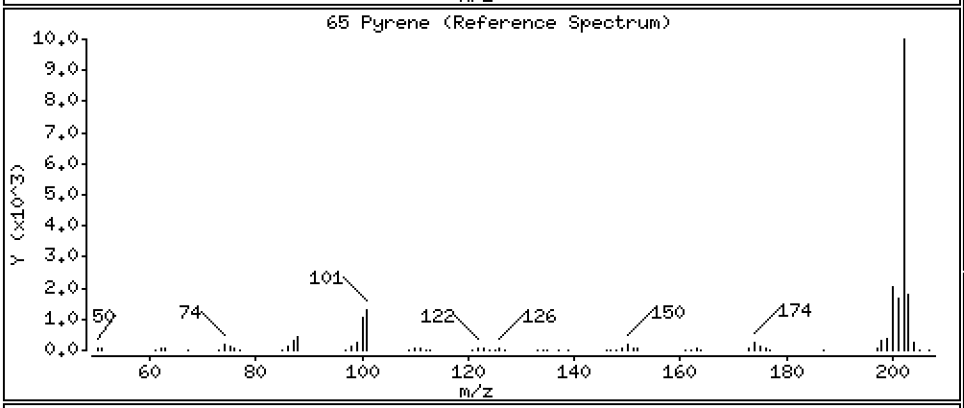
Concentration: 5.238 ug/mL

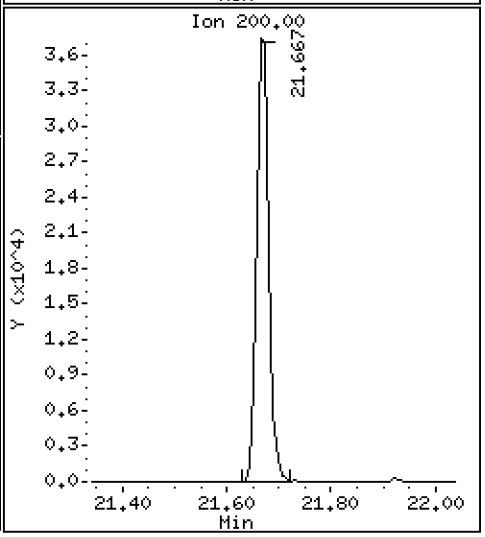


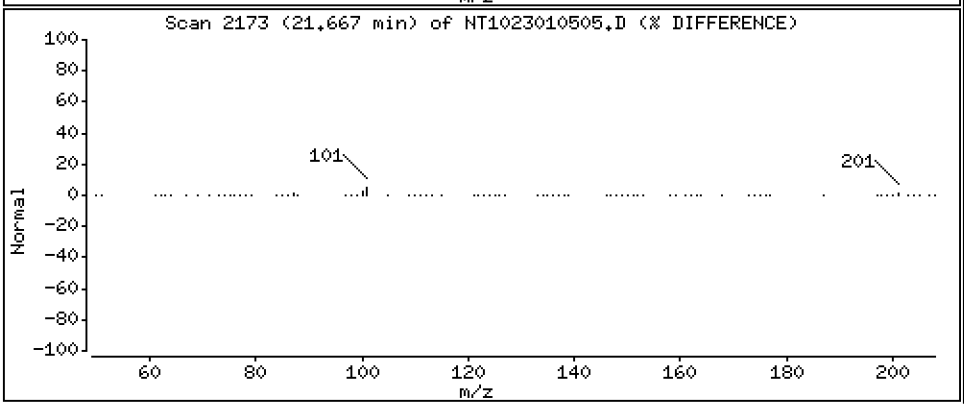












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

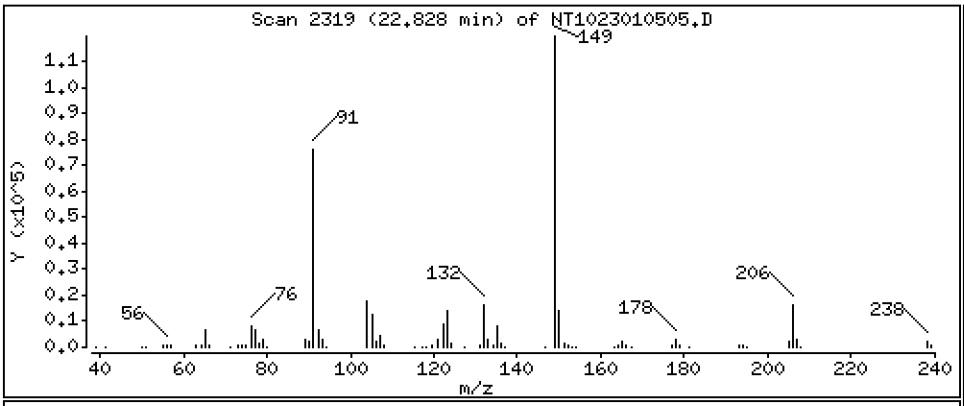
Operator: VTS

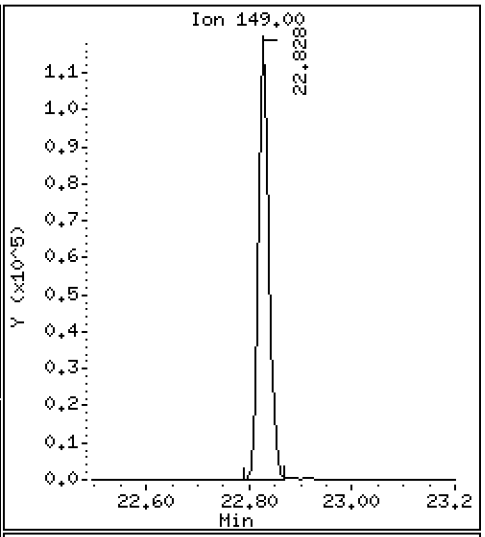
Column phase: ZB-5msi

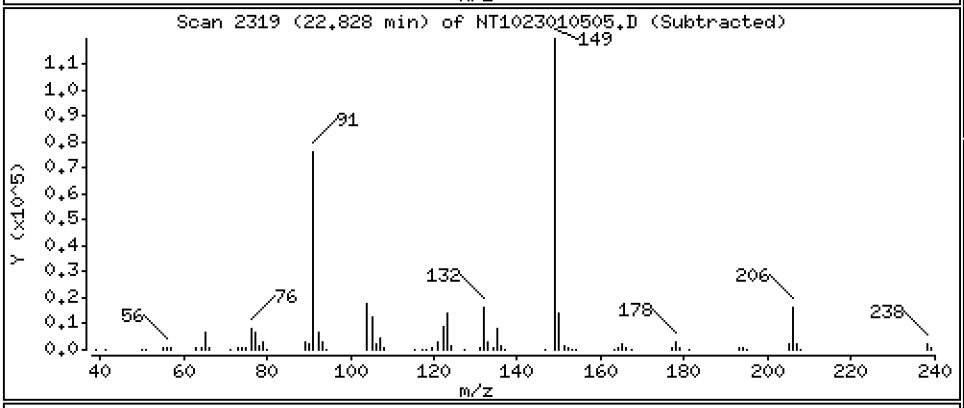
Column diameter: 0.25

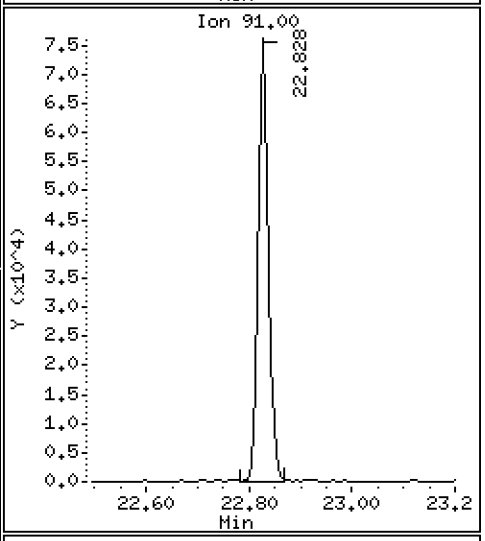
67 Butylbenzylphthalate

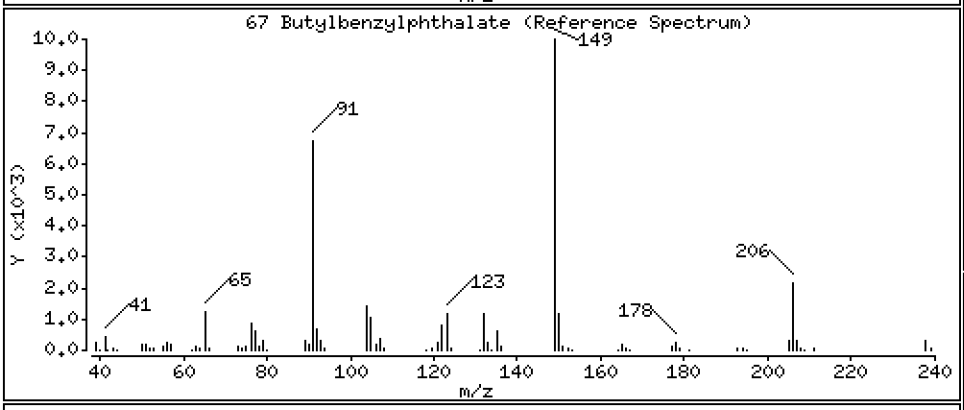
Concentration: 5.372 ug/mL

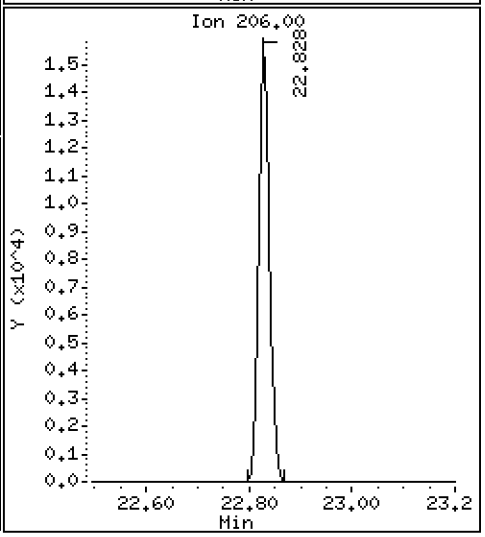


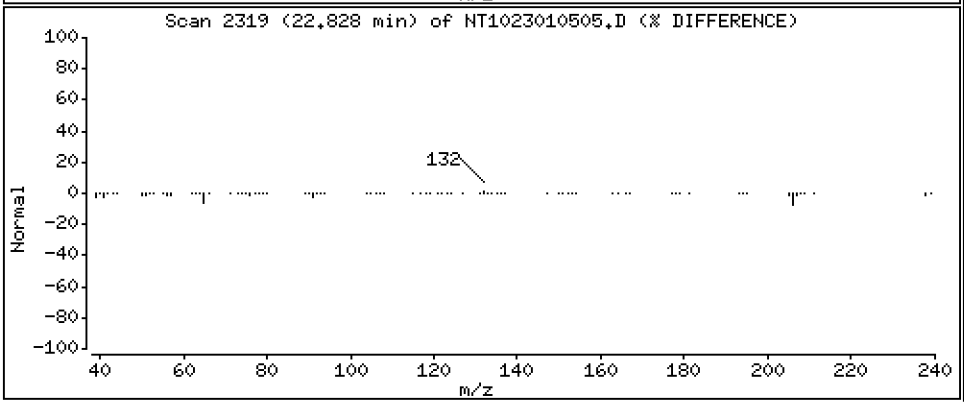












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

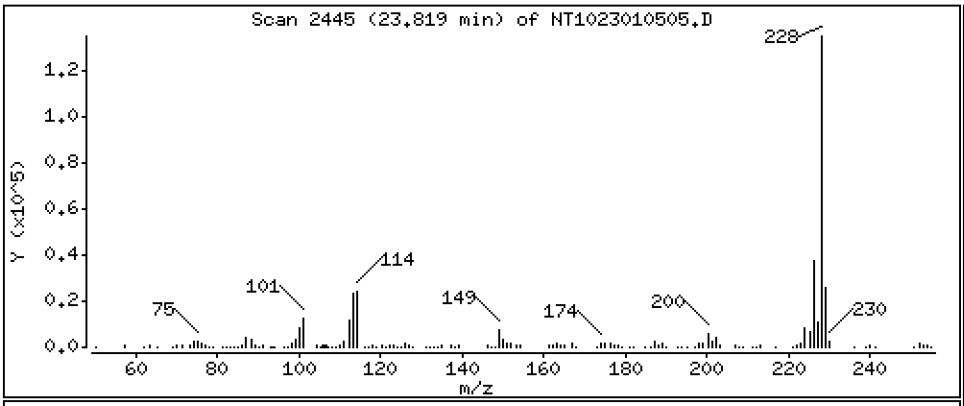
Operator: VTS

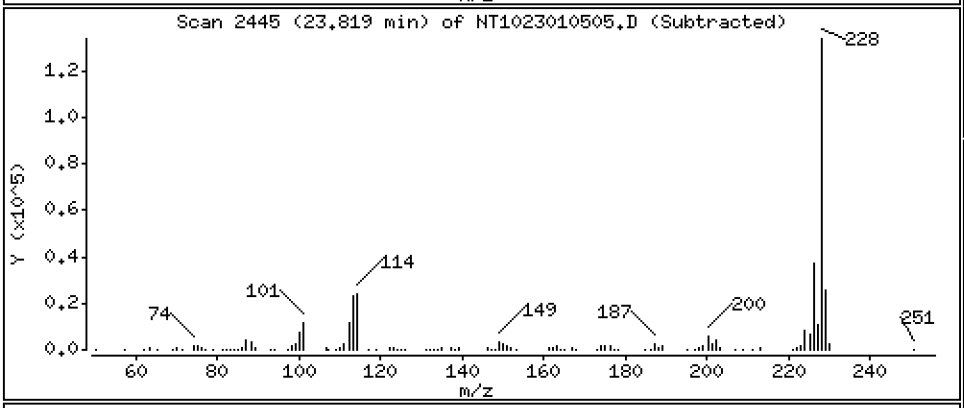
Column phase: ZB-5msi

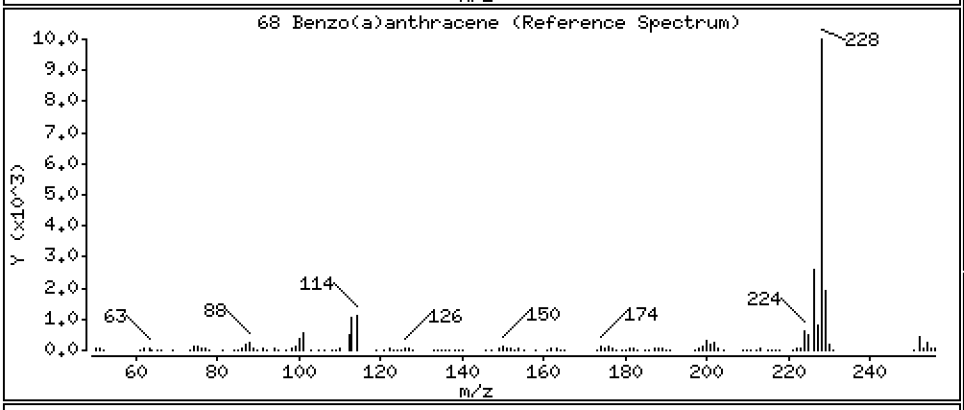
Column diameter: 0.25

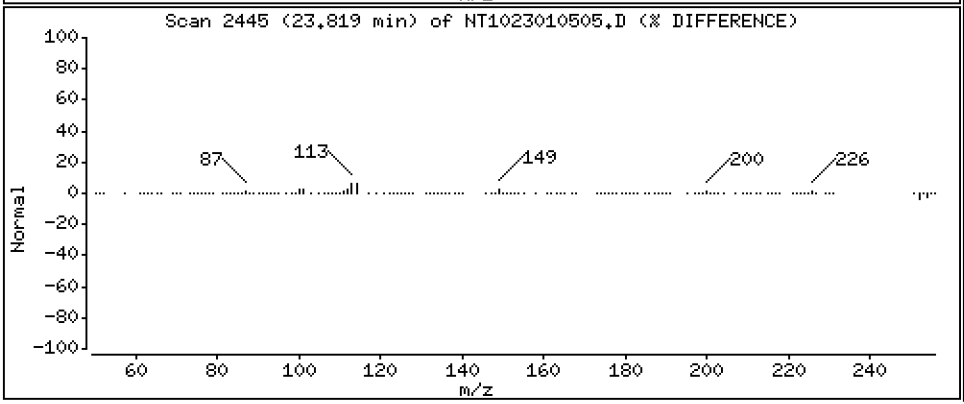
68 Benzo(a)anthracene

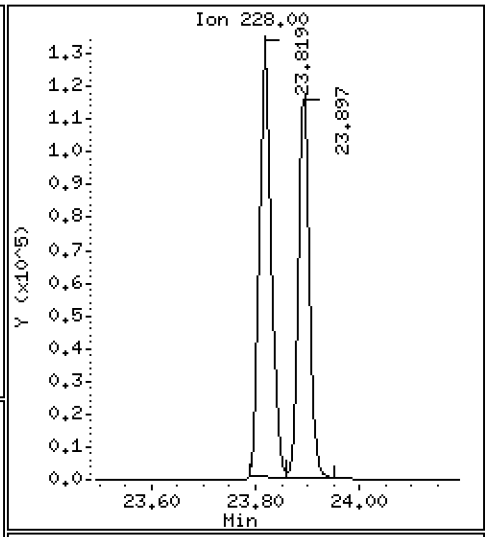
Concentration: 4.707 ug/mL

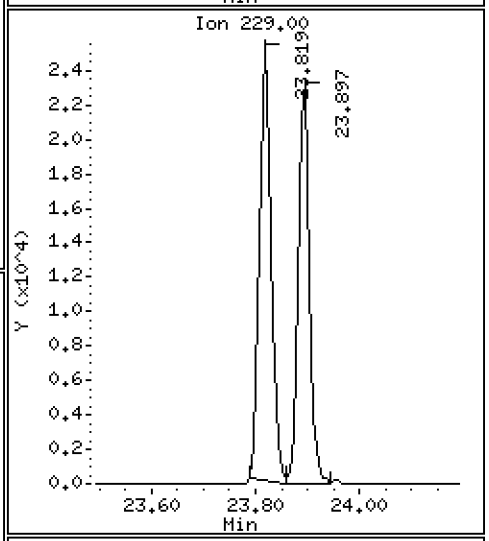


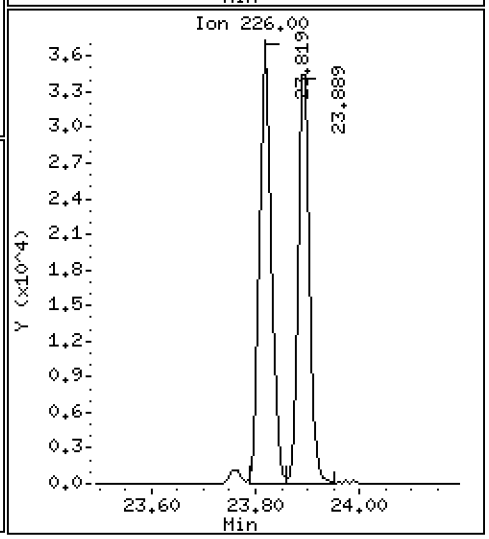












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

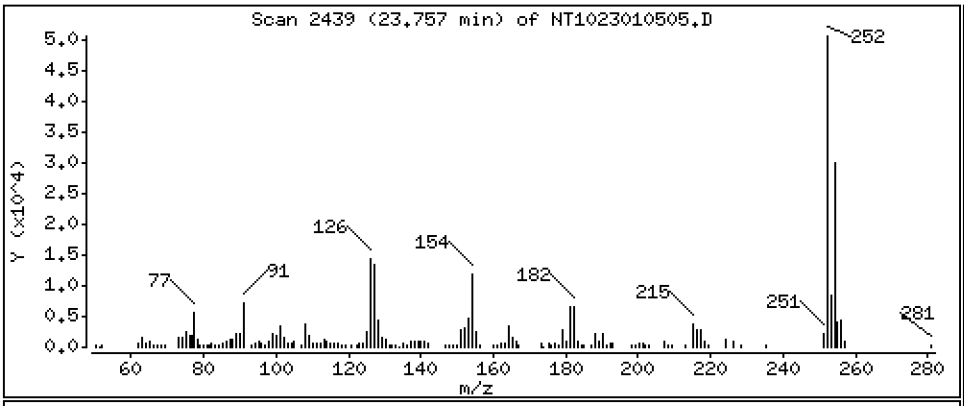
Operator: VTS

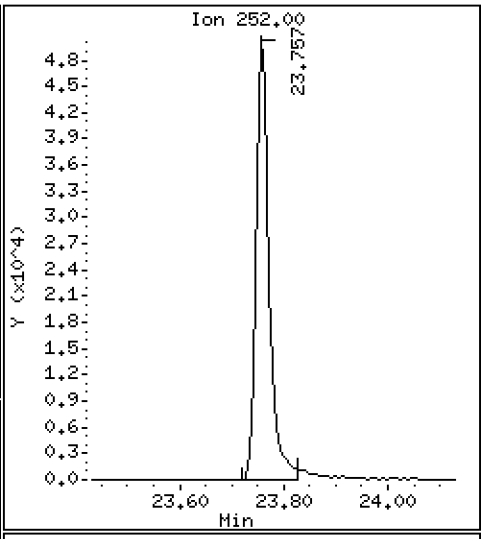
Column phase: ZB-5msi

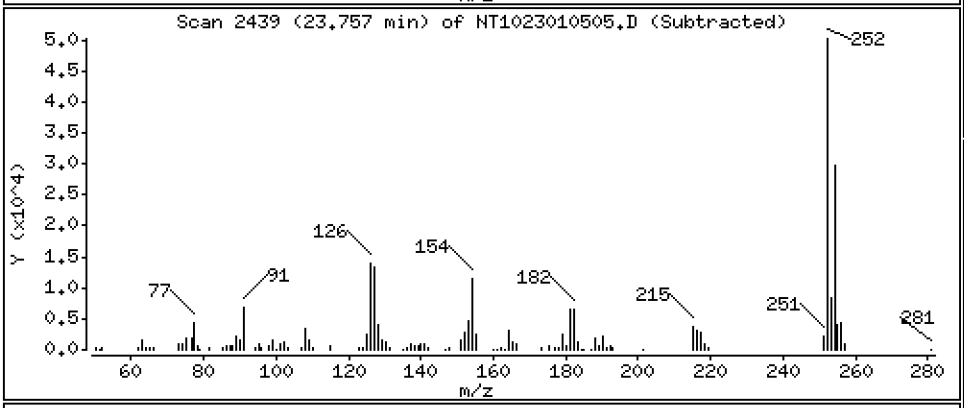
Column diameter: 0.25

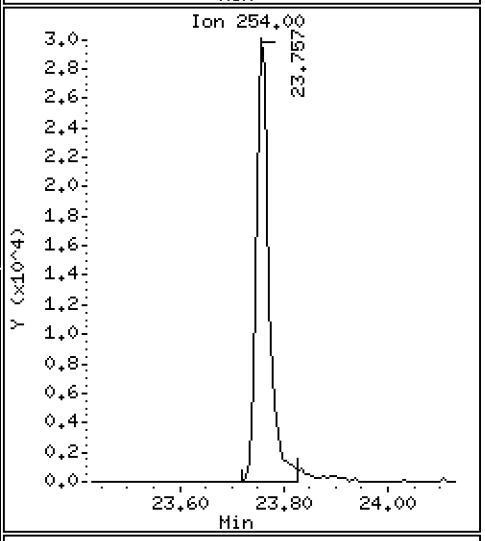
70 3,3'-Dichlorobenzidine

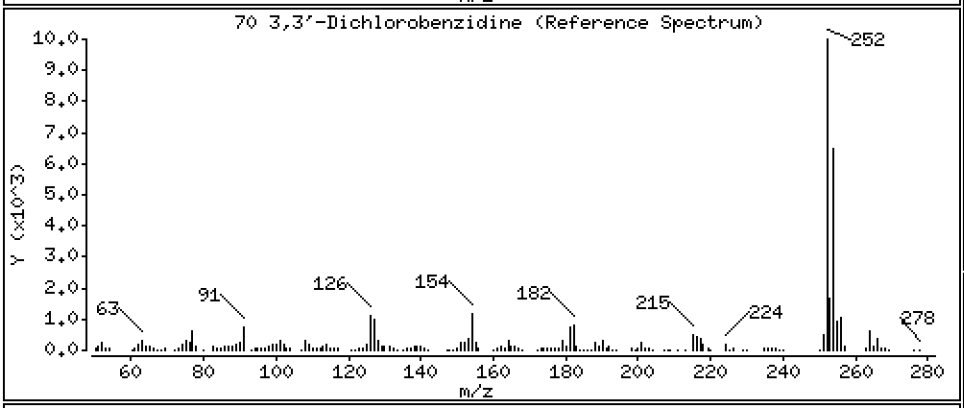
Concentration: 7.069 ug/mL

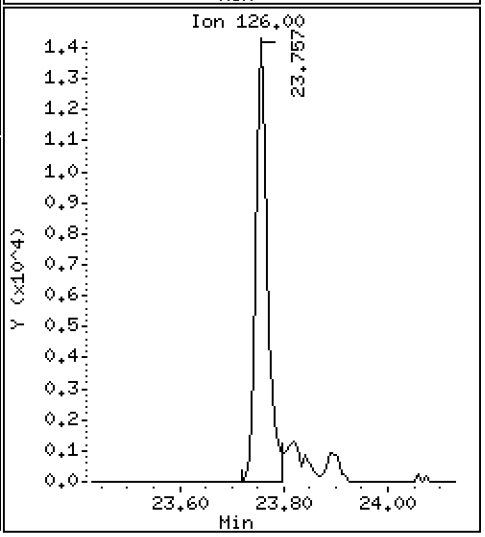


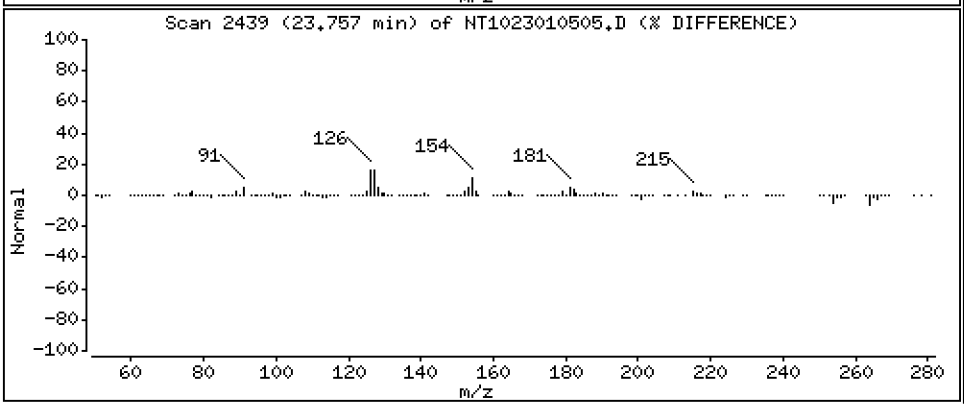












Date : 05-JAN-2023 15:56

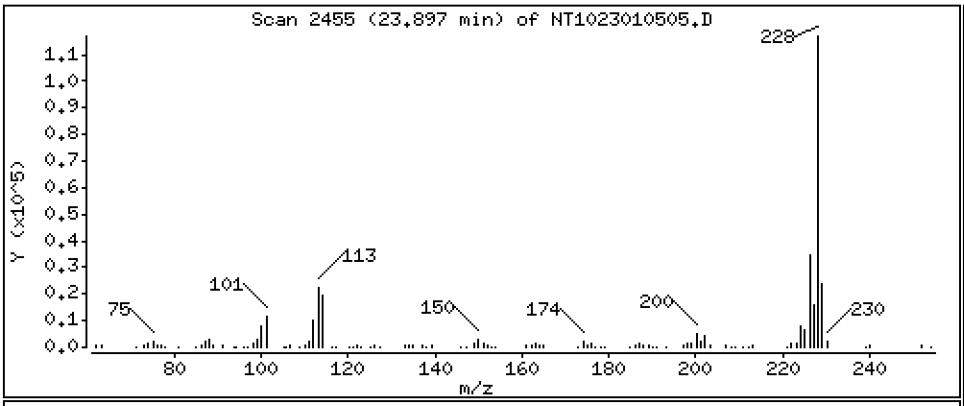
Client ID: Instrument: nt10.i

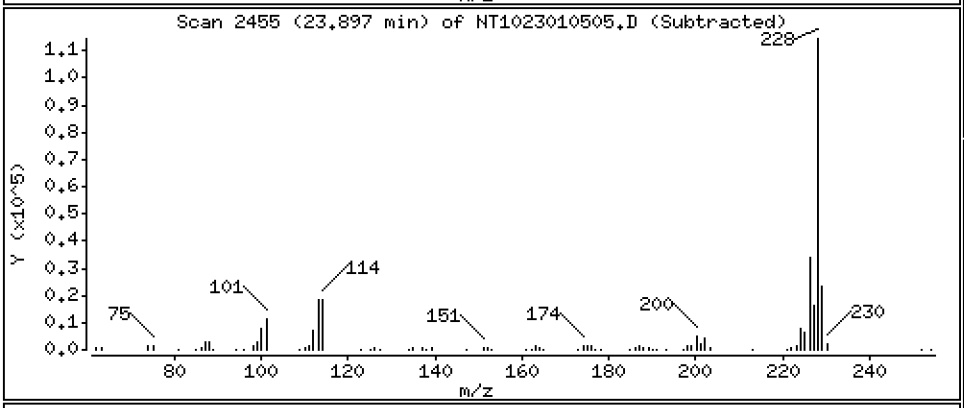
Sample Info: BKL0489-BS1

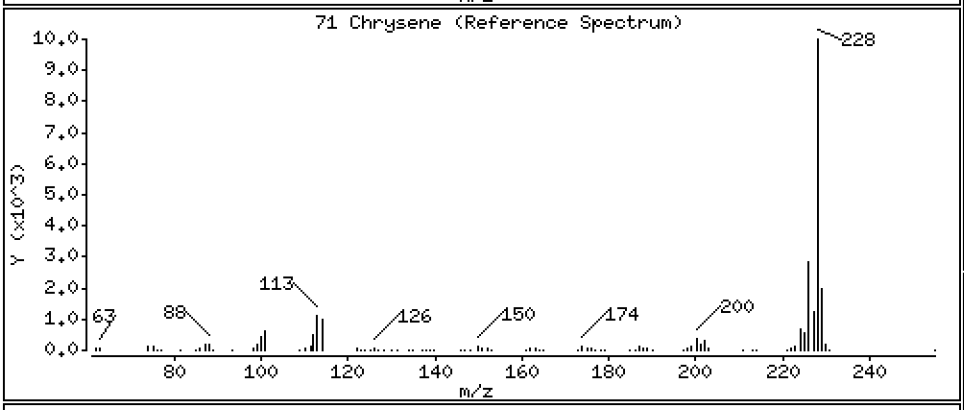
Operator: VTS

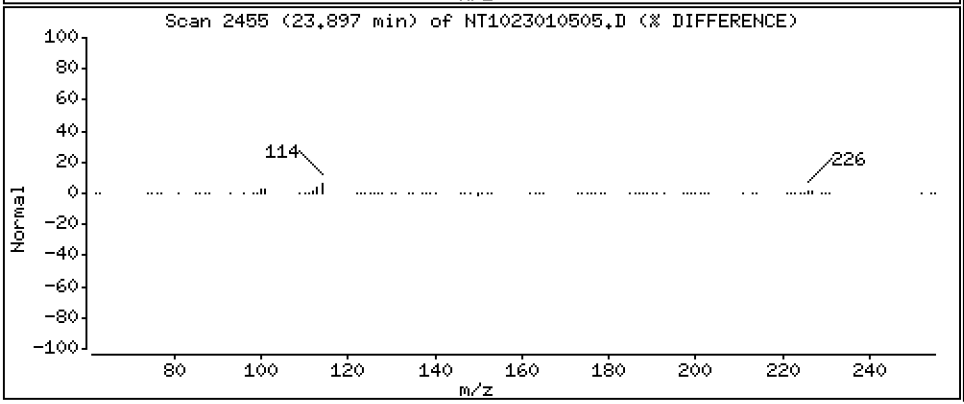
Column phase: ZB-5msi Column diameter: 0.25

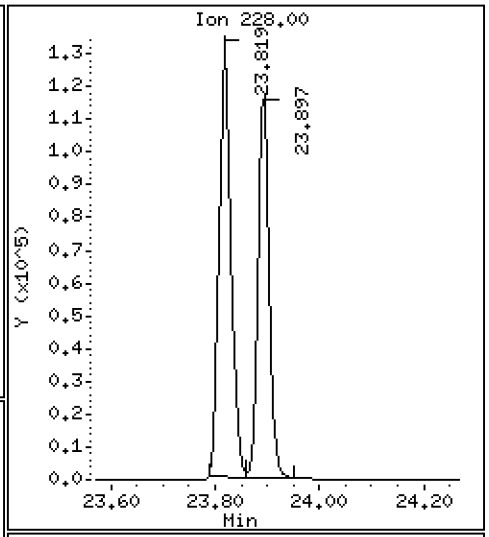
71 Chrysene Concentration: 5.241 ug/mL

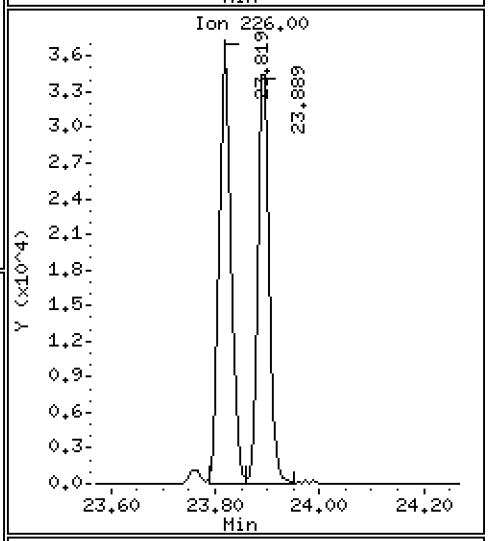


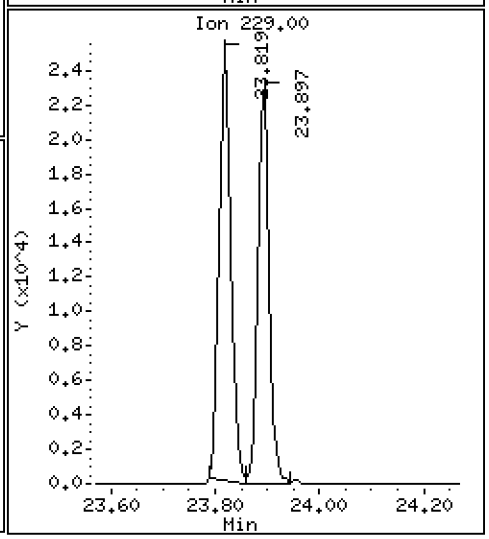












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D

Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

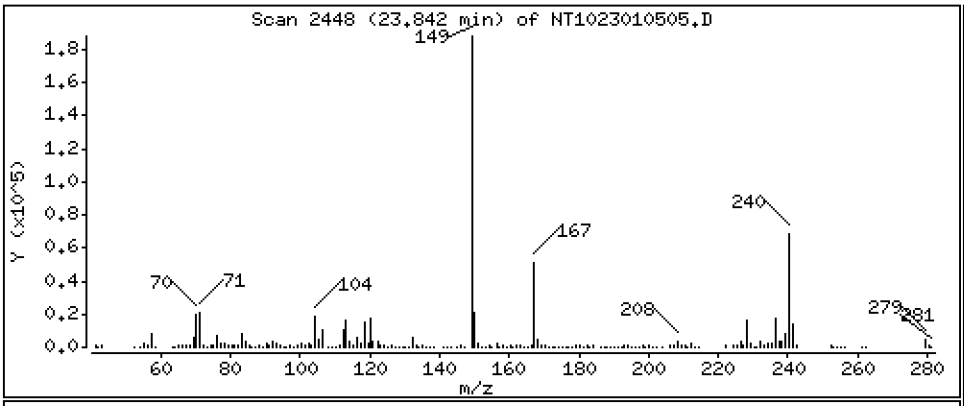
Operator: VTS

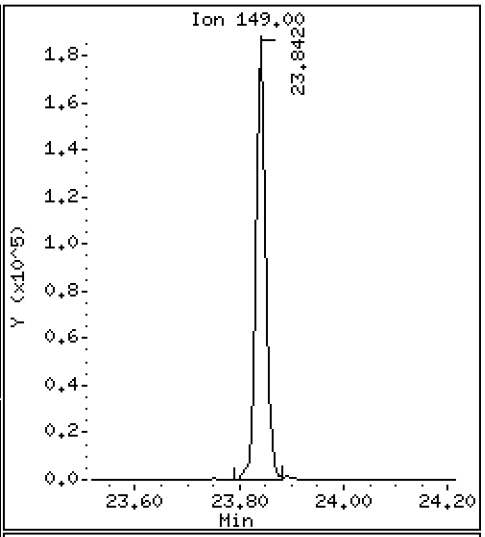
Column phase: ZB-5msi

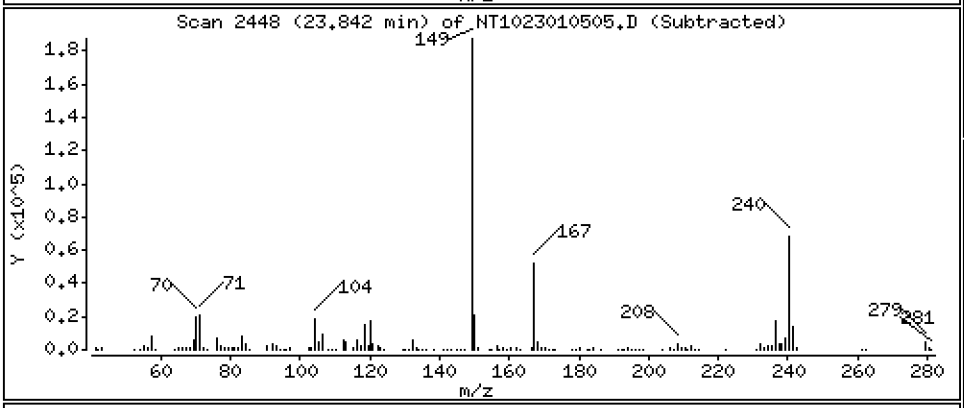
Column diameter: 0.25

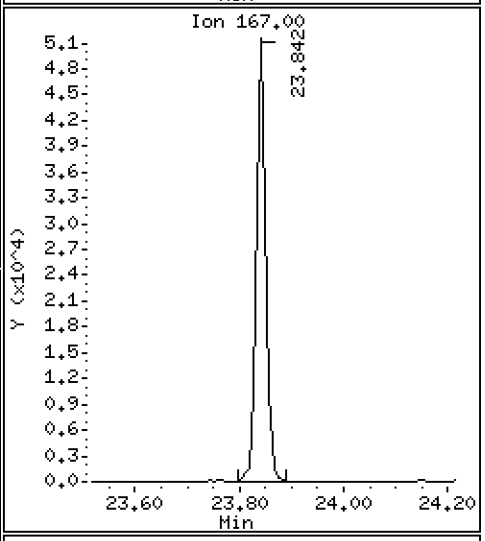
72 bis(2-Ethylhexyl)phthalate

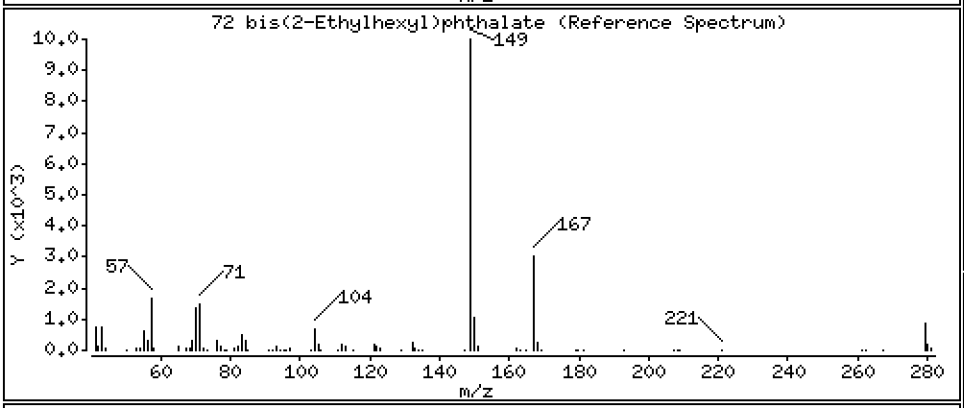
Concentration: 6.082 ug/mL

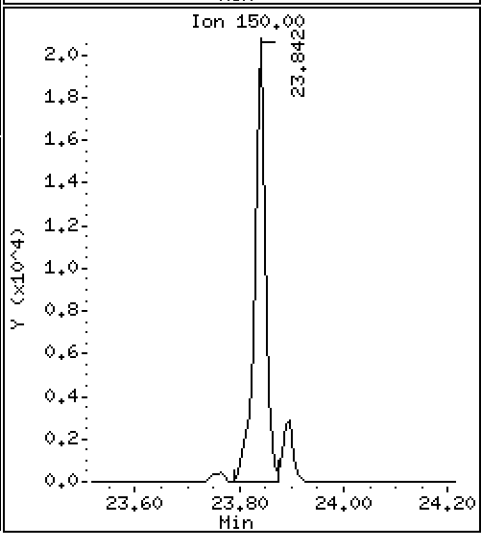


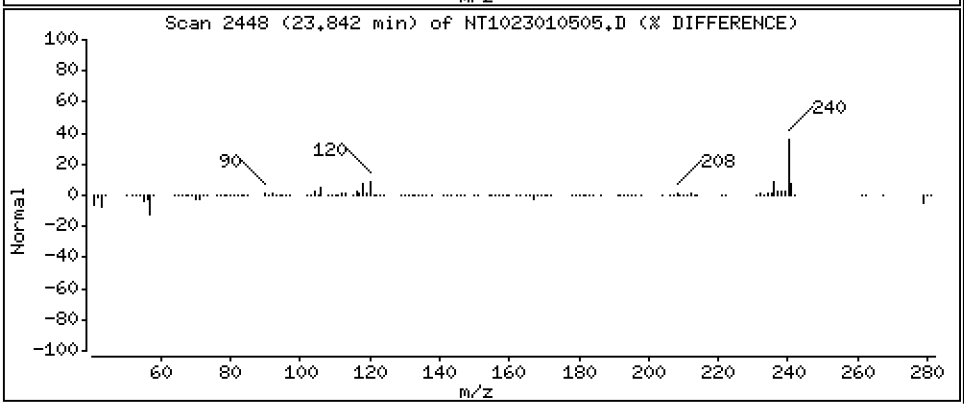












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

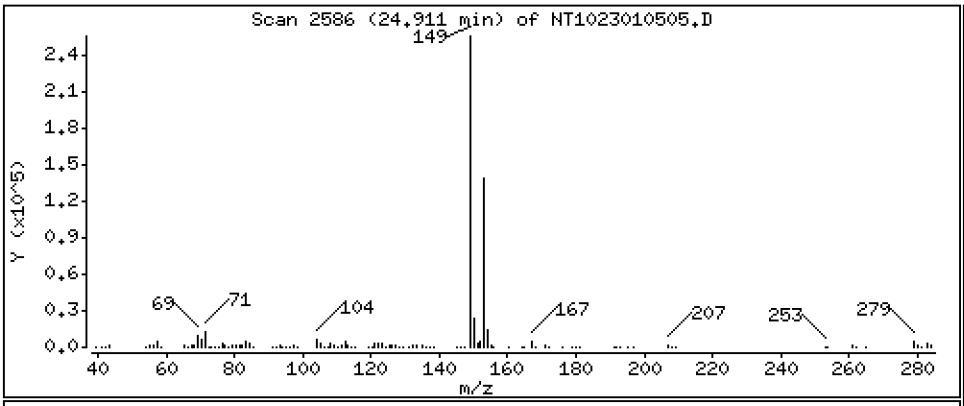
Operator: VTS

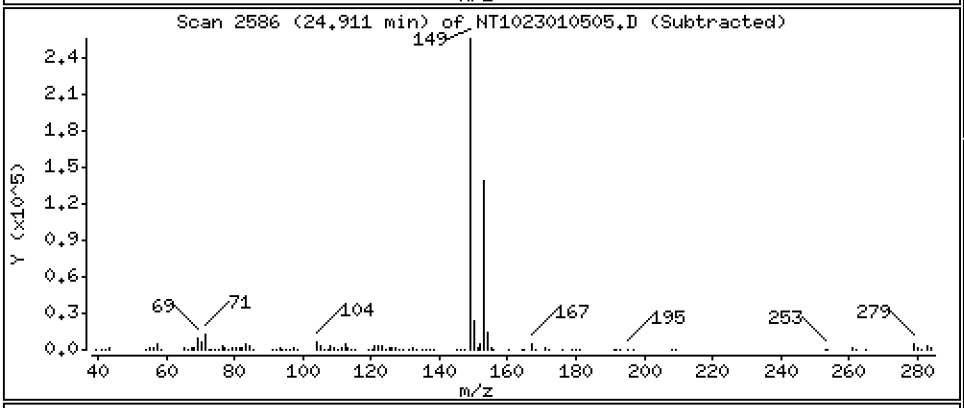
Column phase: ZB-5msi

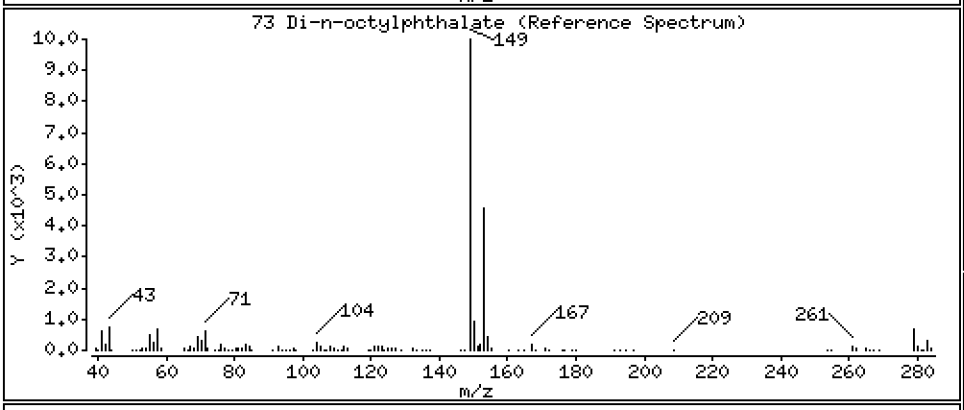
Column diameter: 0.25

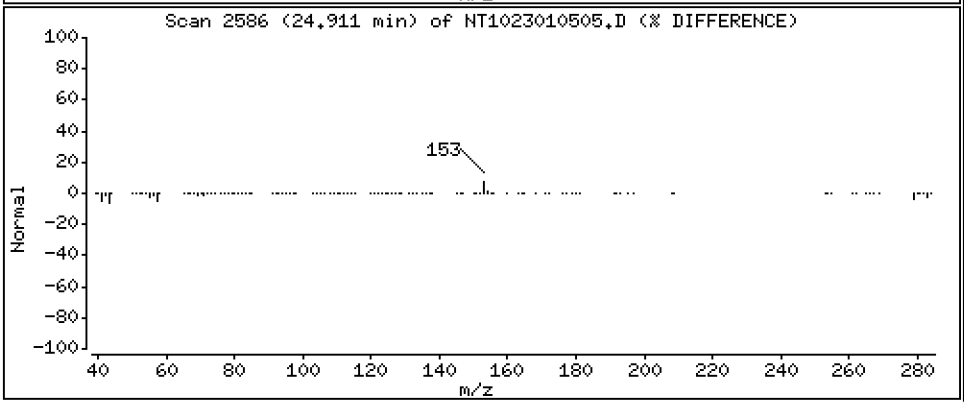
73 Di-n-octylphthalate

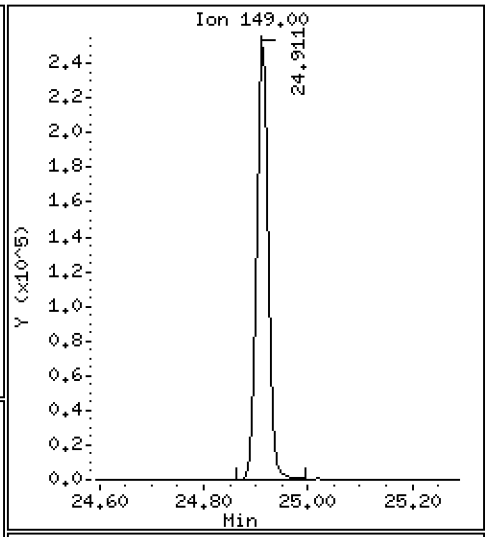
Concentration: 5.619 ug/mL

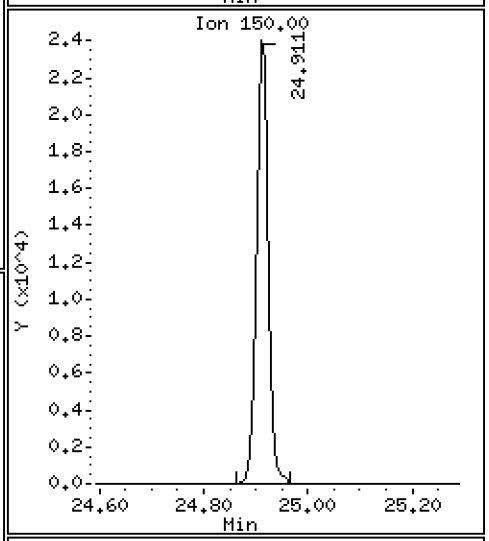


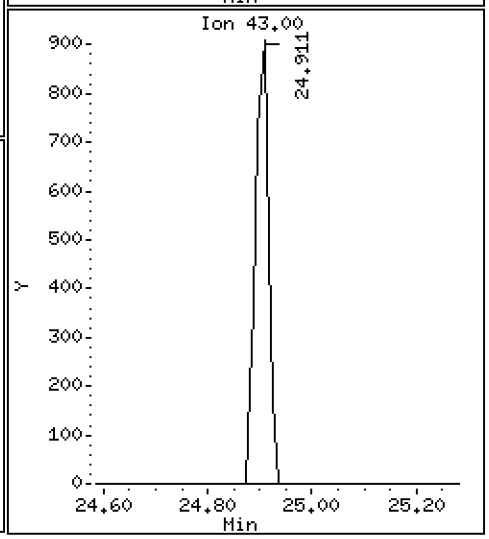












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

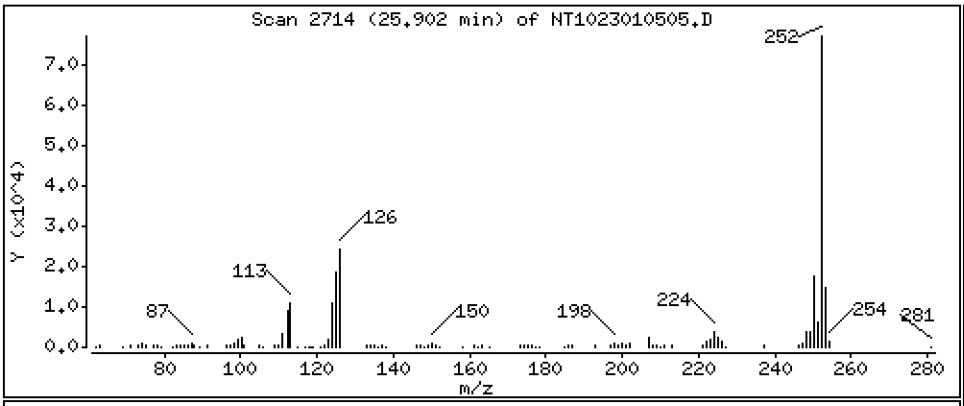
Operator: VTS

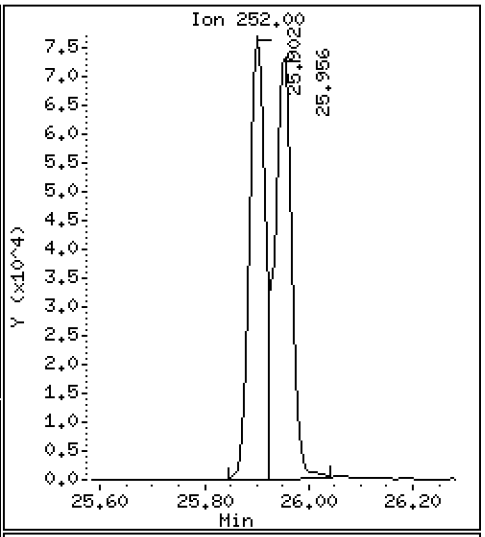
Column phase: ZB-5msi

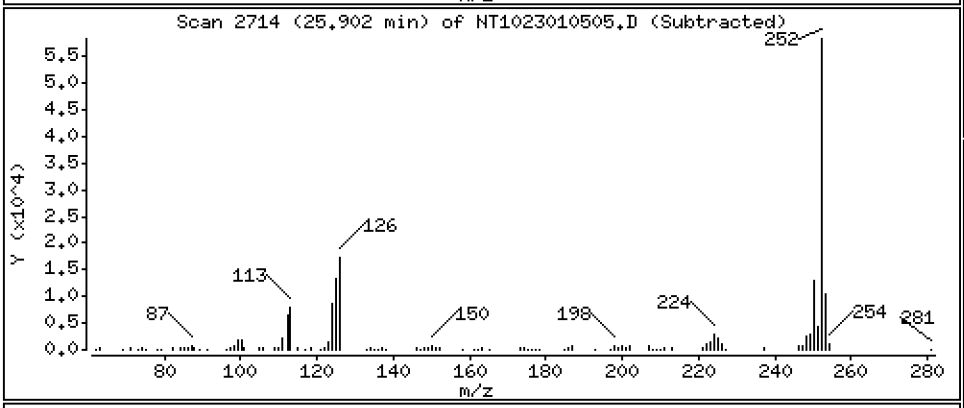
Column diameter: 0.25

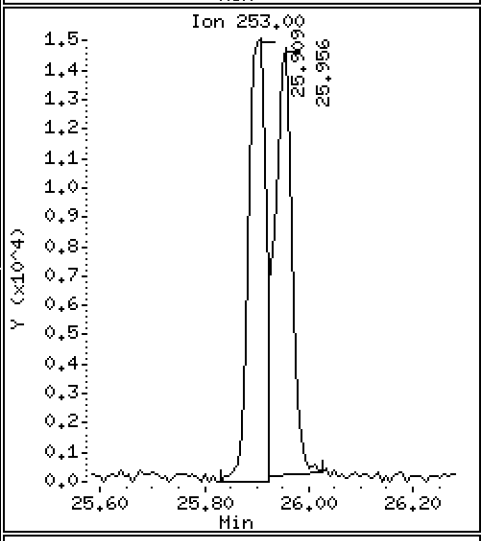
74 Benzo(b)fluoranthene

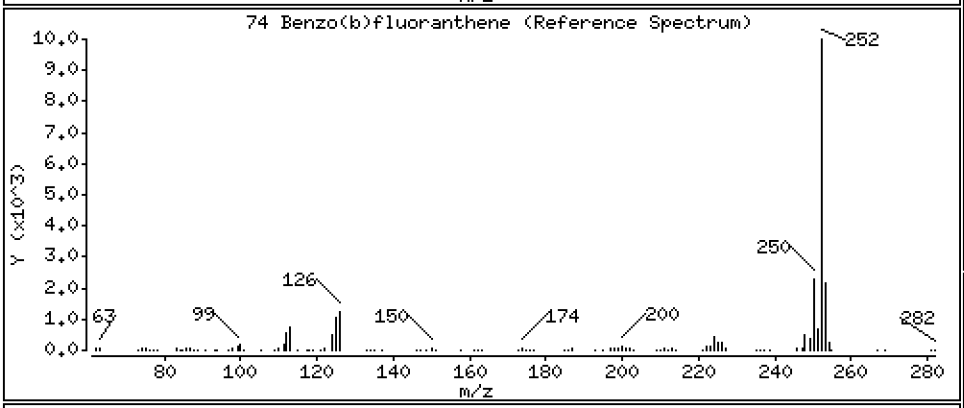
Concentration: 5.497 ug/mL

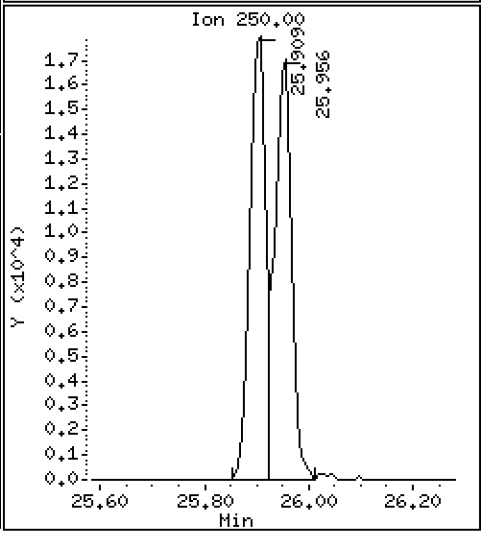


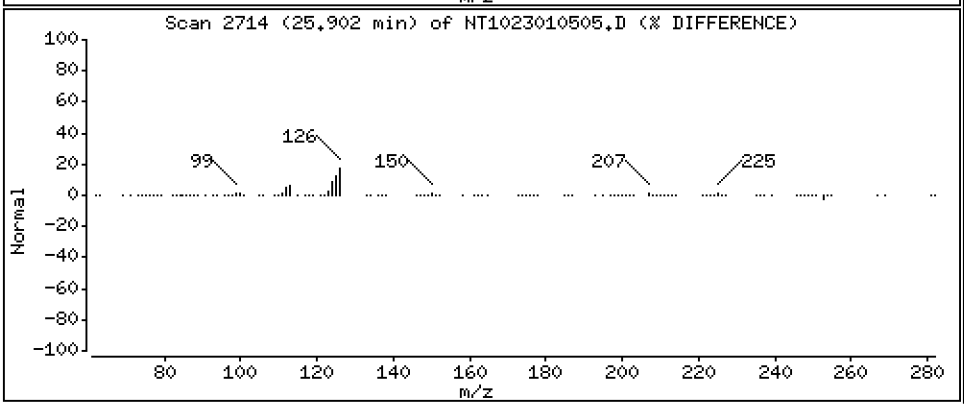












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

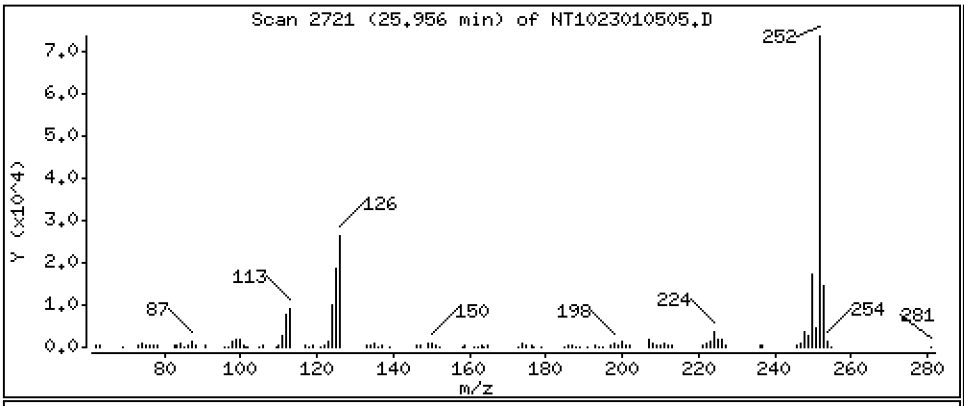
Operator: VTS

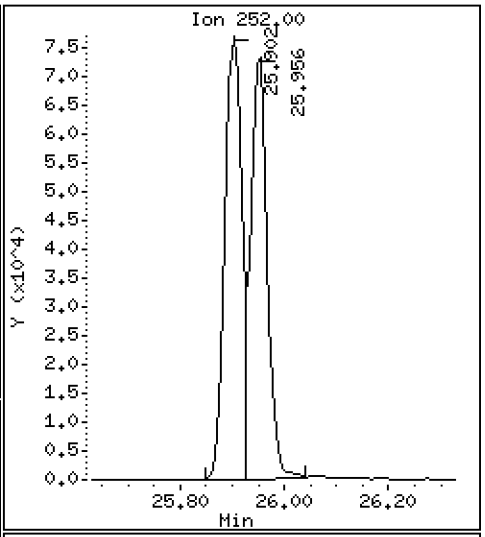
Column phase: ZB-5msi

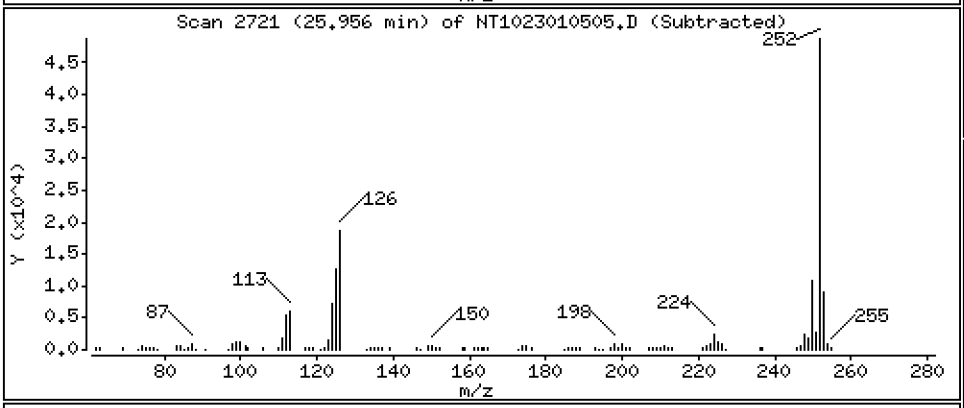
Column diameter: 0.25

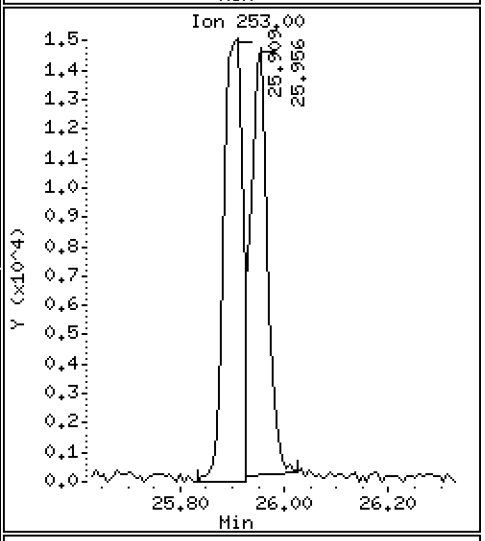
75 Benzo(k)fluoranthene

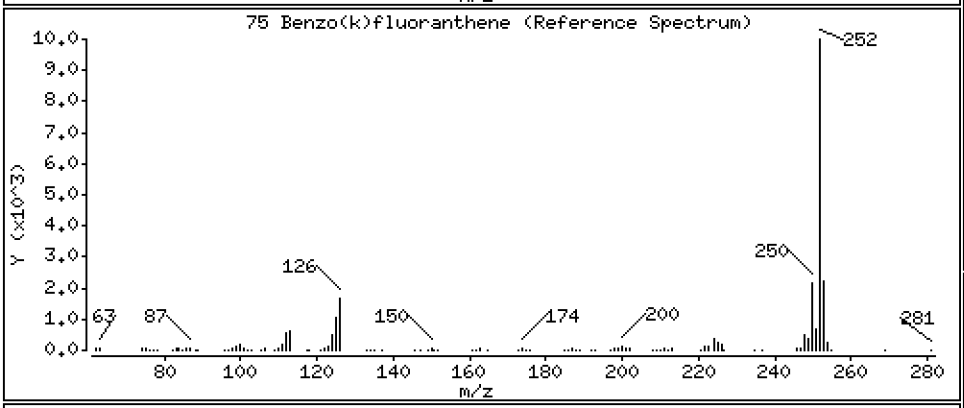
Concentration: 5.695 ug/mL

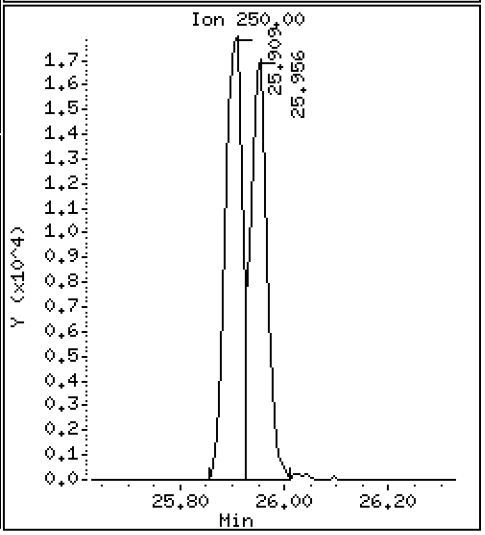


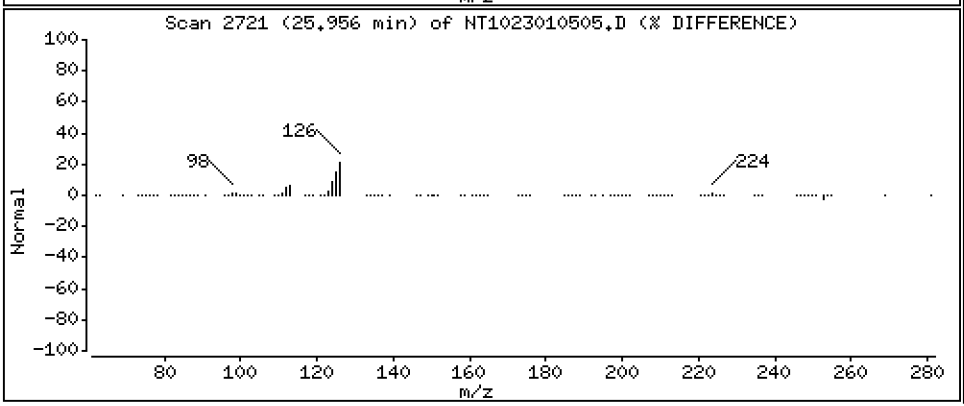












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

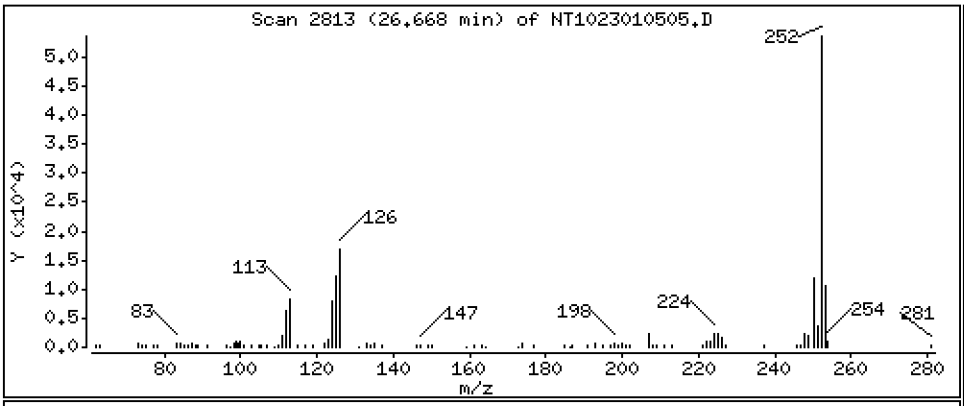
Operator: VTS

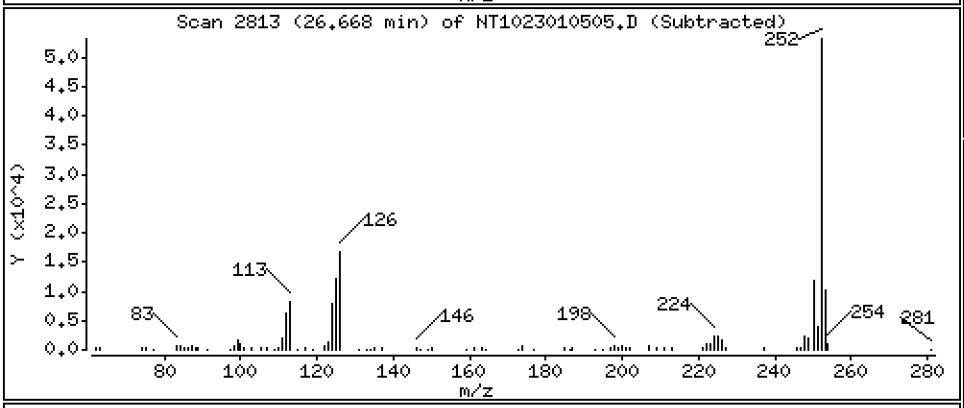
Column phase: ZB-5msi

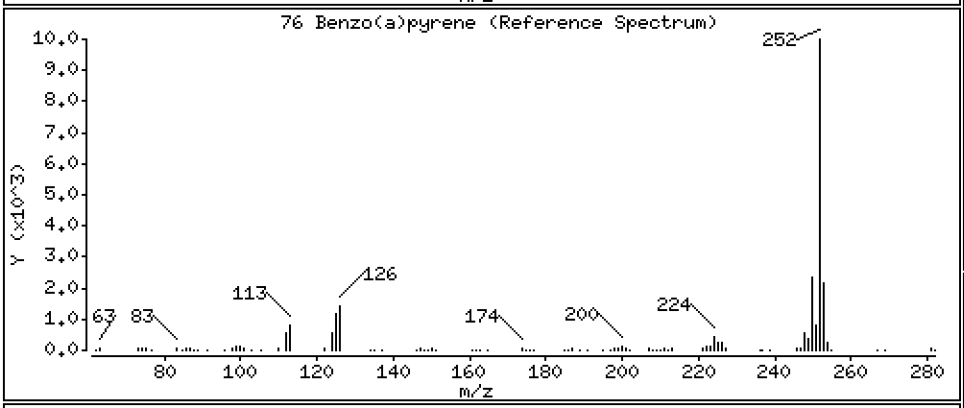
Column diameter: 0.25

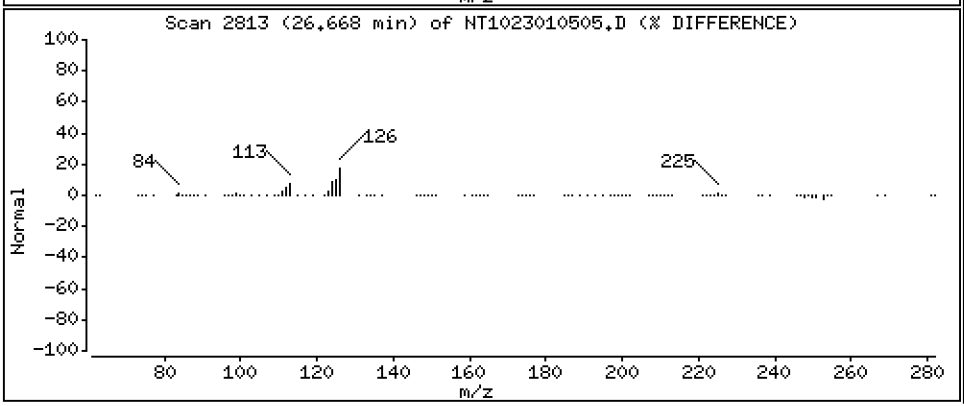
76 Benzo(a)pyrene

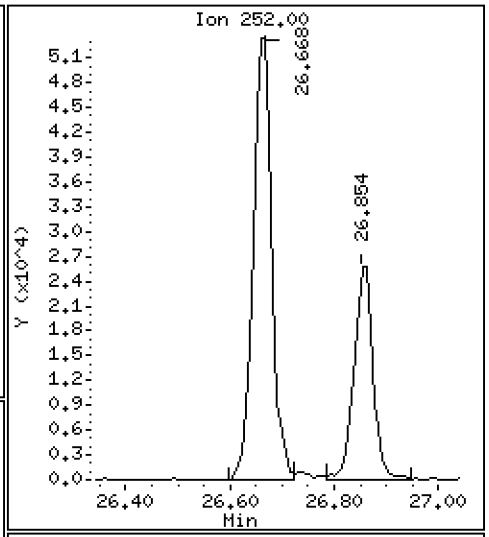
Concentration: 5.099 ug/mL

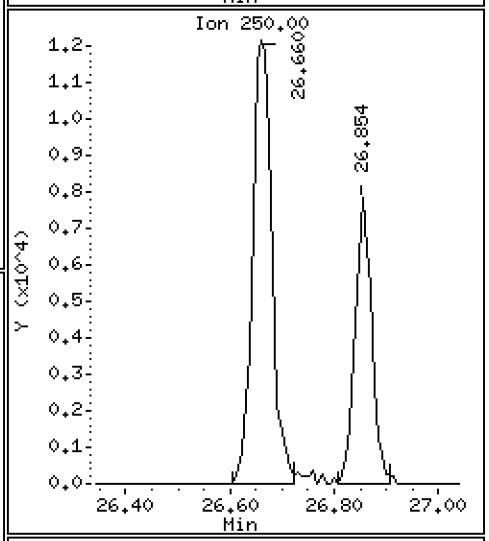


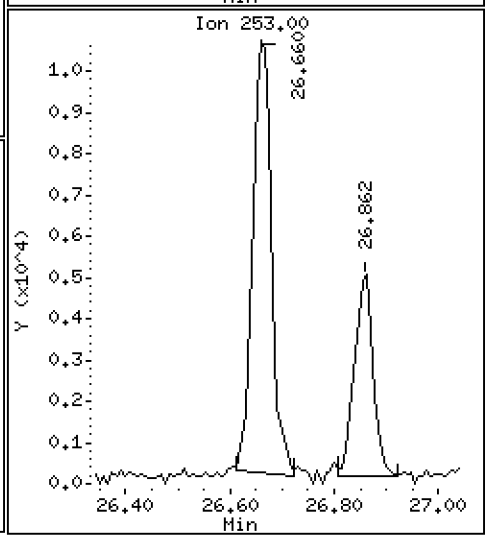












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

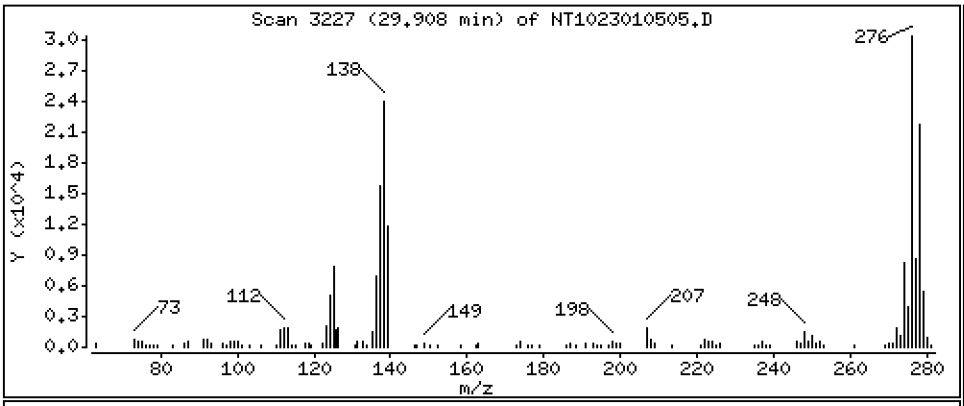
Operator: VTS

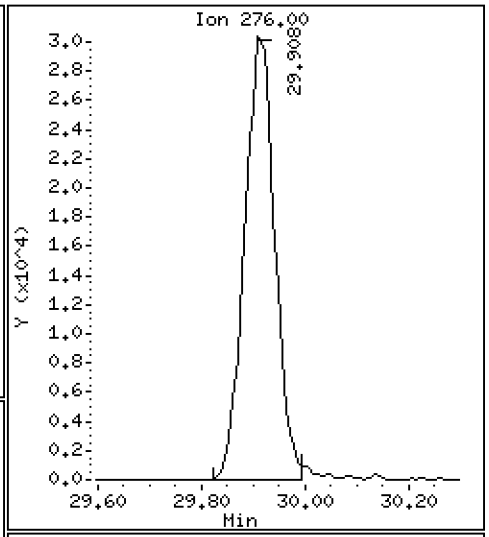
Column phase: ZB-5msi

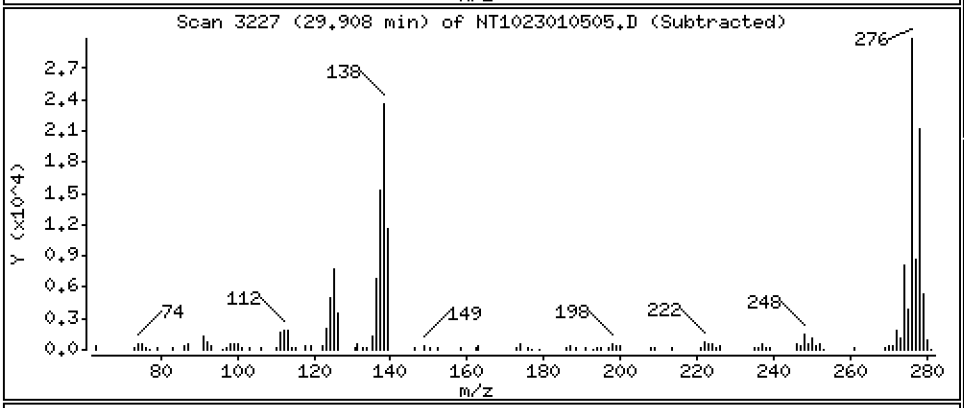
Column diameter: 0.25

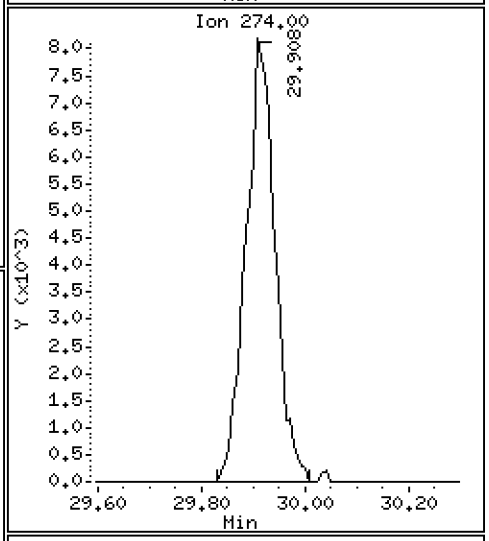
78 Indeno(1,2,3-cd)pyrene

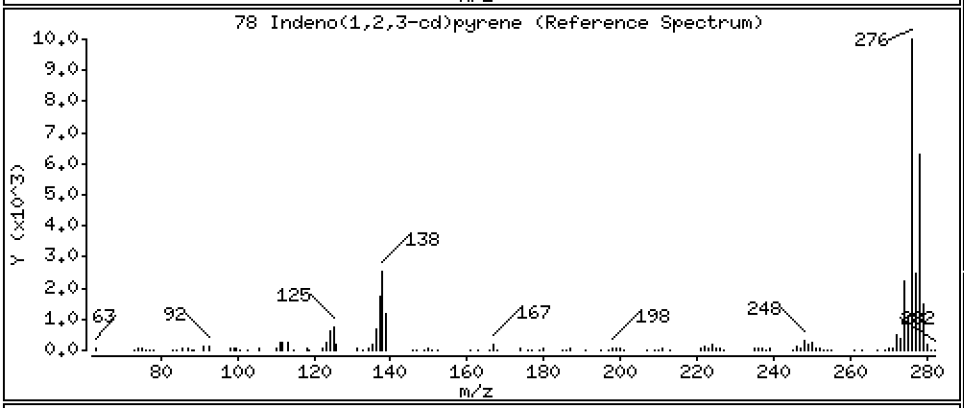
Concentration: 5.317 ug/mL

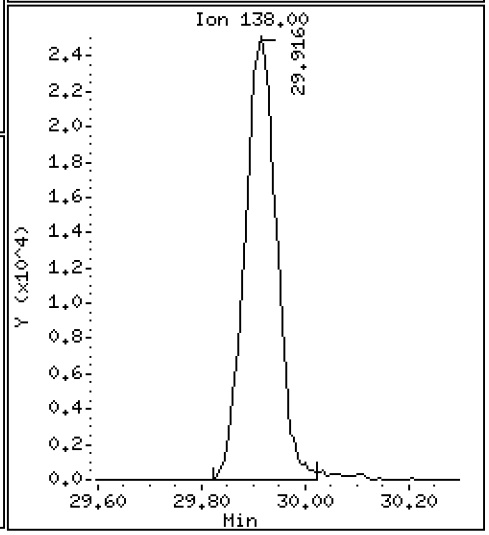


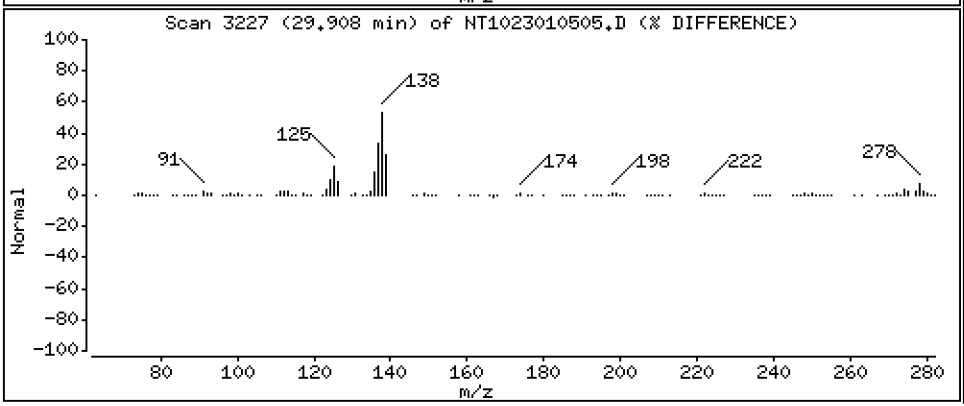












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

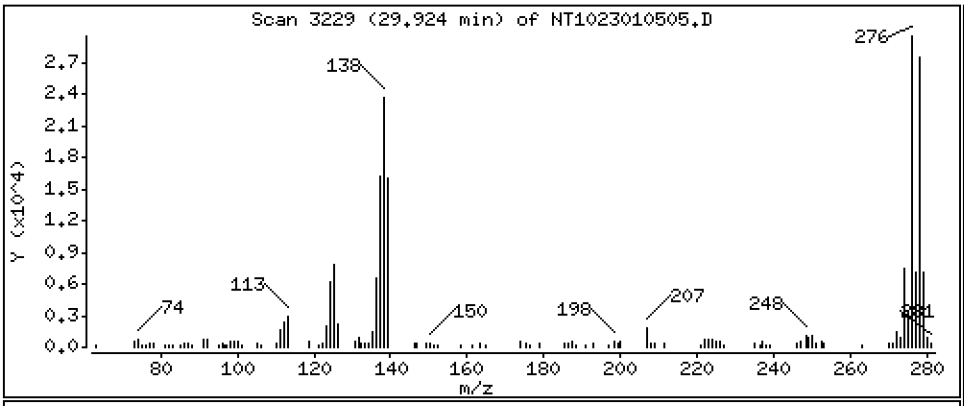
Operator: VTS

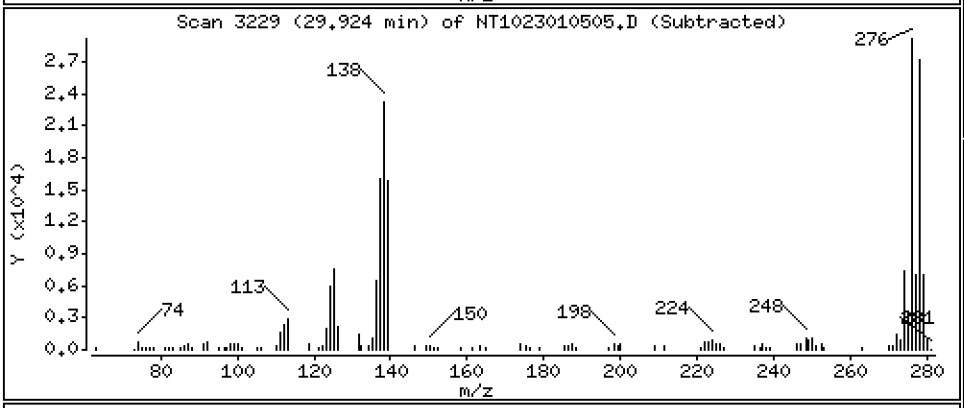
Column phase: ZB-5msi

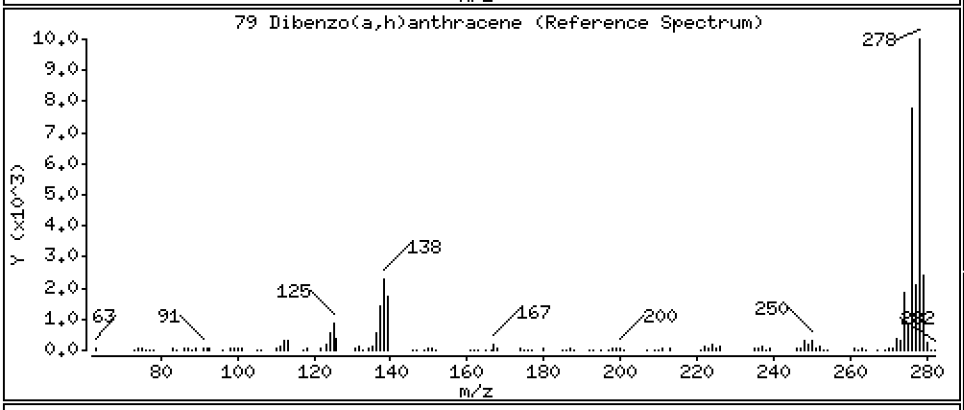
Column diameter: 0.25

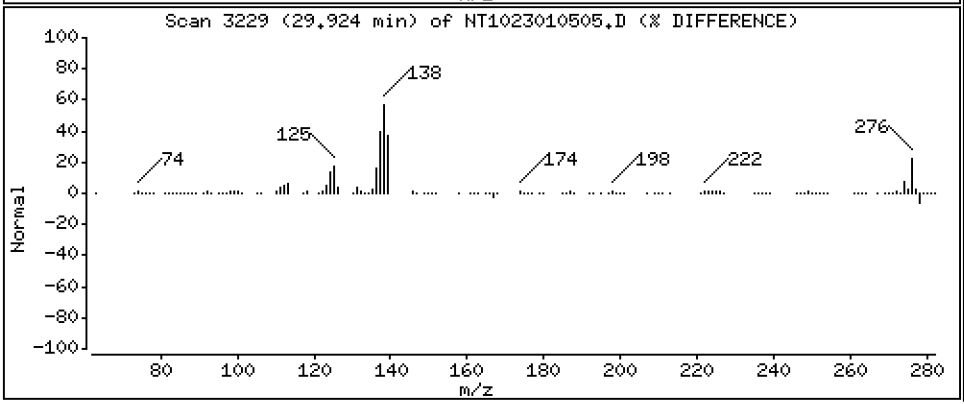
79 Dibenzo(a,h)anthracene

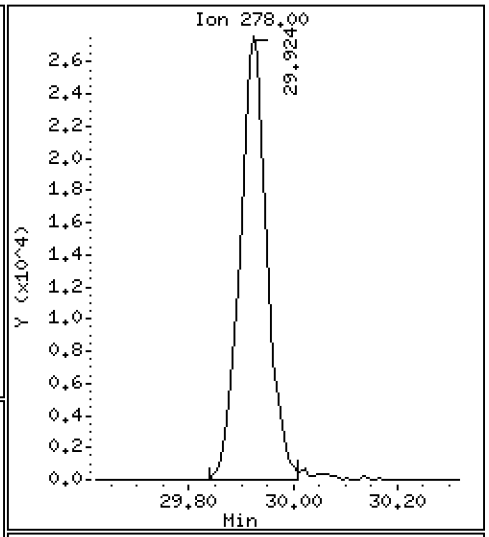
Concentration: 5.515 ug/mL

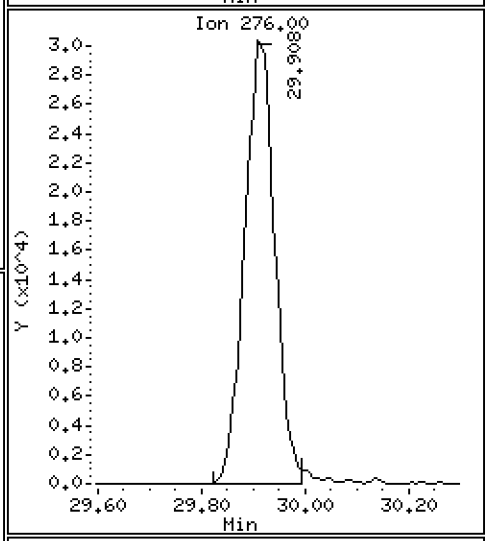


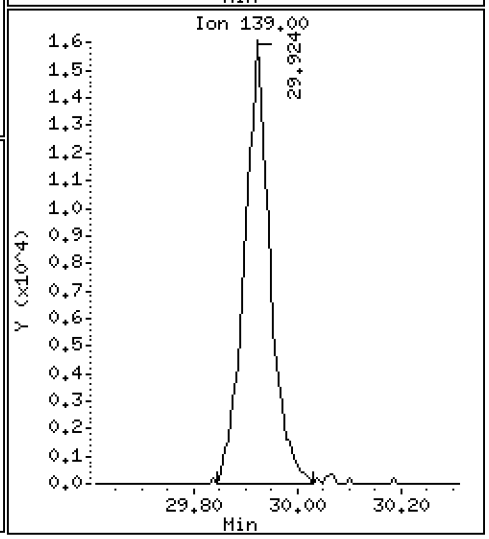












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

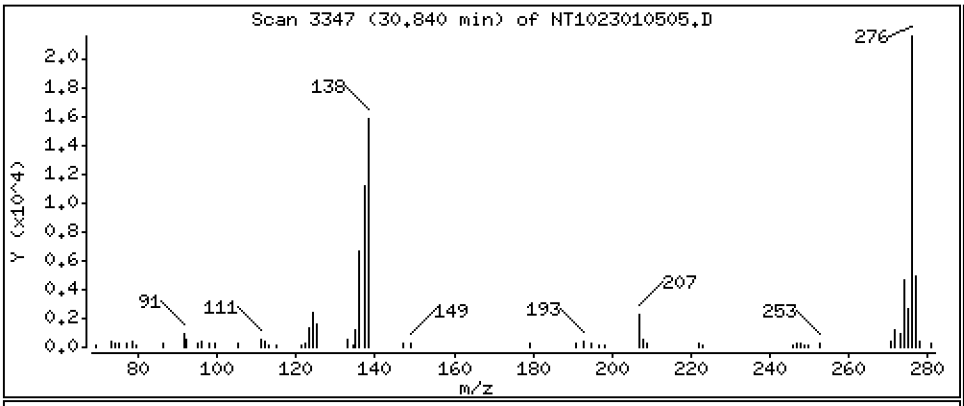
Operator: VTS

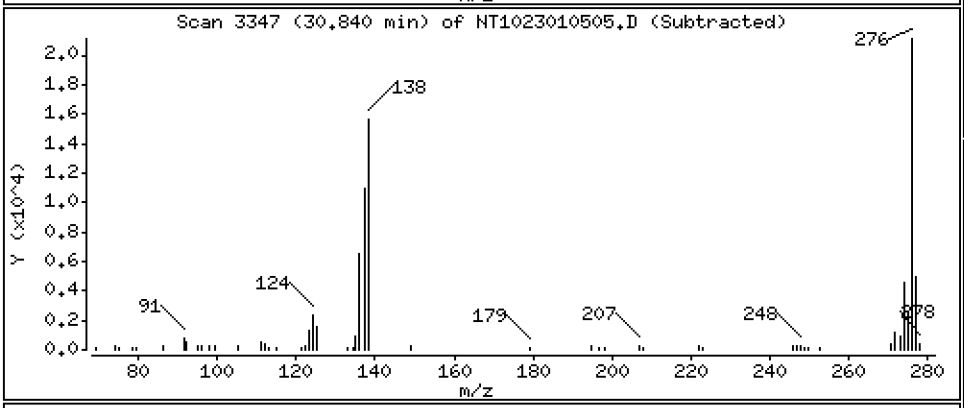
Column phase: ZB-5msi

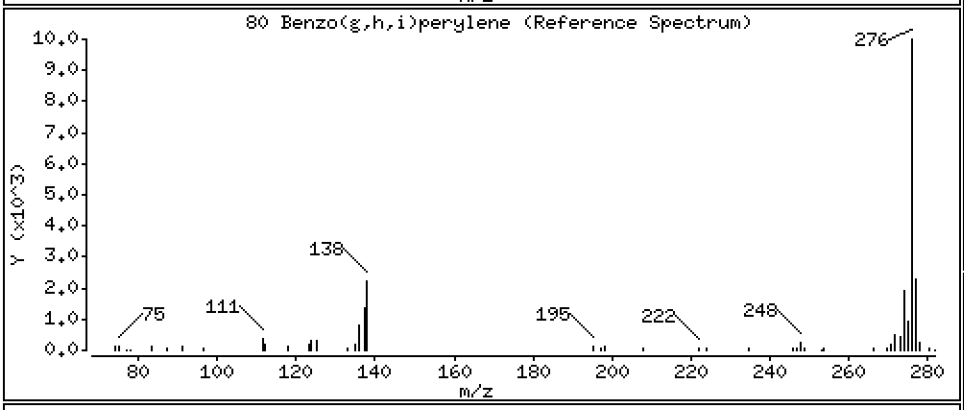
Column diameter: 0.25

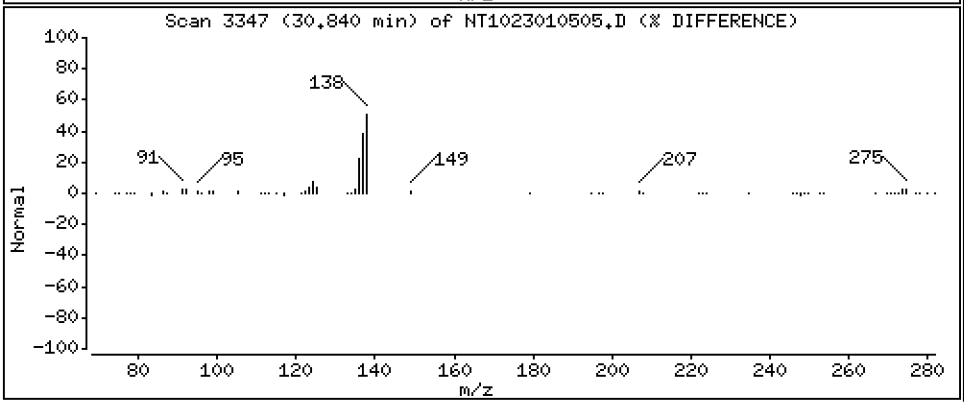
80 Benzo(g,h,i)perylene

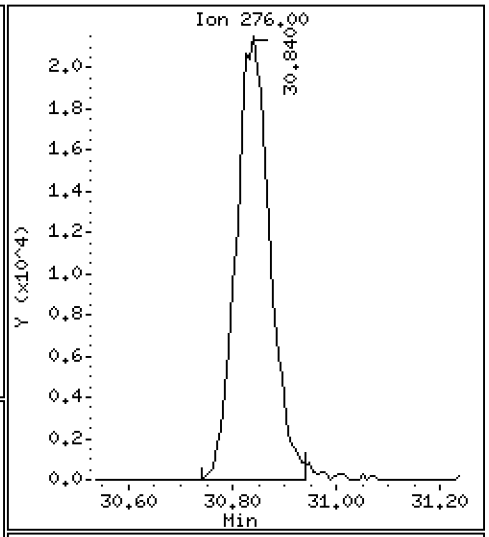
Concentration: 5.131 ug/mL

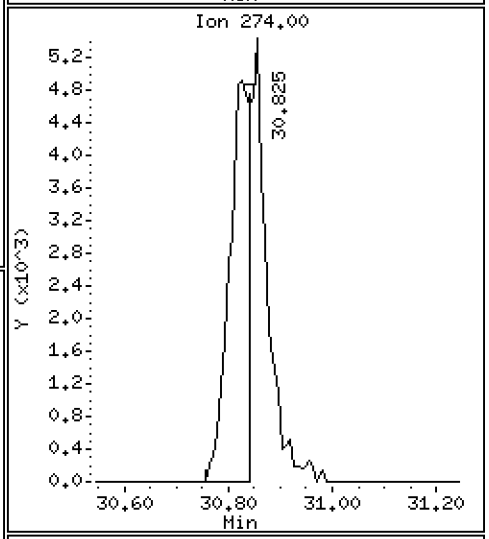


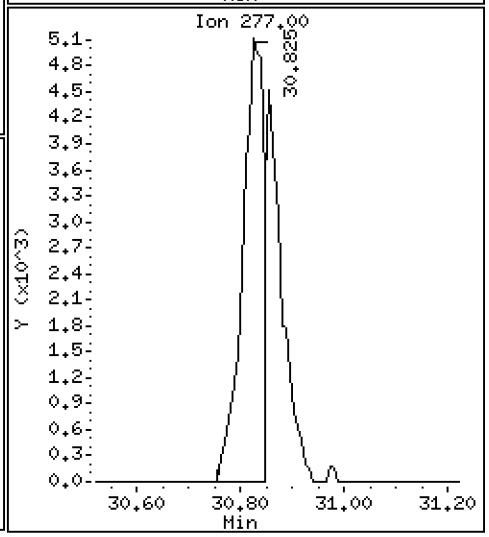












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

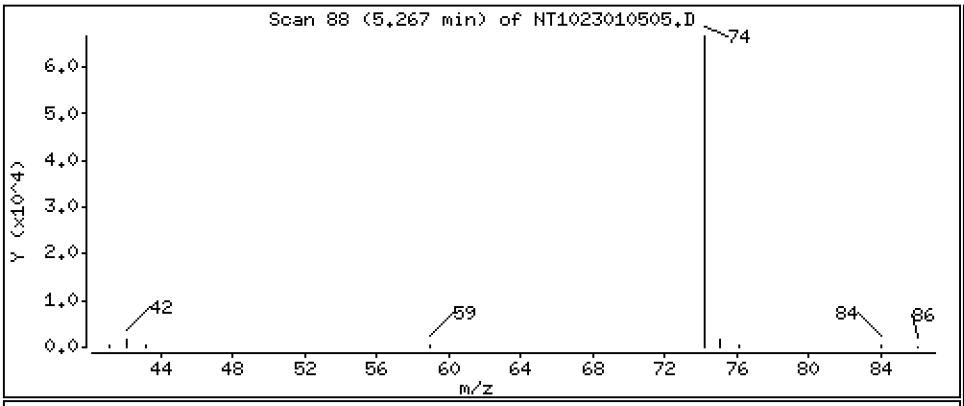
Operator: VTS

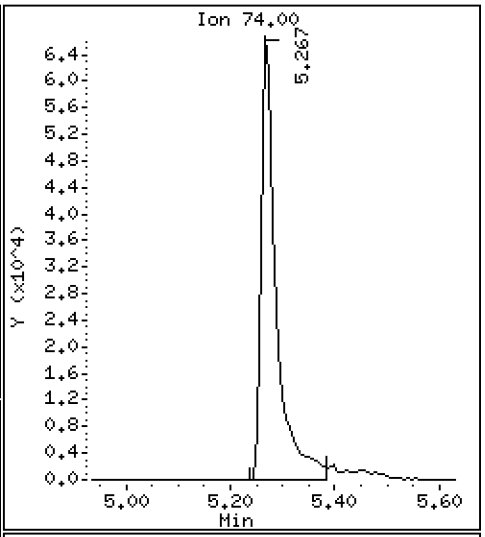
Column phase: ZB-5msi

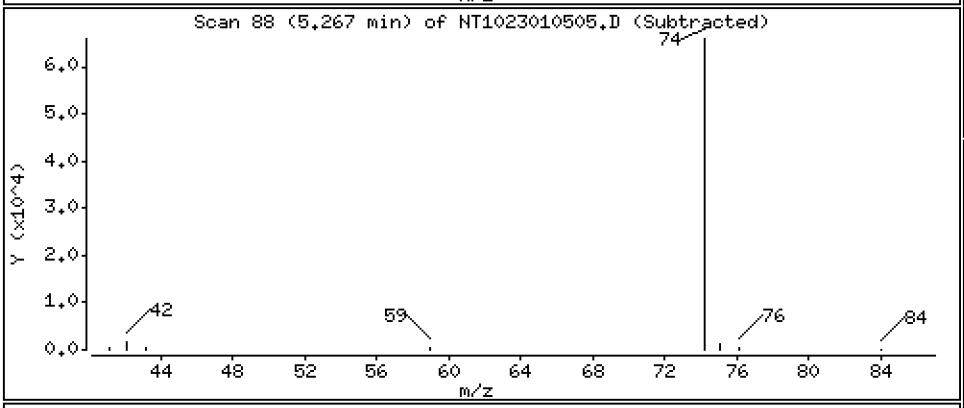
Column diameter: 0.25

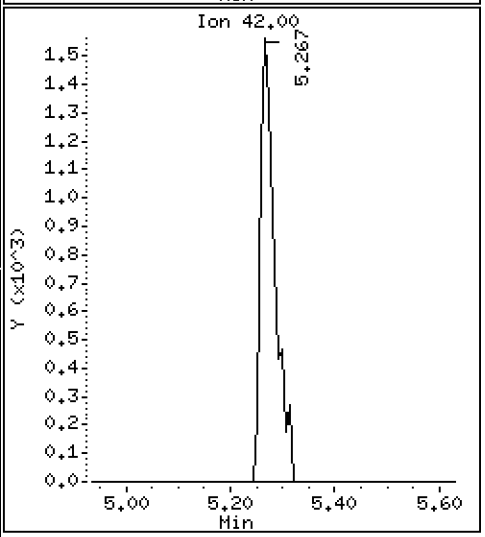
90 N-Nitrosodimethylamine

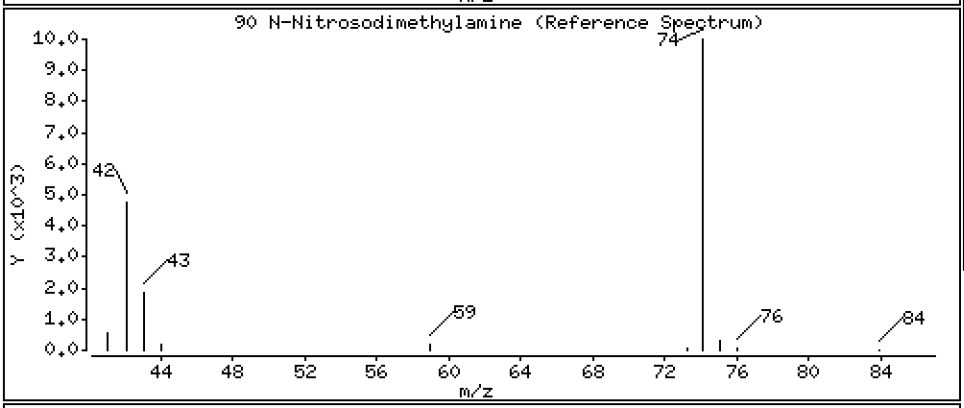
Concentration: 10.87 ug/mL

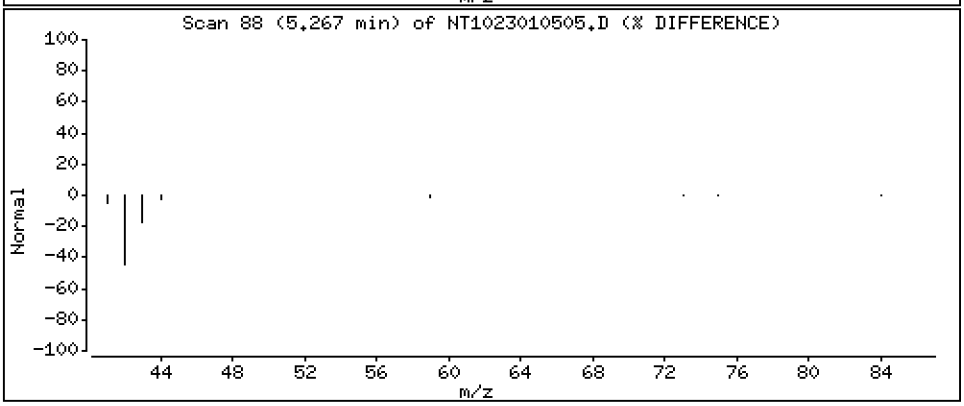












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

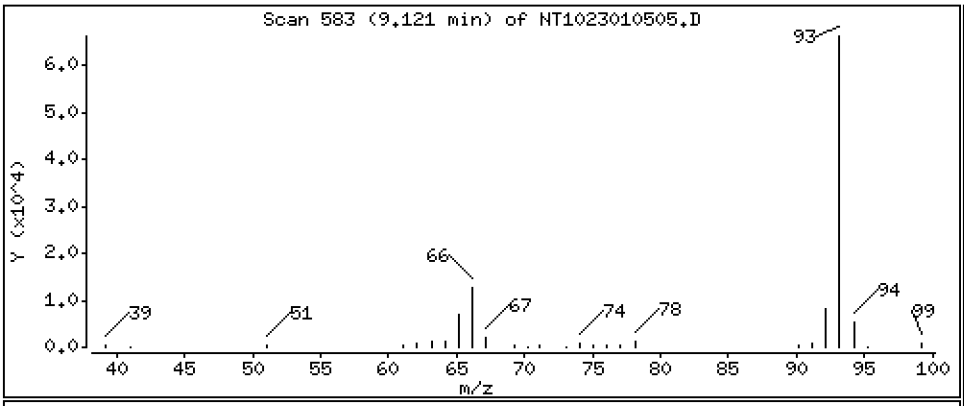
Operator: VTS

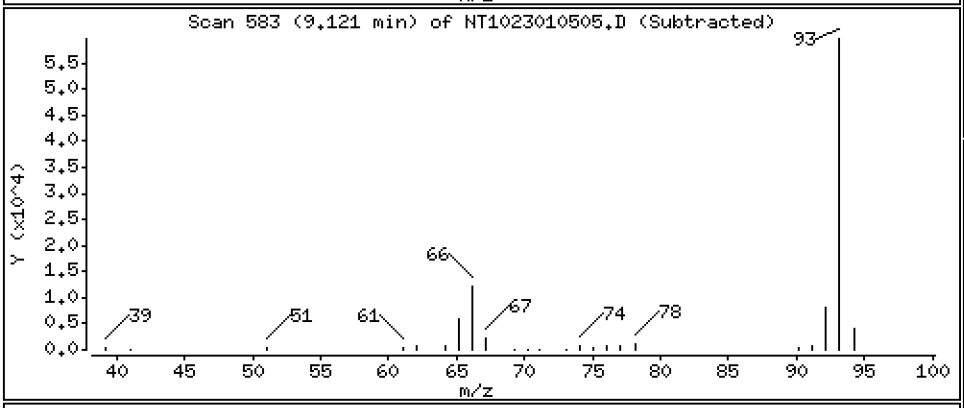
Column phase: ZB-5msi

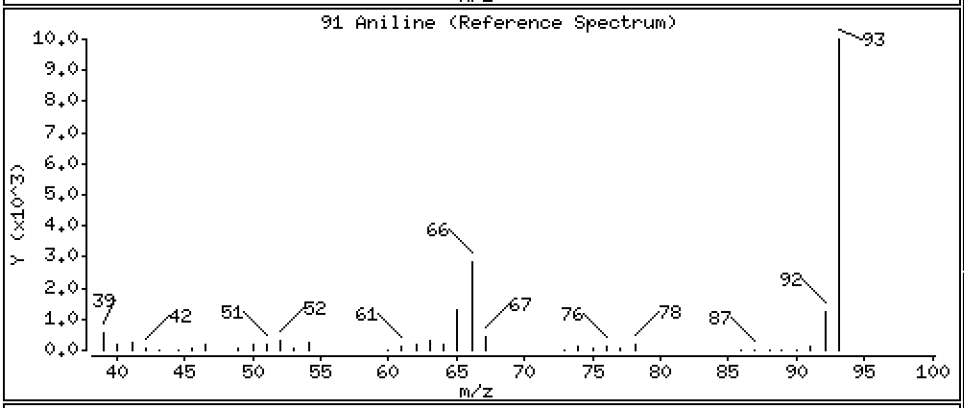
Column diameter: 0.25

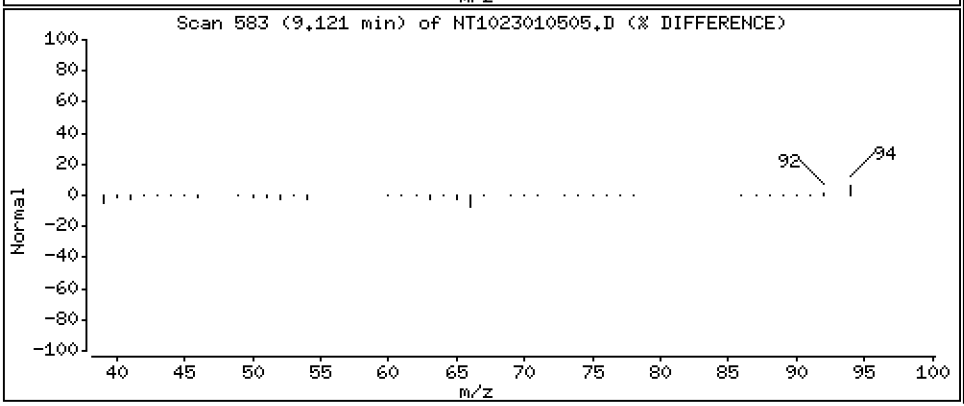
91 Aniline

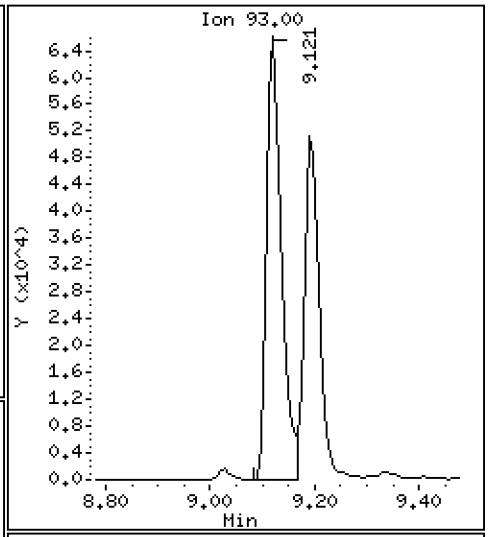
Concentration: 5.435 ug/mL

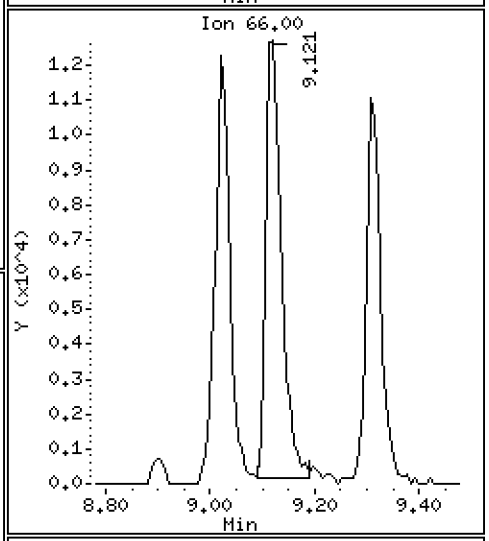


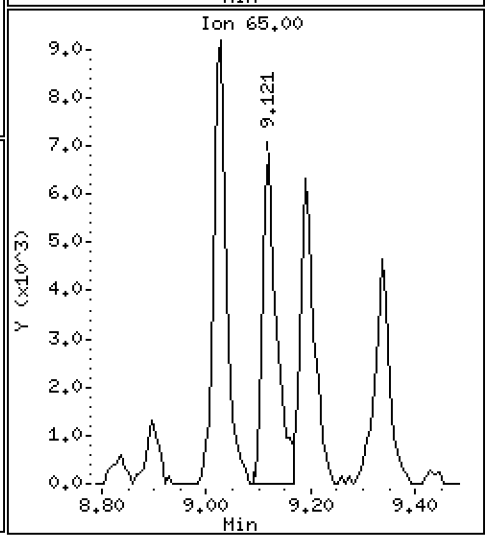












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

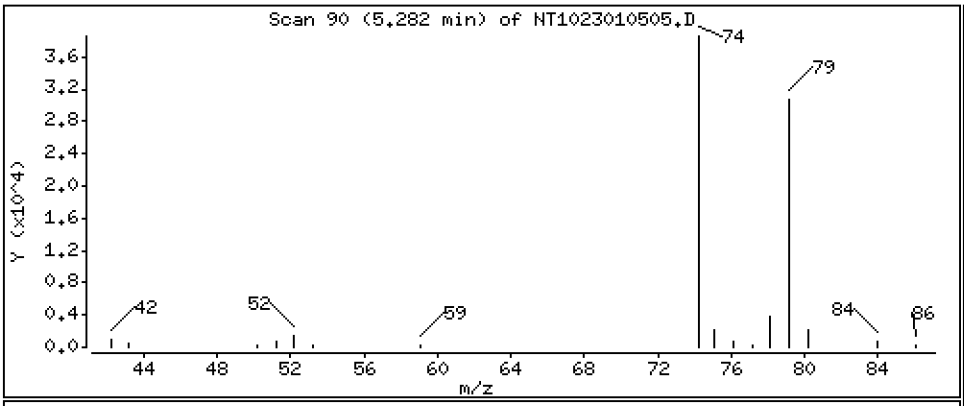
Operator: VTS

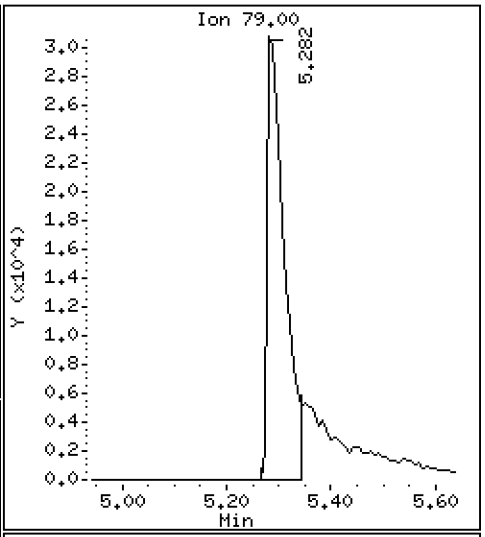
Column phase: ZB-5msi

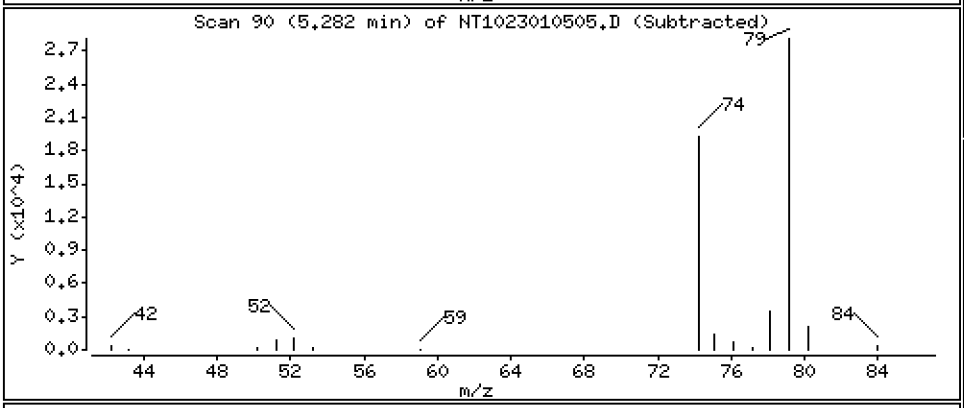
Column diameter: 0.25

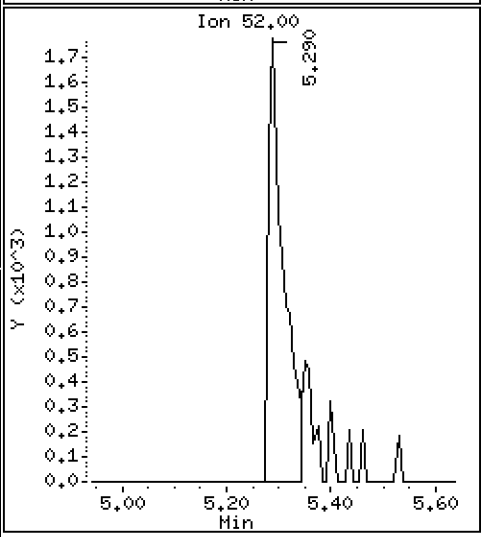
103 Pyridine

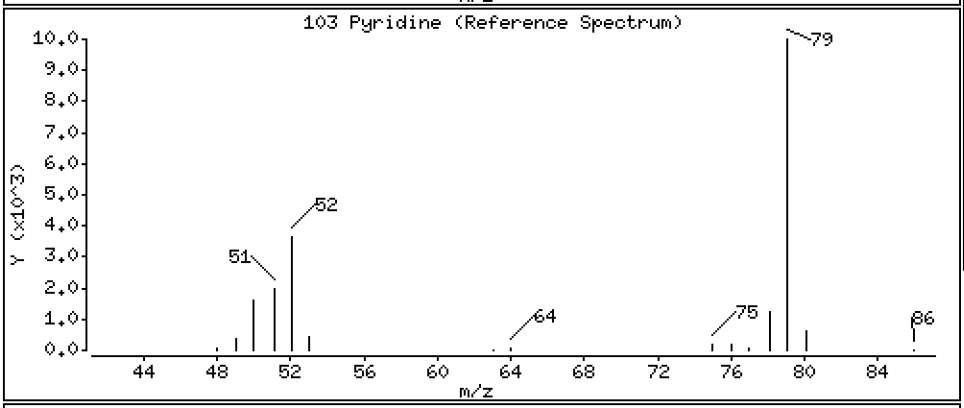
Concentration: 1.938 ug/mL

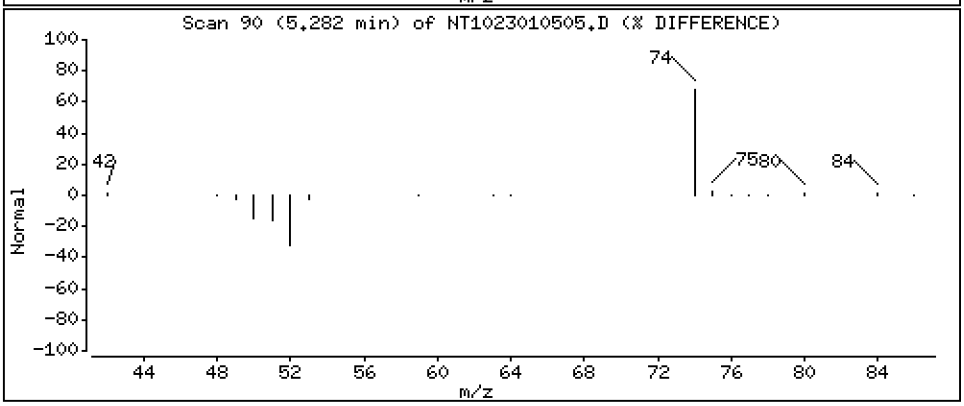












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

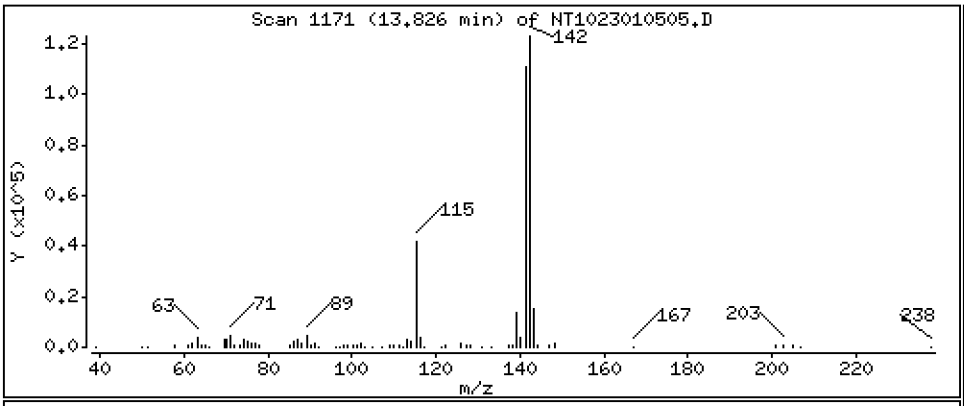
Operator: VTS

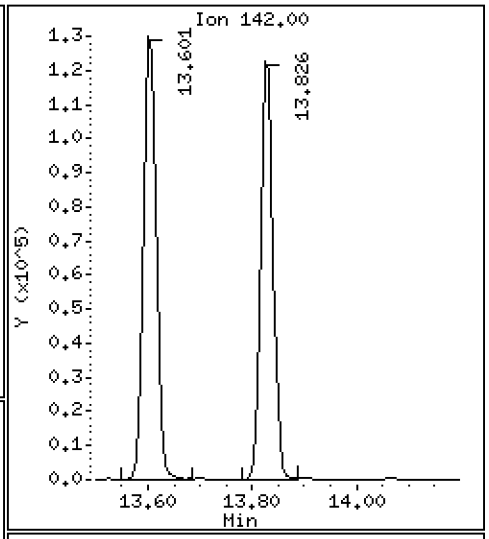
Column phase: ZB-5msi

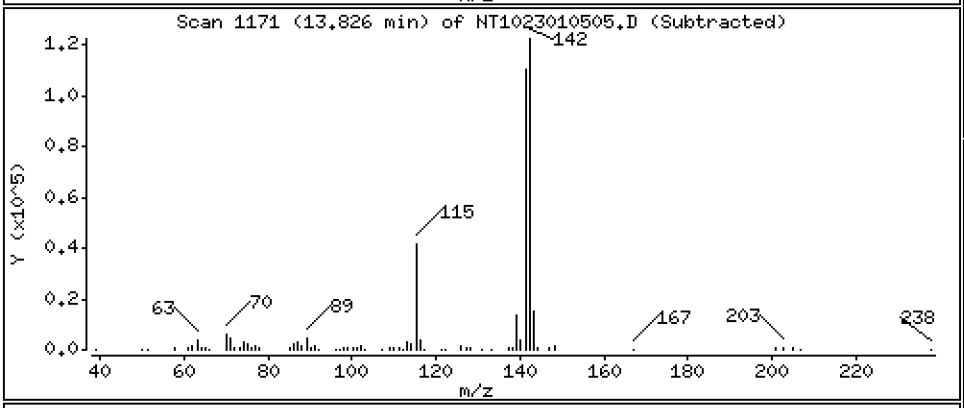
Column diameter: 0.25

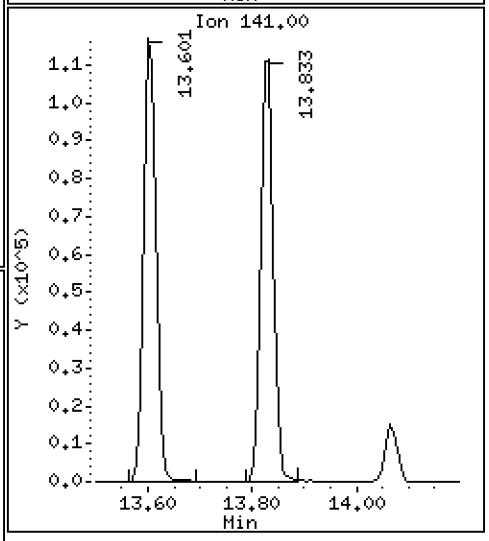
105 1-methylnaphthalene

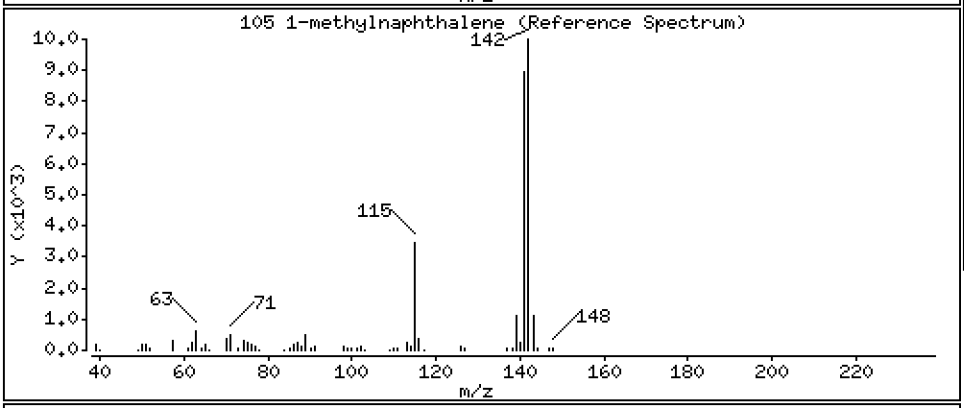
Concentration: 4.703 ug/mL

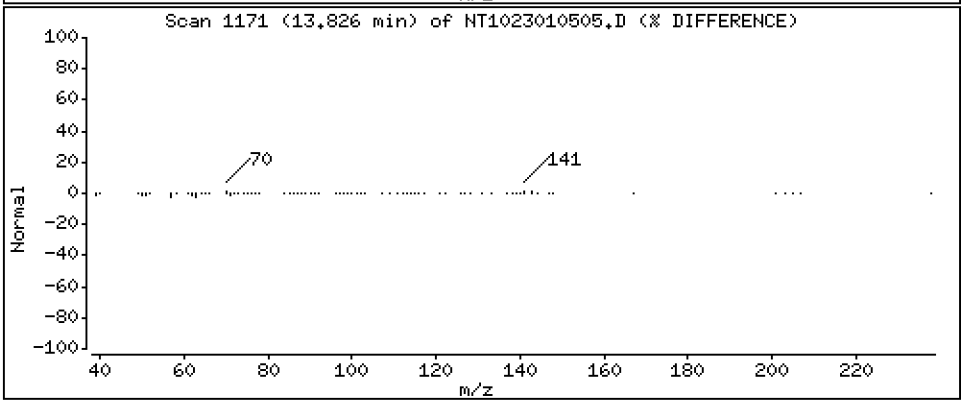












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D

Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

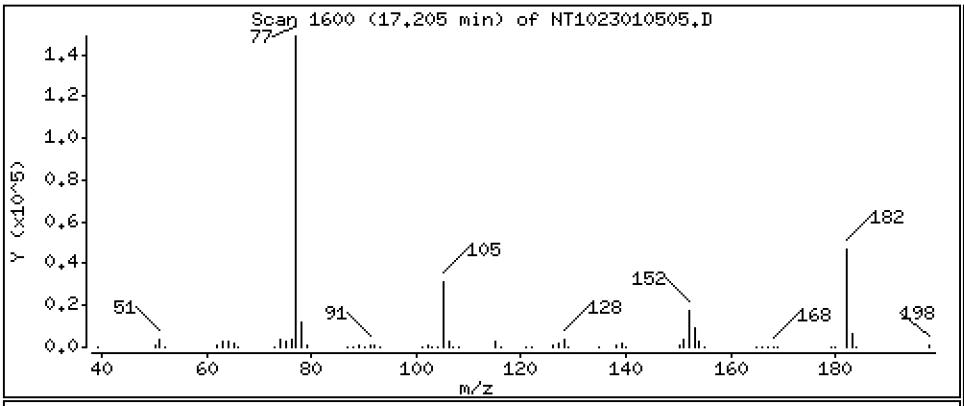
Operator: VTS

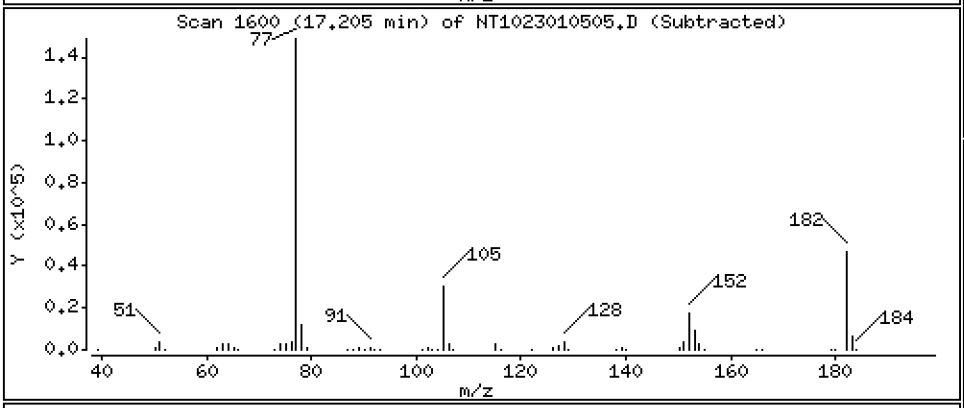
Column phase: ZB-5msi

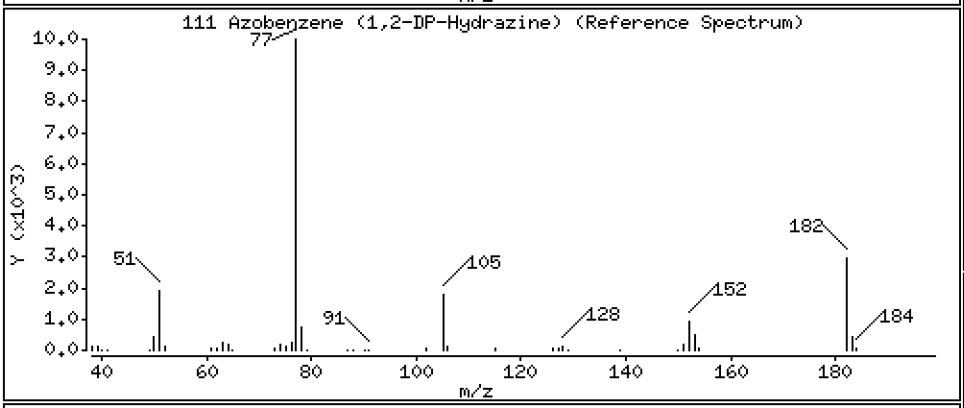
Column diameter: 0.25

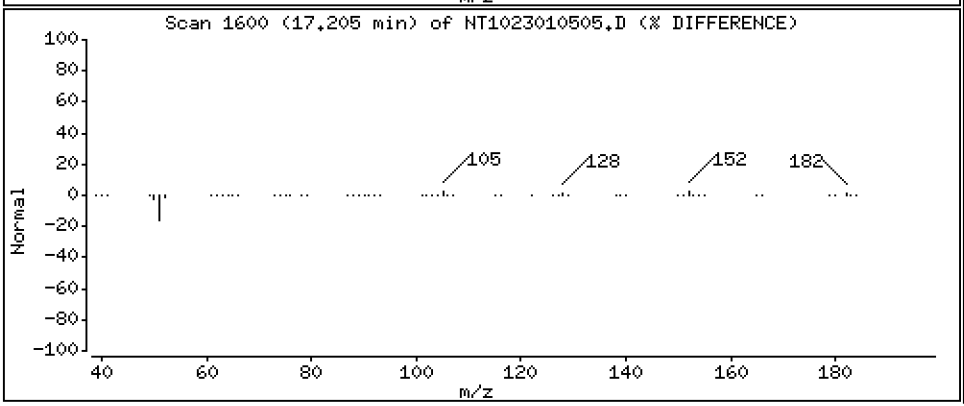
111 Azobenzene (1,2-DP-Hydrazine)

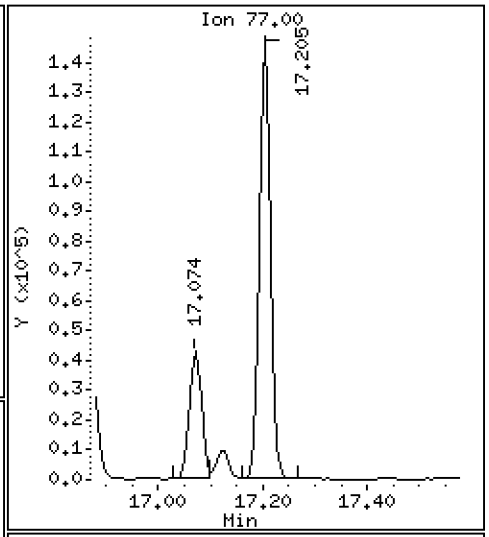
Concentration: 4.856 ug/mL

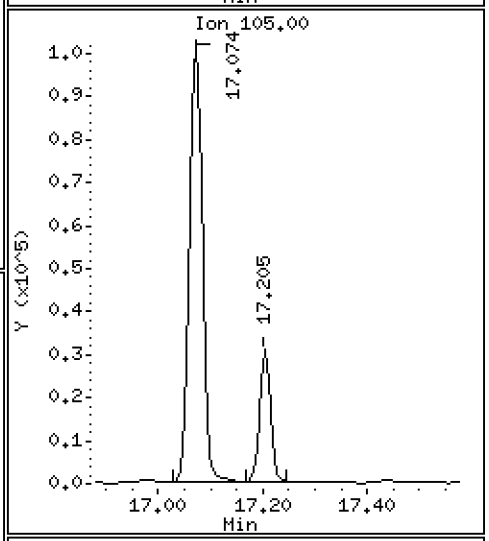


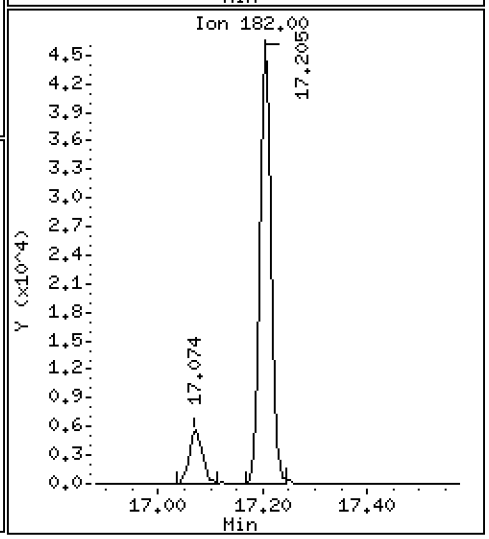












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Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

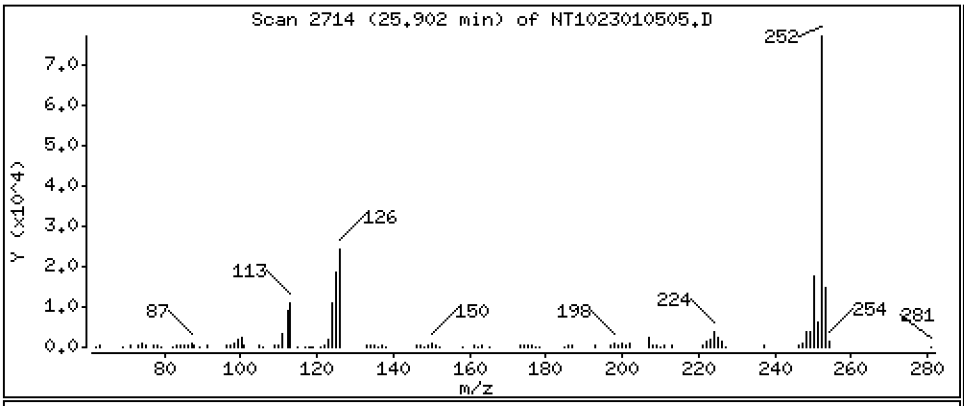
Operator: VTS

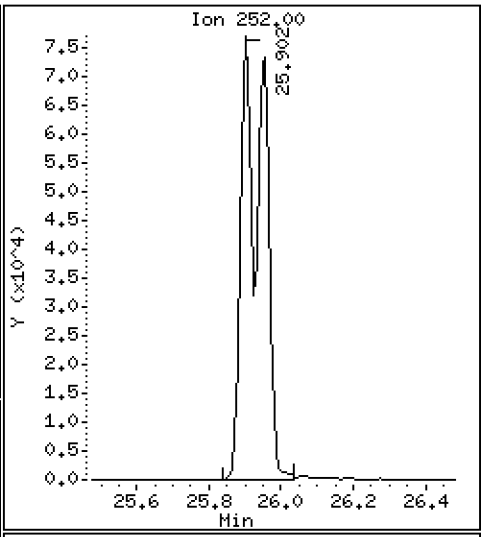
Column phase: ZB-5msi

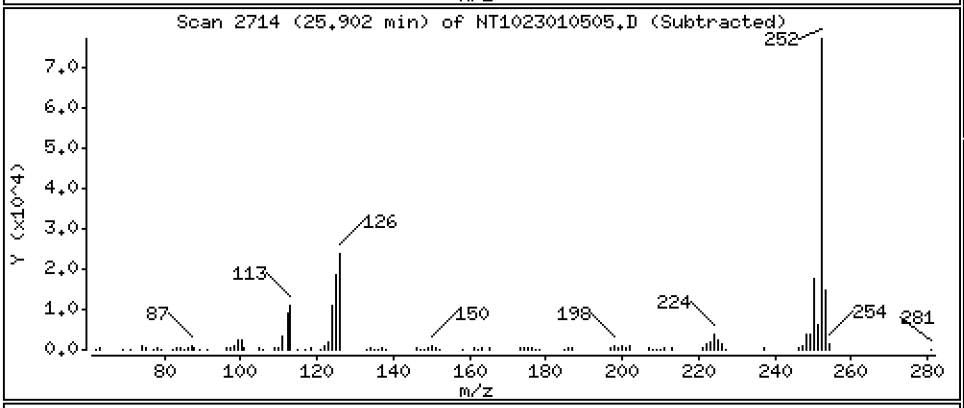
Column diameter: 0.25

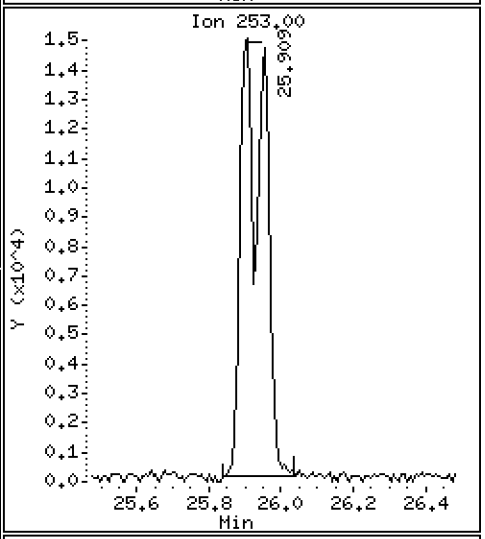
187 Total Benzofluoranthenes

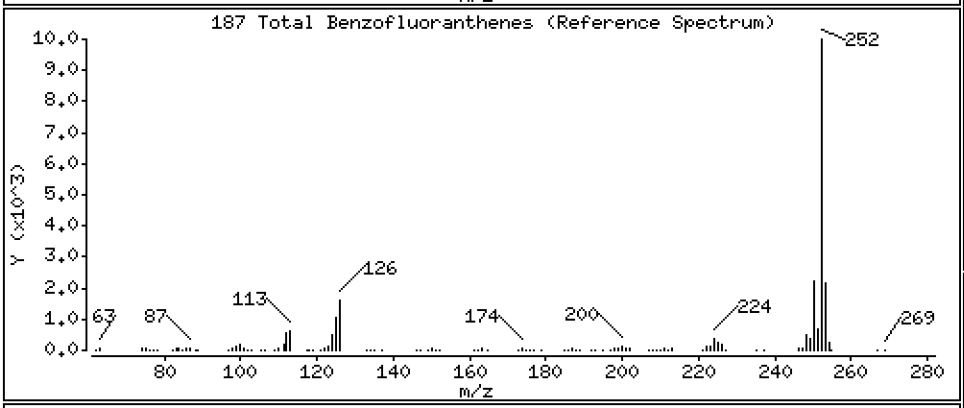
Concentration: 11.23 ug/mL

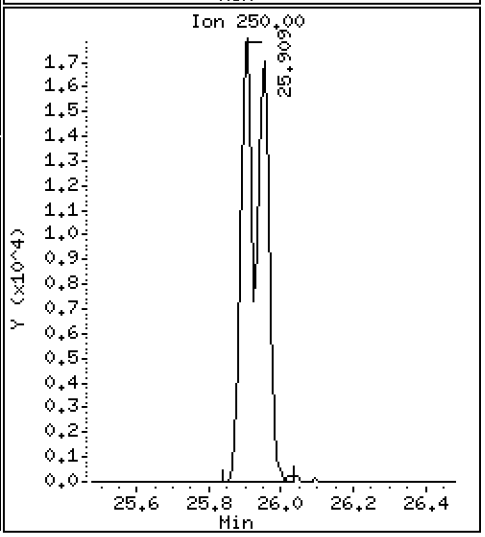


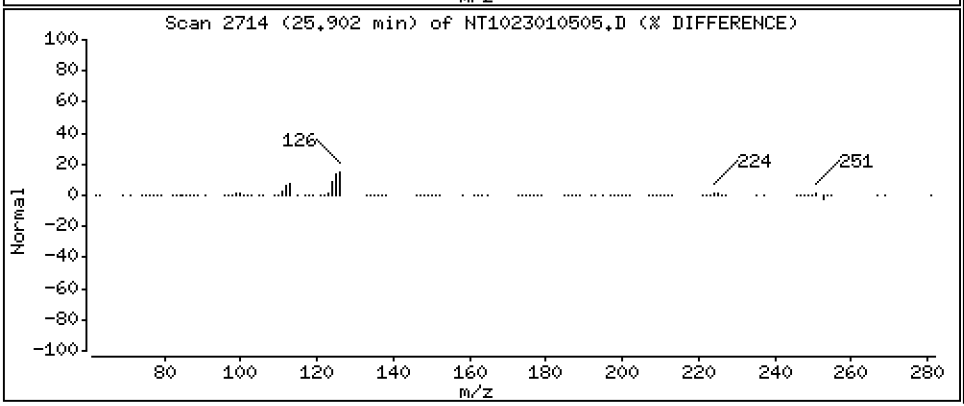












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D

Date : 05-JAN-2023 15:56

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BS1

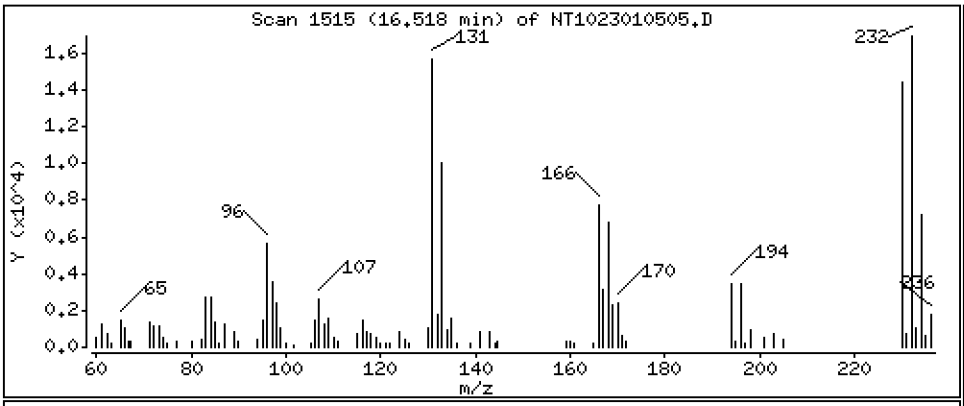
Operator: VTS

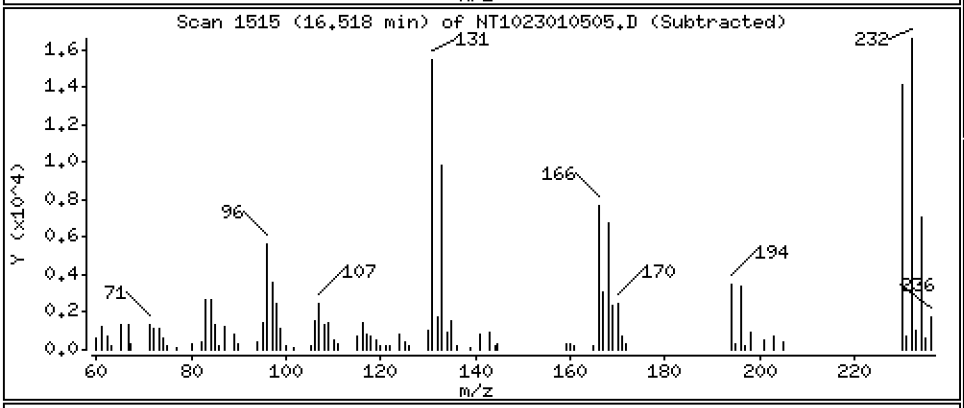
Column phase: ZB-5msi

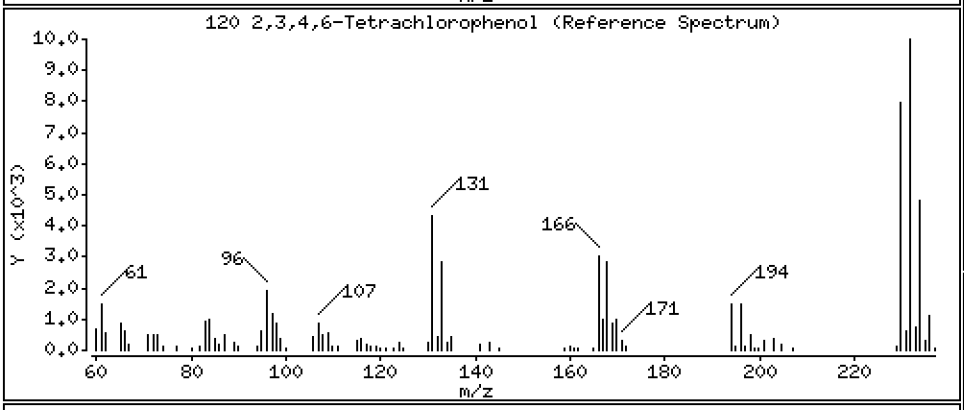
Column diameter: 0.25

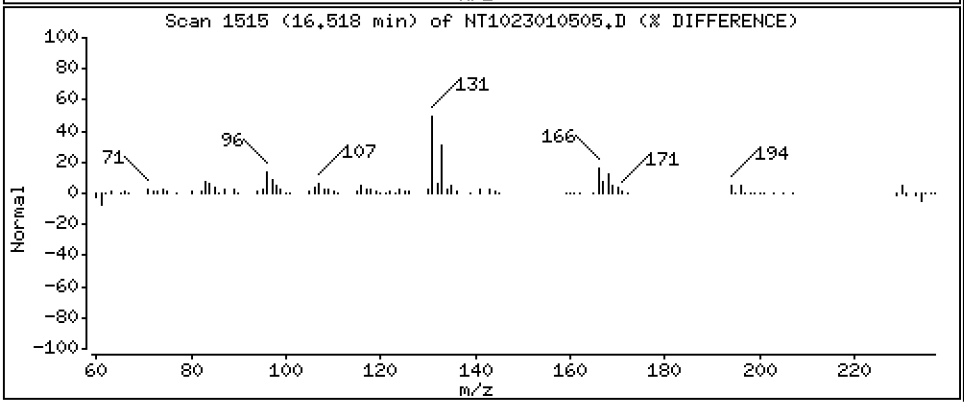
120 2,3,4,6-Tetrachlorophenol

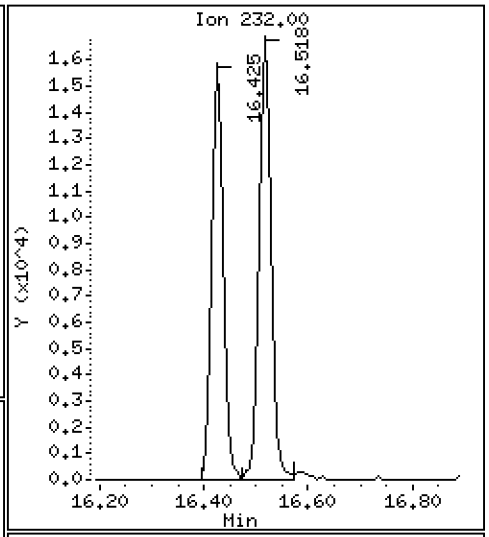
Concentration: 4.649 ug/mL

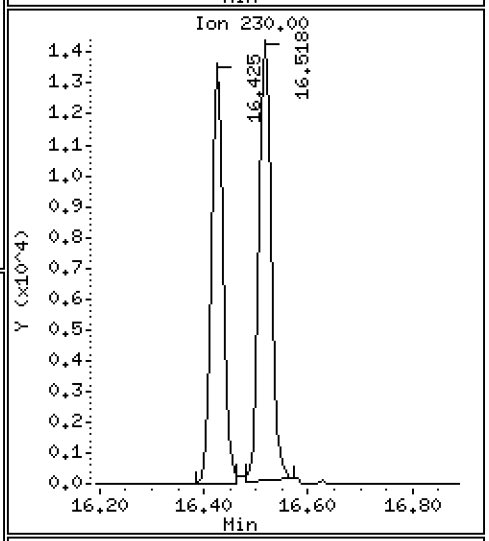


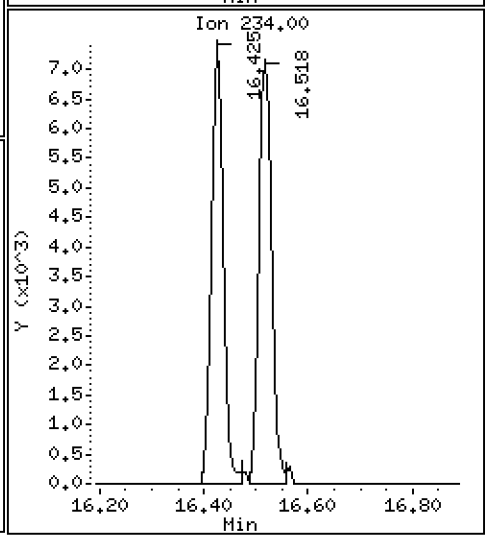












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010505.D
Lab Smp Id: BKL0489-BS1
Inj Date : 05-JAN-2023 15:56
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	146511	6.73209	6.732
$	2 Phenol-d5	99	9.005	9.012	(0.931)	183411	7.01106	7.011
	3 Phenol	94	9.028	9.036	(0.934)	113379	4.52978	4.530
$	5 2-Chlorophenol-d4	132	9.306	9.321	(0.962)	174541	7.68505	7.685
	4 Bis(2-Chloroethyl)ether	93	9.190	9.205	(0.950)	96932	4.47788	4.478
	6 2-Chlorophenol	128	9.337	9.344	(0.966)	110408	4.58664	4.587
	7 1,3-Dichlorobenzene	146	9.608	9.623	(0.994)	111632	4.41793	4.418
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	66003	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.716	(1.003)	95501	4.39508	4.395
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	65087	4.60062	4.601
	12 1,2-Dichlorobenzene	146	10.058	10.073	(1.040)	98678	4.47541	4.475
	11 Benzyl alcohol	108	9.926	9.941	(1.026)	57006	4.80695	4.807
	14 2,2'-oxybis(1-Chloropropane)	121	10.228	10.244	(1.058)	33586	5.17263	5.173
	13 2-Methylphenol	108	10.143	10.158	(1.049)	65763	3.90774	3.908
	17 Hexachloroethane	117	10.663	10.679	(1.103)	42491	4.45408	4.454
	16 N-Nitroso-di-n-propylamine	70	10.485	10.500	(1.084)	43449	4.89291	4.893
	15 4-Methylphenol	108	10.415	10.422	(1.077)	67492	5.64579	5.646
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	80431	4.71033	4.710
	19 Nitrobenzene	77	10.803	10.810	(0.888)	75486	4.83724	4.837
	20 Isophorone	82	11.245	11.261	(0.924)	162183	6.58623	6.586
	21 2-Nitrophenol	139	11.434	11.442	(0.940)	68076	4.72139	4.721
	22 2,4-Dimethylphenol	107	11.459	11.476	(0.942)	158323	8.02964	8.030
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	95435	5.58959	5.590
	24 Benzoic acid	105	11.663	11.671	(0.958)	227741	25.6832	25.68
	25 2,4-Dichlorophenol	162	11.883	11.900	(0.976)	260637	16.4193	16.42
	26 1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	77983	4.74866	4.749
*	27 Naphthalene-d8	136	12.170	12.185	(1.000)	255276	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	269096	4.79390	4.794
	29 4-Chloroaniline	127	12.324	12.339	(1.013)	139618	6.22671	6.227
	30 Hexachlorobutadiene	225	12.564	12.579	(1.032)	28939	4.74196	4.742
	31 4-Chloro-3-methylphenol	107	13.268	13.291	(1.090)	287230	16.4749	16.47
	32 2-Methylnaphthalene	142	13.601	13.624	(1.118)	213554	4.81013	4.810
	33 Hexachlorocyclopentadiene	237	14.065	14.088	(0.891)	89931	13.3700	13.37

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	14.220	14.235	(0.901)	187480	17.8904	17.89
	35 2,4,5-Trichlorophenol	196	14.297	14.312	(0.905)	209081	18.2230	18.22
$	36 2-Fluorobiphenyl	172	14.375	14.398	(0.910)	209142	4.77242	4.772
	37 2-Chloronaphthalene	162	14.599	14.622	(0.925)	188525	4.81531	4.815
	38 2-Nitroaniline	65	14.847	14.862	(0.940)	94872	16.6107	16.61
	39 Dimethylphthalate	163	15.265	15.280	(0.967)	193040	5.41147	5.411
	40 Acenaphthylene	152	15.481	15.497	(0.980)	265657	4.72297	4.723
	41 2,6-Dinitrotoluene	165	15.412	15.427	(0.976)	147906	18.2544	18.25
*	42 Acenaphthene-d10	164	15.791	15.814	(1.000)	118290	4.00000	
	43 3-Nitroaniline	138	15.714	15.721	(0.995)	84331	13.6945	13.69
	44 Acenaphthene	153	15.860	15.876	(1.004)	158193	5.06797	5.068
	45 2,4-Dinitrophenol	184	15.915	15.938	(1.008)	168459	29.1680	29.17
	46 Dibenzofuran	168	16.185	16.208	(1.025)	235735	4.97008	4.970
	47 4-Nitrophenol	109	16.015	16.038	(1.014)	81500	17.2024	17.20
	48 2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	195458	17.9779	17.98
	50 Diethylphthalate	149	16.719	16.742	(1.059)	229047	6.08800	6.088
	49 Fluorene	166	16.904	16.919	(1.070)	358356	5.14644	5.146
	51 4-Chlorophenyl-phenylether	204	16.873	16.896	(1.069)	105485	4.71661	4.717
	52 4-Nitroaniline	138	16.981	17.004	(1.075)	240307	14.7683	14.77
	53 4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	324923	35.0304	35.03
	54 N-Nitrosodiphenylamine	169	17.128	17.143	(0.909)	160481	4.24110	4.241
$	55 2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	17287	7.11728	7.117
	56 4-Bromophenyl-phenylether	248	17.883	17.914	(0.949)	53646	5.38520	5.385
	57 Hexachlorobenzene	284	18.215	18.238	(0.967)	37179	4.36420	4.364
	58 Pentachlorophenol	266	18.571	18.594	(0.986)	39038	22.1604	22.16
*	59 Phenanthrene-d10	188	18.842	18.865	(1.000)	204433	4.00000	
	60 Phenanthrene	178	18.896	18.919	(1.003)	250393	5.04845	5.048
	61 Anthracene	178	18.981	19.005	(1.007)	211768	4.37386	4.374
	62 Carbazole	167	19.299	19.322	(1.024)	242600	4.64996	4.650
	63 Di-n-butylphthalate	149	20.049	20.072	(1.064)	409132	5.60230	5.602
	64 Fluoranthene	202	21.248	21.271	(0.891)	302518	5.20030	5.200
	65 Pyrene	202	21.666	21.689	(0.908)	306418	5.23812	5.238
$	66 Terphenyl-d14	244	21.929	21.952	(0.919)	165677	4.91712	4.917
	67 Butylbenzylphthalate	149	22.827	22.851	(0.957)	168841	5.37226	5.372
	68 Benzo(a)anthracene	228	23.819	23.842	(0.999)	186817	4.70654	4.707
*	69 Chrysene-d12	240	23.850	23.873	(1.000)	139051	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.757	23.780	(0.996)	100608	7.06883	7.069
	71 Chrysene	228	23.896	23.919	(1.002)	180396	5.24113	5.241
	72 bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	294418	6.08205	6.082
*	134 Di-n-octylphthalate-d4	153	24.903	24.926	(1.000)	315214	4.00000	
	73 Di-n-octylphthalate	149	24.910	24.941	(1.000)	409587	5.61912	5.619
	74 Benzo(b)fluoranthene	252	25.901	25.932	(0.967)	171852	5.49701	5.497
	75 Benzo(k)fluoranthene	252	25.955	25.978	(0.969)	173480	5.69543	5.695
	76 Benzo(a)pyrene	252	26.668	26.691	(0.995)	152020	5.09927	5.099
*	77 Perylene-d12	264	26.792	26.822	(1.000)	86789	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	29.908	29.946	(1.116)	124600	5.31717	5.317
	79 Dibenzo(a,h)anthracene	278	29.923	29.970	(1.117)	101553	5.51520	5.515
	80 Benzo(g,h,i)perylene	276	30.840	30.886	(1.151)	99192	5.13052	5.131
	90 N-Nitrosodimethylamine	74	5.267	5.282	(0.545)	133874	10.8701	10.87
	91 Aniline	93	9.121	9.128	(0.943)	125985	5.43494	5.435
	93 Benzidine	184	Compound Not Detected.					
	103 Pyridine	79	5.282	5.290	(0.546)	68350	1.93760	1.938
	105 1-methylnaphthalene	142	13.825	13.848	(1.136)	204027	4.70317	4.703
	111 Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	226543	4.85608	4.856

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.978	(0.967)	332398	11.2290	11.23
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.541	(1.046)	28407	4.64892	4.649

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010505.D
Lab Smp Id: BKL0489-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	66003	-19.24
27 Naphthalene-d8	307034	153517	614068	255276	-16.86
42 Acenaphthene-d10	140557	70279	281114	118290	-15.84
59 Phenanthrene-d10	243620	121810	487240	204433	-16.09
69 Chrysene-d12	144852	72426	289704	139051	-4.00
134 Di-n-octylphthala	387178	193589	774356	315214	-18.59
77 Perylene-d12	106683	53342	213366	86789	-18.65

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.79	-0.11

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010505.D

Lab ID: BKL0489-BS1
nt10.i, ABN.m, 05-JAN-2023 15:56

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

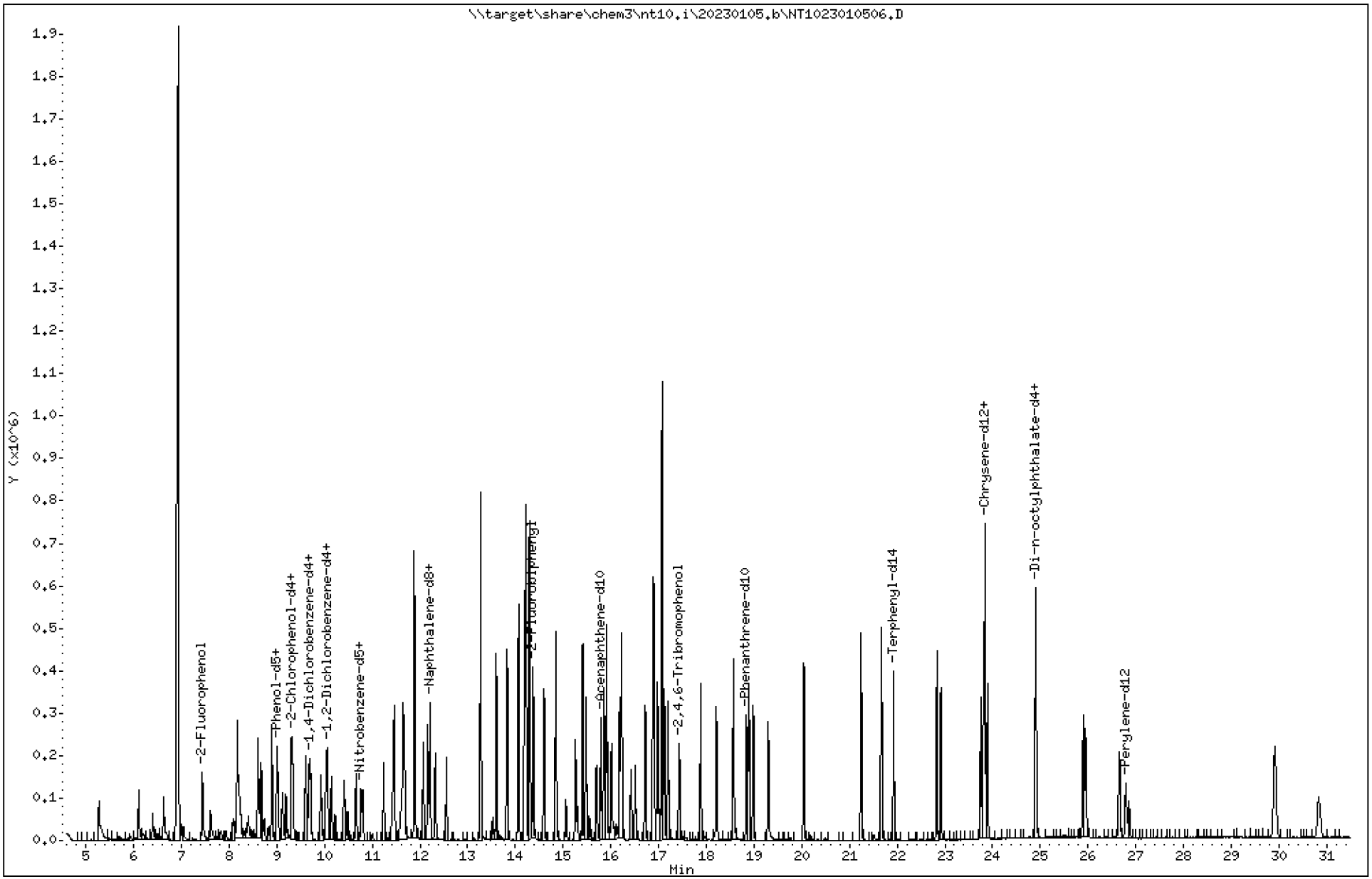
RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D
Date : 05-JAN-2023 16:35
Client ID:
Sample Info: BKL0489-BSD1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

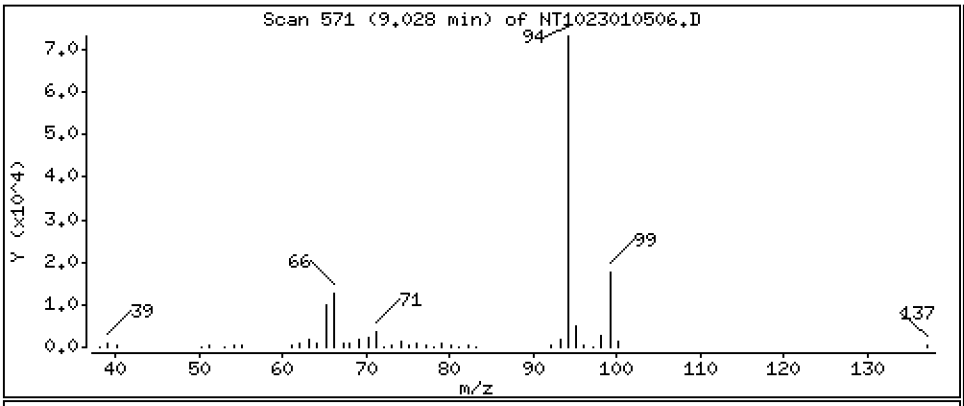
Operator: VTS

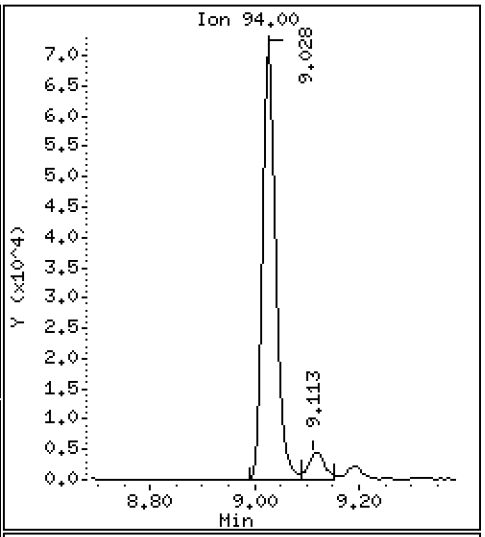
Column phase: ZB-5msi

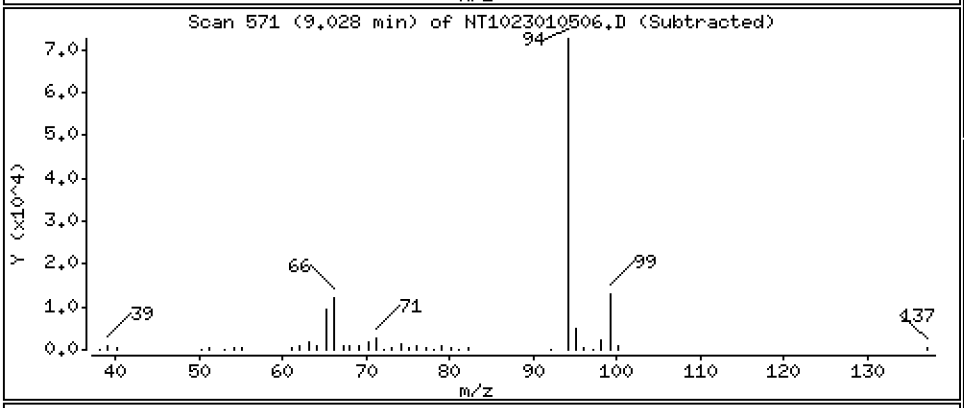
Column diameter: 0.25

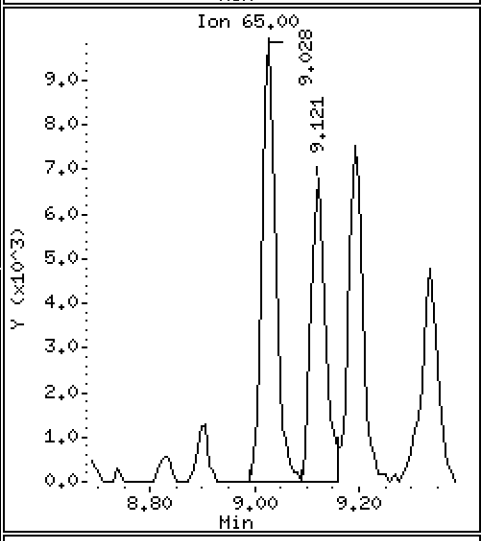
3 Phenol

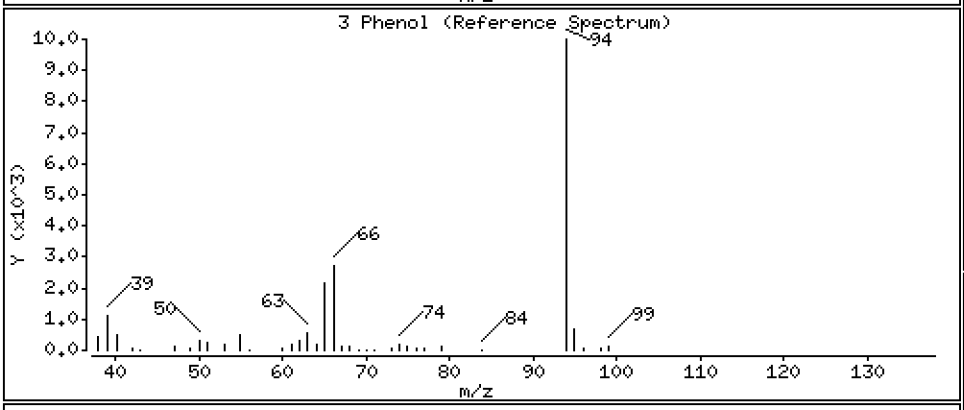
Concentration: 4.657 ug/mL

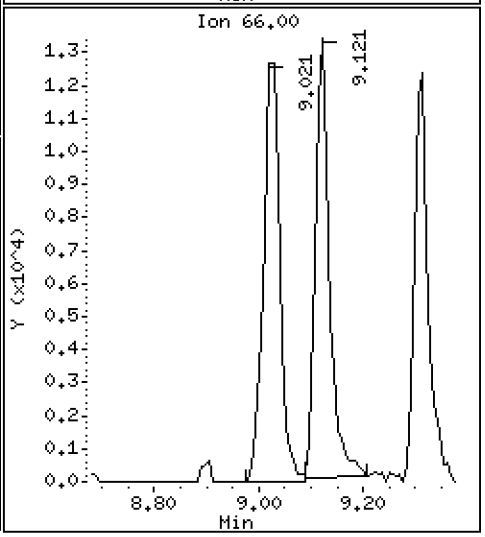


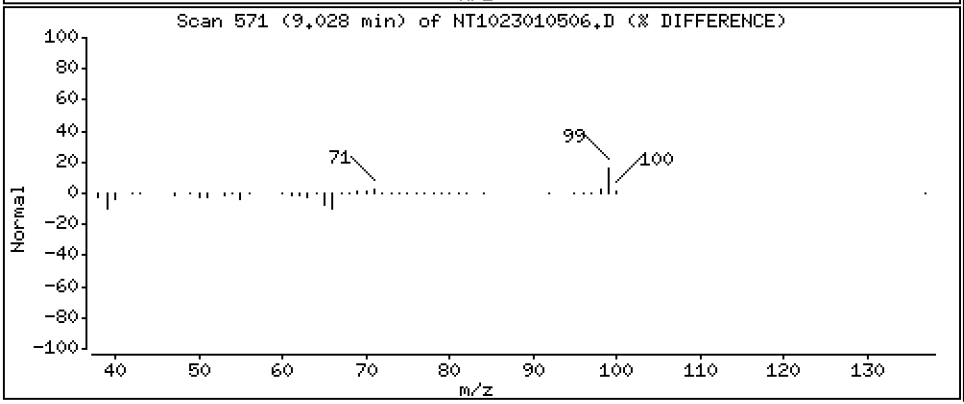












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

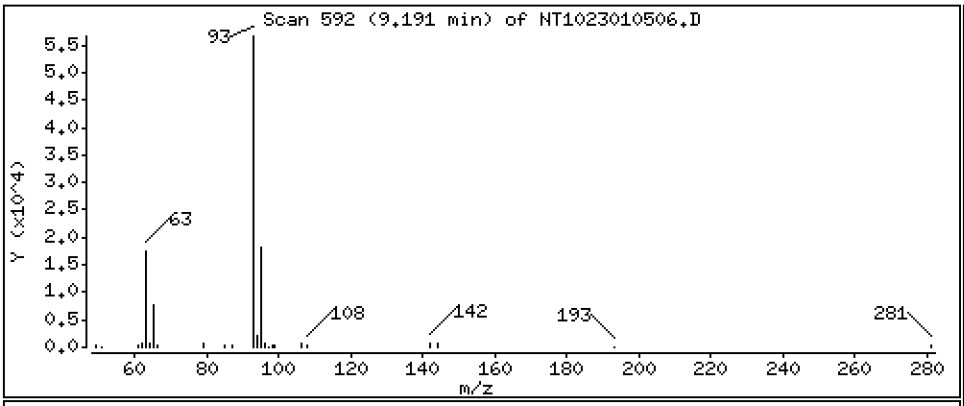
Operator: VTS

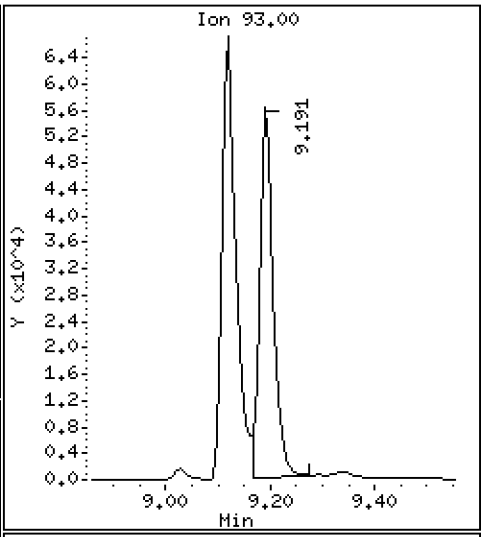
Column phase: ZB-5msi

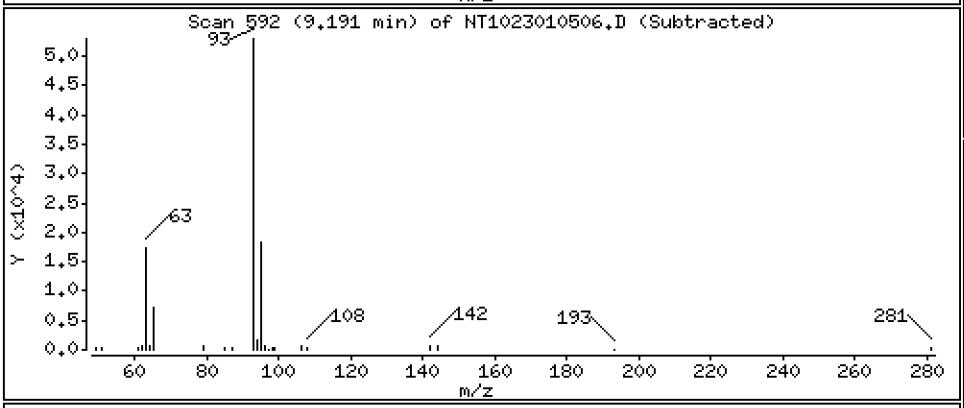
Column diameter: 0.25

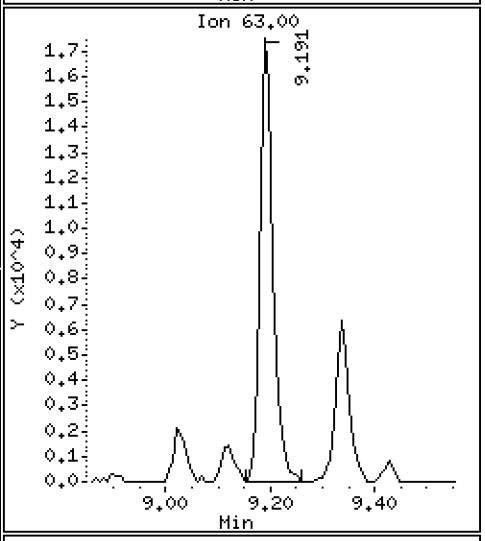
4 Bis(2-Chloroethyl)ether

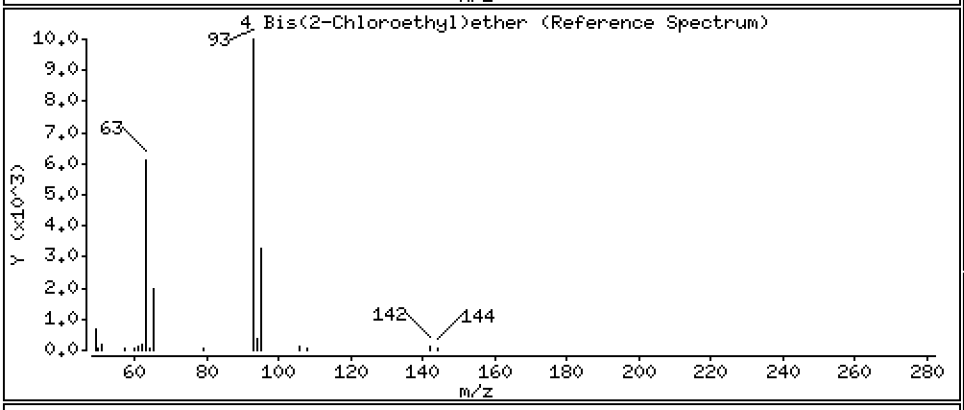
Concentration: 4.541 ug/mL

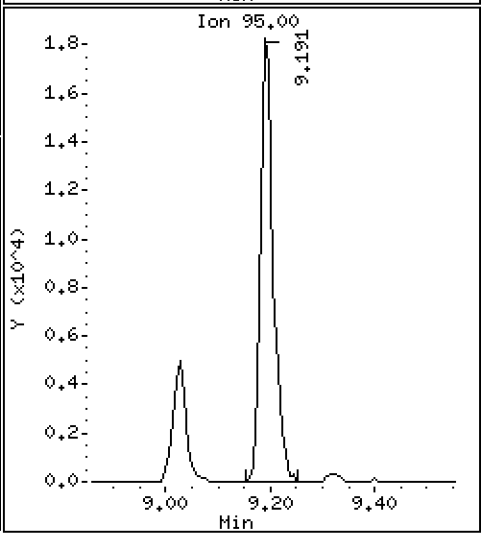


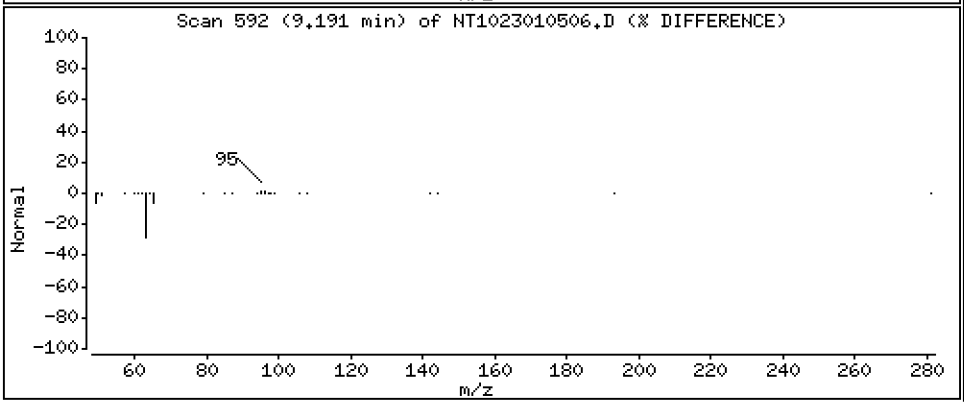












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

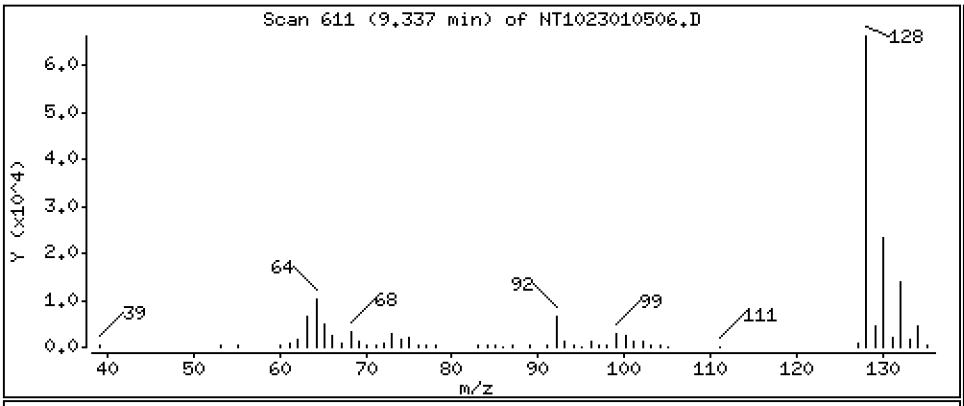
Operator: VTS

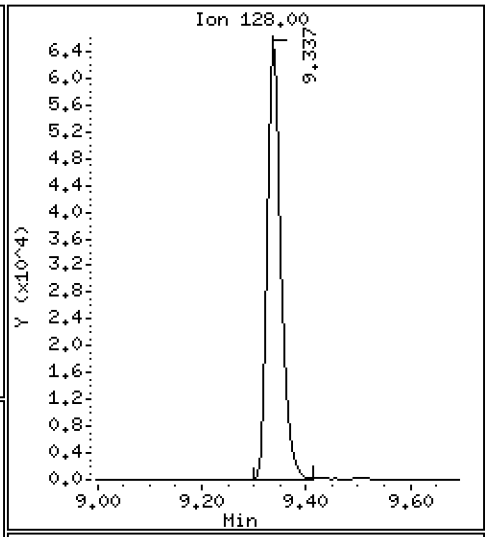
Column phase: ZB-5msi

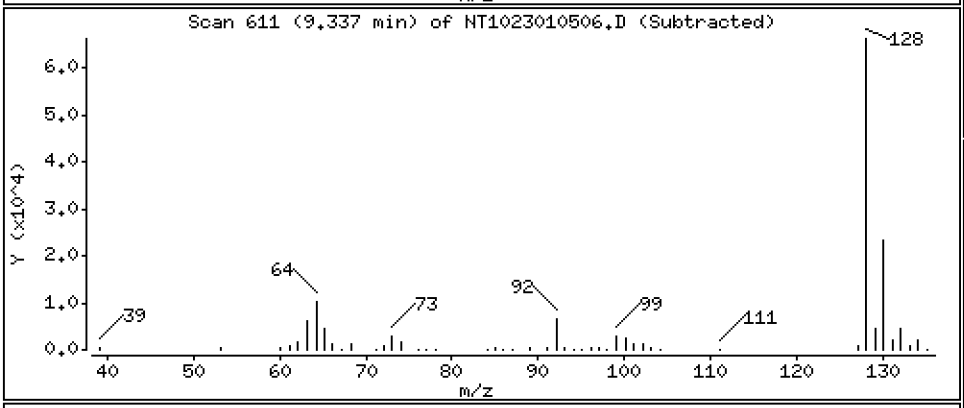
Column diameter: 0.25

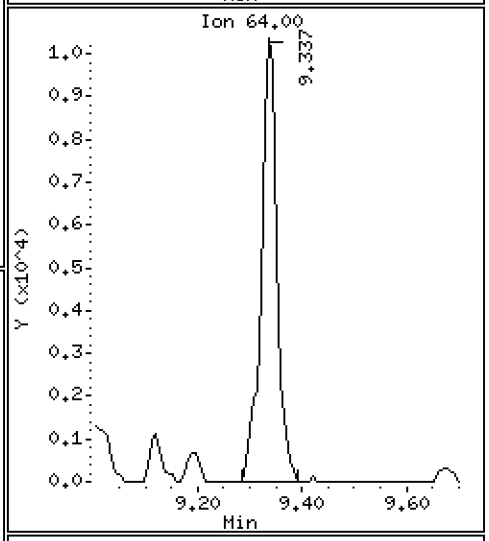
6 2-Chlorophenol

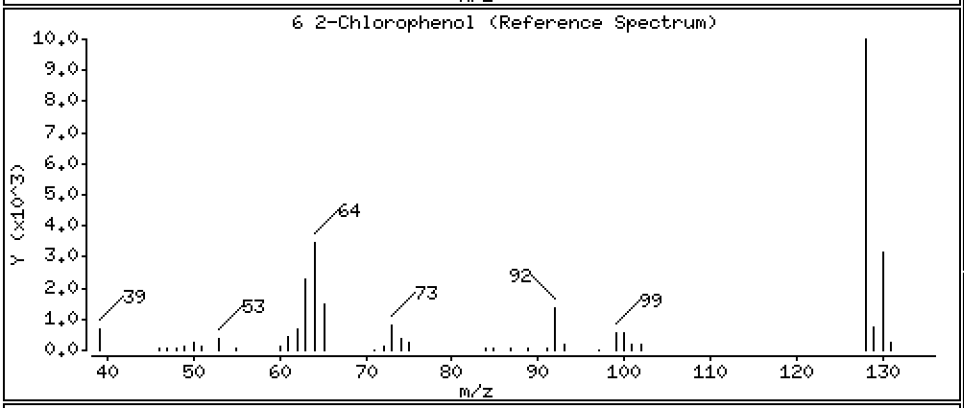
Concentration: 4.898 ug/mL

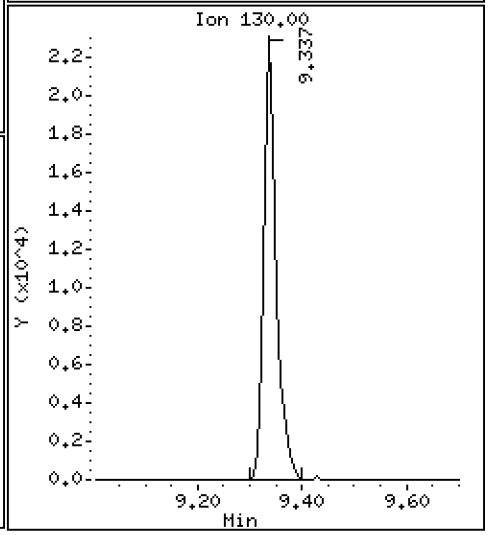


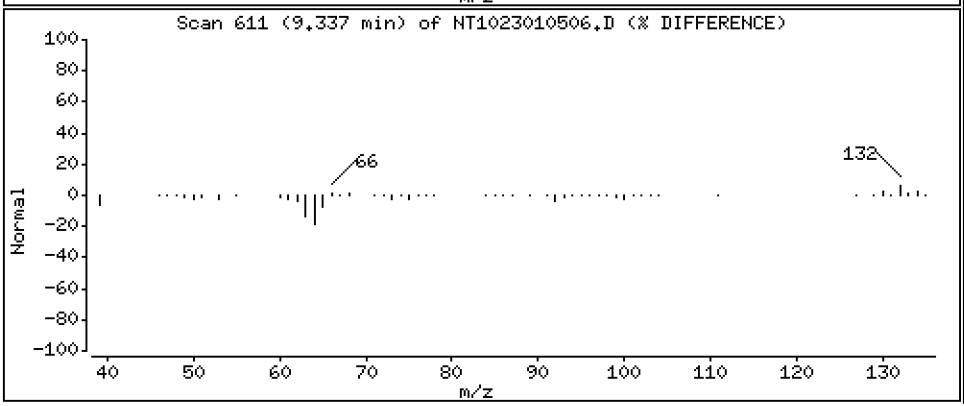












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

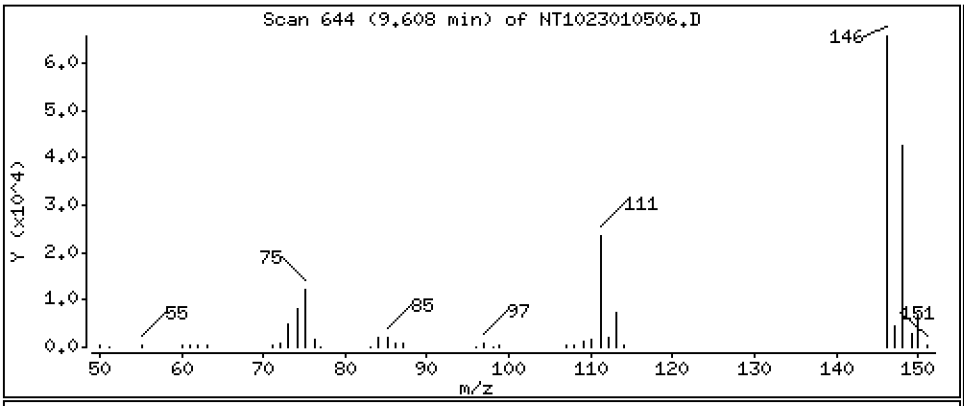
Operator: VTS

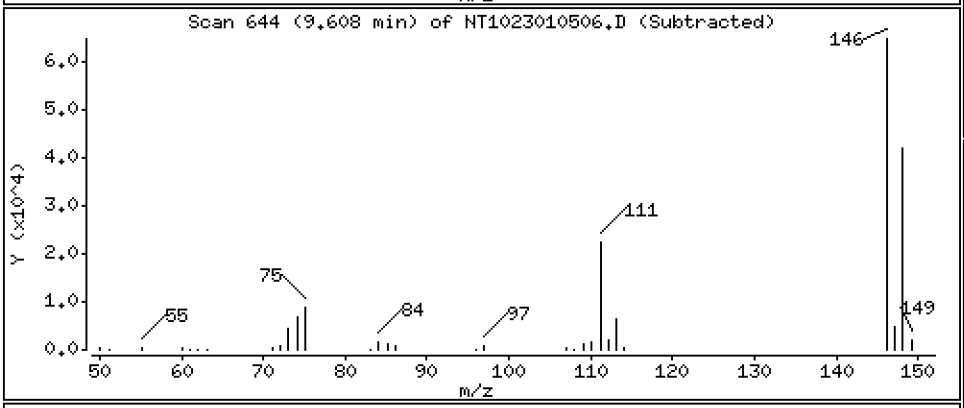
Column phase: ZB-5msi

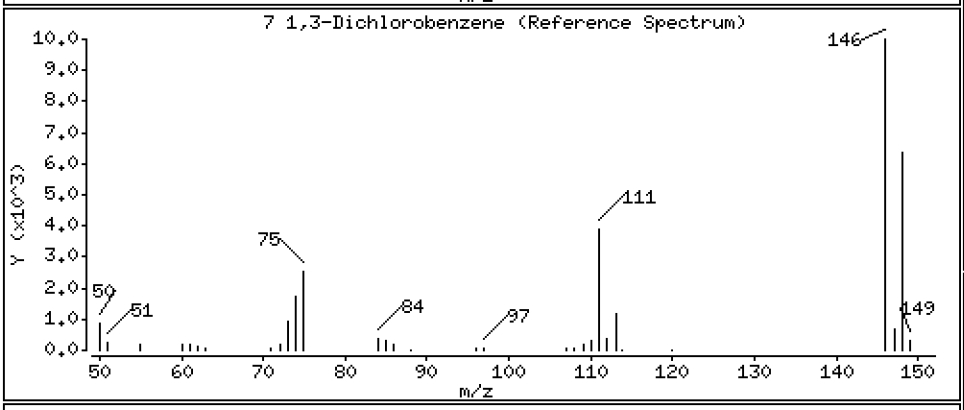
Column diameter: 0.25

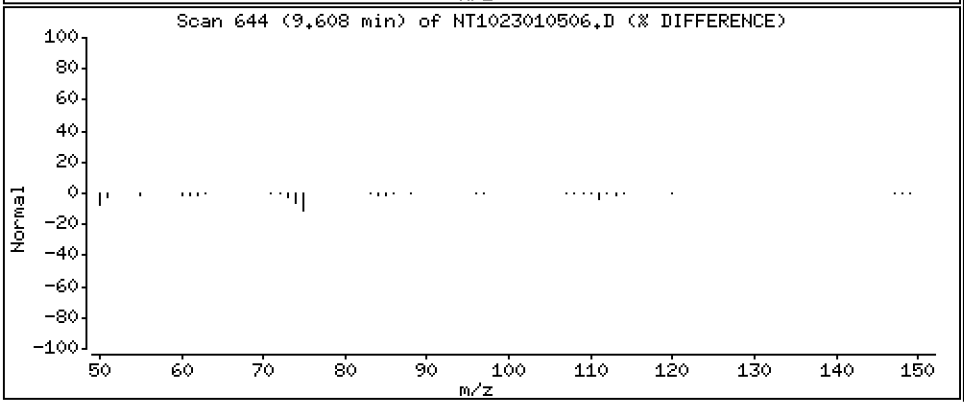
7 1,3-Dichlorobenzene

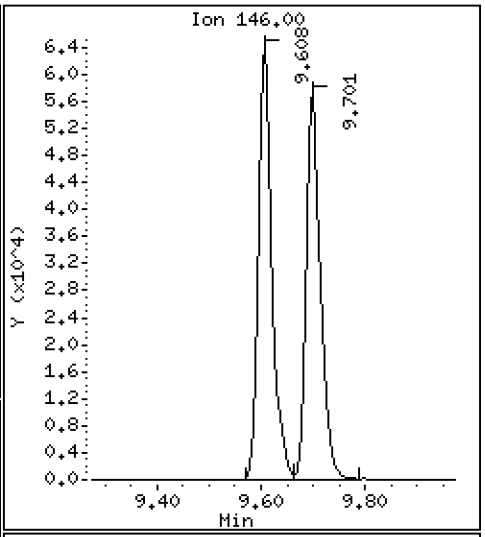
Concentration: 4.600 ug/mL

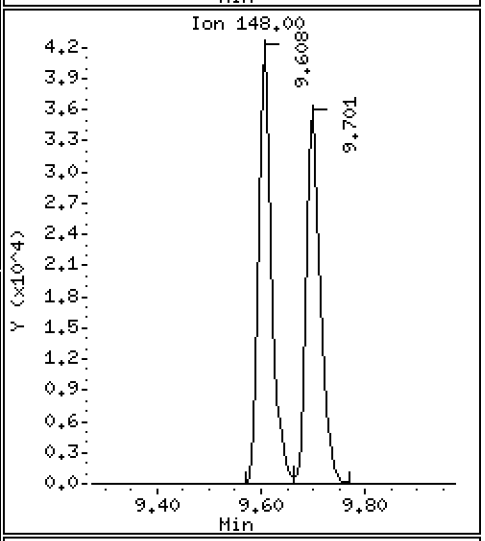


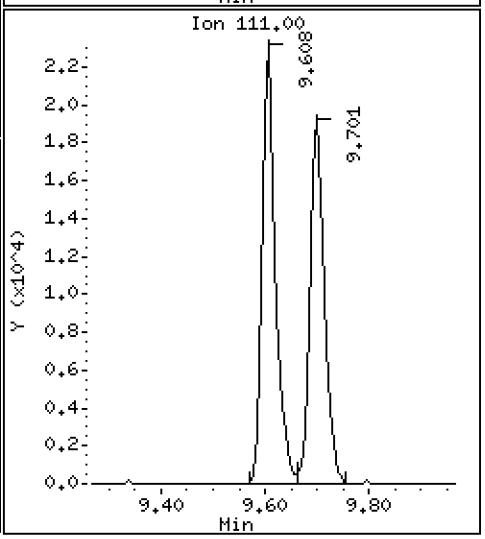












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

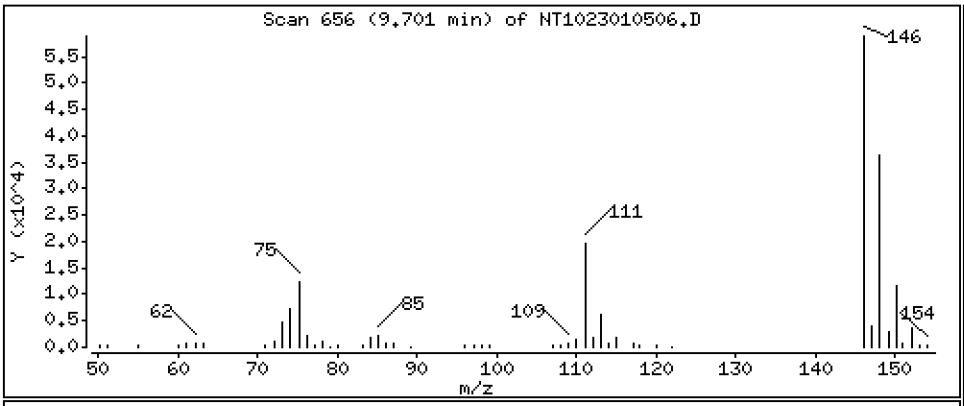
Operator: VTS

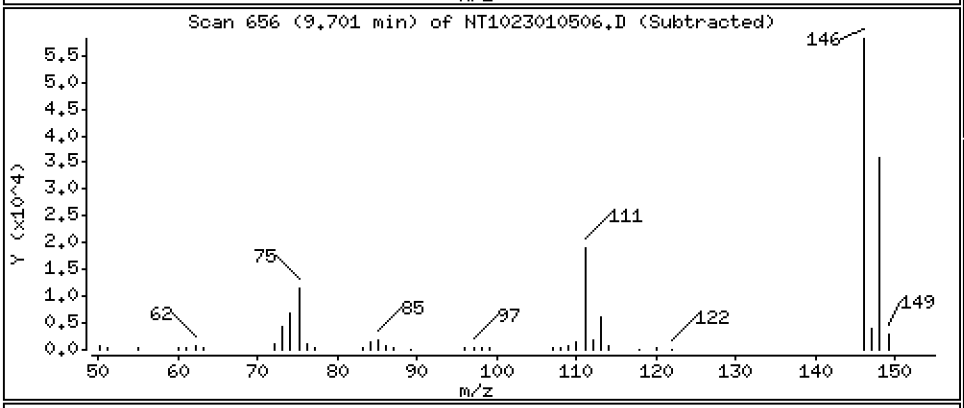
Column phase: ZB-5msi

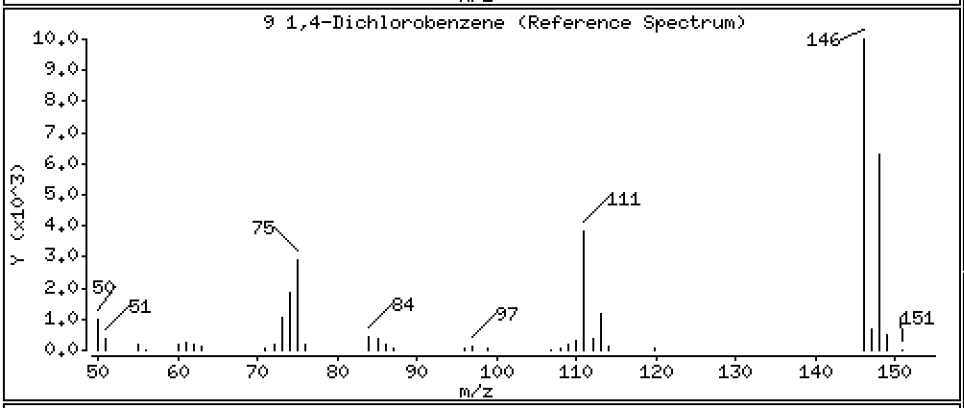
Column diameter: 0.25

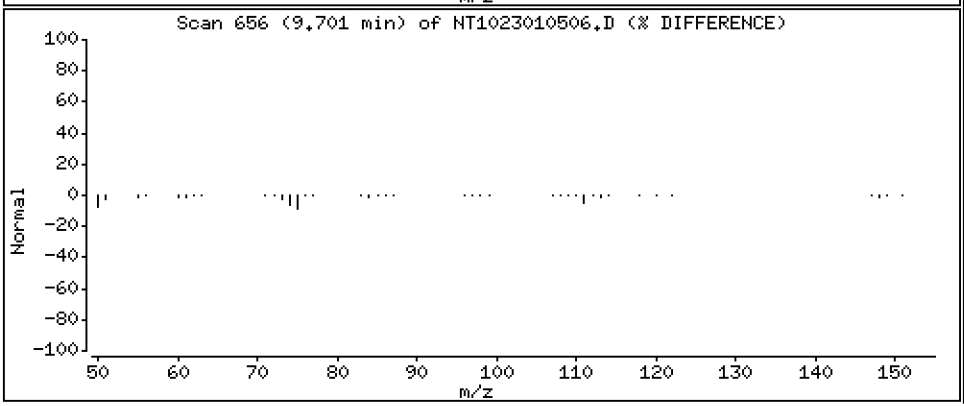
9 1,4-Dichlorobenzene

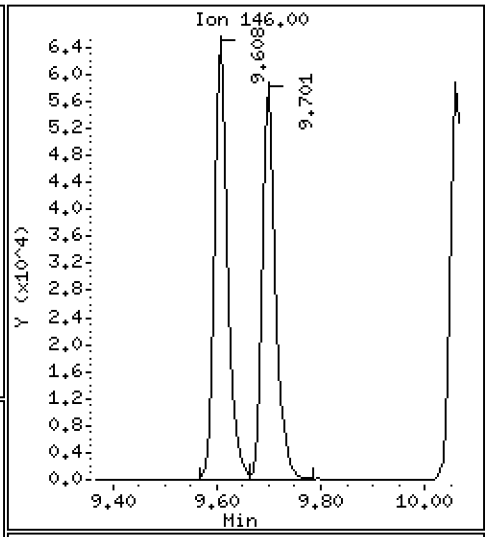
Concentration: 4.805 ug/mL

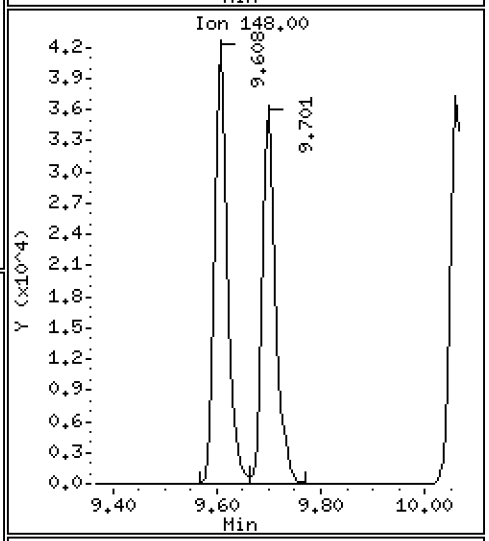


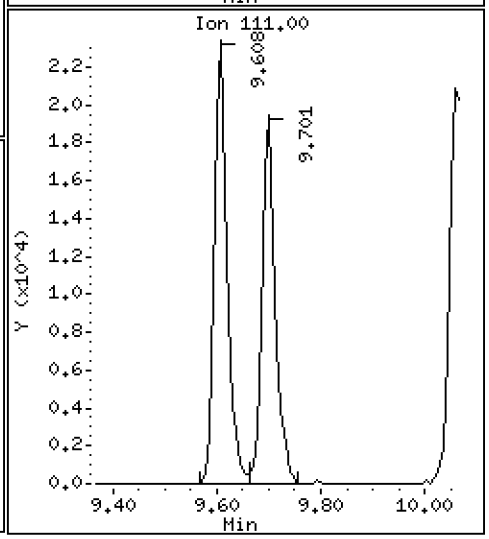












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

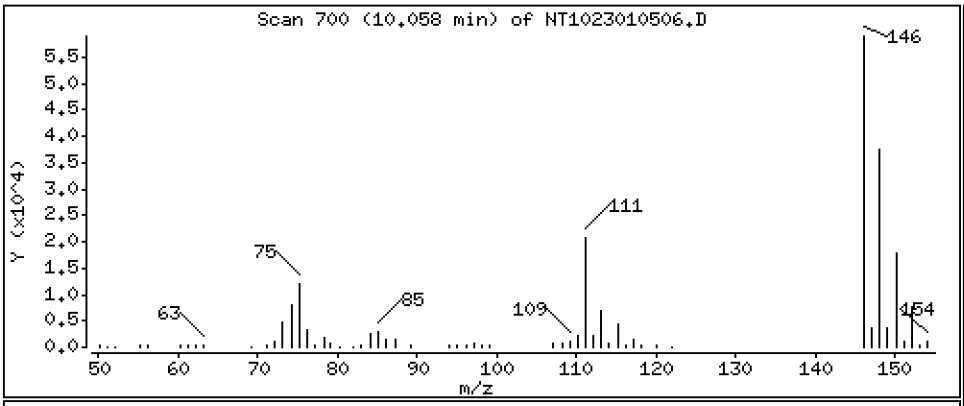
Operator: VTS

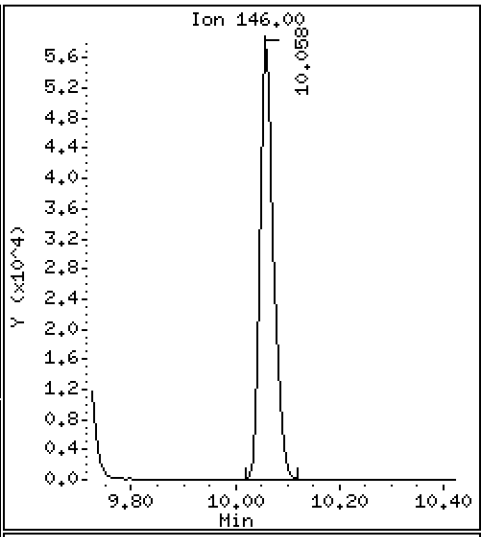
Column phase: ZB-5msi

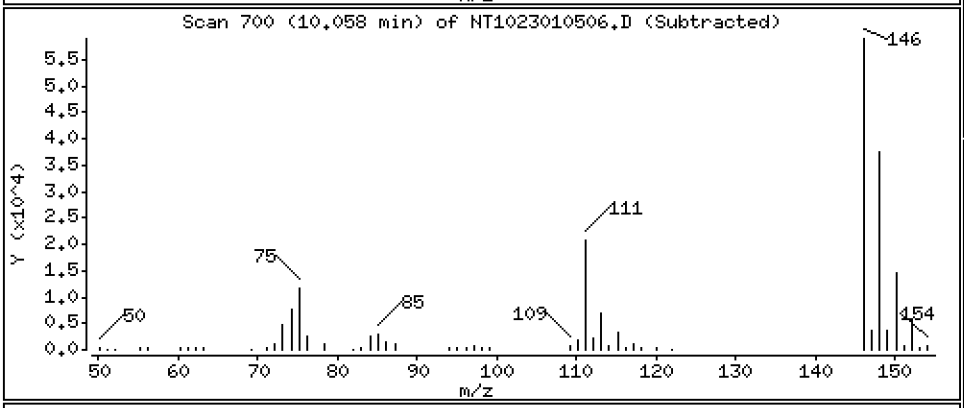
Column diameter: 0.25

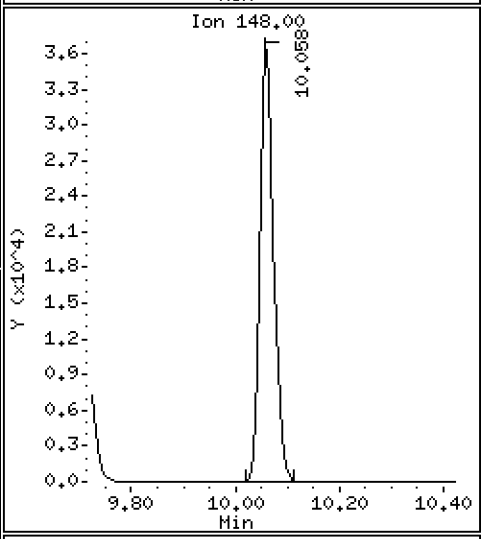
12 1,2-Dichlorobenzene

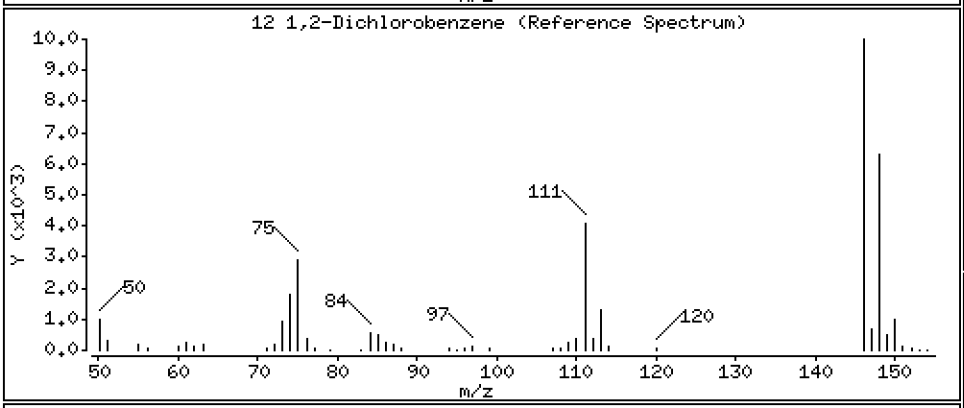
Concentration: 4.688 ug/mL

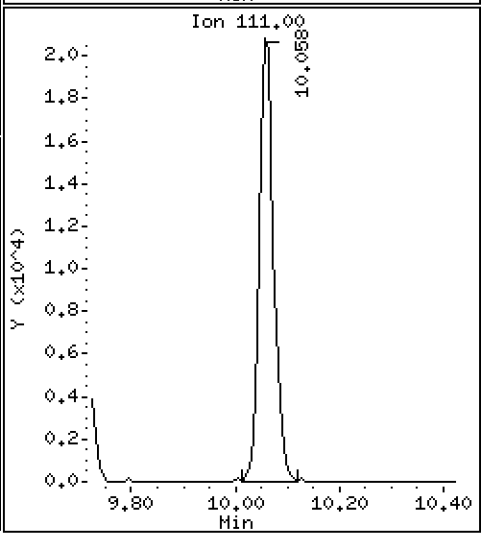


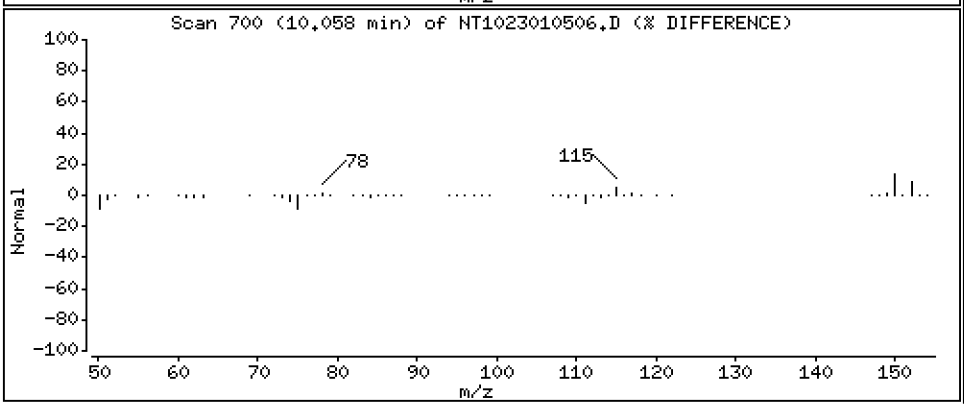












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

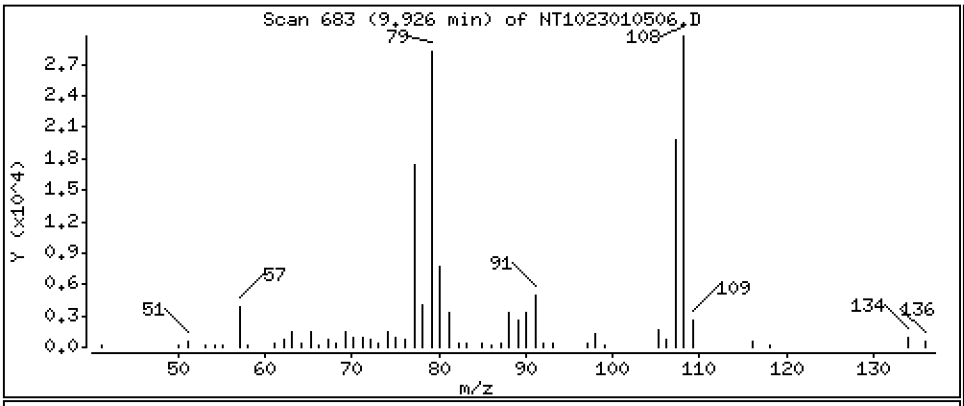
Operator: VTS

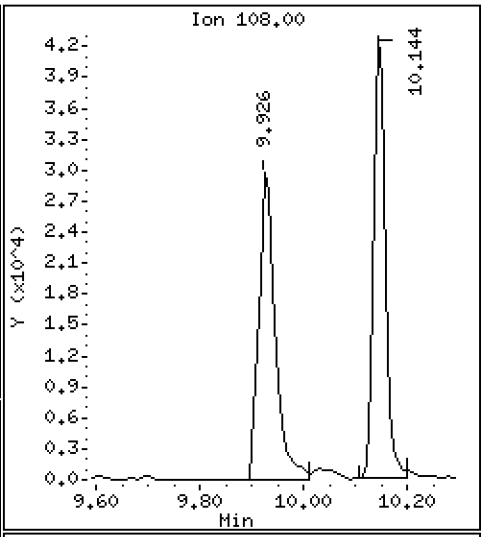
Column phase: ZB-5msi

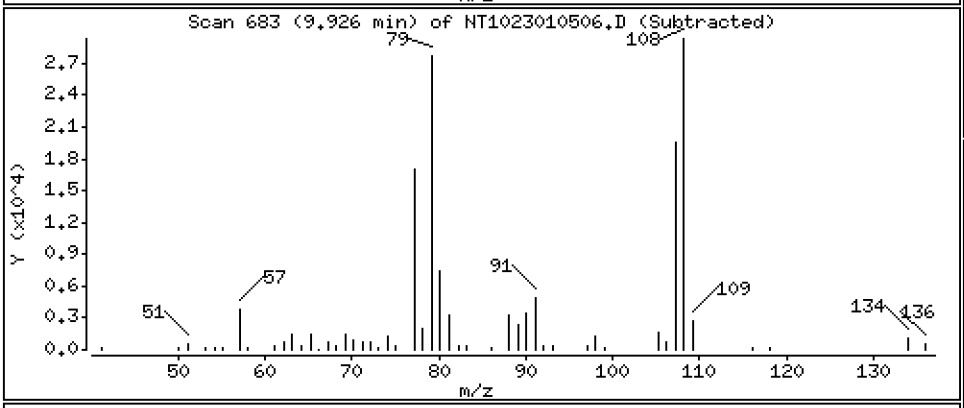
Column diameter: 0.25

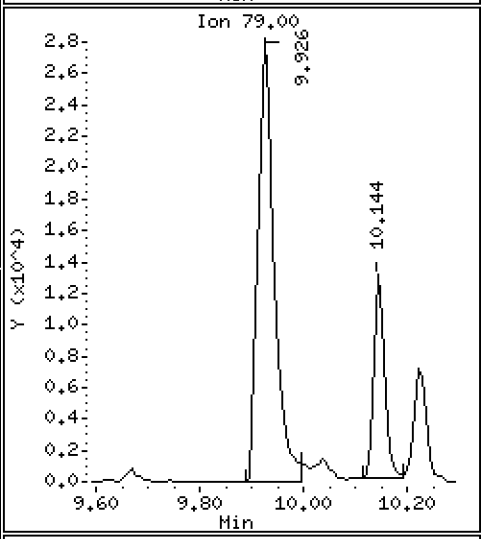
11 Benzyl alcohol

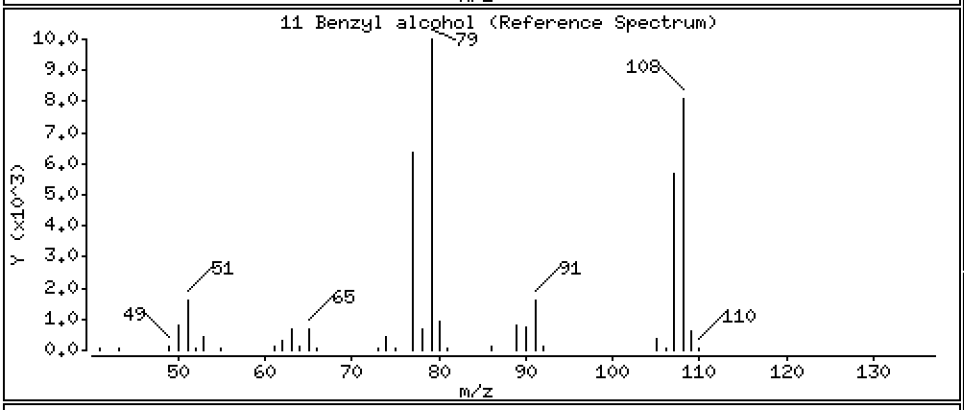
Concentration: 5.326 ug/mL

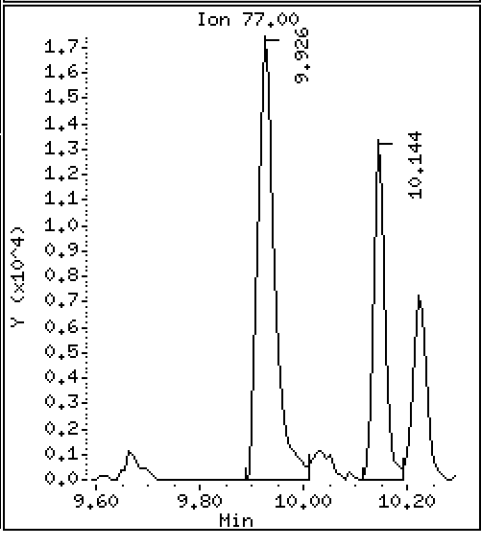


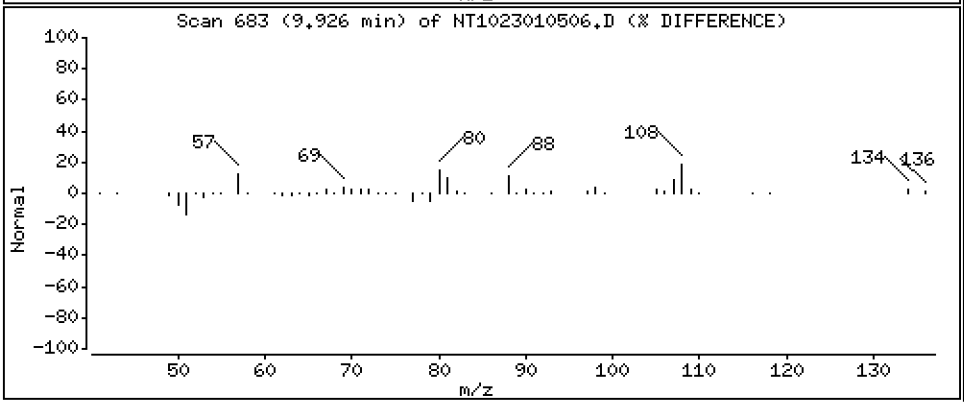












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

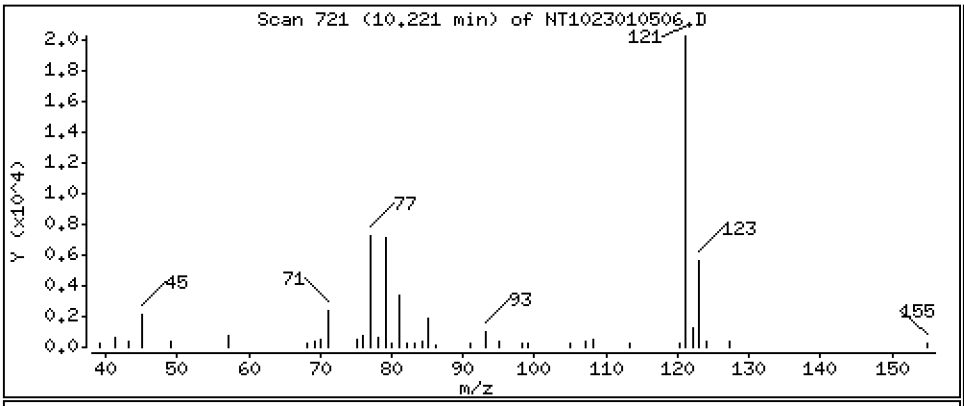
Operator: VTS

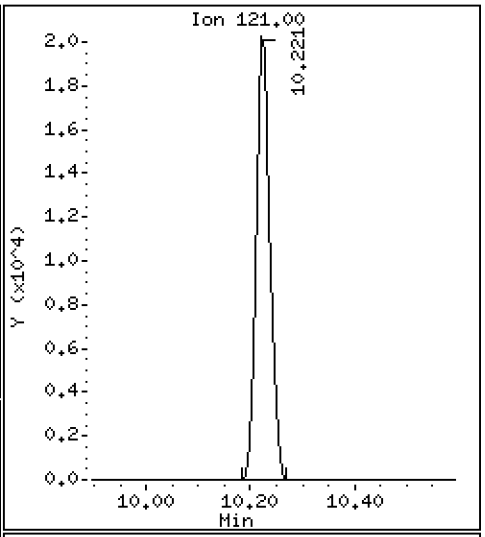
Column phase: ZB-5msi

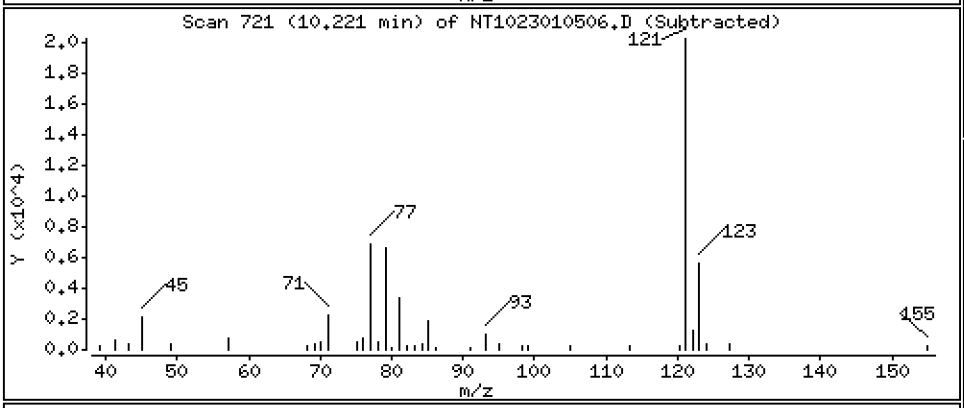
Column diameter: 0.25

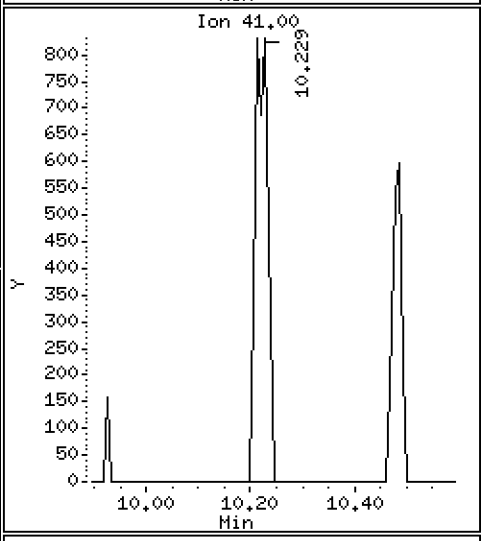
14 2,2'-oxybis(1-Chloropropane)

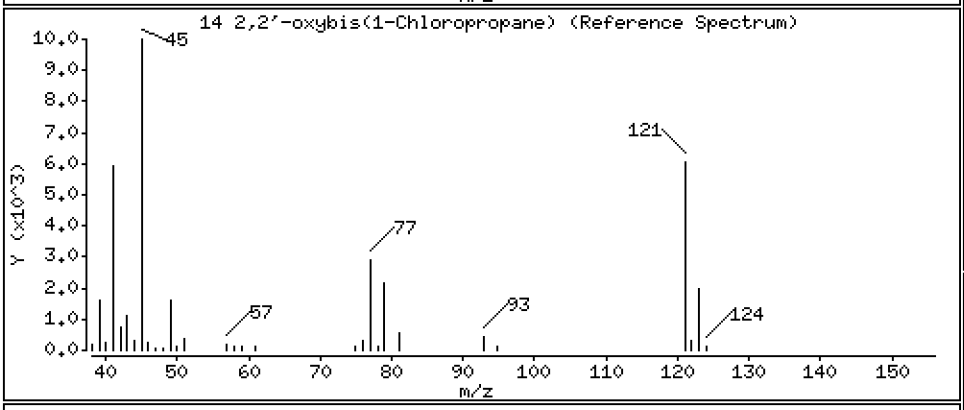
Concentration: 5.601 ug/mL

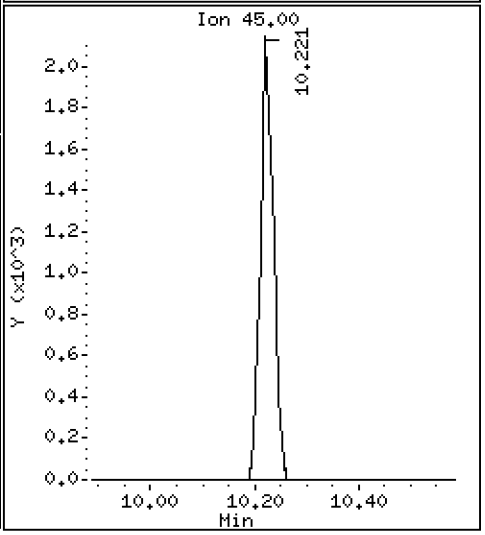


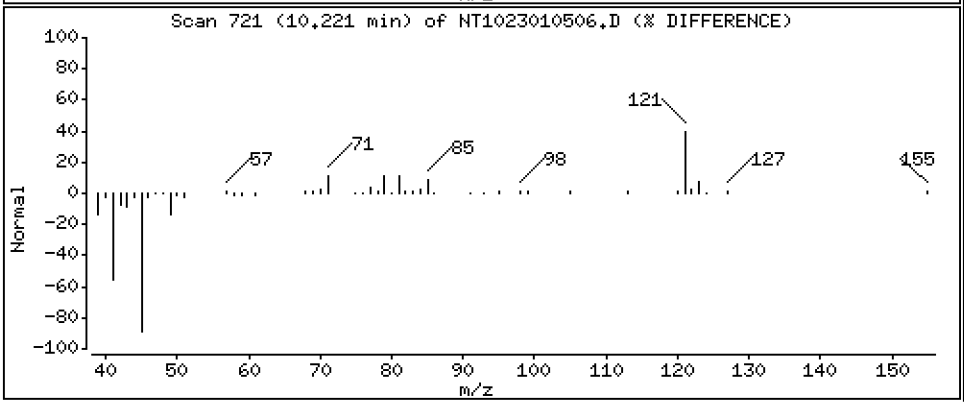












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

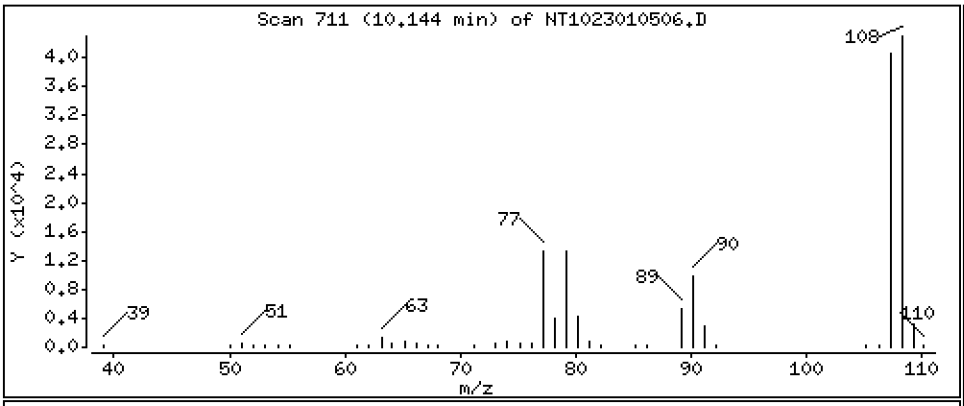
Operator: VTS

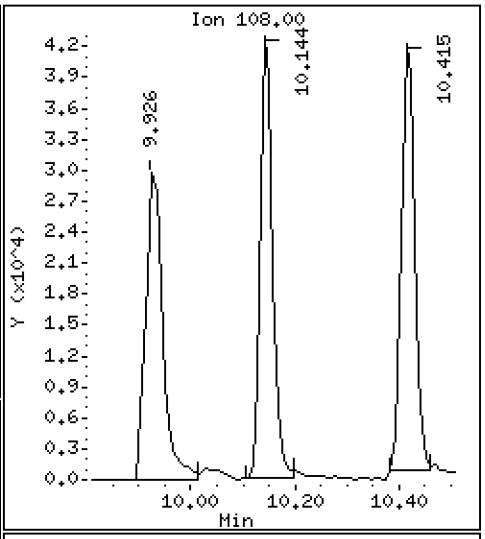
Column phase: ZB-5msi

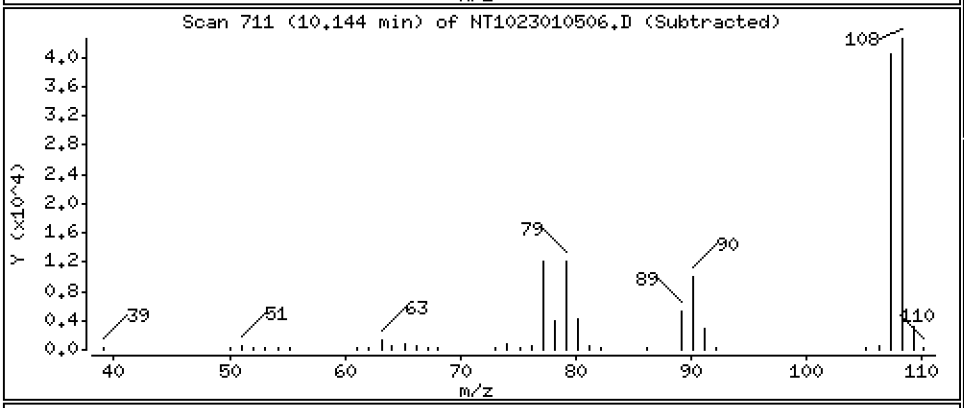
Column diameter: 0.25

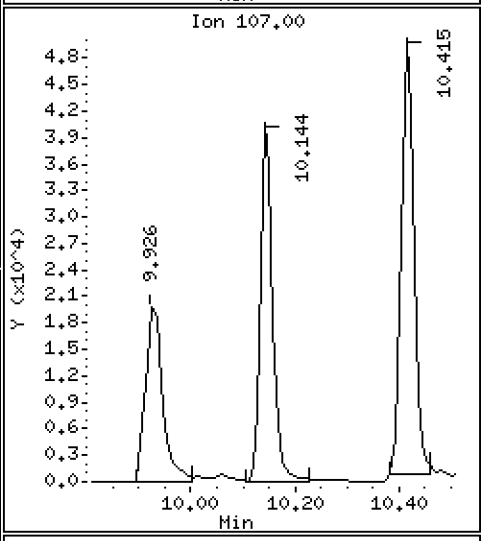
13 2-Methylphenol

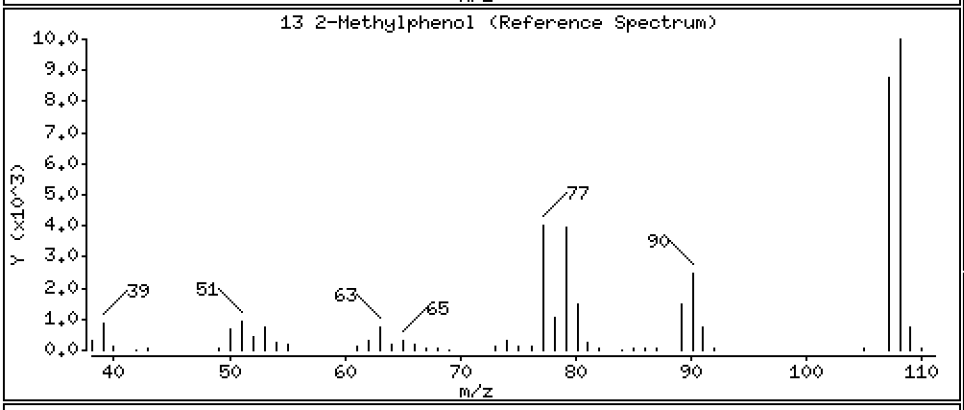
Concentration: 4.089 ug/mL

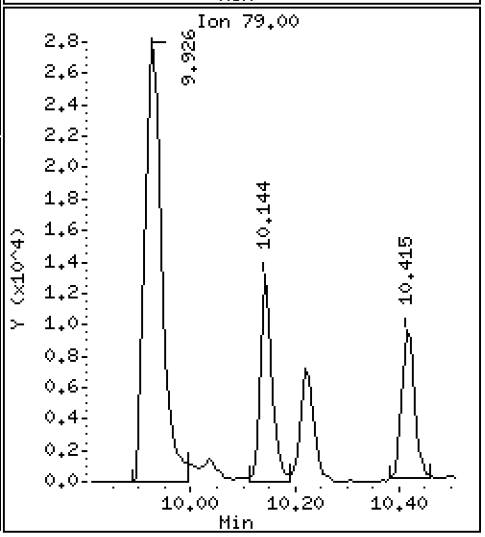


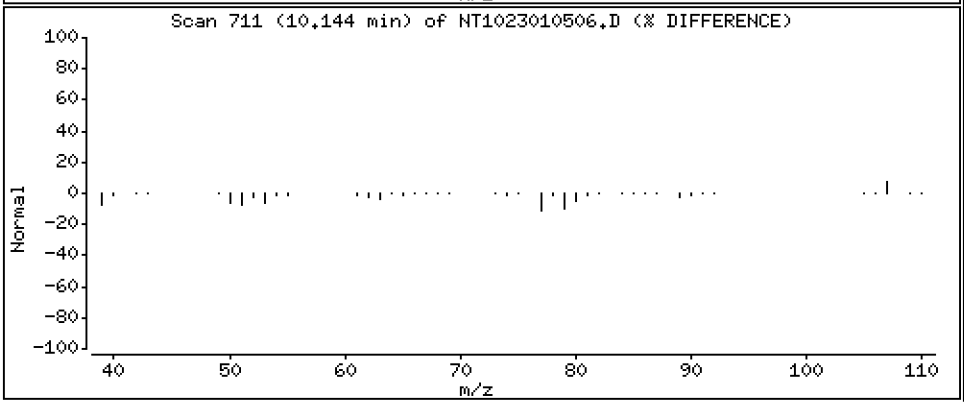












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

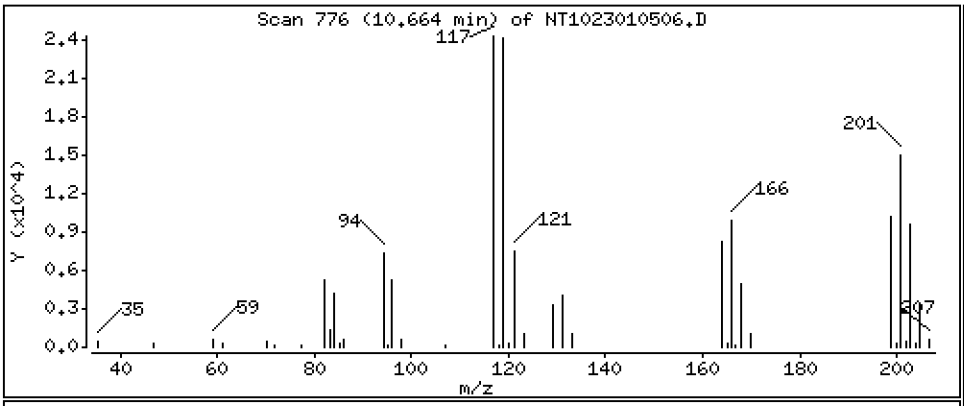
Operator: VTS

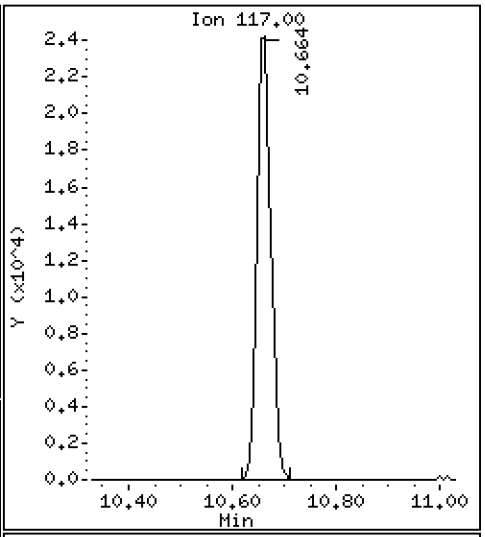
Column phase: ZB-5msi

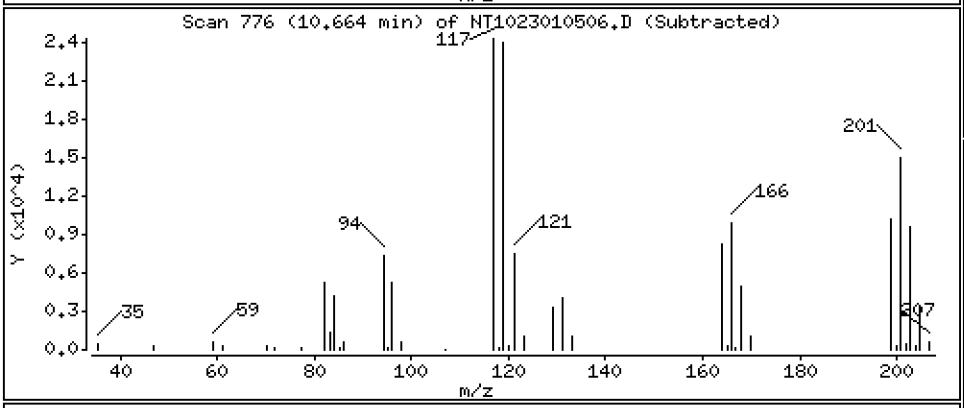
Column diameter: 0.25

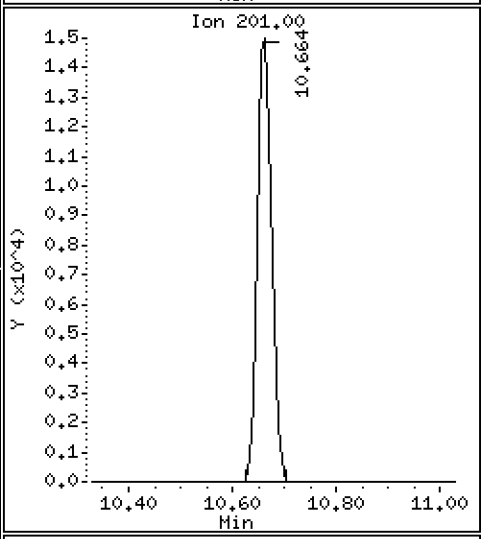
17 Hexachloroethane

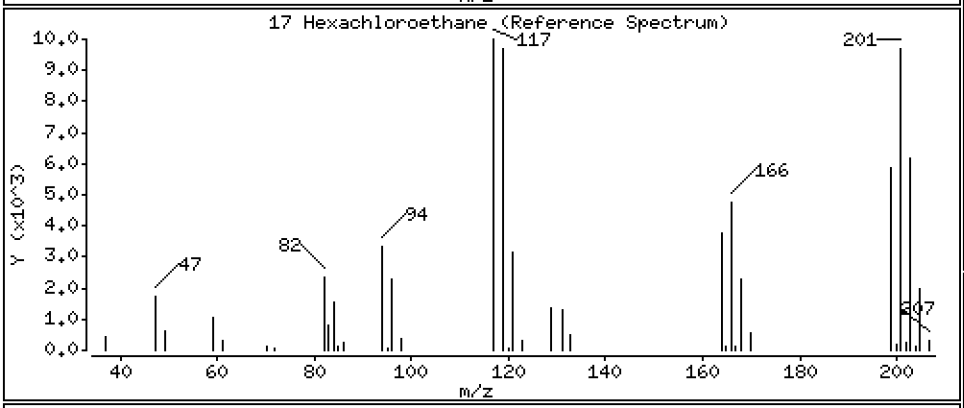
Concentration: 4.603 ug/mL

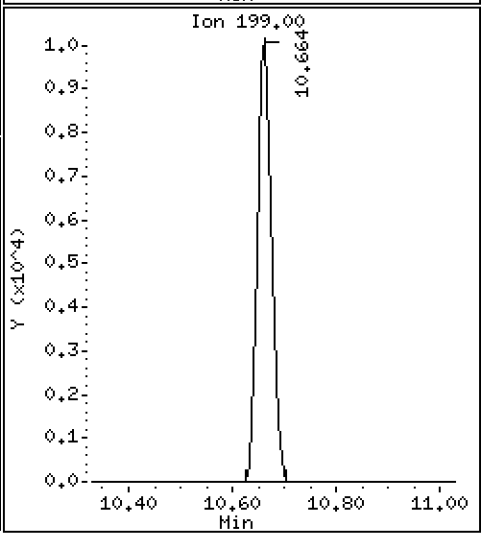


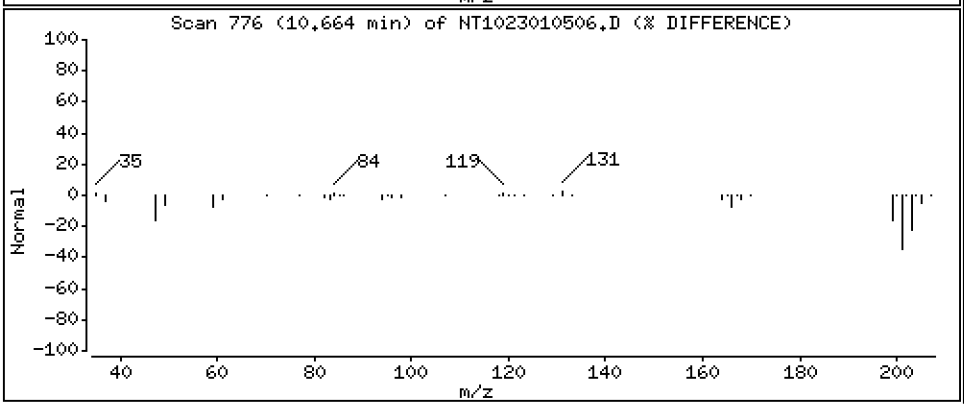












Date : 05-JAN-2023 16:35

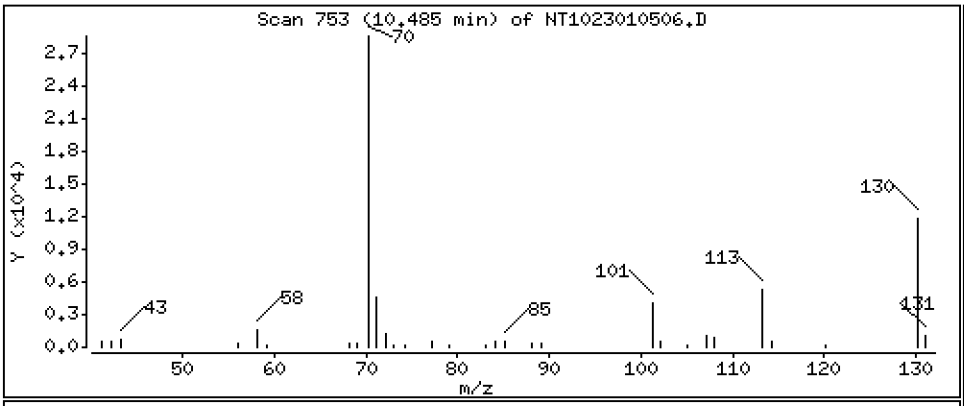
Client ID: Instrument: nt10.i

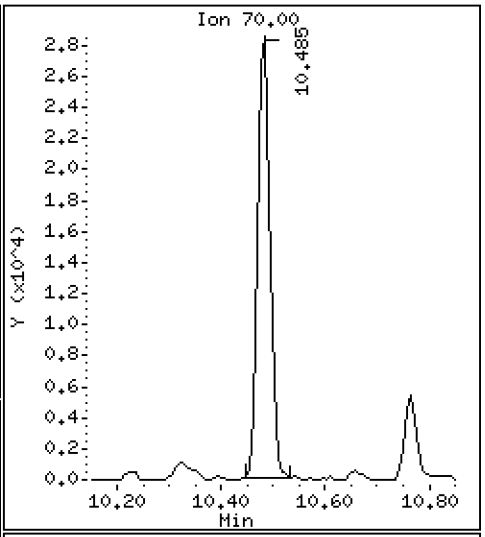
Sample Info: BKL0489-BSD1

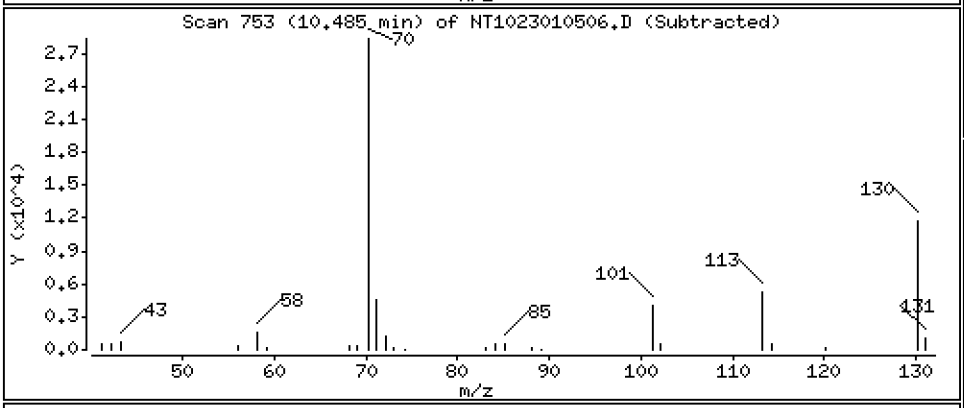
Operator: VTS

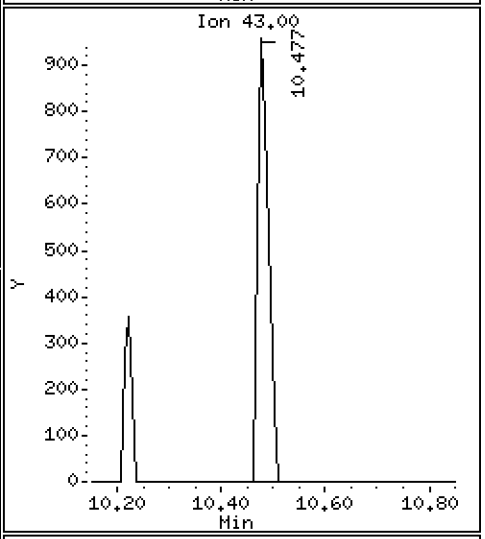
Column phase: ZB-5msi Column diameter: 0.25

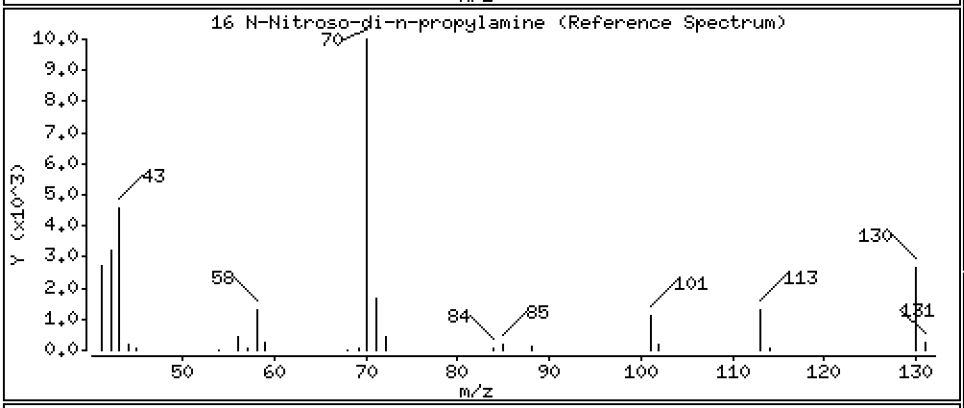
16 N-Nitroso-di-n-propylamine Concentration: 5.115 ug/mL

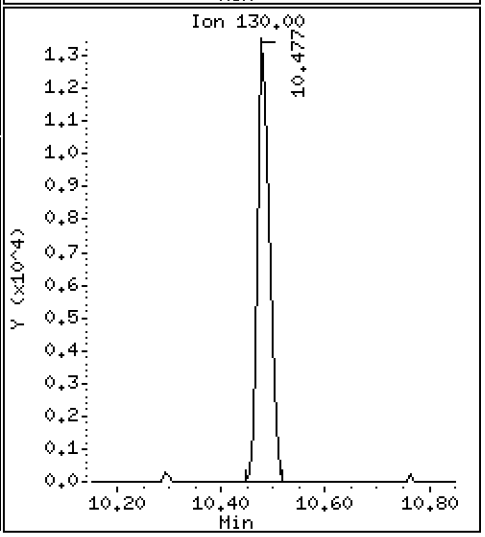


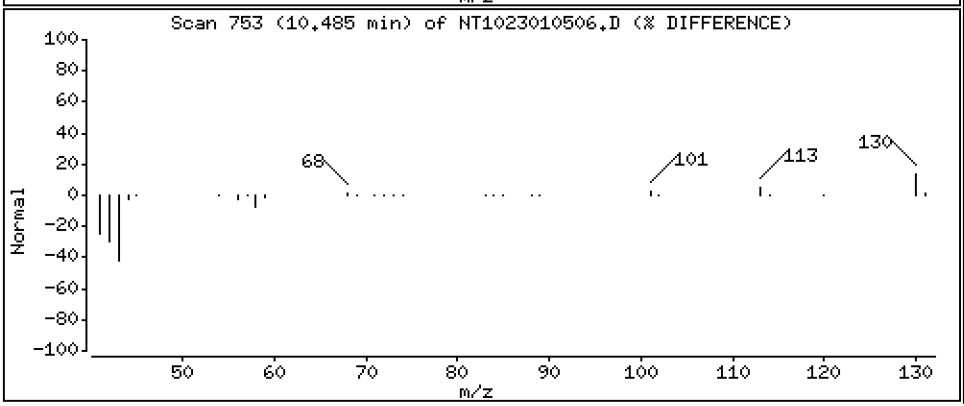












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

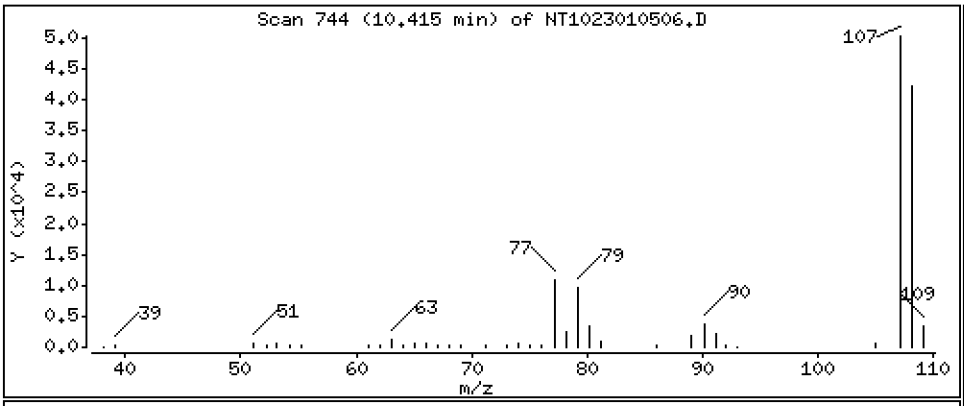
Operator: VTS

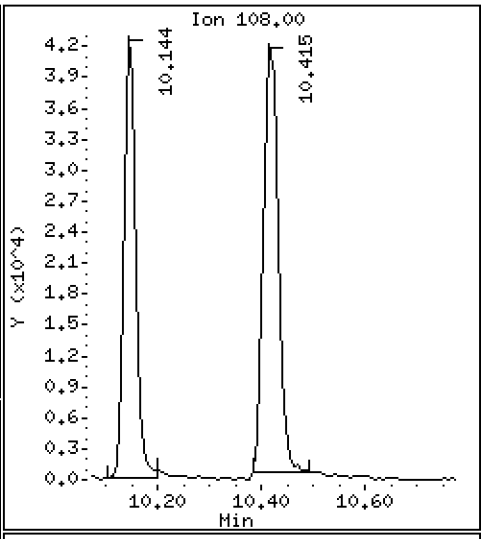
Column phase: ZB-5msi

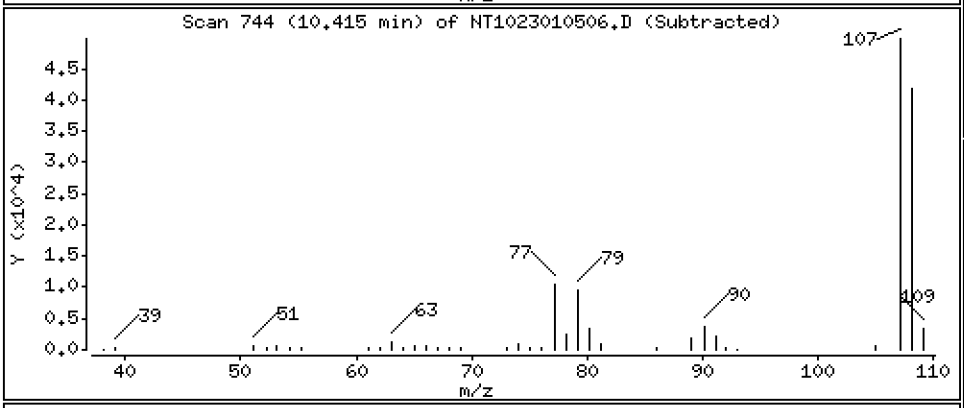
Column diameter: 0.25

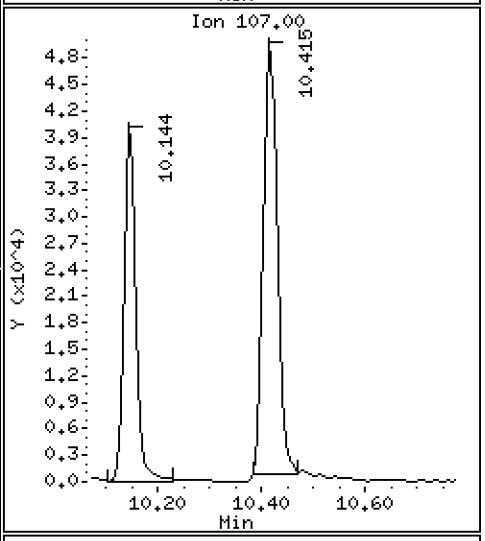
15 4-Methylphenol

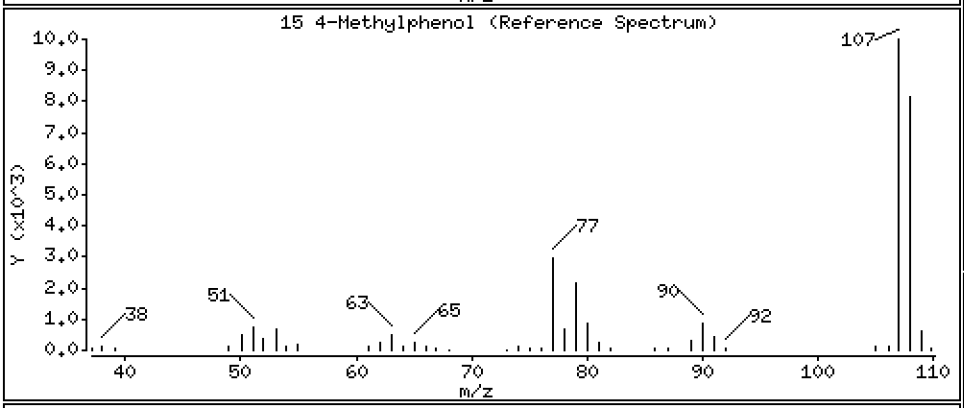
Concentration: 5.489 ug/mL

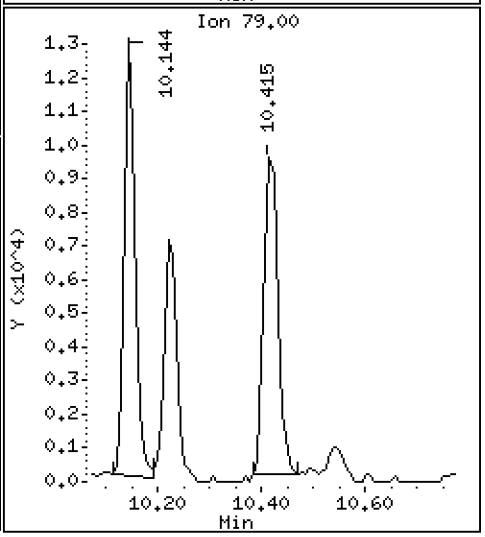


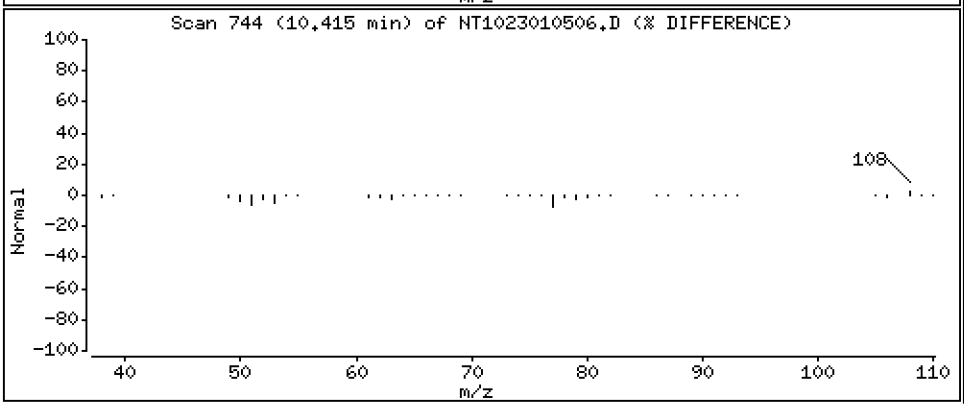












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

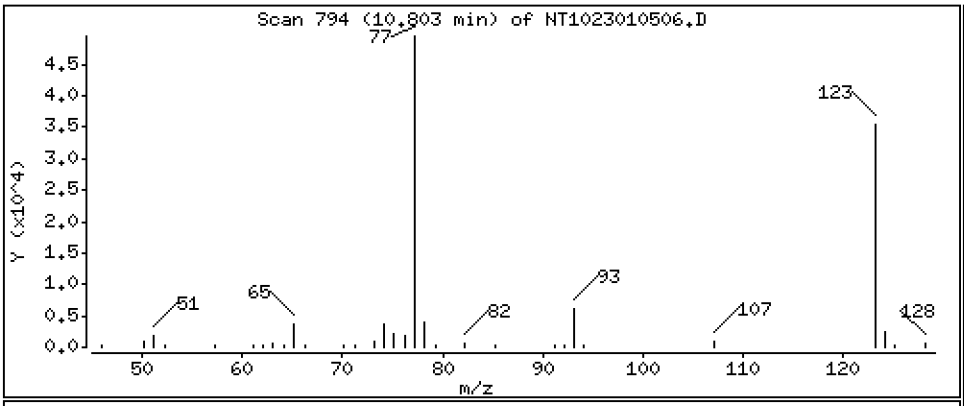
Operator: VTS

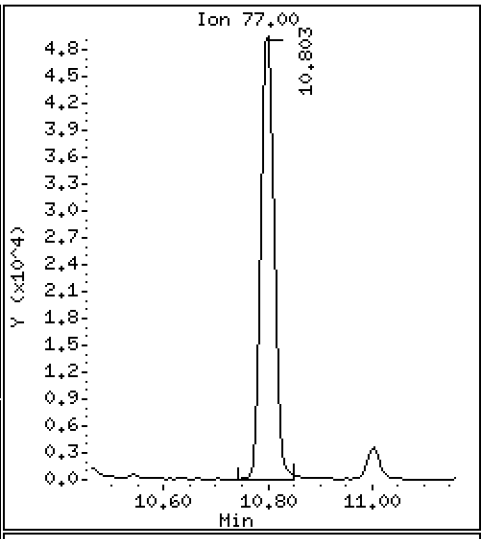
Column phase: ZB-5msi

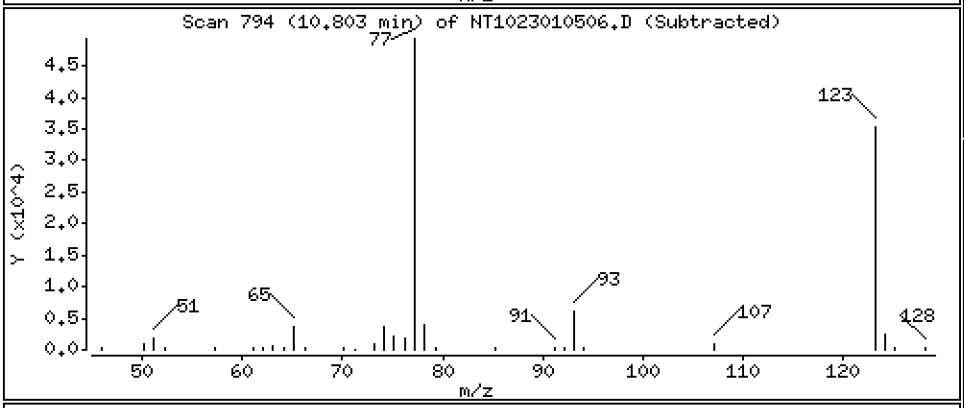
Column diameter: 0.25

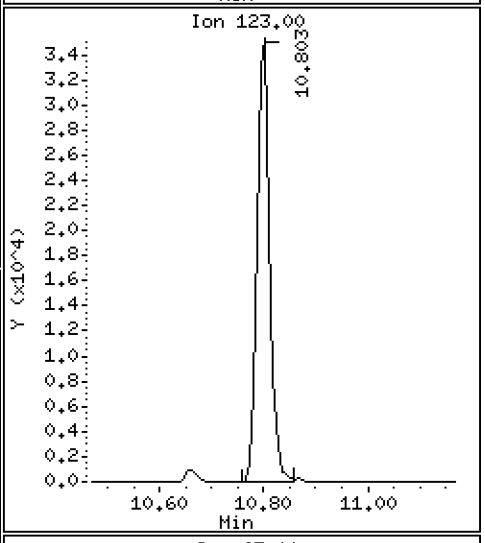
19 Nitrobenzene

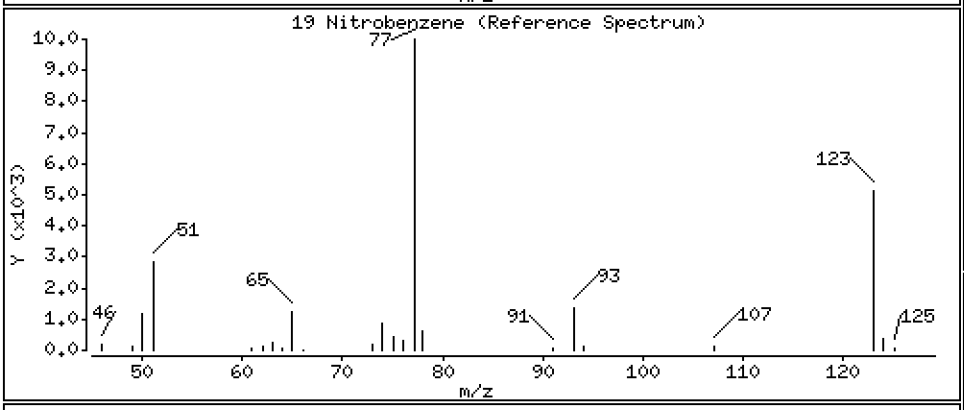
Concentration: 5.275 ug/mL

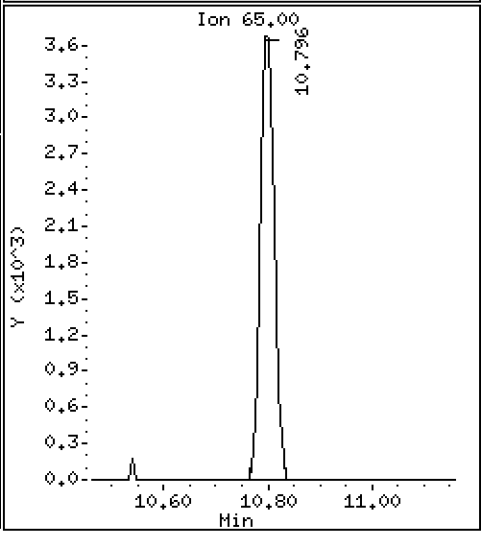


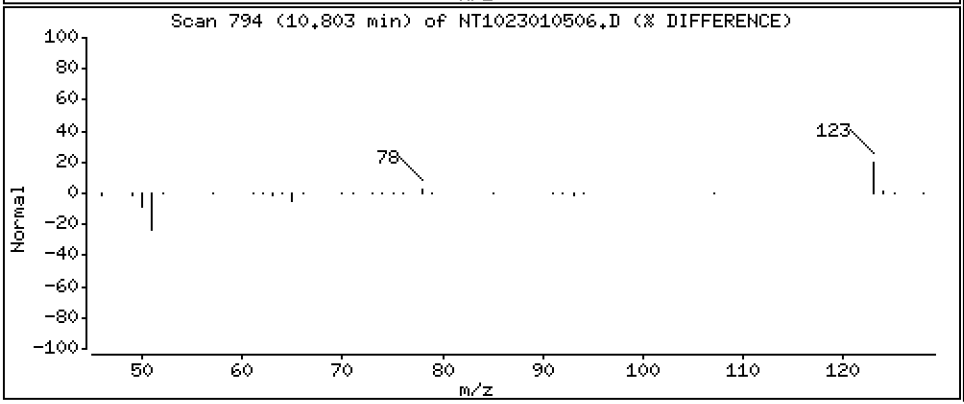












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

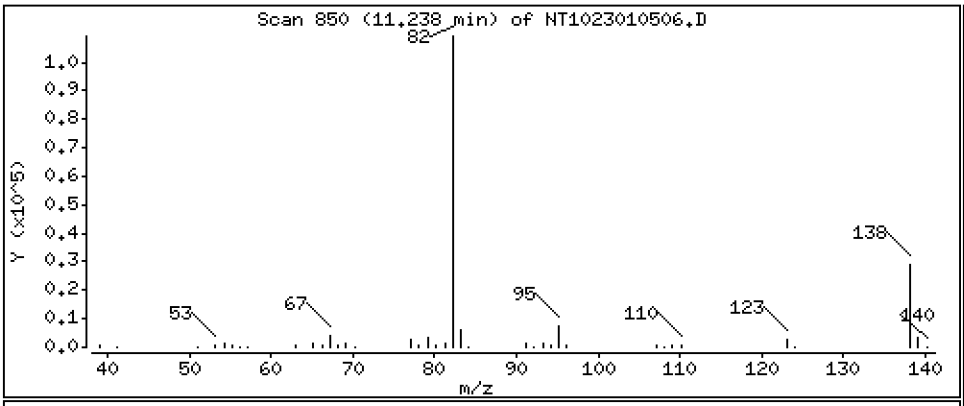
Operator: VTS

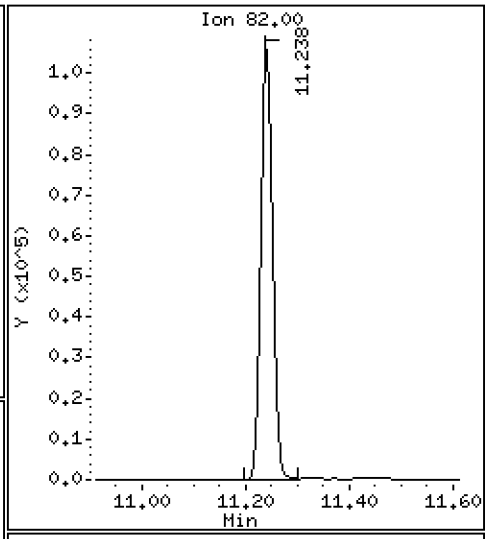
Column phase: ZB-5msi

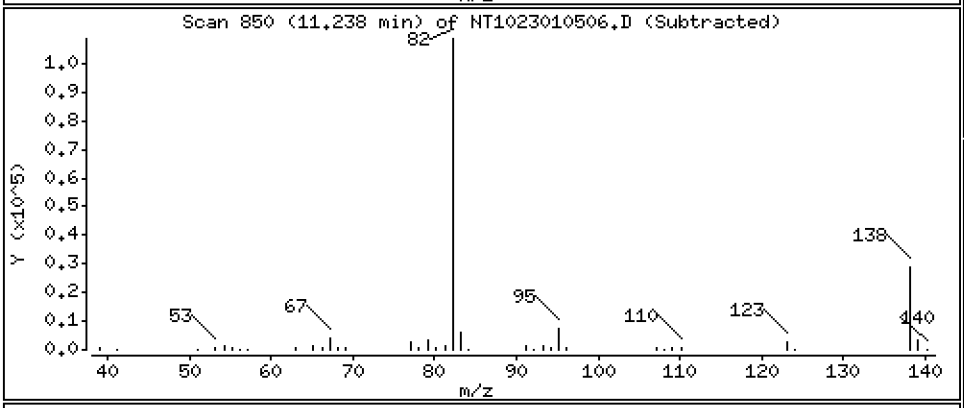
Column diameter: 0.25

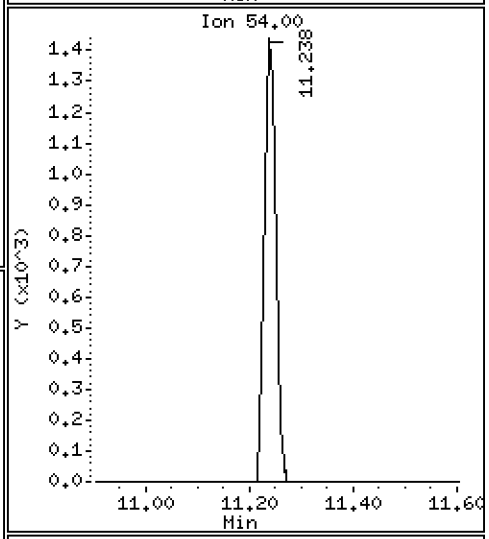
20 Isophorone

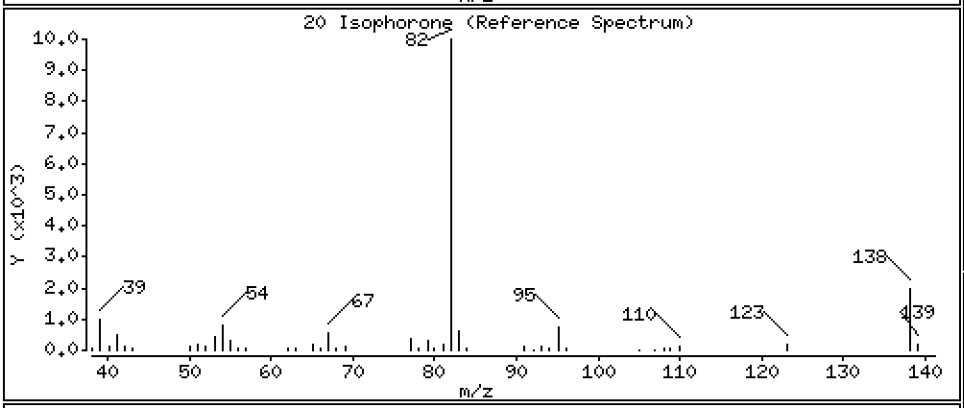
Concentration: 6.898 ug/mL

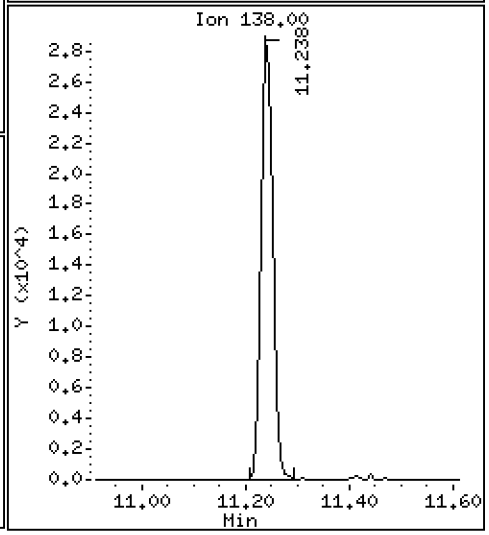


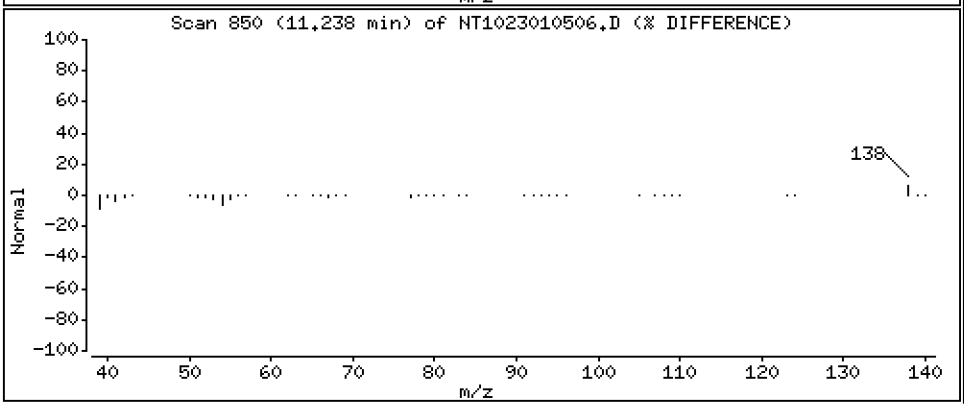












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

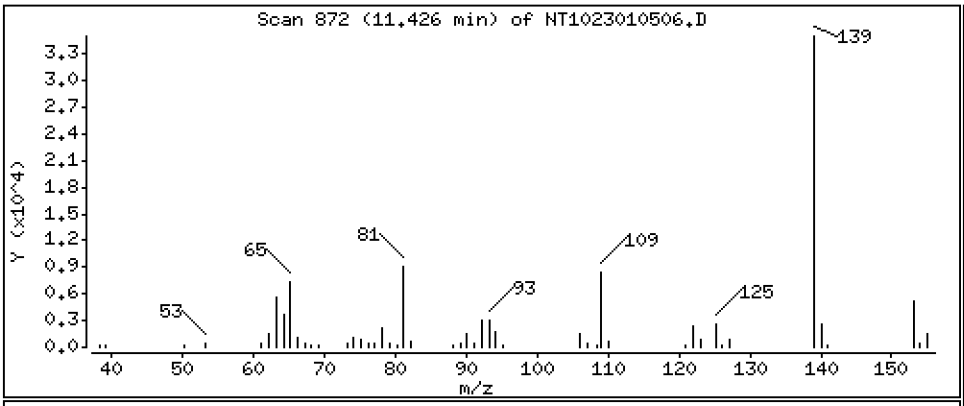
Operator: VTS

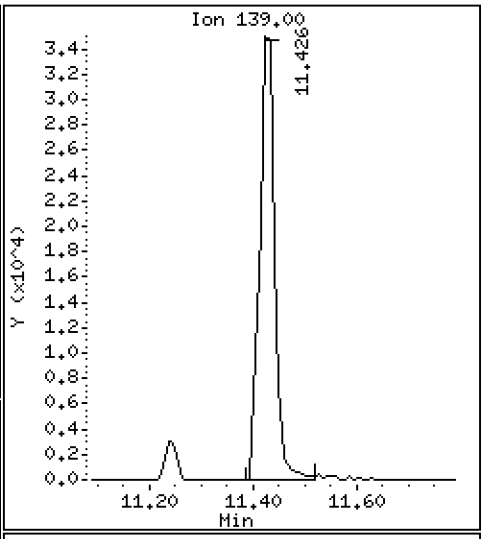
Column phase: ZB-5msi

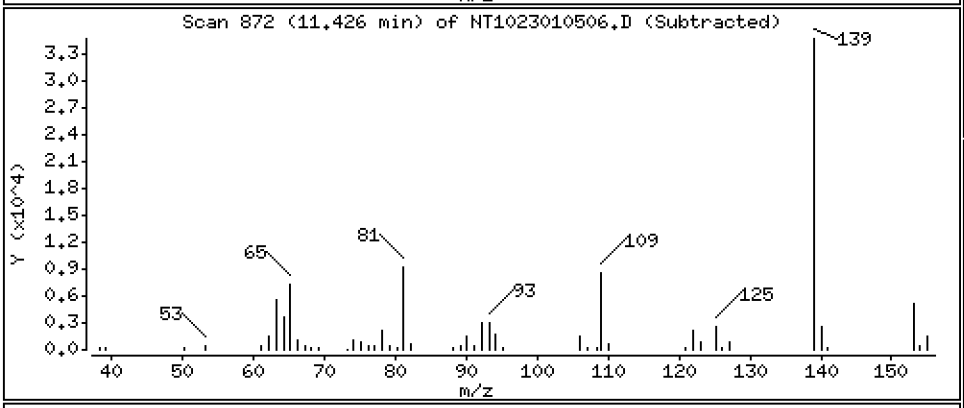
Column diameter: 0.25

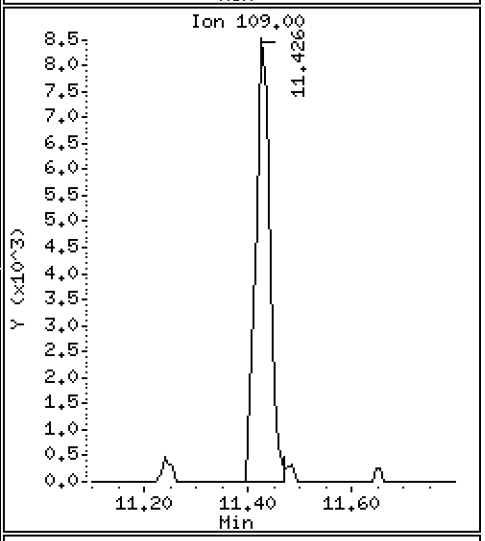
21 2-Nitrophenol

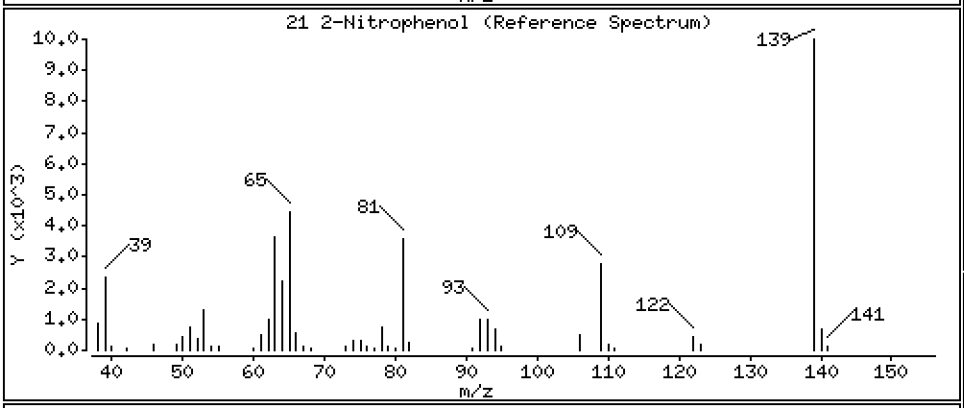
Concentration: 4.616 ug/mL

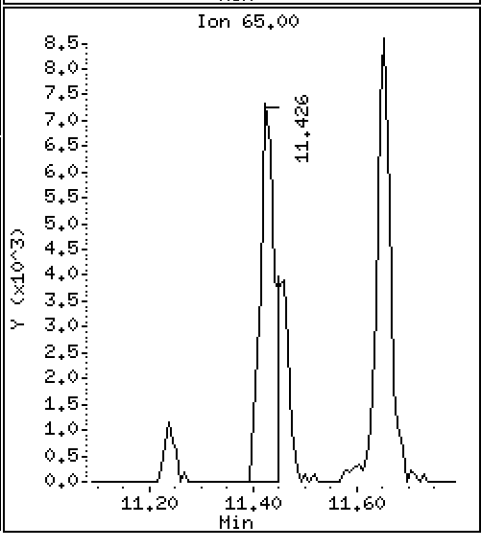


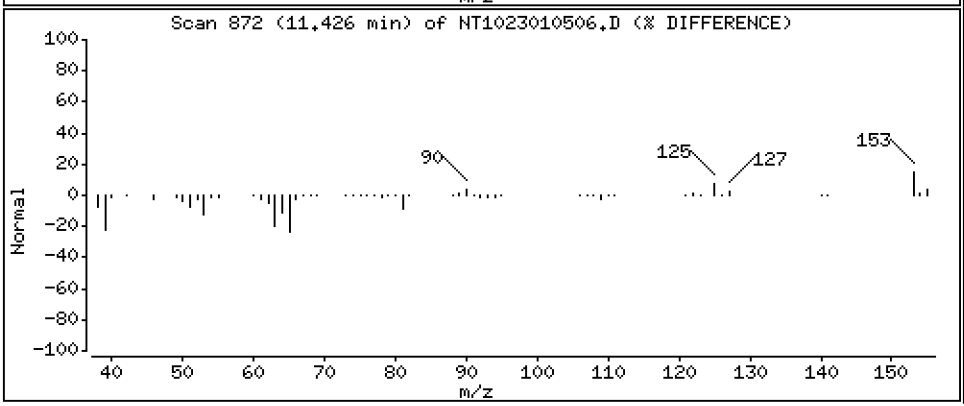












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

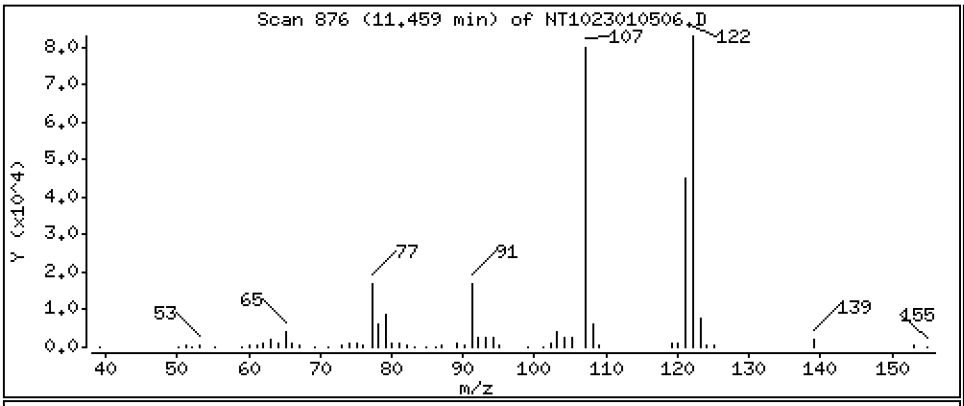
Operator: VTS

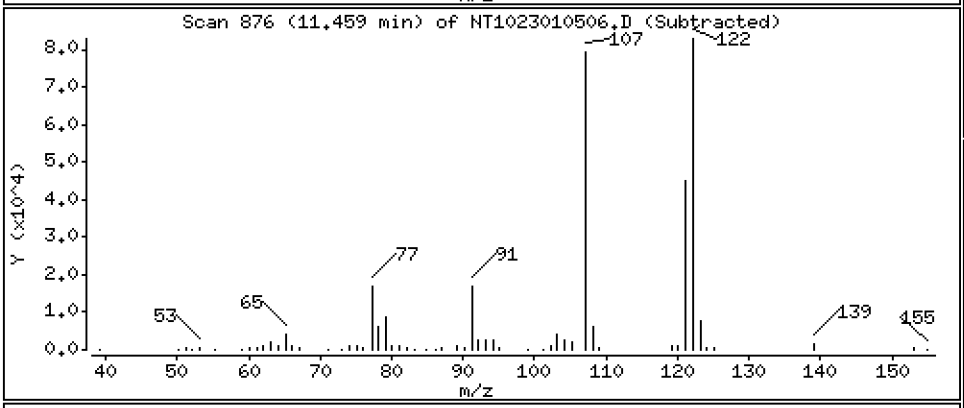
Column phase: ZB-5msi

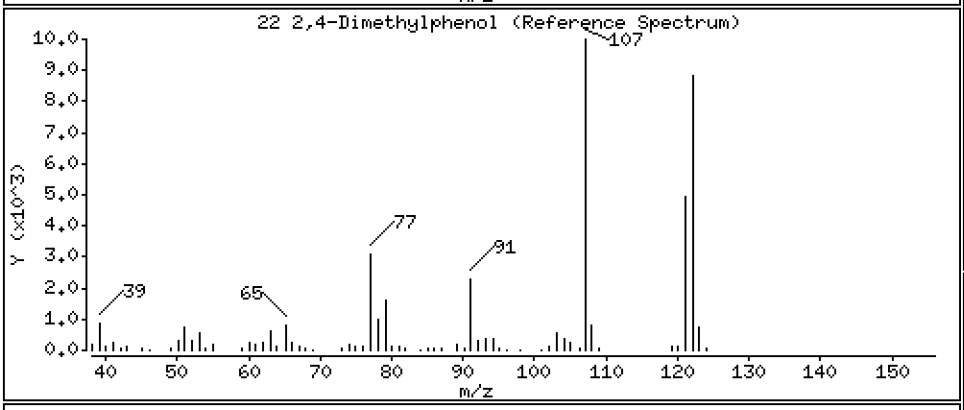
Column diameter: 0.25

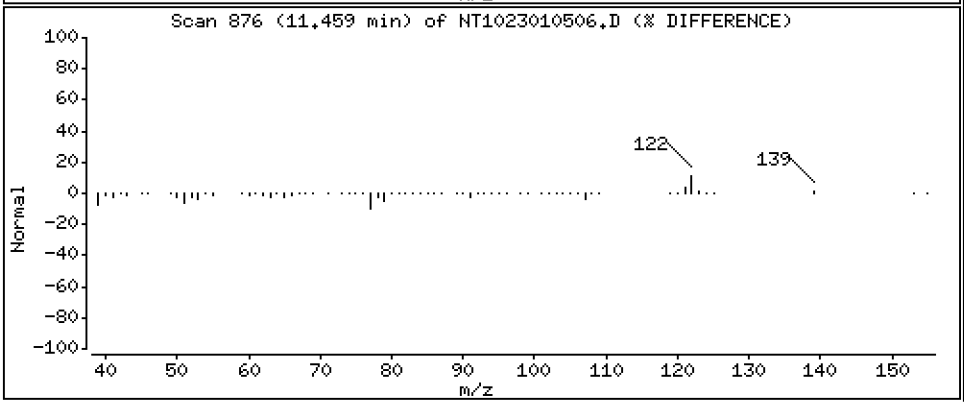
22 2,4-Dimethylphenol

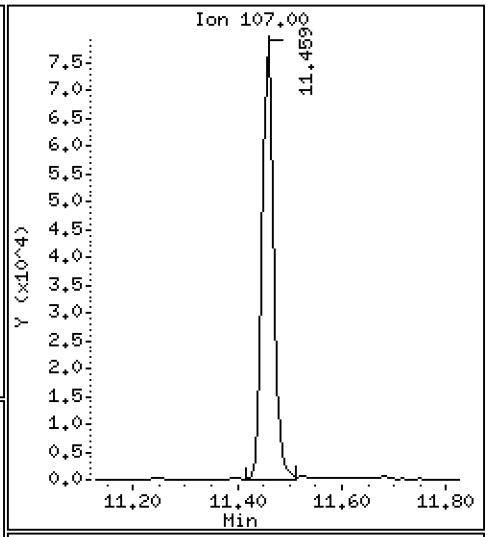
Concentration: 5.931 ug/mL

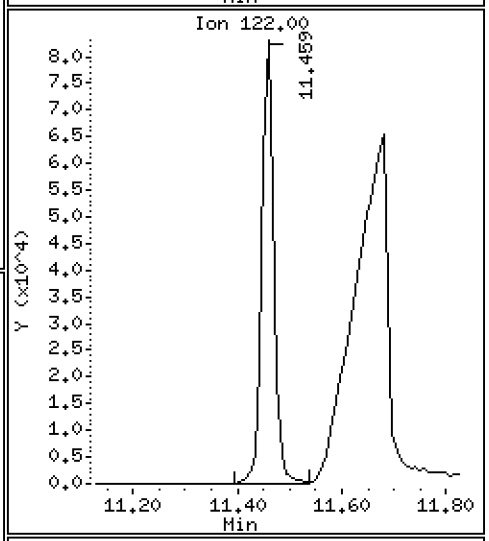


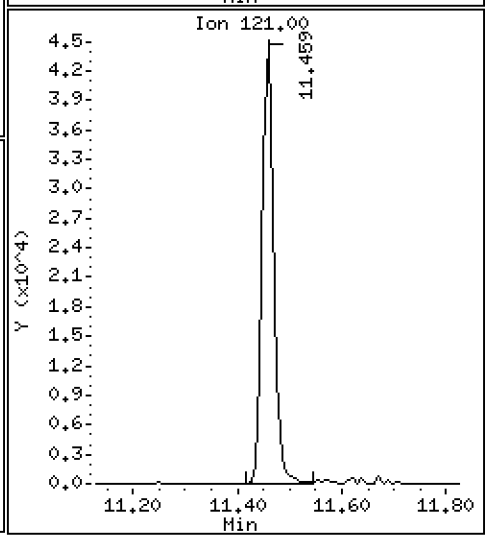












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

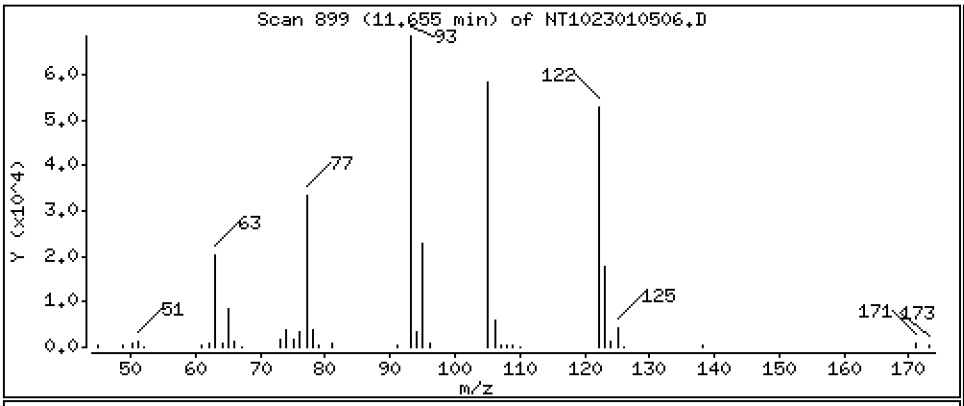
Operator: VTS

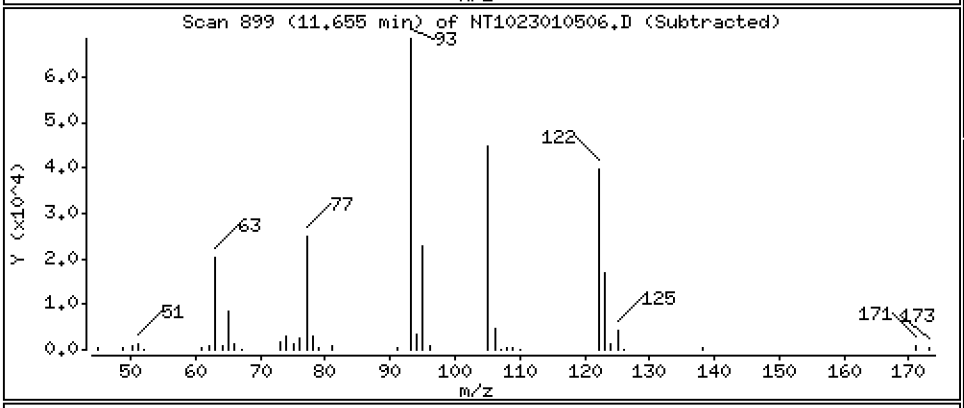
Column phase: ZB-5msi

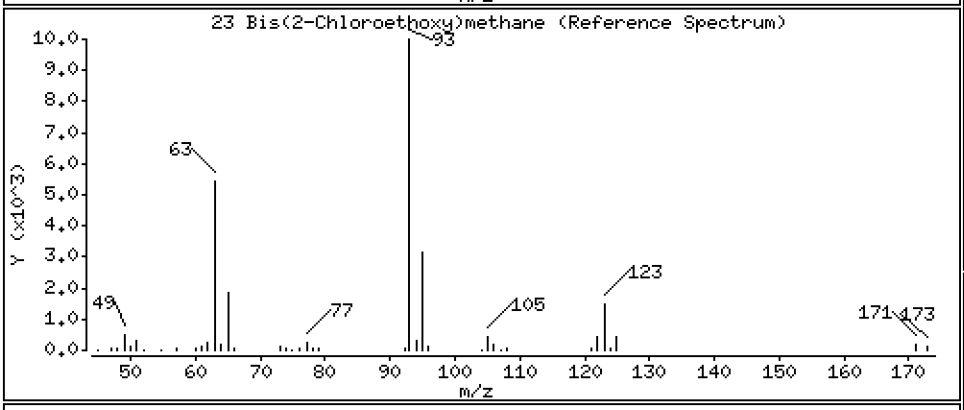
Column diameter: 0.25

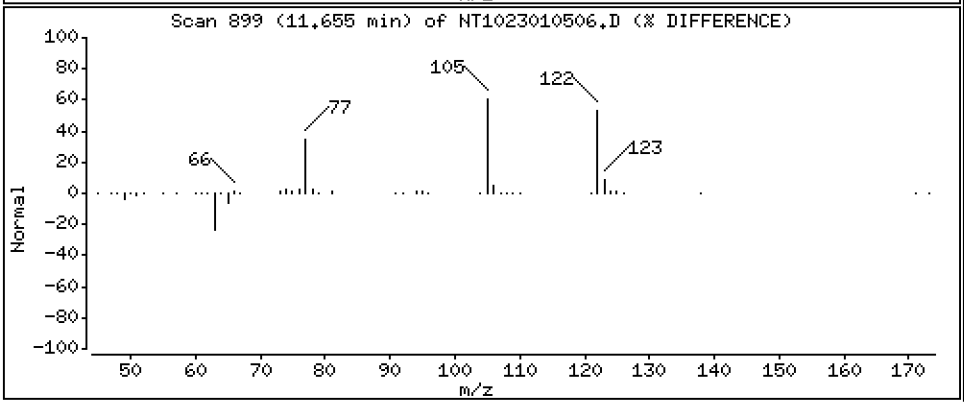
23 Bis(2-Chloroethoxy)methane

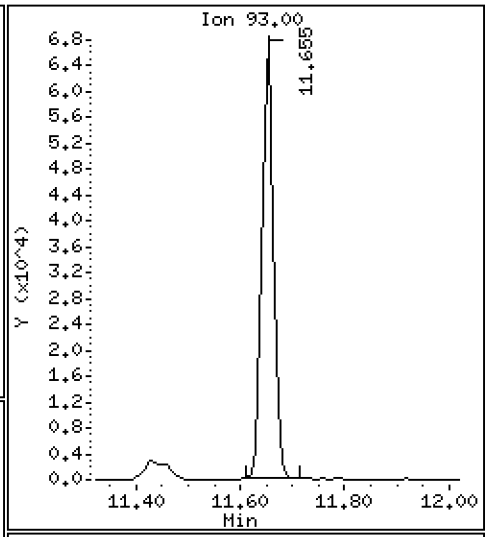
Concentration: 5.843 ug/mL

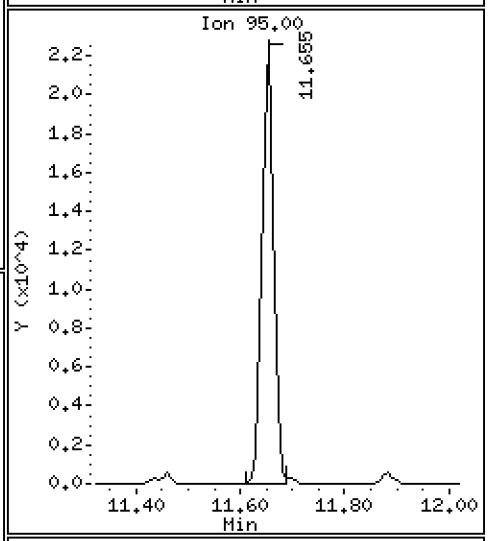


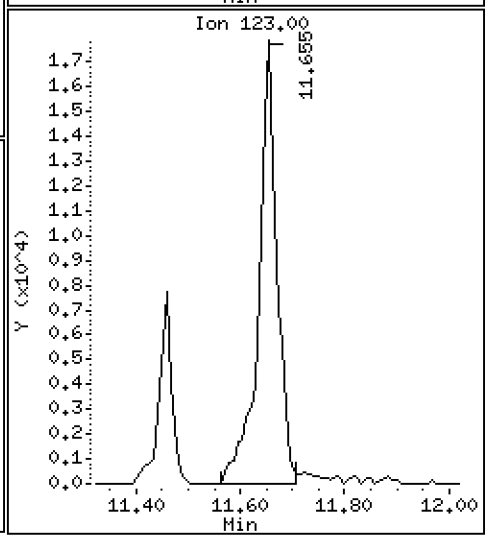












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

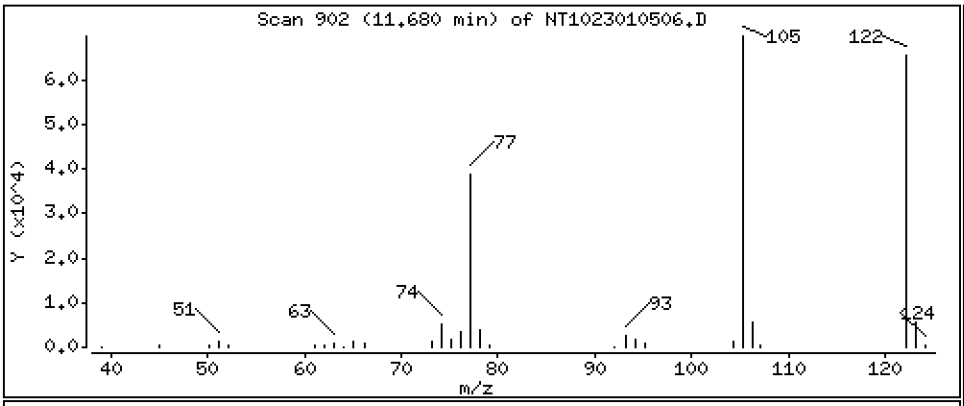
Operator: VTS

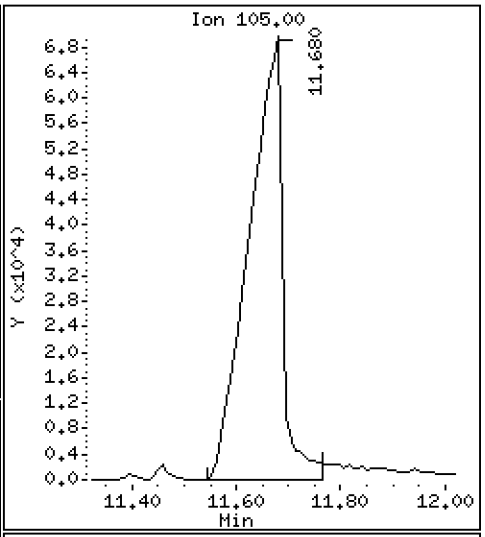
Column phase: ZB-5msi

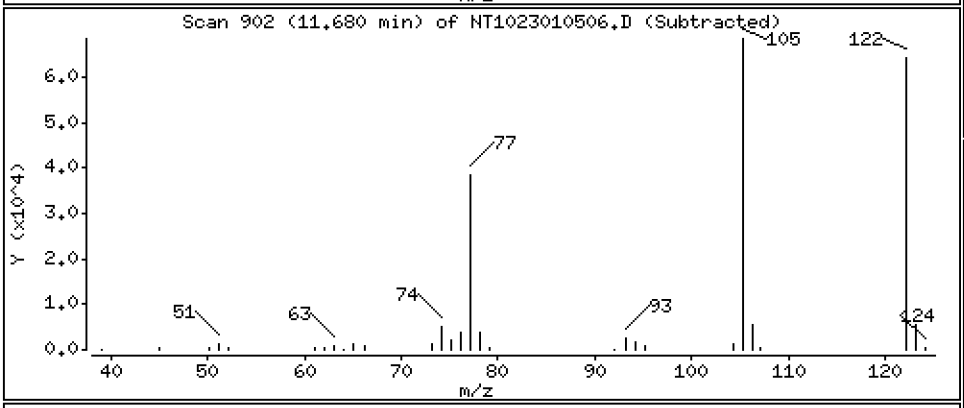
Column diameter: 0.25

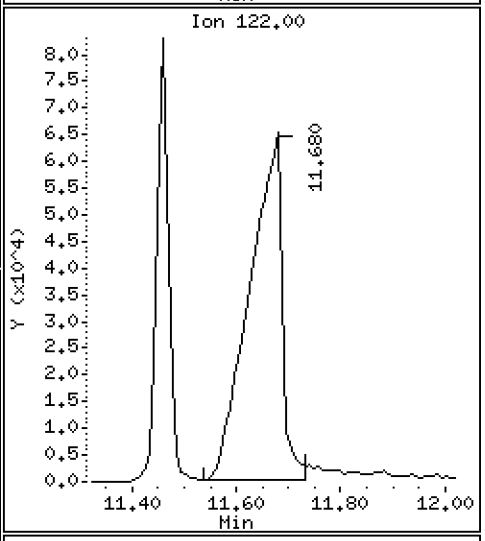
24 Benzoic acid

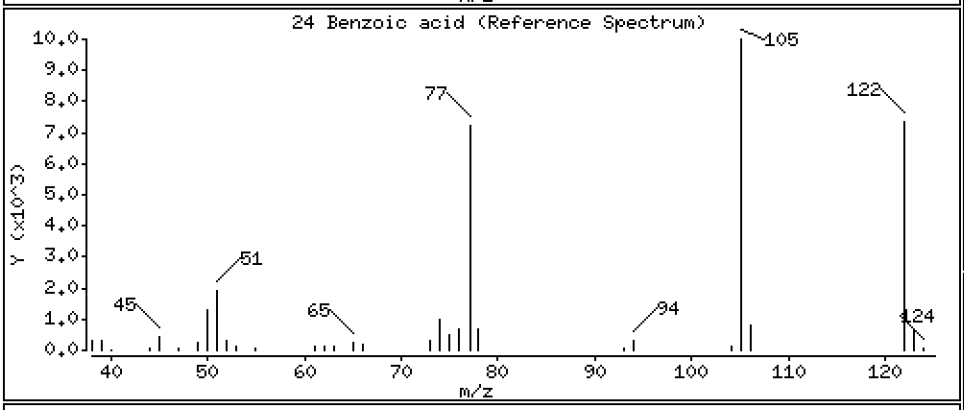
Concentration: 33.38 ug/mL

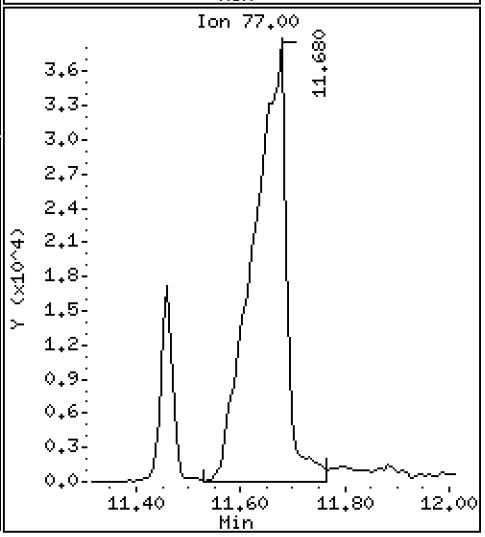


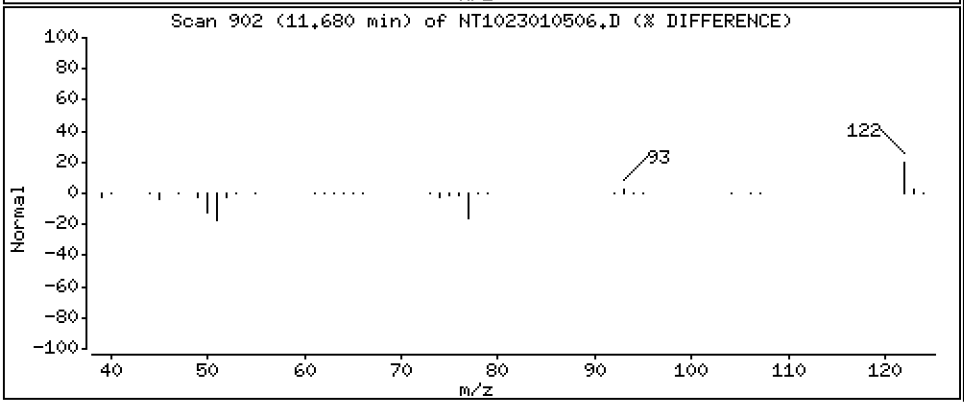












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

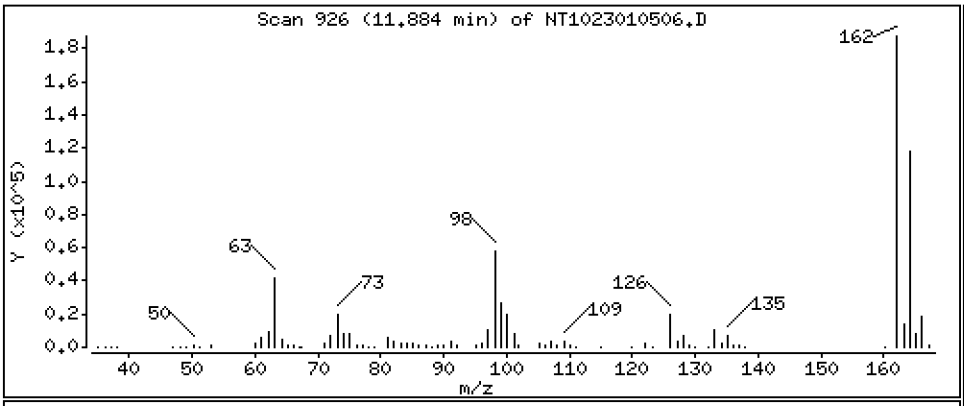
Operator: VTS

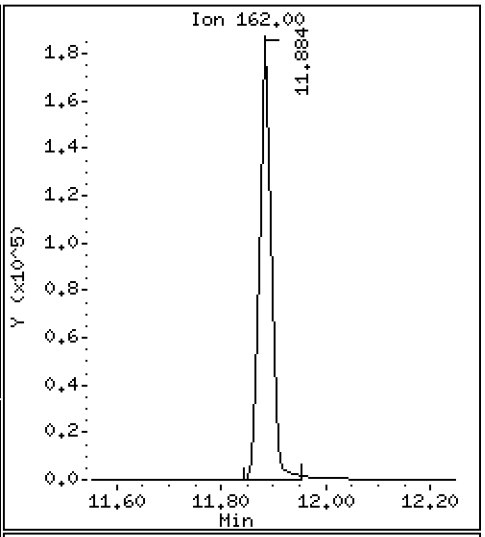
Column phase: ZB-5msi

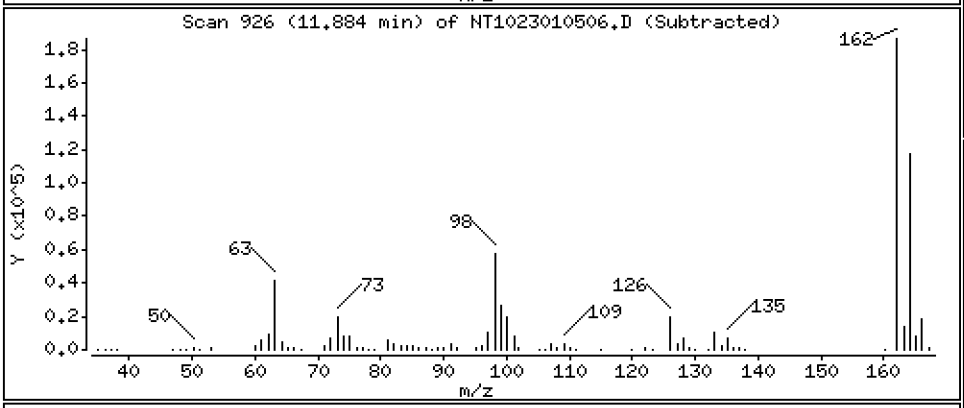
Column diameter: 0.25

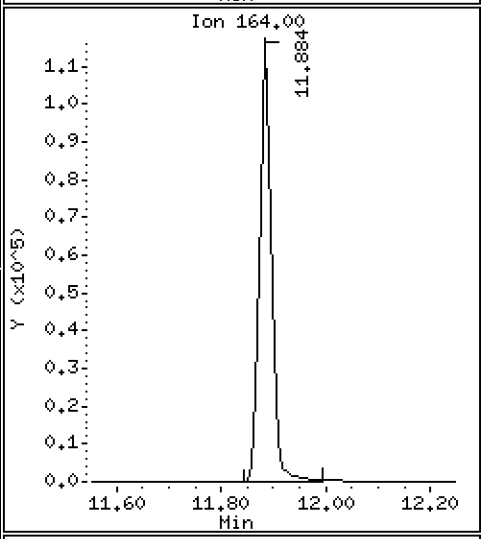
25 2,4-Dichlorophenol

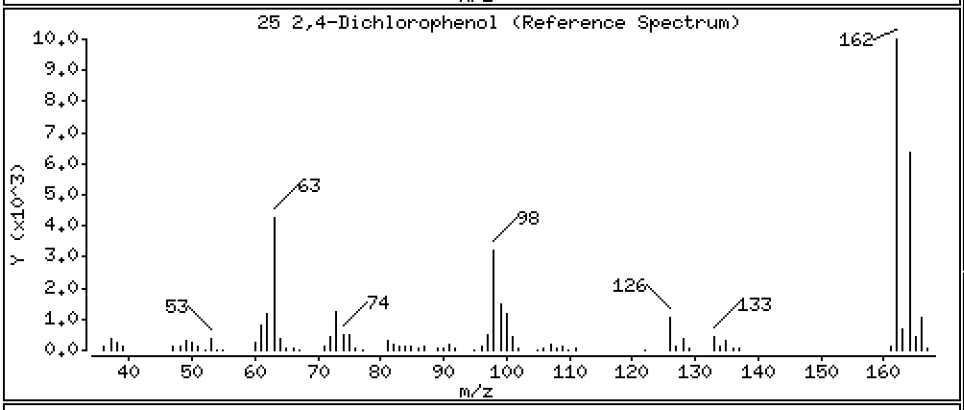
Concentration: 17.60 ug/mL

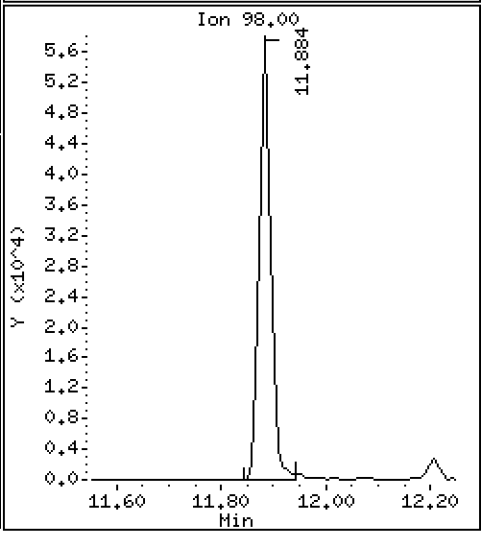


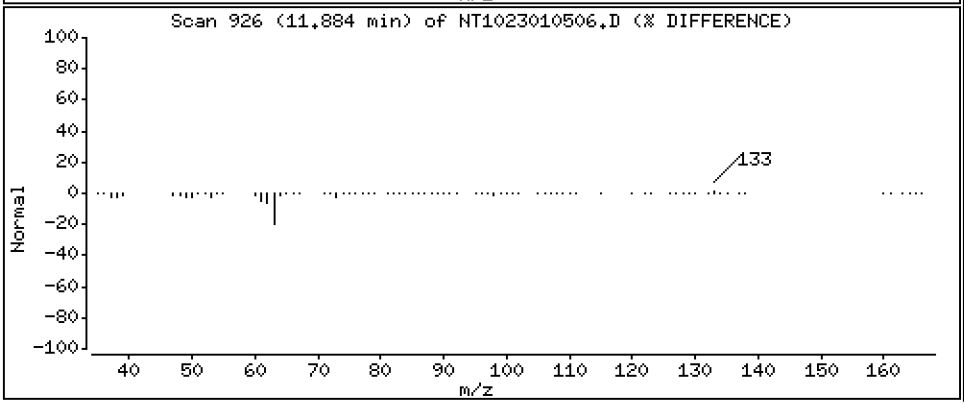












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

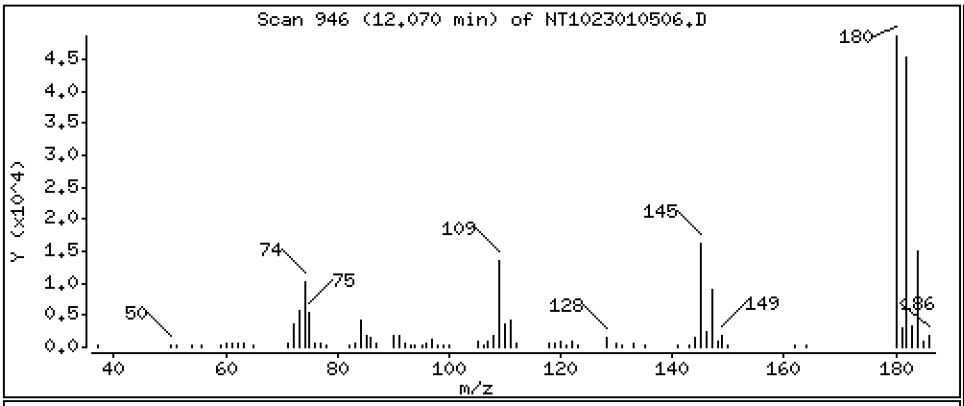
Operator: VTS

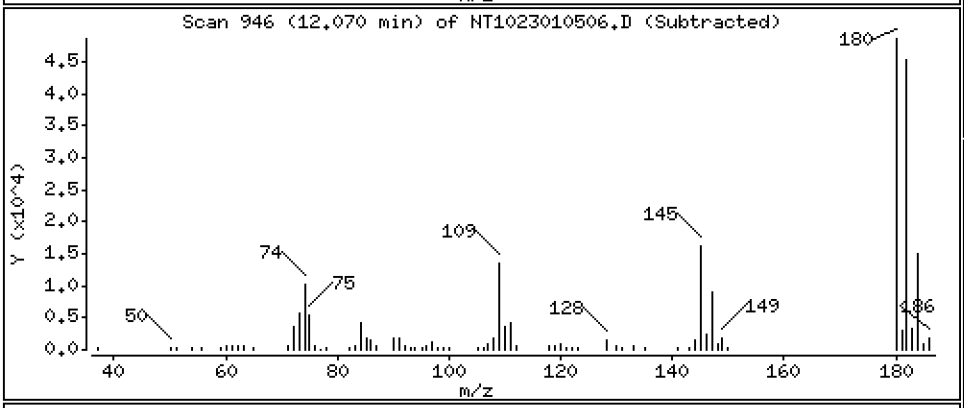
Column phase: ZB-5msi

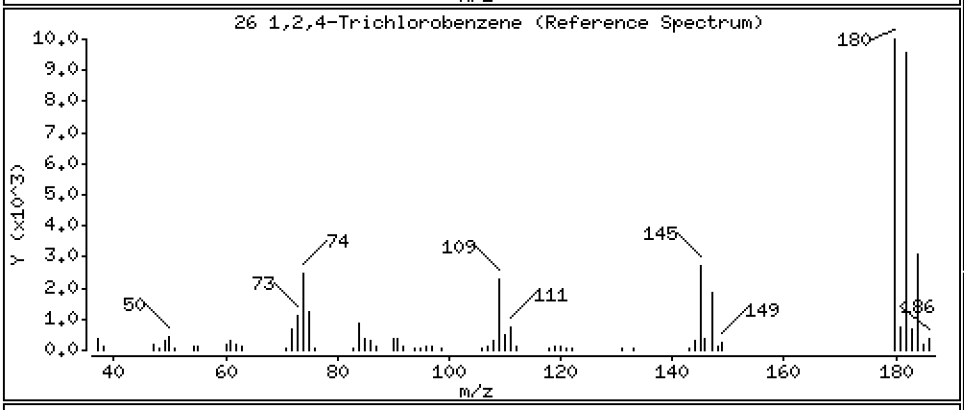
Column diameter: 0.25

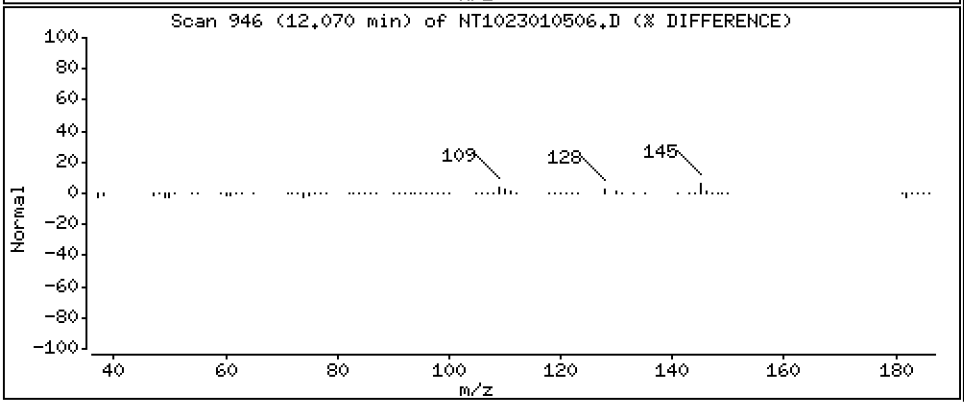
26 1,2,4-Trichlorobenzene

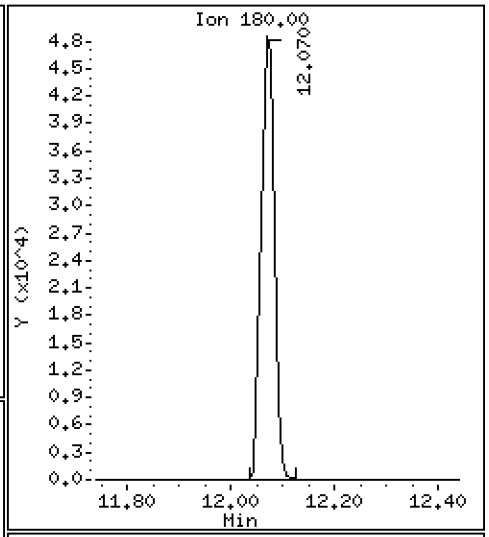
Concentration: 4.598 ug/mL

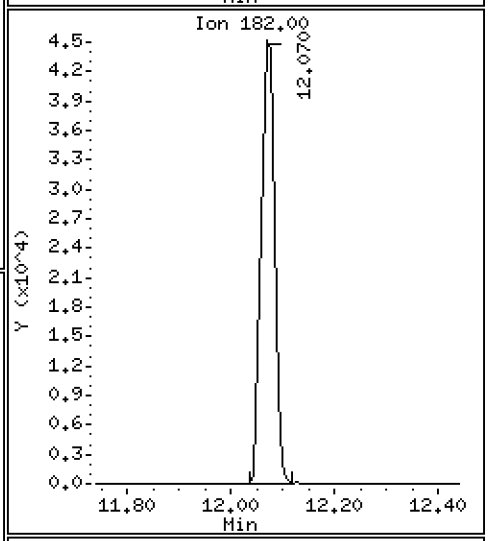


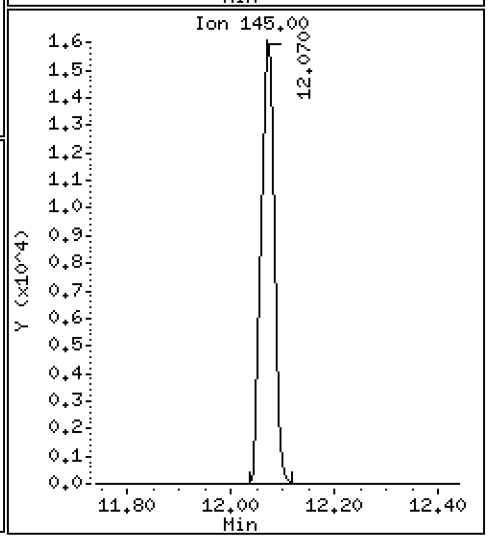












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

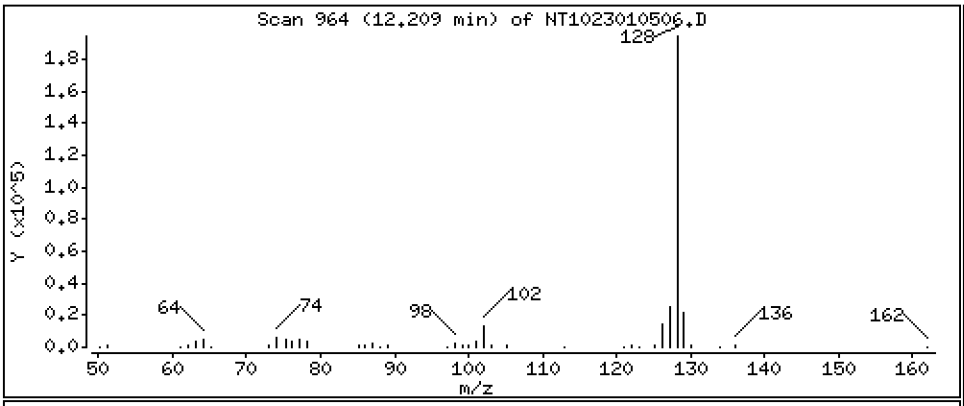
Operator: VTS

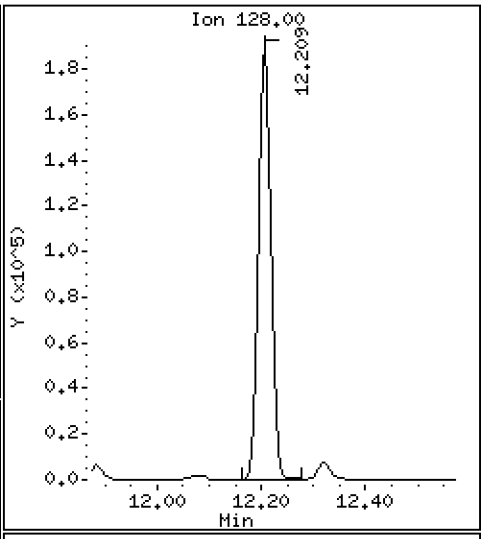
Column phase: ZB-5msi

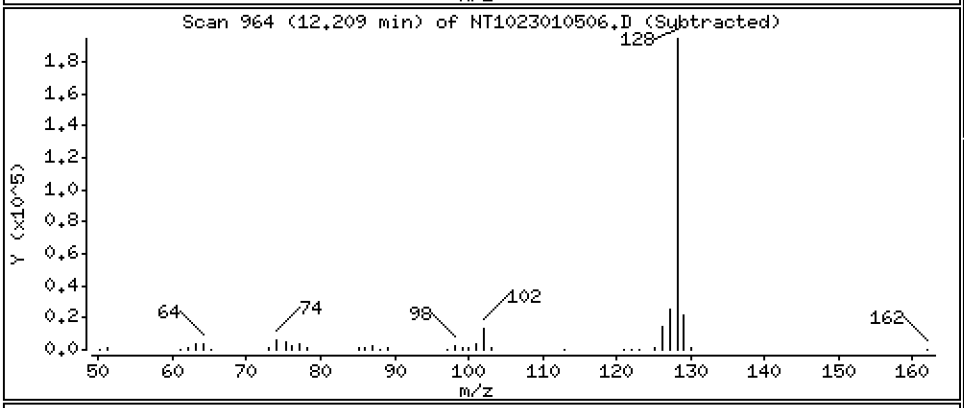
Column diameter: 0.25

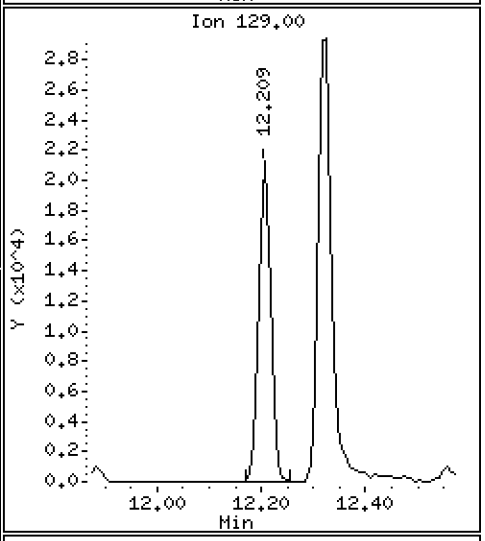
28 Naphthalene

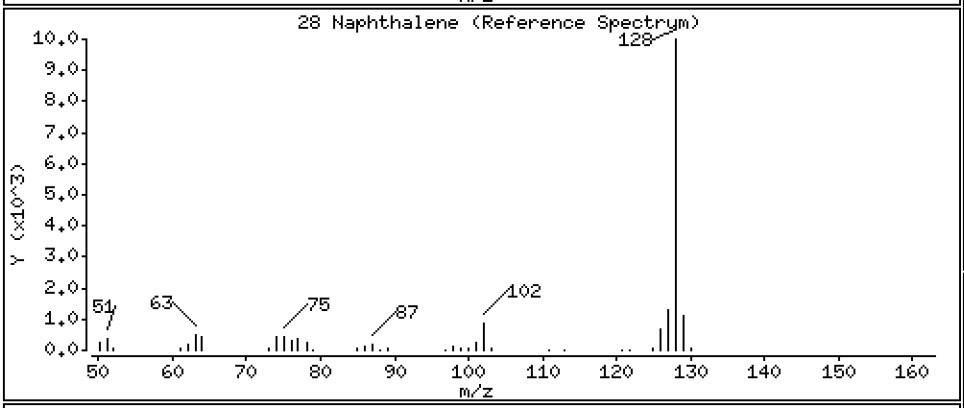
Concentration: 5.126 ug/mL

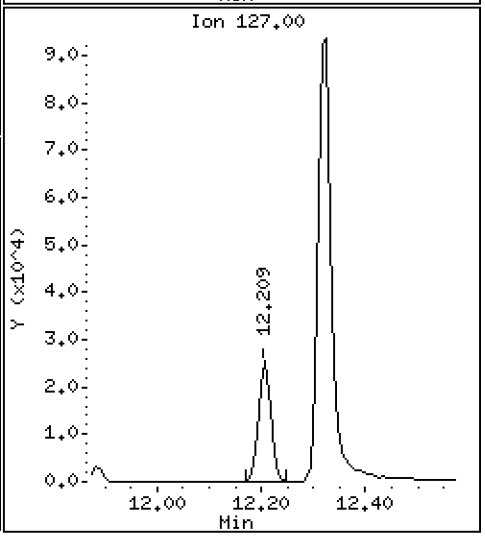


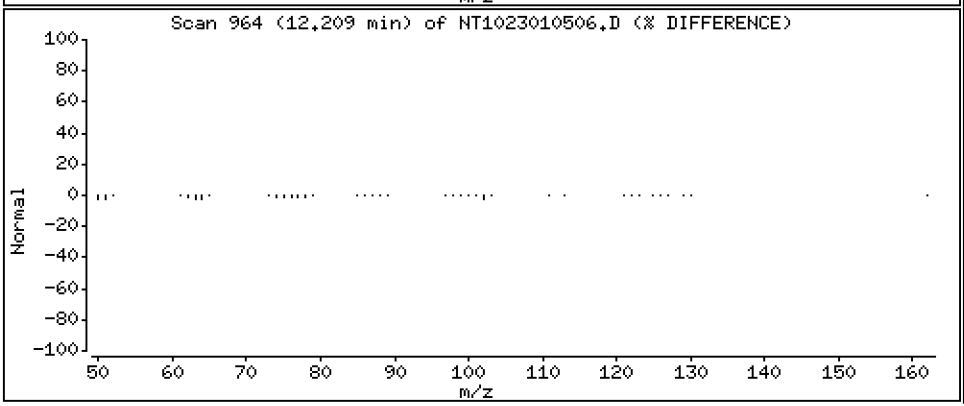












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

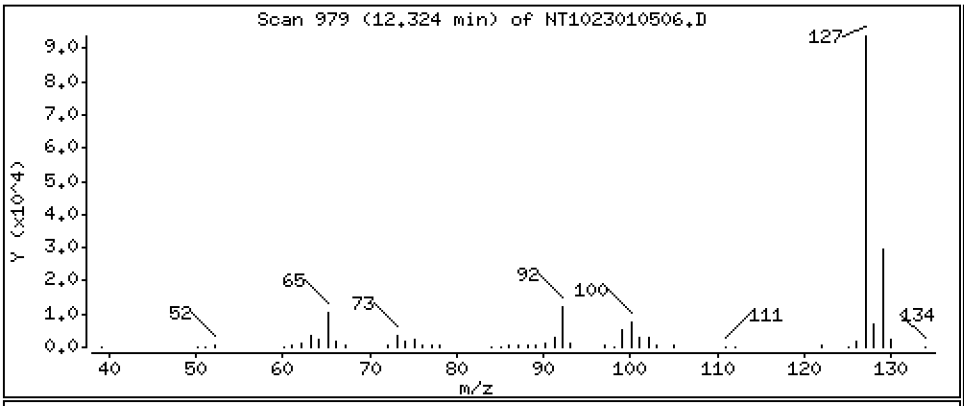
Operator: VTS

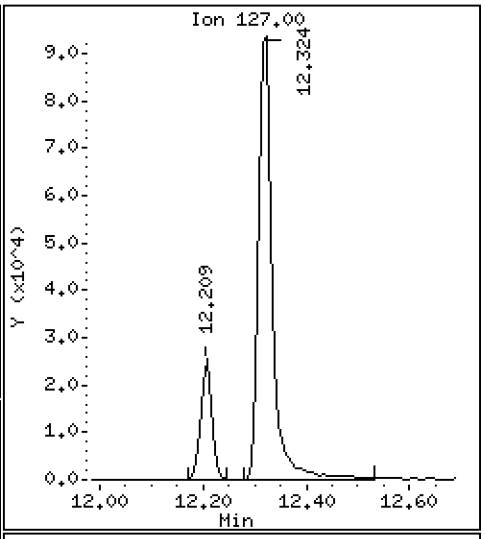
Column phase: ZB-5msi

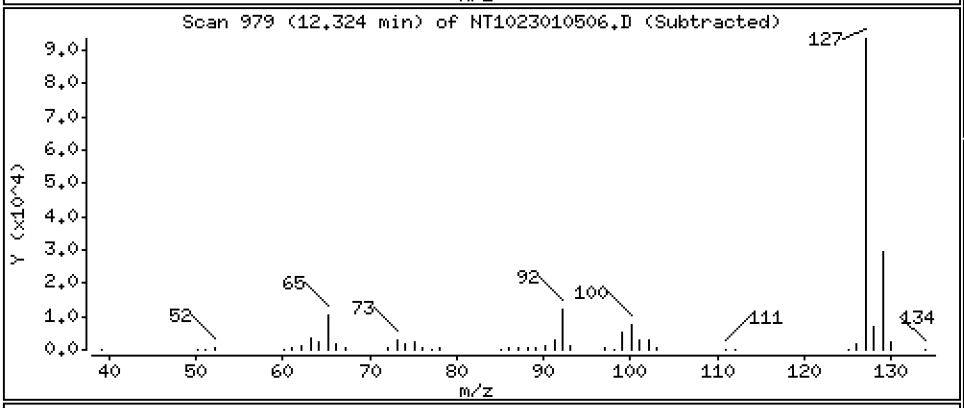
Column diameter: 0.25

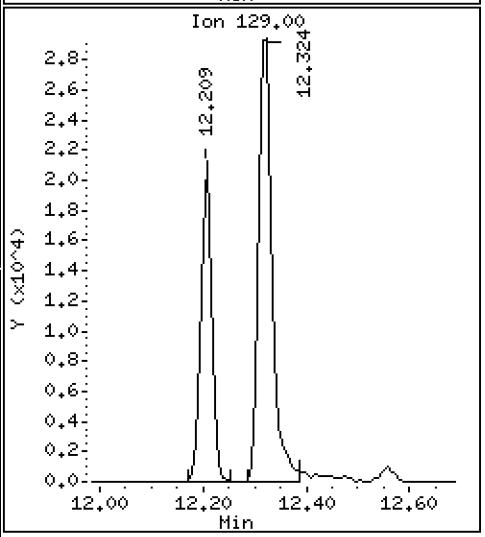
29 4-Chloroaniline

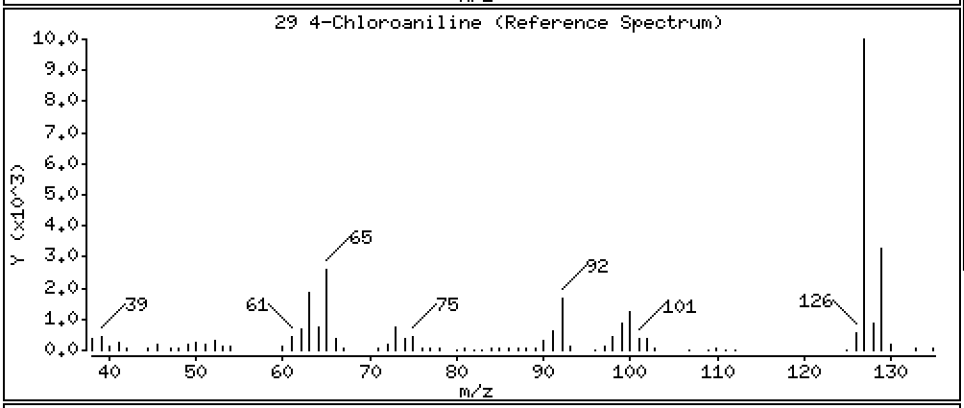
Concentration: 8.247 ug/mL

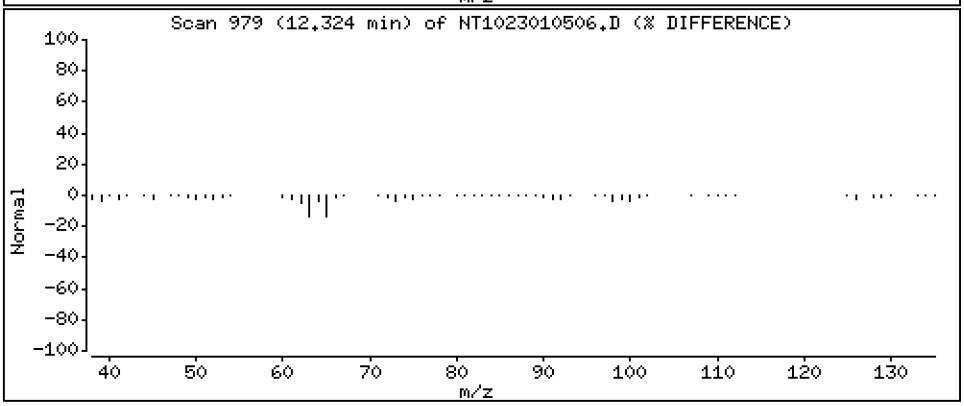












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

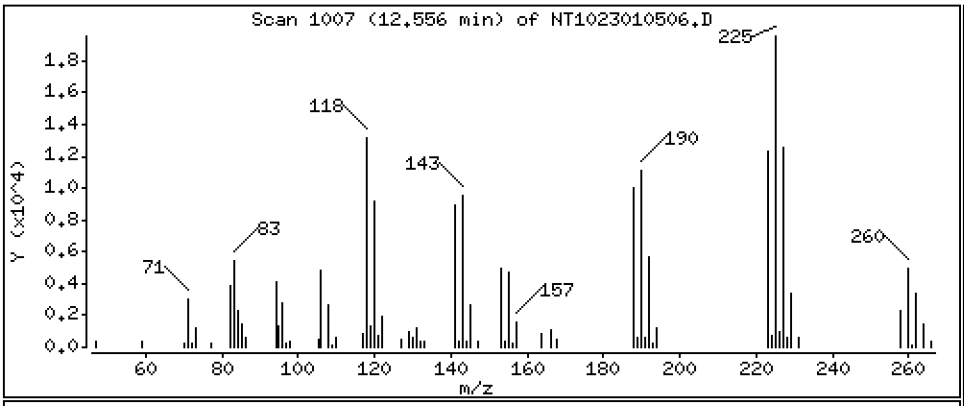
Operator: VTS

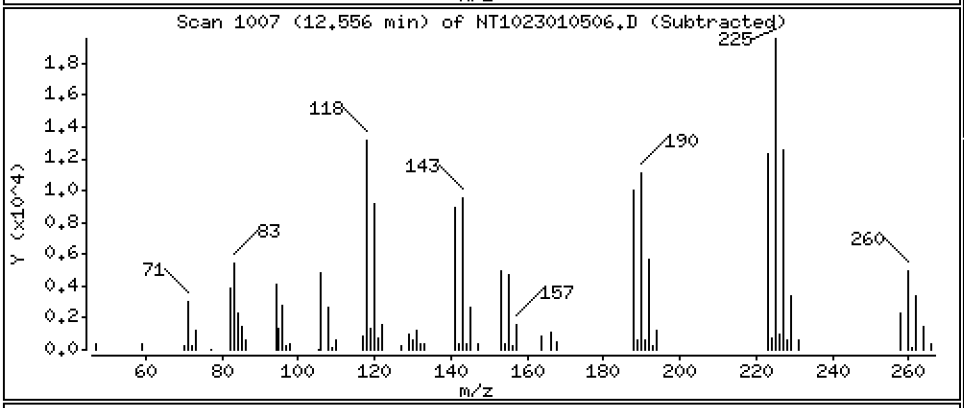
Column phase: ZB-5msi

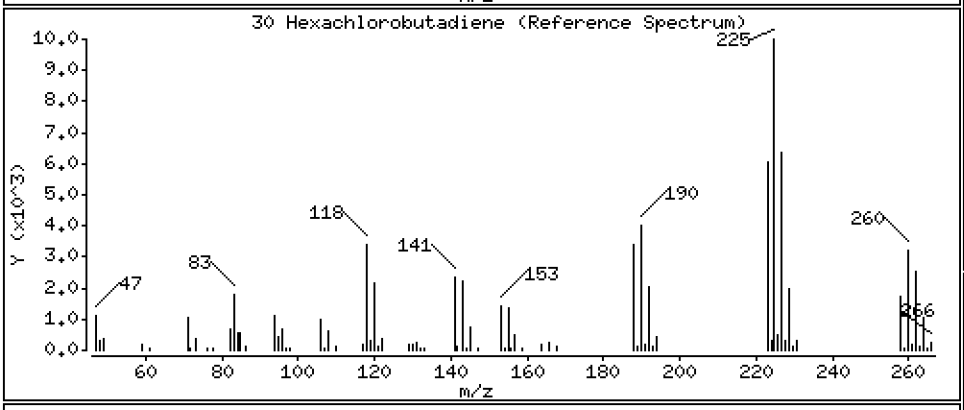
Column diameter: 0.25

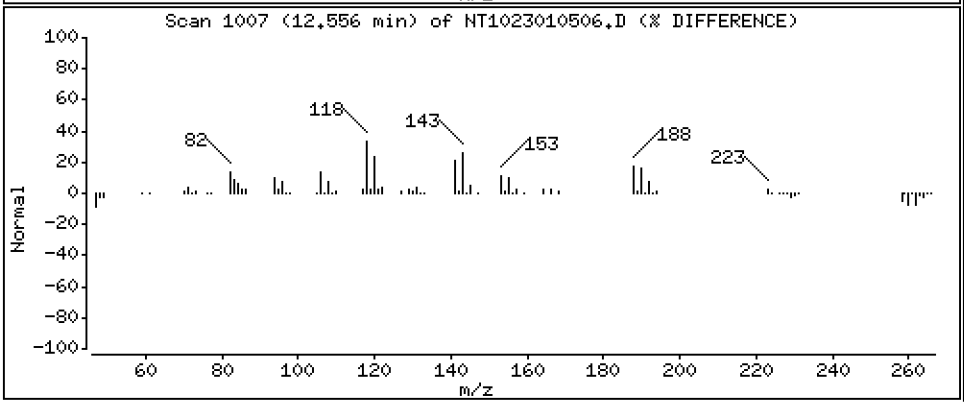
30 Hexachlorobutadiene

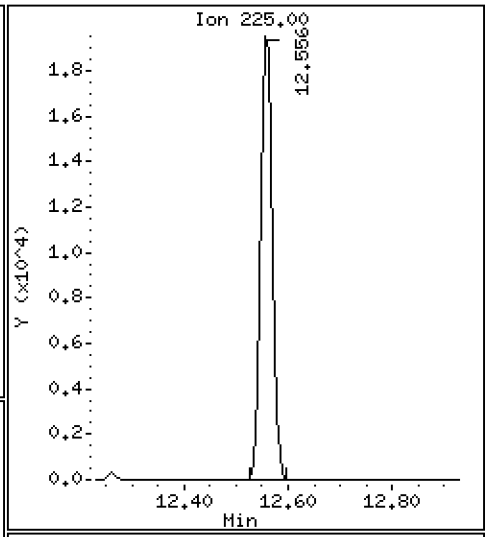
Concentration: 5.024 ug/mL

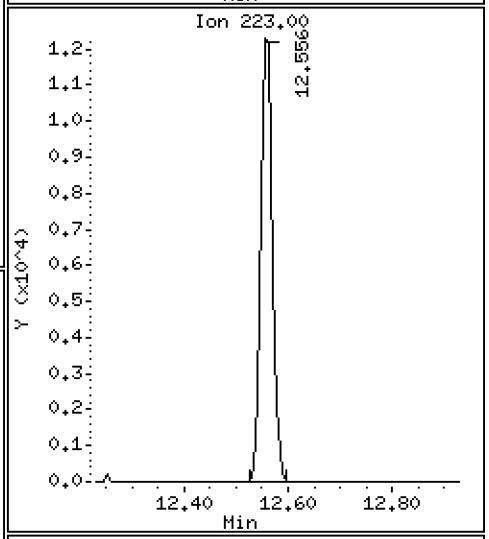


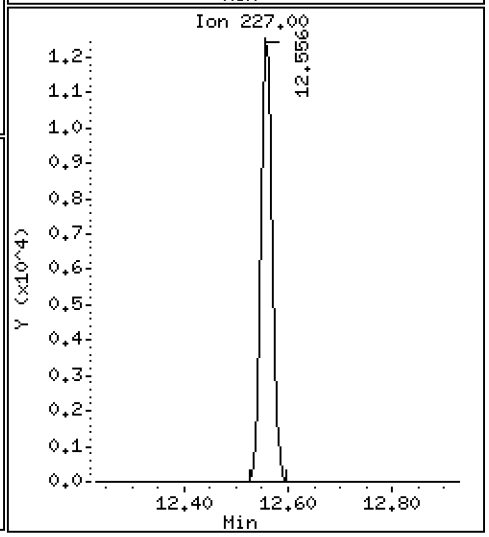












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

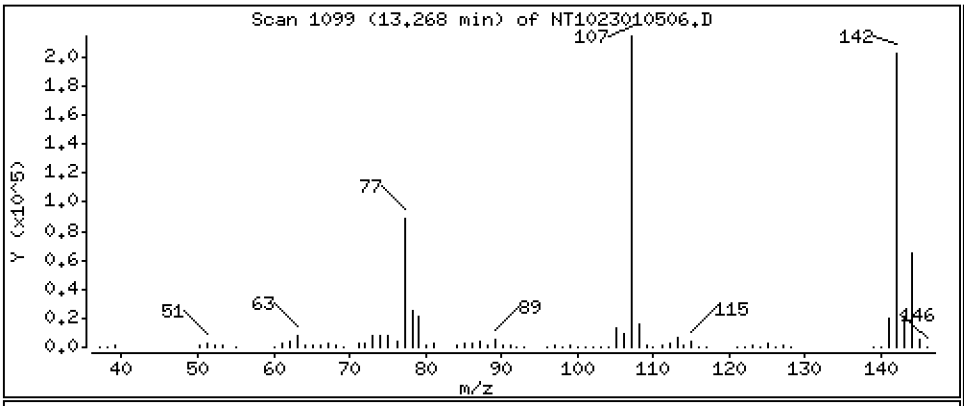
Operator: VTS

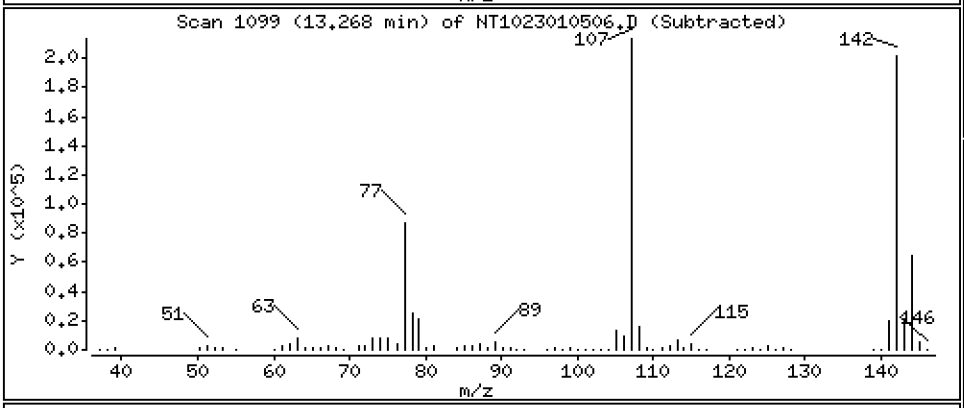
Column phase: ZB-5msi

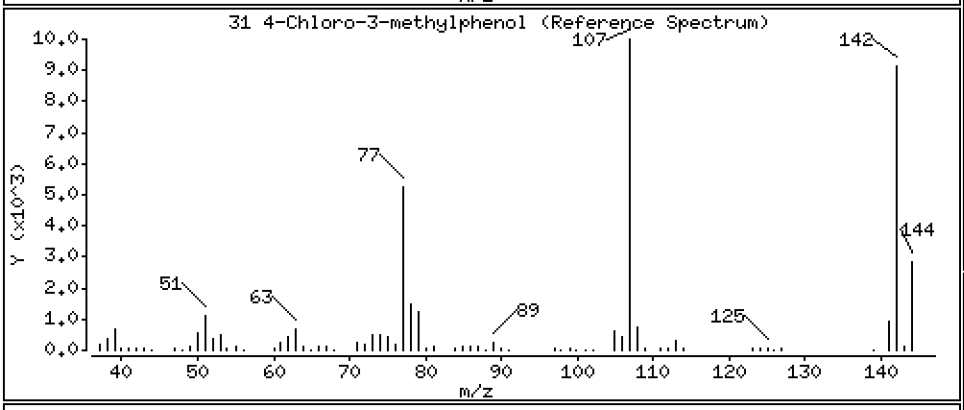
Column diameter: 0.25

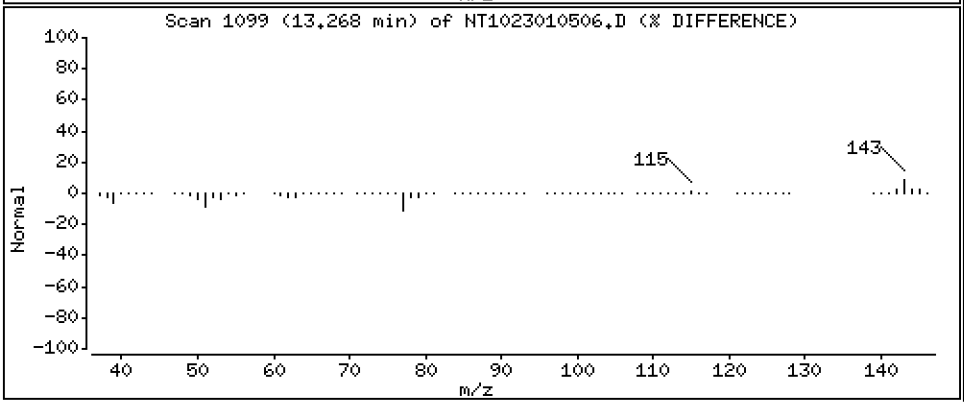
31 4-Chloro-3-methylphenol

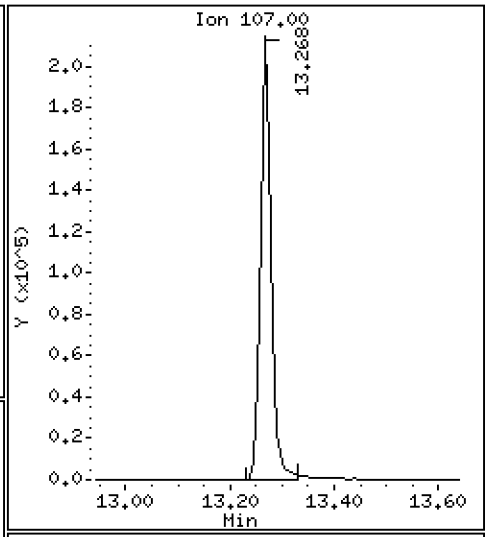
Concentration: 17.15 ug/mL

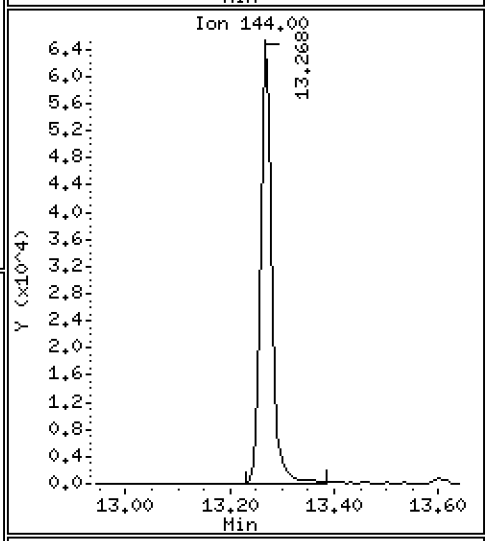


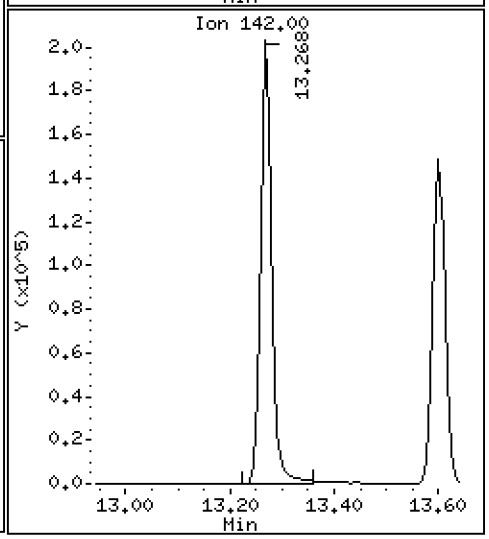












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

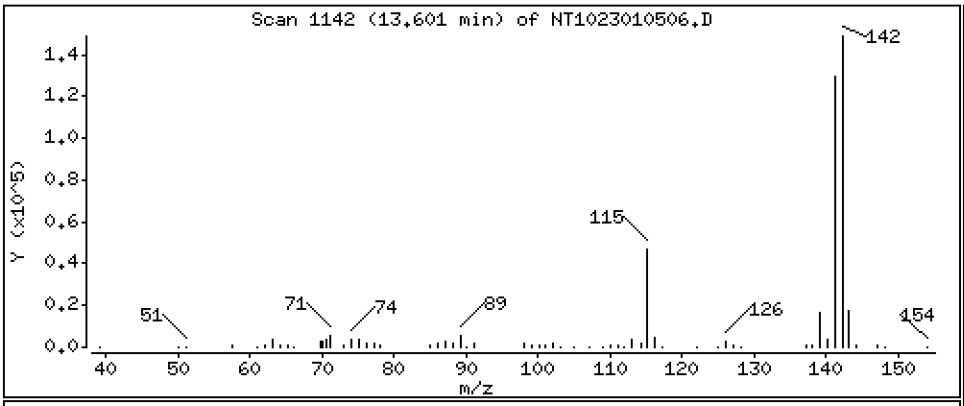
Operator: VTS

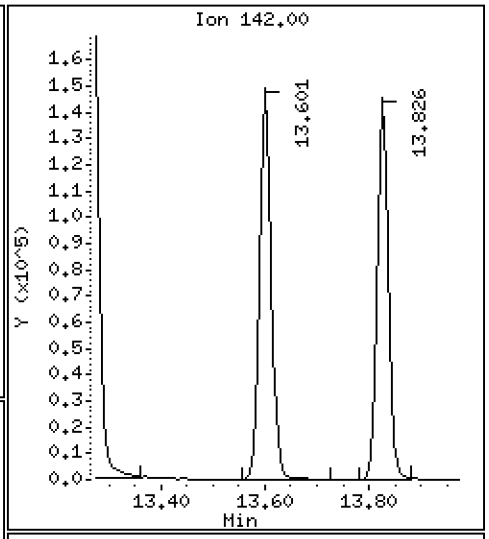
Column phase: ZB-5msi

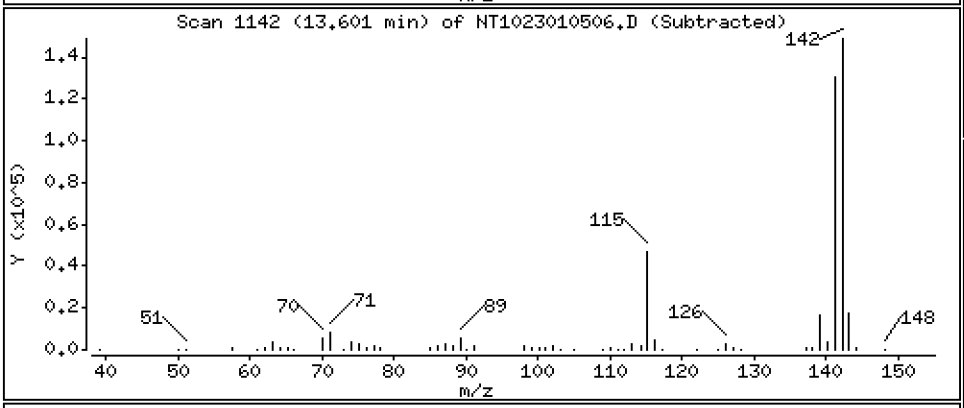
Column diameter: 0.25

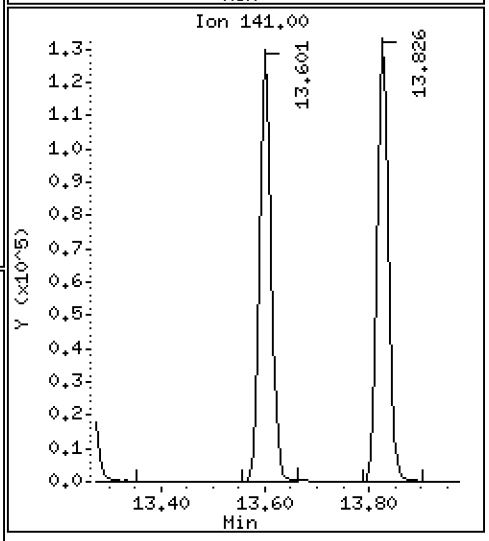
32 2-Methylnaphthalene

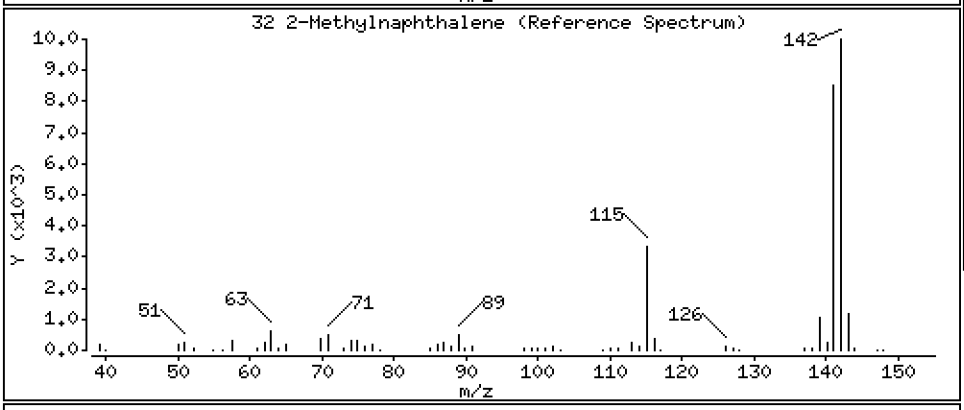
Concentration: 5.036 ug/mL

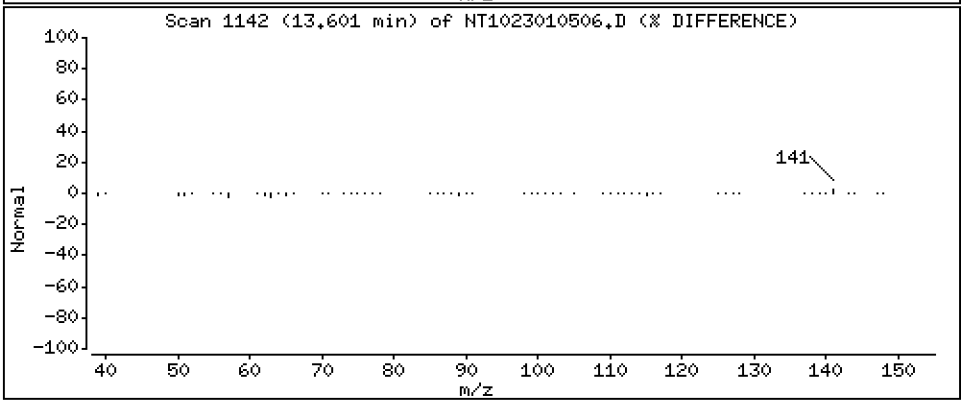












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

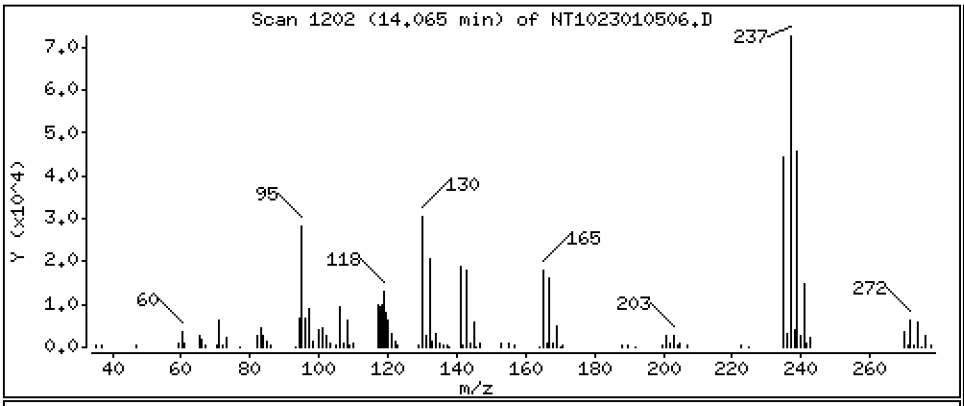
Operator: VTS

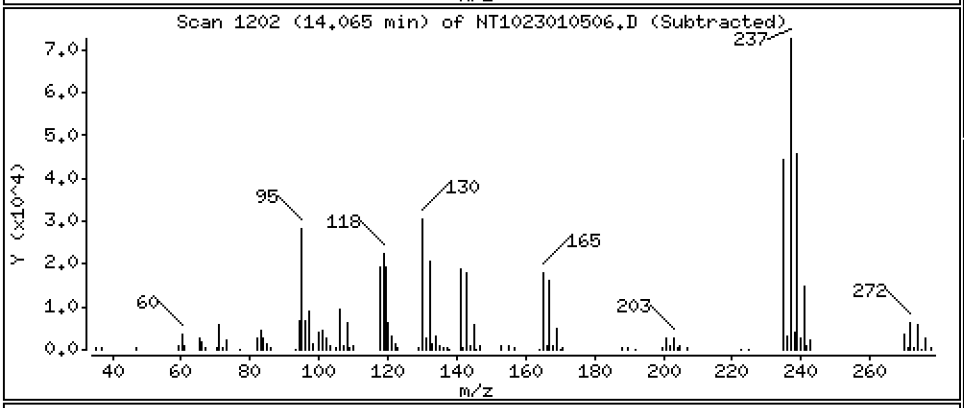
Column phase: ZB-5msi

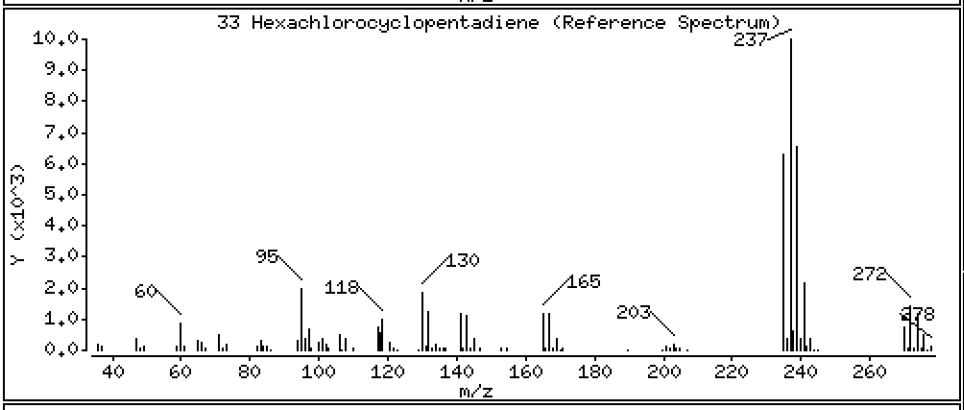
Column diameter: 0.25

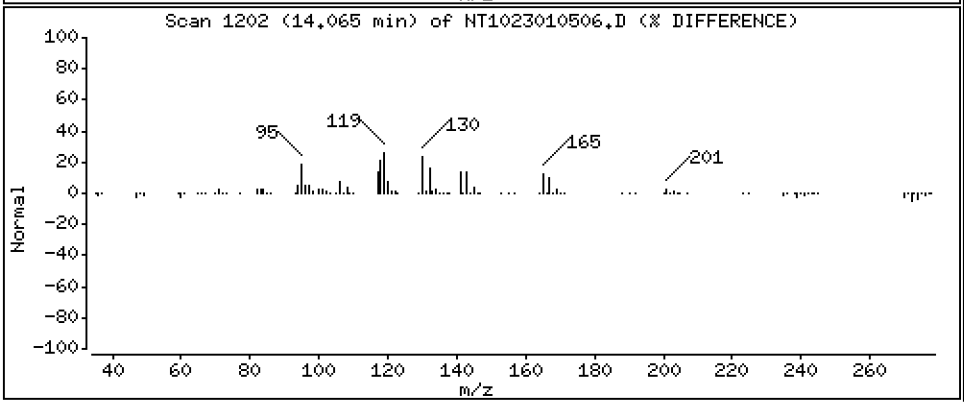
33 Hexachlorocyclopentadiene

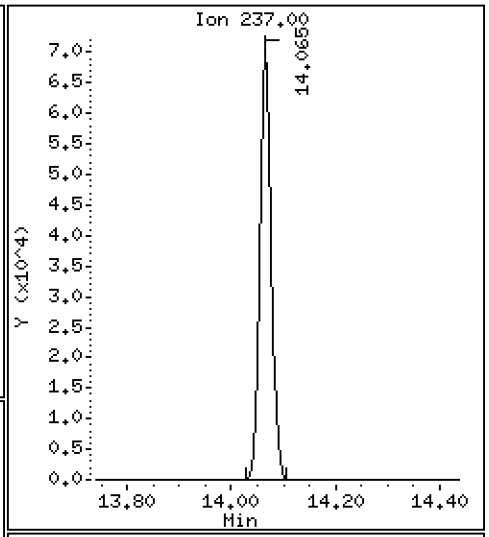
Concentration: 16.14 ug/mL

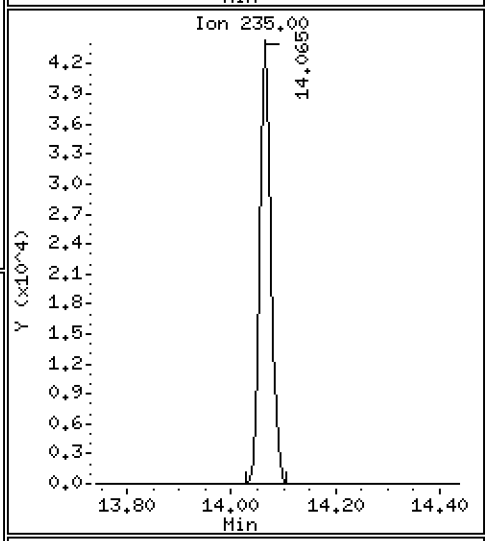


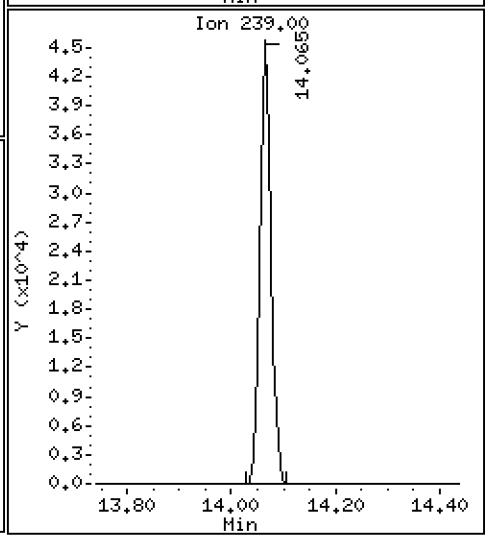












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

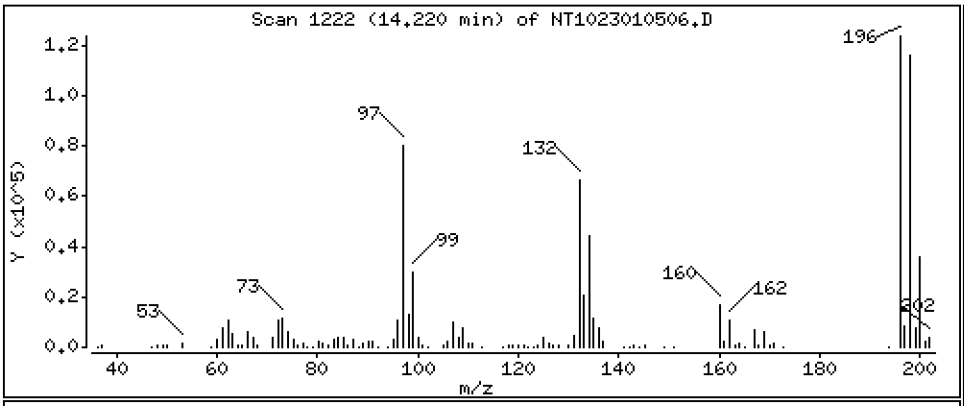
Operator: VTS

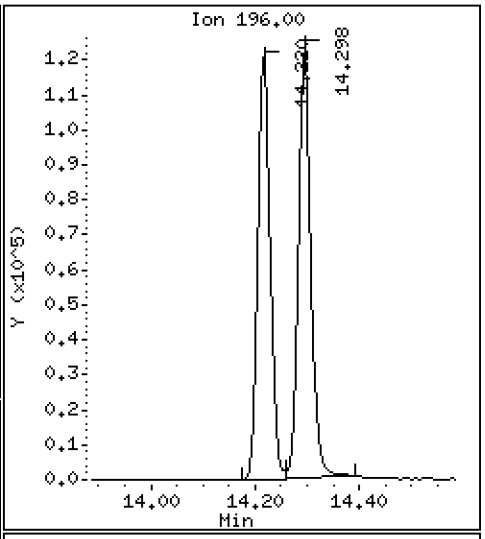
Column phase: ZB-5msi

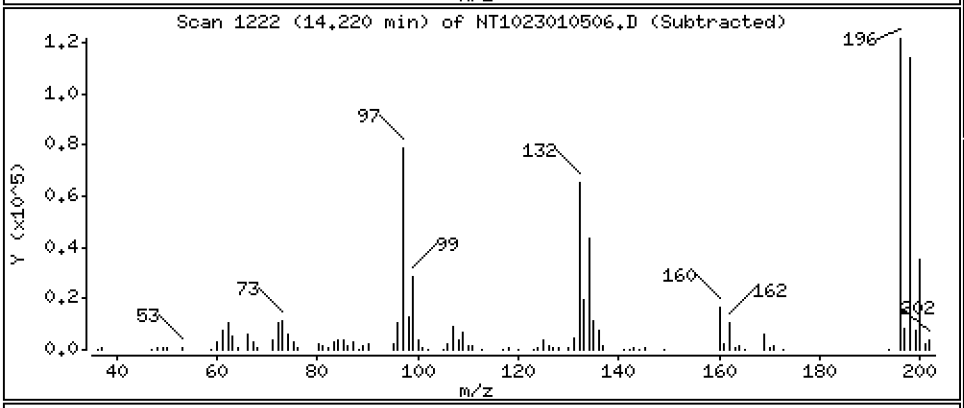
Column diameter: 0.25

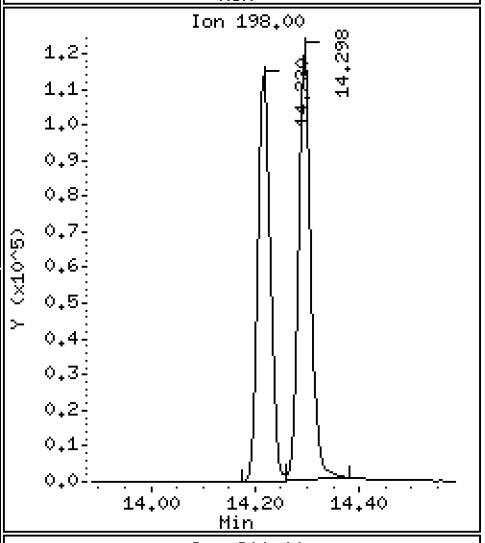
34 2,4,6-Trichlorophenol

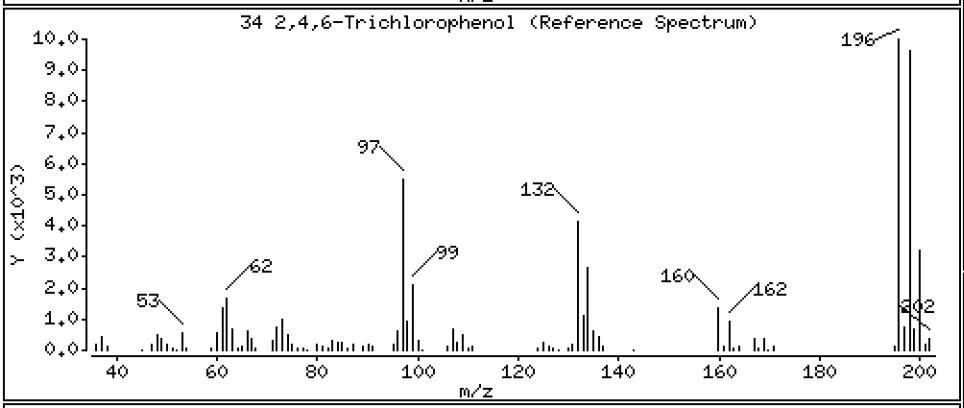
Concentration: 19.46 ug/mL

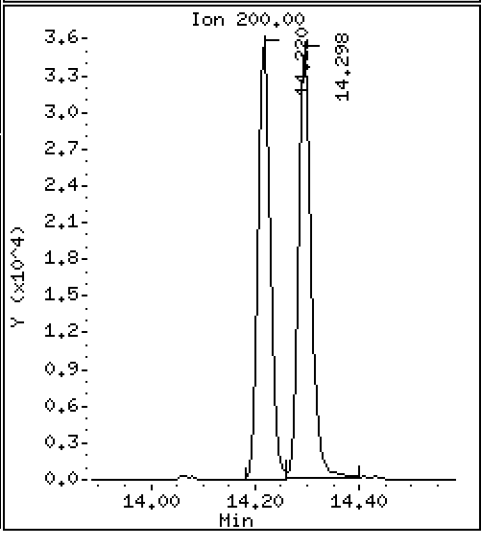


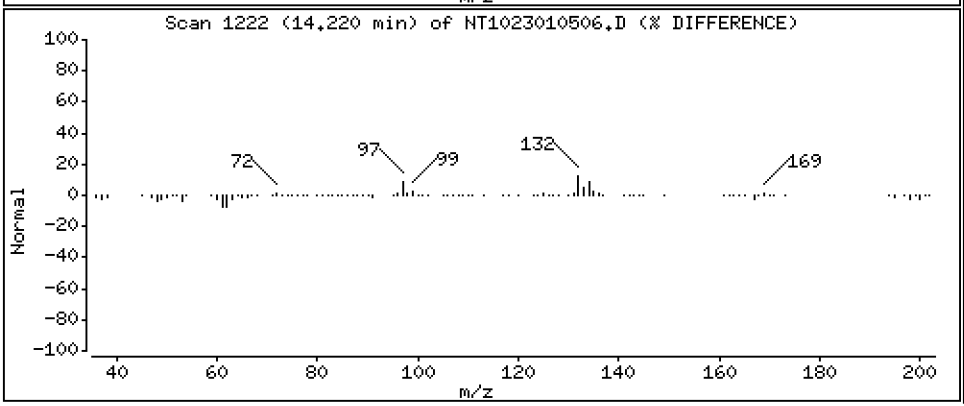












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

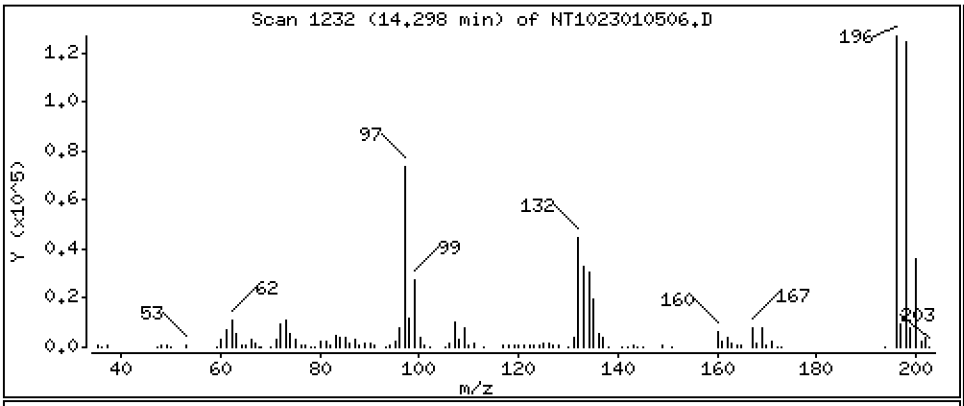
Operator: VTS

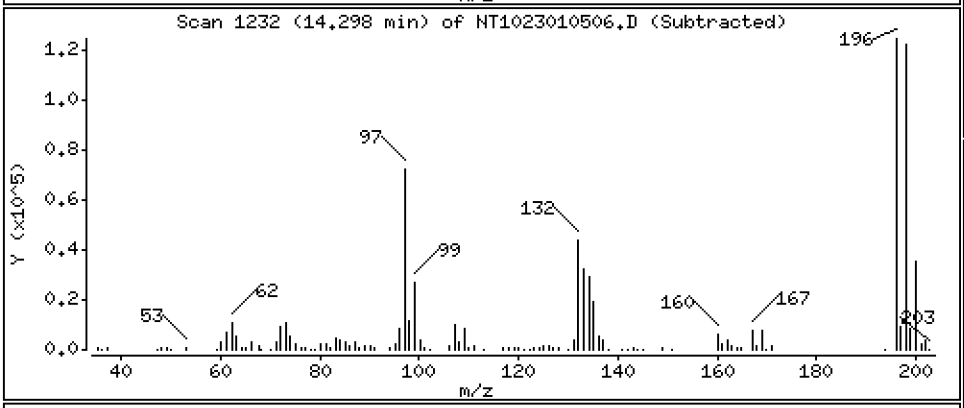
Column phase: ZB-5msi

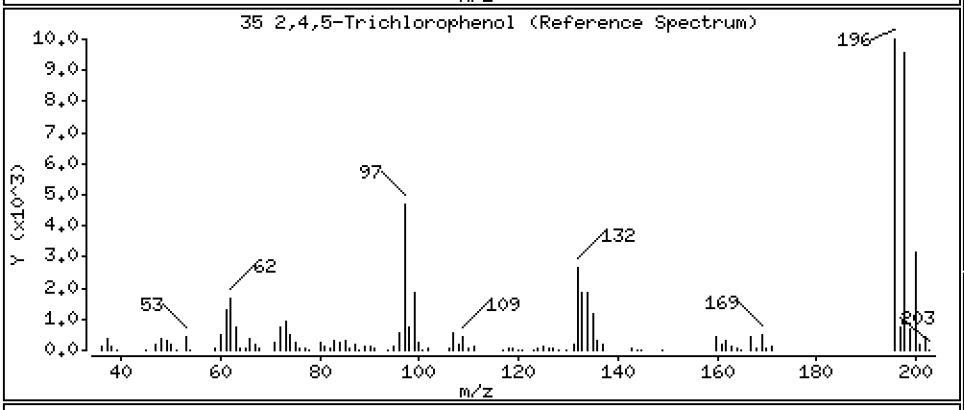
Column diameter: 0.25

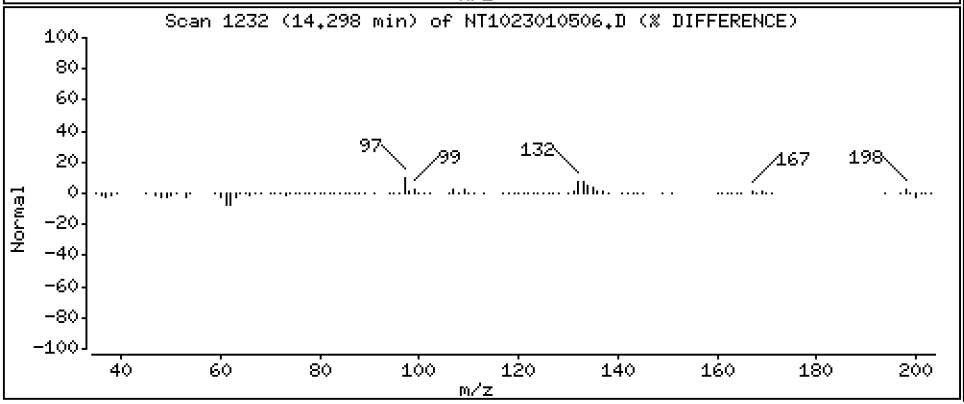
35 2,4,5-Trichlorophenol

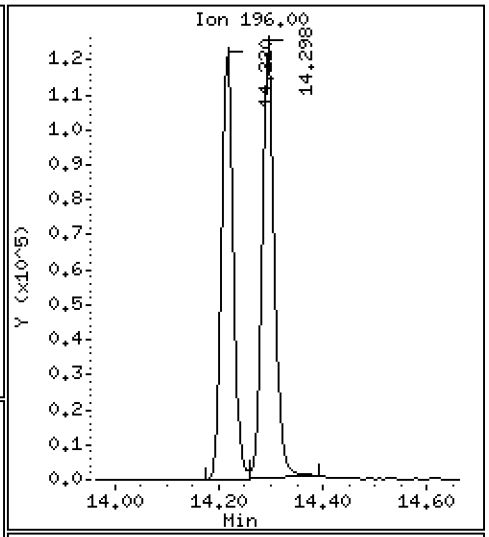
Concentration: 18.64 ug/mL

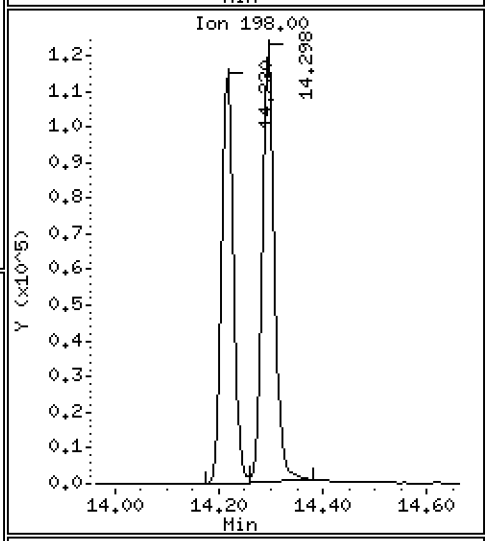


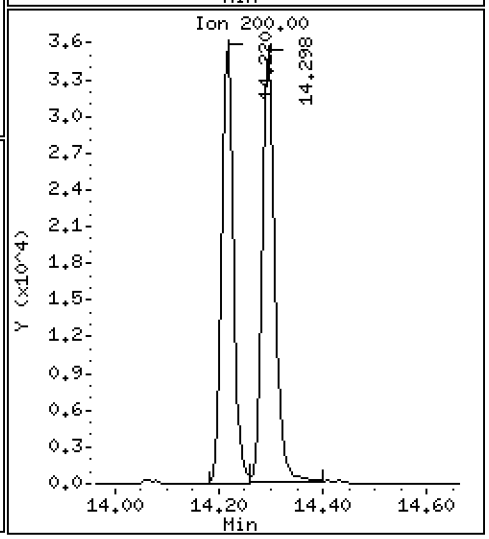












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

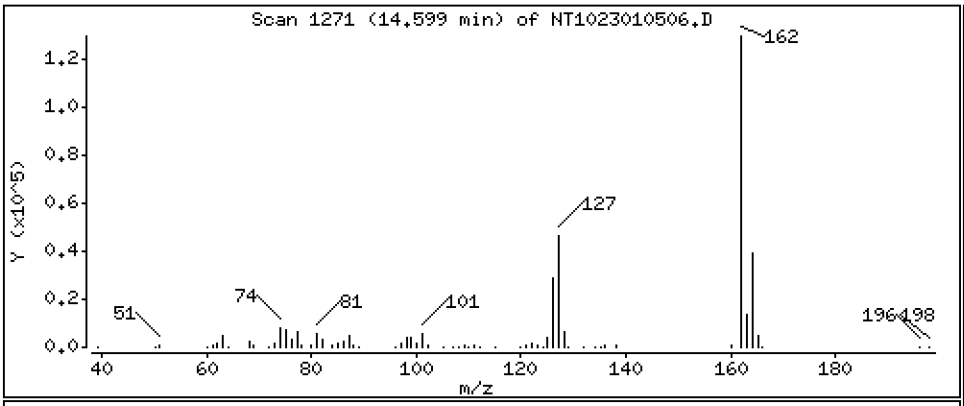
Operator: VTS

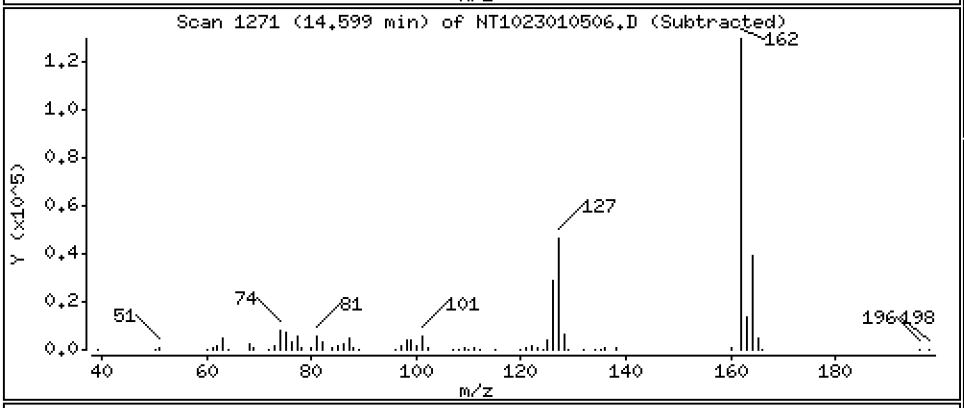
Column phase: ZB-5msi

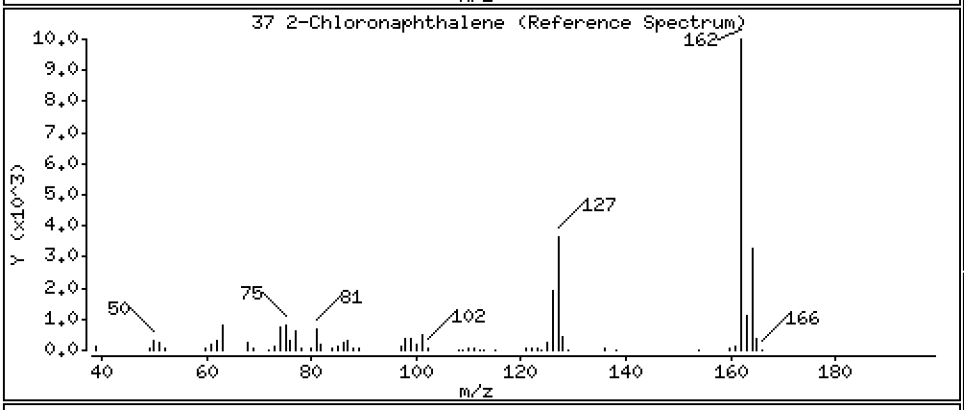
Column diameter: 0.25

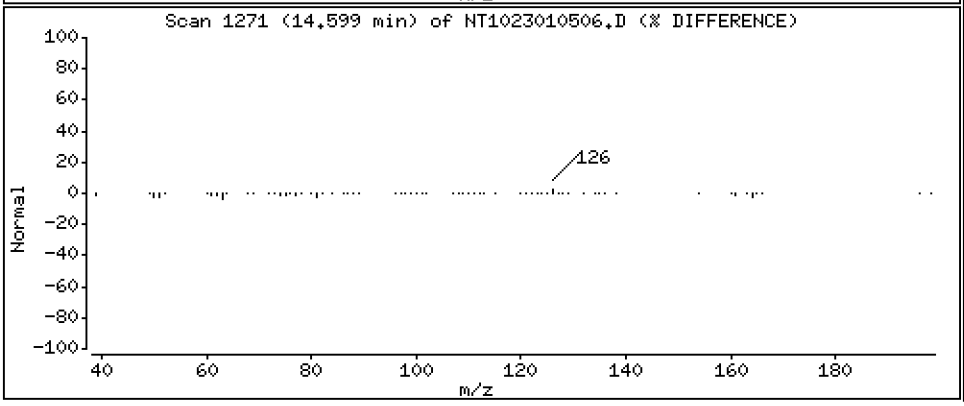
37 2-Chloronaphthalene

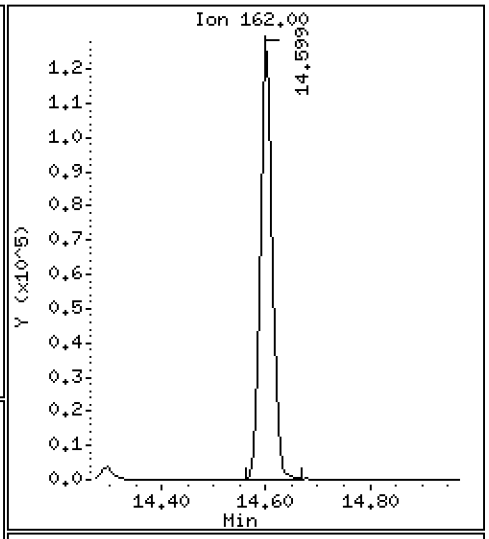
Concentration: 5.372 ug/mL

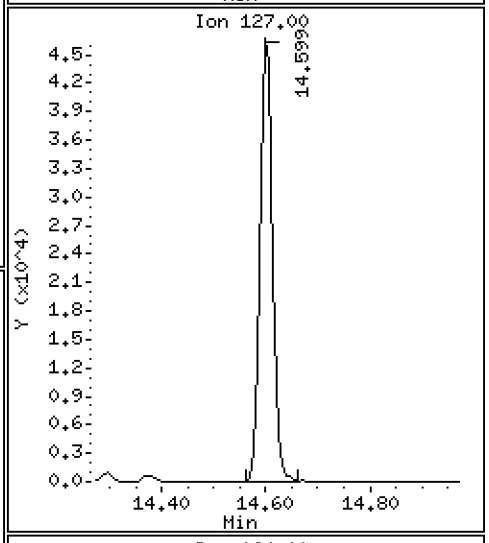


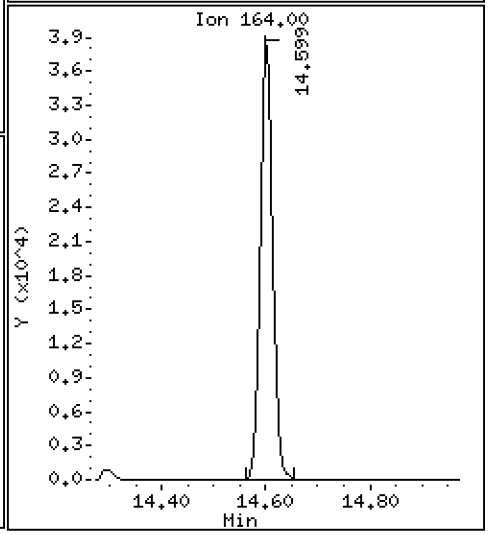












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

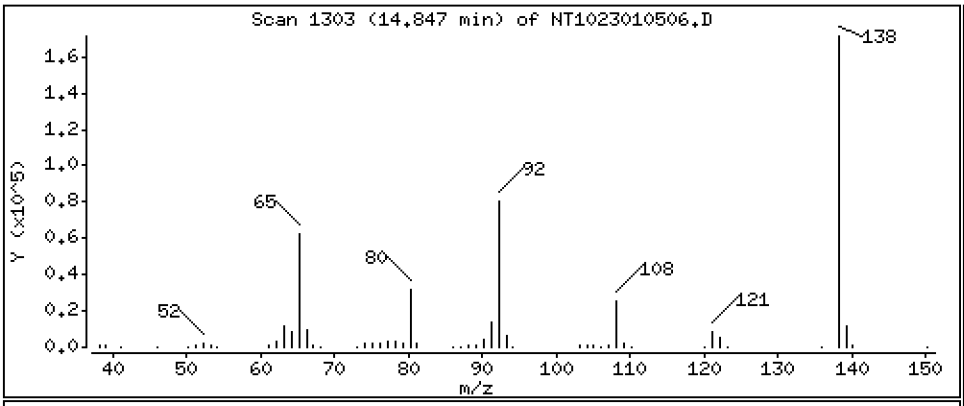
Operator: VTS

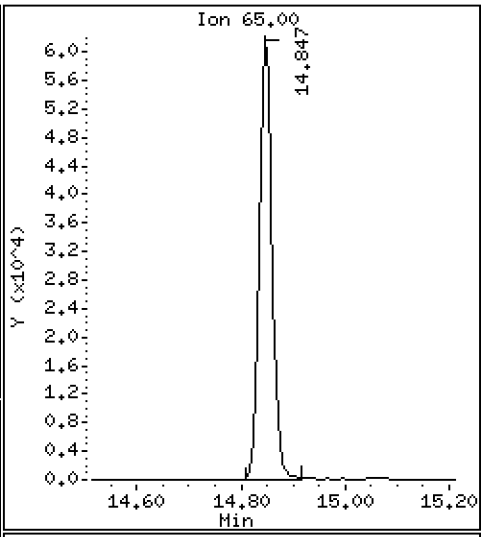
Column phase: ZB-5msi

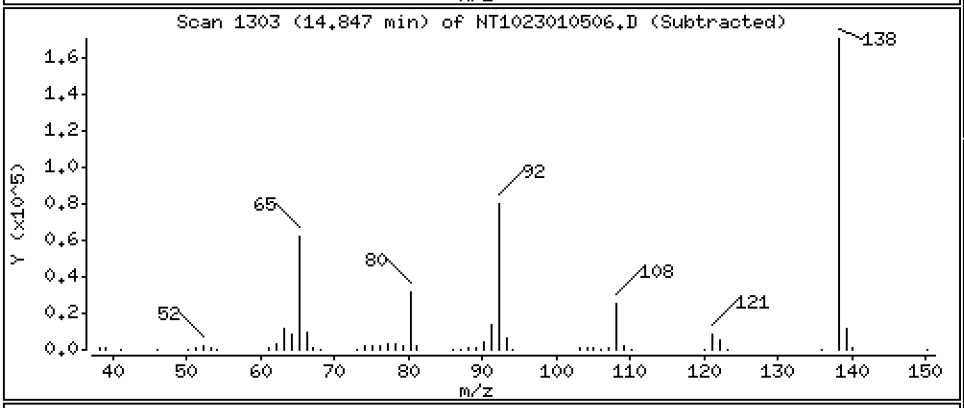
Column diameter: 0.25

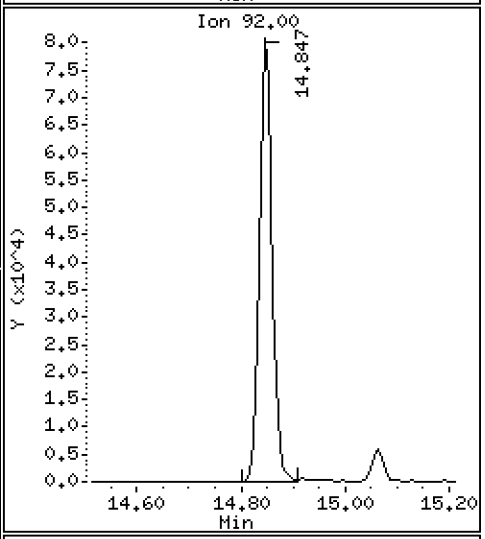
38 2-Nitroaniline

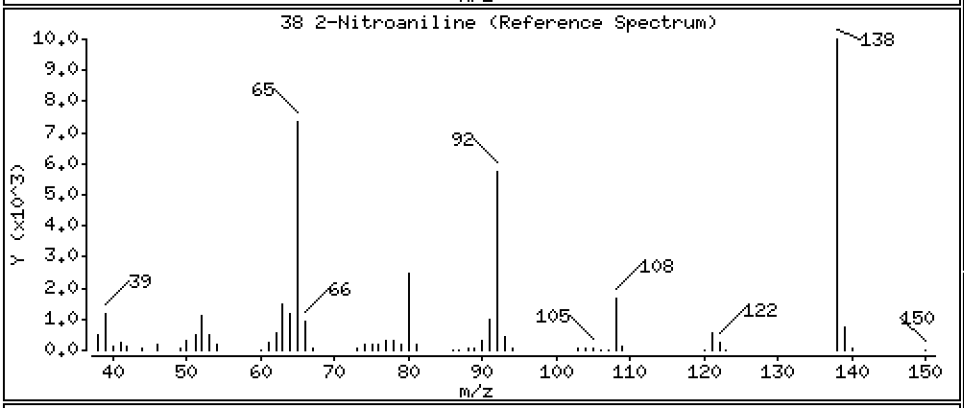
Concentration: 18.86 ug/mL

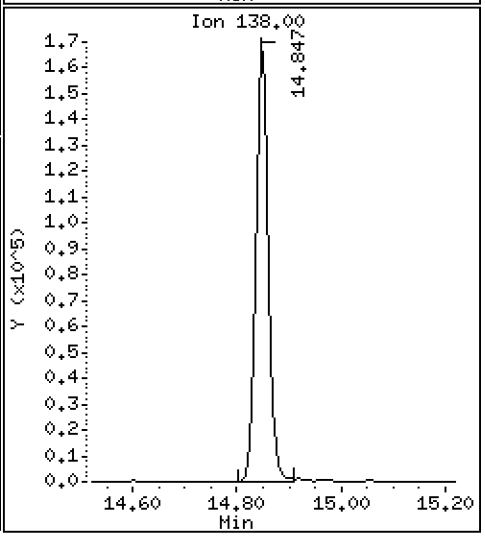


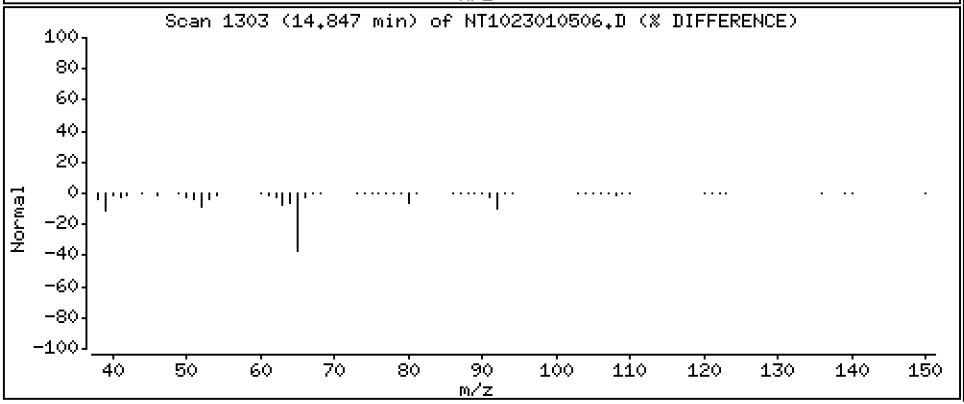












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

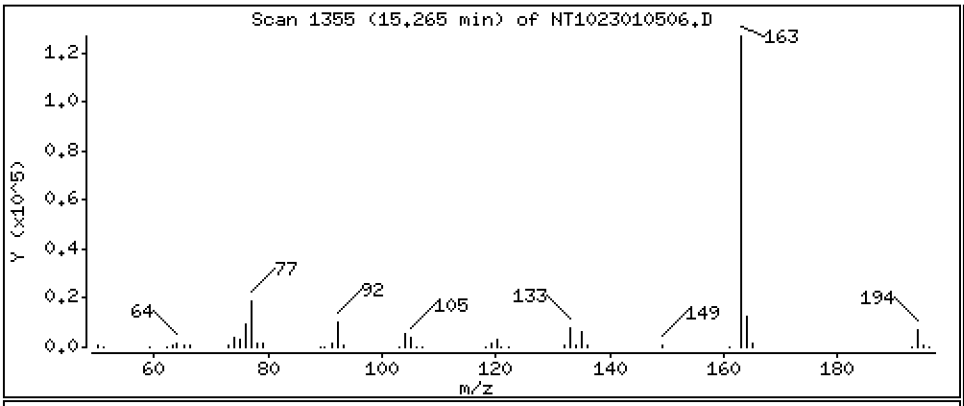
Operator: VTS

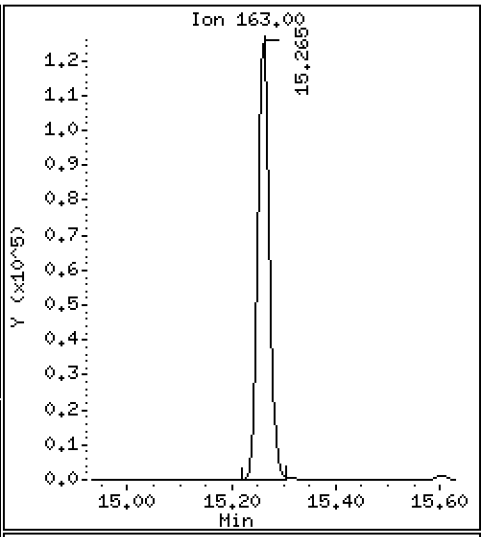
Column phase: ZB-5msi

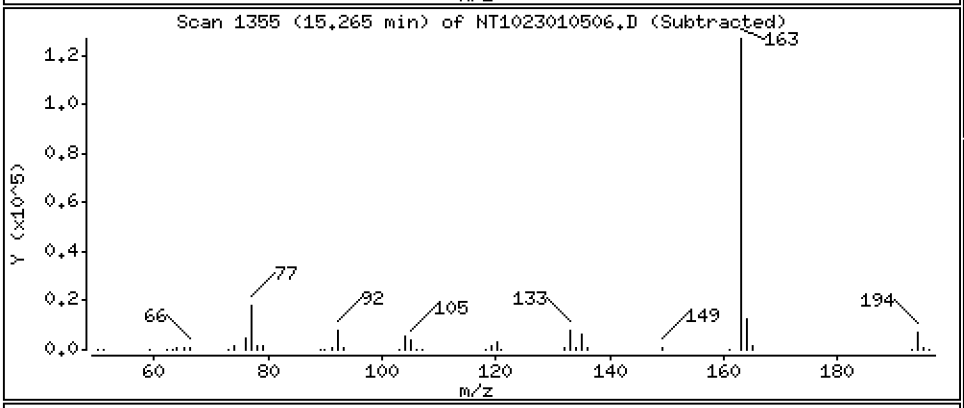
Column diameter: 0.25

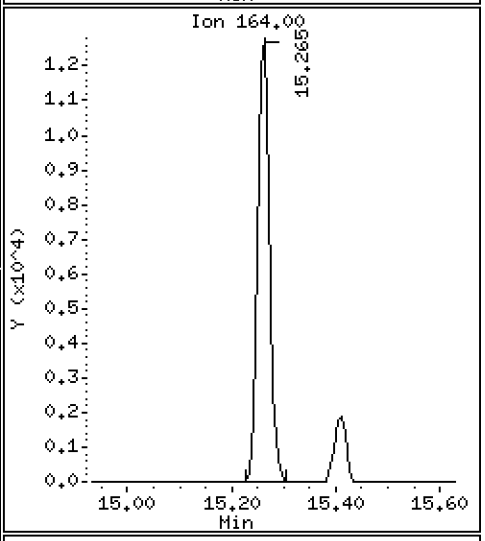
39 Dimethylphthalate

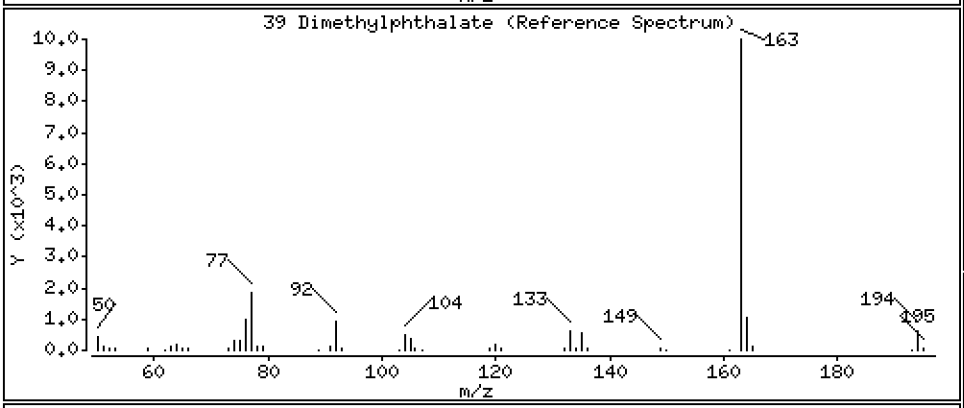
Concentration: 5.817 ug/mL

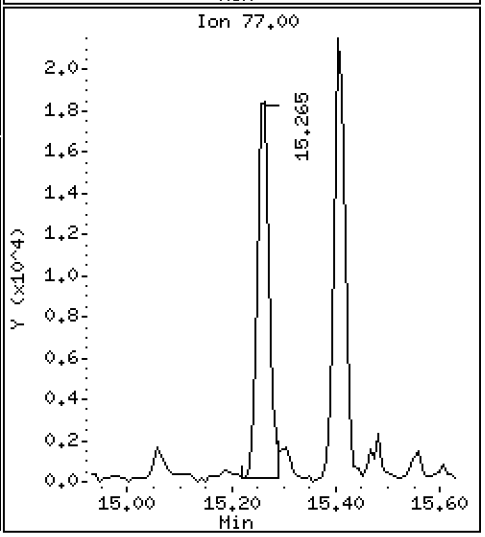


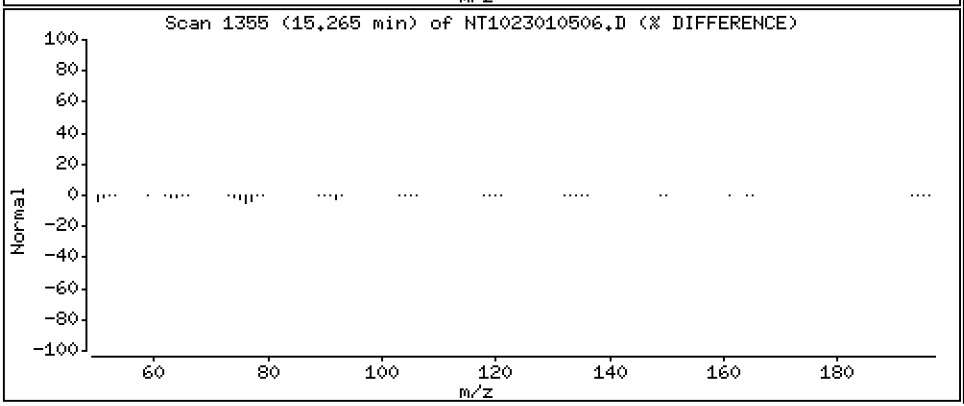












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

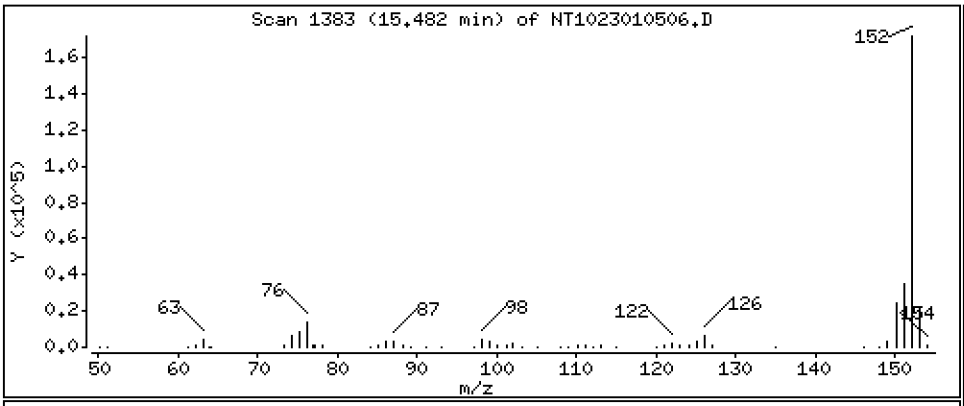
Operator: VTS

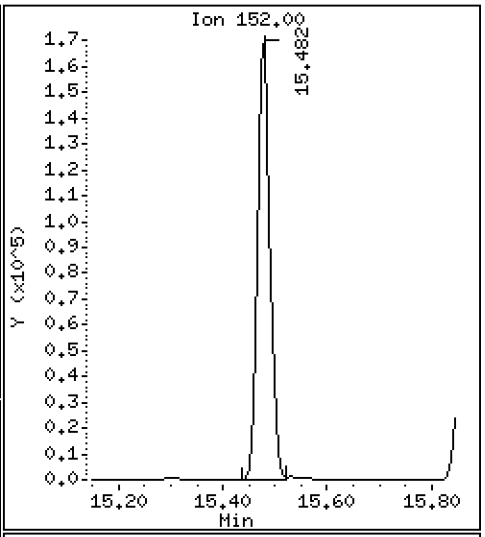
Column phase: ZB-5msi

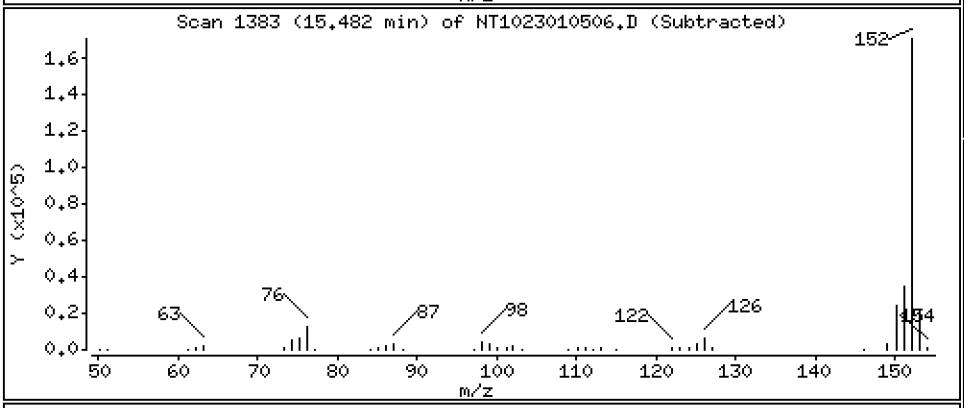
Column diameter: 0.25

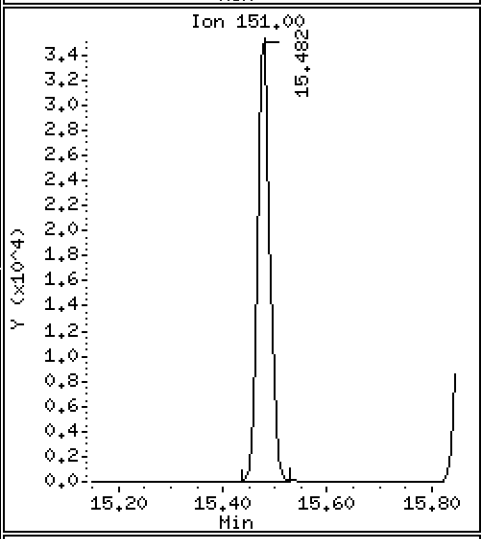
40 Acenaphthylene

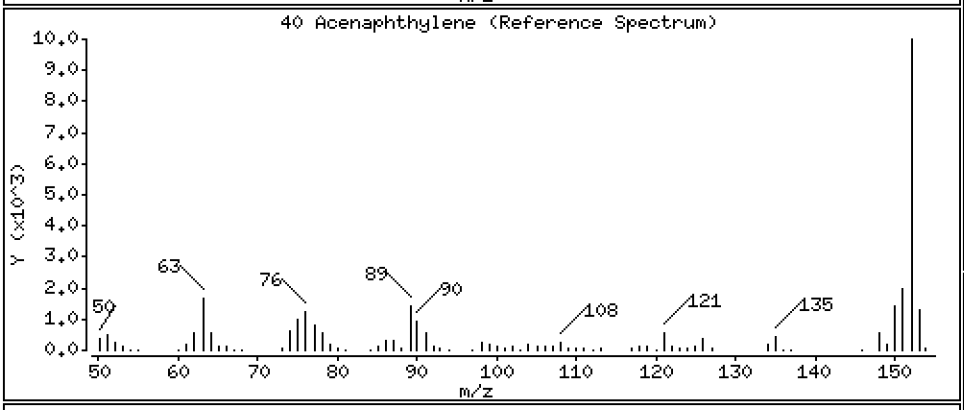
Concentration: 5.089 ug/mL

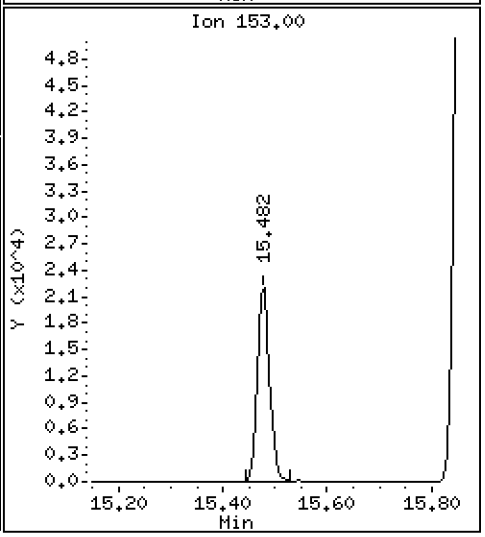


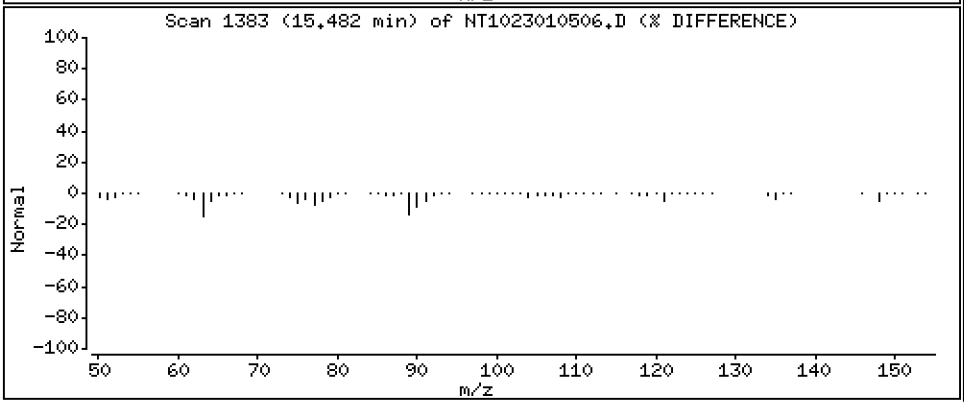












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

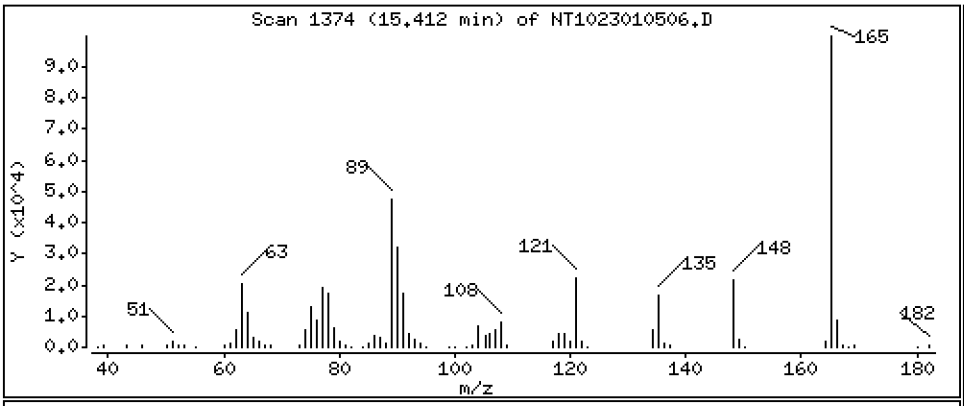
Operator: VTS

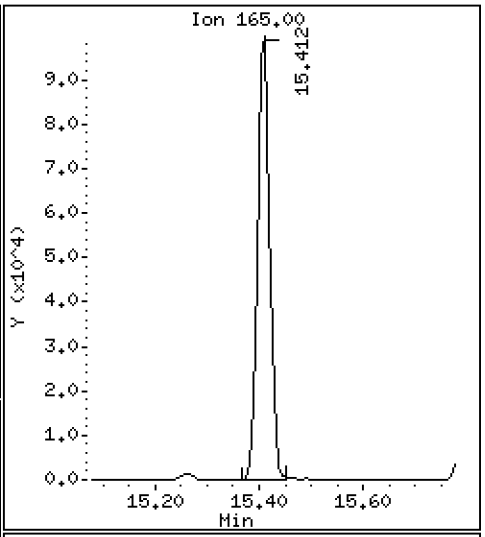
Column phase: ZB-5msi

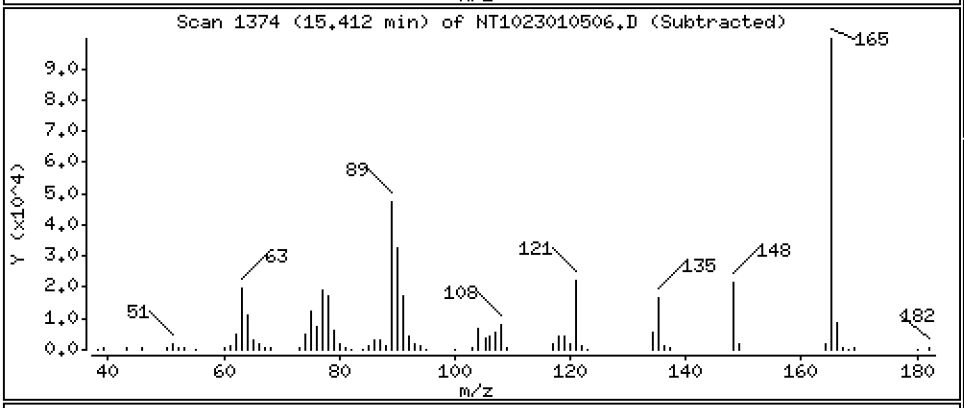
Column diameter: 0.25

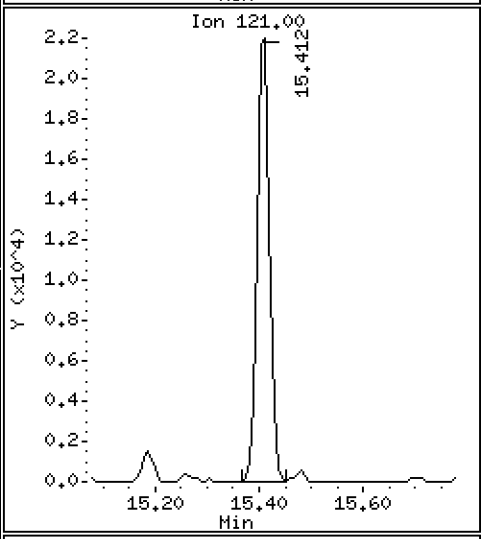
41 2,6-Dinitrotoluene

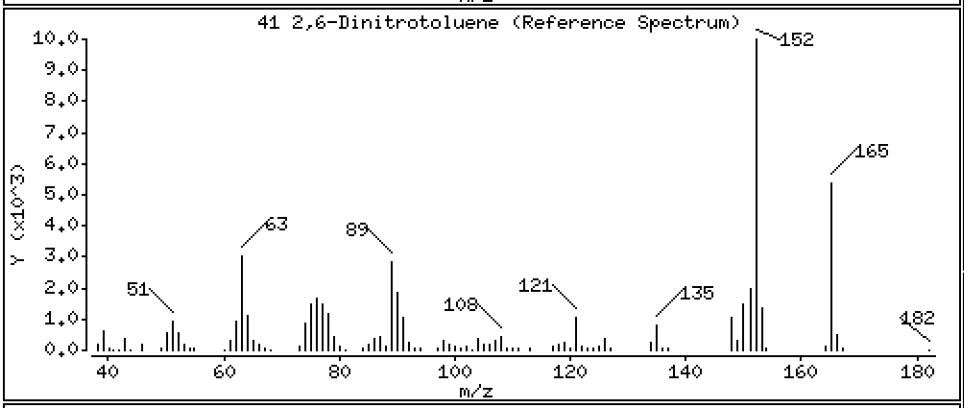
Concentration: 20.20 ug/mL

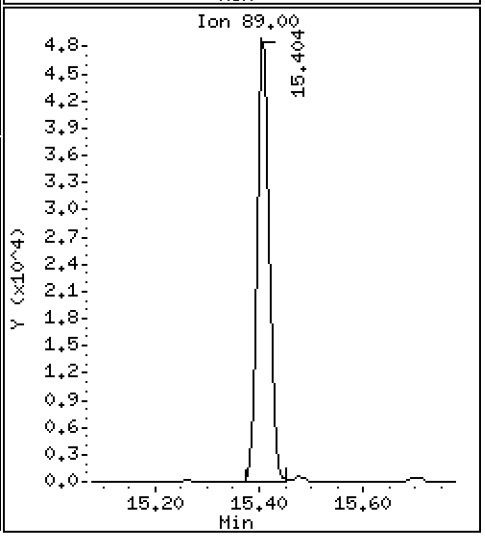


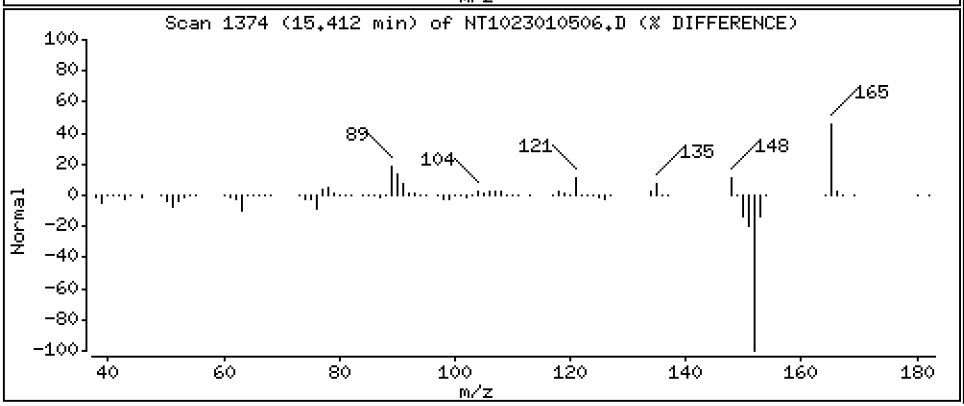












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

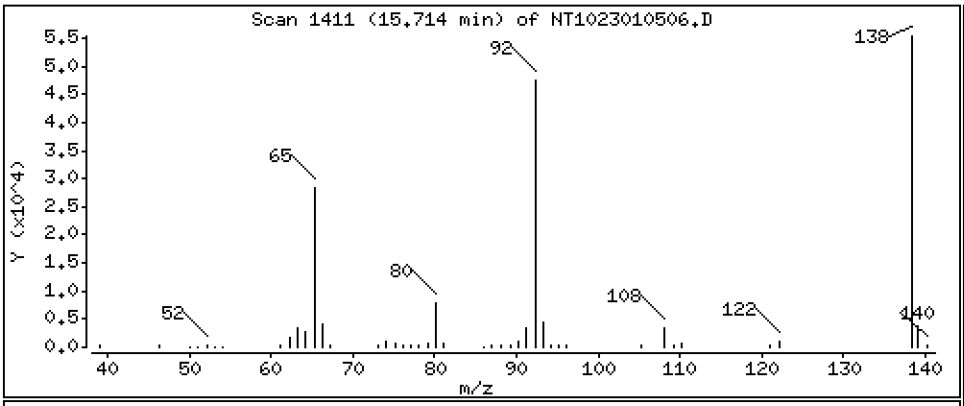
Operator: VTS

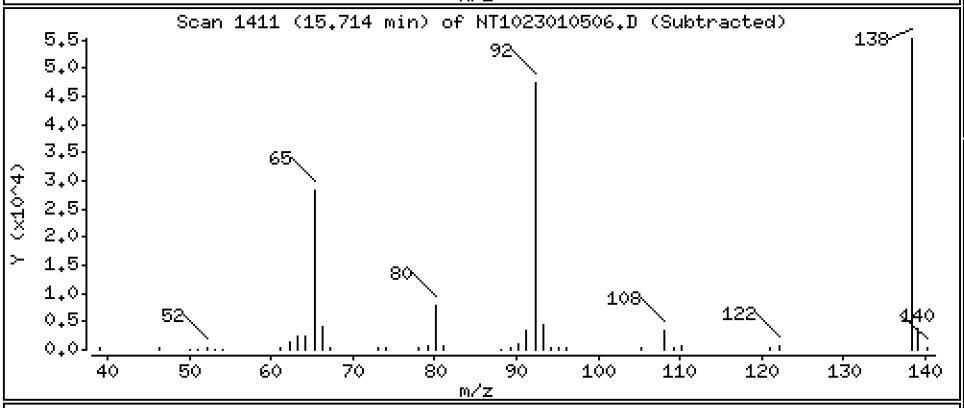
Column phase: ZB-5msi

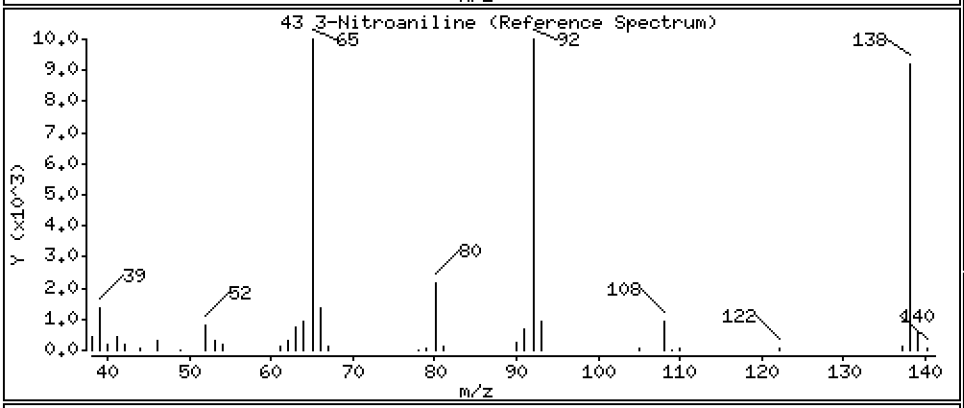
Column diameter: 0.25

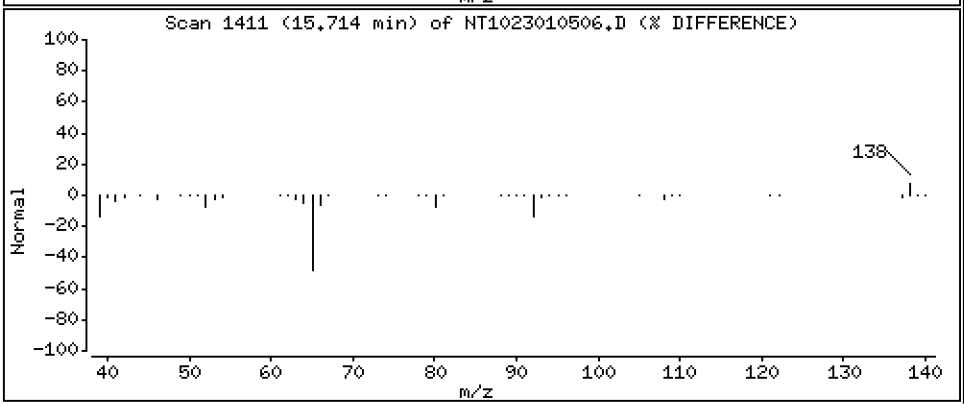
43 3-Nitroaniline

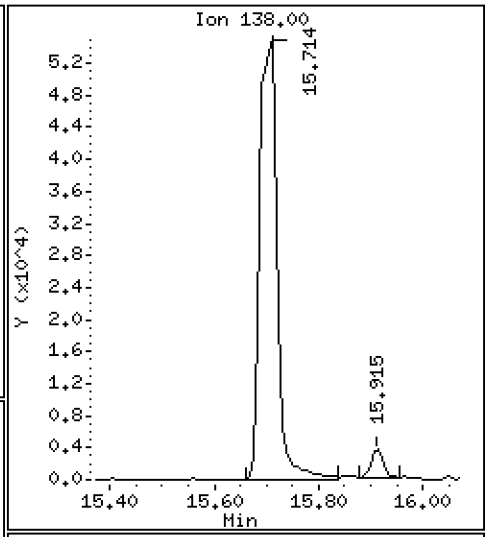
Concentration: 14.27 ug/mL

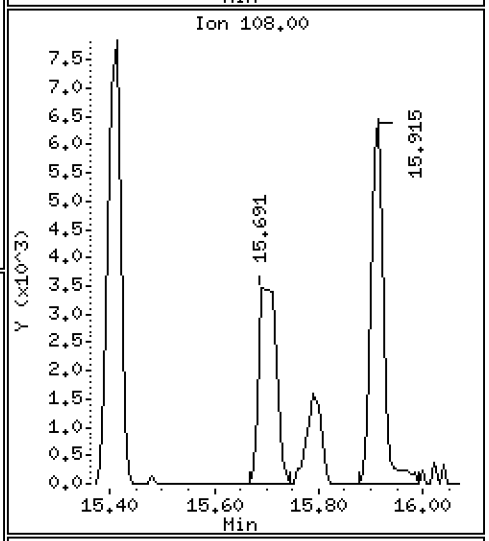


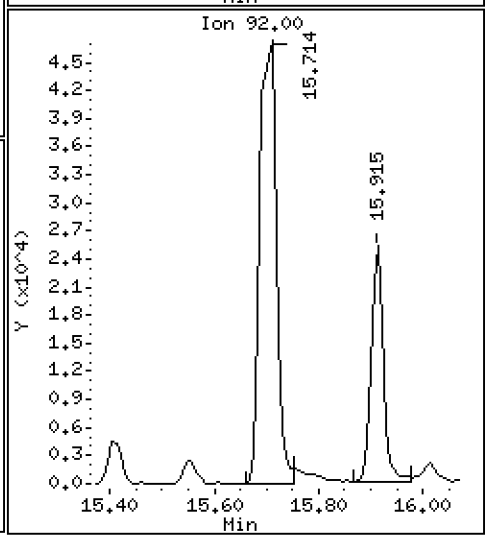












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

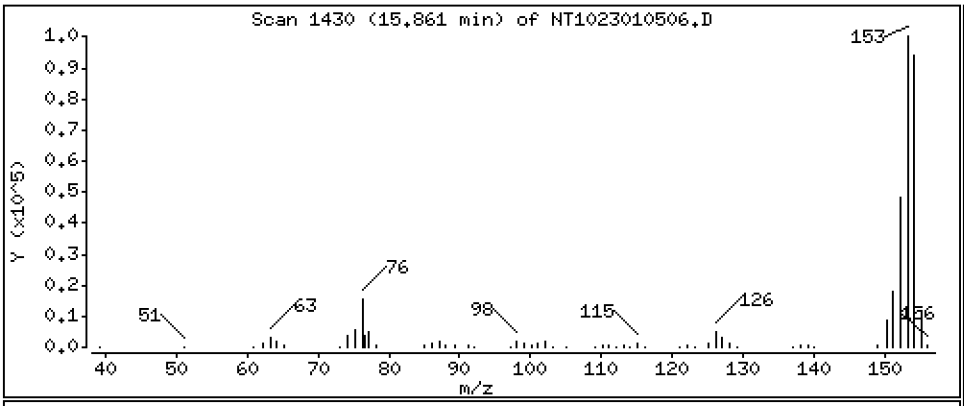
Operator: VTS

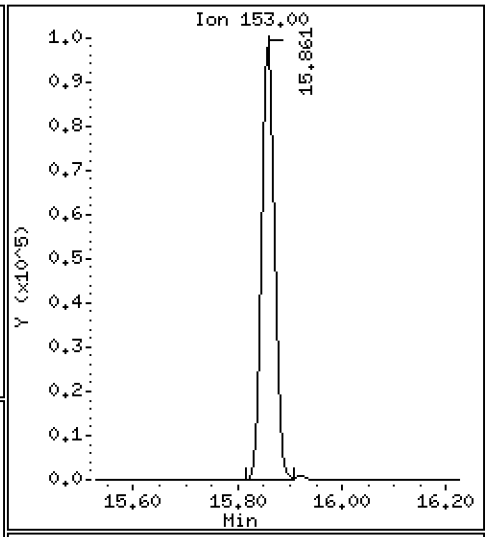
Column phase: ZB-5msi

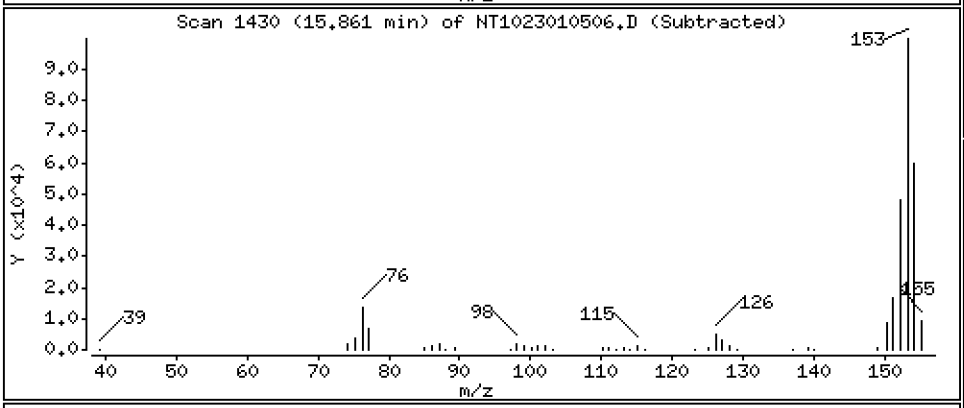
Column diameter: 0.25

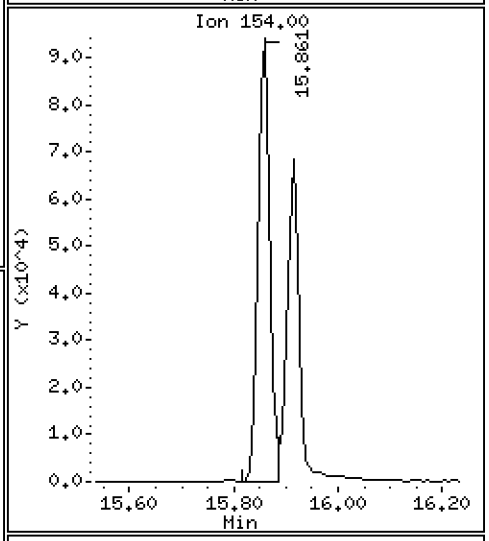
44 Acenaphthene

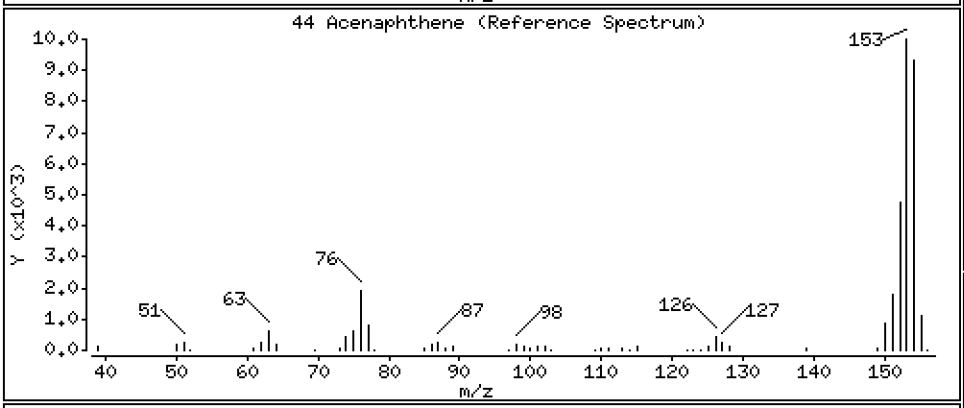
Concentration: 5.541 ug/mL

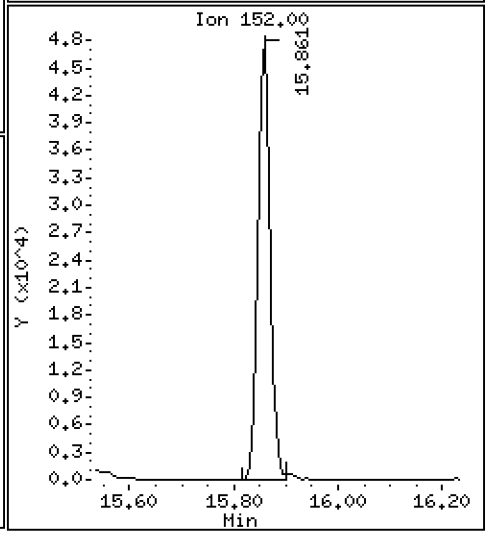


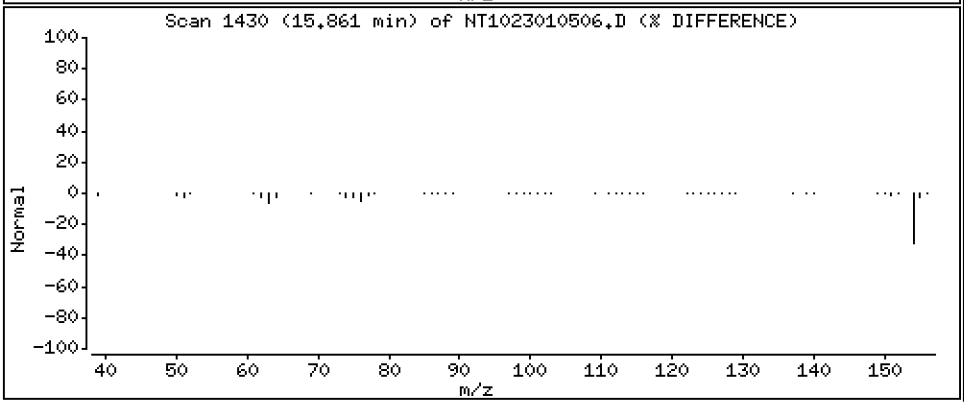












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

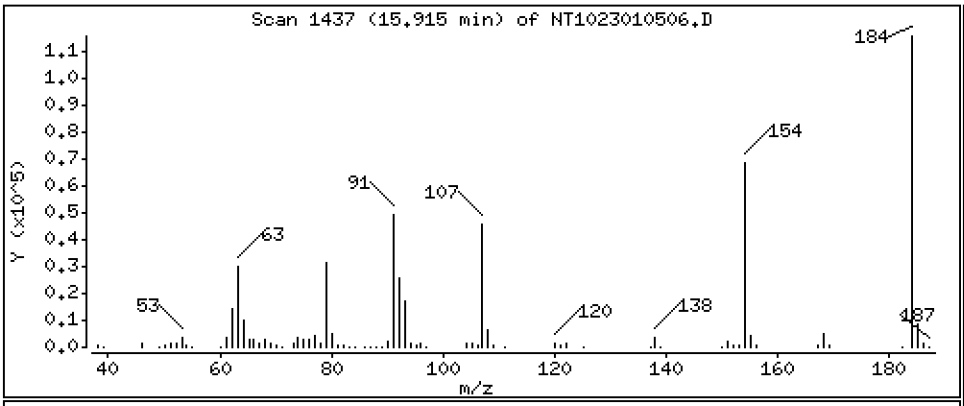
Operator: VTS

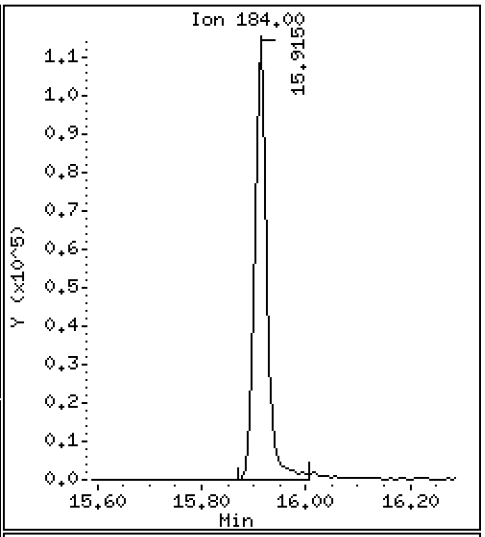
Column phase: ZB-5msi

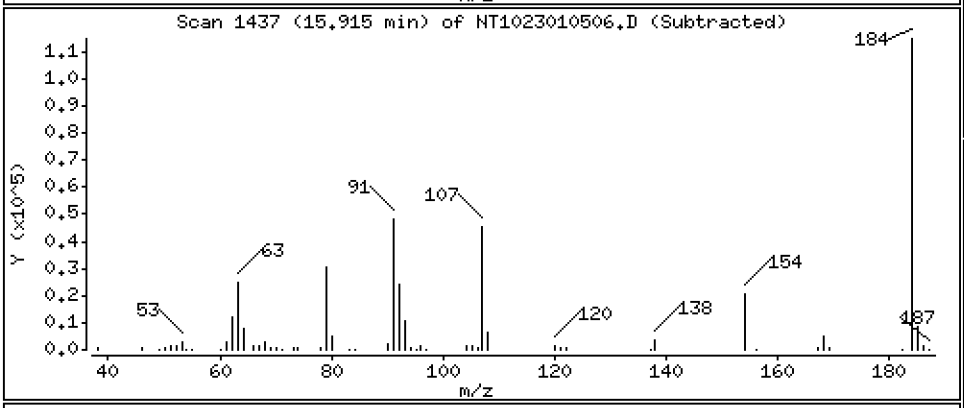
Column diameter: 0.25

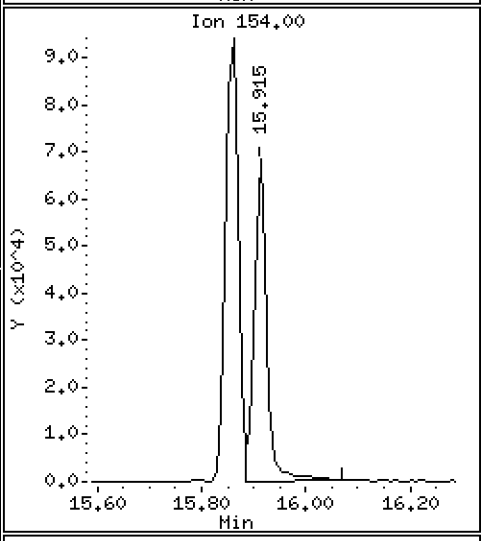
45 2,4-Dinitrophenol

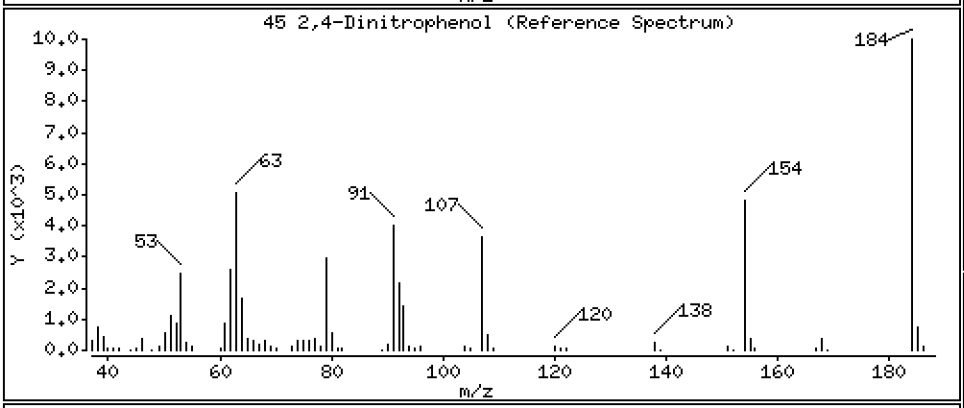
Concentration: 33.40 ug/mL

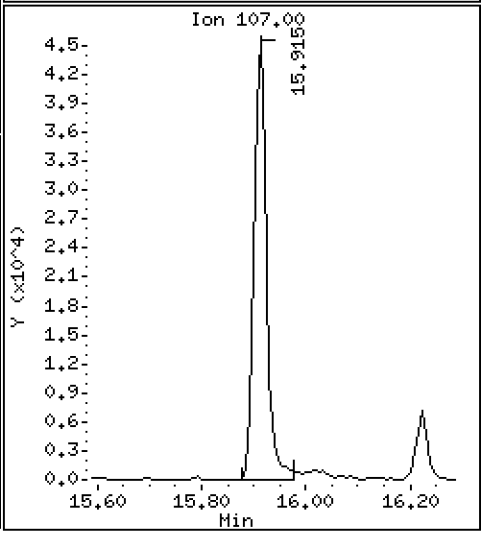


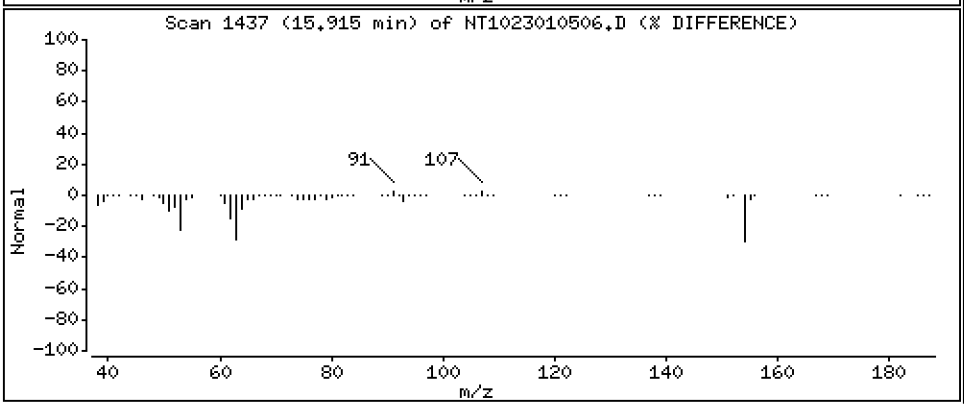












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

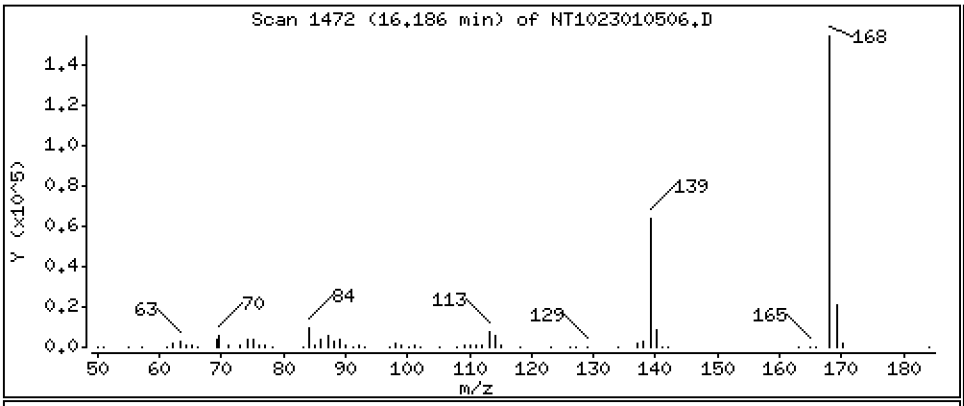
Operator: VTS

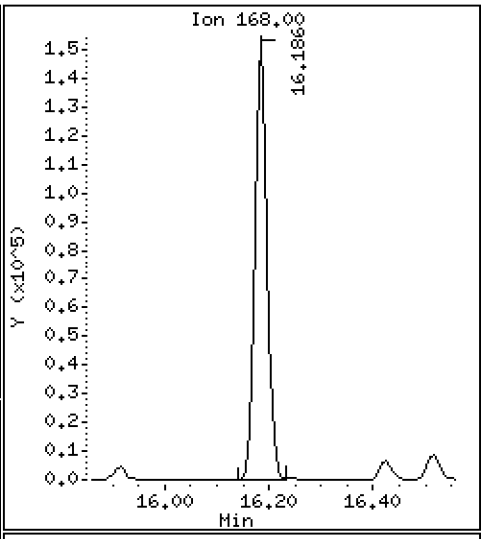
Column phase: ZB-5msi

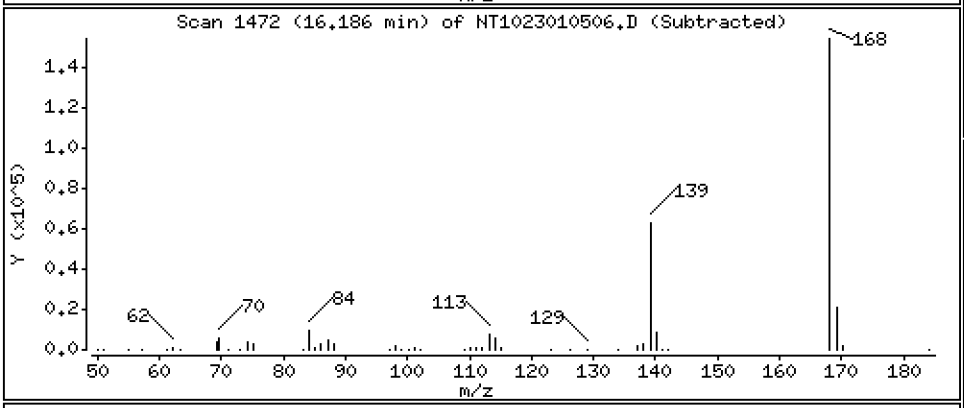
Column diameter: 0.25

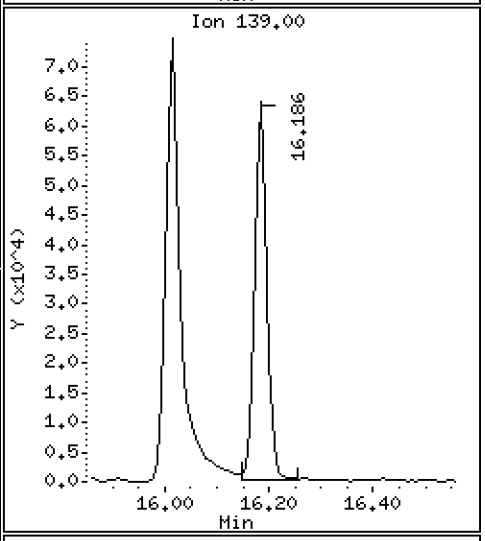
46 Dibenzofuran

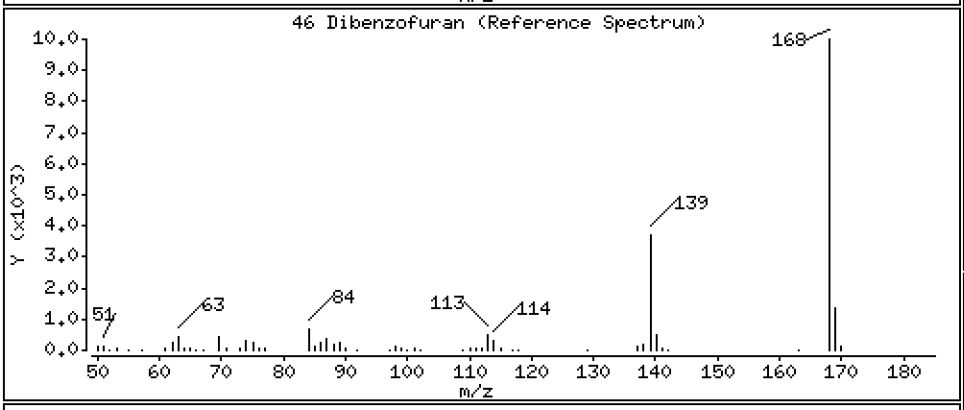
Concentration: 5.373 ug/mL

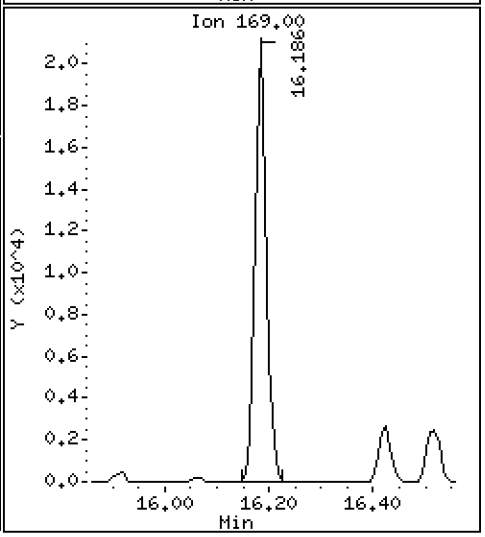


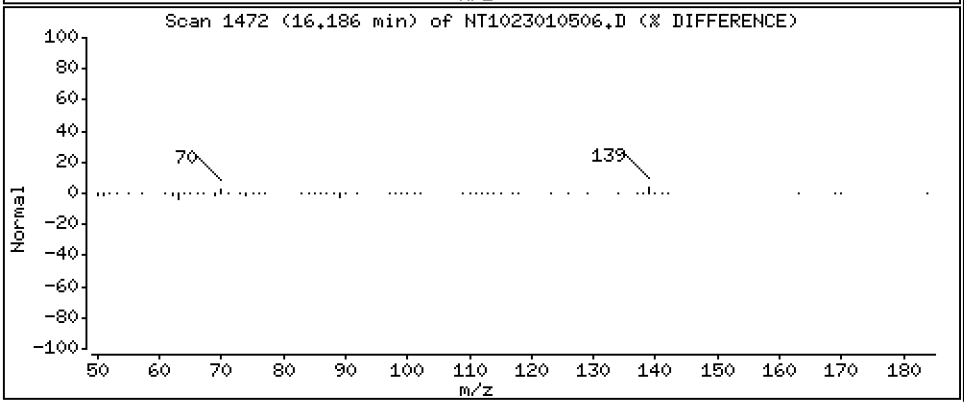












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

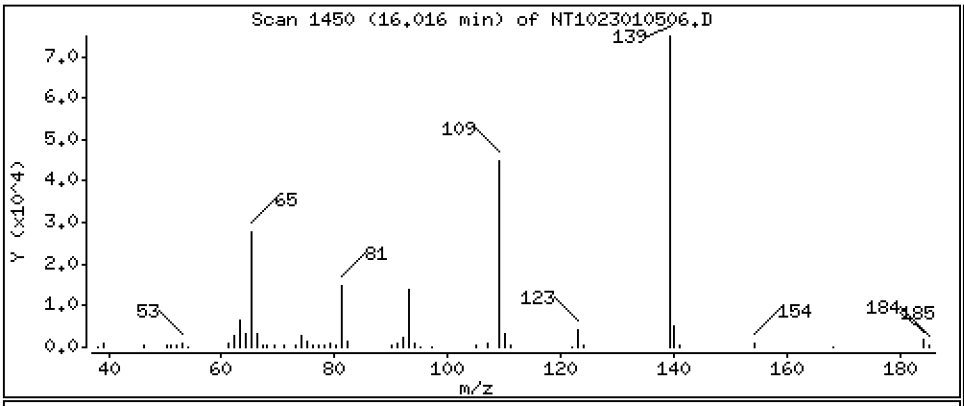
Operator: VTS

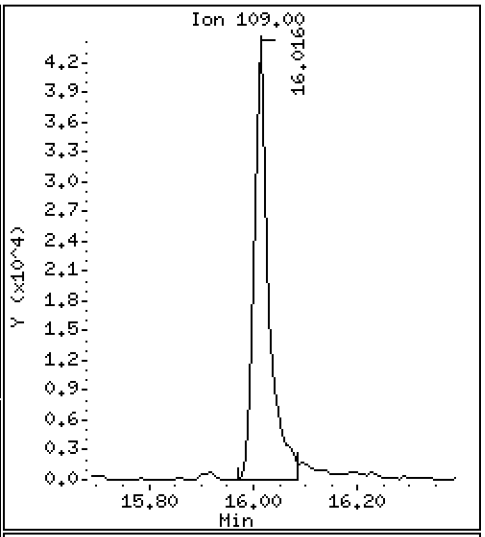
Column phase: ZB-5msi

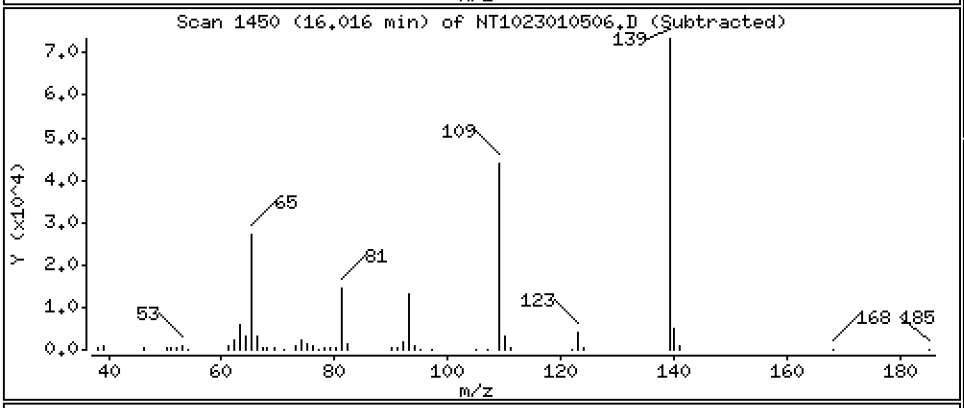
Column diameter: 0.25

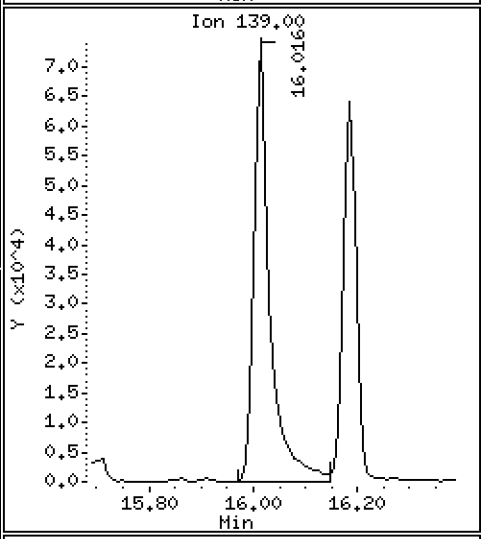
47 4-Nitrophenol

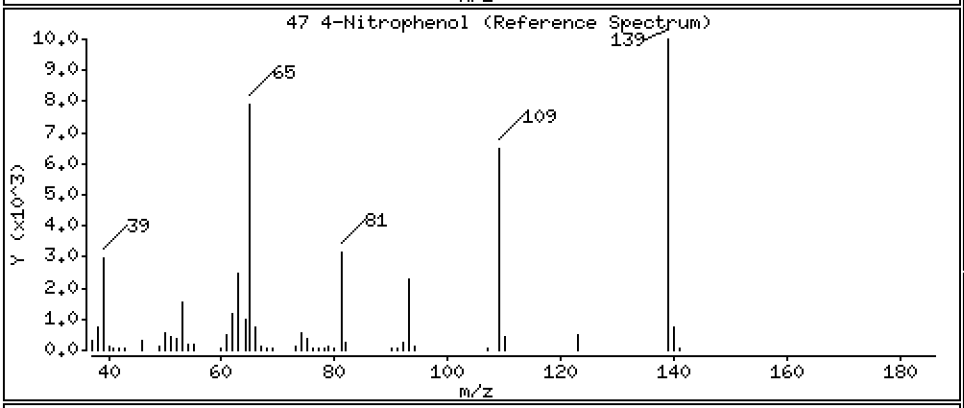
Concentration: 18.69 ug/mL

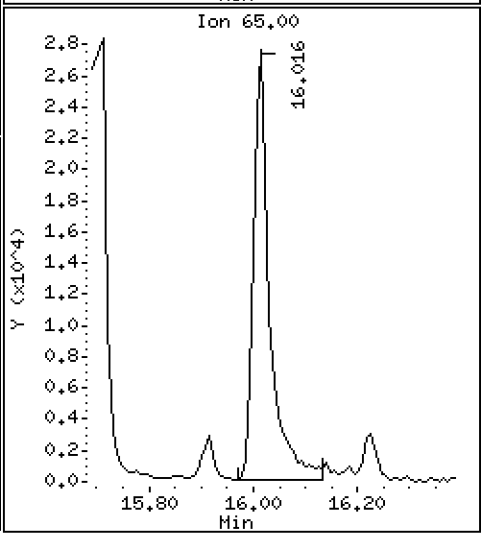


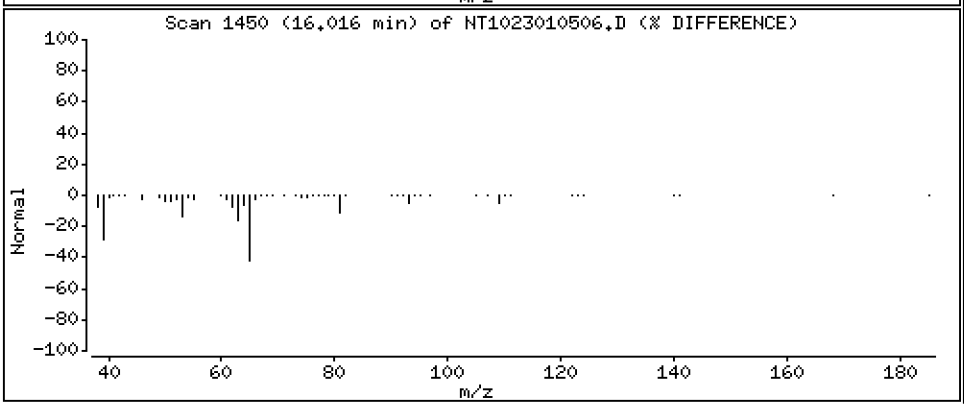












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

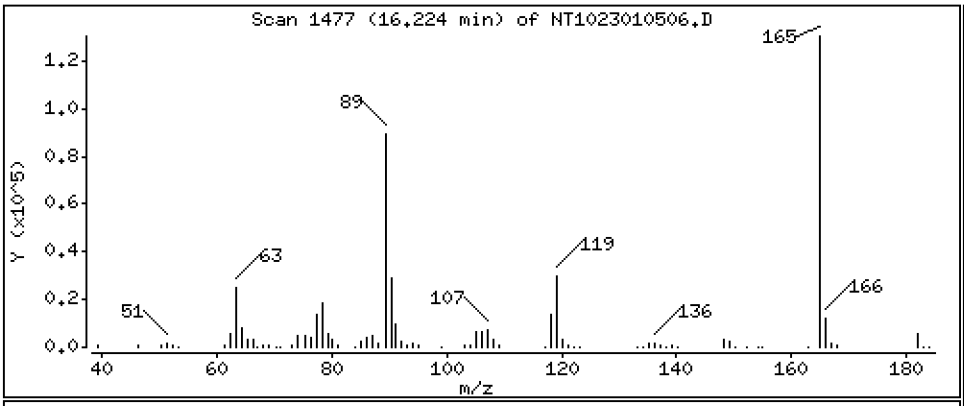
Operator: VTS

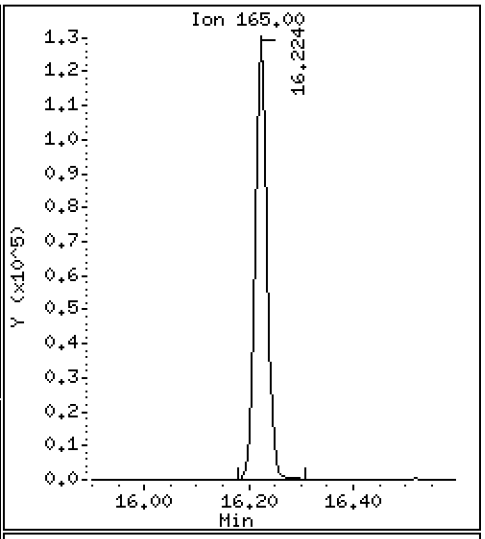
Column phase: ZB-5msi

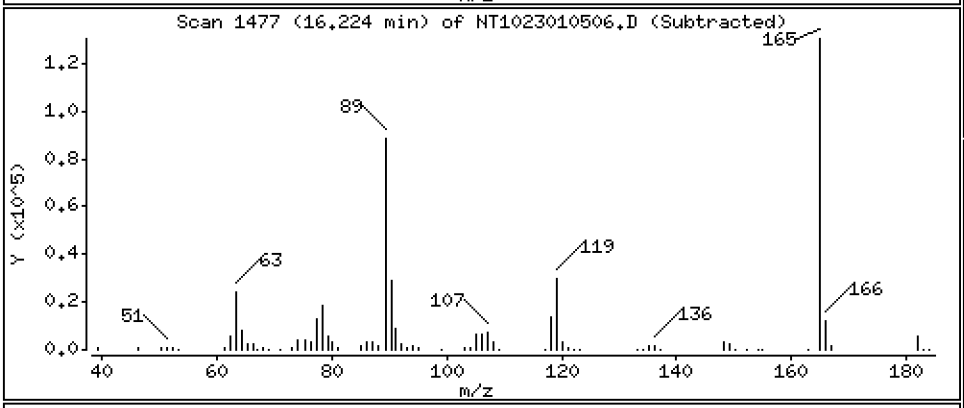
Column diameter: 0.25

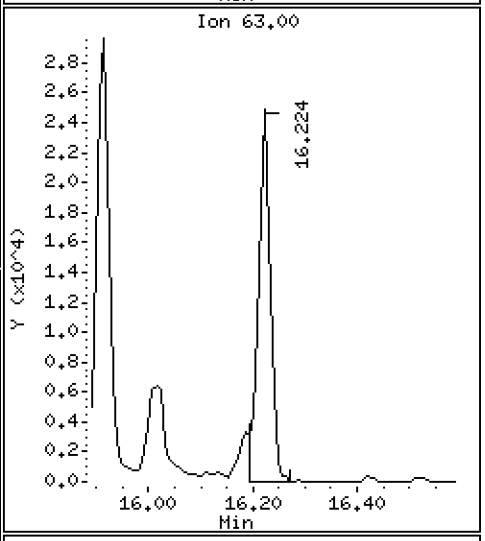
48 2,4-Dinitrotoluene

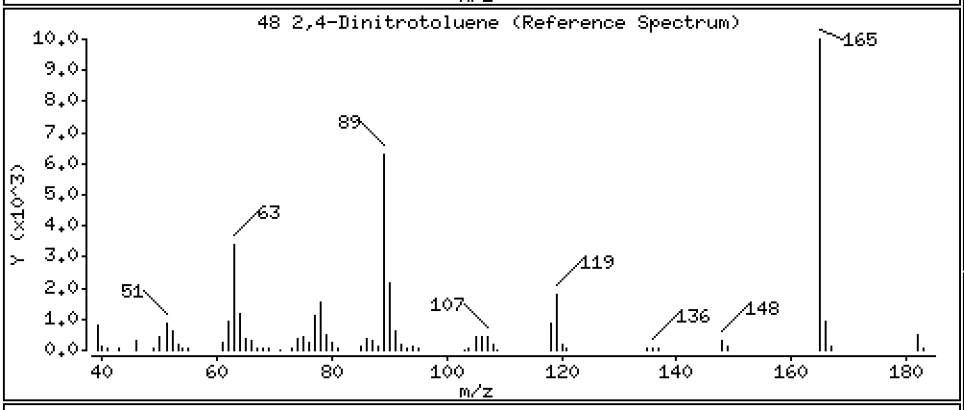
Concentration: 19.63 ug/mL

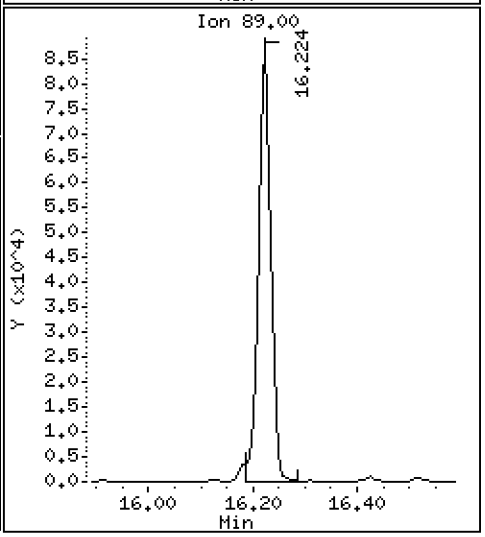


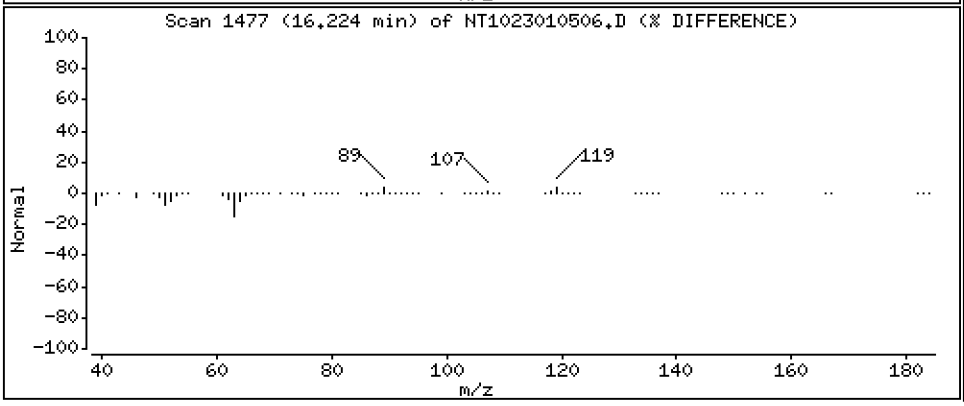












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

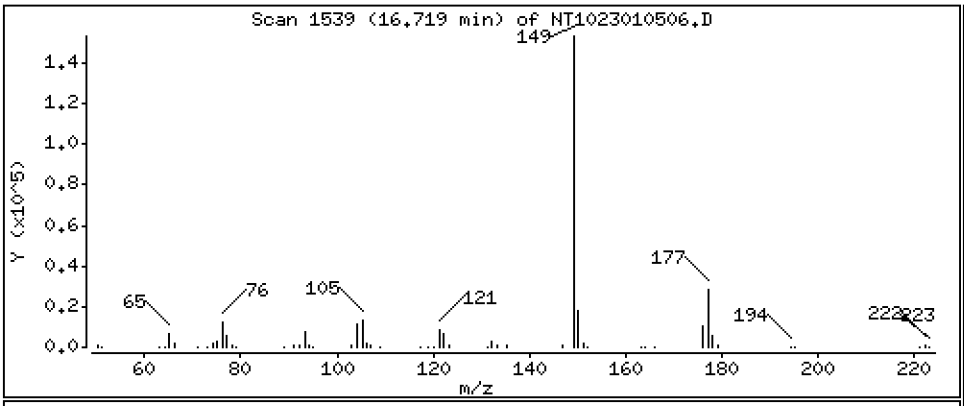
Operator: VTS

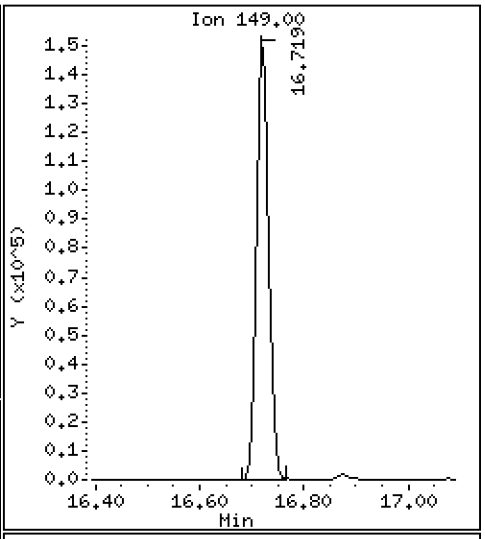
Column phase: ZB-5msi

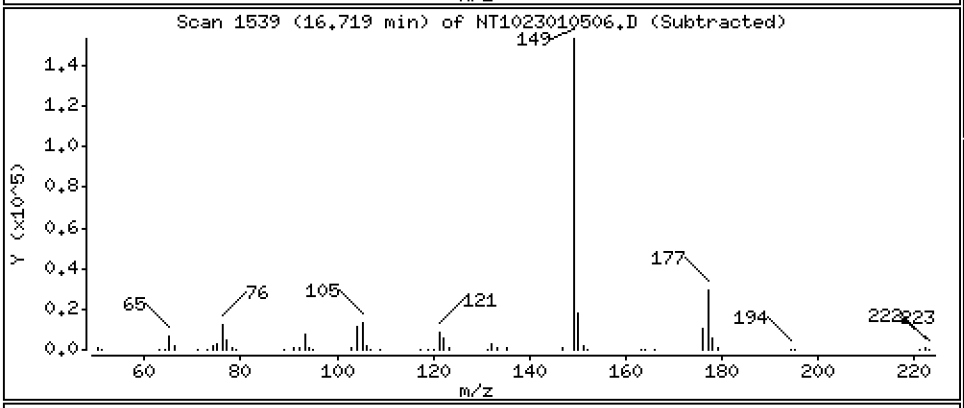
Column diameter: 0.25

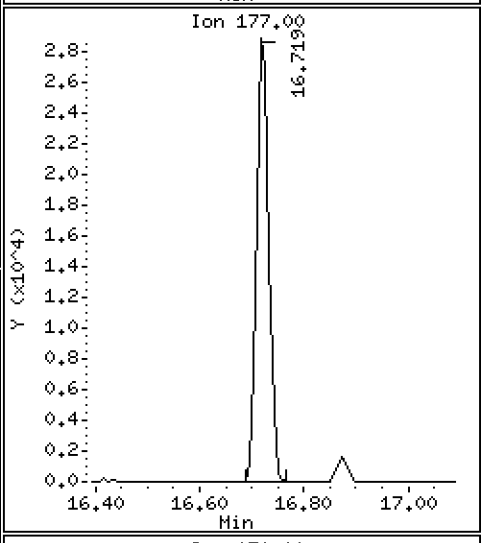
50 Diethylphthalate

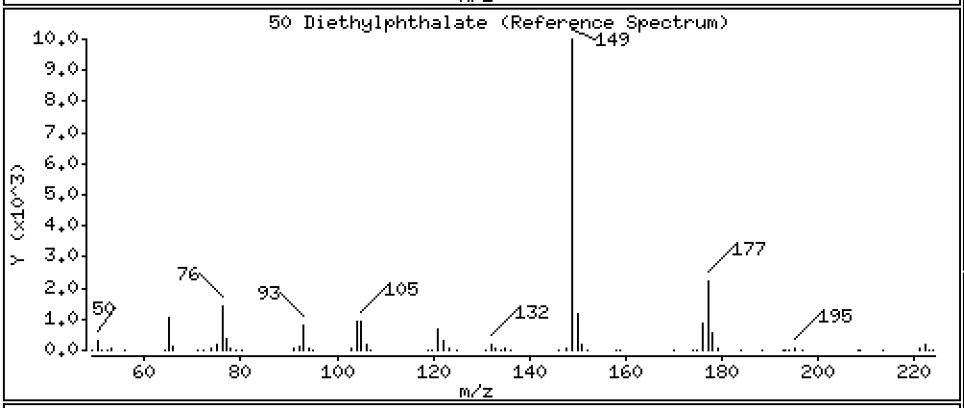
Concentration: 6.707 ug/mL

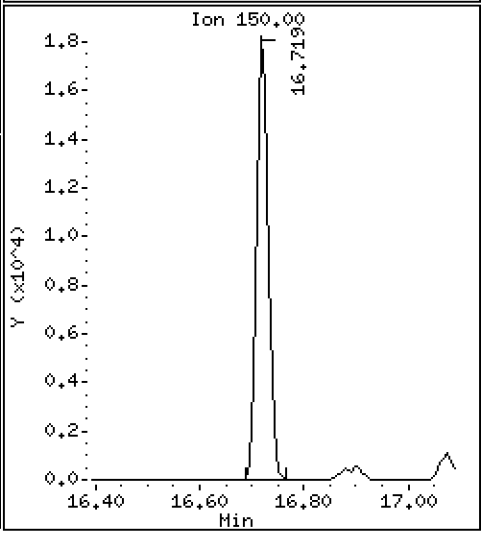


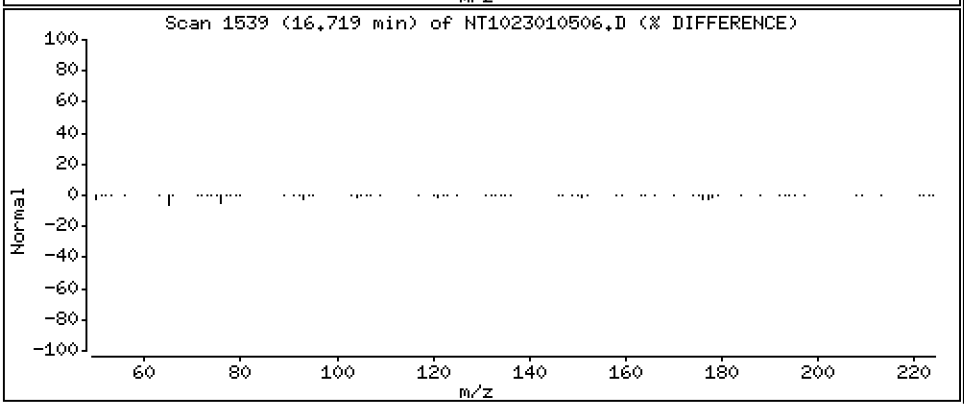












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

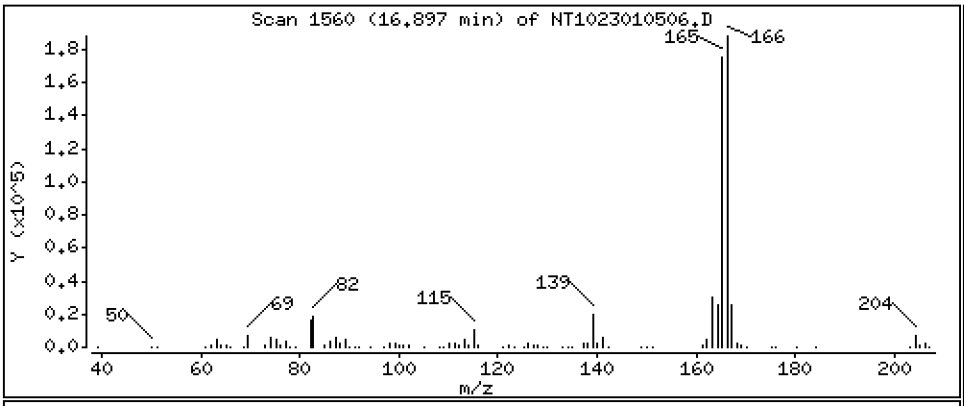
Operator: VTS

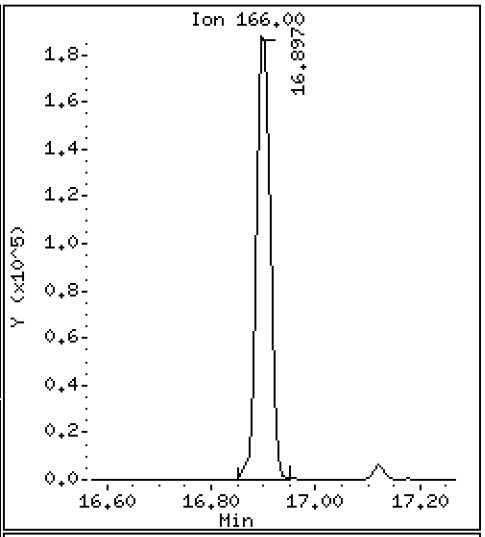
Column phase: ZB-5msi

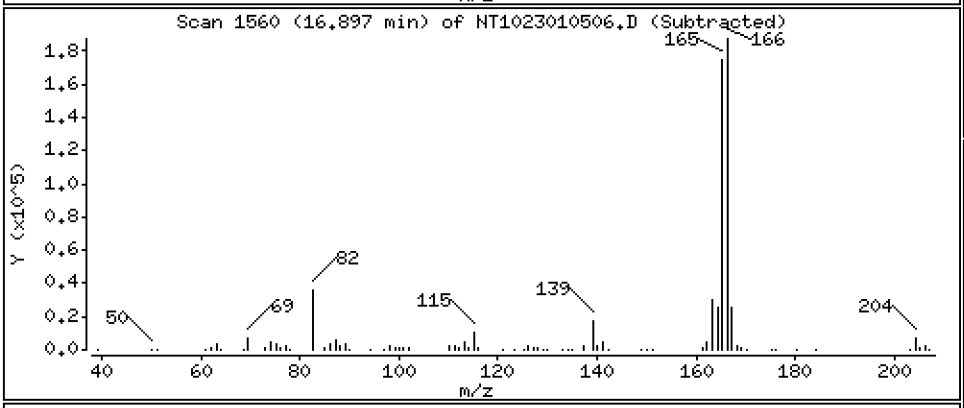
Column diameter: 0.25

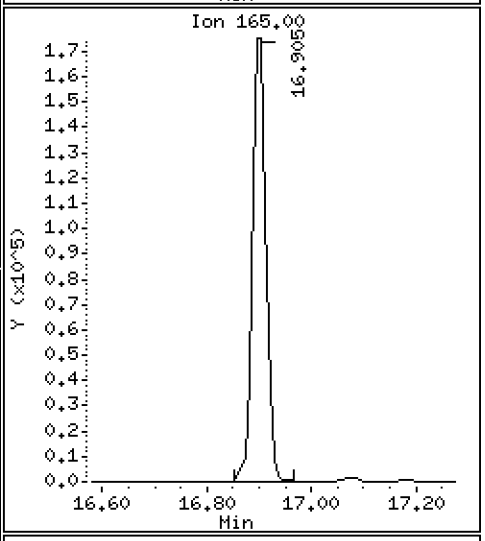
49 Fluorene

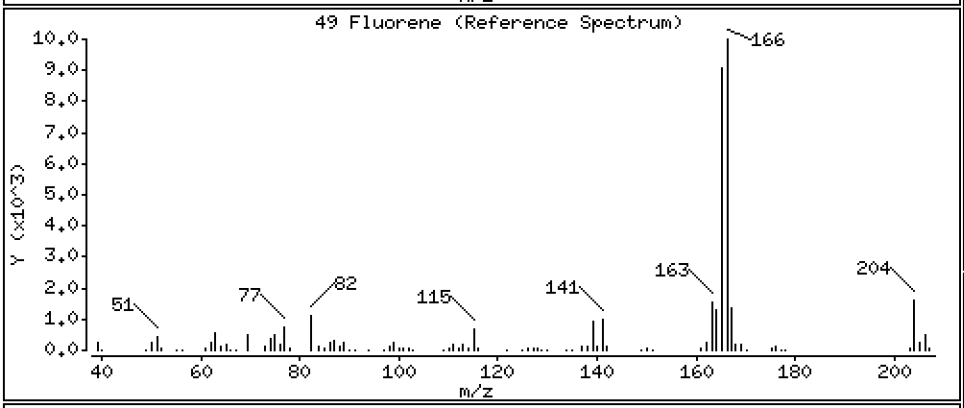
Concentration: 5.693 ug/mL

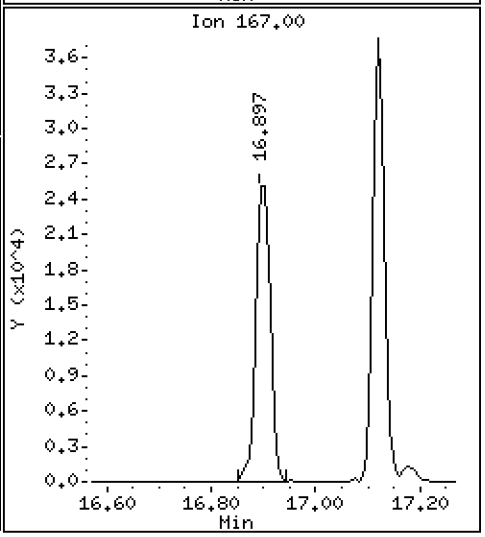


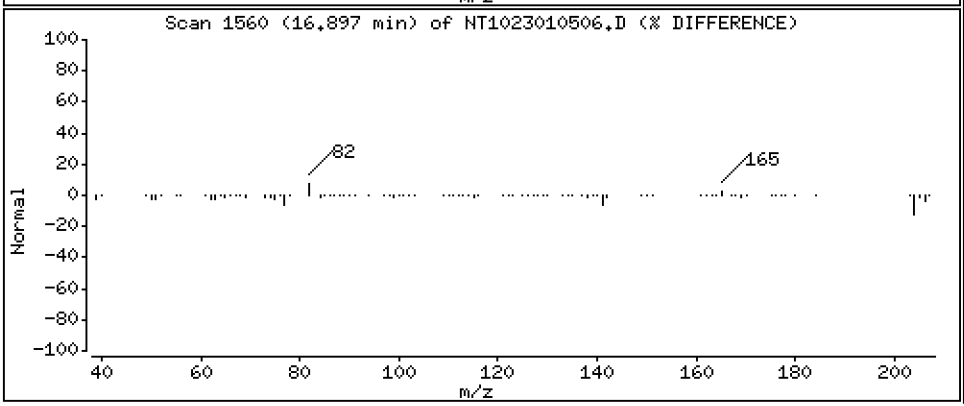












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

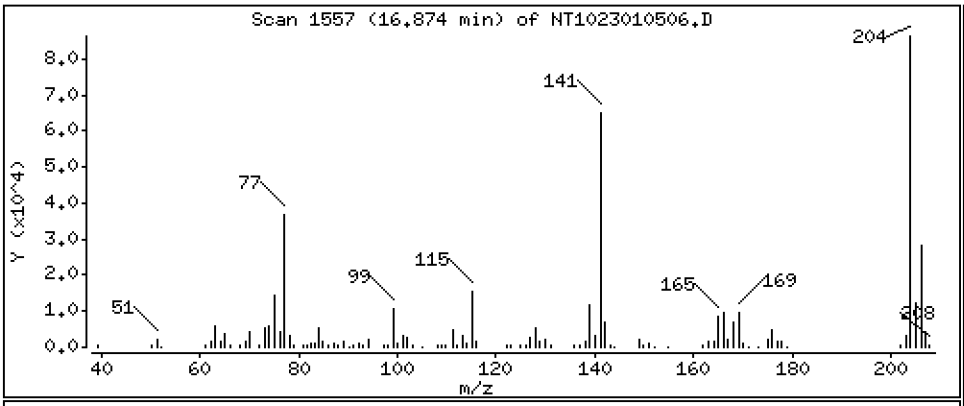
Operator: VTS

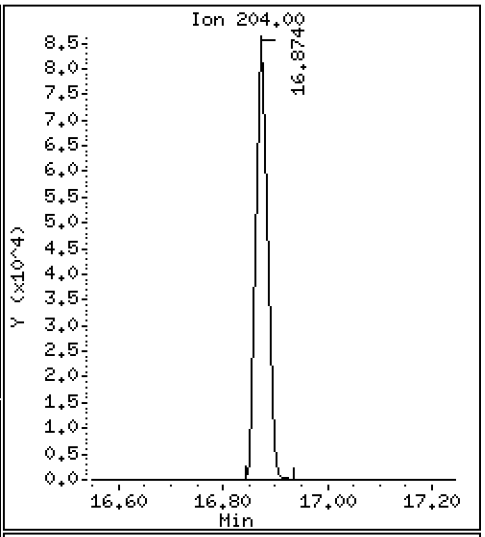
Column phase: ZB-5msi

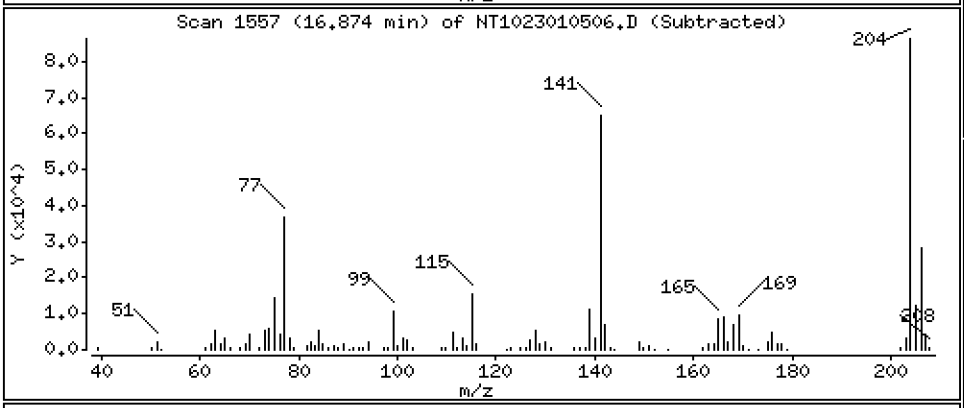
Column diameter: 0.25

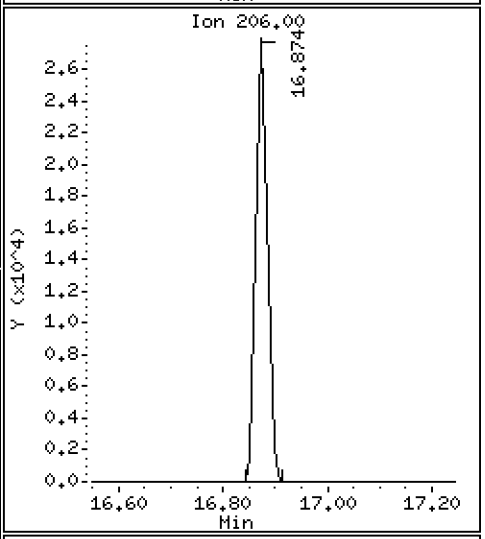
51 4-Chlorophenyl-phenylether

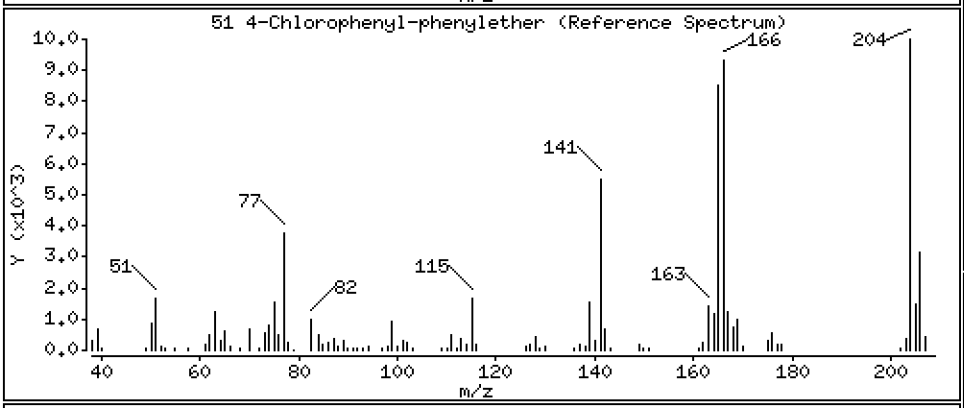
Concentration: 4.891 ug/mL

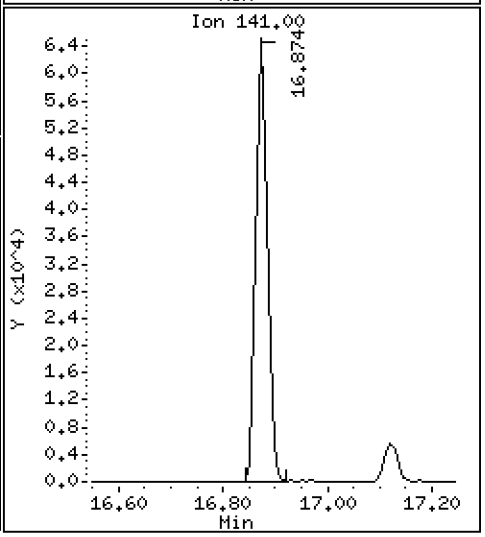


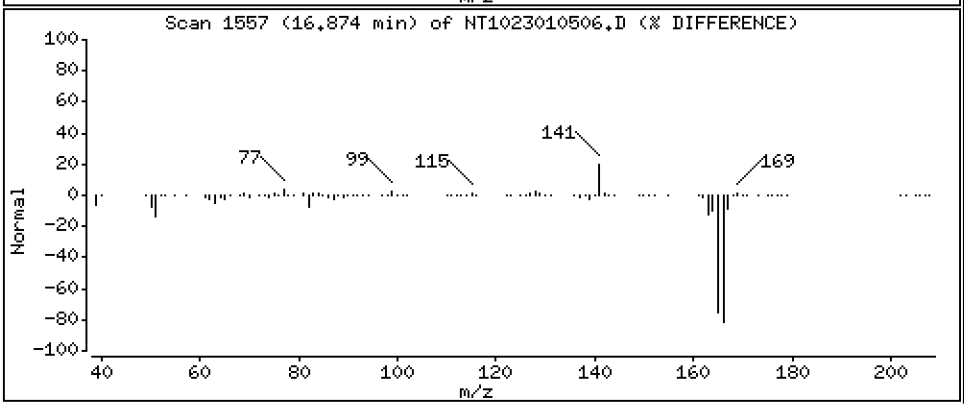












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

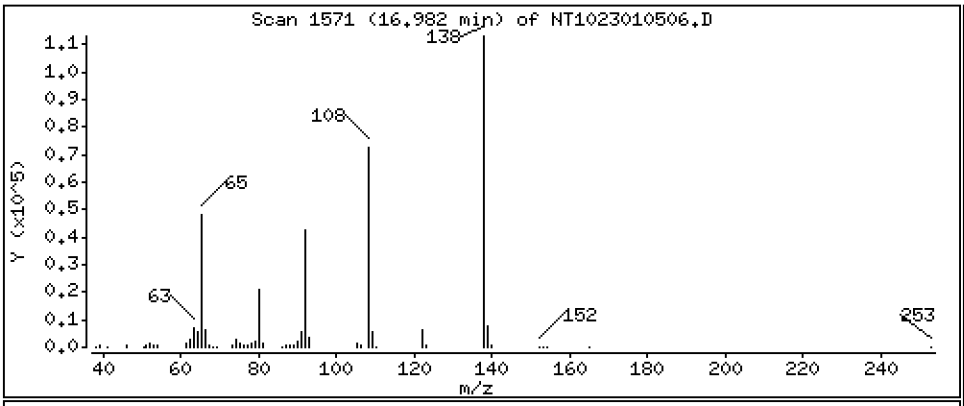
Operator: VTS

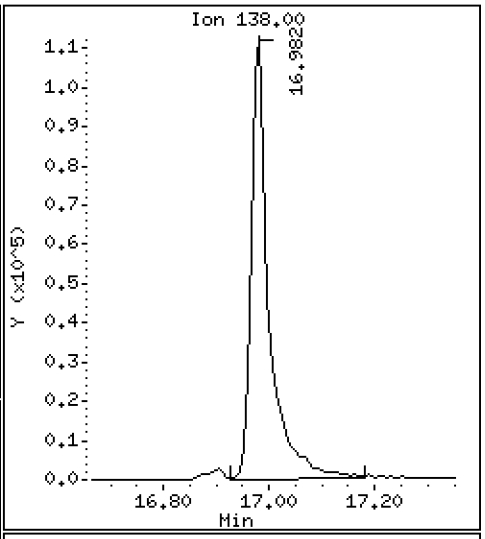
Column phase: ZB-5msi

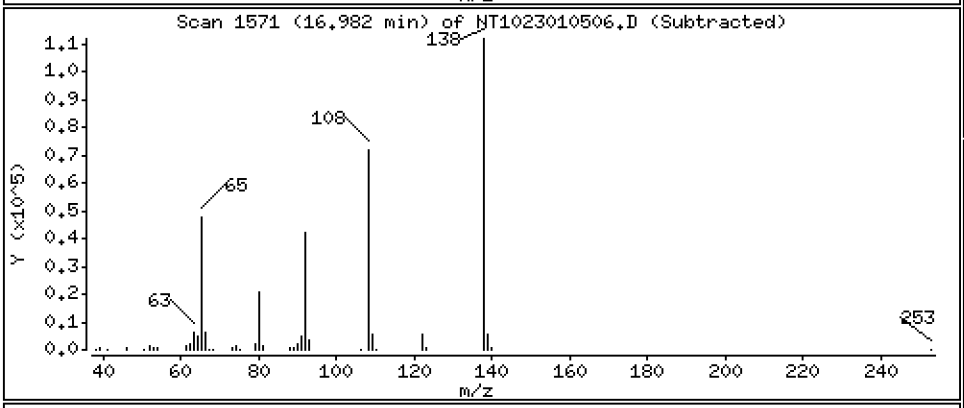
Column diameter: 0.25

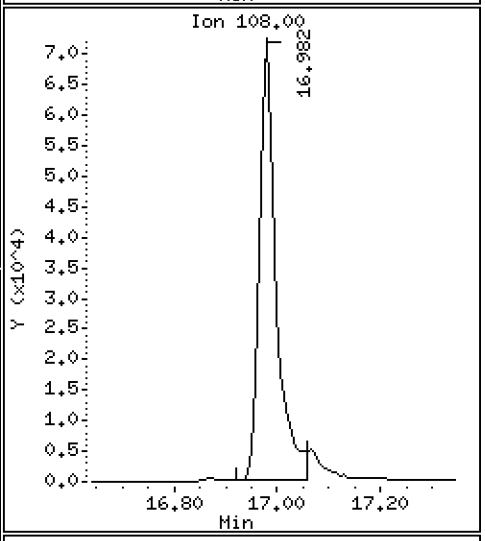
52 4-Nitroaniline

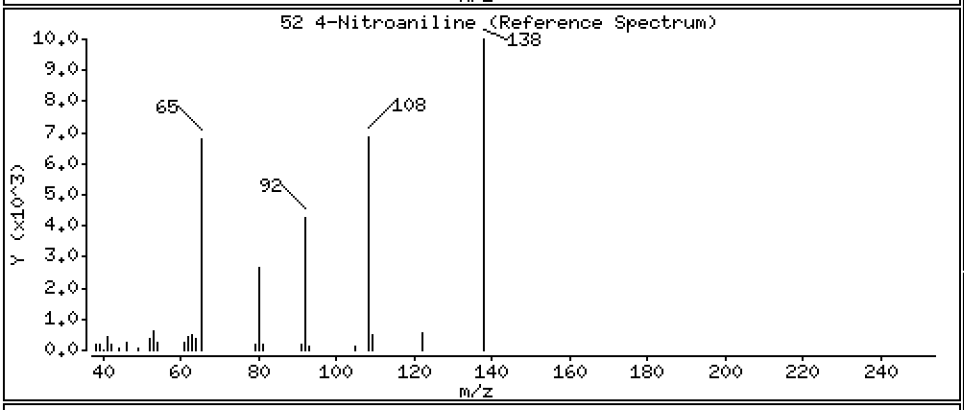
Concentration: 16.79 ug/mL

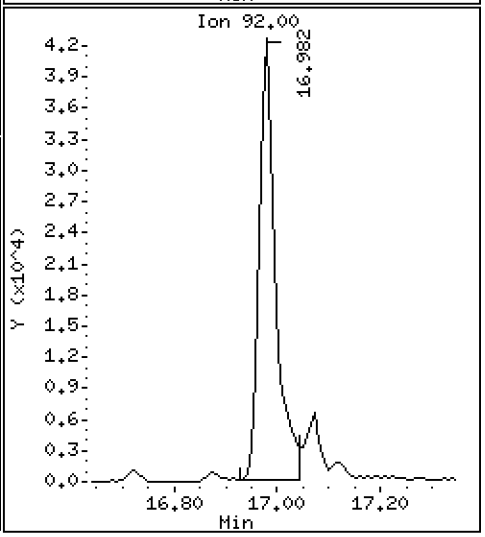


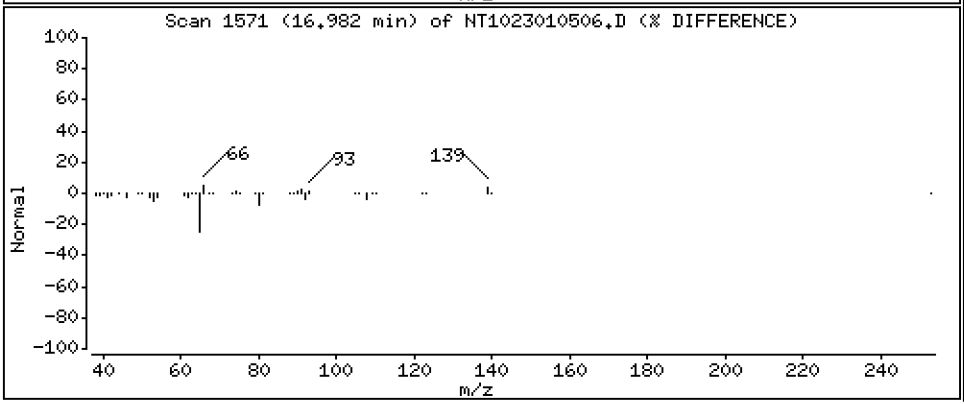












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

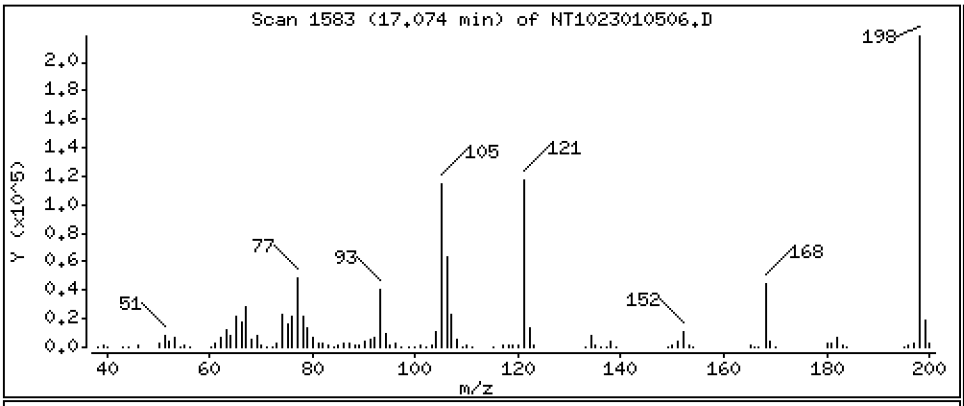
Operator: VTS

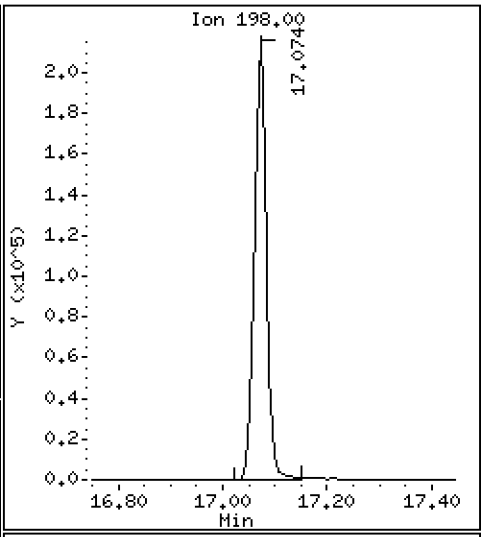
Column phase: ZB-5msi

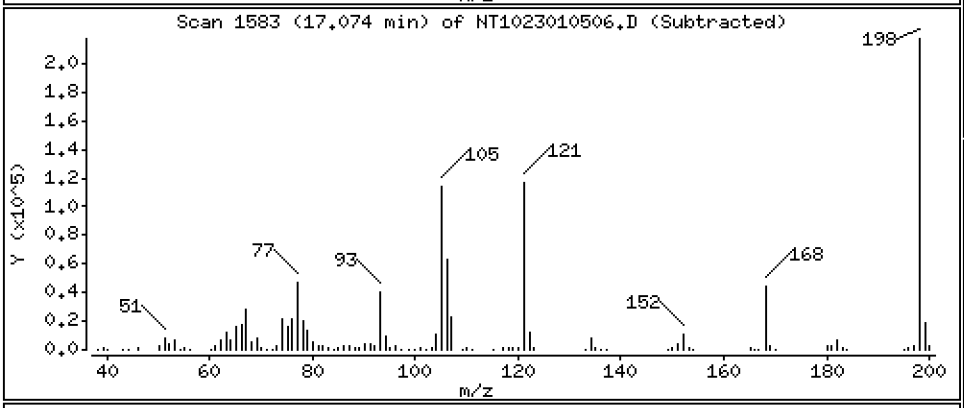
Column diameter: 0.25

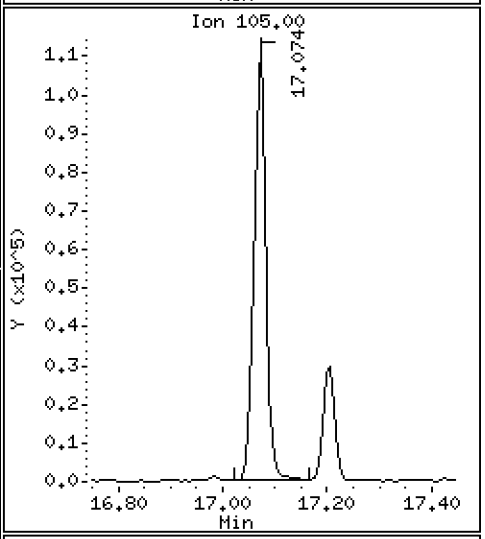
53 4,6-Dinitro-2-methylphenol

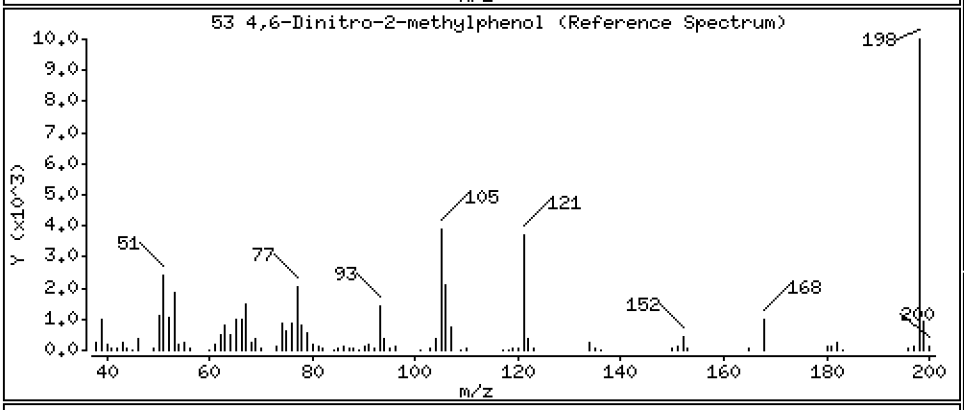
Concentration: 37.76 ug/mL

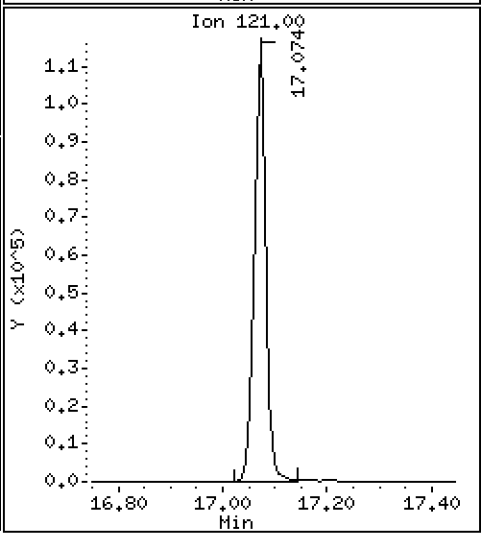


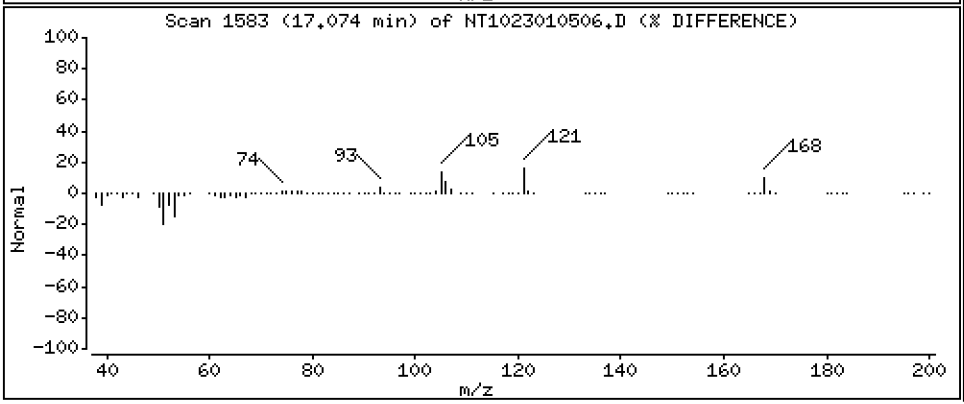












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

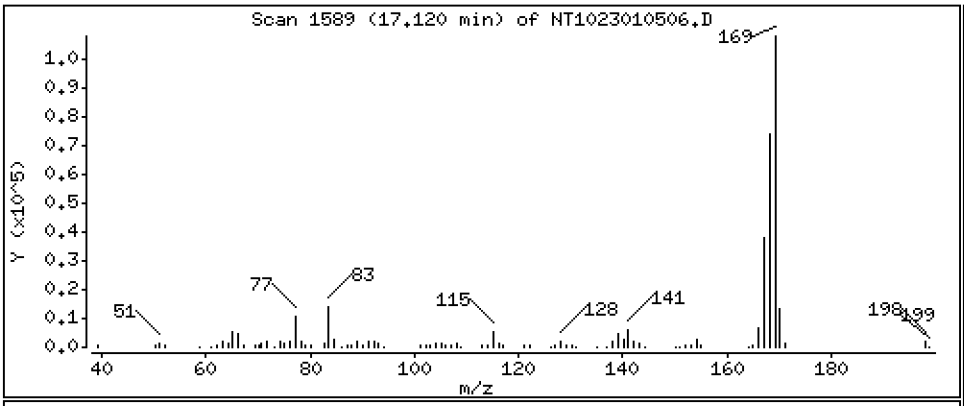
Operator: VTS

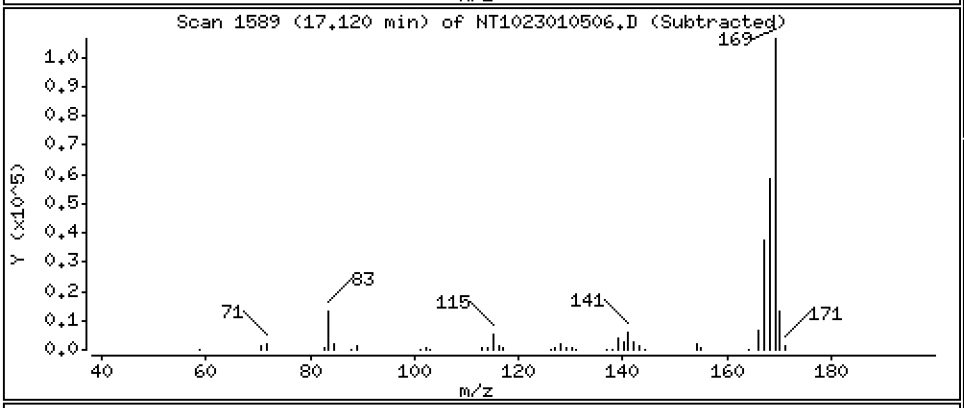
Column phase: ZB-5msi

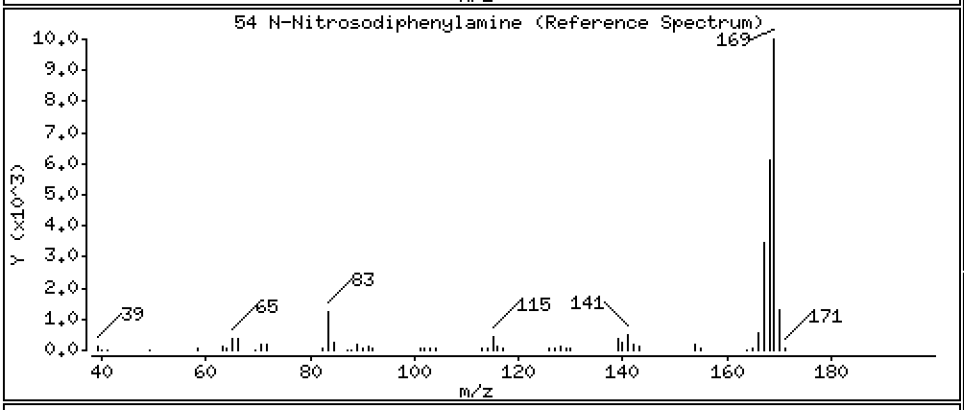
Column diameter: 0.25

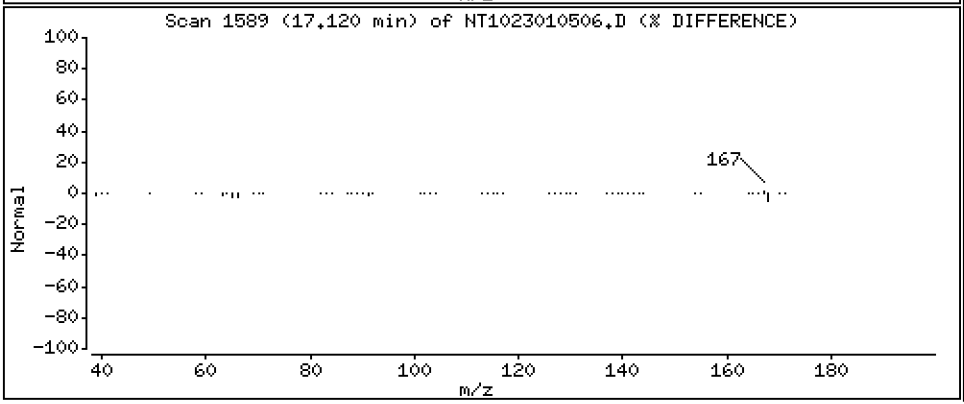
54 N-Nitrosodiphenylamine

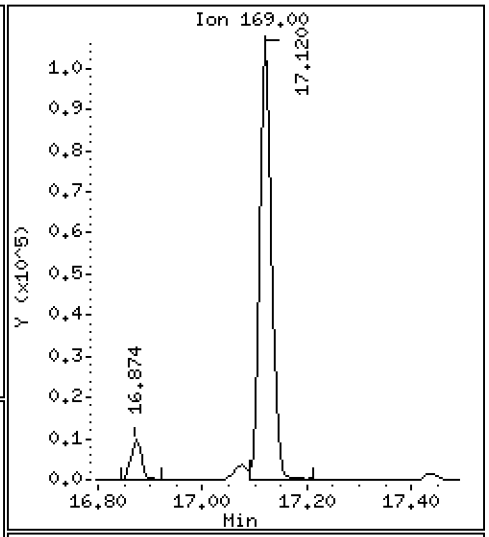
Concentration: 4.521 ug/mL

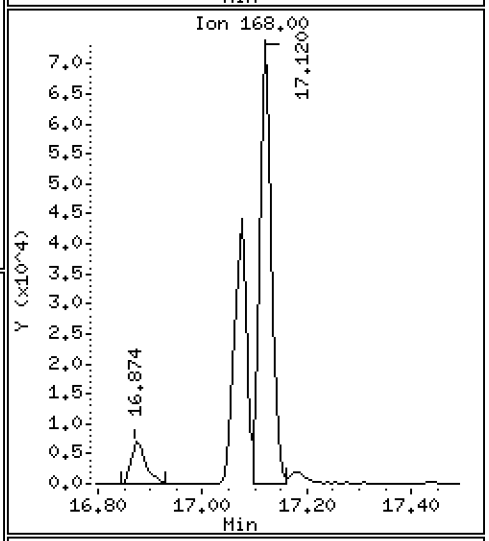


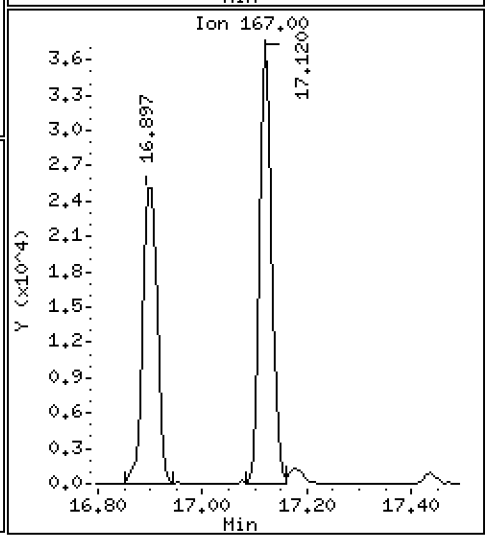












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

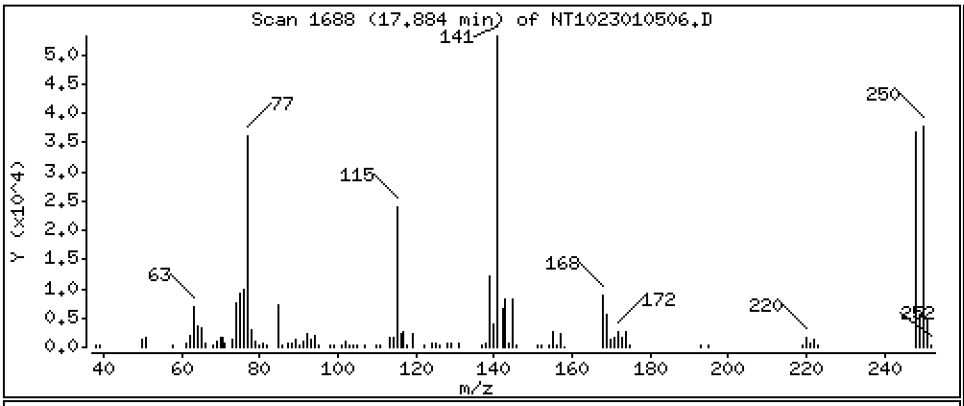
Operator: VTS

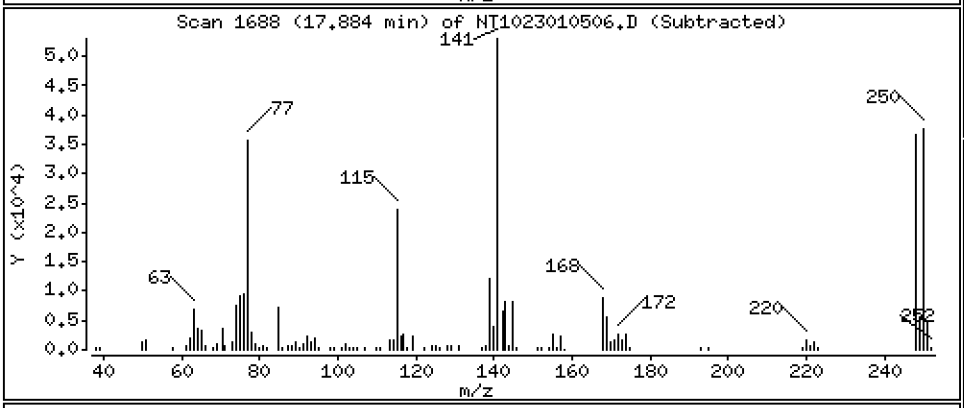
Column phase: ZB-5msi

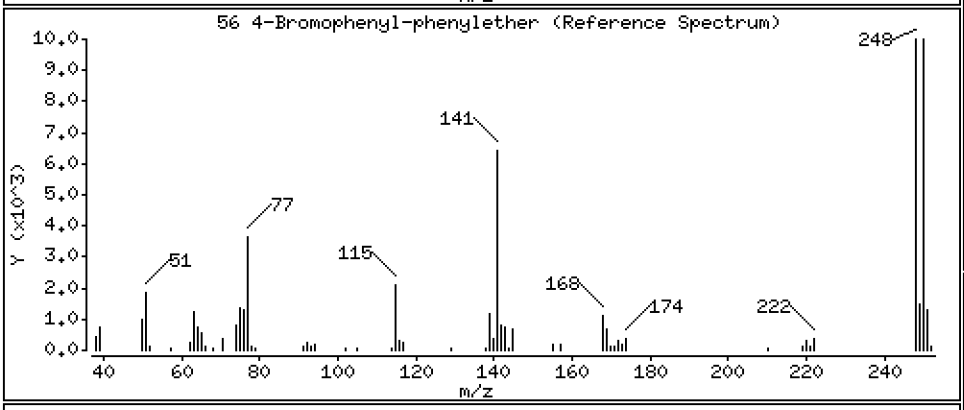
Column diameter: 0.25

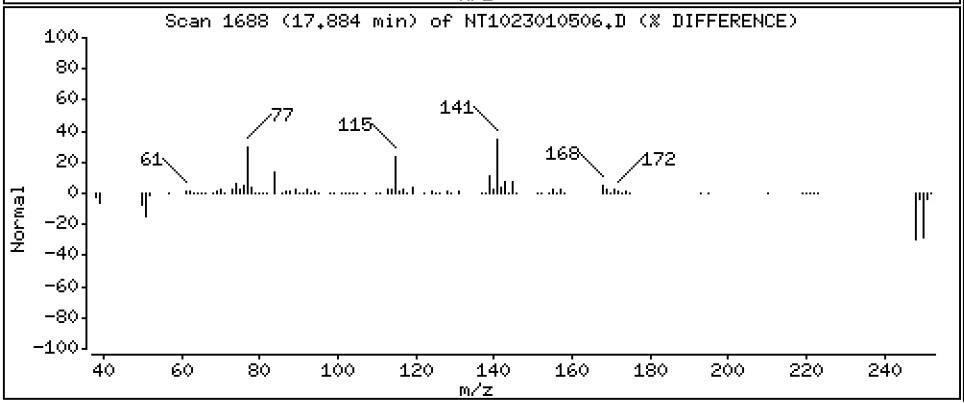
56 4-Bromophenyl-phenylether

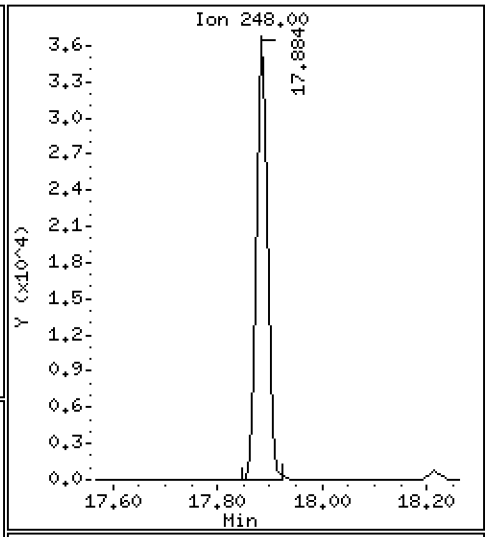
Concentration: 5.730 ug/mL

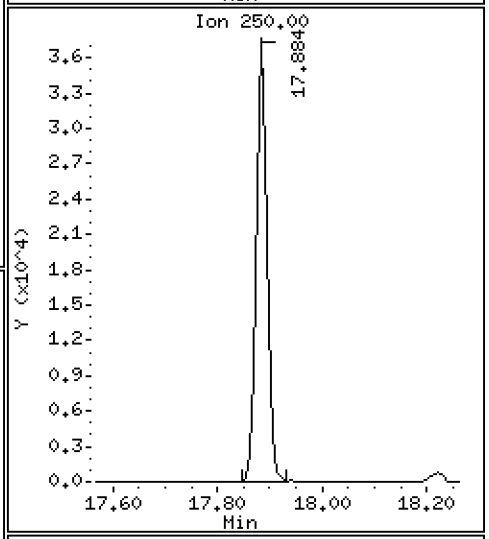


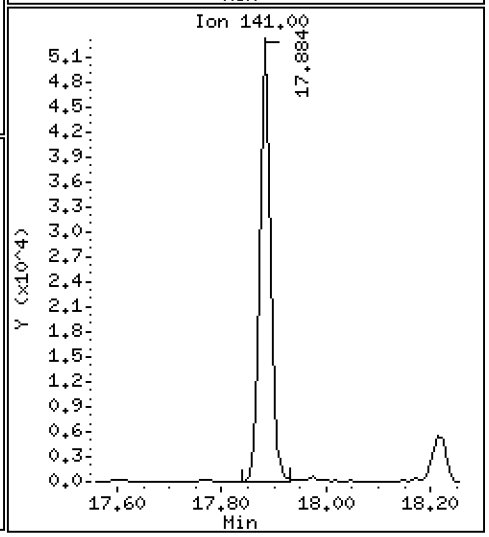












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

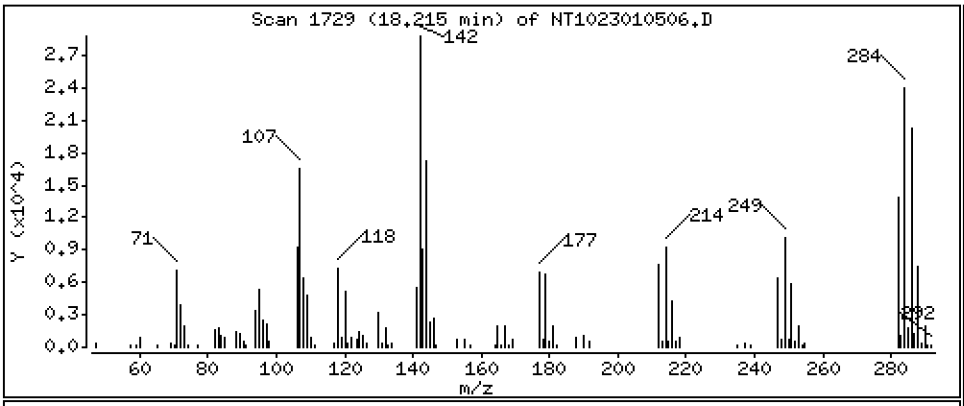
Operator: VTS

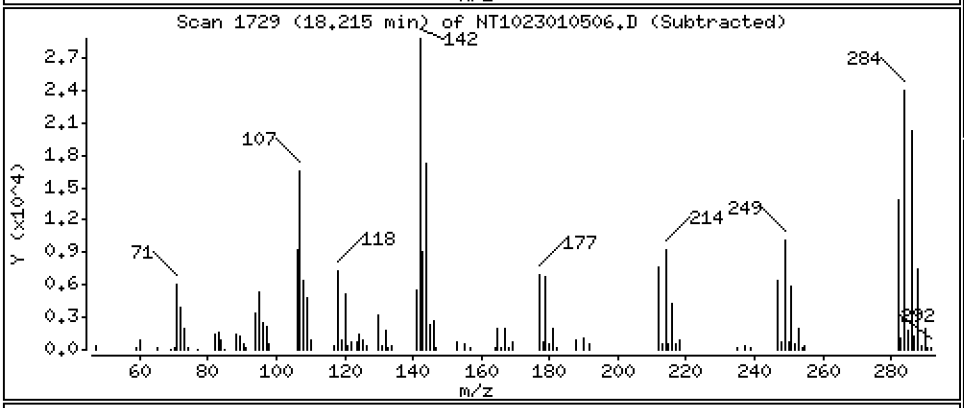
Column phase: ZB-5msi

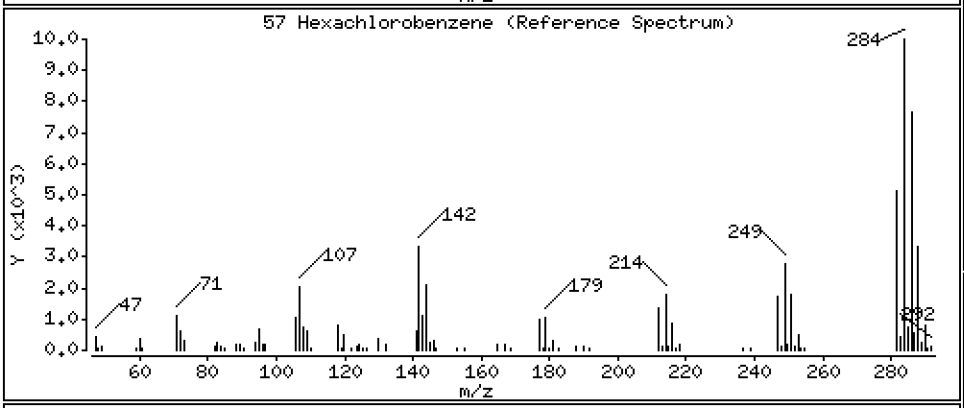
Column diameter: 0.25

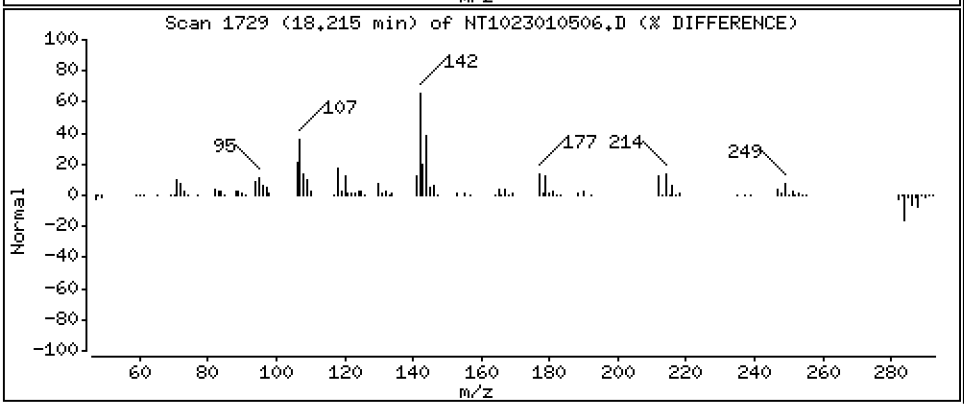
57 Hexachlorobenzene

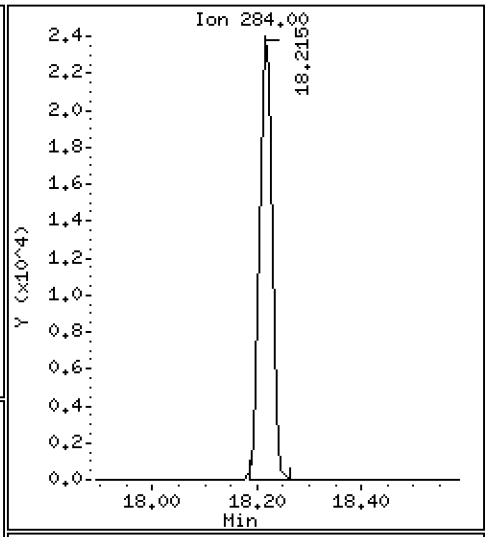
Concentration: 4.492 ug/mL

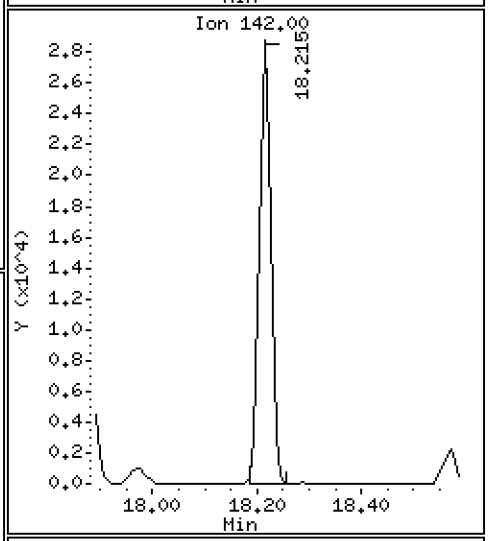


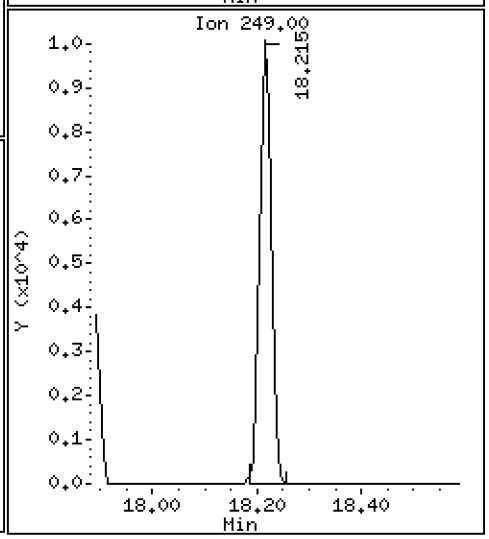












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

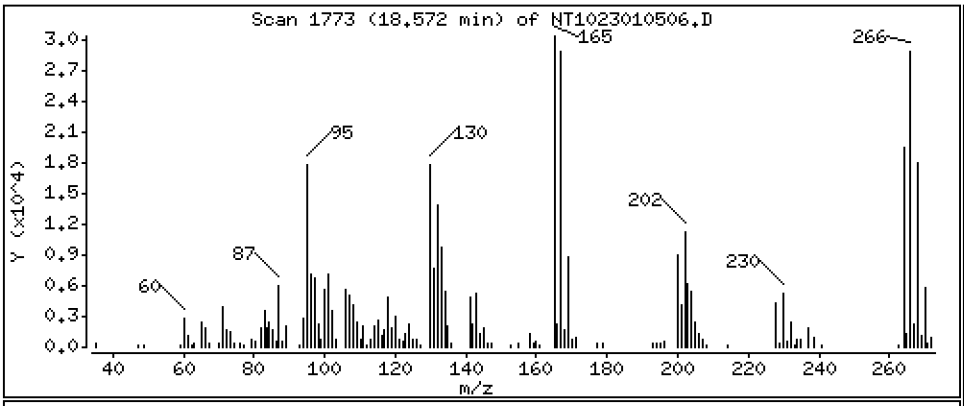
Operator: VTS

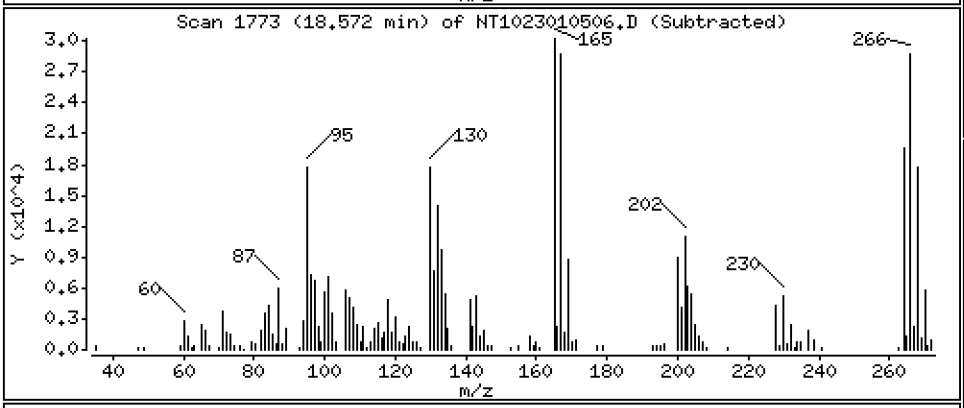
Column phase: ZB-5msi

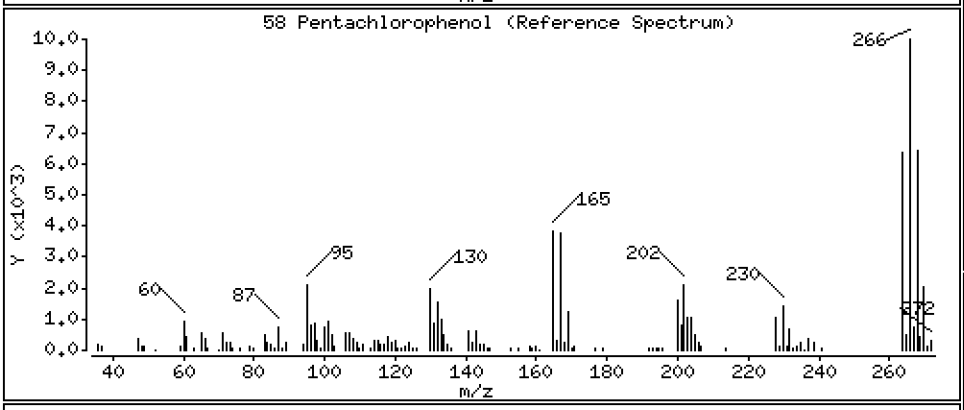
Column diameter: 0.25

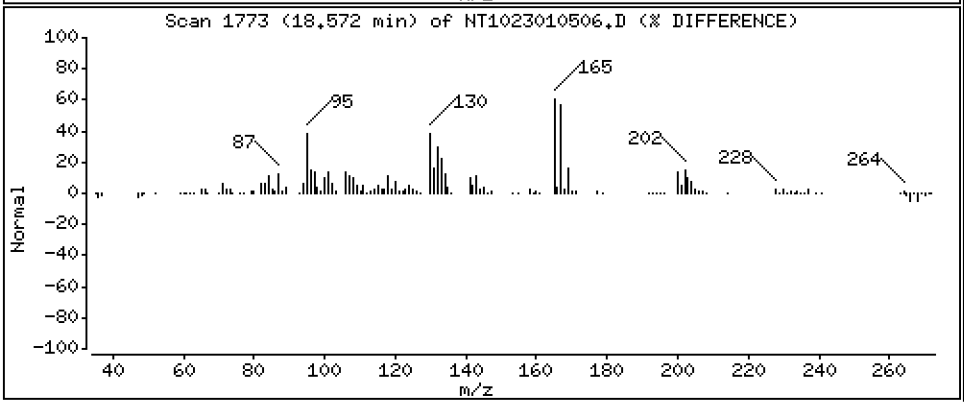
58 Pentachlorophenol

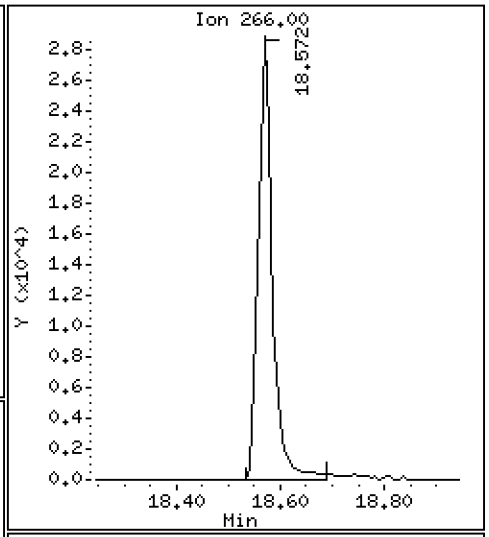
Concentration: 24.17 ug/mL

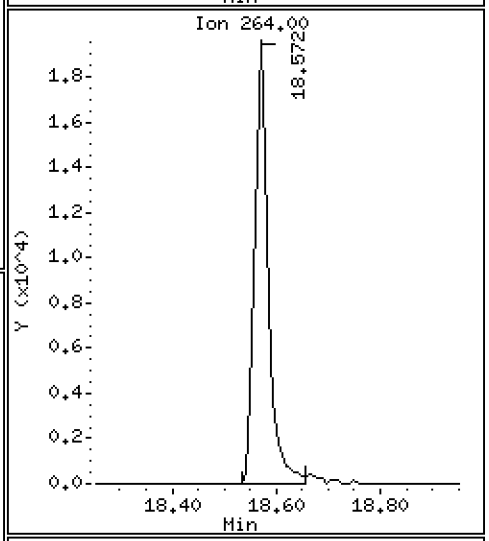


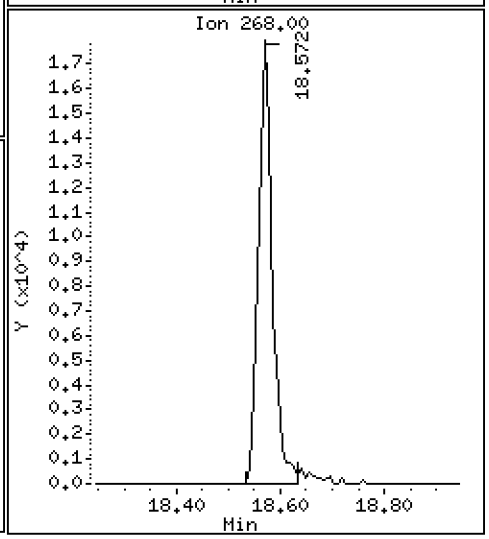












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

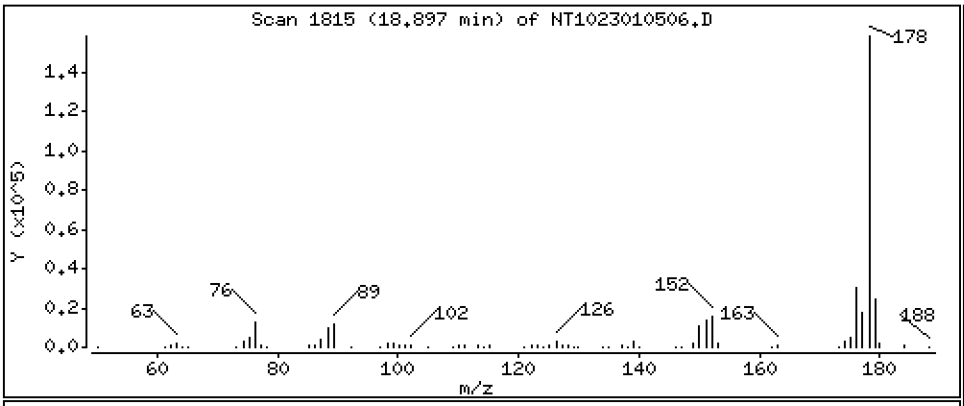
Operator: VTS

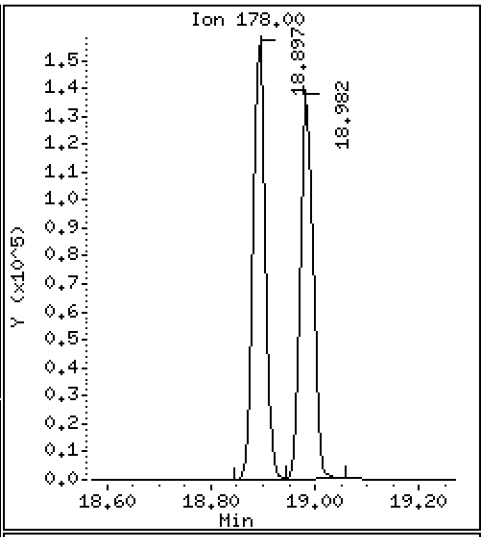
Column phase: ZB-5msi

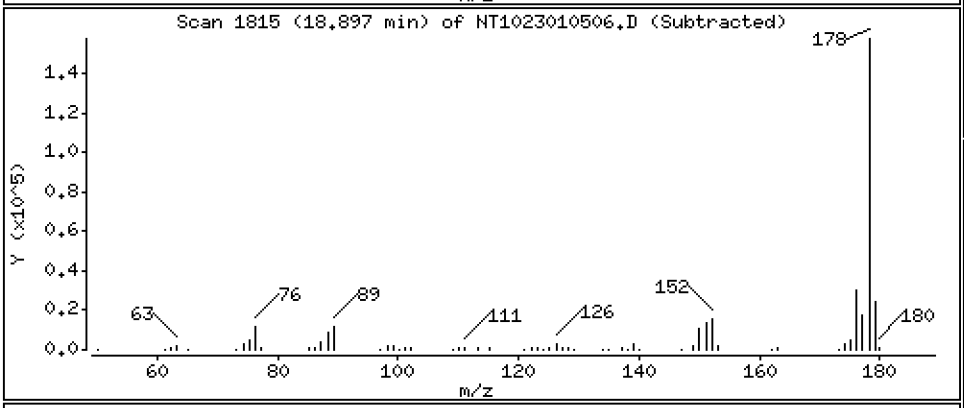
Column diameter: 0.25

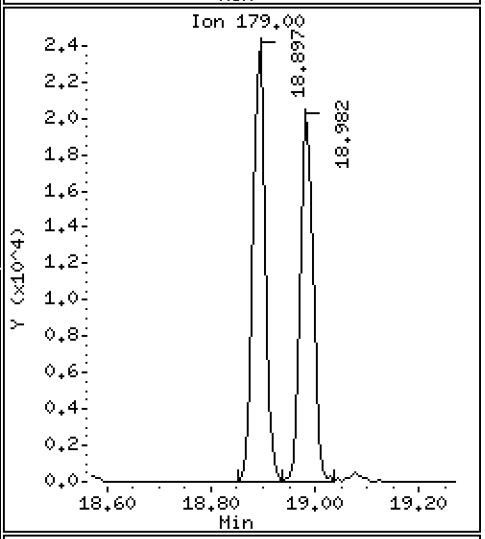
60 Phenanthrene

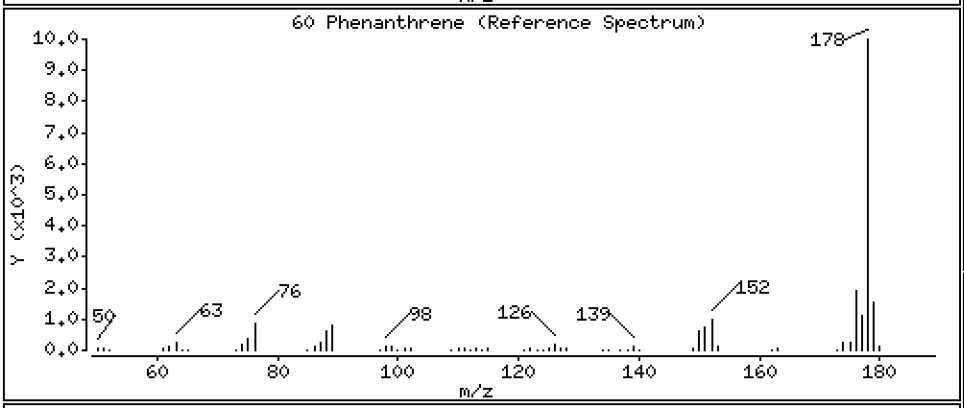
Concentration: 5.351 ug/mL

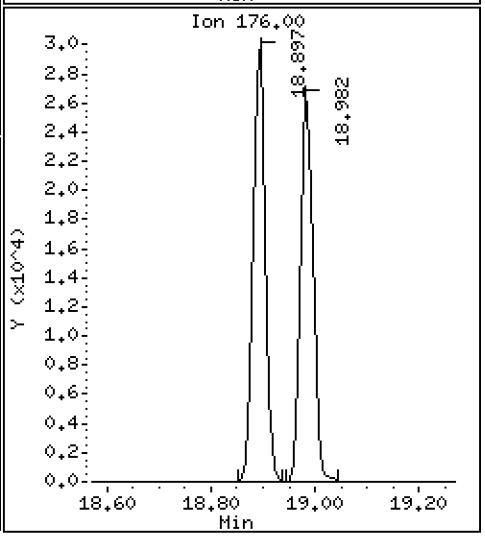


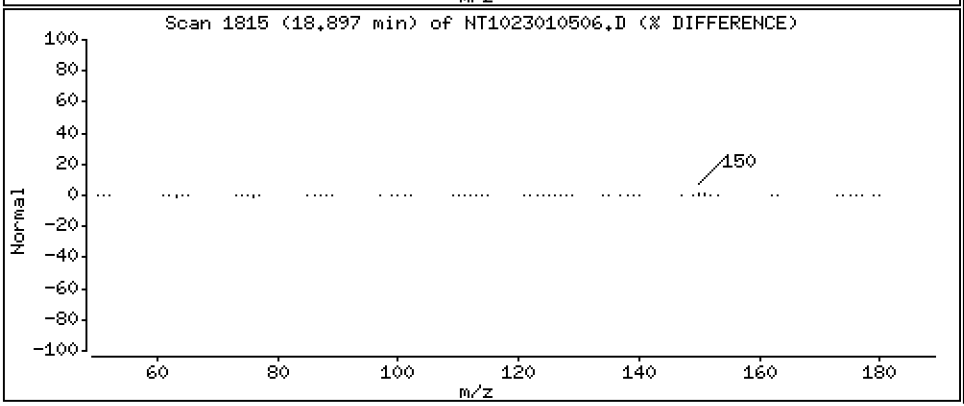












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

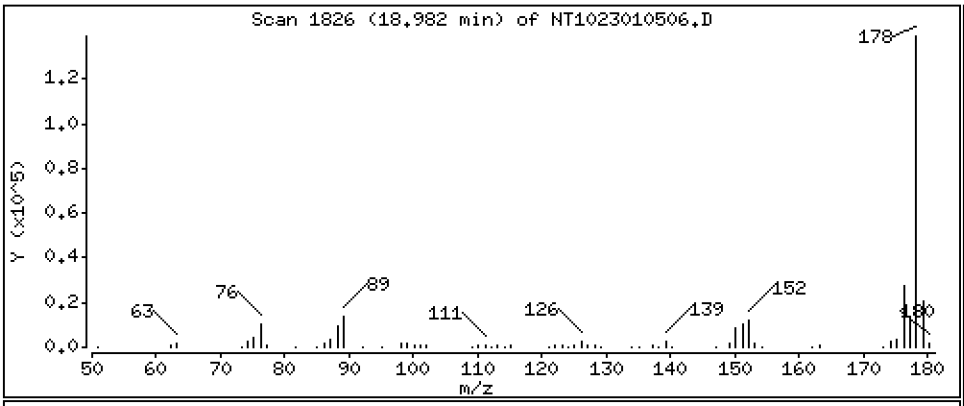
Operator: VTS

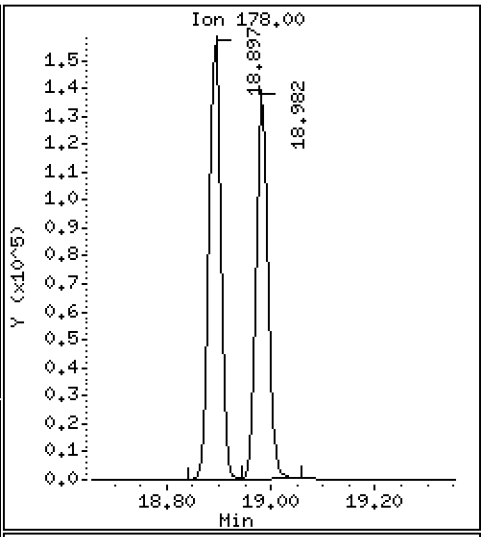
Column phase: ZB-5msi

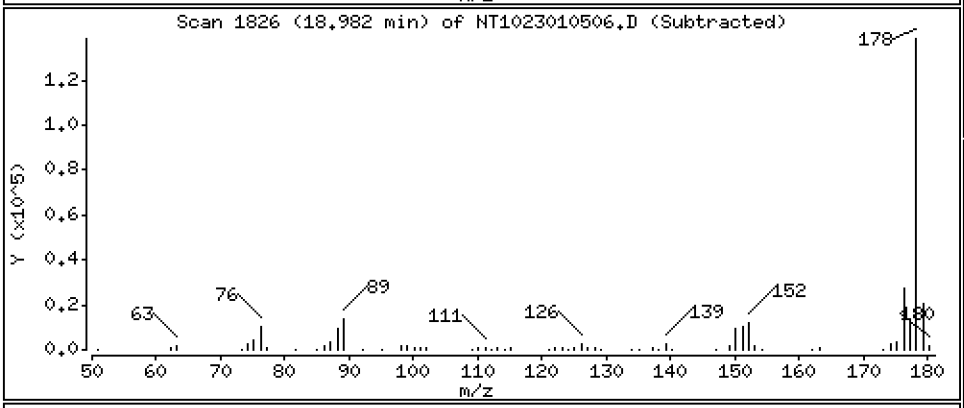
Column diameter: 0.25

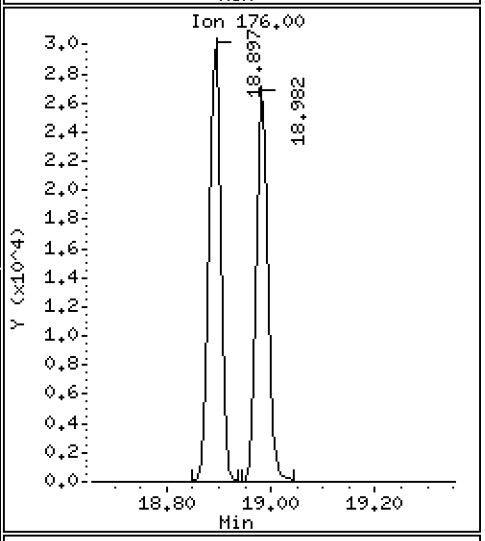
61 Anthracene

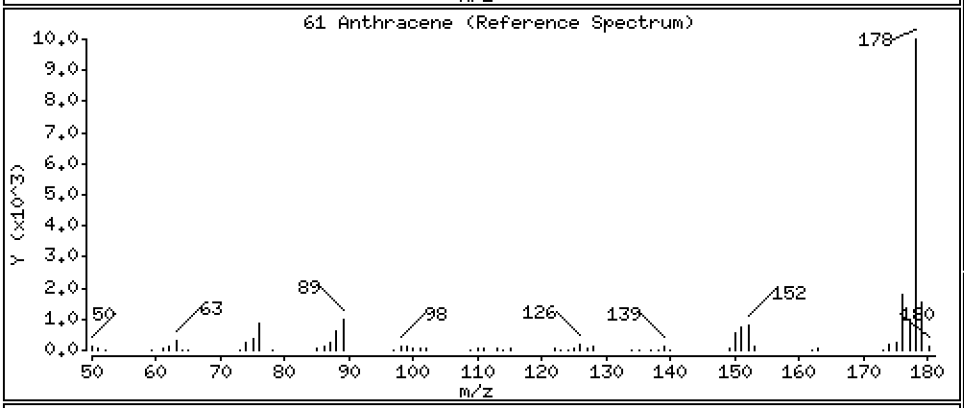
Concentration: 4.699 ug/mL

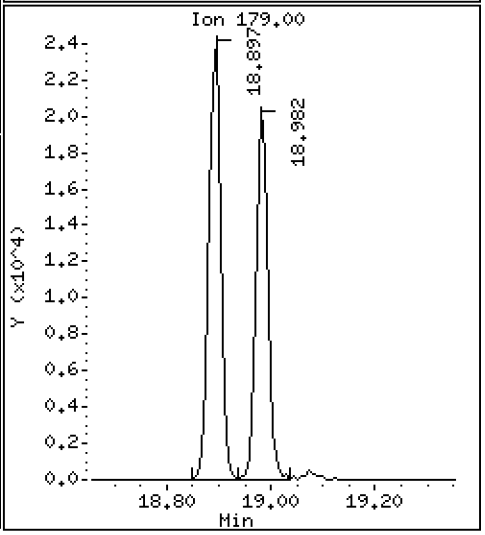


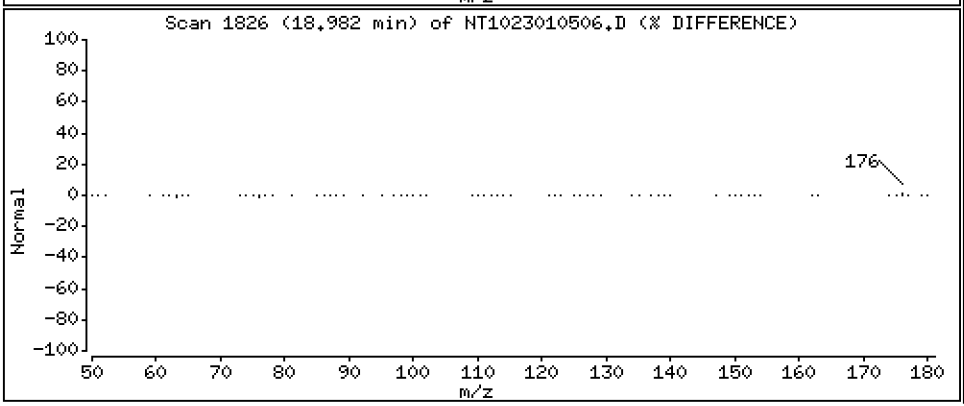












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

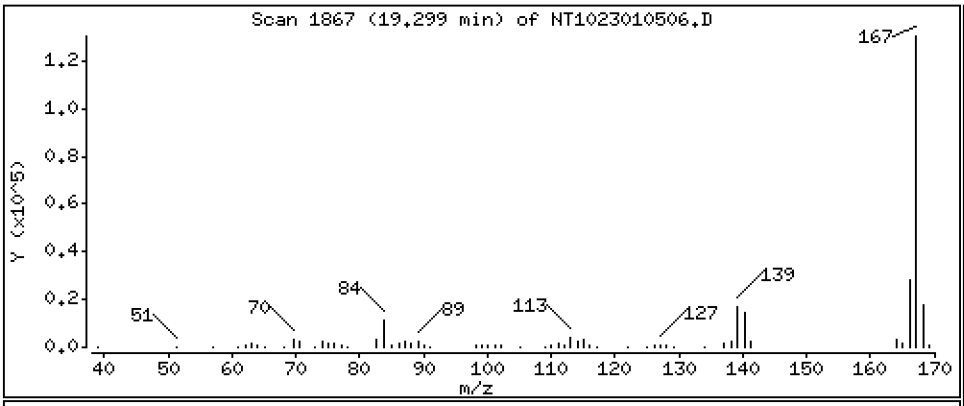
Operator: VTS

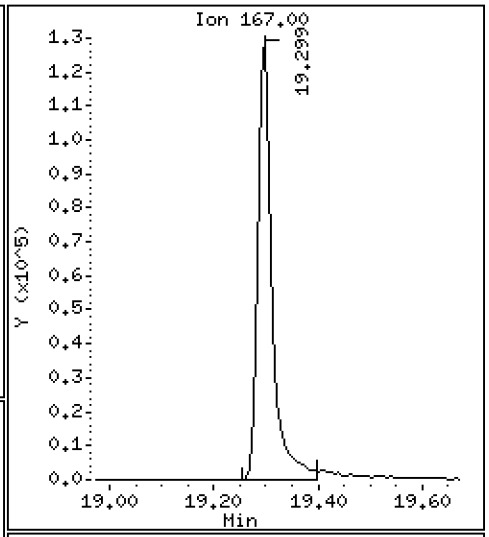
Column phase: ZB-5msi

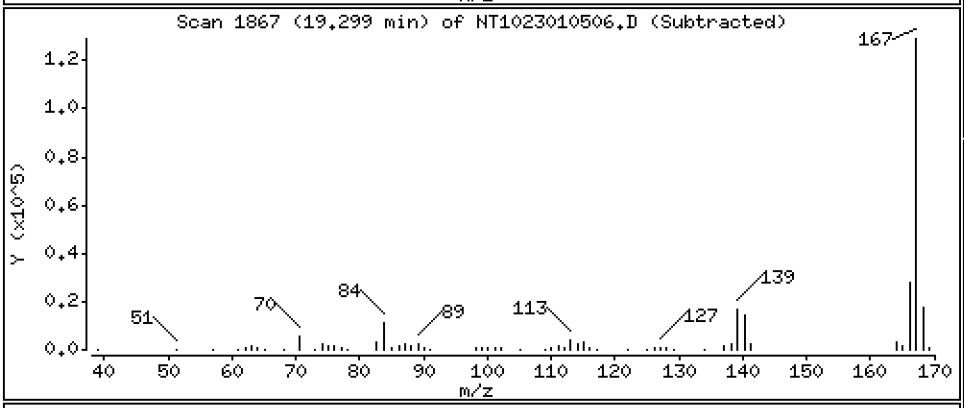
Column diameter: 0.25

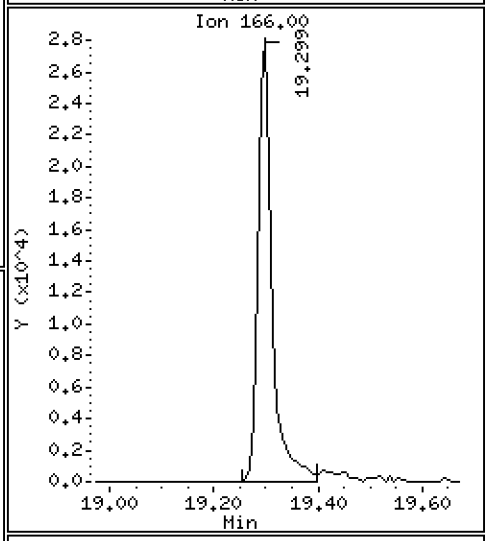
62 Carbazole

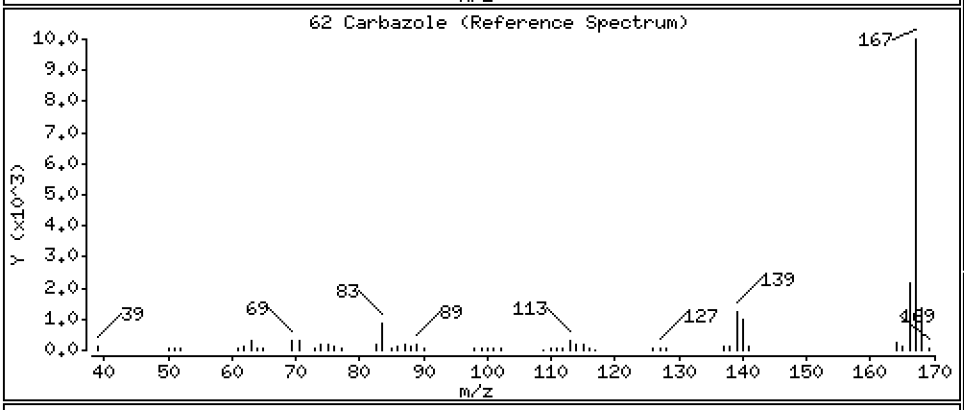
Concentration: 4.890 ug/mL

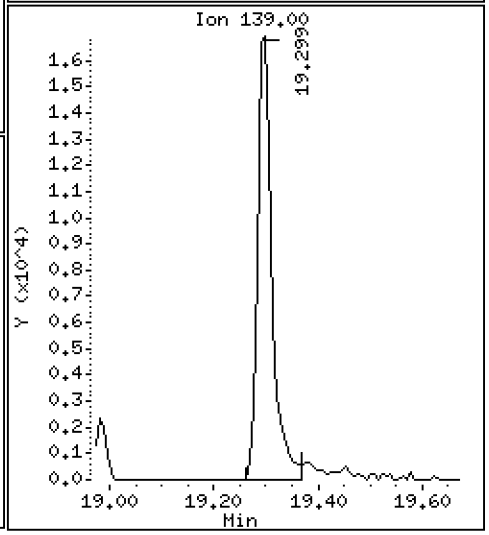


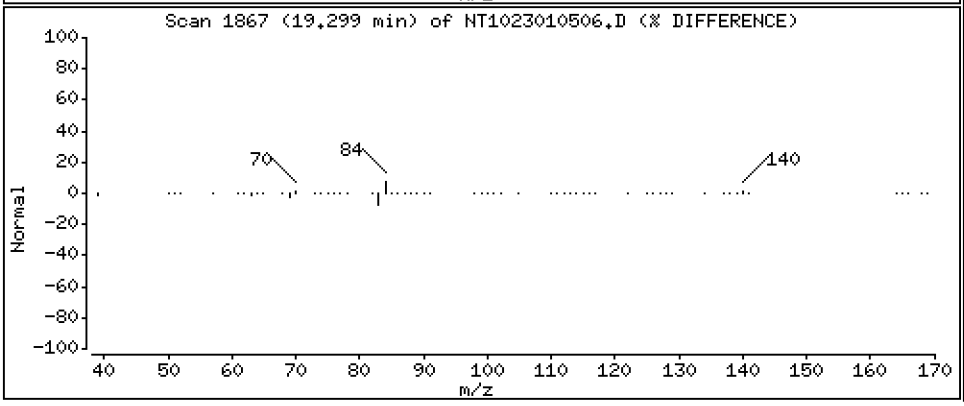












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

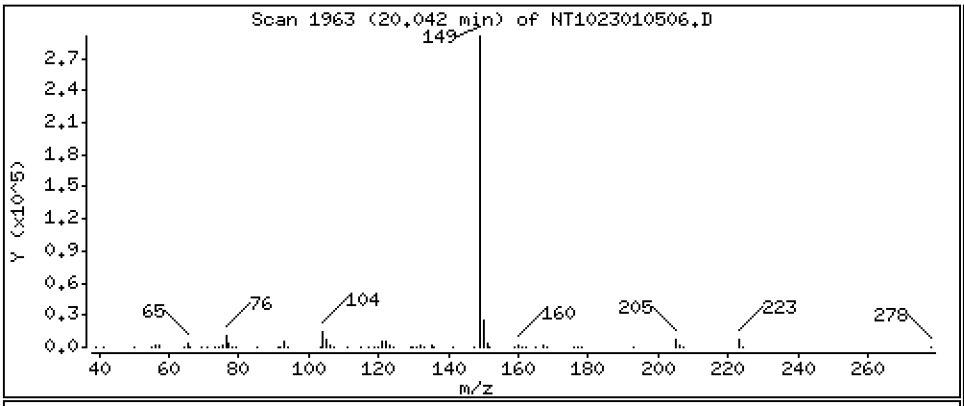
Operator: VTS

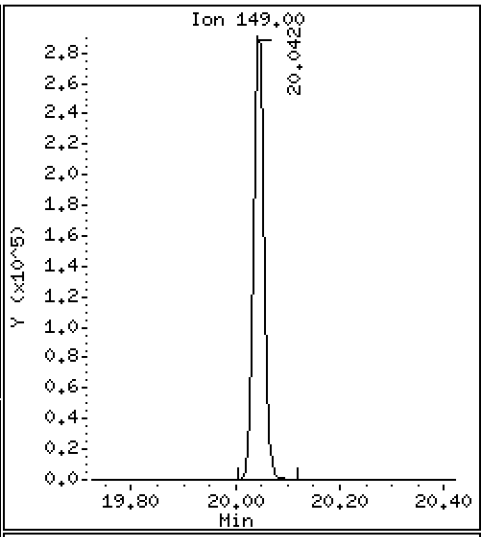
Column phase: ZB-5msi

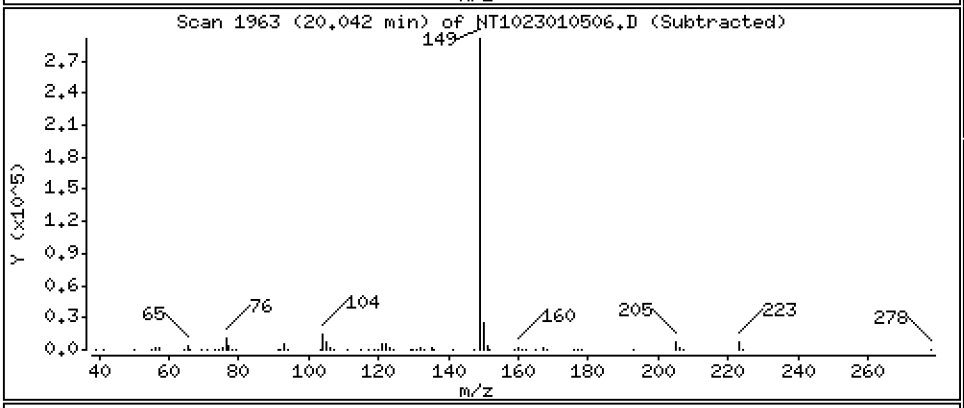
Column diameter: 0.25

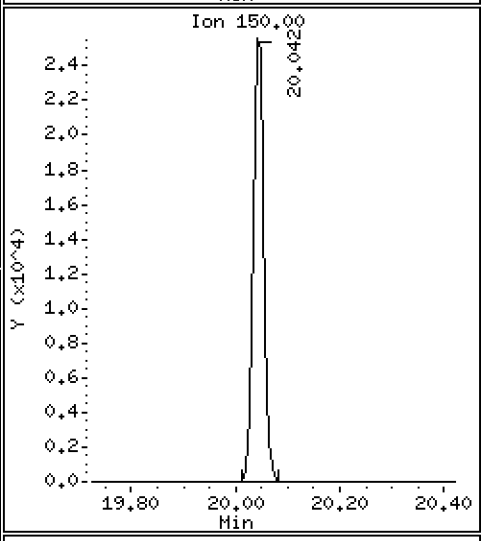
63 Di-n-butylphthalate

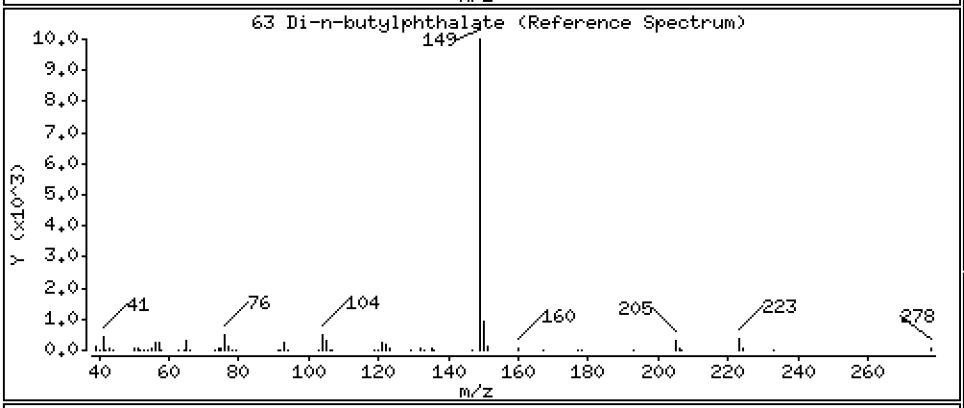
Concentration: 5.887 ug/mL

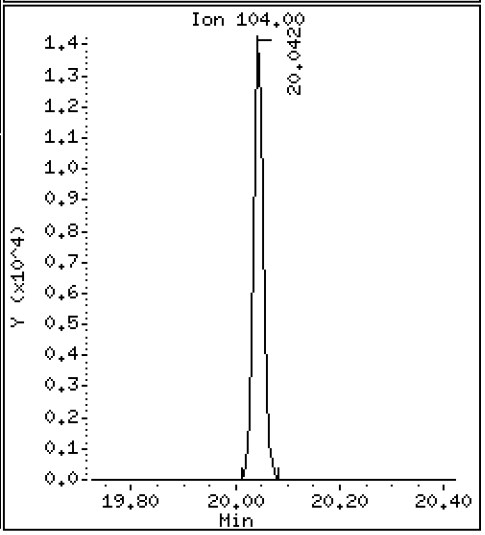


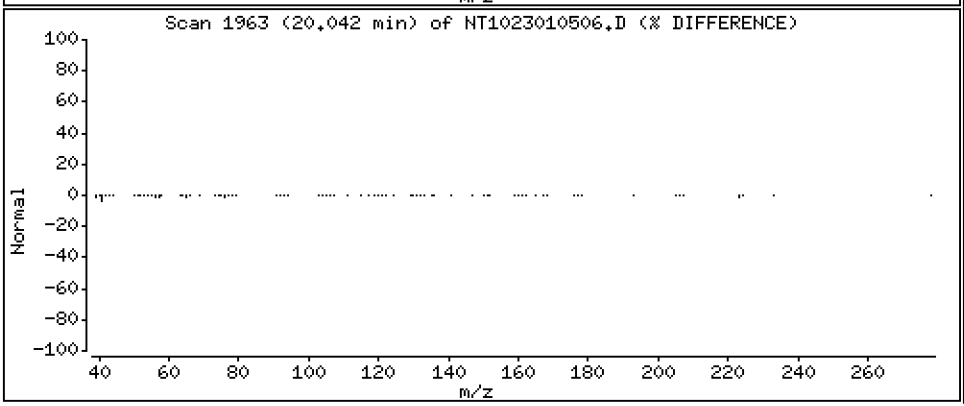












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

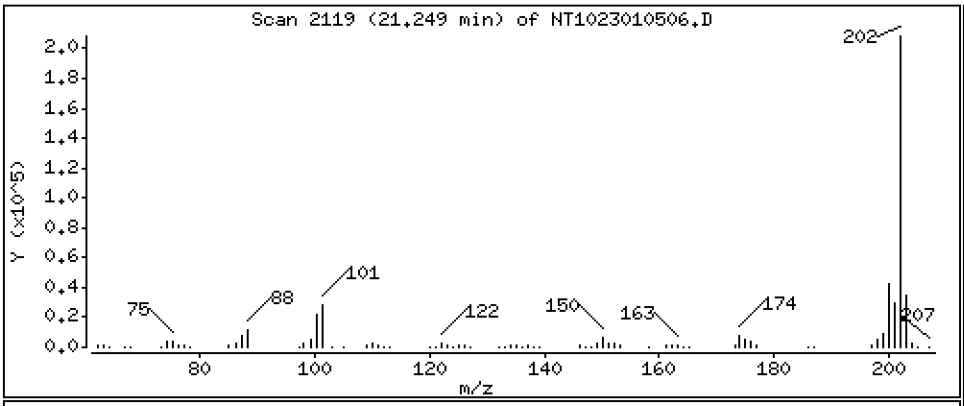
Operator: VTS

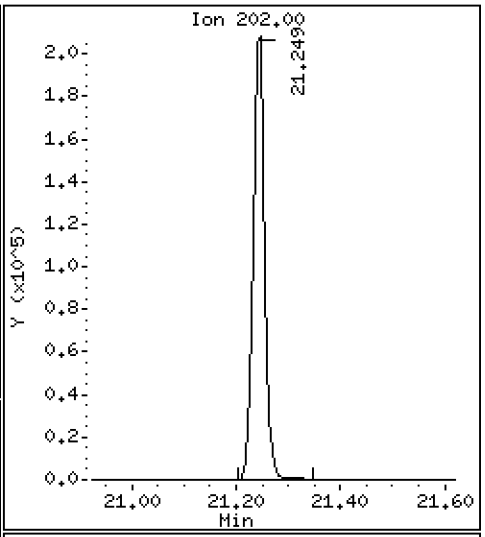
Column phase: ZB-5msi

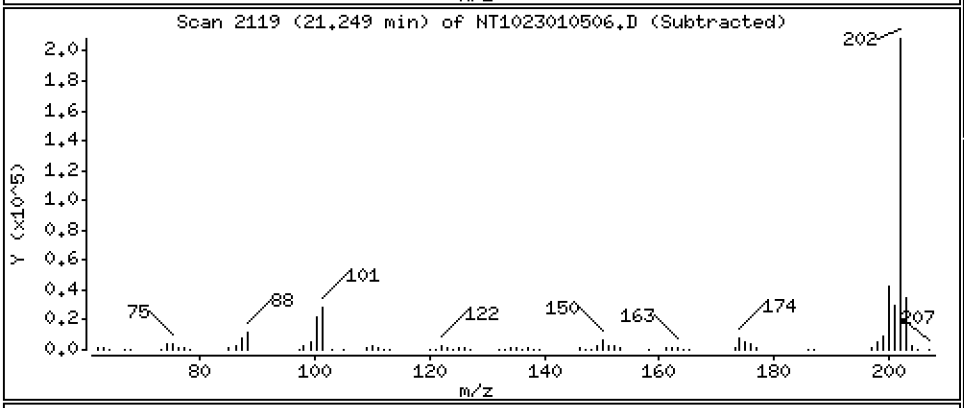
Column diameter: 0.25

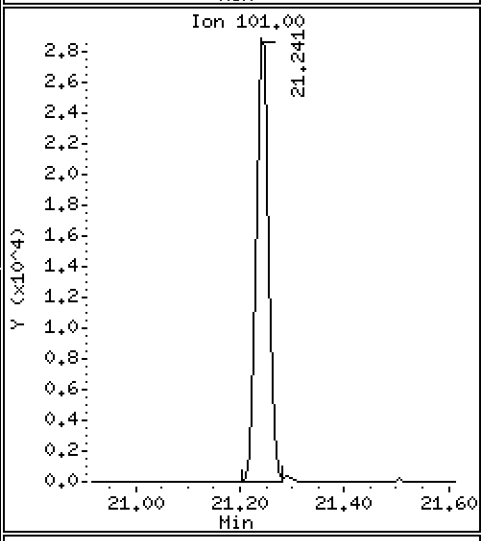
64 Fluoranthene

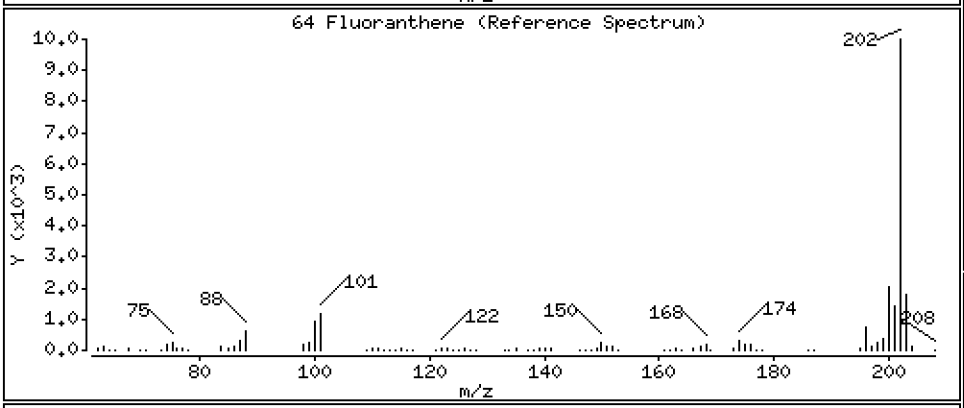
Concentration: 5.630 ug/mL

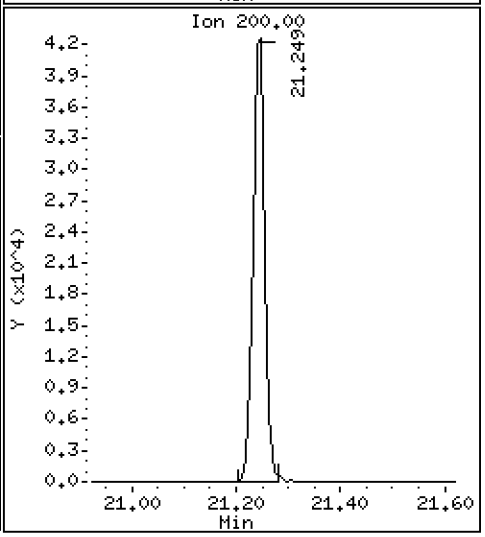


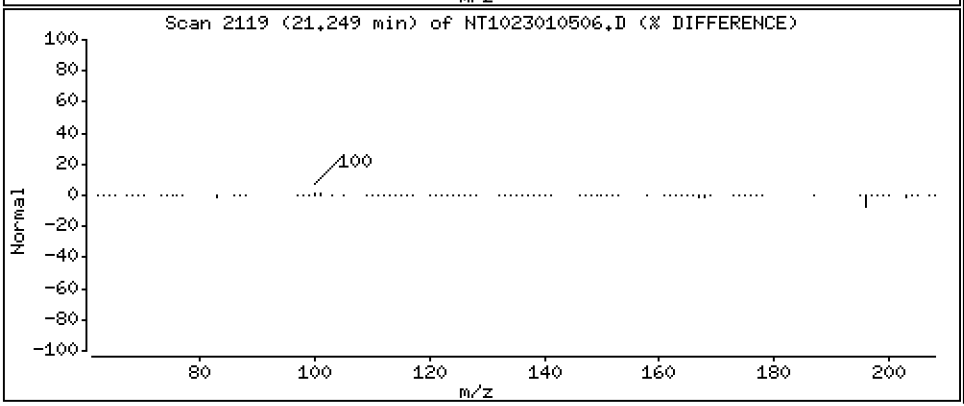












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

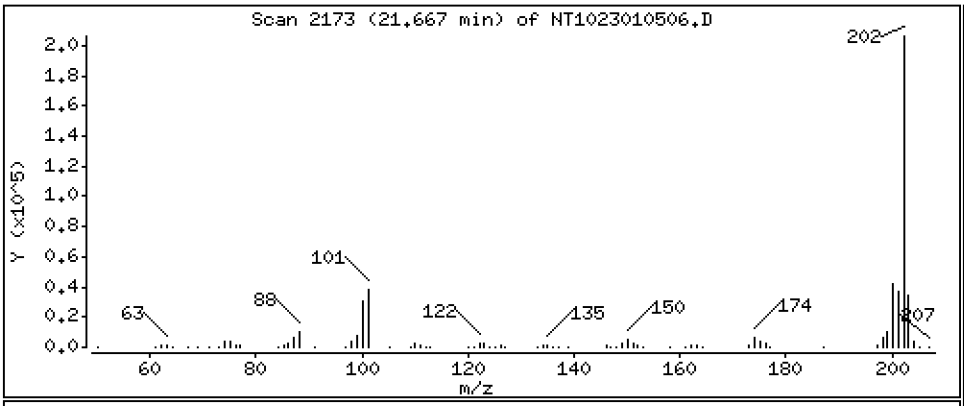
Operator: VTS

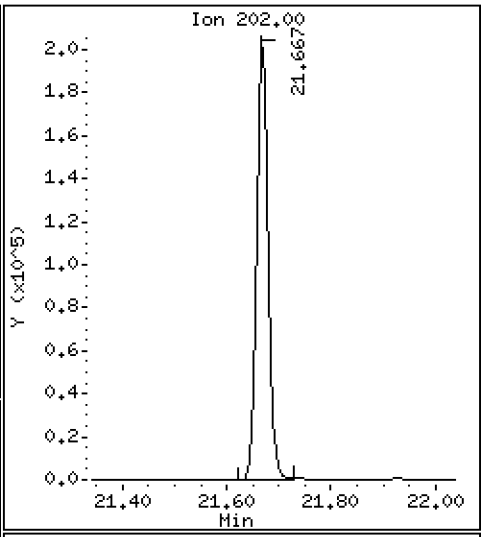
Column phase: ZB-5msi

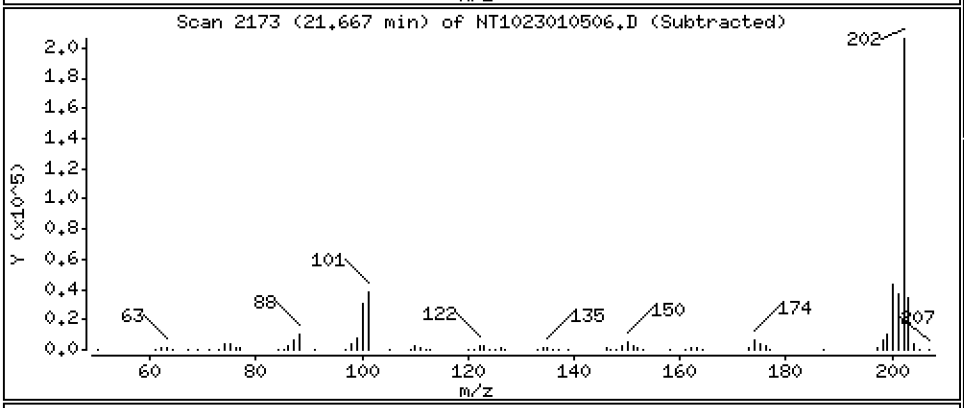
Column diameter: 0.25

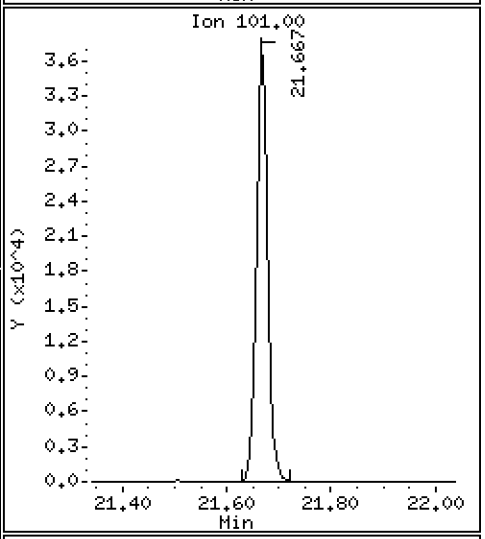
65 Pyrene

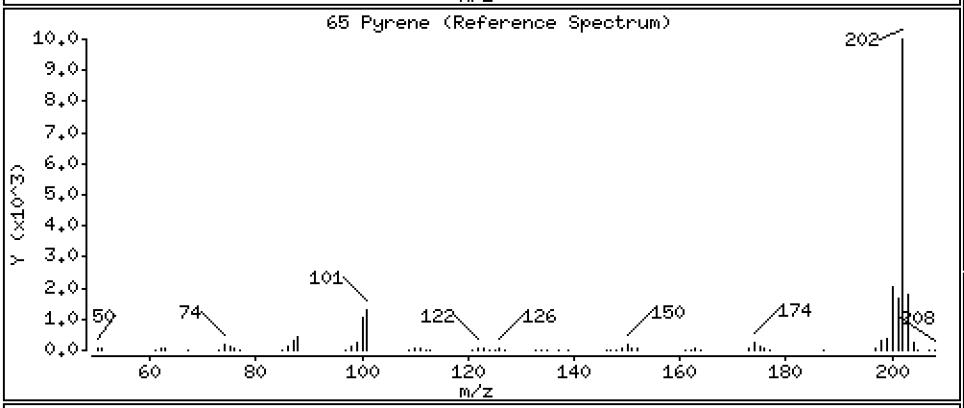
Concentration: 5.463 ug/mL

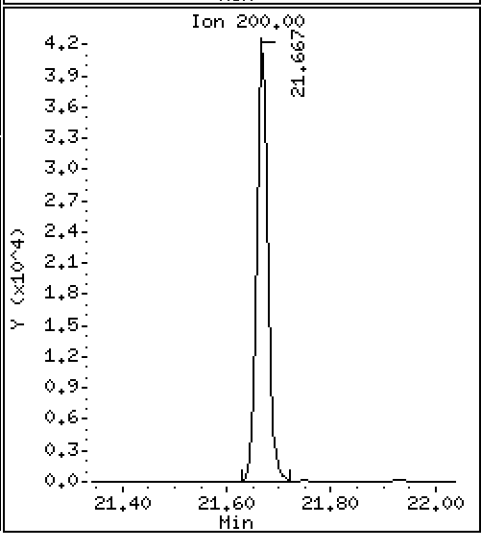


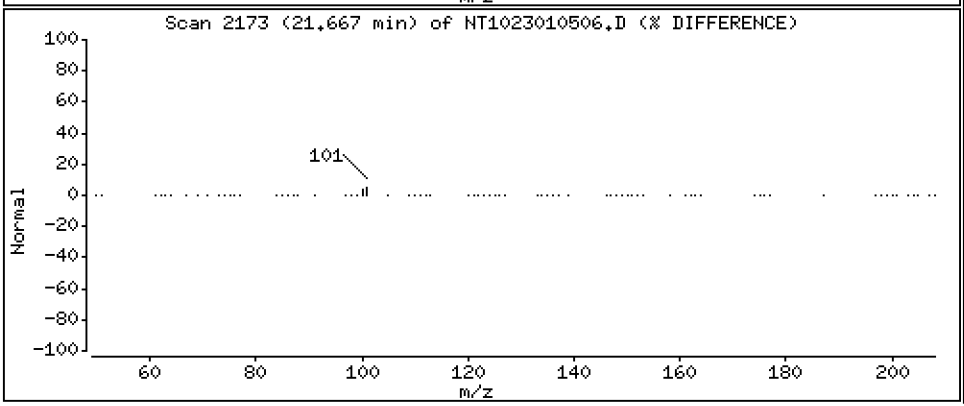












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

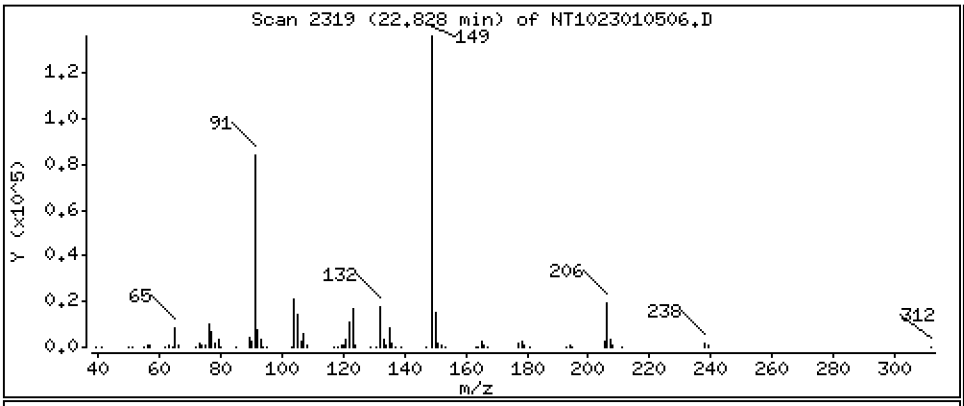
Operator: VTS

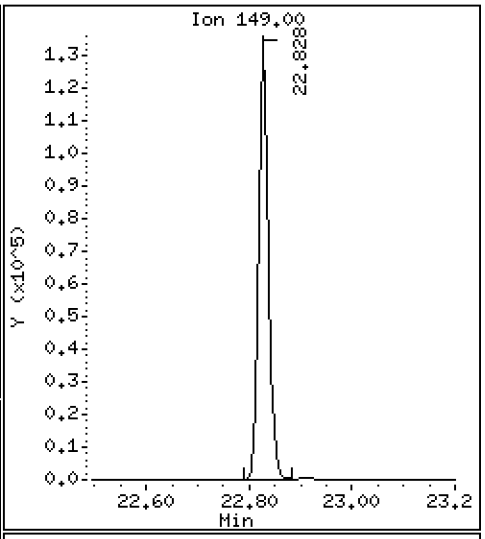
Column phase: ZB-5msi

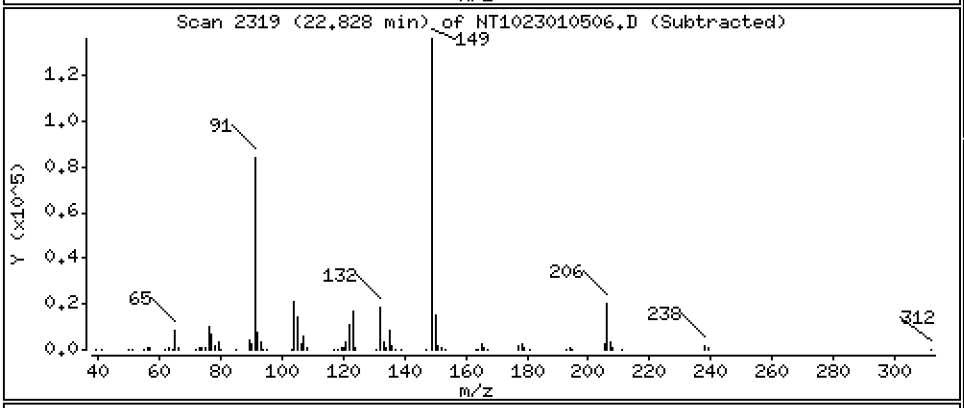
Column diameter: 0.25

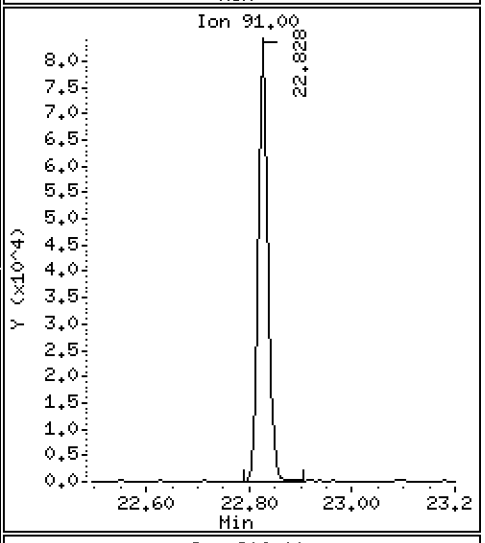
67 Butylbenzylphthalate

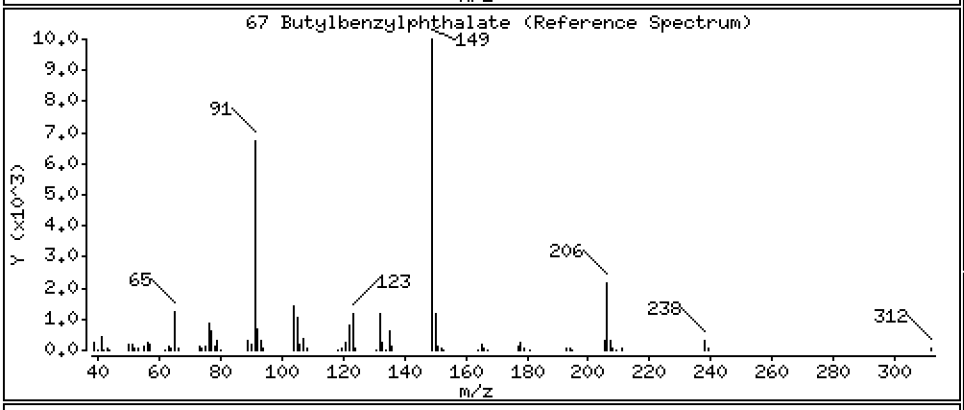
Concentration: 5.629 ug/mL

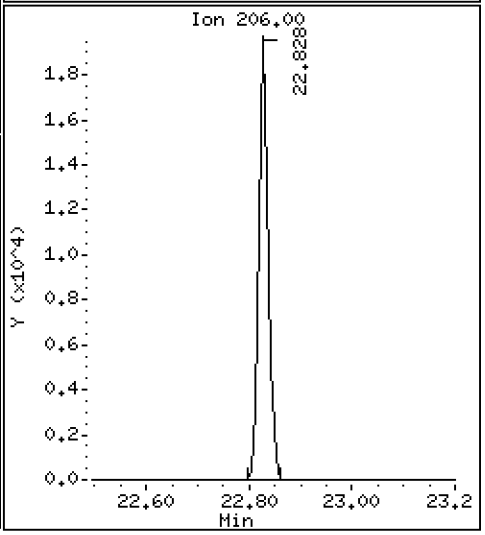


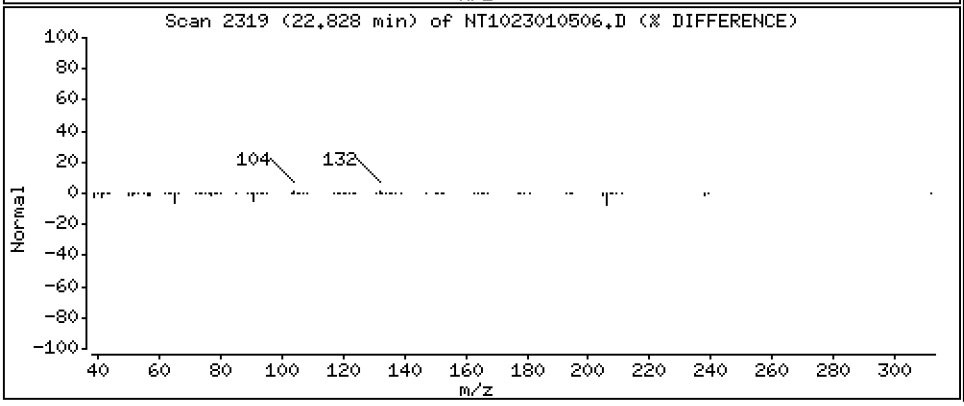












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

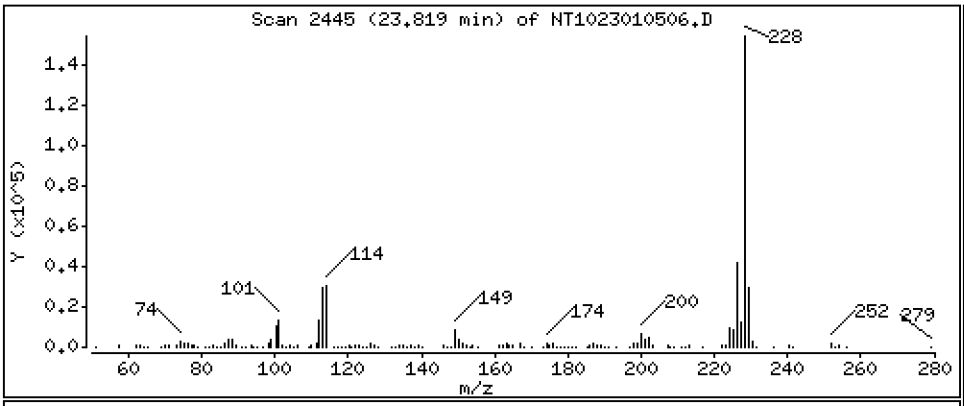
Operator: VTS

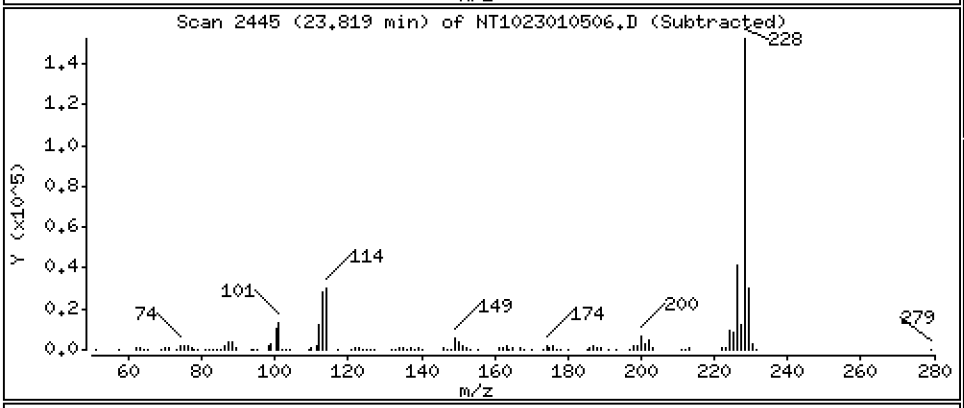
Column phase: ZB-5msi

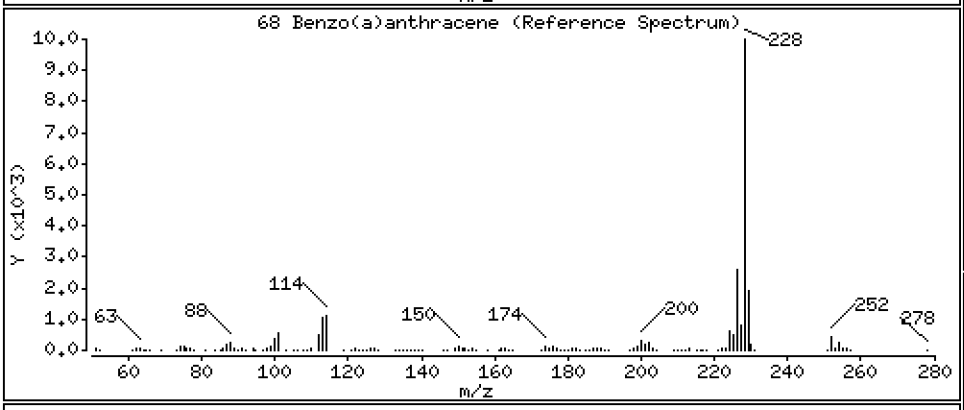
Column diameter: 0.25

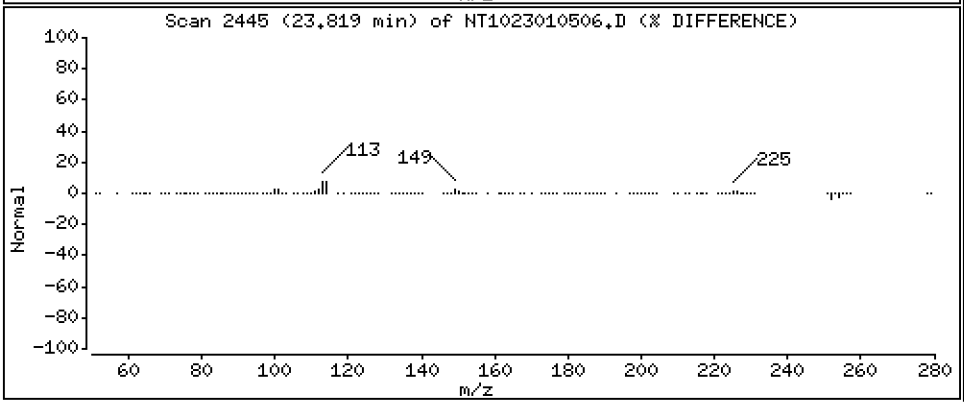
68 Benzo(a)anthracene

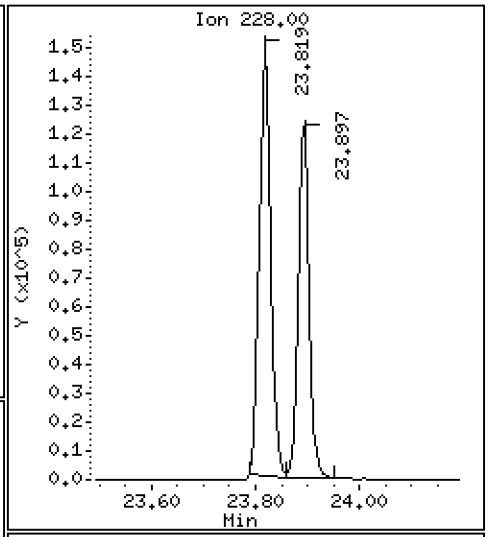
Concentration: 4.996 ug/mL

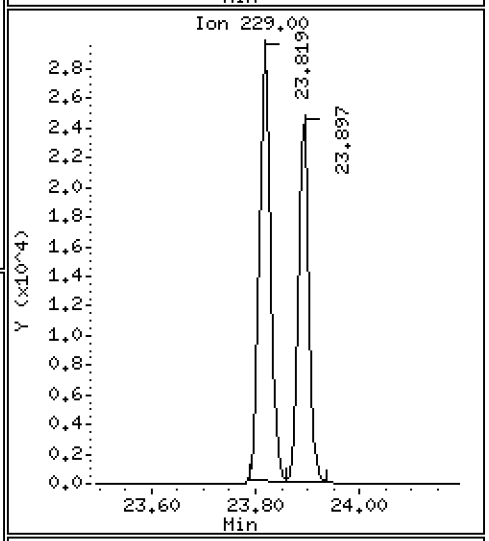


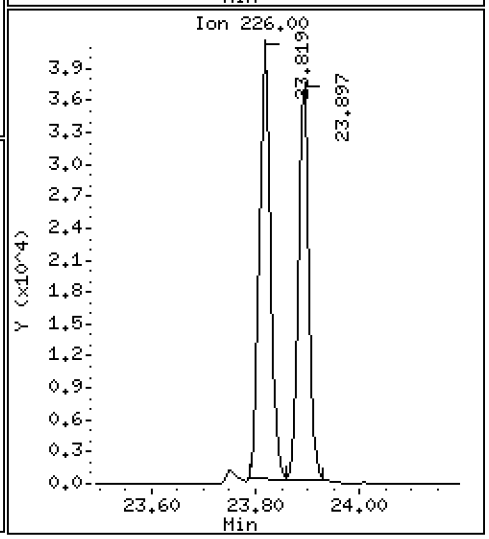












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

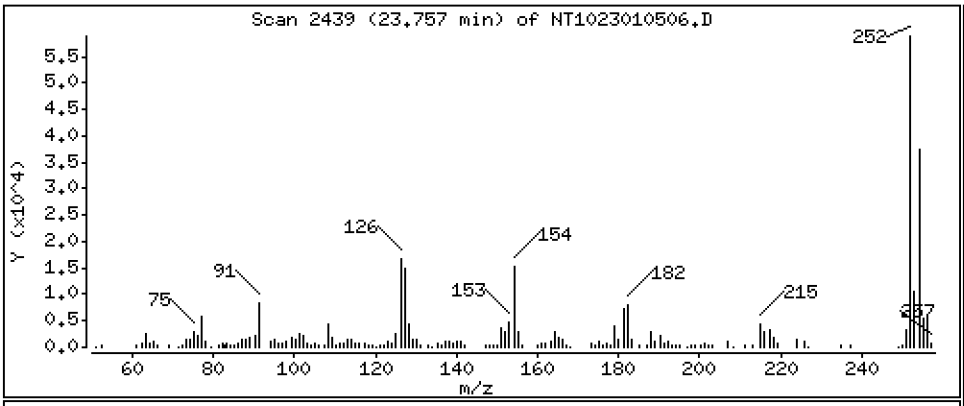
Operator: VTS

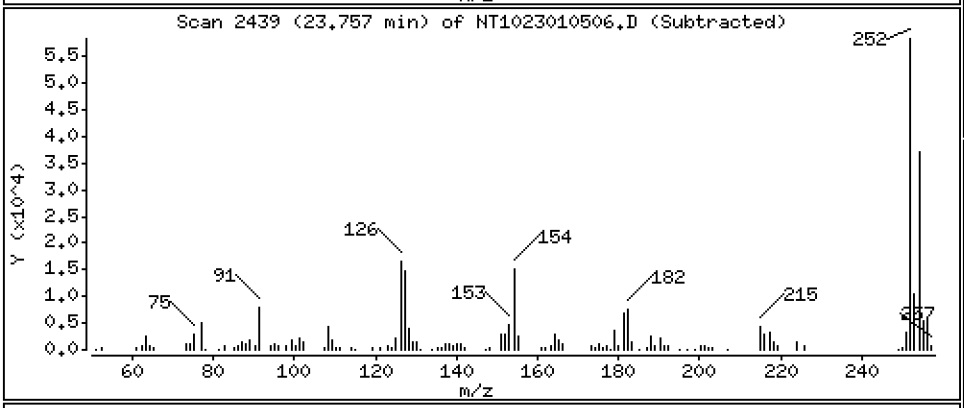
Column phase: ZB-5msi

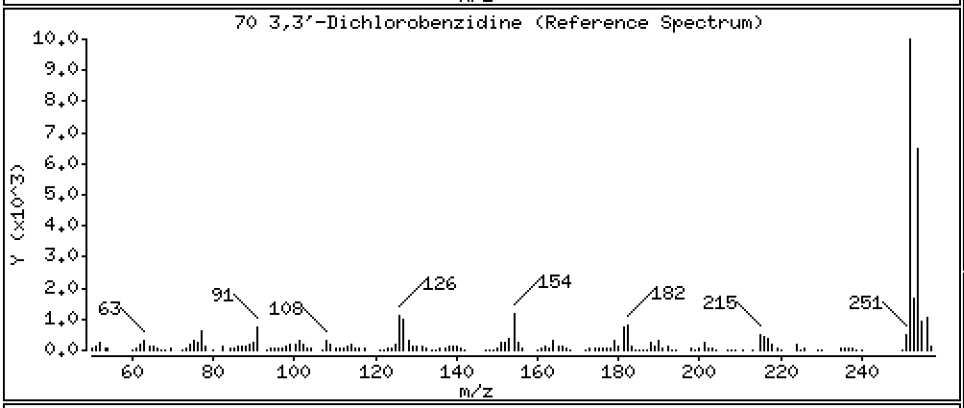
Column diameter: 0.25

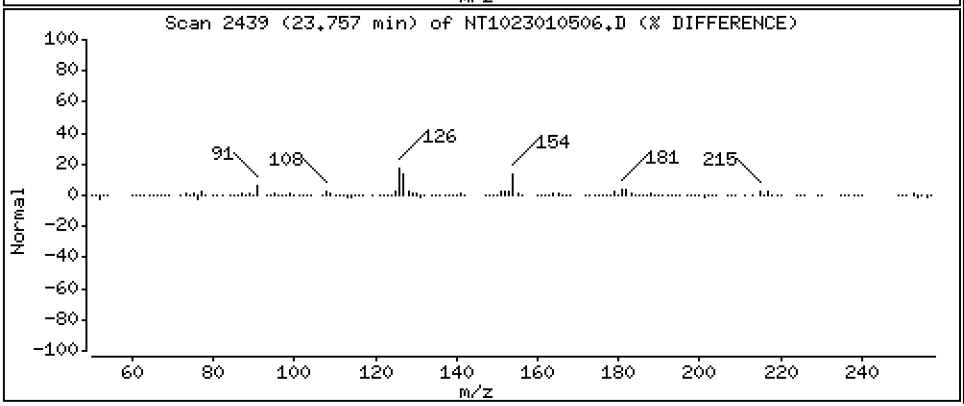
70 3,3'-Dichlorobenzidine

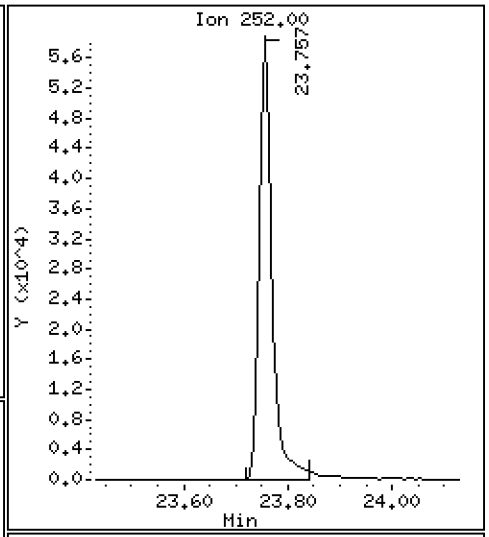
Concentration: 8.021 ug/mL

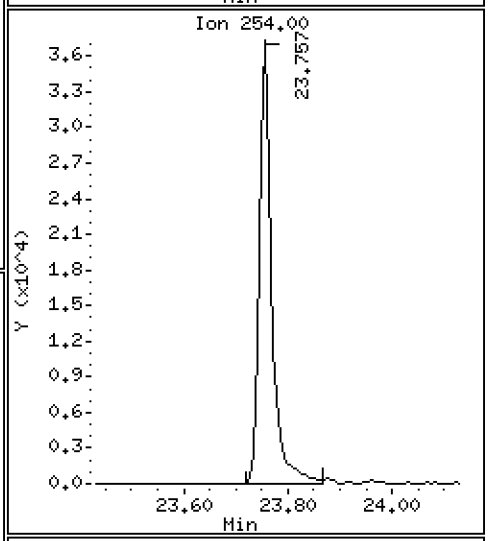


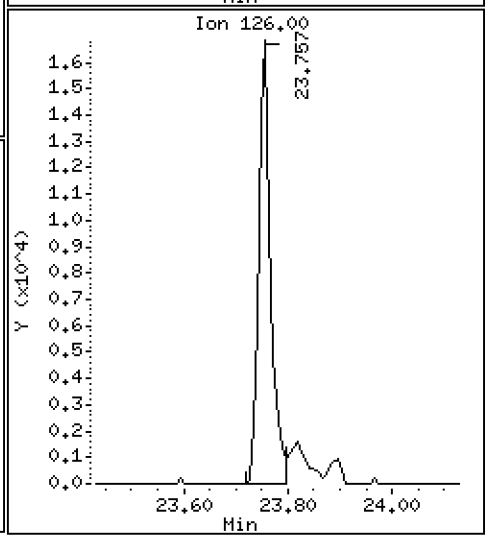












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

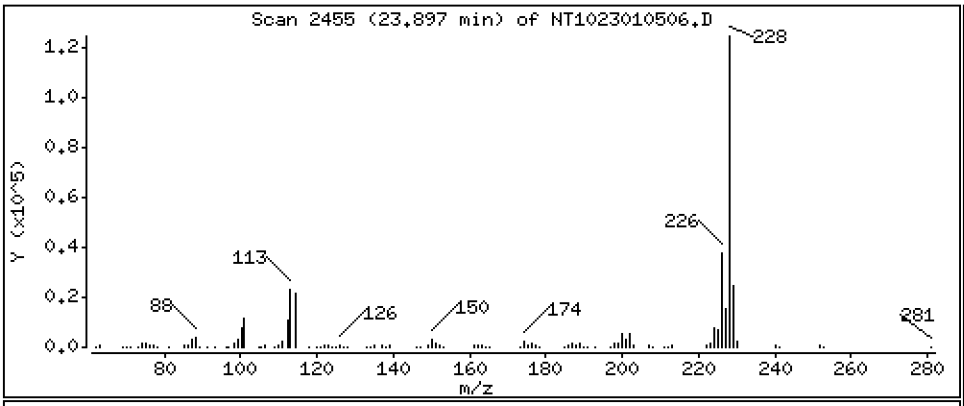
Operator: VTS

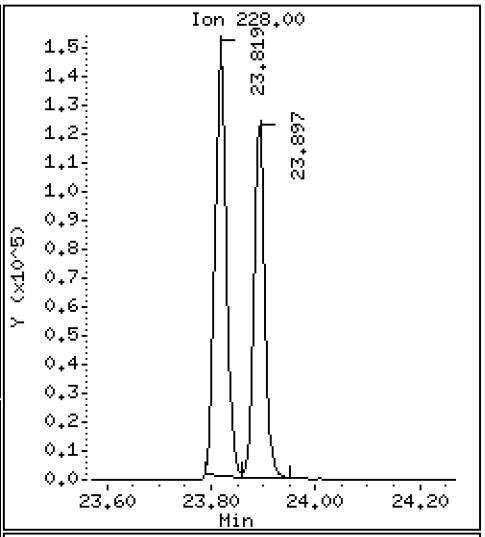
Column phase: ZB-5msi

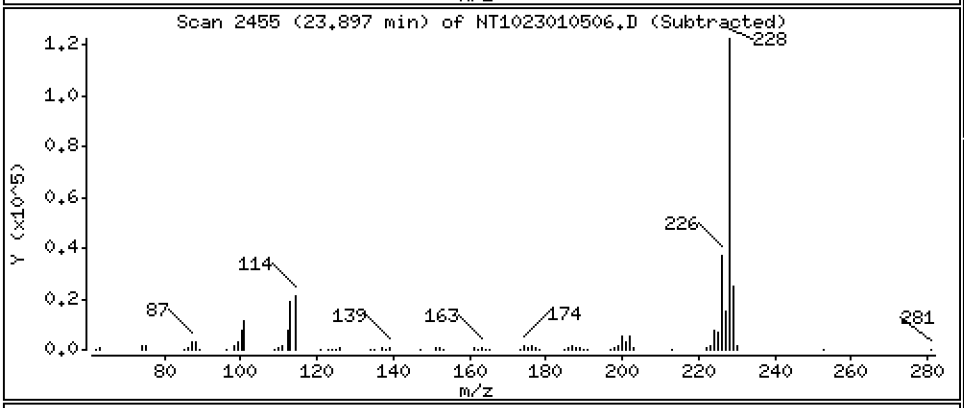
Column diameter: 0.25

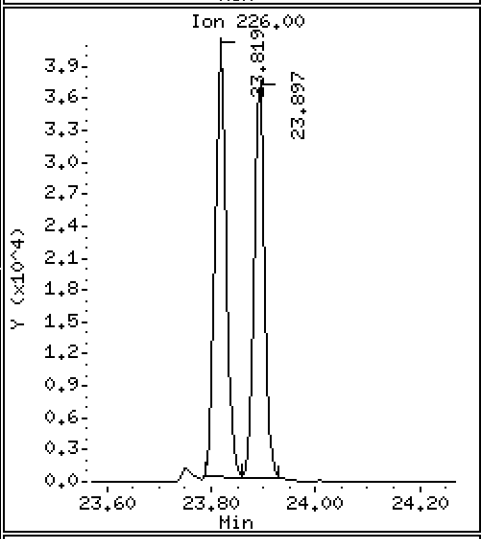
71 Chrysene

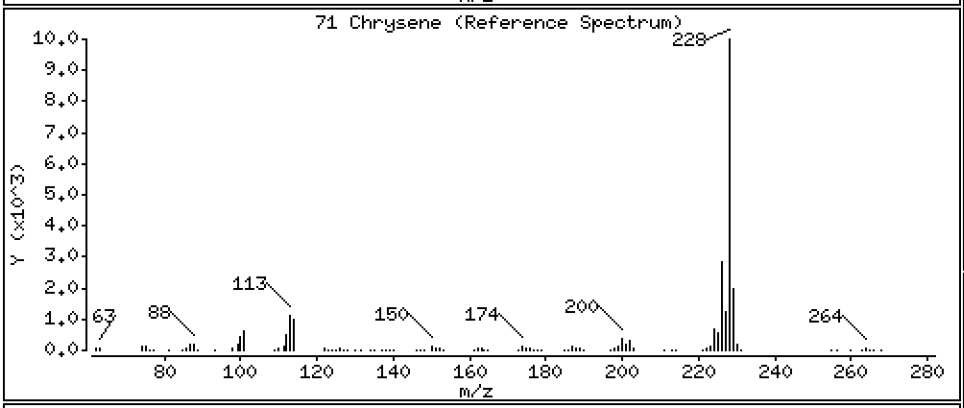
Concentration: 5.375 ug/mL

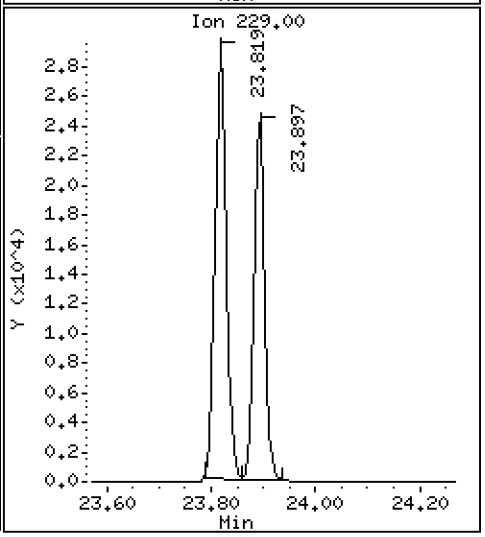


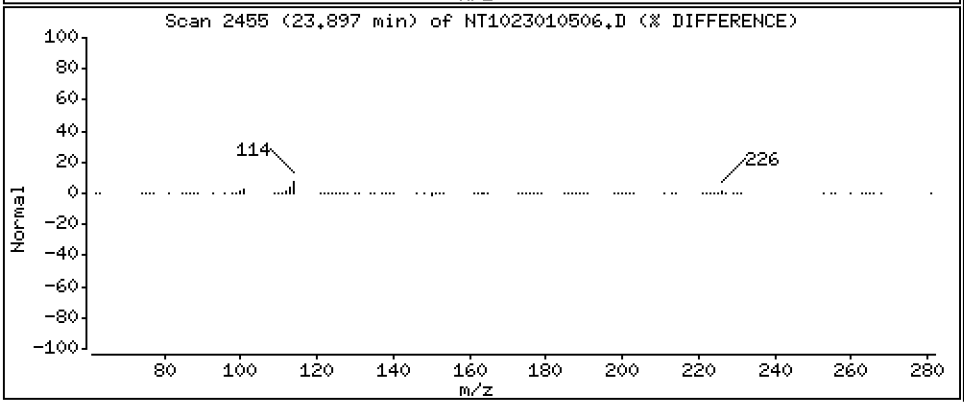












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

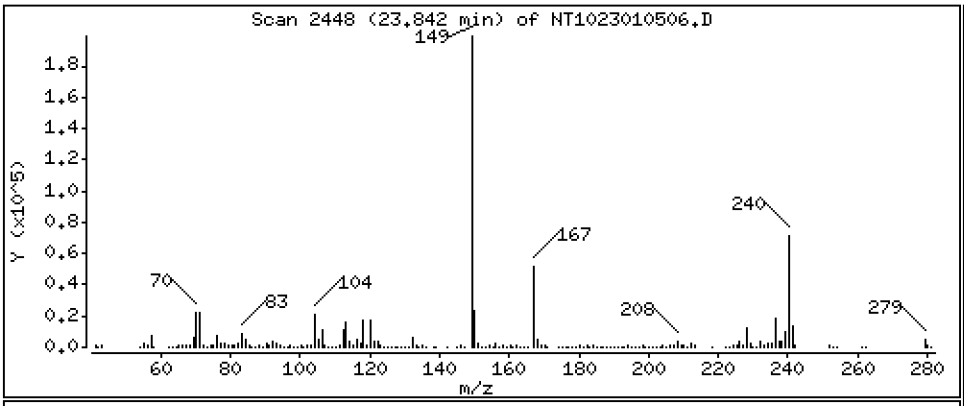
Operator: VTS

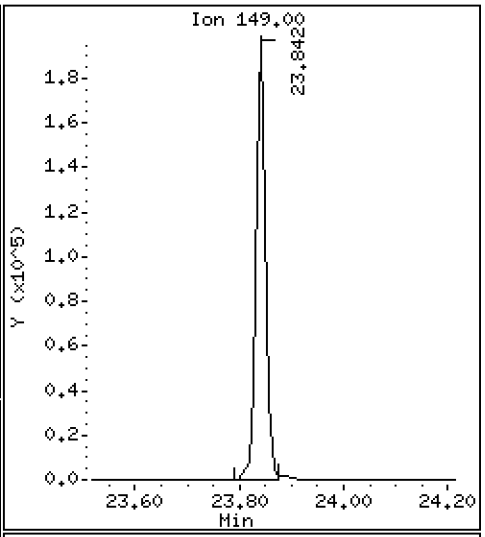
Column phase: ZB-5msi

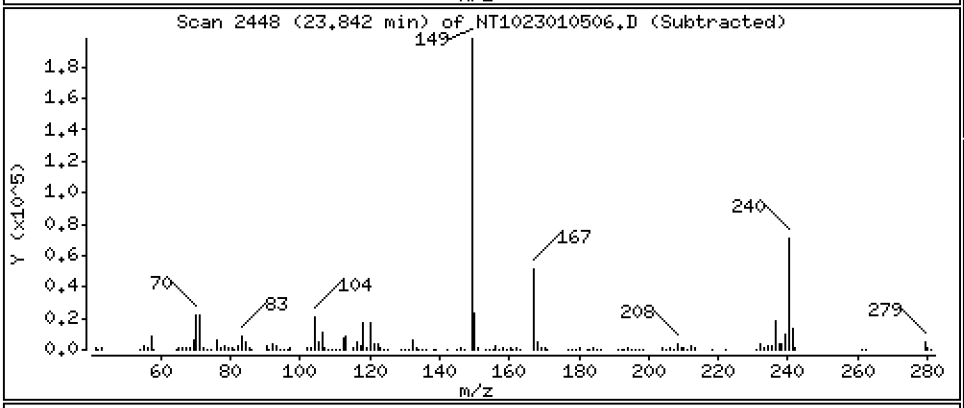
Column diameter: 0.25

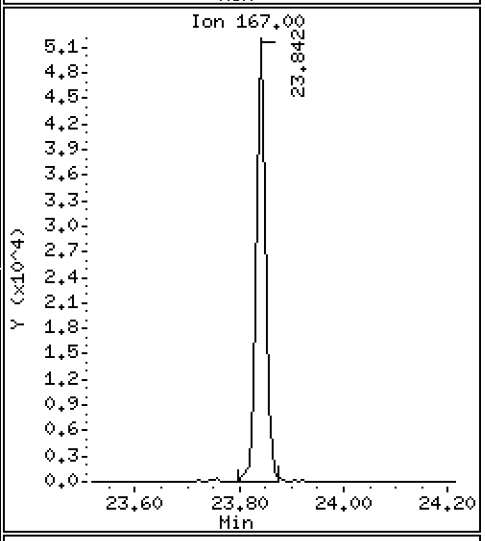
72 bis(2-Ethylhexyl)phthalate

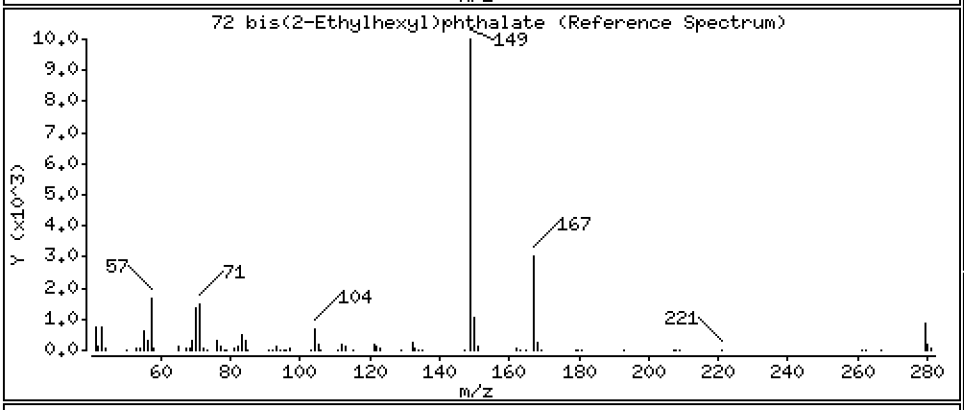
Concentration: 5.984 ug/mL

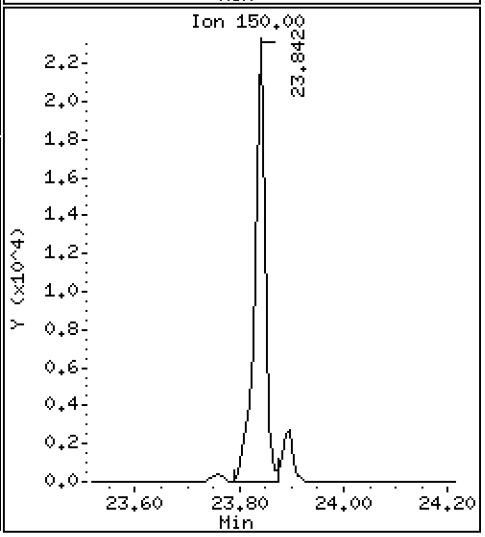


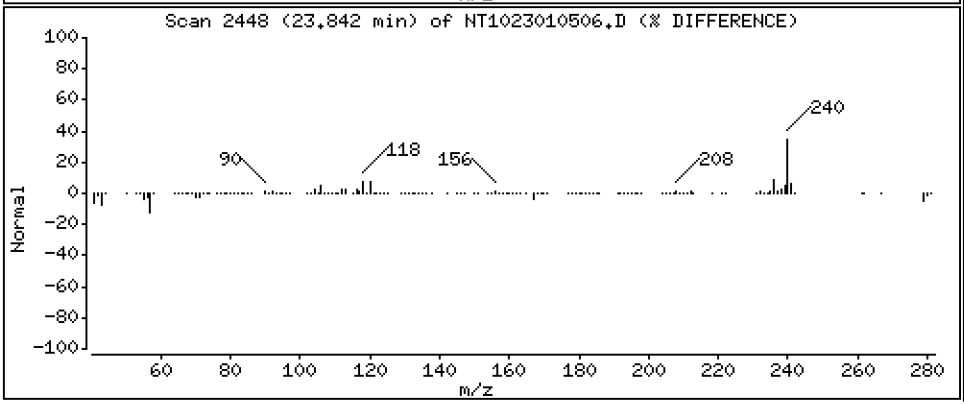












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

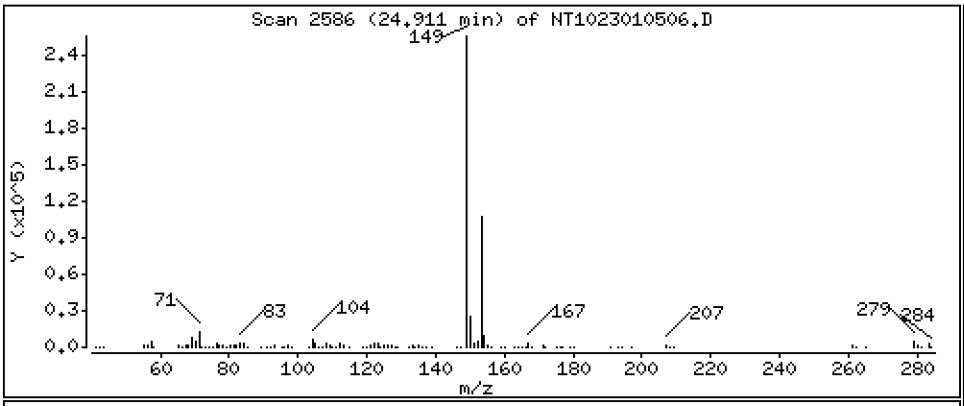
Operator: VTS

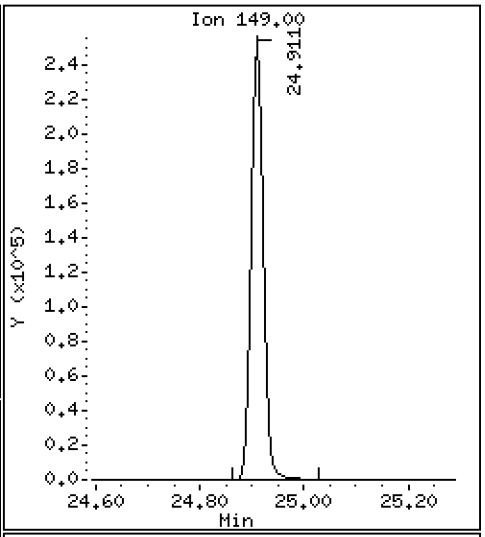
Column phase: ZB-5msi

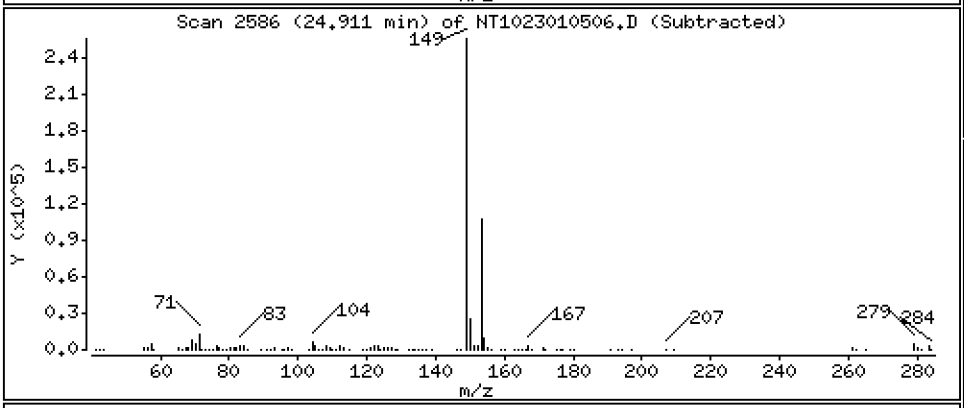
Column diameter: 0.25

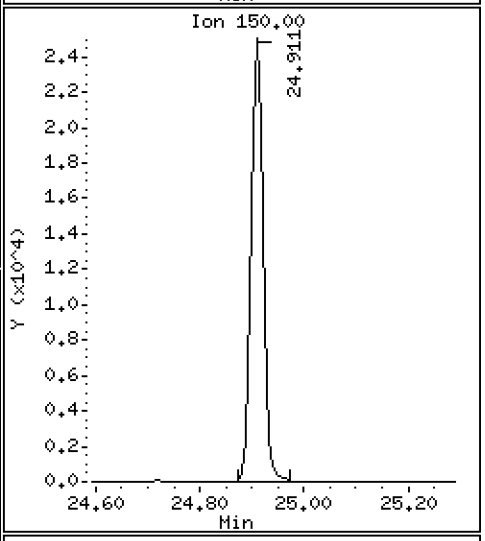
73 Di-n-octylphthalate

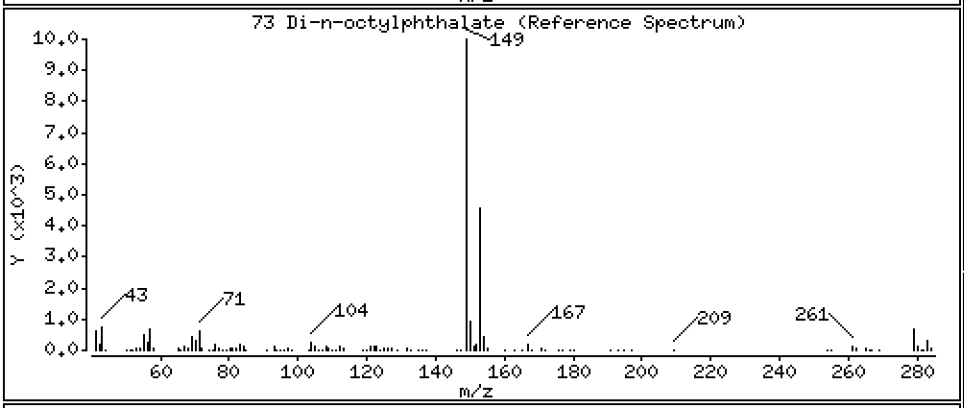
Concentration: 5.622 ug/mL

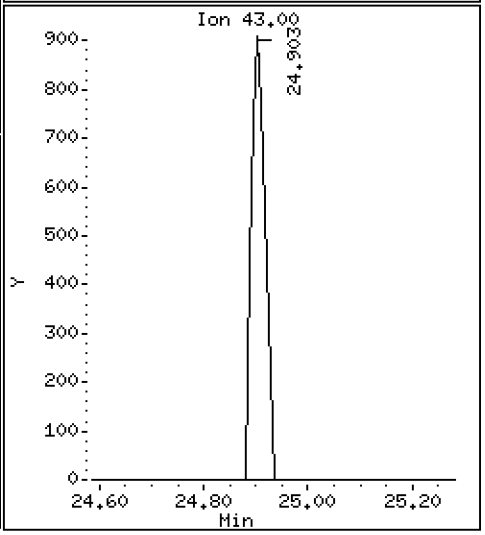


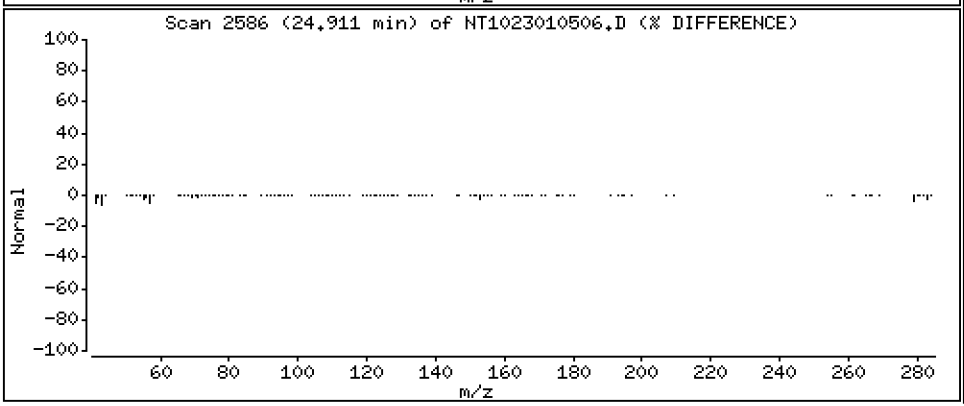












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

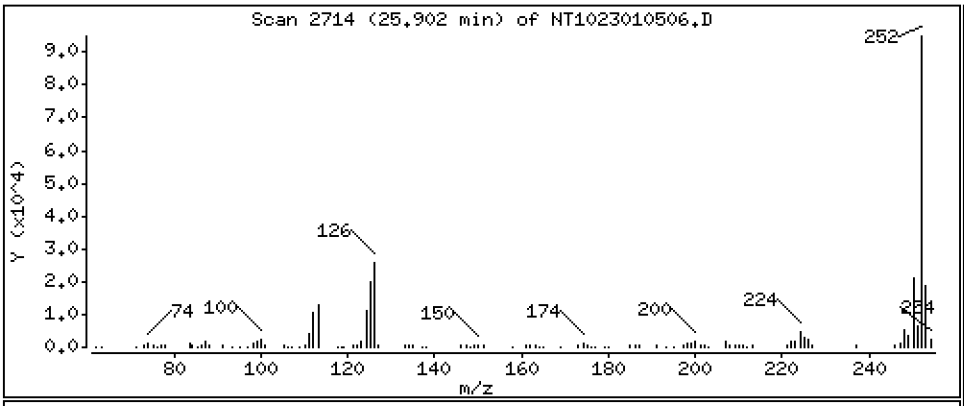
Operator: VTS

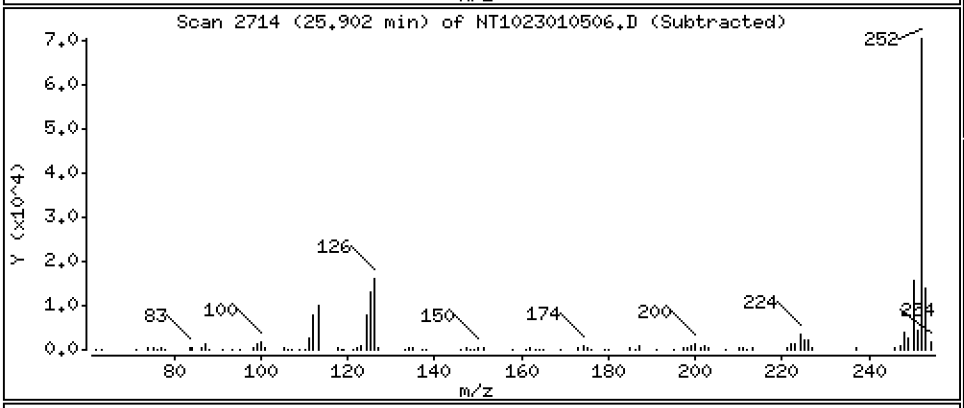
Column phase: ZB-5msi

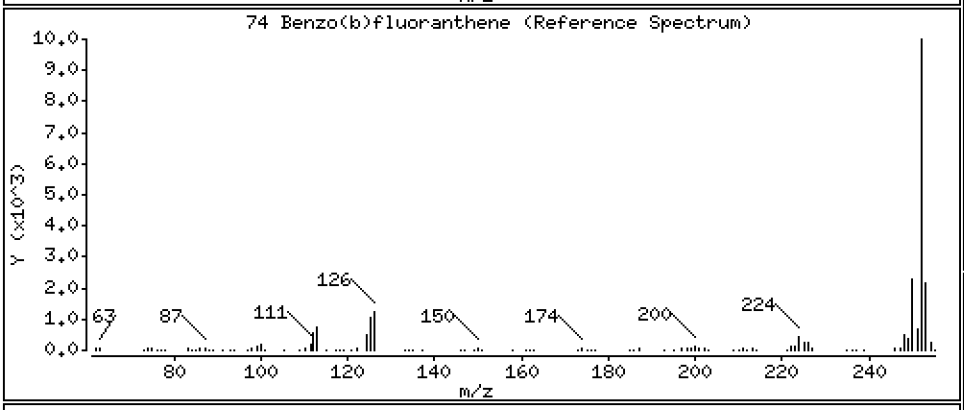
Column diameter: 0.25

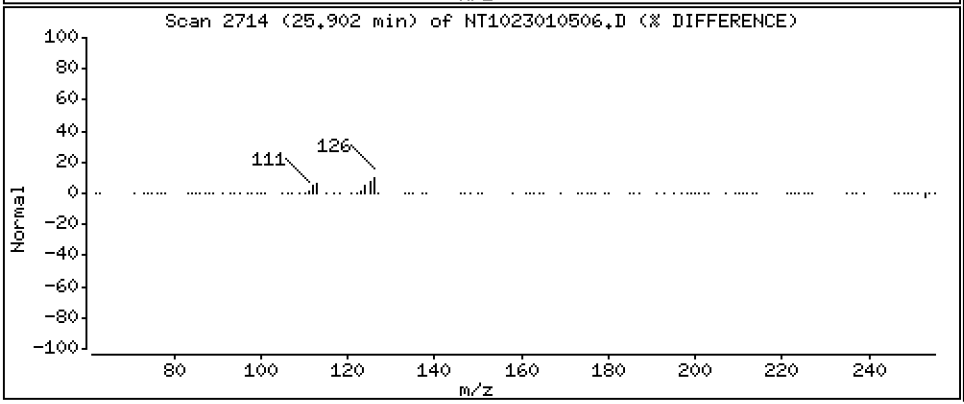
74 Benzo(b)fluoranthene

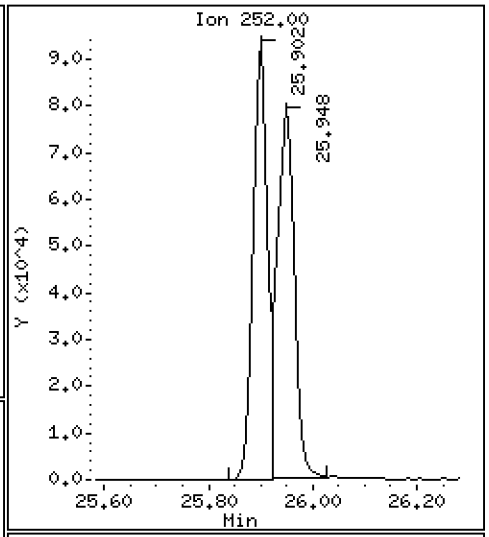
Concentration: 6.171 ug/mL

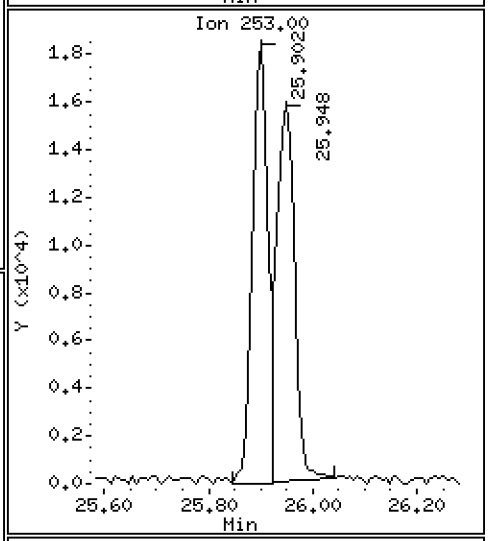


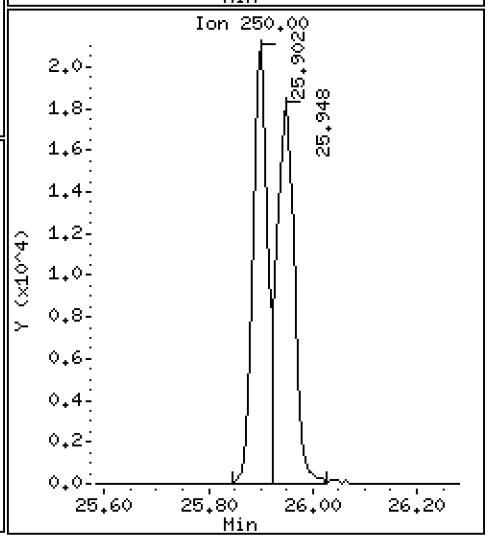












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

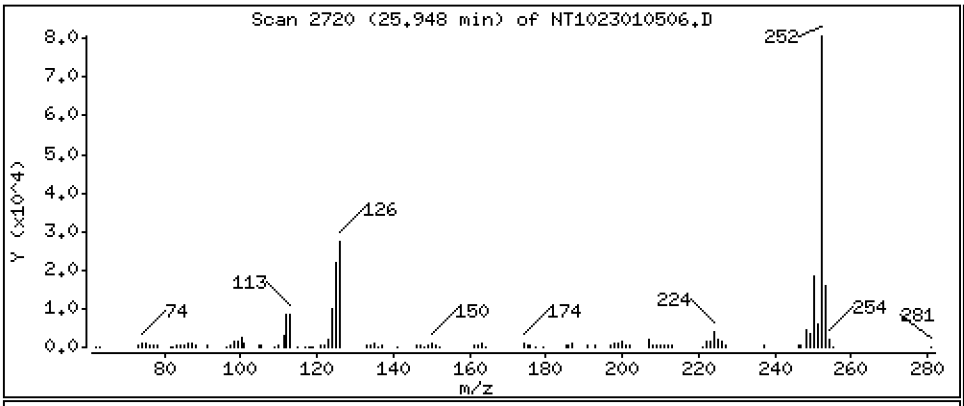
Operator: VTS

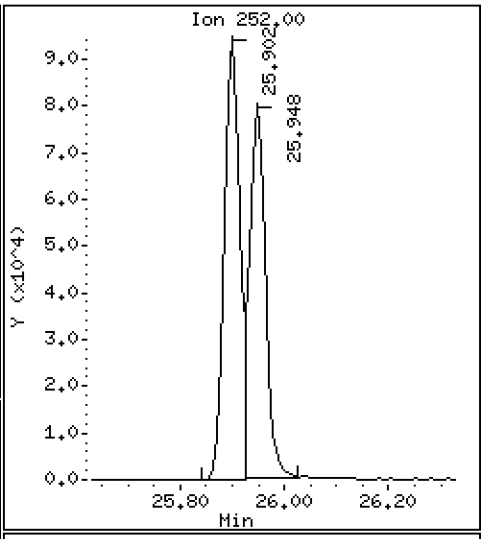
Column phase: ZB-5msi

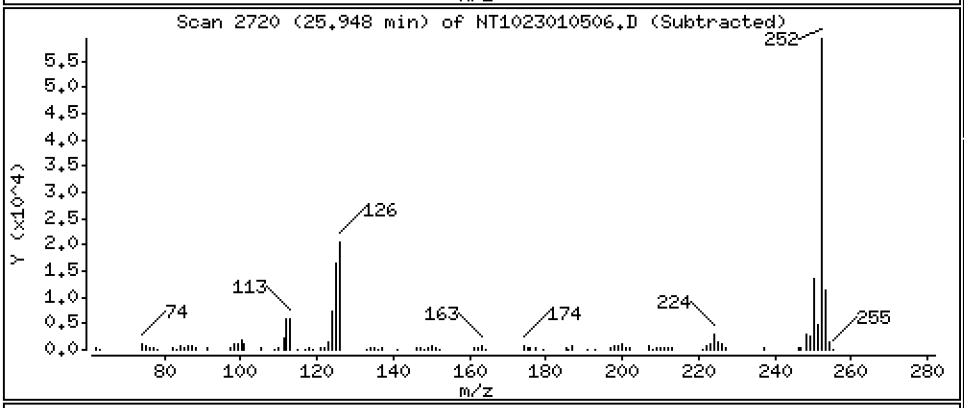
Column diameter: 0.25

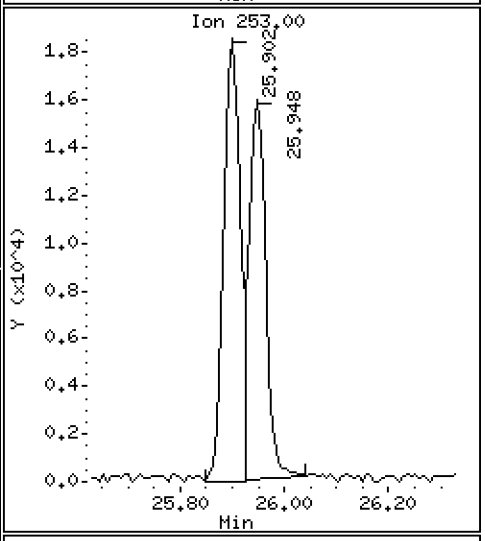
75 Benzo(k)fluoranthene

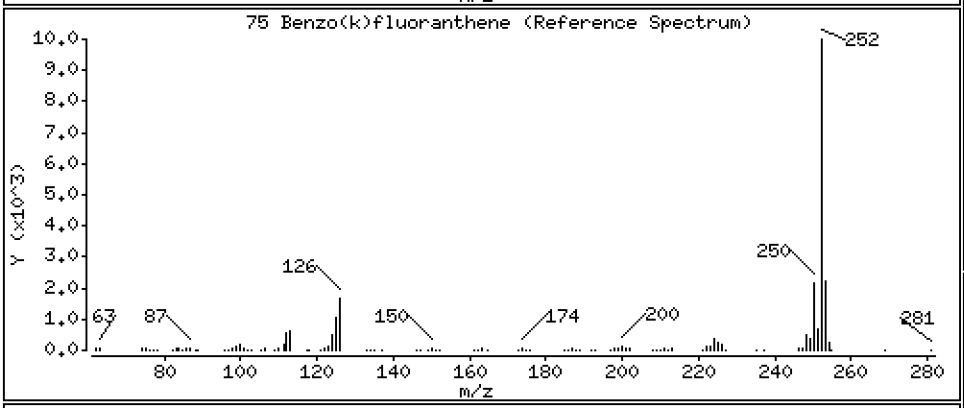
Concentration: 5.930 ug/mL

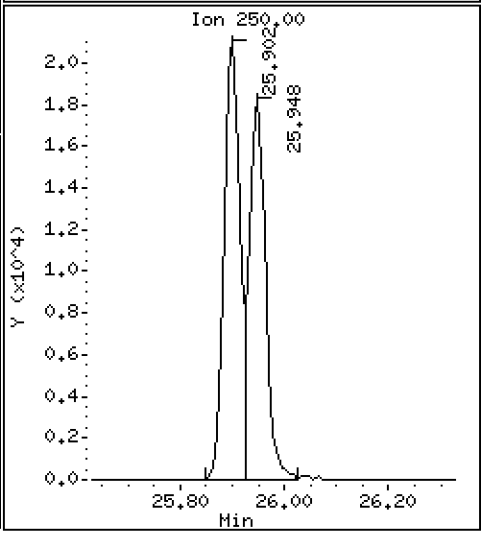


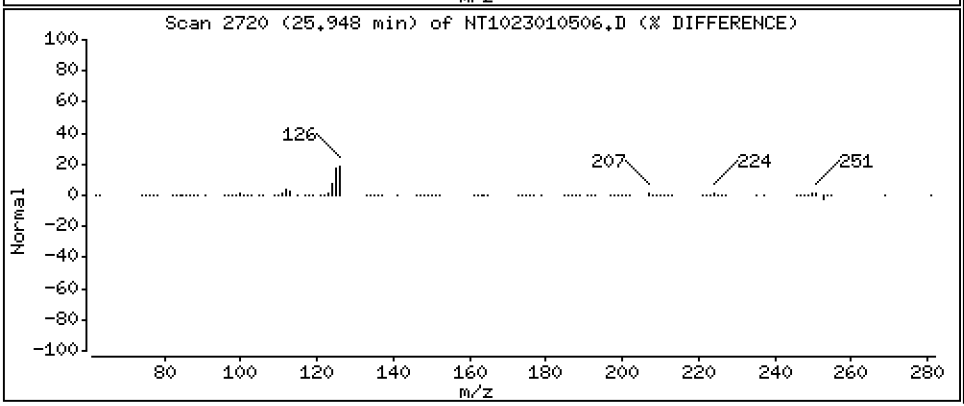












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

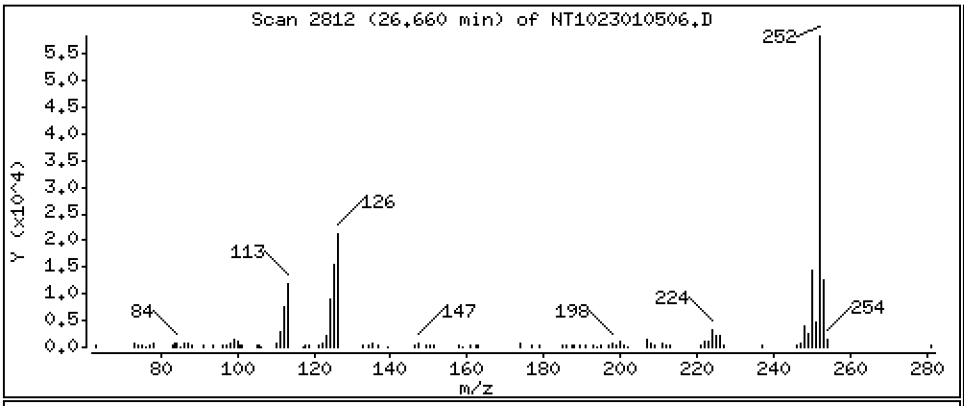
Operator: VTS

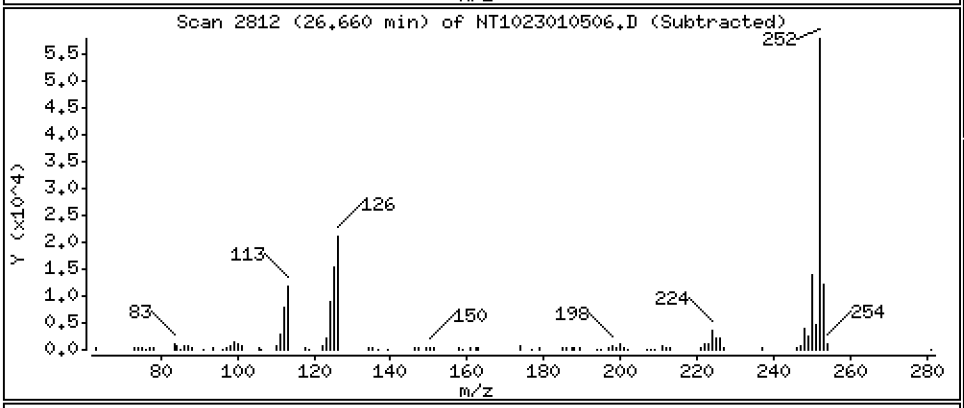
Column phase: ZB-5msi

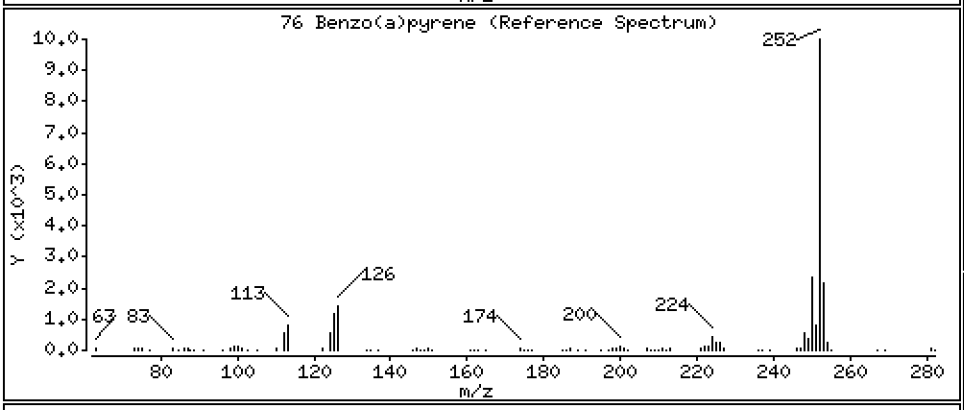
Column diameter: 0.25

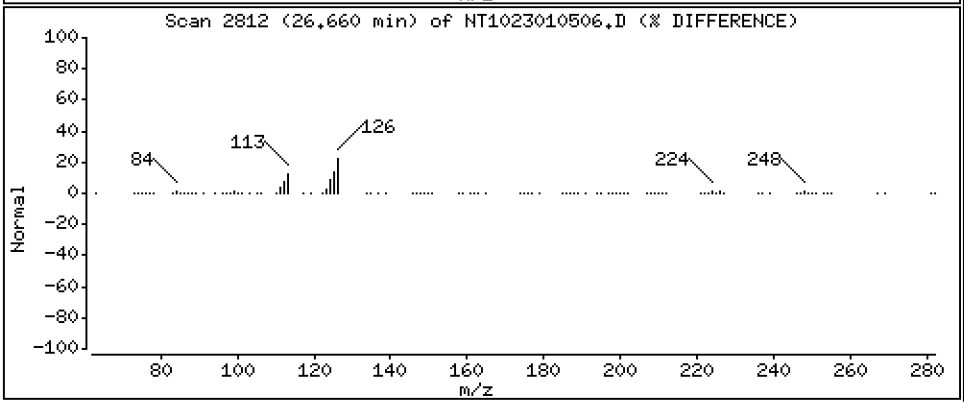
76 Benzo(a)pyrene

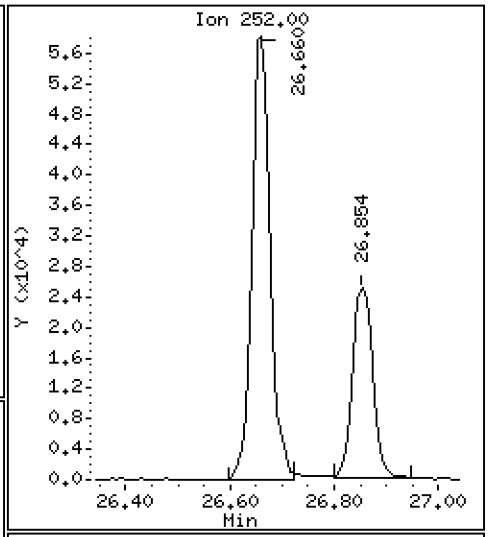
Concentration: 5.427 ug/mL

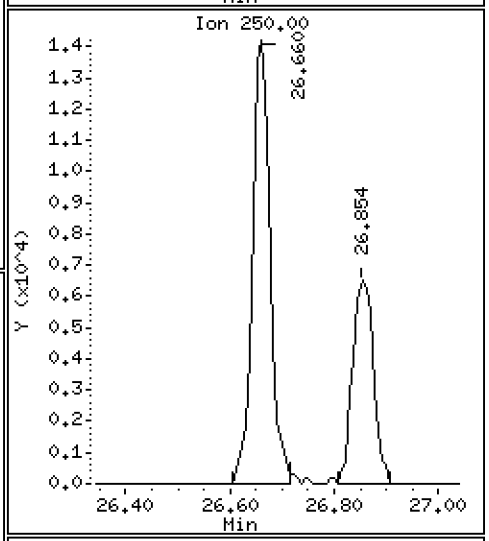


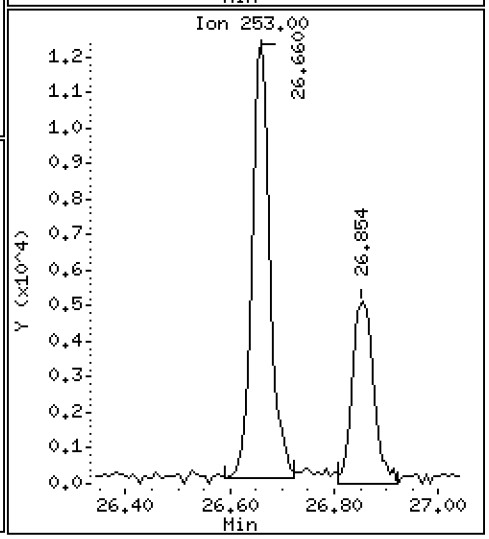












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

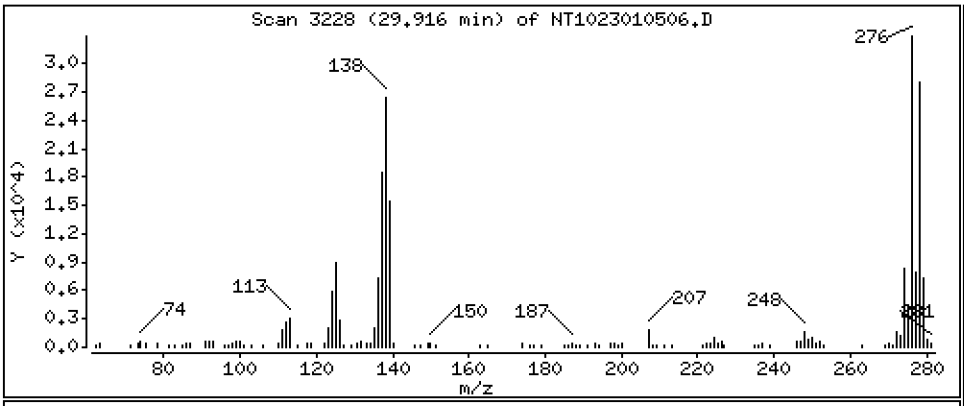
Operator: VTS

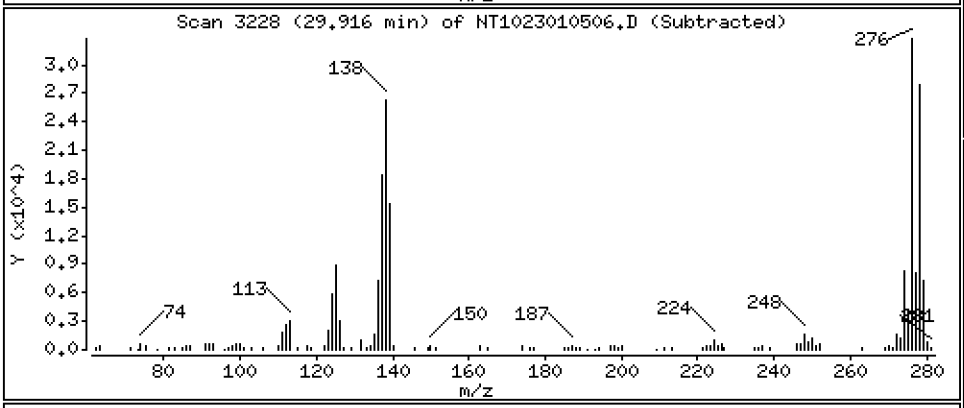
Column phase: ZB-5msi

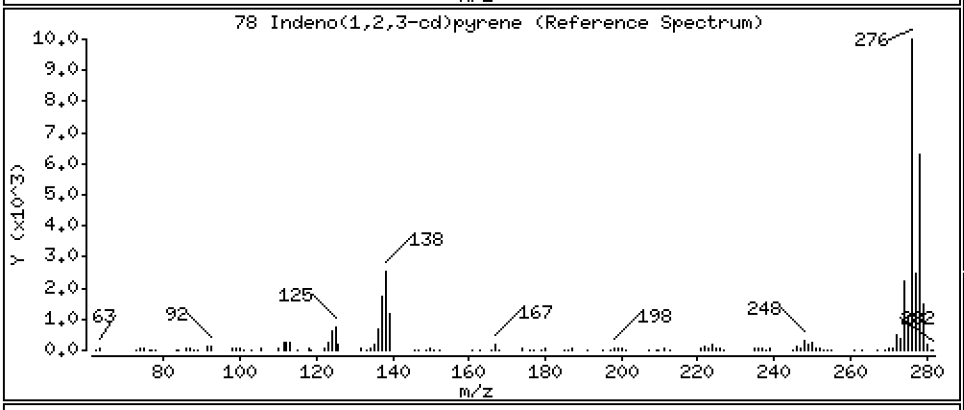
Column diameter: 0.25

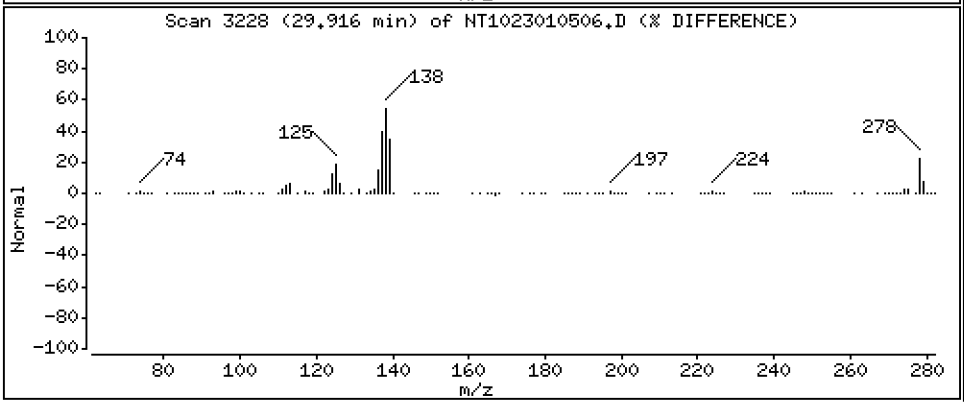
78 Indeno(1,2,3-cd)pyrene

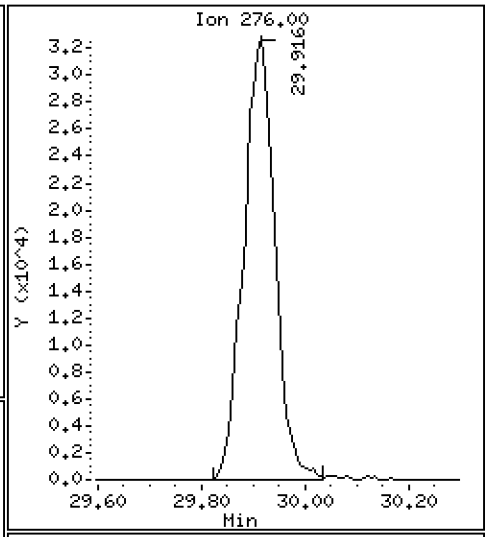
Concentration: 5.801 ug/mL

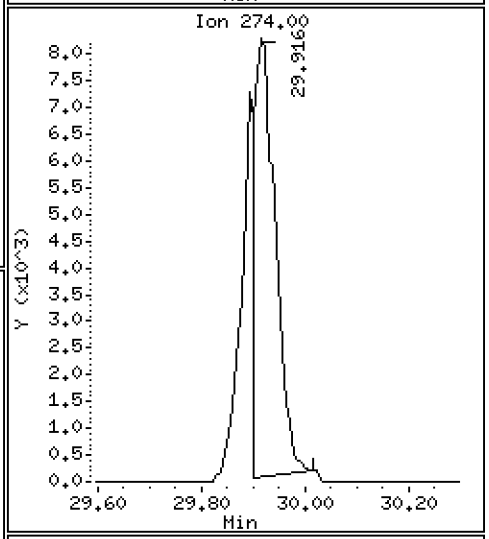


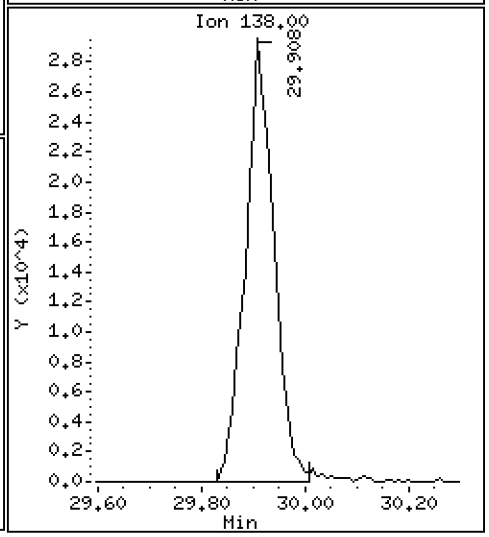












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

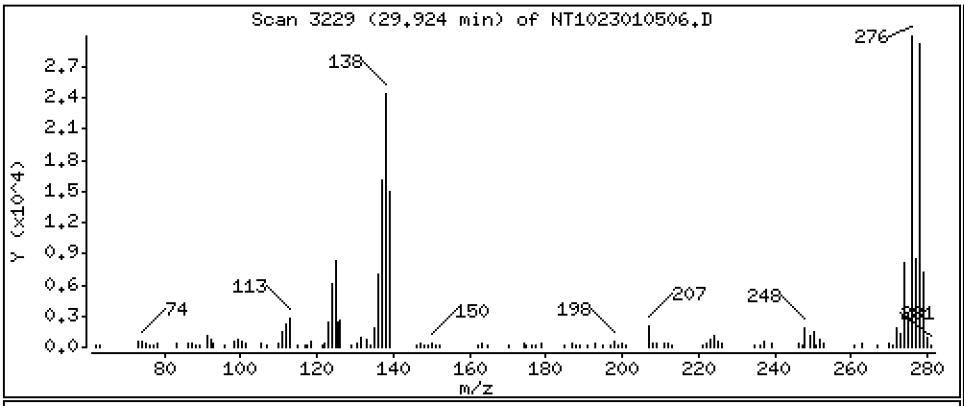
Operator: VTS

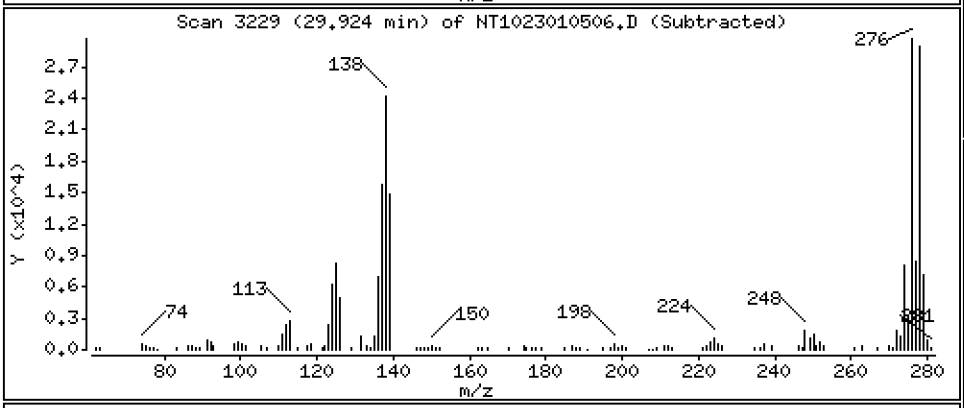
Column phase: ZB-5msi

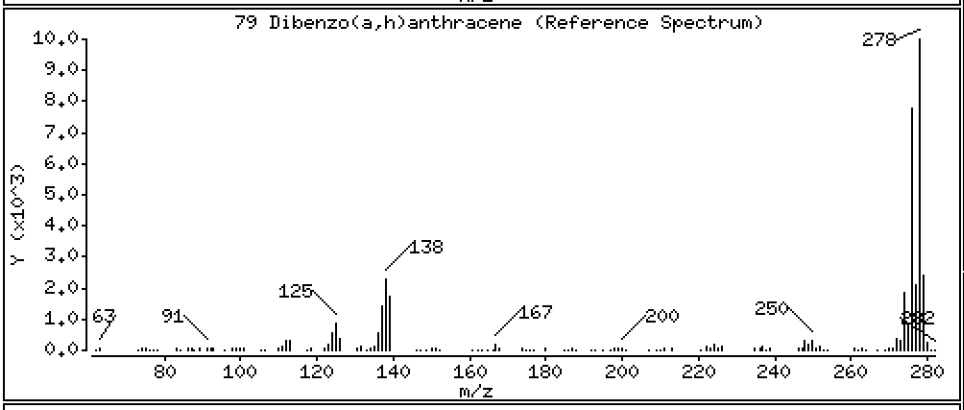
Column diameter: 0.25

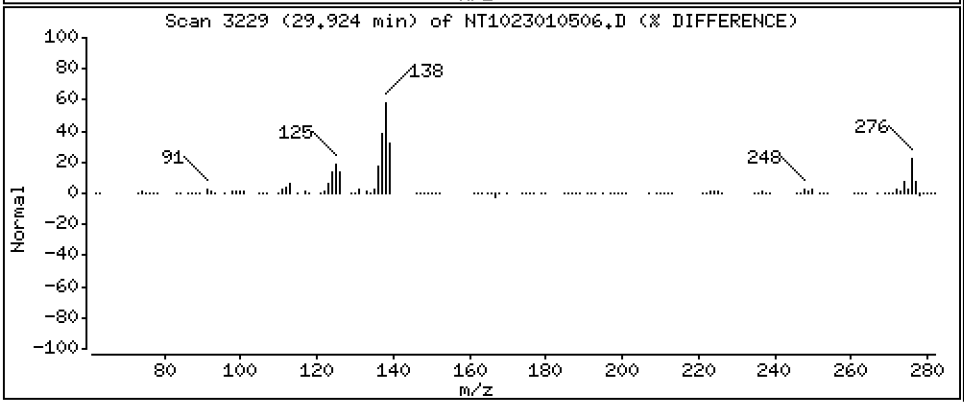
79 Dibenzo(a,h)anthracene

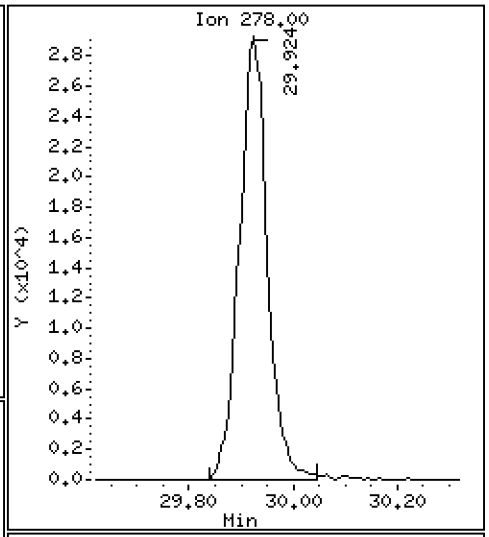
Concentration: 5.964 ug/mL

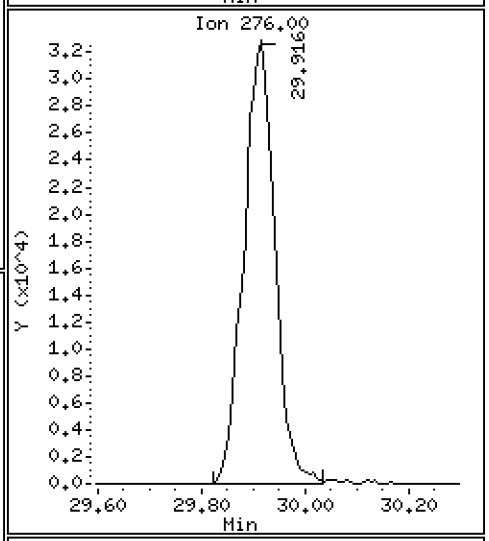


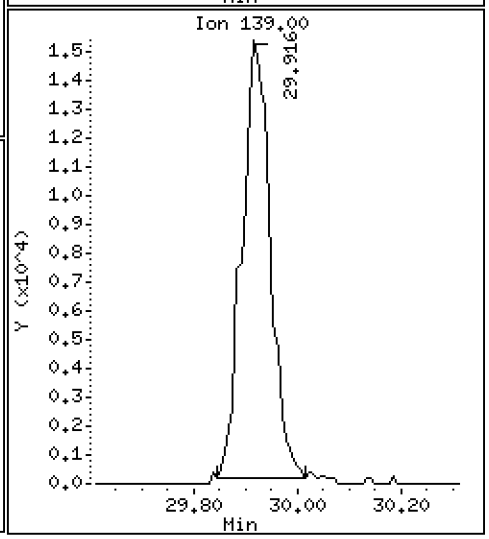












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

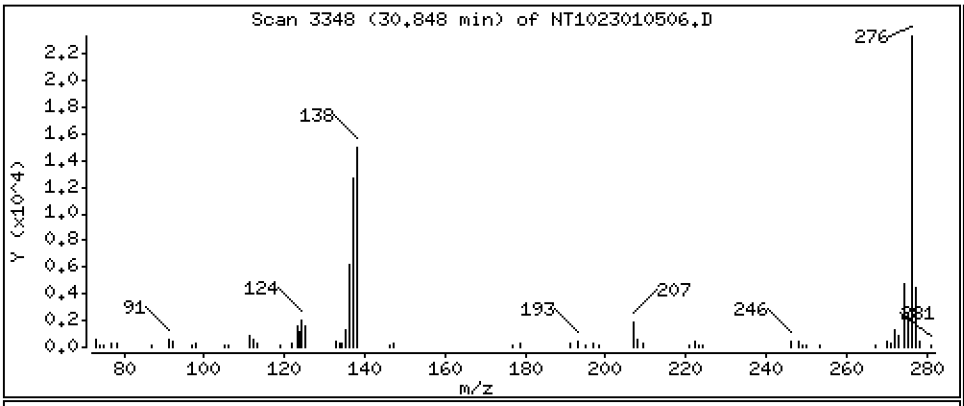
Operator: VTS

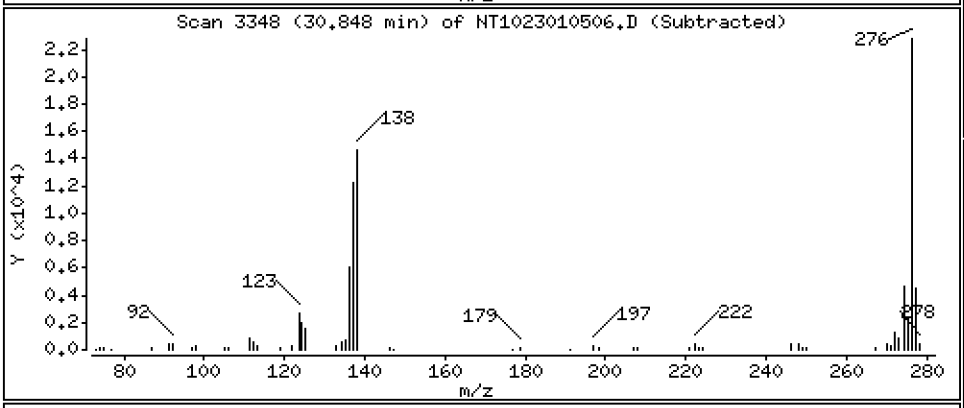
Column phase: ZB-5msi

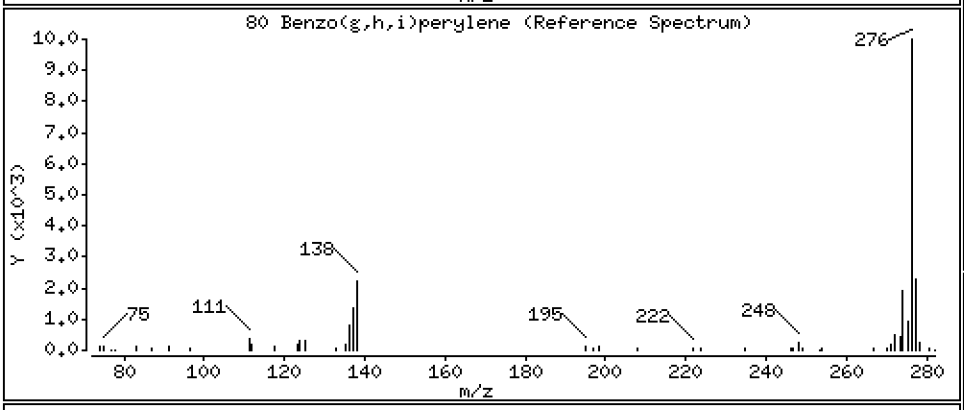
Column diameter: 0.25

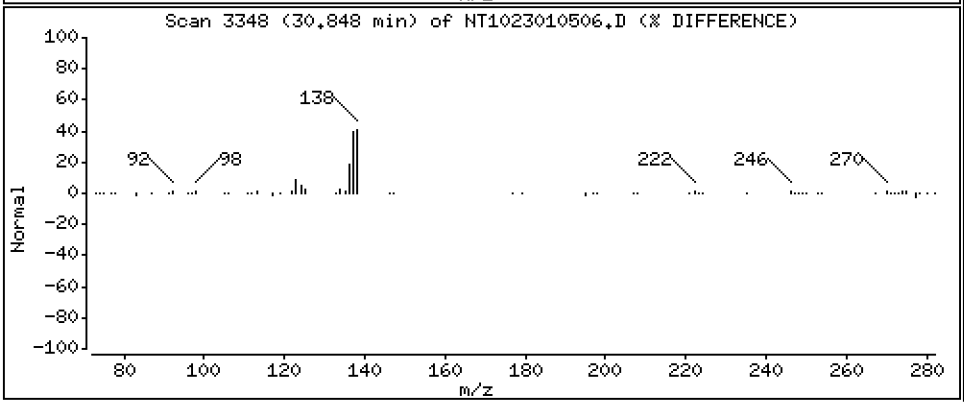
80 Benzo(g,h,i)perylene

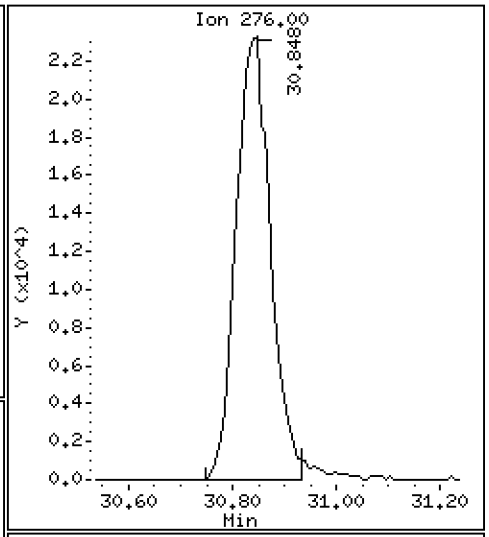
Concentration: 5.538 ug/mL

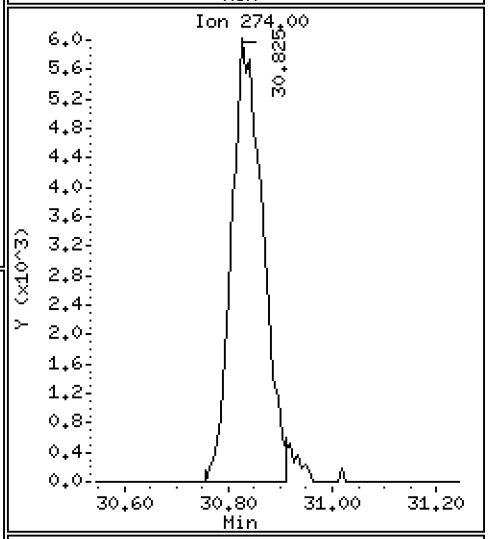


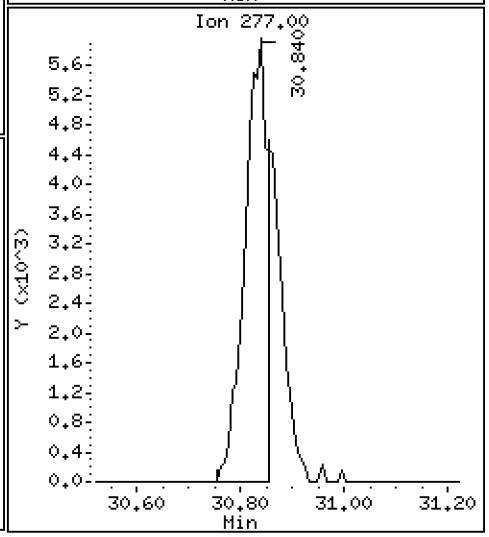












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

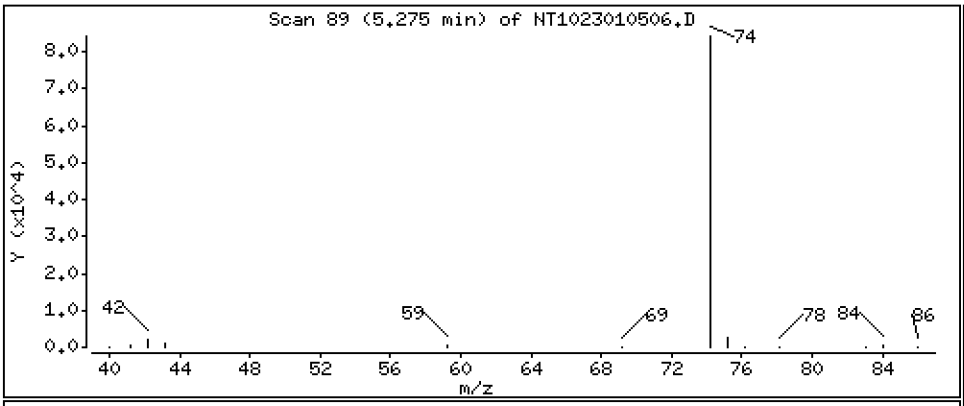
Operator: VTS

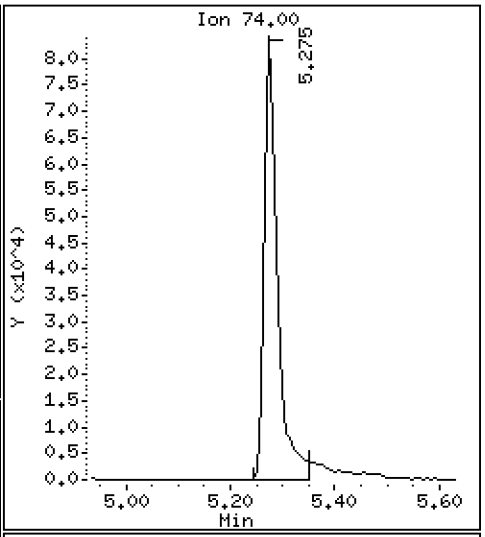
Column phase: ZB-5msi

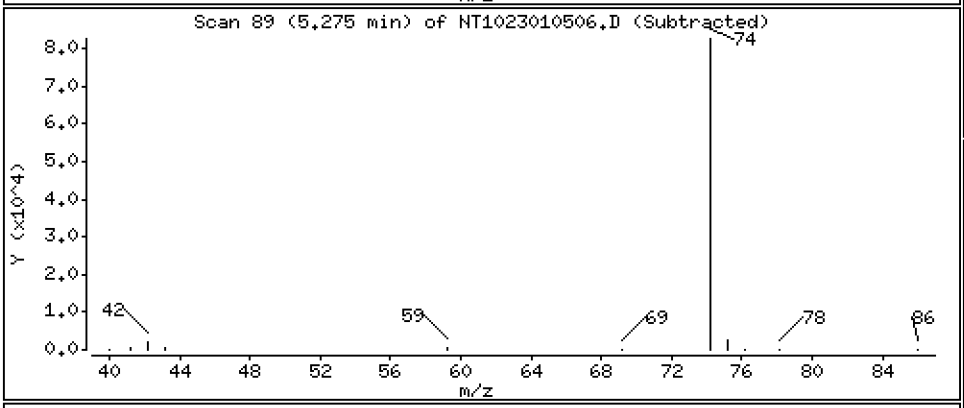
Column diameter: 0.25

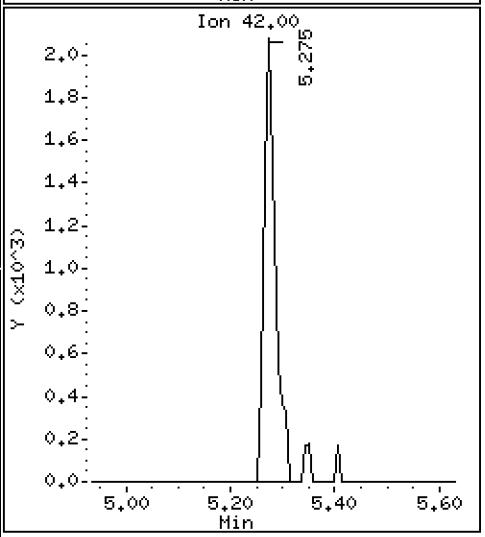
90 N-Nitrosodimethylamine

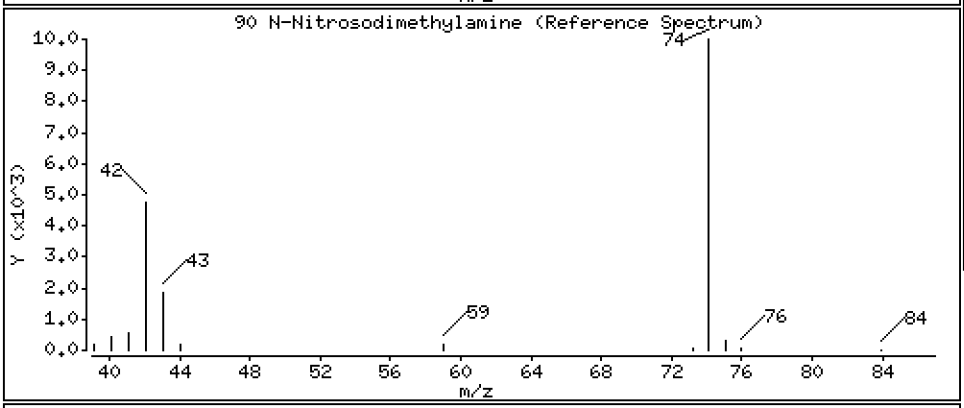
Concentration: 11.43 ug/mL

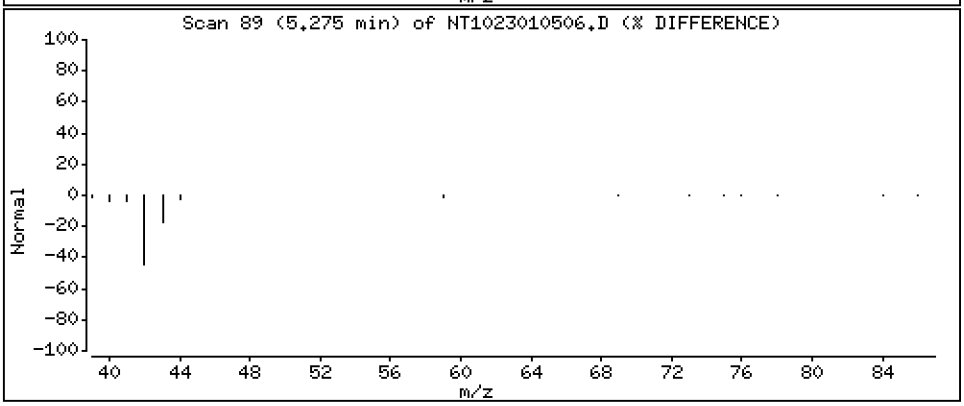












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

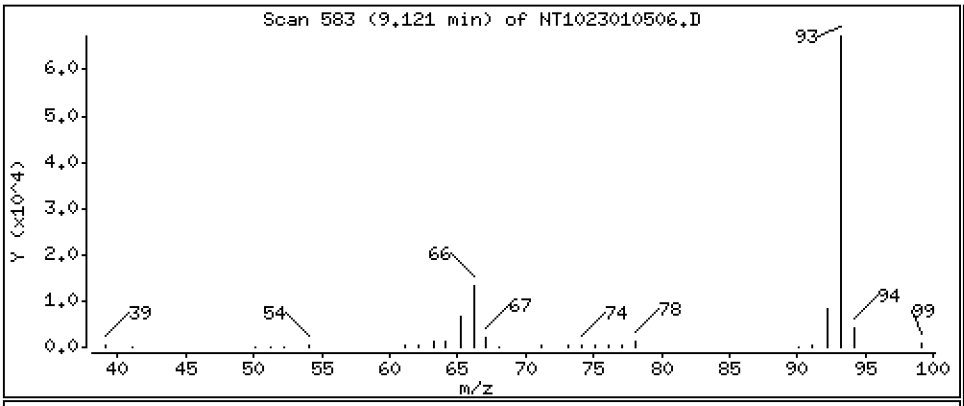
Operator: VTS

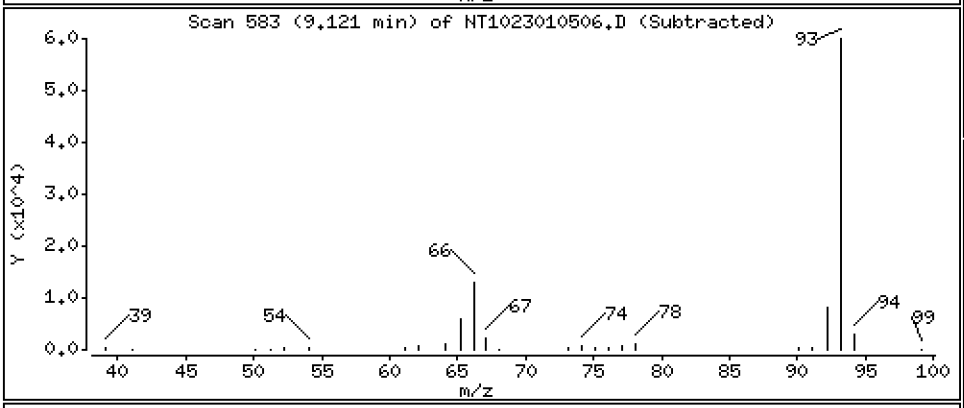
Column phase: ZB-5msi

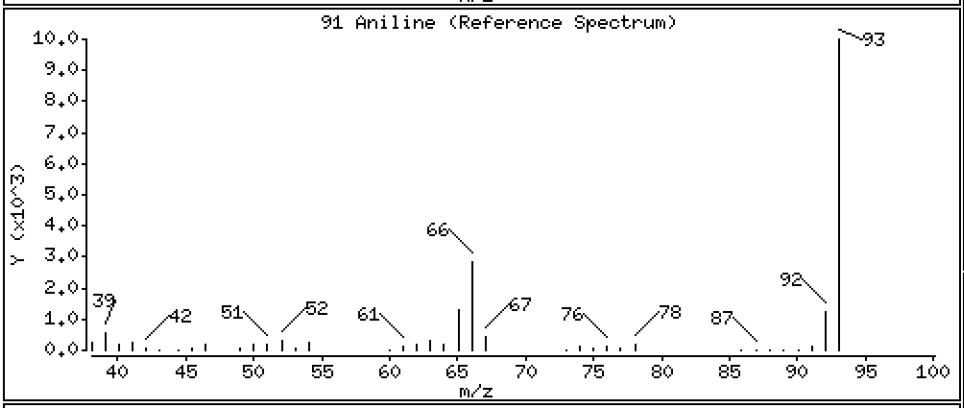
Column diameter: 0.25

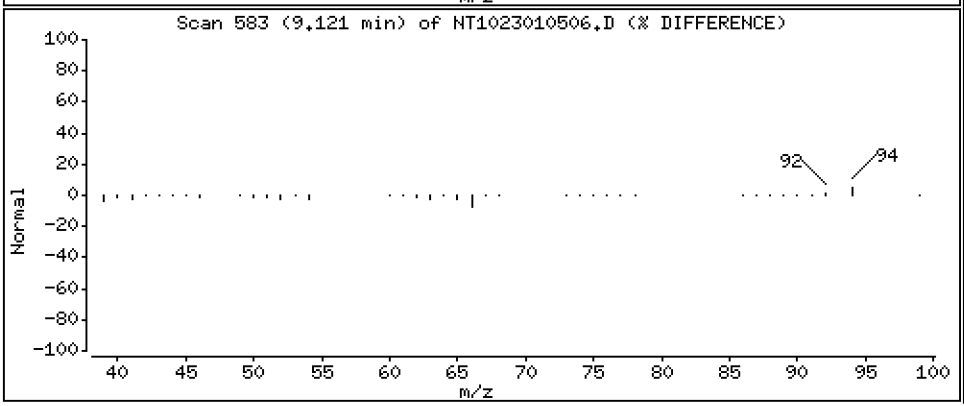
91 Aniline

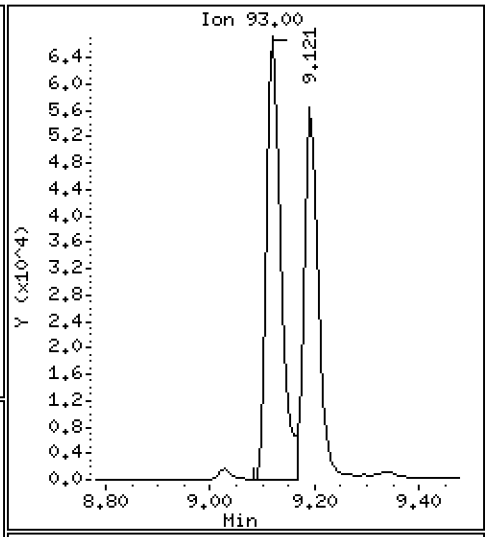
Concentration: 5.250 ug/mL

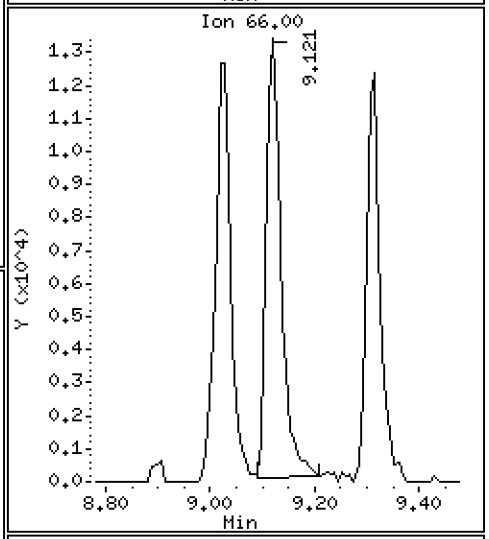


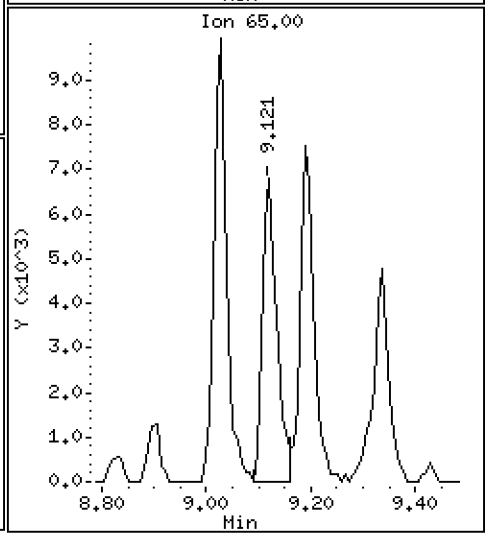












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Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

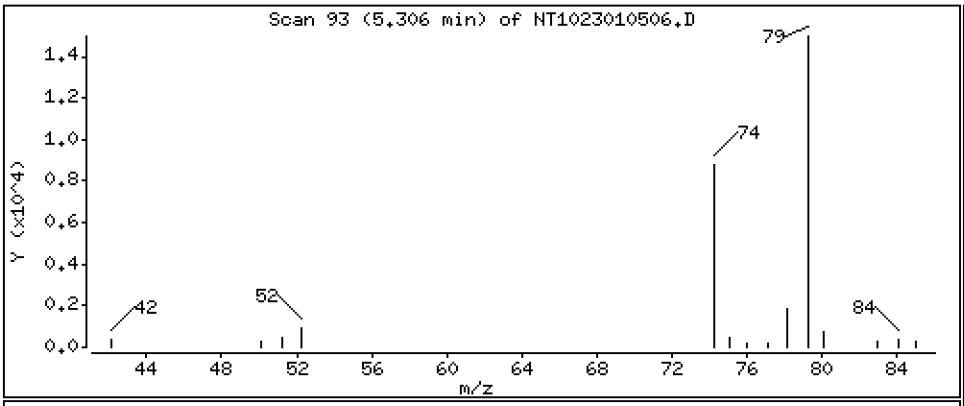
Operator: VTS

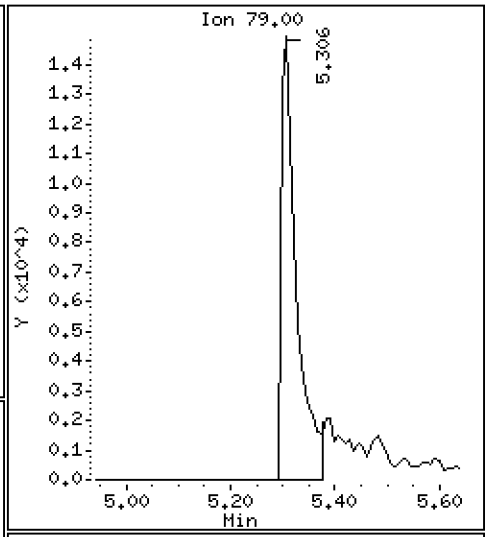
Column phase: ZB-5msi

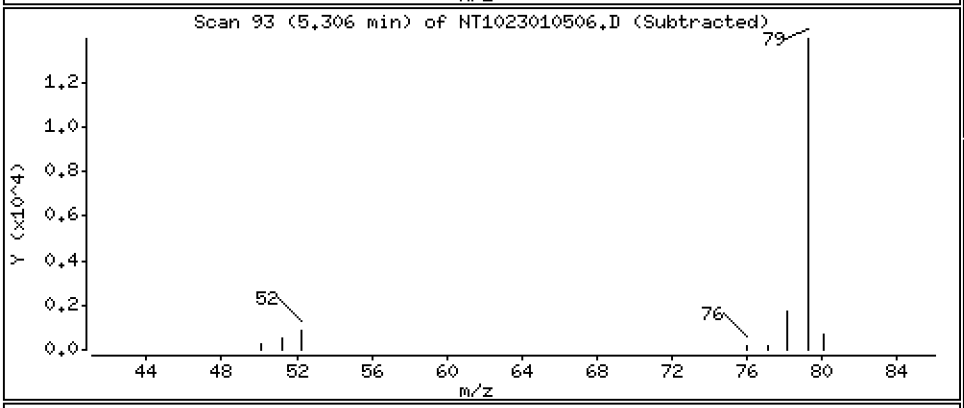
Column diameter: 0.25

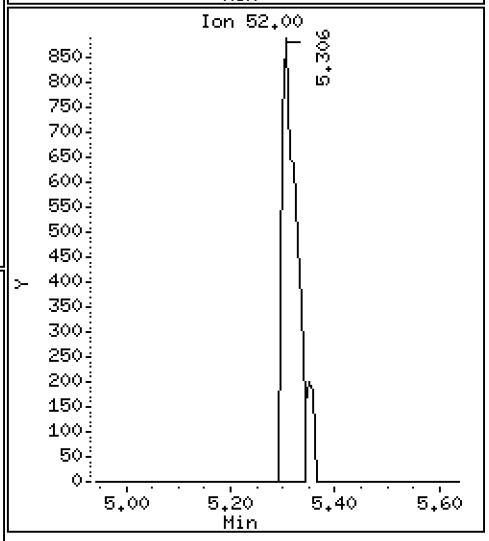
103 Pyridine

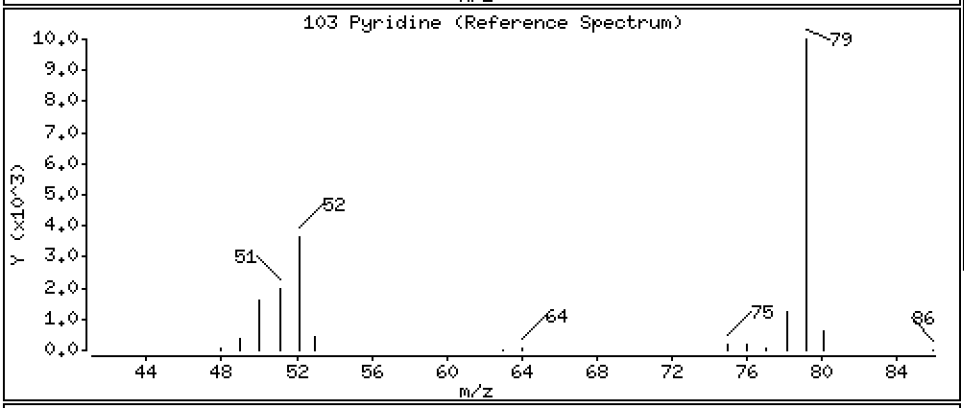
Concentration: 0.8790 ug/mL

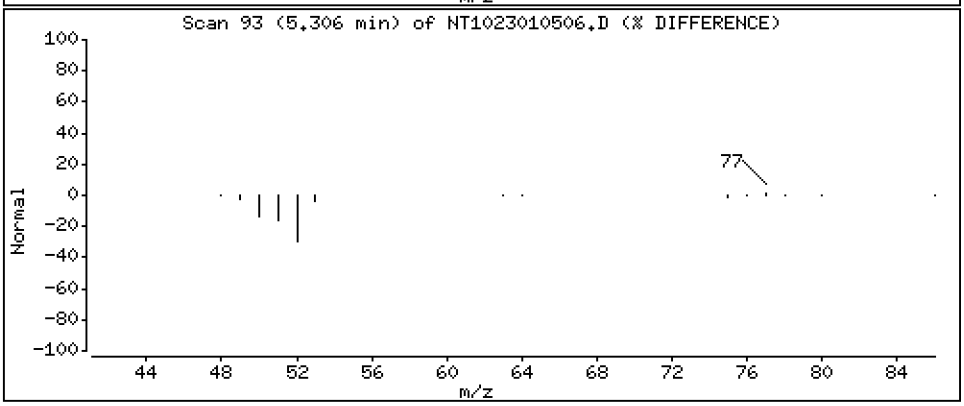












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

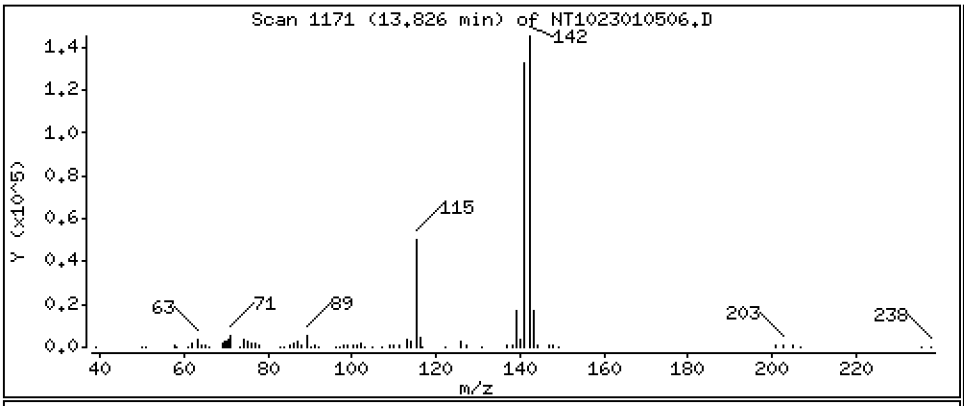
Operator: VTS

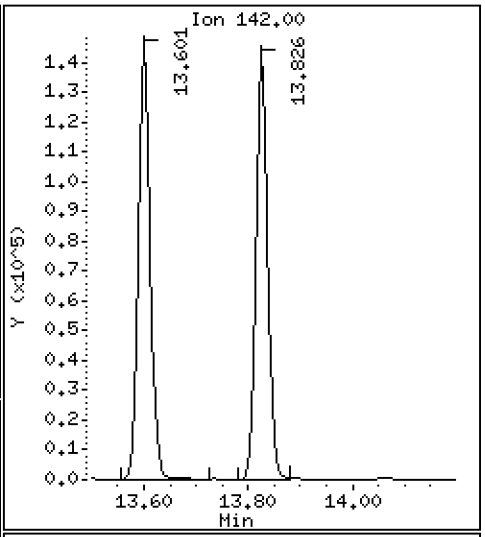
Column phase: ZB-5msi

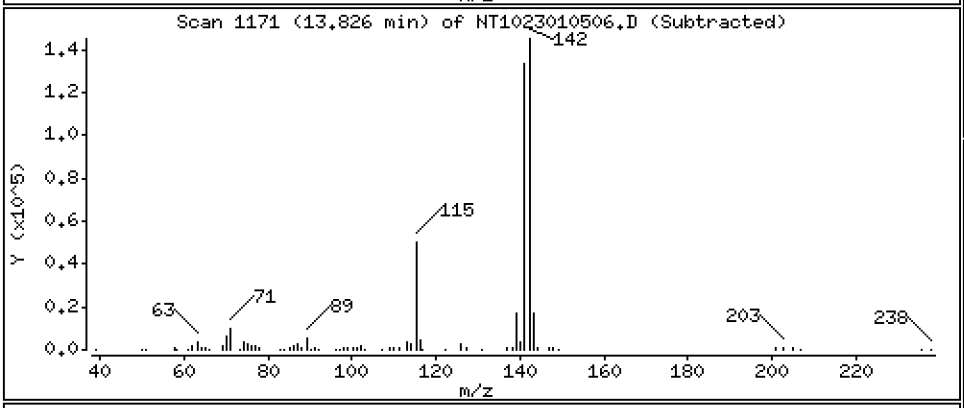
Column diameter: 0.25

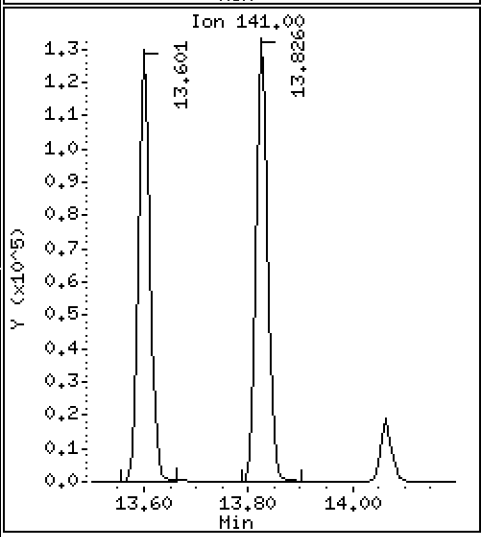
105 1-methylnaphthalene

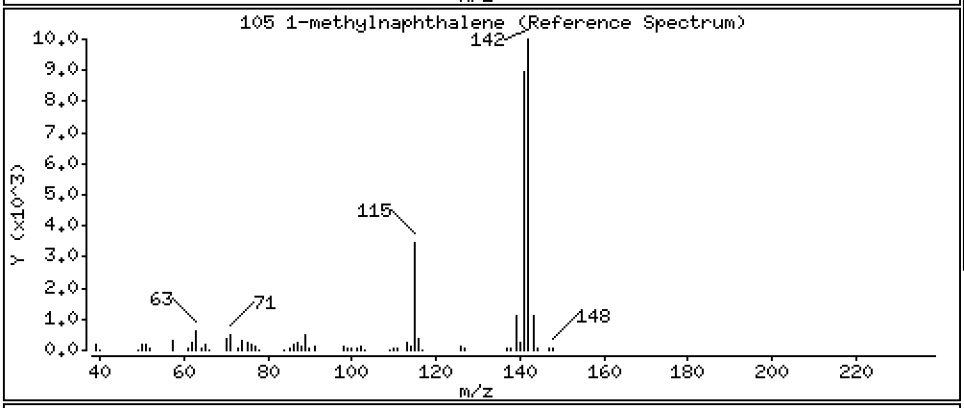
Concentration: 4.983 ug/mL

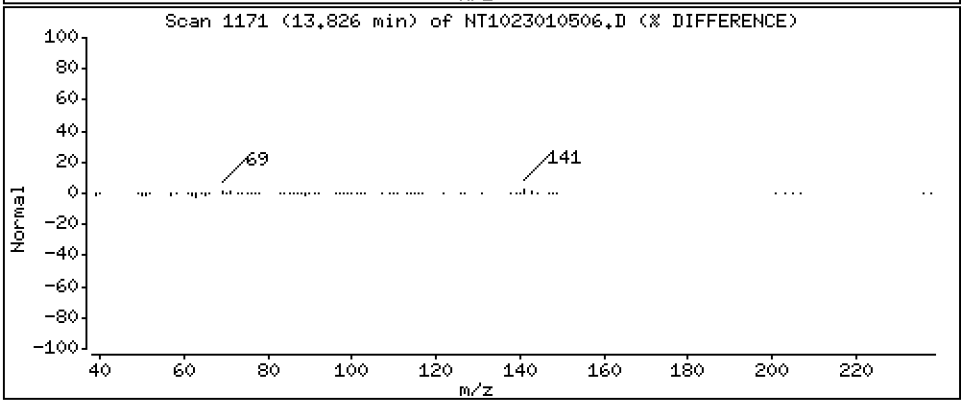












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

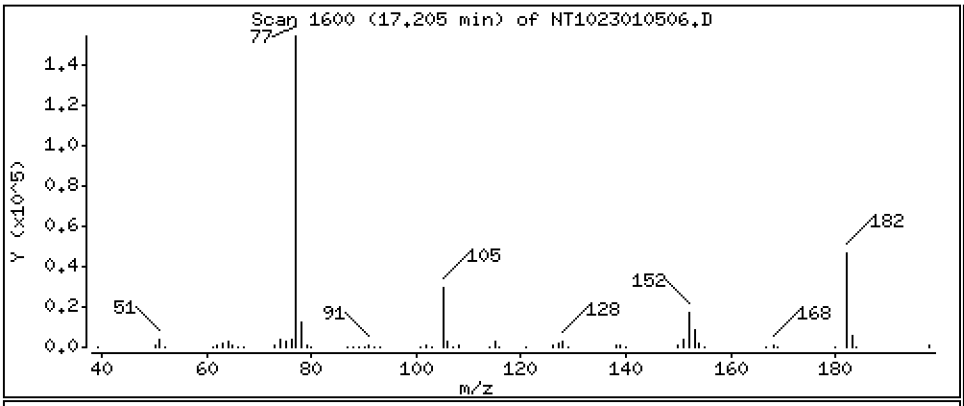
Operator: VTS

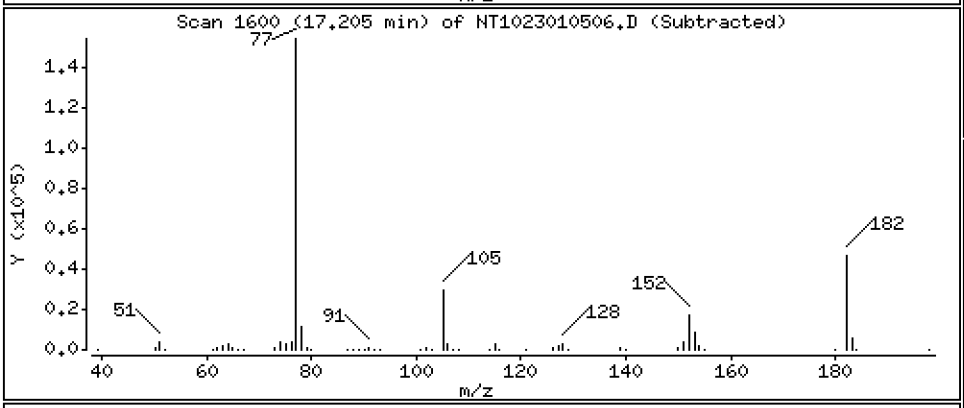
Column phase: ZB-5msi

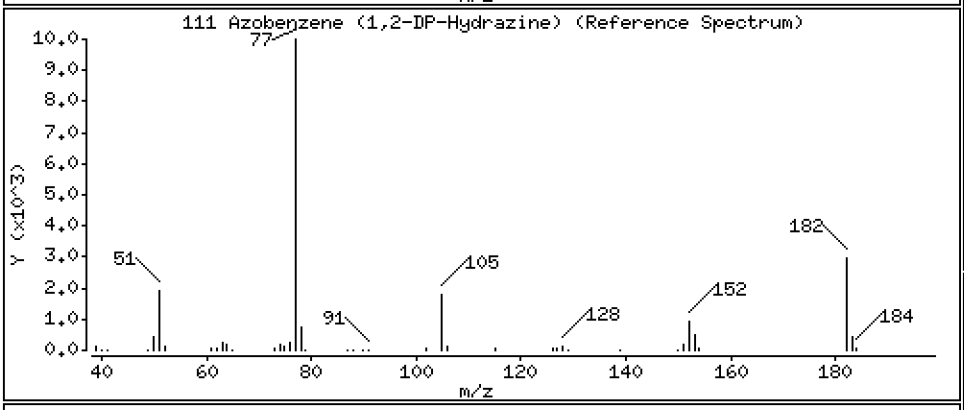
Column diameter: 0.25

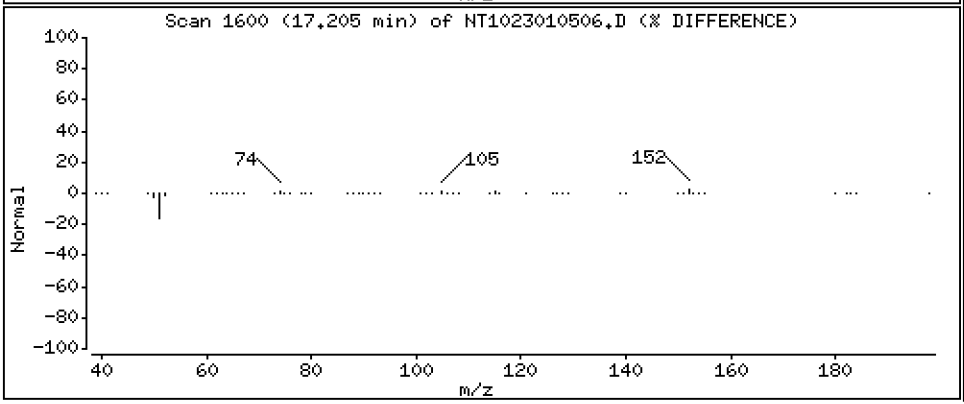
111 Azobenzene (1,2-DP-Hydrazine)

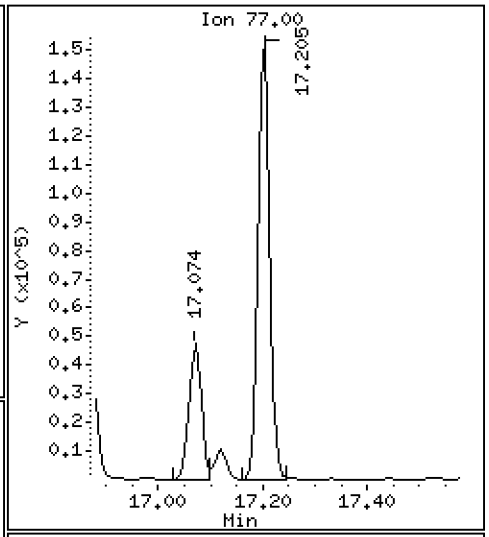
Concentration: 5.266 ug/mL

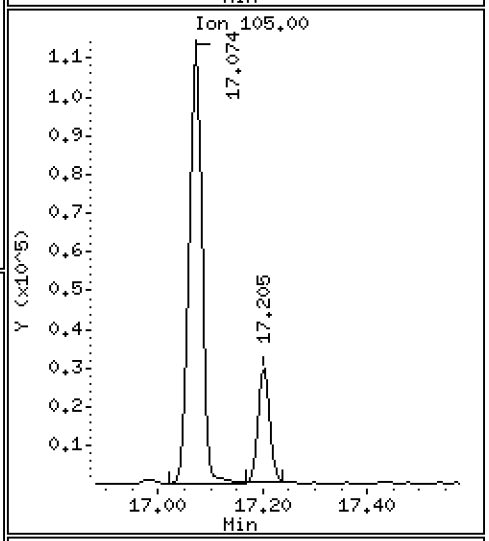


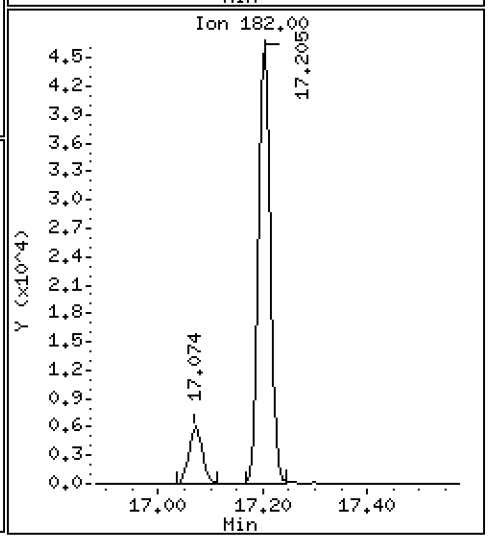












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

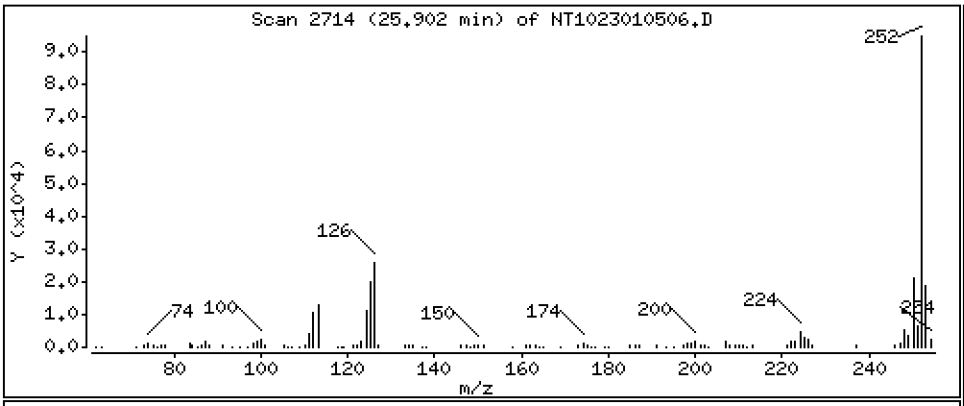
Operator: VTS

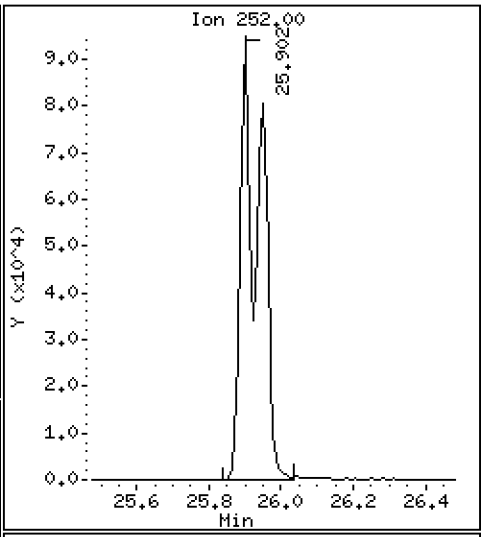
Column phase: ZB-5msi

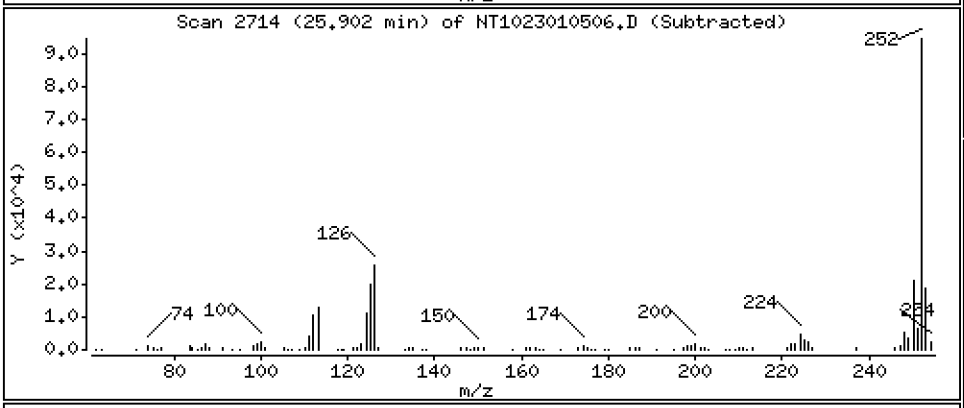
Column diameter: 0.25

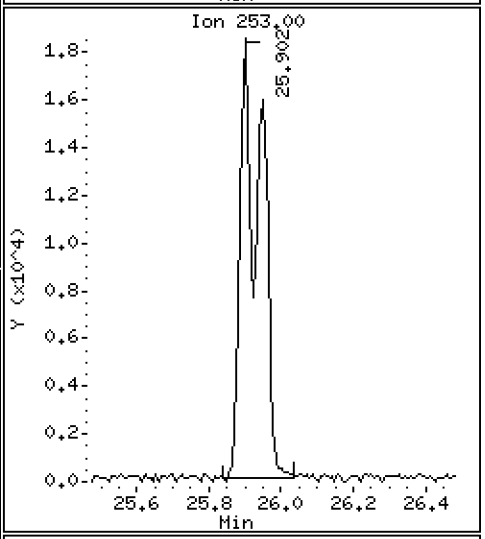
187 Total Benzofluoranthenes

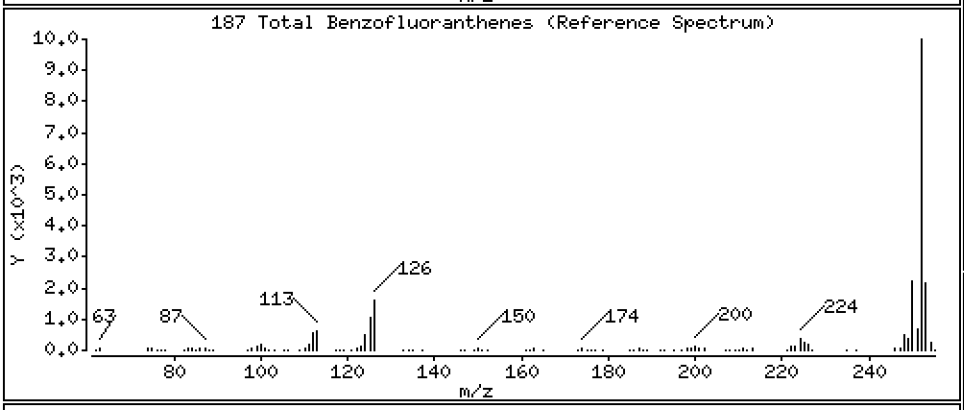
Concentration: 12.18 ug/mL

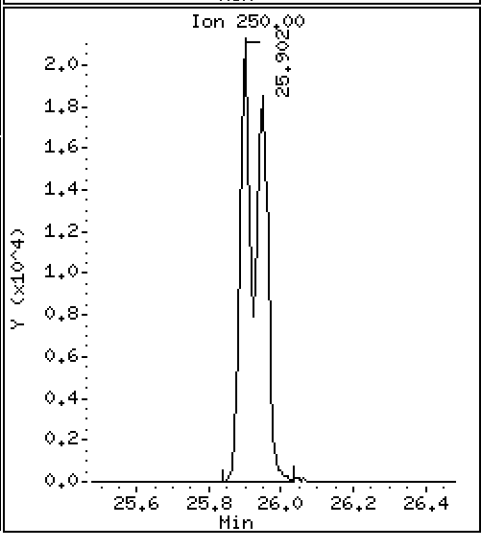


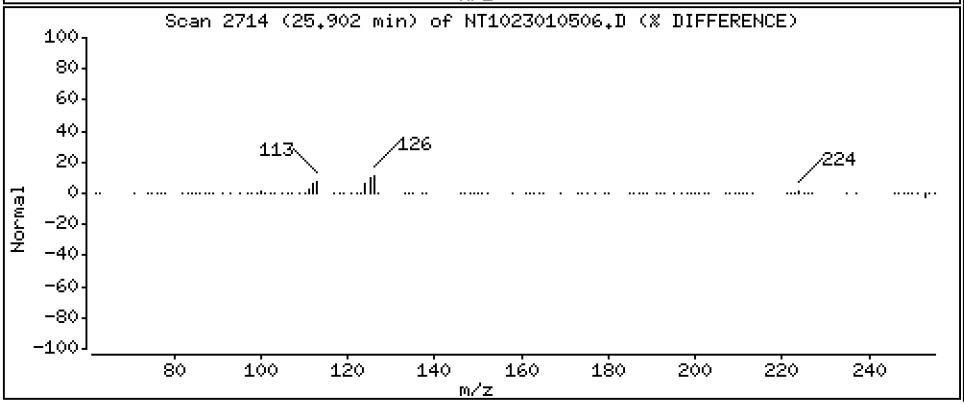












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D

Date : 05-JAN-2023 16:35

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-BSD1

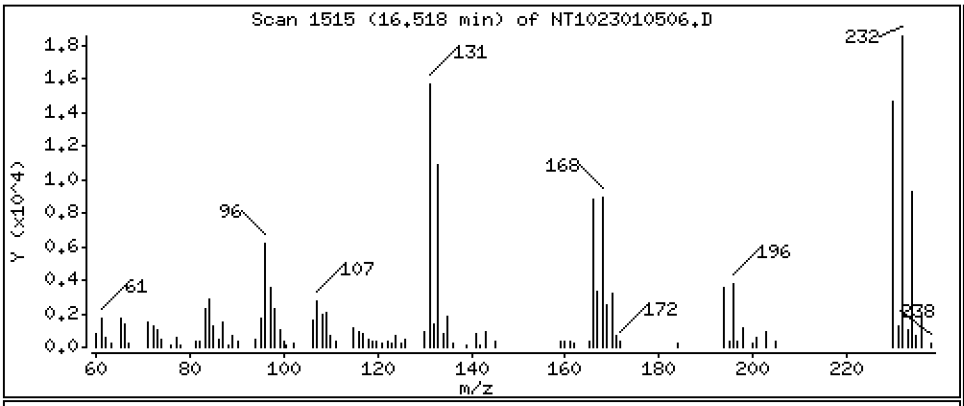
Operator: VTS

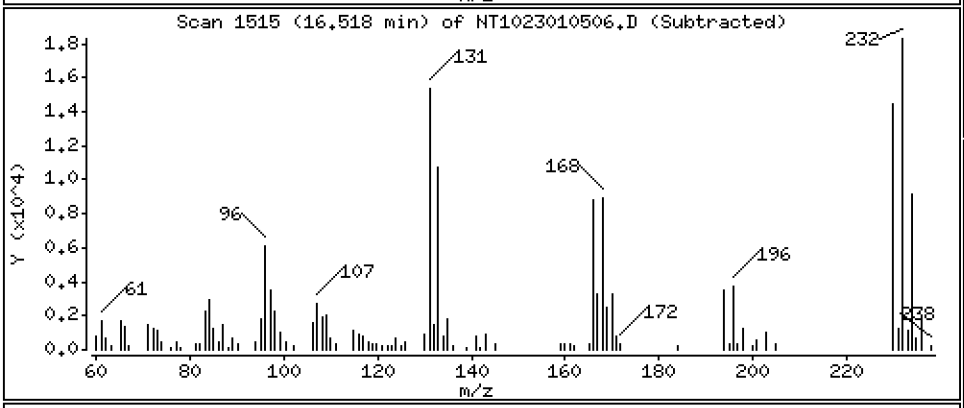
Column phase: ZB-5msi

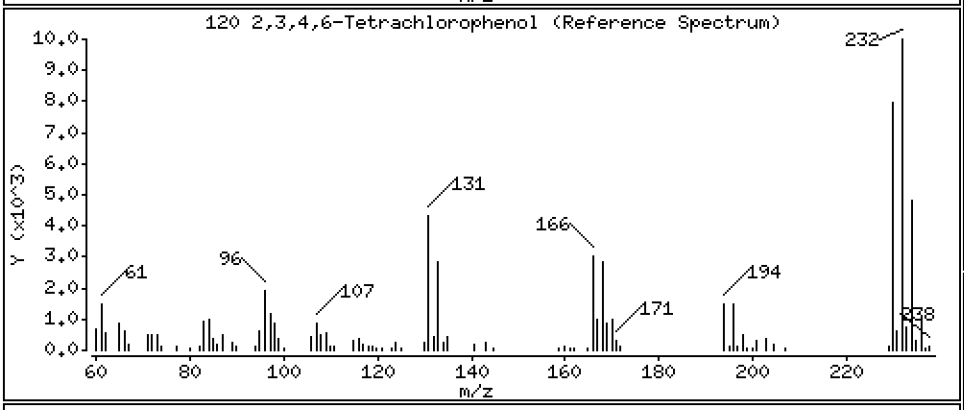
Column diameter: 0.25

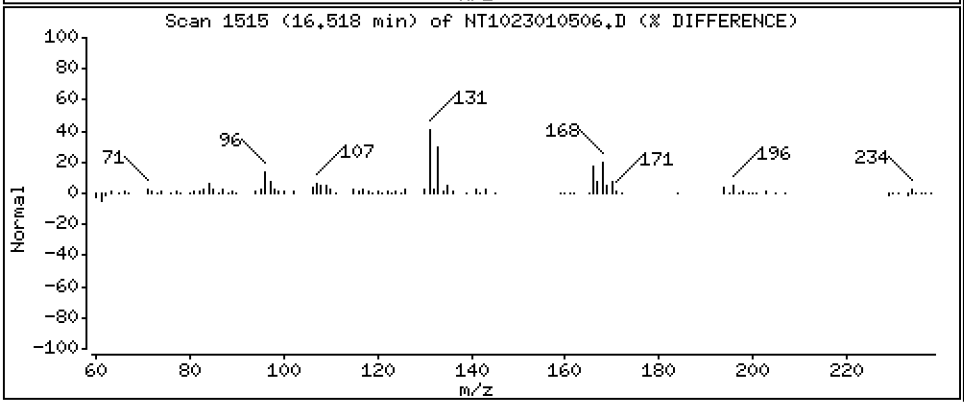
120 2,3,4,6-Tetrachlorophenol

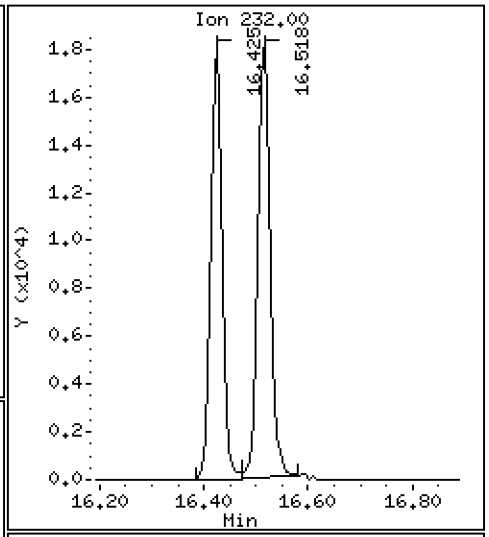
Concentration: 5.209 ug/mL

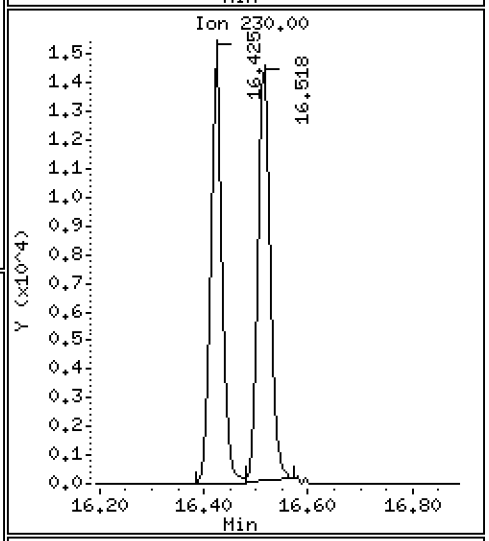


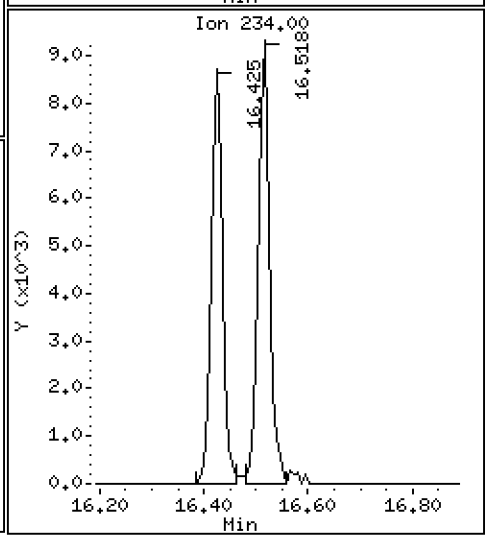












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010506.D
Lab Smp Id: BKL0489-BSD1
Inj Date : 05-JAN-2023 16:35
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

								CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE		ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	155095		6.95100	6.951
$	2 Phenol-d5	99	9.005	9.012	(0.931)	194159		7.23779	7.238
	3 Phenol	94	9.028	9.036	(0.934)	119452		4.65733	4.657
$	5 2-Chlorophenol-d4	132	9.306	9.321	(0.962)	187566		8.06785	8.068
	4 Bis(2-Chloroethyl)ether	93	9.190	9.205	(0.950)	100612		4.54056	4.541
	6 2-Chlorophenol	128	9.337	9.344	(0.966)	120698		4.89834	4.898
	7 1,3-Dichlorobenzene	146	9.608	9.623	(0.994)	118991		4.60044	4.600
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	67563		4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.716	(1.003)	106873		4.80487	4.805
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	68452		4.72675	4.727
	12 1,2-Dichlorobenzene	146	10.058	10.073	(1.040)	105799		4.68758	4.688
	11 Benzyl alcohol	108	9.926	9.941	(1.026)	65059		5.32618	5.326
	14 2,2'-oxybis(1-Chloropropane)	121	10.221	10.244	(1.057)	37228		5.60115	5.601
	13 2-Methylphenol	108	10.143	10.158	(1.049)	70553		4.08874	4.089
	17 Hexachloroethane	117	10.663	10.679	(1.103)	44950		4.60305	4.603
	16 N-Nitroso-di-n-propylamine	70	10.485	10.500	(1.084)	46496		5.11514	5.115
	15 4-Methylphenol	108	10.415	10.422	(1.077)	67014		5.48858	5.489
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	88313		4.97392	4.974
	19 Nitrobenzene	77	10.803	10.810	(0.888)	85755		5.27546	5.275
	20 Isophorone	82	11.237	11.261	(0.924)	176807		6.89786	6.898
	21 2-Nitrophenol	139	11.425	11.442	(0.939)	68902		4.61594	4.616
	22 2,4-Dimethylphenol	107	11.459	11.476	(0.942)	121238		5.93121	5.931
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	103414		5.84258	5.843
	24 Benzoic acid	105	11.680	11.671	(0.960)	316987		33.3777	33.38
	25 2,4-Dichlorophenol	162	11.883	11.900	(0.977)	290895		17.5984	17.60
	26 1,2,4-Trichlorobenzene	180	12.069	12.092	(0.992)	78274		4.59771	4.598
*	27 Naphthalene-d8	136	12.162	12.185	(1.000)	264641		4.00000	
	28 Naphthalene	128	12.208	12.224	(1.004)	298304		5.12617	5.126
	29 4-Chloroaniline	127	12.324	12.339	(1.013)	194022		8.24709	8.247
	30 Hexachlorobutadiene	225	12.556	12.579	(1.032)	31786		5.02415	5.024
	31 4-Chloro-3-methylphenol	107	13.268	13.291	(1.091)	311387		17.1497	17.15
	32 2-Methylnaphthalene	142	13.601	13.624	(1.118)	231801		5.03637	5.036
	33 Hexachlorocyclopentadiene	237	14.065	14.088	(0.891)	107533		16.1360	16.14

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.220	14.235	(0.901)	200322	19.4612	19.46
35	2,4,5-Trichlorophenol	196	14.297	14.312	(0.905)	209207	18.6436	18.64
$ 36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	226560	5.29600	5.296
37	2-Chloronaphthalene	162	14.599	14.622	(0.925)	205322	5.37228	5.372
38	2-Nitroaniline	65	14.847	14.862	(0.940)	106618	18.8552	18.86
39	Dimethylphthalate	163	15.265	15.280	(0.967)	202576	5.81733	5.817
40	Acenaphthylene	152	15.481	15.497	(0.980)	279414	5.08873	5.089
41	2,6-Dinitrotoluene	165	15.412	15.427	(0.976)	159775	20.2003	20.20
* 42	Acenaphthene-d10	164	15.791	15.814	(1.000)	115473	4.00000	
43	3-Nitroaniline	138	15.714	15.721	(0.995)	86189	14.2681	14.27
44	Acenaphthene	153	15.860	15.876	(1.004)	168833	5.54079	5.541
45	2,4-Dinitrophenol	184	15.915	15.938	(1.008)	190820	33.3952	33.40
46	Dibenzofuran	168	16.185	16.208	(1.025)	248758	5.37259	5.373
47	4-Nitrophenol	109	16.015	16.038	(1.014)	87542	18.6890	18.69
48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	208297	19.6262	19.63
50	Diethylphthalate	149	16.719	16.742	(1.059)	246316	6.70672	6.707
49	Fluorene	166	16.896	16.919	(1.070)	386991	5.69326	5.693
51	4-Chlorophenyl-phenylether	204	16.873	16.896	(1.069)	106770	4.89053	4.891
52	4-Nitroaniline	138	16.981	17.004	(1.075)	268929	16.7910	16.79
53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	351169	37.7619	37.76
54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.909)	170383	4.52136	4.521
$ 55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	19517	8.15399	8.154
56	4-Bromophenyl-phenylether	248	17.883	17.914	(0.949)	56842	5.72957	5.730
57	Hexachlorobenzene	284	18.215	18.238	(0.967)	38112	4.49217	4.492
58	Pentachlorophenol	266	18.571	18.594	(0.986)	43410	24.1670	24.17
* 59	Phenanthrene-d10	188	18.842	18.865	(1.000)	203593	4.00000	
60	Phenanthrene	178	18.896	18.919	(1.003)	264292	5.35067	5.351
61	Anthracene	178	18.981	19.005	(1.007)	226559	4.69866	4.699
62	Carbazole	167	19.299	19.322	(1.024)	254054	4.88959	4.890
63	Di-n-butylphthalate	149	20.041	20.072	(1.064)	429766	5.88715	5.887
64	Fluoranthene	202	21.248	21.271	(0.891)	330027	5.62972	5.630
65	Pyrene	202	21.666	21.689	(0.908)	321105	5.46309	5.463
$ 66	Terphenyl-d14	244	21.929	21.952	(0.919)	176923	5.24320	5.243
67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	177793	5.62917	5.629
68	Benzo(a)anthracene	228	23.819	23.842	(0.999)	199394	4.99618	4.996
* 69	Chrysene-d12	240	23.850	23.873	(1.000)	139255	4.00000	
70	3,3'-Dichlorobenzidine	252	23.757	23.780	(0.996)	114811	8.02111	8.021
71	Chrysene	228	23.896	23.919	(1.002)	185280	5.37514	5.375
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.958)	307655	5.98443	5.984
* 134	Di-n-octylphthalate-d4	153	24.895	24.926	(1.000)	334759	4.00000	
73	Di-n-octylphthalate	149	24.910	24.941	(1.001)	435216	5.62212	5.622
74	Benzo(b)fluoranthene	252	25.901	25.932	(0.967)	194042	6.17103	6.171
75	Benzo(k)fluoranthene	252	25.948	25.978	(0.969)	181672	5.93000	5.930
76	Benzo(a)pyrene	252	26.660	26.691	(0.995)	162722	5.42680	5.427
* 77	Perylene-d12	264	26.791	26.822	(1.000)	87292	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.915	29.946	(1.117)	136723	5.80089	5.801
79	Dibenzo(a,h)anthracene	278	29.923	29.970	(1.117)	110460	5.96435	5.964
80	Benzo(g,h,i)perylene	276	30.847	30.886	(1.151)	107694	5.53817	5.538
90	N-Nitrosodimethylamine	74	5.274	5.282	(0.545)	144605	11.4267	11.43
91	Aniline	93	9.121	9.128	(0.943)	124460	5.24950	5.250
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	5.305	5.290	(0.549)	31332	0.87898	0.8790
105	1-methylnaphthalene	142	13.825	13.848	(1.137)	224080	4.98264	4.983
111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	239815	5.26598	5.266

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.978	(0.967)	362649	12.1803	12.18
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.541	(1.046)	31266	5.20903	5.209

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010506.D
Lab Smp Id: BKL0489-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	67563	-17.33
27 Naphthalene-d8	307034	153517	614068	264641	-13.81
42 Acenaphthene-d10	140557	70279	281114	115473	-17.85
59 Phenanthrene-d10	243620	121810	487240	203593	-16.43
69 Chrysene-d12	144852	72426	289704	139255	-3.86
134 Di-n-octylphthala	387178	193589	774356	334759	-13.54
77 Perylene-d12	106683	53342	213366	87292	-18.18

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.16	-0.19
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.12
77 Perylene-d12	26.82	26.32	27.32	26.79	-0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010506.D

Lab ID: BKL0489-BSD1
nt10.i, ABN.m, 05-JAN-2023 16:35

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

LCS / LCS DUPLICATE RECOVERY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/06/23 18:14
Batch:	BKL0585	Laboratory ID:	BKL0585-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	10 g / 1 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Butylbenzylphthalate	500	563	Q	113	45 - 132

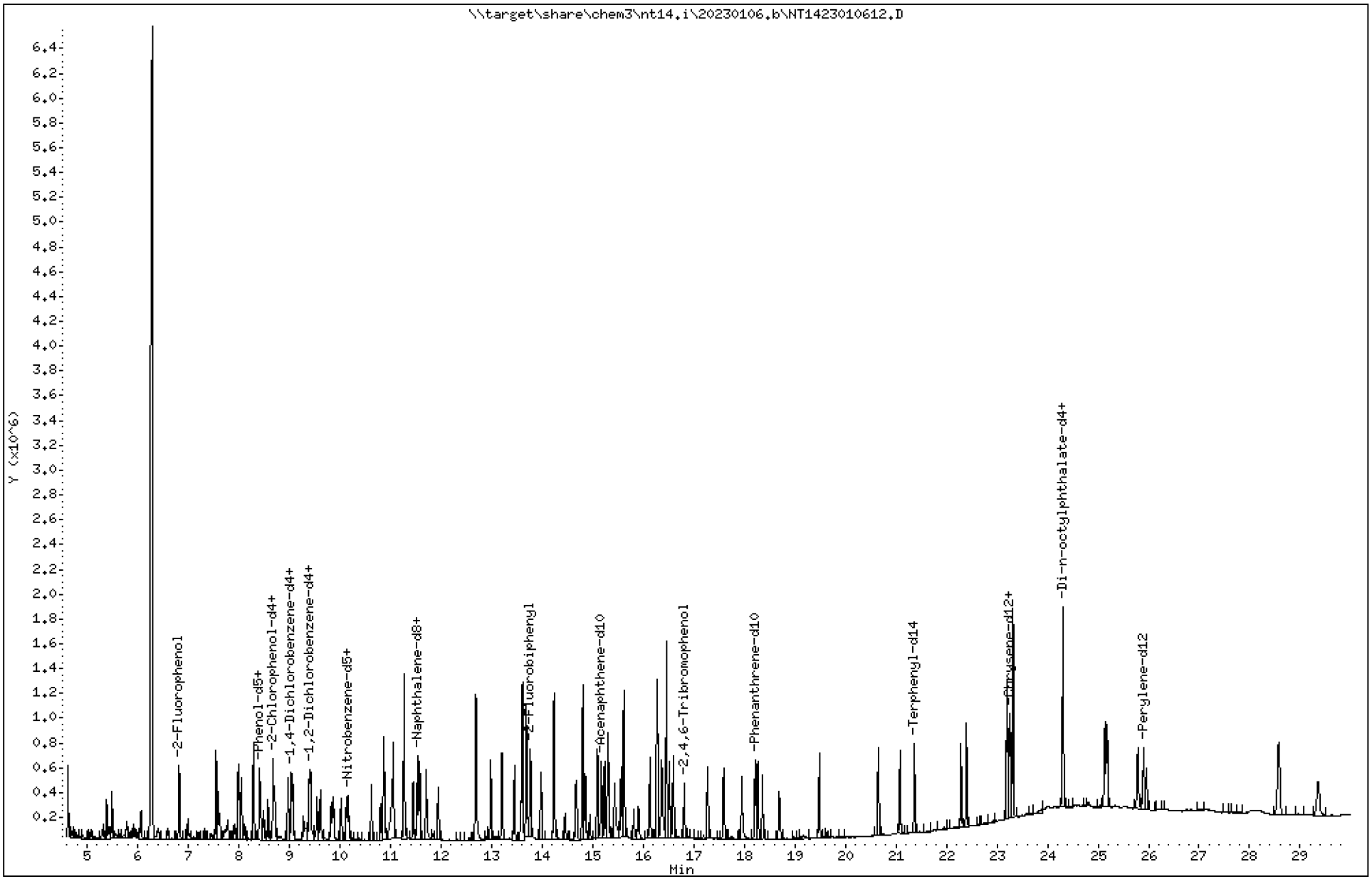
* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Butylbenzylphthalate	500	677	*, Q	135 *	18.4	30	45 - 132

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D
Date : 06-JAN-2023 18:14
Client ID:
Sample Info: BKL0585-BS1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

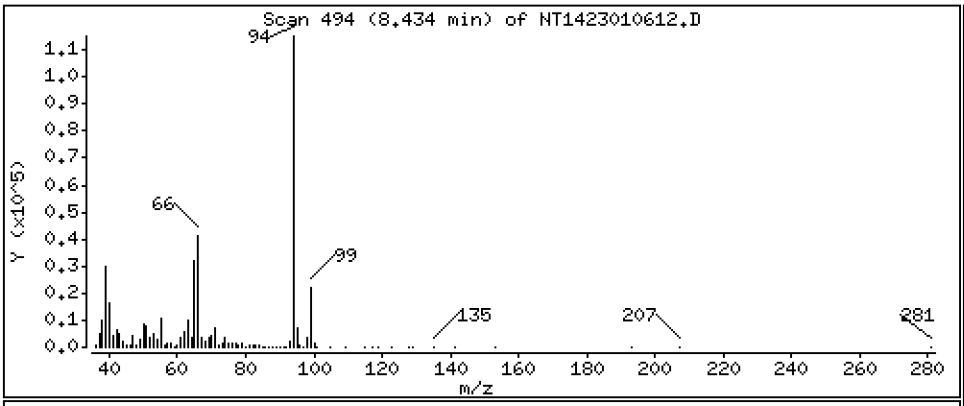
Operator: VTS

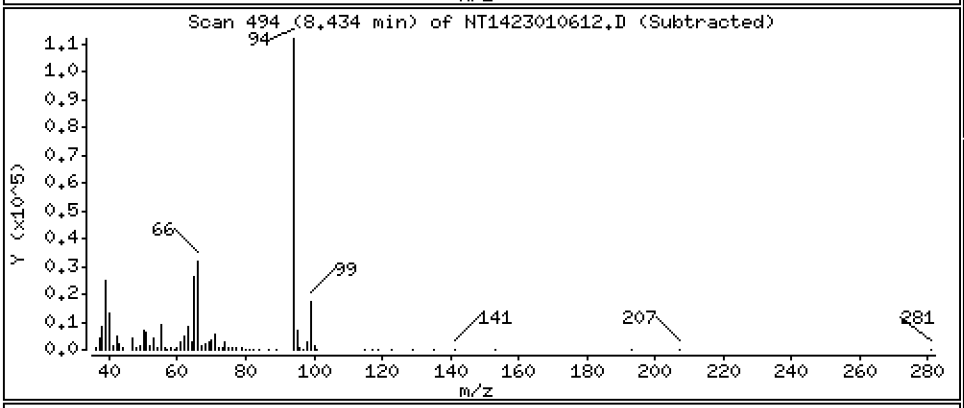
Column phase: ZB-5msi

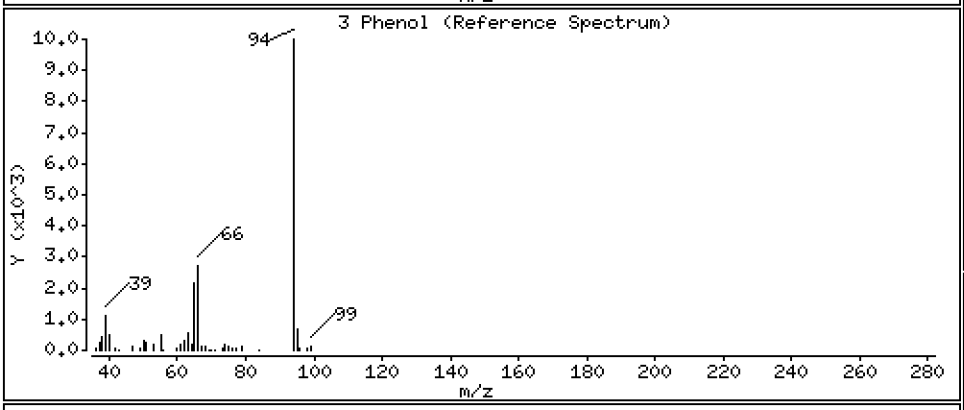
Column diameter: 0.25

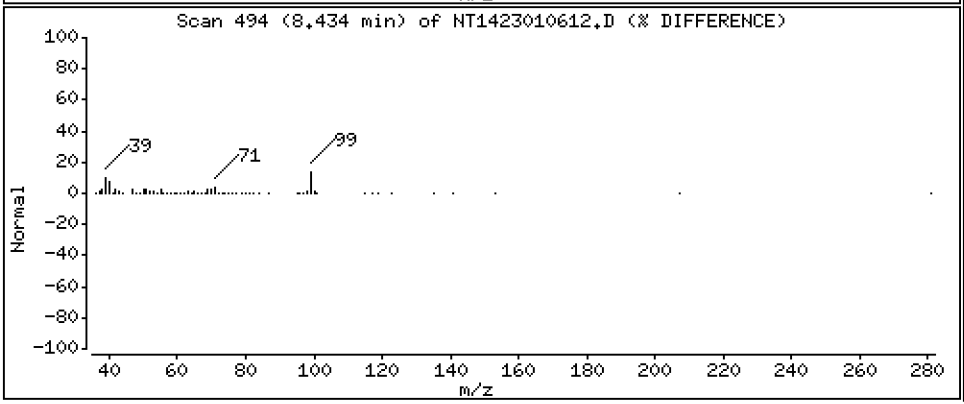
3 Phenol

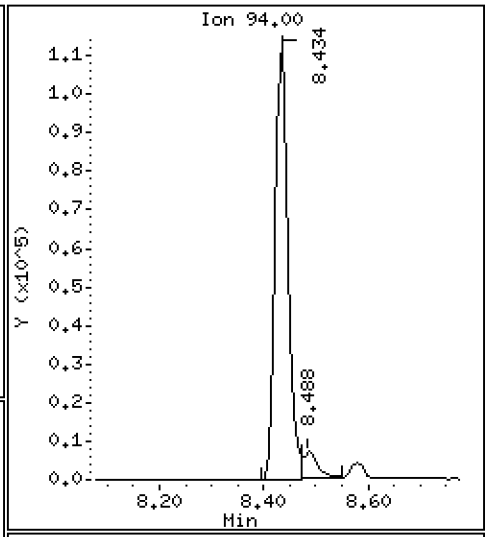
Concentration: 2.985 ug/mL

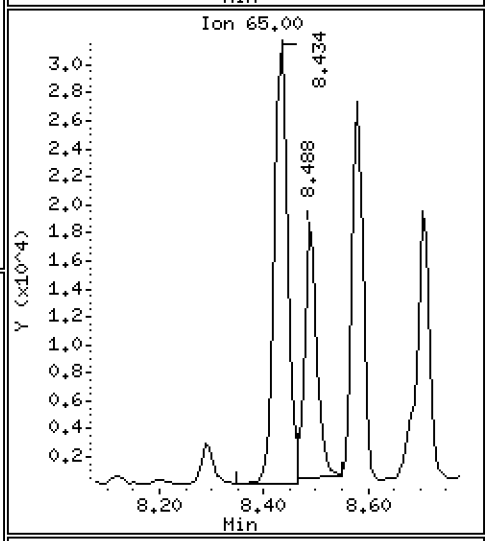


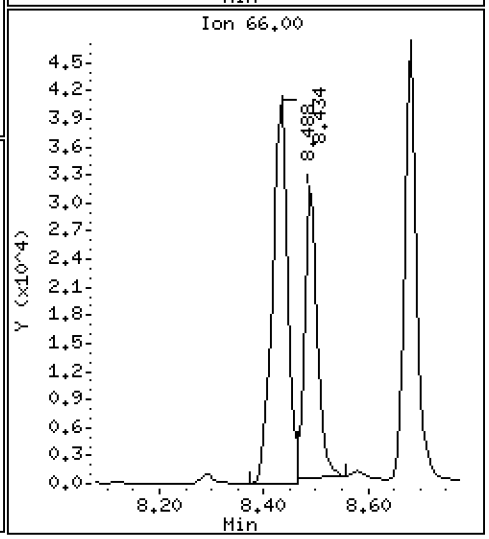












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

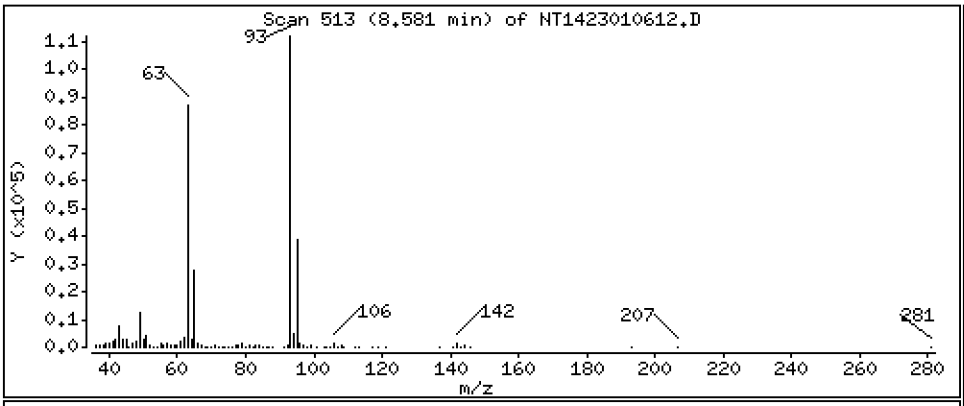
Operator: VTS

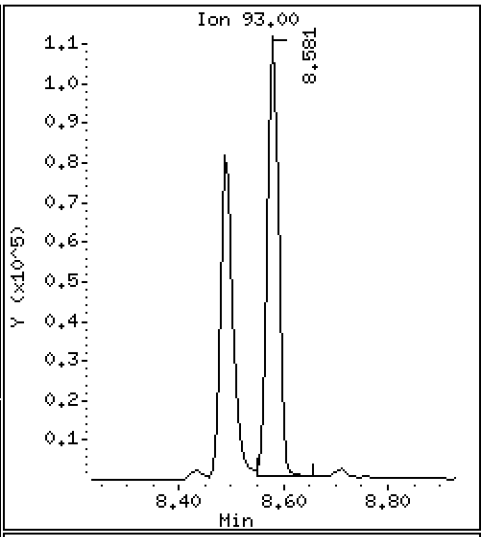
Column phase: ZB-5msi

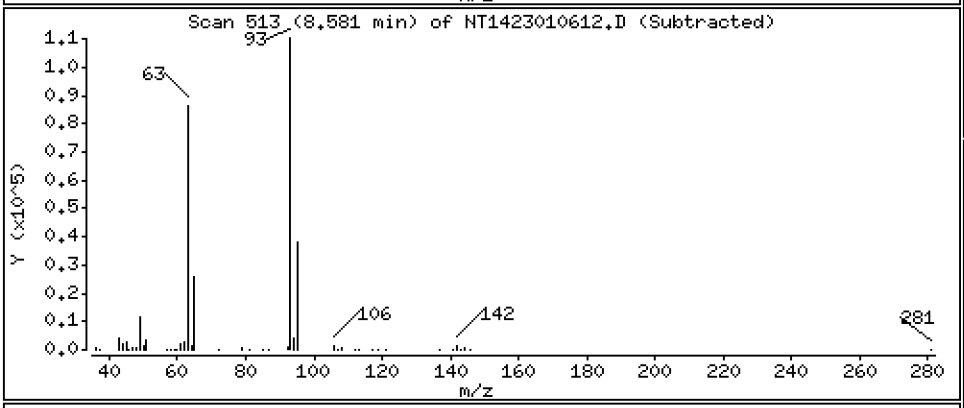
Column diameter: 0.25

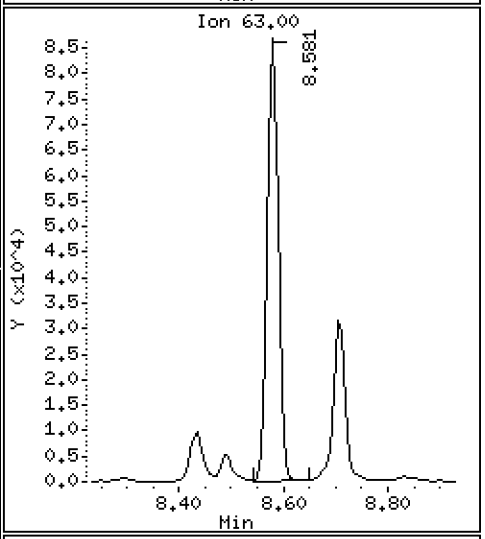
4 Bis(2-Chloroethyl)ether

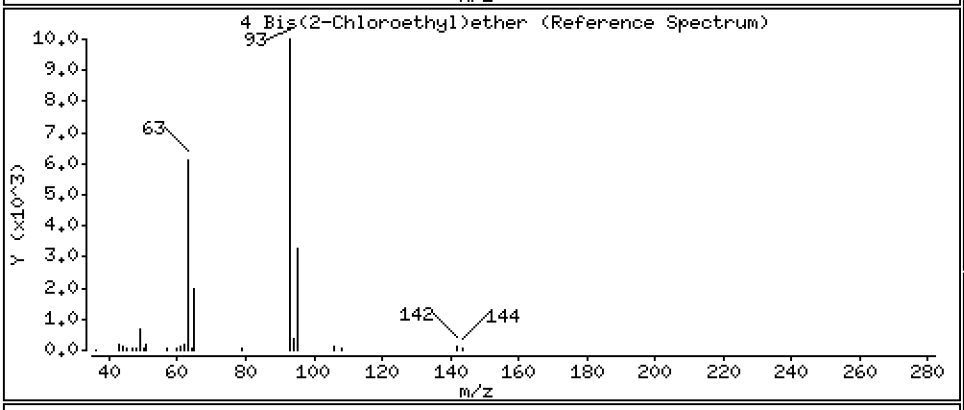
Concentration: 3.718 ug/mL

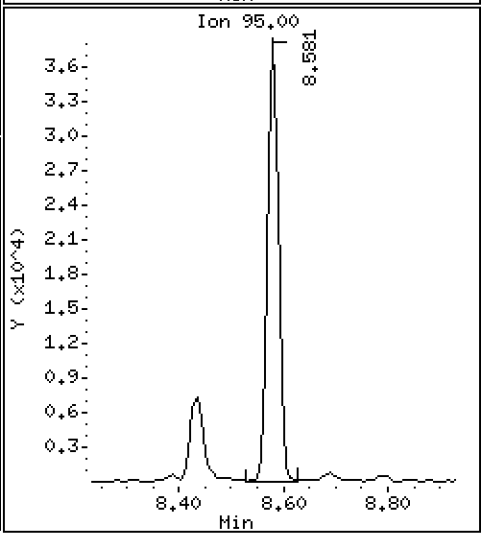


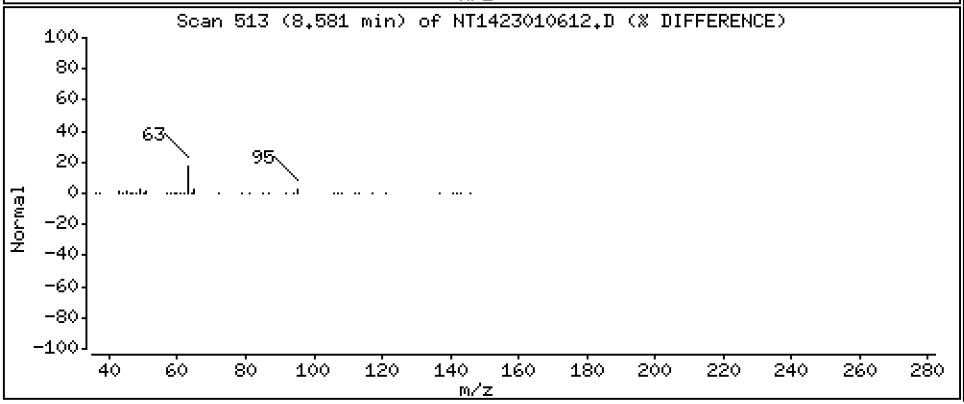












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

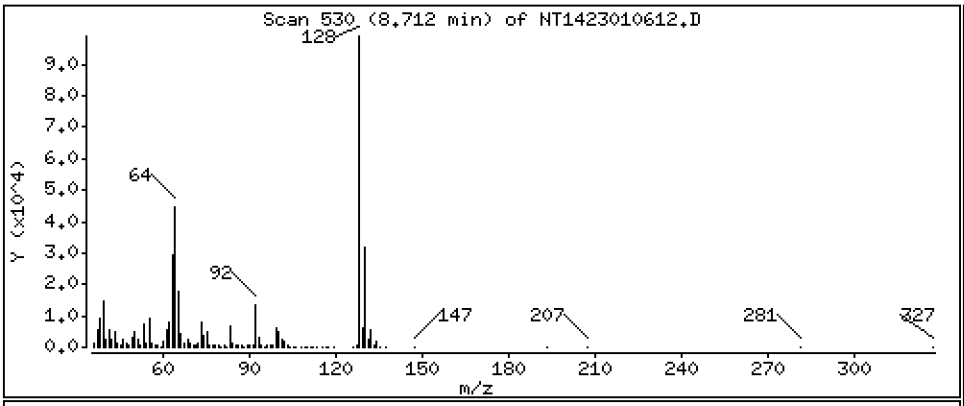
Operator: VTS

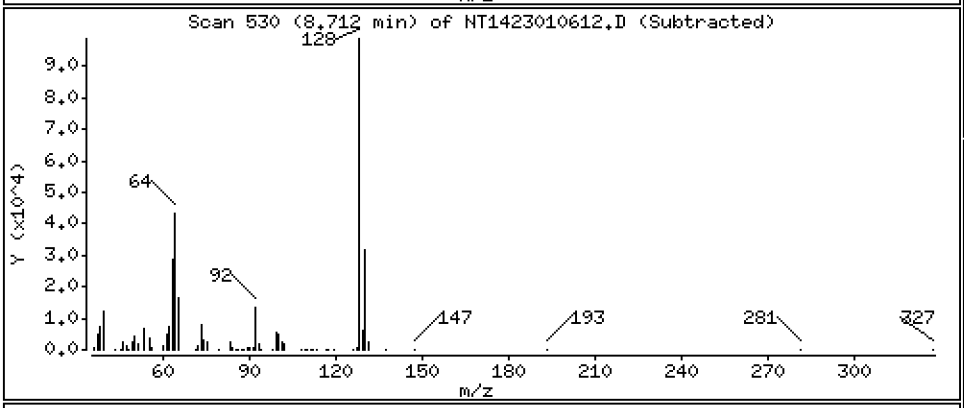
Column phase: ZB-5msi

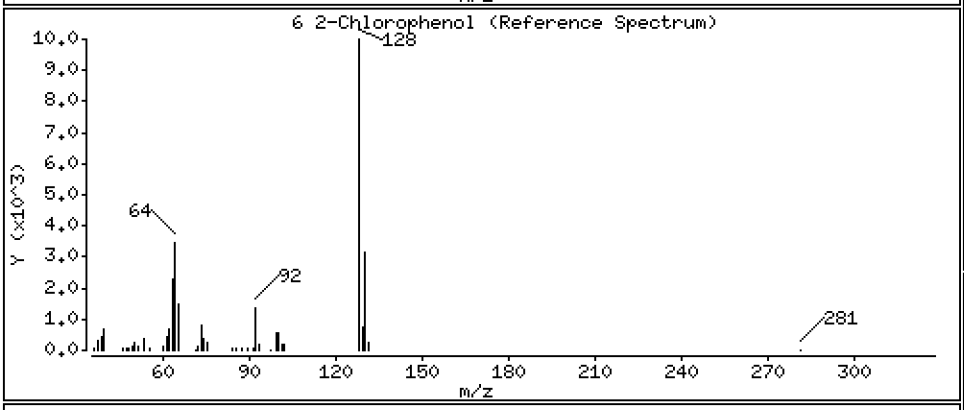
Column diameter: 0.25

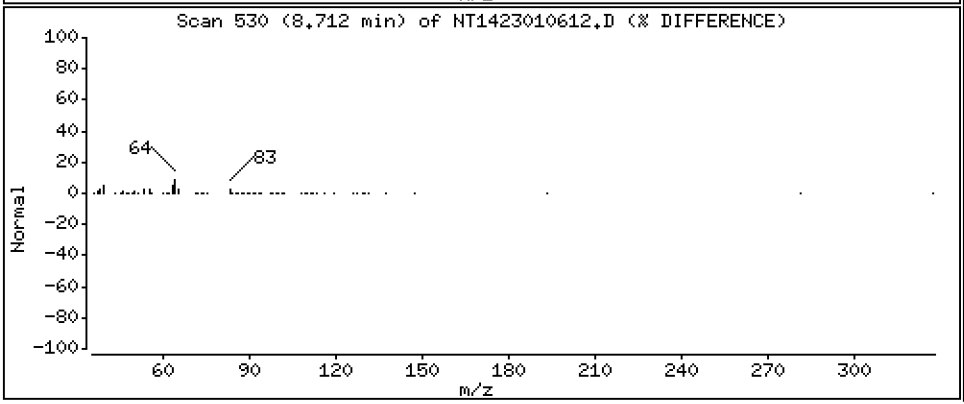
6 2-Chlorophenol

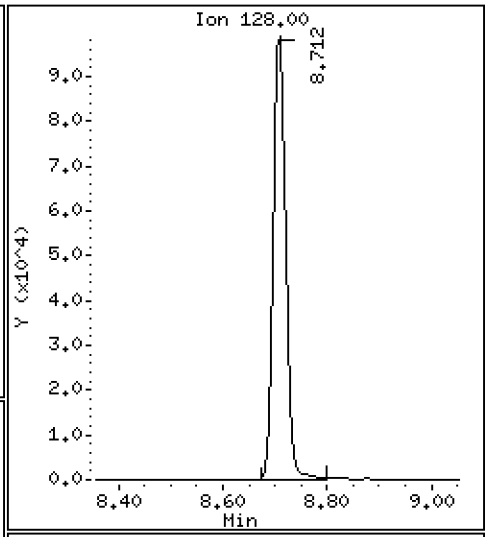
Concentration: 3.148 ug/mL

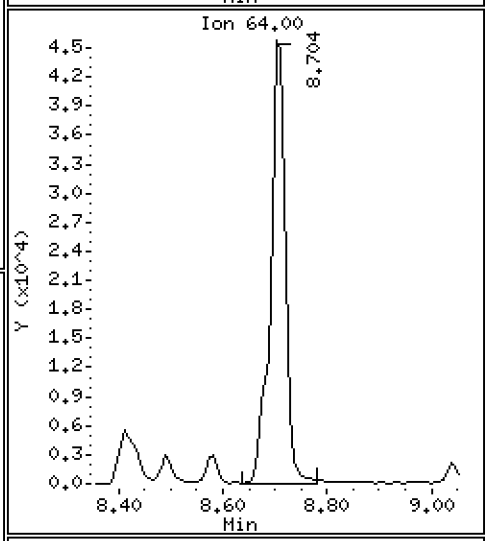


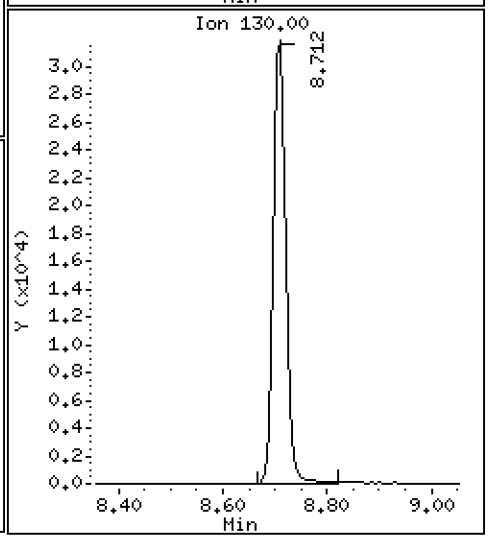












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

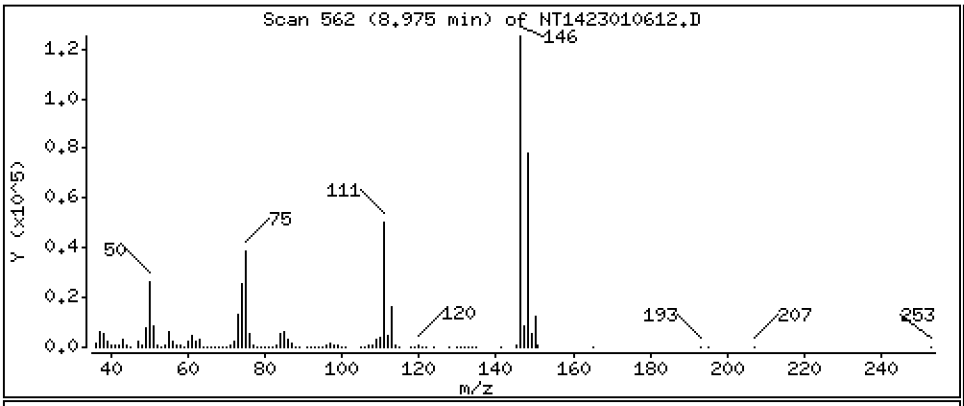
Operator: VTS

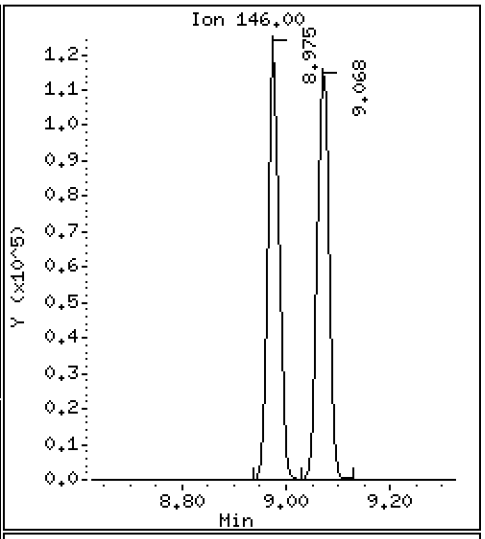
Column phase: ZB-5msi

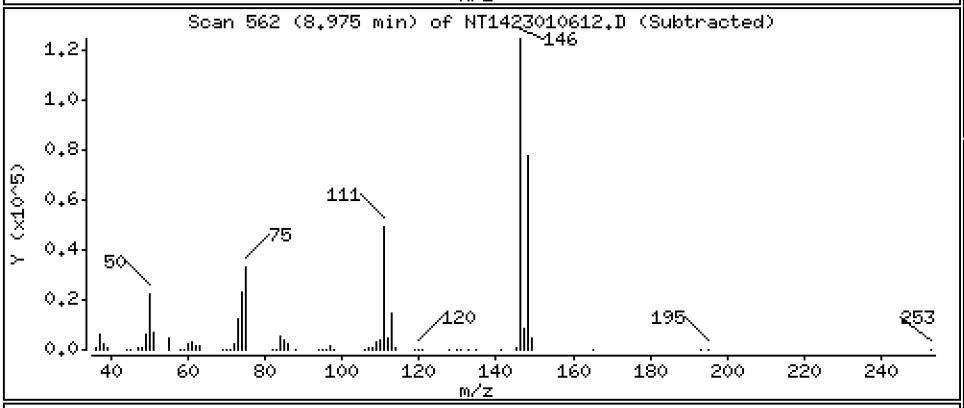
Column diameter: 0.25

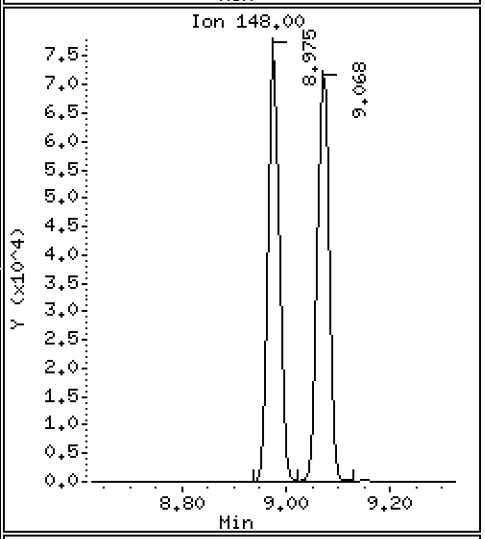
7 1,3-Dichlorobenzene

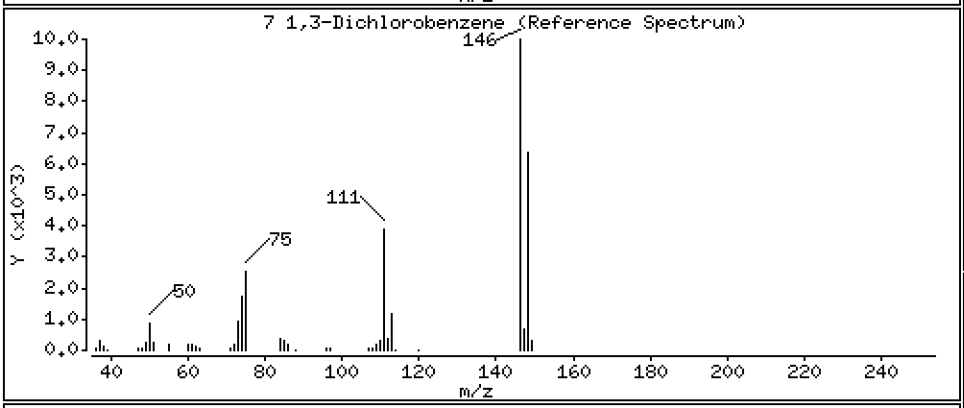
Concentration: 3.360 ug/mL

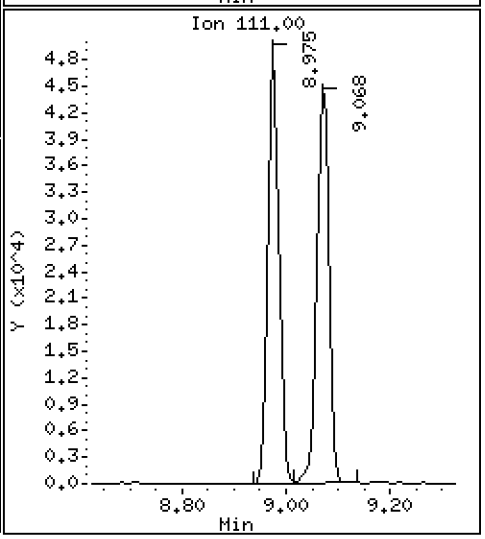


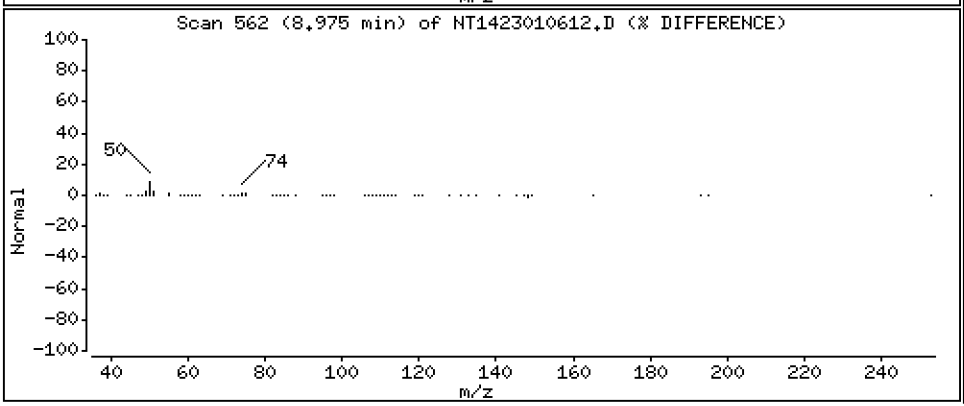












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

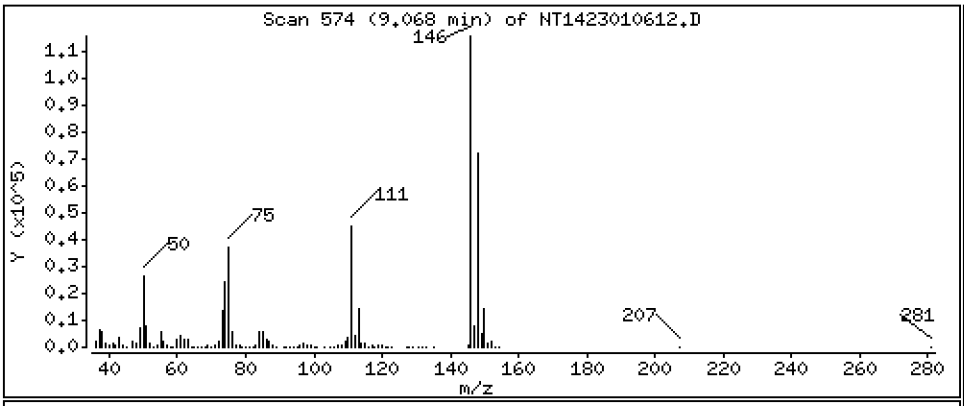
Operator: VTS

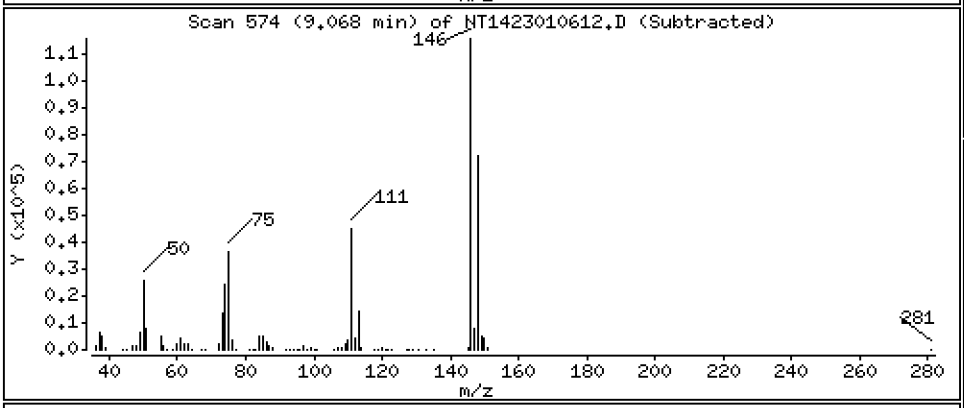
Column phase: ZB-5msi

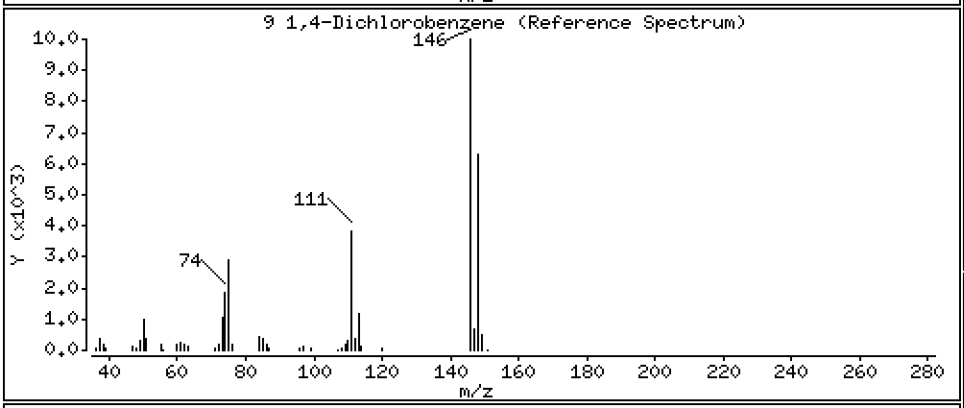
Column diameter: 0.25

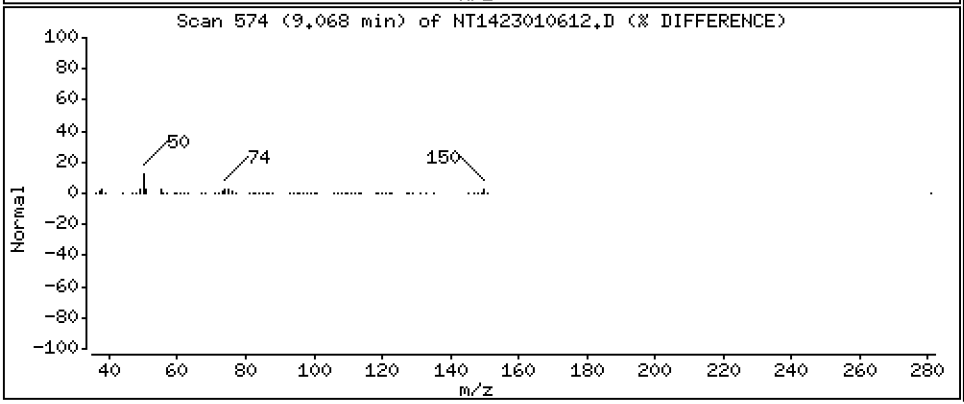
9 1,4-Dichlorobenzene

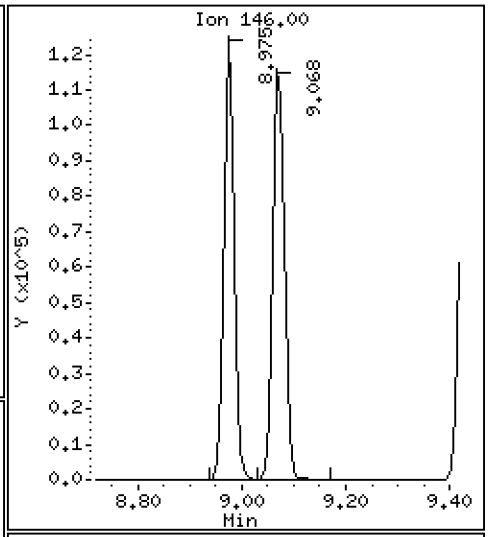
Concentration: 3.917 ug/mL

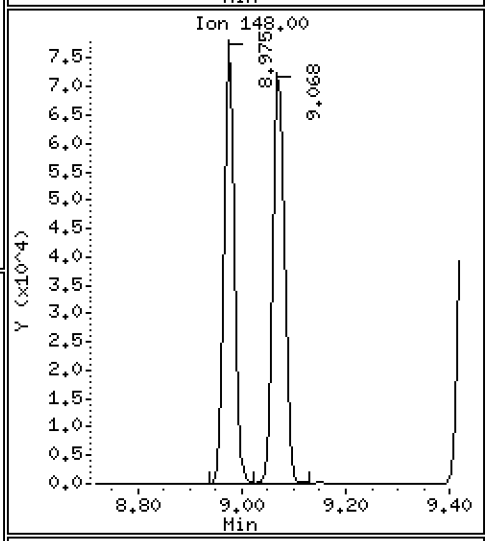


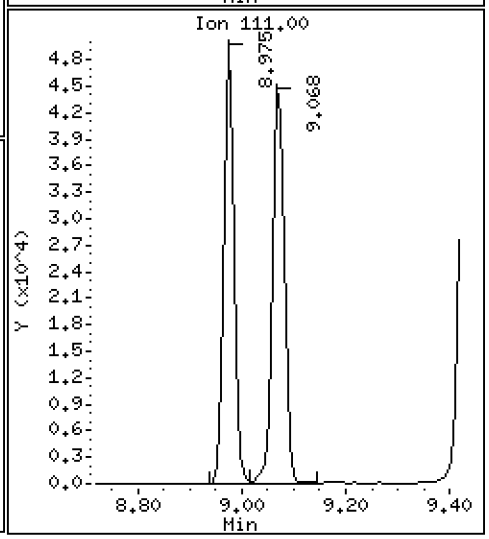












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

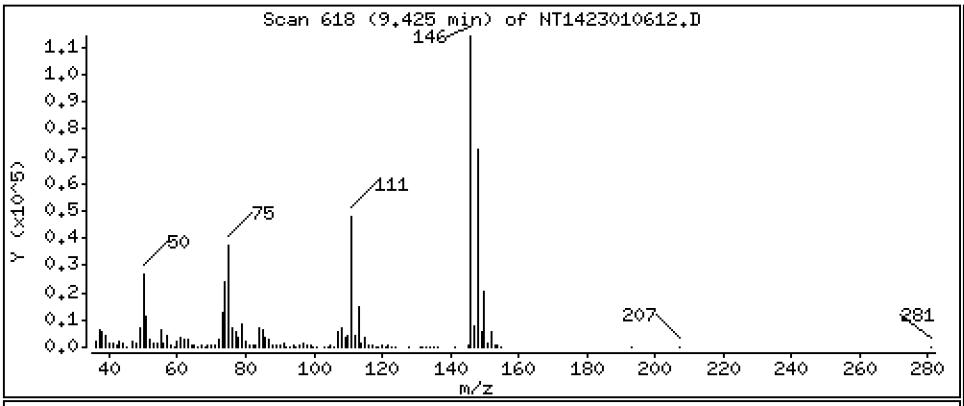
Operator: VTS

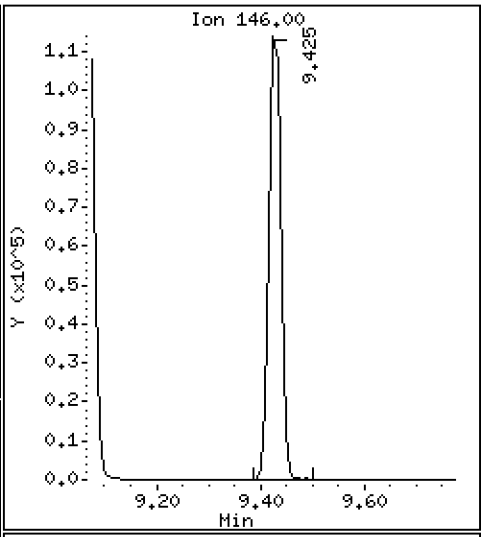
Column phase: ZB-5msi

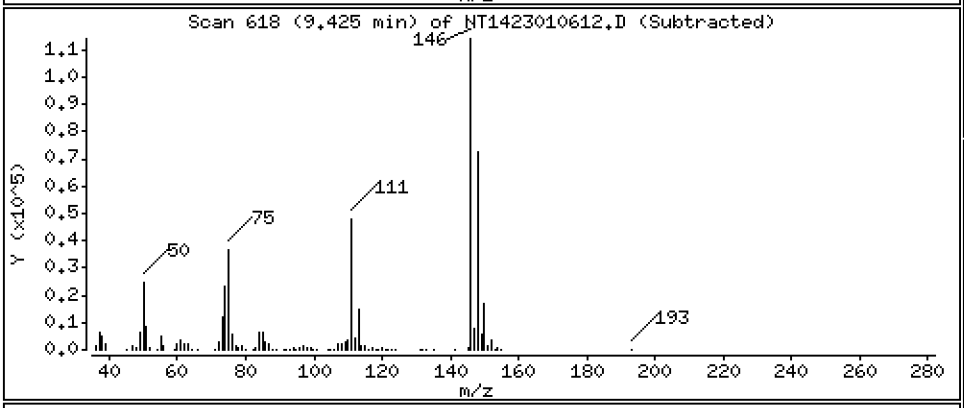
Column diameter: 0.25

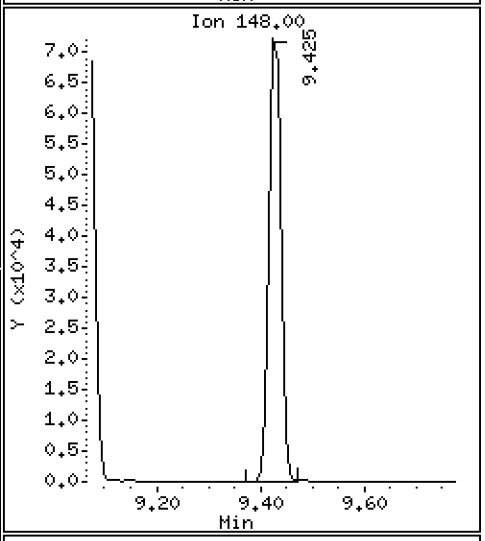
12 1,2-Dichlorobenzene

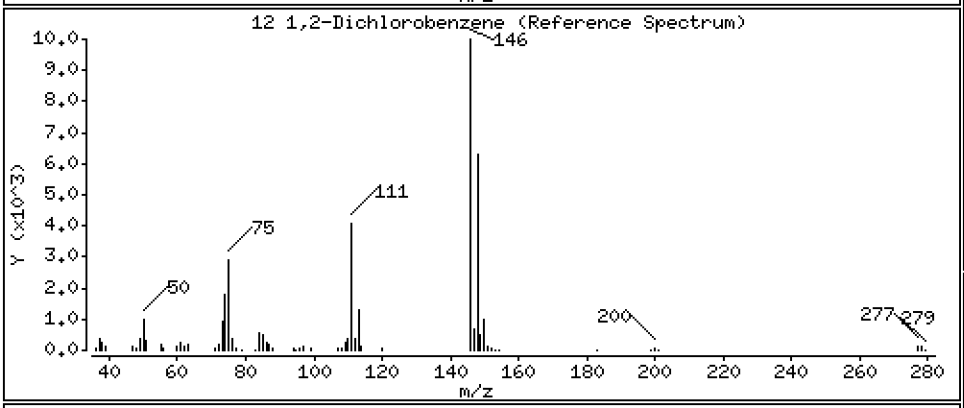
Concentration: 3.529 ug/mL

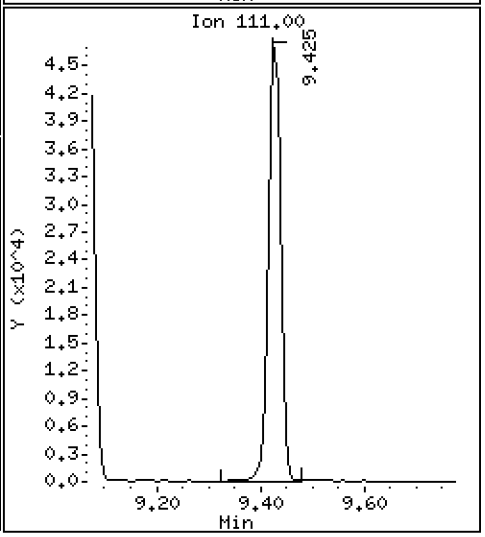


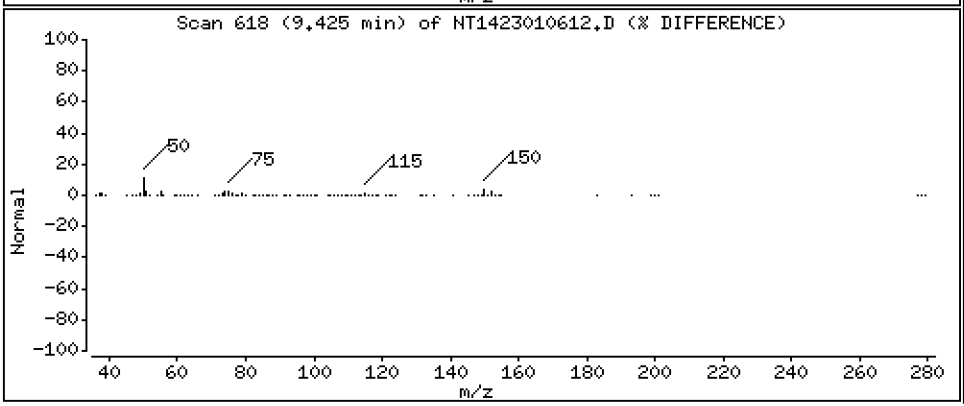












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

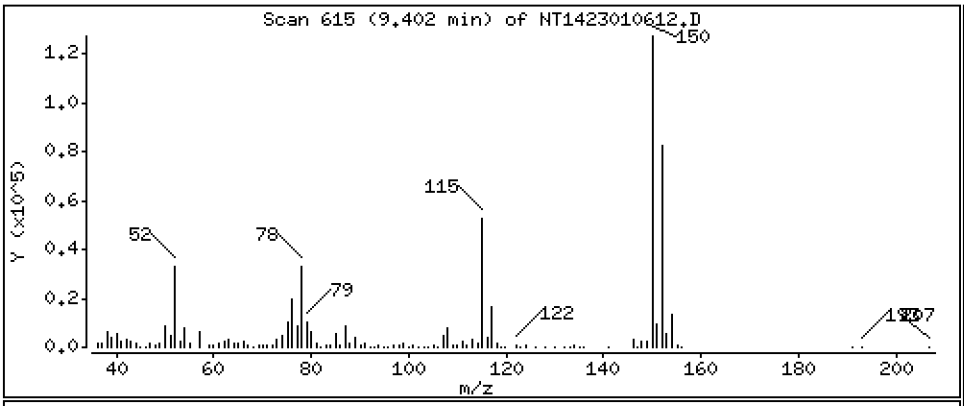
Operator: VTS

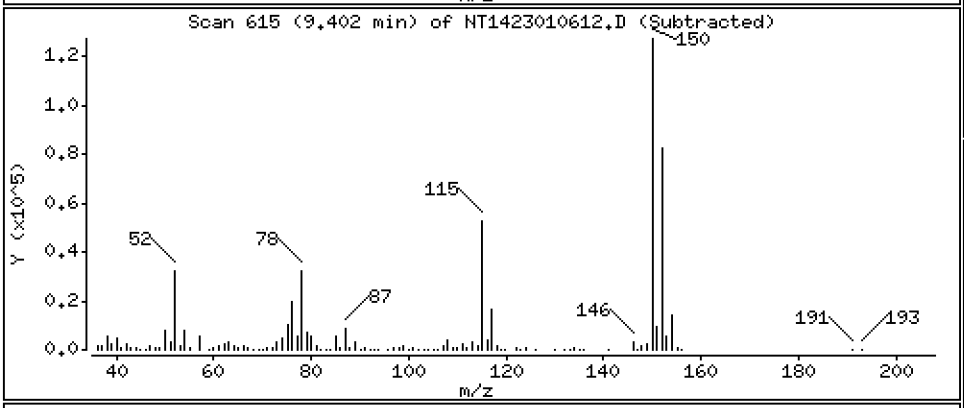
Column phase: ZB-5msi

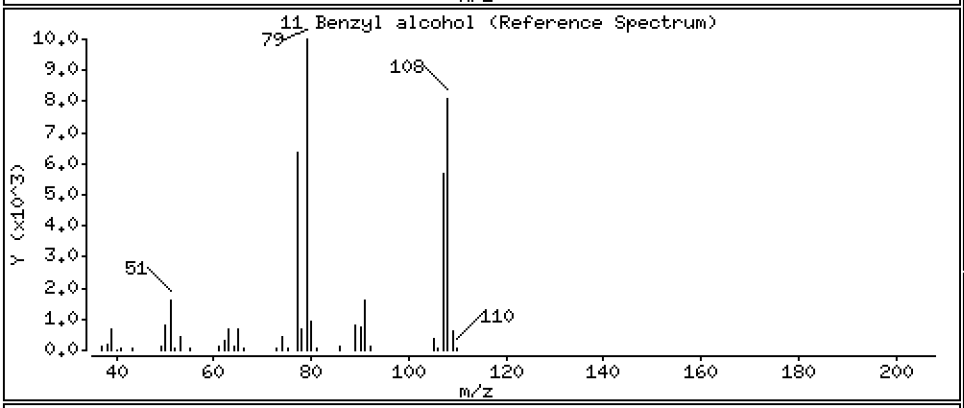
Column diameter: 0.25

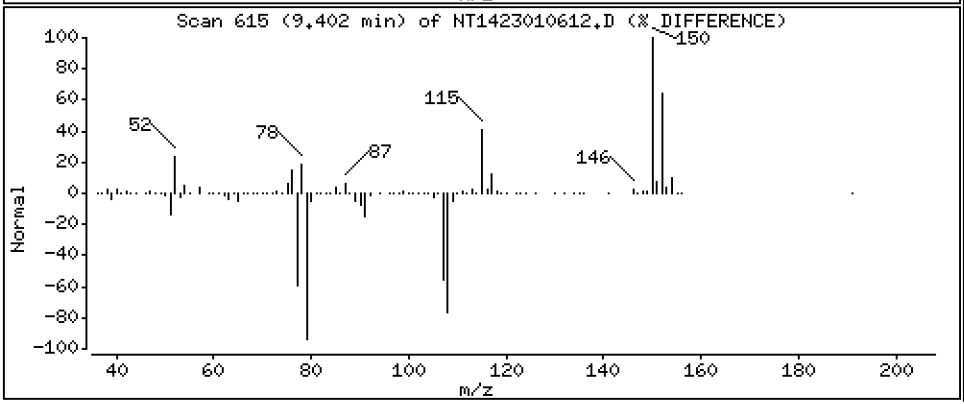
11 Benzyl alcohol

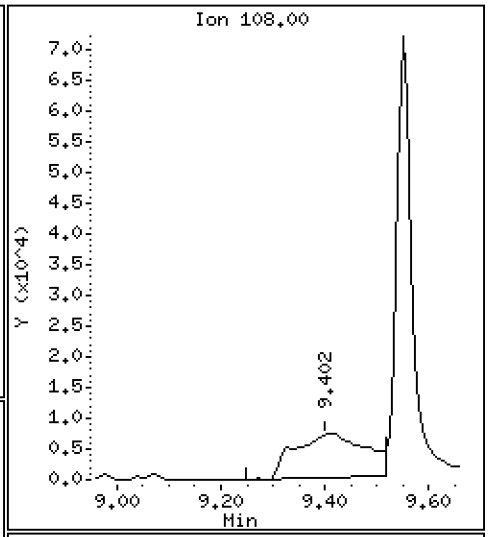
Concentration: 2.527 ug/mL

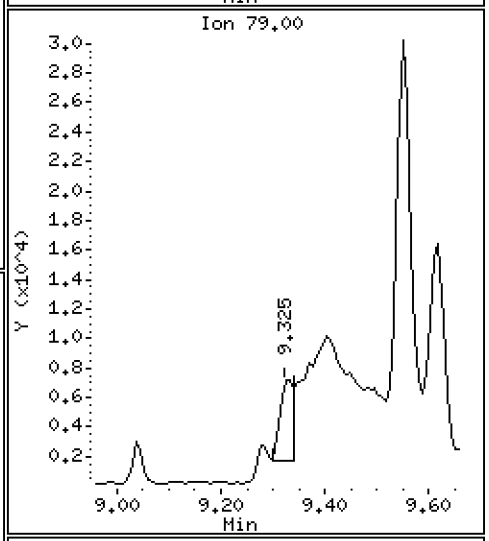


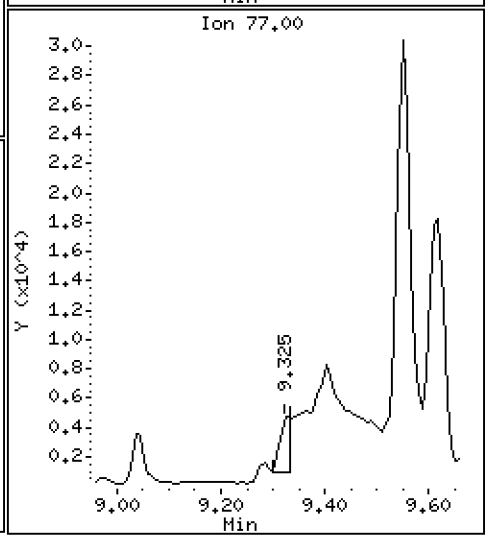












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

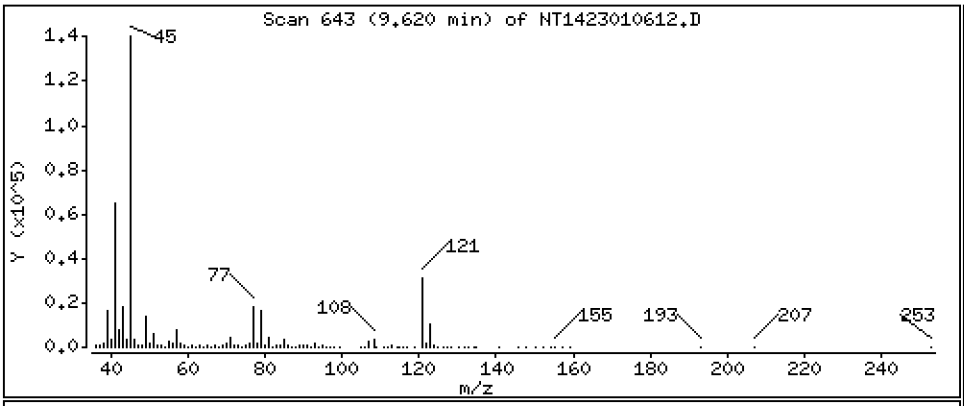
Operator: VTS

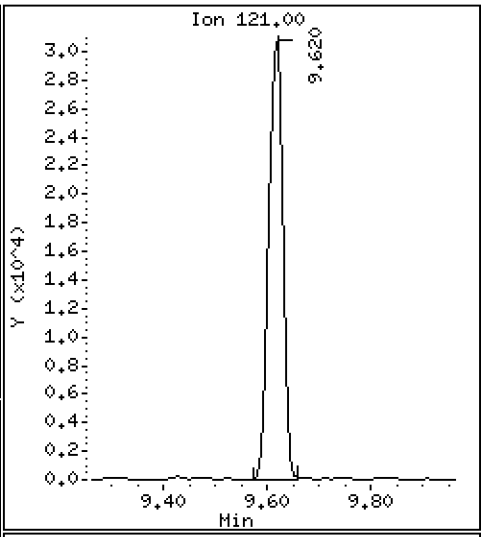
Column phase: ZB-5msi

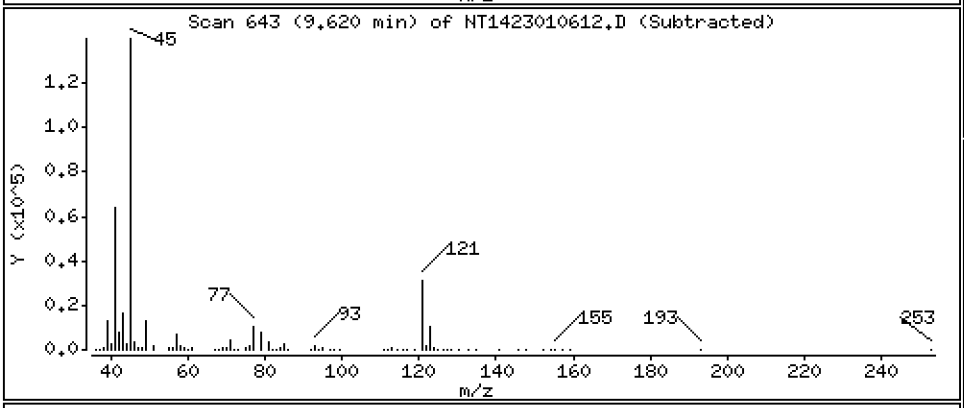
Column diameter: 0.25

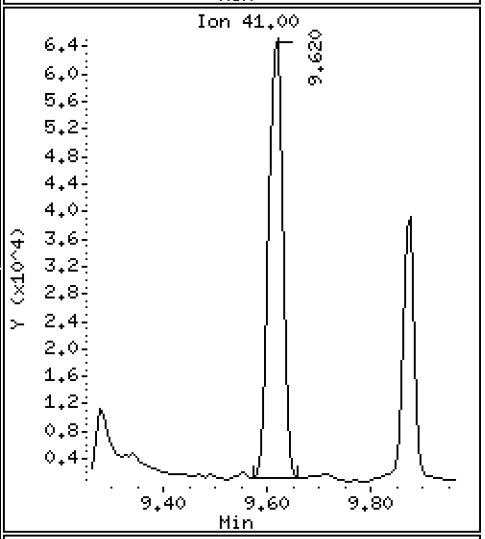
14 2,2'-oxybis(1-Chloropropane)

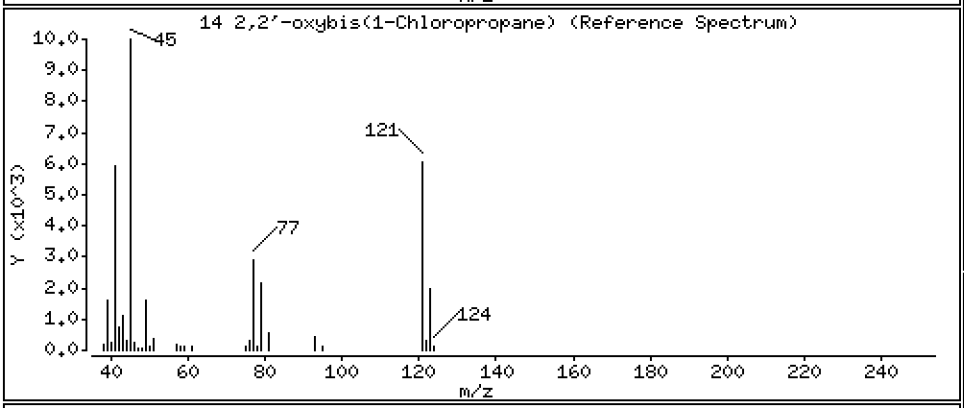
Concentration: 3.952 ug/mL

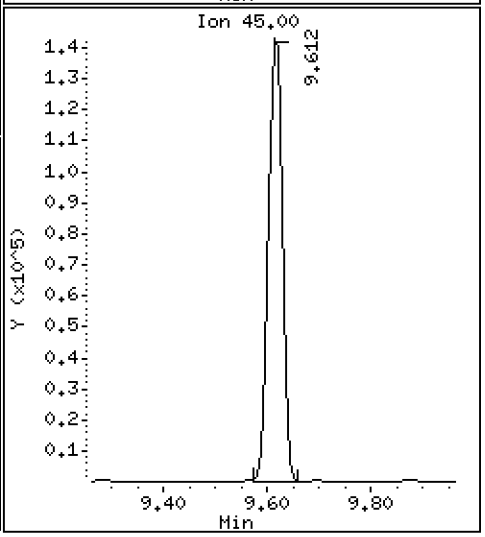


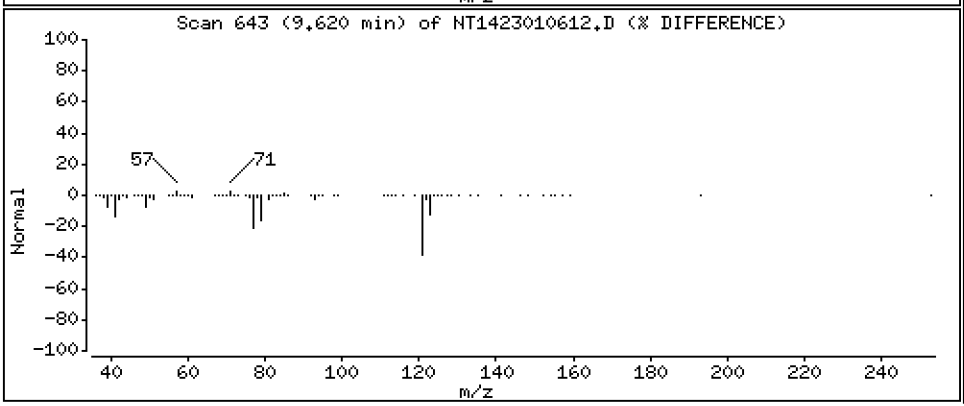












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

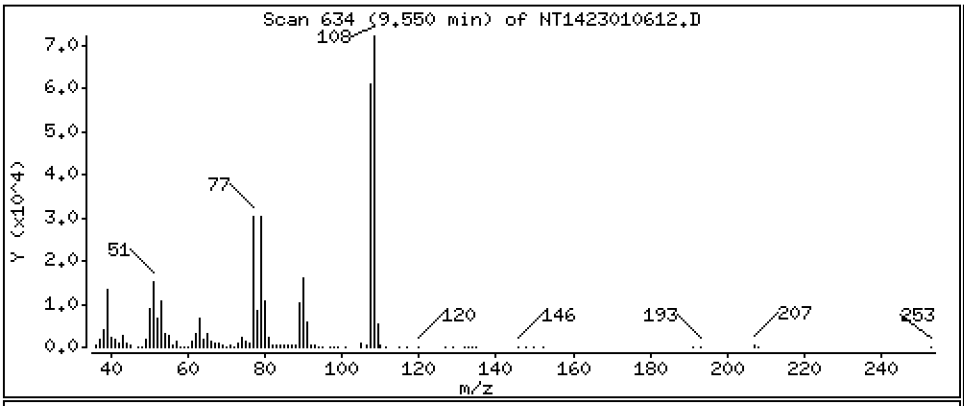
Operator: VTS

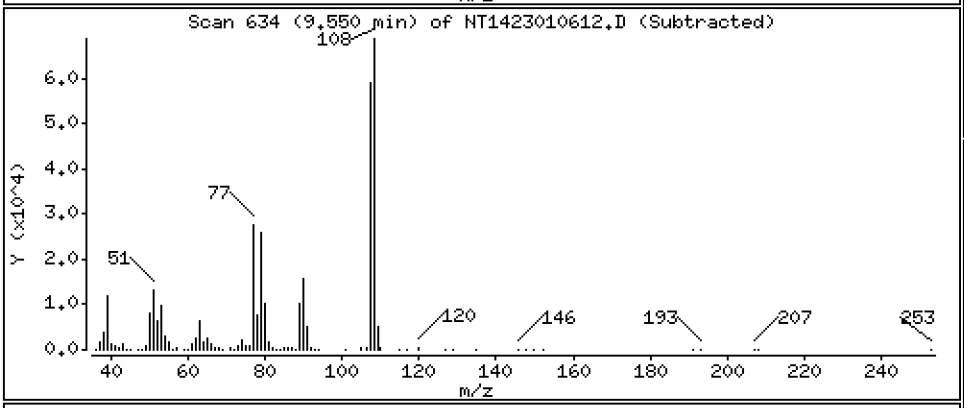
Column phase: ZB-5msi

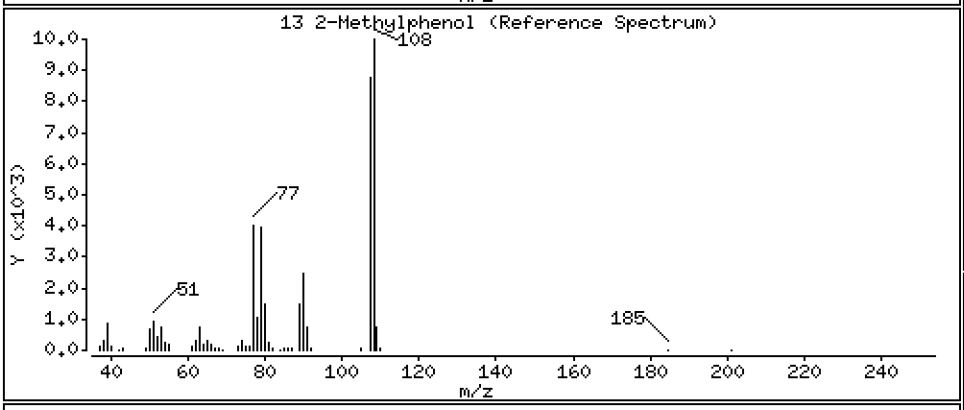
Column diameter: 0.25

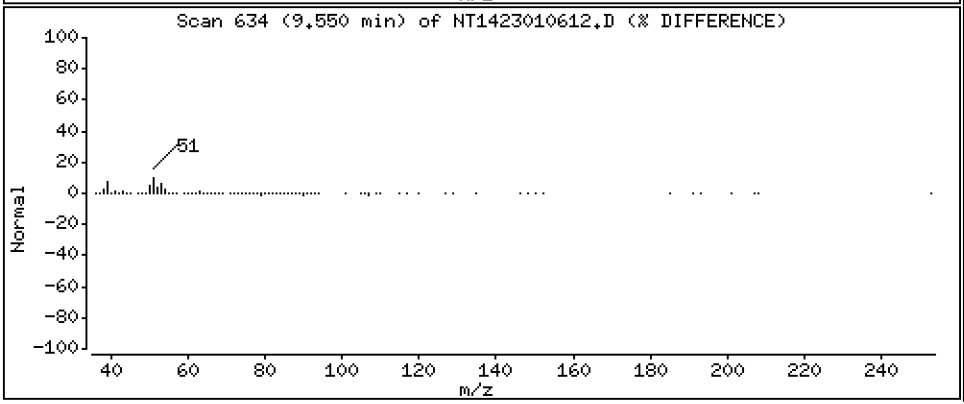
13 2-Methylphenol

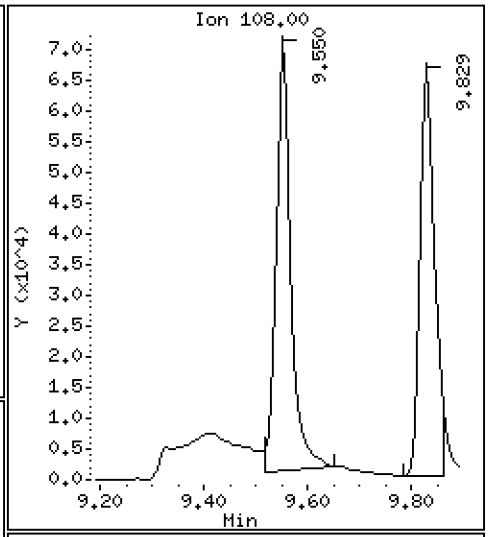
Concentration: 3.022 ug/mL

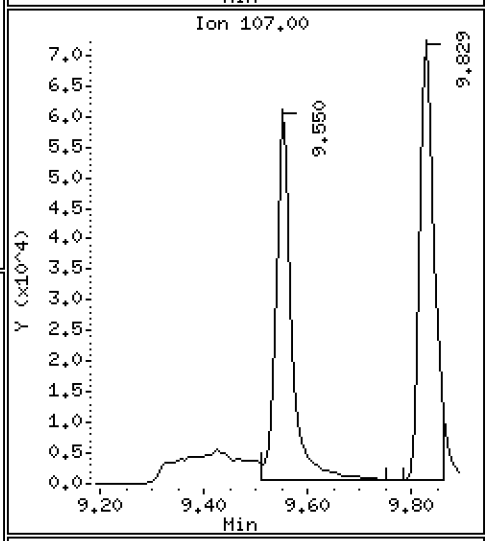


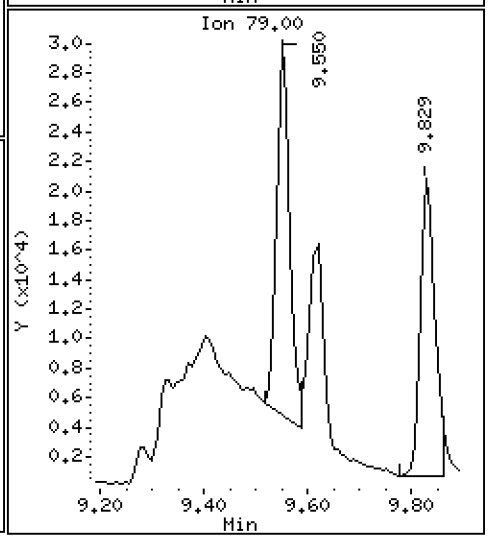












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

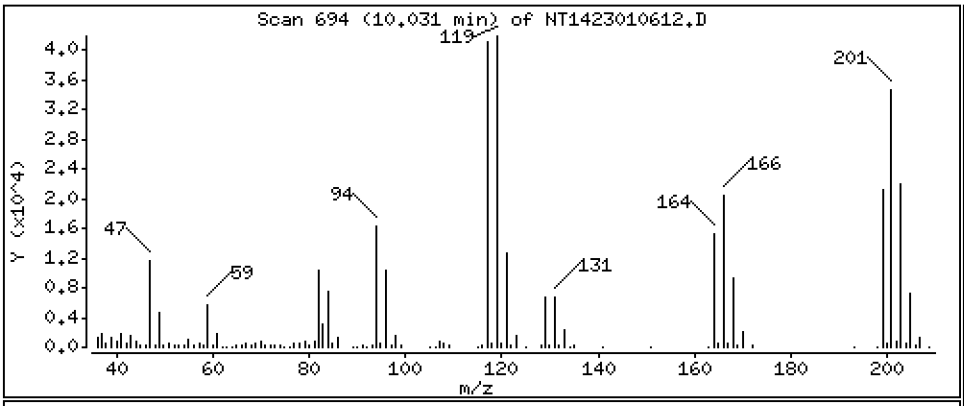
Operator: VTS

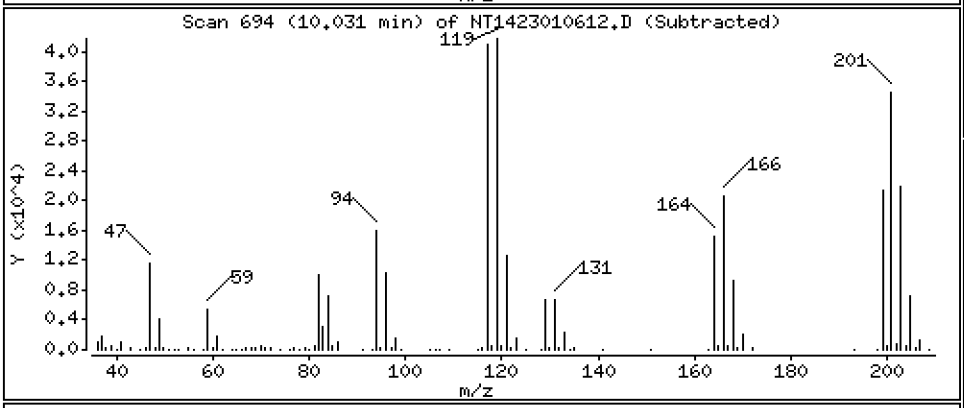
Column phase: ZB-5msi

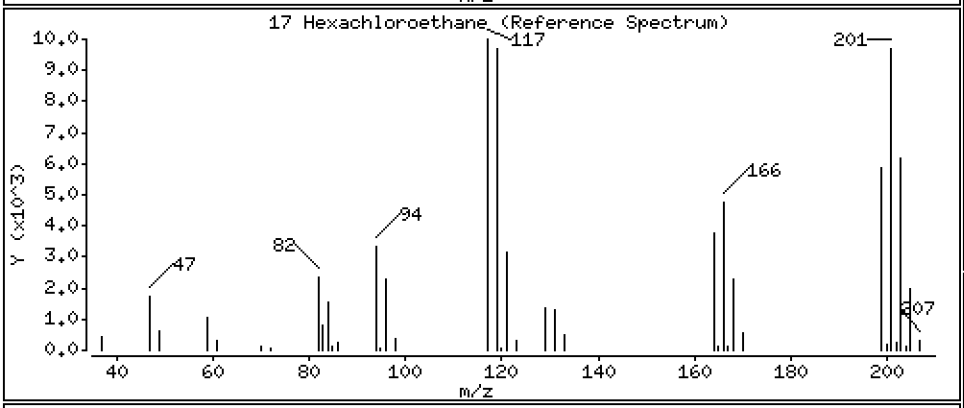
Column diameter: 0.25

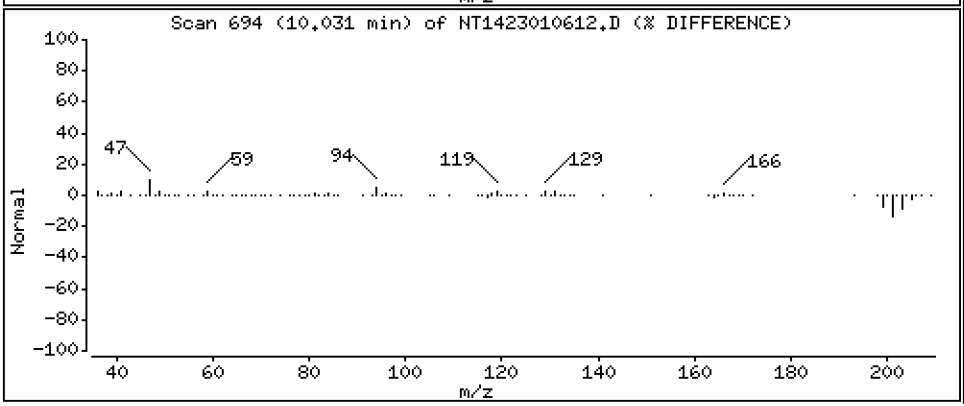
17 Hexachloroethane

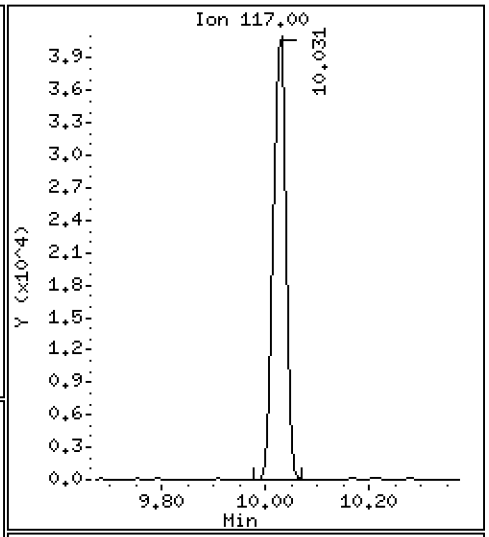
Concentration: 3.621 ug/mL

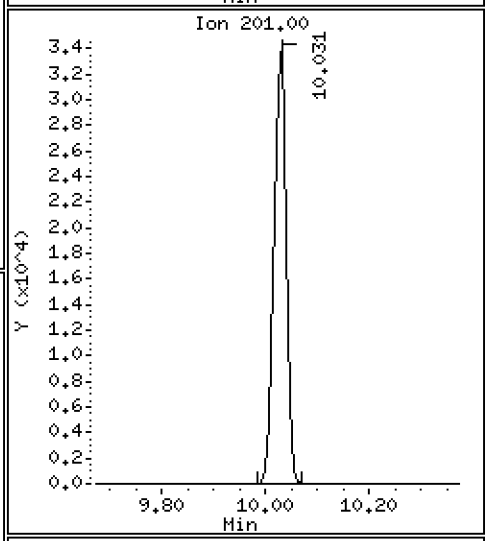


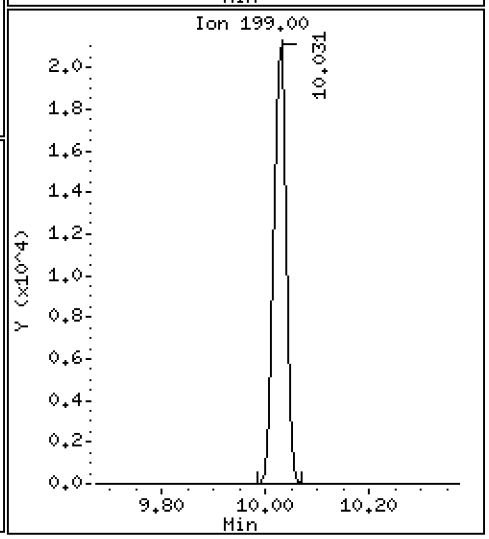












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

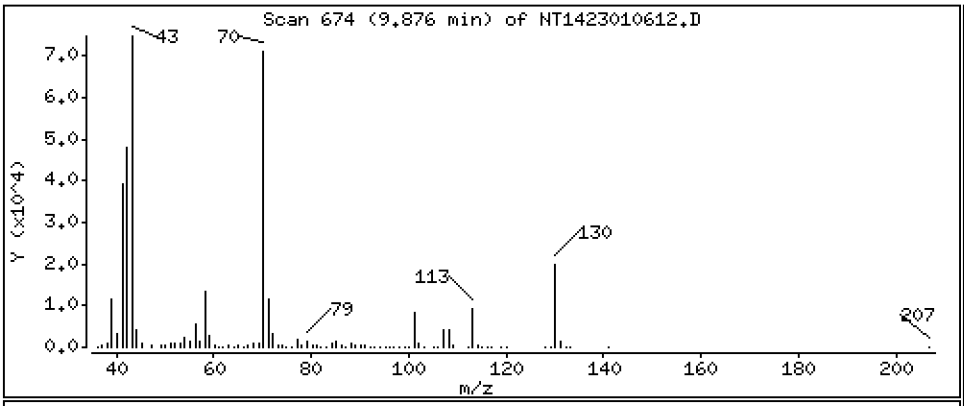
Operator: VTS

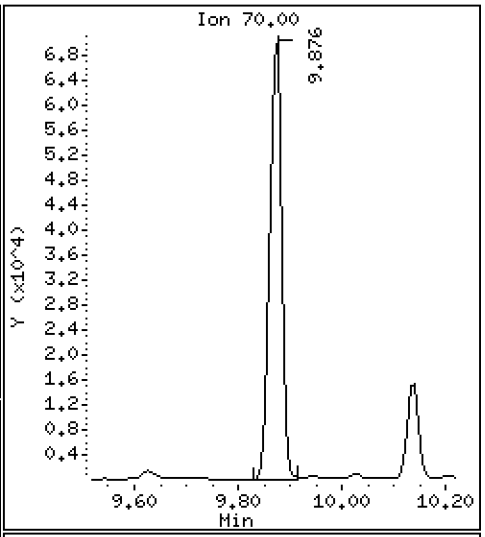
Column phase: ZB-5msi

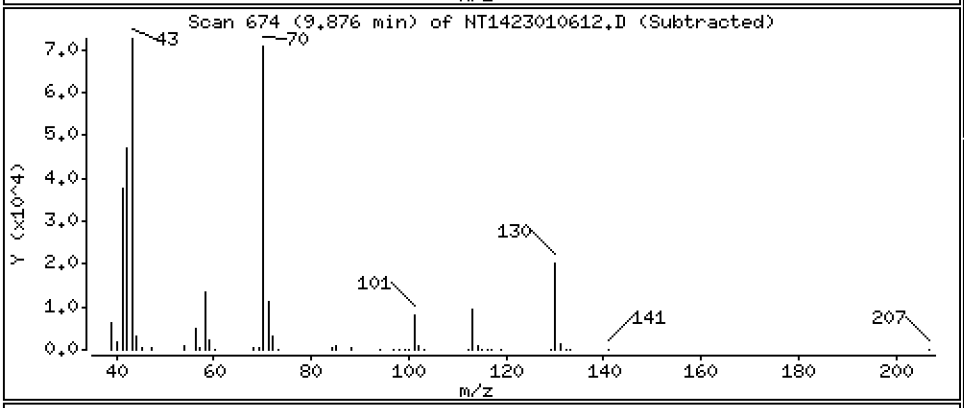
Column diameter: 0.25

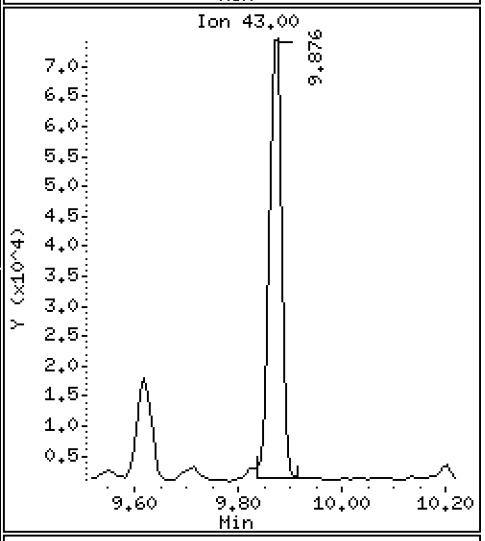
16 N-Nitroso-di-n-propylamine

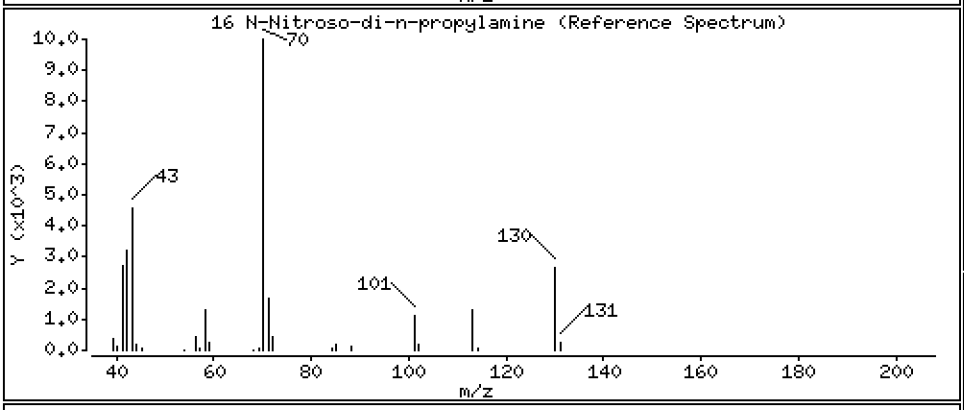
Concentration: 3.967 ug/mL

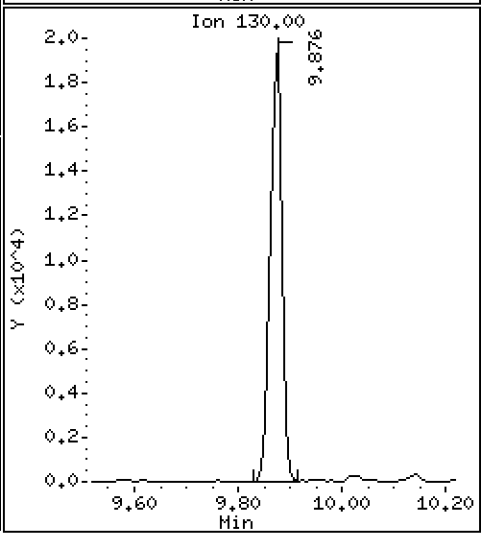


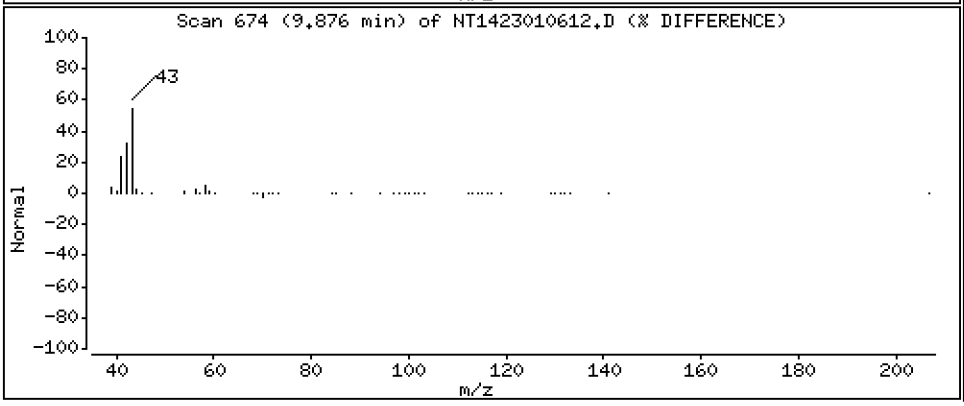












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

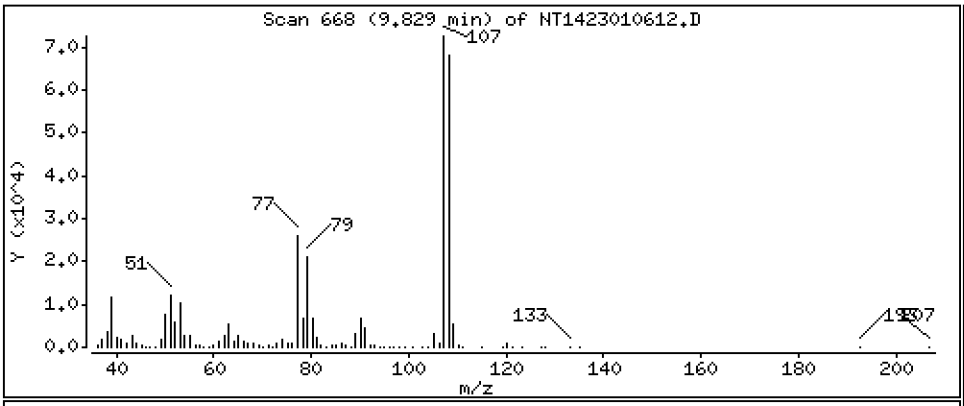
Operator: VTS

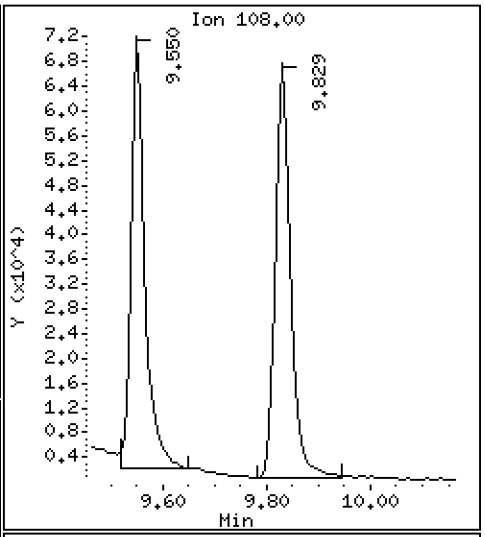
Column phase: ZB-5msi

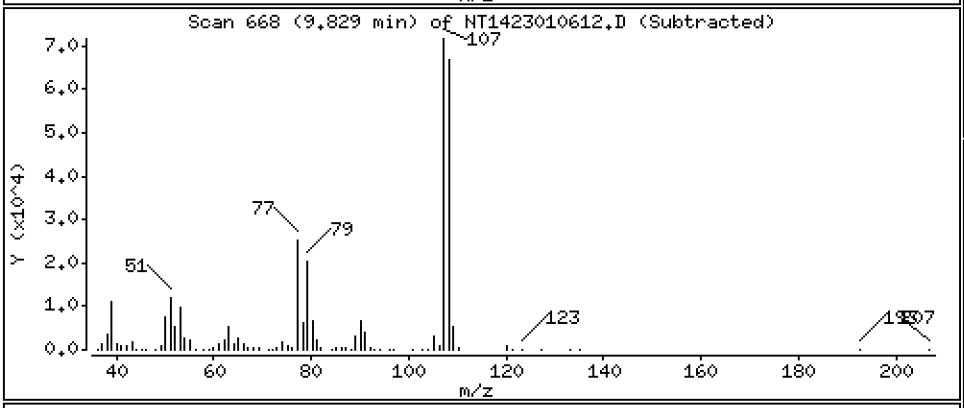
Column diameter: 0.25

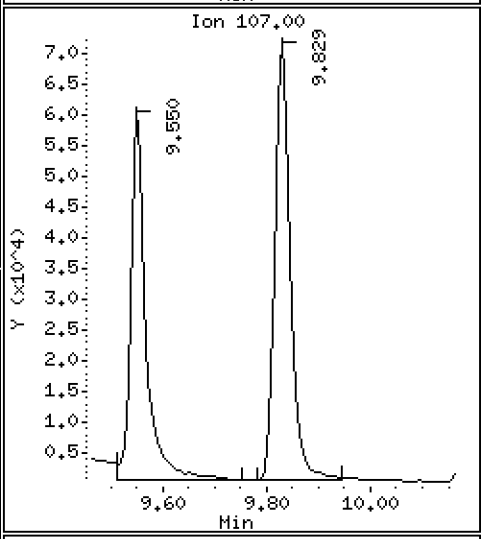
15 4-Methylphenol

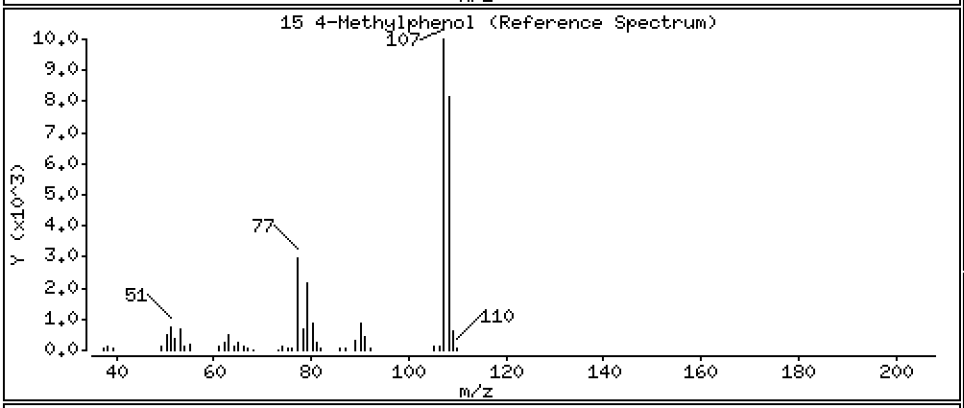
Concentration: 2.951 ug/mL

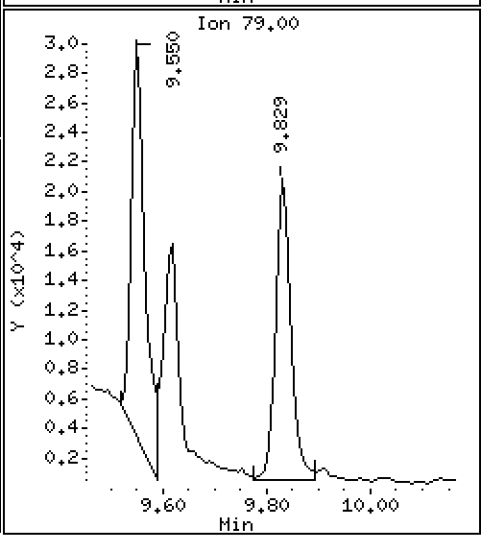


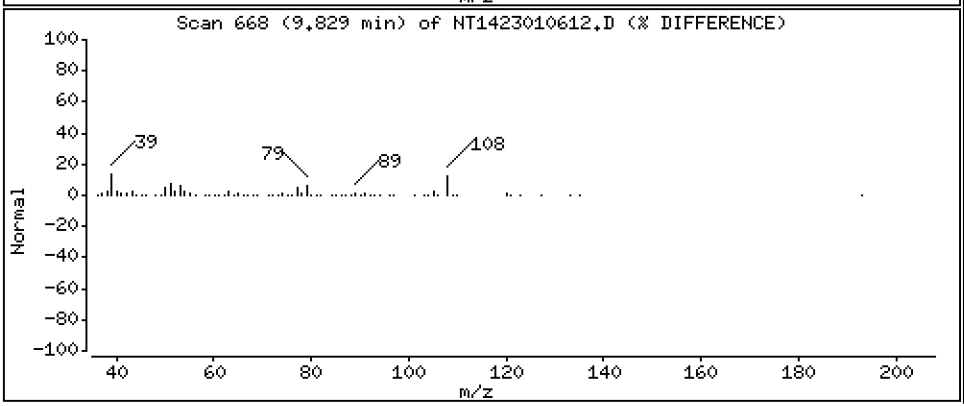












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

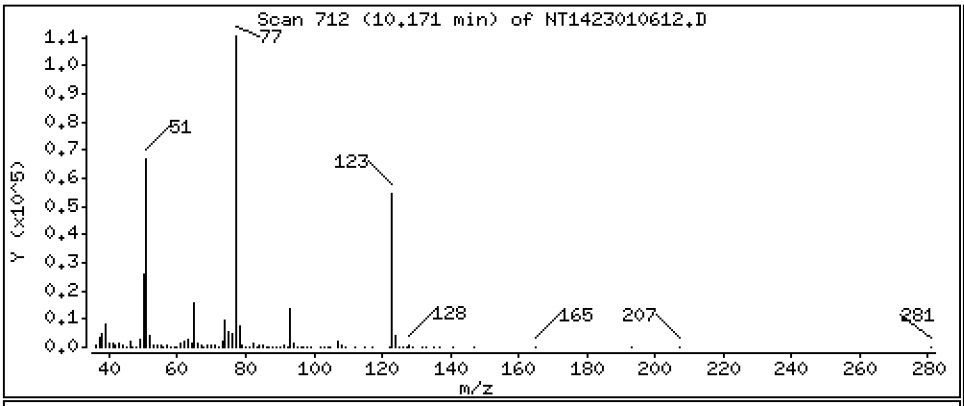
Operator: VTS

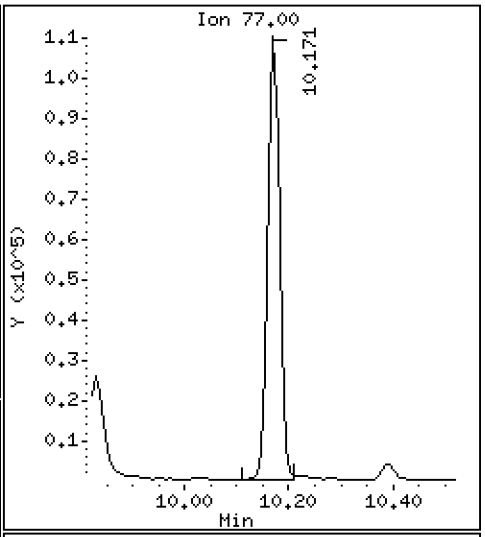
Column phase: ZB-5msi

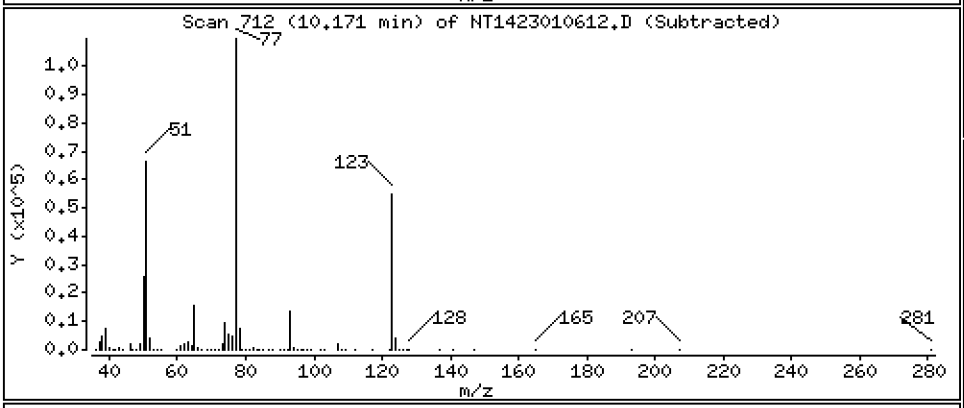
Column diameter: 0.25

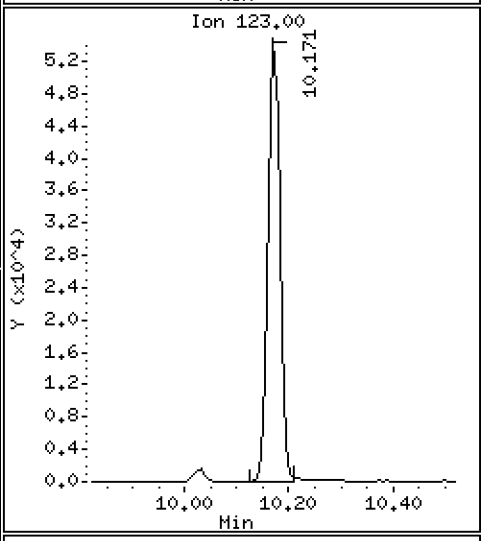
19 Nitrobenzene

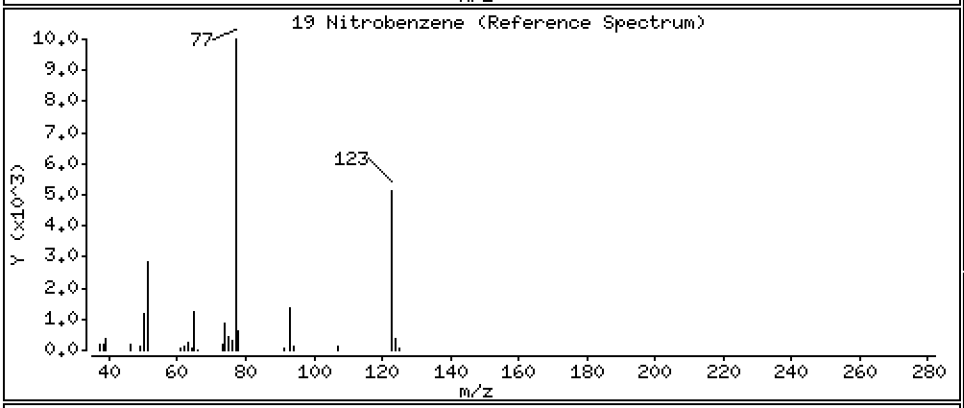
Concentration: 3.895 ug/mL

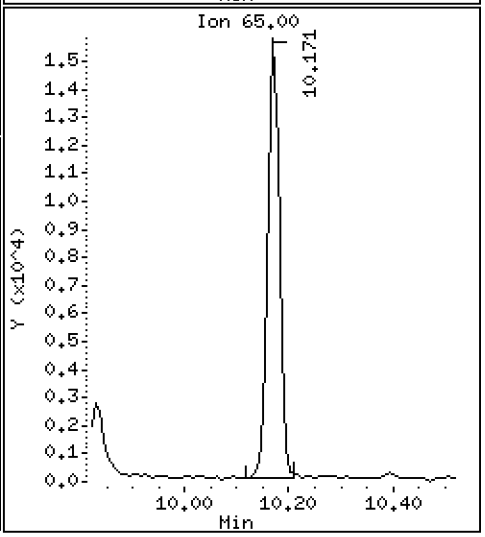


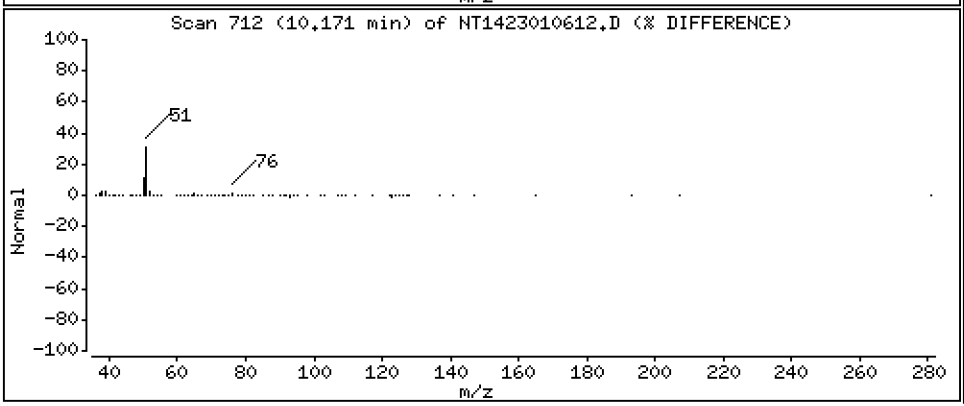












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

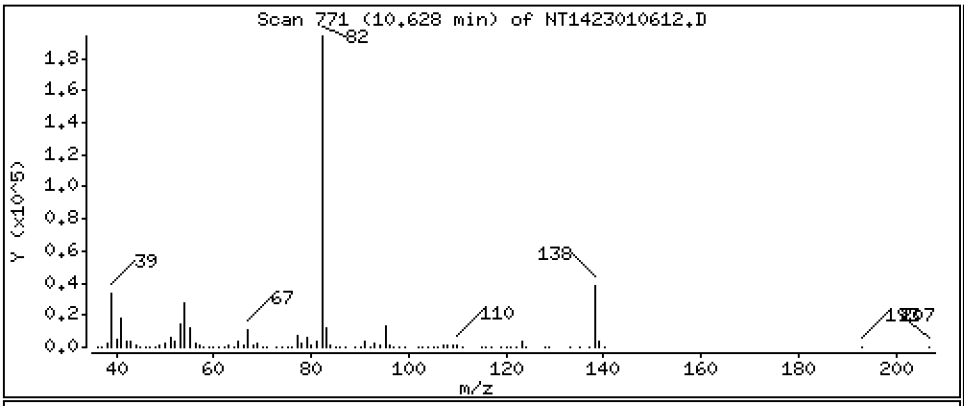
Operator: VTS

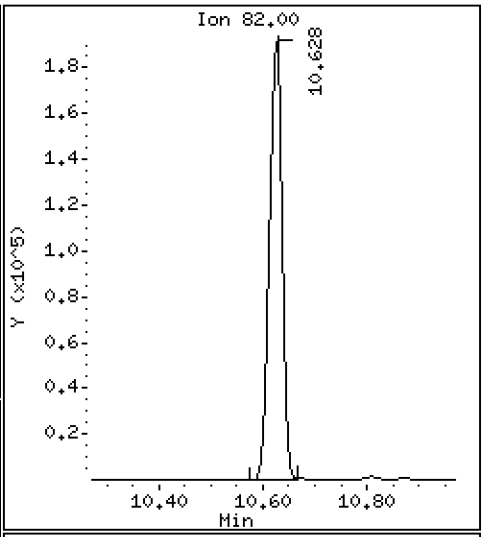
Column phase: ZB-5msi

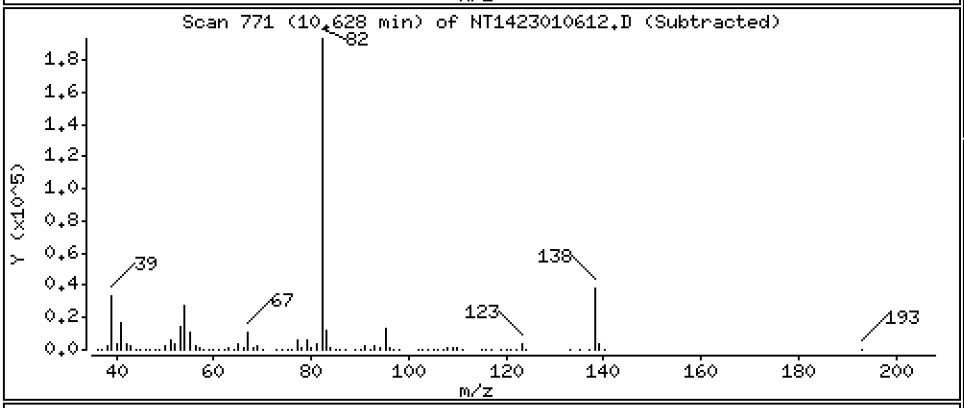
Column diameter: 0.25

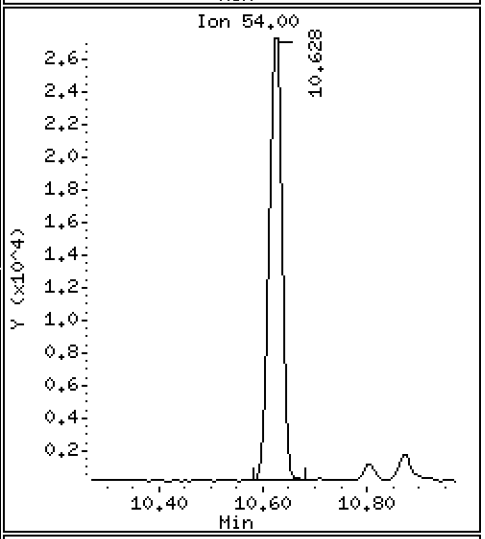
20 Isophorone

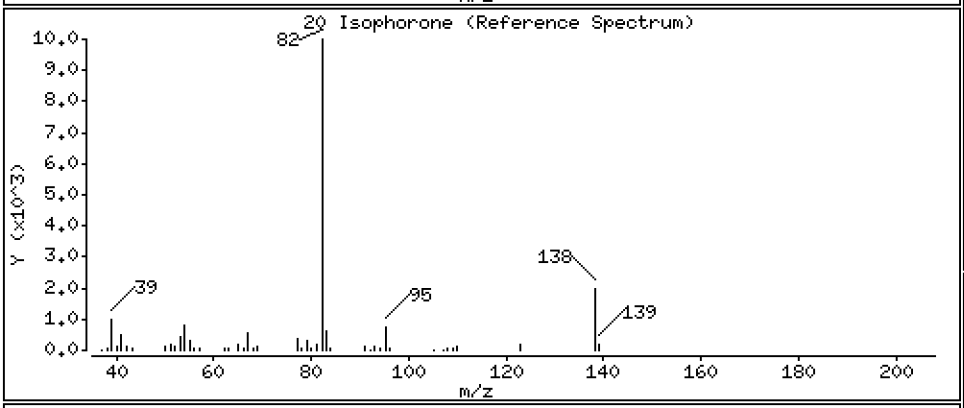
Concentration: 5.830 ug/mL

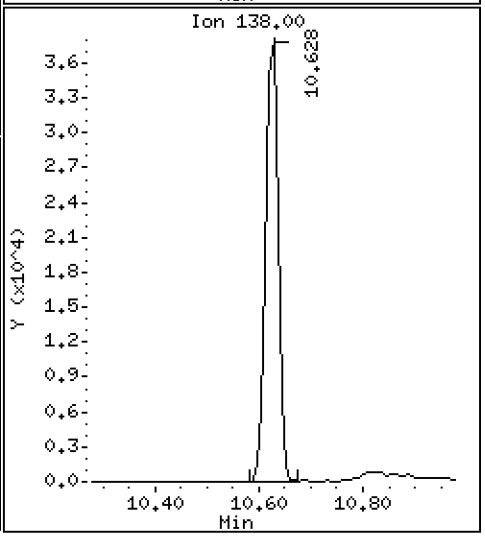


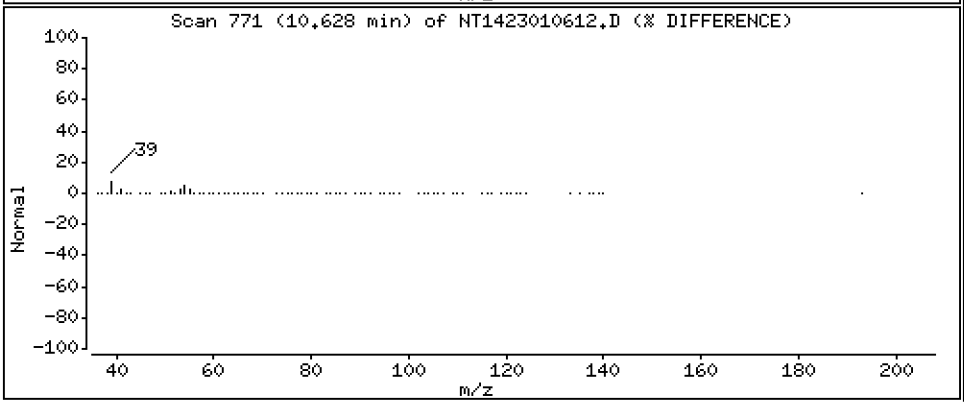












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

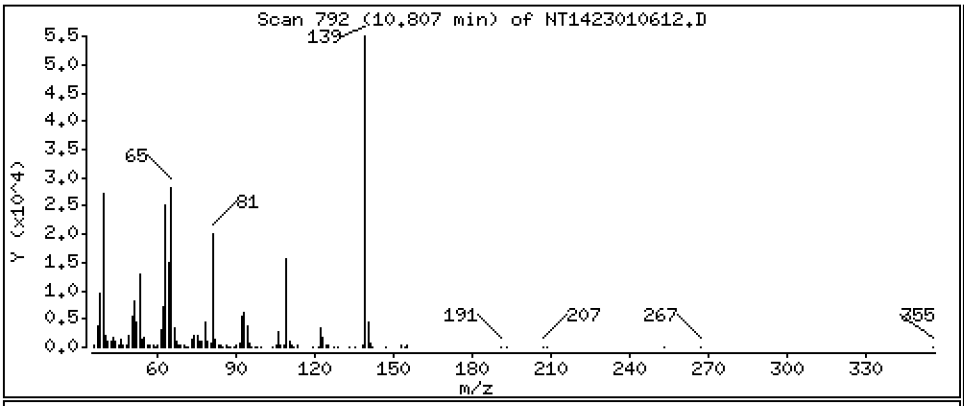
Operator: VTS

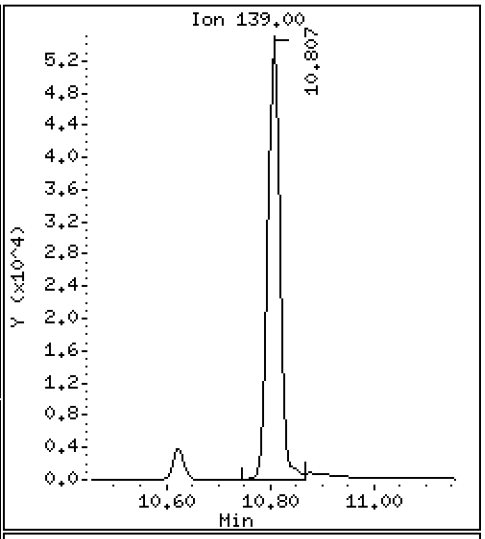
Column phase: ZB-5msi

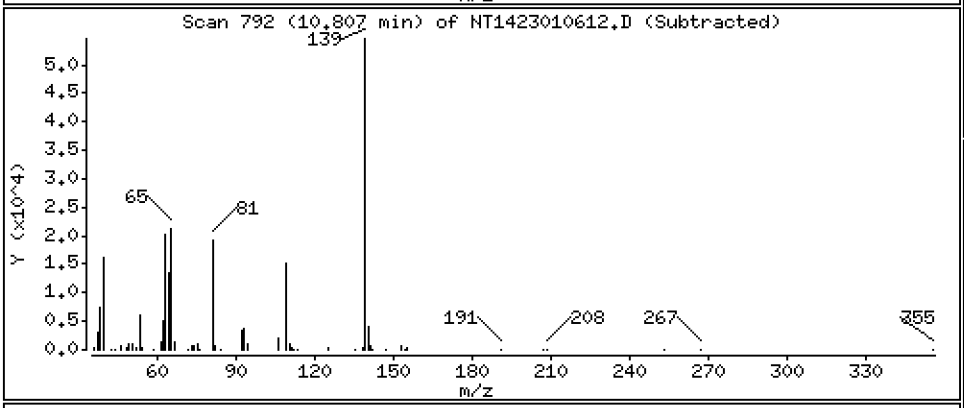
Column diameter: 0.25

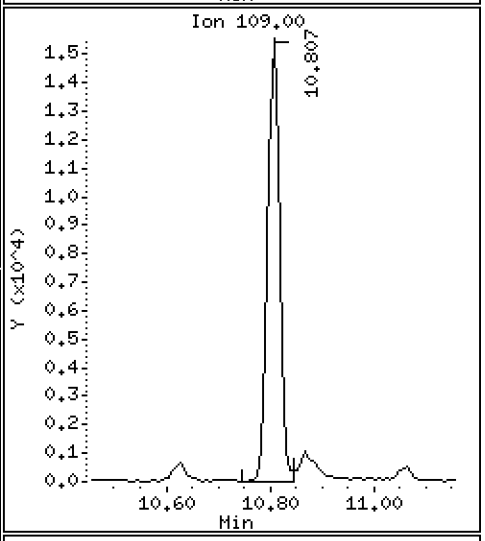
21 2-Nitrophenol

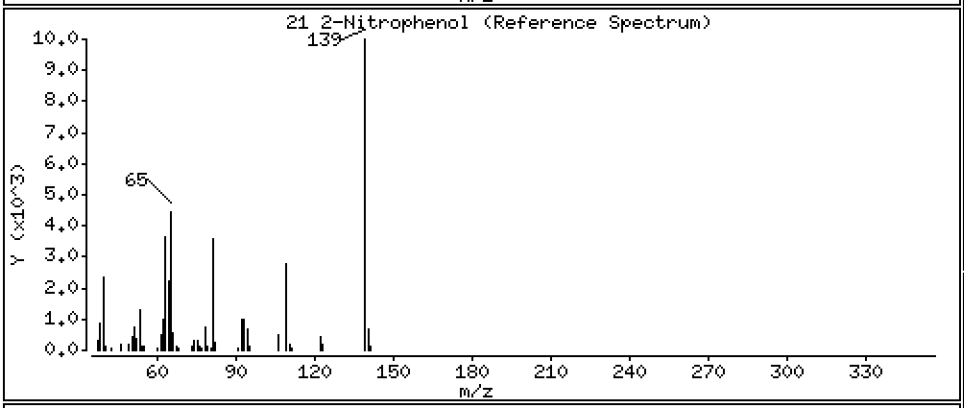
Concentration: 3.635 ug/mL

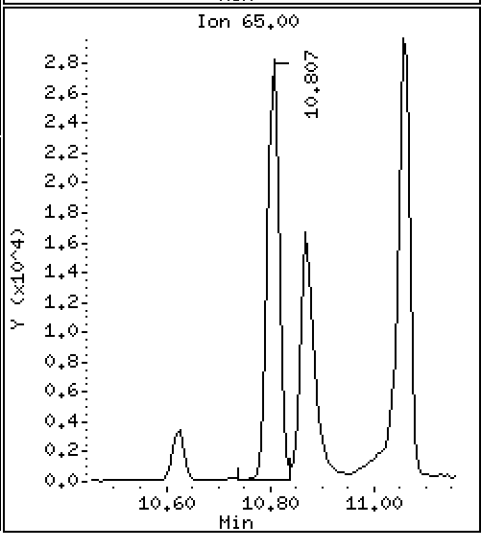


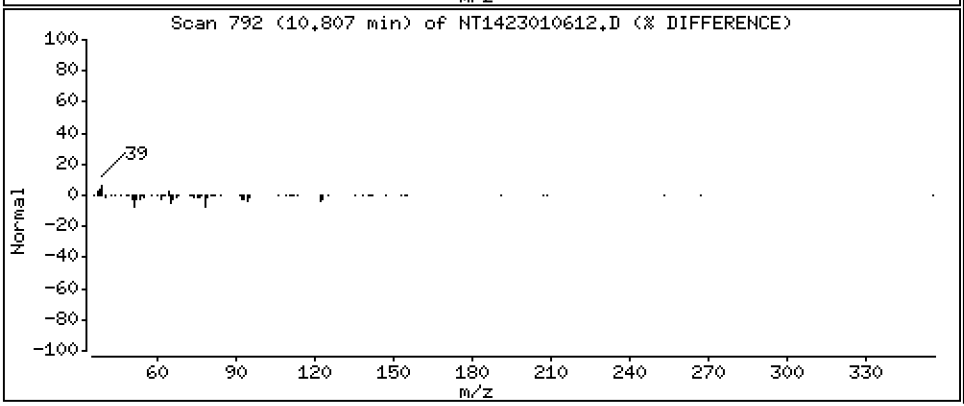












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

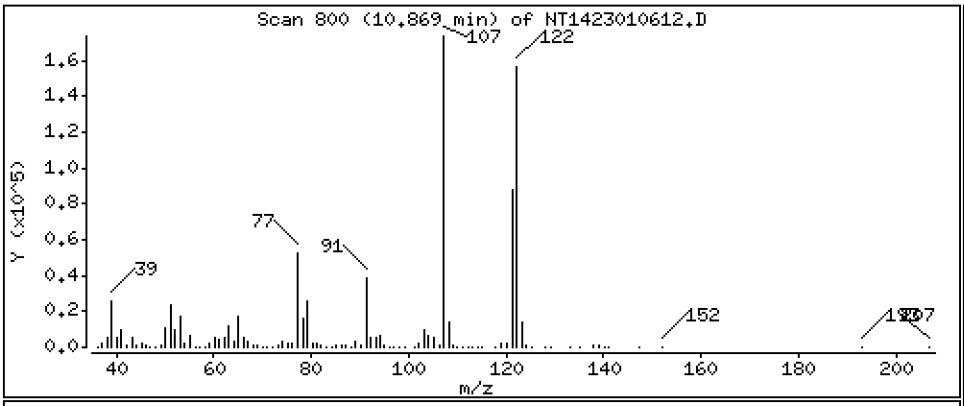
Operator: VTS

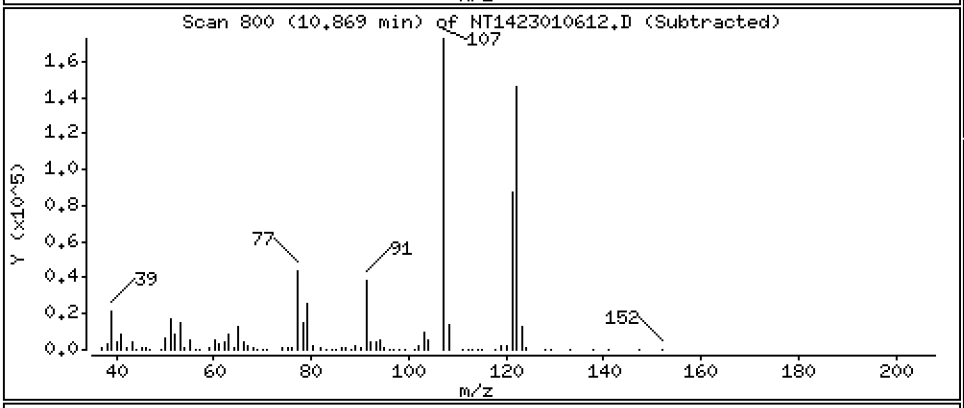
Column phase: ZB-5msi

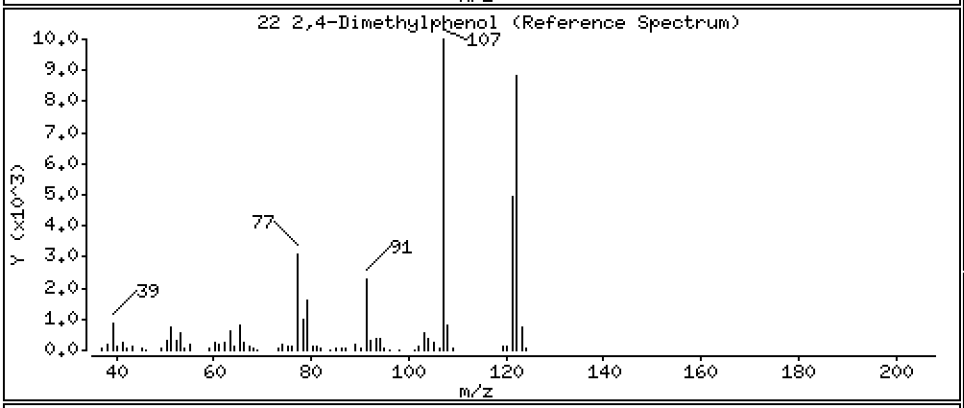
Column diameter: 0.25

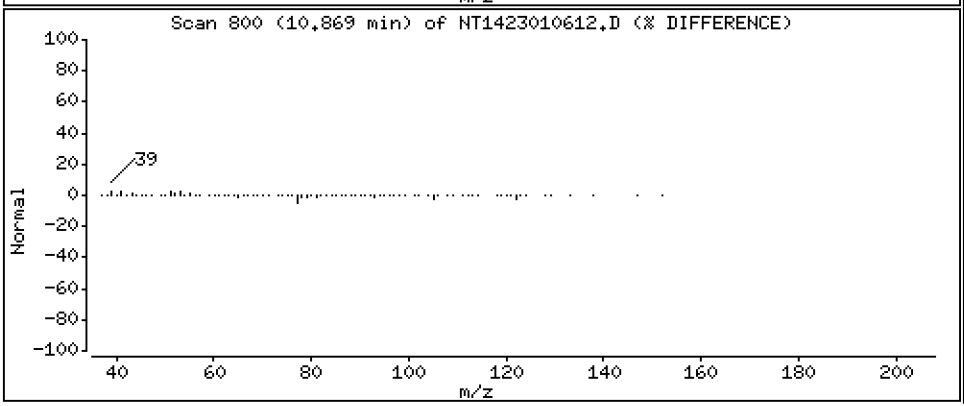
22 2,4-Dimethylphenol

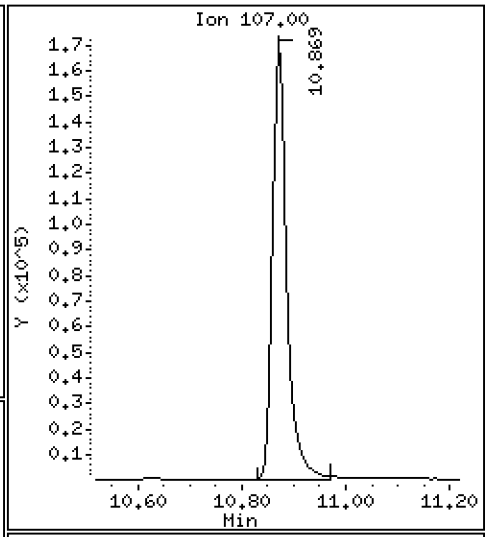
Concentration: 7.077 ug/mL

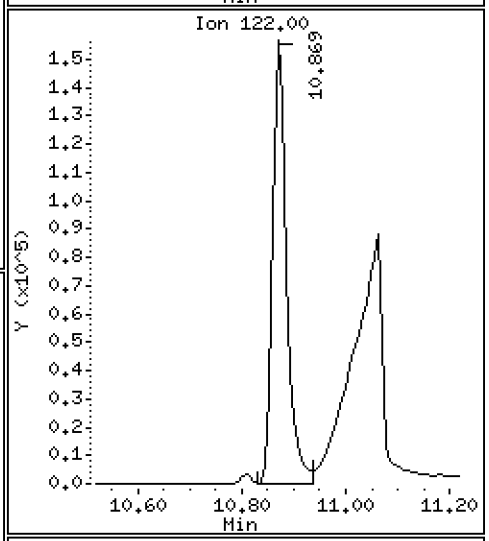


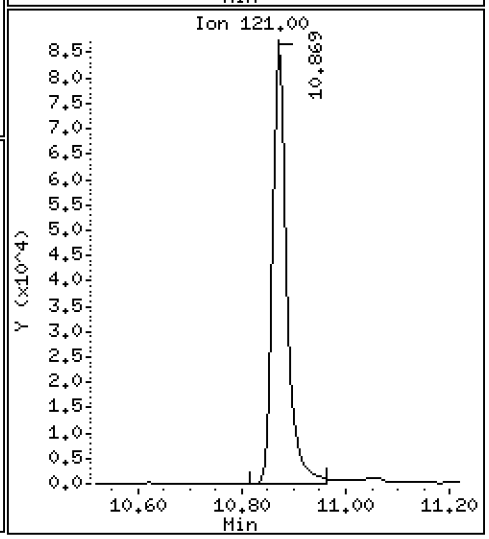












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

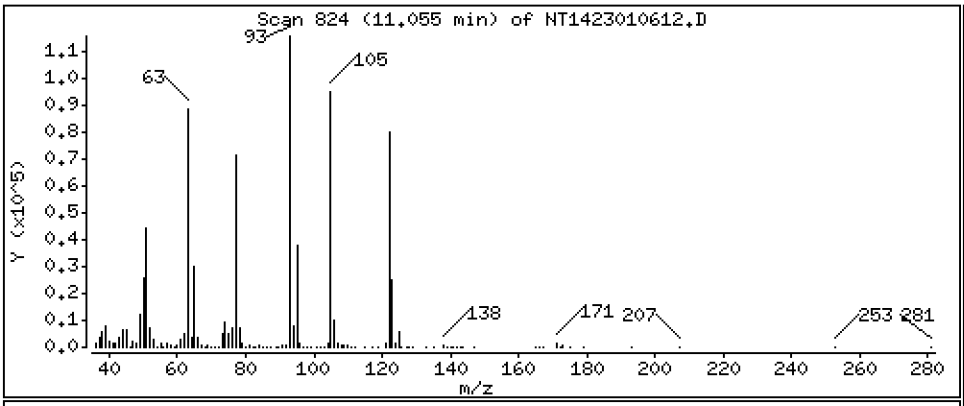
Operator: VTS

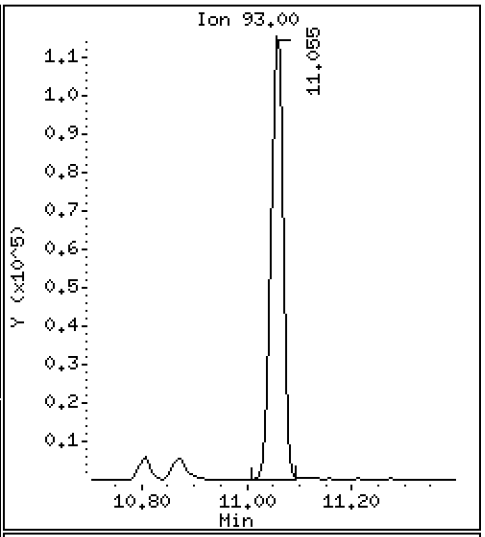
Column phase: ZB-5msi

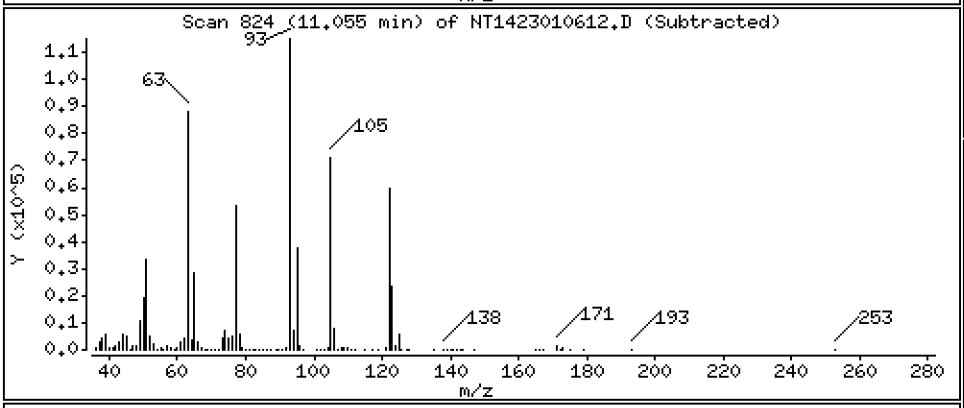
Column diameter: 0.25

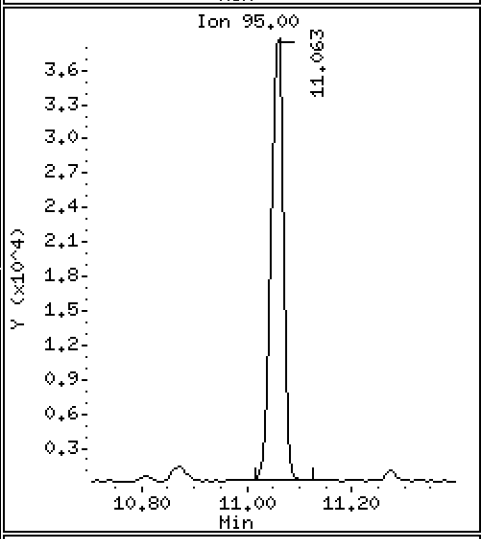
23 Bis(2-Chloroethoxy)methane

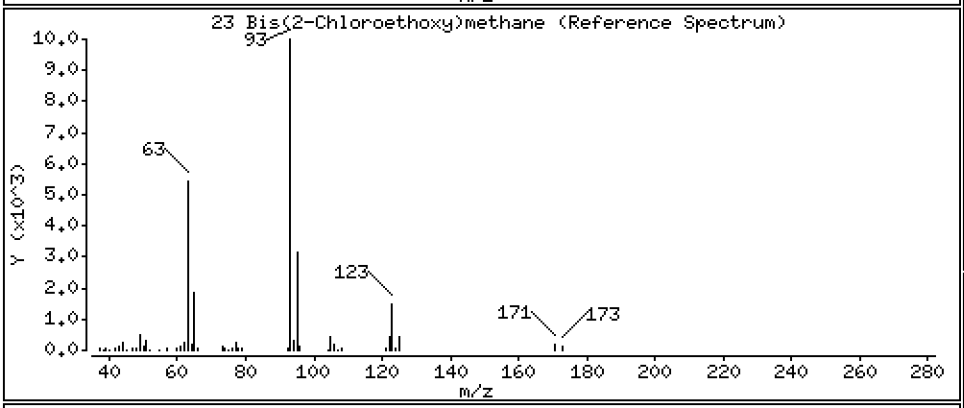
Concentration: 4.303 ug/mL

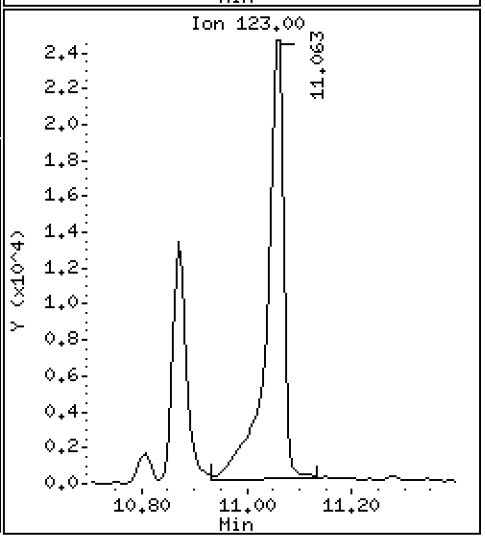


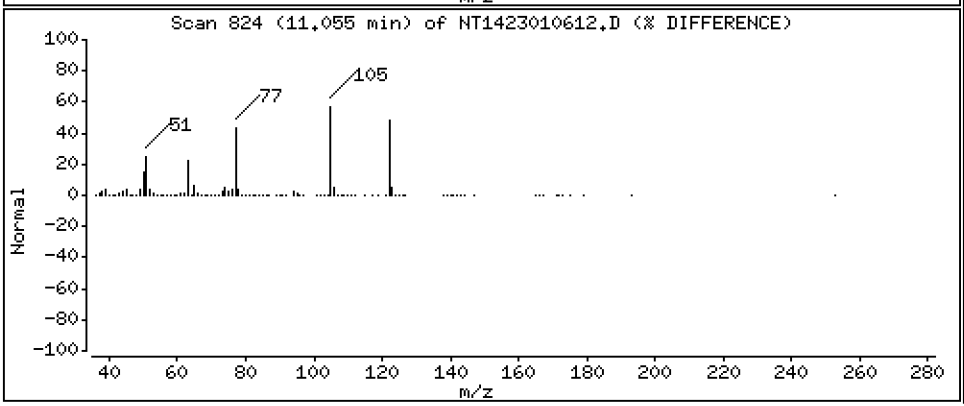












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

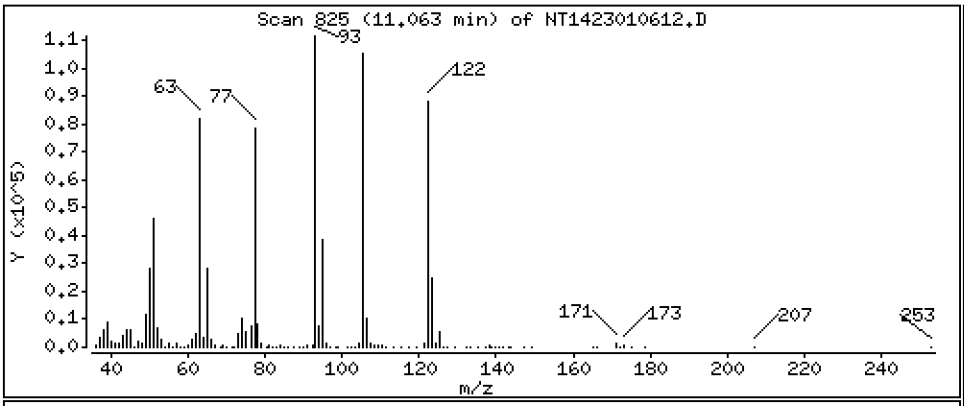
Operator: VTS

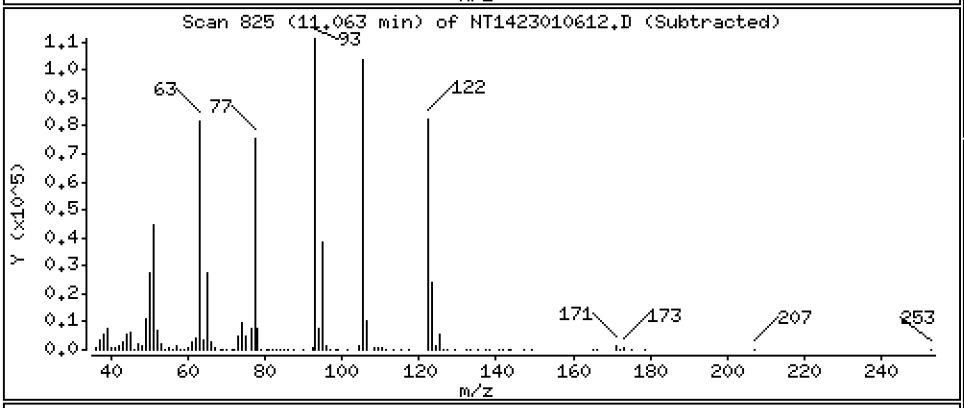
Column phase: ZB-5msi

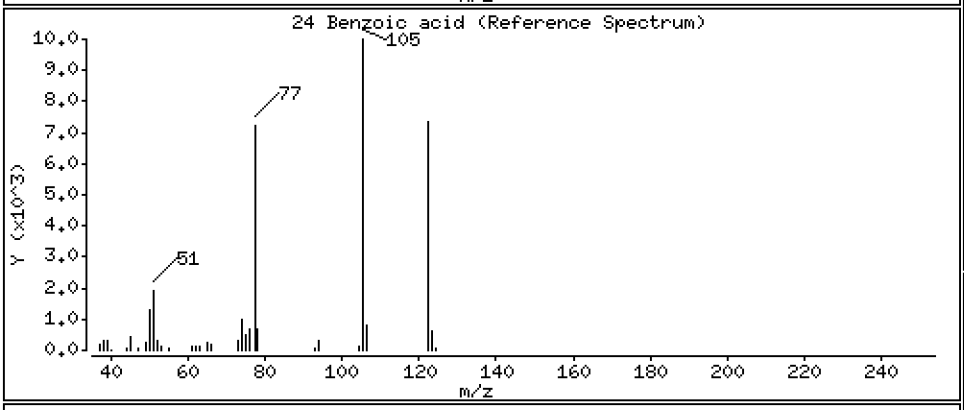
Column diameter: 0.25

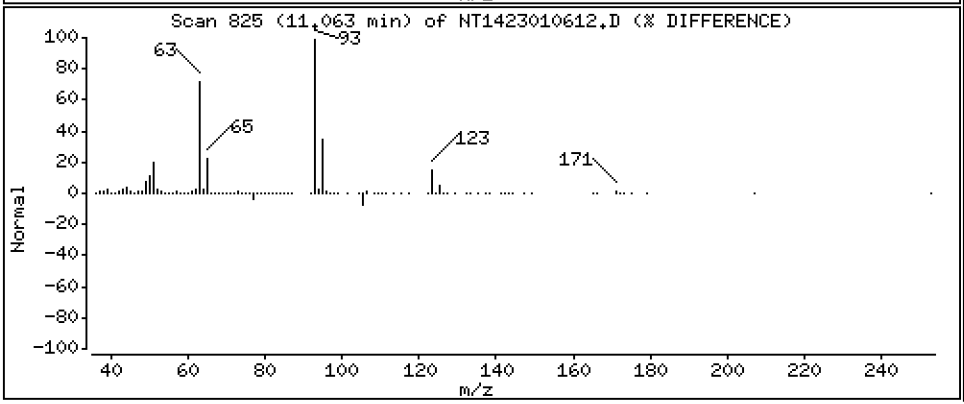
24 Benzoic acid

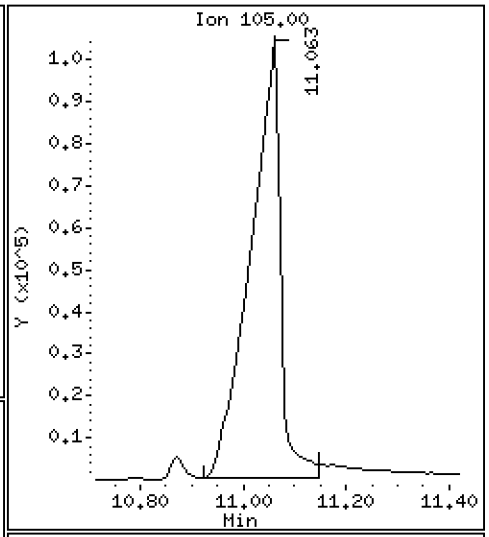
Concentration: 15.13 ug/mL

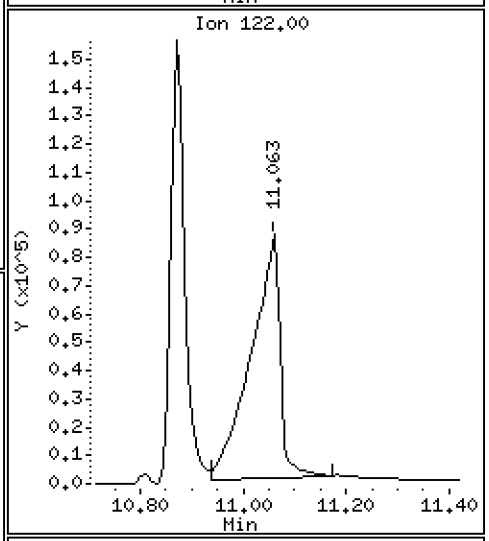


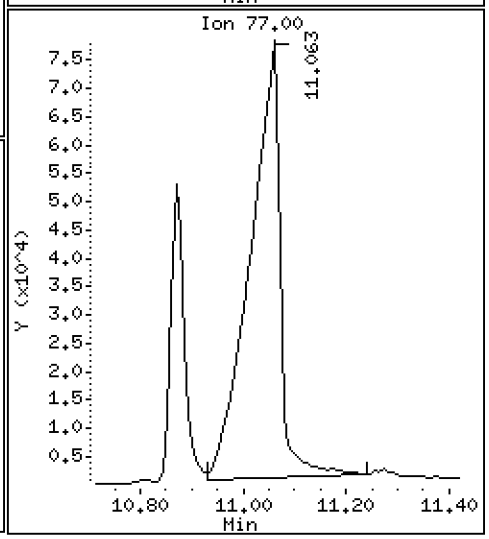












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

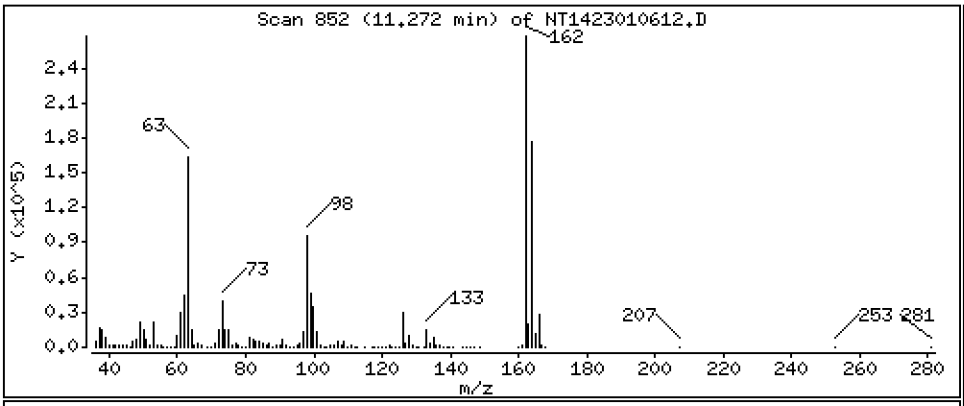
Operator: VTS

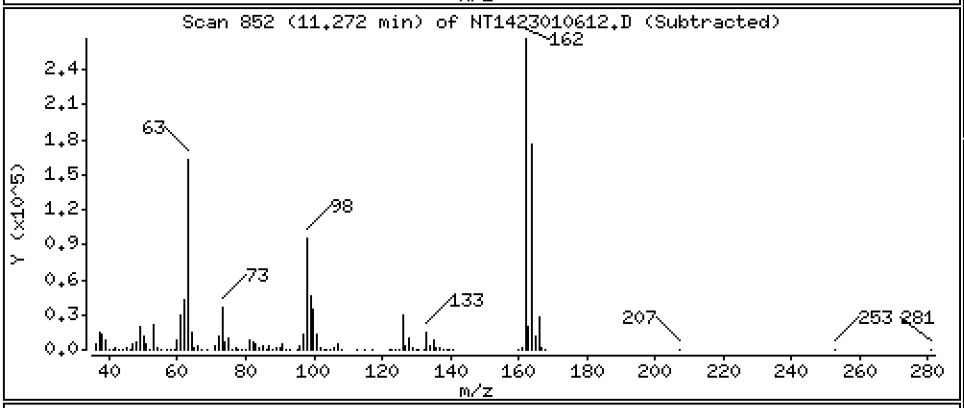
Column phase: ZB-5msi

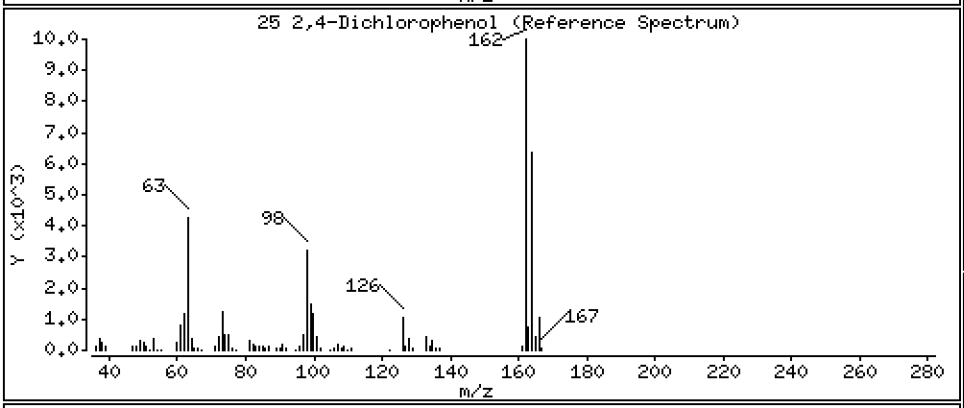
Column diameter: 0.25

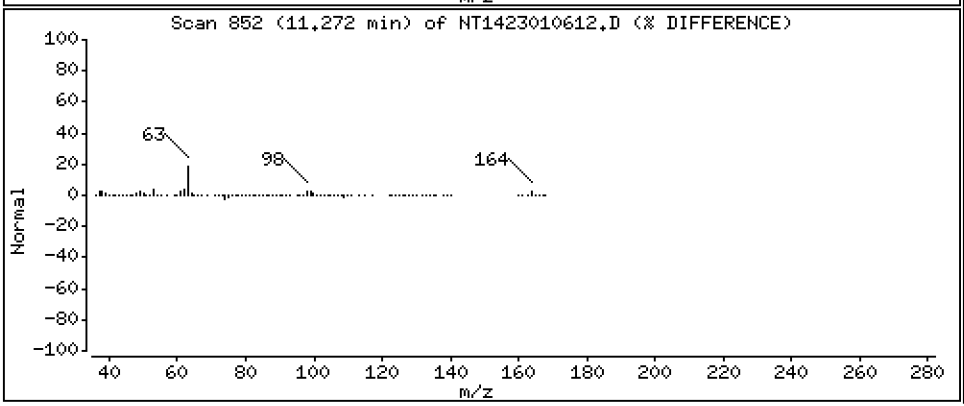
25 2,4-Dichlorophenol

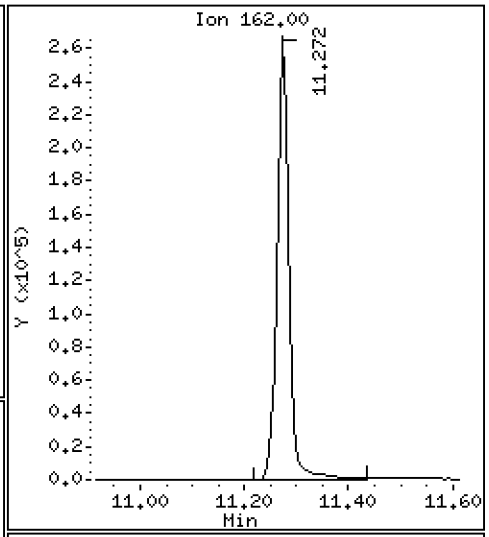
Concentration: 12.57 ug/mL

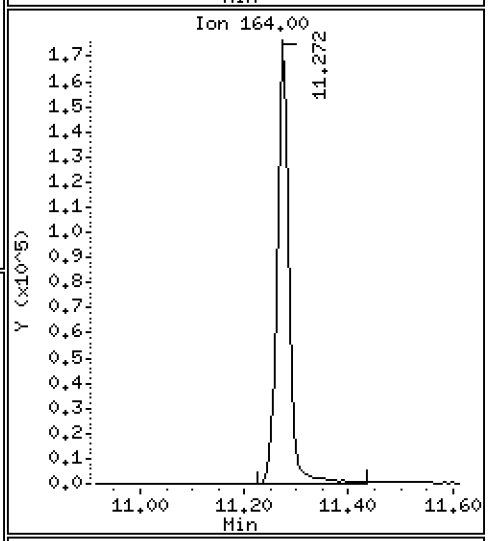


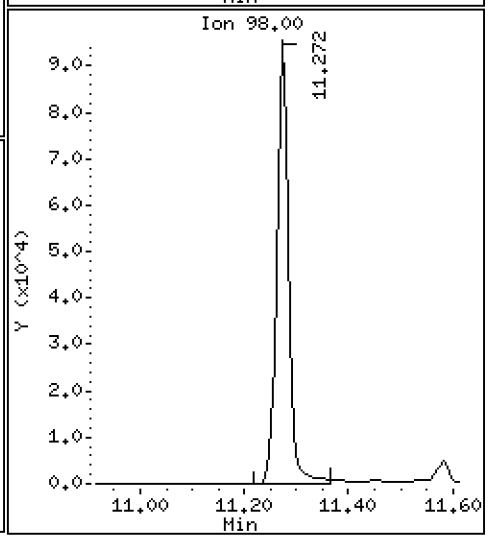












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

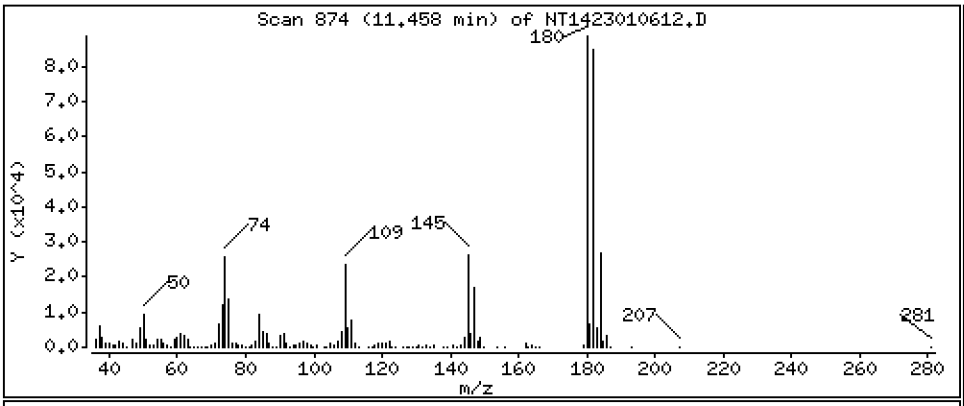
Operator: VTS

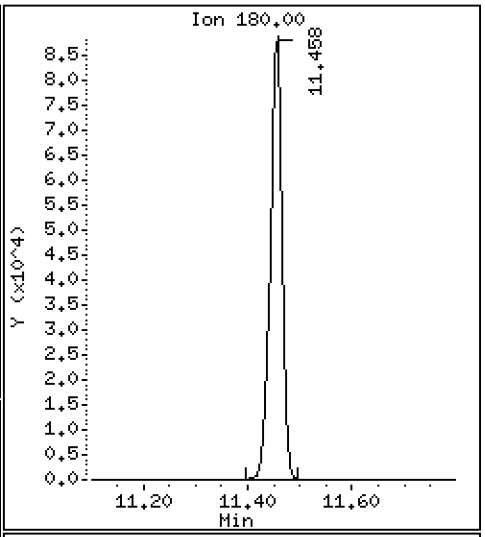
Column phase: ZB-5msi

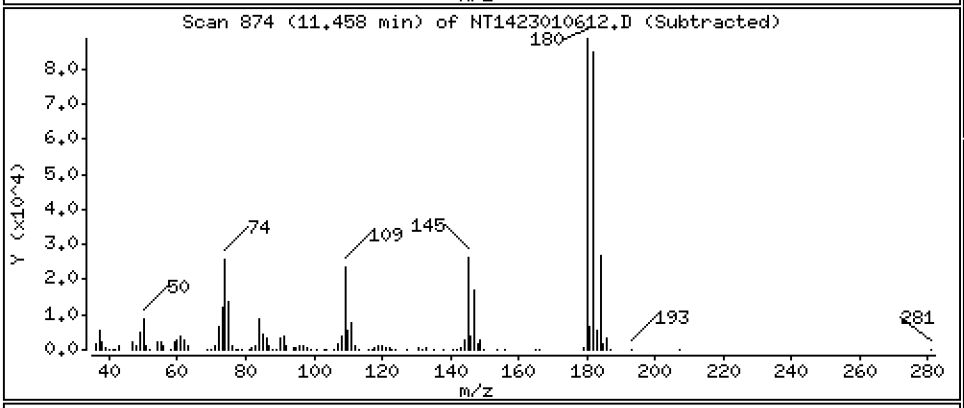
Column diameter: 0.25

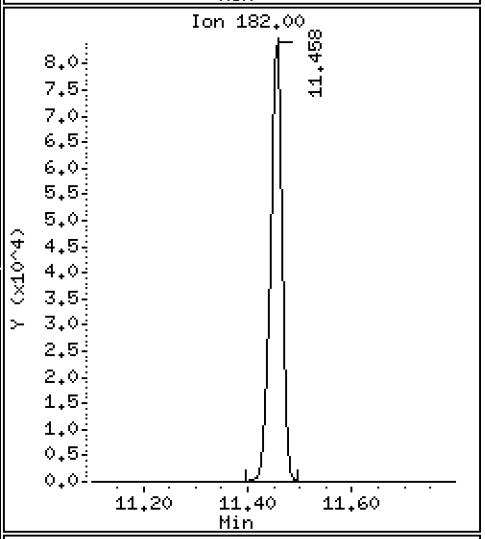
26 1,2,4-Trichlorobenzene

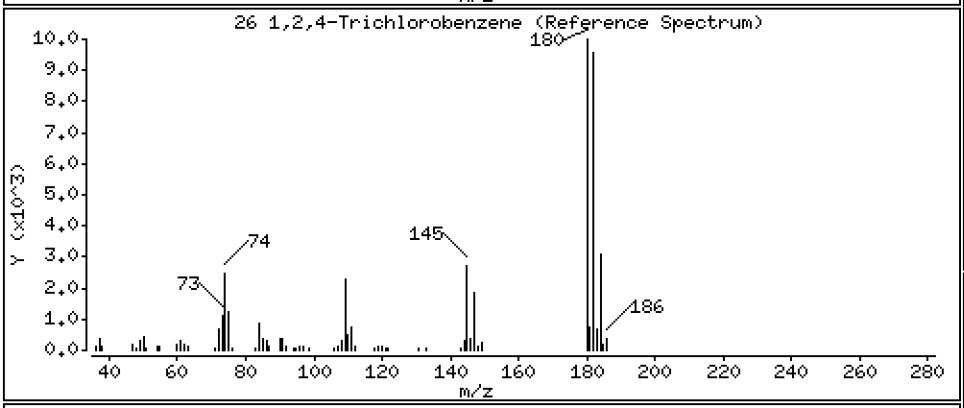
Concentration: 4.120 ug/mL

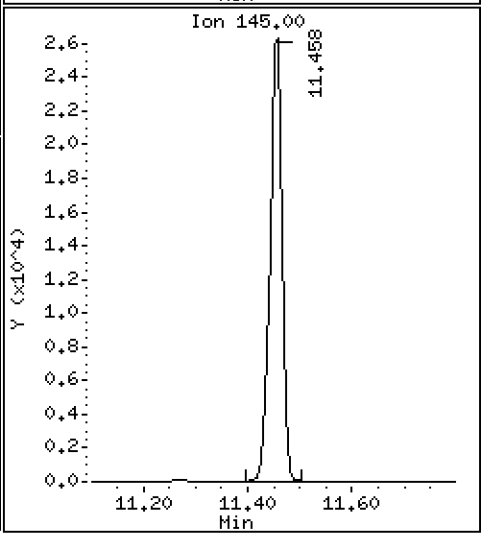


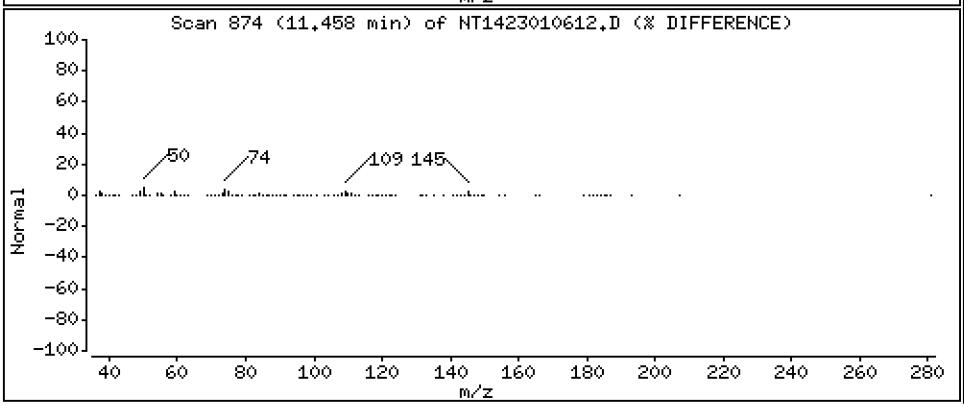












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

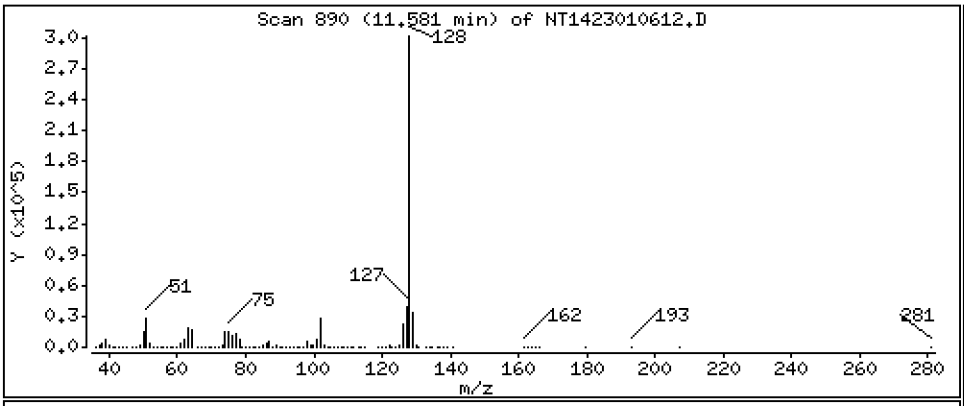
Operator: VTS

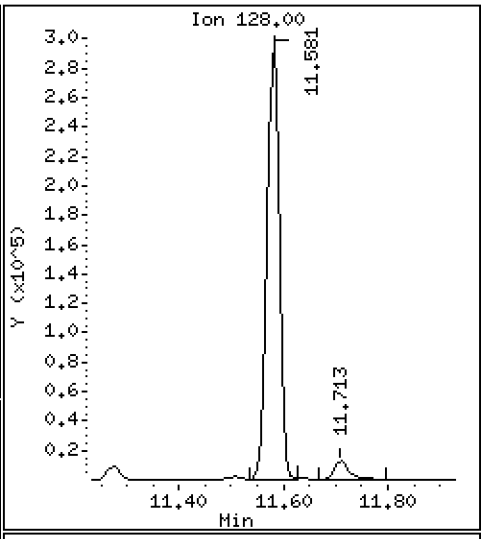
Column phase: ZB-5msi

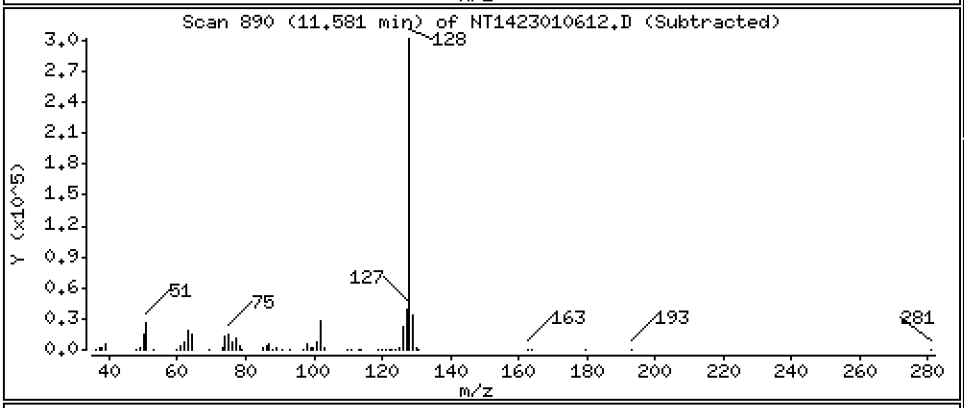
Column diameter: 0.25

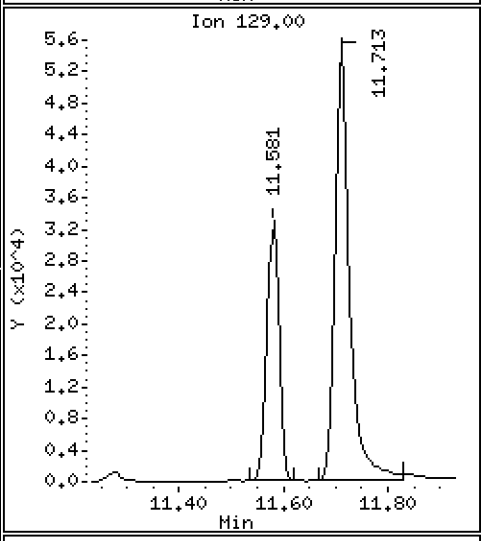
28 Naphthalene

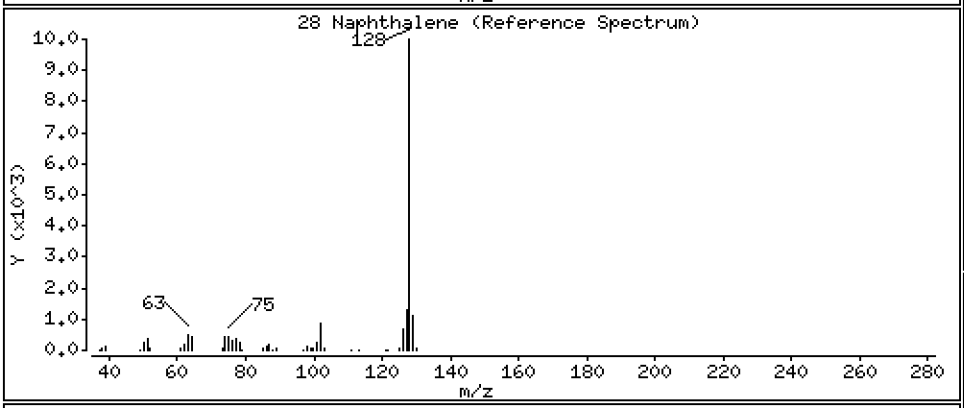
Concentration: 3.697 ug/mL

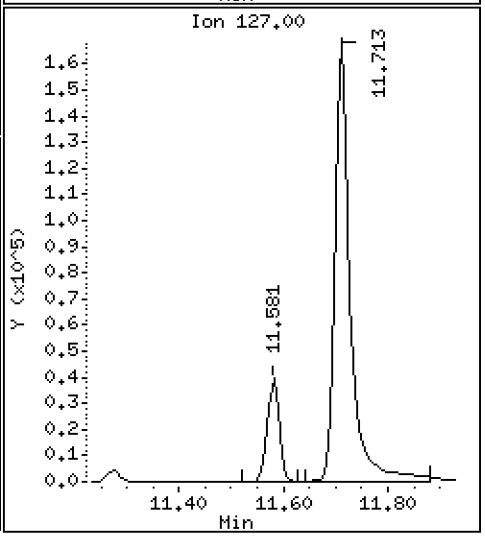


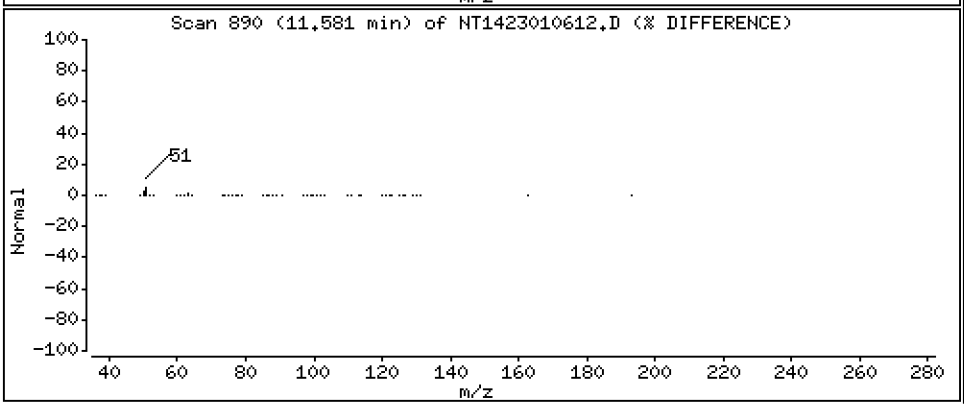












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

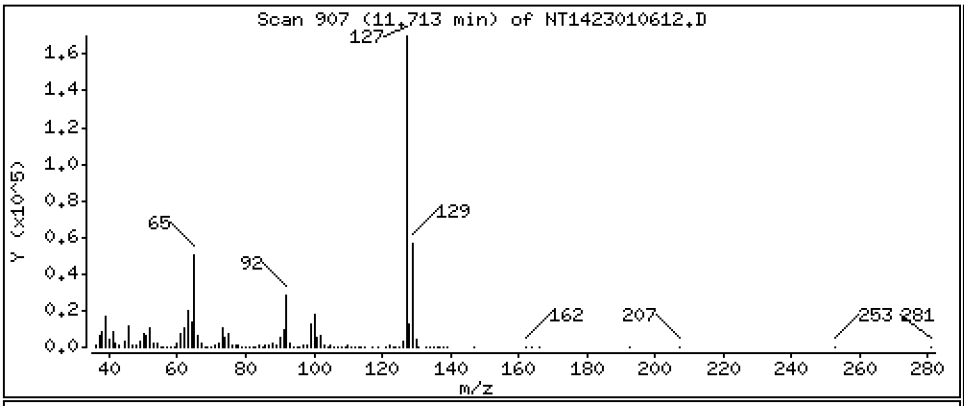
Operator: VTS

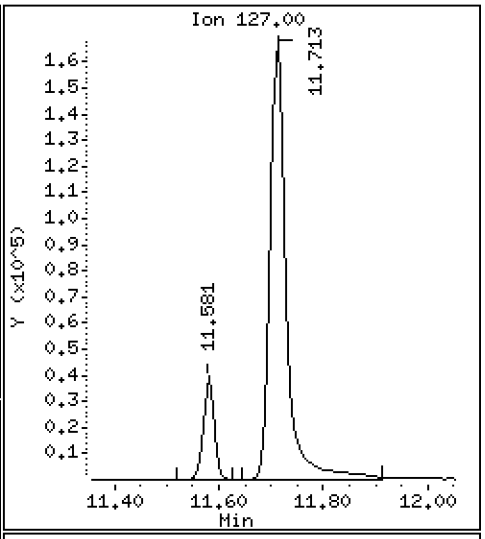
Column phase: ZB-5msi

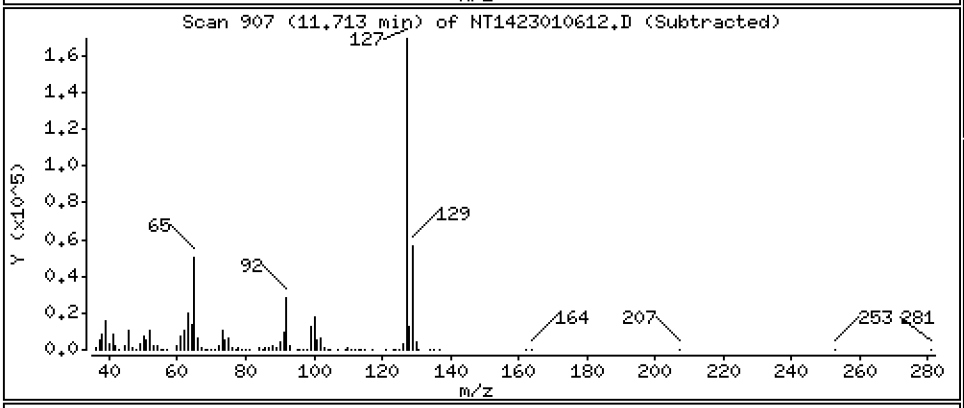
Column diameter: 0.25

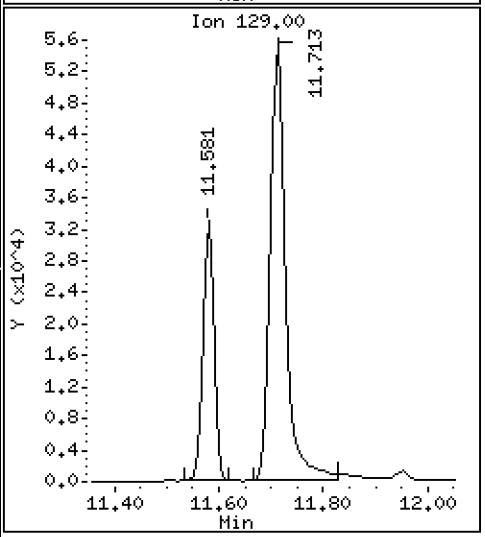
29 4-Chloroaniline

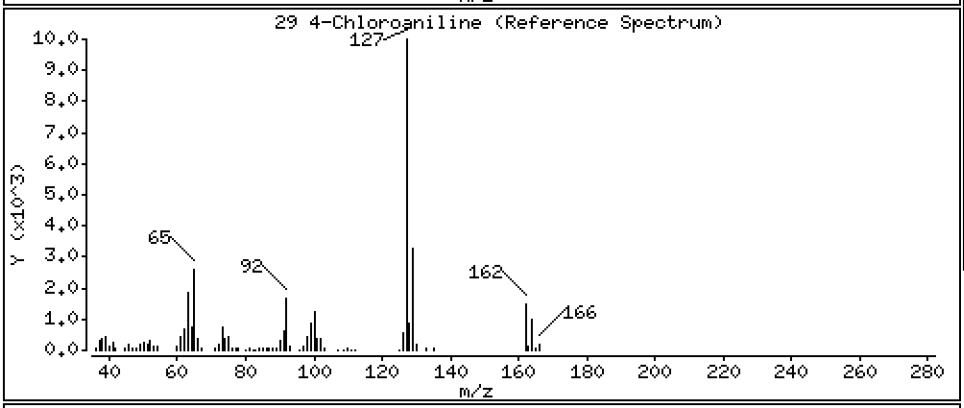
Concentration: 7.222 ug/mL

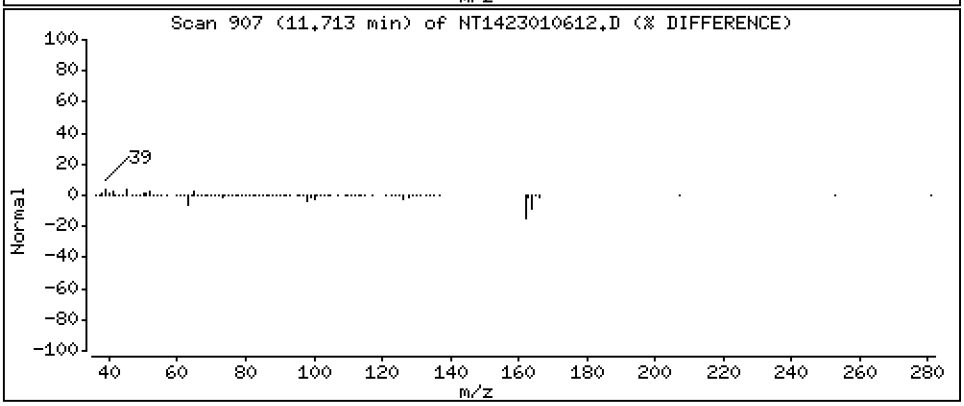












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

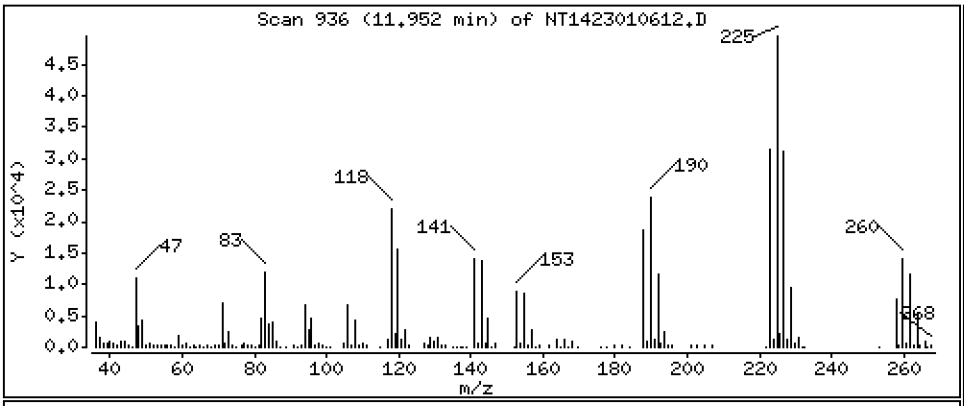
Operator: VTS

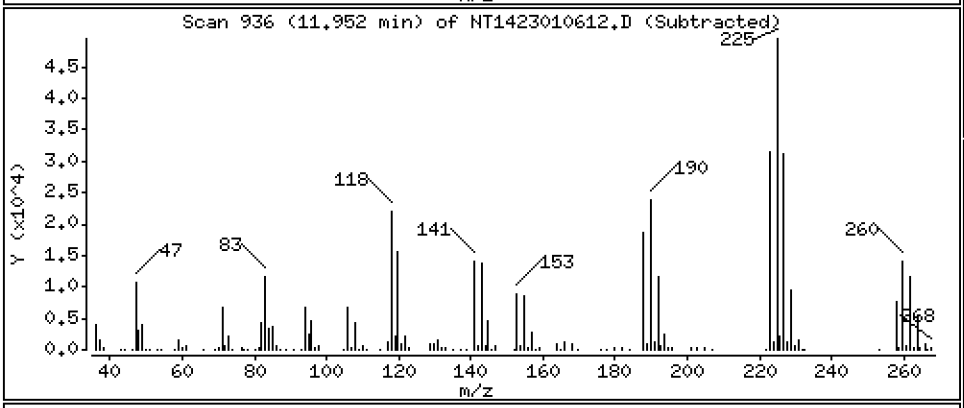
Column phase: ZB-5msi

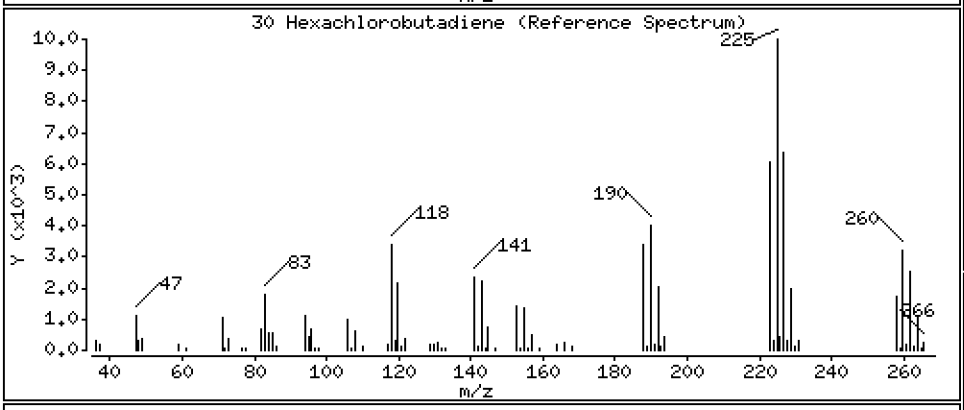
Column diameter: 0.25

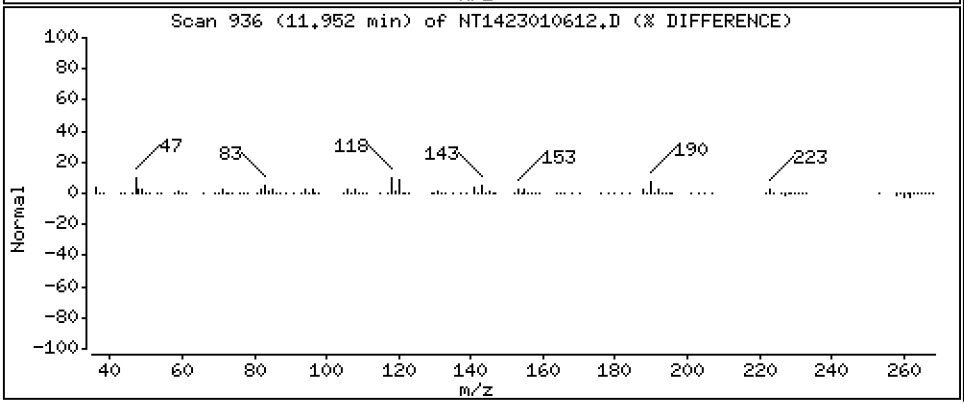
30 Hexachlorobutadiene

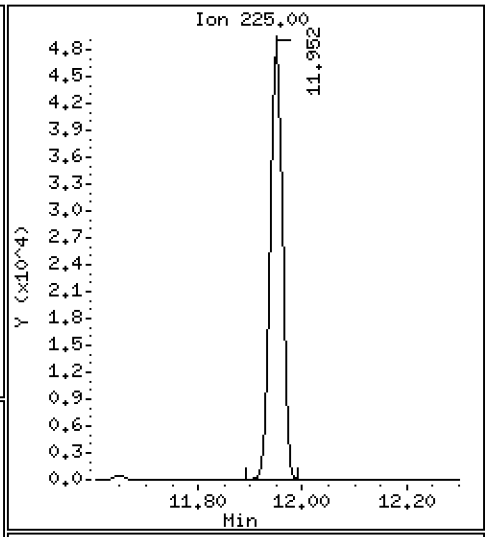
Concentration: 4.487 ug/mL

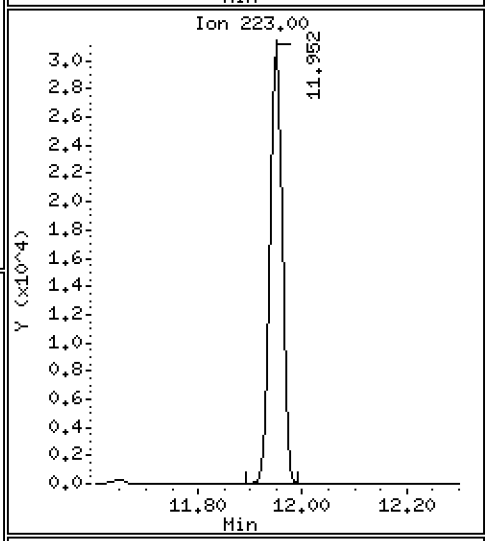


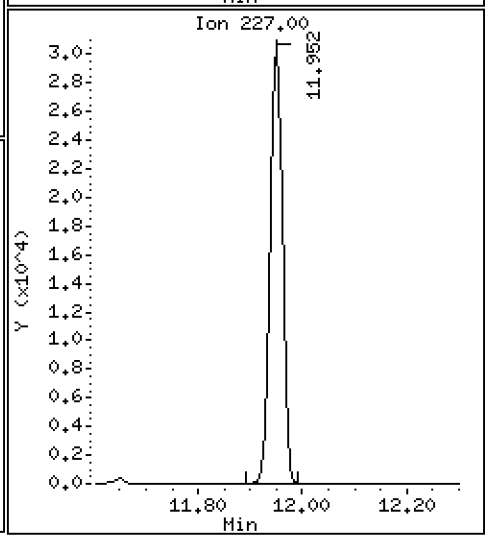












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

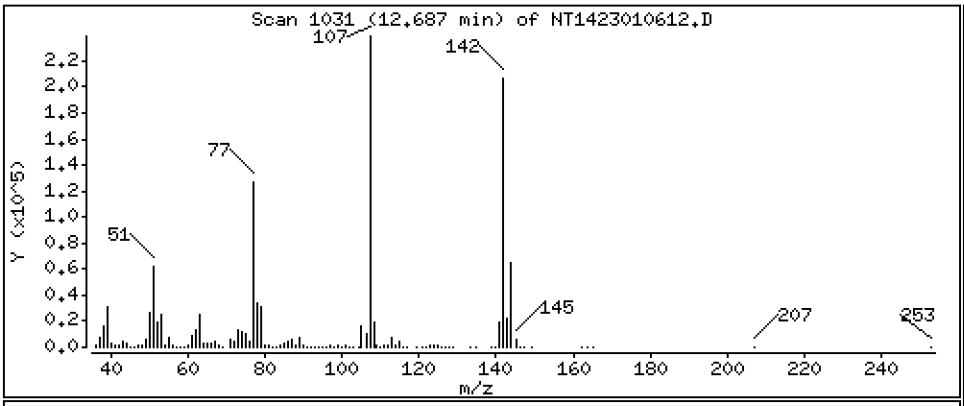
Operator: VTS

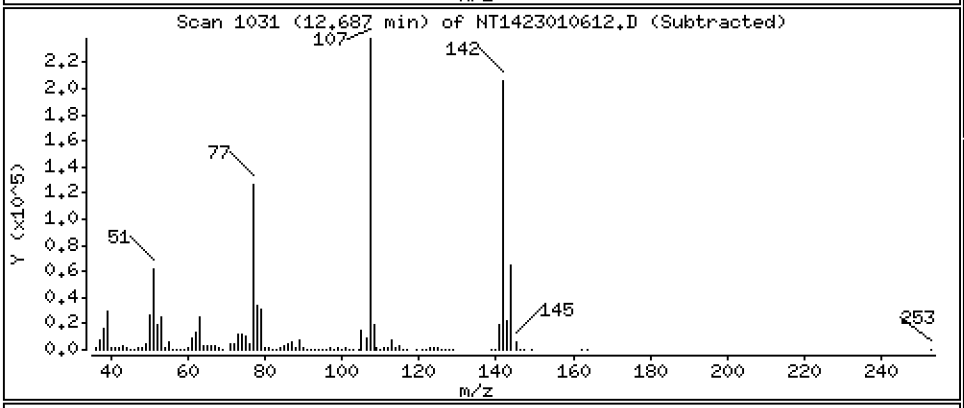
Column phase: ZB-5msi

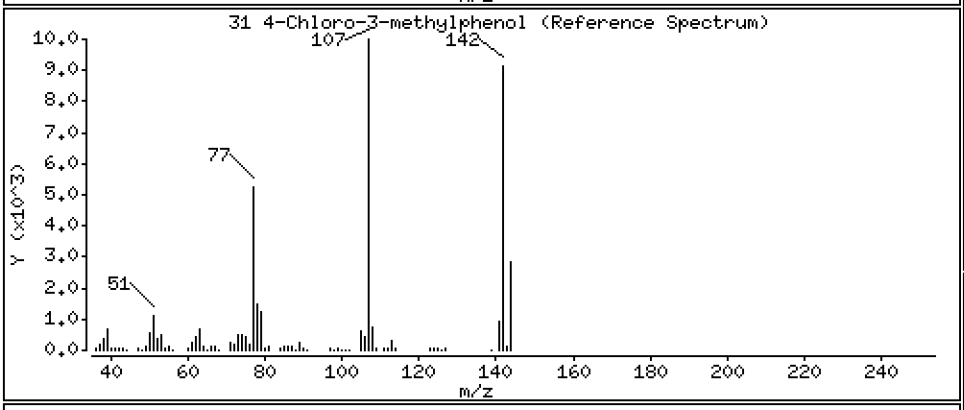
Column diameter: 0.25

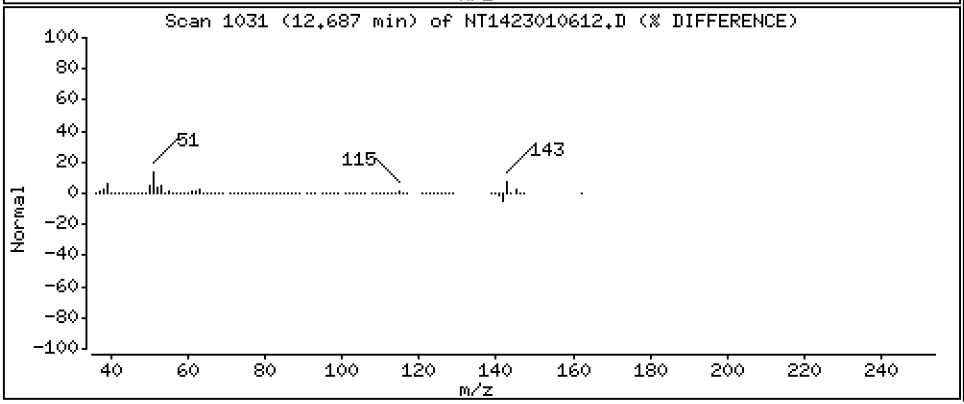
31 4-Chloro-3-methylphenol

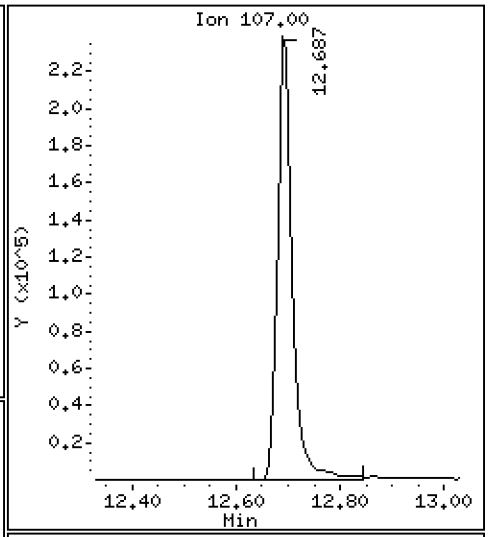
Concentration: 13.57 ug/mL

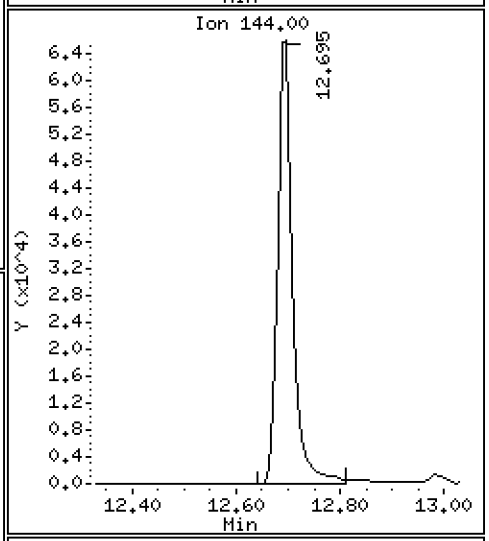


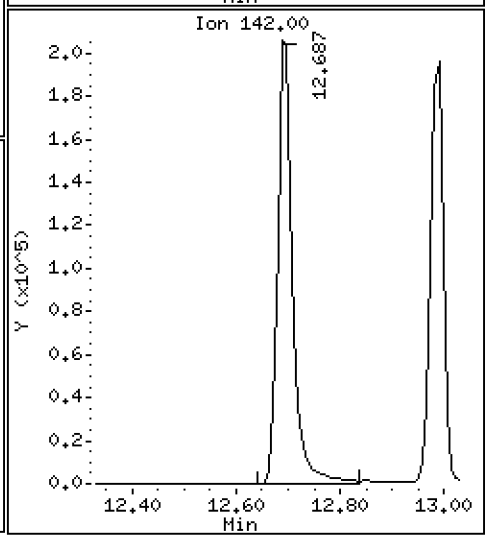












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

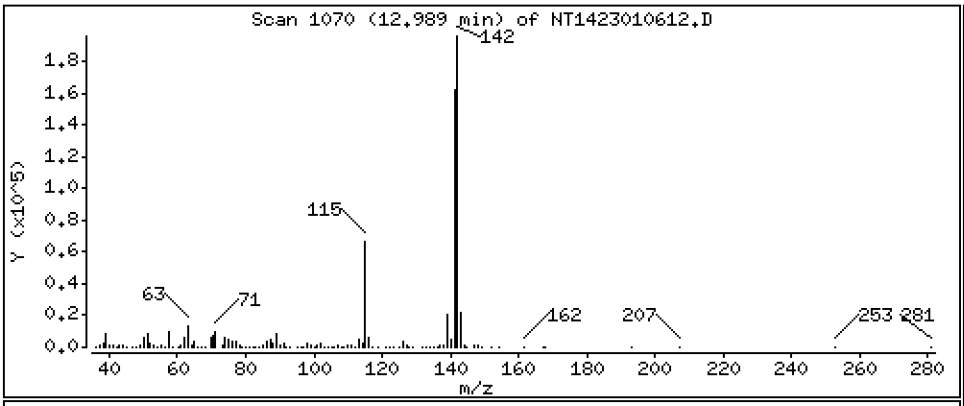
Operator: VTS

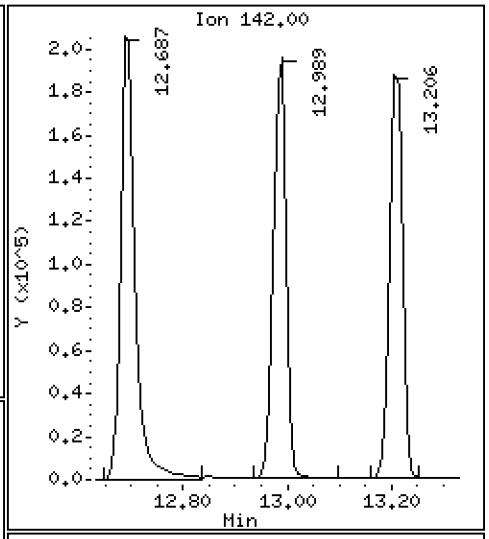
Column phase: ZB-5msi

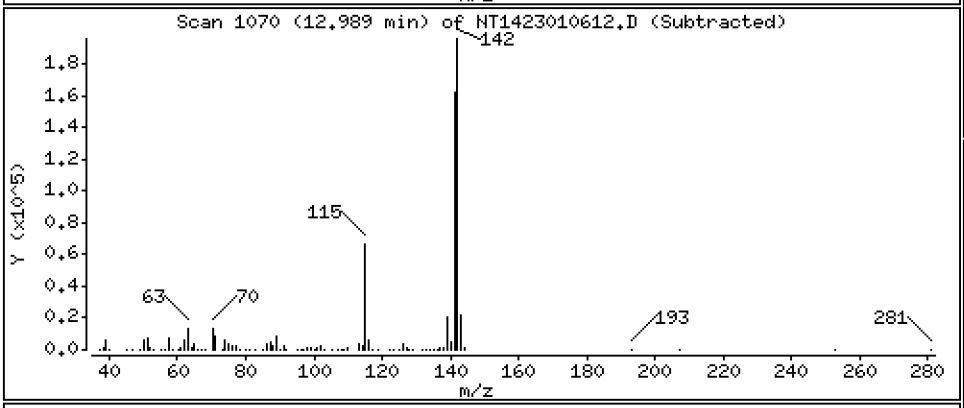
Column diameter: 0.25

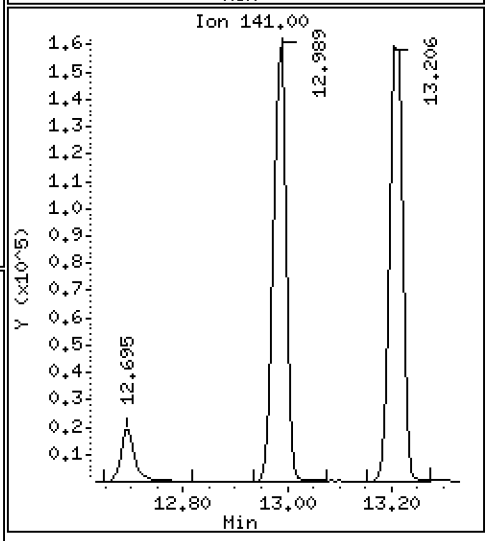
32 2-Methylnaphthalene

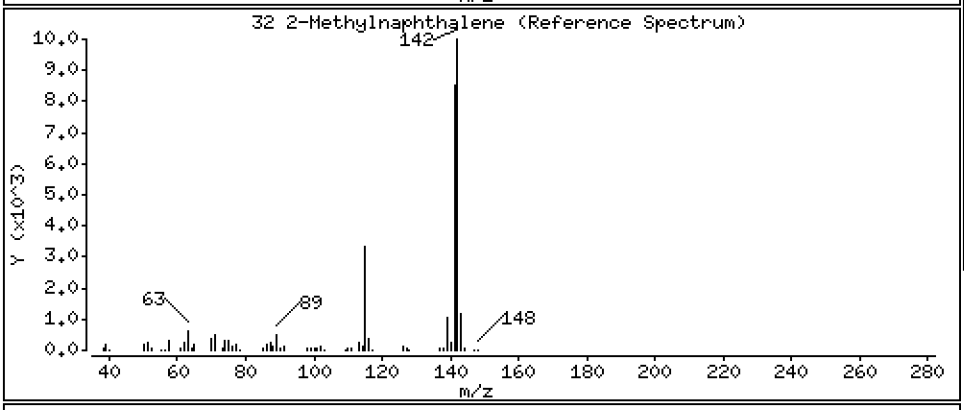
Concentration: 3.500 ug/mL

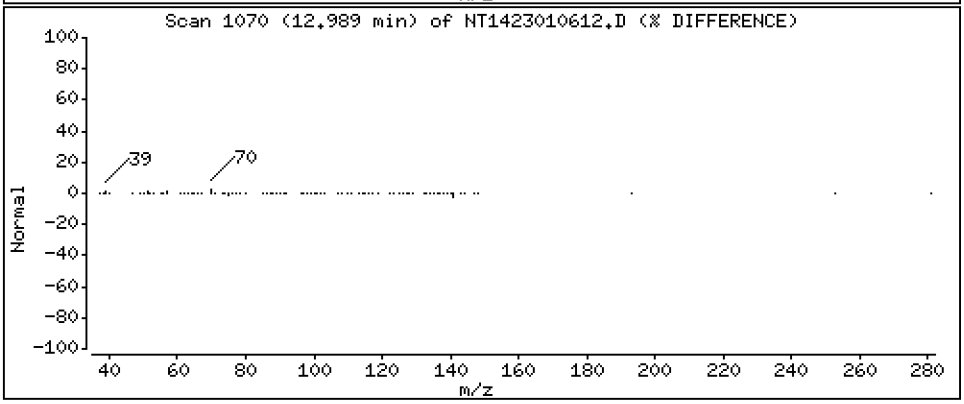












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

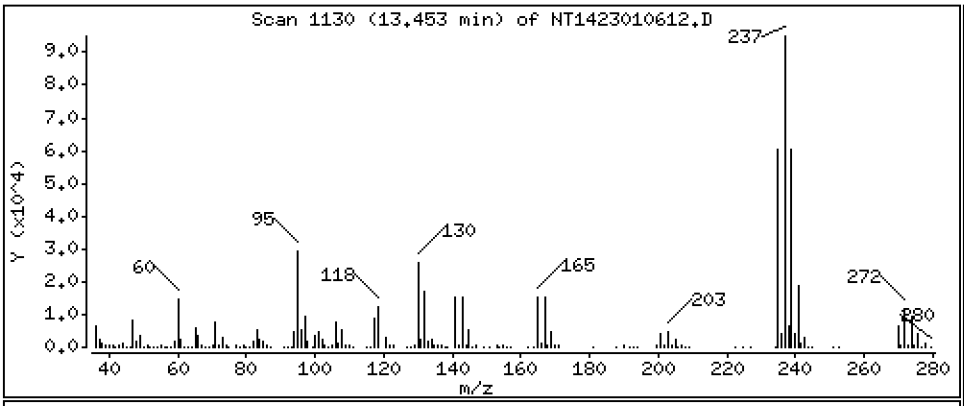
Operator: VTS

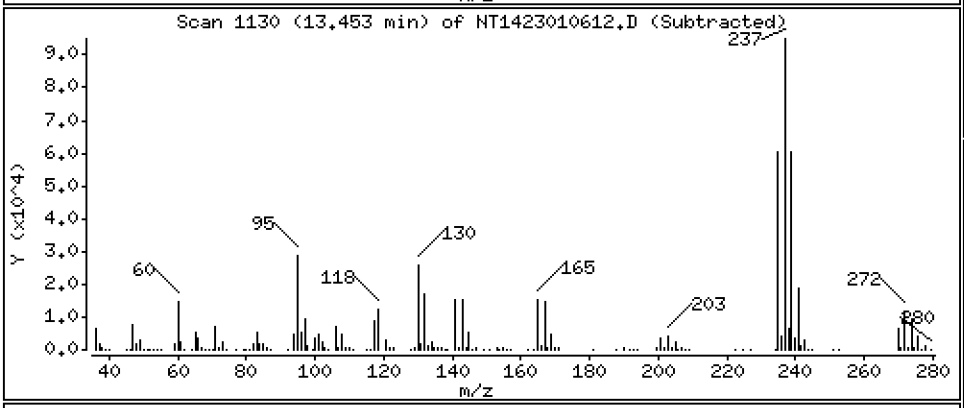
Column phase: ZB-5msi

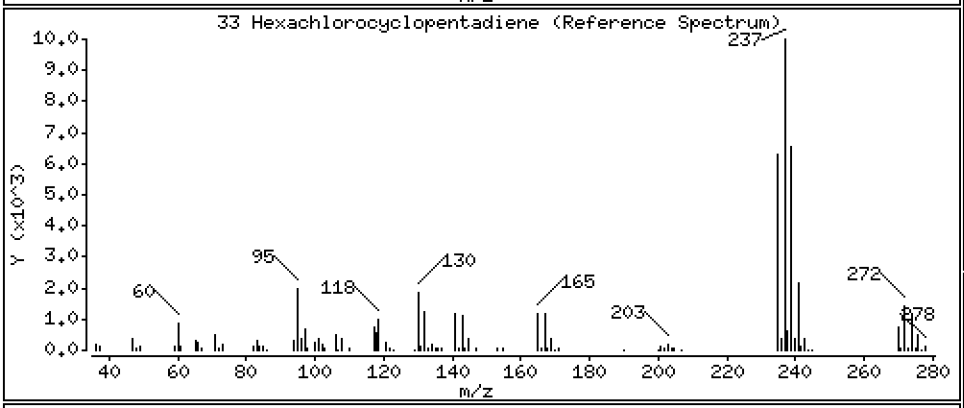
Column diameter: 0.25

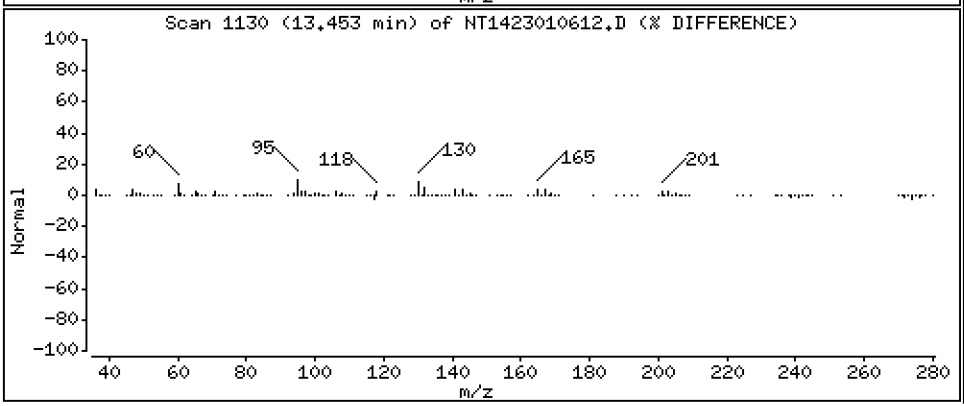
33 Hexachlorocyclopentadiene

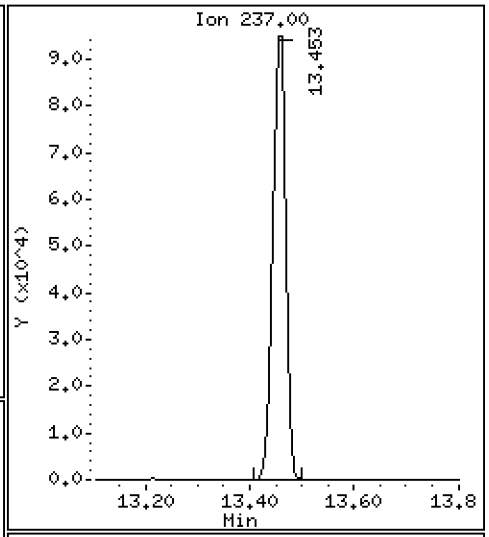
Concentration: 8.567 ug/mL

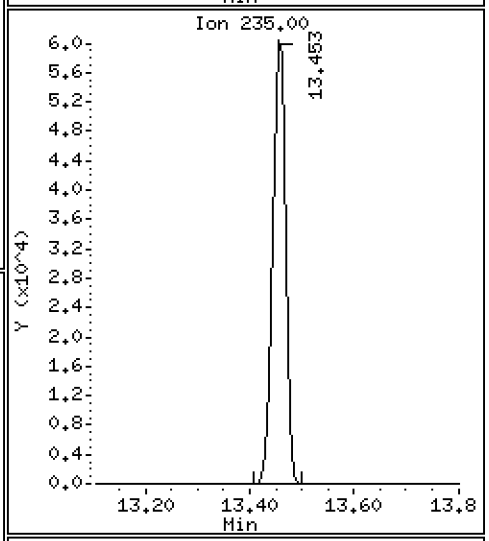


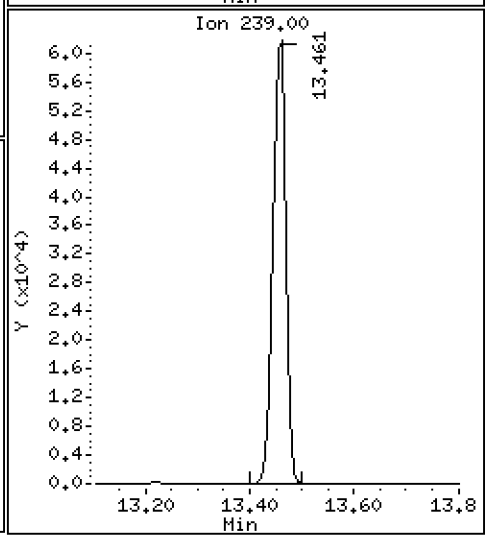












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

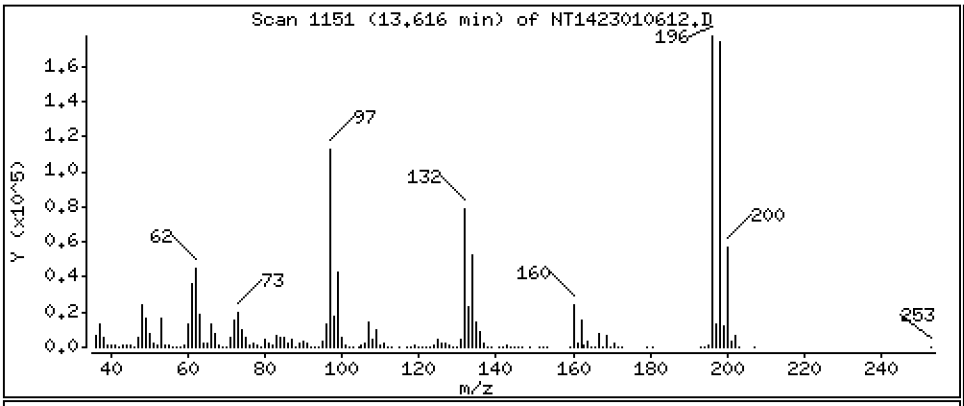
Operator: VTS

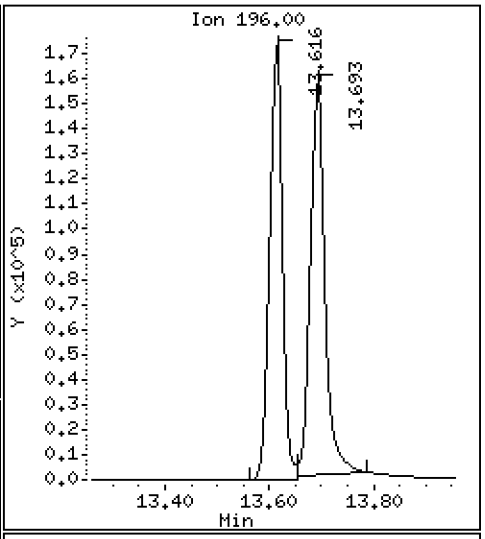
Column phase: ZB-5msi

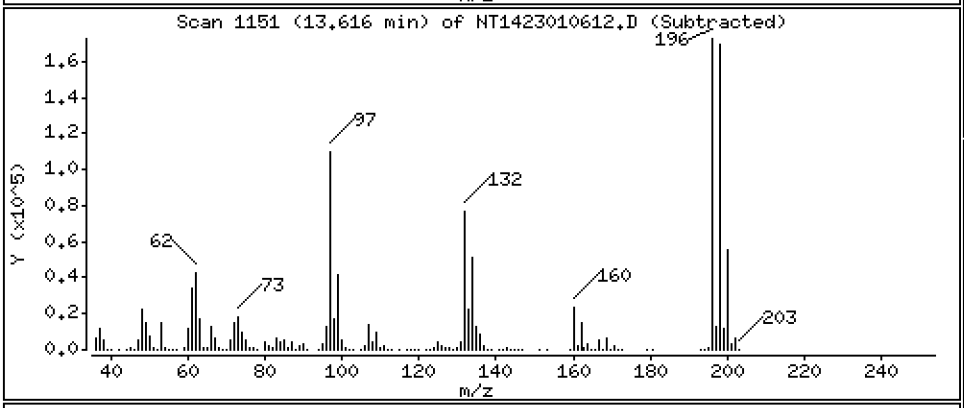
Column diameter: 0.25

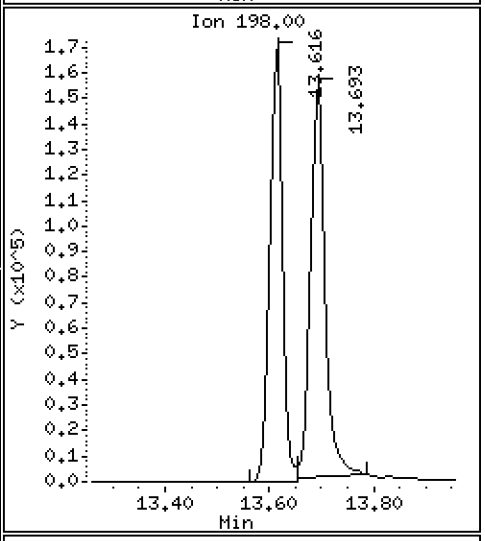
34 2,4,6-Trichlorophenol

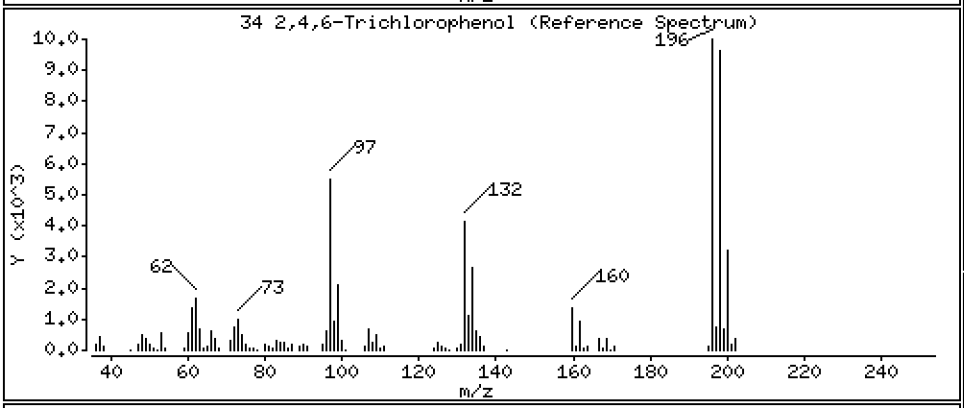
Concentration: 14.23 ug/mL

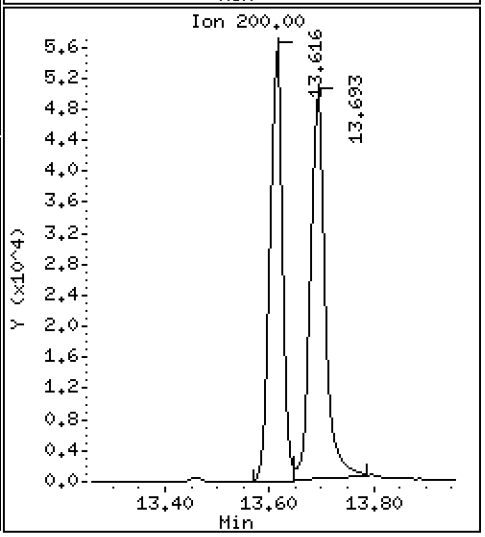


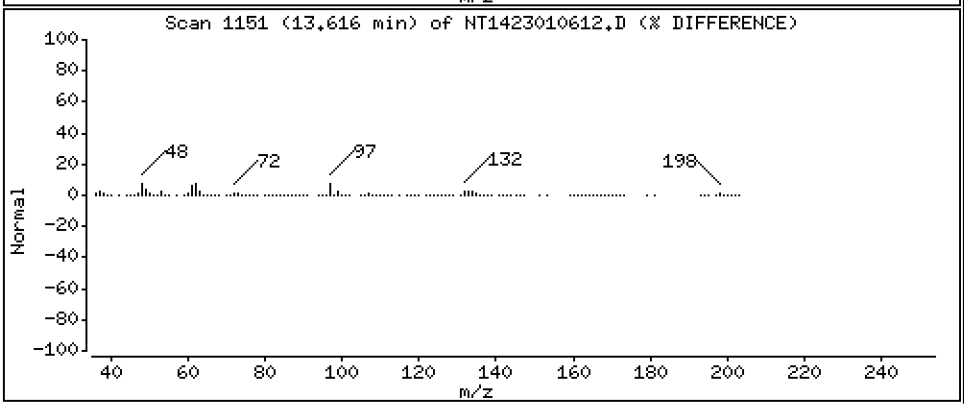












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

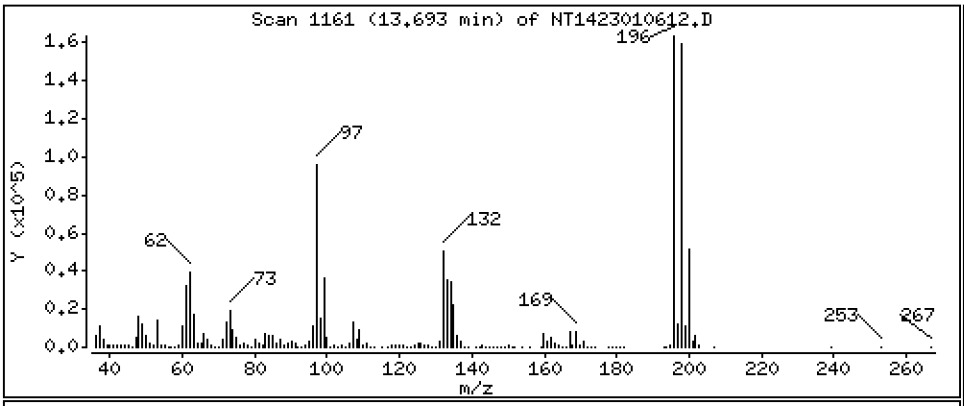
Operator: VTS

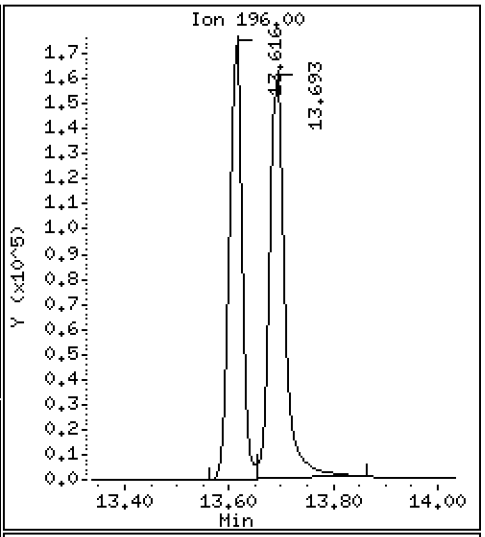
Column phase: ZB-5msi

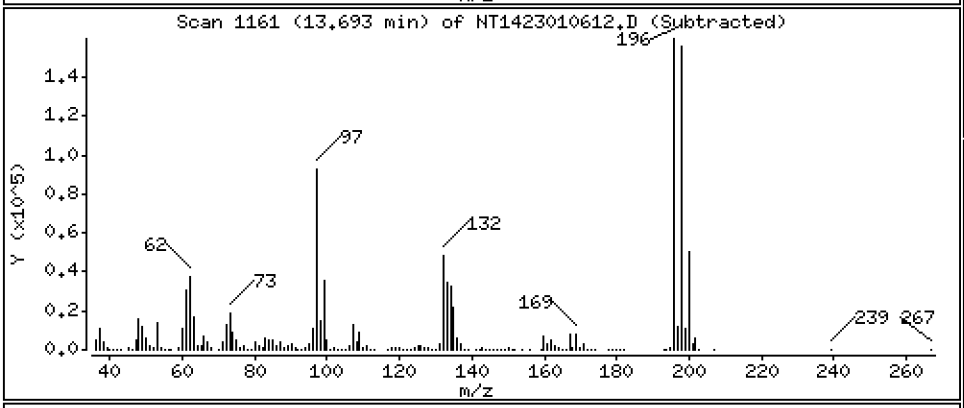
Column diameter: 0.25

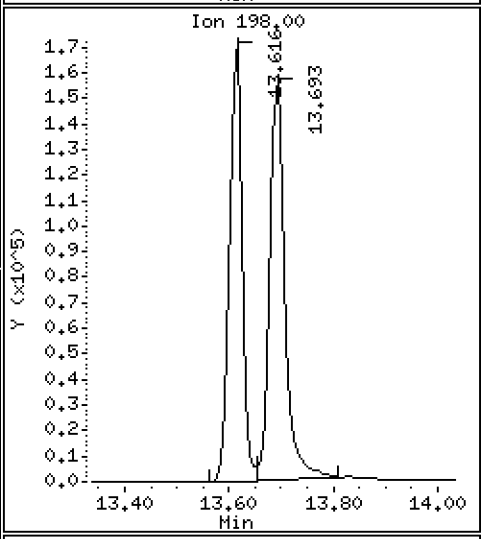
35 2,4,5-Trichlorophenol

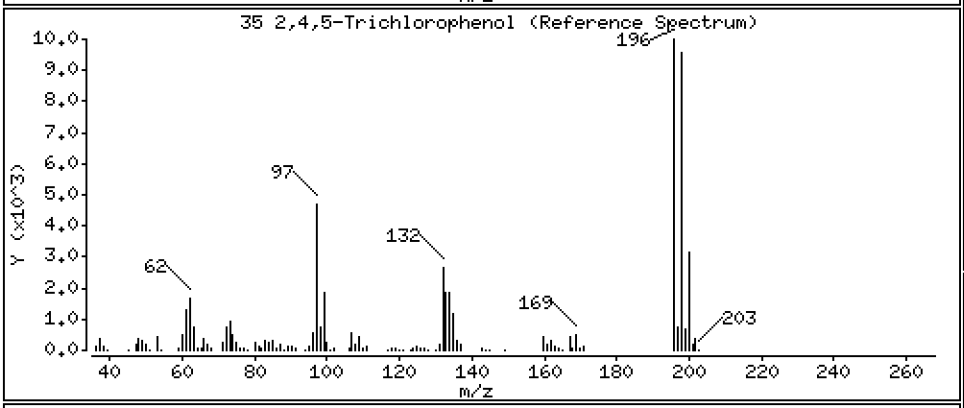
Concentration: 13.45 ug/mL

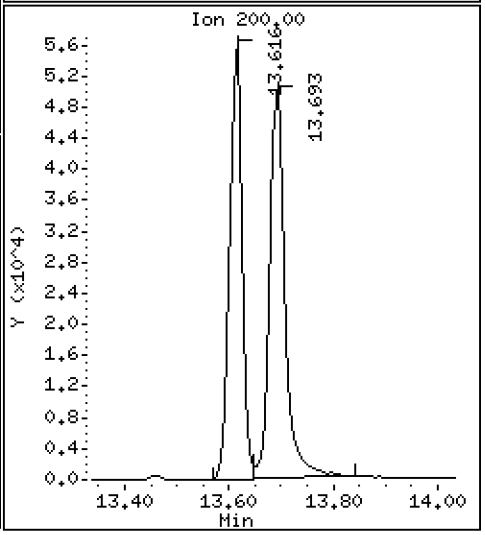


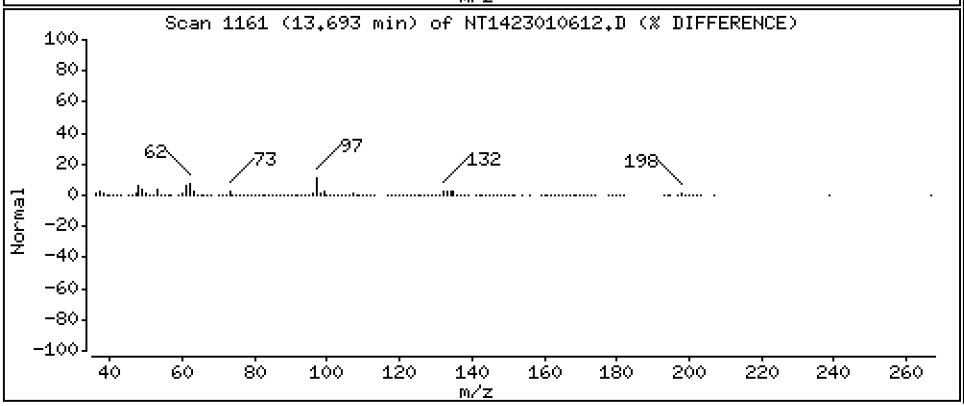












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

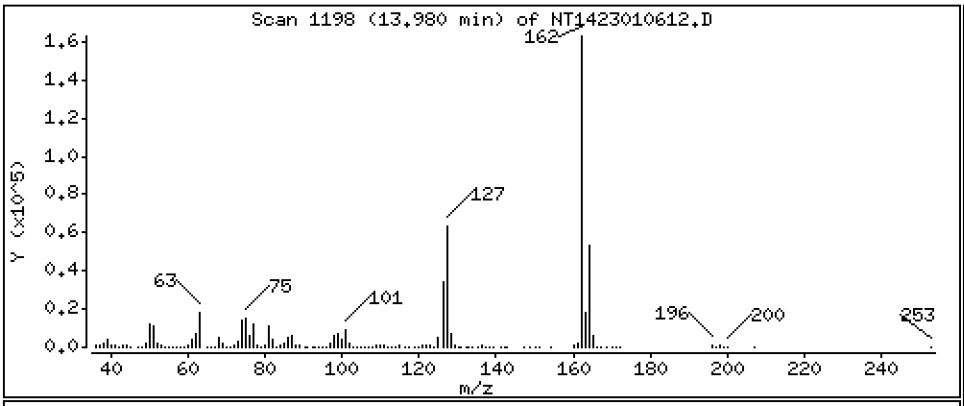
Operator: VTS

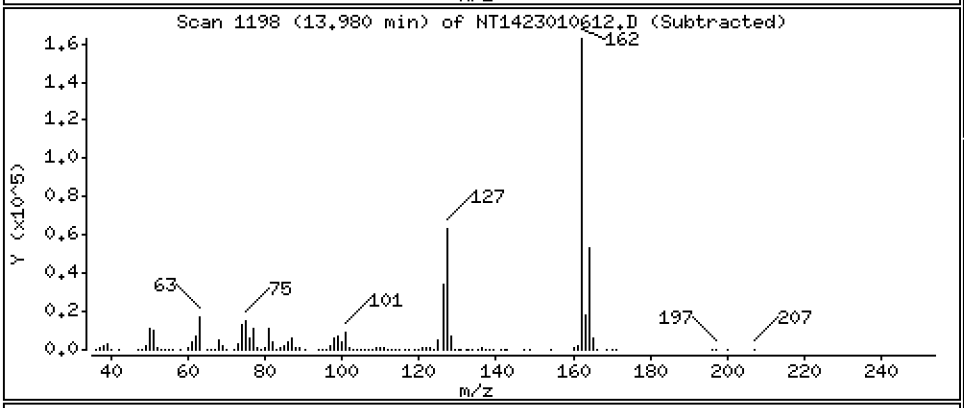
Column phase: ZB-5msi

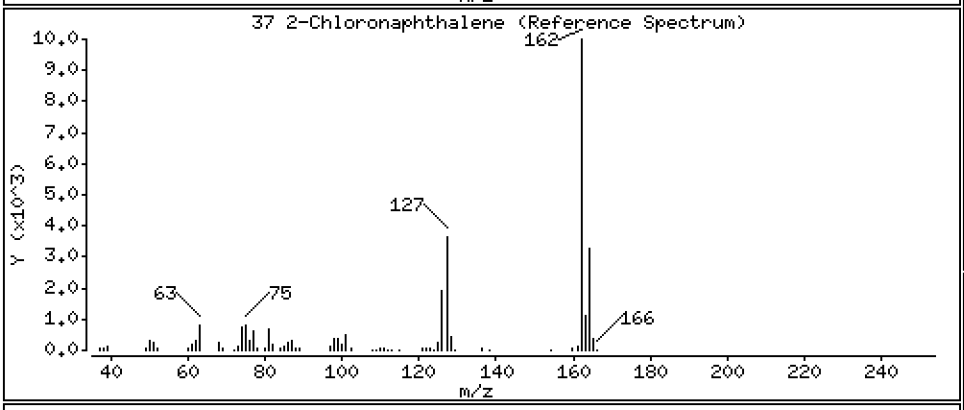
Column diameter: 0.25

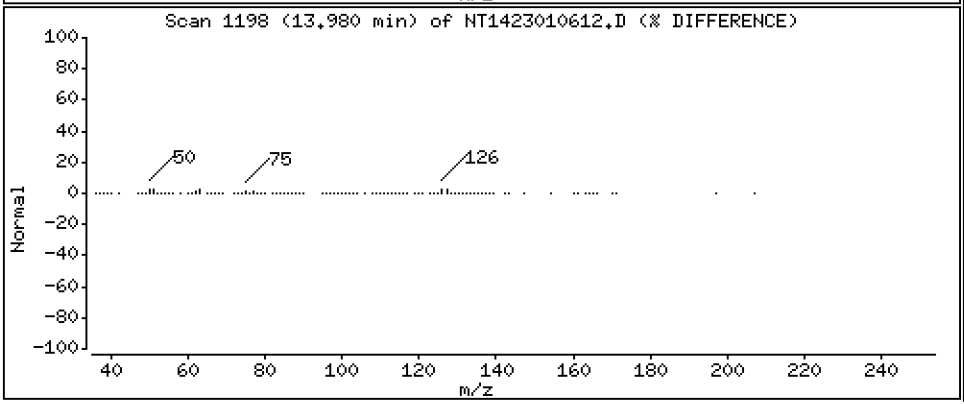
37 2-Chloronaphthalene

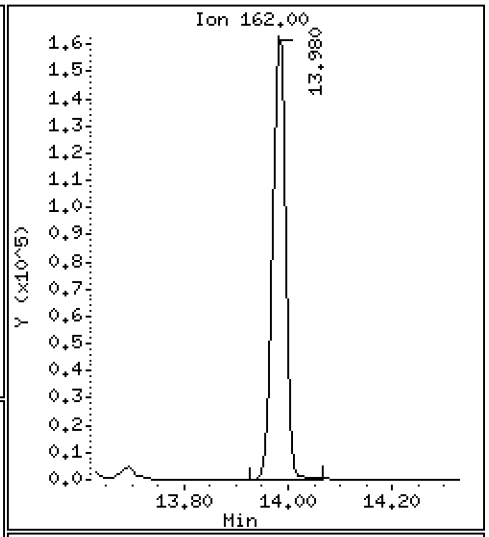
Concentration: 3.903 ug/mL

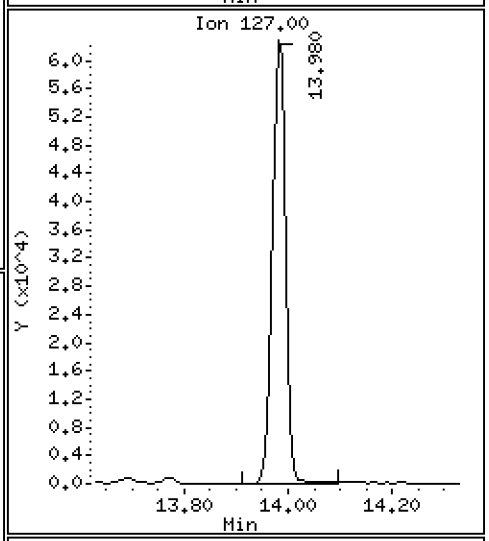


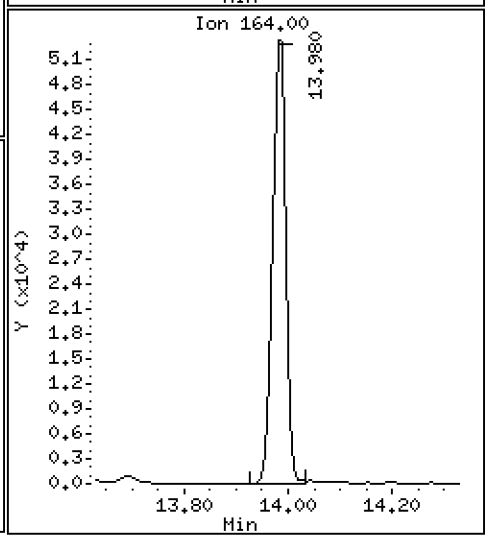












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

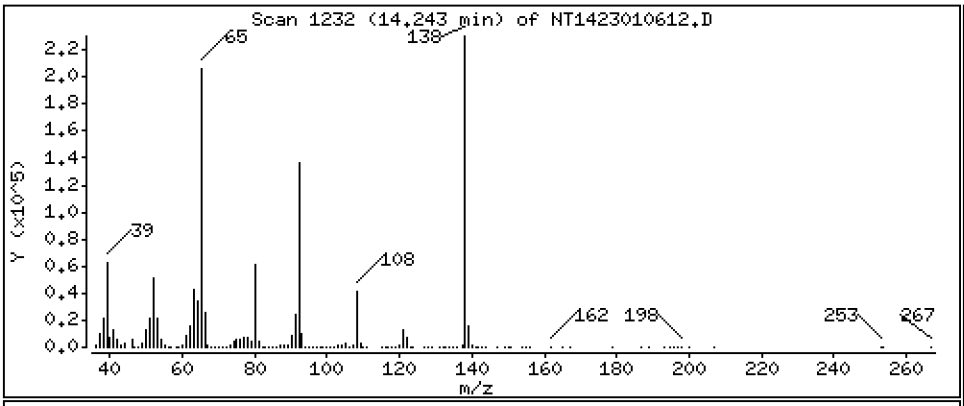
Operator: VTS

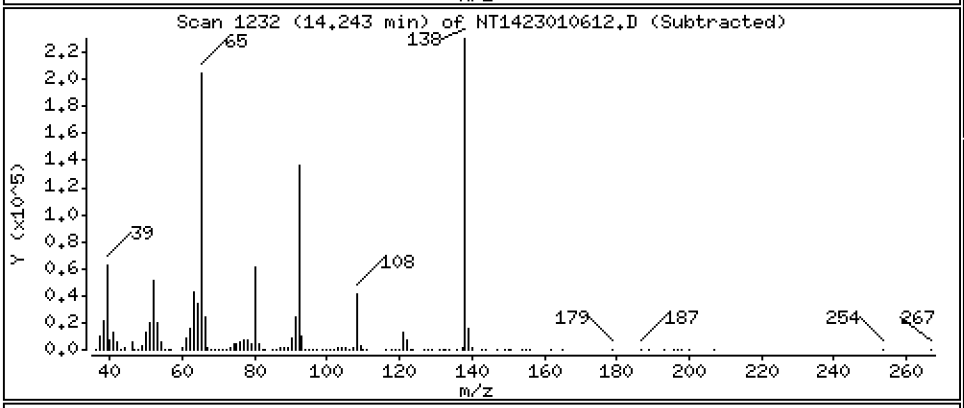
Column phase: ZB-5msi

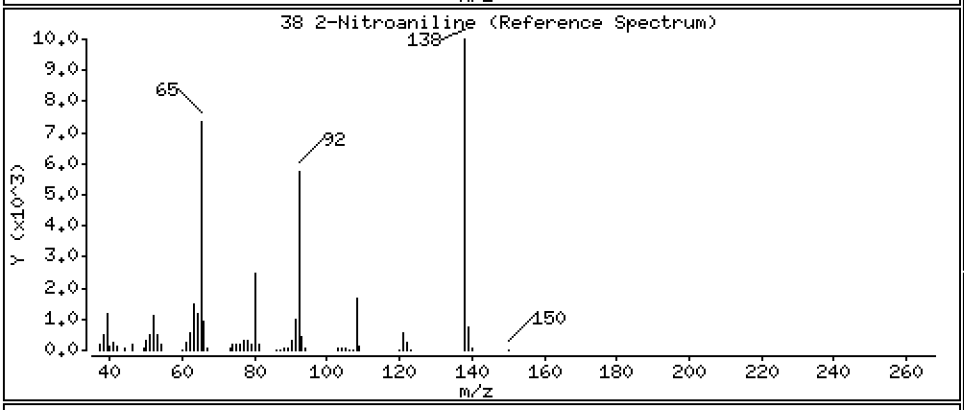
Column diameter: 0.25

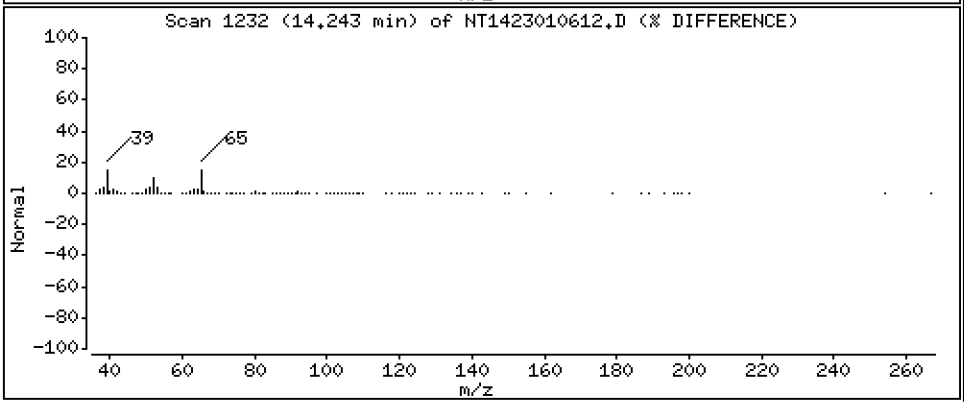
38 2-Nitroaniline

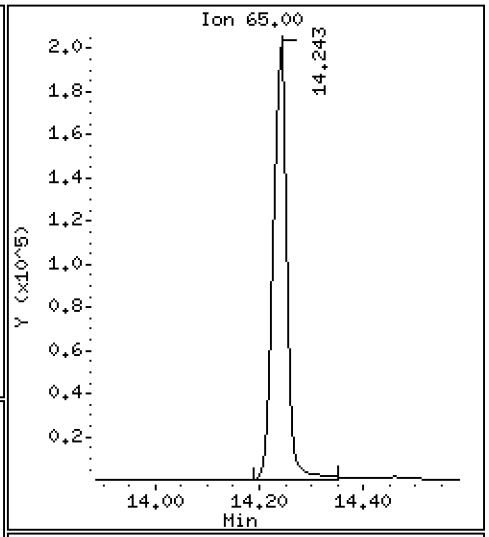
Concentration: 19.46 ug/mL

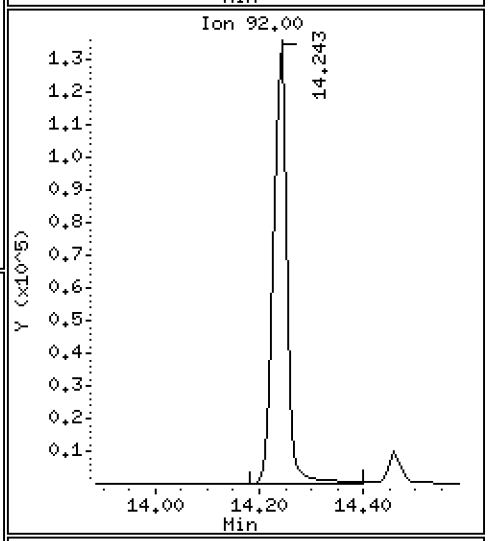


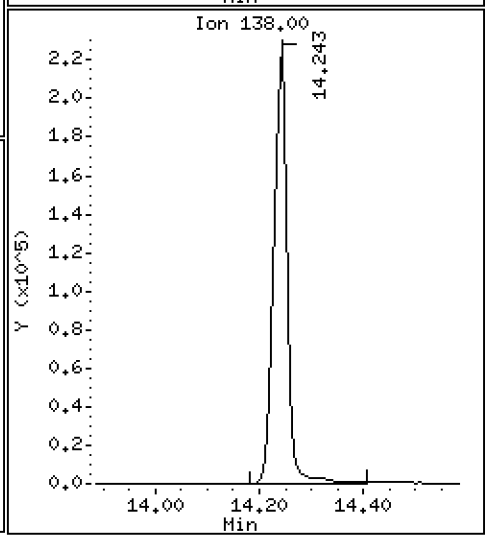












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

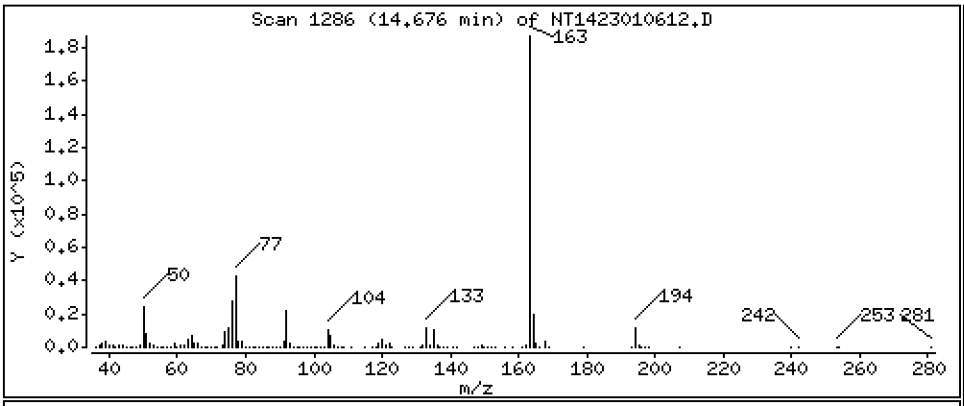
Operator: VTS

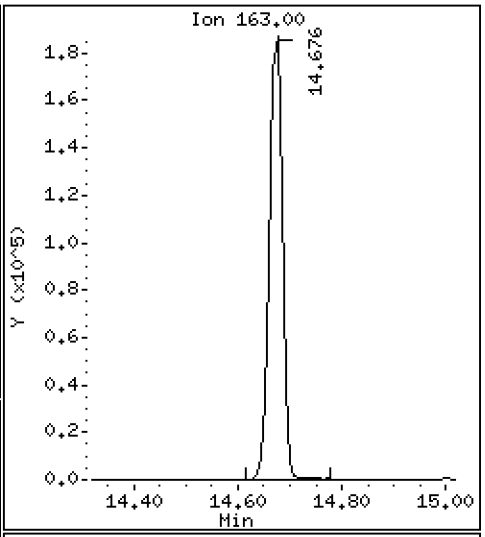
Column phase: ZB-5msi

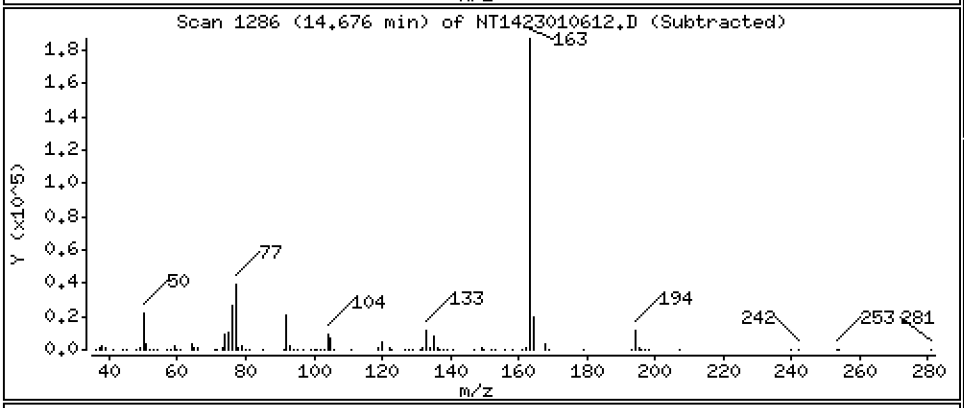
Column diameter: 0.25

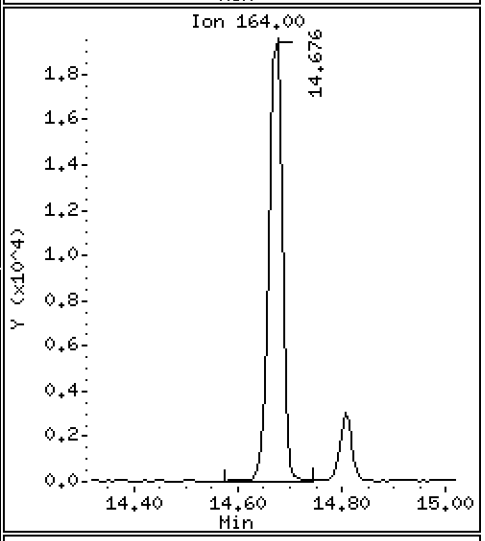
39 Dimethylphthalate

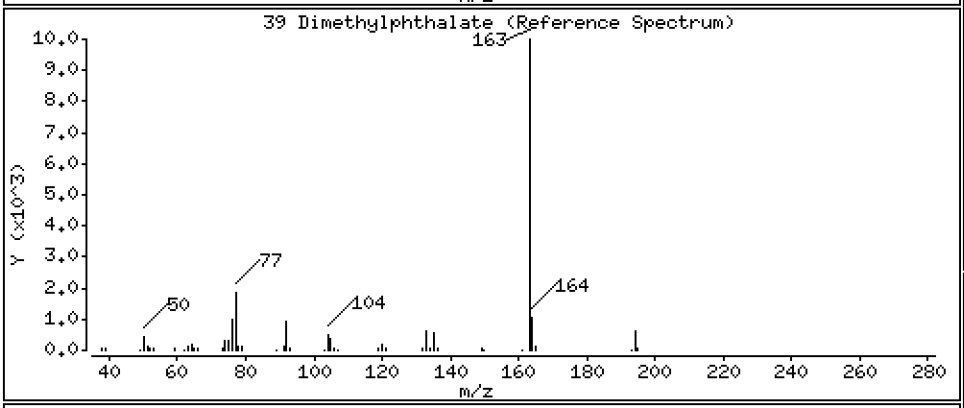
Concentration: 4.551 ug/mL

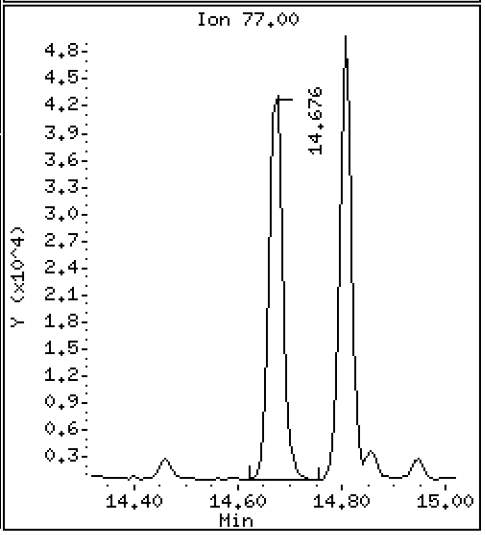


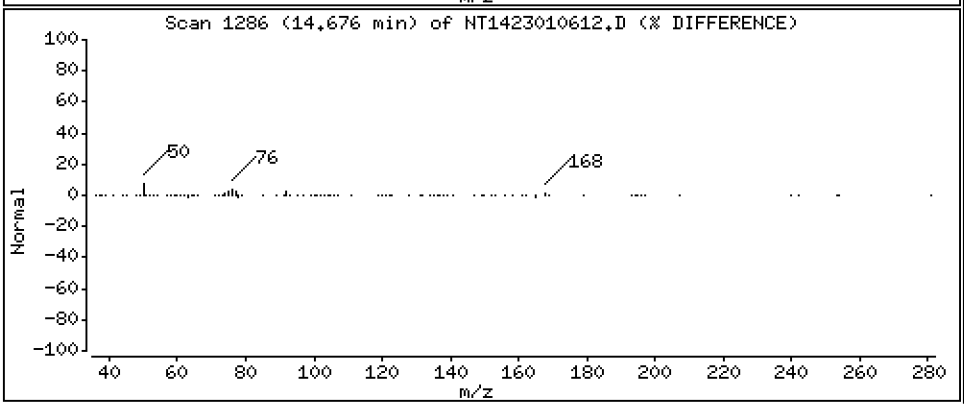












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

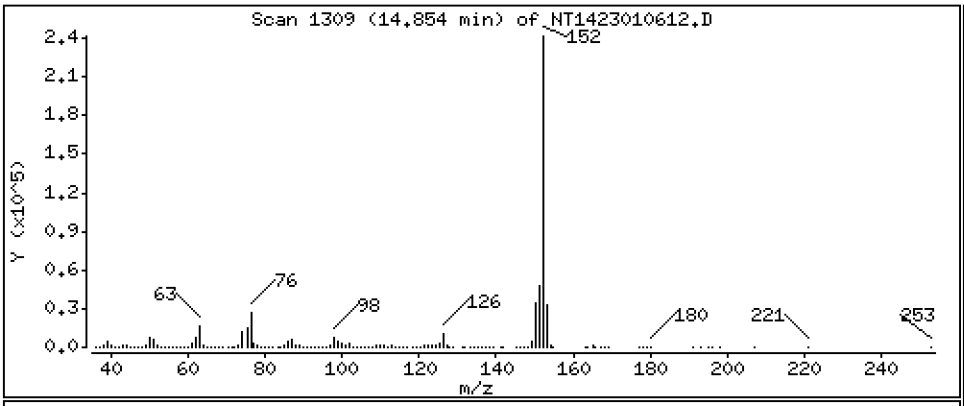
Operator: VTS

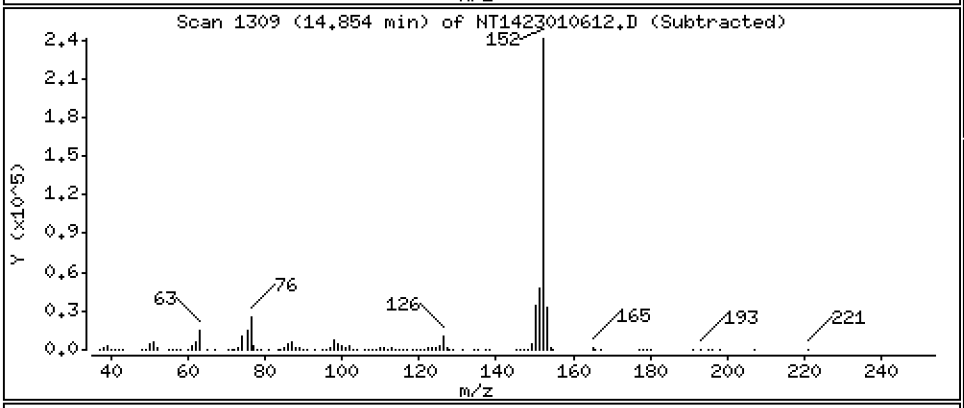
Column phase: ZB-5msi

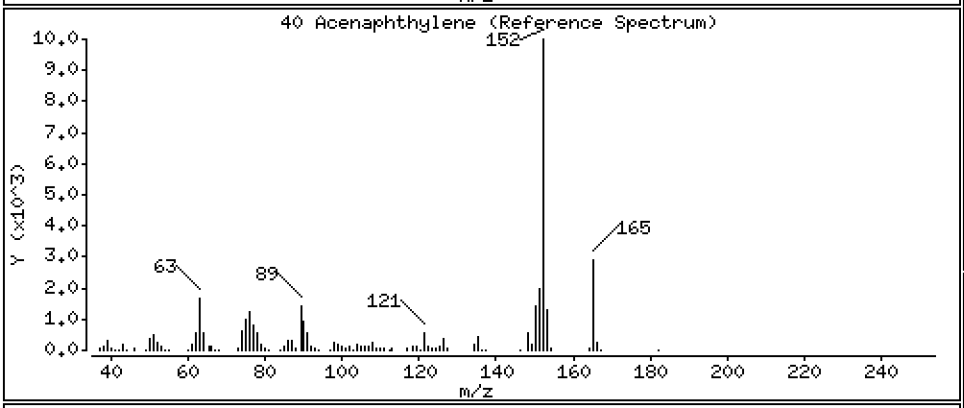
Column diameter: 0.25

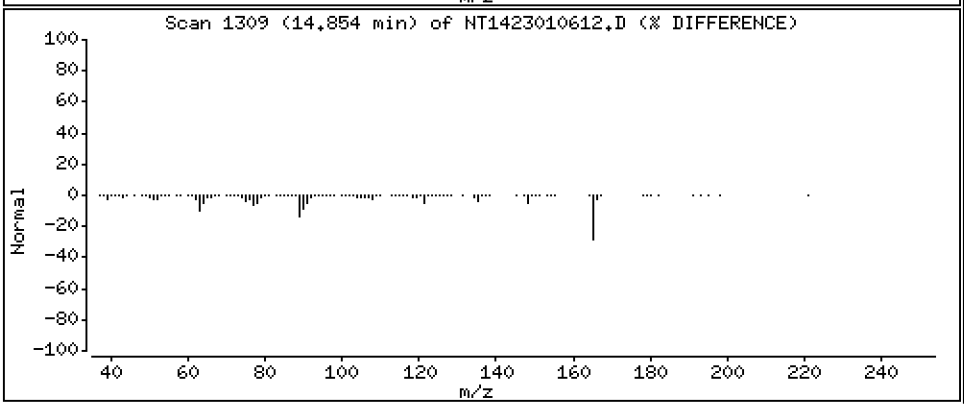
40 Acenaphthylene

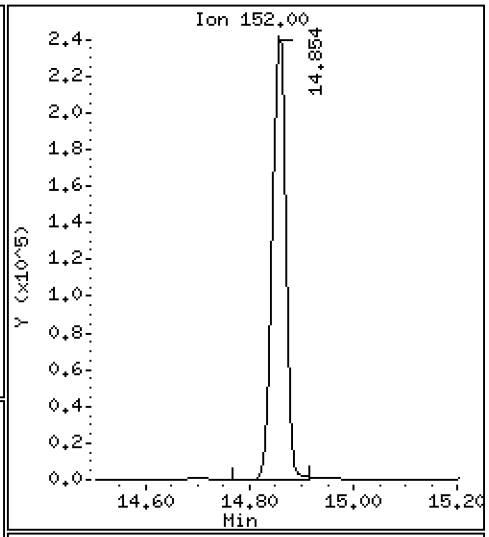
Concentration: 3.959 ug/mL

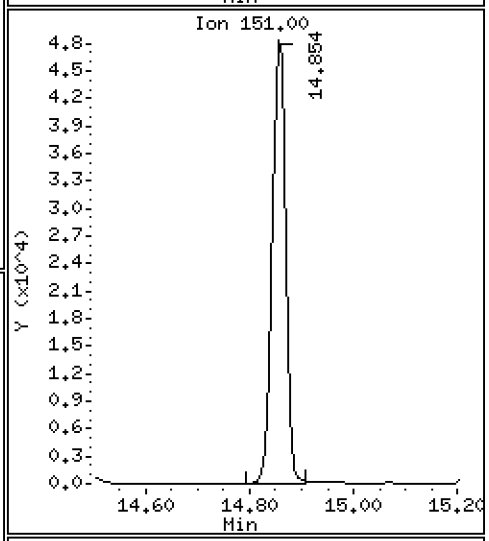


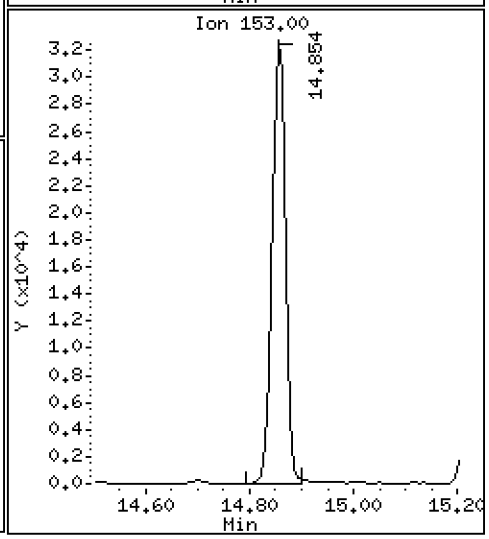












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

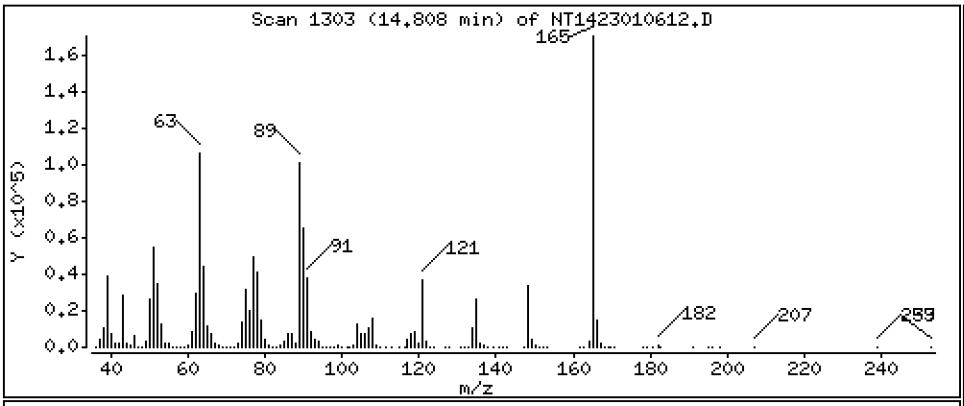
Operator: VTS

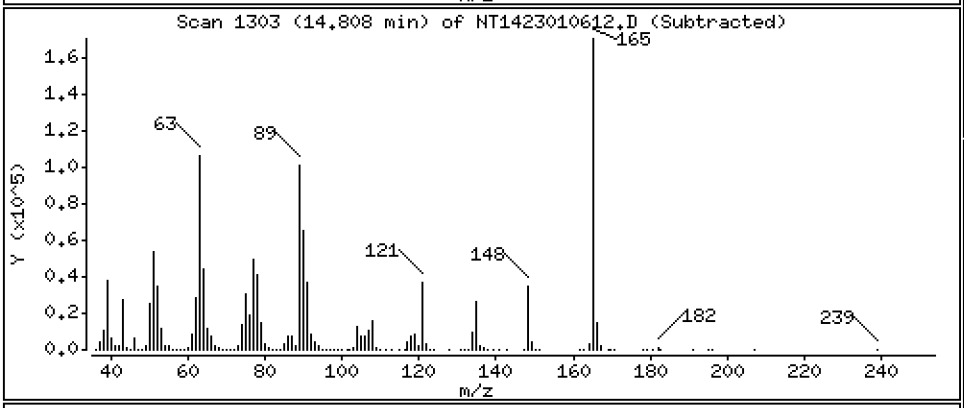
Column phase: ZB-5msi

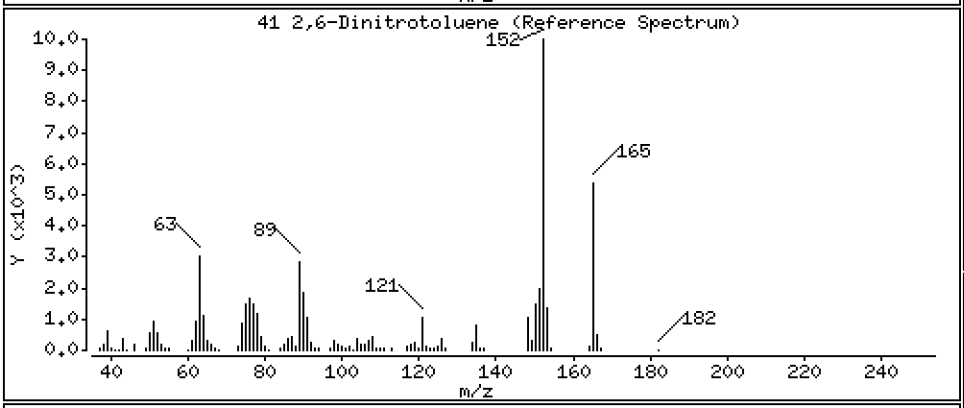
Column diameter: 0.25

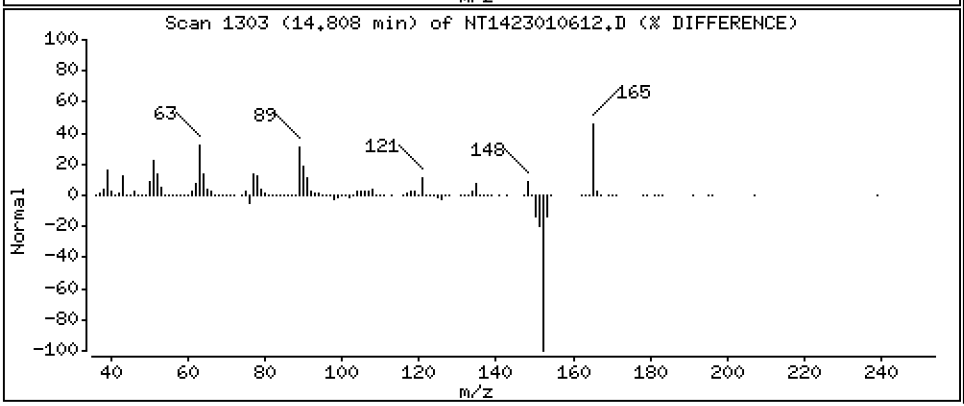
41 2,6-Dinitrotoluene

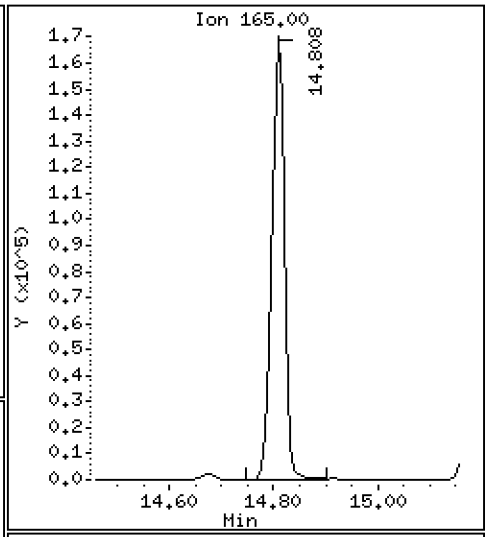
Concentration: 17.56 ug/mL

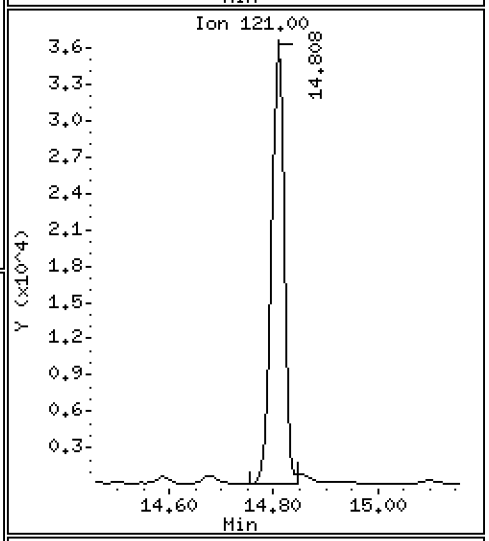


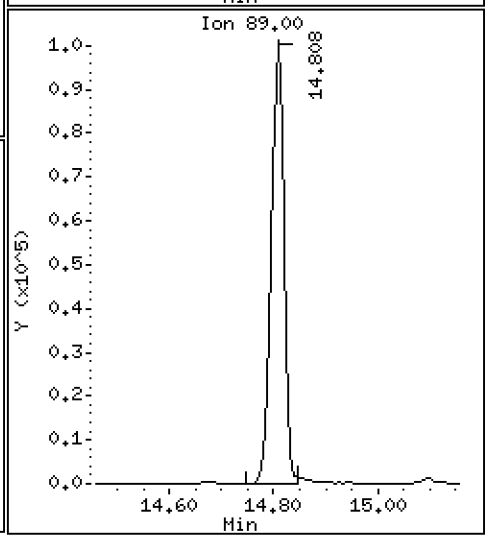












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

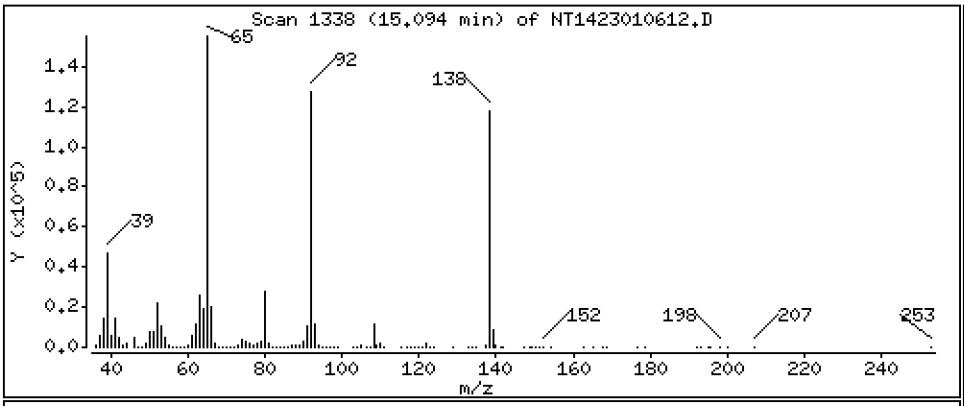
Operator: VTS

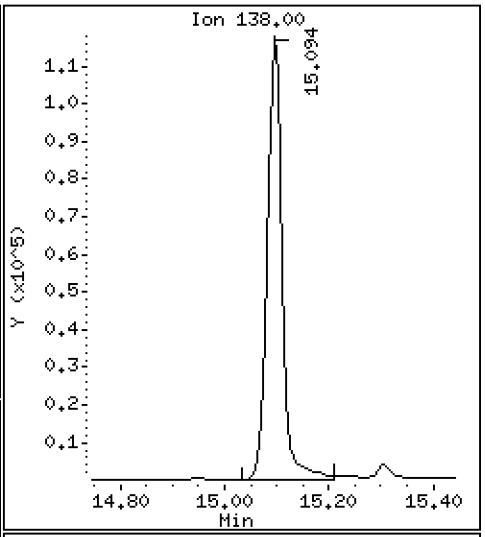
Column phase: ZB-5msi

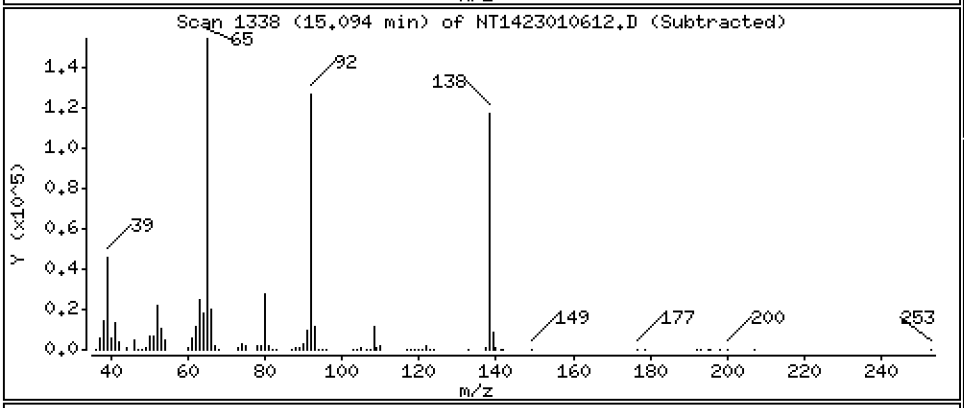
Column diameter: 0.25

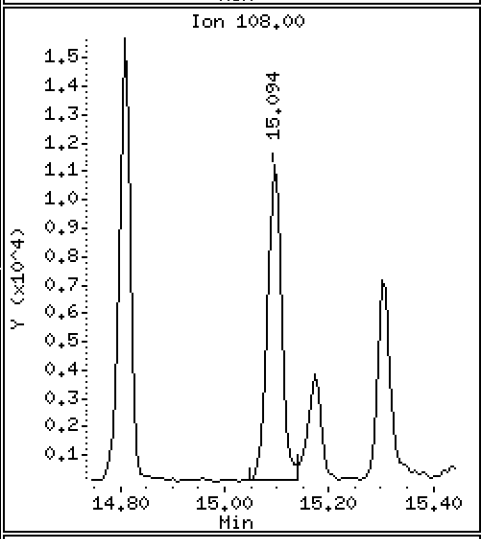
43 3-Nitroaniline

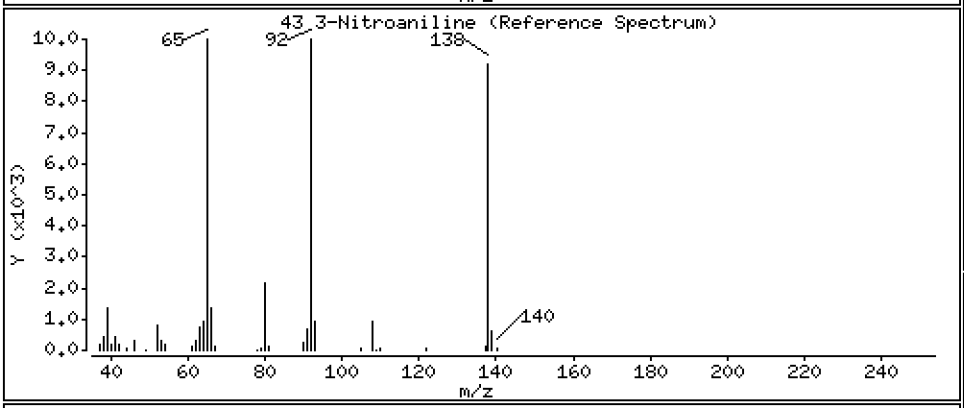
Concentration: 11.79 ug/mL

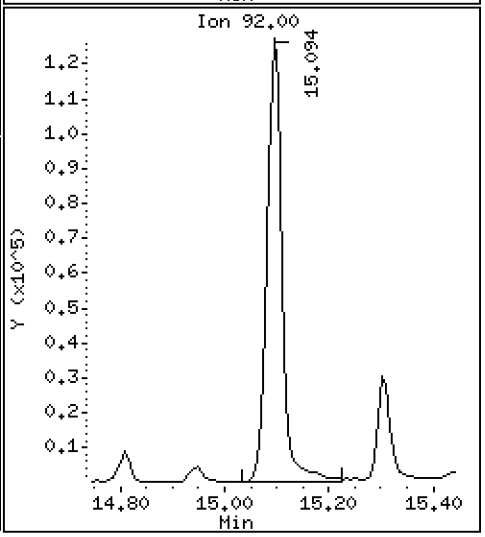


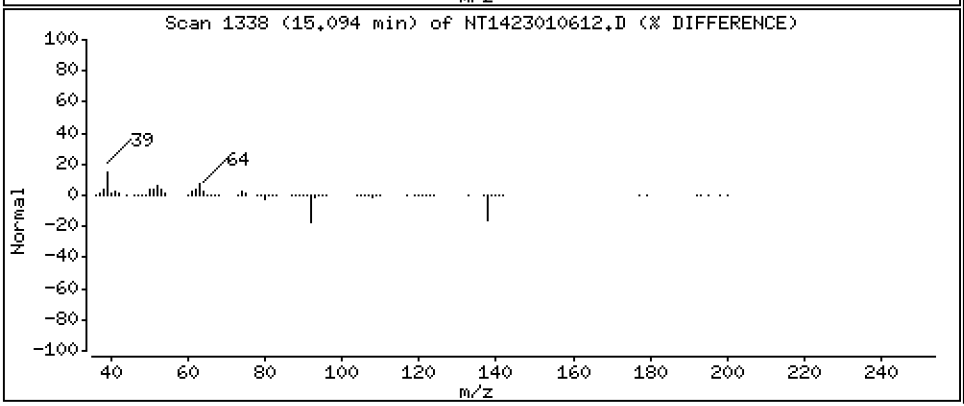












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

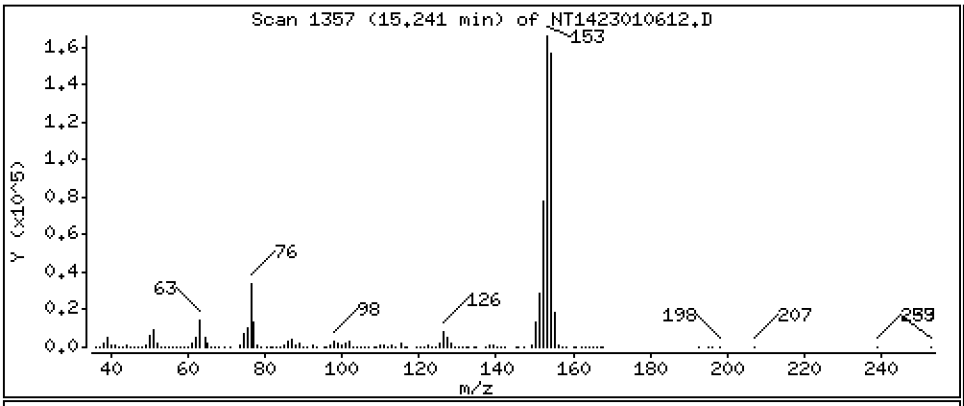
Operator: VTS

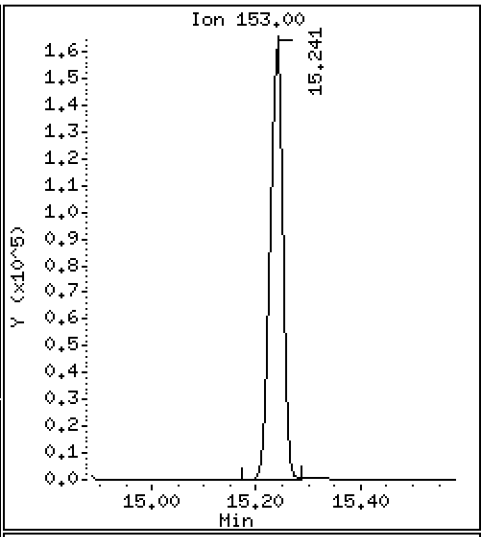
Column phase: ZB-5msi

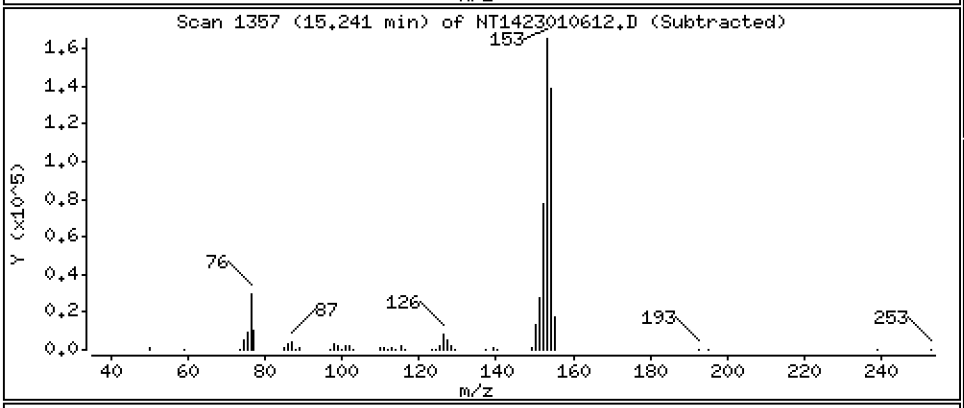
Column diameter: 0.25

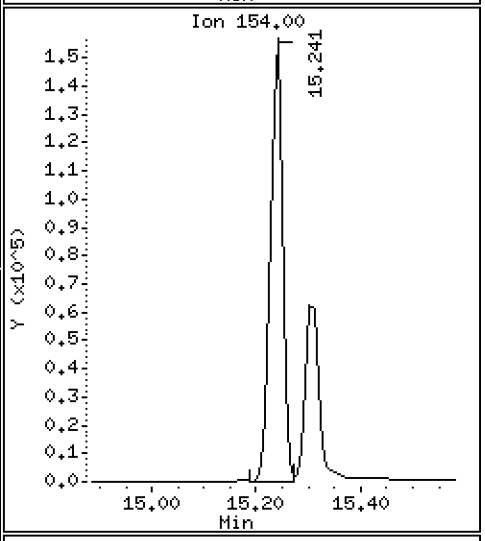
44 Acenaphthene

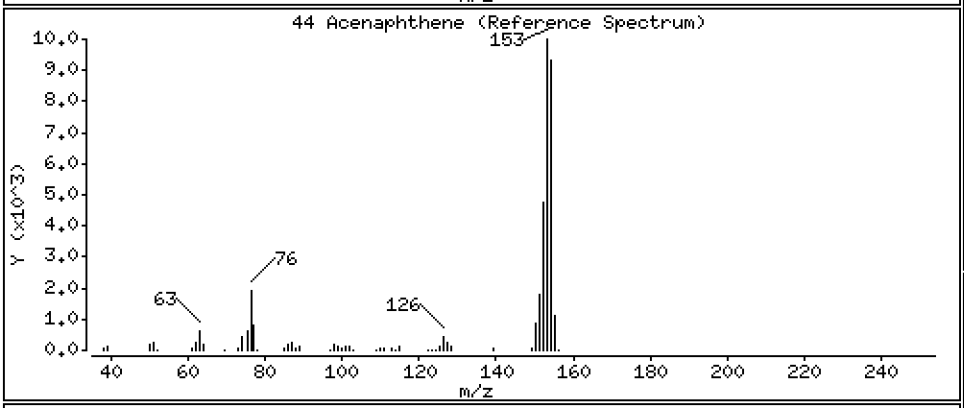
Concentration: 4.090 ug/mL

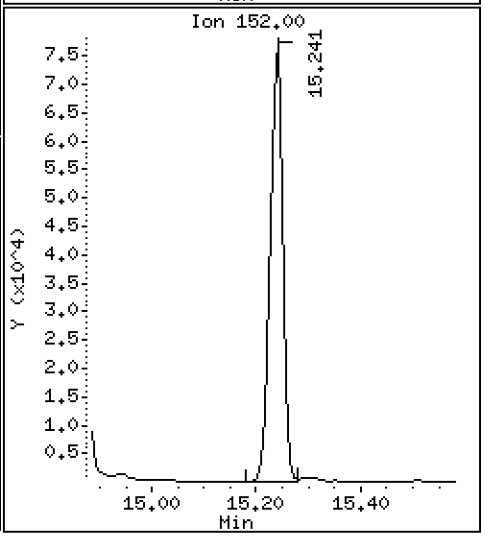


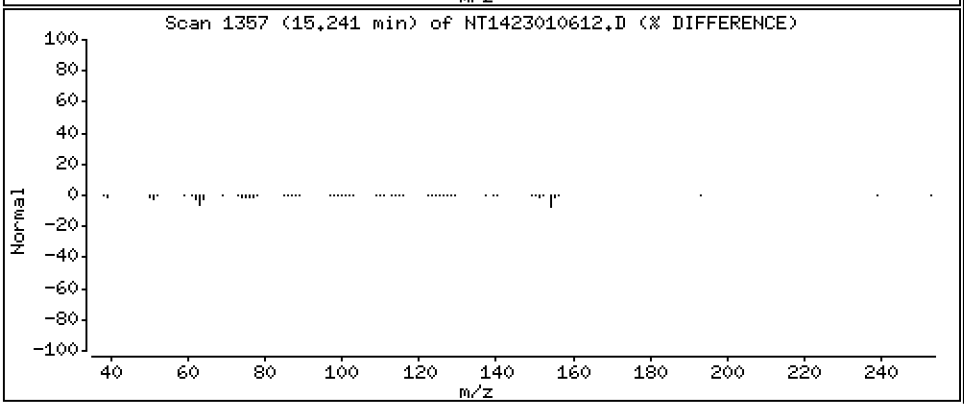












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

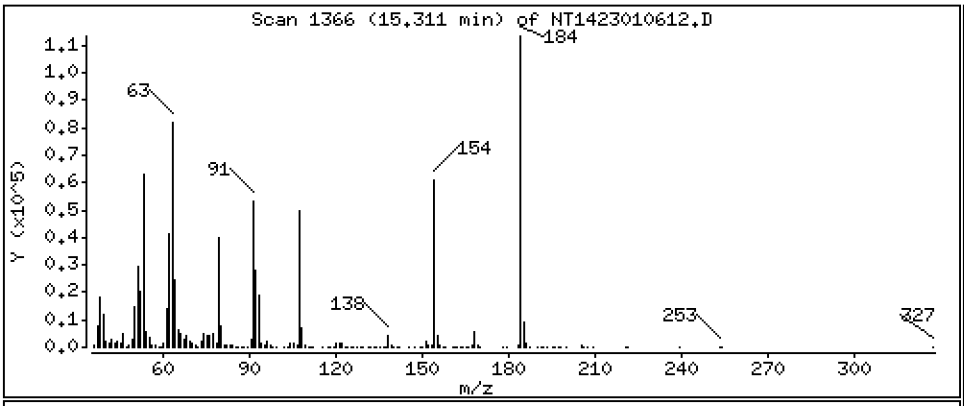
Operator: VTS

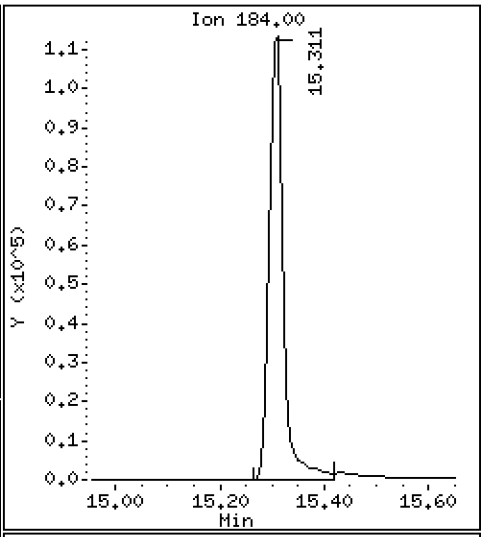
Column phase: ZB-5msi

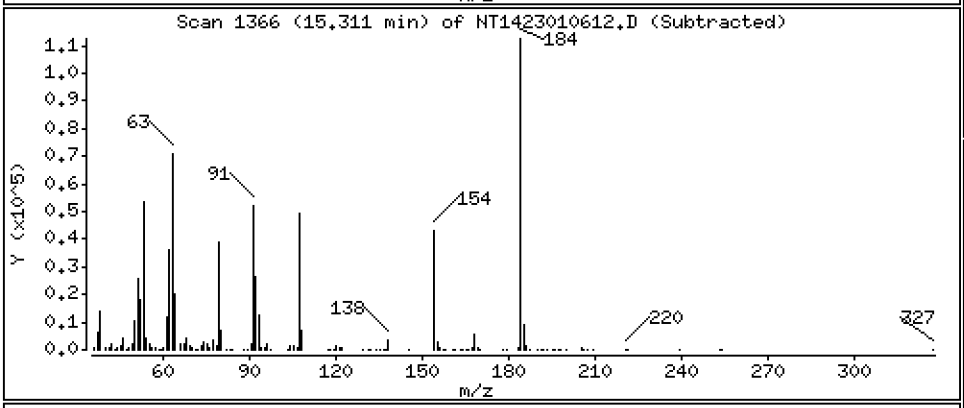
Column diameter: 0.25

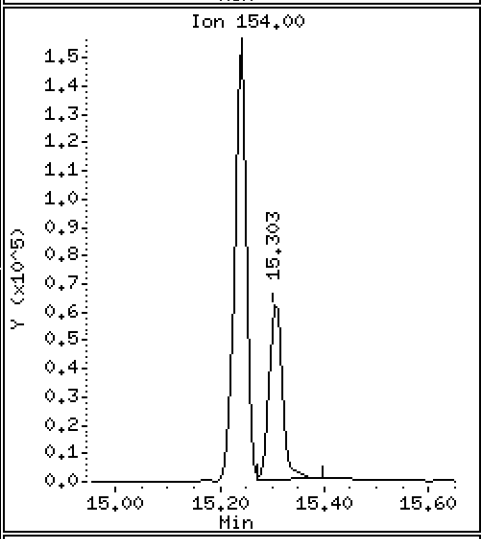
45 2,4-Dinitrophenol

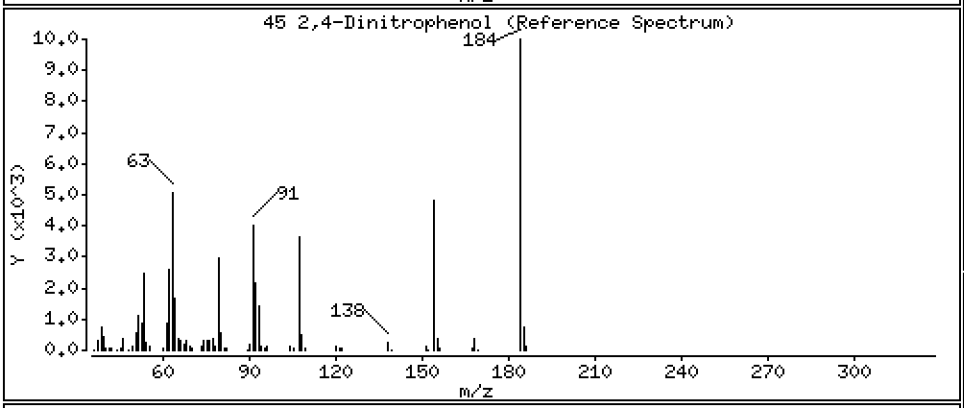
Concentration: 15.19 ug/mL

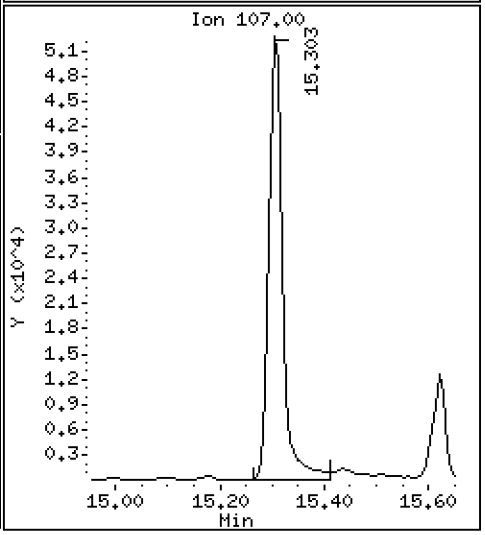


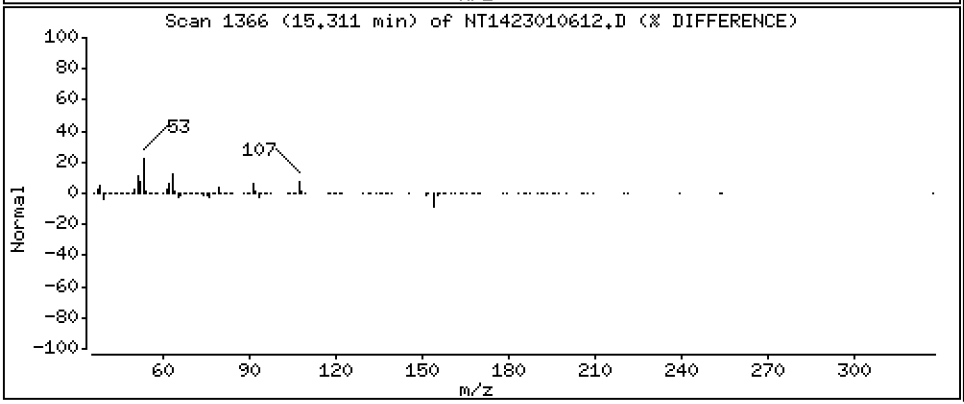












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

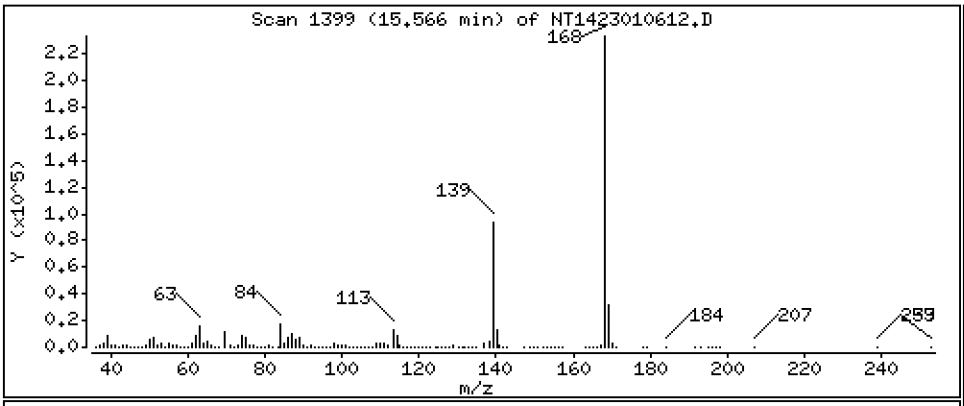
Operator: VTS

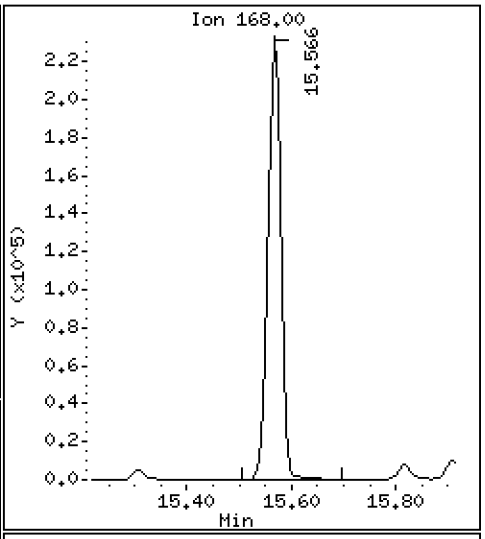
Column phase: ZB-5msi

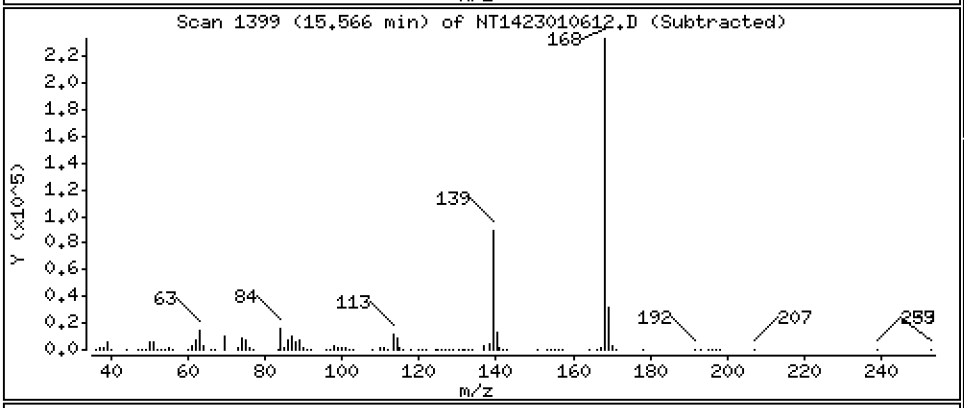
Column diameter: 0.25

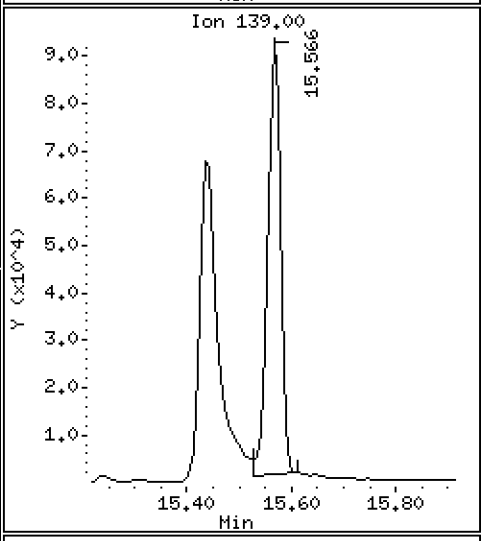
46 Dibenzofuran

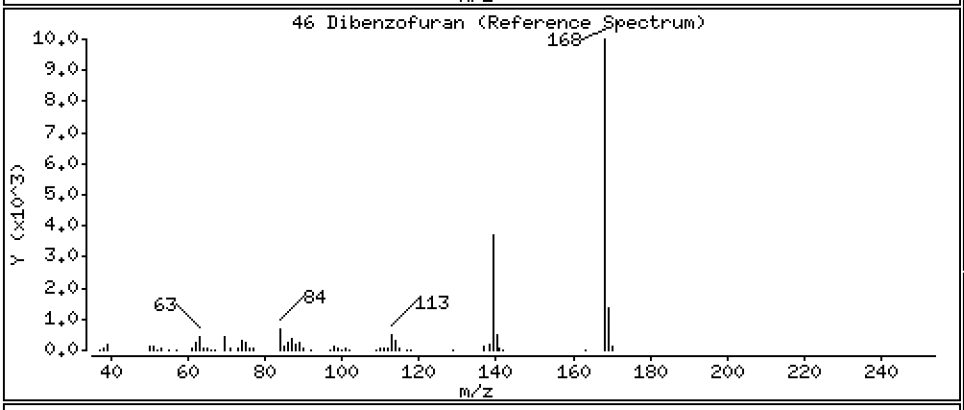
Concentration: 3.885 ug/mL

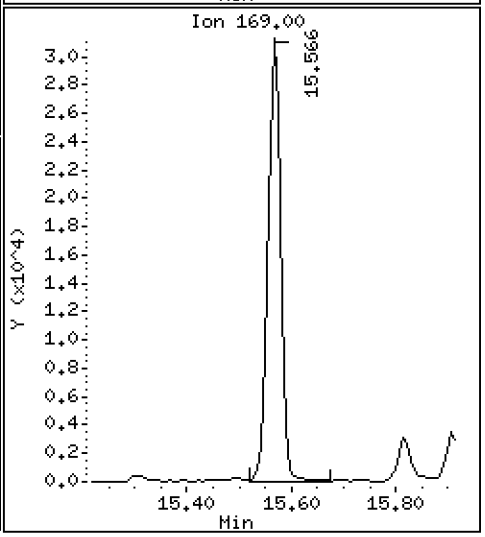


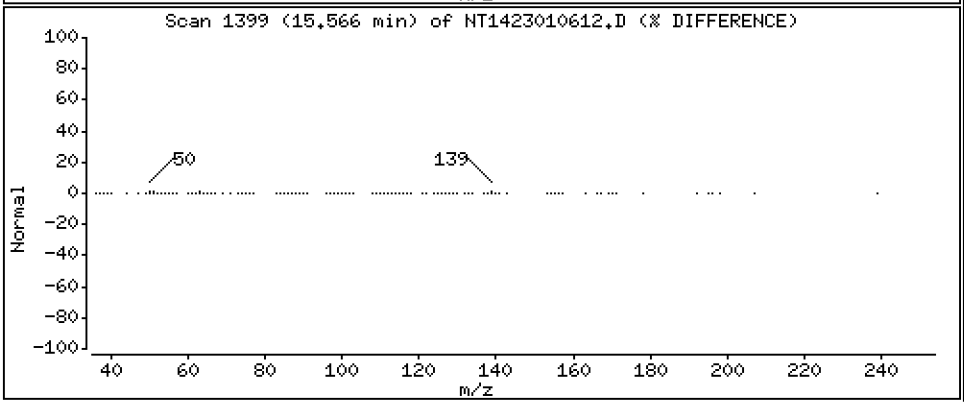












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

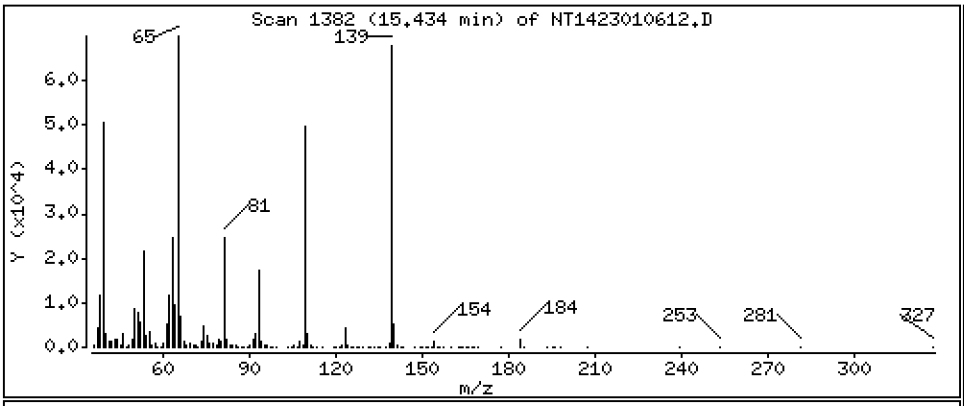
Operator: VTS

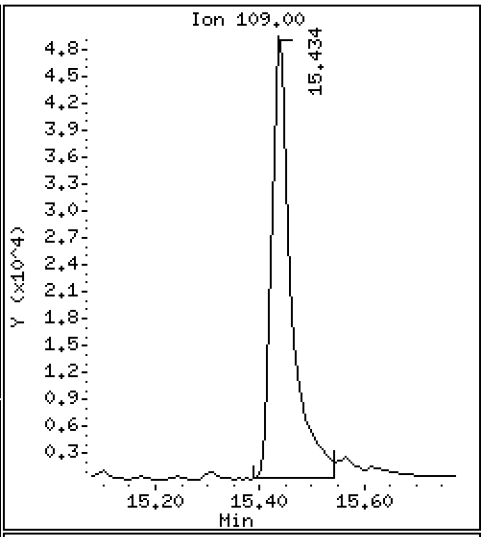
Column phase: ZB-5msi

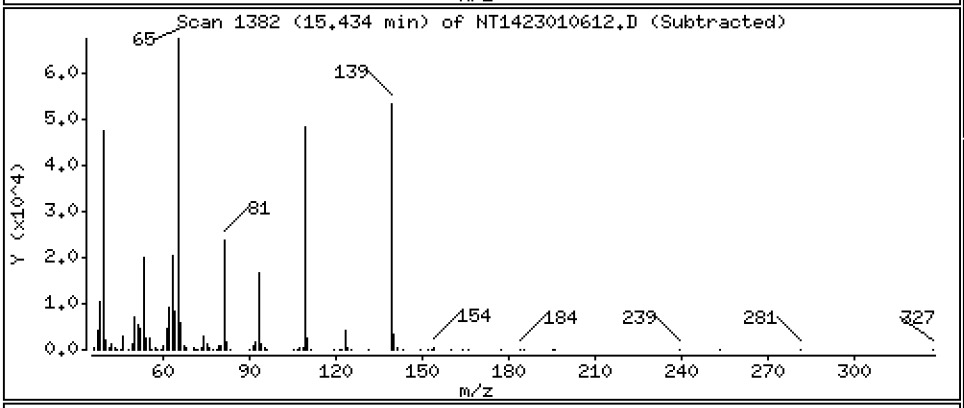
Column diameter: 0.25

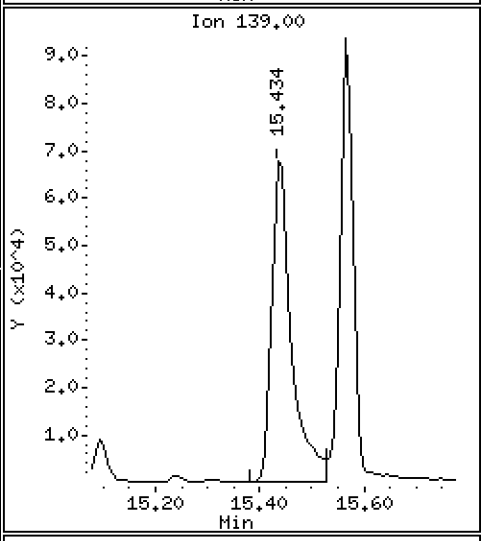
47 4-Nitrophenol

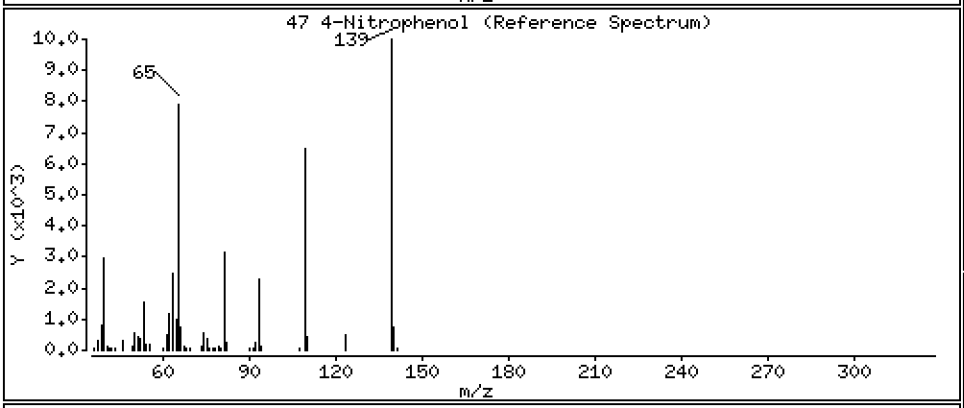
Concentration: 13.98 ug/mL

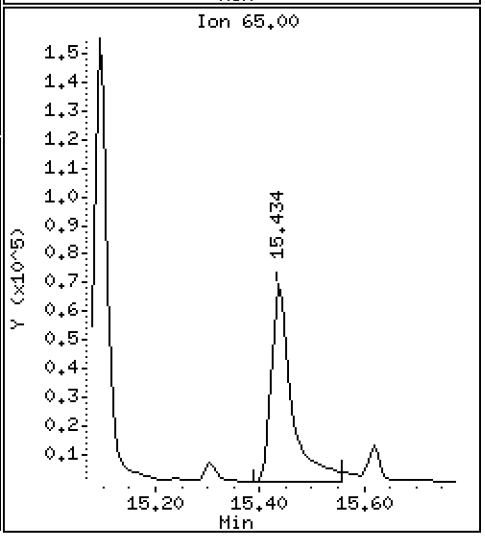


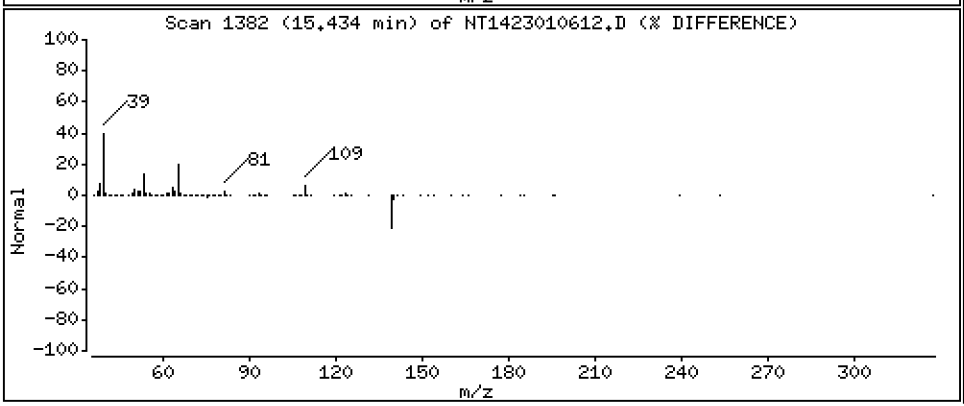












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

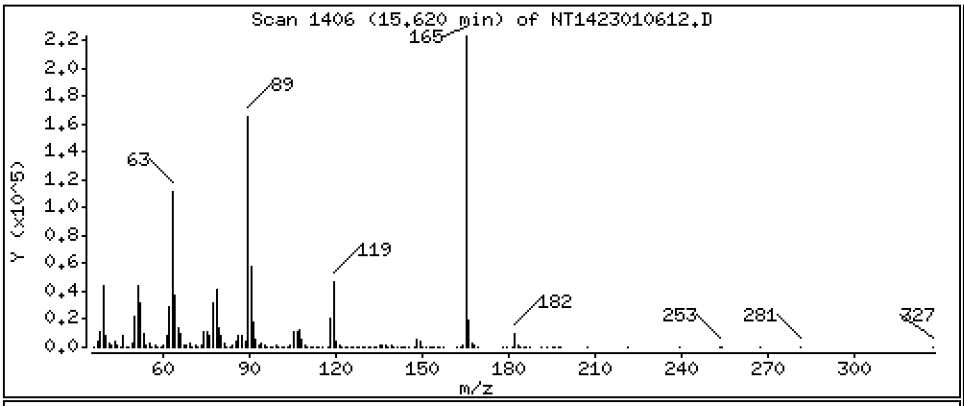
Operator: VTS

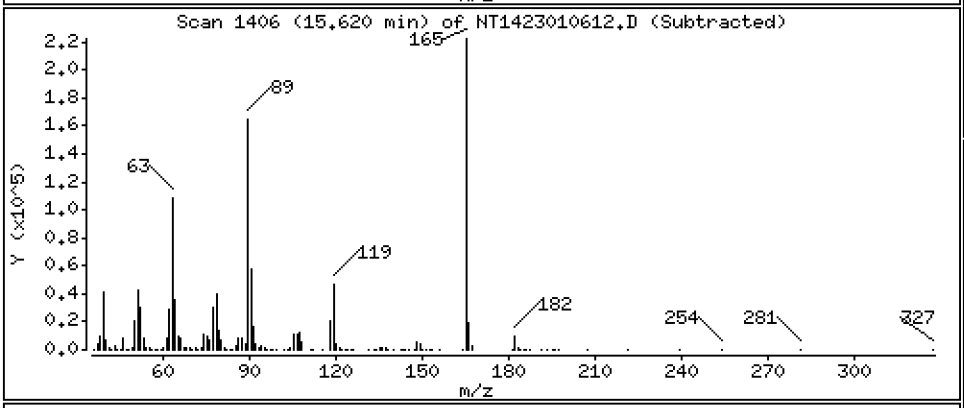
Column phase: ZB-5msi

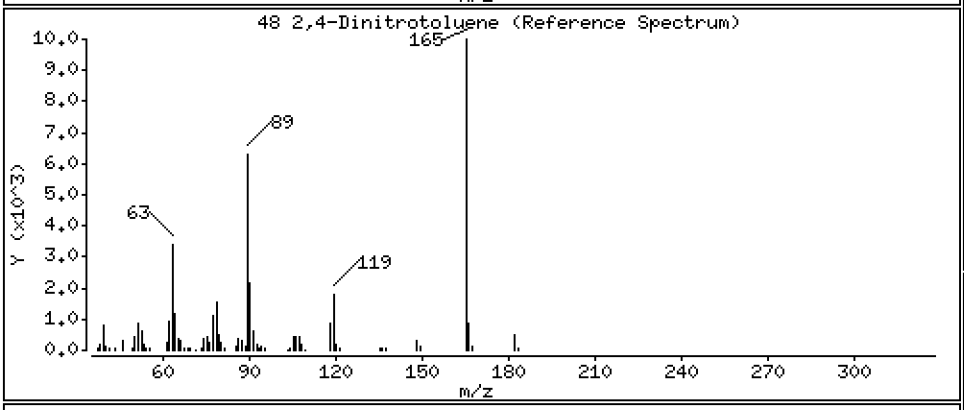
Column diameter: 0.25

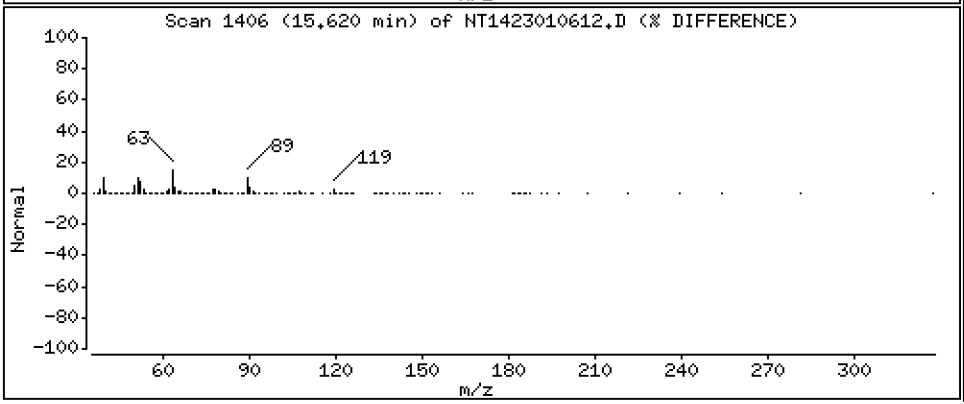
48 2,4-Dinitrotoluene

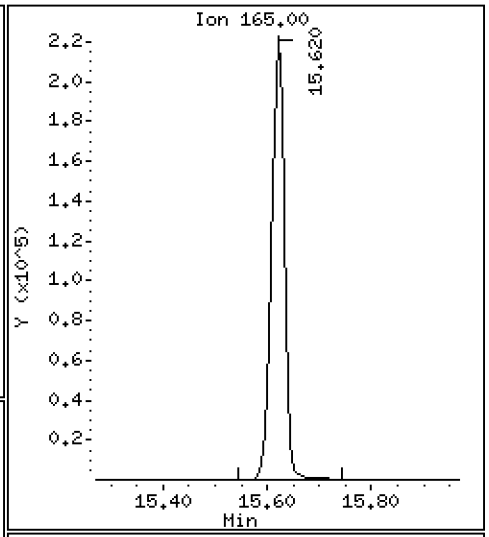
Concentration: 17.06 ug/mL

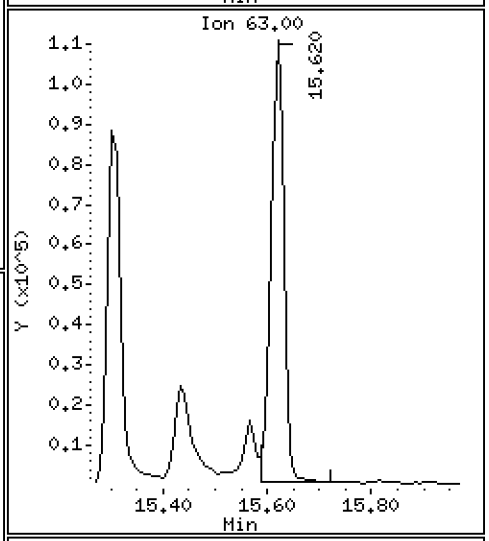


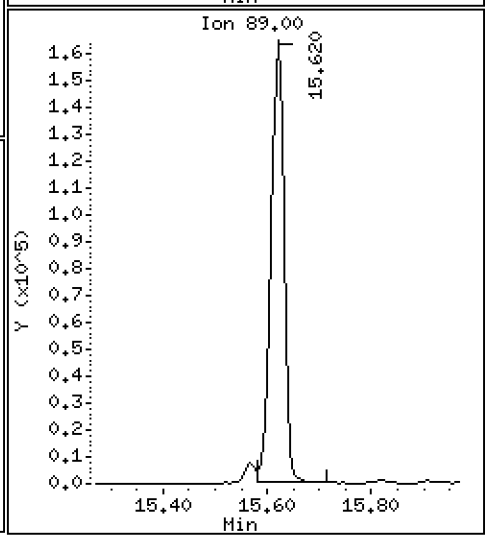












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

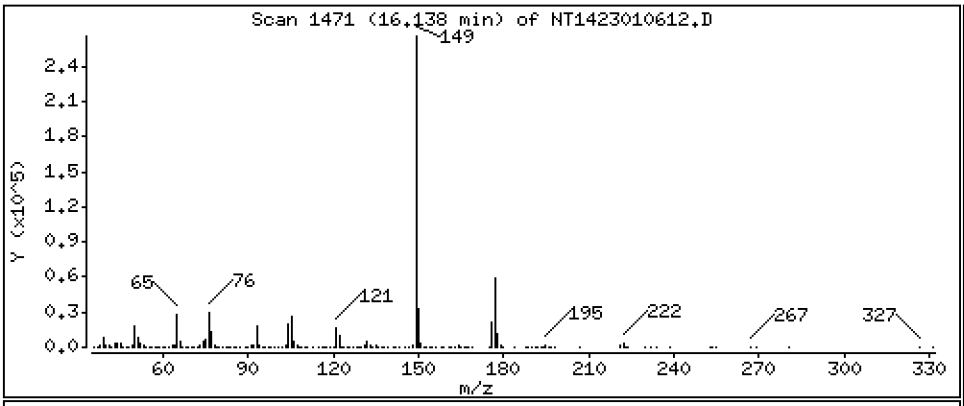
Operator: VTS

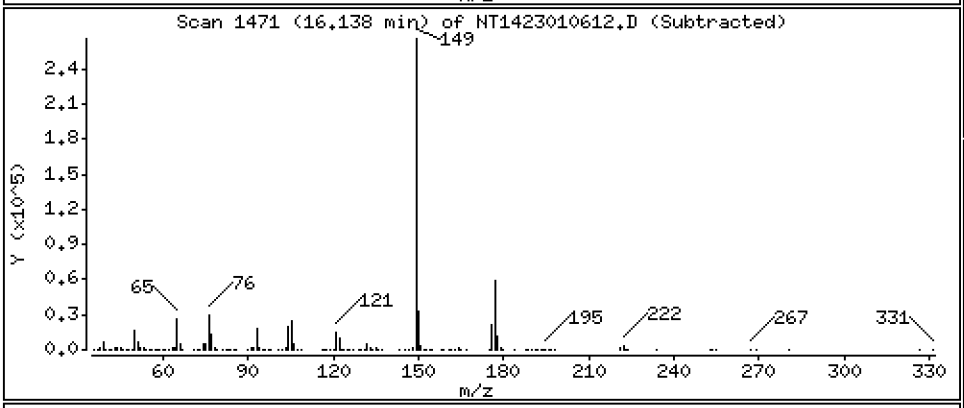
Column phase: ZB-5msi

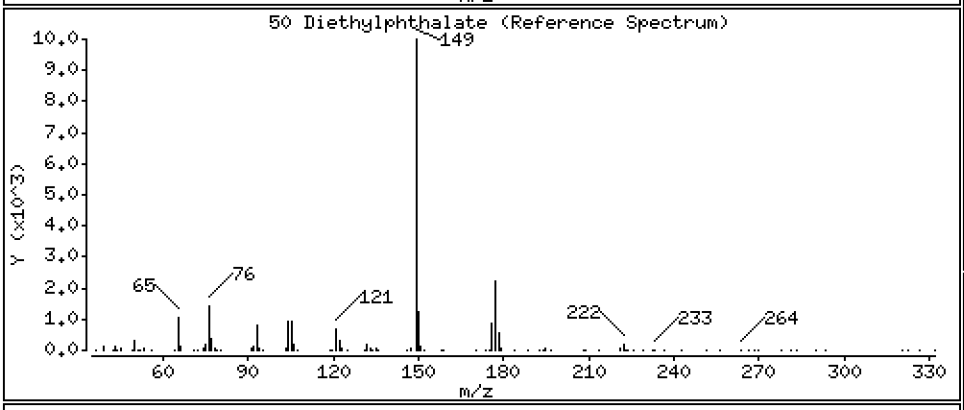
Column diameter: 0.25

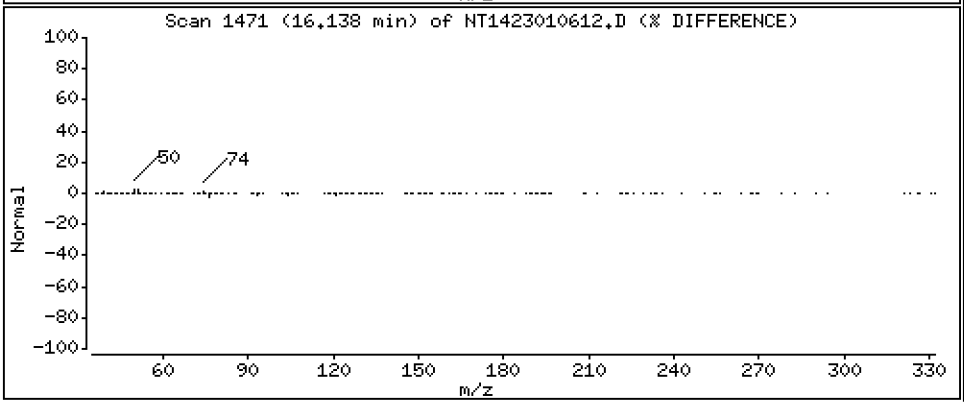
50 Diethylphthalate

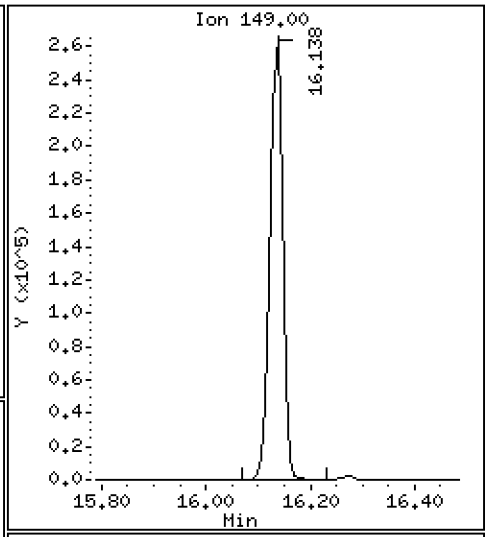
Concentration: 5.101 ug/mL

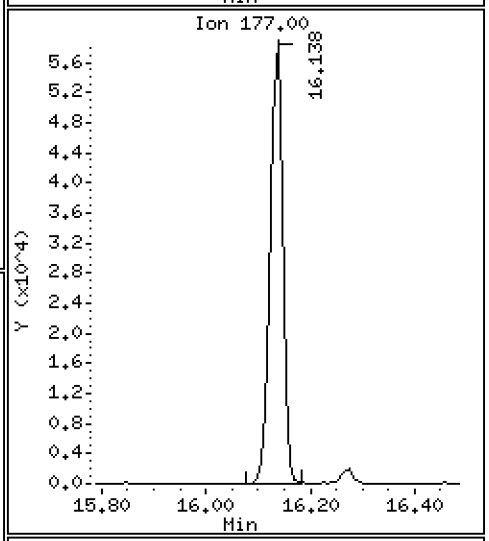


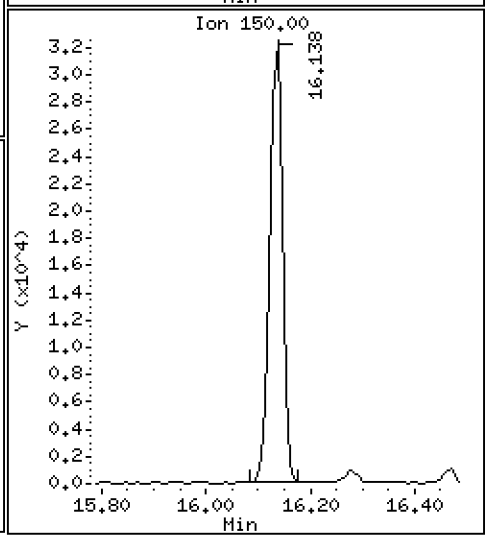












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

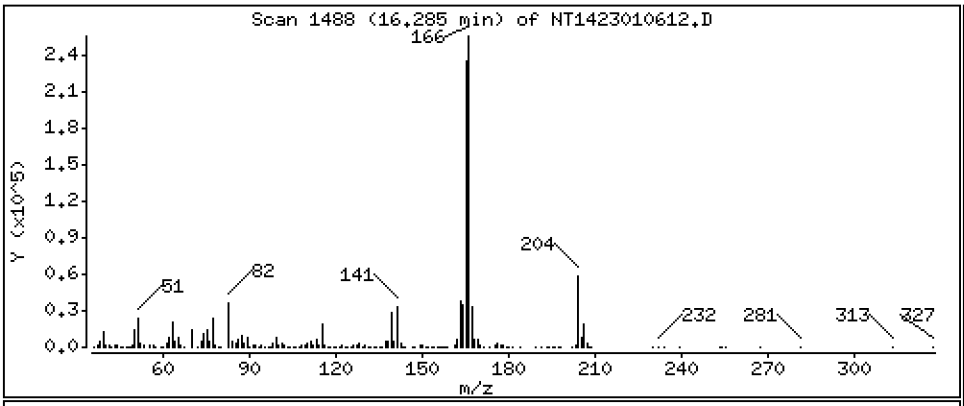
Operator: VTS

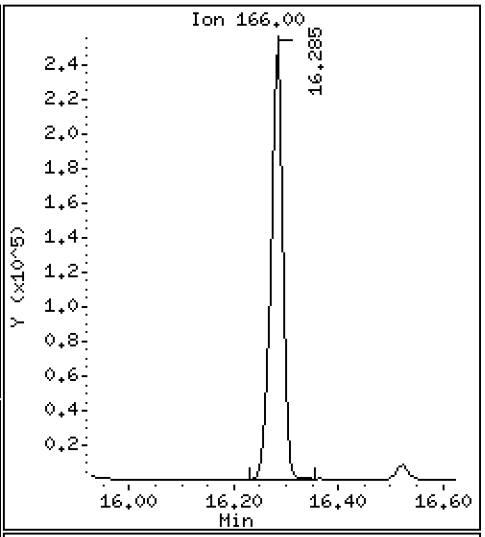
Column phase: ZB-5msi

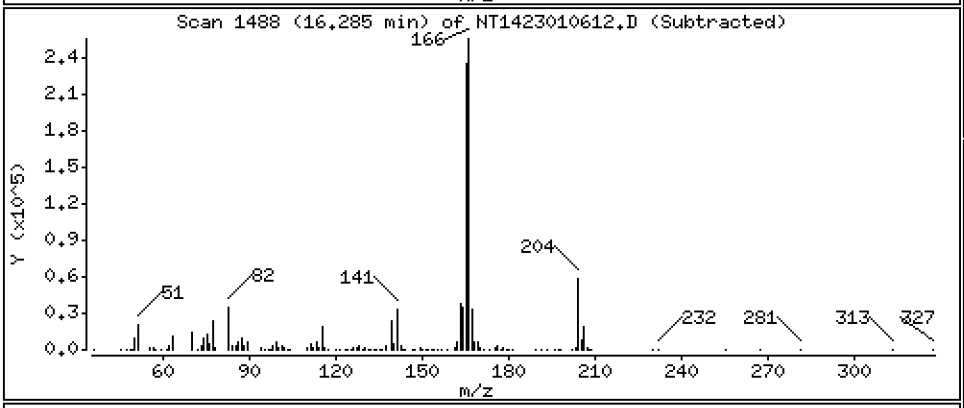
Column diameter: 0.25

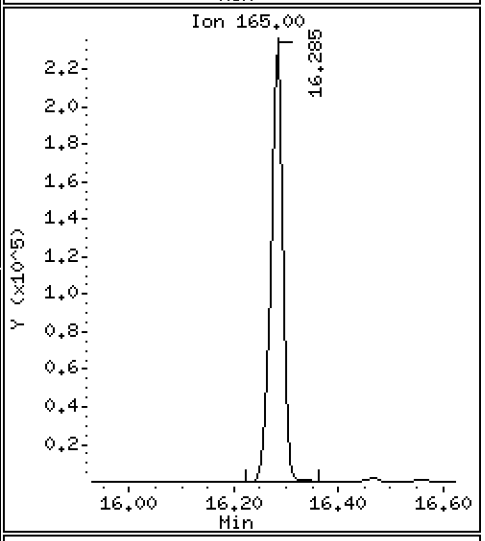
49 Fluorene

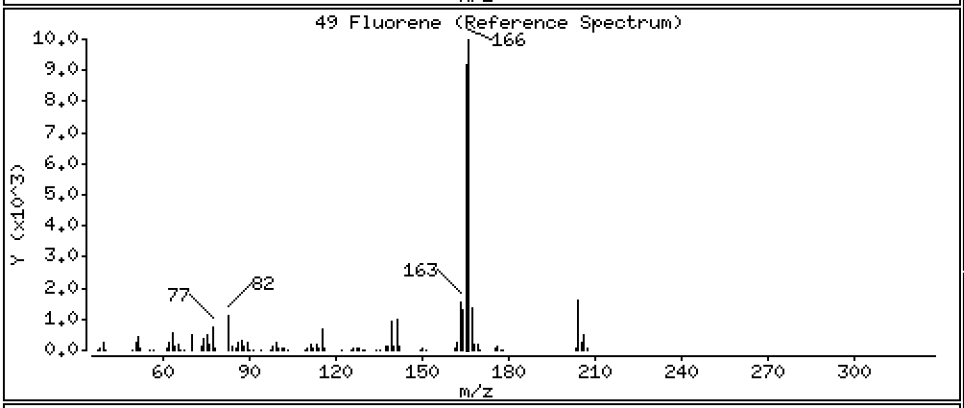
Concentration: 3.849 ug/mL

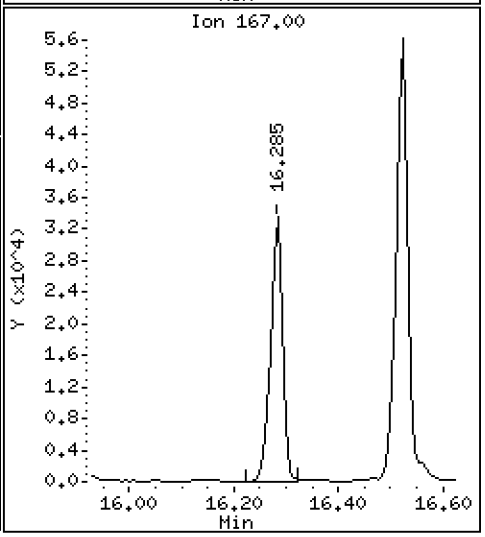


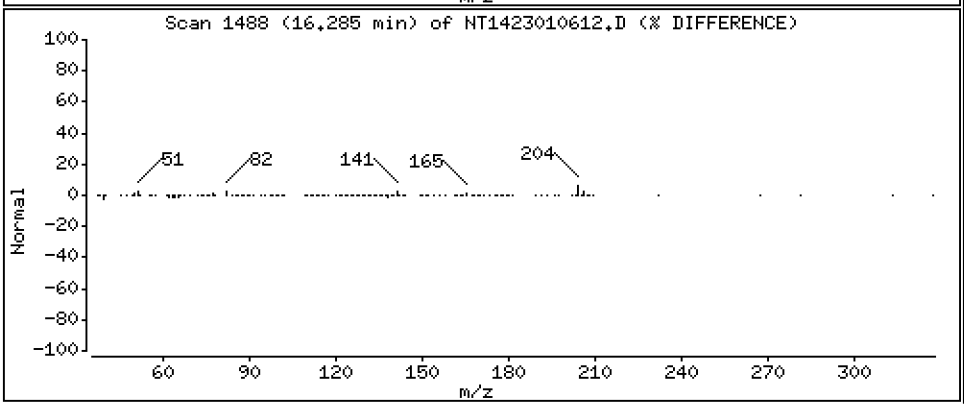












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

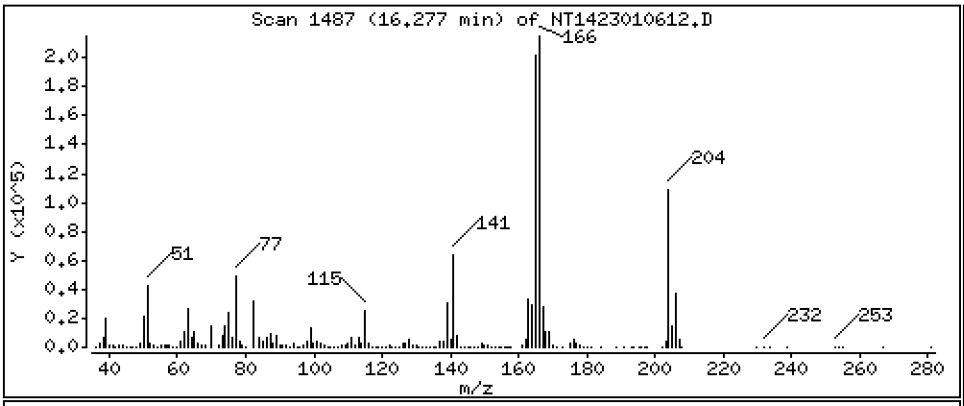
Operator: VTS

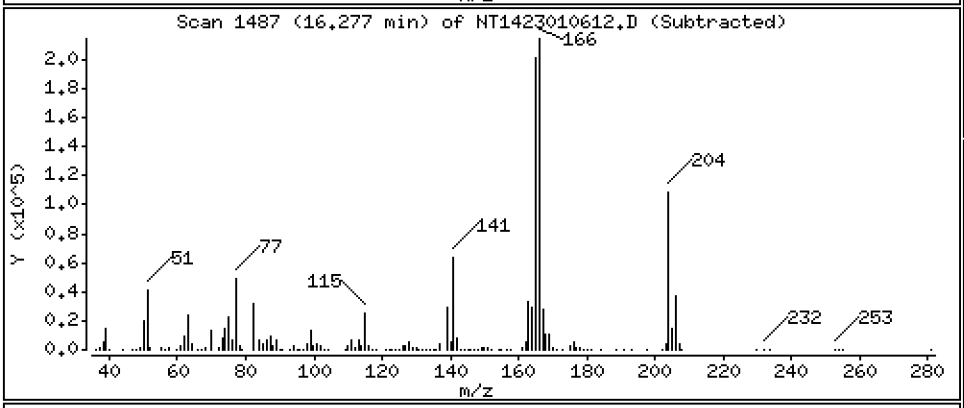
Column phase: ZB-5msi

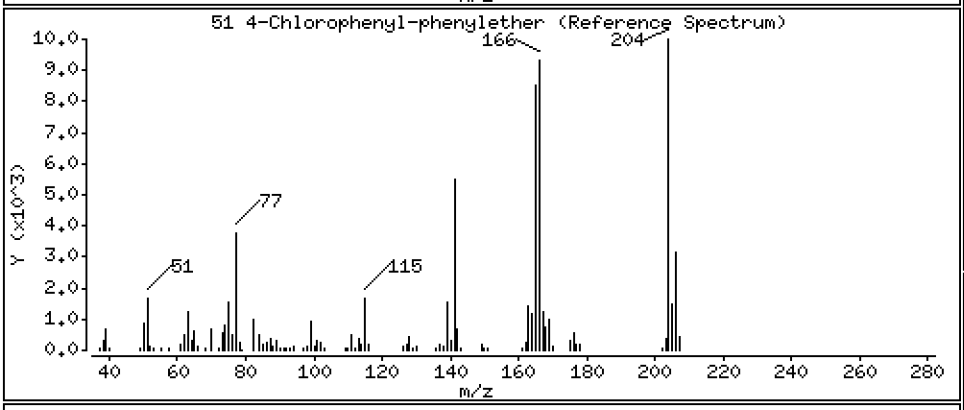
Column diameter: 0.25

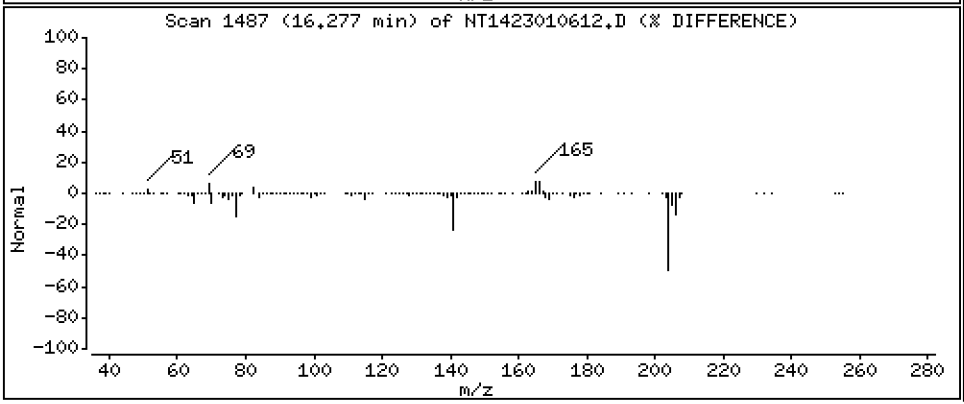
51 4-Chlorophenyl-phenylether

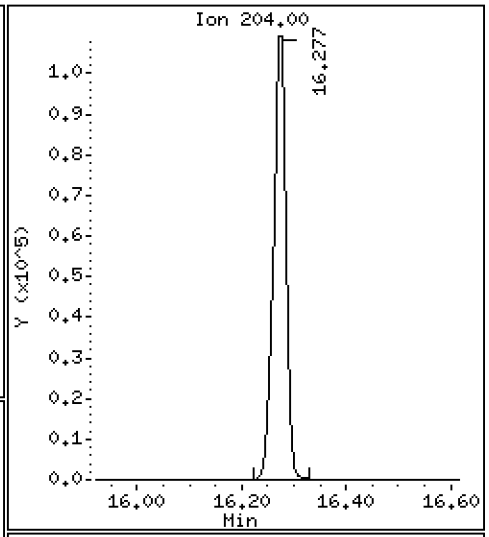
Concentration: 3.583 ug/mL

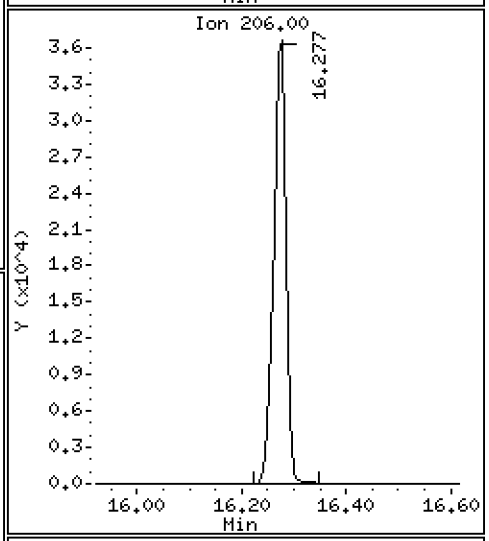


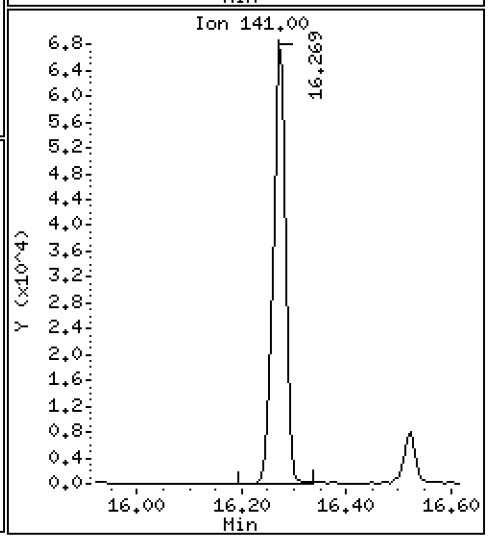












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

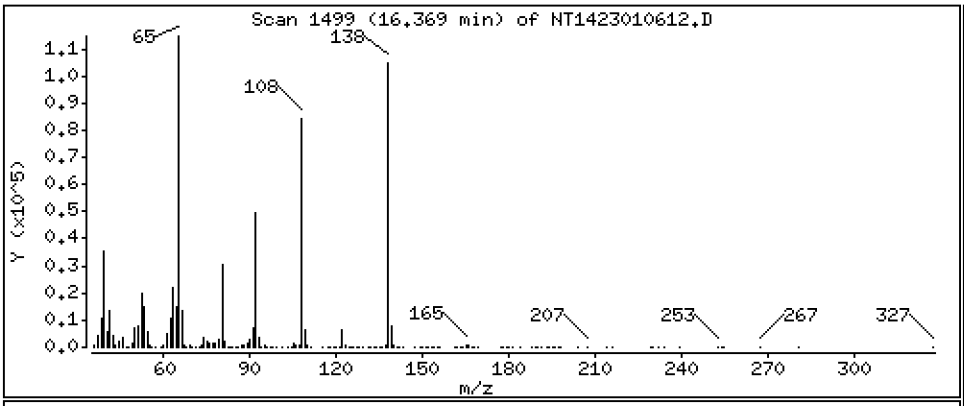
Operator: VTS

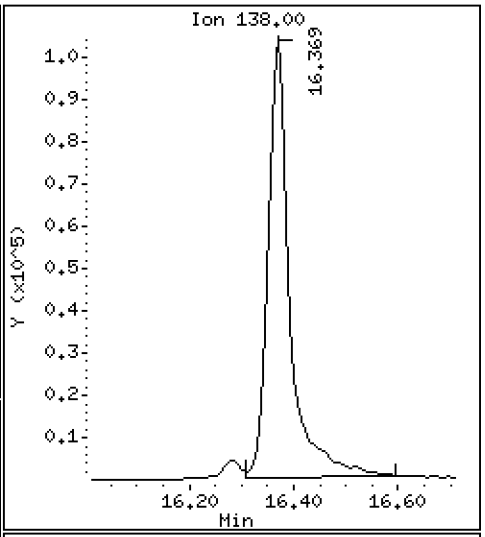
Column phase: ZB-5msi

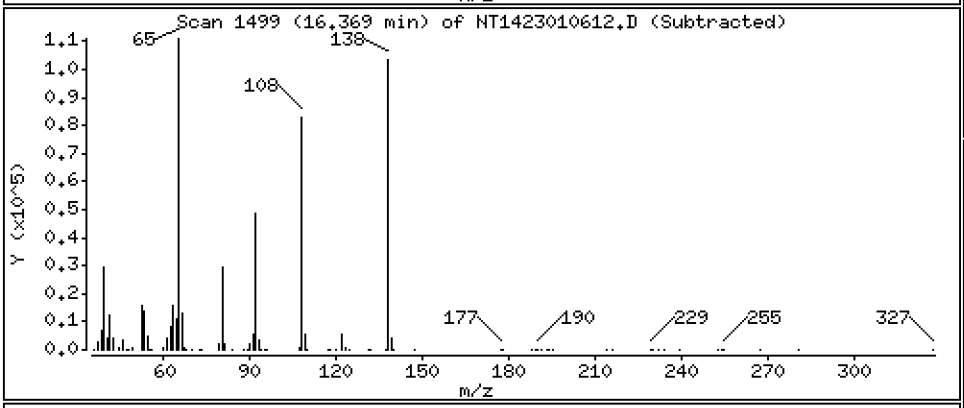
Column diameter: 0.25

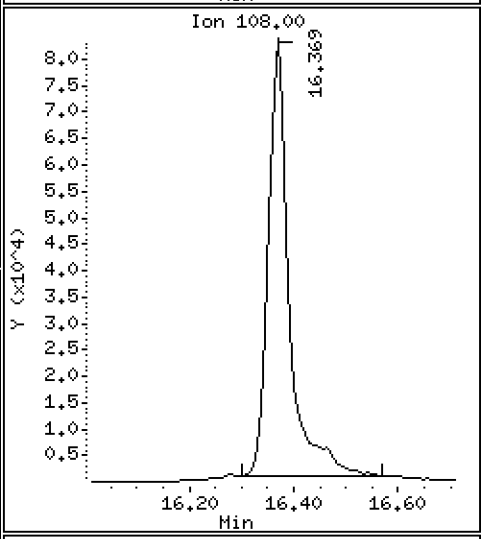
52 4-Nitroaniline

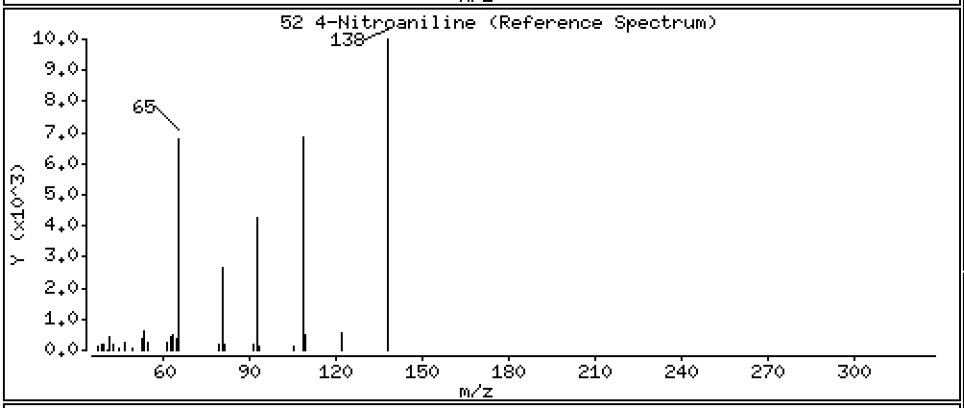
Concentration: 12.74 ug/mL

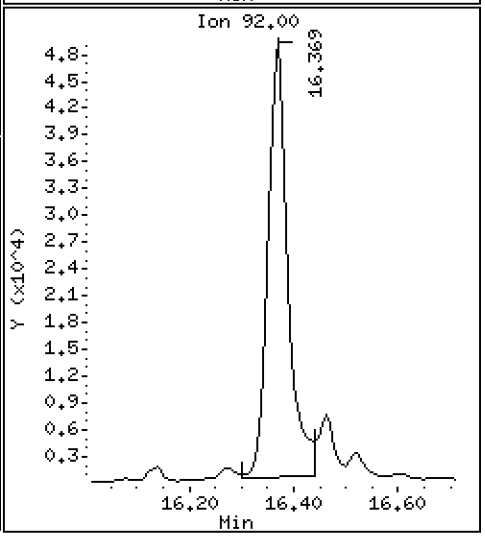


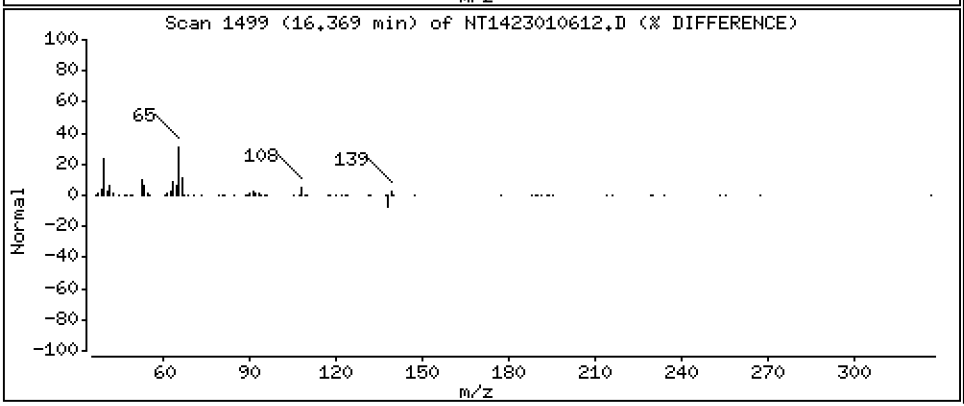












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

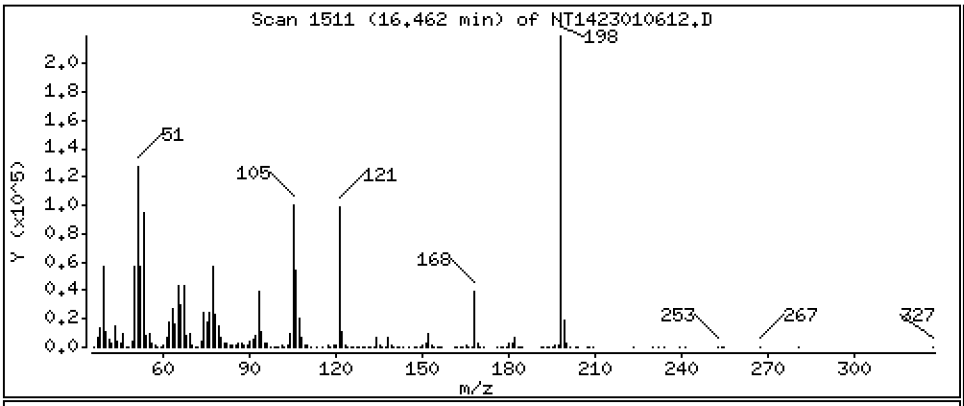
Operator: VTS

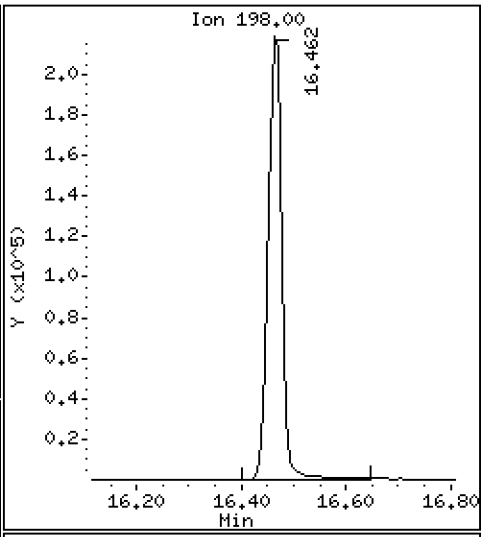
Column phase: ZB-5msi

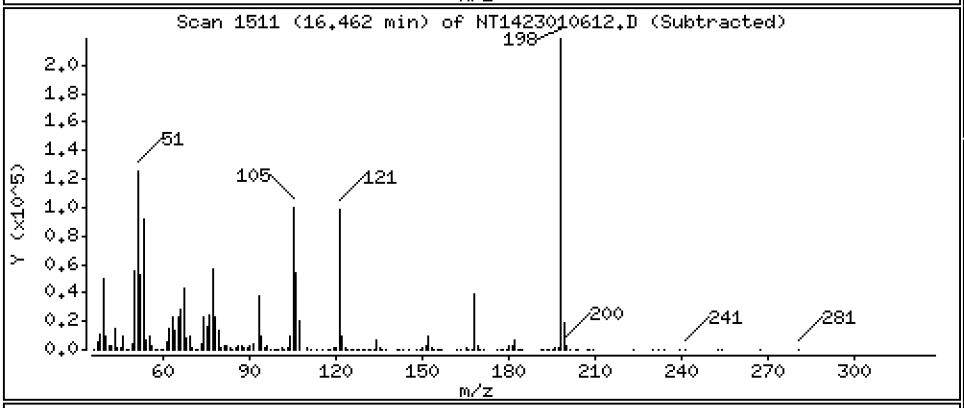
Column diameter: 0.25

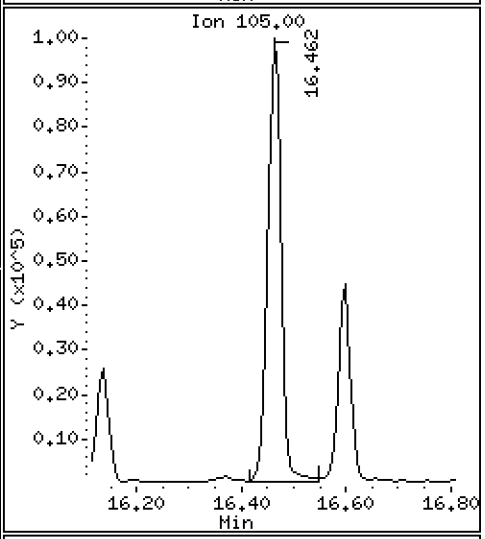
53 4,6-Dinitro-2-methylphenol

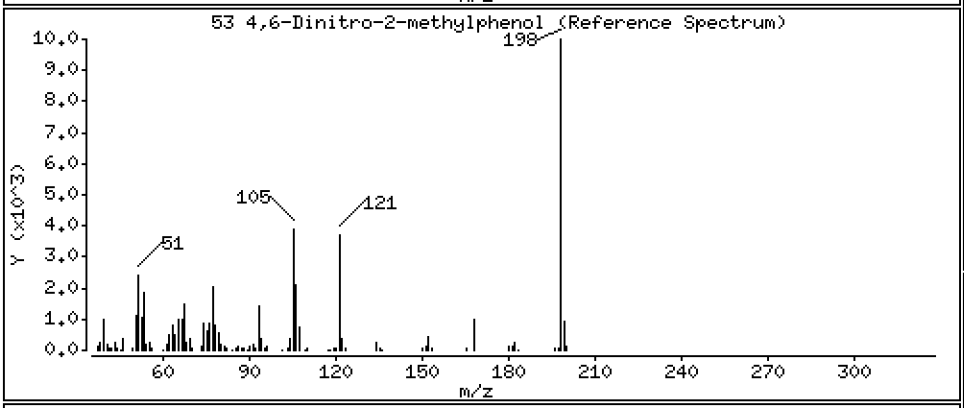
Concentration: 20.54 ug/mL

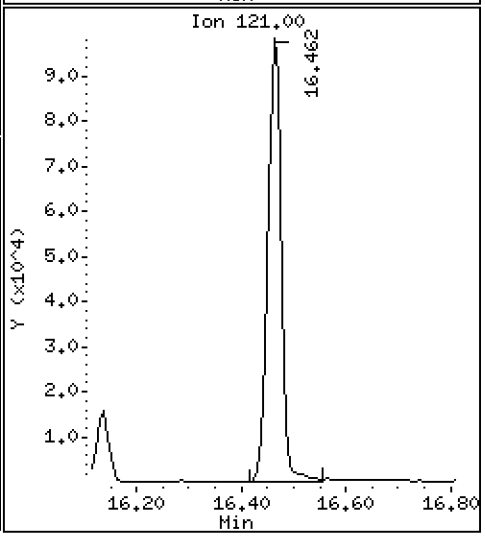


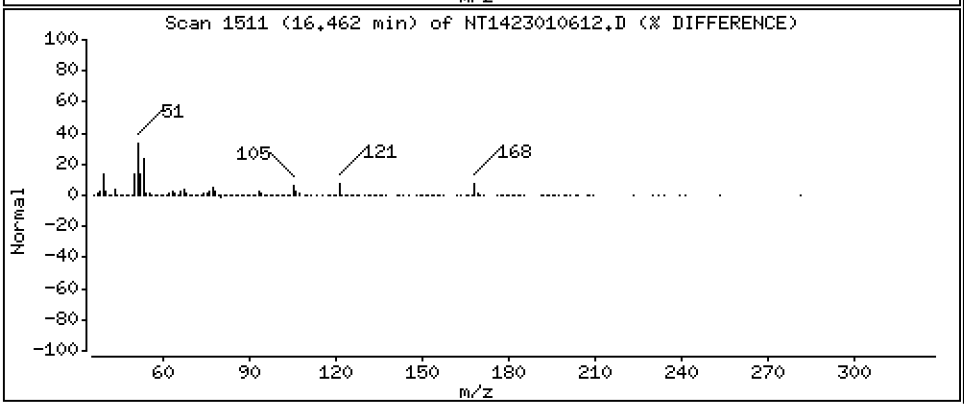












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

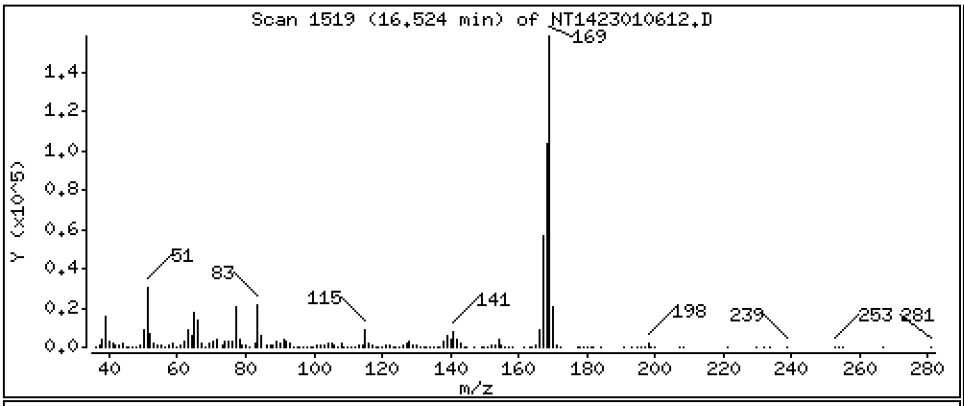
Operator: VTS

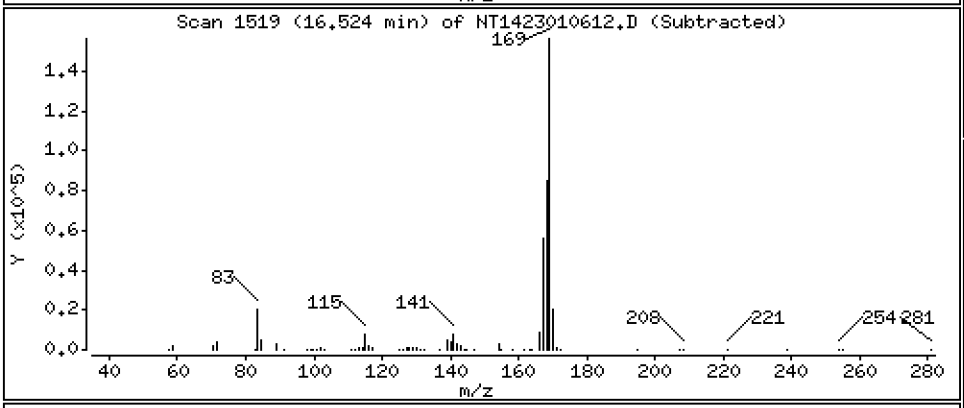
Column phase: ZB-5msi

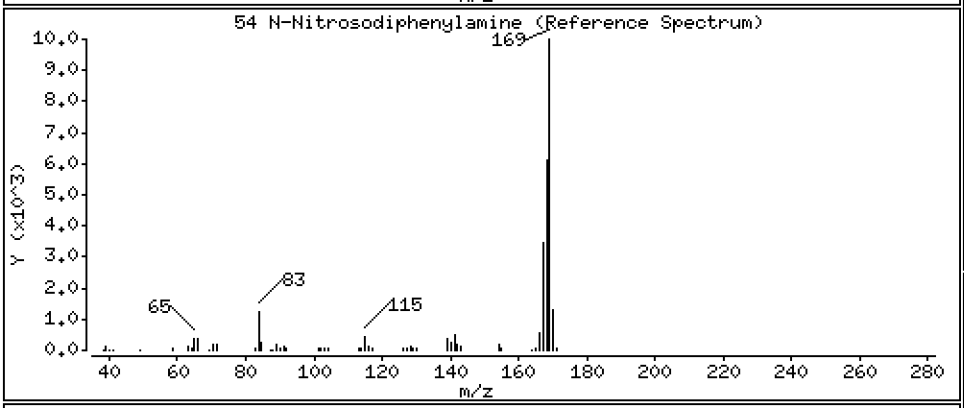
Column diameter: 0.25

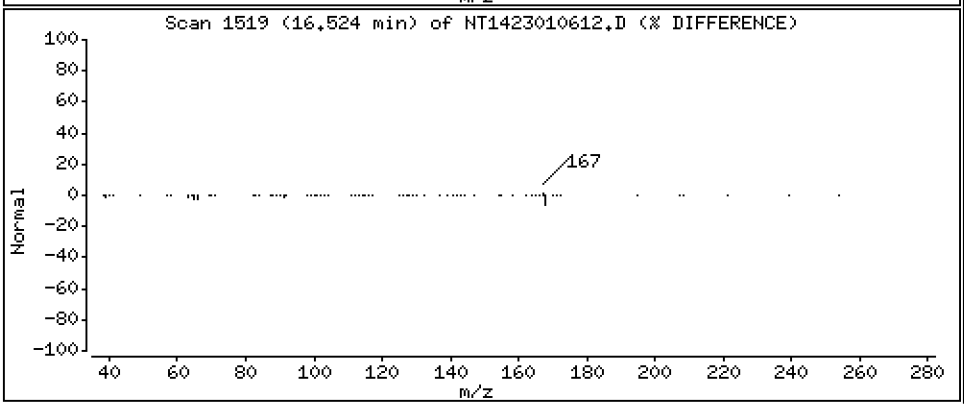
54 N-Nitrosodiphenylamine

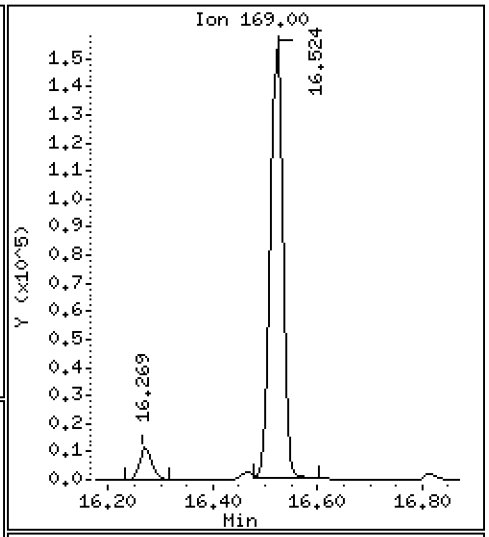
Concentration: 3.387 ug/mL

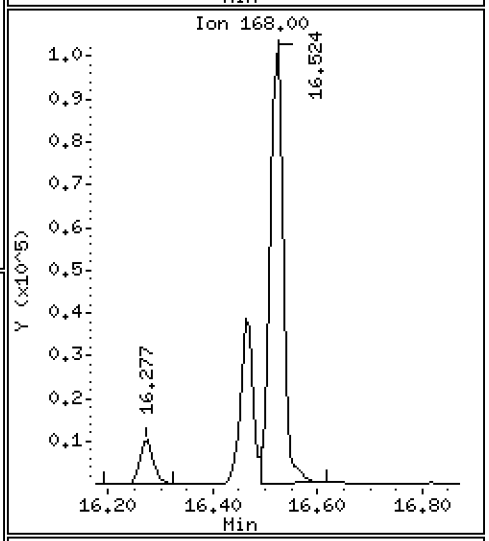


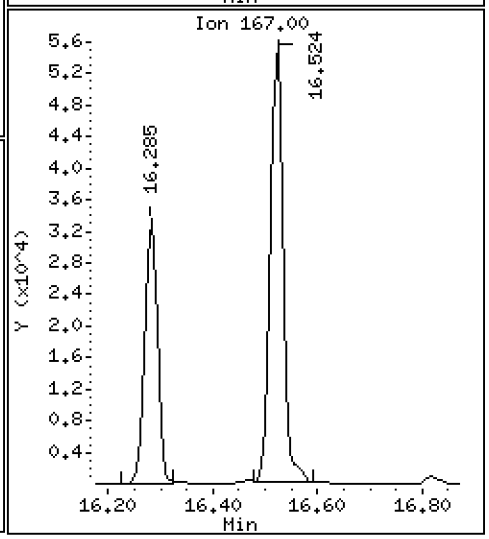












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

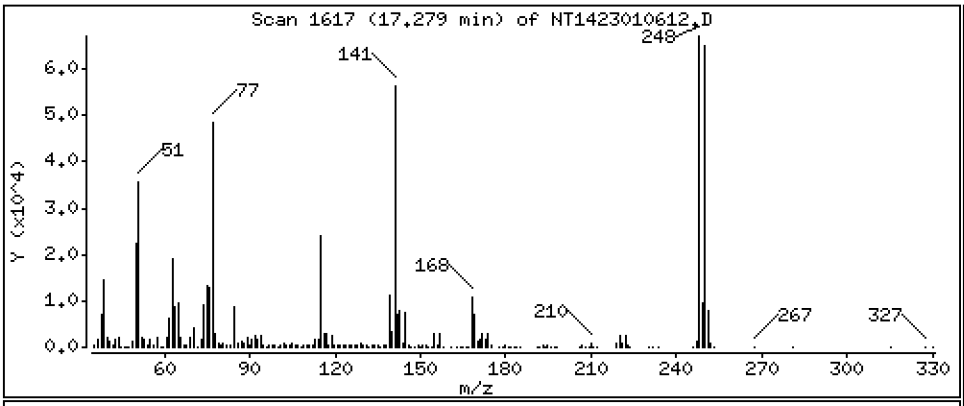
Operator: VTS

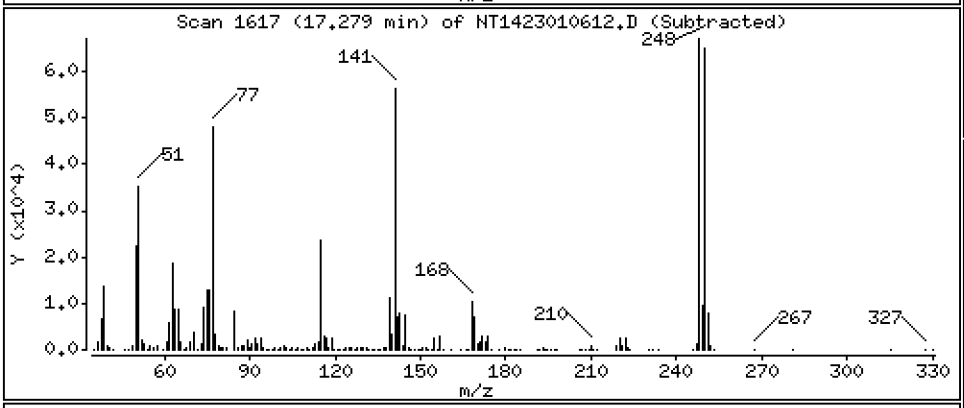
Column phase: ZB-5msi

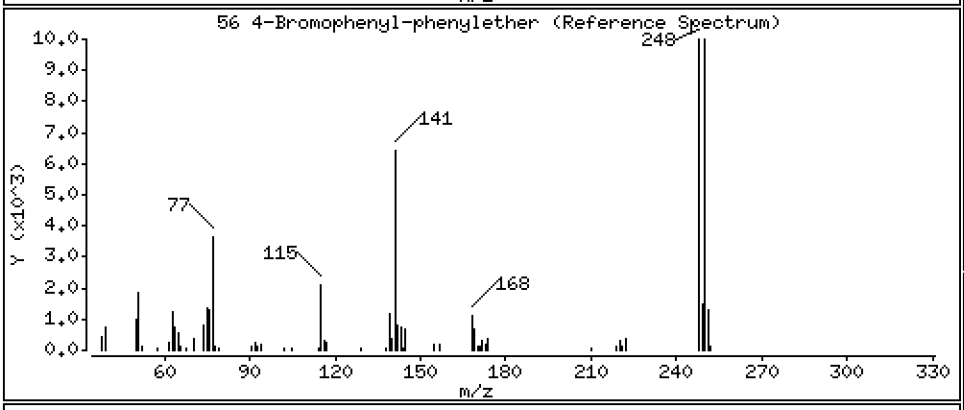
Column diameter: 0.25

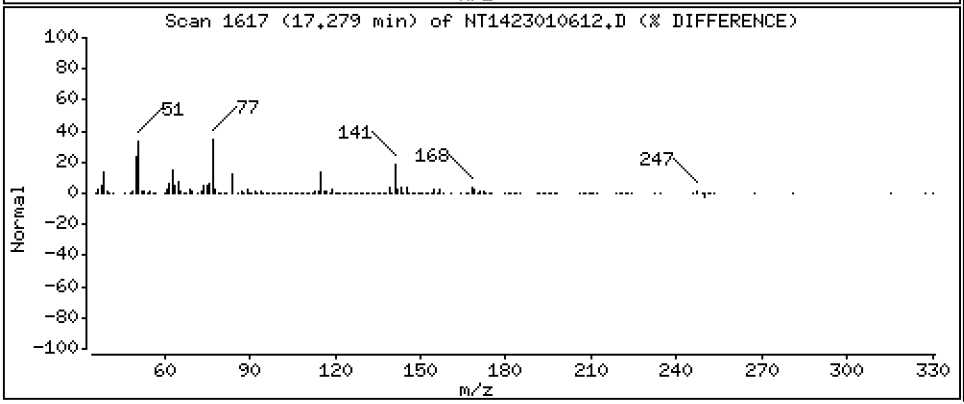
56 4-Bromophenyl-phenylether

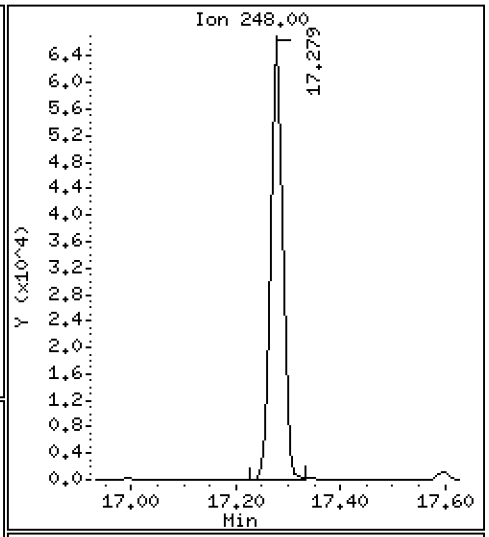
Concentration: 3.797 ug/mL

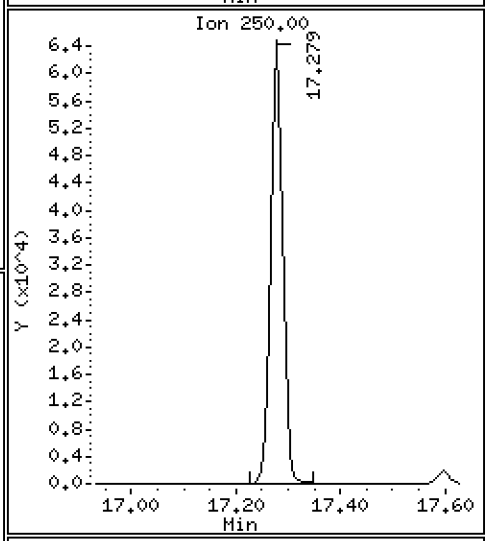


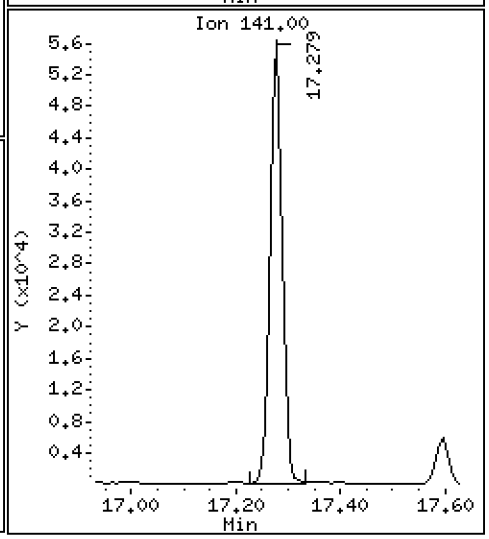












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

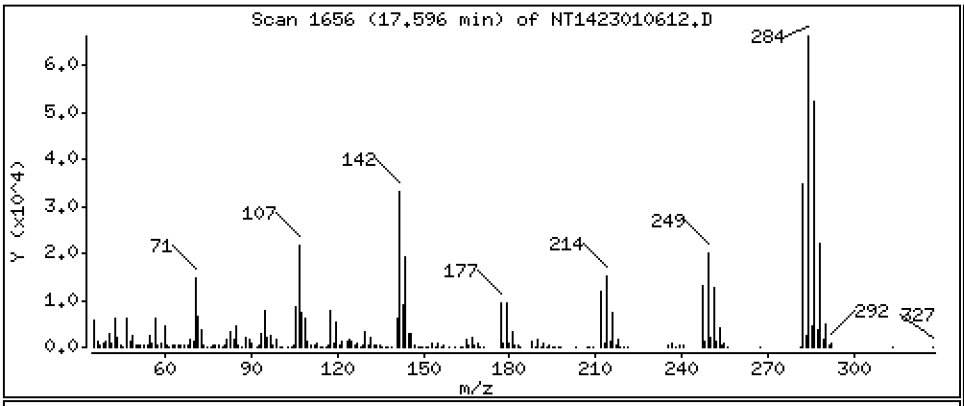
Operator: VTS

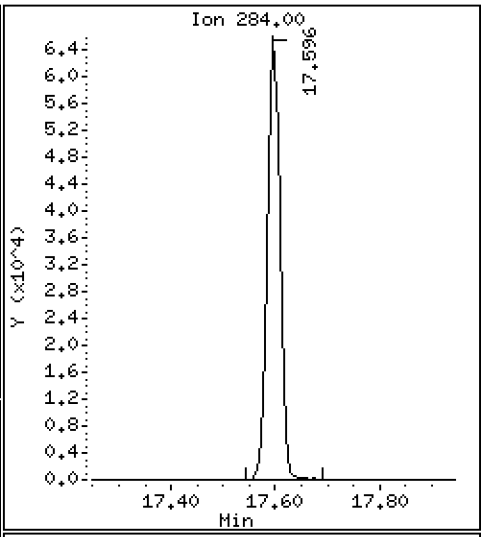
Column phase: ZB-5msi

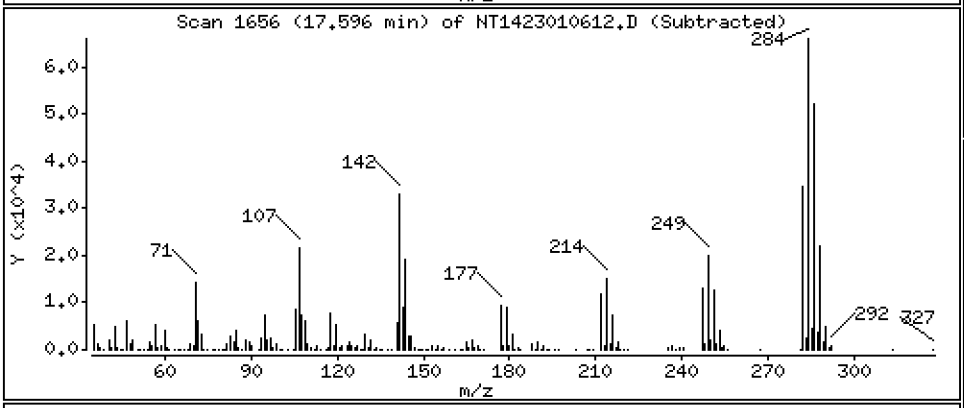
Column diameter: 0.25

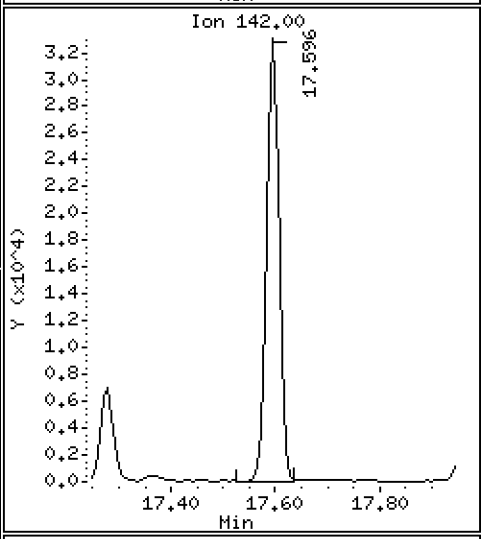
57 Hexachlorobenzene

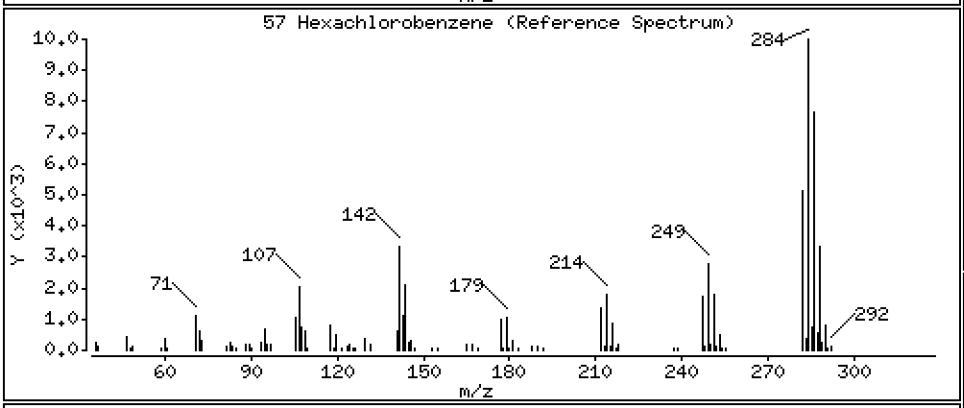
Concentration: 3.476 ug/mL

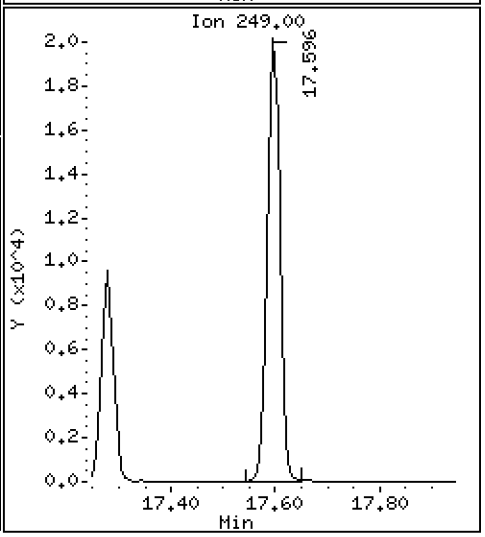


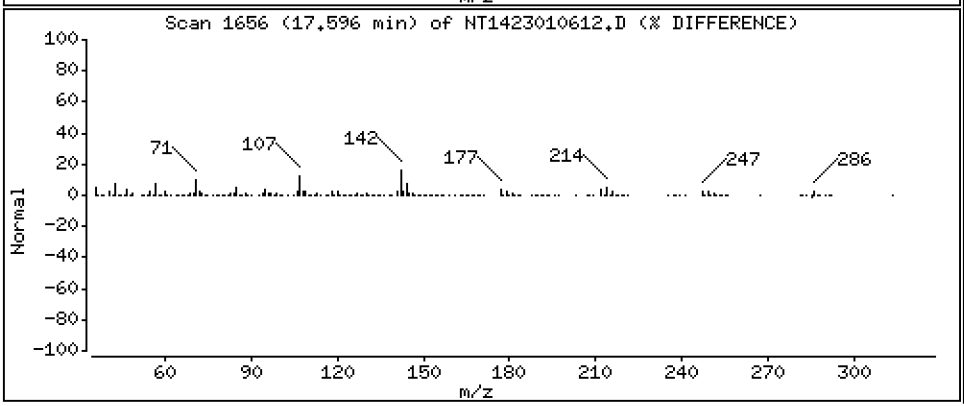












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

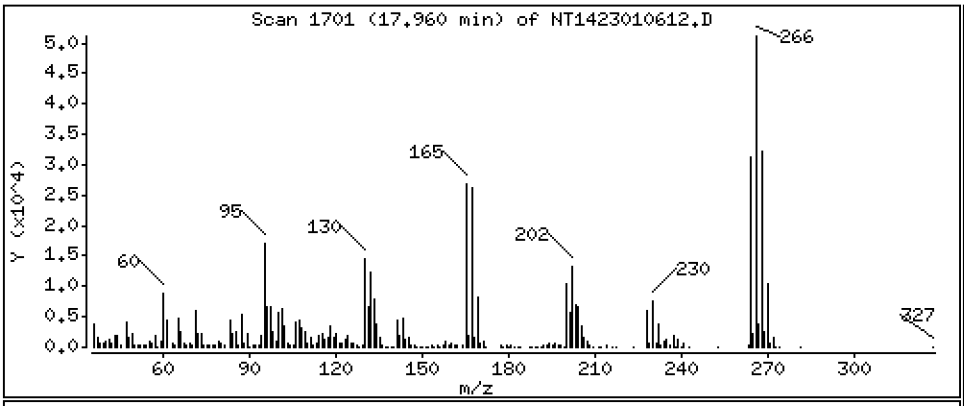
Operator: VTS

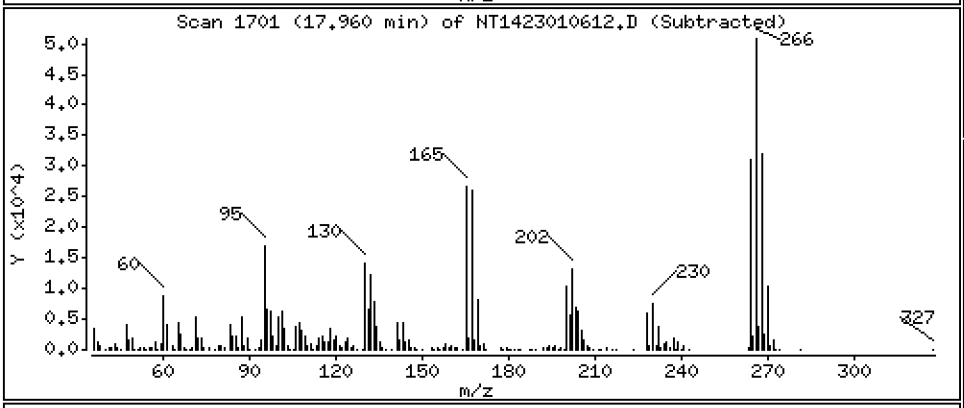
Column phase: ZB-5msi

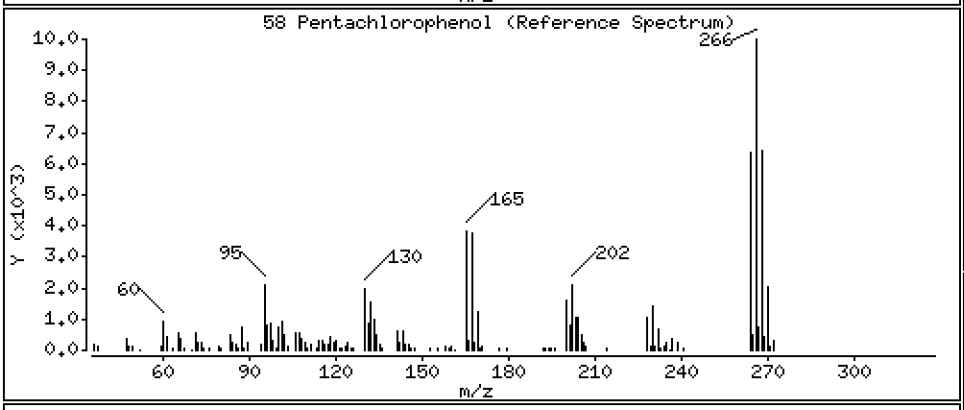
Column diameter: 0.25

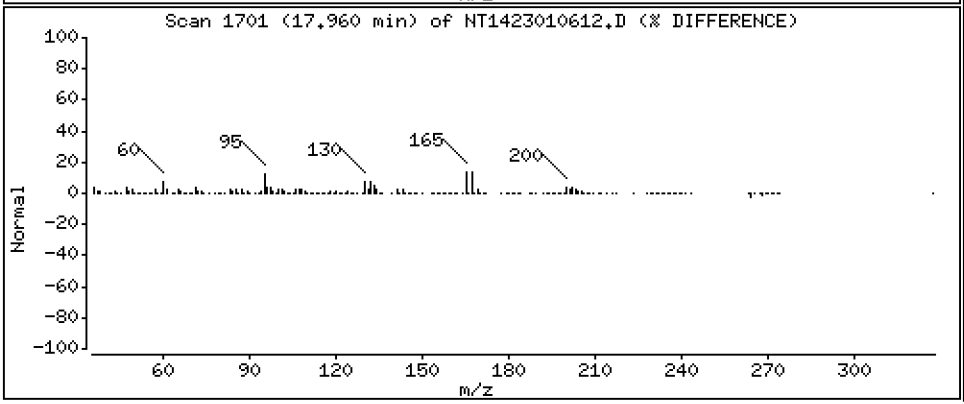
58 Pentachlorophenol

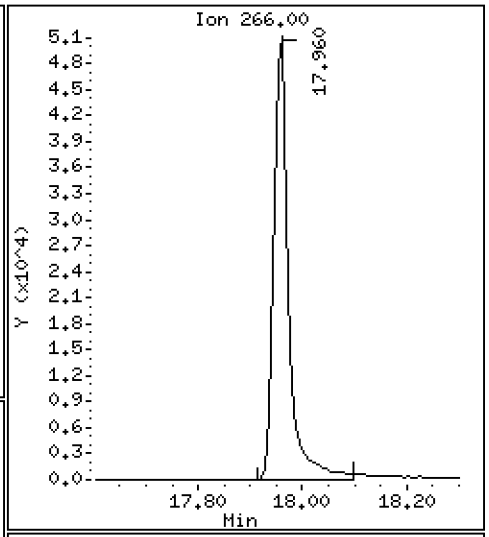
Concentration: 7.221 ug/mL

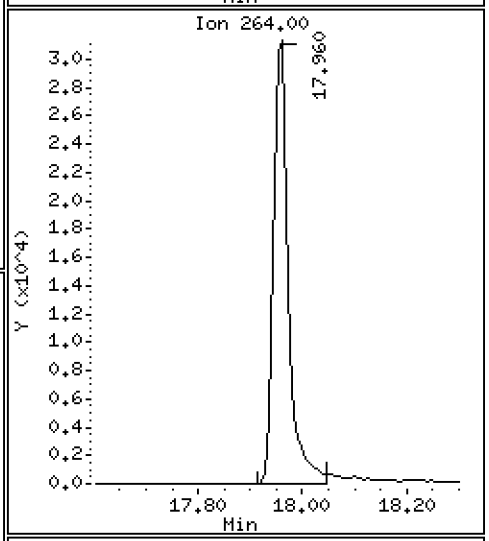


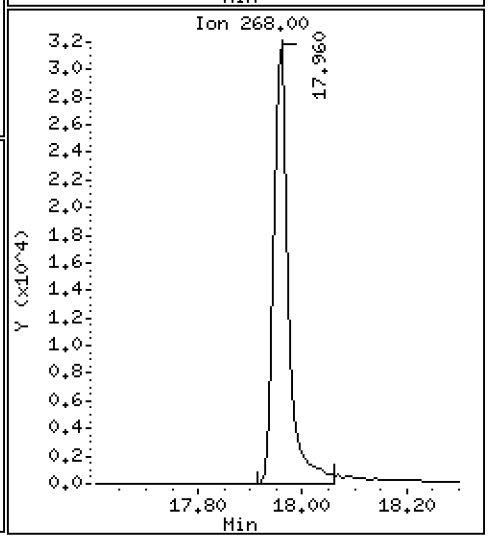












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

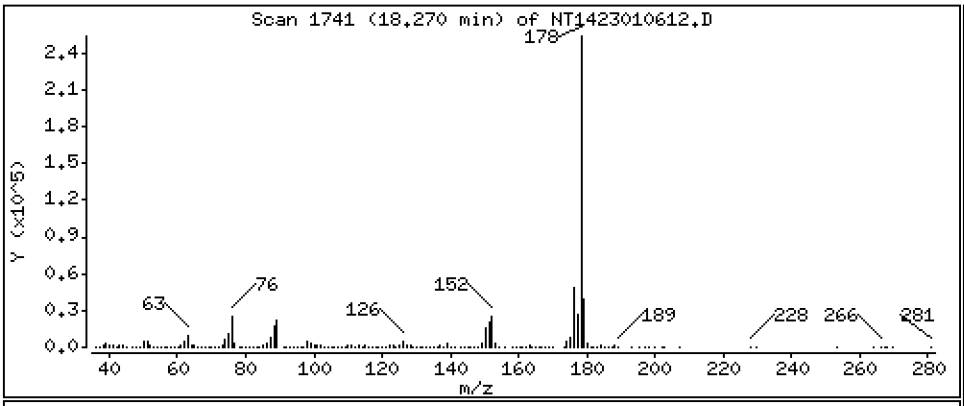
Operator: VTS

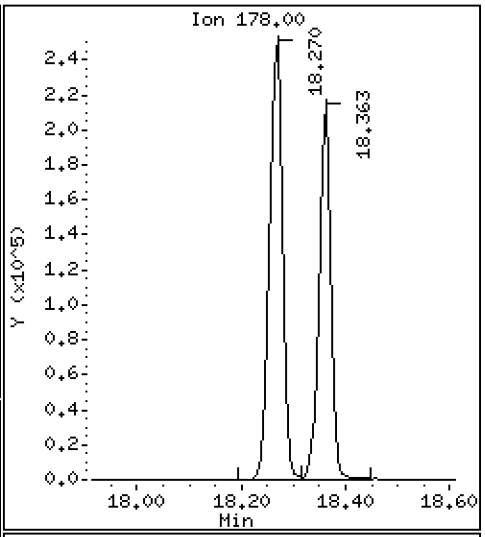
Column phase: ZB-5msi

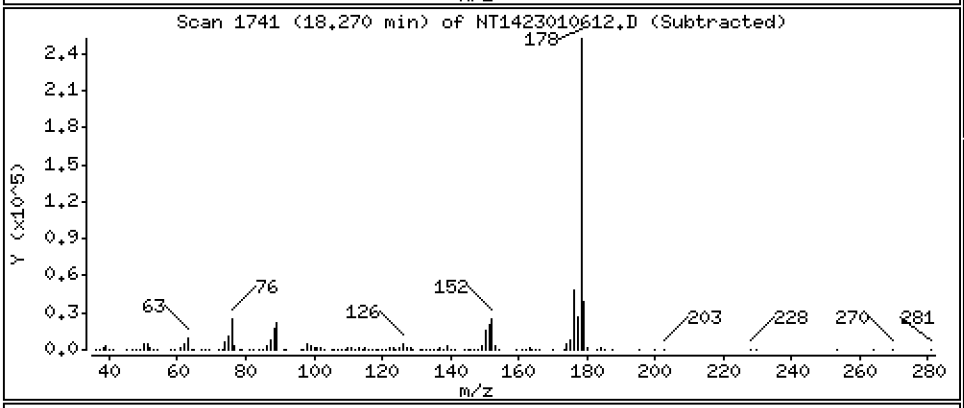
Column diameter: 0.25

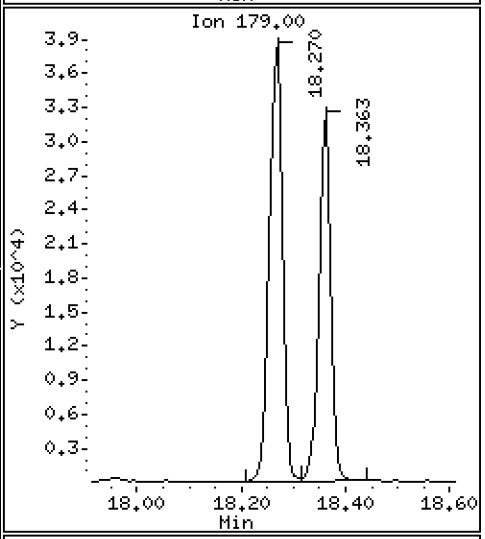
60 Phenanthrene

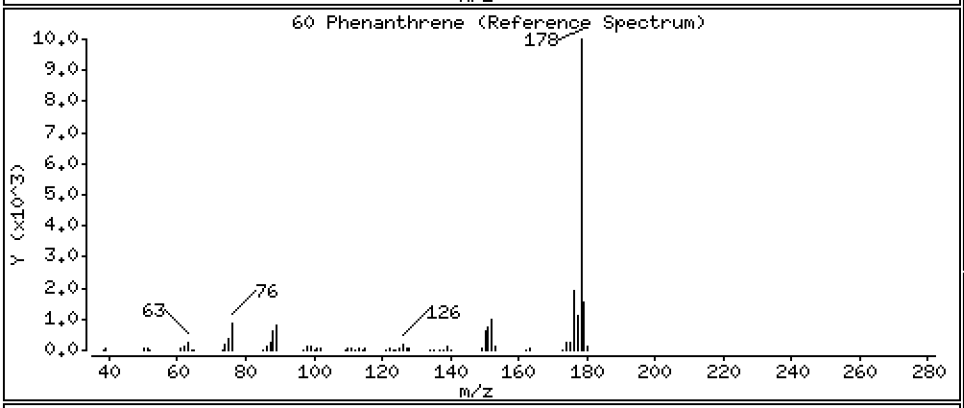
Concentration: 3.825 ug/mL

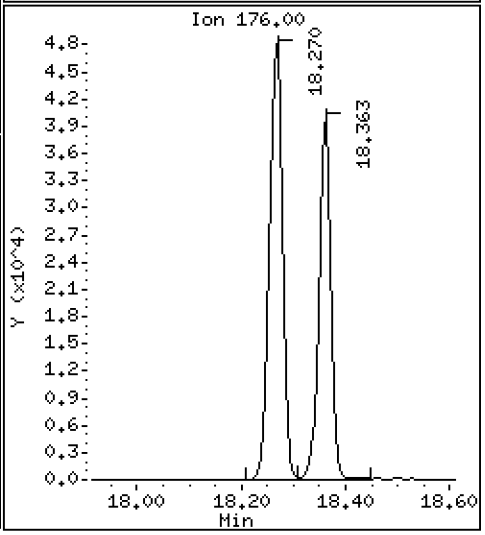


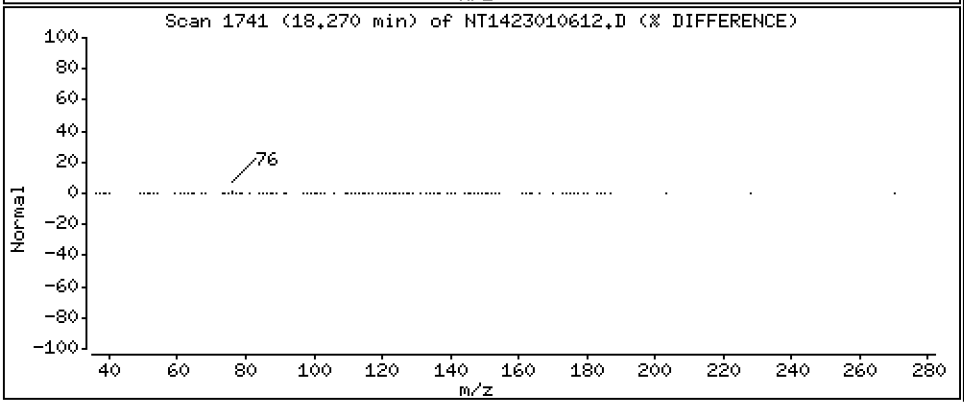












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

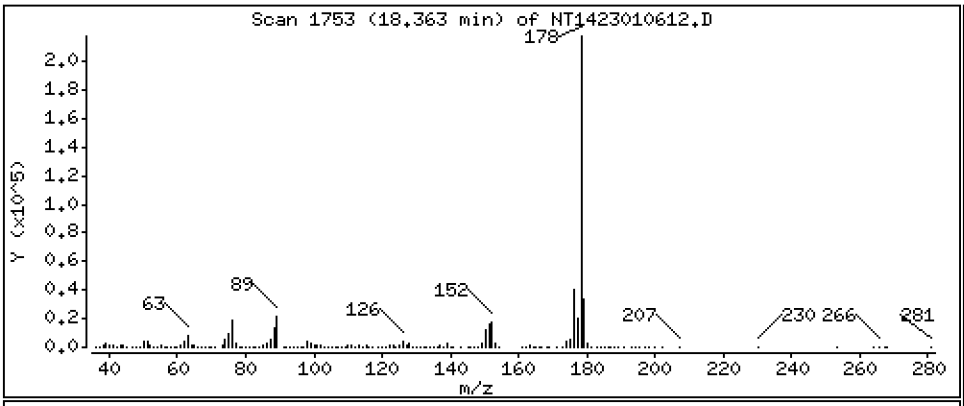
Operator: VTS

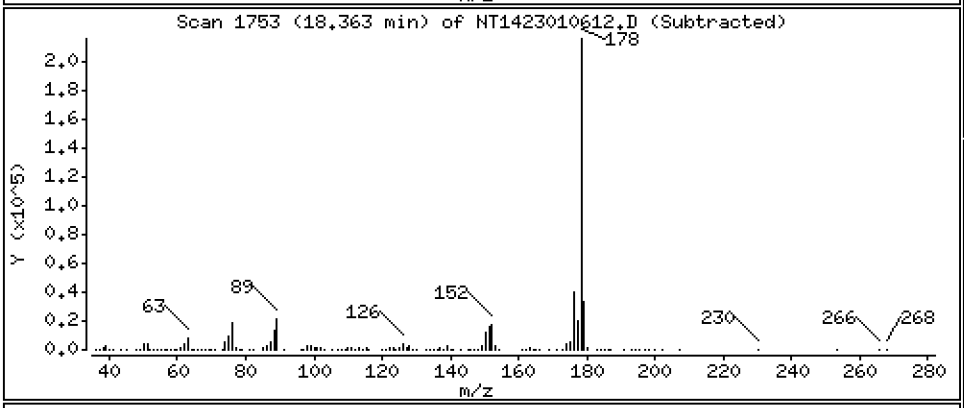
Column phase: ZB-5msi

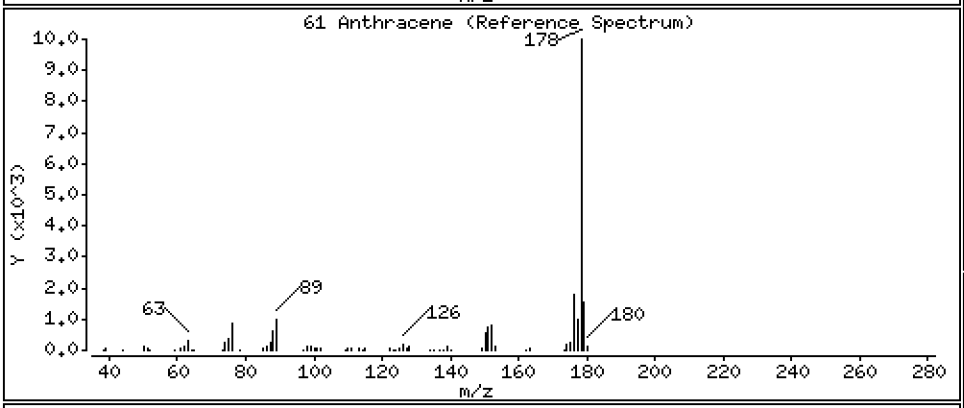
Column diameter: 0.25

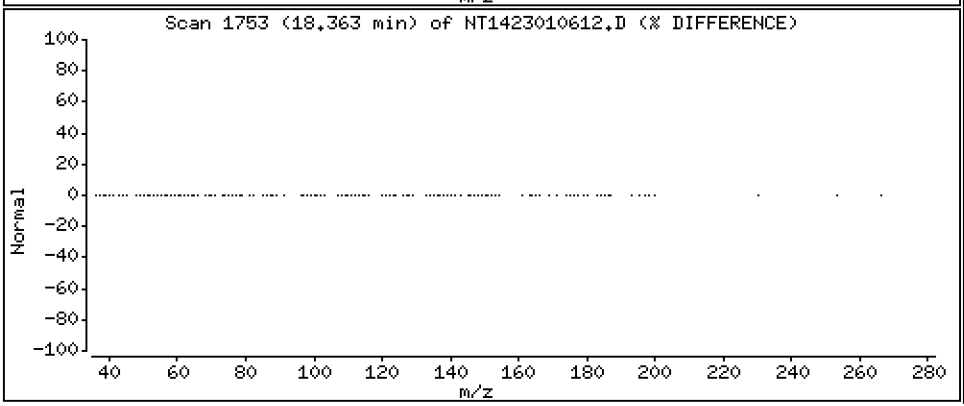
61 Anthracene

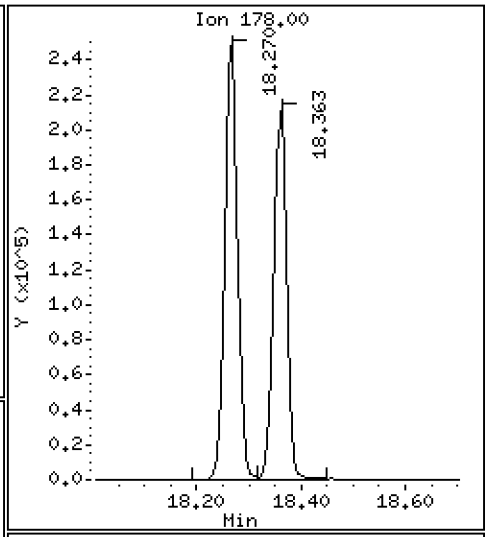
Concentration: 3.276 ug/mL

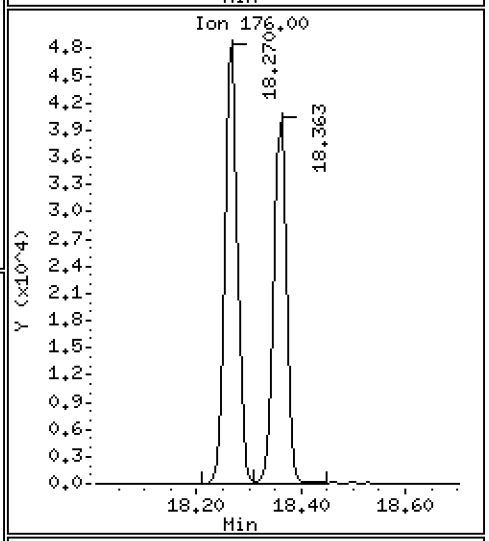


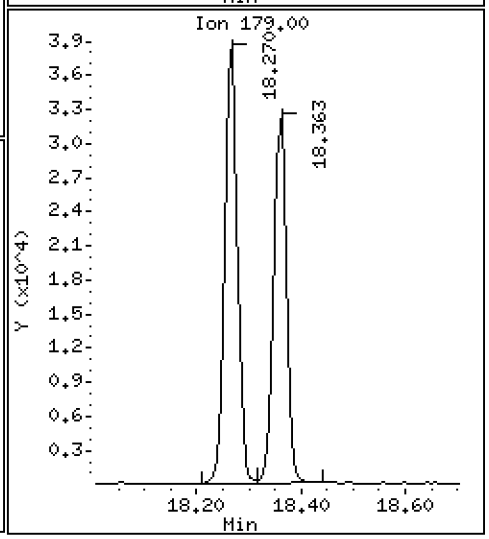












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

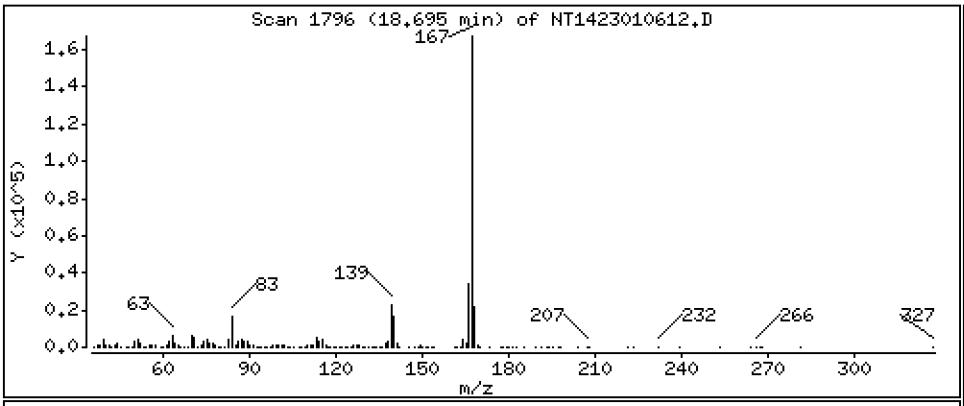
Operator: VTS

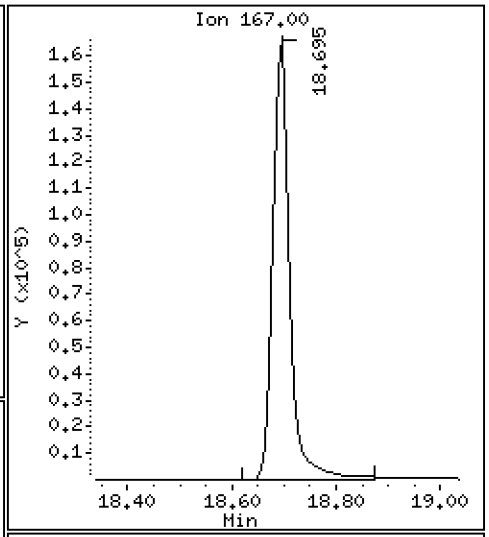
Column phase: ZB-5msi

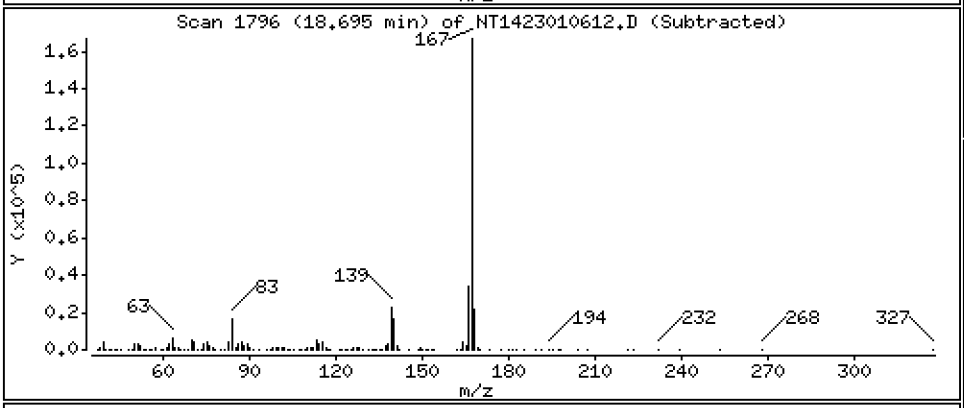
Column diameter: 0.25

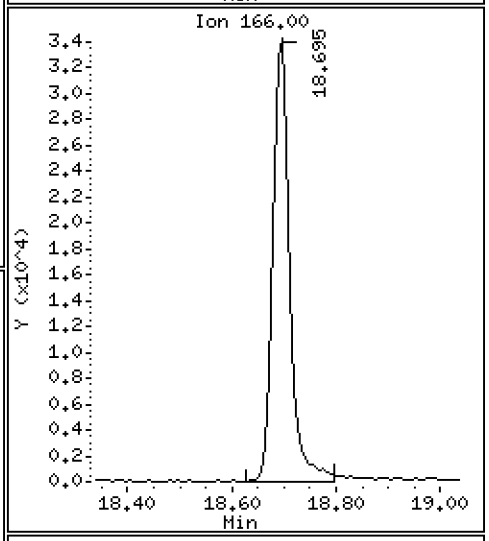
62 Carbazole

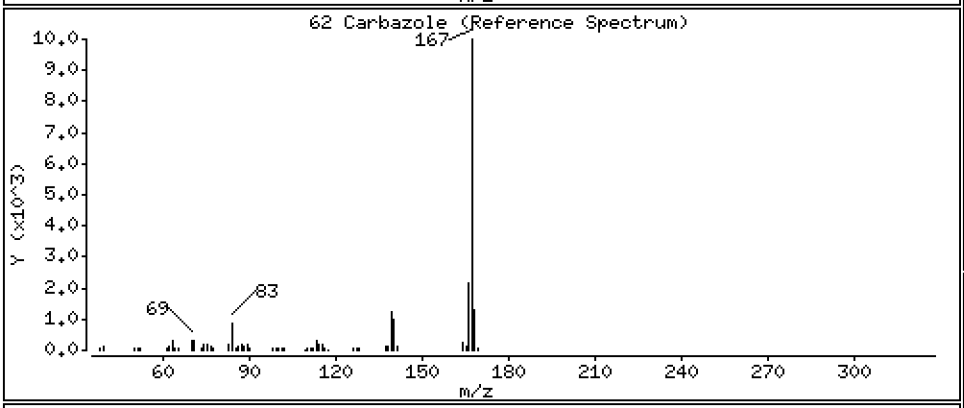
Concentration: 3.551 ug/mL

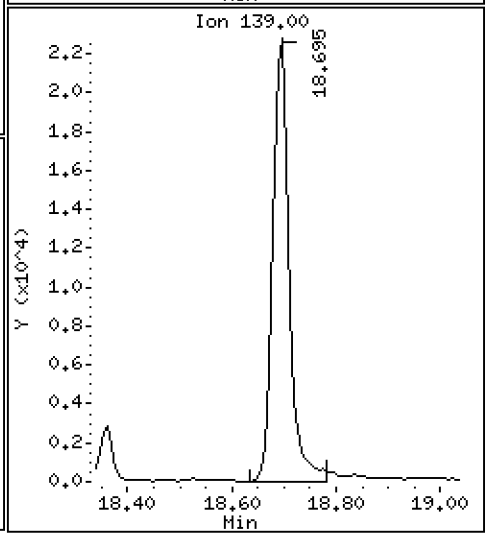


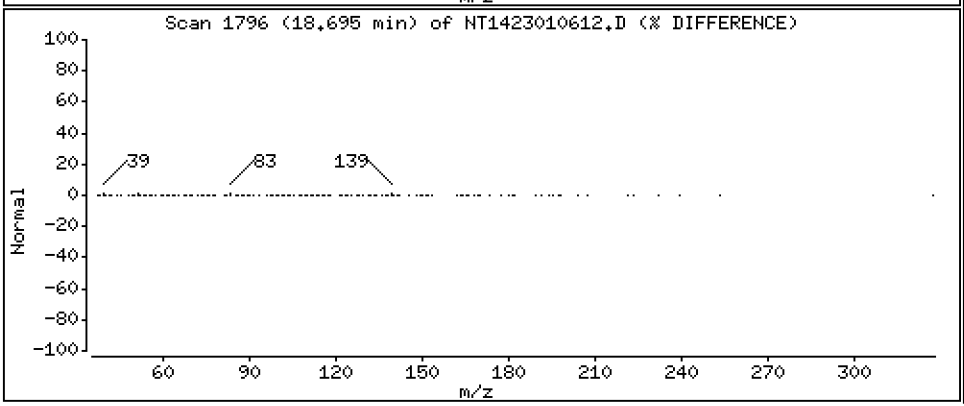












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

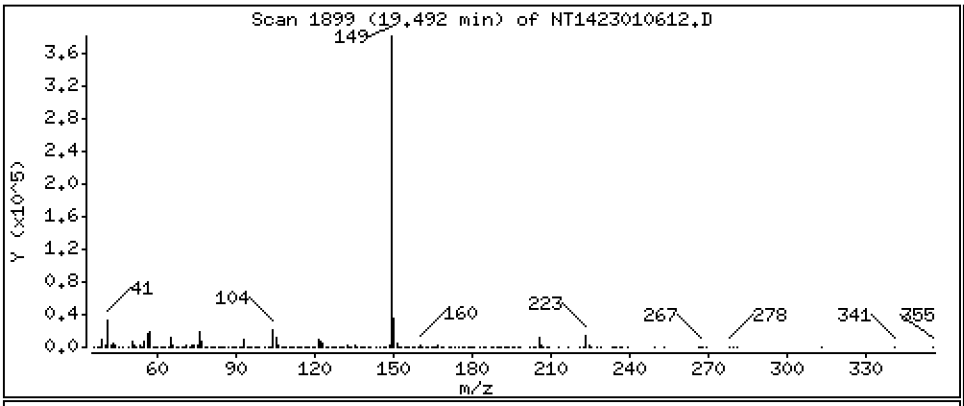
Operator: VTS

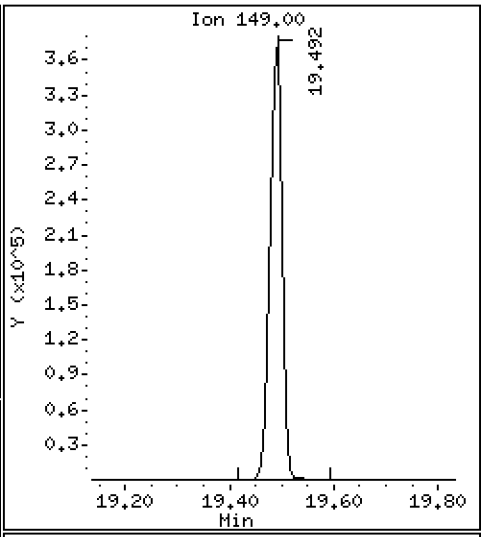
Column phase: ZB-5msi

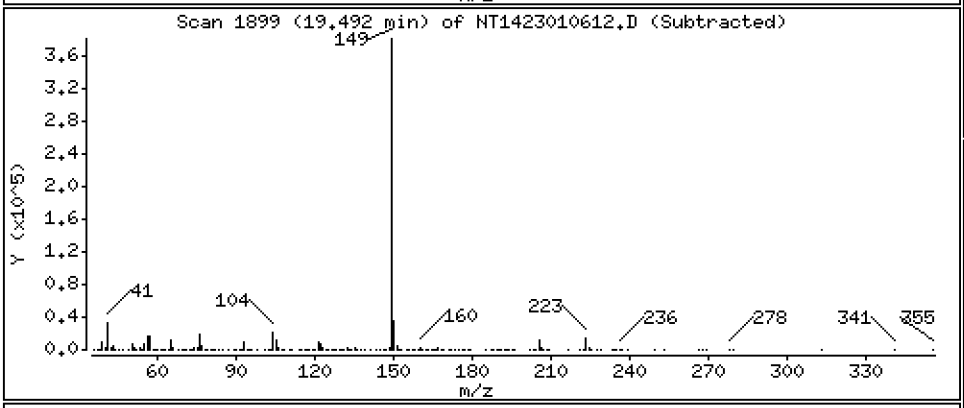
Column diameter: 0.25

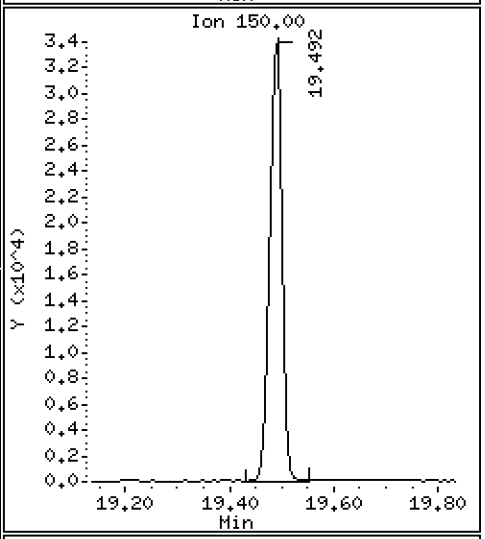
63 Di-n-butylphthalate

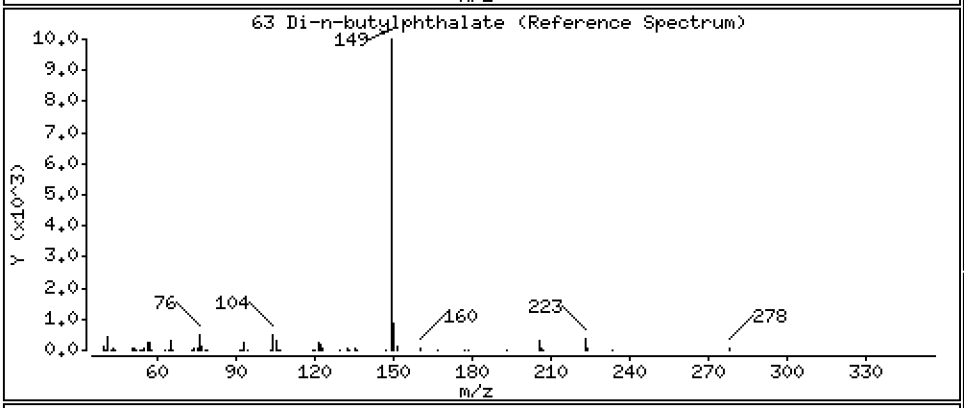
Concentration: 4.875 ug/mL

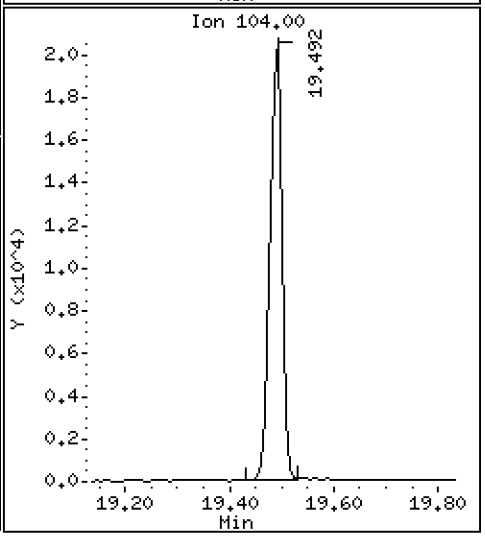


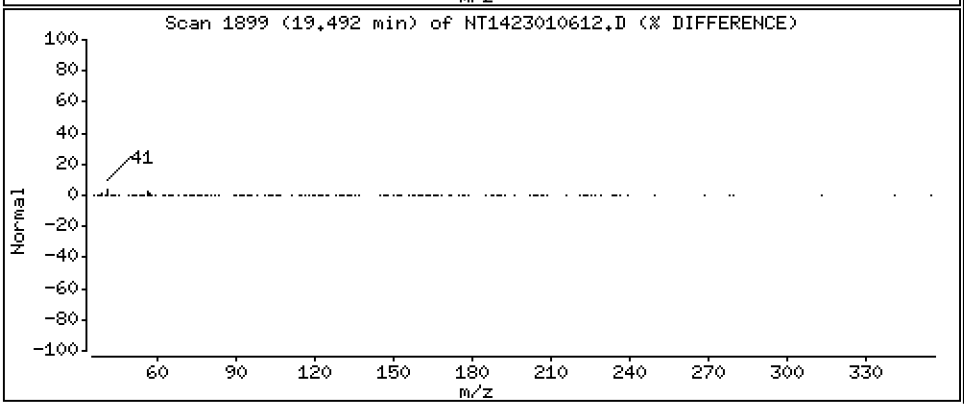












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

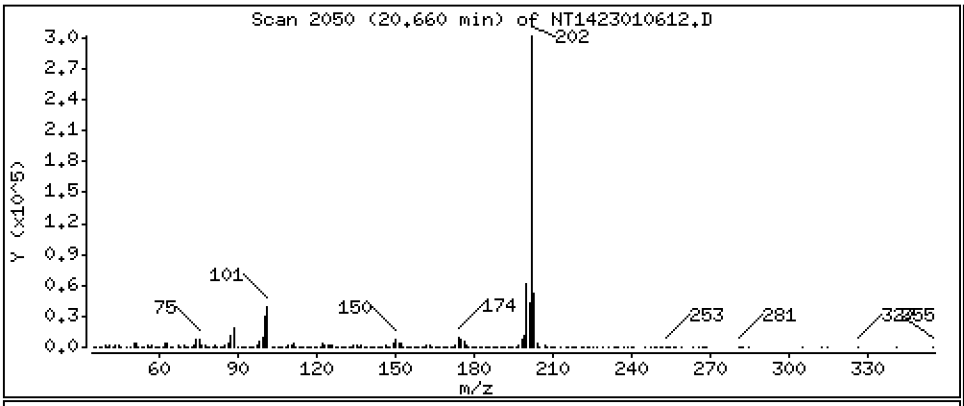
Operator: VTS

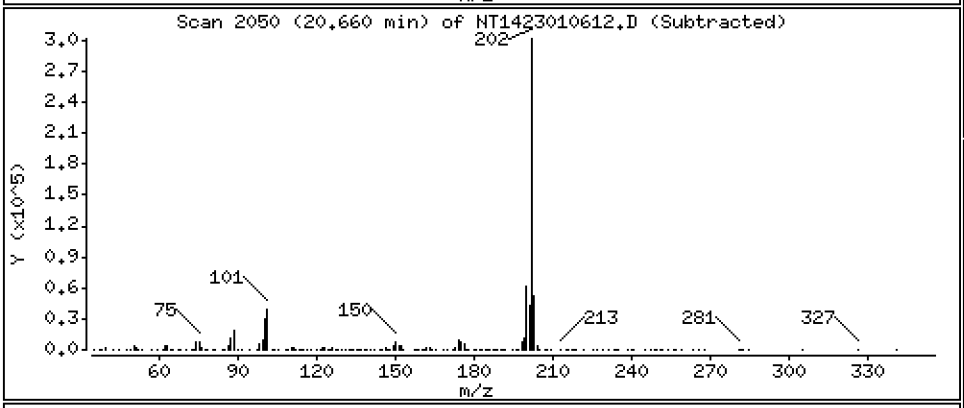
Column phase: ZB-5msi

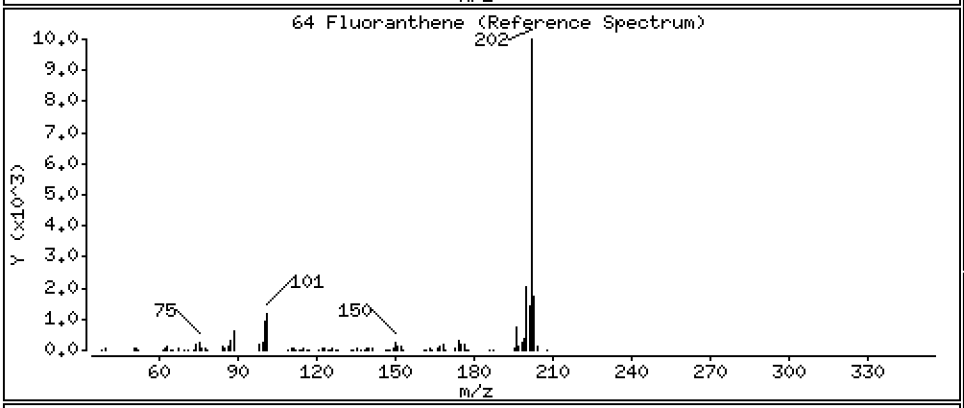
Column diameter: 0.25

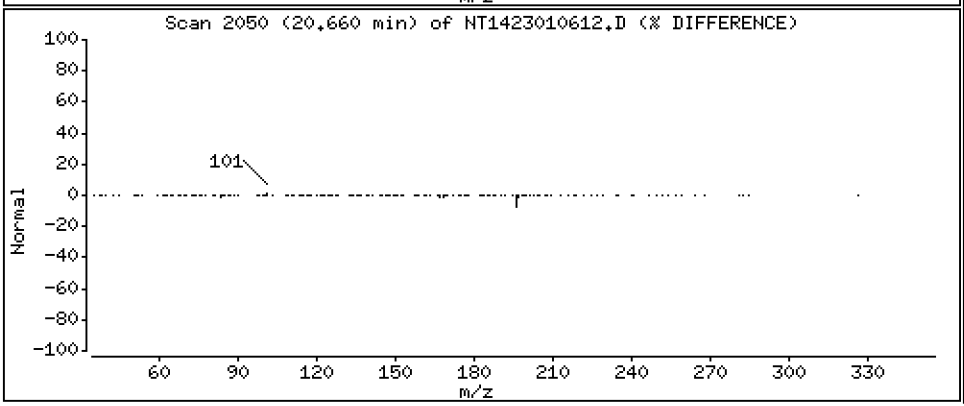
64 Fluoranthene

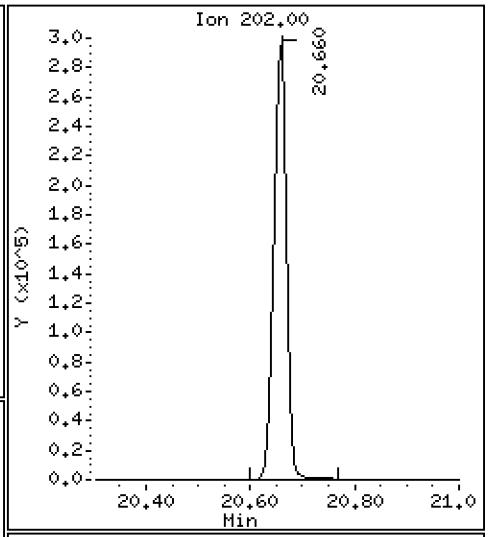
Concentration: 4.548 ug/mL

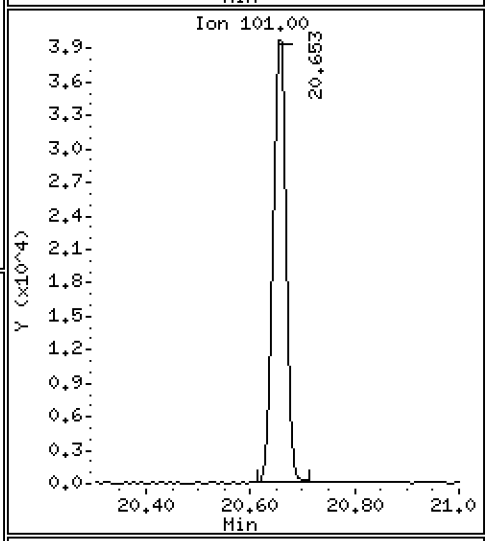


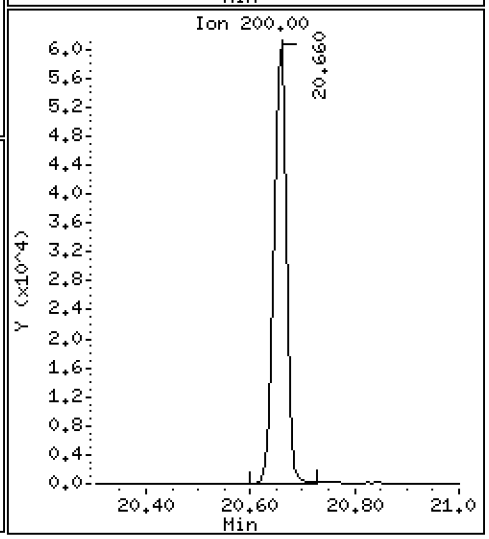












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

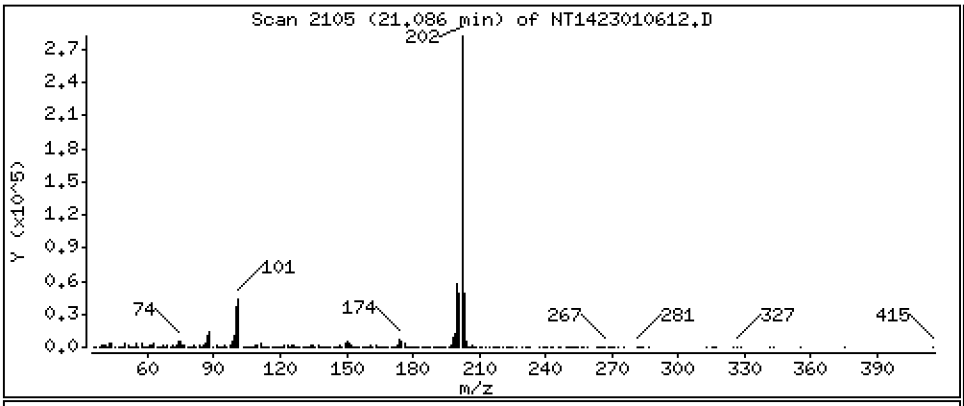
Operator: VTS

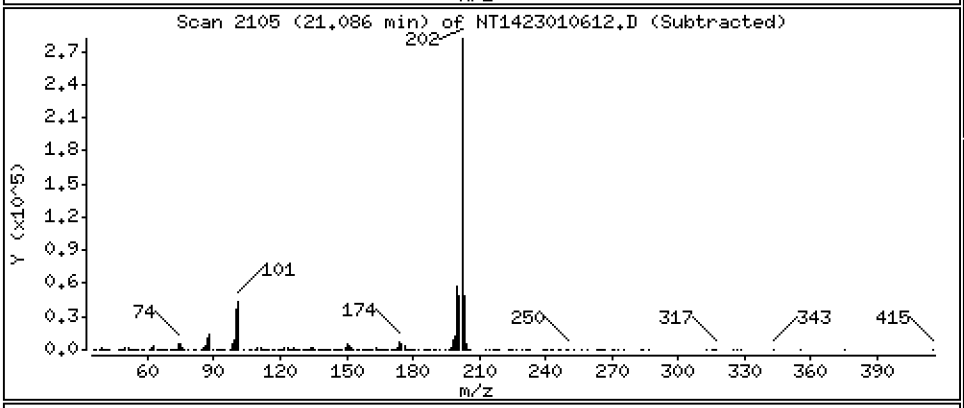
Column phase: ZB-5msi

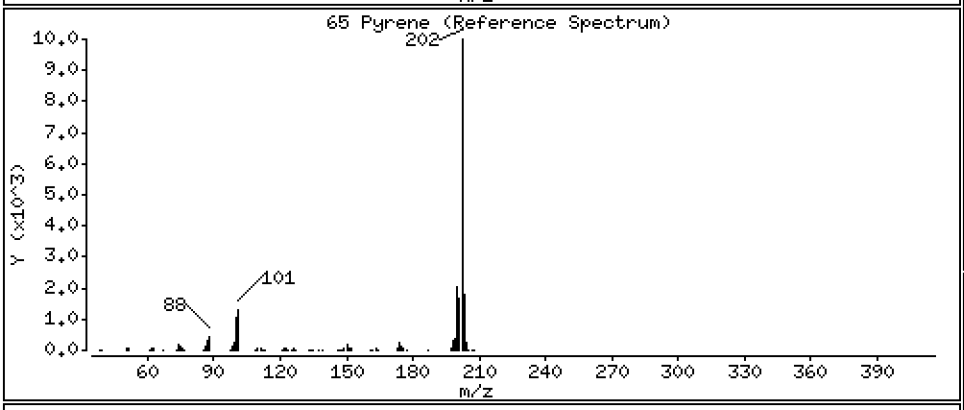
Column diameter: 0.25

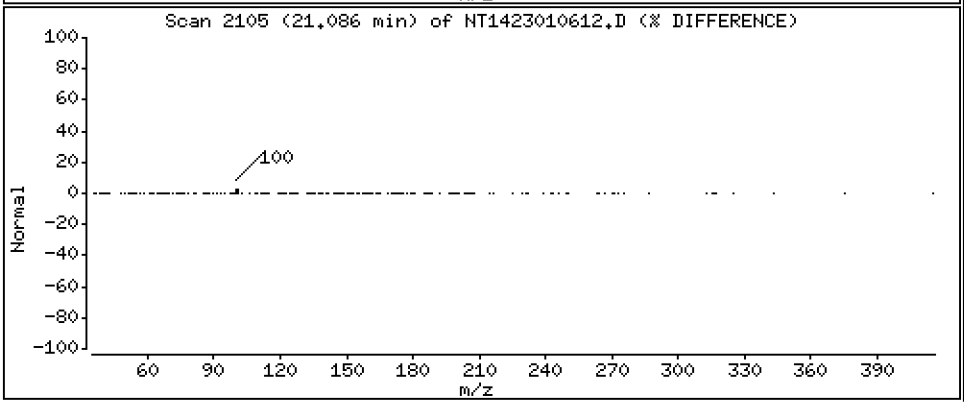
65 Pyrene

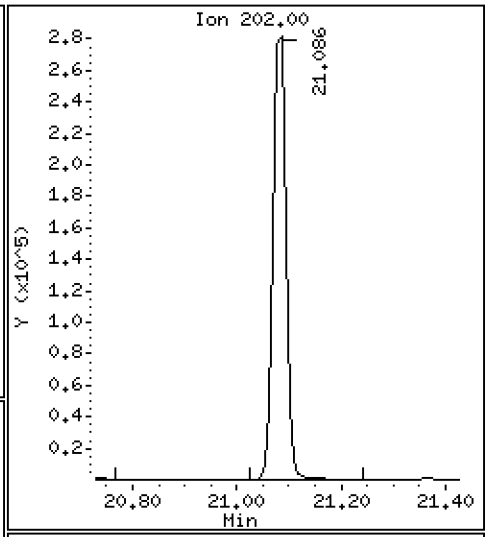
Concentration: 4.158 ug/mL

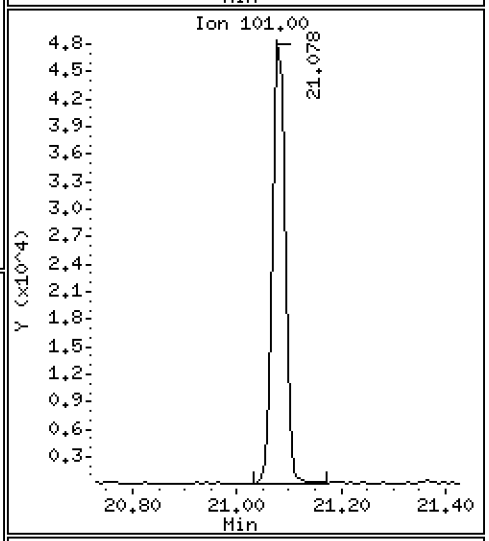


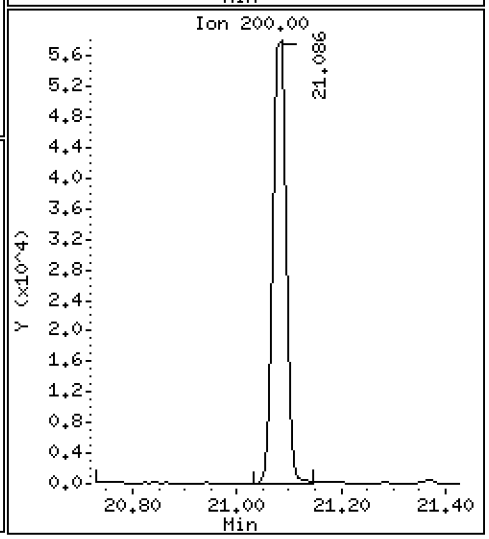












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

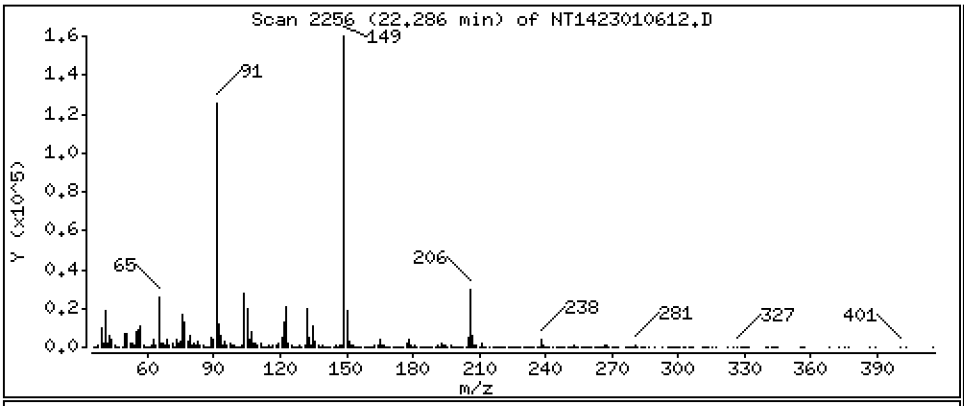
Operator: VTS

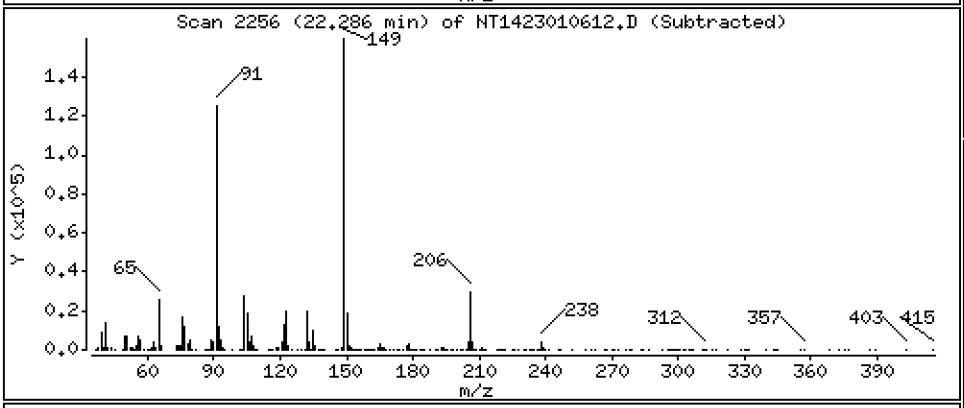
Column phase: ZB-5msi

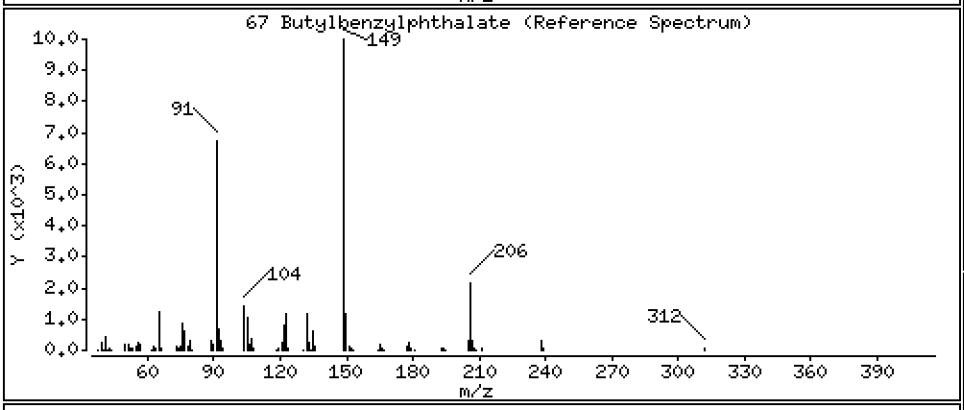
Column diameter: 0.25

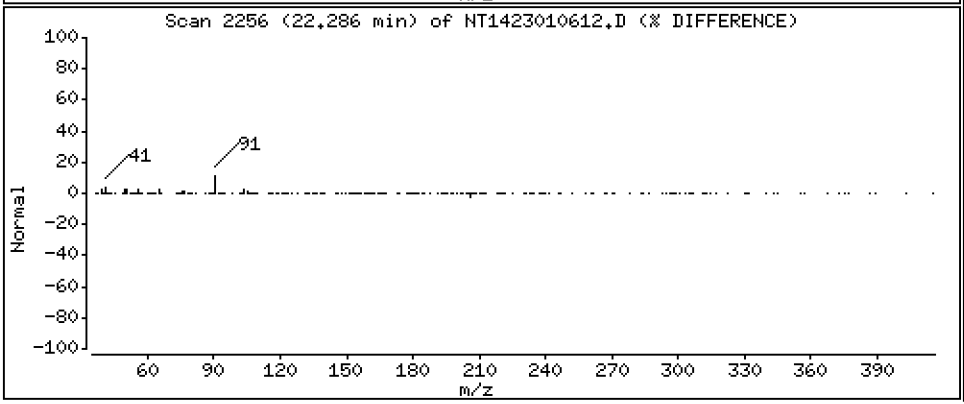
67 Butylbenzylphthalate

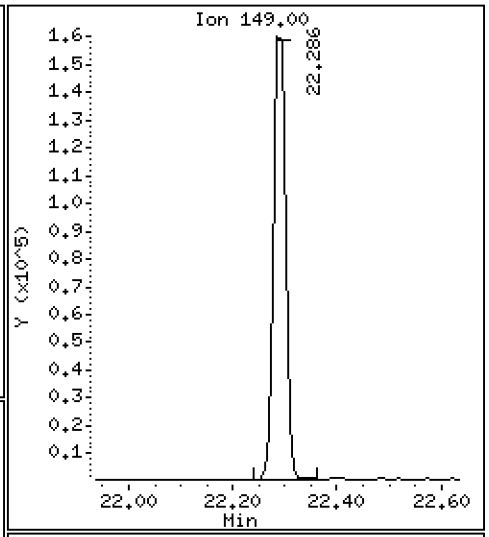
Concentration: 5.631 ug/mL

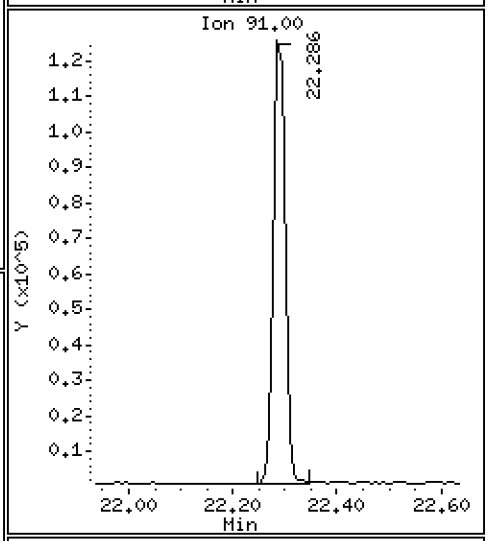


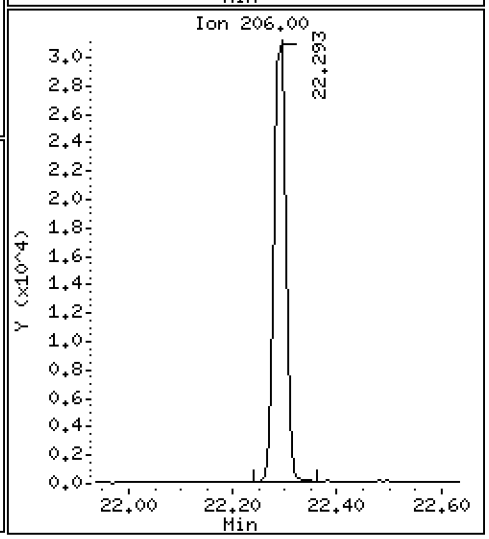












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

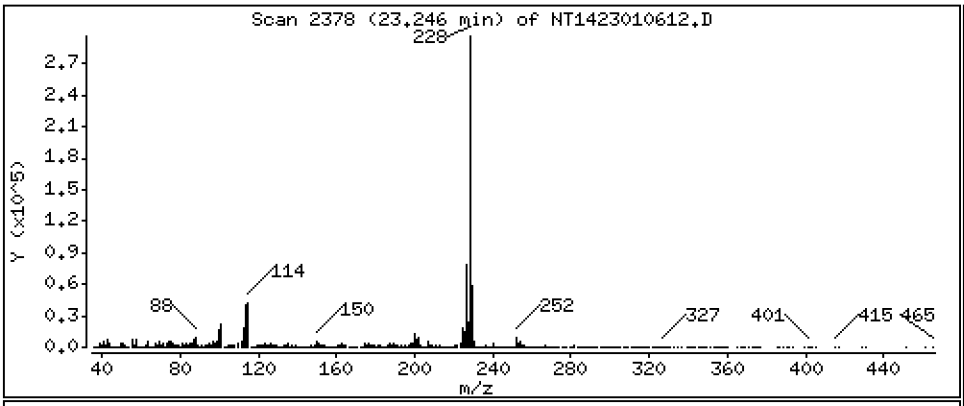
Operator: VTS

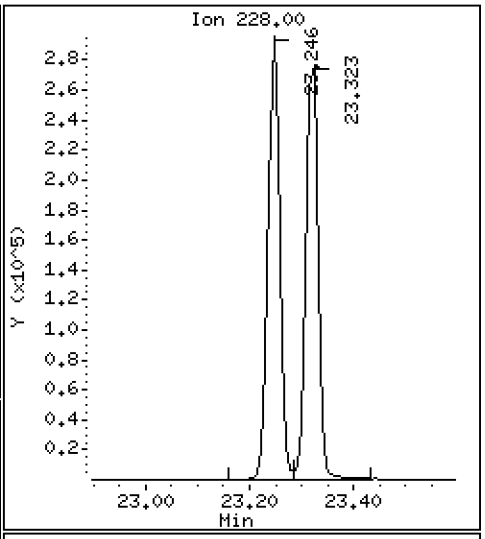
Column phase: ZB-5msi

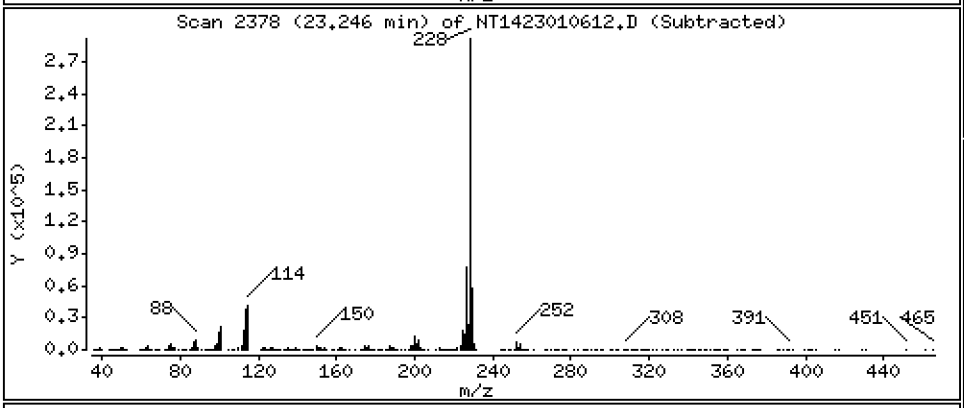
Column diameter: 0.25

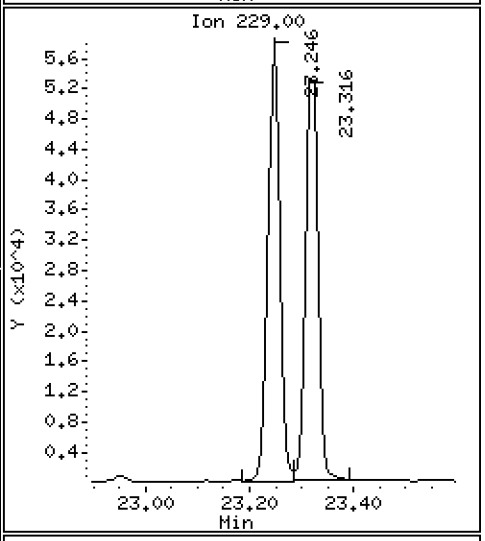
68 Benzo(a)anthracene

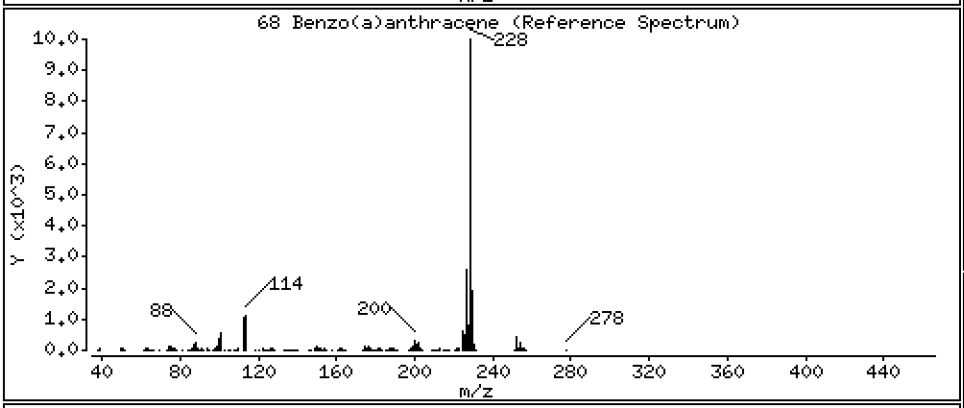
Concentration: 4.392 ug/mL

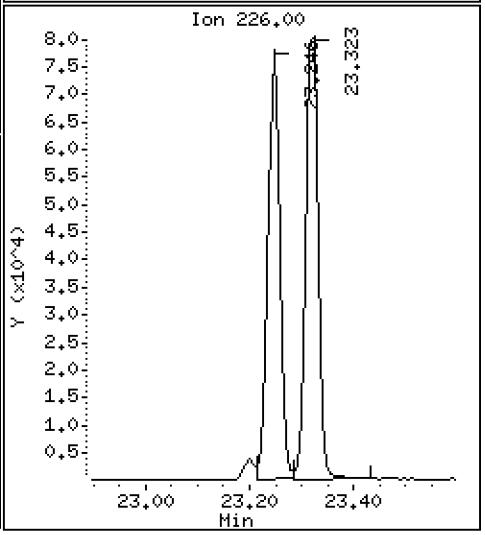


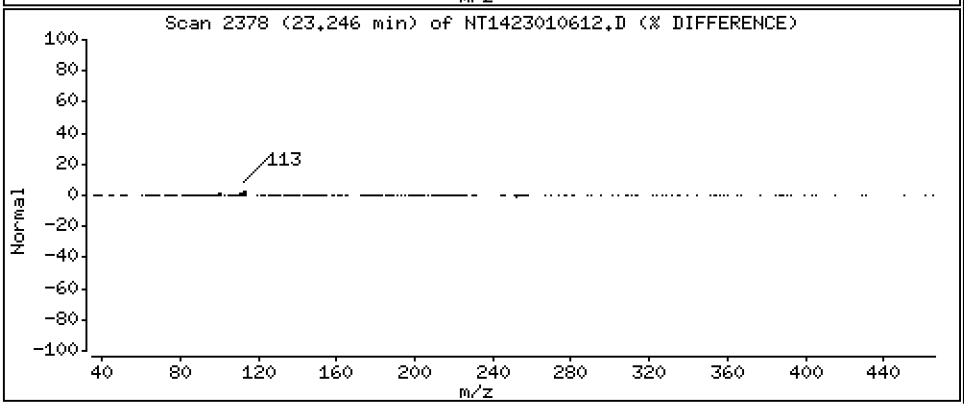












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

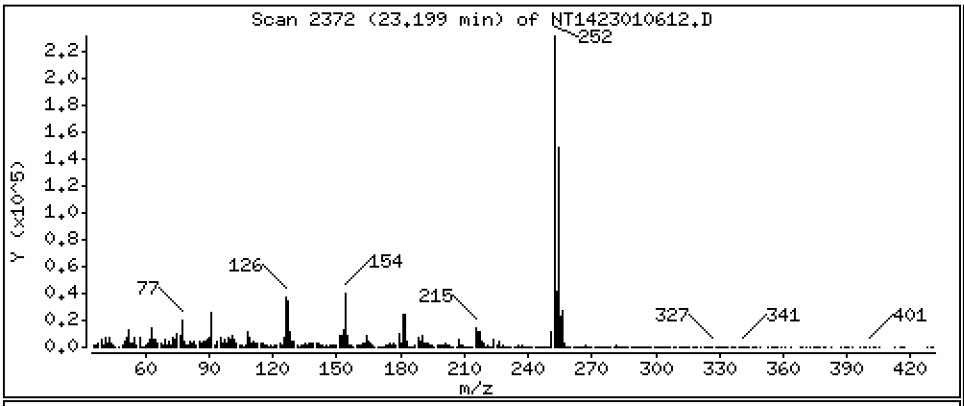
Operator: VTS

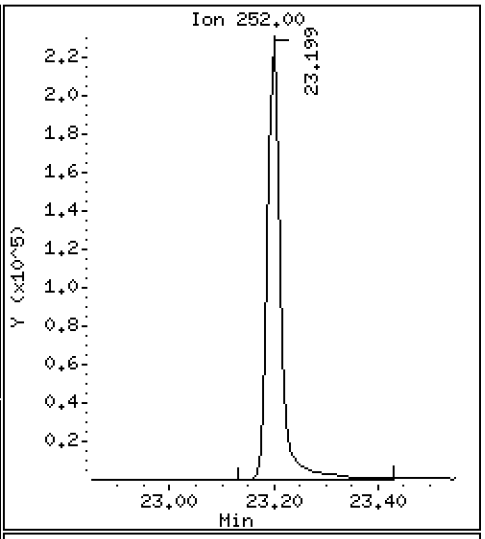
Column phase: ZB-5msi

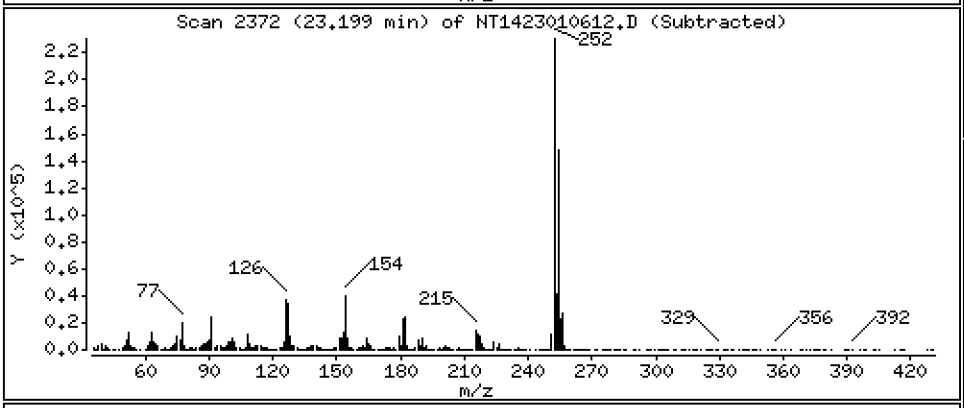
Column diameter: 0.25

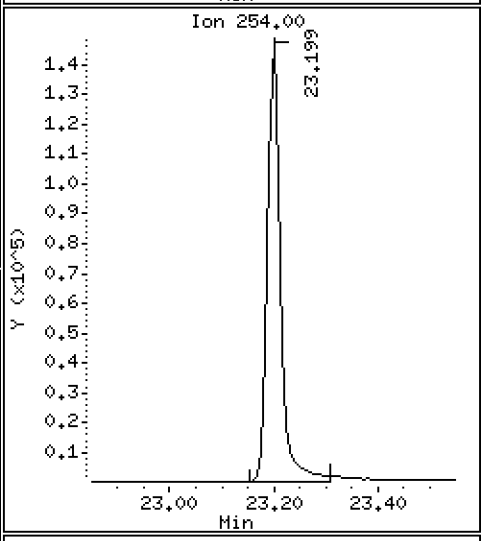
70 3,3'-Dichlorobenzidine

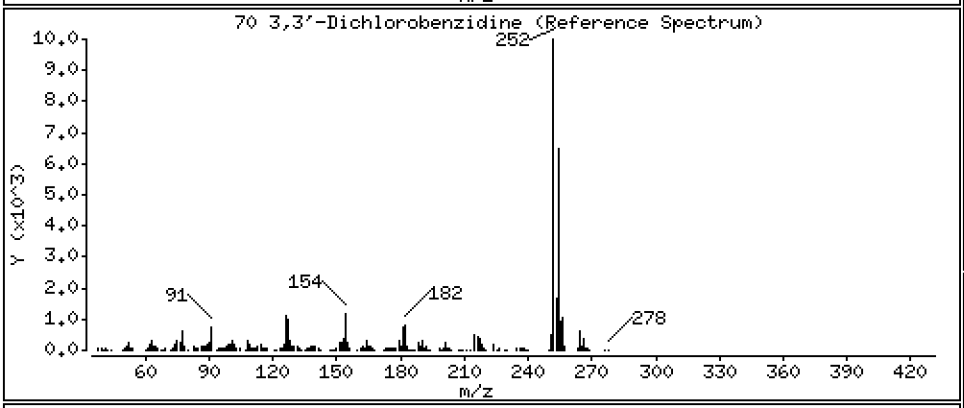
Concentration: 12.66 ug/mL

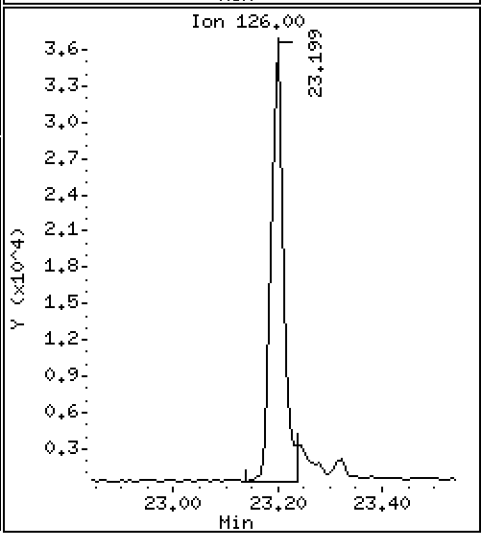


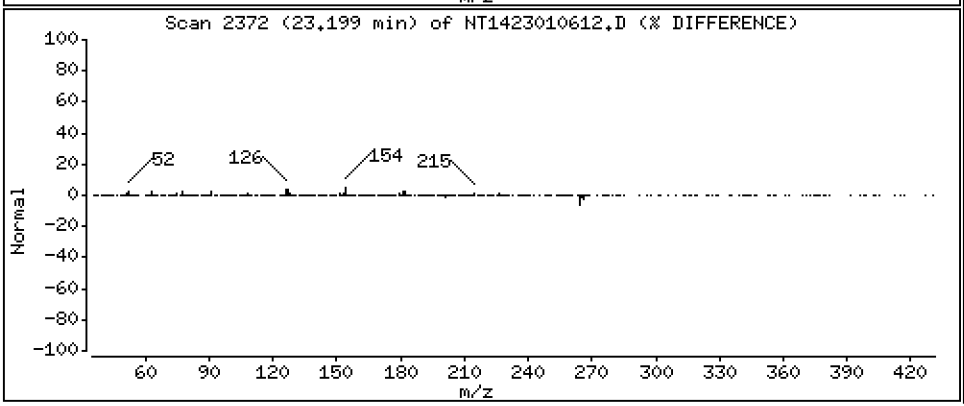












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

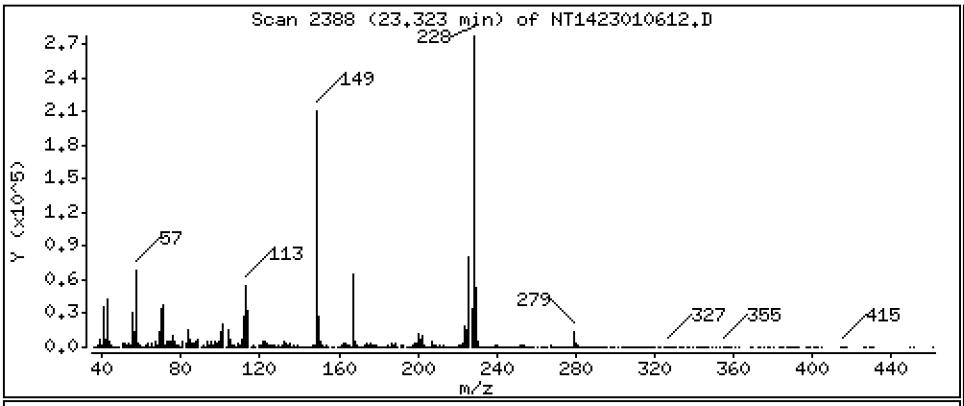
Operator: VTS

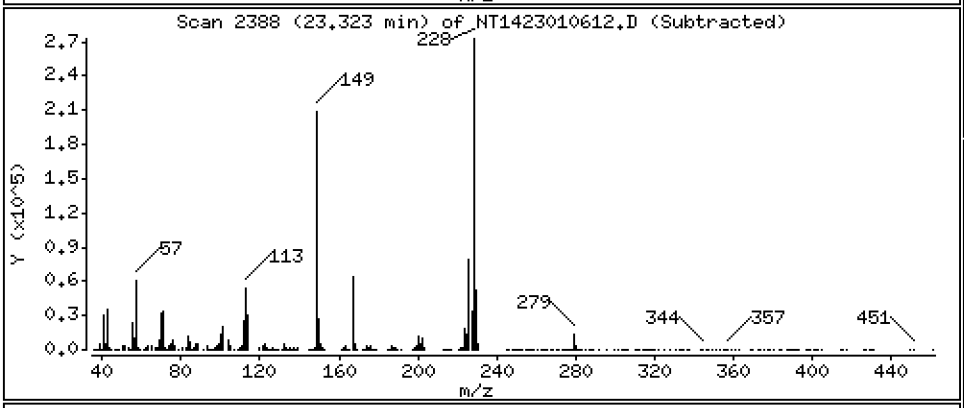
Column phase: ZB-5msi

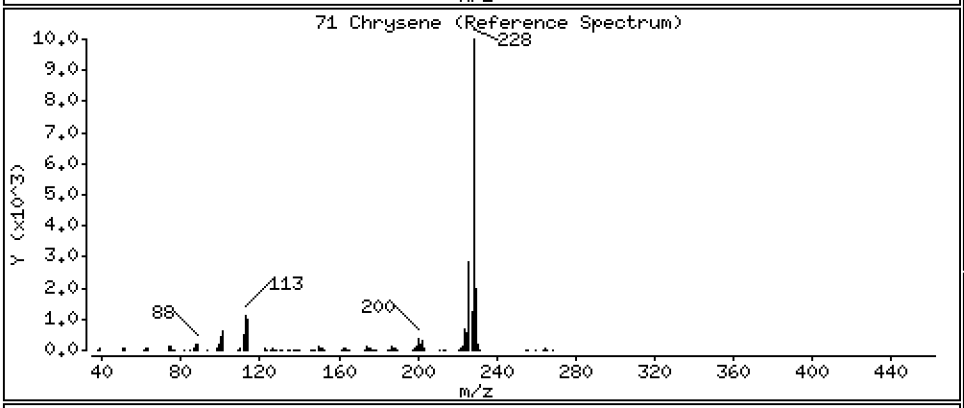
Column diameter: 0.25

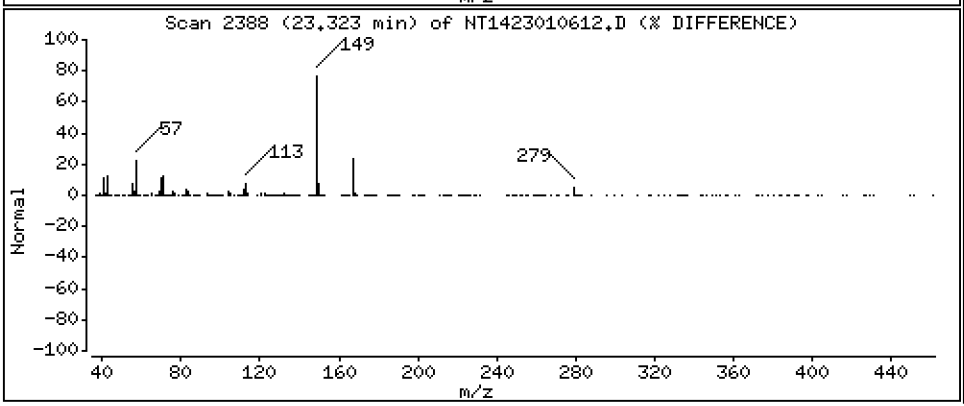
71 Chrysene

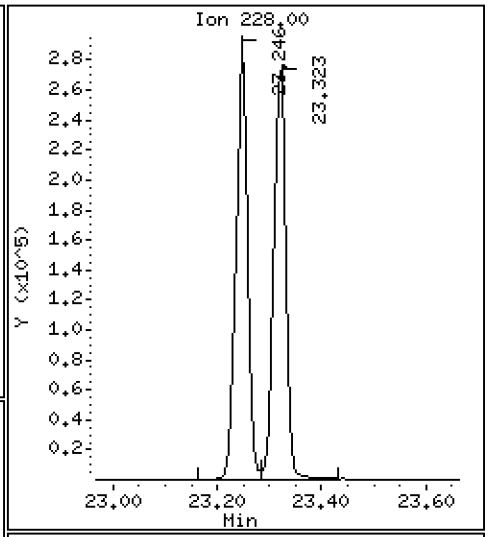
Concentration: 4.496 ug/mL

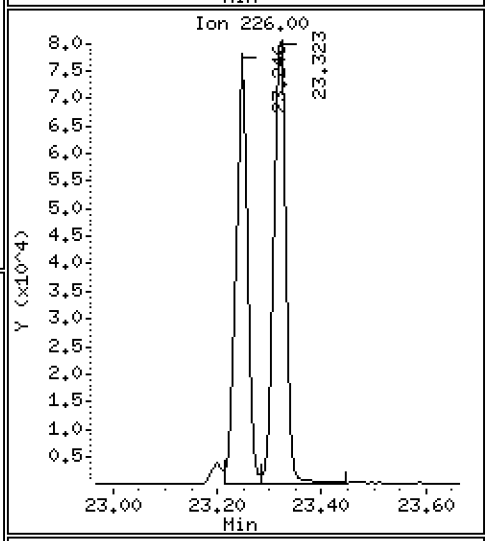


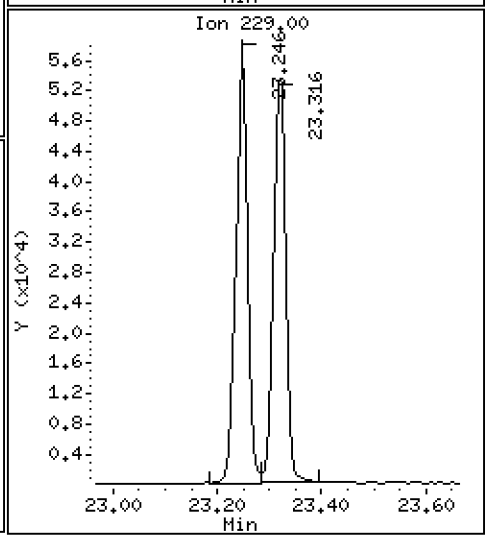












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

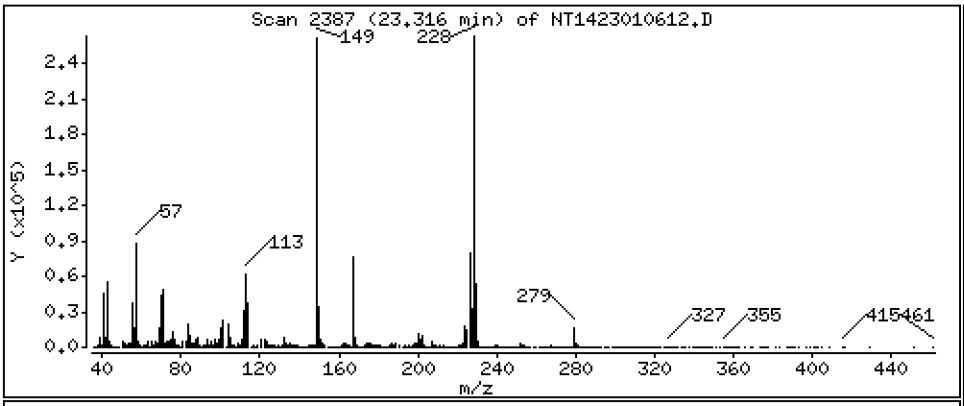
Operator: VTS

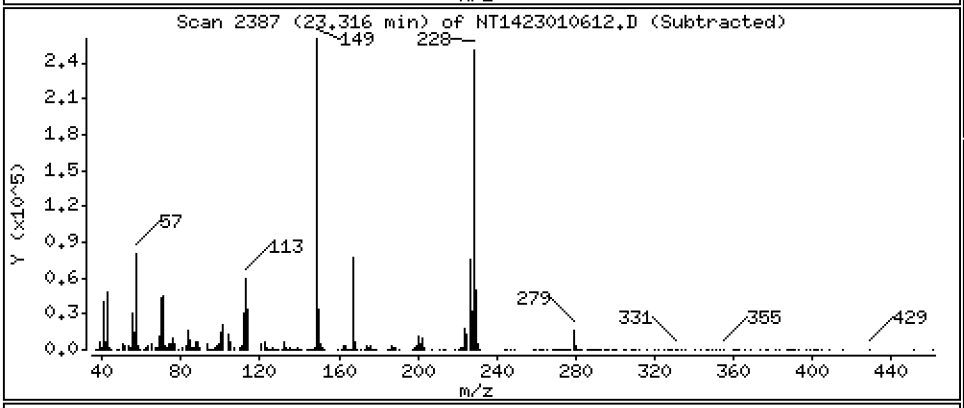
Column phase: ZB-5msi

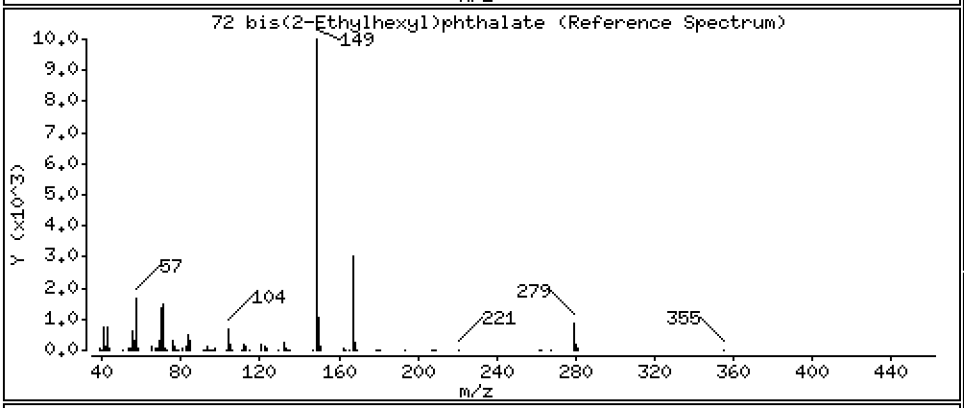
Column diameter: 0.25

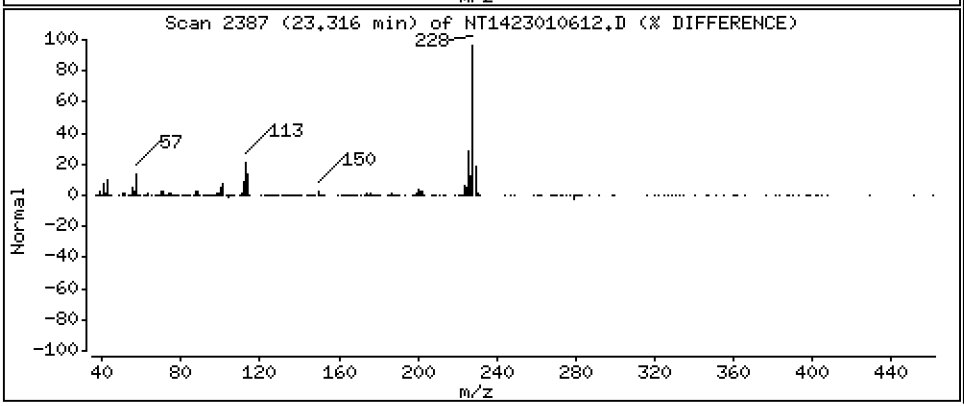
72 bis(2-Ethylhexyl)phthalate

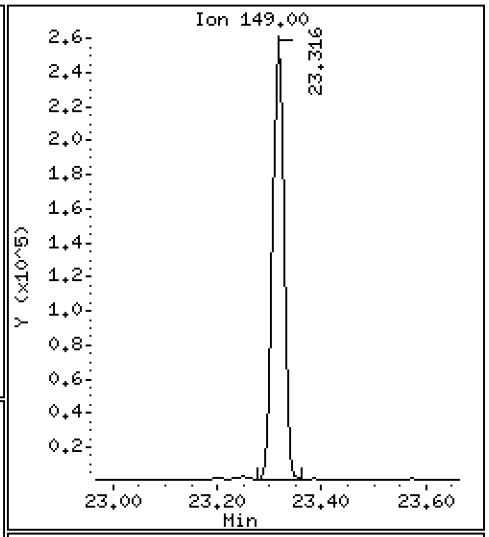
Concentration: 5.024 ug/mL

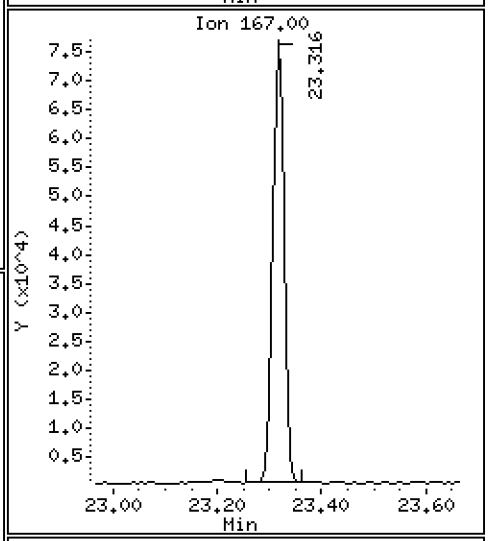


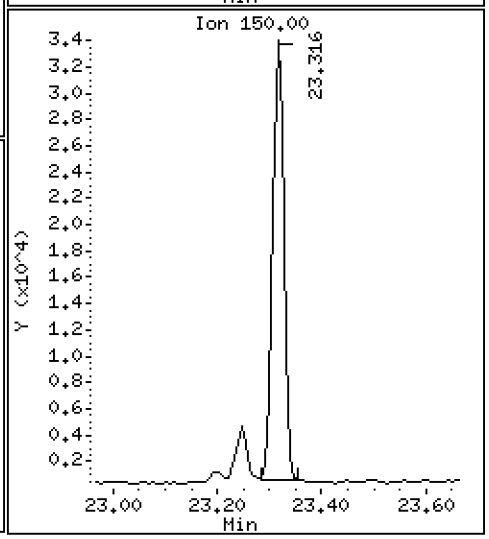












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

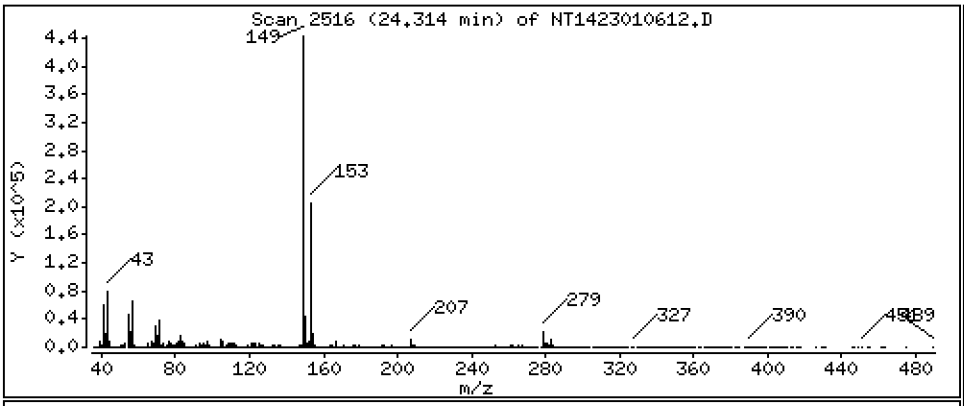
Operator: VTS

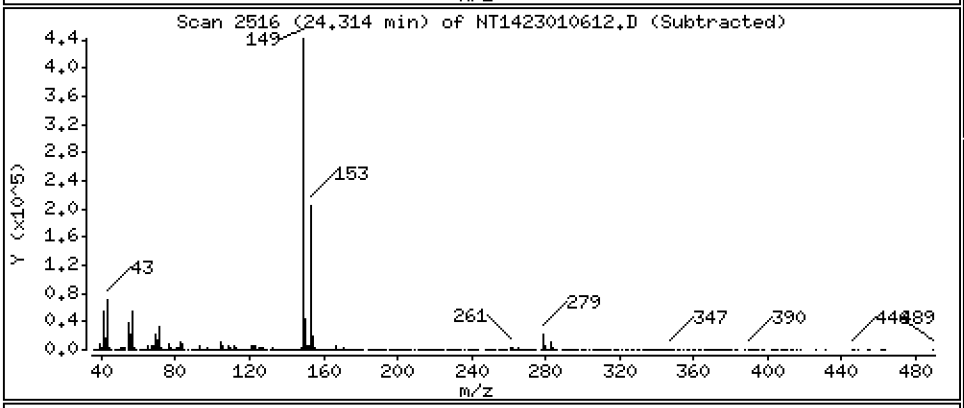
Column phase: ZB-5msi

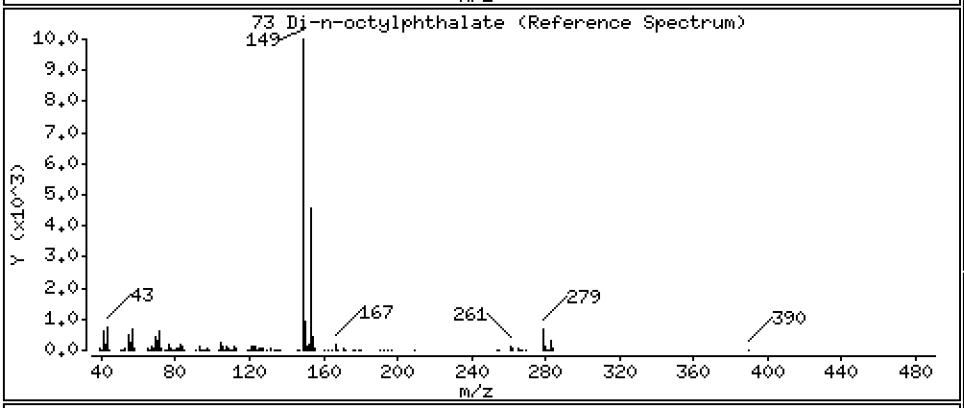
Column diameter: 0.25

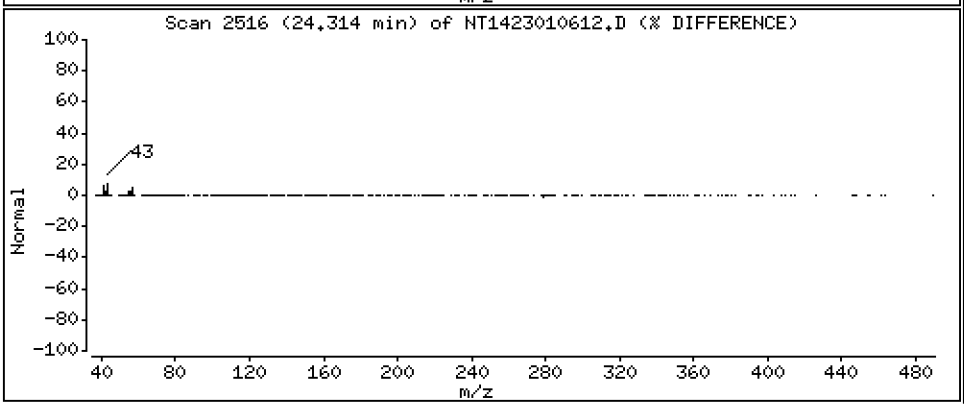
73 Di-n-octylphthalate

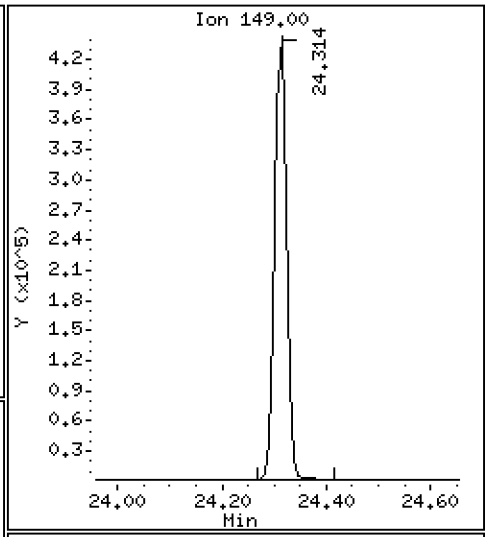
Concentration: 4.184 ug/mL

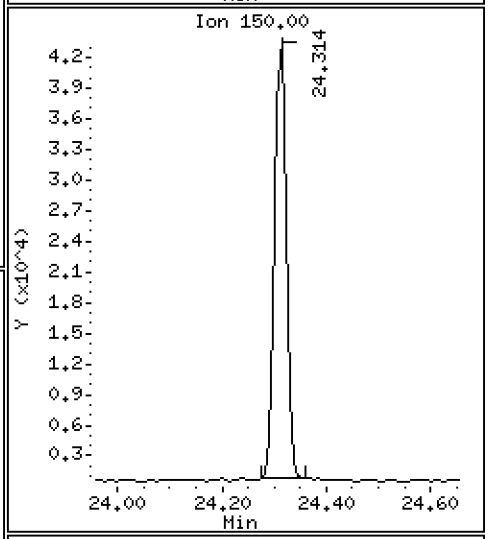


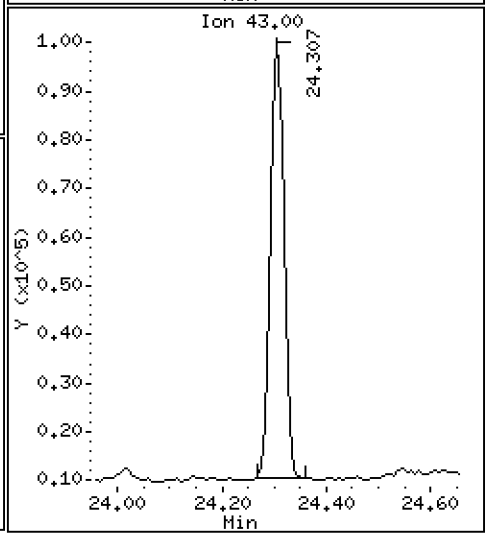












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

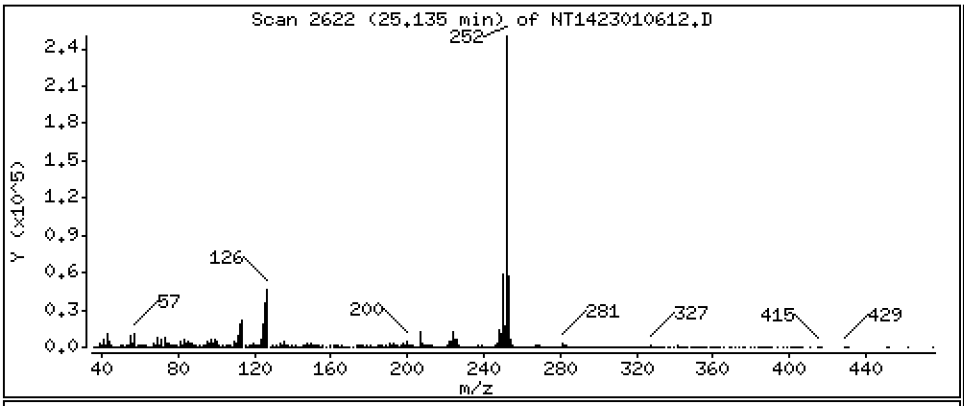
Operator: VTS

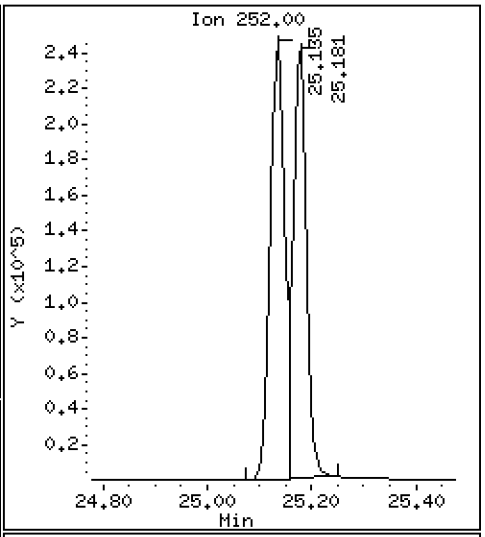
Column phase: ZB-5msi

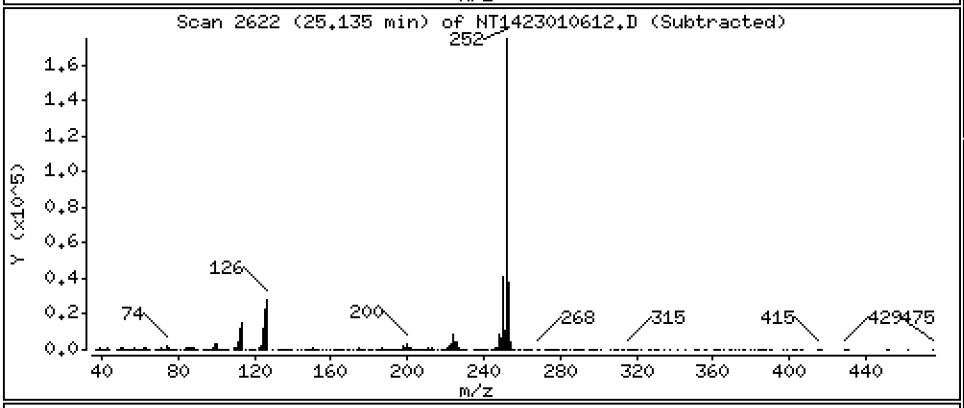
Column diameter: 0.25

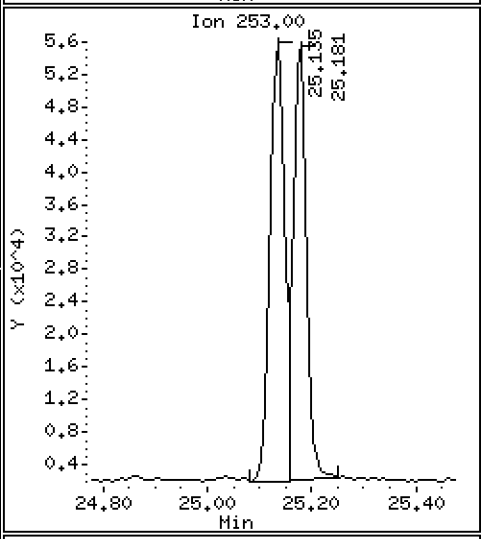
74 Benzo(b)fluoranthene

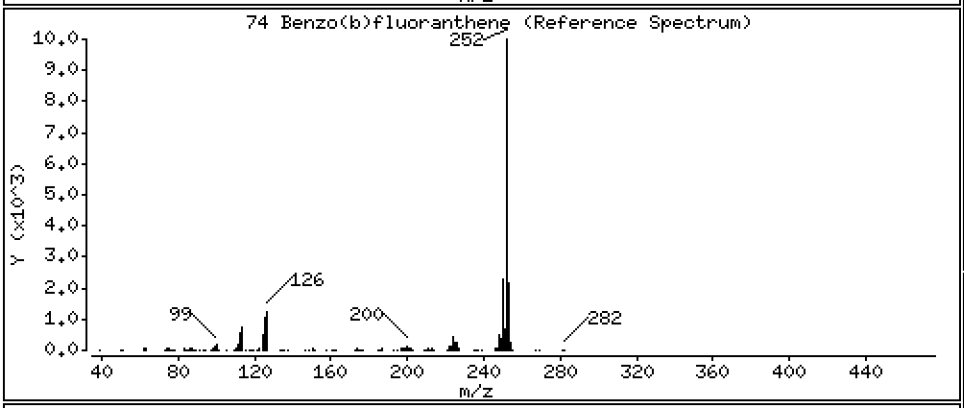
Concentration: 4.274 ug/mL

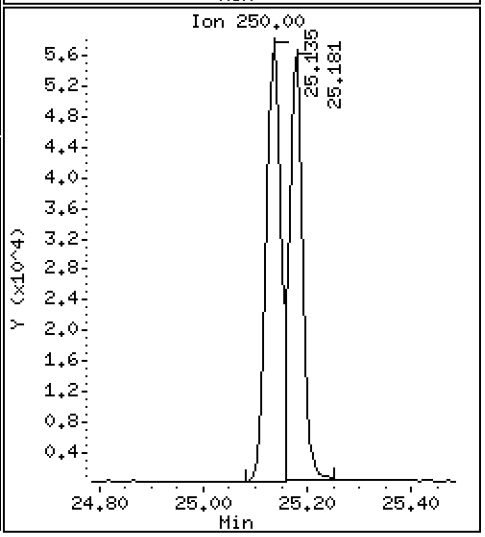


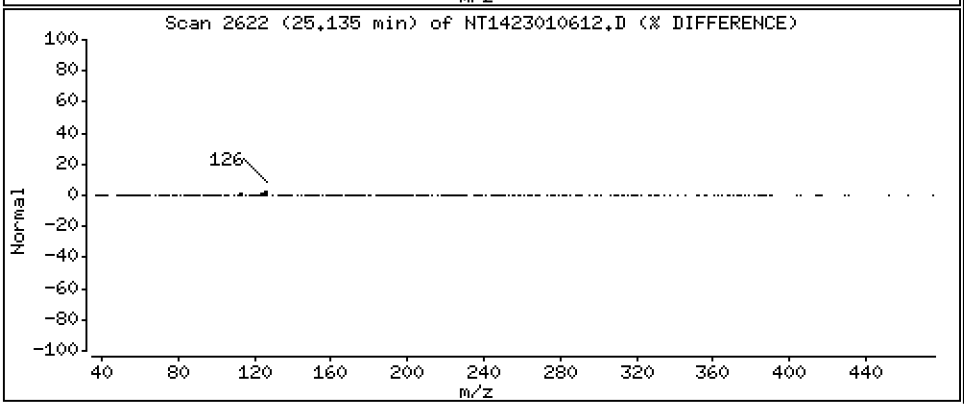












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D

Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

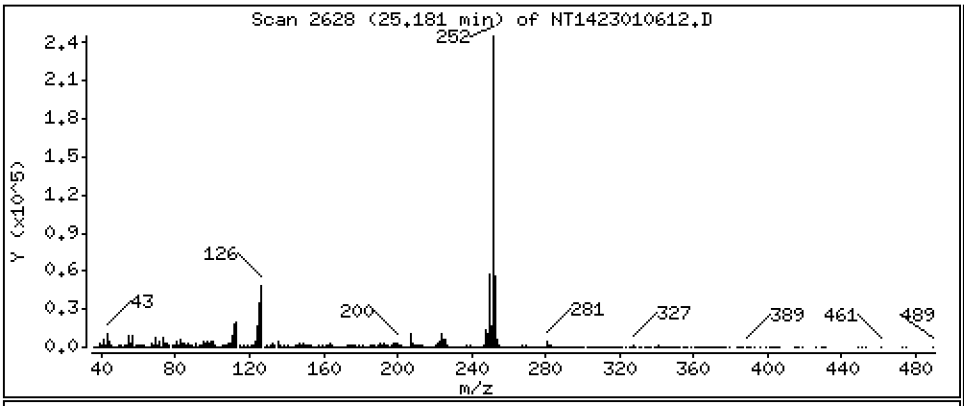
Operator: VTS

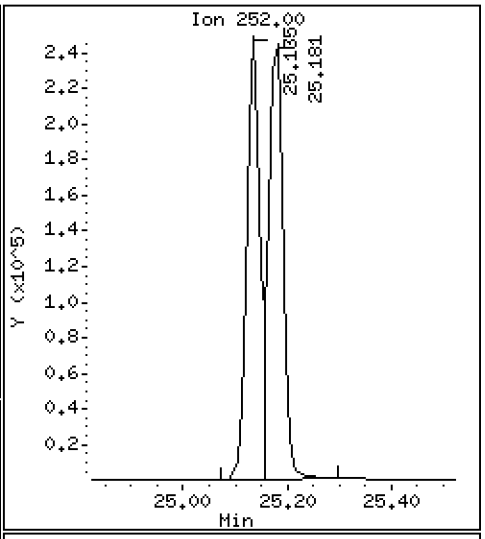
Column phase: ZB-5msi

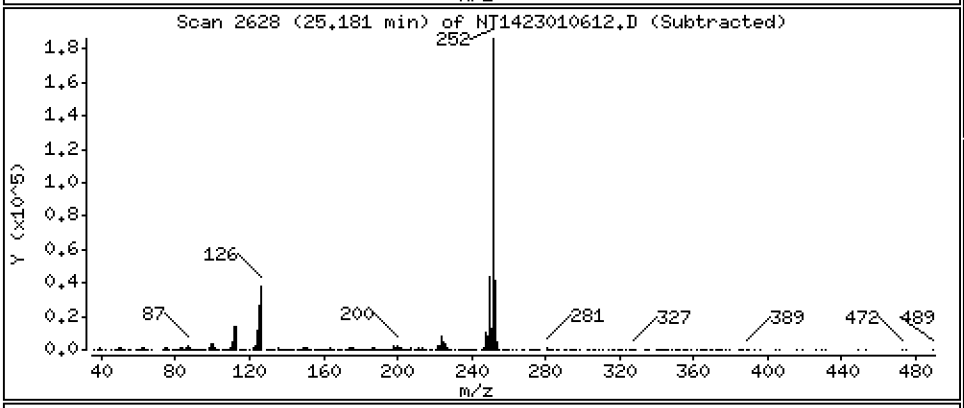
Column diameter: 0.25

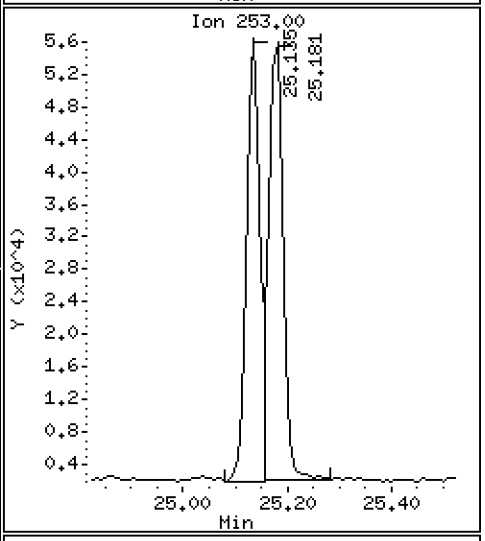
75 Benzo(k)fluoranthene

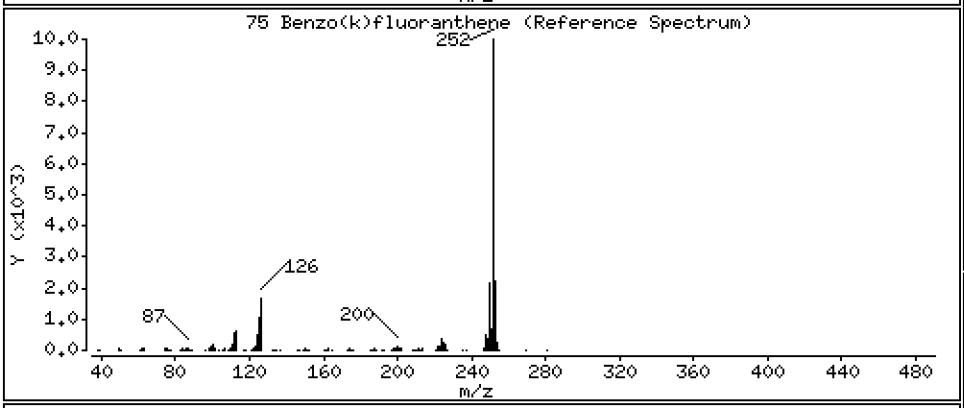
Concentration: 4.095 ug/mL

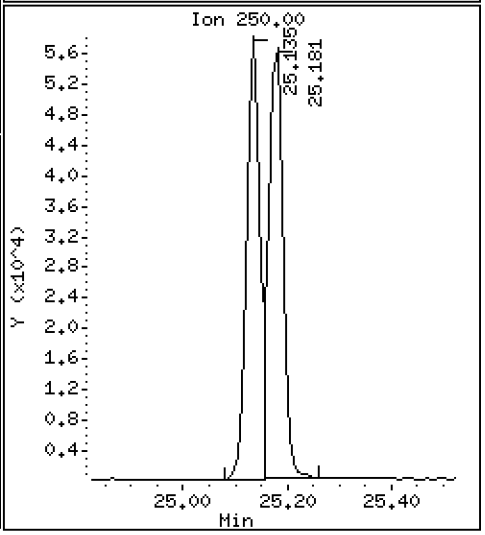


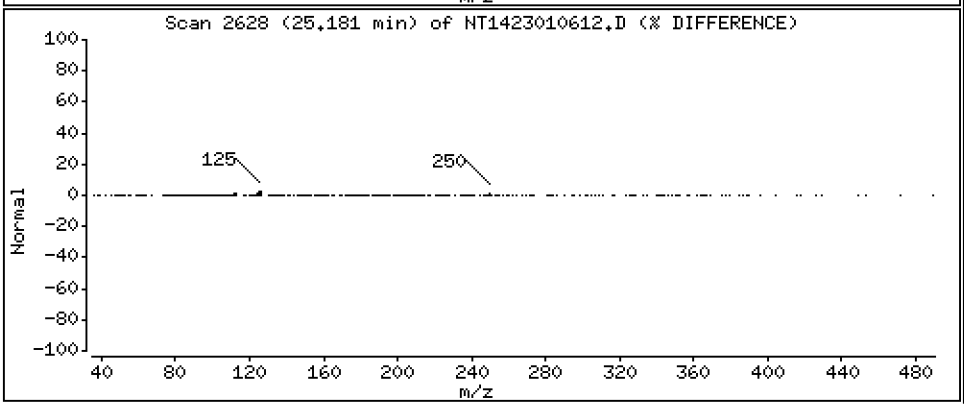












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

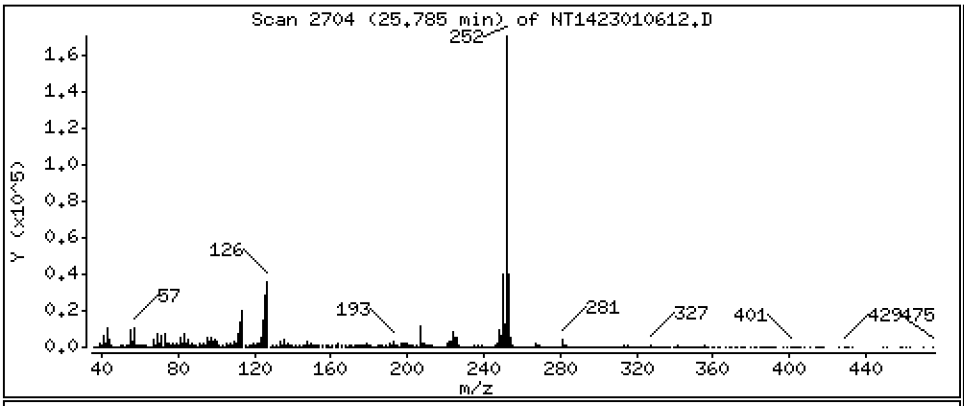
Operator: VTS

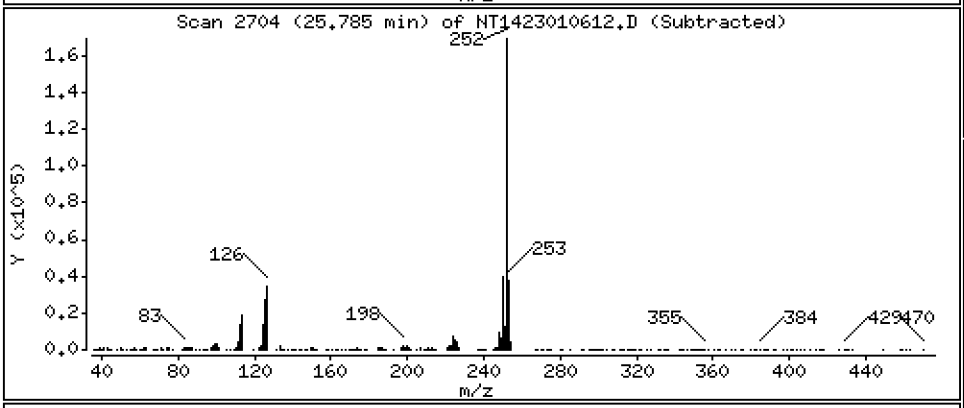
Column phase: ZB-5msi

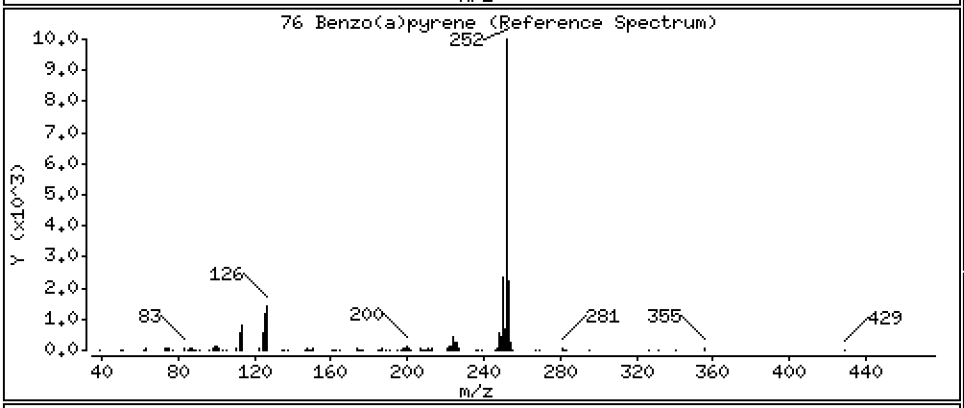
Column diameter: 0.25

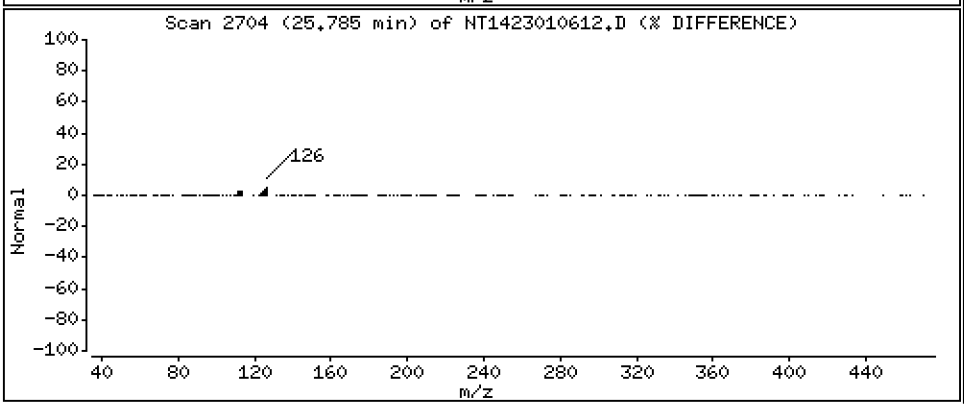
76 Benzo(a)pyrene

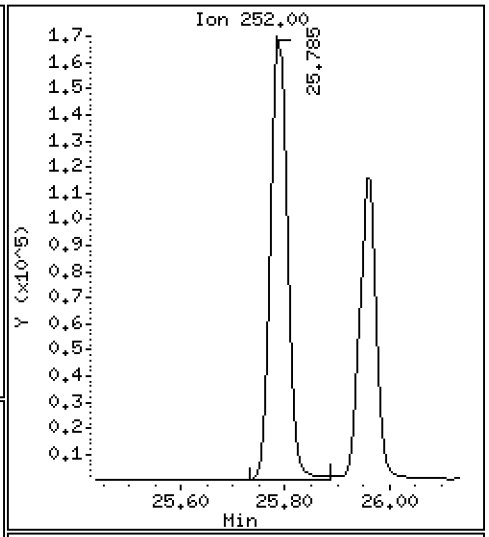
Concentration: 4.035 ug/mL

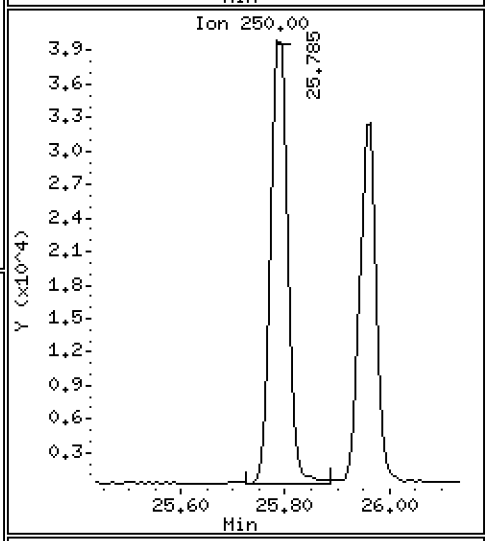


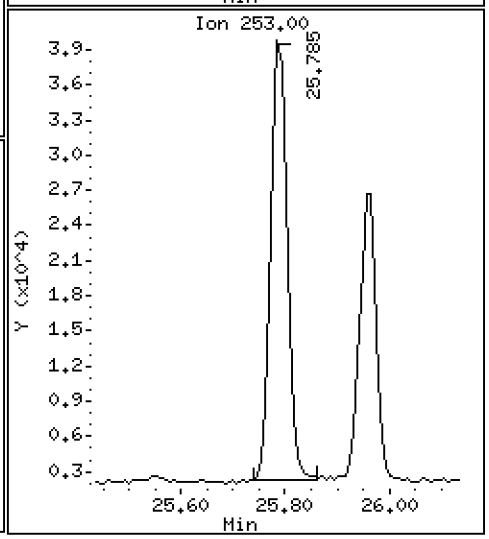












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

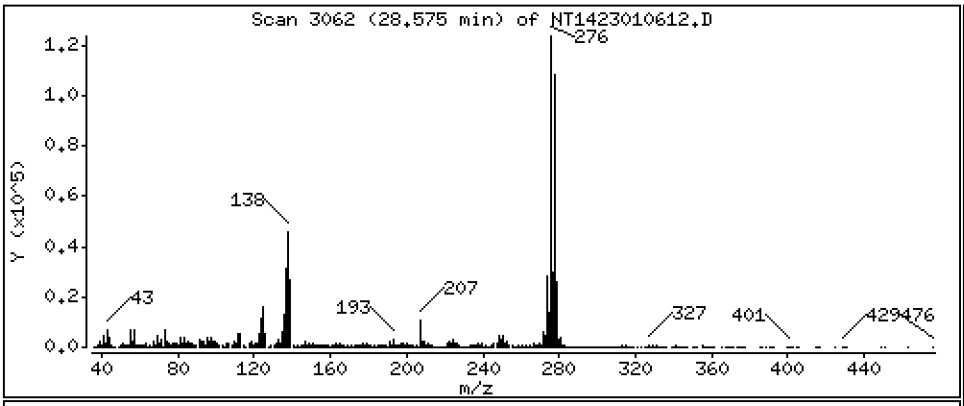
Operator: VTS

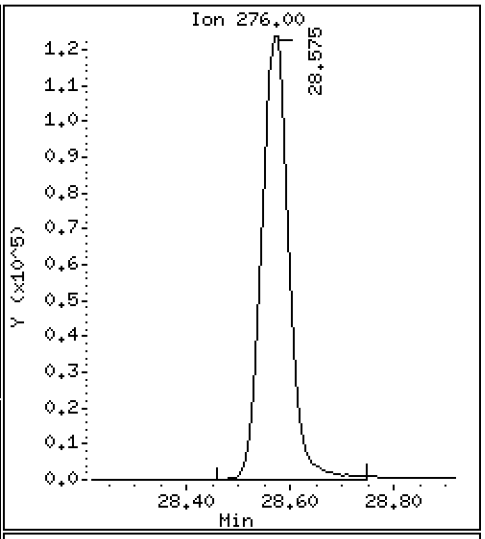
Column phase: ZB-5msi

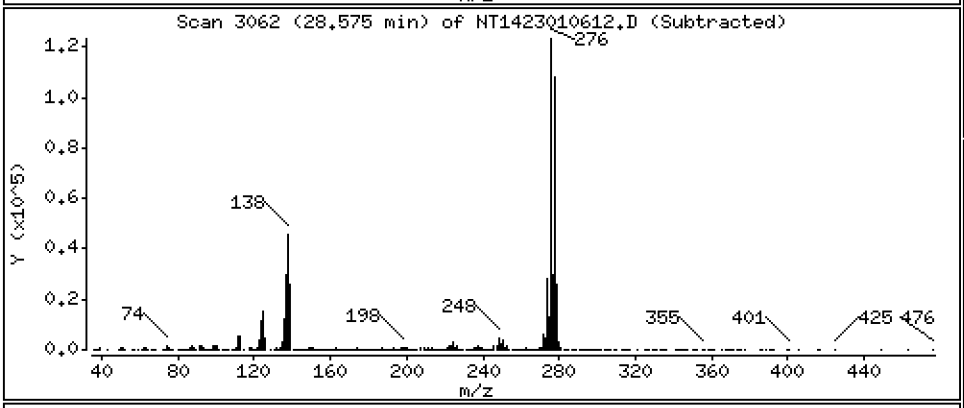
Column diameter: 0.25

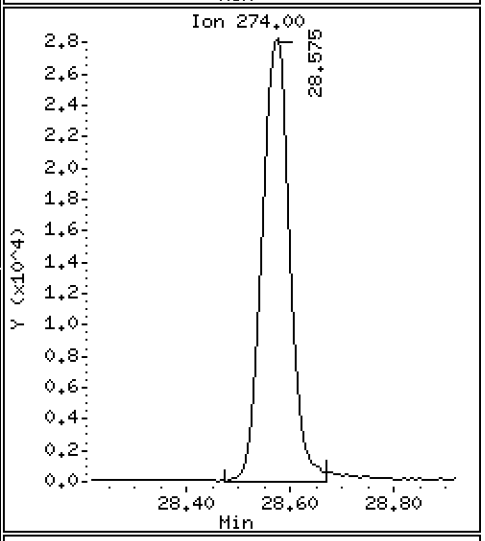
78 Indeno(1,2,3-cd)pyrene

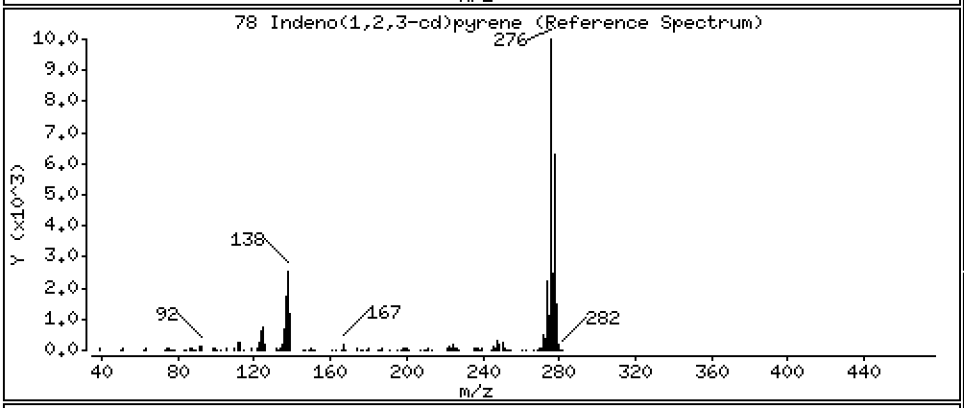
Concentration: 4.280 ug/mL

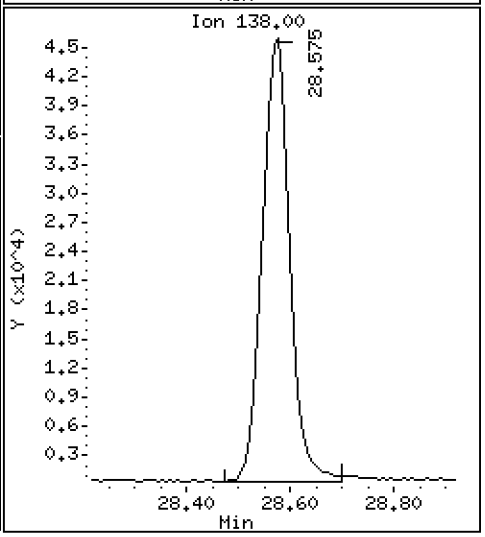


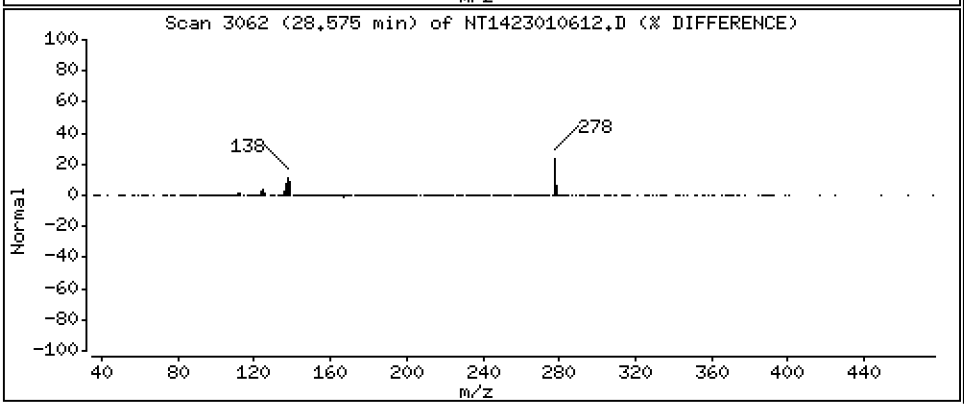












Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

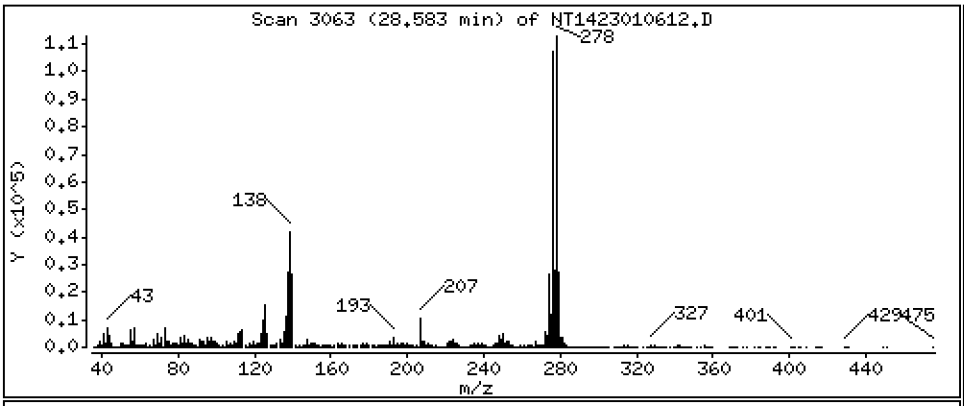
Operator: VTS

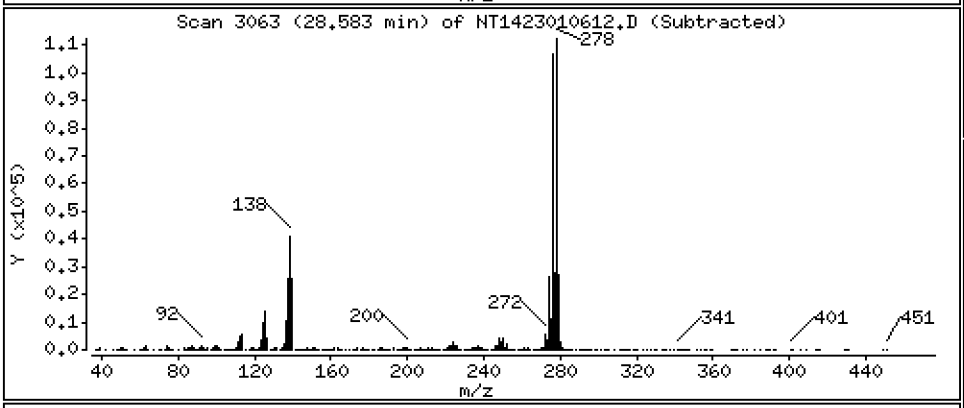
Column phase: ZB-5msi

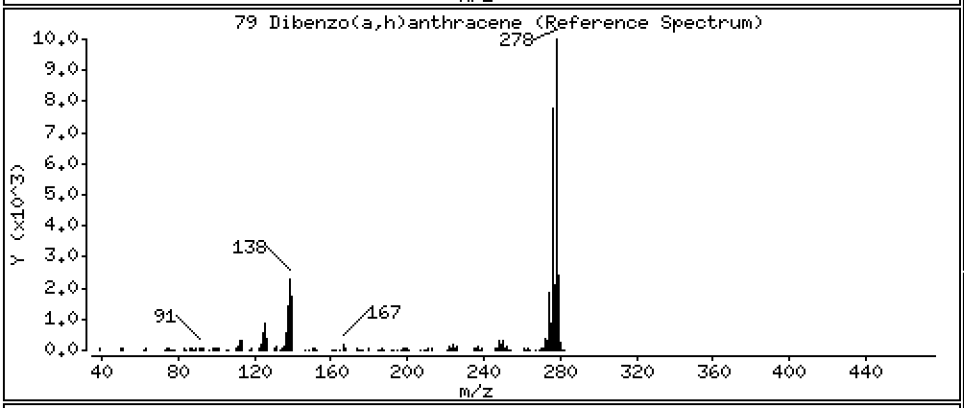
Column diameter: 0.25

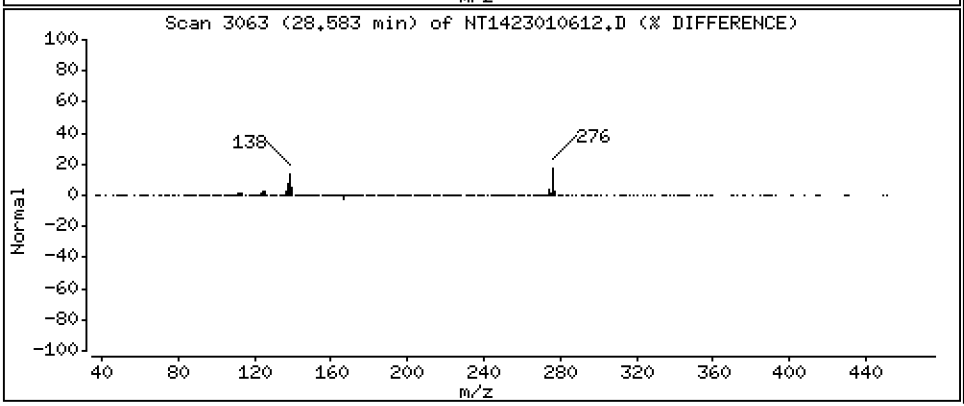
79 Dibenzo(a,h)anthracene

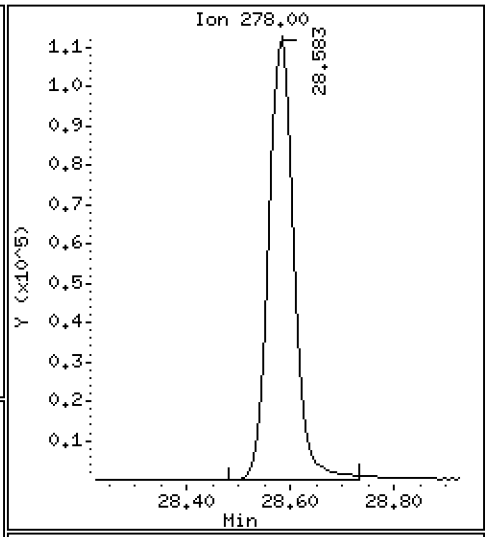
Concentration: 4.237 ug/mL

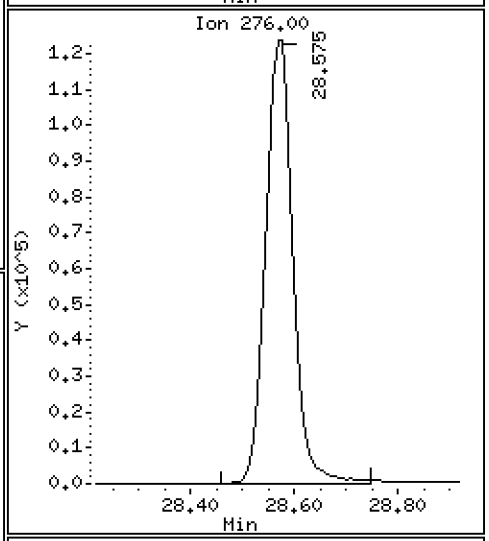


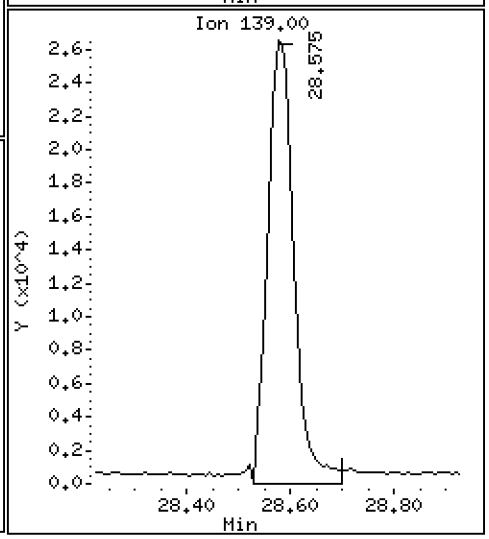












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

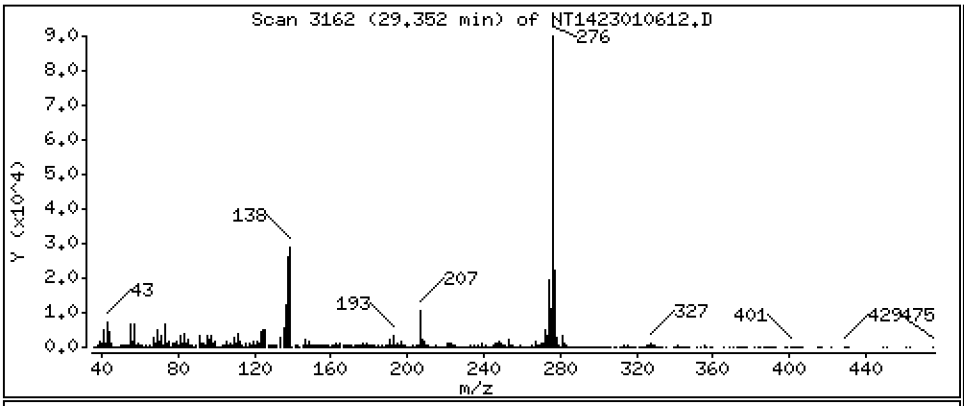
Operator: VTS

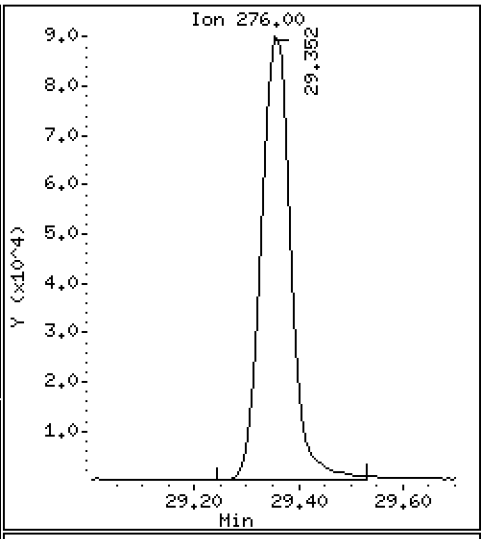
Column phase: ZB-5msi

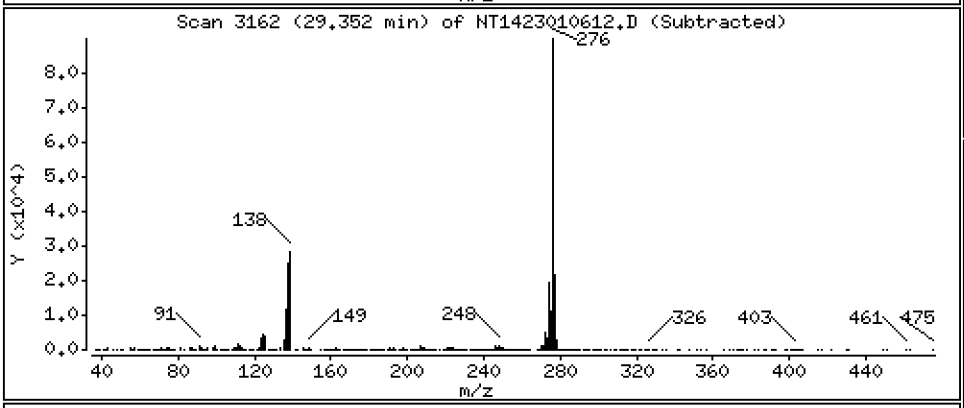
Column diameter: 0.25

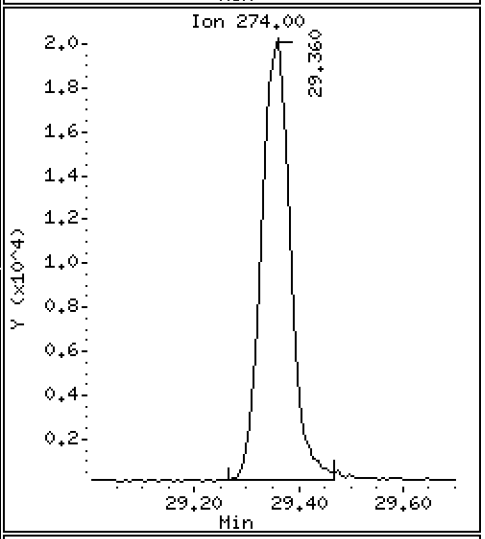
80 Benzo(g,h,i)perylene

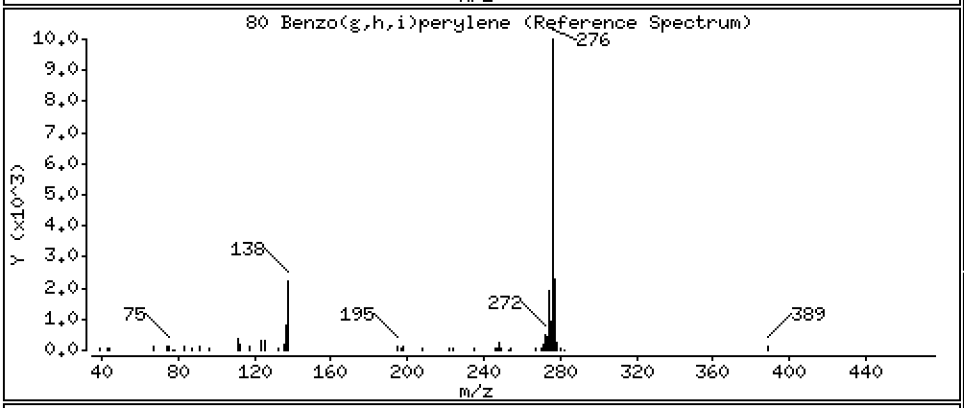
Concentration: 4.061 ug/mL

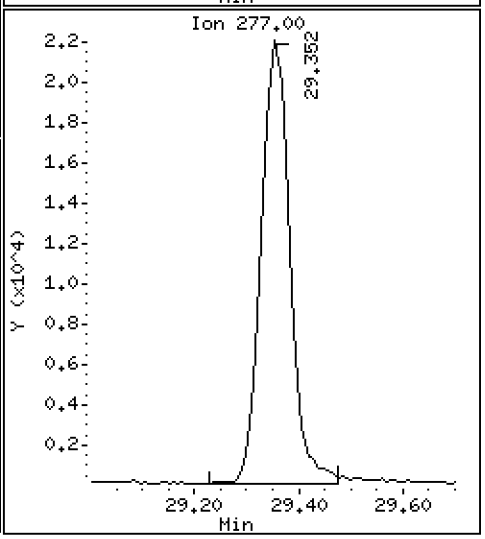


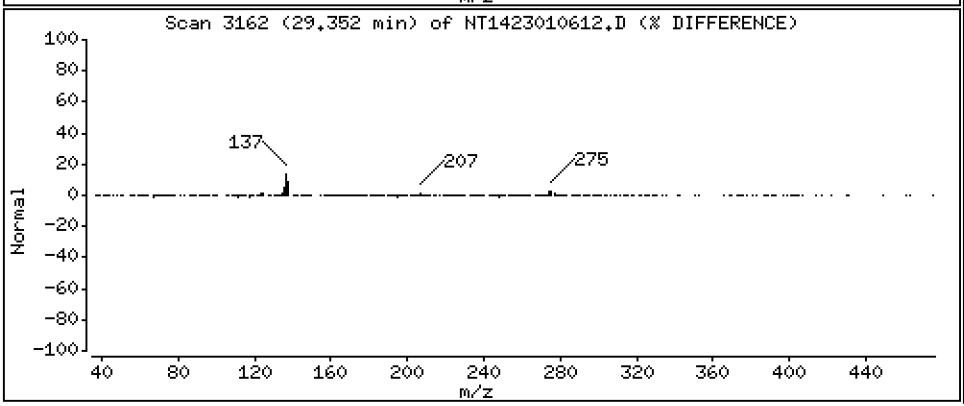












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

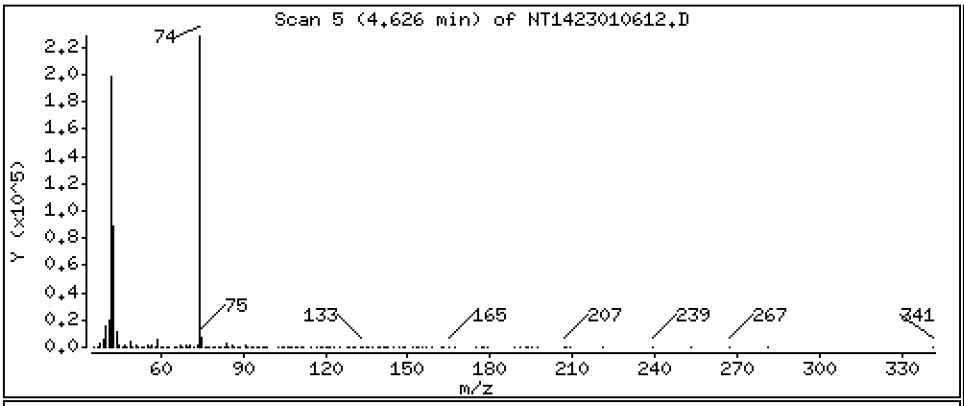
Operator: VTS

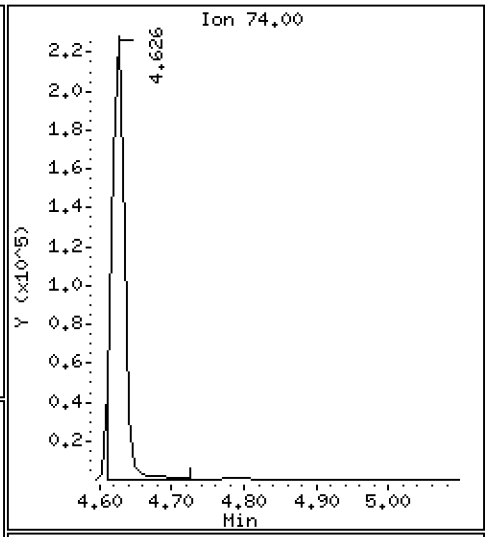
Column phase: ZB-5msi

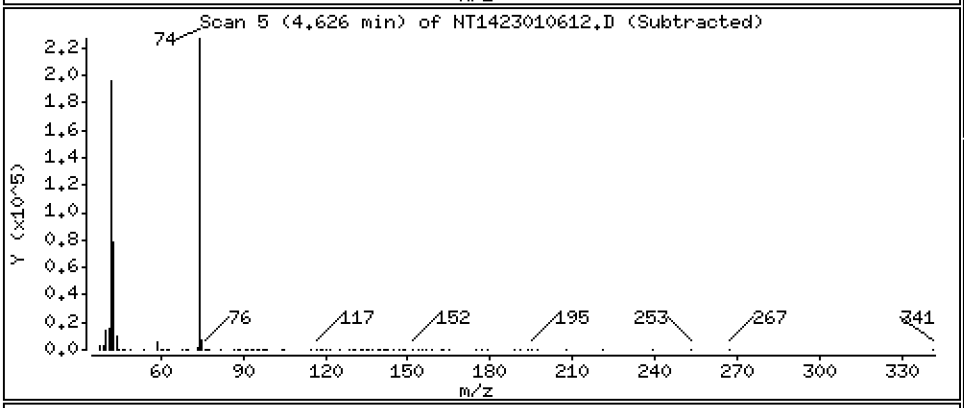
Column diameter: 0.25

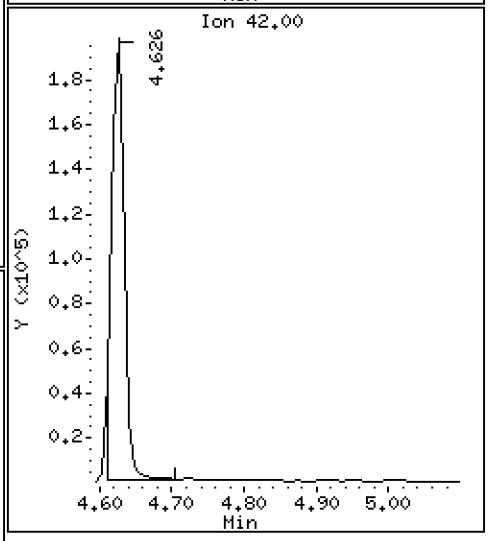
90 N-Nitrosodimethylamine

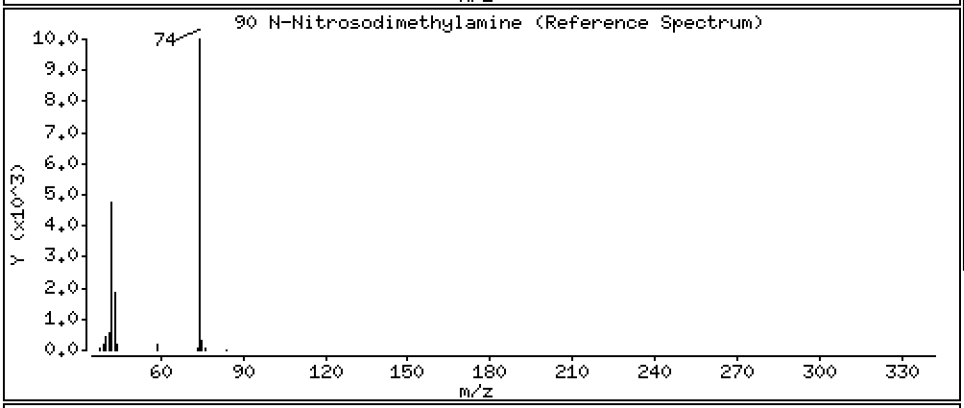
Concentration: 9.509 ug/mL

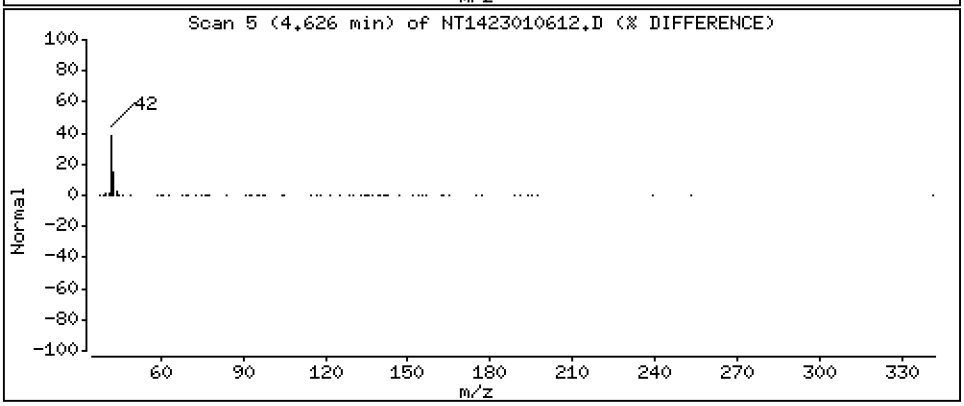












Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

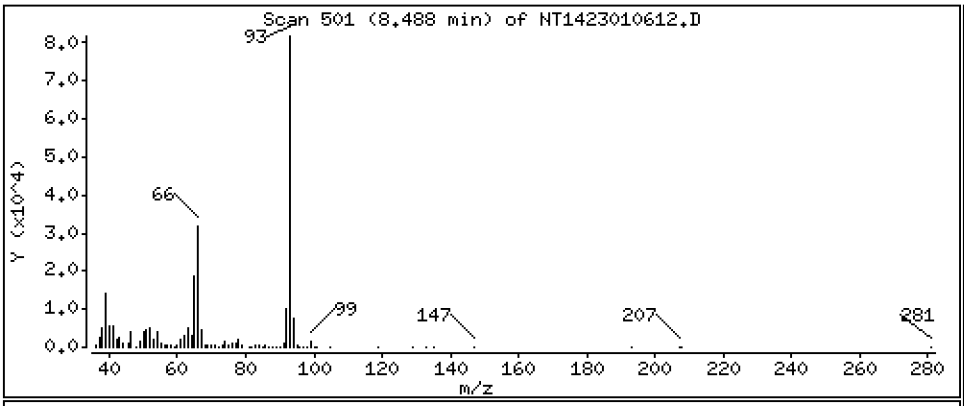
Operator: VTS

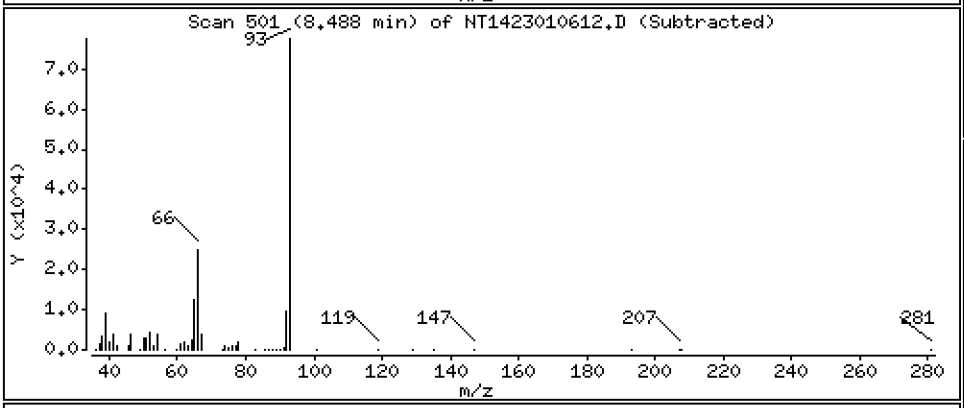
Column phase: ZB-5msi

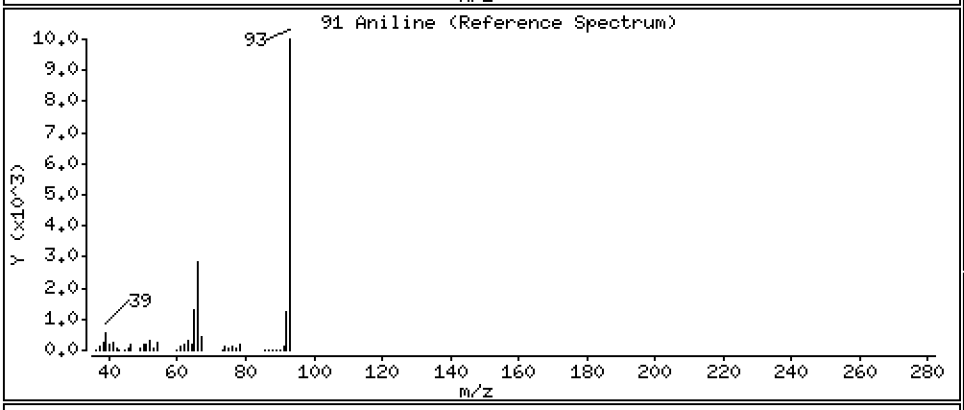
Column diameter: 0.25

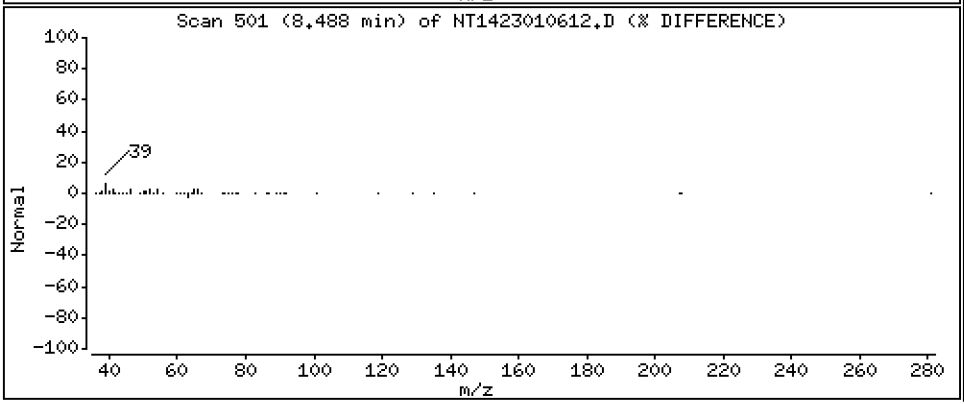
91 Aniline

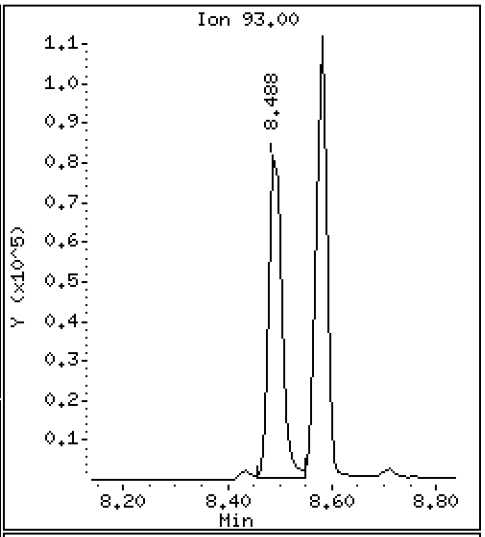
Concentration: 2.263 ug/mL

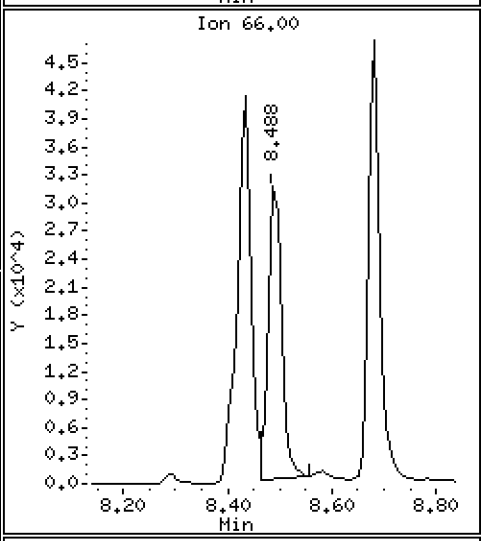


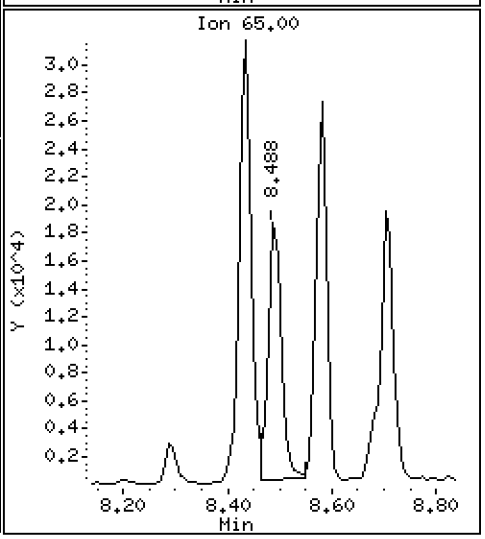












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

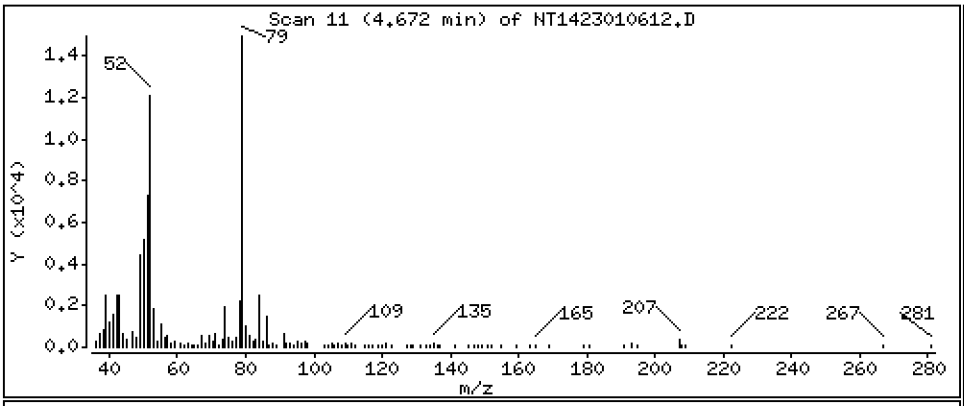
Operator: VTS

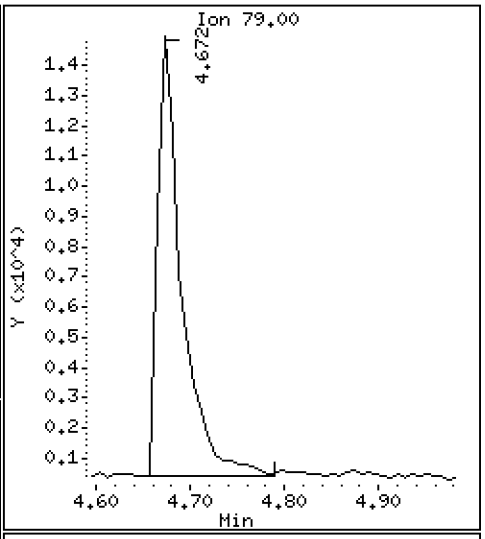
Column phase: ZB-5msi

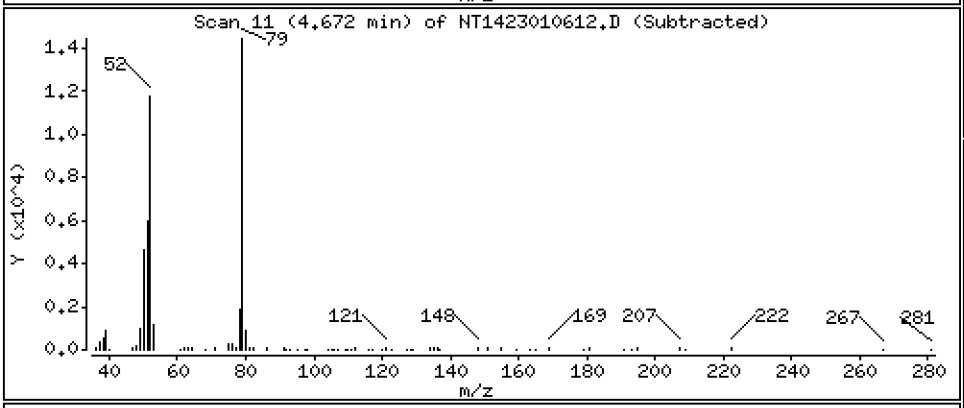
Column diameter: 0.25

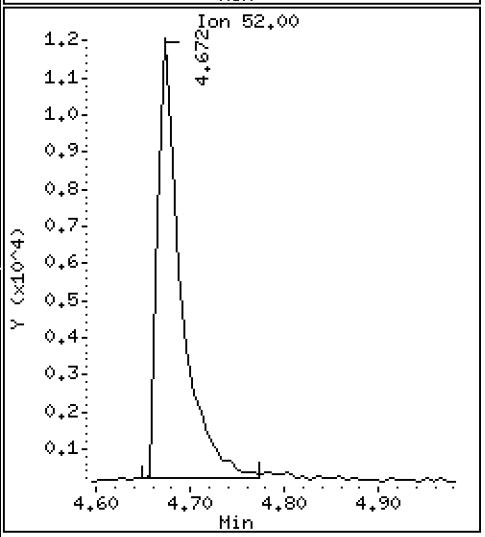
103 Pyridine

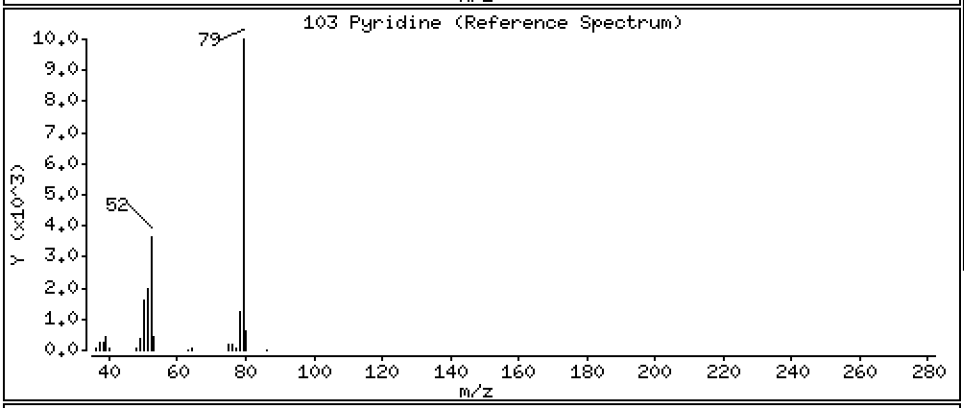
Concentration: 0.2730 ug/mL

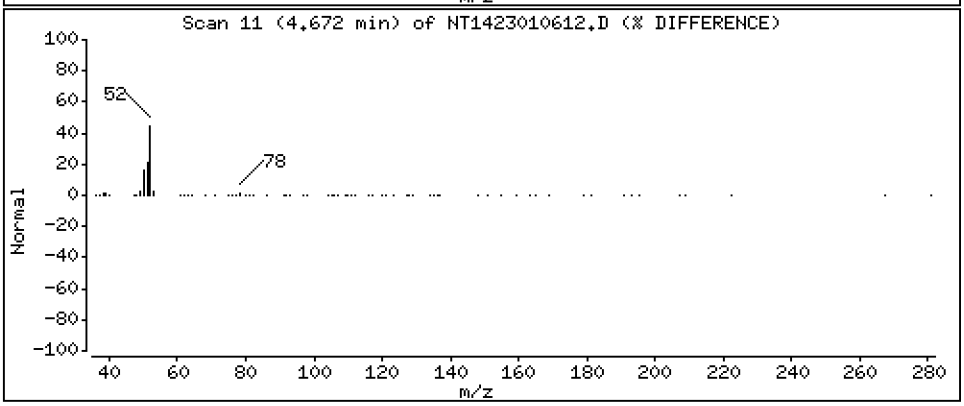












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

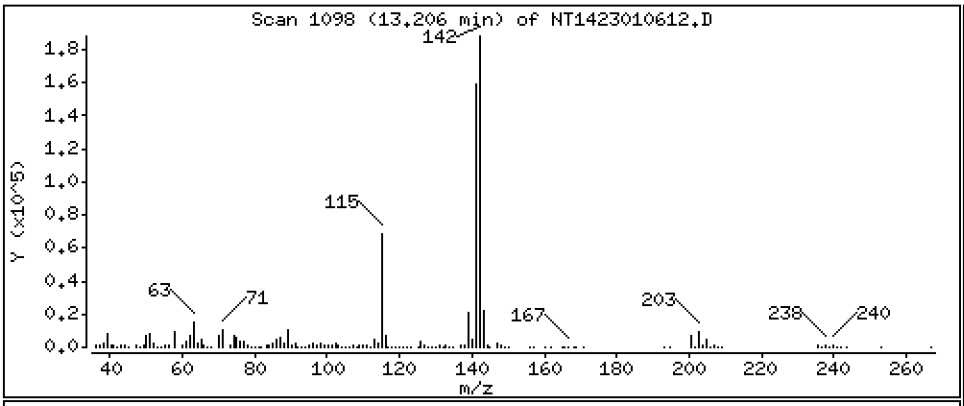
Operator: VTS

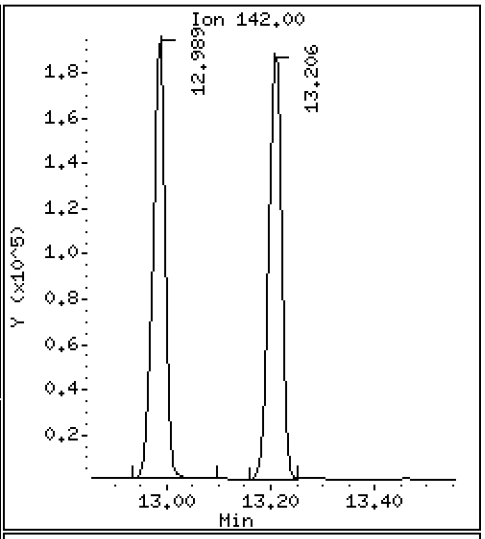
Column phase: ZB-5msi

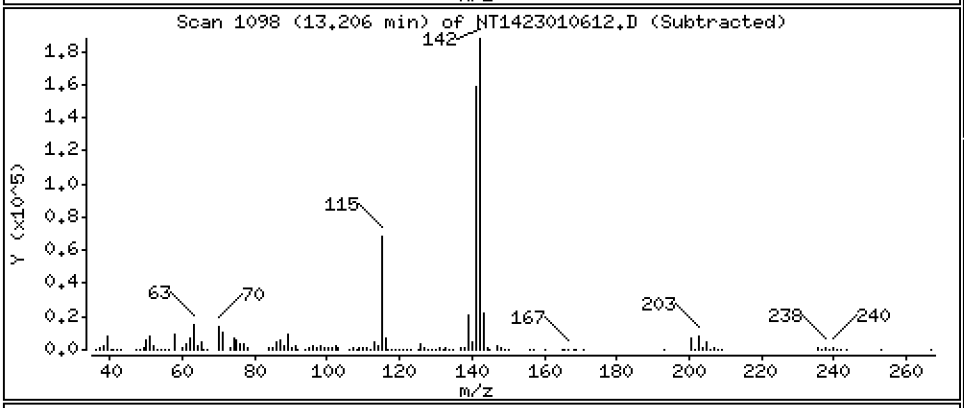
Column diameter: 0.25

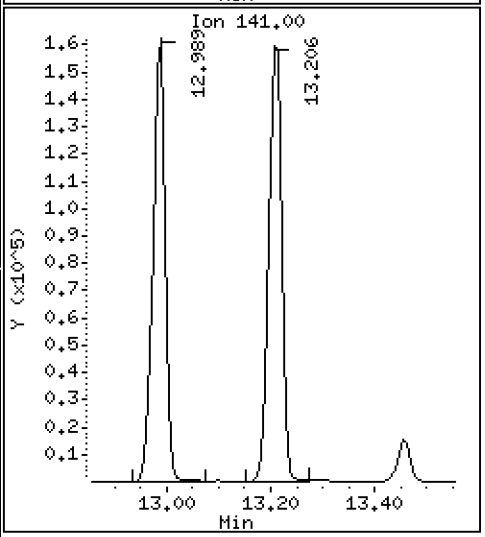
105 1-methylnaphthalene

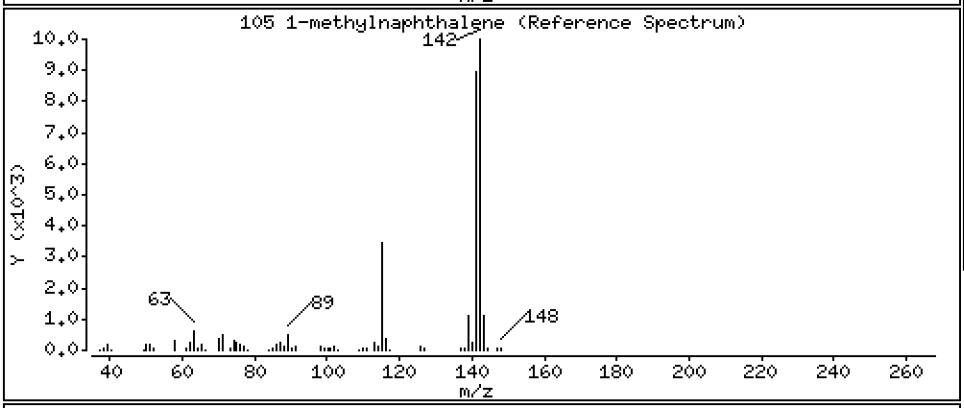
Concentration: 3.539 ug/mL

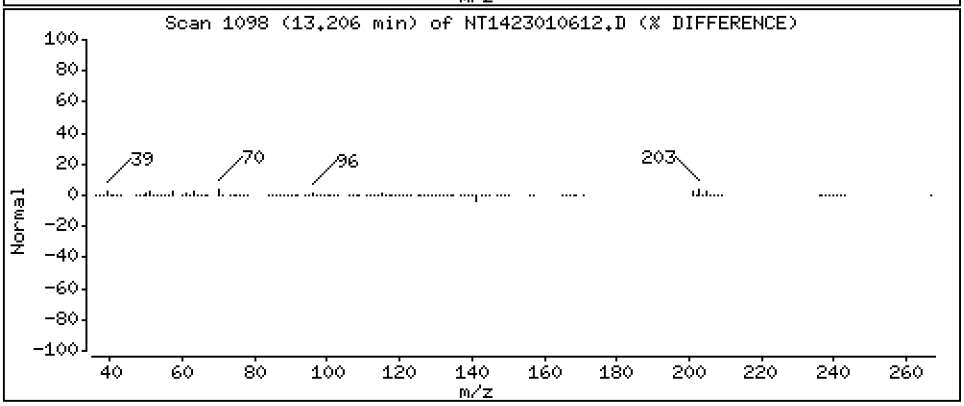












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

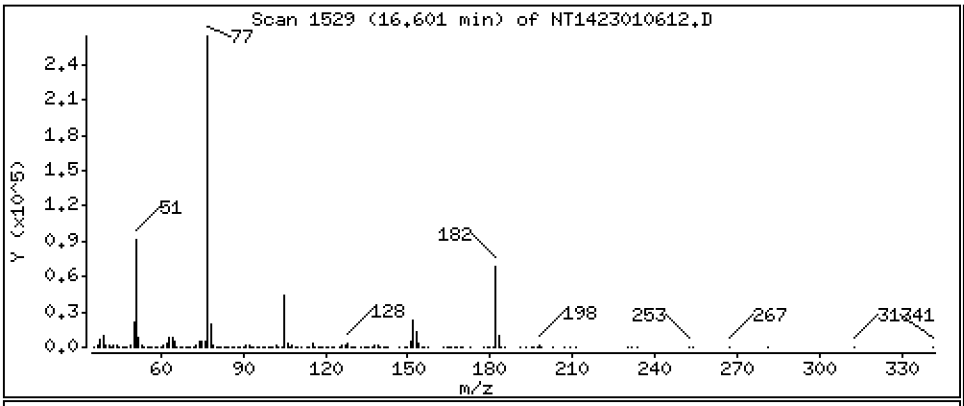
Operator: VTS

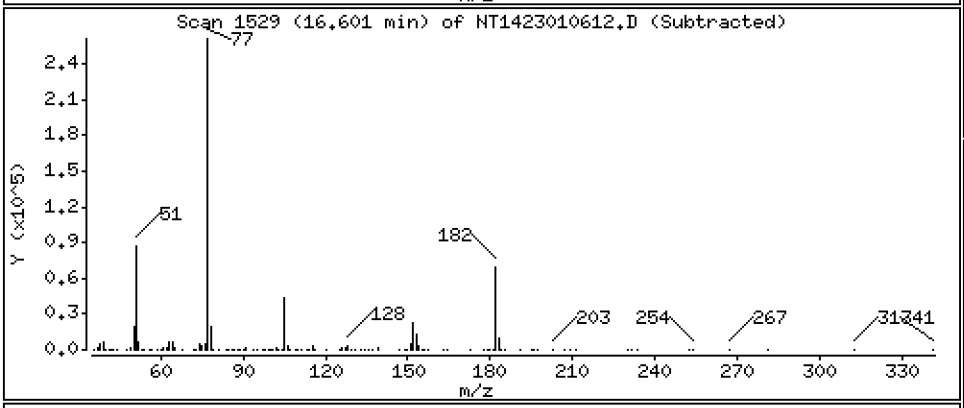
Column phase: ZB-5msi

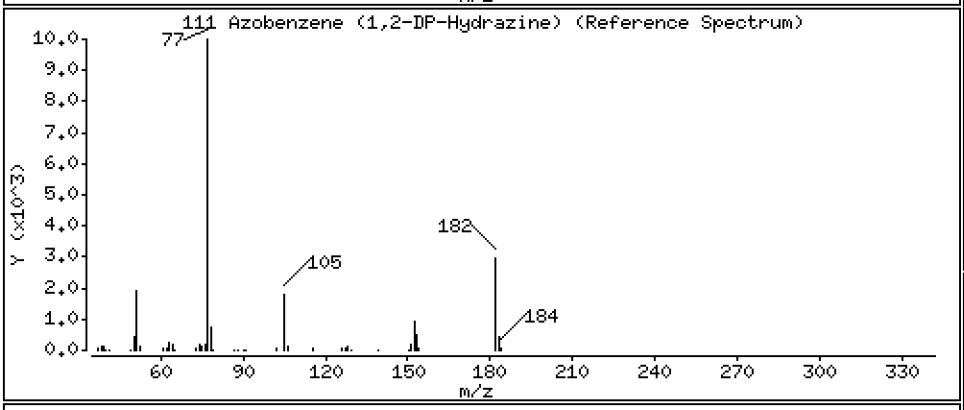
Column diameter: 0.25

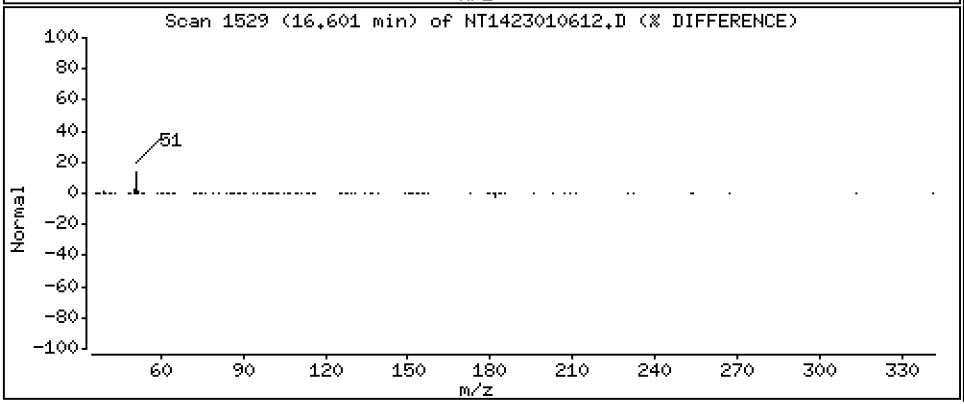
111 Azobenzene (1,2-DP-Hydrazine)

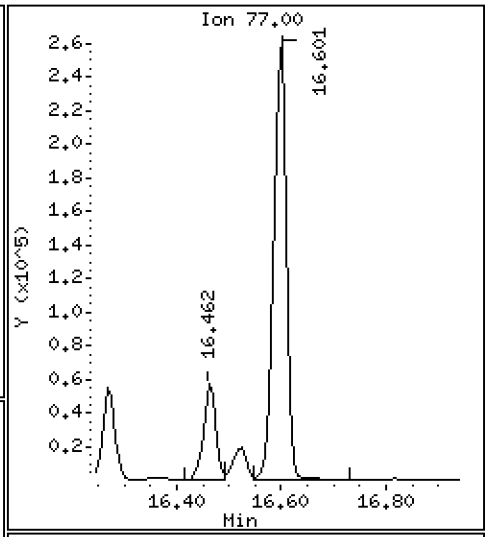
Concentration: 4.688 ug/mL

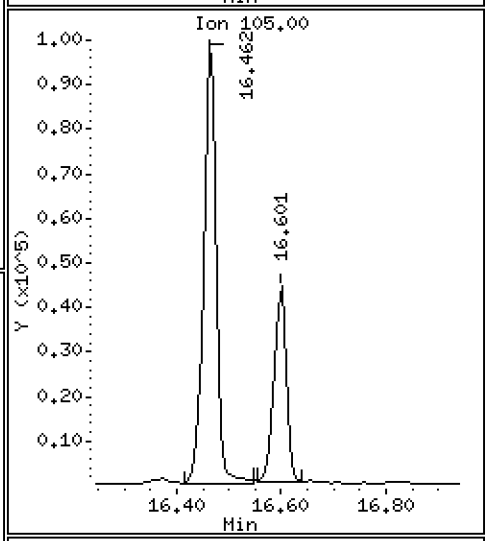


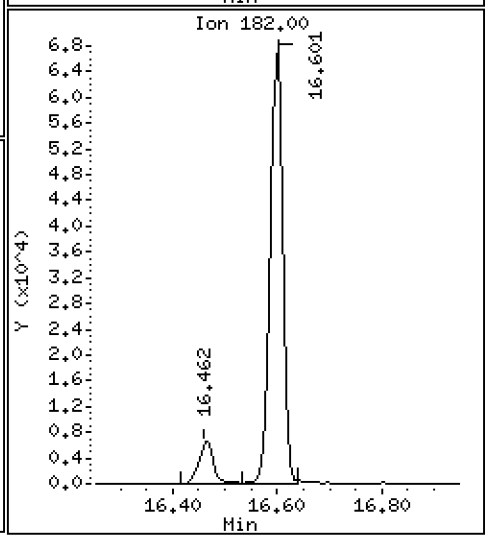












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

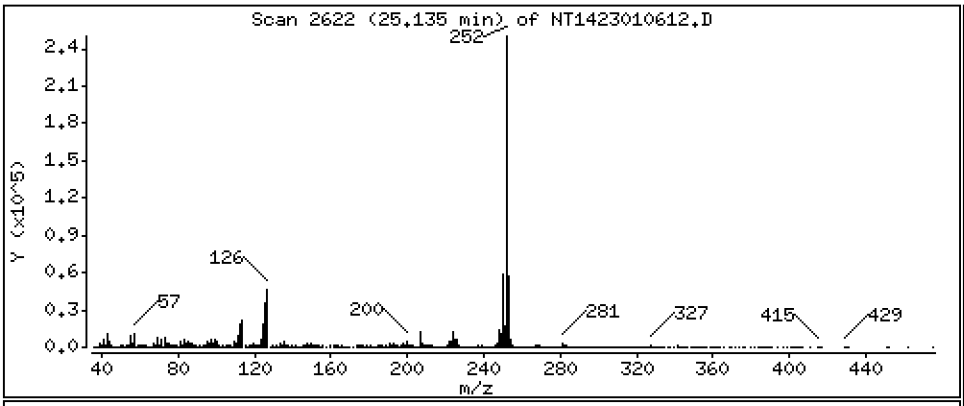
Operator: VTS

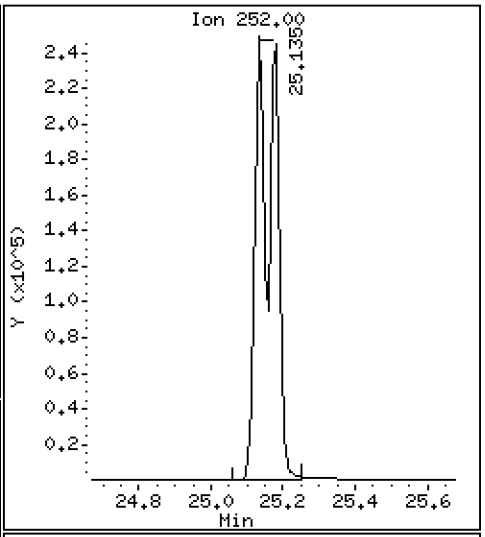
Column phase: ZB-5msi

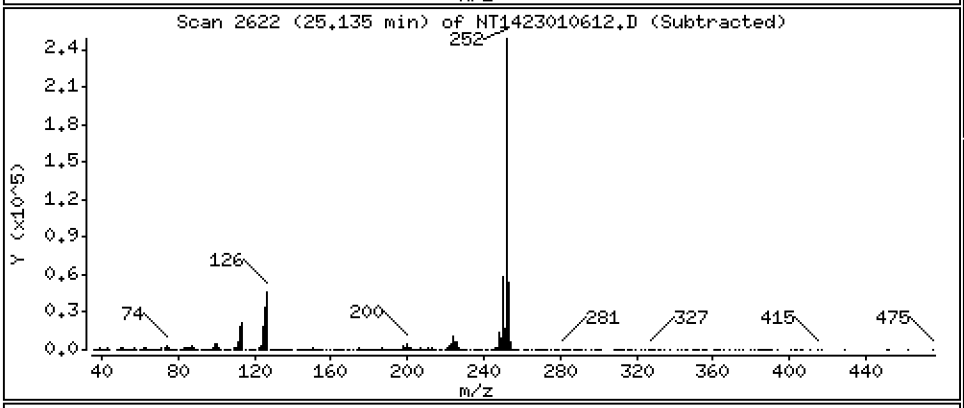
Column diameter: 0.25

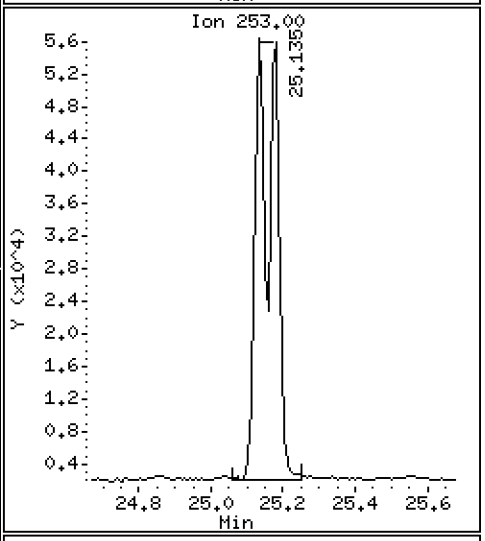
187 Total Benzofluoranthenes

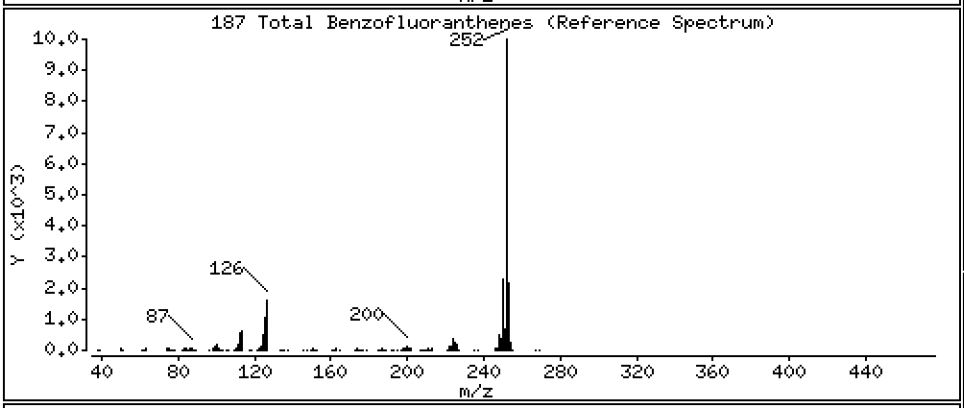
Concentration: 8.337 ug/mL

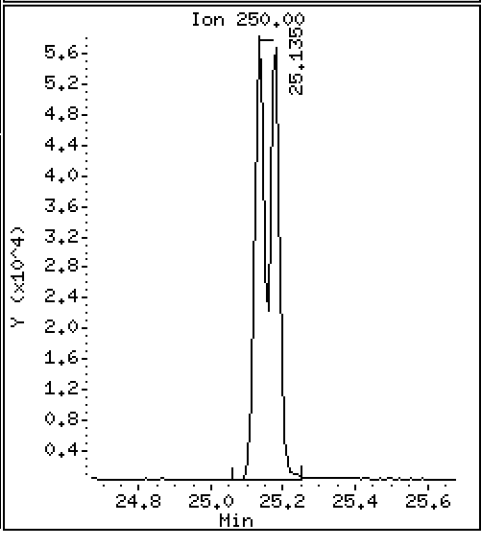


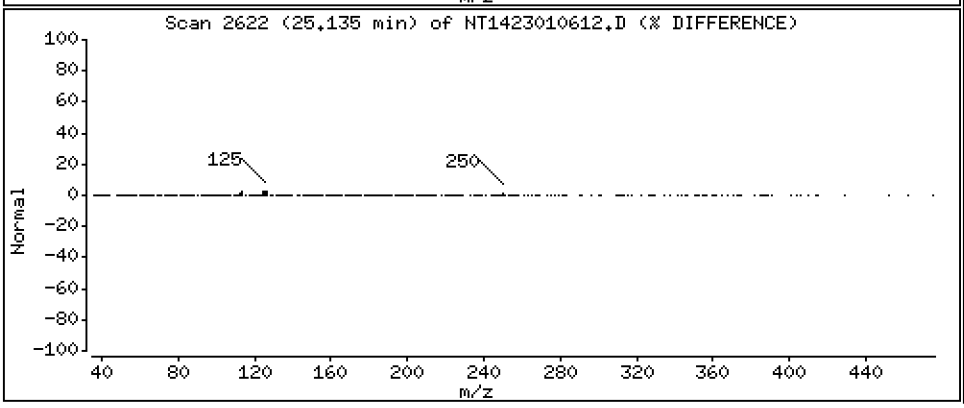












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Date : 06-JAN-2023 18:14

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BS1

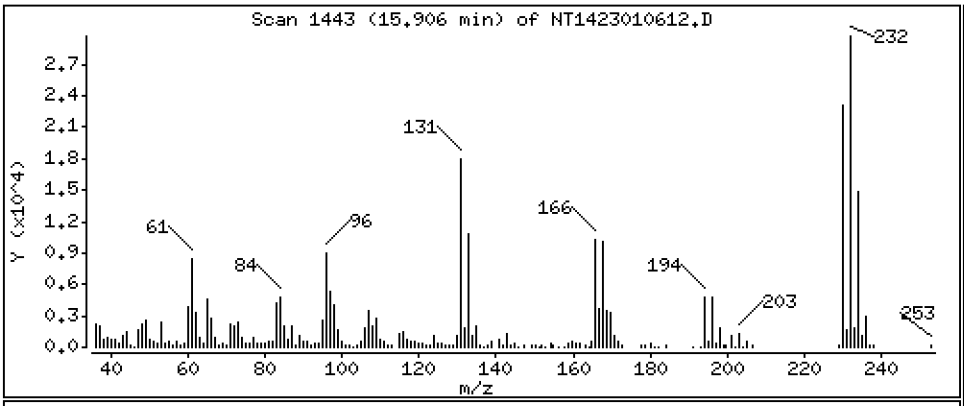
Operator: VTS

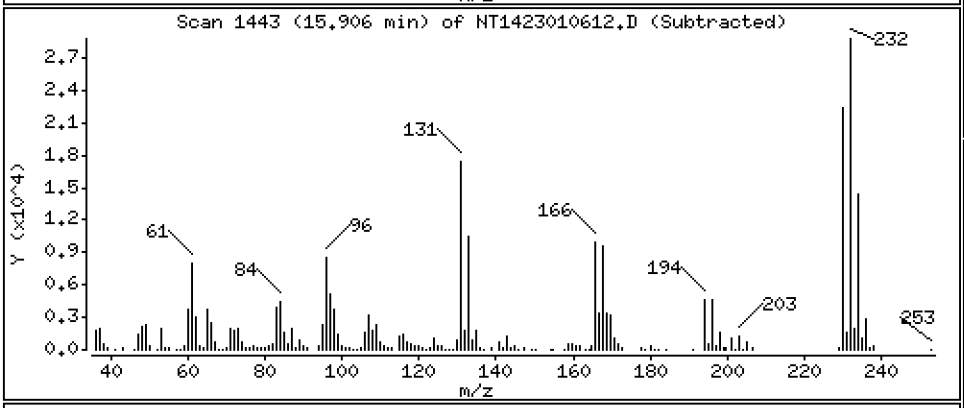
Column phase: ZB-5msi

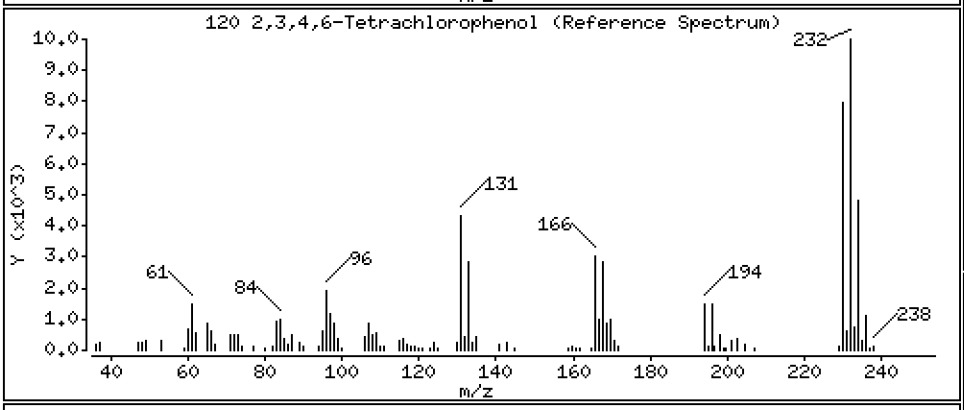
Column diameter: 0.25

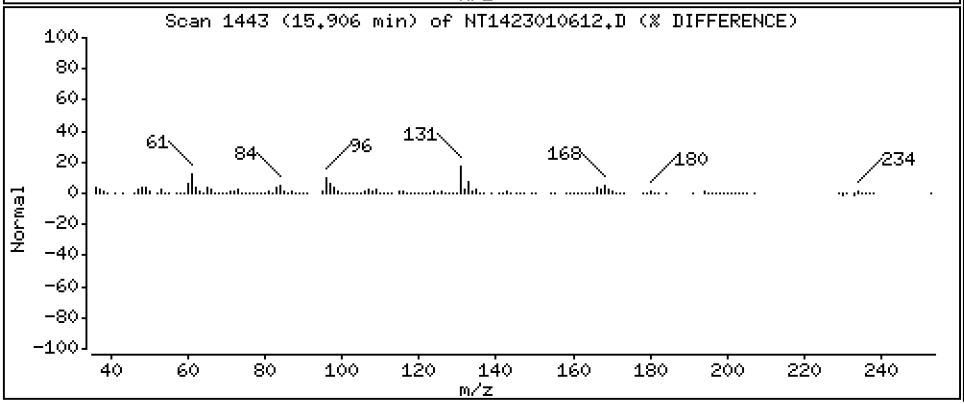
120 2,3,4,6-Tetrachlorophenol

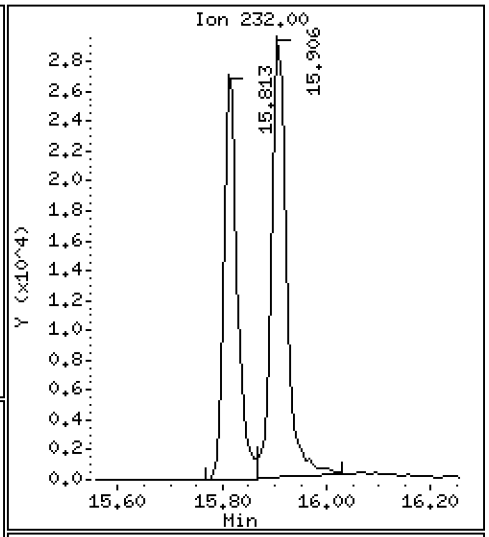
Concentration: 3.266 ug/mL

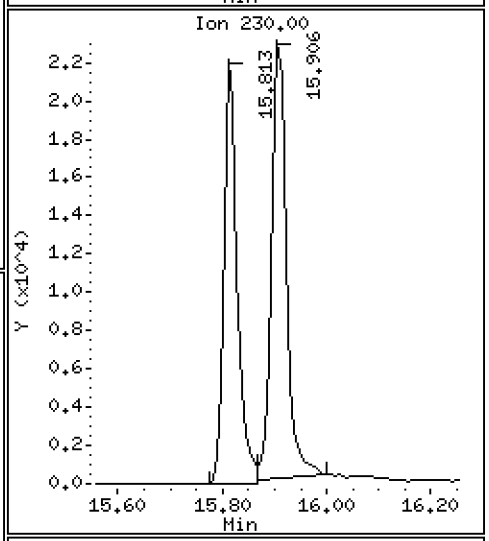


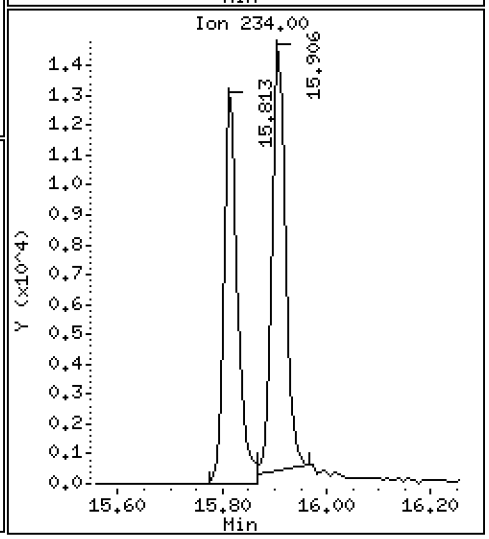












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010612.D
Lab Smp Id: BKL0585-BS1
Inj Date : 06-JAN-2023 18:14 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-BS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 11-Jan-2023 14:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	245702	5.64610	5.646
$	2 Phenol-d5	99	8.411	8.403	(0.931)	302184	5.61896	5.619
	3 Phenol	94	8.434	8.426	(0.933)	182430	2.98534	2.985
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	269025	5.95634	5.956
	4 Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	156519	3.71818	3.718
	6 2-Chlorophenol	128	8.712	8.704	(0.964)	156172	3.14841	3.148
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	176733	3.36000	3.360
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	135833	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	195175	3.91677	3.917
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	118551	3.84032	3.840
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	172439	3.52855	3.529
	11 Benzyl alcohol	108	9.402	9.308	(1.040)	68748	2.52711	2.527(MH)
	14 2,2'-oxybis(1-Chloropropane)	121	9.619	9.611	(1.064)	55989	3.95166	3.952
	13 2-Methylphenol	108	9.549	9.541	(1.057)	134176	3.02169	3.022
	17 Hexachloroethane	117	10.030	10.022	(1.110)	66367	3.62124	3.621
	16 N-Nitroso-di-n-propylamine	70	9.875	9.867	(1.093)	107311	3.96717	3.967
	15 4-Methylphenol	108	9.829	9.813	(1.088)	138248	2.95132	2.951
$	18 Nitrobenzene-d5	82	10.139	10.131	(0.878)	185868	4.39287	4.393
	19 Nitrobenzene	77	10.170	10.170	(0.881)	163662	3.89478	3.895
	20 Isophorone	82	10.628	10.620	(0.921)	312218	5.82977	5.830
	21 2-Nitrophenol	139	10.806	10.806	(0.936)	96215	3.63501	3.635
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	310389	7.07735	7.077
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	179261	4.30267	4.303
	24 Benzoic acid	105	11.062	11.062	(0.958)	417803	15.1256	15.13
	25 2,4-Dichlorophenol	162	11.272	11.263	(0.977)	464747	12.5715	12.57
	26 1,2,4-Trichlorobenzene	180	11.457	11.449	(0.993)	164685	4.11991	4.120
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	501057	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	455892	3.69718	3.697
	29 4-Chloroaniline	127	11.712	11.704	(1.015)	367251	7.22198	7.222
	30 Hexachlorobutadiene	225	11.952	11.951	(1.035)	88995	4.48724	4.487
	31 4-Chloro-3-methylphenol	107	12.687	12.679	(1.099)	473448	13.5711	13.57
	32 2-Methylnaphthalene	142	12.989	12.981	(1.125)	316614	3.50043	3.500
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	156482	8.56664	8.567

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.615	13.607	(0.897)	287096	14.2345	14.23
	35	2,4,5-Trichlorophenol	196	13.693	13.685	(0.903)	313031	13.4476	13.45
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	348555	4.29013	4.290
	37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	269737	3.90261	3.903
	38	2-Nitroaniline	65	14.242	14.234	(0.939)	353600	19.4592	19.46
	39	Dimethylphthalate	163	14.676	14.668	(0.967)	310156	4.55129	4.551
	40	Acenaphthylene	152	14.854	14.853	(0.979)	417282	3.95947	3.959
	41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	269993	17.5557	17.56
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	241644	4.00000	
	43	3-Nitroaniline	138	15.094	15.093	(0.995)	220369	11.7893	11.79
	44	Acenaphthene	153	15.241	15.232	(1.005)	267328	4.08973	4.090
	45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	205516	15.1940	15.19
	46	Dibenzofuran	168	15.565	15.565	(1.026)	380819	3.88501	3.885
	47	4-Nitrophenol	109	15.434	15.426	(1.017)	129195	13.9786	13.98
	48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	359932	17.0578	17.06
	50	Diethylphthalate	149	16.137	16.137	(1.064)	472452	5.10062	5.101
	49	Fluorene	166	16.284	16.276	(1.073)	401365	3.84901	3.849
	51	4-Chlorophenyl-phenylether	204	16.276	16.268	(1.073)	182935	3.58330	3.583
	52	4-Nitroaniline	138	16.369	16.361	(1.079)	295547	12.7441	12.74
	53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.903)	382469	20.5360	20.54
	54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	246225	3.38735	3.387
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	75796	6.46852	6.469
	56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.948)	104516	3.79717	3.797
	57	Hexachlorobenzene	284	17.596	17.595	(0.966)	104982	3.47560	3.476
	58	Pentachlorophenol	266	17.960	17.952	(0.986)	97954	7.22147	7.221
*	59	Phenanthrene-d10	188	18.223	18.215	(1.000)	423608	4.00000	
	60	Phenanthrene	178	18.269	18.261	(1.003)	422489	3.82526	3.825
	61	Anthracene	178	18.362	18.354	(1.008)	345450	3.27633	3.276
	62	Carbazole	167	18.695	18.687	(1.026)	361909	3.55056	3.551
	63	Di-n-butylphthalate	149	19.492	19.484	(1.070)	583770	4.87474	4.875
	64	Fluoranthene	202	20.660	20.652	(0.888)	480699	4.54785	4.548
	65	Pyrene	202	21.085	21.077	(0.906)	462107	4.15816	4.158
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	406099	5.15355	5.154
	67	Butylbenzylphthalate	149	22.285	22.285	(0.957)	240849	5.63141	5.631
	68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	436707	4.39153	4.392
*	69	Chrysene-d12	240	23.276	23.268	(1.000)	328270	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	385314	12.6574	12.66
	71	Chrysene	228	23.323	23.315	(1.002)	422299	4.49578	4.496
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	364185	5.02395	5.024
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	652719	4.00000	
	73	Di-n-octylphthalate	149	24.314	24.306	(1.001)	655628	4.18449	4.184
	74	Benzo(b)fluoranthene	252	25.134	25.126	(0.970)	473176	4.27392	4.274
	75	Benzo(k)fluoranthene	252	25.181	25.173	(0.972)	461438	4.09501	4.095
	76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	371403	4.03544	4.035
*	77	Perylene-d12	264	25.901	25.901	(1.000)	352283	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.575	28.567	(1.103)	447786	4.27997	4.280
	79	Dibenzo(a,h)anthracene	278	28.582	28.574	(1.104)	376655	4.23653	4.237
	80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	355932	4.06104	4.061
	90	N-Nitrosodimethylamine	74	4.626	4.749	(0.512)	284994	9.50915	9.509
	91	Aniline	93	8.488	8.487	(0.939)	134655	2.26310	2.263
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.672	4.633	(0.517)	25995	0.27296	0.2730
	105	1-methylnaphthalene	142	13.205	13.205	(1.144)	307565	3.53902	3.539
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.600	16.592	(1.094)	420682	4.68801	4.688

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.173	(0.970)	892345	8.33692	8.337
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	57047	3.26578	3.266

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010612.D
Lab Smp Id: BKL0585-BS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	135833	1.28
27 Naphthalene-d8	499117	249559	998234	501057	0.39
42 Acenaphthene-d10	260320	130160	520640	241644	-7.17
59 Phenanthrene-d10	432406	216203	864812	423608	-2.03
69 Chrysene-d12	317887	158944	635774	328270	3.27
134 Di-n-octylphthala	664061	332031	1328122	652719	-1.71
77 Perylene-d12	313716	156858	627432	352283	12.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010612.D

Lab ID: BKL0585-BS1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 18:14

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.040	1.030	0.0103	Benzyl alcohol
0.512	0.000	0.5119	N-Nitrosodimethylamine

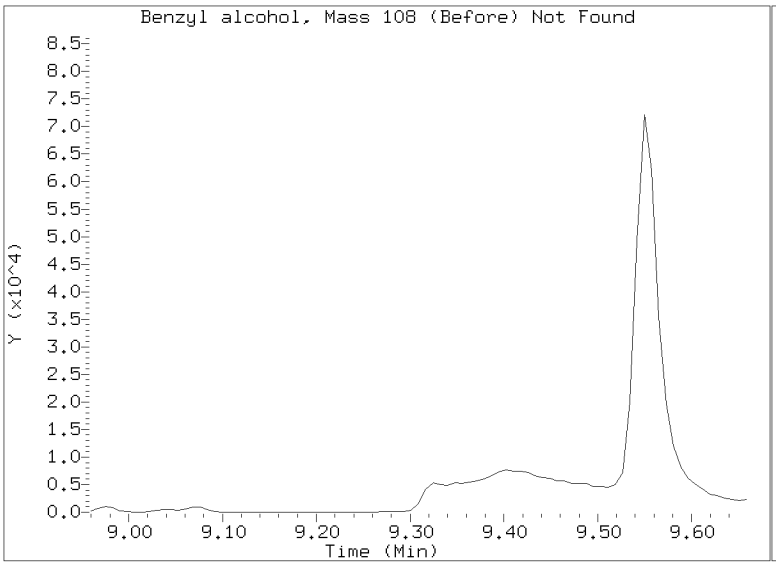
RRT check based on Ccal File: NT1423010602.D

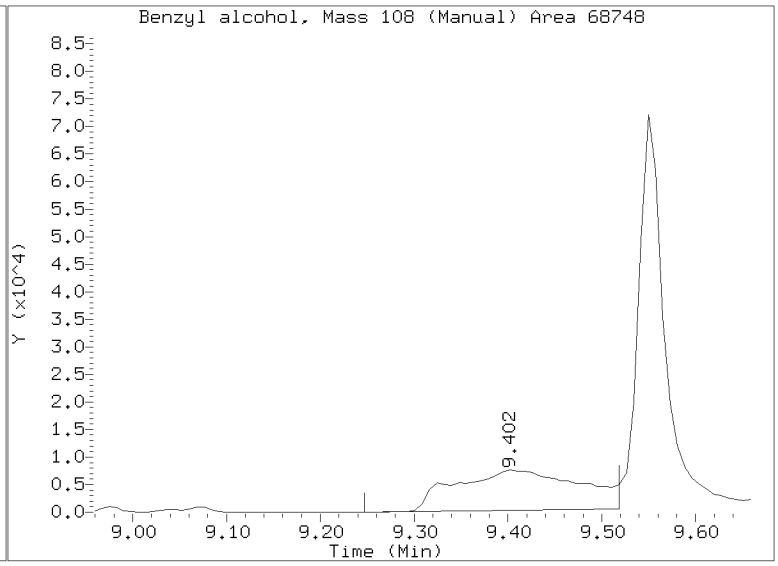
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

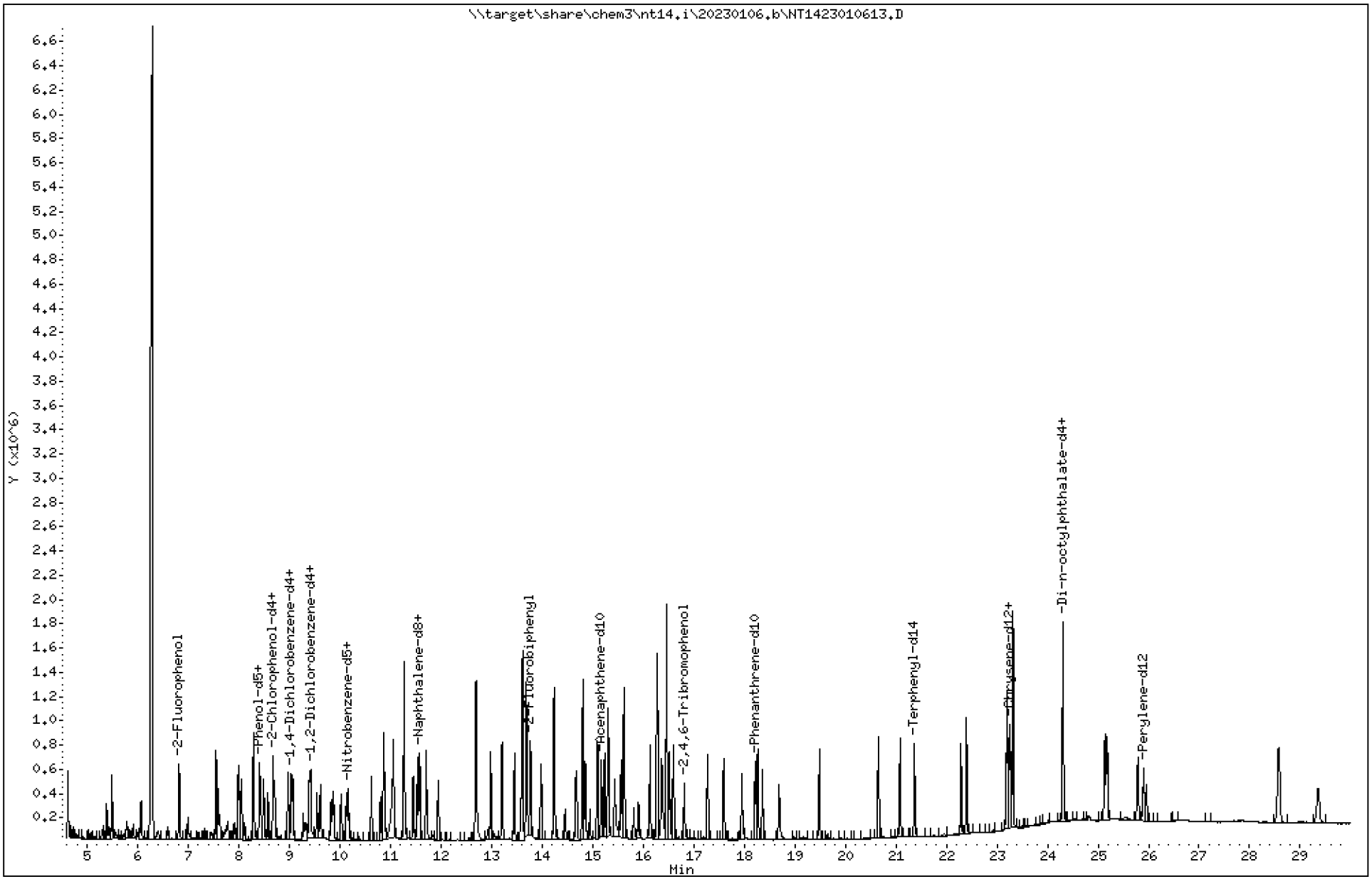
Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010612.D
Injection Date: 06-JAN-2023 18:14
Lab ID:BKL0585-BS1 Client ID:
Report Date: 01/11/2023 14:42





Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D
Date : 06-JAN-2023 18:50
Client ID:
Sample Info: BKL0585-BSD1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 871 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

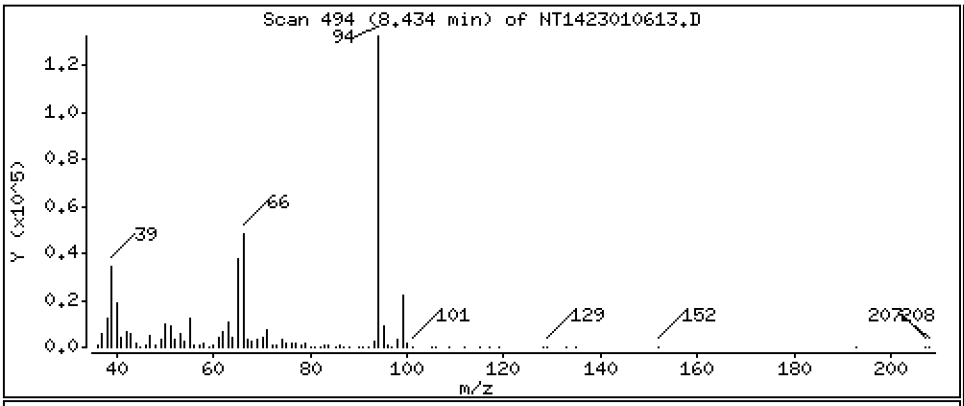
Operator: VTS

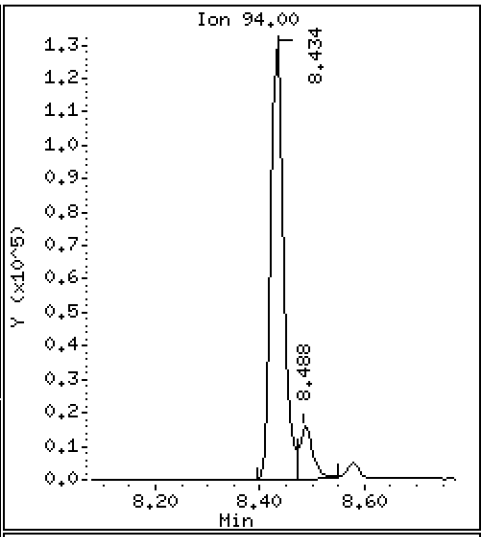
Column phase: ZB-5msi

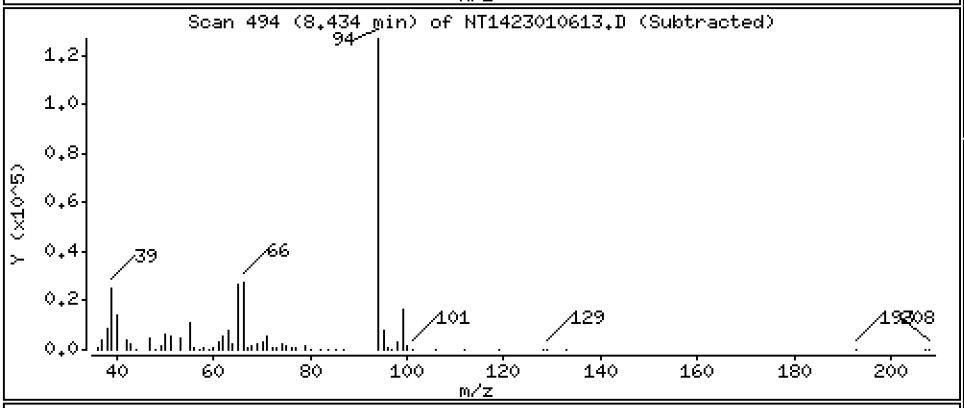
Column diameter: 0.25

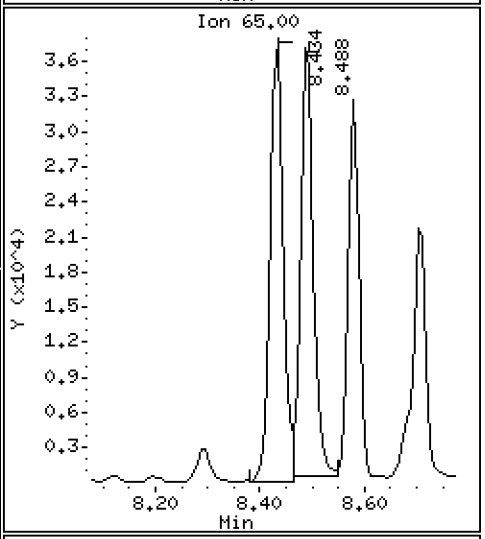
3 Phenol

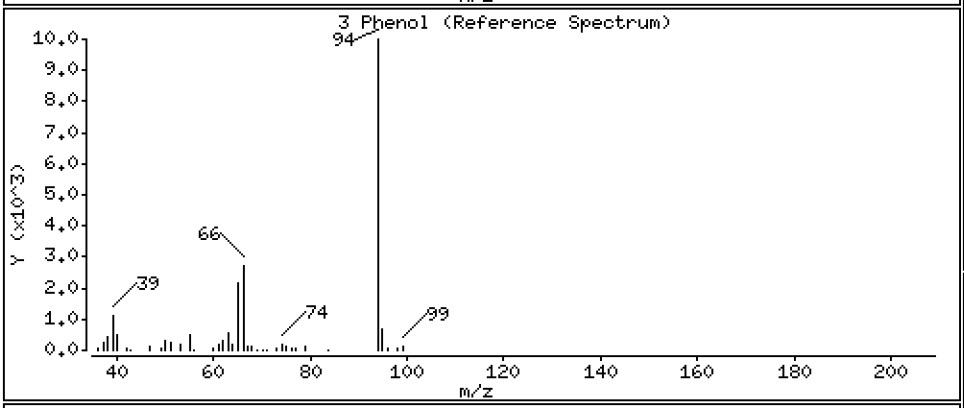
Concentration: 3.450 ug/mL

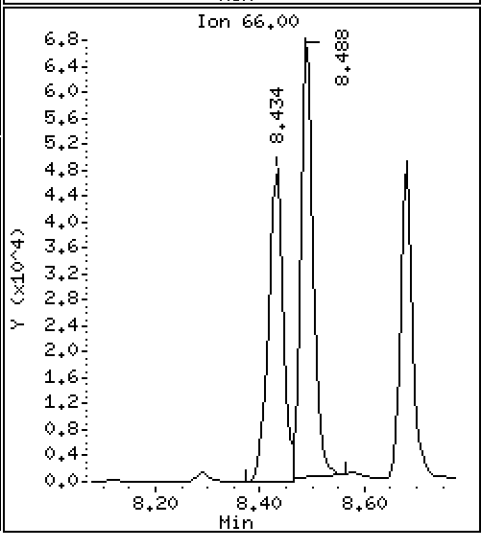


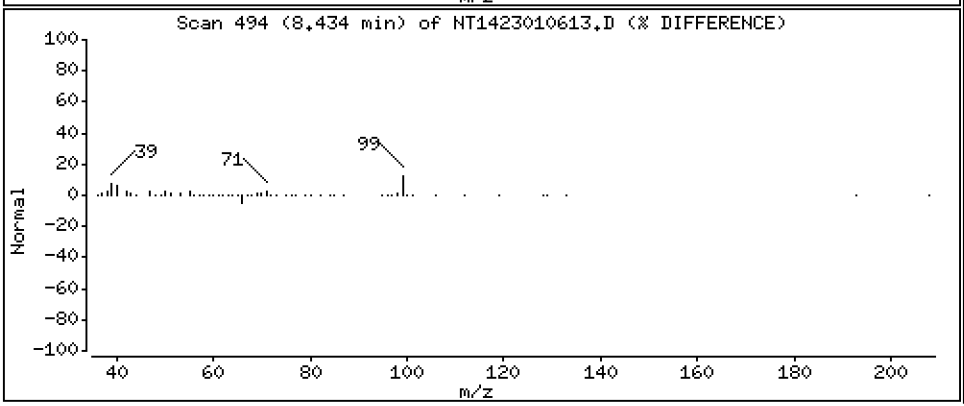












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

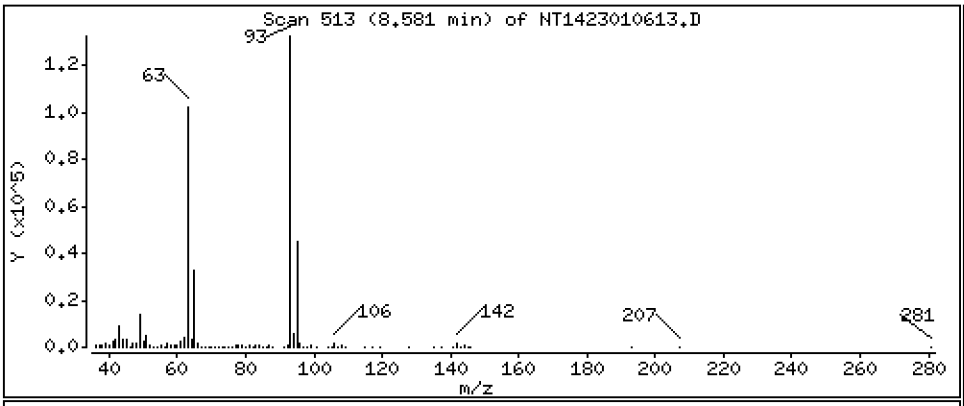
Operator: VTS

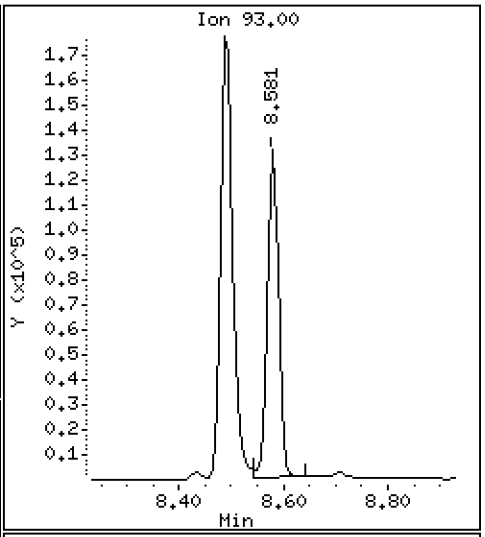
Column phase: ZB-5msi

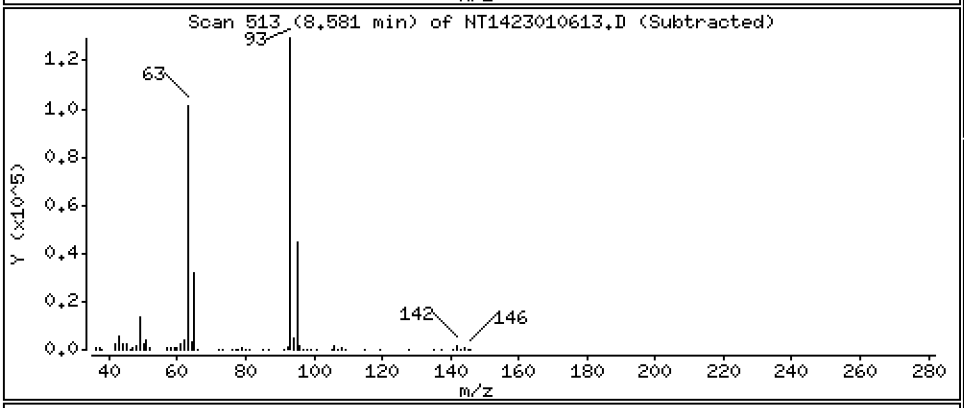
Column diameter: 0.25

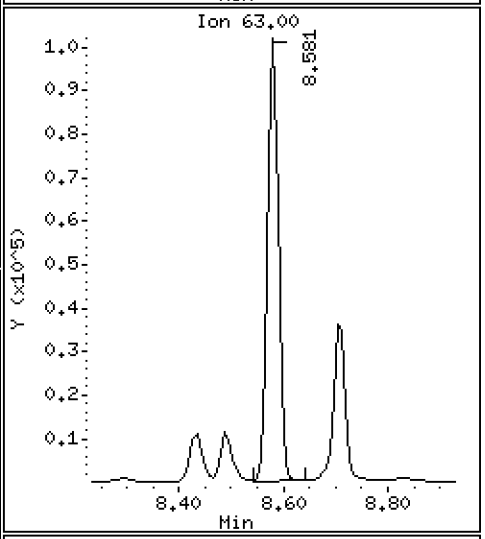
4 Bis(2-Chloroethyl)ether

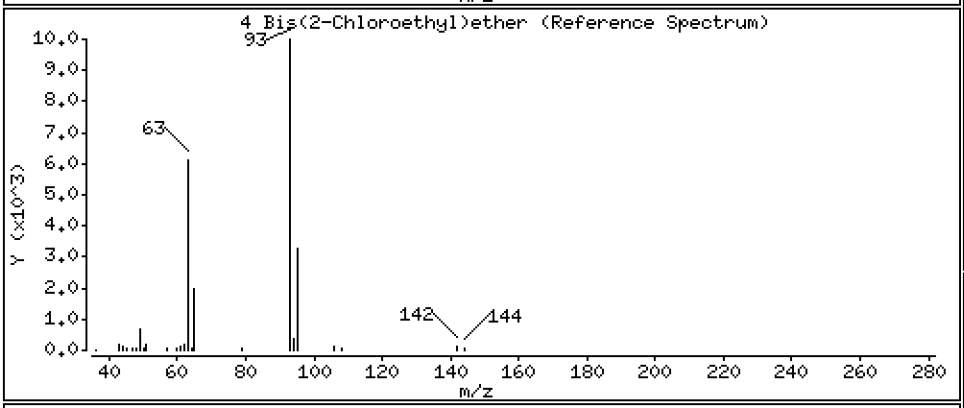
Concentration: 4.317 ug/mL

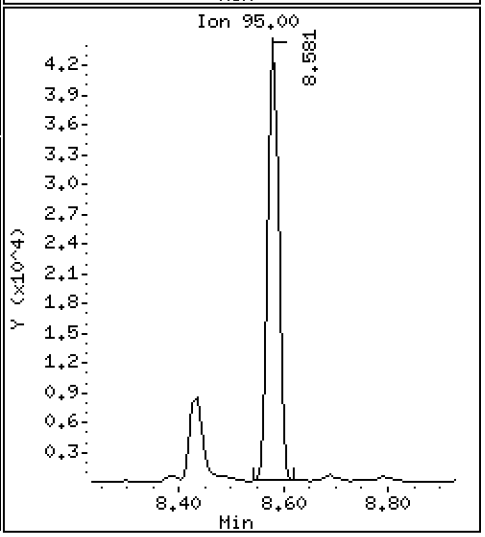


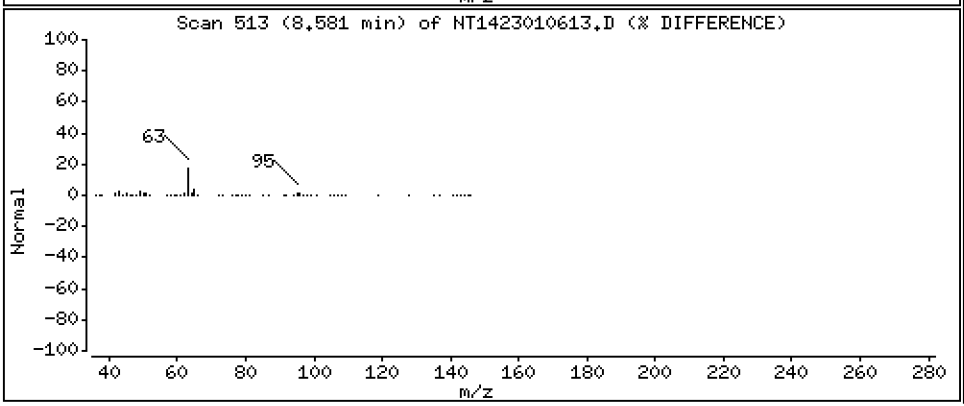












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

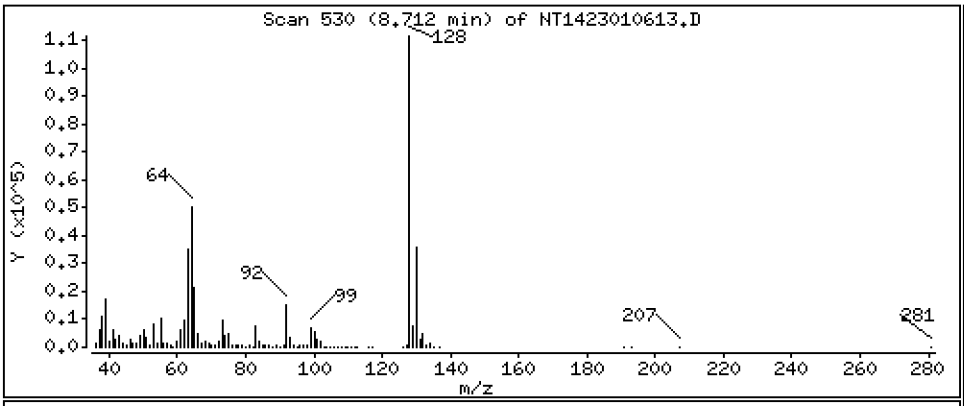
Operator: VTS

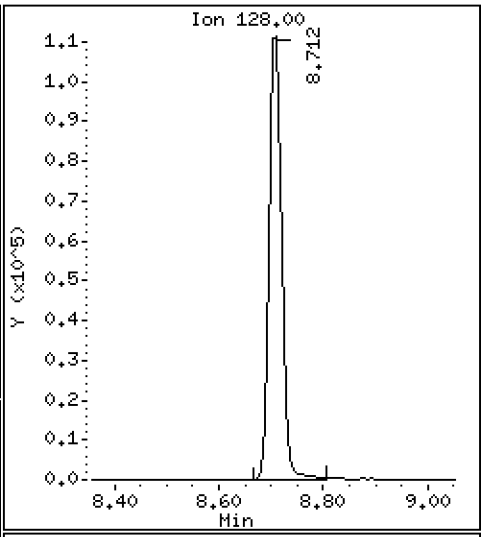
Column phase: ZB-5msi

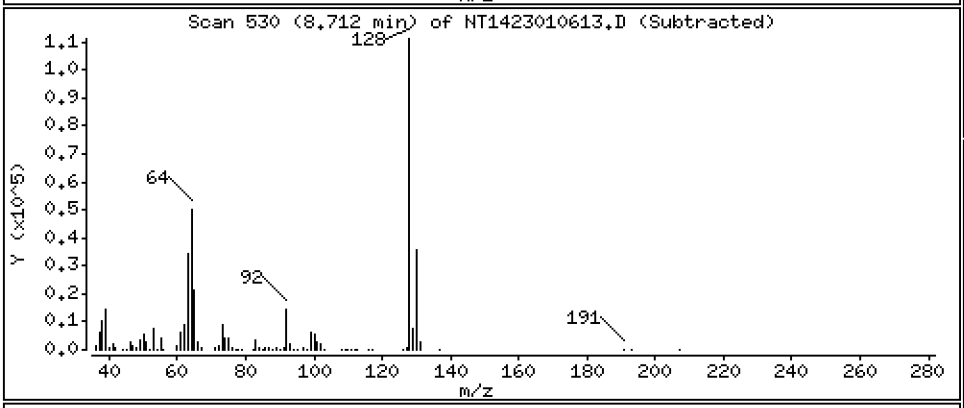
Column diameter: 0.25

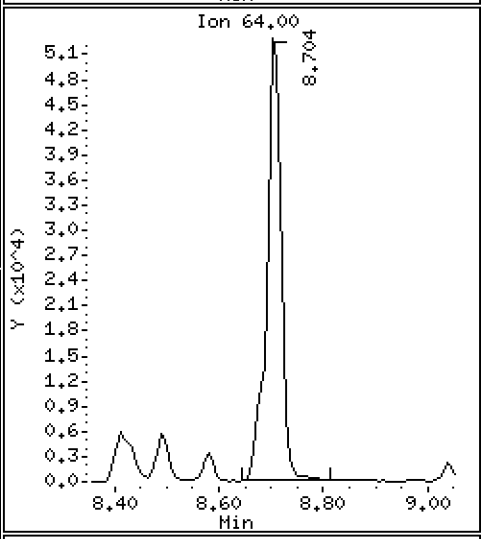
6 2-Chlorophenol

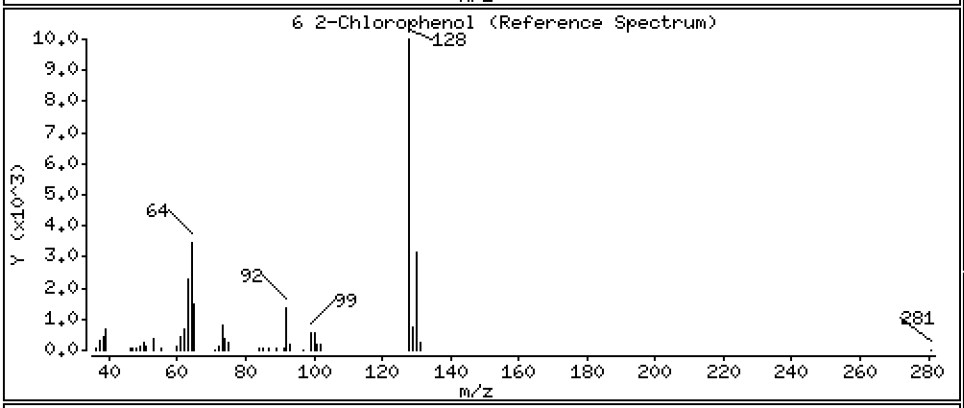
Concentration: 3.611 ug/mL

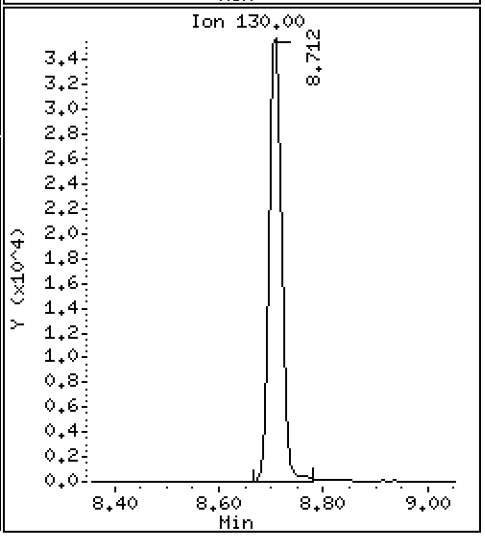


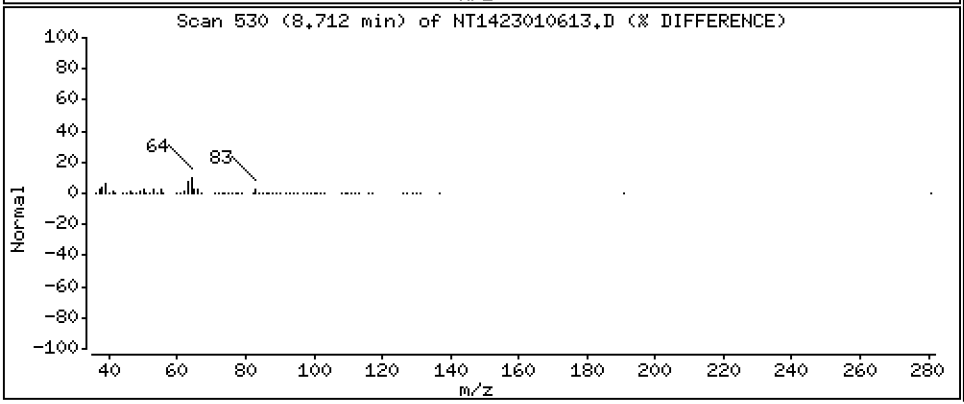












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

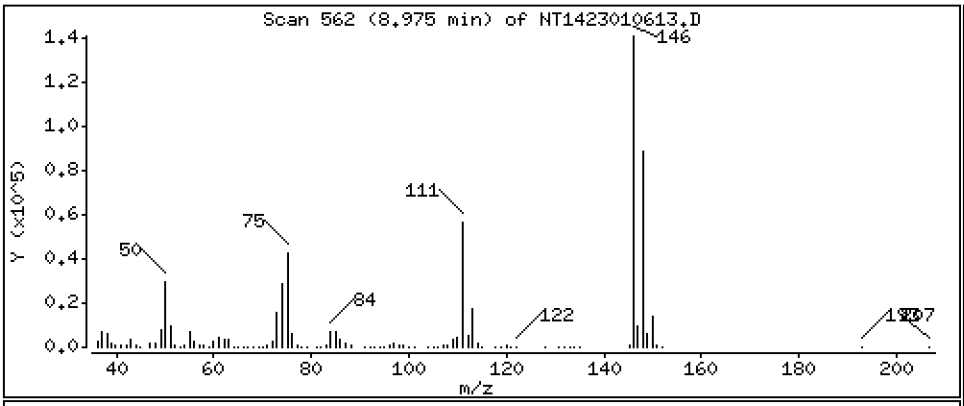
Operator: VTS

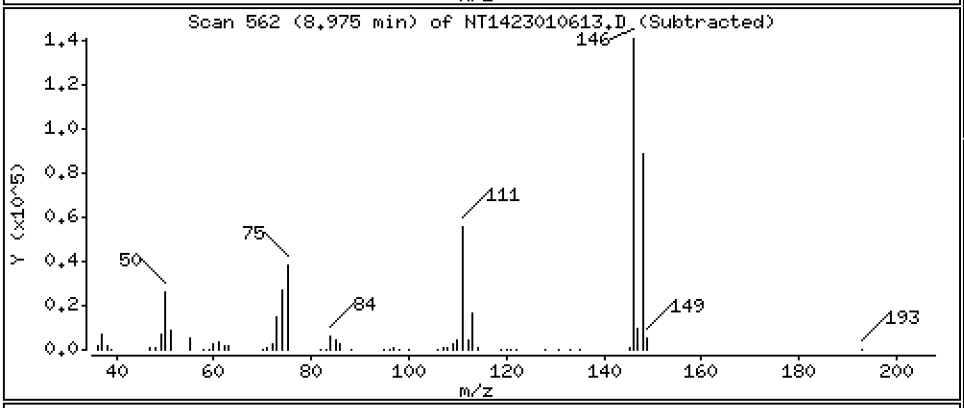
Column phase: ZB-5msi

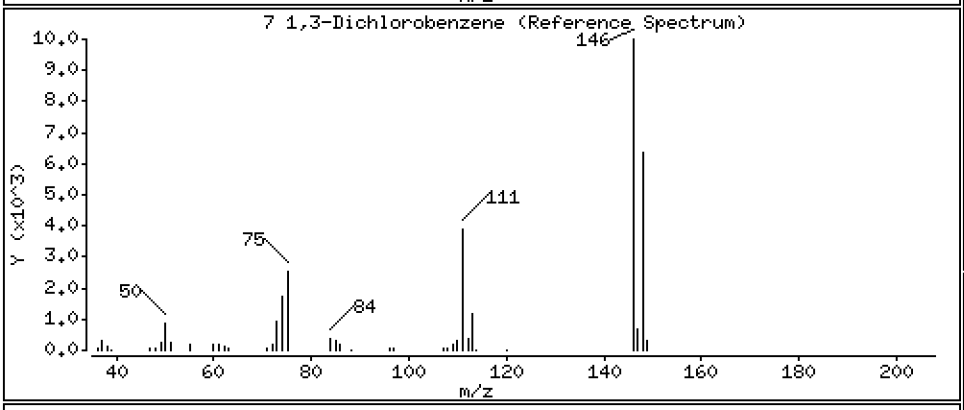
Column diameter: 0.25

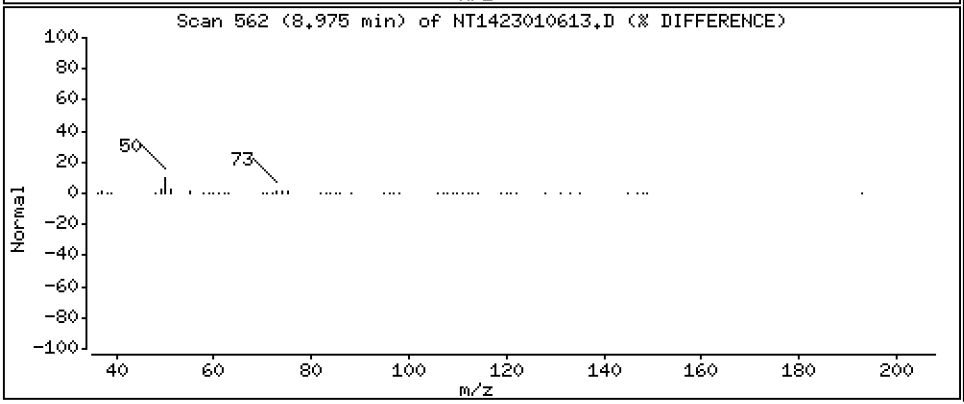
7 1,3-Dichlorobenzene

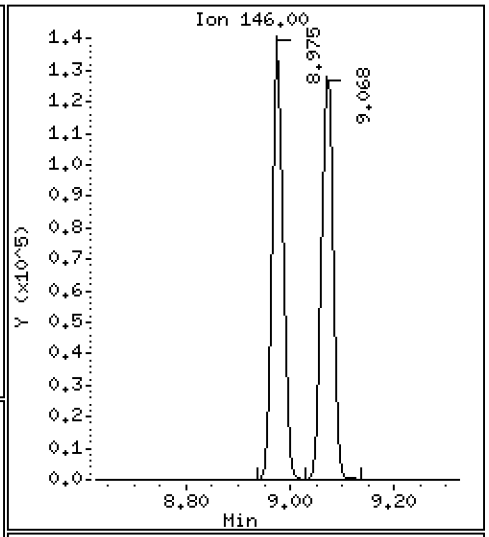
Concentration: 3.749 ug/mL

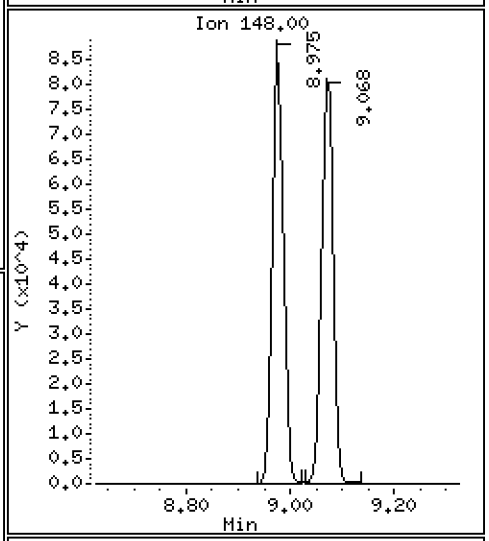


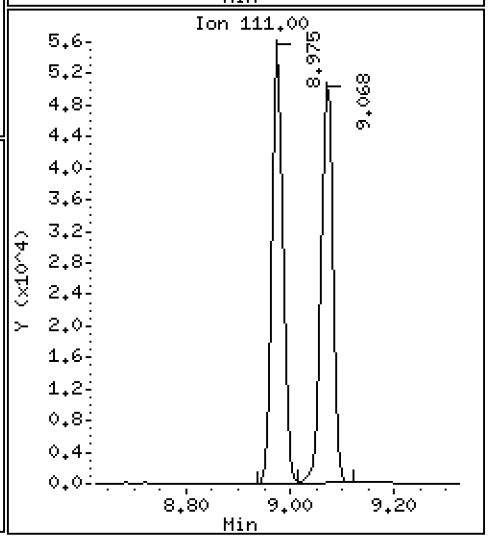












Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

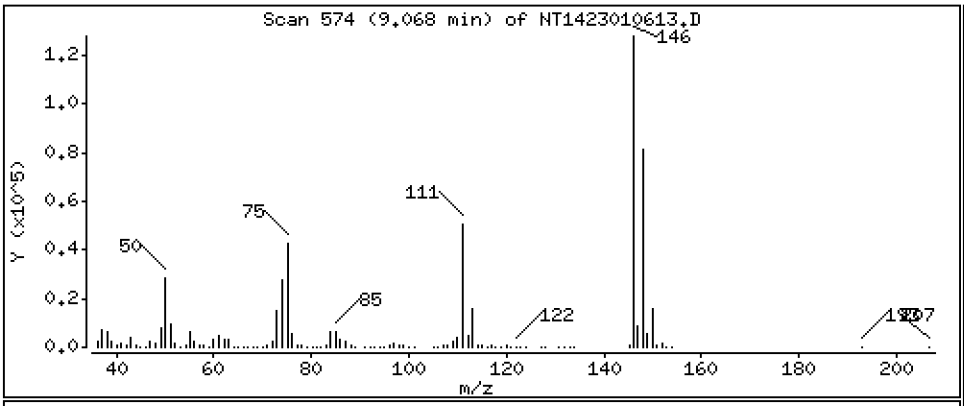
Operator: VTS

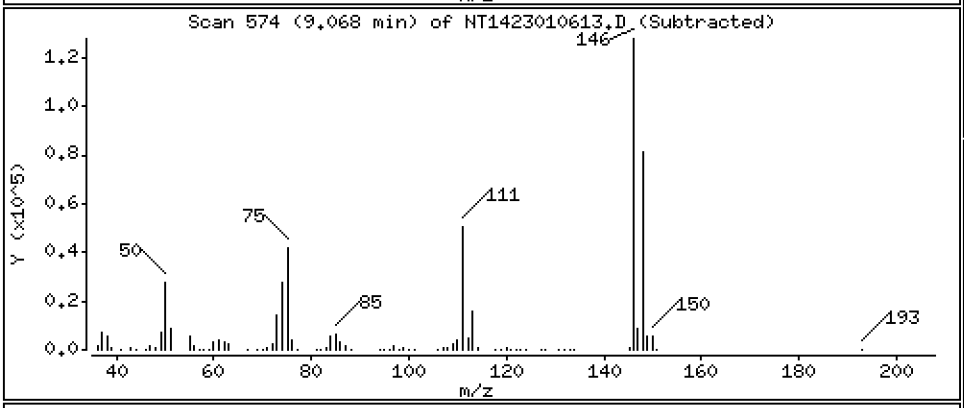
Column phase: ZB-5msi

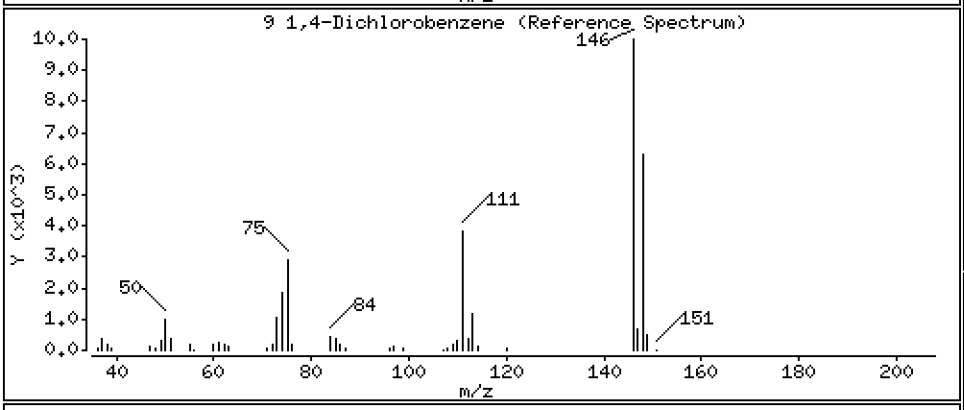
Column diameter: 0.25

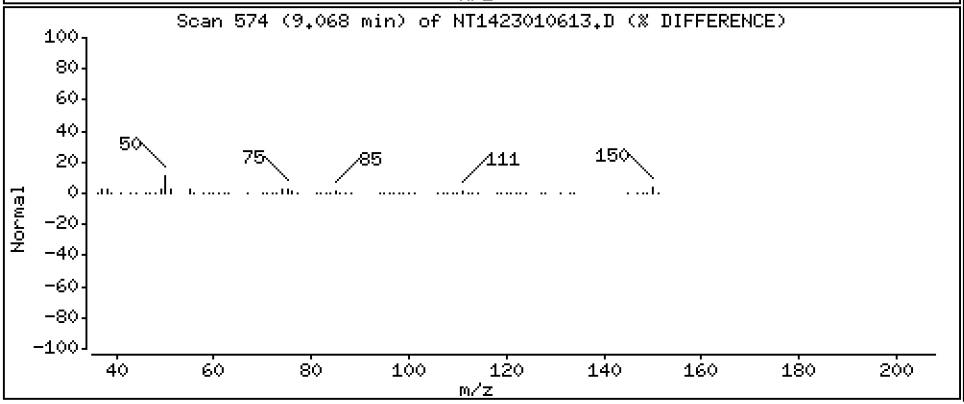
9 1,4-Dichlorobenzene

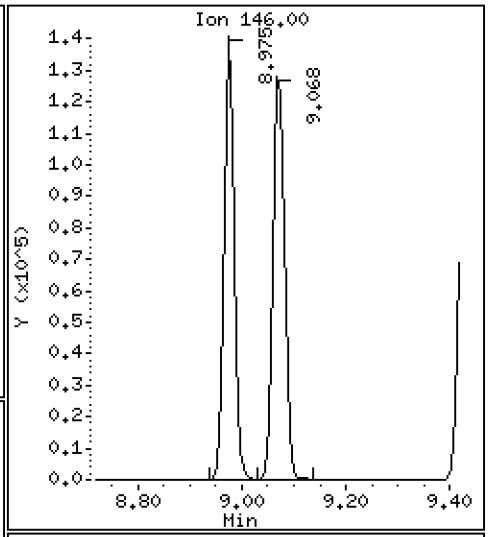
Concentration: 3.852 ug/mL

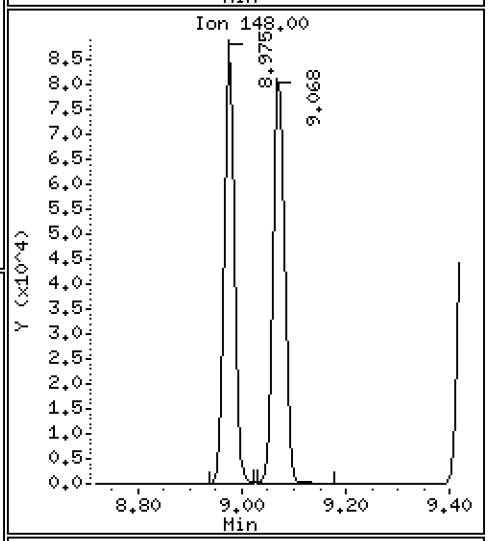


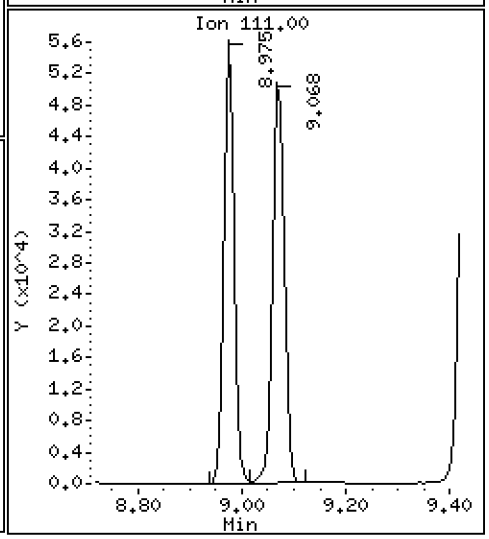












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

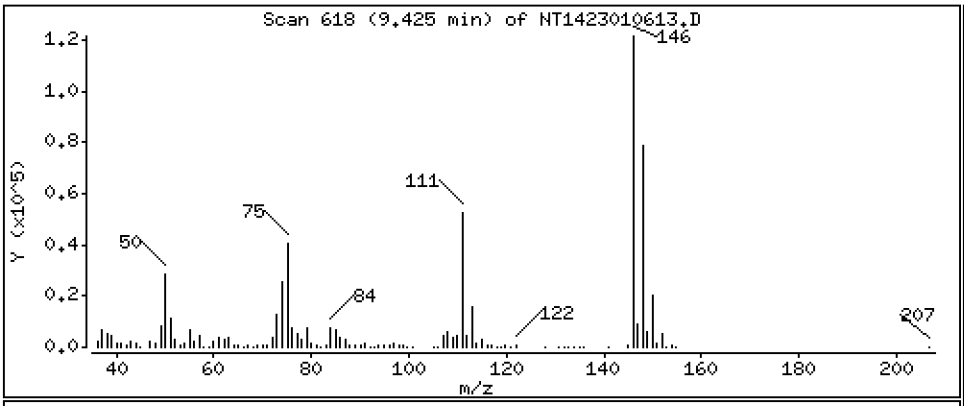
Operator: VTS

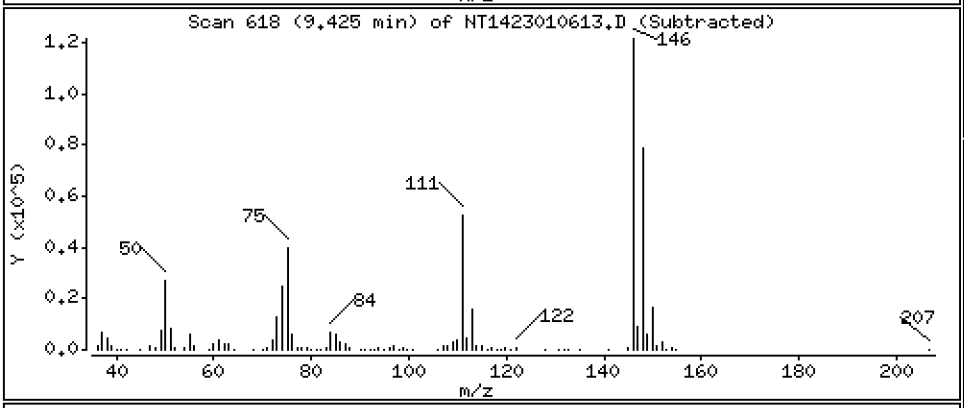
Column phase: ZB-5msi

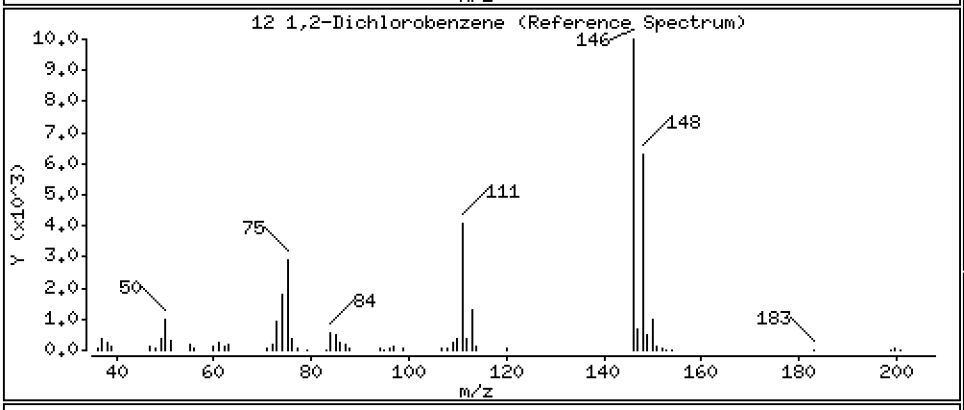
Column diameter: 0.25

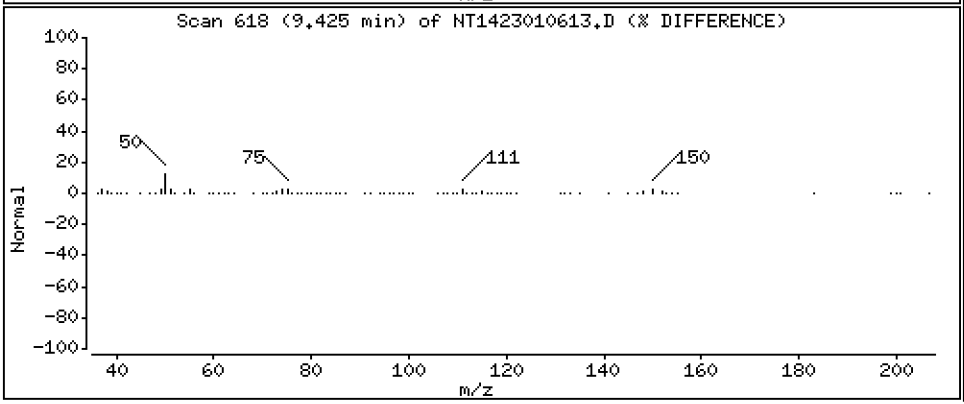
12 1,2-Dichlorobenzene

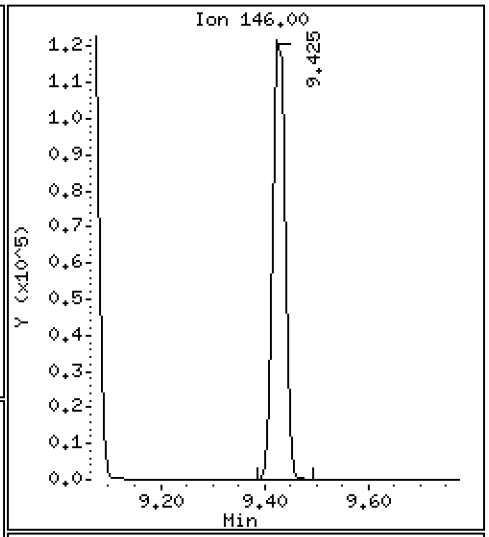
Concentration: 3.883 ug/mL

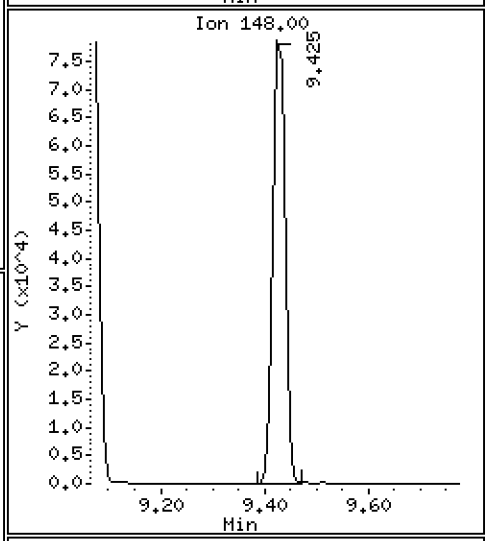


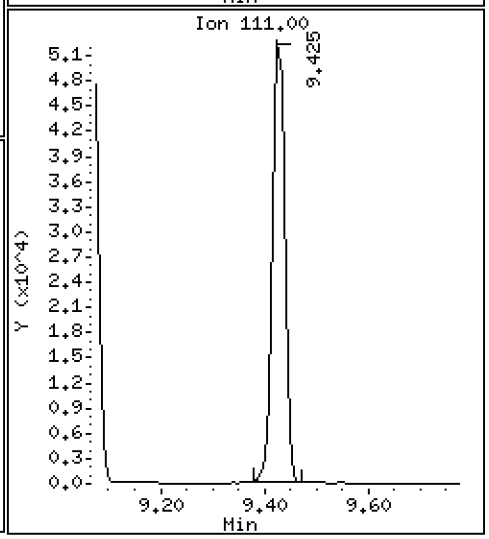












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

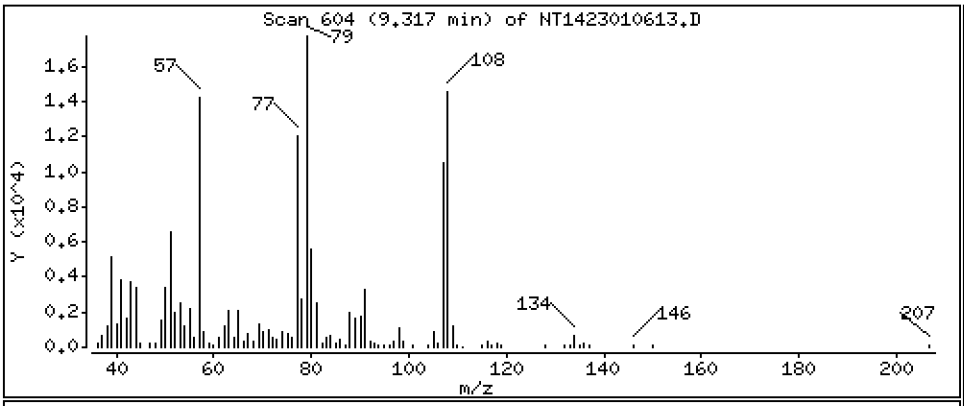
Operator: VTS

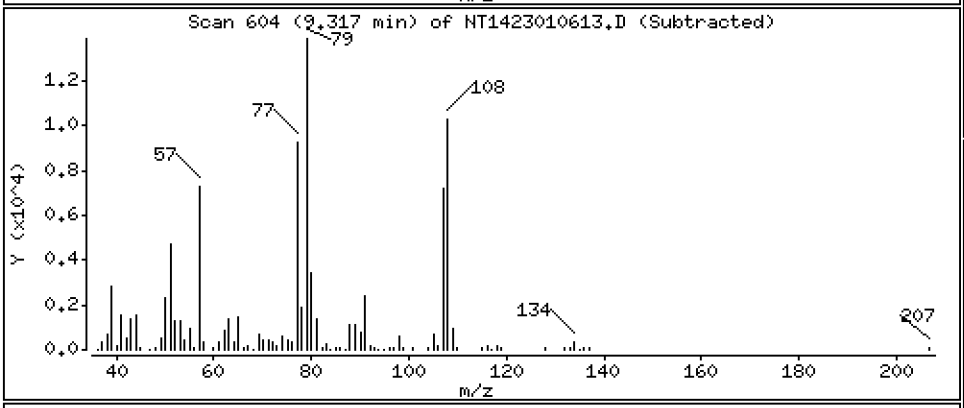
Column phase: ZB-5msi

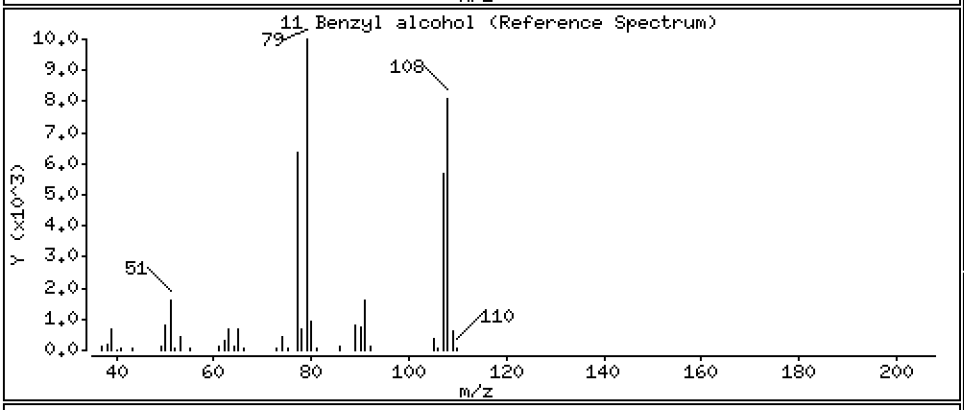
Column diameter: 0.25

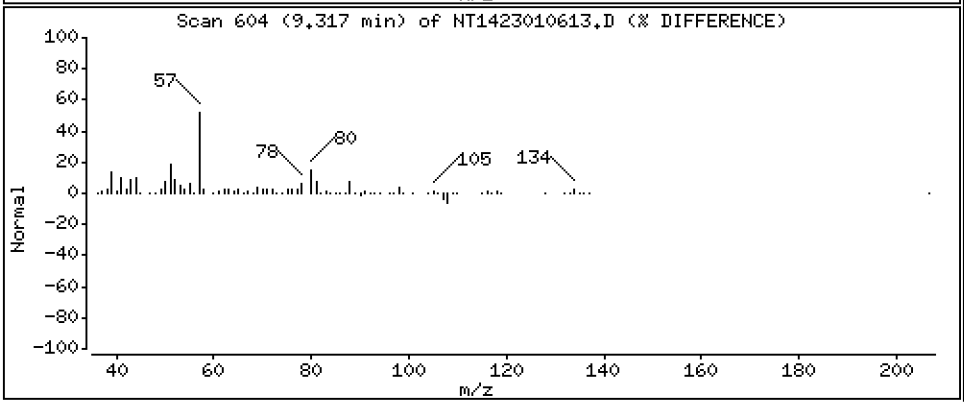
11 Benzyl alcohol

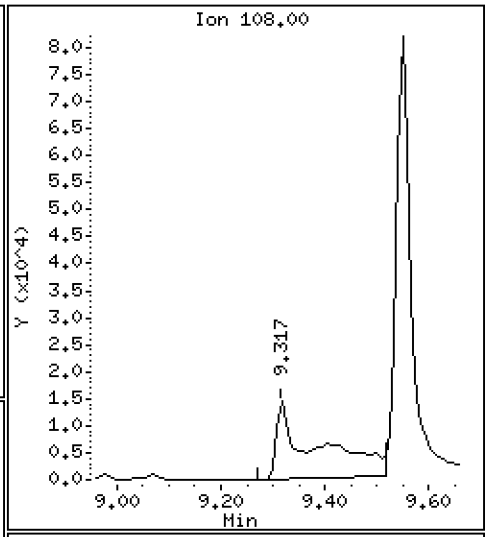
Concentration: 2.785 ug/mL

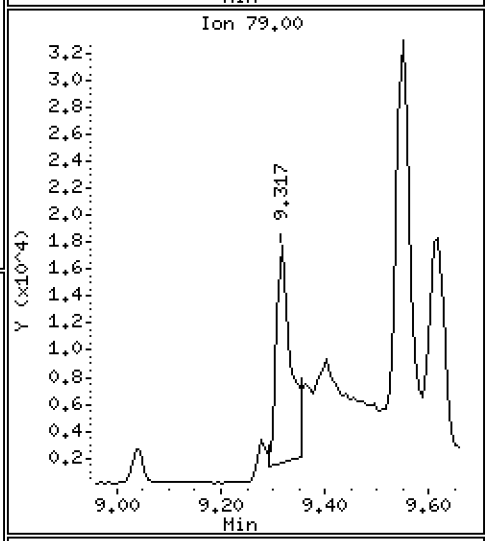


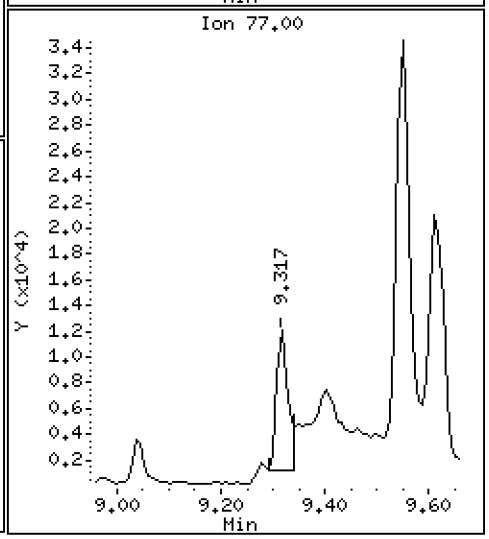












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

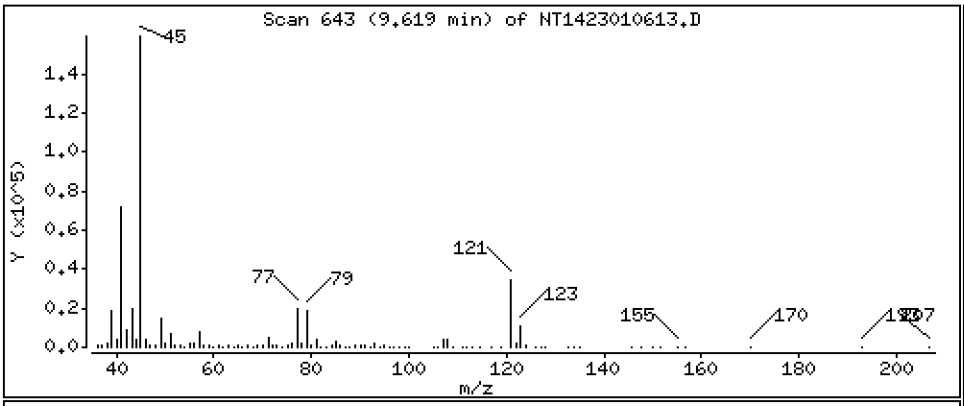
Operator: VTS

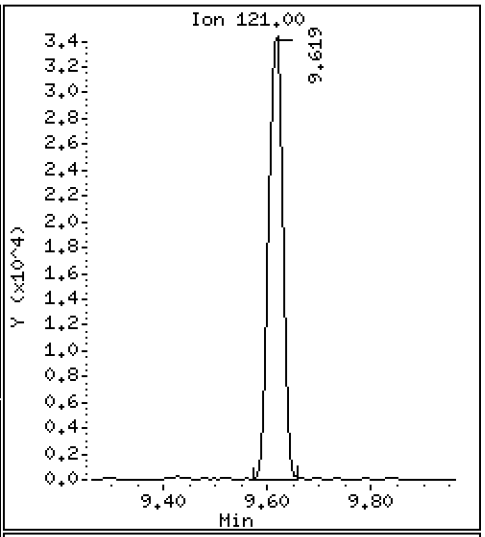
Column phase: ZB-5msi

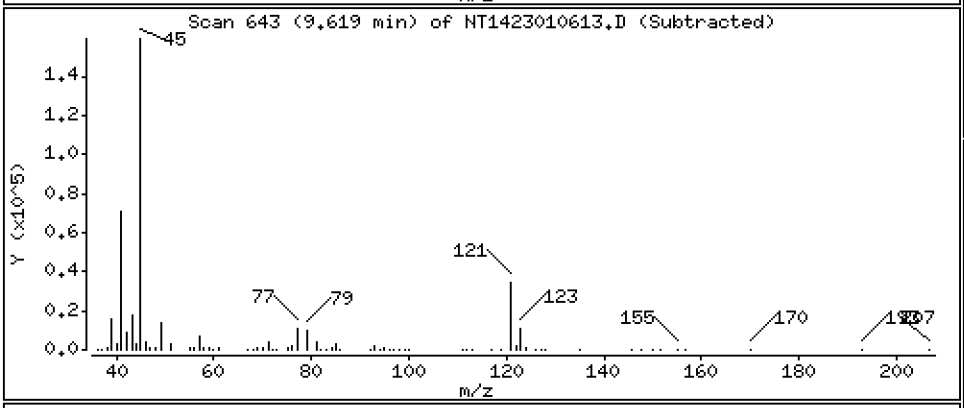
Column diameter: 0.25

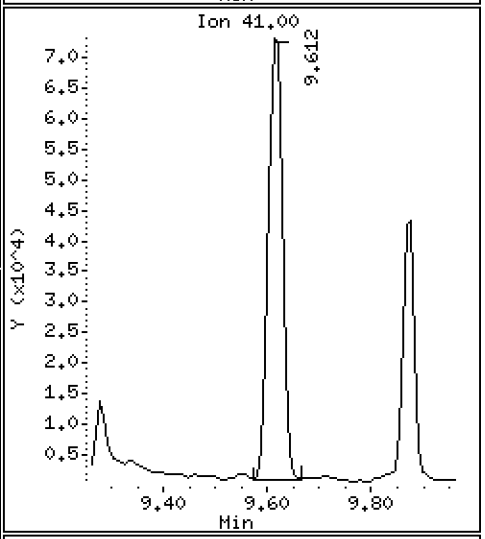
14 2,2'-oxybis(1-Chloropropane)

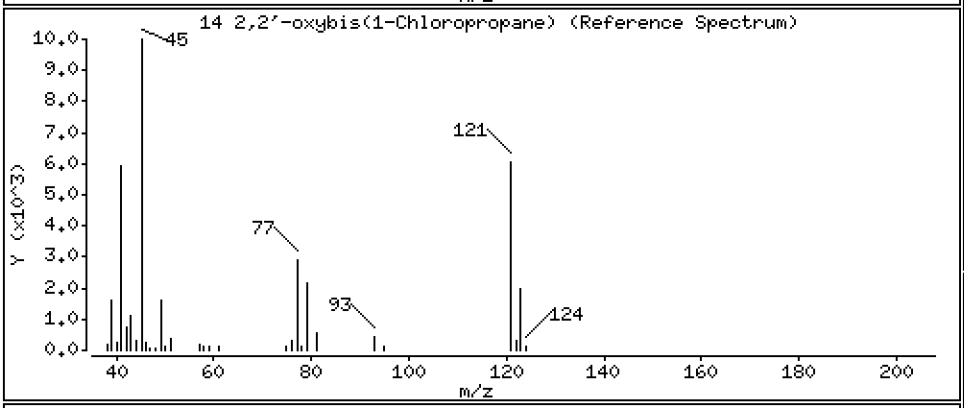
Concentration: 4.441 ug/mL

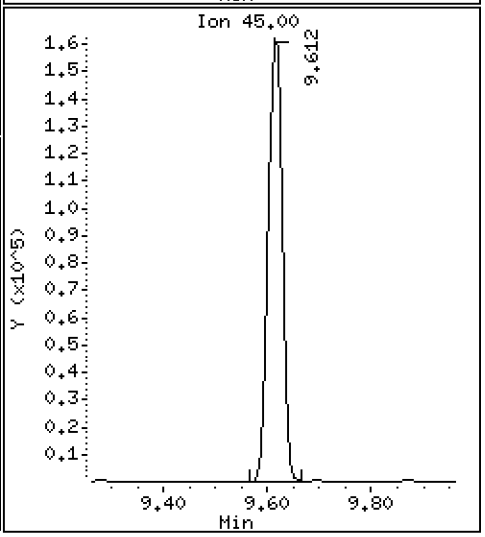


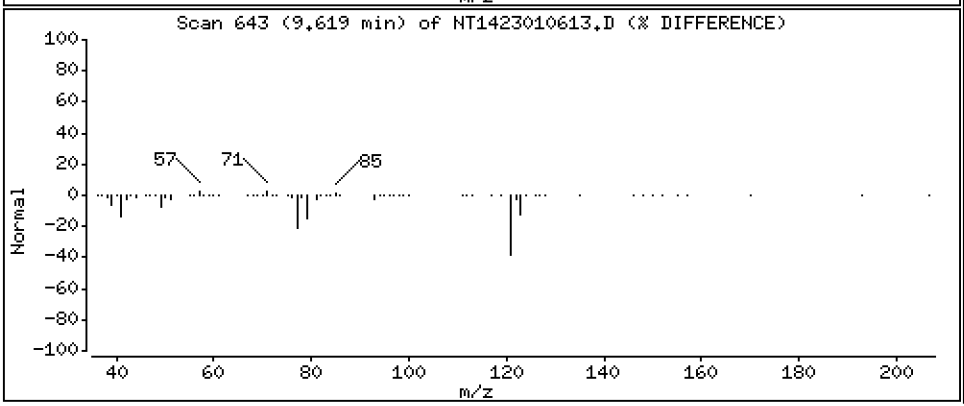












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

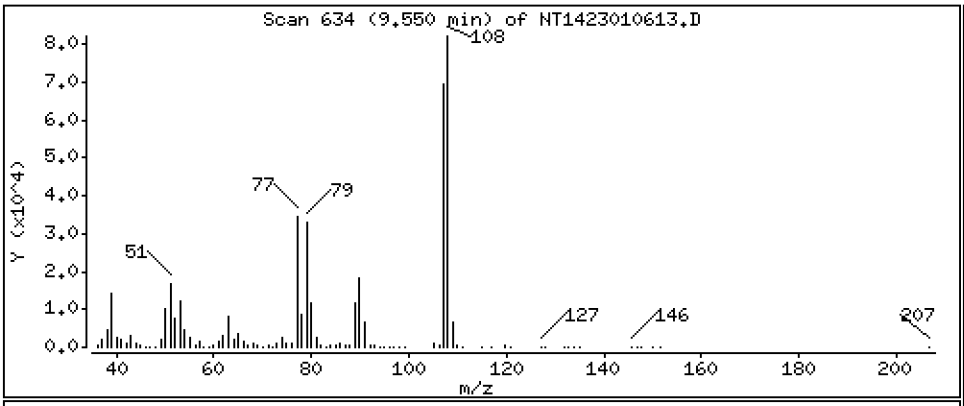
Operator: VTS

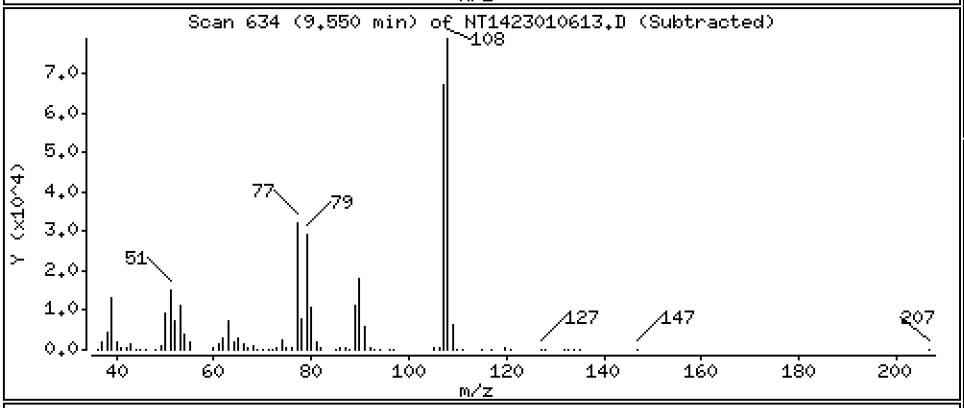
Column phase: ZB-5msi

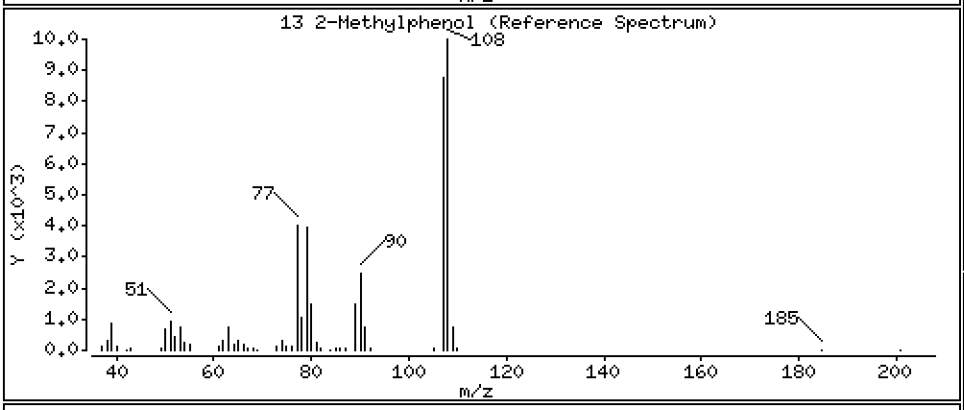
Column diameter: 0.25

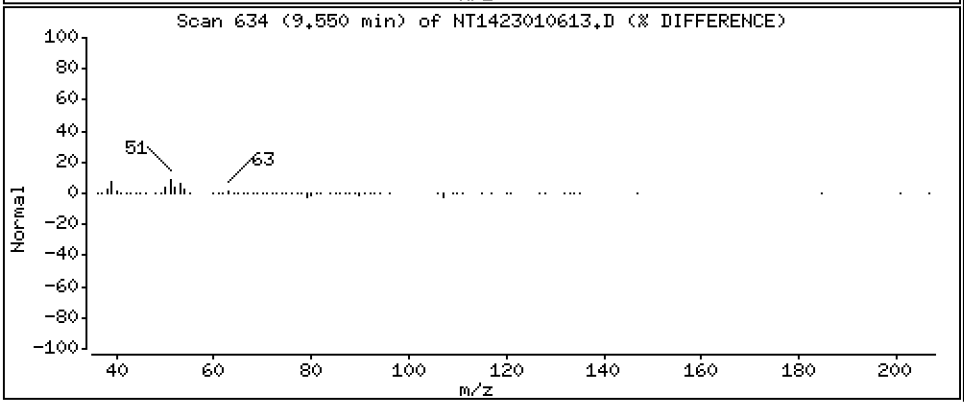
13 2-Methylphenol

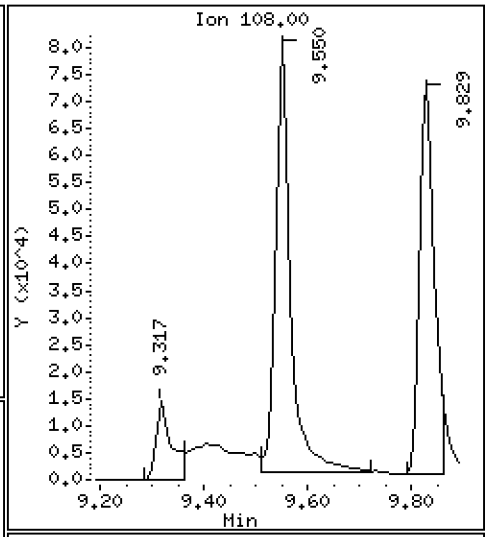
Concentration: 3.763 ug/mL

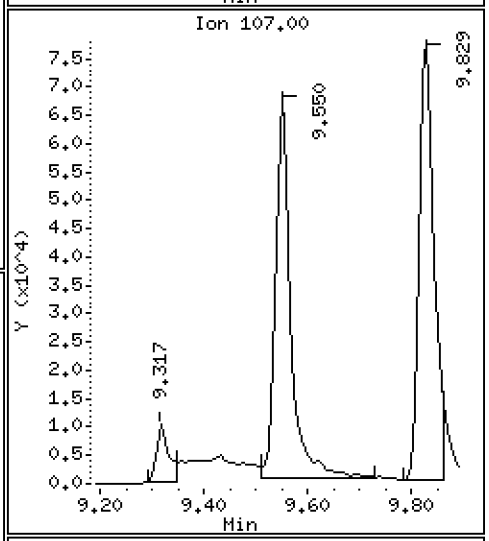


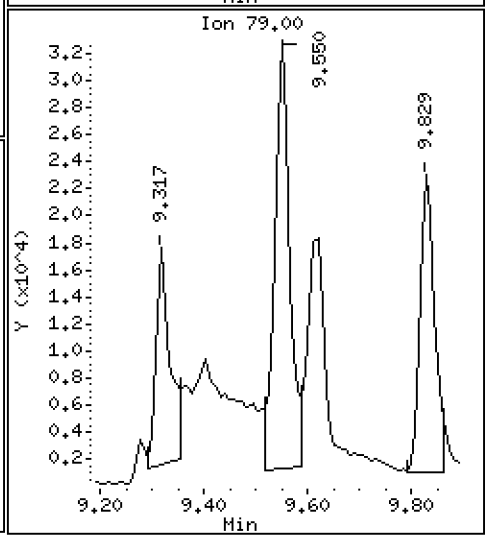












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

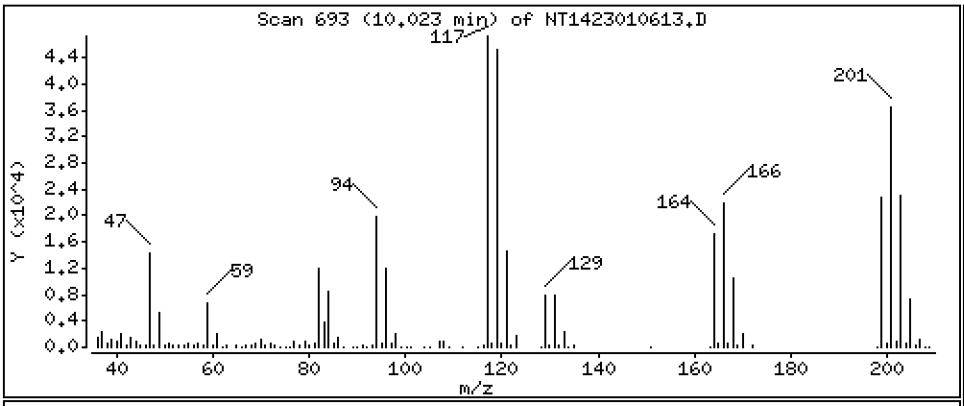
Operator: VTS

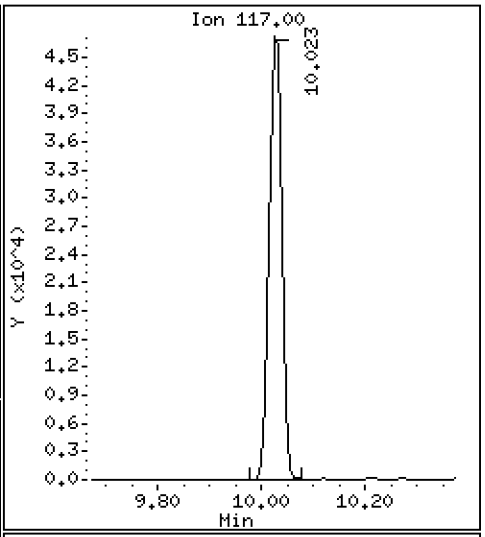
Column phase: ZB-5msi

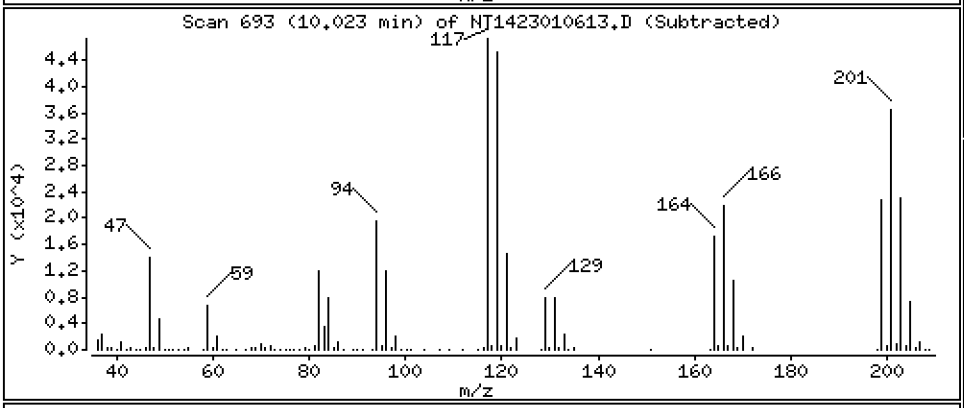
Column diameter: 0.25

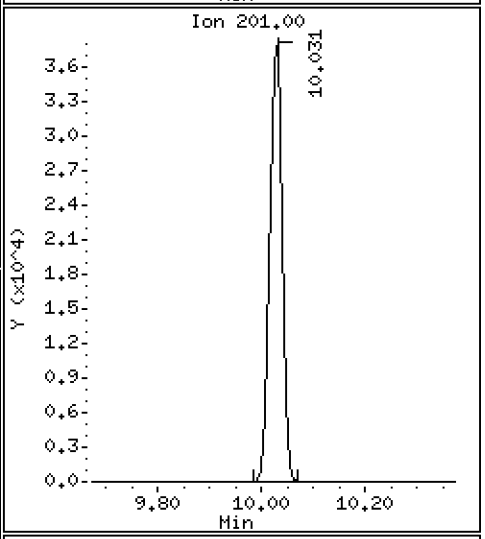
17 Hexachloroethane

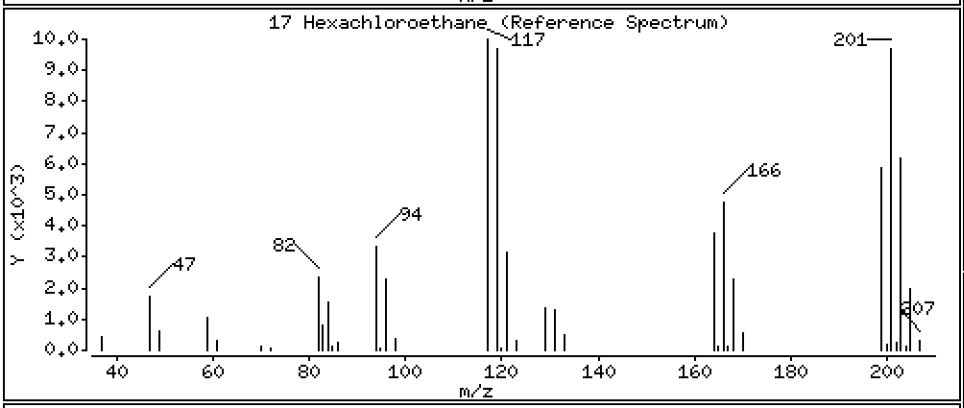
Concentration: 4.211 ug/mL

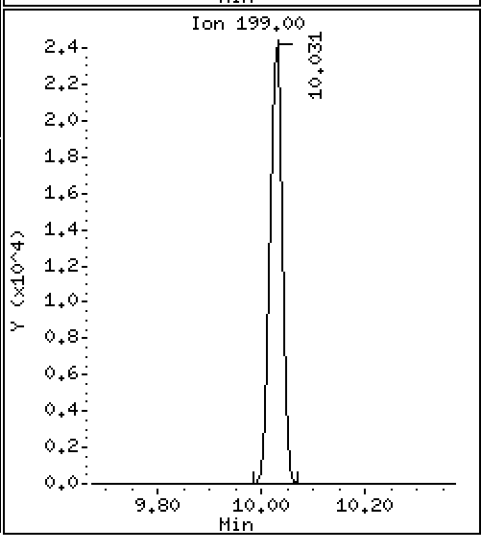


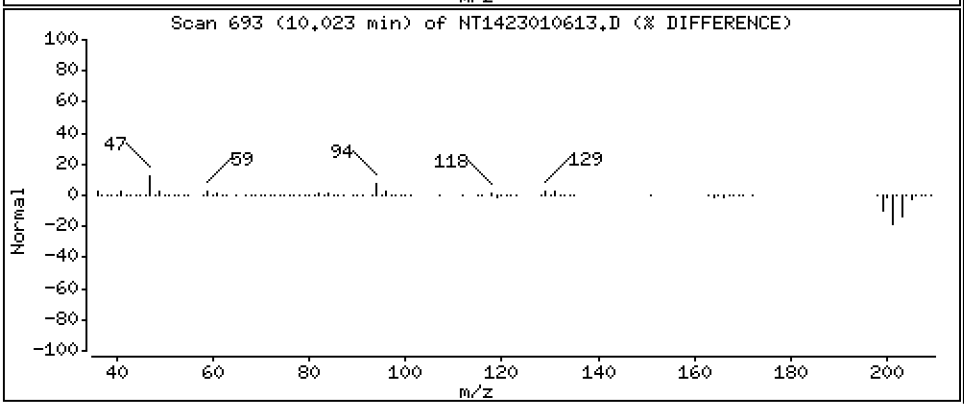












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

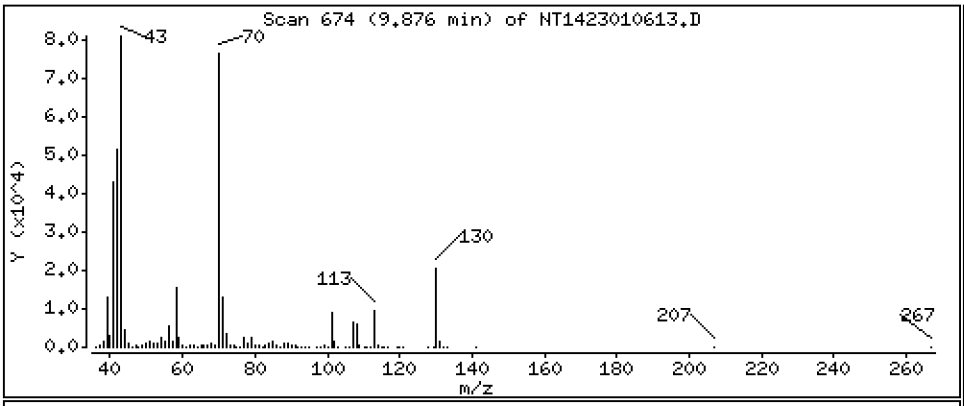
Operator: VTS

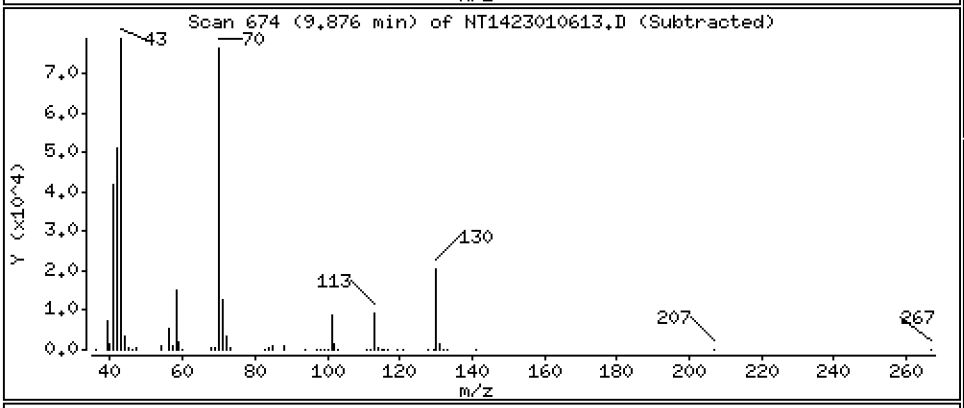
Column phase: ZB-5msi

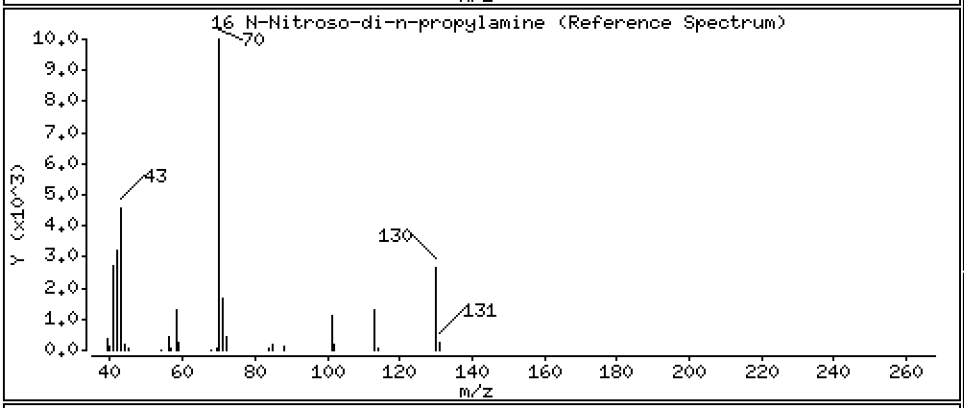
Column diameter: 0.25

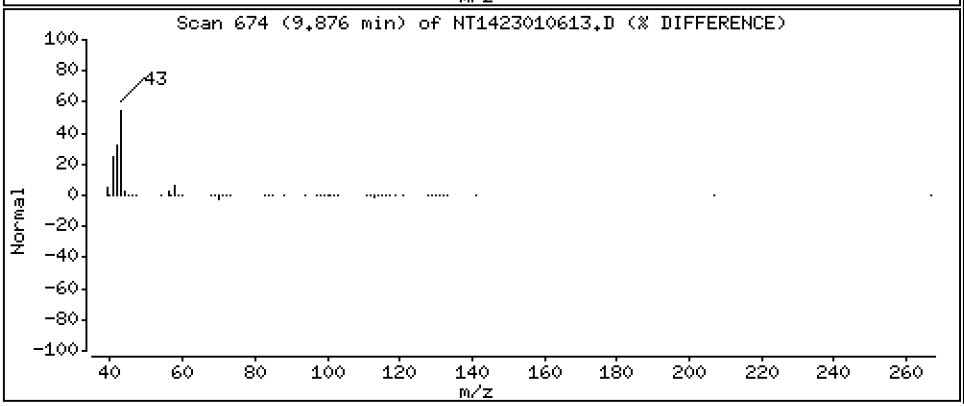
16 N-Nitroso-di-n-propylamine

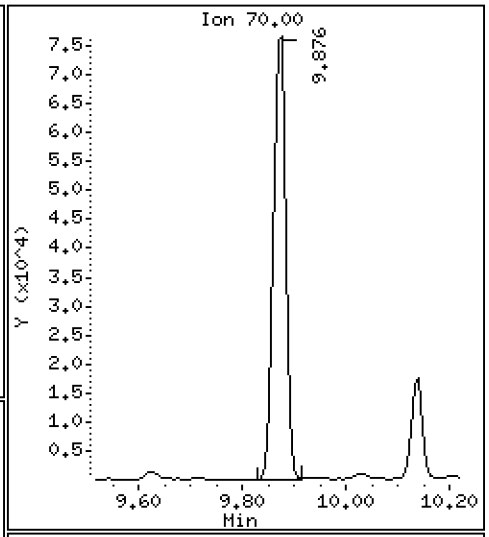
Concentration: 4.468 ug/mL

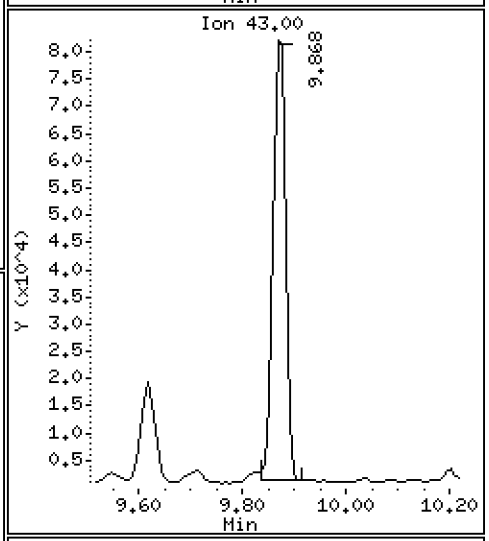


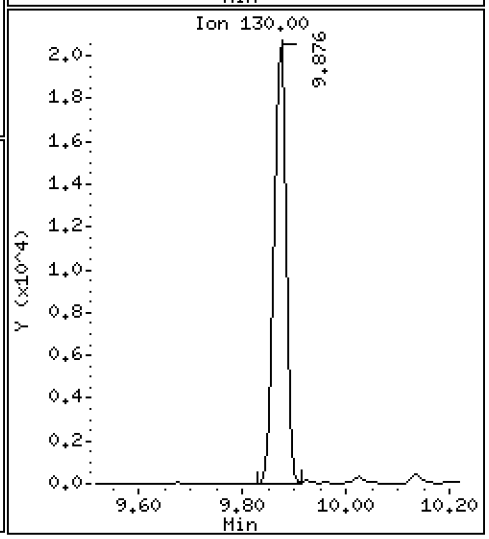












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

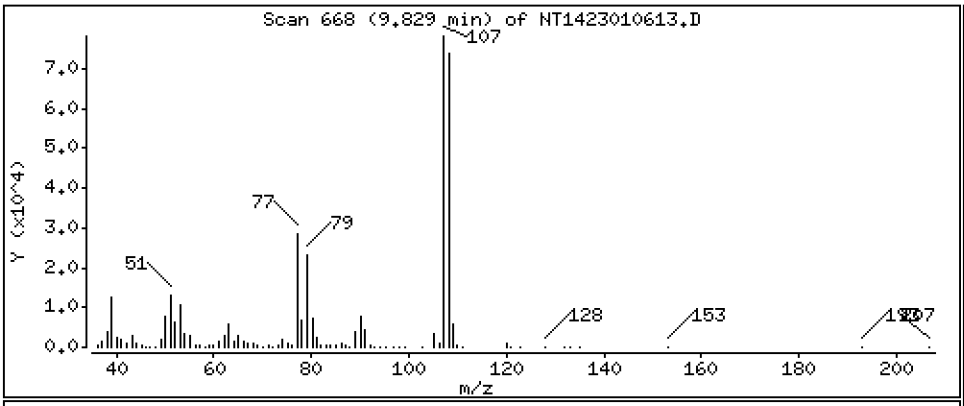
Operator: VTS

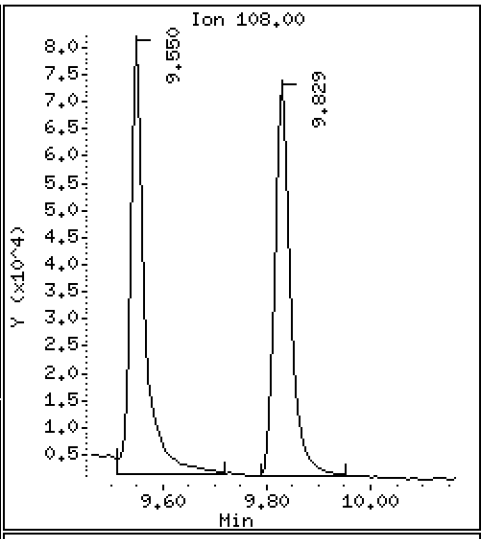
Column phase: ZB-5msi

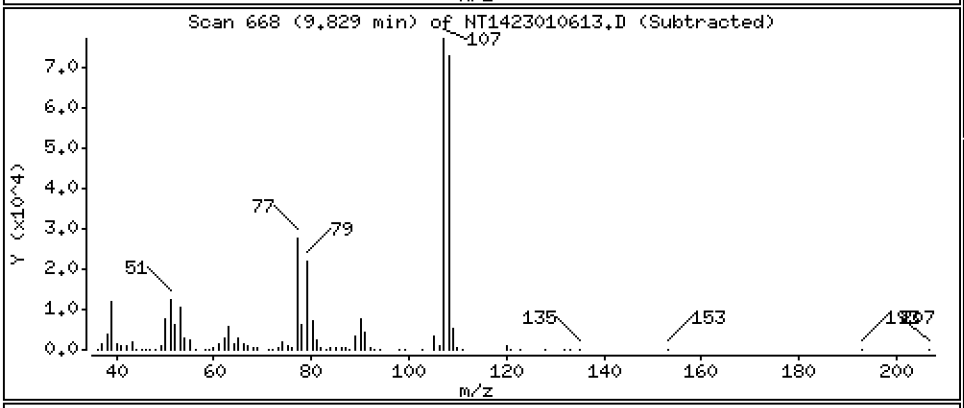
Column diameter: 0.25

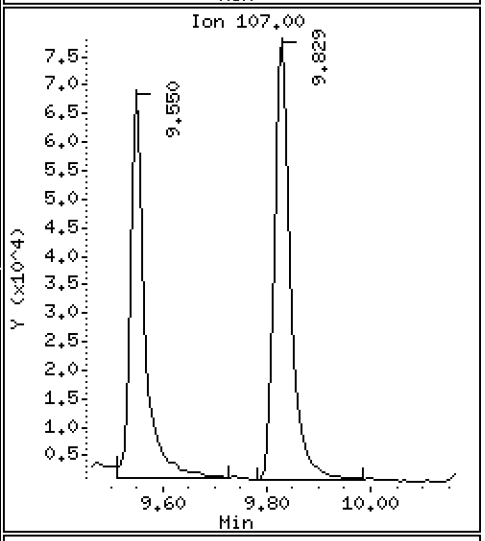
15 4-Methylphenol

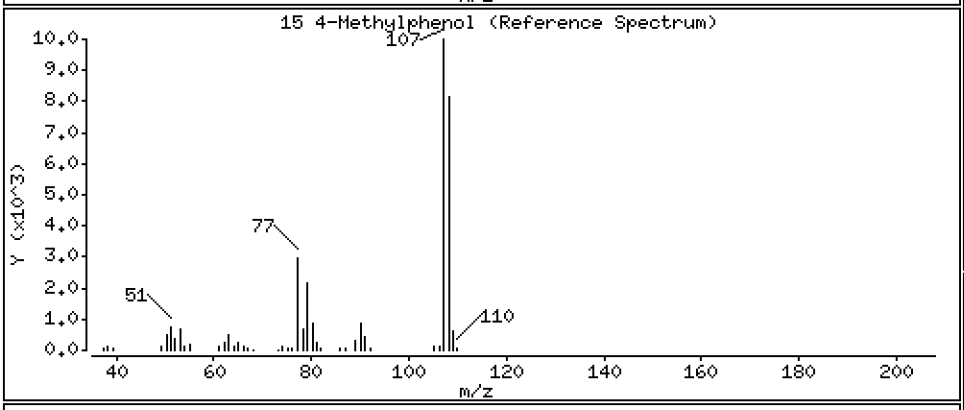
Concentration: 3.324 ug/mL

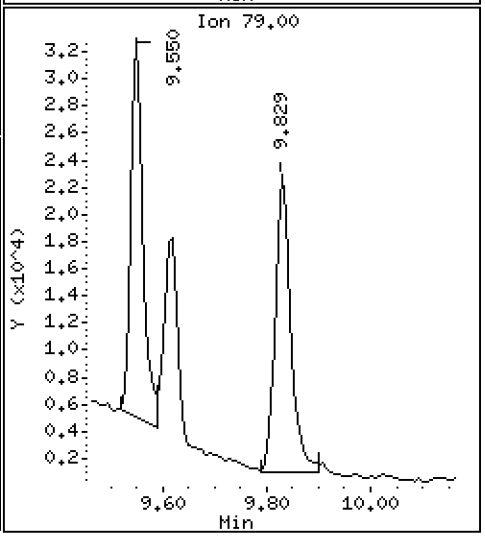


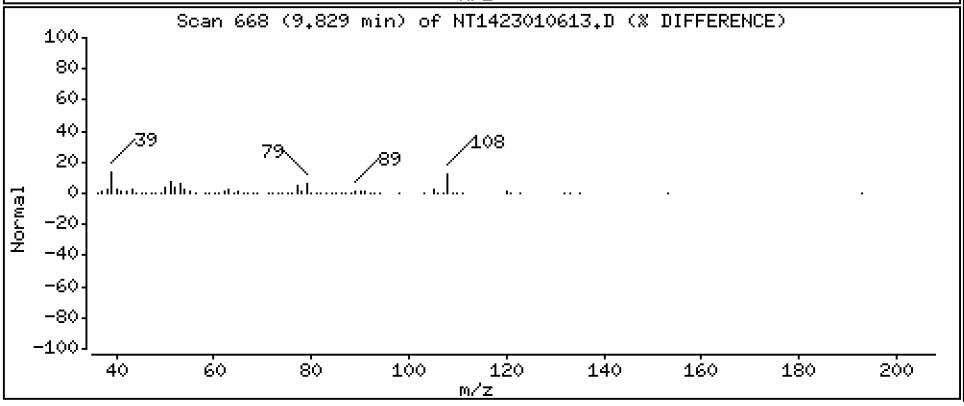












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

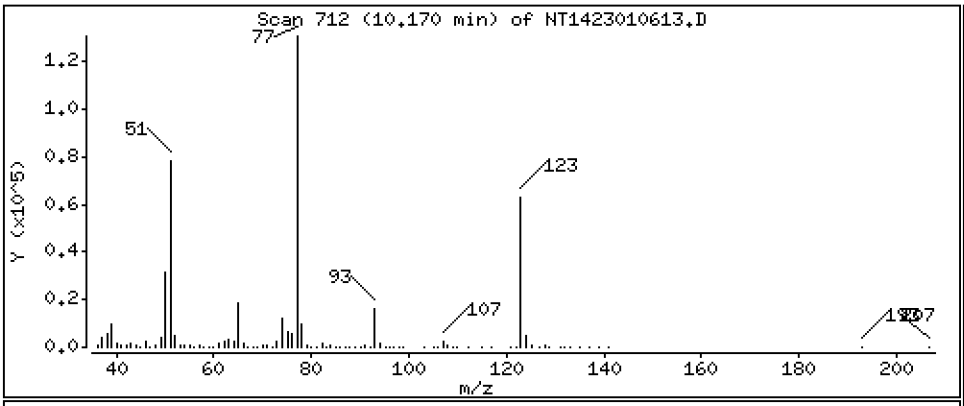
Operator: VTS

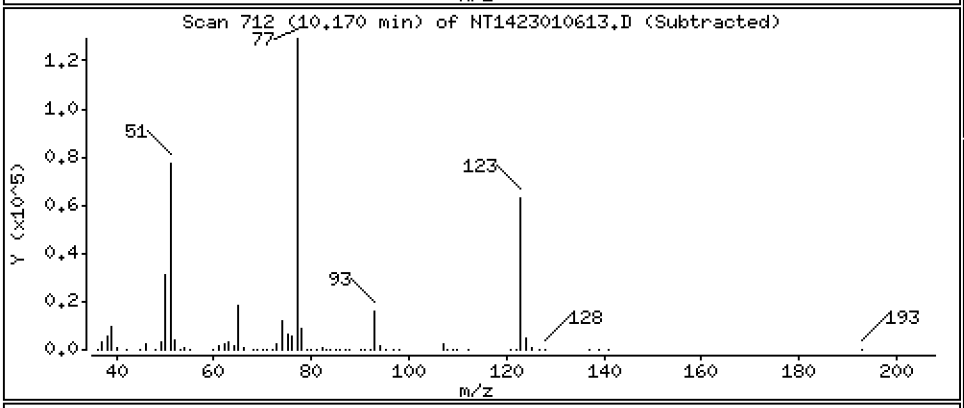
Column phase: ZB-5msi

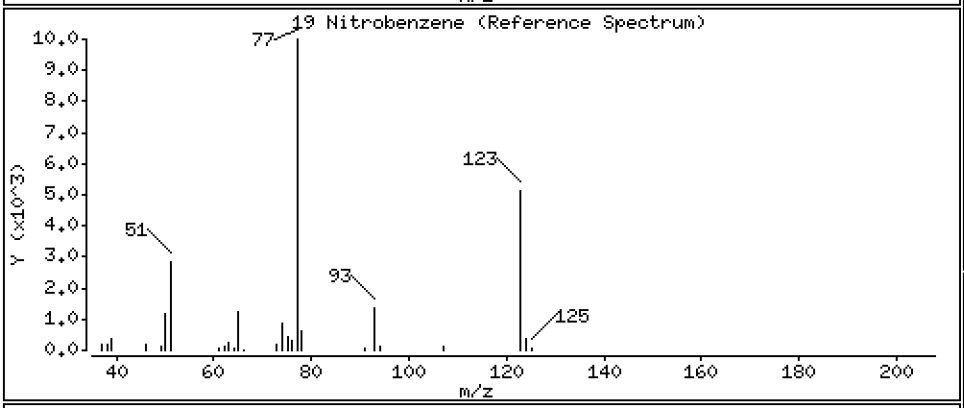
Column diameter: 0.25

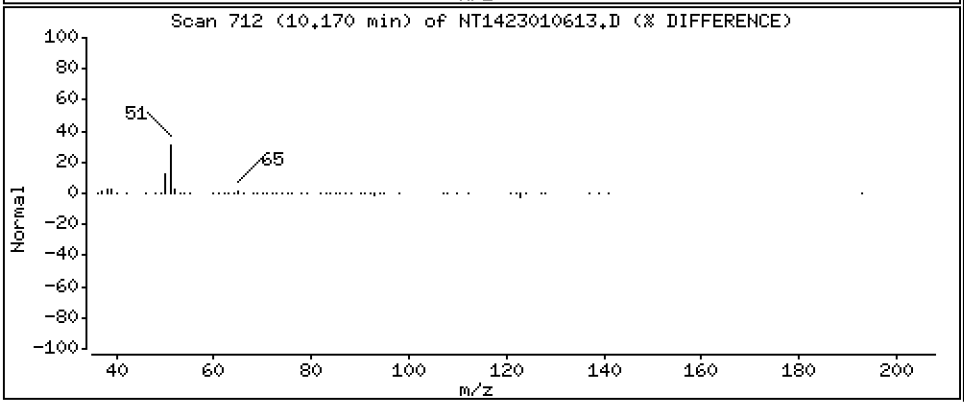
19 Nitrobenzene

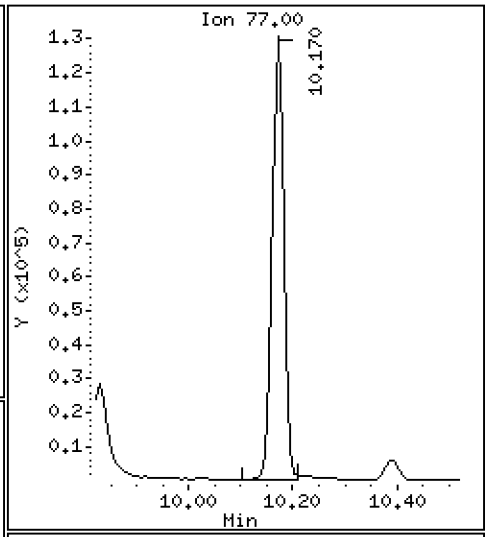
Concentration: 4.502 ug/mL

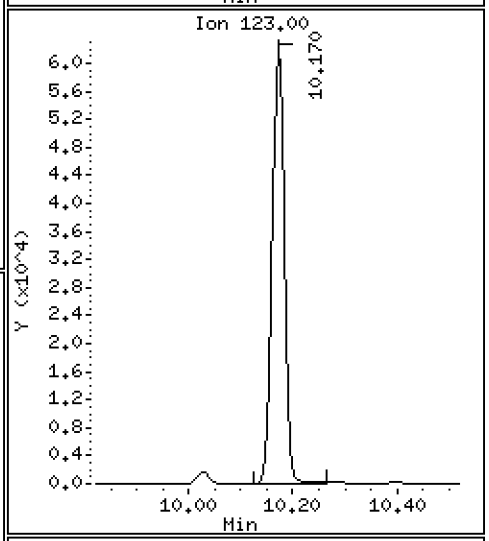


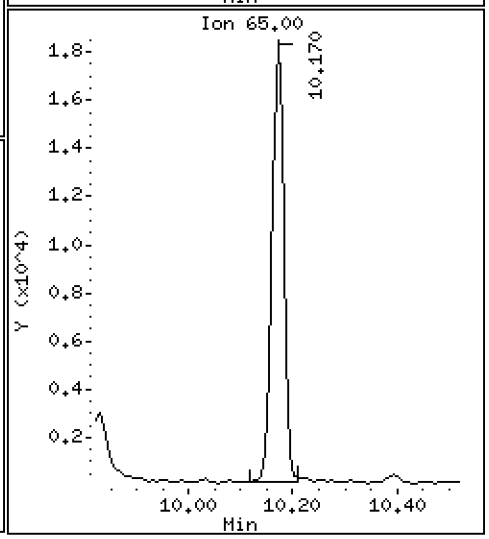












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

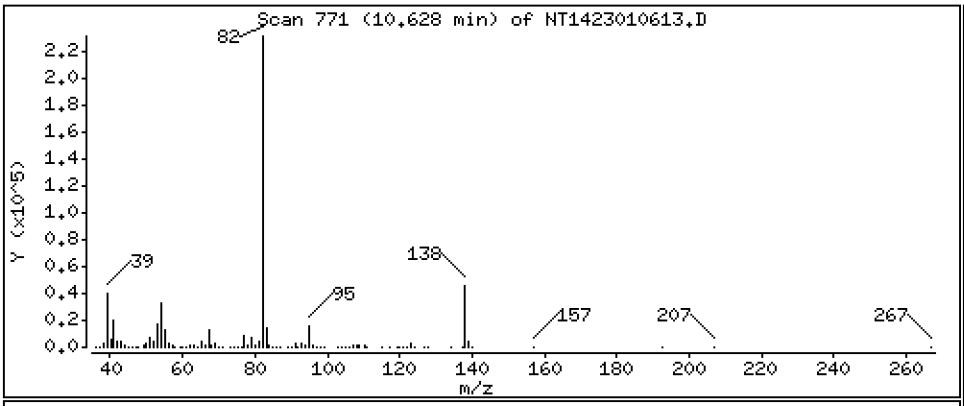
Operator: VTS

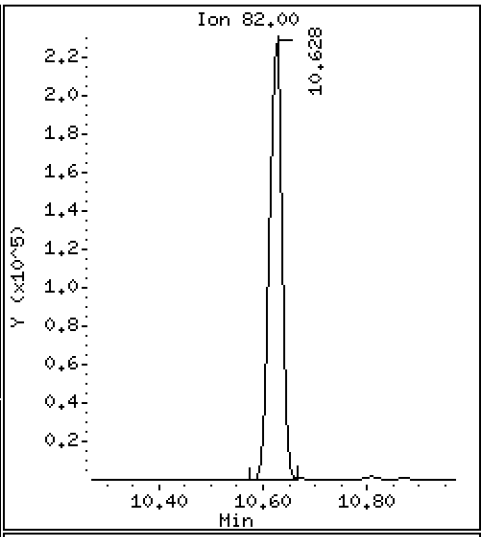
Column phase: ZB-5msi

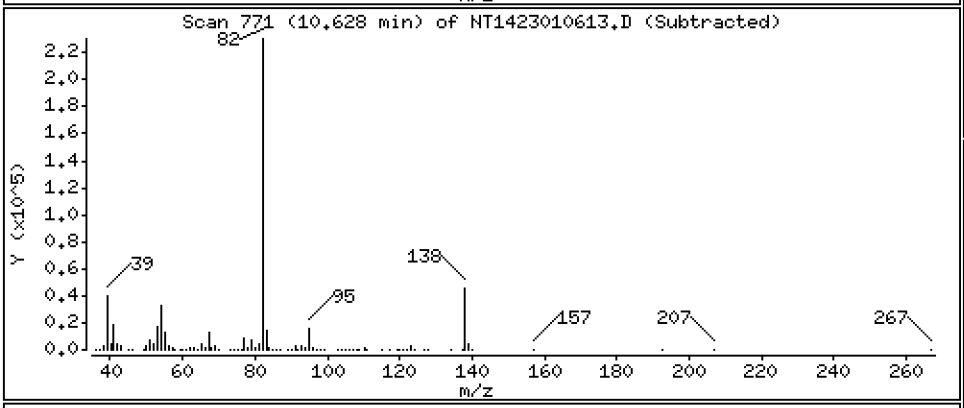
Column diameter: 0.25

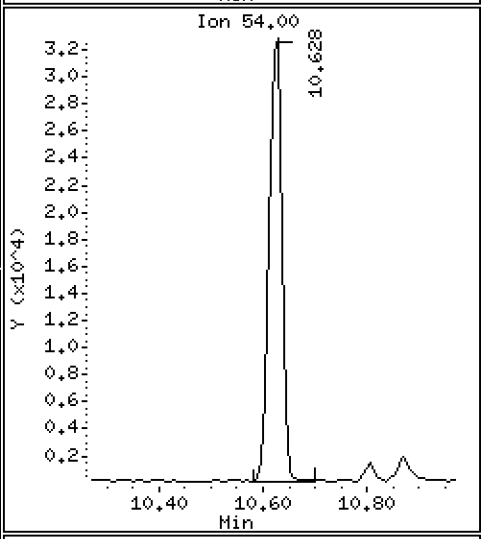
20 Isophorone

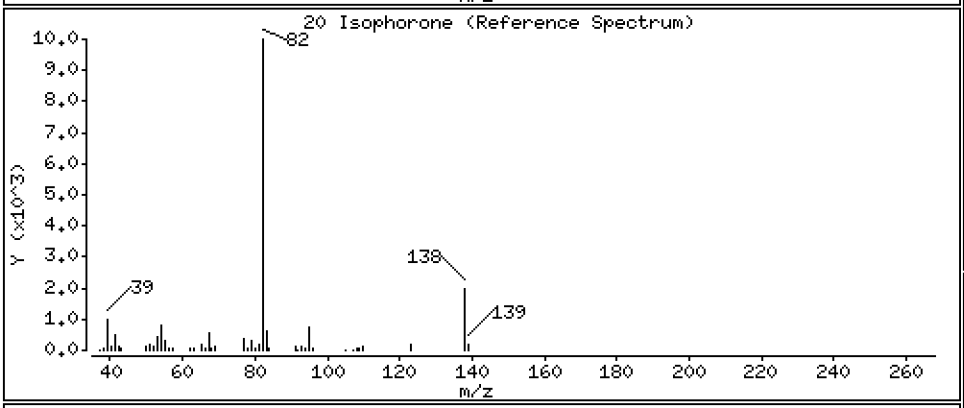
Concentration: 6.783 ug/mL

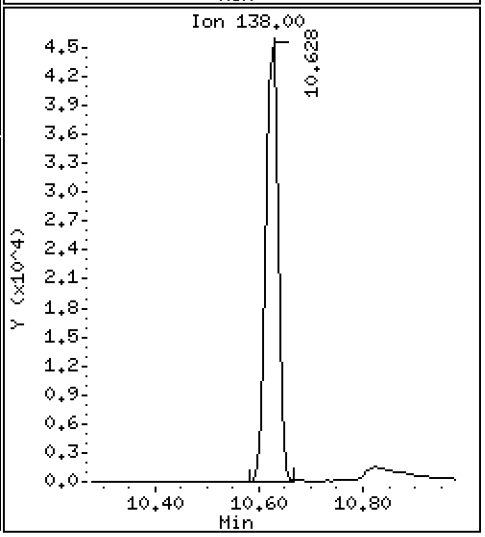


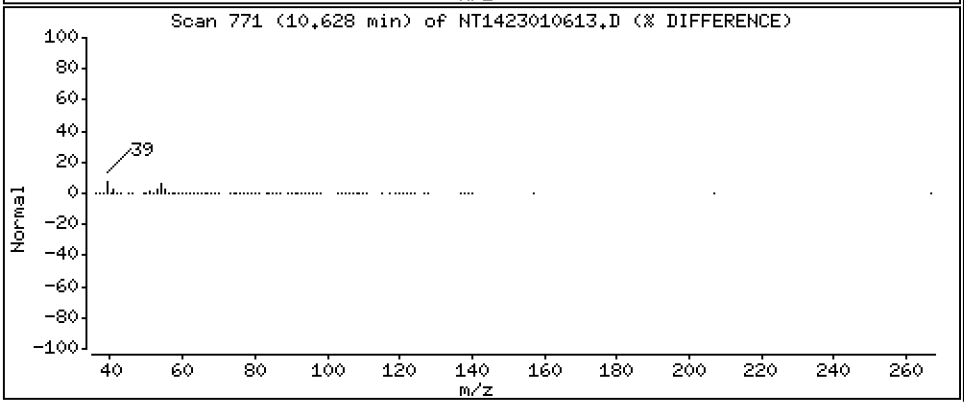












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

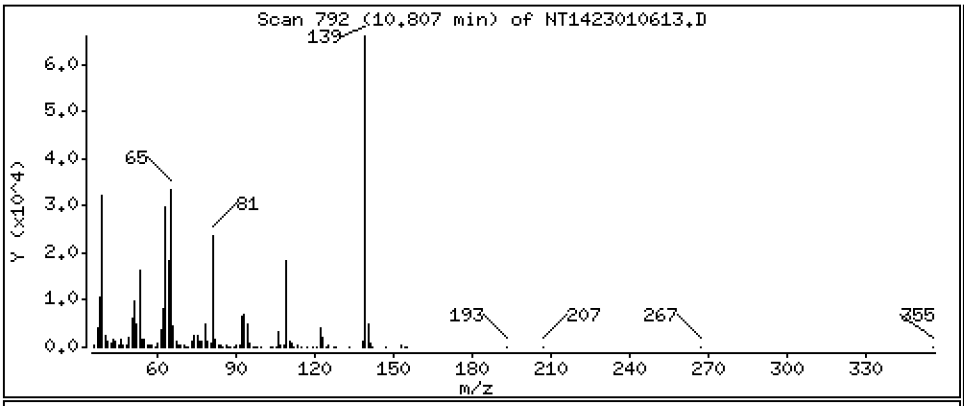
Operator: VTS

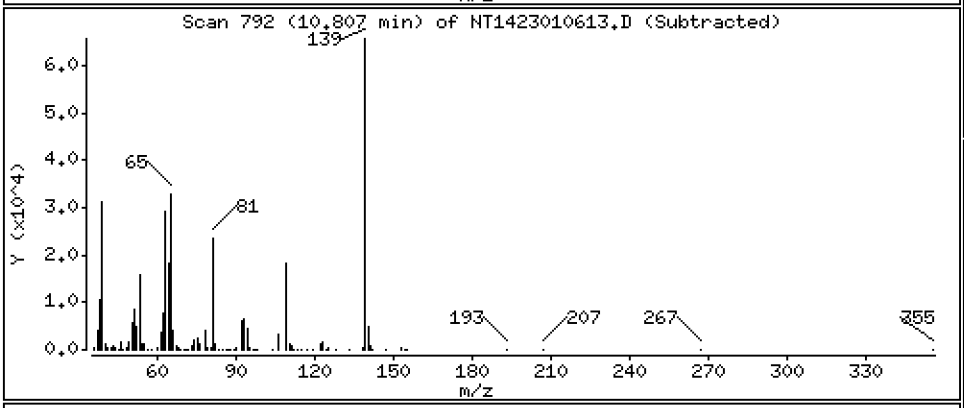
Column phase: ZB-5msi

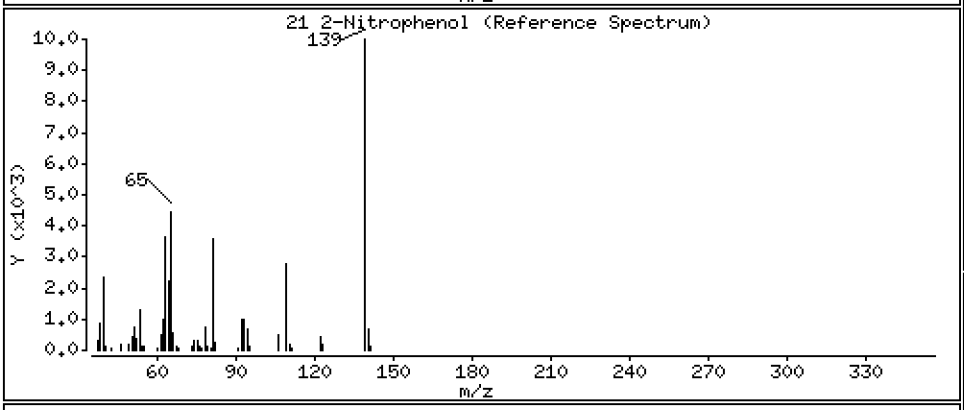
Column diameter: 0.25

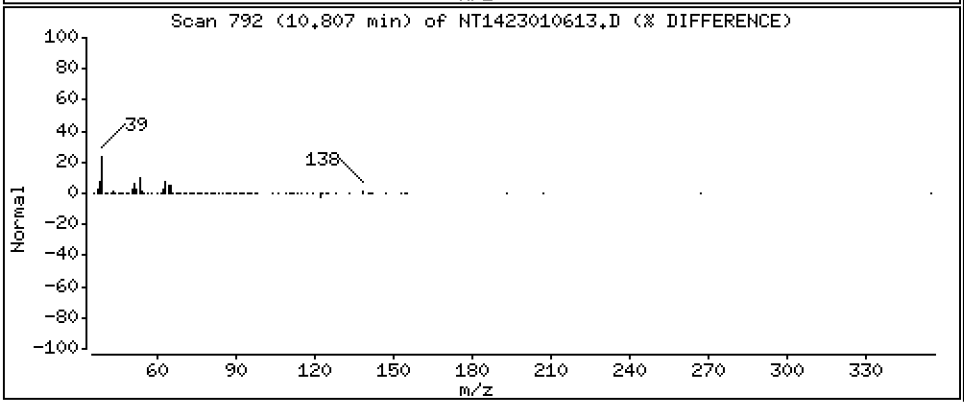
21 2-Nitrophenol

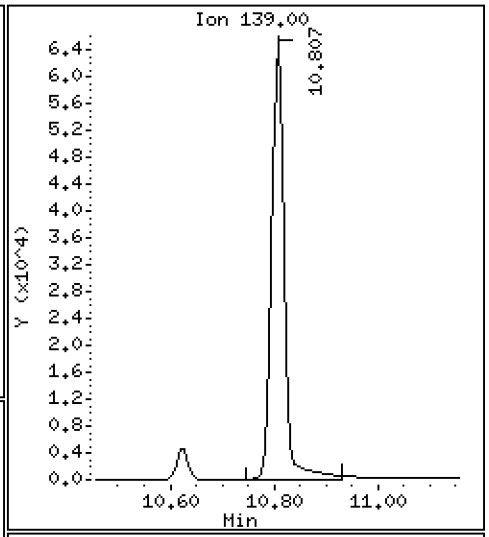
Concentration: 4.244 ug/mL

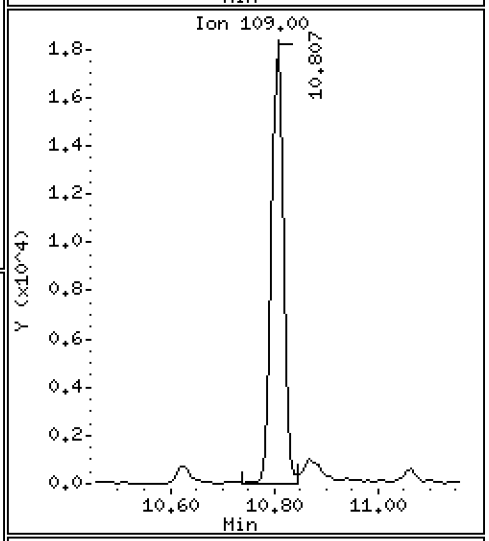


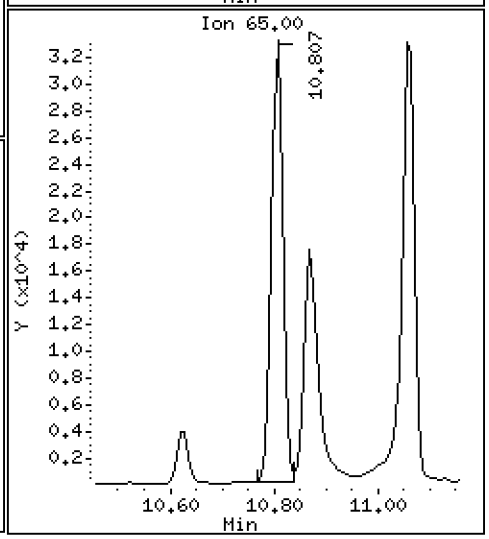












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

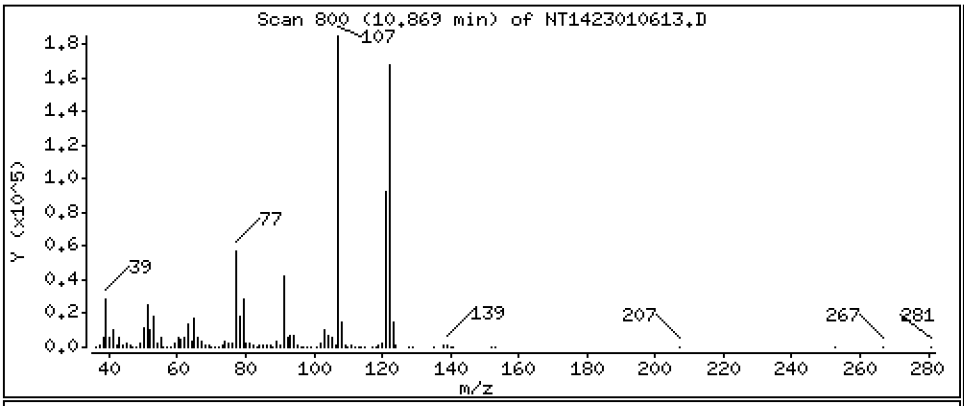
Operator: VTS

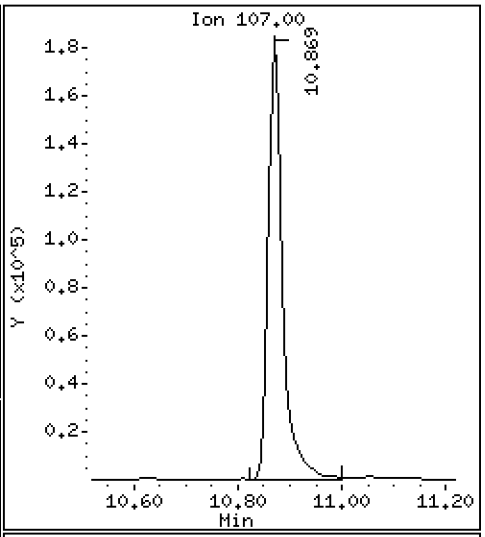
Column phase: ZB-5msi

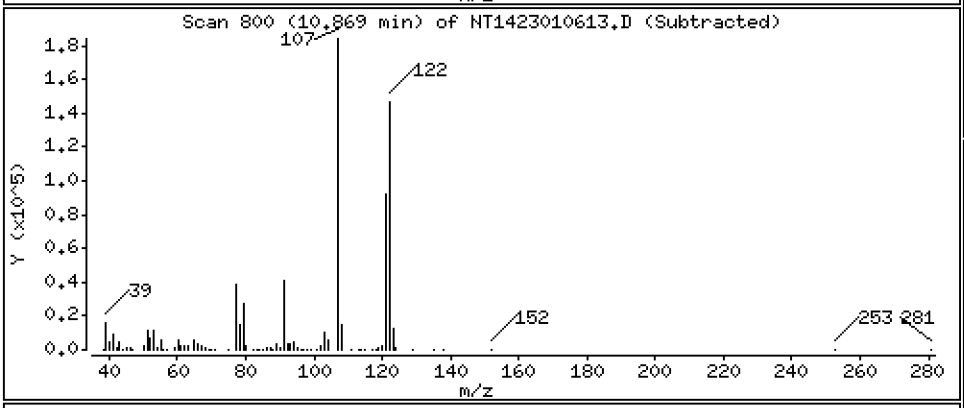
Column diameter: 0.25

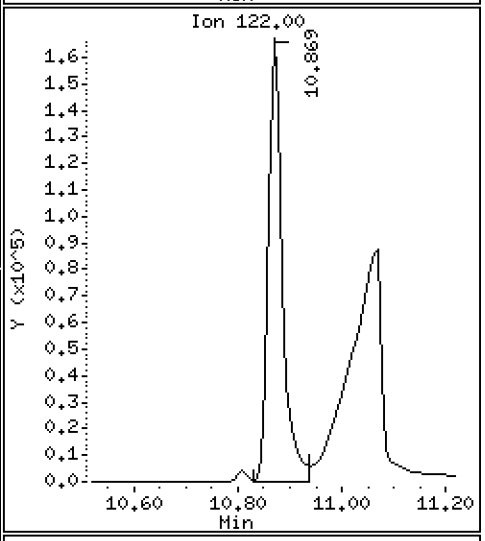
22 2,4-Dimethylphenol

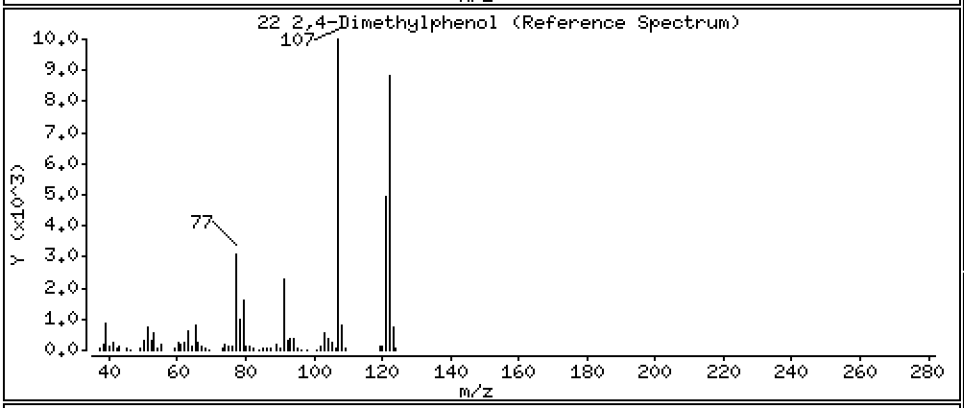
Concentration: 7.657 ug/mL

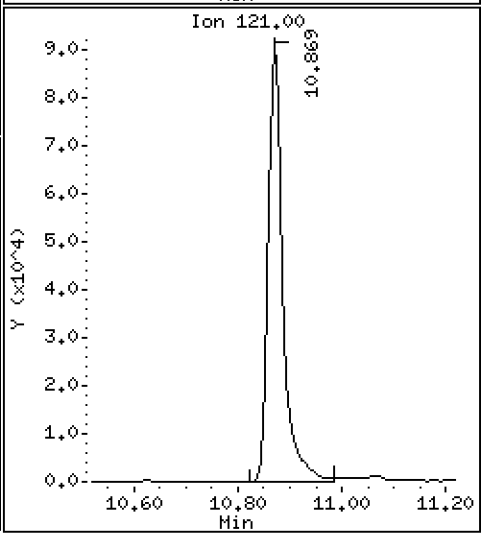


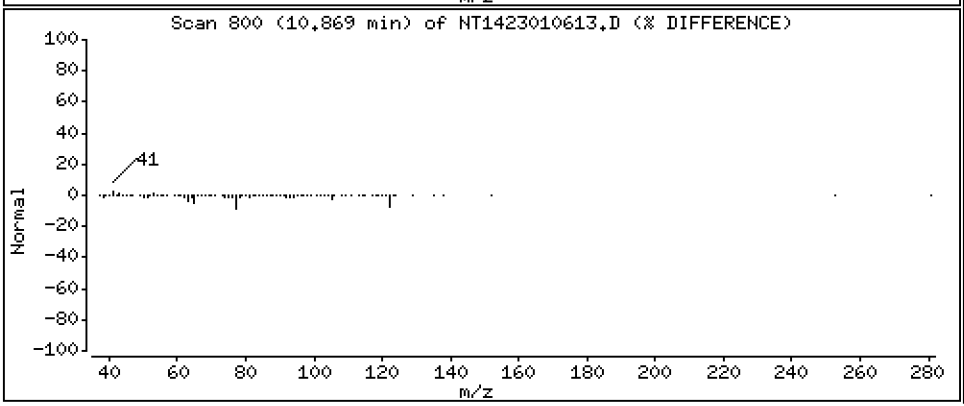












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

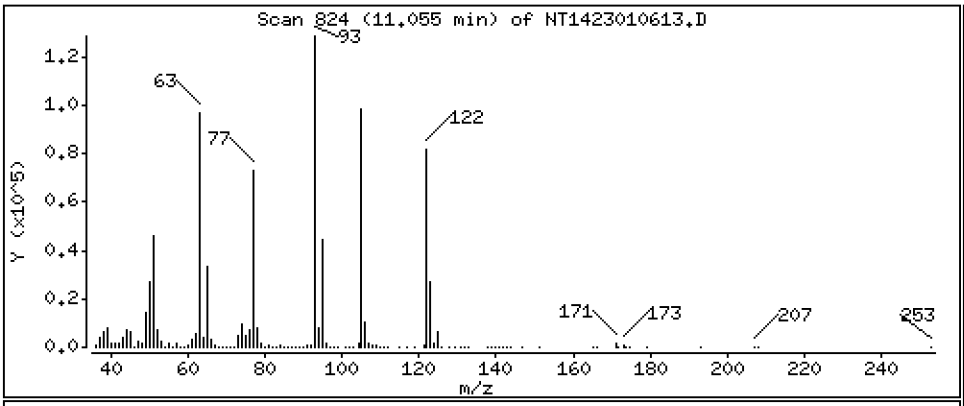
Operator: VTS

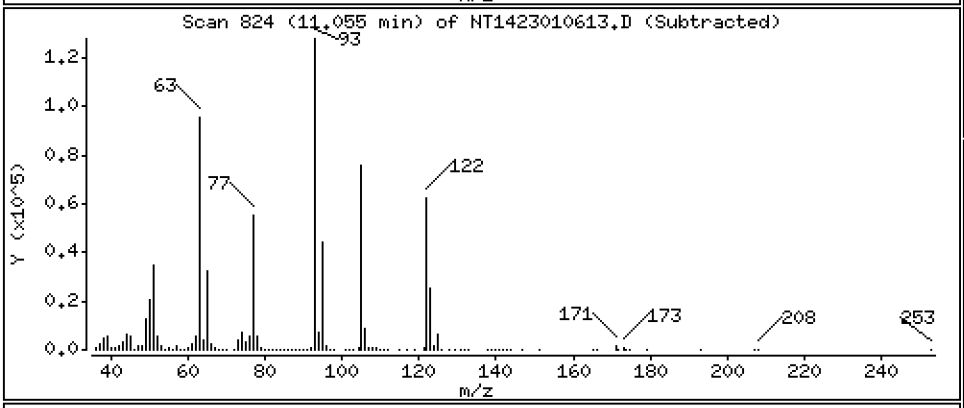
Column phase: ZB-5msi

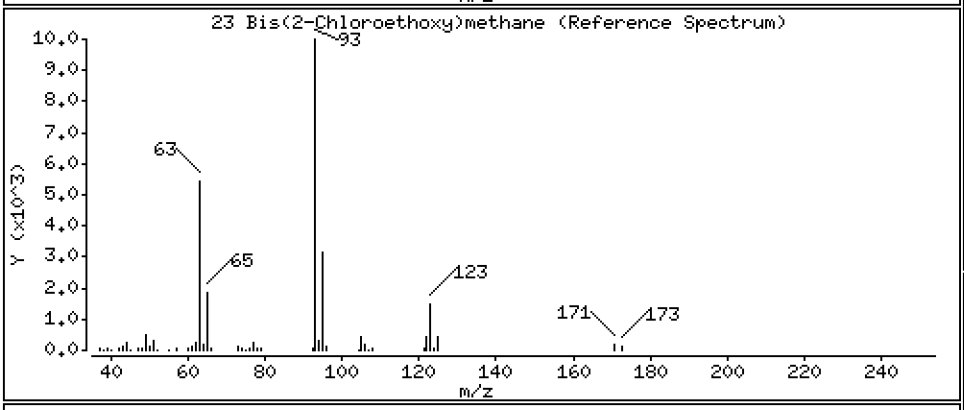
Column diameter: 0.25

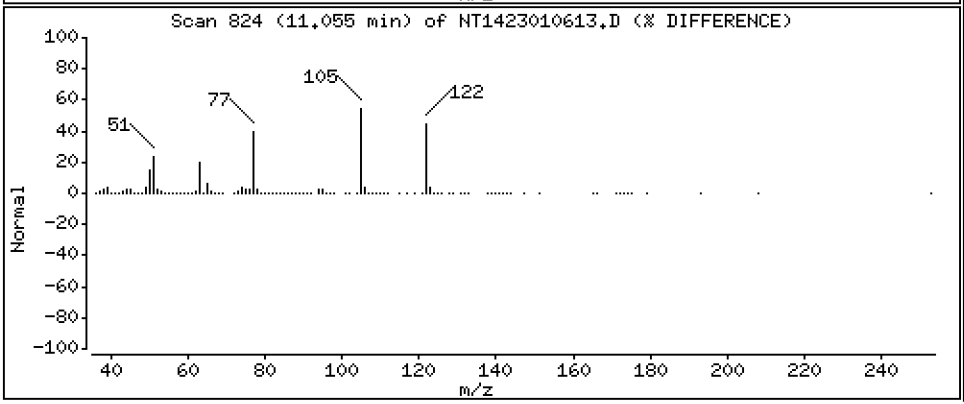
23 Bis(2-Chloroethoxy)methane

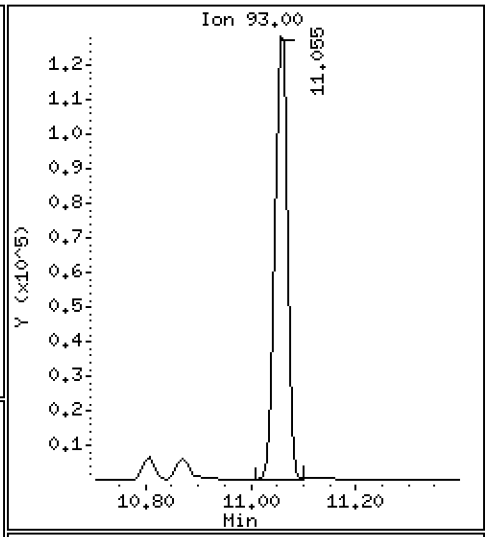
Concentration: 4.856 ug/mL

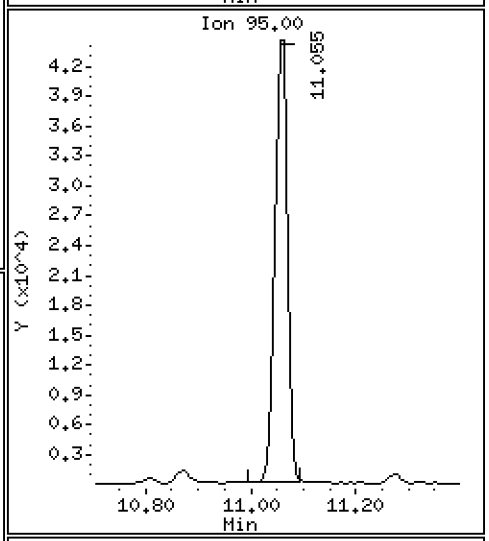


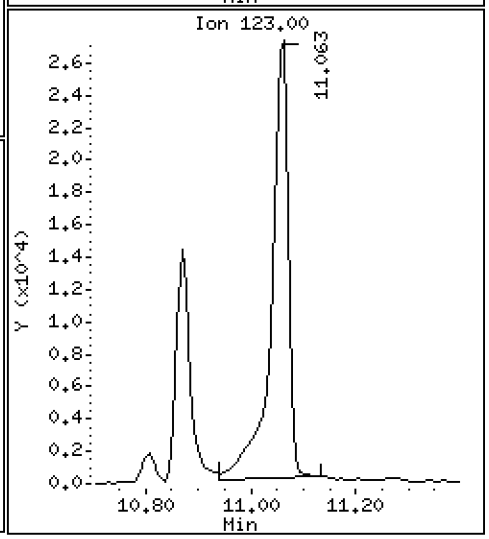












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

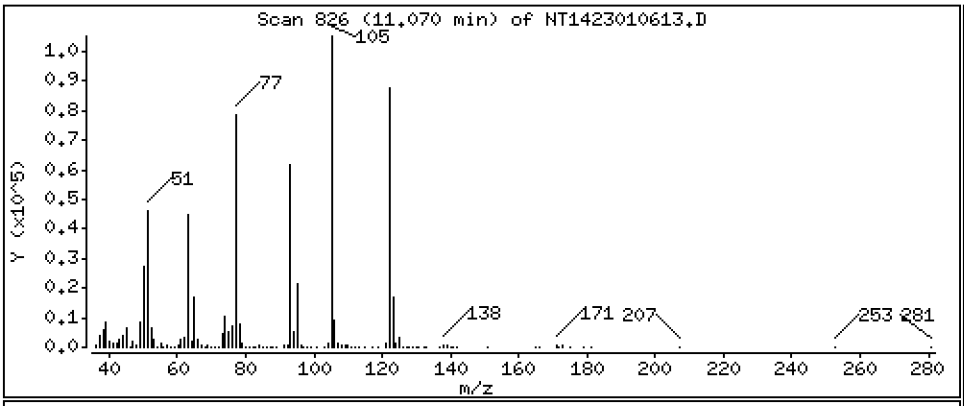
Operator: VTS

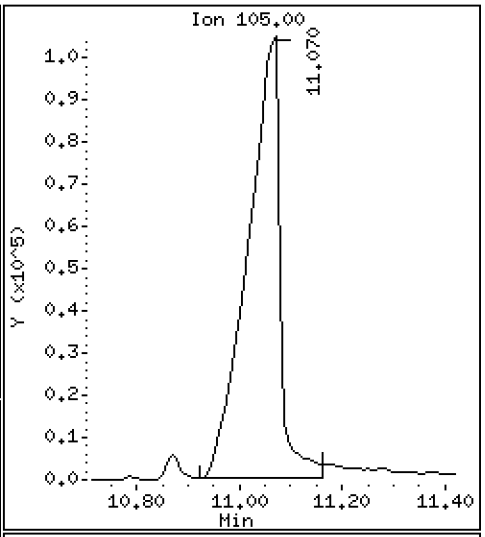
Column phase: ZB-5msi

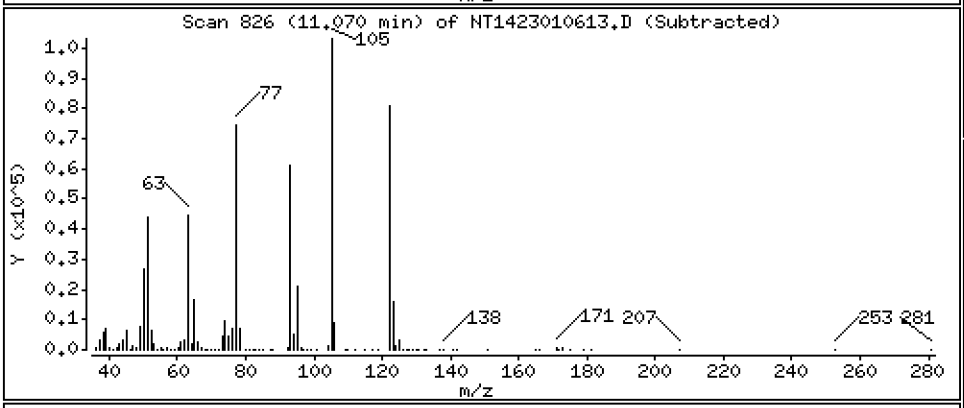
Column diameter: 0.25

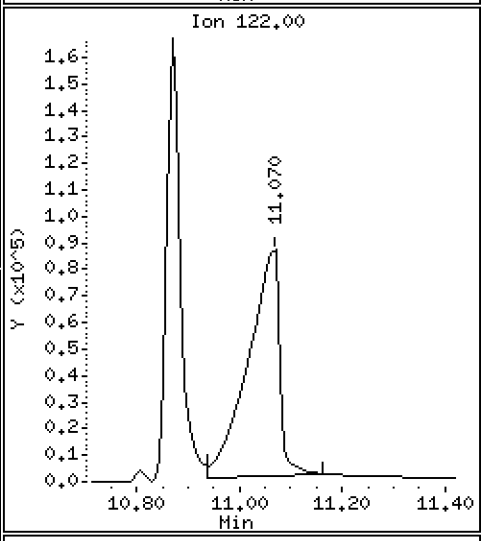
24 Benzoic acid

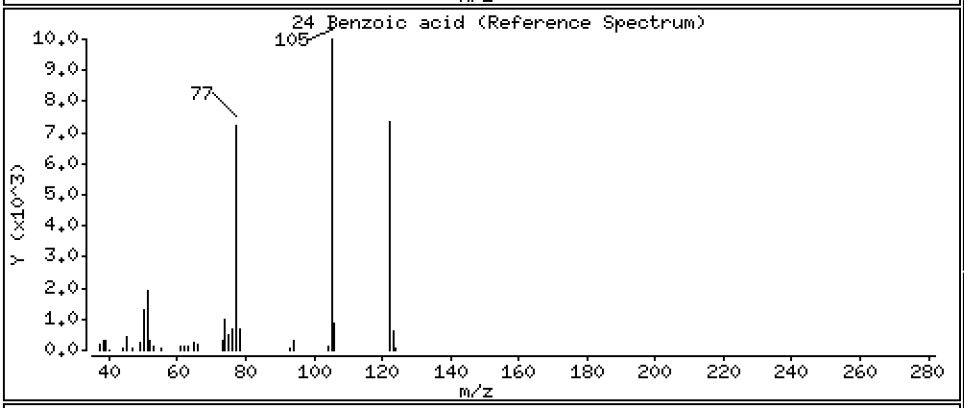
Concentration: 16.18 ug/mL

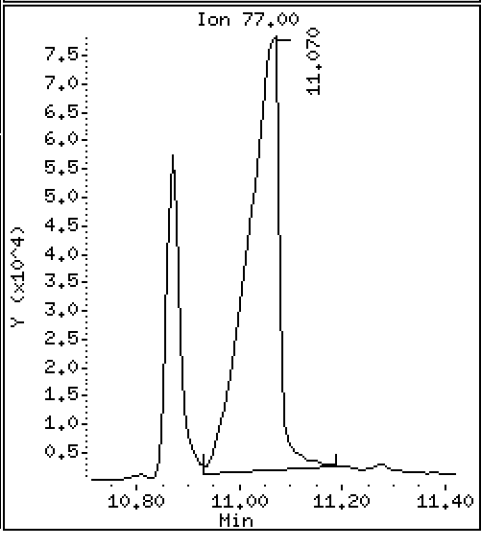


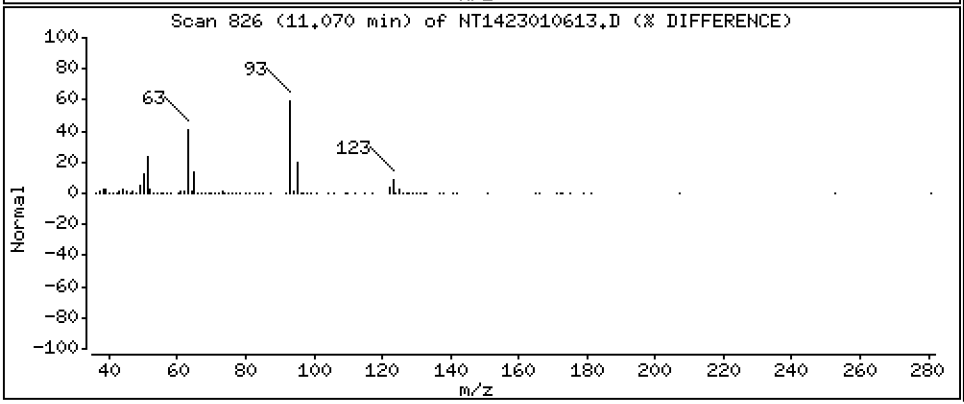












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

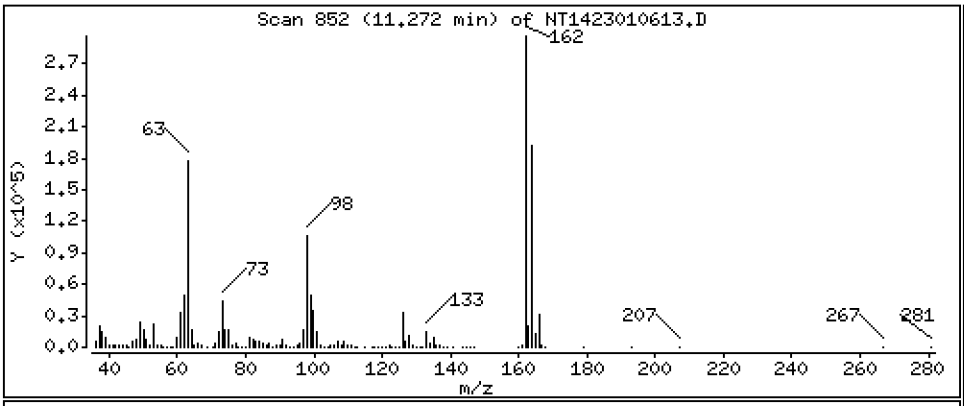
Operator: VTS

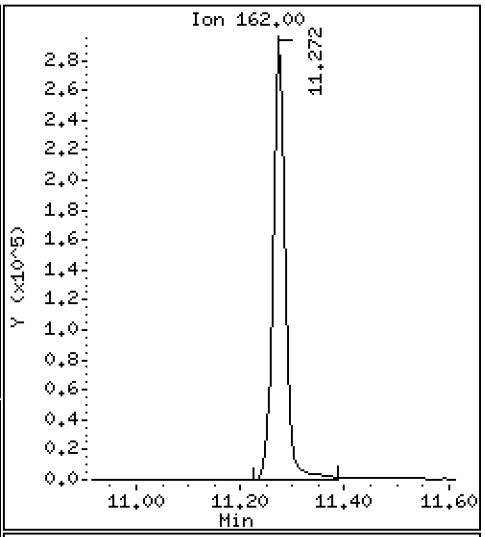
Column phase: ZB-5msi

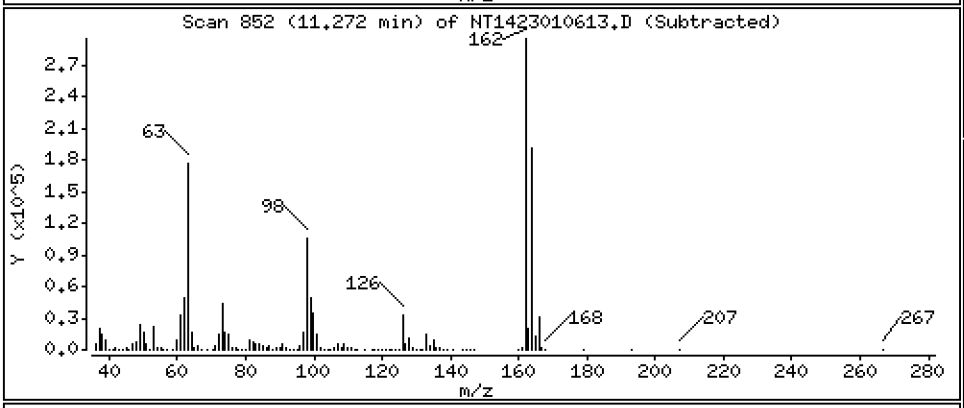
Column diameter: 0.25

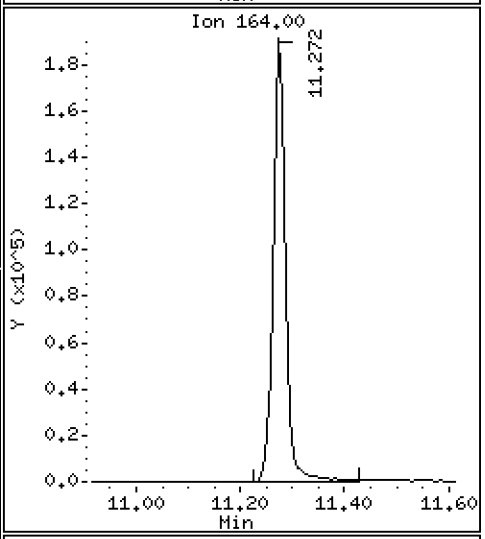
25 2,4-Dichlorophenol

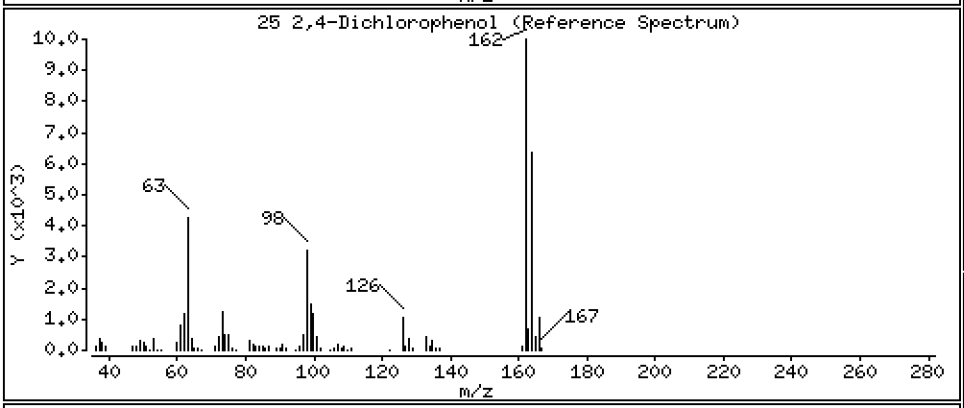
Concentration: 13.20 ug/mL

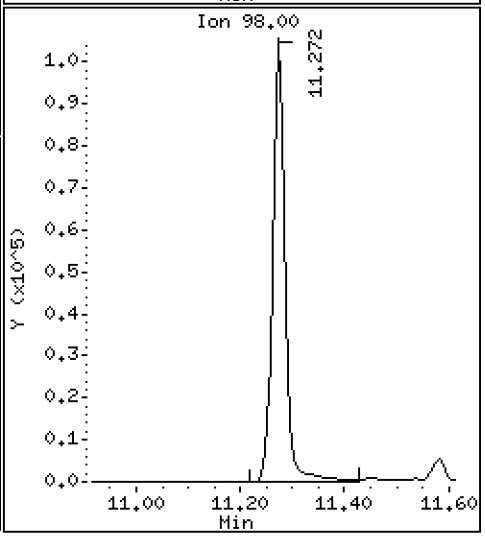


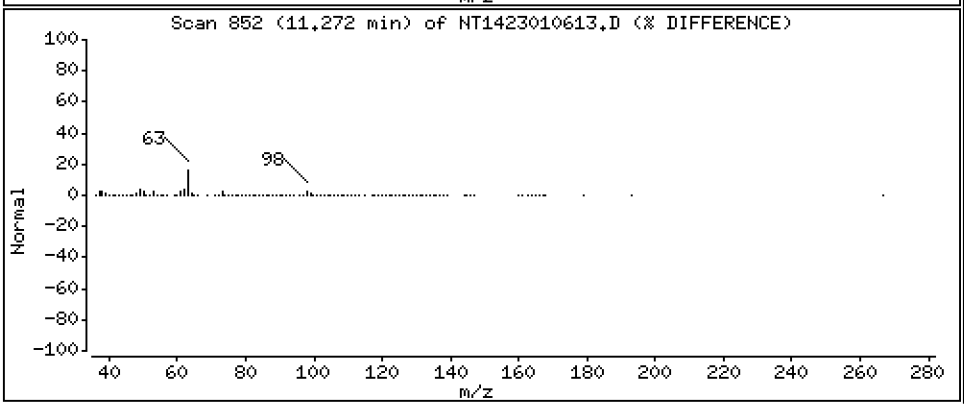












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

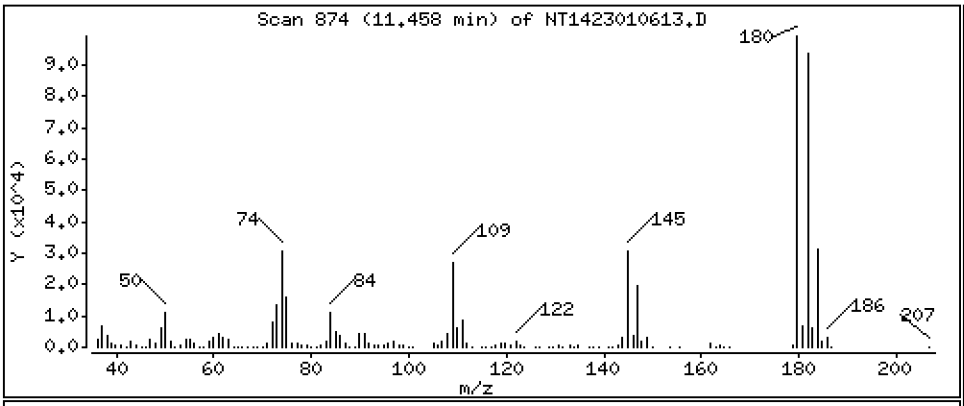
Operator: VTS

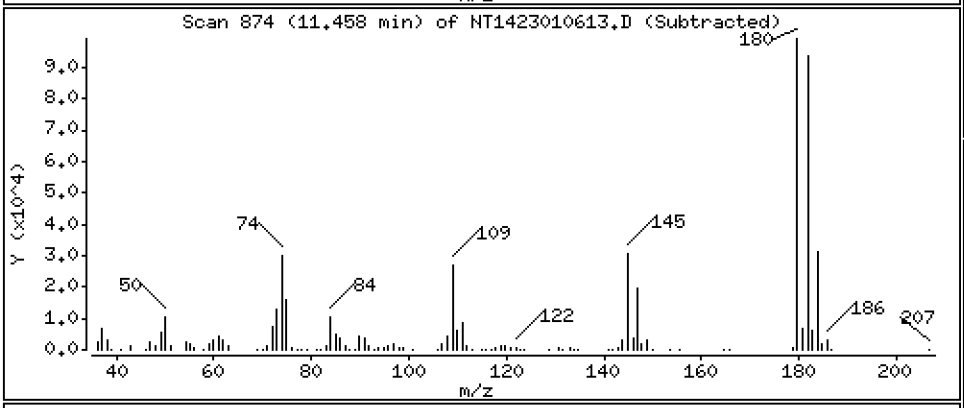
Column phase: ZB-5msi

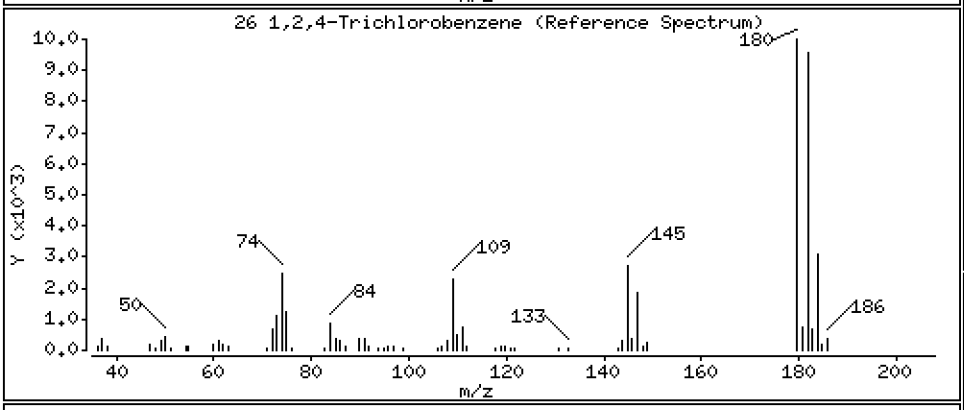
Column diameter: 0.25

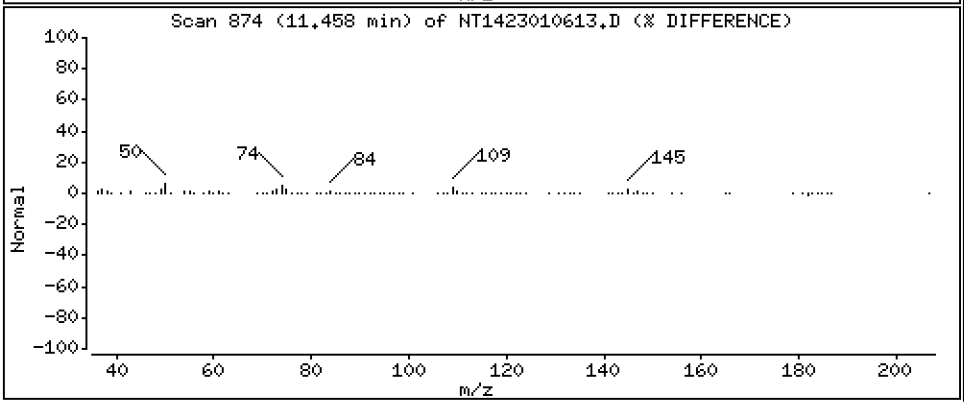
26 1,2,4-Trichlorobenzene

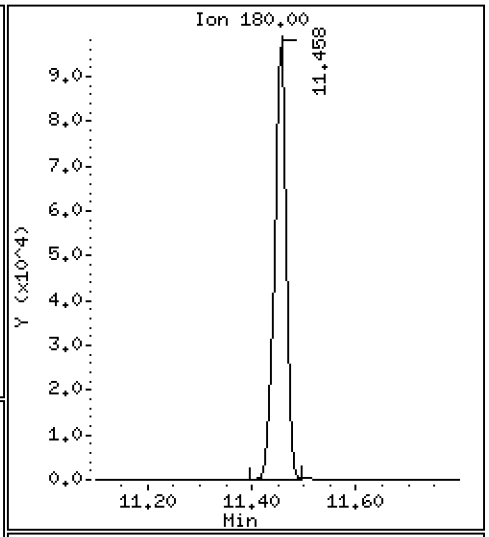
Concentration: 4.501 ug/mL

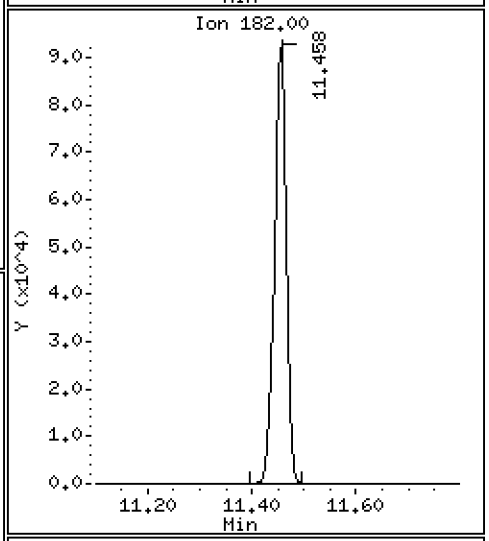


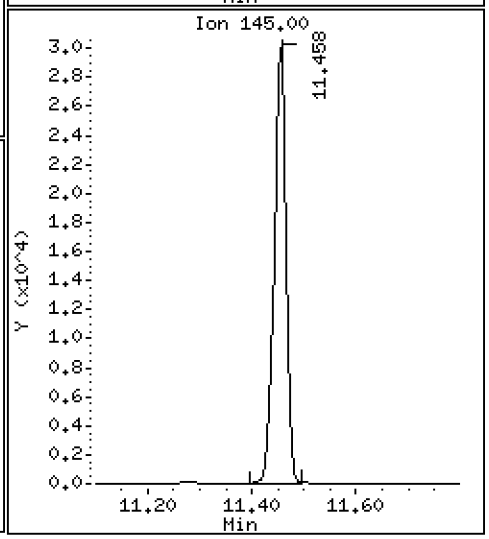












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

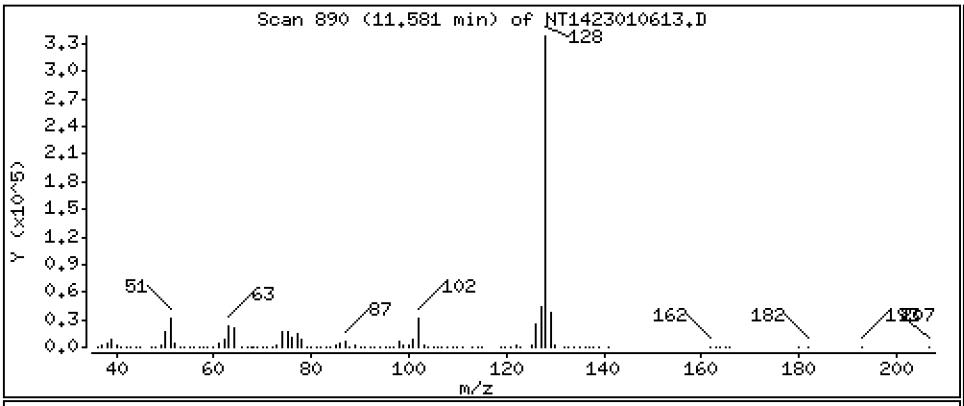
Operator: VTS

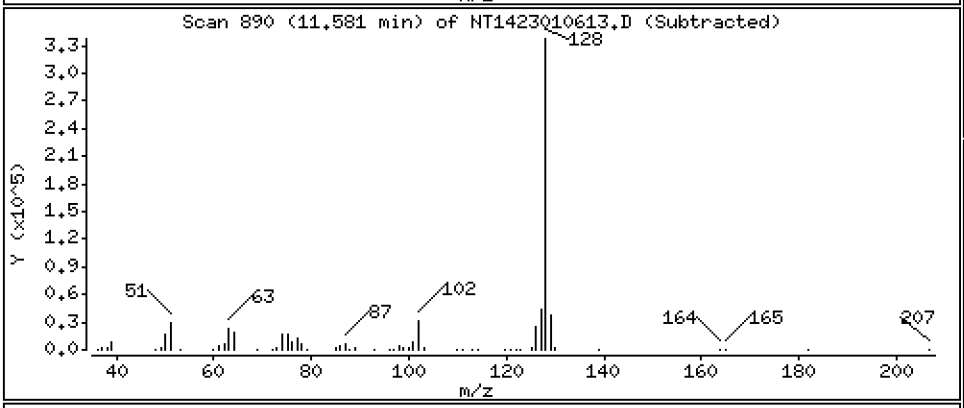
Column phase: ZB-5msi

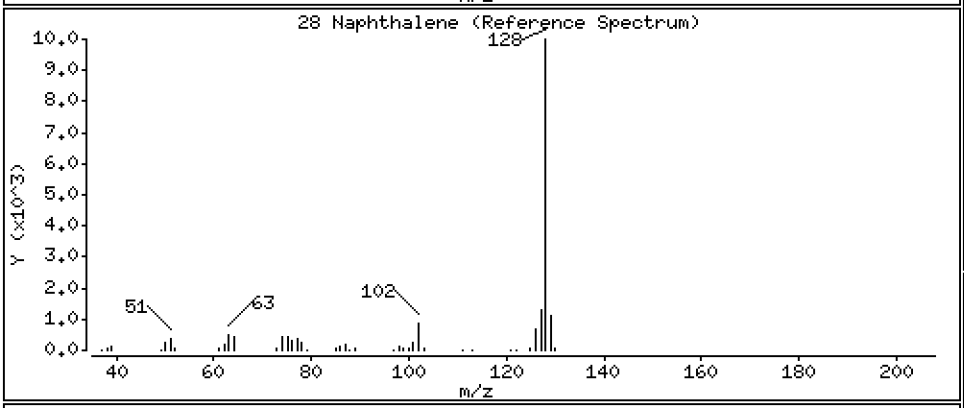
Column diameter: 0.25

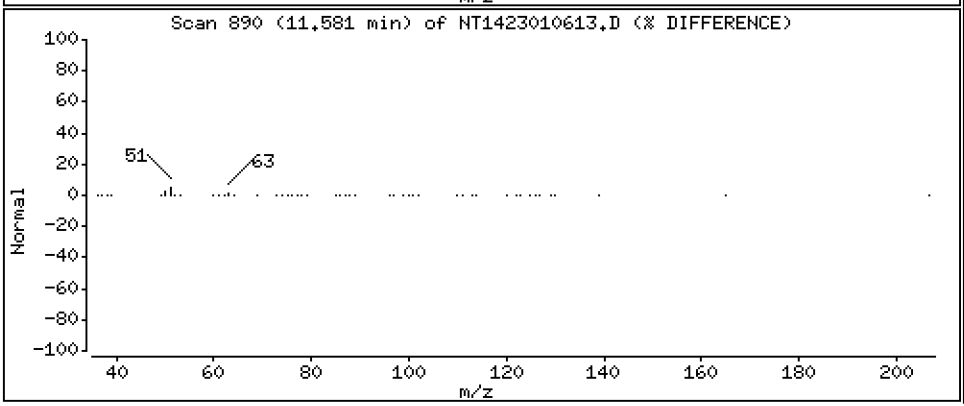
28 Naphthalene

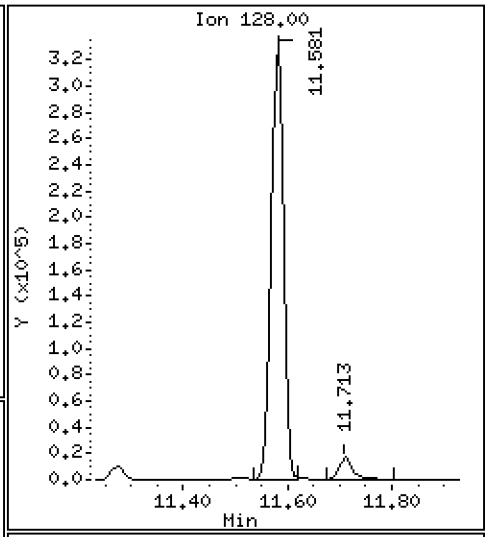
Concentration: 4.129 ug/mL

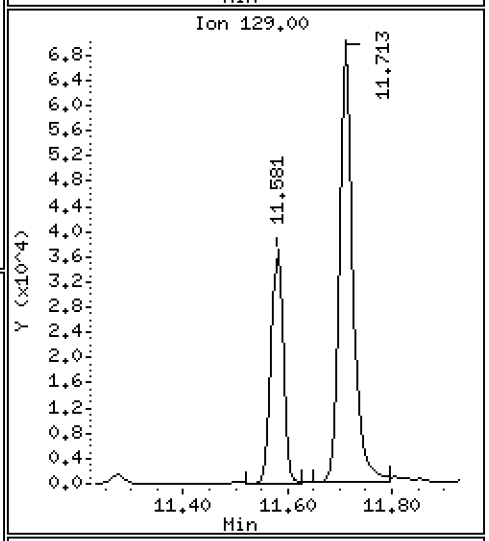


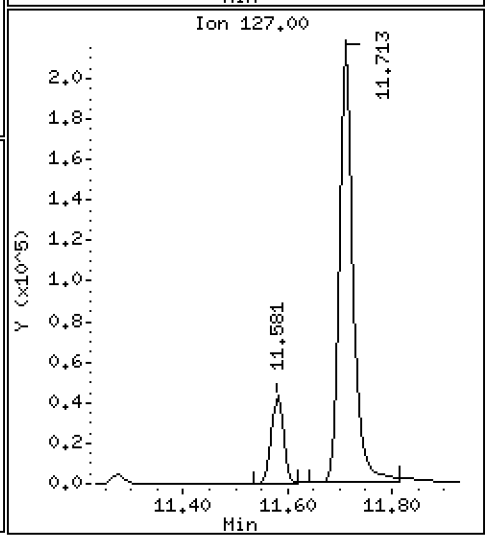












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

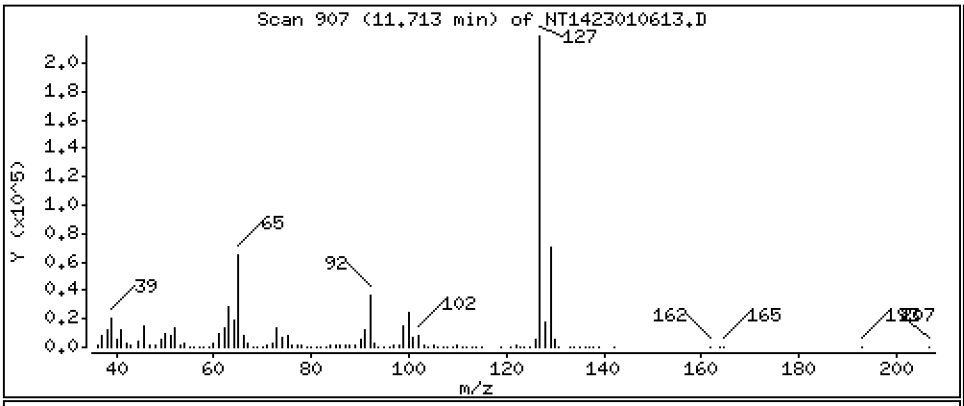
Operator: VTS

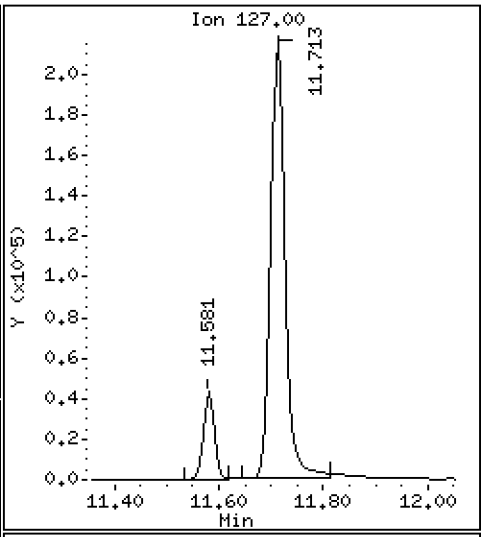
Column phase: ZB-5msi

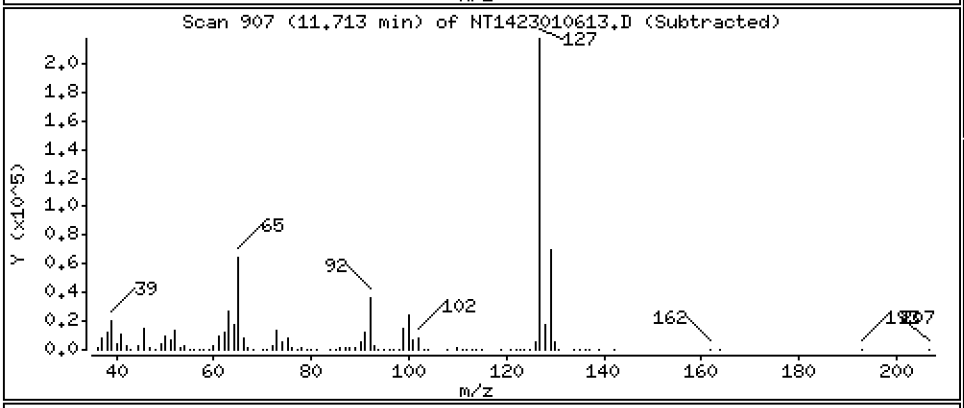
Column diameter: 0.25

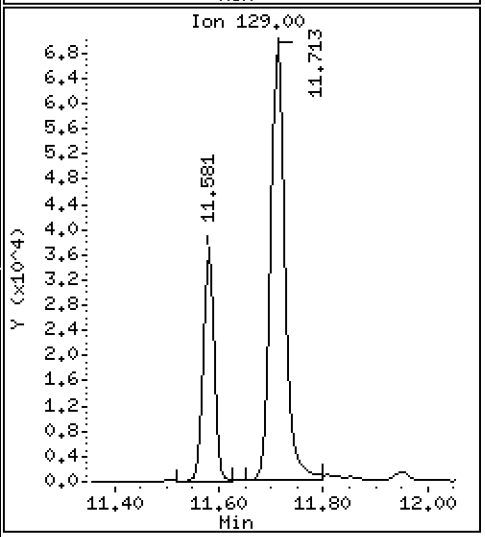
29 4-Chloroaniline

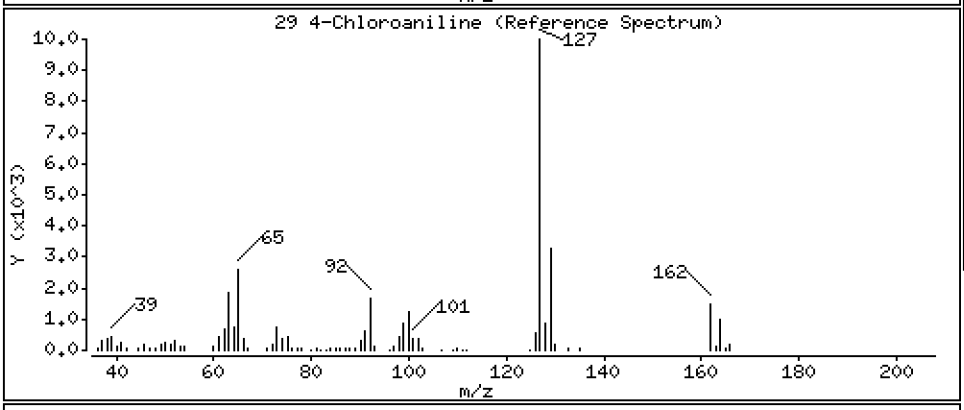
Concentration: 7.810 ug/mL

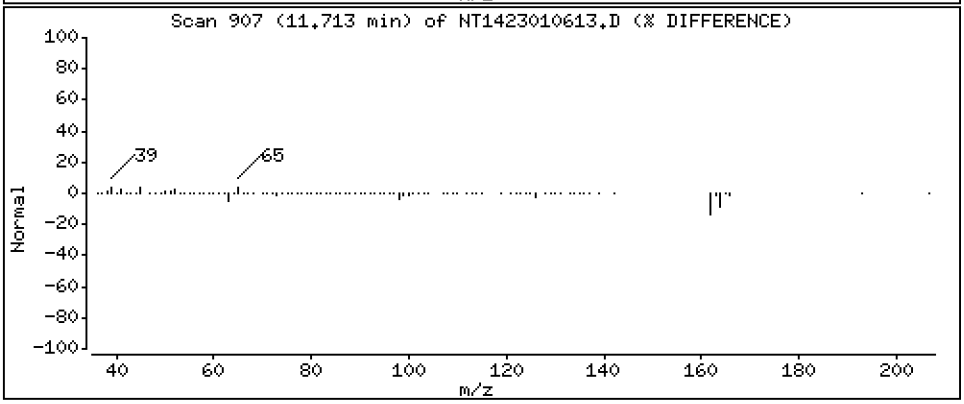












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

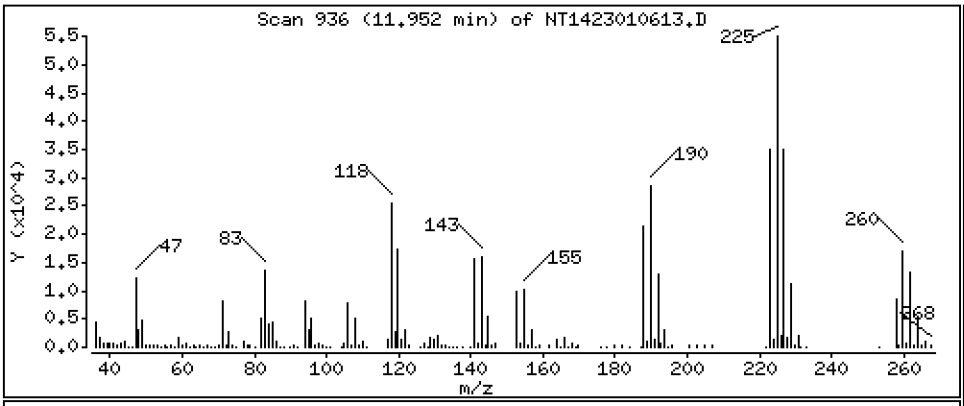
Operator: VTS

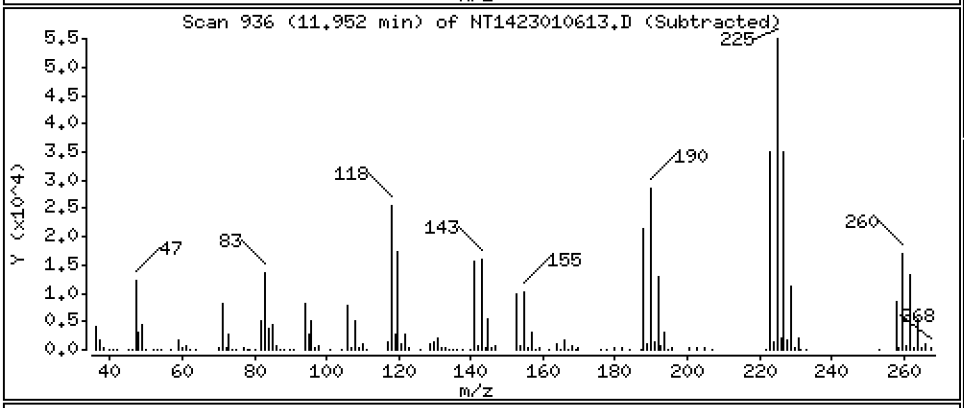
Column phase: ZB-5msi

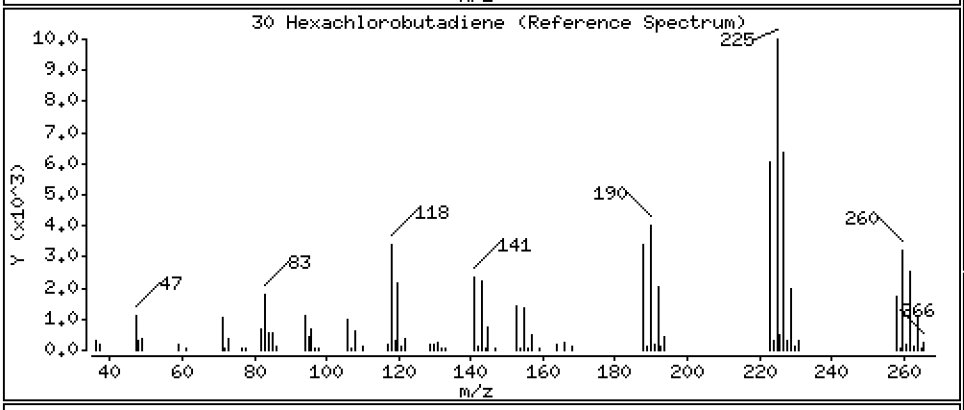
Column diameter: 0.25

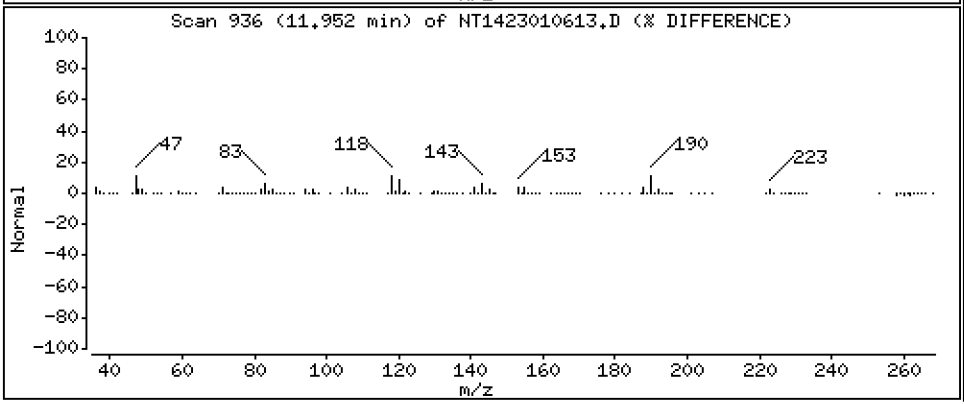
30 Hexachlorobutadiene

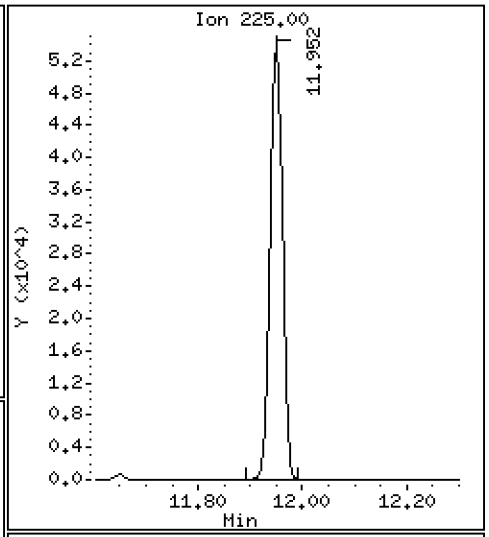
Concentration: 5.026 ug/mL

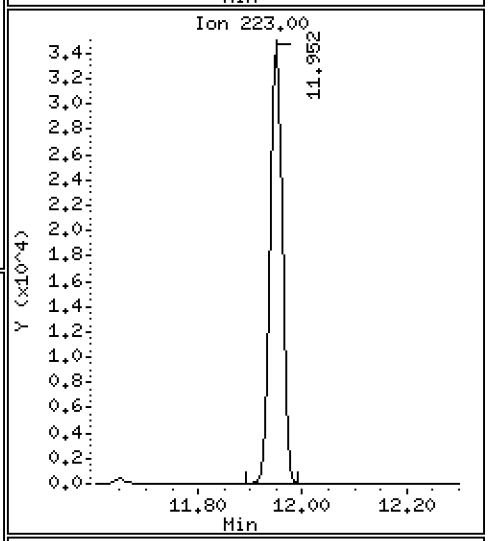


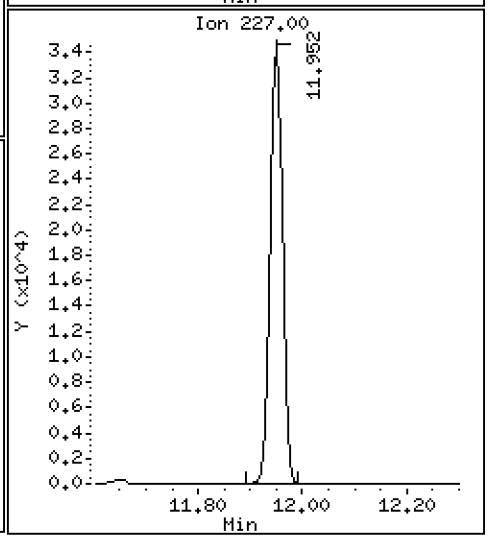












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

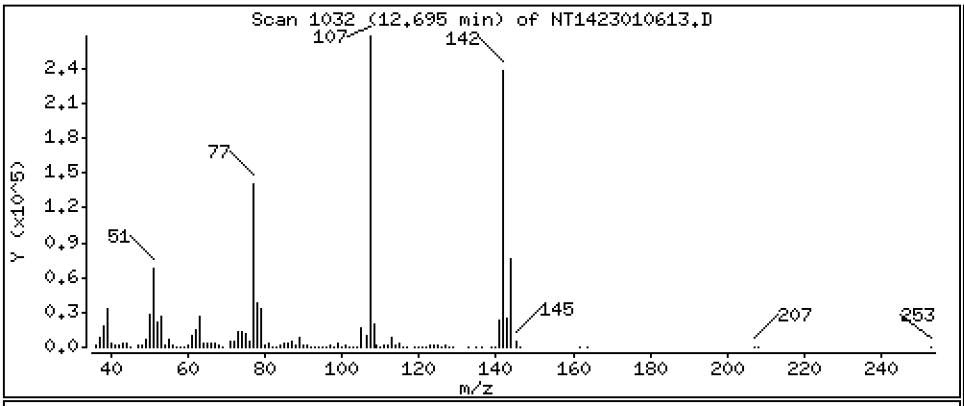
Operator: VTS

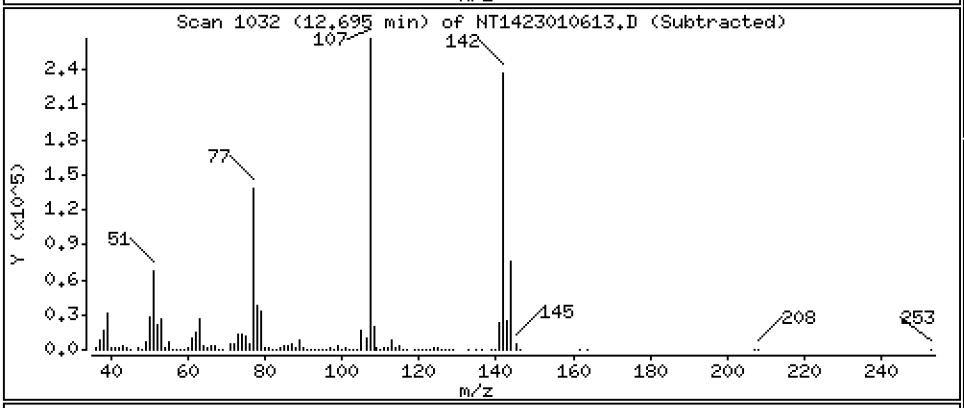
Column phase: ZB-5msi

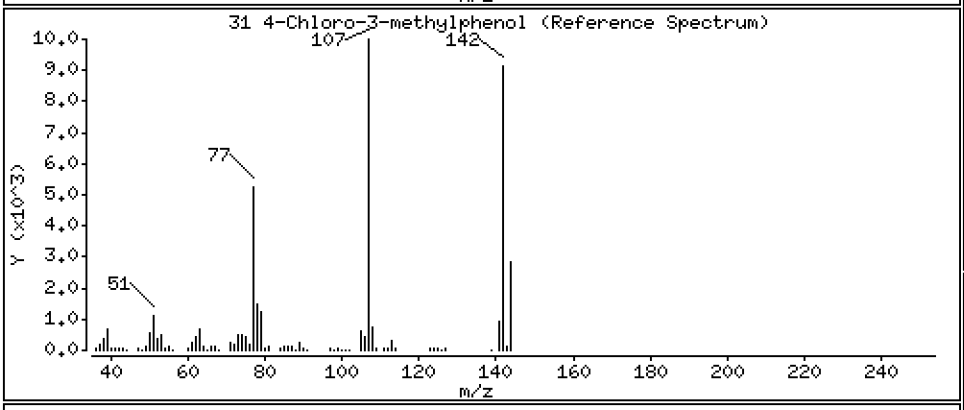
Column diameter: 0.25

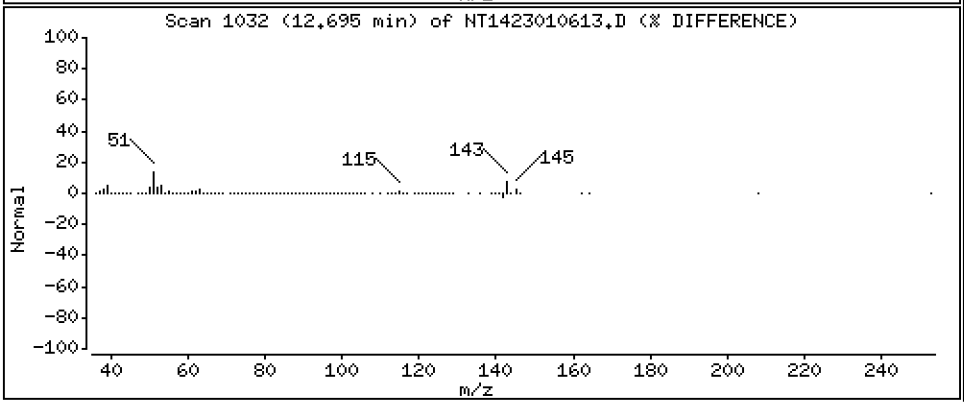
31 4-Chloro-3-methylphenol

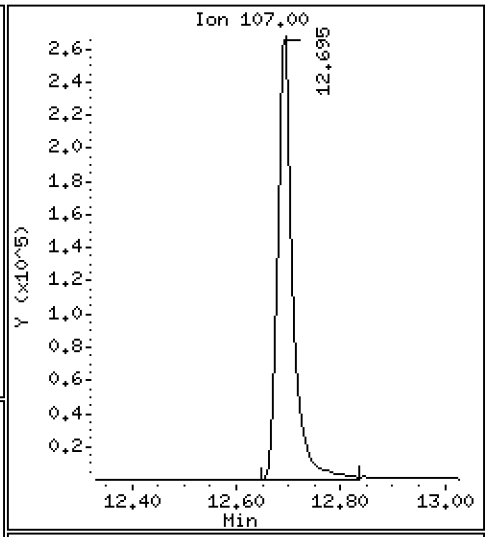
Concentration: 15.47 ug/mL

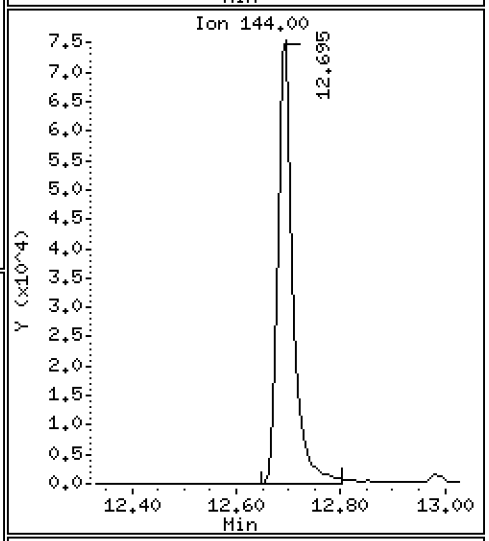


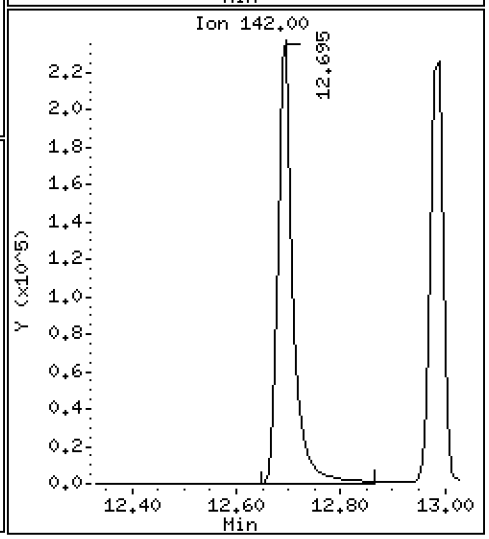












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

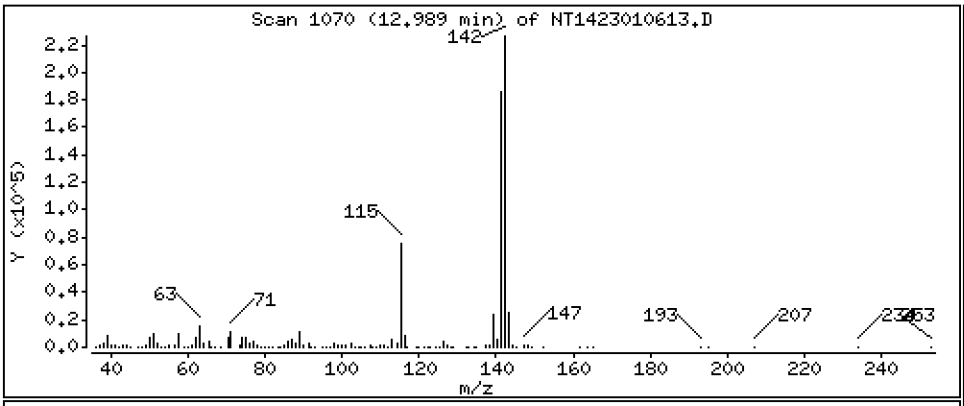
Operator: VTS

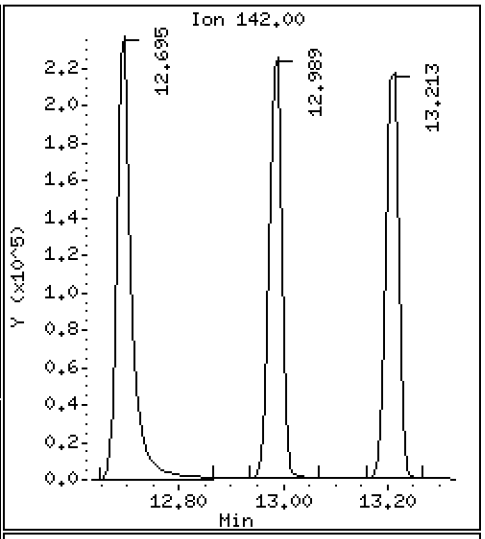
Column phase: ZB-5msi

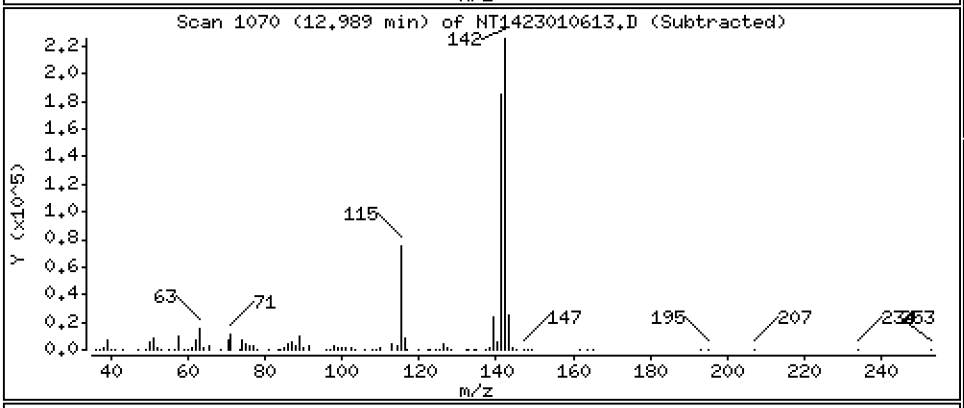
Column diameter: 0.25

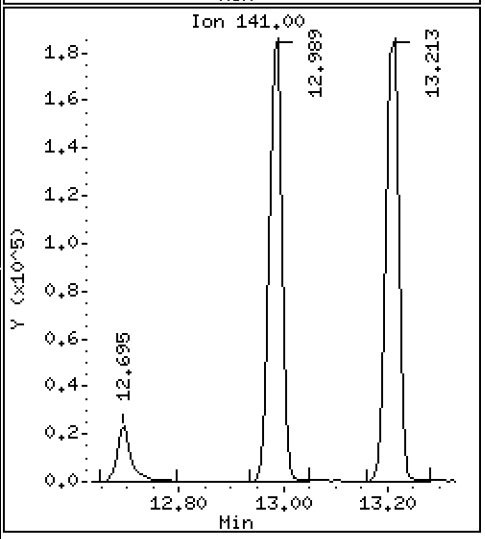
32 2-Methylnaphthalene

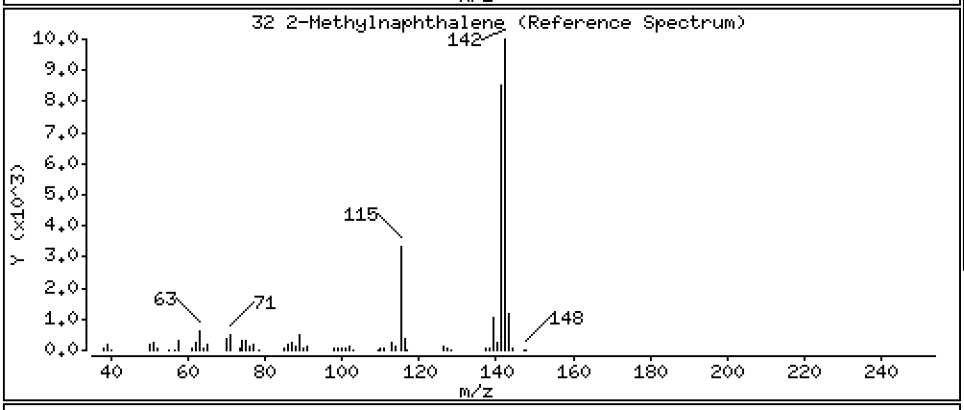
Concentration: 3.993 ug/mL

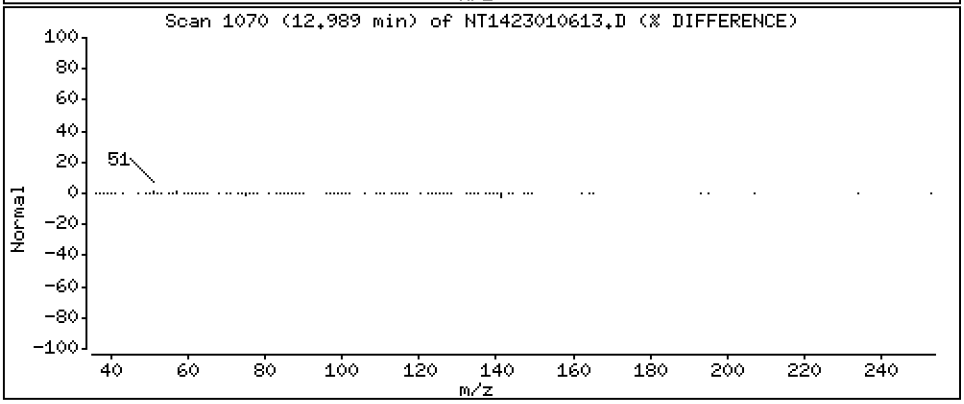












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

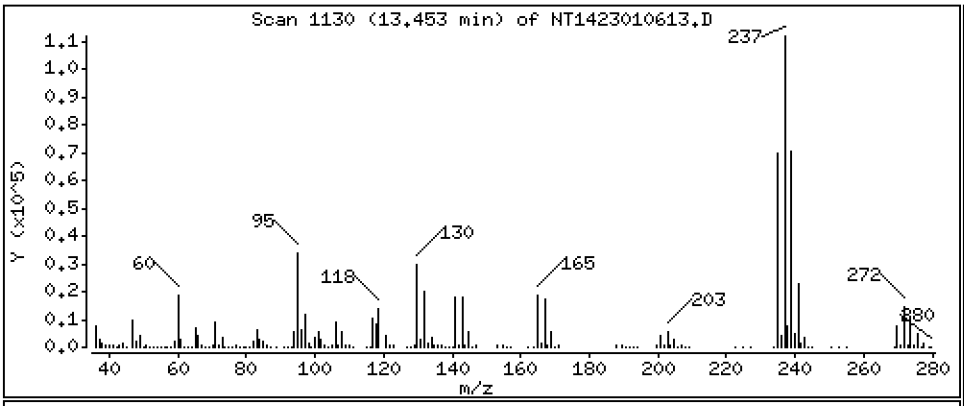
Operator: VTS

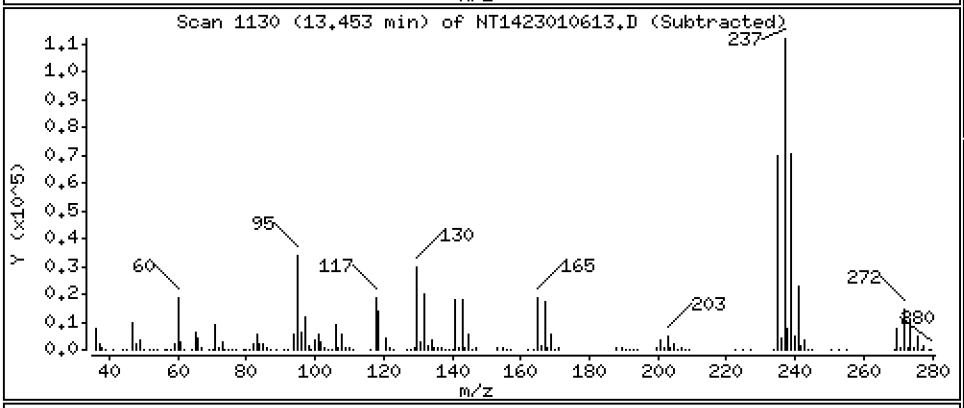
Column phase: ZB-5msi

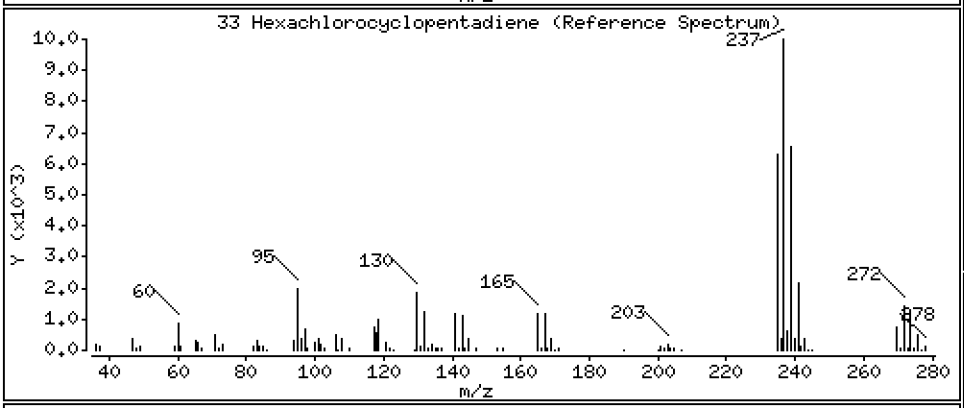
Column diameter: 0.25

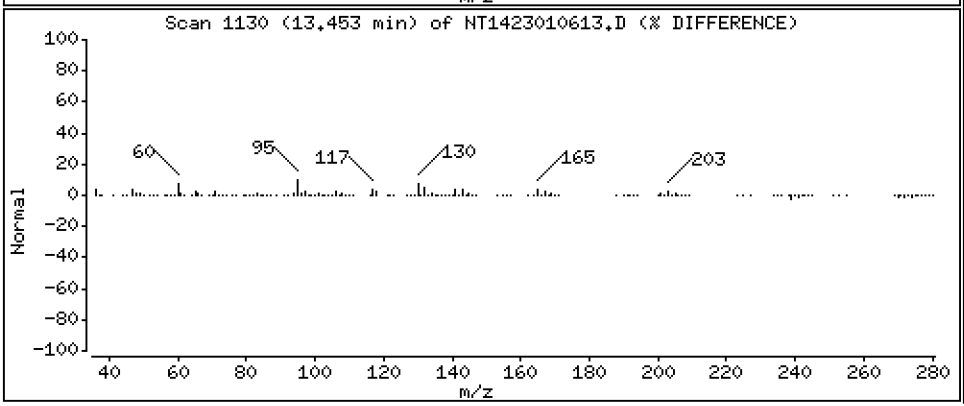
33 Hexachlorocyclopentadiene

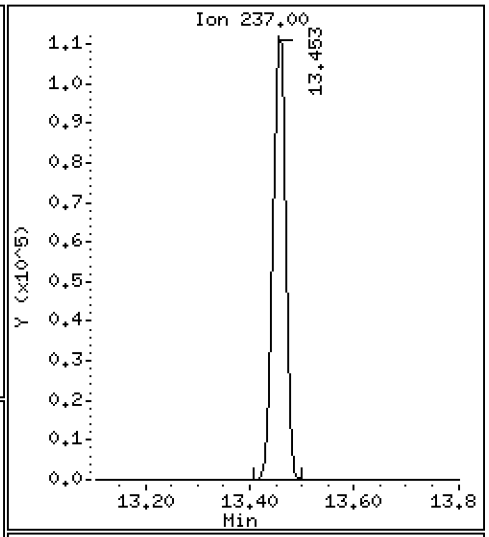
Concentration: 9.972 ug/mL

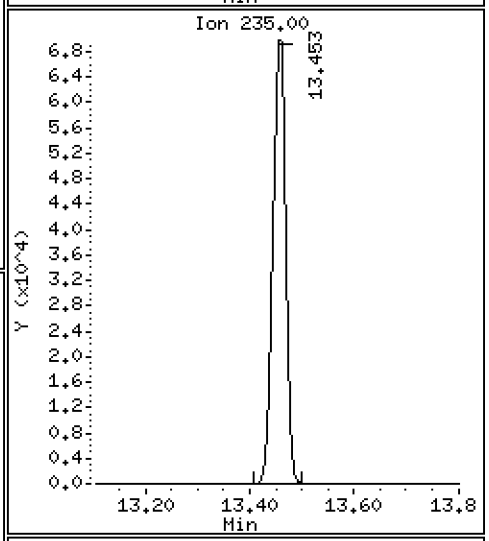


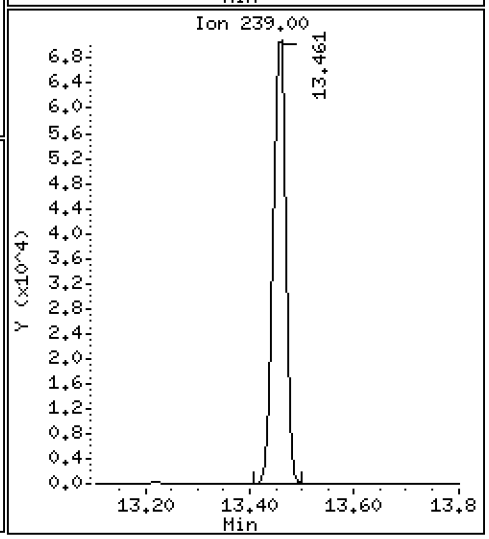












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

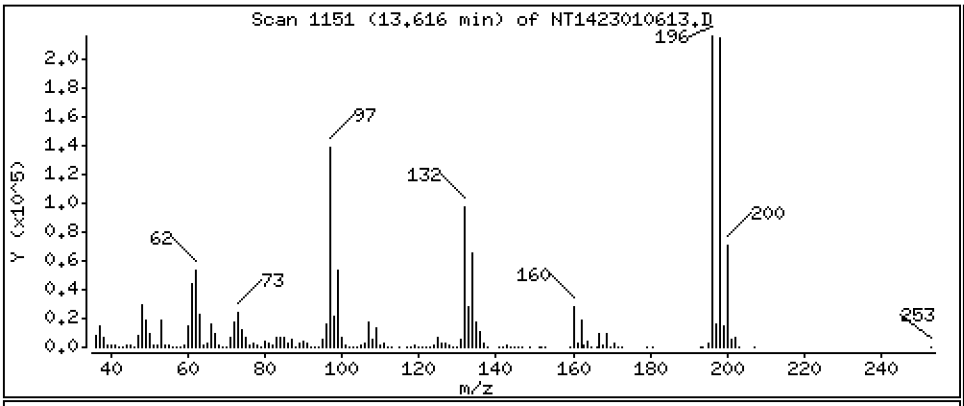
Operator: VTS

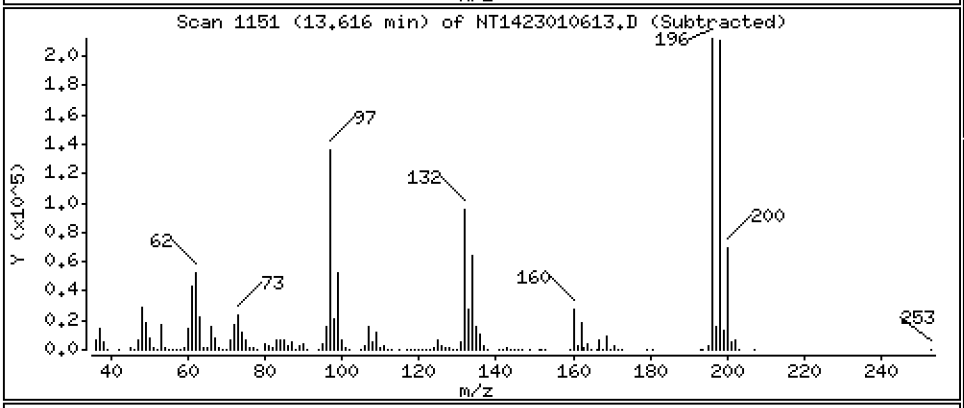
Column phase: ZB-5msi

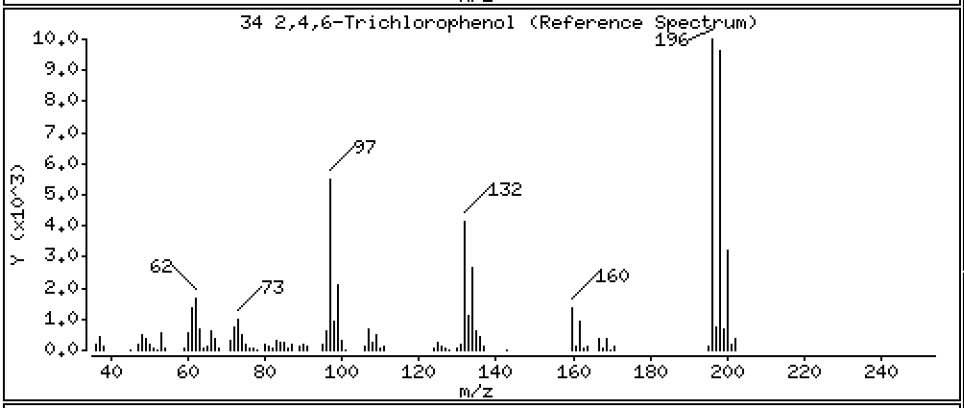
Column diameter: 0.25

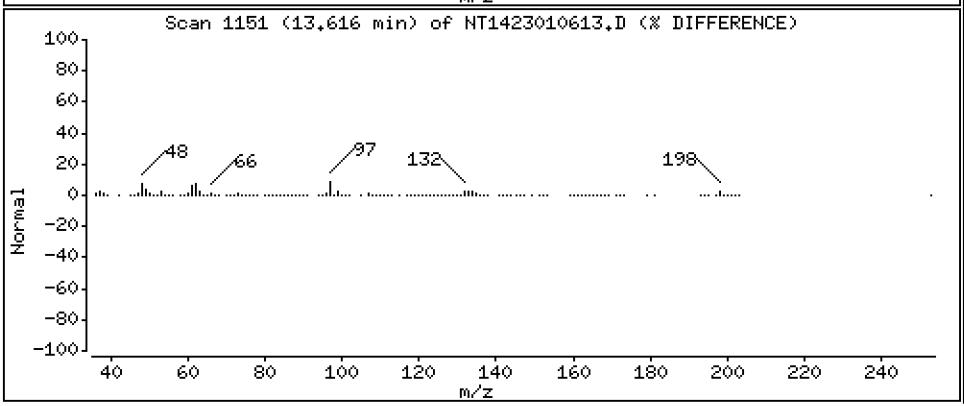
34 2,4,6-Trichlorophenol

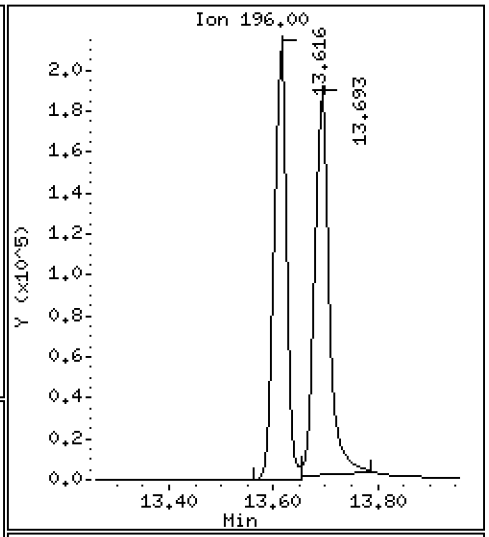
Concentration: 17.07 ug/mL

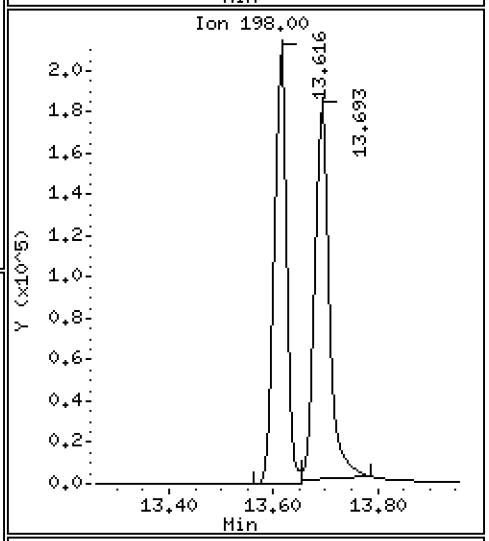


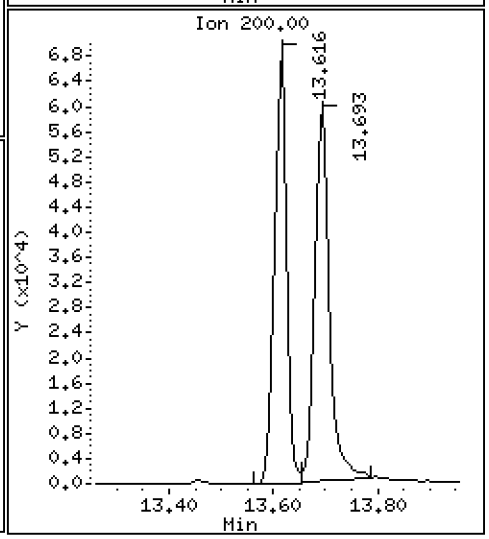












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

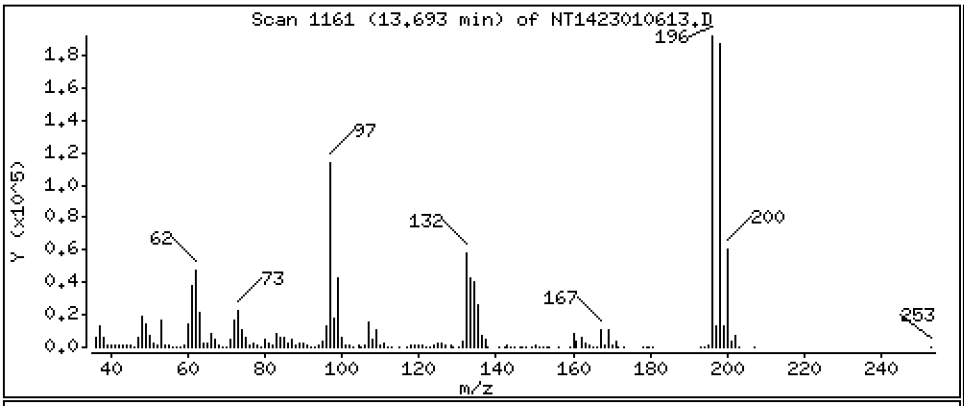
Operator: VTS

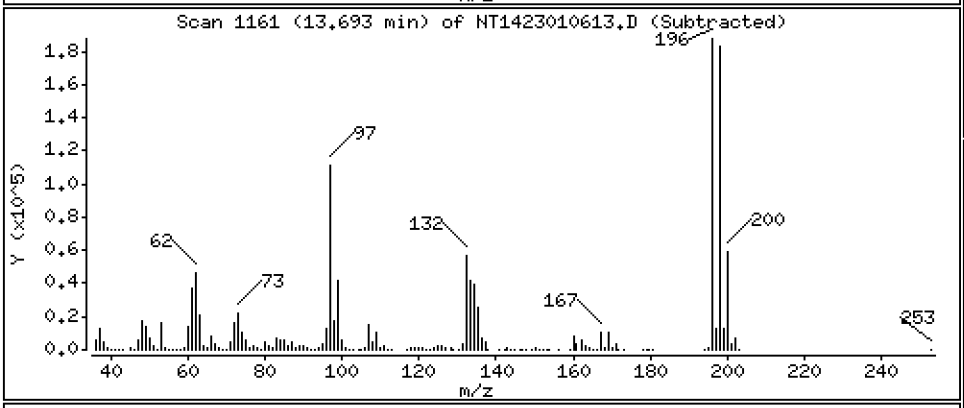
Column phase: ZB-5msi

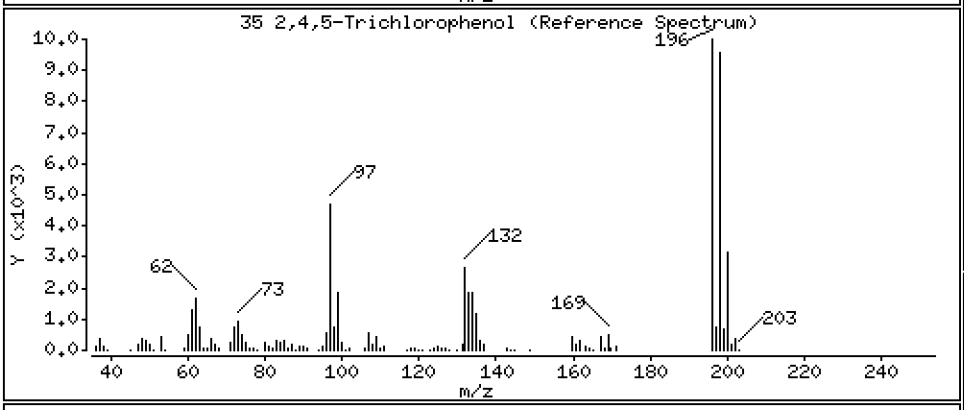
Column diameter: 0.25

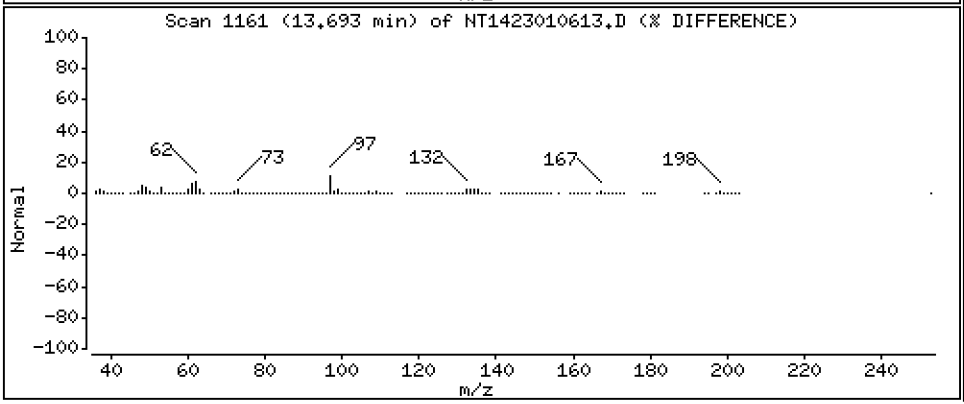
35 2,4,5-Trichlorophenol

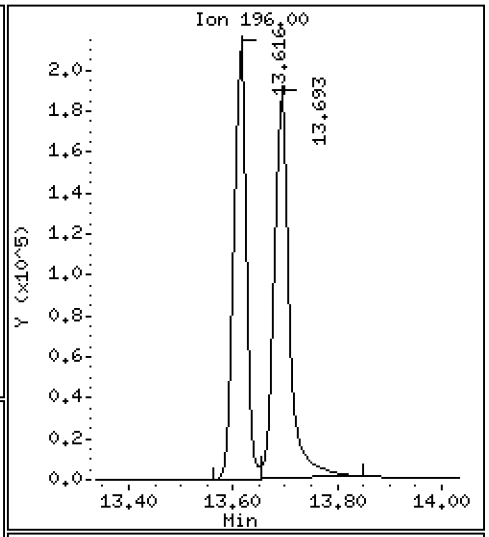
Concentration: 16.02 ug/mL

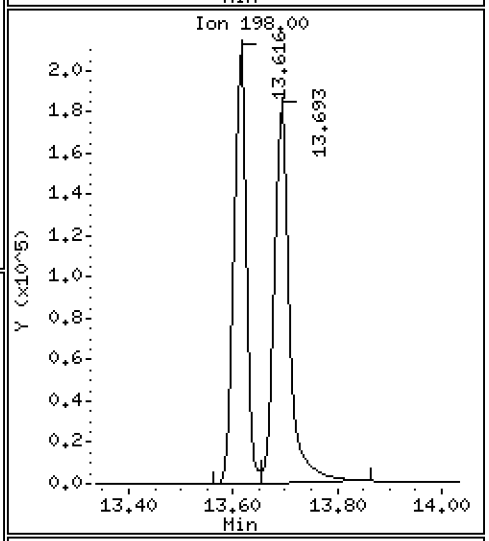


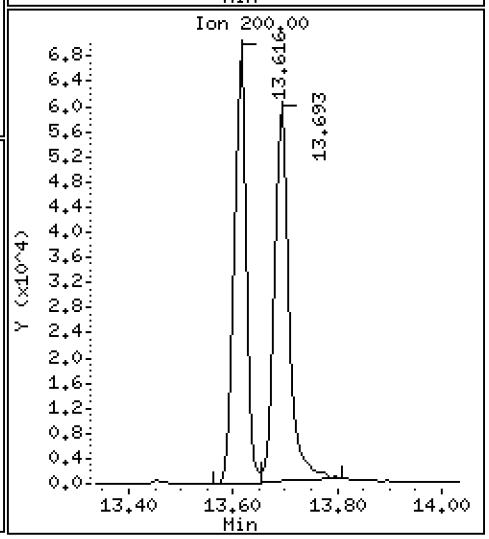












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

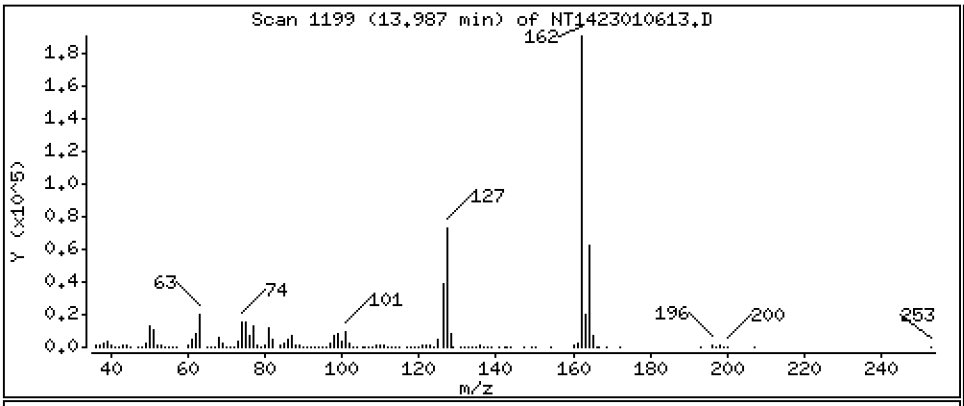
Operator: VTS

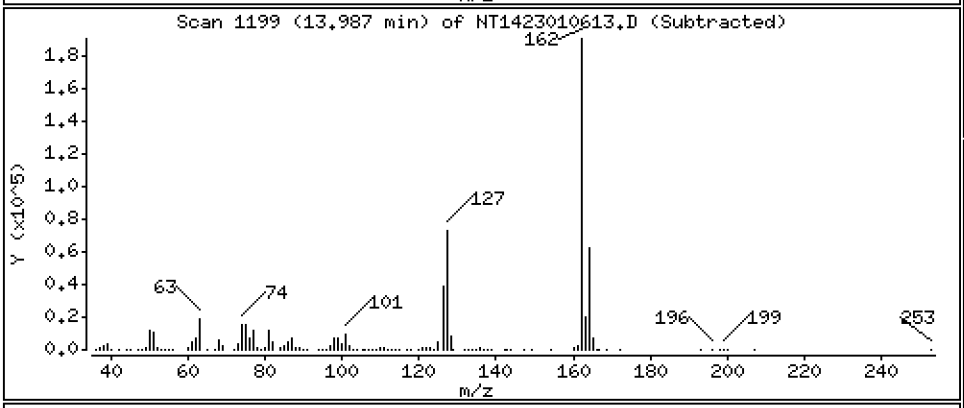
Column phase: ZB-5msi

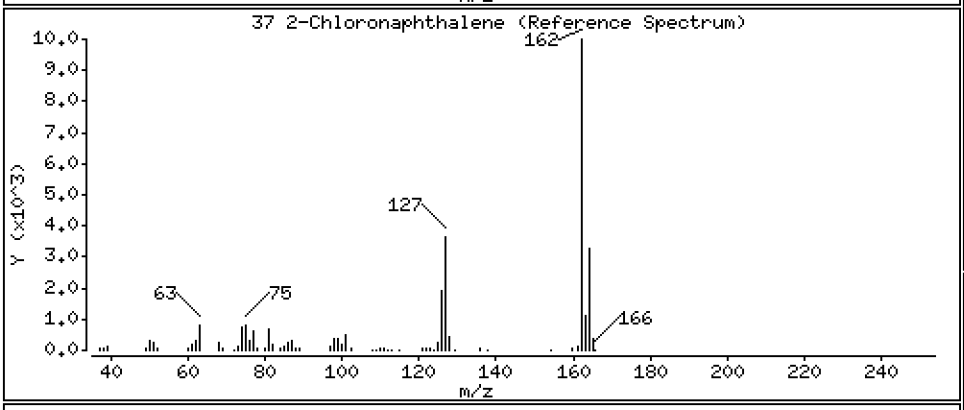
Column diameter: 0.25

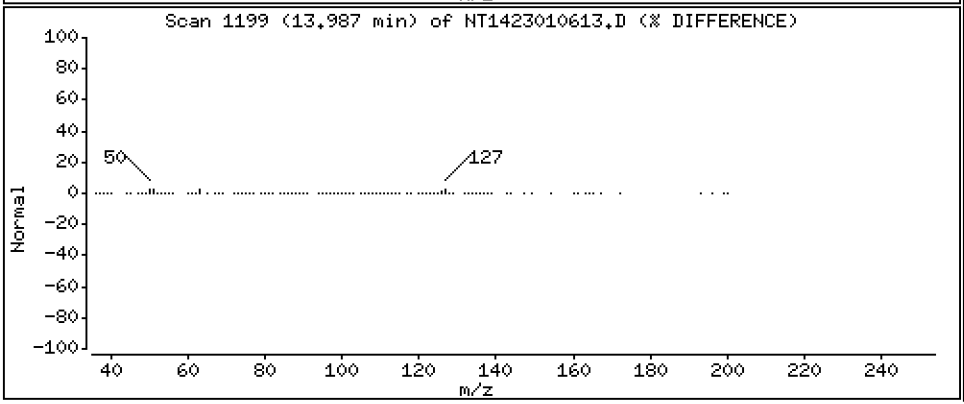
37 2-Chloronaphthalene

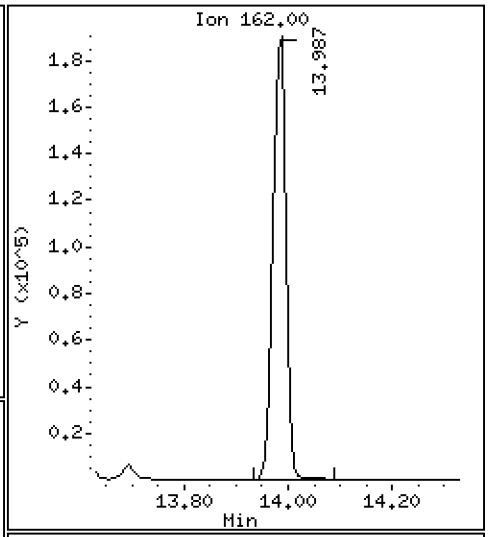
Concentration: 4.592 ug/mL

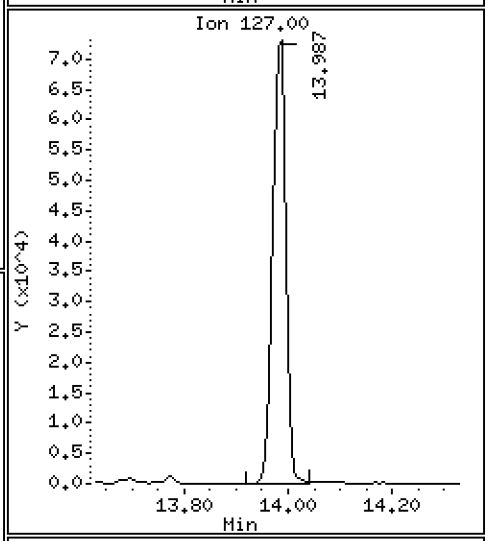


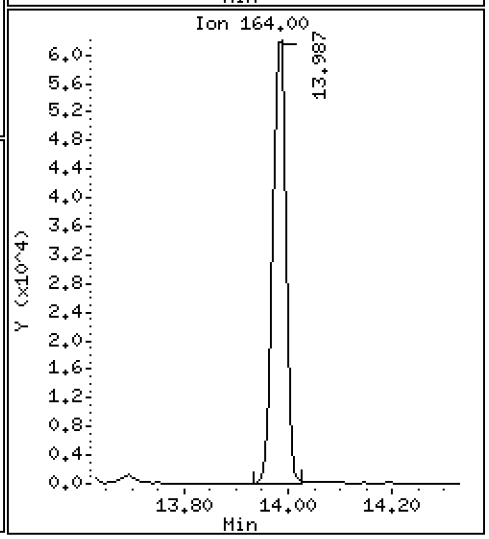












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

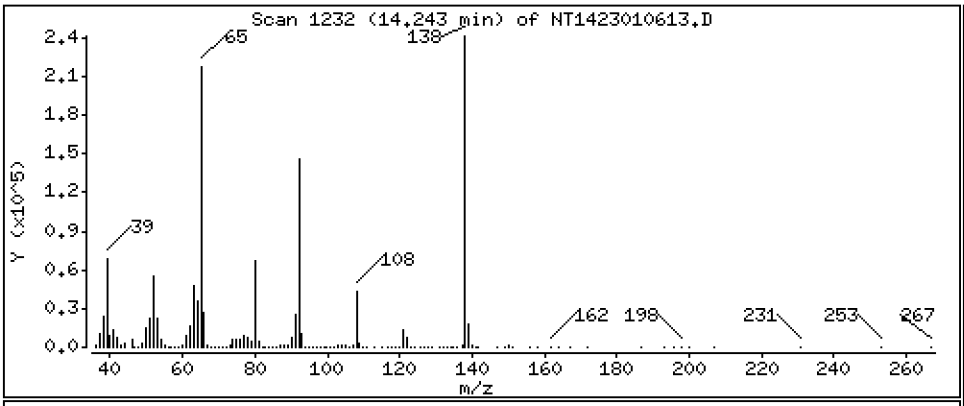
Operator: VTS

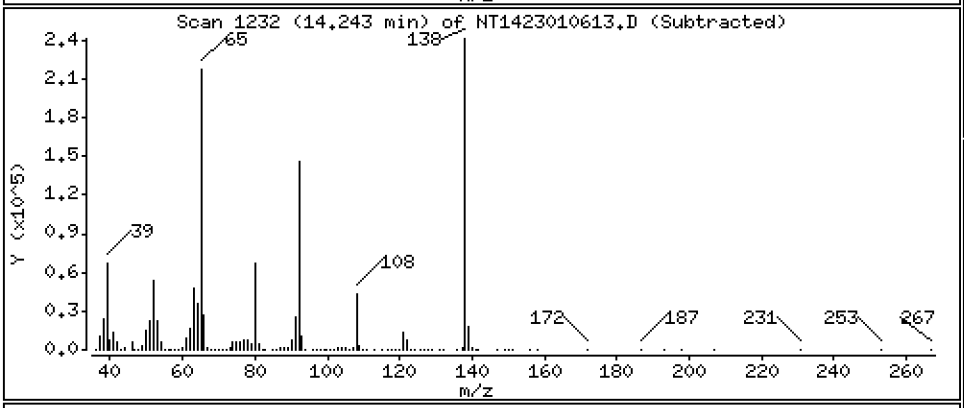
Column phase: ZB-5msi

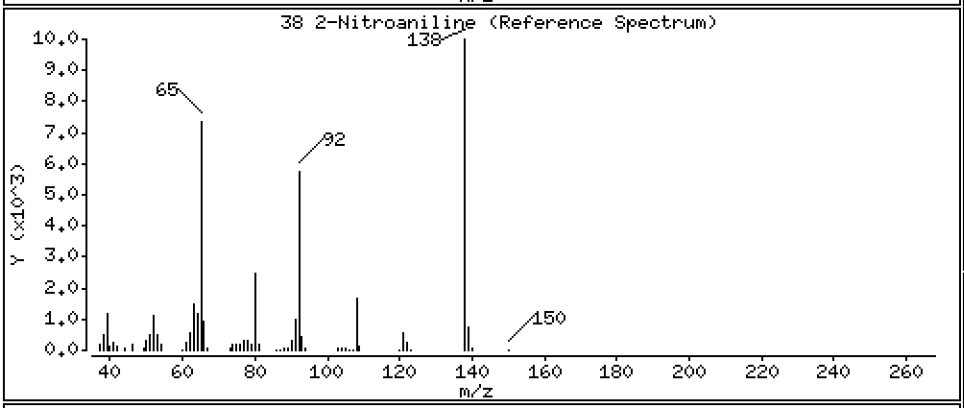
Column diameter: 0.25

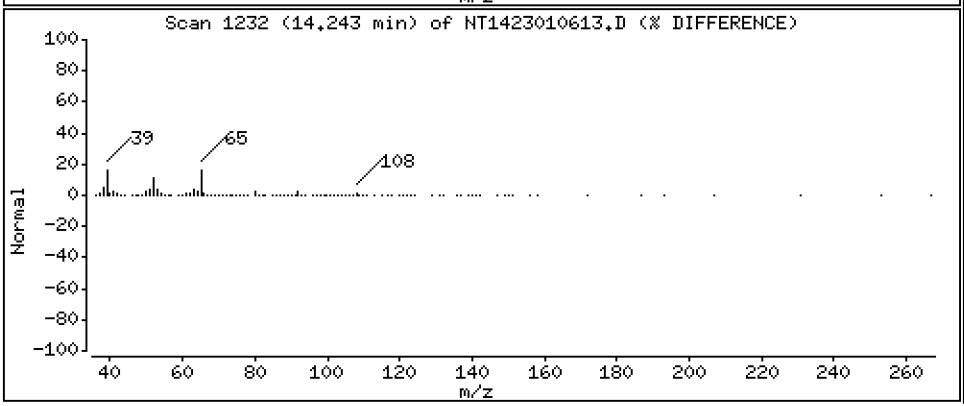
38 2-Nitroaniline

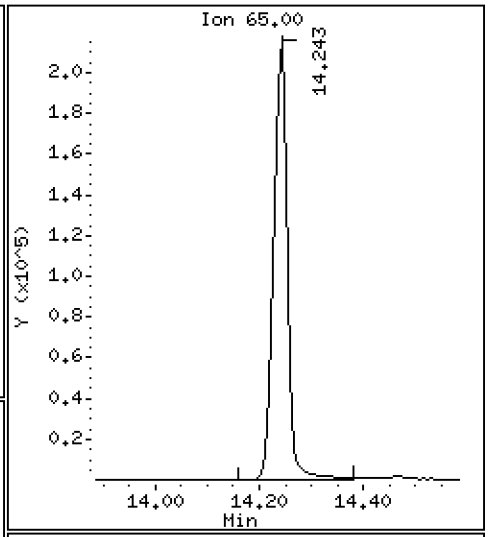
Concentration: 21.17 ug/mL

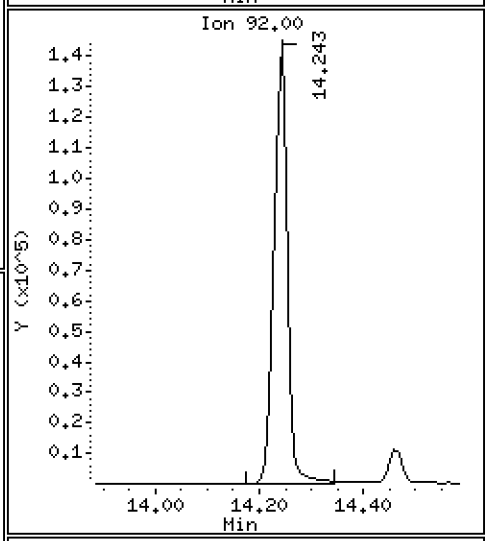


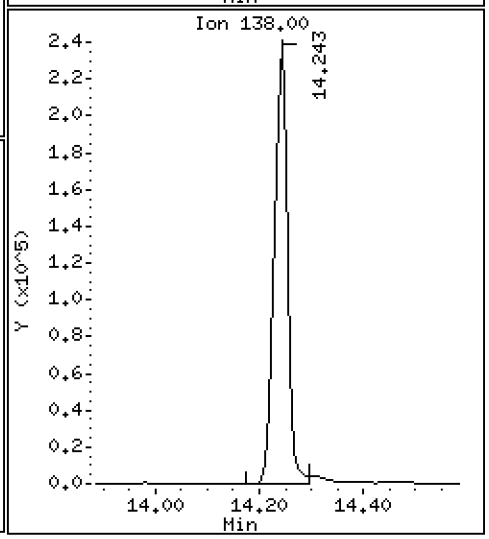












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

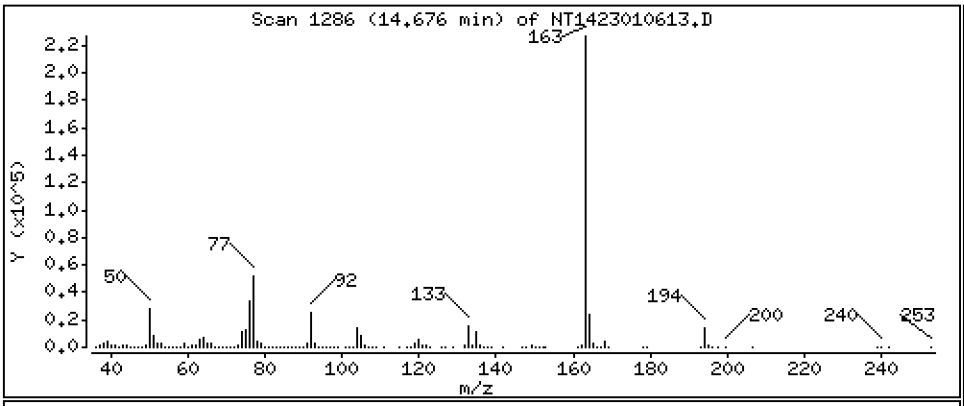
Operator: VTS

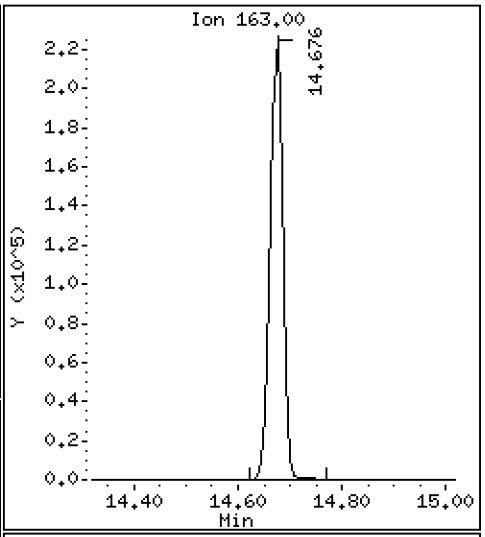
Column phase: ZB-5msi

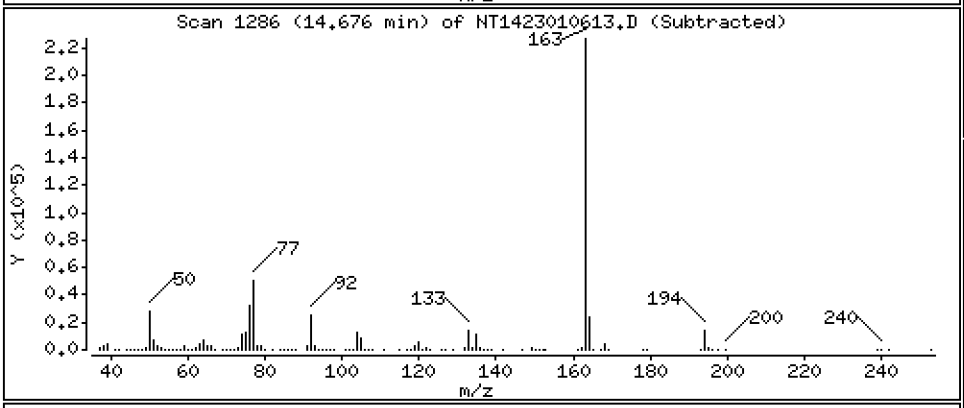
Column diameter: 0.25

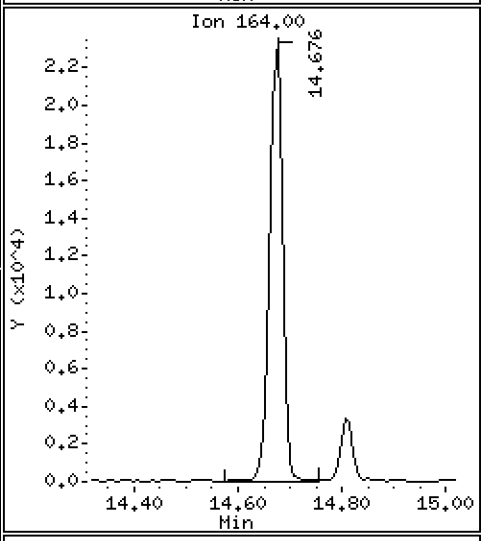
39 Dimethylphthalate

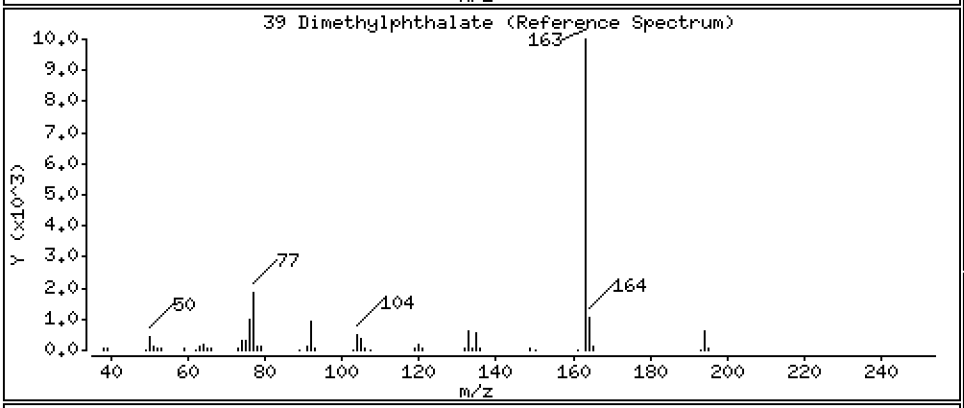
Concentration: 5.325 ug/mL

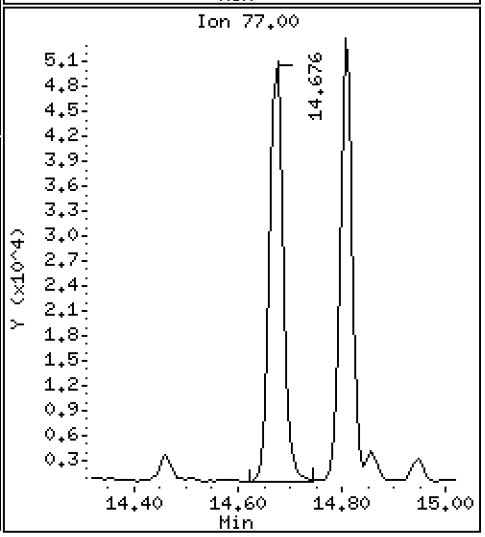


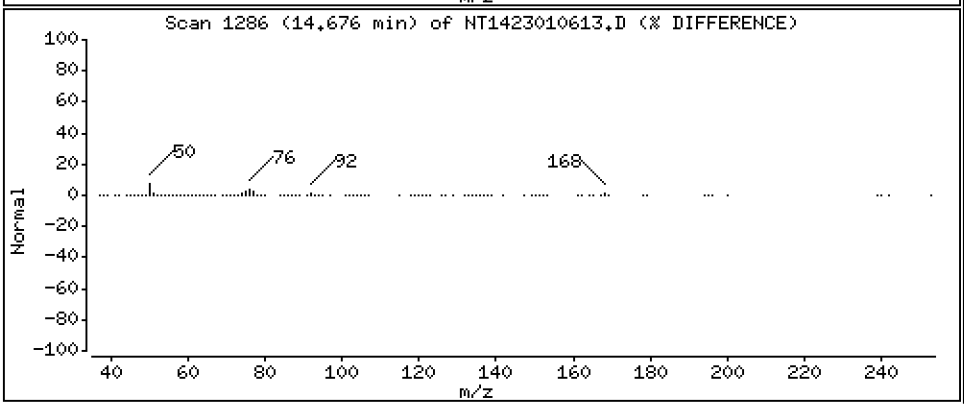












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

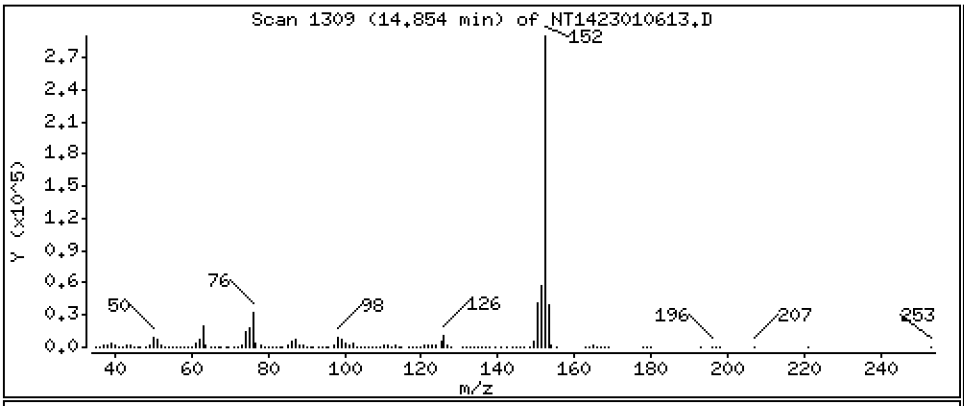
Operator: VTS

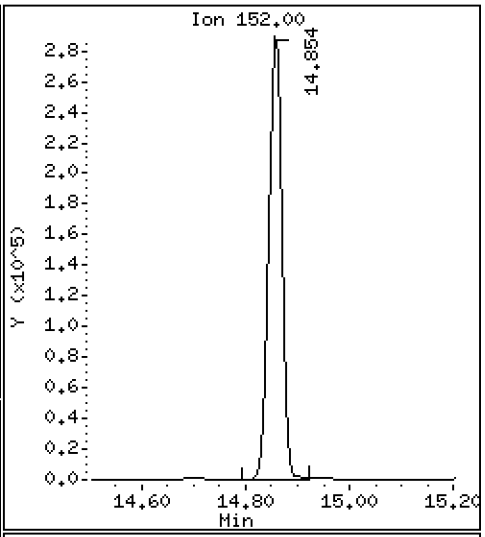
Column phase: ZB-5msi

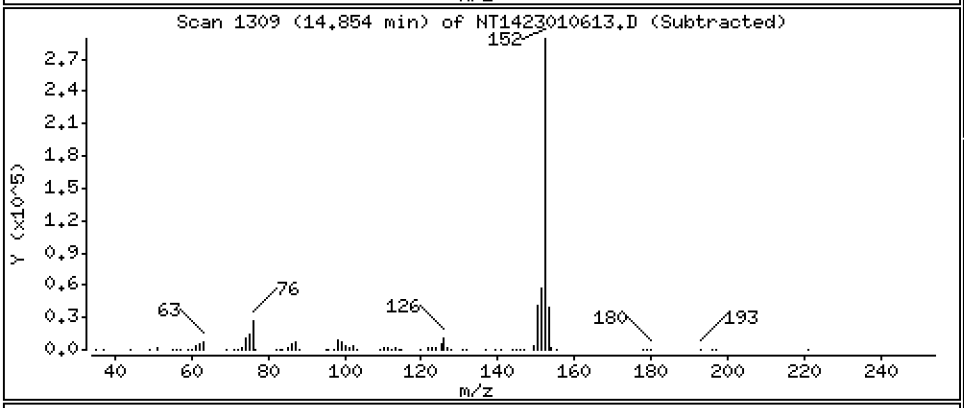
Column diameter: 0.25

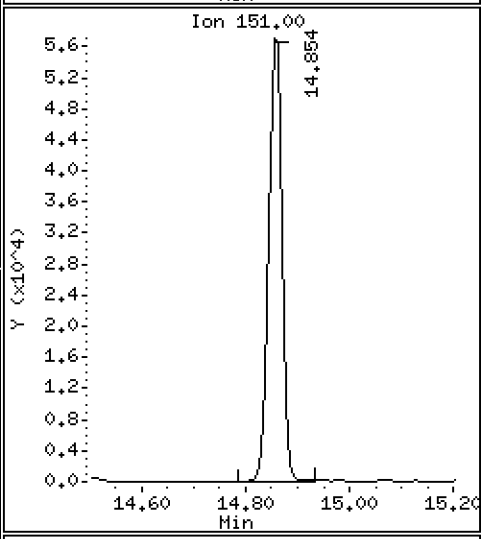
40 Acenaphthylene

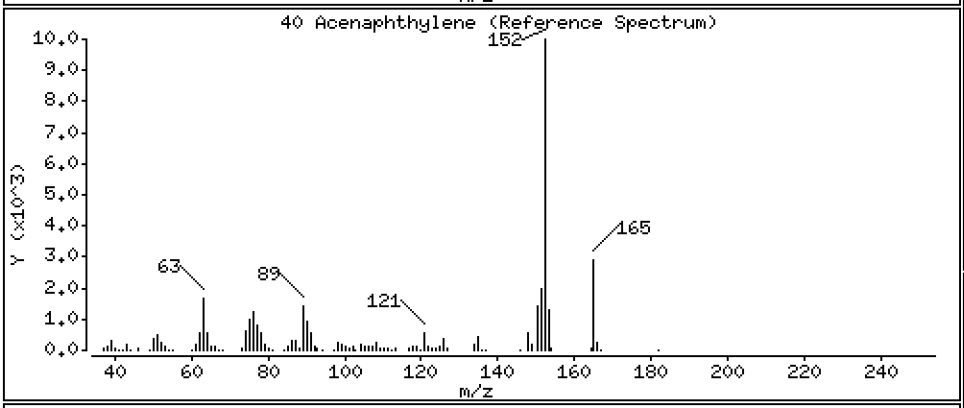
Concentration: 4.668 ug/mL

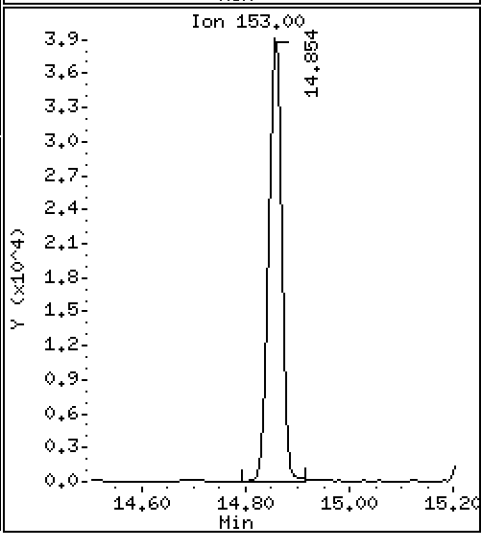


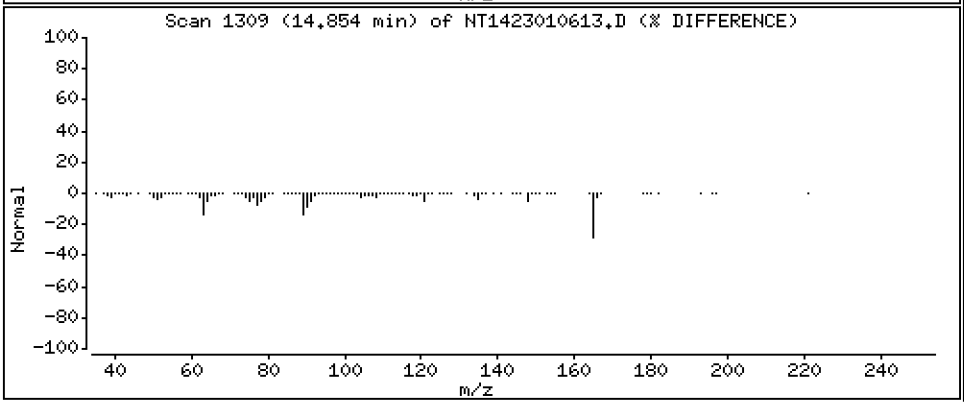












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

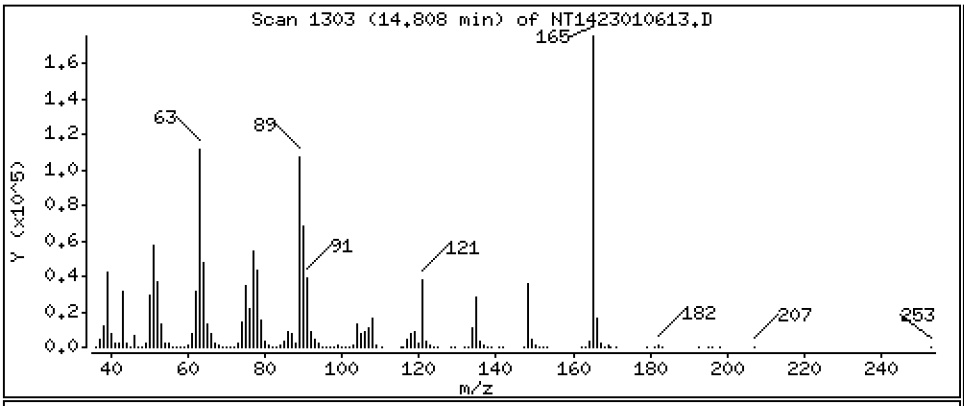
Operator: VTS

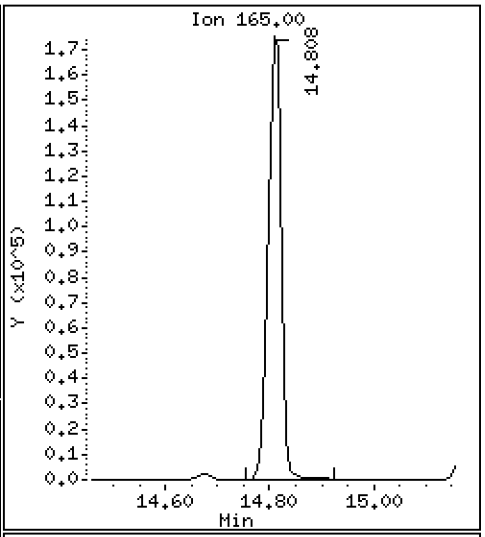
Column phase: ZB-5msi

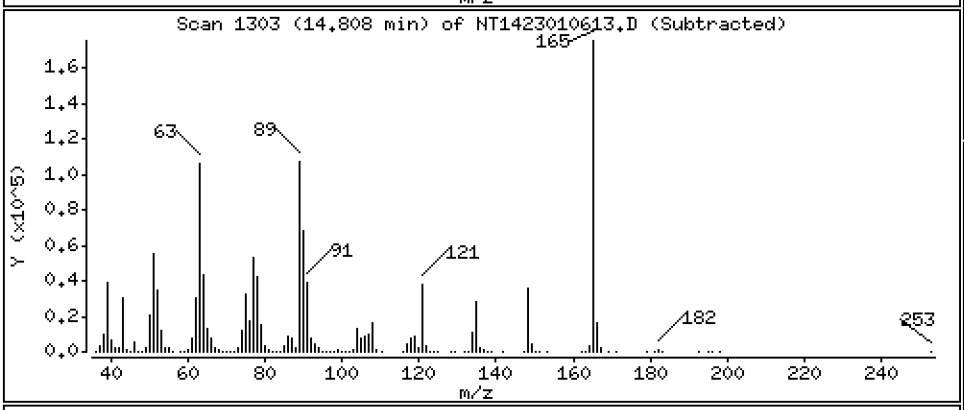
Column diameter: 0.25

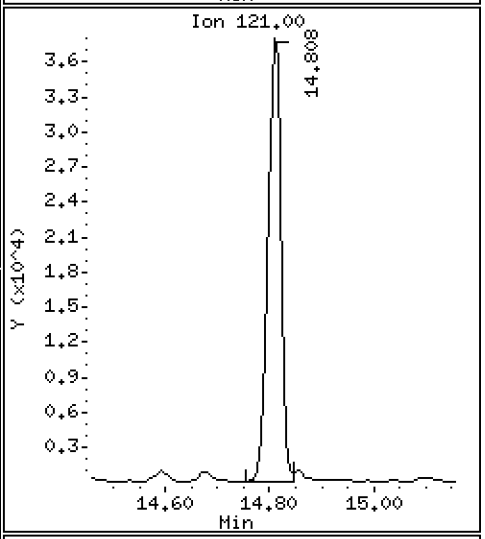
41 2,6-Dinitrotoluene

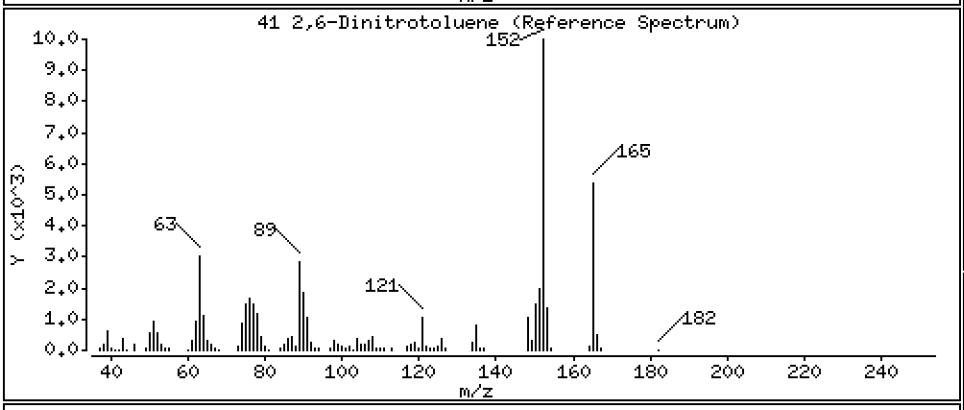
Concentration: 18.97 ug/mL

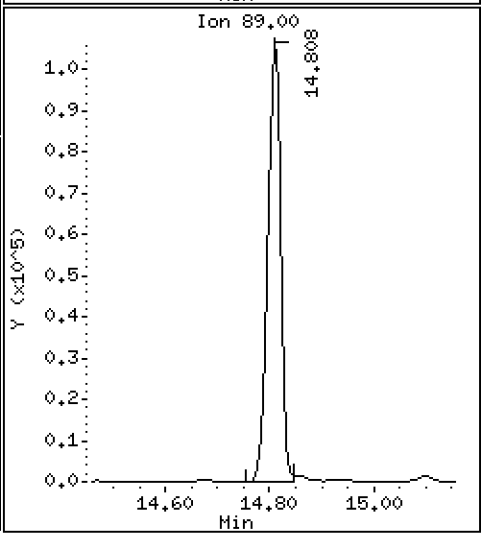


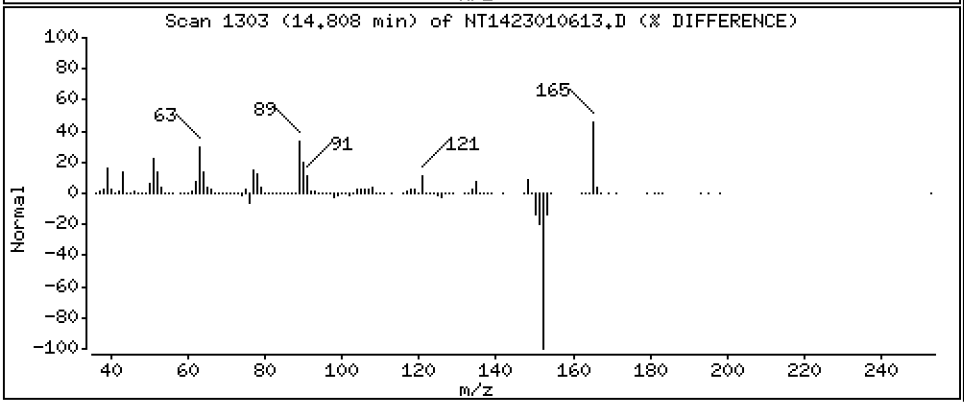












Date : 06-JAN-2023 18:50

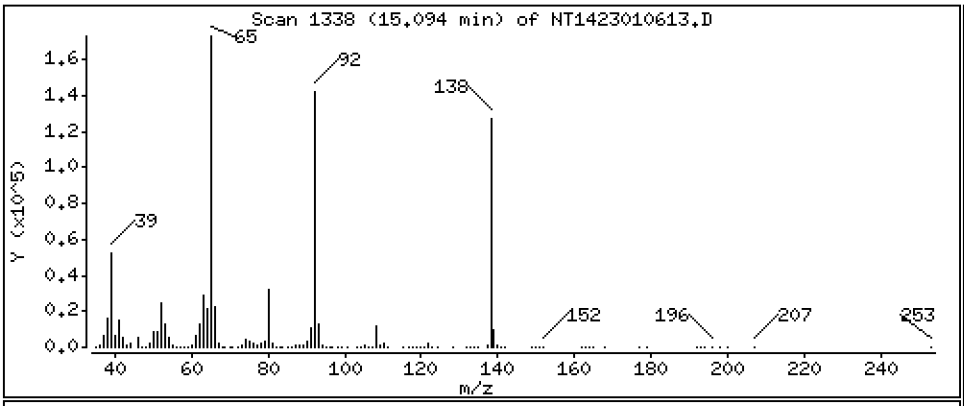
Client ID: Instrument: nt14.i

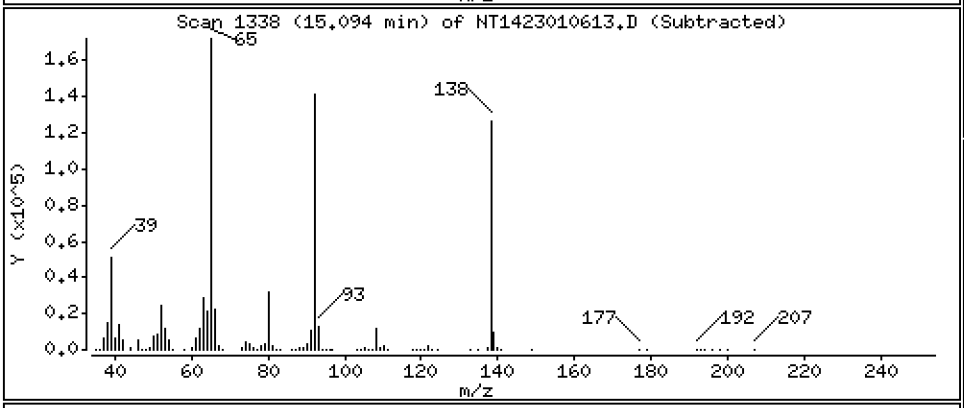
Sample Info: BKL0585-BSD1

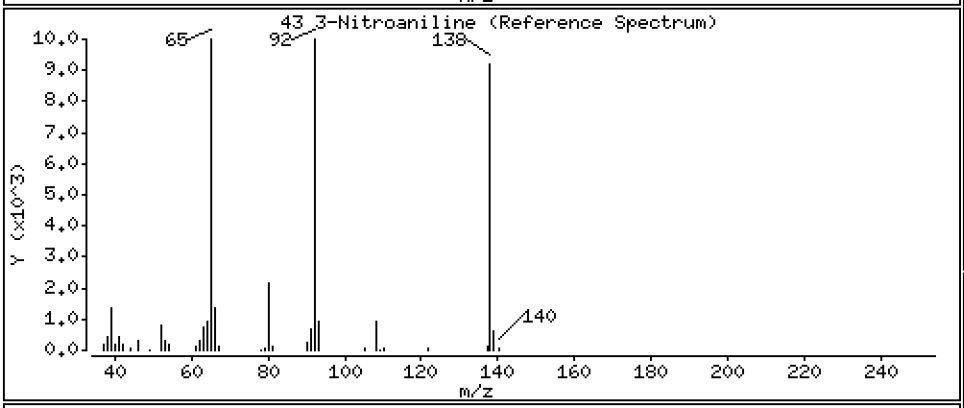
Operator: VTS

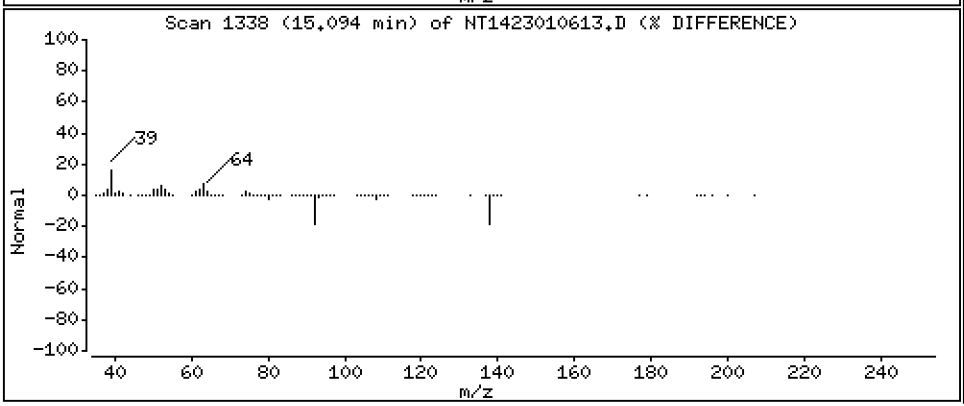
Column phase: ZB-5msi Column diameter: 0.25

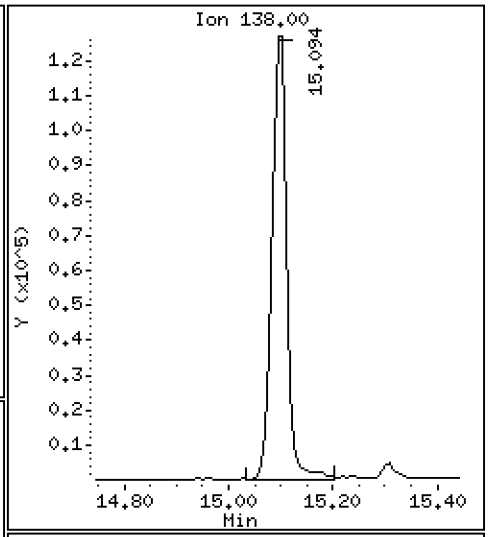
43 3-Nitroaniline Concentration: 12.91 ug/mL

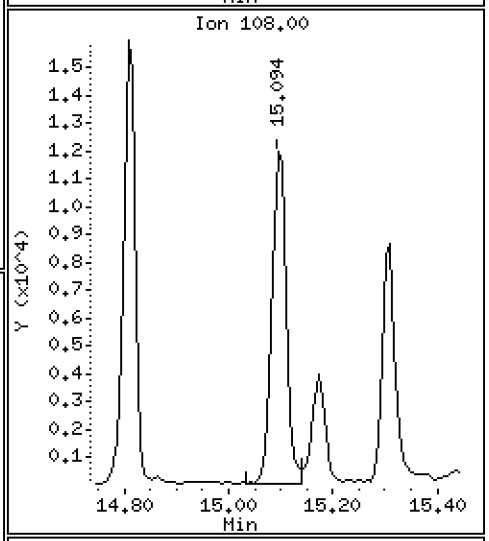


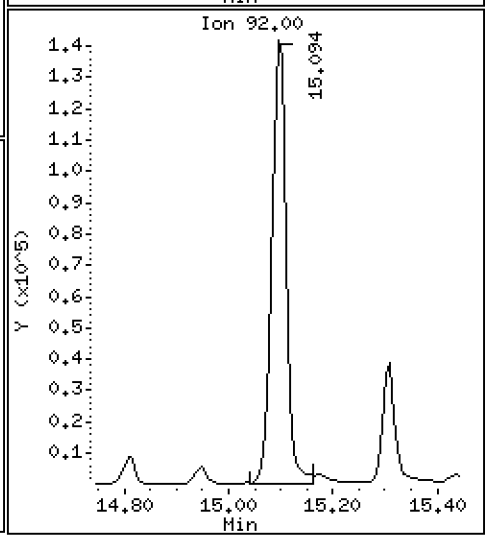












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

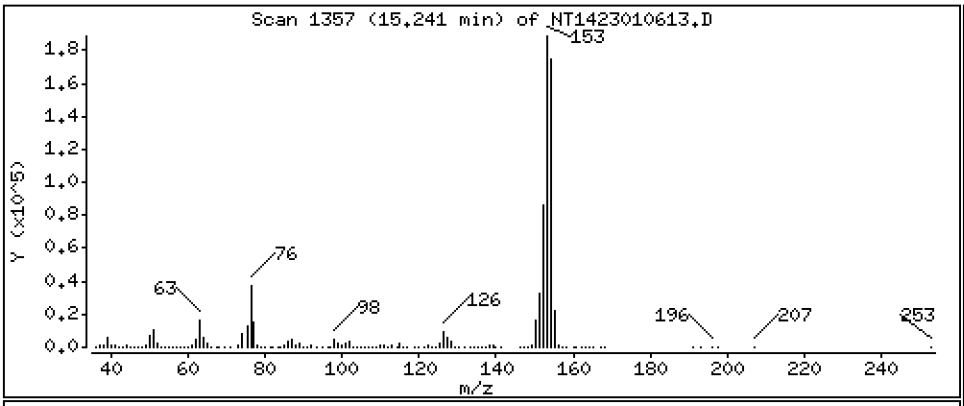
Operator: VTS

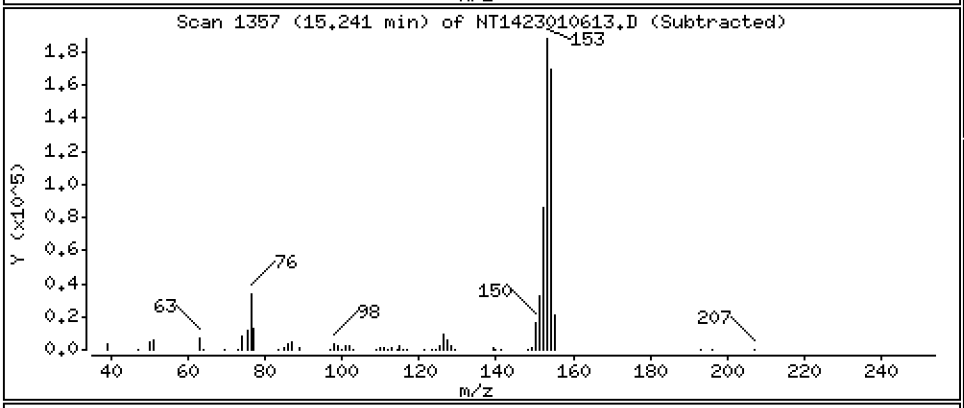
Column phase: ZB-5msi

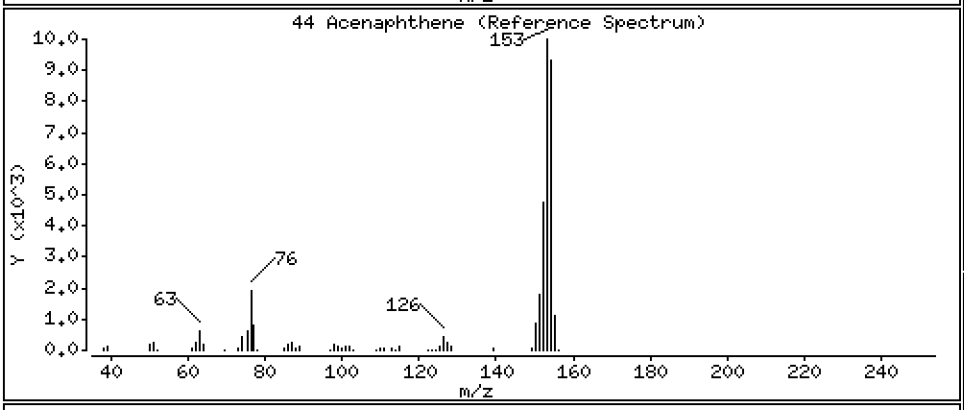
Column diameter: 0.25

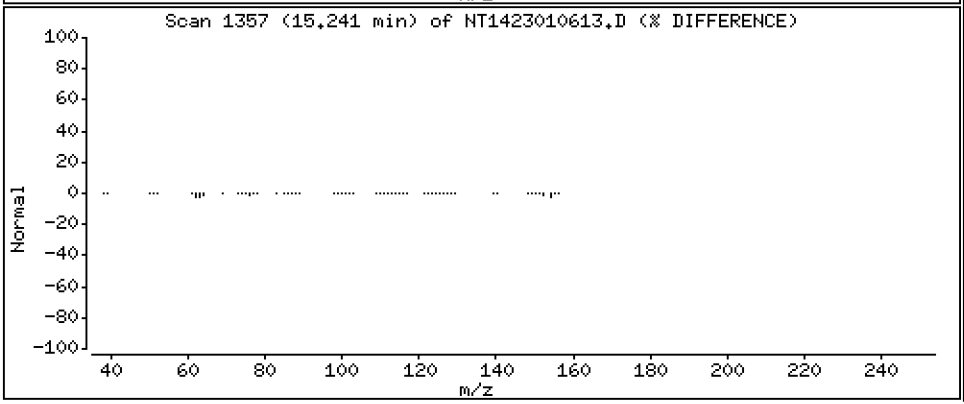
44 Acenaphthene

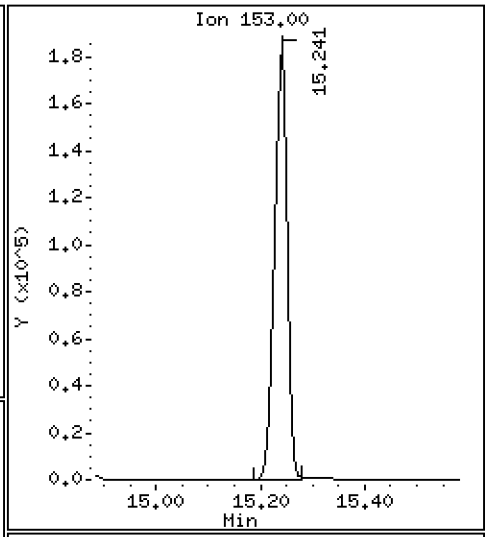
Concentration: 4.605 ug/mL

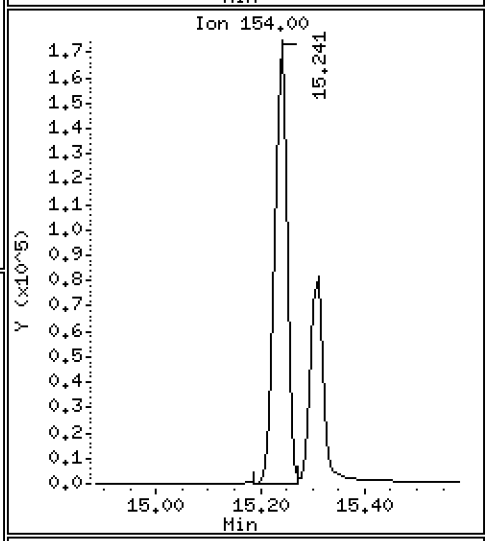


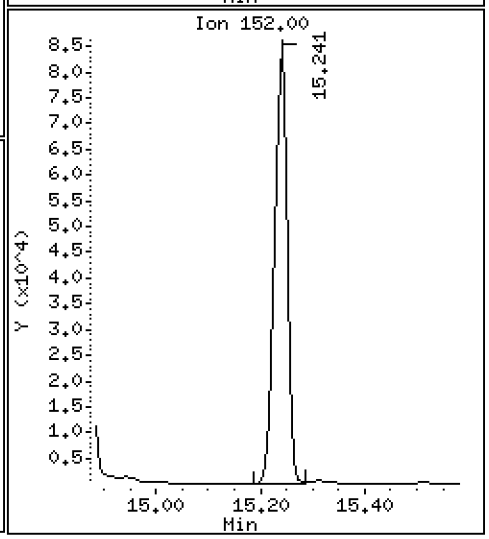












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

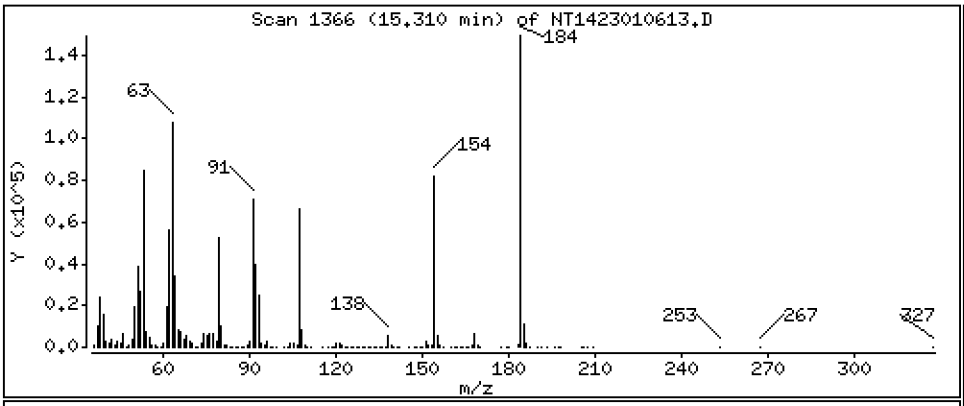
Operator: VTS

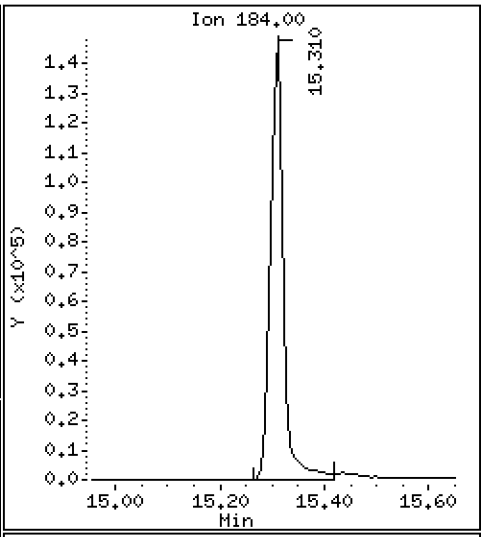
Column phase: ZB-5msi

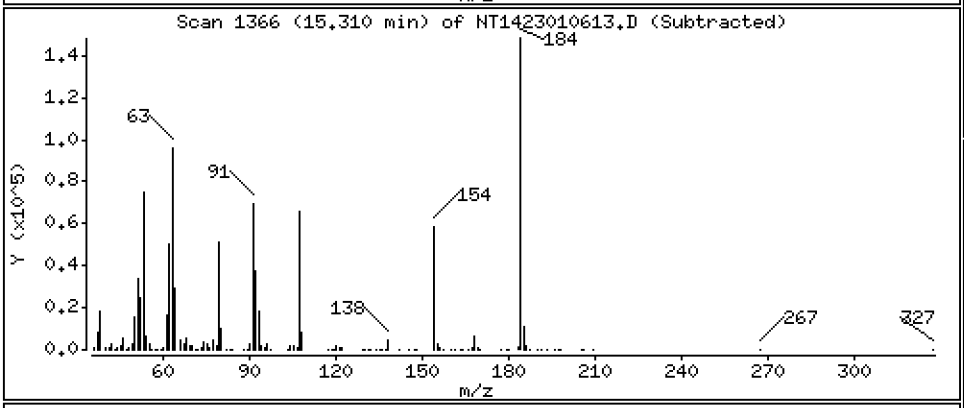
Column diameter: 0.25

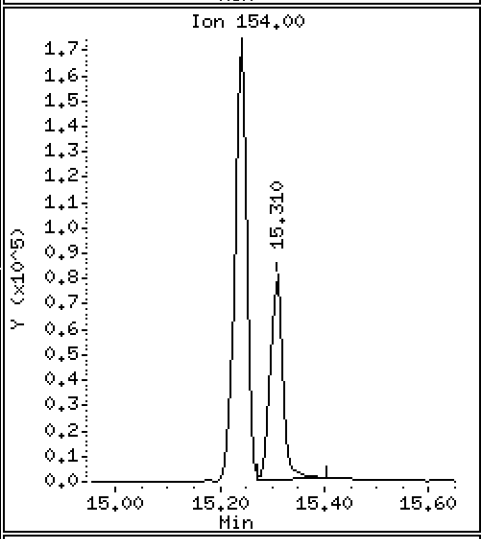
45 2,4-Dinitrophenol

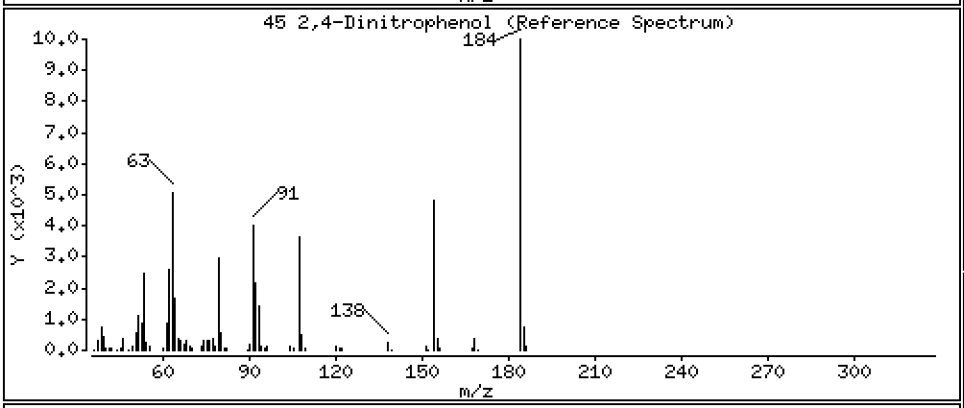
Concentration: 18.19 ug/mL

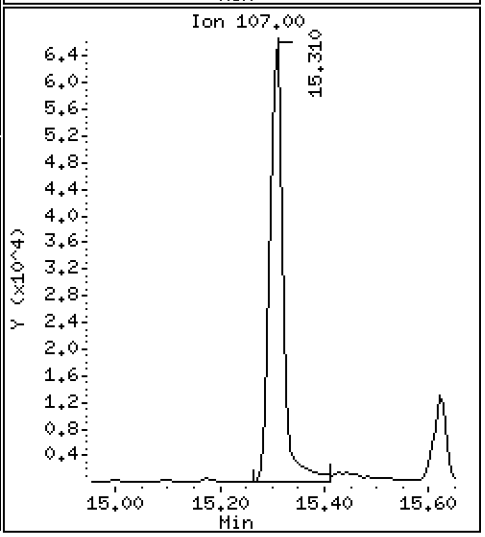


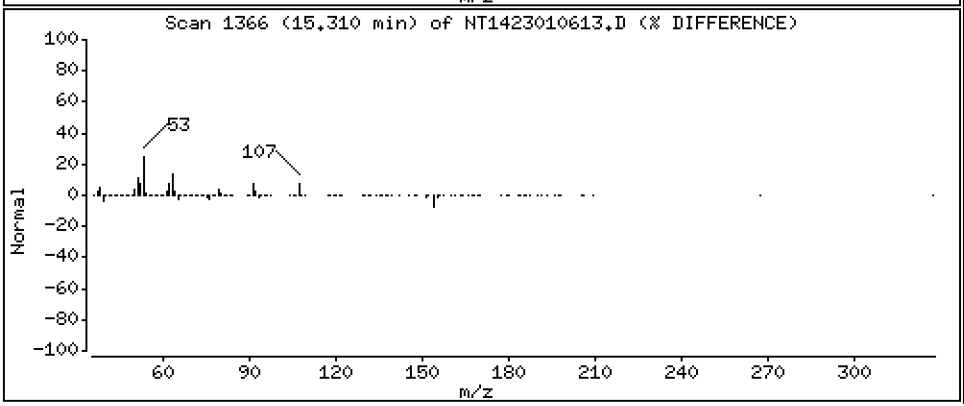












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

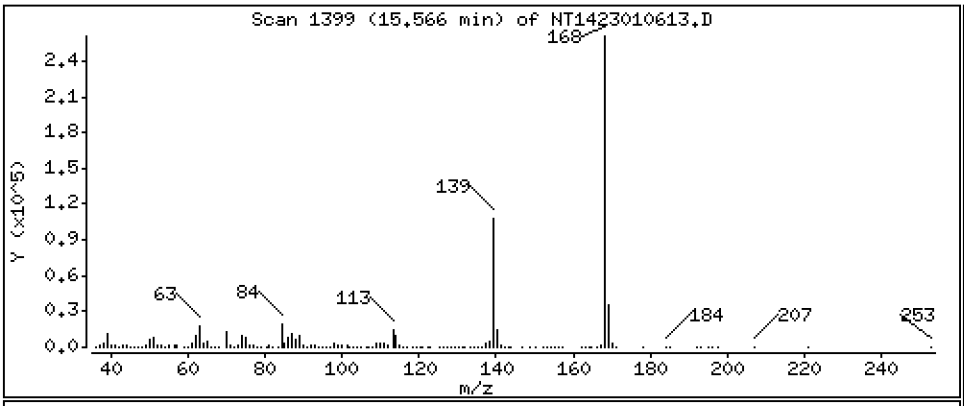
Operator: VTS

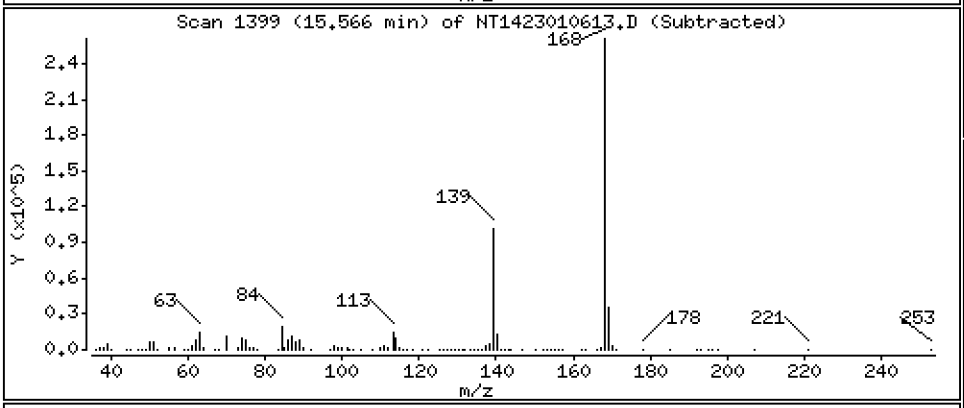
Column phase: ZB-5msi

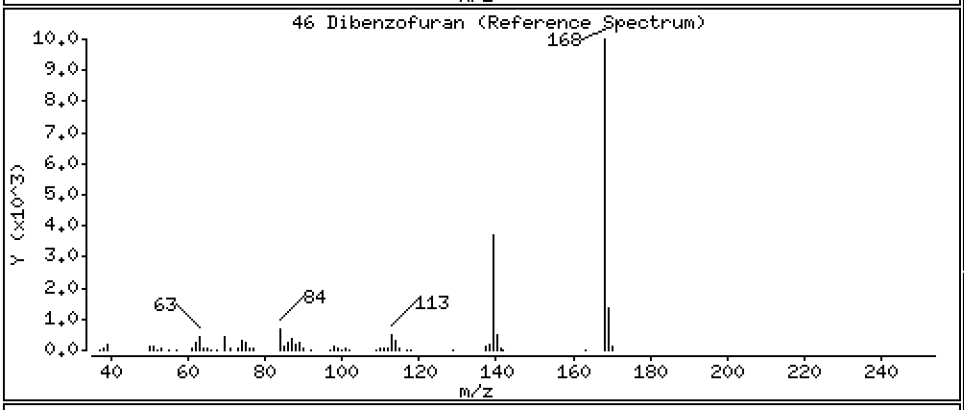
Column diameter: 0.25

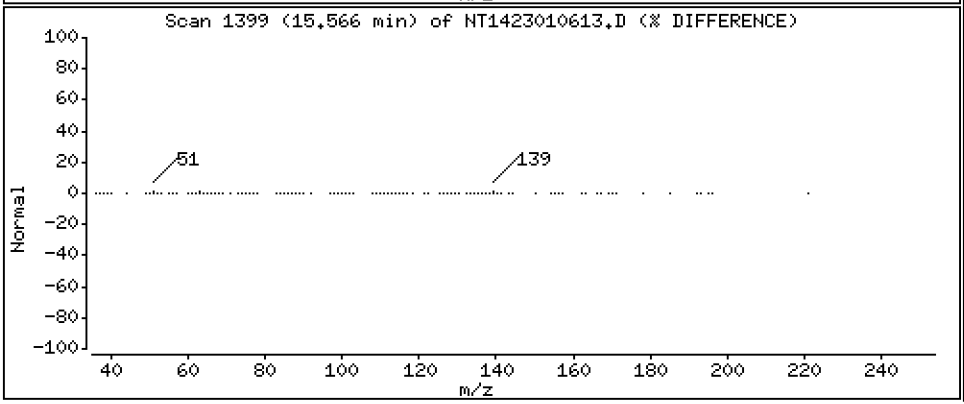
46 Dibenzofuran

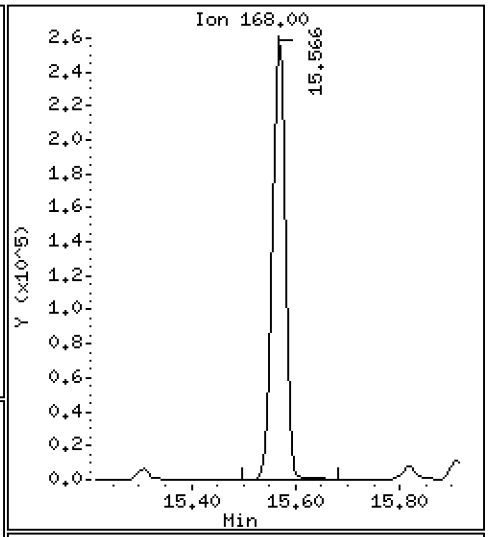
Concentration: 4.377 ug/mL

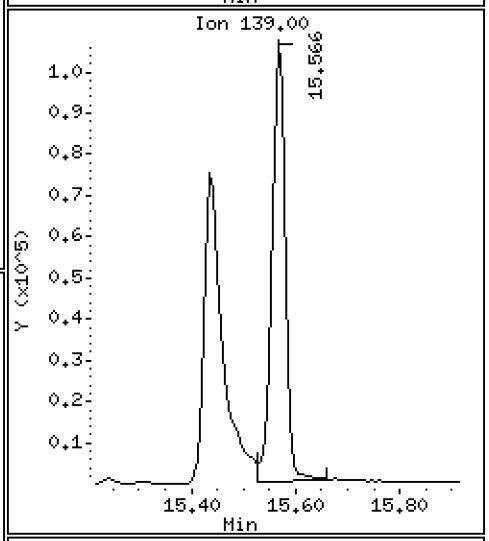


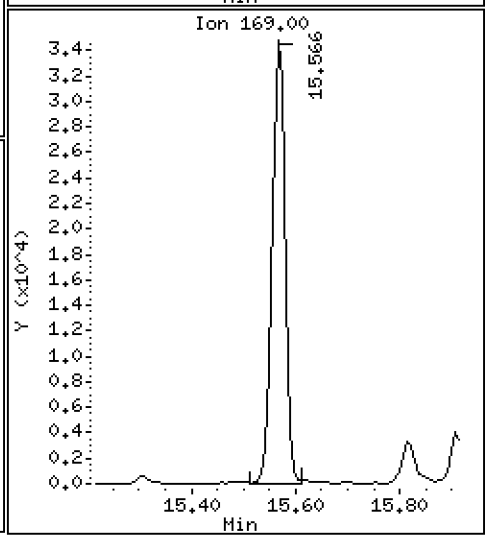












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

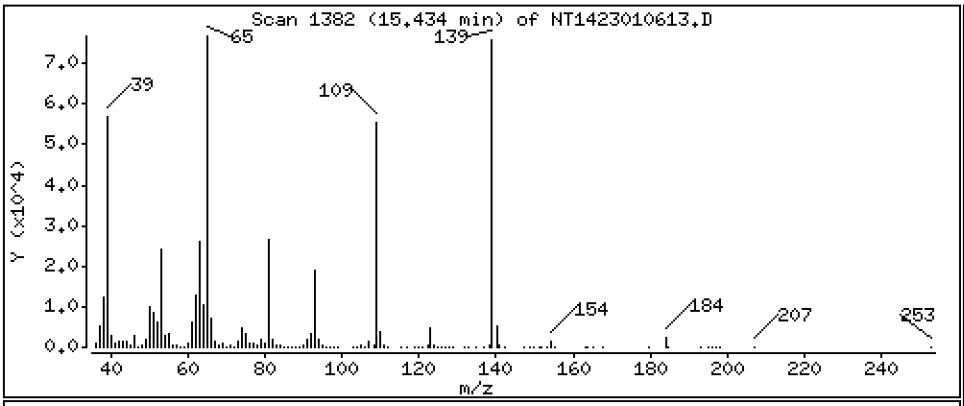
Operator: VTS

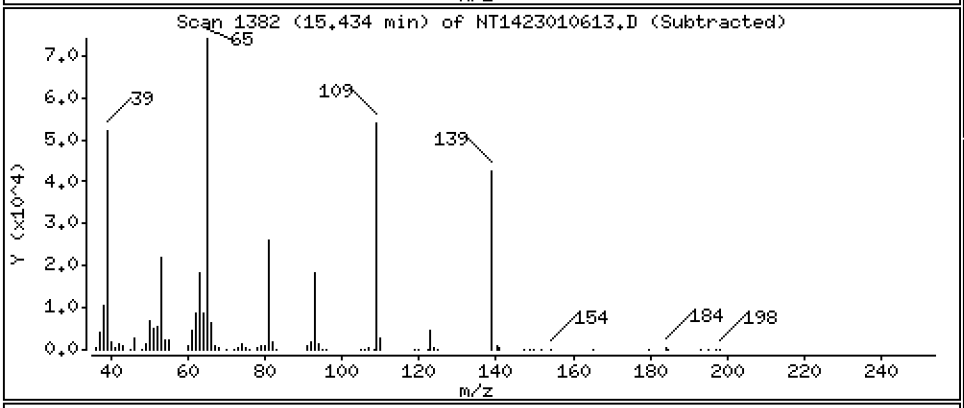
Column phase: ZB-5msi

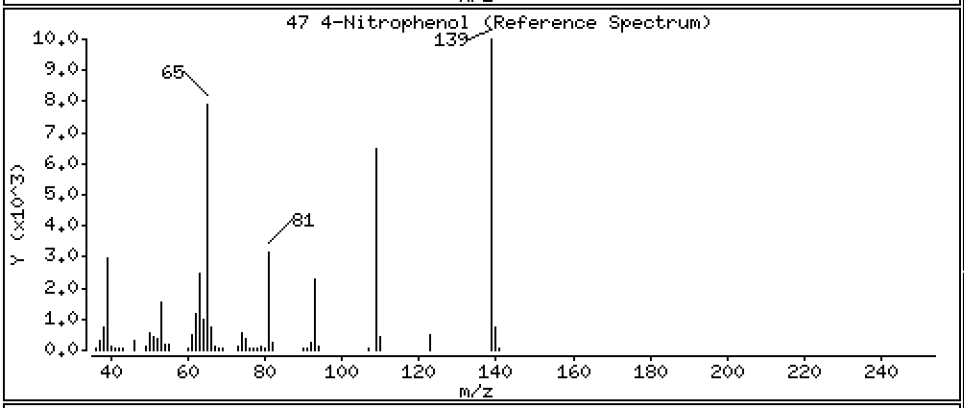
Column diameter: 0.25

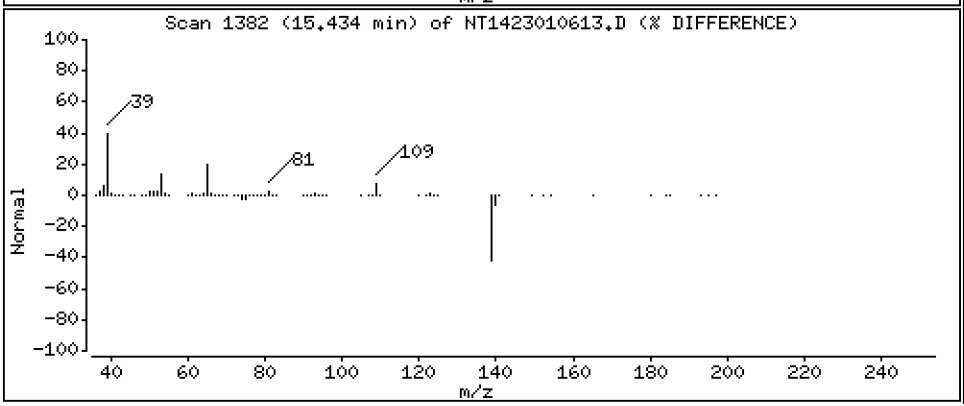
47 4-Nitrophenol

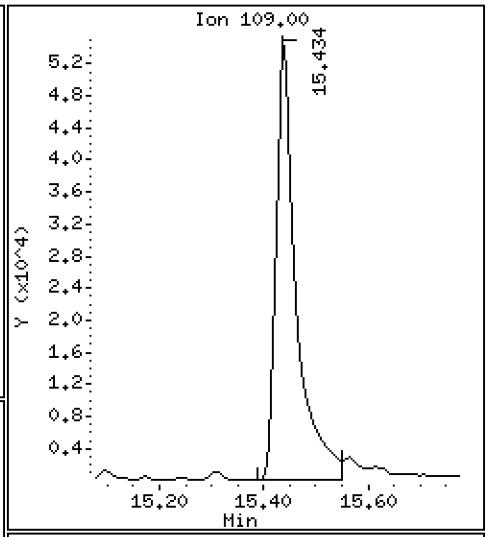
Concentration: 15.84 ug/mL

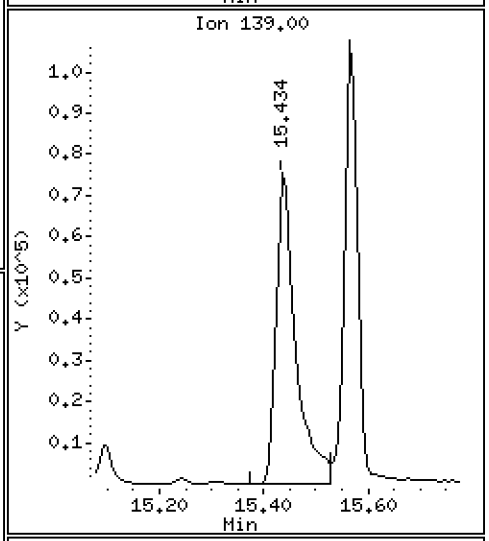


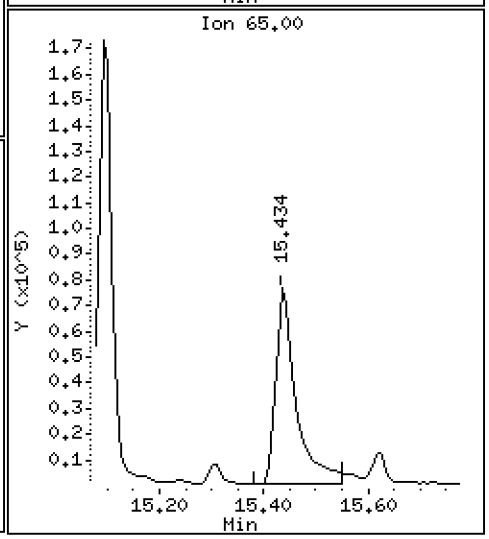












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

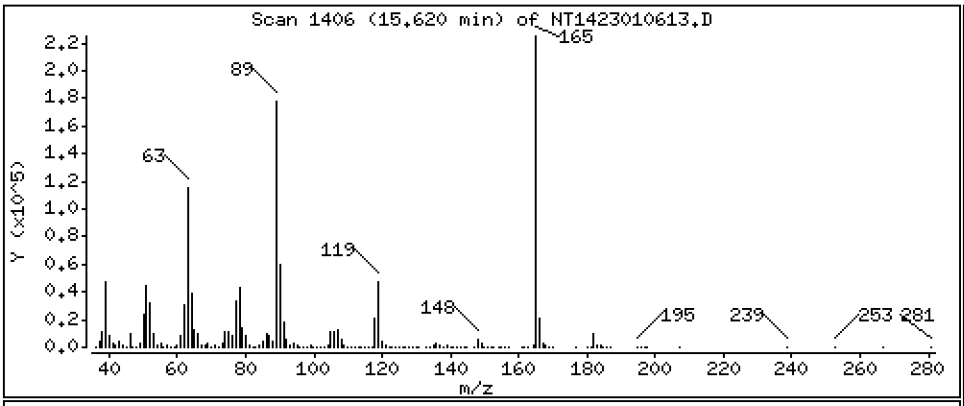
Operator: VTS

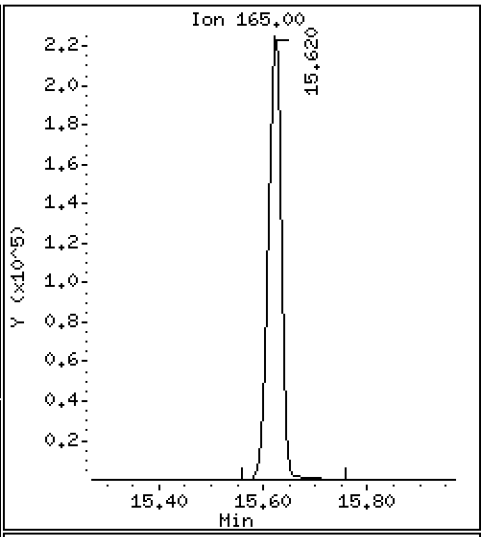
Column phase: ZB-5msi

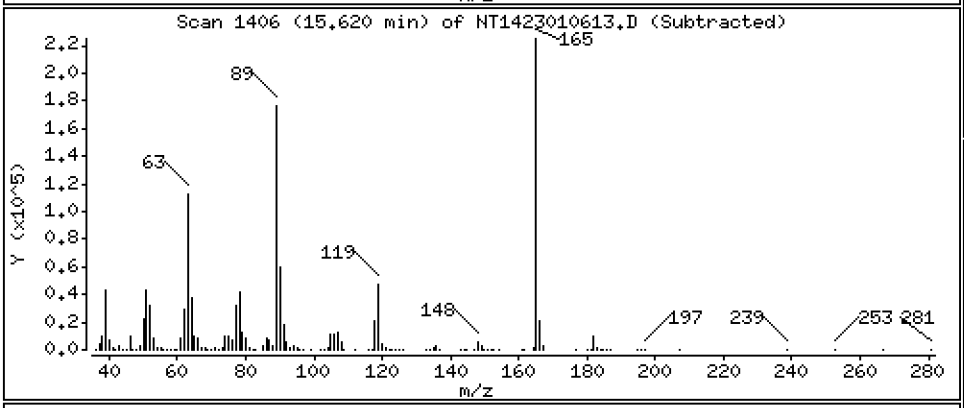
Column diameter: 0.25

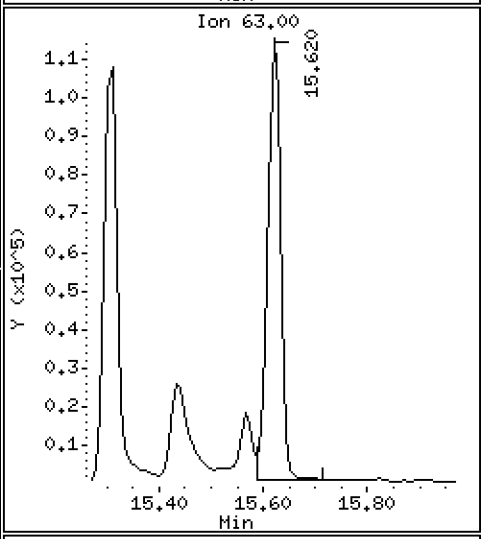
48 2,4-Dinitrotoluene

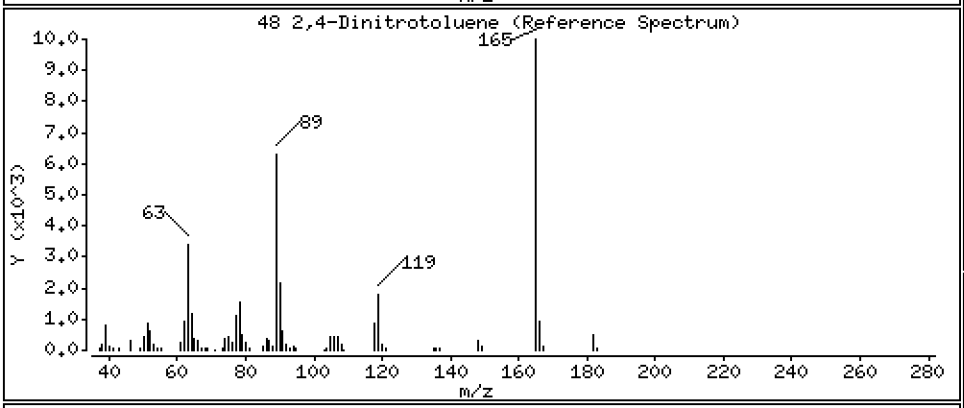
Concentration: 17.77 ug/mL

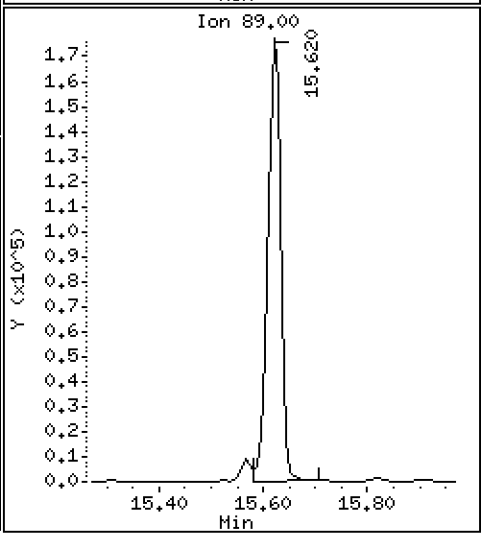


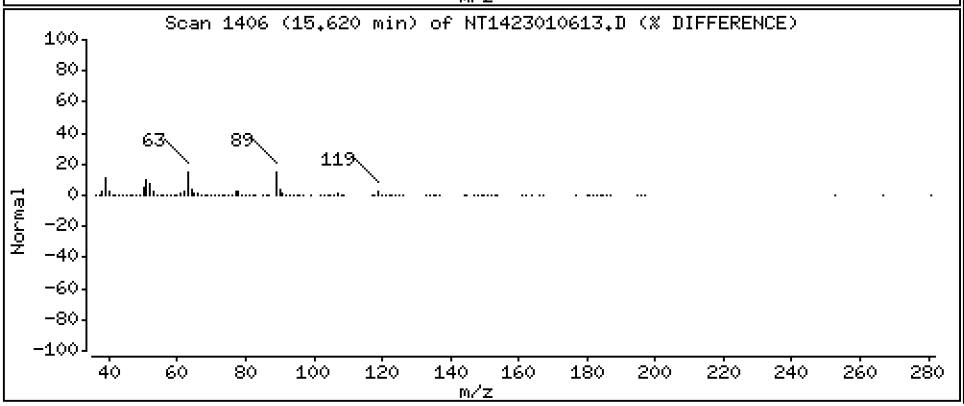












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

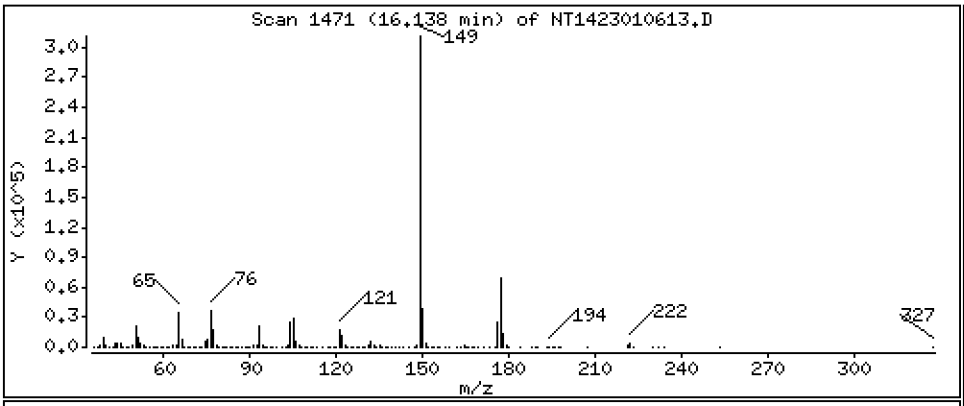
Operator: VTS

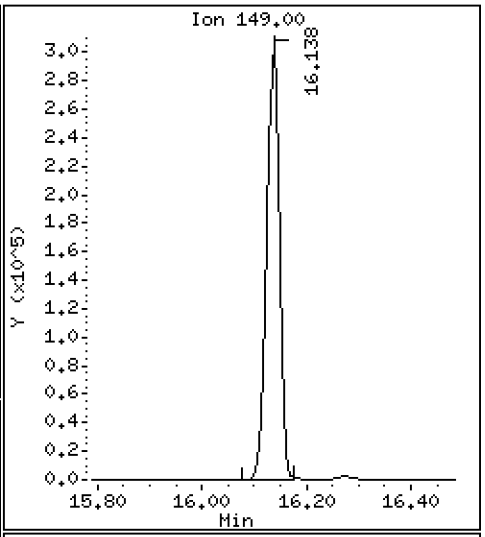
Column phase: ZB-5msi

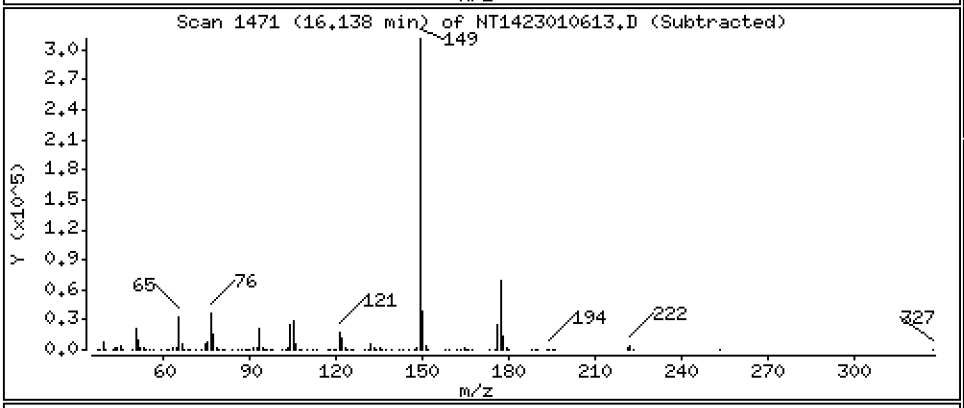
Column diameter: 0.25

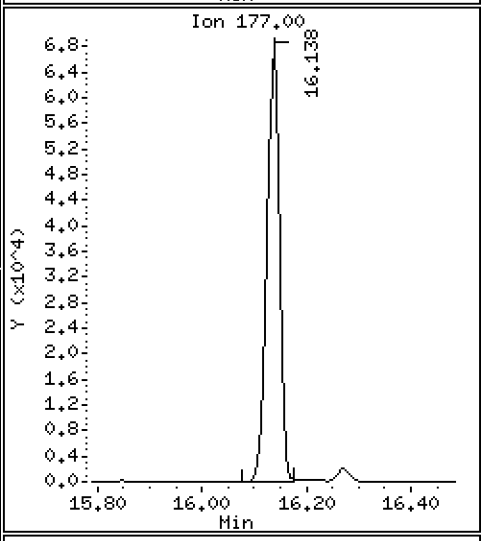
50 Diethylphthalate

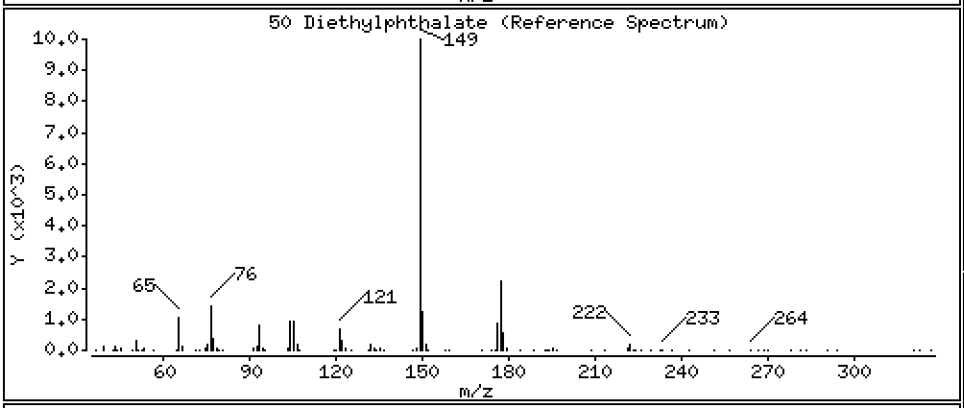
Concentration: 5.296 ug/mL

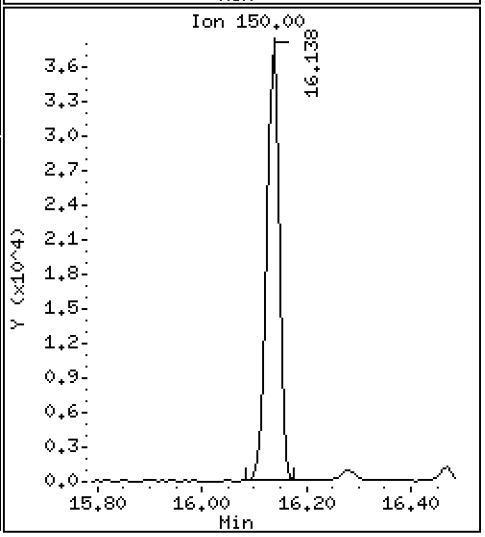


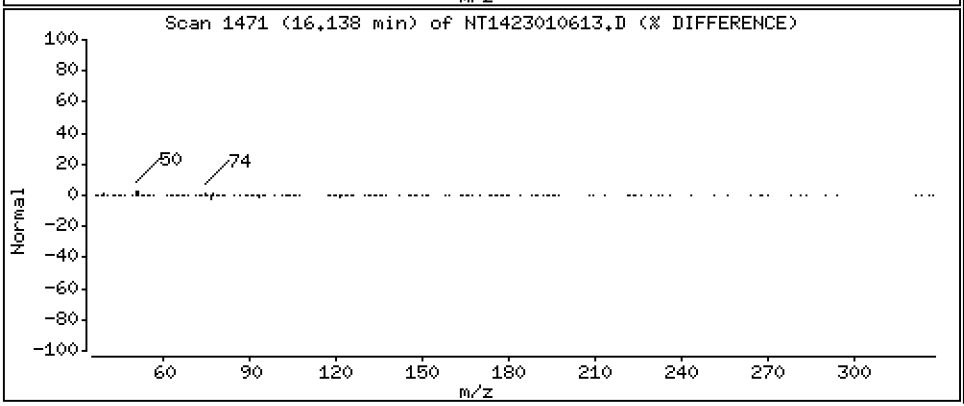












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

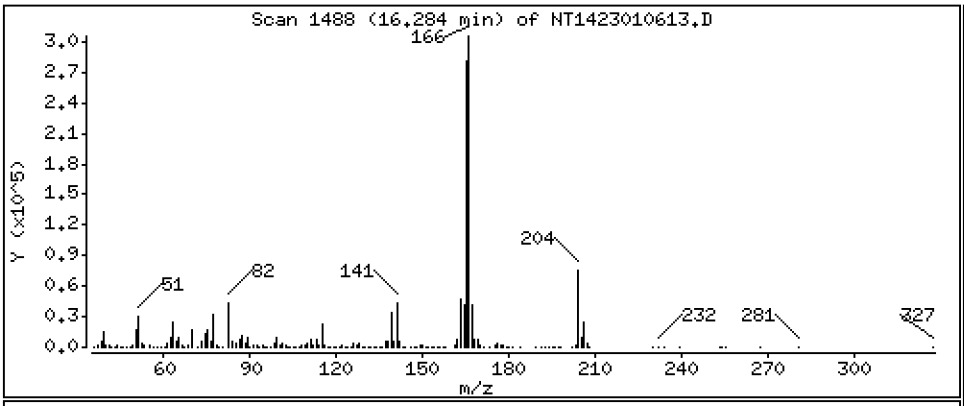
Operator: VTS

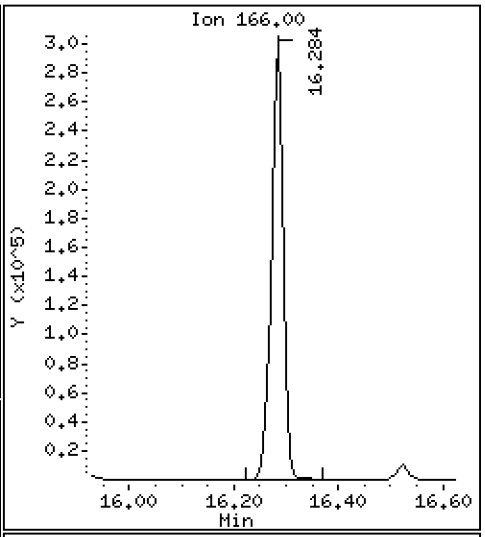
Column phase: ZB-5msi

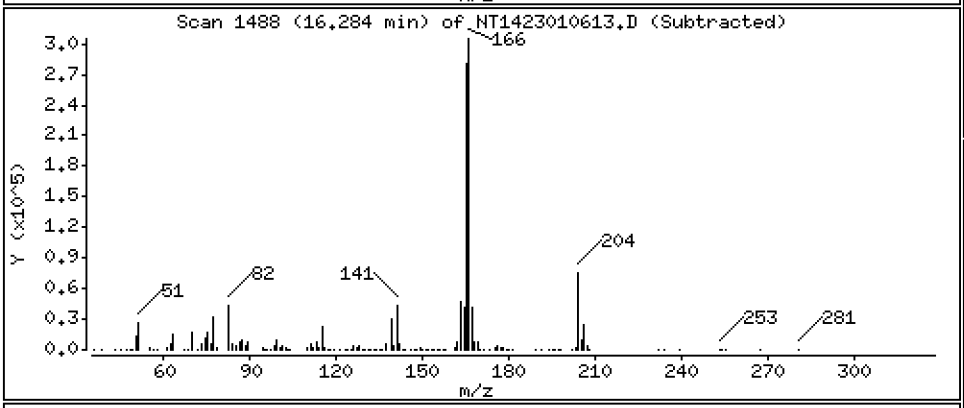
Column diameter: 0.25

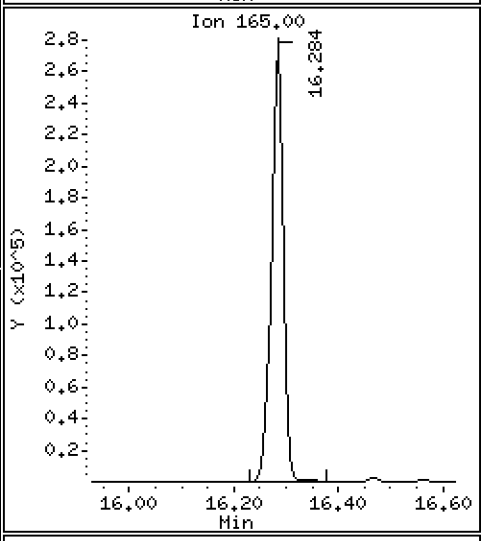
49 Fluorene

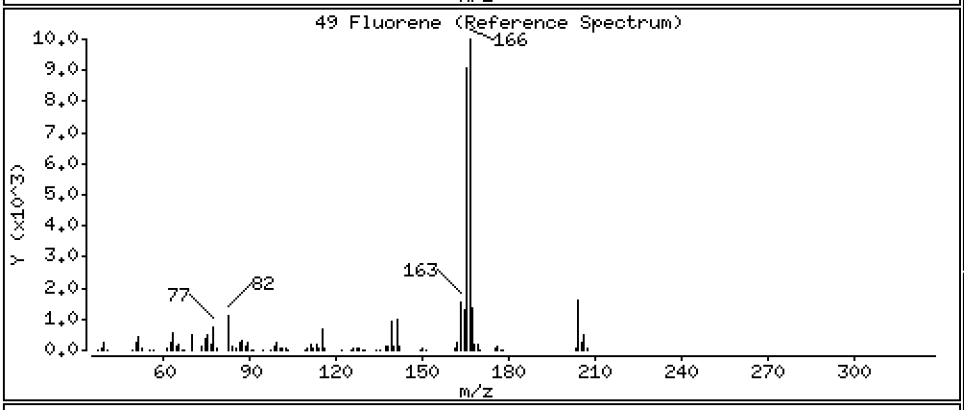
Concentration: 4.606 ug/mL

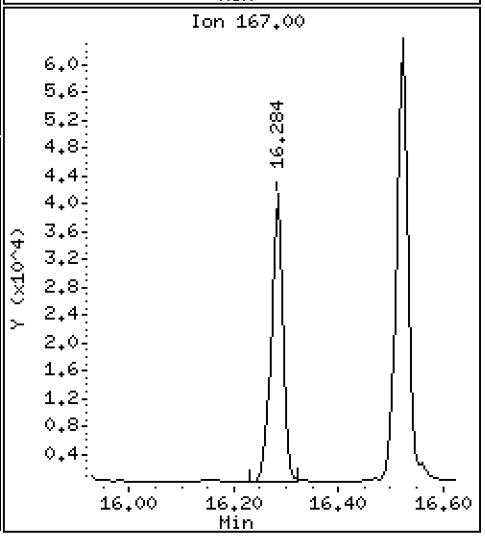


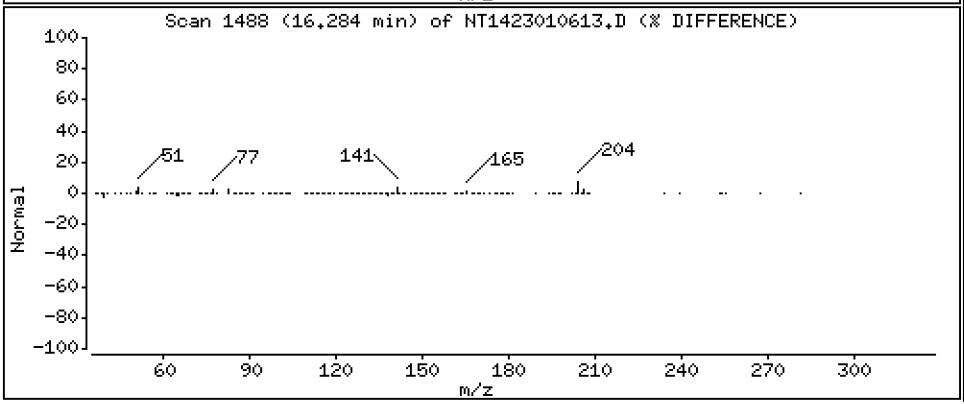












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

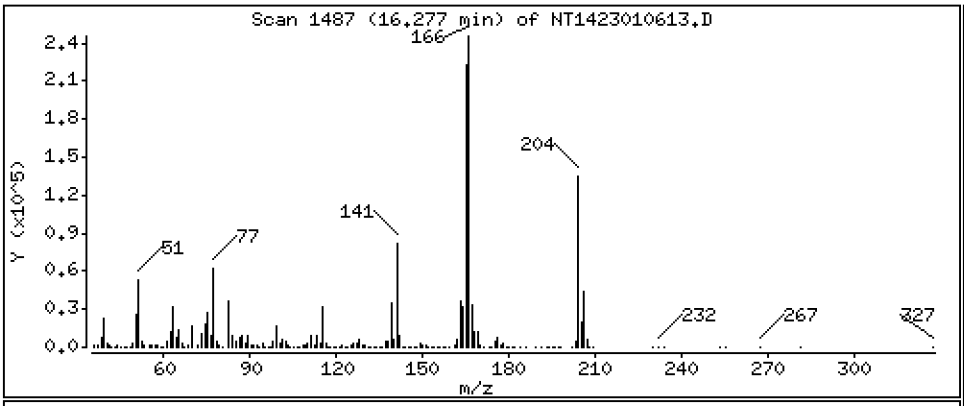
Operator: VTS

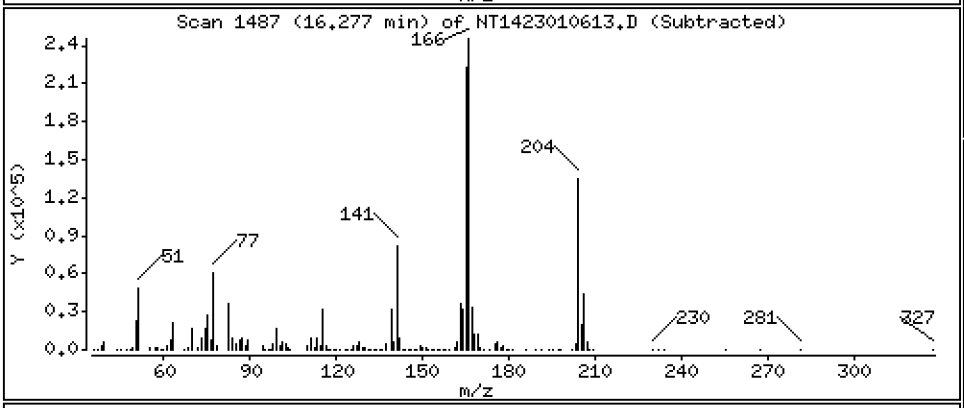
Column phase: ZB-5msi

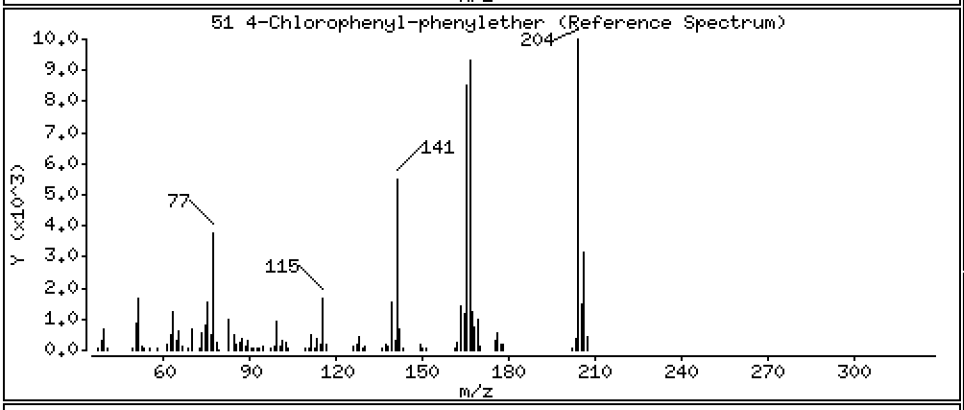
Column diameter: 0.25

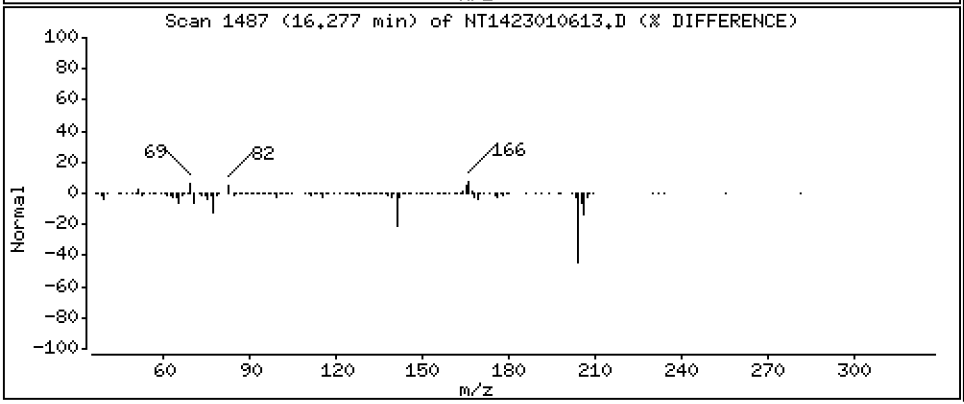
51 4-Chlorophenyl-phenylether

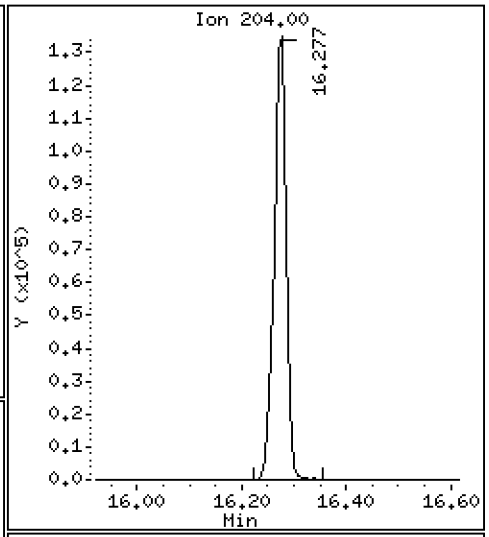
Concentration: 4.277 ug/mL

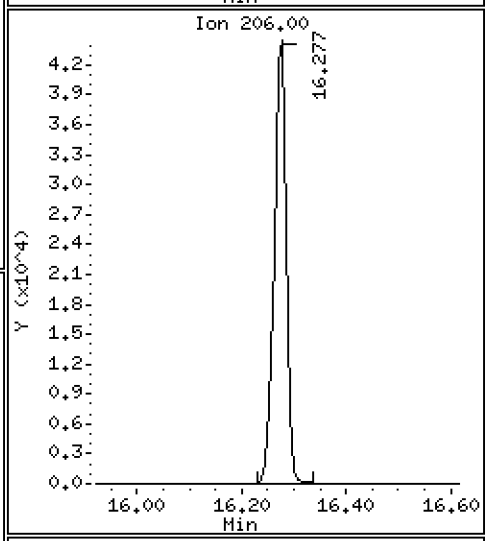


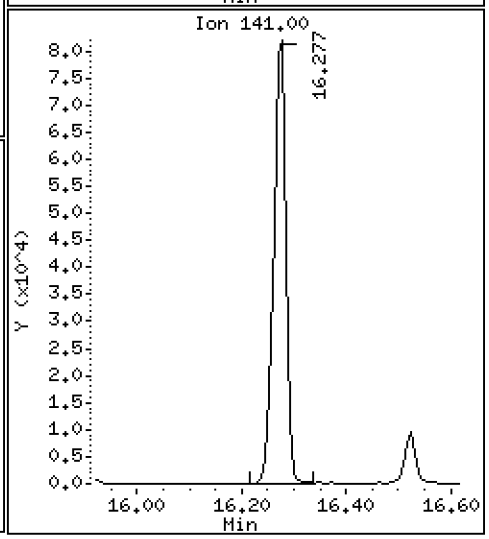












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

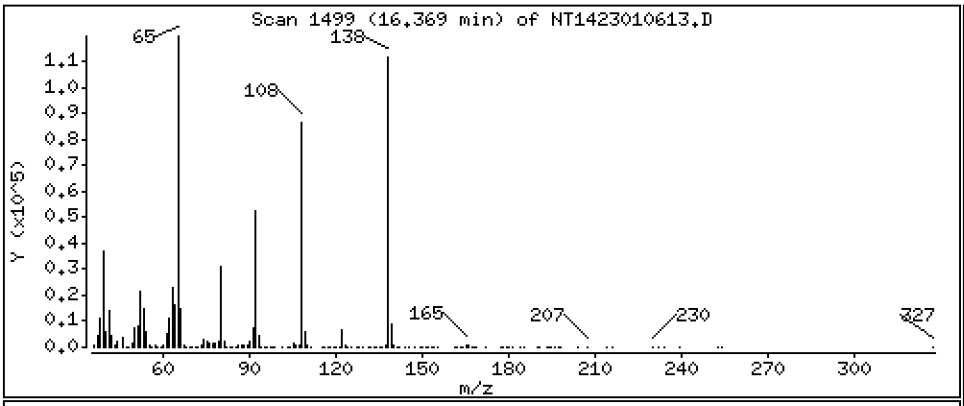
Operator: VTS

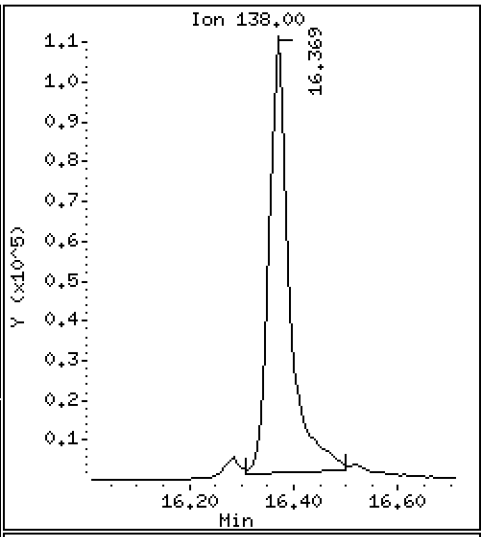
Column phase: ZB-5msi

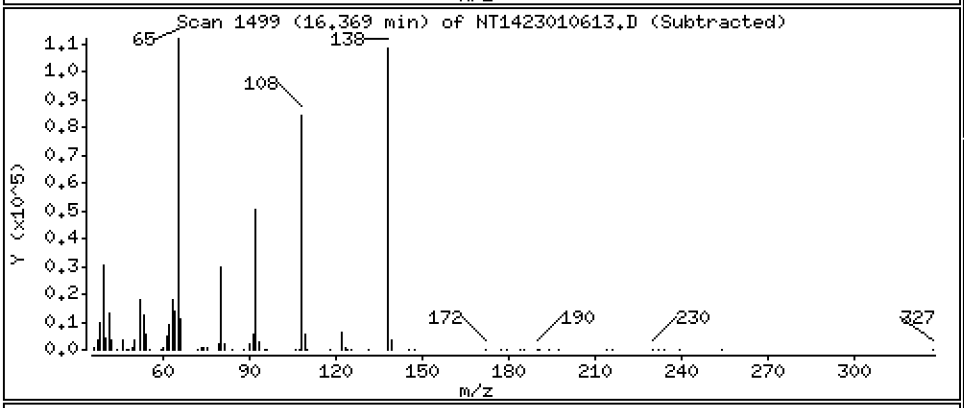
Column diameter: 0.25

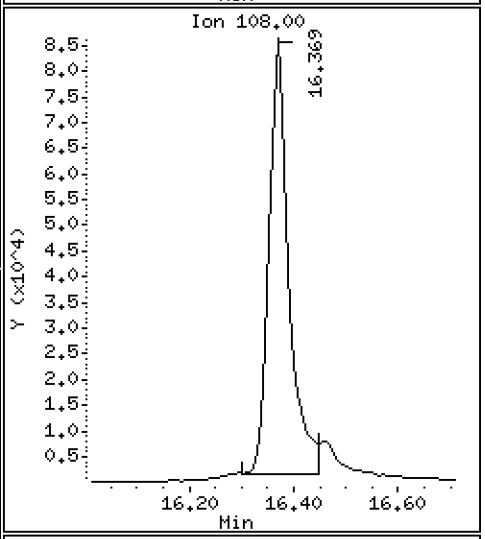
52 4-Nitroaniline

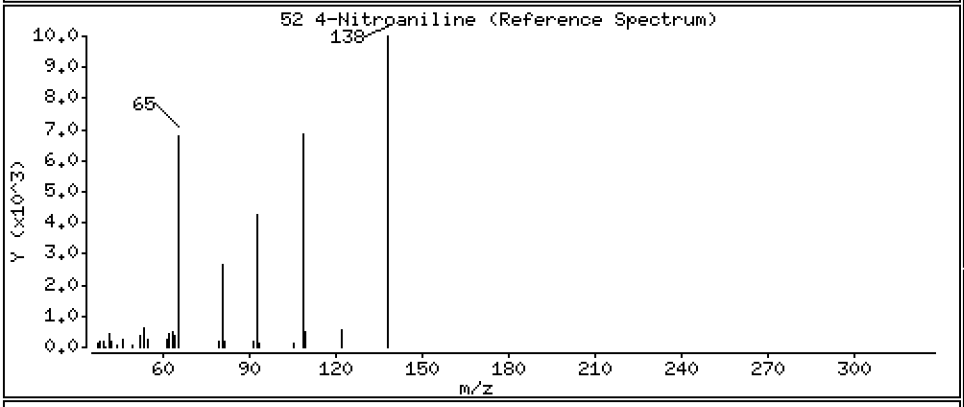
Concentration: 12.72 ug/mL

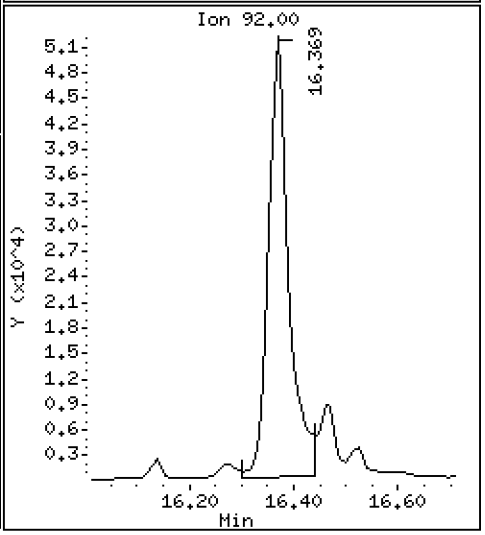


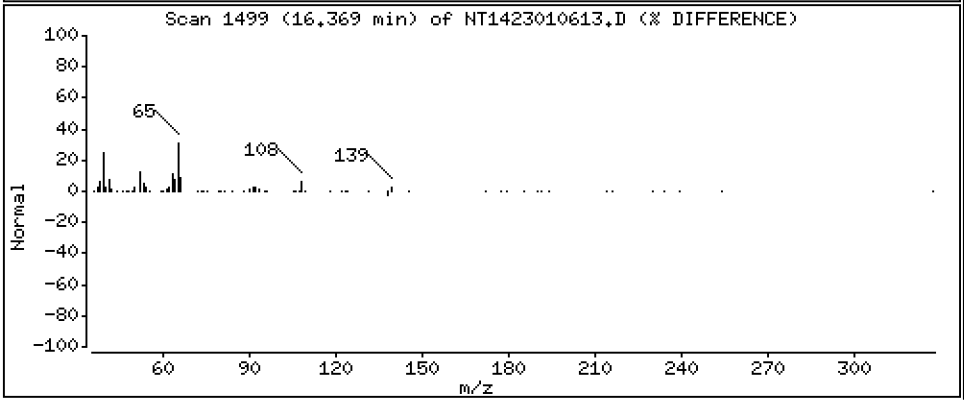












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

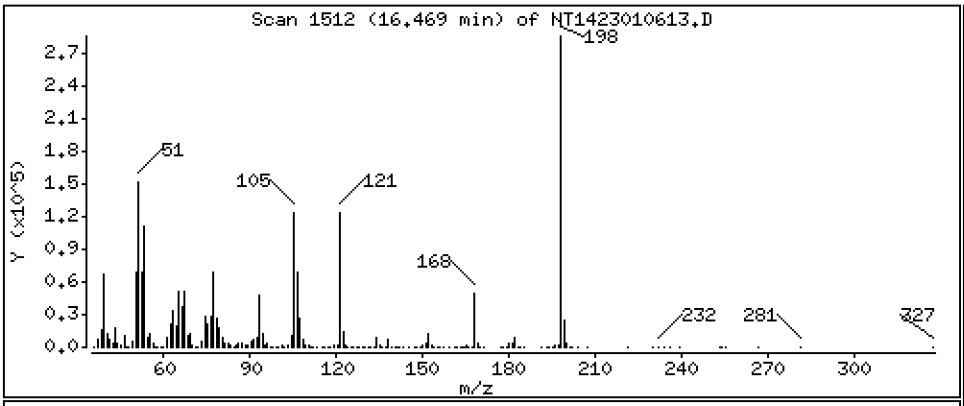
Operator: VTS

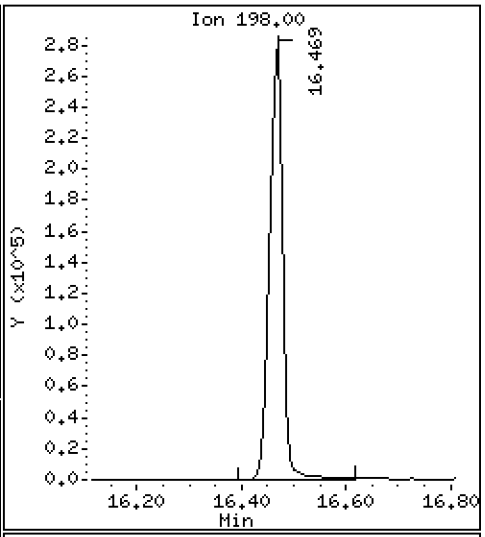
Column phase: ZB-5msi

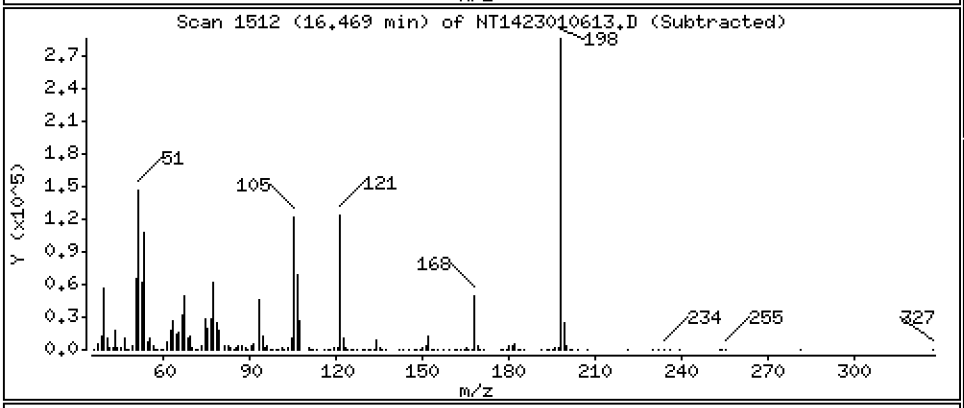
Column diameter: 0.25

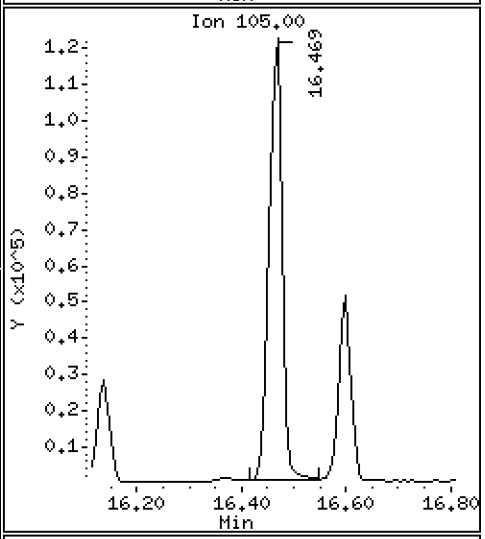
53 4,6-Dinitro-2-methylphenol

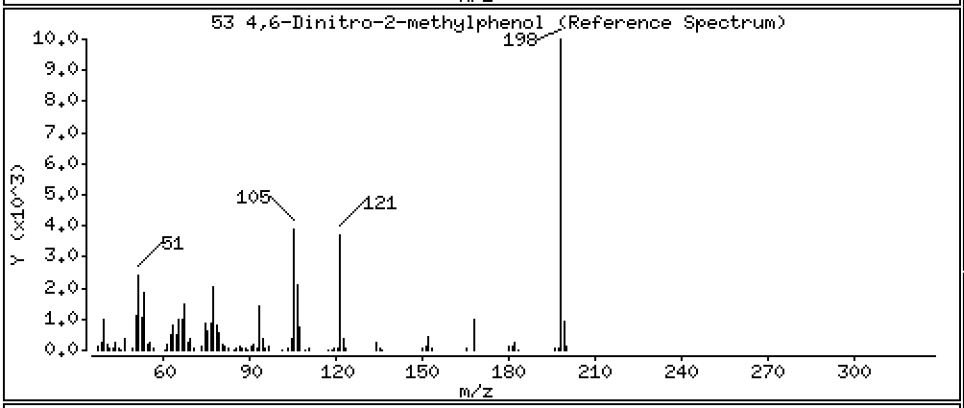
Concentration: 25.12 ug/mL

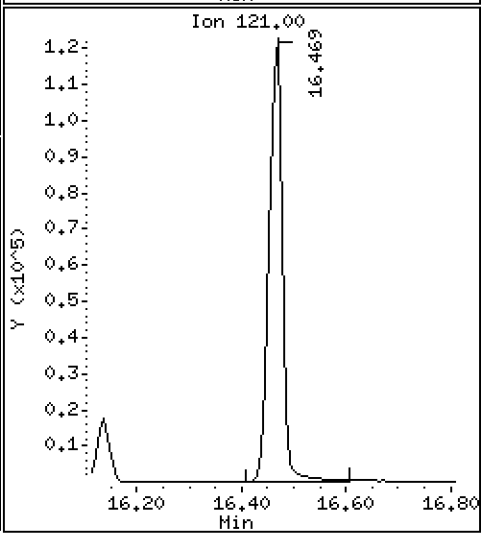


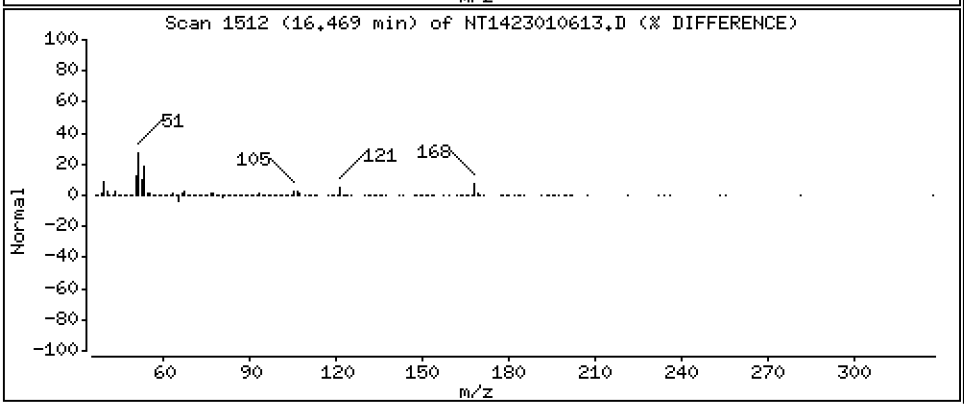












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

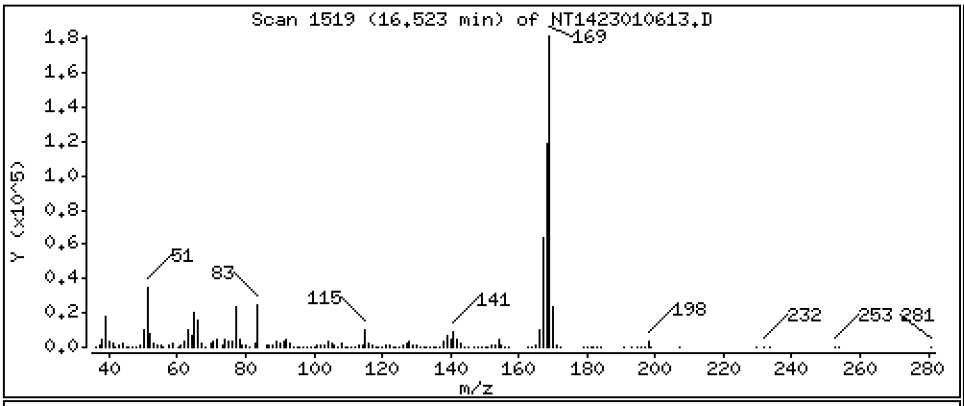
Operator: VTS

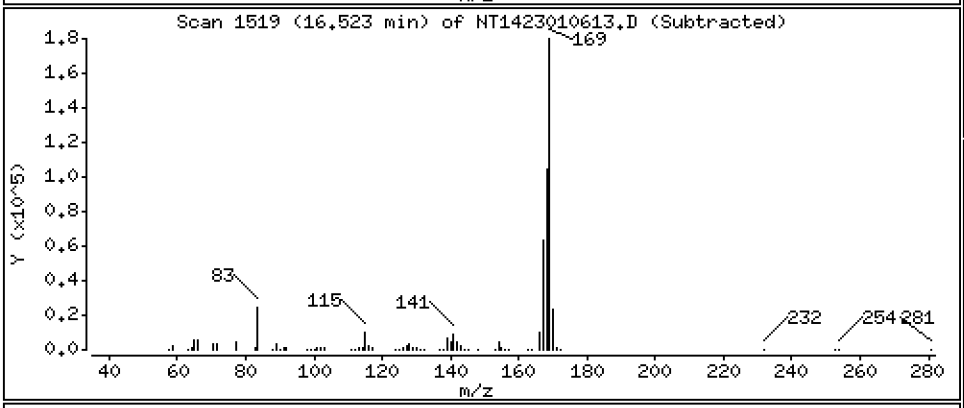
Column phase: ZB-5msi

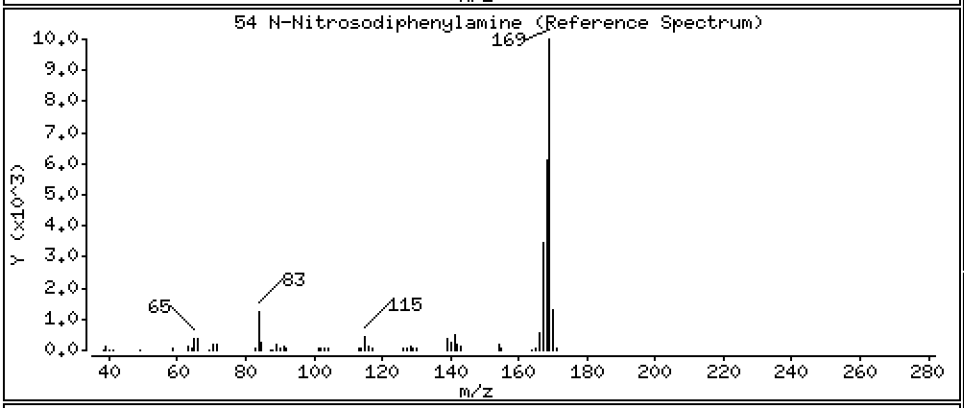
Column diameter: 0.25

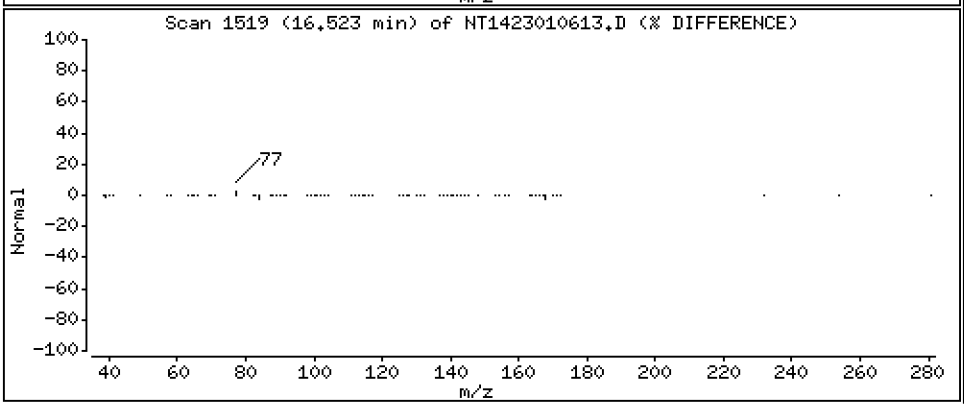
54 N-Nitrosodiphenylamine

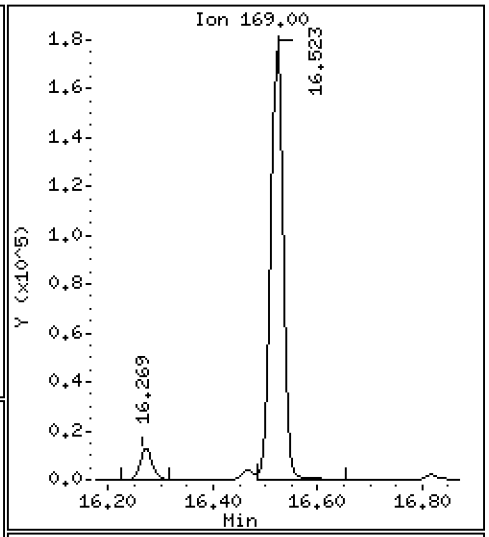
Concentration: 3.808 ug/mL

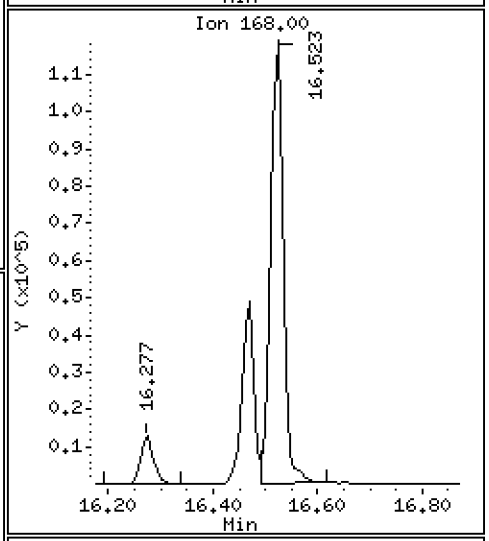


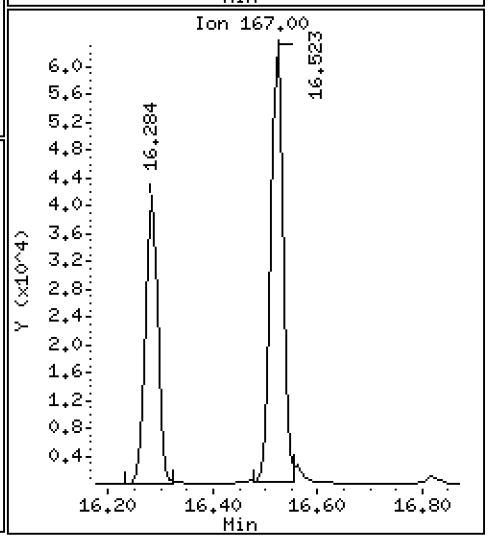












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

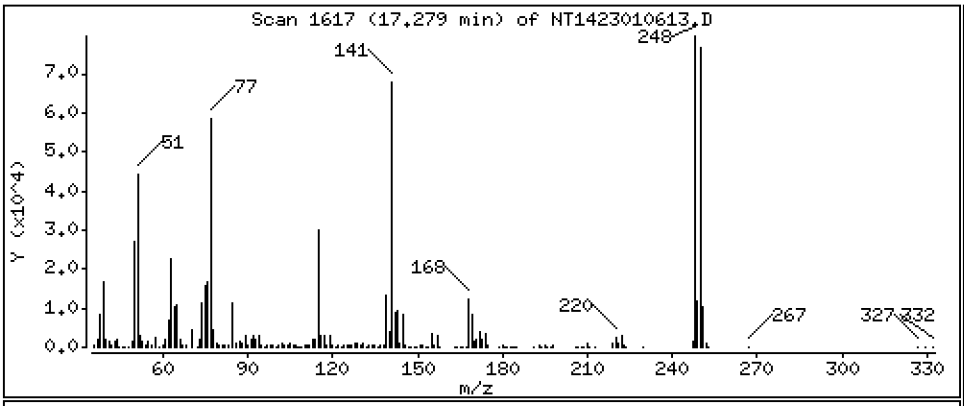
Operator: VTS

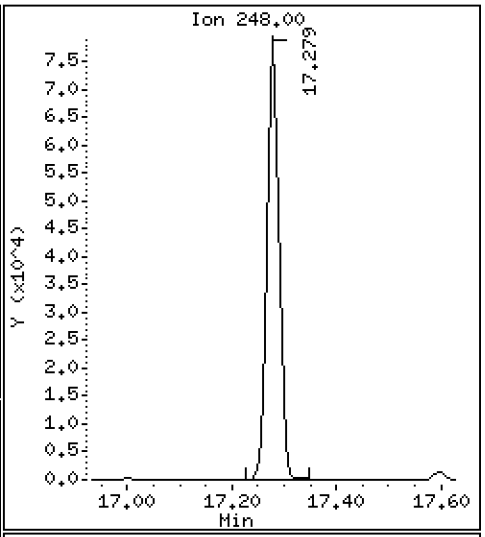
Column phase: ZB-5msi

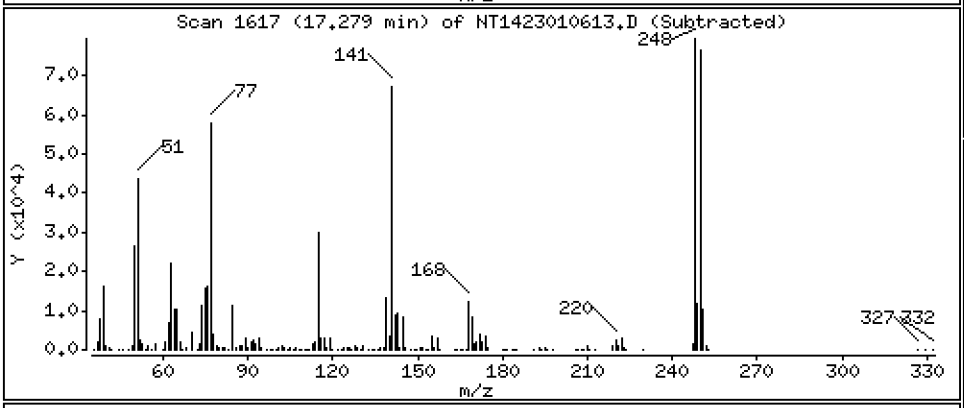
Column diameter: 0.25

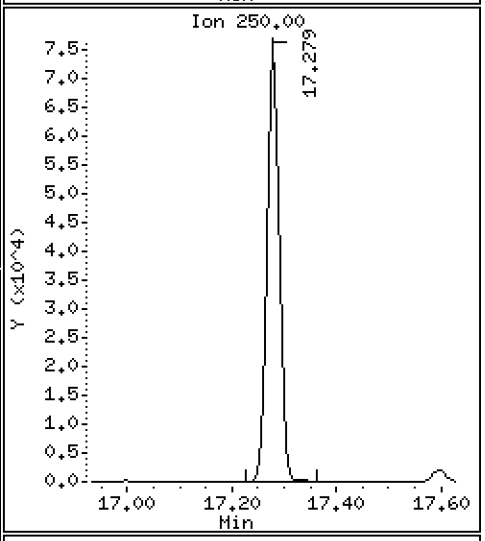
56 4-Bromophenyl-phenylether

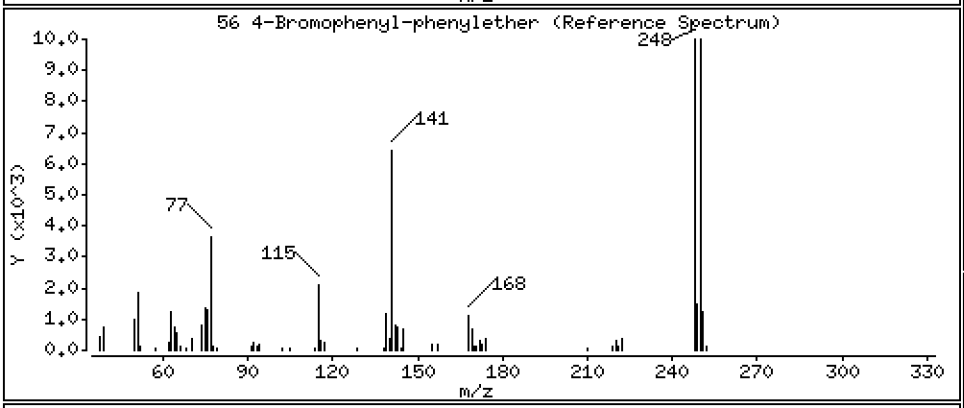
Concentration: 4.439 ug/mL

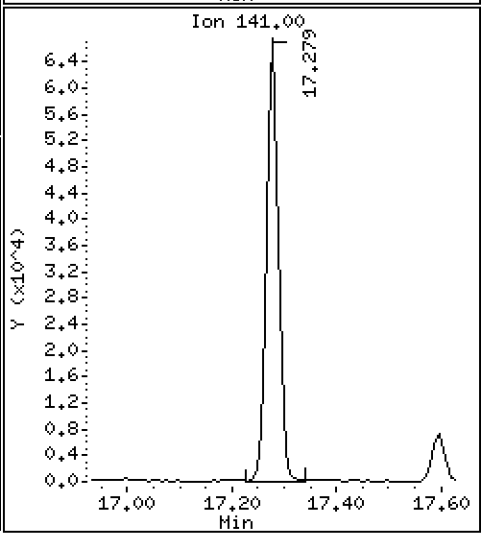


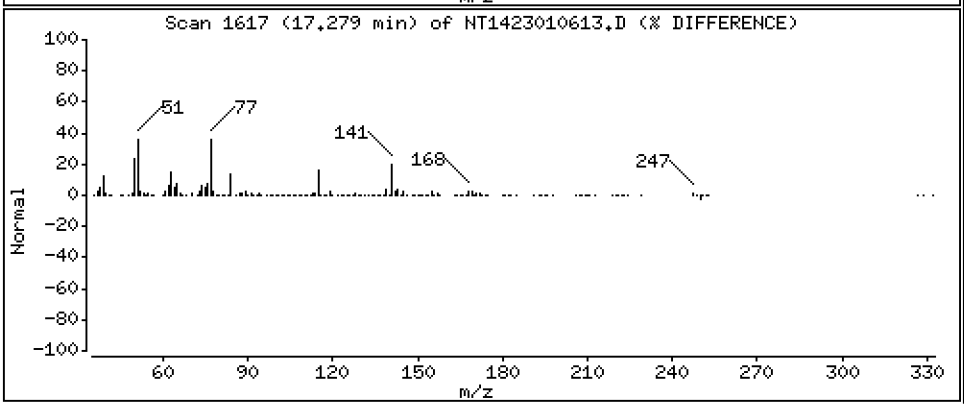












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

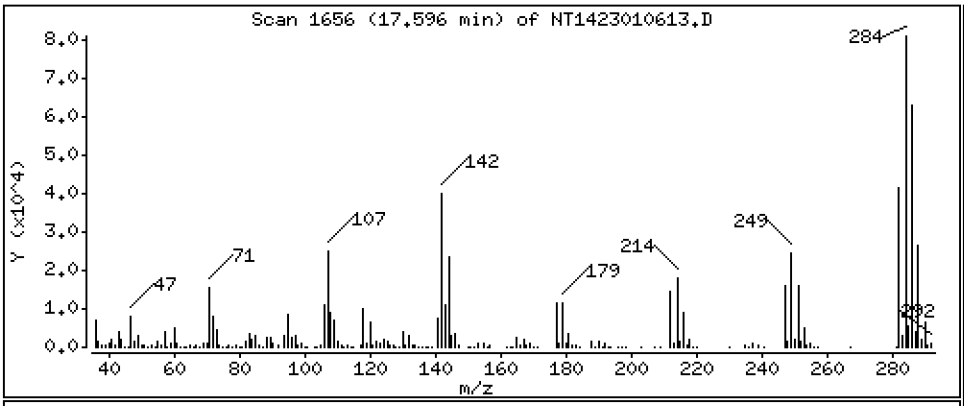
Operator: VTS

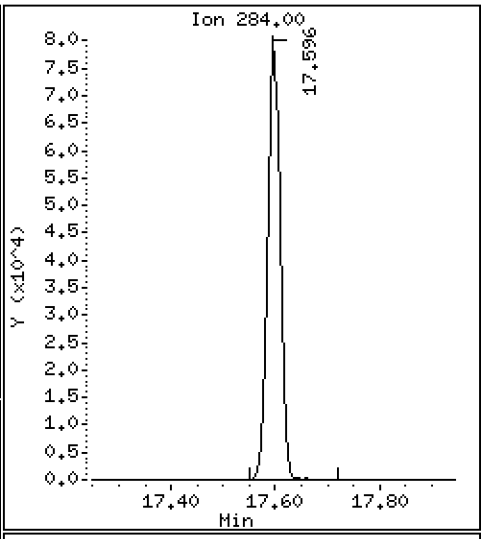
Column phase: ZB-5msi

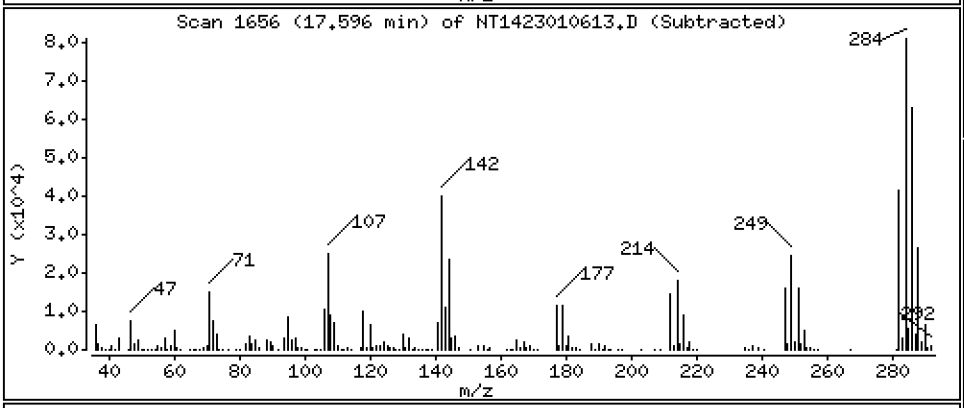
Column diameter: 0.25

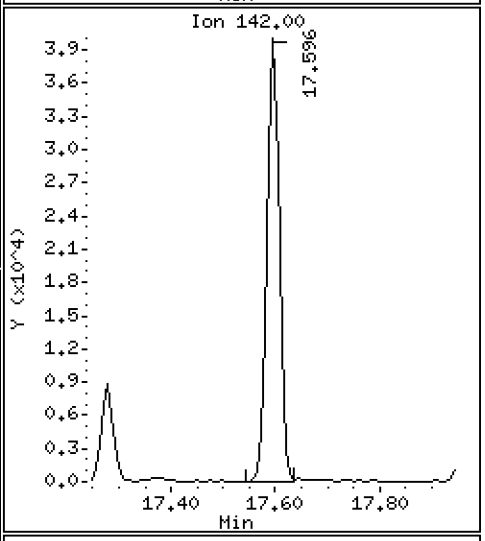
57 Hexachlorobenzene

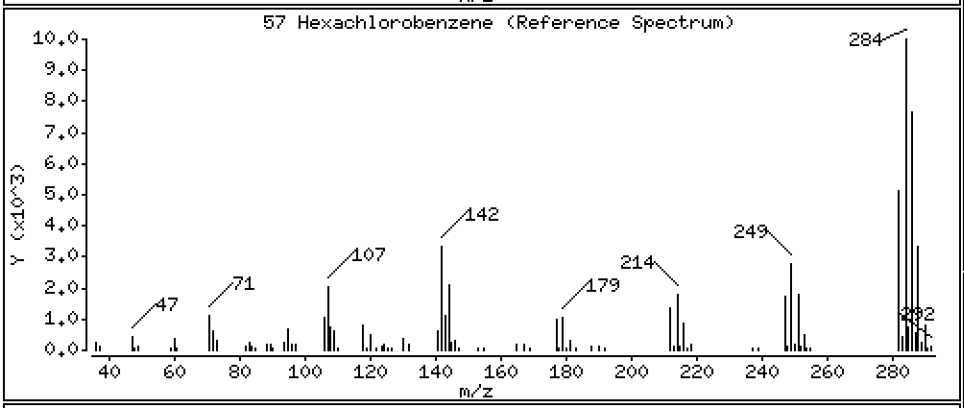
Concentration: 4.128 ug/mL

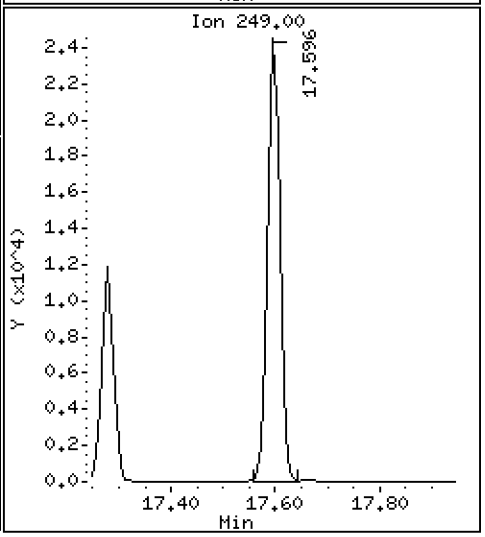


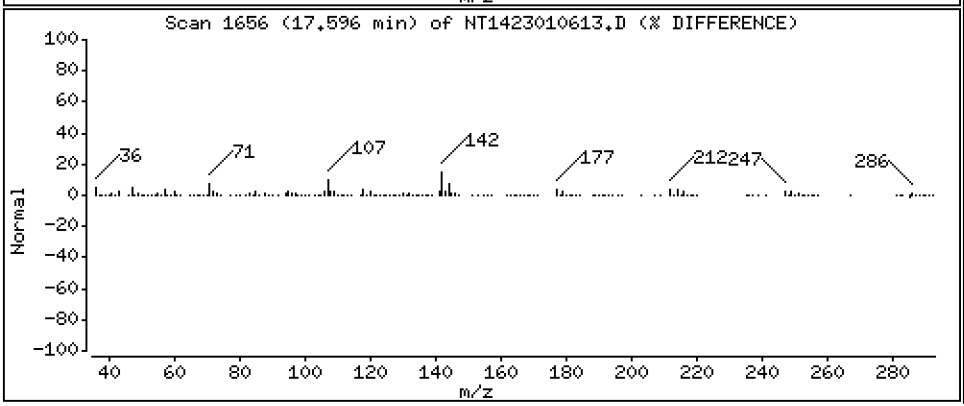












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

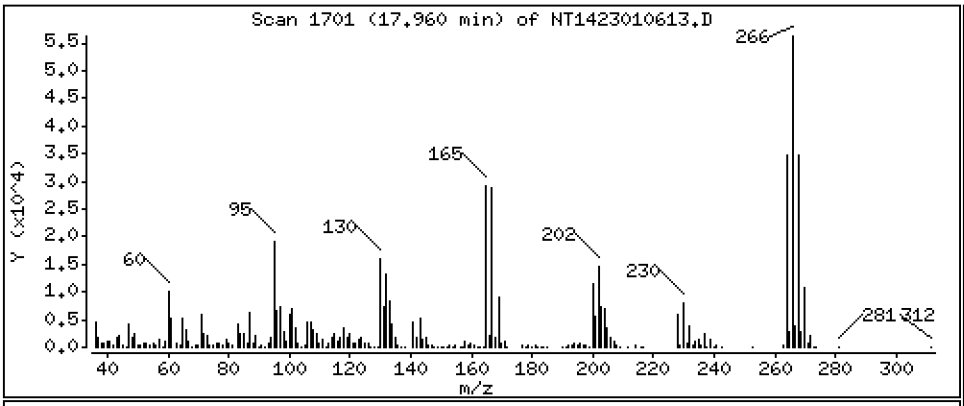
Operator: VTS

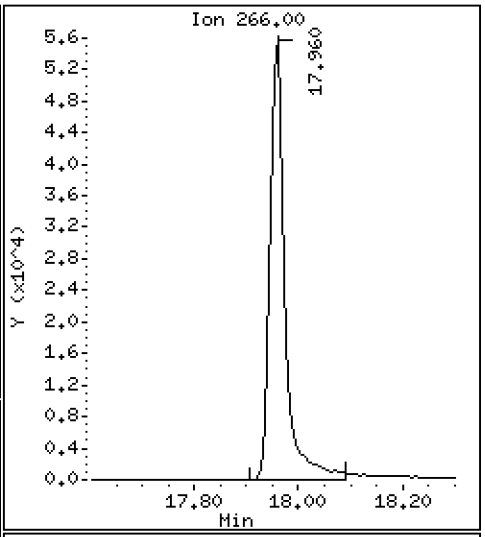
Column phase: ZB-5msi

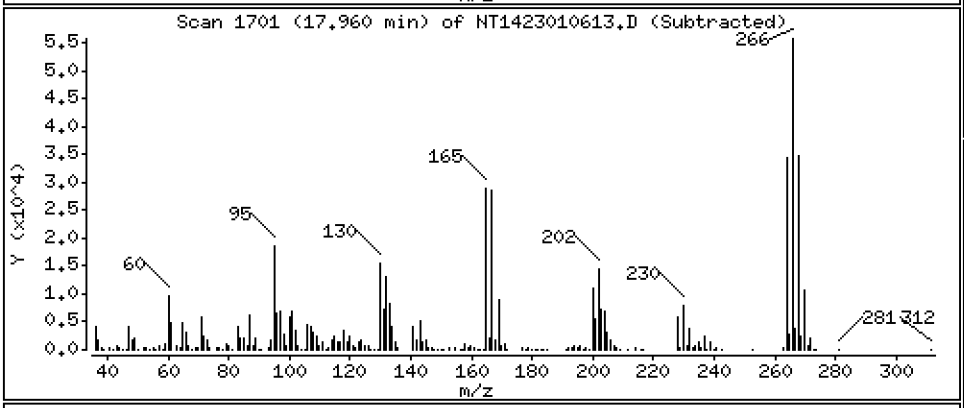
Column diameter: 0.25

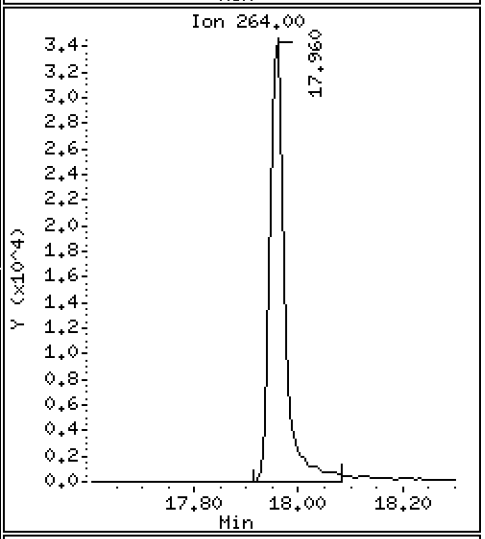
58 Pentachlorophenol

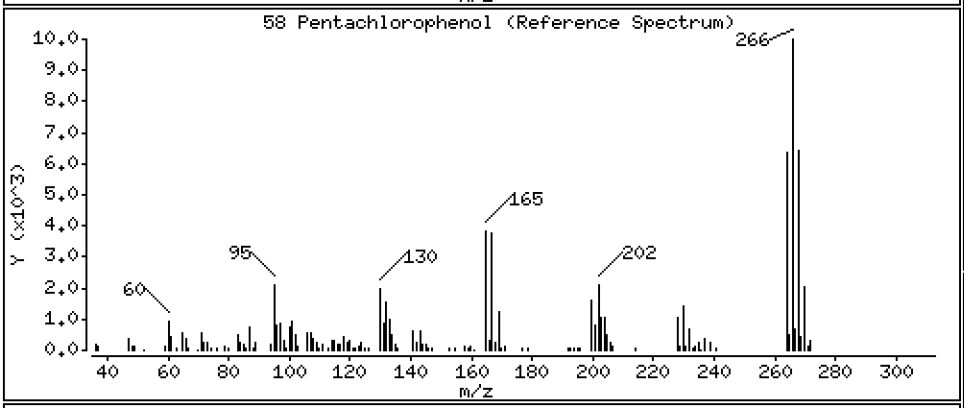
Concentration: 7.895 ug/mL

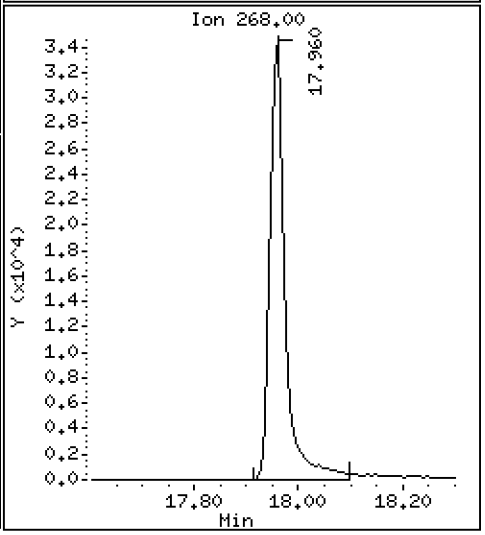


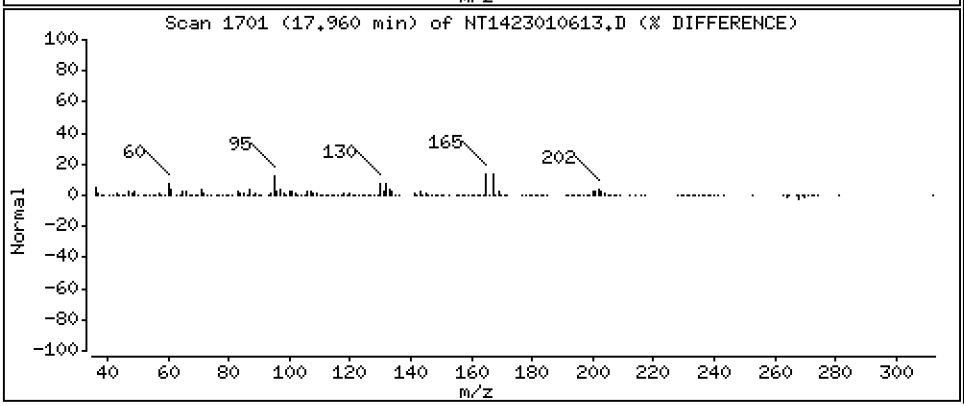












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

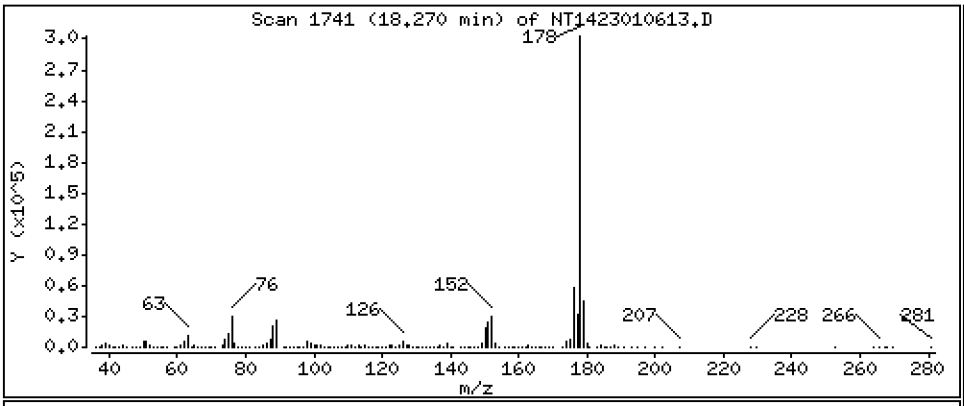
Operator: VTS

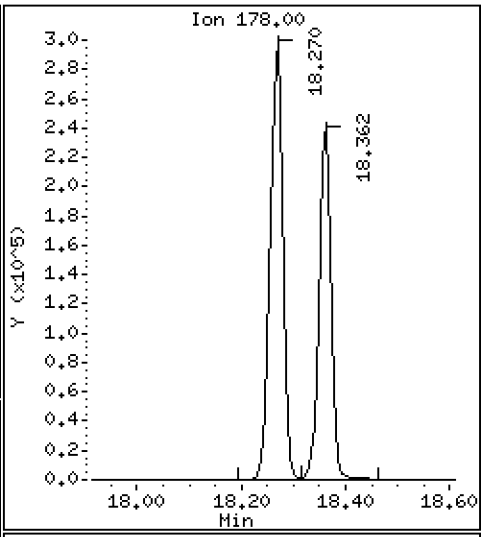
Column phase: ZB-5msi

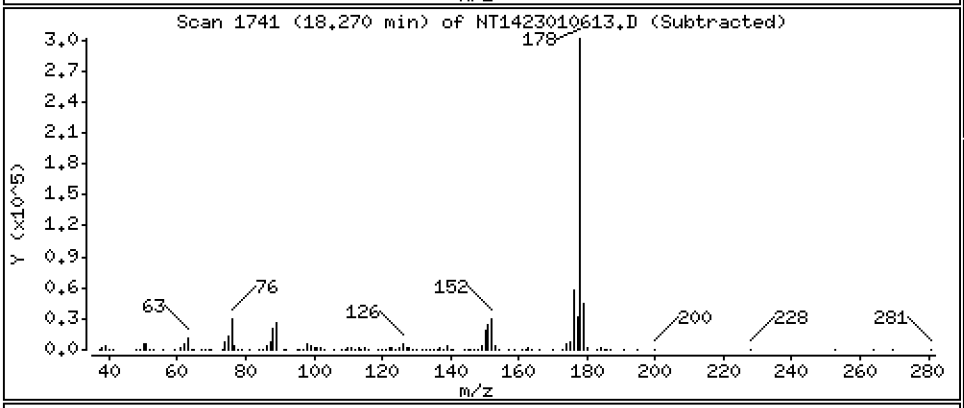
Column diameter: 0.25

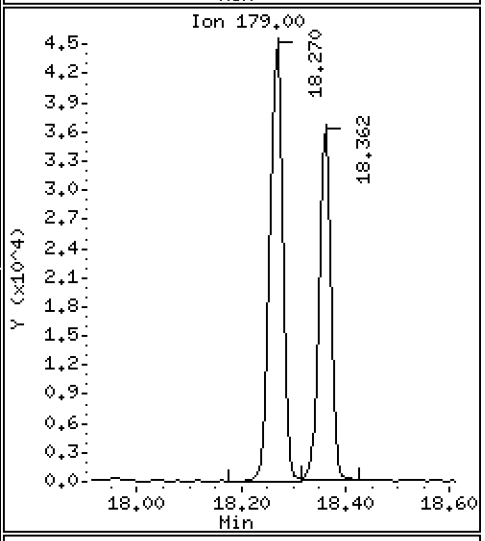
60 Phenanthrene

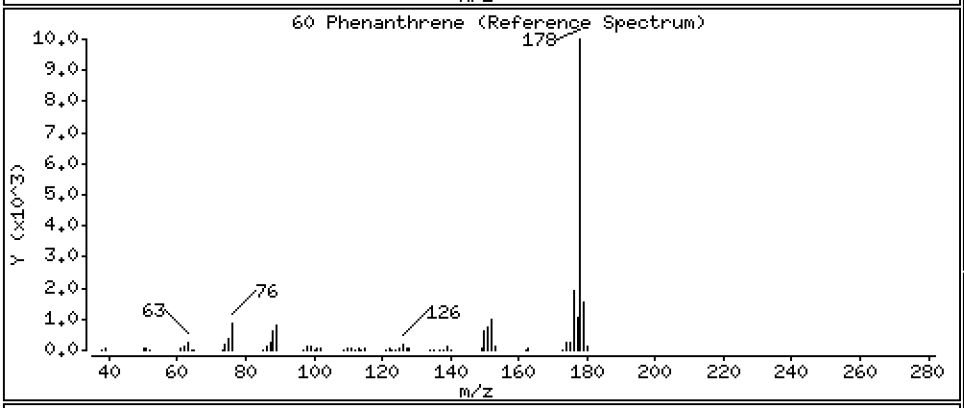
Concentration: 4.420 ug/mL

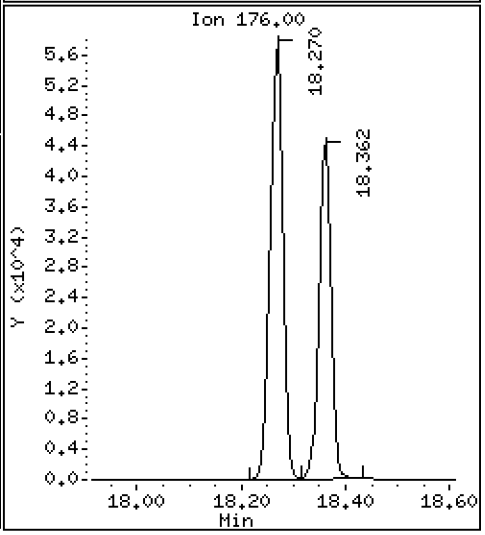


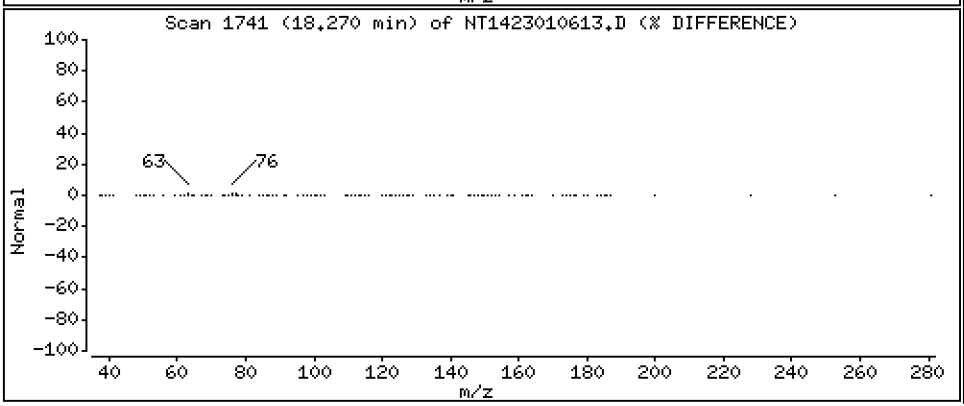












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

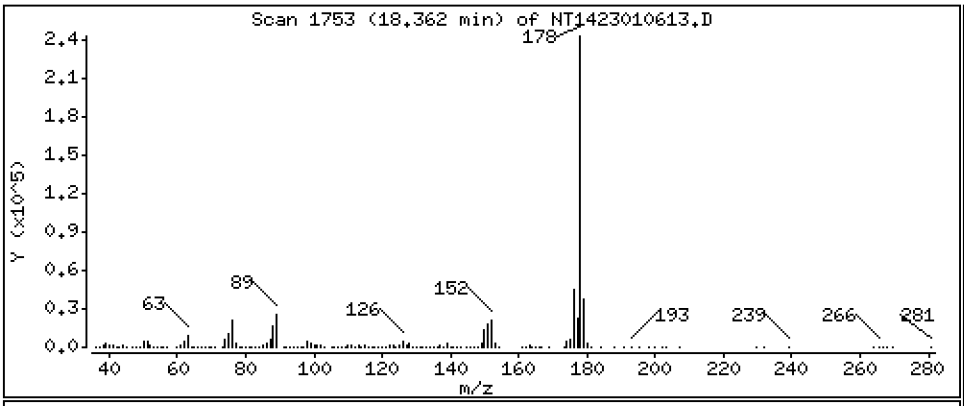
Operator: VTS

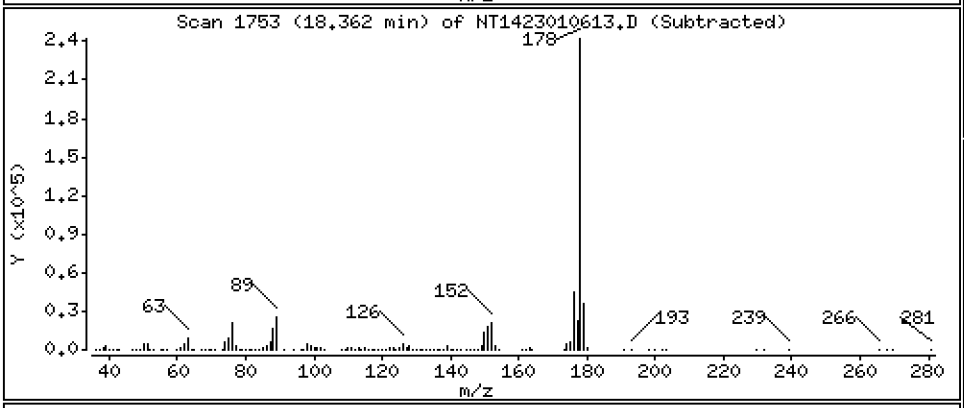
Column phase: ZB-5msi

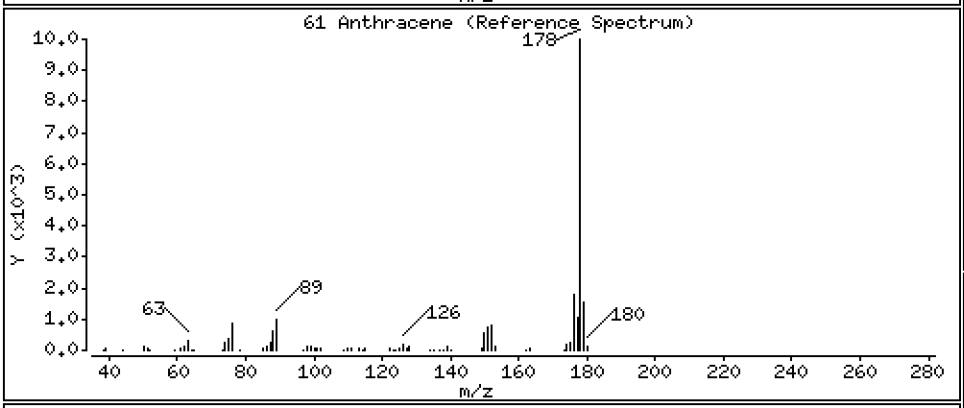
Column diameter: 0.25

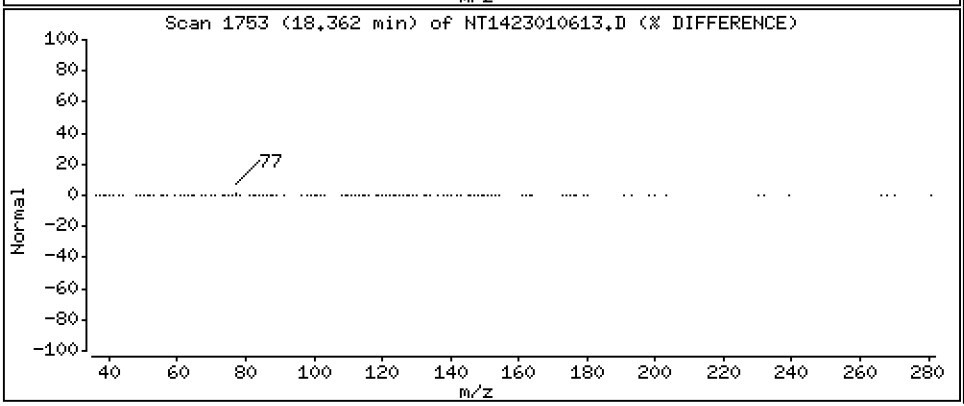
61 Anthracene

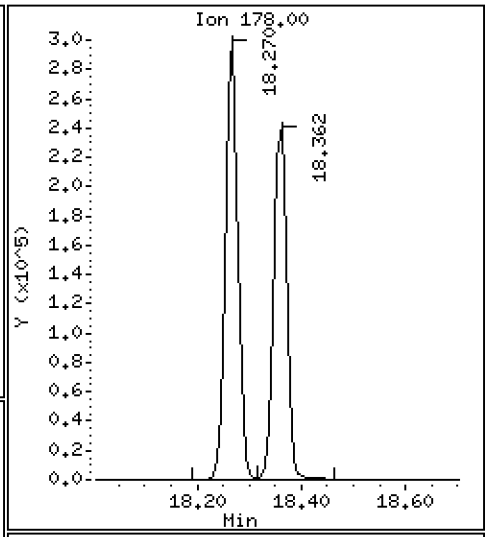
Concentration: 3.779 ug/mL

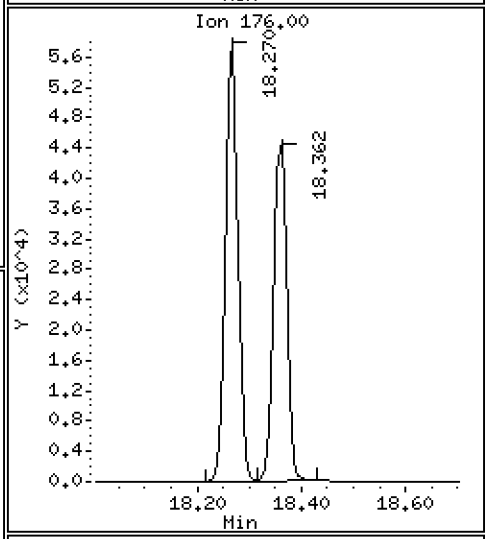


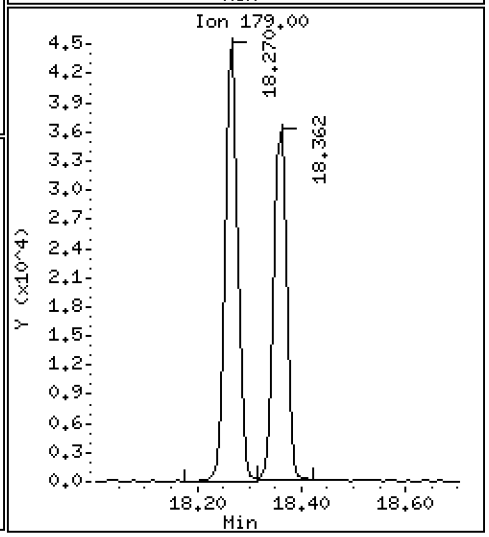












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

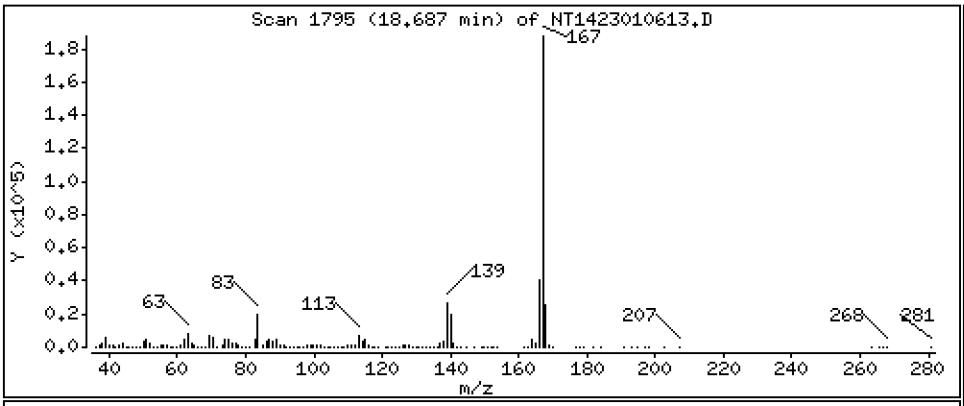
Operator: VTS

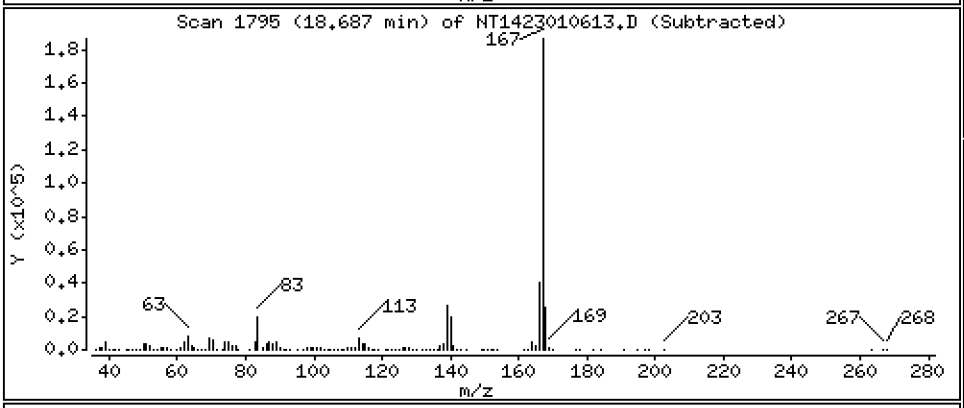
Column phase: ZB-5msi

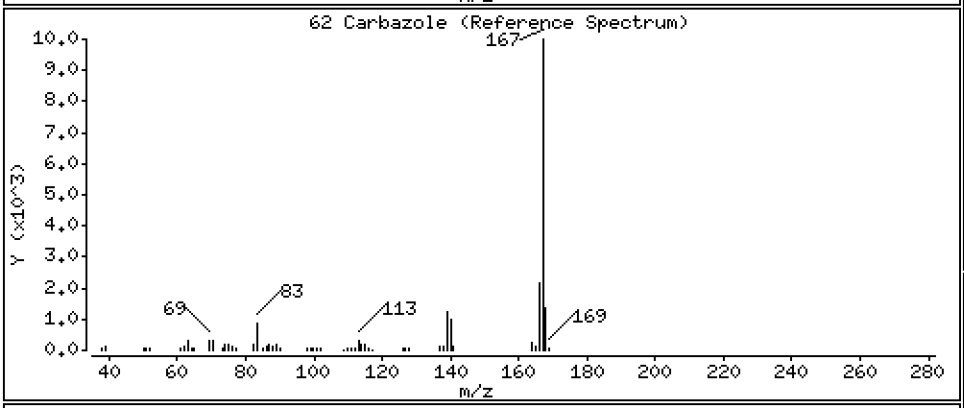
Column diameter: 0.25

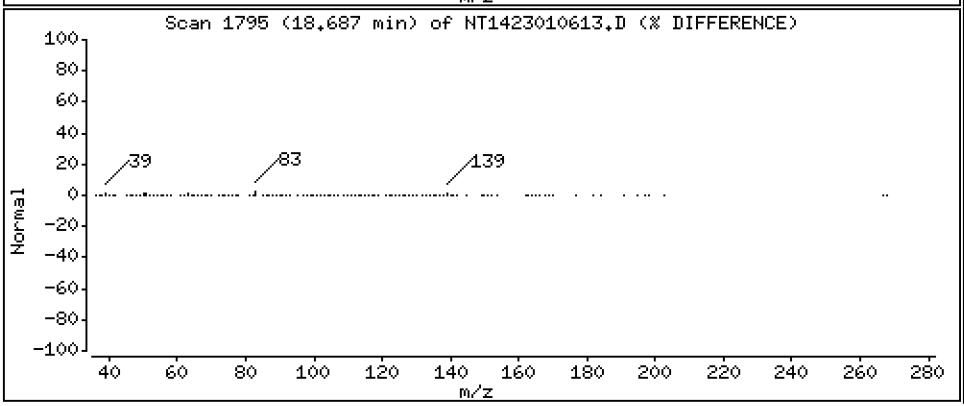
62 Carbazole

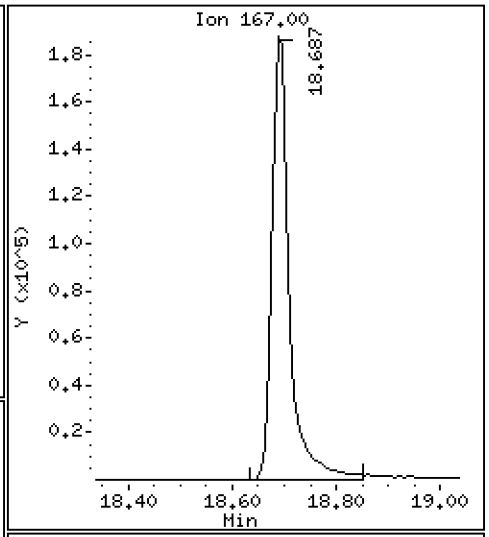
Concentration: 4.110 ug/mL

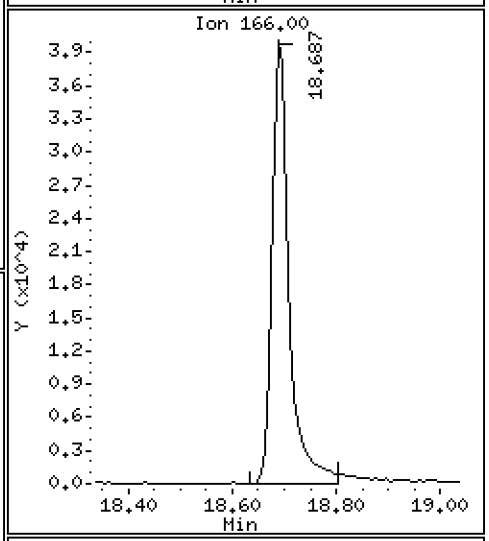


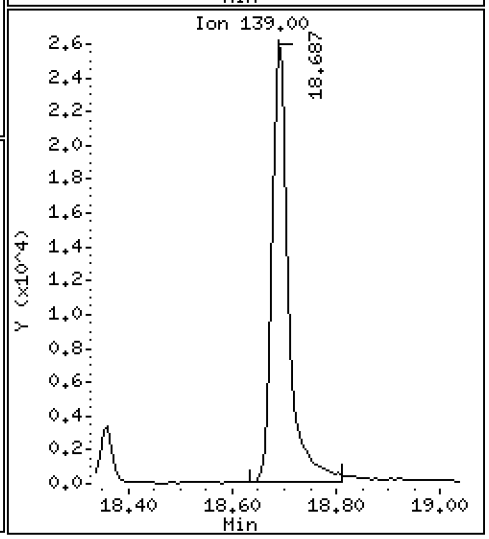












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

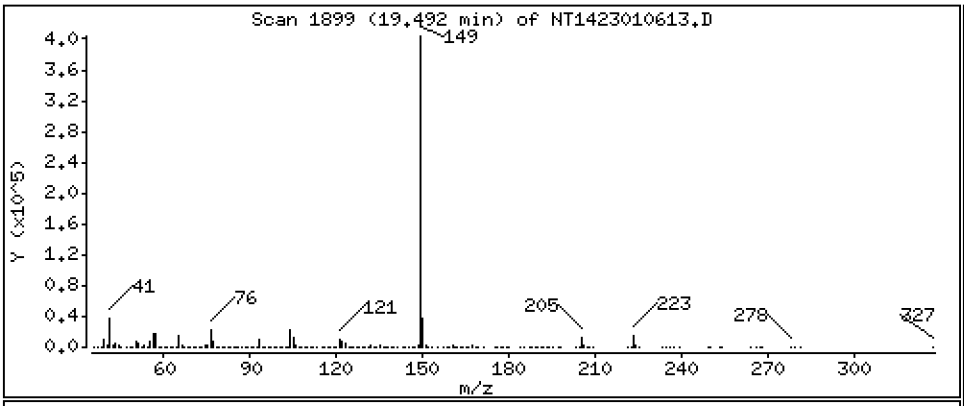
Operator: VTS

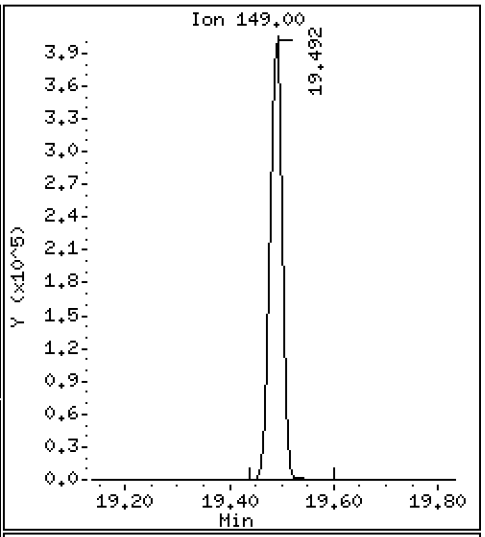
Column phase: ZB-5msi

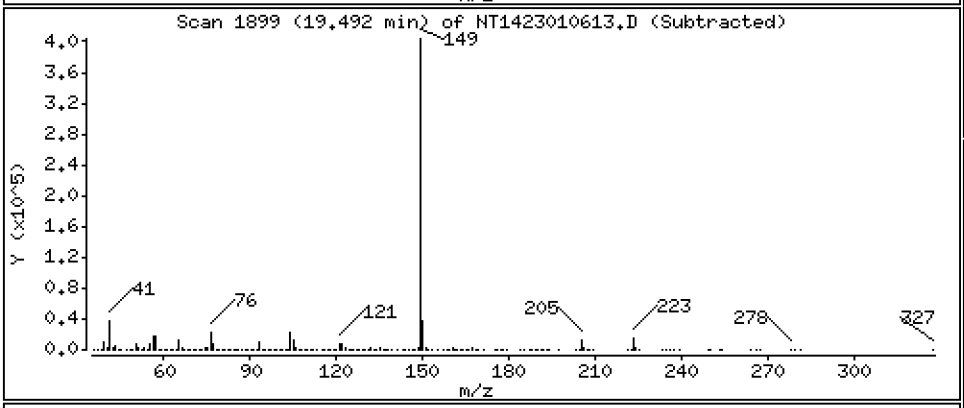
Column diameter: 0.25

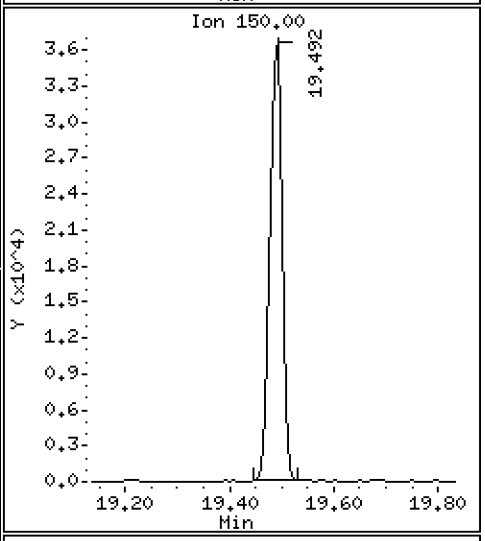
63 Di-n-butylphthalate

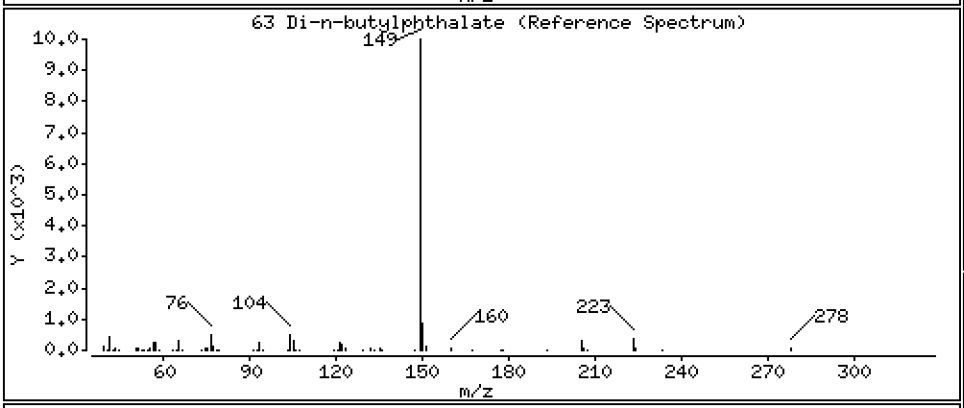
Concentration: 5.235 ug/mL

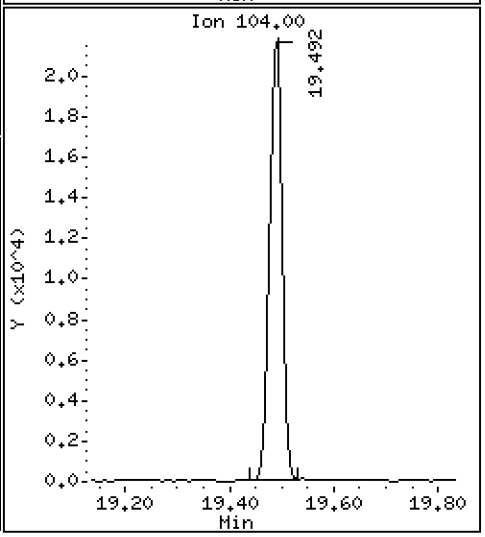


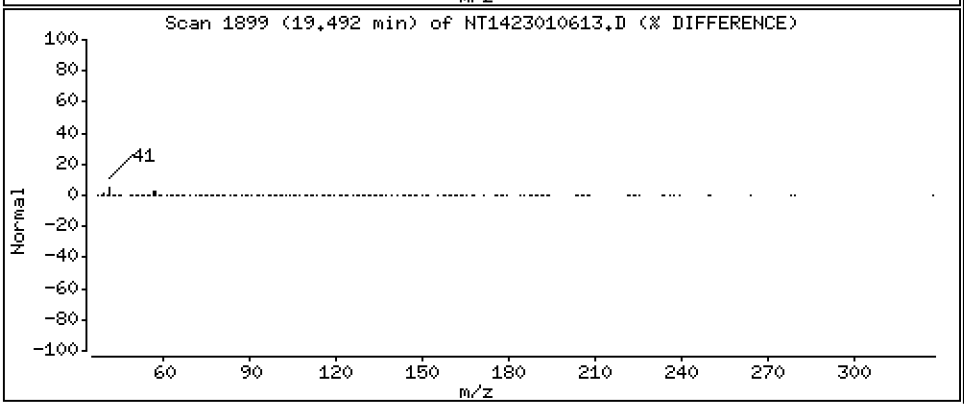












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

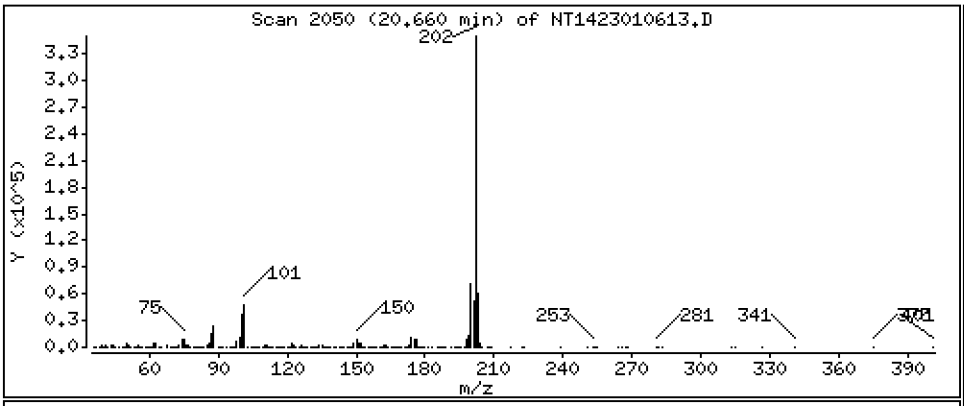
Operator: VTS

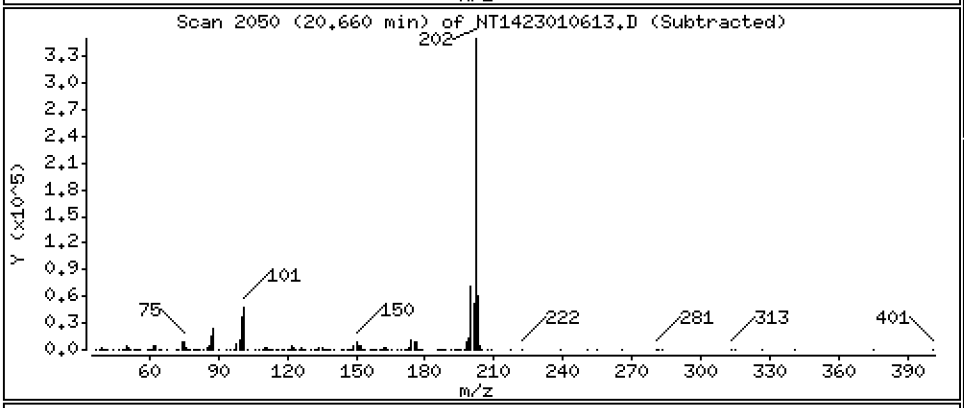
Column phase: ZB-5msi

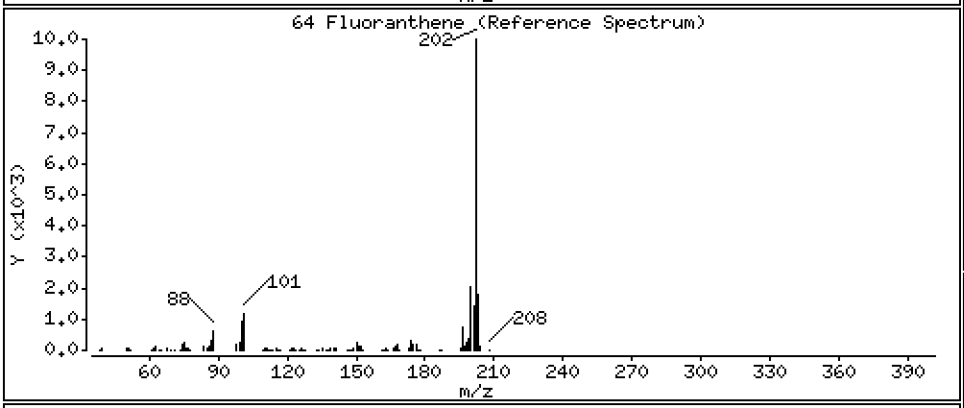
Column diameter: 0.25

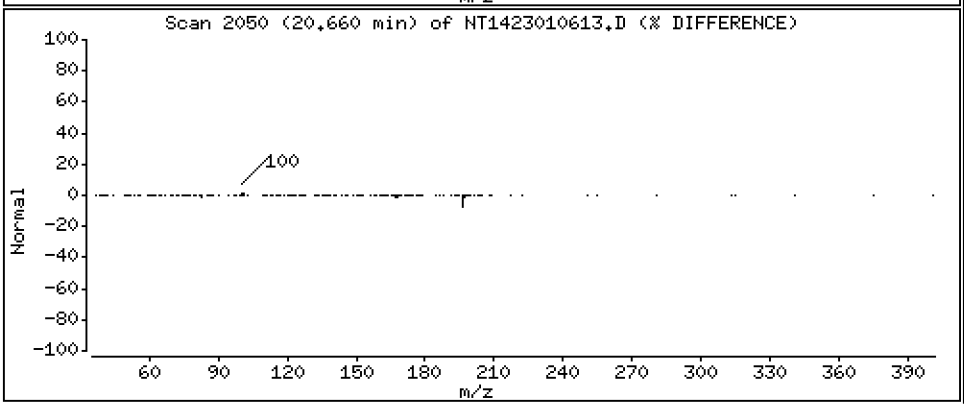
64 Fluoranthene

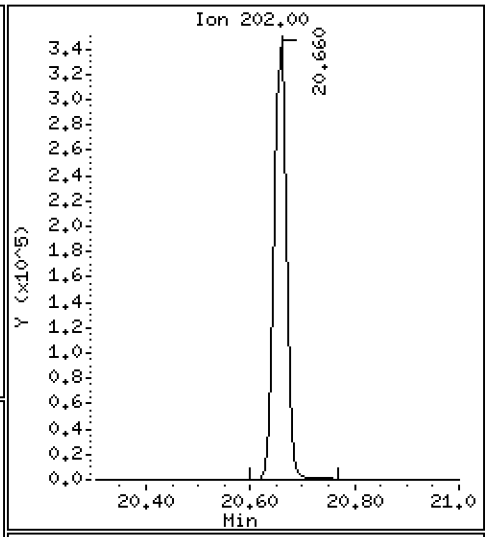
Concentration: 5.476 ug/mL

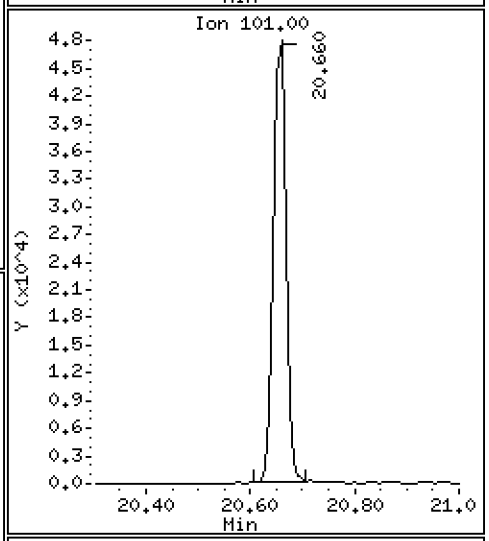


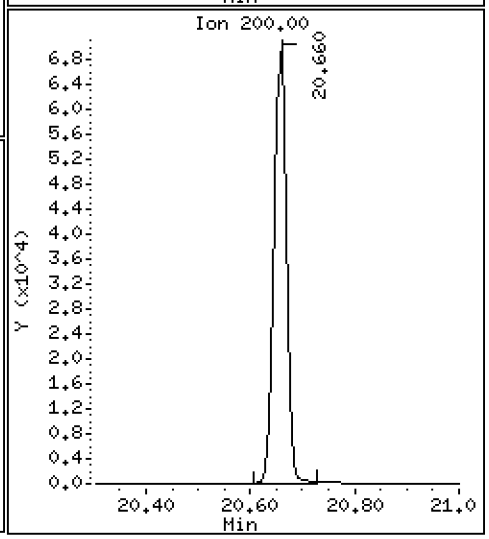












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

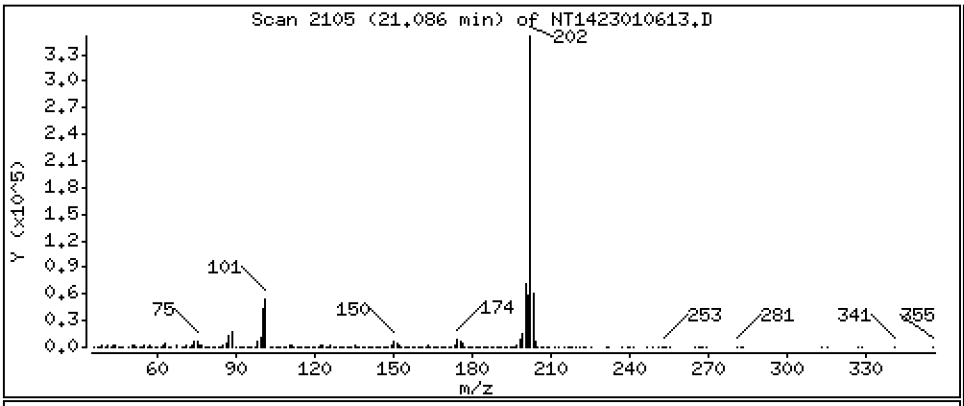
Operator: VTS

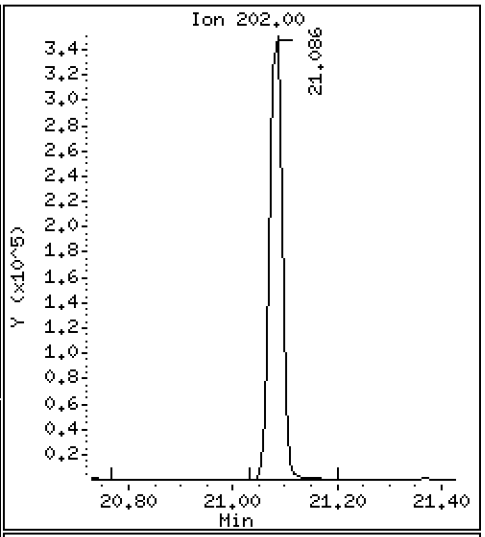
Column phase: ZB-5msi

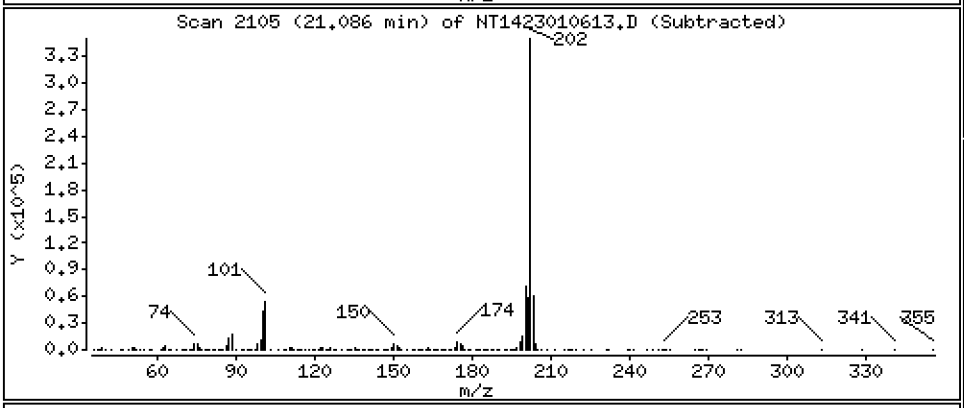
Column diameter: 0.25

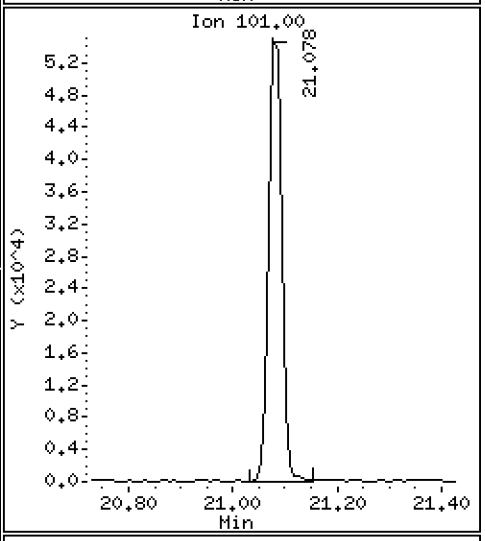
65 Pyrene

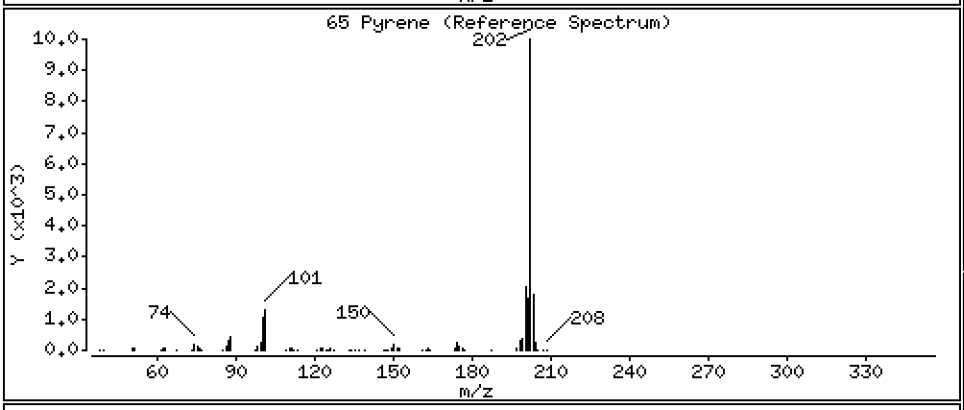
Concentration: 5.438 ug/mL

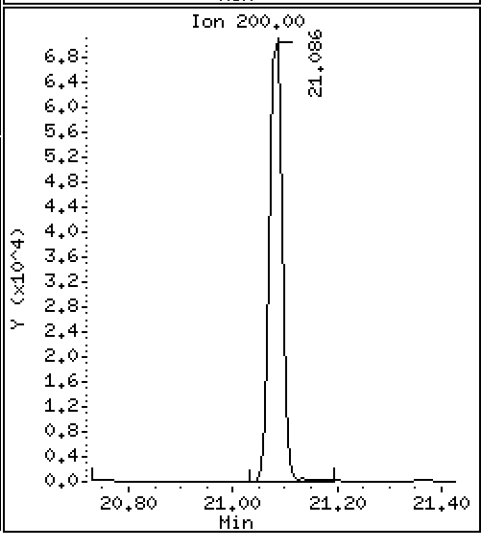


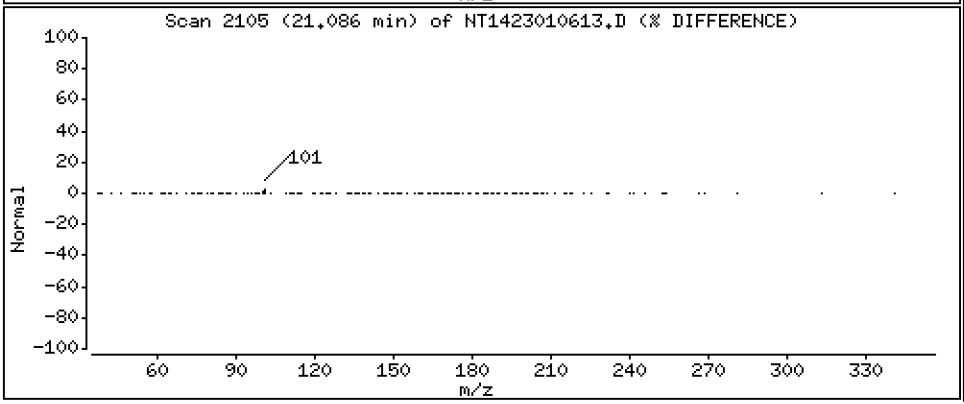












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

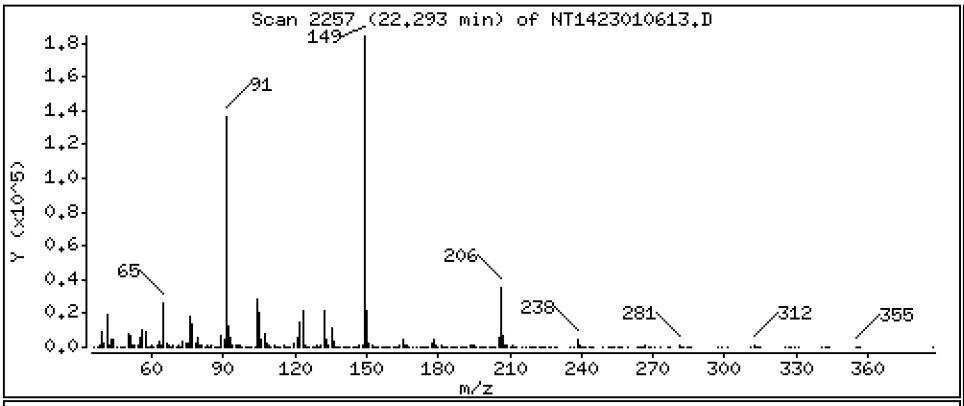
Operator: VTS

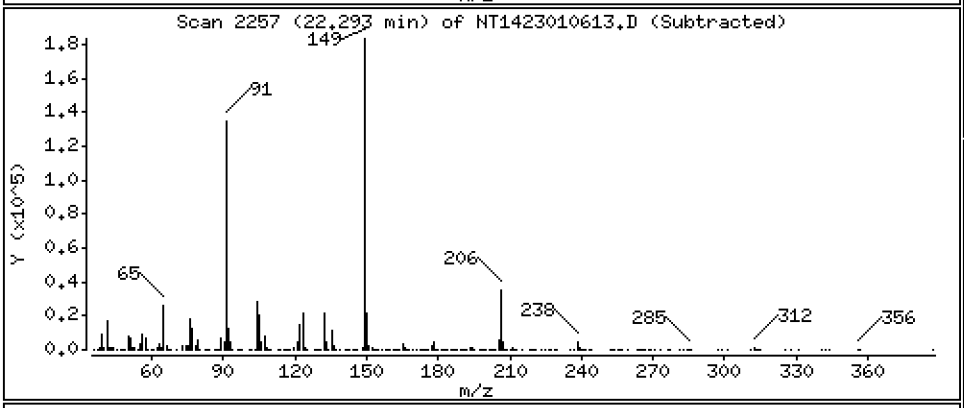
Column phase: ZB-5msi

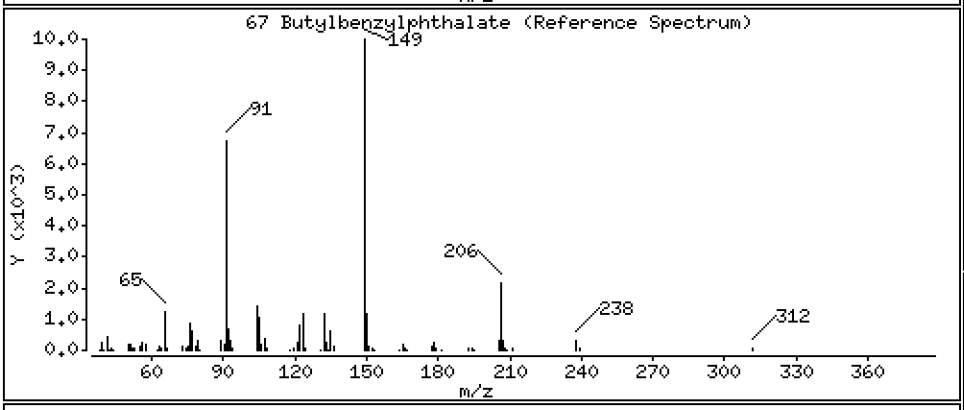
Column diameter: 0.25

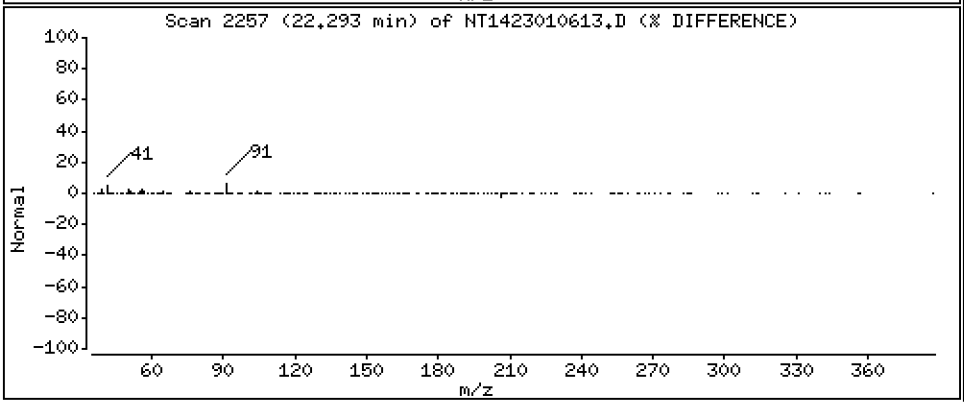
67 Butylbenzylphthalate

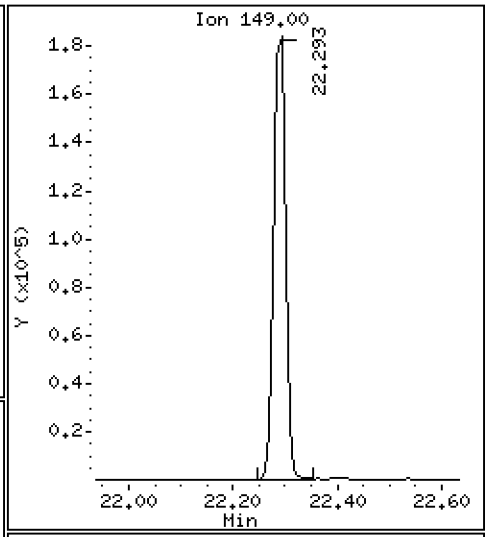
Concentration: 6.774 ug/mL

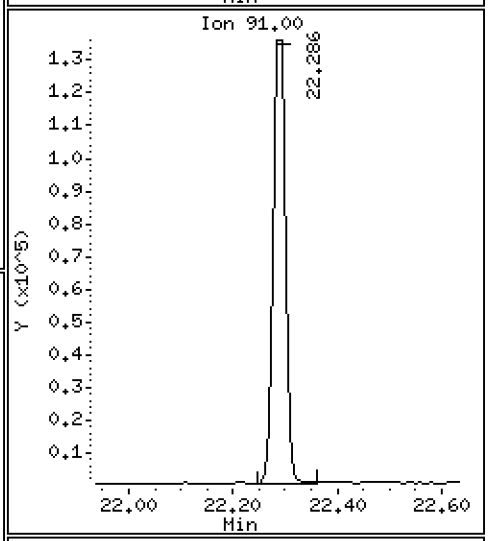


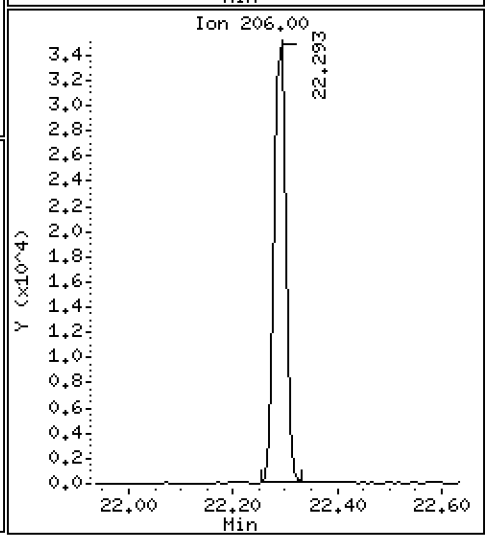












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

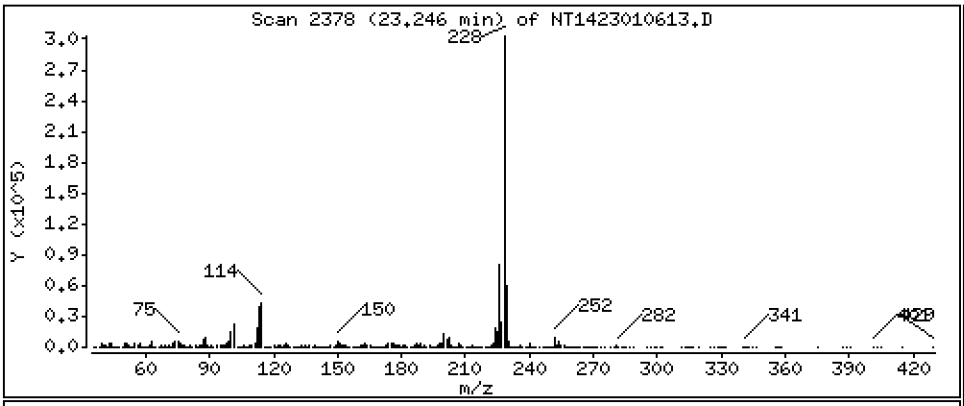
Operator: VTS

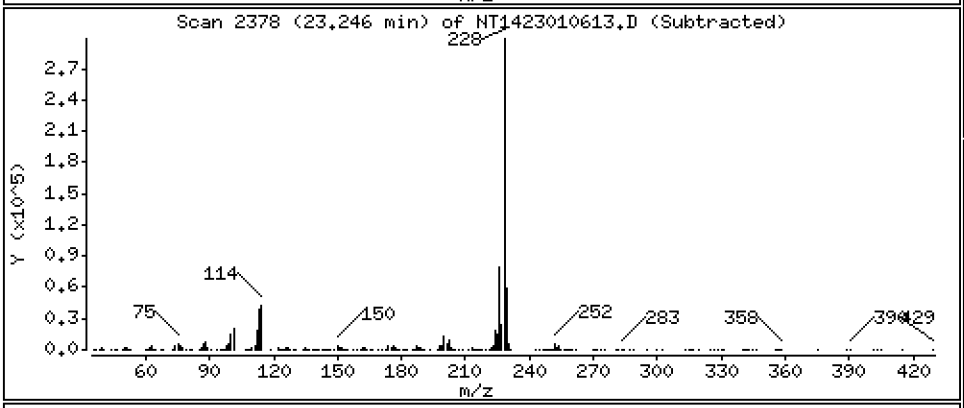
Column phase: ZB-5msi

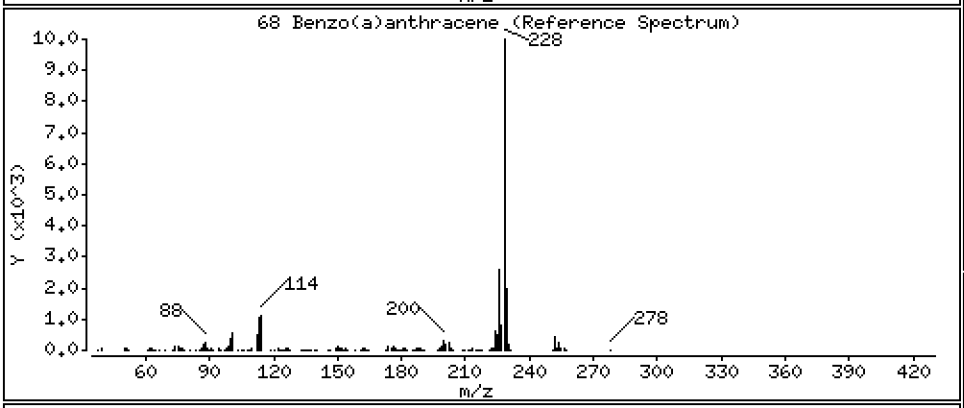
Column diameter: 0.25

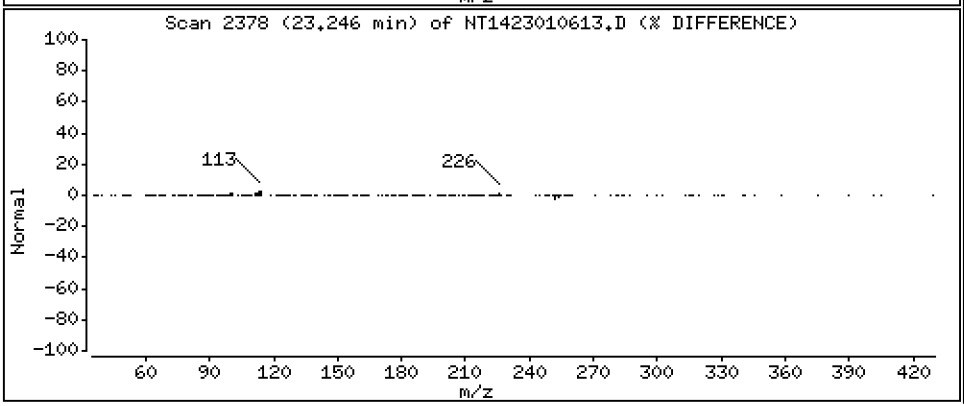
68 Benzo(a)anthracene

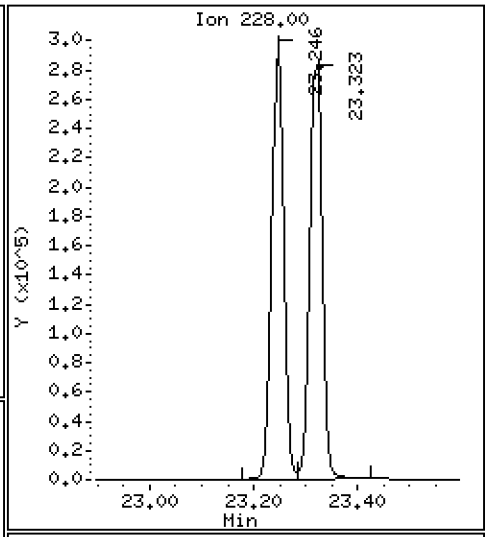
Concentration: 4.839 ug/mL

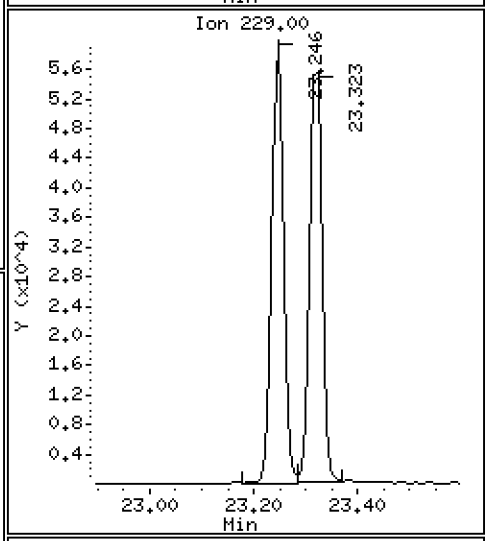


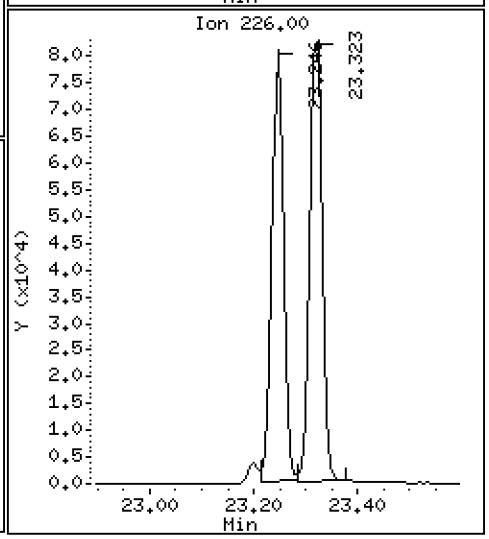












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

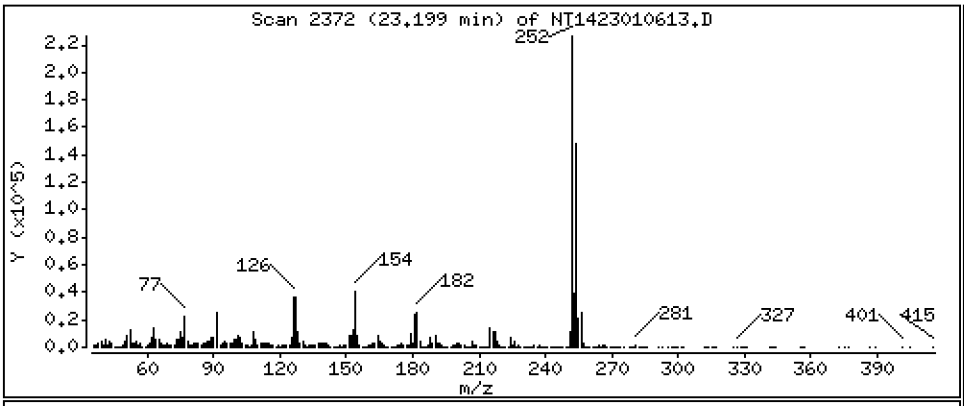
Operator: VTS

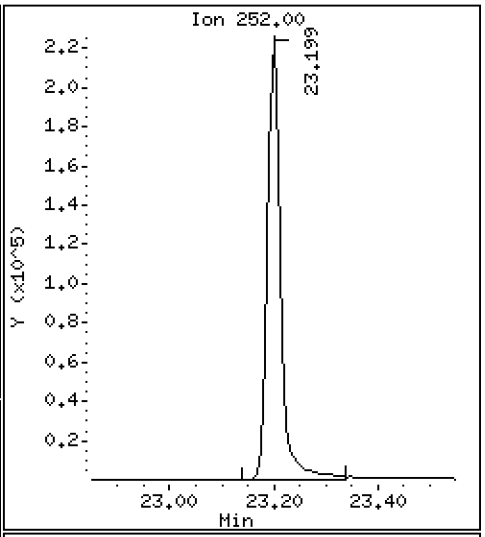
Column phase: ZB-5msi

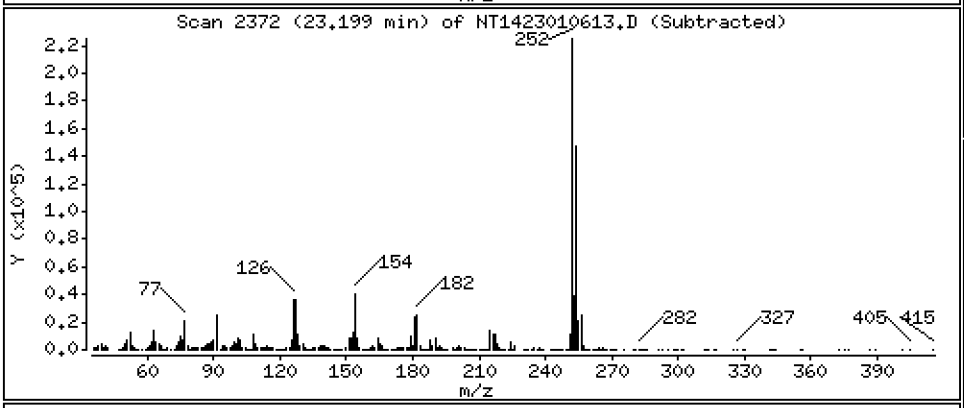
Column diameter: 0.25

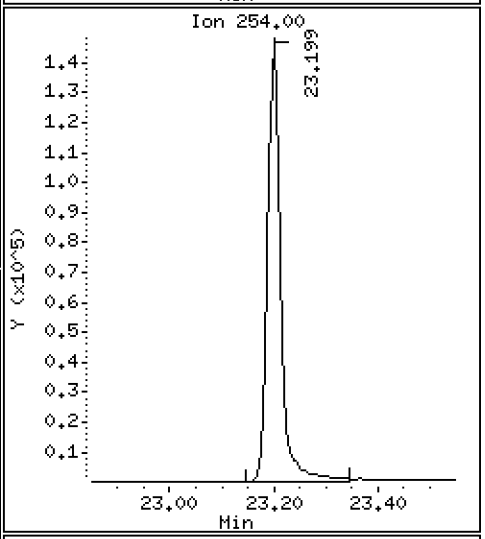
70 3,3'-Dichlorobenzidine

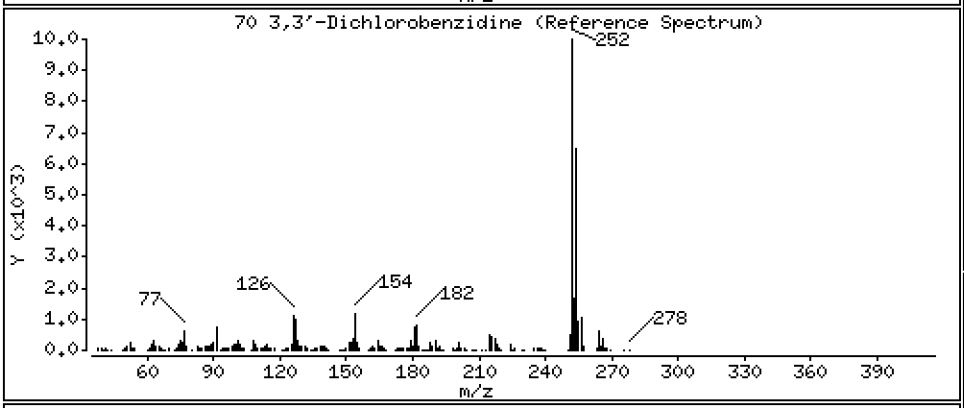
Concentration: 13.28 ug/mL

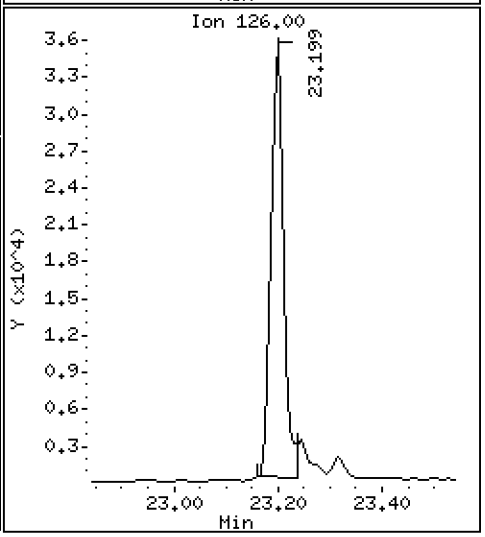


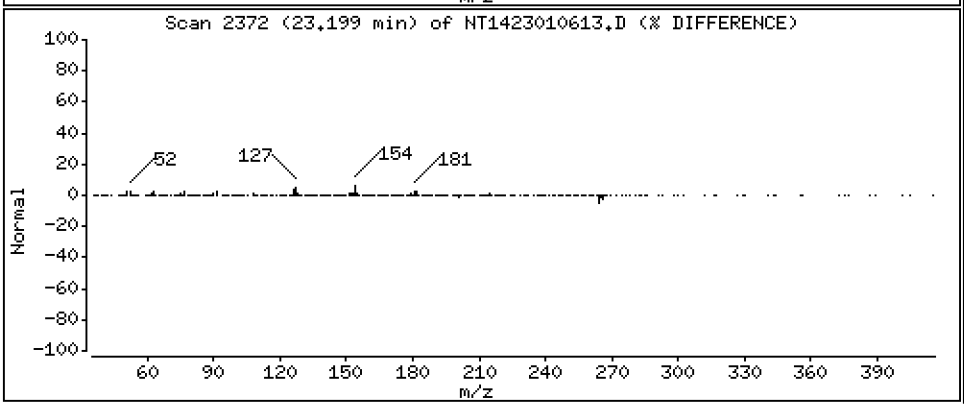












Date : 06-JAN-2023 18:50

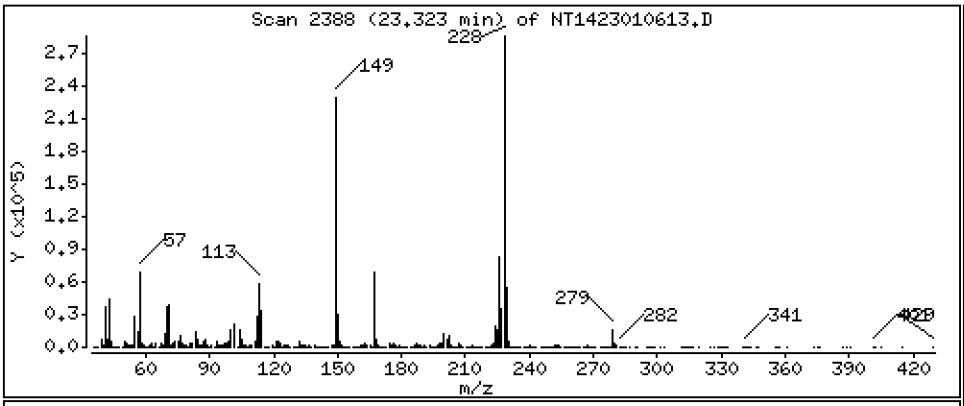
Client ID: Instrument: nt14.i

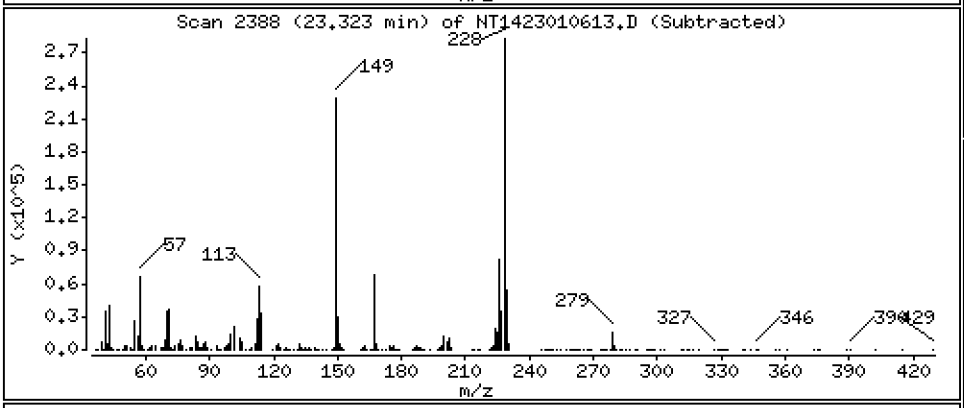
Sample Info: BKL0585-BSD1

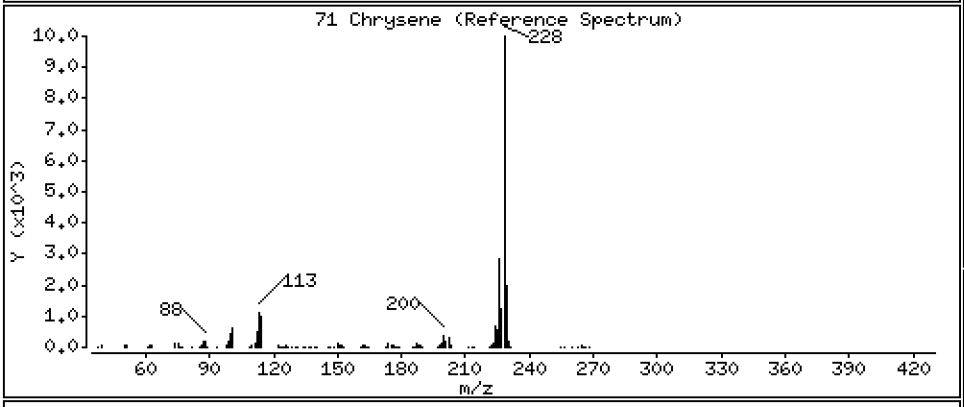
Operator: VTS

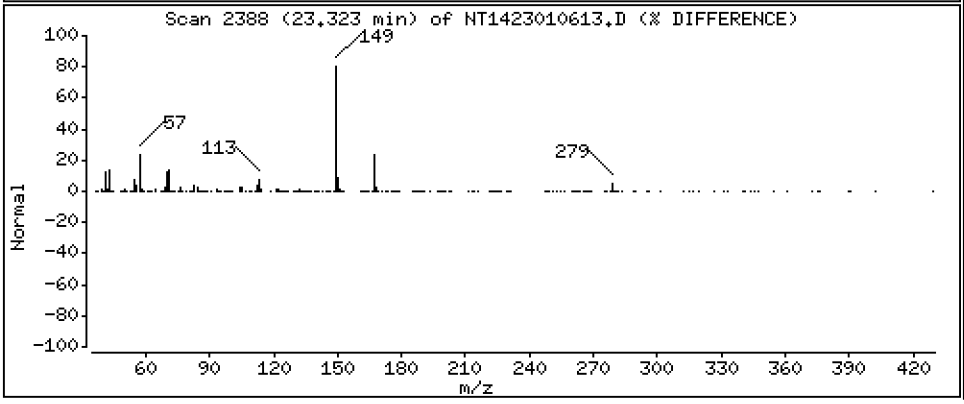
Column phase: ZB-5msi Column diameter: 0.25

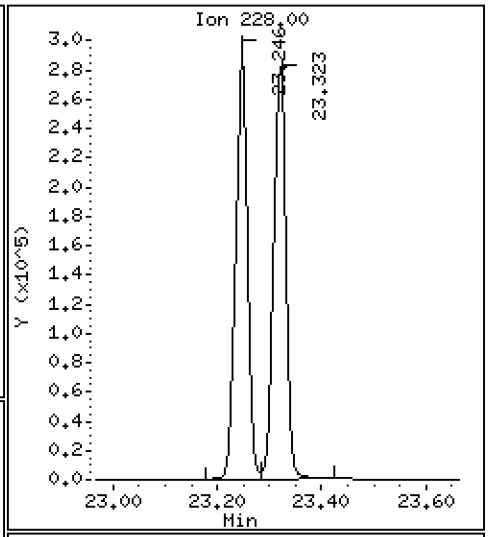
71 Chrysene Concentration: 5.105 ug/mL

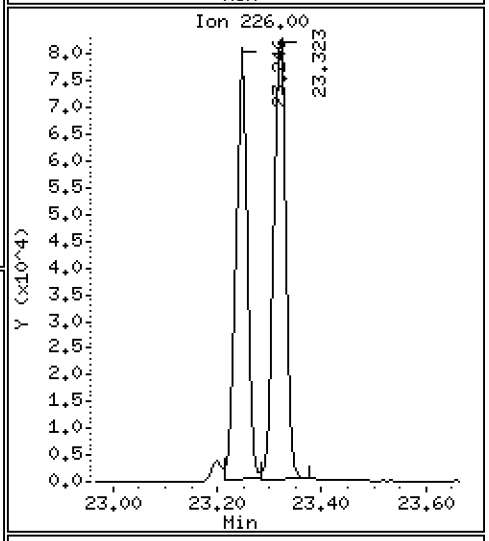


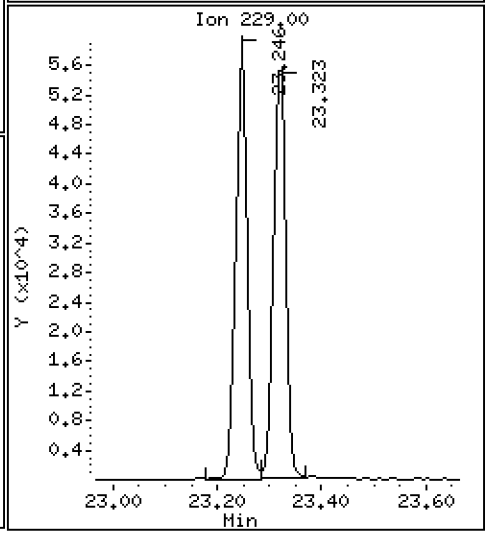












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

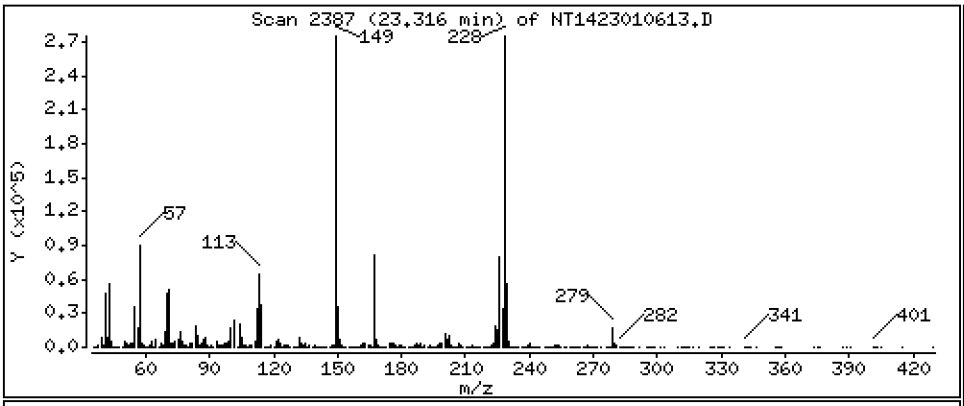
Operator: VTS

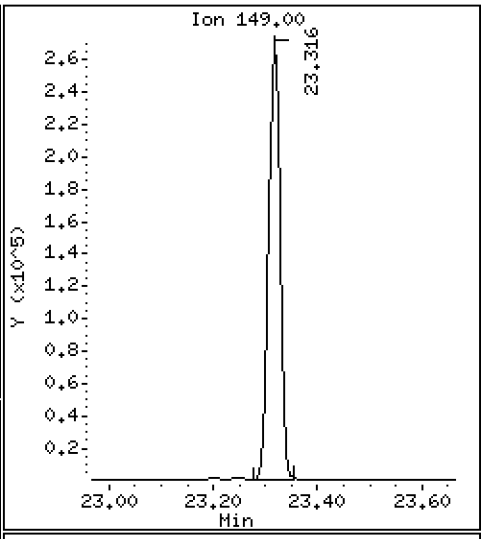
Column phase: ZB-5msi

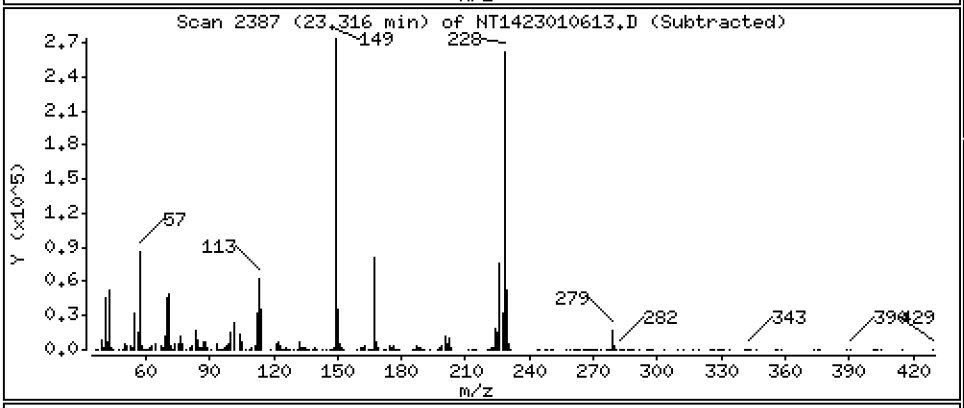
Column diameter: 0.25

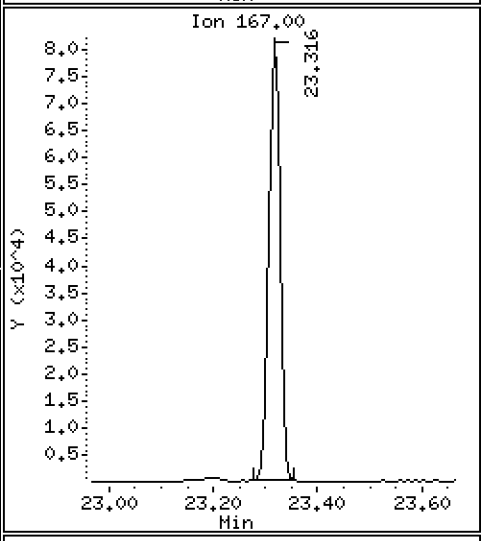
72 bis(2-Ethylhexyl)phthalate

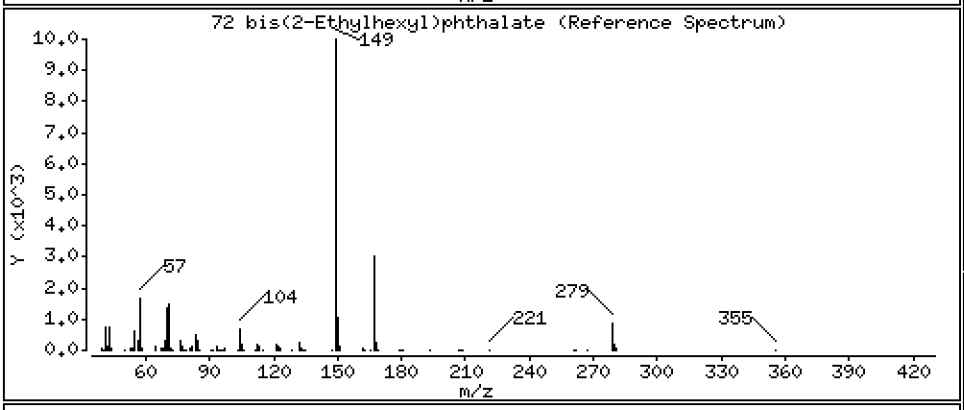
Concentration: 5.422 ug/mL

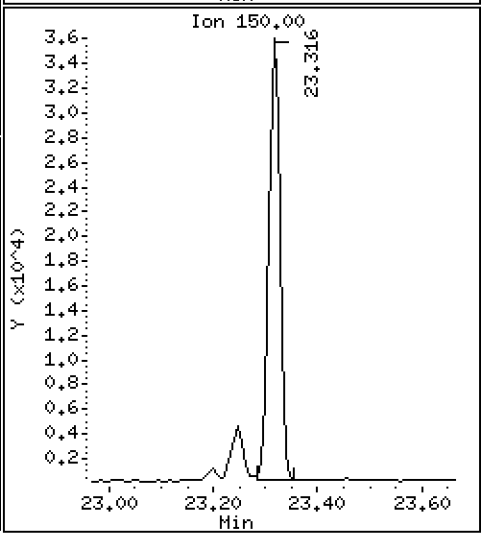


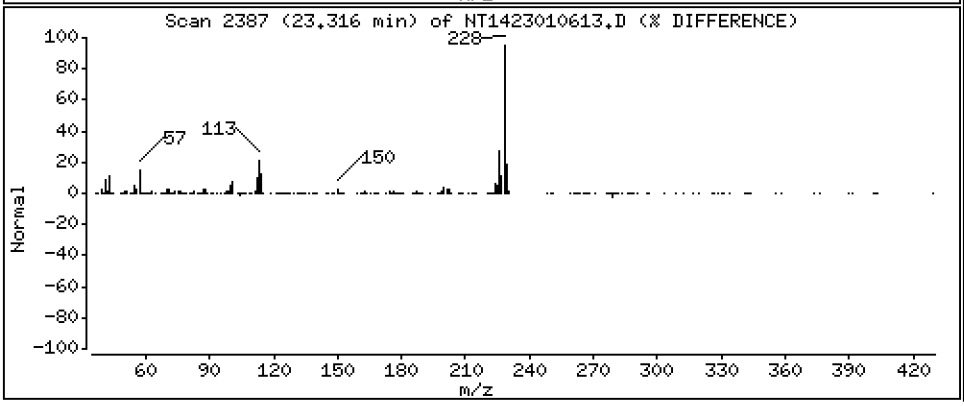












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

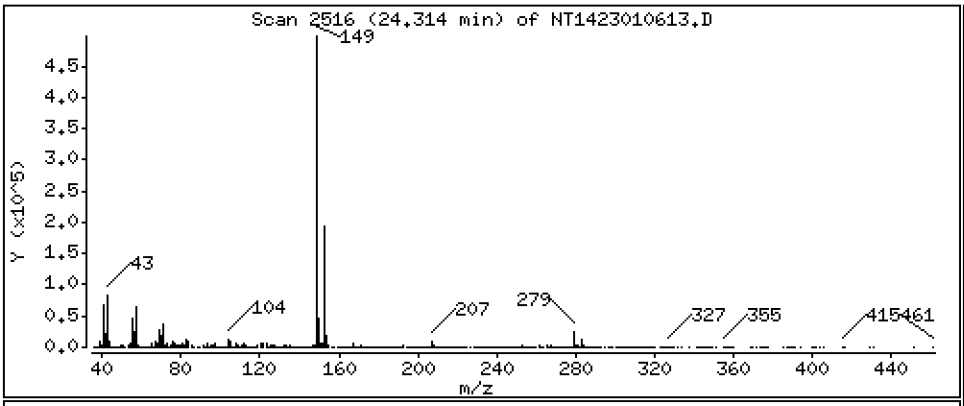
Operator: VTS

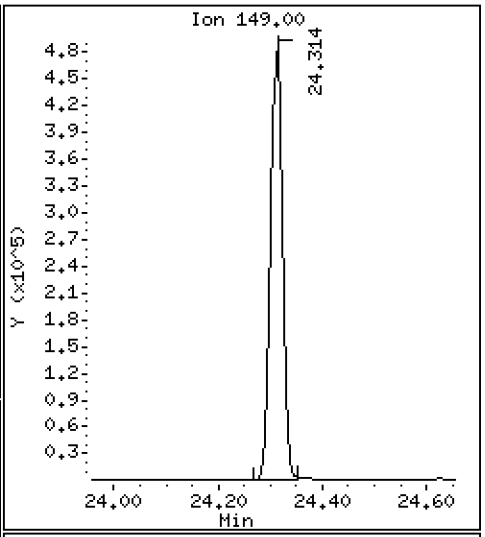
Column phase: ZB-5msi

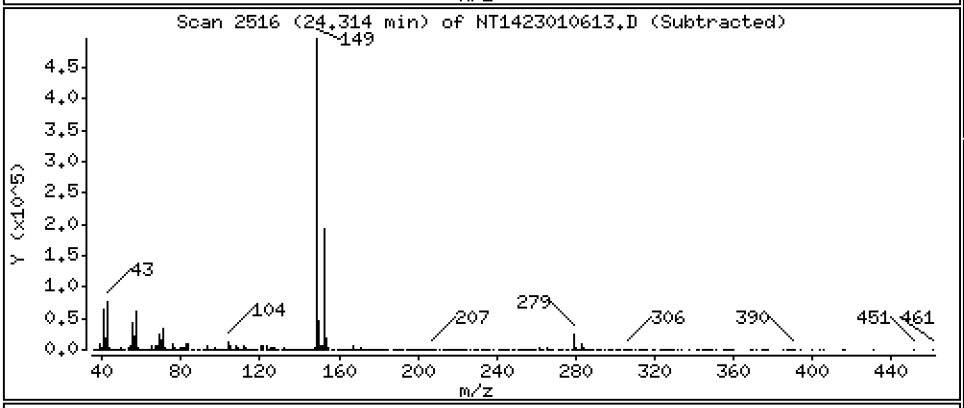
Column diameter: 0.25

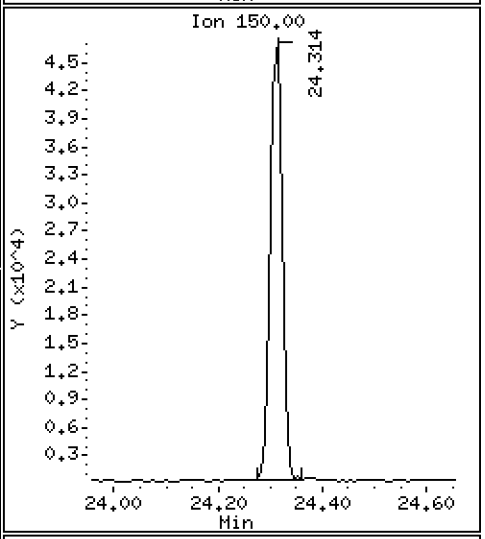
73 Di-n-octylphthalate

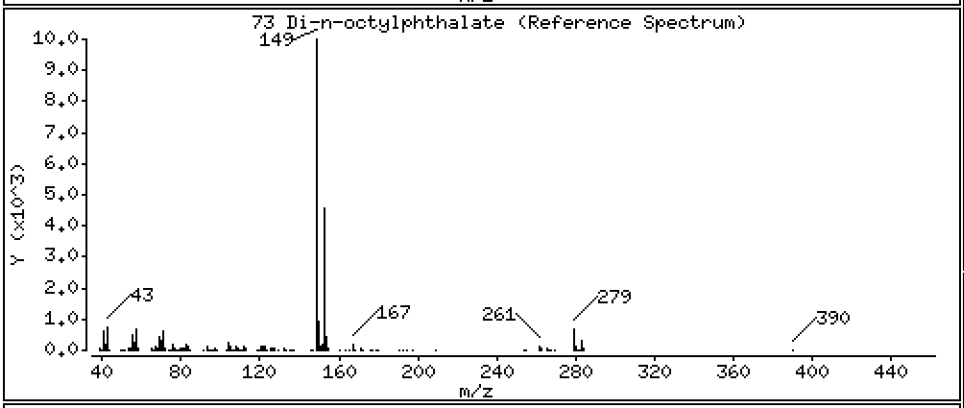
Concentration: 4.704 ug/mL

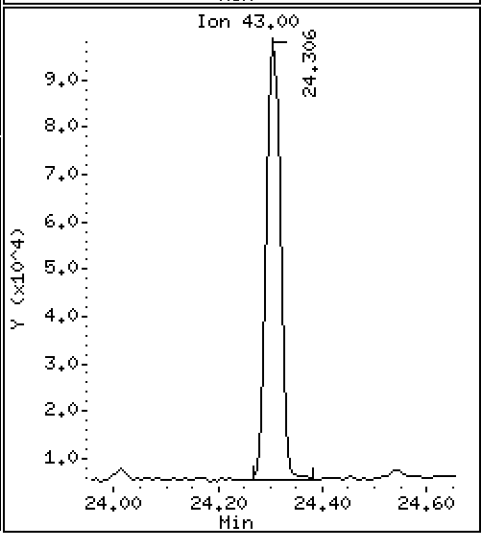


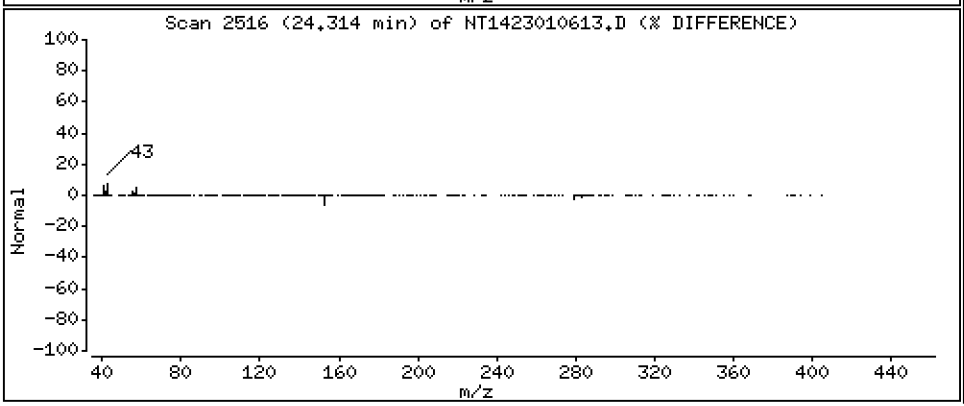












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

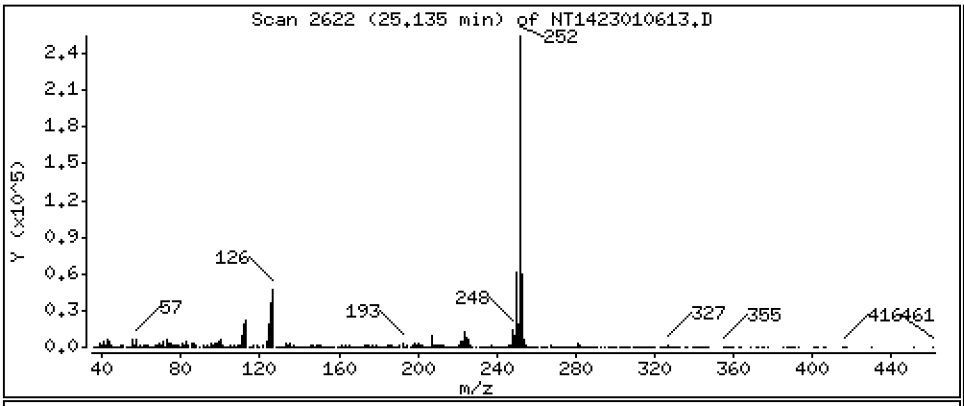
Operator: VTS

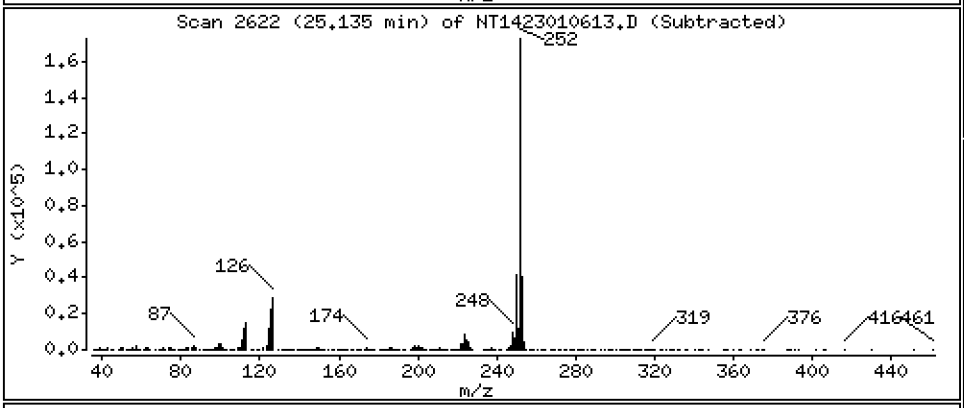
Column phase: ZB-5msi

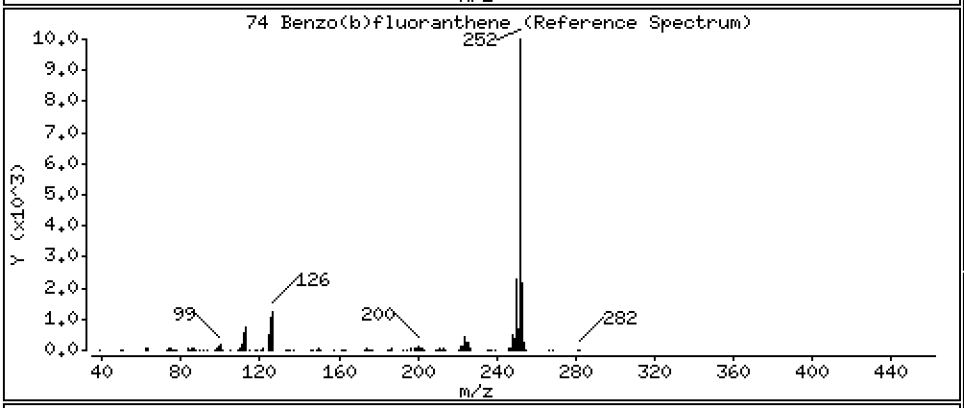
Column diameter: 0.25

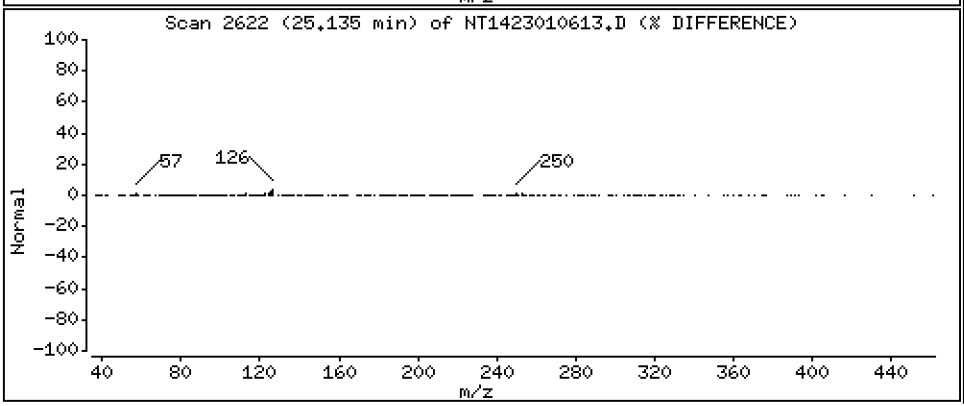
74 Benzo(b)fluoranthene

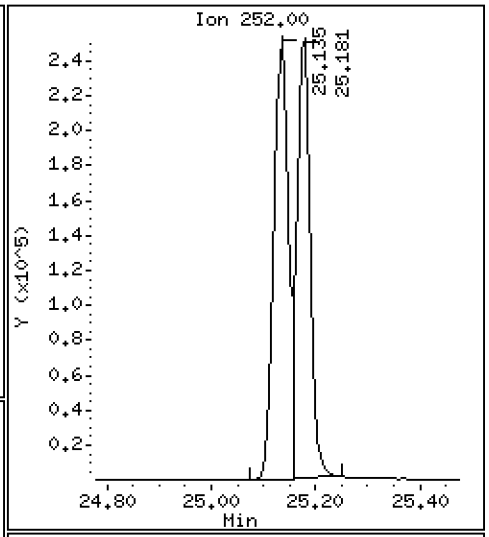
Concentration: 4.776 ug/mL

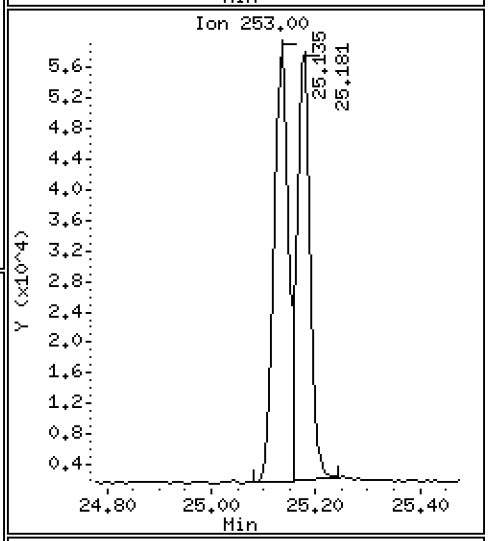


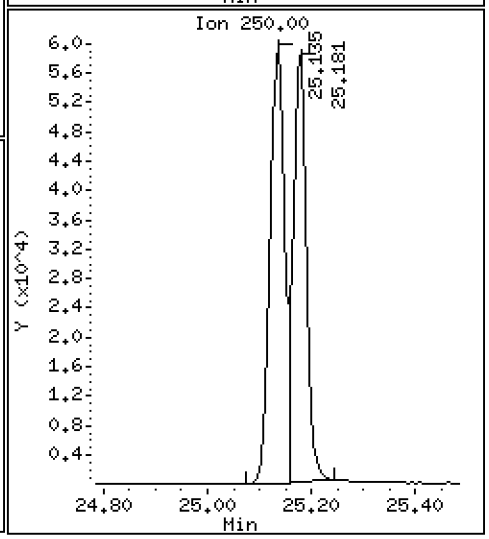












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

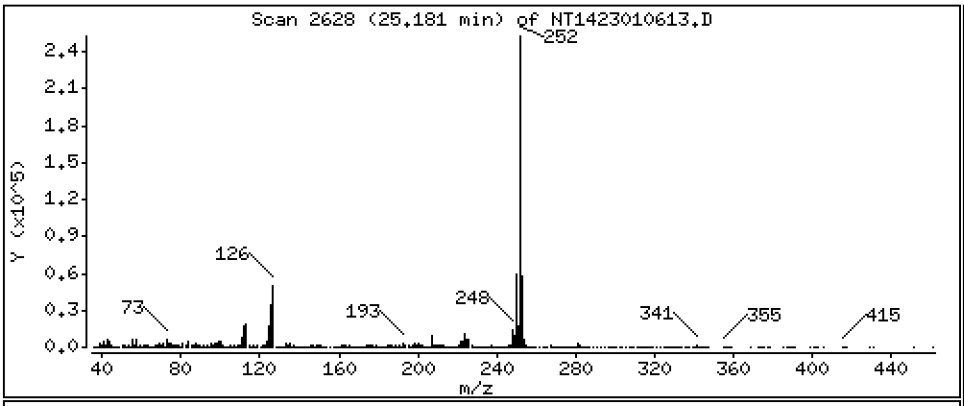
Operator: VTS

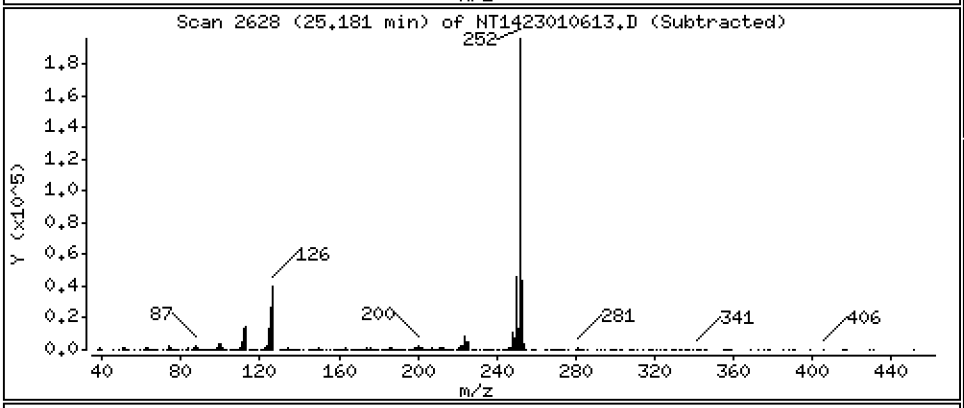
Column phase: ZB-5msi

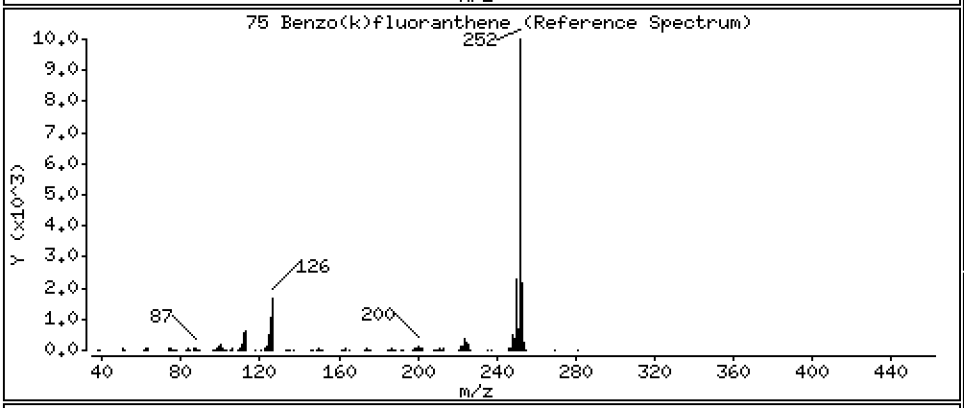
Column diameter: 0.25

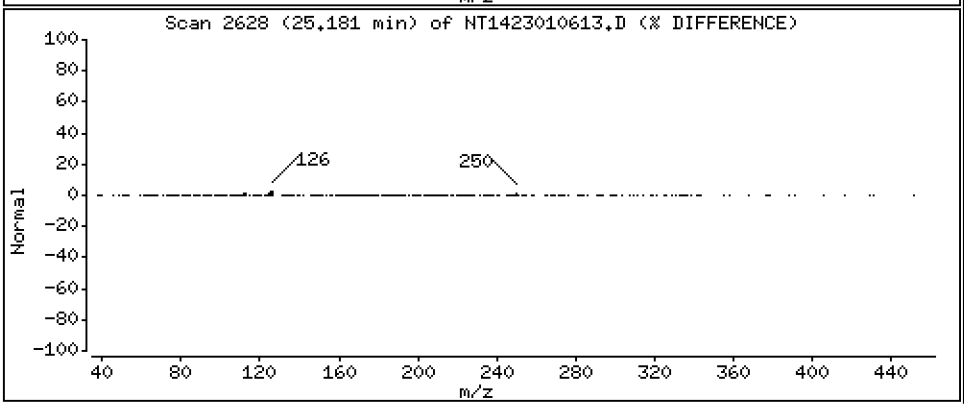
75 Benzo(k)fluoranthene

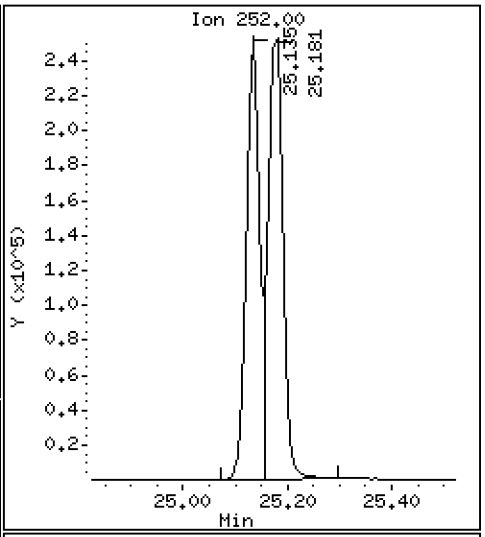
Concentration: 4.599 ug/mL

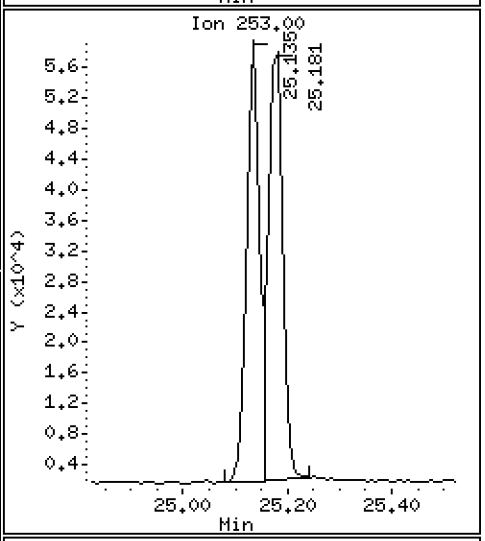


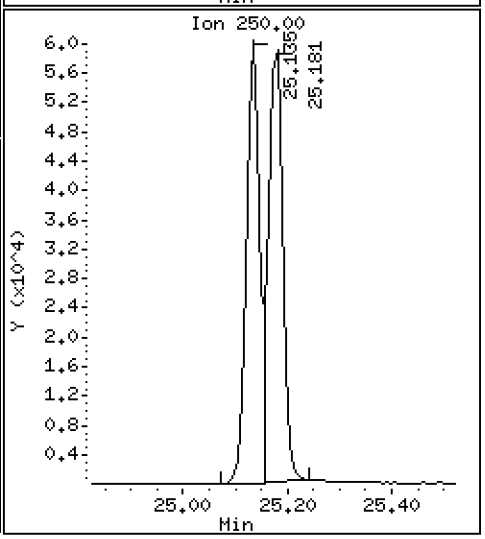












Date : 06-JAN-2023 18:50

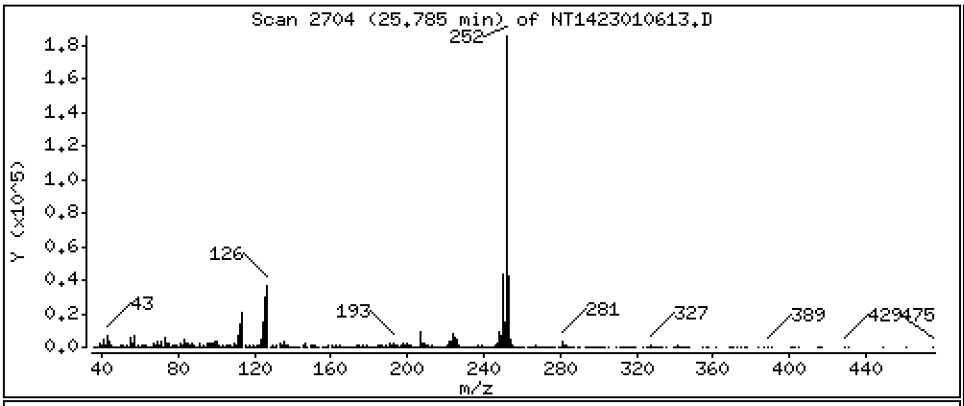
Client ID: Instrument: nt14.i

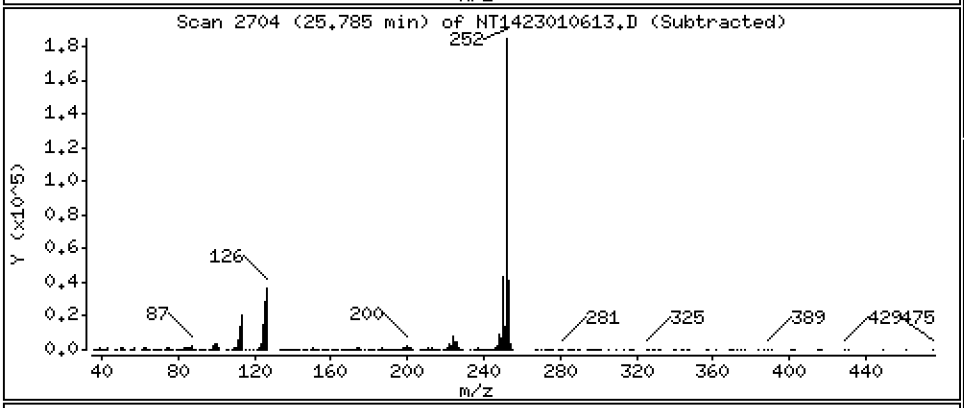
Sample Info: BKL0585-BSD1

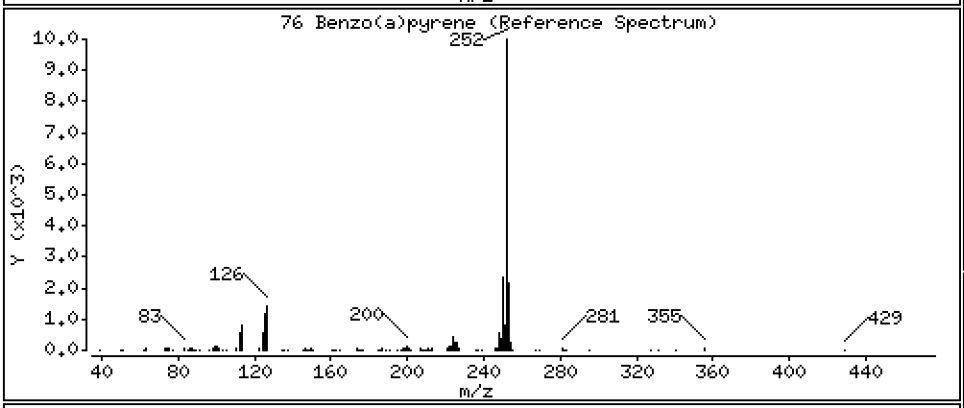
Operator: VTS

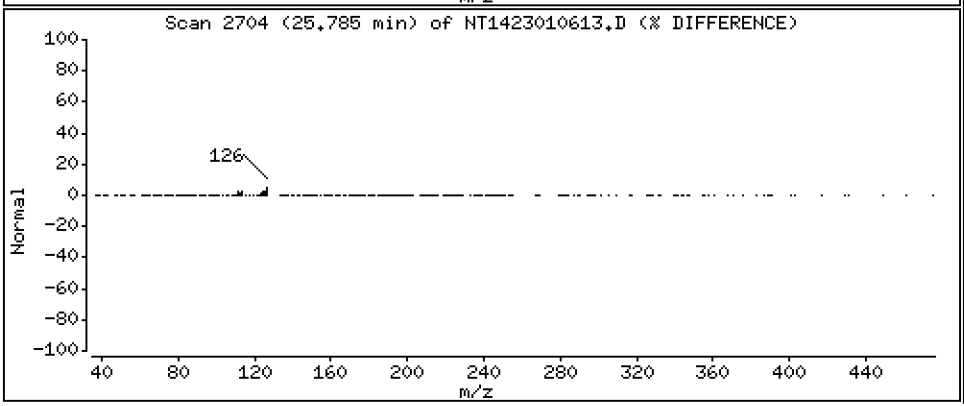
Column phase: ZB-5msi Column diameter: 0.25

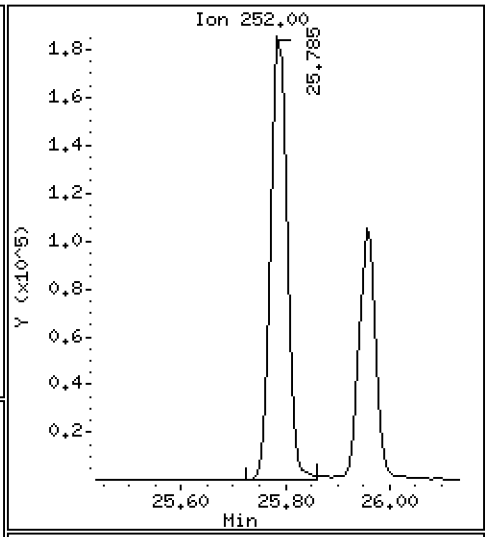
76 Benzo(a)pyrene Concentration: 4.617 ug/mL

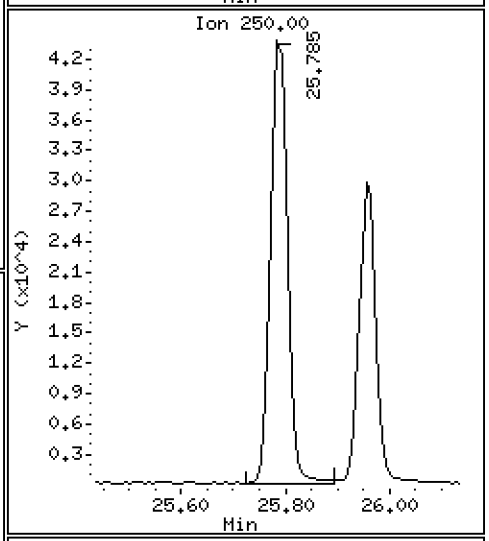


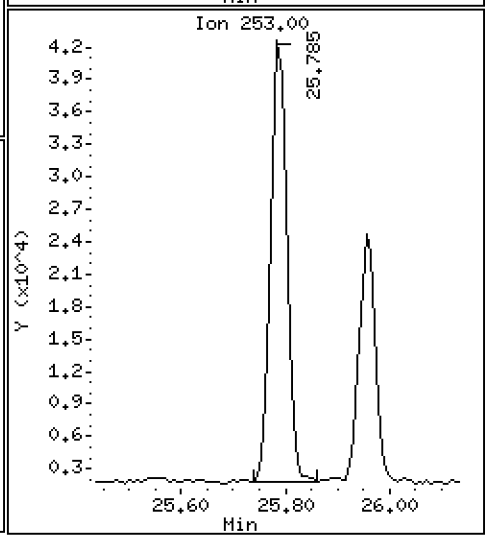












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

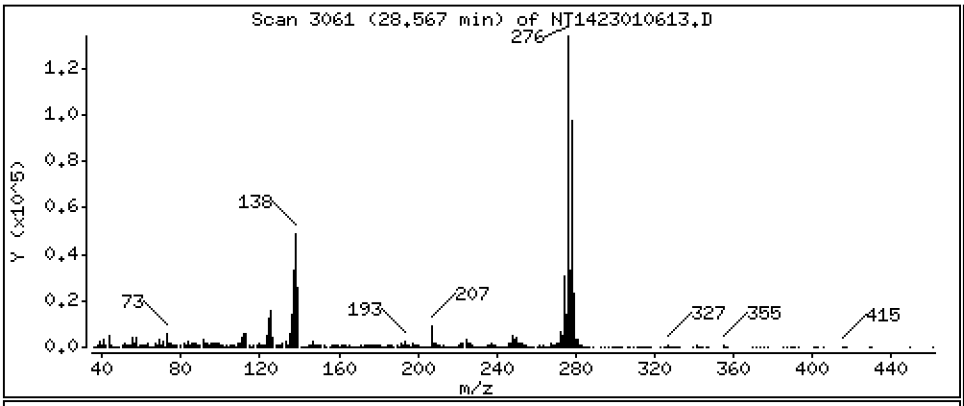
Operator: VTS

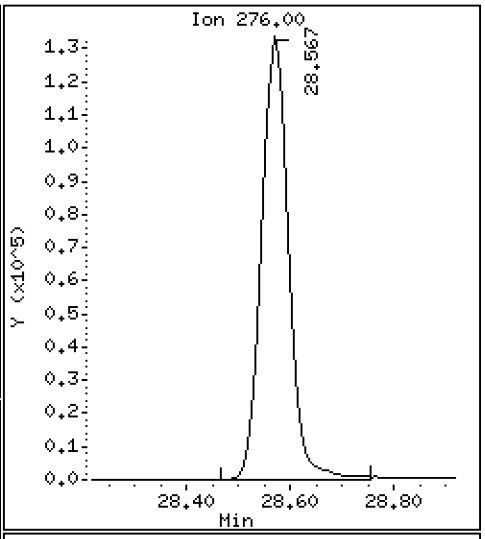
Column phase: ZB-5msi

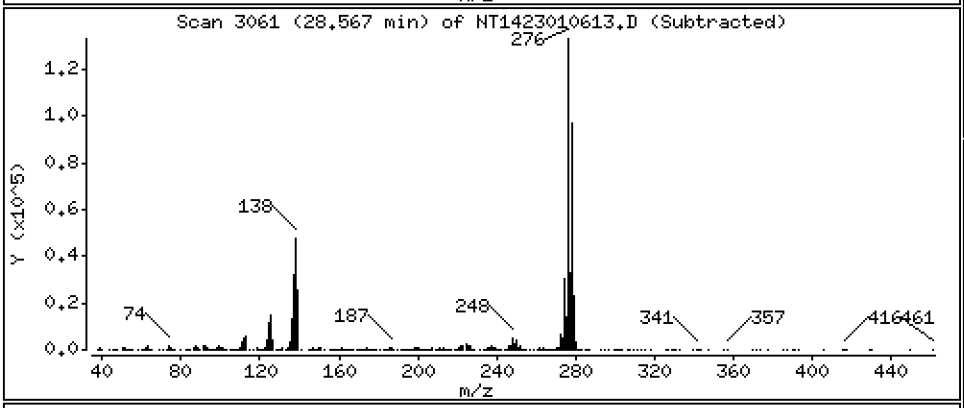
Column diameter: 0.25

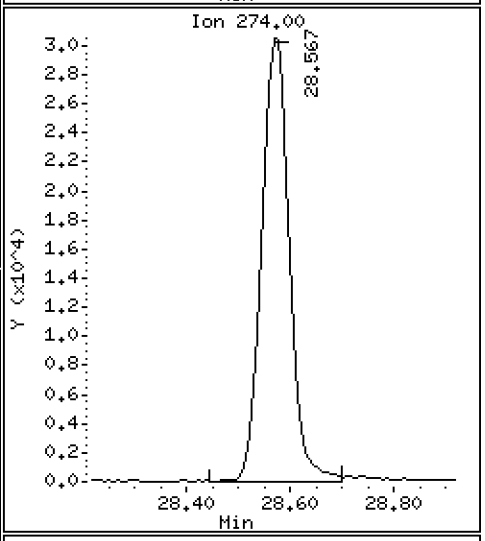
78 Indeno(1,2,3-cd)pyrene

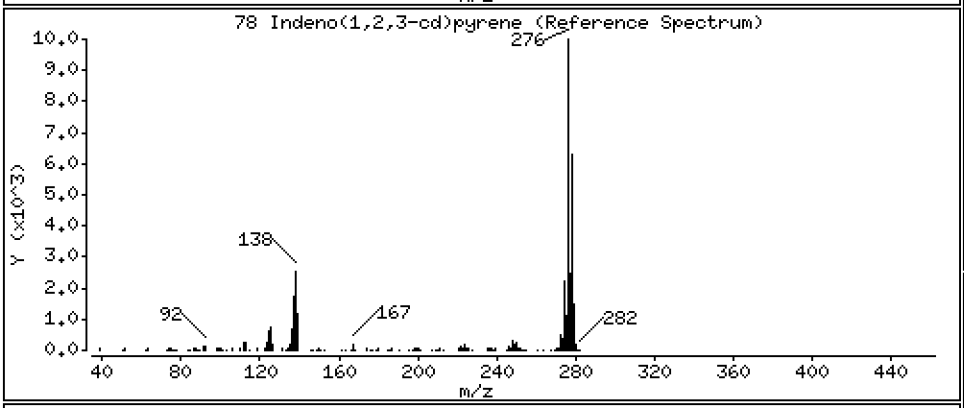
Concentration: 4.926 ug/mL

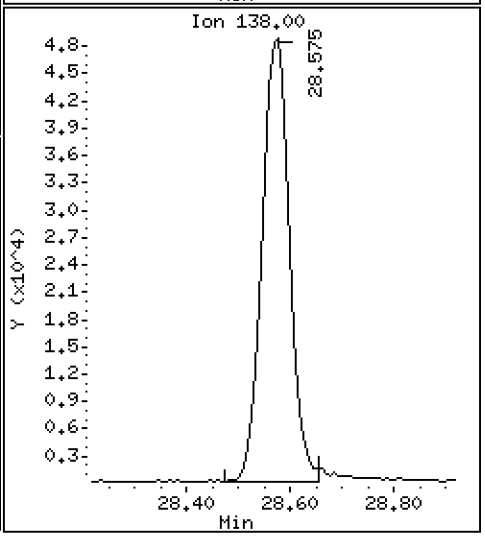


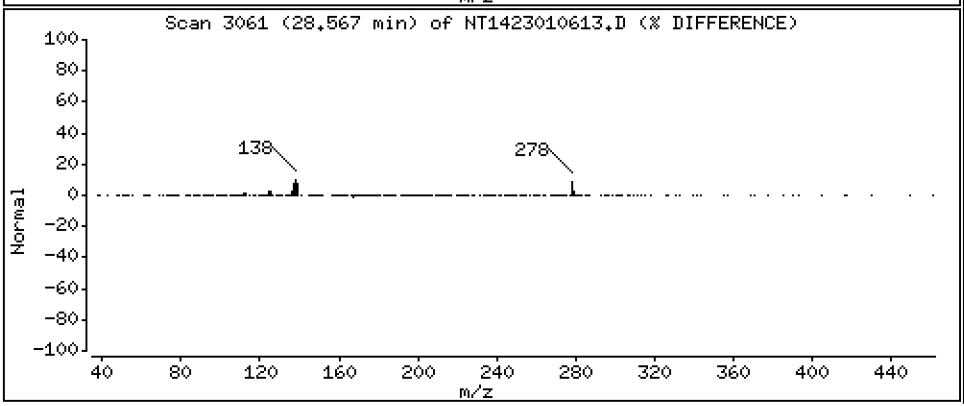












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

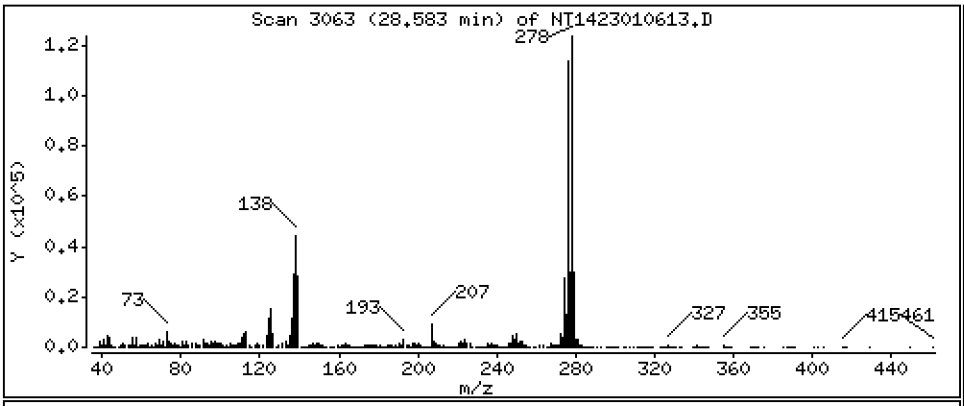
Operator: VTS

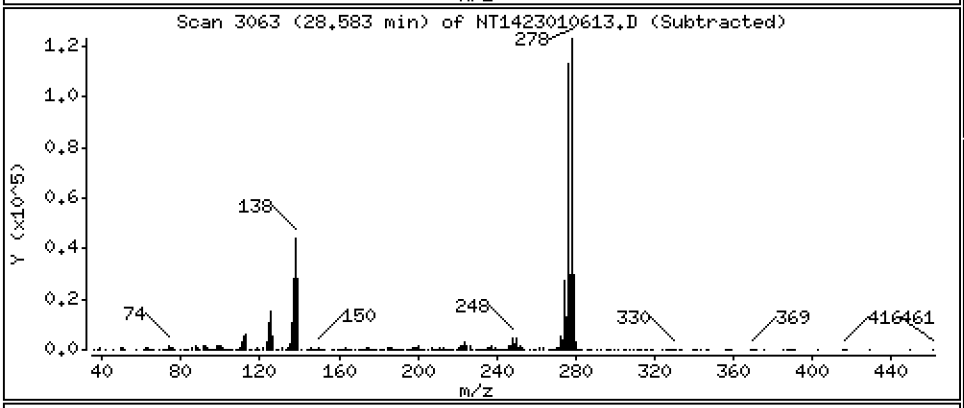
Column phase: ZB-5msi

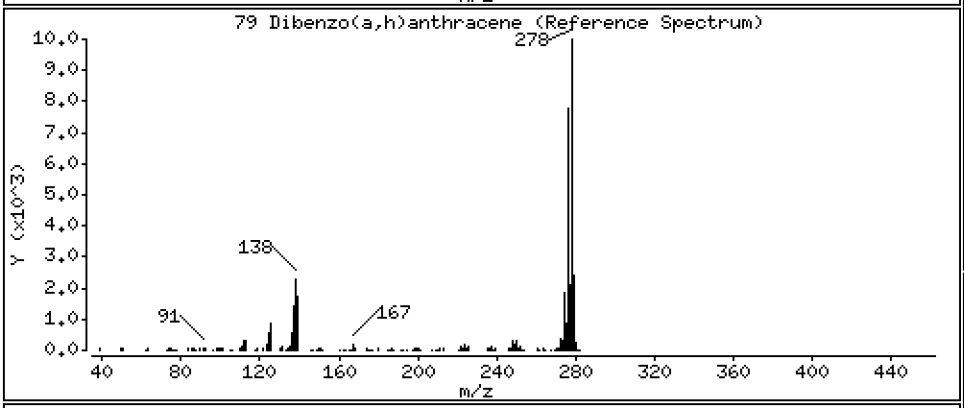
Column diameter: 0.25

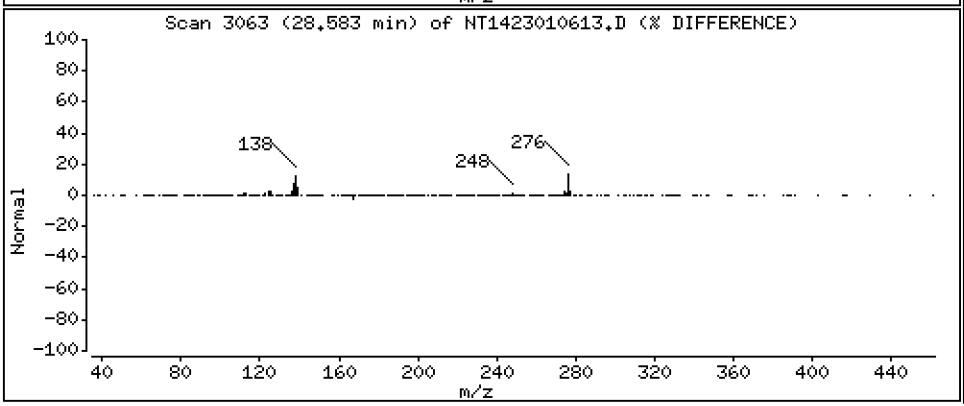
79 Dibenzo(a,h)anthracene

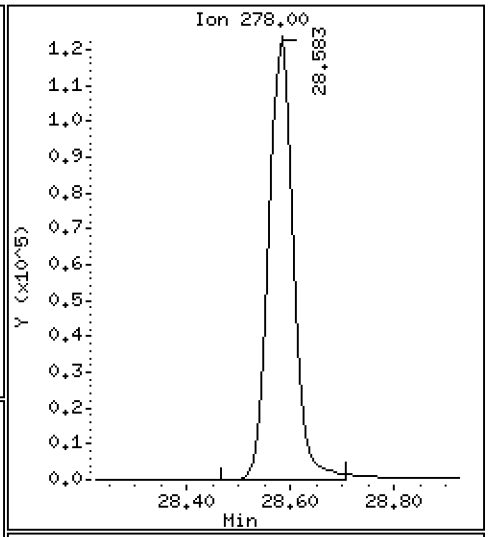
Concentration: 4.891 ug/mL

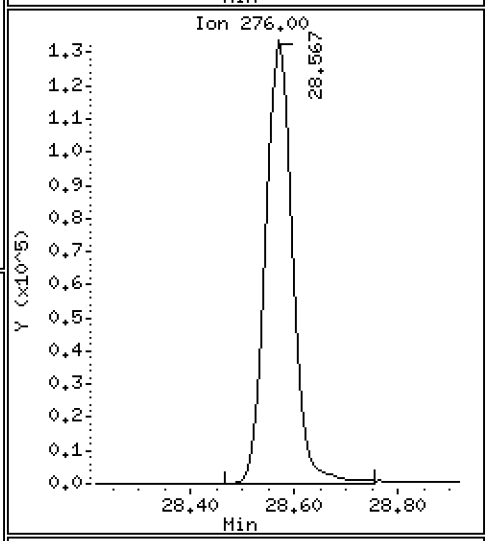


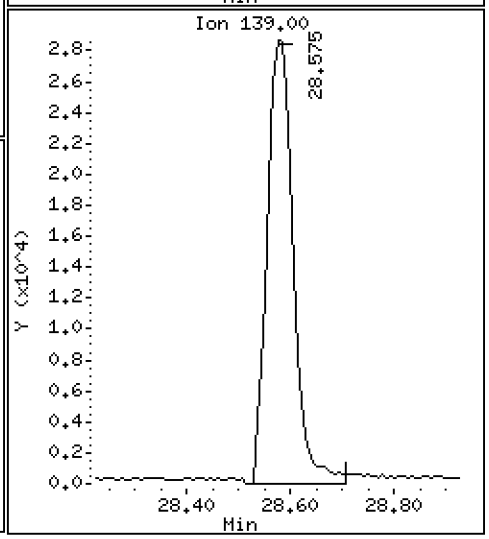












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

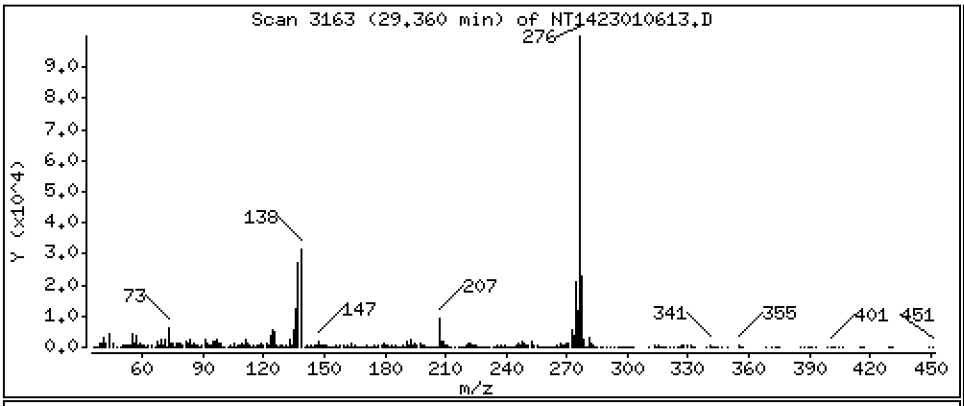
Operator: VTS

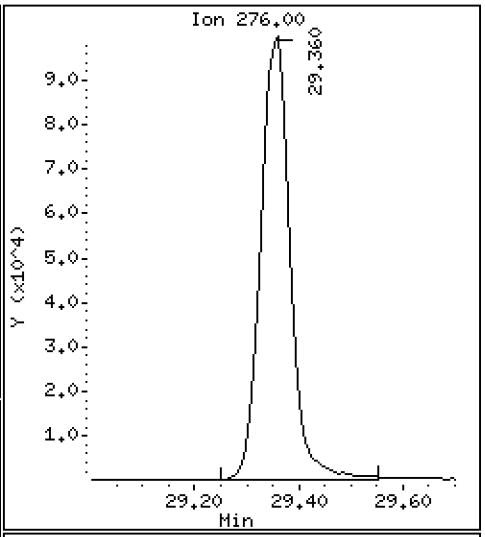
Column phase: ZB-5msi

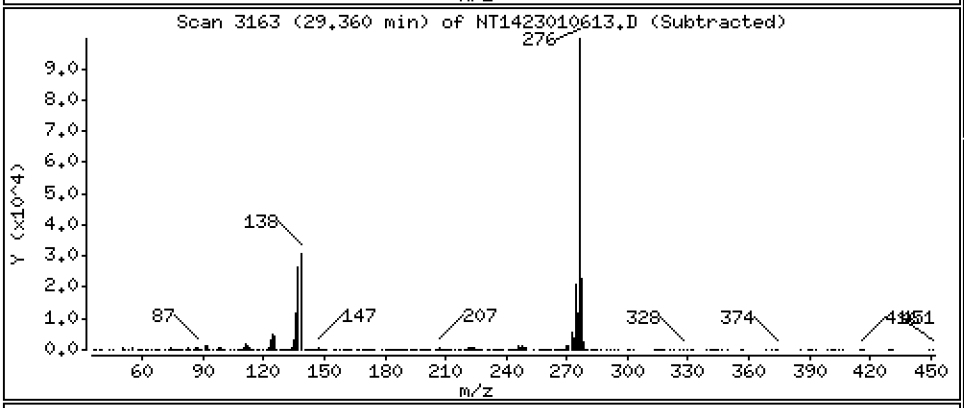
Column diameter: 0.25

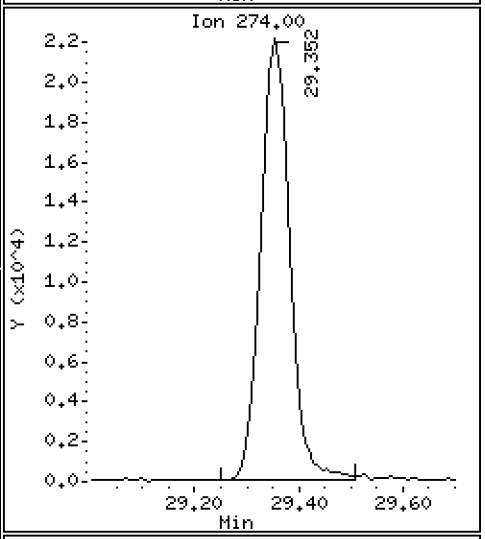
80 Benzo(g,h,i)perylene

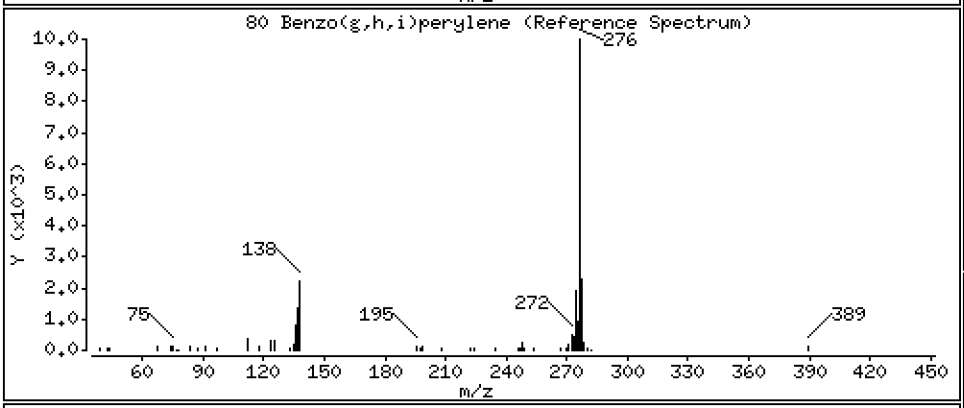
Concentration: 4.785 ug/mL

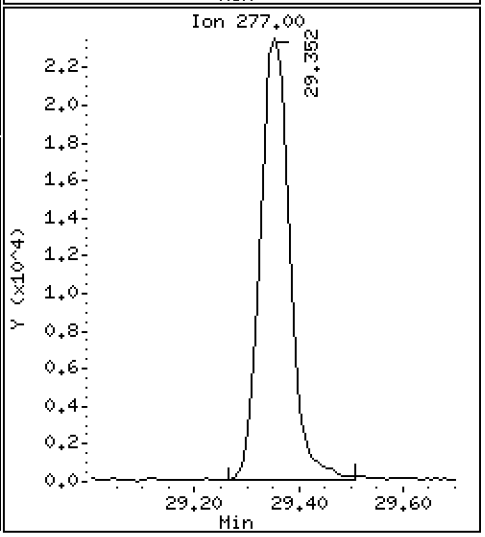


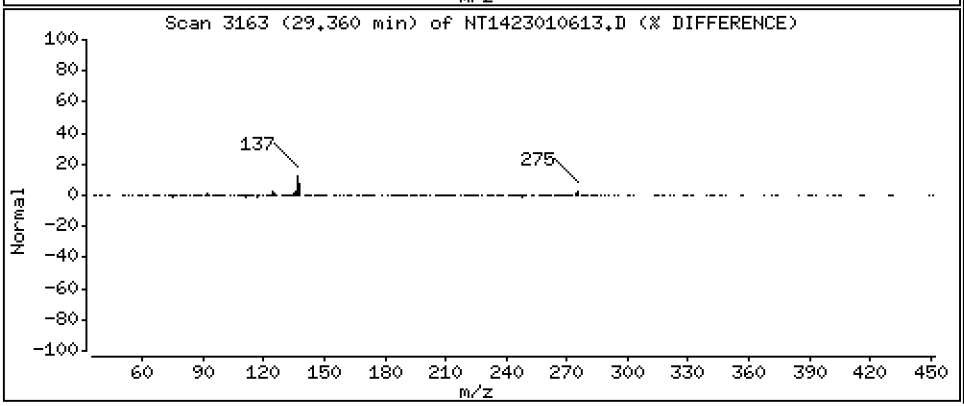












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

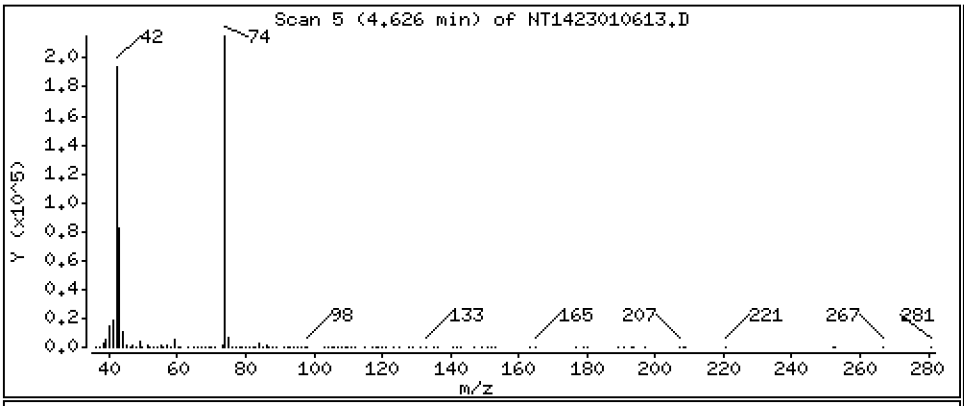
Operator: VTS

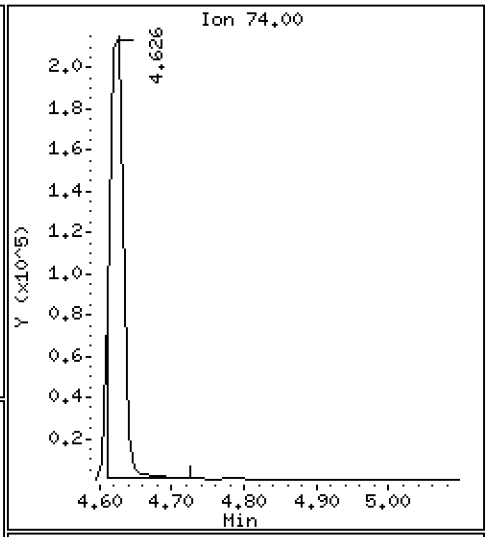
Column phase: ZB-5msi

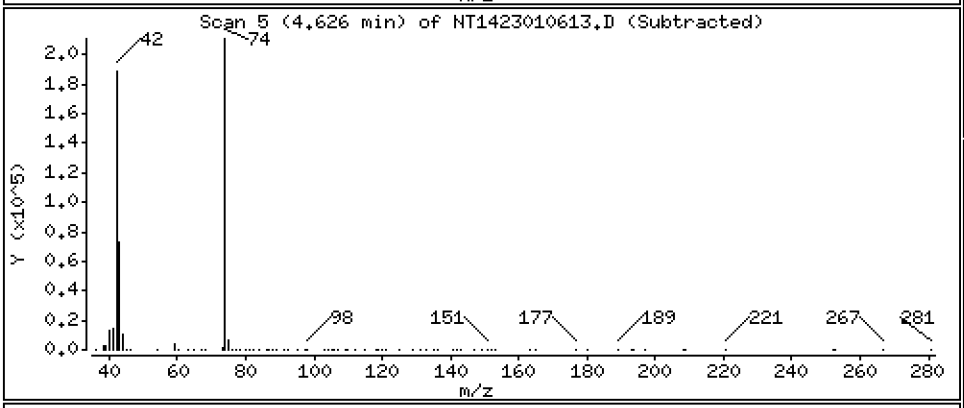
Column diameter: 0.25

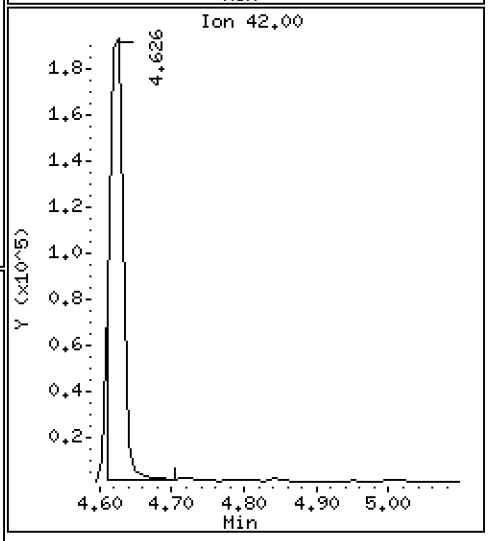
90 N-Nitrosodimethylamine

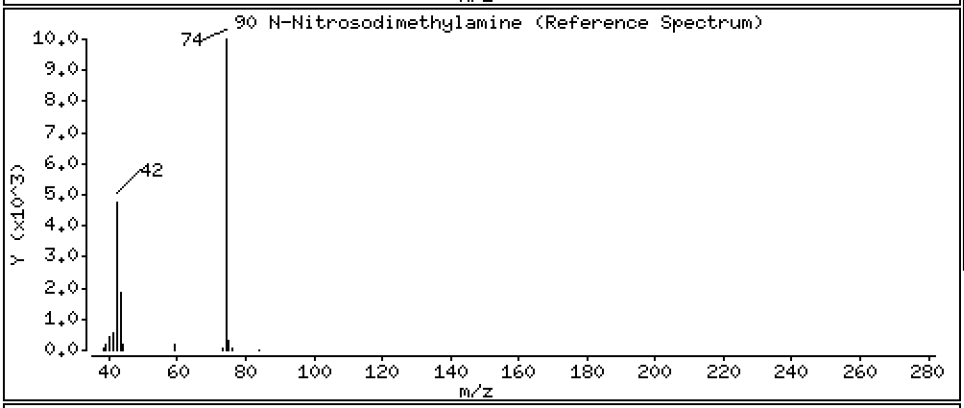
Concentration: 9.791 ug/mL

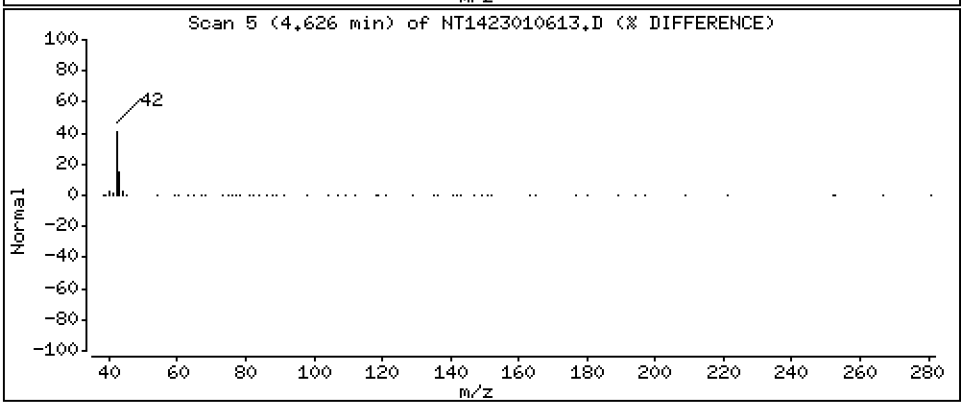












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

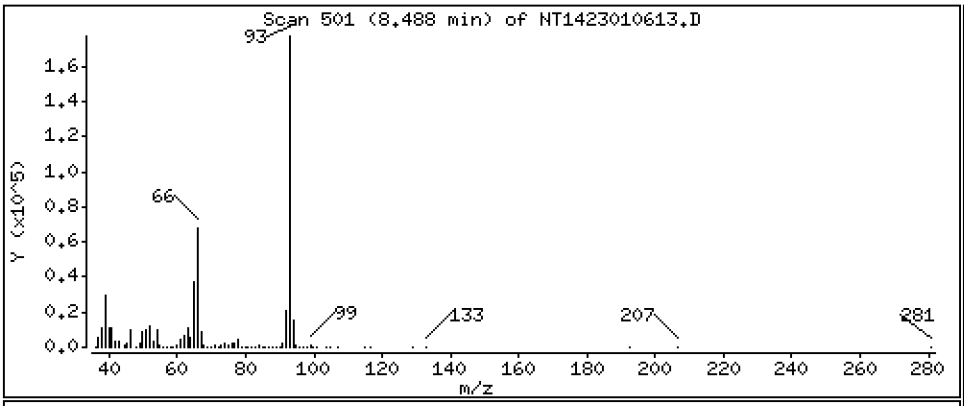
Operator: VTS

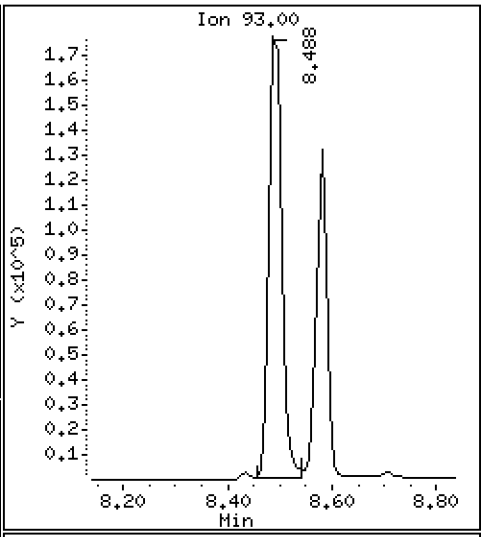
Column phase: ZB-5msi

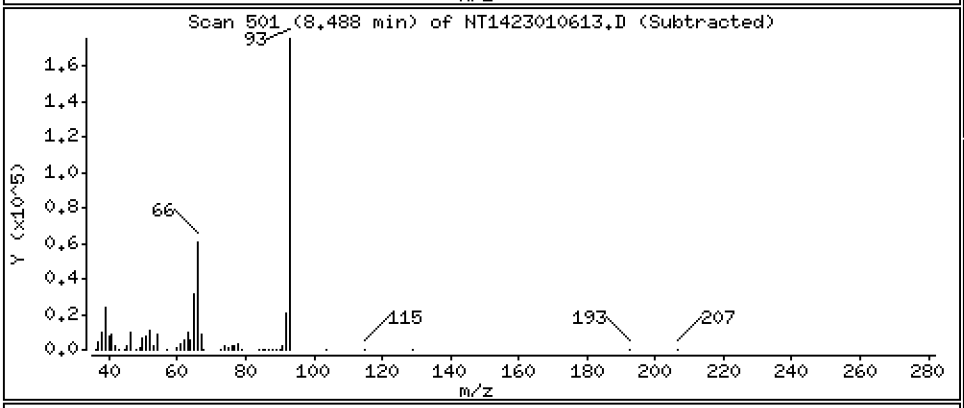
Column diameter: 0.25

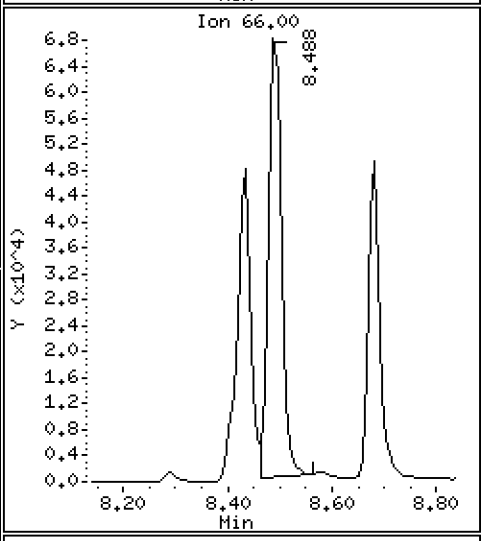
91 Aniline

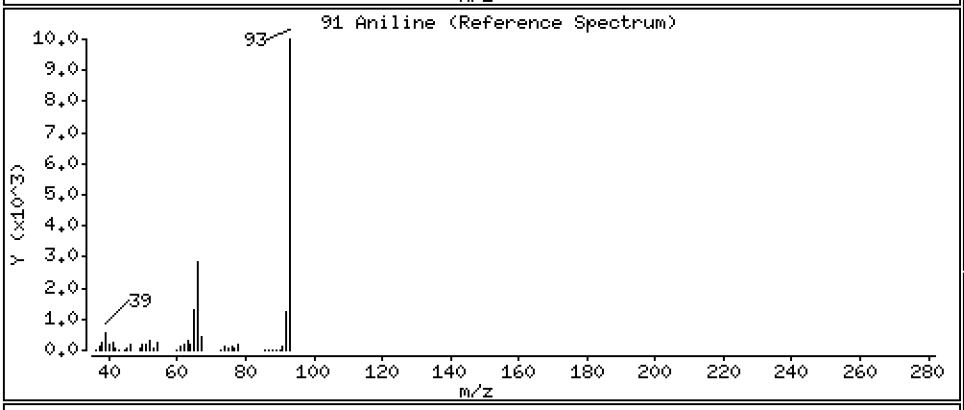
Concentration: 4.844 ug/mL

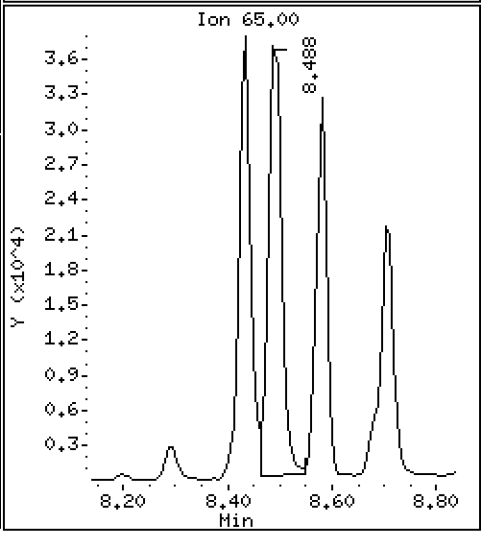


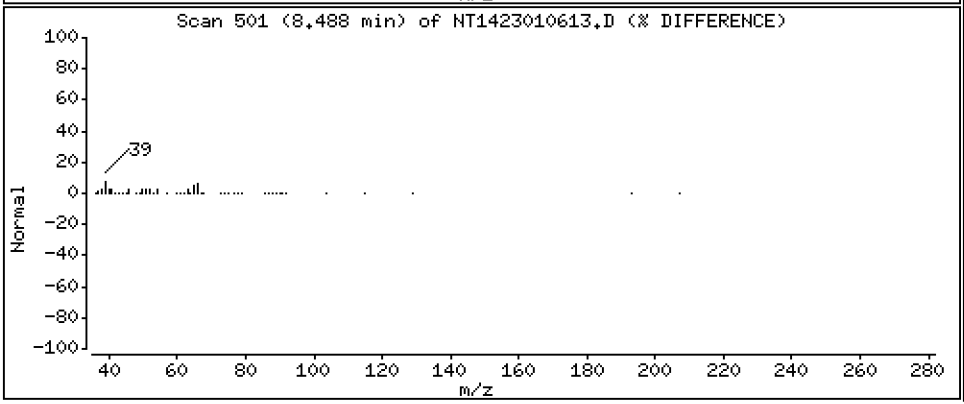












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

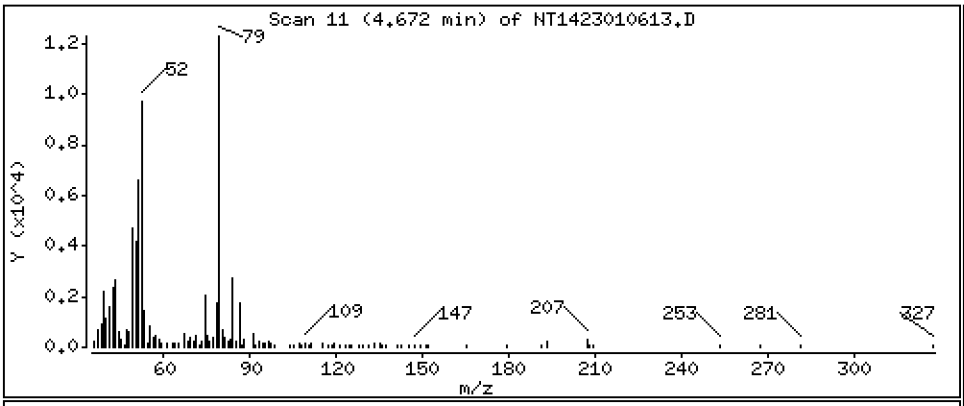
Operator: VTS

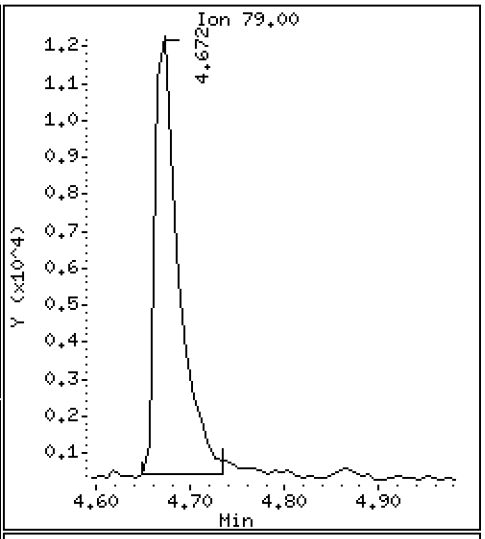
Column phase: ZB-5msi

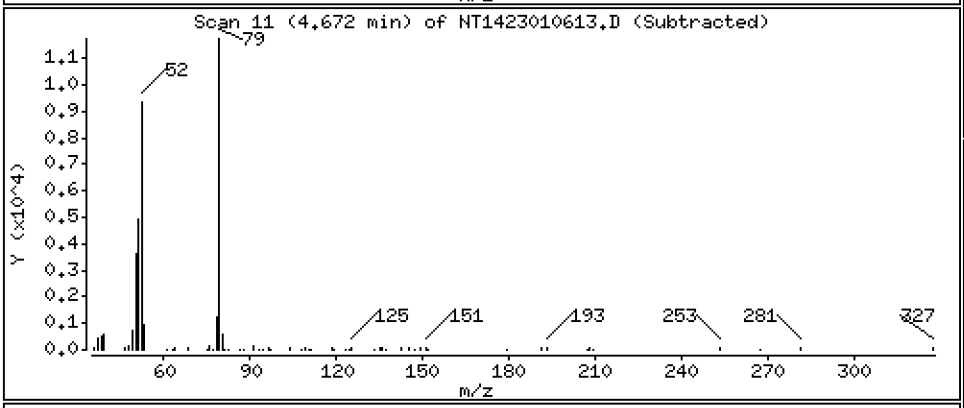
Column diameter: 0.25

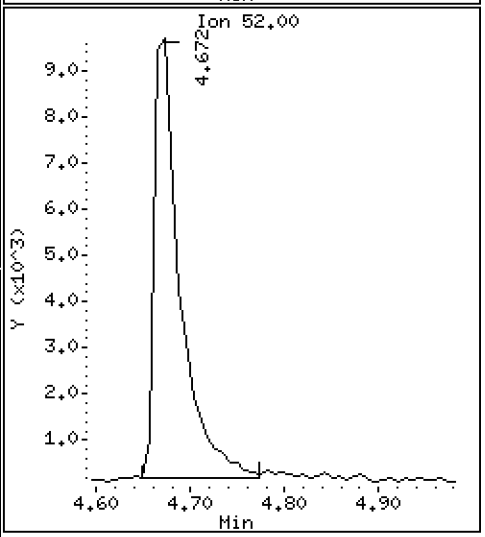
103 Pyridine

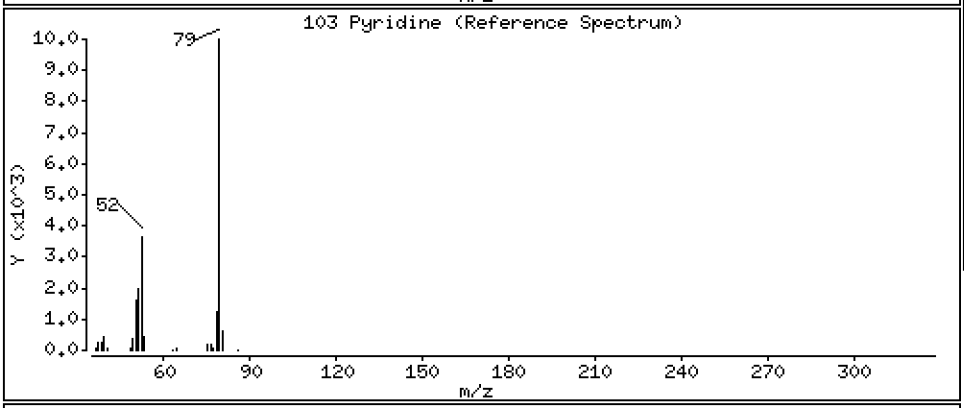
Concentration: 0.2186 ug/mL

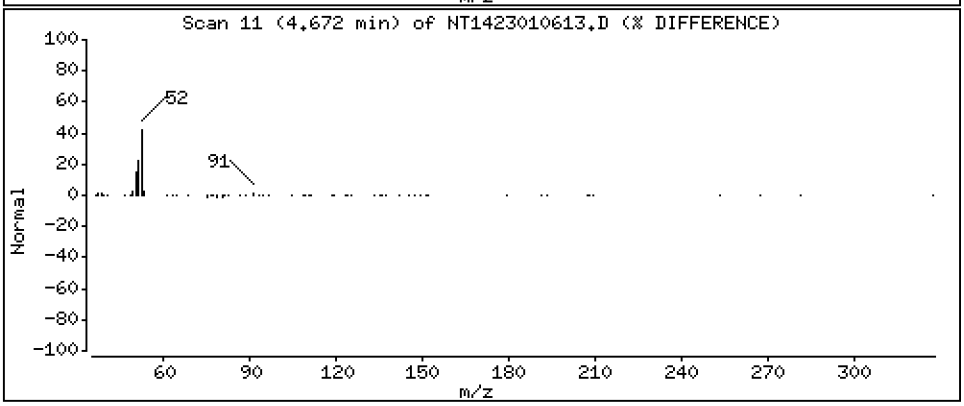












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

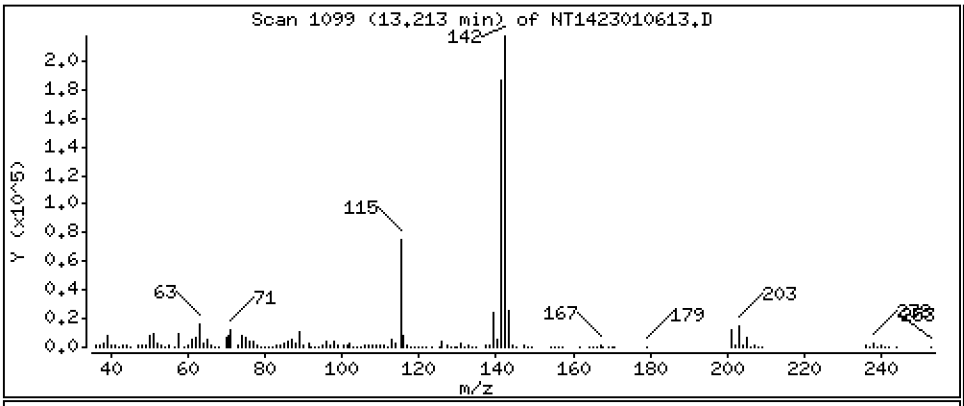
Operator: VTS

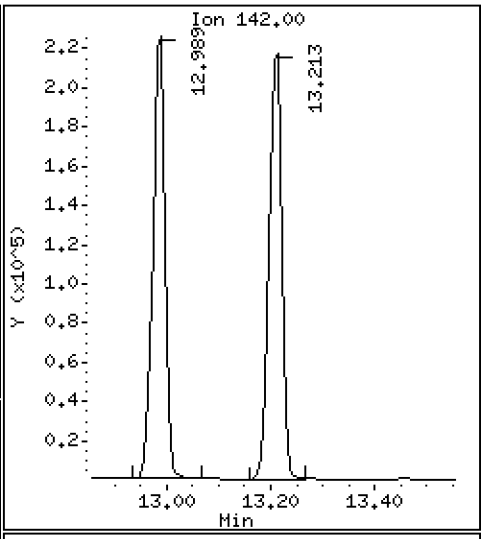
Column phase: ZB-5msi

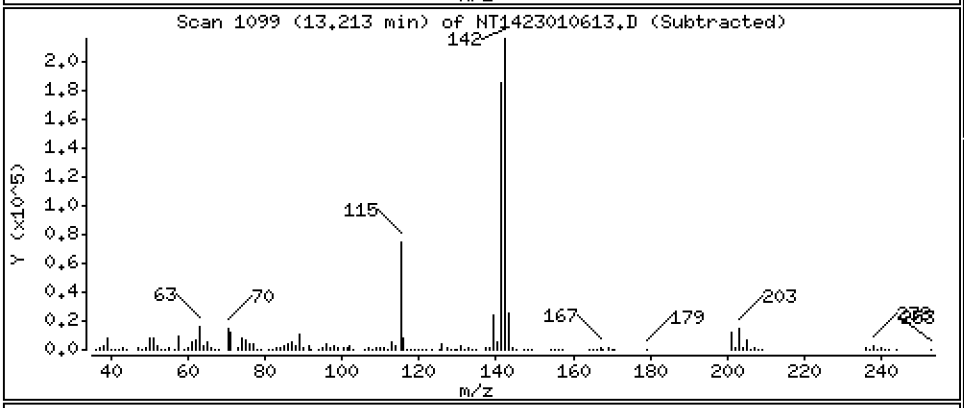
Column diameter: 0.25

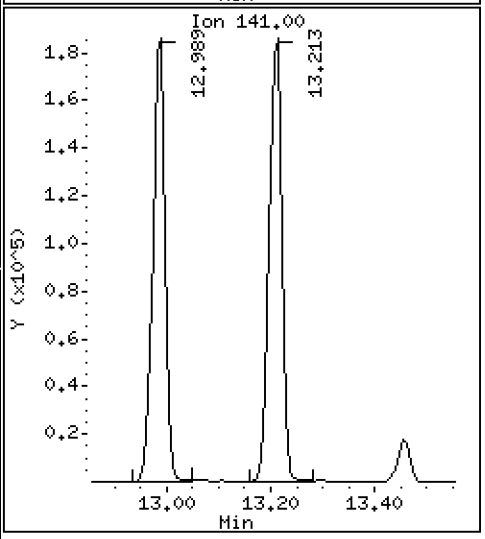
105 1-methylnaphthalene

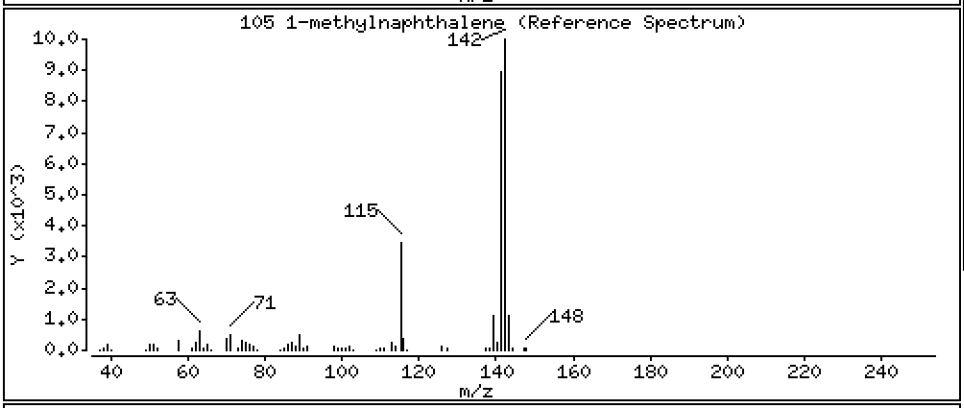
Concentration: 4.038 ug/mL

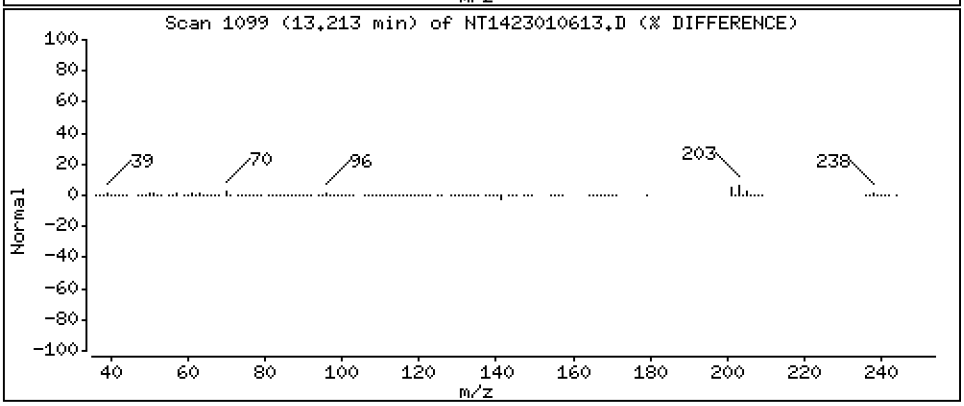












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D

Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

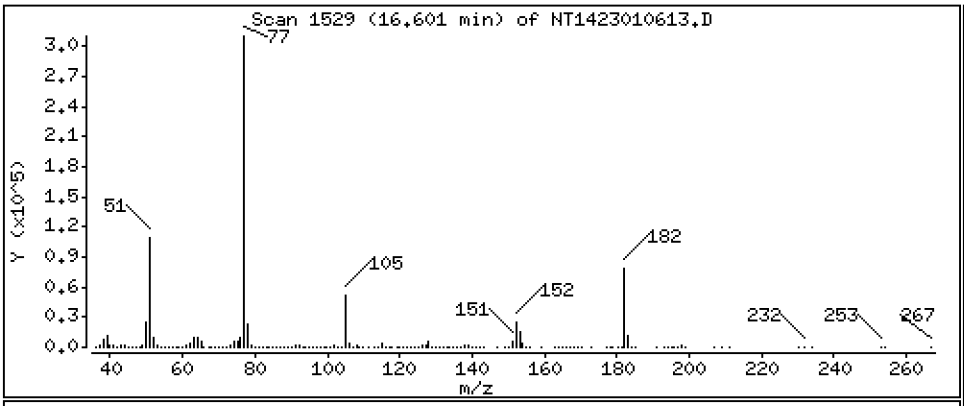
Operator: VTS

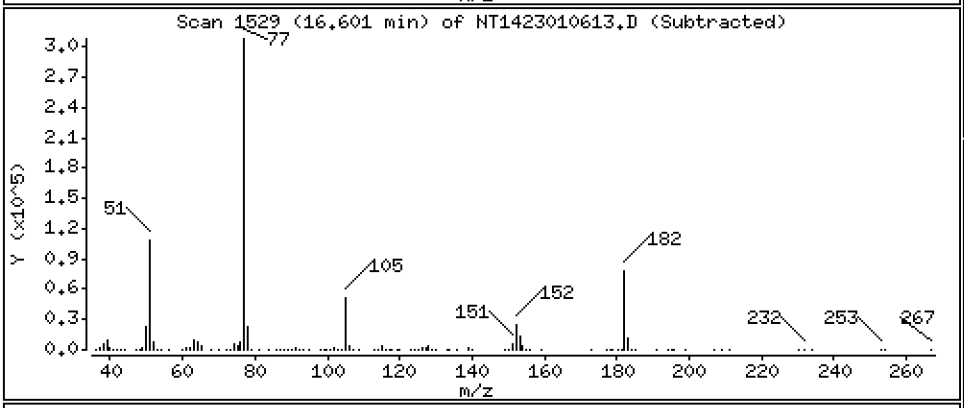
Column phase: ZB-5msi

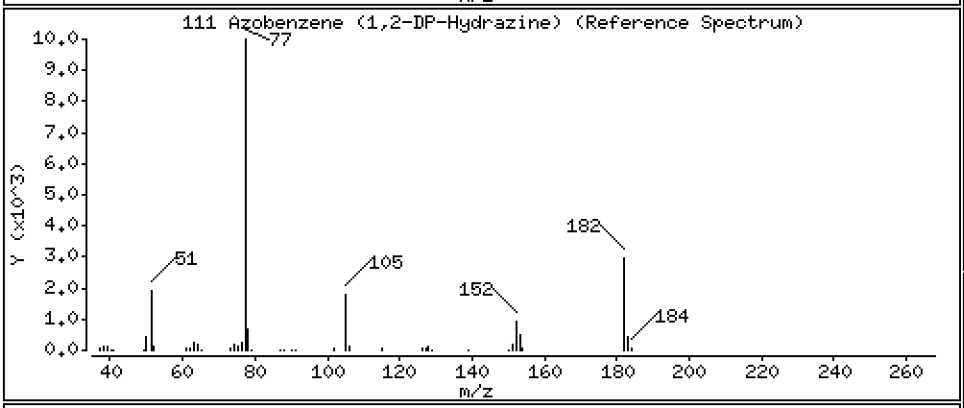
Column diameter: 0.25

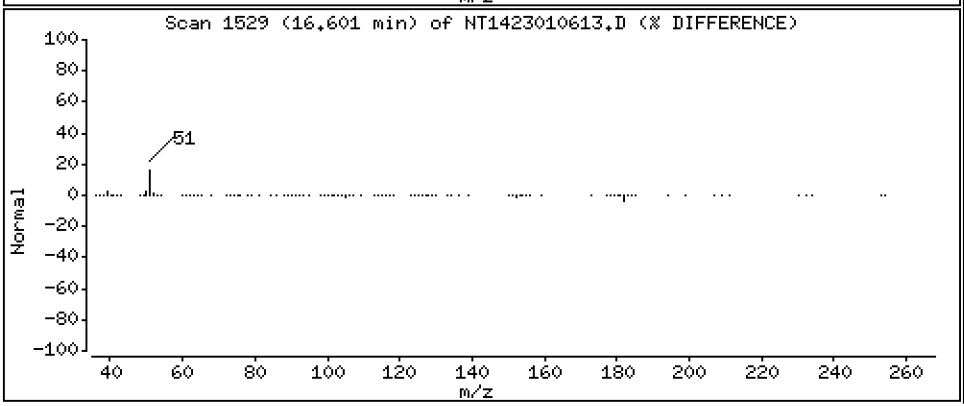
111 Azobenzene (1,2-DP-Hydrazine)

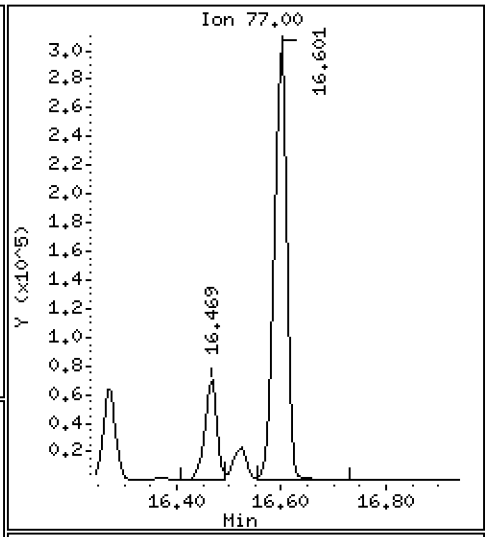
Concentration: 5.503 ug/mL

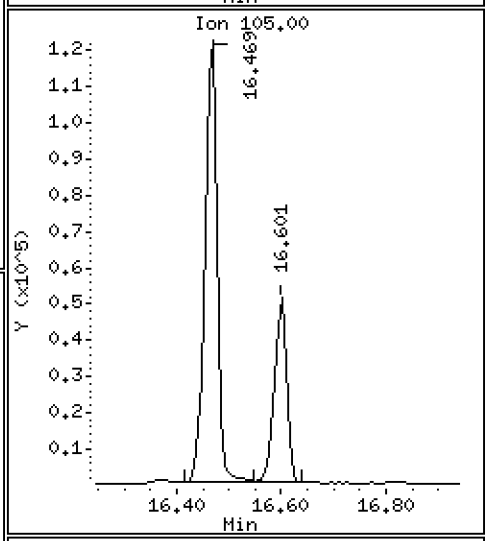


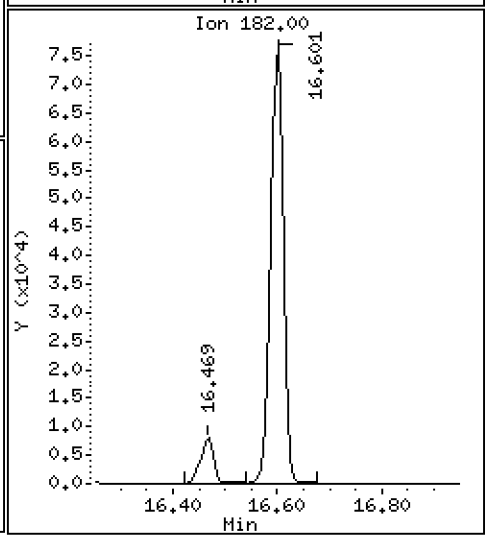












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

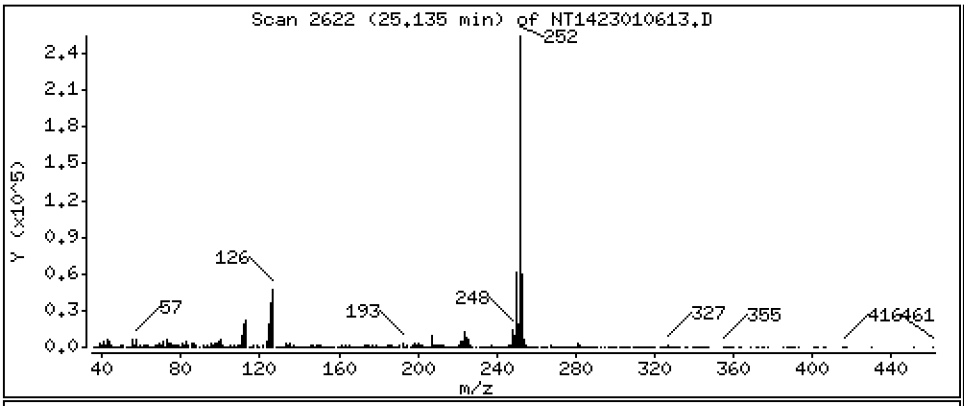
Operator: VTS

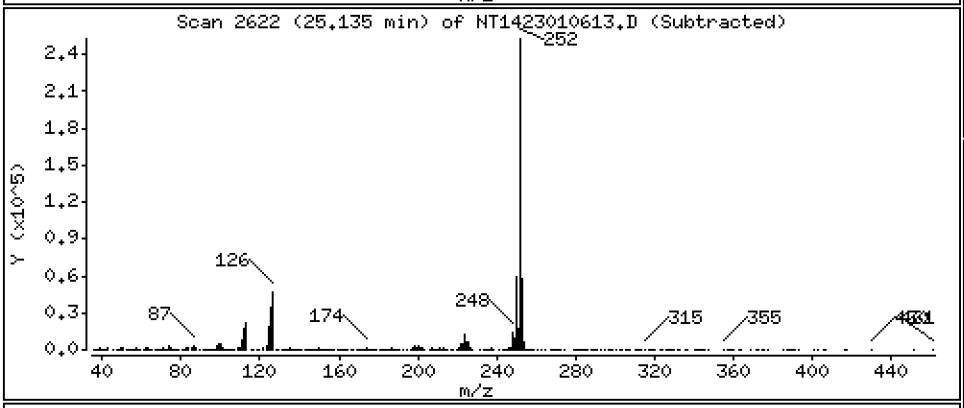
Column phase: ZB-5msi

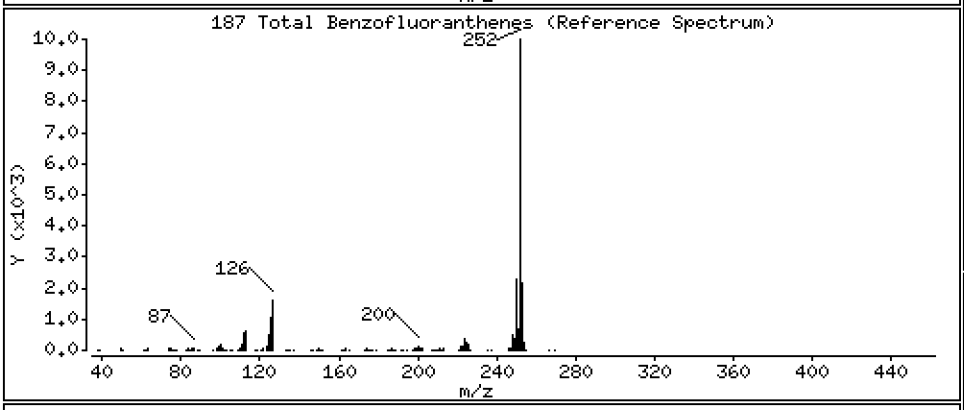
Column diameter: 0.25

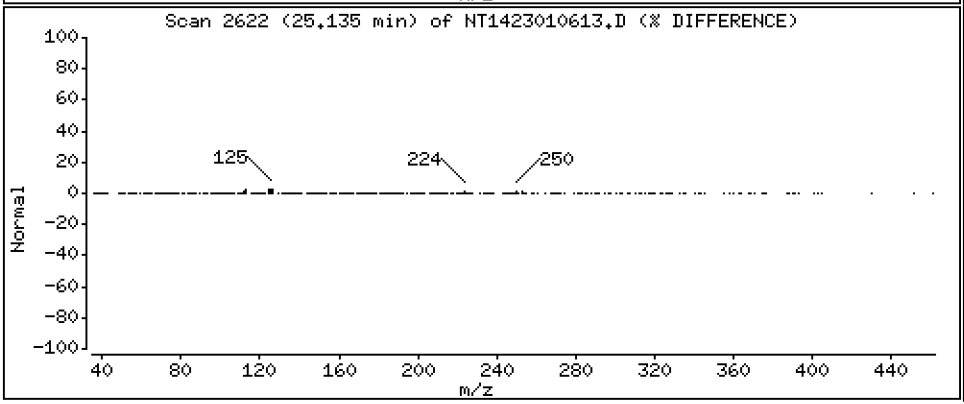
187 Total Benzofluoranthenes

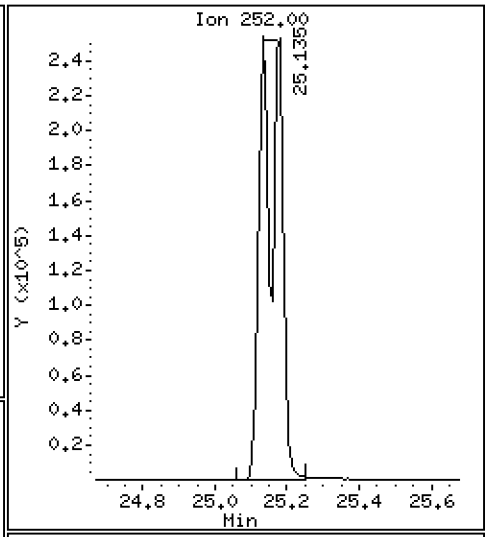
Concentration: 9.328 ug/mL

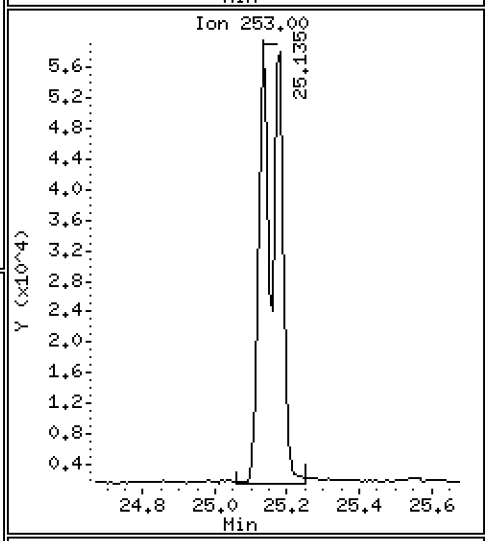


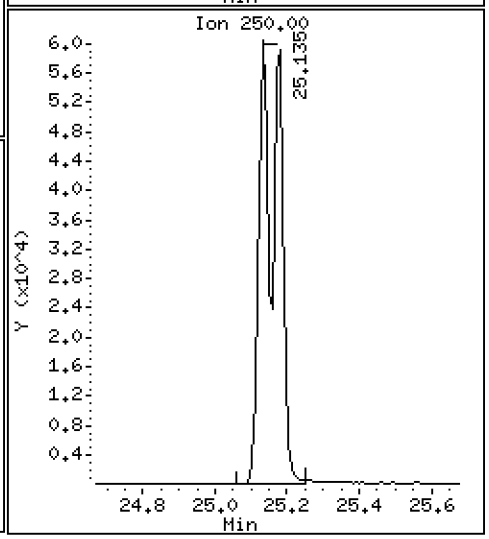












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Date : 06-JAN-2023 18:50

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-BSD1

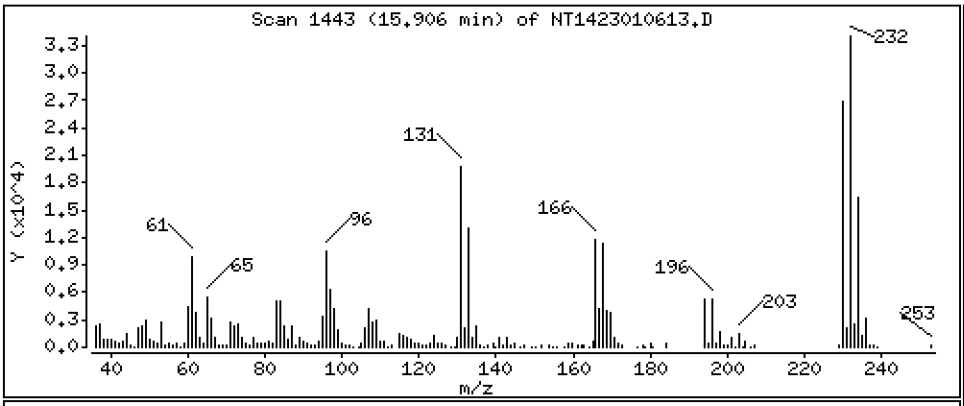
Operator: VTS

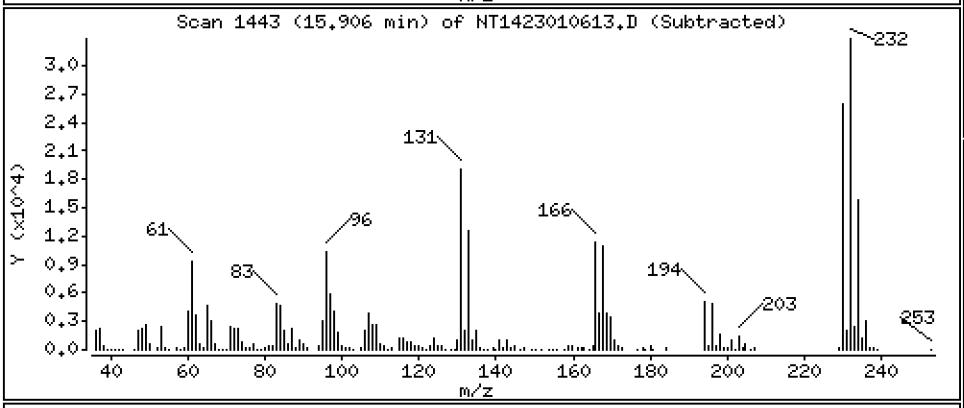
Column phase: ZB-5msi

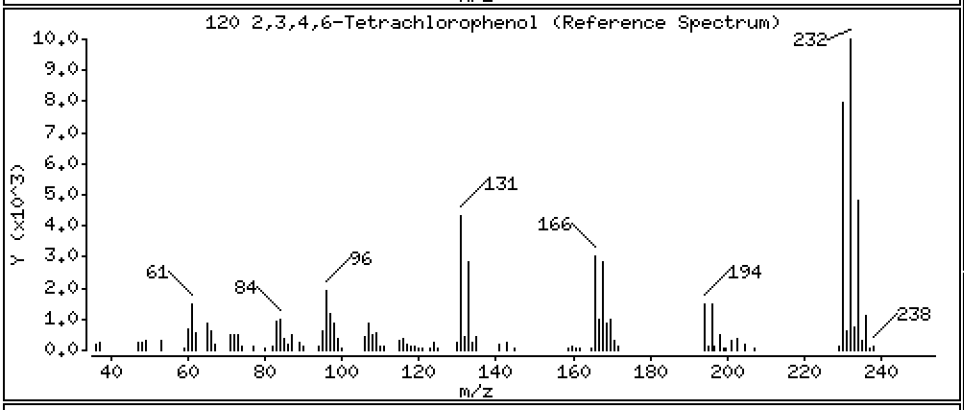
Column diameter: 0.25

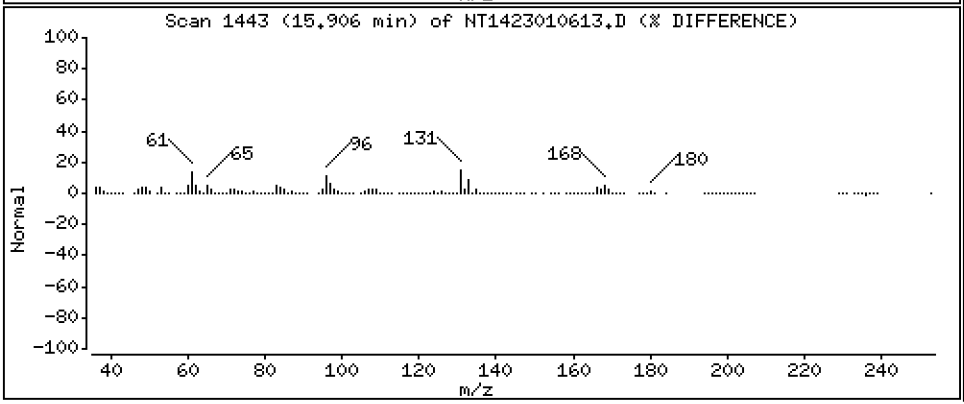
120 2,3,4,6-Tetrachlorophenol

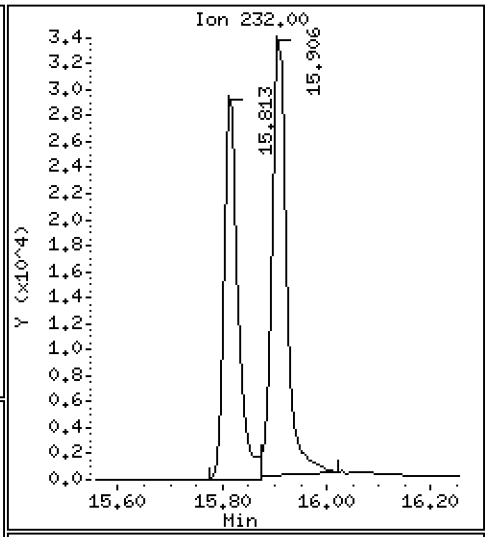
Concentration: 3.598 ug/mL

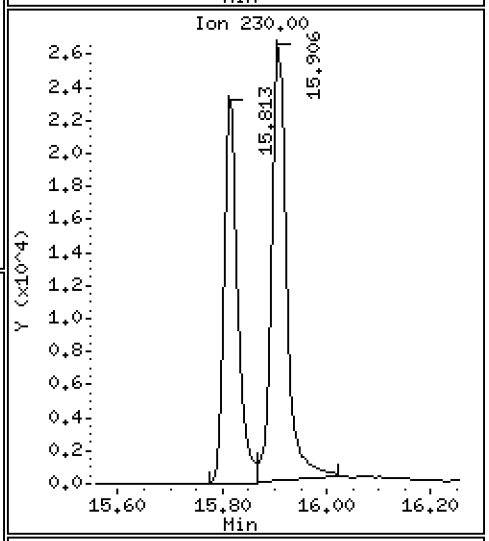


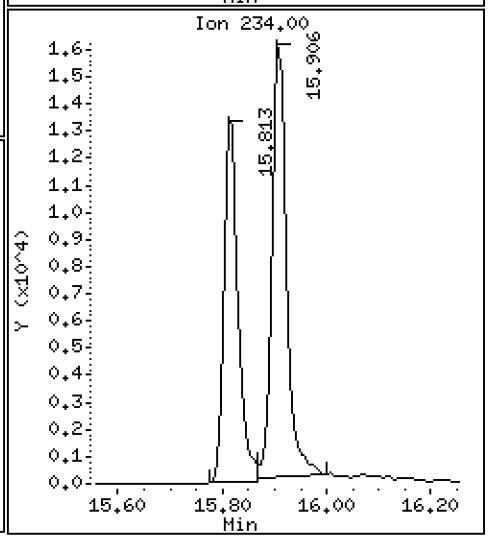












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010613.D
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Inj Date : 06-JAN-2023 18:50 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-BSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 11-Jan-2023 14:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 13
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	251754	5.80127	5.801
$	2 Phenol-d5	99	8.410	8.403	(0.931)	325118	6.06224	6.062
	3 Phenol	94	8.434	8.426	(0.933)	210238	3.44998	3.450
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	283504	6.29438	6.294
	4 Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	181225	4.31707	4.317
	6 2-Chlorophenol	128	8.712	8.704	(0.964)	178615	3.61088	3.611
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	196646	3.74898	3.749
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	135456	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	191406	3.85183	3.852
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	120657	3.91942	3.919
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	189217	3.88265	3.883
	11 Benzyl alcohol	108	9.316	9.308	(1.031)	75553	2.78498	2.785(M)
	14 2,2'-oxybis(1-Chloropropane)	121	9.619	9.611	(1.064)	62752	4.44131	4.441
	13 2-Methylphenol	108	9.549	9.541	(1.057)	166644	3.76333	3.763
	17 Hexachloroethane	117	10.023	10.022	(1.109)	76955	4.21065	4.211
	16 N-Nitroso-di-n-propylamine	70	9.875	9.867	(1.093)	120512	4.46760	4.468
	15 4-Methylphenol	108	9.829	9.813	(1.088)	155259	3.32369	3.324
$	18 Nitrobenzene-d5	82	10.139	10.131	(0.878)	201545	4.73377	4.734
	19 Nitrobenzene	77	10.170	10.170	(0.881)	190378	4.50239	4.502
	20 Isophorone	82	10.628	10.620	(0.921)	365556	6.78327	6.783
	21 2-Nitrophenol	139	10.806	10.806	(0.936)	113689	4.24382	4.244
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	337922	7.65724	7.657
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	203587	4.85616	4.856
	24 Benzoic acid	105	11.070	11.062	(0.959)	450807	16.1778	16.18
	25 2,4-Dichlorophenol	162	11.271	11.263	(0.977)	491040	13.2001	13.20
	26 1,2,4-Trichlorobenzene	180	11.457	11.449	(0.993)	181026	4.50056	4.501
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	504192	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	512324	4.12900	4.129
	29 4-Chloroaniline	127	11.712	11.704	(1.015)	399641	7.81006	7.810
	30 Hexachlorobutadiene	225	11.951	11.951	(1.035)	100308	5.02621	5.026
	31 4-Chloro-3-methylphenol	107	12.694	12.679	(1.100)	543142	15.4721	15.47
	32 2-Methylnaphthalene	142	12.988	12.981	(1.125)	363430	3.99304	3.993
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	181300	9.97202	9.972

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.615	13.607	(0.897)	342752	17.0739	17.07
35	2,4,5-Trichlorophenol	196	13.693	13.685	(0.903)	371123	16.0183	16.02
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	387357	4.79015	4.790
37	2-Chloronaphthalene	162	13.987	13.979	(0.922)	315875	4.59165	4.592
38	2-Nitroaniline	65	14.242	14.234	(0.939)	382880	21.1697	21.17
39	Dimethylphthalate	163	14.676	14.668	(0.967)	361164	5.32474	5.325
40	Acenaphthylene	152	14.854	14.853	(0.979)	489668	4.66818	4.668
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	290421	18.9728	18.97
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	240512	4.00000	
43	3-Nitroaniline	138	15.094	15.093	(0.995)	240242	12.9129	12.91
44	Acenaphthene	153	15.240	15.232	(1.005)	299596	4.60496	4.605
45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	246769	18.1947	18.19
46	Dibenzofuran	168	15.565	15.565	(1.026)	427072	4.37738	4.377
47	4-Nitrophenol	109	15.434	15.426	(1.017)	146359	15.8359	15.84
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	373262	17.7728	17.77
50	Diethylphthalate	149	16.137	16.137	(1.064)	488226	5.29573	5.296
49	Fluorene	166	16.284	16.276	(1.073)	478093	4.60639	4.606
51	4-Chlorophenyl-phenylether	204	16.276	16.268	(1.073)	217331	4.27708	4.277
52	4-Nitroaniline	138	16.369	16.361	(1.079)	293554	12.7186	12.72
53	4,6-Dinitro-2-methylphenol	198	16.469	16.461	(0.904)	475467	25.1221	25.12
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	278050	3.80762	3.808
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	79036	6.76507	6.765
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.948)	122745	4.43898	4.439
57	Hexachlorobenzene	284	17.596	17.595	(0.966)	125275	4.12840	4.128
58	Pentachlorophenol	266	17.960	17.952	(0.986)	107978	7.89507	7.895
* 59	Phenanthrene-d10	188	18.223	18.215	(1.000)	425561	4.00000	
60	Phenanthrene	178	18.269	18.261	(1.003)	490446	4.42017	4.420
61	Anthracene	178	18.362	18.354	(1.008)	400303	3.77914	3.779
62	Carbazole	167	18.687	18.687	(1.025)	420855	4.10991	4.110
63	Di-n-butylphthalate	149	19.491	19.484	(1.070)	631882	5.23502	5.235
64	Fluoranthene	202	20.660	20.652	(0.888)	538168	5.47560	5.476
65	Pyrene	202	21.085	21.077	(0.906)	561970	5.43817	5.438
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	392476	5.35635	5.356
67	Butylbenzylphthalate	149	22.293	22.285	(0.958)	270586	6.77396	6.774
68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	447410	4.83852	4.839
* 69	Chrysene-d12	240	23.276	23.268	(1.000)	305246	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	375866	13.2783	13.28
71	Chrysene	228	23.323	23.315	(1.002)	445920	5.10532	5.105
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	386072	5.42184	5.422
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	641167	4.00000	
73	Di-n-octylphthalate	149	24.314	24.306	(1.001)	724032	4.70434	4.704
74	Benzo(b)fluoranthene	252	25.134	25.126	(0.970)	492712	4.77601	4.776
75	Benzo(k)fluoranthene	252	25.181	25.173	(0.972)	482901	4.59905	4.599
76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	395928	4.61669	4.617
* 77	Perylene-d12	264	25.901	25.901	(1.000)	328264	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.567	28.567	(1.103)	480271	4.92635	4.926
79	Dibenzo(a,h)anthracene	278	28.582	28.574	(1.104)	405166	4.89067	4.891
80	Benzo(g,h,i)perylene	276	29.359	29.351	(1.134)	390766	4.78470	4.785
90	N-Nitrosodimethylamine	74	4.626	4.749	(0.512)	292639	9.79141	9.791
91	Aniline	93	8.488	8.487	(0.939)	287433	4.84423	4.844
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.672	4.633	(0.517)	20763	0.21863	0.2186
105	1-methylnaphthalene	142	13.213	13.205	(1.145)	353093	4.03763	4.038
111	Azobenzene (1,2-DP-Hydrazine)	77	16.600	16.592	(1.094)	491537	5.50338	5.503

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.173	(0.970)	930326	9.32774	9.328
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	62746	3.59834	3.598

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010613.D
Lab Smp Id: BKL0585-BSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	135456	1.00
27 Naphthalene-d8	499117	249559	998234	504192	1.02
42 Acenaphthene-d10	260320	130160	520640	240512	-7.61
59 Phenanthrene-d10	432406	216203	864812	425561	-1.58
69 Chrysene-d12	317887	158944	635774	305246	-3.98
134 Di-n-octylphthala	664061	332031	1328122	641167	-3.45
77 Perylene-d12	313716	156858	627432	328264	4.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010613.D

Lab ID: BKL0585-BSD1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 18:50

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.512	0.000	0.5119	N-Nitrosodimethylamine

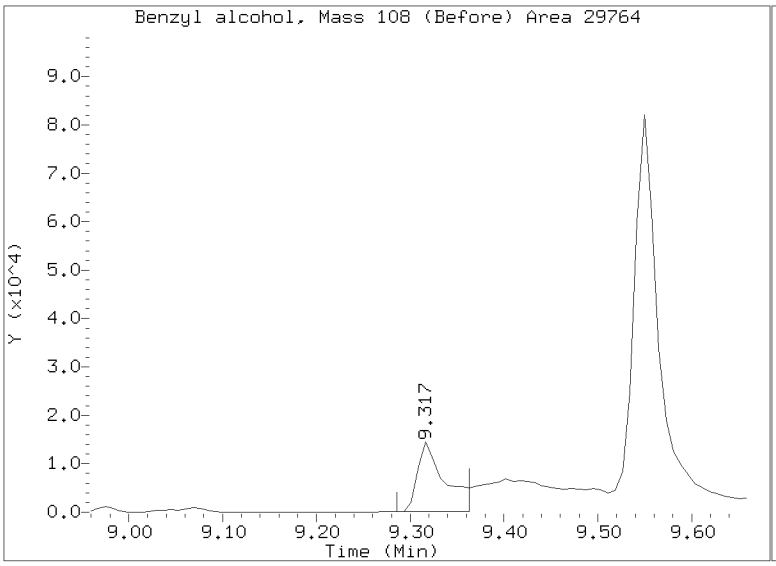
RRT check based on Ccal File: NT1423010602.D

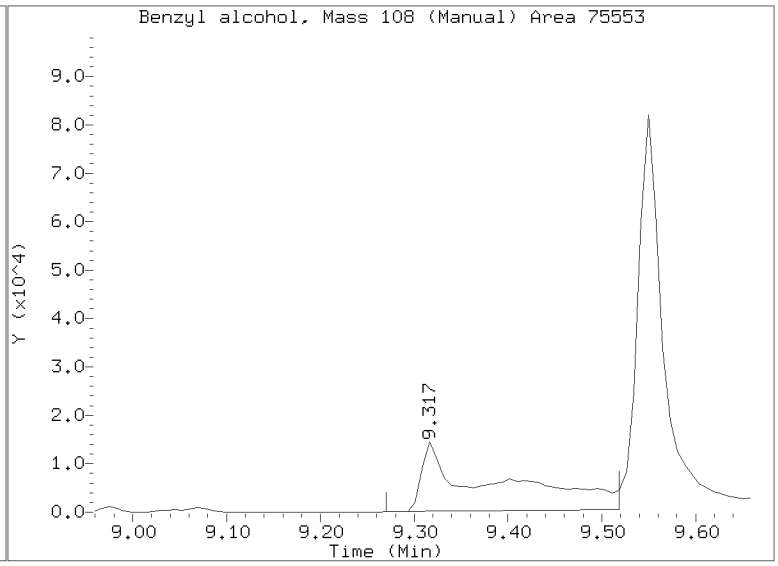
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010613.D
Injection Date: 06-JAN-2023 18:50
Lab ID:BKL0585-BSD1 Client ID:
Report Date: 01/11/2023 14:46





MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 19:48
Batch:	BKL0489	Laboratory ID:	BKL0489-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	15.33 g / 1 mL	Source Sample:	LDW22-IT810B-FD

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Butylbenzylphthalate	500	ND	U	638		128	45 - 132

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

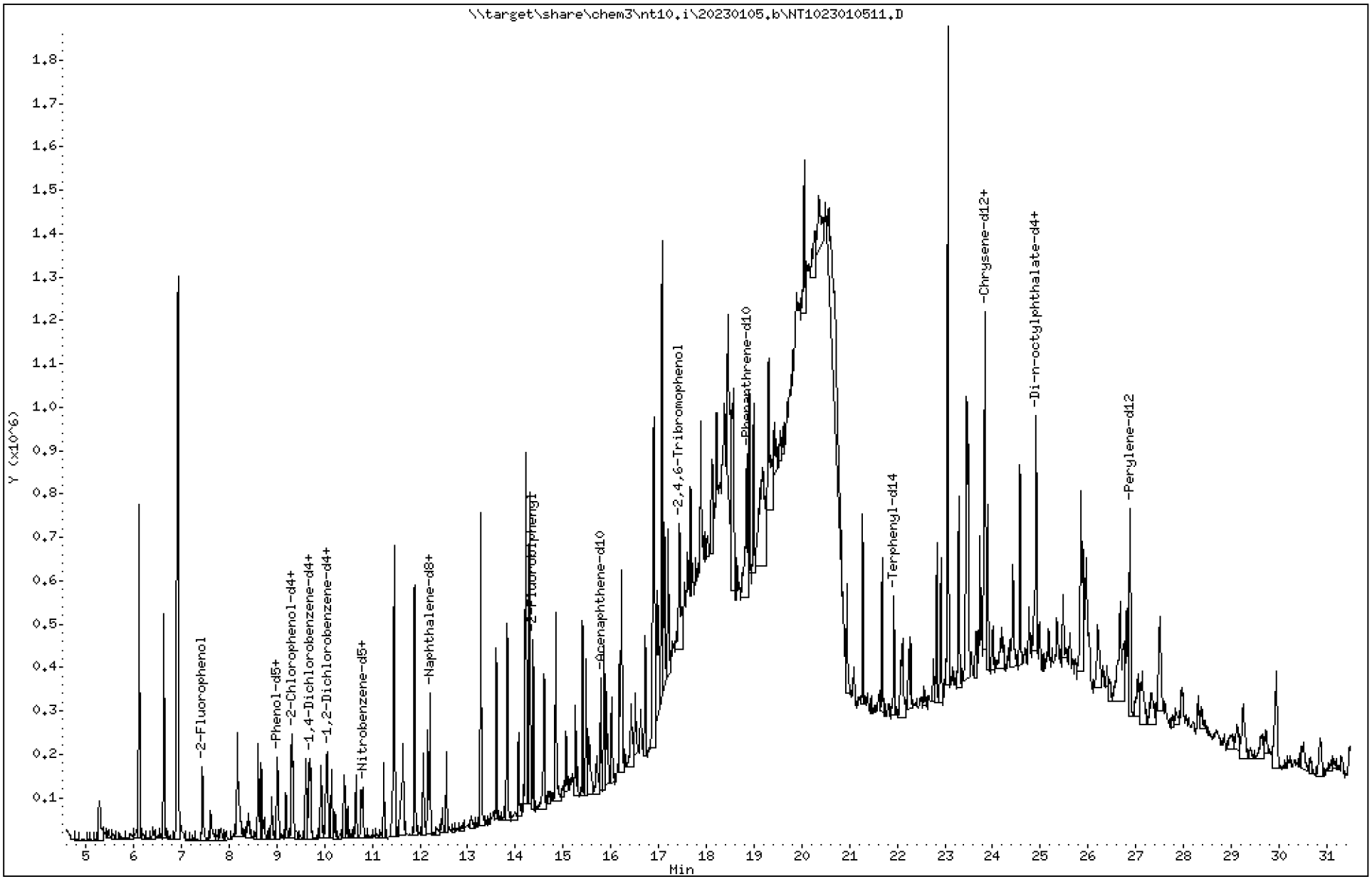
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 20:26
Batch:	BKL0489	Laboratory ID:	BKL0489-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	15.33 g / 1 mL	Source Sample:	LDW22-IT810B-FD

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Butylbenzylphthalate	500	537		107	17.2	30	45 - 132

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010511.D
Date : 05-JAN-2023 19:48
Client ID:
Sample Info: BKL0489-MS1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010511.D

Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

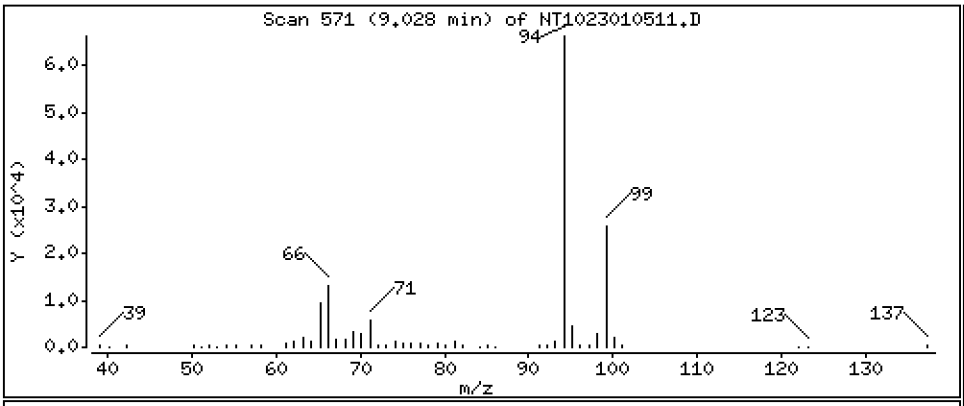
Operator: VTS

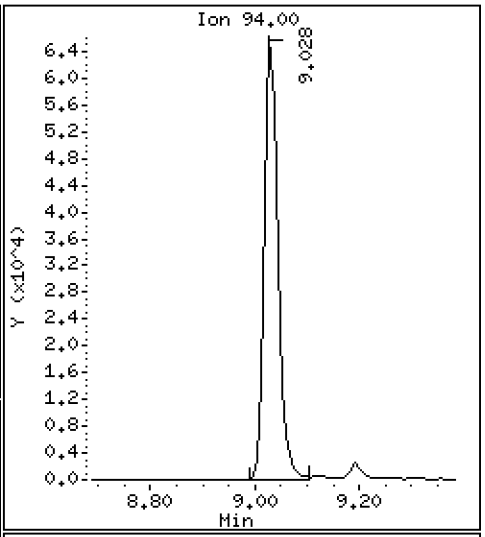
Column phase: ZB-5msi

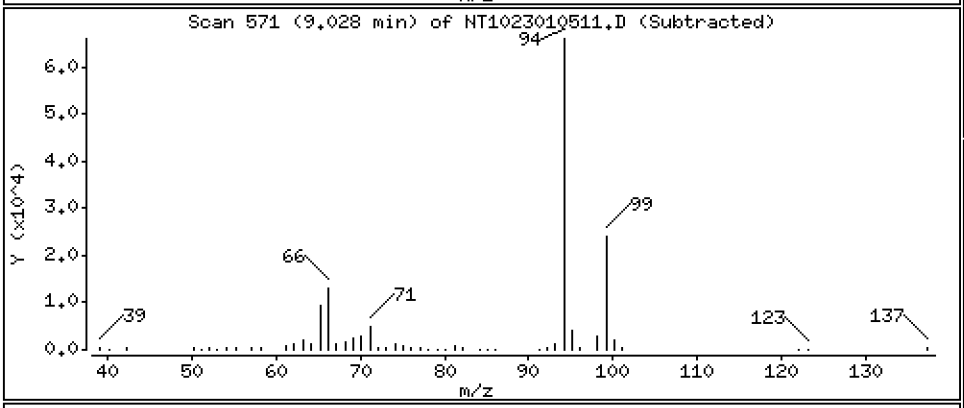
Column diameter: 0.25

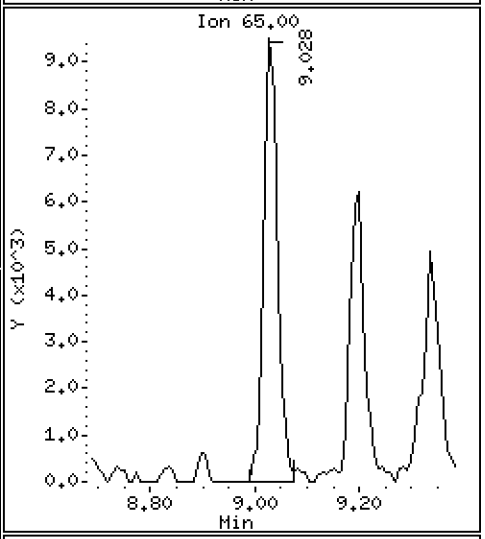
3 Phenol

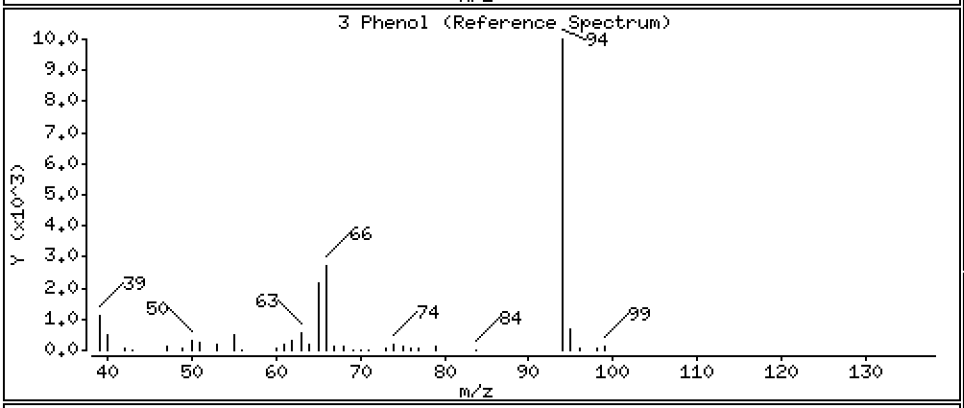
Concentration: 4.487 ug/mL

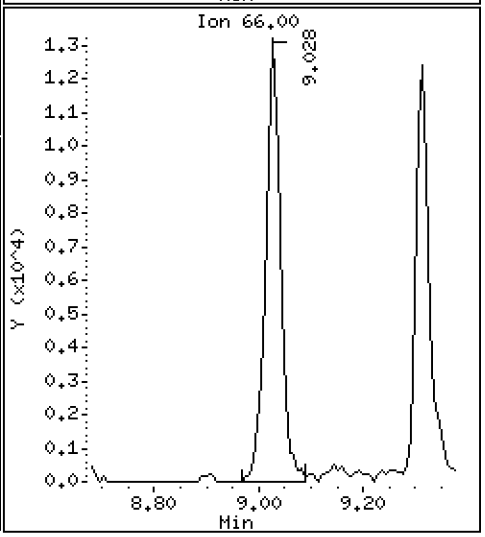


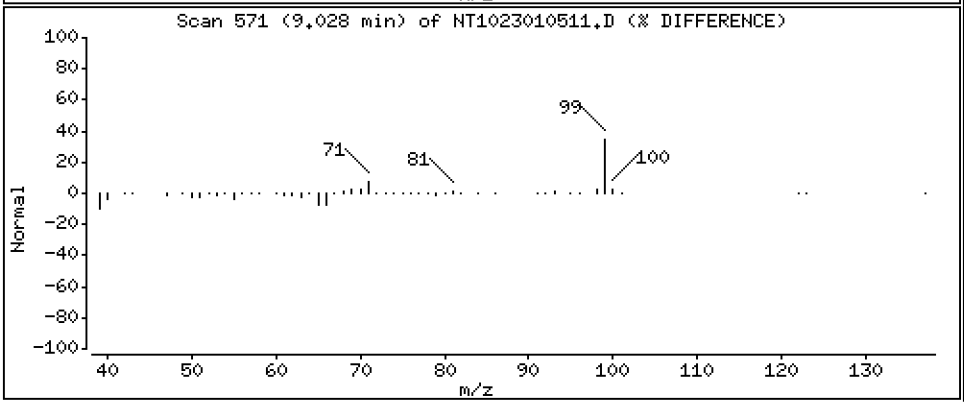












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

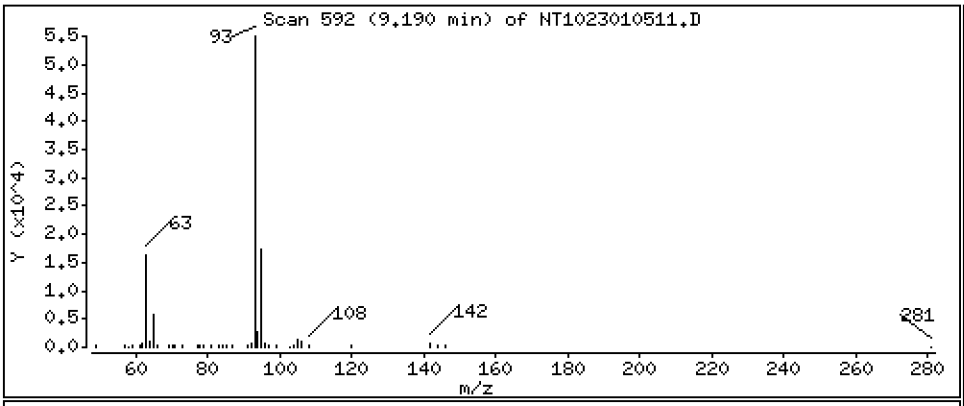
Operator: VTS

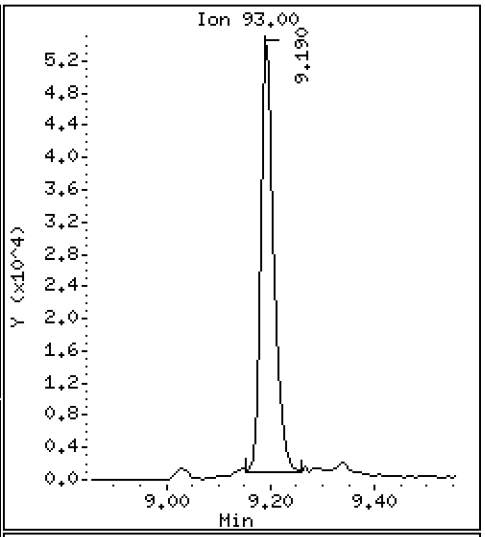
Column phase: ZB-5msi

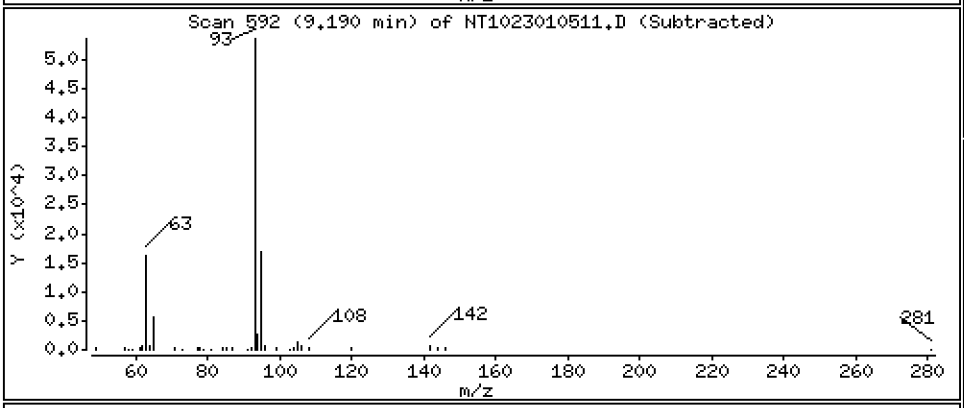
Column diameter: 0.25

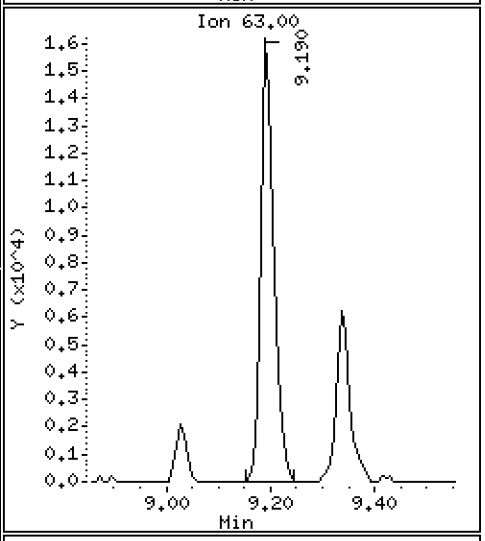
4 Bis(2-Chloroethyl)ether

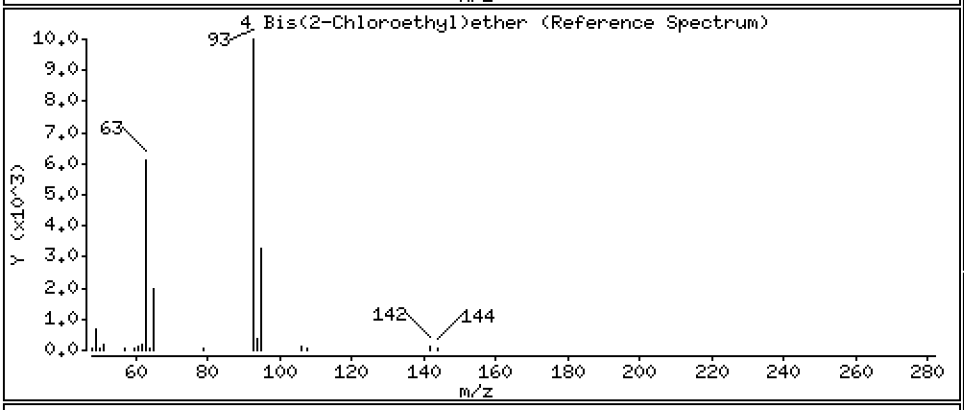
Concentration: 4.231 ug/mL

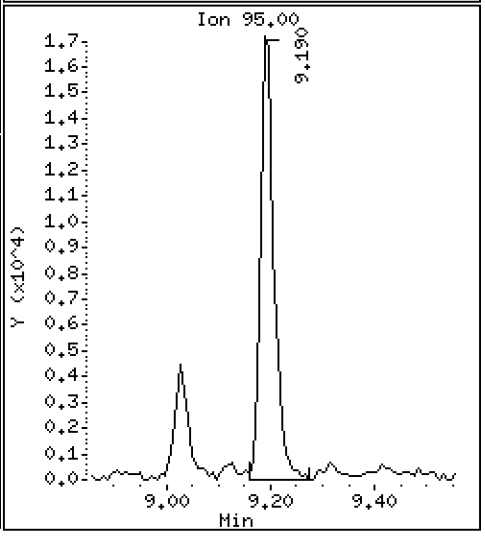


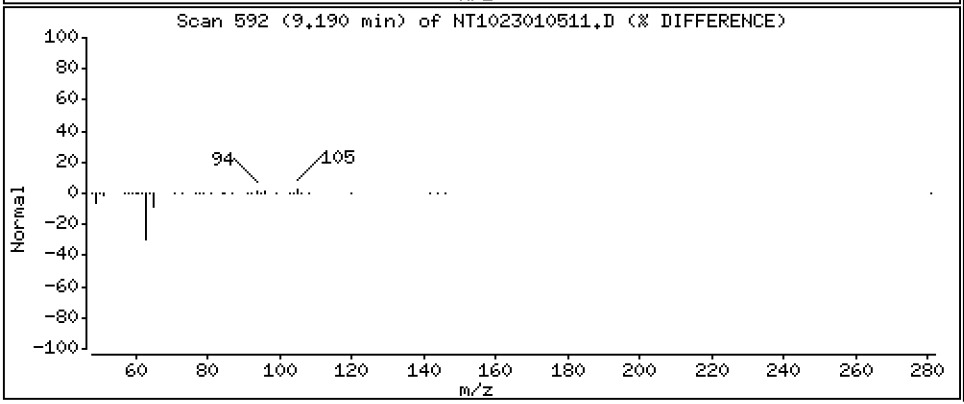












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

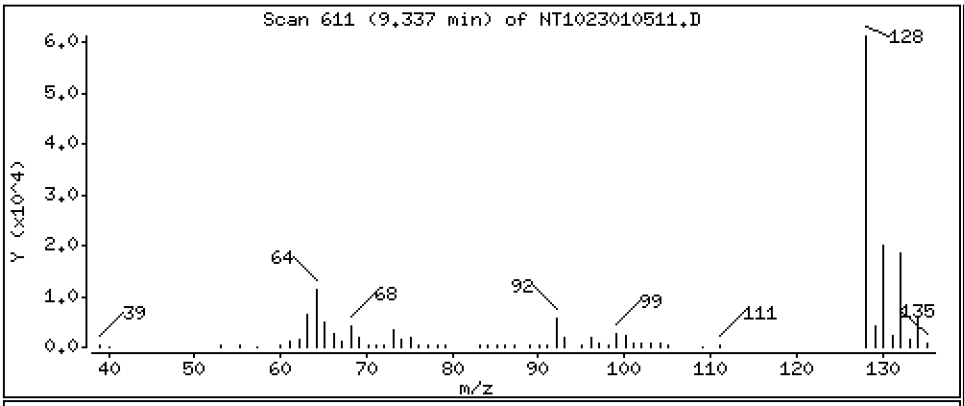
Operator: VTS

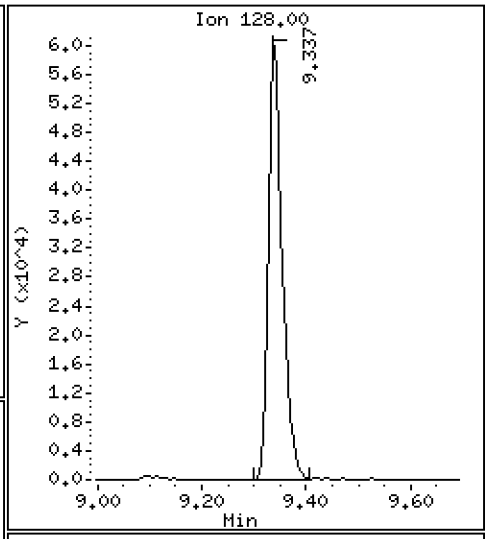
Column phase: ZB-5msi

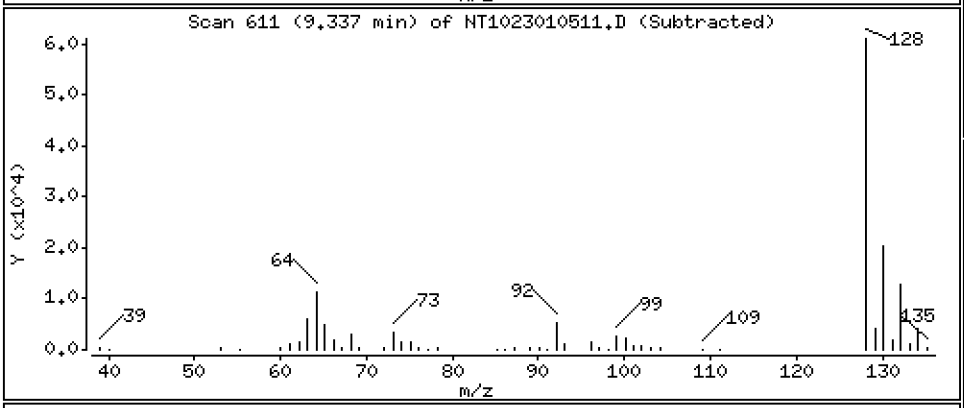
Column diameter: 0.25

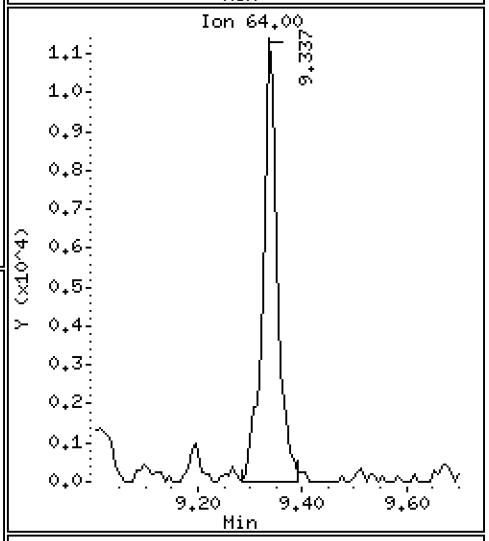
6 2-Chlorophenol

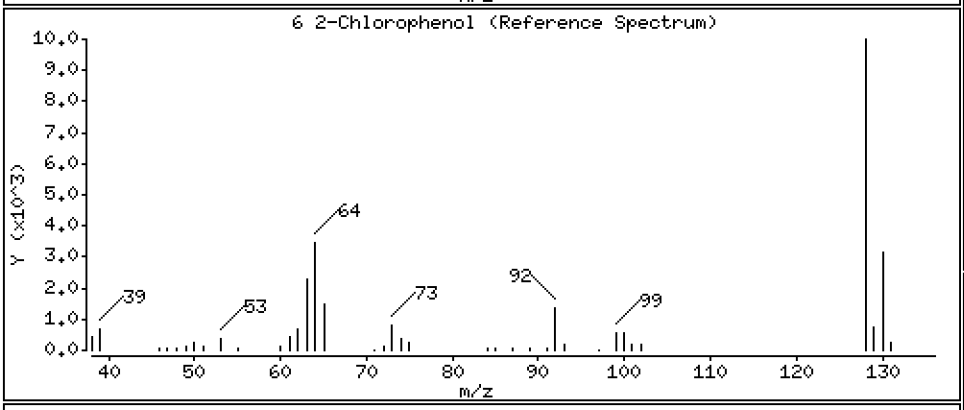
Concentration: 4.591 ug/mL

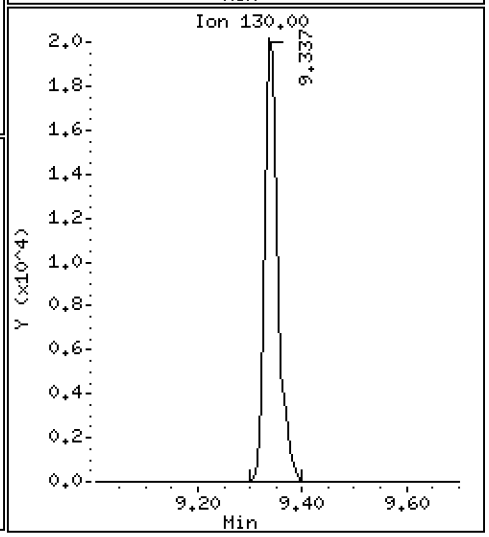


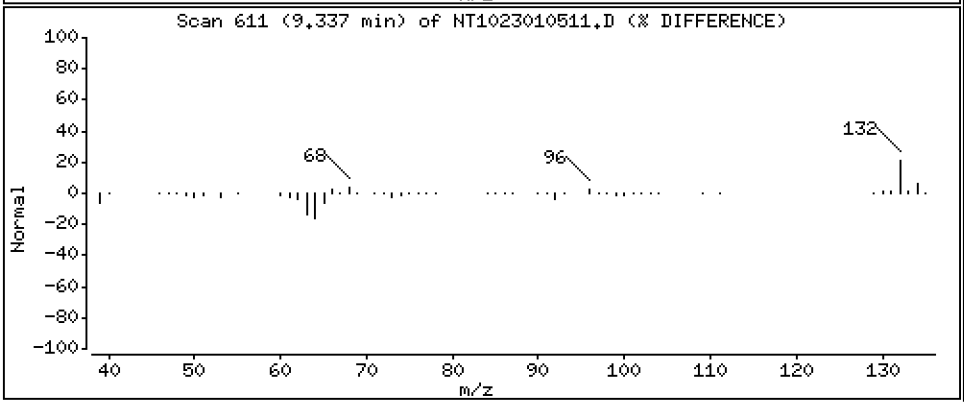












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

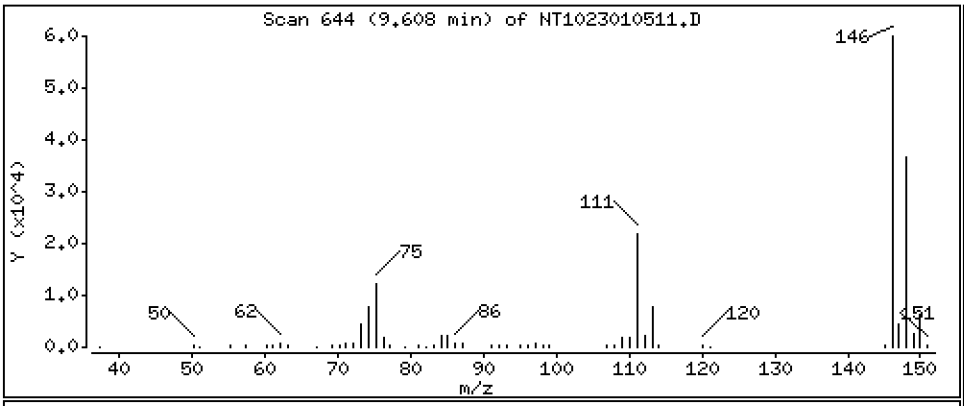
Operator: VTS

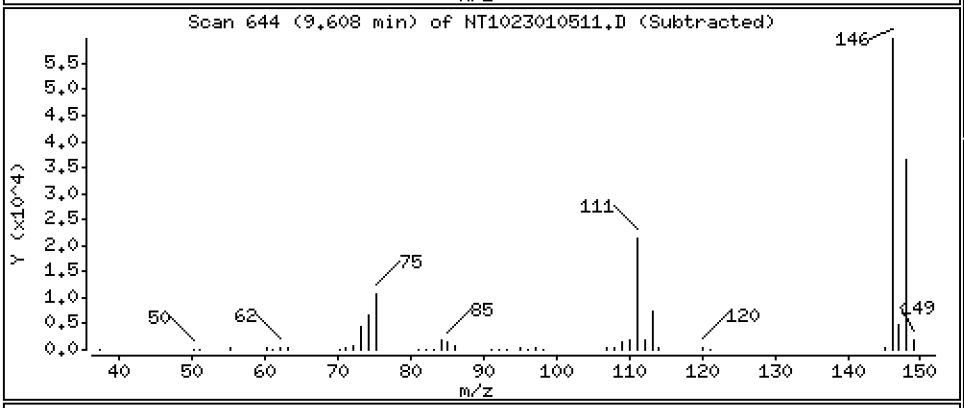
Column phase: ZB-5msi

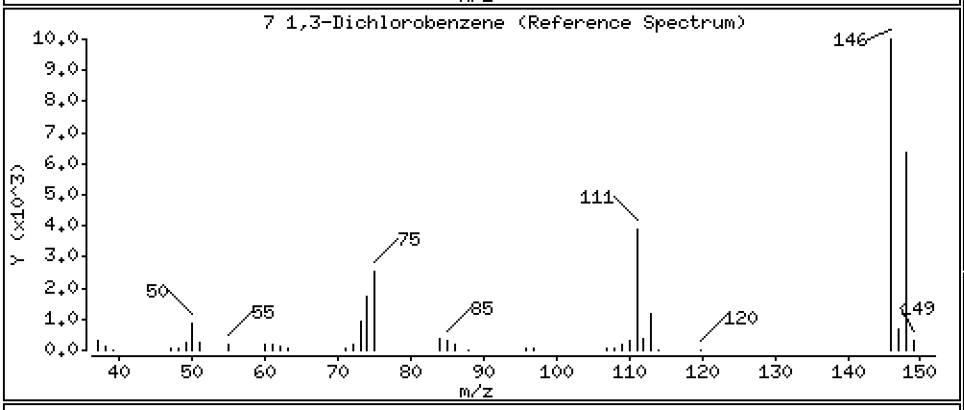
Column diameter: 0.25

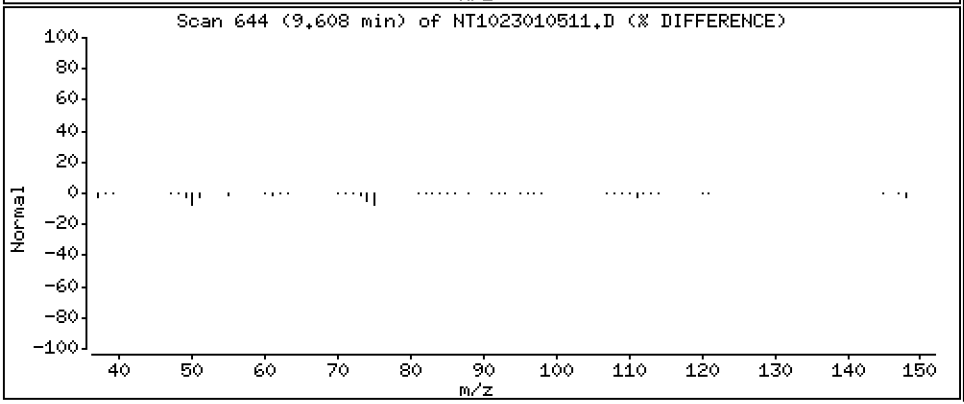
7 1,3-Dichlorobenzene

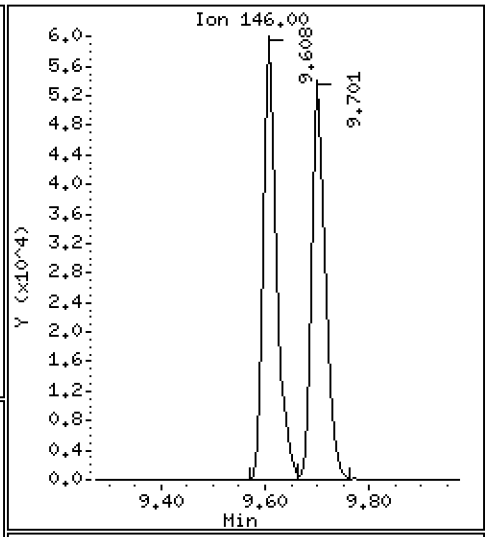
Concentration: 4.307 ug/mL

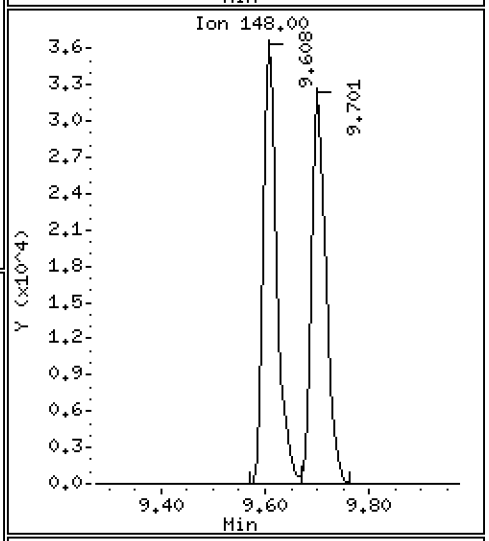


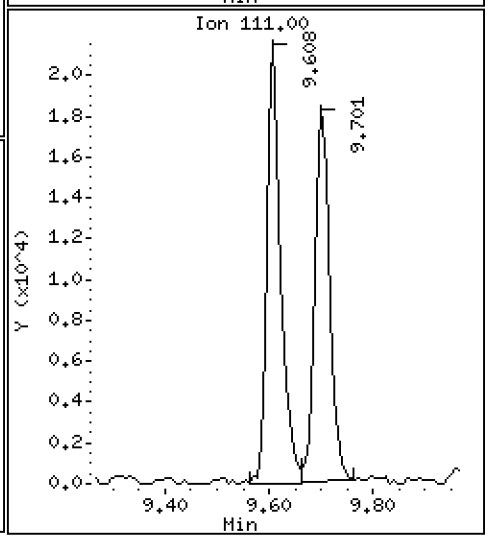












Date : 05-JAN-2023 19:48

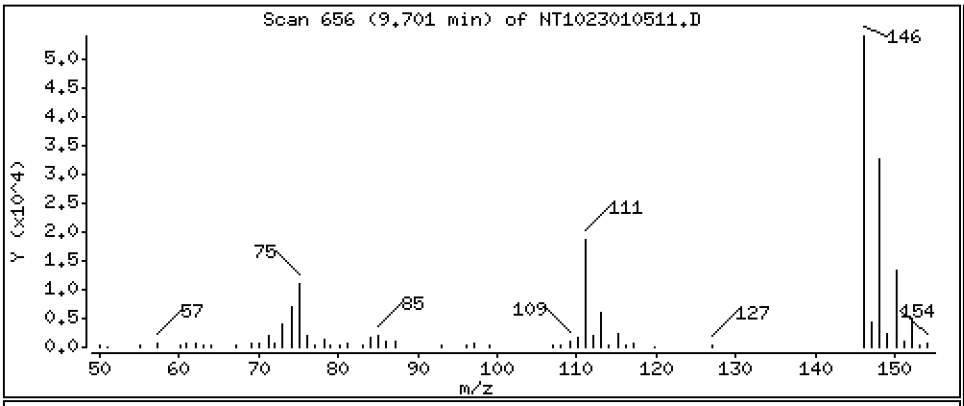
Client ID: Instrument: nt10.i

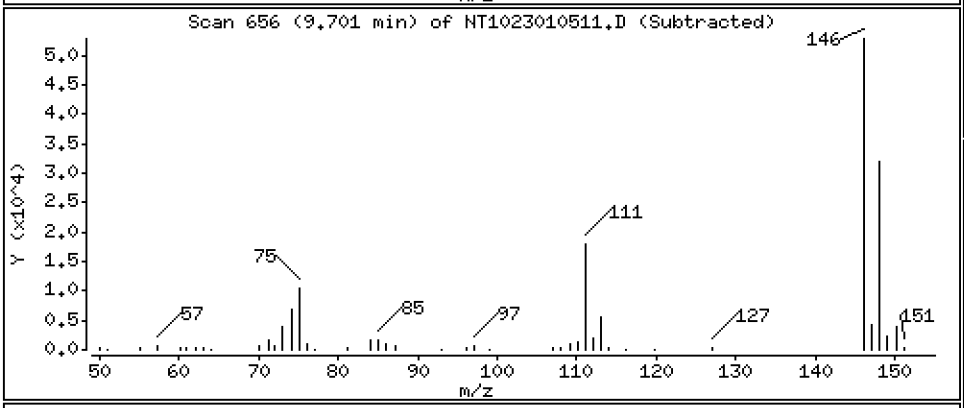
Sample Info: BKL0489-MS1

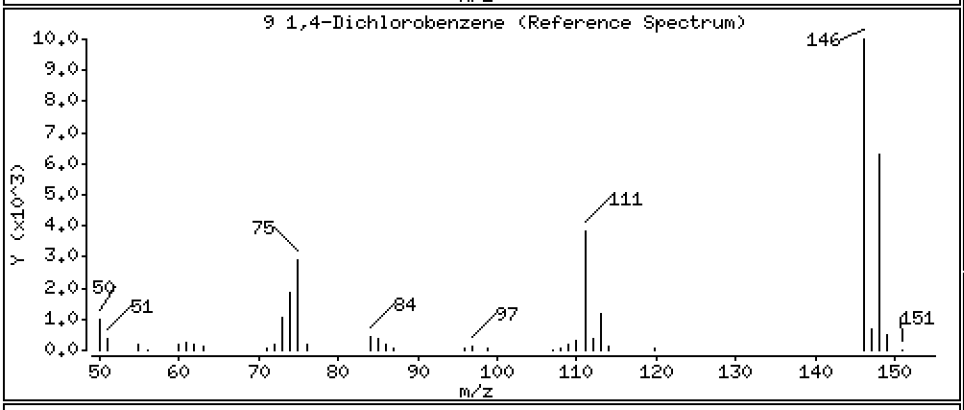
Operator: VTS

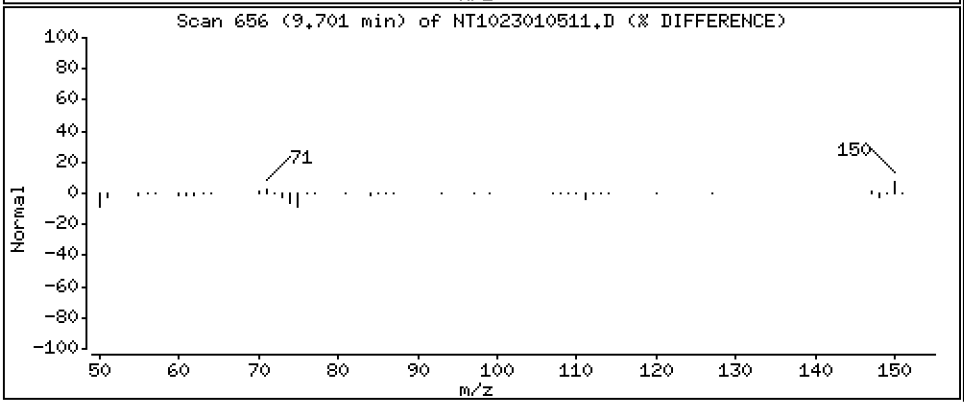
Column phase: ZB-5msi Column diameter: 0.25

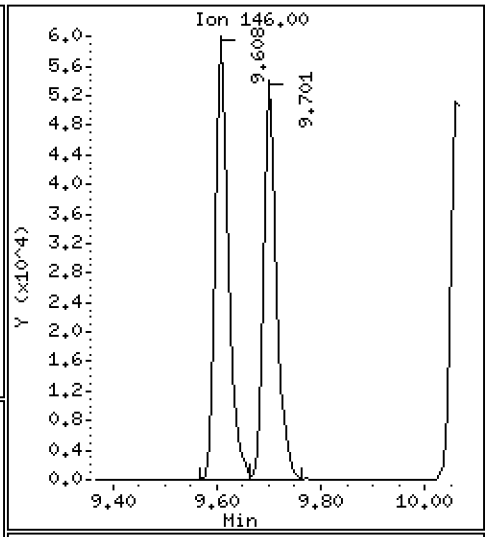
9 1,4-Dichlorobenzene Concentration: 4.355 ug/mL

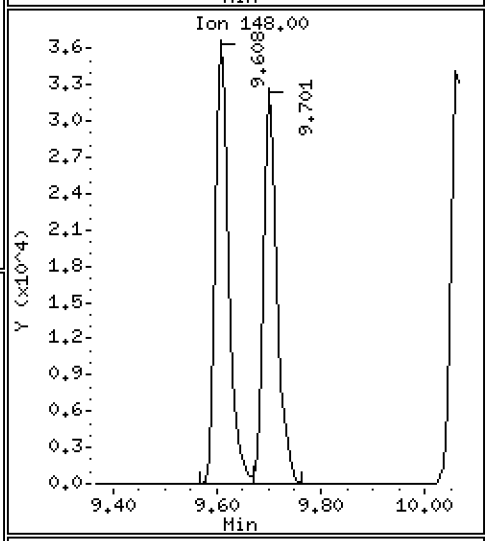


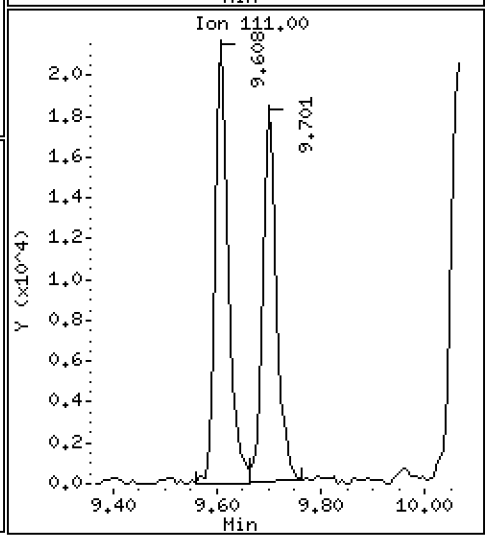












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

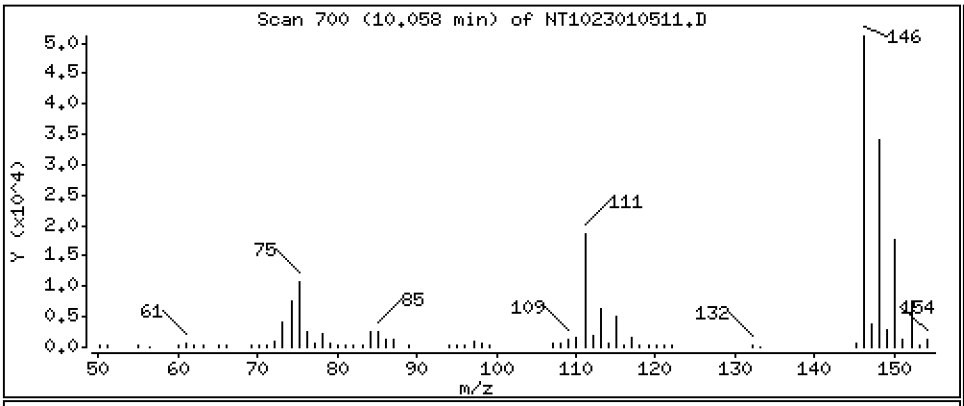
Operator: VTS

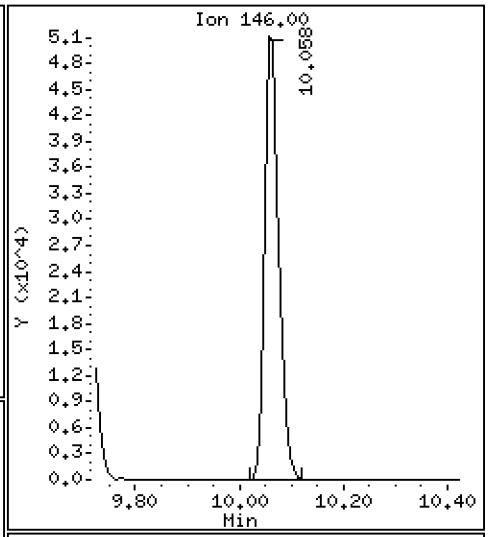
Column phase: ZB-5msi

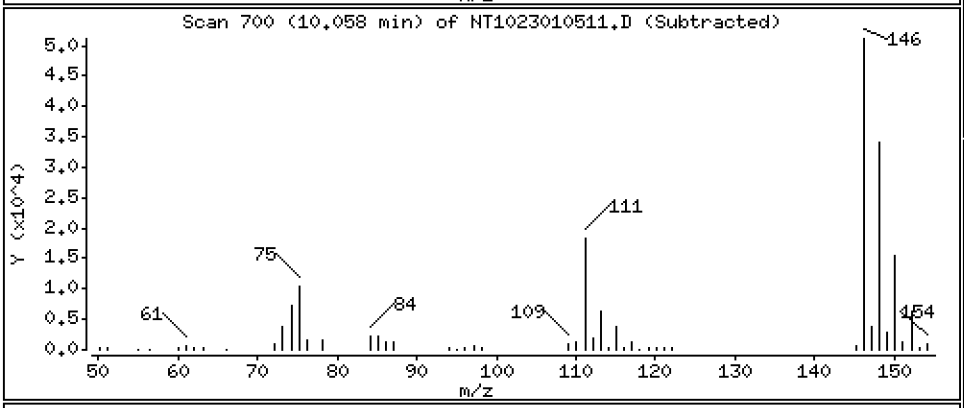
Column diameter: 0.25

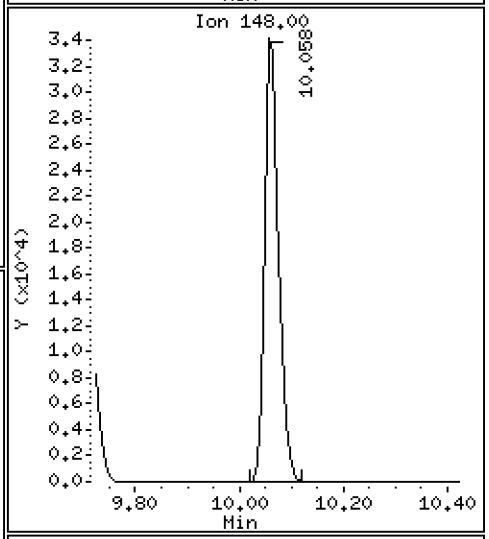
12 1,2-Dichlorobenzene

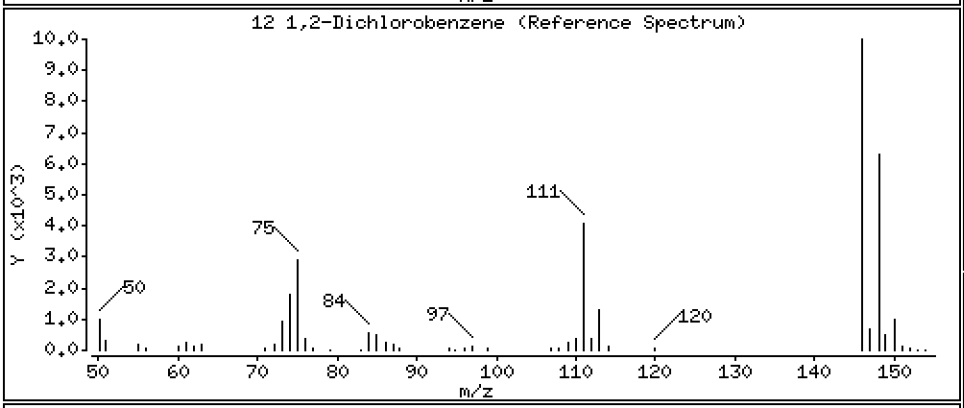
Concentration: 4.329 ug/mL

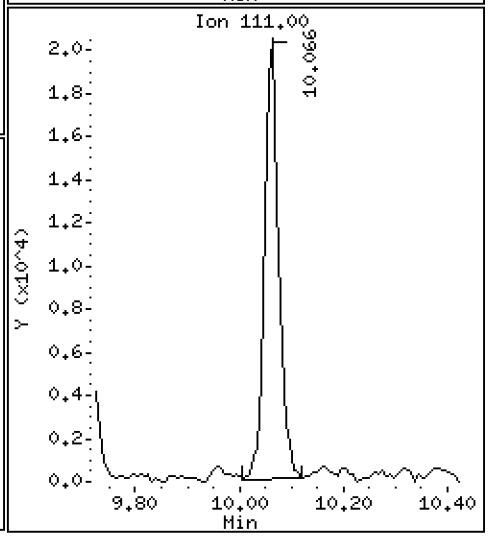


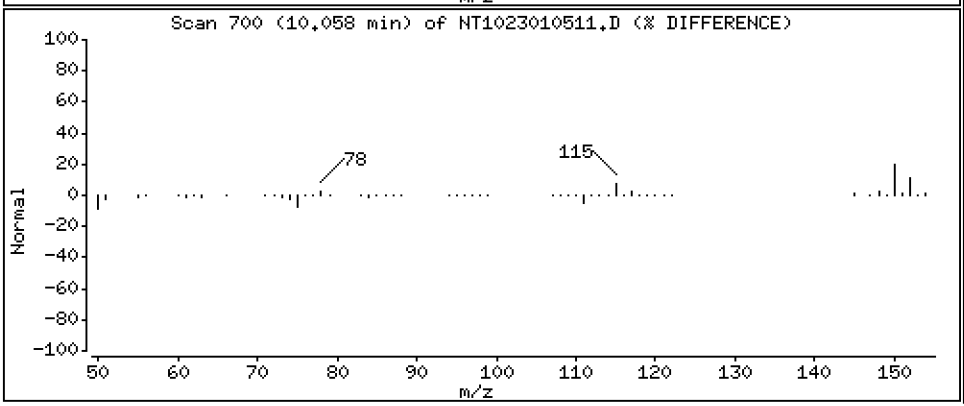












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

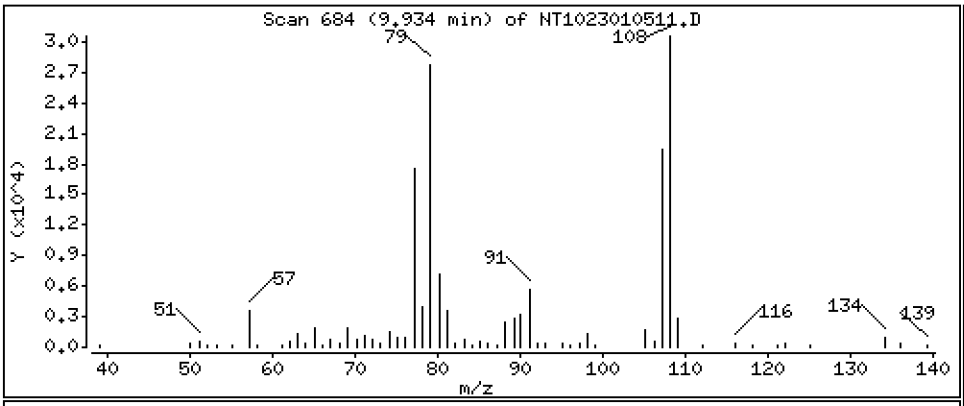
Operator: VTS

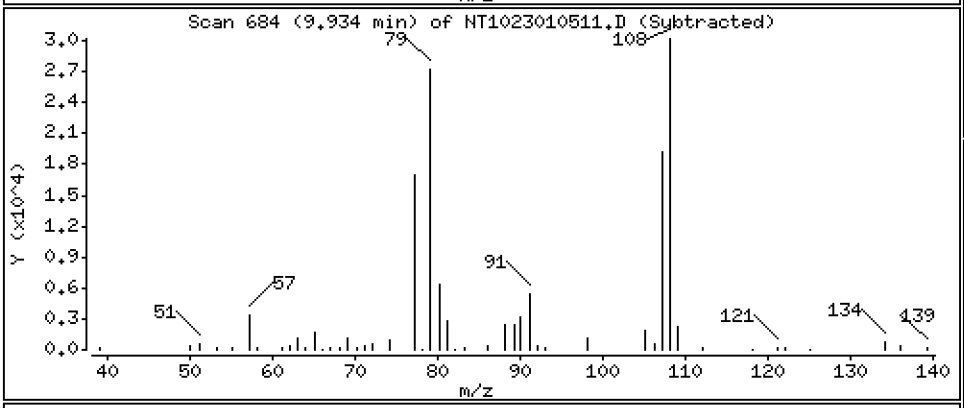
Column phase: ZB-5msi

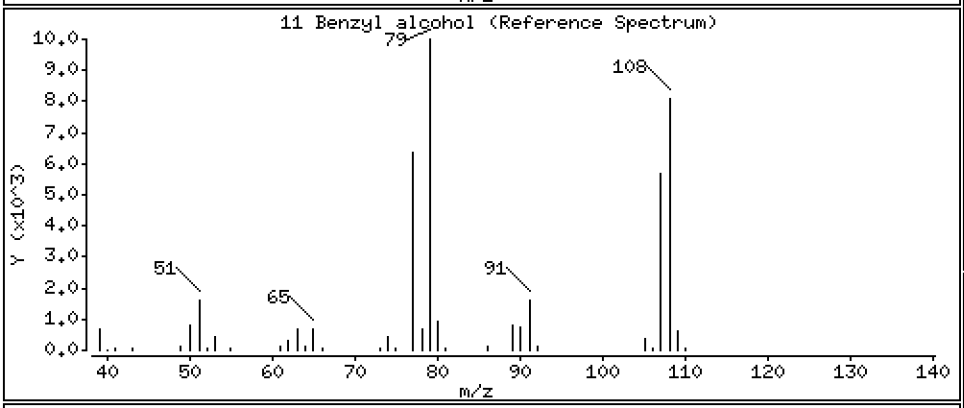
Column diameter: 0.25

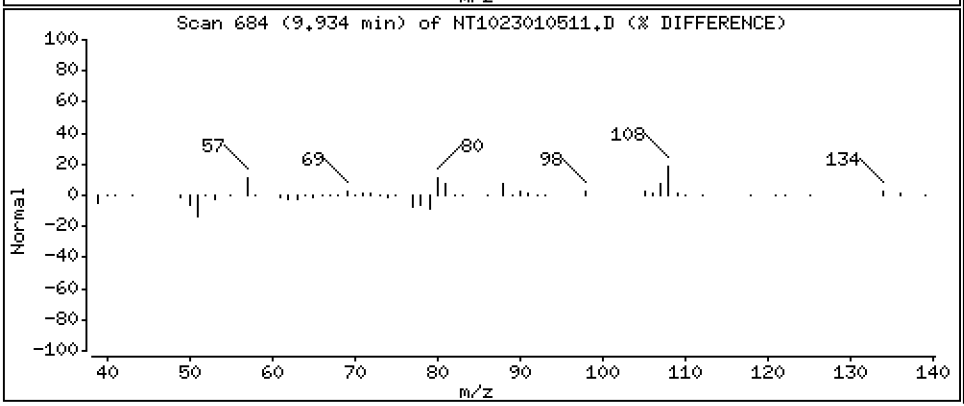
11 Benzyl alcohol

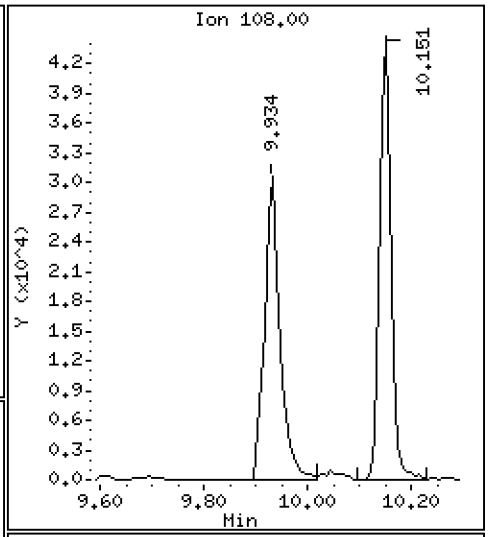
Concentration: 5.292 ug/mL

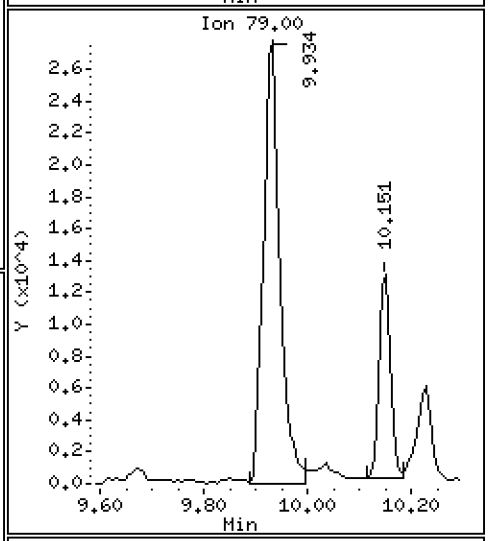


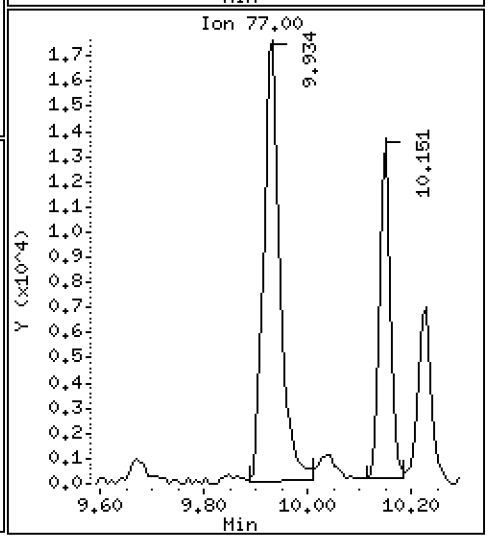












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

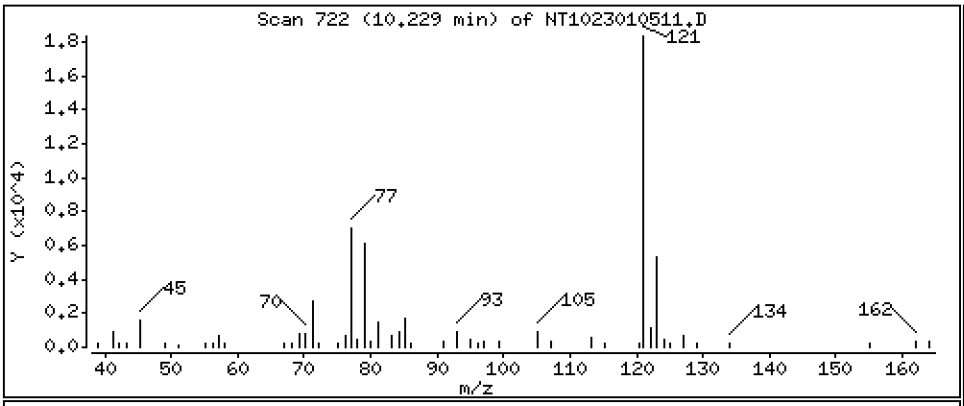
Operator: VTS

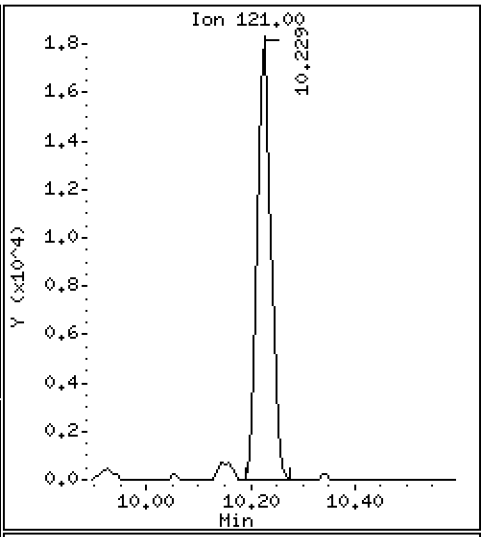
Column phase: ZB-5msi

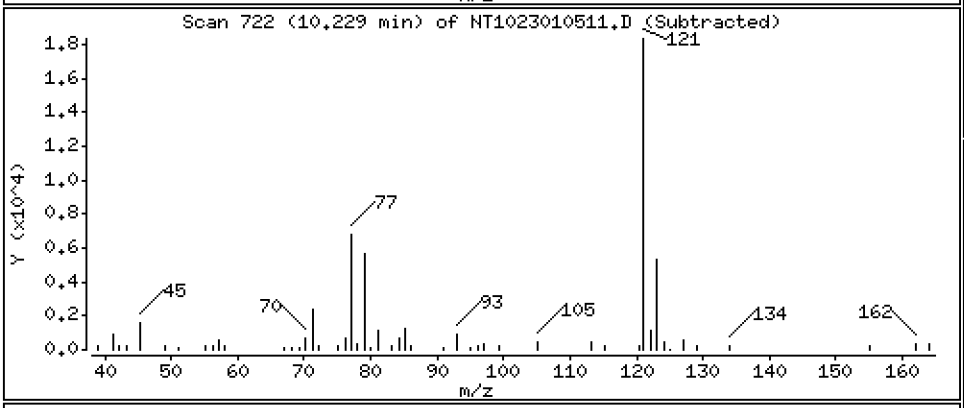
Column diameter: 0.25

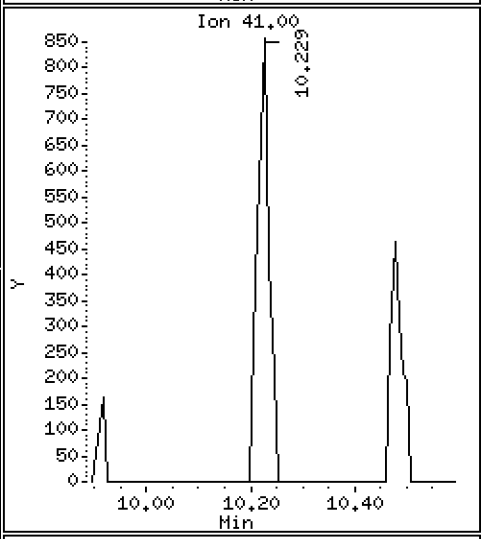
14 2,2'-oxybis(1-Chloropropane)

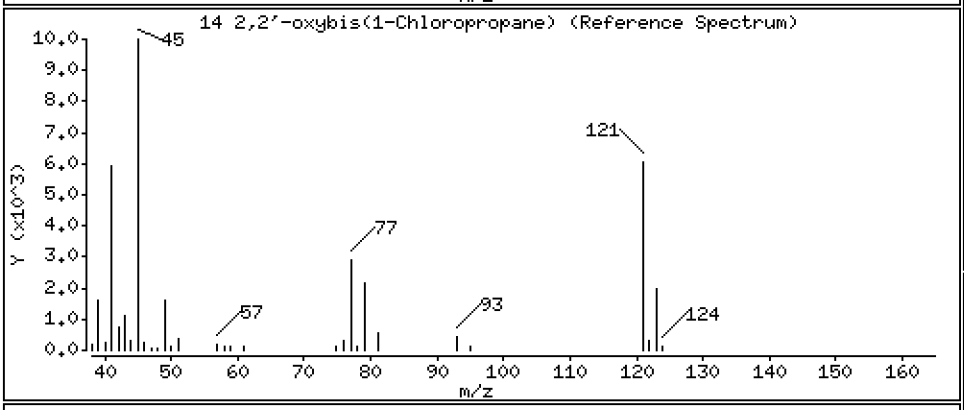
Concentration: 5.085 ug/mL

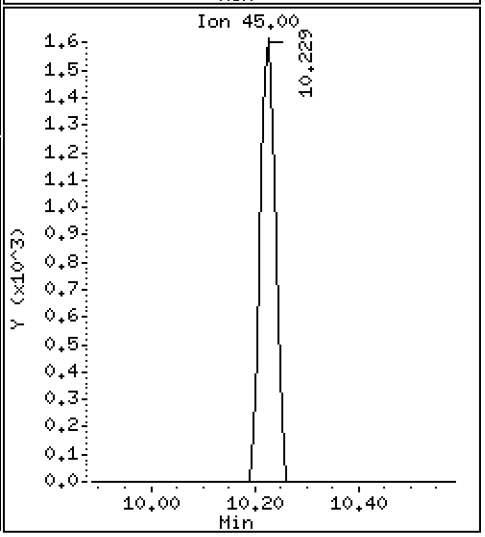


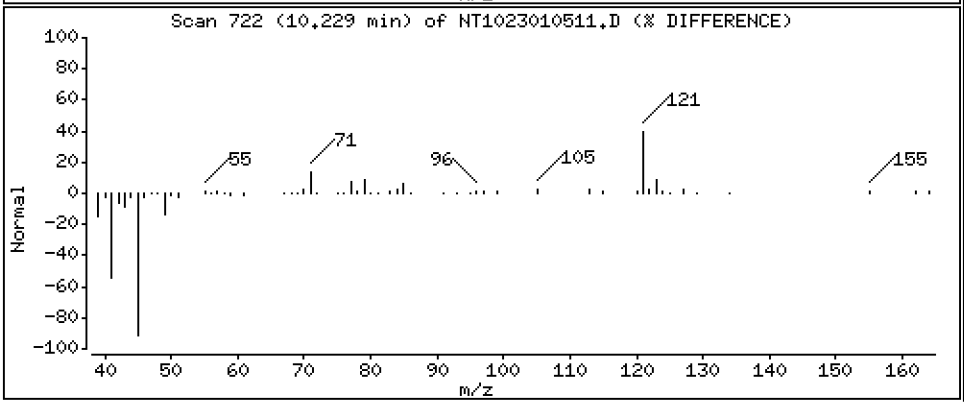












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

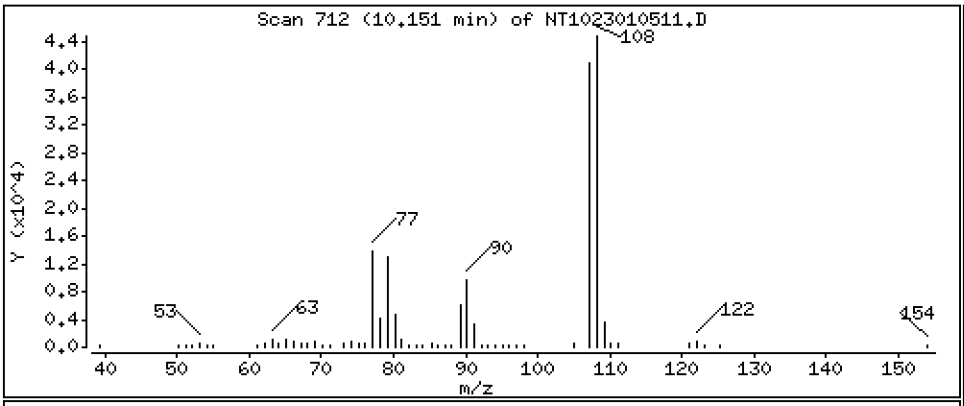
Operator: VTS

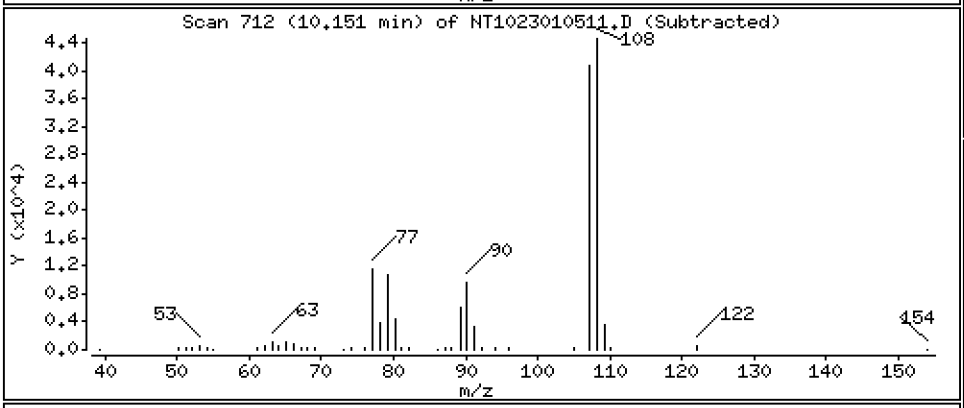
Column phase: ZB-5msi

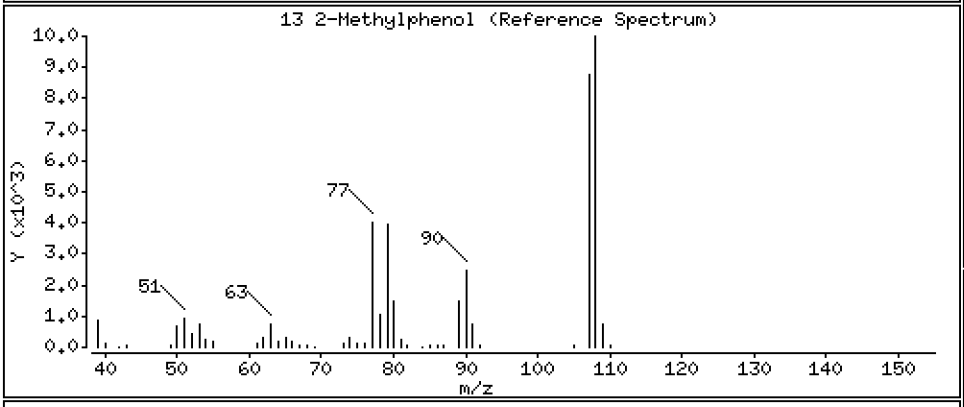
Column diameter: 0.25

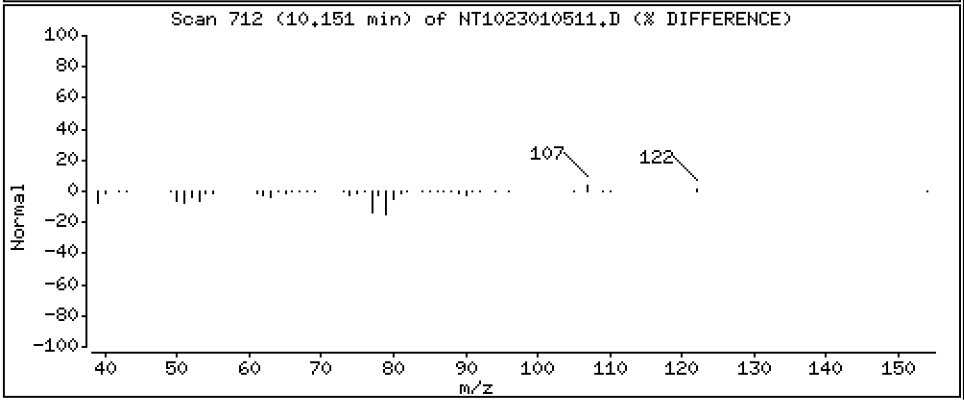
13 2-Methylphenol

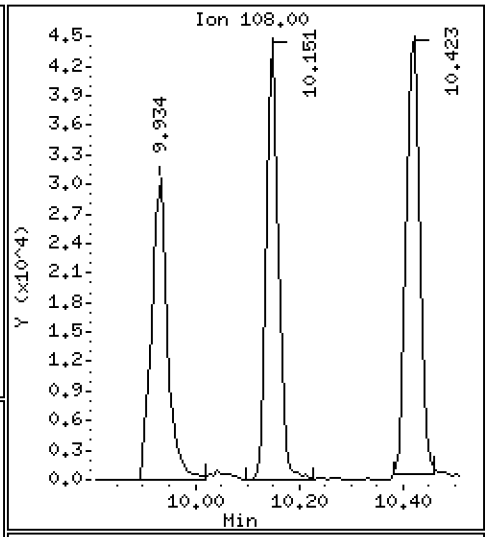
Concentration: 4.235 ug/mL

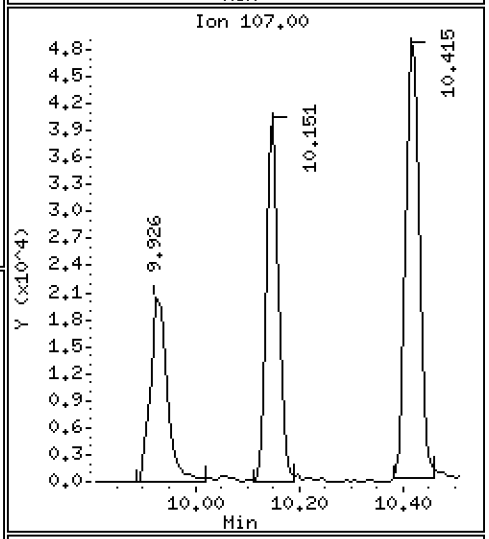


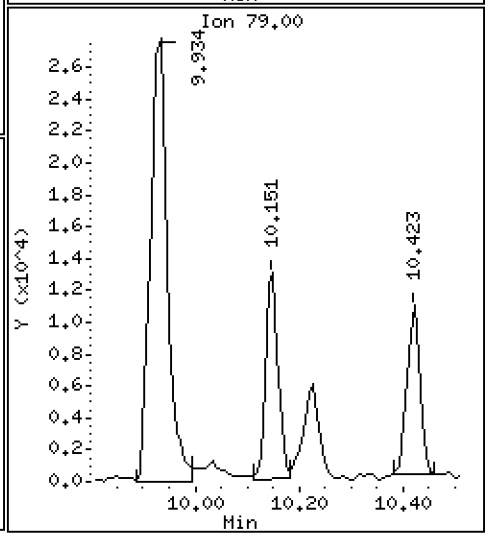












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

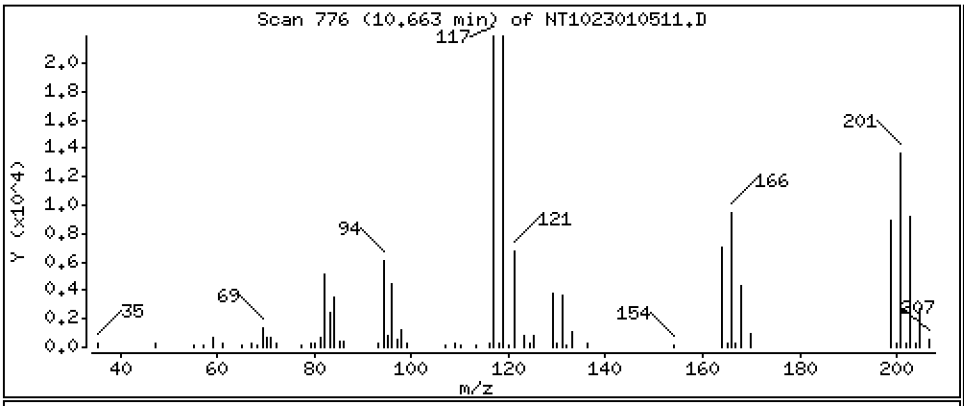
Operator: VTS

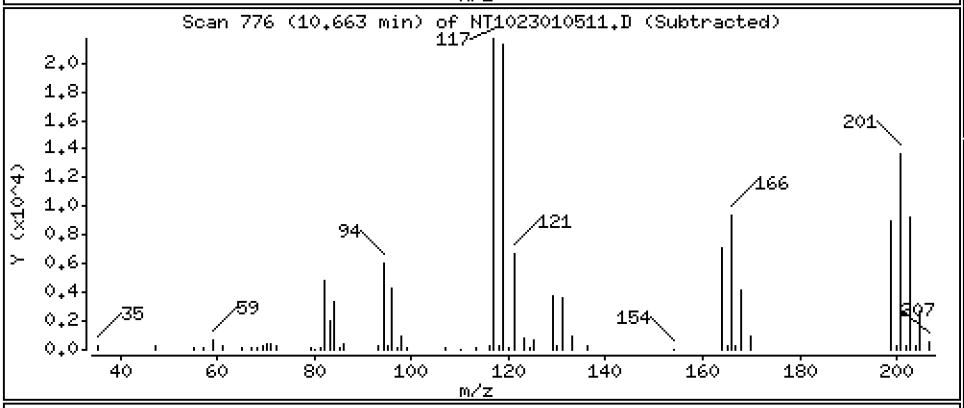
Column phase: ZB-5msi

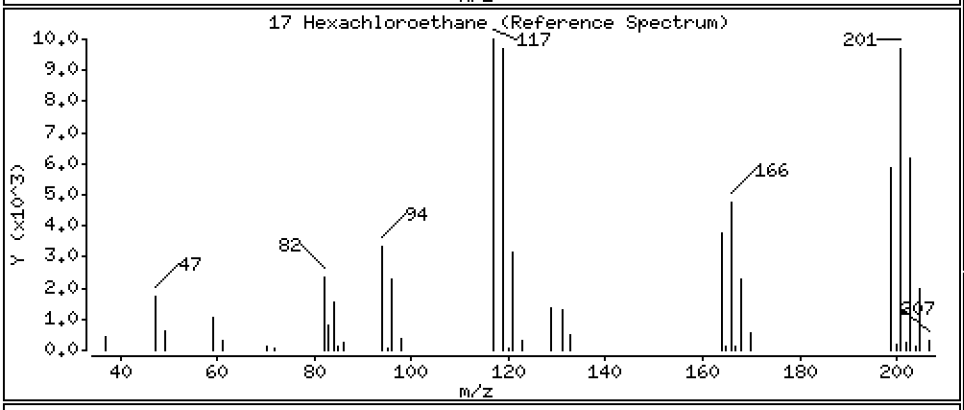
Column diameter: 0.25

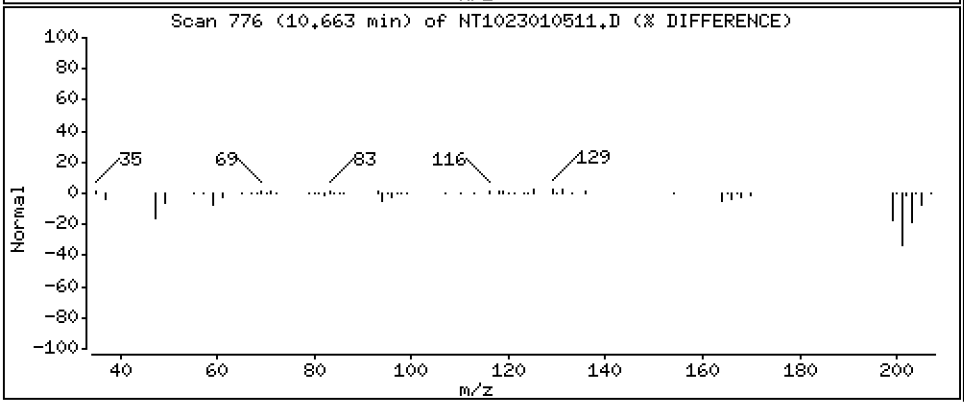
17 Hexachloroethane

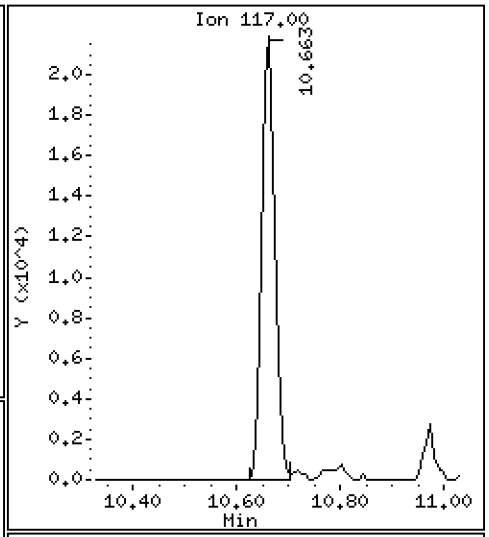
Concentration: 3.973 ug/mL

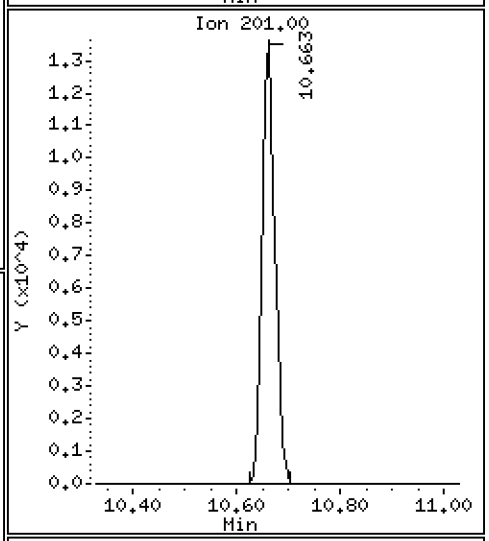


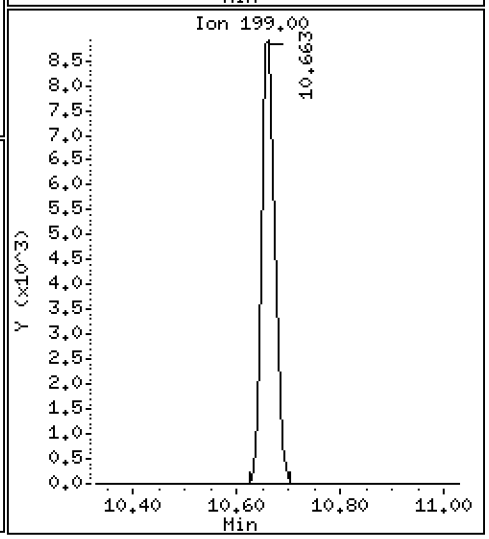












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

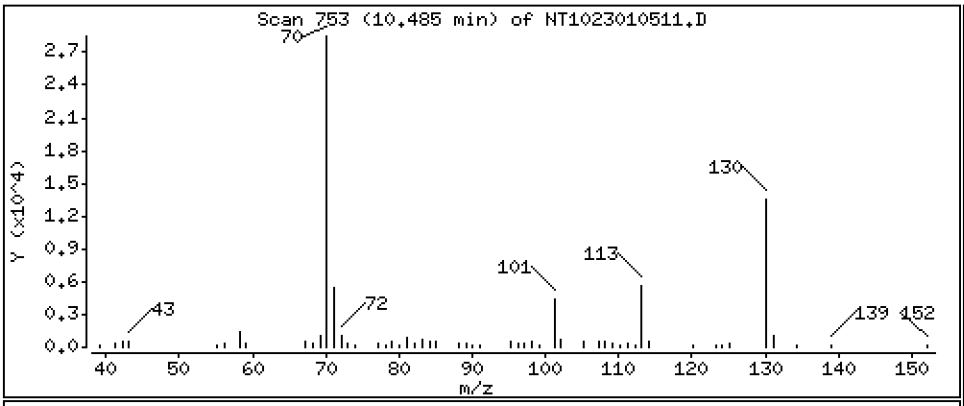
Operator: VTS

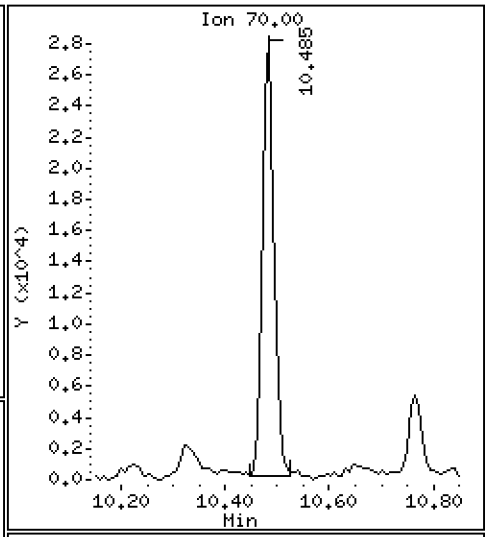
Column phase: ZB-5msi

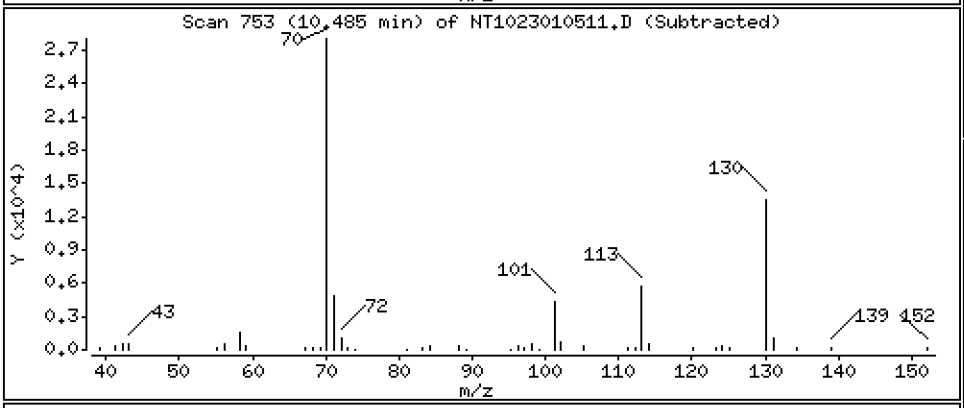
Column diameter: 0.25

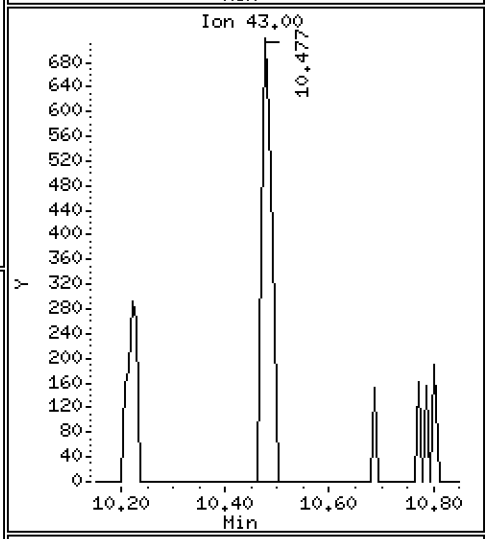
16 N-Nitroso-di-n-propylamine

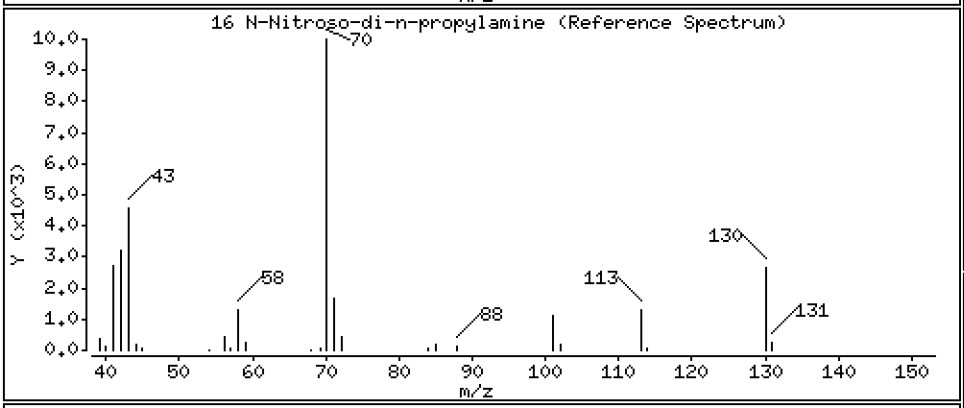
Concentration: 4.774 ug/mL

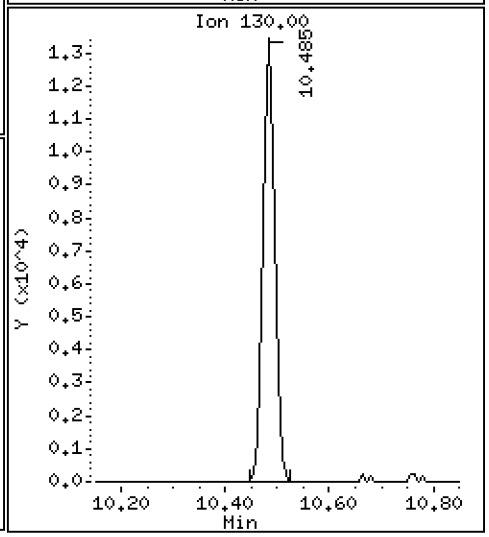


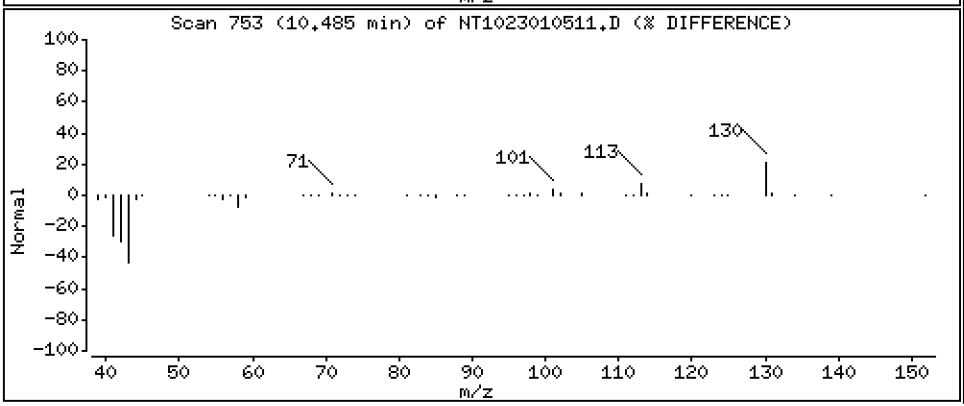












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

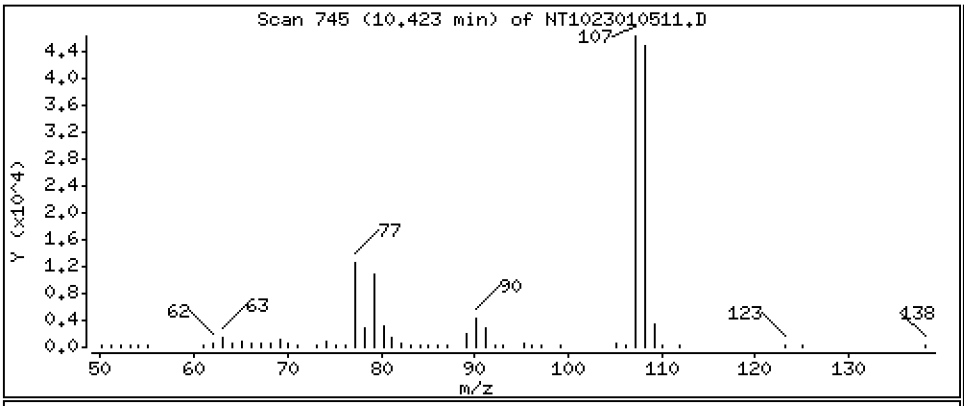
Operator: VTS

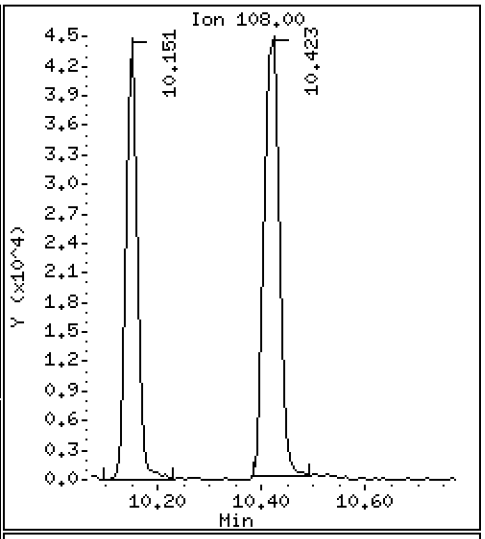
Column phase: ZB-5msi

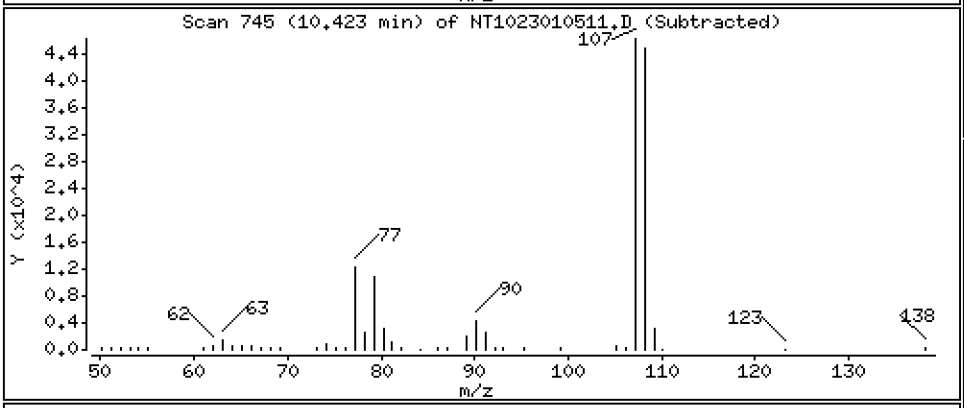
Column diameter: 0.25

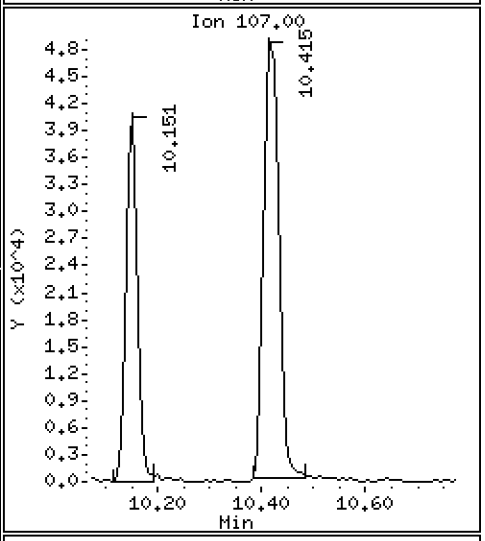
15 4-Methylphenol

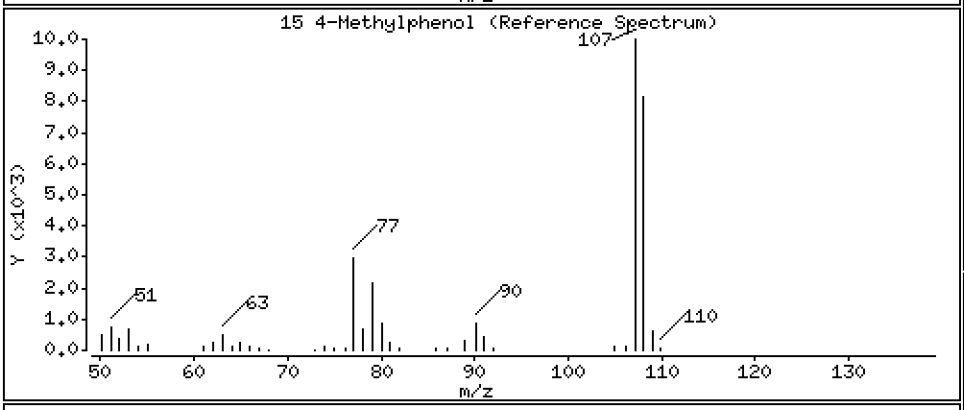
Concentration: 6.304 ug/mL

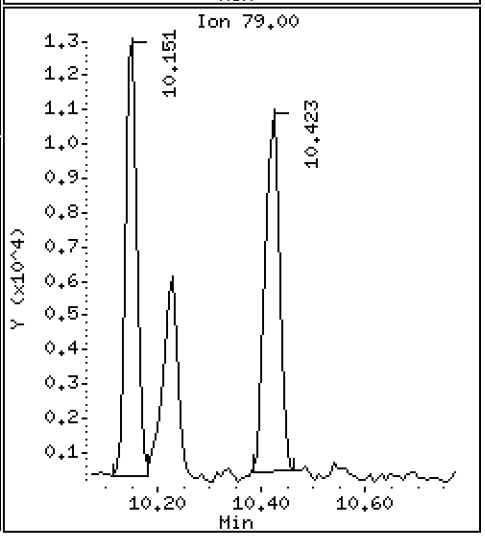


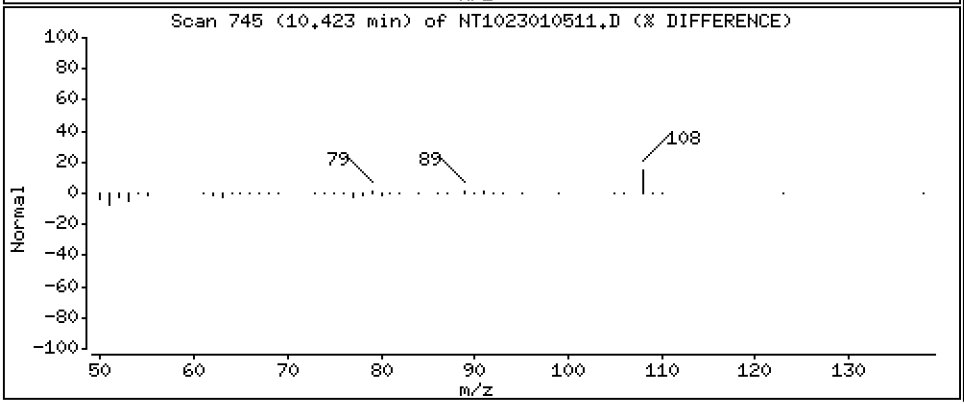












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

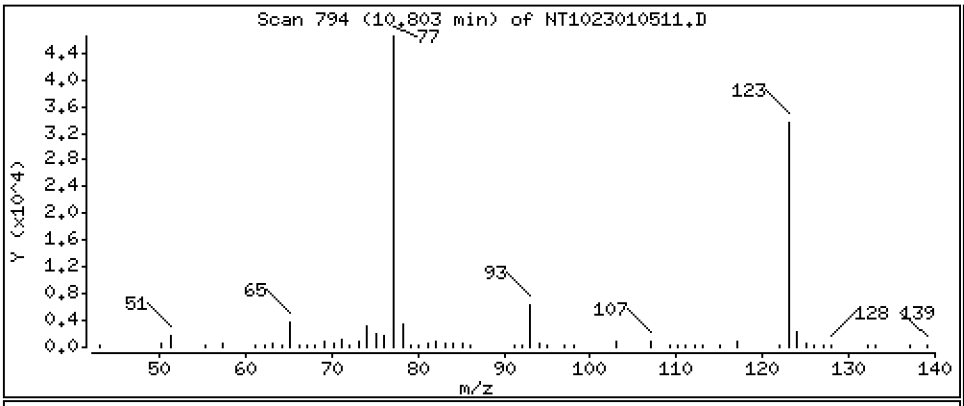
Operator: VTS

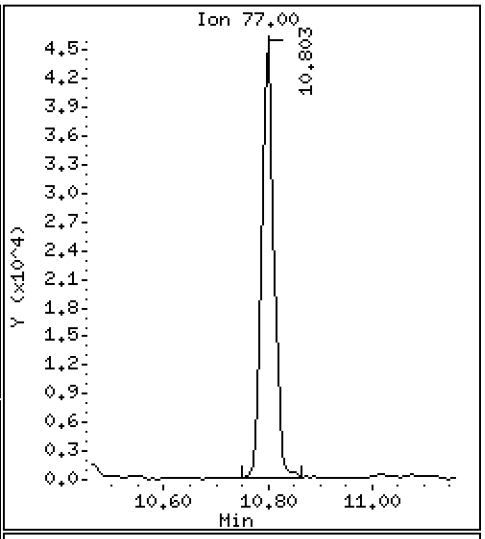
Column phase: ZB-5msi

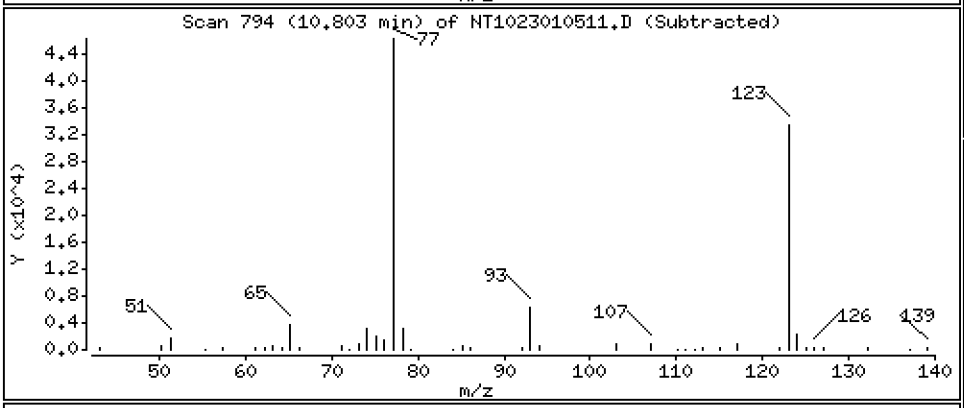
Column diameter: 0.25

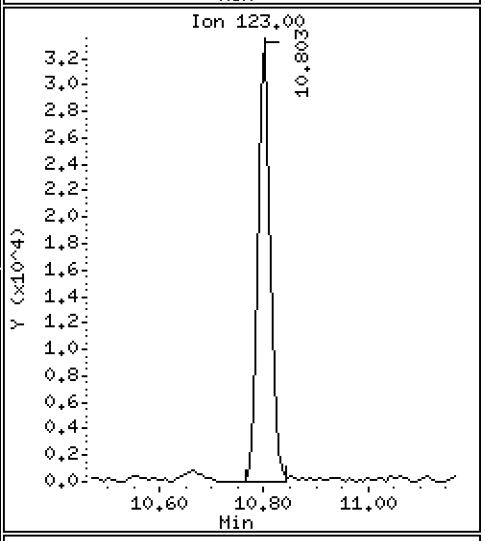
19 Nitrobenzene

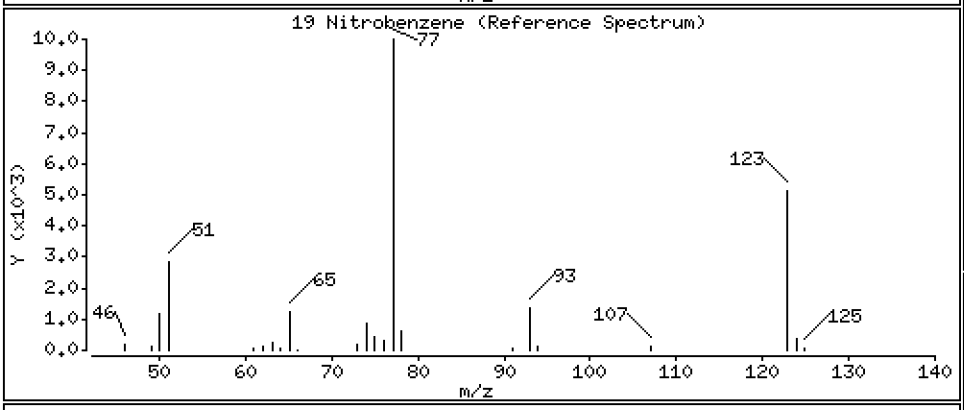
Concentration: 5.073 ug/mL

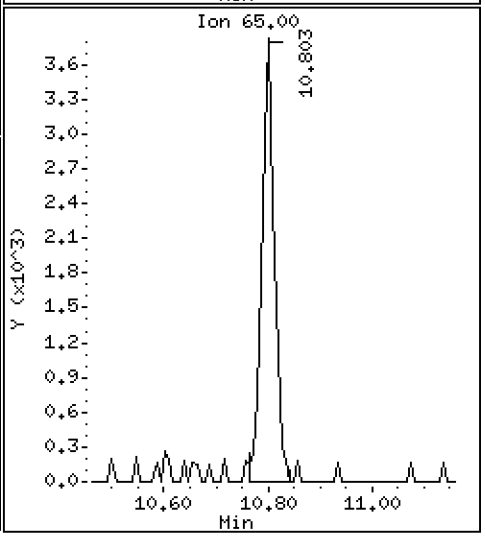


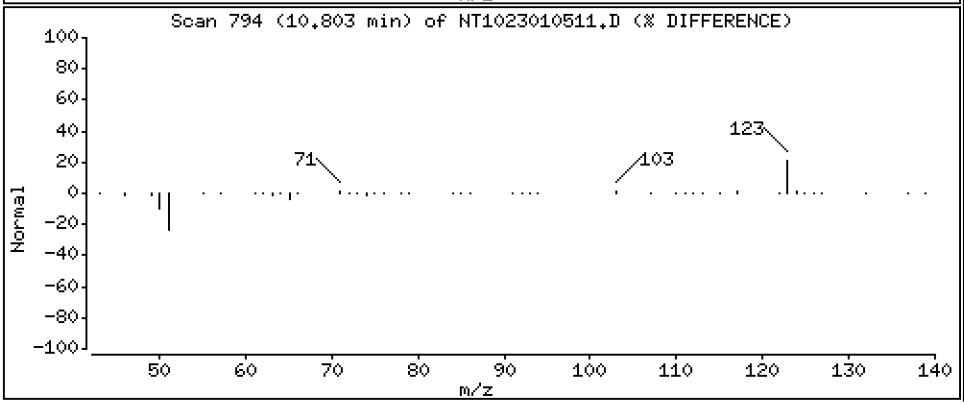












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

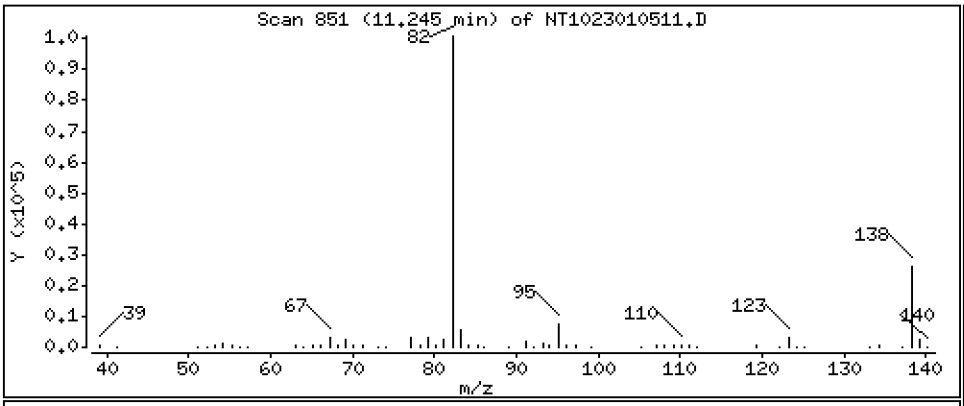
Operator: VTS

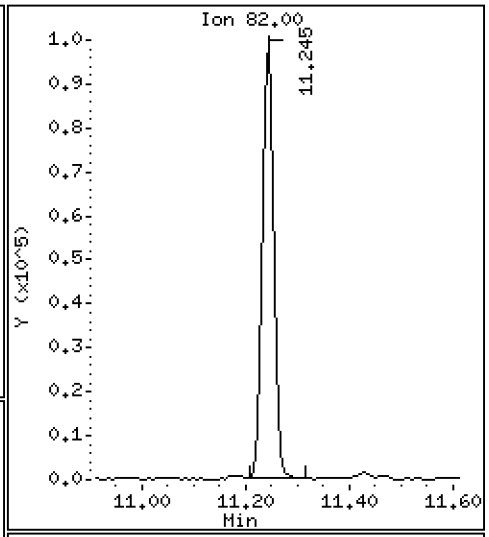
Column phase: ZB-5msi

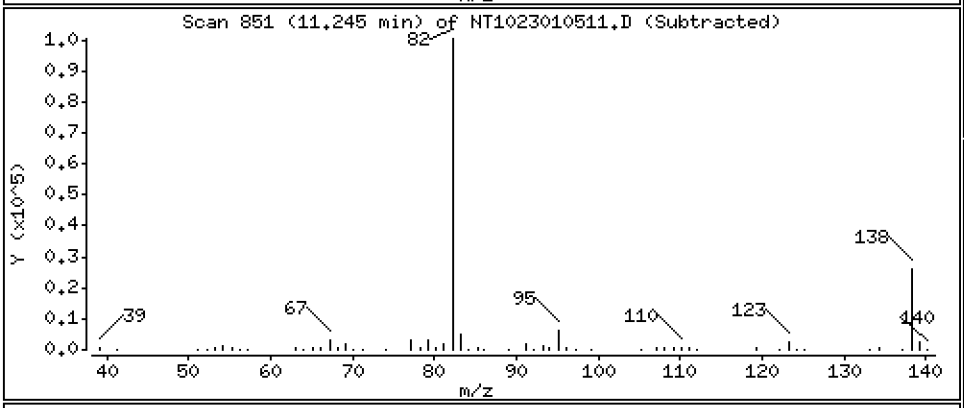
Column diameter: 0.25

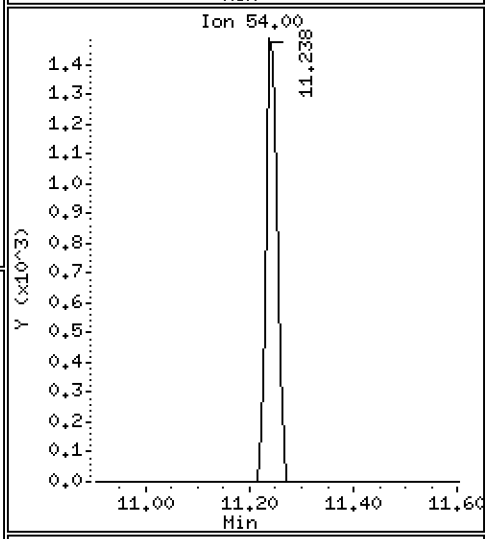
20 Isophorone

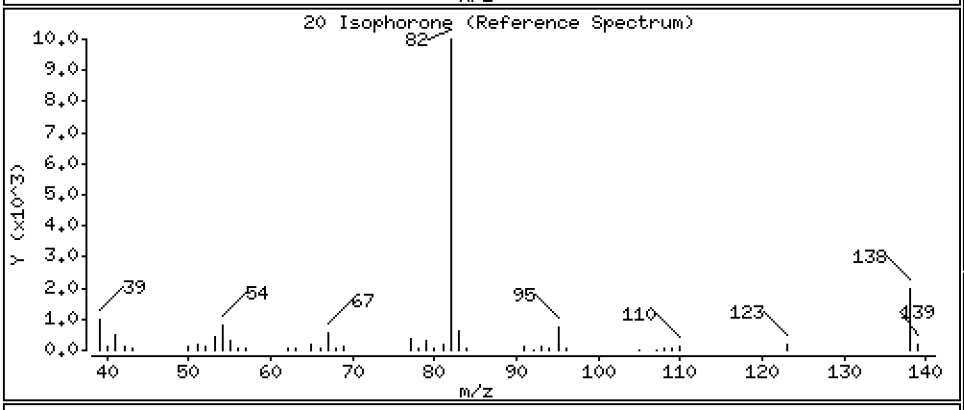
Concentration: 6.845 ug/mL

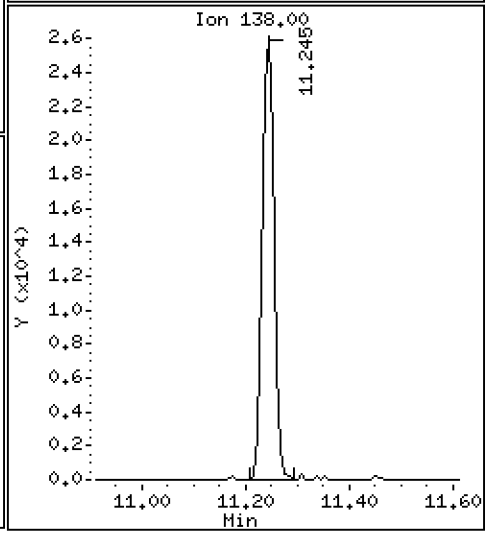


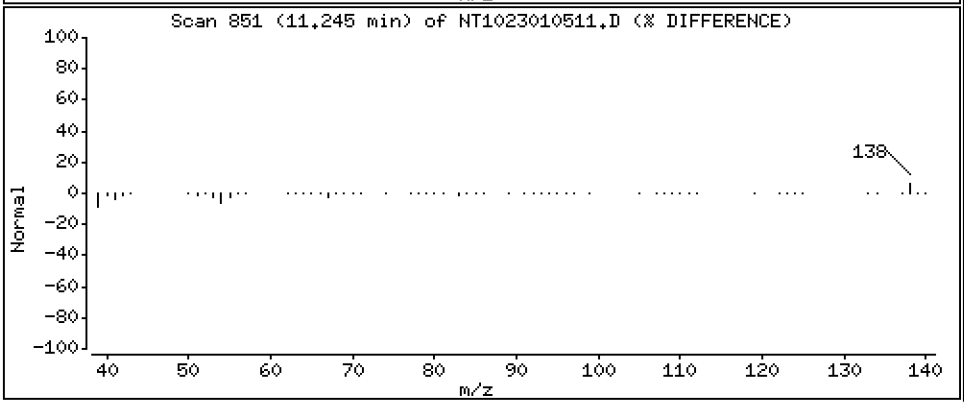












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

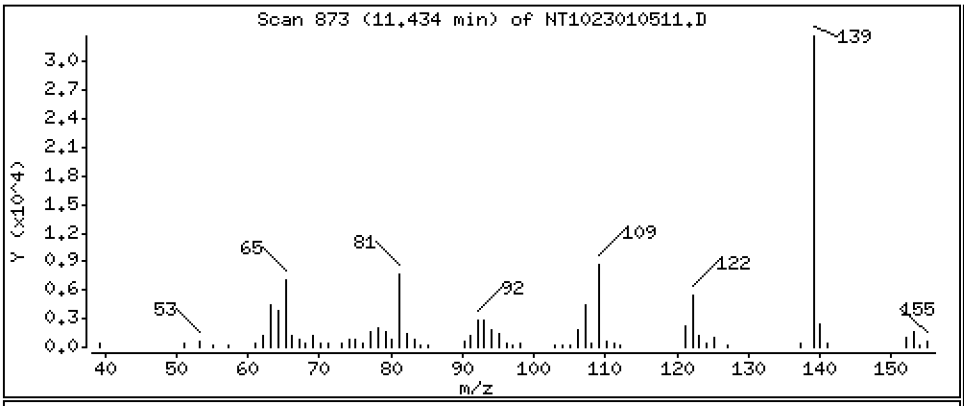
Operator: VTS

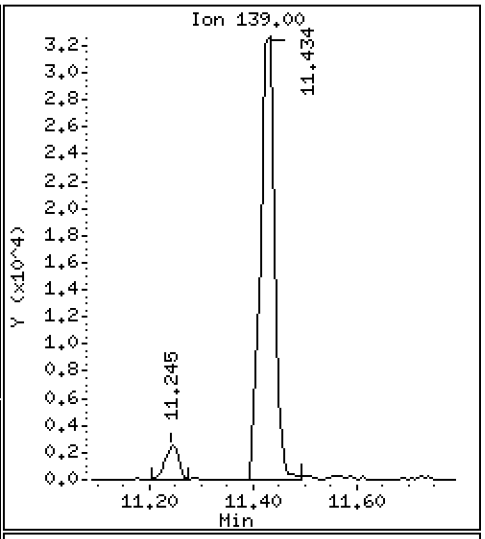
Column phase: ZB-5msi

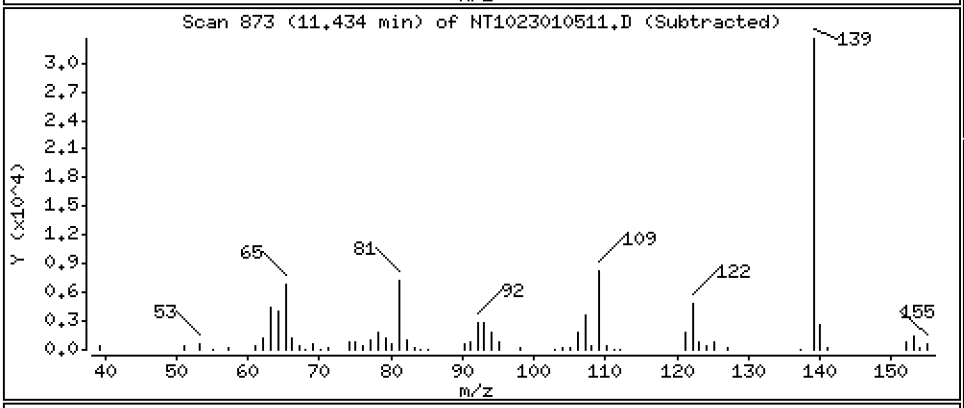
Column diameter: 0.25

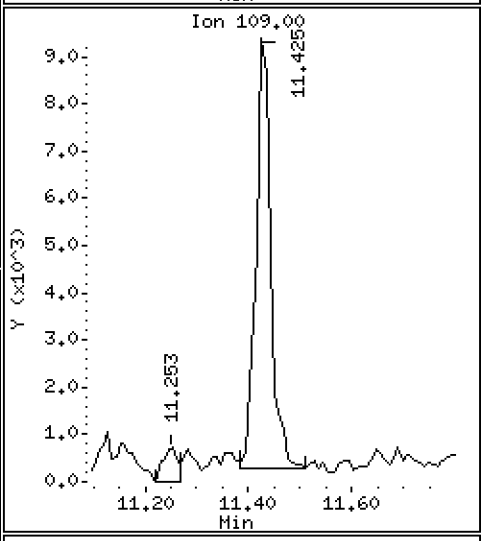
21 2-Nitrophenol

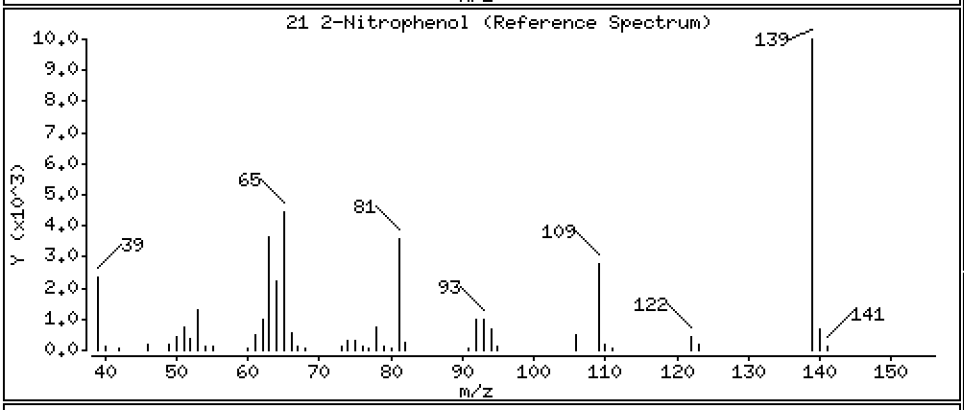
Concentration: 4.758 ug/mL

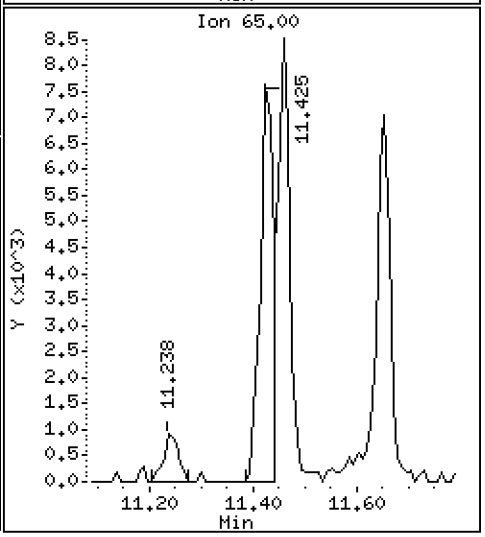


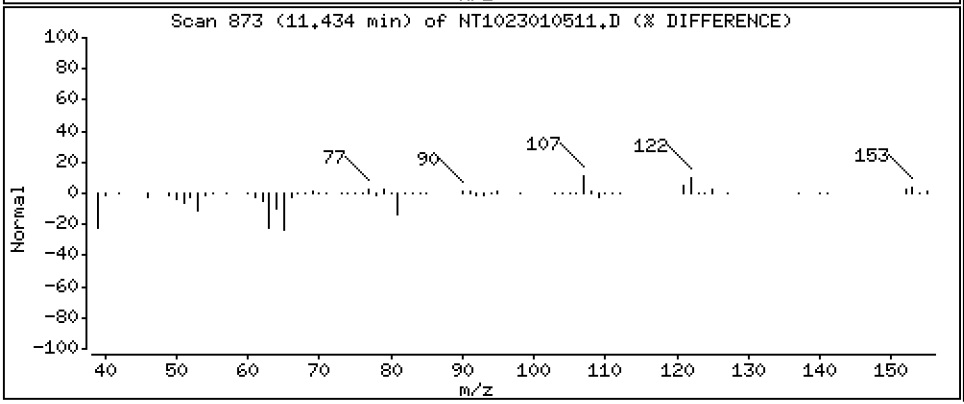












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

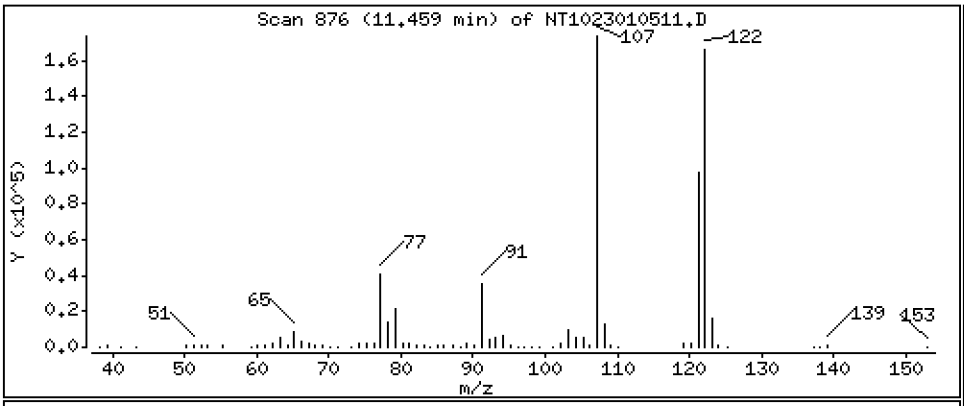
Operator: VTS

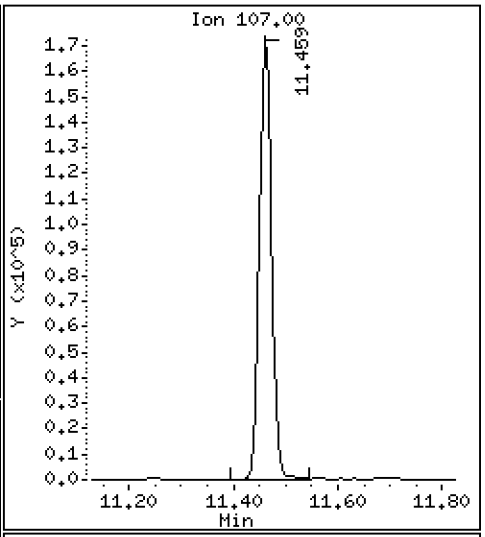
Column phase: ZB-5msi

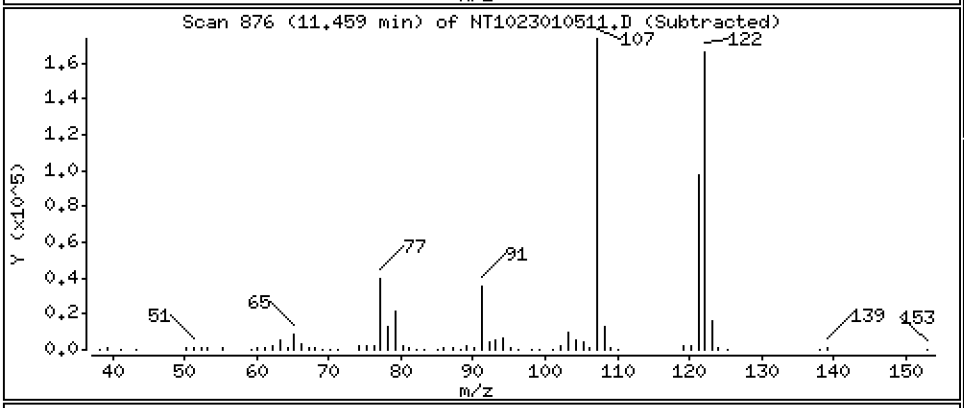
Column diameter: 0.25

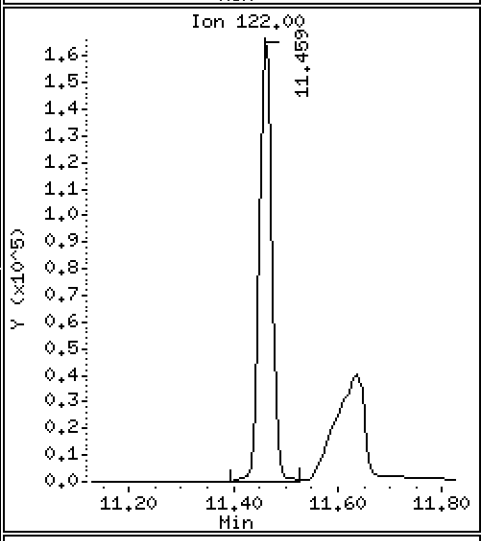
22 2,4-Dimethylphenol

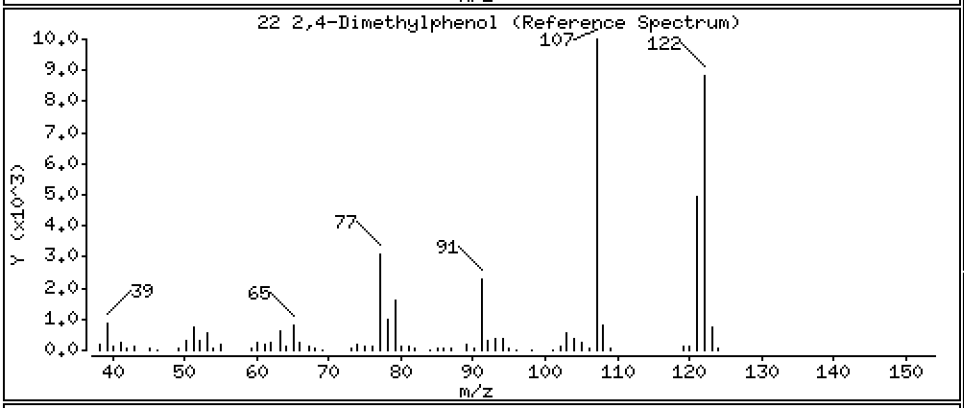
Concentration: 16.71 ug/mL

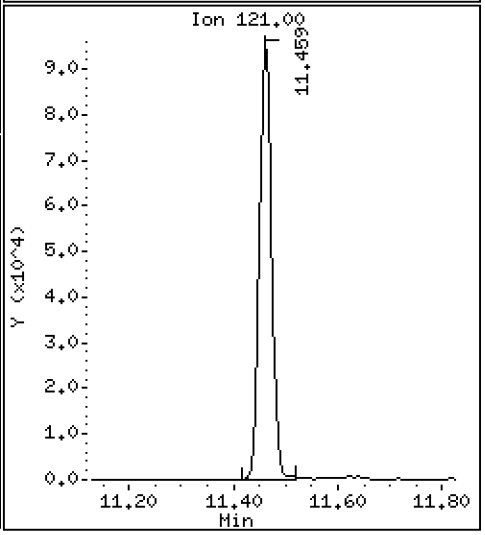


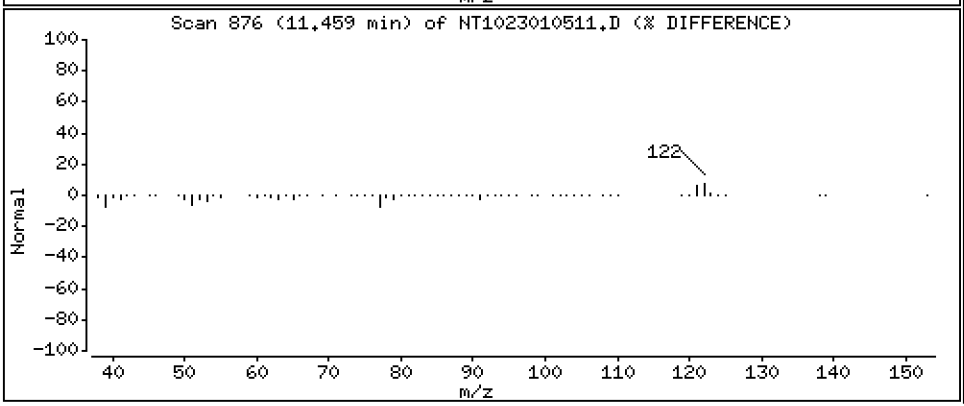












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

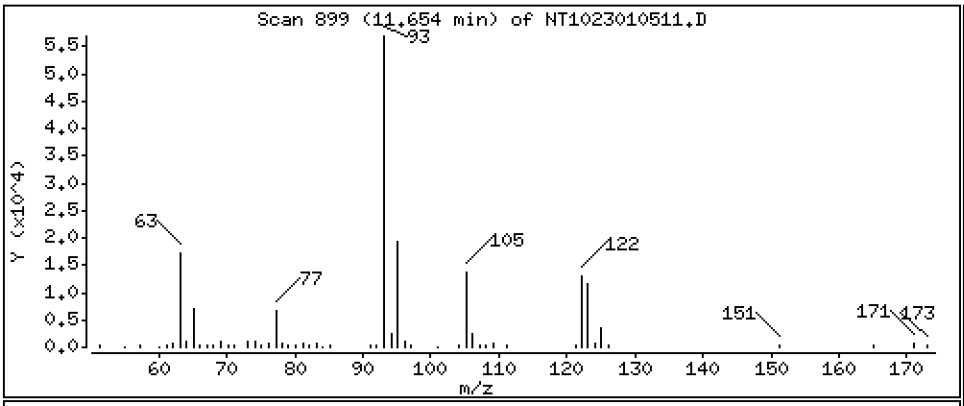
Operator: VTS

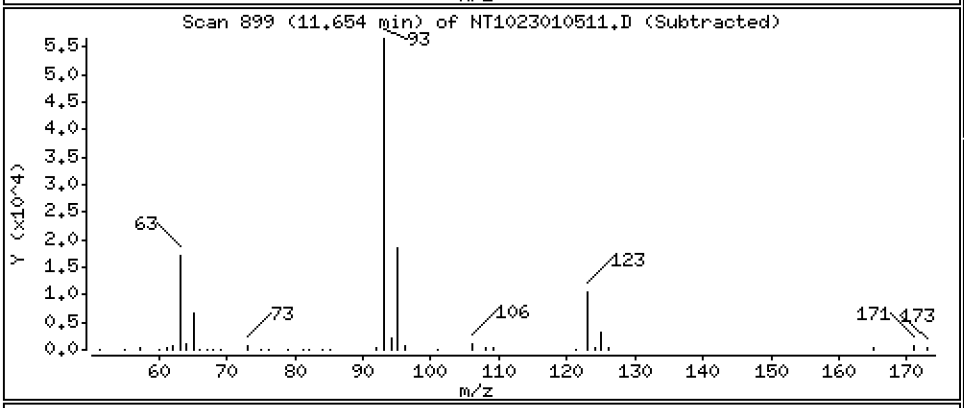
Column phase: ZB-5msi

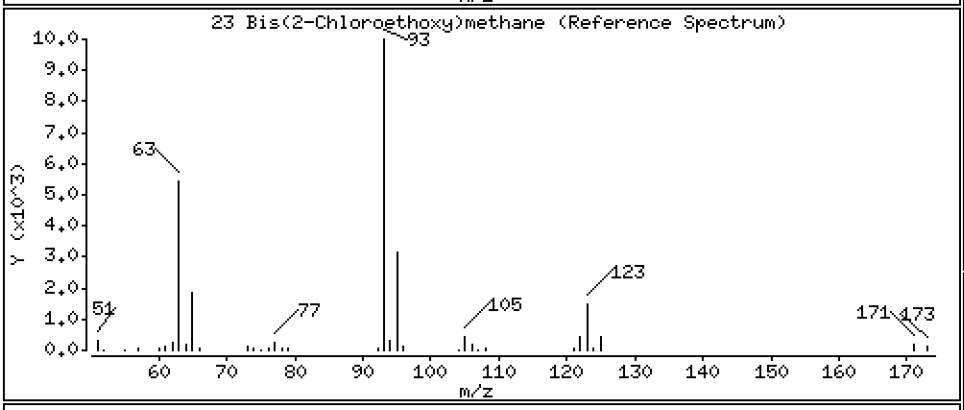
Column diameter: 0.25

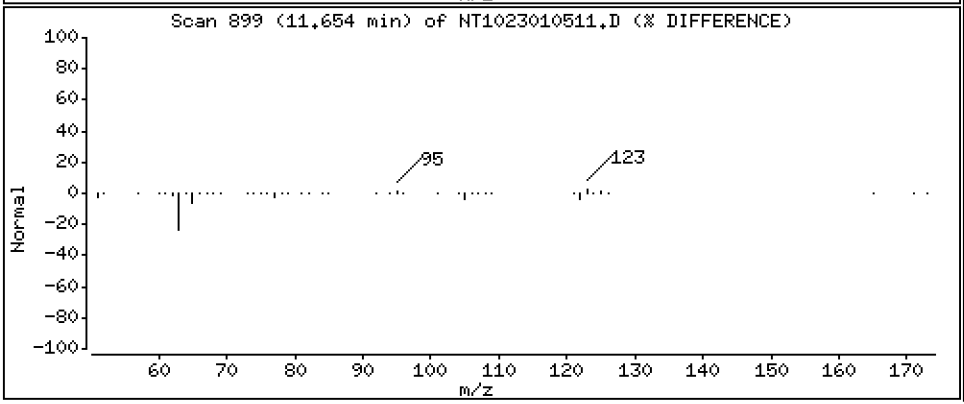
23 Bis(2-Chloroethoxy)methane

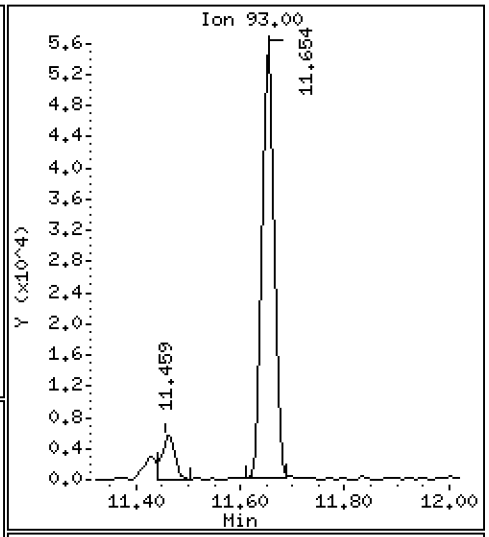
Concentration: 5.524 ug/mL

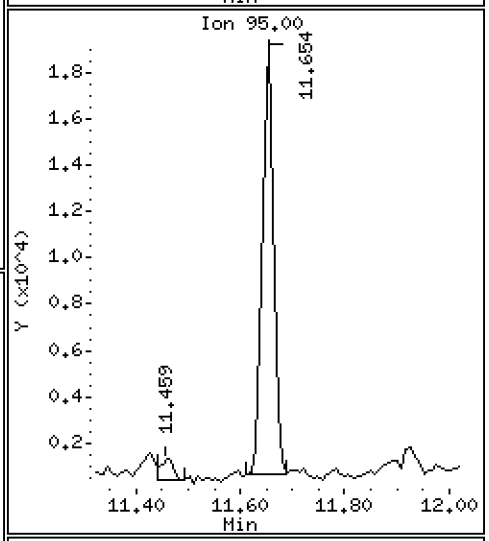


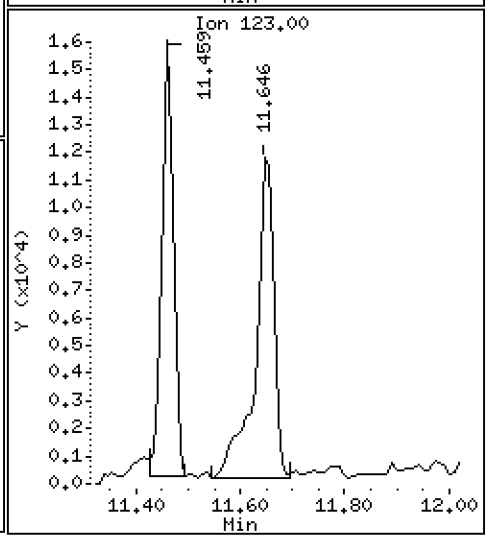












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

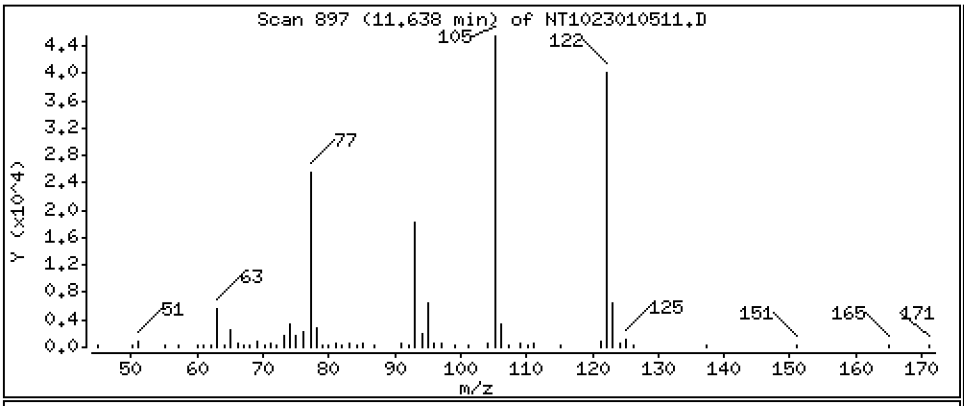
Operator: VTS

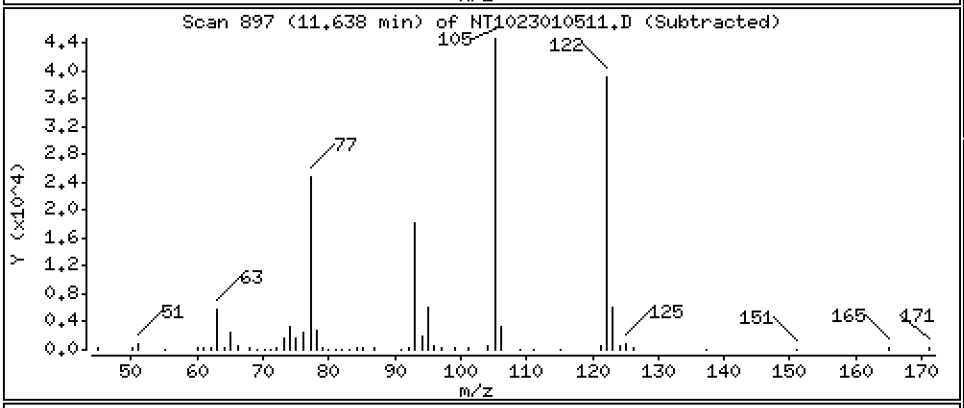
Column phase: ZB-5msi

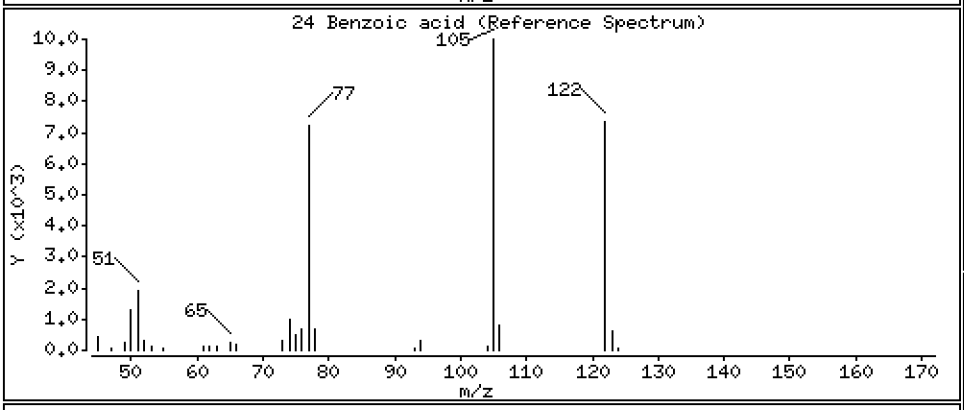
Column diameter: 0.25

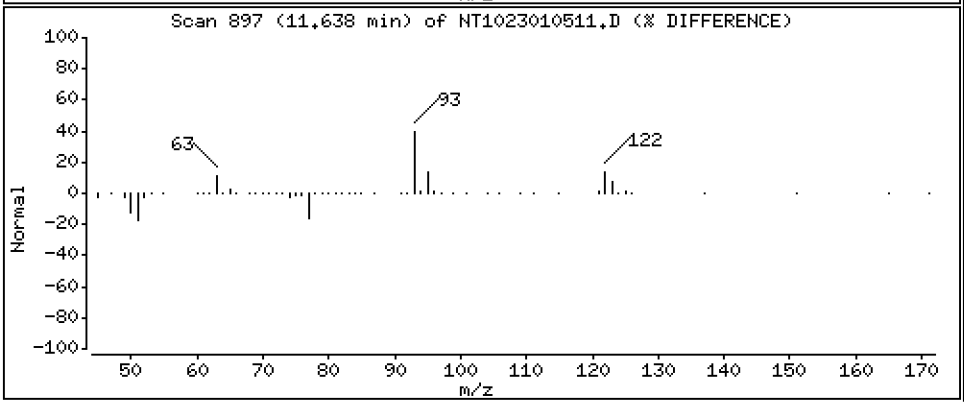
24 Benzoic acid

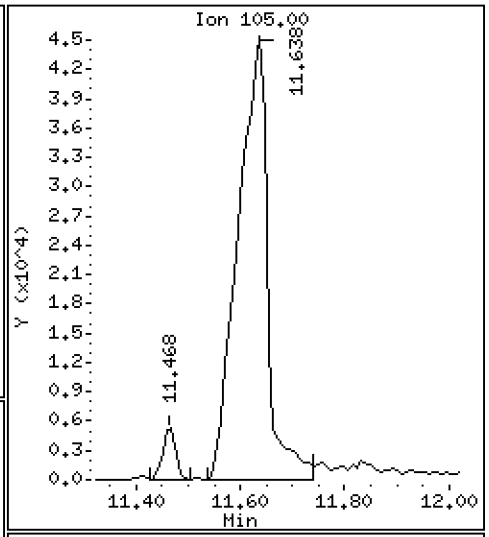
Concentration: 21.78 ug/mL

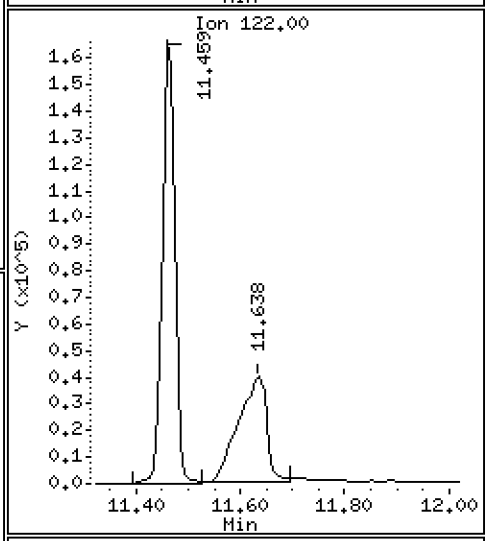


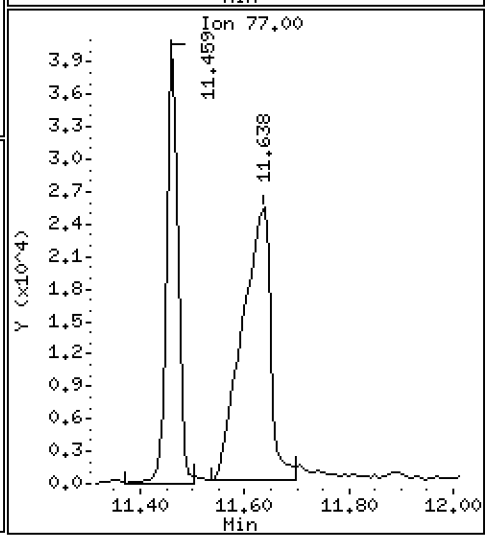












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

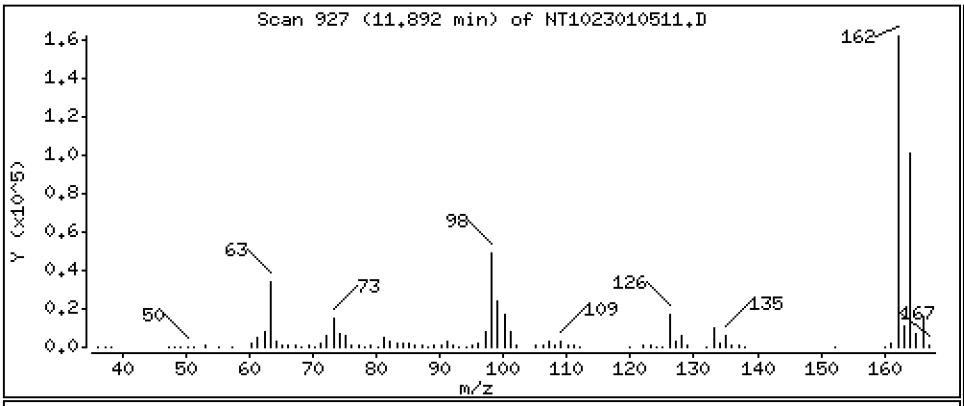
Operator: VTS

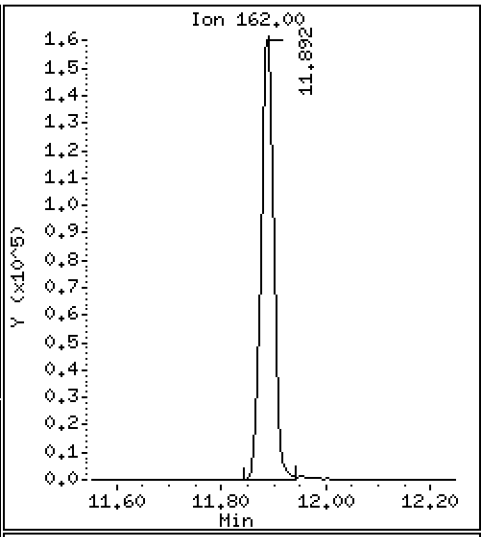
Column phase: ZB-5msi

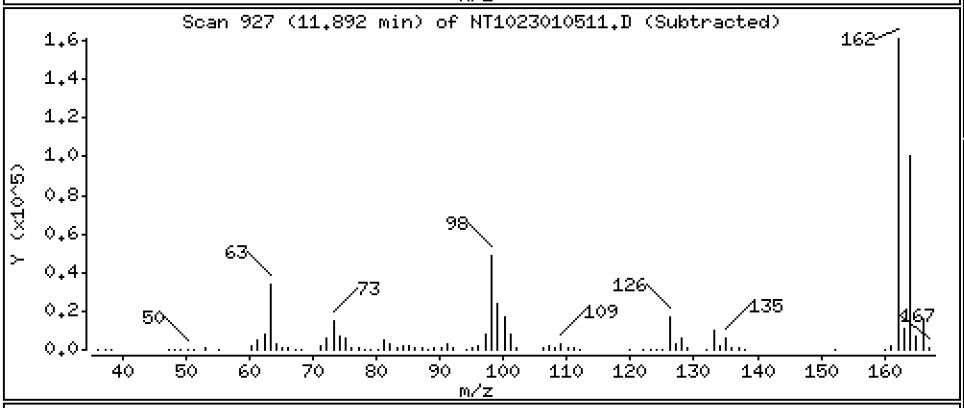
Column diameter: 0.25

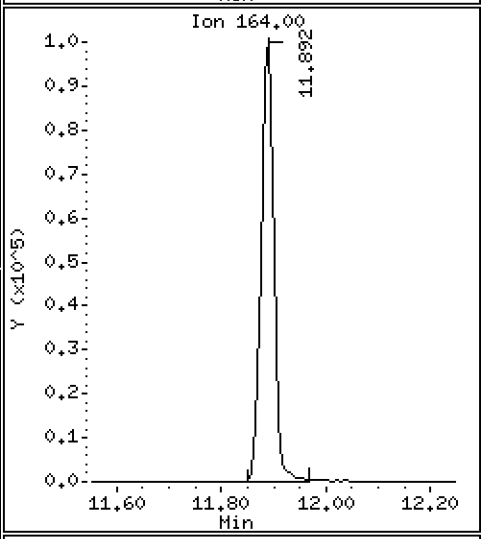
25 2,4-Dichlorophenol

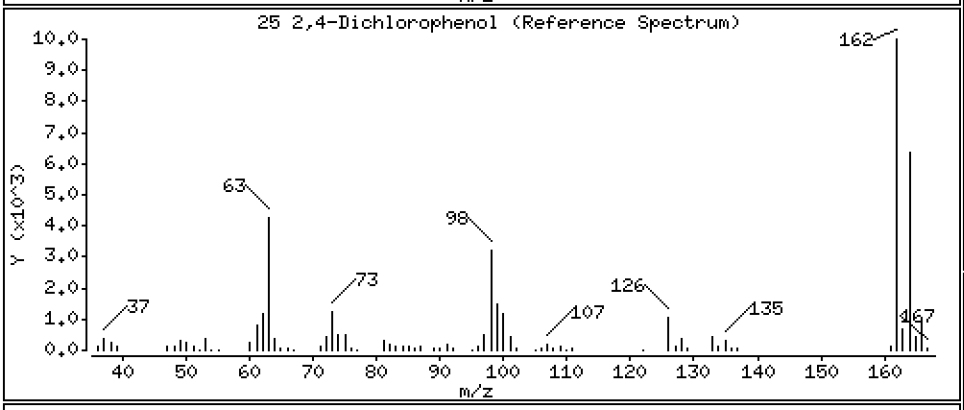
Concentration: 18.05 ug/mL

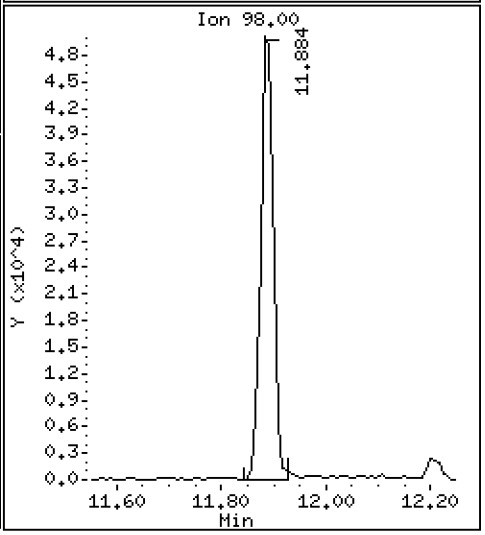


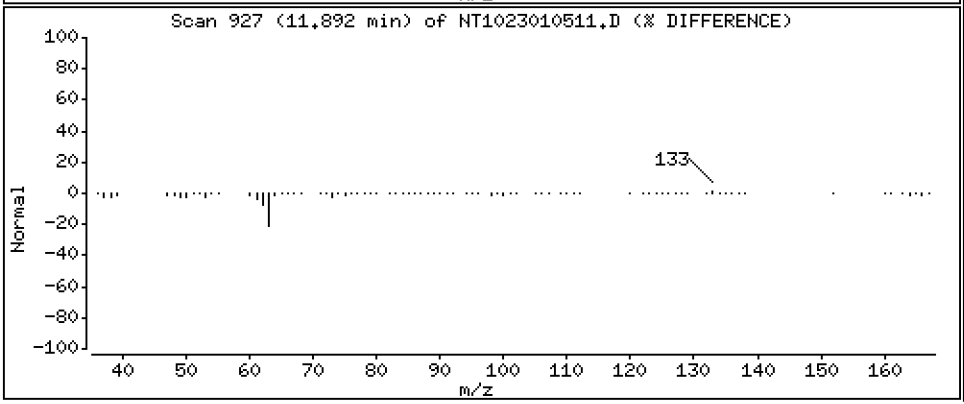












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

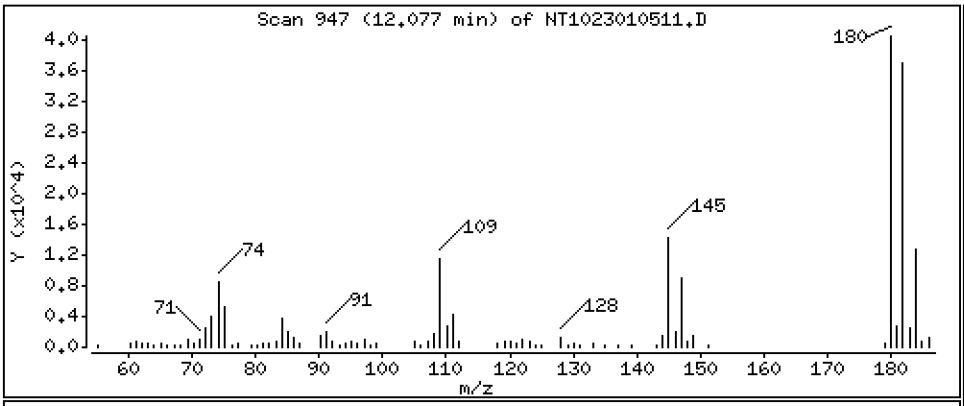
Operator: VTS

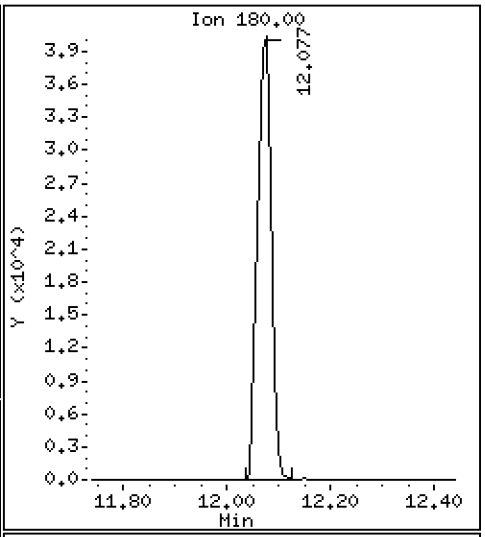
Column phase: ZB-5msi

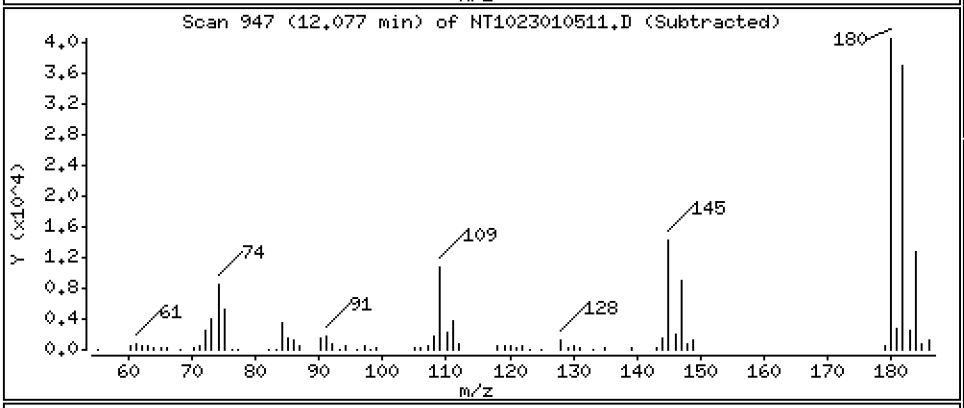
Column diameter: 0.25

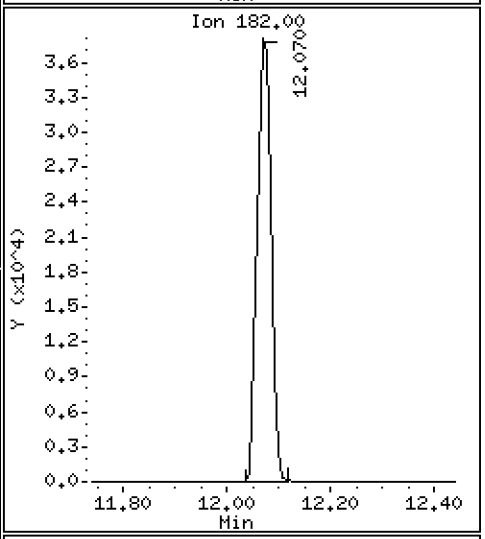
26 1,2,4-Trichlorobenzene

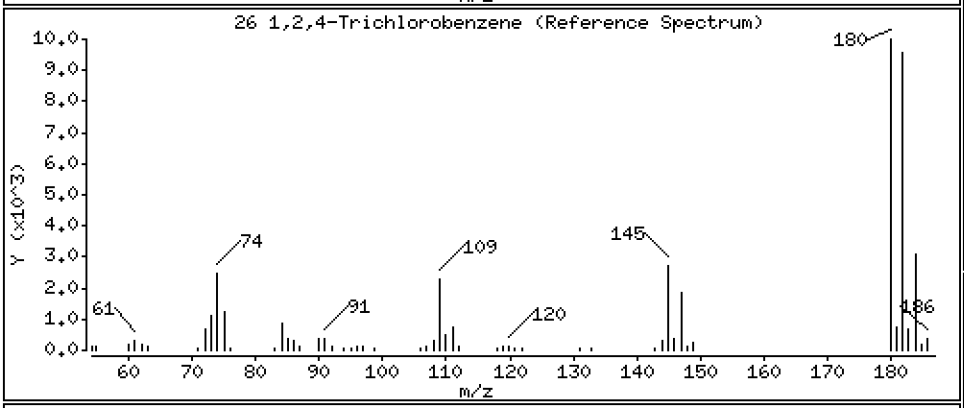
Concentration: 4.488 ug/mL

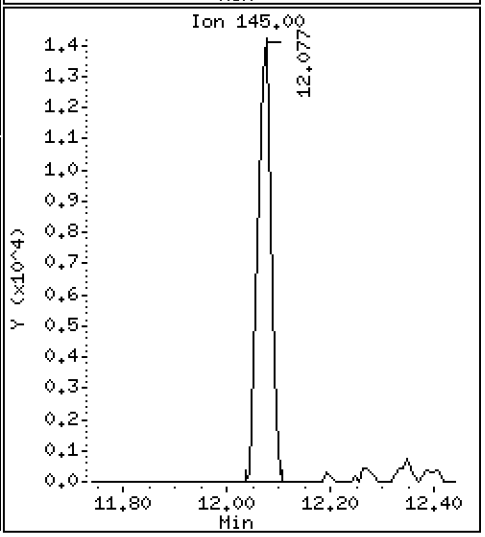


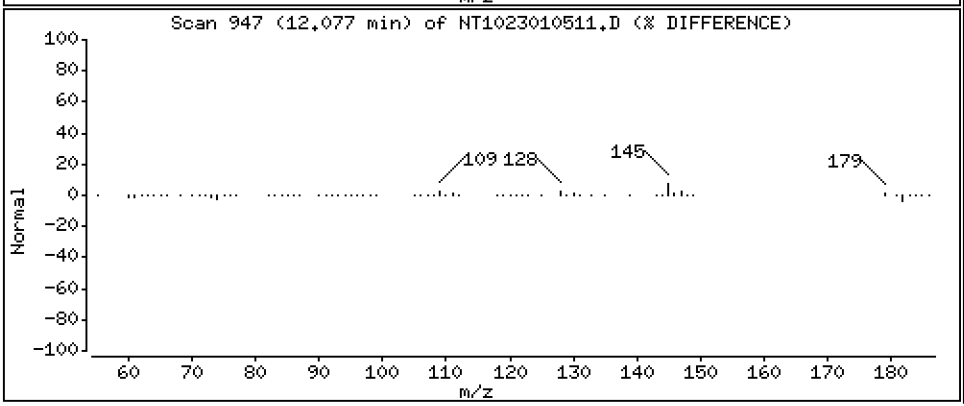












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

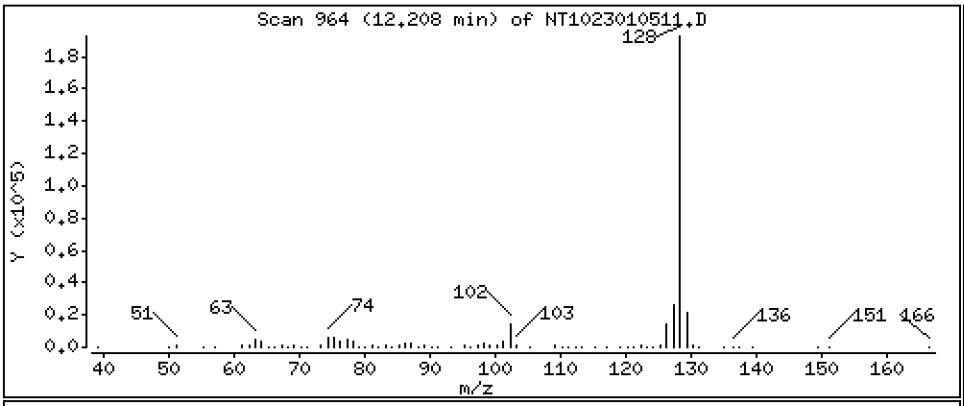
Operator: VTS

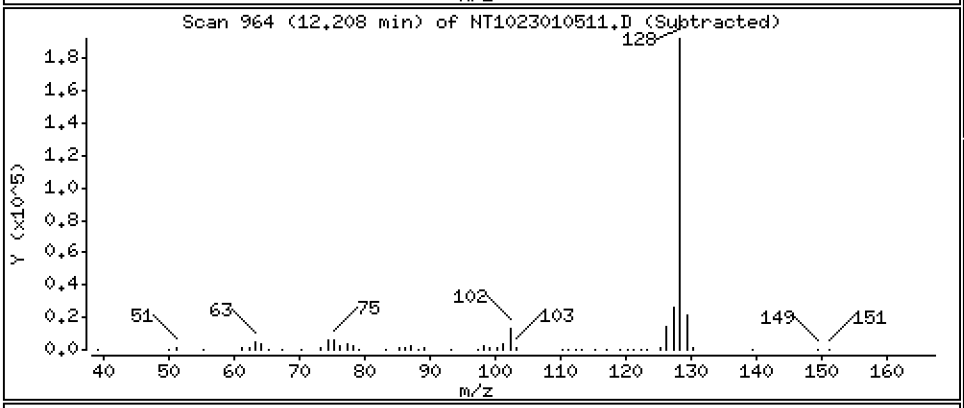
Column phase: ZB-5msi

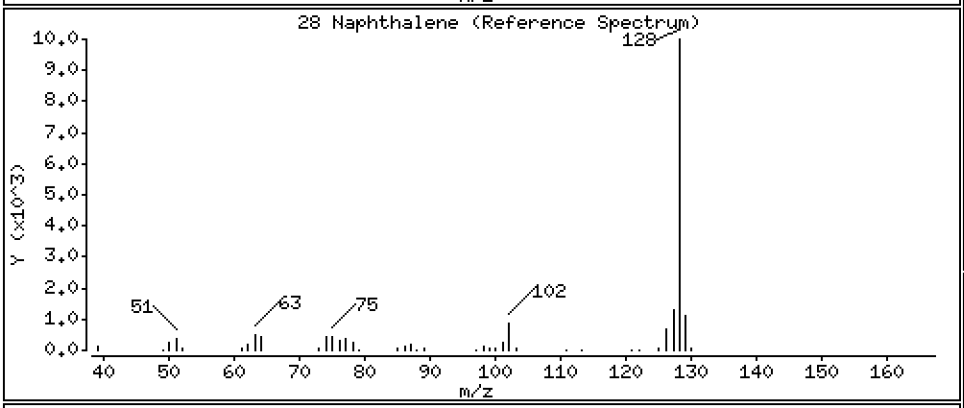
Column diameter: 0.25

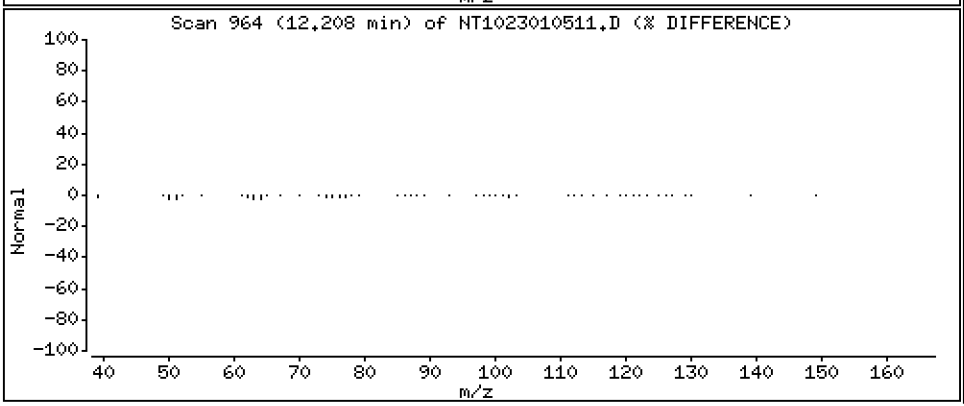
28 Naphthalene

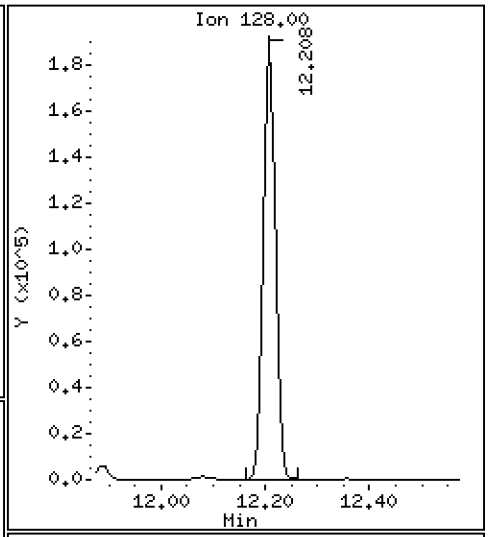
Concentration: 5.403 ug/mL

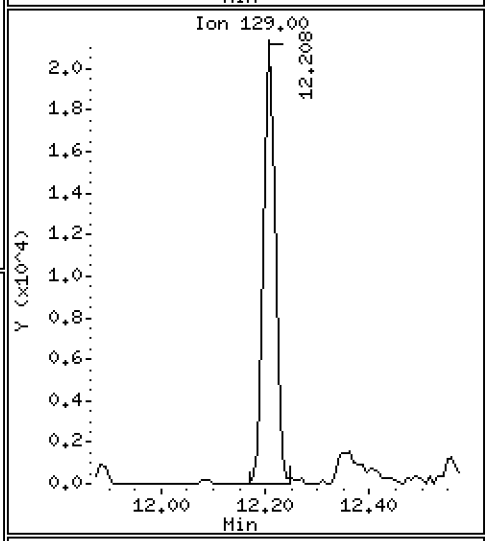


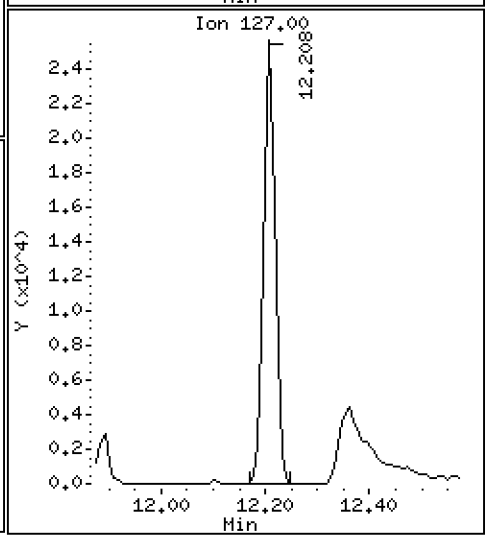












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

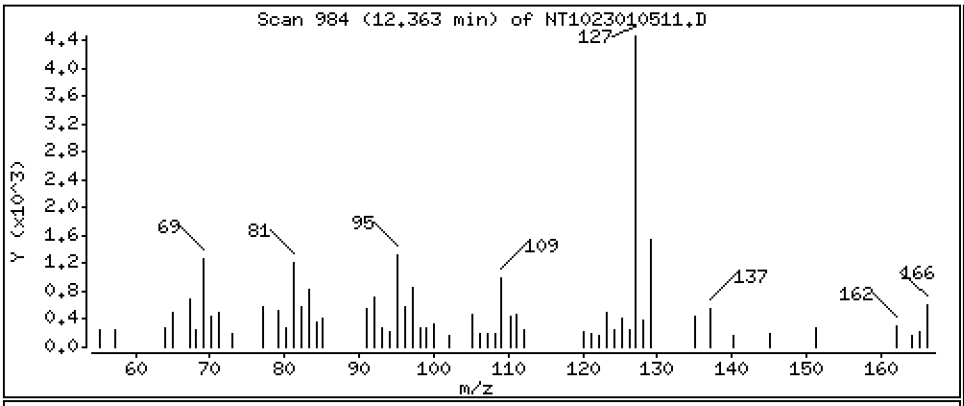
Operator: VTS

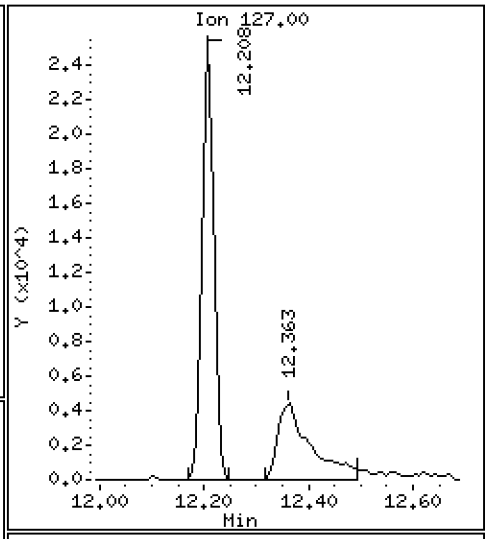
Column phase: ZB-5msi

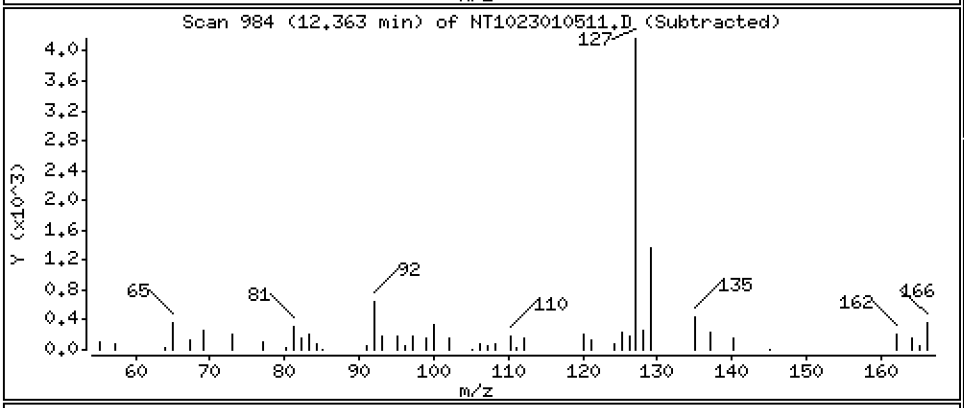
Column diameter: 0.25

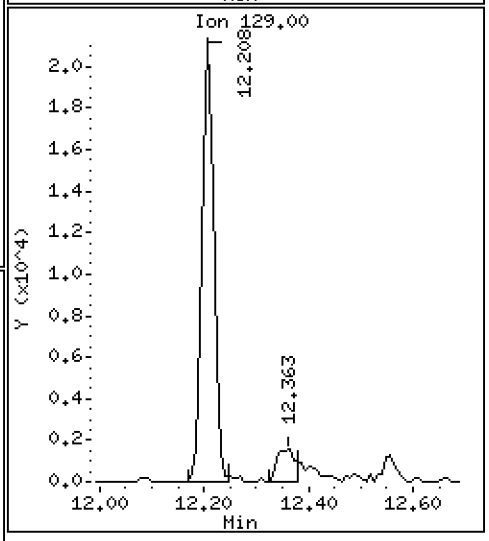
29 4-Chloroaniline

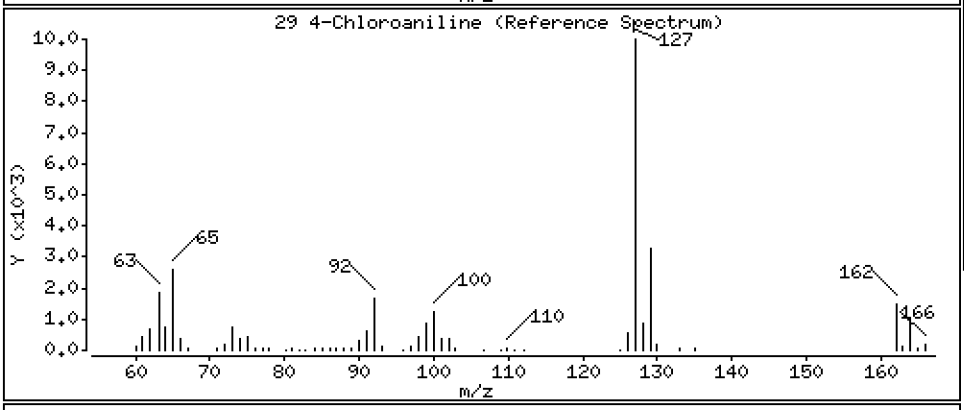
Concentration: 0.9786 ug/mL

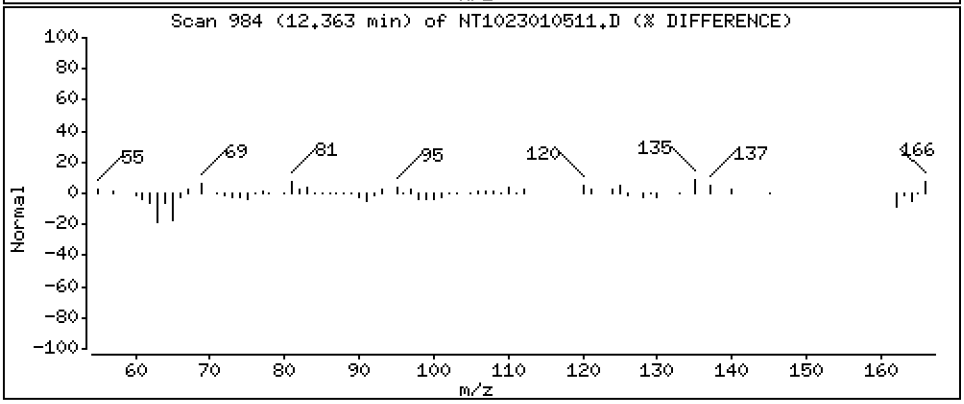












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

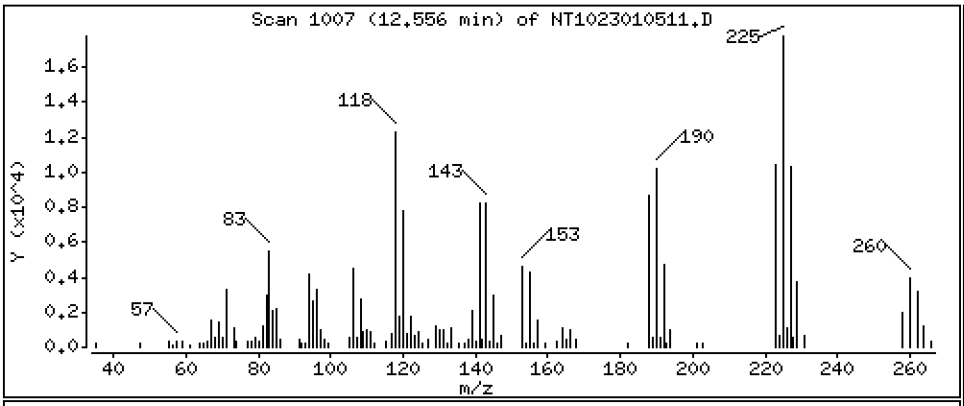
Operator: VTS

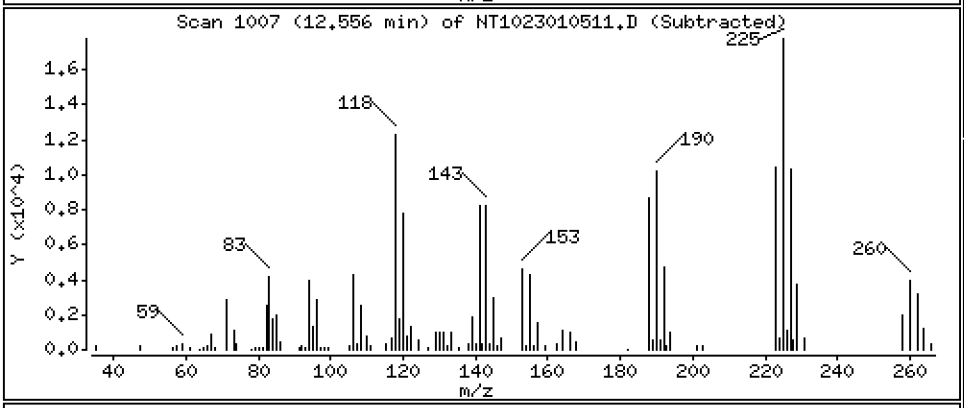
Column phase: ZB-5msi

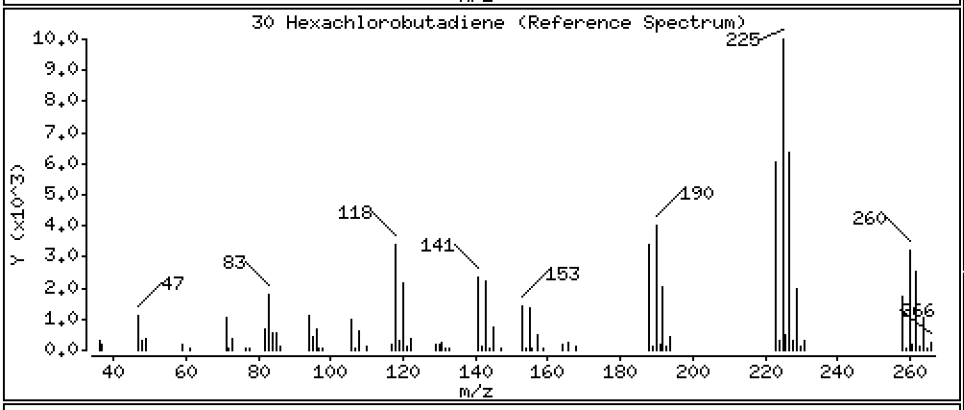
Column diameter: 0.25

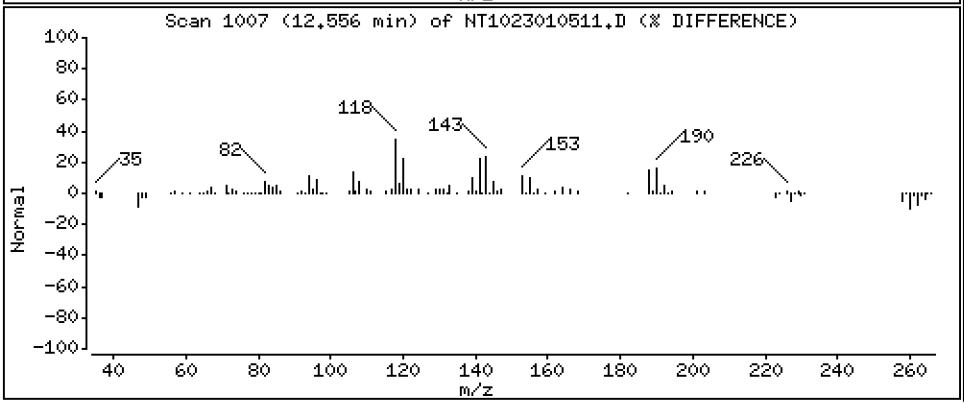
30 Hexachlorobutadiene

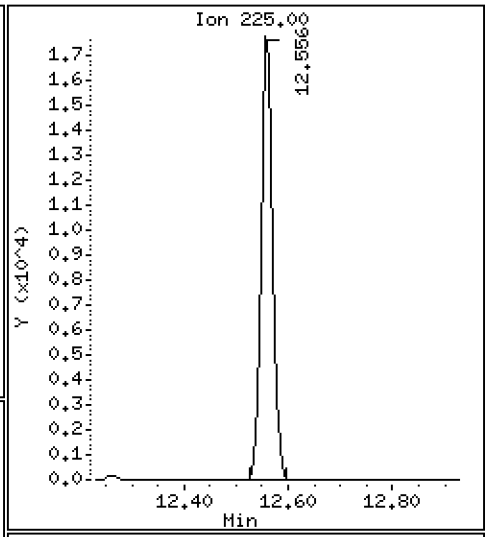
Concentration: 4.821 ug/mL

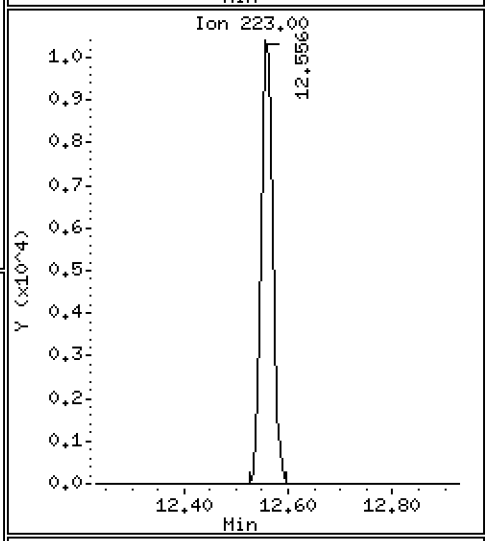


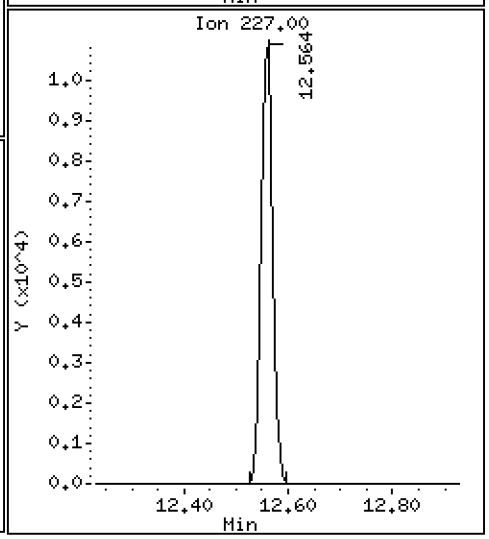












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

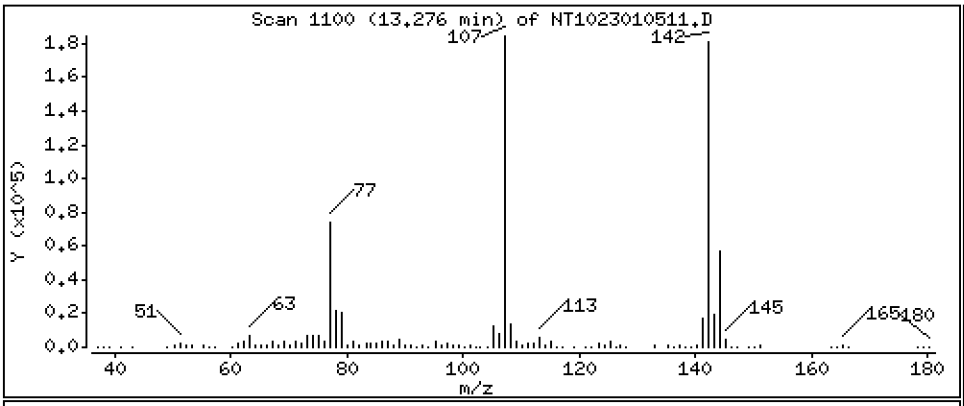
Operator: VTS

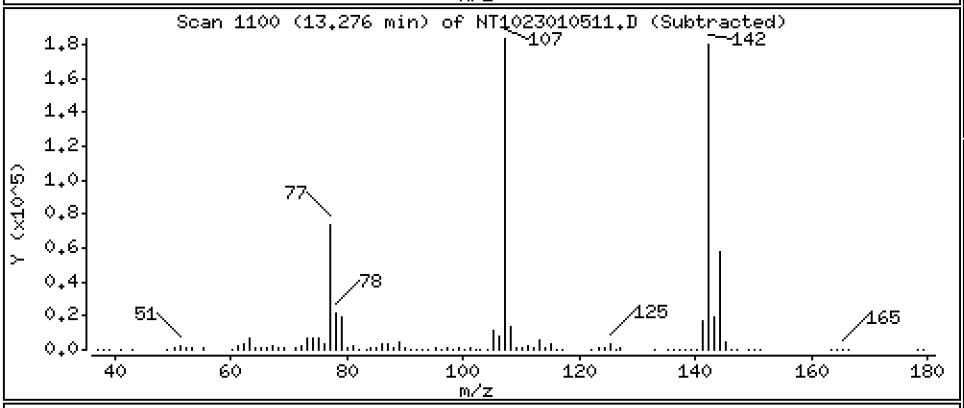
Column phase: ZB-5msi

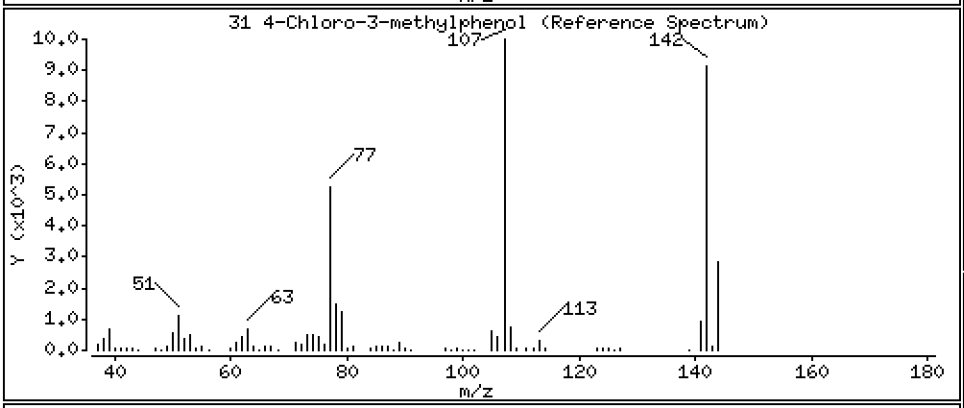
Column diameter: 0.25

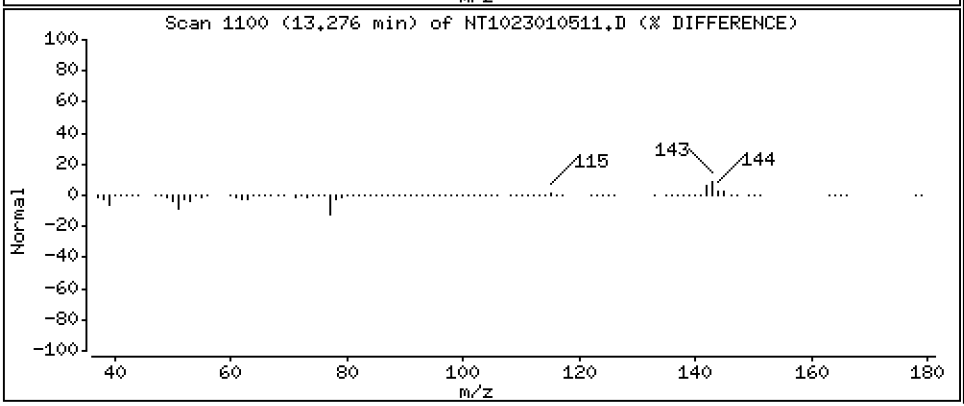
31 4-Chloro-3-methylphenol

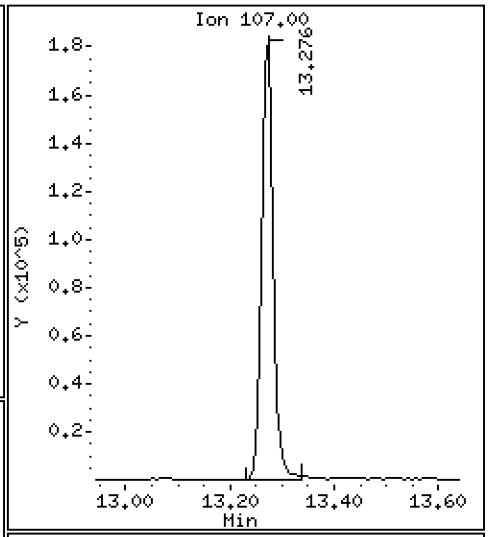
Concentration: 17.41 ug/mL

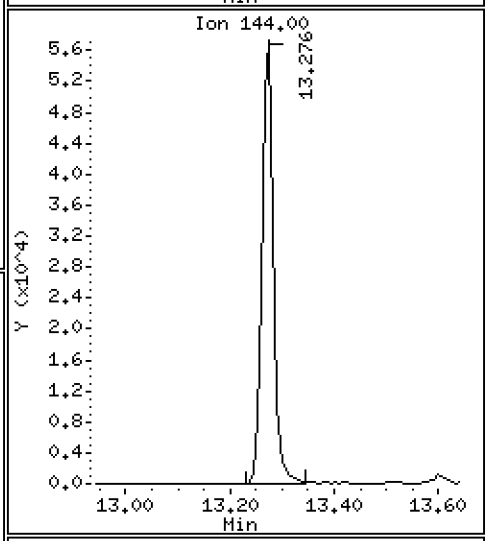


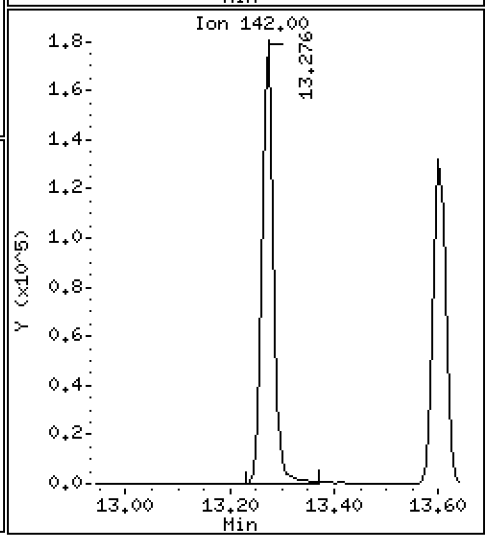












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

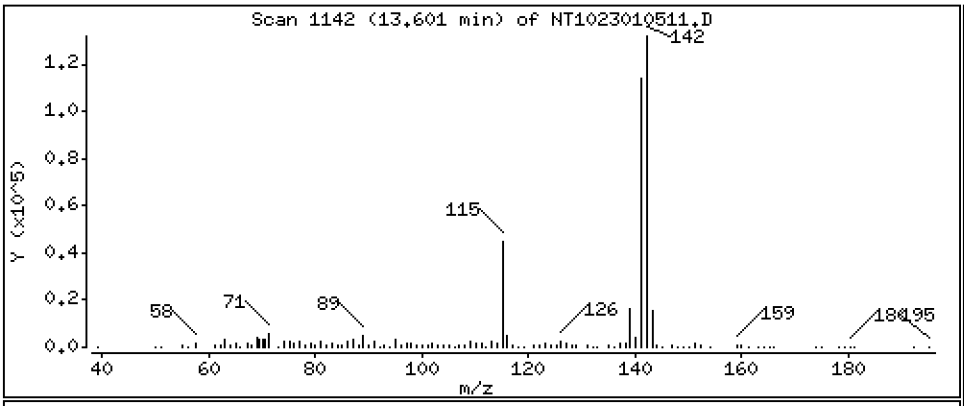
Operator: VTS

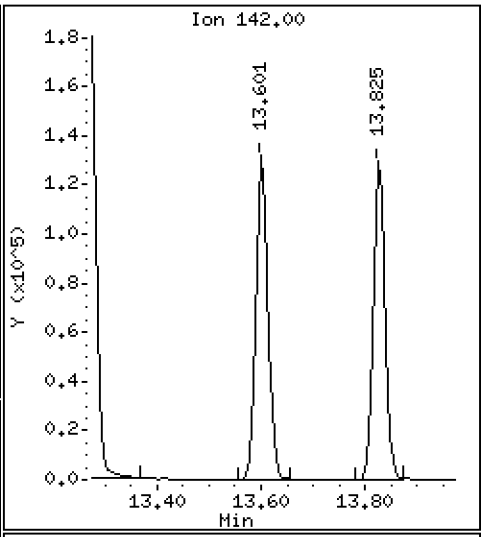
Column phase: ZB-5msi

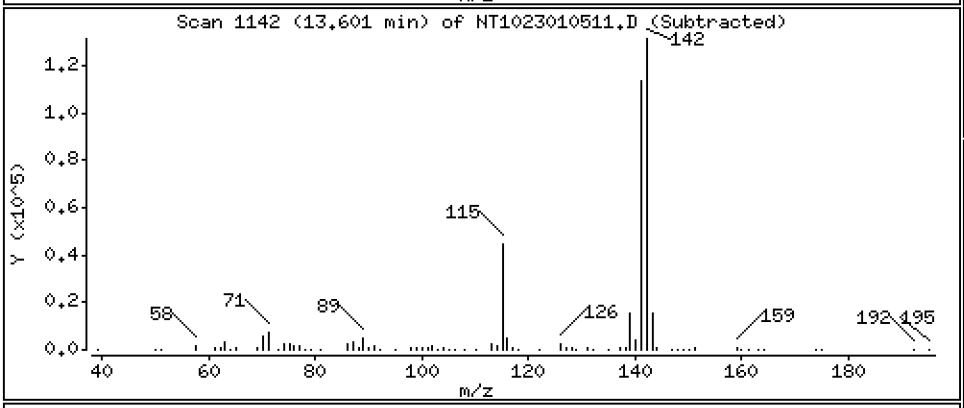
Column diameter: 0.25

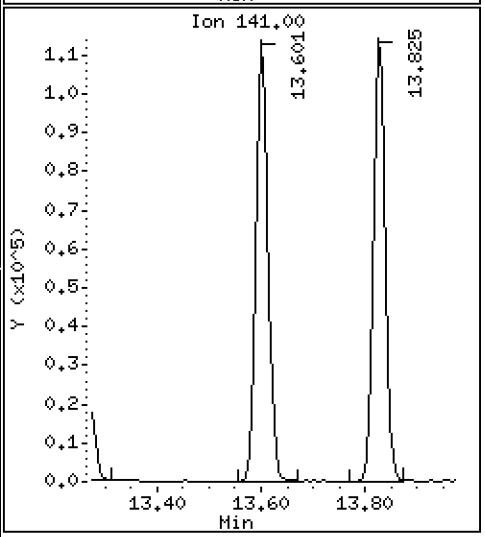
32 2-Methylnaphthalene

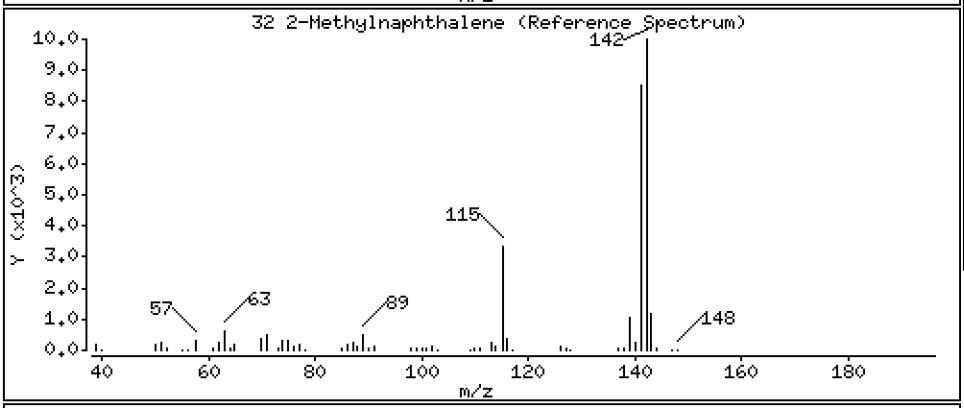
Concentration: 5.016 ug/mL

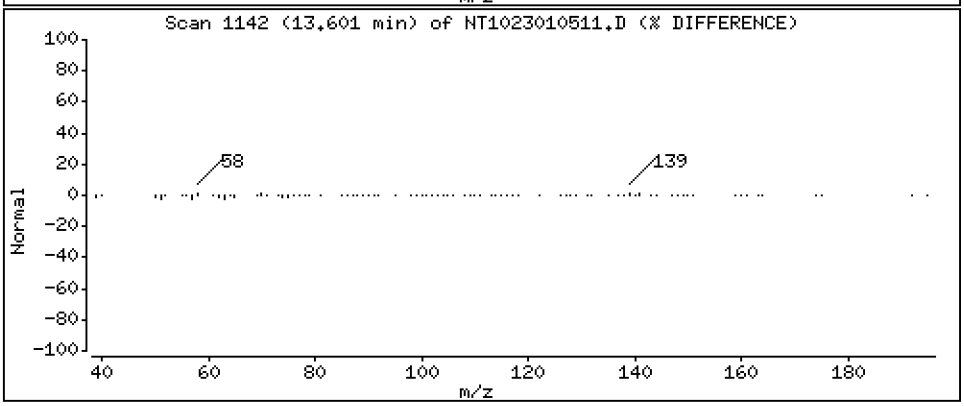












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

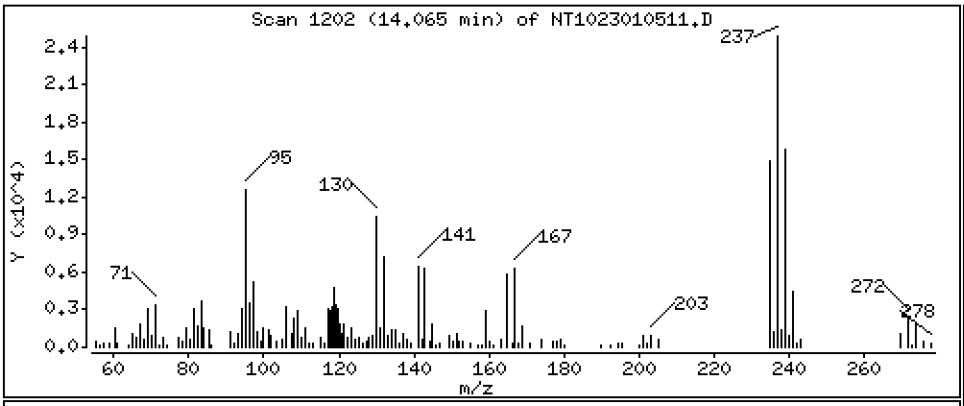
Operator: VTS

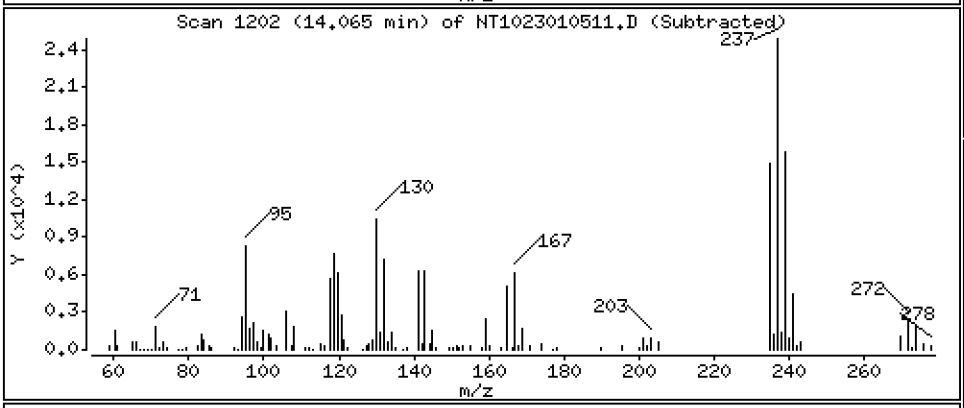
Column phase: ZB-5msi

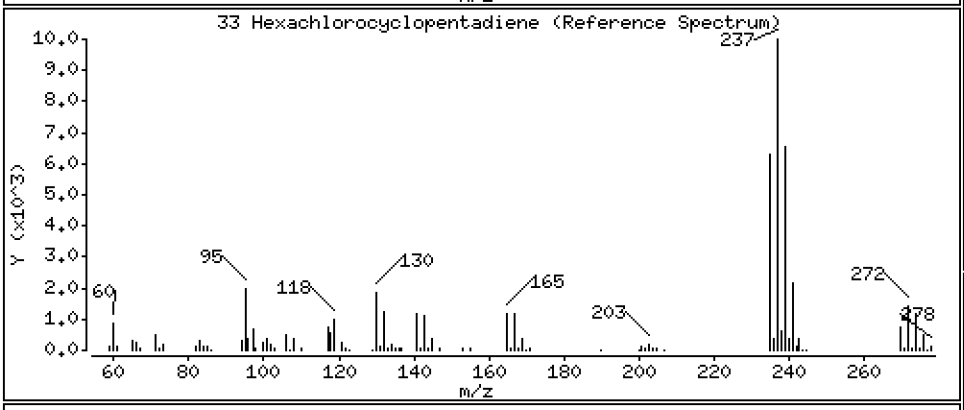
Column diameter: 0.25

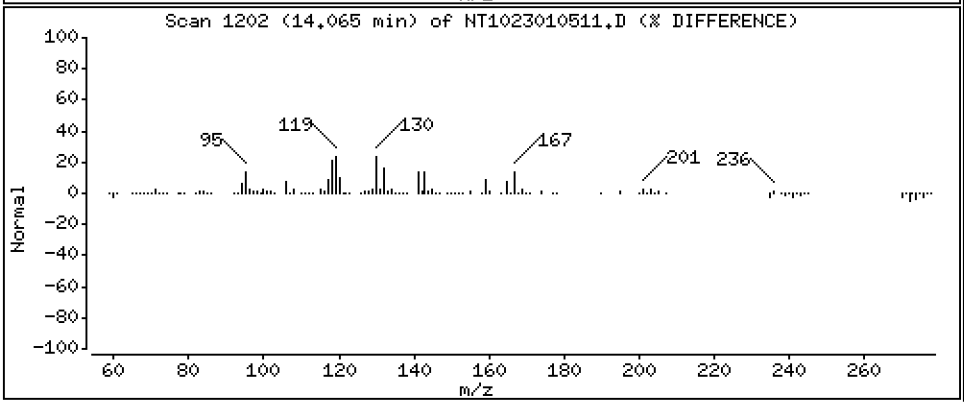
33 Hexachlorocyclopentadiene

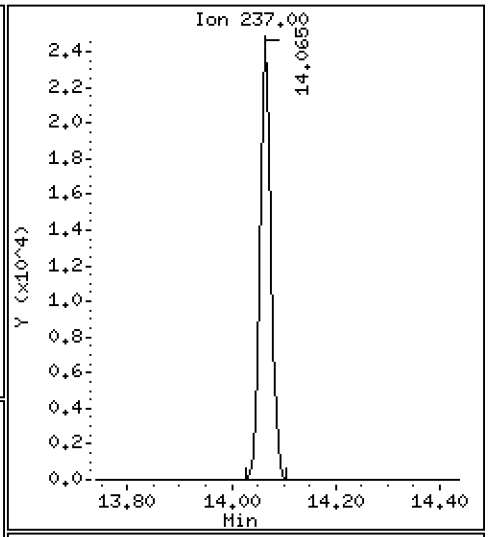
Concentration: 6.265 ug/mL

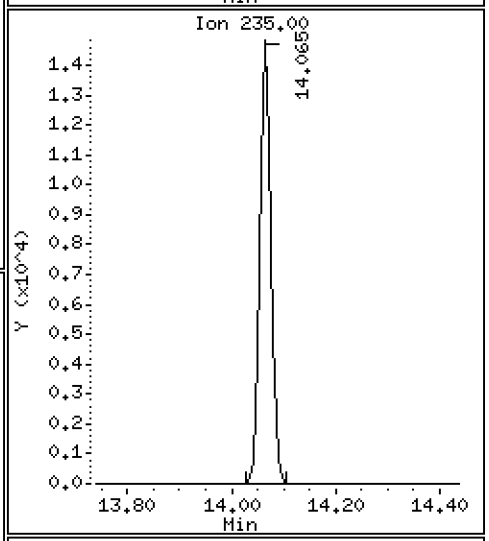


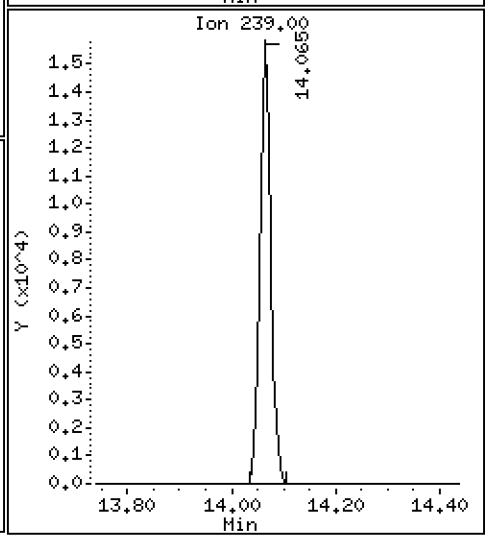












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

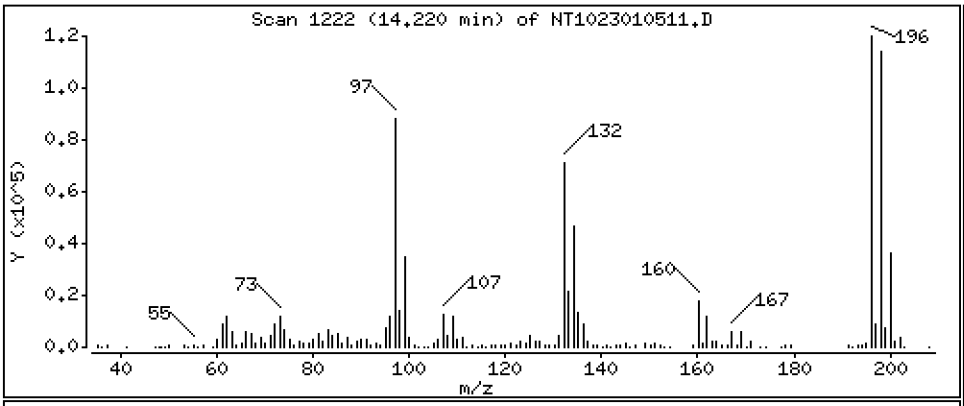
Operator: VTS

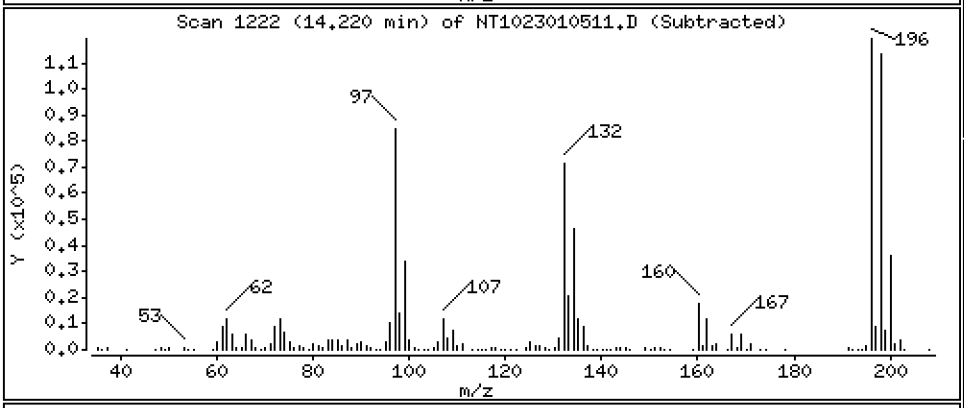
Column phase: ZB-5msi

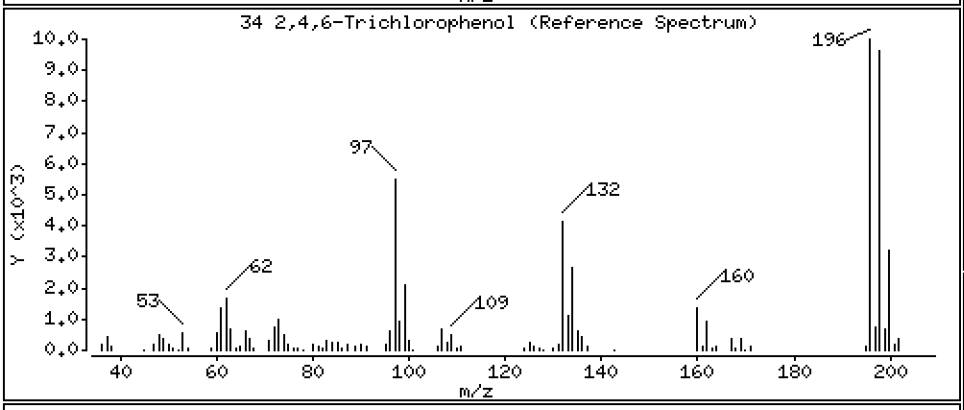
Column diameter: 0.25

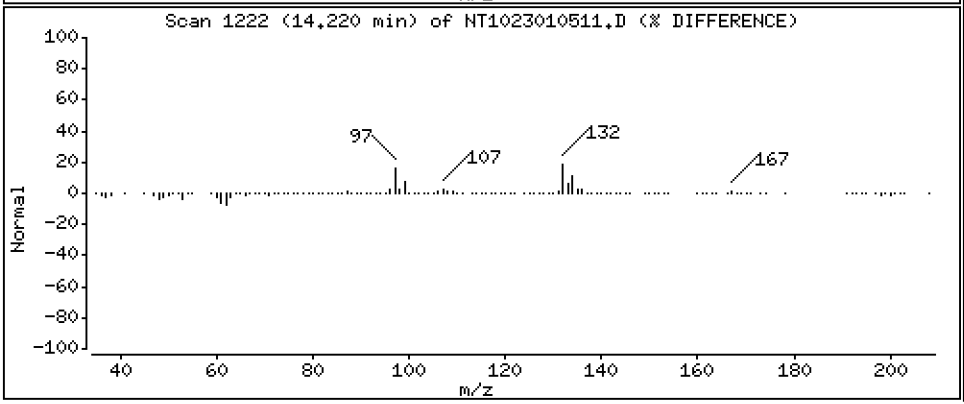
34 2,4,6-Trichlorophenol

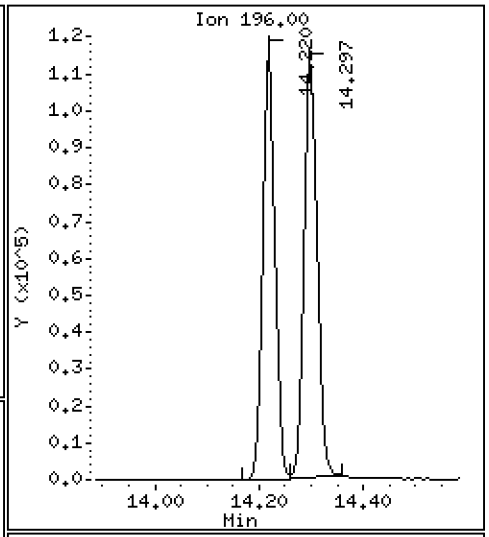
Concentration: 19.65 ug/mL

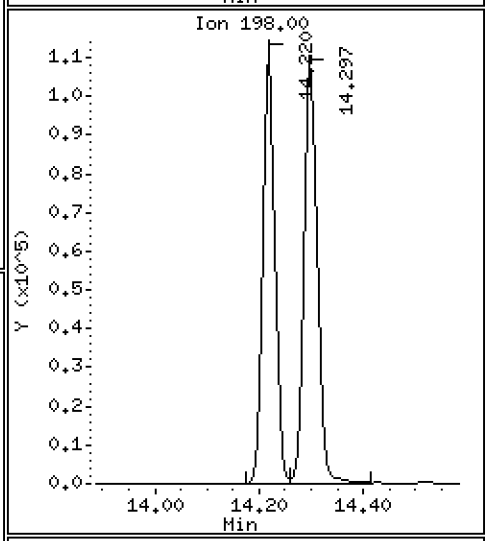


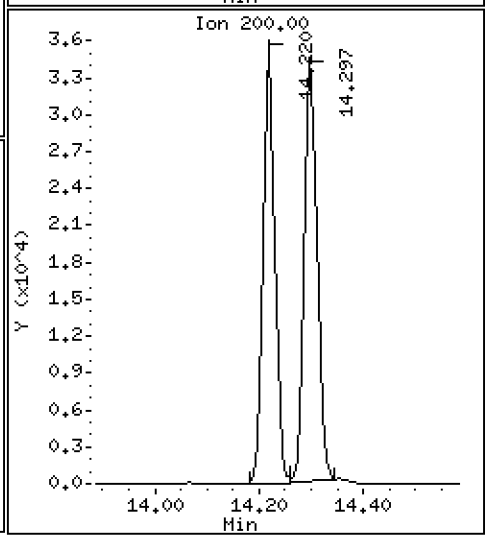












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

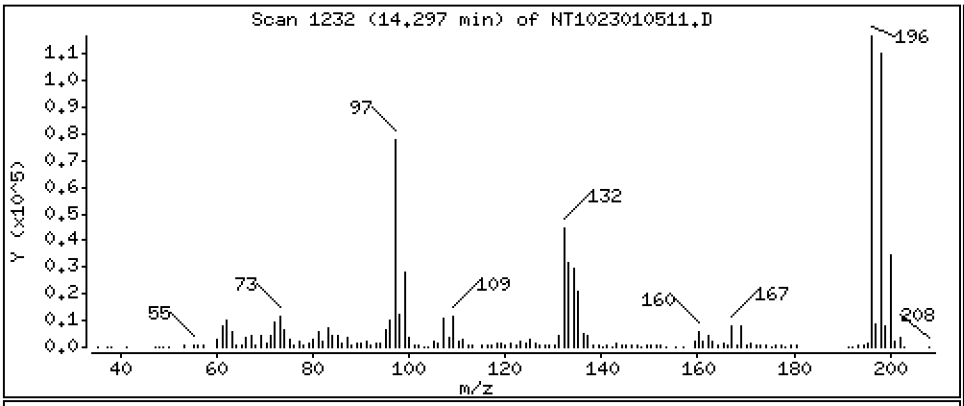
Operator: VTS

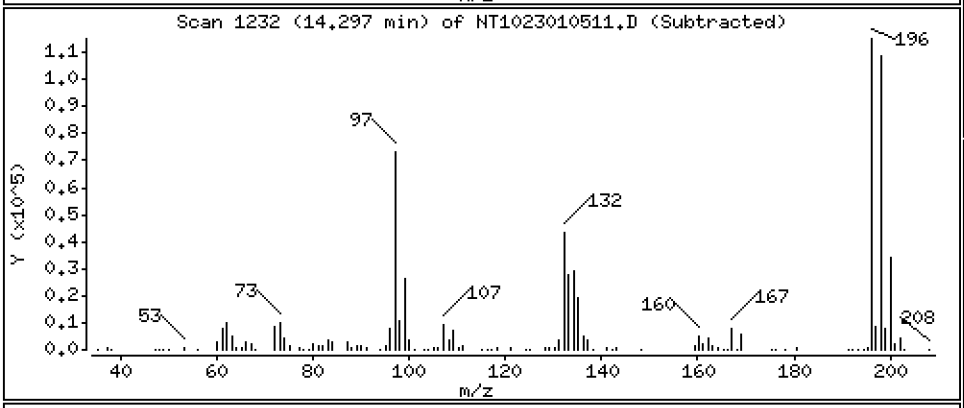
Column phase: ZB-5msi

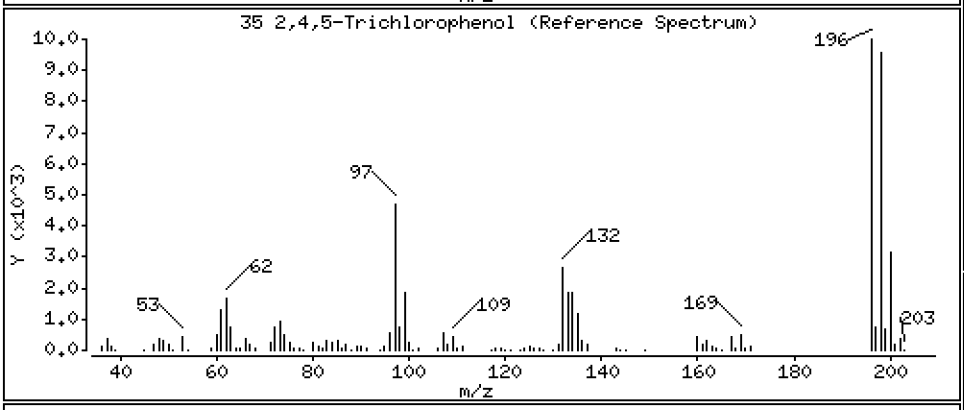
Column diameter: 0.25

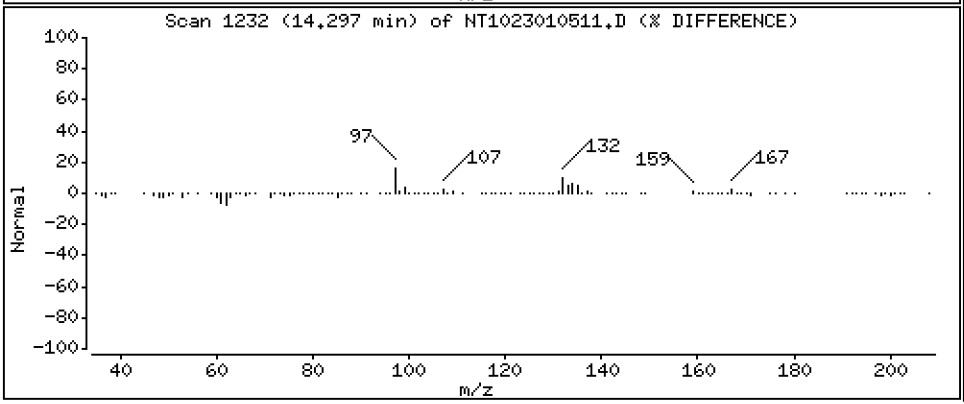
35 2,4,5-Trichlorophenol

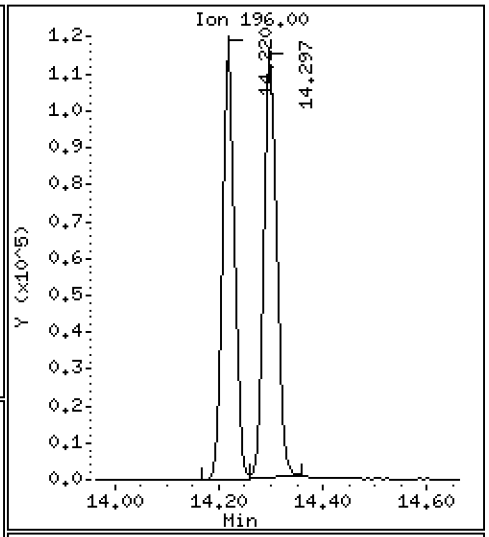
Concentration: 18.78 ug/mL

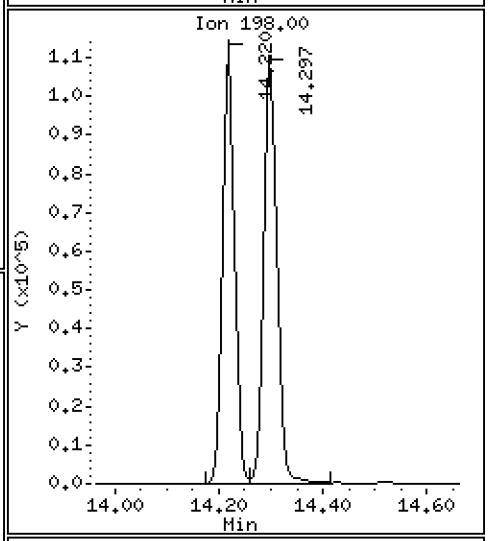


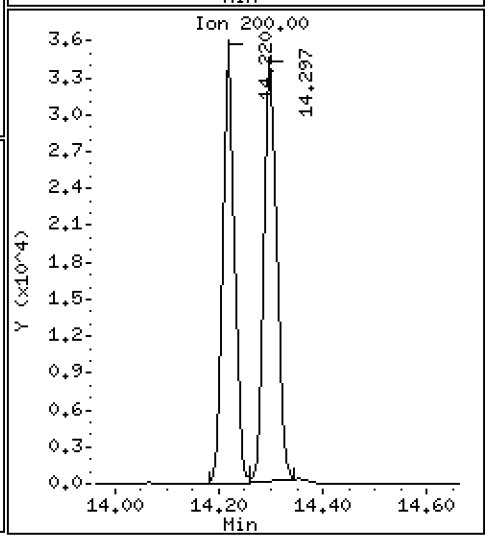












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

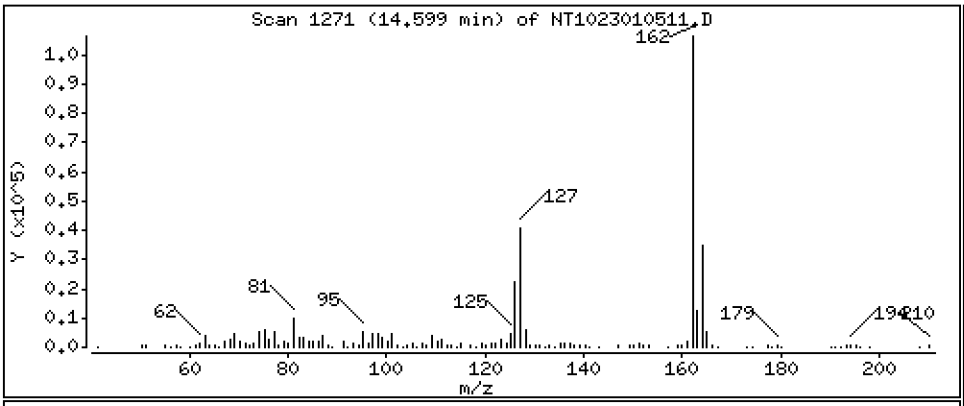
Operator: VTS

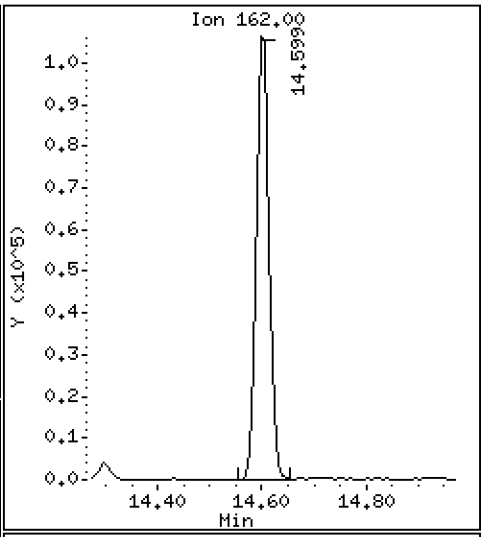
Column phase: ZB-5msi

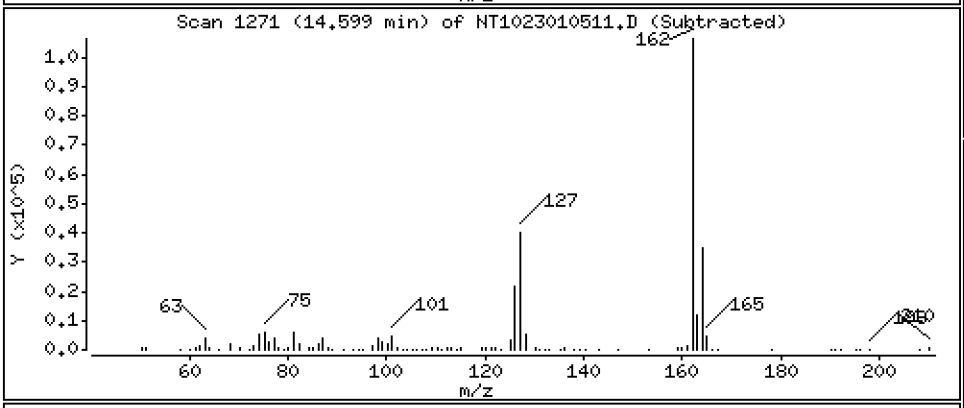
Column diameter: 0.25

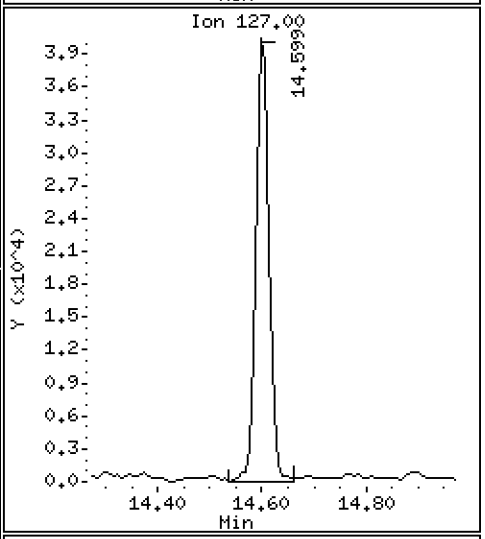
37 2-Chloronaphthalene

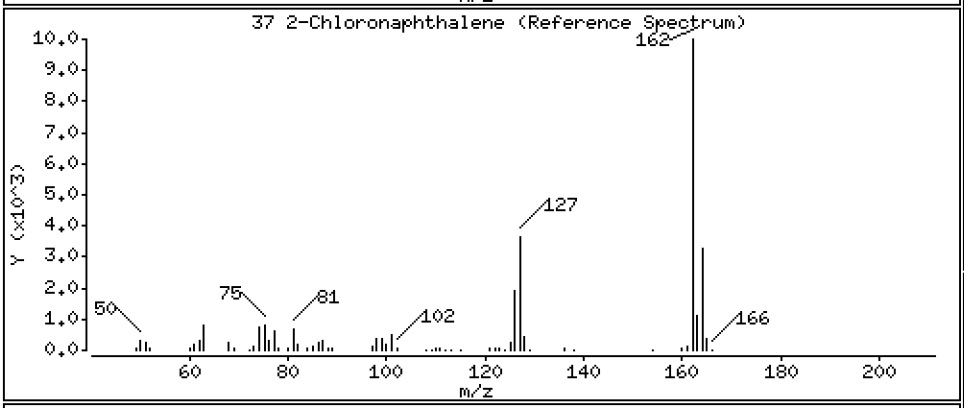
Concentration: 5.194 ug/mL

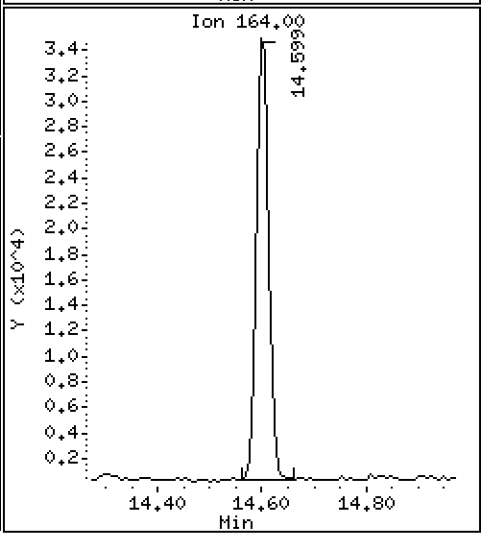


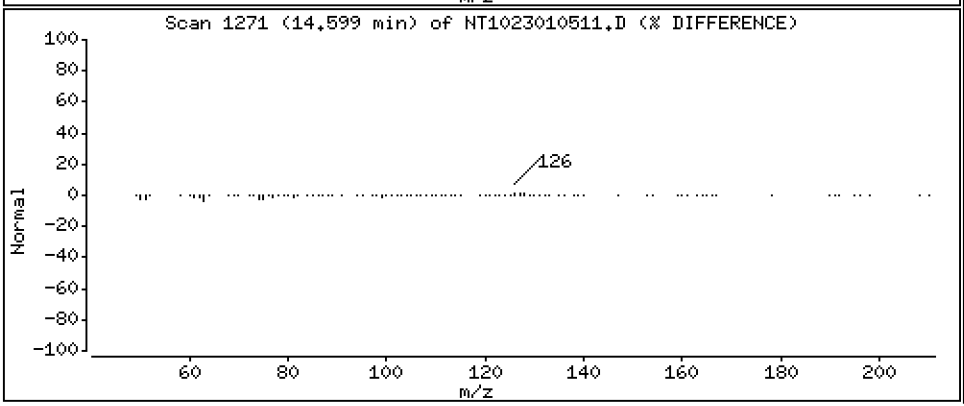












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

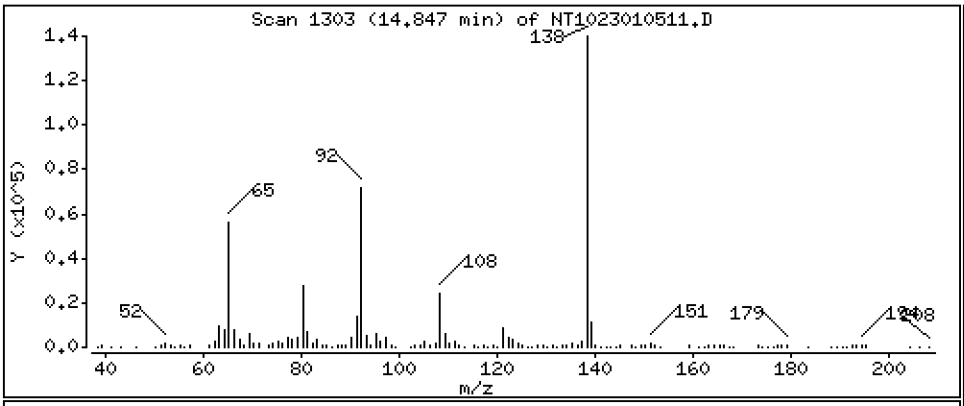
Operator: VTS

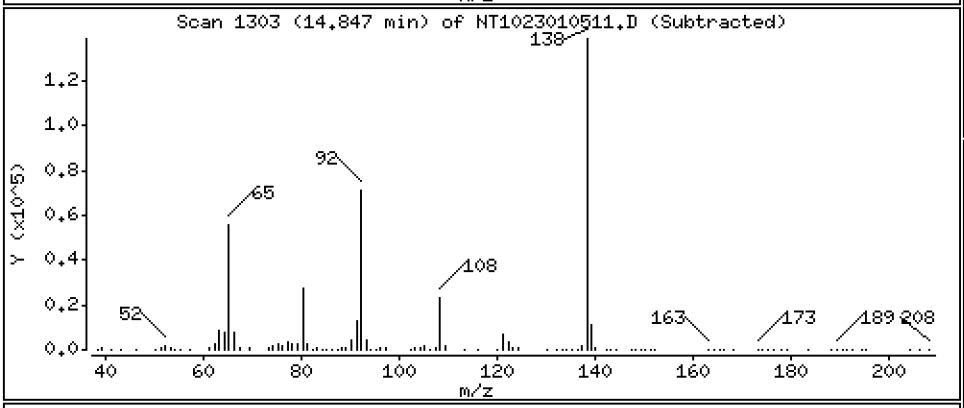
Column phase: ZB-5msi

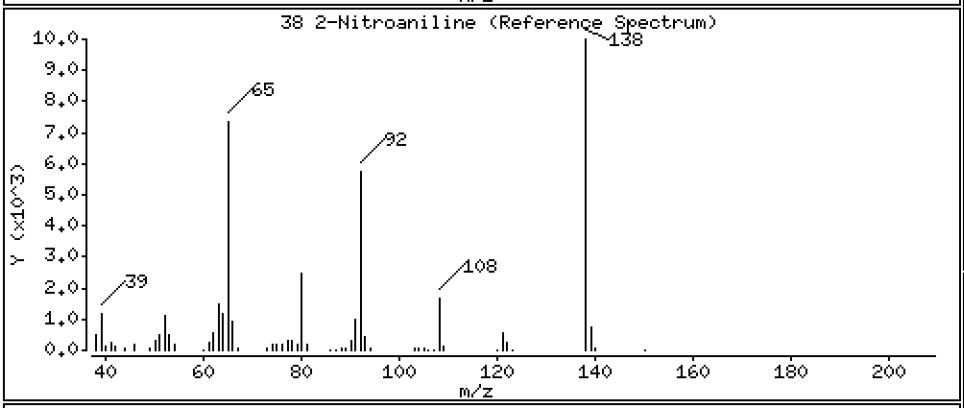
Column diameter: 0.25

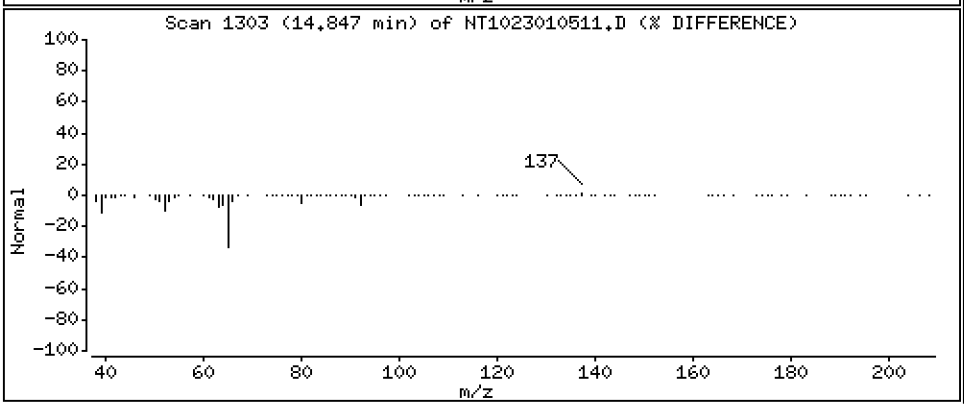
38 2-Nitroaniline

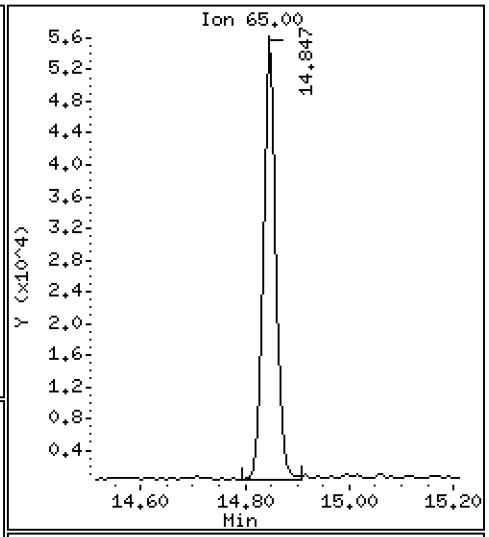
Concentration: 18.01 ug/mL

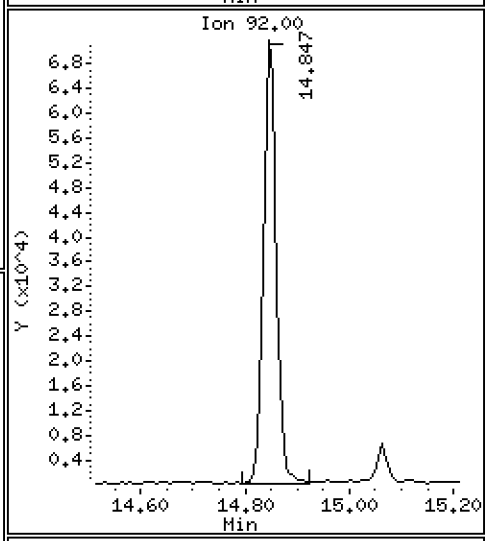


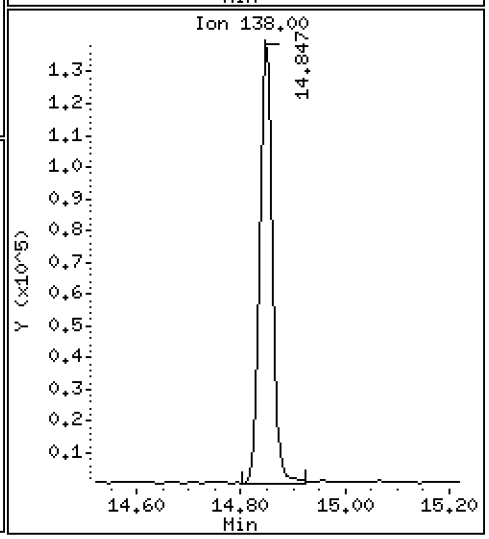












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

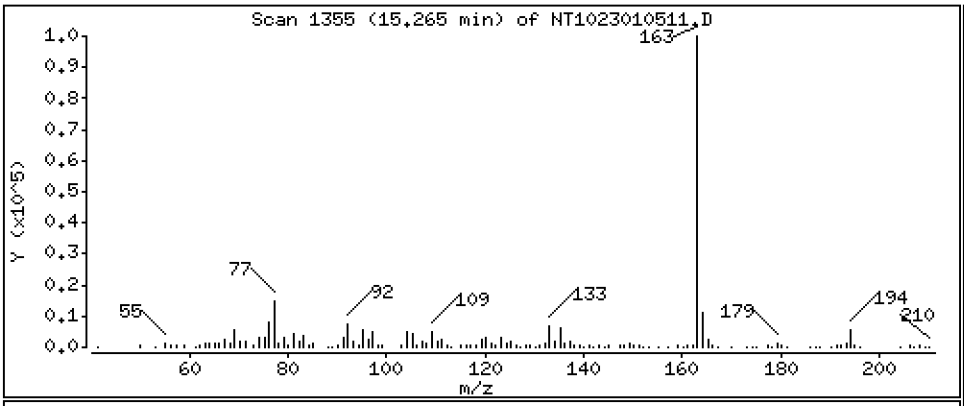
Operator: VTS

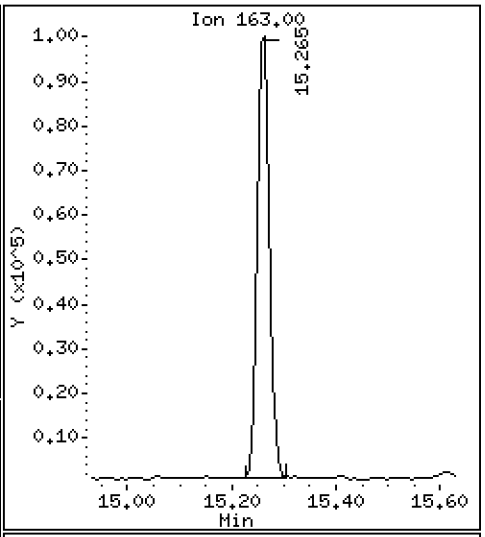
Column phase: ZB-5msi

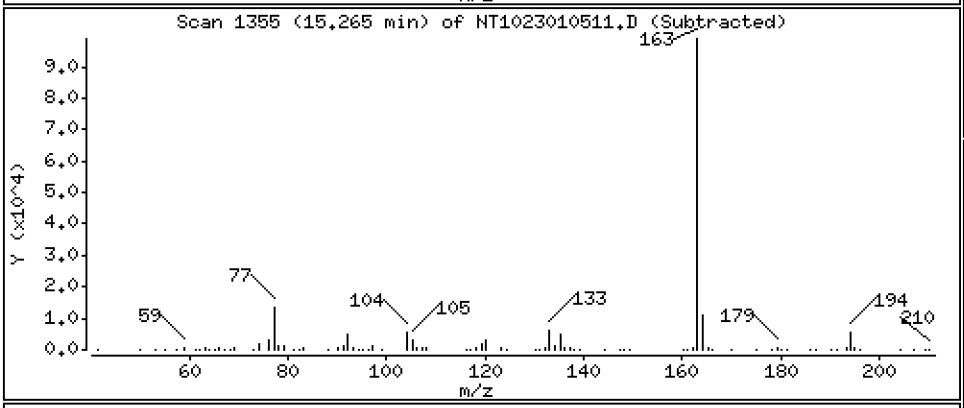
Column diameter: 0.25

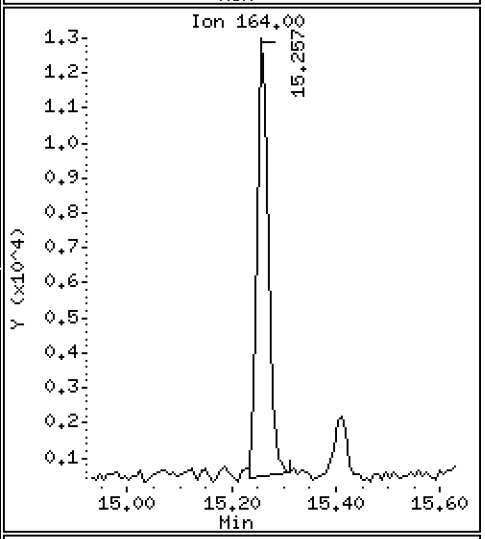
39 Dimethylphthalate

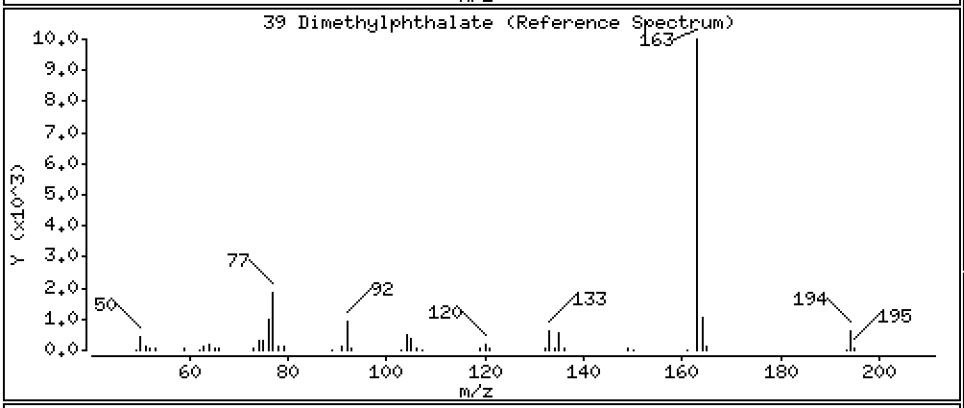
Concentration: 5.228 ug/mL

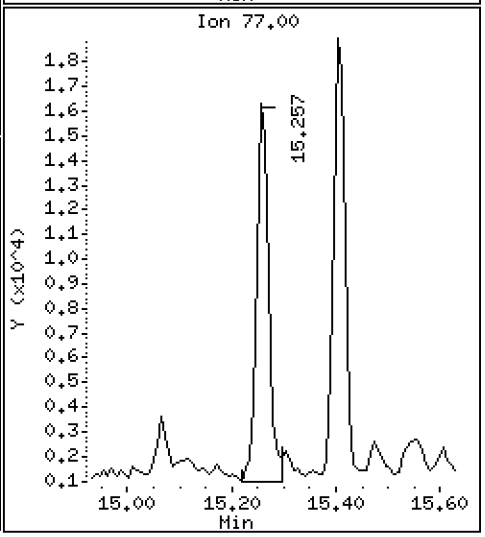


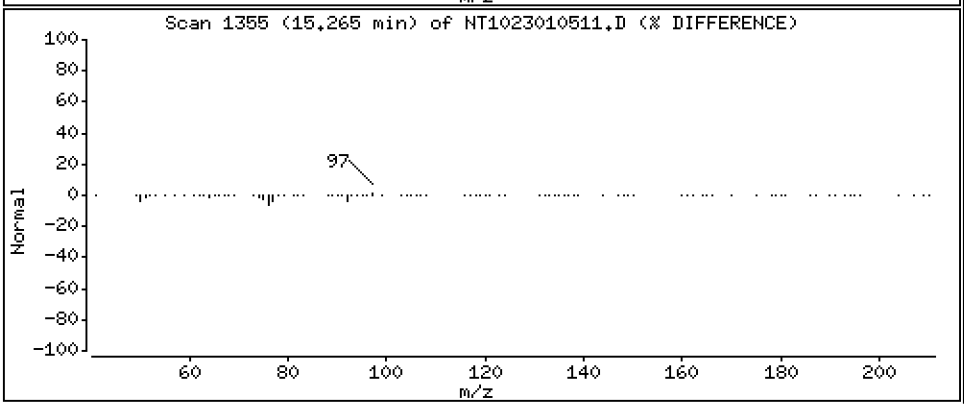












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

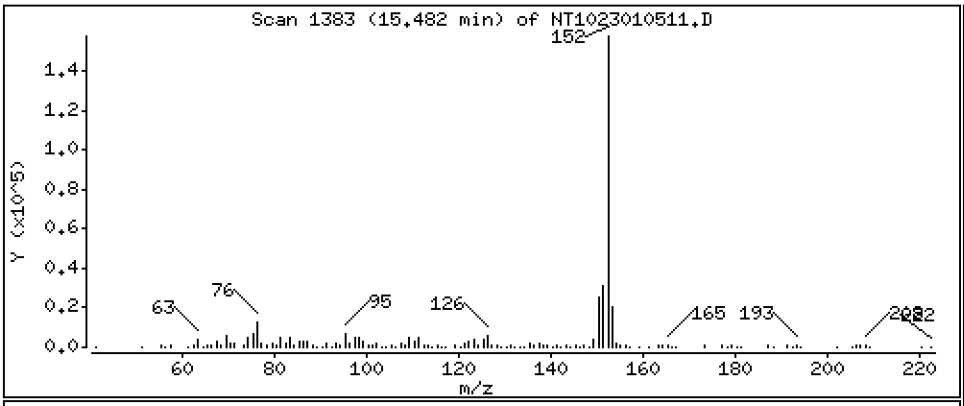
Operator: VTS

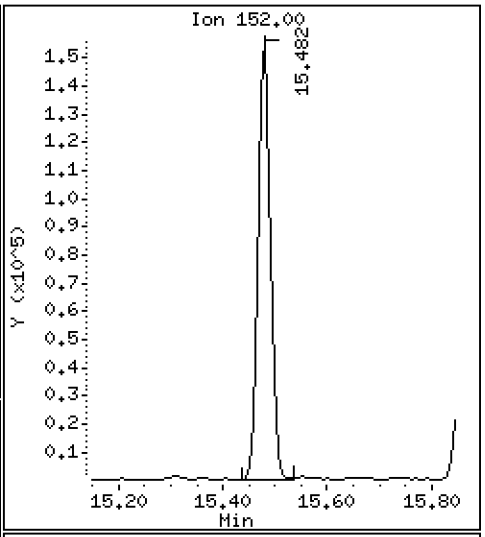
Column phase: ZB-5msi

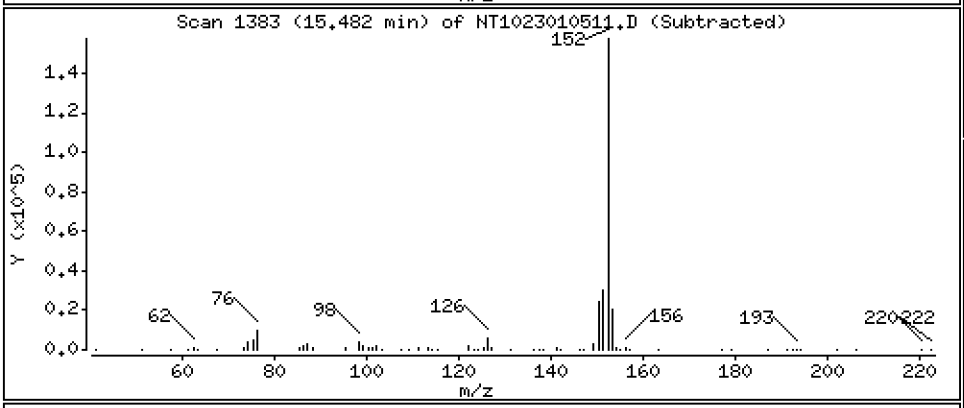
Column diameter: 0.25

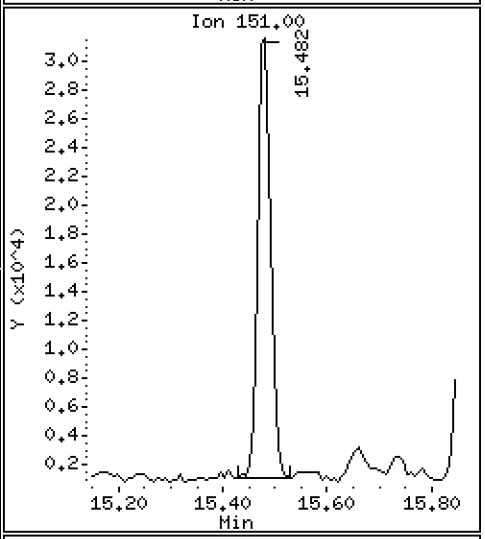
40 Acenaphthylene

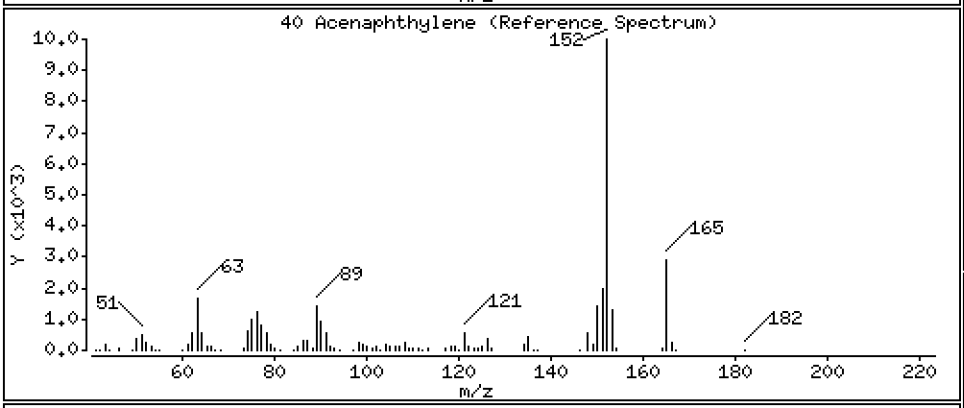
Concentration: 5.005 ug/mL

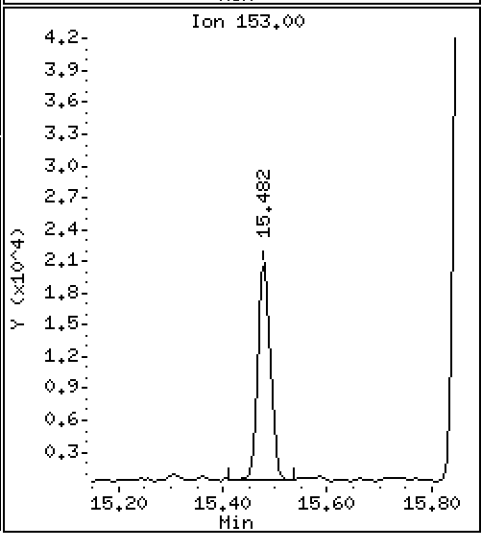


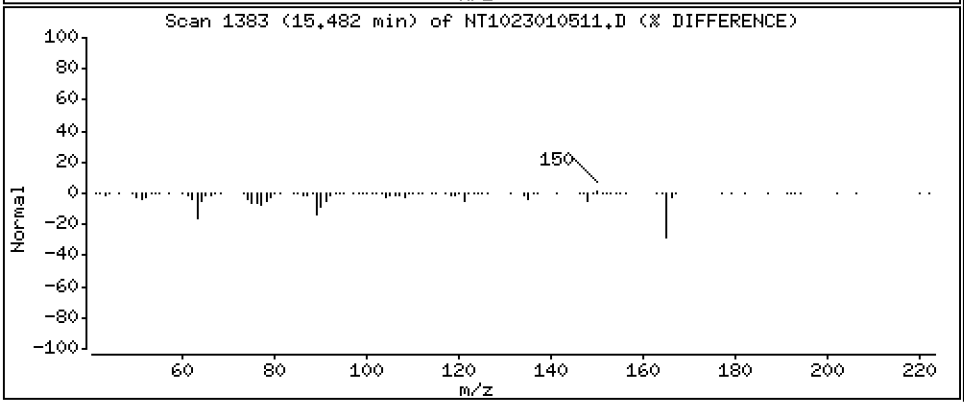












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

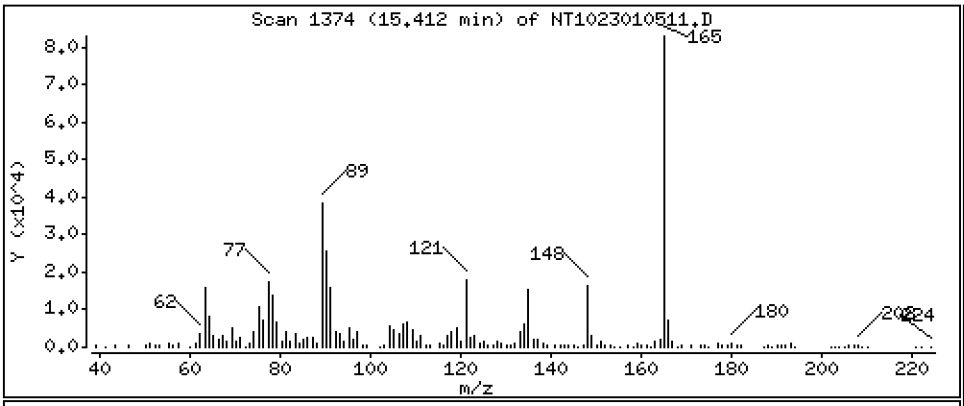
Operator: VTS

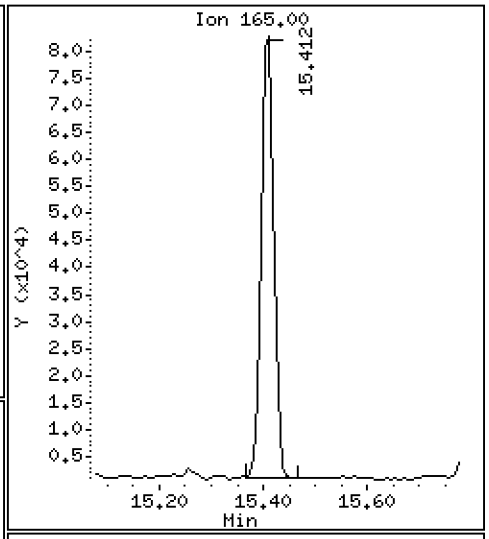
Column phase: ZB-5msi

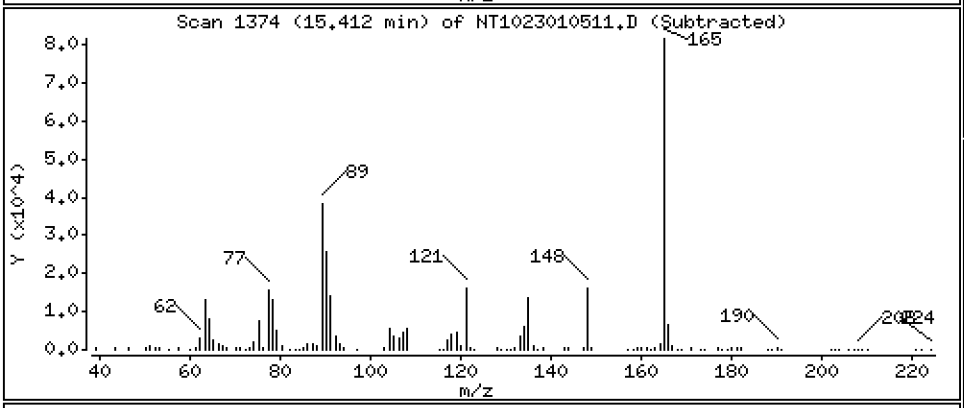
Column diameter: 0.25

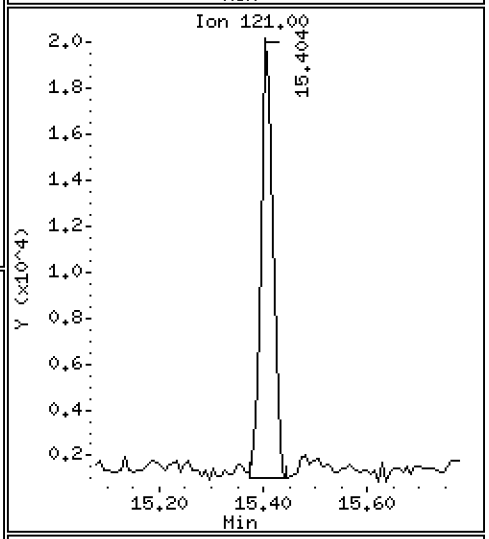
41 2,6-Dinitrotoluene

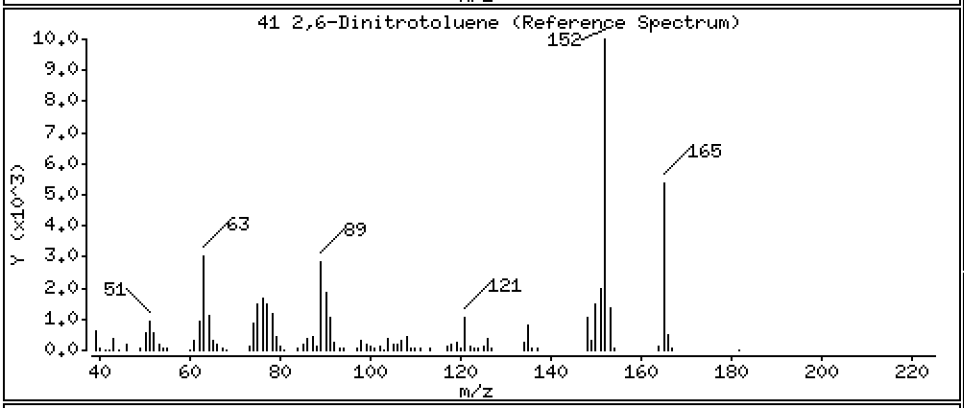
Concentration: 18.89 ug/mL

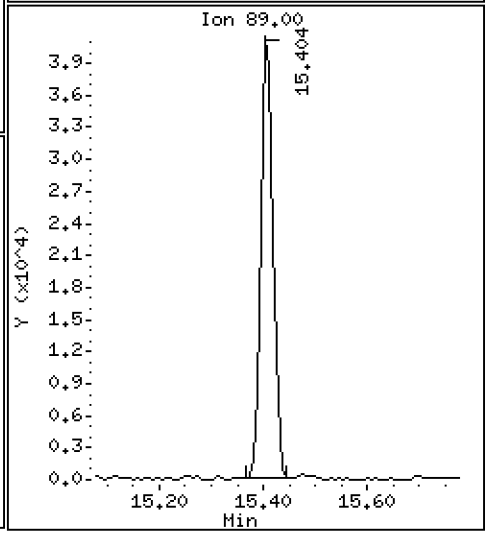


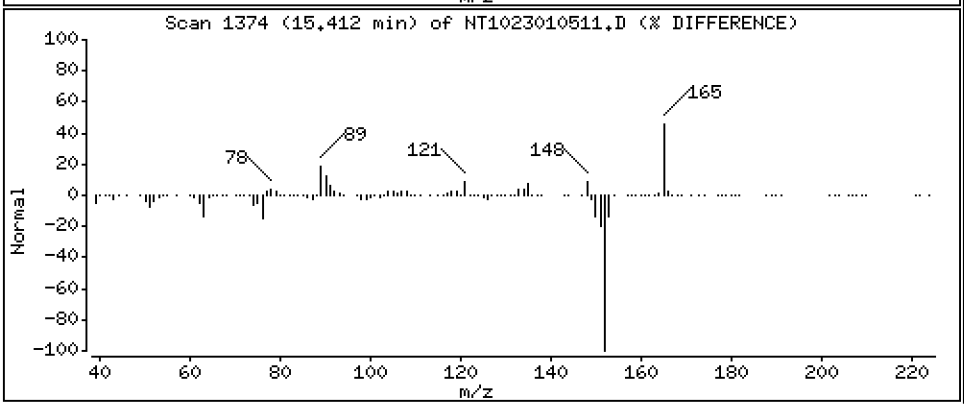












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

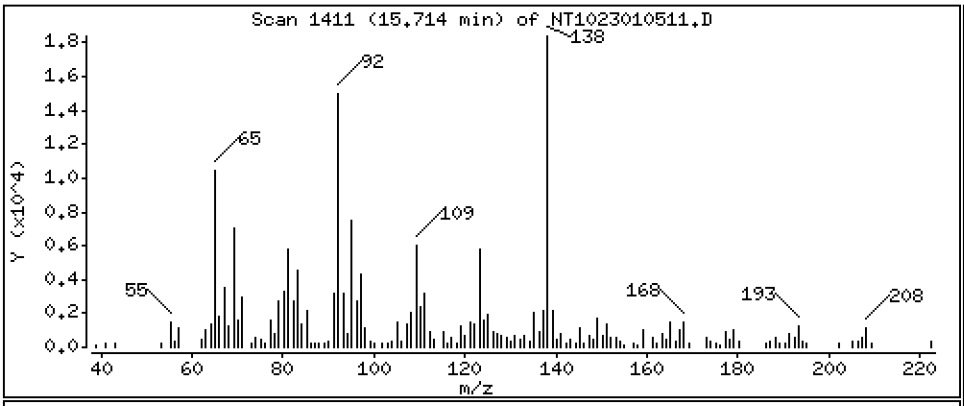
Operator: VTS

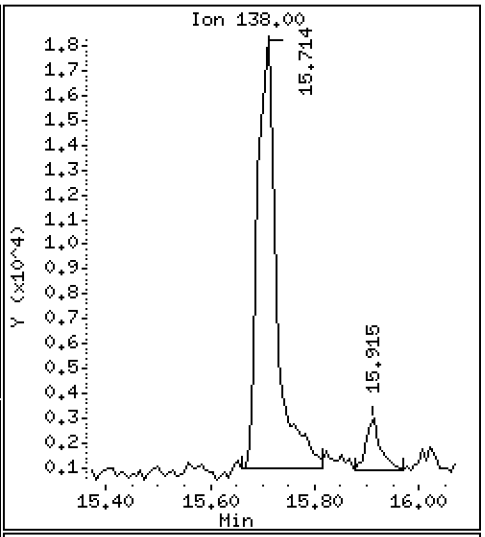
Column phase: ZB-5msi

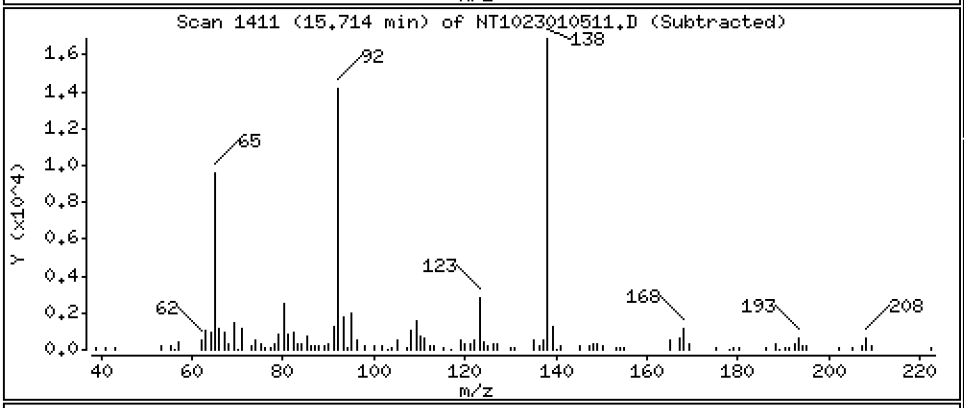
Column diameter: 0.25

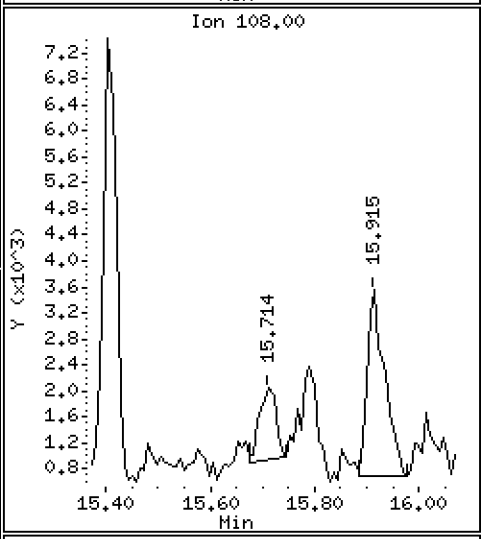
43 3-Nitroaniline

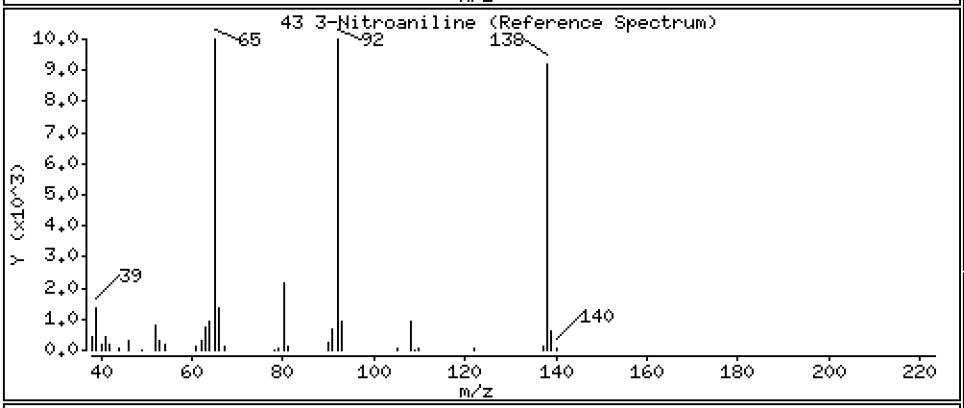
Concentration: 6.416 ug/mL

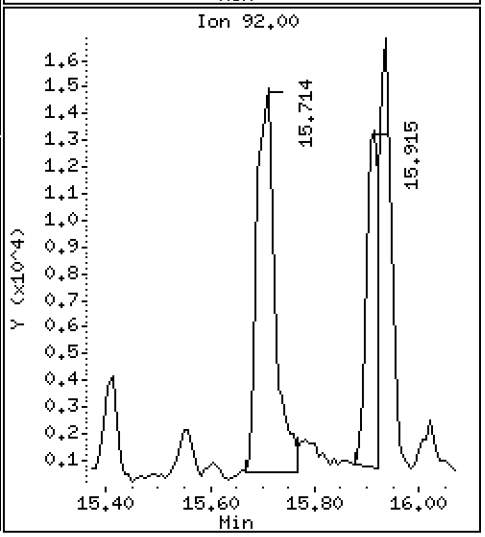


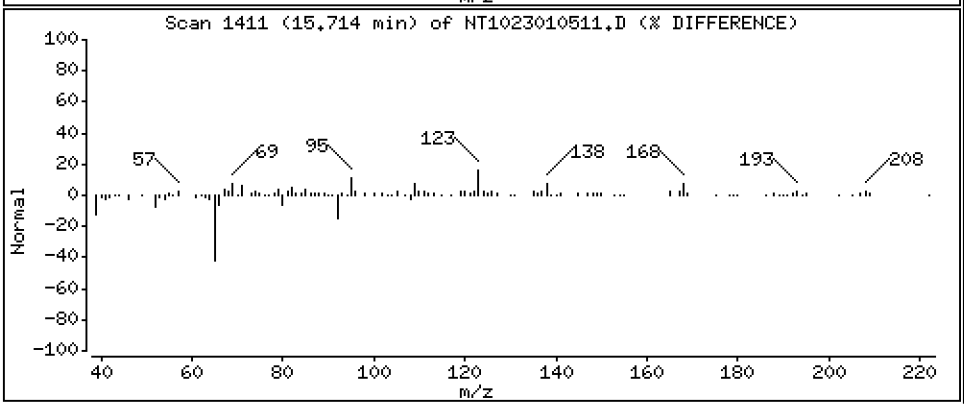












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

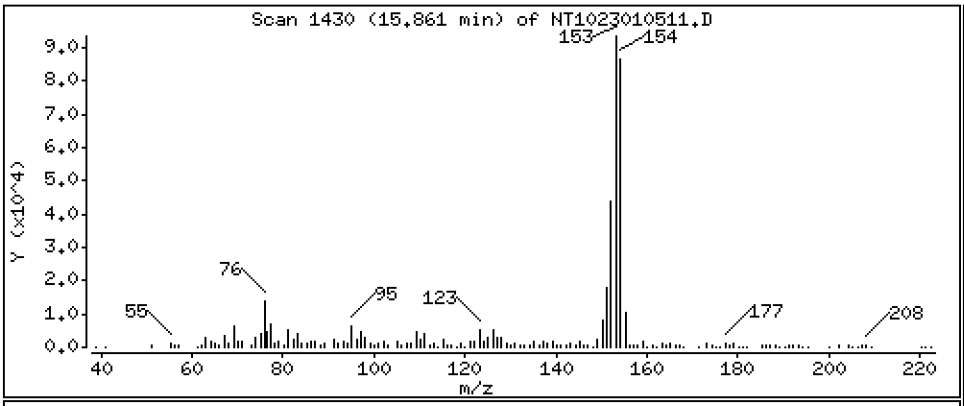
Operator: VTS

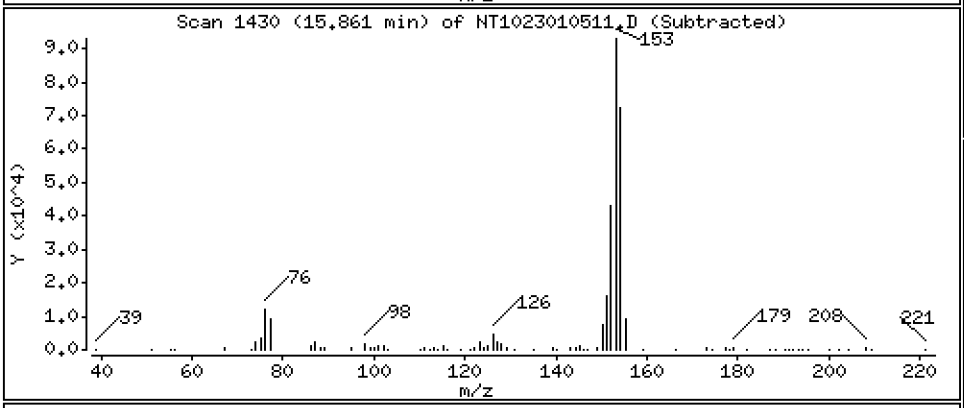
Column phase: ZB-5msi

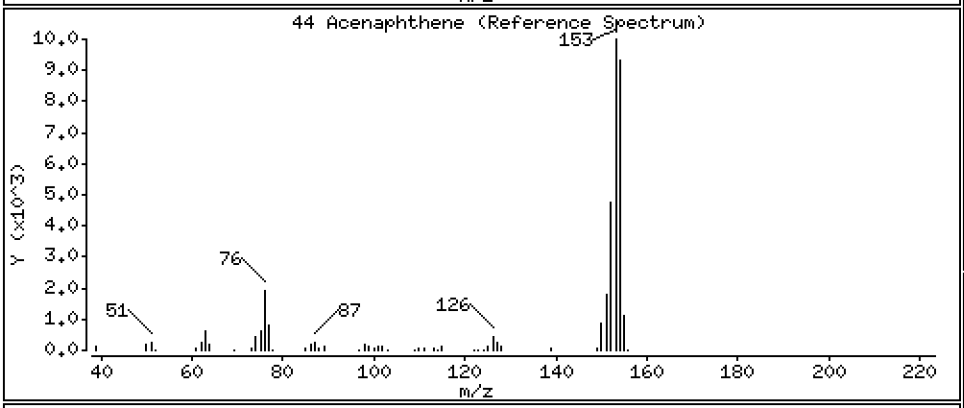
Column diameter: 0.25

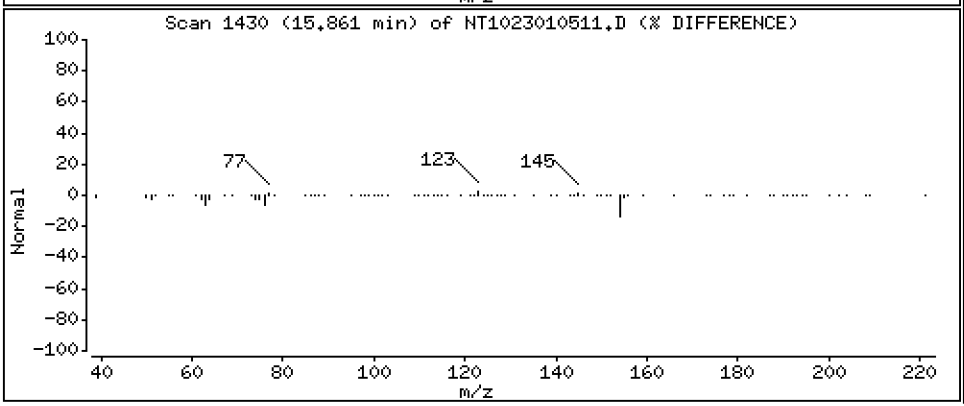
44 Acenaphthene

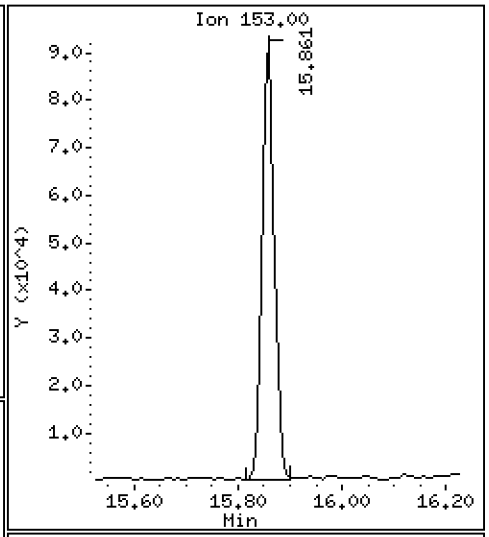
Concentration: 5.278 ug/mL

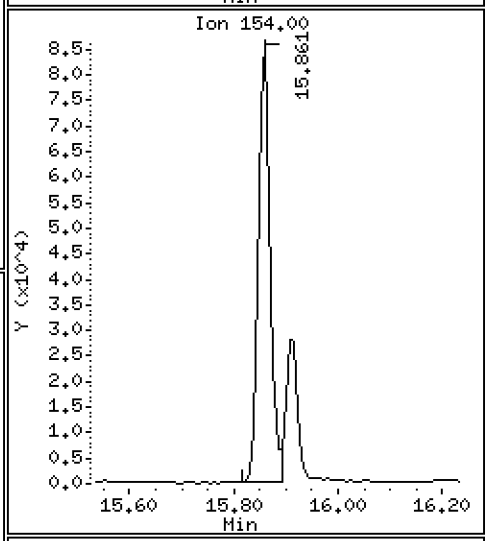


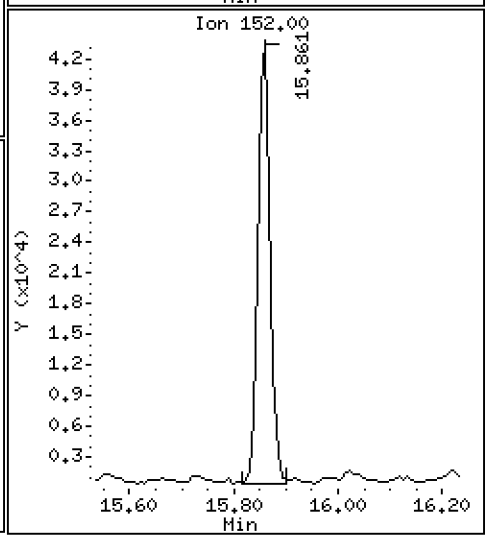












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

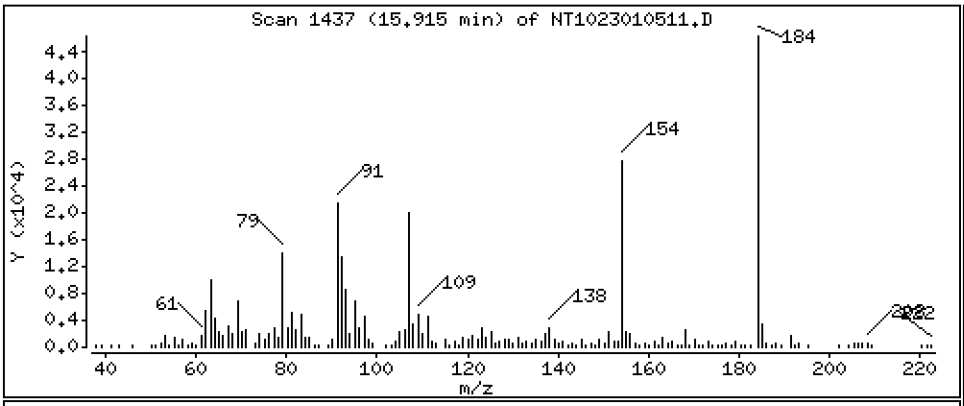
Operator: VTS

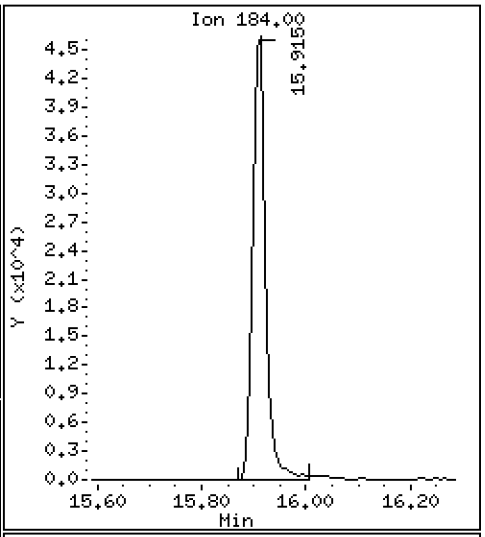
Column phase: ZB-5msi

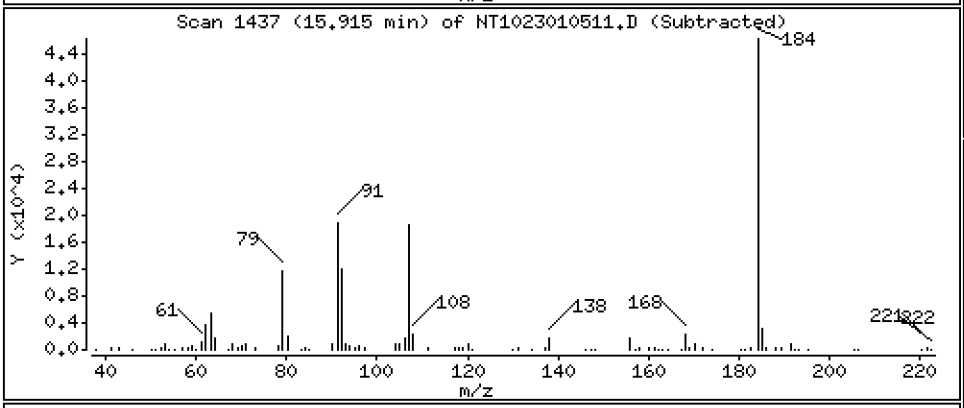
Column diameter: 0.25

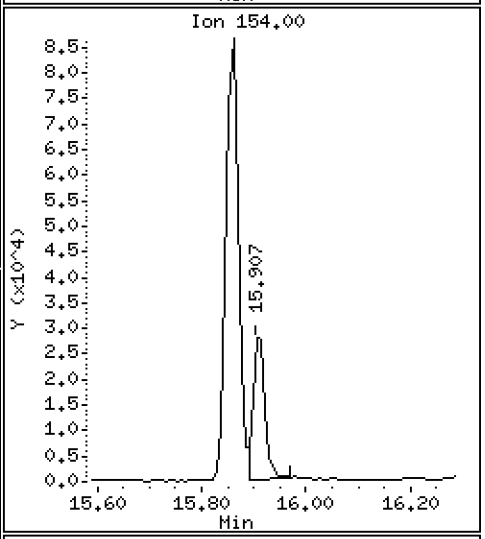
45 2,4-Dinitrophenol

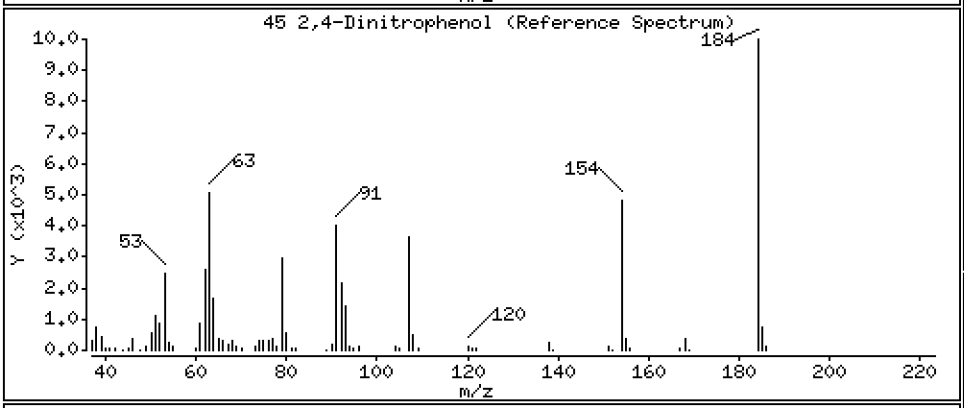
Concentration: 16.60 ug/mL

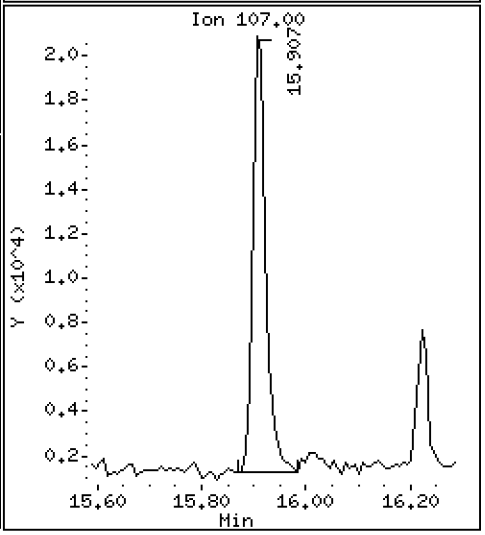


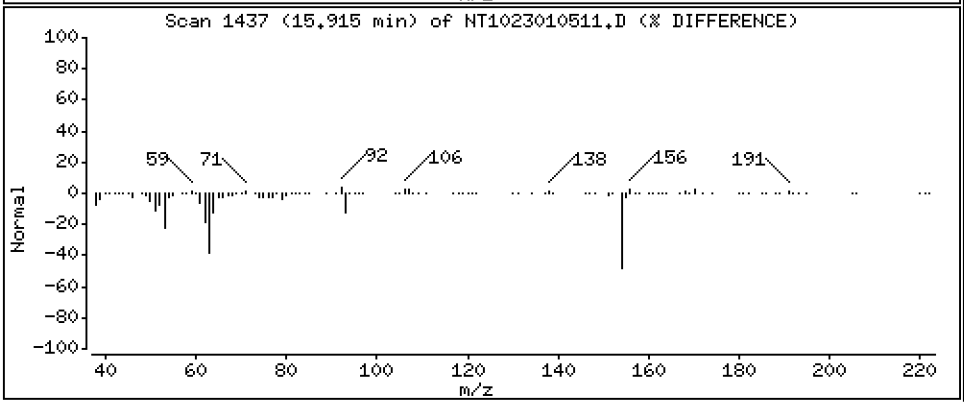












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

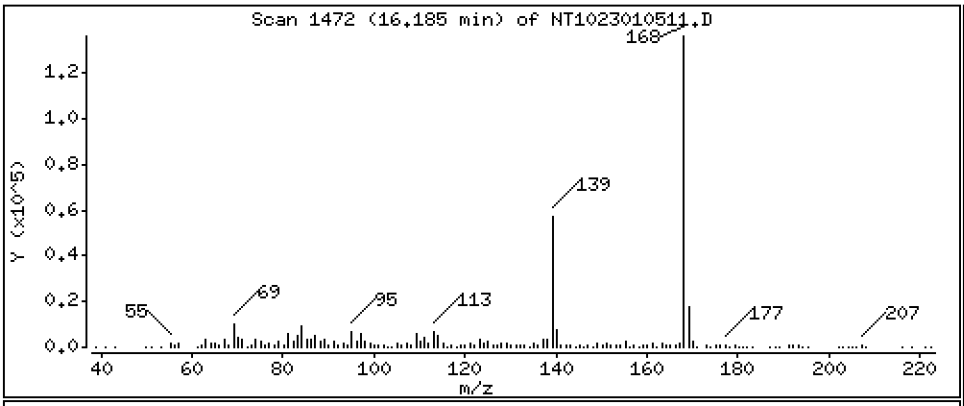
Operator: VTS

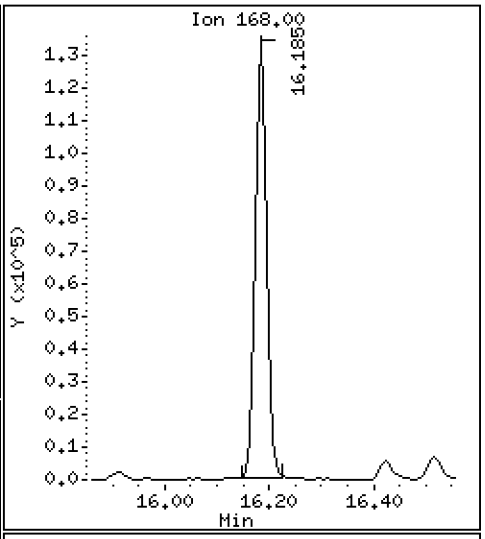
Column phase: ZB-5msi

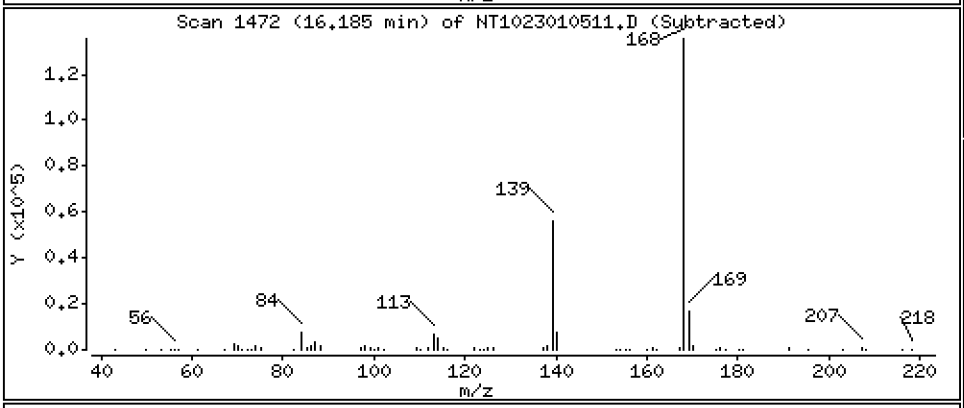
Column diameter: 0.25

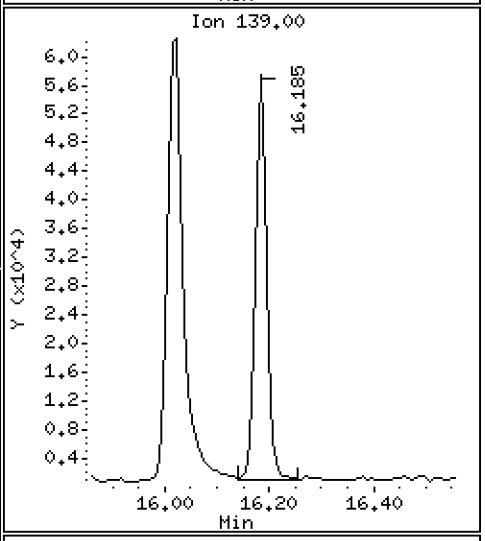
46 Dibenzofuran

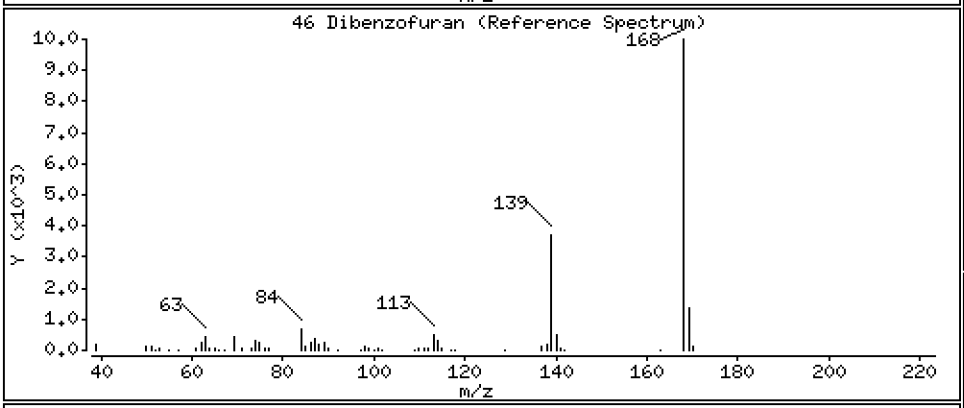
Concentration: 4.988 ug/mL

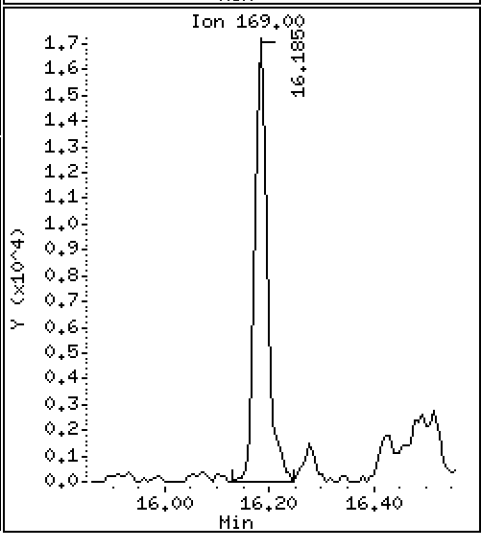


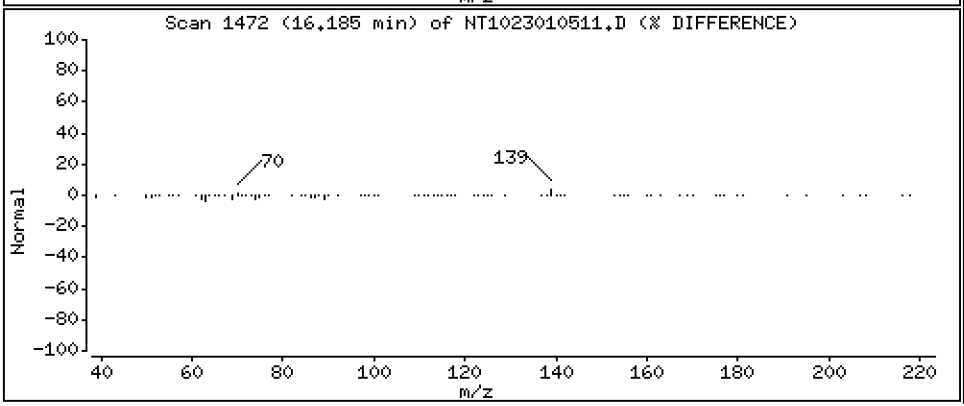












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

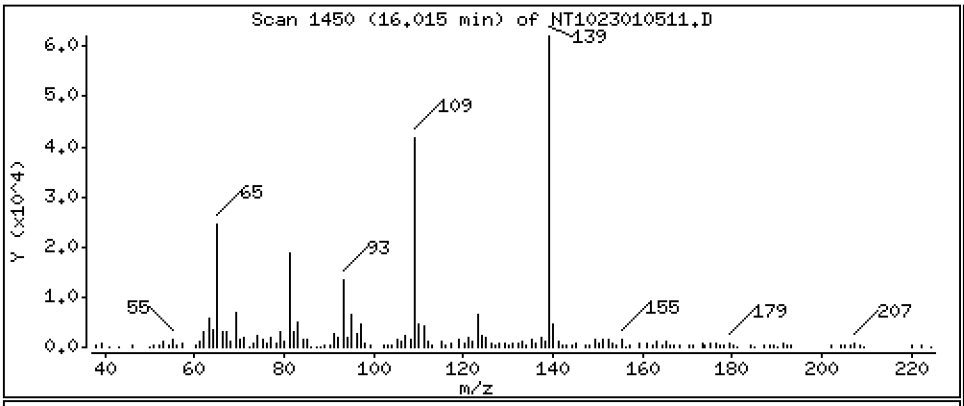
Operator: VTS

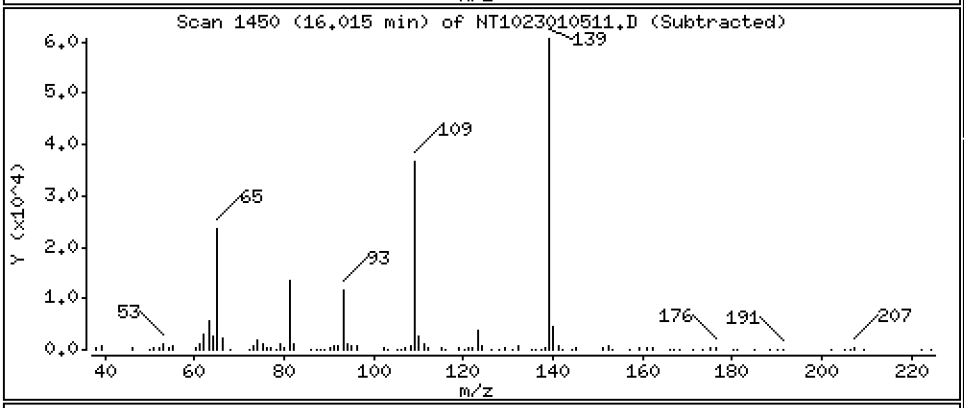
Column phase: ZB-5msi

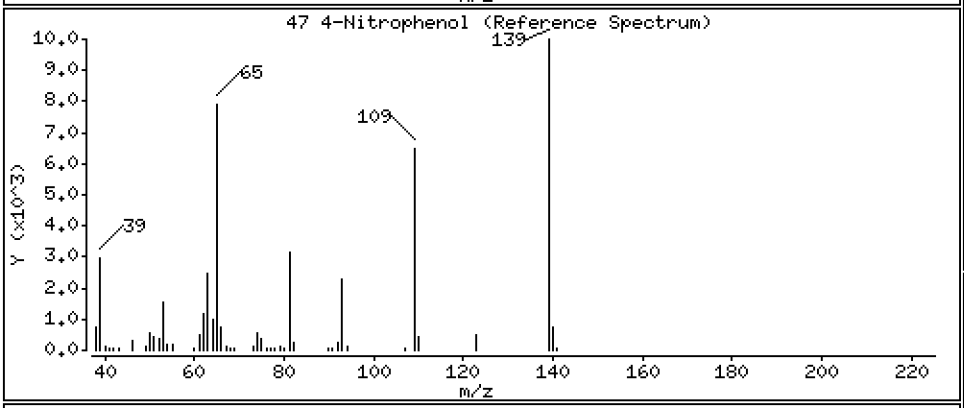
Column diameter: 0.25

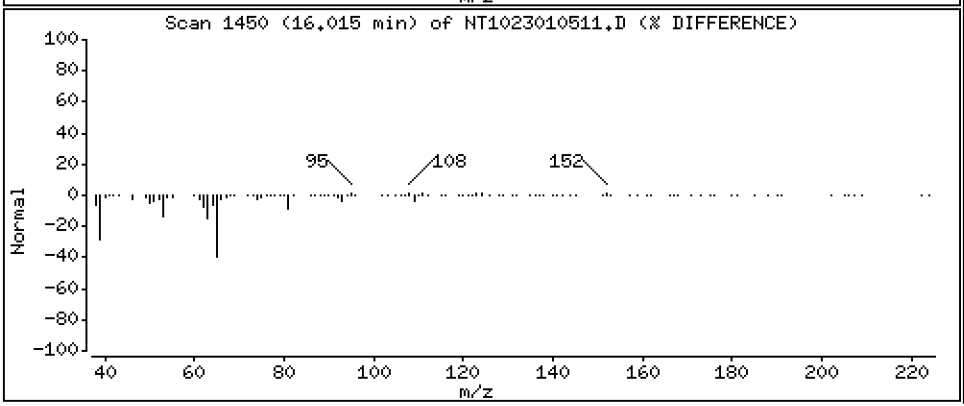
47 4-Nitrophenol

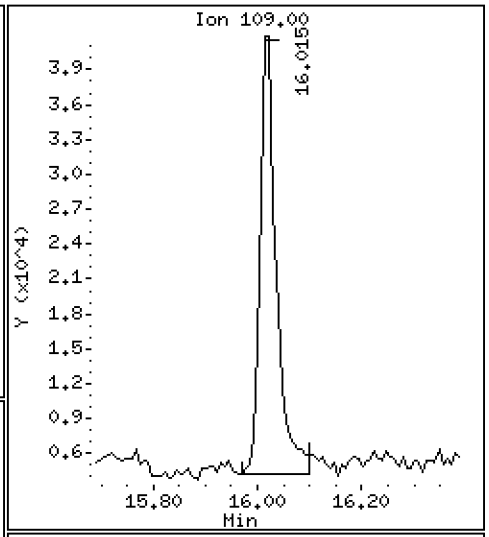
Concentration: 19.14 ug/mL

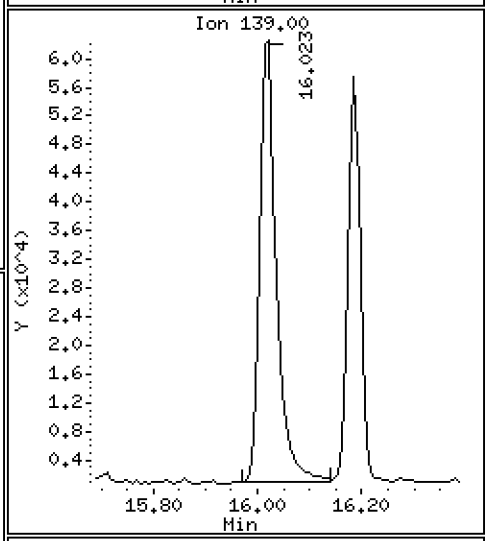


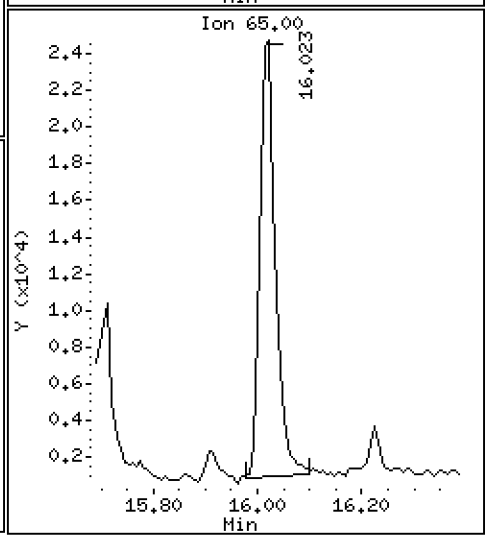












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

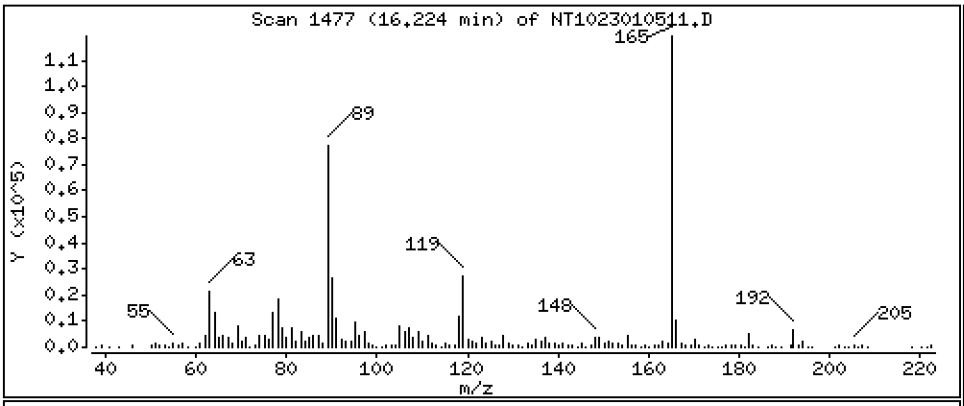
Operator: VTS

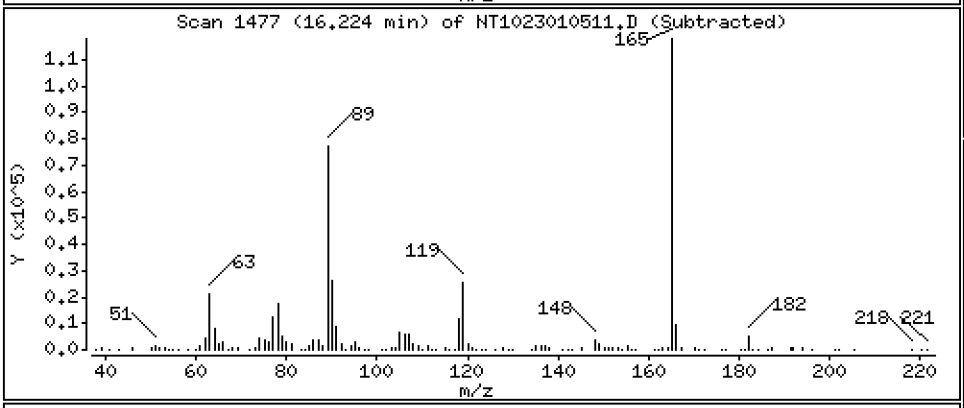
Column phase: ZB-5msi

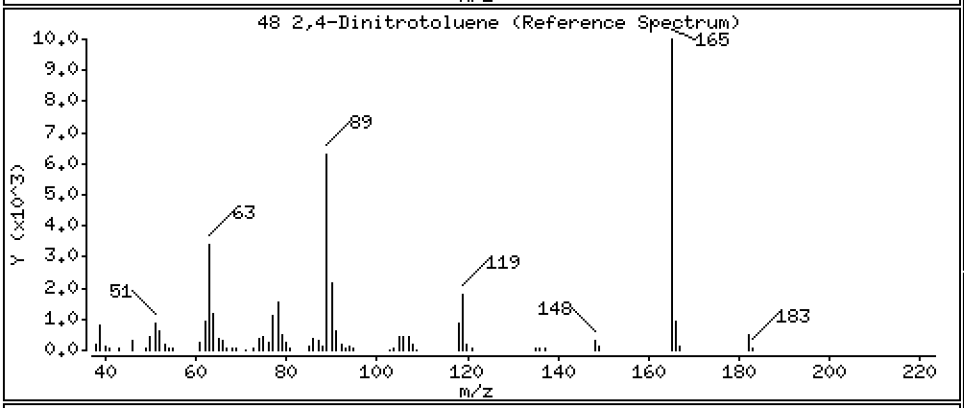
Column diameter: 0.25

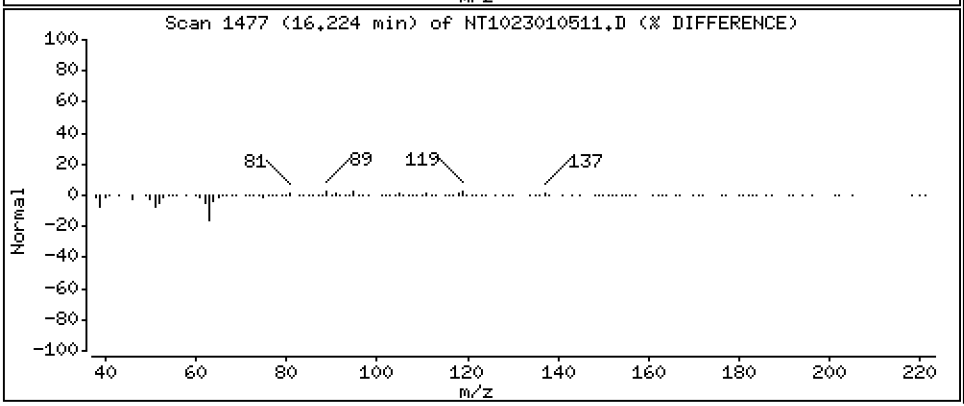
48 2,4-Dinitrotoluene

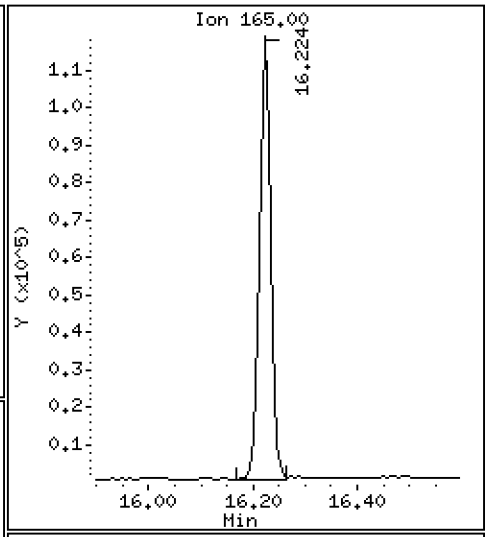
Concentration: 18.92 ug/mL

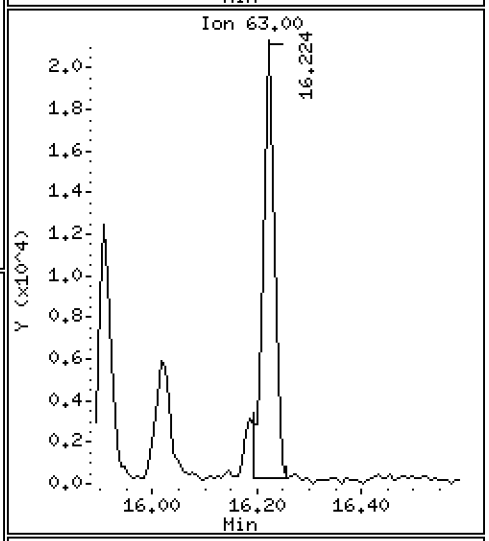


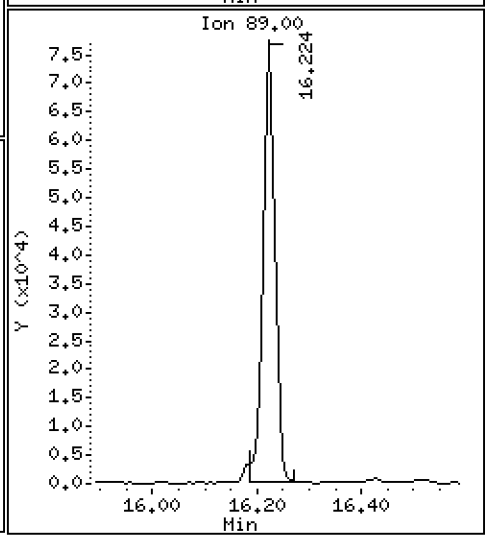












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

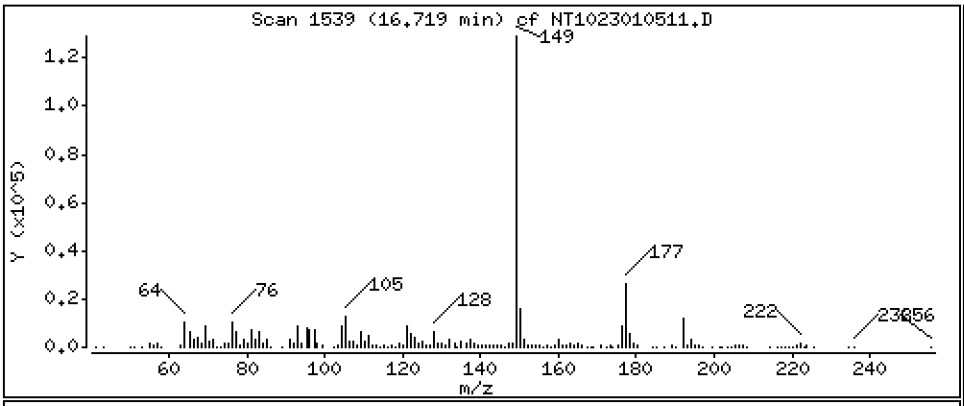
Operator: VTS

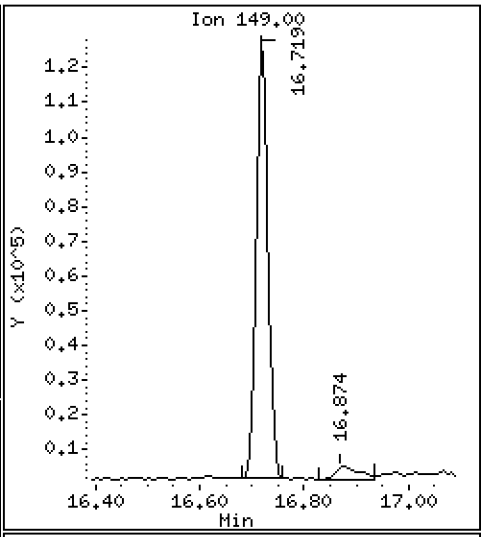
Column phase: ZB-5msi

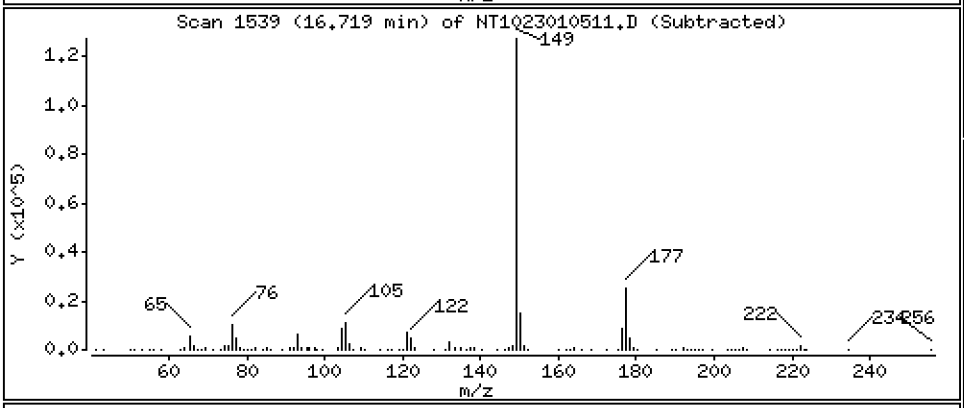
Column diameter: 0.25

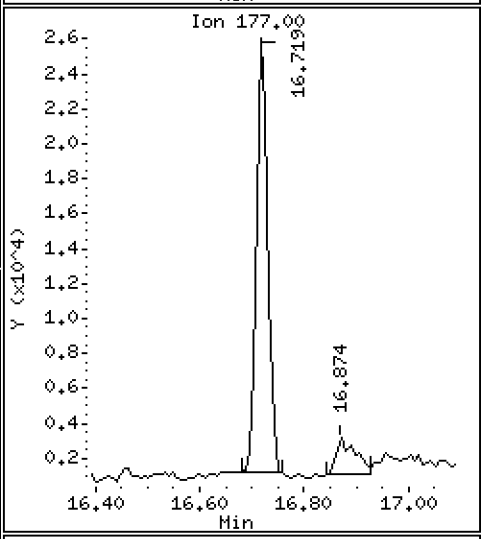
50 Diethylphthalate

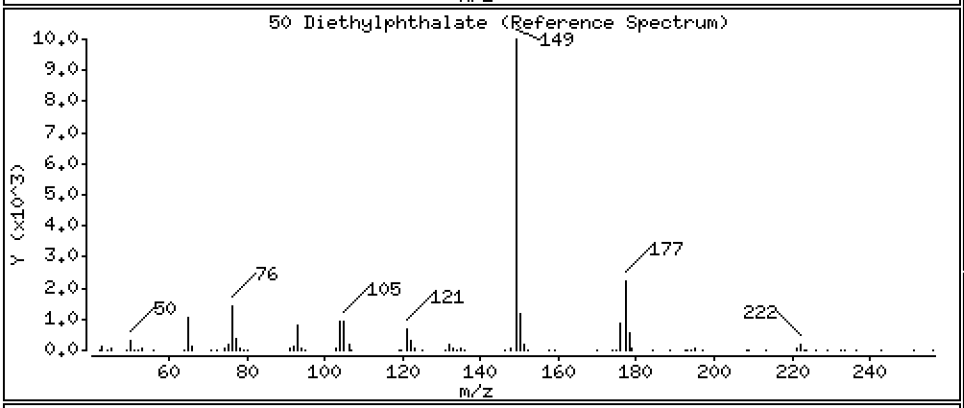
Concentration: 5.874 ug/mL

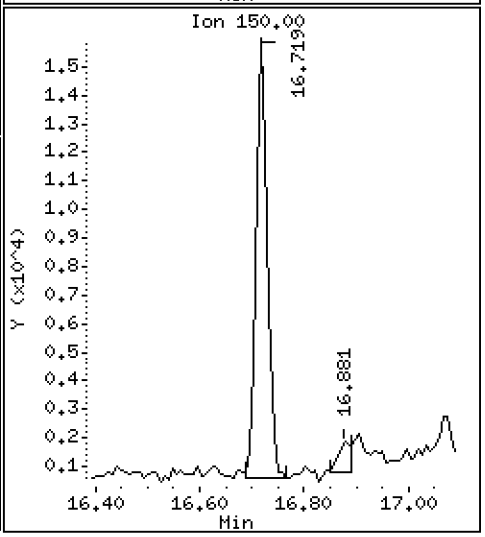


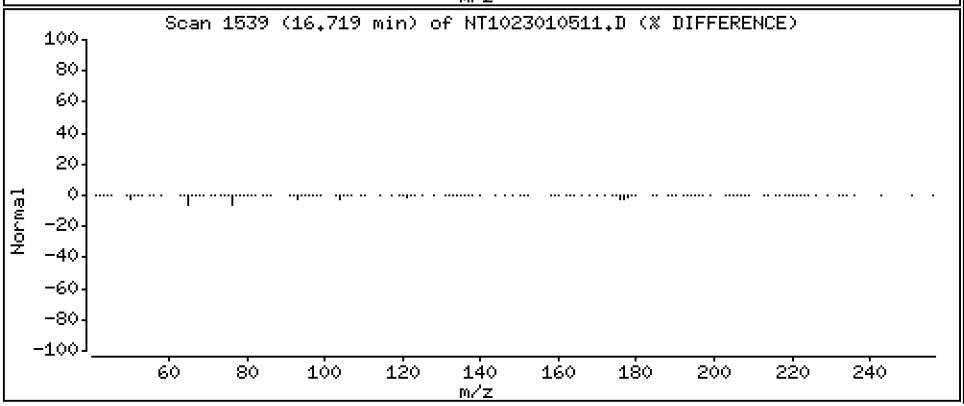












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

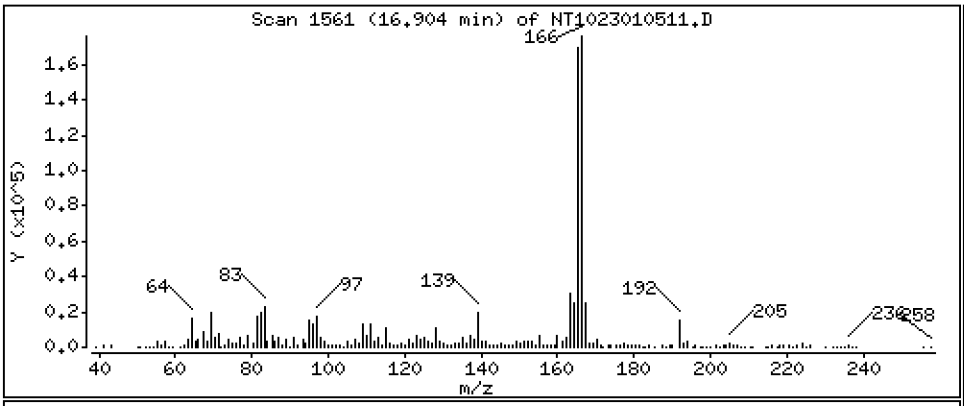
Operator: VTS

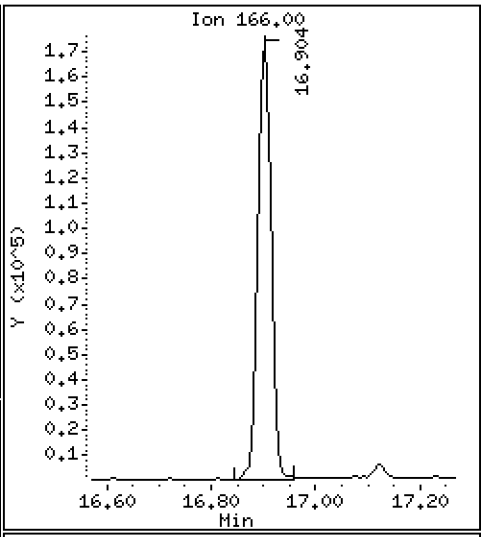
Column phase: ZB-5msi

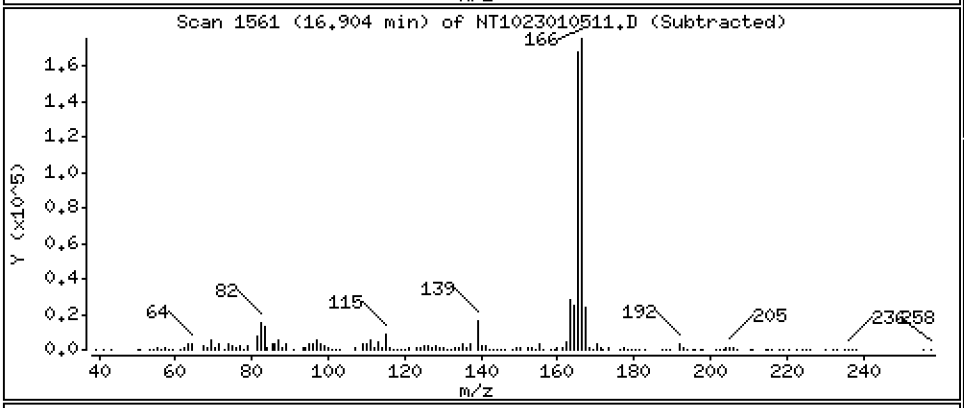
Column diameter: 0.25

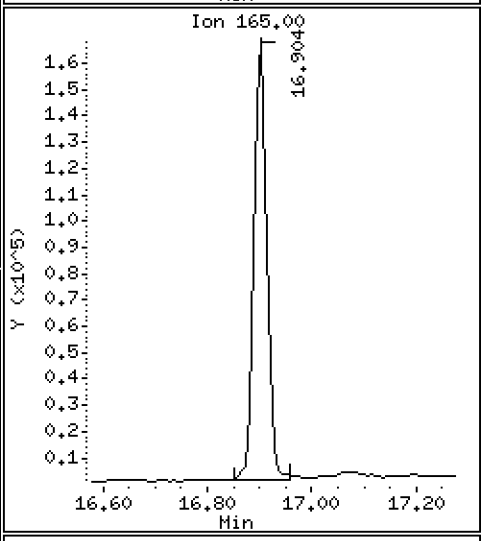
49 Fluorene

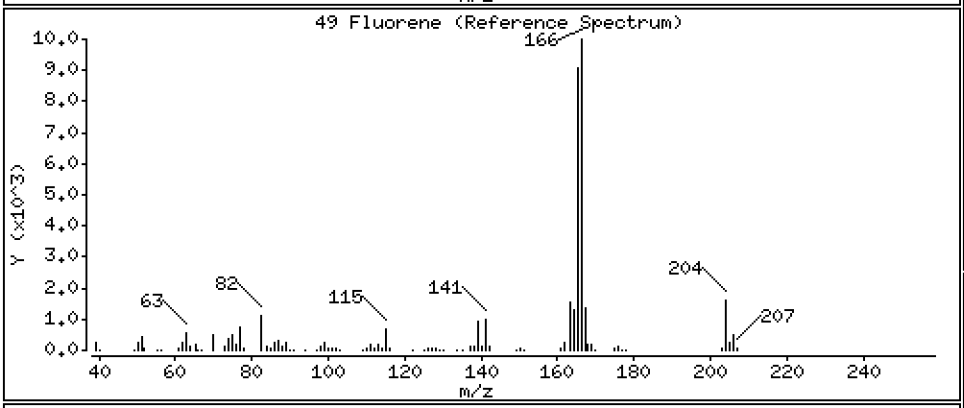
Concentration: 5.411 ug/mL

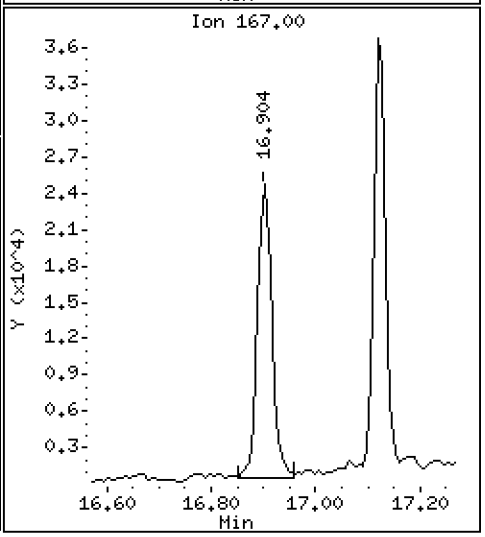


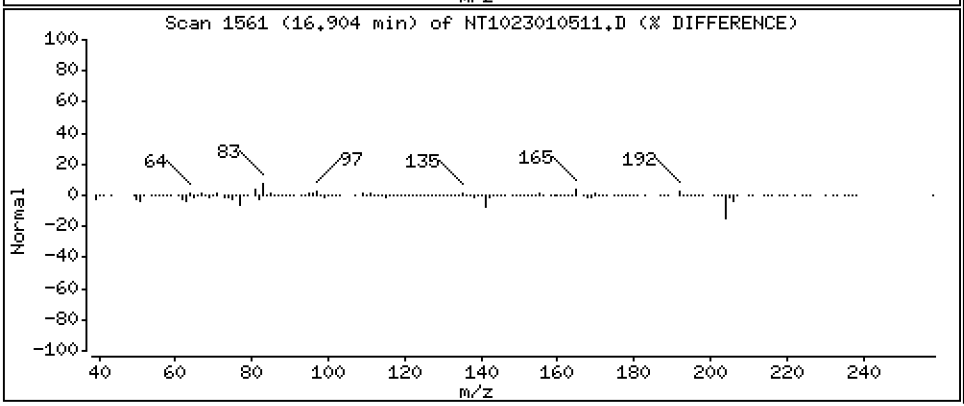












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

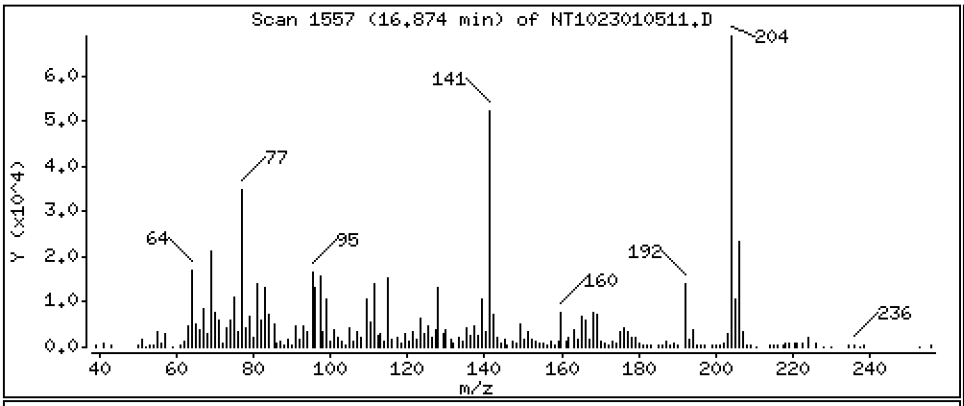
Operator: VTS

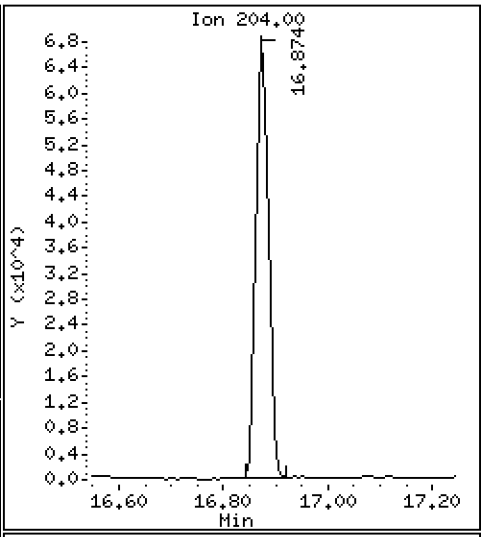
Column phase: ZB-5msi

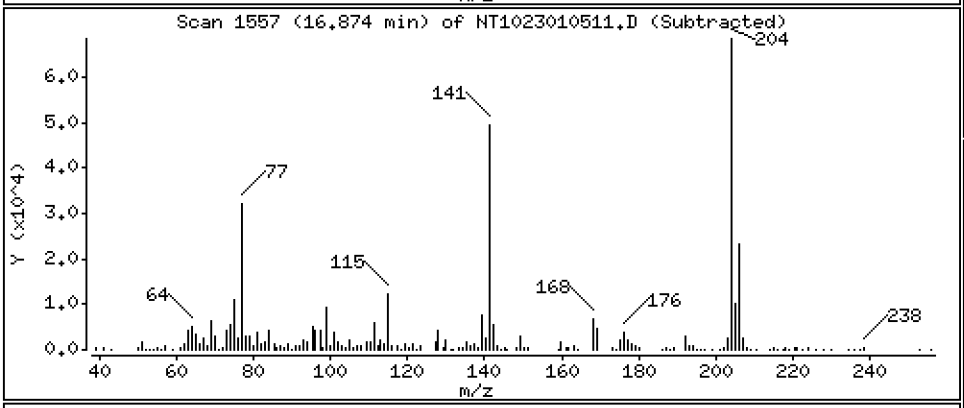
Column diameter: 0.25

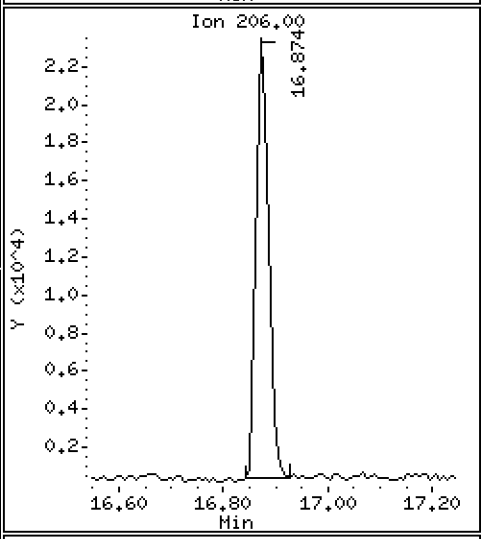
51 4-Chlorophenyl-phenylether

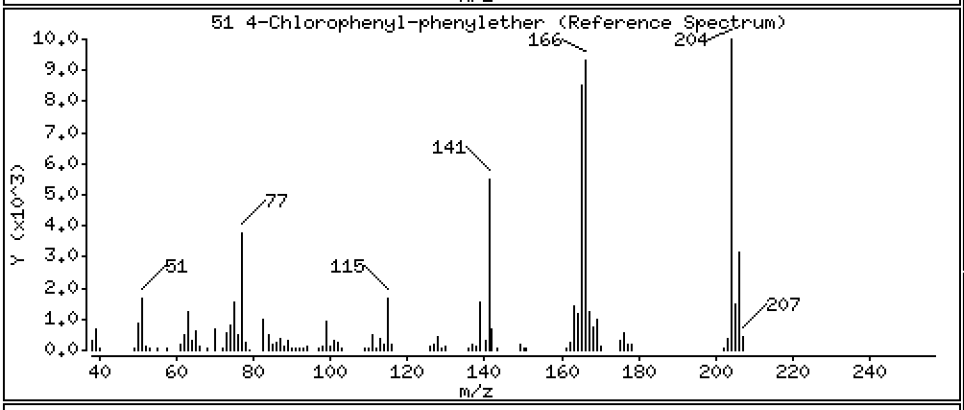
Concentration: 4.827 ug/mL

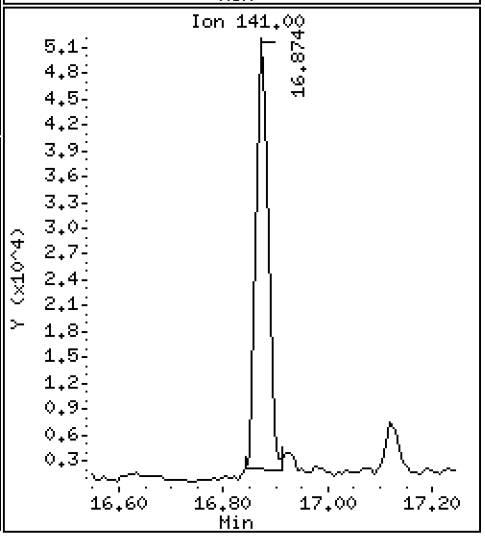


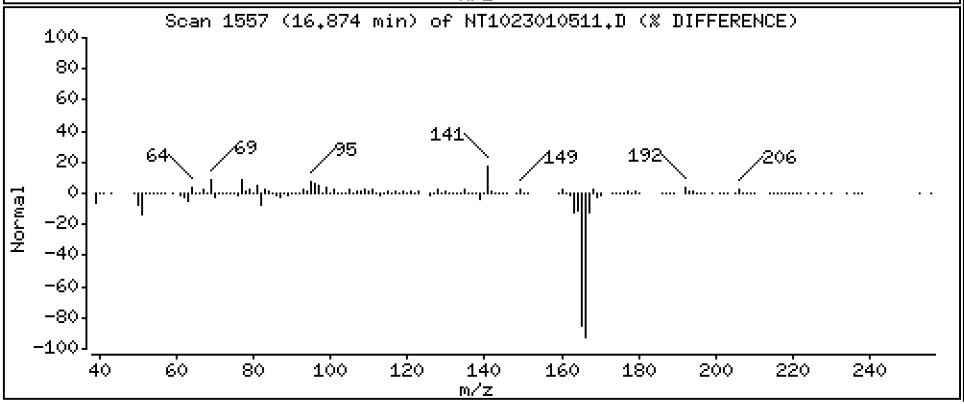












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

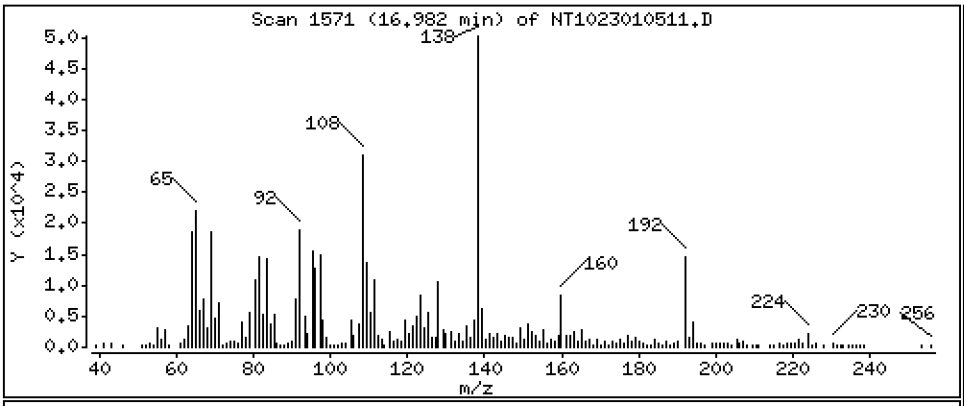
Operator: VTS

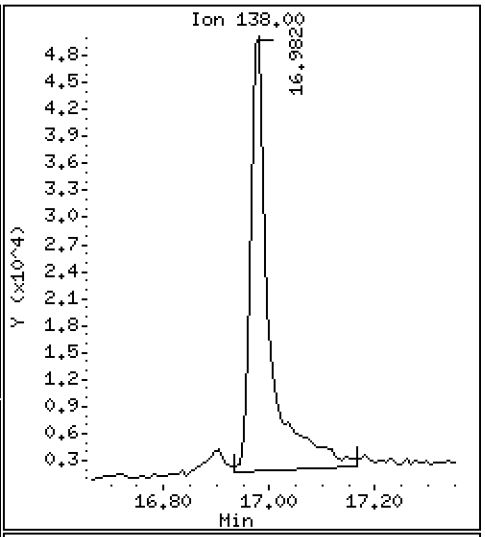
Column phase: ZB-5msi

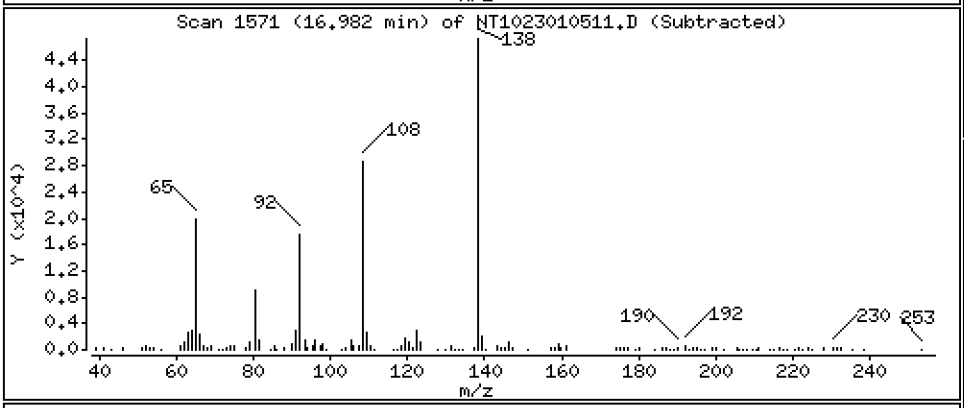
Column diameter: 0.25

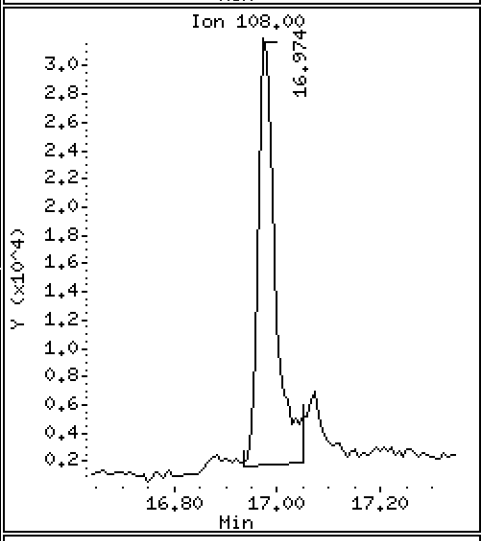
52 4-Nitroaniline

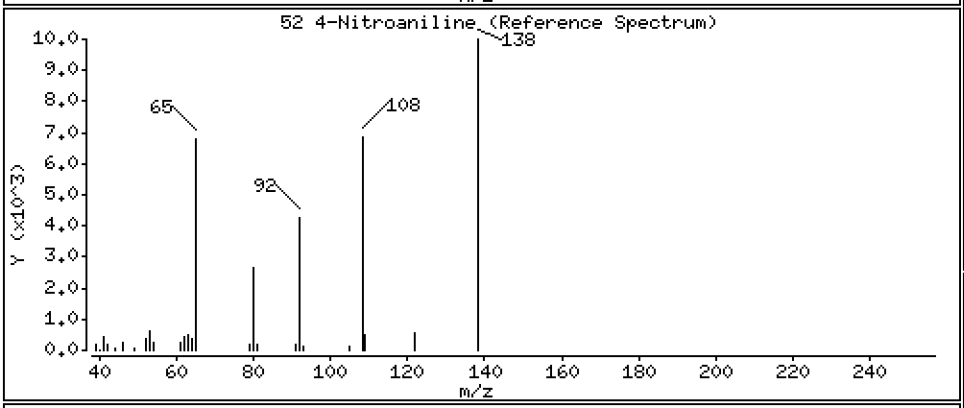
Concentration: 8.744 ug/mL

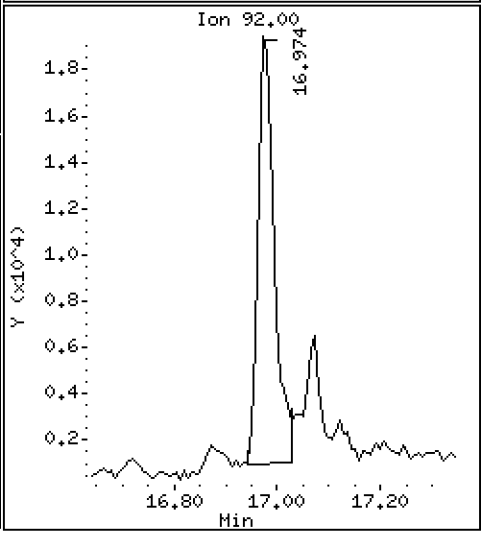


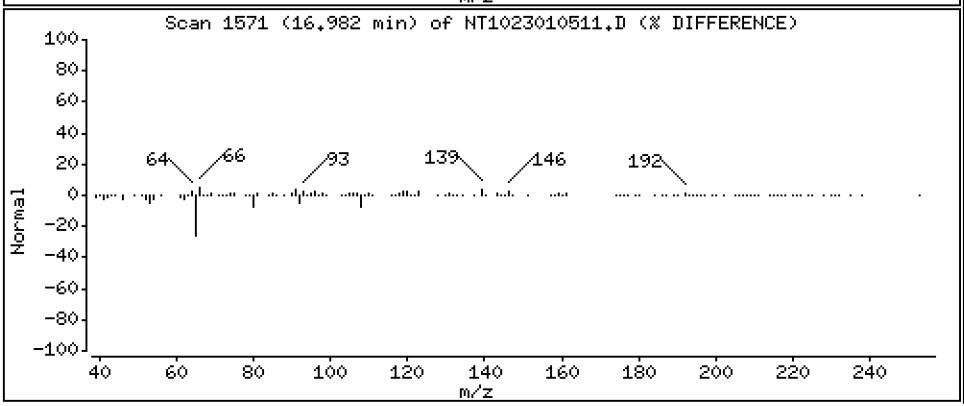












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

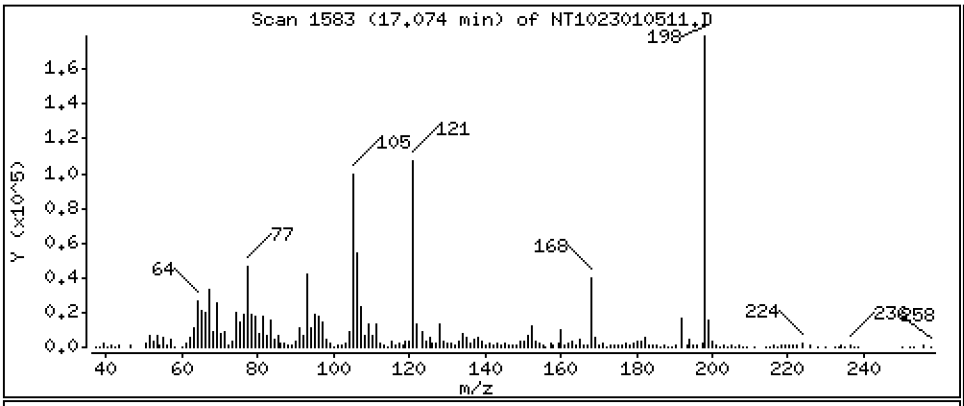
Operator: VTS

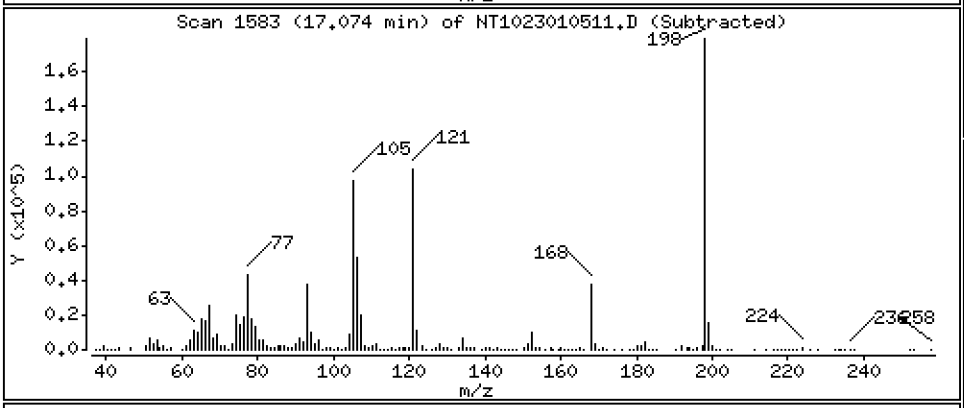
Column phase: ZB-5msi

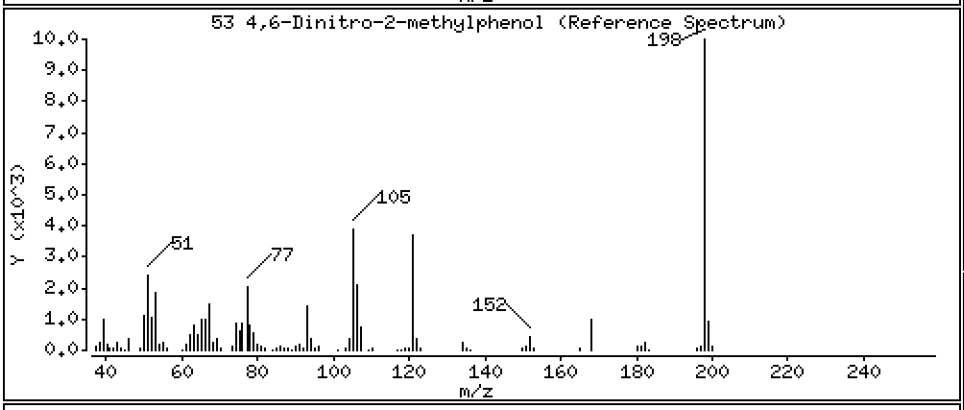
Column diameter: 0.25

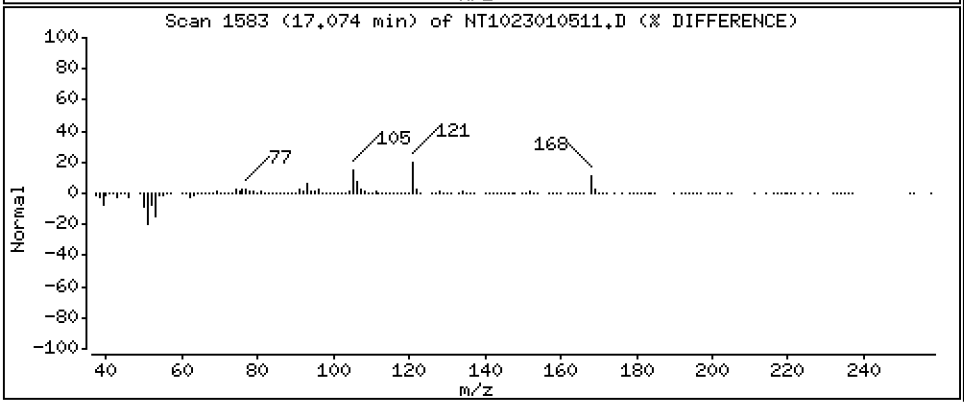
53 4,6-Dinitro-2-methylphenol

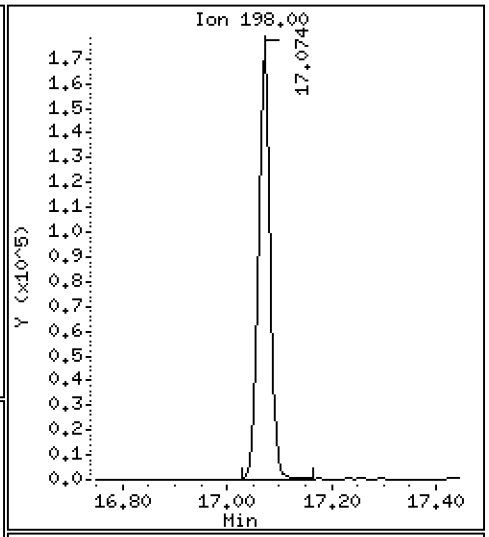
Concentration: 35.02 ug/mL

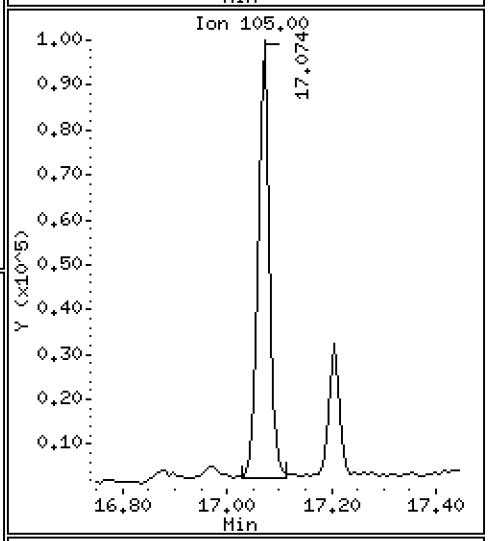


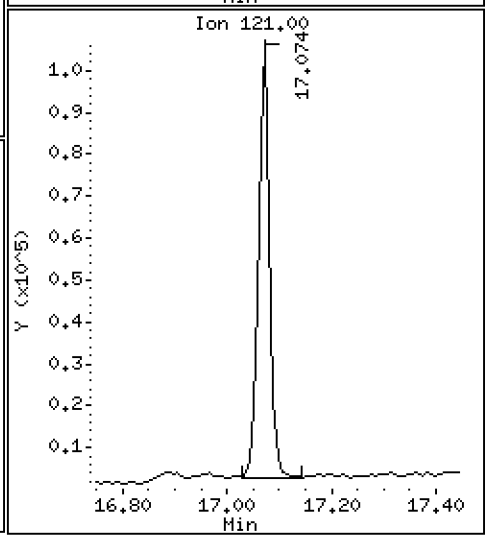












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

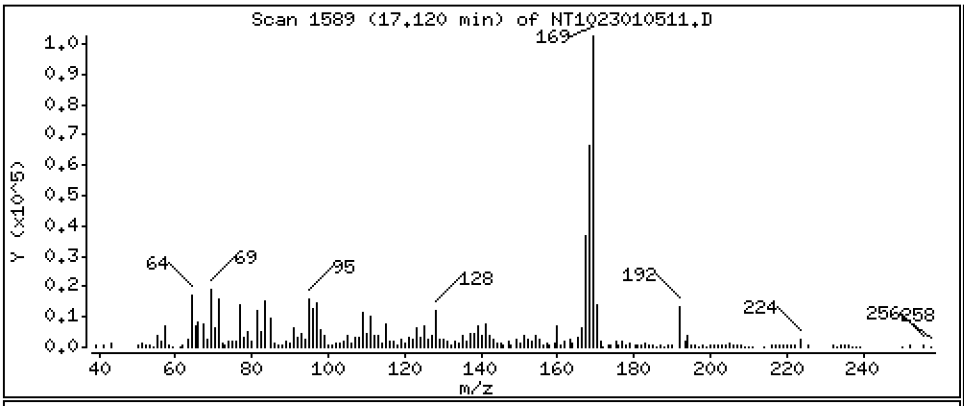
Operator: VTS

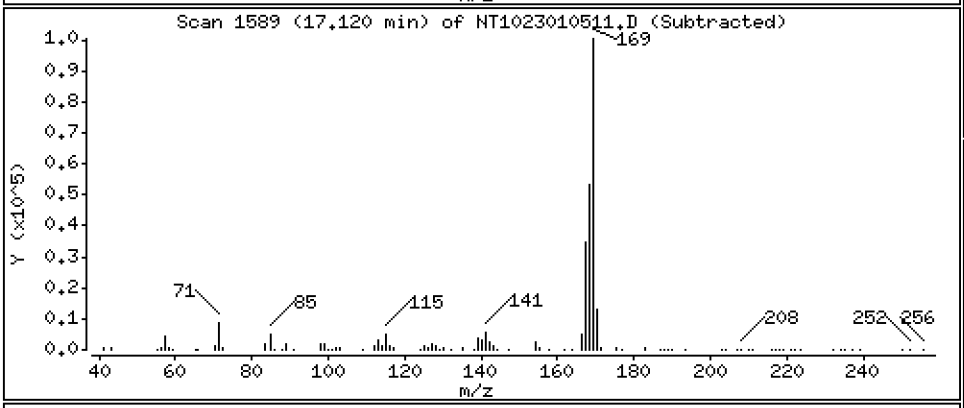
Column phase: ZB-5msi

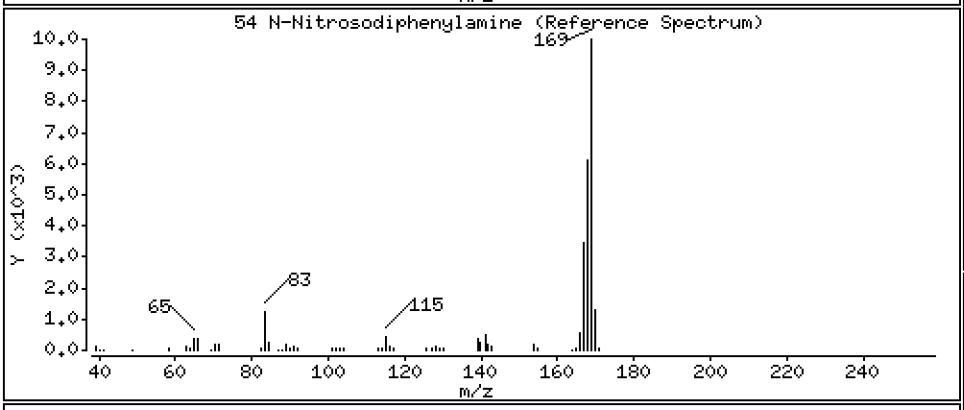
Column diameter: 0.25

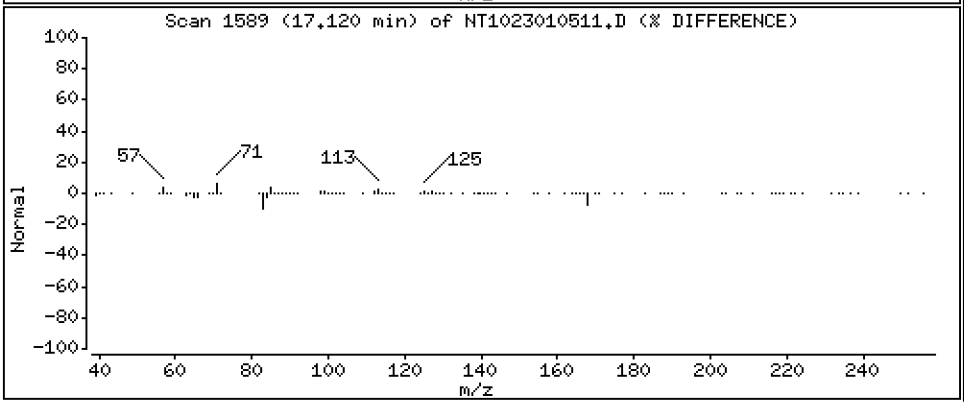
54 N-Nitrosodiphenylamine

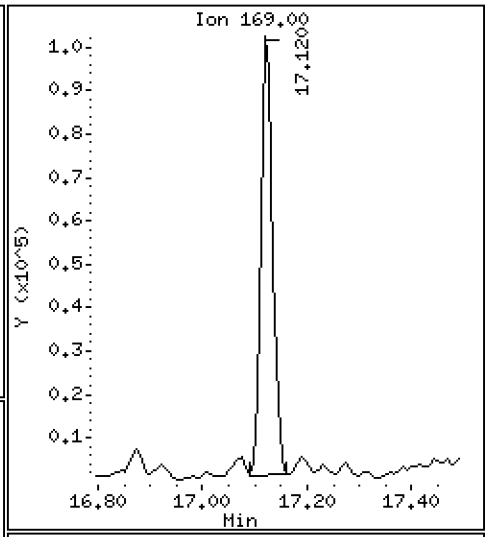
Concentration: 4.872 ug/mL

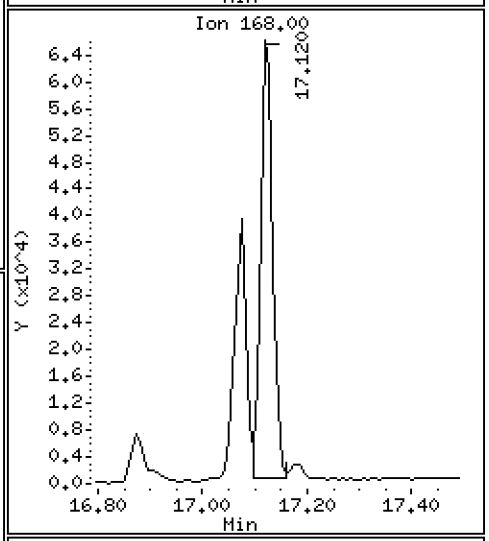


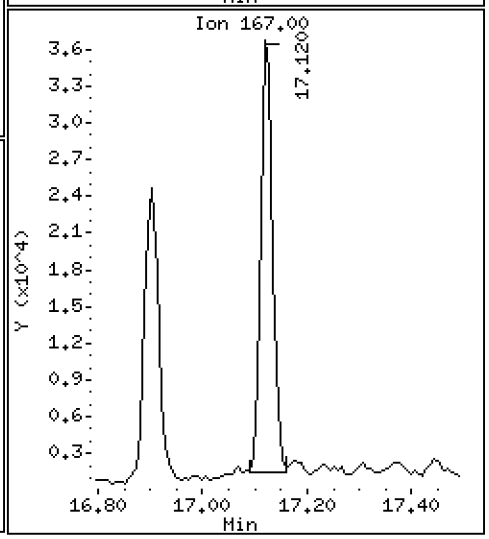












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

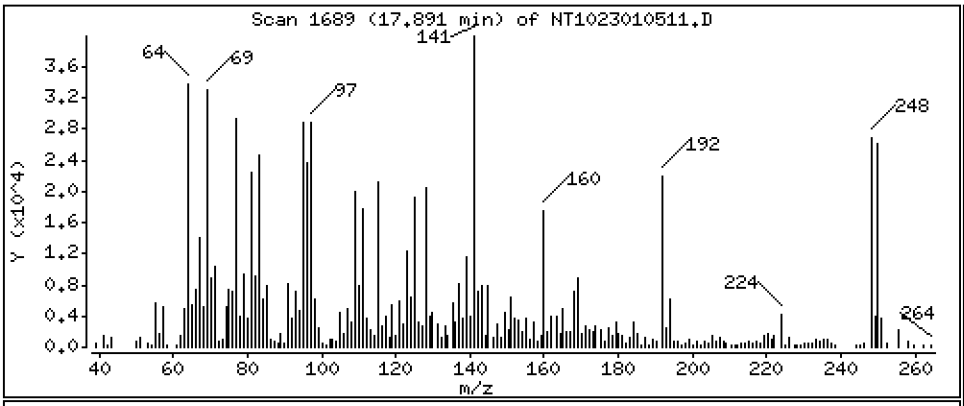
Operator: VTS

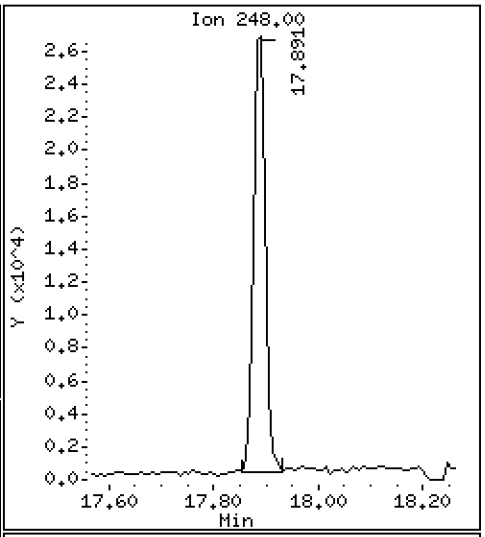
Column phase: ZB-5msi

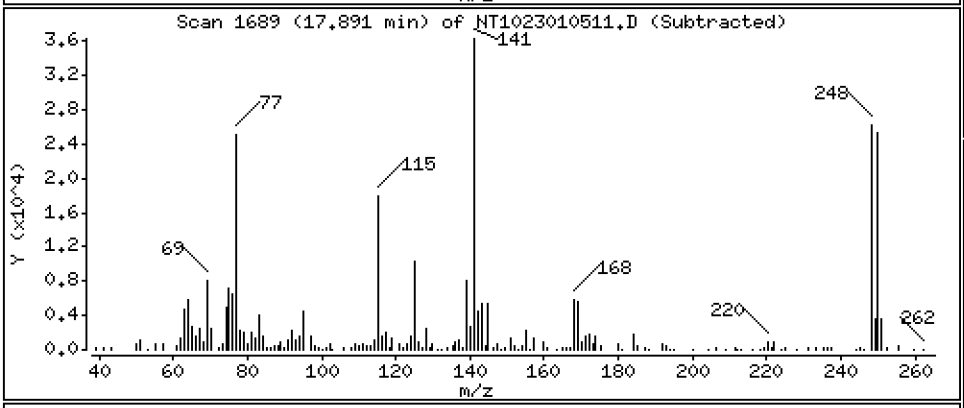
Column diameter: 0.25

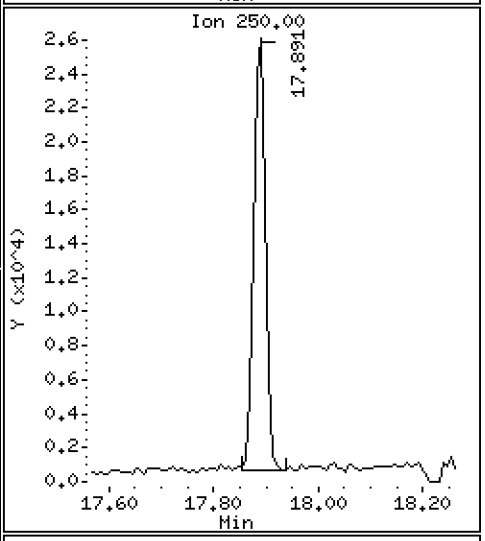
56 4-Bromophenyl-phenylether

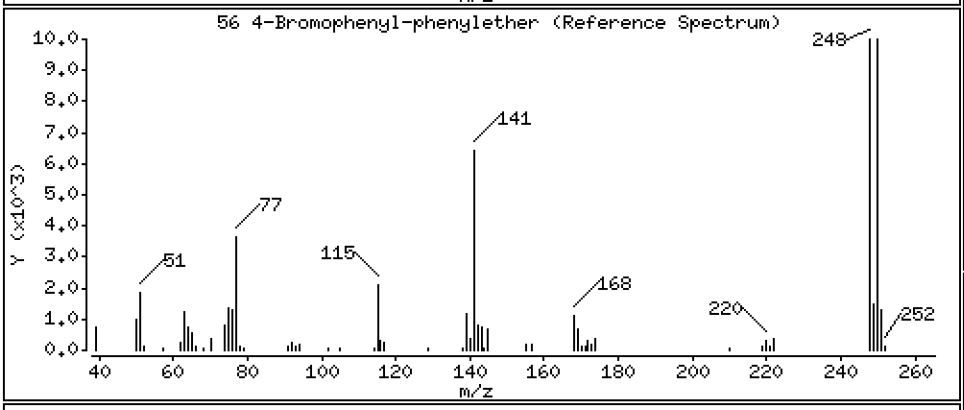
Concentration: 5.151 ug/mL

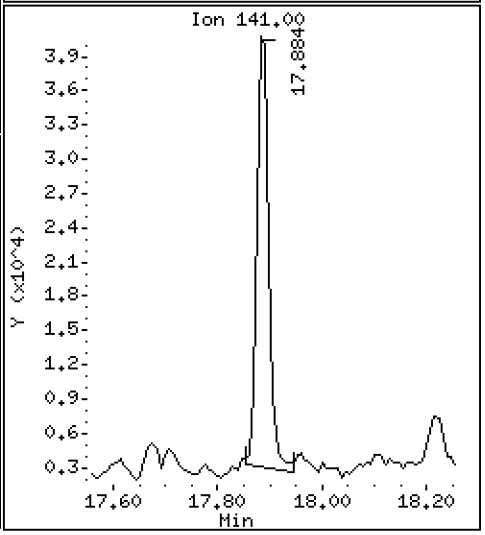


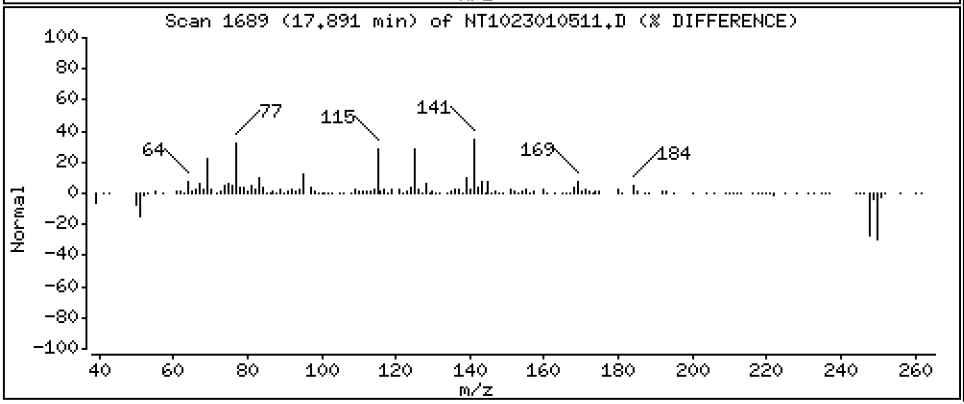












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

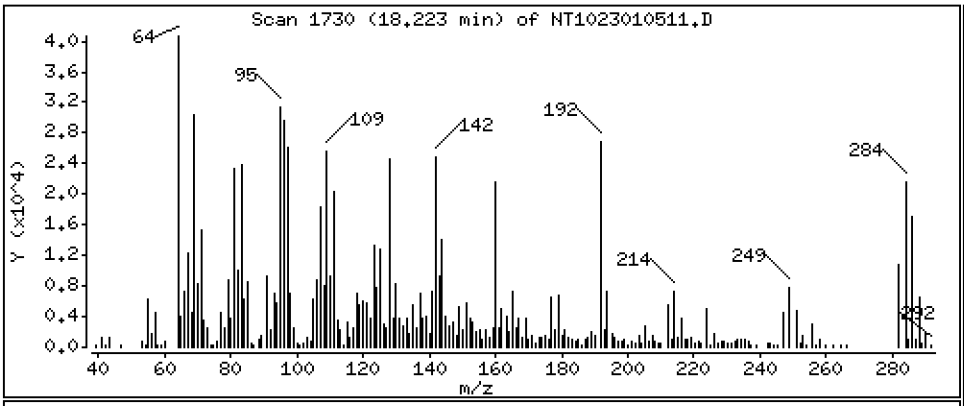
Operator: VTS

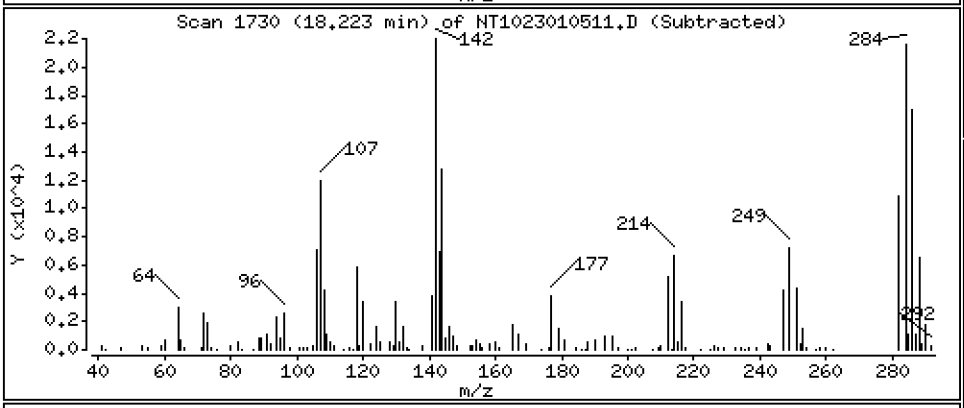
Column phase: ZB-5msi

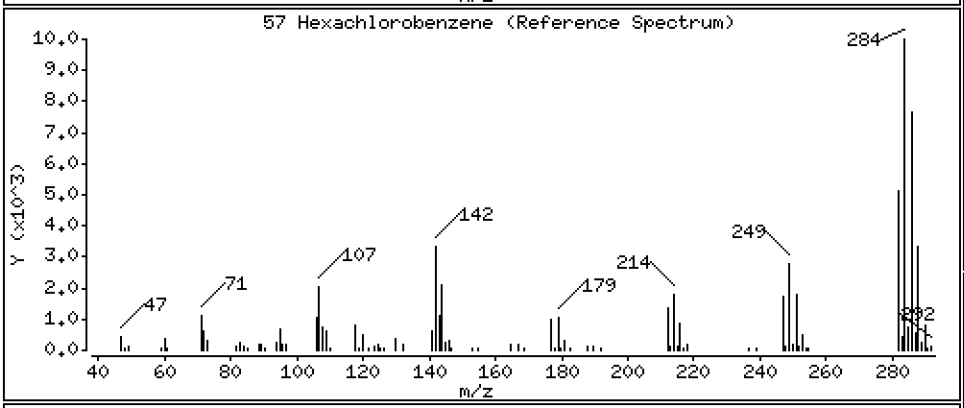
Column diameter: 0.25

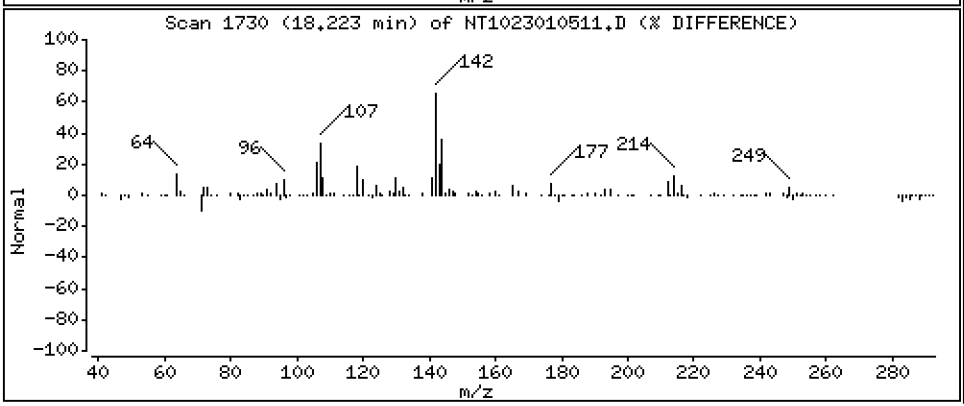
57 Hexachlorobenzene

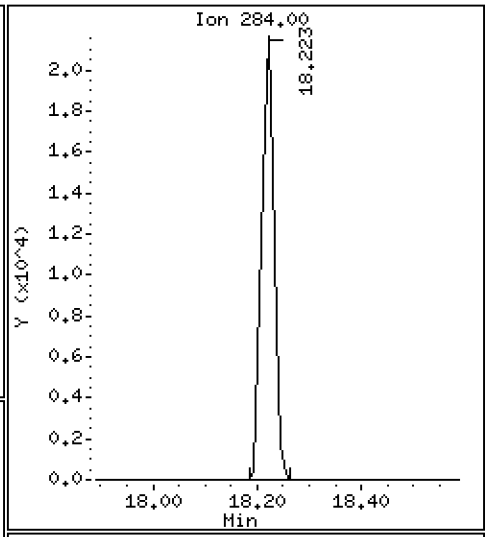
Concentration: 5.078 ug/mL

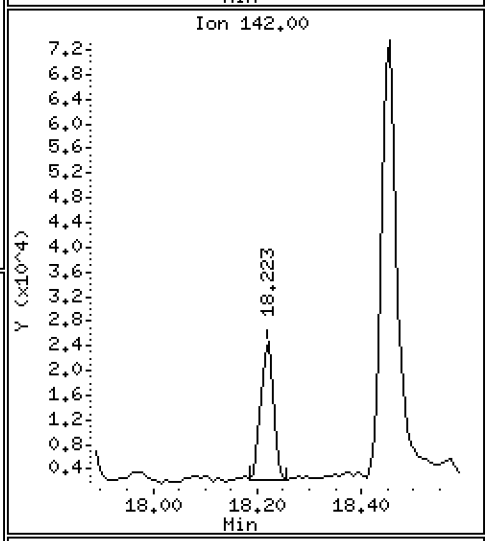


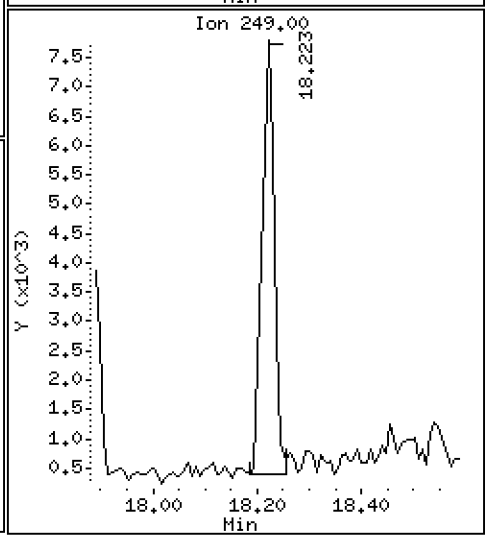












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

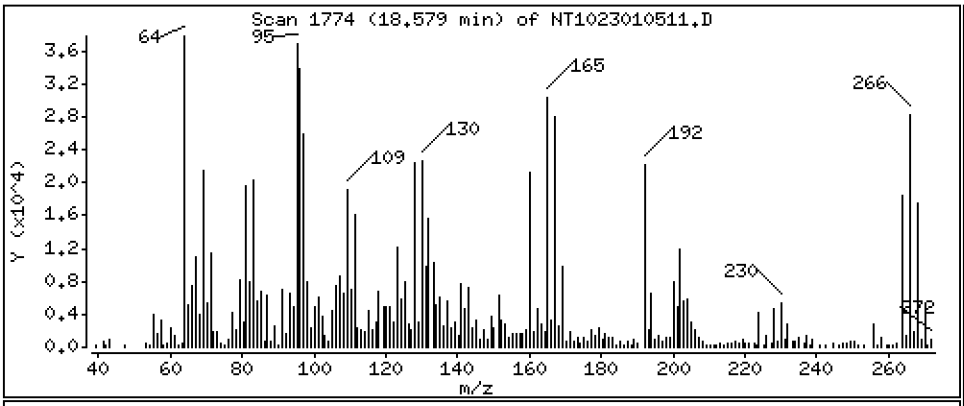
Operator: VTS

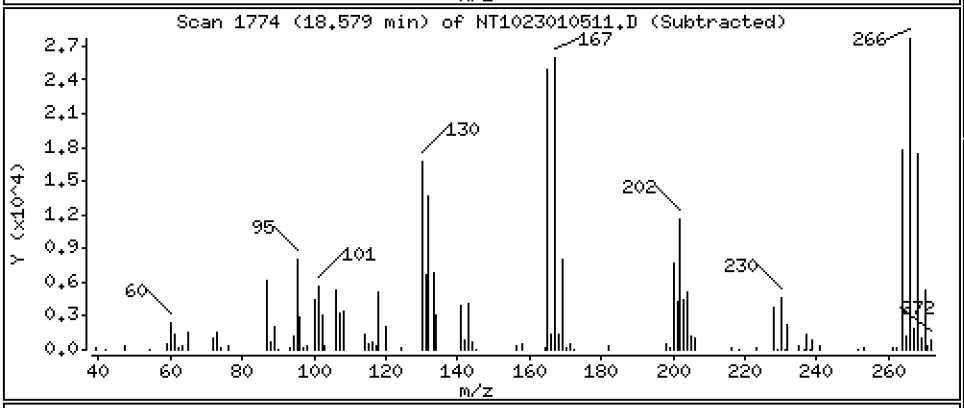
Column phase: ZB-5msi

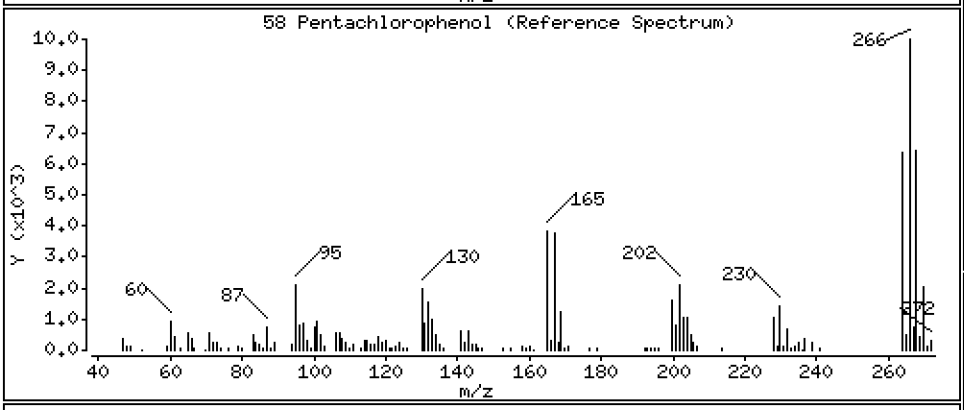
Column diameter: 0.25

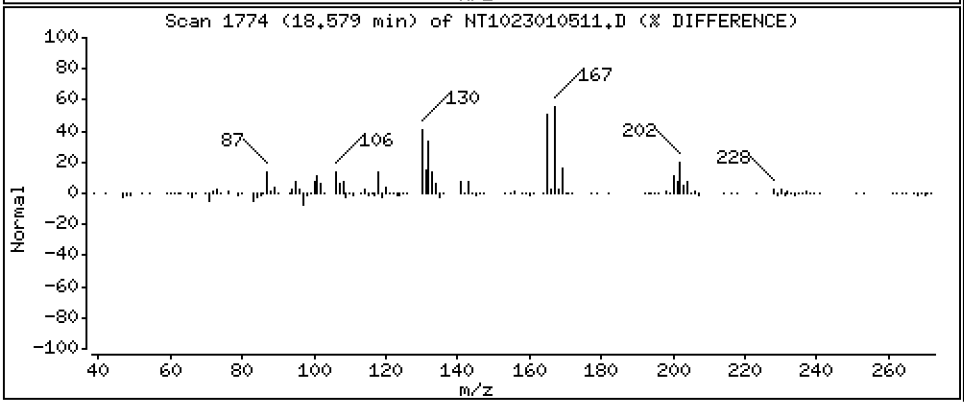
58 Pentachlorophenol

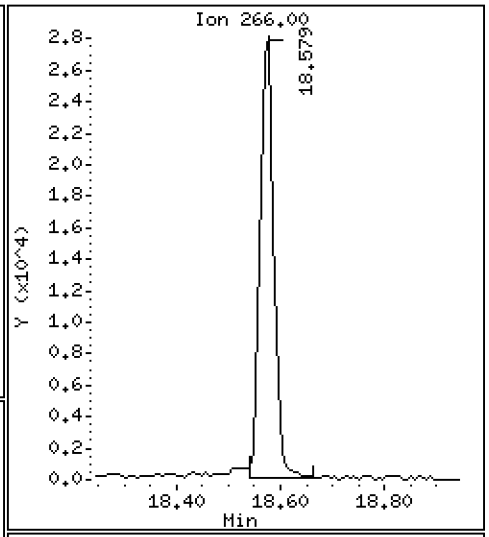
Concentration: 27.21 ug/mL

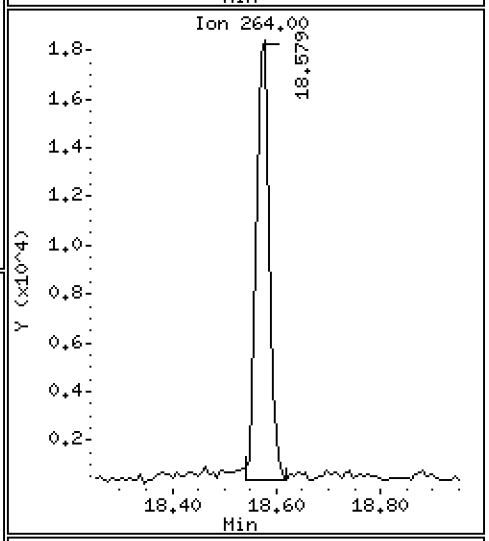


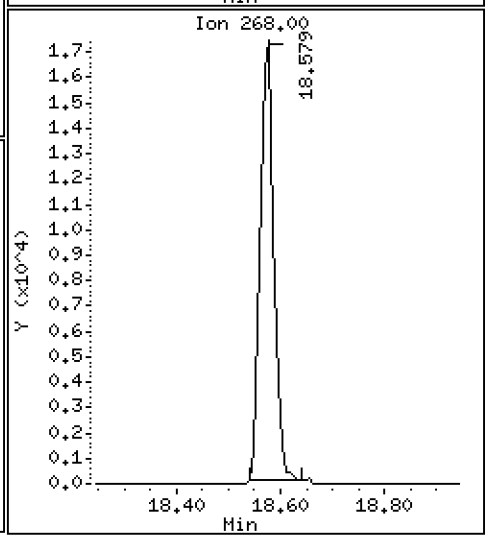












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

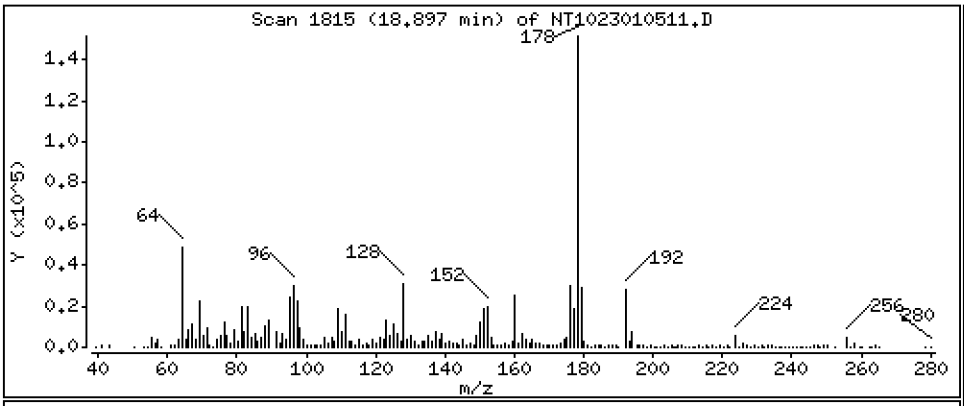
Operator: VTS

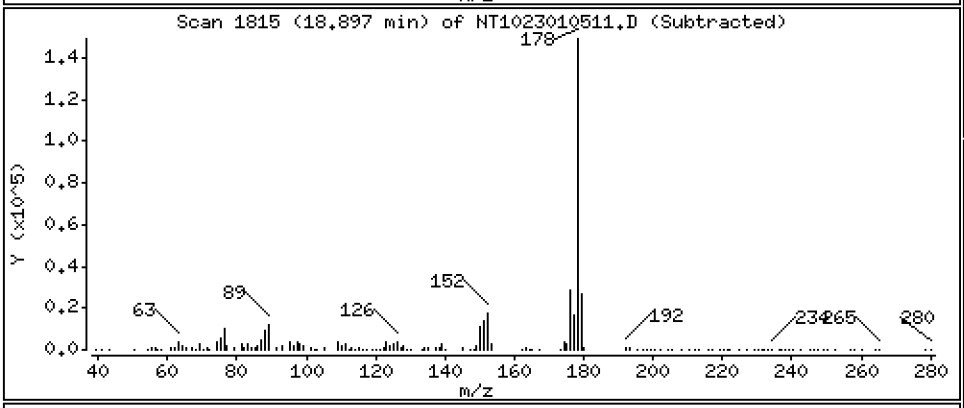
Column phase: ZB-5msi

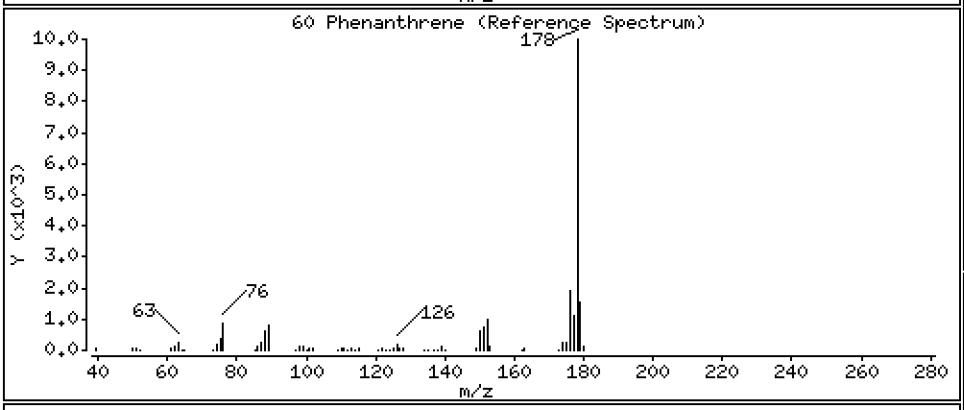
Column diameter: 0.25

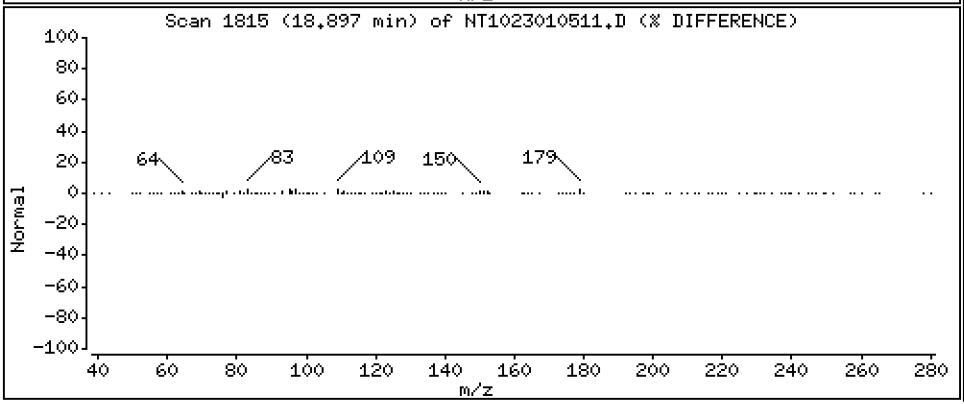
60 Phenanthrene

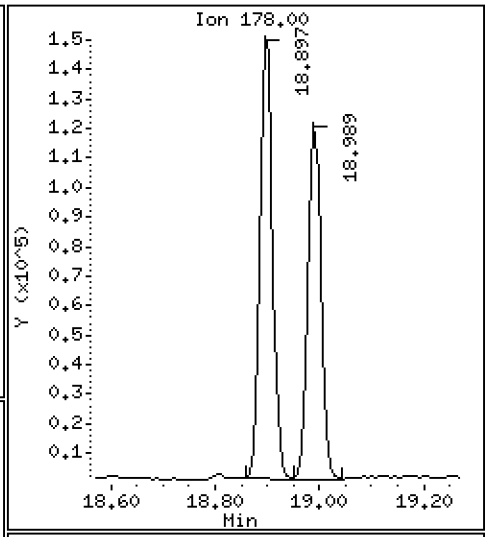
Concentration: 5.948 ug/mL

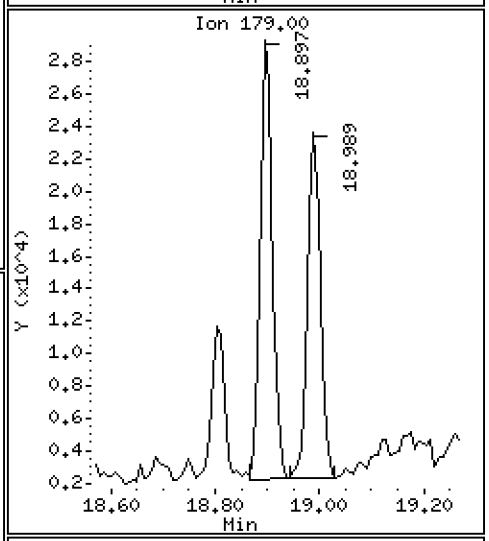


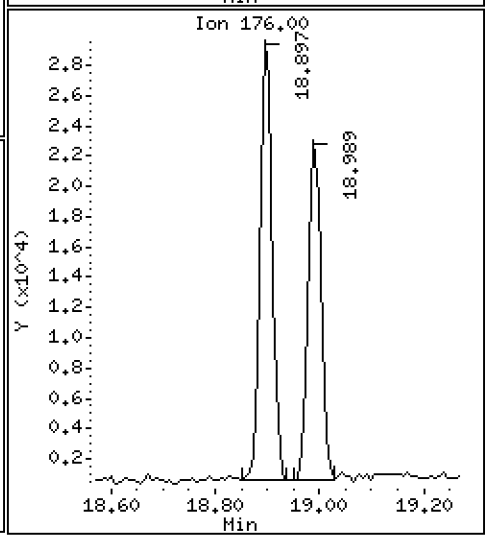












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

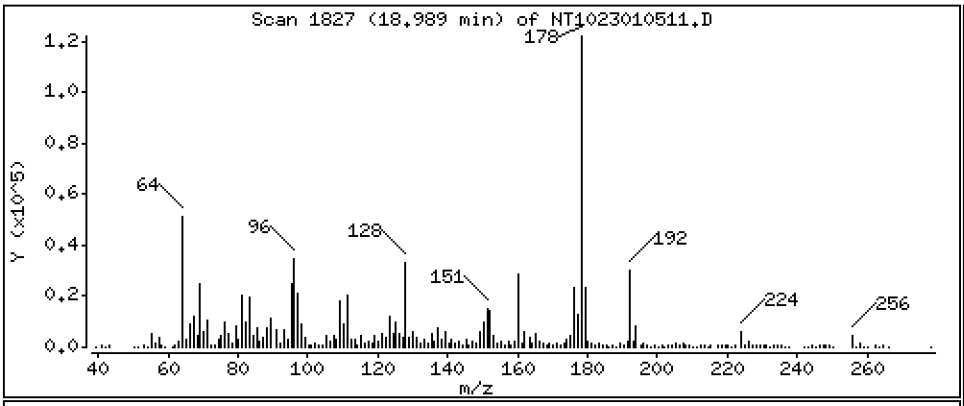
Operator: VTS

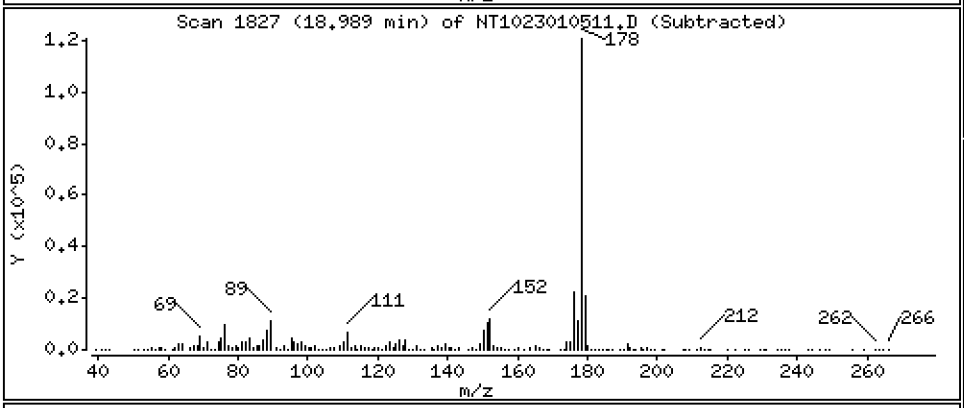
Column phase: ZB-5msi

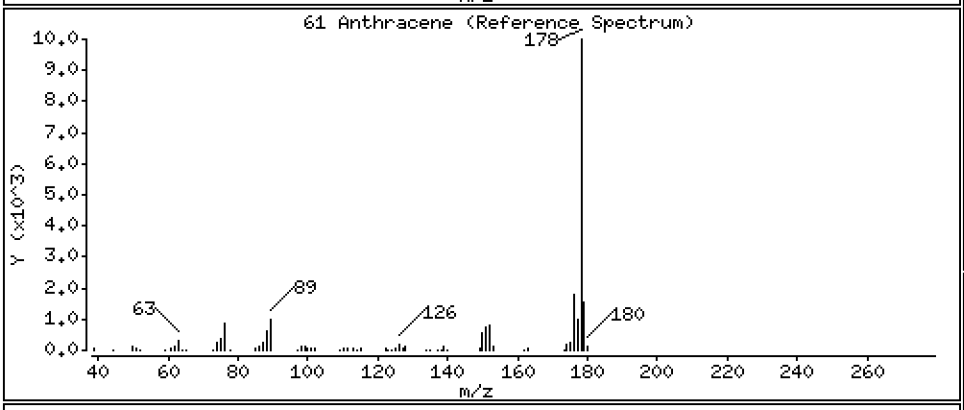
Column diameter: 0.25

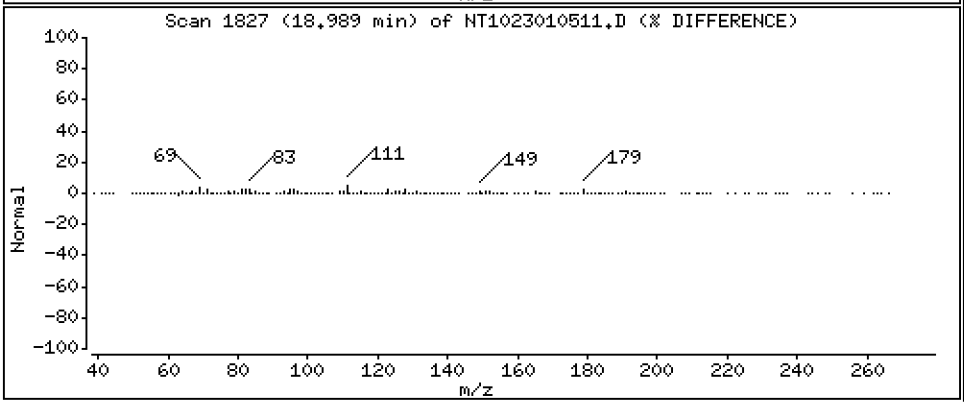
61 Anthracene

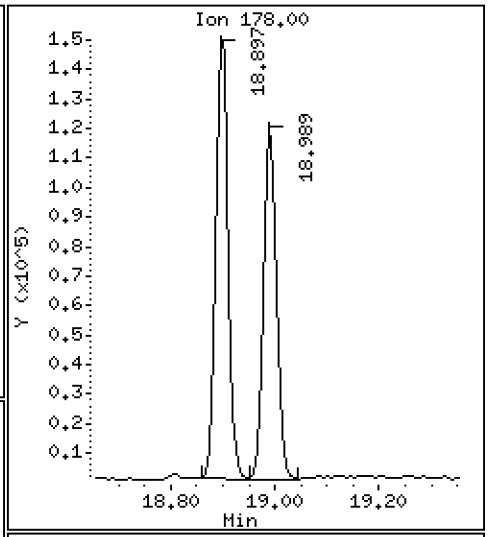
Concentration: 4.771 ug/mL

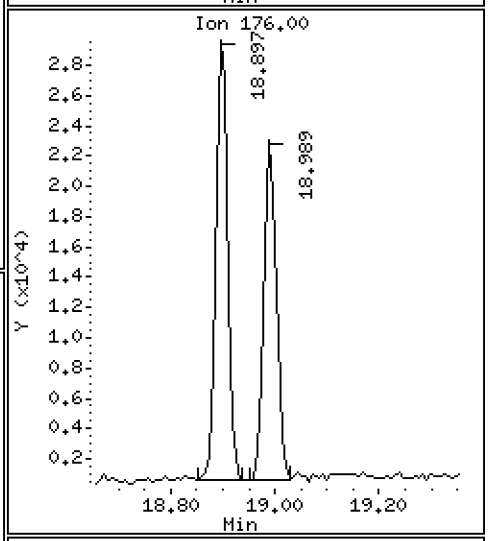


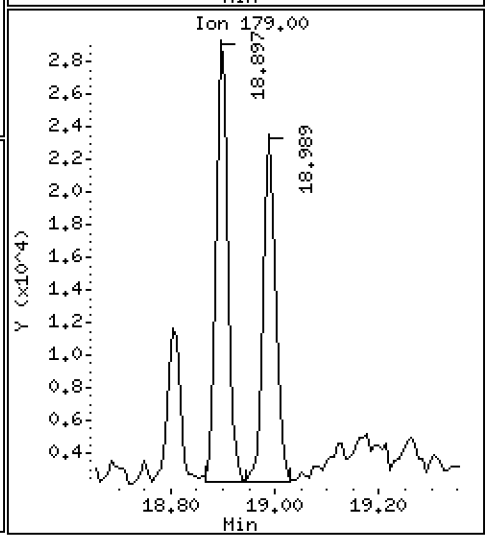












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

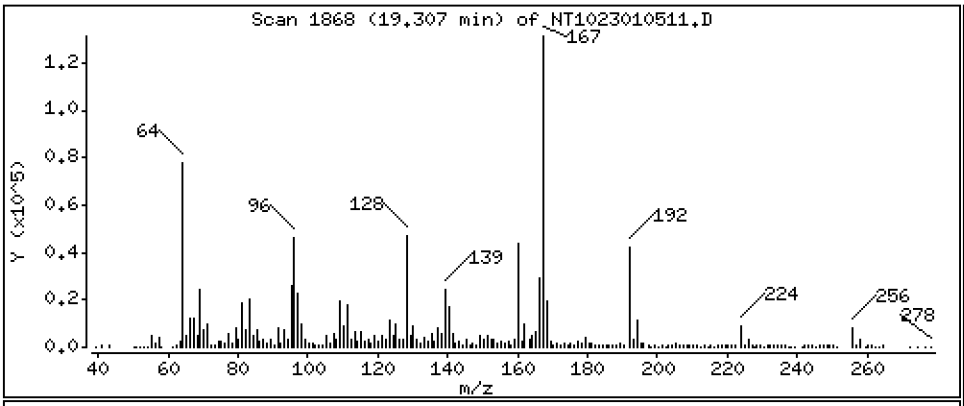
Operator: VTS

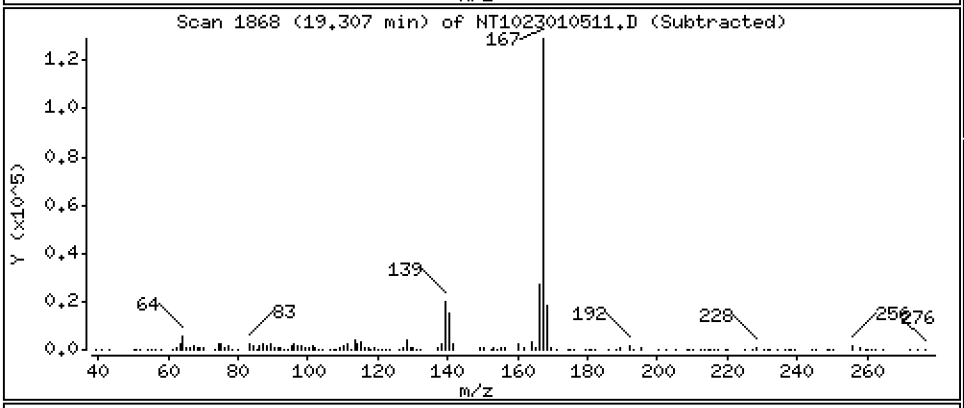
Column phase: ZB-5msi

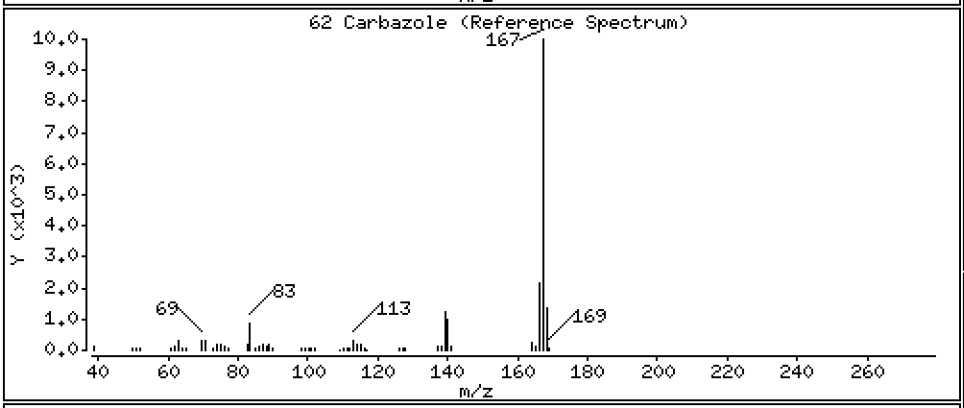
Column diameter: 0.25

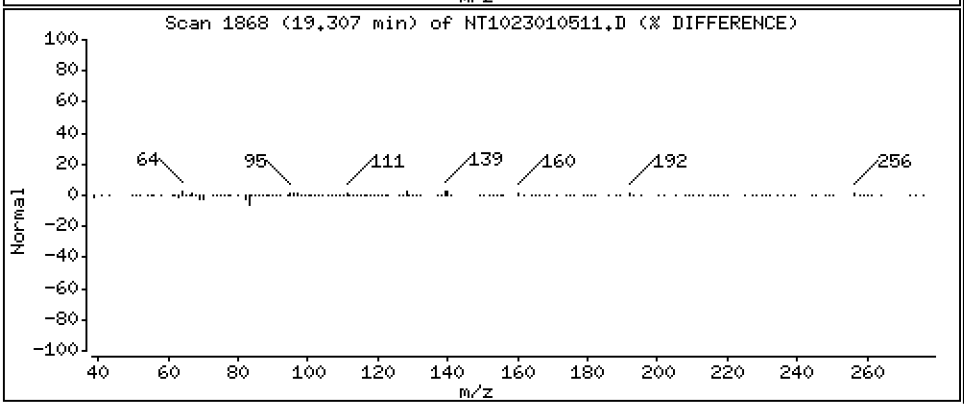
62 Carbazole

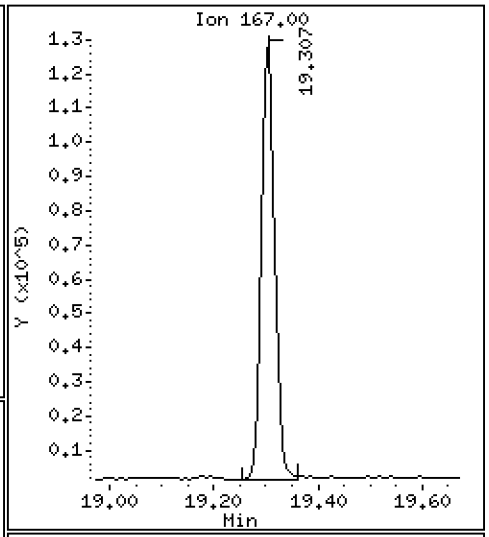
Concentration: 5.027 ug/mL

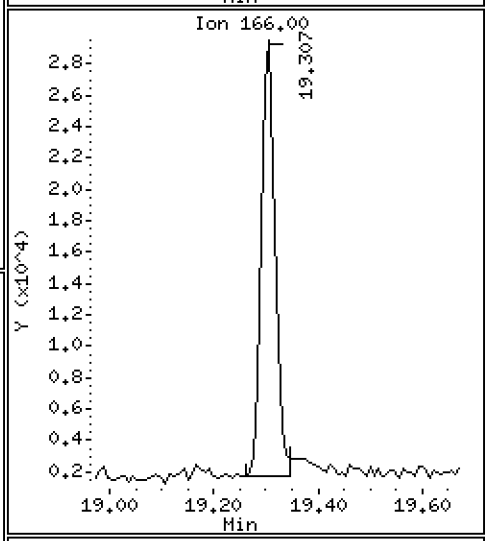


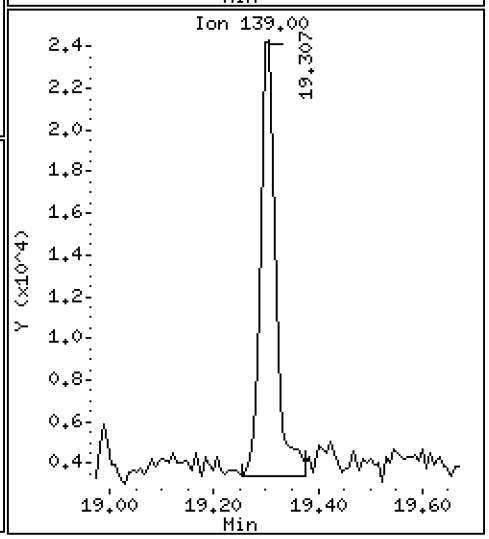












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

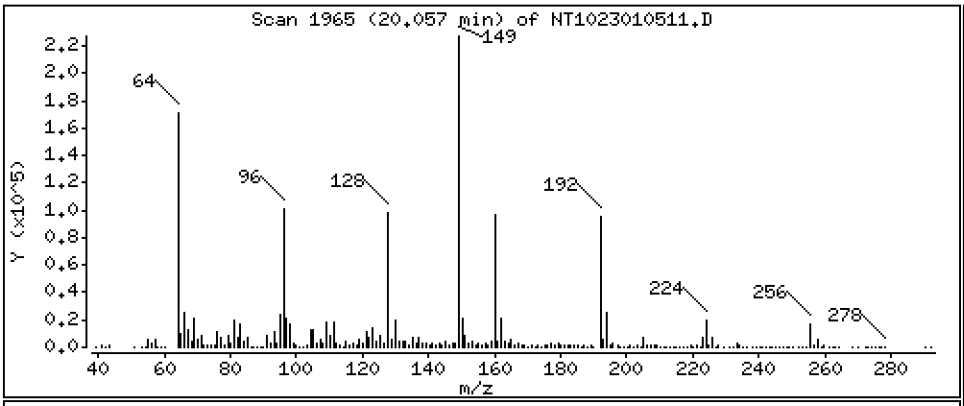
Operator: VTS

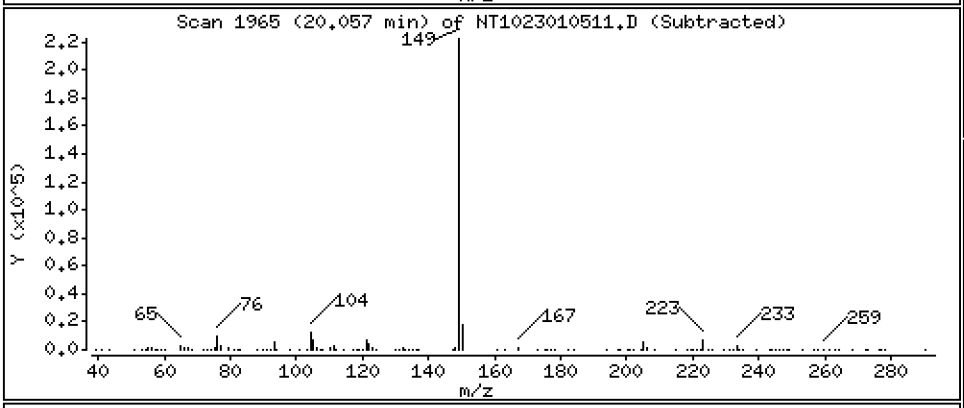
Column phase: ZB-5msi

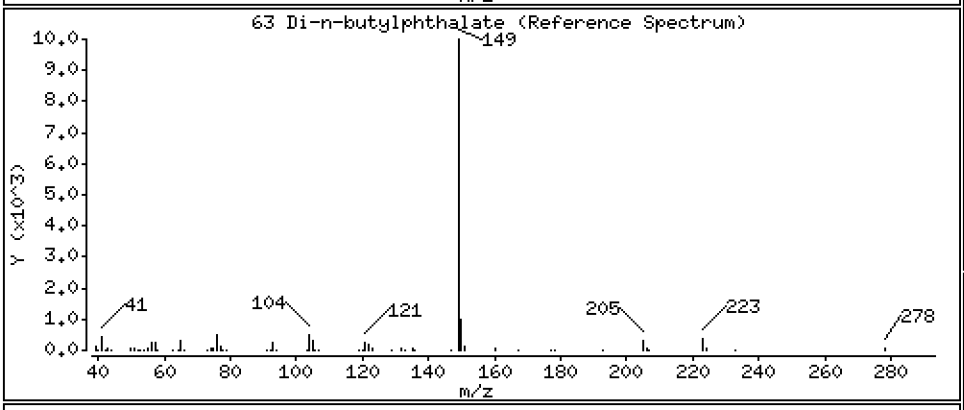
Column diameter: 0.25

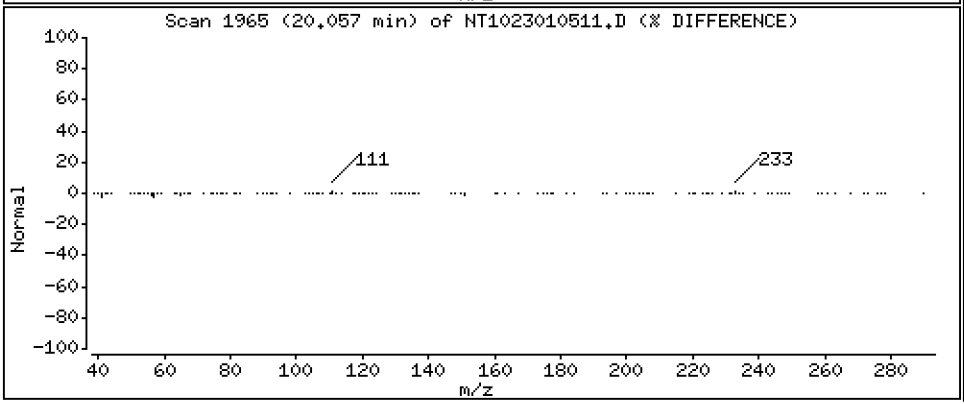
63 Di-n-butylphthalate

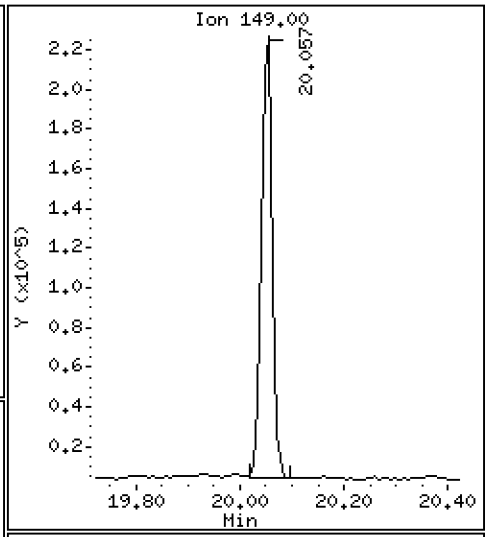
Concentration: 5.345 ug/mL

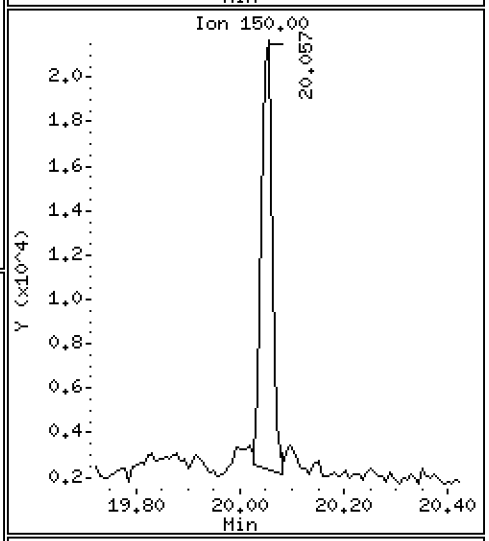


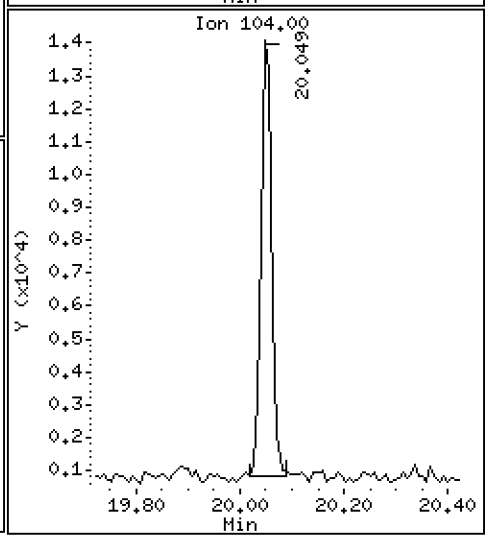












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

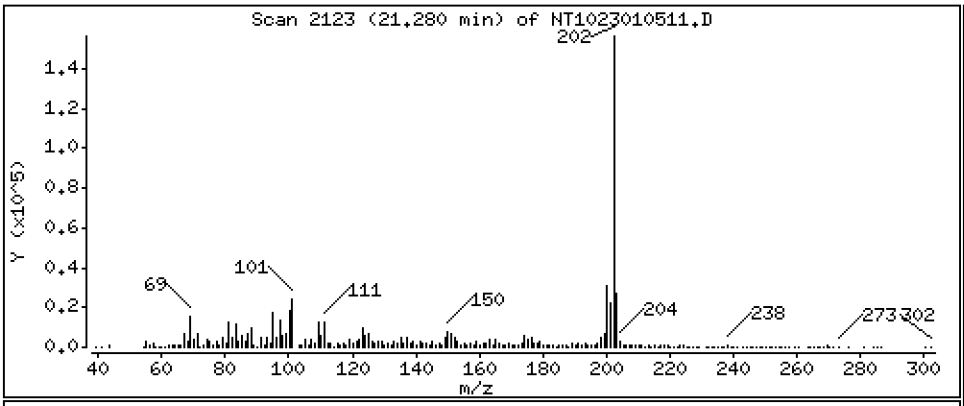
Operator: VTS

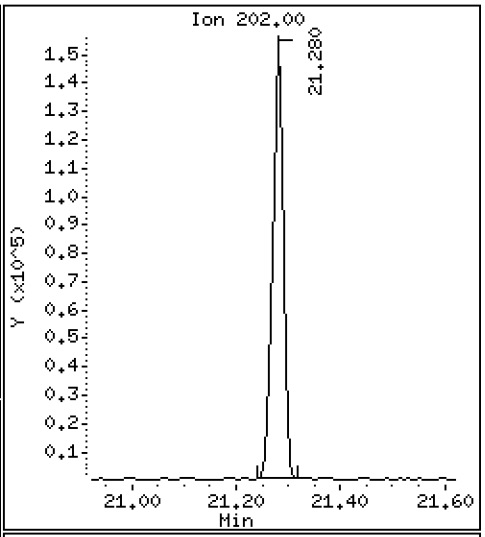
Column phase: ZB-5msi

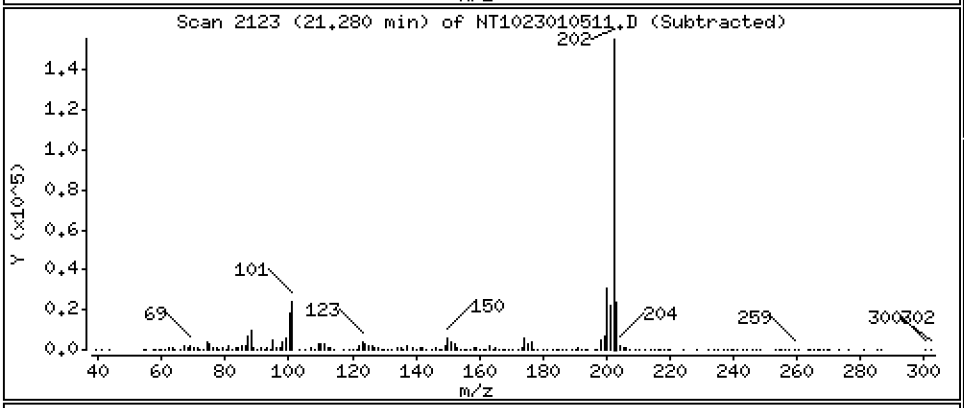
Column diameter: 0.25

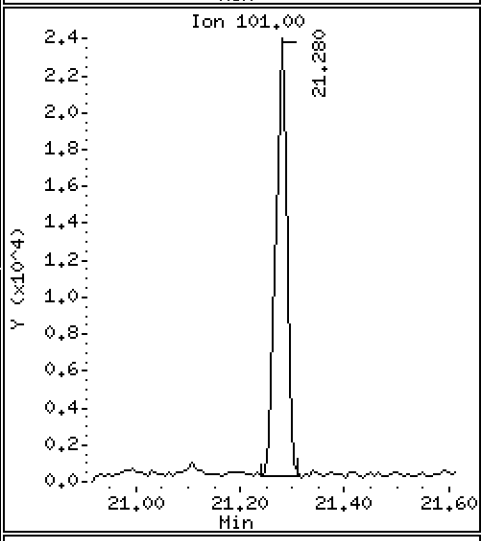
64 Fluoranthene

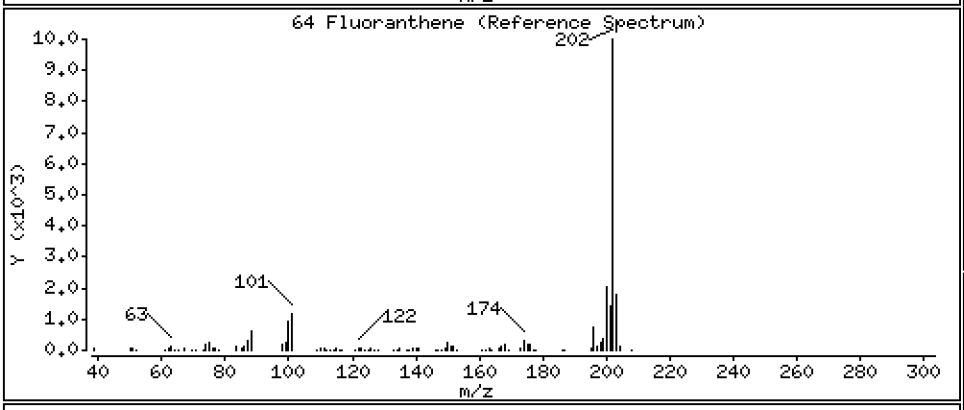
Concentration: 5.702 ug/mL

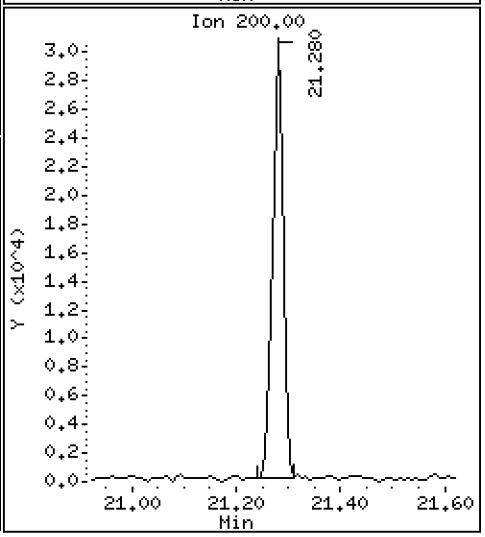


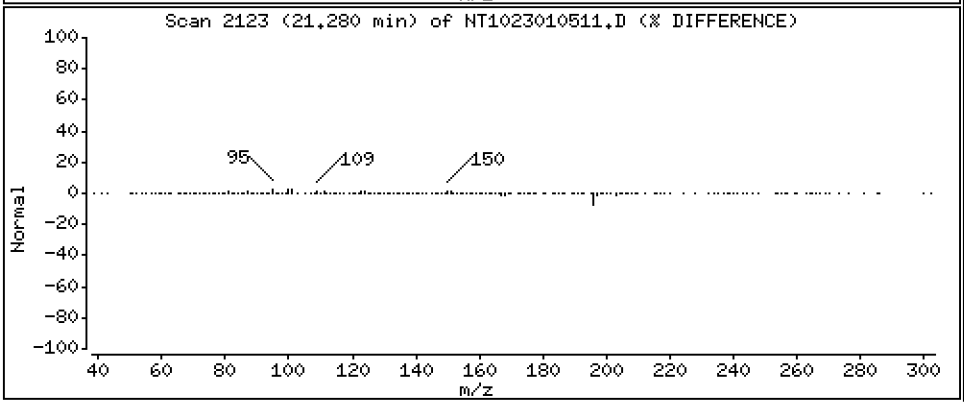












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

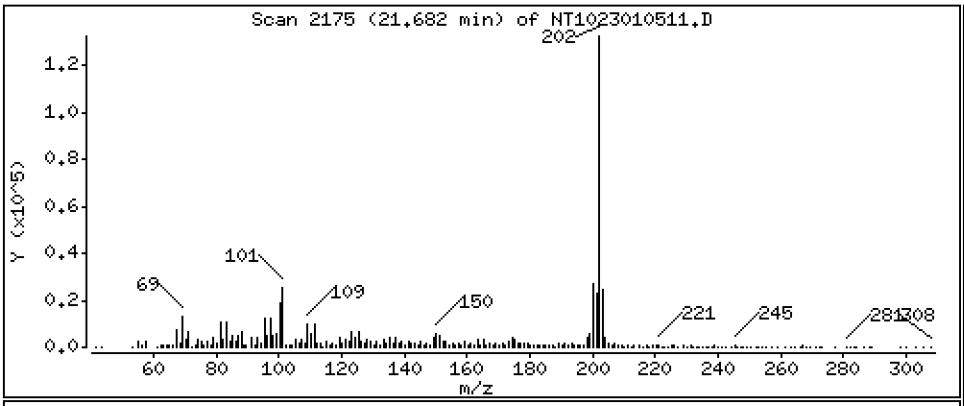
Operator: VTS

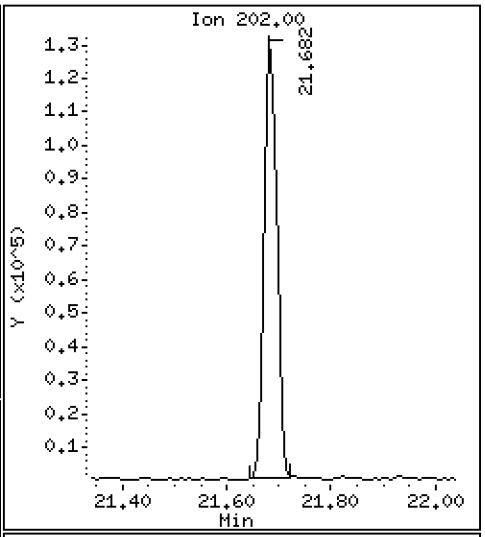
Column phase: ZB-5msi

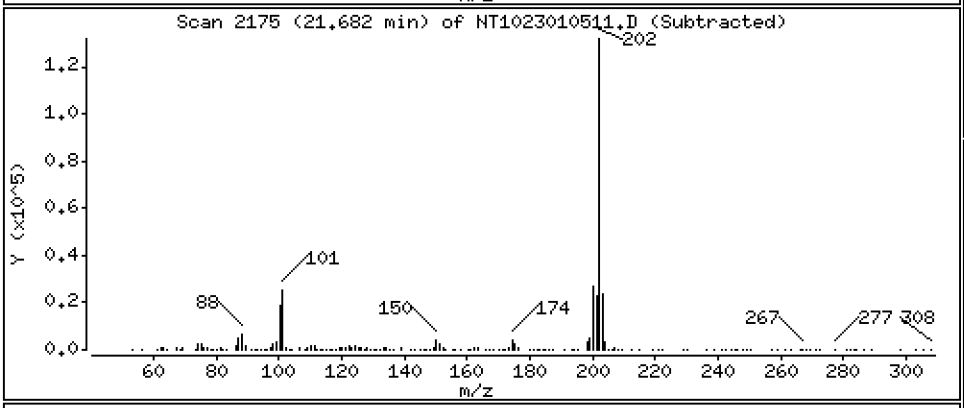
Column diameter: 0.25

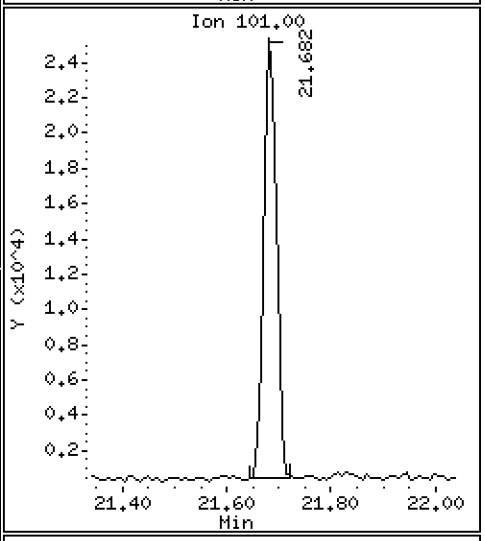
65 Pyrene

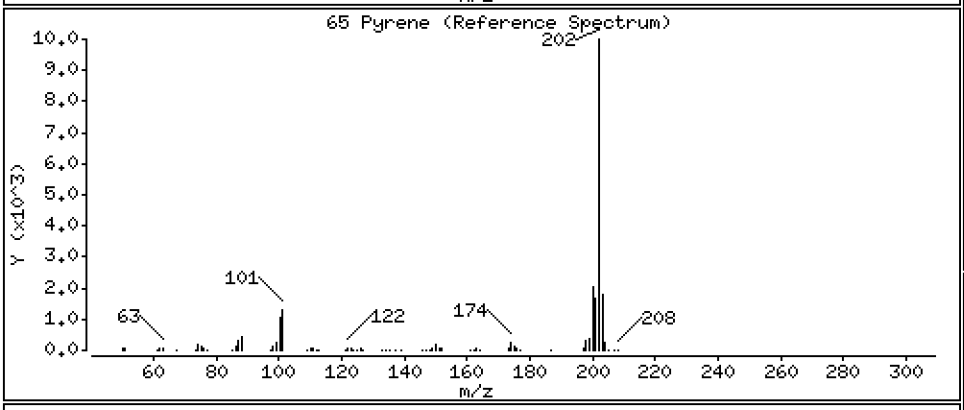
Concentration: 5.670 ug/mL

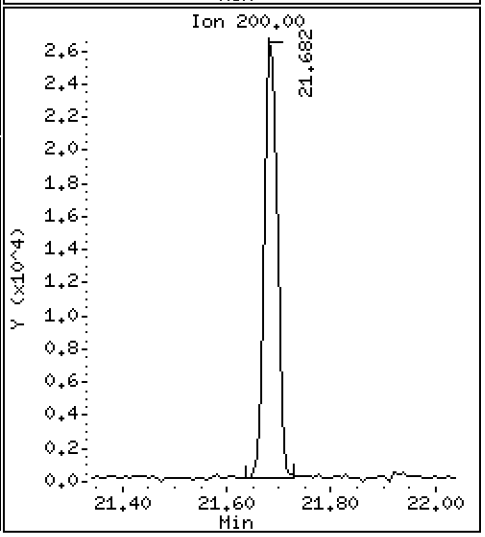


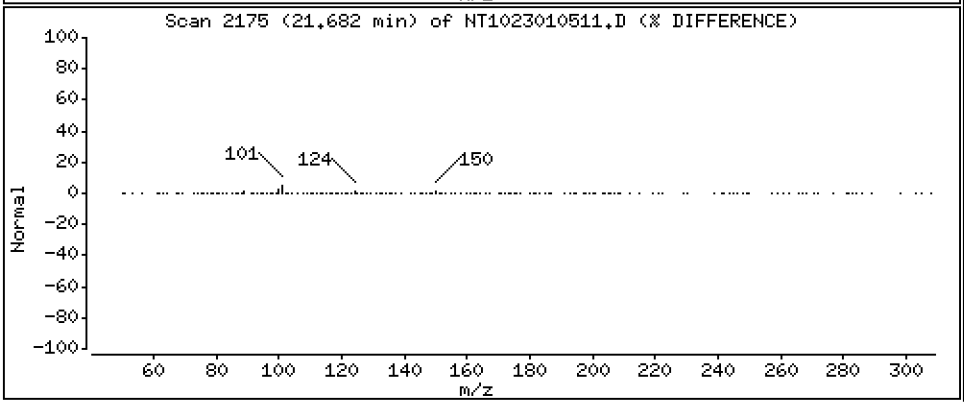












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

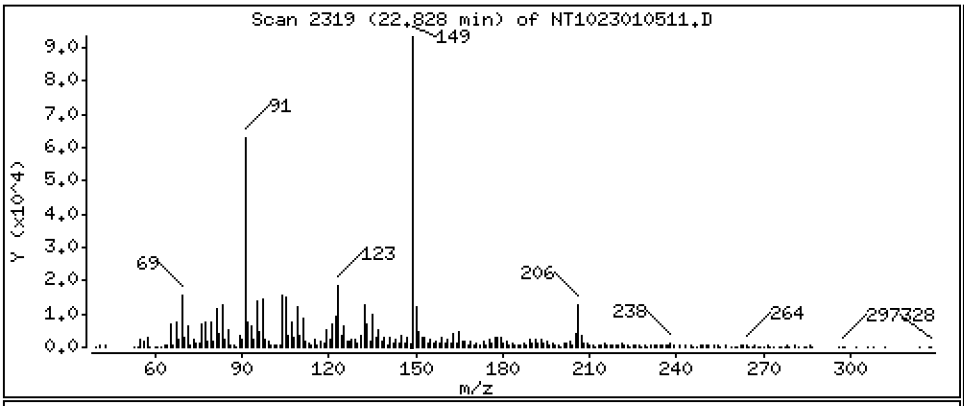
Operator: VTS

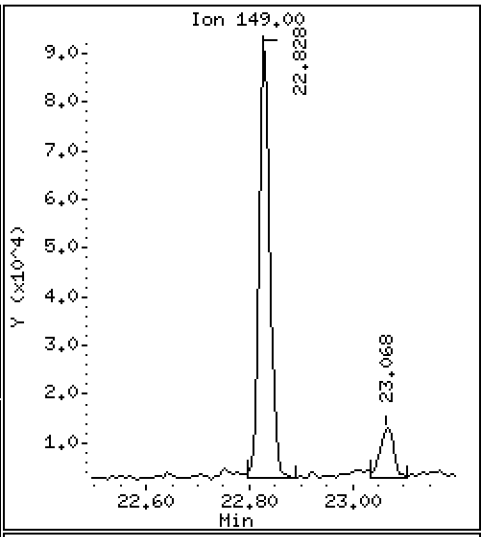
Column phase: ZB-5msi

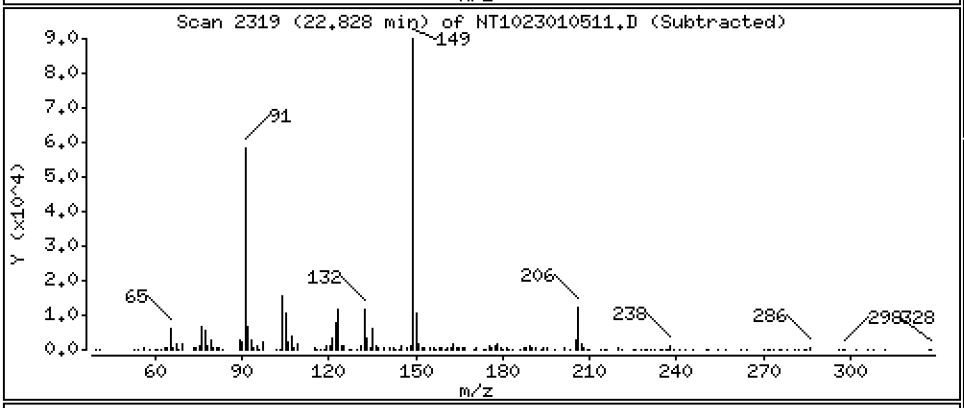
Column diameter: 0.25

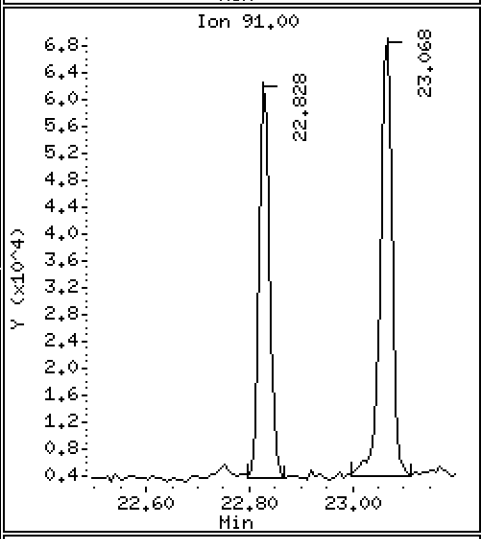
67 Butylbenzylphthalate

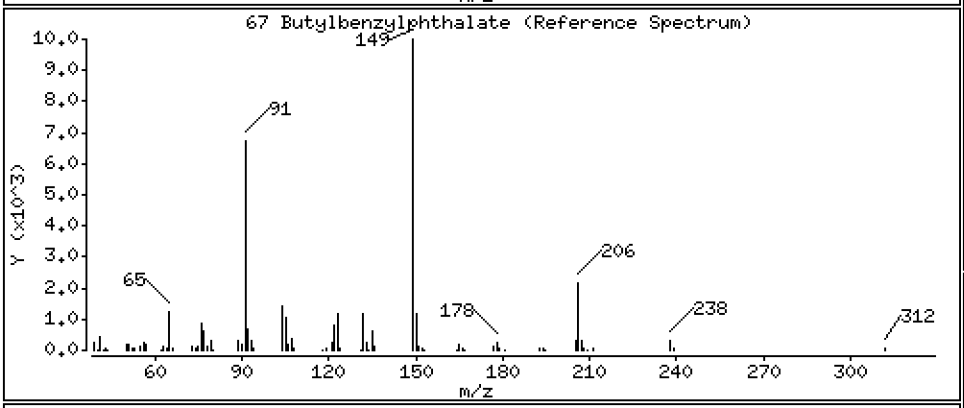
Concentration: 6.384 ug/mL

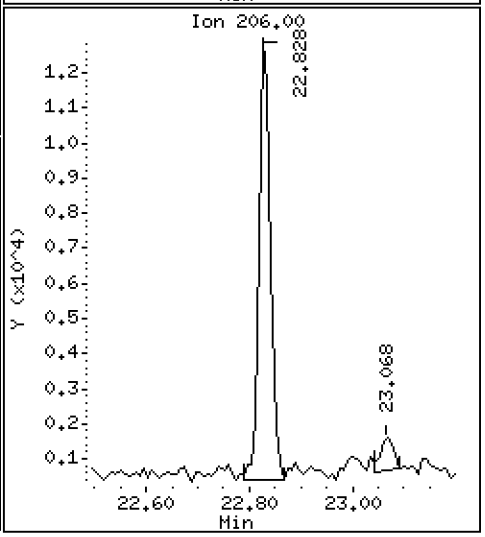


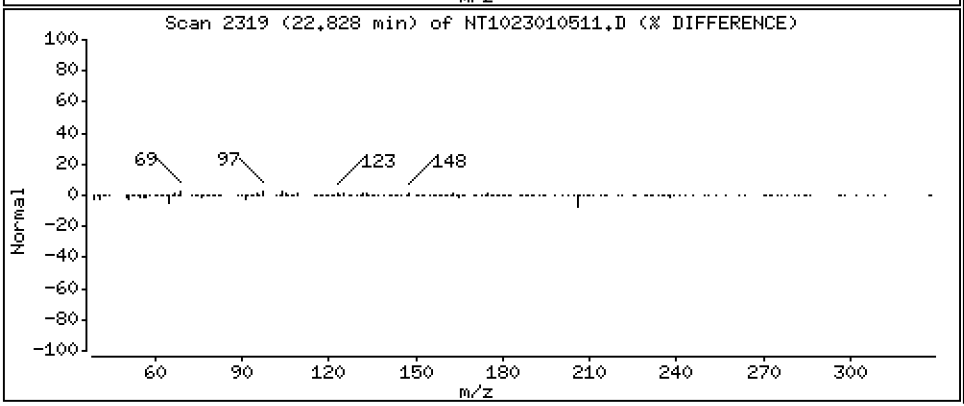












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010511.D

Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

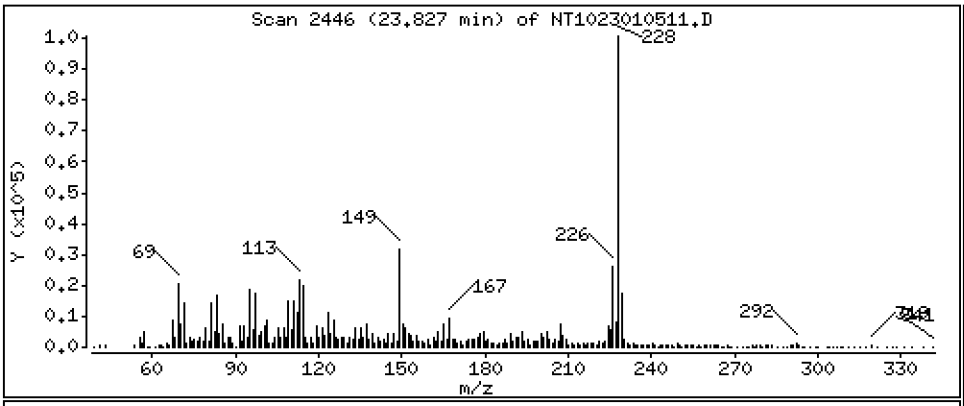
Operator: VTS

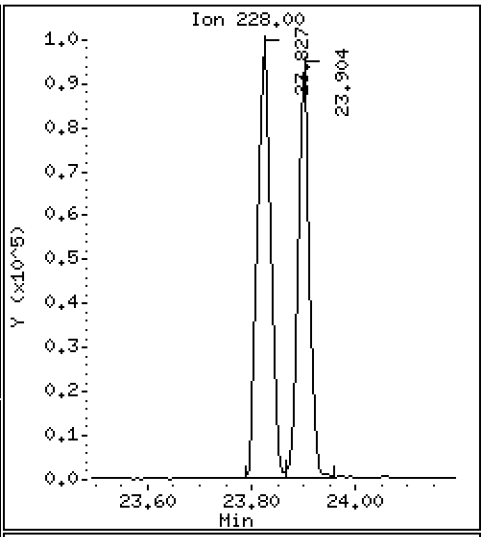
Column phase: ZB-5msi

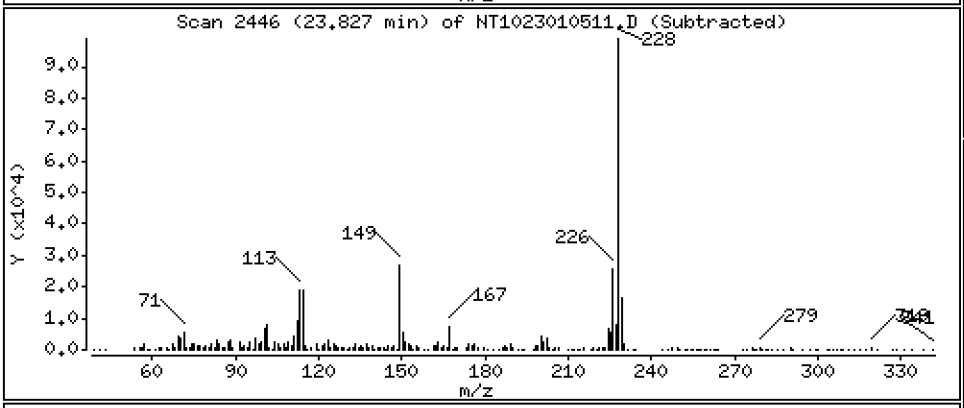
Column diameter: 0.25

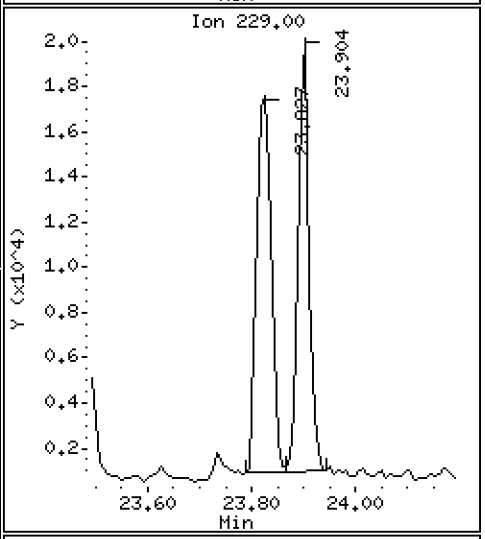
68 Benzo(a)anthracene

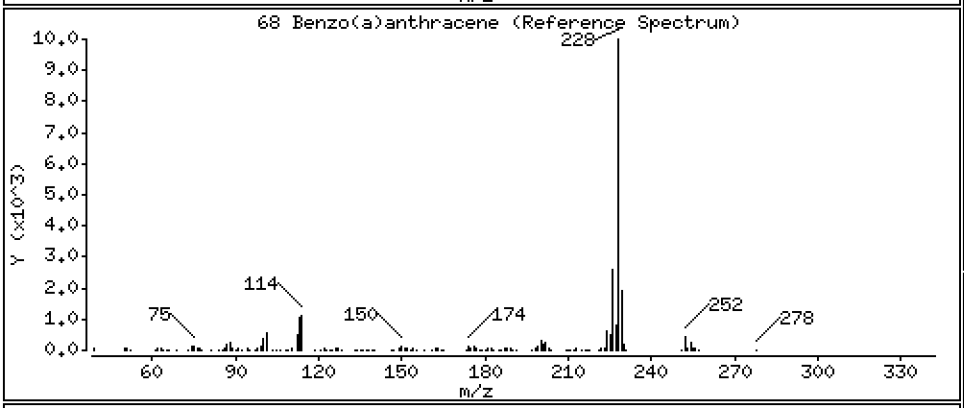
Concentration: 6.473 ug/mL

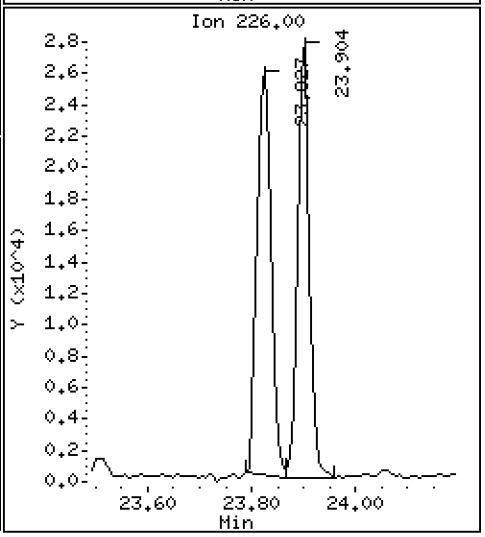


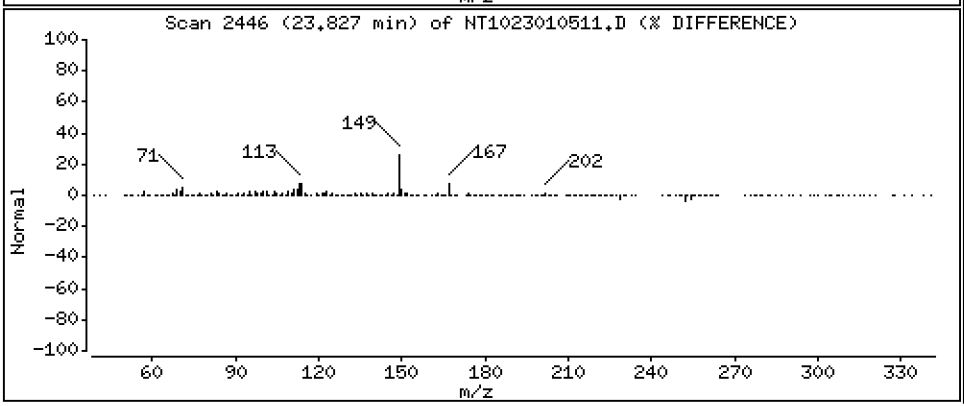












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

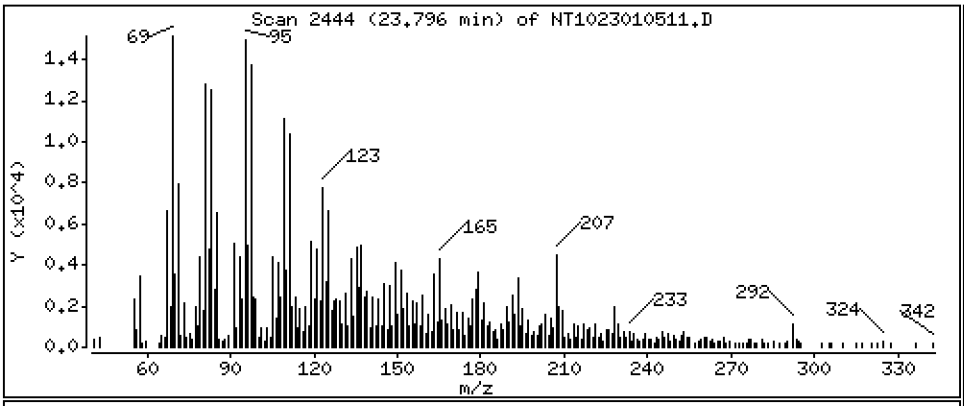
Operator: VTS

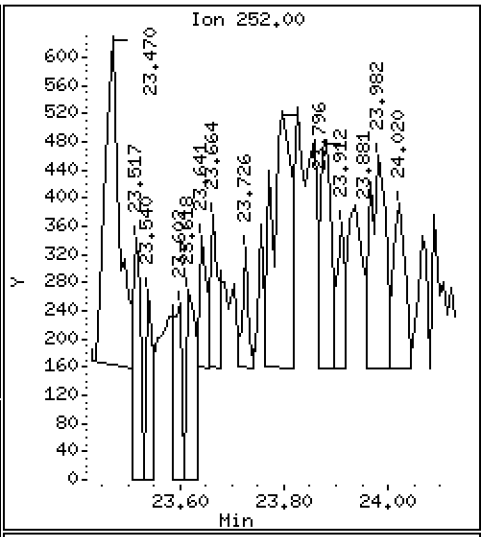
Column phase: ZB-5msi

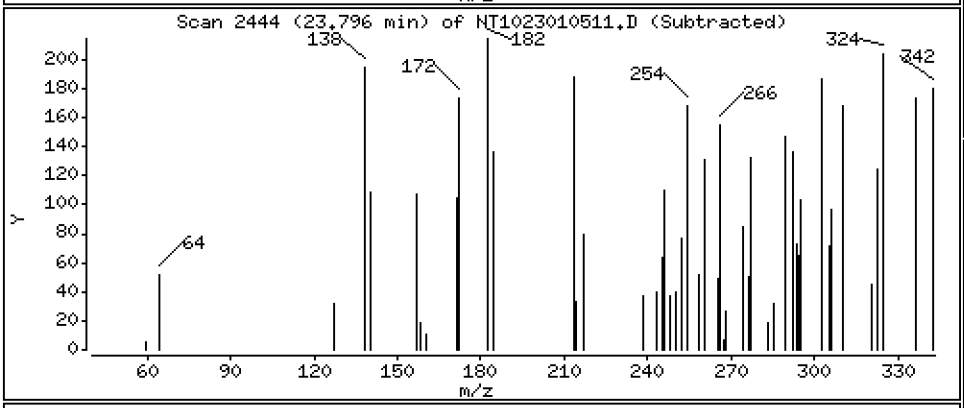
Column diameter: 0.25

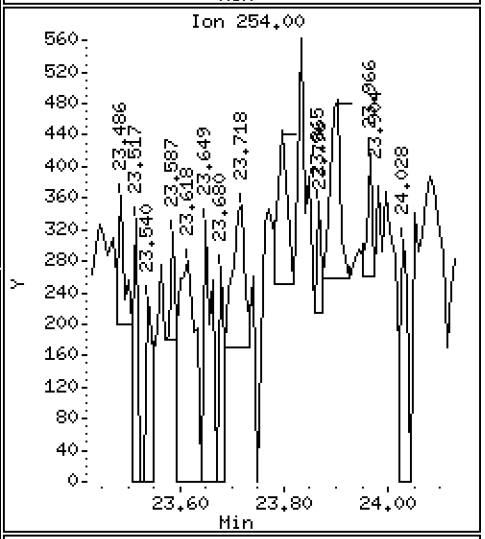
70 3,3'-Dichlorobenzidine

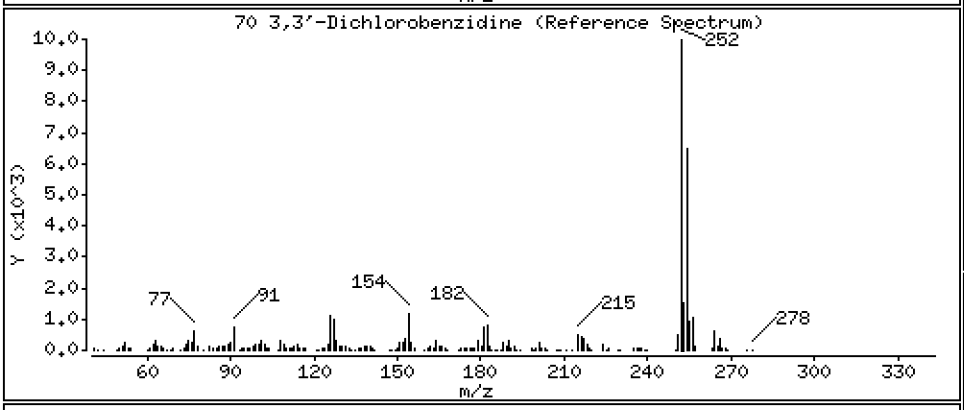
Concentration: 0.1064 ug/mL

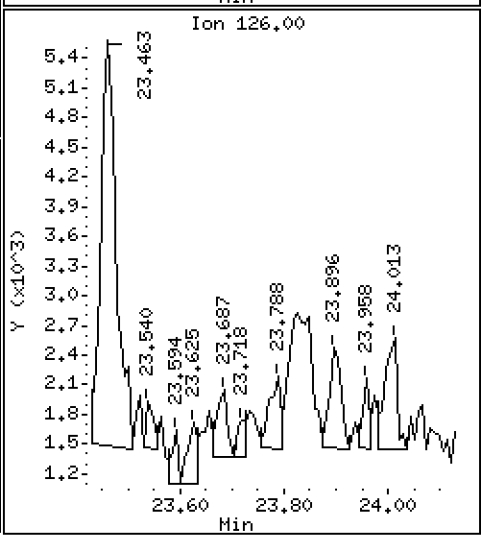


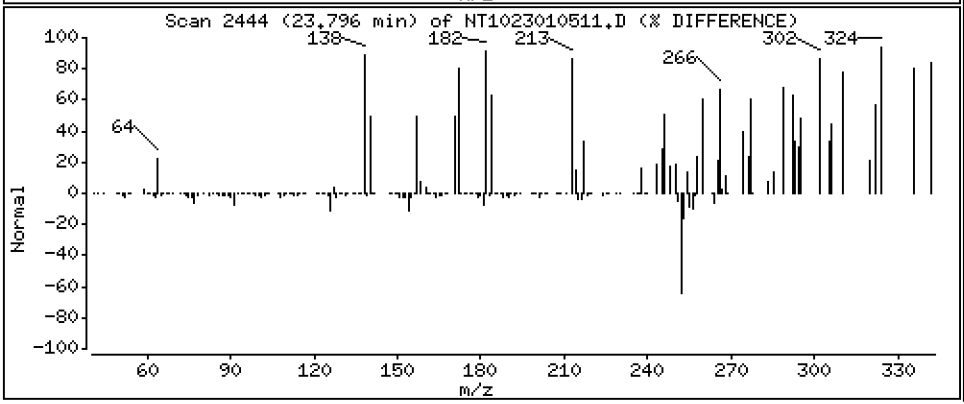












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

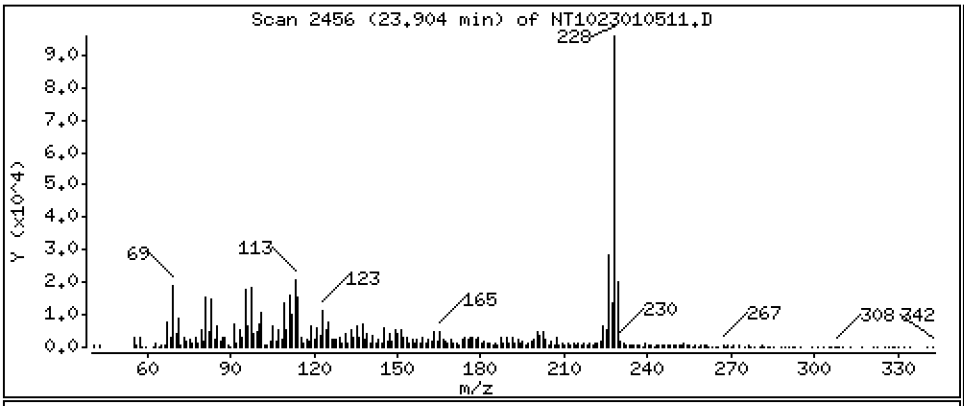
Operator: VTS

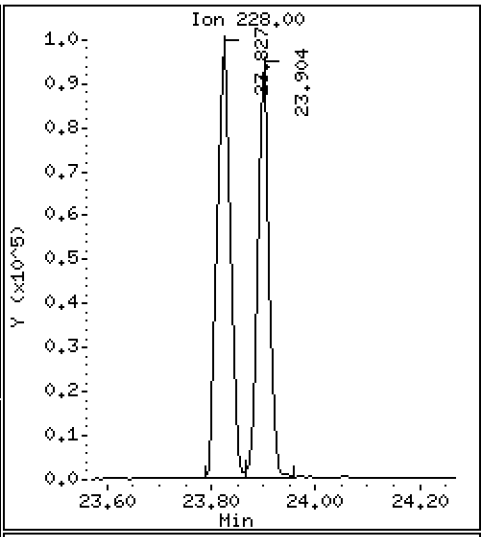
Column phase: ZB-5msi

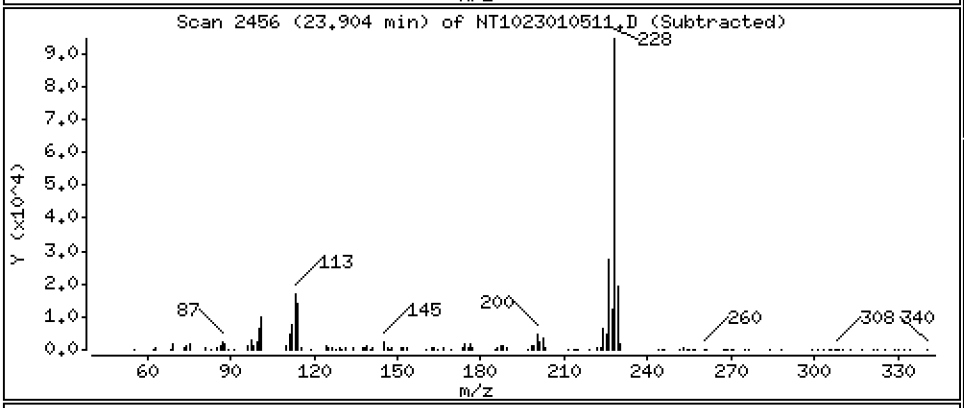
Column diameter: 0.25

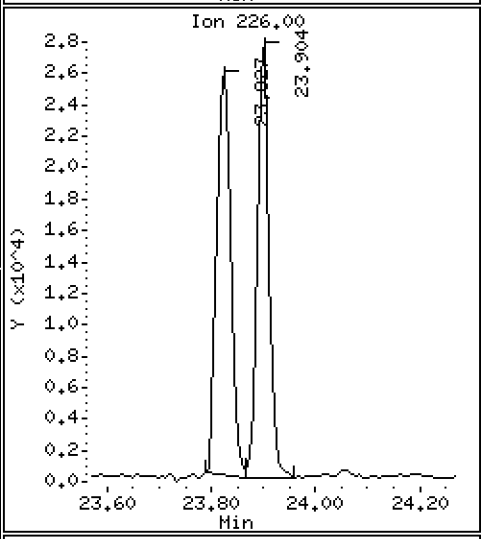
71 Chrysene

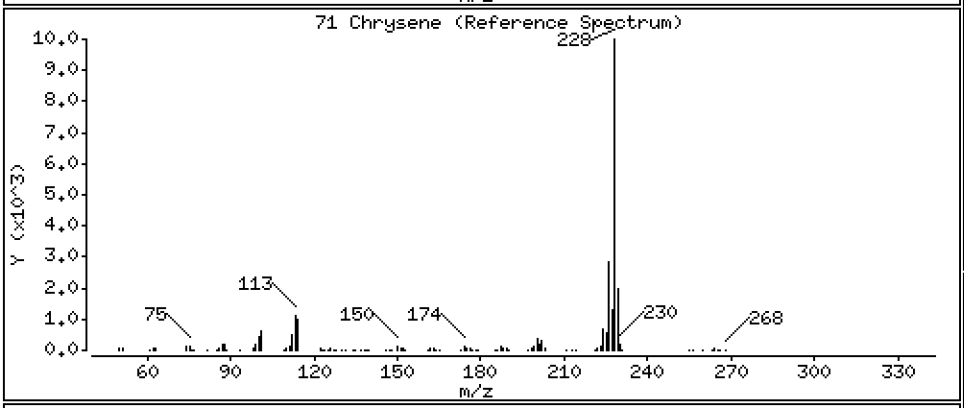
Concentration: 6.383 ug/mL

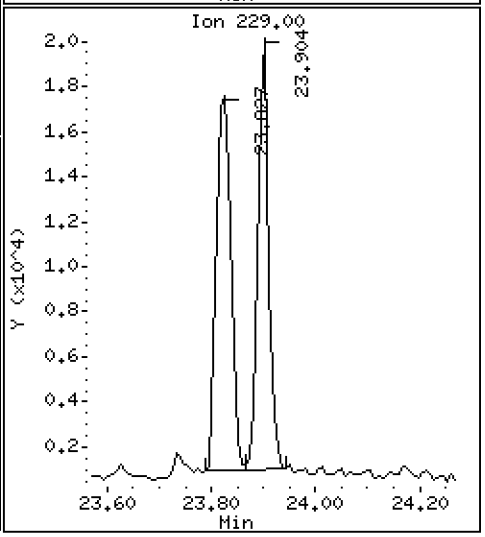


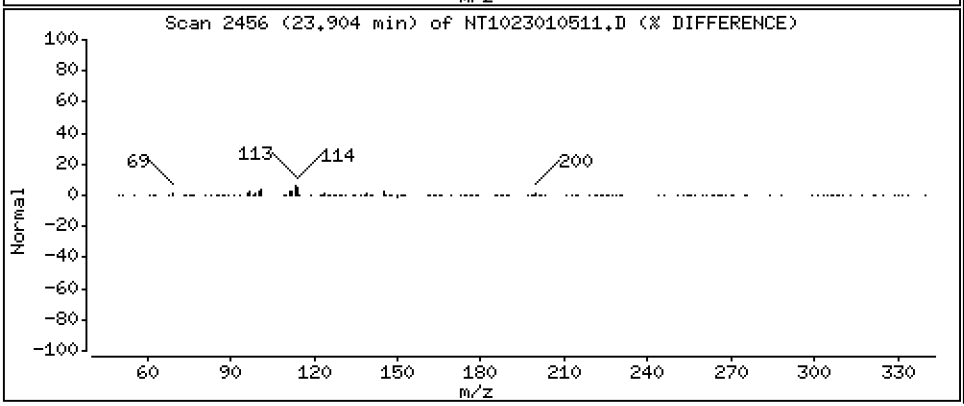












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010511.D

Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

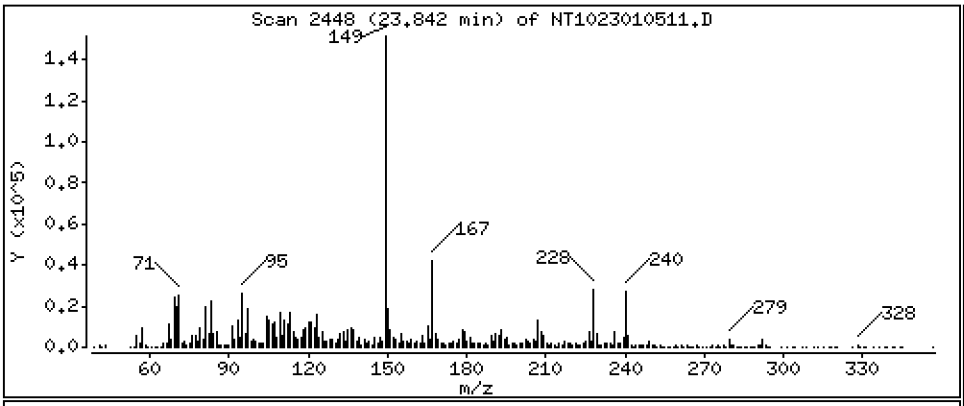
Operator: VTS

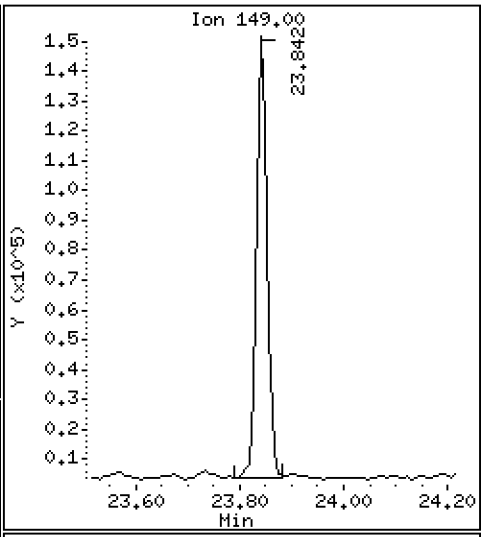
Column phase: ZB-5msi

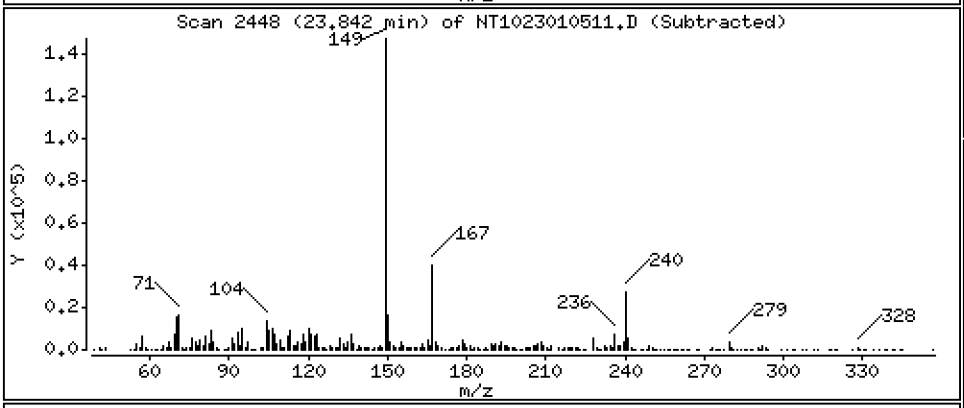
Column diameter: 0.25

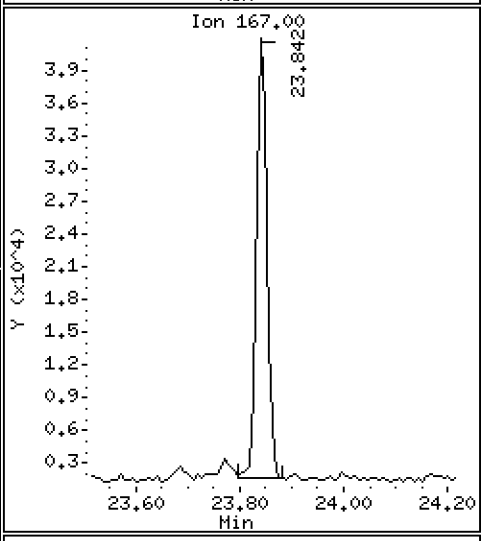
72 bis(2-Ethylhexyl)phthalate

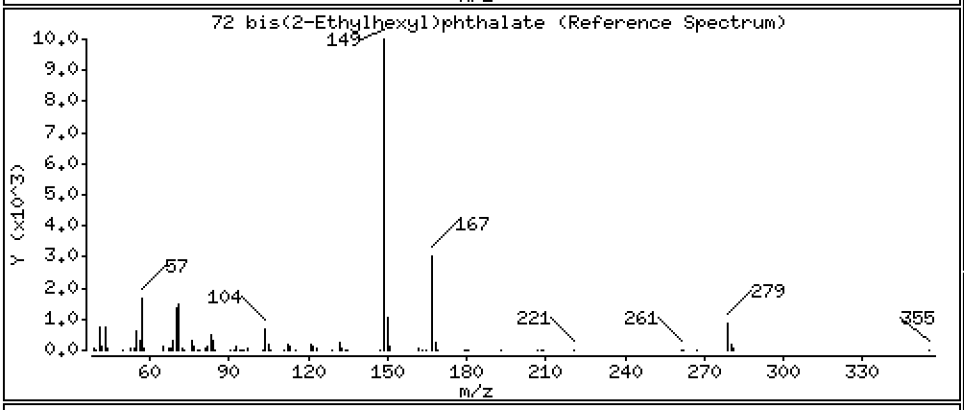
Concentration: 5.697 ug/mL

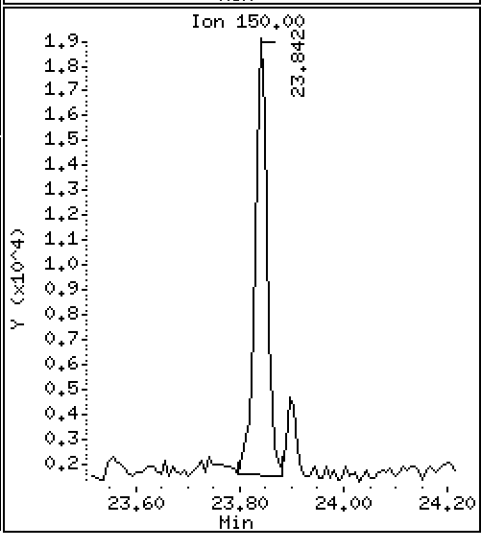


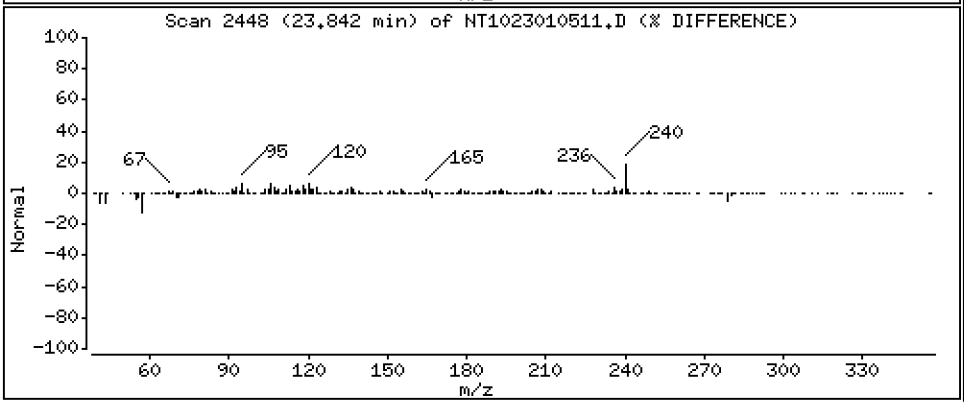












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

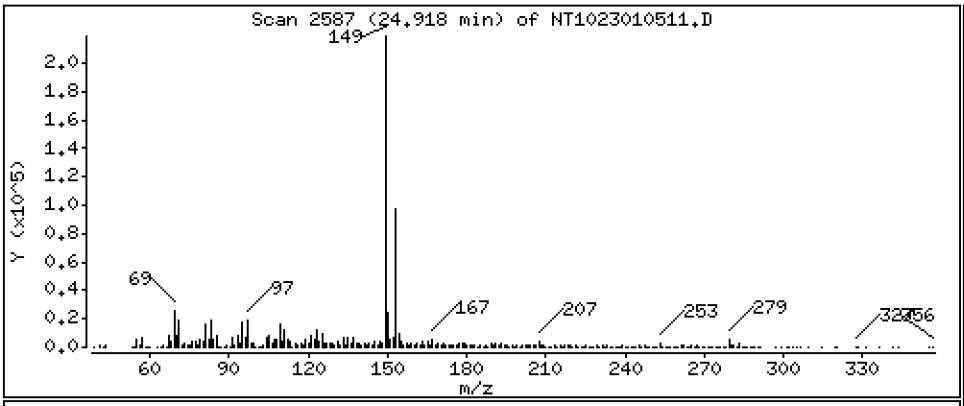
Operator: VTS

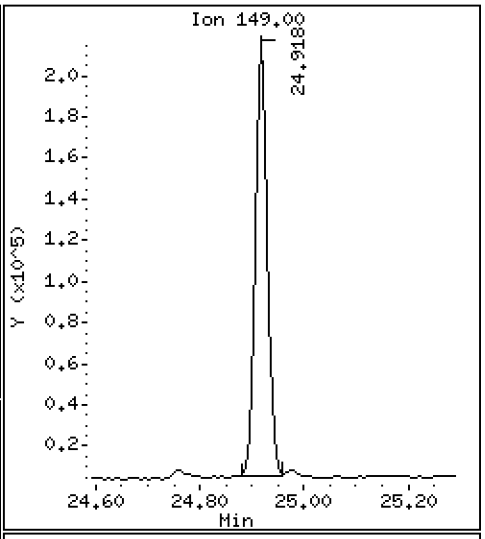
Column phase: ZB-5msi

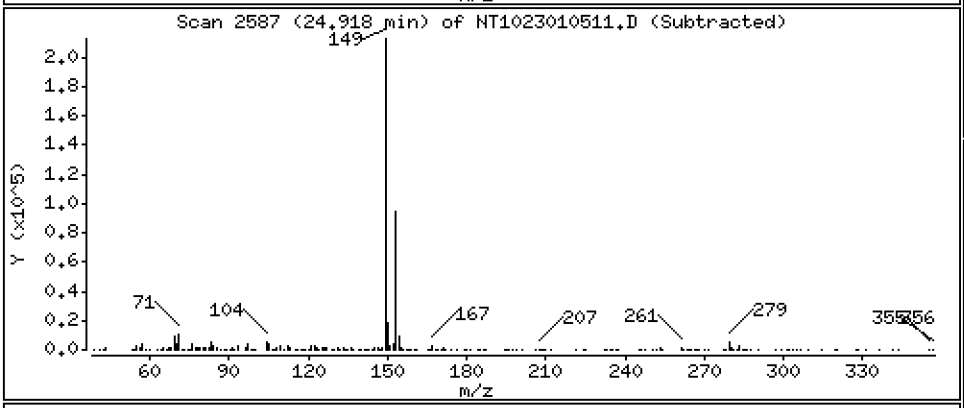
Column diameter: 0.25

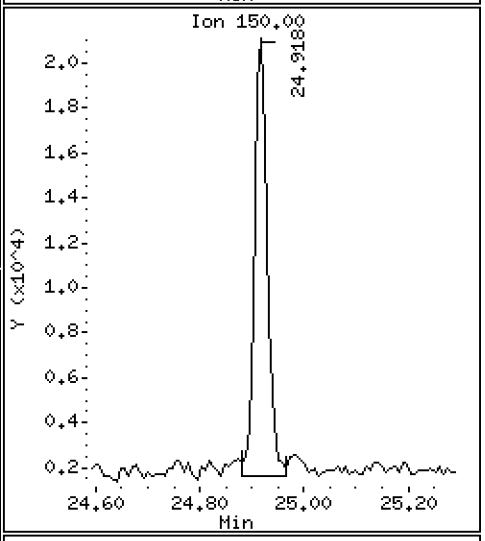
73 Di-n-octylphthalate

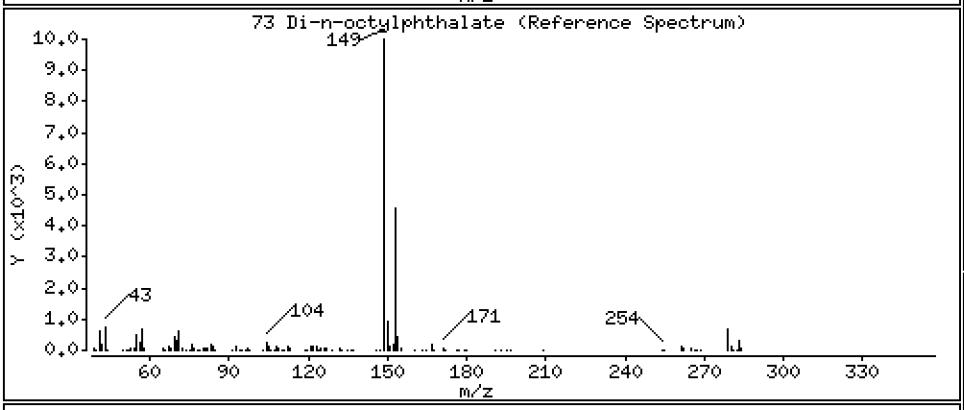
Concentration: 5.100 ug/mL

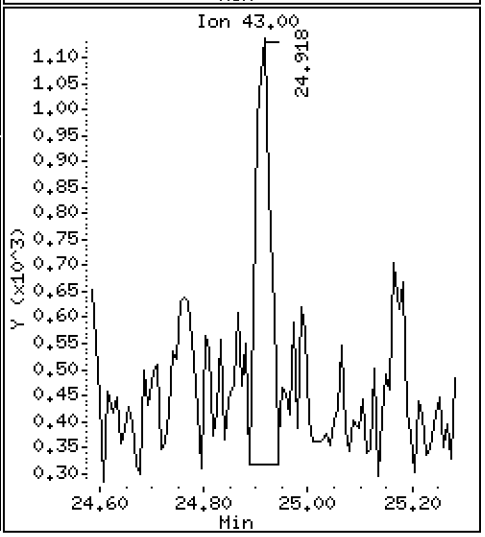


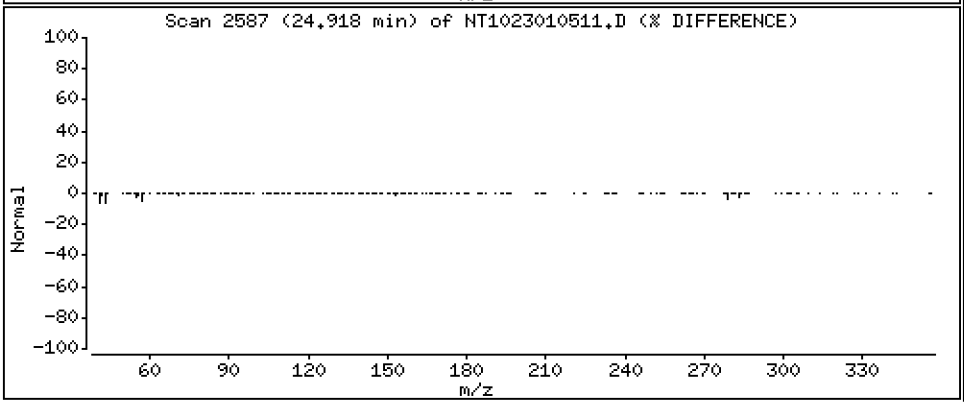












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

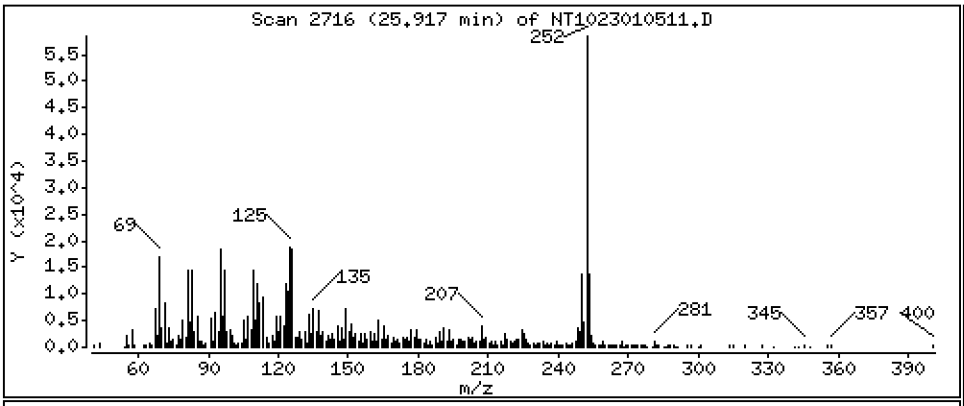
Operator: VTS

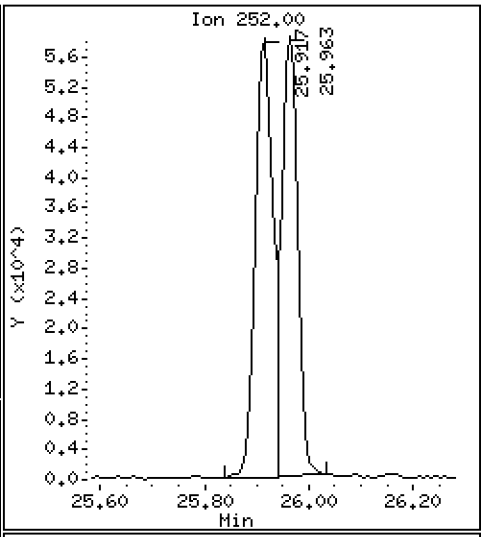
Column phase: ZB-5msi

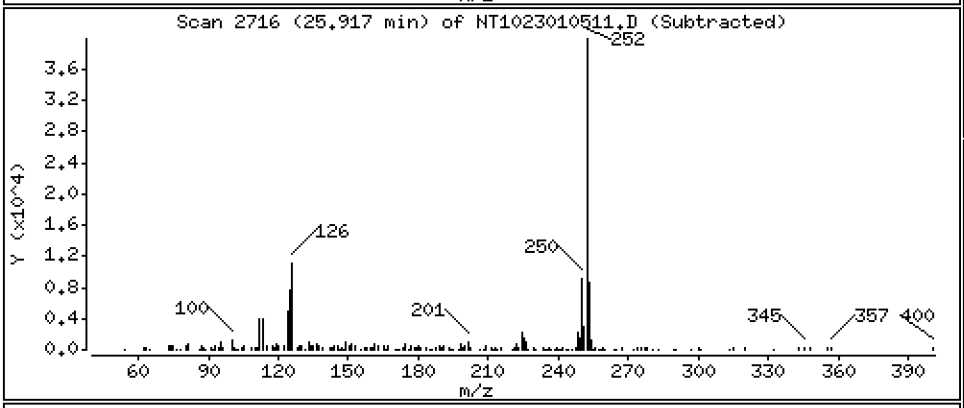
Column diameter: 0.25

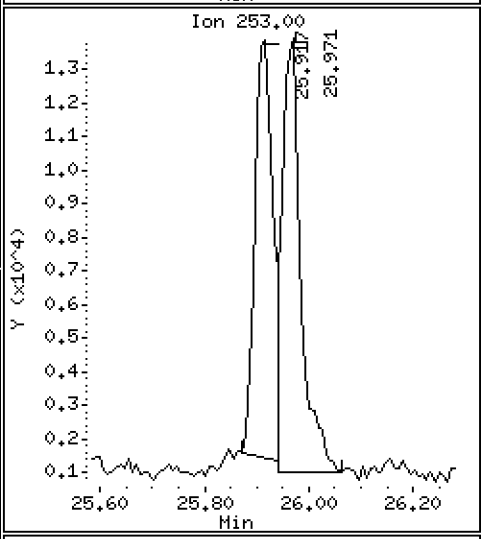
74 Benzo(b)fluoranthene

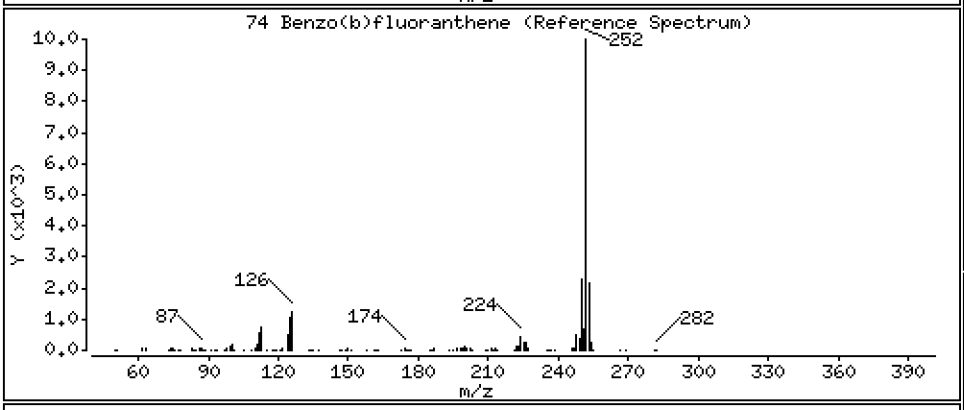
Concentration: 4.687 ug/mL

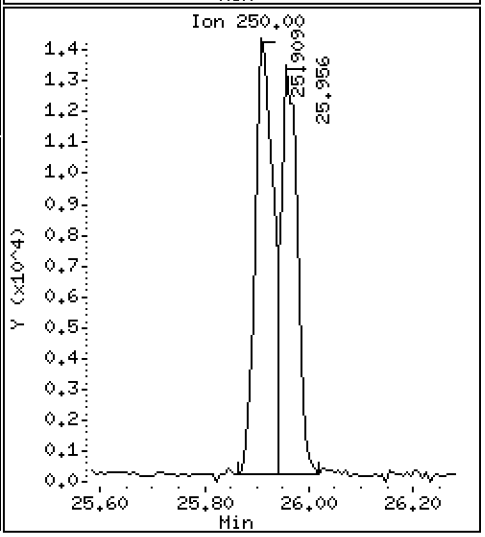


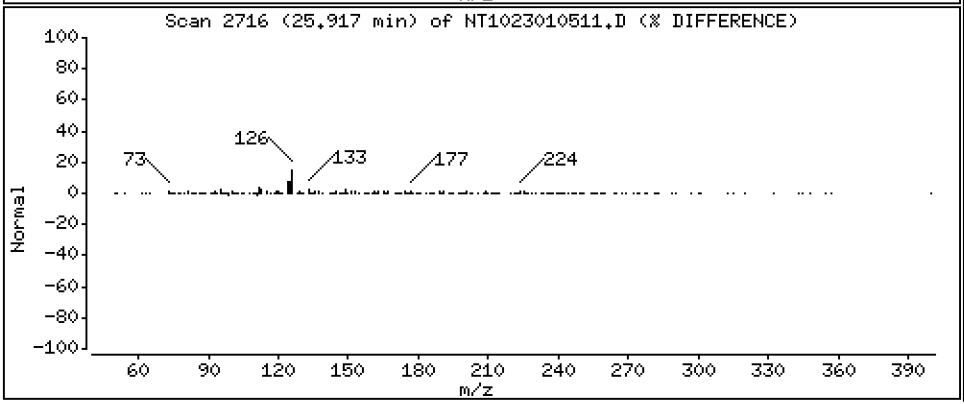












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

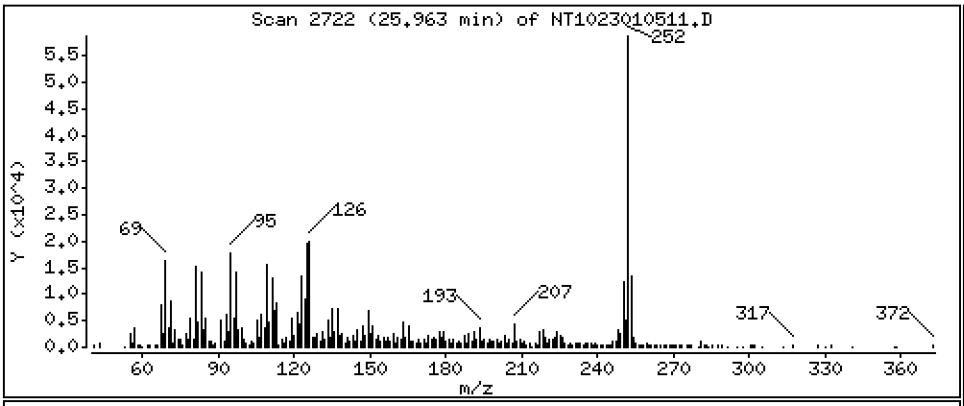
Operator: VTS

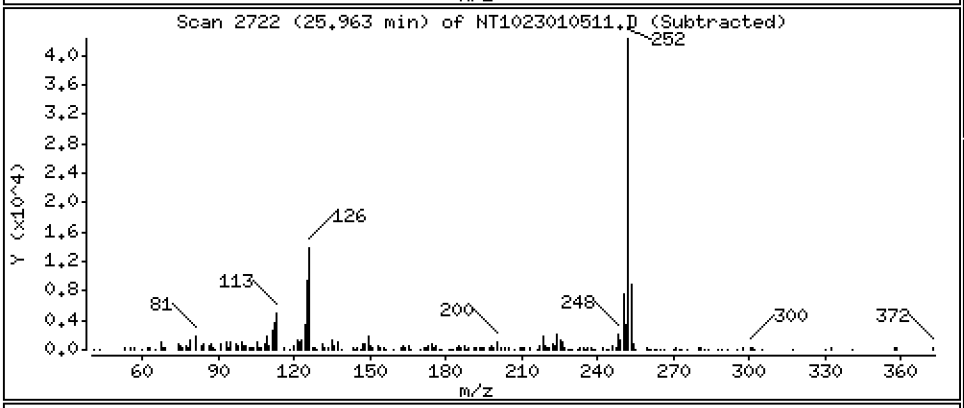
Column phase: ZB-5msi

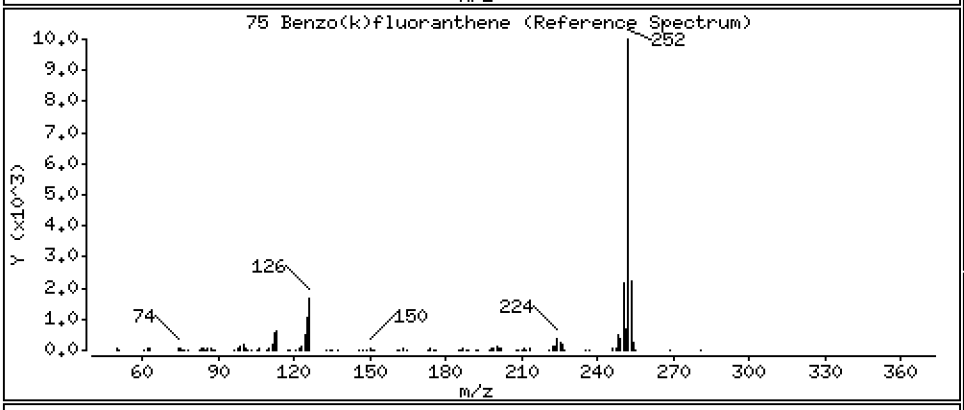
Column diameter: 0.25

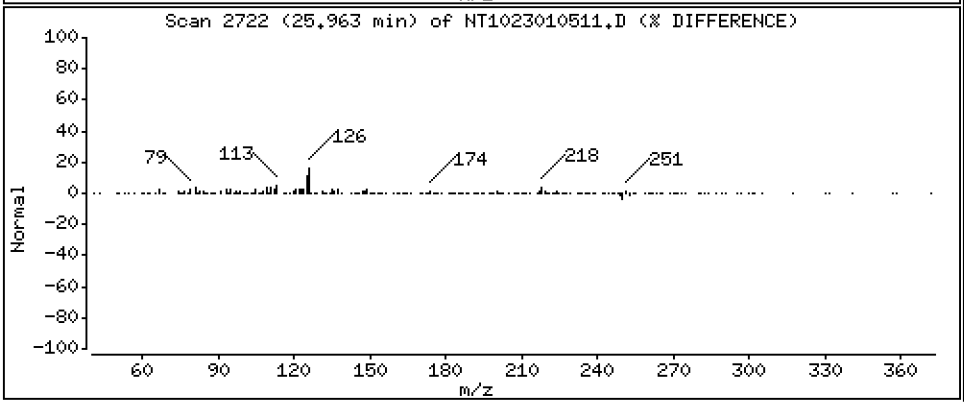
75 Benzo(k)fluoranthene

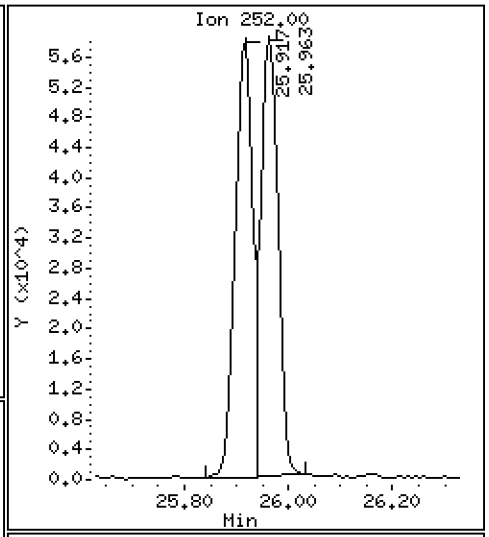
Concentration: 4.608 ug/mL

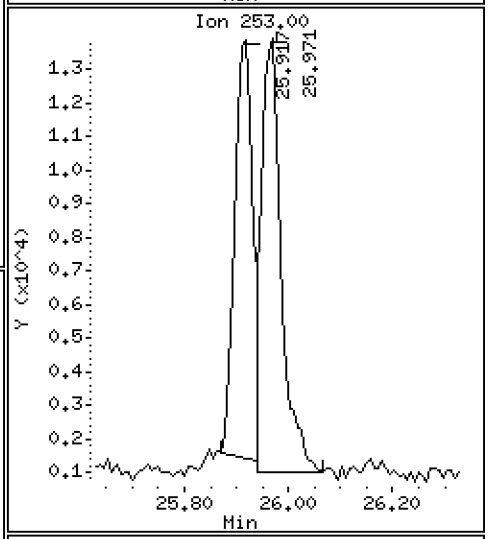


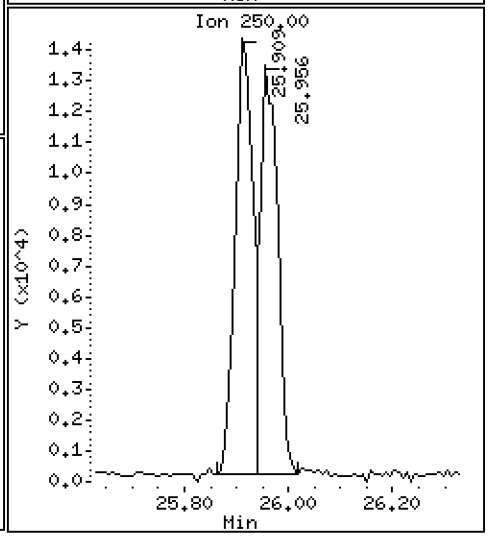












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

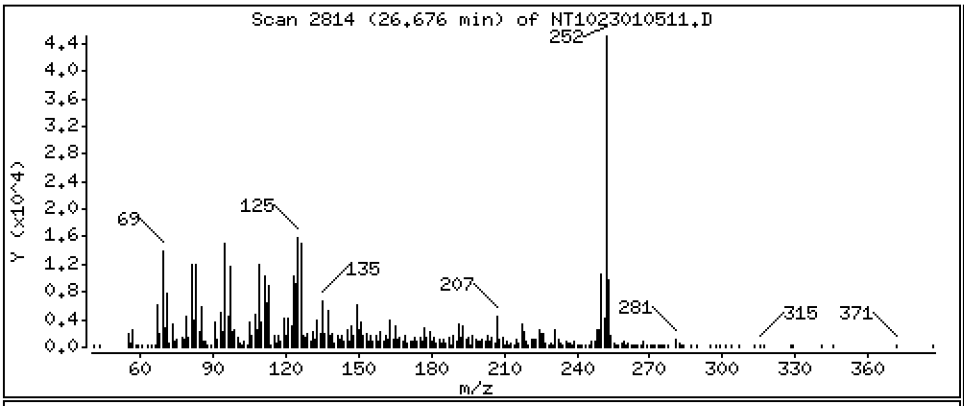
Operator: VTS

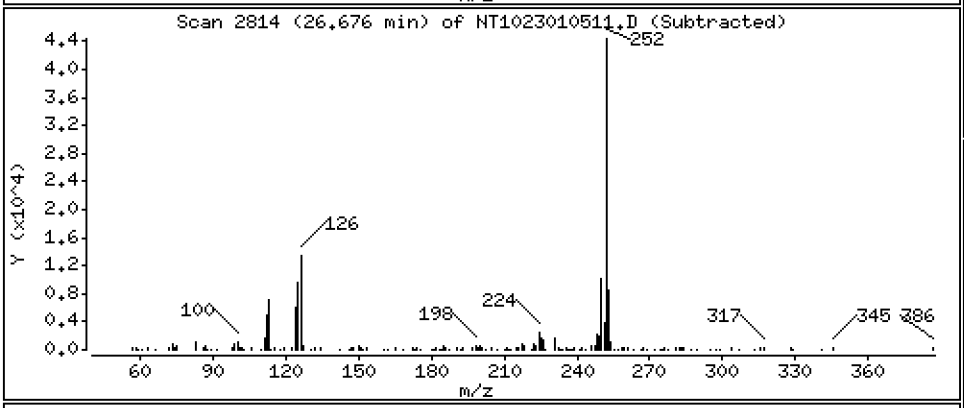
Column phase: ZB-5msi

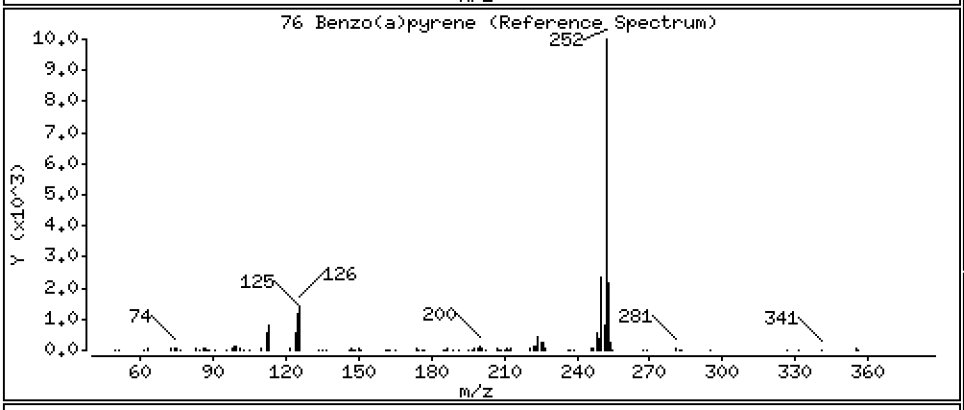
Column diameter: 0.25

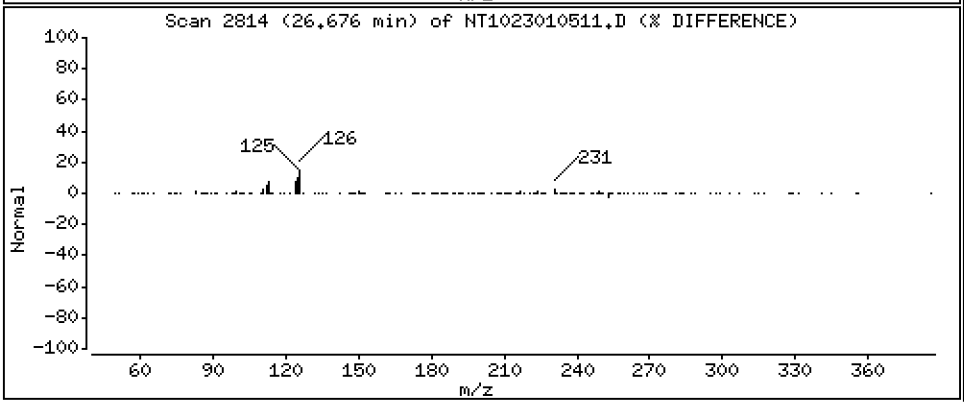
76 Benzo(a)pyrene

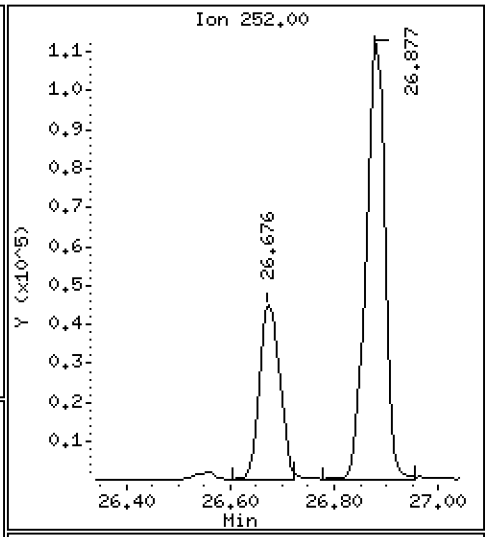
Concentration: 4.366 ug/mL

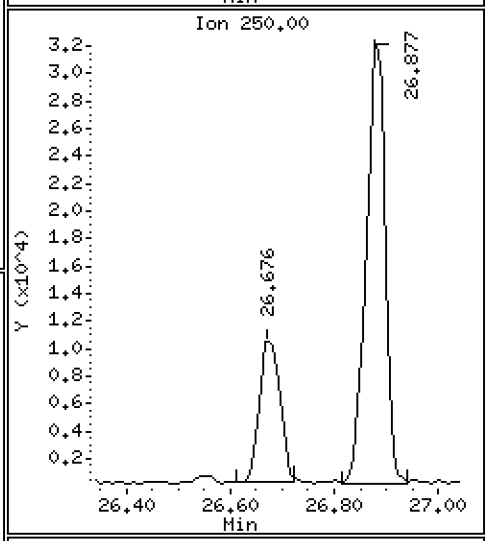


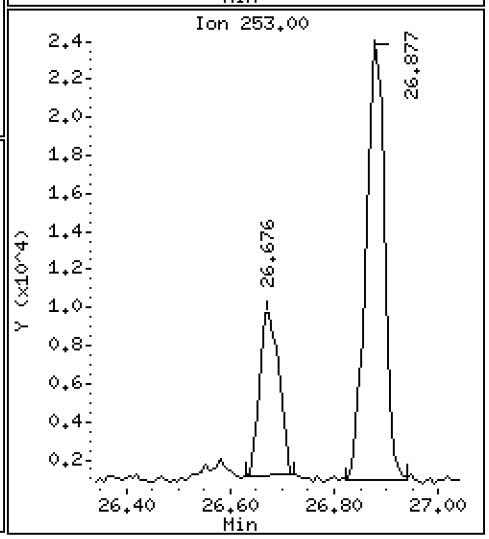












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

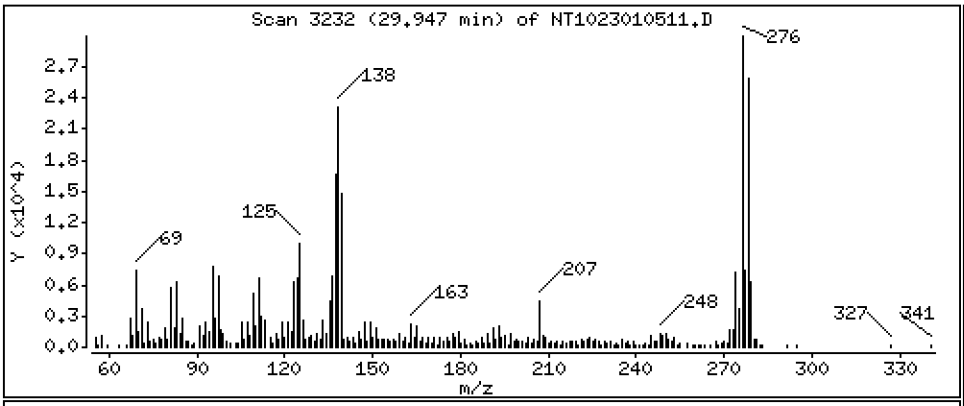
Operator: VTS

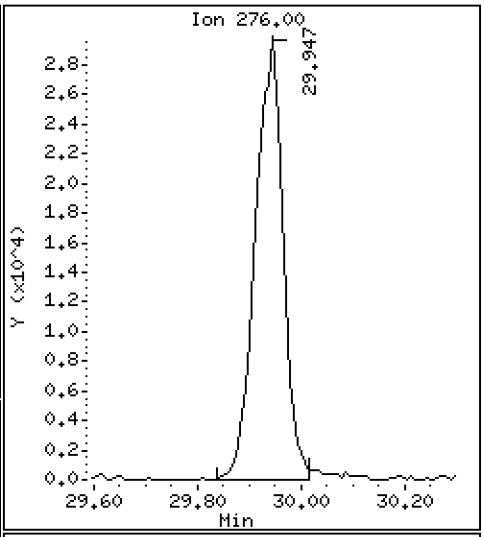
Column phase: ZB-5msi

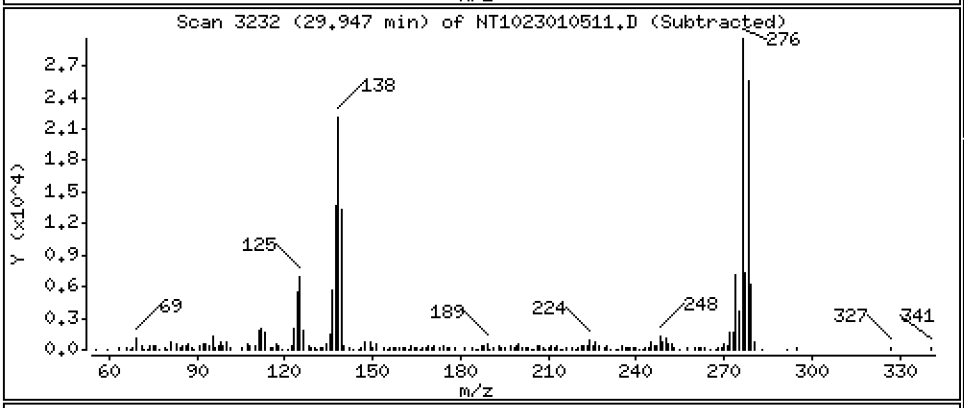
Column diameter: 0.25

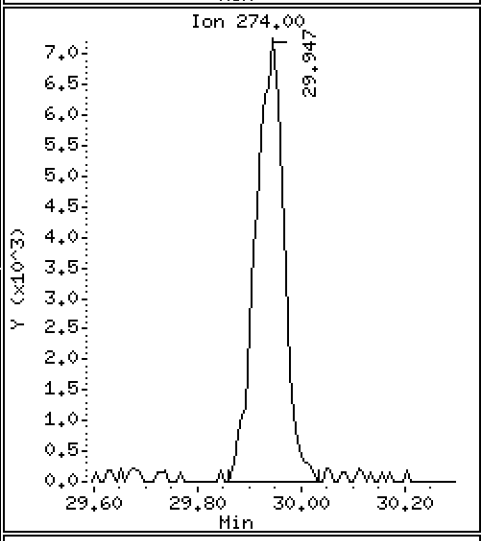
78 Indeno(1,2,3-cd)pyrene

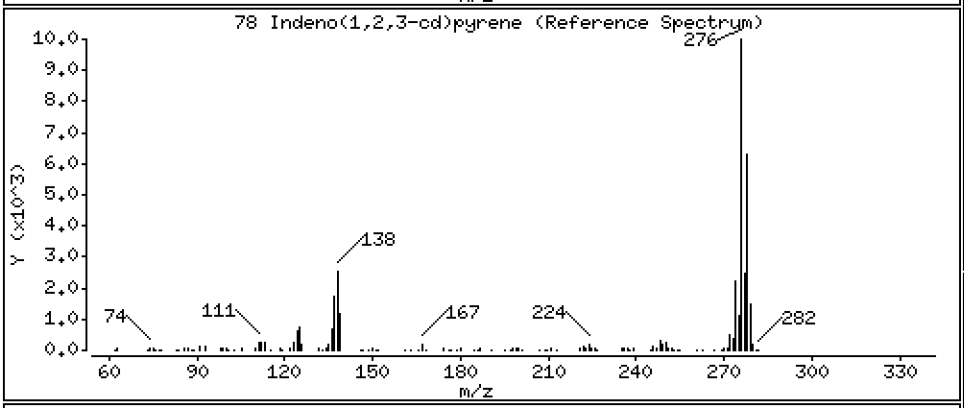
Concentration: 4.924 ug/mL

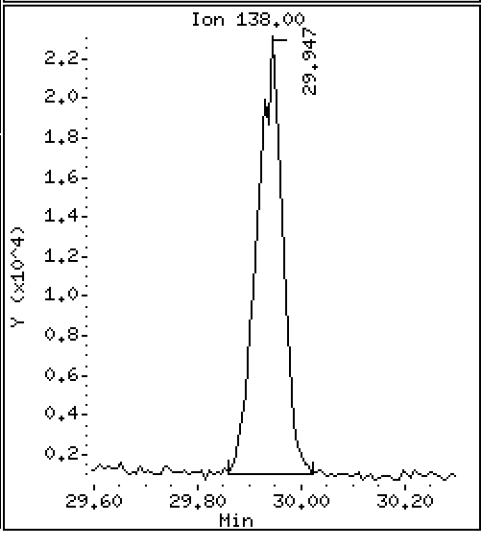


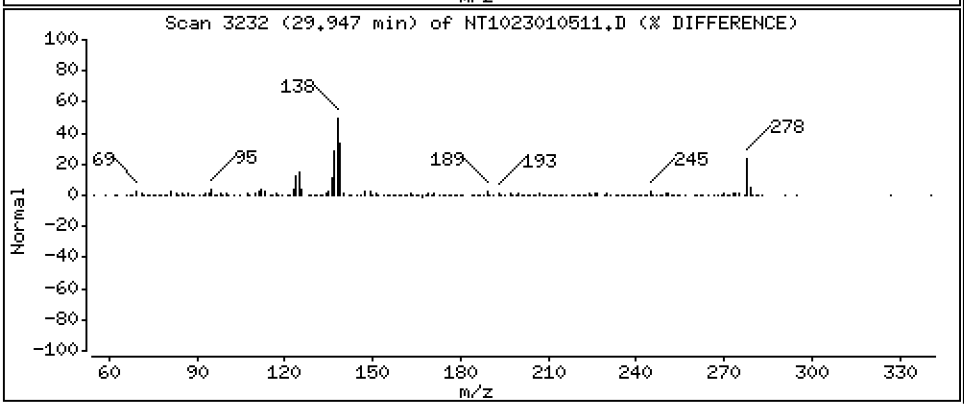












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

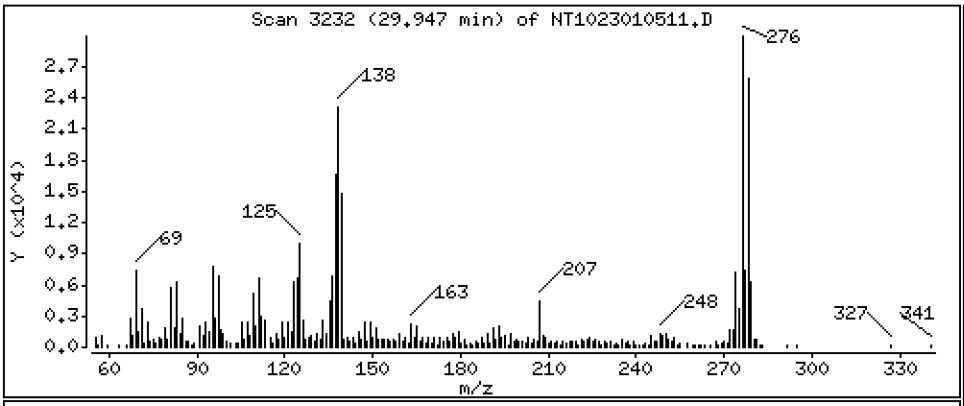
Operator: VTS

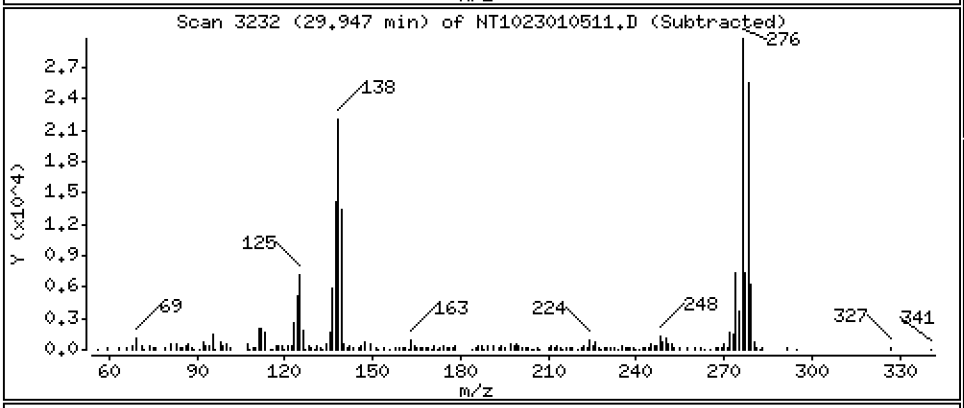
Column phase: ZB-5msi

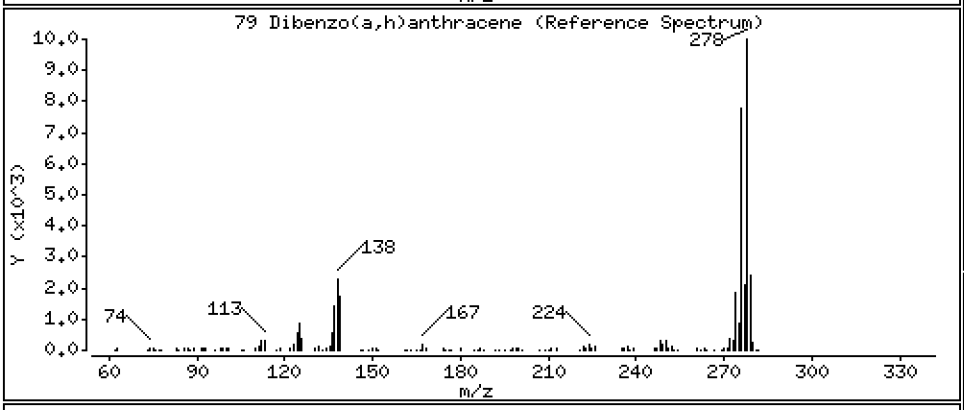
Column diameter: 0.25

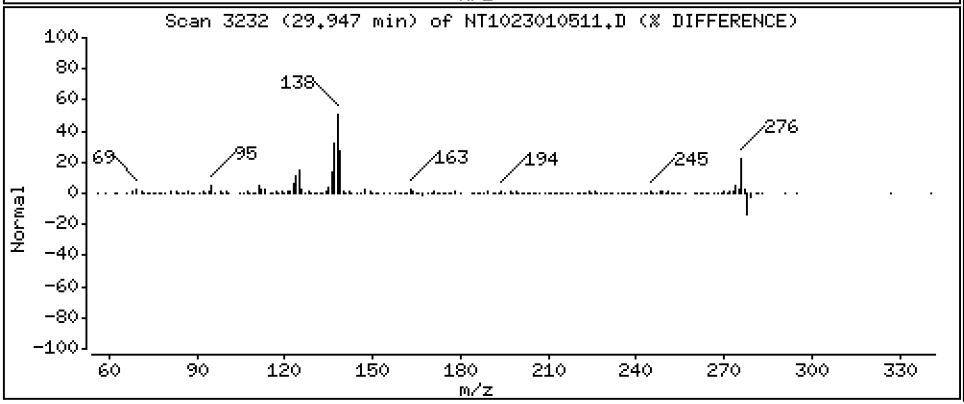
79 Dibenzo(a,h)anthracene

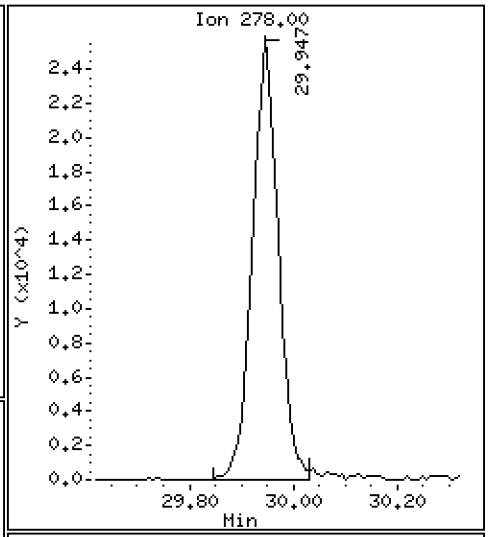
Concentration: 5.081 ug/mL

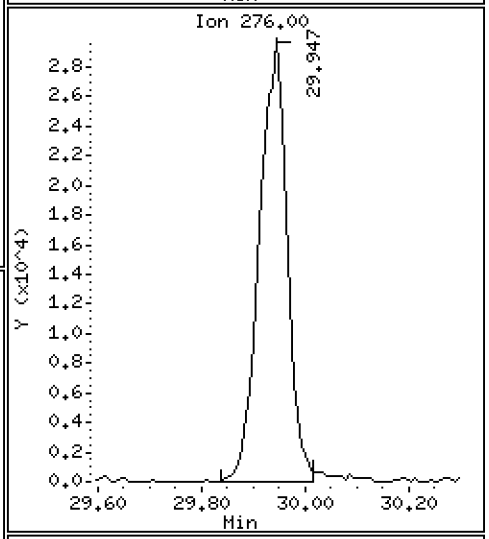


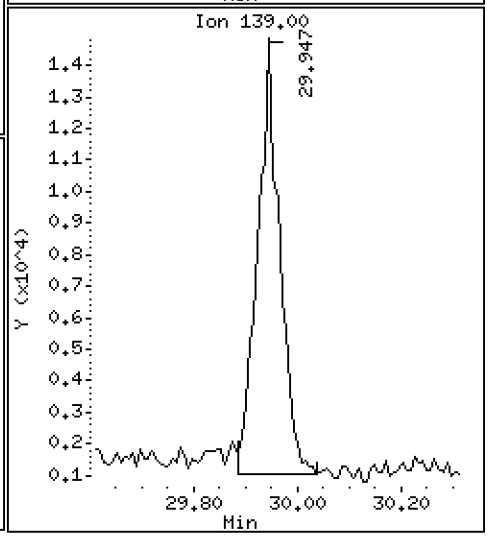












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

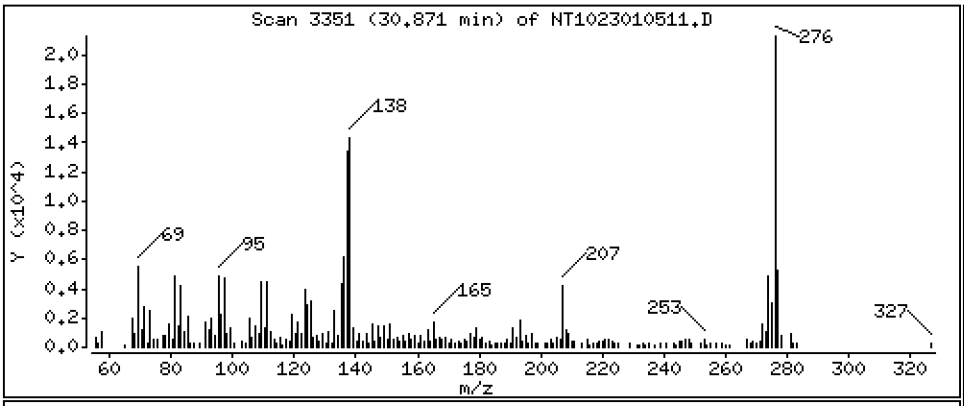
Operator: VTS

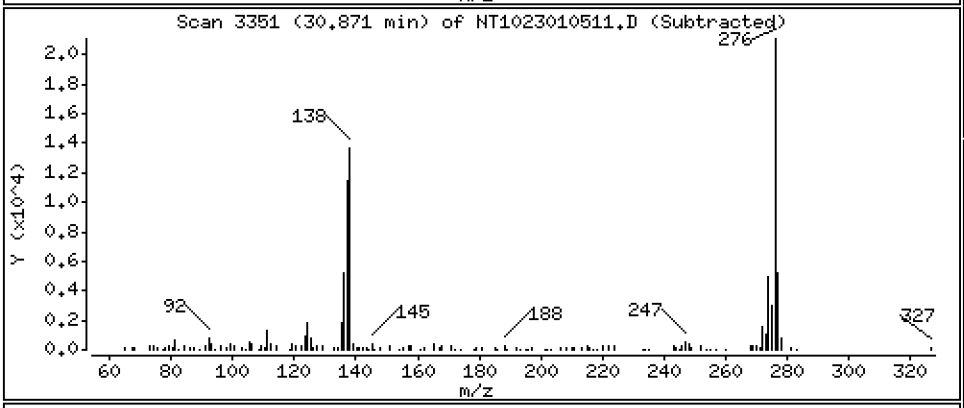
Column phase: ZB-5msi

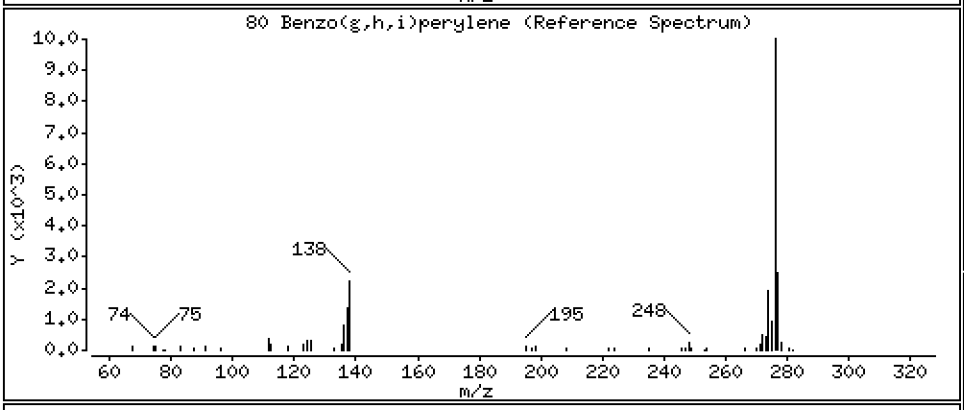
Column diameter: 0.25

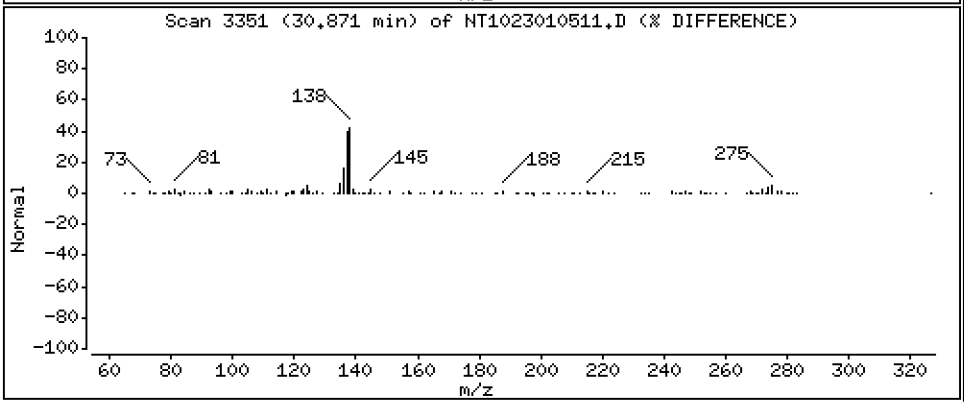
80 Benzo(g,h,i)perylene

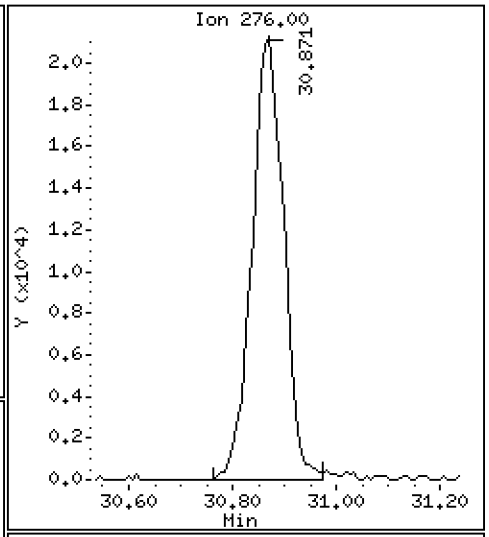
Concentration: 4.883 ug/mL

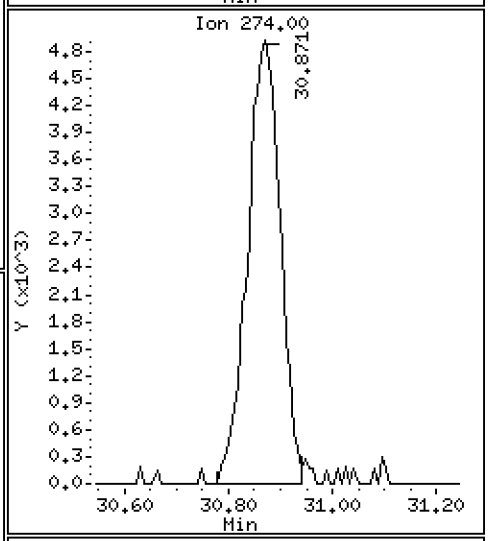


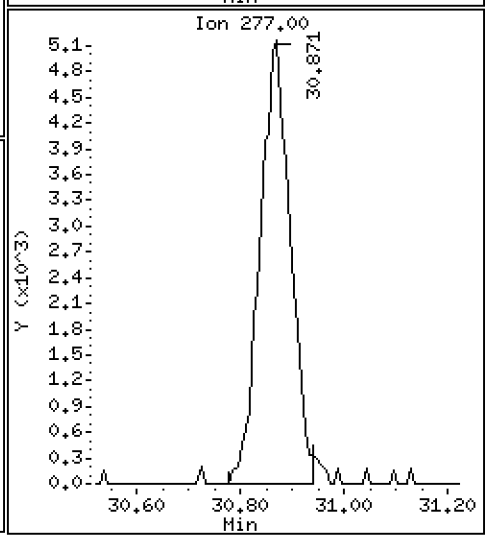












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

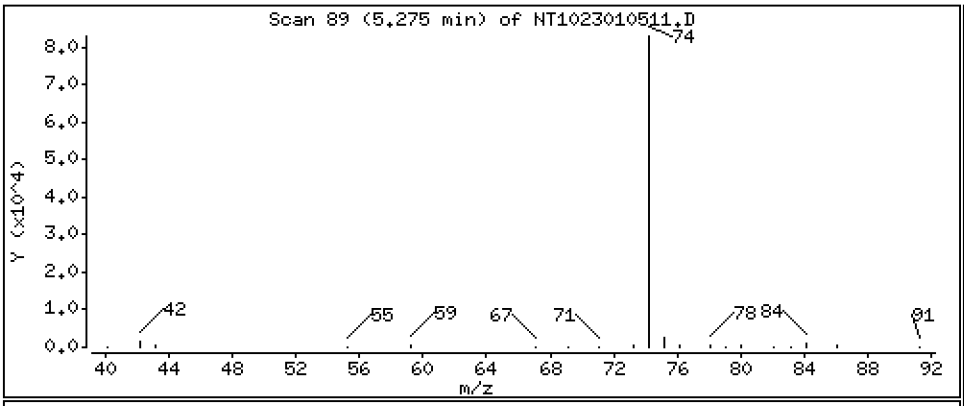
Operator: VTS

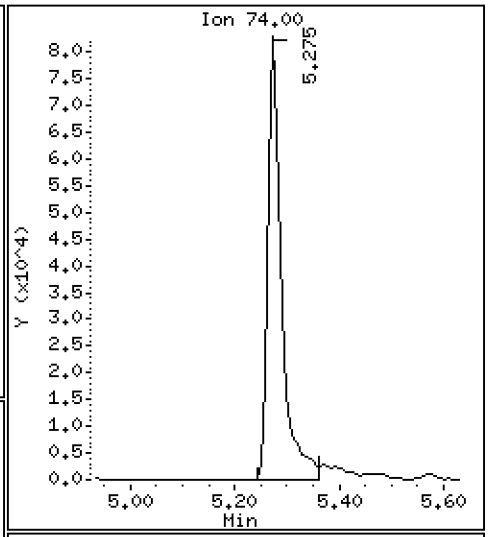
Column phase: ZB-5msi

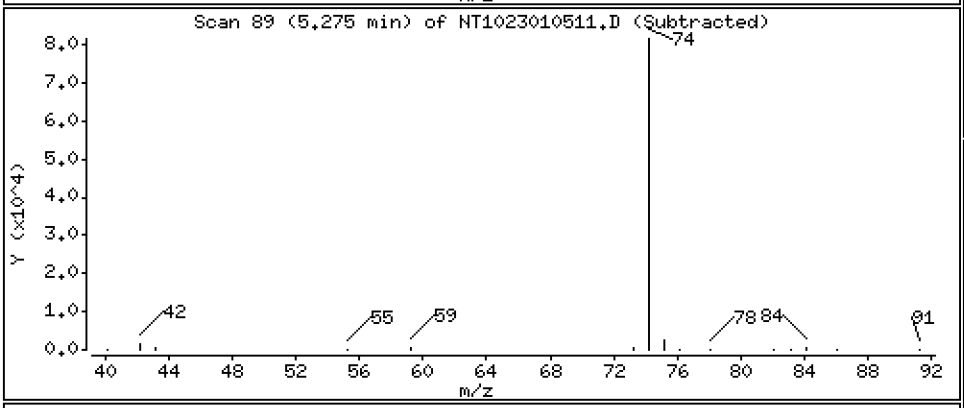
Column diameter: 0.25

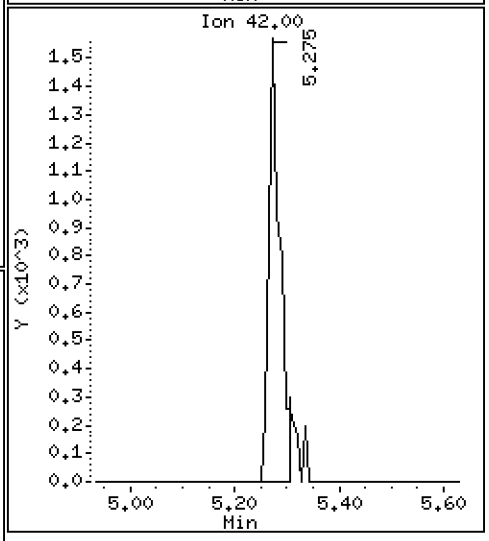
90 N-Nitrosodimethylamine

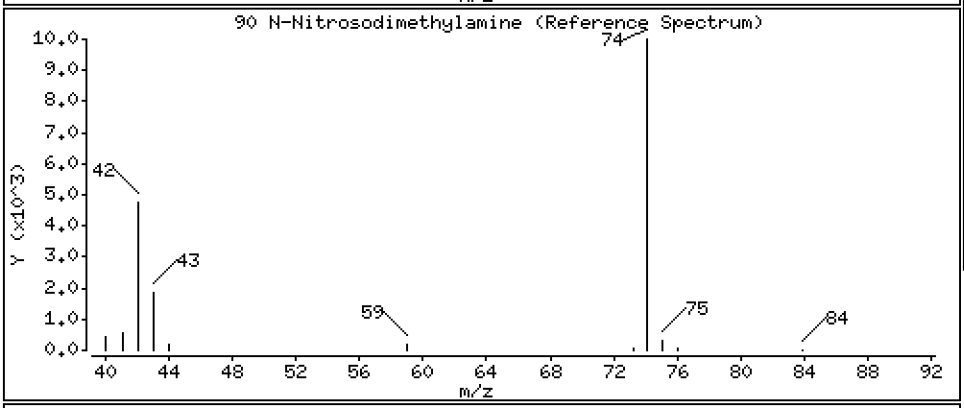
Concentration: 11.82 ug/mL

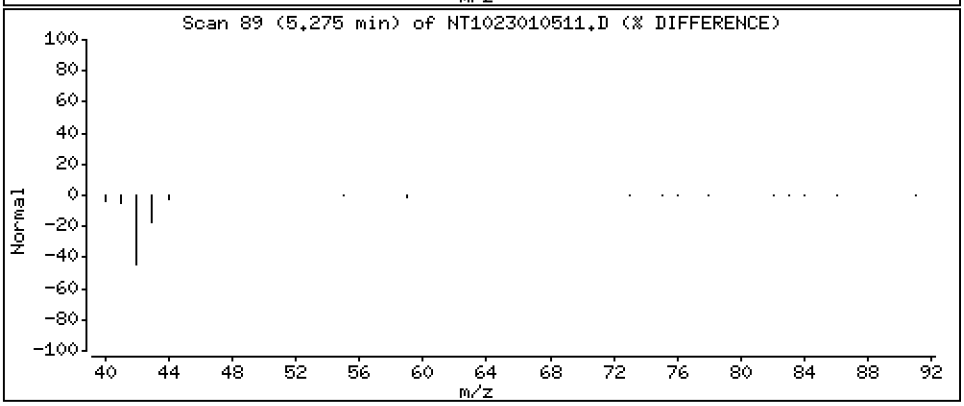












Date : 05-JAN-2023 19:48

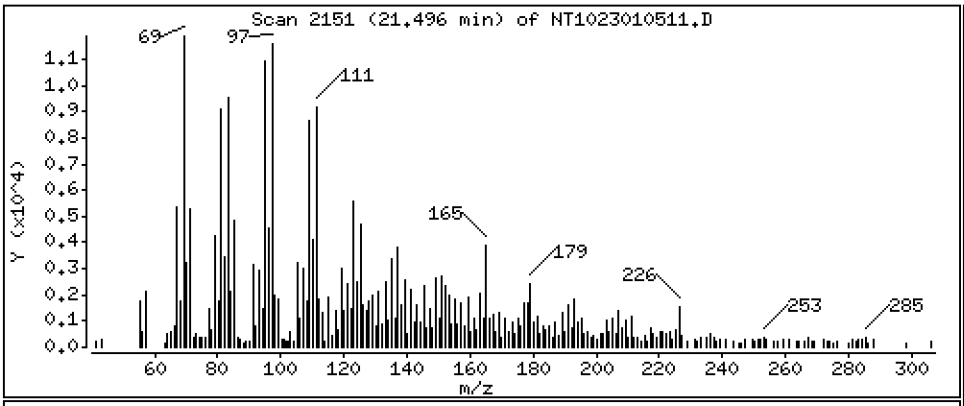
Client ID: Instrument: nt10.i

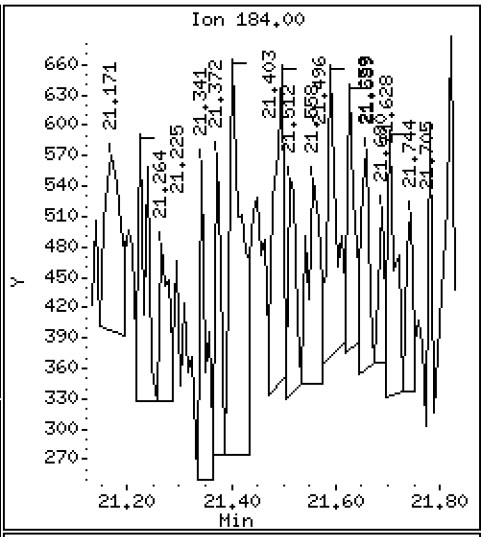
Sample Info: BKL0489-MS1

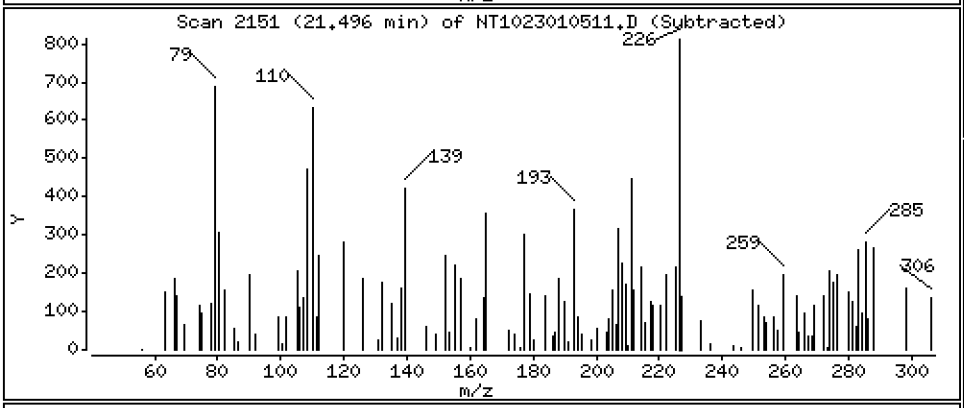
Operator: VTS

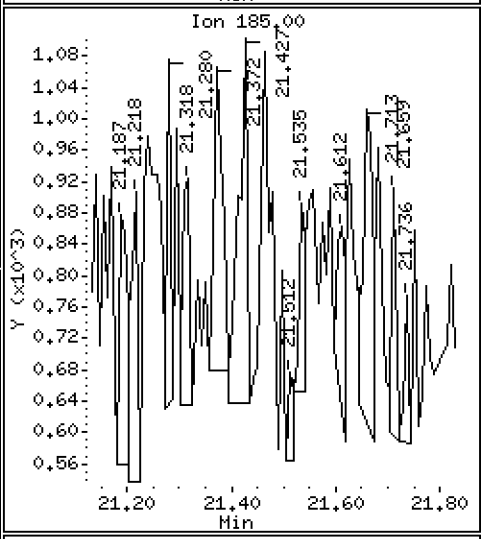
Column phase: ZB-5msi Column diameter: 0.25

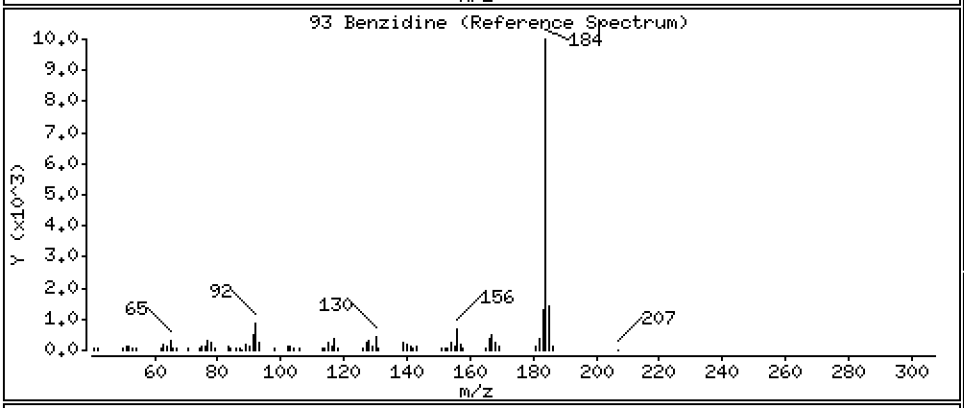
93 Benzidine Concentration: 0.02226 ug/mL

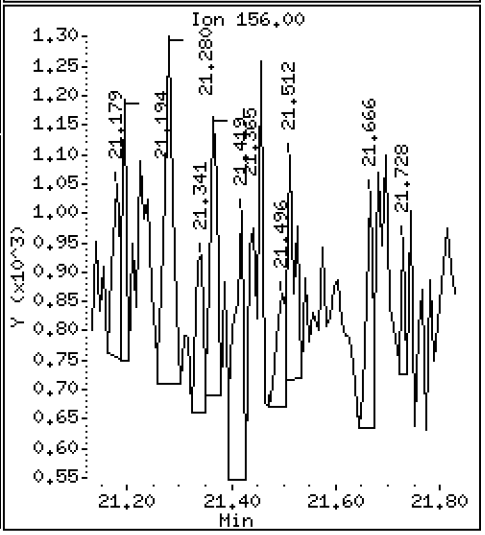


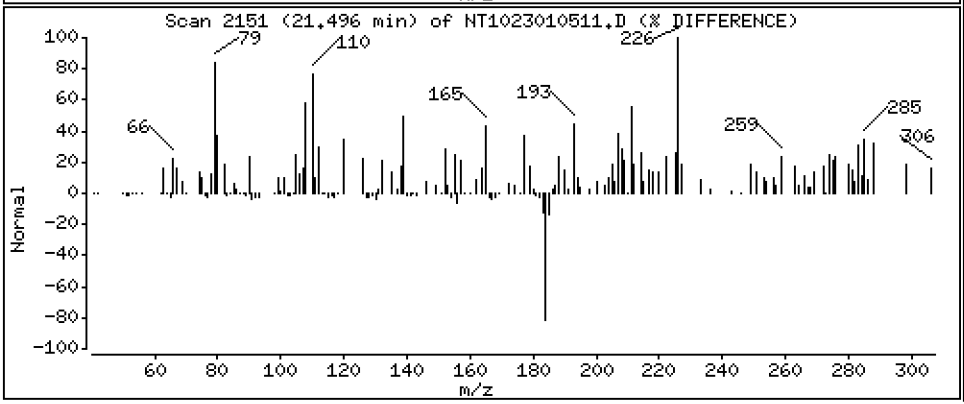












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

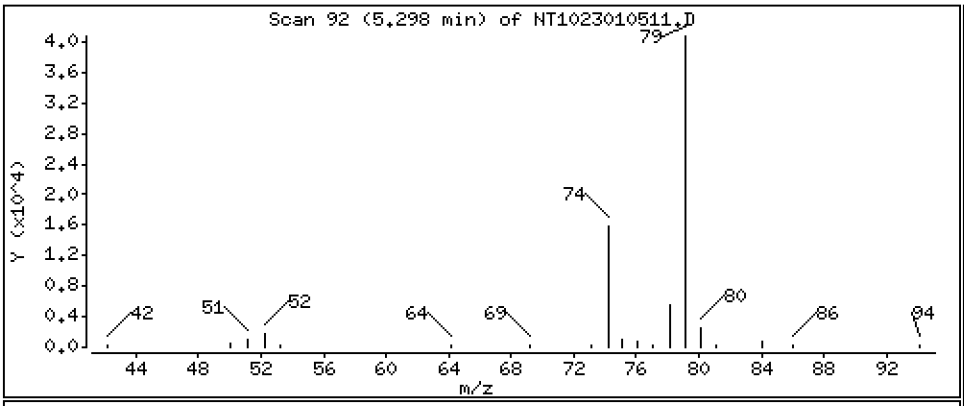
Operator: VTS

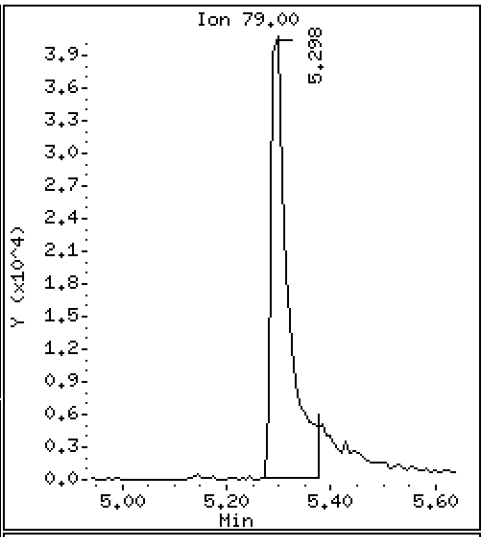
Column phase: ZB-5msi

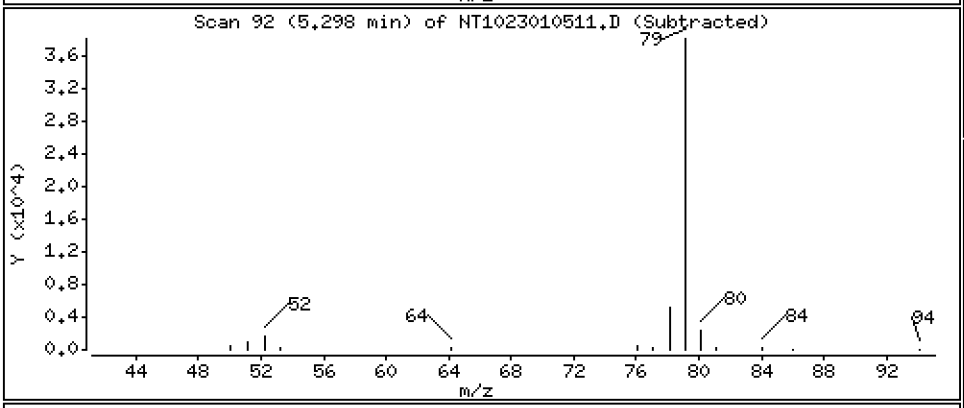
Column diameter: 0.25

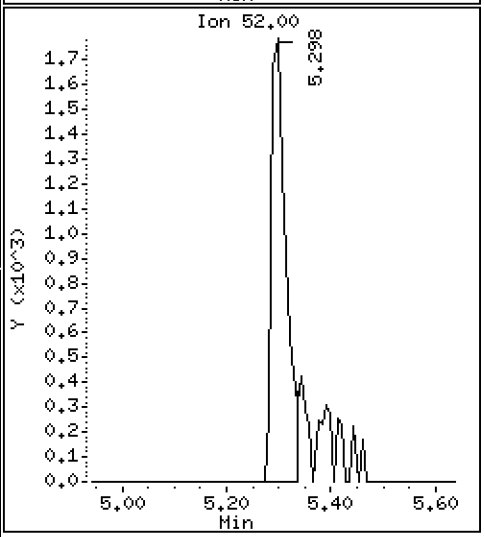
103 Pyridine

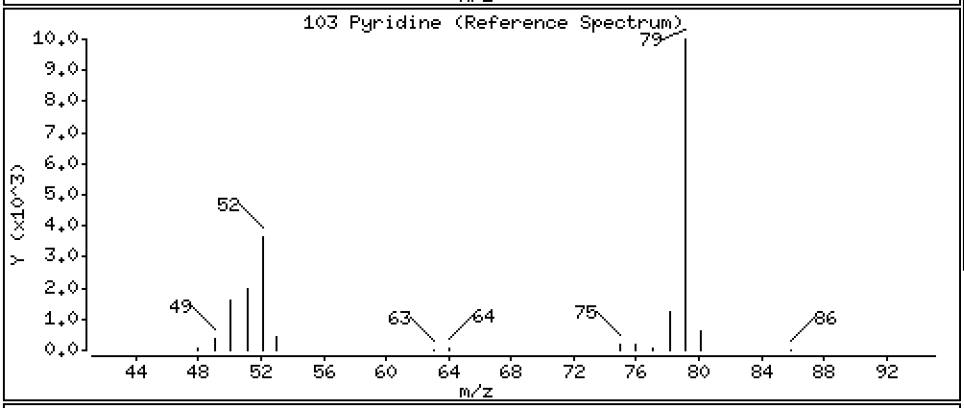
Concentration: 2.477 ug/mL

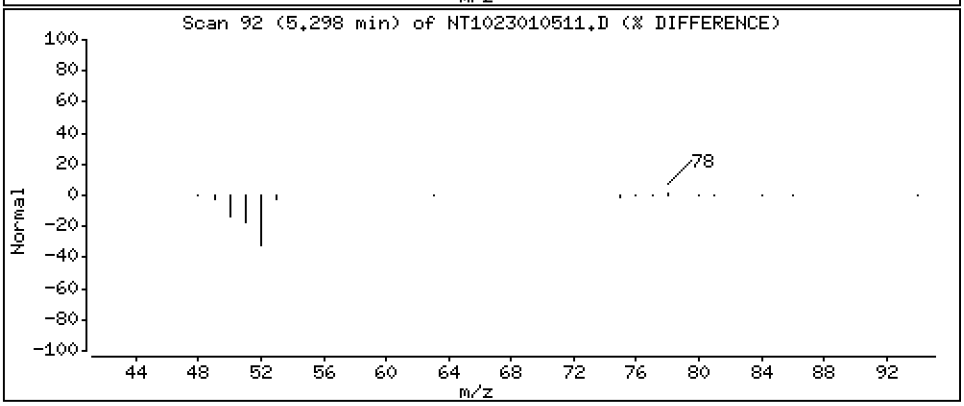












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

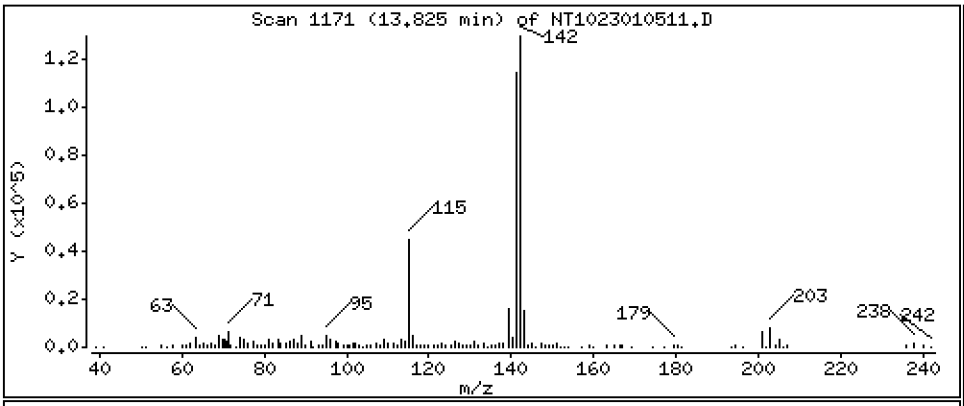
Operator: VTS

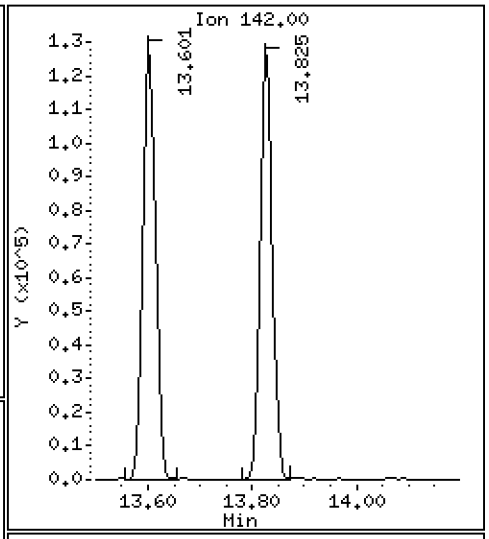
Column phase: ZB-5msi

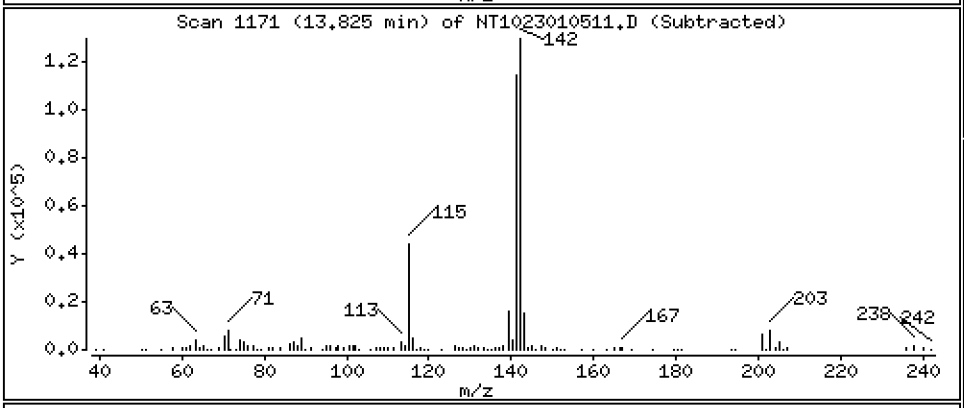
Column diameter: 0.25

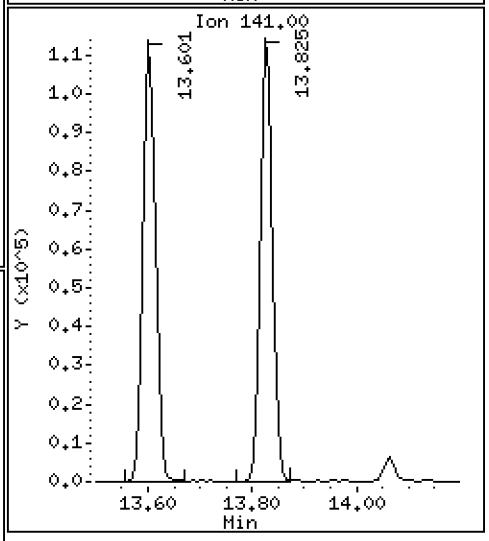
105 1-methylnaphthalene

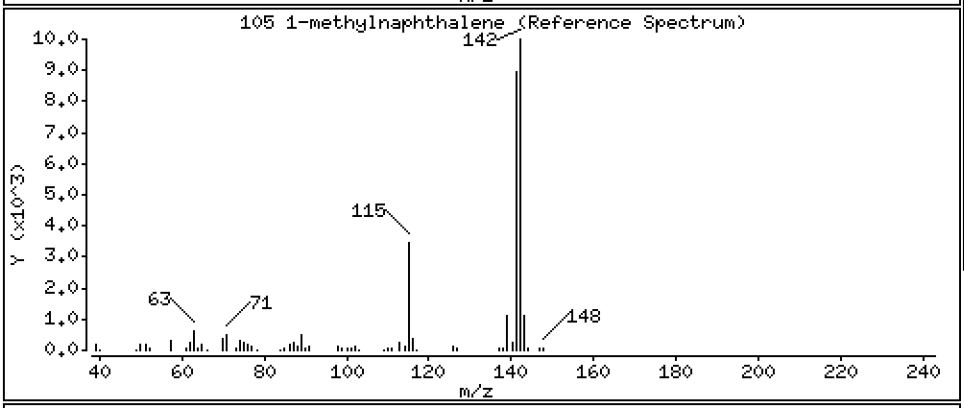
Concentration: 5.042 ug/mL

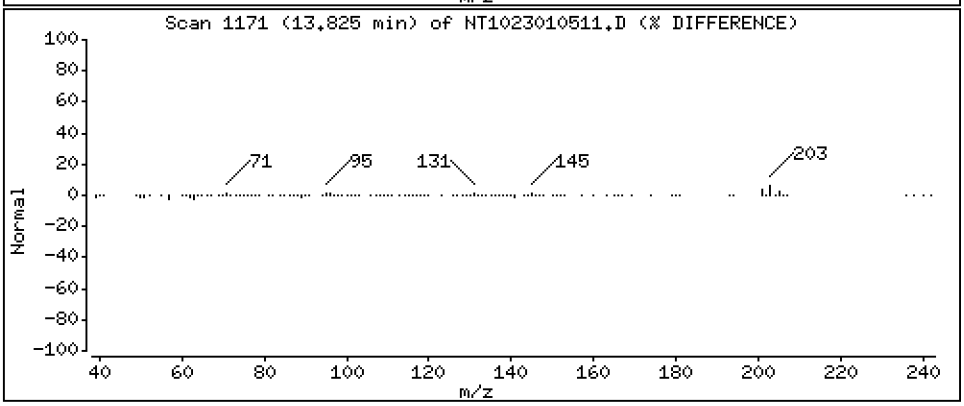












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

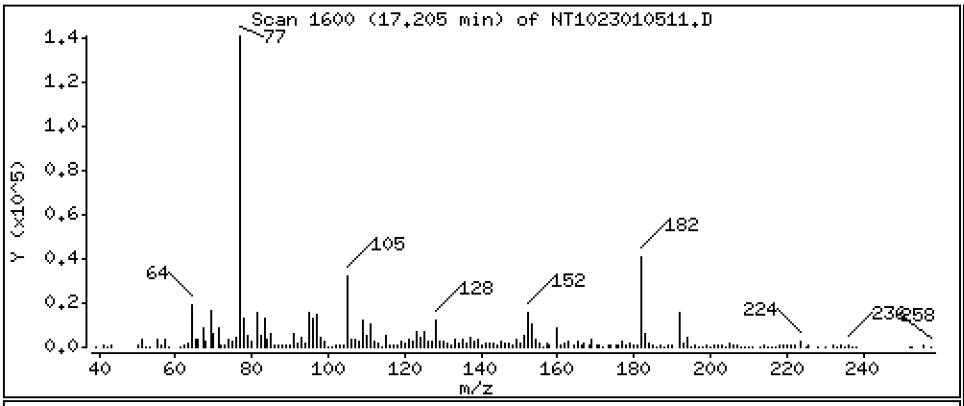
Operator: VTS

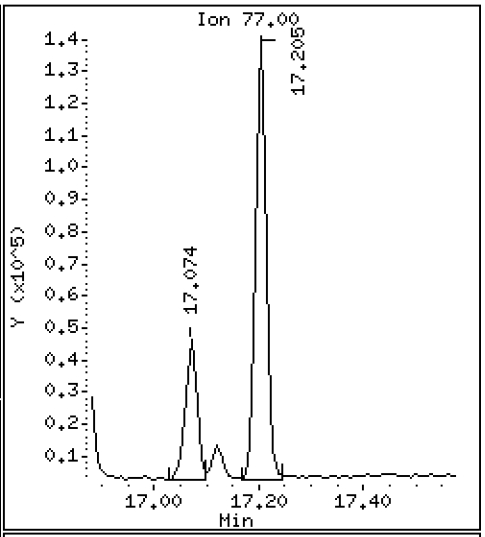
Column phase: ZB-5msi

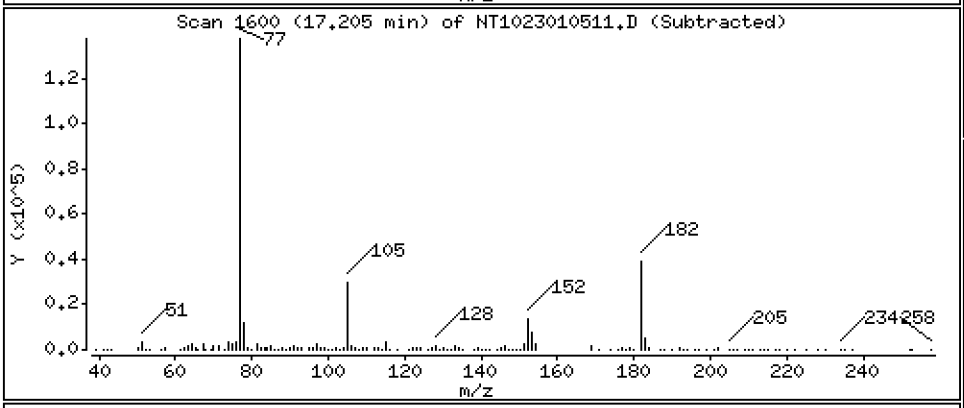
Column diameter: 0.25

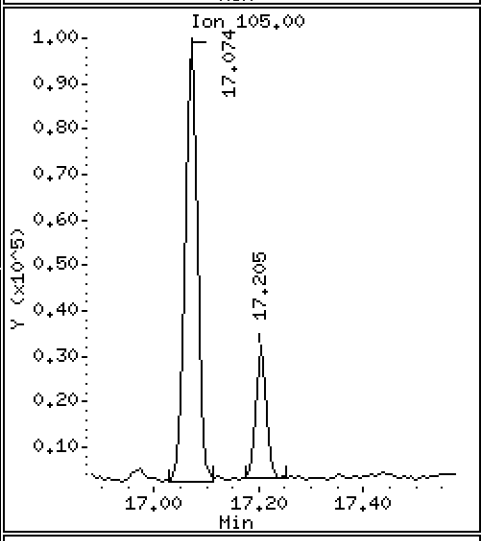
111 Azobenzene (1,2-DP-Hydrazine)

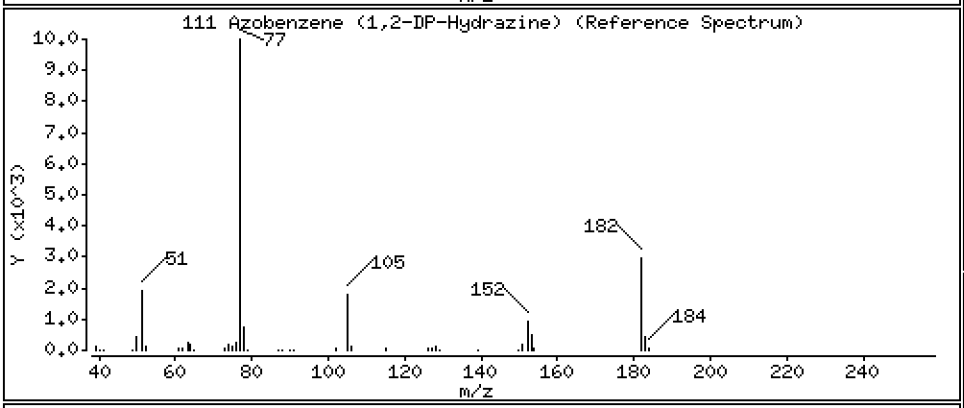
Concentration: 4.884 ug/mL

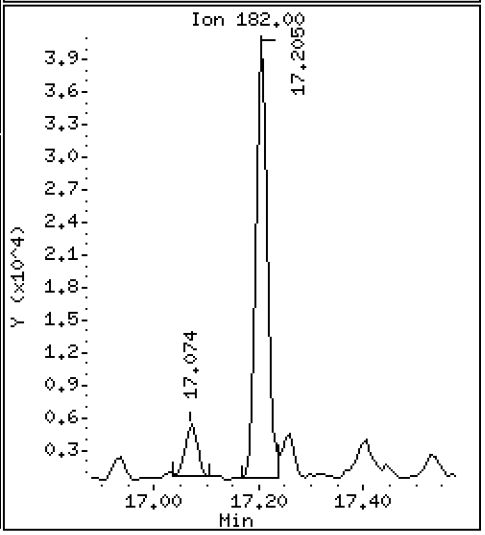


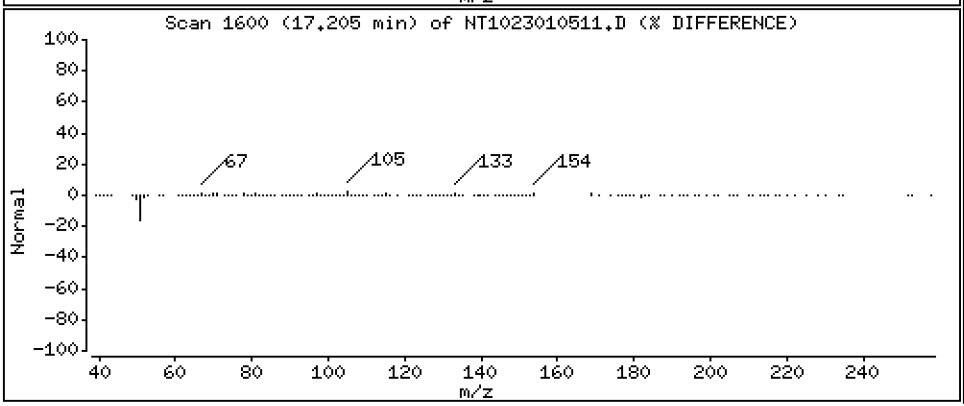












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

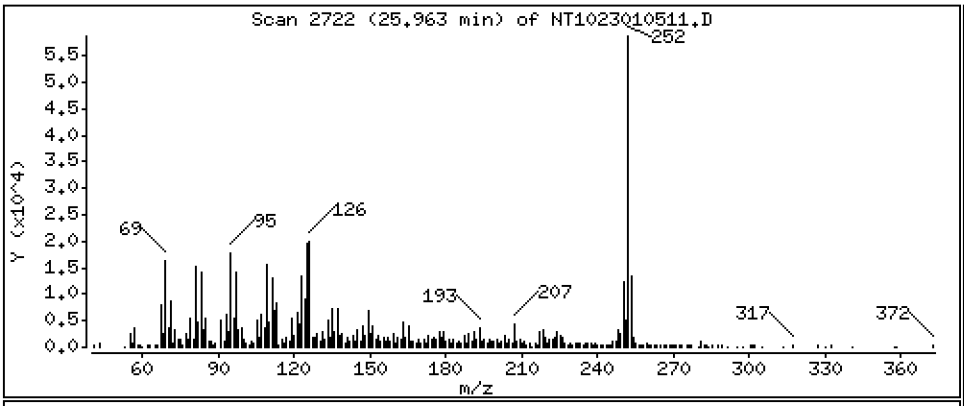
Operator: VTS

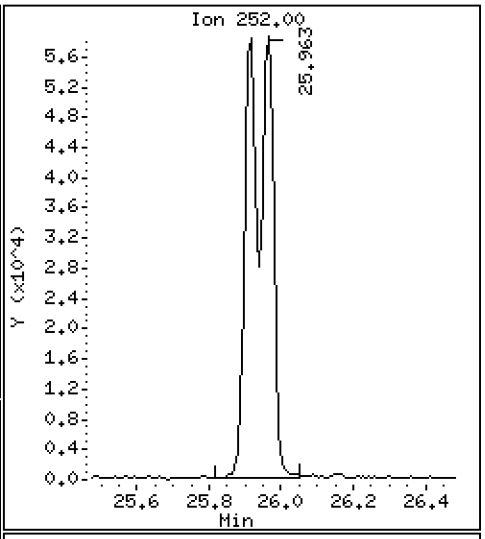
Column phase: ZB-5msi

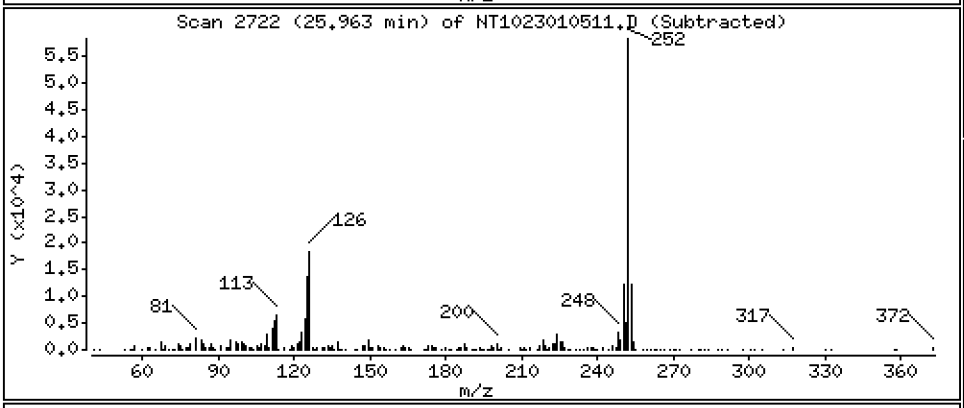
Column diameter: 0.25

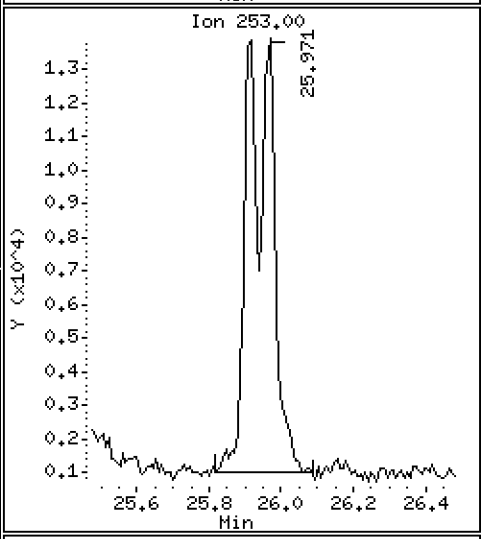
187 Total Benzofluoranthenes

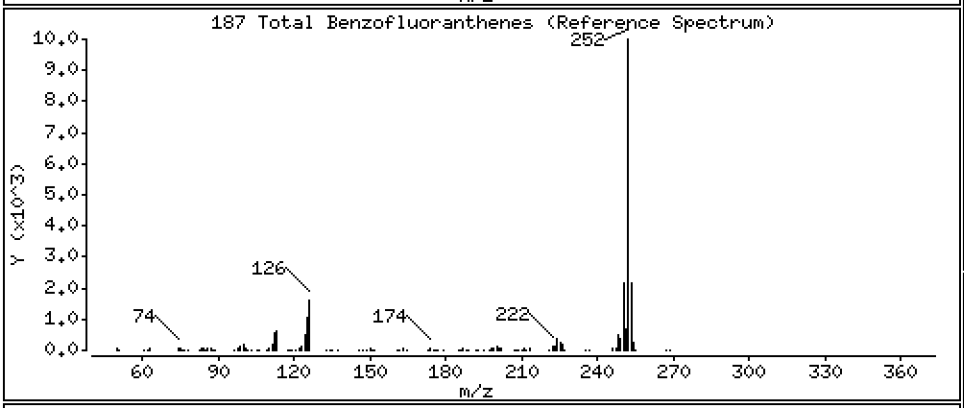
Concentration: 9.304 ug/mL

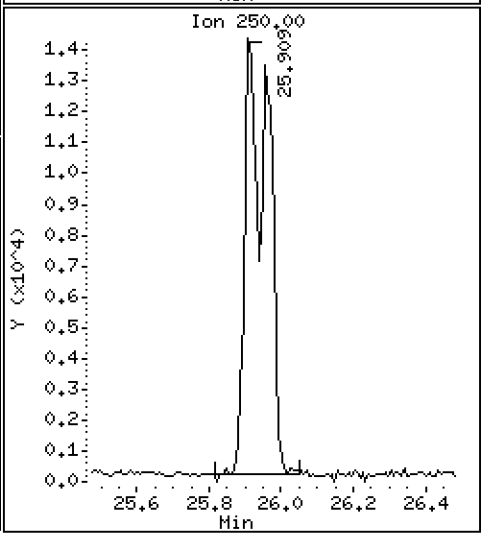


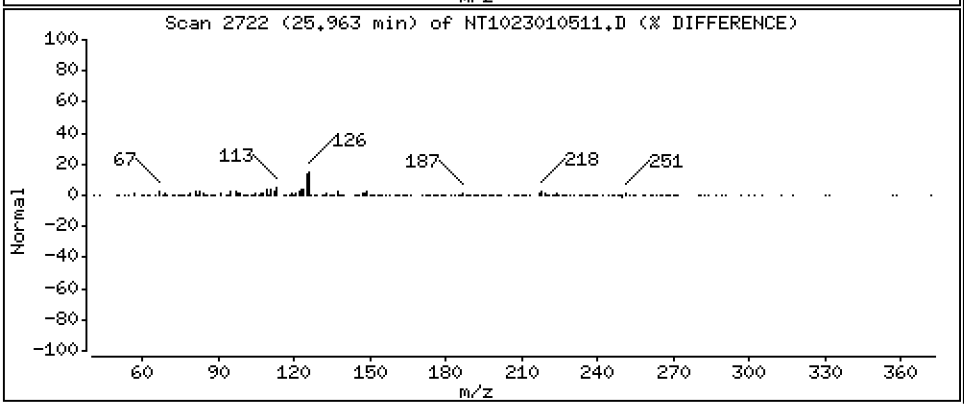












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Date : 05-JAN-2023 19:48

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MS1

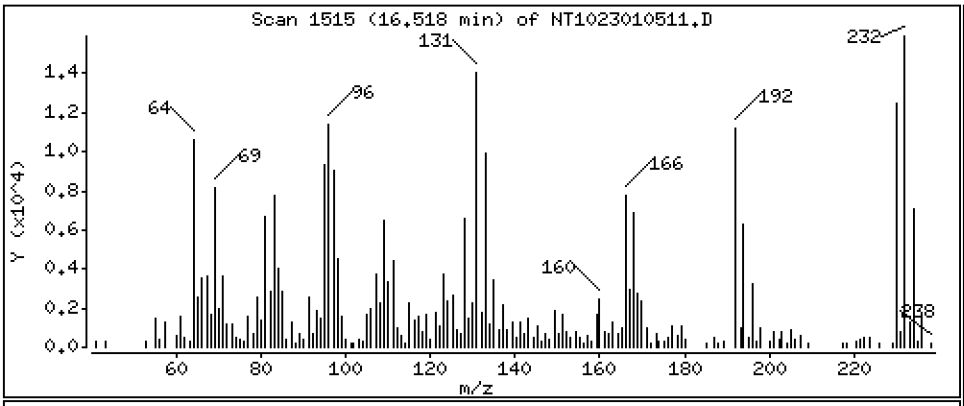
Operator: VTS

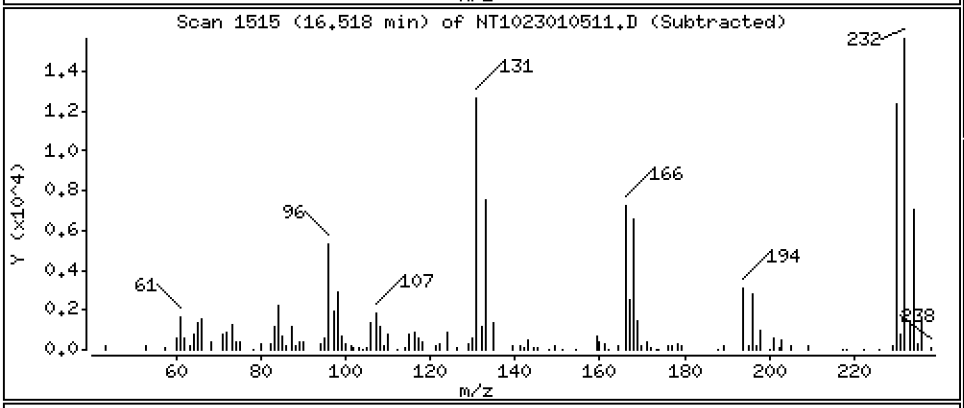
Column phase: ZB-5msi

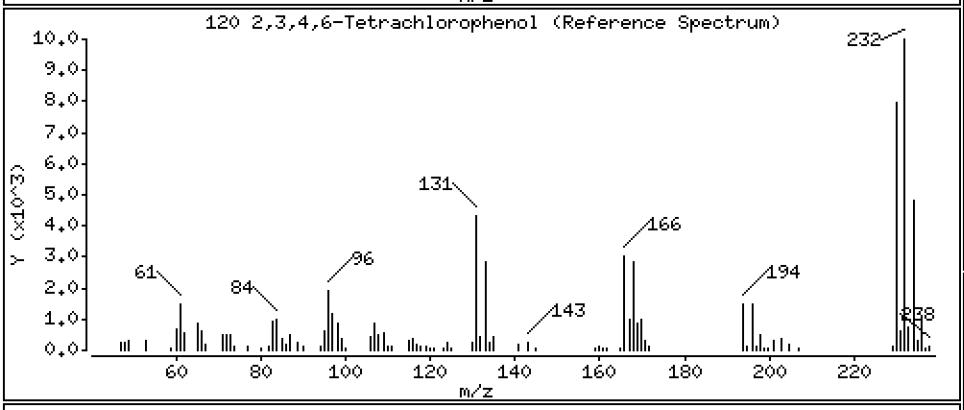
Column diameter: 0.25

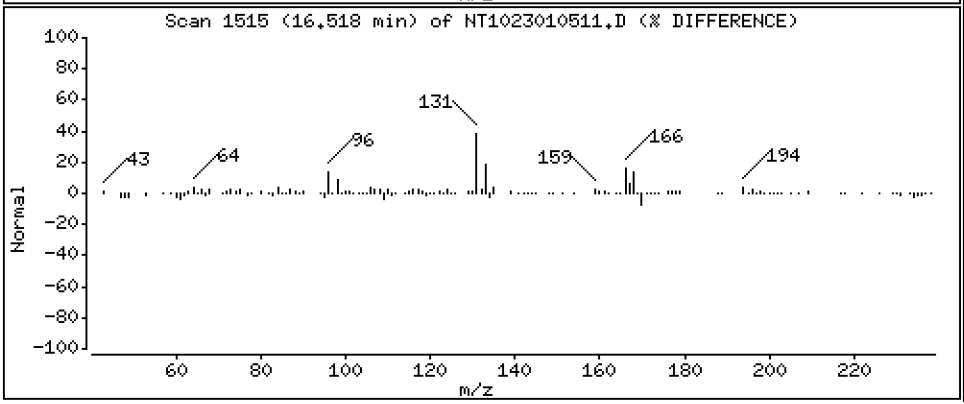
120 2,3,4,6-Tetrachlorophenol

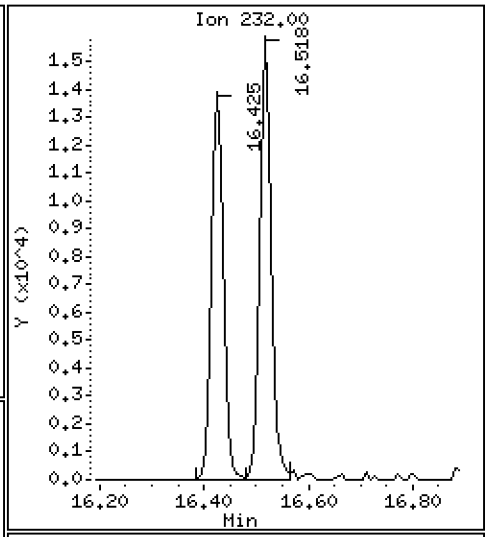
Concentration: 4.589 ug/mL

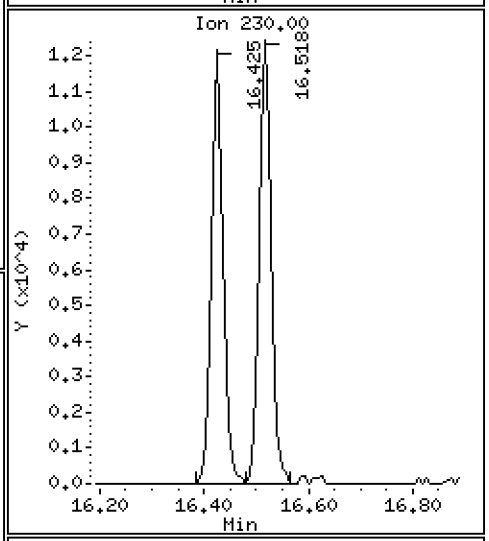


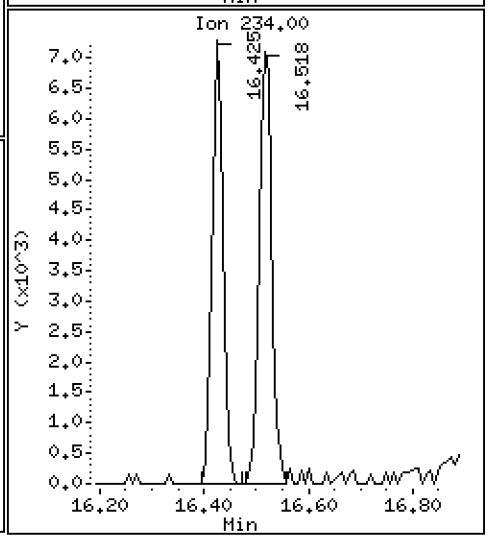












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010511.D
Lab Smp Id: BKL0489-MS1
Inj Date : 05-JAN-2023 19:48
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-MS1
Misc Info :
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Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1	2-Fluorophenol	112	7.444	7.429	(0.770)	148362	6.77793	6.778
$	2	Phenol-d5	99	9.005	9.012	(0.931)	180844	6.88228	6.882
	3	Phenol	94	9.028	9.036	(0.934)	112883	4.48708	4.487
$	5	2-Chlorophenol-d4	132	9.313	9.321	(0.963)	175659	7.69232	7.692
	4	Bis(2-Chloroethyl)ether	93	9.190	9.205	(0.950)	92094	4.23130	4.231
	6	2-Chlorophenol	128	9.337	9.344	(0.966)	111119	4.59114	4.591
	7	1,3-Dichlorobenzene	146	9.607	9.623	(0.994)	109428	4.30721	4.307
*	8	1,4-Dichlorobenzene-d4	152	9.669	9.685	(1.000)	66363	4.00000	
	9	1,4-Dichlorobenzene	146	9.700	9.716	(1.003)	95141	4.35476	4.355
$	10	1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	62731	4.41003	4.410
	12	1,2-Dichlorobenzene	146	10.057	10.073	(1.040)	95965	4.32875	4.329
	11	Benzyl alcohol	108	9.933	9.941	(1.027)	63463	5.29167	5.292
	14	2,2'-oxybis(1-Chloropropane)	121	10.228	10.244	(1.058)	33194	5.08452	5.085
	13	2-Methylphenol	108	10.151	10.158	(1.050)	71877	4.23505	4.235
	17	Hexachloroethane	117	10.663	10.679	(1.103)	38107	3.97287	3.973
	16	N-Nitroso-di-n-propylamine	70	10.484	10.500	(1.084)	42628	4.77442	4.774
	15	4-Methylphenol	108	10.422	10.422	(1.078)	76498	6.30429	6.304
$	18	Nitrobenzene-d5	82	10.764	10.779	(0.885)	81993	5.05131	5.051
	19	Nitrobenzene	77	10.803	10.810	(0.888)	75156	5.07306	5.073
	20	Isophorone	82	11.245	11.261	(0.925)	160142	6.84482	6.845
	21	2-Nitrophenol	139	11.433	11.442	(0.940)	64991	4.75788	4.758
	22	2,4-Dimethylphenol	107	11.459	11.476	(0.942)	311914	16.7062	16.71
	23	Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	89311	5.52420	5.524
	24	Benzoic acid	105	11.637	11.671	(0.957)	180112	21.7814	21.78
	25	2,4-Dichlorophenol	162	11.892	11.900	(0.978)	273073	18.0550	18.05
	26	1,2,4-Trichlorobenzene	180	12.077	12.092	(0.993)	69794	4.48830	4.488
*	27	Naphthalene-d8	136	12.162	12.185	(1.000)	241723	4.00000	
	28	Naphthalene	128	12.208	12.224	(1.004)	287172	5.40276	5.403
	29	4-Chloroaniline	127	12.362	12.339	(1.017)	20178	0.97861	0.9786
	30	Hexachlorobutadiene	225	12.556	12.579	(1.032)	27859	4.82094	4.821
	31	4-Chloro-3-methylphenol	107	13.275	13.291	(1.092)	289223	17.4083	17.41
	32	2-Methylnaphthalene	142	13.600	13.624	(1.118)	210858	5.01570	5.016
	33	Hexachlorocyclopentadiene	237	14.065	14.088	(0.891)	36363	6.26466	6.265

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.220	14.235	(0.901)	185372	19.6524	19.65
	35	2,4,5-Trichlorophenol	196	14.297	14.312	(0.905)	193096	18.7810	18.78
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	194508	4.96551	4.966
	37	2-Chloronaphthalene	162	14.599	14.622	(0.925)	181756	5.19366	5.194
	38	2-Nitroaniline	65	14.846	14.862	(0.940)	92773	18.0140	18.01
	39	Dimethylphthalate	163	15.264	15.280	(0.967)	166691	5.22768	5.228
	40	Acenaphthylene	152	15.481	15.497	(0.980)	251633	5.00485	5.005
	41	2,6-Dinitrotoluene	165	15.411	15.427	(0.976)	136817	18.8908	18.89
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	105735	4.00000	
	43	3-Nitroaniline	138	15.713	15.721	(0.995)	33395	6.41628	6.416
	44	Acenaphthene	153	15.860	15.876	(1.004)	147268	5.27819	5.278
	45	2,4-Dinitrophenol	184	15.914	15.938	(1.008)	82586	16.5968	16.60
	46	Dibenzofuran	168	16.185	16.208	(1.025)	211468	4.98785	4.988
	47	4-Nitrophenol	109	16.015	16.038	(1.014)	82444	19.1446	19.14
	48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	183834	18.9165	18.92
	50	Diethylphthalate	149	16.718	16.742	(1.059)	197531	5.87373	5.874
	49	Fluorene	166	16.904	16.919	(1.070)	336761	5.41058	5.411
	51	4-Chlorophenyl-phenylether	204	16.873	16.896	(1.069)	96498	4.82710	4.827
	52	4-Nitroaniline	138	16.981	17.004	(1.075)	124234	8.74415	8.744
	53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	278184	35.0153	35.02
	54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.908)	157919	4.87231	4.872
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	18516	8.42685	8.427
	56	4-Bromophenyl-phenylether	248	17.891	17.914	(0.949)	43952	5.15096	5.151
	57	Hexachlorobenzene	284	18.223	18.238	(0.967)	37055	5.07807	5.078
	58	Pentachlorophenol	266	18.579	18.594	(0.986)	43765	27.2127	27.21
*	59	Phenanthrene-d10	188	18.850	18.865	(1.000)	175108	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.002)	252677	5.94766	5.948
	61	Anthracene	178	18.989	19.005	(1.007)	197857	4.77091	4.771
	62	Carbazole	167	19.306	19.322	(1.024)	224661	5.02725	5.027
	63	Di-n-butylphthalate	149	20.057	20.072	(1.064)	333232	5.34491	5.345
	64	Fluoranthene	202	21.279	21.271	(0.892)	213950	5.70226	5.702
	65	Pyrene	202	21.681	21.689	(0.909)	213737	5.67020	5.670
$	66	Terphenyl-d14	244	21.937	21.952	(0.920)	103972	4.81935	4.819
	67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	130273	6.38411	6.384
	68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	168685	6.47336	6.473
*	69	Chrysene-d12	240	23.857	23.873	(1.000)	89033	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.795	23.780	(0.997)	942	0.10643	0.1064
	71	Chrysene	228	23.904	23.919	(1.002)	140673	6.38310	6.383
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	252857	5.69721	5.697
*	134	Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	289004	4.00000	
	73	Di-n-octylphthalate	149	24.918	24.941	(1.001)	340831	5.09992	5.100
	74	Benzo(b)fluoranthene	252	25.916	25.932	(0.967)	140178	4.68652	4.687
	75	Benzo(k)fluoranthene	252	25.963	25.978	(0.968)	134301	4.60844	4.608
	76	Benzo(a)pyrene	252	26.675	26.691	(0.995)	124517	4.36550	4.366
*	77	Perylene-d12	264	26.815	26.822	(1.000)	83036	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.946	29.946	(1.117)	110395	4.92391	4.924
	79	Dibenzo(a,h)anthracene	278	29.946	29.970	(1.117)	89513	5.08104	5.081
	80	Benzo(g,h,i)perylene	276	30.871	30.886	(1.151)	90323	4.88294	4.883
	90	N-Nitrosodimethylamine	74	5.274	5.282	(0.545)	147270	11.8160	11.82
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.496	21.480	(0.901)	364	0.02226	0.02226
	103	Pyridine	79	5.297	5.290	(0.548)	88467	2.47739	2.477
	105	1-methylnaphthalene	142	13.825	13.848	(1.137)	207107	5.04185	5.042
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	203666	4.88408	4.884

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.963	25.978	(0.968)	263496	9.30365	9.304
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.541	(1.046)	25049	4.58915	4.589

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010511.D
Lab Smp Id: BKL0489-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	66363	-18.80
27 Naphthalene-d8	307034	153517	614068	241723	-21.27
42 Acenaphthene-d10	140557	70279	281114	105735	-24.77
59 Phenanthrene-d10	243620	121810	487240	175108	-28.12
69 Chrysene-d12	144852	72426	289704	89033	-38.54
134 Di-n-octylphthala	387178	193589	774356	289004	-25.36
77 Perylene-d12	106683	53342	213366	83036	-22.17

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.16	-0.19
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.86	-0.07
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.82	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010511.D

Lab ID: BKL0489-MS1
nt10.i, ABN.m, 05-JAN-2023 19:48

RT	CO-ELUTION COMPOUNDS
29.947	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
29.947	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Page 1

Date : 05-JAN-2023 20:26

Client ID:

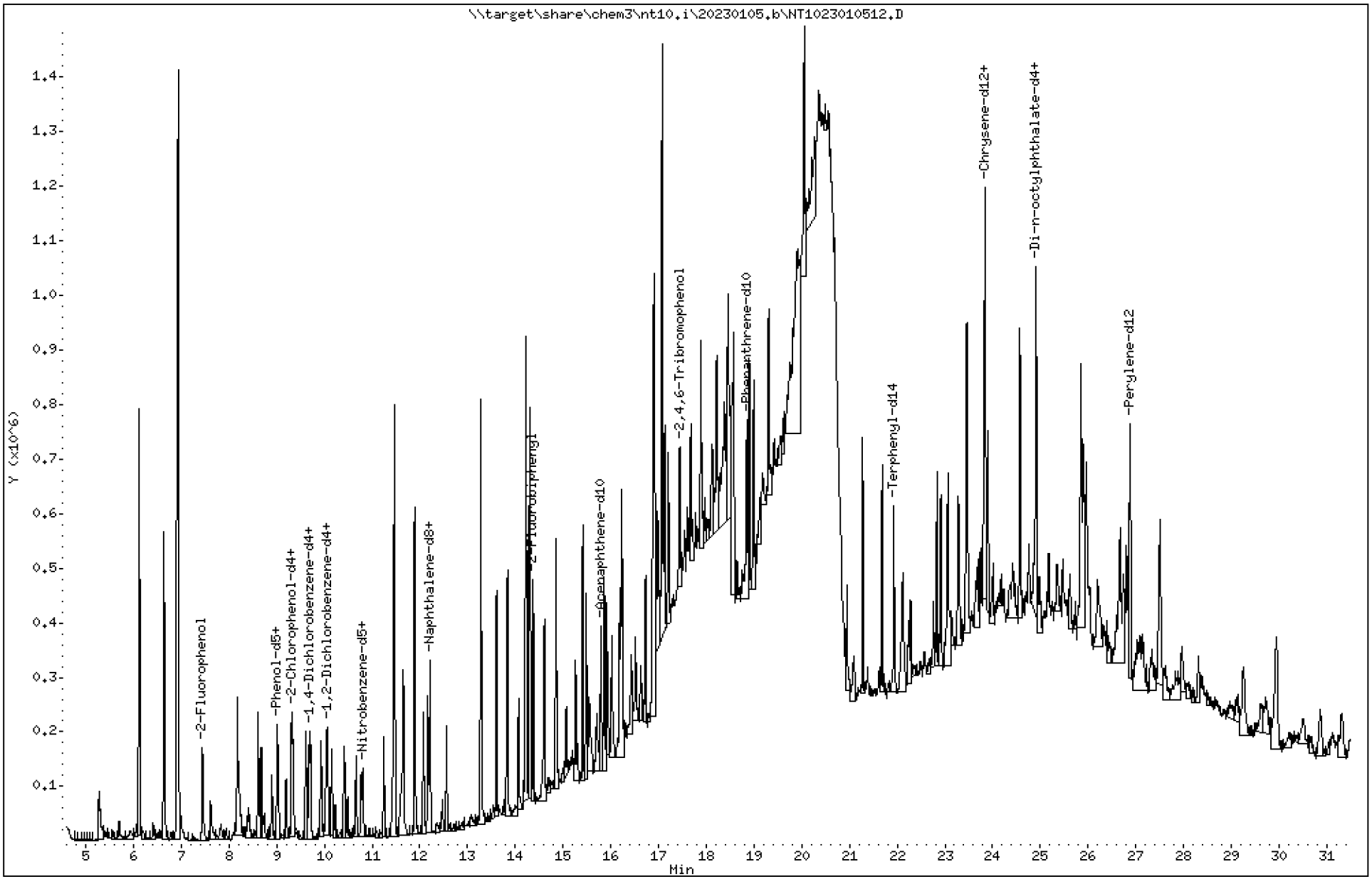
Instrument: nt10.i

Sample Info: BKL0489-MSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1032 of 5449

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

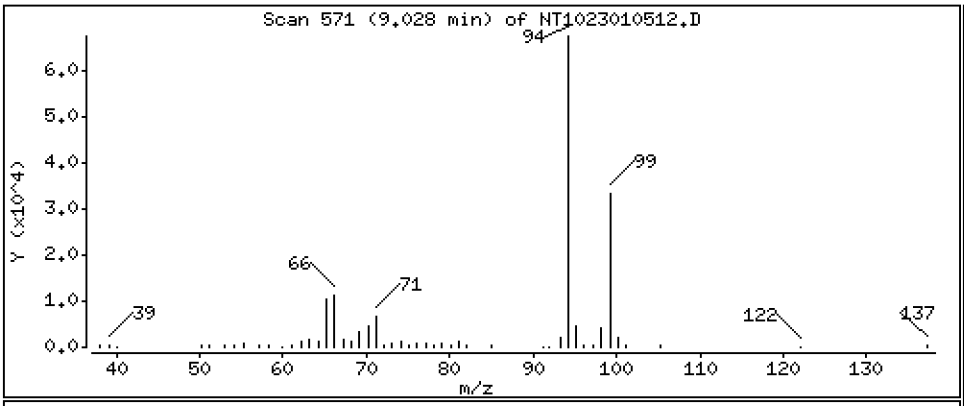
Operator: VTS

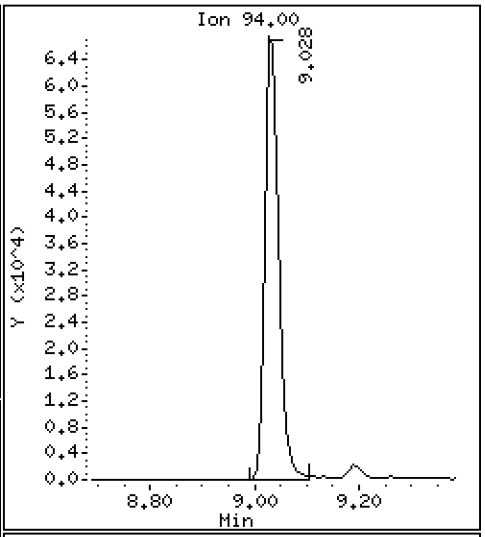
Column phase: ZB-5msi

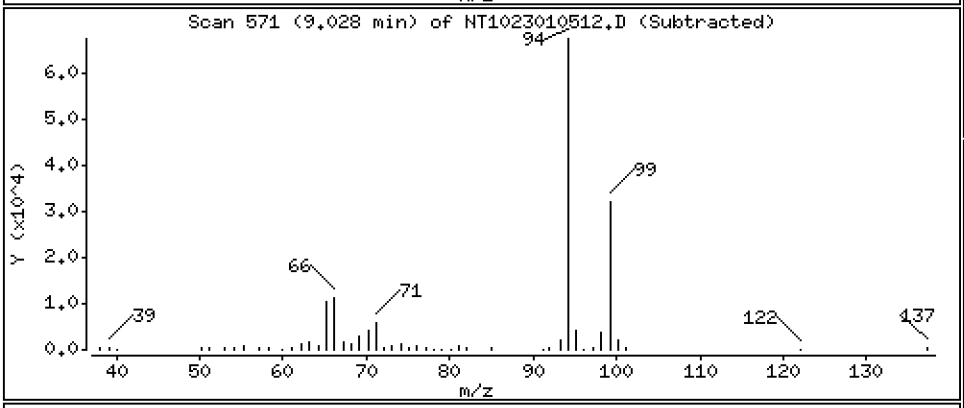
Column diameter: 0.25

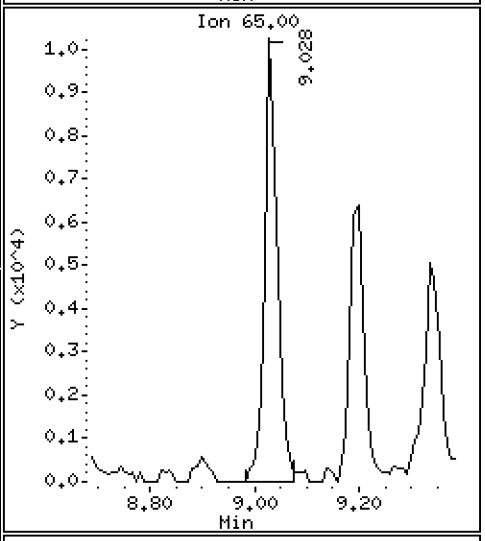
3 Phenol

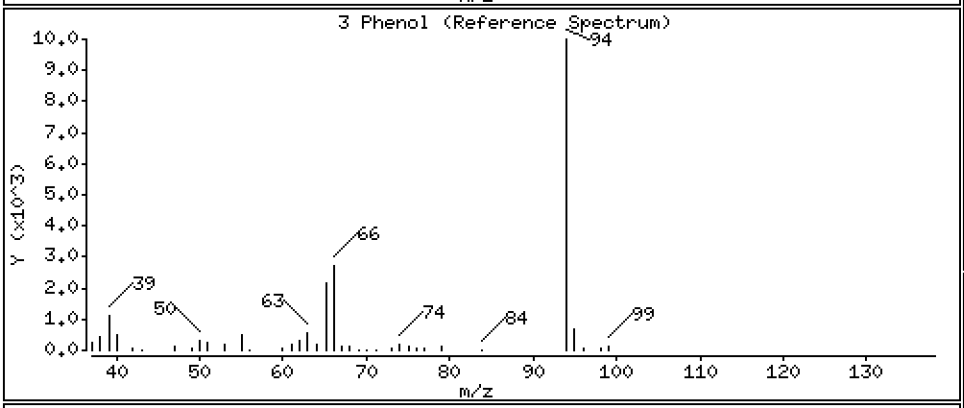
Concentration: 4.727 ug/mL

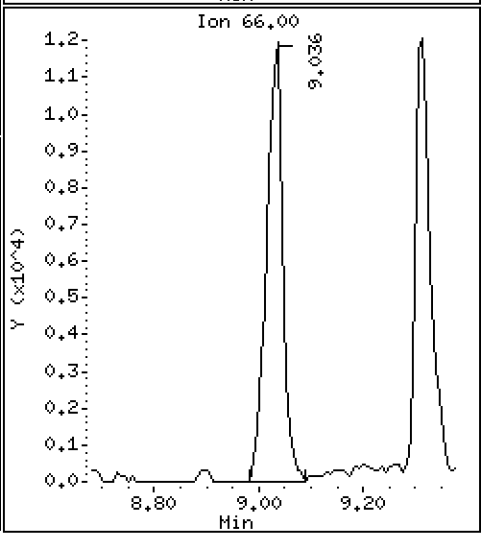


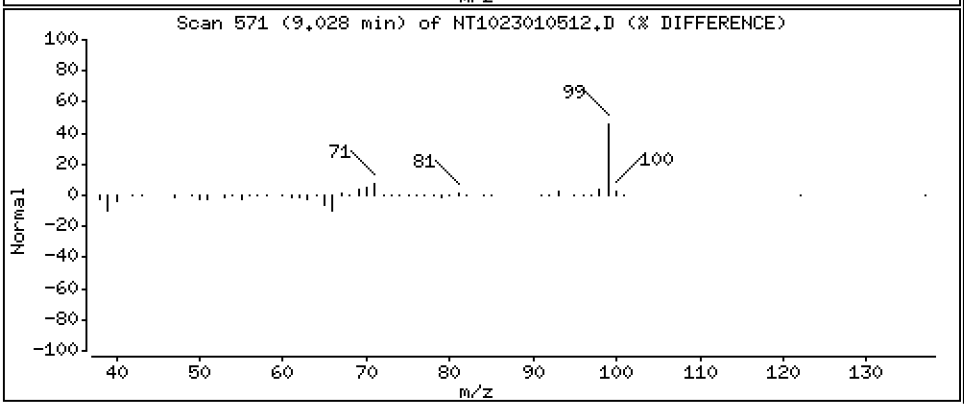












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

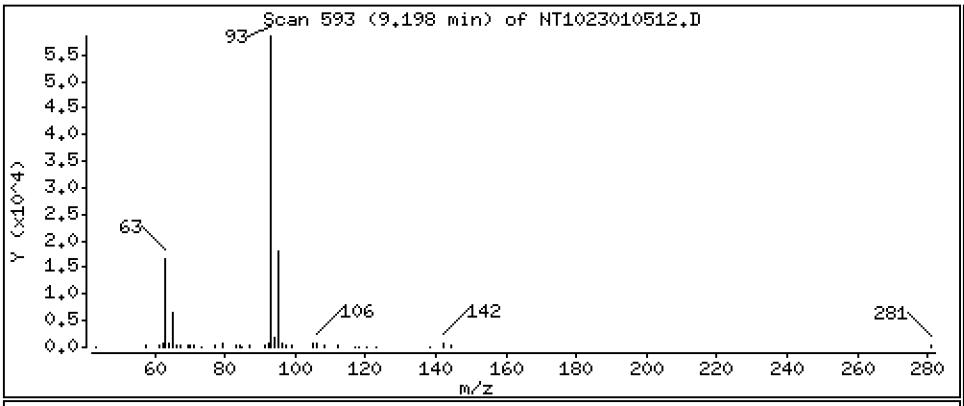
Operator: VTS

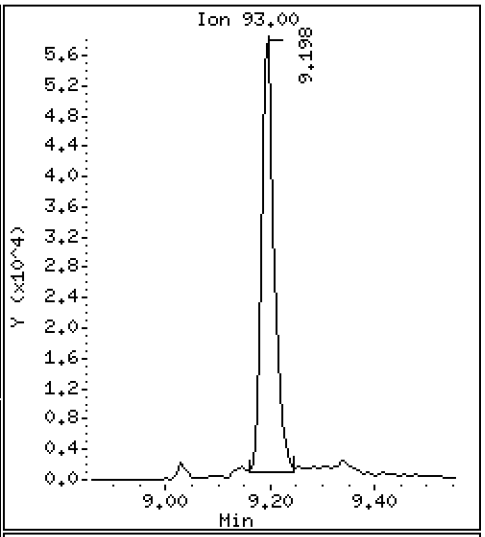
Column phase: ZB-5msi

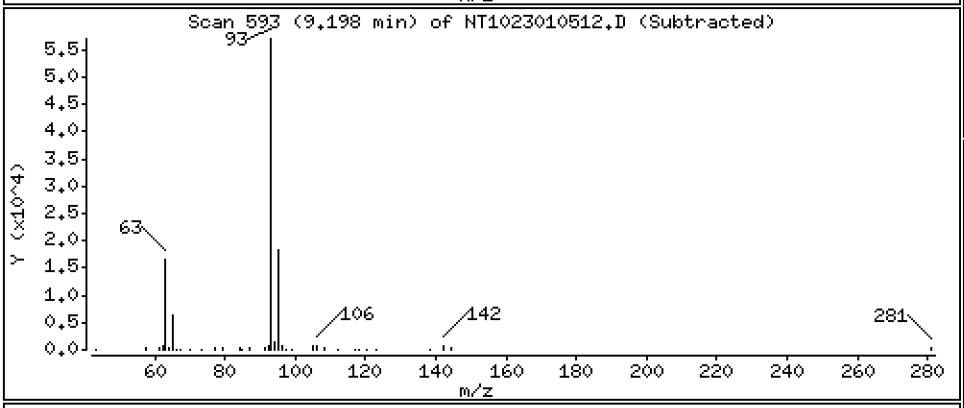
Column diameter: 0.25

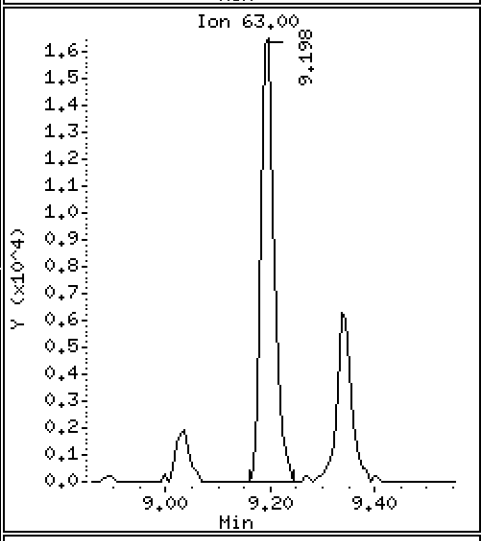
4 Bis(2-Chloroethyl)ether

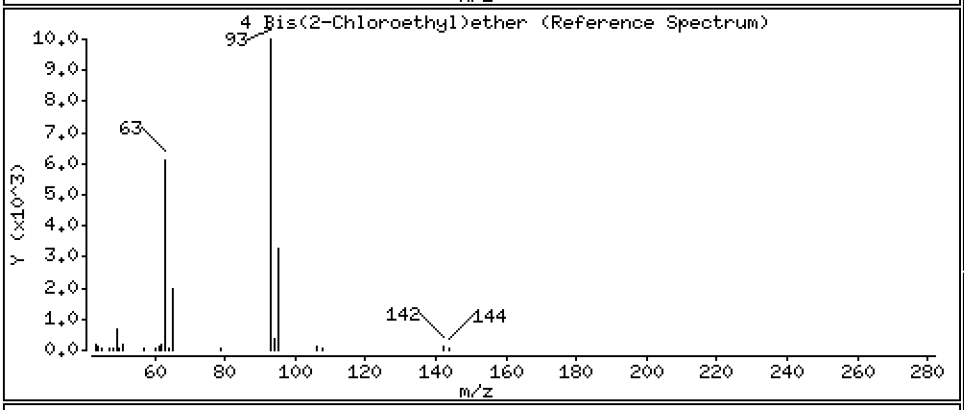
Concentration: 4.406 ug/mL

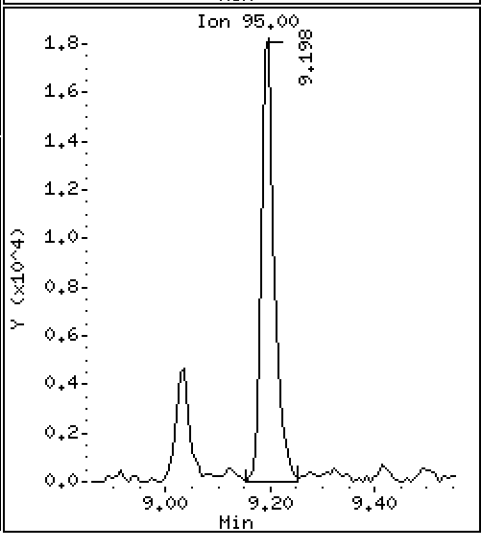


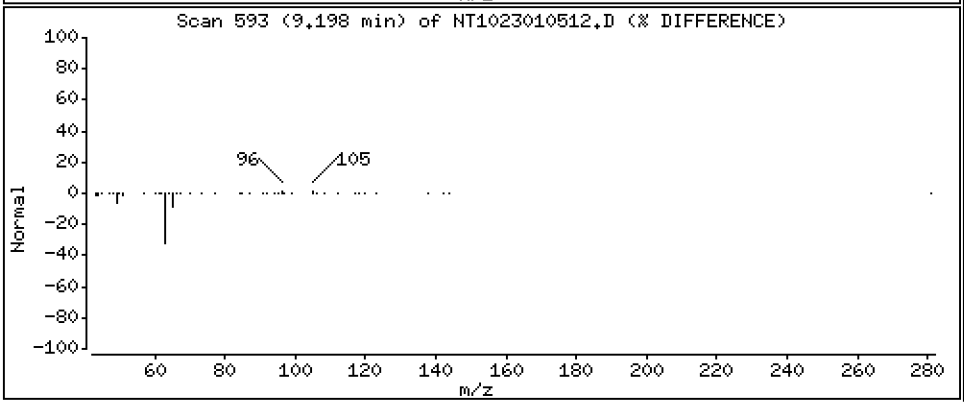












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

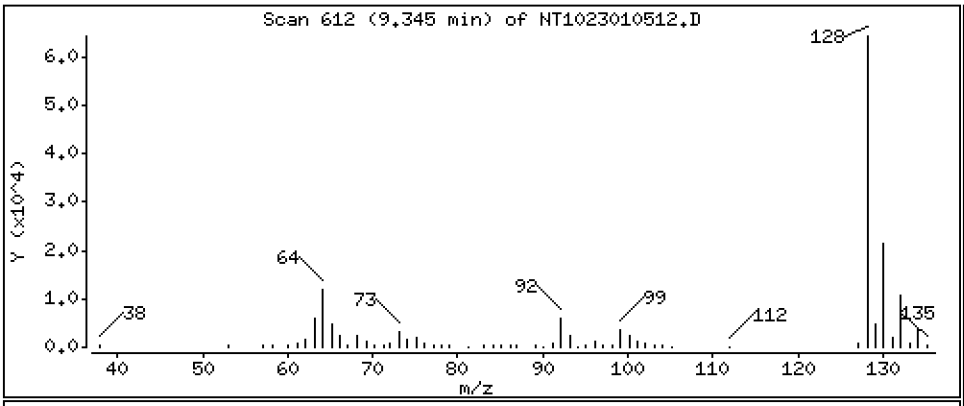
Operator: VTS

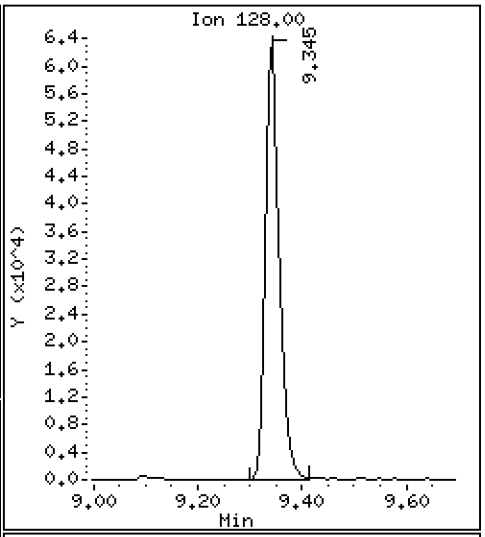
Column phase: ZB-5msi

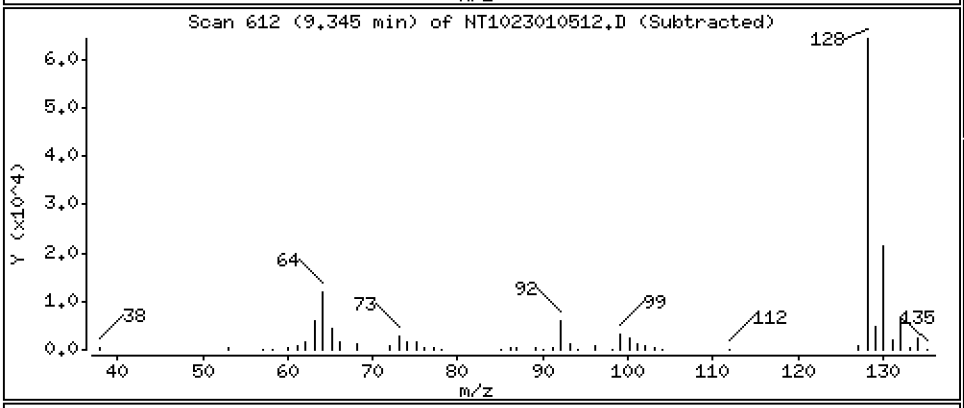
Column diameter: 0.25

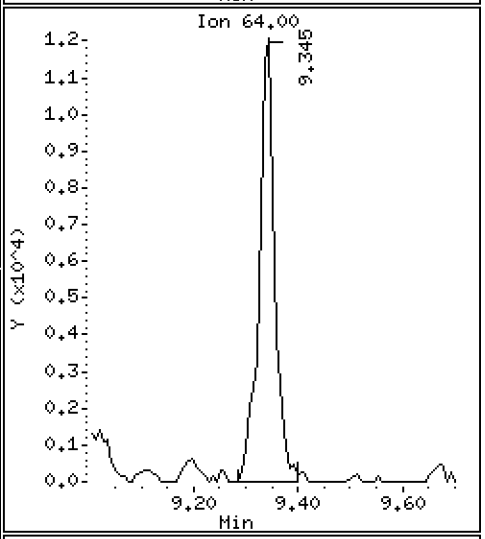
6 2-Chlorophenol

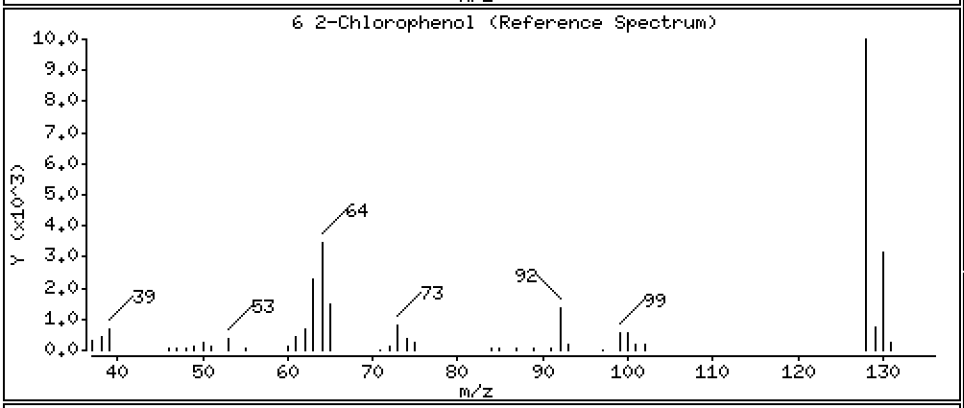
Concentration: 4.793 ug/mL

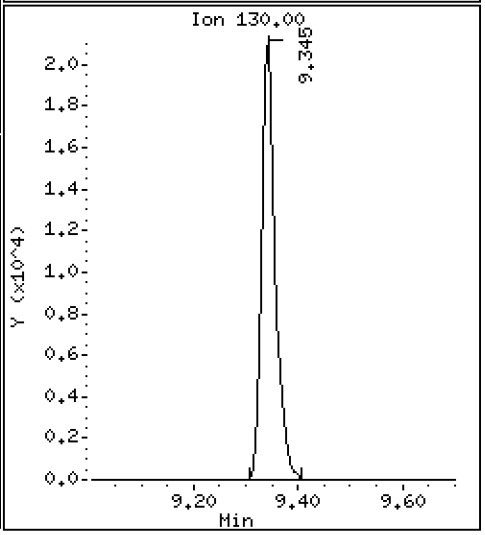


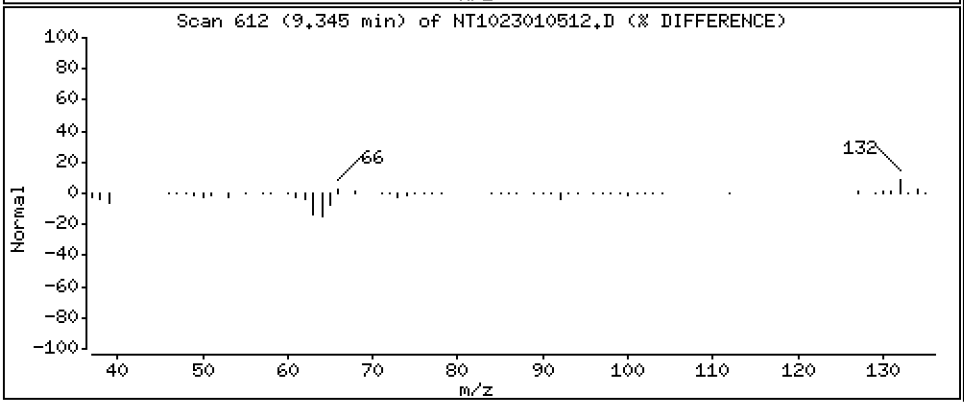












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

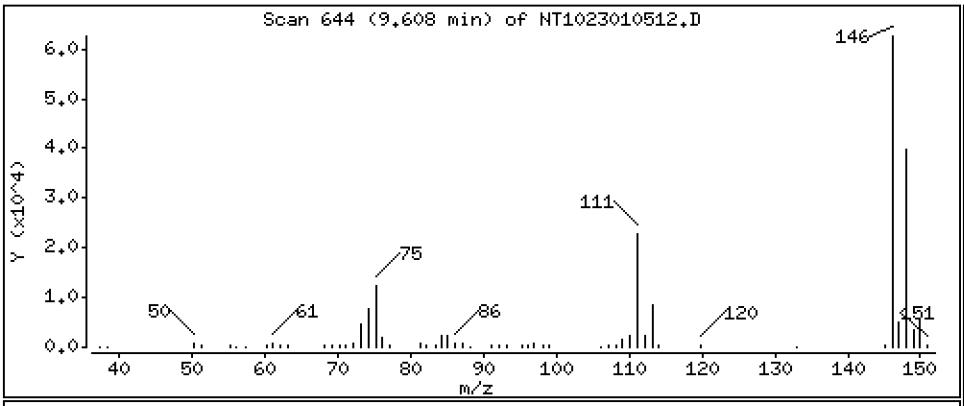
Operator: VTS

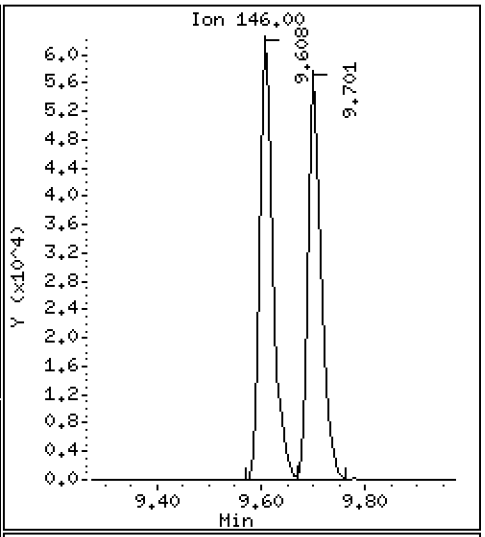
Column phase: ZB-5msi

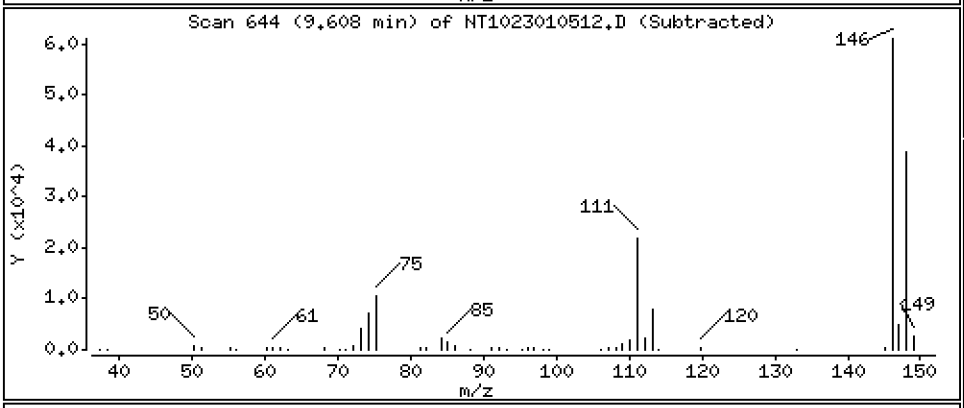
Column diameter: 0.25

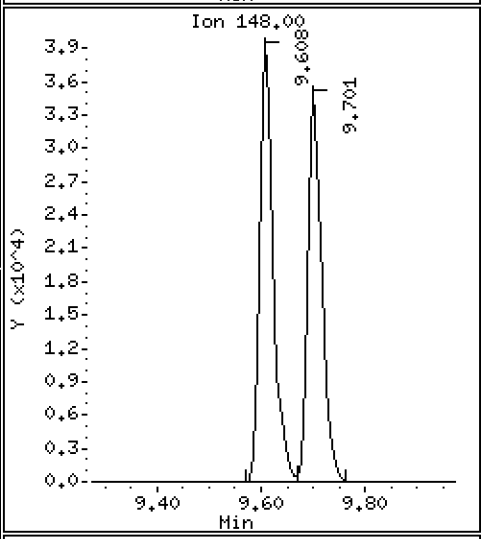
7 1,3-Dichlorobenzene

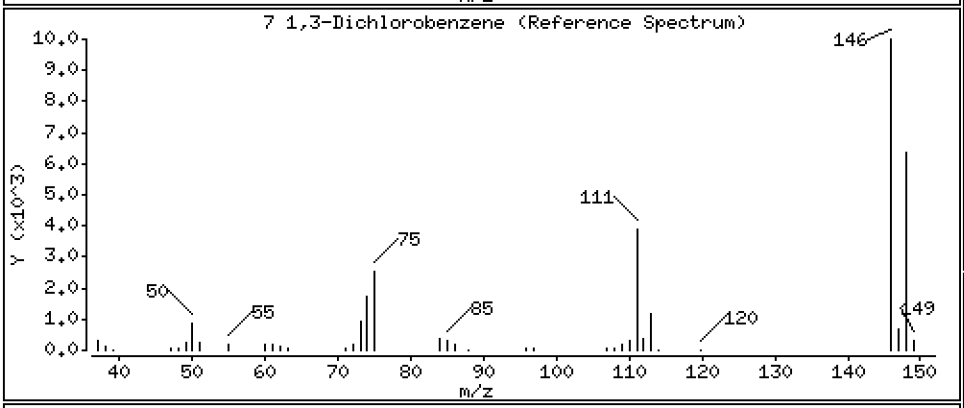
Concentration: 4.439 ug/mL

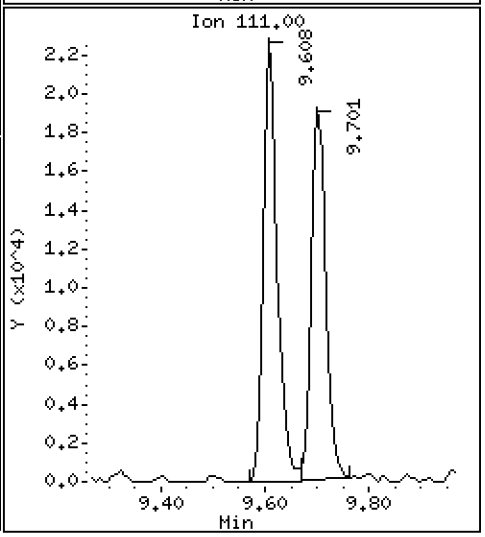


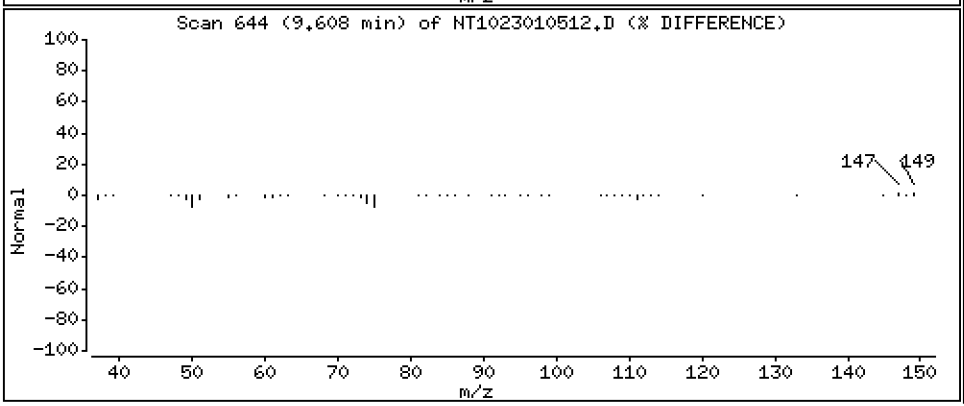












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

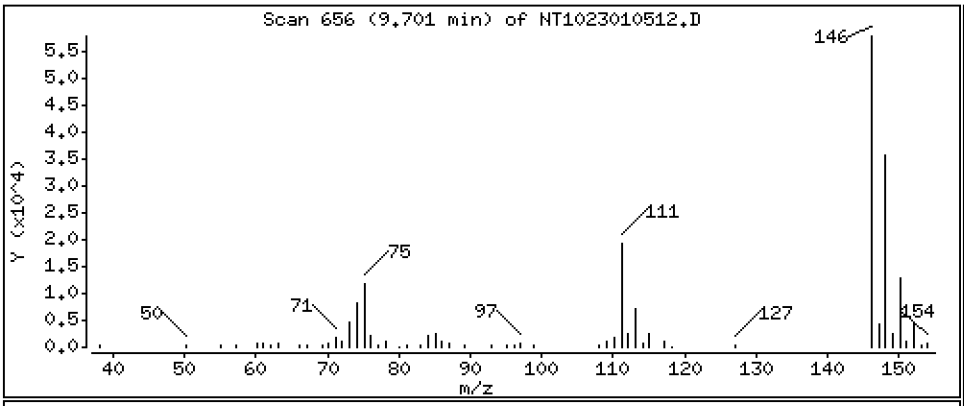
Operator: VTS

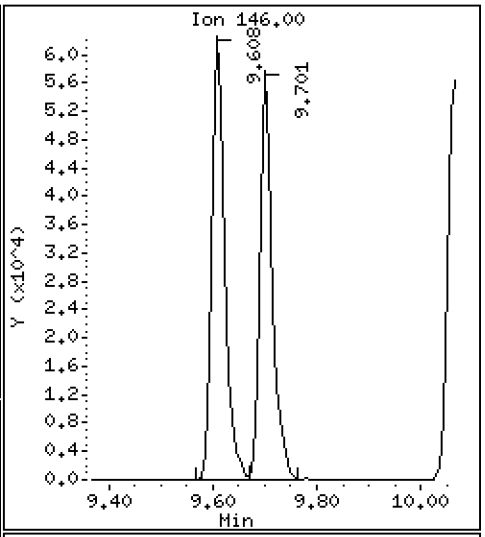
Column phase: ZB-5msi

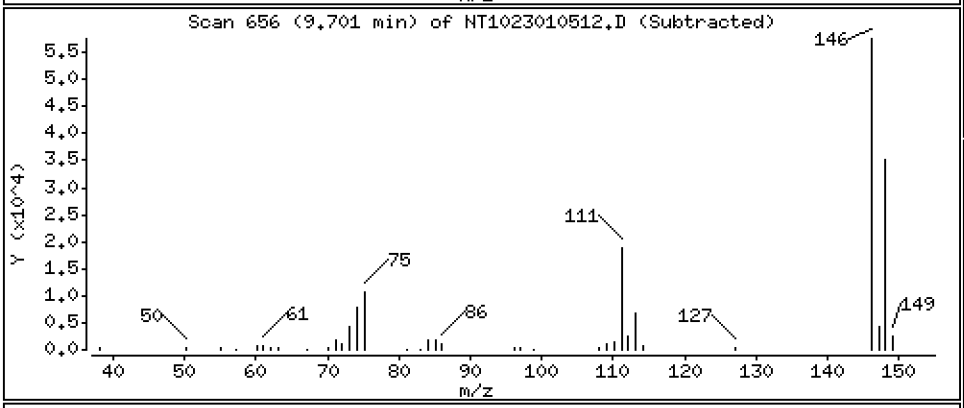
Column diameter: 0.25

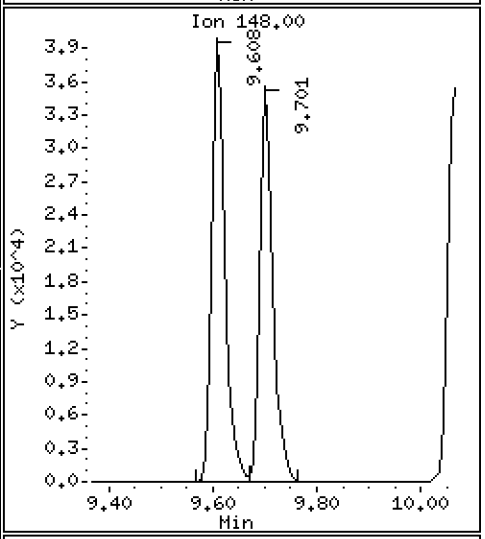
9 1,4-Dichlorobenzene

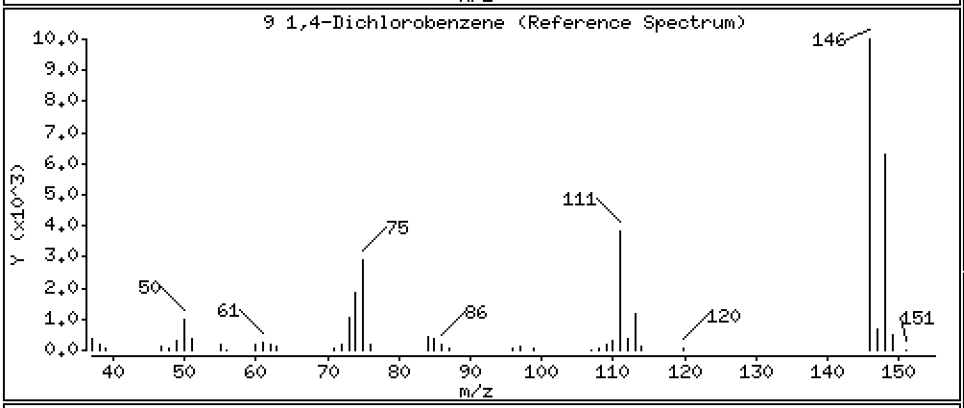
Concentration: 4.449 ug/mL

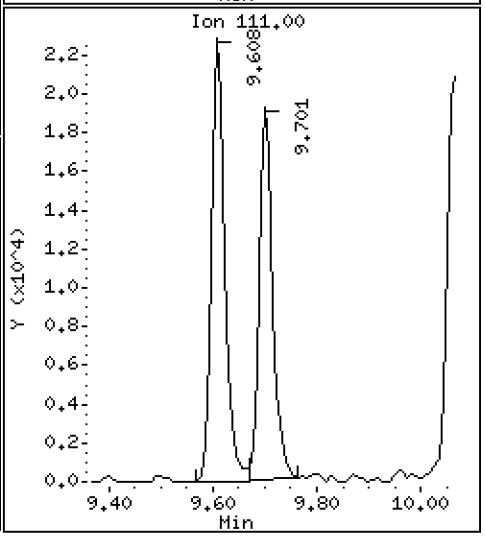


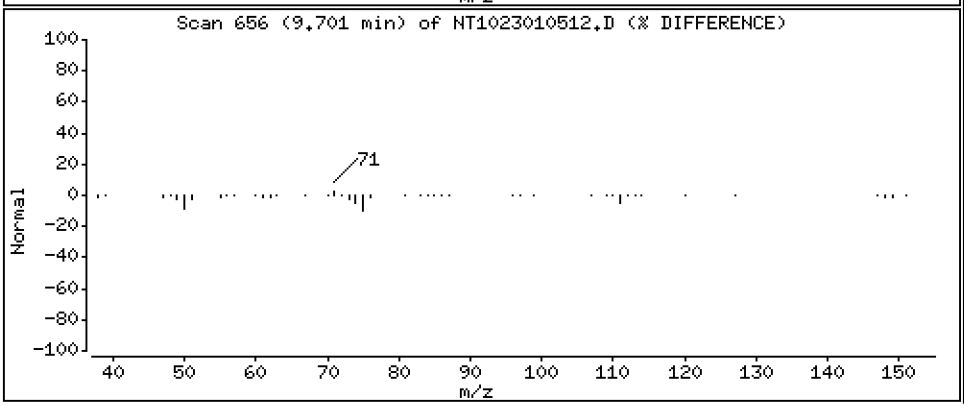












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

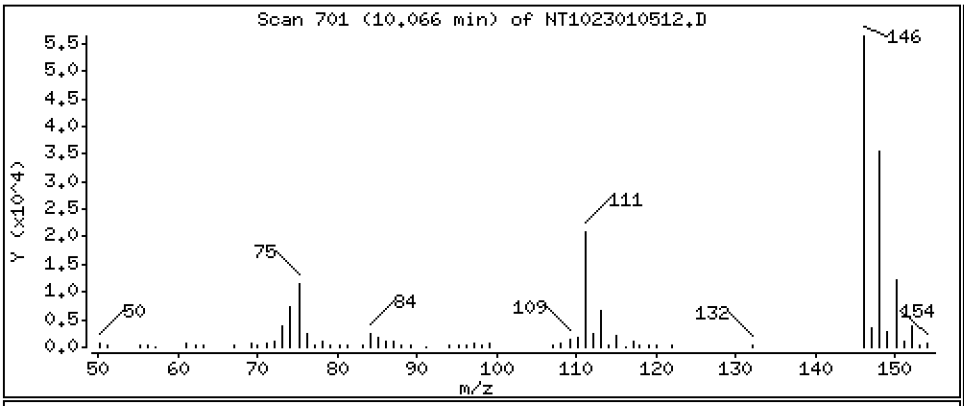
Operator: VTS

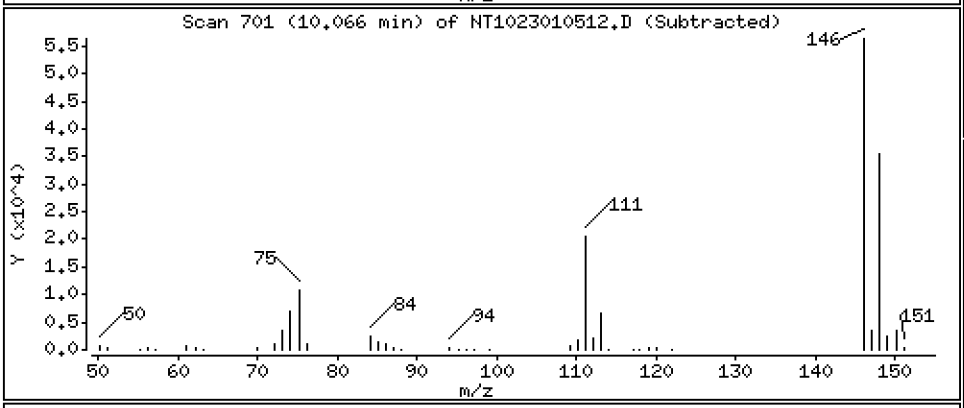
Column phase: ZB-5msi

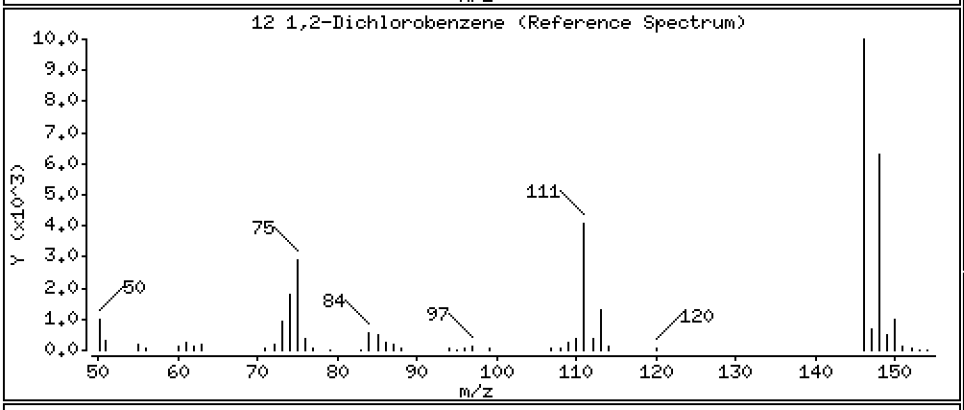
Column diameter: 0.25

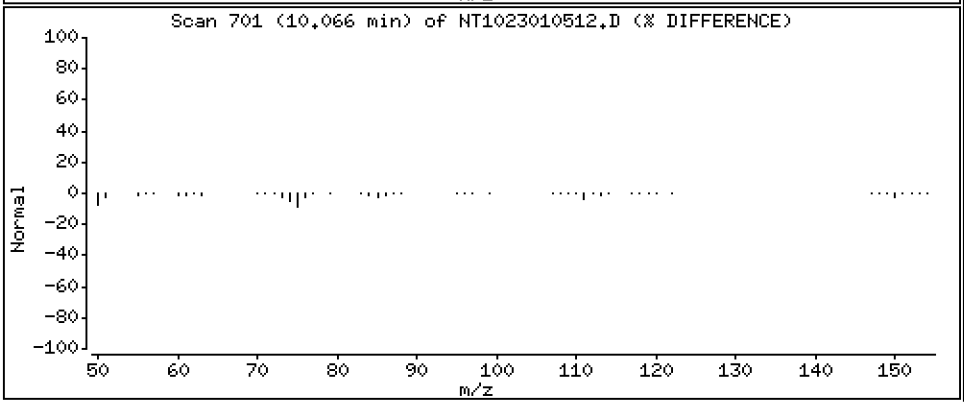
12 1,2-Dichlorobenzene

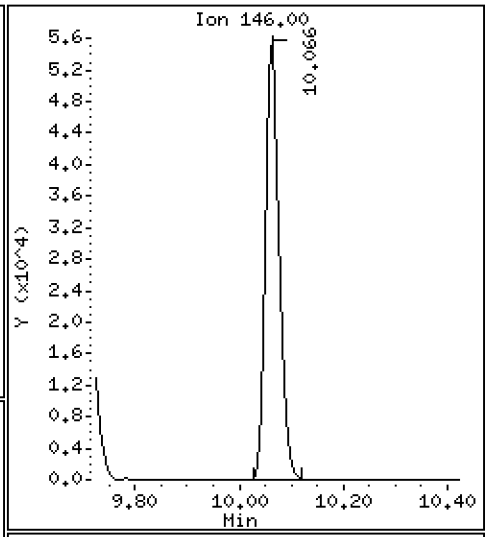
Concentration: 4.548 ug/mL

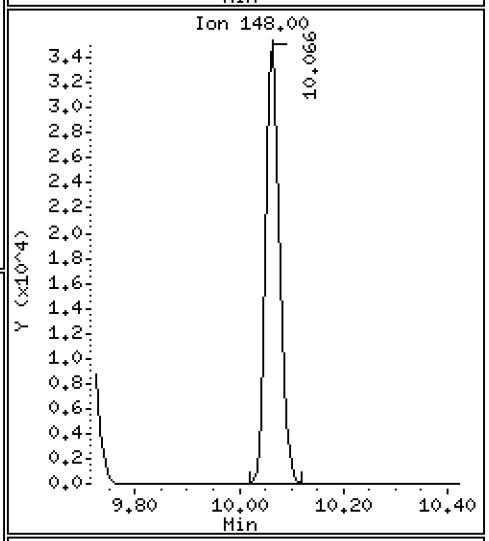


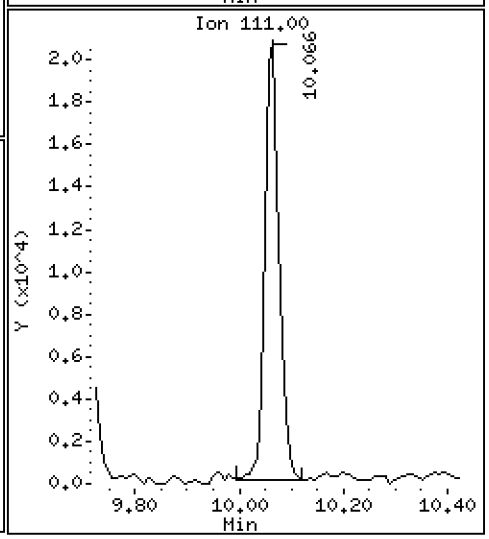












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

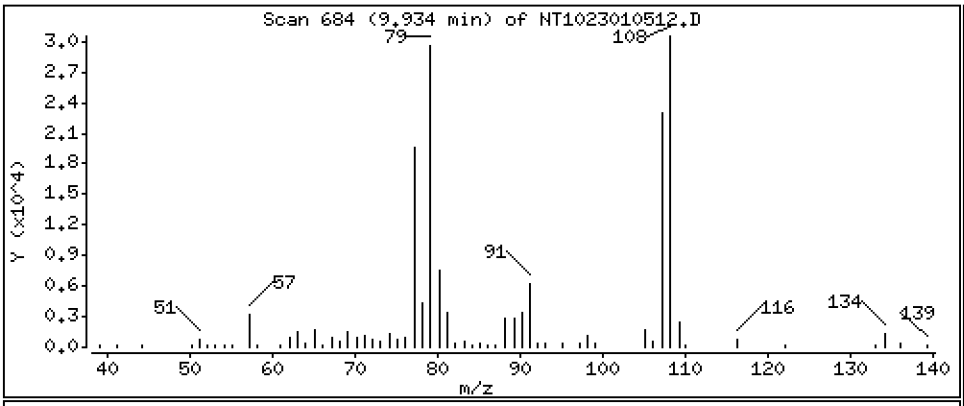
Operator: VTS

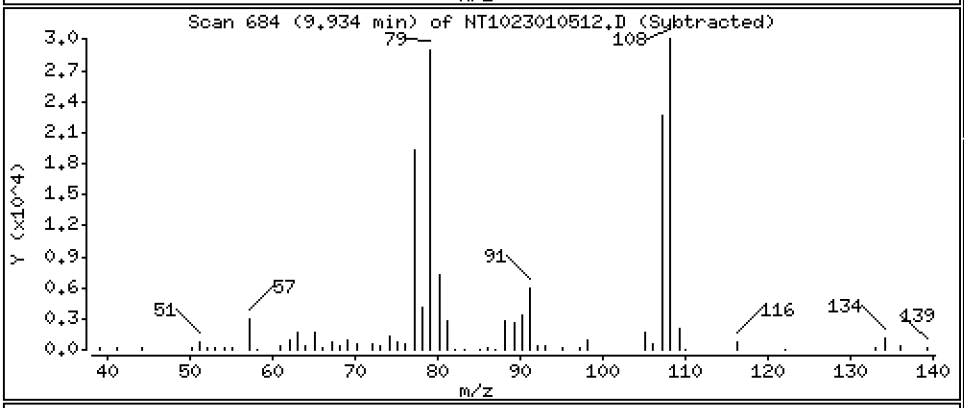
Column phase: ZB-5msi

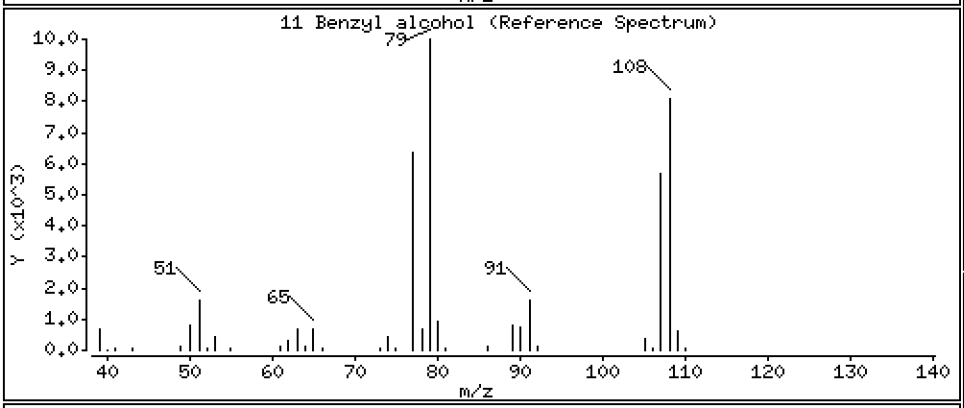
Column diameter: 0.25

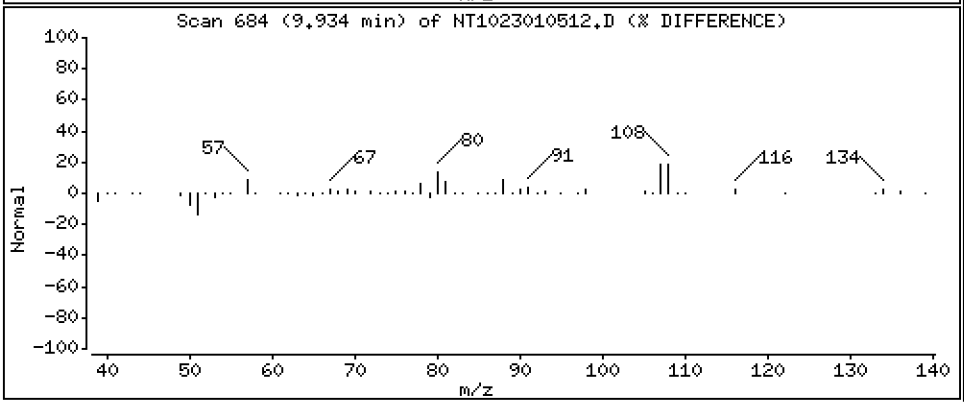
11 Benzyl alcohol

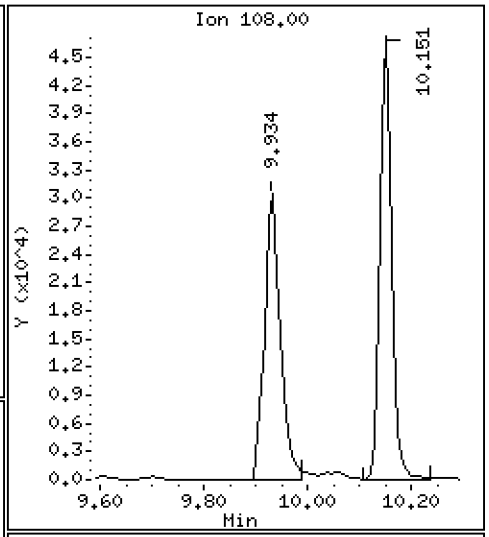
Concentration: 5.663 ug/mL

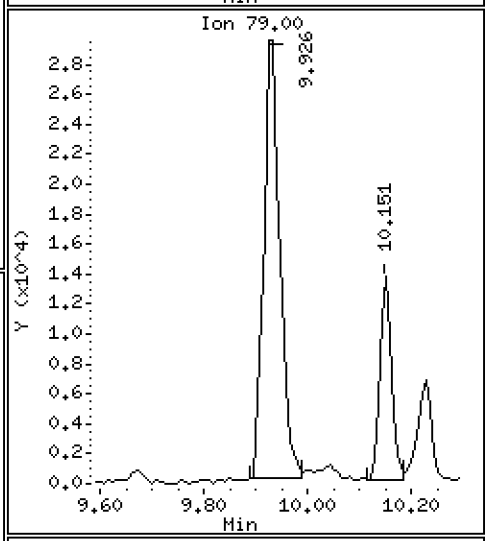


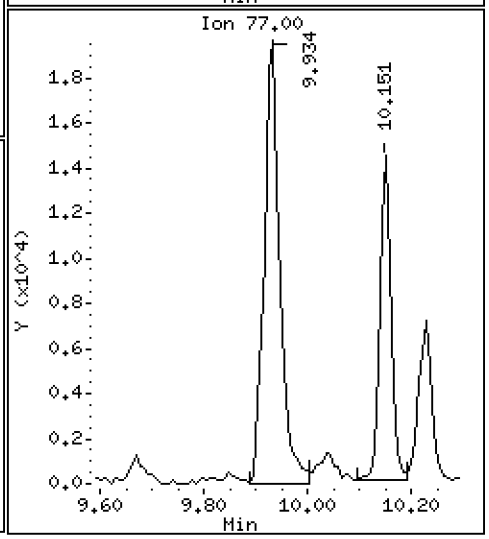












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

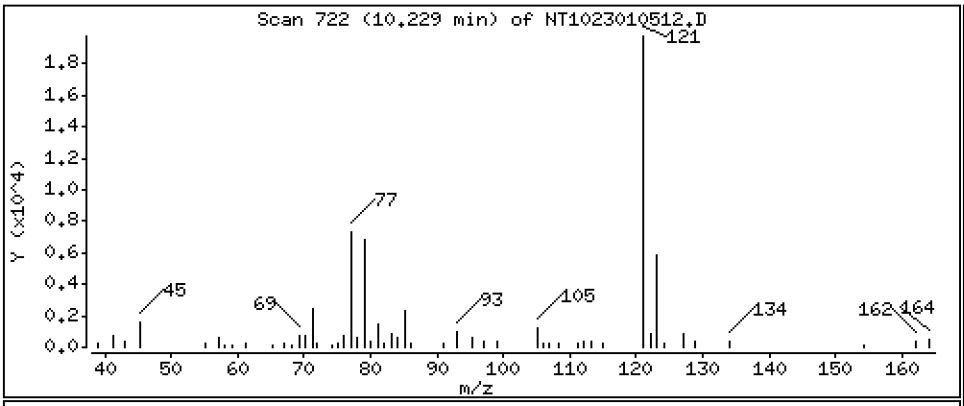
Operator: VTS

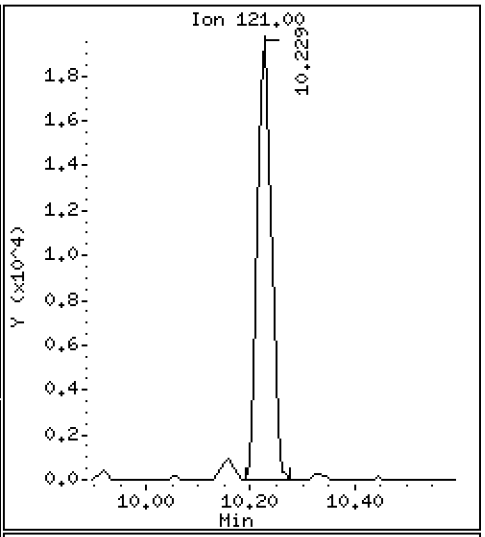
Column phase: ZB-5msi

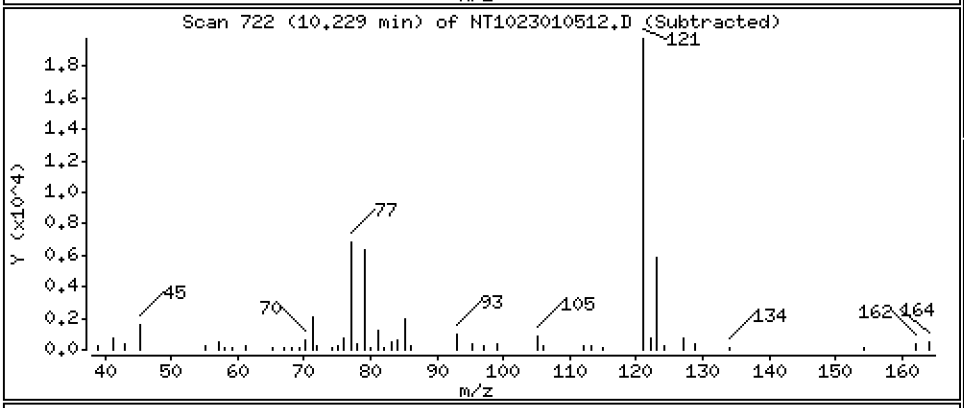
Column diameter: 0.25

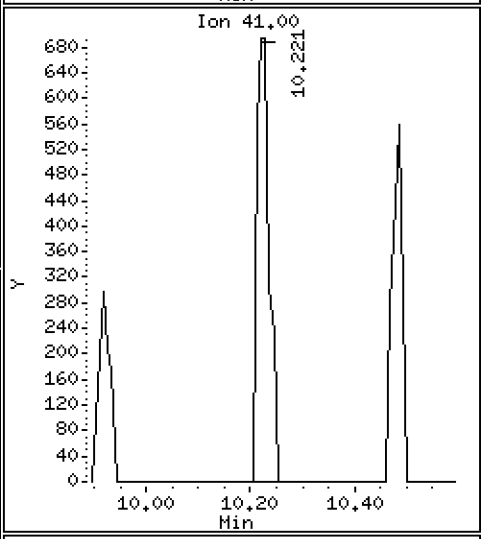
14 2,2'-oxybis(1-Chloropropane)

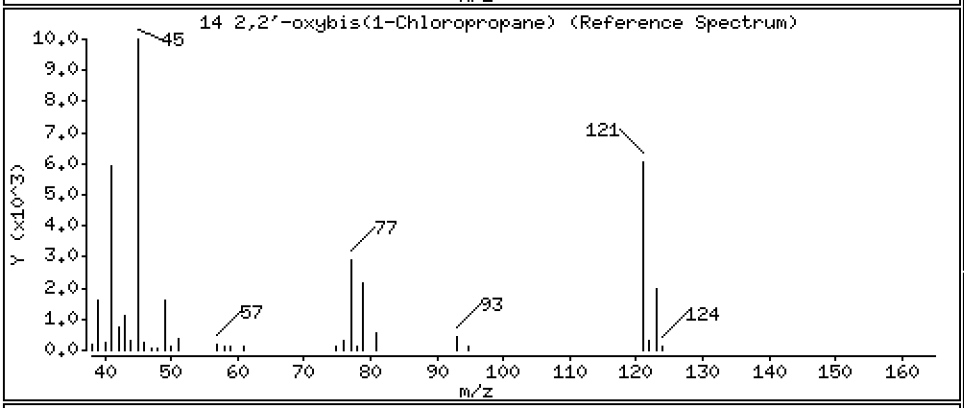
Concentration: 5.609 ug/mL

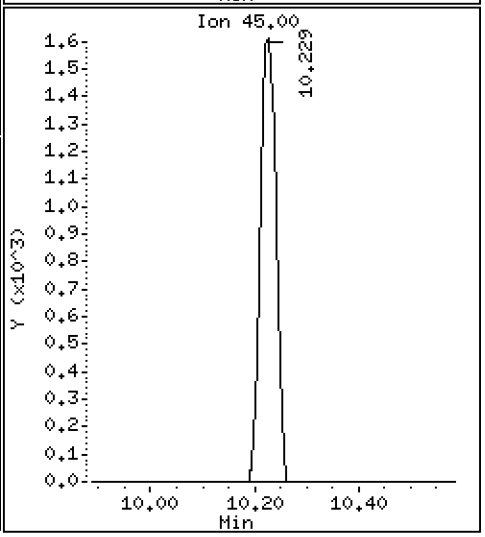


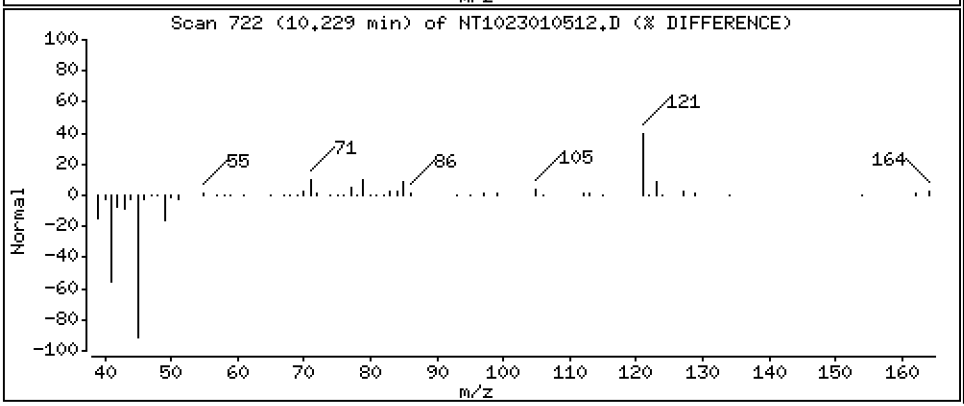












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

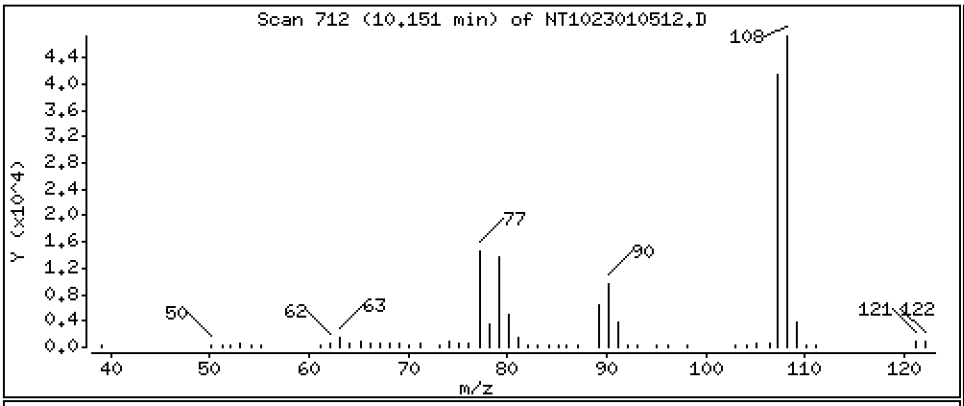
Operator: VTS

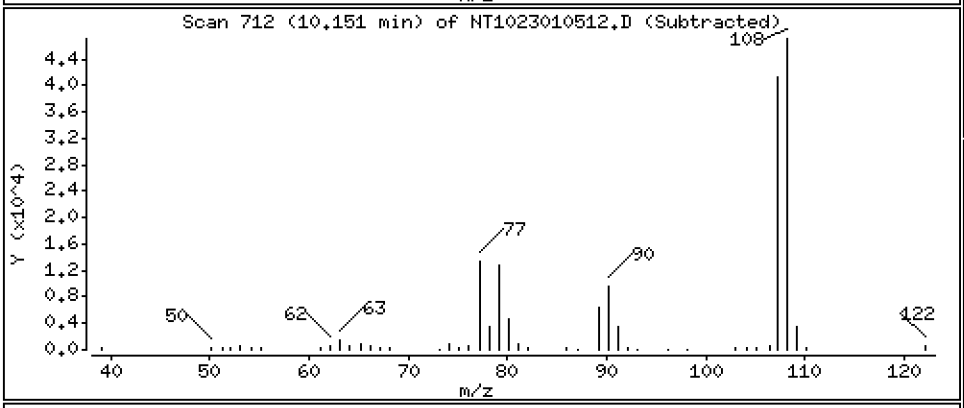
Column phase: ZB-5msi

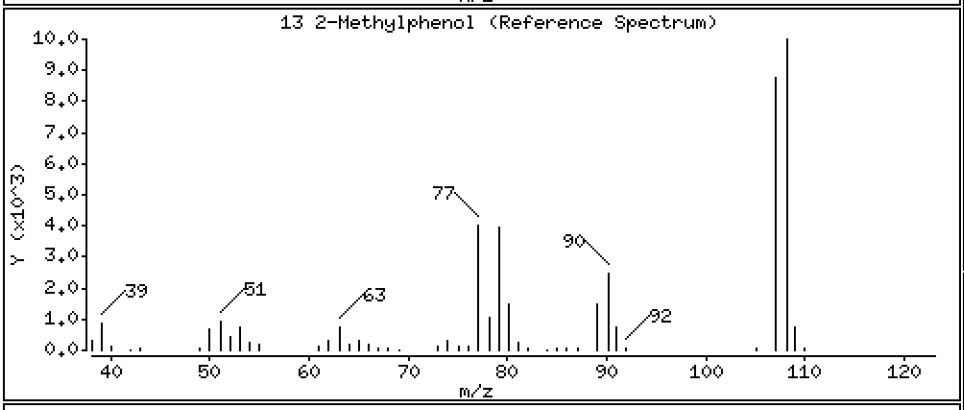
Column diameter: 0.25

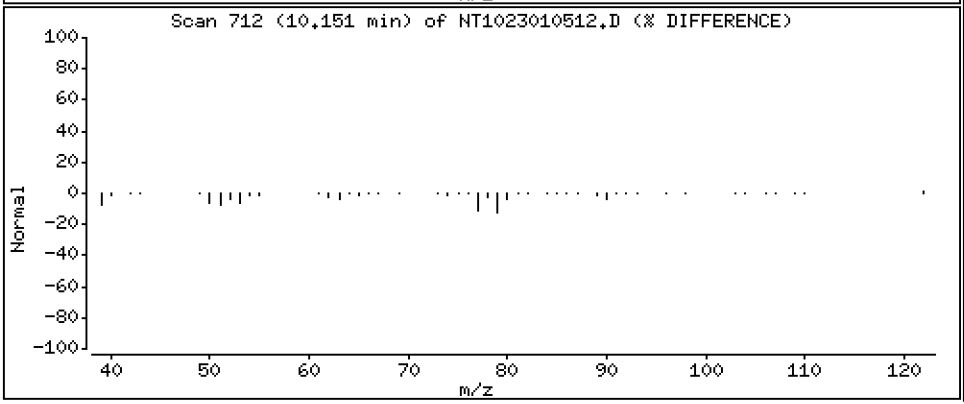
13 2-Methylphenol

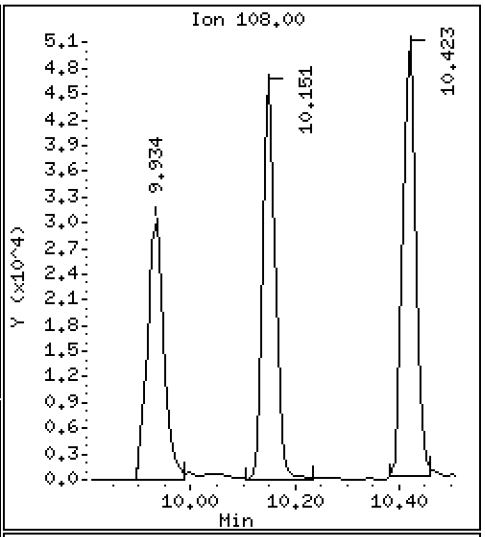
Concentration: 4.553 ug/mL

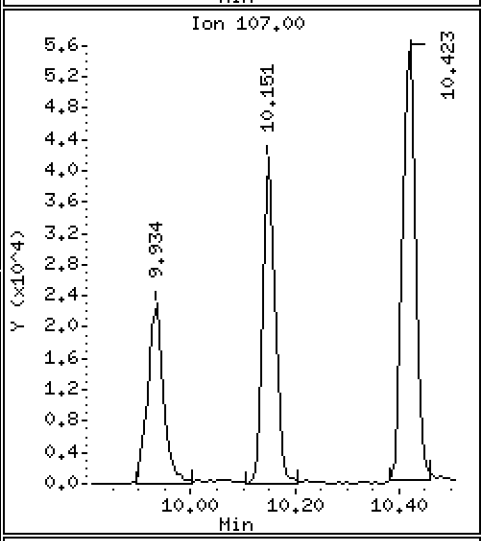


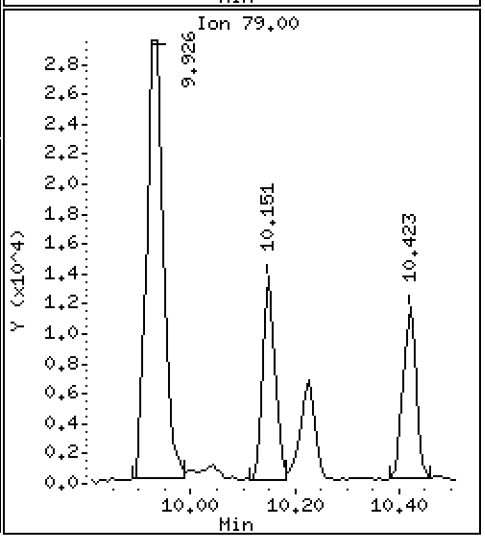












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

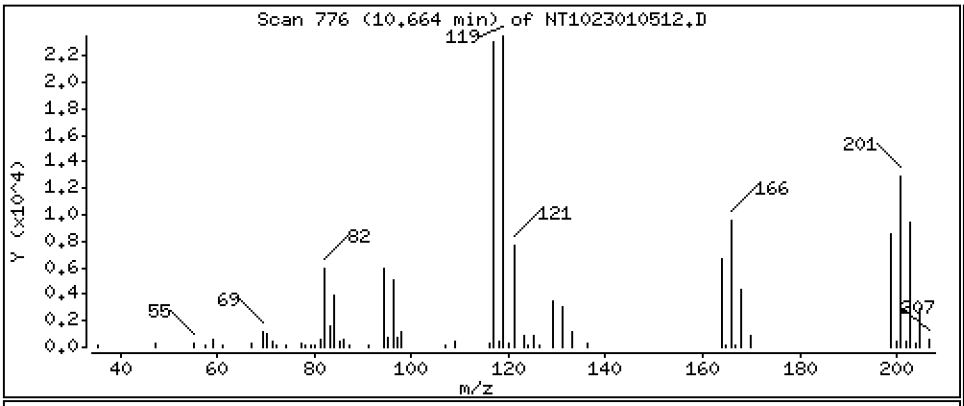
Operator: VTS

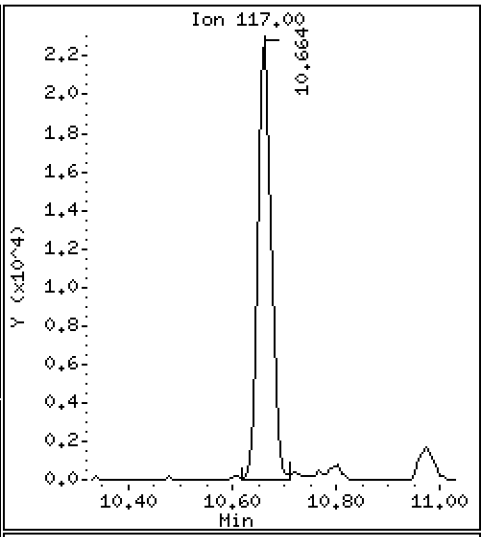
Column phase: ZB-5msi

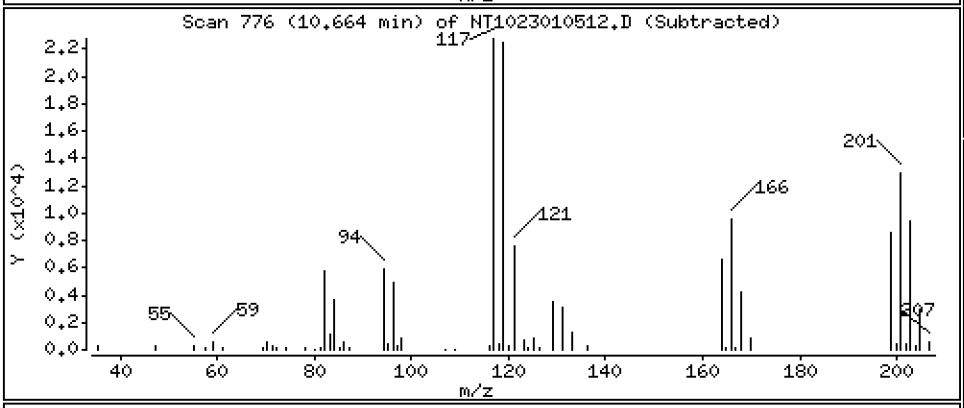
Column diameter: 0.25

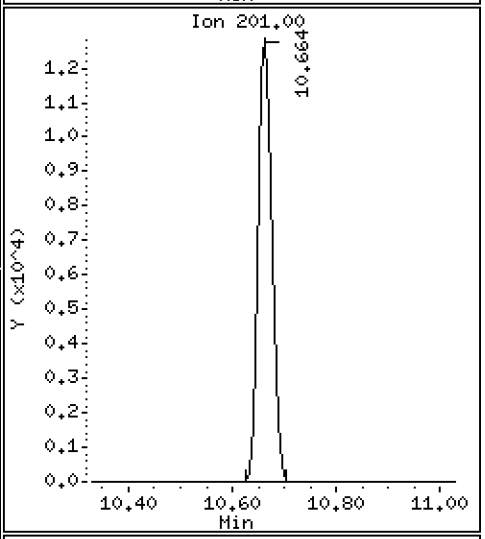
17 Hexachloroethane

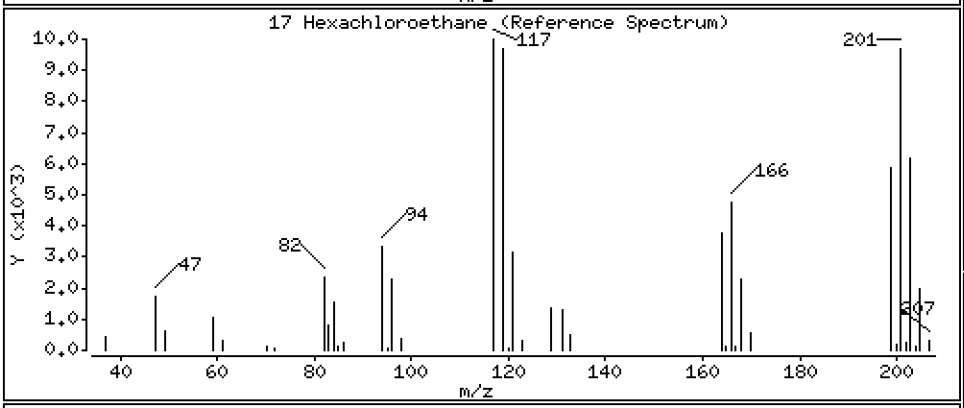
Concentration: 4.202 ug/mL

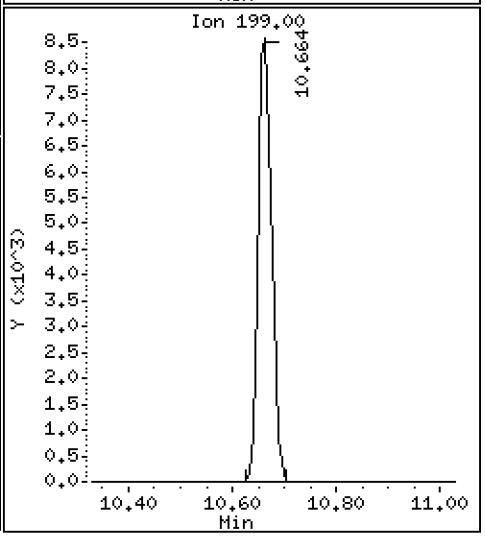


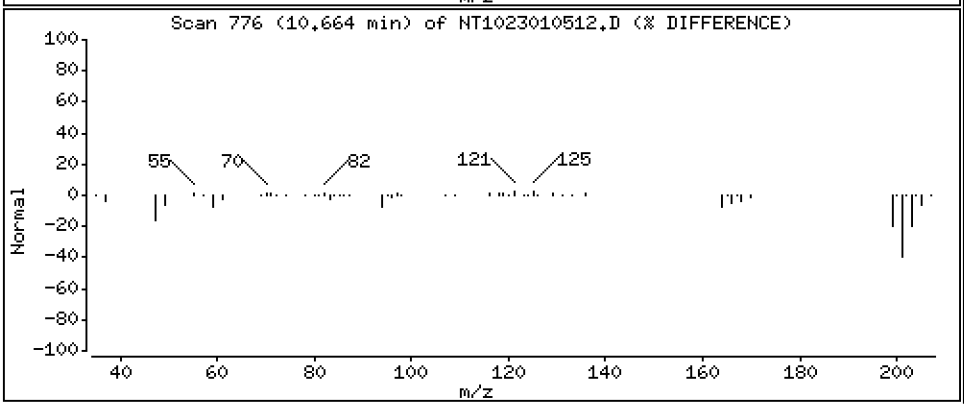












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

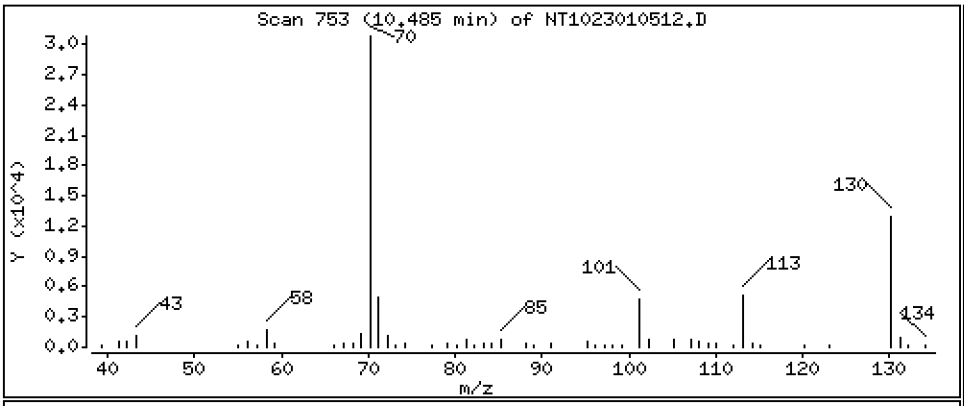
Operator: VTS

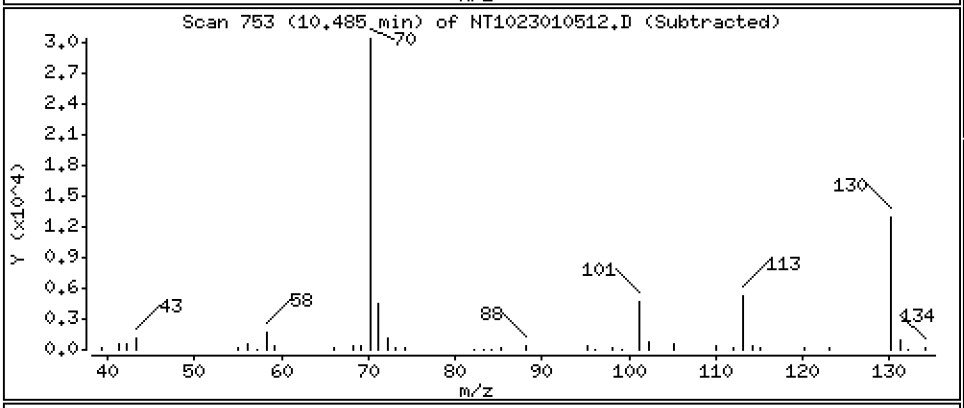
Column phase: ZB-5msi

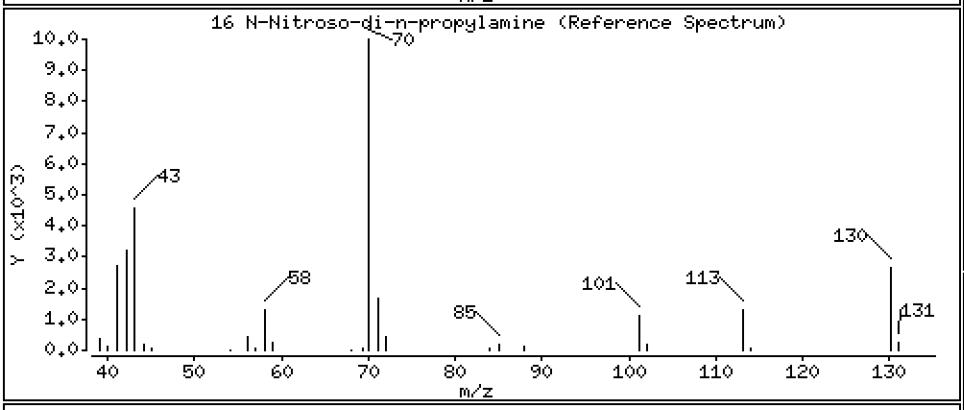
Column diameter: 0.25

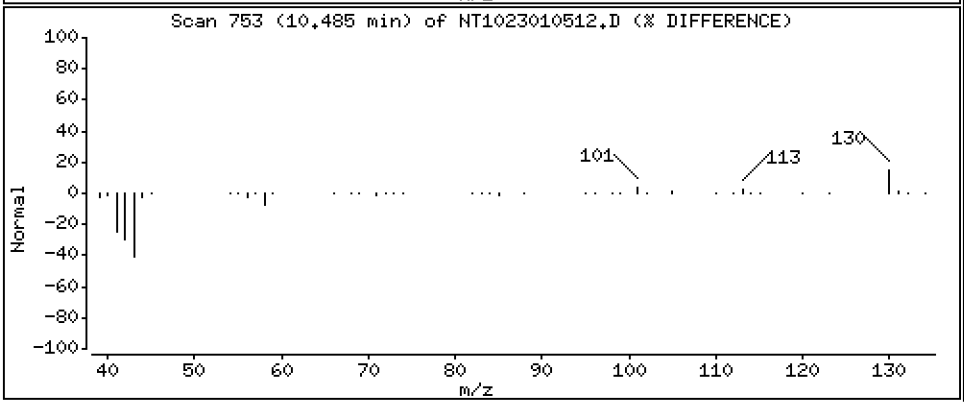
16 N-Nitroso-di-n-propylamine

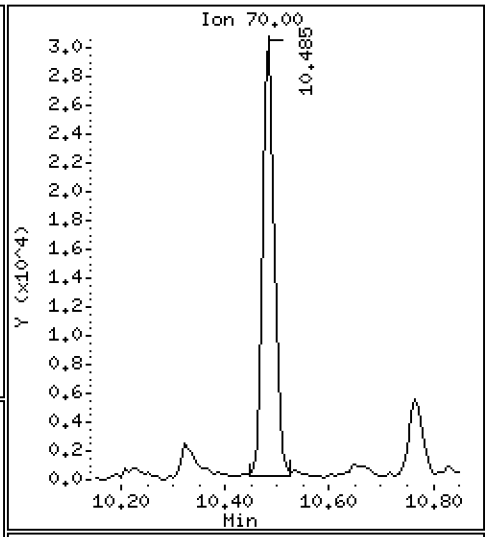
Concentration: 5.254 ug/mL

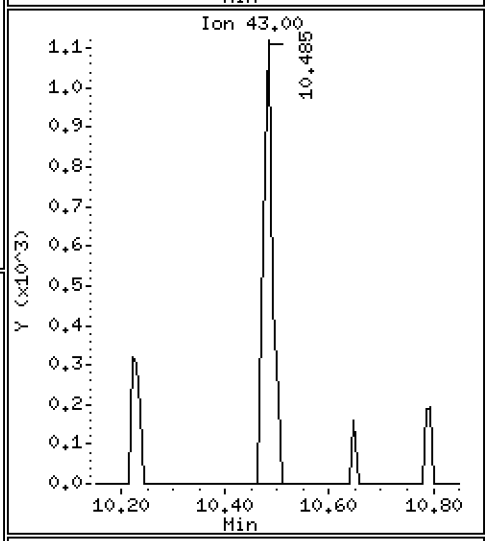


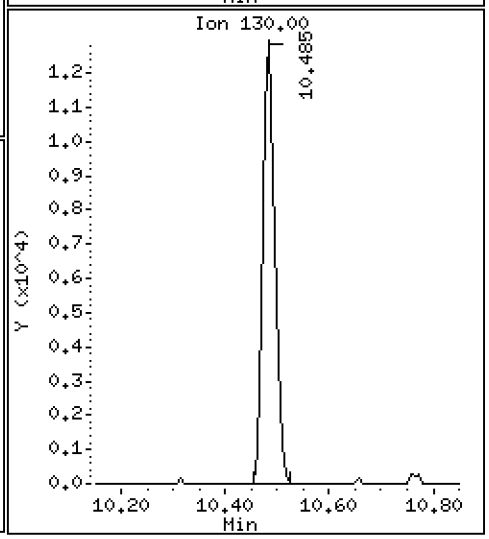












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

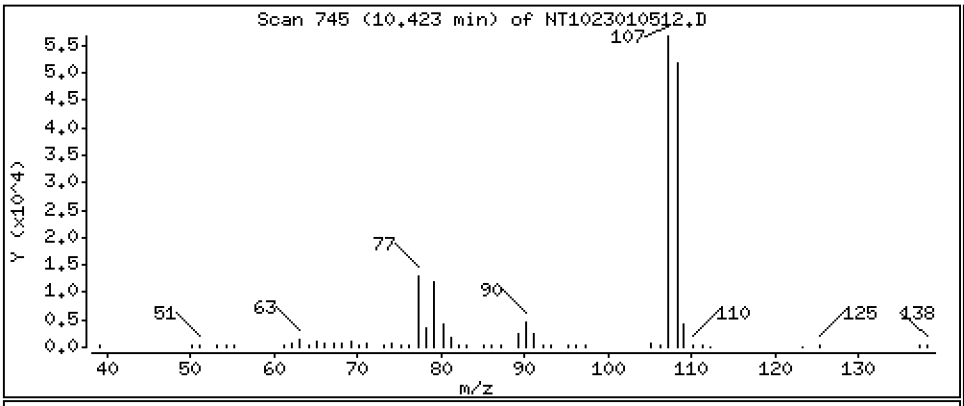
Operator: VTS

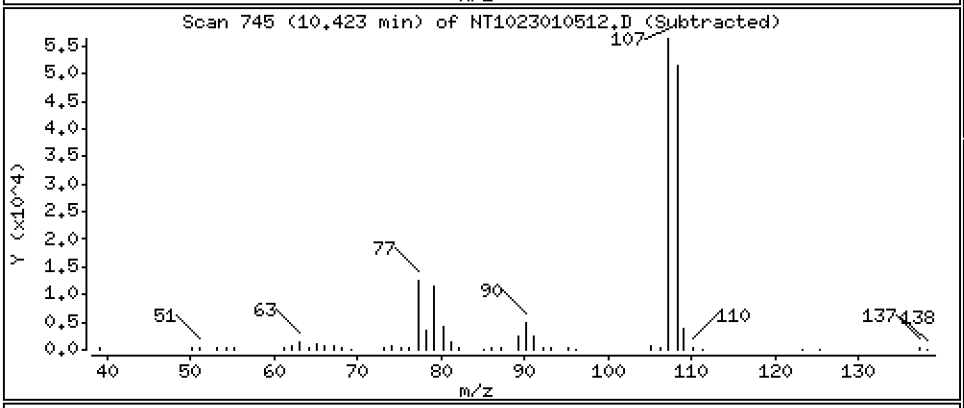
Column phase: ZB-5msi

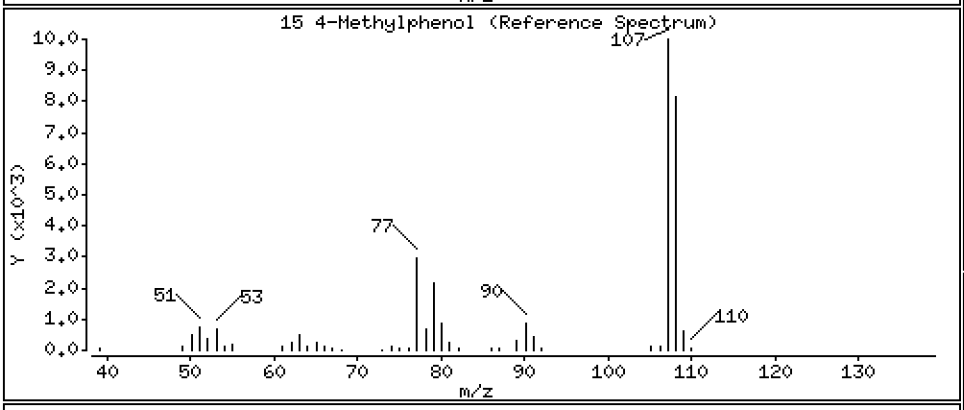
Column diameter: 0.25

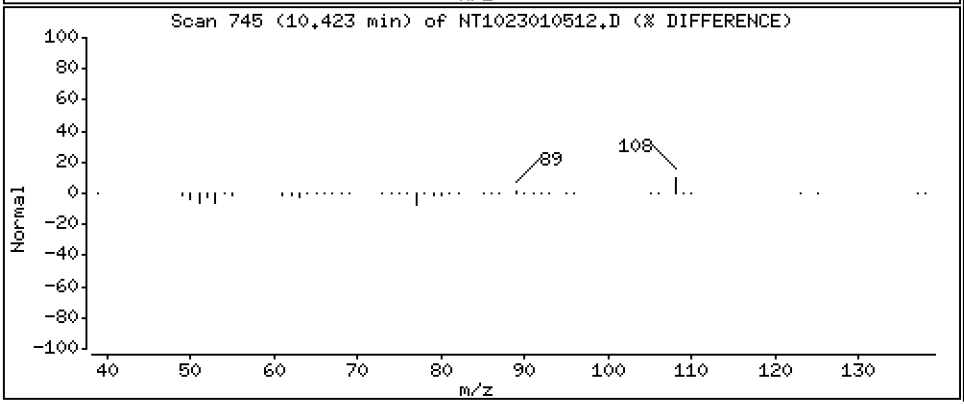
15 4-Methylphenol

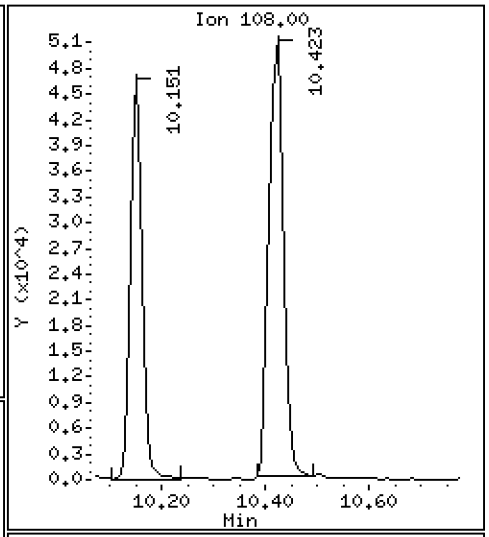
Concentration: 6.947 ug/mL

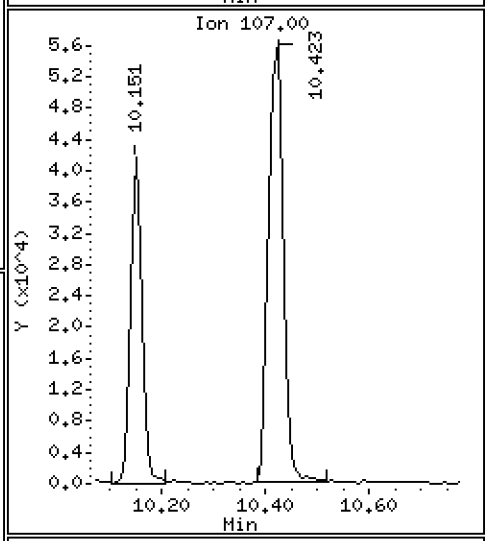


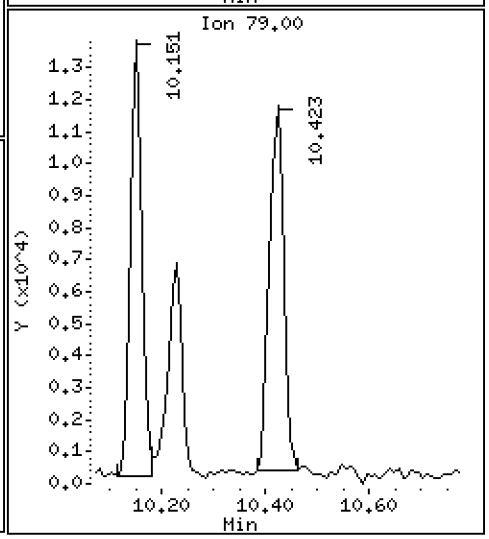












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

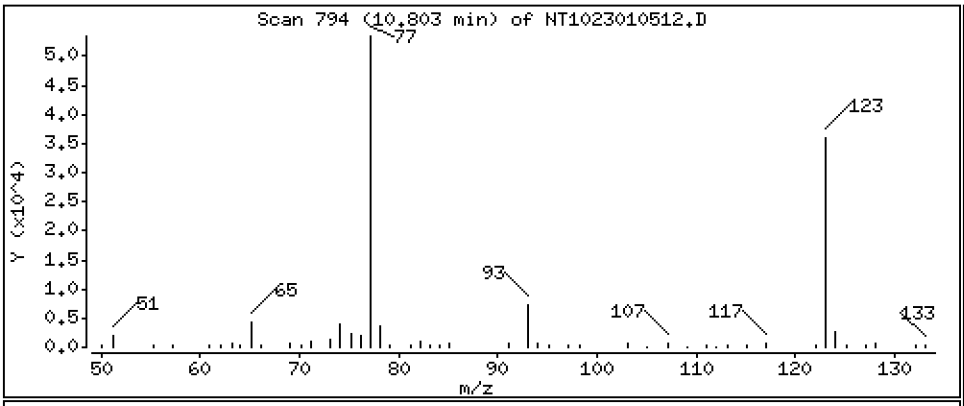
Operator: VTS

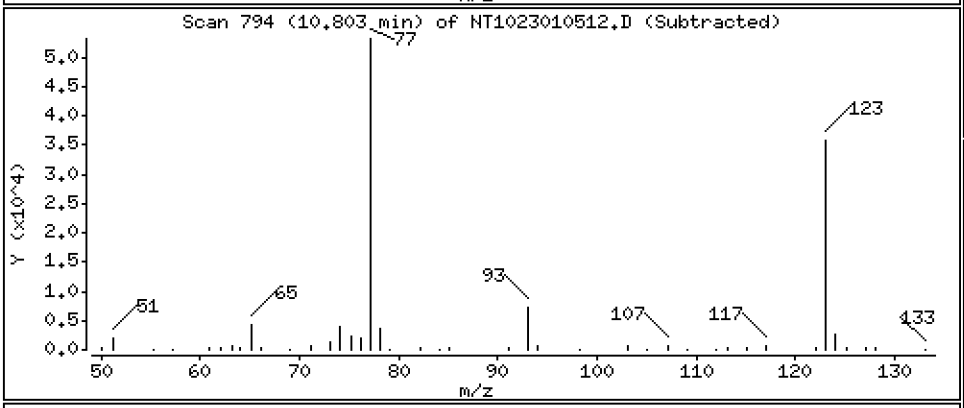
Column phase: ZB-5msi

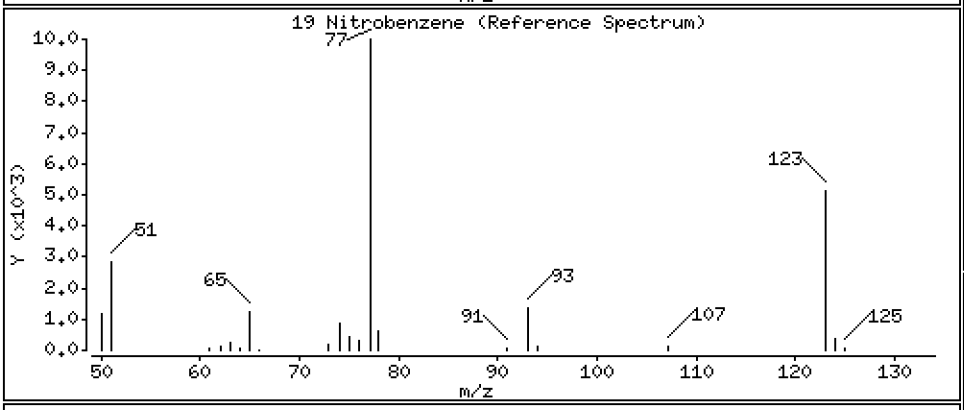
Column diameter: 0.25

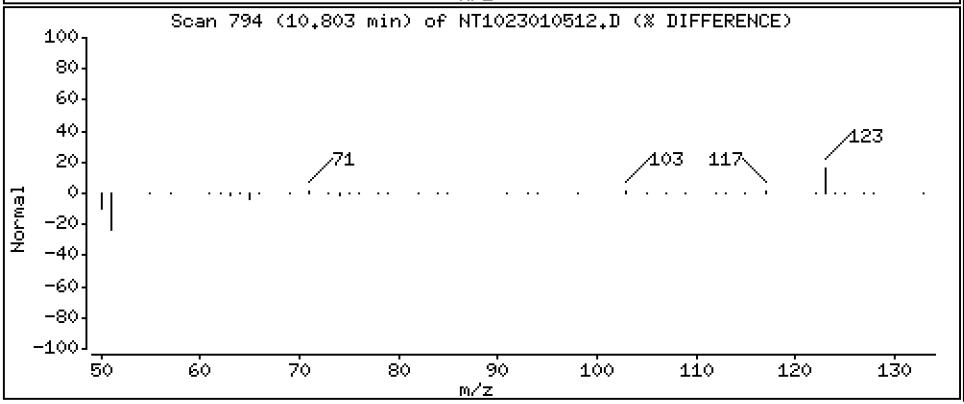
19 Nitrobenzene

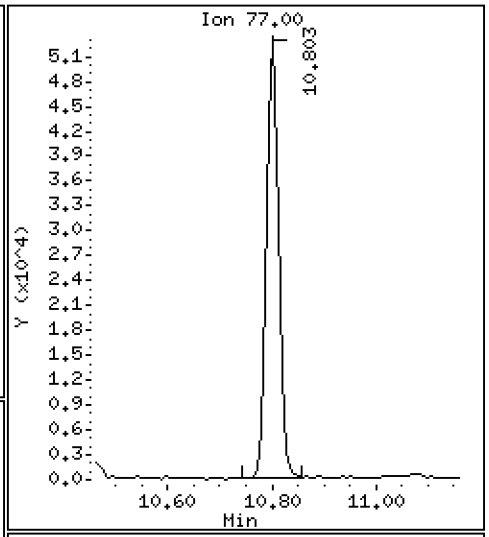
Concentration: 5.394 ug/mL

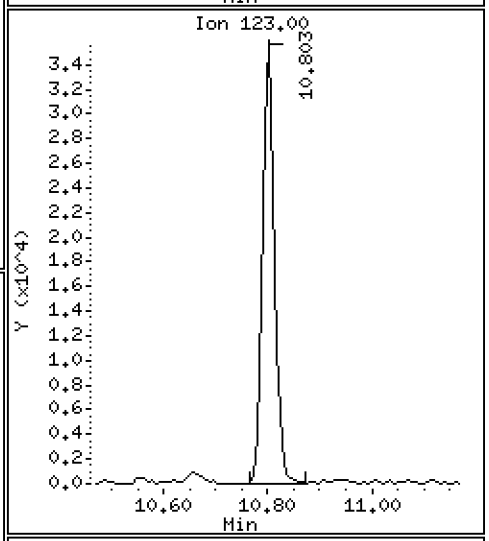


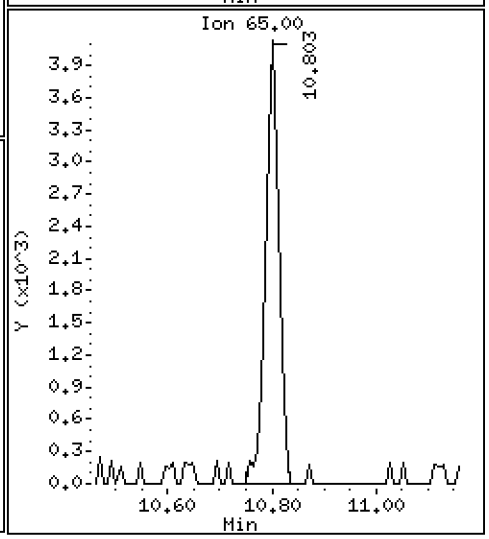












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

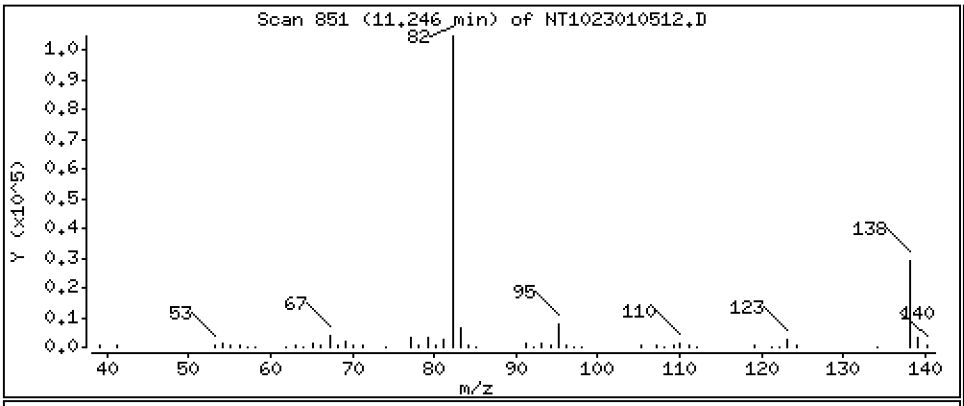
Operator: VTS

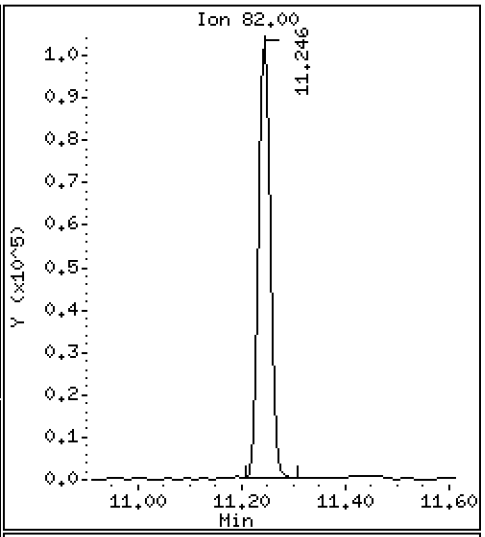
Column phase: ZB-5msi

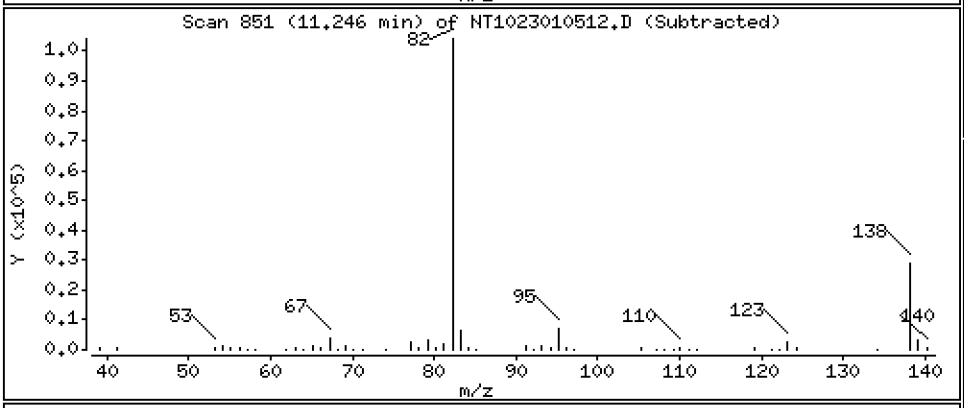
Column diameter: 0.25

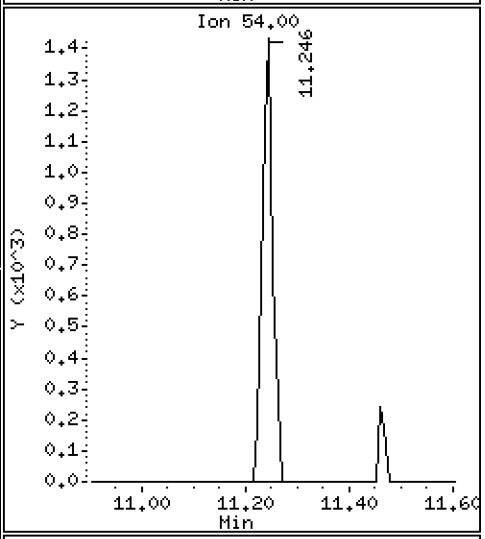
20 Isophorone

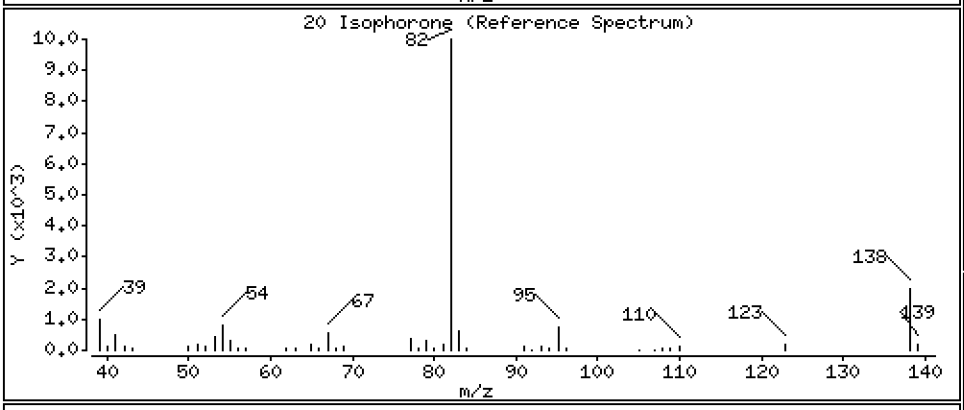
Concentration: 7.212 ug/mL

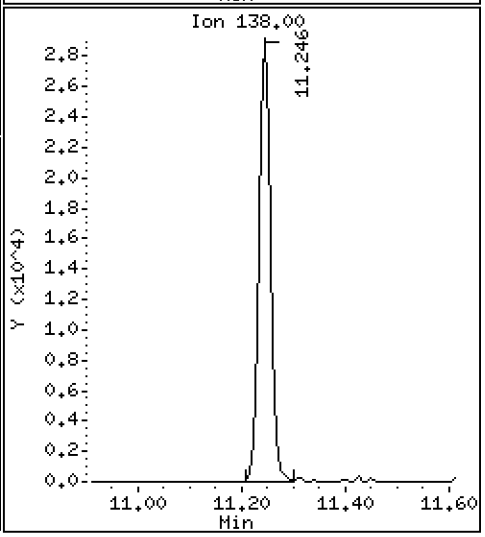


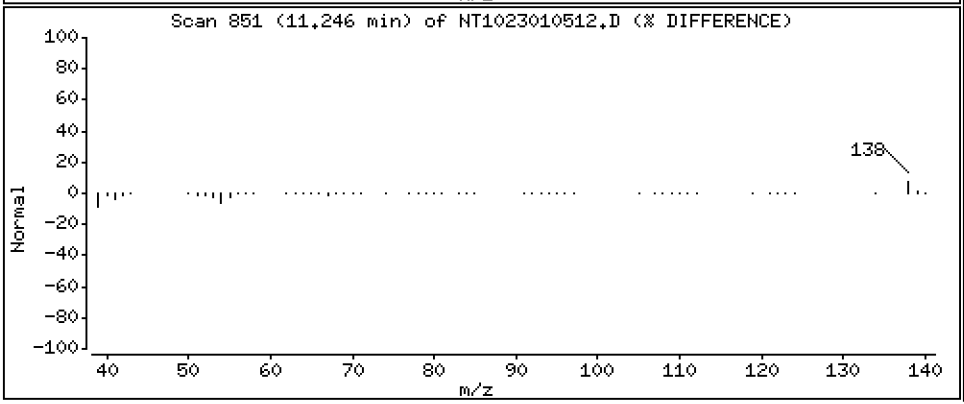












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

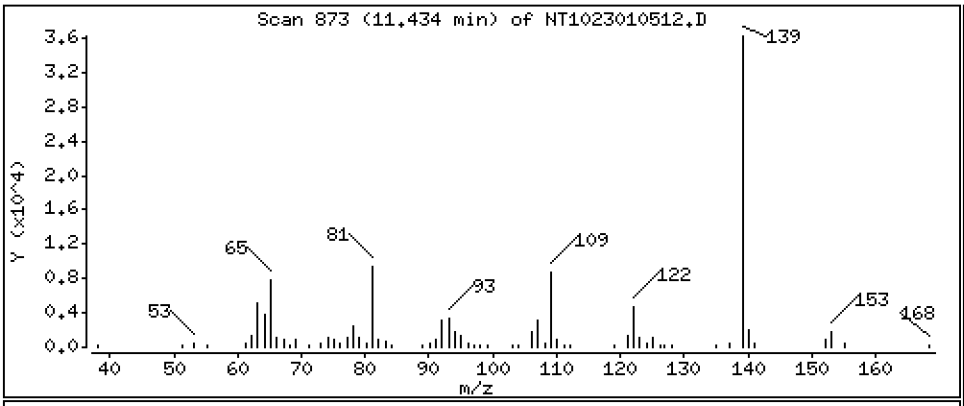
Operator: VTS

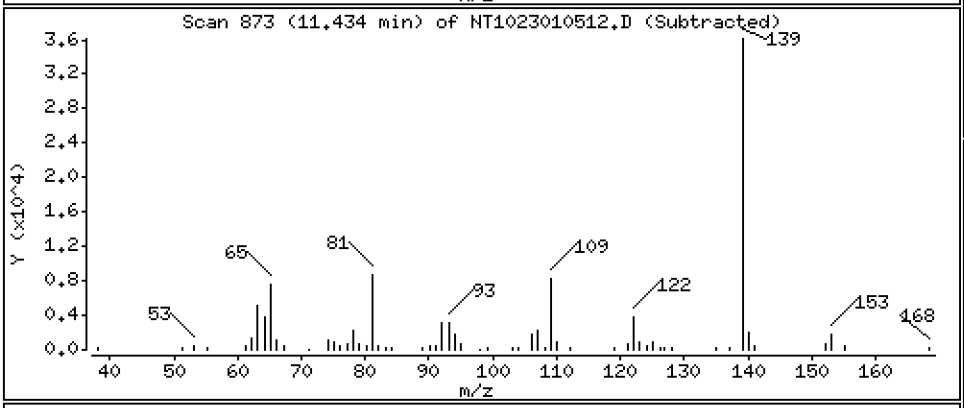
Column phase: ZB-5msi

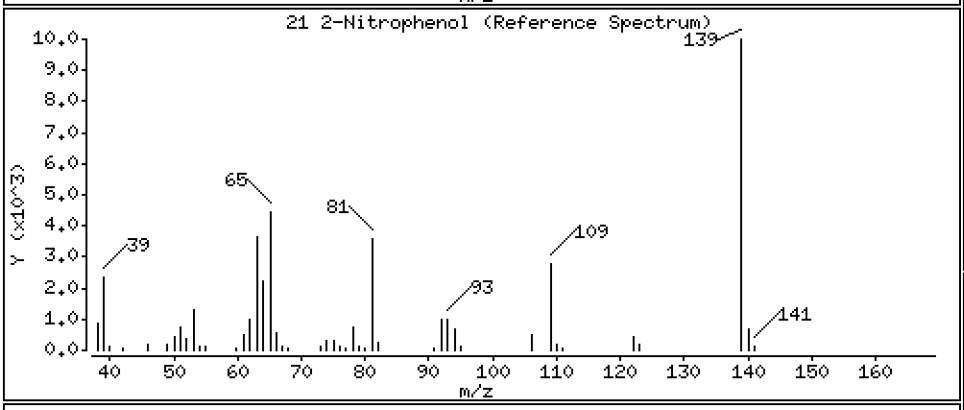
Column diameter: 0.25

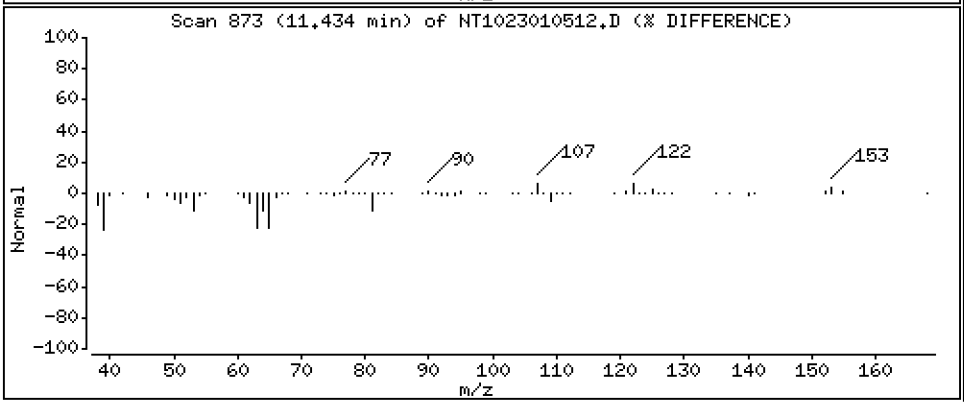
21 2-Nitrophenol

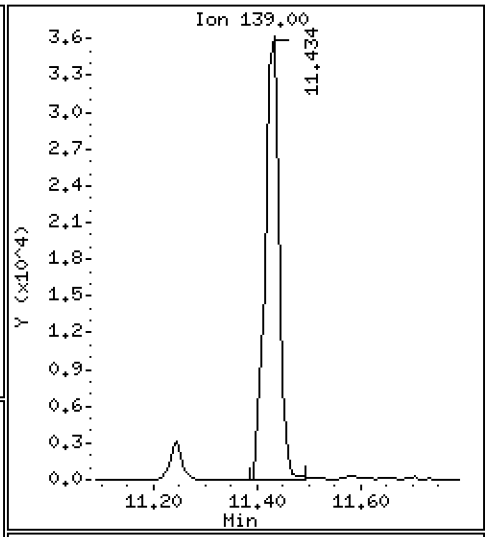
Concentration: 5.031 ug/mL

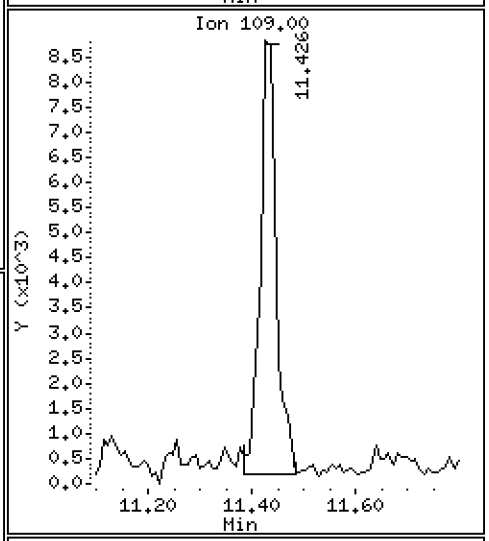


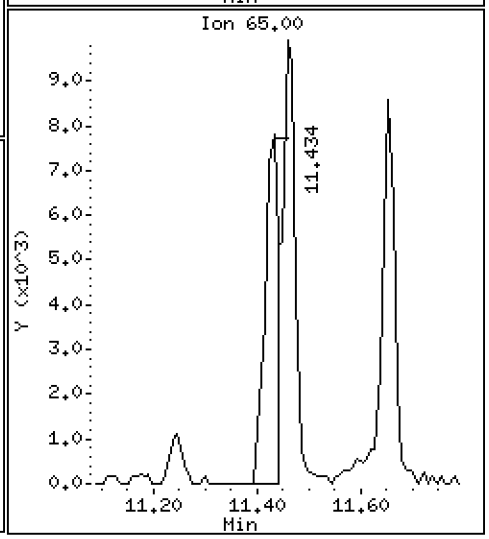












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

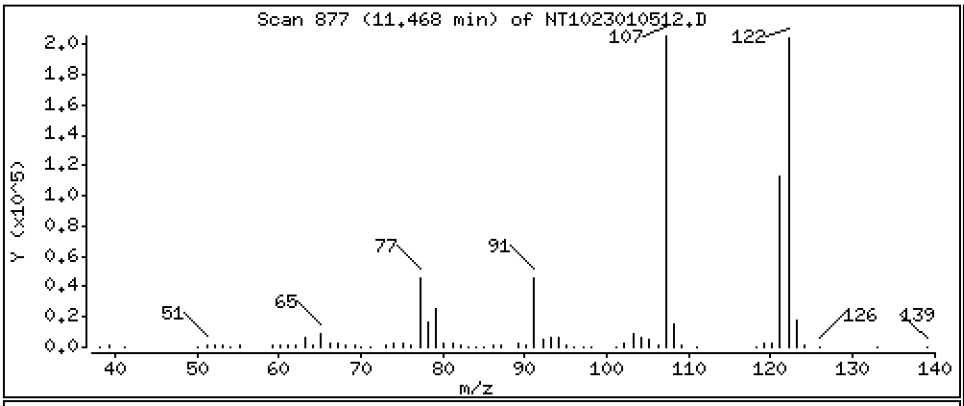
Operator: VTS

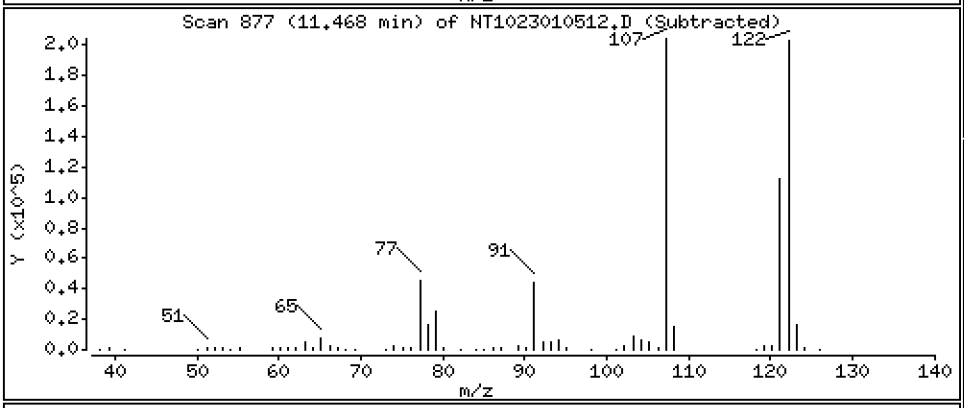
Column phase: ZB-5msi

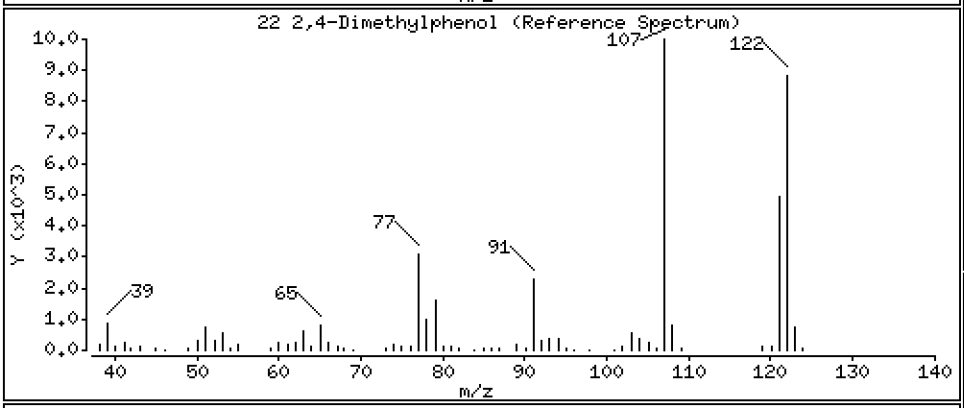
Column diameter: 0.25

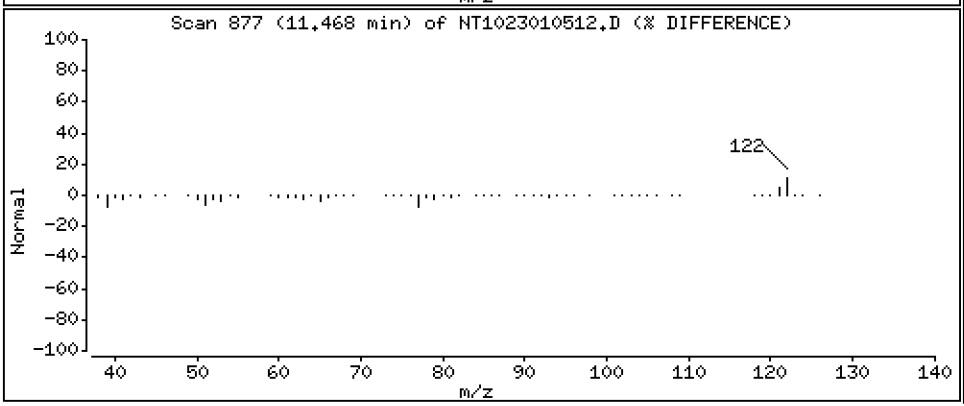
22 2,4-Dimethylphenol

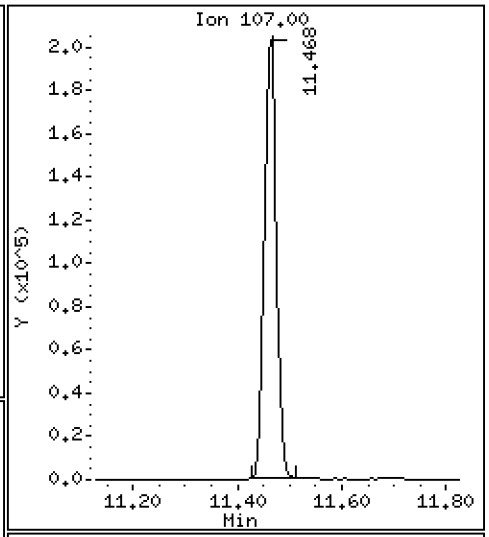
Concentration: 17.03 ug/mL

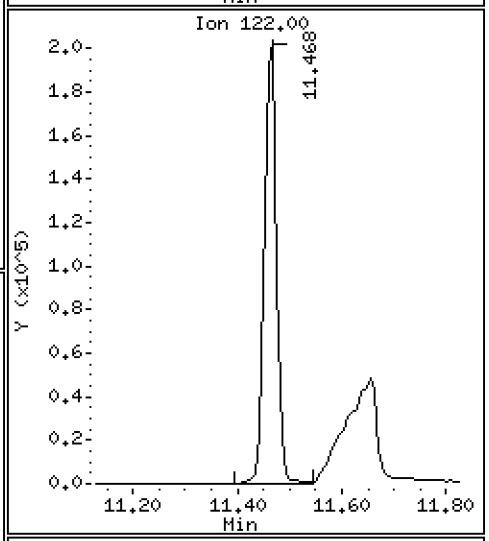


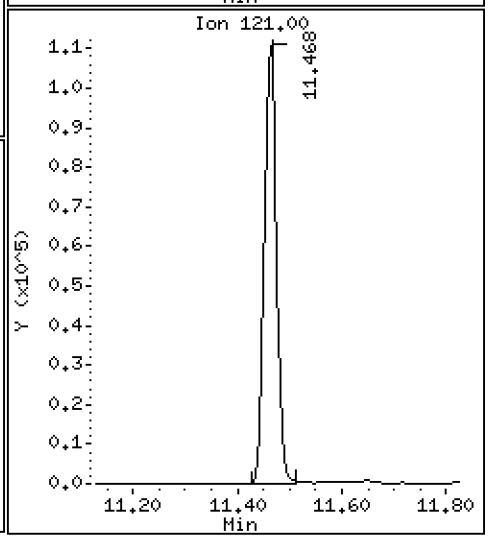












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

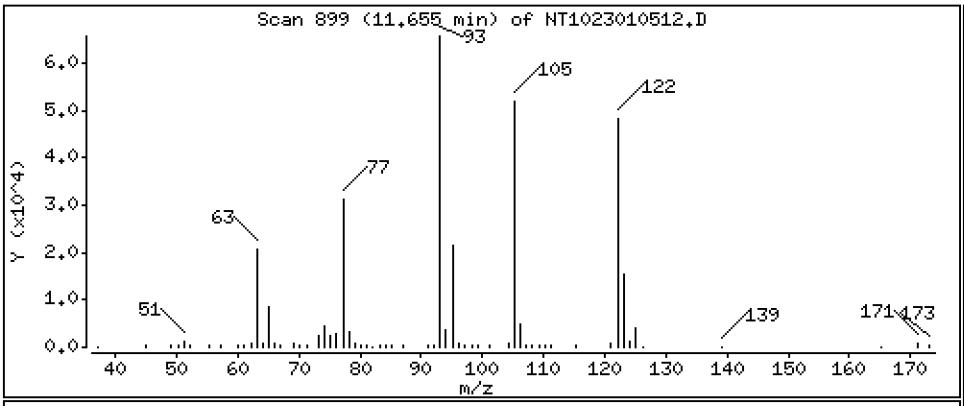
Operator: VTS

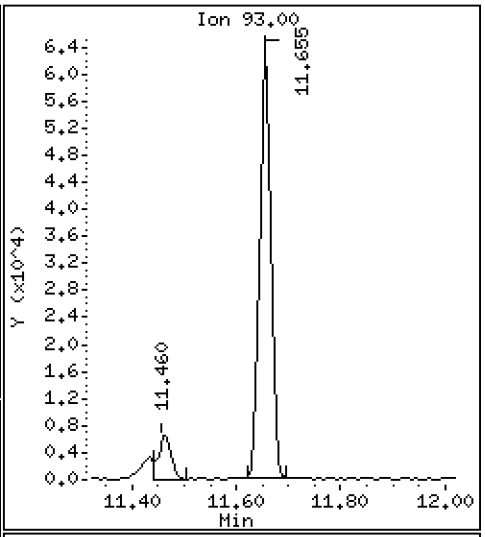
Column phase: ZB-5msi

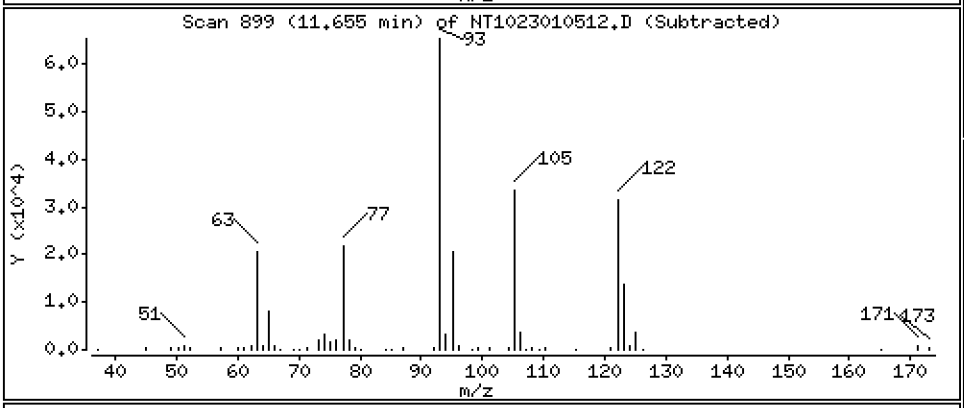
Column diameter: 0.25

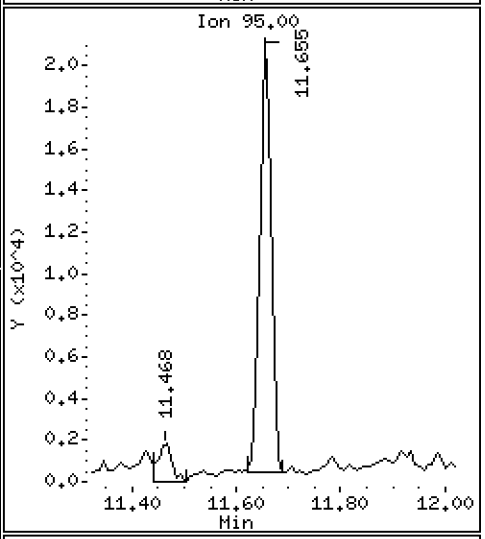
23 Bis(2-Chloroethoxy)methane

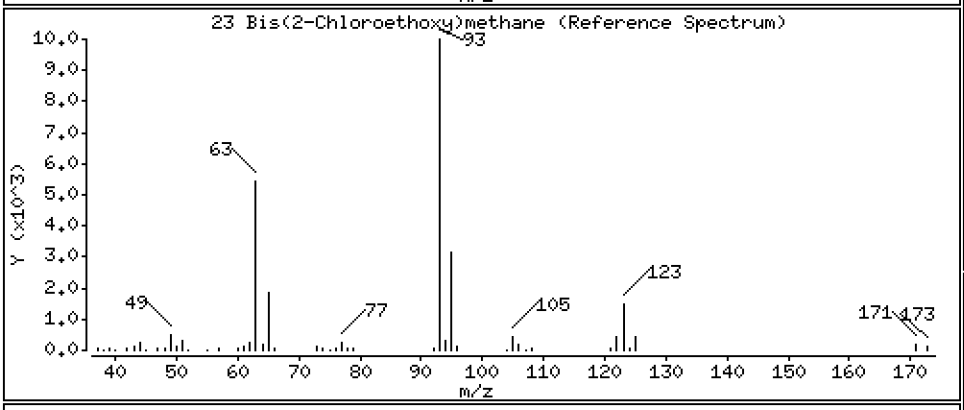
Concentration: 5.709 ug/mL

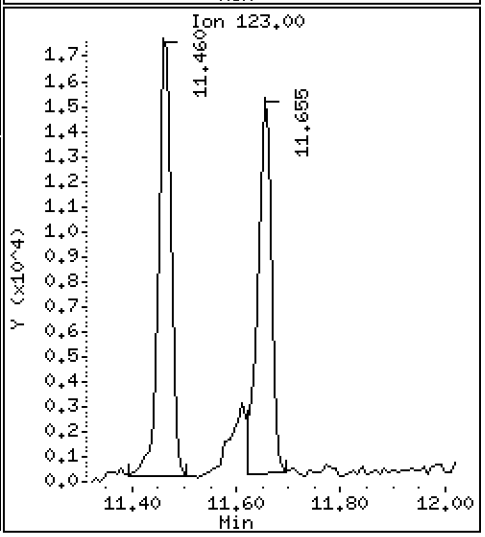


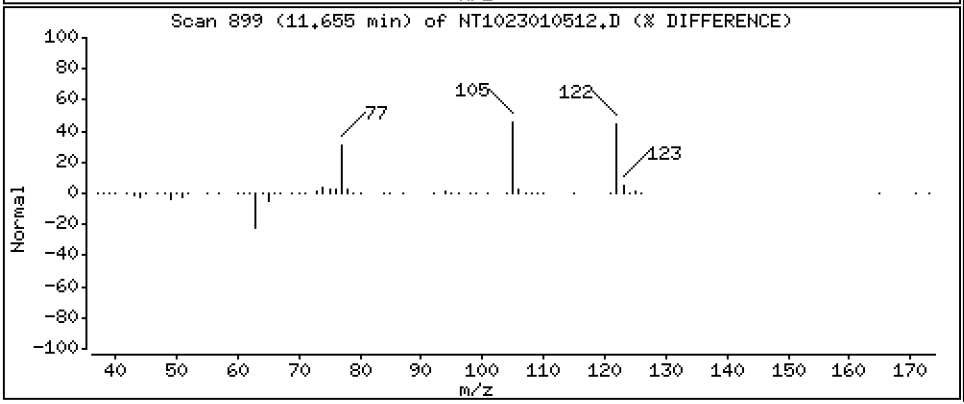












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

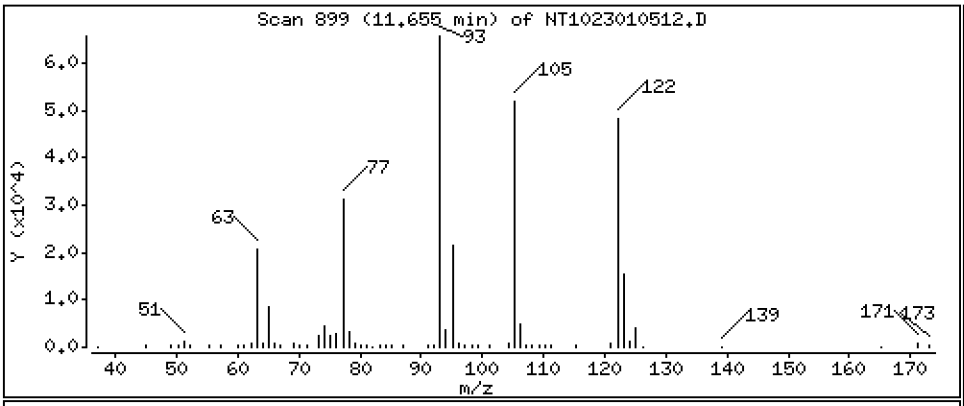
Operator: VTS

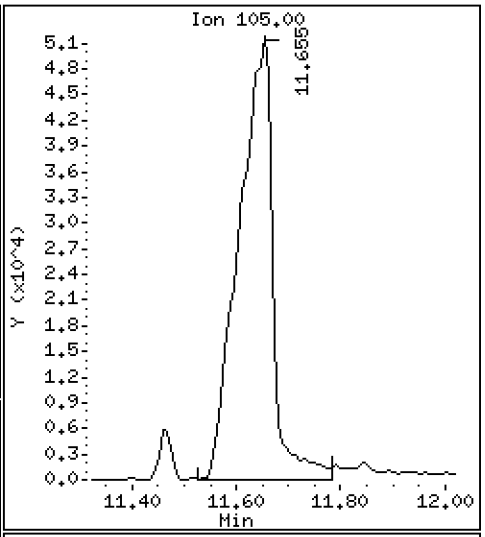
Column phase: ZB-5msi

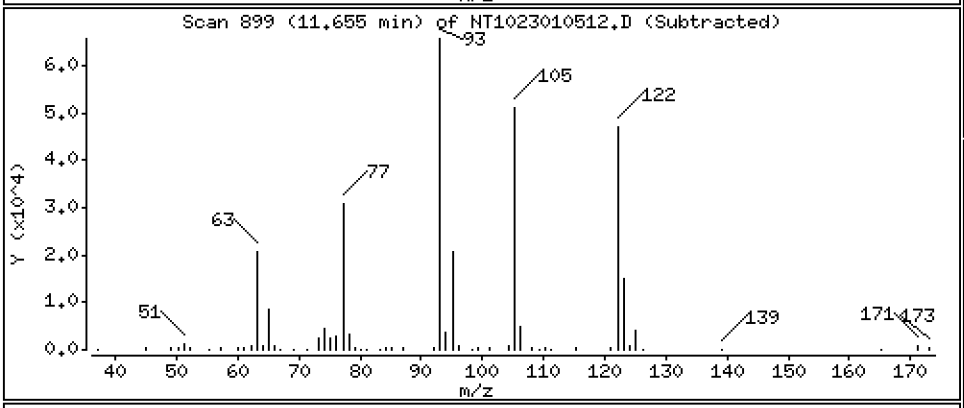
Column diameter: 0.25

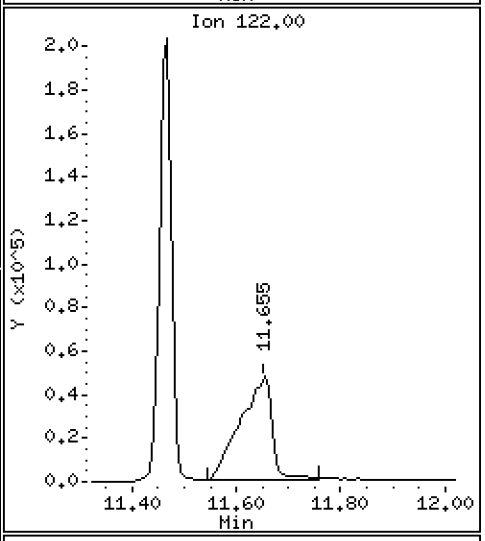
24 Benzoic acid

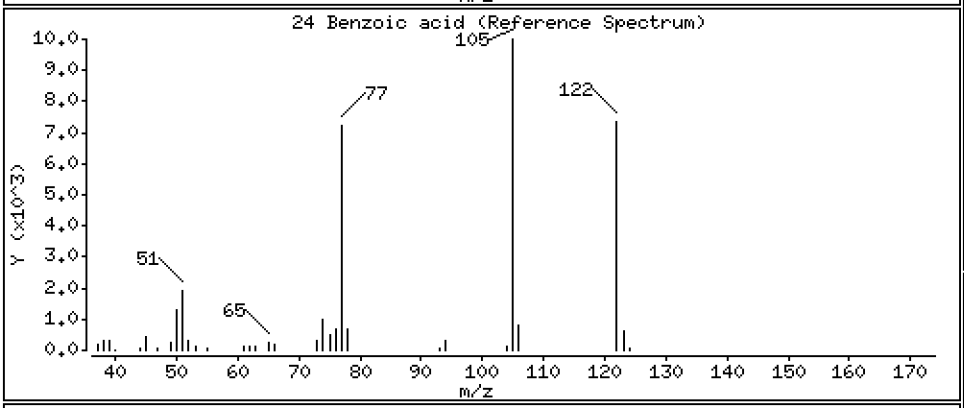
Concentration: 27.14 ug/mL

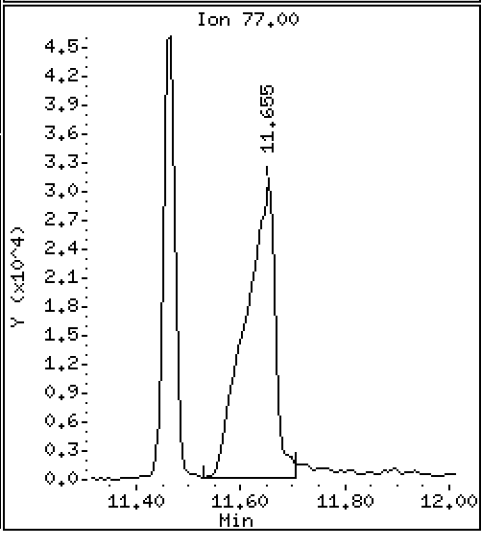


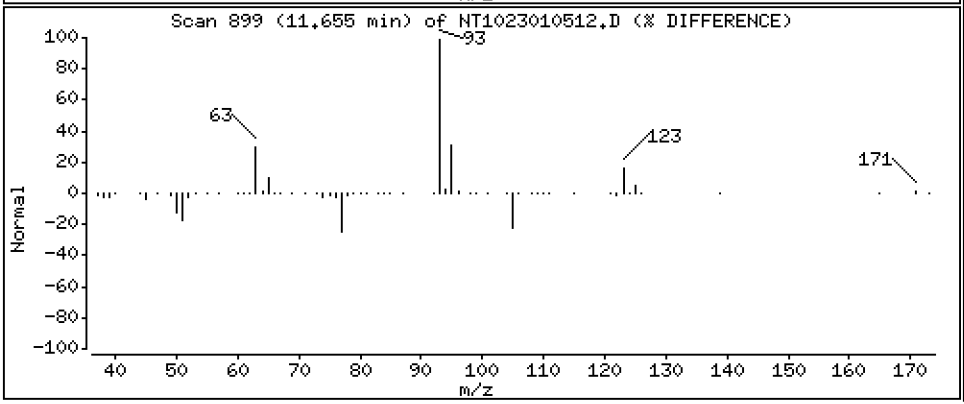












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

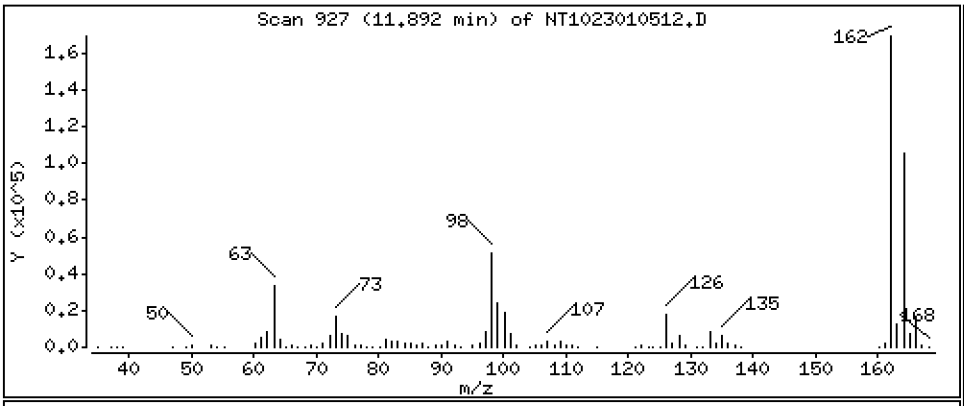
Operator: VTS

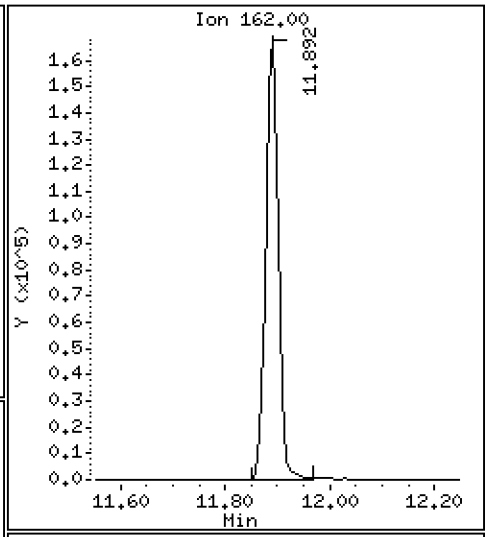
Column phase: ZB-5msi

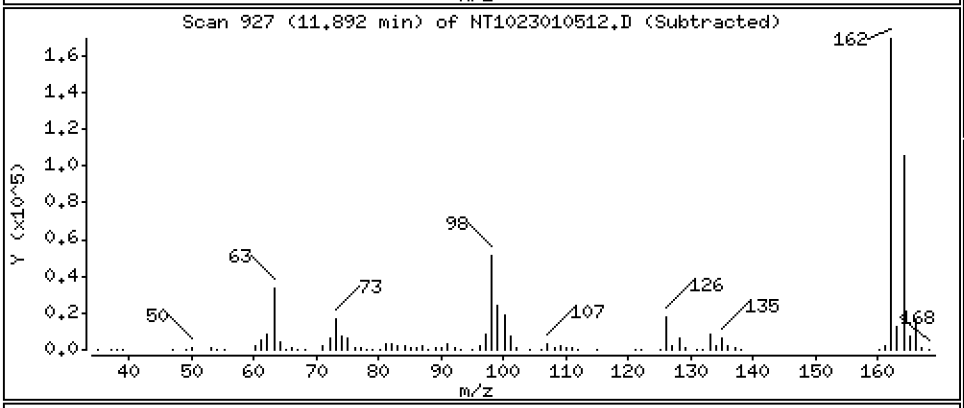
Column diameter: 0.25

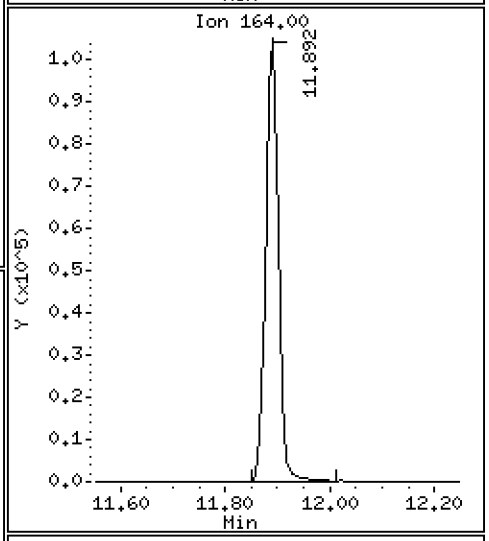
25 2,4-Dichlorophenol

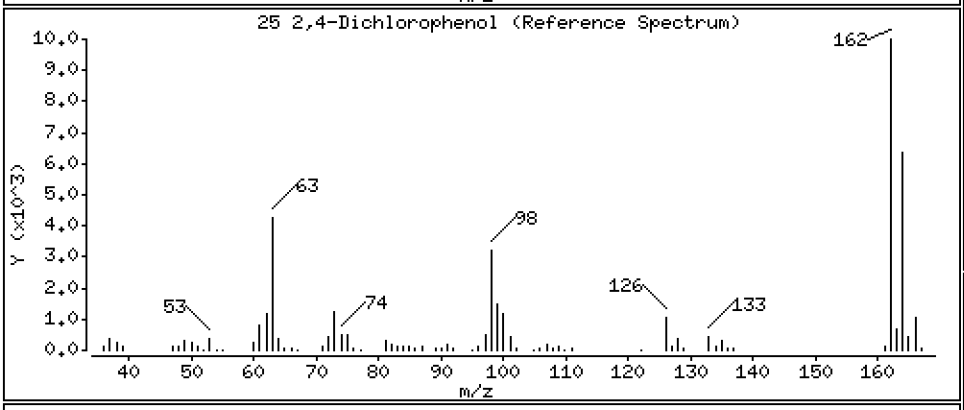
Concentration: 18.07 ug/mL

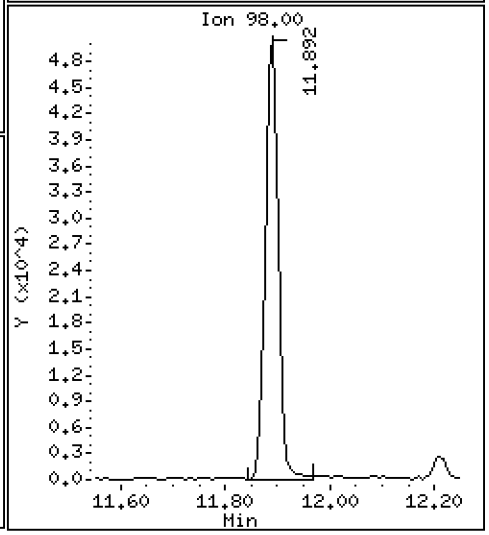


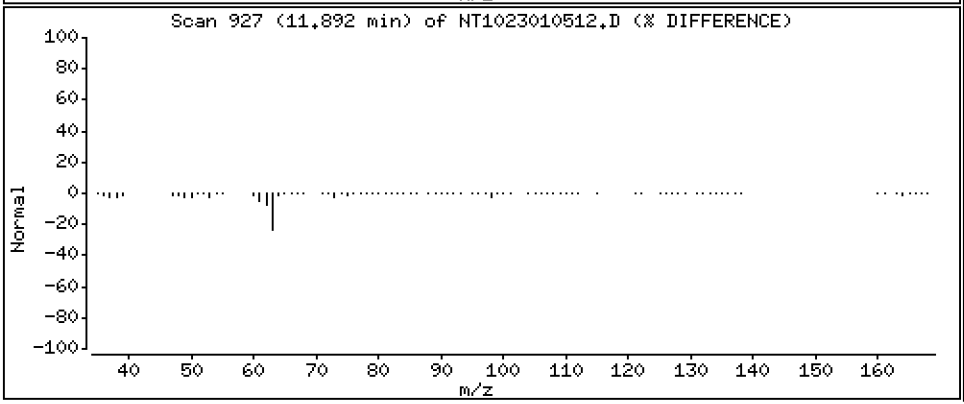












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

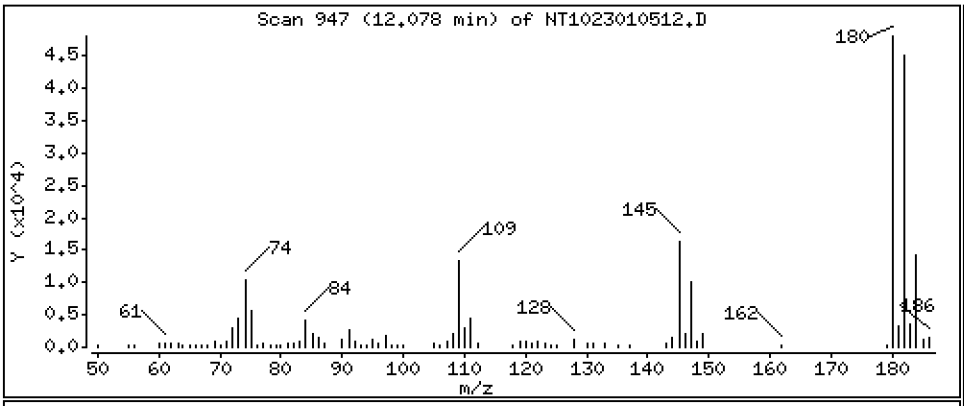
Operator: VTS

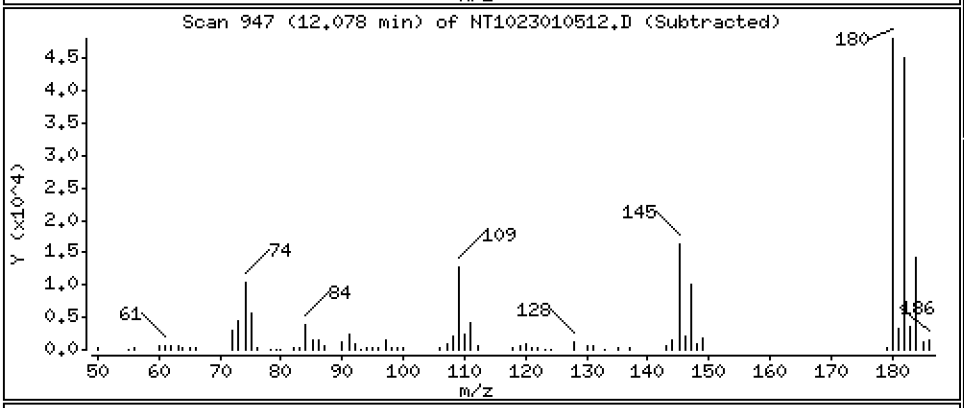
Column phase: ZB-5msi

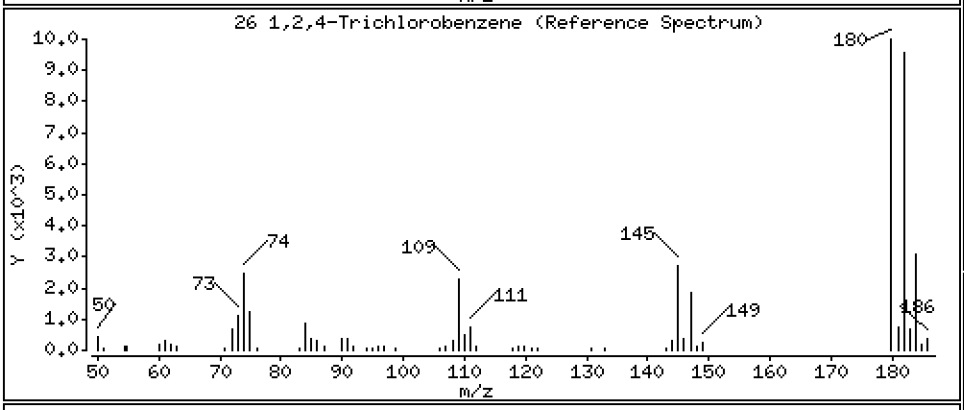
Column diameter: 0.25

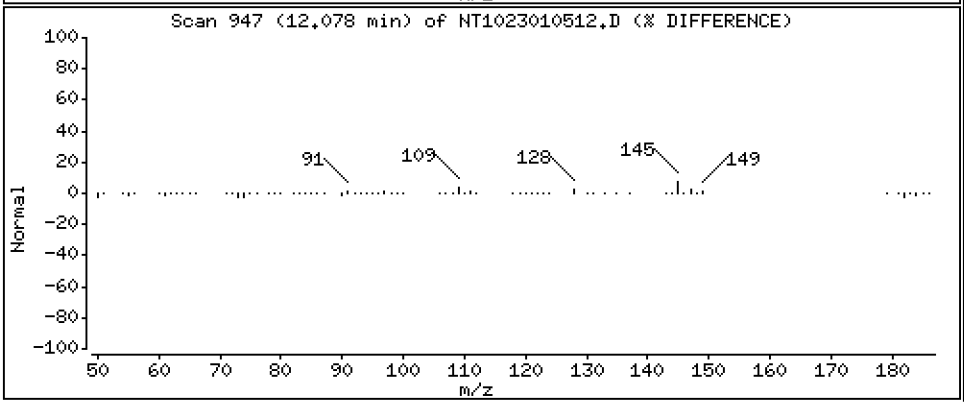
26 1,2,4-Trichlorobenzene

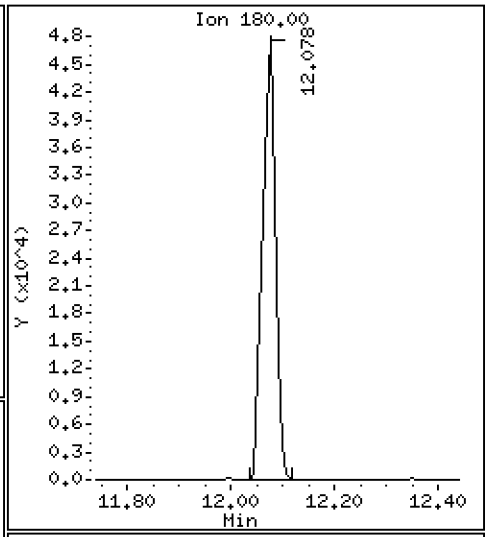
Concentration: 5.143 ug/mL

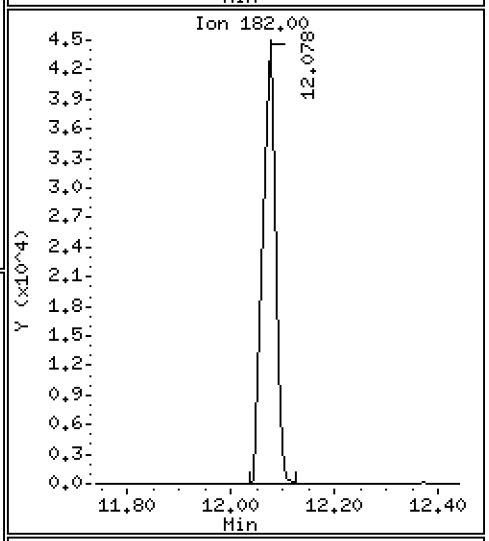


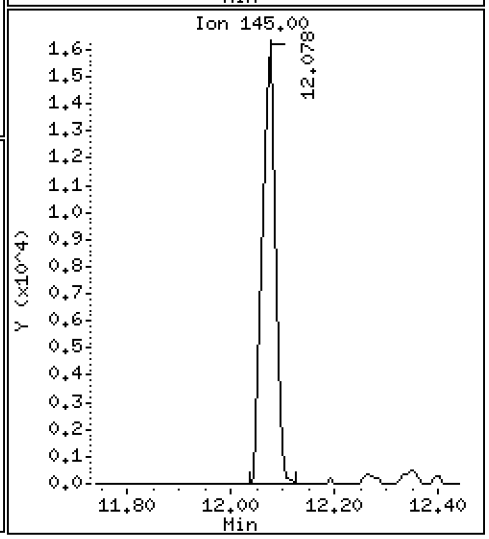












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

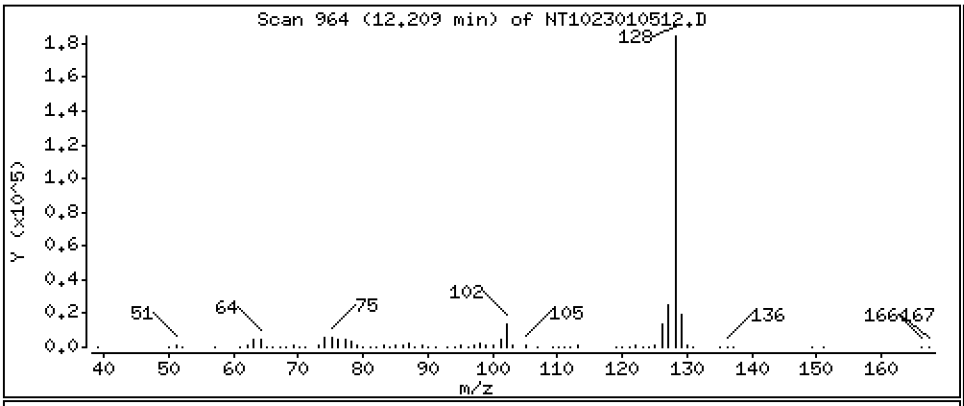
Operator: VTS

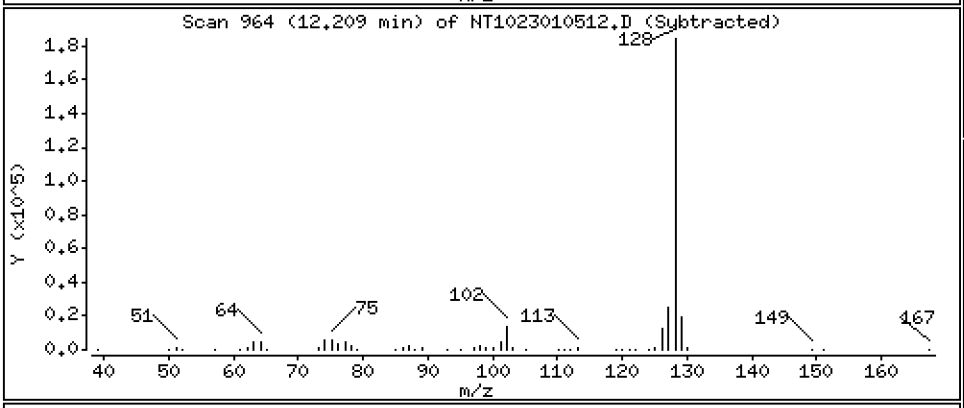
Column phase: ZB-5msi

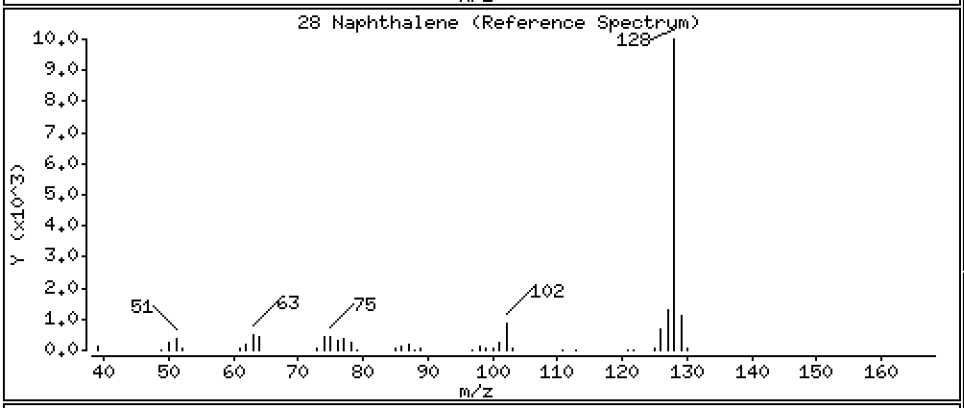
Column diameter: 0.25

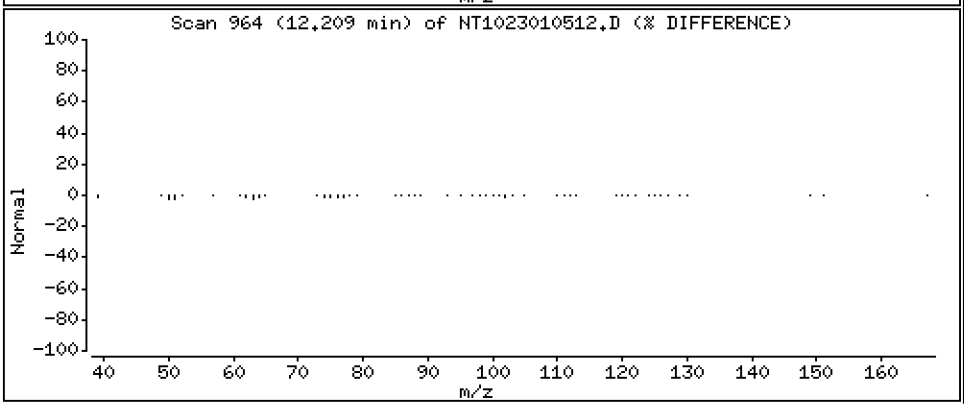
28 Naphthalene

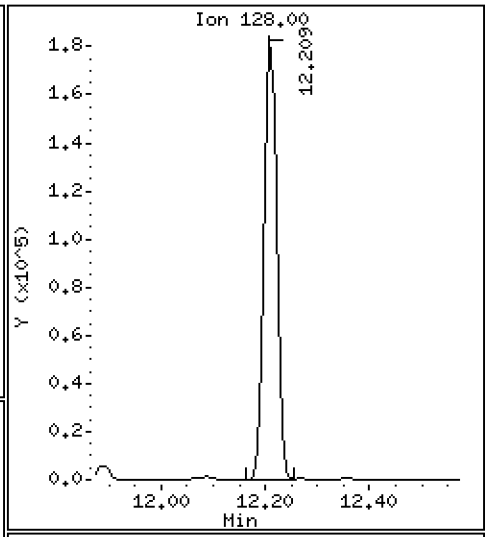
Concentration: 5.364 ug/mL

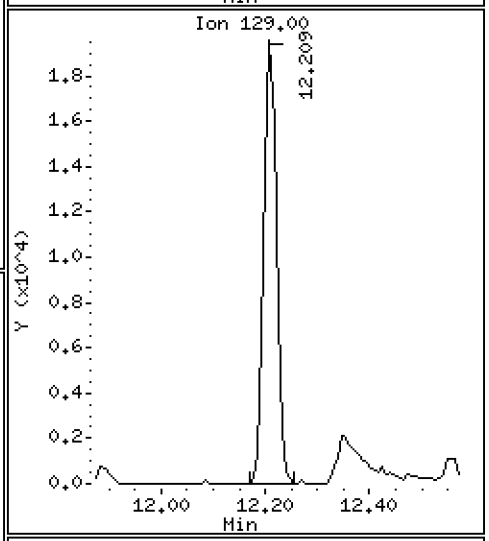


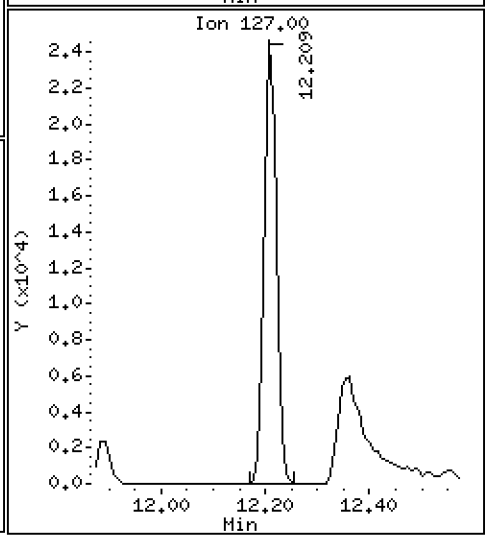












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

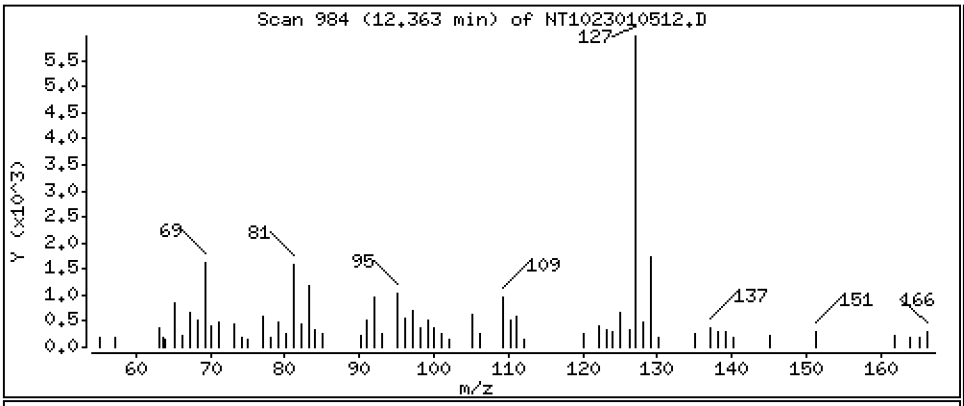
Operator: VTS

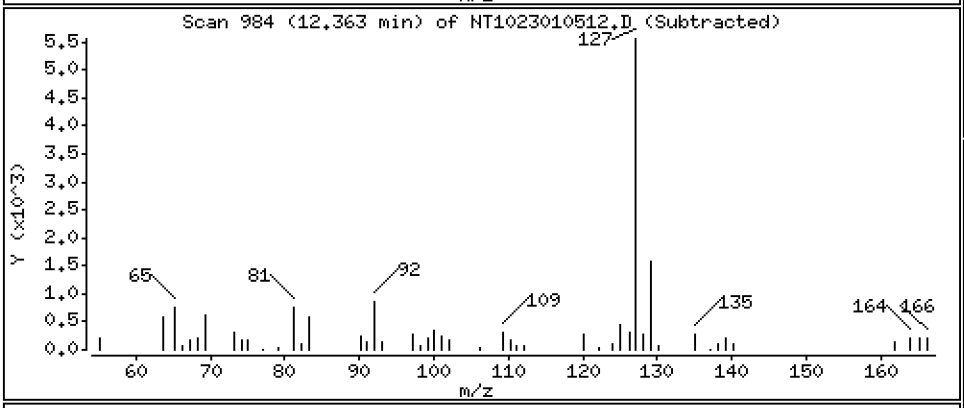
Column phase: ZB-5msi

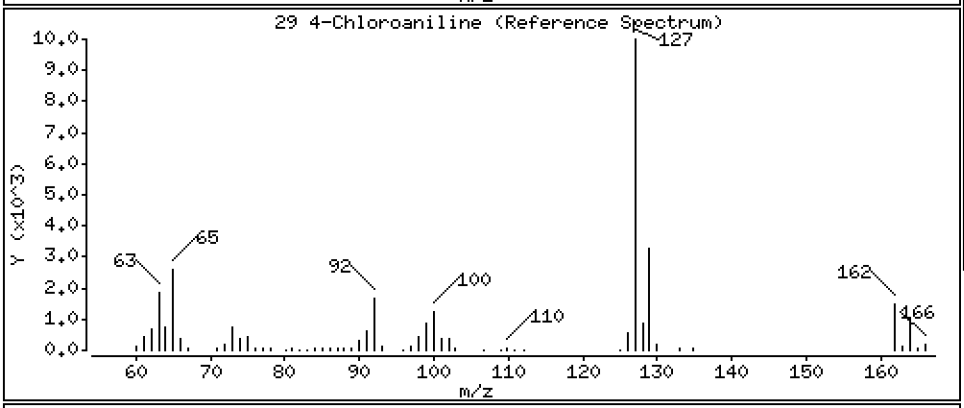
Column diameter: 0.25

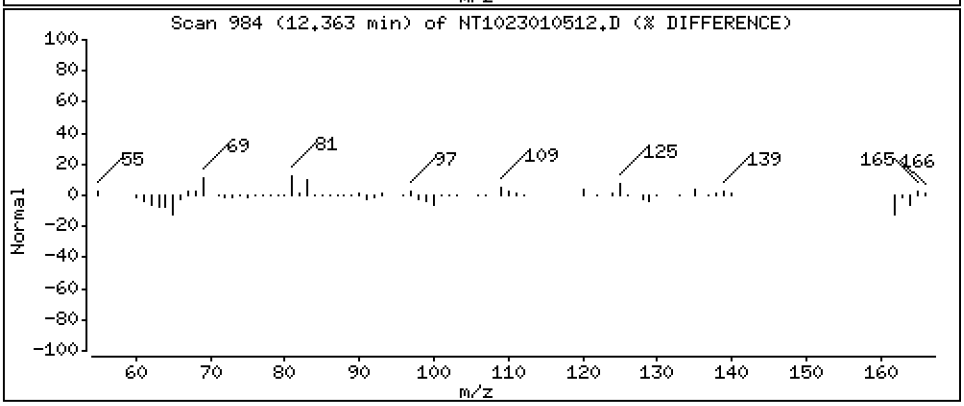
29 4-Chloroaniline

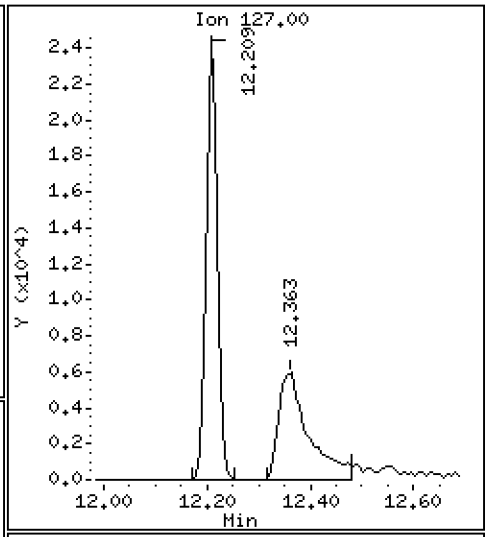
Concentration: 1.198 ug/mL

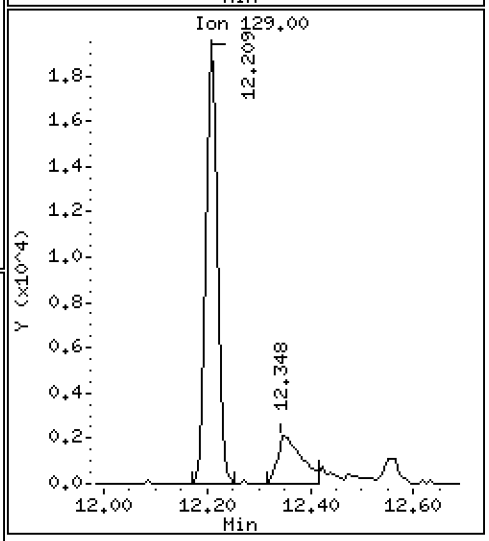












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

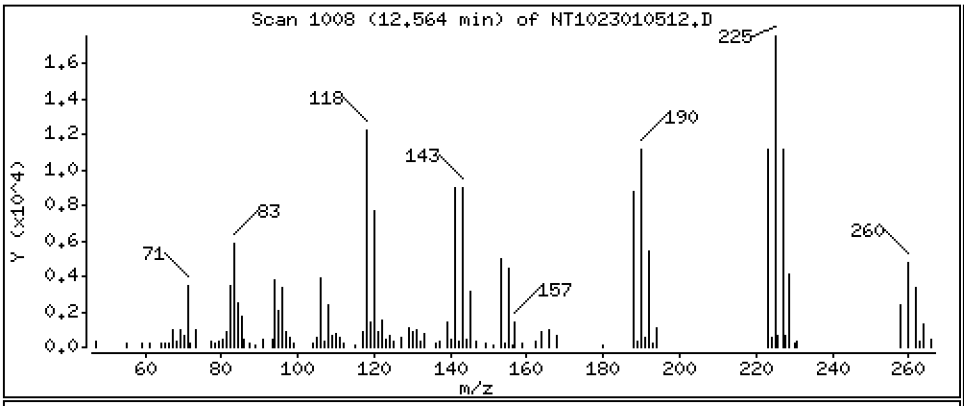
Operator: VTS

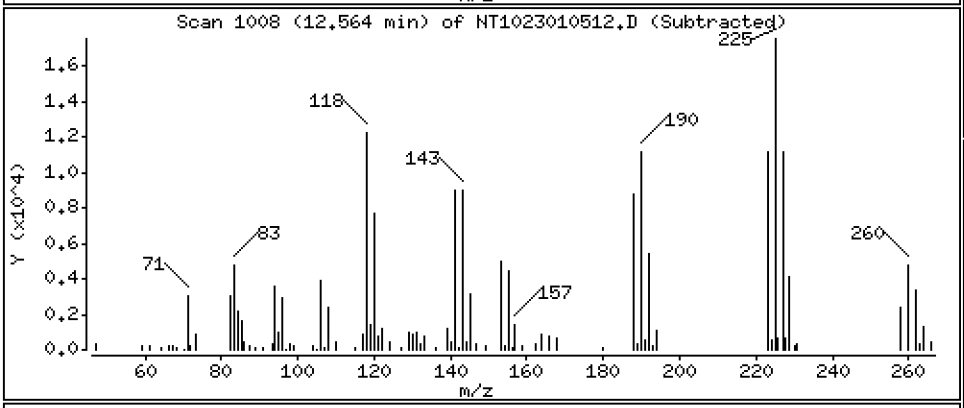
Column phase: ZB-5msi

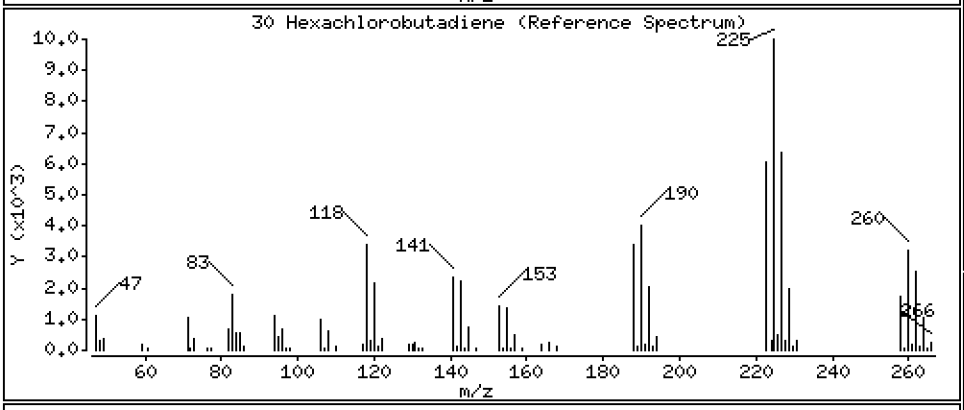
Column diameter: 0.25

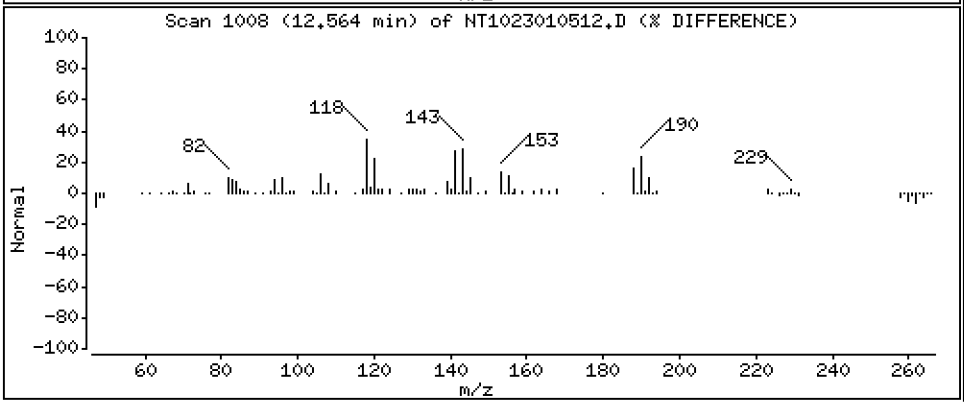
30 Hexachlorobutadiene

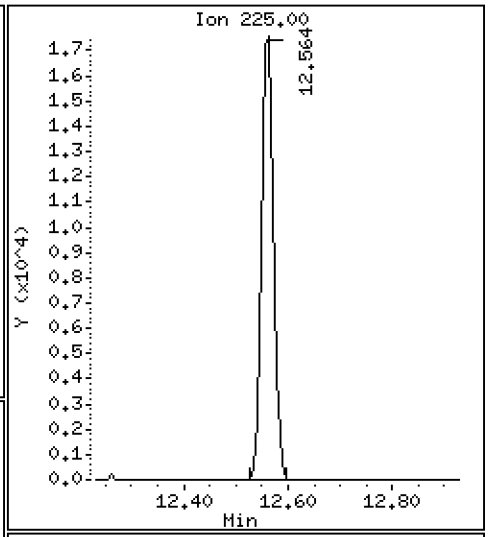
Concentration: 4.927 ug/mL

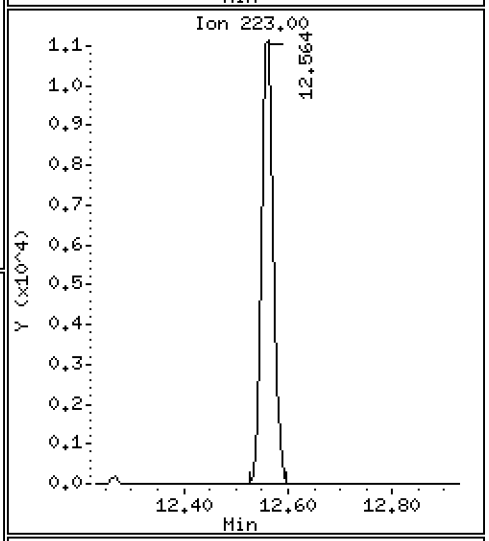


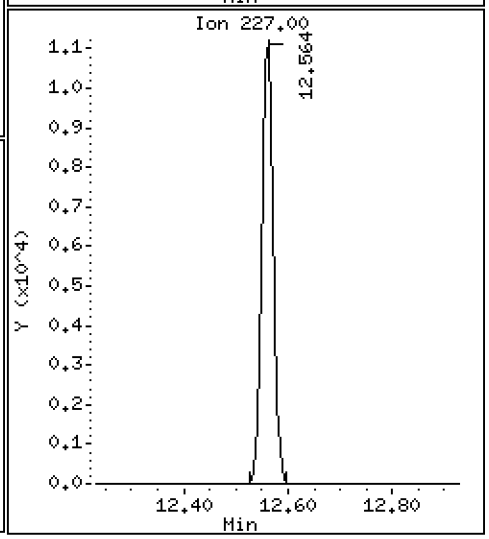












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

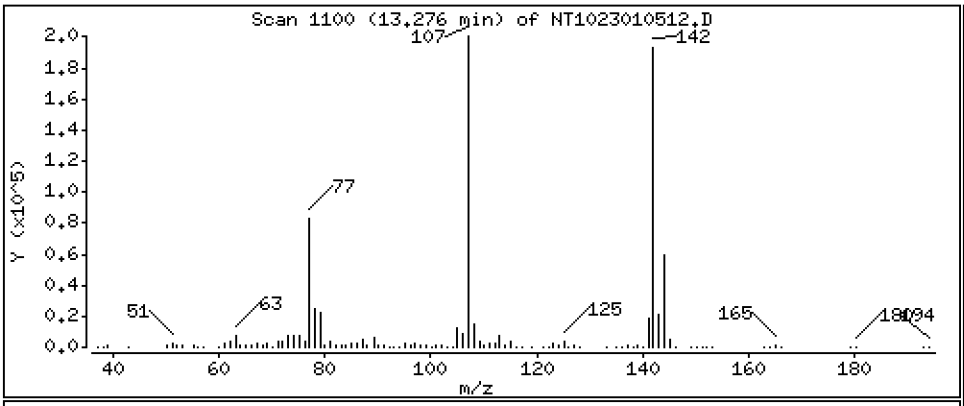
Operator: VTS

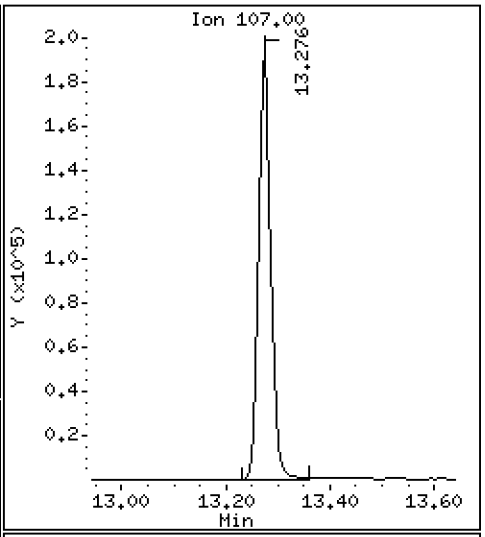
Column phase: ZB-5msi

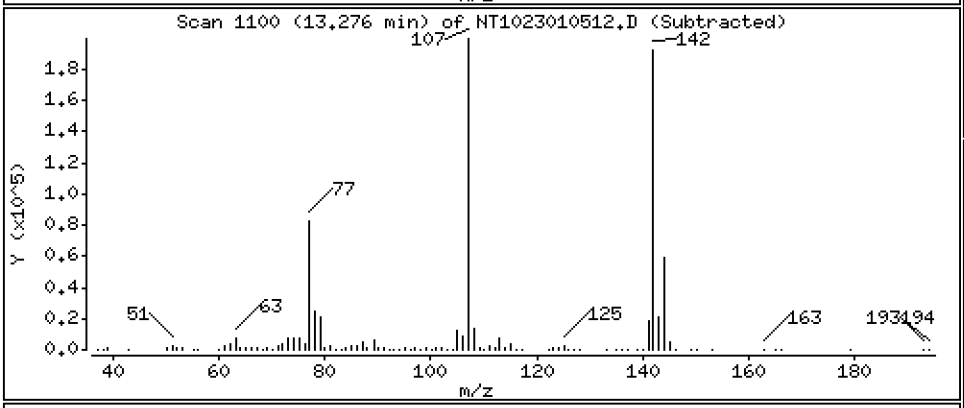
Column diameter: 0.25

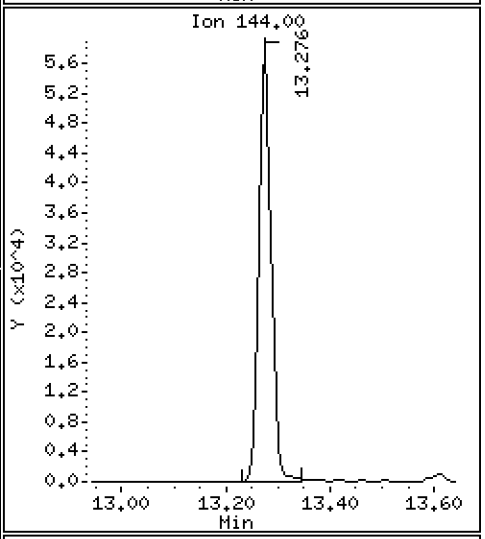
31 4-Chloro-3-methylphenol

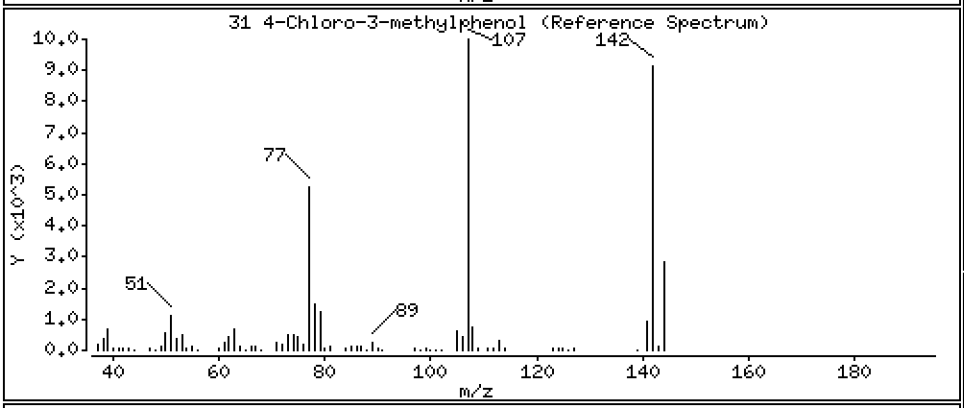
Concentration: 18.02 ug/mL

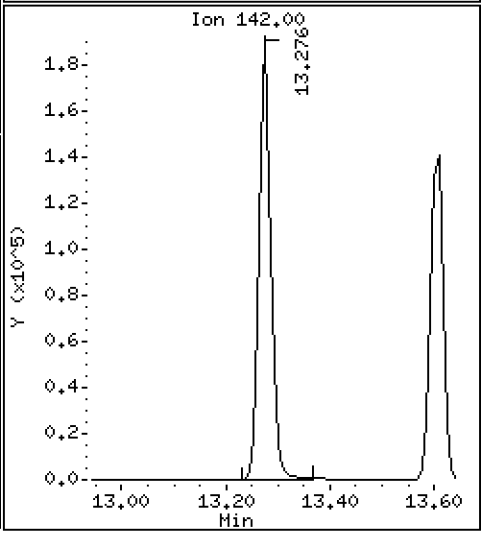


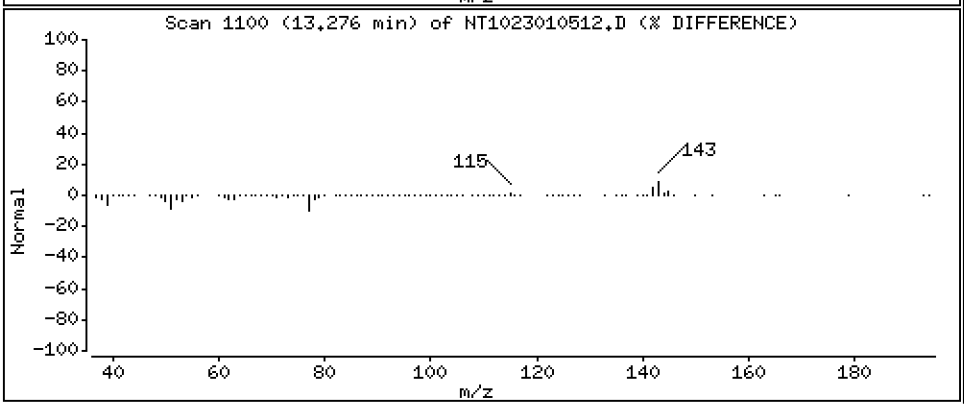












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

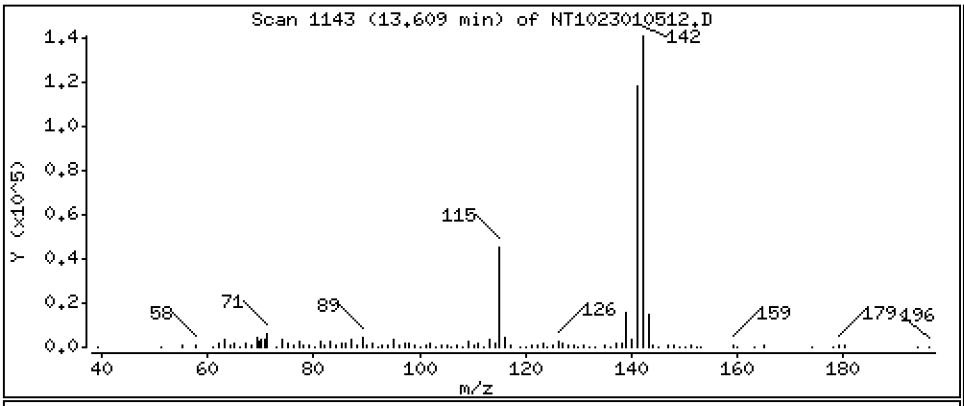
Operator: VTS

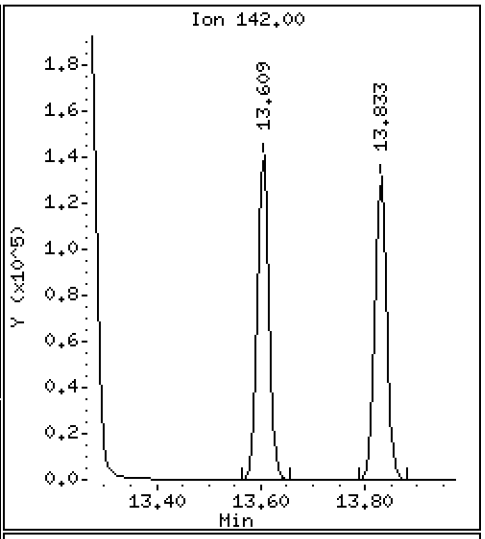
Column phase: ZB-5msi

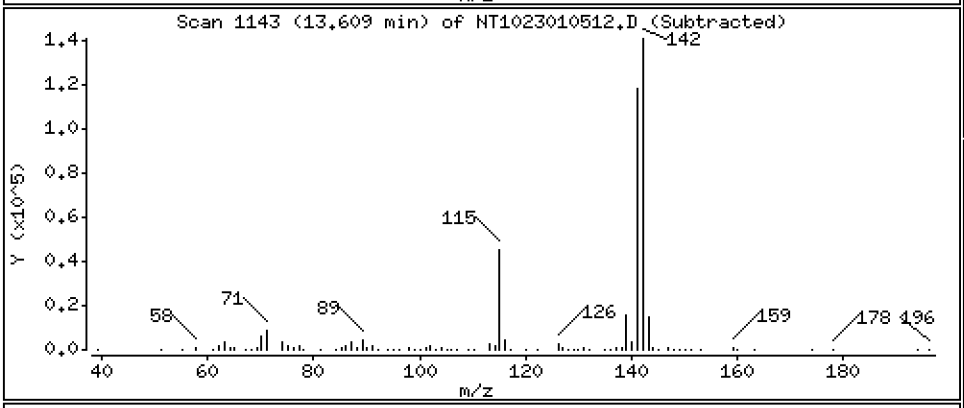
Column diameter: 0.25

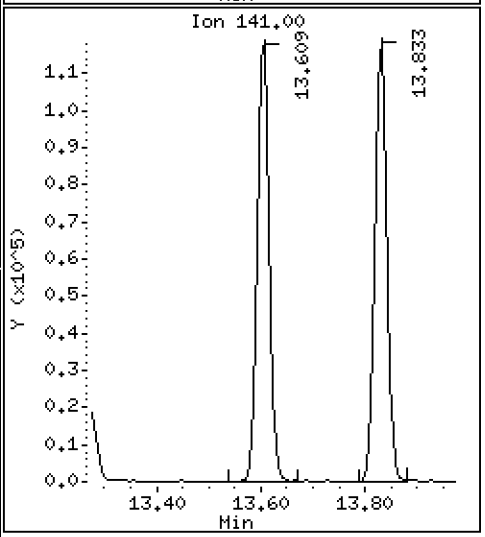
32 2-Methylnaphthalene

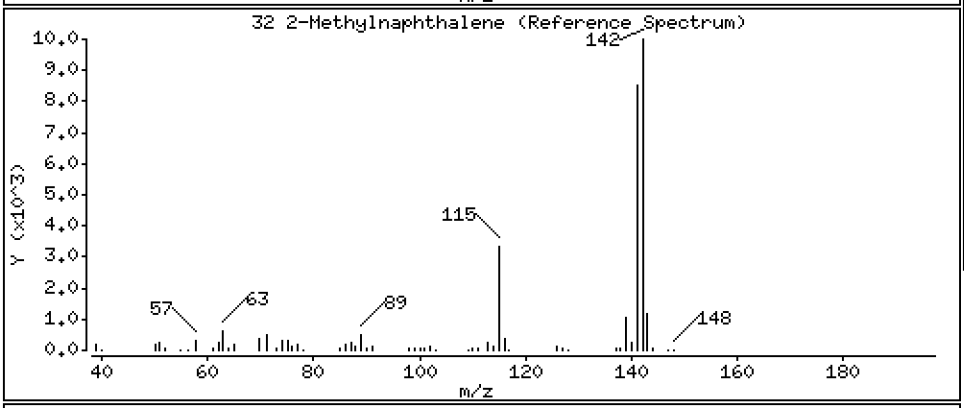
Concentration: 5.284 ug/mL

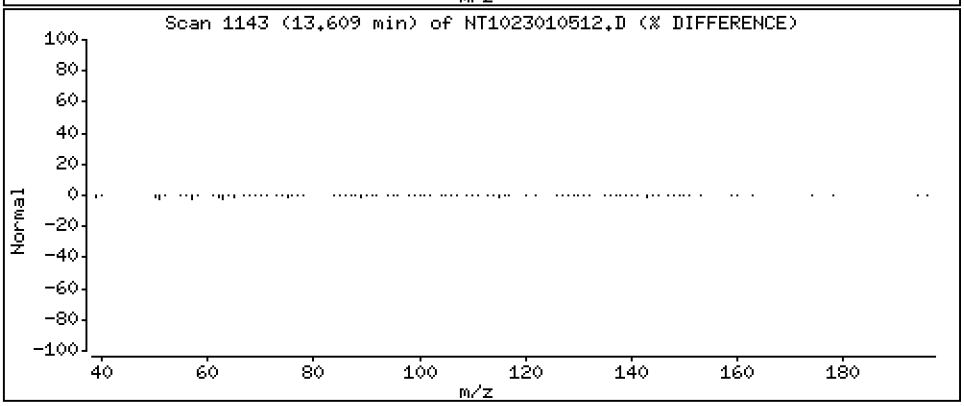












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

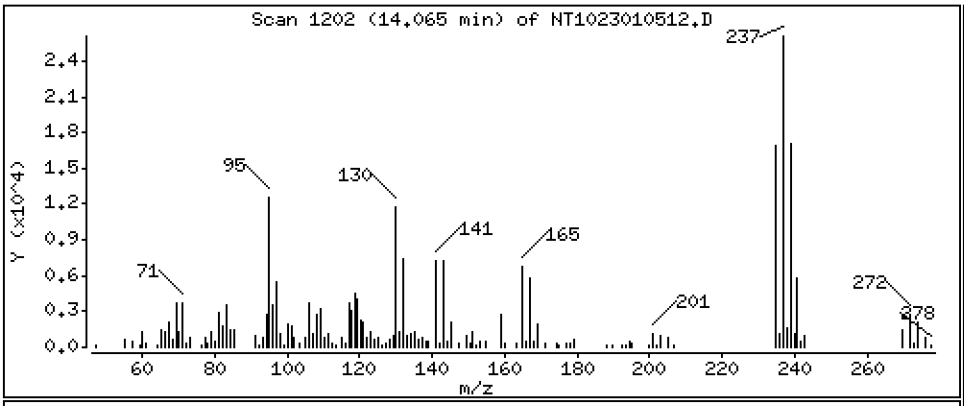
Operator: VTS

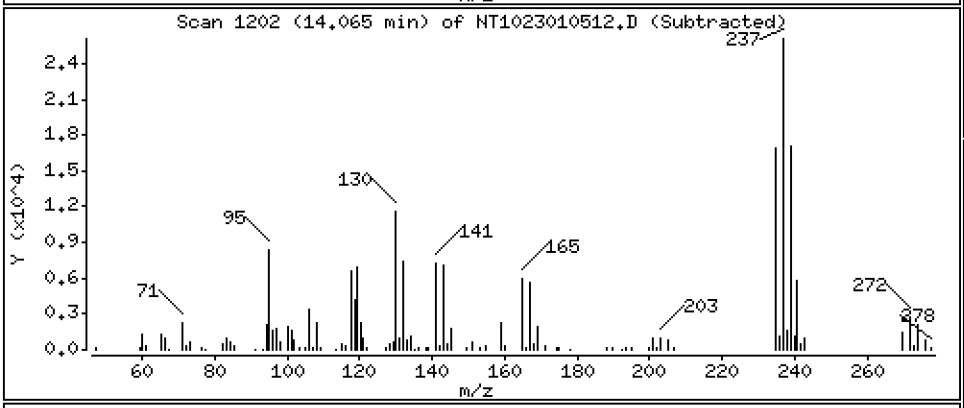
Column phase: ZB-5msi

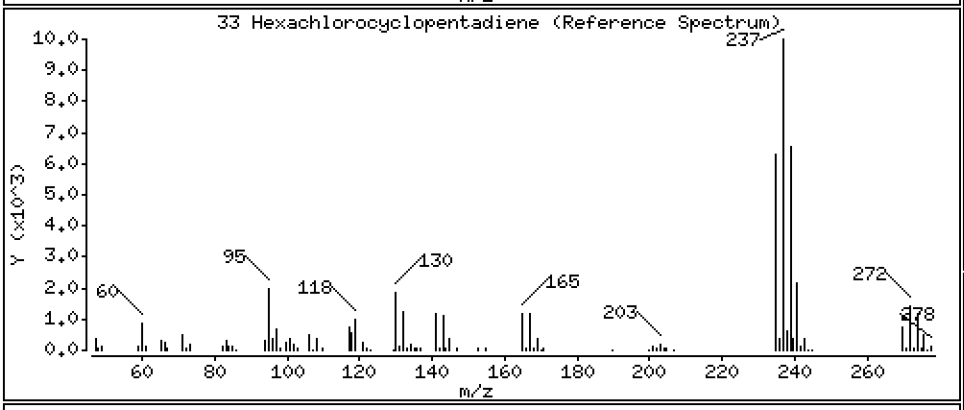
Column diameter: 0.25

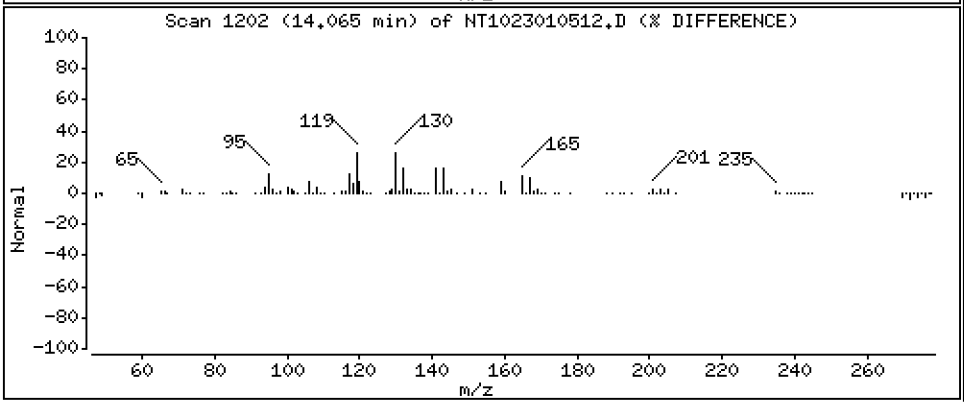
33 Hexachlorocyclopentadiene

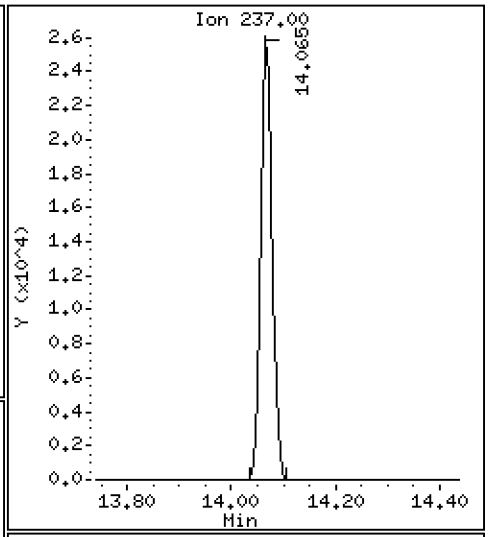
Concentration: 6.929 ug/mL

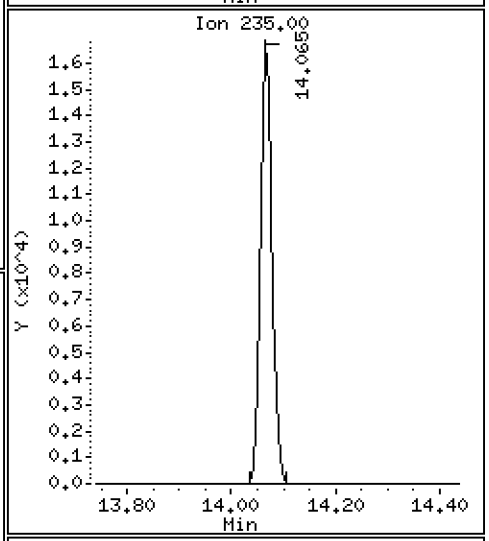


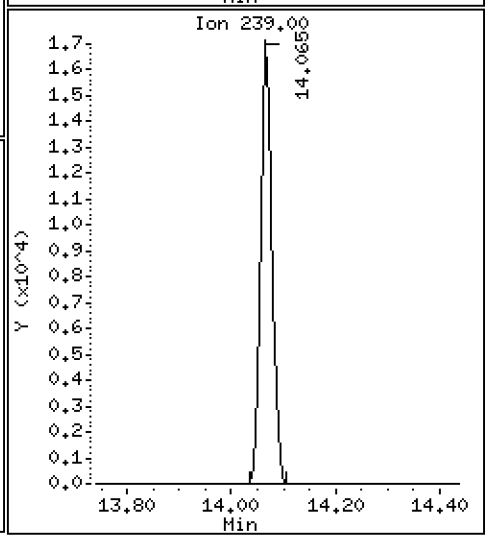












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

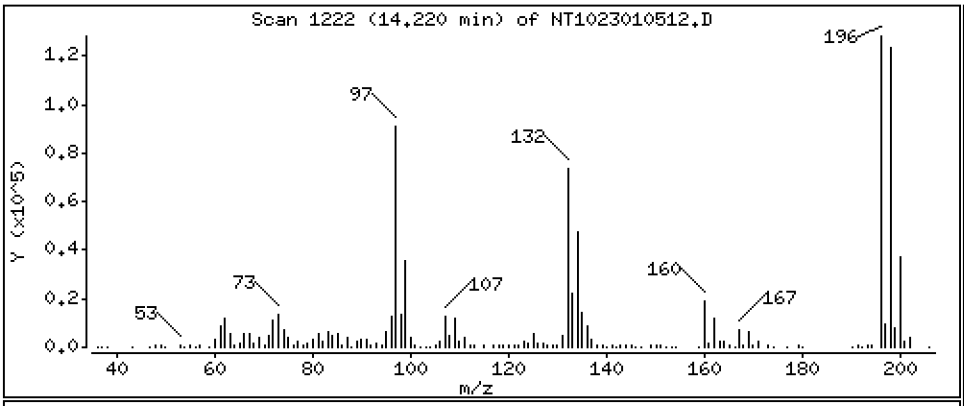
Operator: VTS

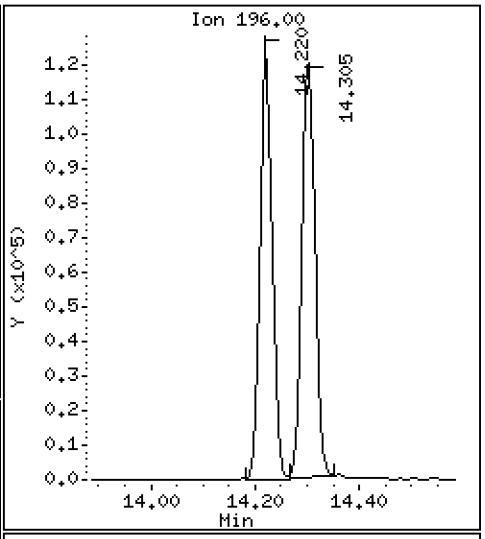
Column phase: ZB-5msi

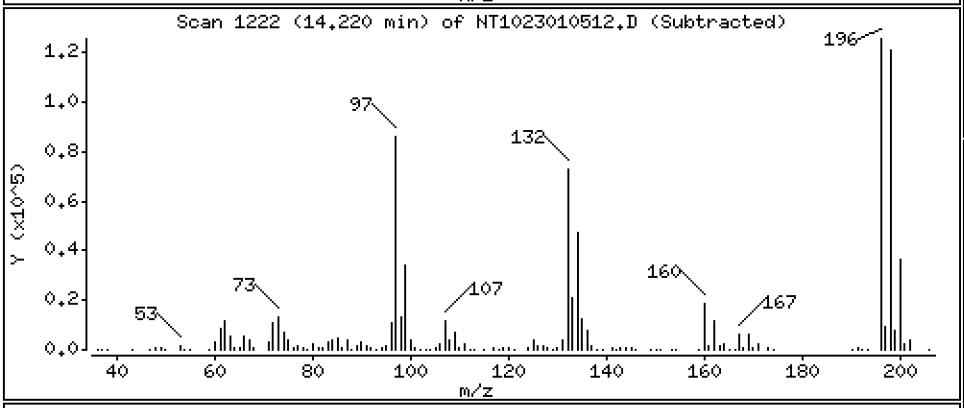
Column diameter: 0.25

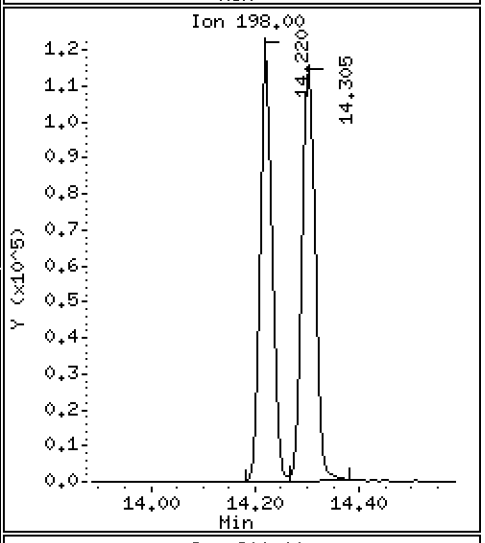
34 2,4,6-Trichlorophenol

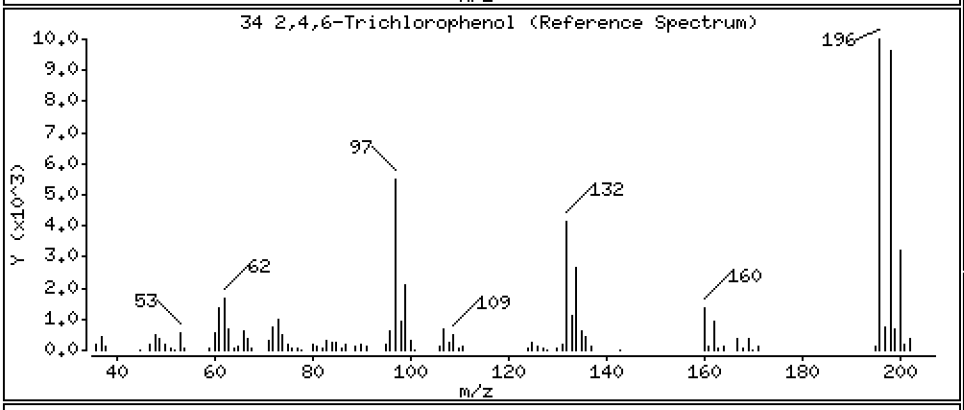
Concentration: 20.69 ug/mL

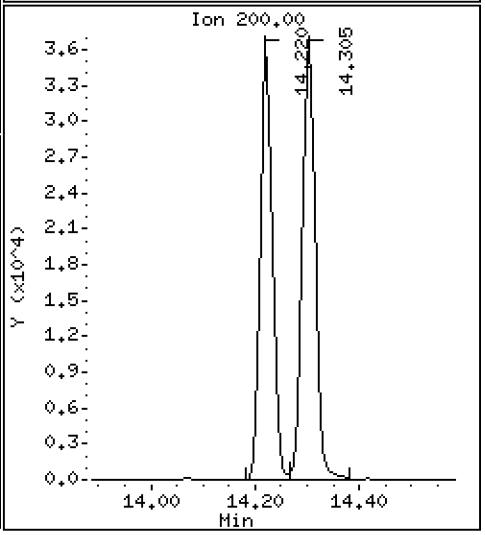


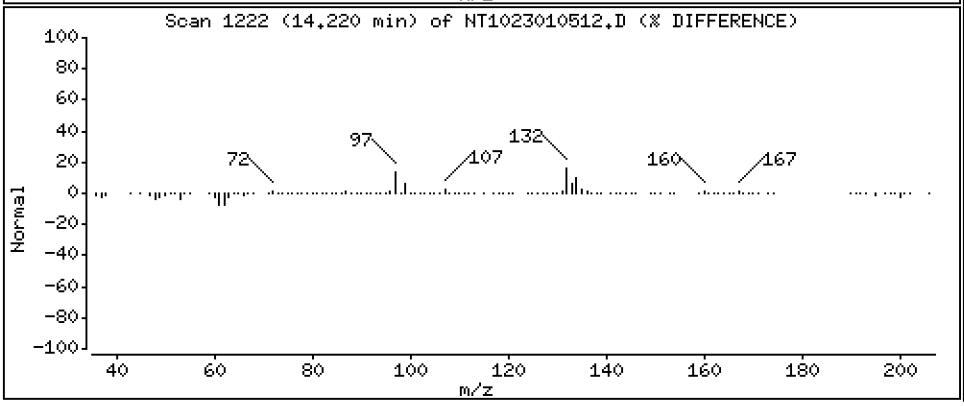












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

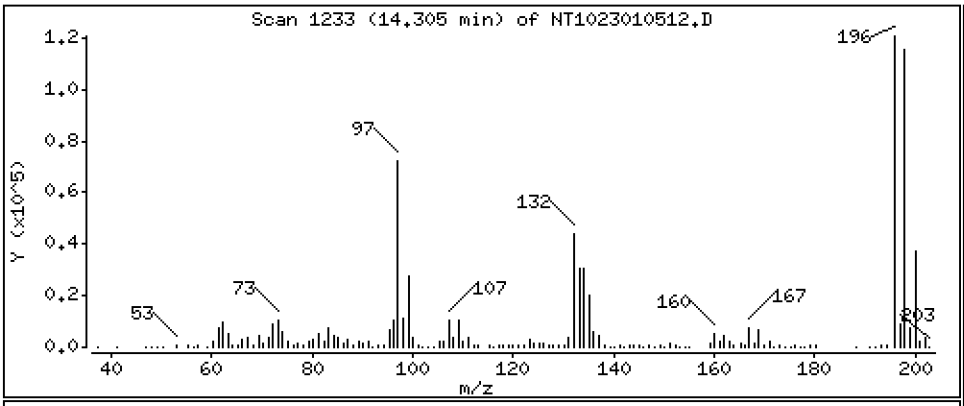
Operator: VTS

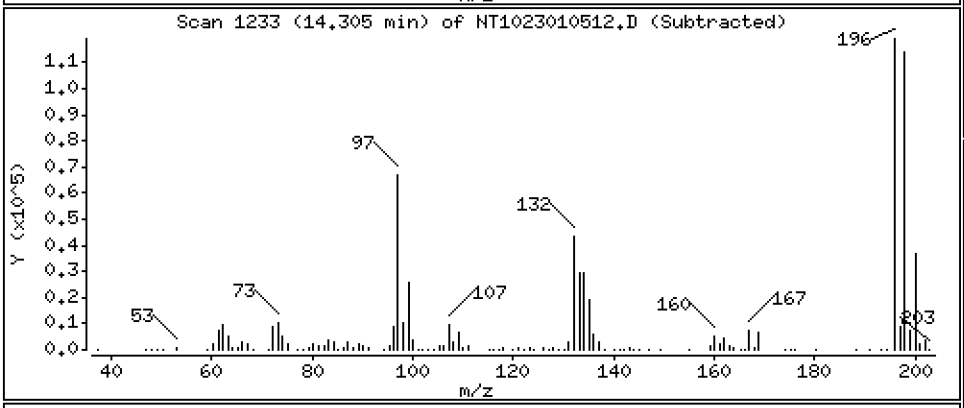
Column phase: ZB-5msi

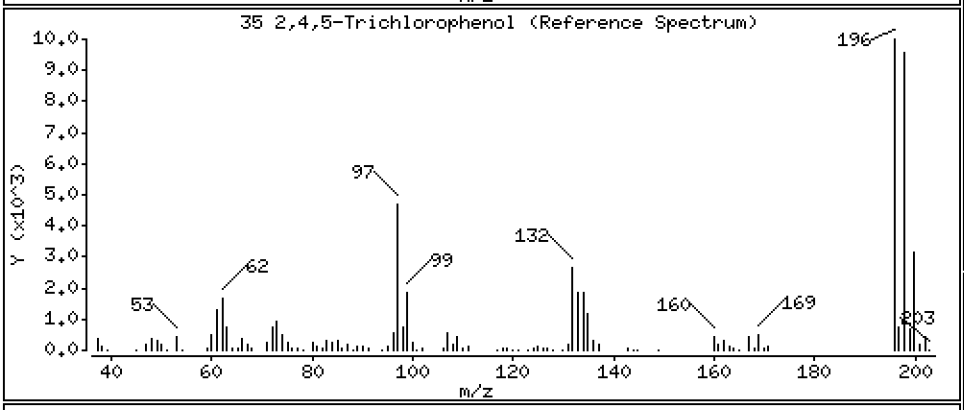
Column diameter: 0.25

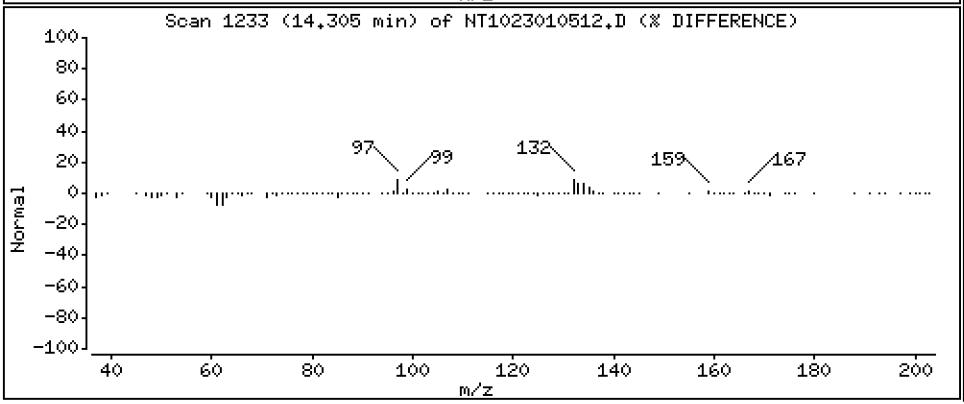
35 2,4,5-Trichlorophenol

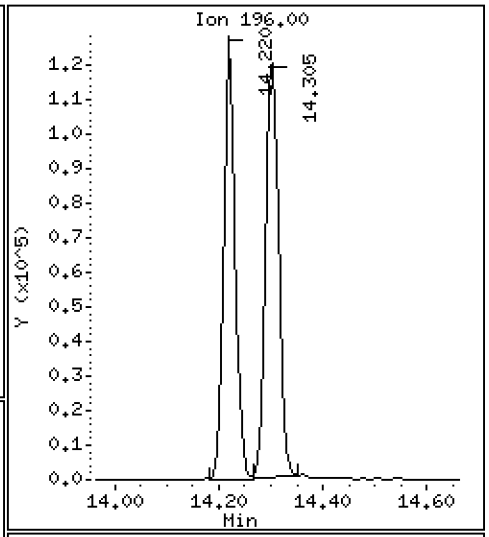
Concentration: 19.58 ug/mL

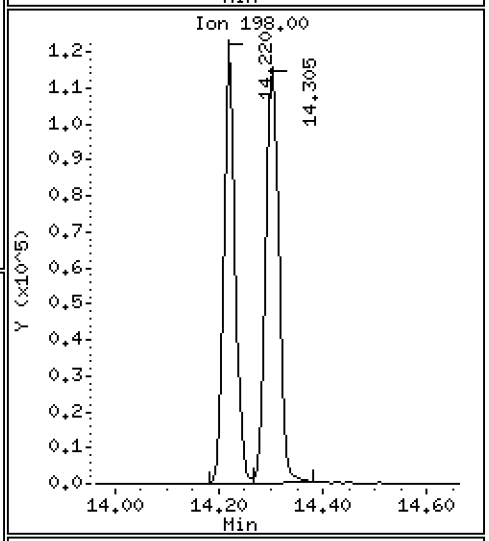


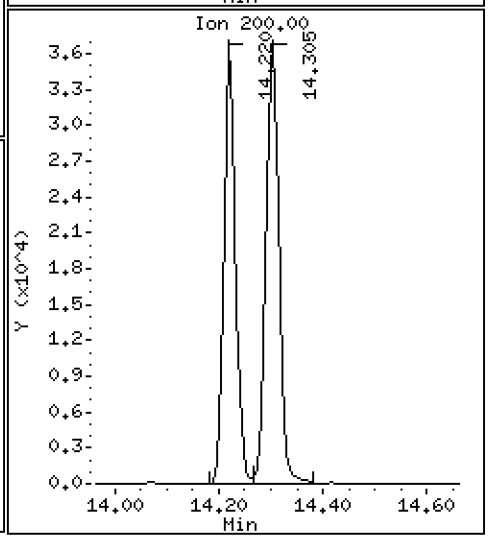












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

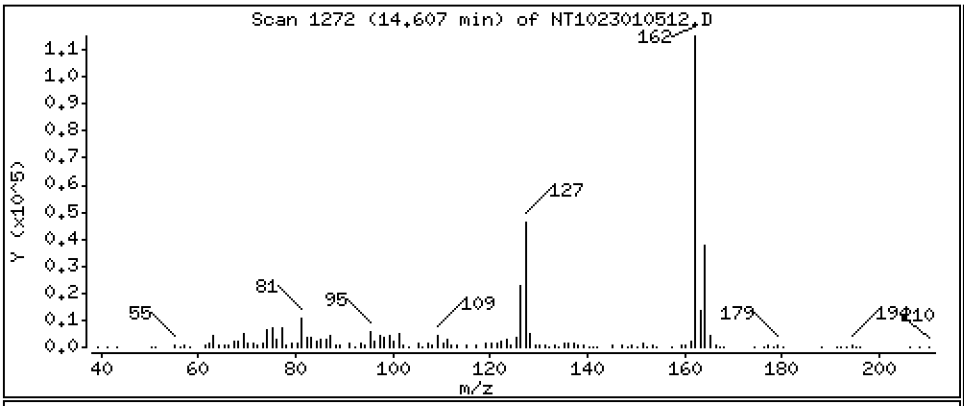
Operator: VTS

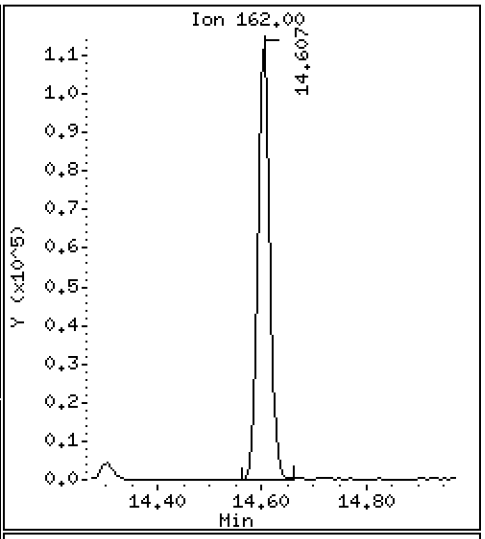
Column phase: ZB-5msi

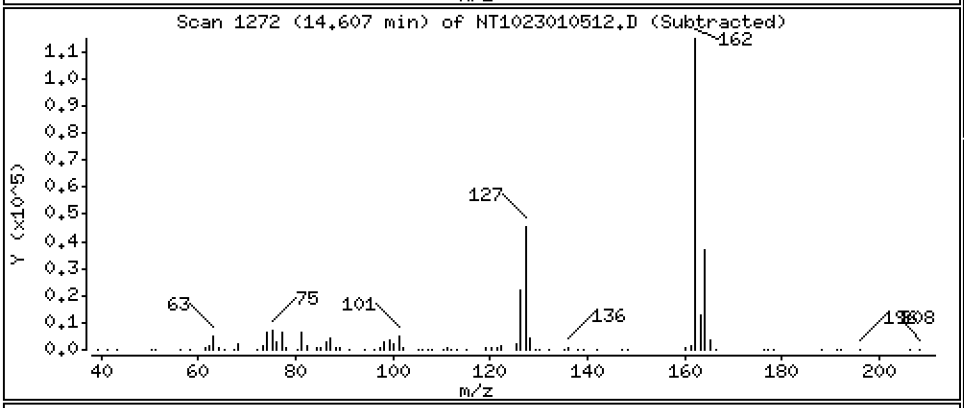
Column diameter: 0.25

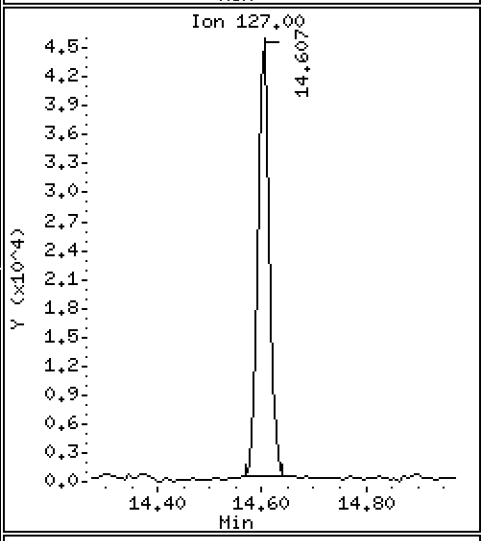
37 2-Chloronaphthalene

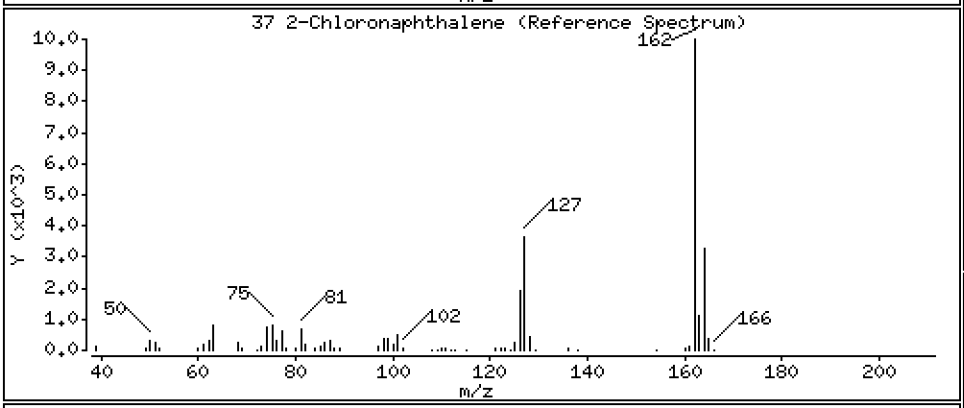
Concentration: 5.349 ug/mL

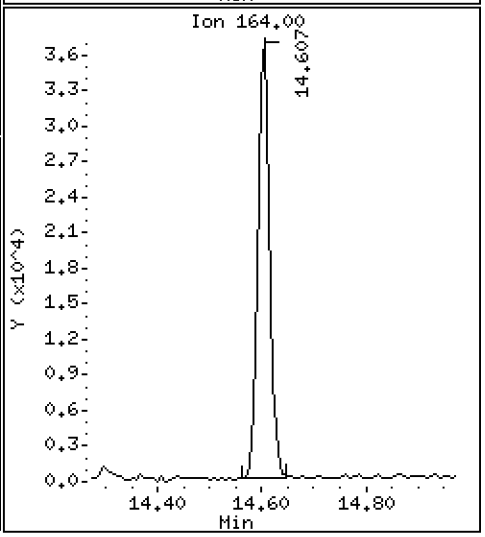


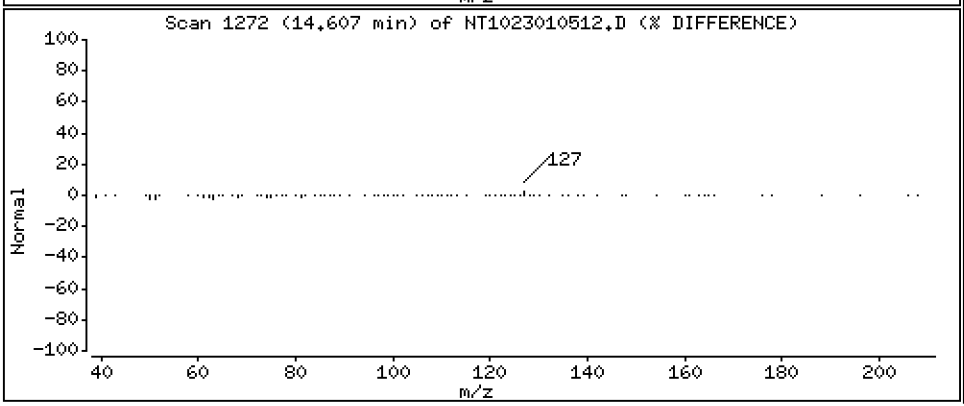












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

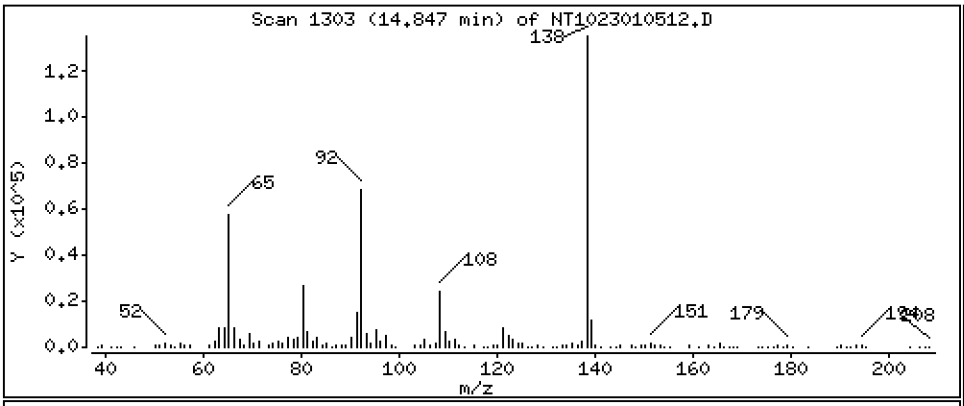
Operator: VTS

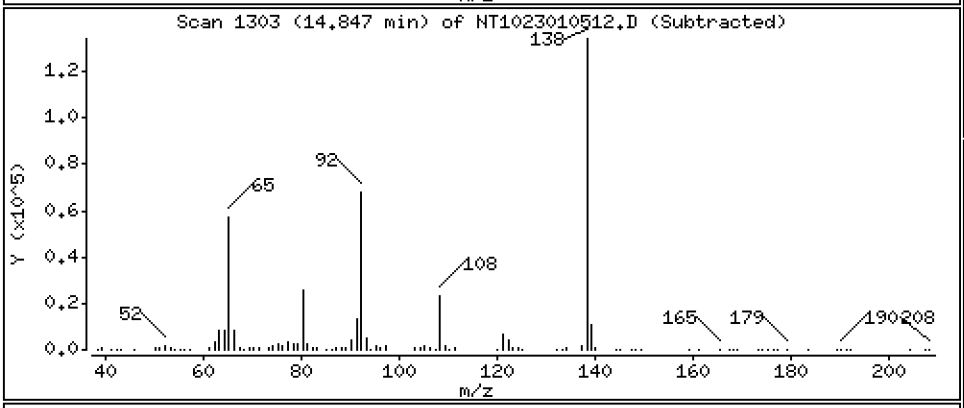
Column phase: ZB-5msi

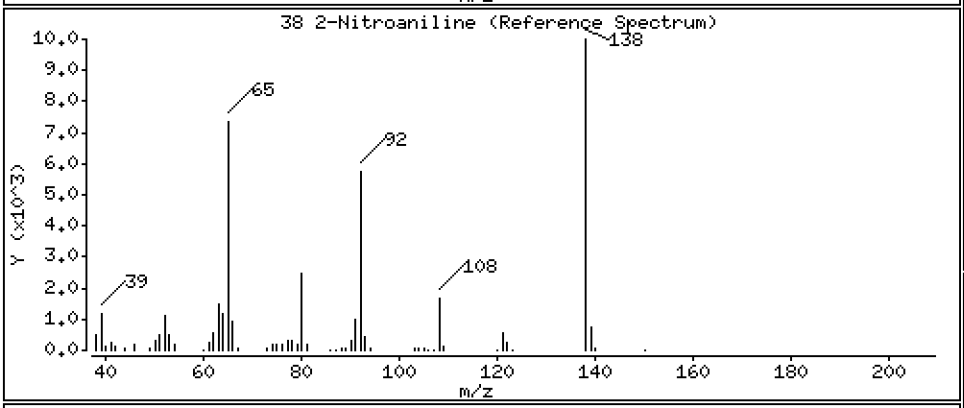
Column diameter: 0.25

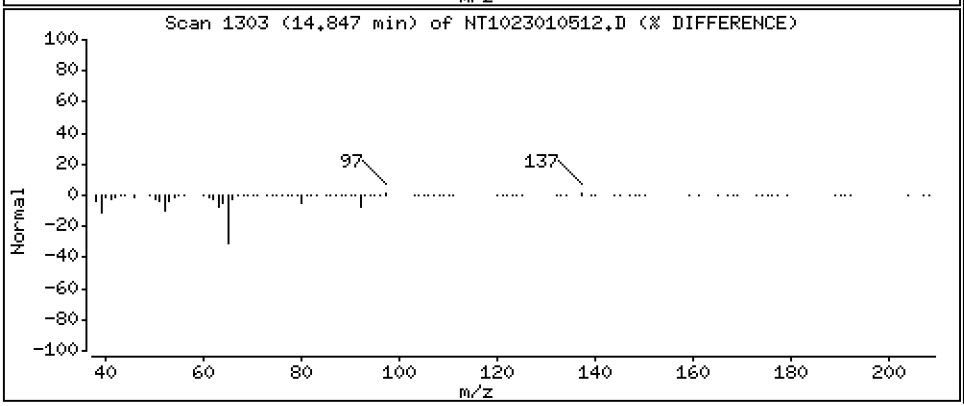
38 2-Nitroaniline

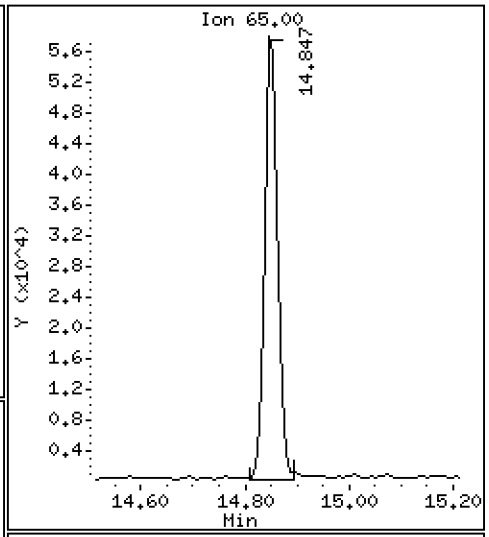
Concentration: 19.33 ug/mL

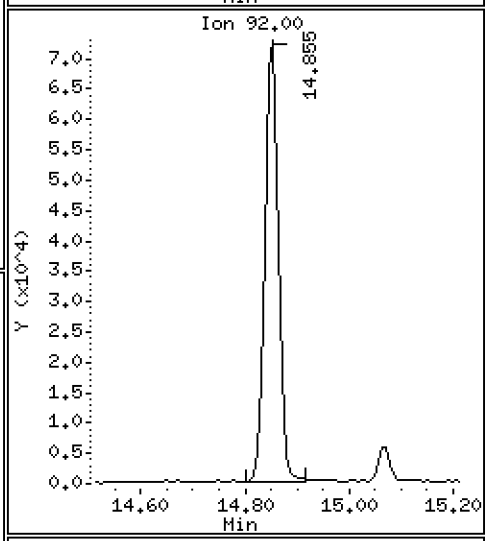


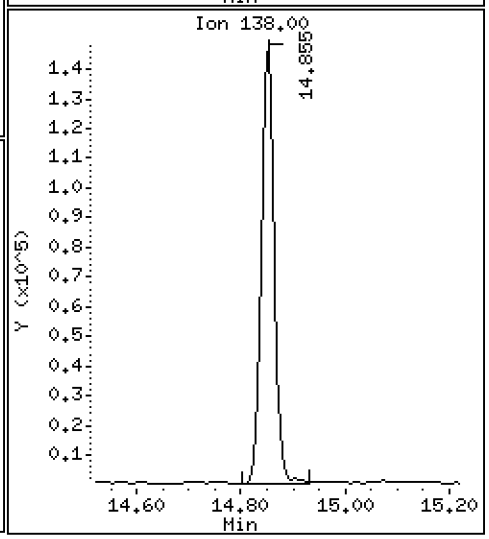












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

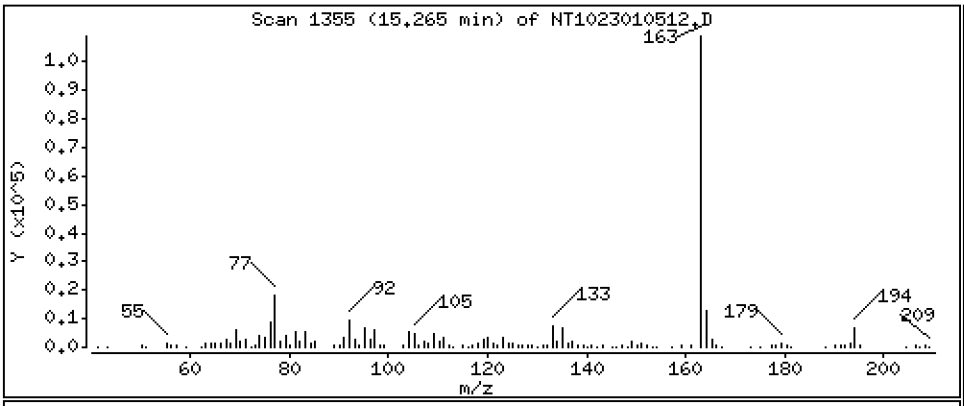
Operator: VTS

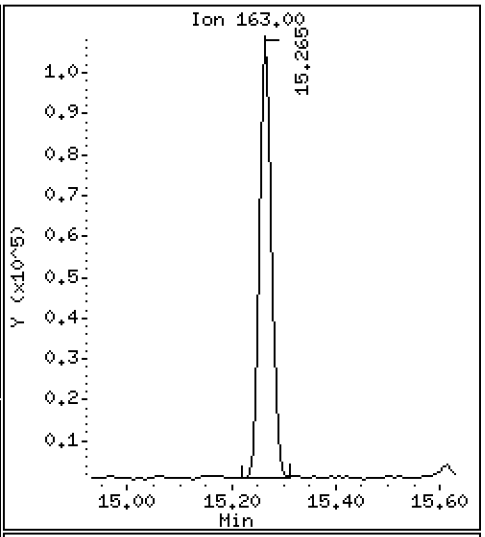
Column phase: ZB-5msi

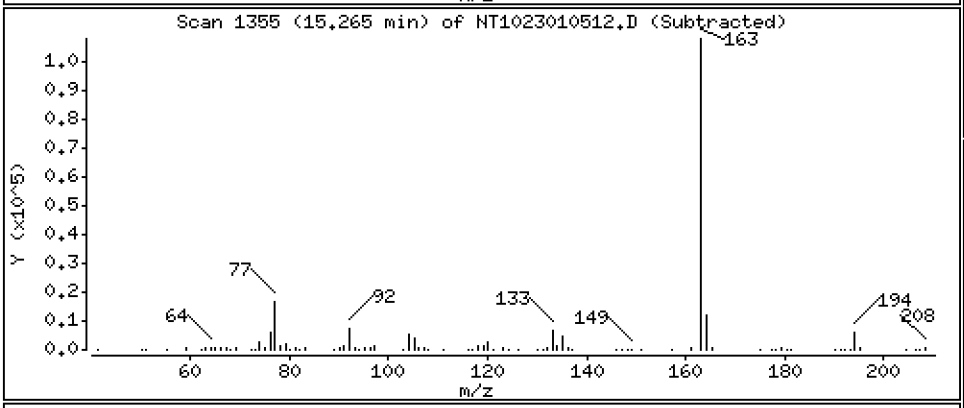
Column diameter: 0.25

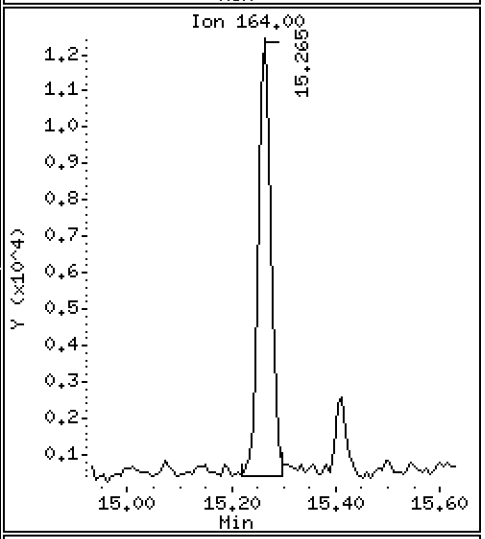
39 Dimethylphthalate

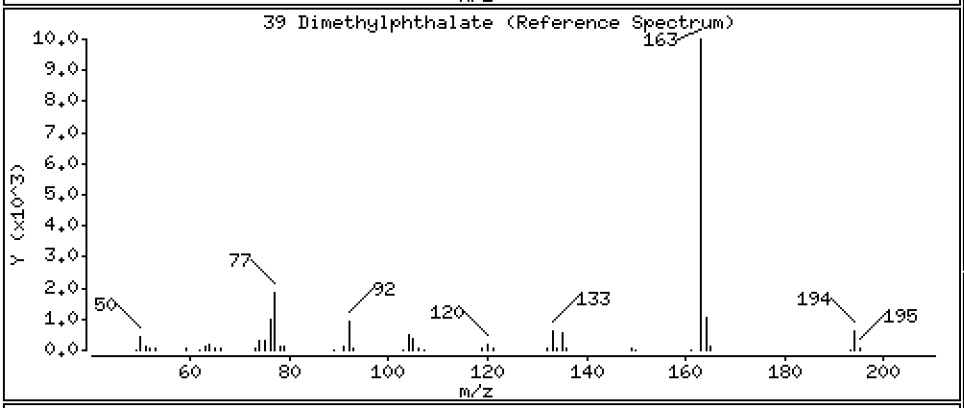
Concentration: 5.559 ug/mL

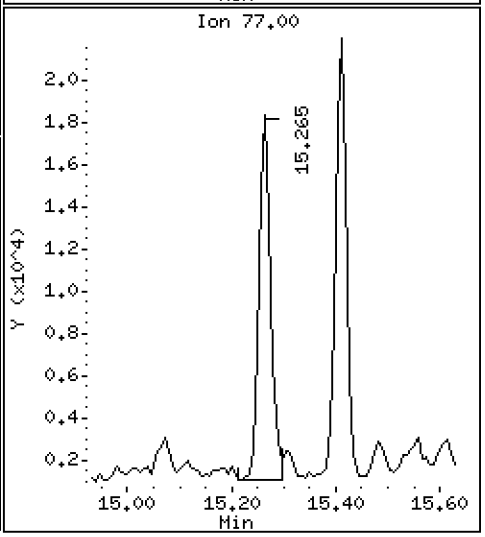


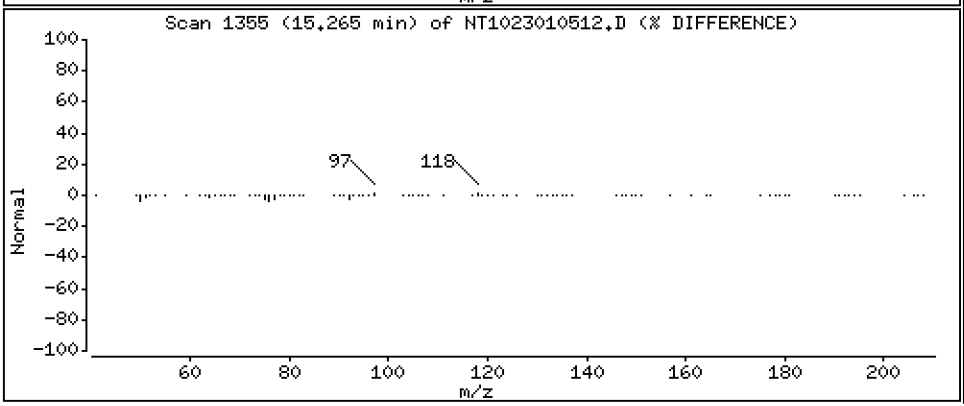












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

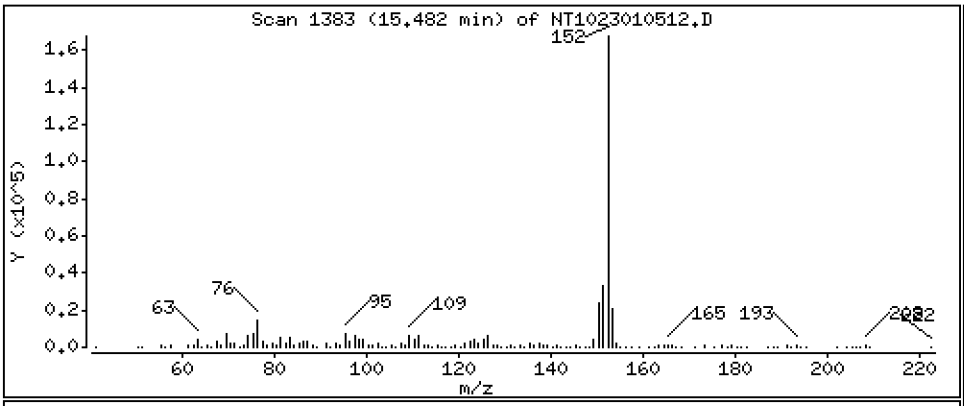
Operator: VTS

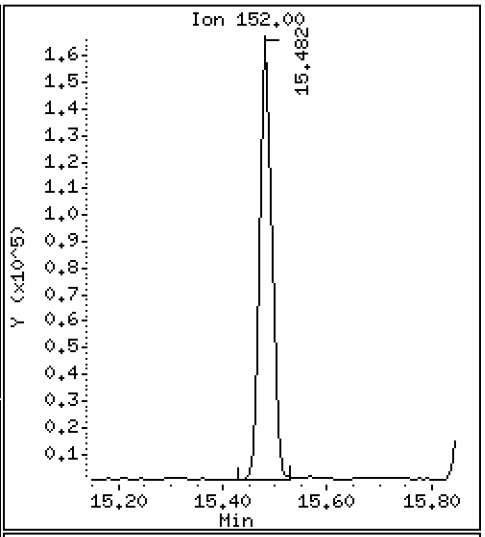
Column phase: ZB-5msi

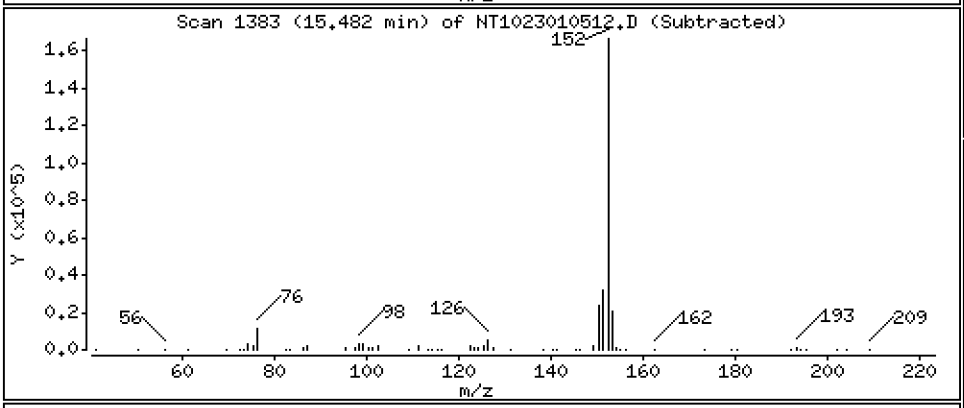
Column diameter: 0.25

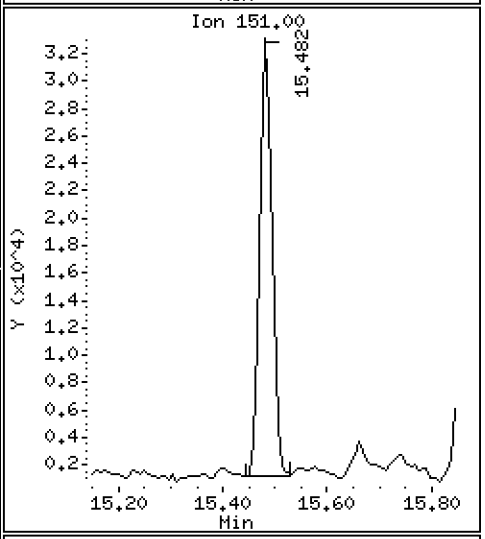
40 Acenaphthylene

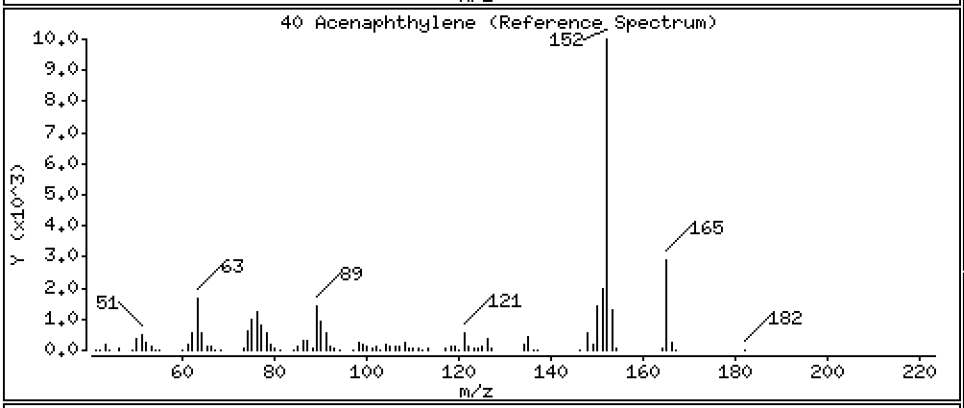
Concentration: 5.261 ug/mL

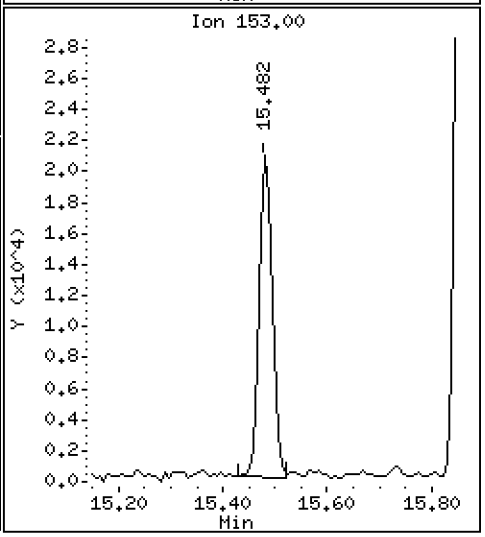


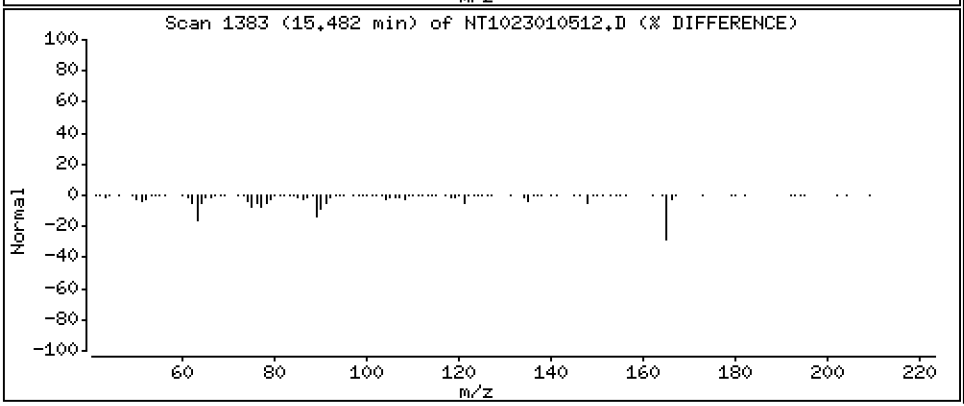












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

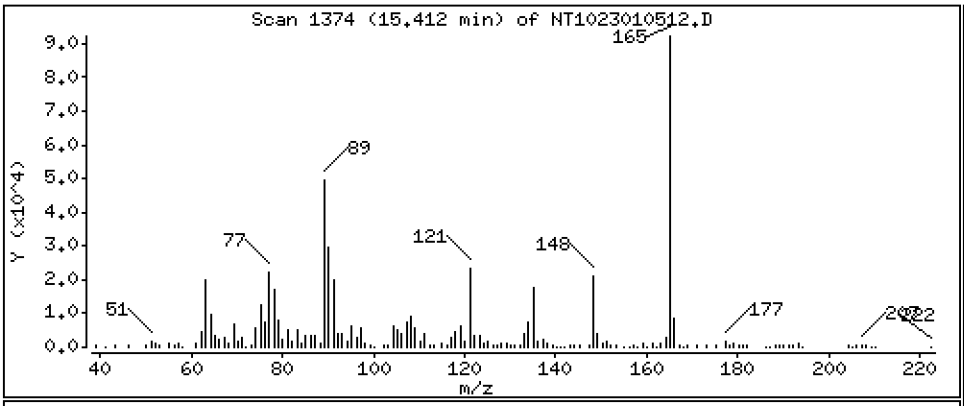
Operator: VTS

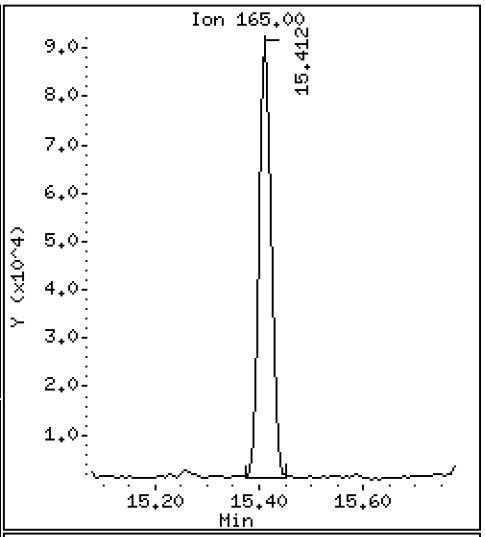
Column phase: ZB-5msi

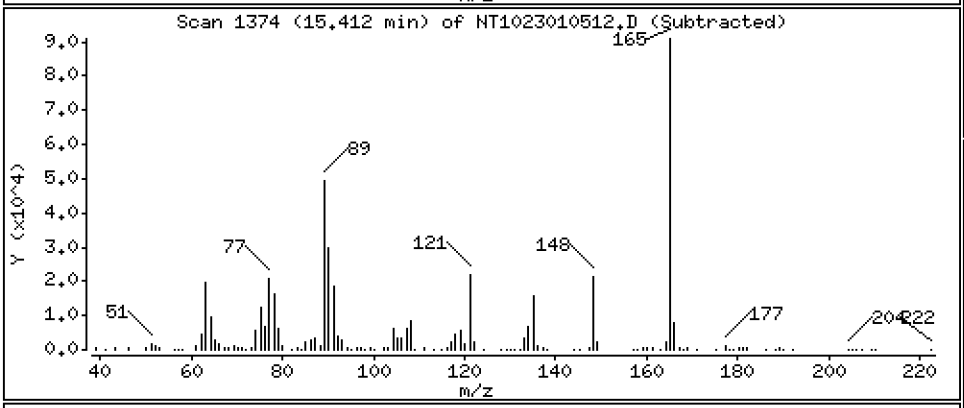
Column diameter: 0.25

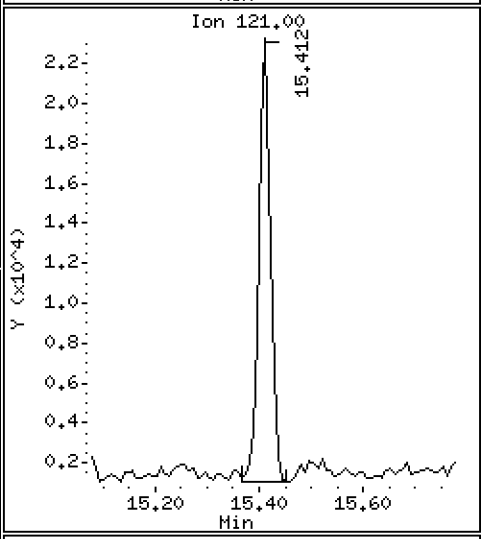
41 2,6-Dinitrotoluene

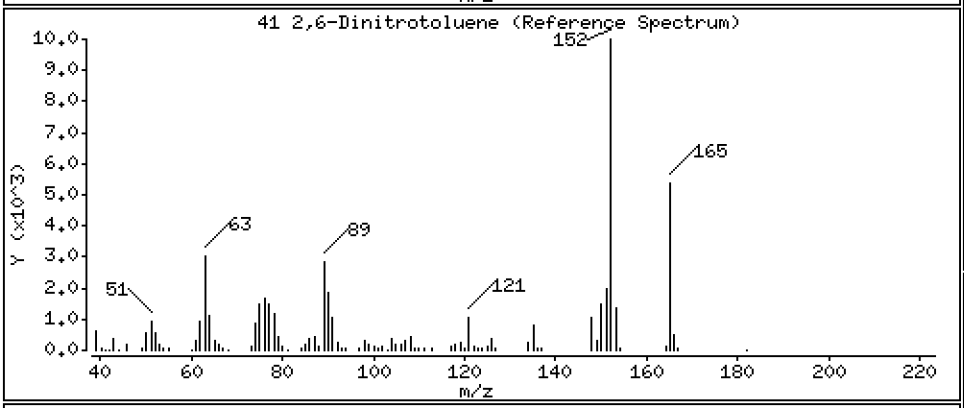
Concentration: 20.04 ug/mL

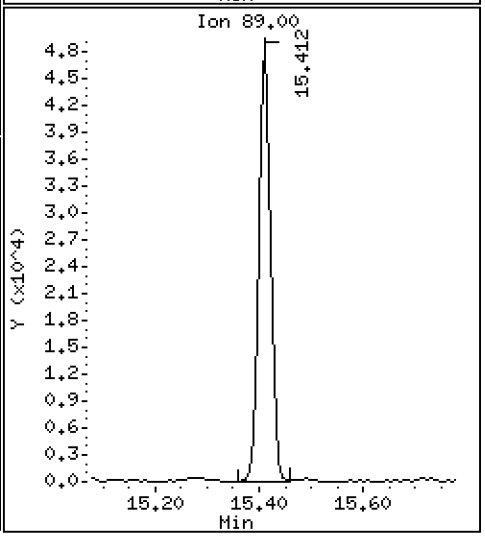


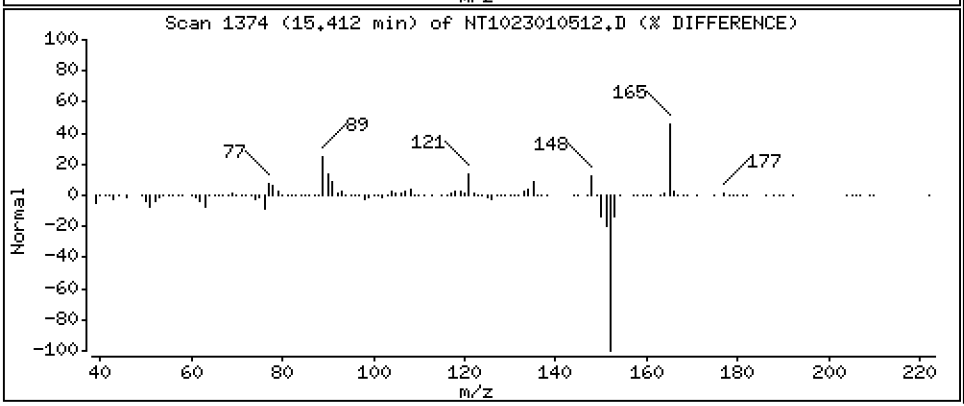












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

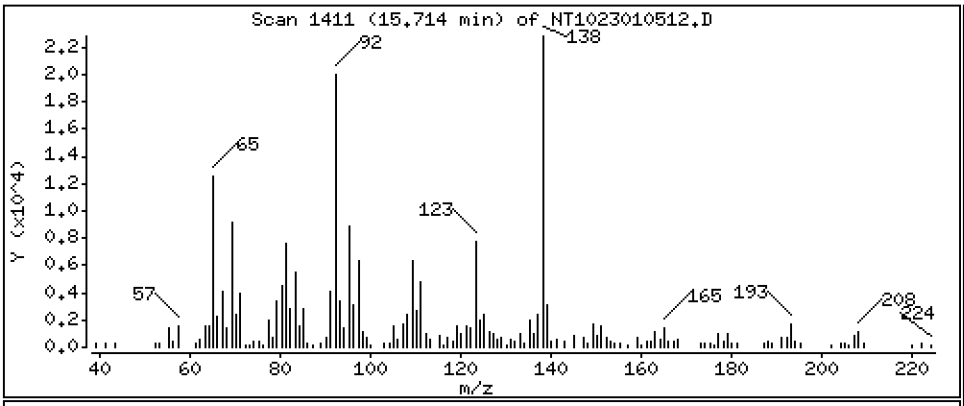
Operator: VTS

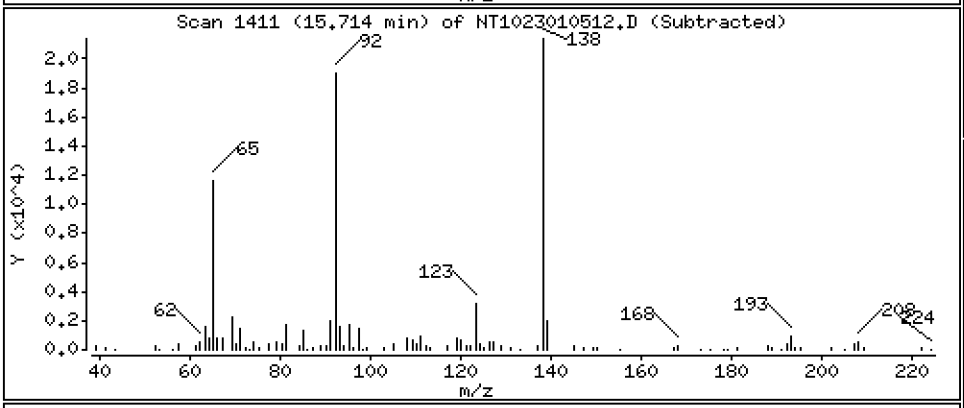
Column phase: ZB-5msi

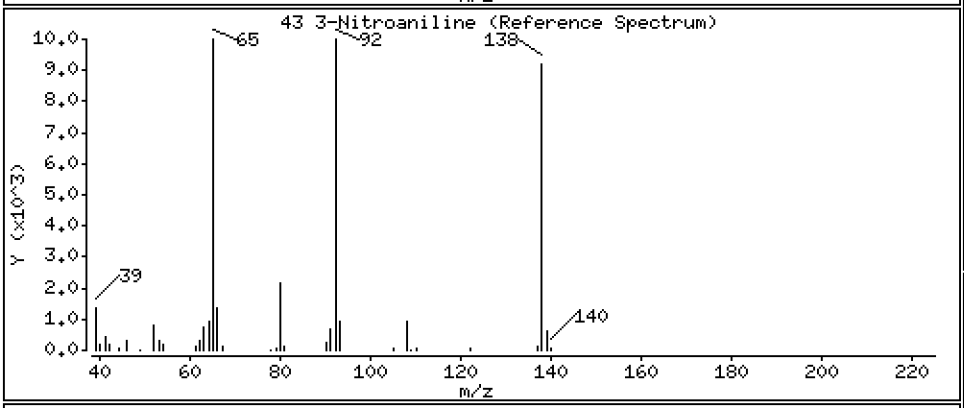
Column diameter: 0.25

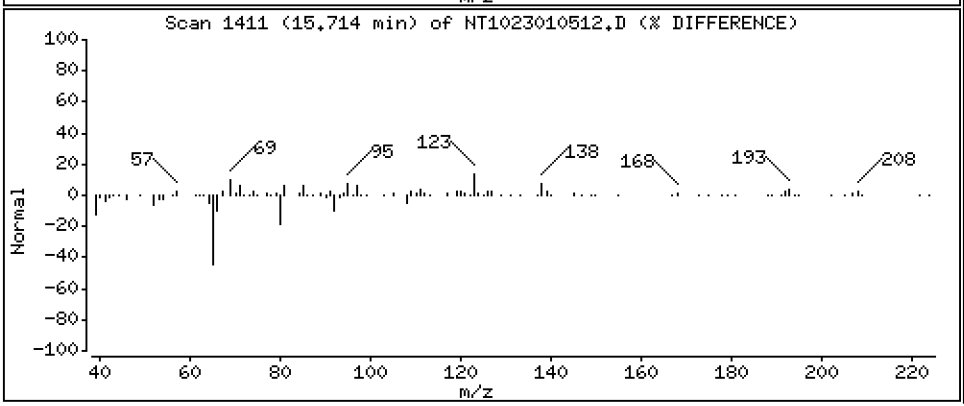
43 3-Nitroaniline

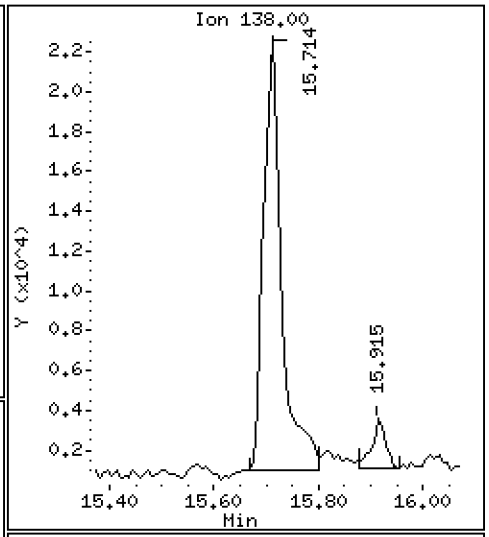
Concentration: 7.810 ug/mL

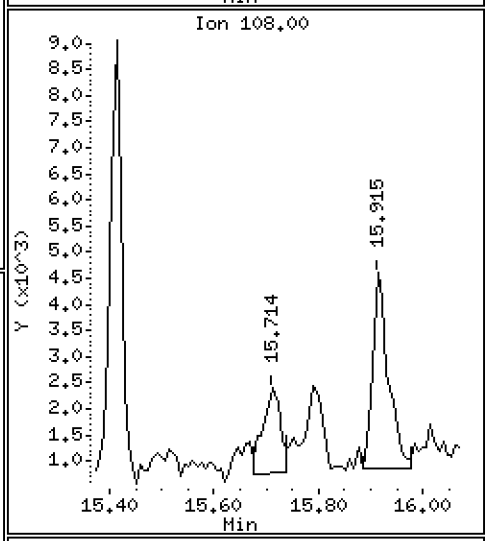


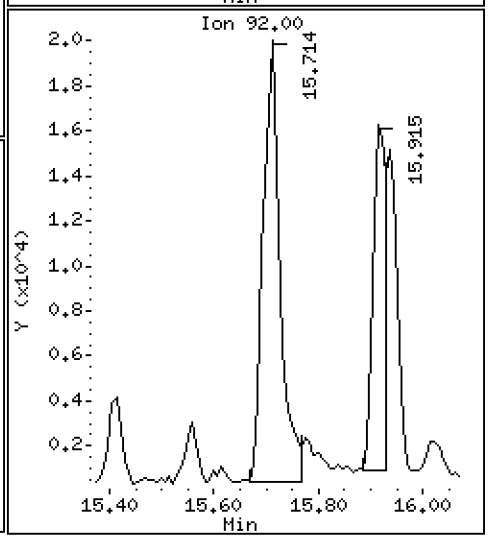












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

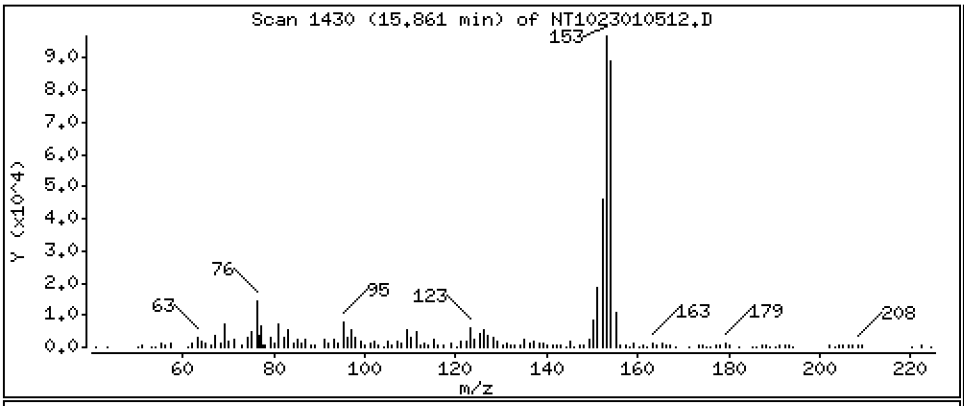
Operator: VTS

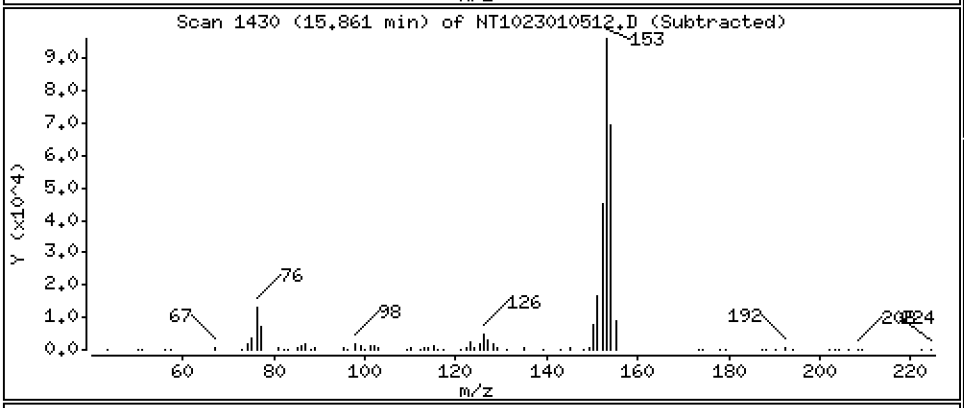
Column phase: ZB-5msi

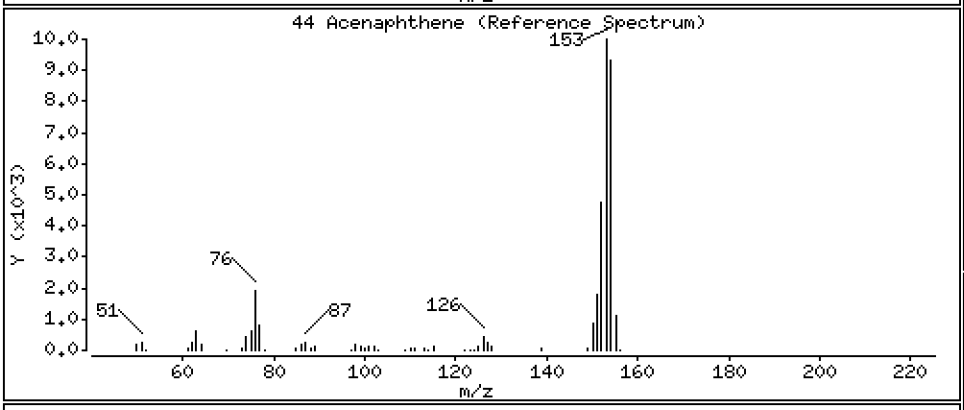
Column diameter: 0.25

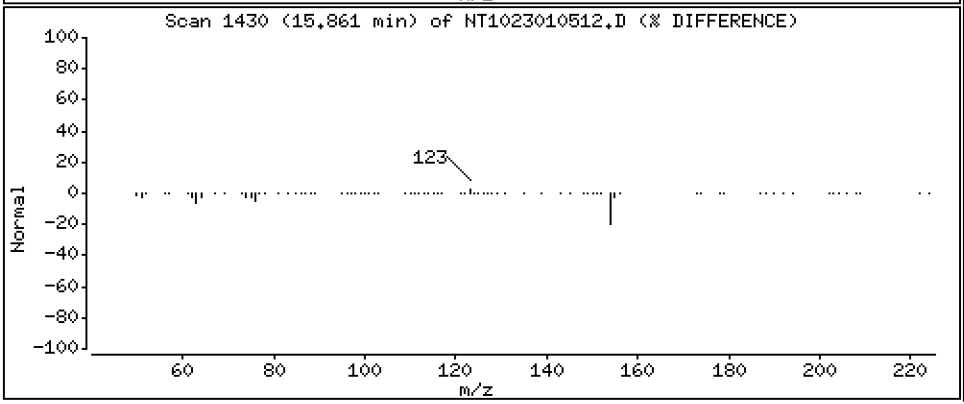
44 Acenaphthene

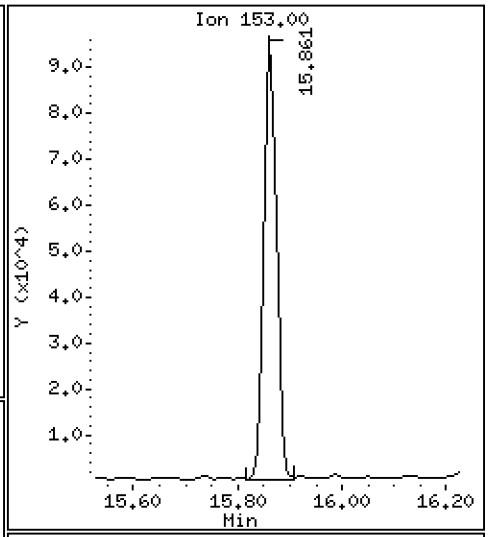
Concentration: 5.659 ug/mL

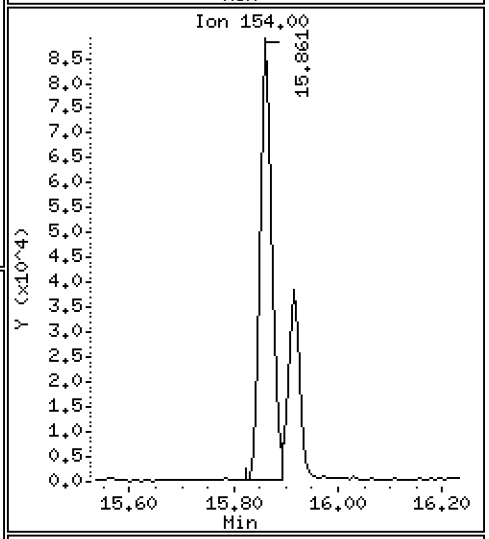


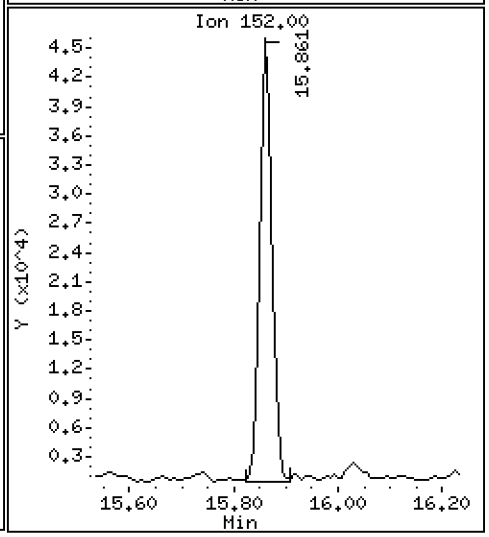












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

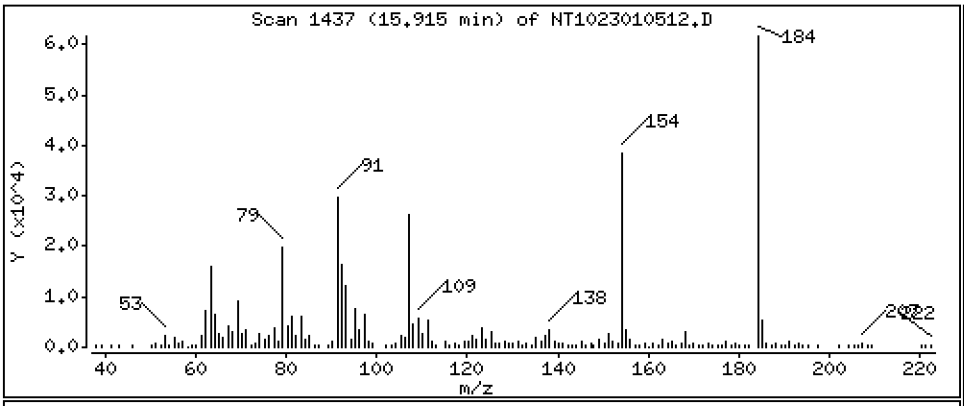
Operator: VTS

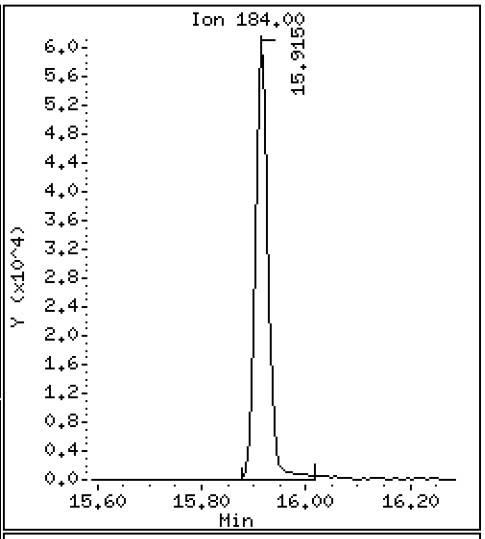
Column phase: ZB-5msi

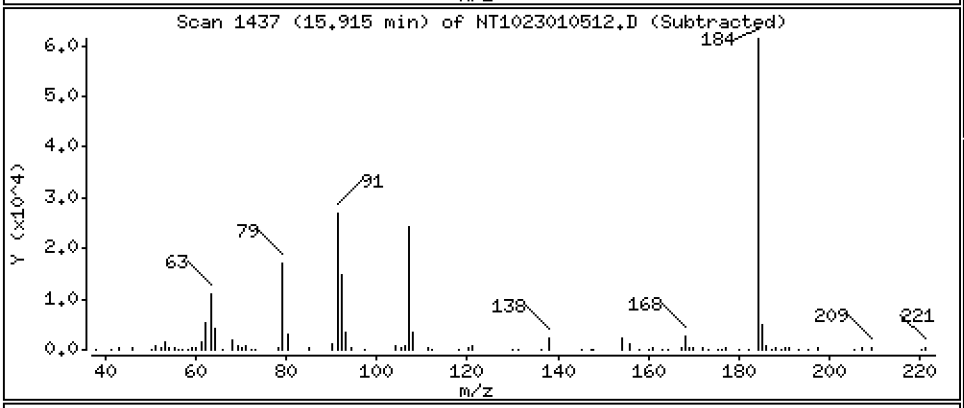
Column diameter: 0.25

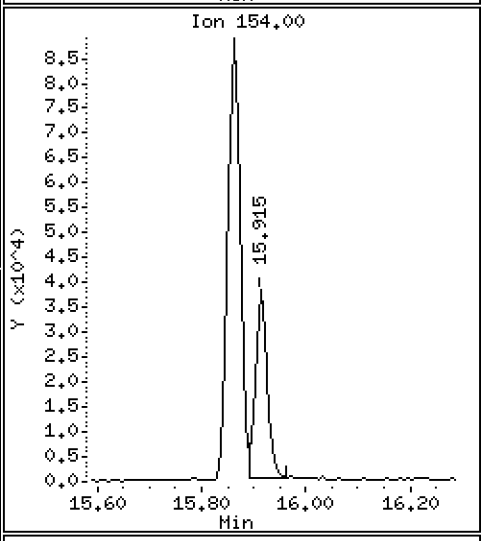
45 2,4-Dinitrophenol

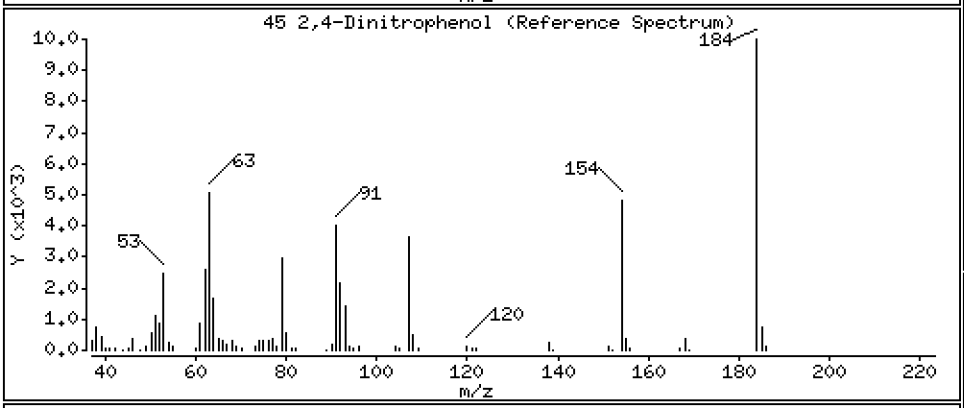
Concentration: 21.20 ug/mL

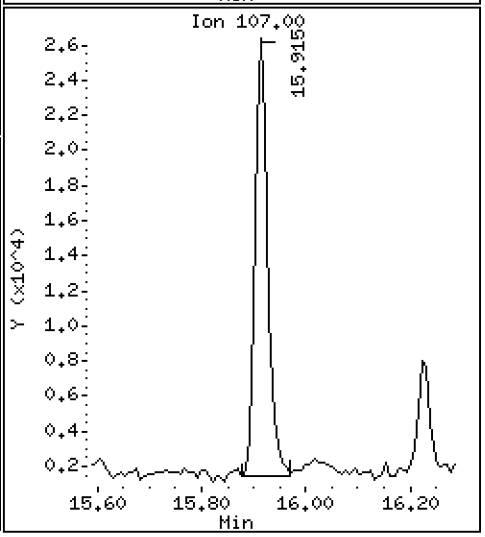


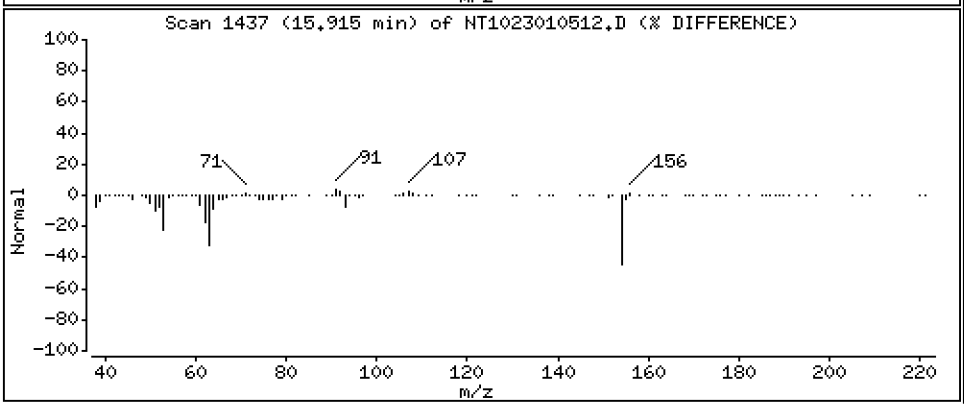












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

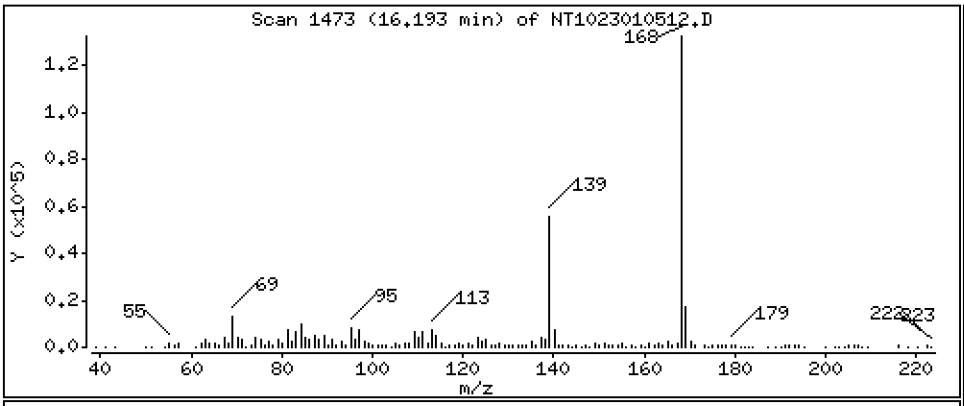
Operator: VTS

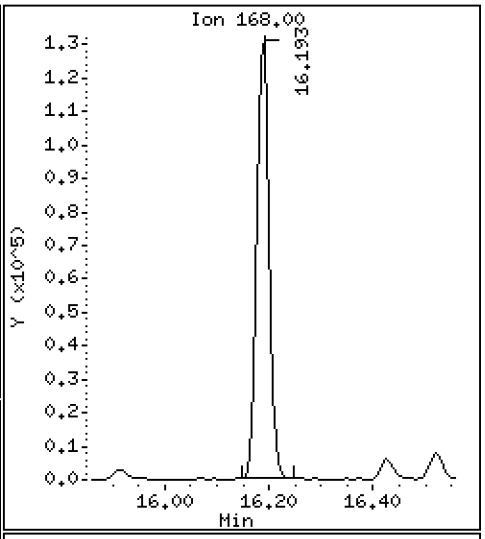
Column phase: ZB-5msi

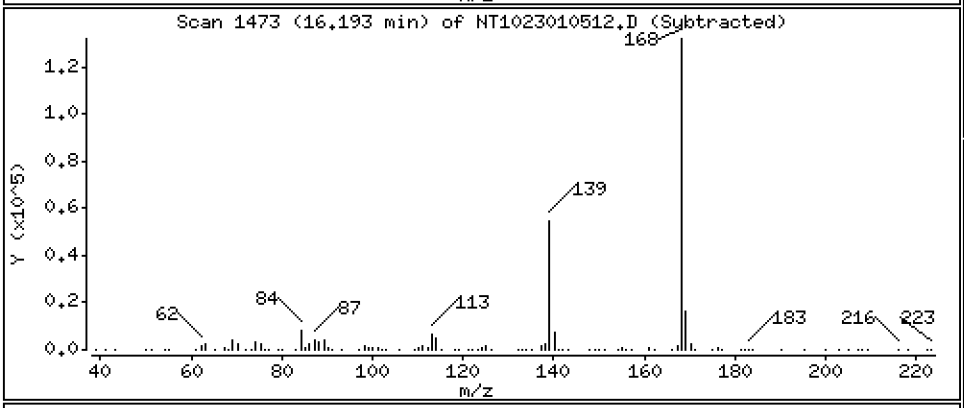
Column diameter: 0.25

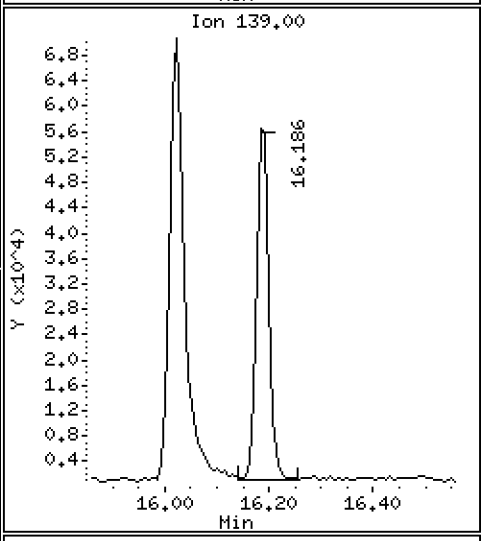
46 Dibenzofuran

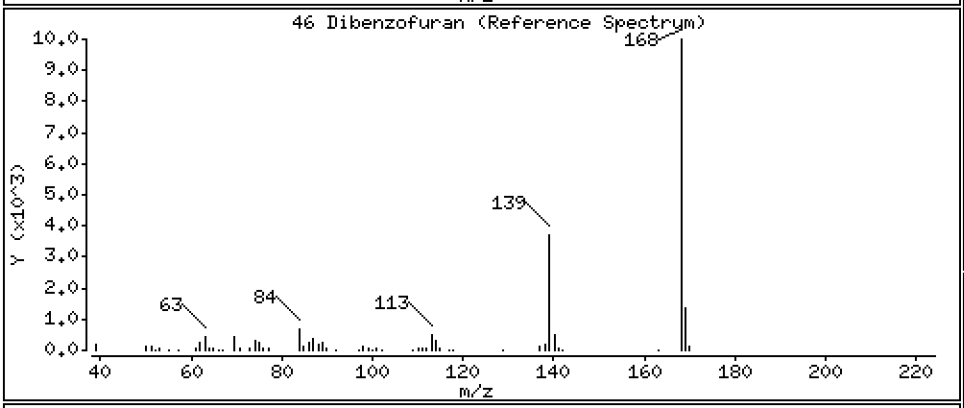
Concentration: 5.344 ug/mL

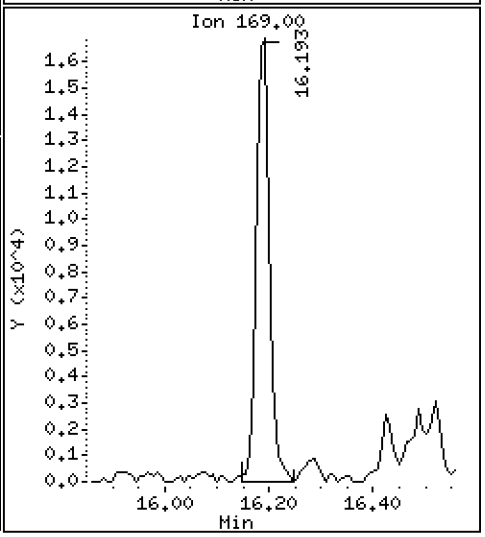


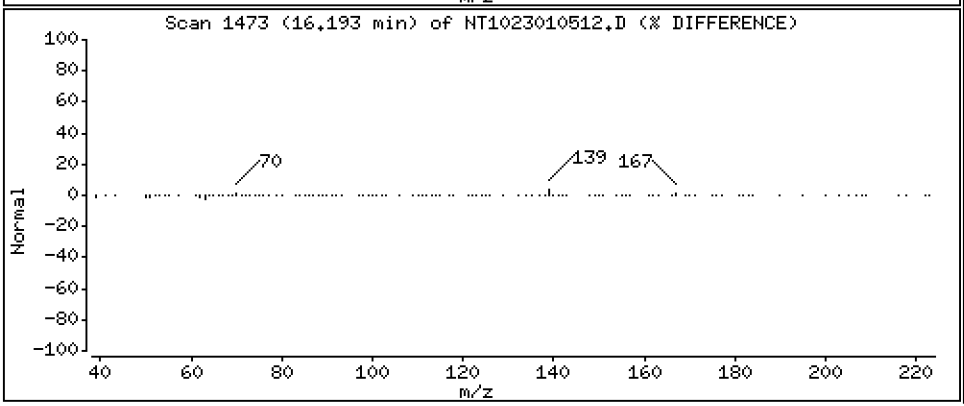












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

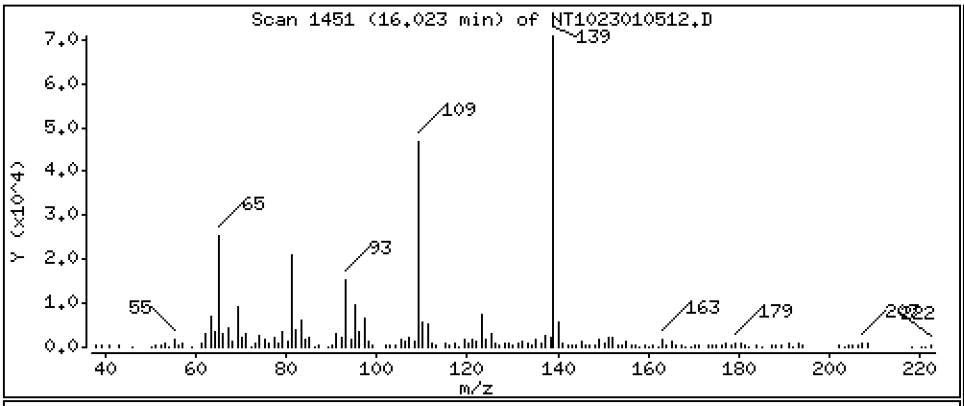
Operator: VTS

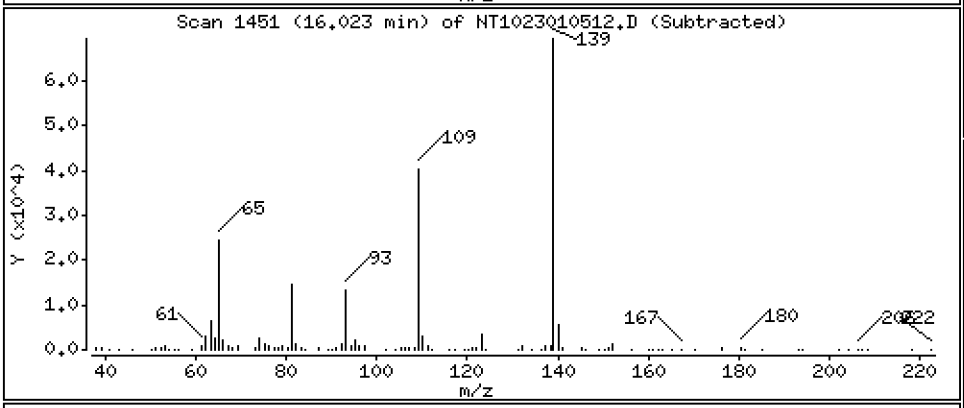
Column phase: ZB-5msi

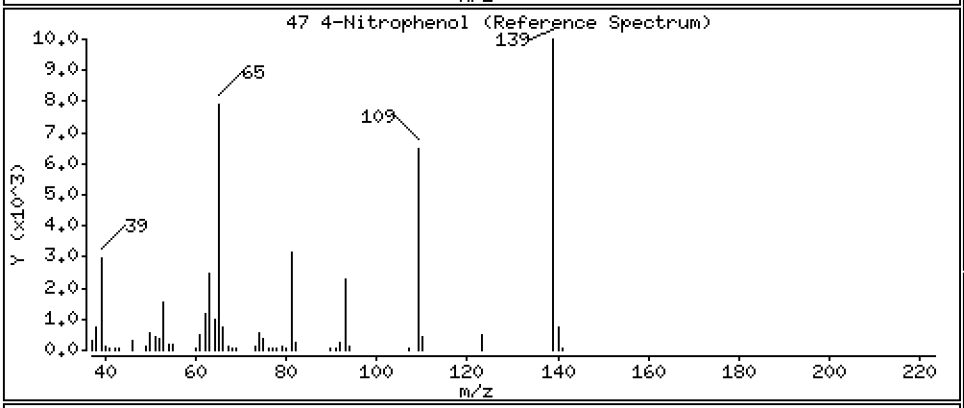
Column diameter: 0.25

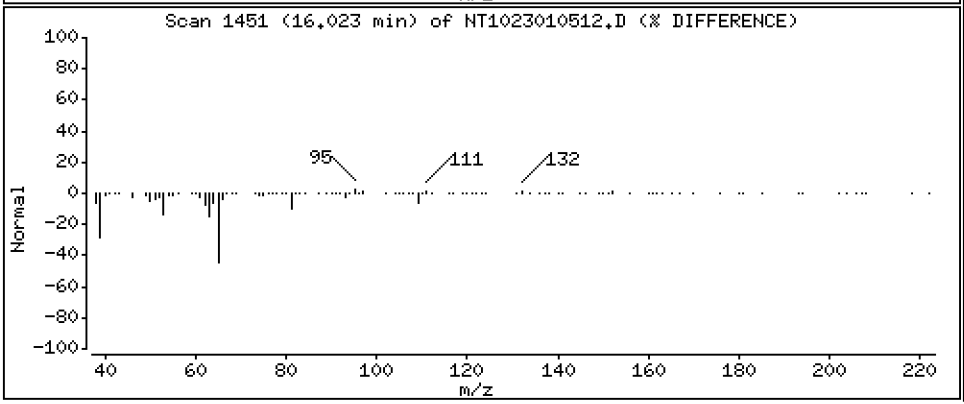
47 4-Nitrophenol

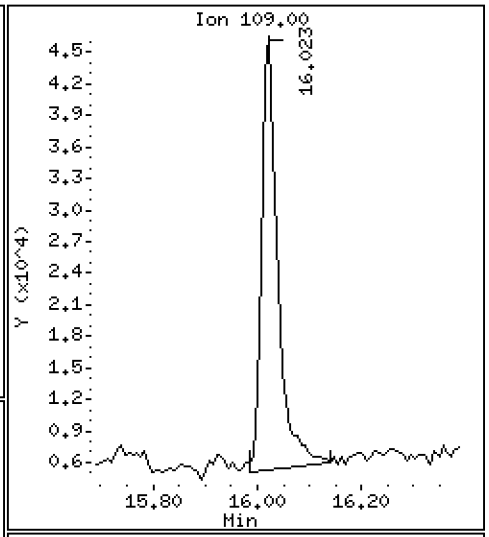
Concentration: 20.41 ug/mL

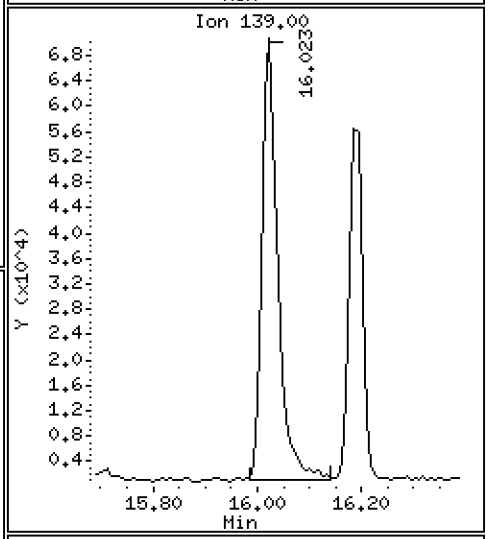


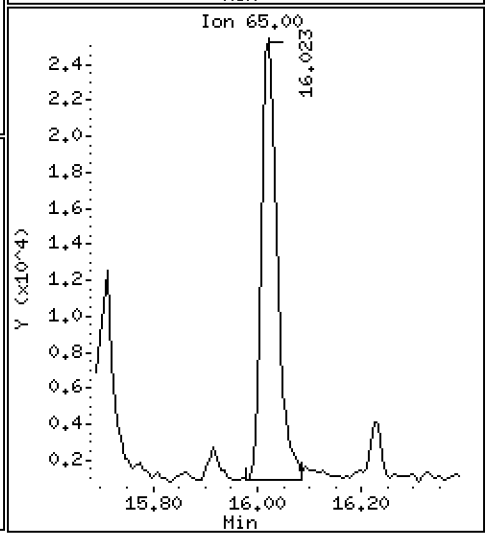












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

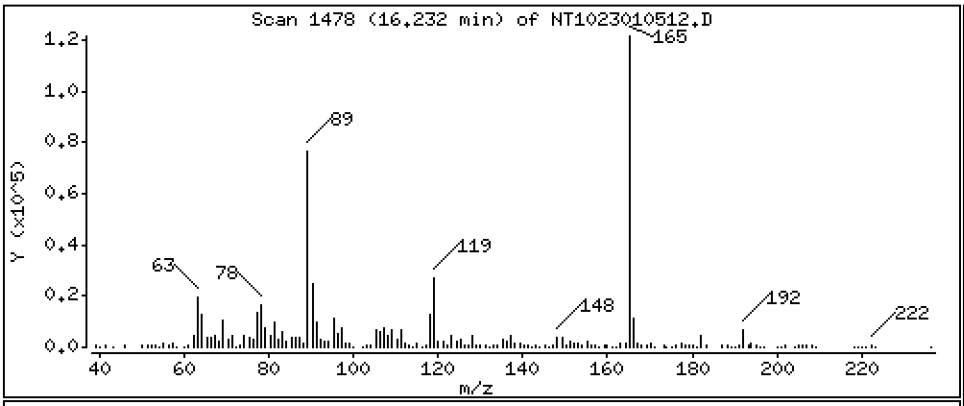
Operator: VTS

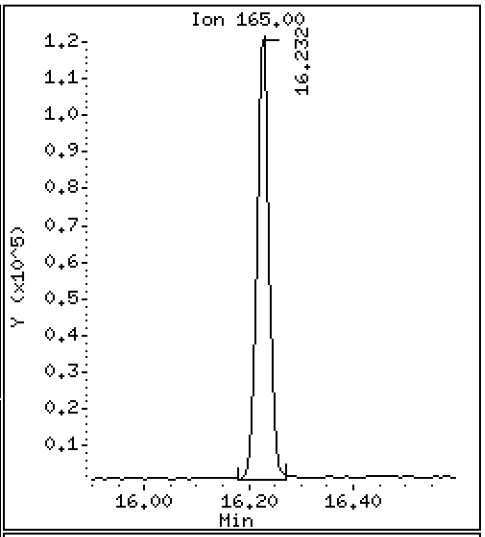
Column phase: ZB-5msi

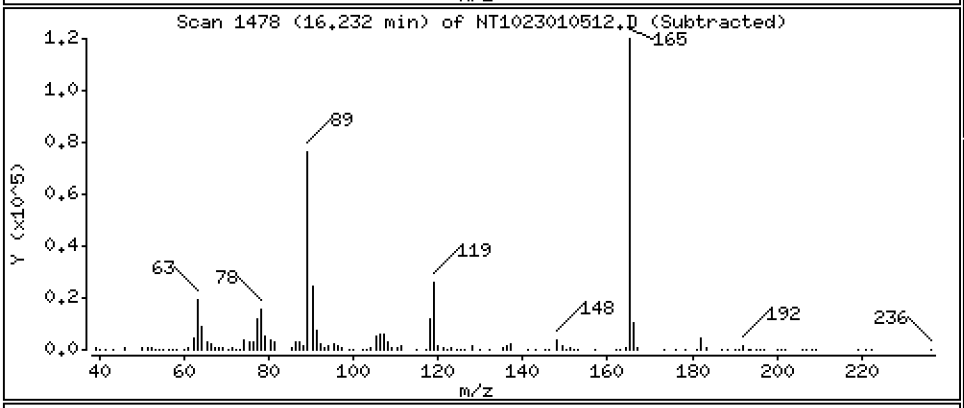
Column diameter: 0.25

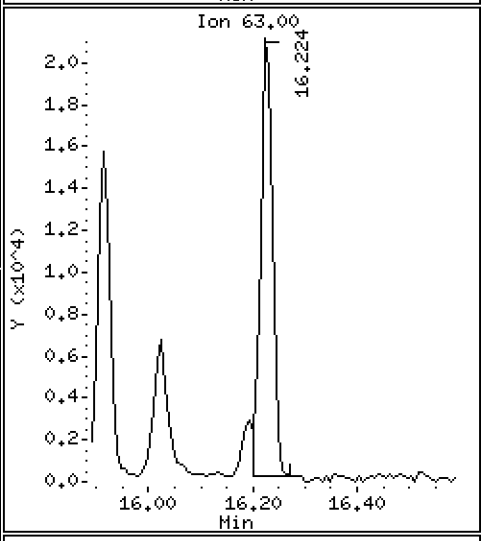
48 2,4-Dinitrotoluene

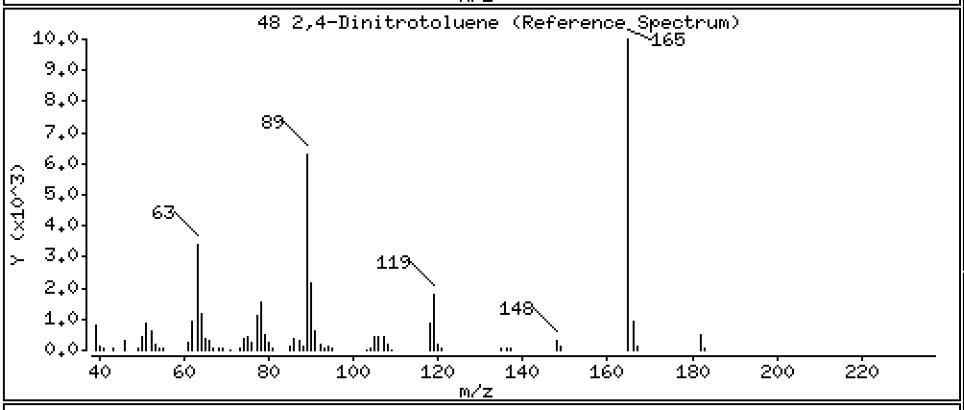
Concentration: 20.35 ug/mL

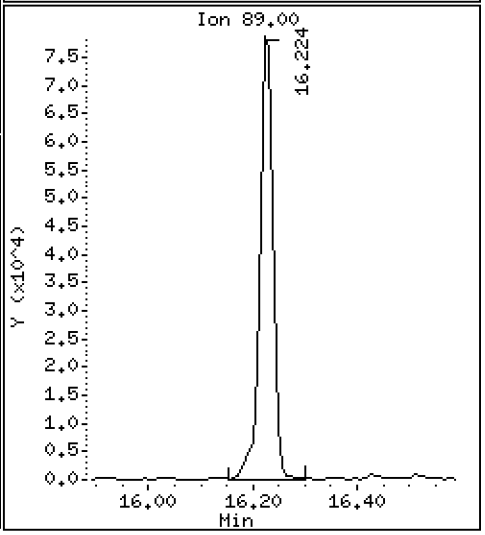


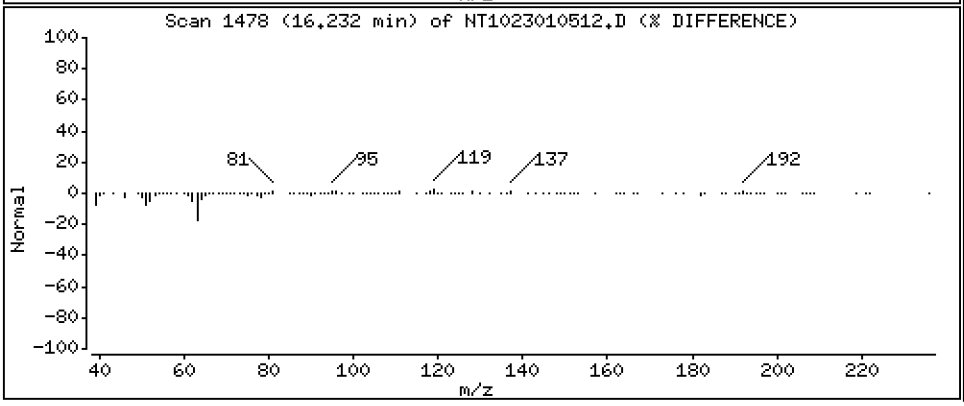












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

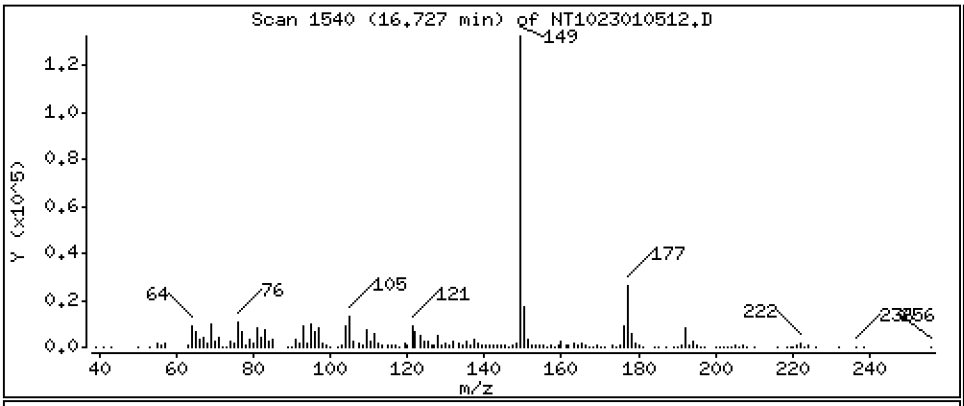
Operator: VTS

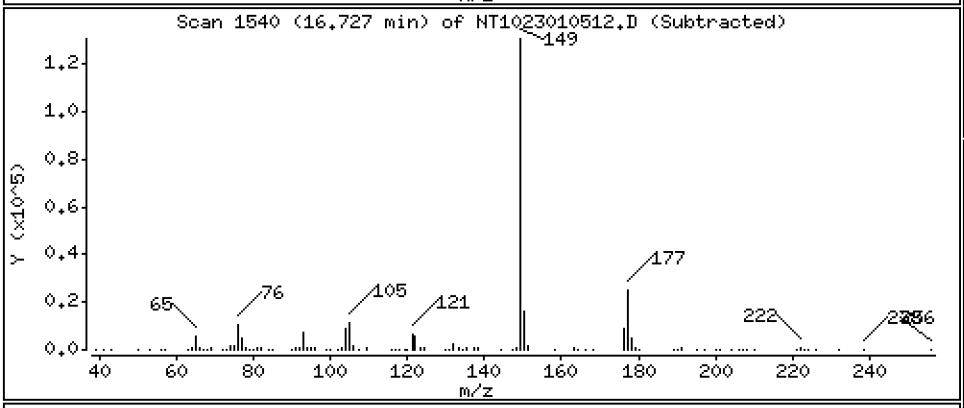
Column phase: ZB-5msi

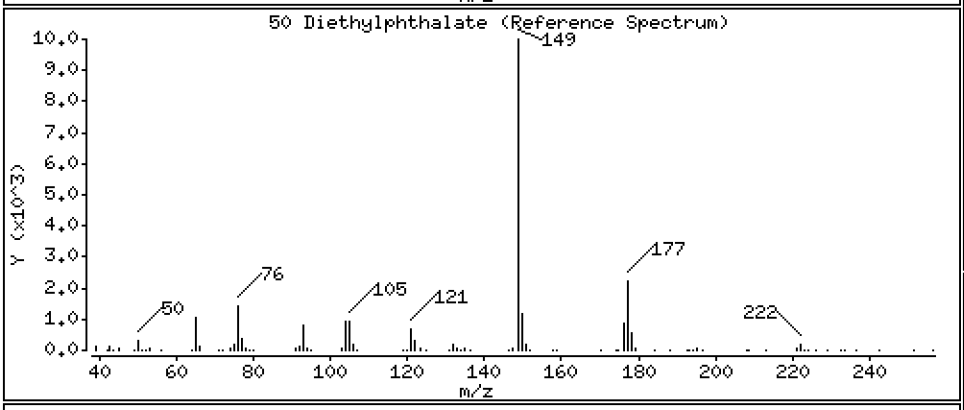
Column diameter: 0.25

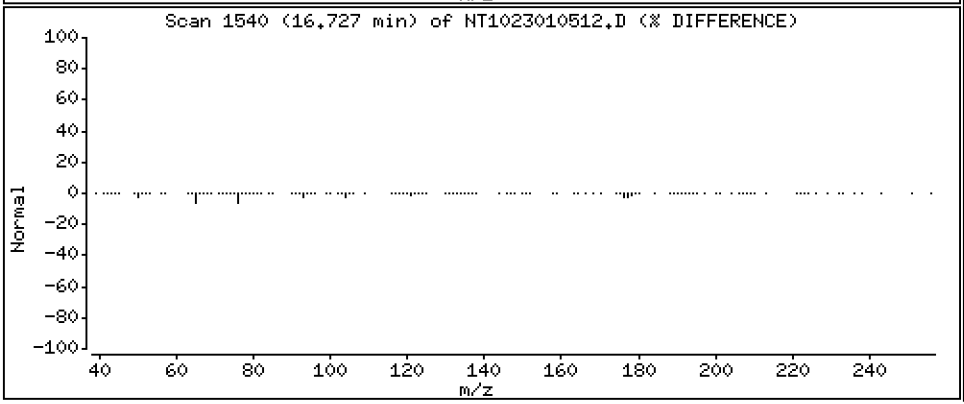
50 Diethylphthalate

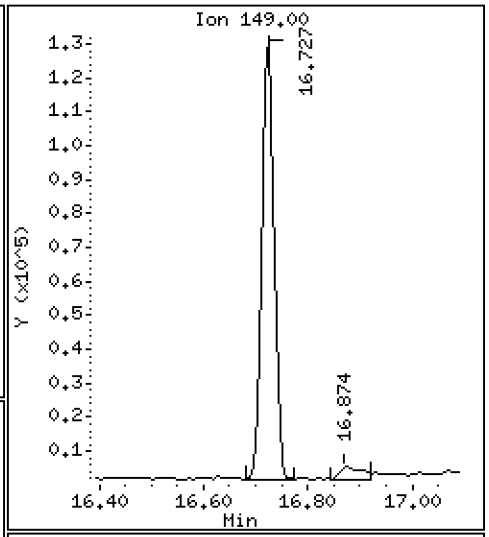
Concentration: 6.306 ug/mL

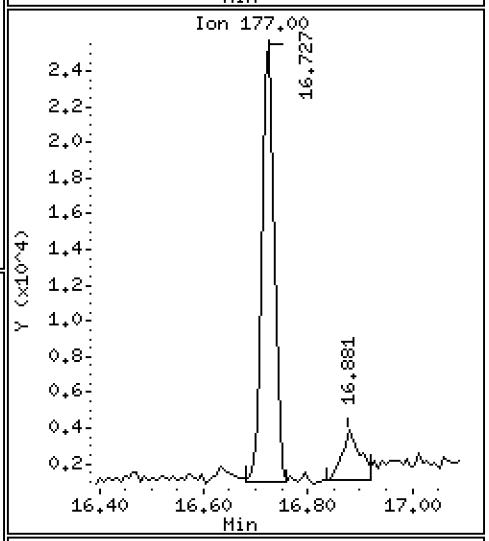


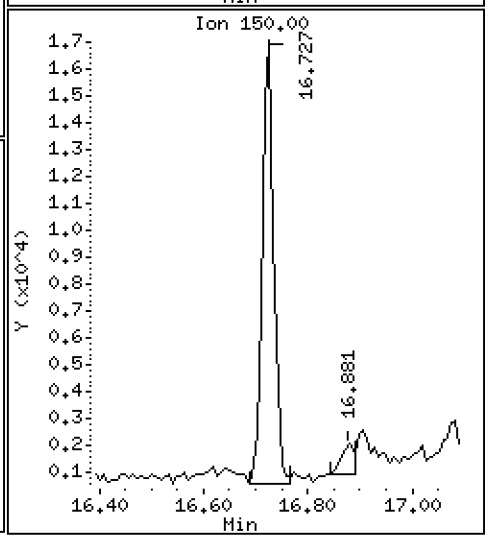












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

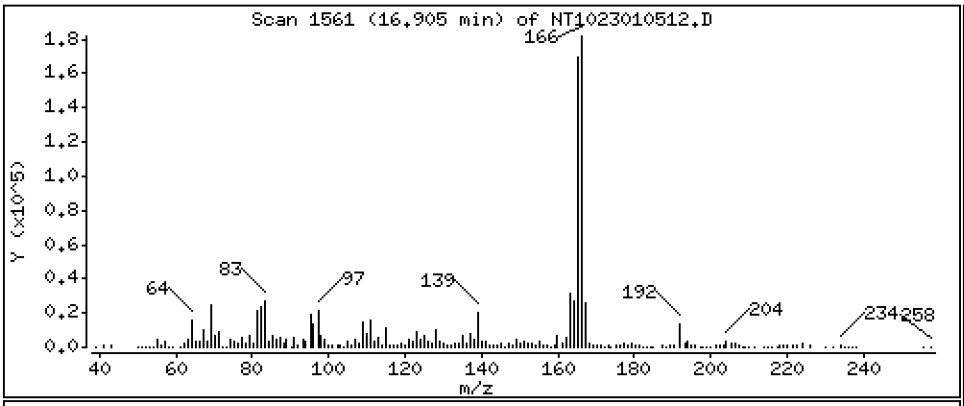
Operator: VTS

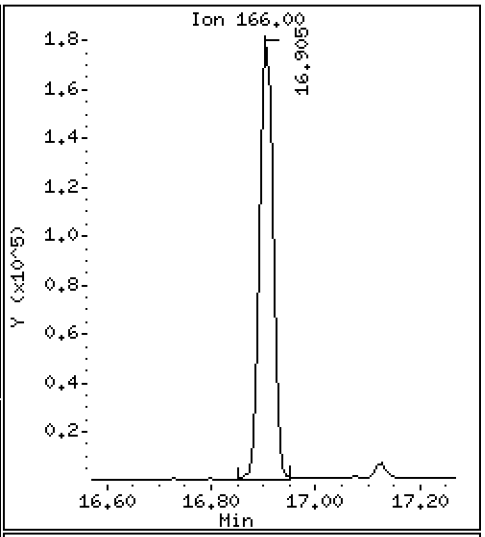
Column phase: ZB-5msi

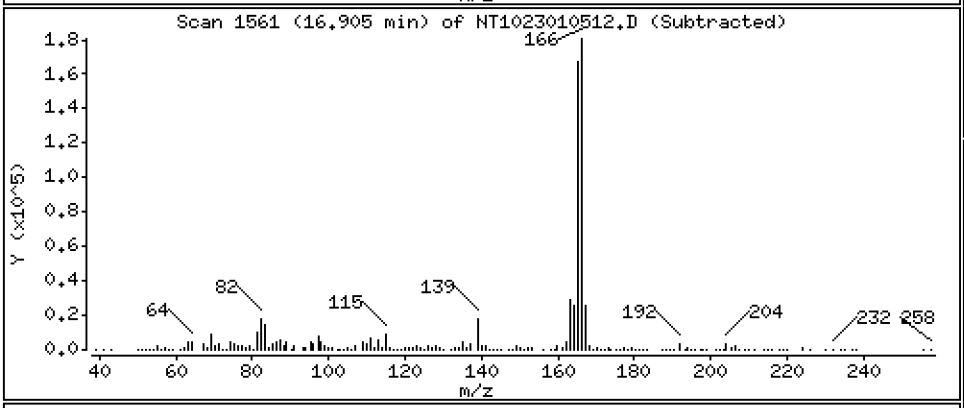
Column diameter: 0.25

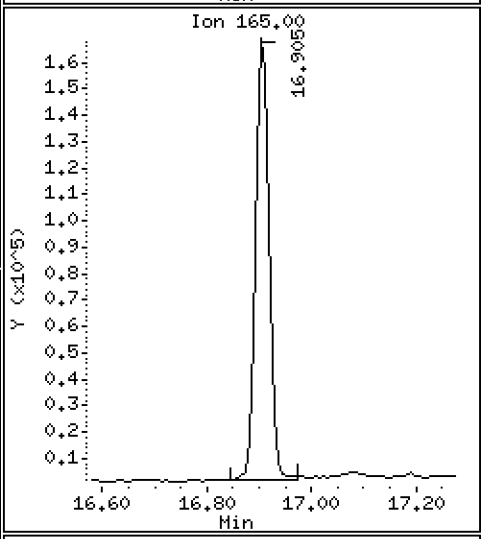
49 Fluorene

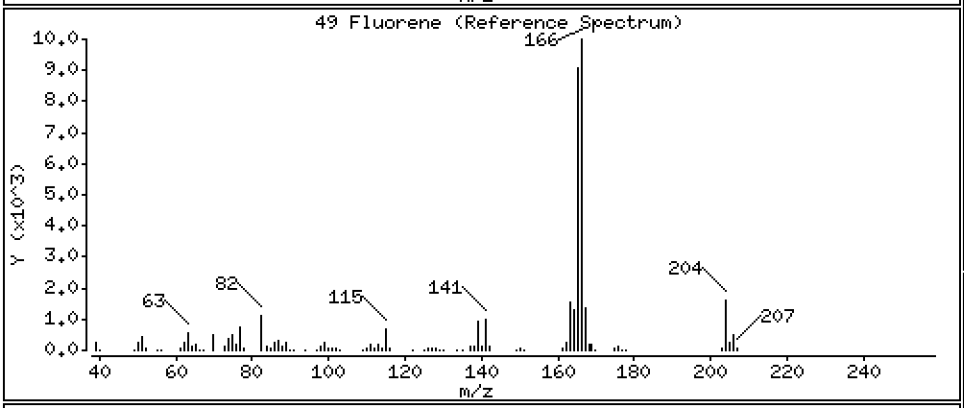
Concentration: 5.852 ug/mL

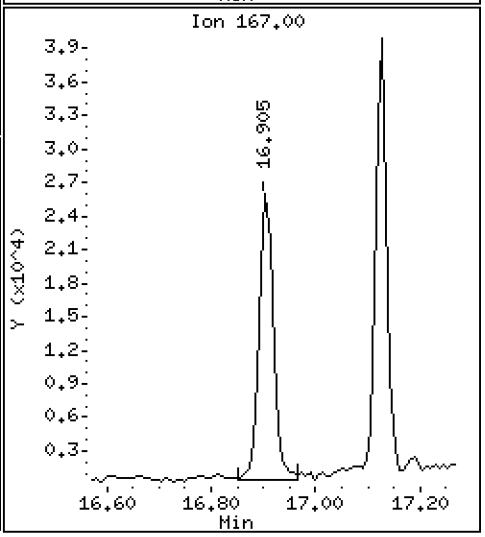


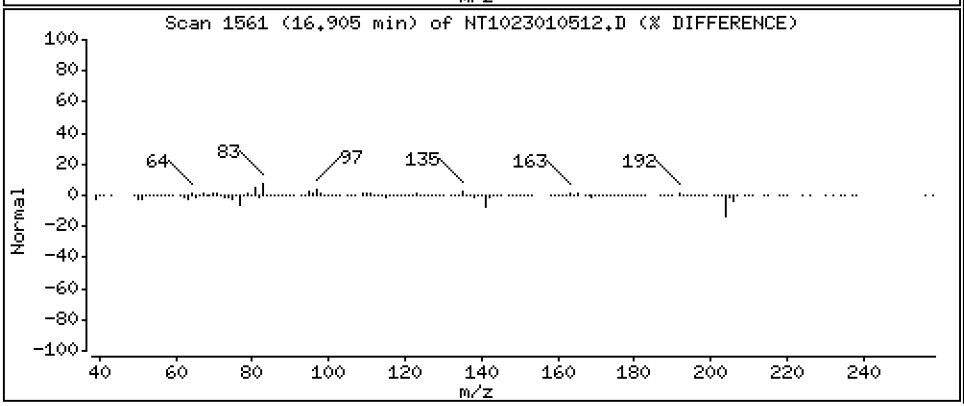












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

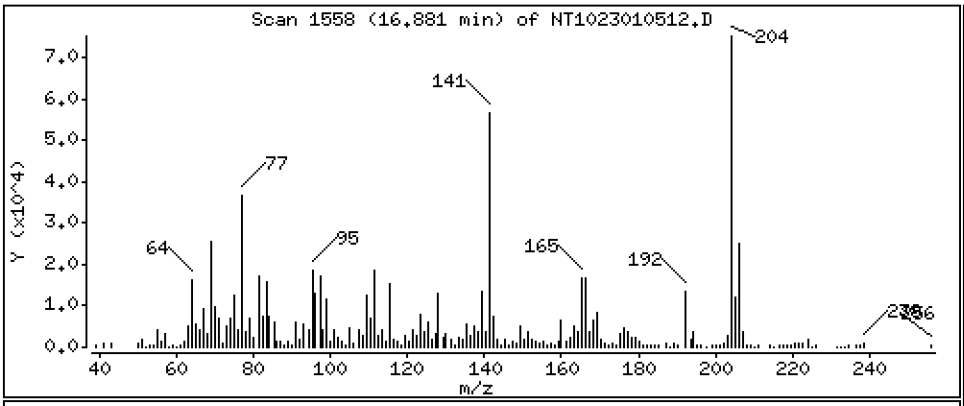
Operator: VTS

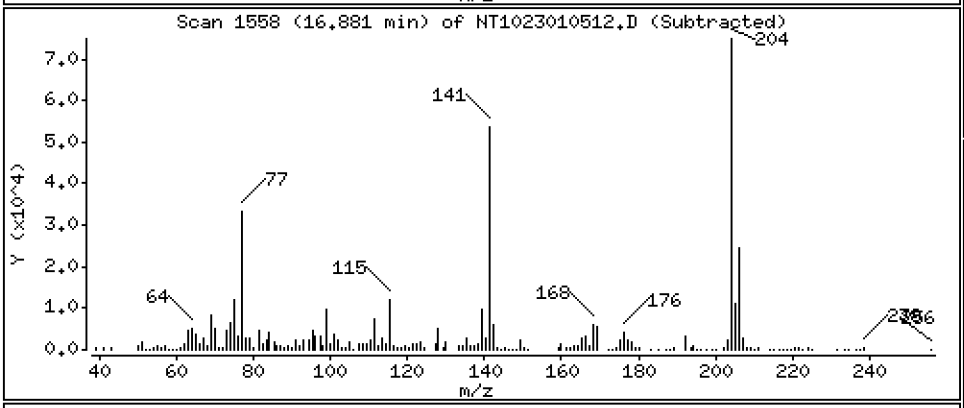
Column phase: ZB-5msi

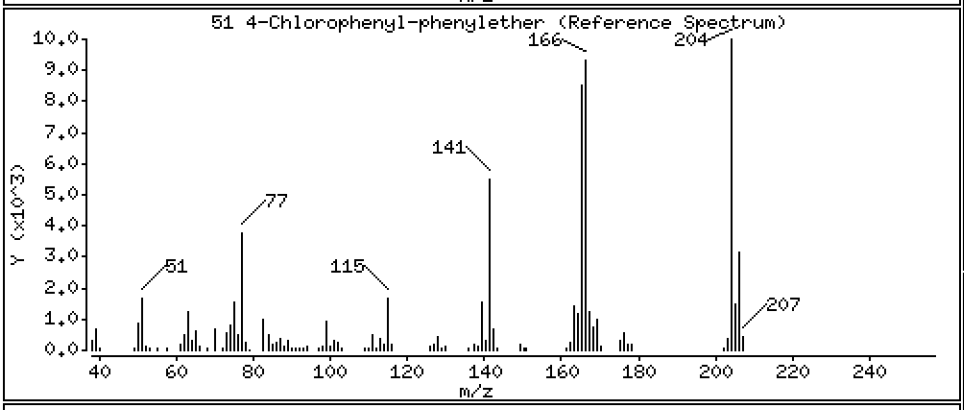
Column diameter: 0.25

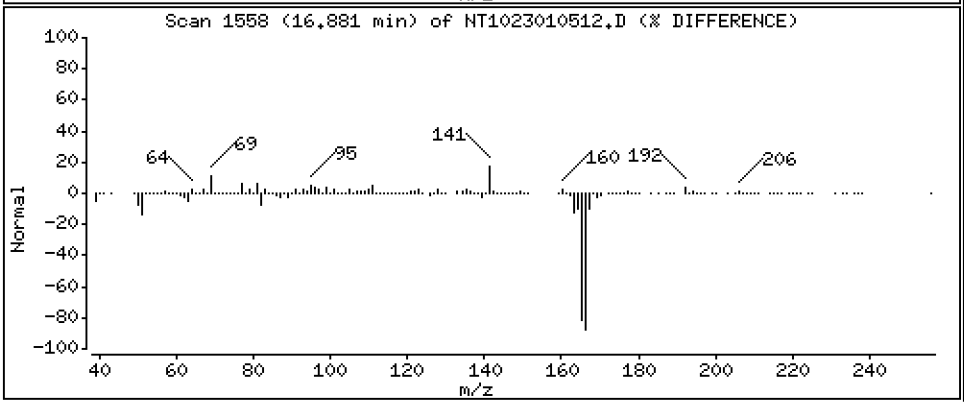
51 4-Chlorophenyl-phenylether

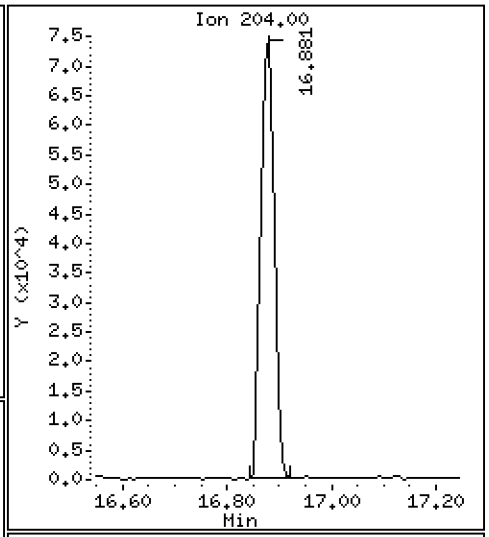
Concentration: 6.086 ug/mL

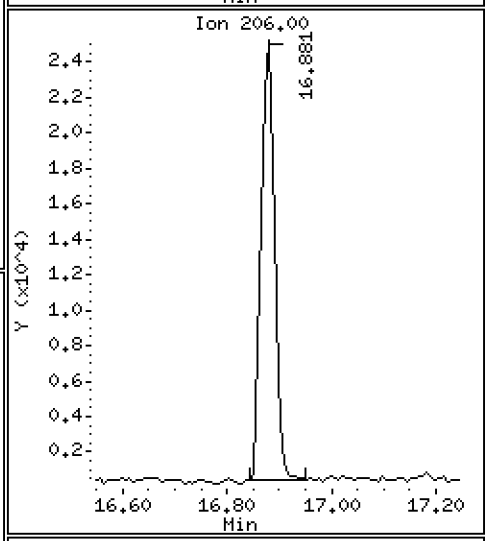


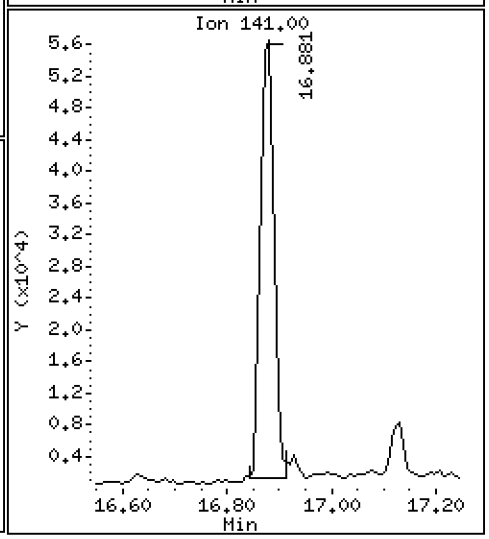












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

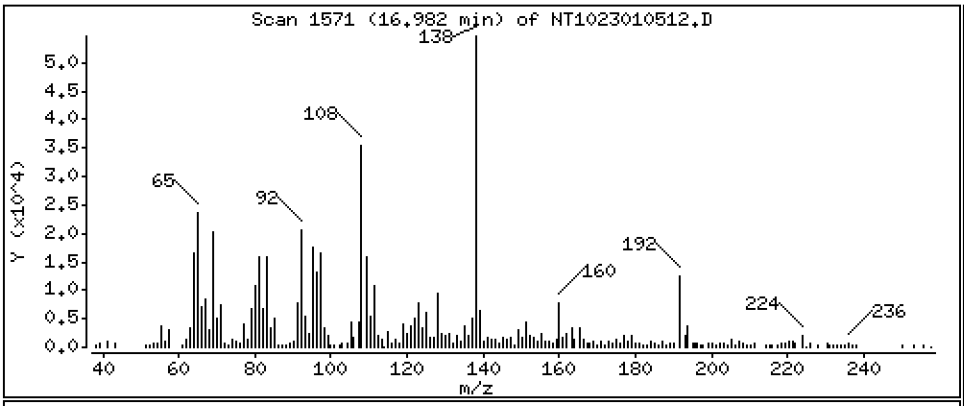
Operator: VTS

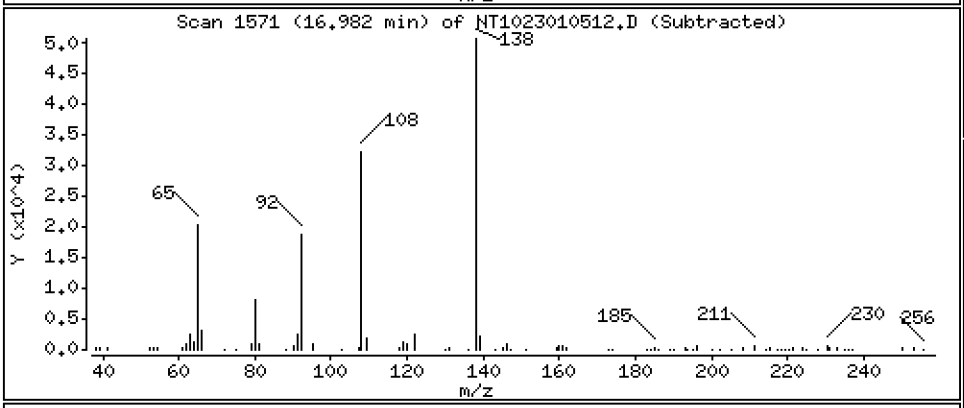
Column phase: ZB-5msi

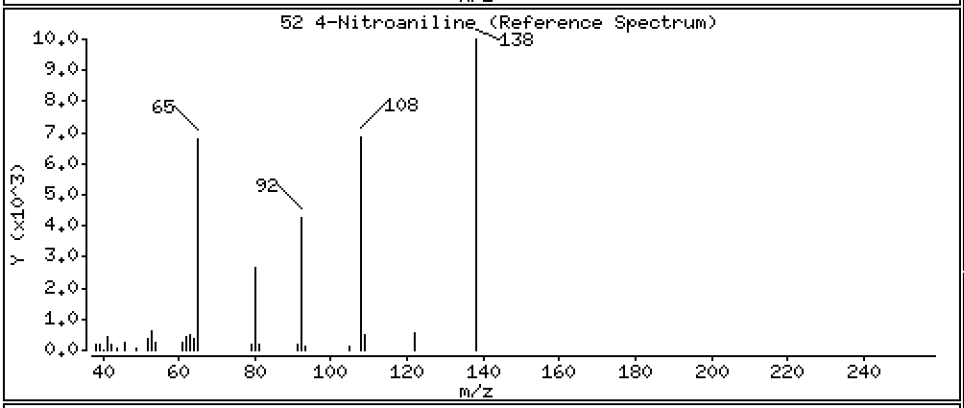
Column diameter: 0.25

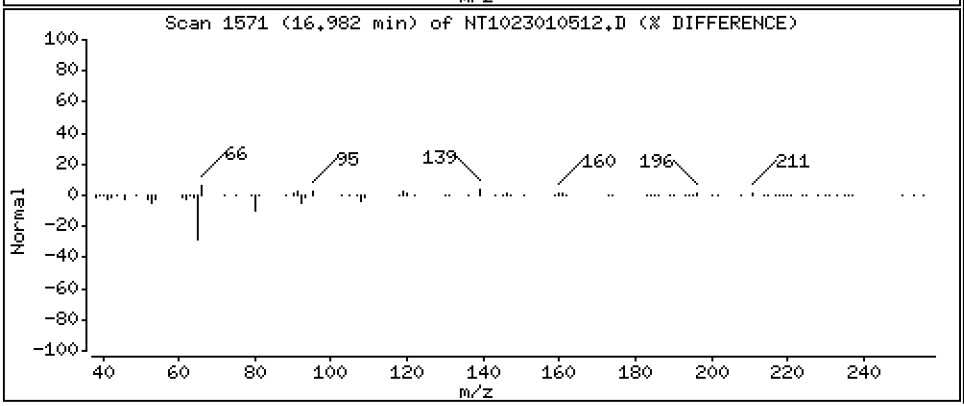
52 4-Nitroaniline

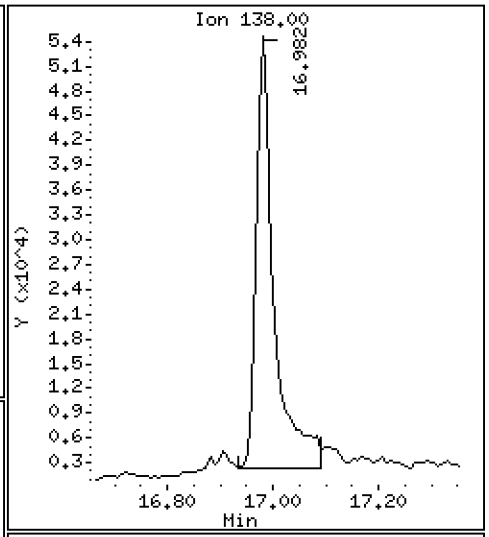
Concentration: 8.908 ug/mL

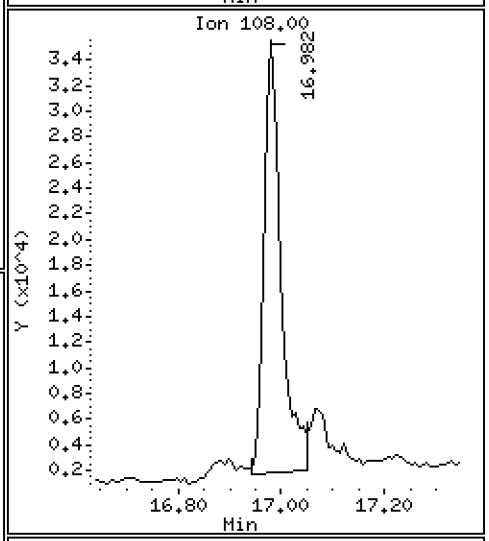


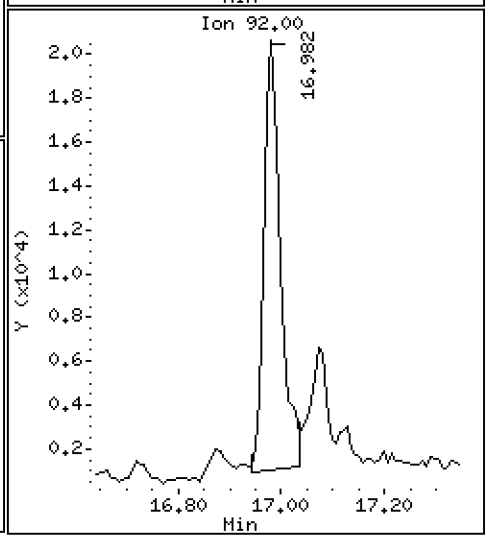












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

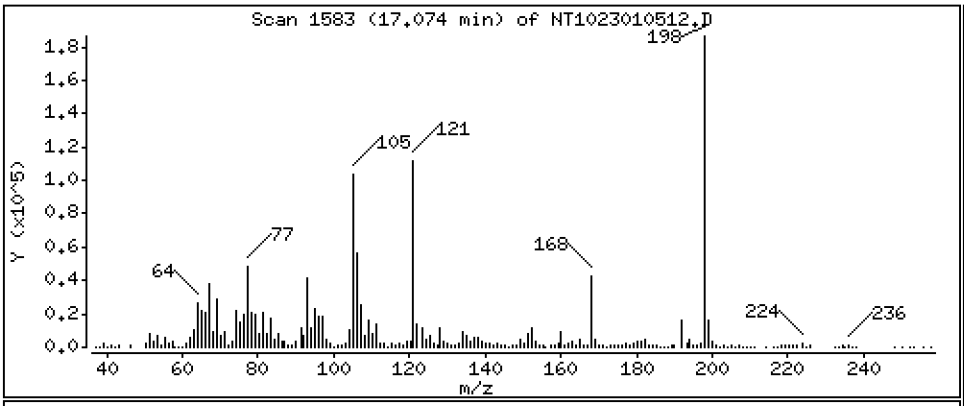
Operator: VTS

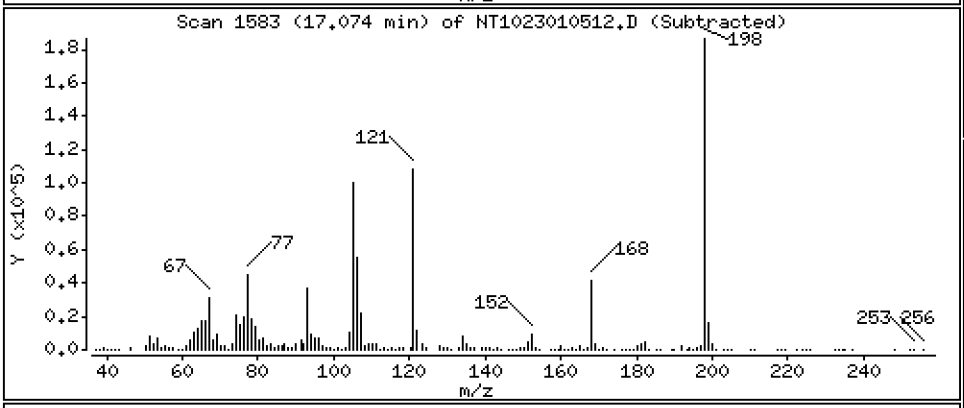
Column phase: ZB-5msi

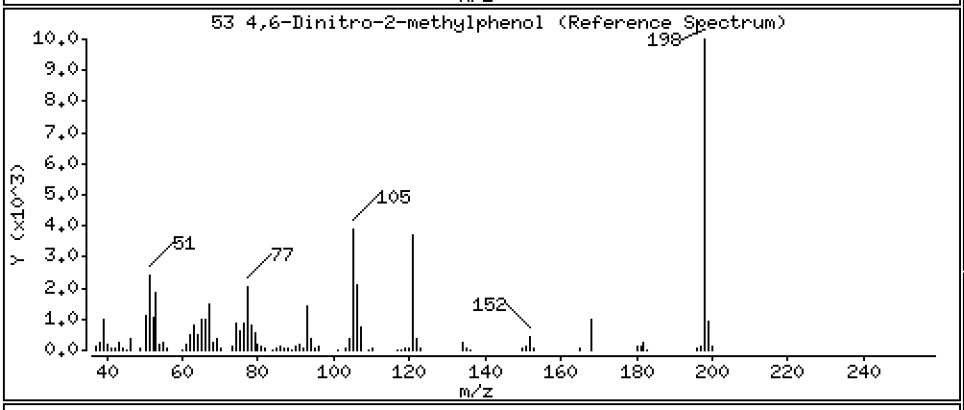
Column diameter: 0.25

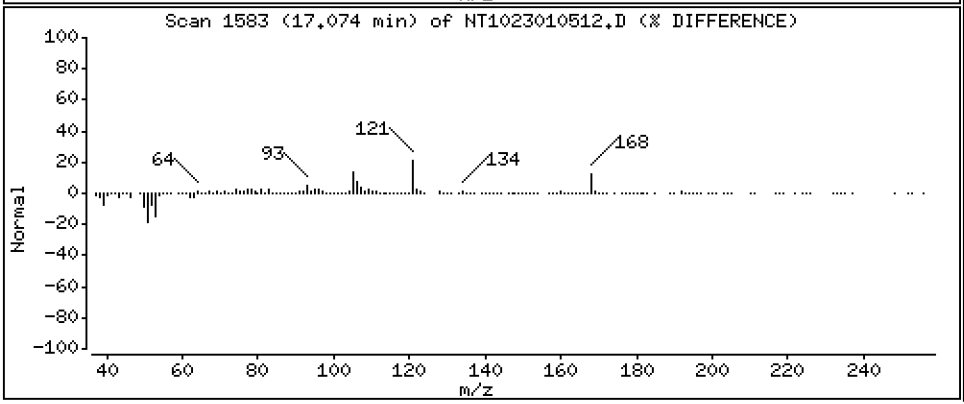
53 4,6-Dinitro-2-methylphenol

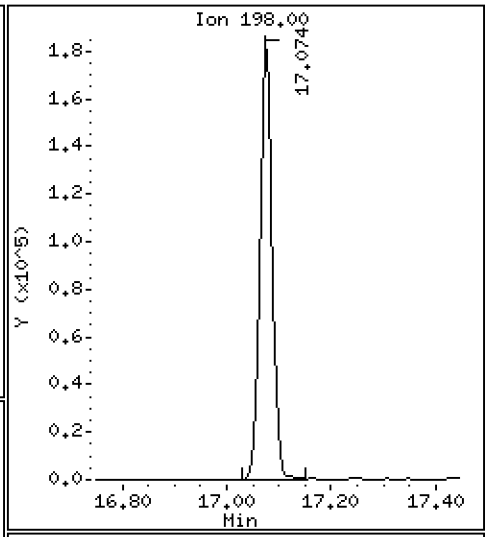
Concentration: 37.67 ug/mL

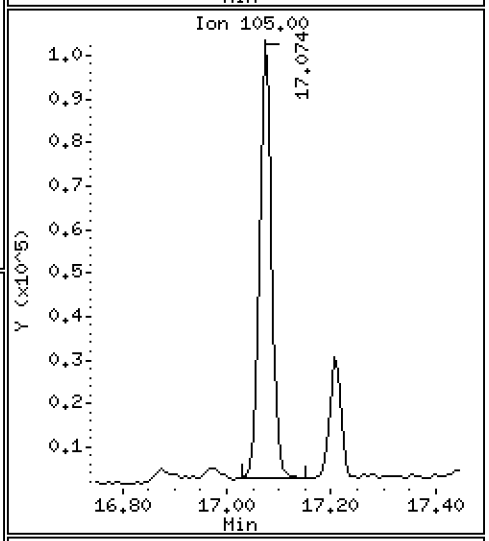


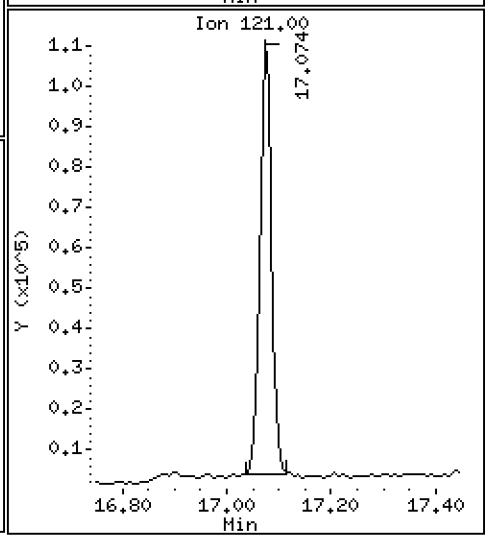












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

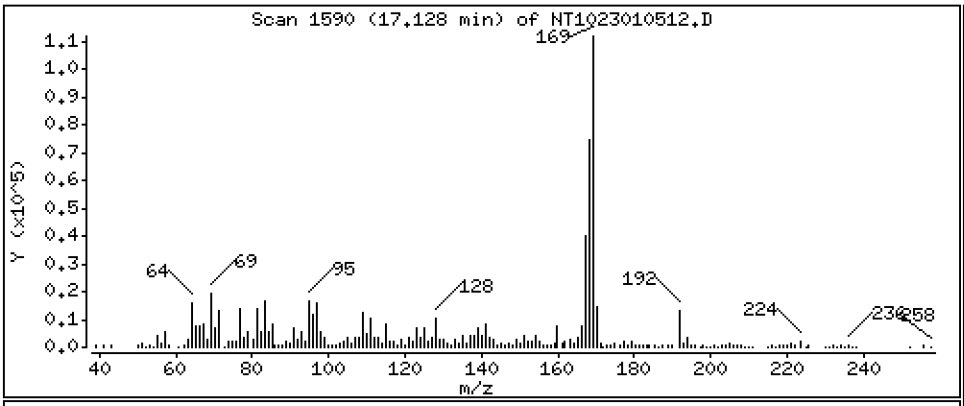
Operator: VTS

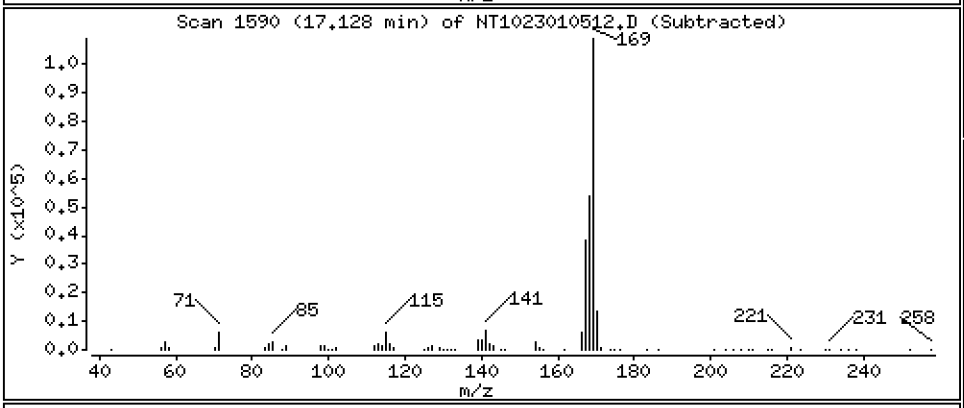
Column phase: ZB-5msi

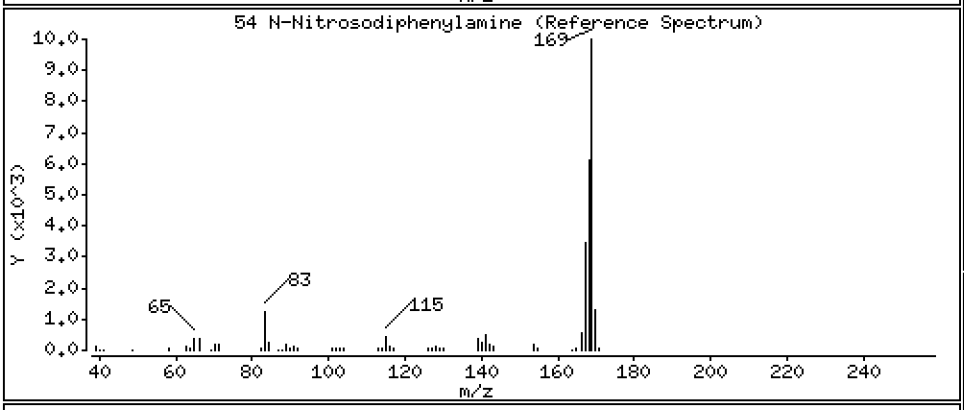
Column diameter: 0.25

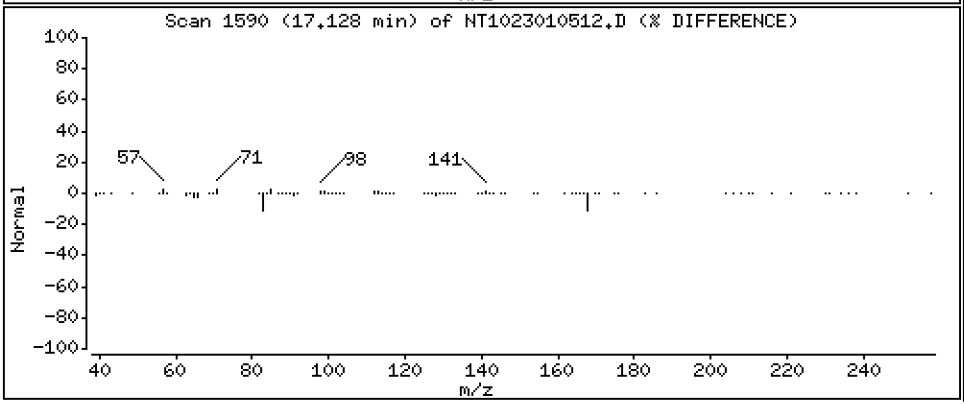
54 N-Nitrosodiphenylamine

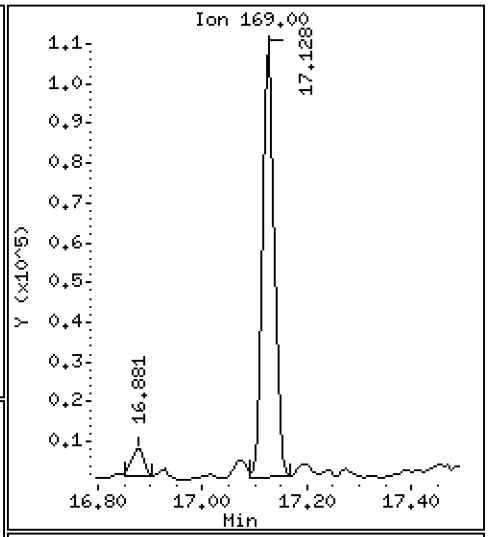
Concentration: 5.221 ug/mL

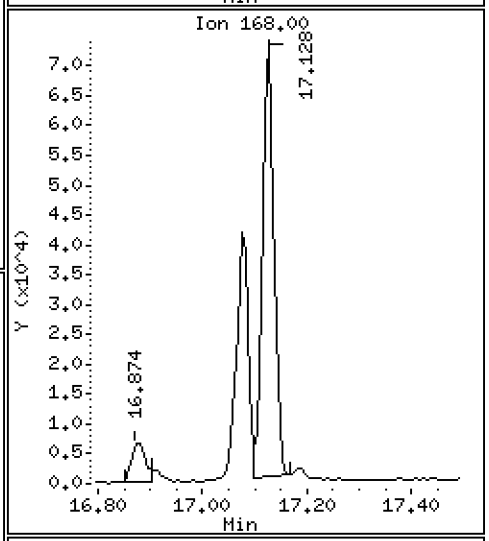


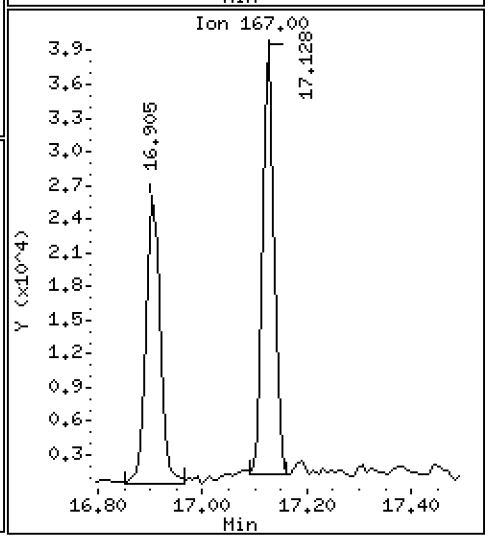












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

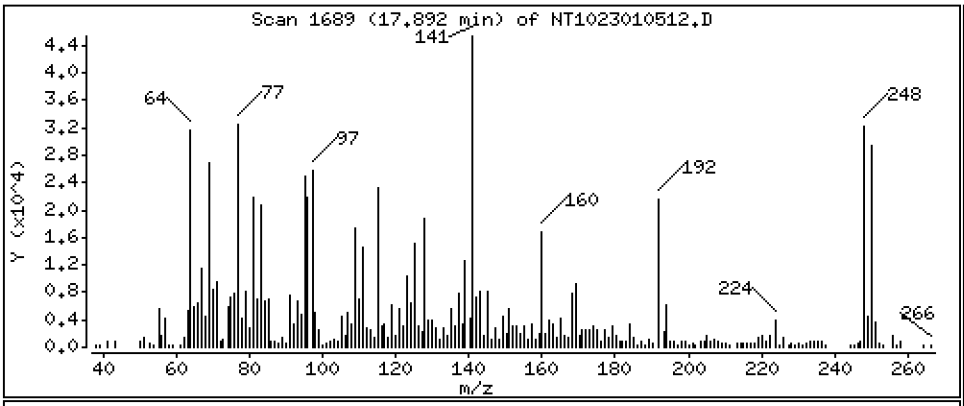
Operator: VTS

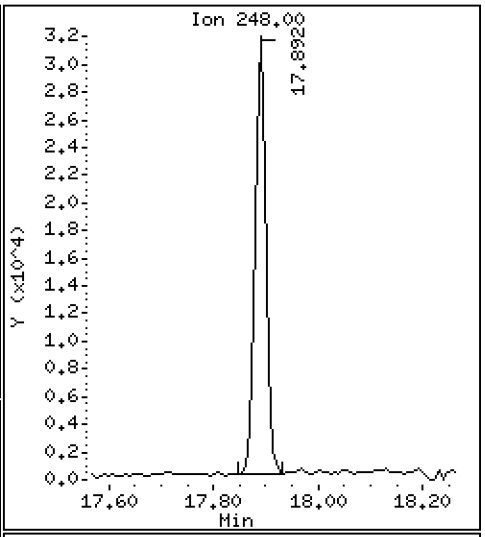
Column phase: ZB-5msi

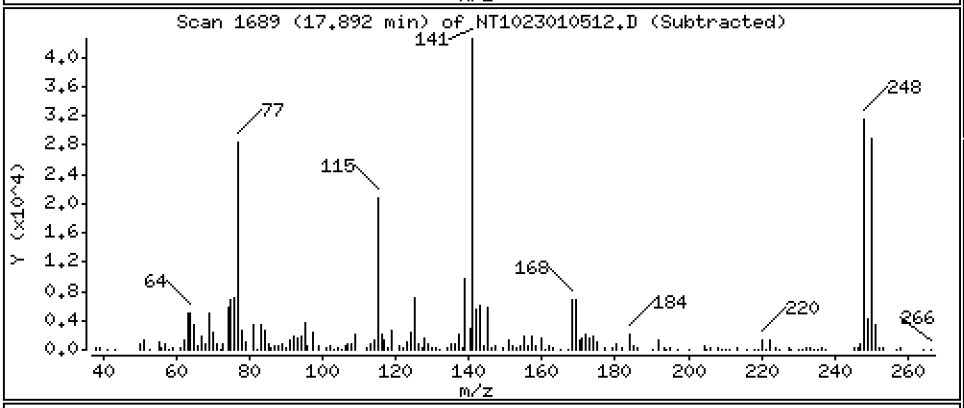
Column diameter: 0.25

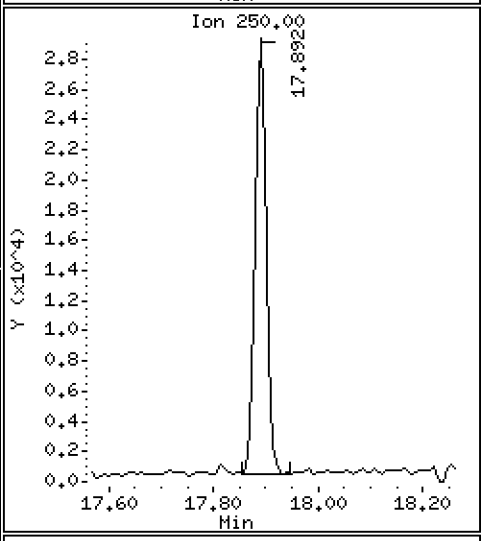
56 4-Bromophenyl-phenylether

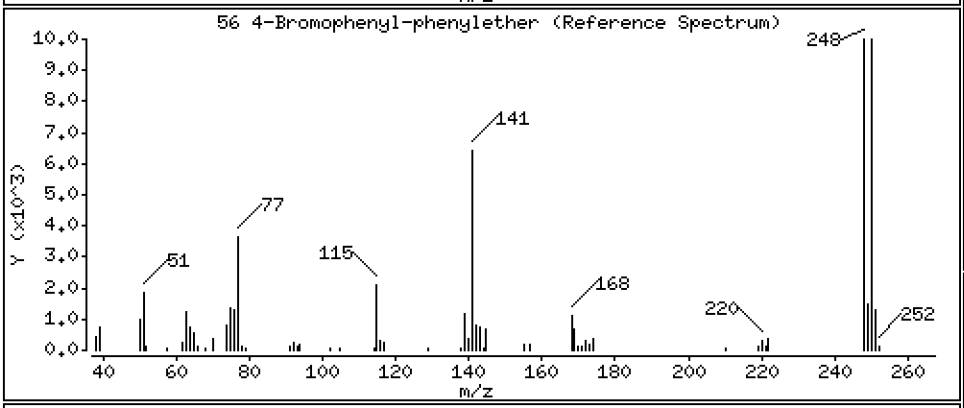
Concentration: 5.582 ug/mL

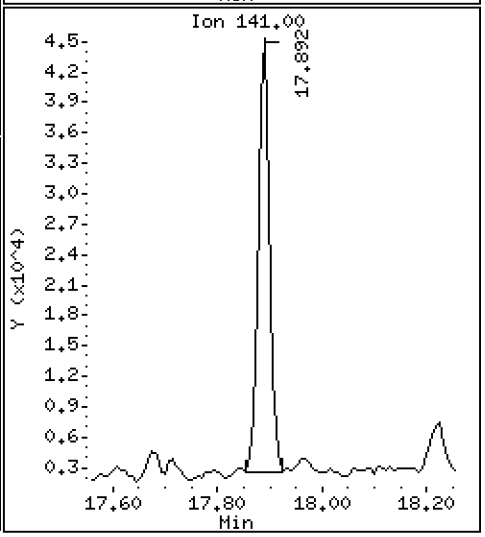


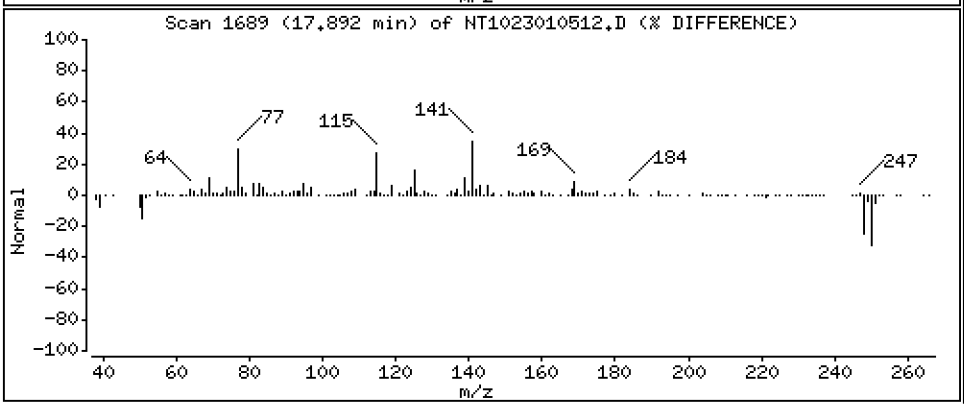












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

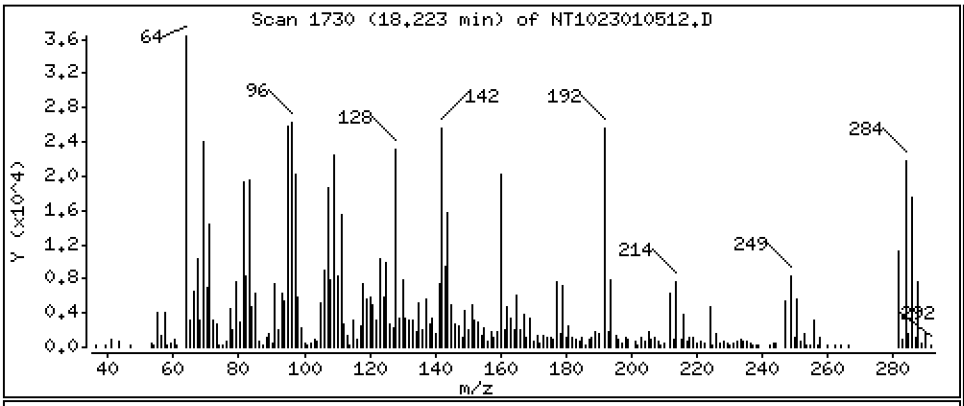
Operator: VTS

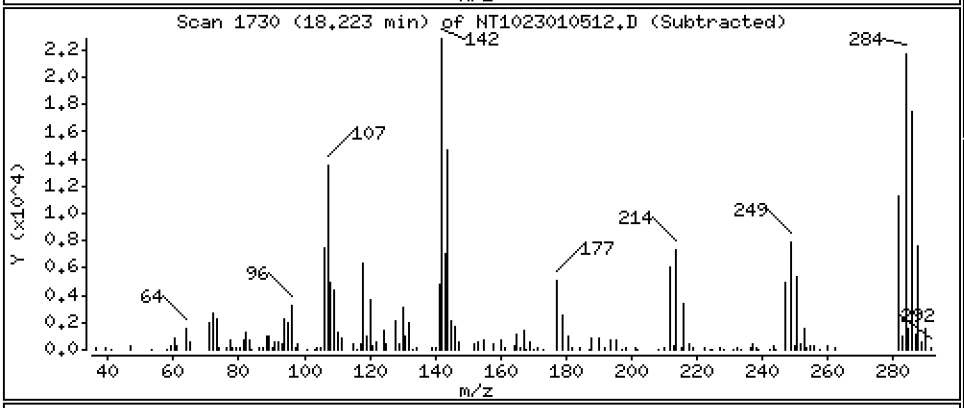
Column phase: ZB-5msi

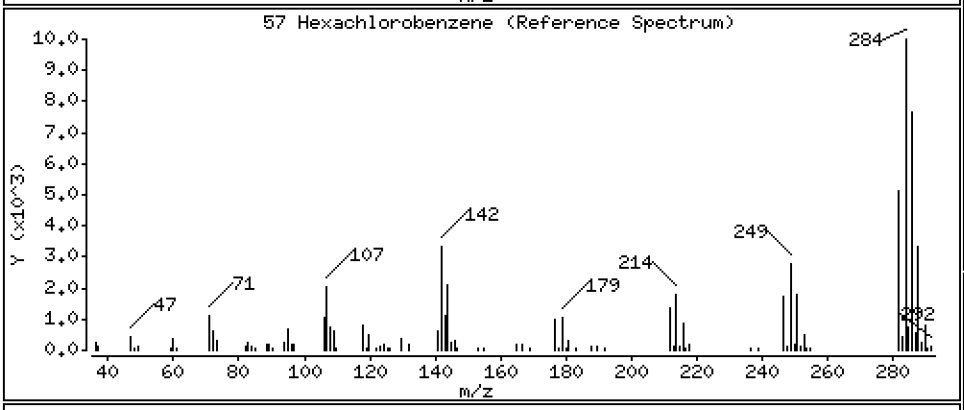
Column diameter: 0.25

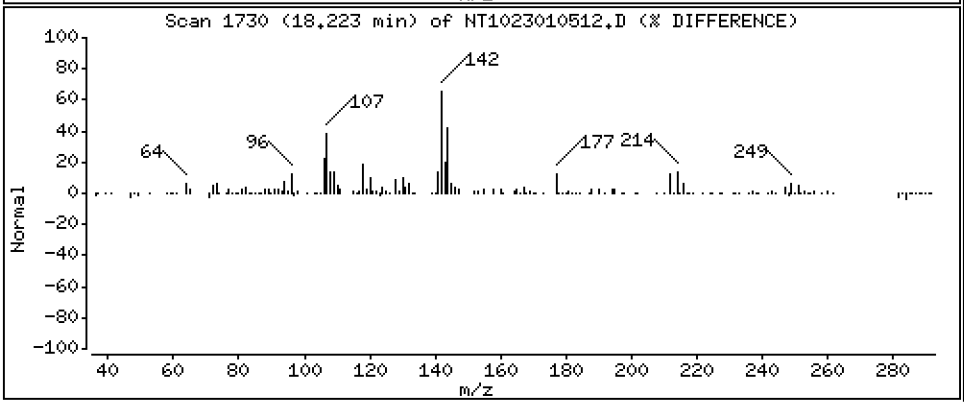
57 Hexachlorobenzene

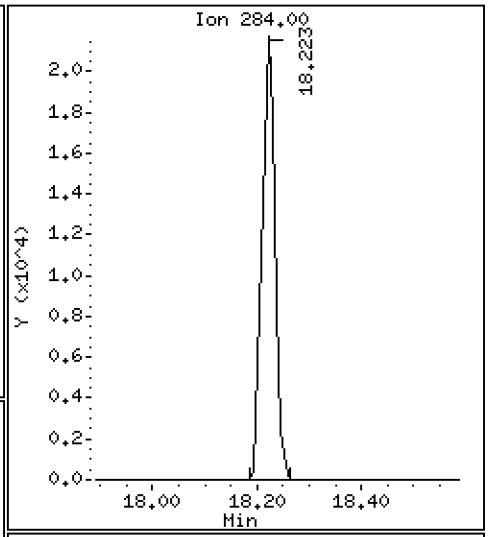
Concentration: 5.430 ug/mL

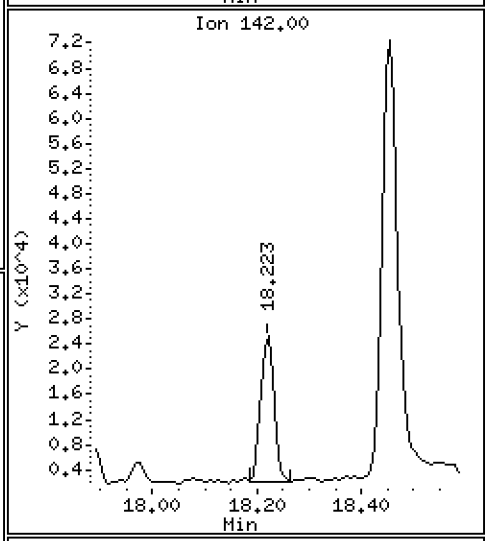


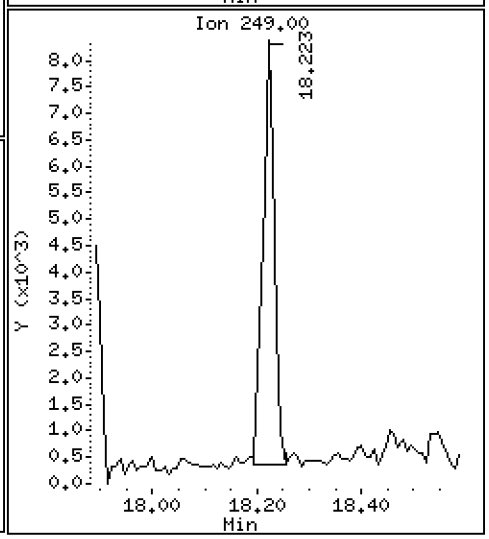












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

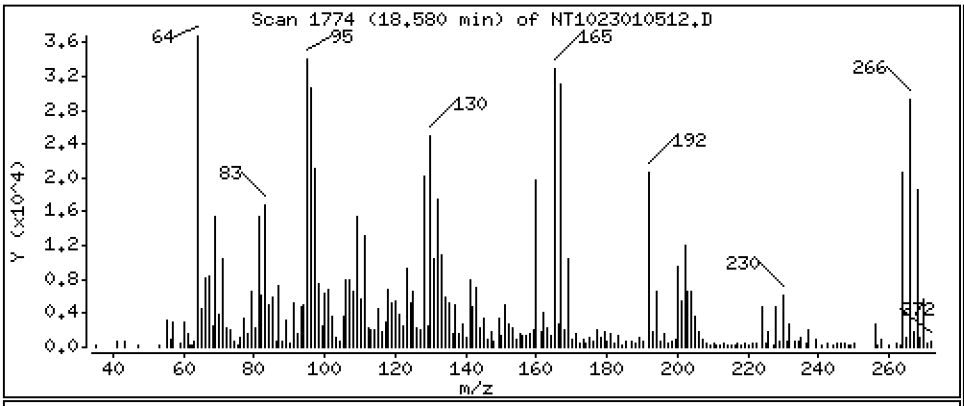
Operator: VTS

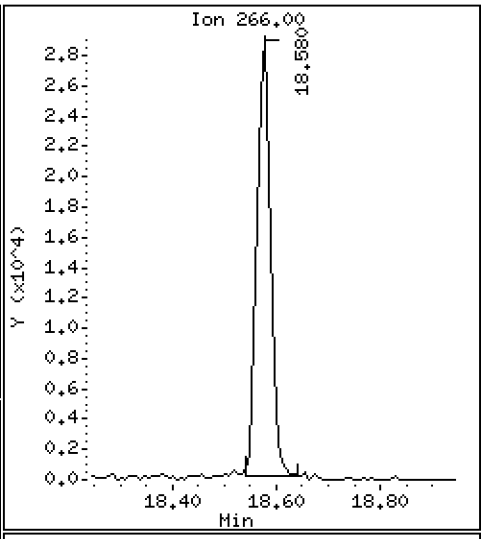
Column phase: ZB-5msi

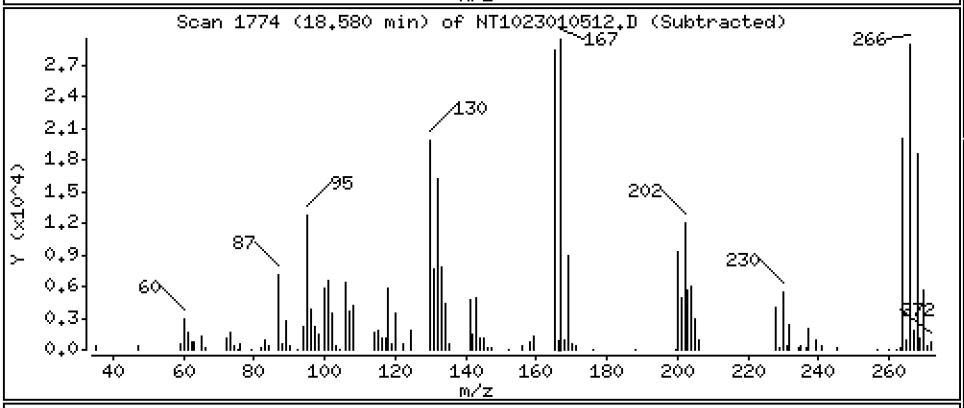
Column diameter: 0.25

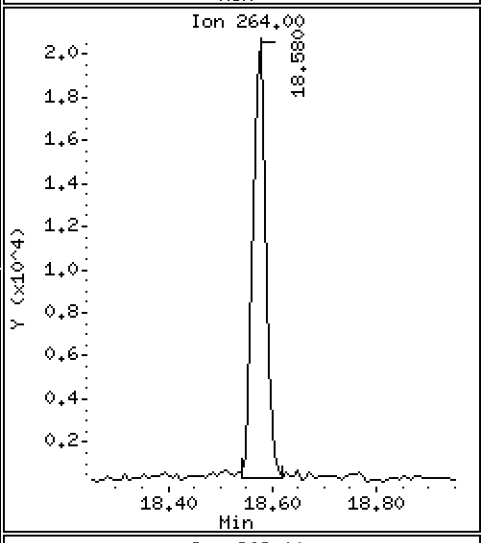
58 Pentachlorophenol

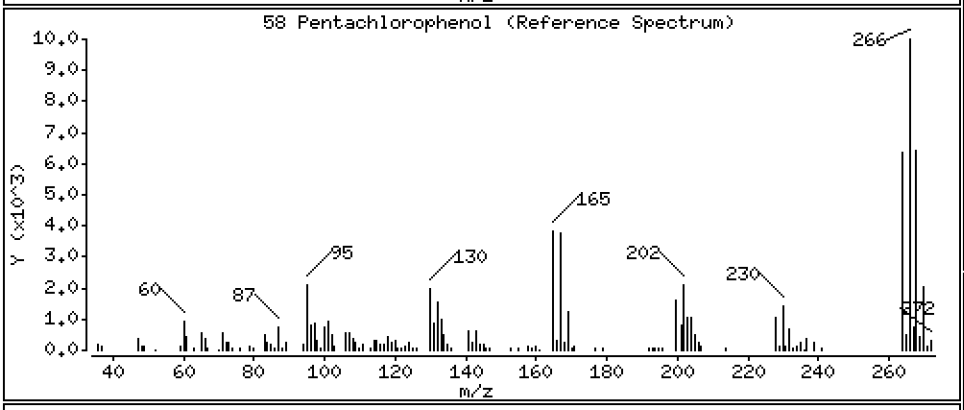
Concentration: 28.91 ug/mL

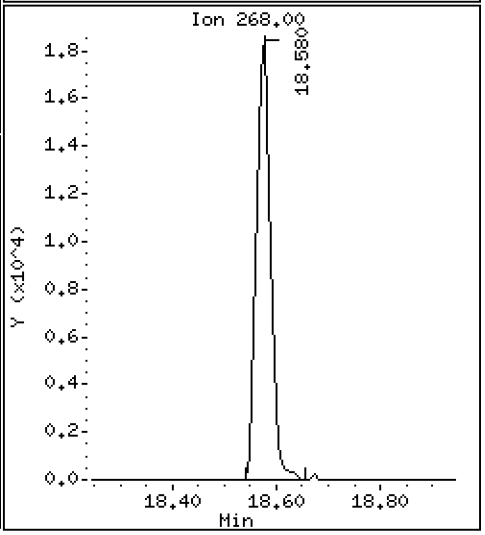


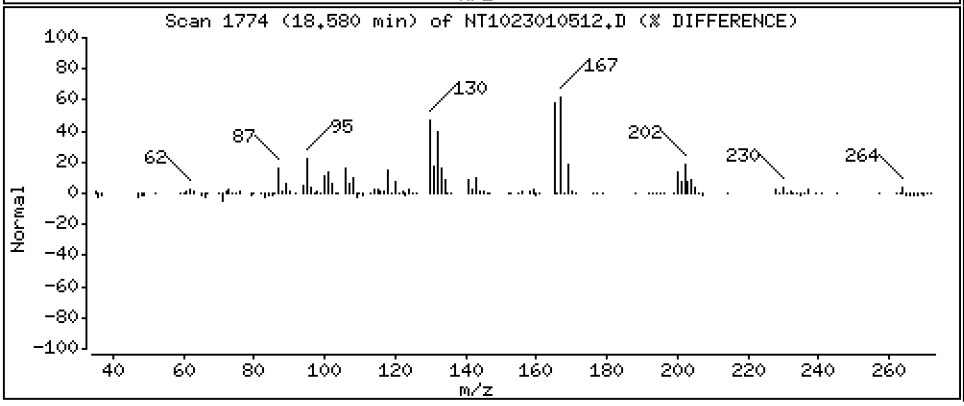












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

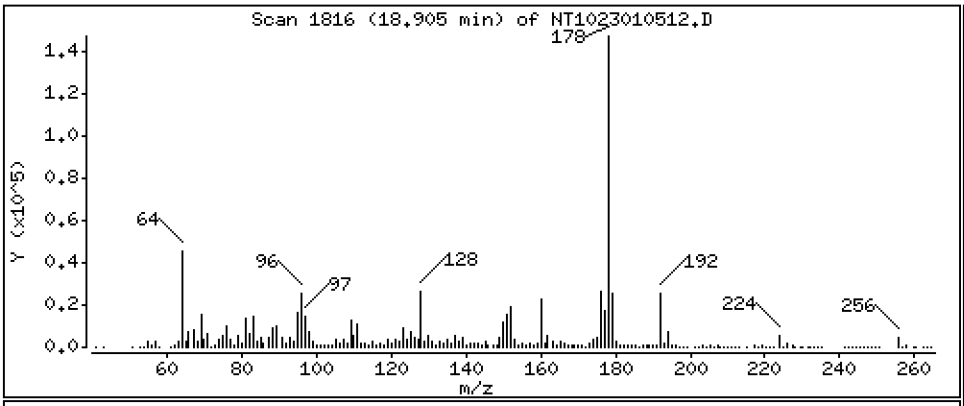
Operator: VTS

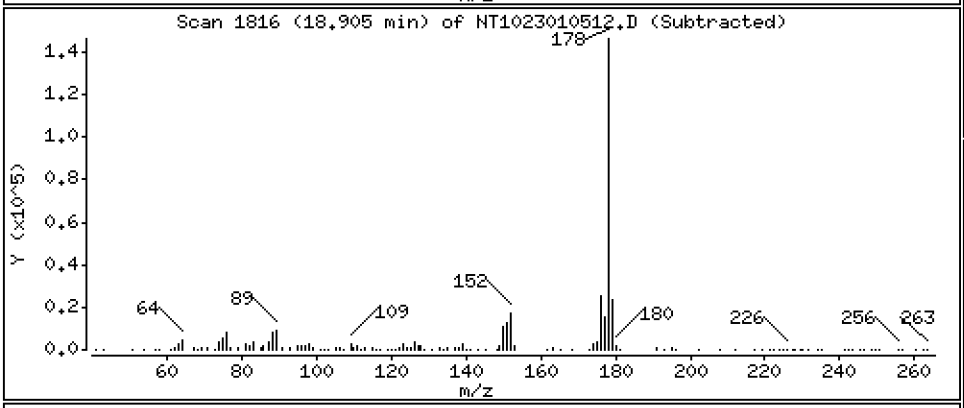
Column phase: ZB-5msi

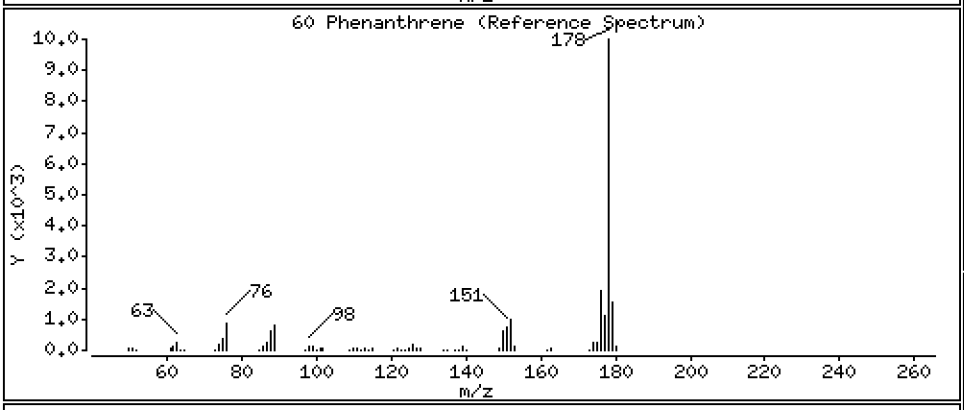
Column diameter: 0.25

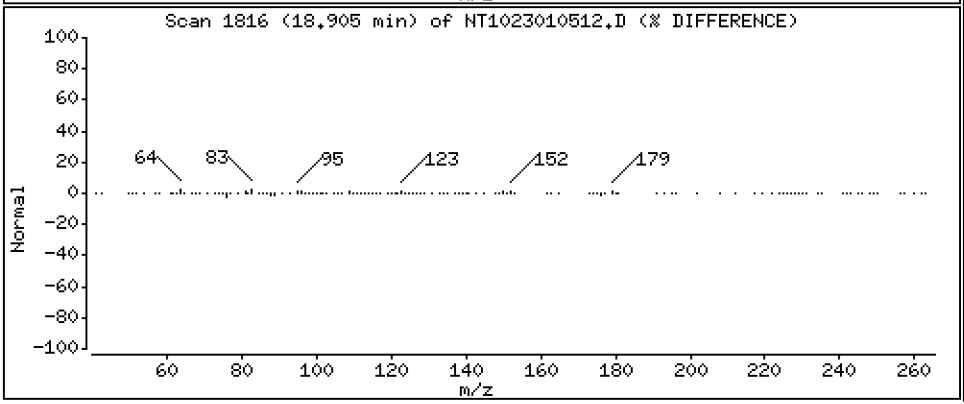
60 Phenanthrene

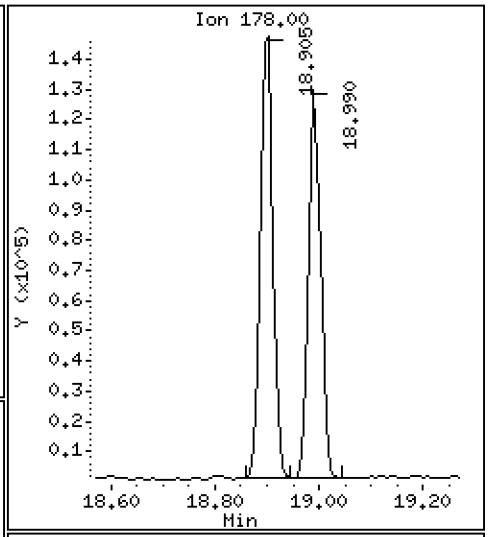
Concentration: 5.865 ug/mL

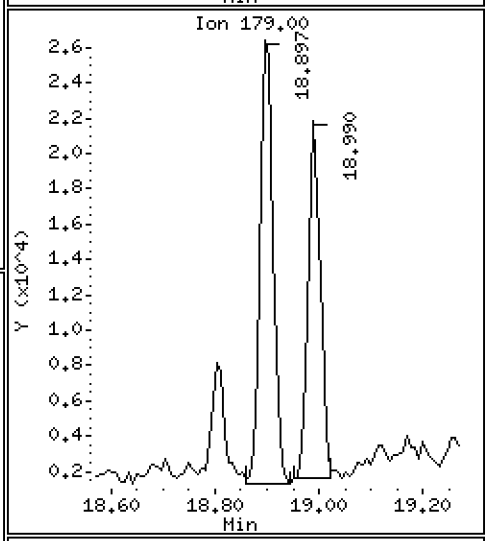


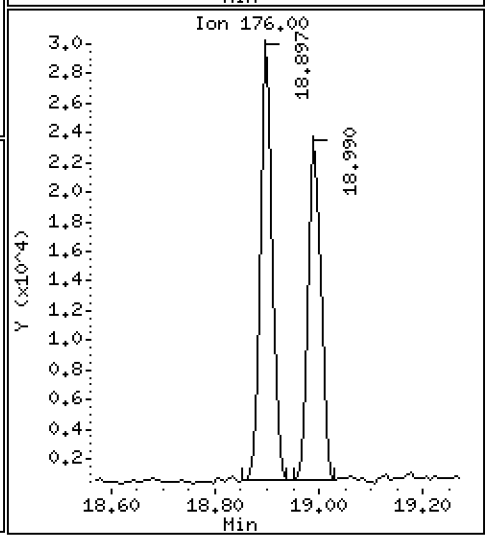












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

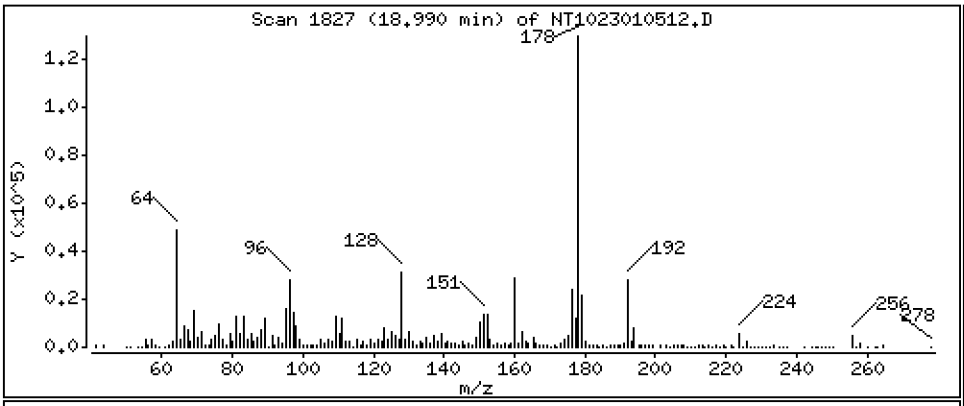
Operator: VTS

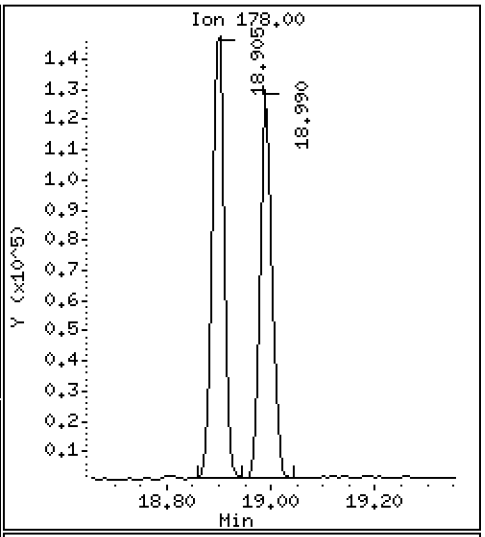
Column phase: ZB-5msi

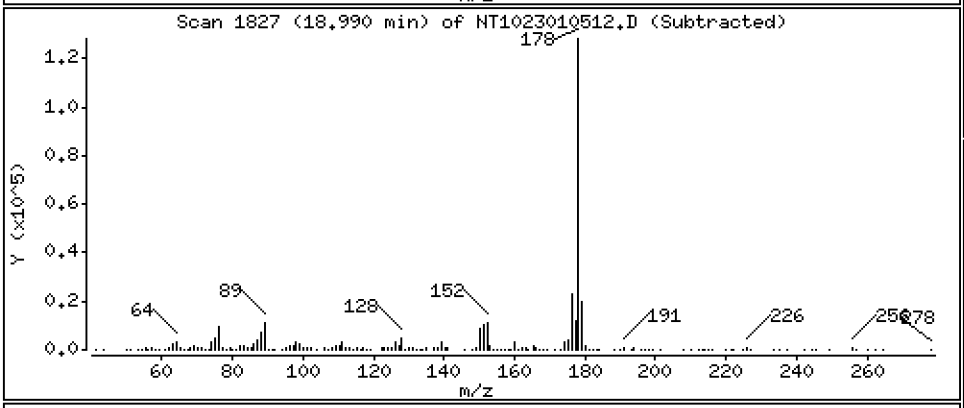
Column diameter: 0.25

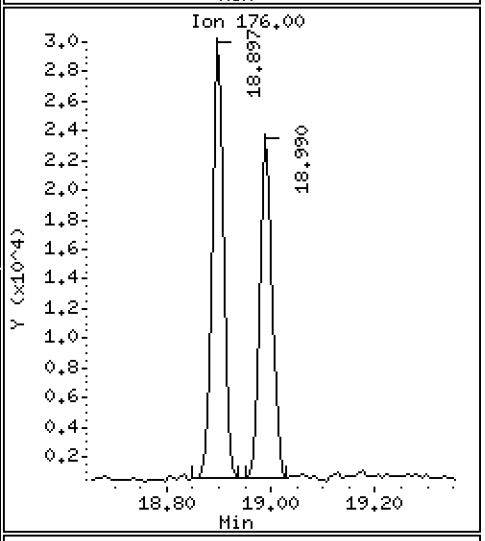
61 Anthracene

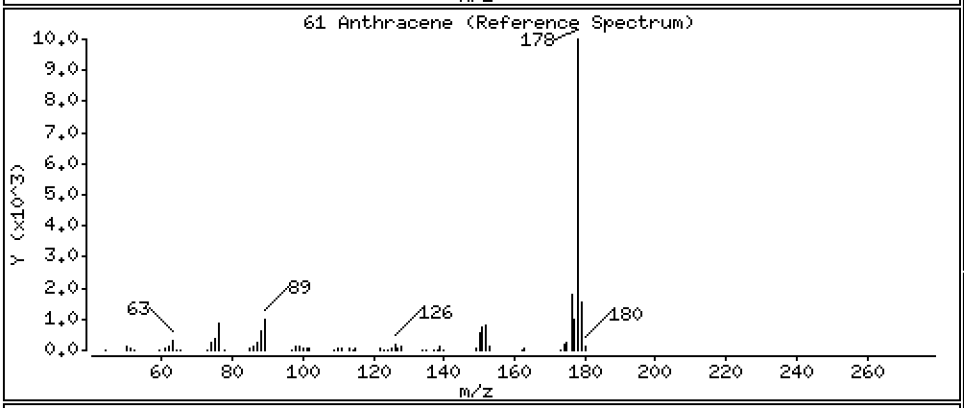
Concentration: 4.925 ug/mL

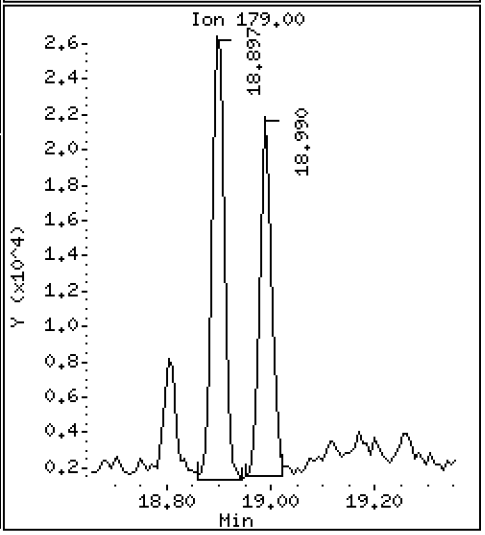


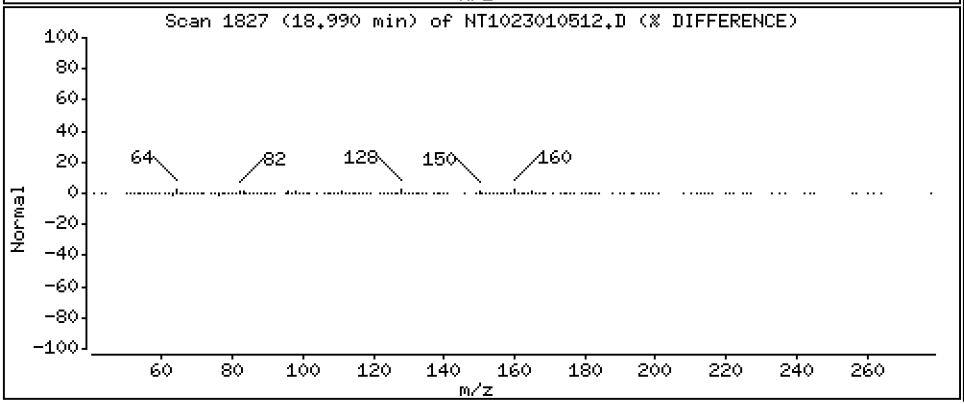












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

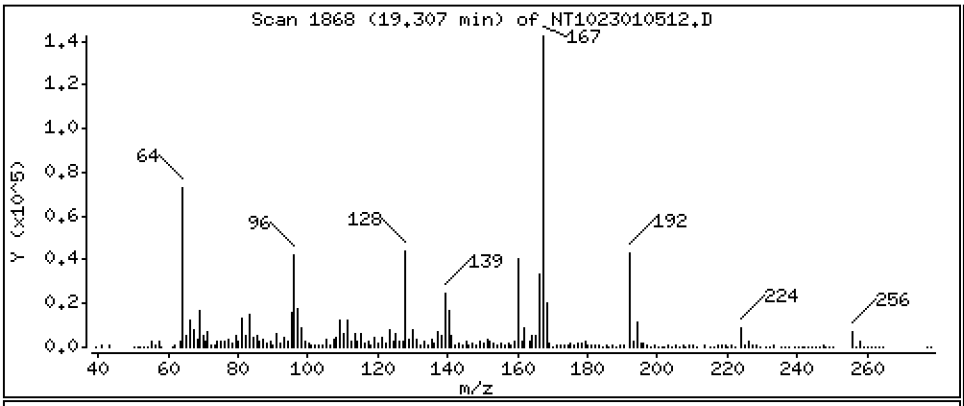
Operator: VTS

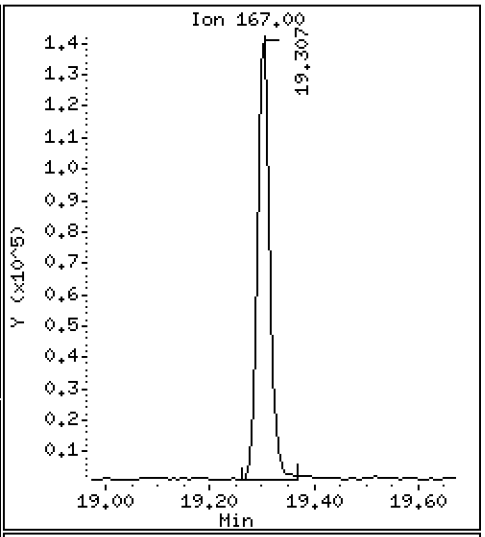
Column phase: ZB-5msi

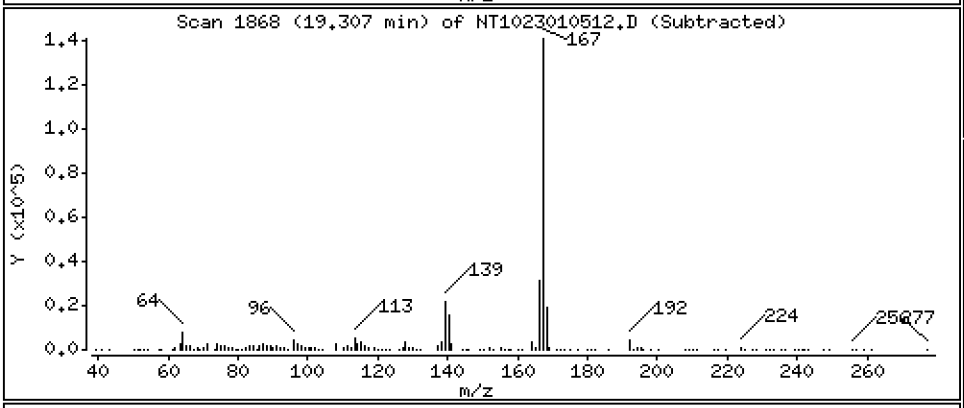
Column diameter: 0.25

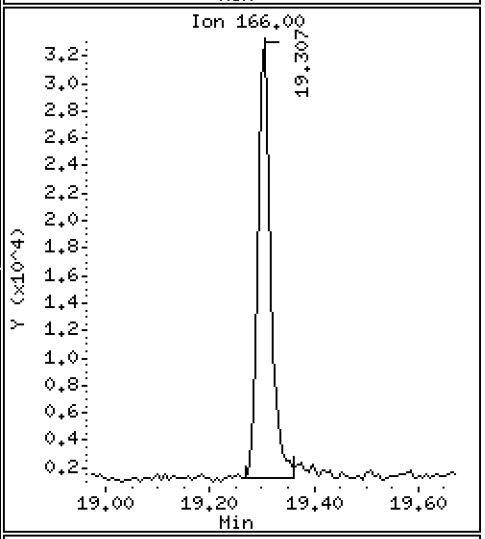
62 Carbazole

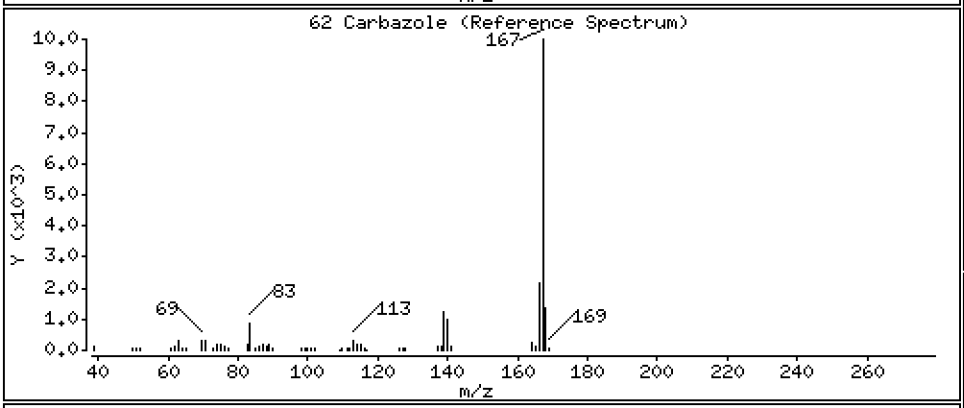
Concentration: 5.341 ug/mL

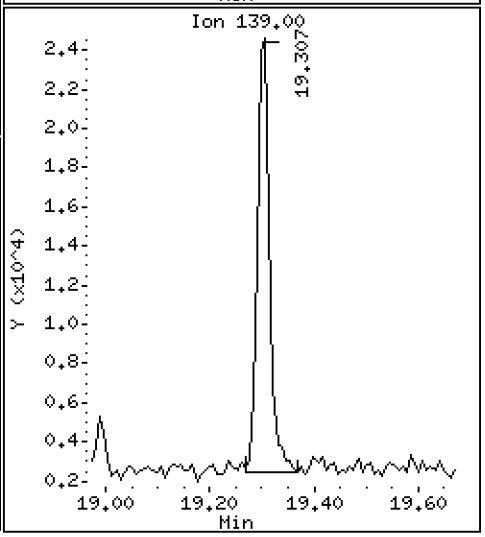


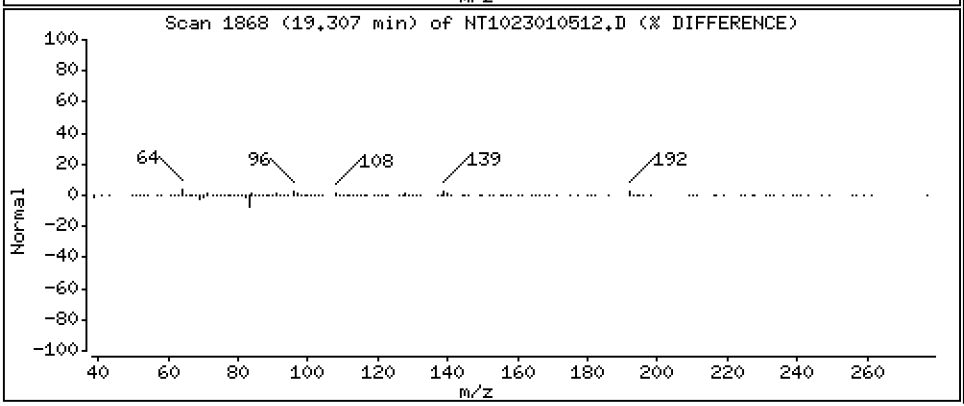












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

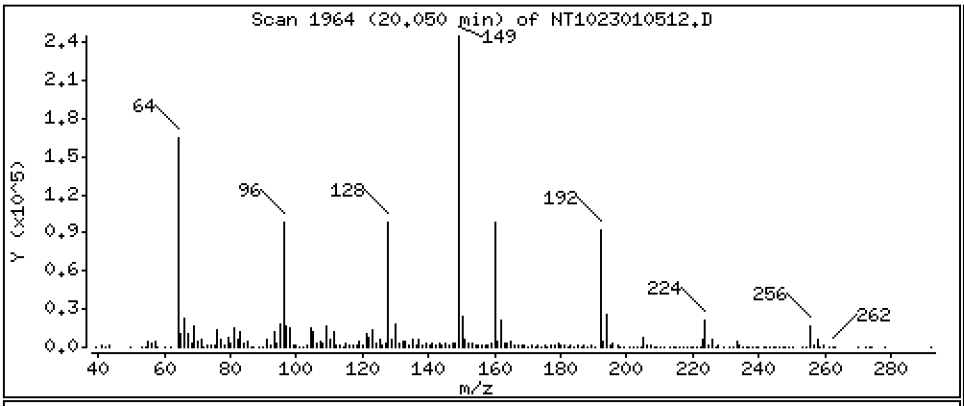
Operator: VTS

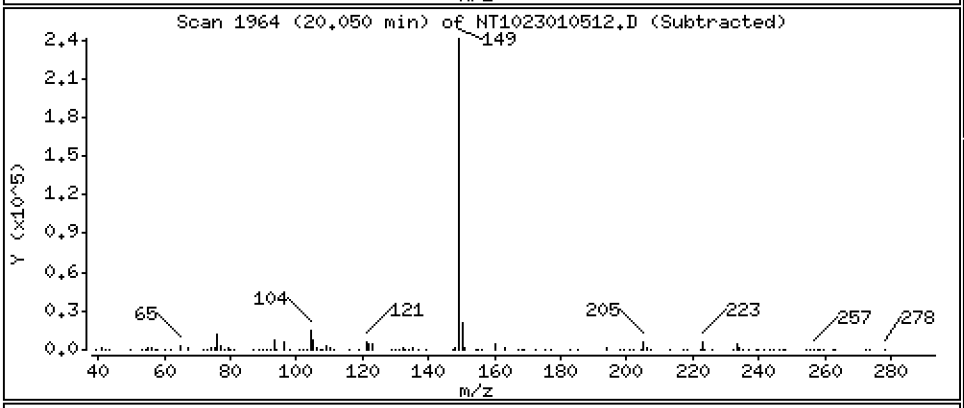
Column phase: ZB-5msi

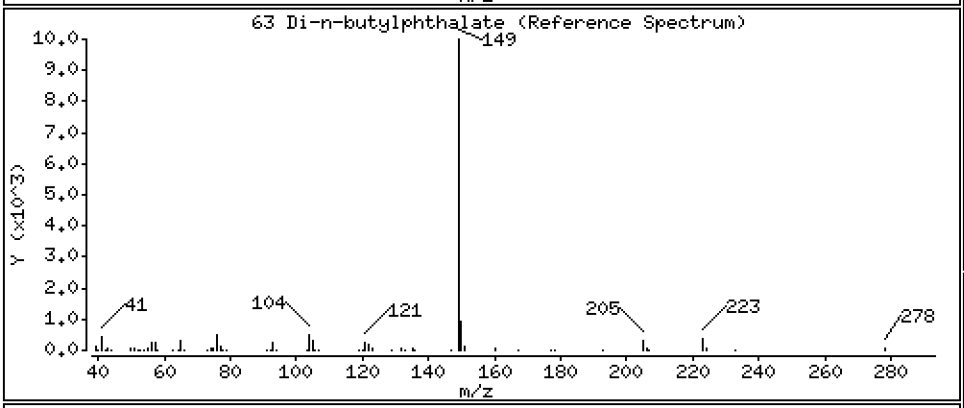
Column diameter: 0.25

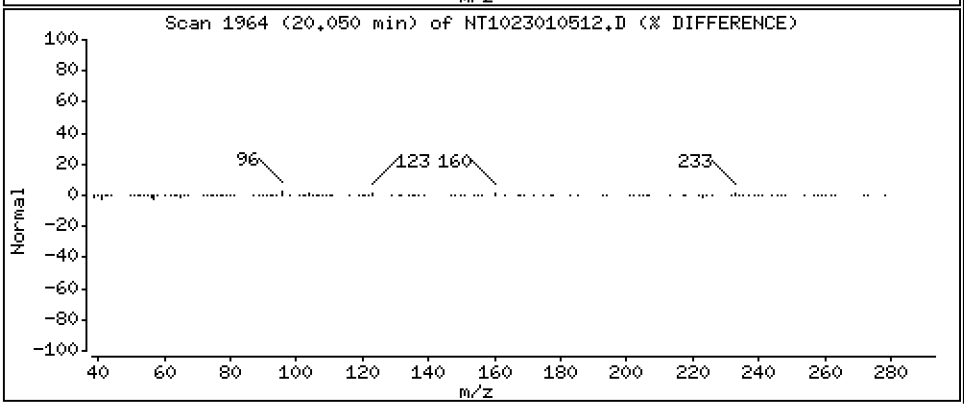
63 Di-n-butylphthalate

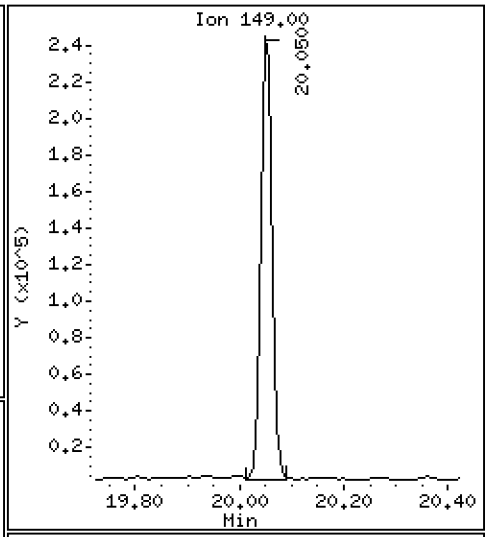
Concentration: 5.968 ug/mL

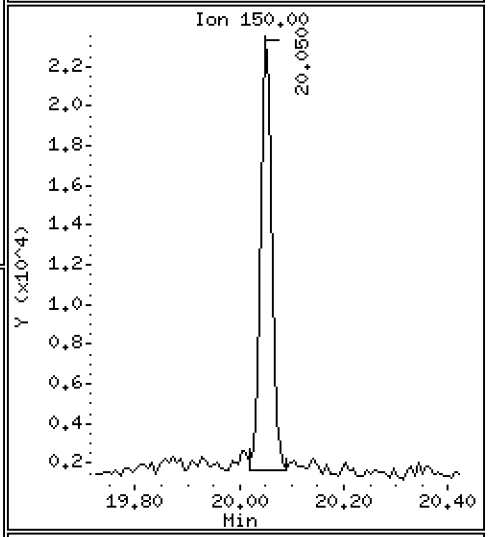


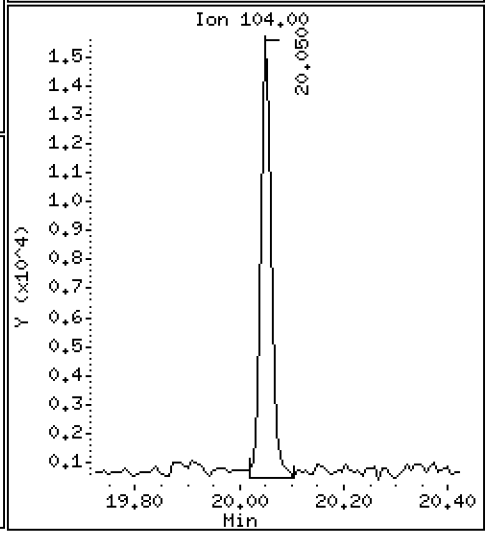












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

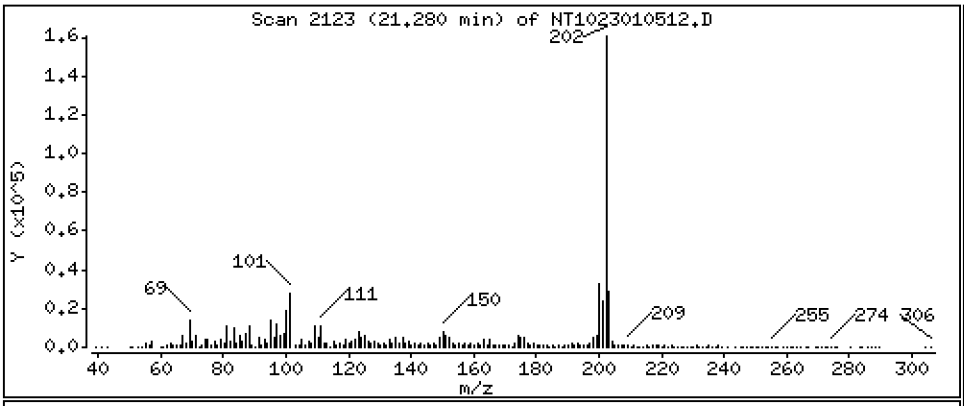
Operator: VTS

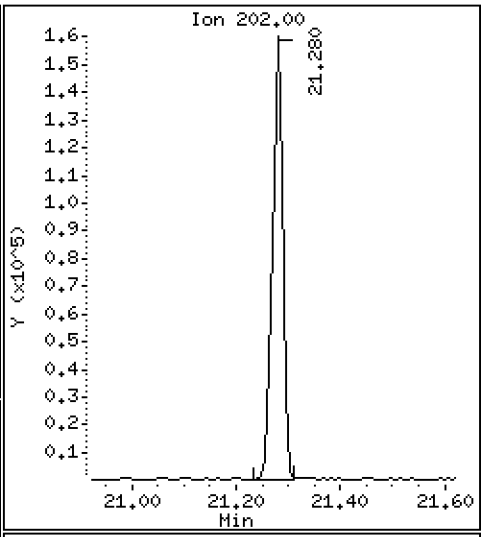
Column phase: ZB-5msi

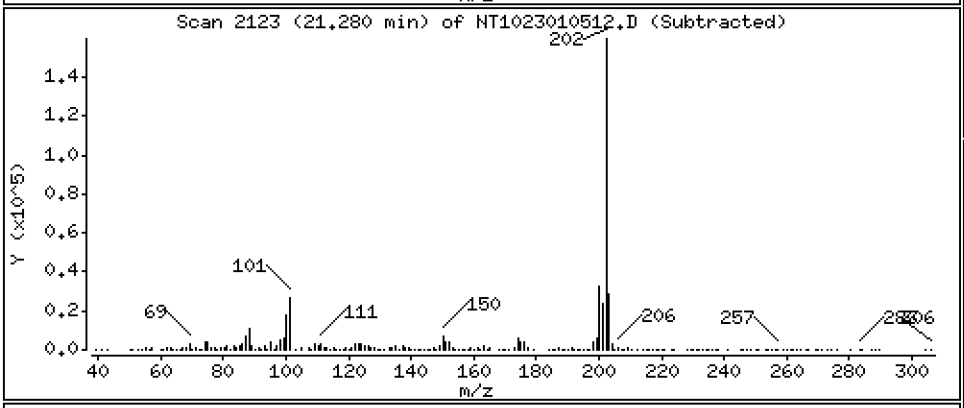
Column diameter: 0.25

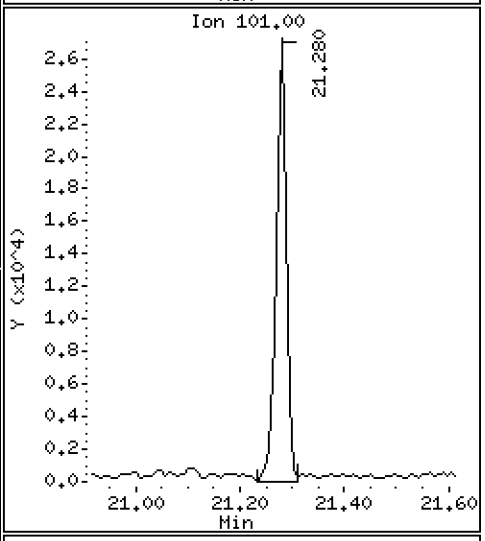
64 Fluoranthene

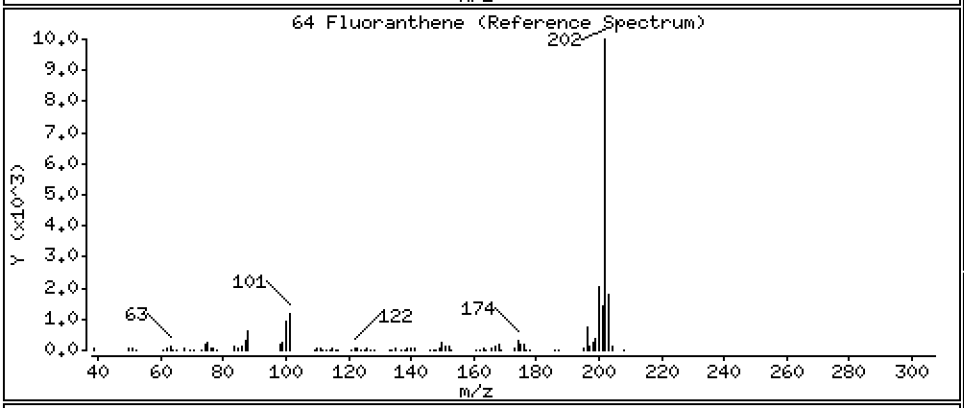
Concentration: 4.679 ug/mL

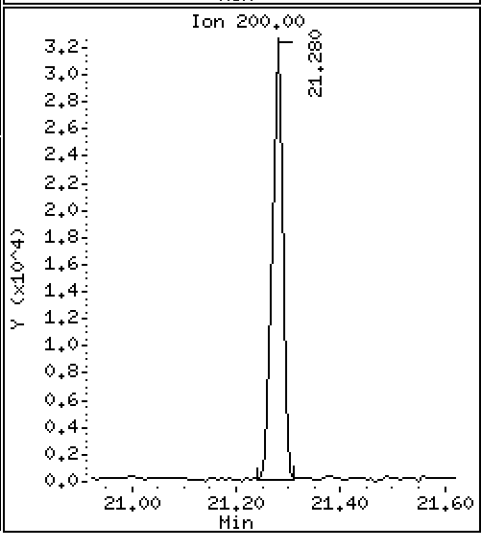


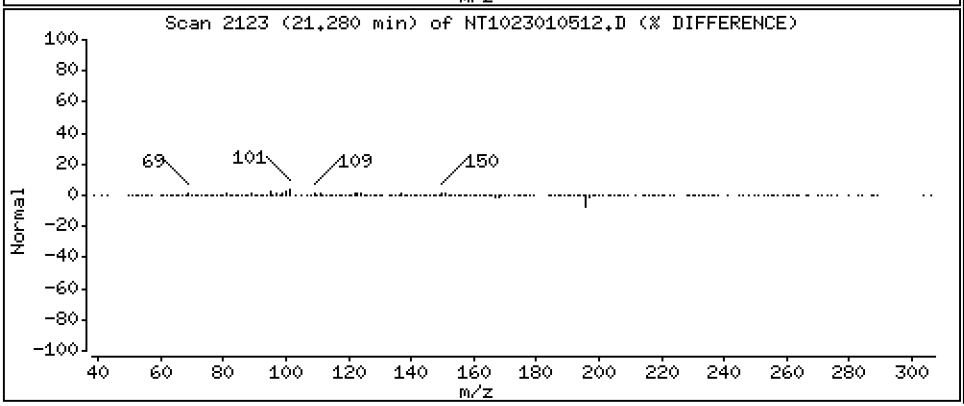












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

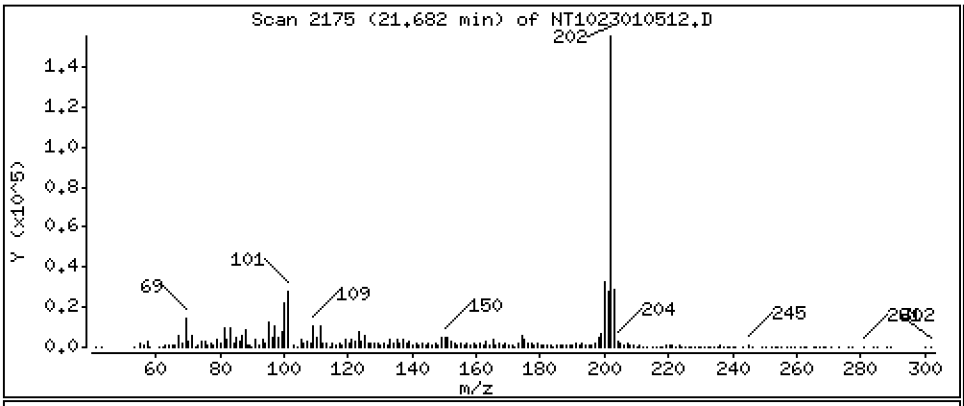
Operator: VTS

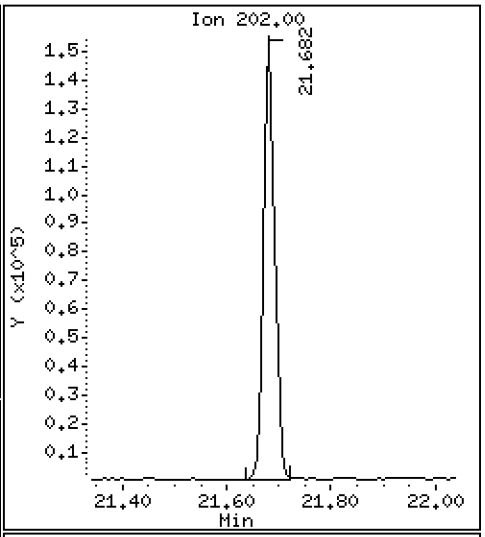
Column phase: ZB-5msi

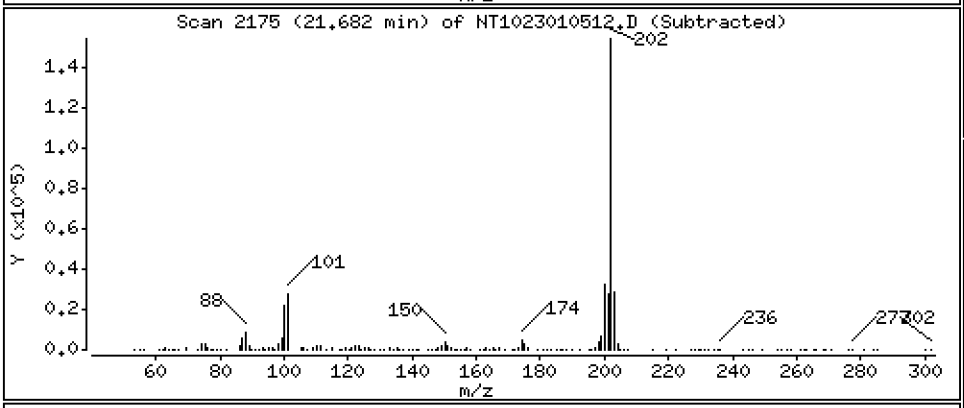
Column diameter: 0.25

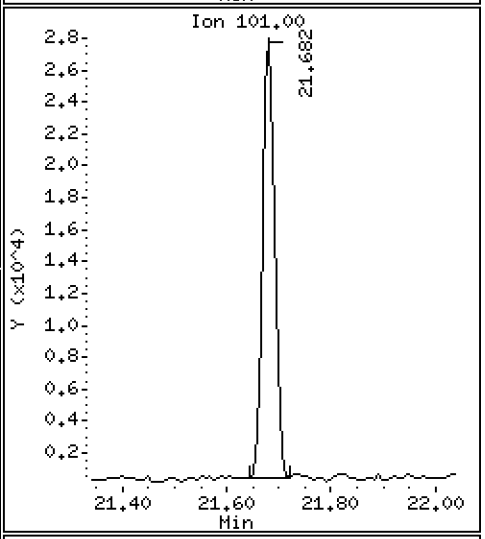
65 Pyrene

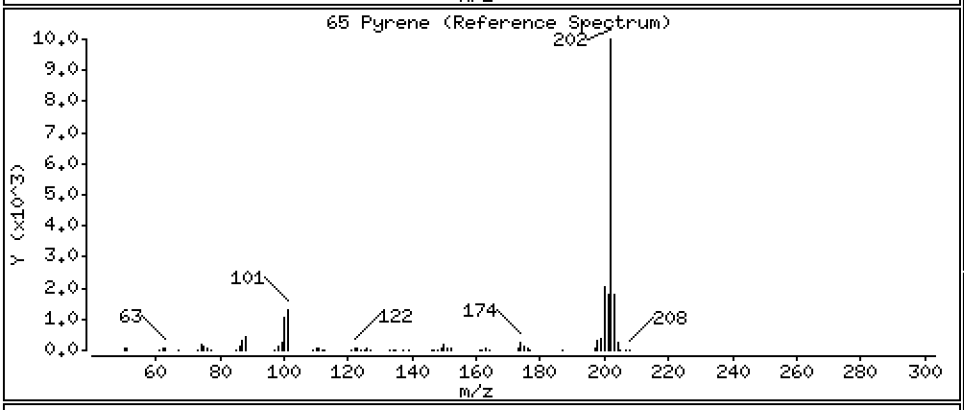
Concentration: 4.831 ug/mL

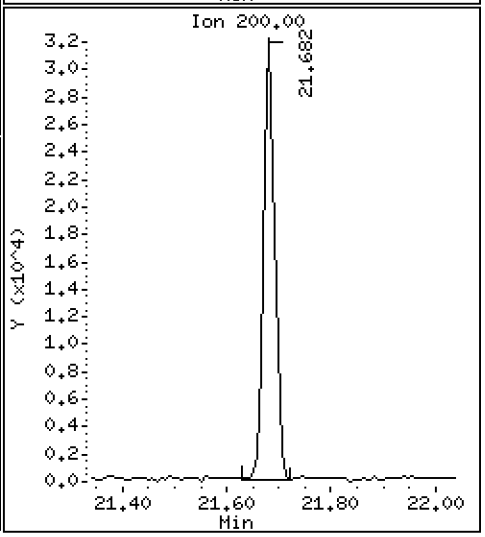


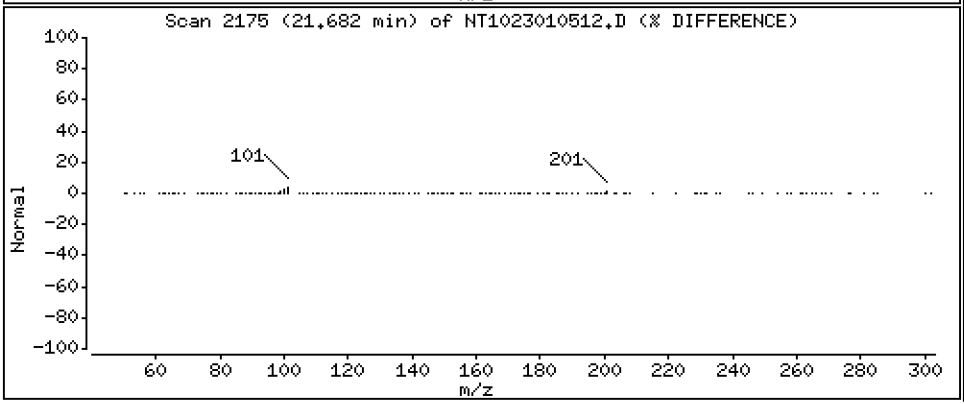












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

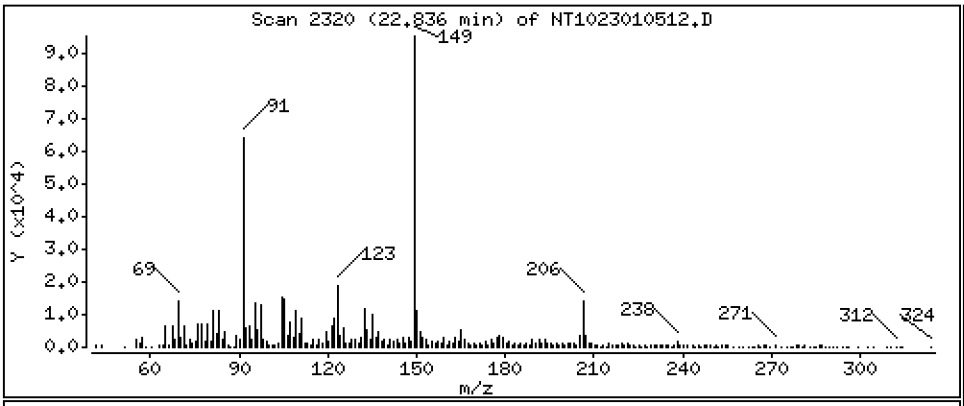
Operator: VTS

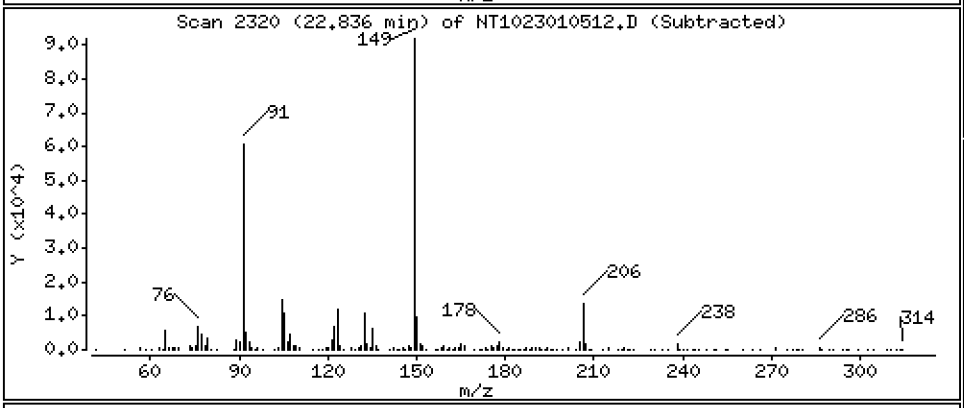
Column phase: ZB-5msi

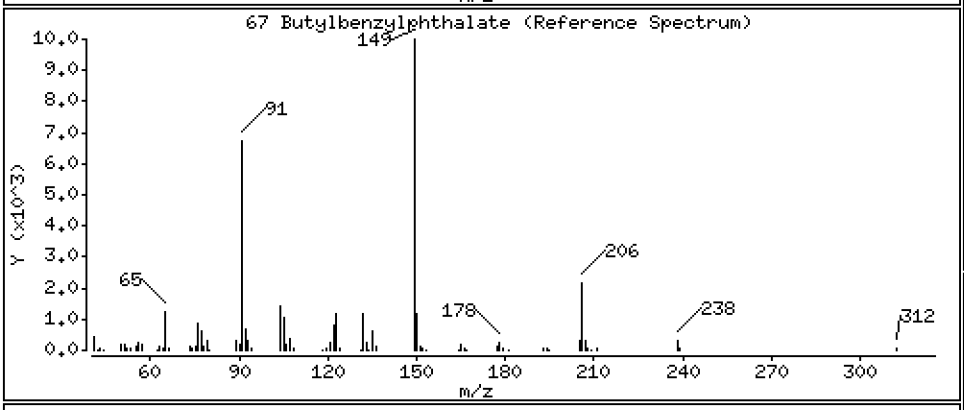
Column diameter: 0.25

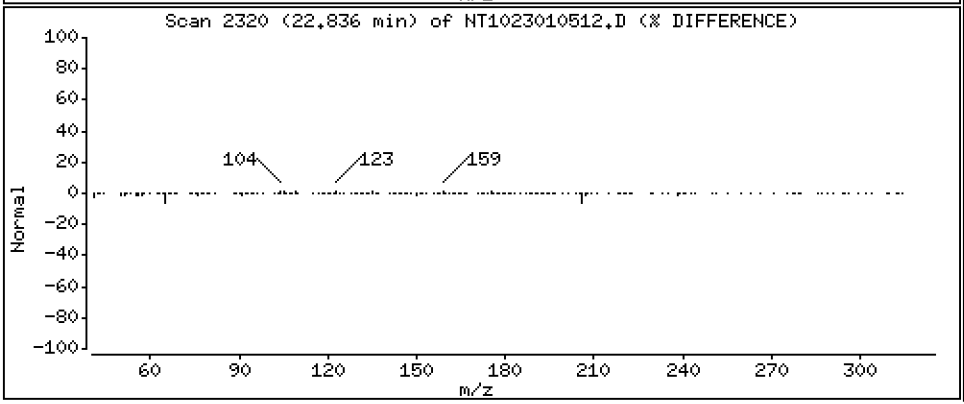
67 Butylbenzylphthalate

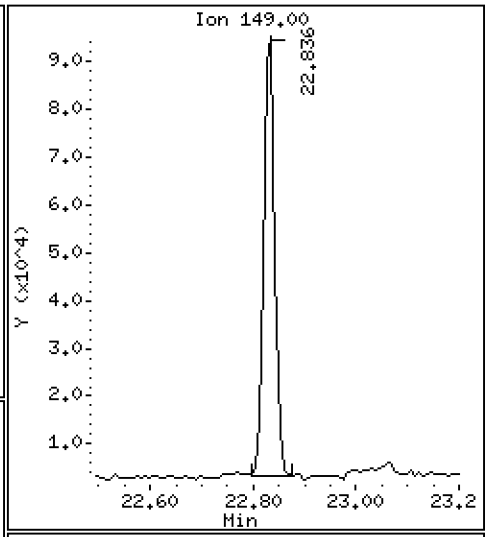
Concentration: 5.374 ug/mL

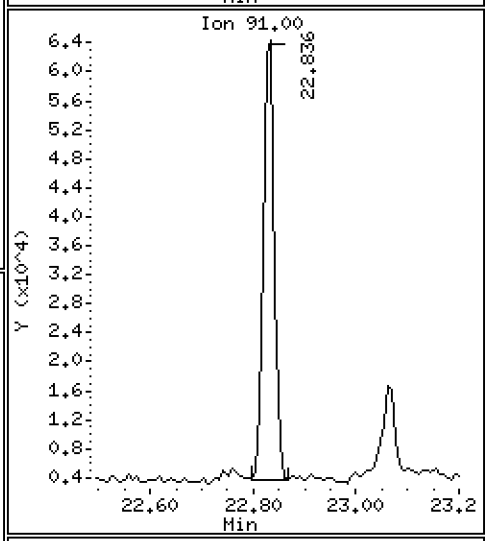


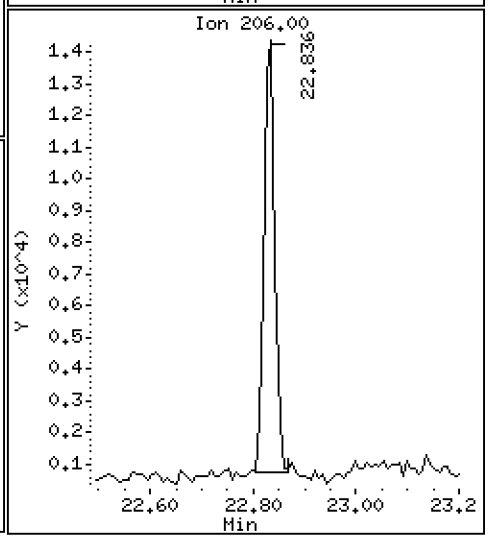












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

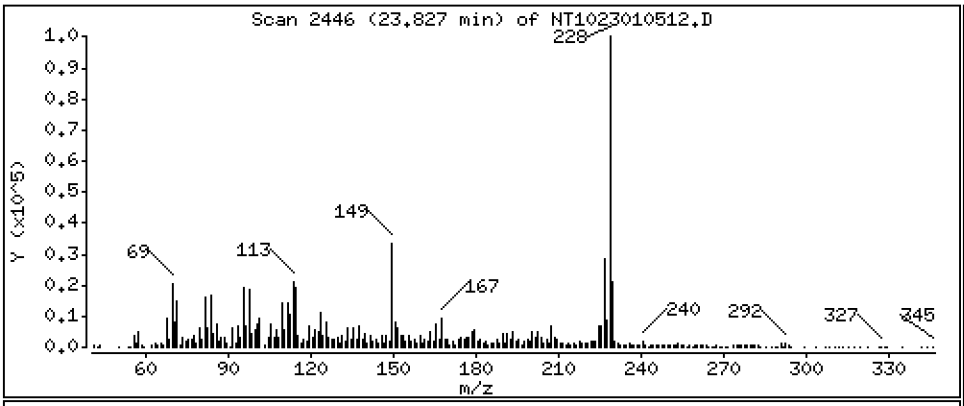
Operator: VTS

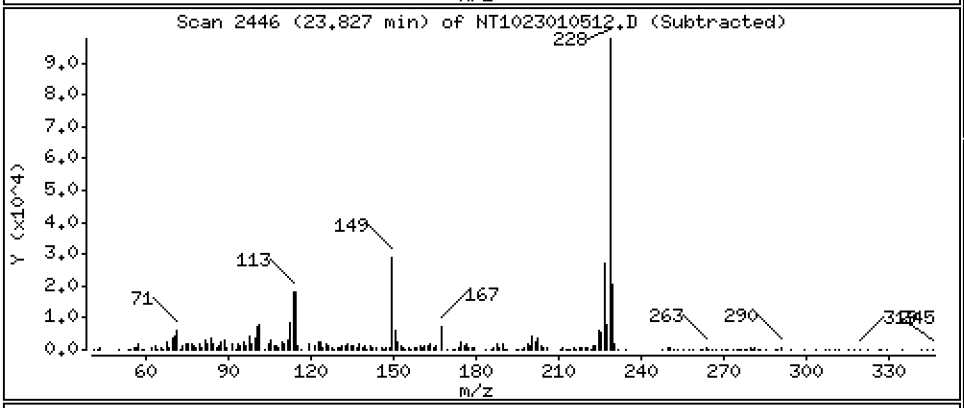
Column phase: ZB-5msi

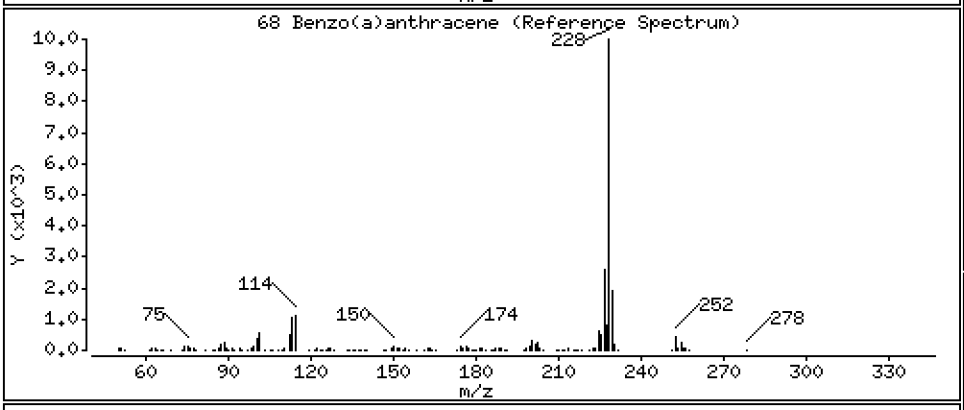
Column diameter: 0.25

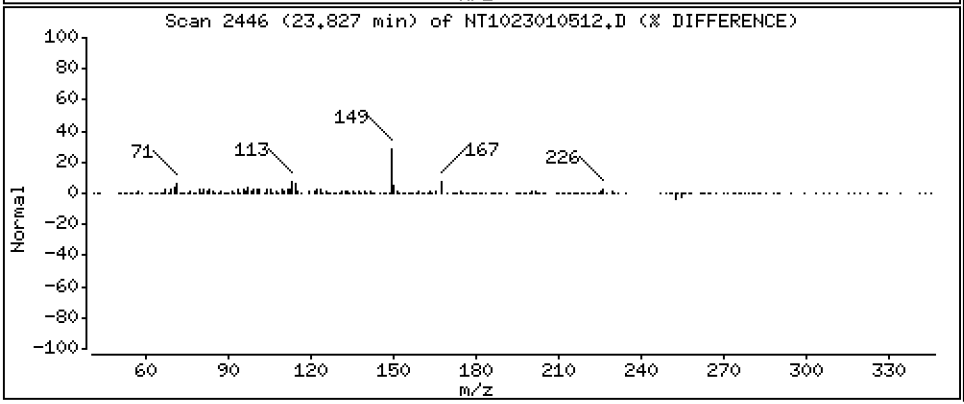
68 Benzo(a)anthracene

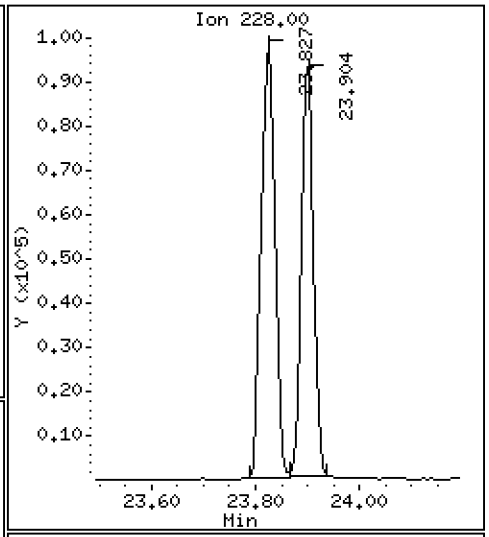
Concentration: 5.437 ug/mL

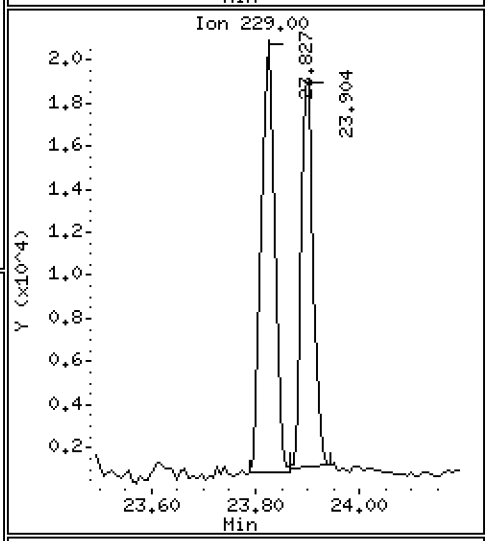


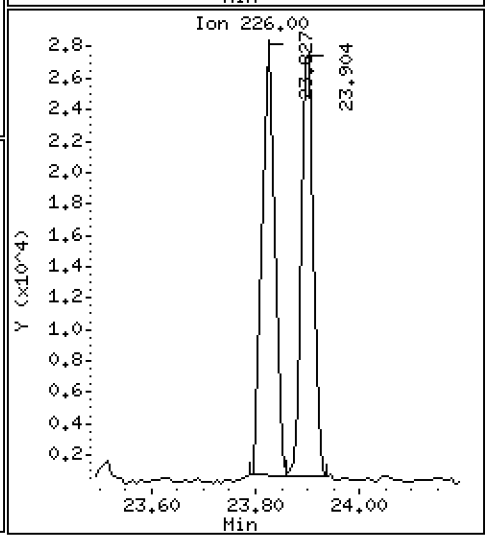












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

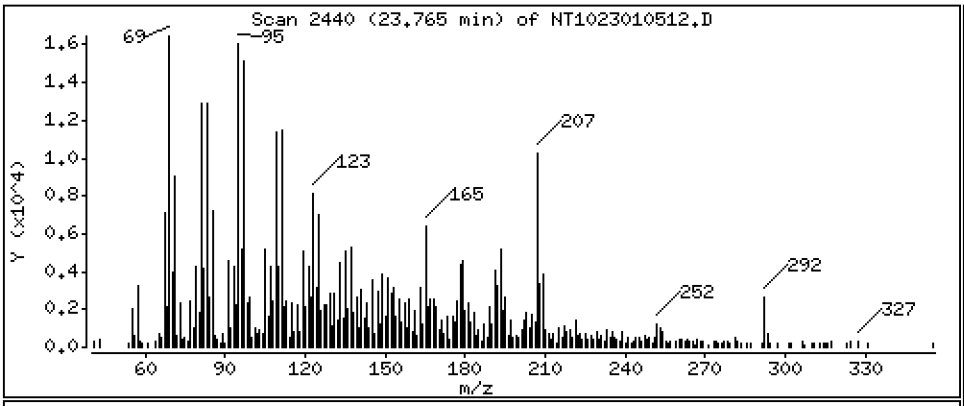
Operator: VTS

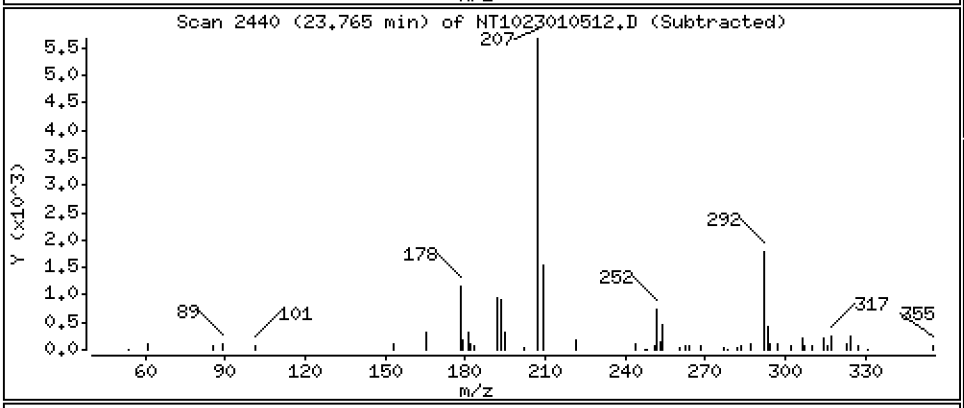
Column phase: ZB-5msi

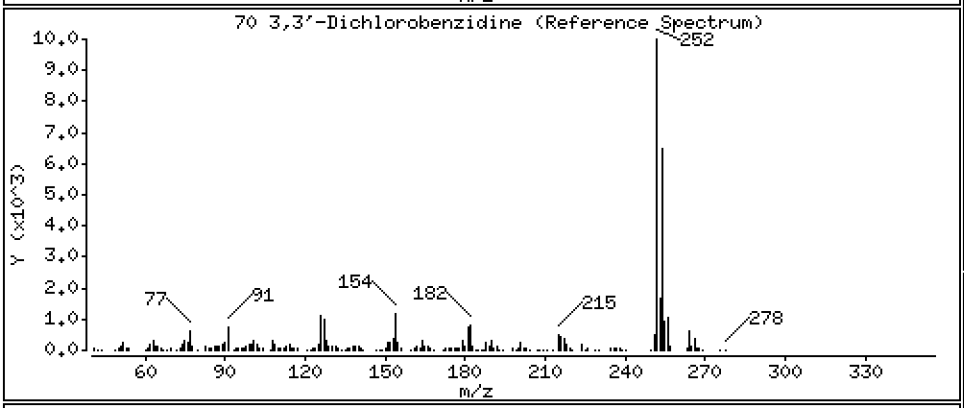
Column diameter: 0.25

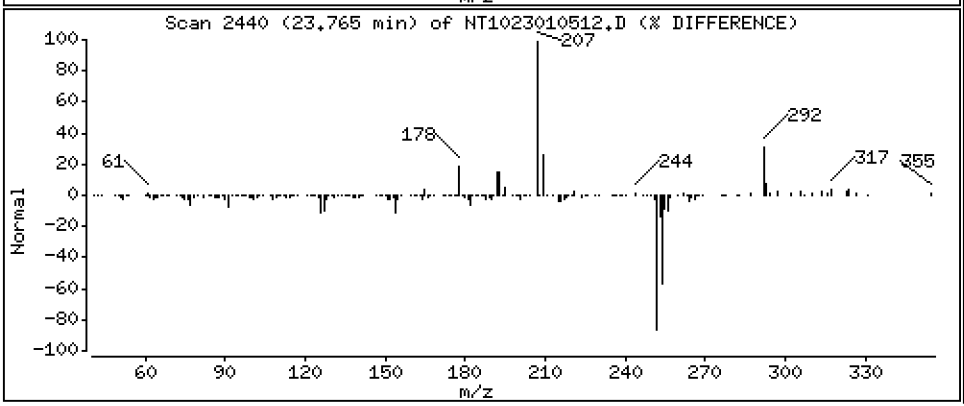
70 3,3'-Dichlorobenzidine

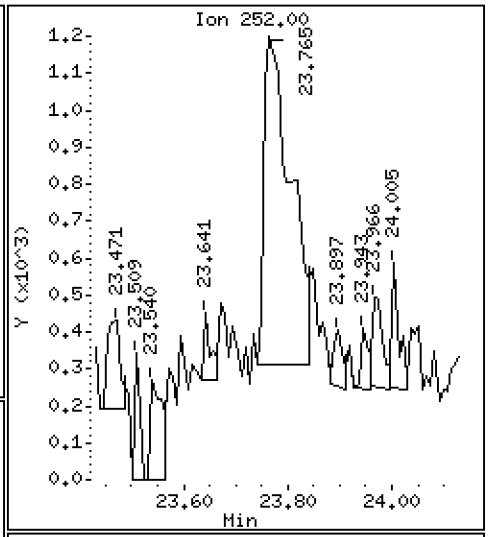
Concentration: 0.2921 ug/mL

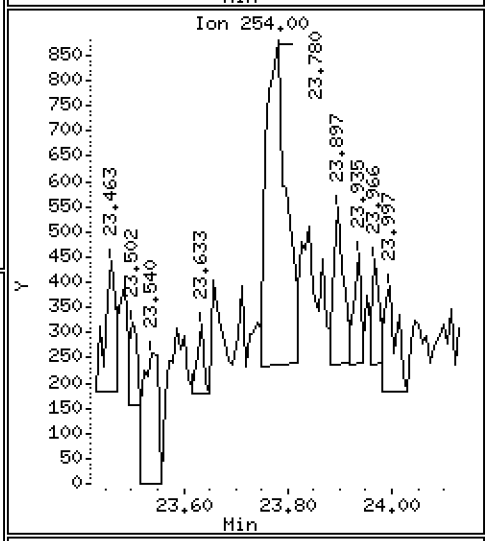


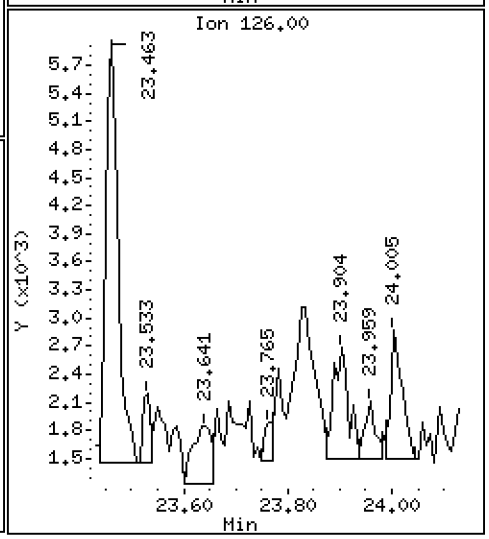












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

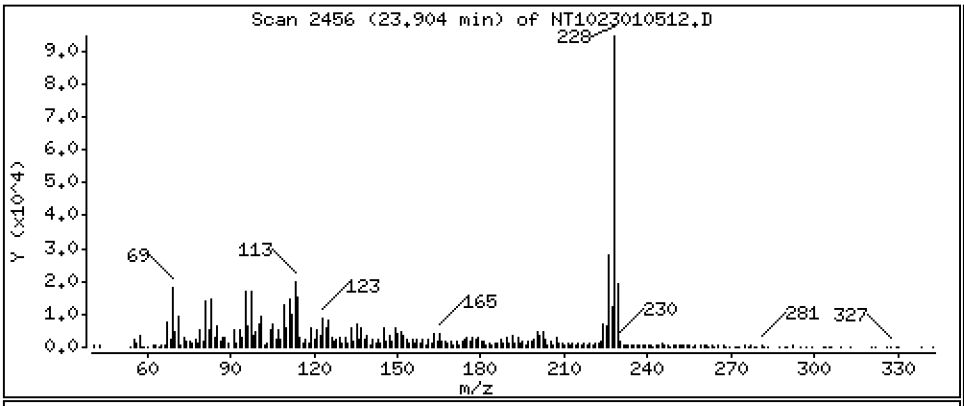
Operator: VTS

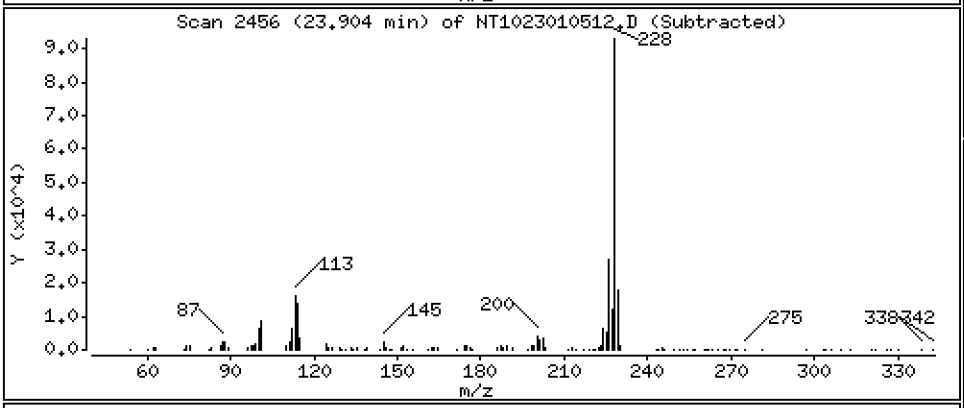
Column phase: ZB-5msi

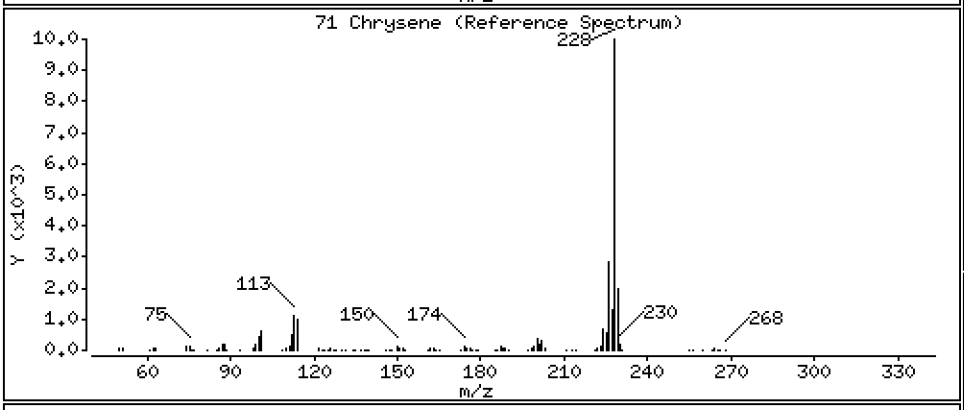
Column diameter: 0.25

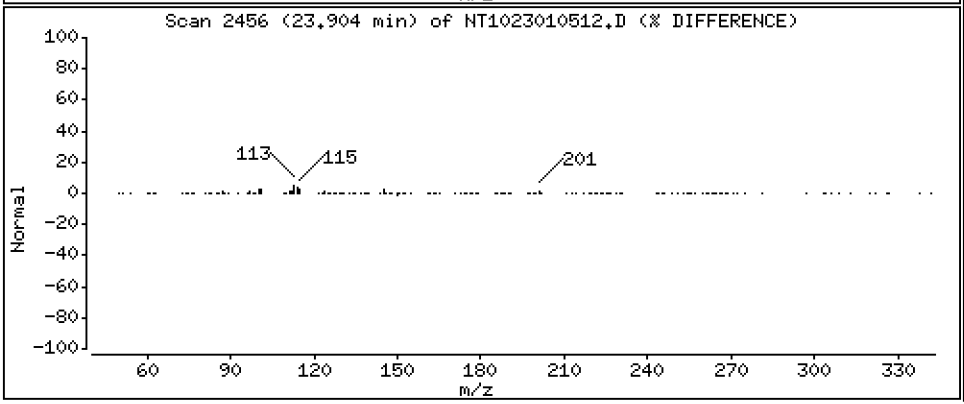
71 Chrysene

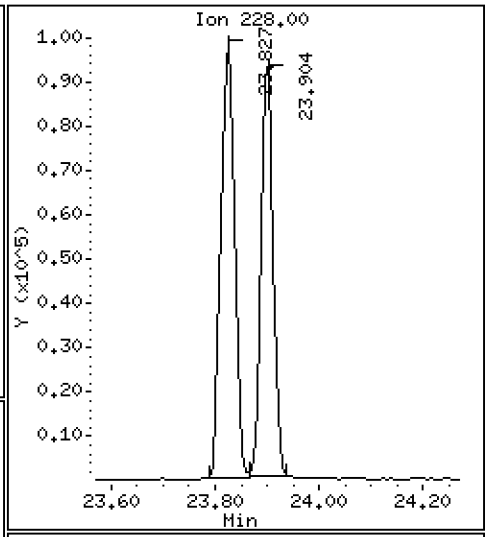
Concentration: 5.503 ug/mL

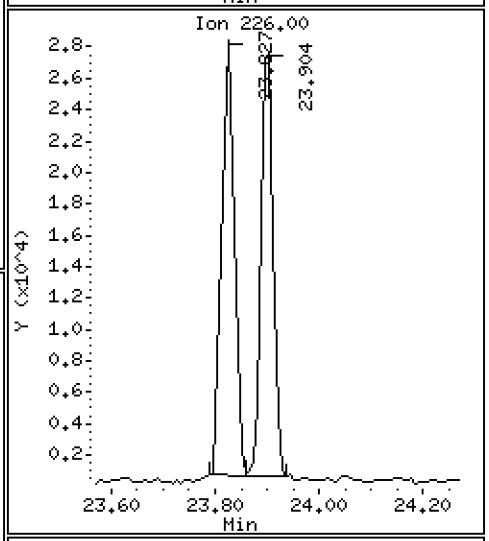


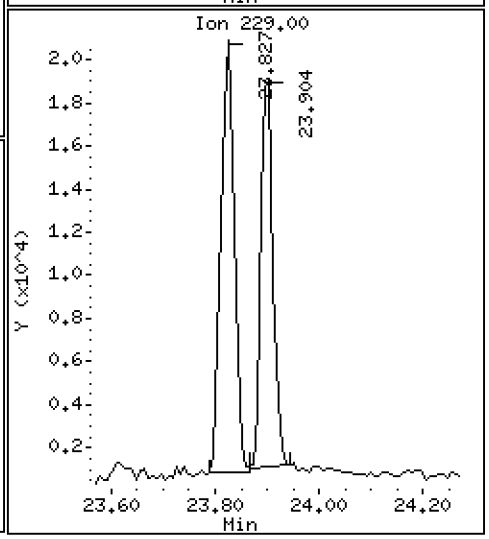












Date : 05-JAN-2023 20:26

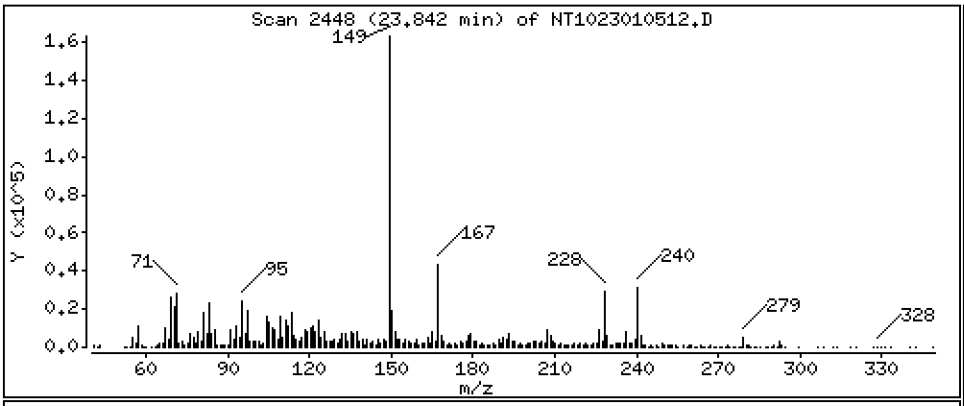
Client ID: Instrument: nt10.i

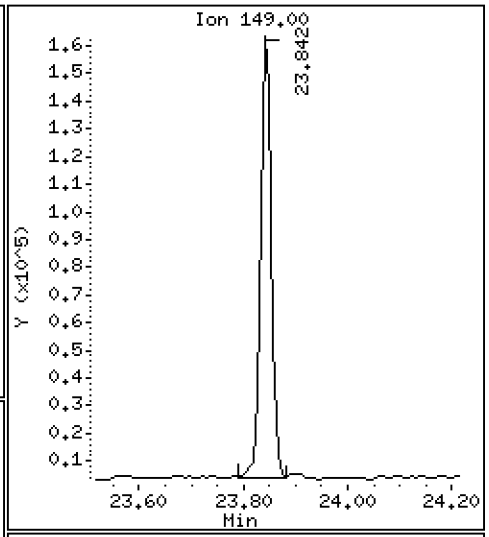
Sample Info: BKL0489-MSD1

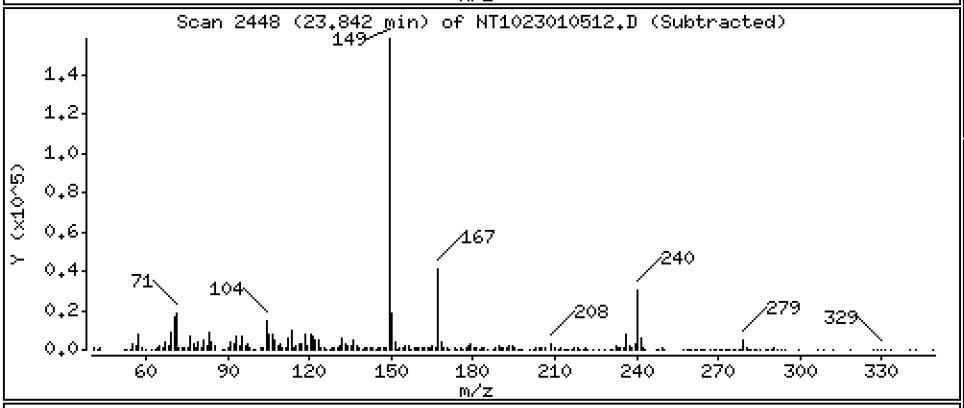
Operator: VTS

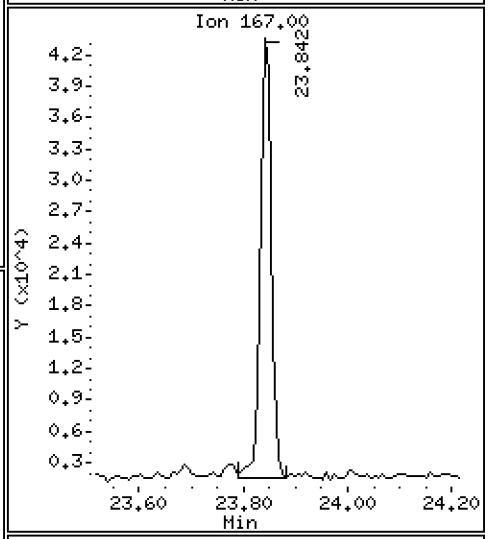
Column phase: ZB-5msi Column diameter: 0.25

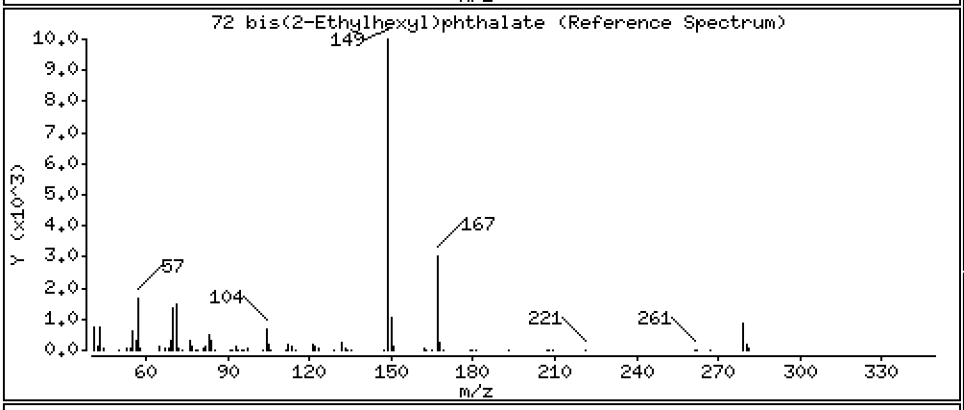
72 bis(2-Ethylhexyl)phthalate Concentration: 5.911 ug/mL

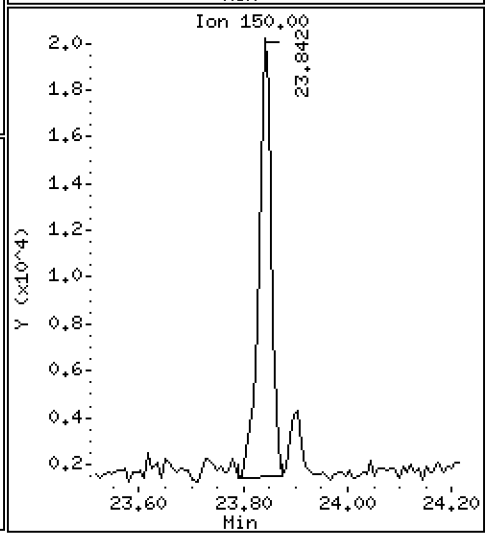


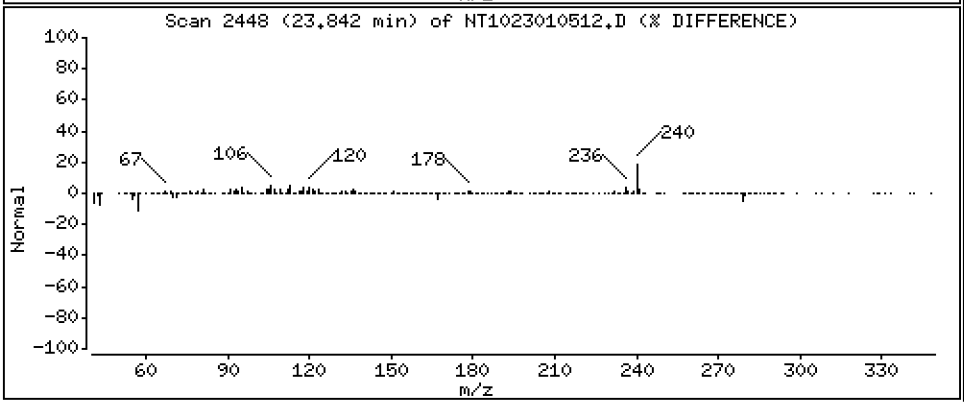












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

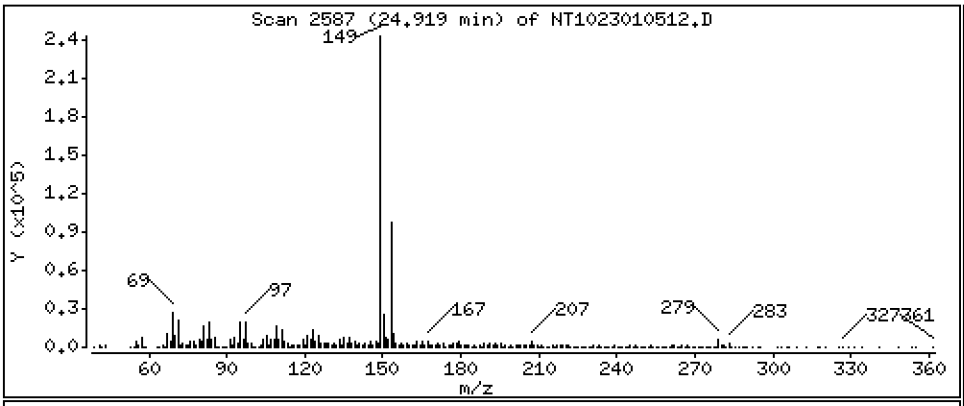
Operator: VTS

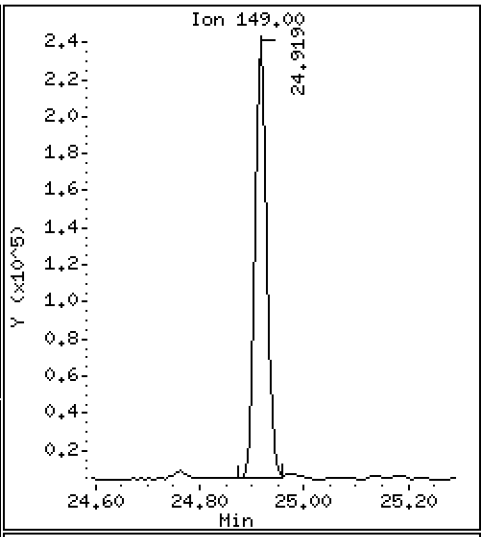
Column phase: ZB-5msi

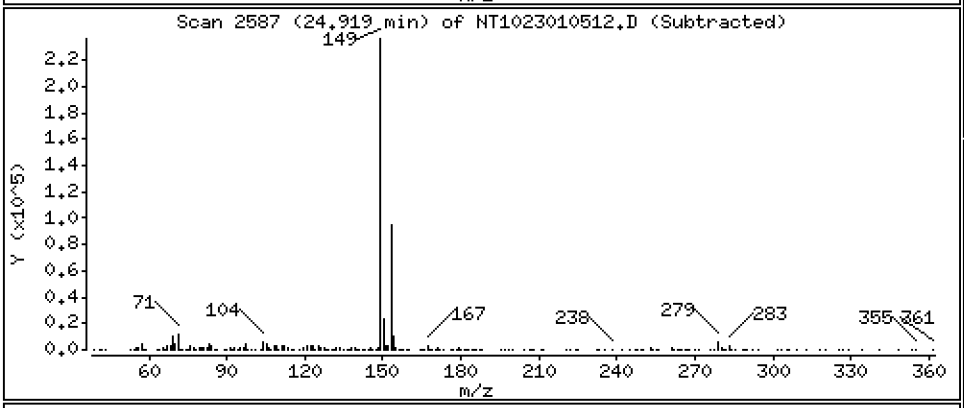
Column diameter: 0.25

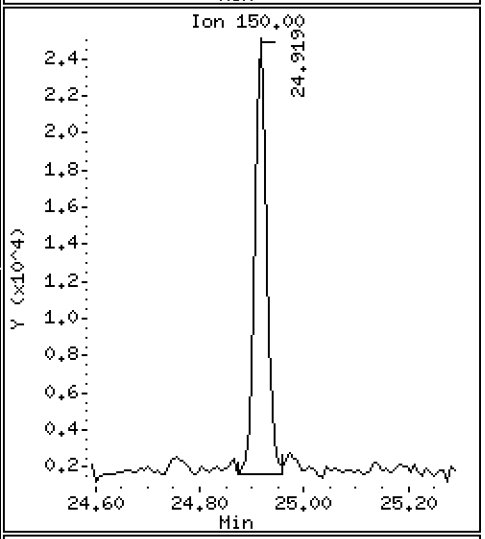
73 Di-n-octylphthalate

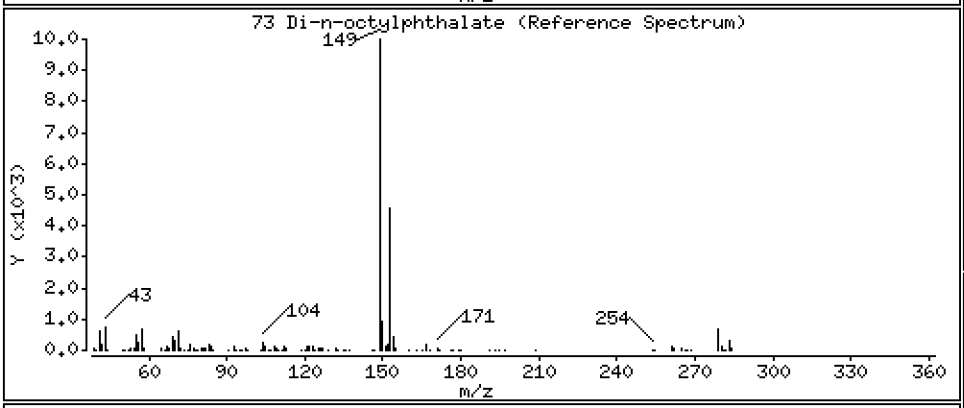
Concentration: 5.489 ug/mL

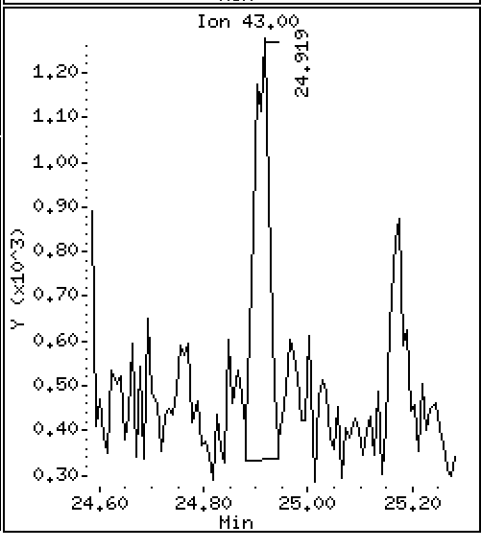


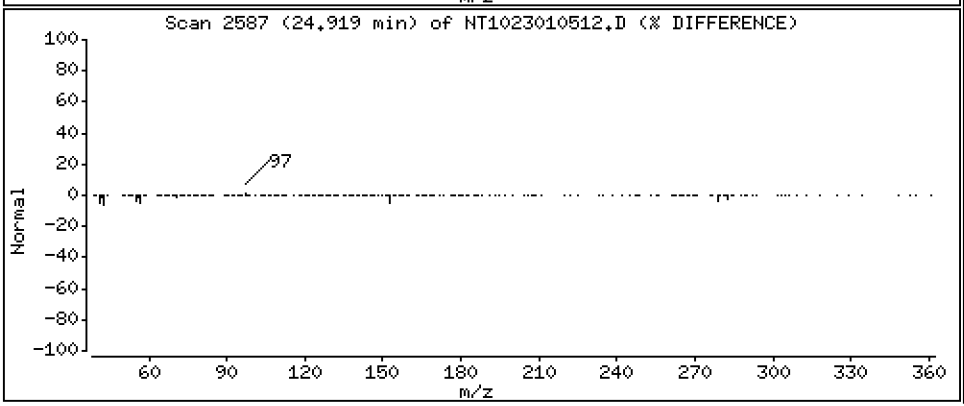












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

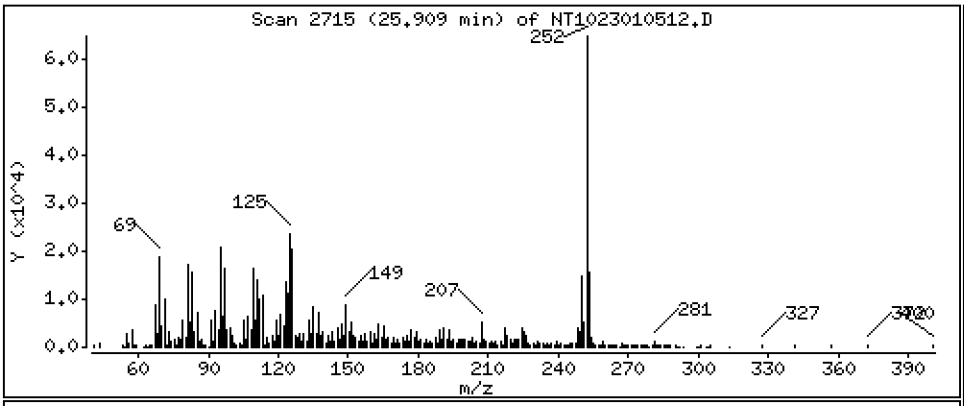
Operator: VTS

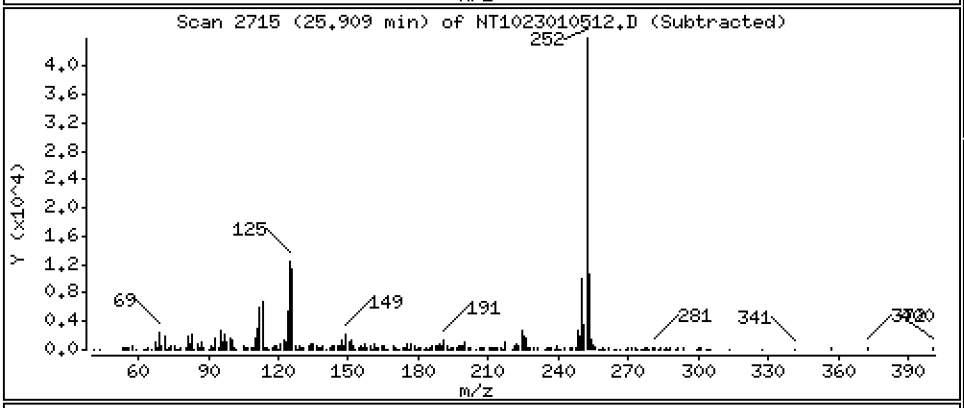
Column phase: ZB-5msi

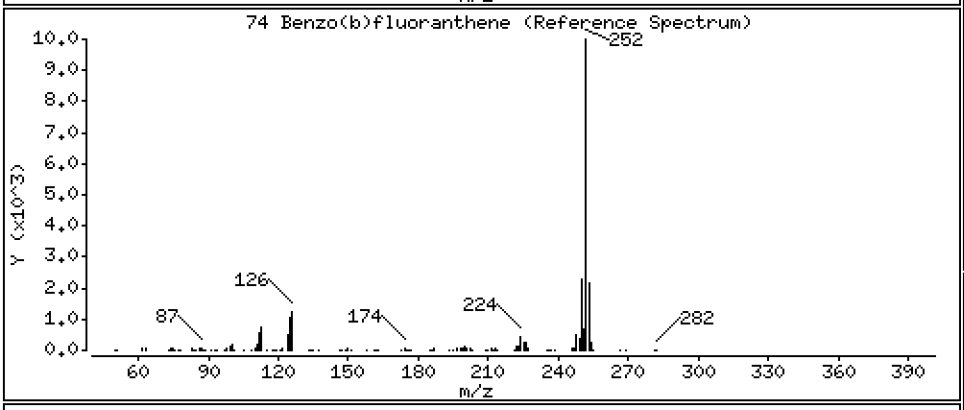
Column diameter: 0.25

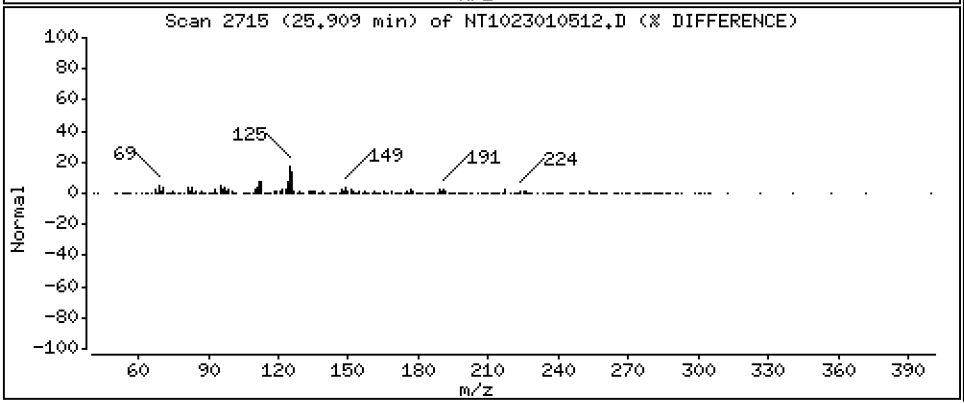
74 Benzo(b)fluoranthene

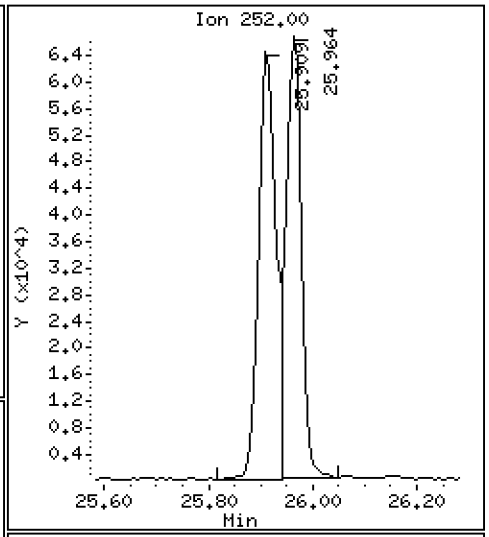
Concentration: 4.866 ug/mL

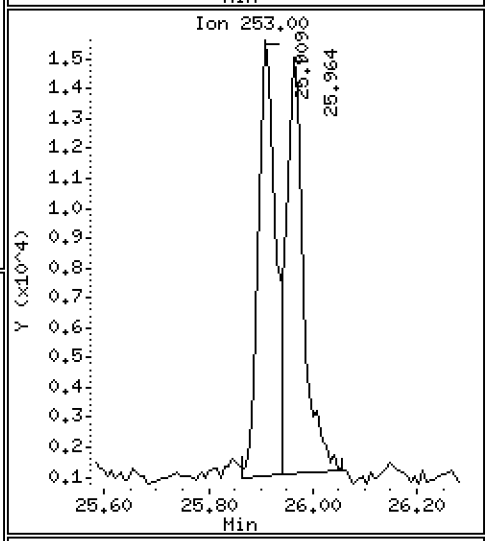


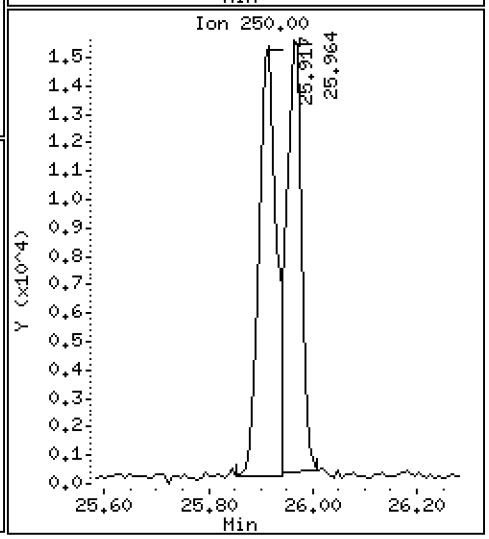












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

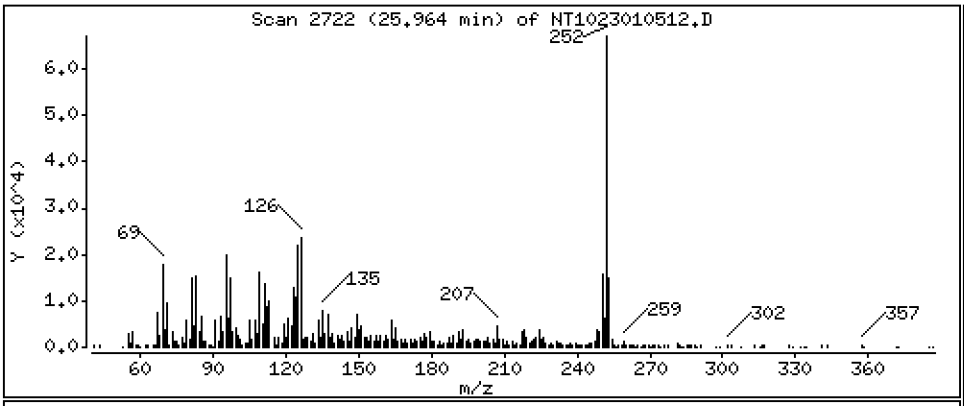
Operator: VTS

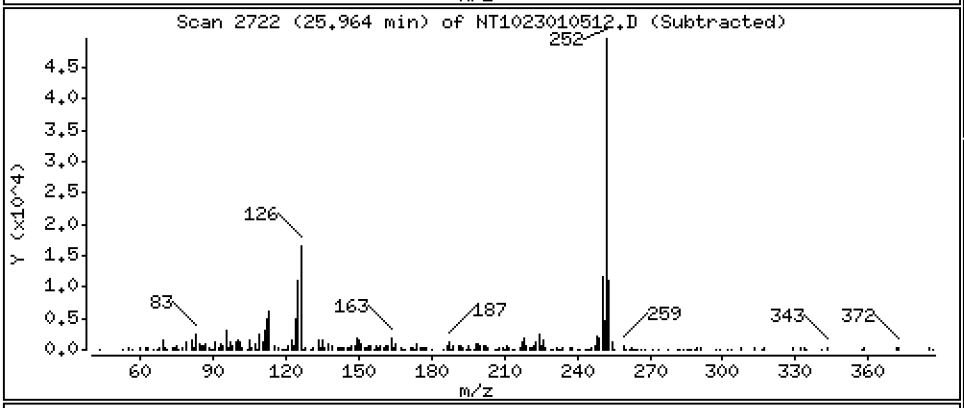
Column phase: ZB-5msi

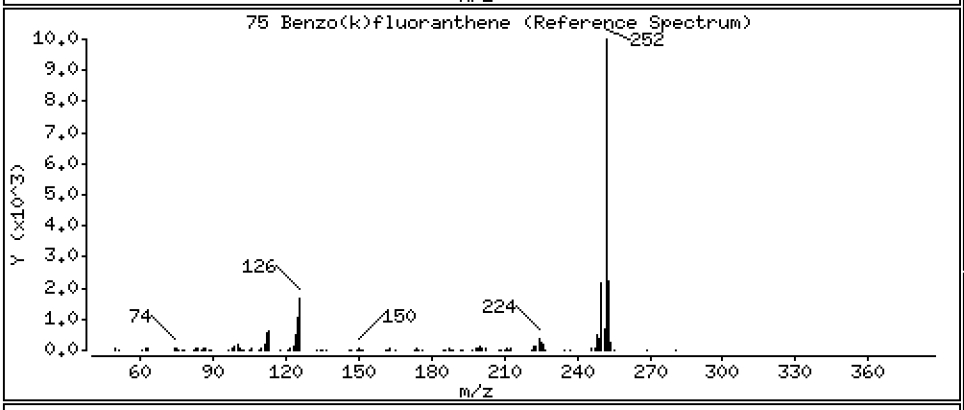
Column diameter: 0.25

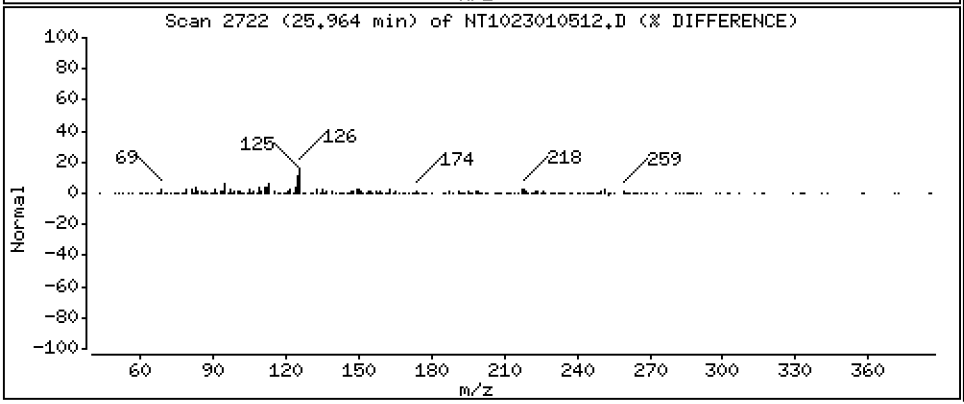
75 Benzo(k)fluoranthene

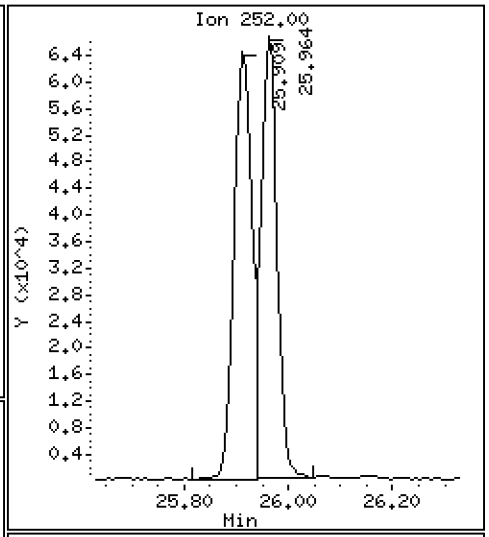
Concentration: 4.700 ug/mL

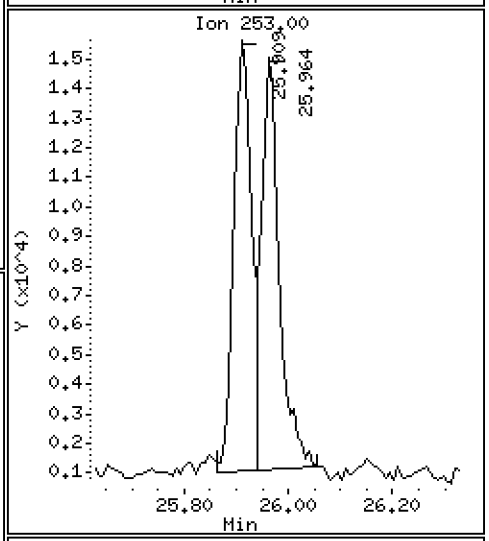


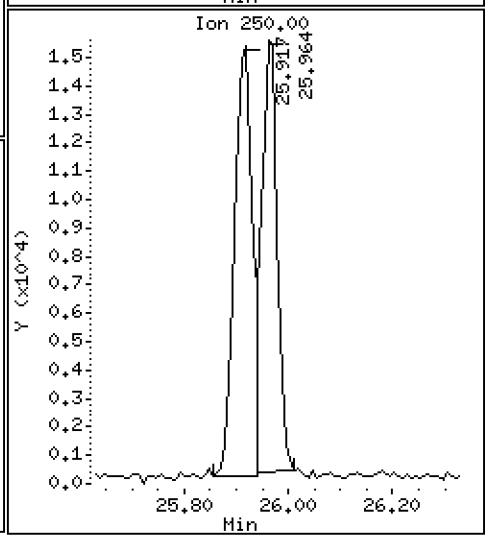












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

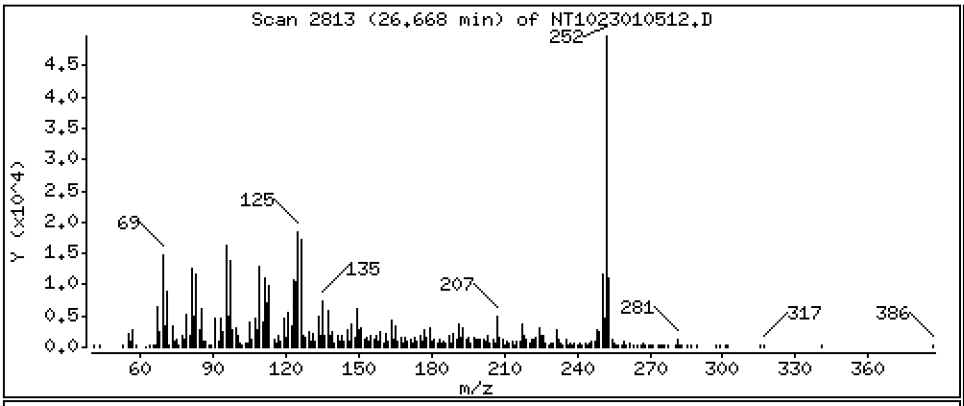
Operator: VTS

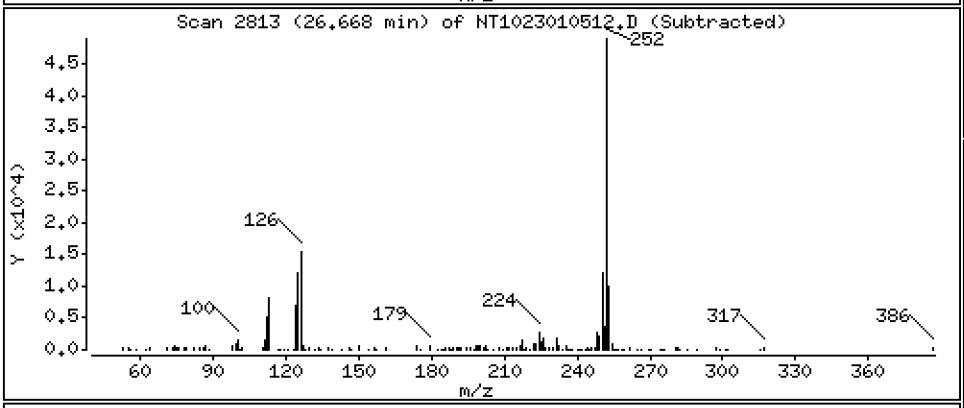
Column phase: ZB-5msi

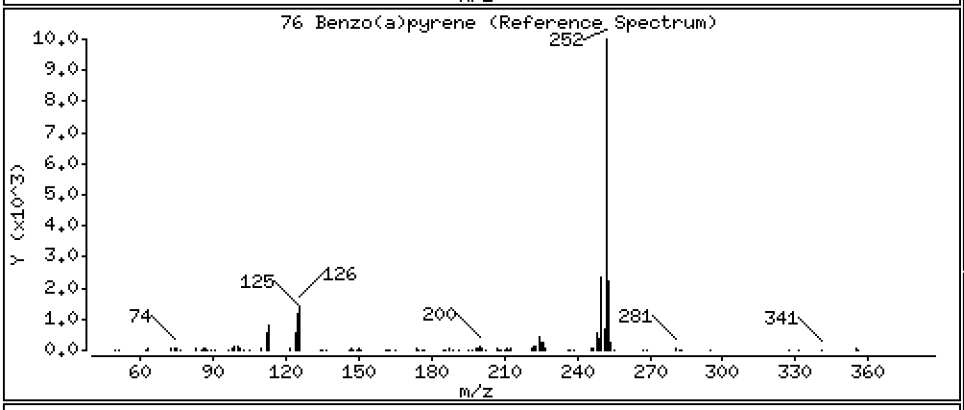
Column diameter: 0.25

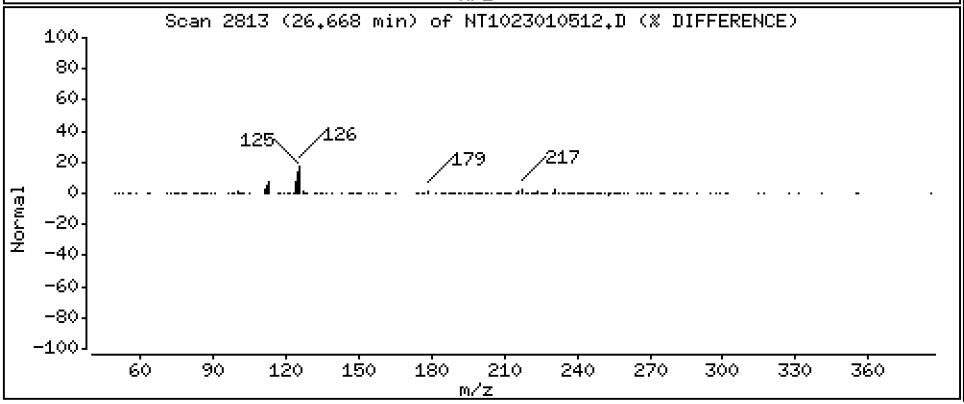
76 Benzo(a)pyrene

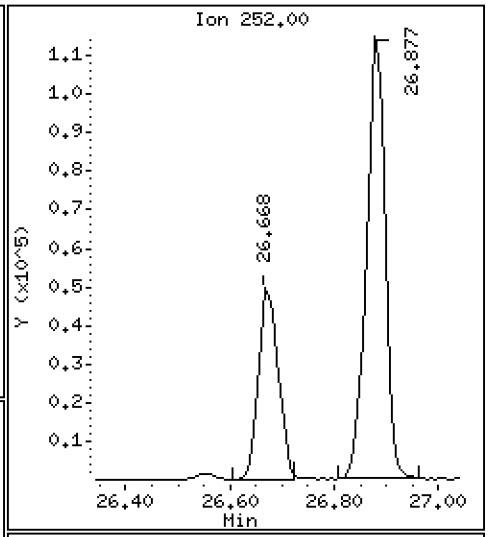
Concentration: 4.465 ug/mL

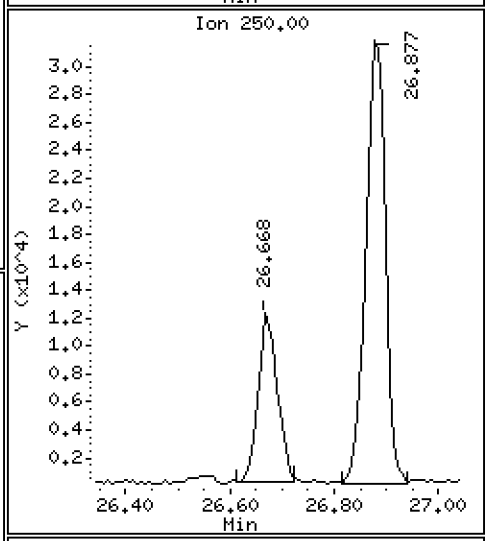


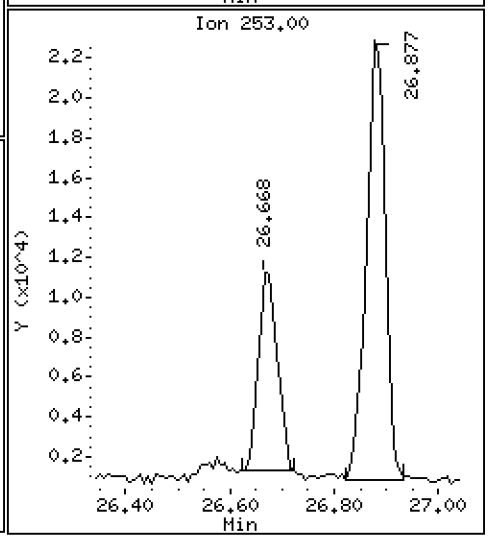












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

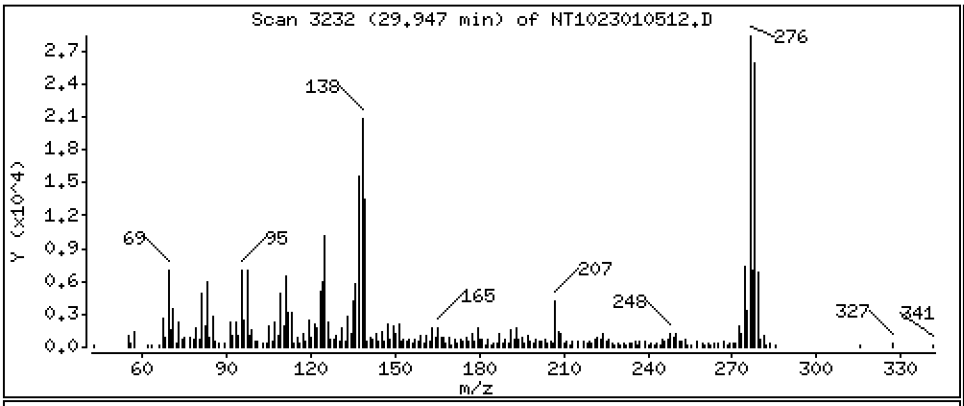
Operator: VTS

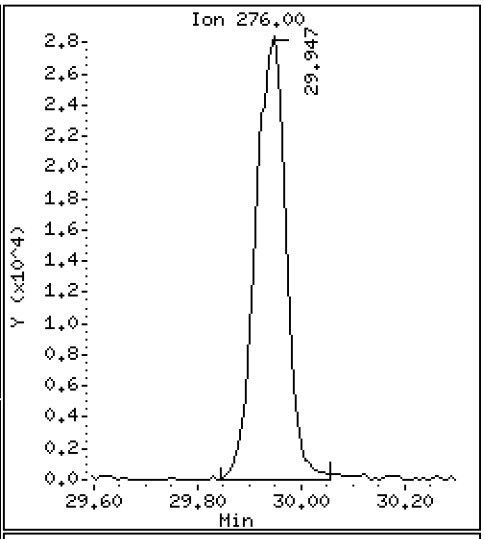
Column phase: ZB-5msi

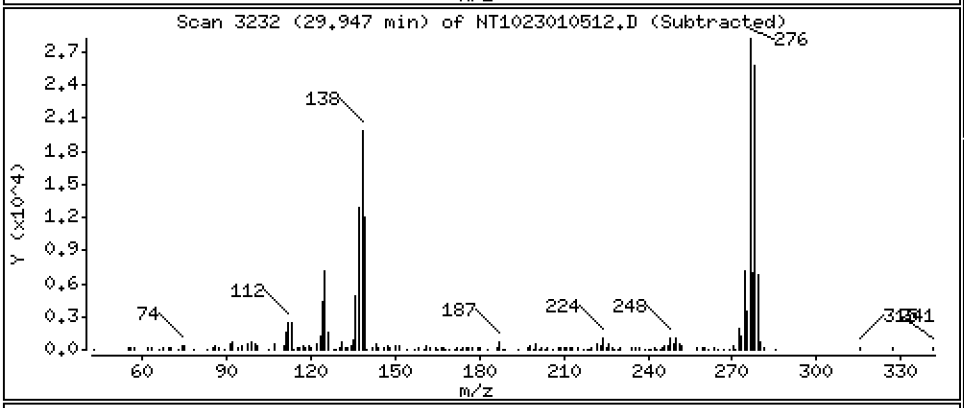
Column diameter: 0.25

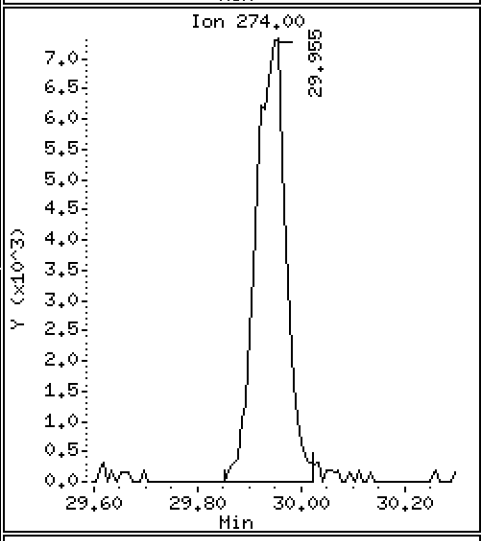
78 Indeno(1,2,3-cd)pyrene

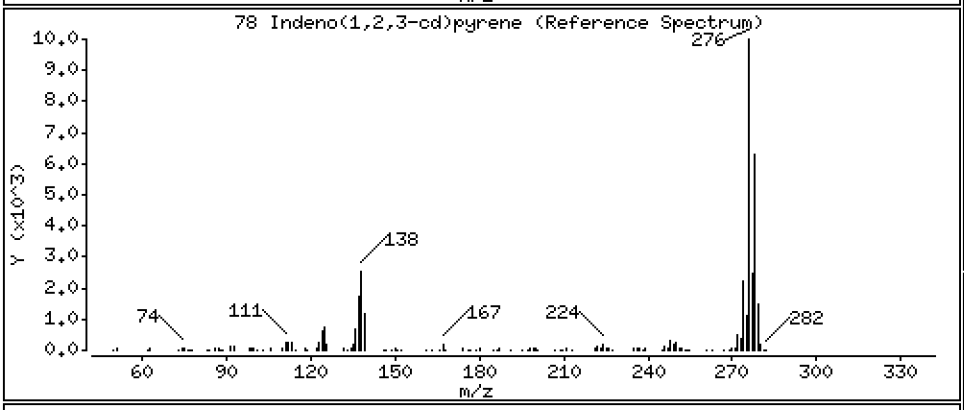
Concentration: 4.809 ug/mL

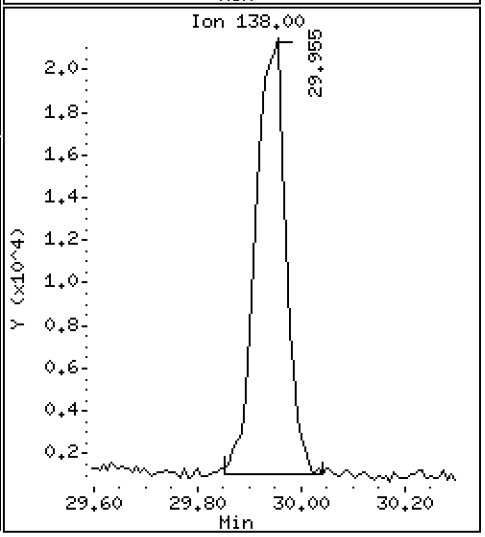


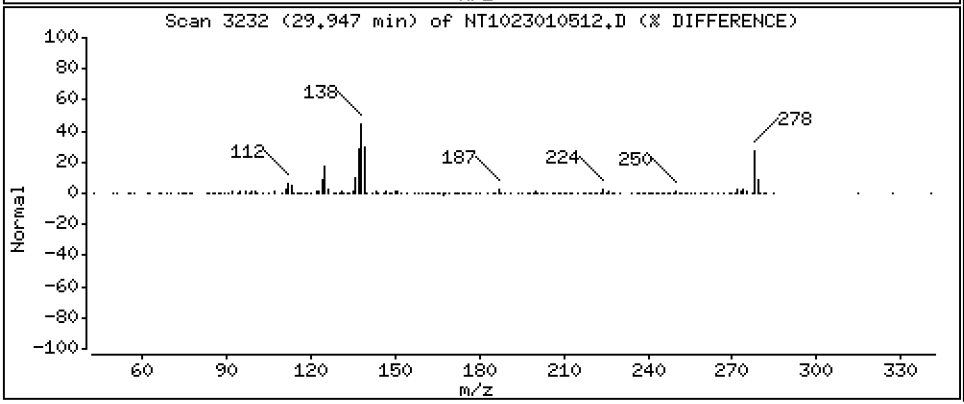












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

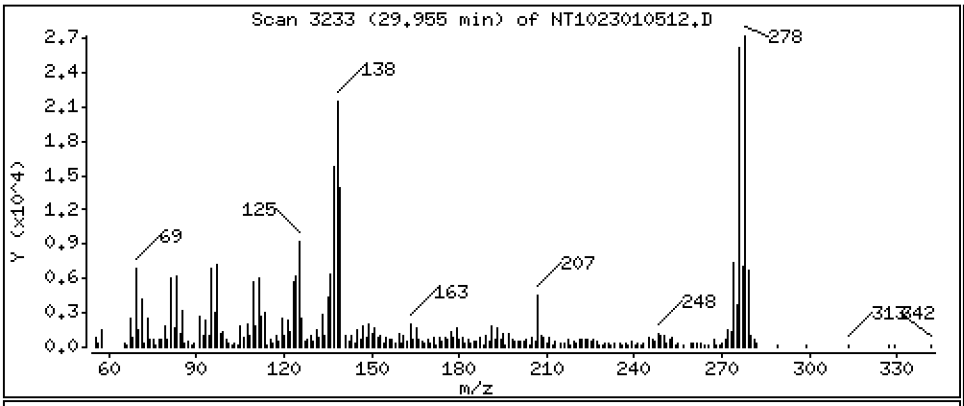
Operator: VTS

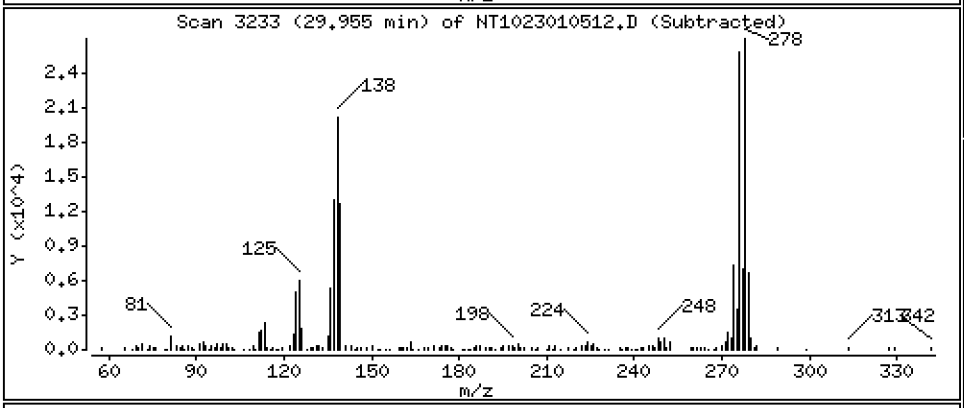
Column phase: ZB-5msi

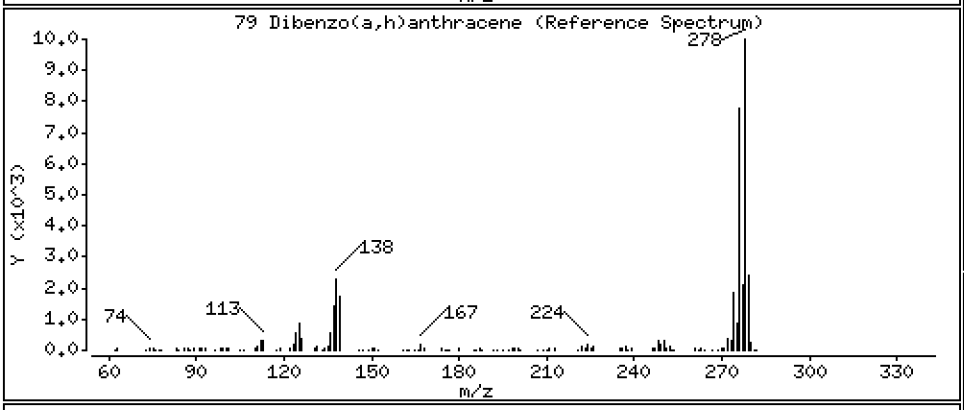
Column diameter: 0.25

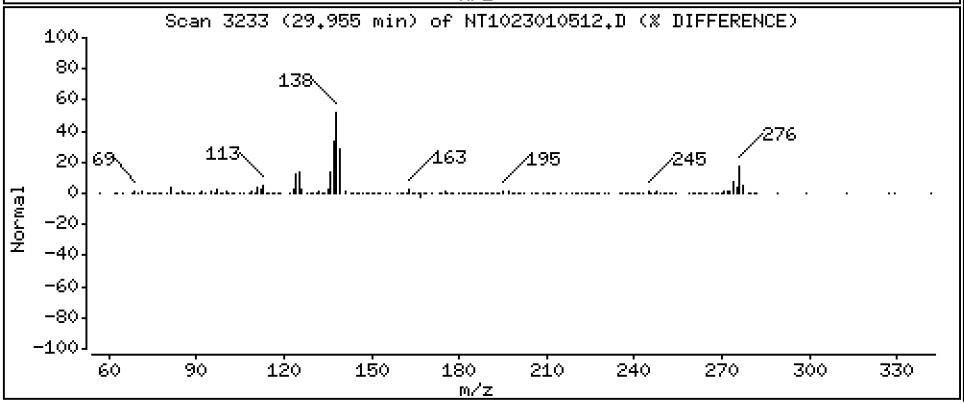
79 Dibenzo(a,h)anthracene

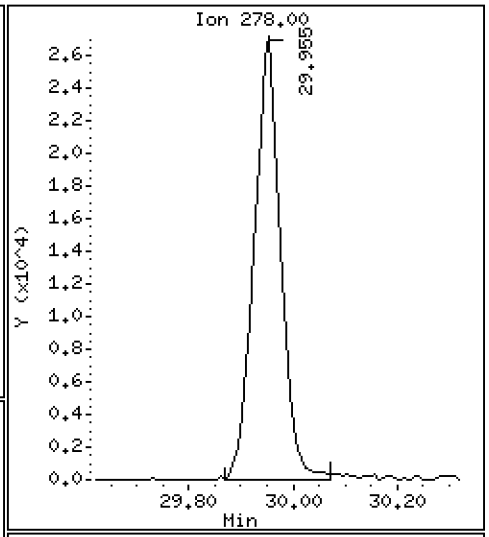
Concentration: 5.070 ug/mL

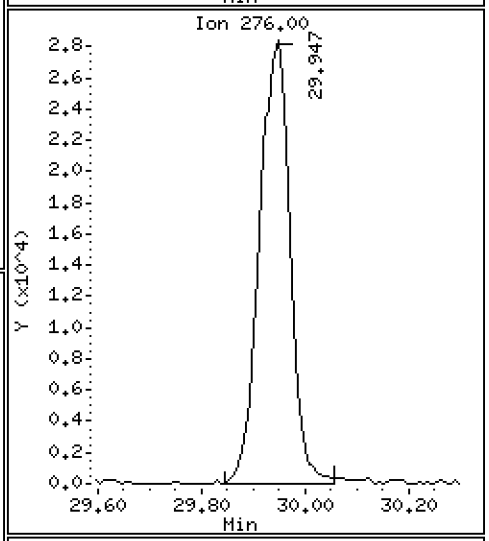


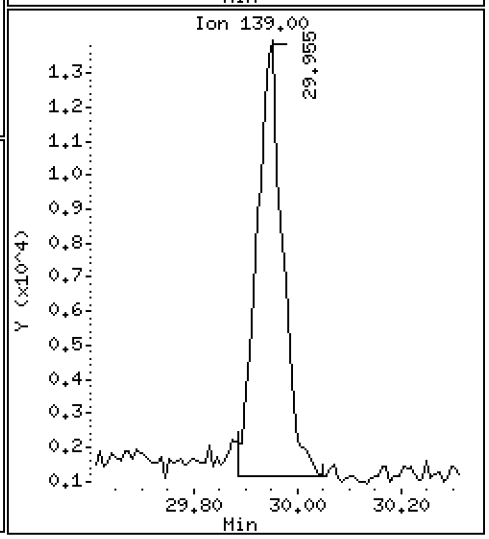












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

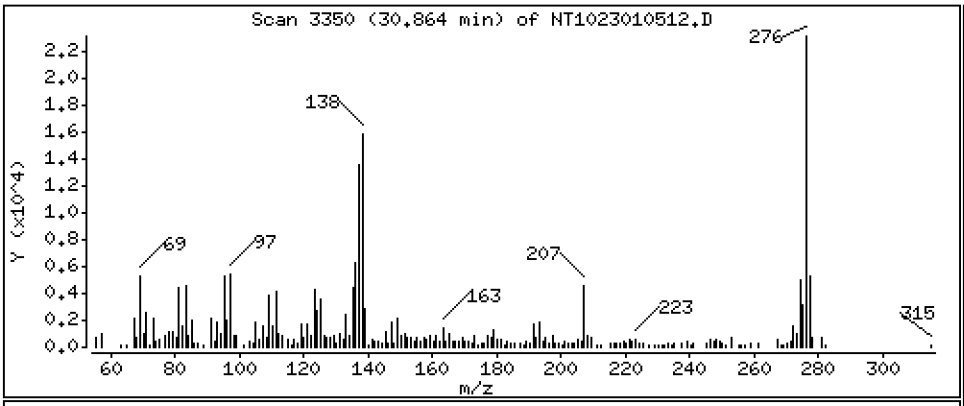
Operator: VTS

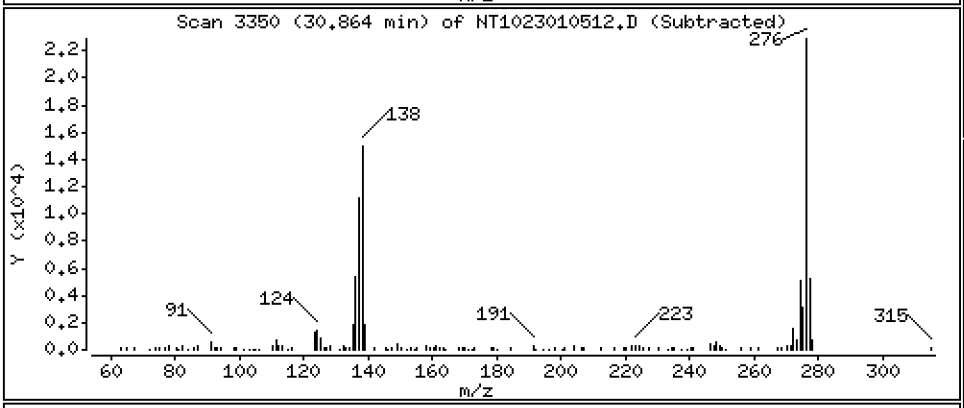
Column phase: ZB-5msi

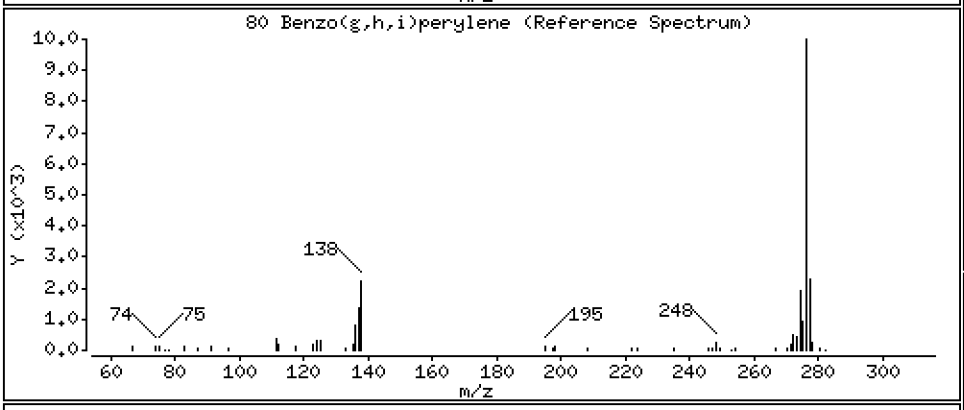
Column diameter: 0.25

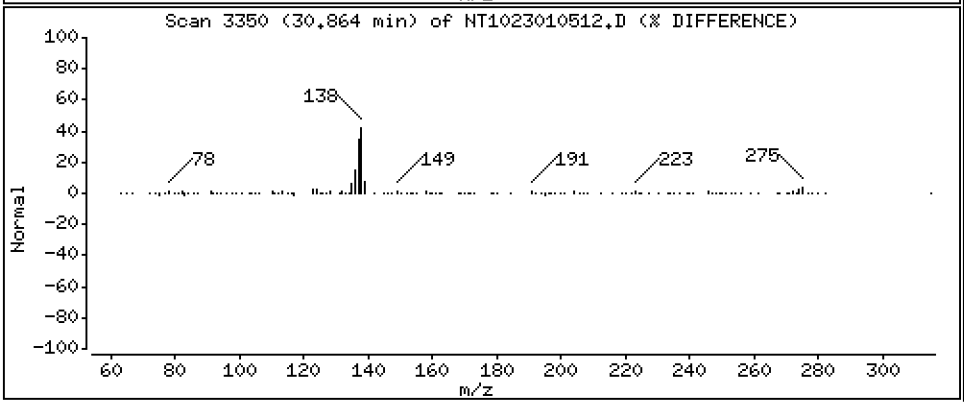
80 Benzo(g,h,i)perylene

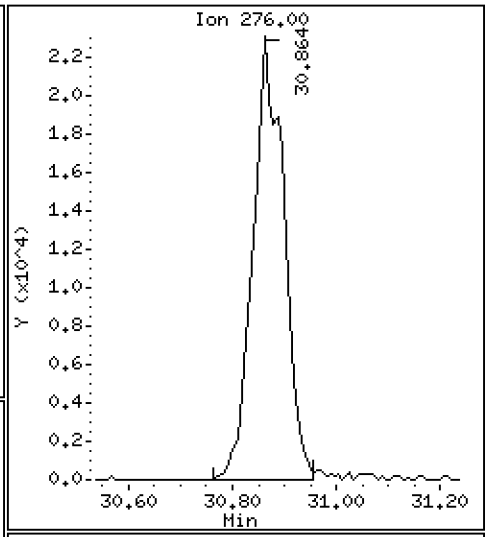
Concentration: 4.841 ug/mL

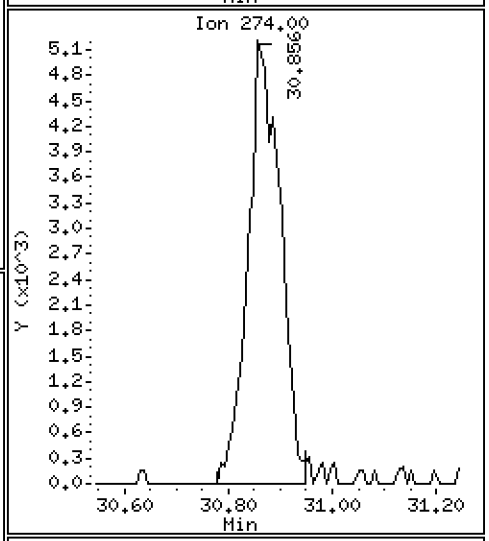


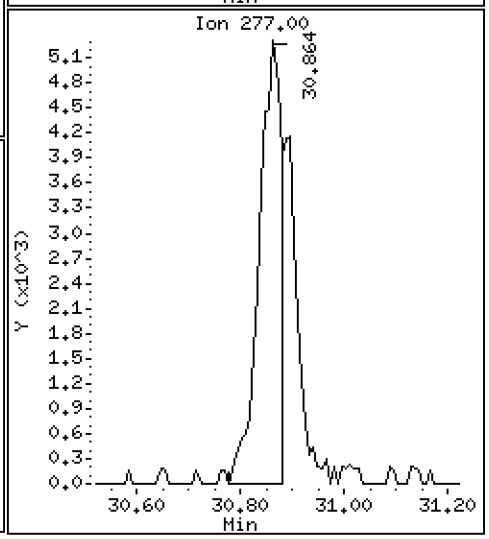












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

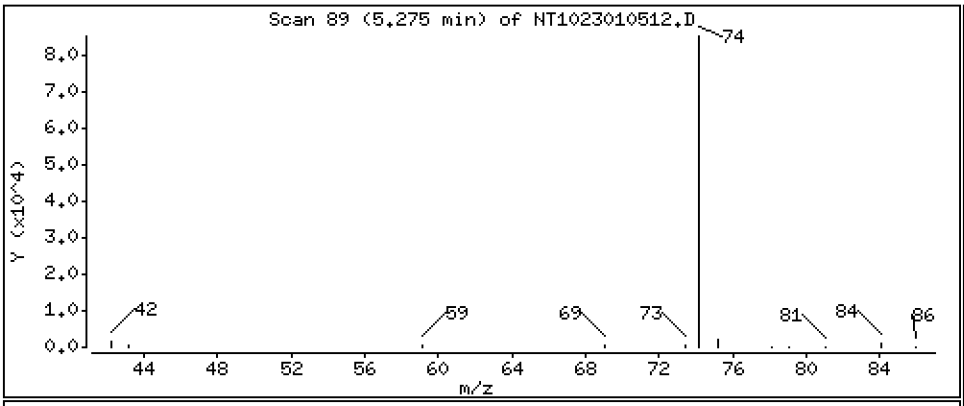
Operator: VTS

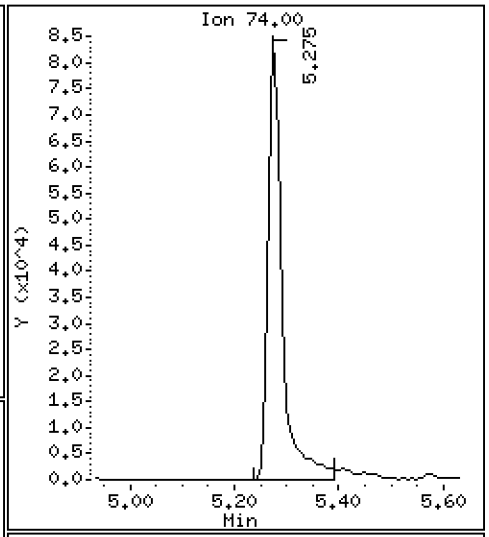
Column phase: ZB-5msi

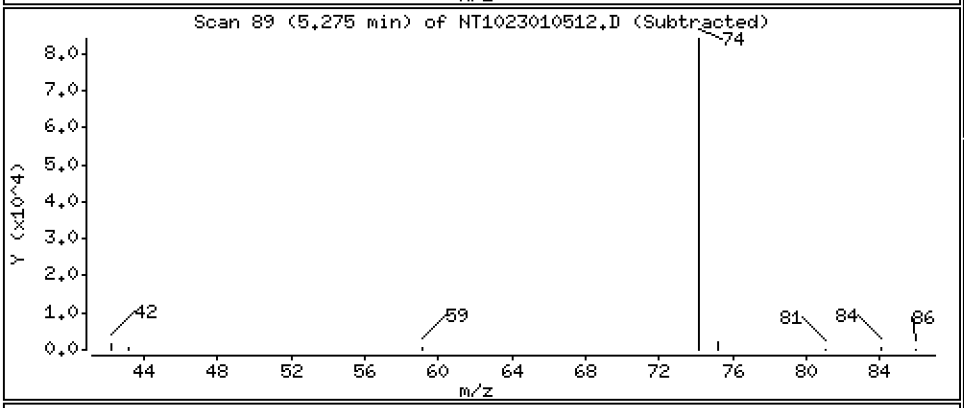
Column diameter: 0.25

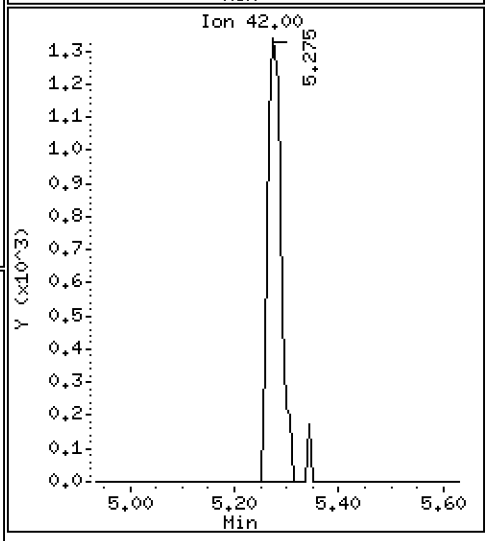
90 N-Nitrosodimethylamine

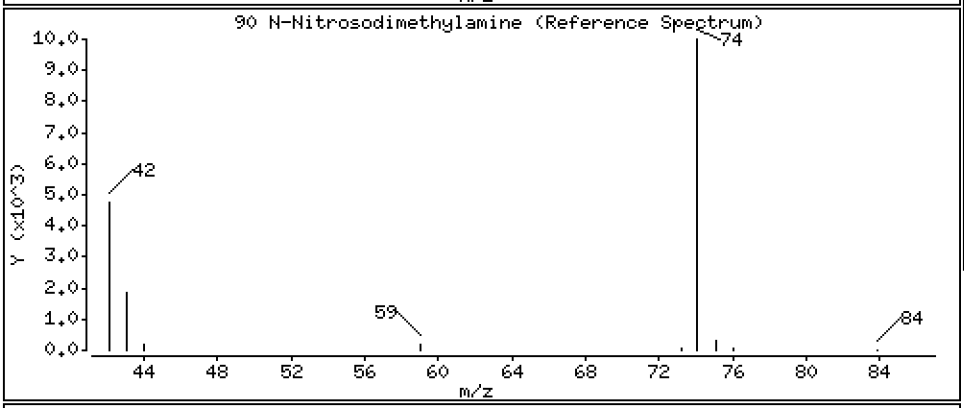
Concentration: 12.07 ug/mL

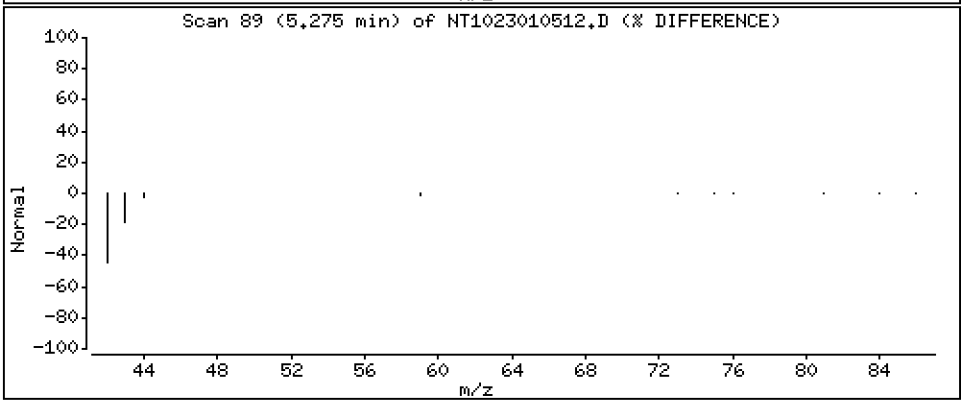












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

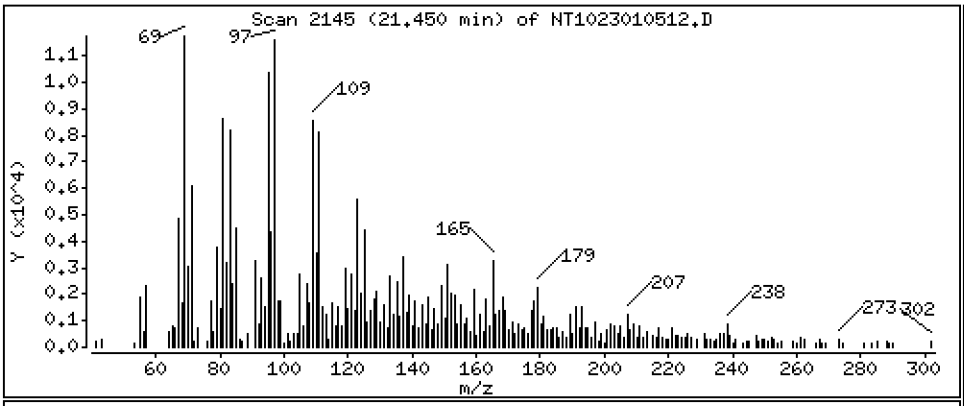
Operator: VTS

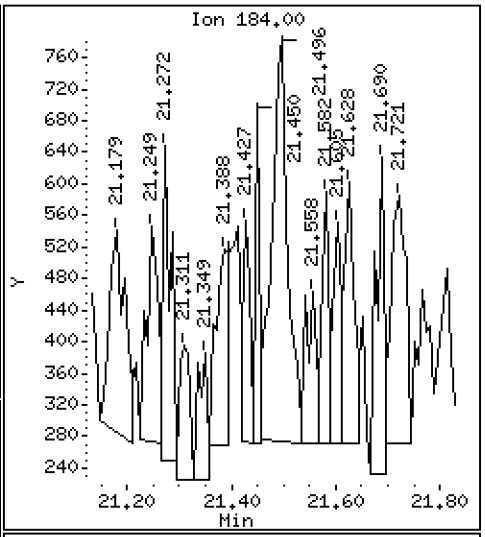
Column phase: ZB-5msi

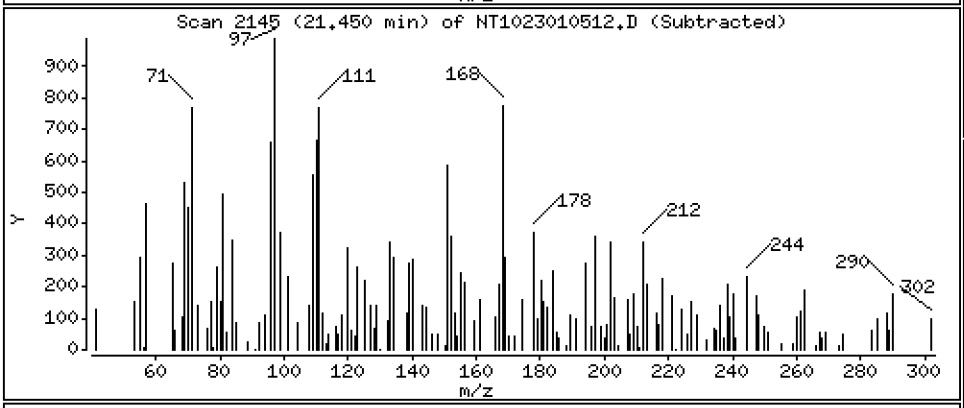
Column diameter: 0.25

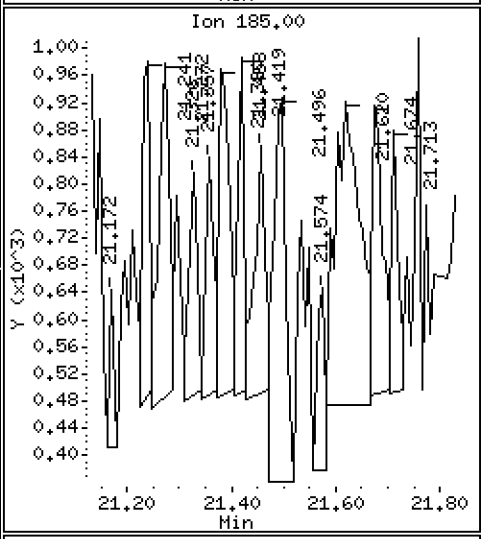
93 Benzidine

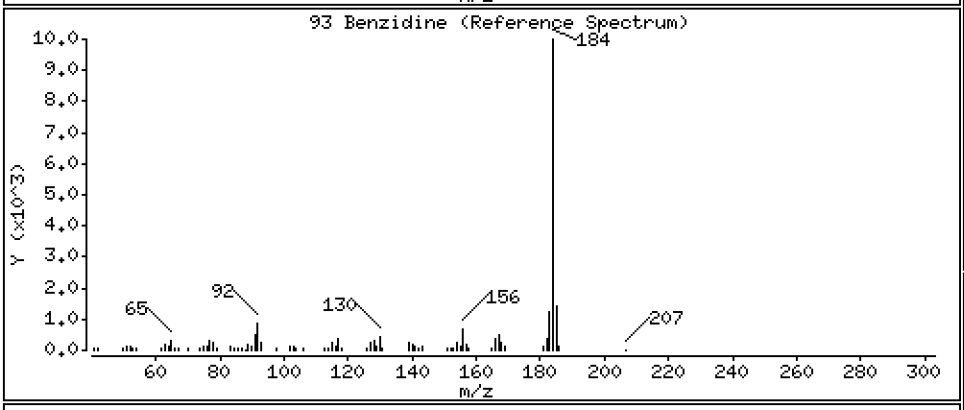
Concentration: 0.01296 ug/mL

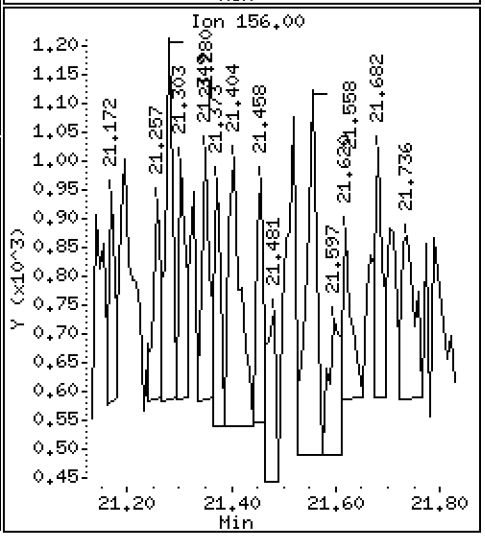


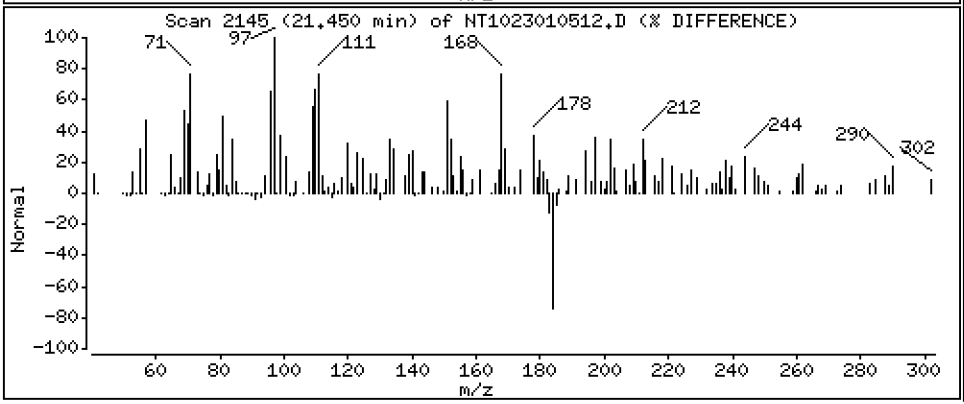












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D

Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

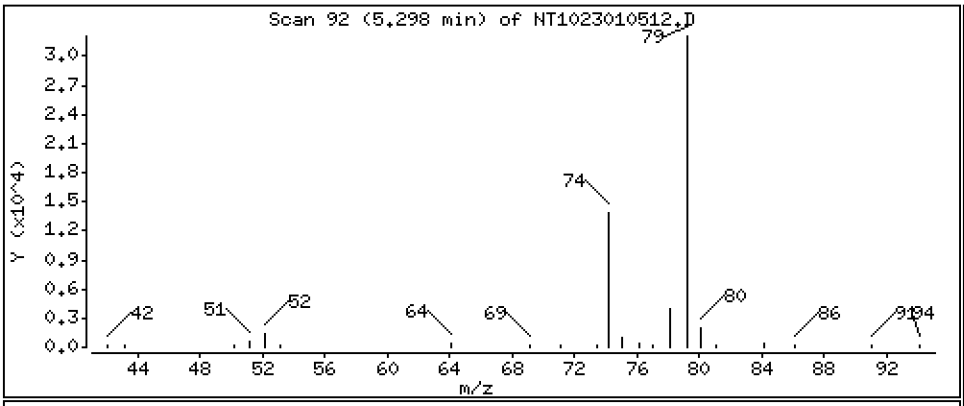
Operator: VTS

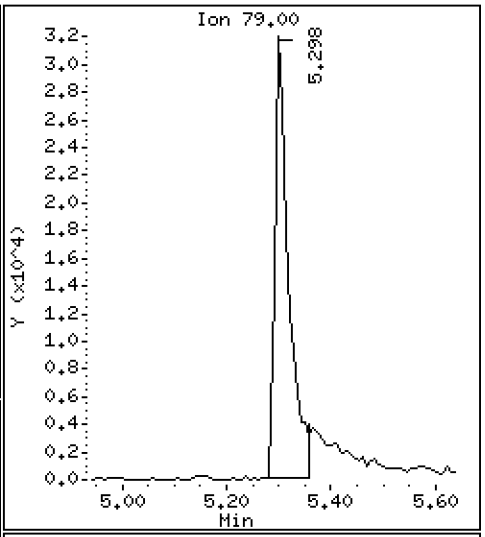
Column phase: ZB-5msi

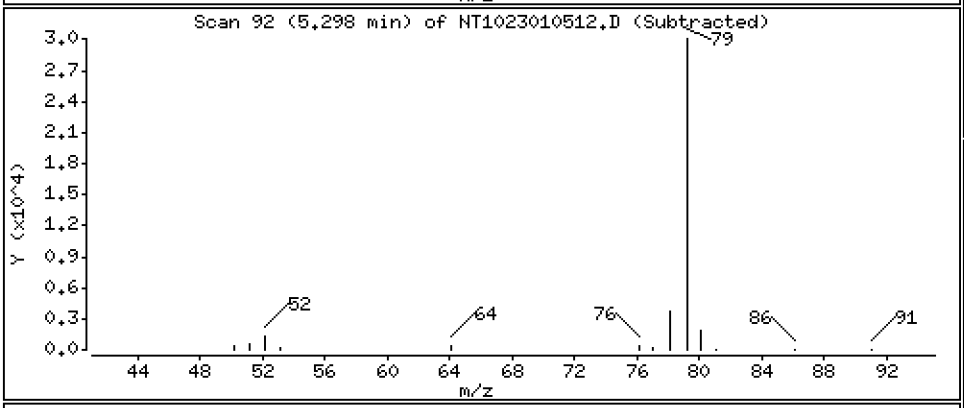
Column diameter: 0.25

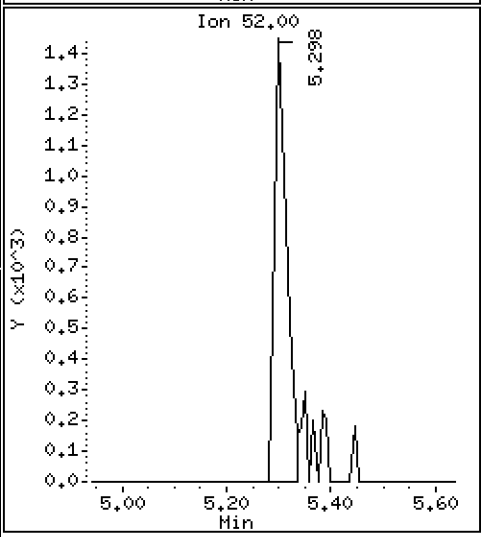
103 Pyridine

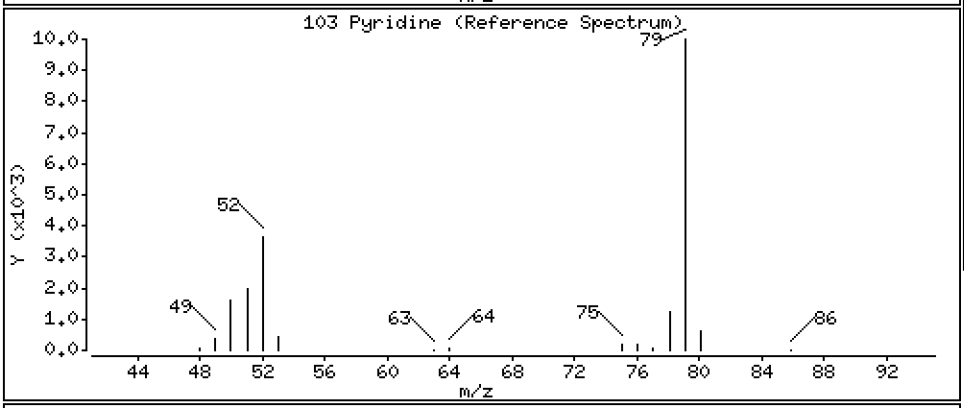
Concentration: 1.679 ug/mL

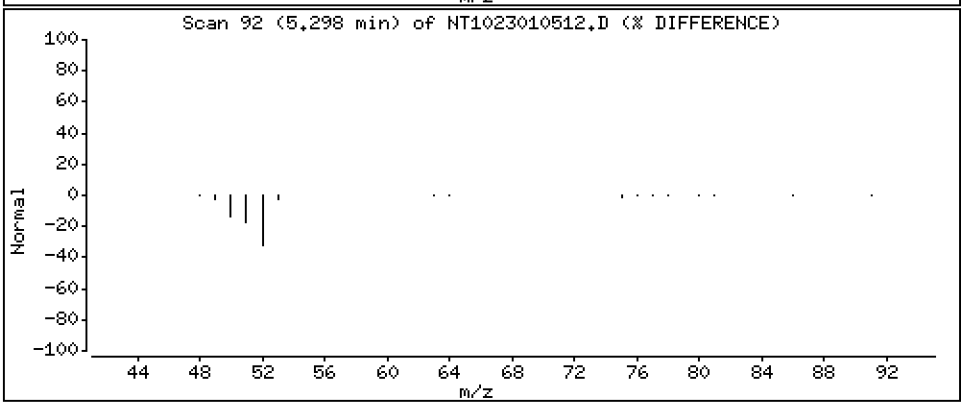












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

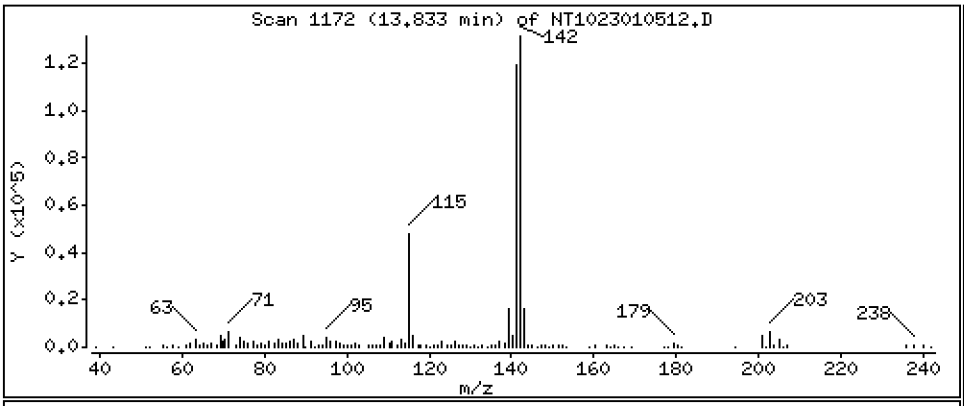
Operator: VTS

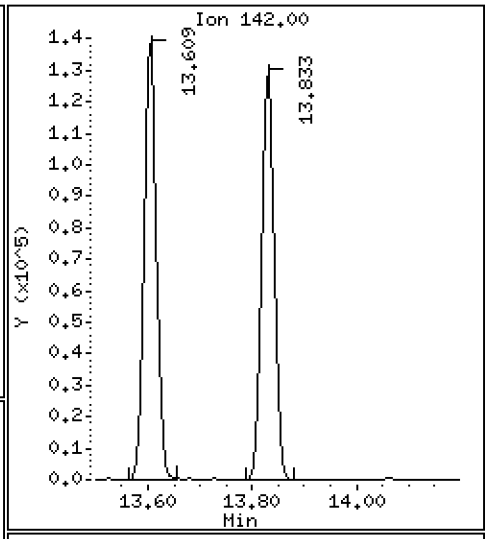
Column phase: ZB-5msi

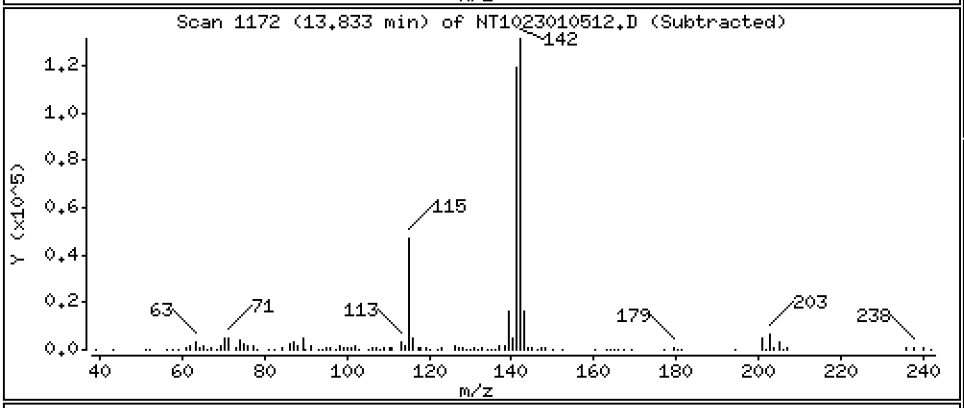
Column diameter: 0.25

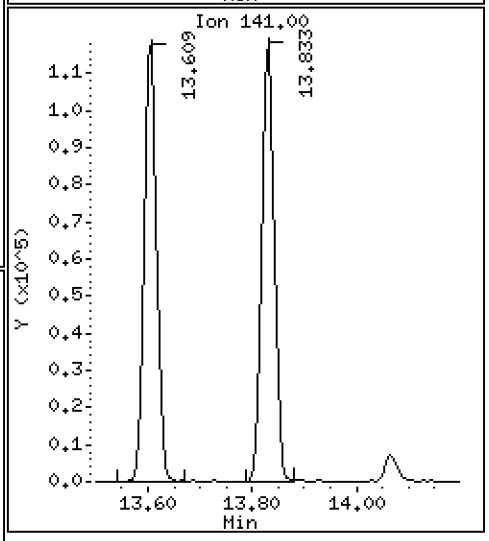
105 1-methylnaphthalene

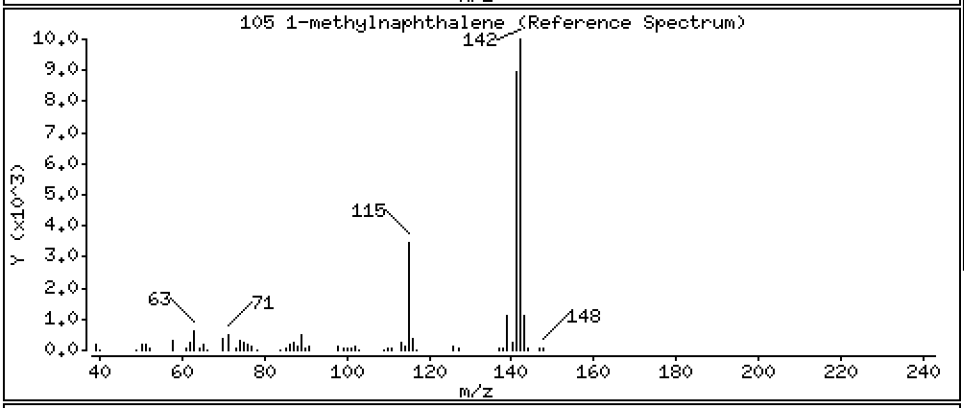
Concentration: 5.151 ug/mL

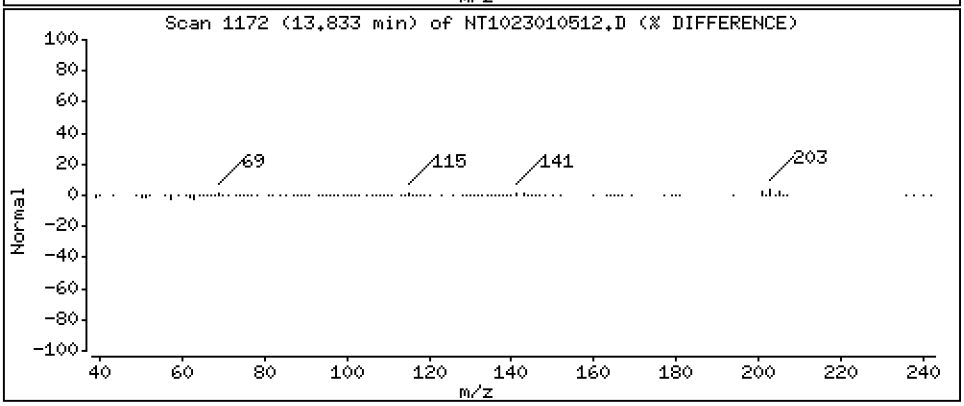












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

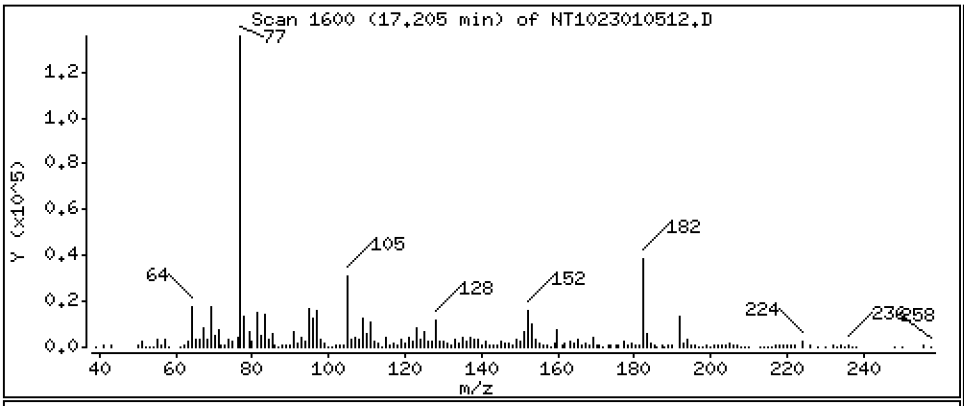
Operator: VTS

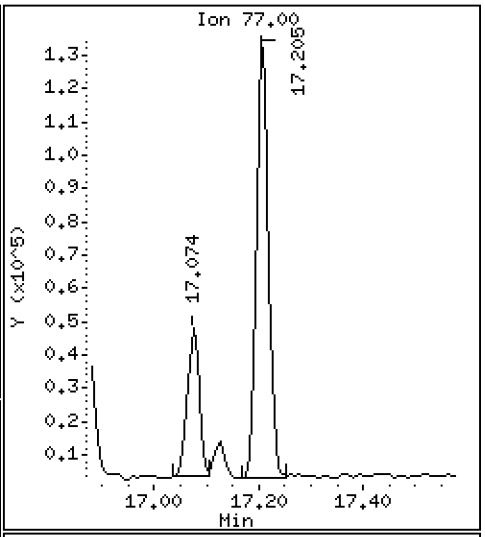
Column phase: ZB-5msi

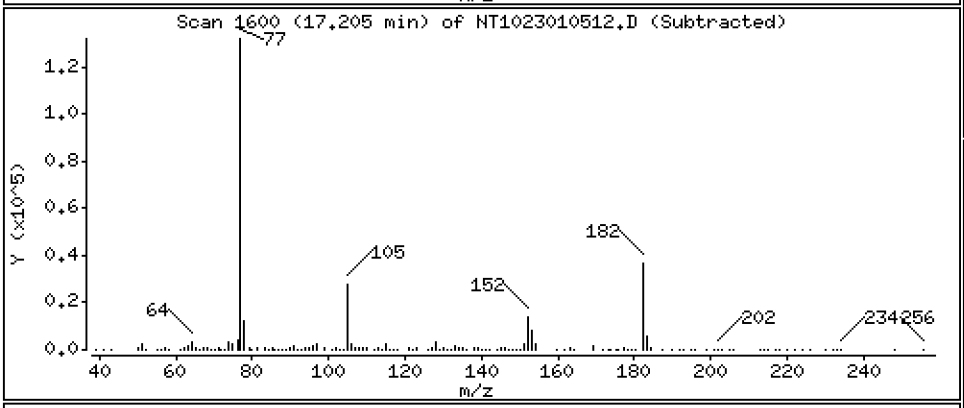
Column diameter: 0.25

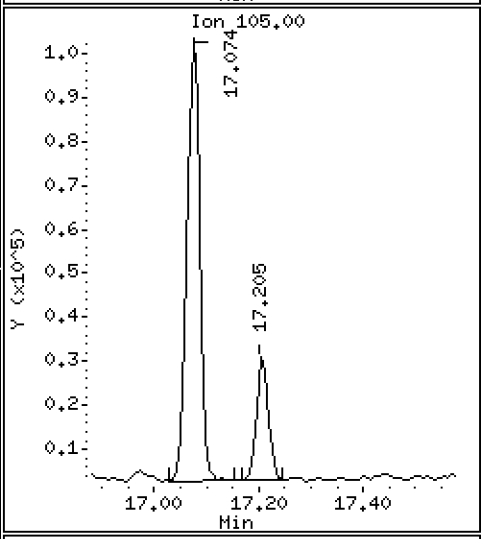
111 Azobenzene (1,2-DP-Hydrazine)

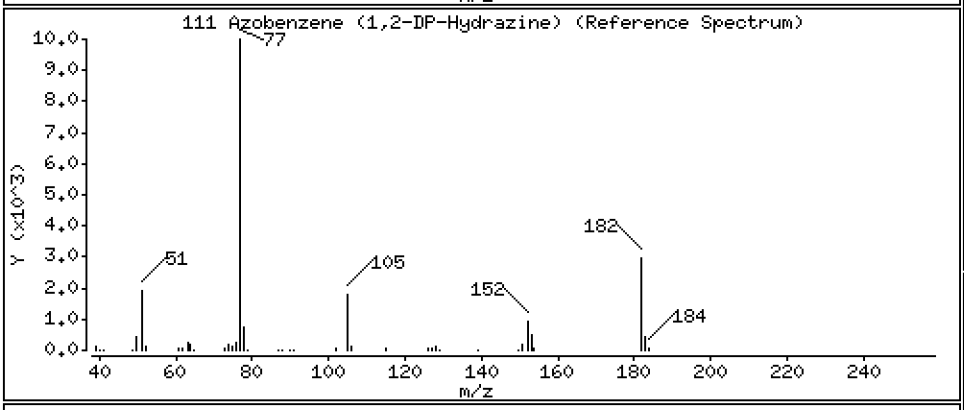
Concentration: 5.093 ug/mL

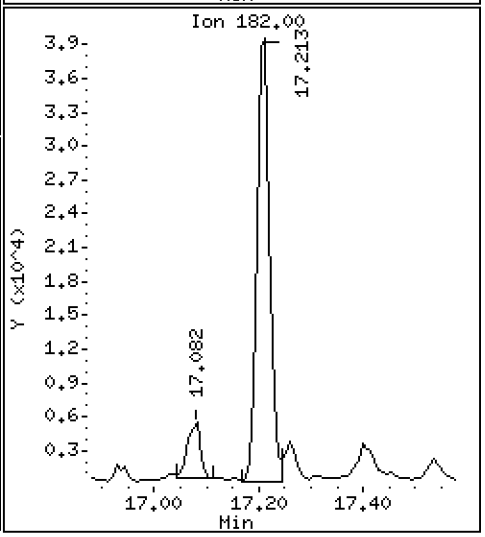


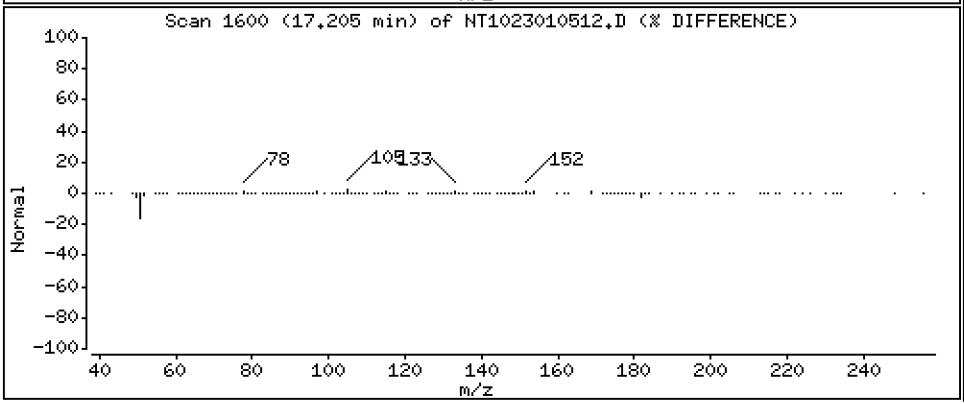












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

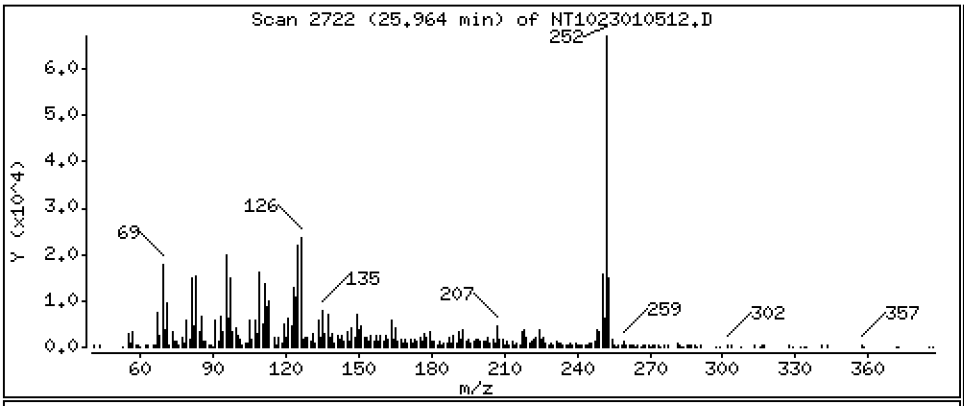
Operator: VTS

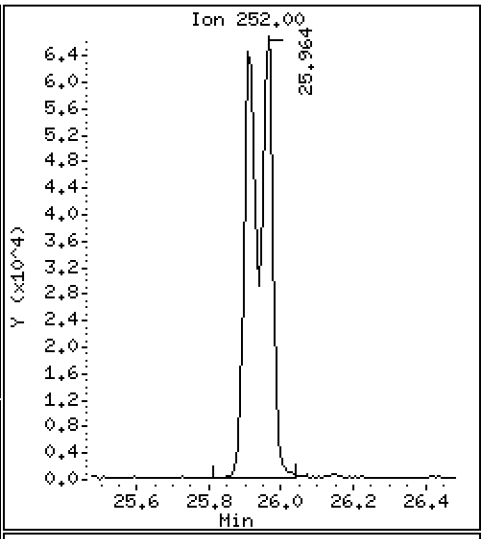
Column phase: ZB-5msi

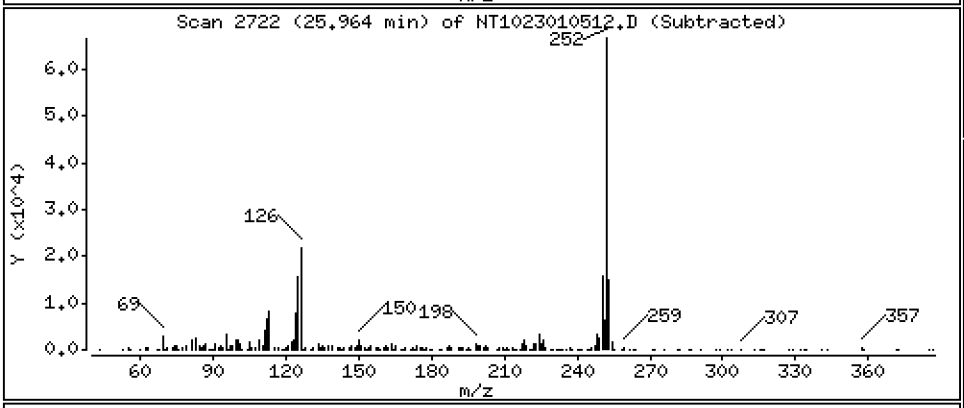
Column diameter: 0.25

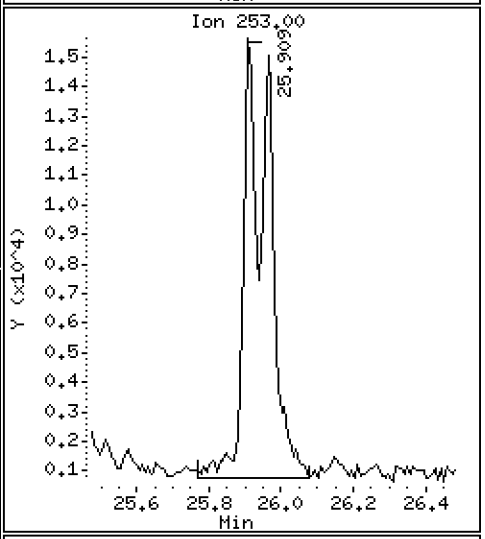
187 Total Benzofluoranthenes

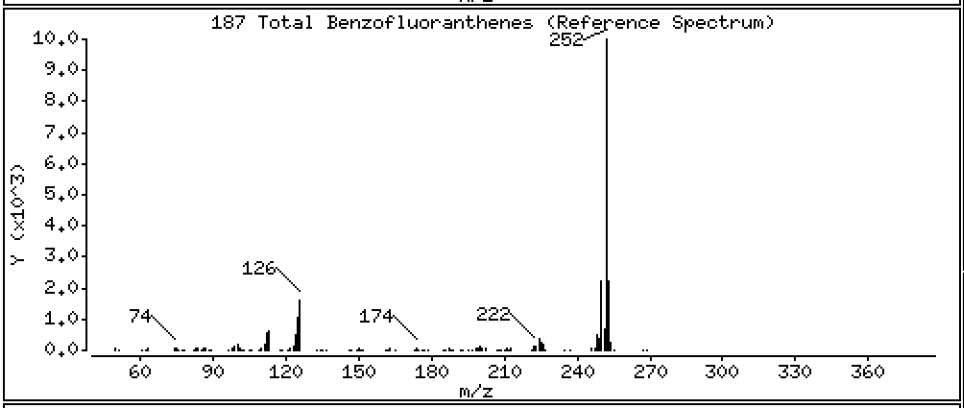
Concentration: 9.556 ug/mL

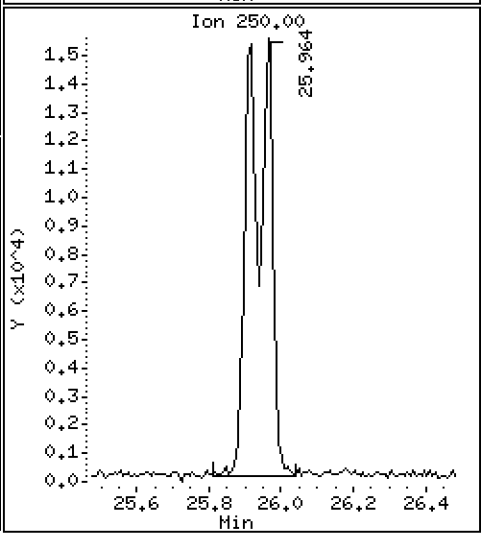


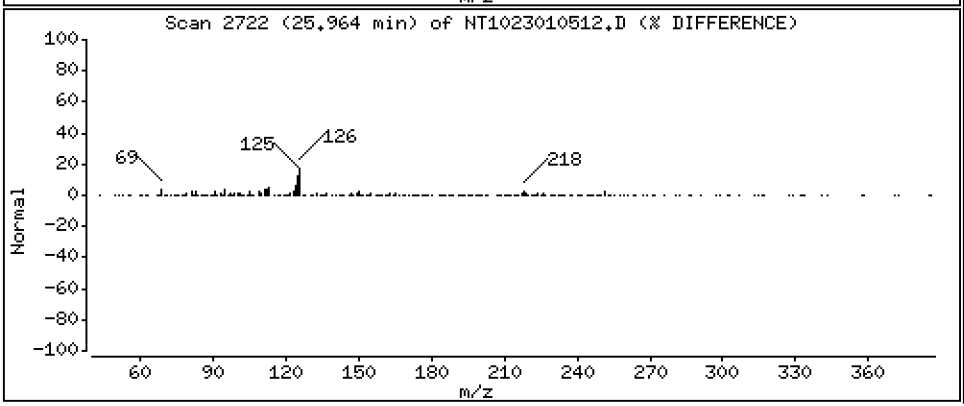












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Date : 05-JAN-2023 20:26

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-MSD1

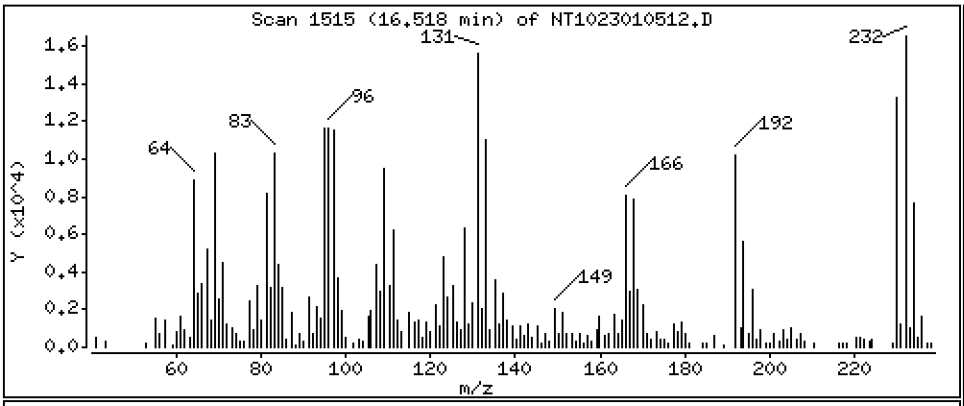
Operator: VTS

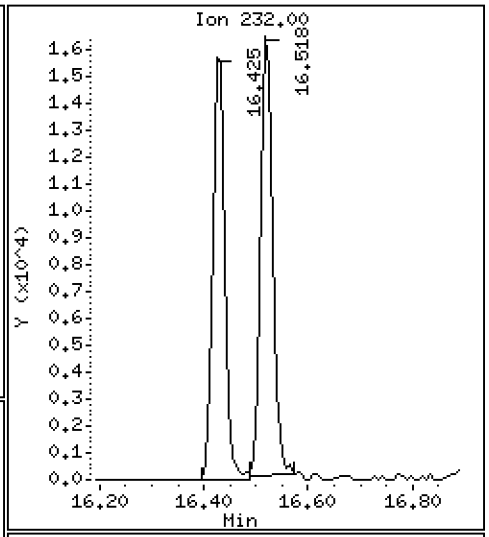
Column phase: ZB-5msi

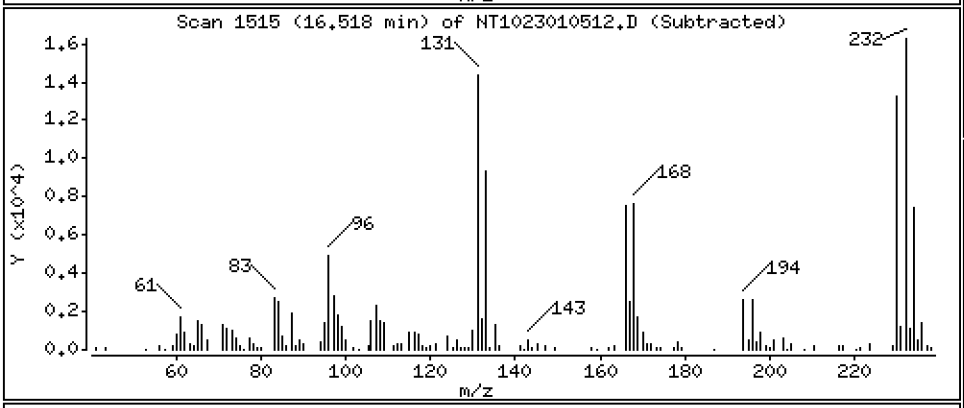
Column diameter: 0.25

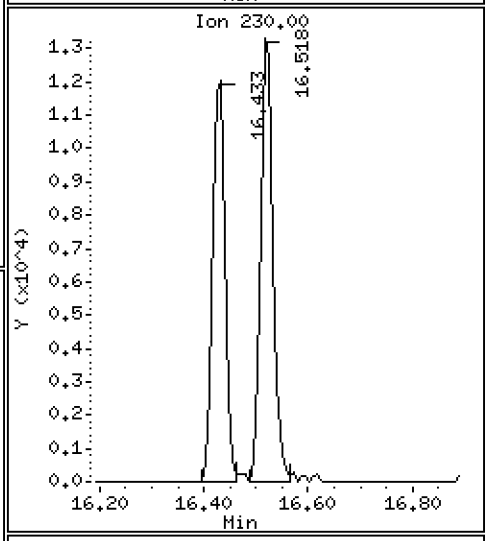
120 2,3,4,6-Tetrachlorophenol

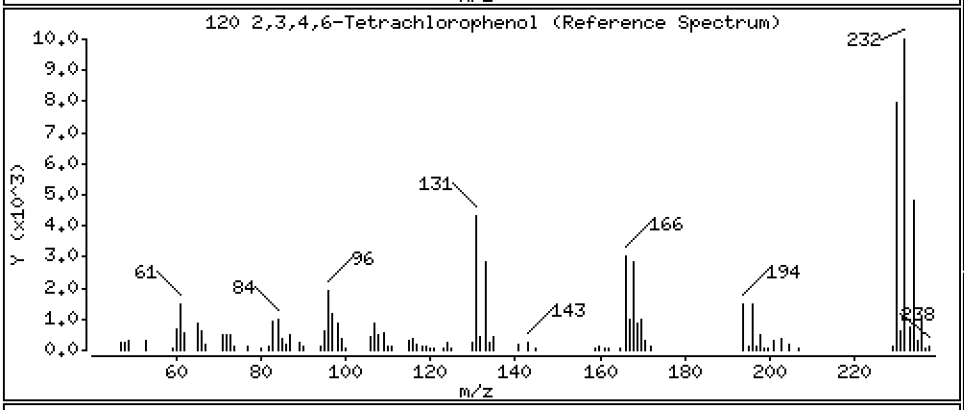
Concentration: 5.099 ug/mL

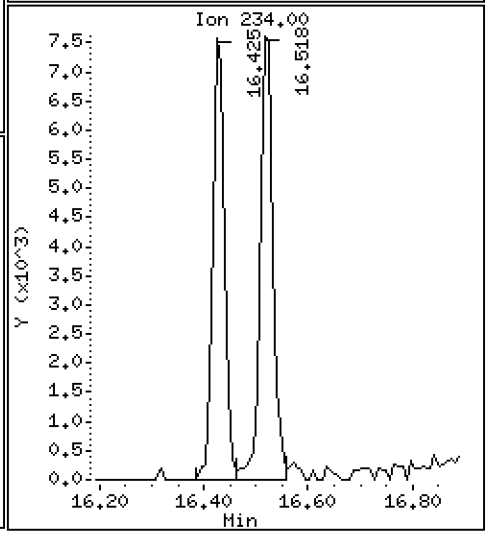


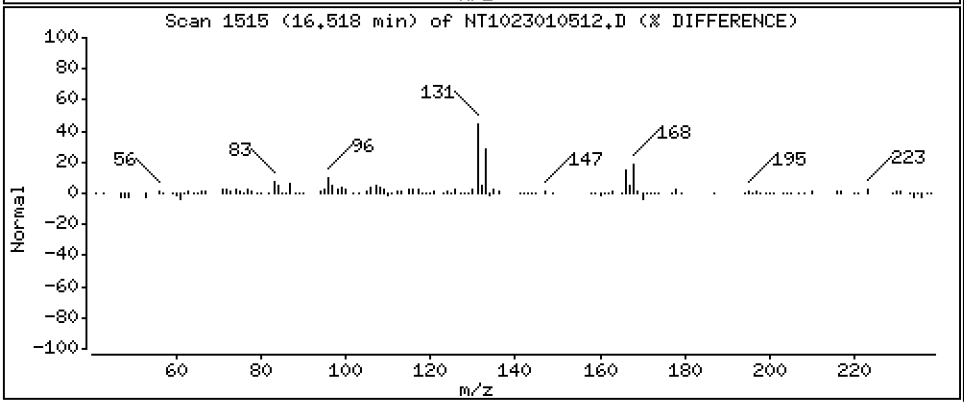












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010512.D
Lab Smp Id: BKL0489-MSD1
Inj Date : 05-JAN-2023 20:26
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.444	7.429	(0.770)	141375	6.47016	6.470
$	2 Phenol-d5	99	9.013	9.012	(0.932)	188916	7.17032	7.170
	3 Phenol	94	9.028	9.036	(0.934)	119199	4.72672	4.727
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.963)	178057	7.79392	7.794
	4 Bis(2-Chloroethyl)ether	93	9.198	9.205	(0.951)	95930	4.40563	4.406
	6 2-Chlorophenol	128	9.345	9.344	(0.966)	116046	4.79262	4.793
	7 1,3-Dichlorobenzene	146	9.608	9.623	(0.994)	112837	4.43946	4.439
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	66392	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.716	(1.003)	97234	4.44862	4.449
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	64204	4.51161	4.512
	12 1,2-Dichlorobenzene	146	10.065	10.073	(1.041)	100861	4.54761	4.548
	11 Benzyl alcohol	108	9.933	9.941	(1.027)	68252	5.66292	5.663
	14 2,2'-oxybis(1-Chloropropane)	121	10.228	10.244	(1.058)	36632	5.60869	5.609
	13 2-Methylphenol	108	10.151	10.158	(1.050)	77539	4.55313	4.553
	17 Hexachloroethane	117	10.663	10.679	(1.103)	40325	4.20227	4.202
	16 N-Nitroso-di-n-propylamine	70	10.485	10.500	(1.084)	46929	5.25384	5.254
	15 4-Methylphenol	108	10.423	10.422	(1.078)	85139	6.94668	6.947
$	18 Nitrobenzene-d5	82	10.764	10.779	(0.885)	86458	5.20232	5.202
	19 Nitrobenzene	77	10.803	10.810	(0.888)	81967	5.39424	5.394
	20 Isophorone	82	11.245	11.261	(0.924)	173285	7.21159	7.212
	21 2-Nitrophenol	139	11.434	11.442	(0.940)	70495	5.03120	5.031
	22 2,4-Dimethylphenol	107	11.468	11.476	(0.942)	324975	17.0300	17.03
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	94343	5.70946	5.709
	24 Benzoic acid	105	11.654	11.671	(0.958)	234326	27.1437	27.14
	25 2,4-Dichlorophenol	162	11.892	11.900	(0.977)	279401	18.0733	18.07
	26 1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	81741	5.14309	5.143
*	27 Naphthalene-d8	136	12.170	12.185	(1.000)	247057	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	291383	5.36363	5.364
	29 4-Chloroaniline	127	12.363	12.339	(1.016)	25269	1.19766	1.198
	30 Hexachlorobutadiene	225	12.564	12.579	(1.032)	29099	4.92680	4.927
	31 4-Chloro-3-methylphenol	107	13.276	13.291	(1.091)	307226	18.0165	18.02
	32 2-Methylnaphthalene	142	13.608	13.624	(1.118)	227043	5.28409	5.284
	33 Hexachlorocyclopentadiene	237	14.065	14.088	(0.891)	39860	6.92913	6.929

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.220	14.235	(0.901)	193613	20.6899	20.69
35	2,4,5-Trichlorophenol	196	14.305	14.312	(0.906)	199556	19.5754	19.58
$ 36	2-Fluorobiphenyl	172	14.375	14.398	(0.910)	201433	5.20502	5.205
37	2-Chloronaphthalene	162	14.607	14.622	(0.925)	184941	5.34912	5.349
38	2-Nitroaniline	65	14.847	14.862	(0.940)	99183	19.3301	19.33
39	Dimethylphthalate	163	15.265	15.280	(0.967)	175116	5.55888	5.559
40	Acenaphthylene	152	15.481	15.497	(0.980)	261340	5.26131	5.261
41	2,6-Dinitrotoluene	165	15.412	15.427	(0.976)	143420	20.0440	20.04
* 42	Acenaphthene-d10	164	15.791	15.814	(1.000)	104461	4.00000	
43	3-Nitroaniline	138	15.714	15.721	(0.995)	40563	7.81015	7.810
44	Acenaphthene	153	15.860	15.876	(1.004)	155993	5.65908	5.659
45	2,4-Dinitrophenol	184	15.915	15.938	(1.008)	105592	21.2018	21.20
46	Dibenzofuran	168	16.193	16.208	(1.025)	223823	5.34365	5.344
47	4-Nitrophenol	109	16.023	16.038	(1.015)	87838	20.4110	20.41
48	2,4-Dinitrotoluene	165	16.232	16.247	(1.028)	195393	20.3511	20.35
50	Diethylphthalate	149	16.726	16.742	(1.059)	209528	6.30646	6.306
49	Fluorene	166	16.904	16.919	(1.070)	359836	5.85182	5.852
51	4-Chlorophenyl-phenylether	204	16.881	16.896	(1.069)	120198	6.08597	6.086
52	4-Nitroaniline	138	16.981	17.004	(1.075)	125117	8.90821	8.908
53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	299257	37.6669	37.67
54	N-Nitrosodiphenylamine	169	17.128	17.143	(0.909)	168128	5.22107	5.221
$ 55	2,4,6-Tribromophenol	330	17.444	17.459	(1.105)	18538	8.53142	8.531
56	4-Bromophenyl-phenylether	248	17.891	17.914	(0.949)	47322	5.58203	5.582
57	Hexachlorobenzene	284	18.223	18.238	(0.967)	39364	5.42963	5.430
58	Pentachlorophenol	266	18.579	18.594	(0.986)	47383	28.9119	28.91
* 59	Phenanthrene-d10	188	18.850	18.865	(1.000)	173975	4.00000	
60	Phenanthrene	178	18.904	18.919	(1.003)	247534	5.86455	5.865
61	Anthracene	178	18.989	19.005	(1.007)	202913	4.92469	4.925
62	Carbazole	167	19.306	19.322	(1.024)	237122	5.34065	5.341
63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	372712	5.96839	5.968
64	Fluoranthene	202	21.279	21.271	(0.892)	213933	4.67936	4.679
65	Pyrene	202	21.682	21.689	(0.909)	222410	4.83054	4.831
$ 66	Terphenyl-d14	244	21.929	21.952	(0.919)	115368	4.32471	4.325
67	Butylbenzylphthalate	149	22.835	22.851	(0.957)	133710	5.37351	5.374
68	Benzo(a)anthracene	228	23.826	23.842	(0.999)	172596	5.43693	5.437
* 69	Chrysene-d12	240	23.850	23.873	(1.000)	110091	4.00000	
70	3,3'-Dichlorobenzidine	252	23.765	23.780	(0.996)	3199	0.29209	0.2921
71	Chrysene	228	23.904	23.919	(1.002)	149955	5.50276	5.503
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	271760	5.91051	5.911
* 134	Di-n-octylphthalate-d4	153	24.903	24.926	(1.000)	299400	4.00000	
73	Di-n-octylphthalate	149	24.918	24.941	(1.001)	380051	5.48931	5.489
74	Benzo(b)fluoranthene	252	25.909	25.932	(0.966)	156613	4.86641	4.866
75	Benzo(k)fluoranthene	252	25.963	25.978	(0.969)	147373	4.70006	4.700
76	Benzo(a)pyrene	252	26.668	26.691	(0.995)	137012	4.46452	4.465
* 77	Perylene-d12	264	26.807	26.822	(1.000)	89342	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.947	29.946	(1.117)	115997	4.80860	4.809
79	Dibenzo(a,h)anthracene	278	29.954	29.970	(1.117)	96094	5.06960	5.070
80	Benzo(g,h,i)perylene	276	30.863	30.886	(1.151)	96338	4.84051	4.841
90	N-Nitrosodimethylamine	74	5.274	5.282	(0.545)	150728	12.0670	12.07
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.450	21.480	(0.899)	262	0.01296	0.01296
103	Pyridine	79	5.297	5.290	(0.548)	59386	1.67899	1.679
105	1-methylnaphthalene	142	13.833	13.848	(1.137)	216256	5.15092	5.151
111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	209835	5.09339	5.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.963	25.978	(0.969)	291209	9.55641	9.556
120 2,3,4,6-Tetrachlorophenol	232	16.518	16.541	(1.046)	27650	5.09853	5.099

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010512.D
Lab Smp Id: BKL0489-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	66392	-18.76
27 Naphthalene-d8	307034	153517	614068	247057	-19.53
42 Acenaphthene-d10	140557	70279	281114	104461	-25.68
59 Phenanthrene-d10	243620	121810	487240	173975	-28.59
69 Chrysene-d12	144852	72426	289704	110091	-24.00
134 Di-n-octylphthala	387178	193589	774356	299400	-22.67
77 Perylene-d12	106683	53342	213366	89342	-16.25

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.81	-0.06

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010512.D

Lab ID: BKL0489-MSD1
nt10.i, ABN.m, 05-JAN-2023 20:26

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/06/23 21:15
Batch:	BKL0585	Laboratory ID:	BKL0585-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	12.55 g / 1 mL	Source Sample:	LDW22-IT809D

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Butylbenzylphthalate	500	ND	U	676	*, Q	135 *	45 - 132

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/06/23 21:51
Batch:	BKL0585	Laboratory ID:	BKL0585-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	12.55 g / 1 mL	Source Sample:	LDW22-IT809D

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Butylbenzylphthalate	500	758	*, Q	152 *	11.5	30	45 - 132

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010617.D

Date : 06-JAN-2023 21:15

Client ID:

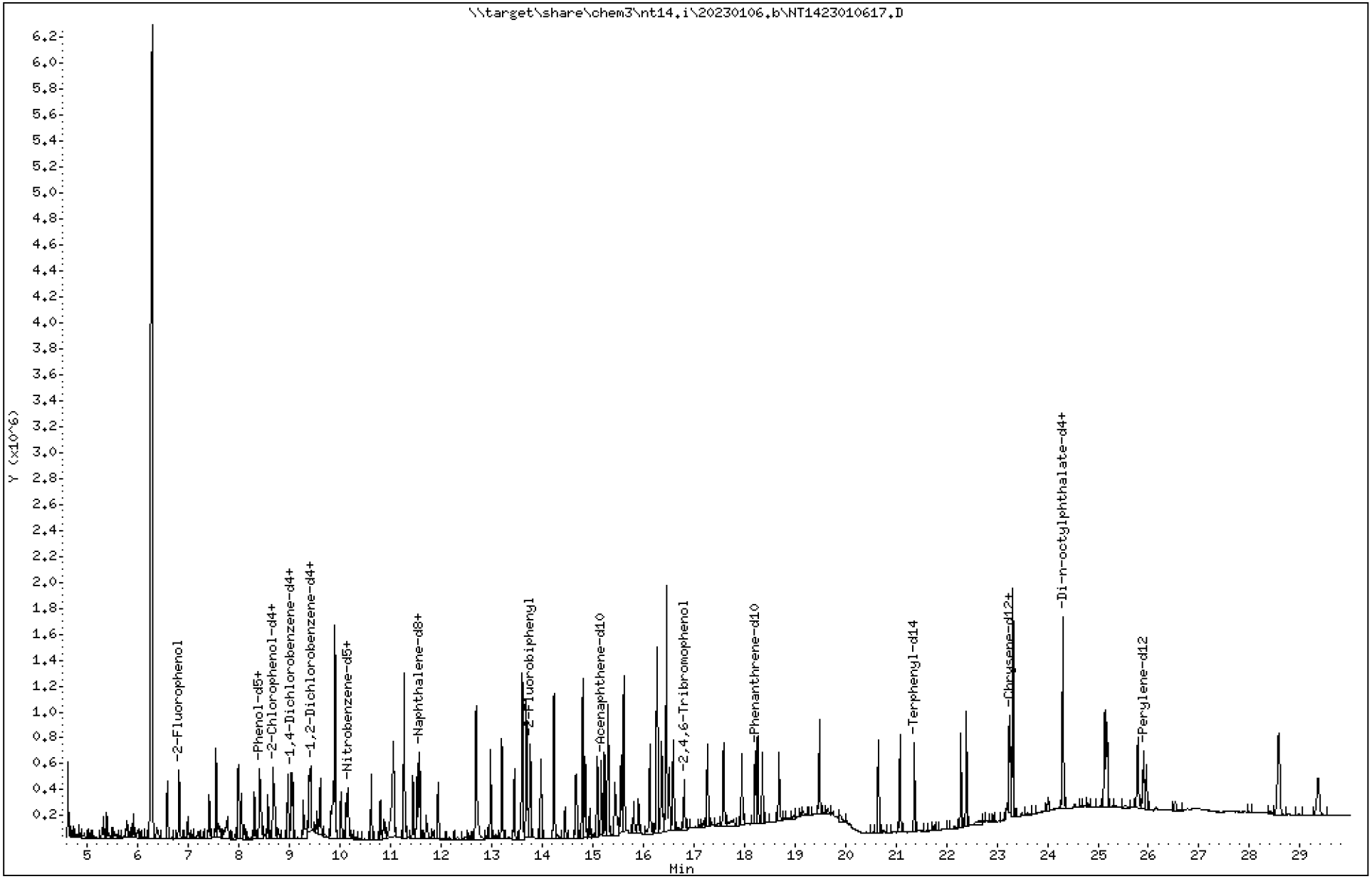
Instrument: nt14.i

Sample Info: BKL0585-MS1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

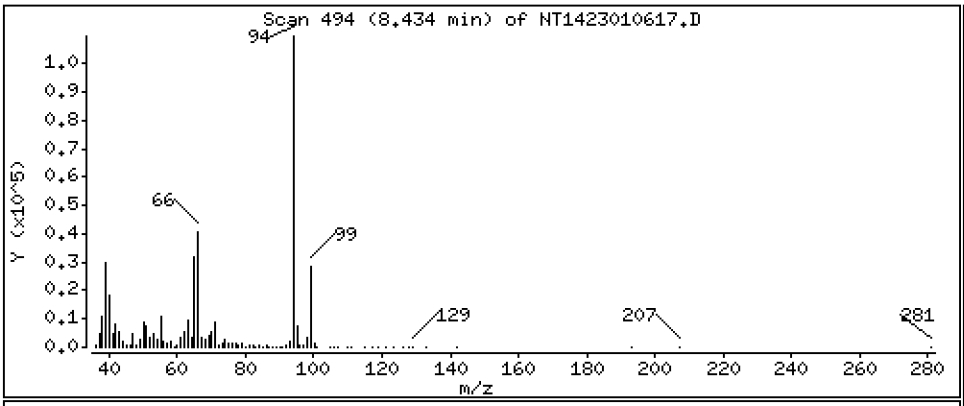
Operator: VTS

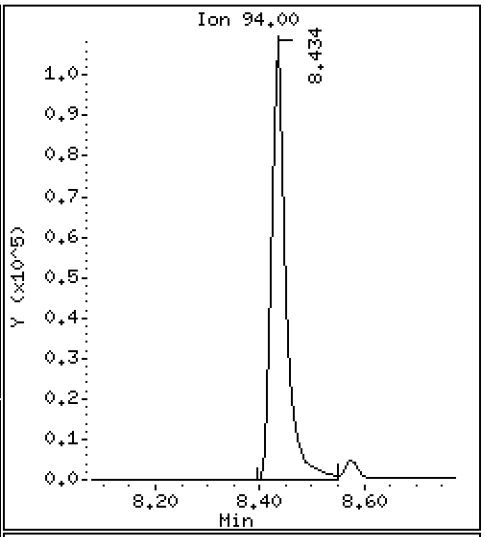
Column phase: ZB-5msi

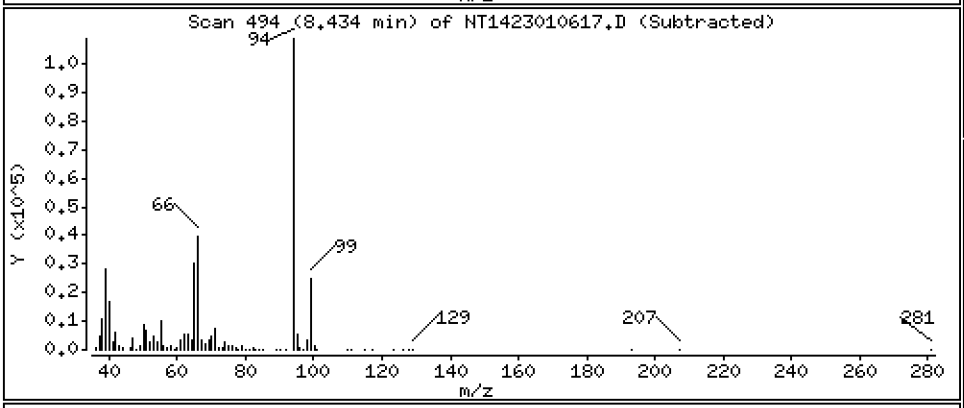
Column diameter: 0.25

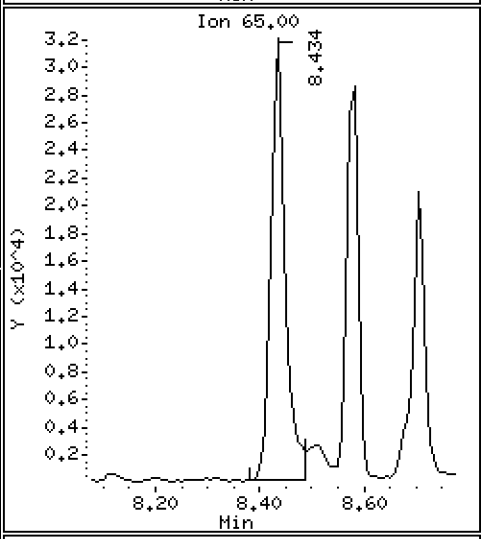
3 Phenol

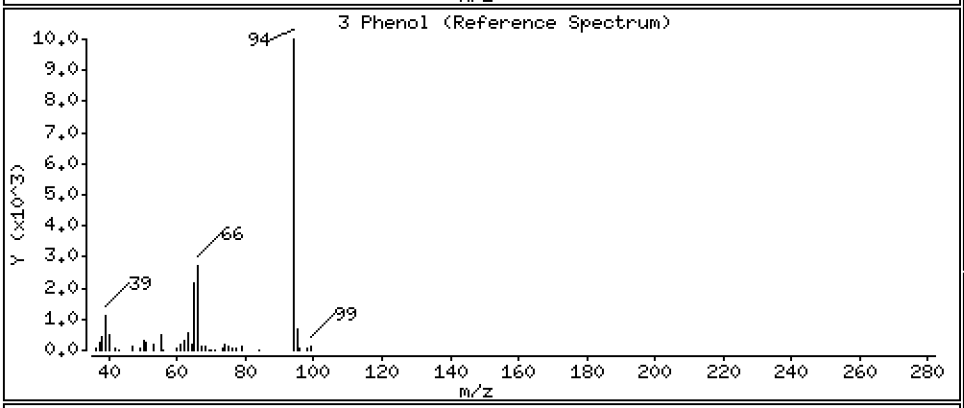
Concentration: 3.872 ug/mL

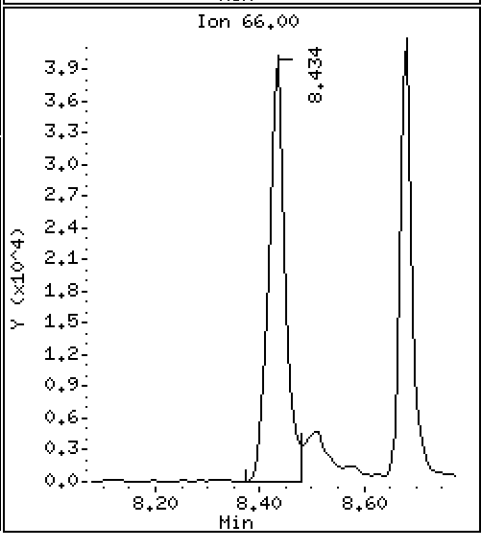


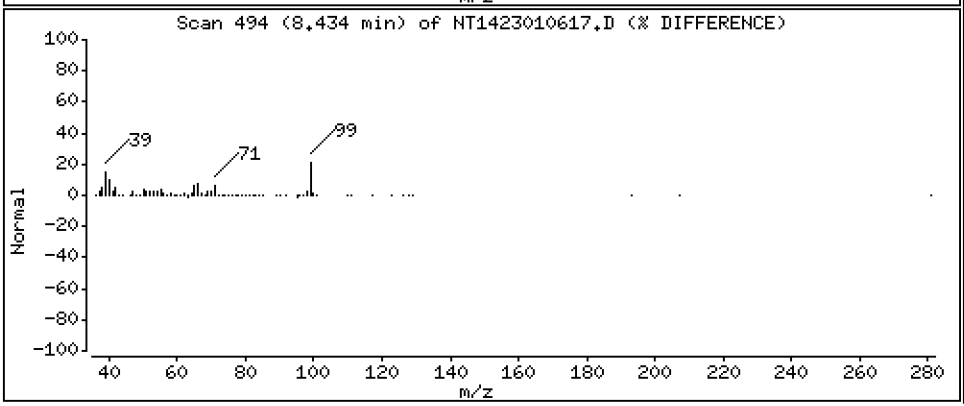












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010617.D

Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

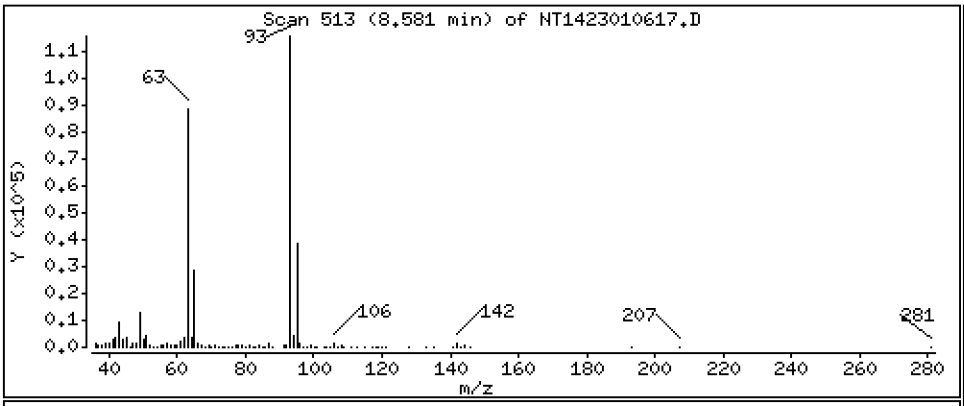
Operator: VTS

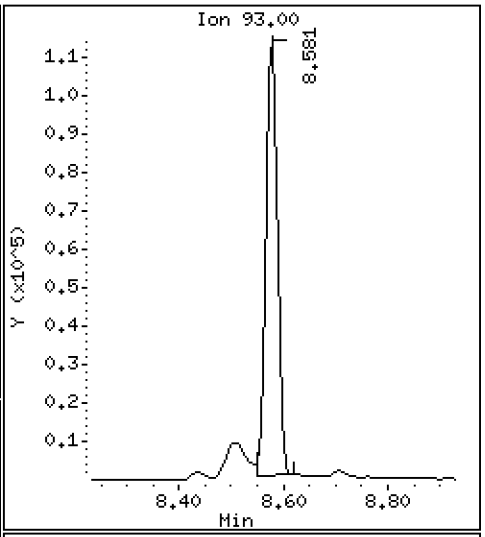
Column phase: ZB-5msi

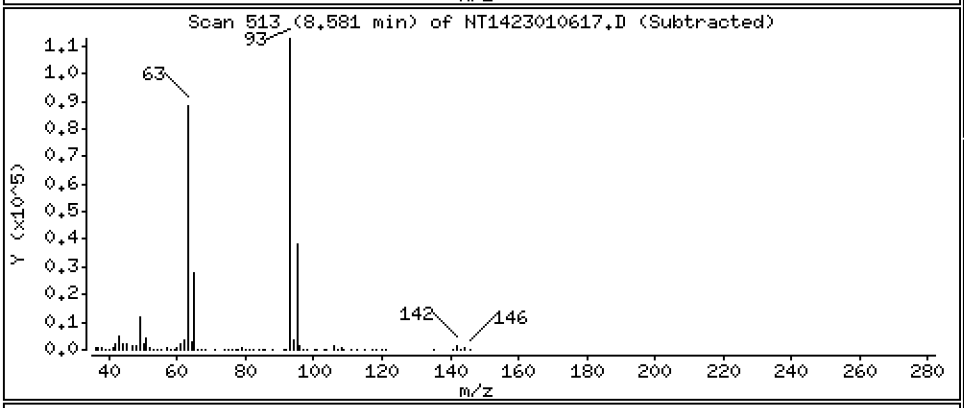
Column diameter: 0.25

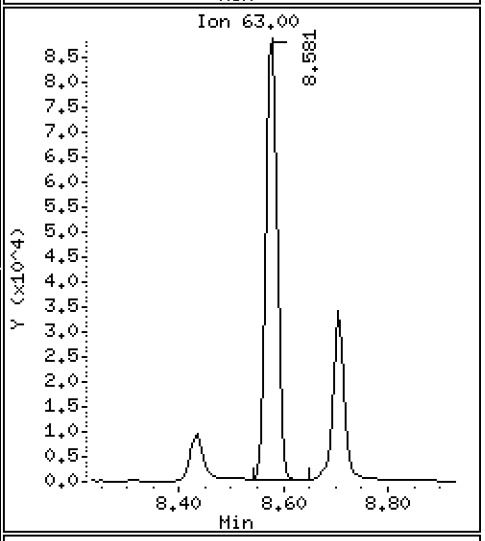
4 Bis(2-Chloroethyl)ether

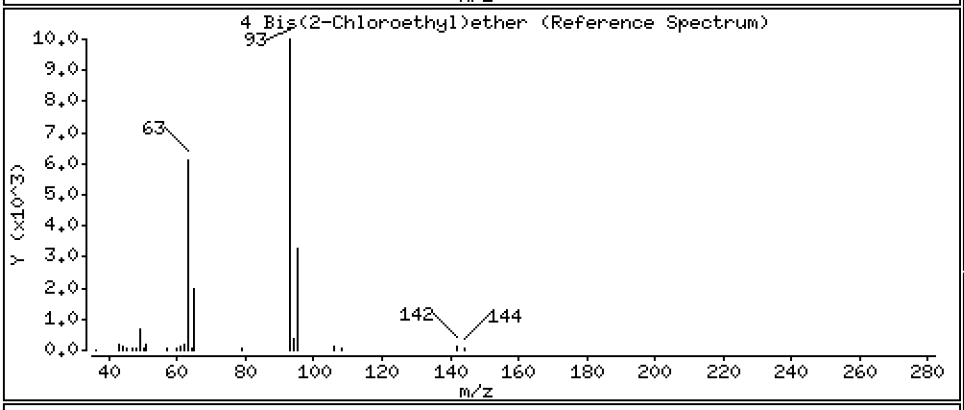
Concentration: 4.564 ug/mL

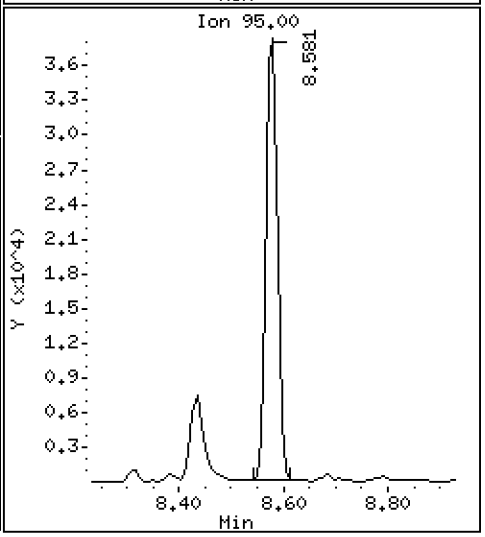


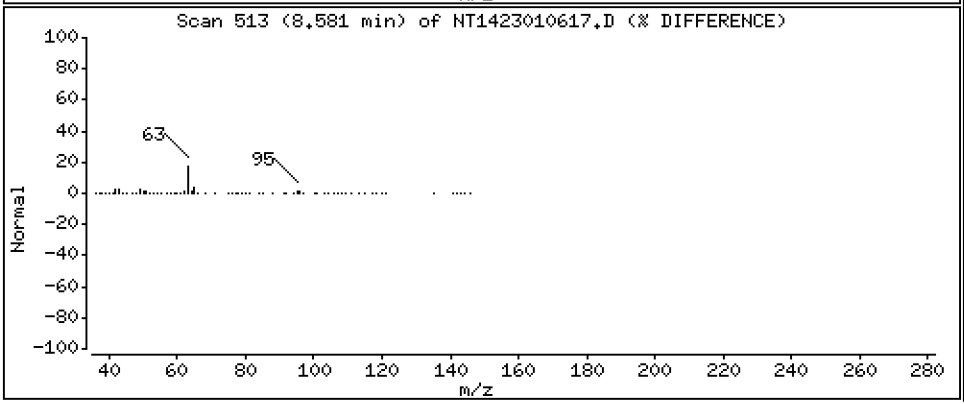












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010617.D

Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

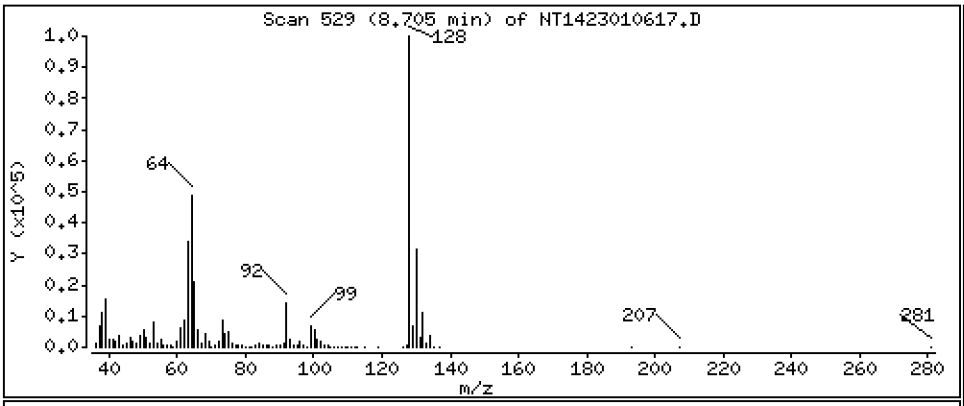
Operator: VTS

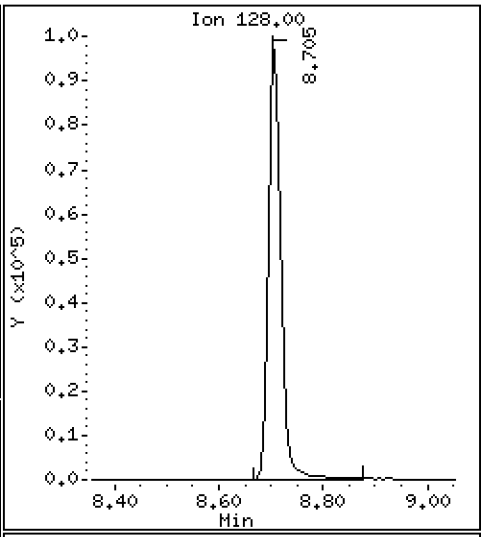
Column phase: ZB-5msi

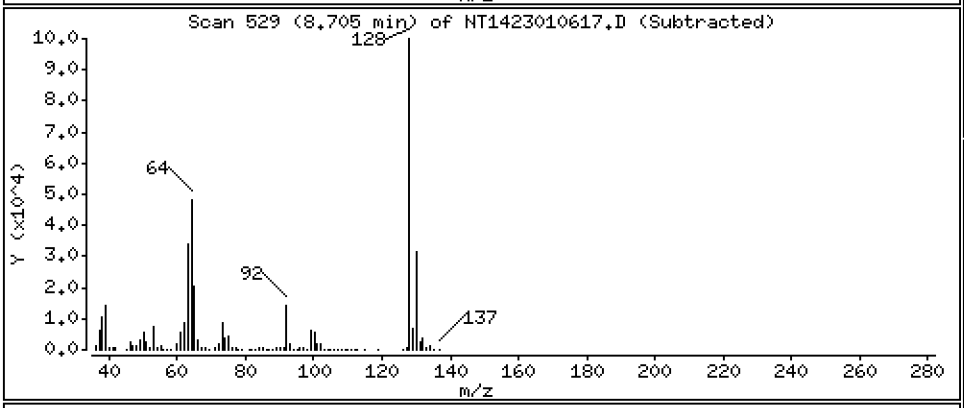
Column diameter: 0.25

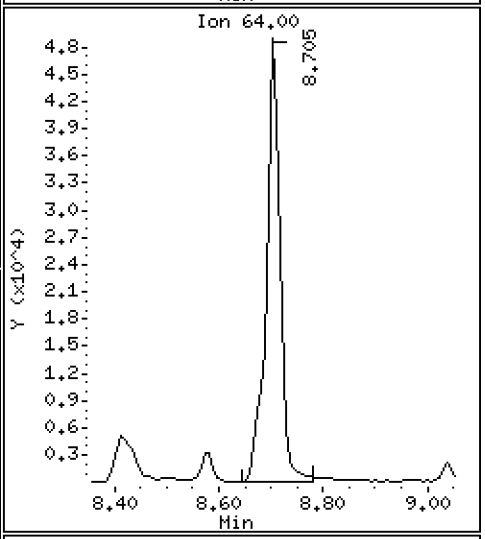
6 2-Chlorophenol

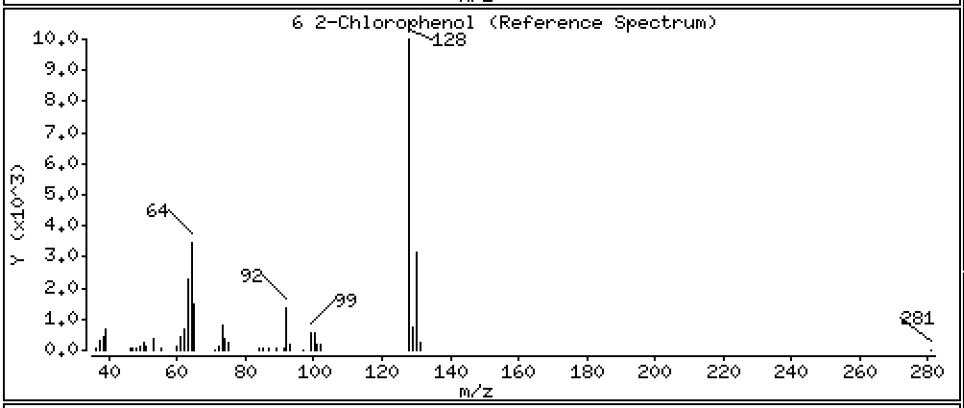
Concentration: 4.008 ug/mL

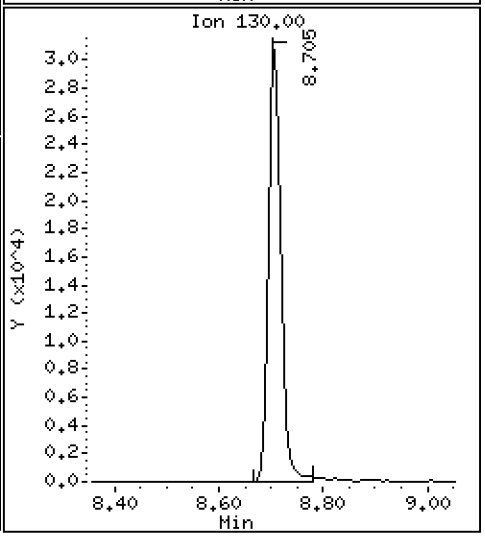


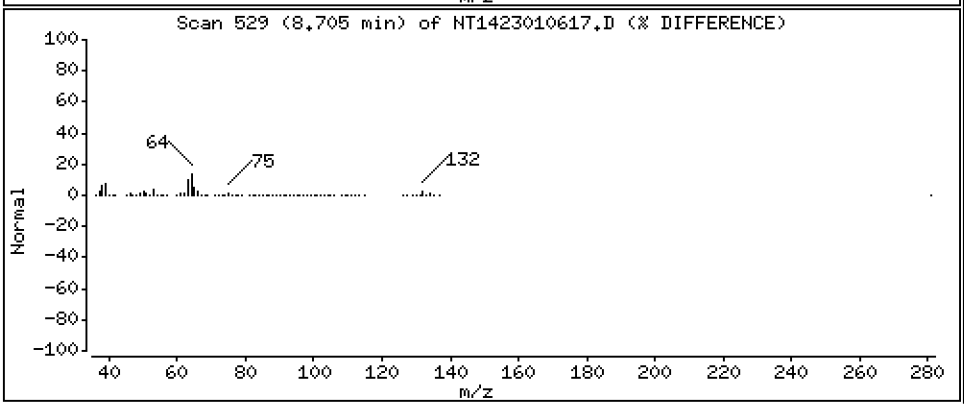












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

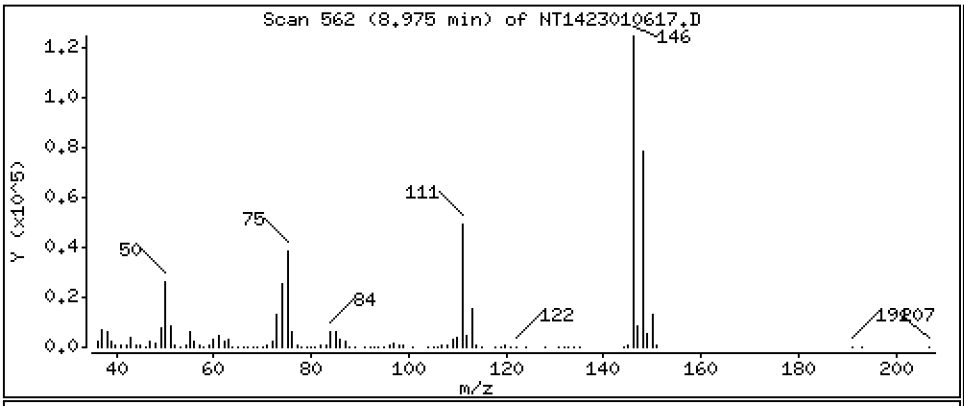
Operator: VTS

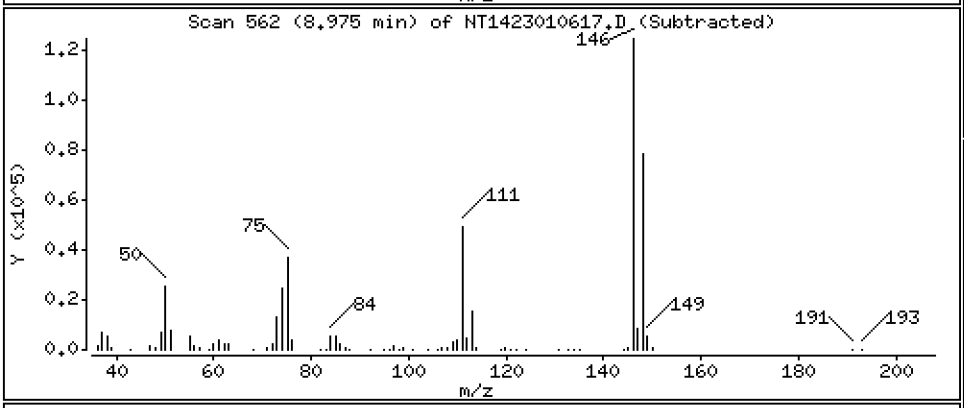
Column phase: ZB-5msi

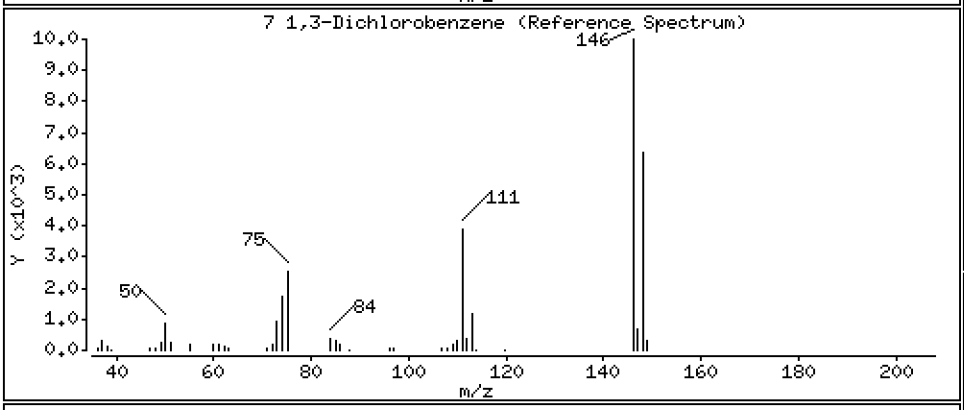
Column diameter: 0.25

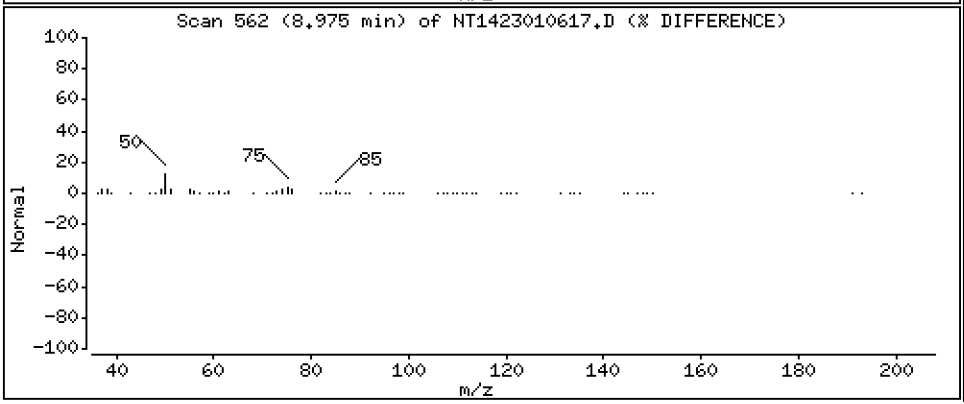
7 1,3-Dichlorobenzene

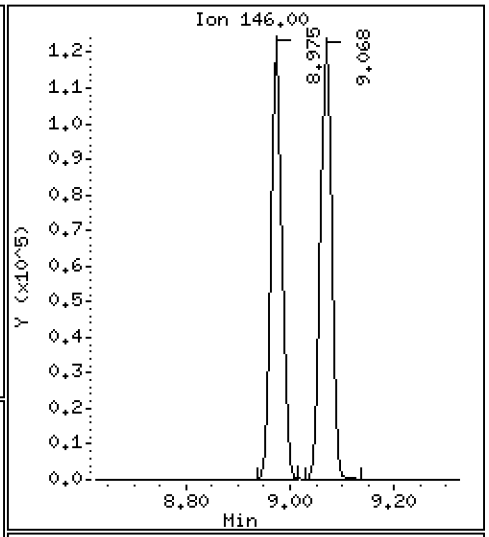
Concentration: 3.928 ug/mL

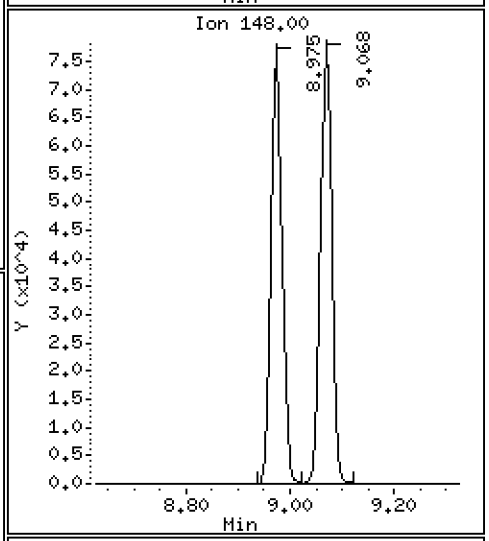


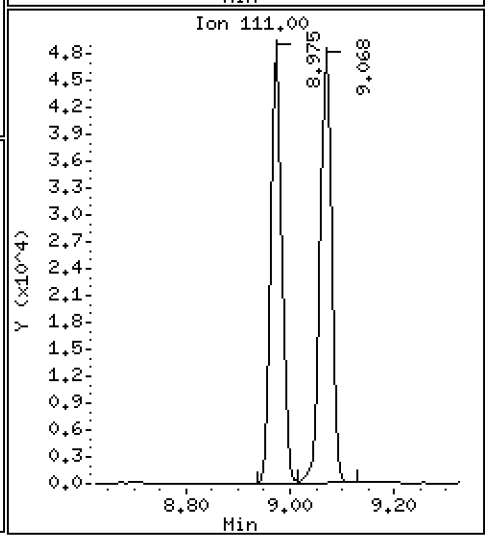












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

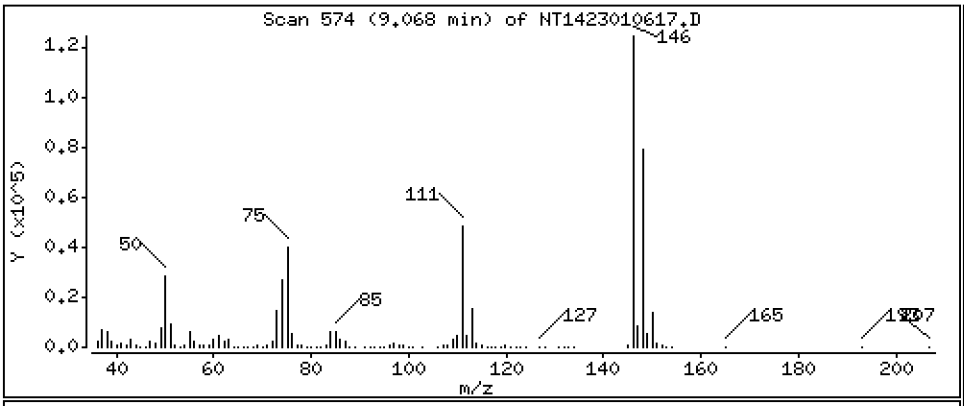
Operator: VTS

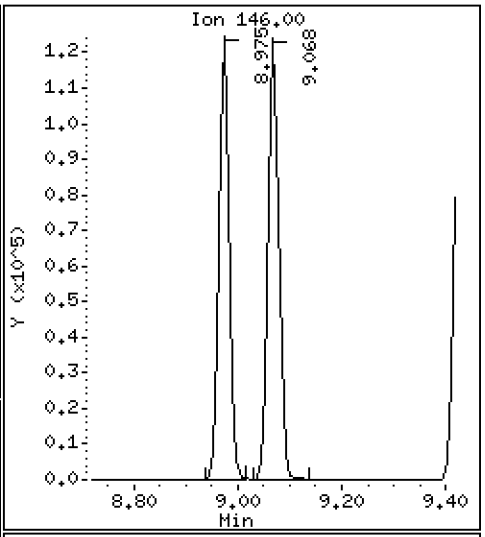
Column phase: ZB-5msi

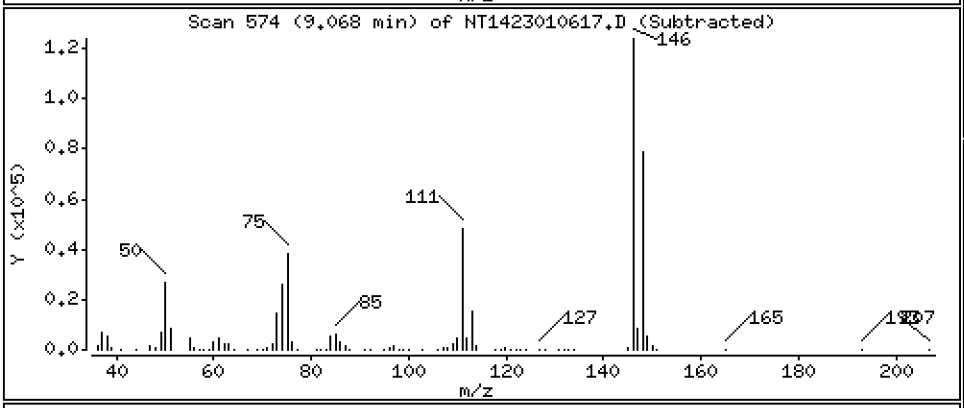
Column diameter: 0.25

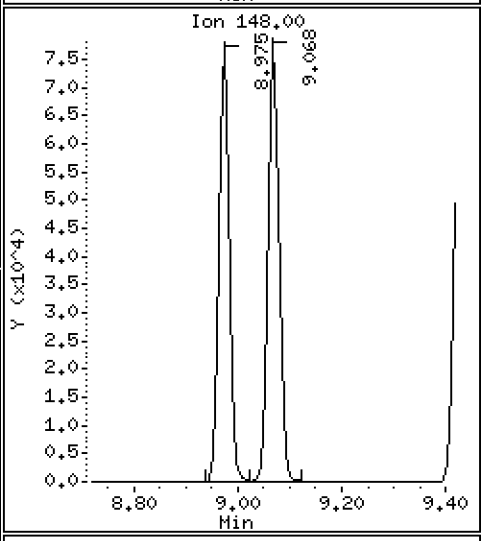
9 1,4-Dichlorobenzene

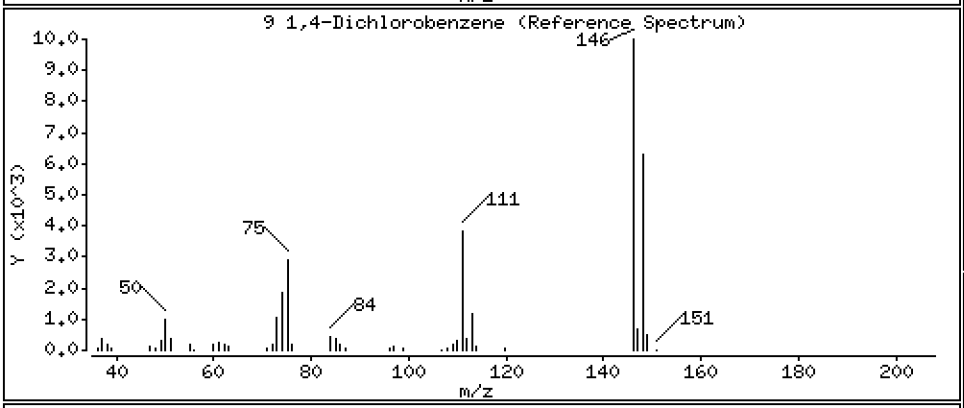
Concentration: 4.078 ug/mL

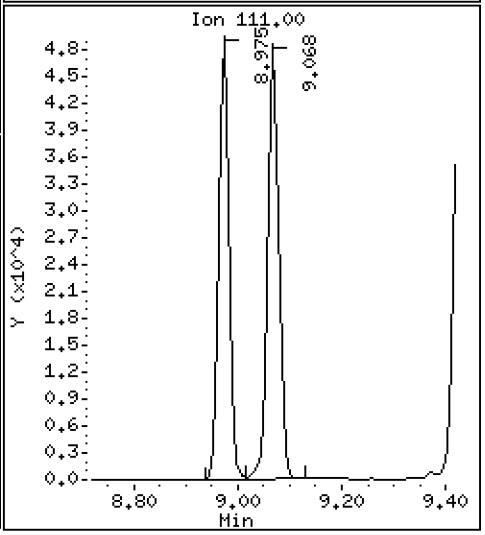


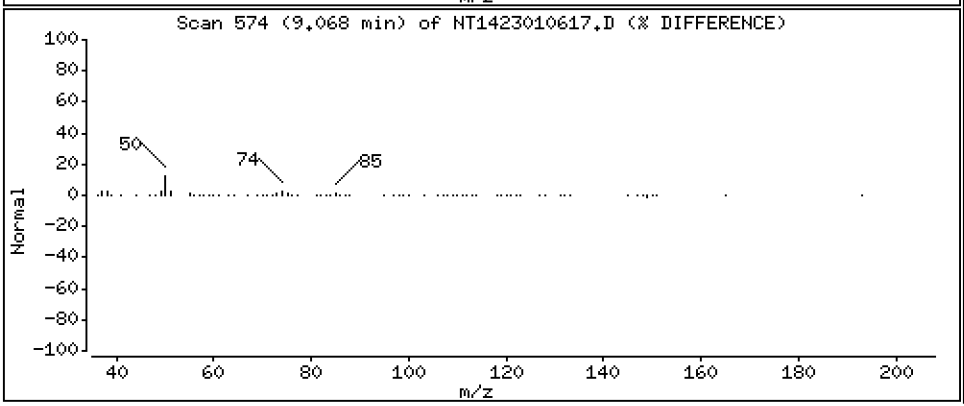












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010617.D

Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

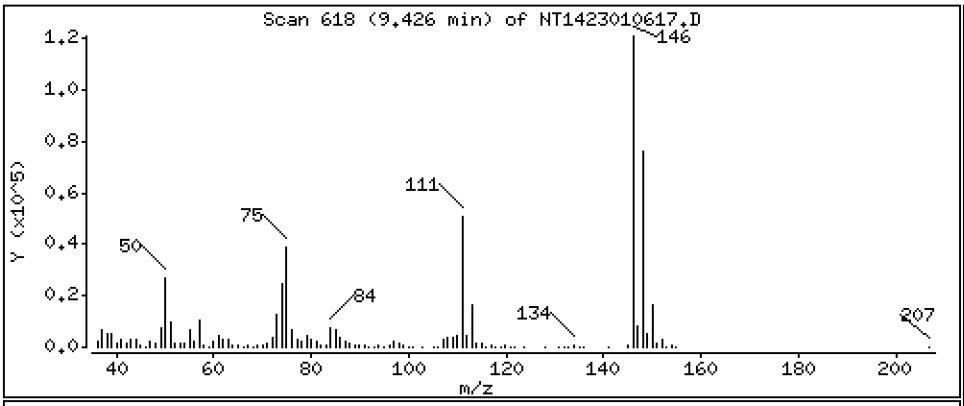
Operator: VTS

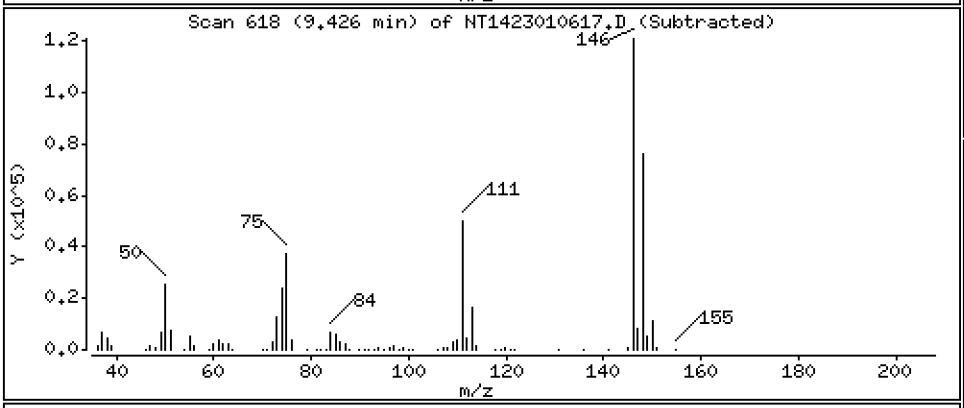
Column phase: ZB-5msi

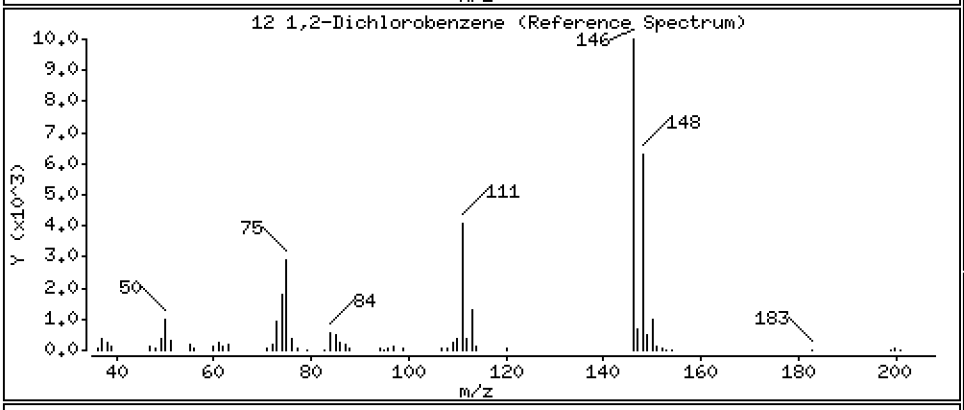
Column diameter: 0.25

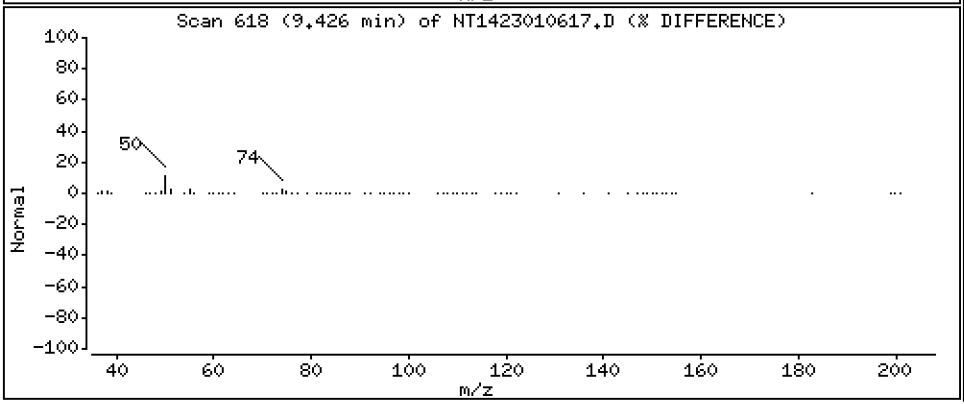
12 1,2-Dichlorobenzene

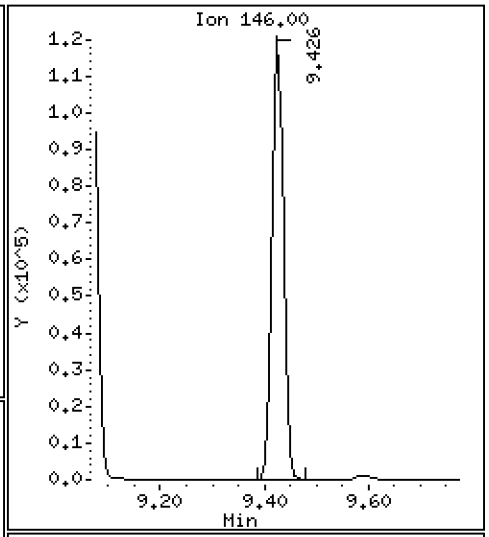
Concentration: 4.099 ug/mL

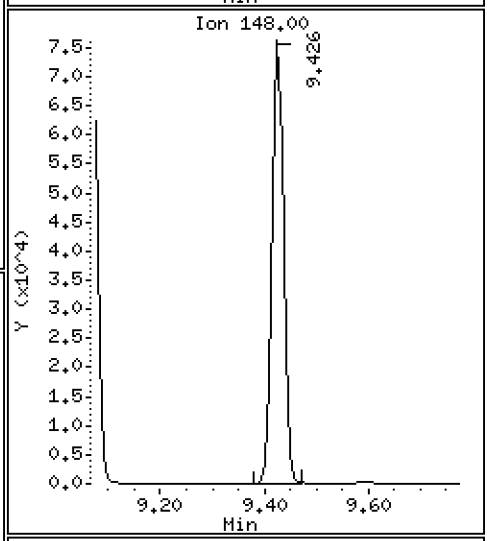


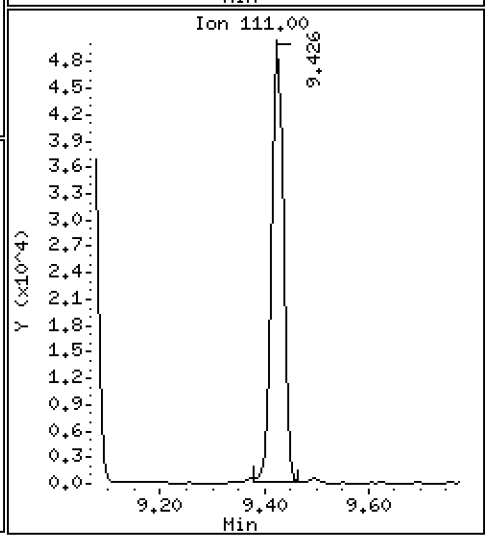












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

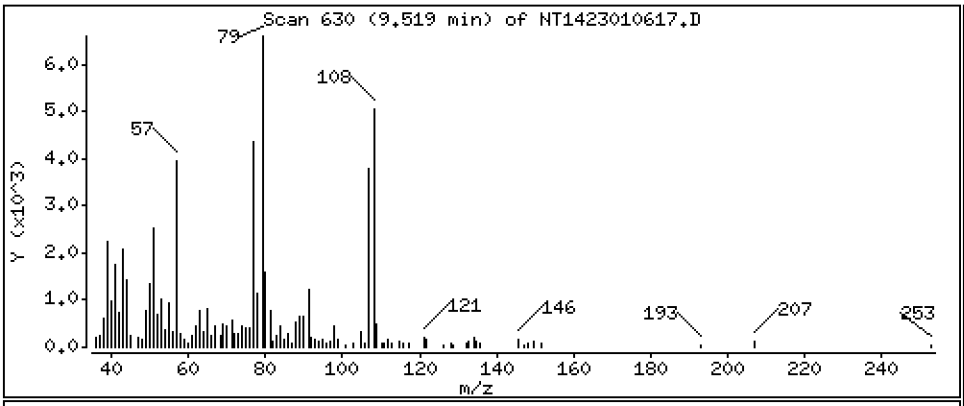
Operator: VTS

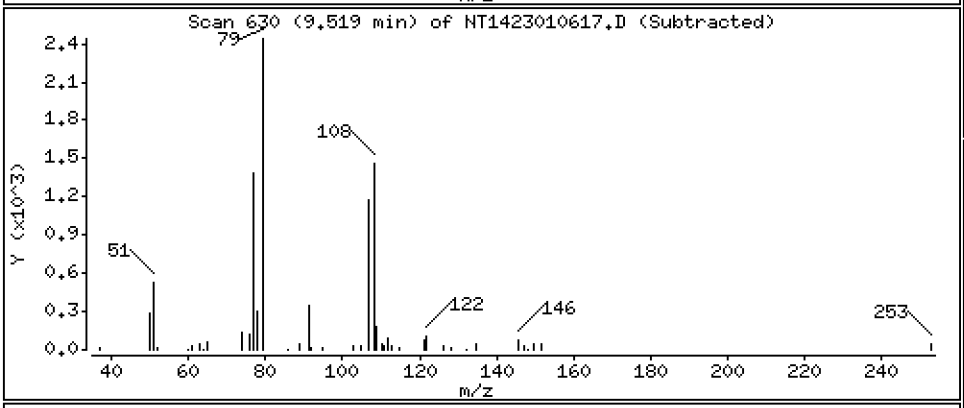
Column phase: ZB-5msi

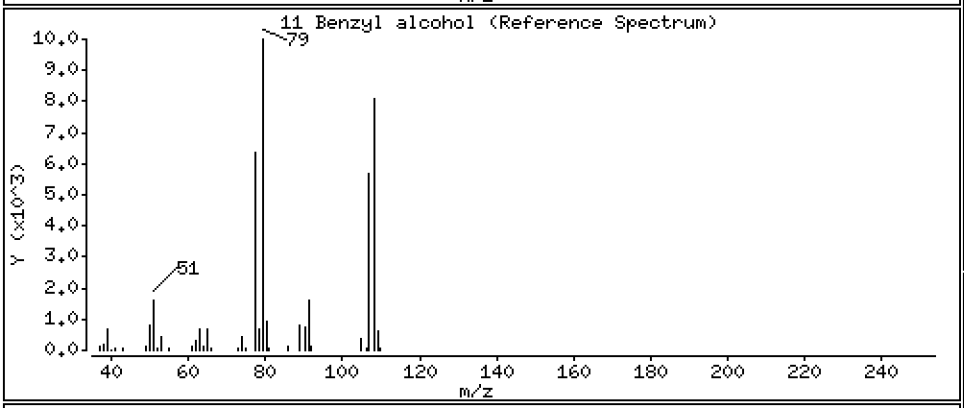
Column diameter: 0.25

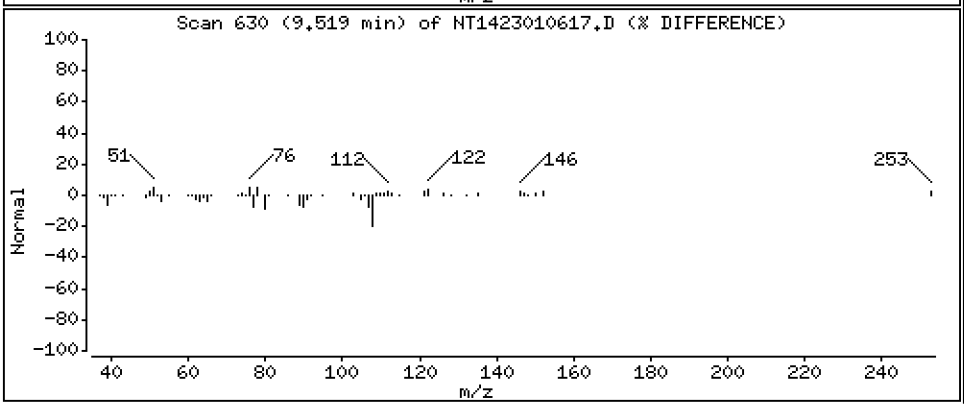
11 Benzyl alcohol

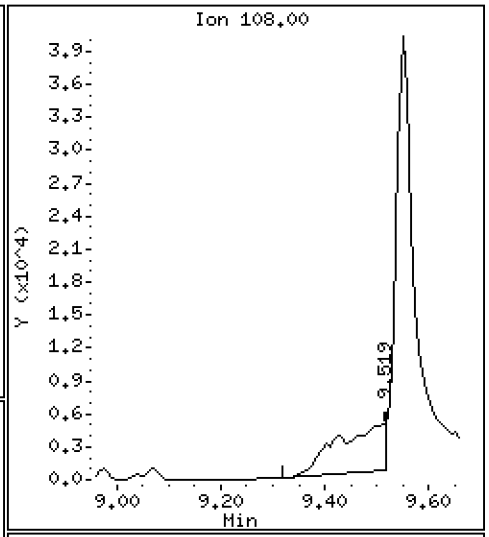
Concentration: 1.224 ug/mL

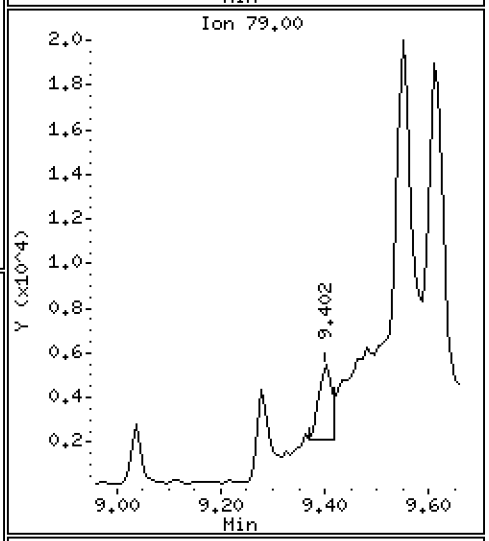


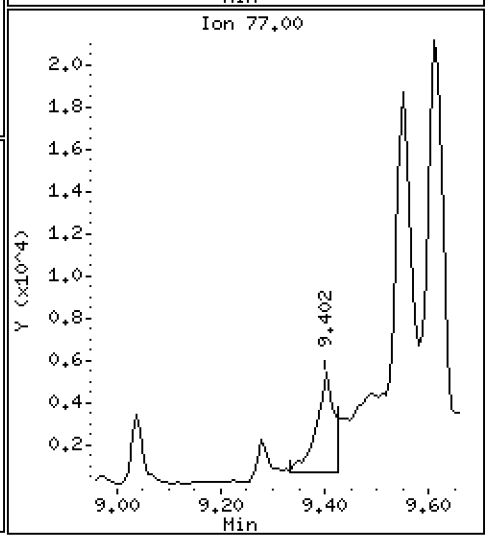












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

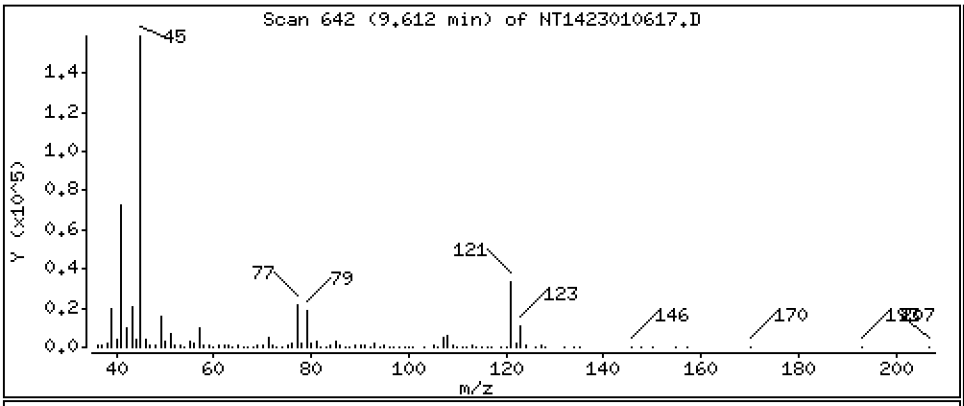
Operator: VTS

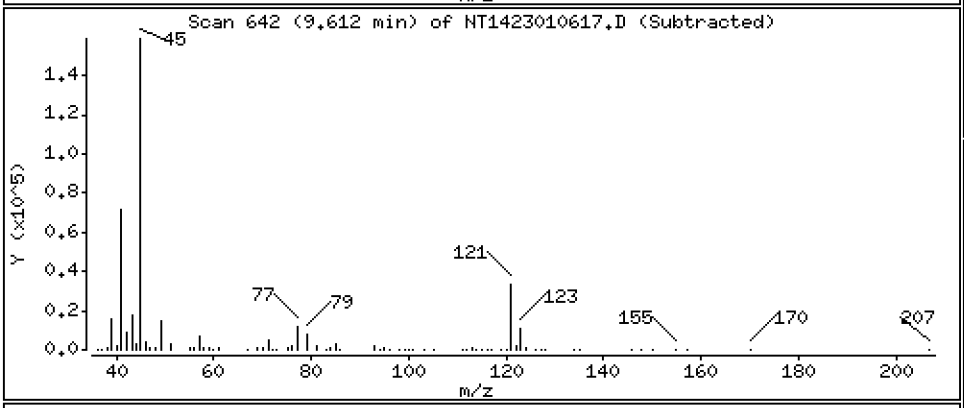
Column phase: ZB-5msi

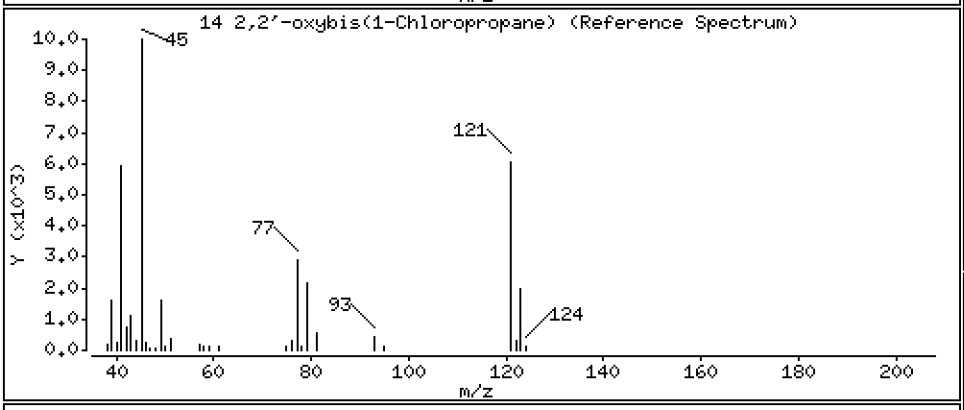
Column diameter: 0.25

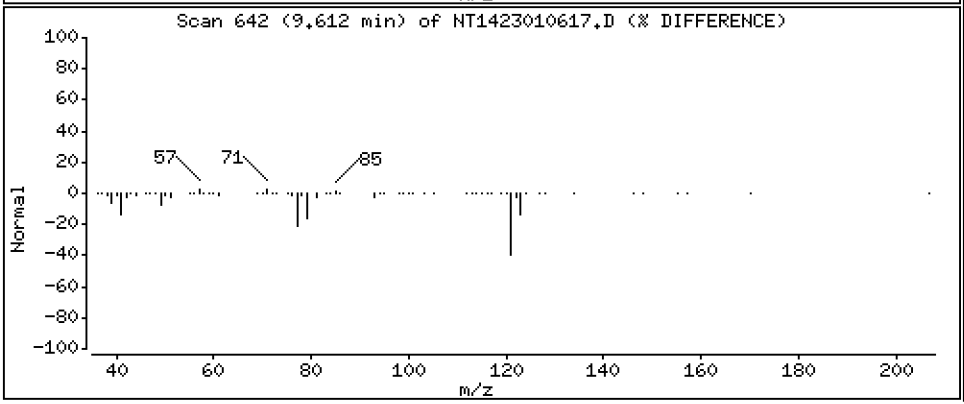
14 2,2'-oxybis(1-Chloropropane)

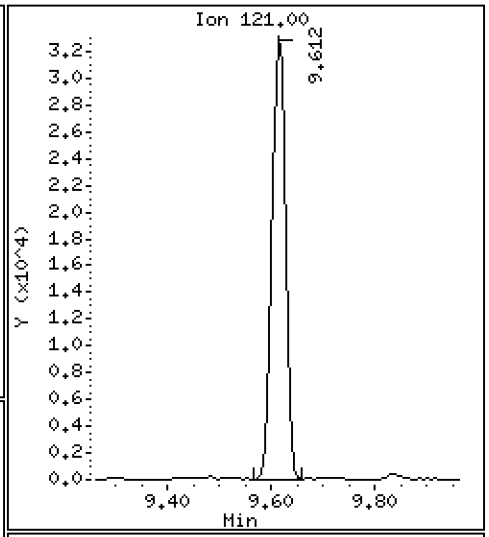
Concentration: 4.720 ug/mL

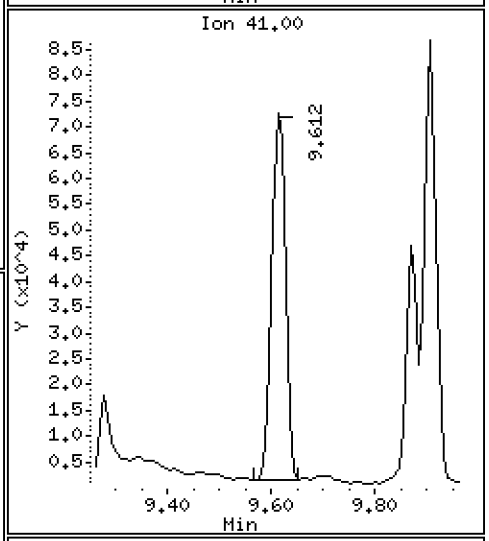


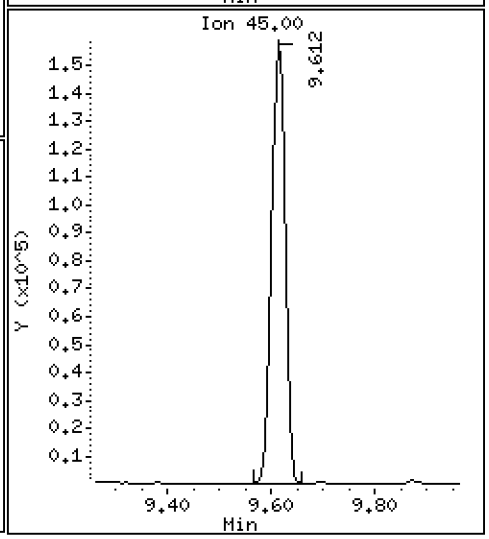












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

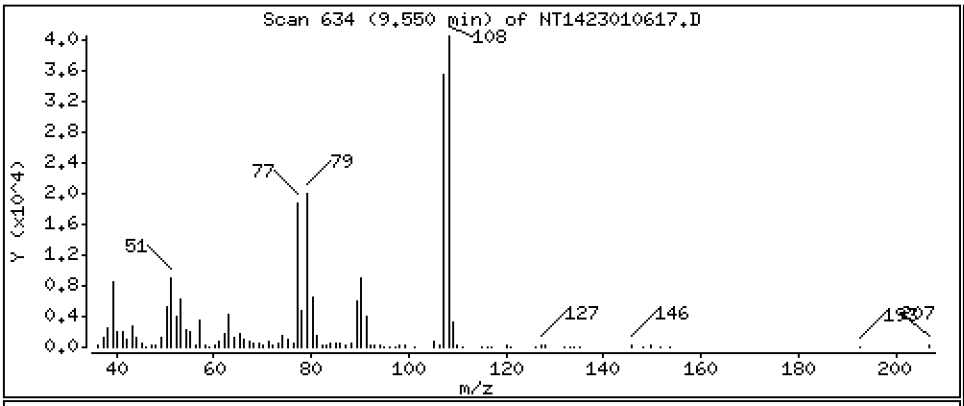
Operator: VTS

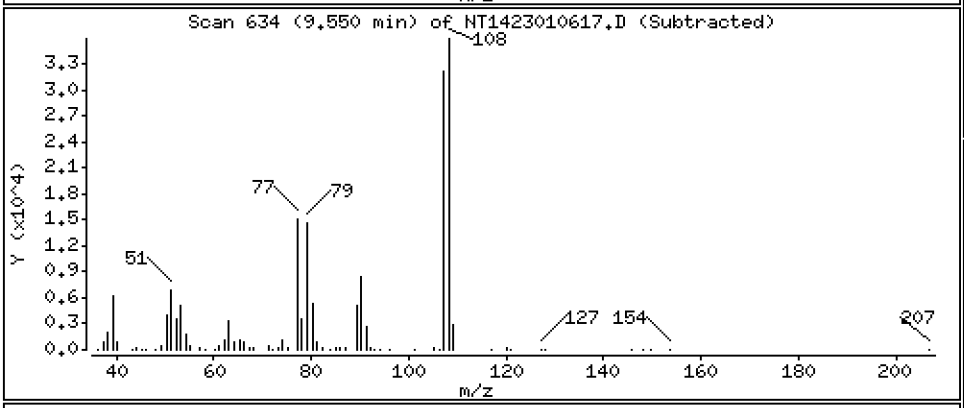
Column phase: ZB-5msi

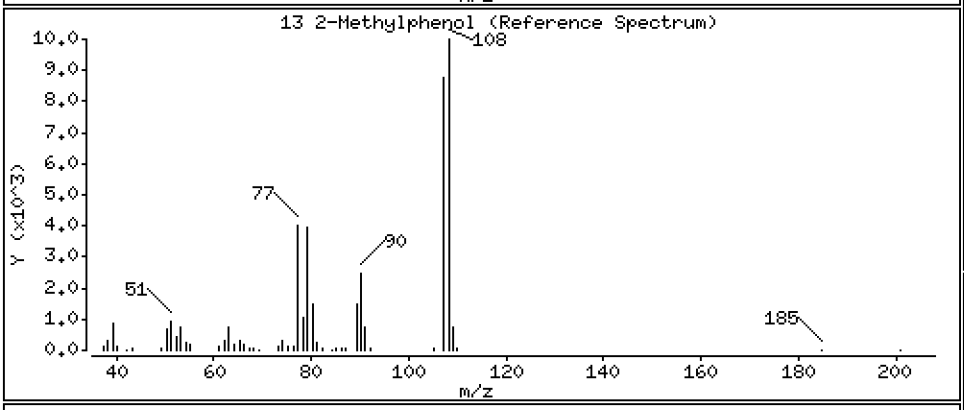
Column diameter: 0.25

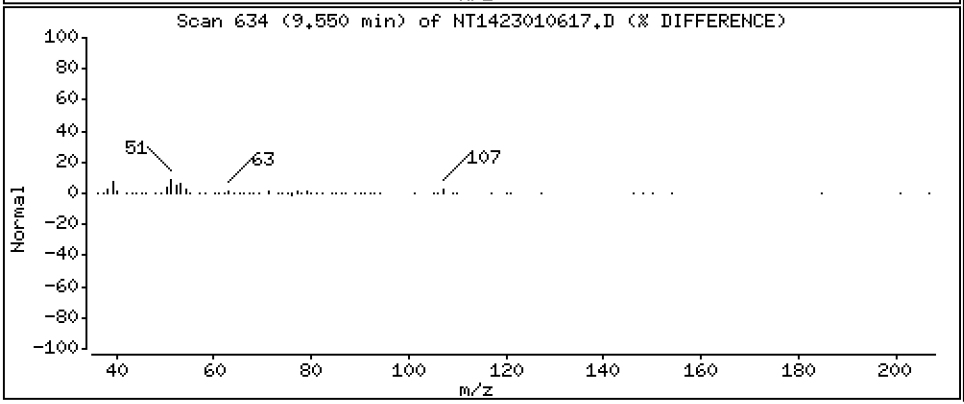
13 2-Methylphenol

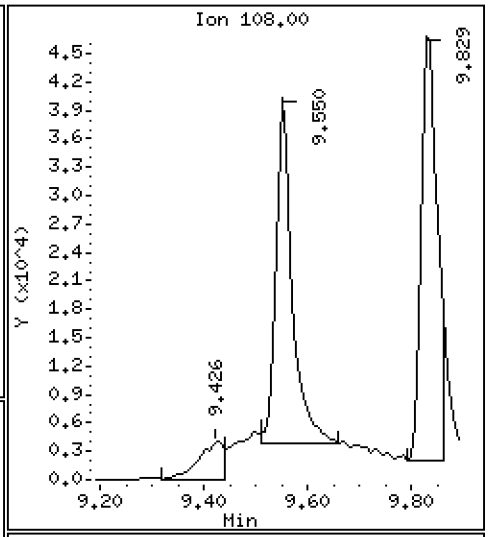
Concentration: 2.059 ug/mL

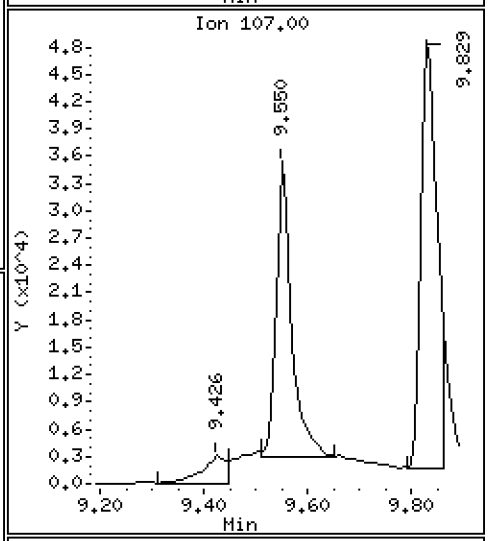


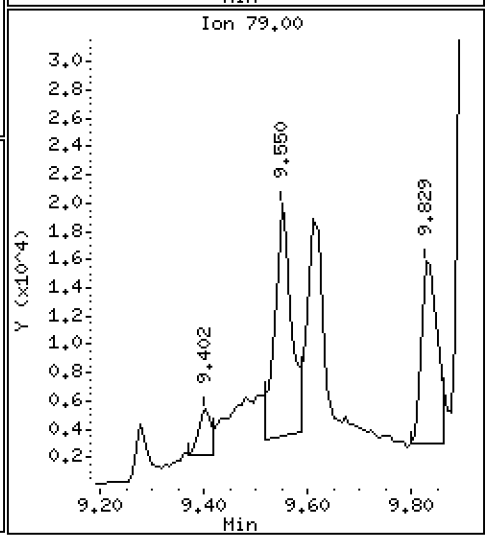












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

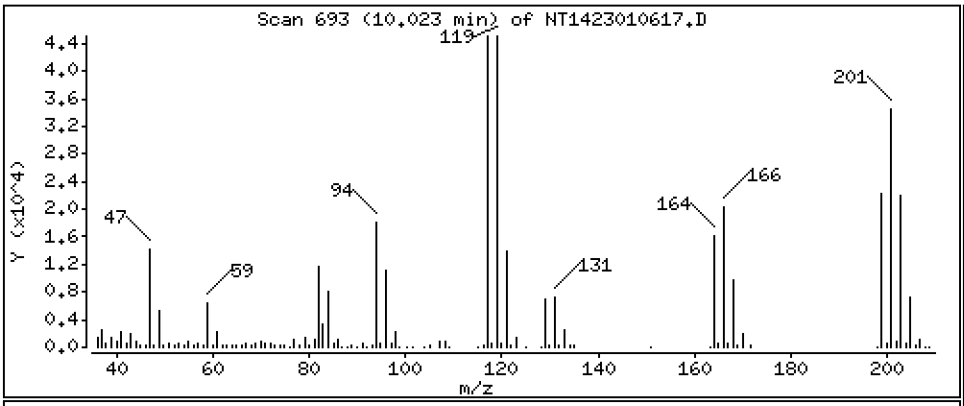
Operator: VTS

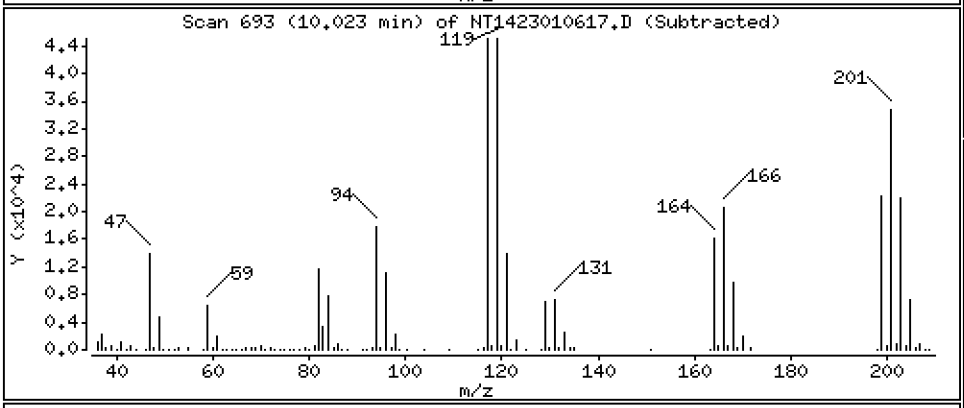
Column phase: ZB-5msi

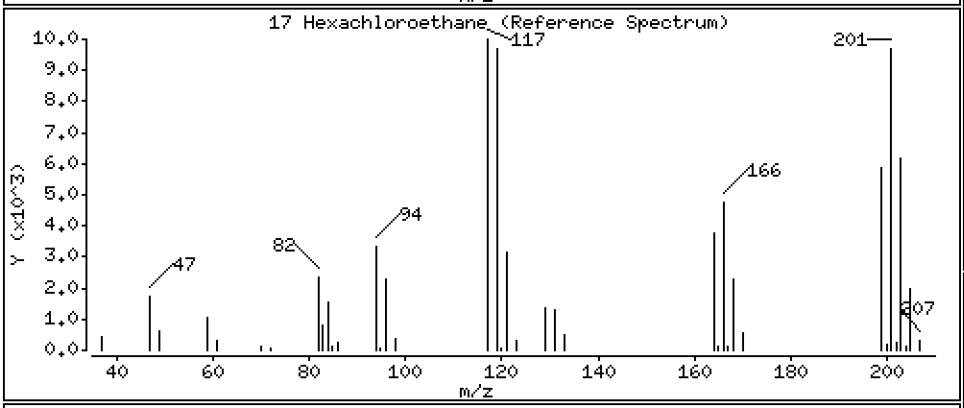
Column diameter: 0.25

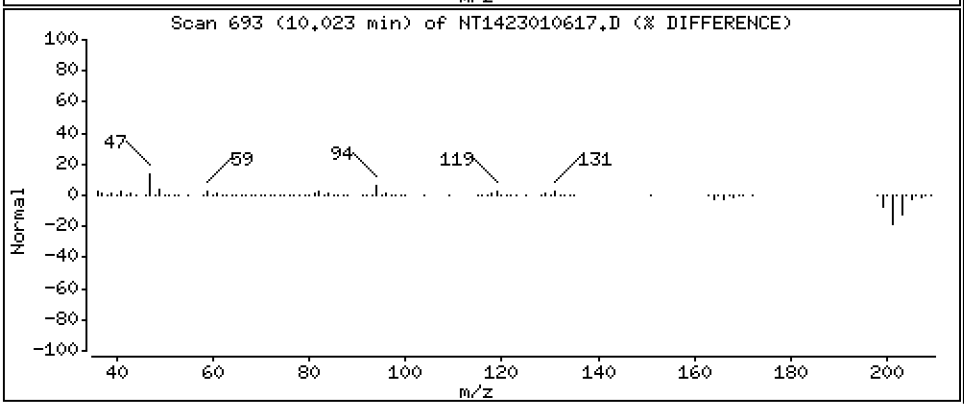
17 Hexachloroethane

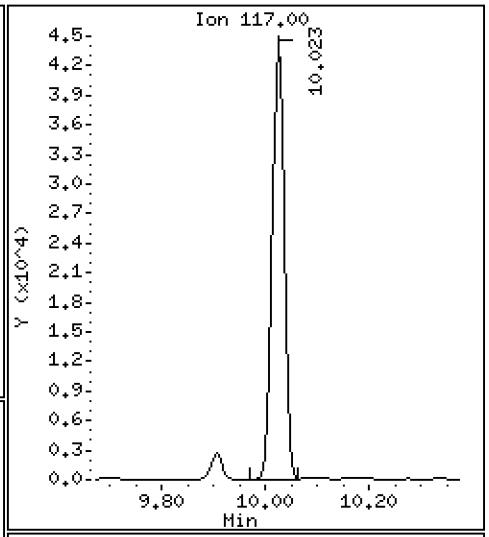
Concentration: 4.306 ug/mL

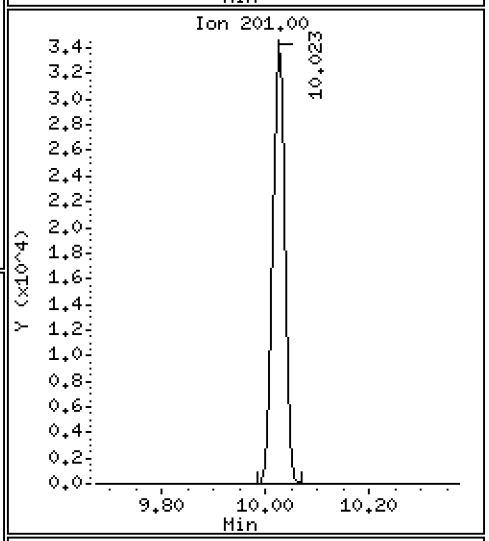


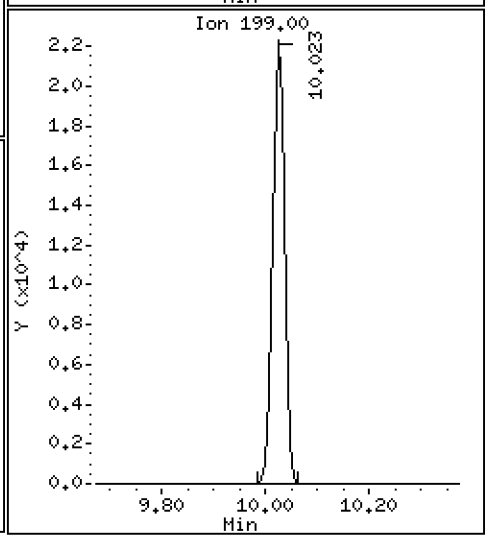












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

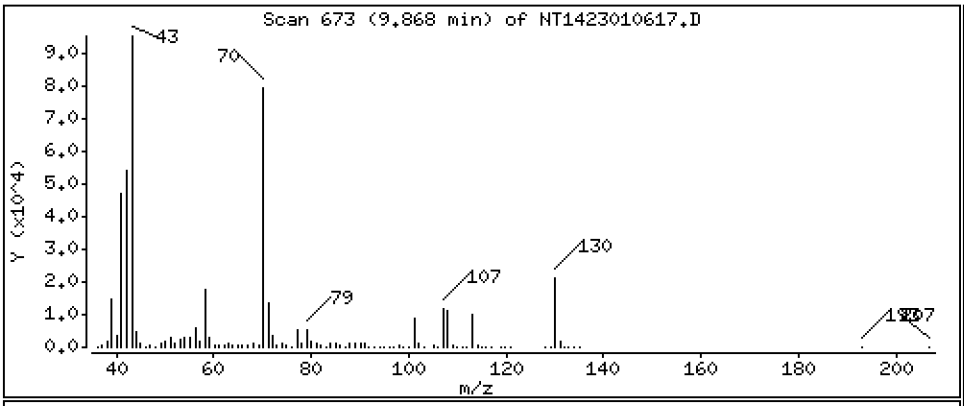
Operator: VTS

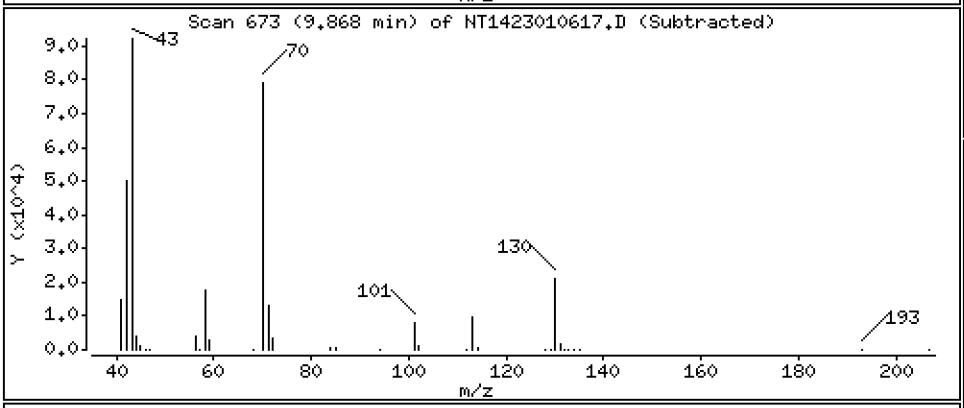
Column phase: ZB-5msi

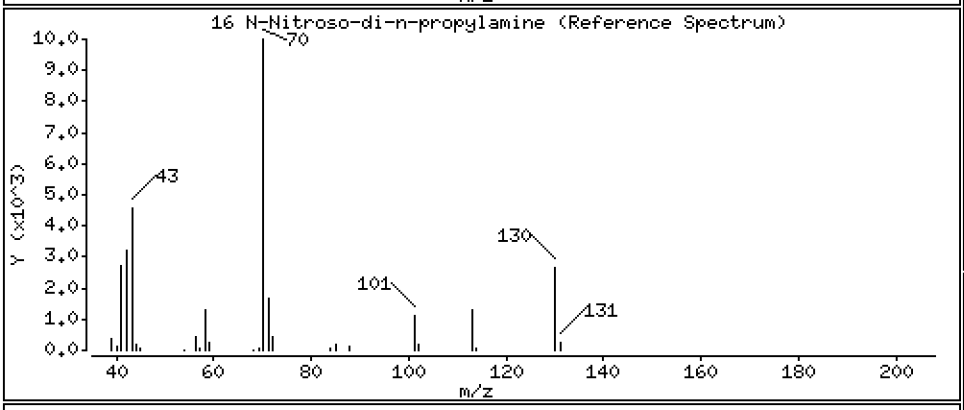
Column diameter: 0.25

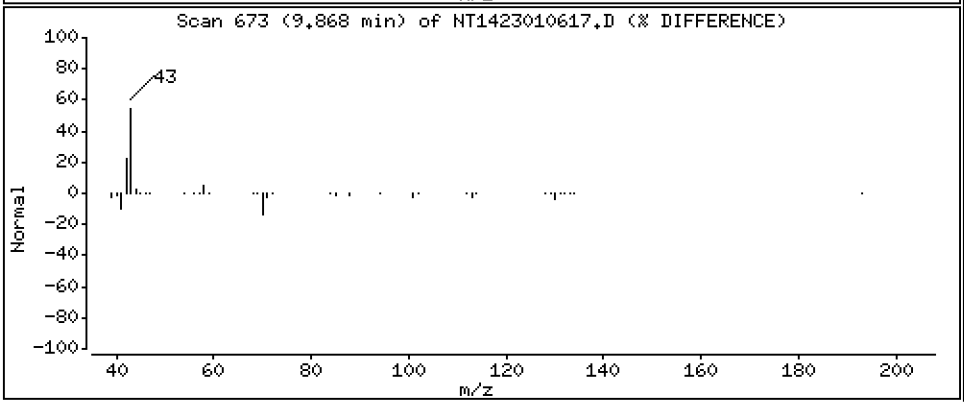
16 N-Nitroso-di-n-propylamine

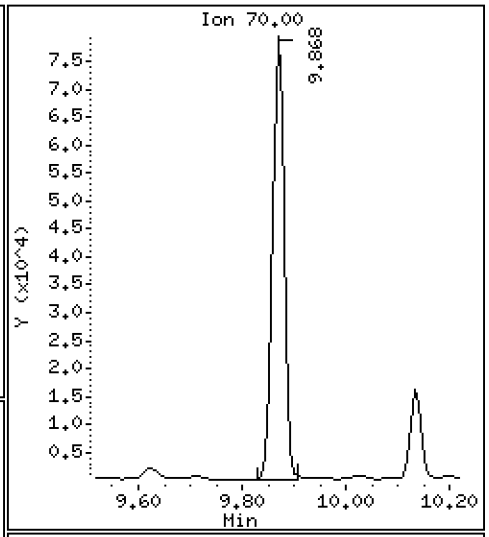
Concentration: 4.966 ug/mL

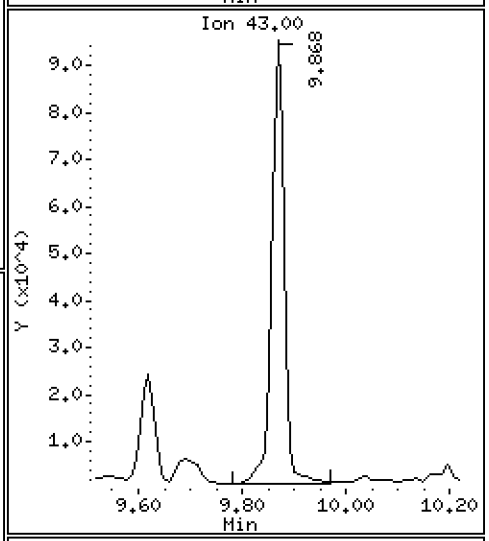


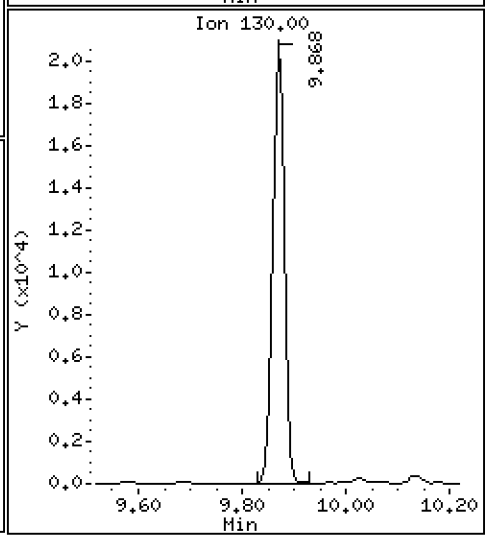












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

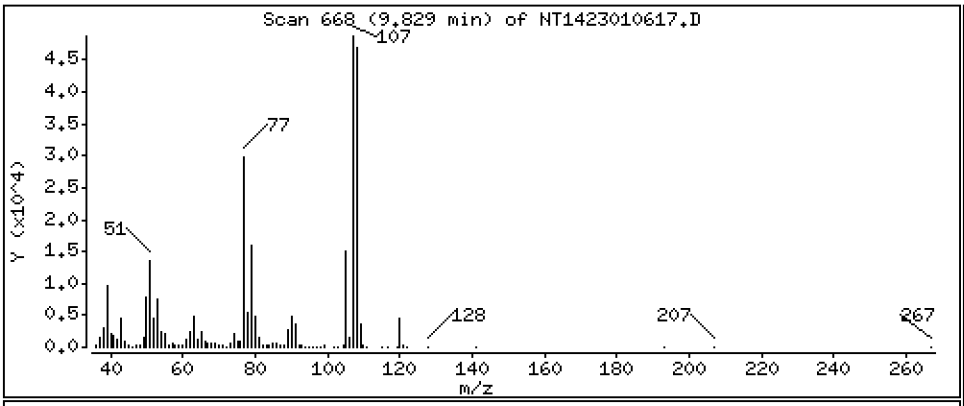
Operator: VTS

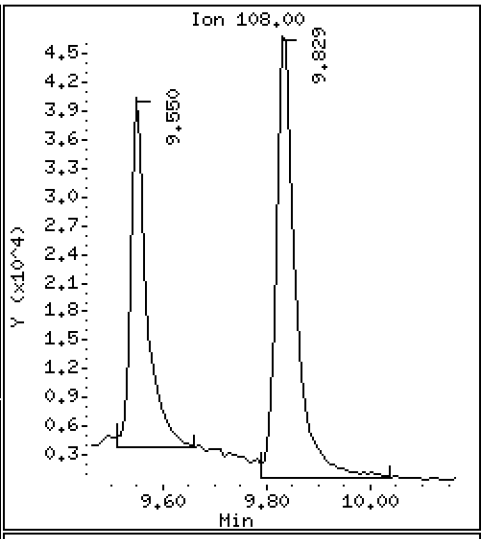
Column phase: ZB-5msi

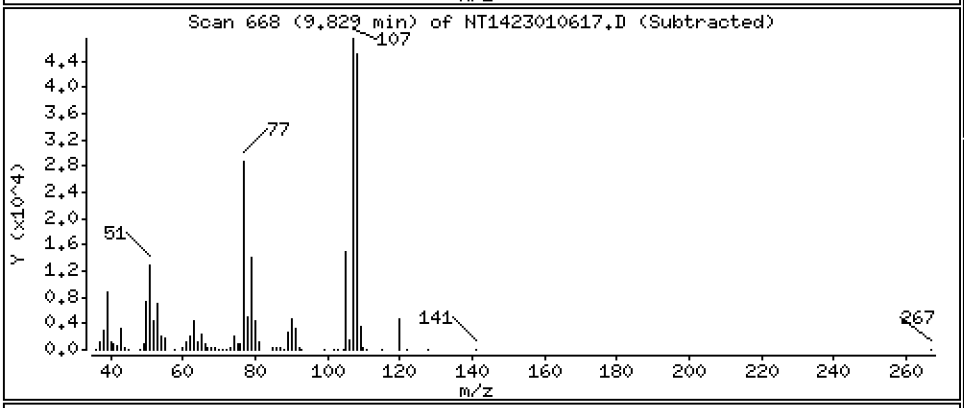
Column diameter: 0.25

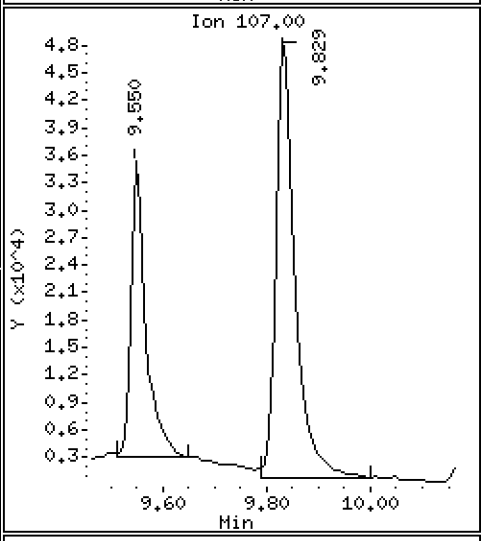
15 4-Methylphenol

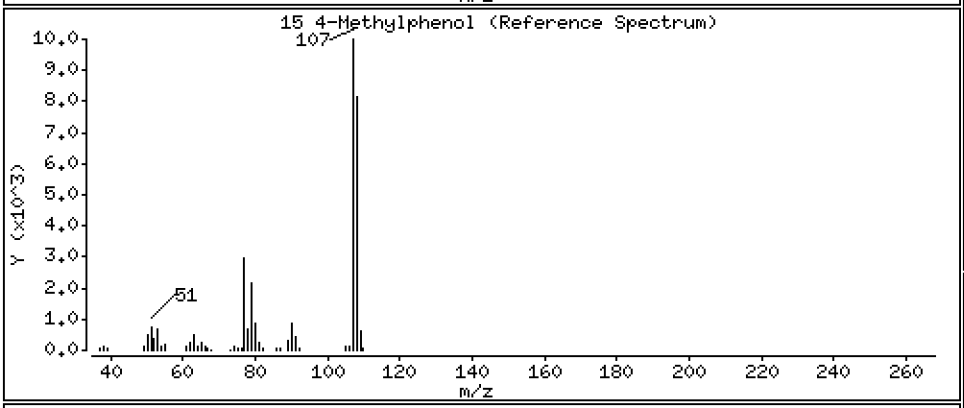
Concentration: 3.087 ug/mL

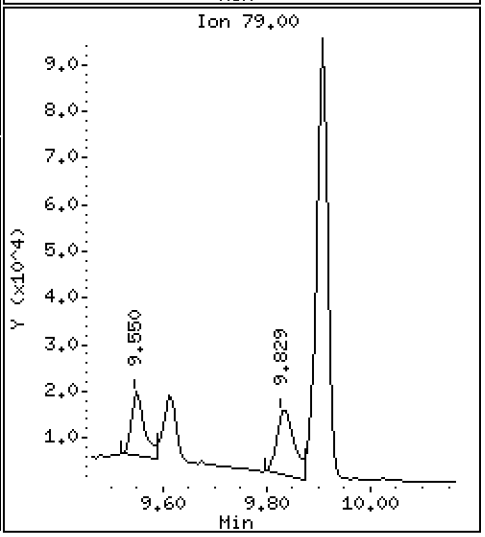


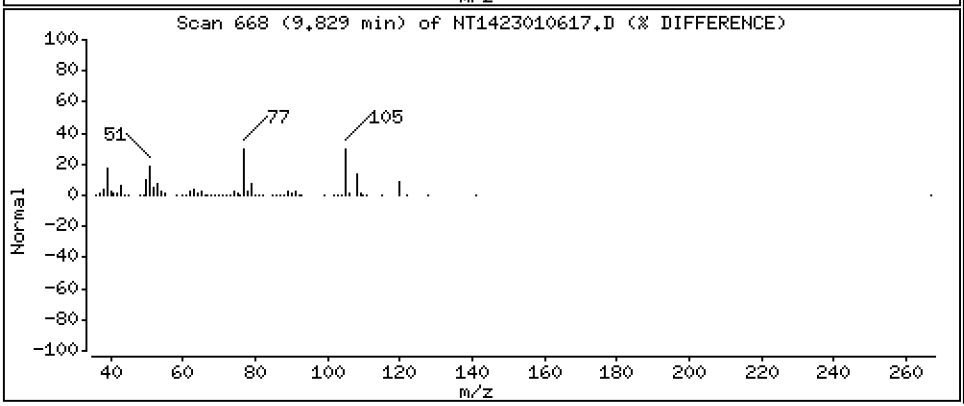












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

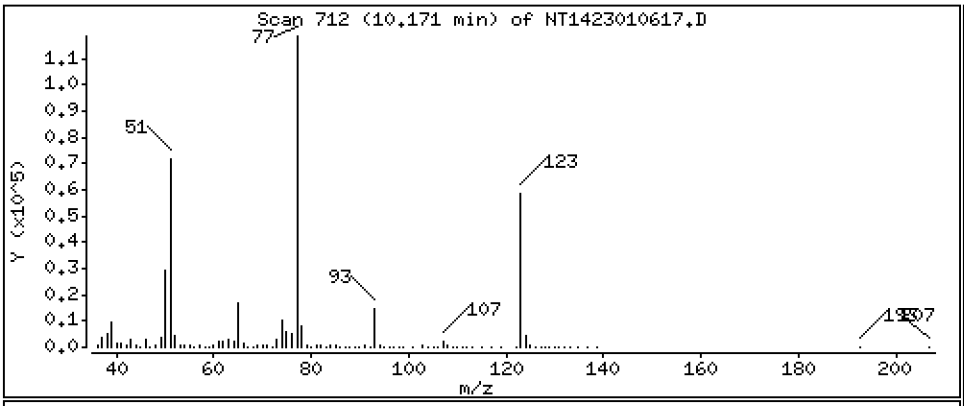
Operator: VTS

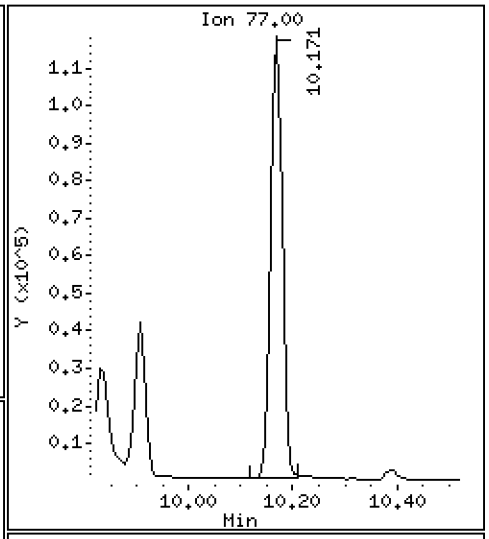
Column phase: ZB-5msi

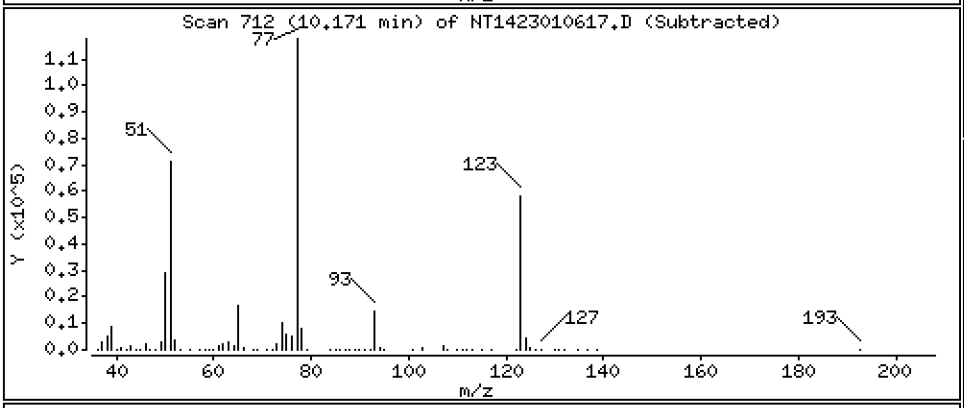
Column diameter: 0.25

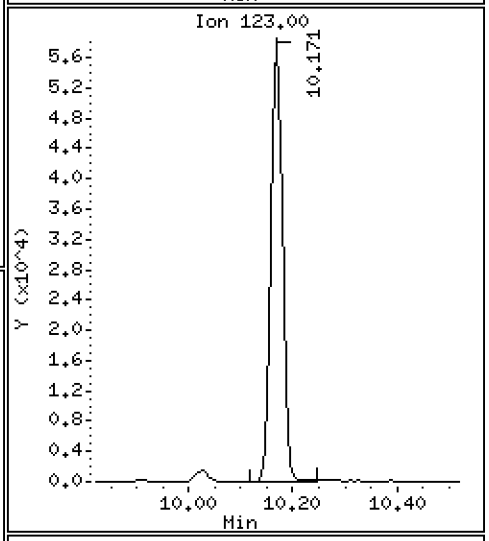
19 Nitrobenzene

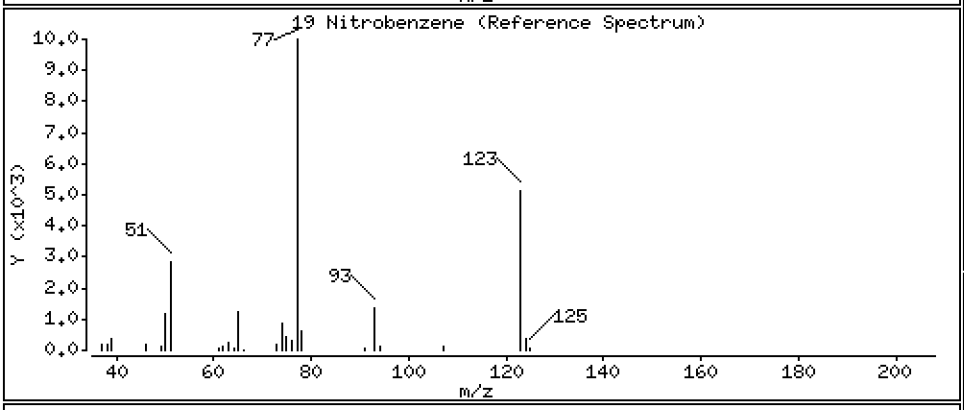
Concentration: 4.835 ug/mL

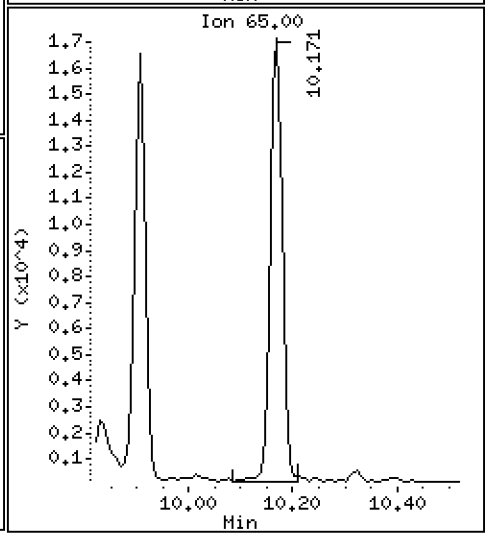


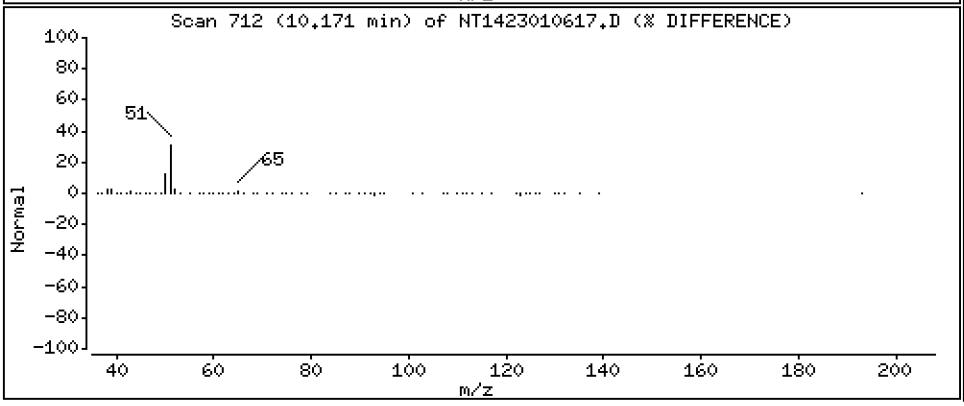












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

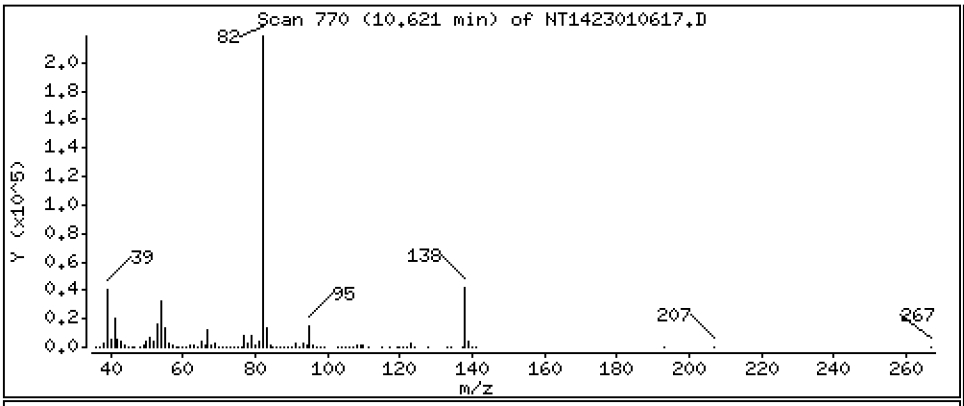
Operator: VTS

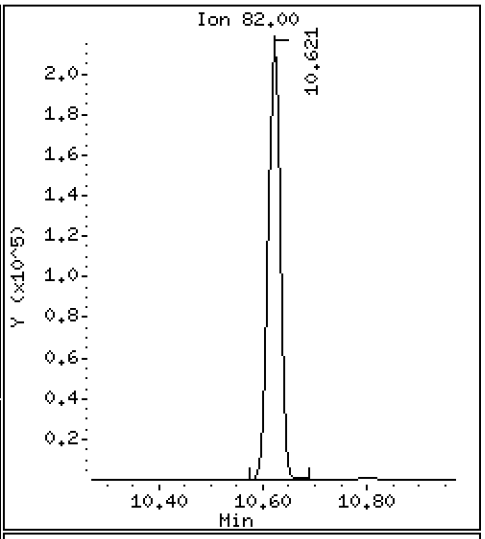
Column phase: ZB-5msi

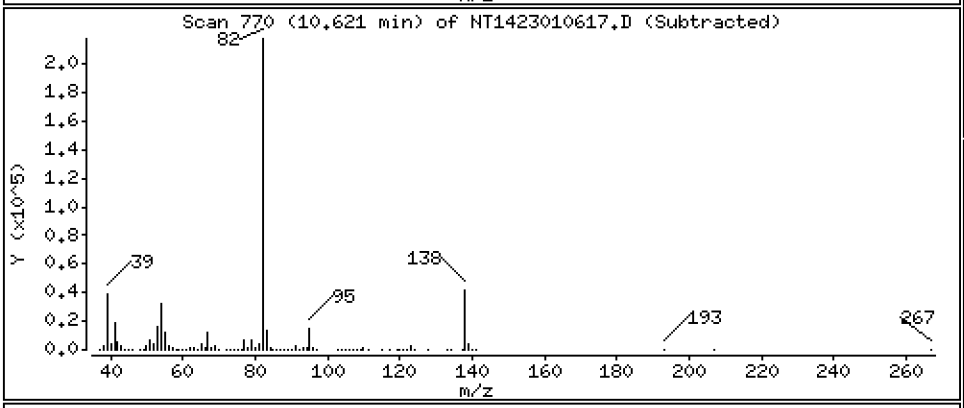
Column diameter: 0.25

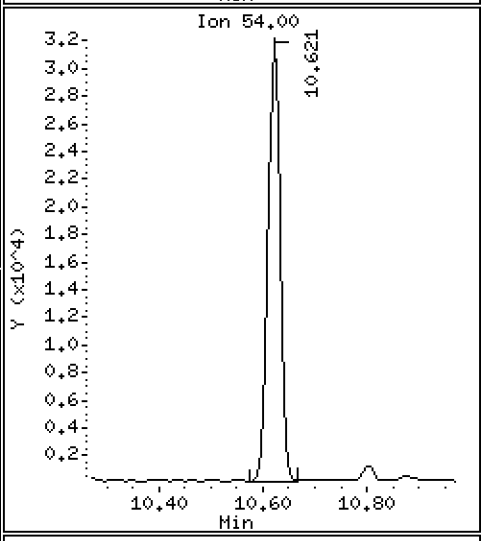
20 Isophorone

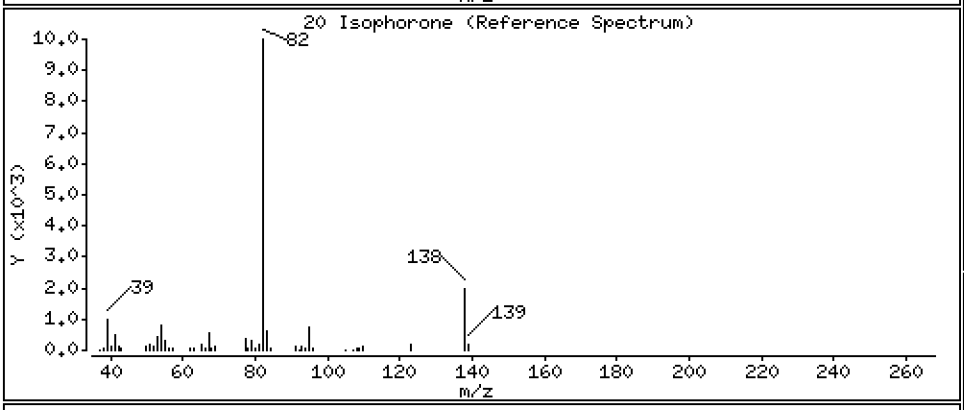
Concentration: 7.185 ug/mL

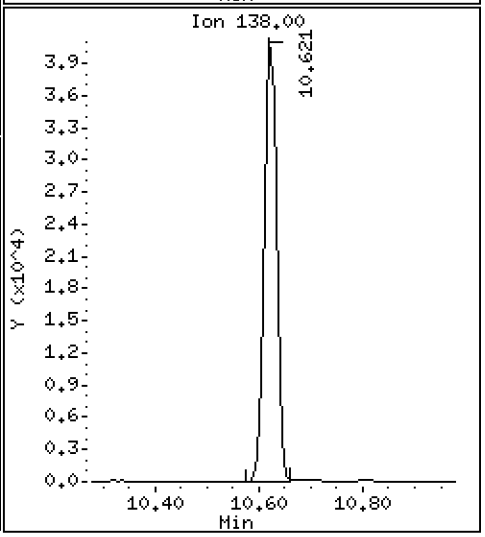


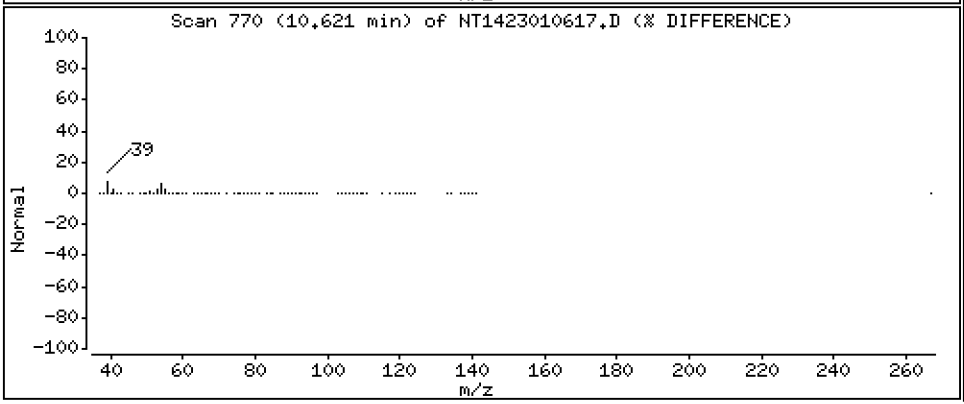












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

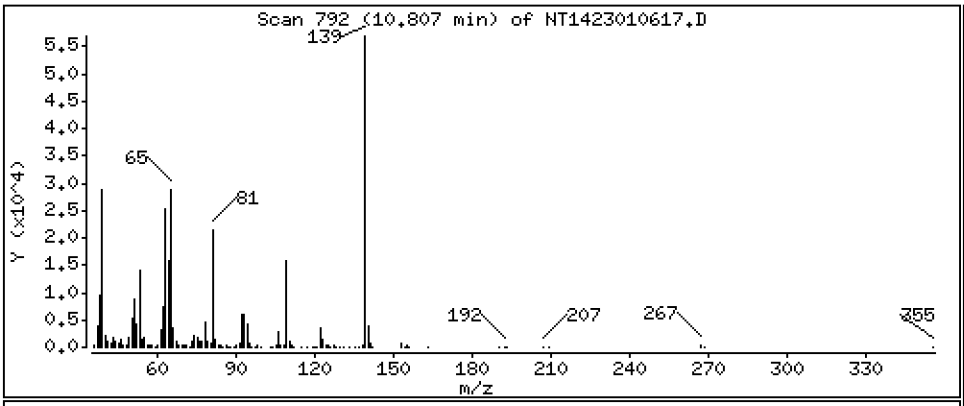
Operator: VTS

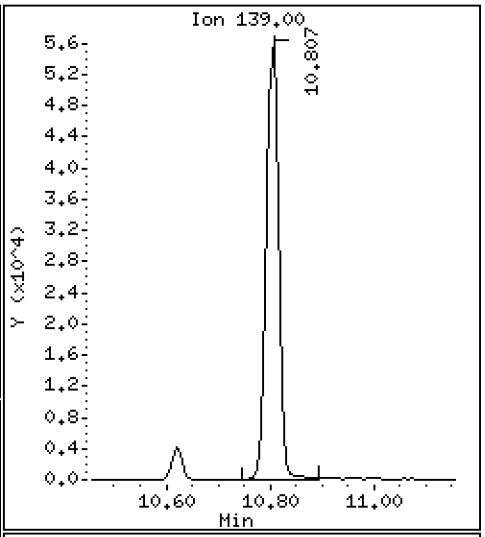
Column phase: ZB-5msi

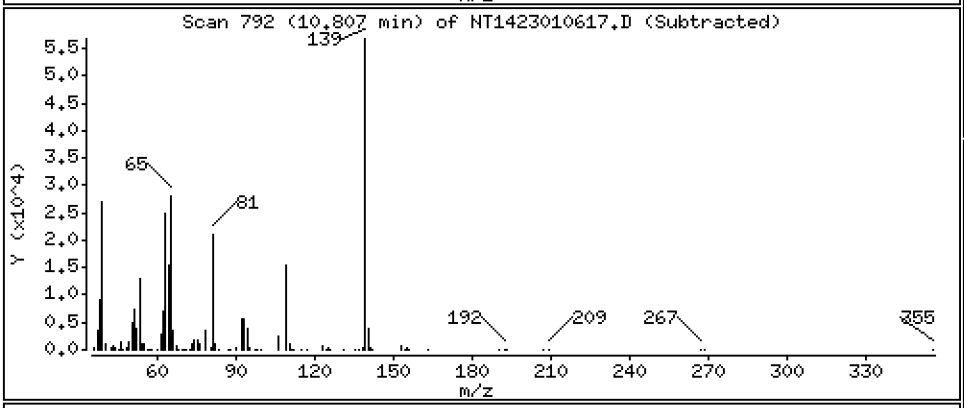
Column diameter: 0.25

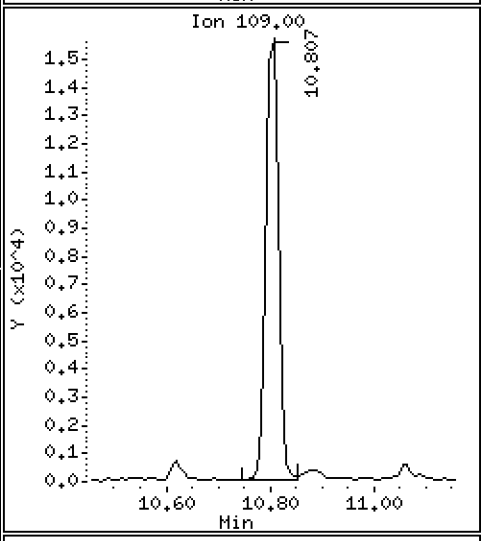
21 2-Nitrophenol

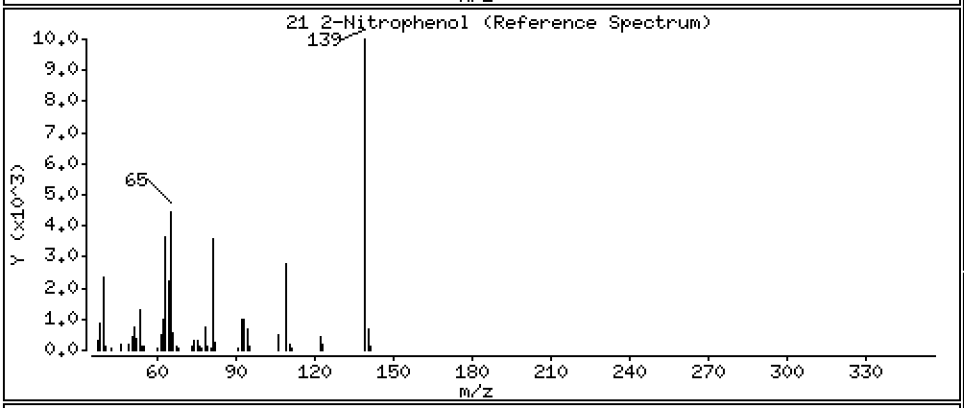
Concentration: 4.302 ug/mL

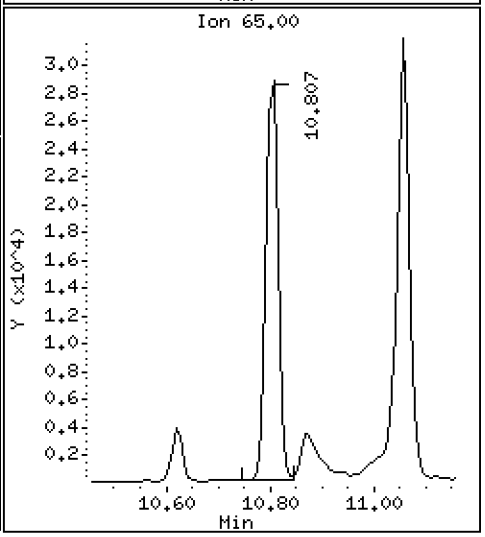


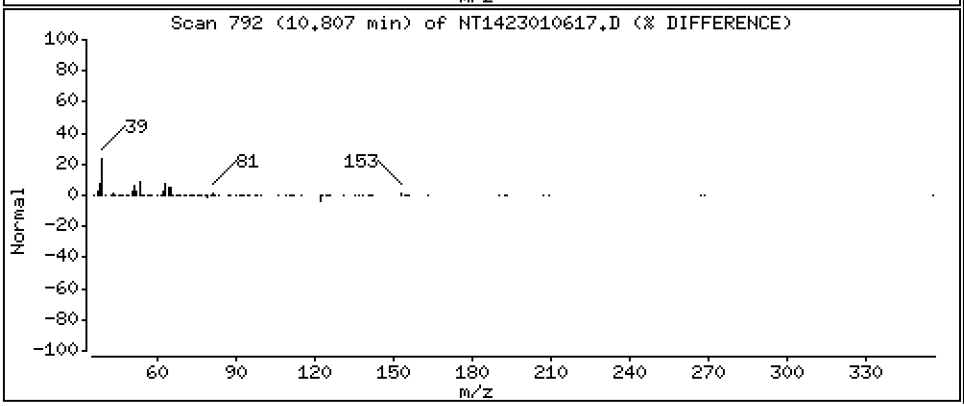












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

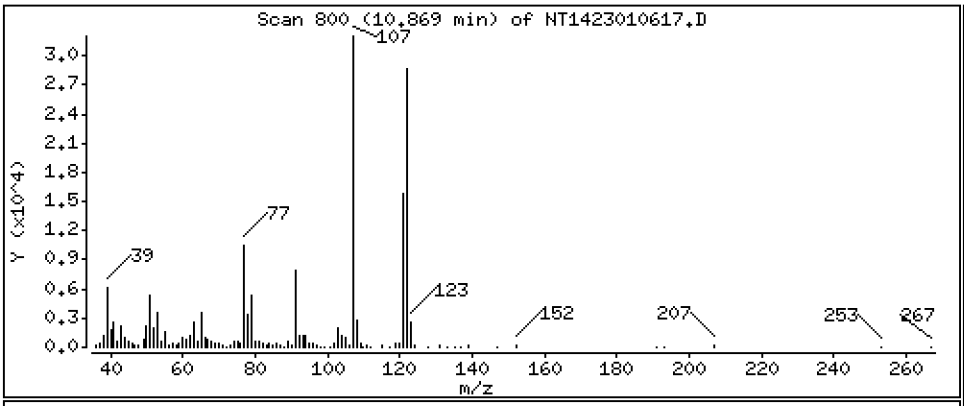
Operator: VTS

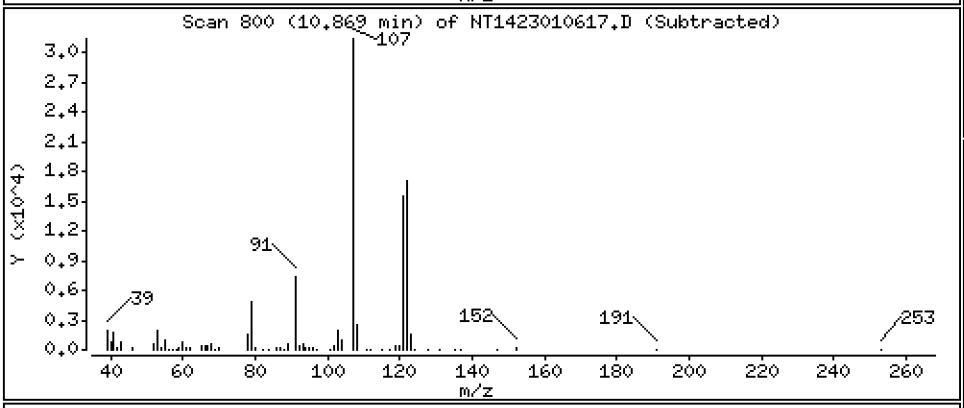
Column phase: ZB-5msi

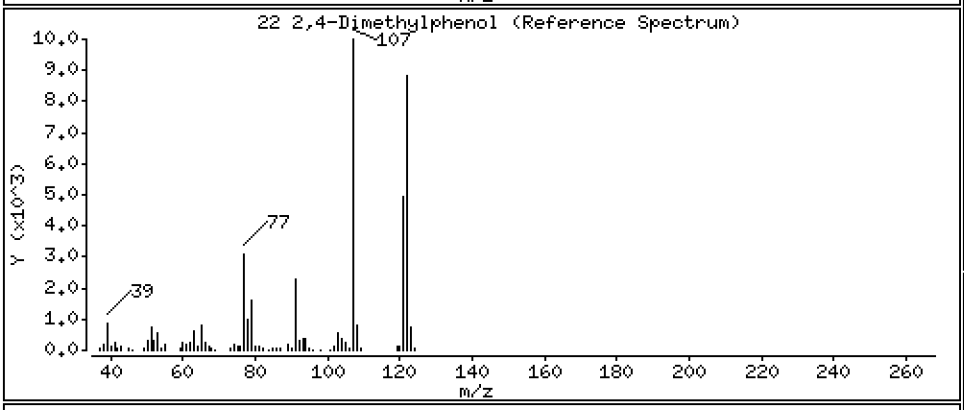
Column diameter: 0.25

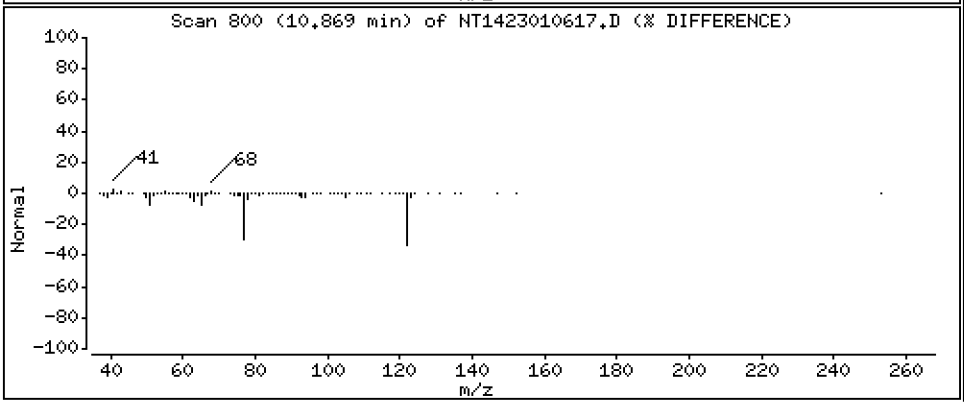
22 2,4-Dimethylphenol

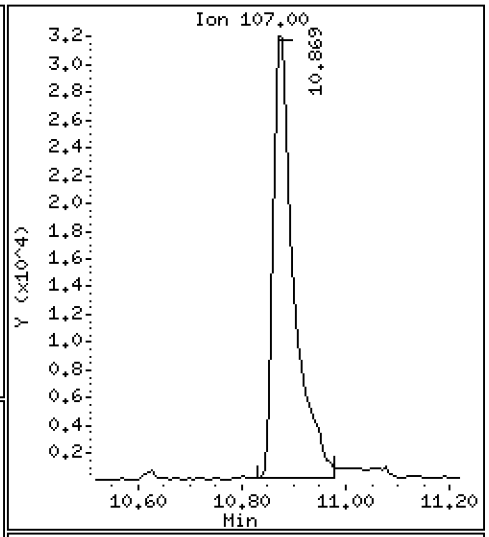
Concentration: 2.320 ug/mL

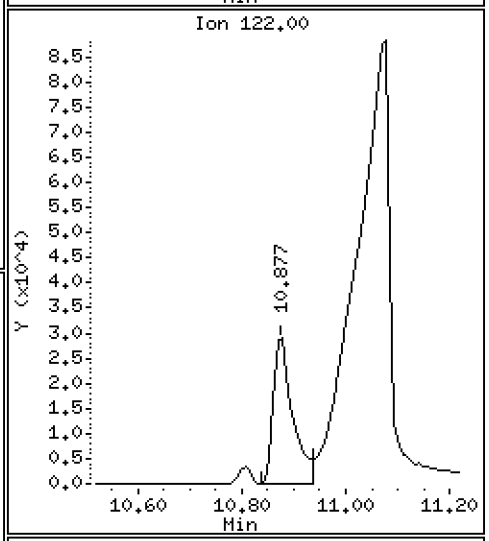


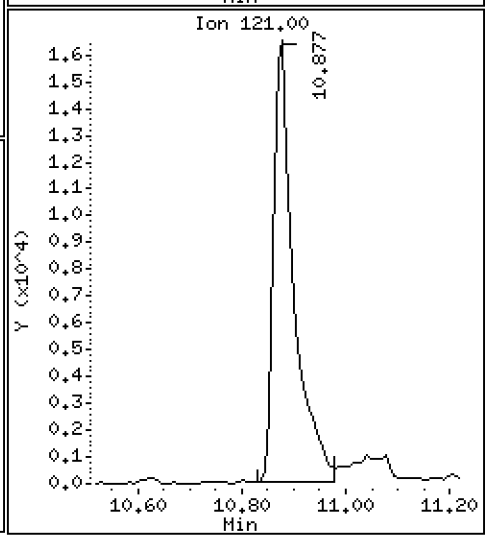












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

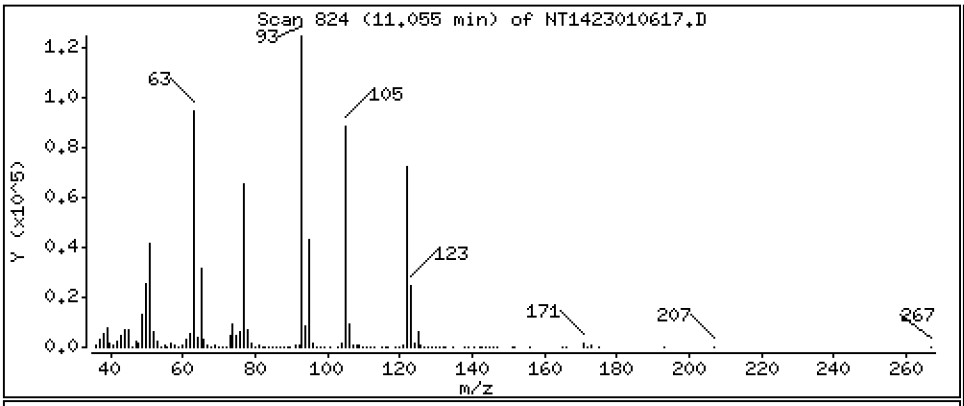
Operator: VTS

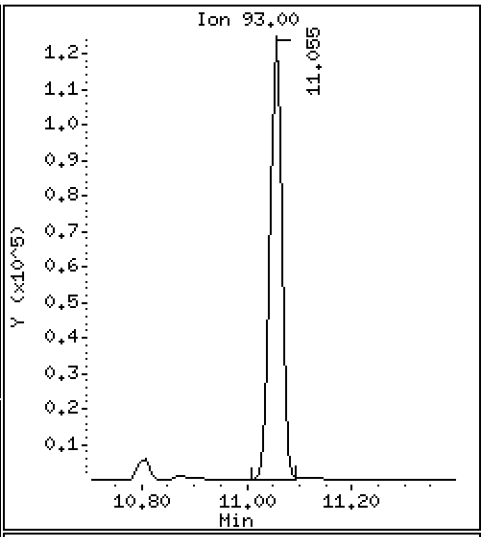
Column phase: ZB-5msi

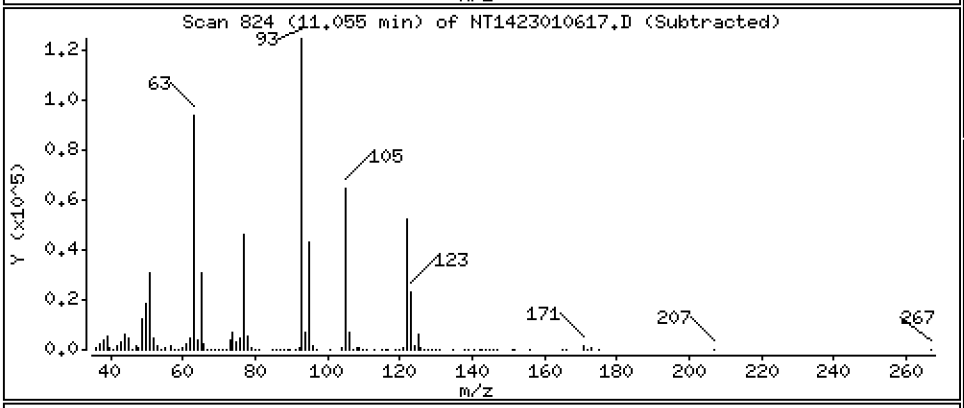
Column diameter: 0.25

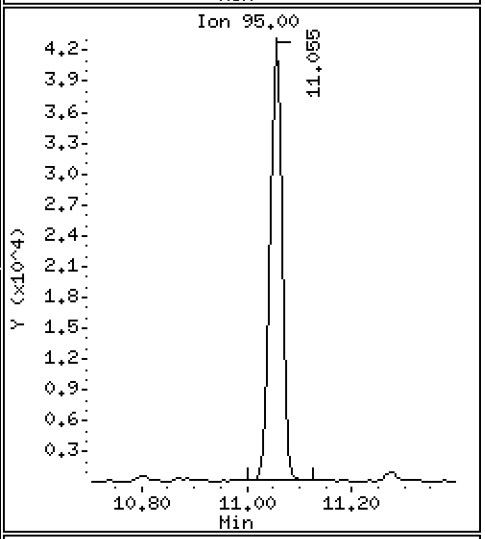
23 Bis(2-Chloroethoxy)methane

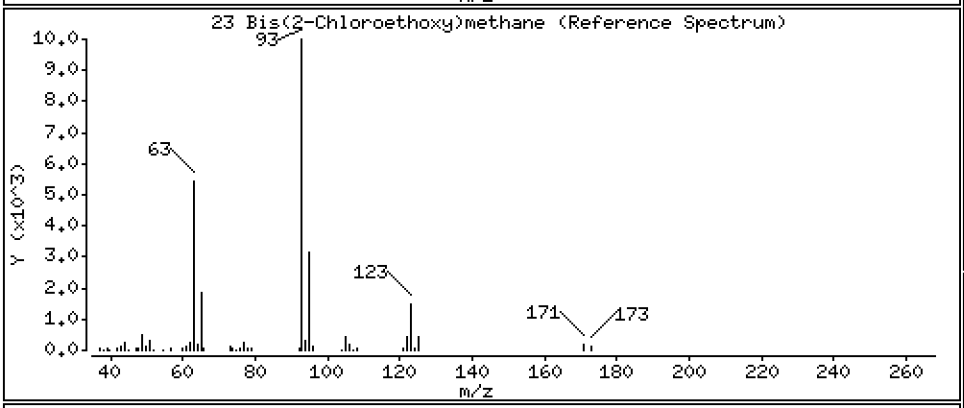
Concentration: 5.197 ug/mL

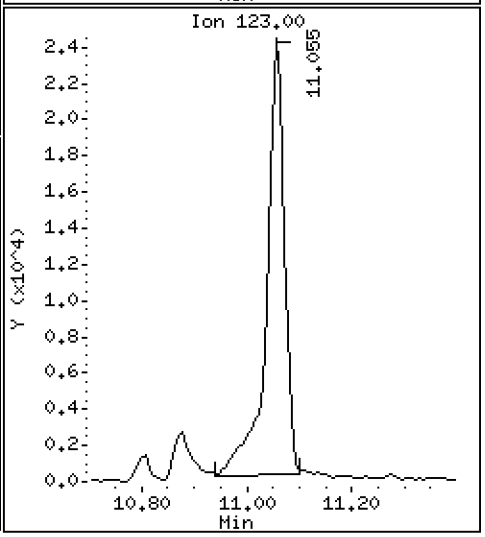


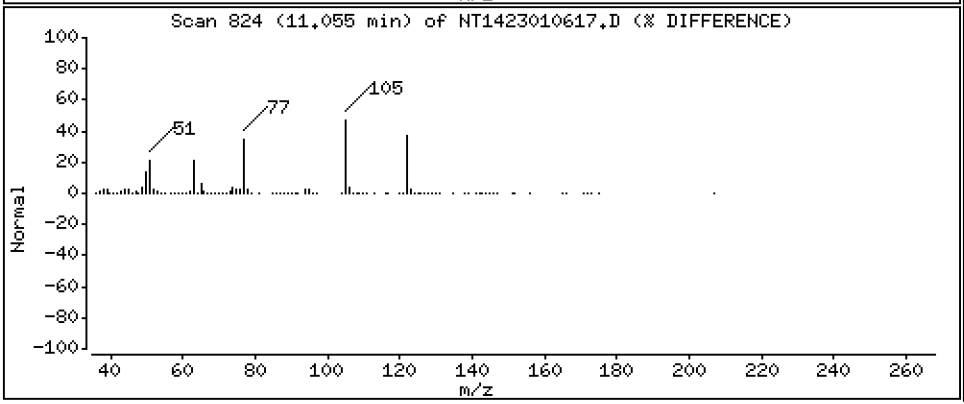












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

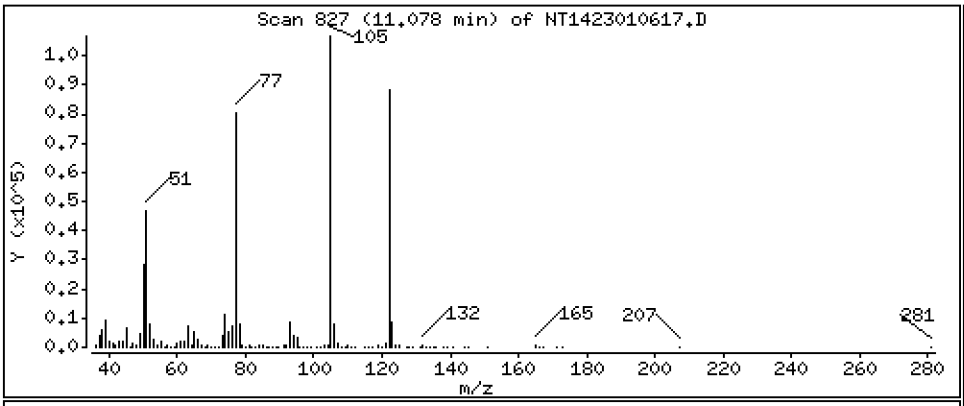
Operator: VTS

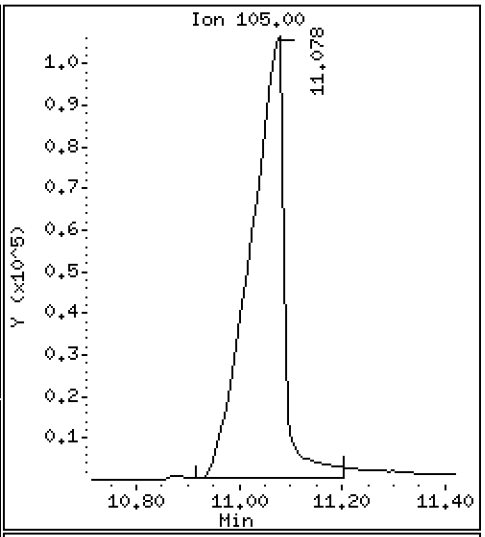
Column phase: ZB-5msi

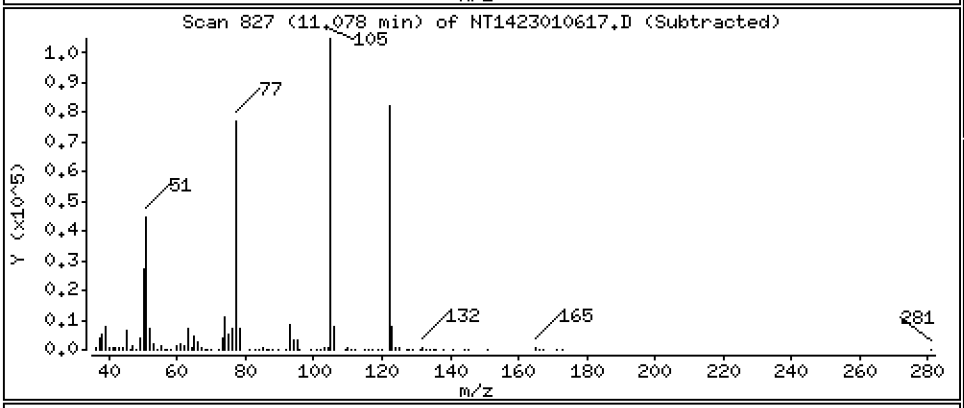
Column diameter: 0.25

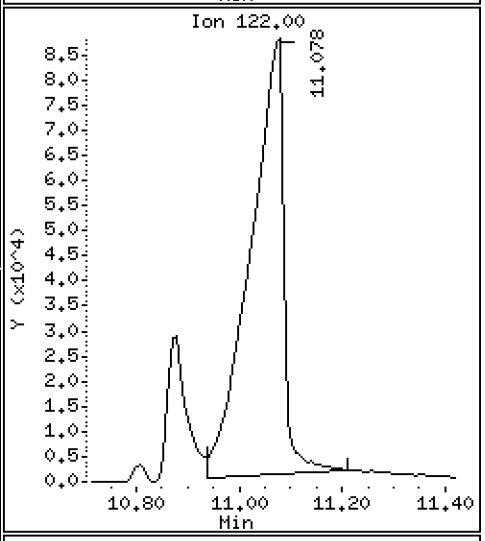
24 Benzoic acid

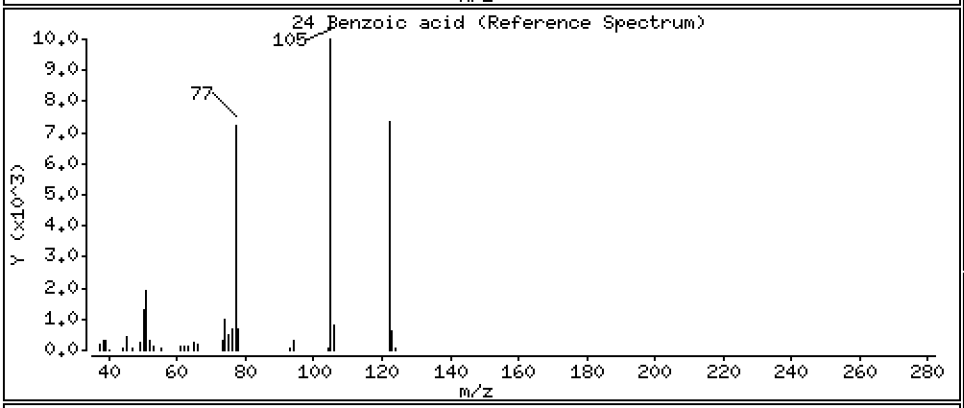
Concentration: 20.31 ug/mL

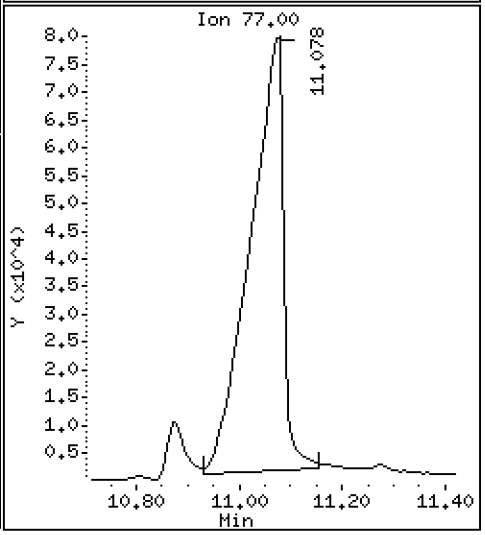


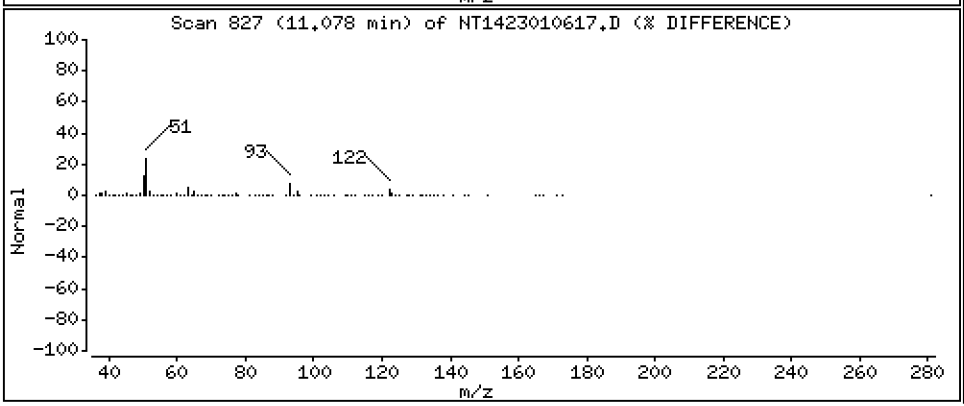












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

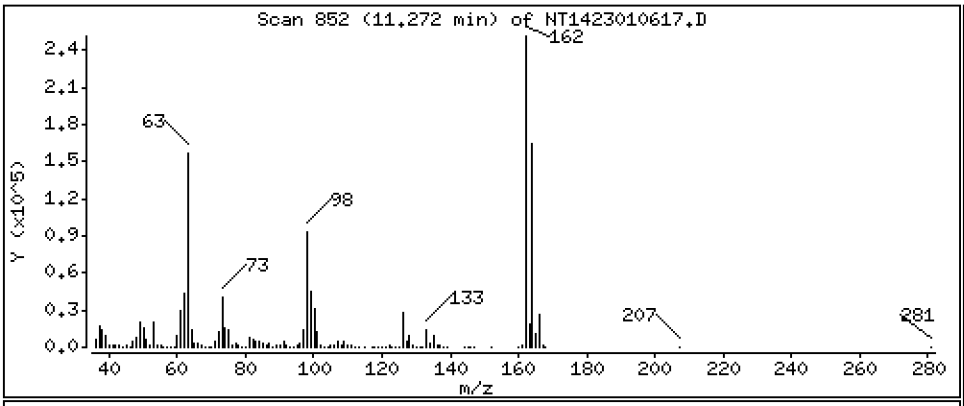
Operator: VTS

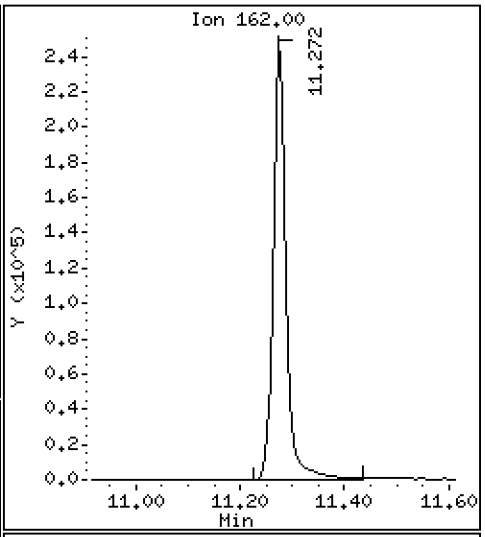
Column phase: ZB-5msi

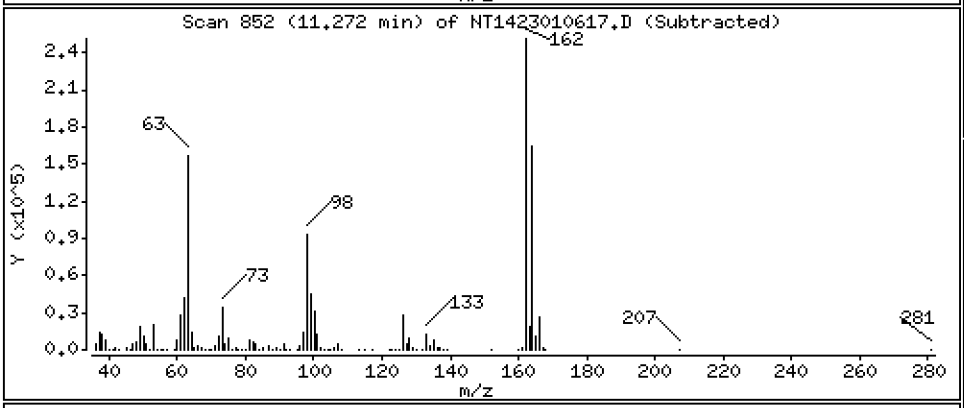
Column diameter: 0.25

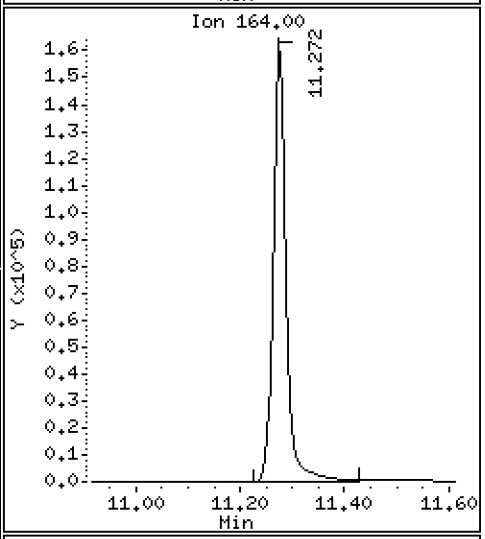
25 2,4-Dichlorophenol

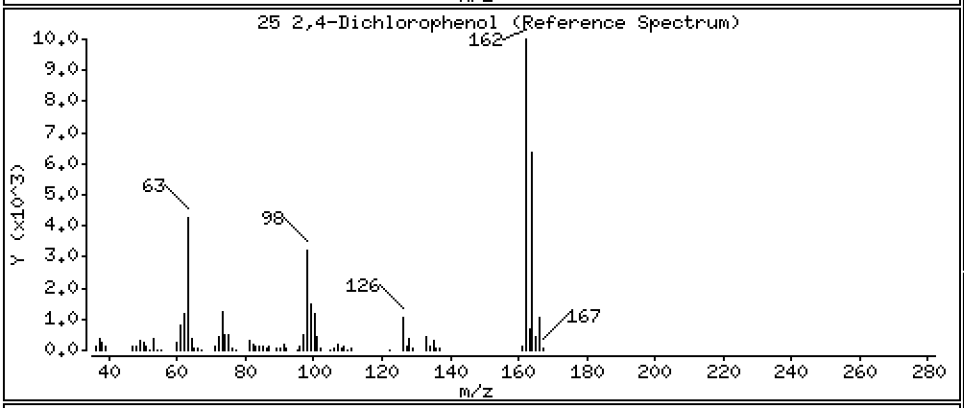
Concentration: 14.76 ug/mL

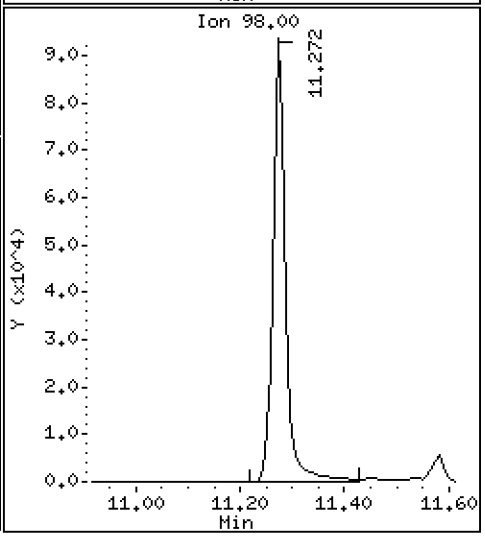


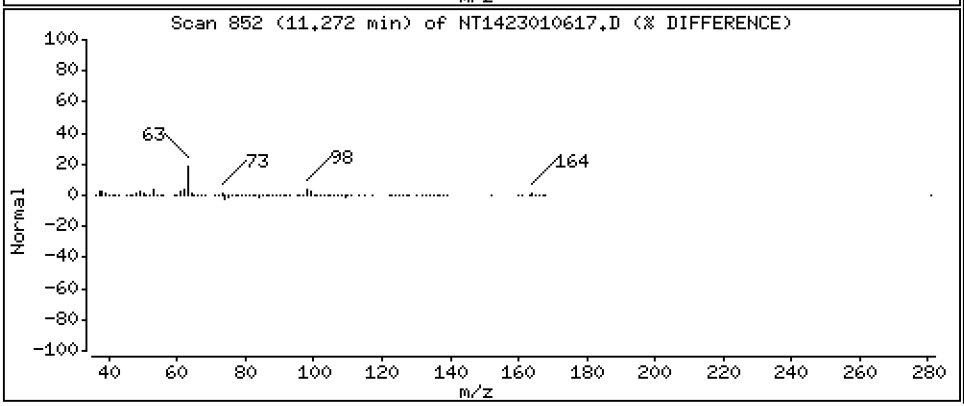












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

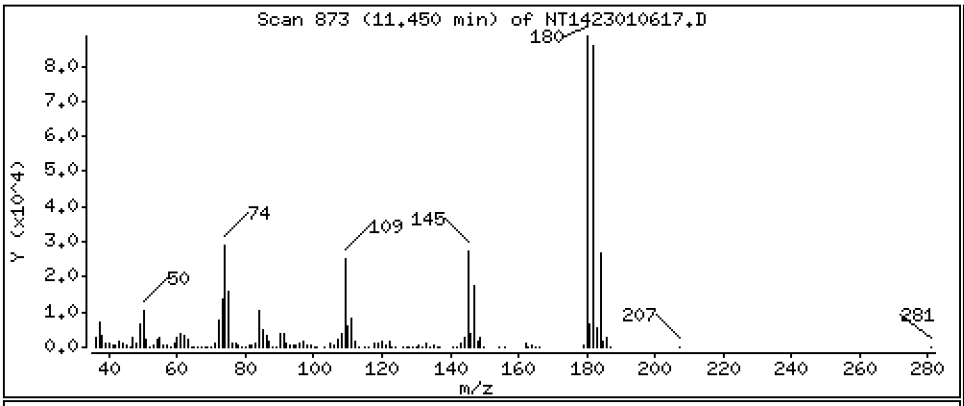
Operator: VTS

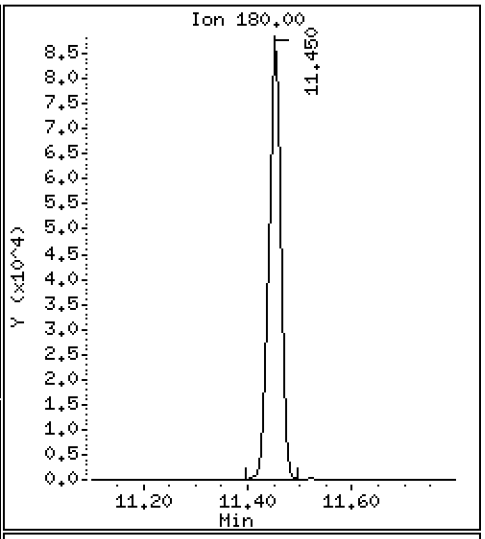
Column phase: ZB-5msi

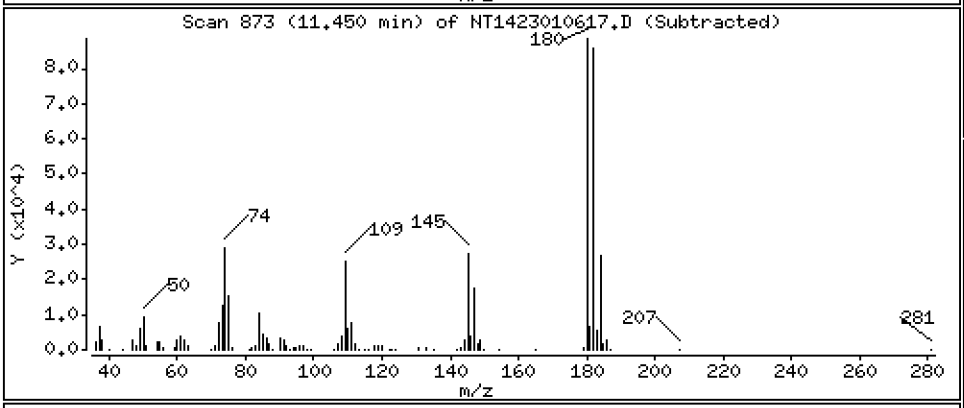
Column diameter: 0.25

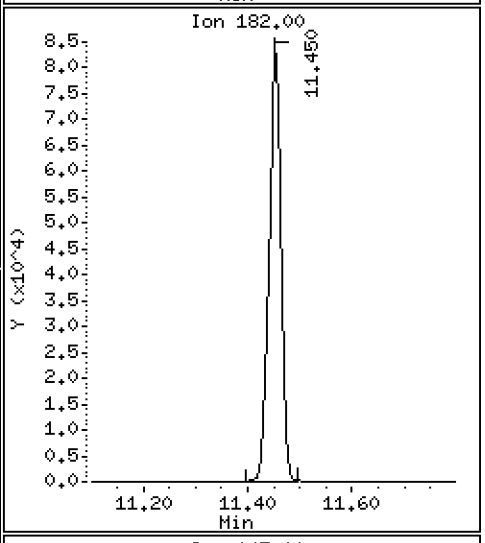
26 1,2,4-Trichlorobenzene

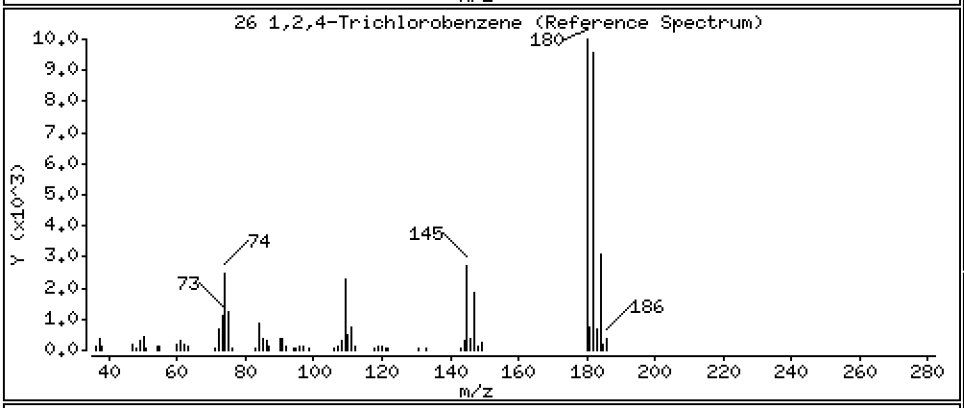
Concentration: 4.767 ug/mL

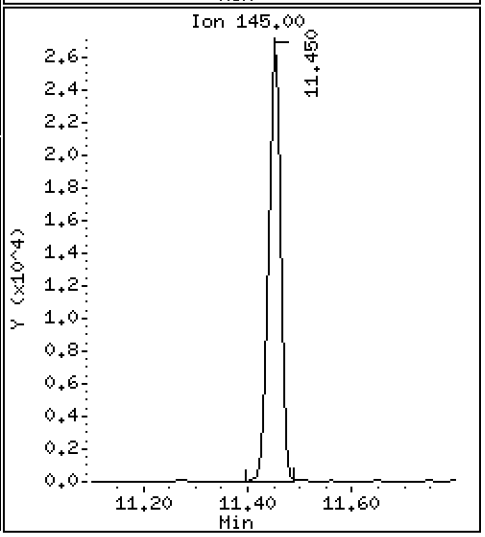


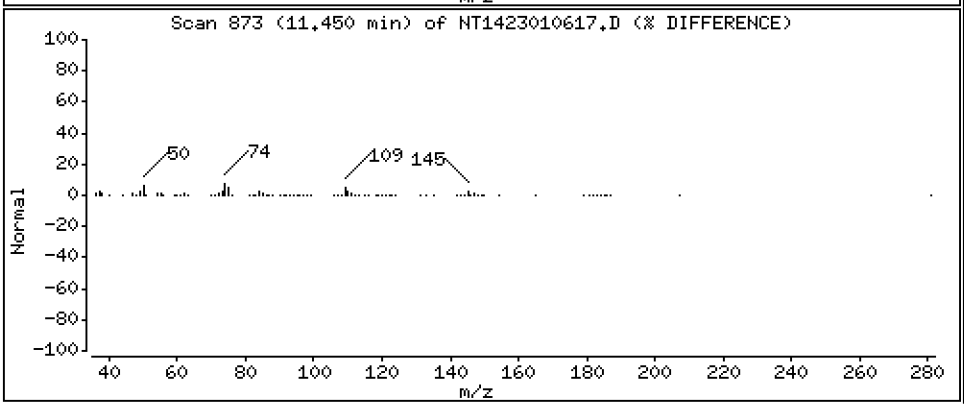












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

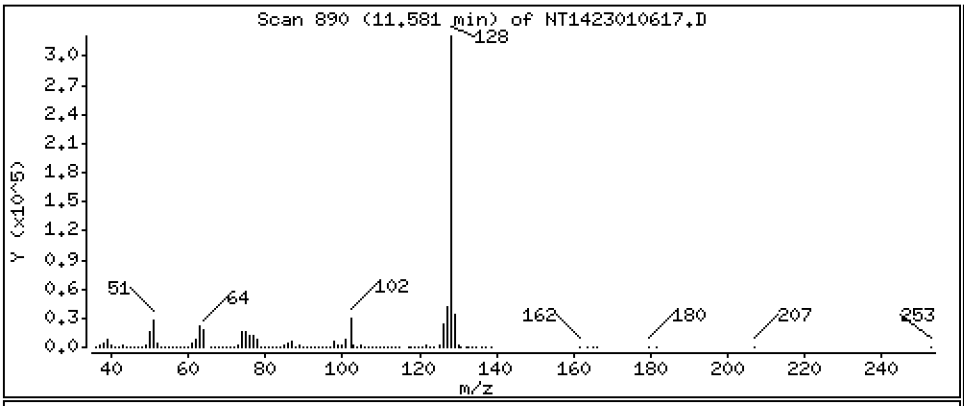
Operator: VTS

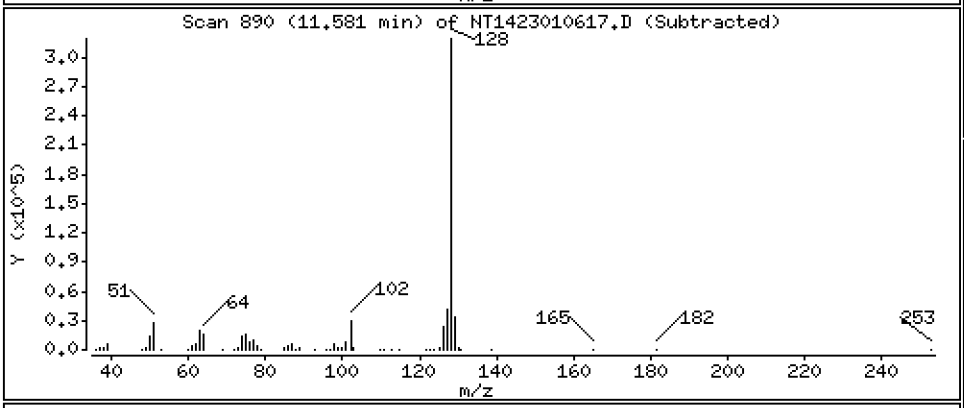
Column phase: ZB-5msi

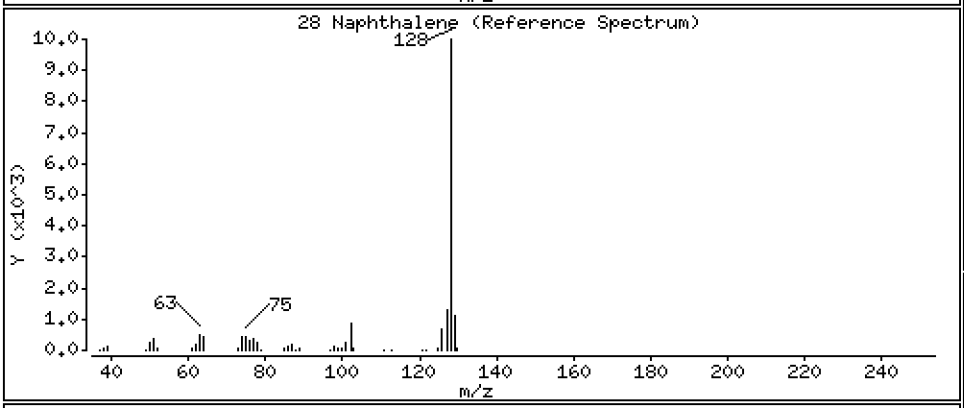
Column diameter: 0.25

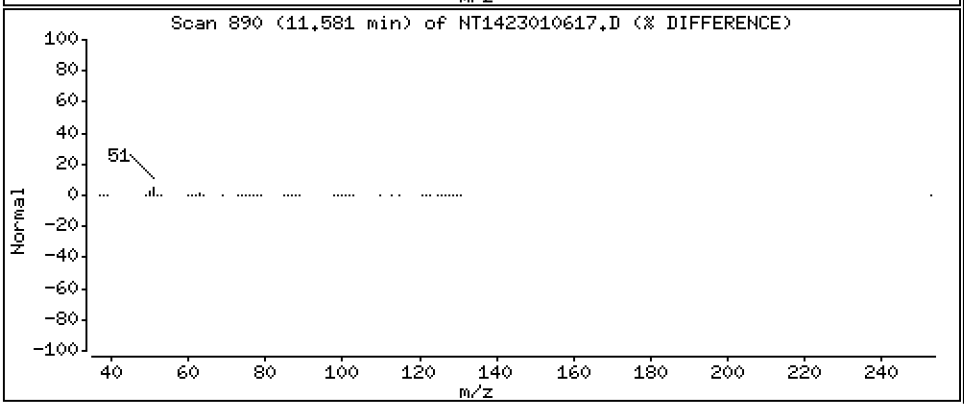
28 Naphthalene

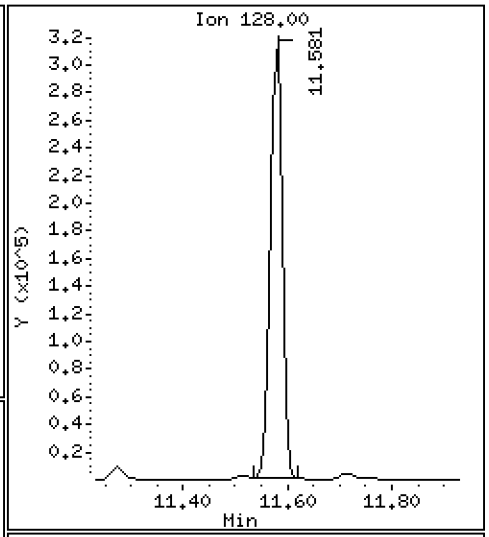
Concentration: 4.469 ug/mL

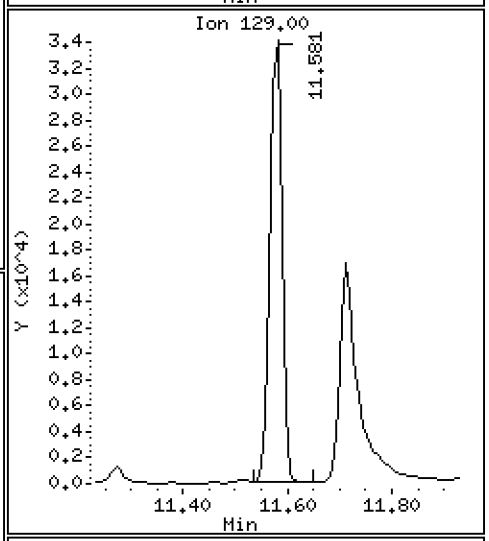


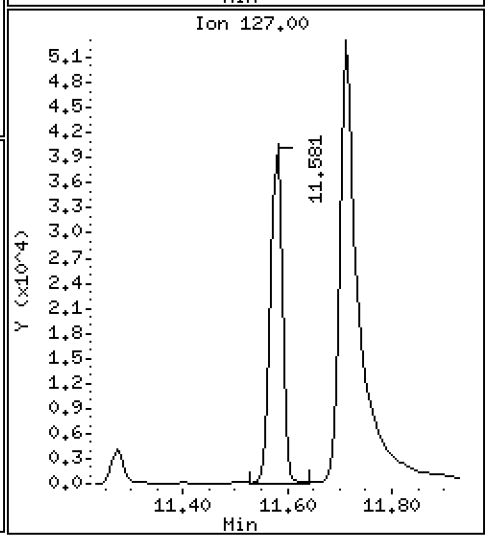












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

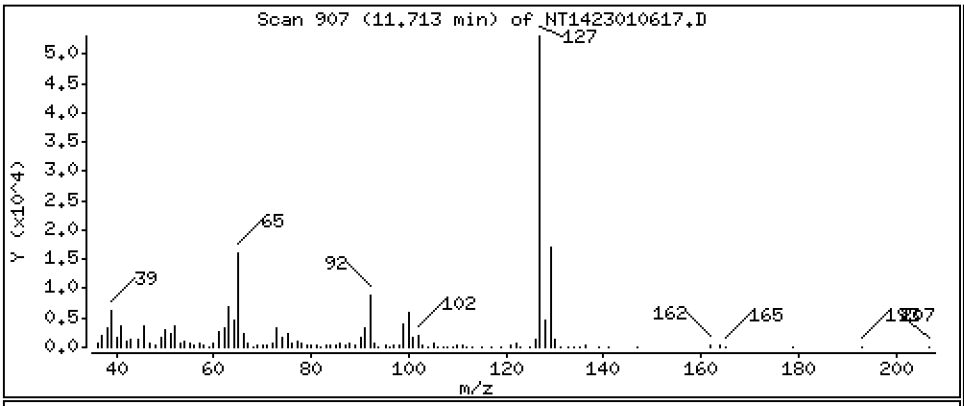
Operator: VTS

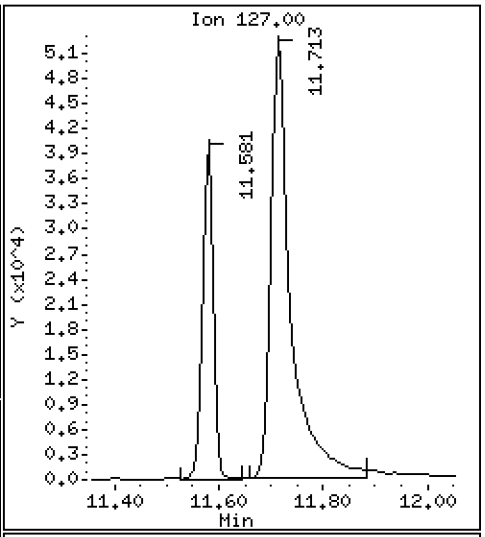
Column phase: ZB-5msi

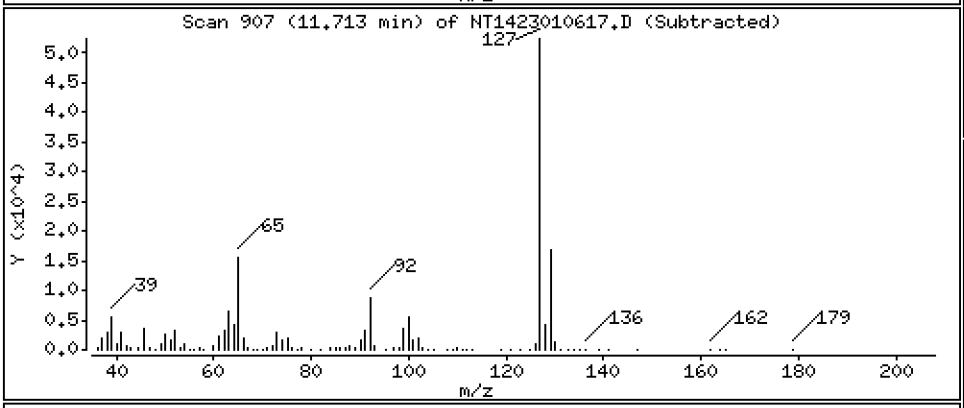
Column diameter: 0.25

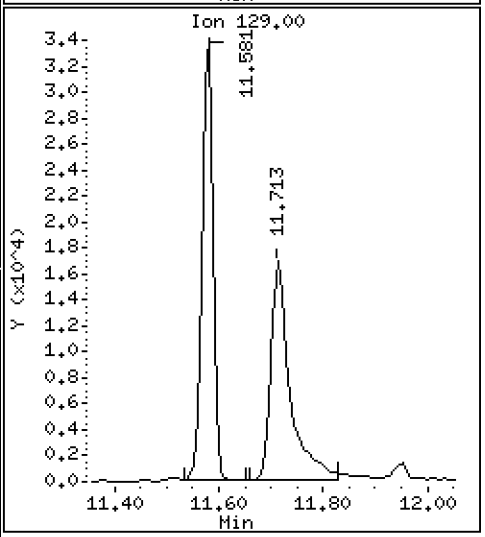
29 4-Chloroaniline

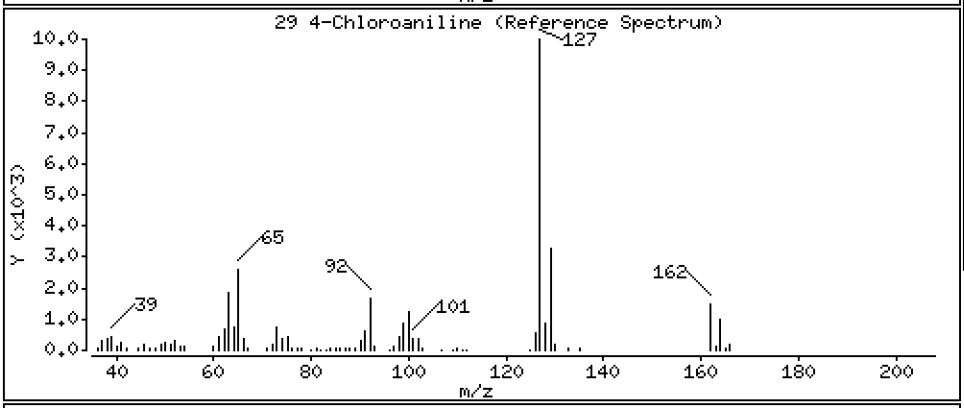
Concentration: 3.129 ug/mL

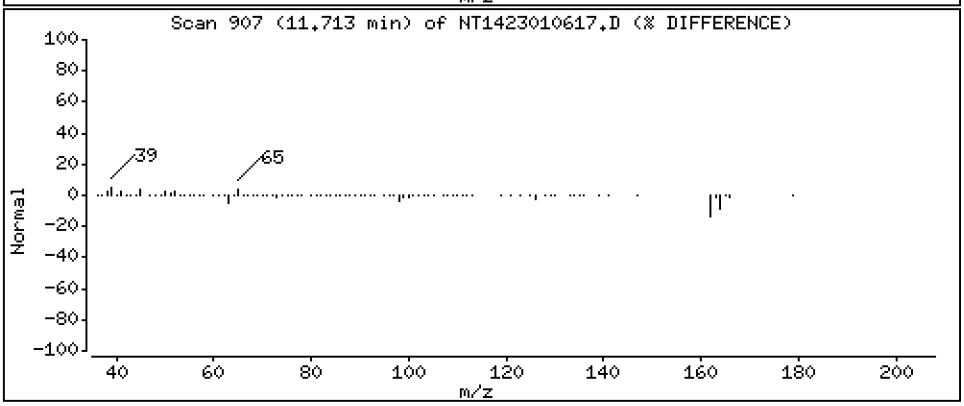












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

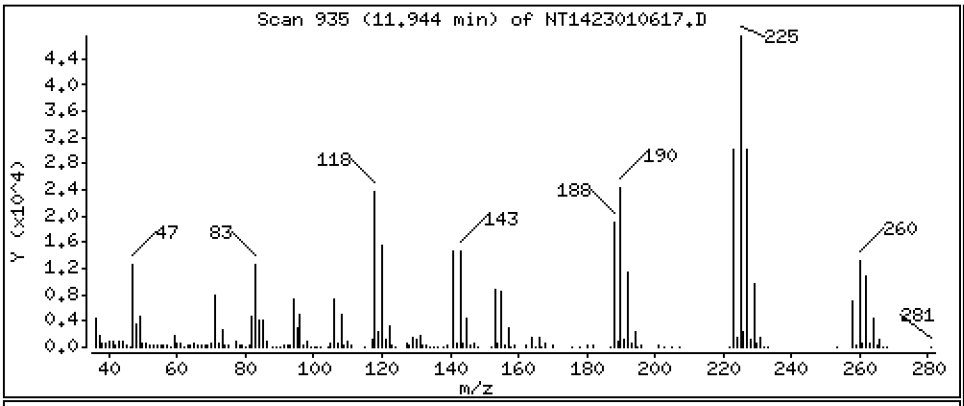
Operator: VTS

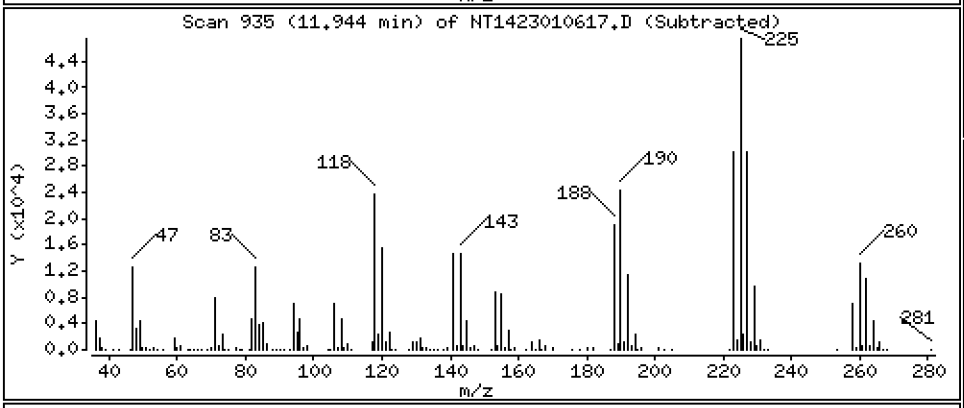
Column phase: ZB-5msi

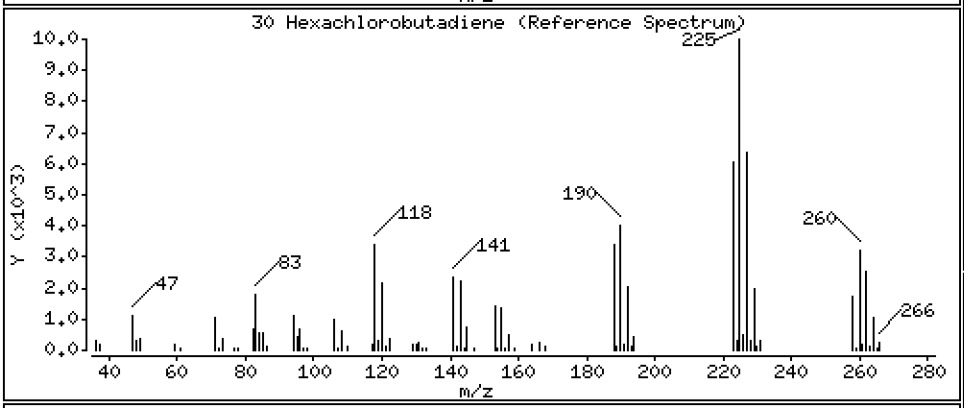
Column diameter: 0.25

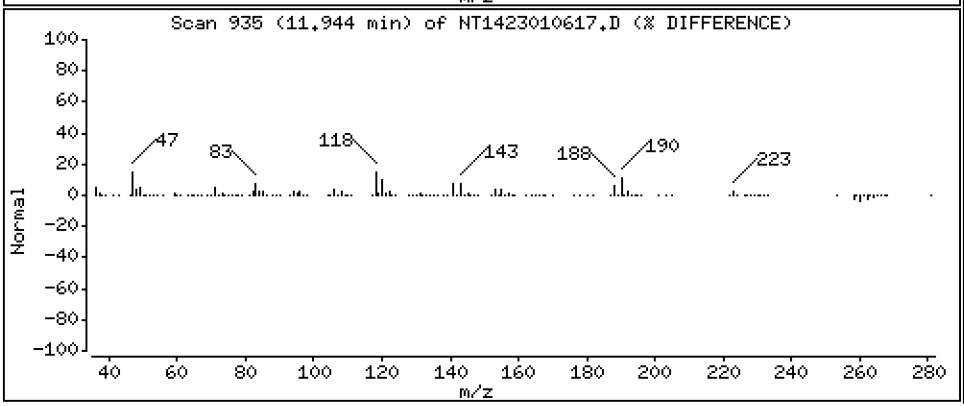
30 Hexachlorobutadiene

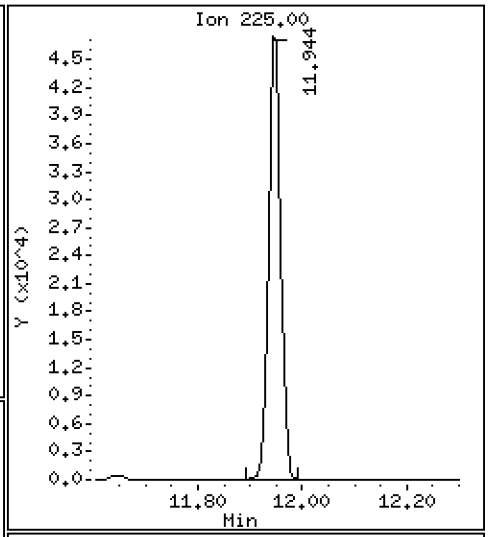
Concentration: 5.323 ug/mL

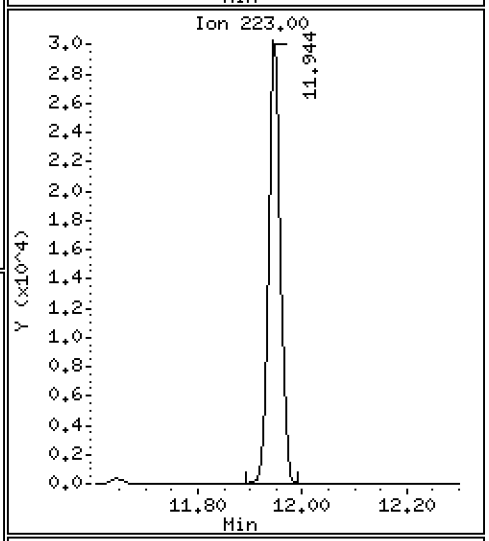


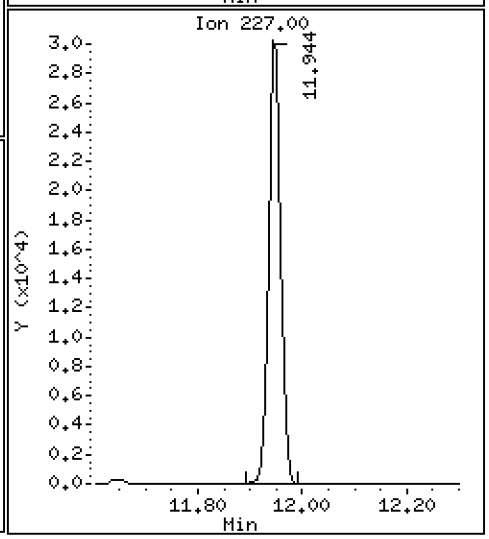












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

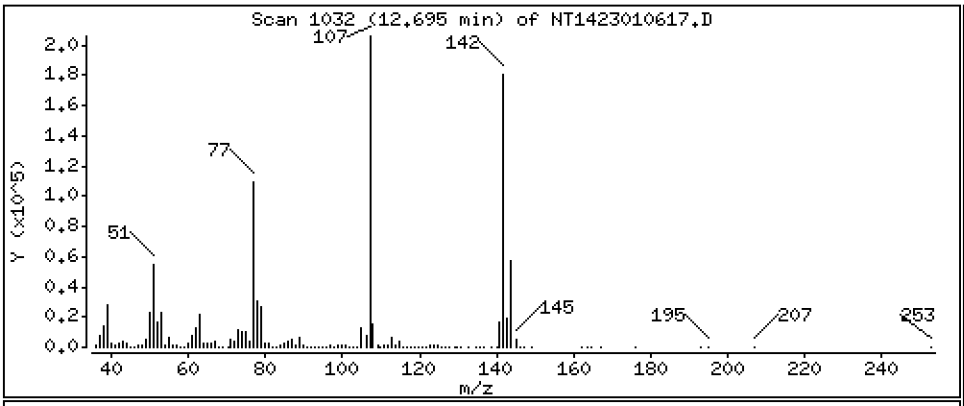
Operator: VTS

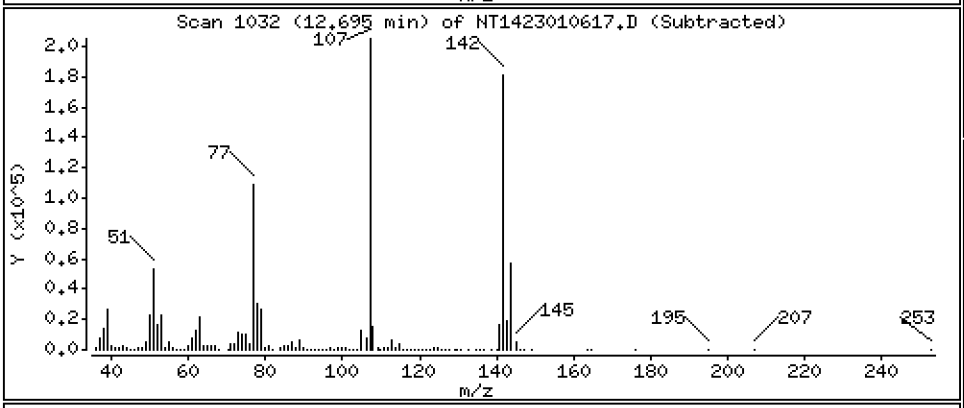
Column phase: ZB-5msi

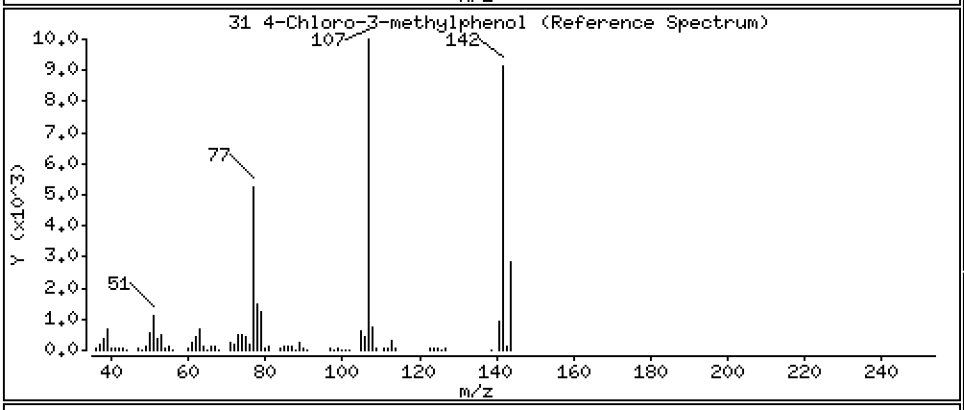
Column diameter: 0.25

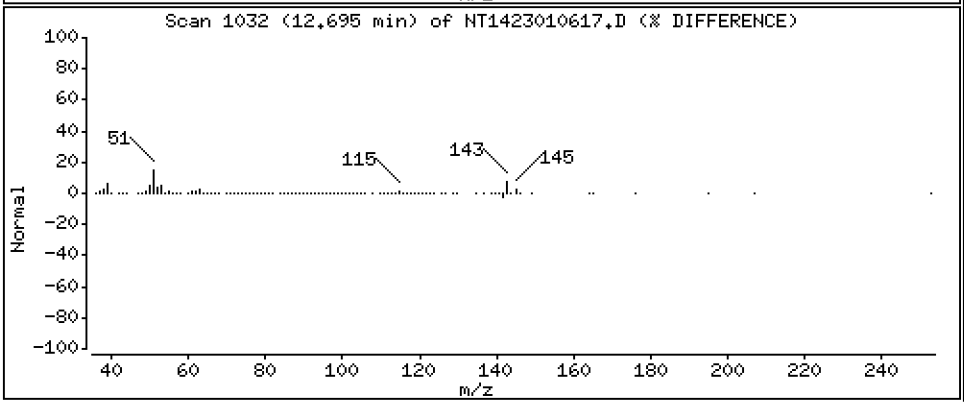
31 4-Chloro-3-methylphenol

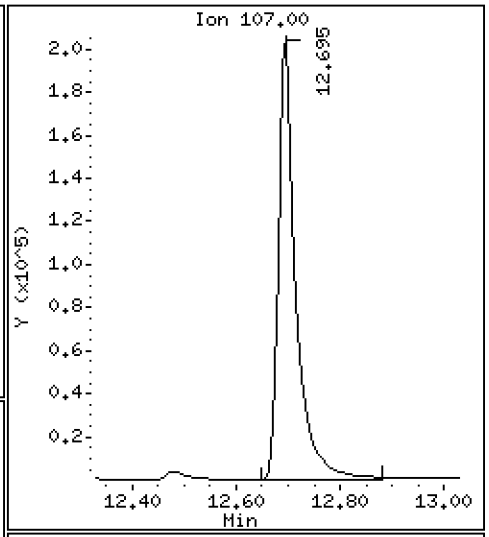
Concentration: 16.04 ug/mL

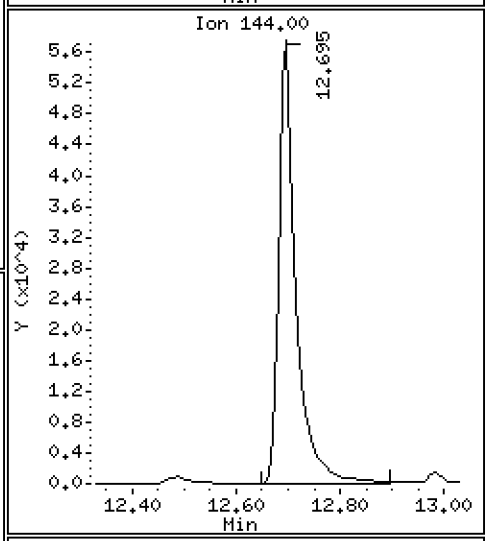


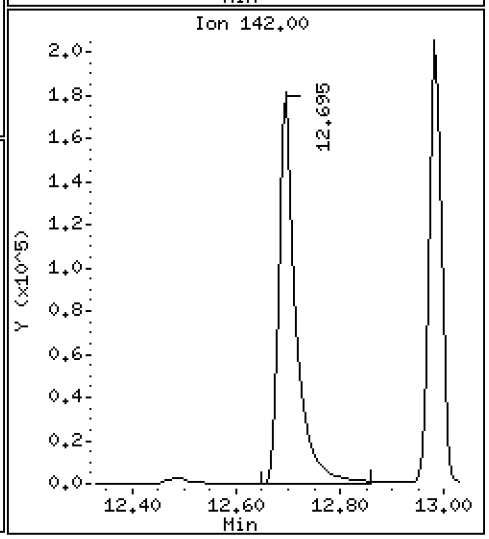












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

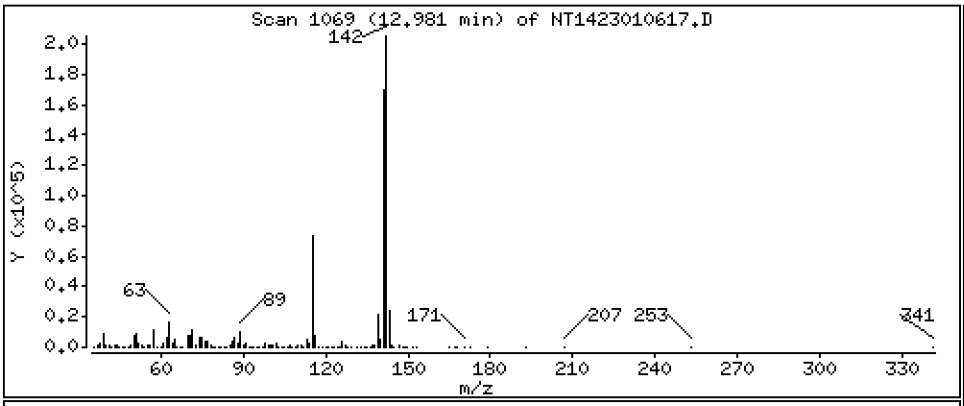
Operator: VTS

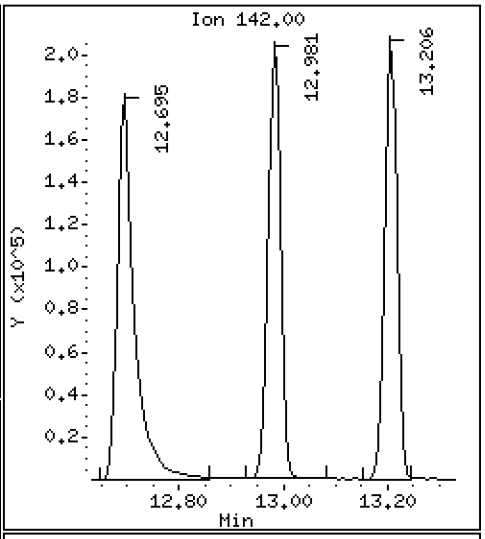
Column phase: ZB-5msi

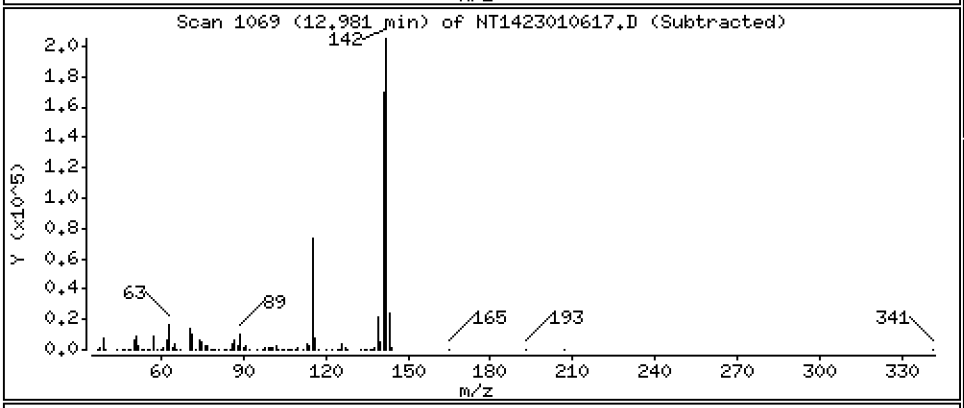
Column diameter: 0.25

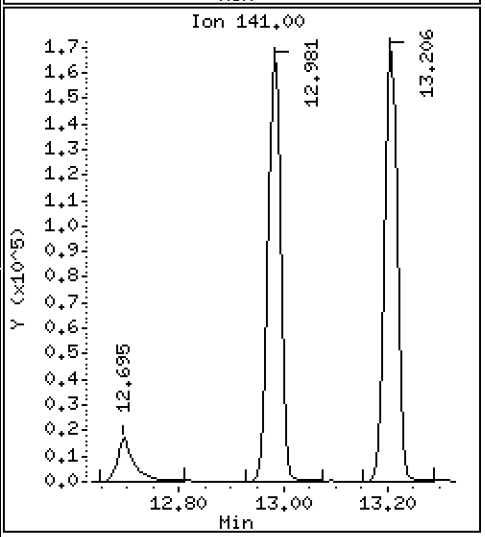
32 2-Methylnaphthalene

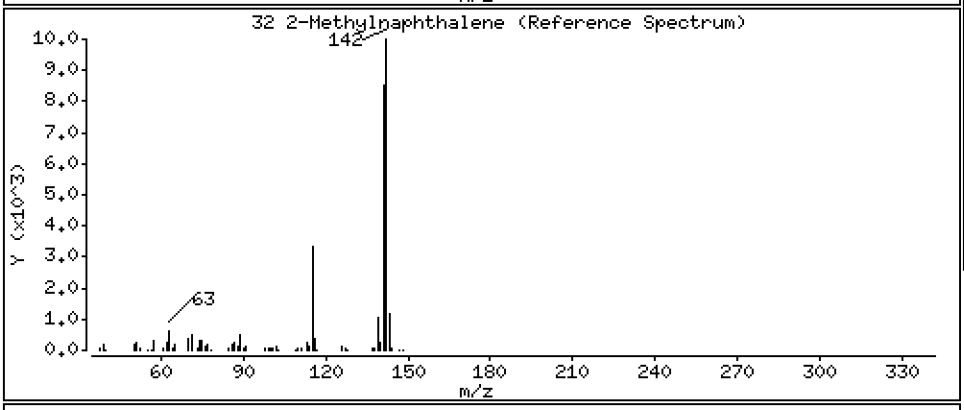
Concentration: 4.198 ug/mL

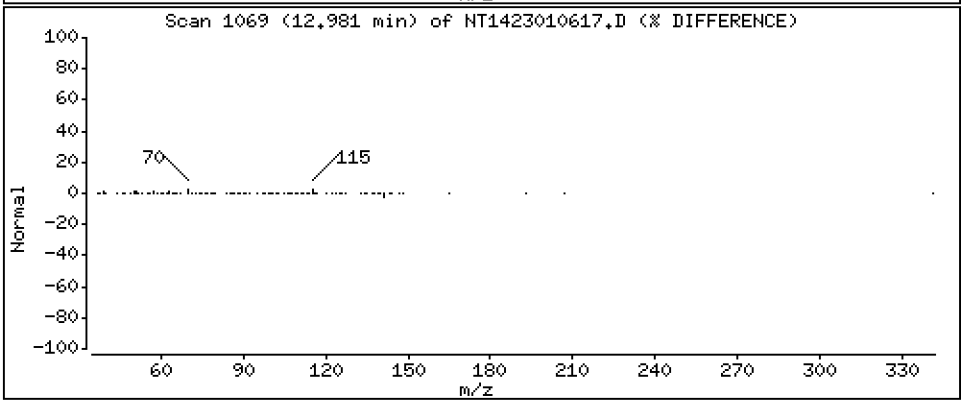












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

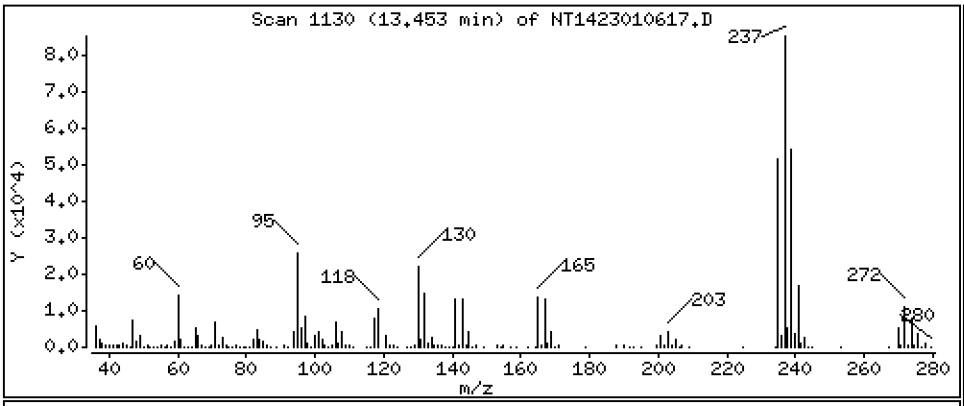
Operator: VTS

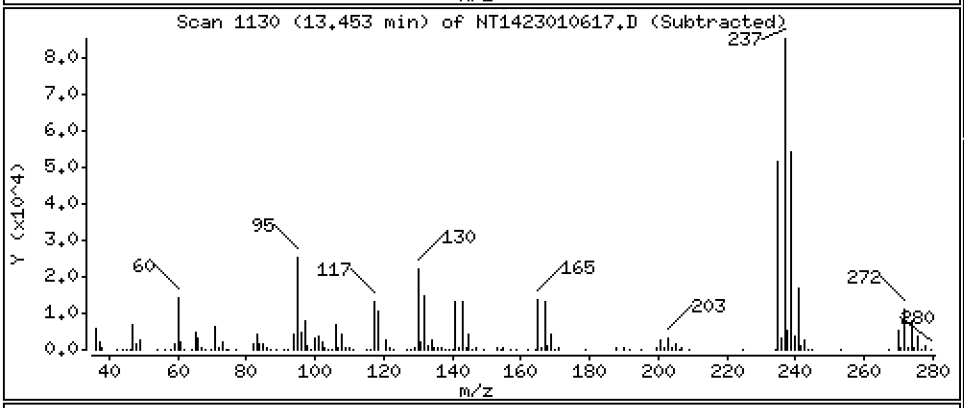
Column phase: ZB-5msi

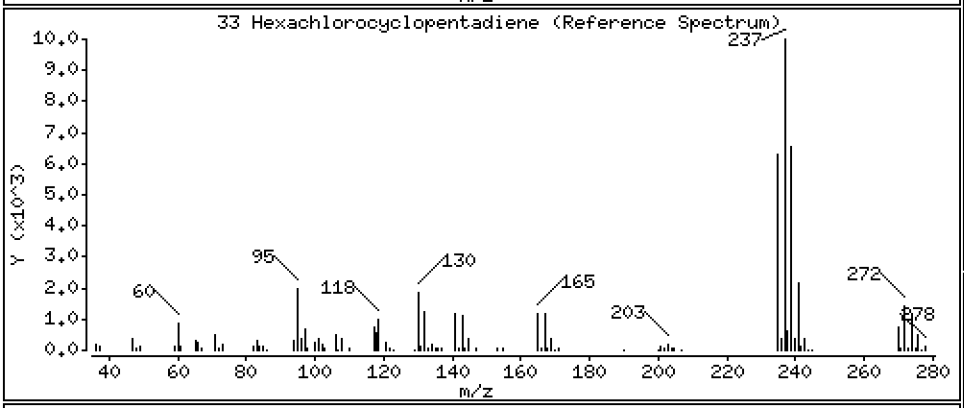
Column diameter: 0.25

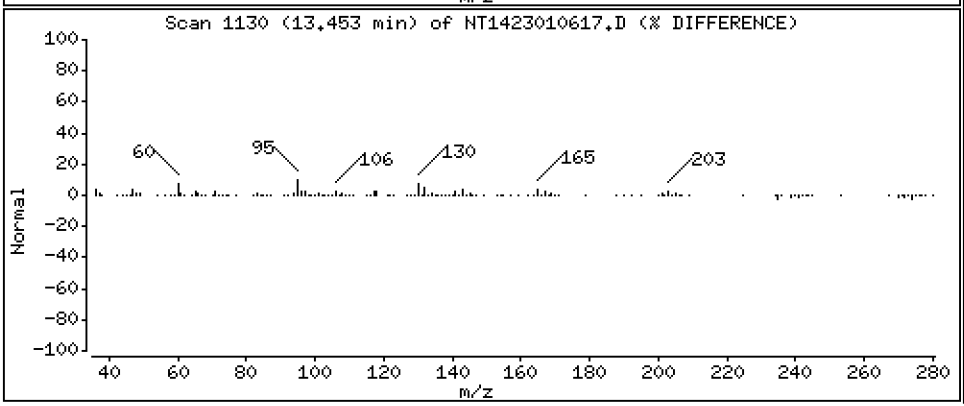
33 Hexachlorocyclopentadiene

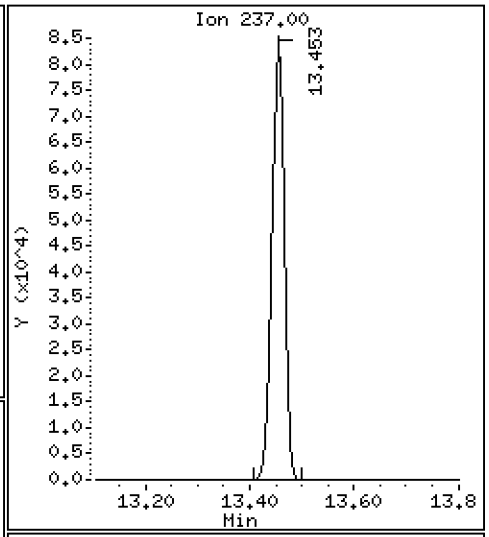
Concentration: 7.950 ug/mL

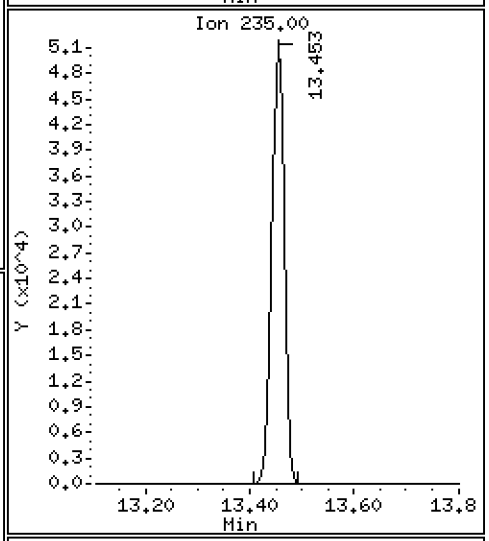


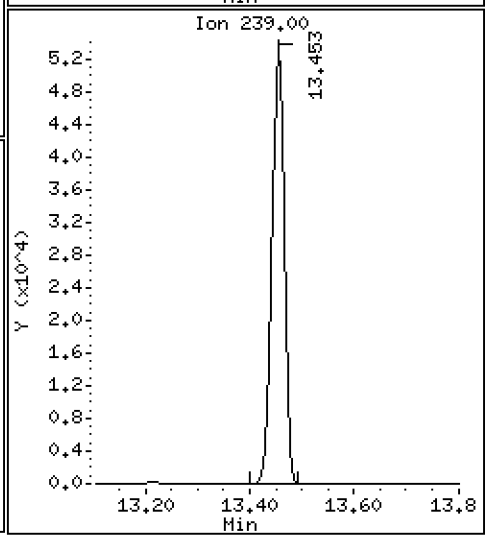












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

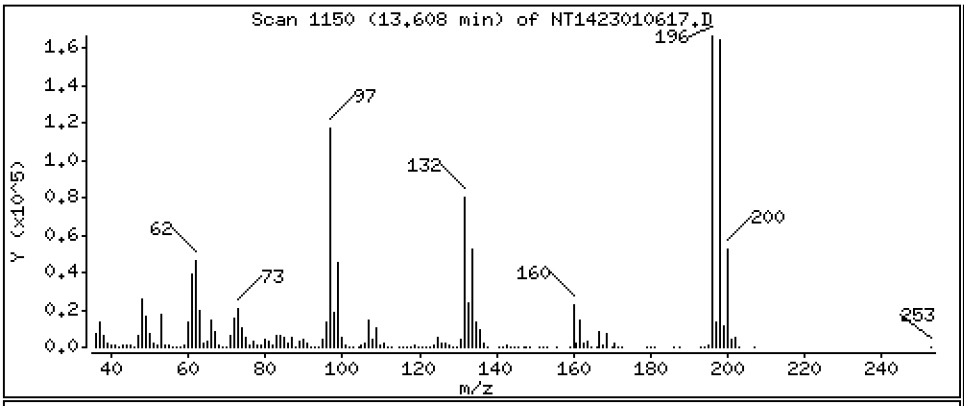
Operator: VTS

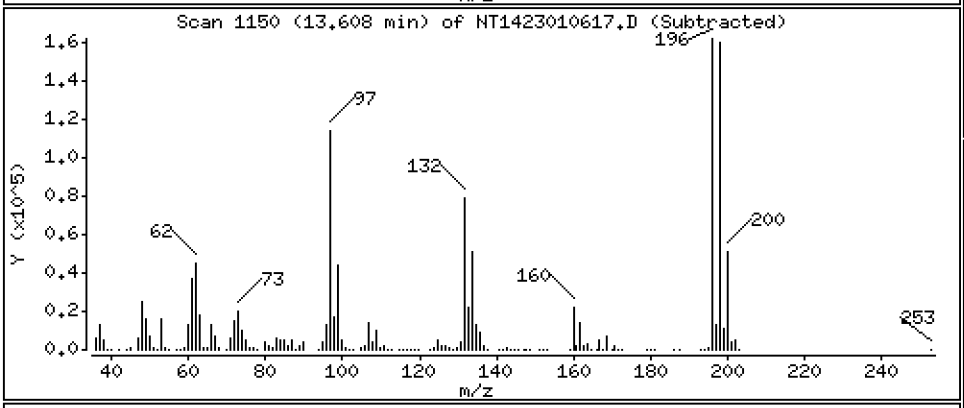
Column phase: ZB-5msi

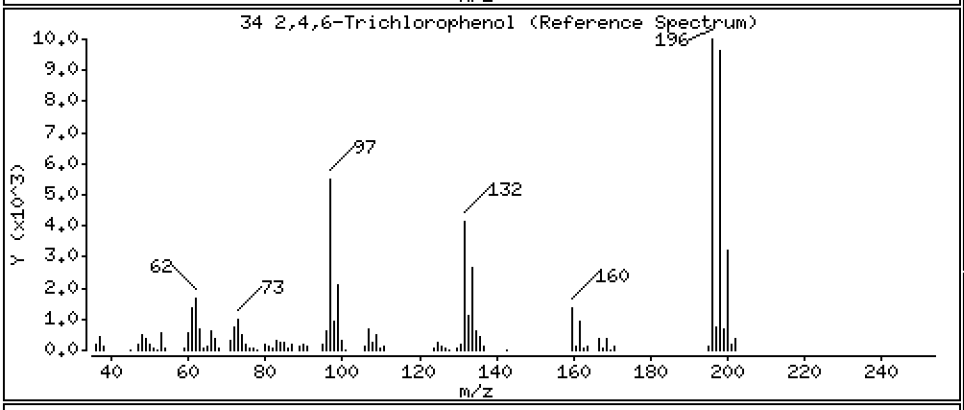
Column diameter: 0.25

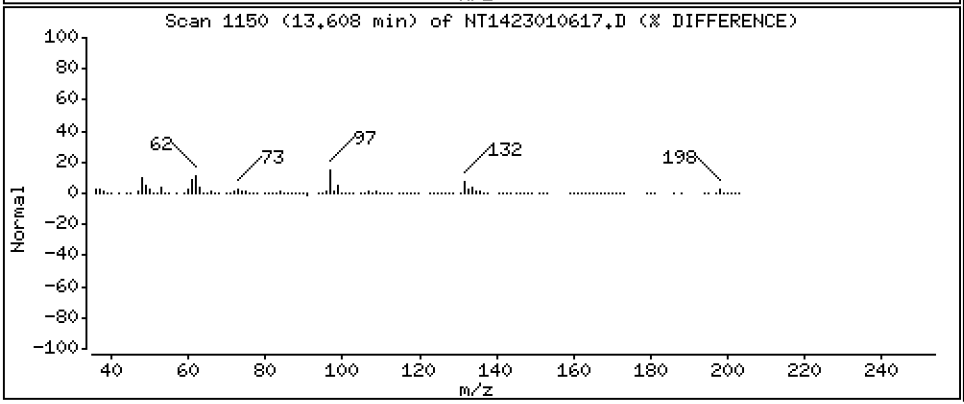
34 2,4,6-Trichlorophenol

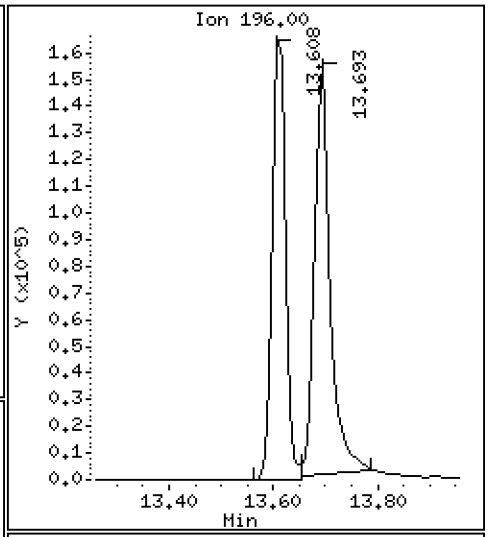
Concentration: 15.29 ug/mL

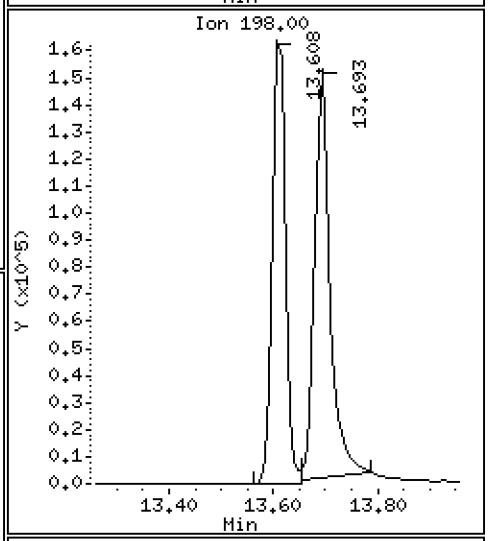


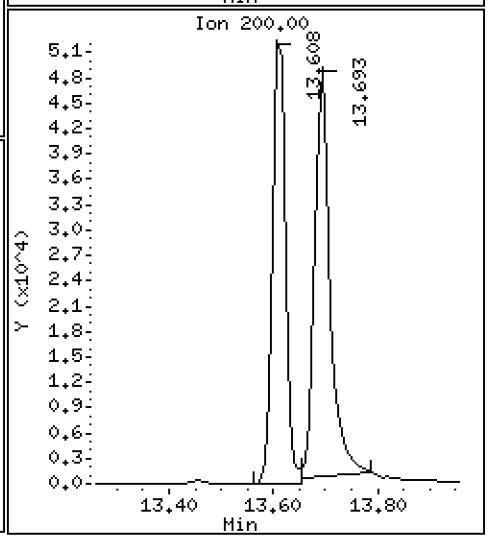












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

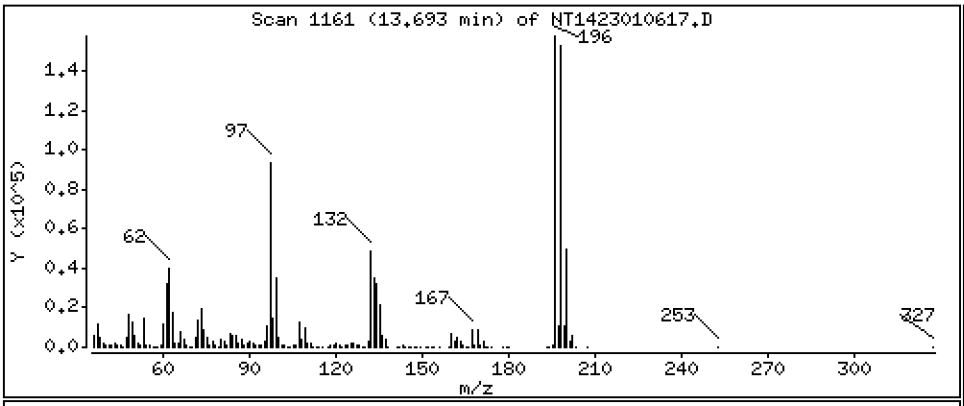
Operator: VTS

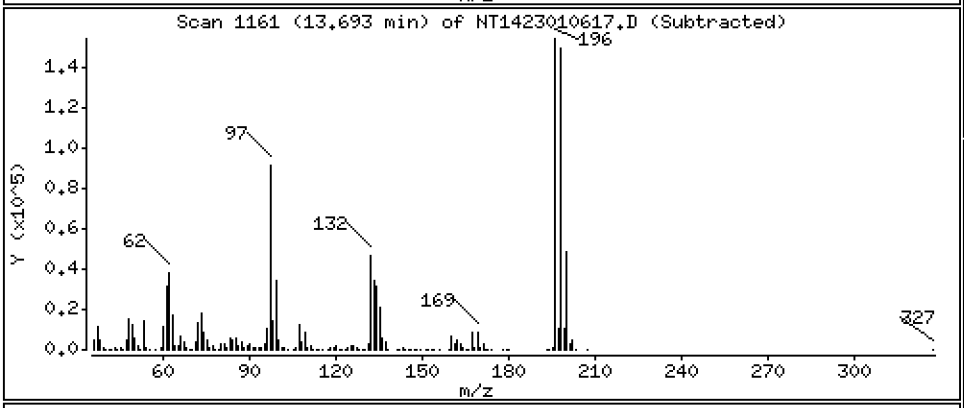
Column phase: ZB-5msi

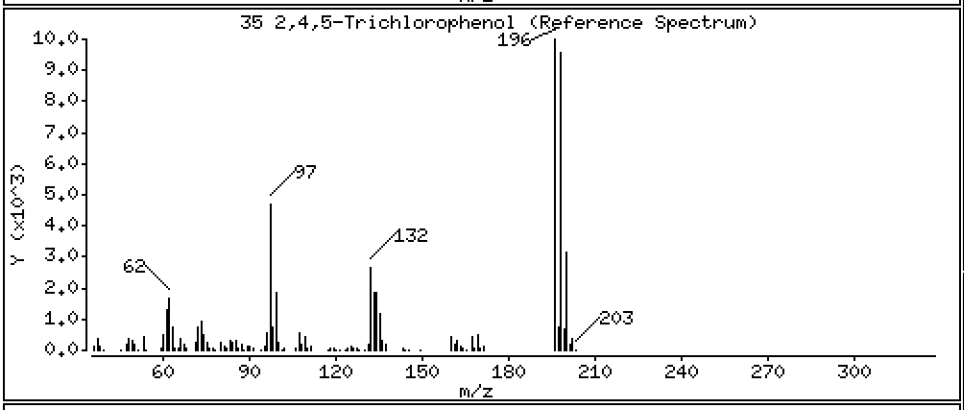
Column diameter: 0.25

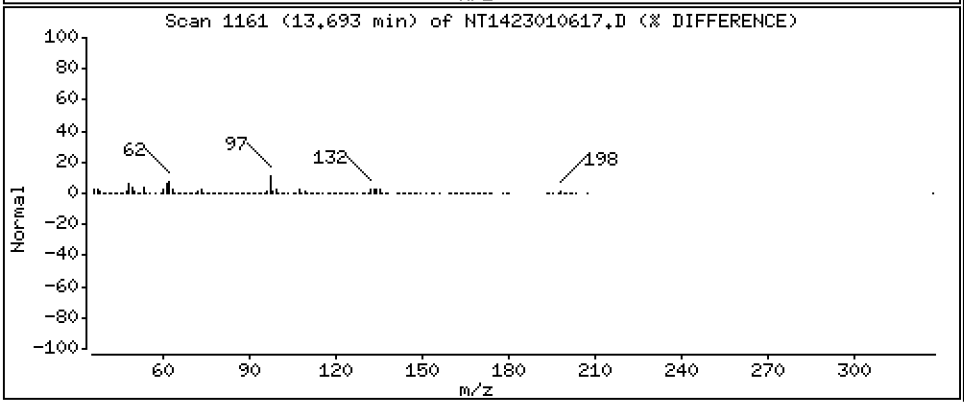
35 2,4,5-Trichlorophenol

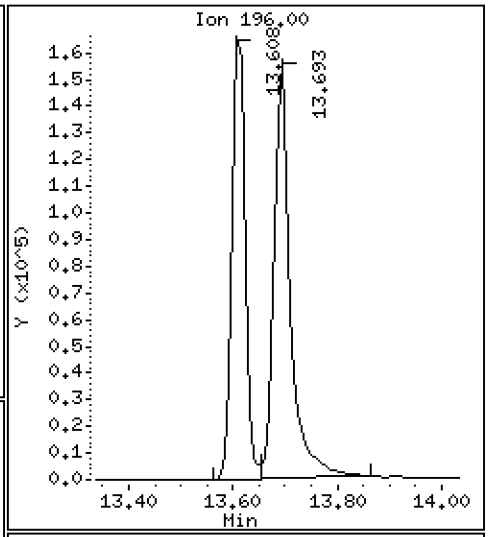
Concentration: 15.85 ug/mL

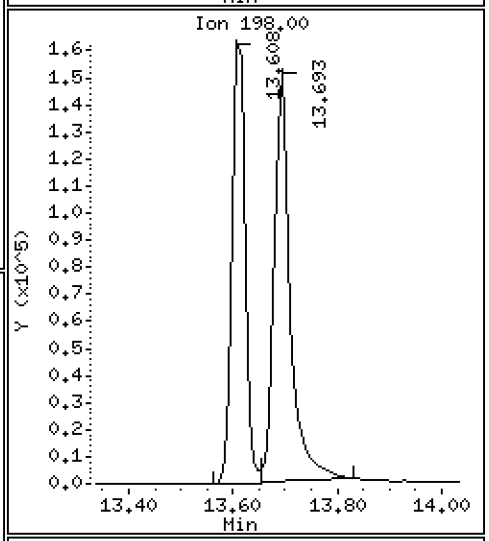


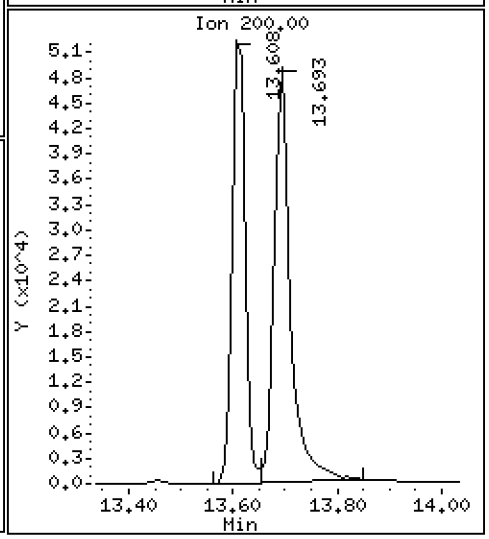












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

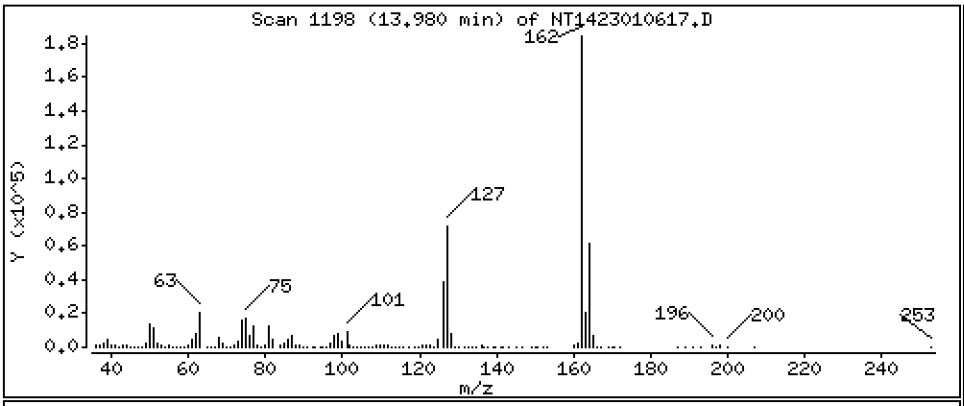
Operator: VTS

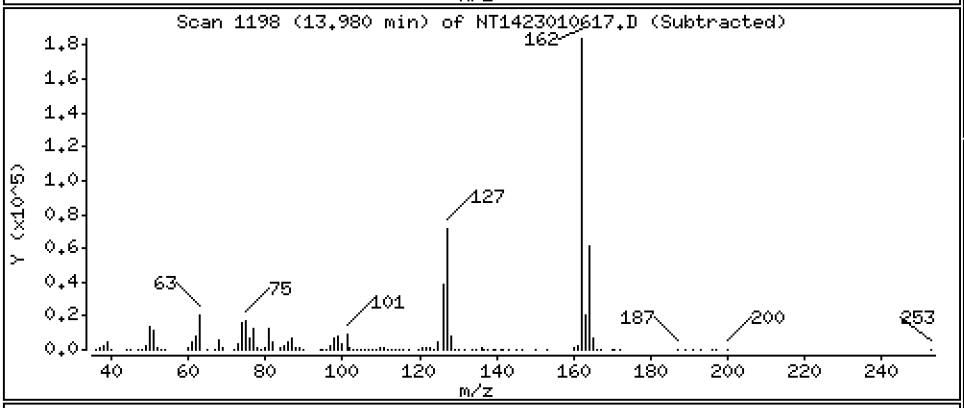
Column phase: ZB-5msi

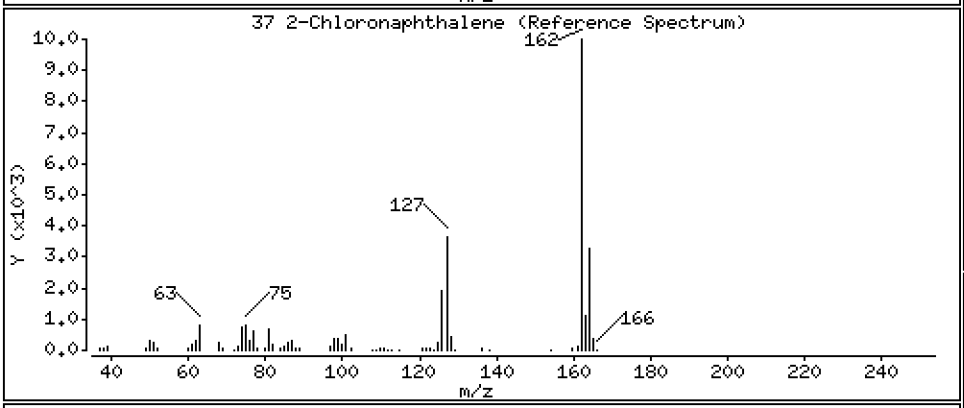
Column diameter: 0.25

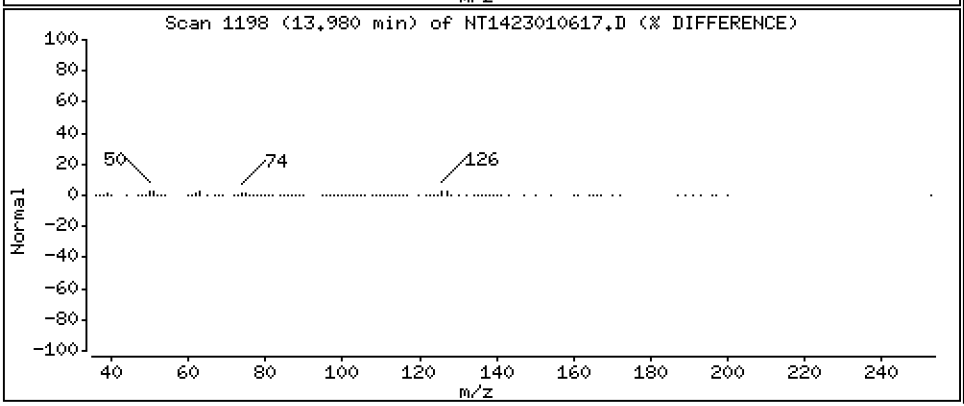
37 2-Chloronaphthalene

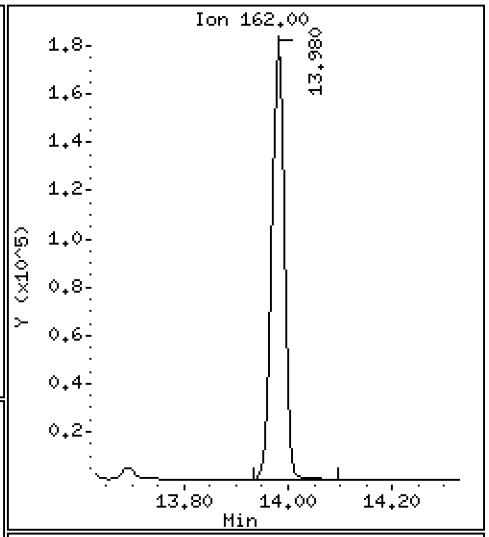
Concentration: 4.622 ug/mL

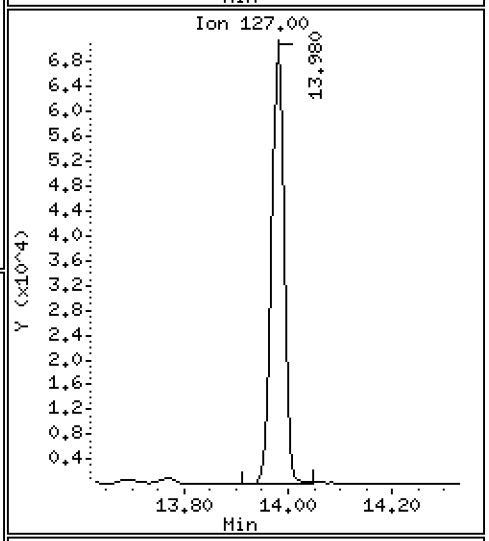


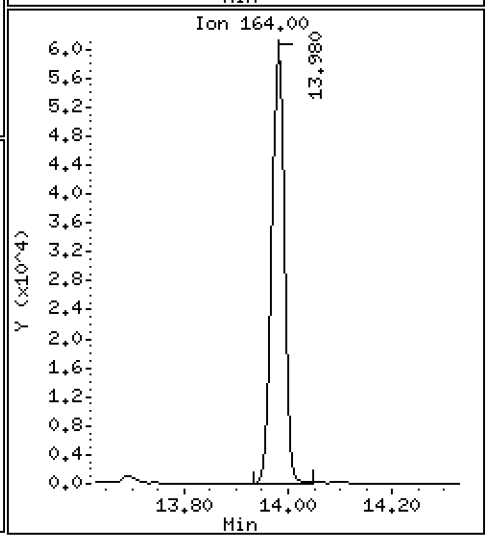












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

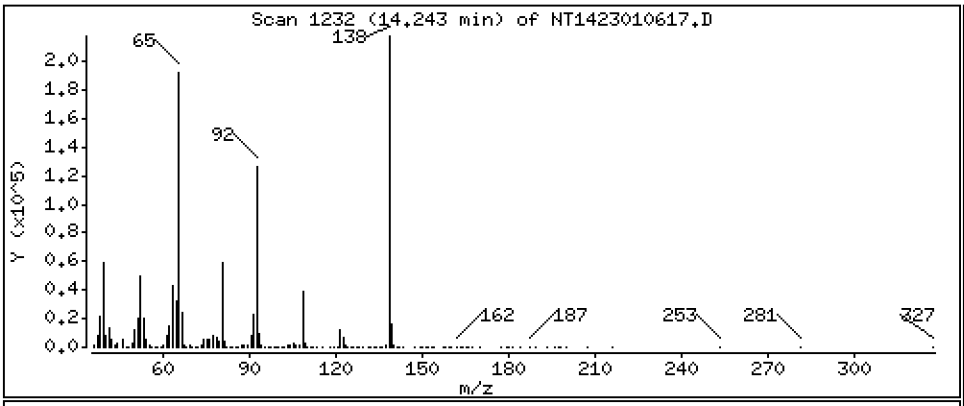
Operator: VTS

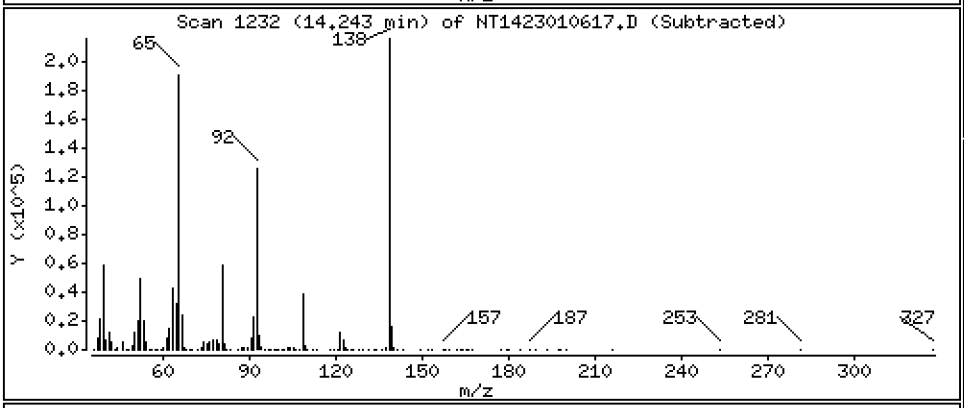
Column phase: ZB-5msi

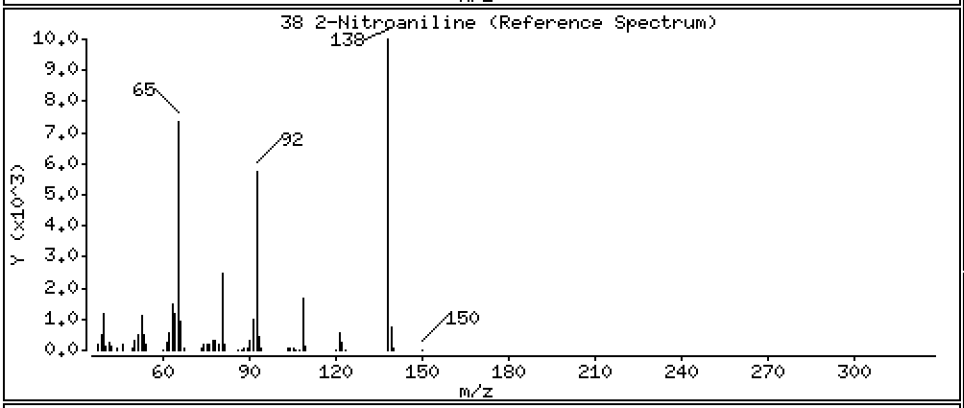
Column diameter: 0.25

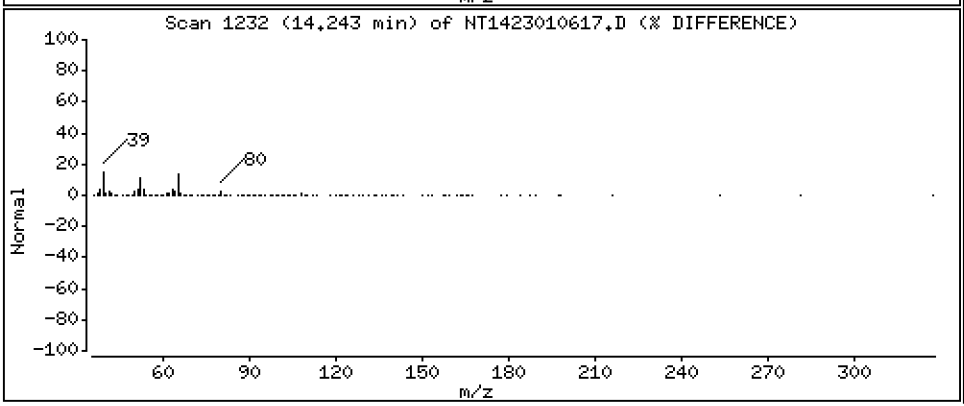
38 2-Nitroaniline

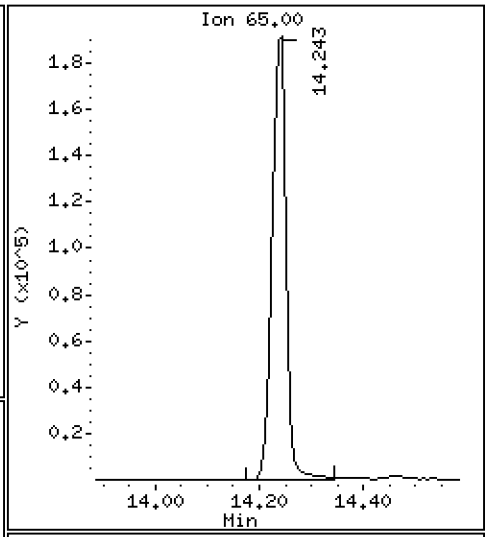
Concentration: 20.89 ug/mL

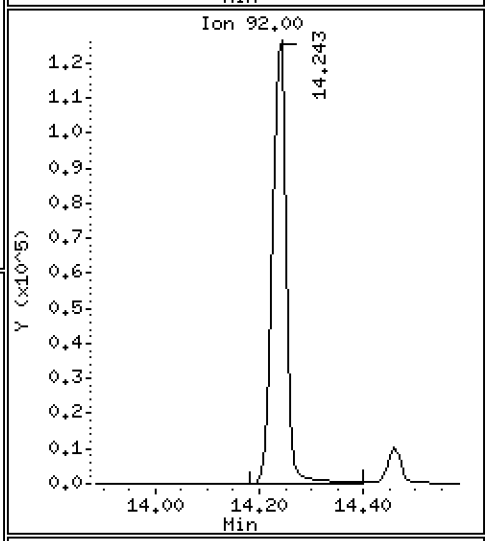


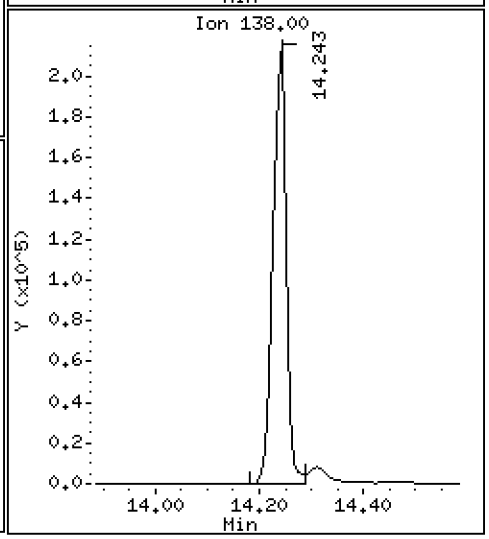












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

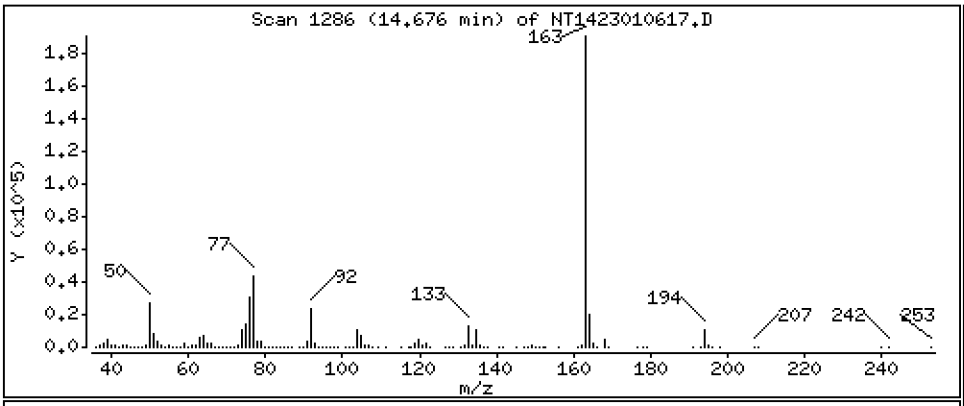
Operator: VTS

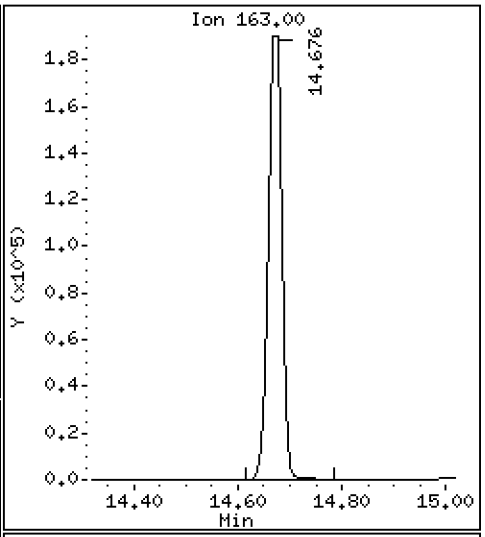
Column phase: ZB-5msi

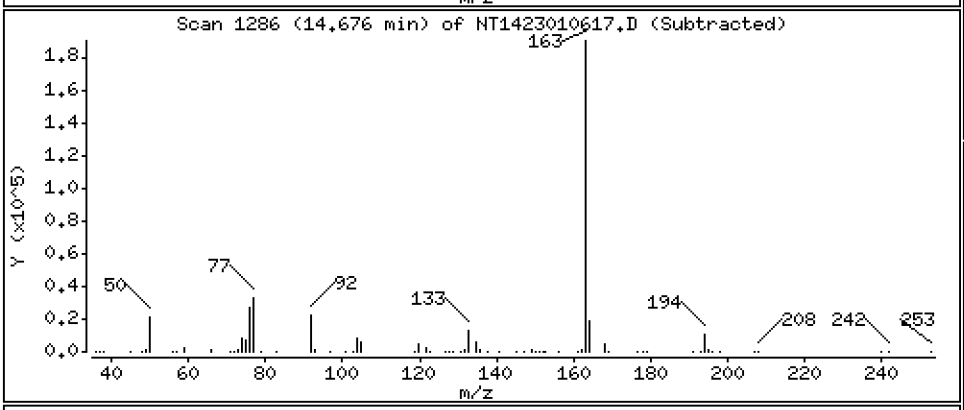
Column diameter: 0.25

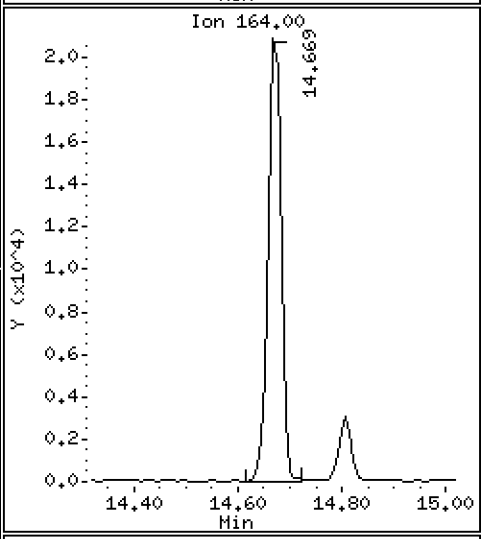
39 Dimethylphthalate

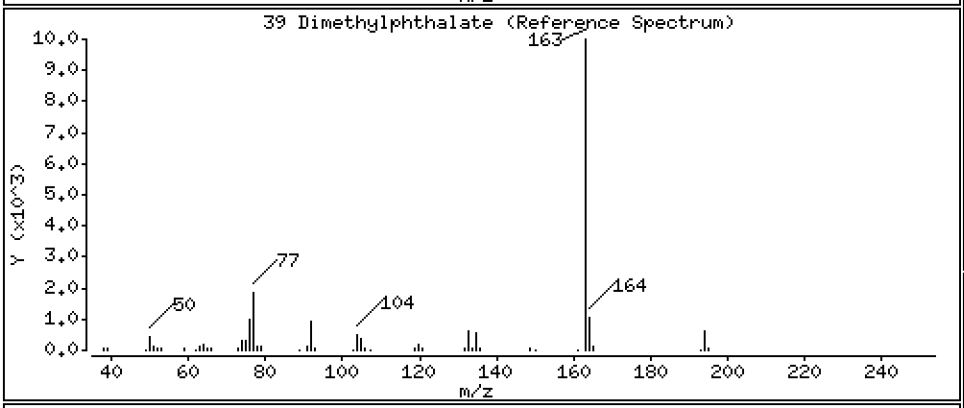
Concentration: 5.273 ug/mL

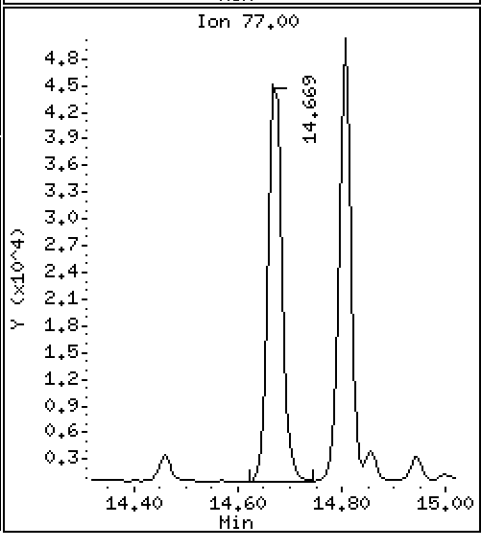


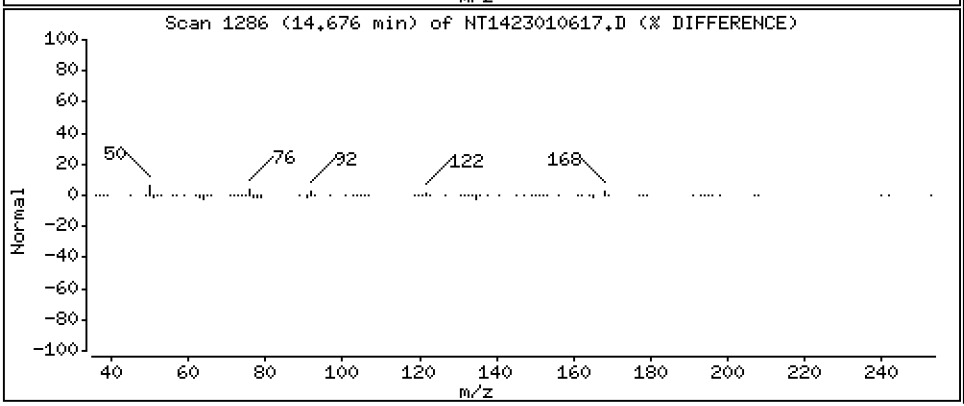












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

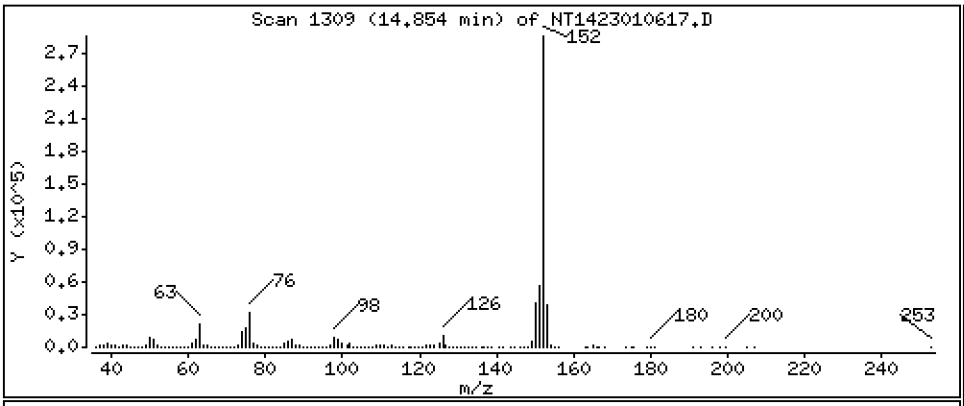
Operator: VTS

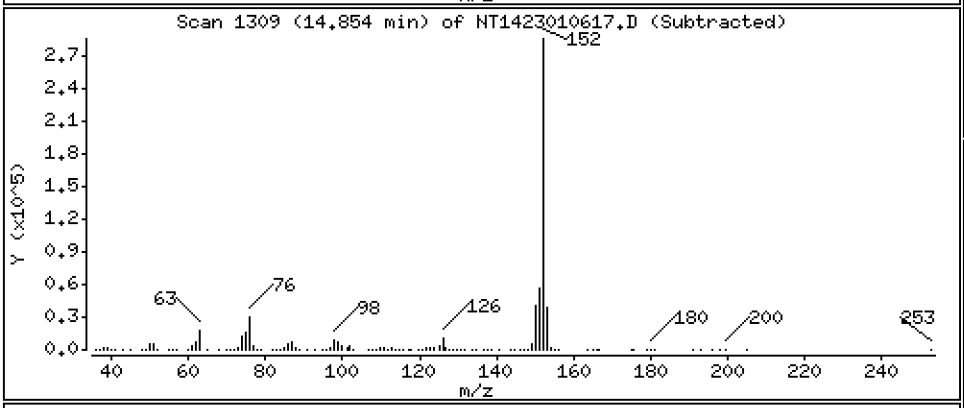
Column phase: ZB-5msi

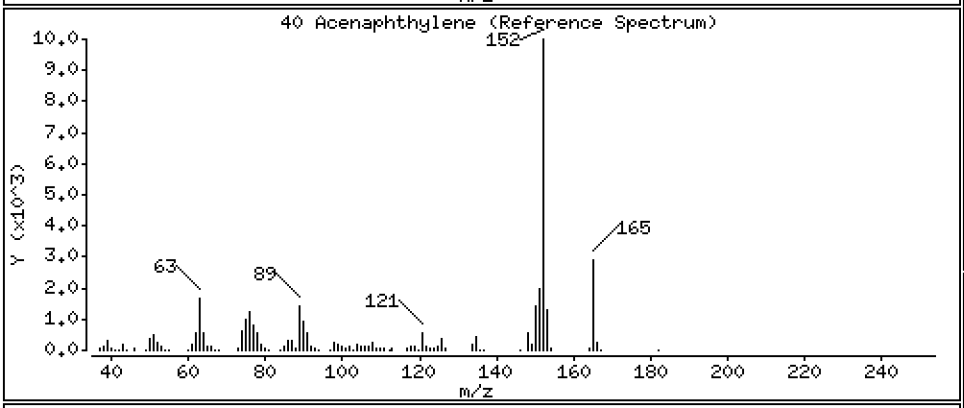
Column diameter: 0.25

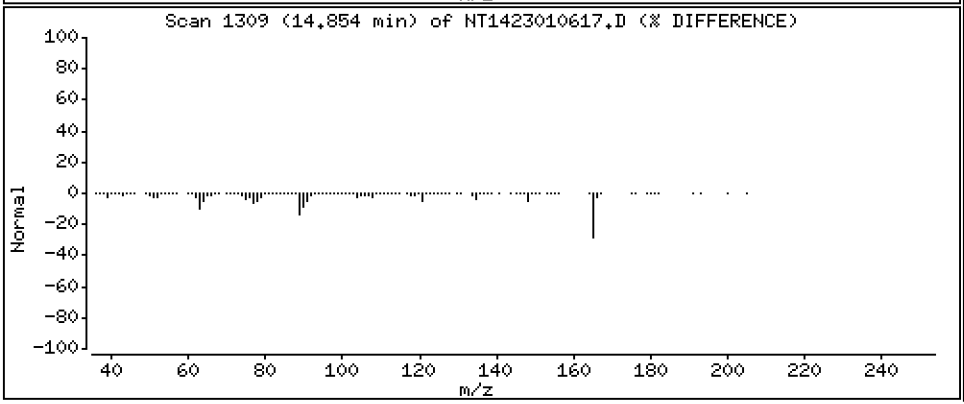
40 Acenaphthylene

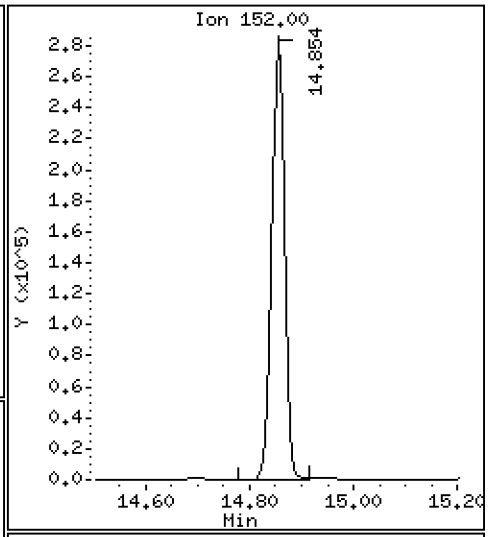
Concentration: 4.833 ug/mL

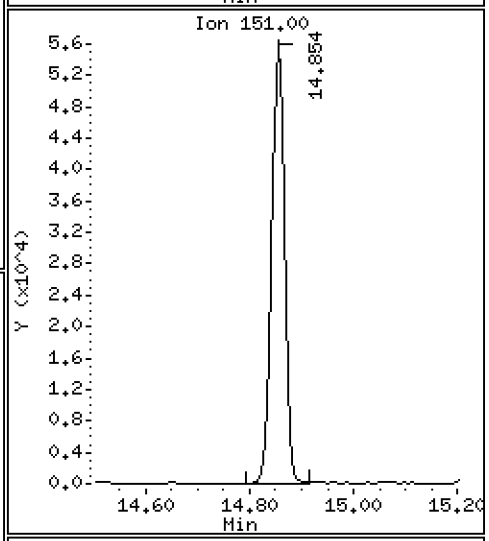


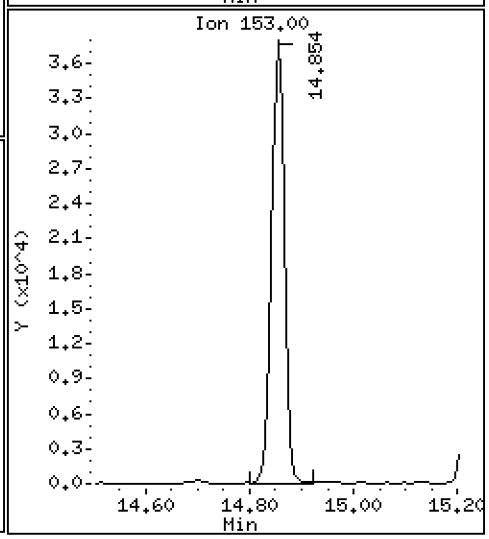












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

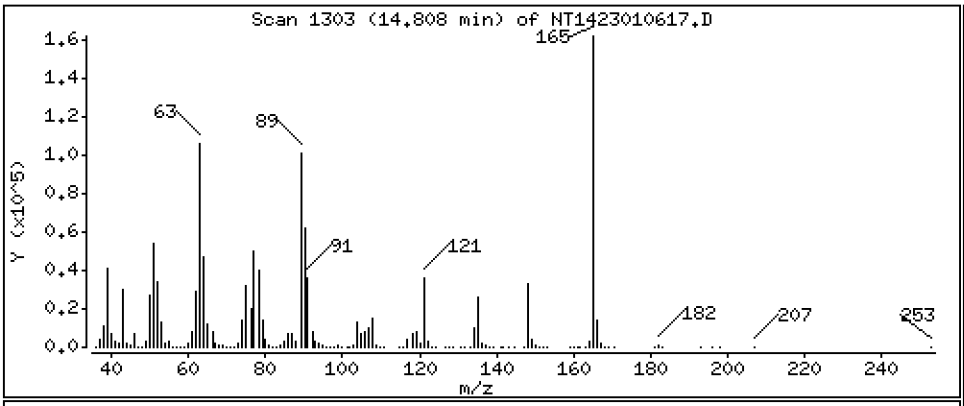
Operator: VTS

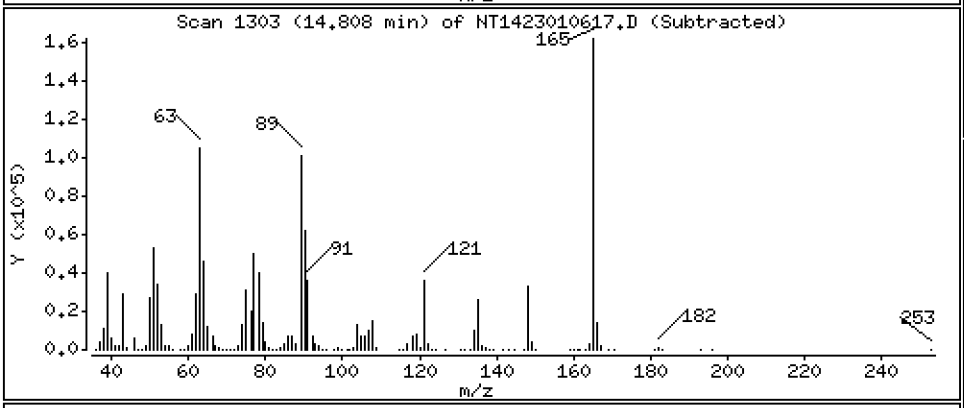
Column phase: ZB-5msi

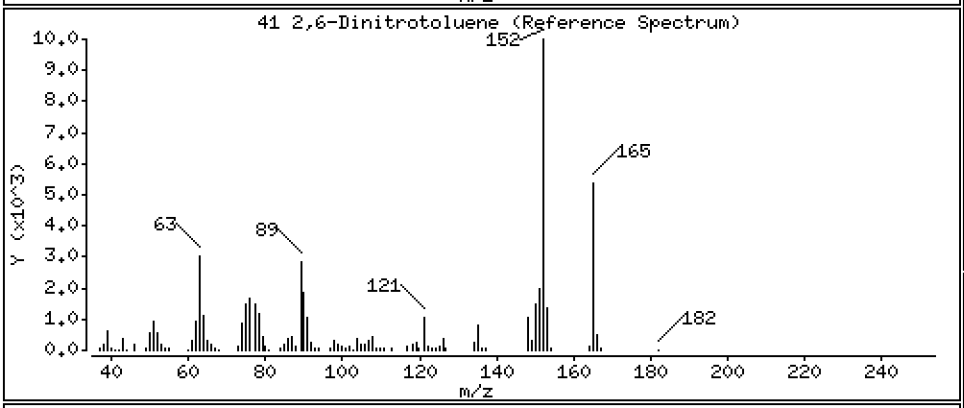
Column diameter: 0.25

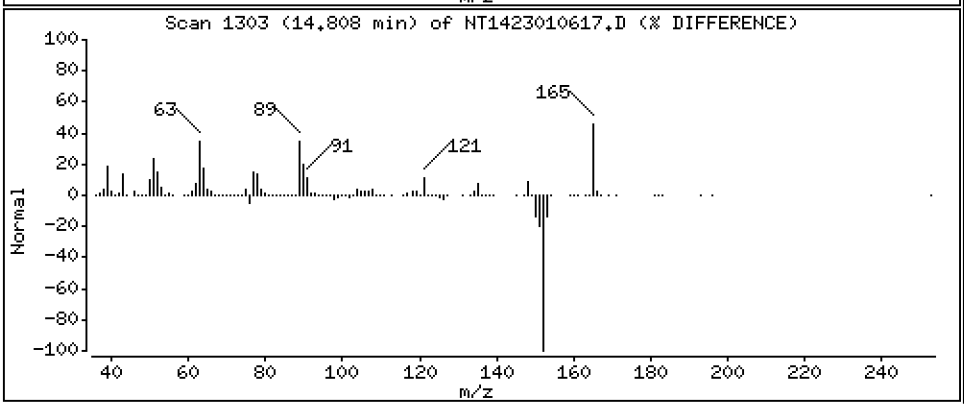
41 2,6-Dinitrotoluene

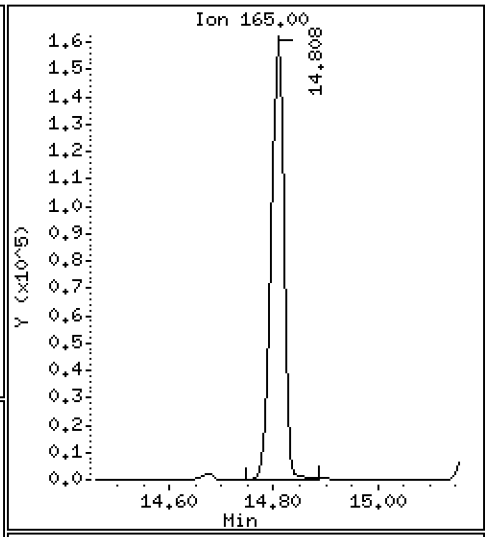
Concentration: 18.82 ug/mL

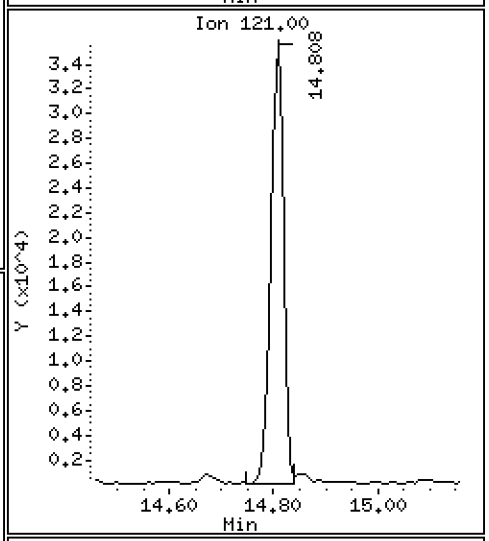


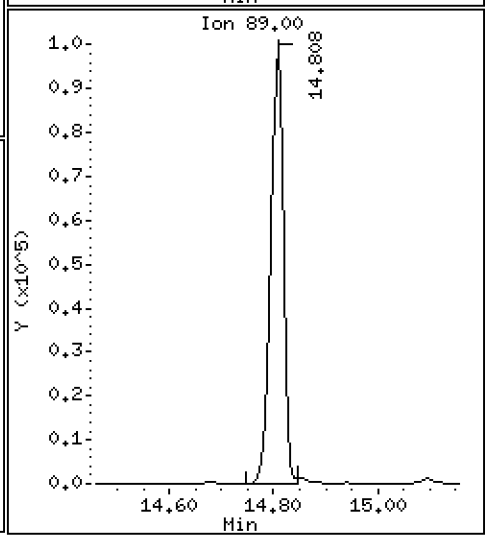












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

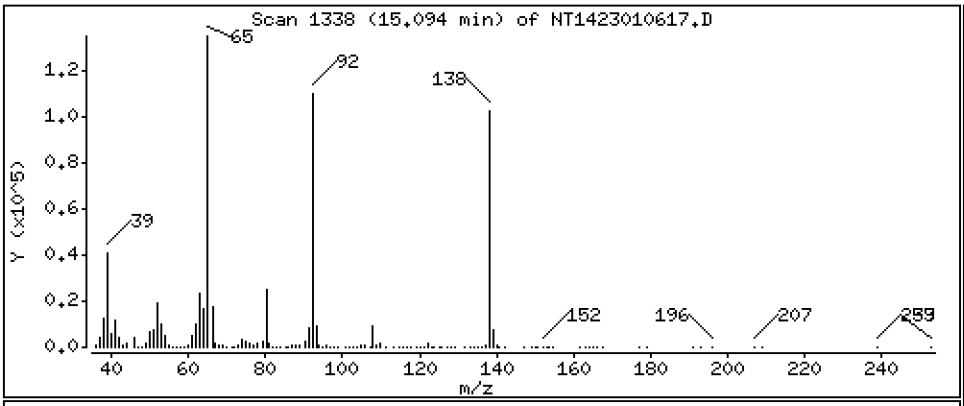
Operator: VTS

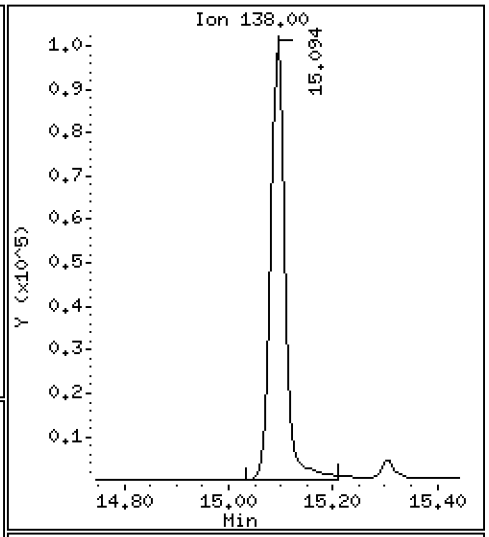
Column phase: ZB-5msi

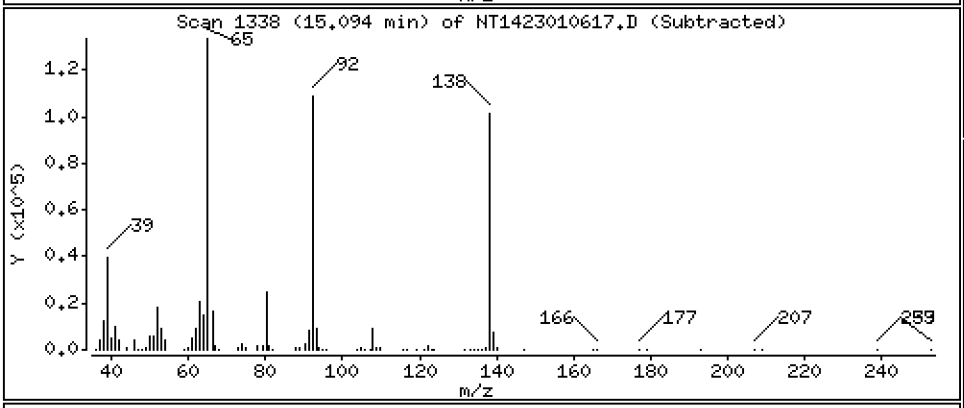
Column diameter: 0.25

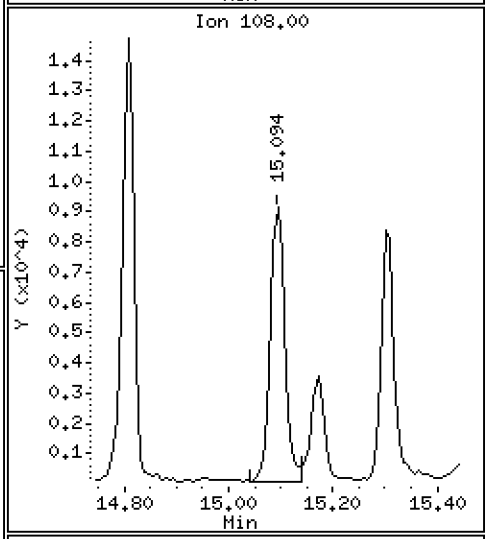
43 3-Nitroaniline

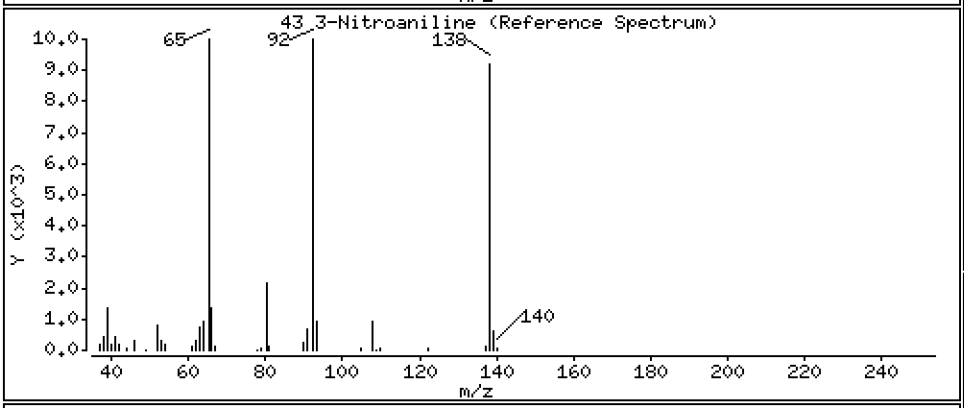
Concentration: 10.97 ug/mL

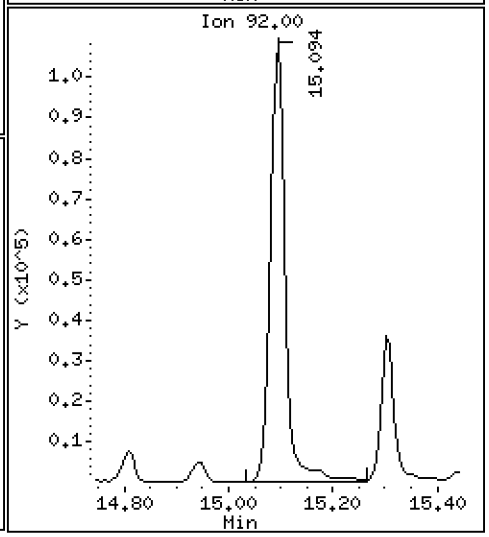


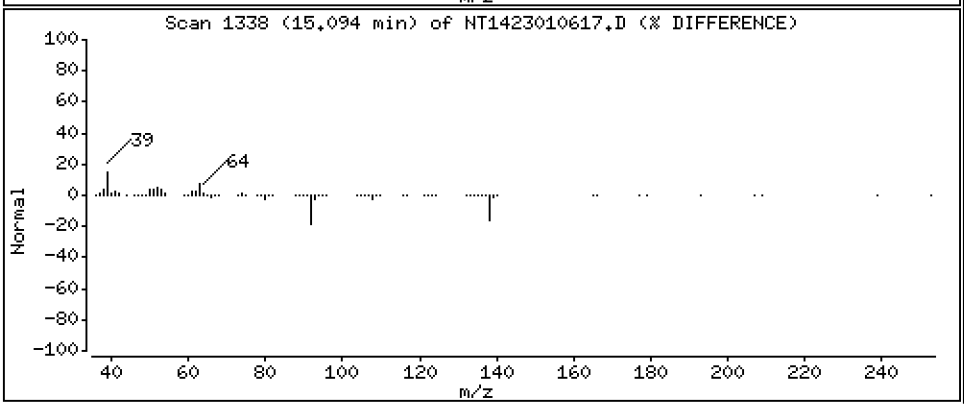












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

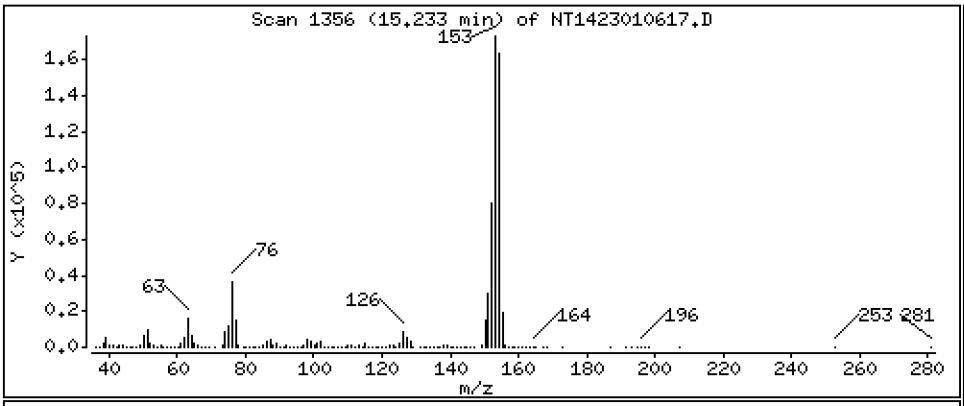
Operator: VTS

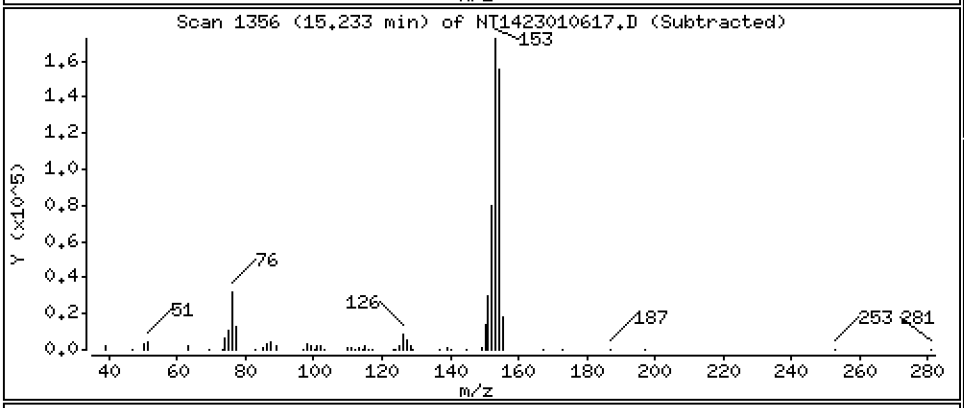
Column phase: ZB-5msi

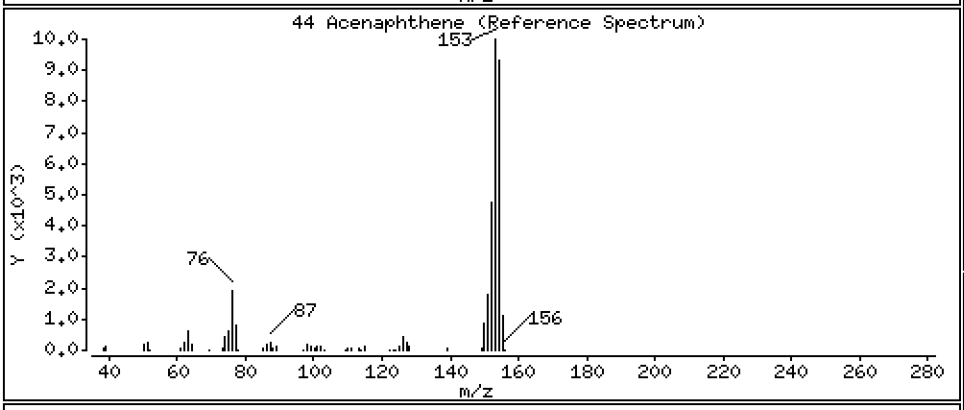
Column diameter: 0.25

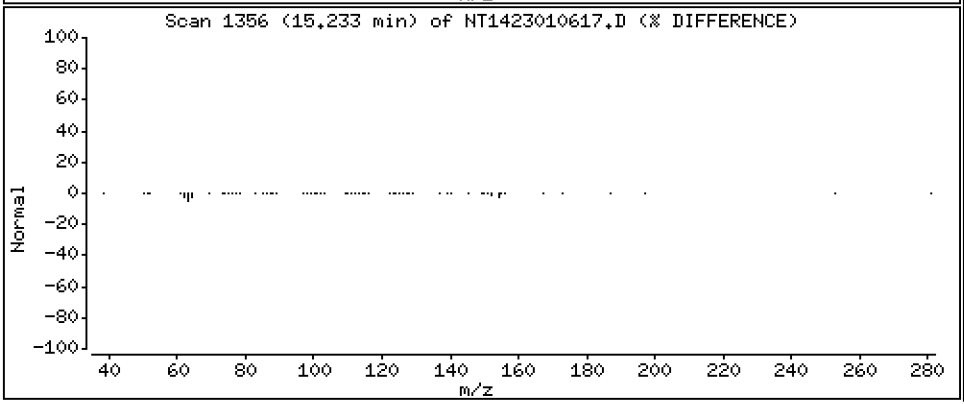
44 Acenaphthene

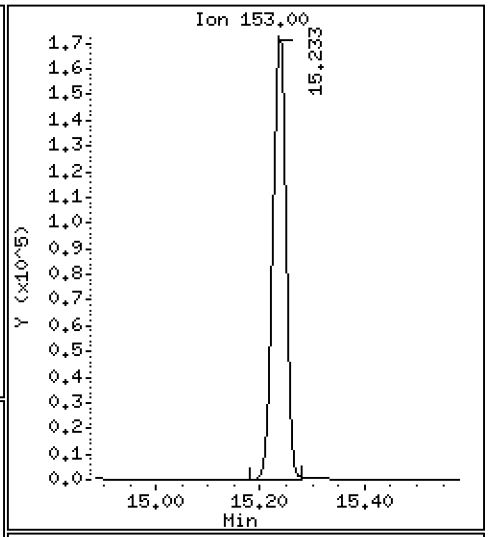
Concentration: 4.905 ug/mL

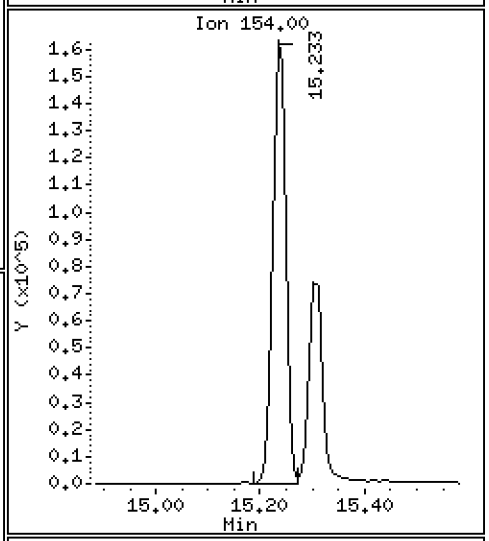


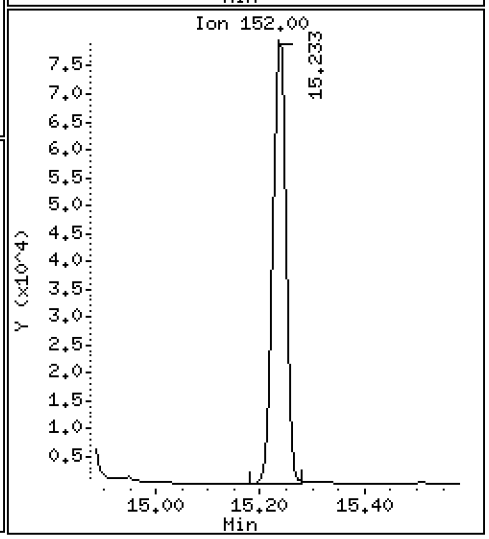












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

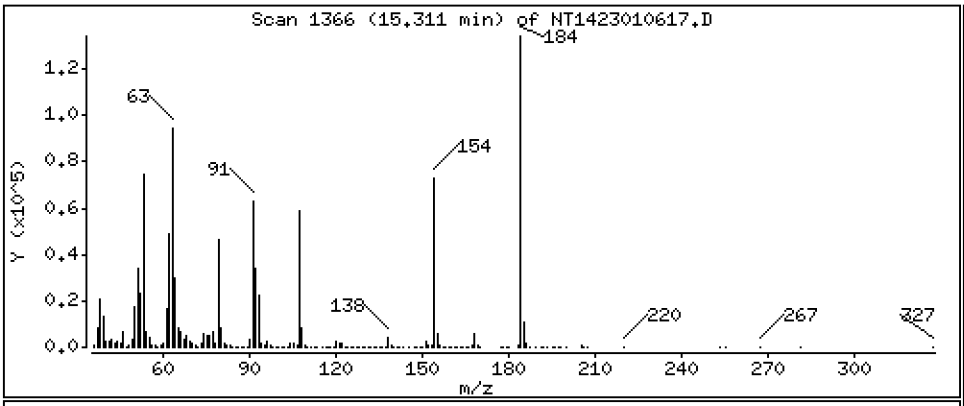
Operator: VTS

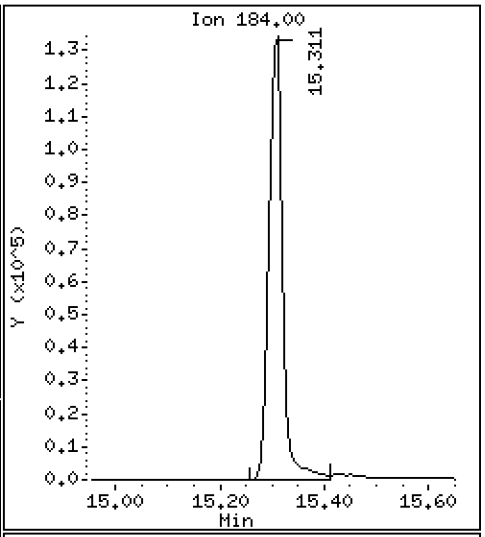
Column phase: ZB-5msi

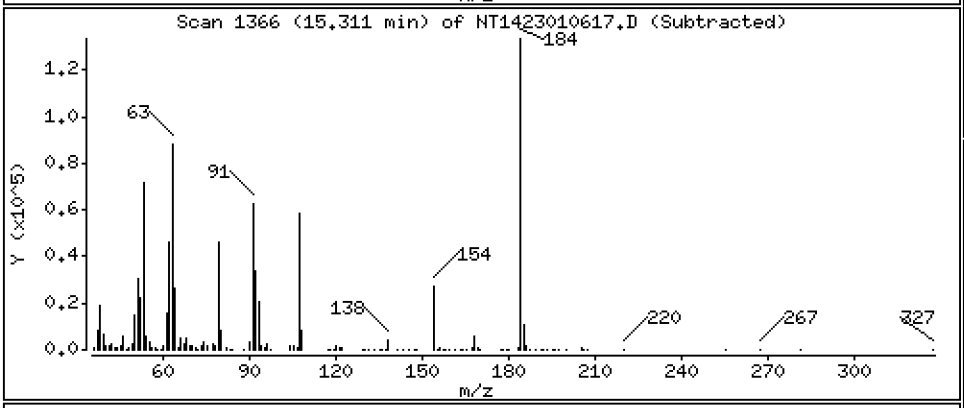
Column diameter: 0.25

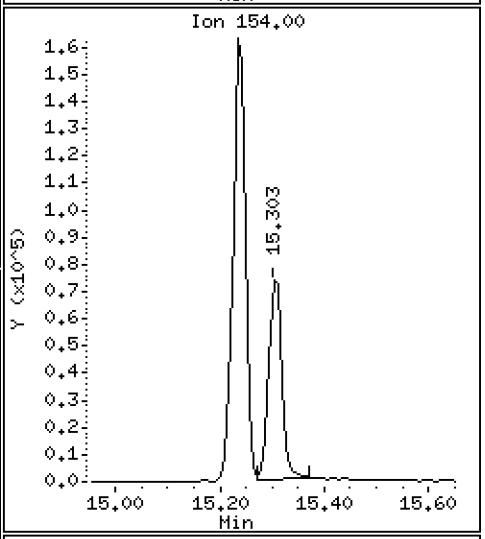
45 2,4-Dinitrophenol

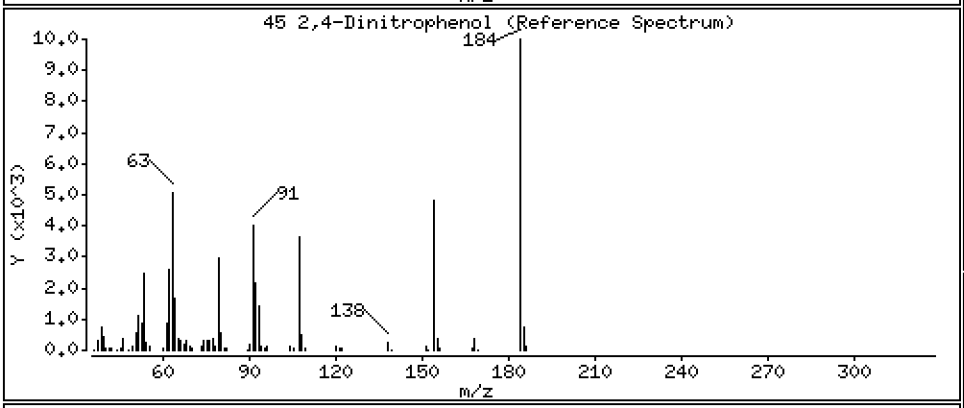
Concentration: 18.98 ug/mL

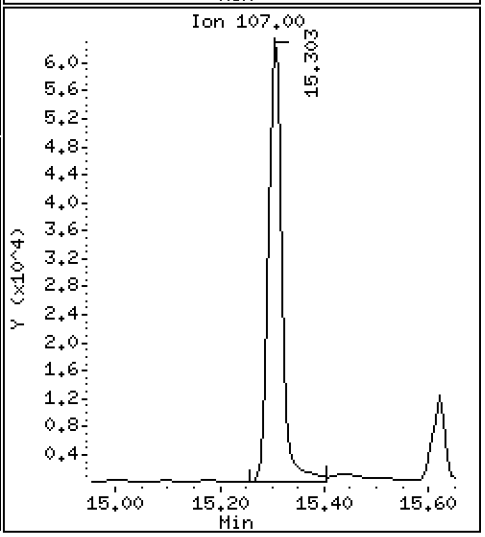


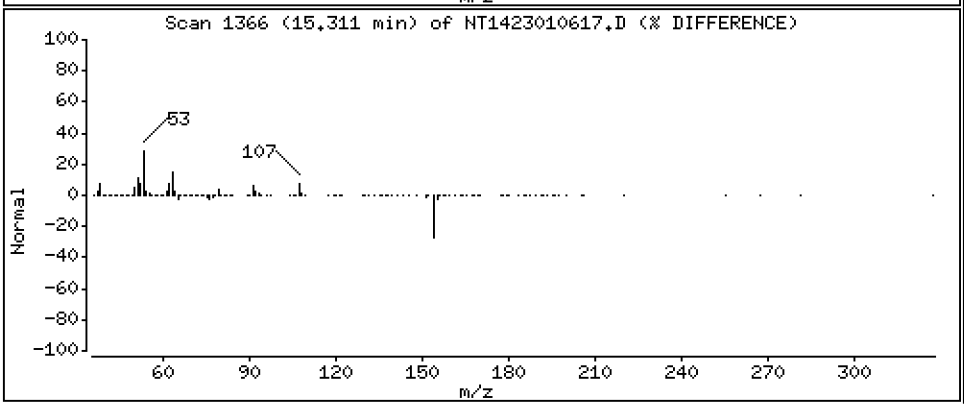












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

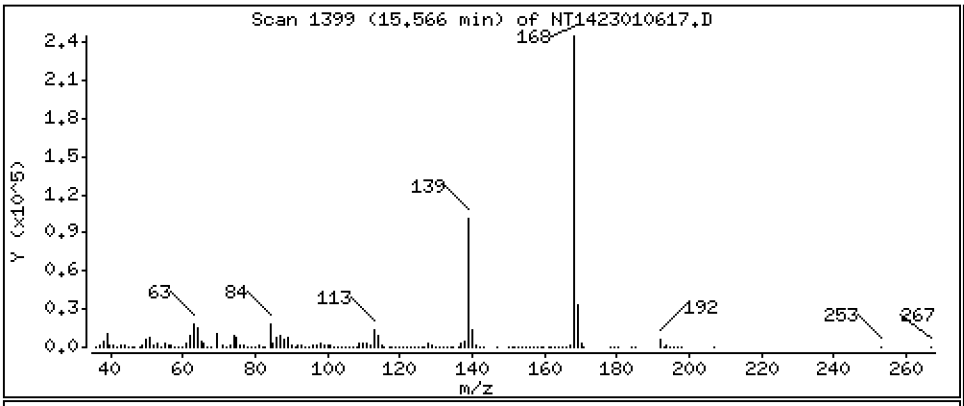
Operator: VTS

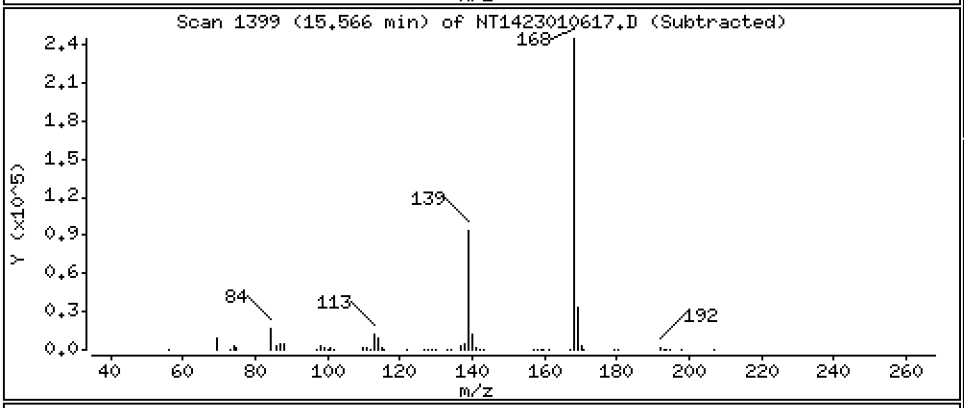
Column phase: ZB-5msi

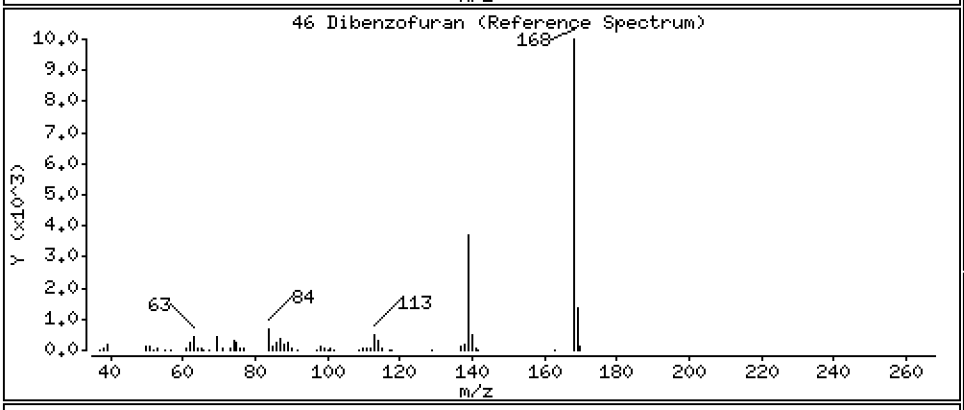
Column diameter: 0.25

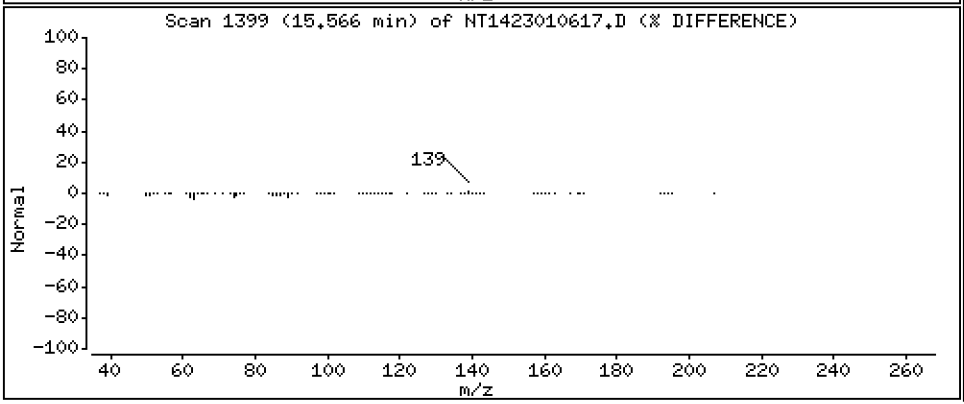
46 Dibenzofuran

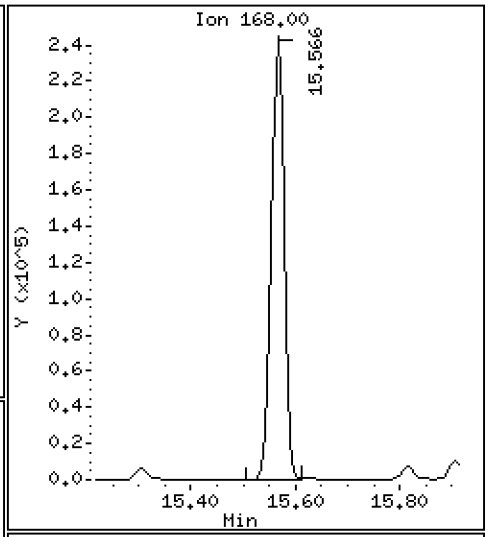
Concentration: 4.490 ug/mL

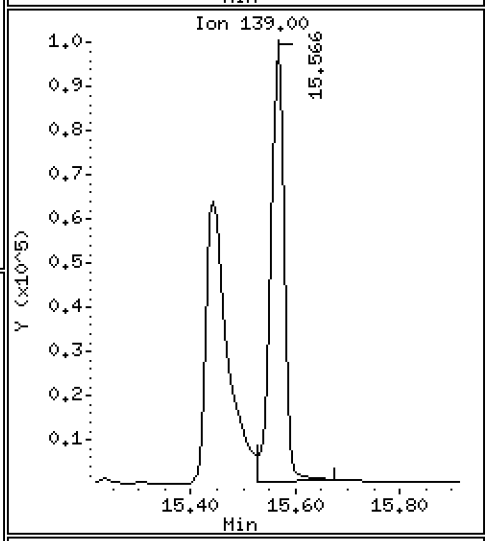


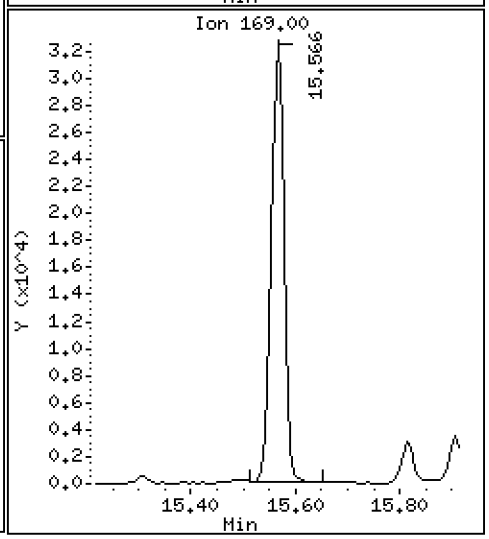












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

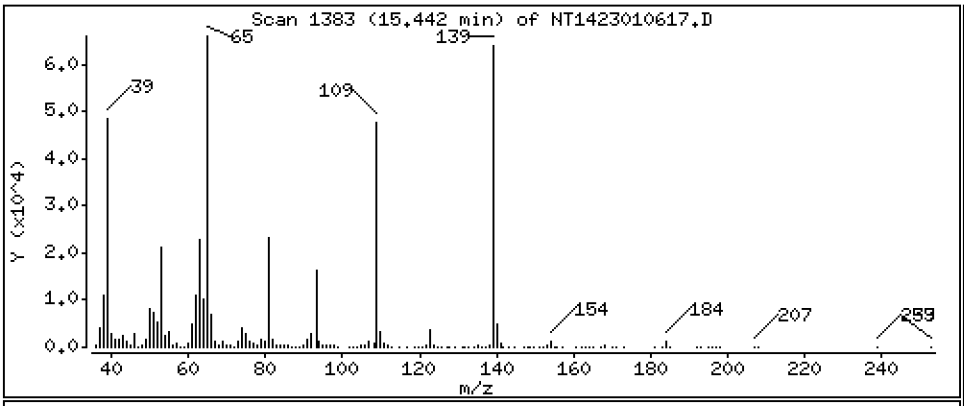
Operator: VTS

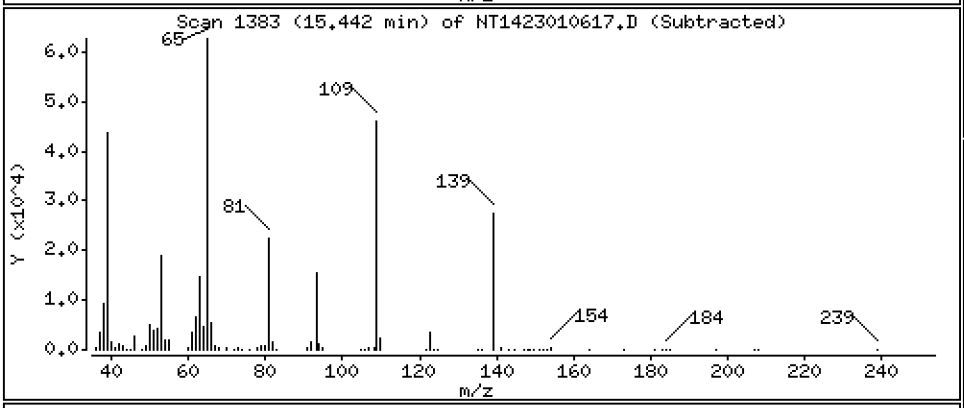
Column phase: ZB-5msi

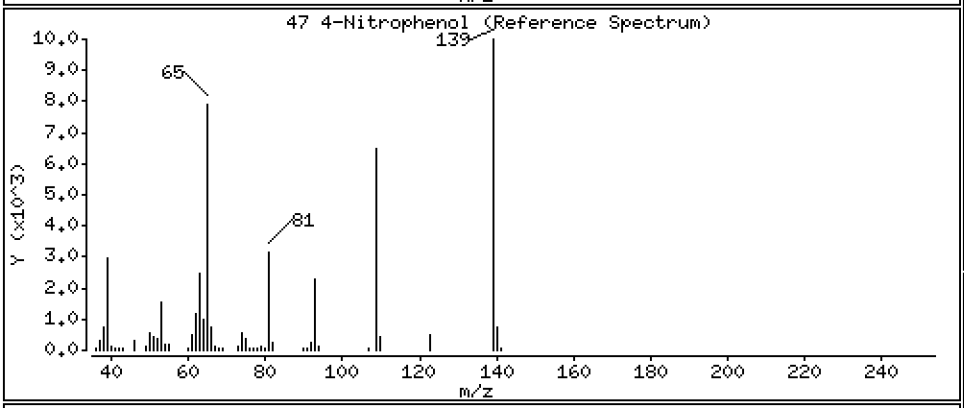
Column diameter: 0.25

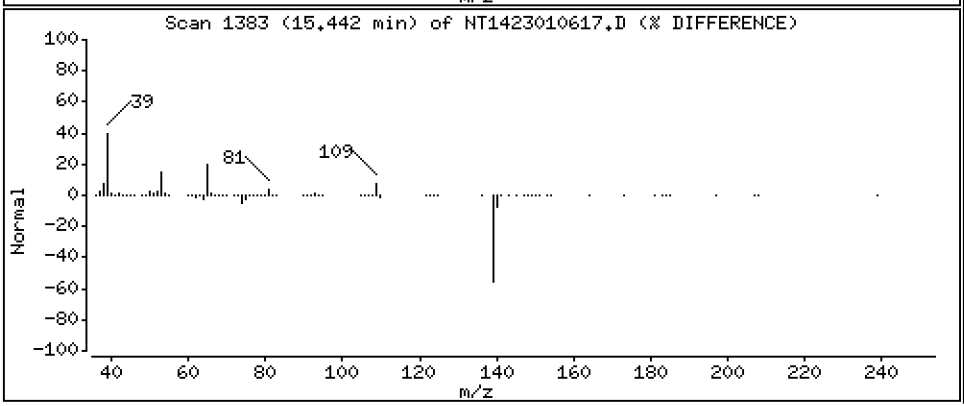
47 4-Nitrophenol

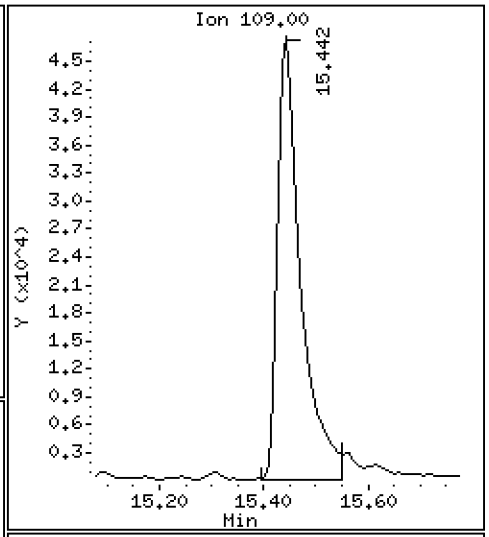
Concentration: 17.25 ug/mL

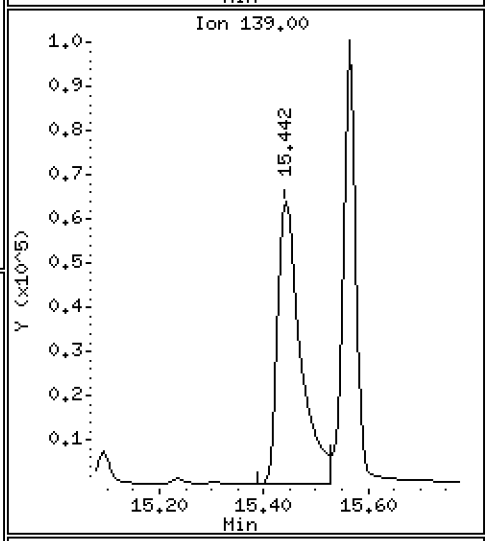


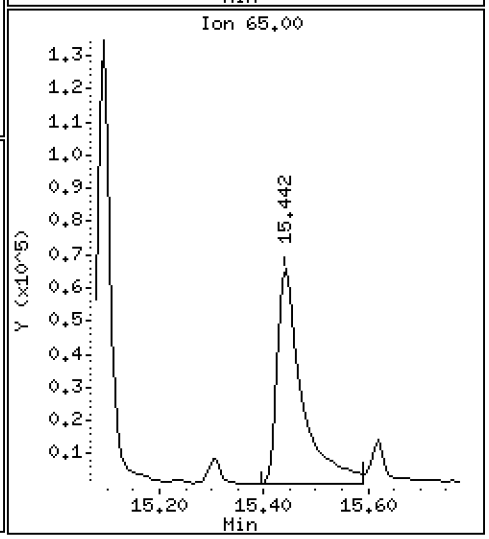












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

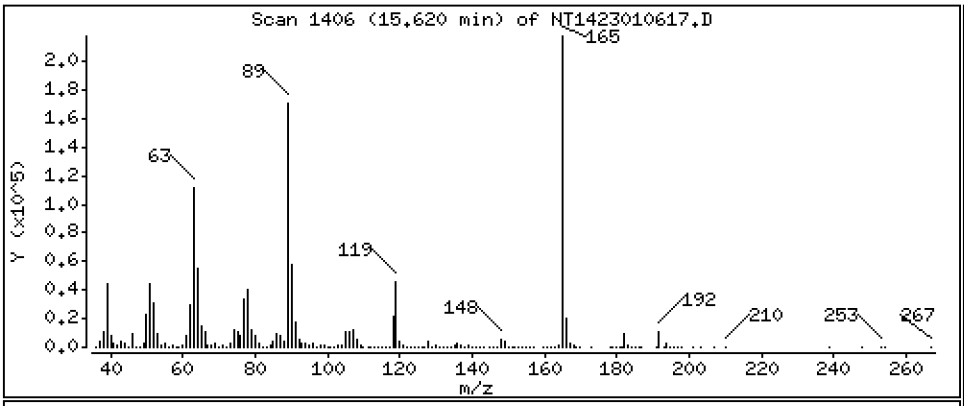
Operator: VTS

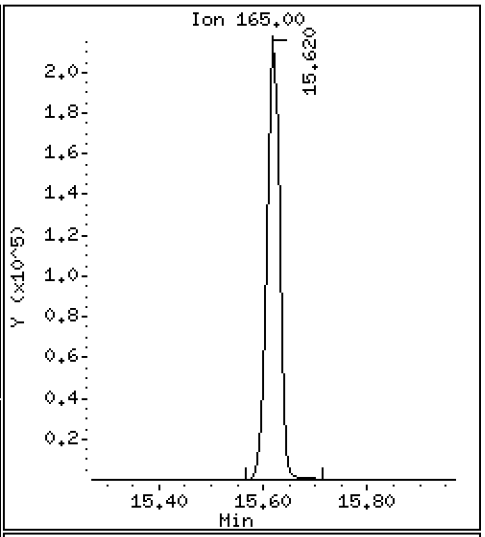
Column phase: ZB-5msi

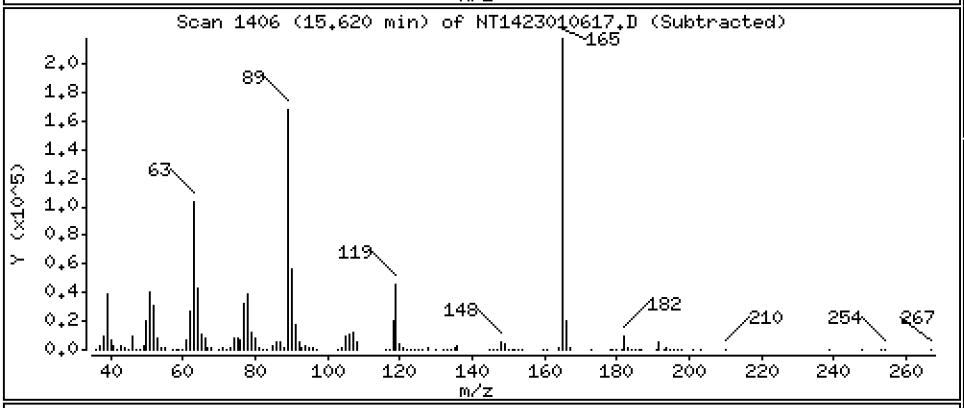
Column diameter: 0.25

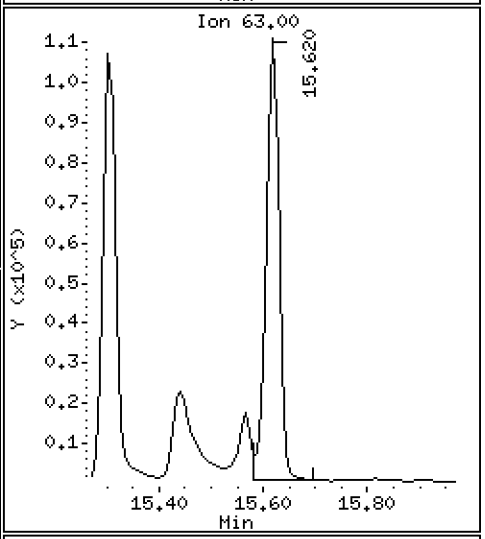
48 2,4-Dinitrotoluene

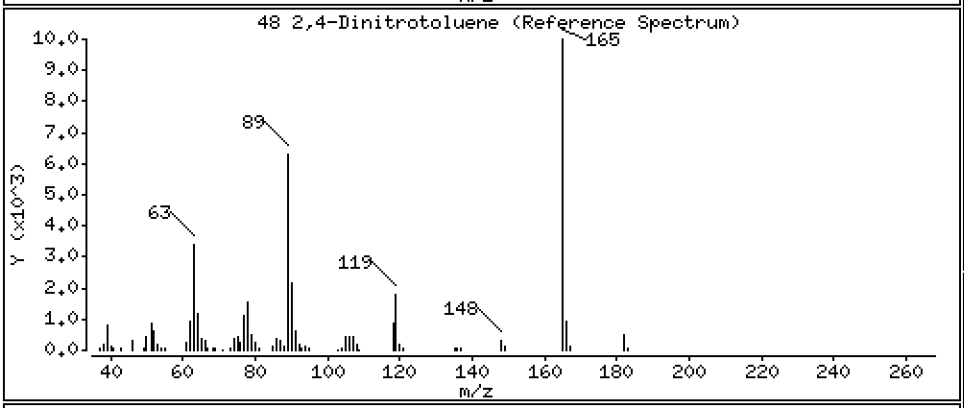
Concentration: 18.17 ug/mL

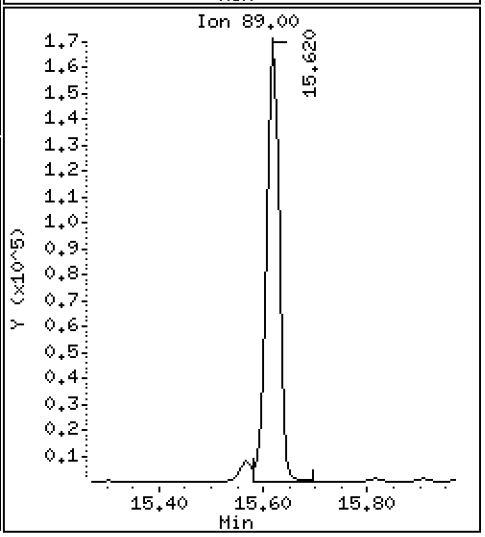


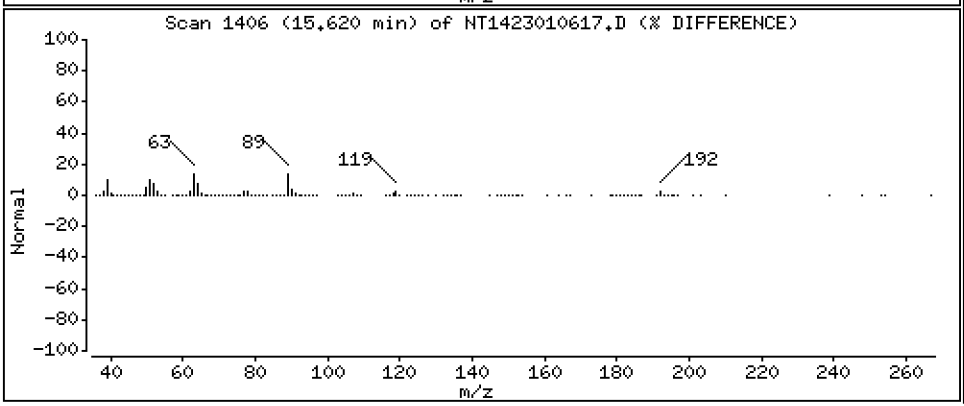












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

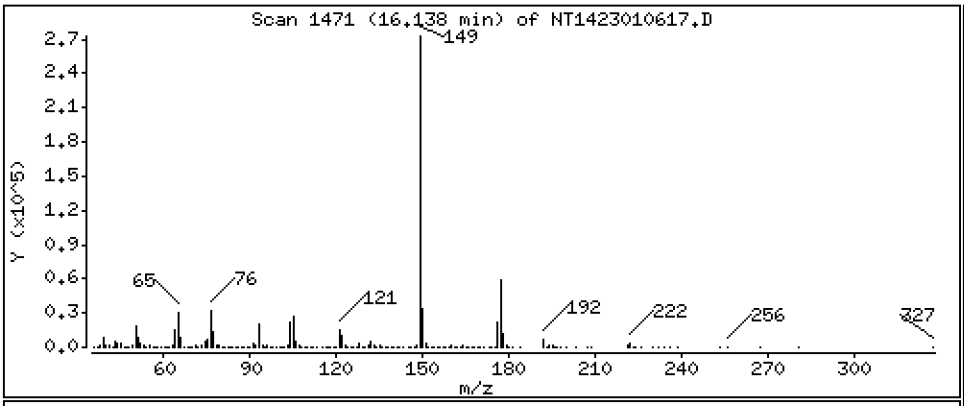
Operator: VTS

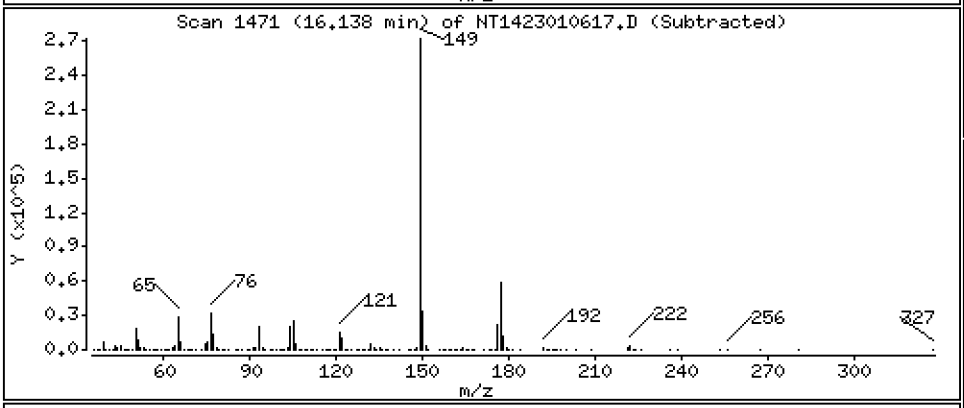
Column phase: ZB-5msi

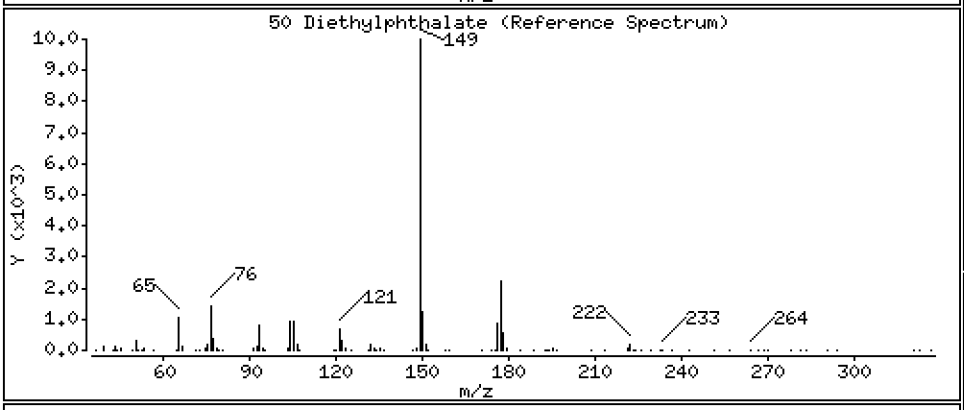
Column diameter: 0.25

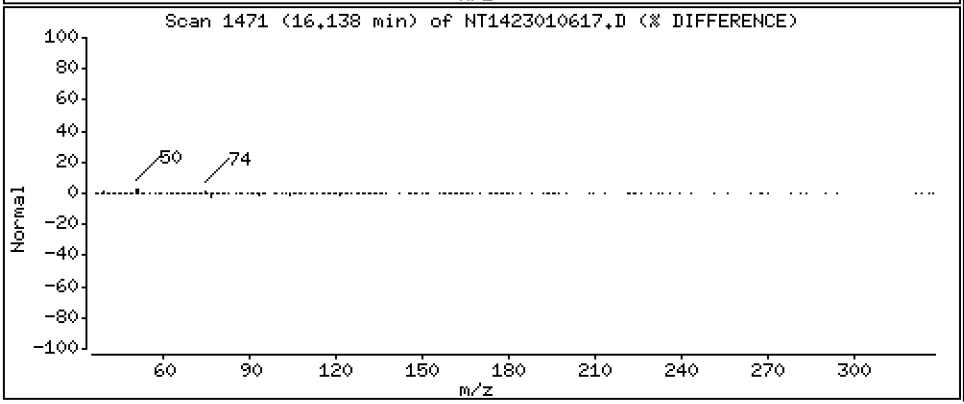
50 Diethylphthalate

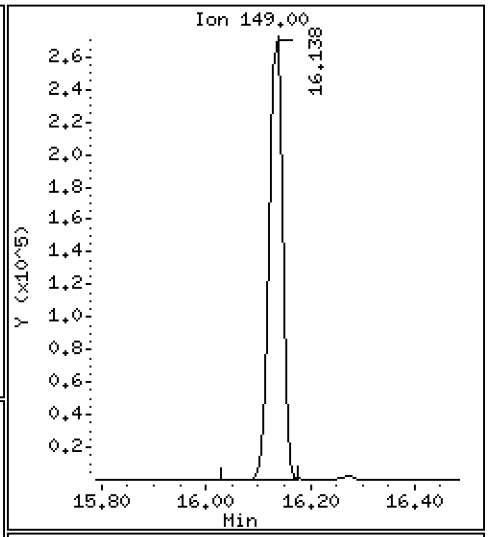
Concentration: 6.187 ug/mL

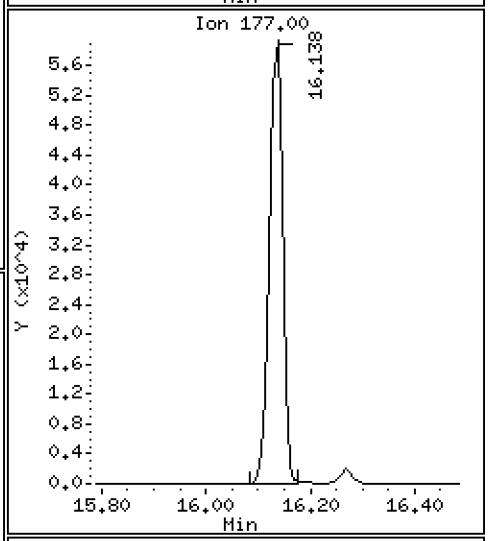


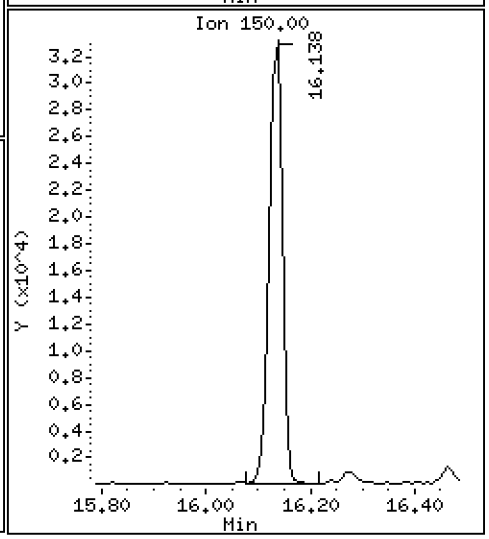












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

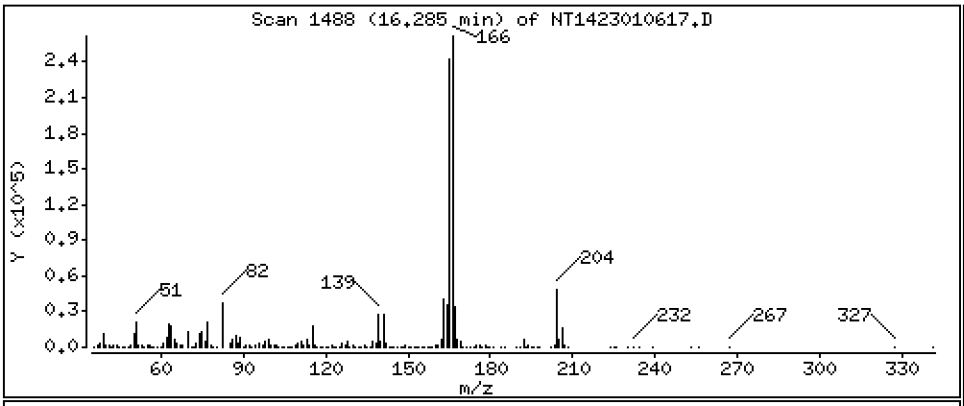
Operator: VTS

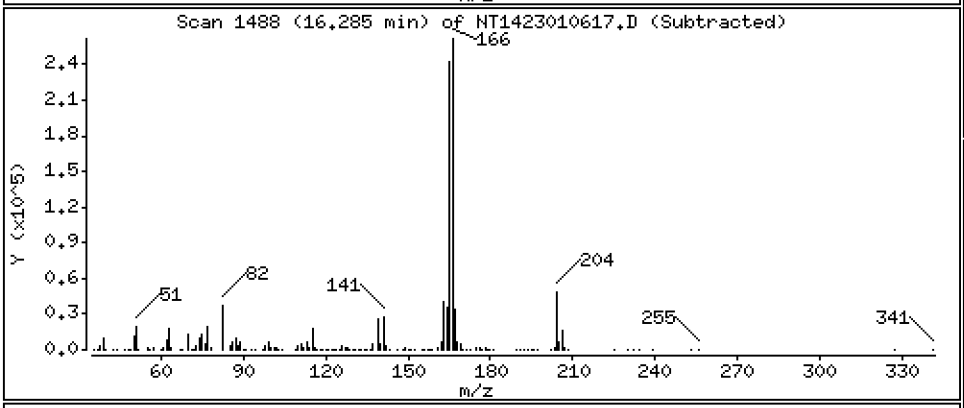
Column phase: ZB-5msi

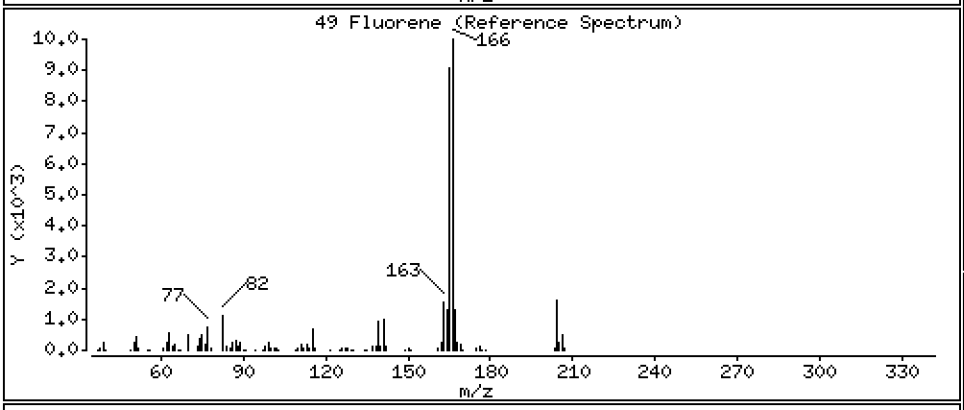
Column diameter: 0.25

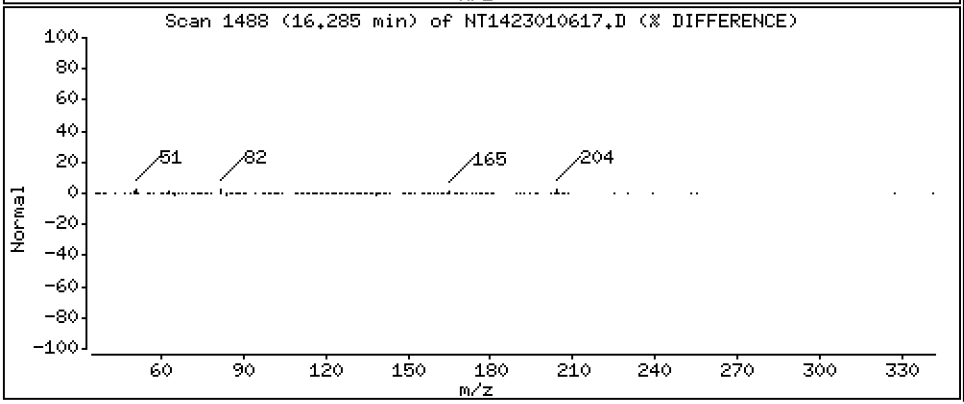
49 Fluorene

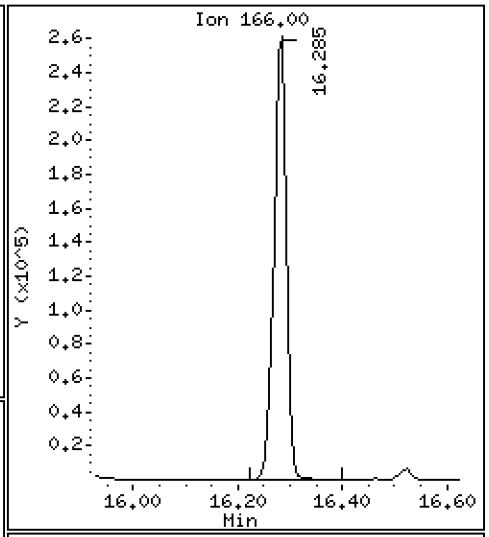
Concentration: 4.611 ug/mL

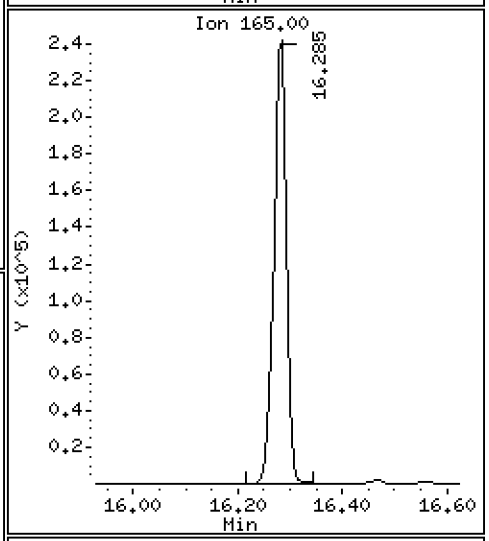


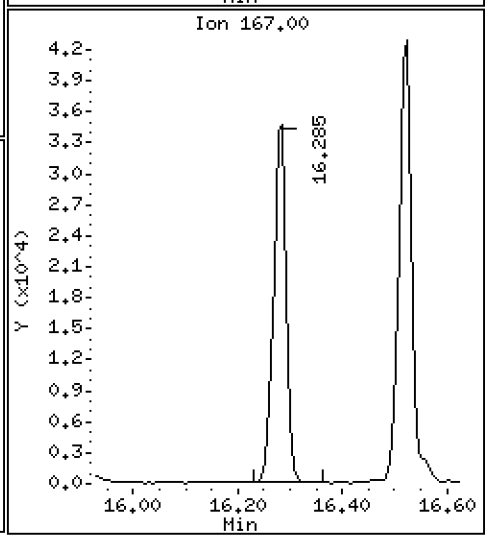












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

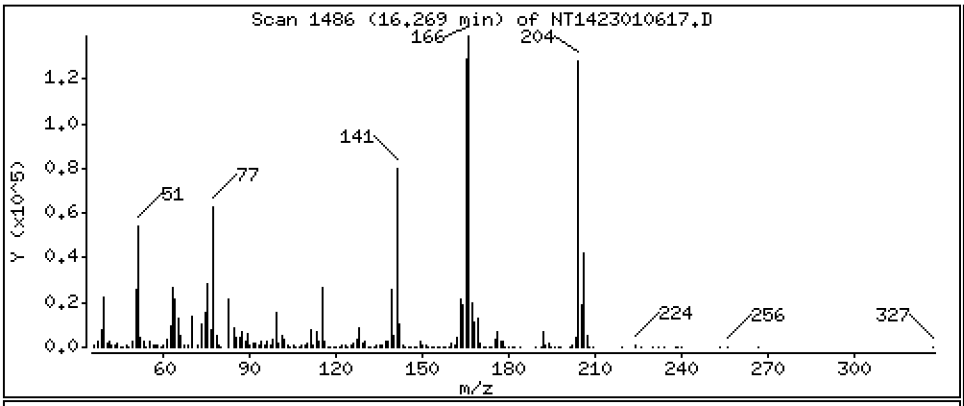
Operator: VTS

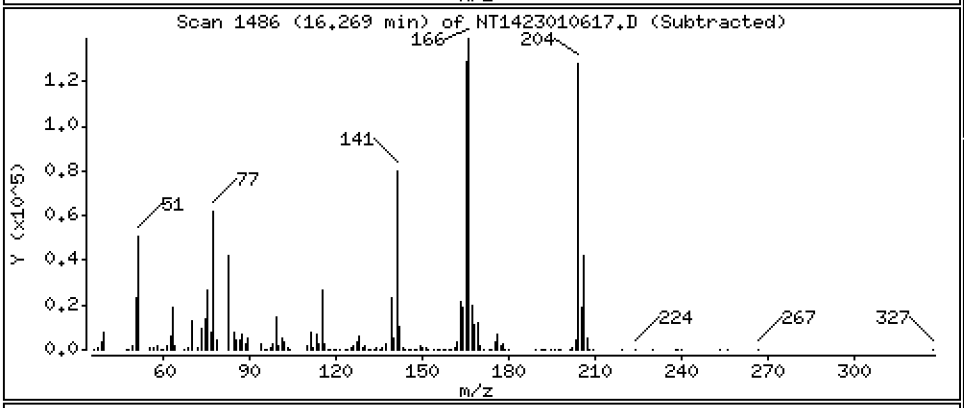
Column phase: ZB-5msi

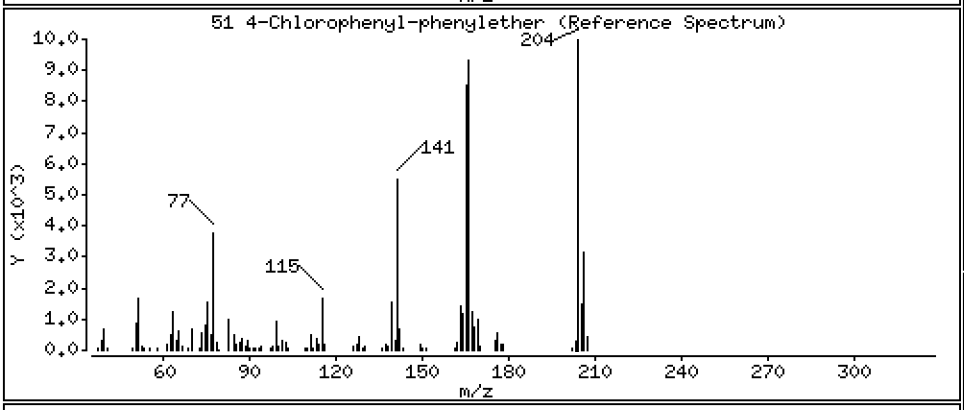
Column diameter: 0.25

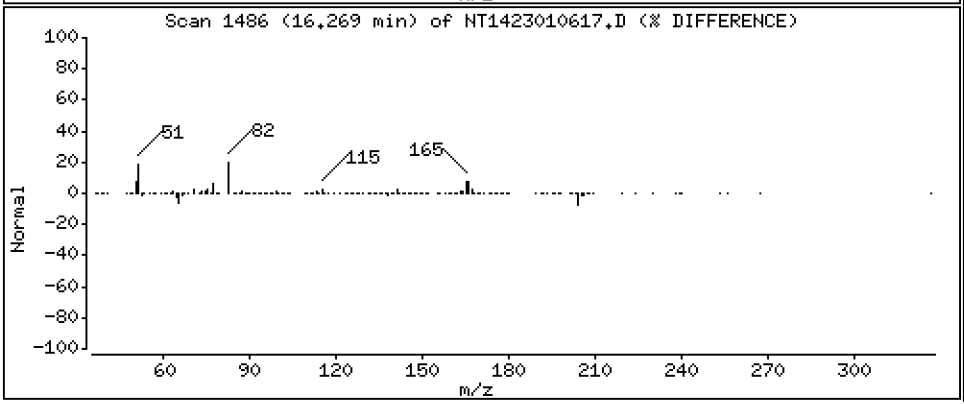
51 4-Chlorophenyl-phenylether

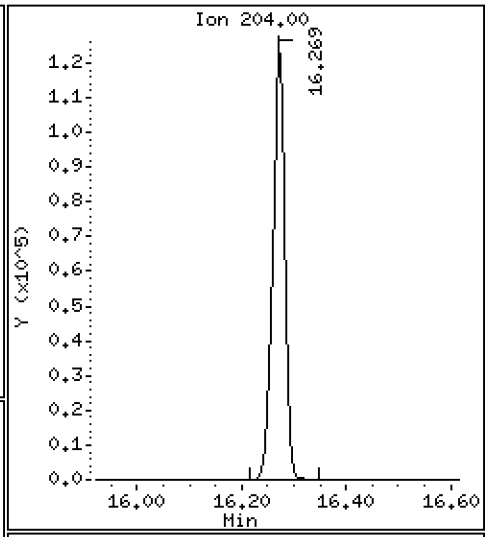
Concentration: 4.270 ug/mL

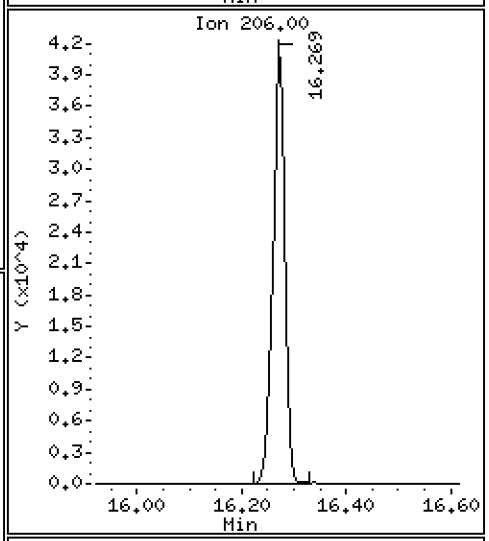


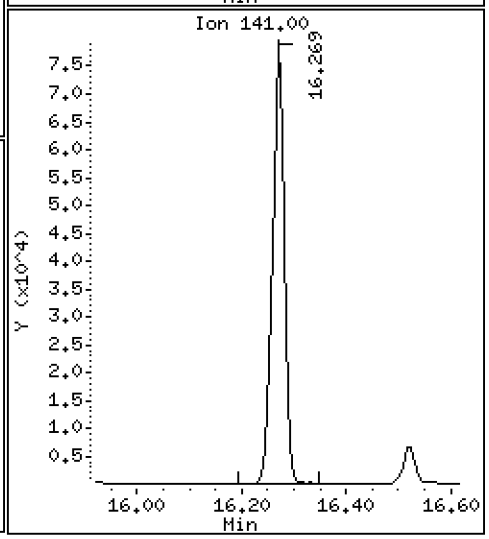












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

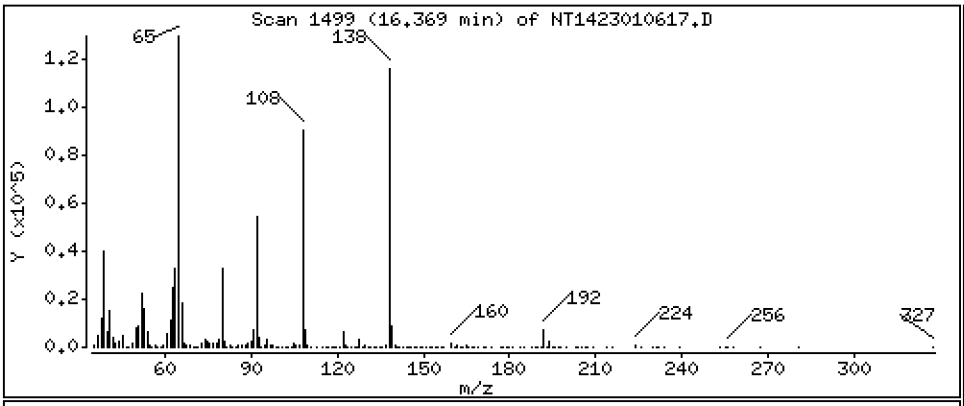
Operator: VTS

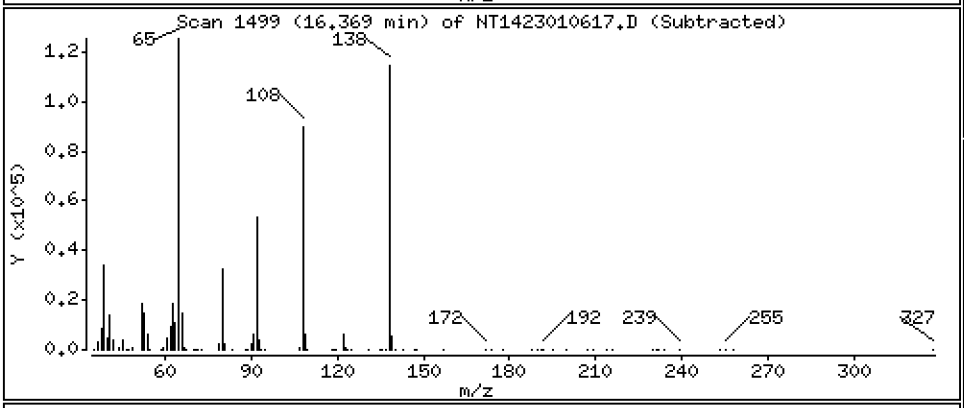
Column phase: ZB-5msi

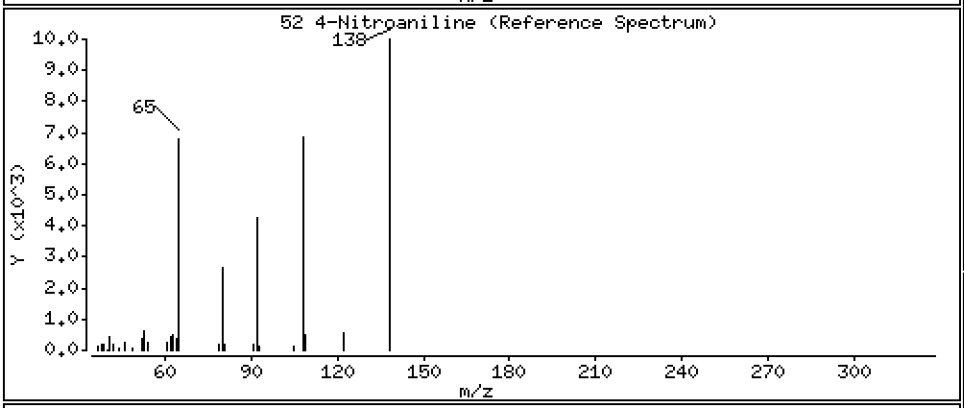
Column diameter: 0.25

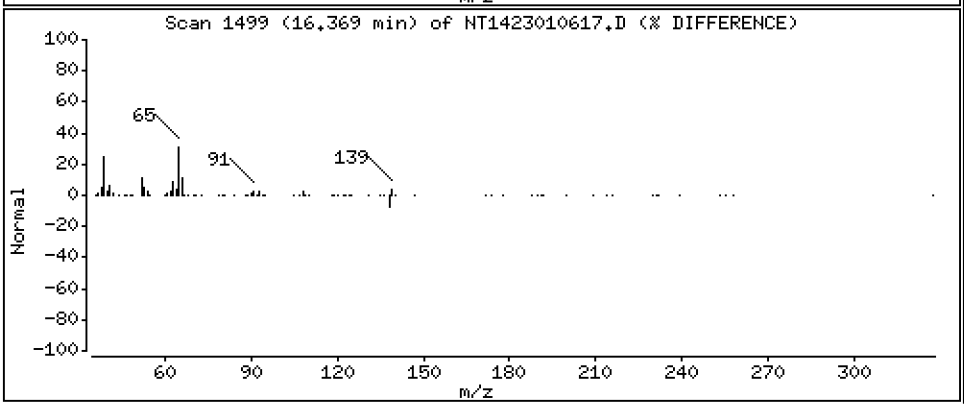
52 4-Nitroaniline

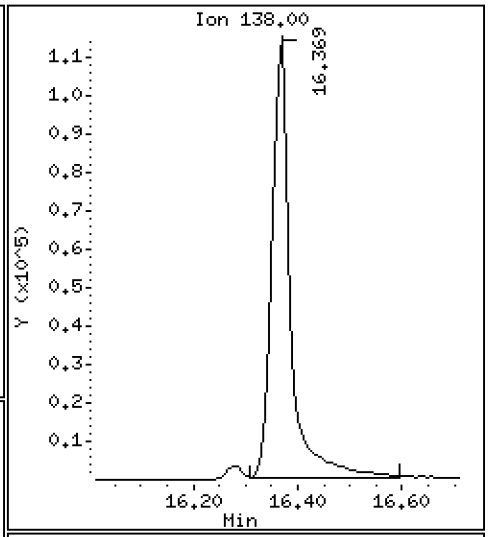
Concentration: 13.25 ug/mL

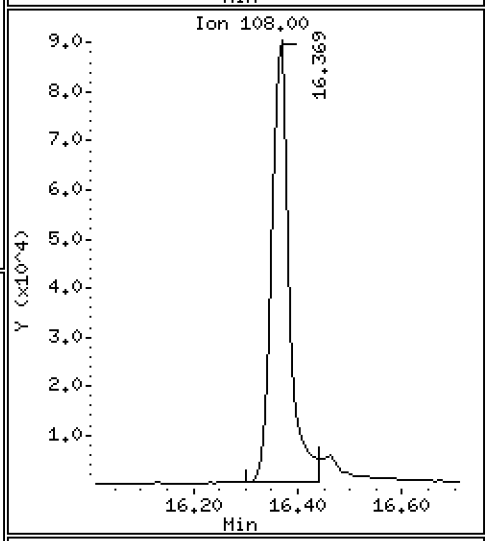


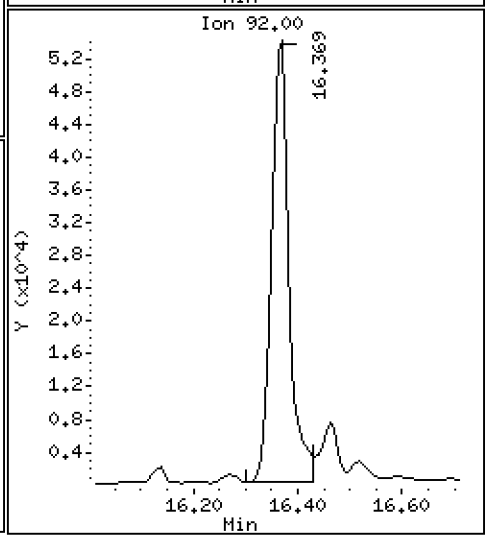












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

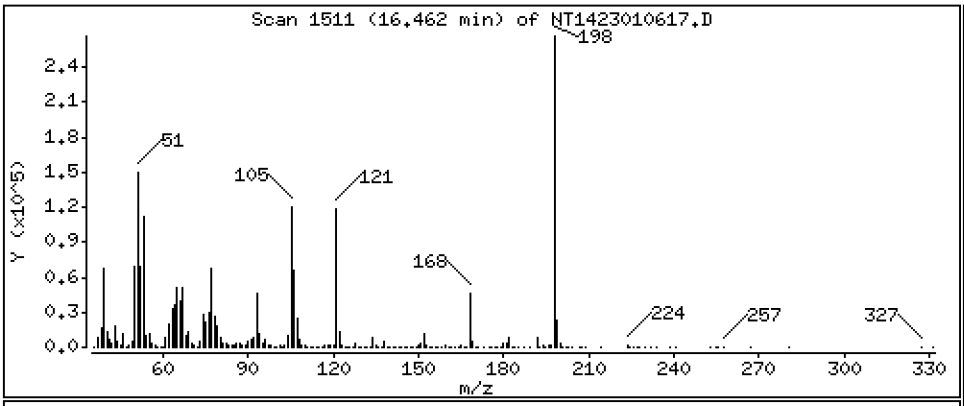
Operator: VTS

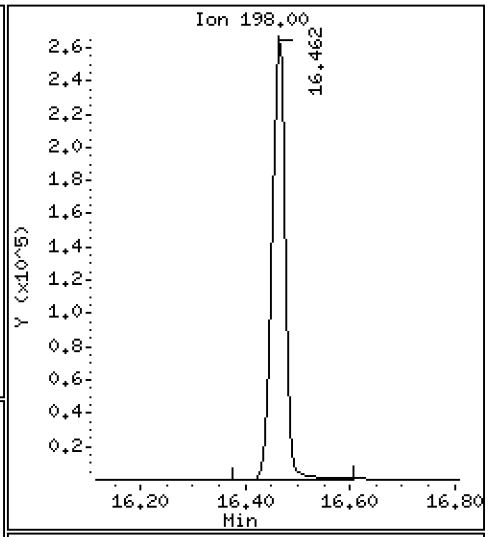
Column phase: ZB-5msi

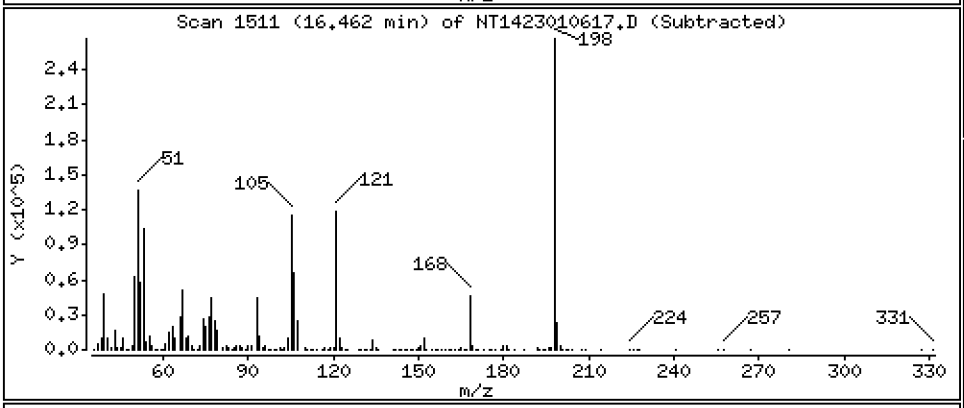
Column diameter: 0.25

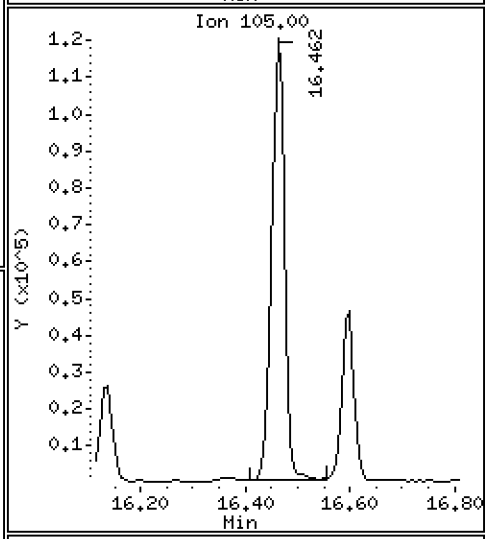
53 4,6-Dinitro-2-methylphenol

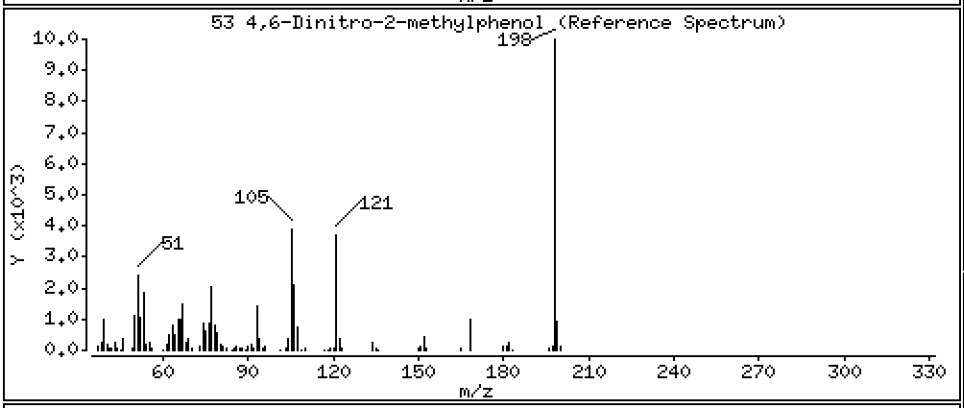
Concentration: 26.85 ug/mL

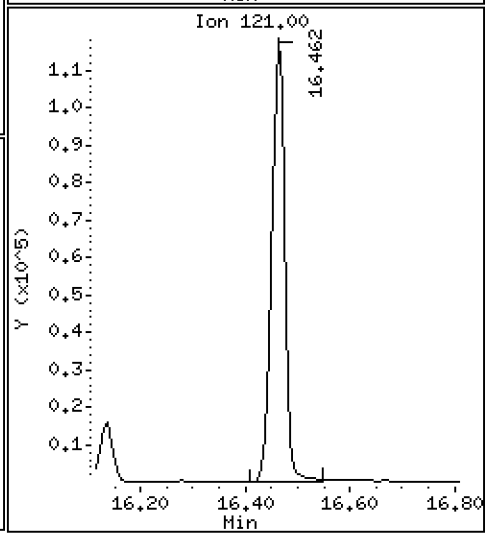


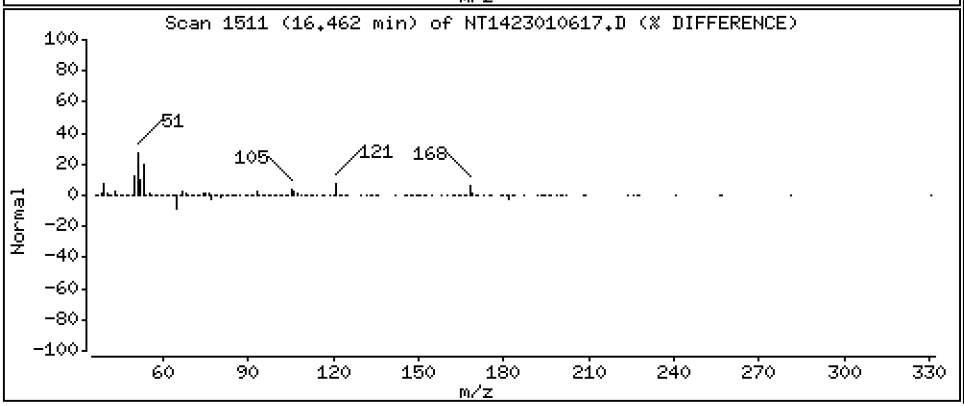












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

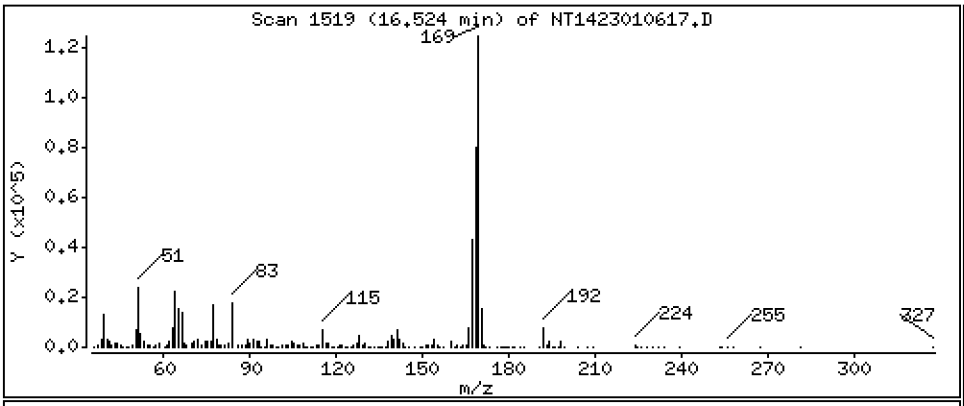
Operator: VTS

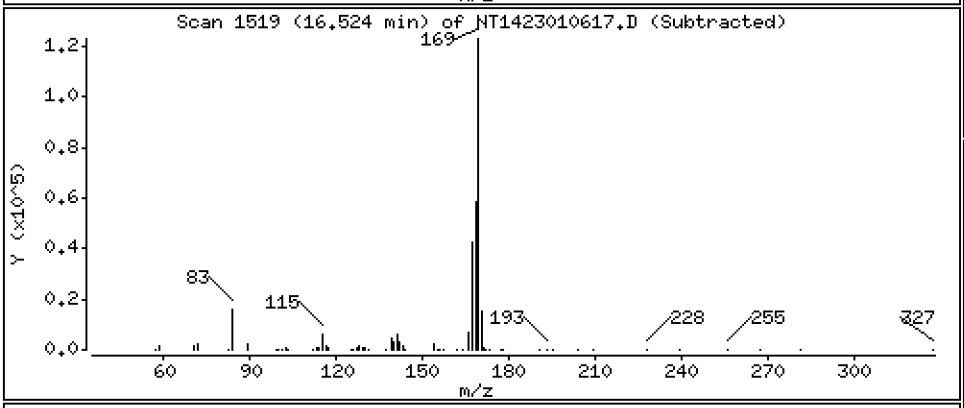
Column phase: ZB-5msi

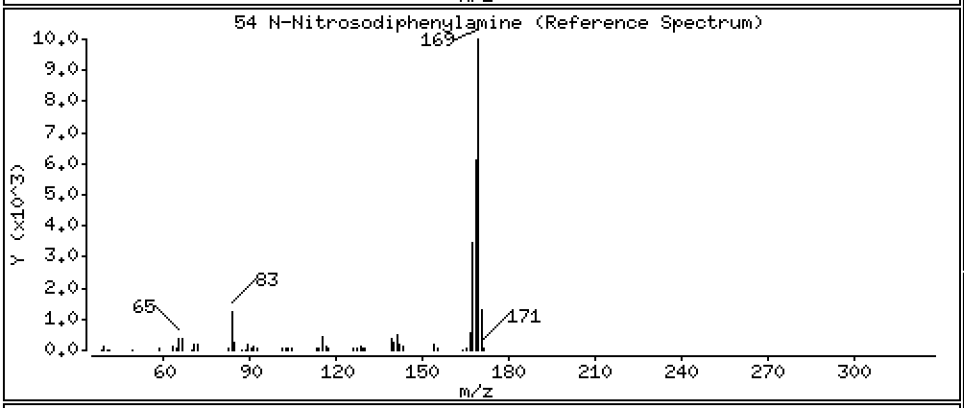
Column diameter: 0.25

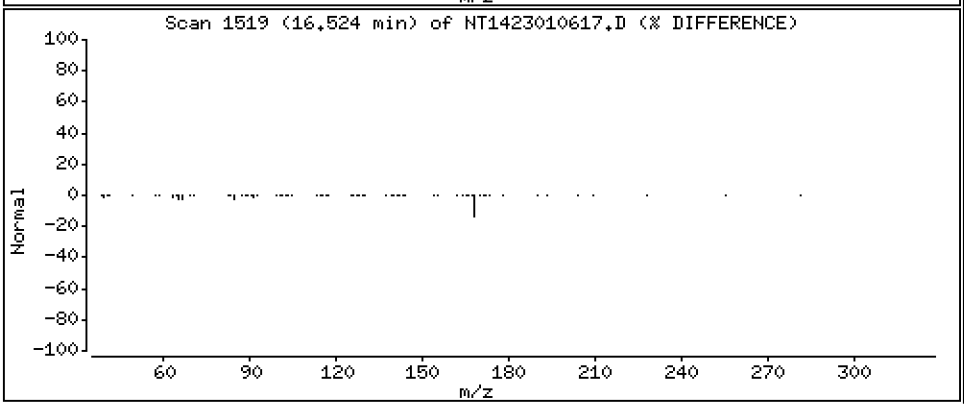
54 N-Nitrosodiphenylamine

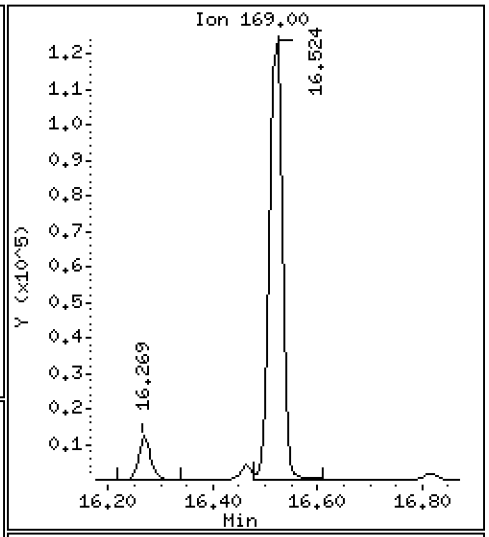
Concentration: 3.167 ug/mL

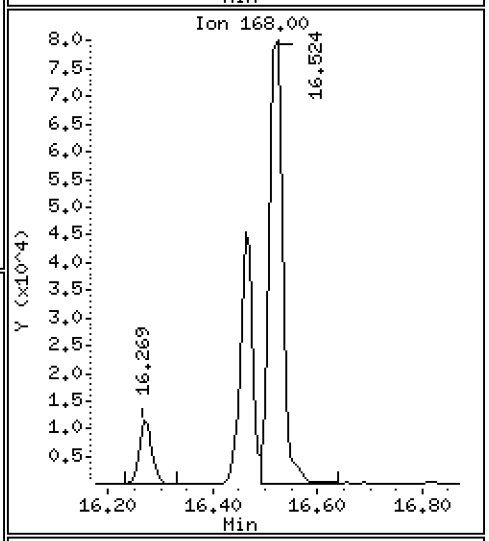


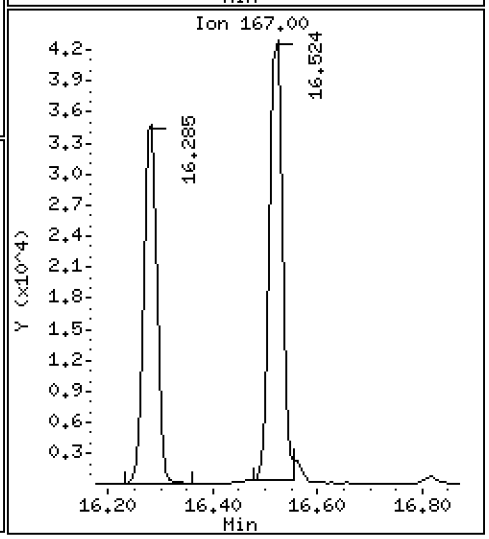












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

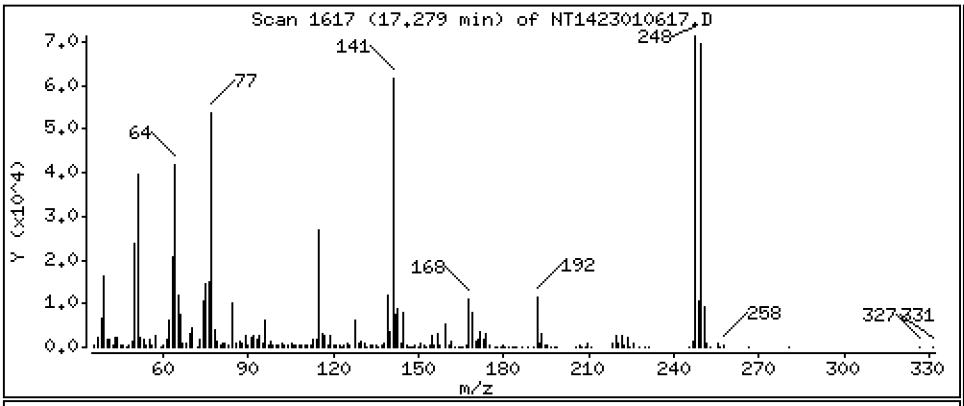
Operator: VTS

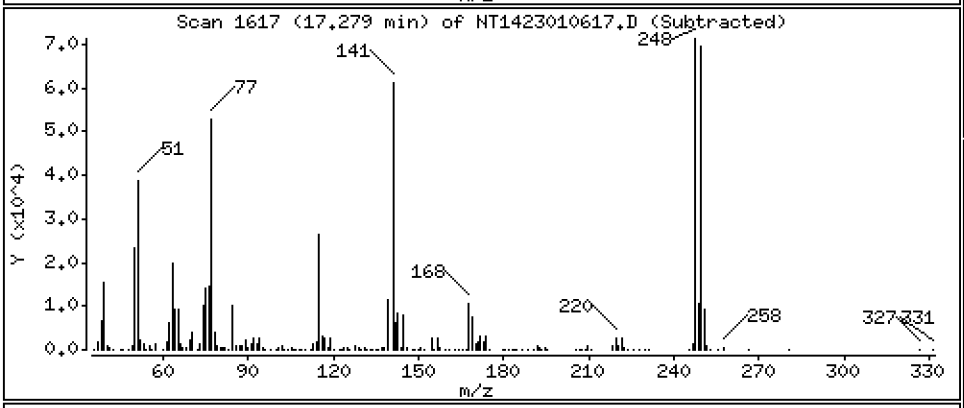
Column phase: ZB-5msi

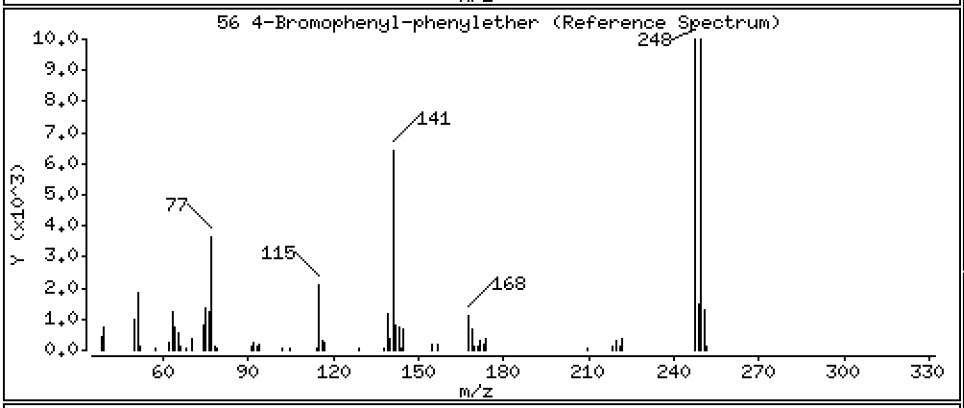
Column diameter: 0.25

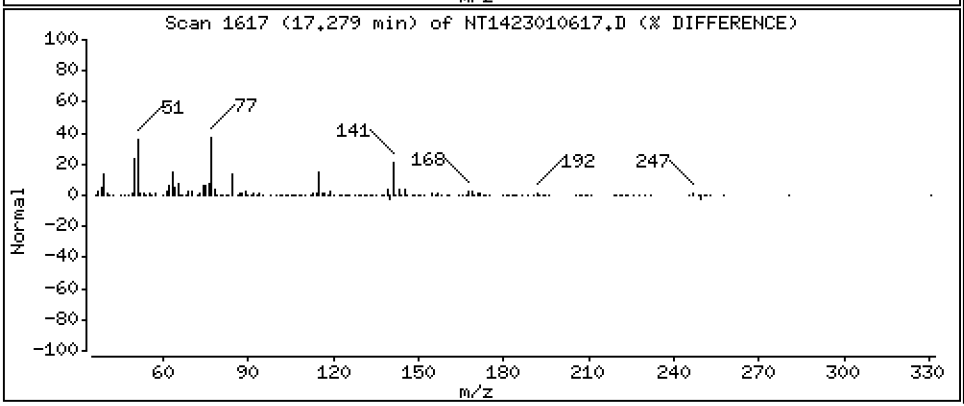
56 4-Bromophenyl-phenylether

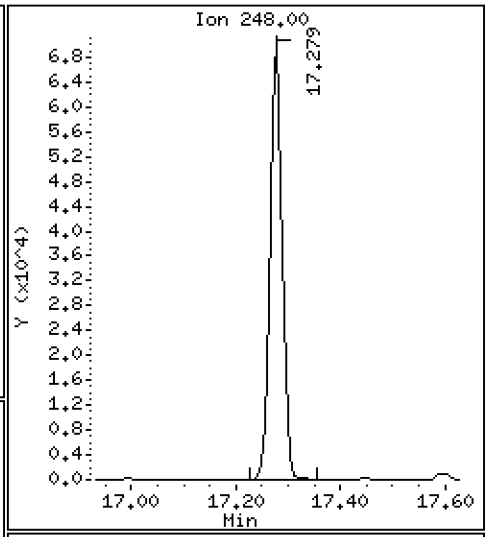
Concentration: 4.587 ug/mL

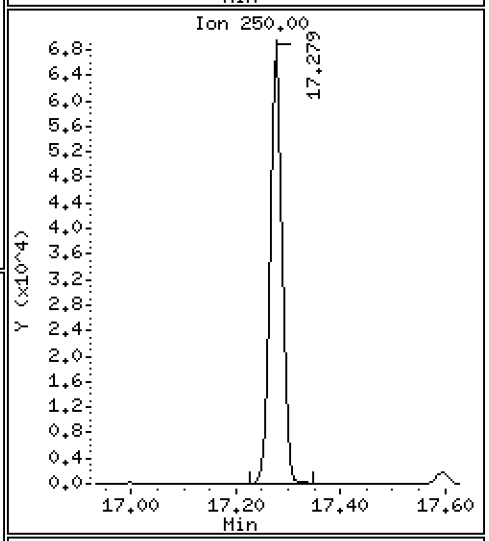


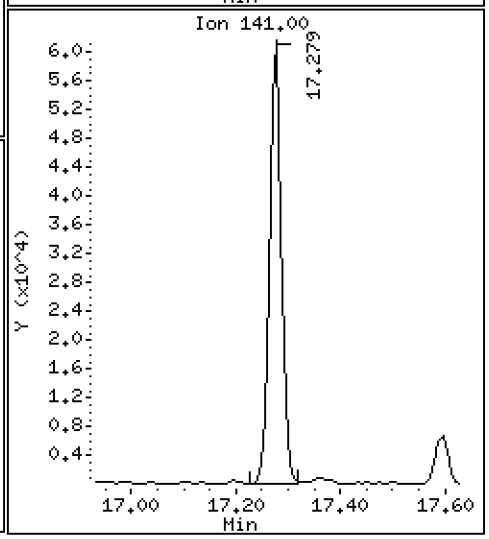












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

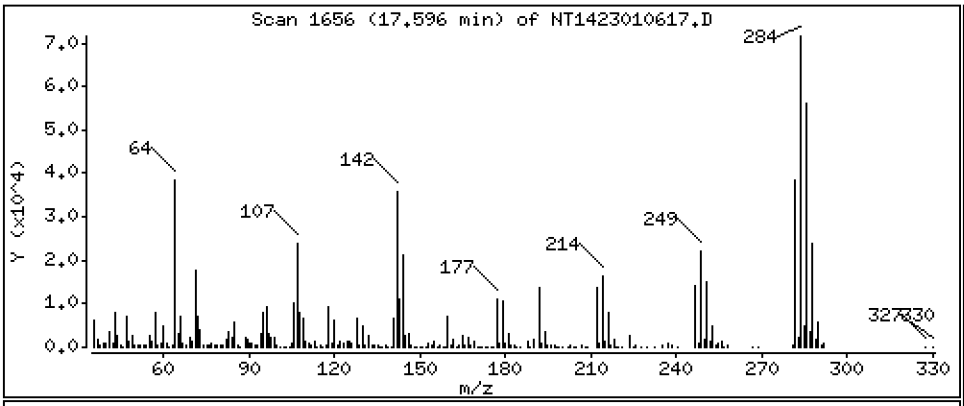
Operator: VTS

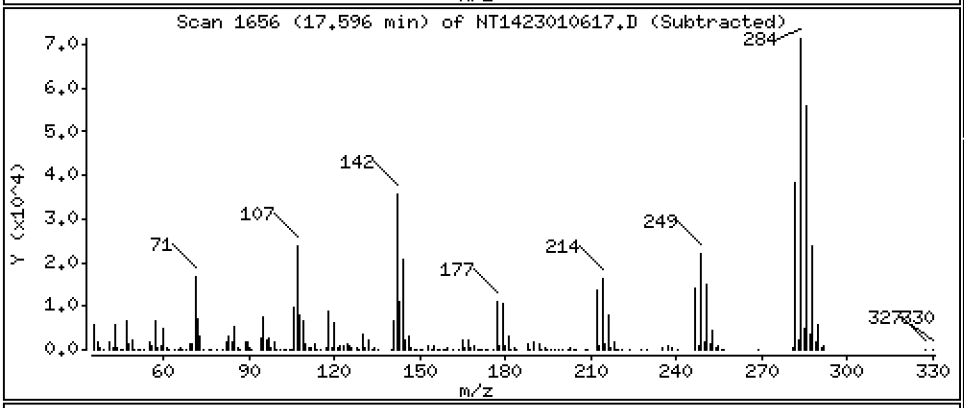
Column phase: ZB-5msi

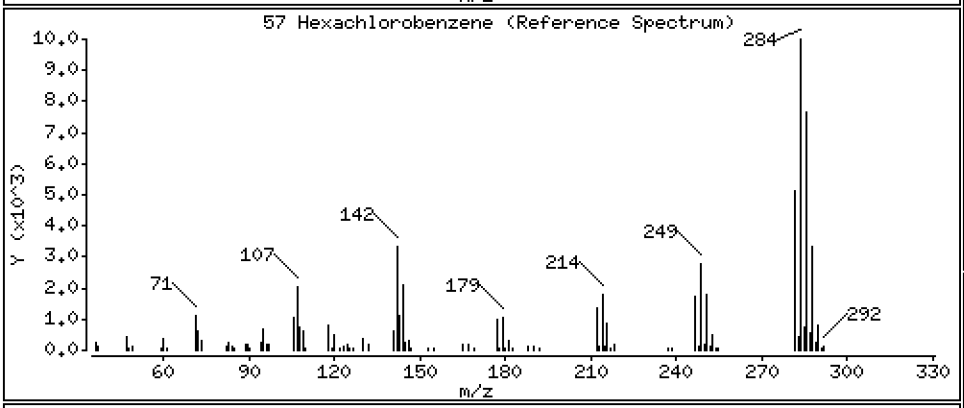
Column diameter: 0.25

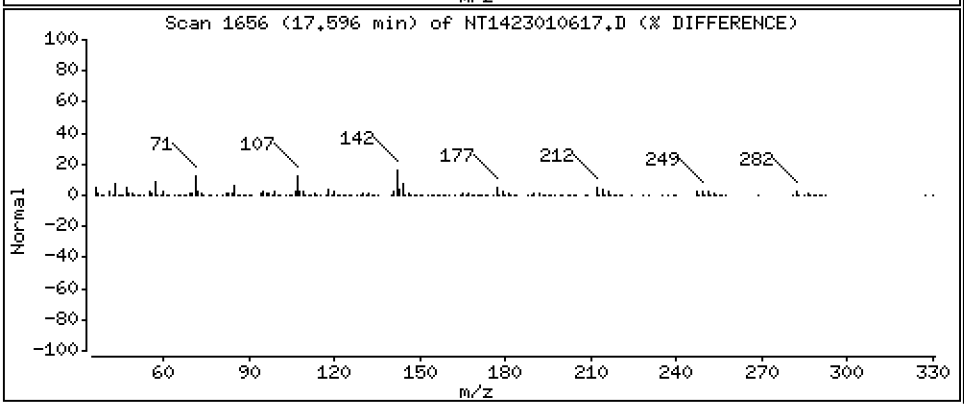
57 Hexachlorobenzene

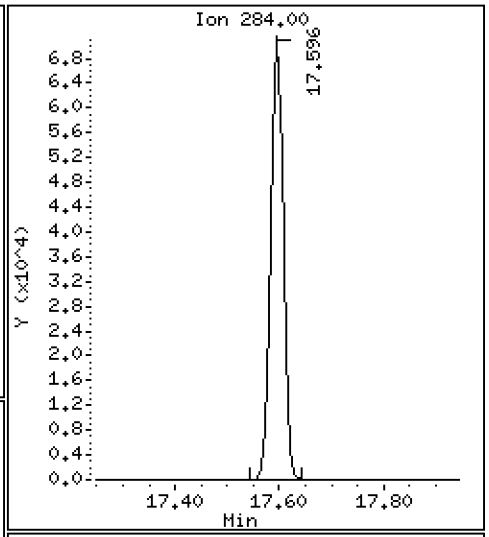
Concentration: 4.257 ug/mL

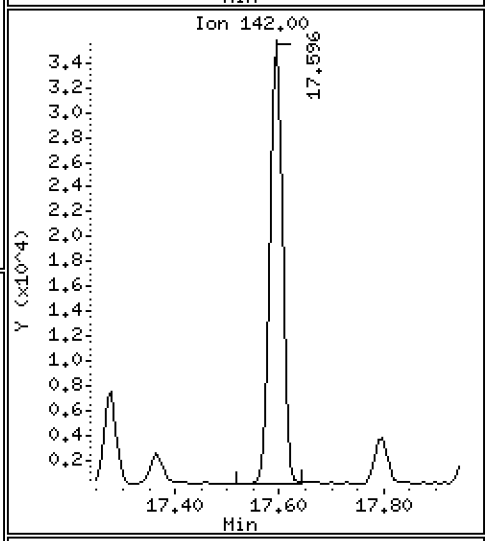


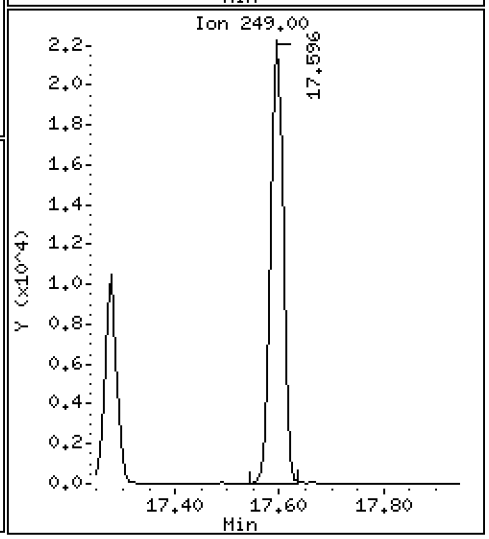












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

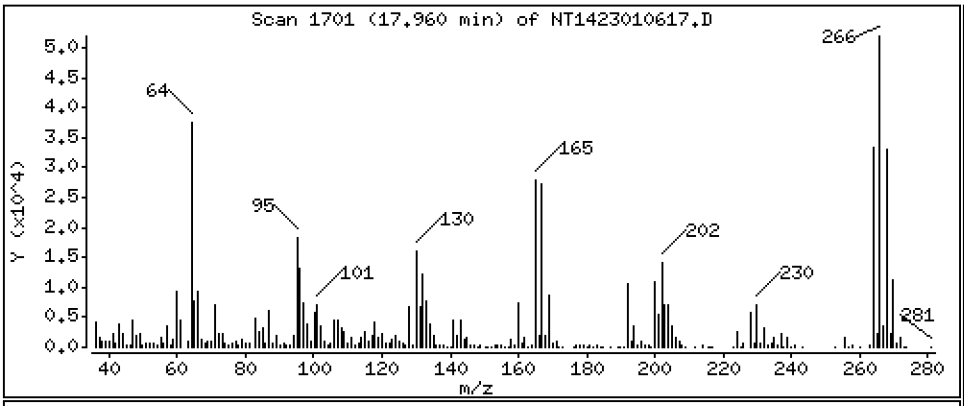
Operator: VTS

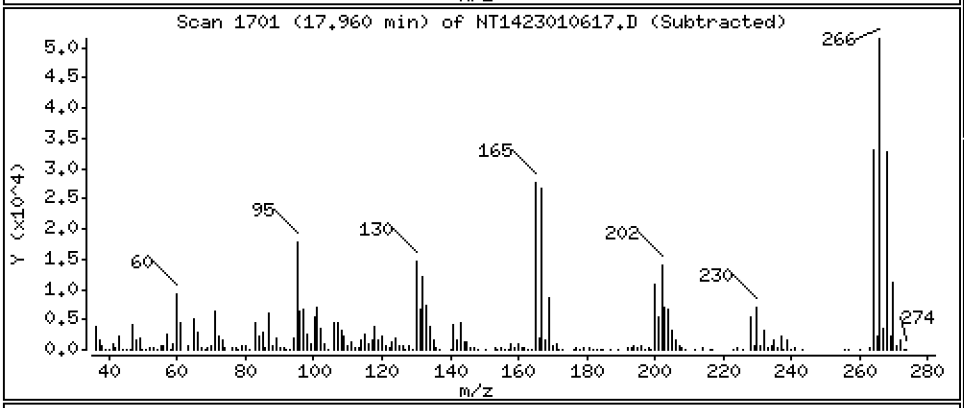
Column phase: ZB-5msi

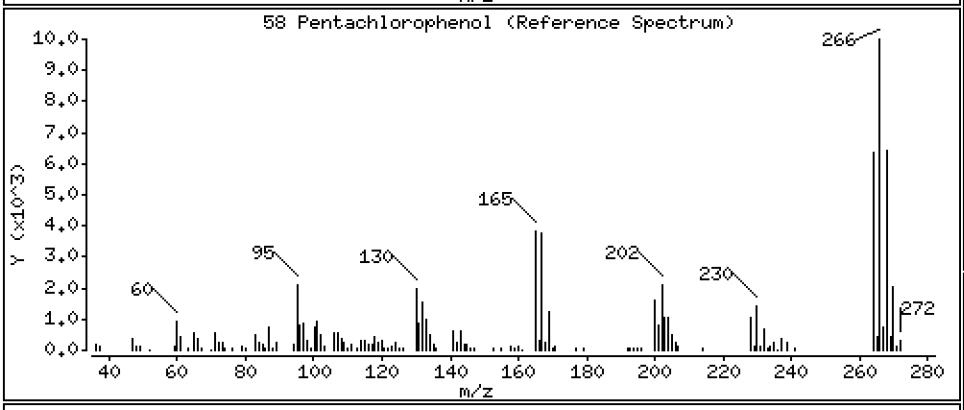
Column diameter: 0.25

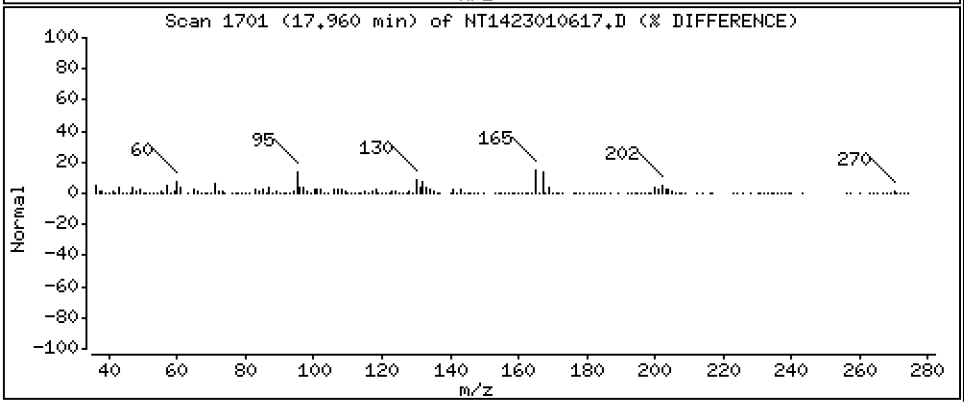
58 Pentachlorophenol

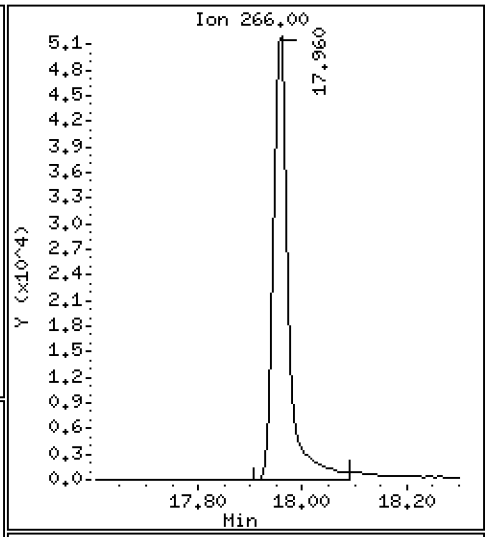
Concentration: 8.509 ug/mL

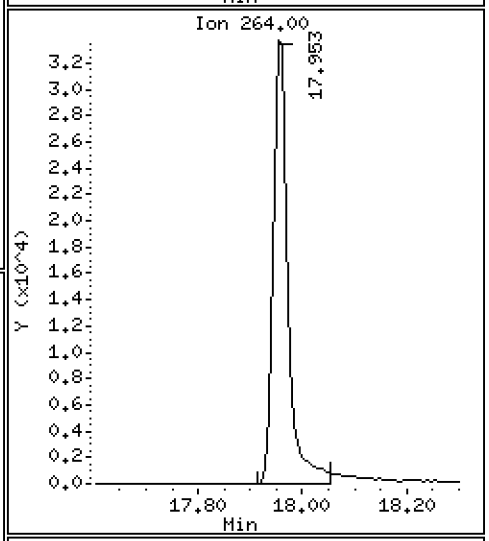


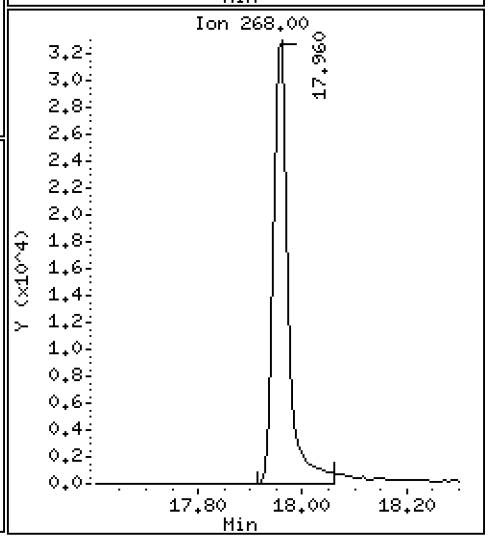












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

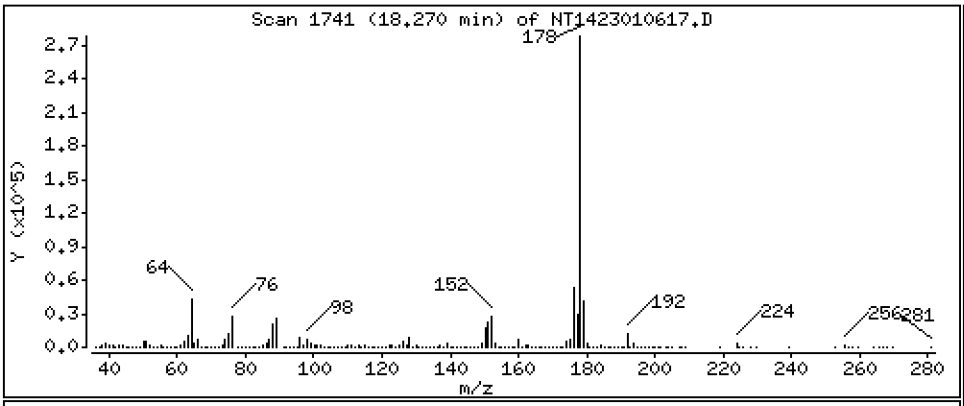
Operator: VTS

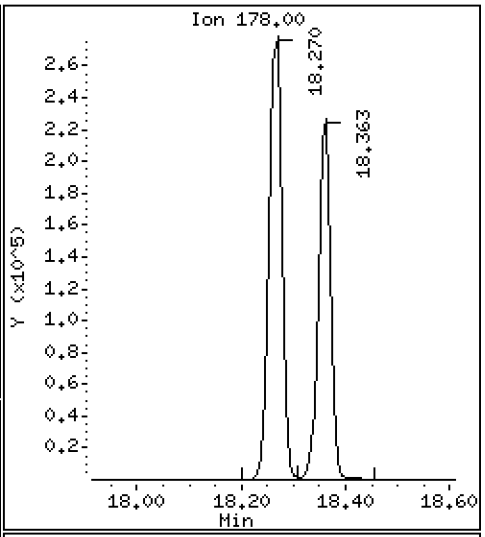
Column phase: ZB-5msi

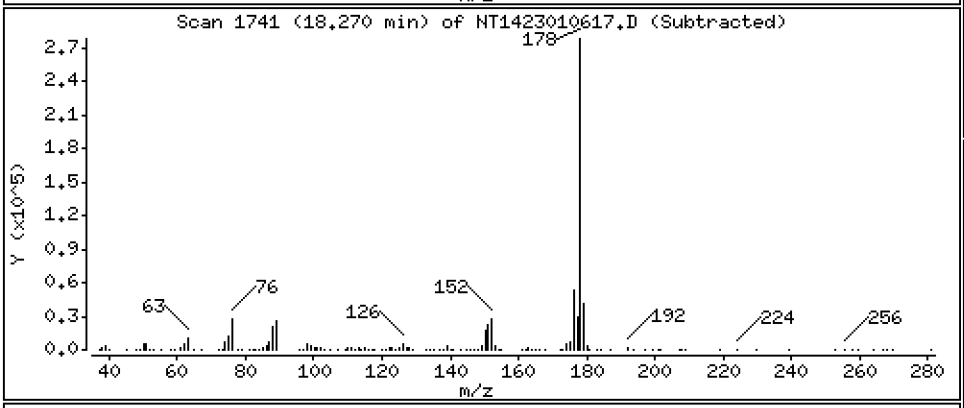
Column diameter: 0.25

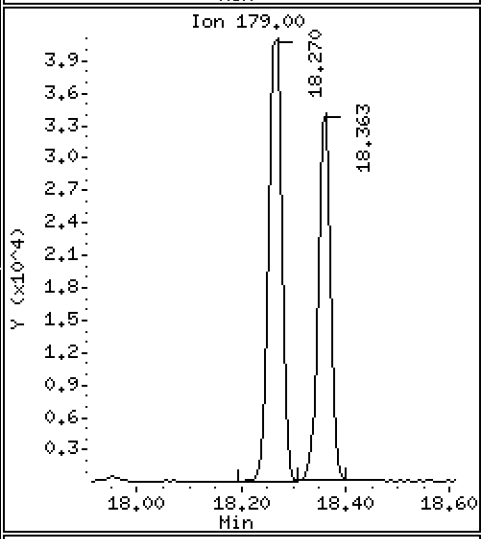
60 Phenanthrene

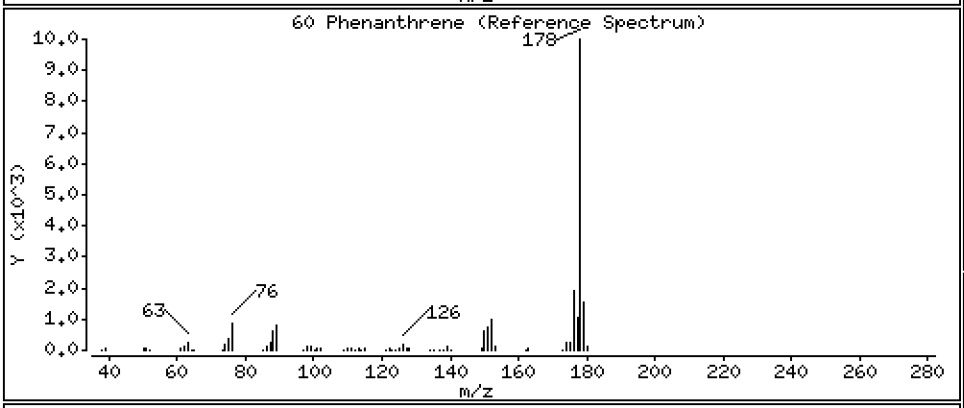
Concentration: 4.697 ug/mL

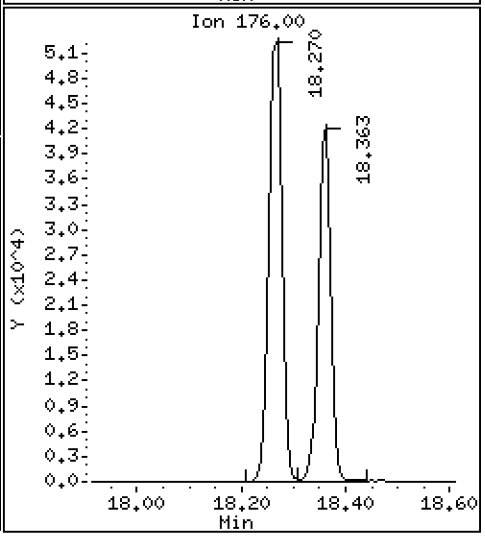


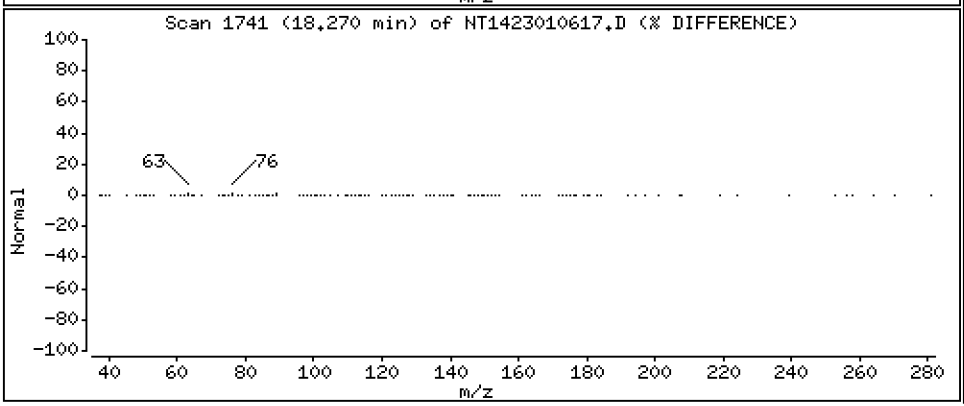












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

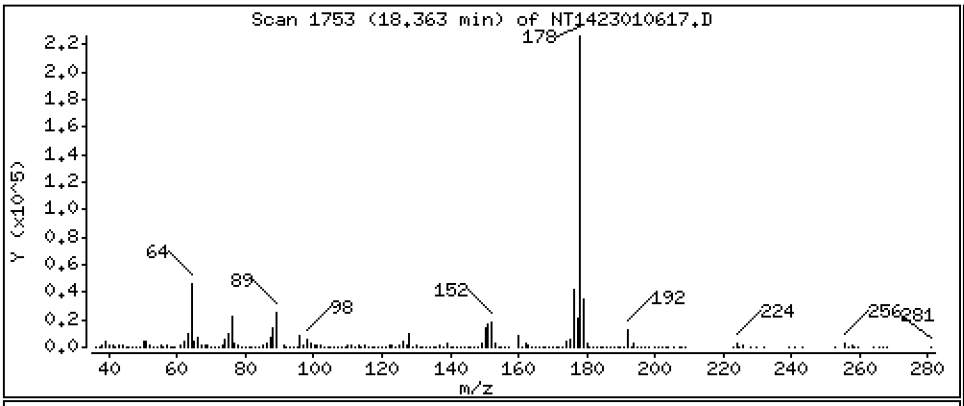
Operator: VTS

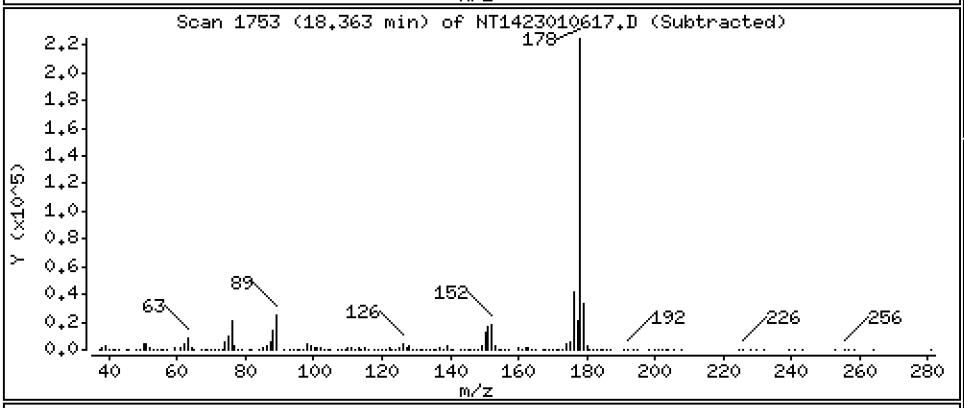
Column phase: ZB-5msi

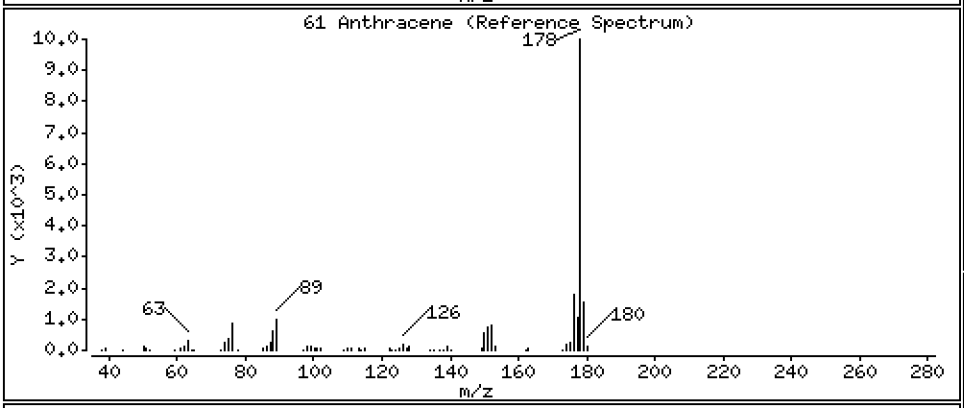
Column diameter: 0.25

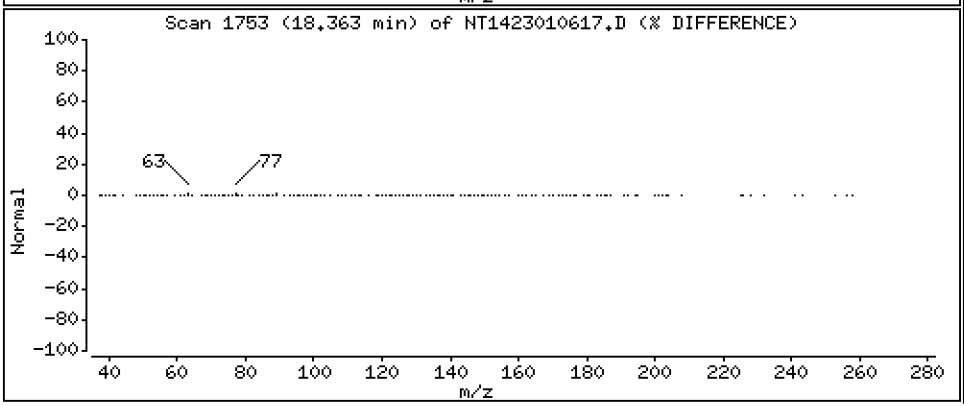
61 Anthracene

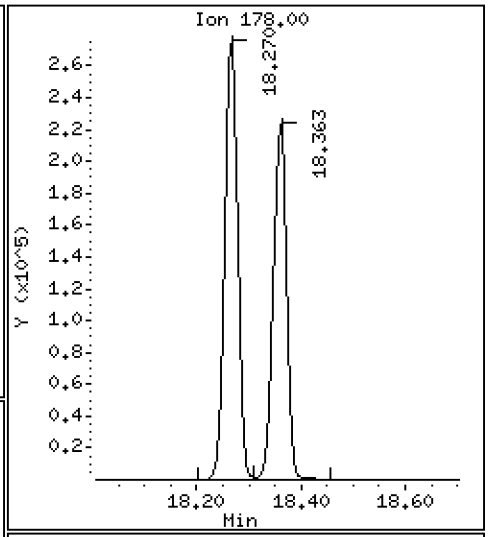
Concentration: 4.129 ug/mL

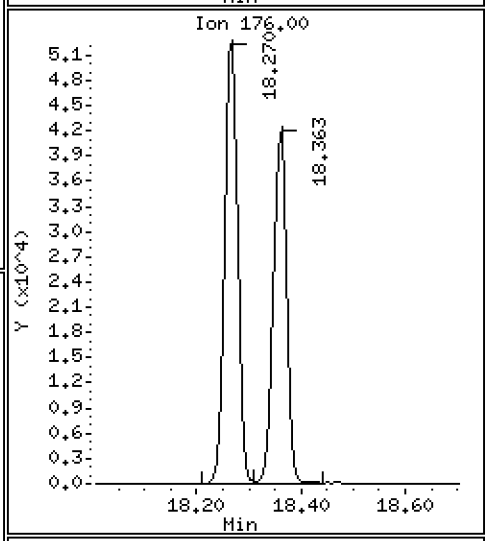


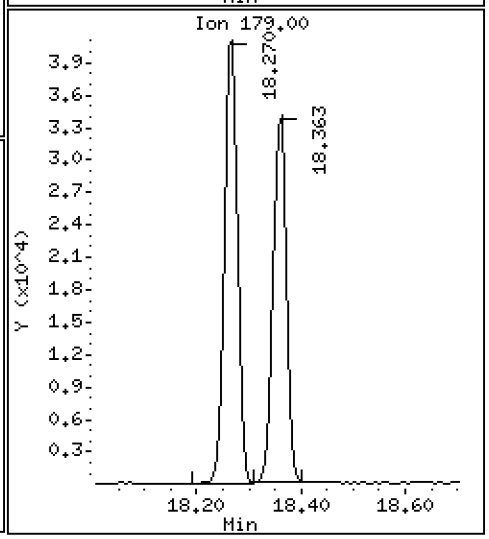












Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

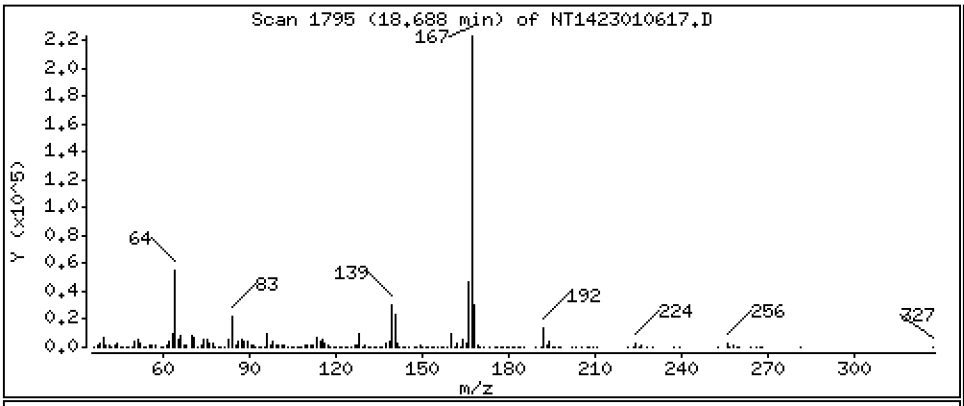
Operator: VTS

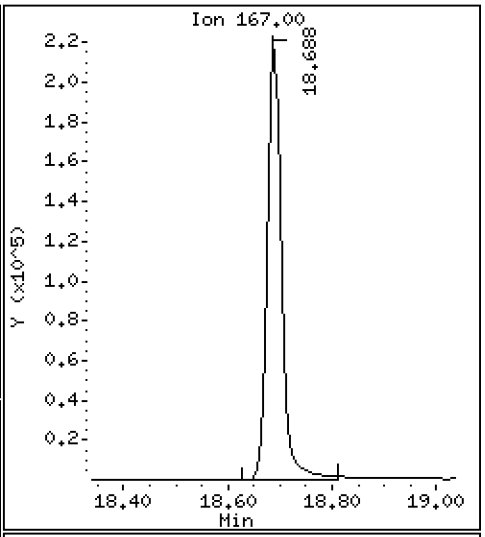
Column phase: ZB-5msi

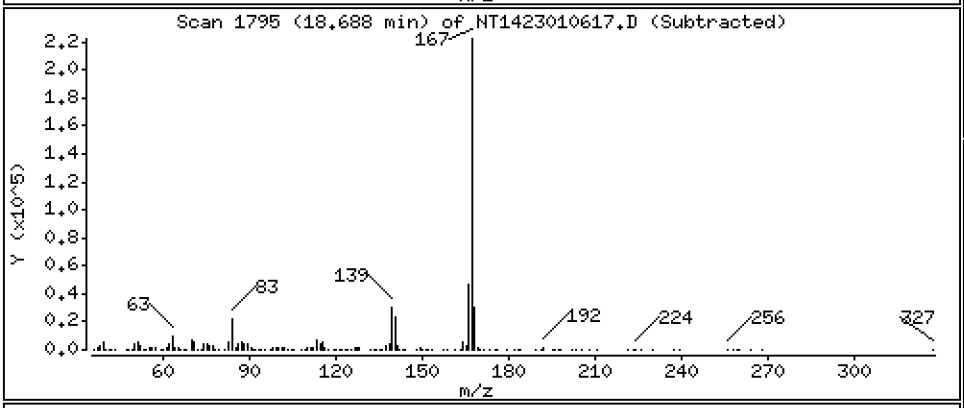
Column diameter: 0.25

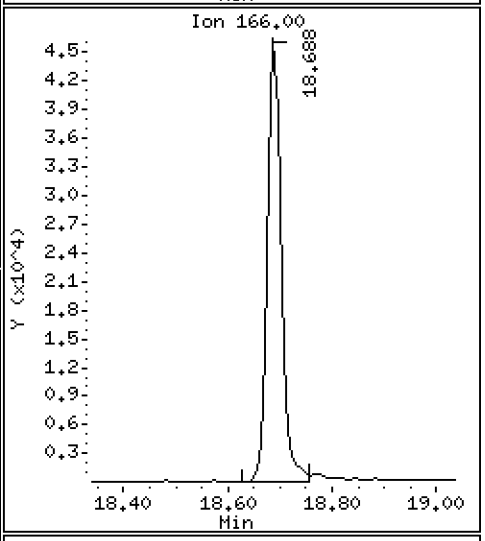
62 Carbazole

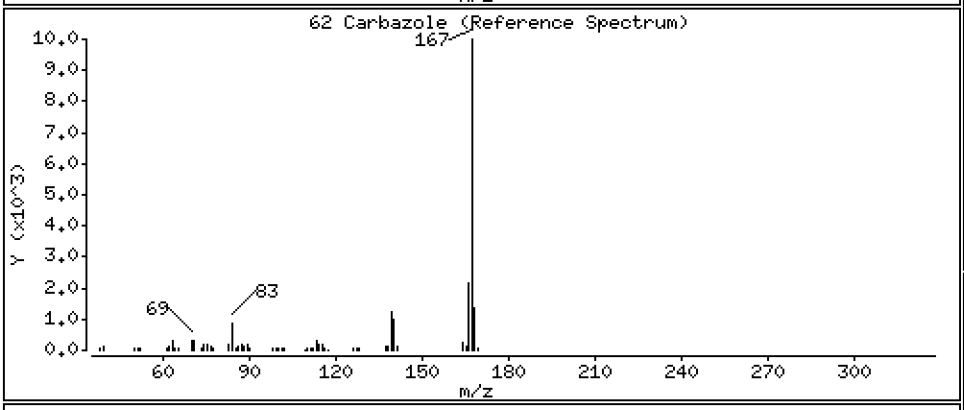
Concentration: 4.444 ug/mL

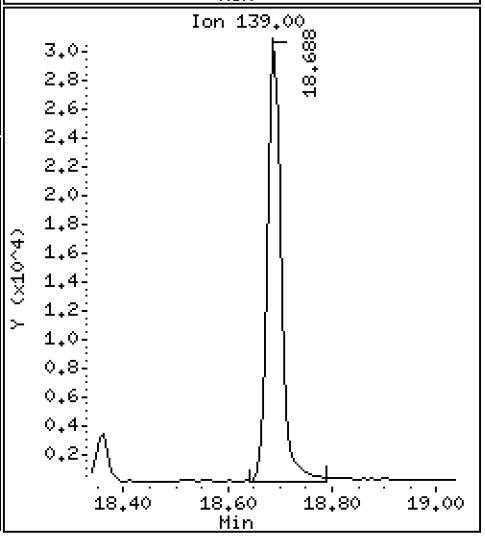


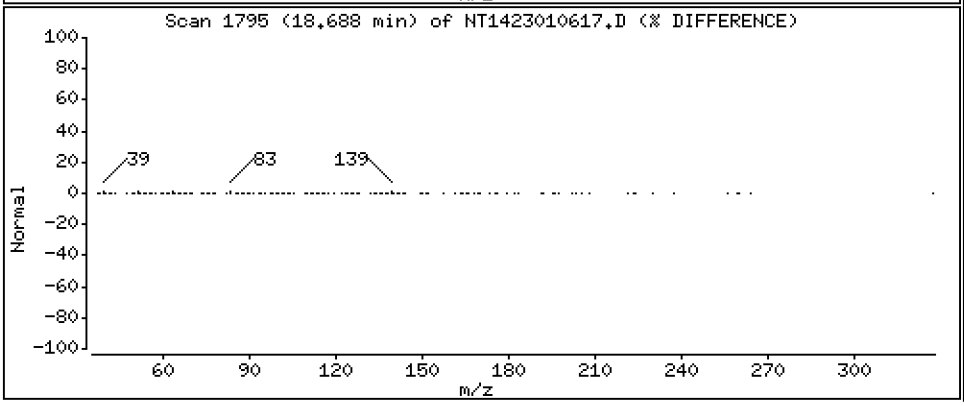












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

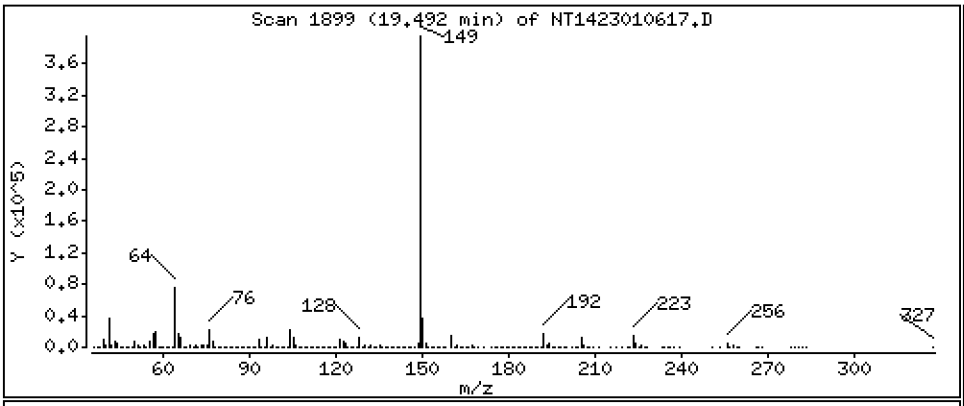
Operator: VTS

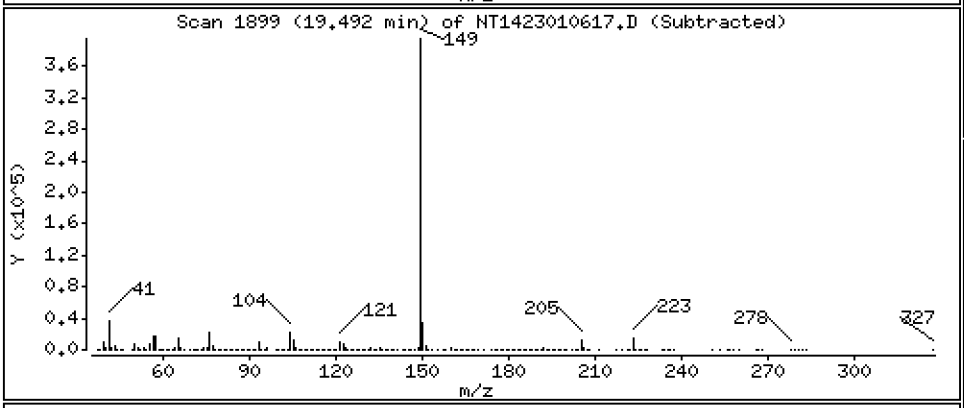
Column phase: ZB-5msi

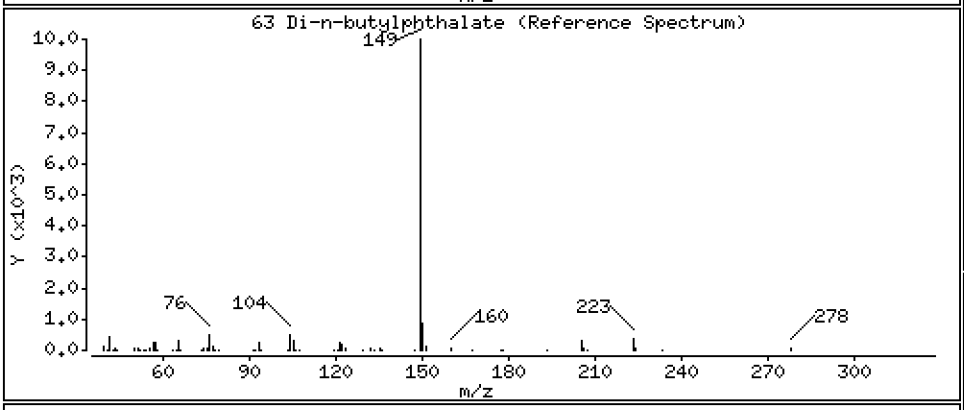
Column diameter: 0.25

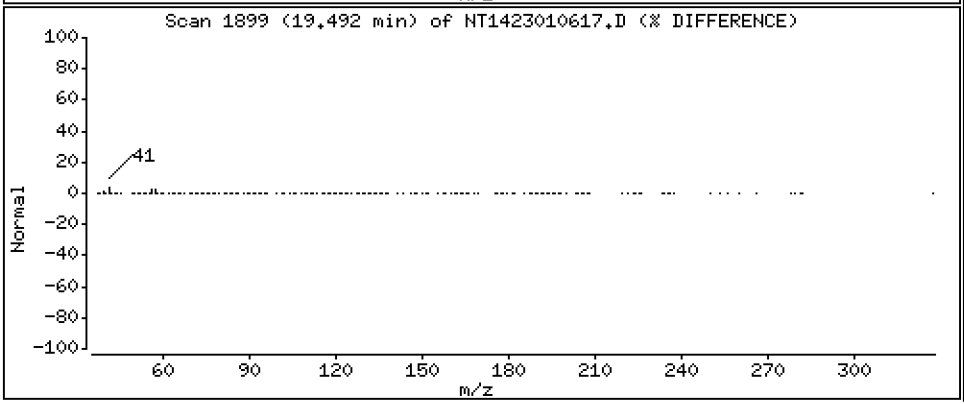
63 Di-n-butylphthalate

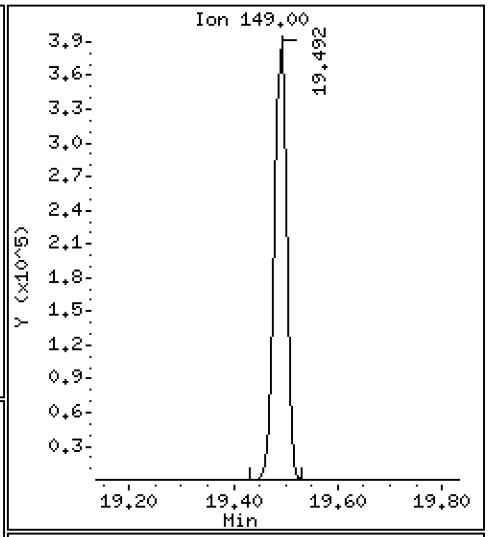
Concentration: 5.744 ug/mL

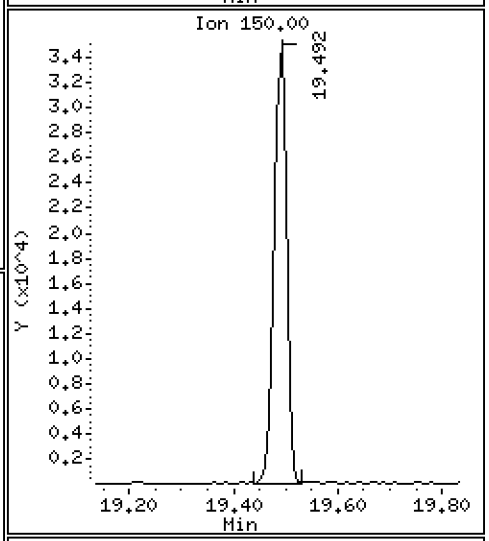


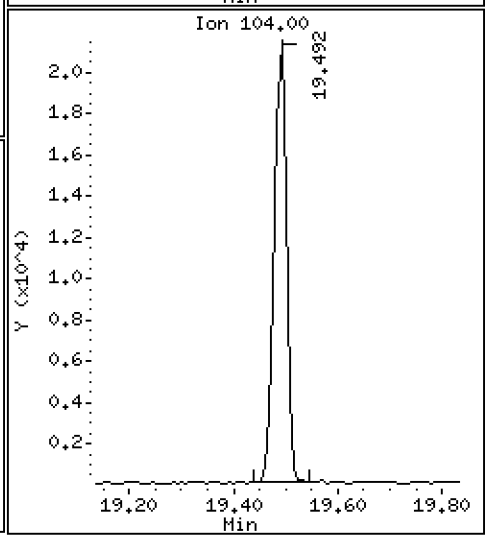












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

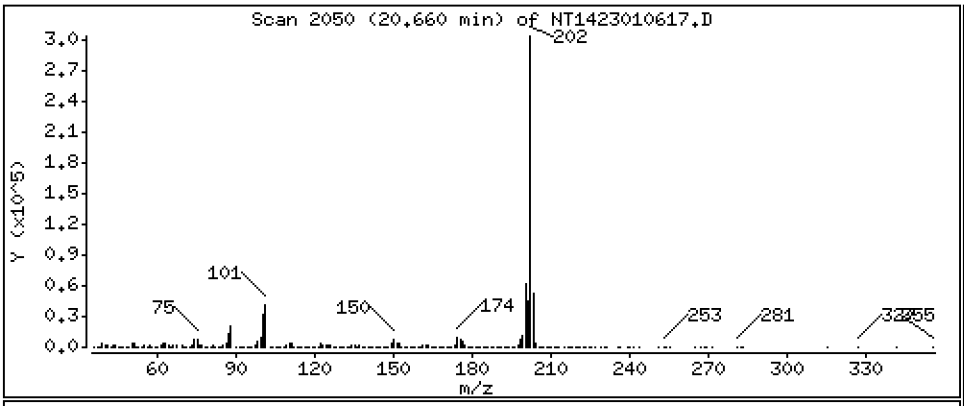
Operator: VTS

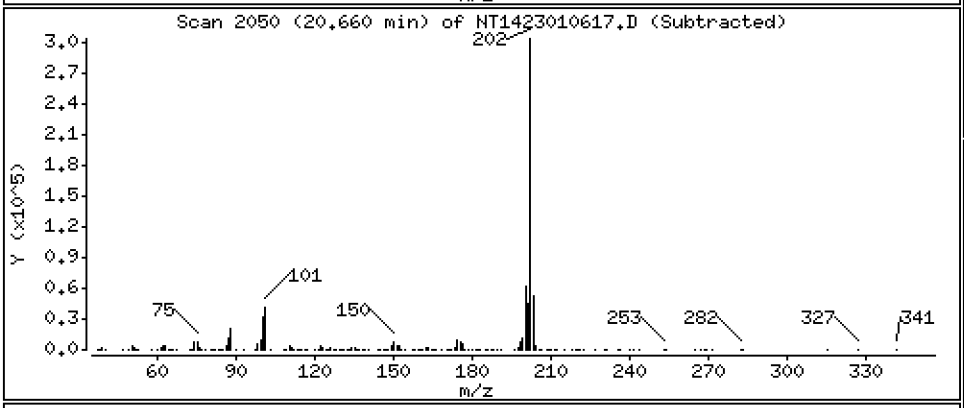
Column phase: ZB-5msi

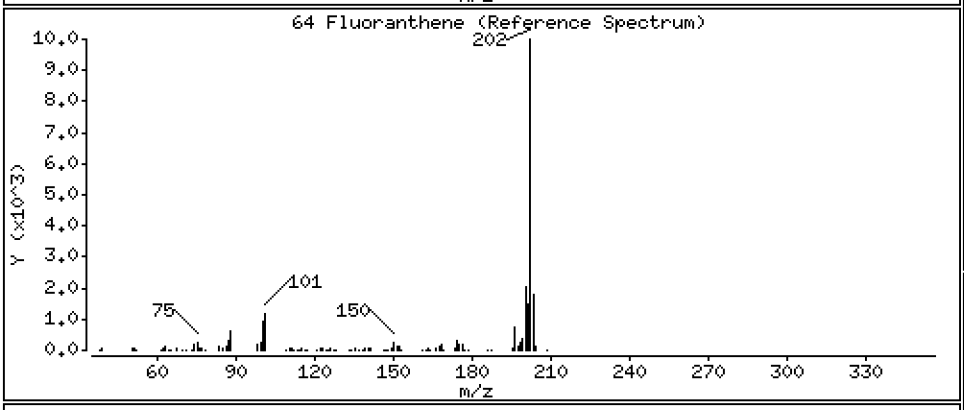
Column diameter: 0.25

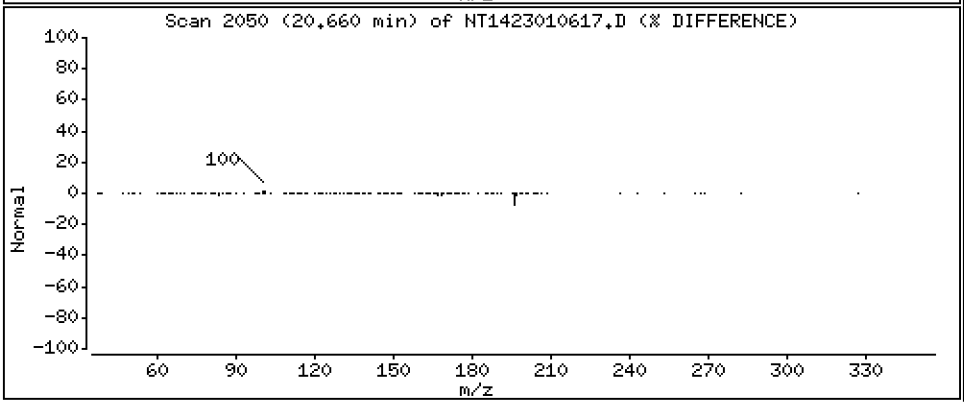
64 Fluoranthene

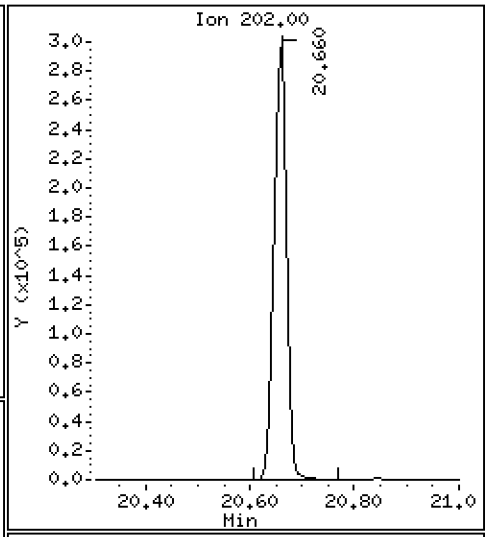
Concentration: 5.423 ug/mL

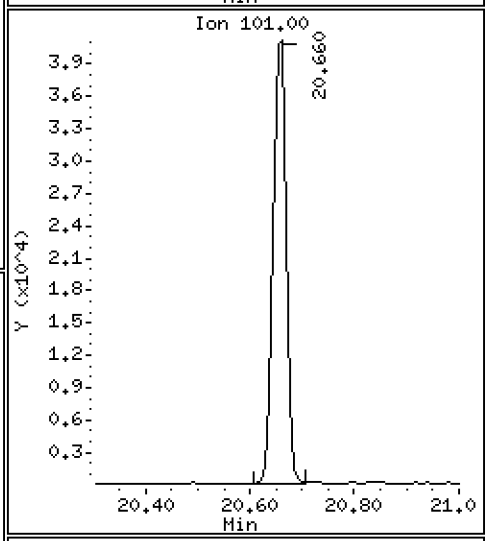


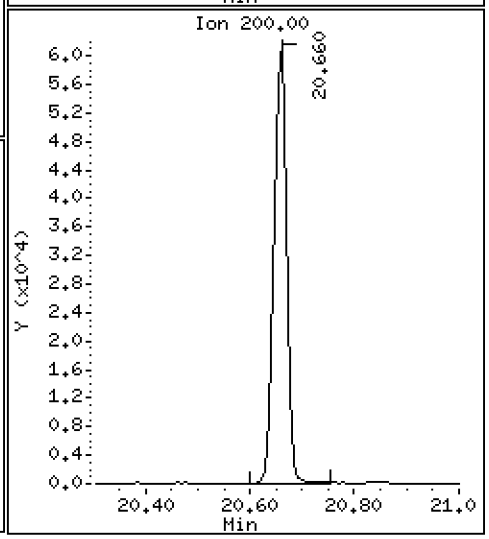












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

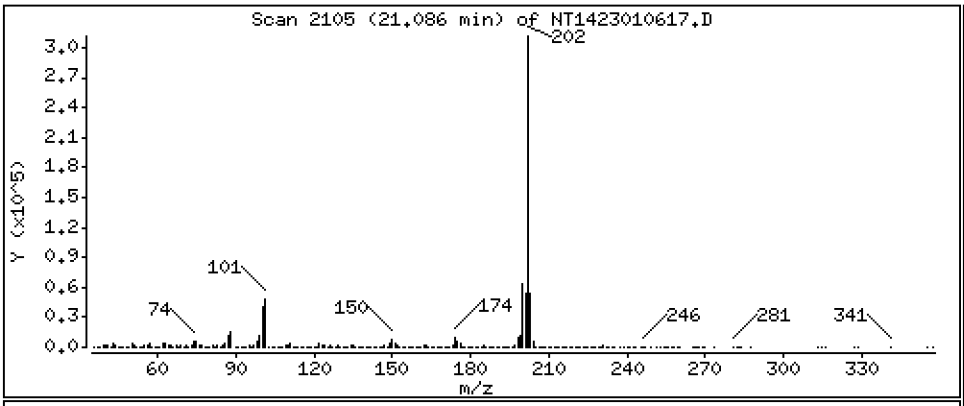
Operator: VTS

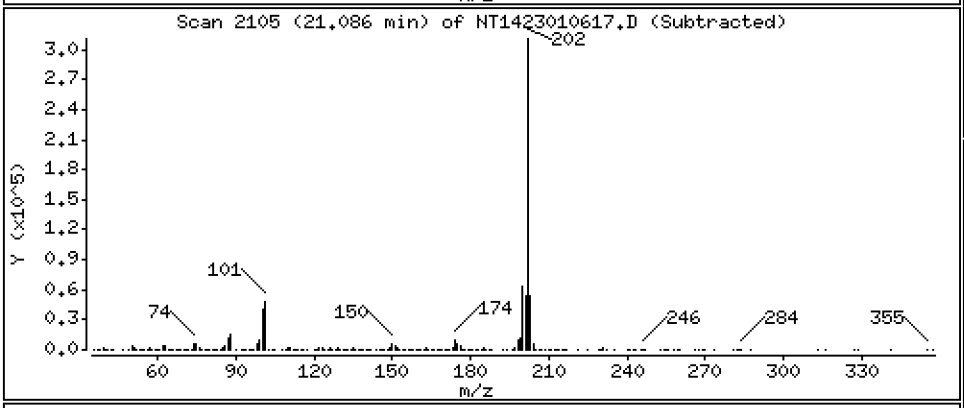
Column phase: ZB-5msi

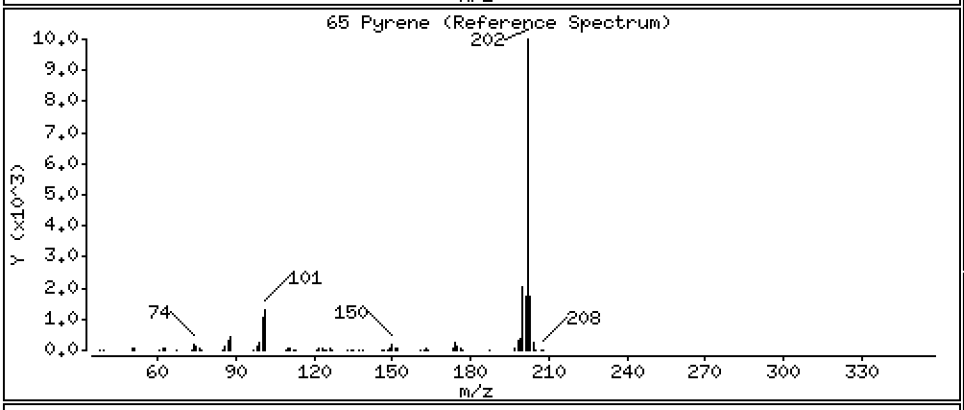
Column diameter: 0.25

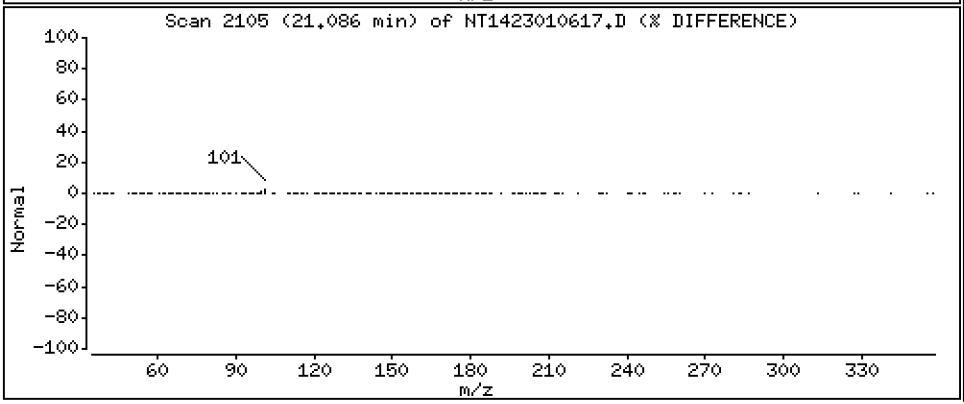
65 Pyrene

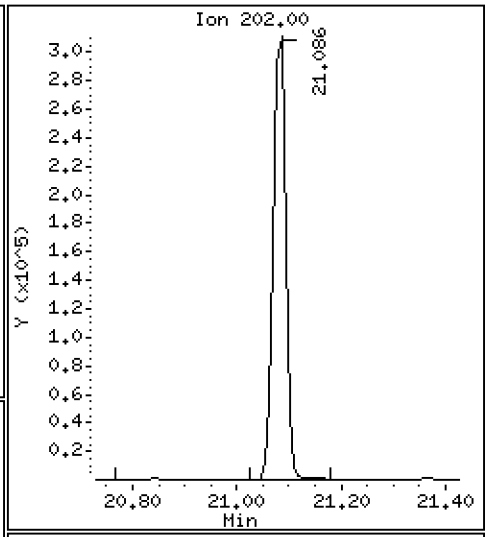
Concentration: 5.270 ug/mL

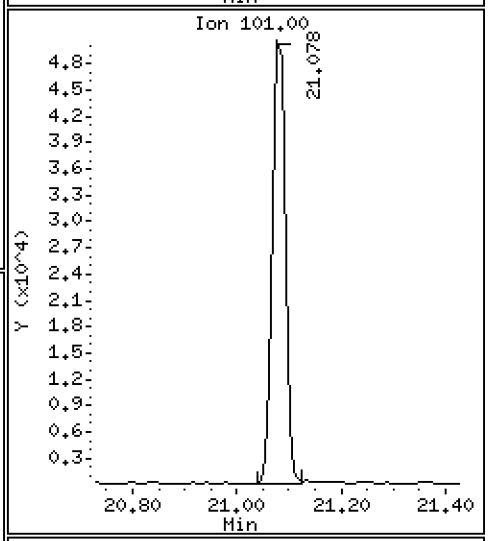


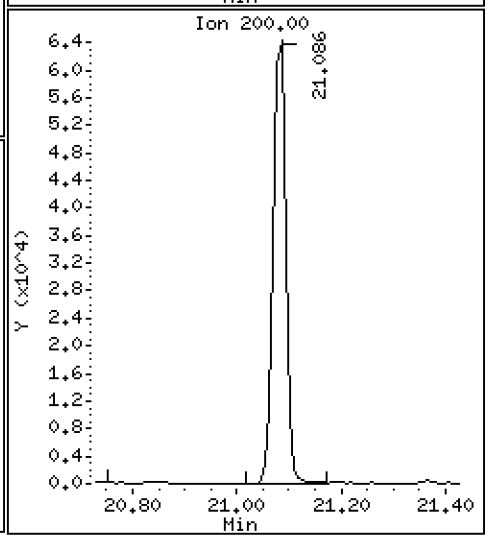












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

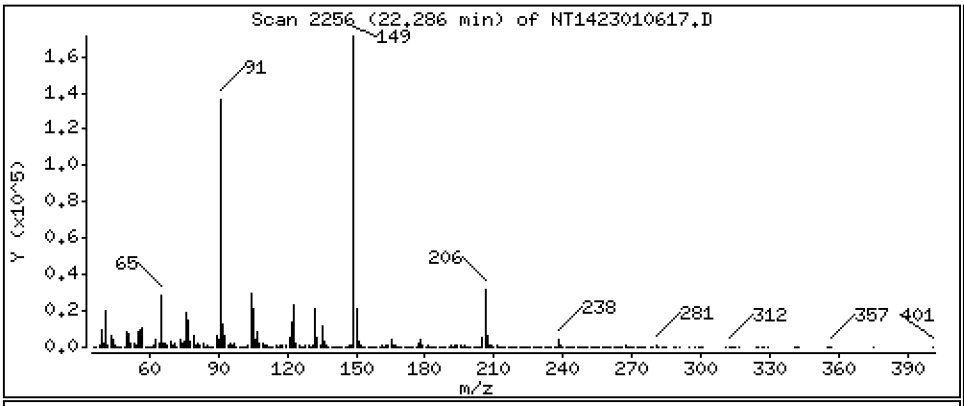
Operator: VTS

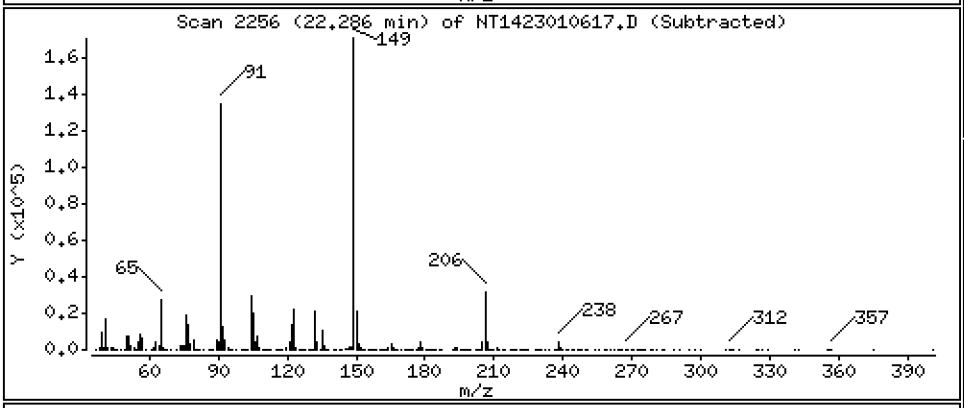
Column phase: ZB-5msi

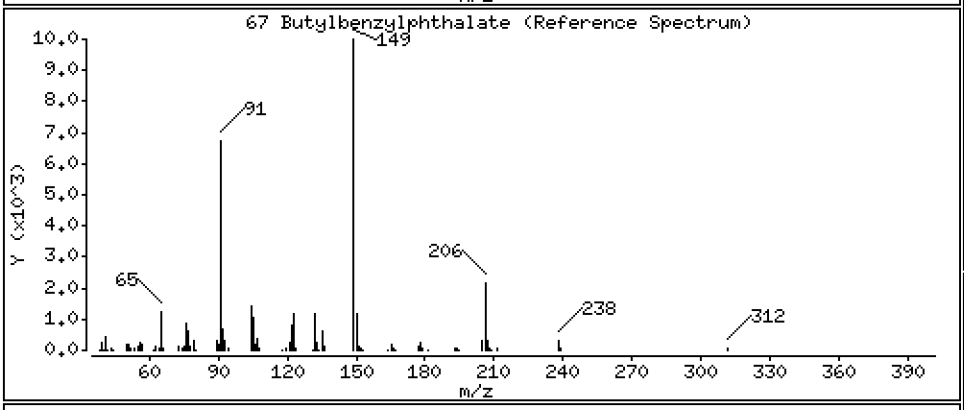
Column diameter: 0.25

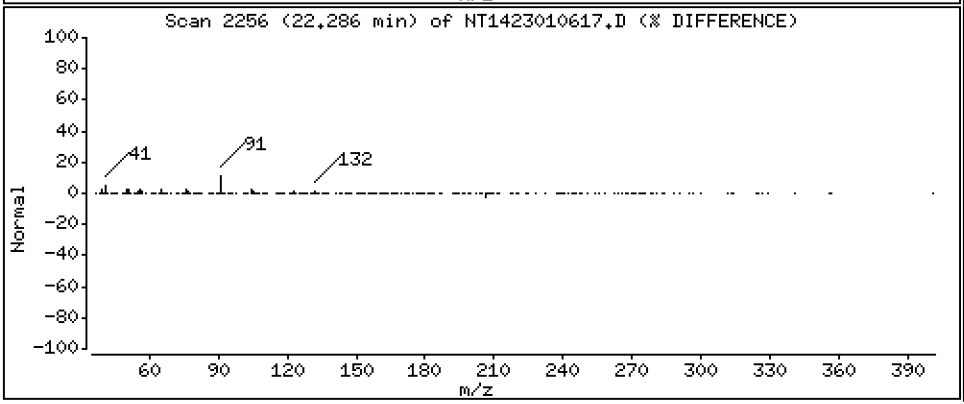
67 Butylbenzylphthalate

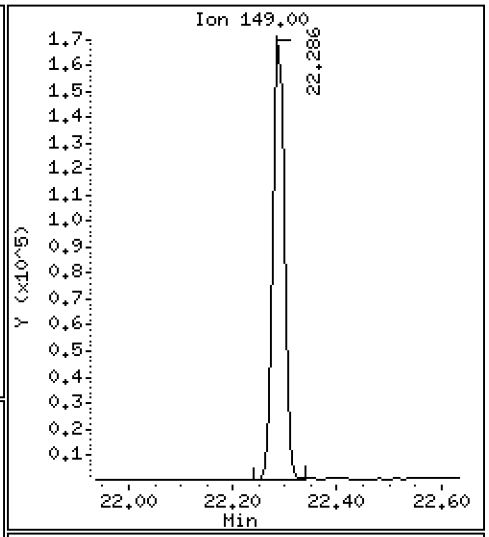
Concentration: 6.758 ug/mL

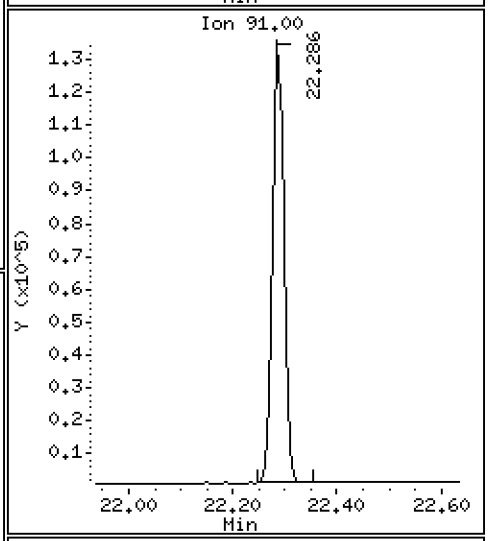


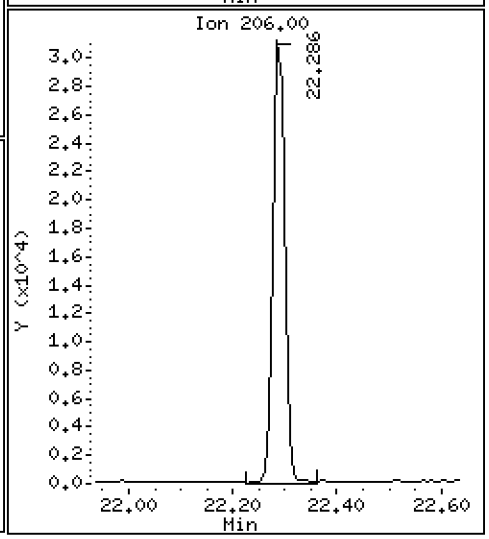












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

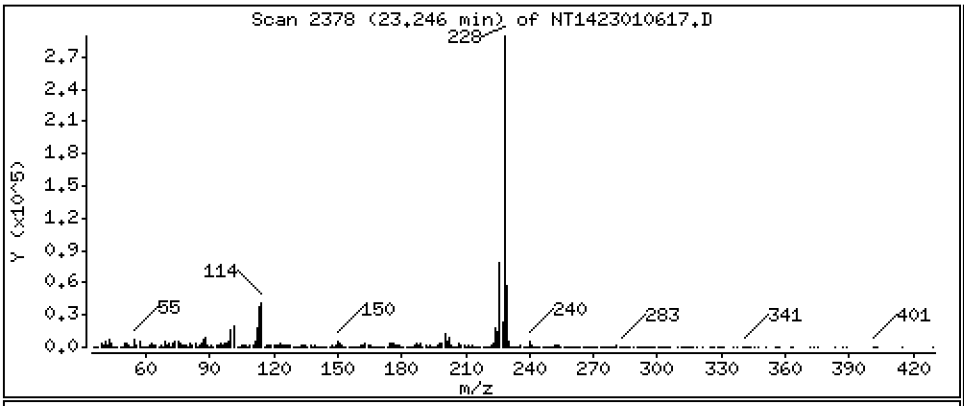
Operator: VTS

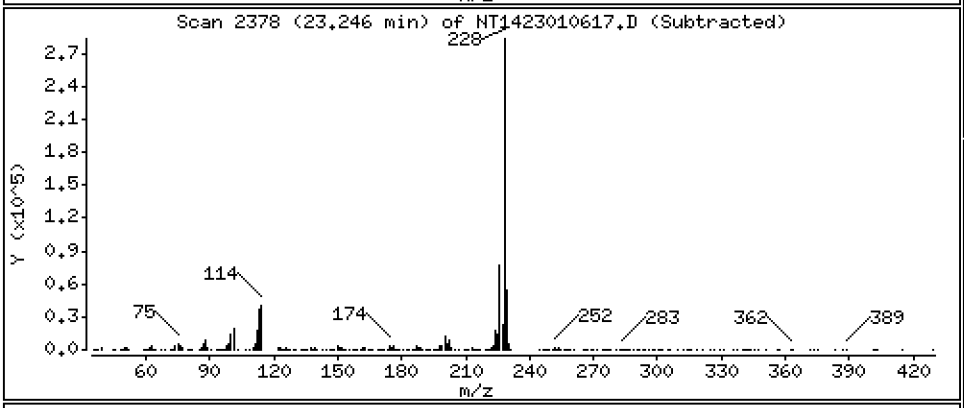
Column phase: ZB-5msi

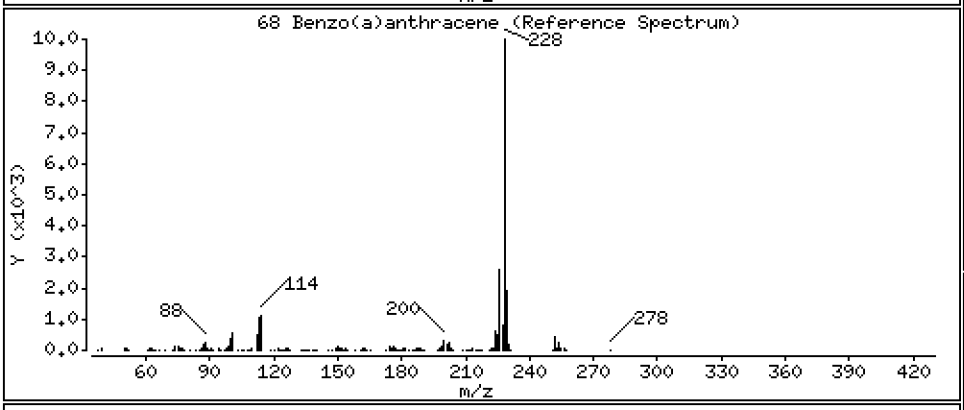
Column diameter: 0.25

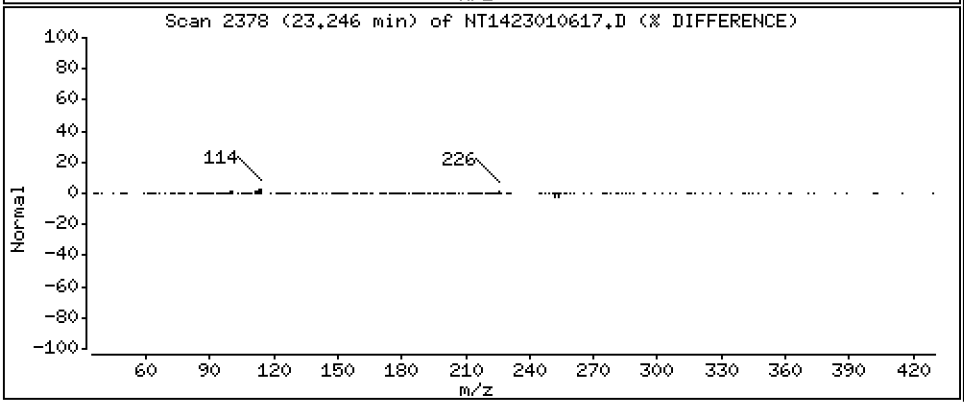
68 Benzo(a)anthracene

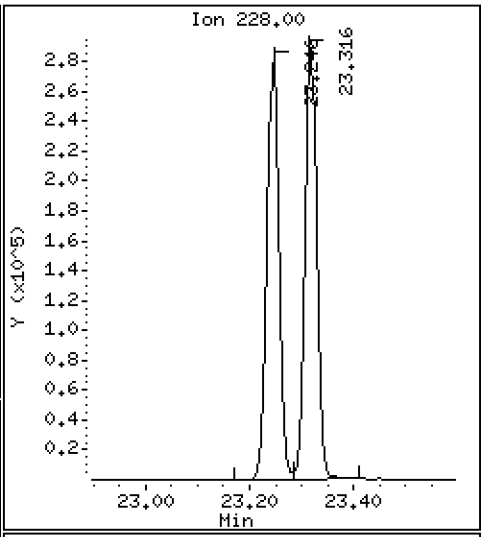
Concentration: 5.120 ug/mL

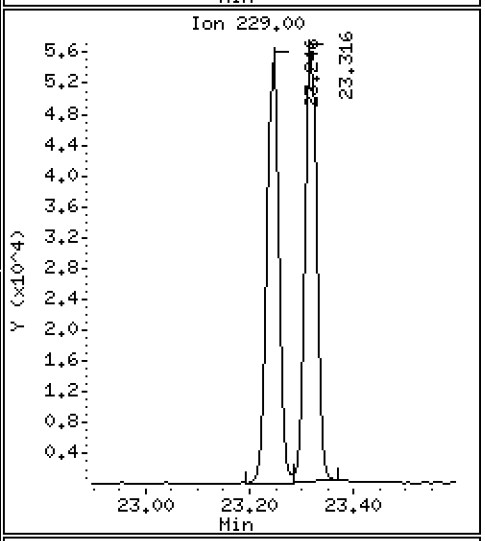


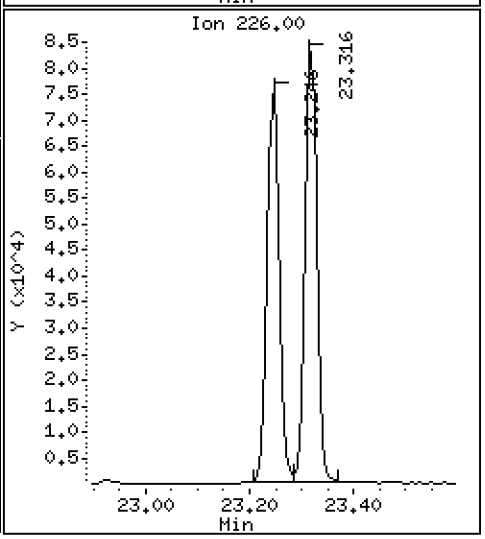












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

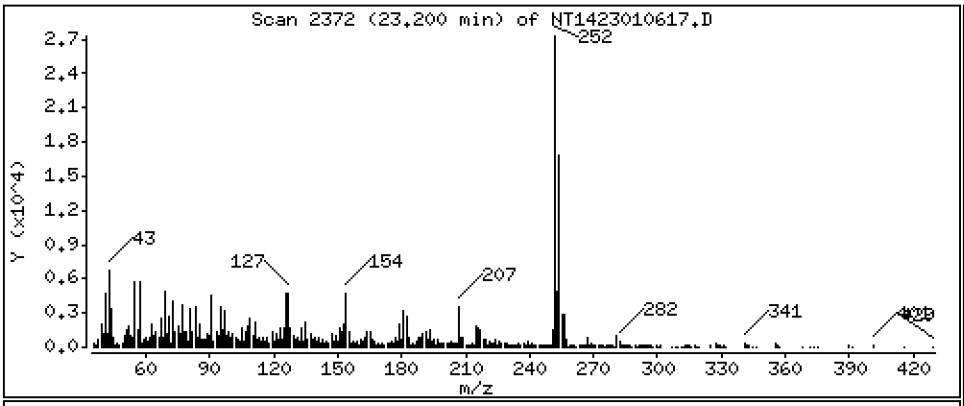
Operator: VTS

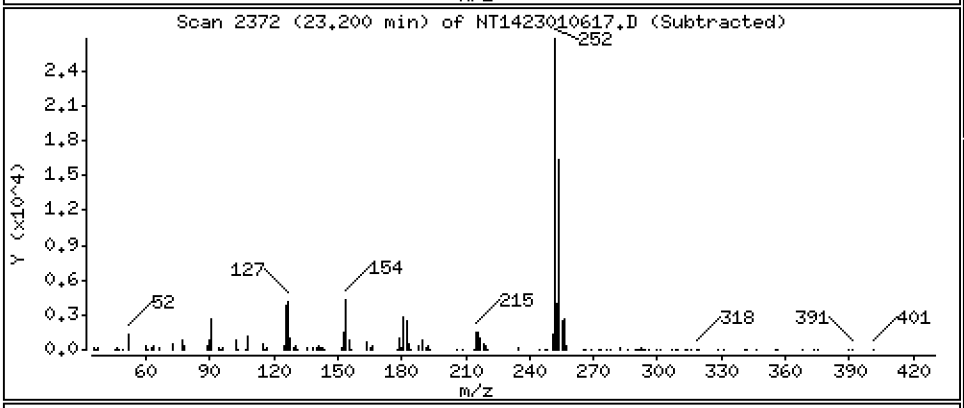
Column phase: ZB-5msi

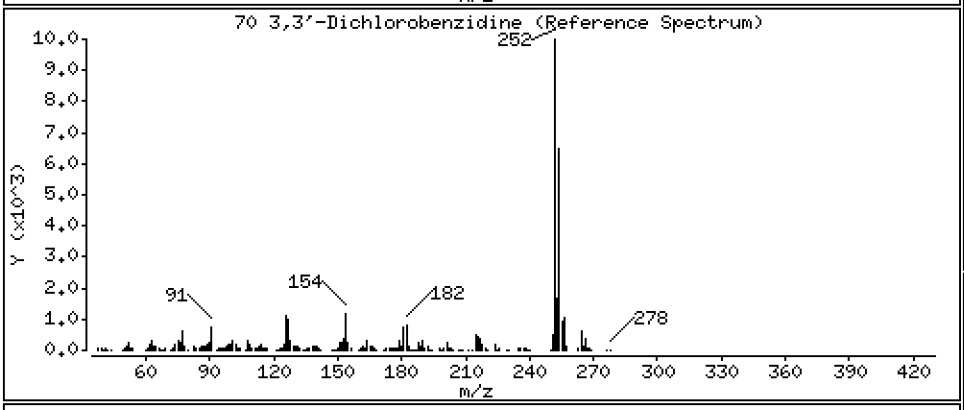
Column diameter: 0.25

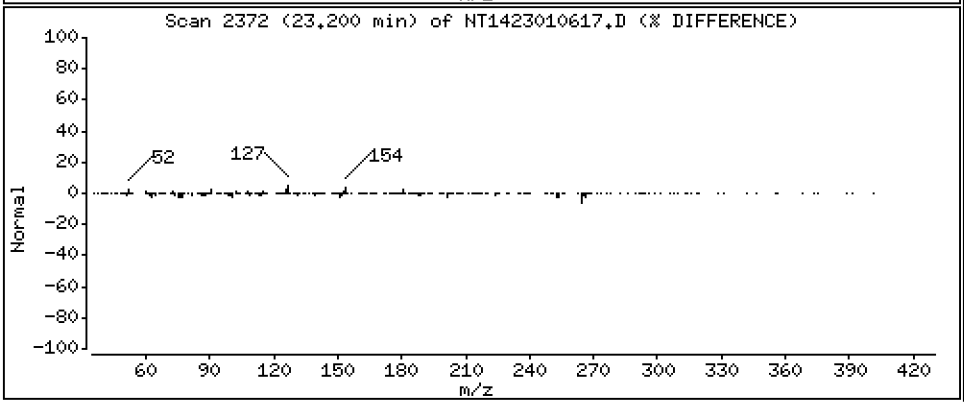
70 3,3'-Dichlorobenzidine

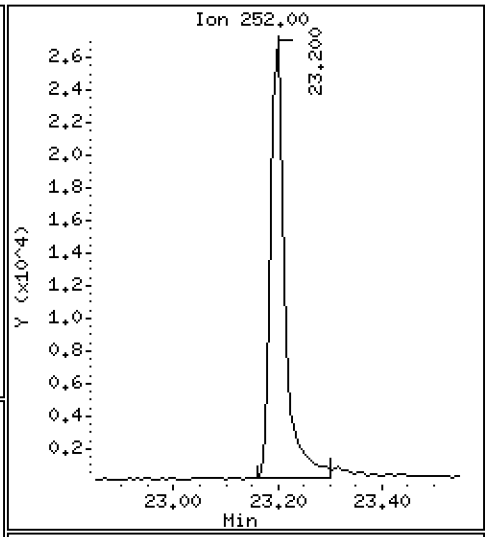
Concentration: 1.919 ug/mL

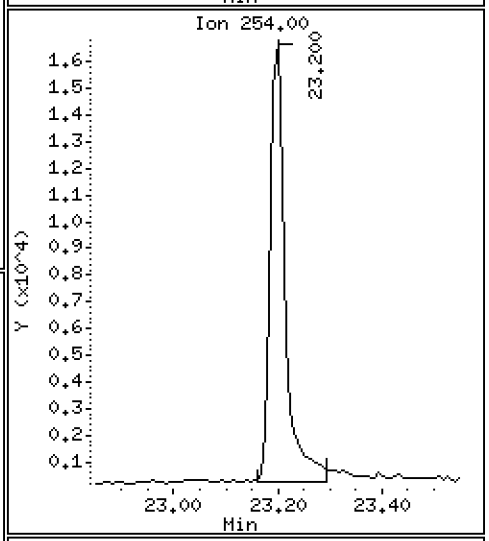


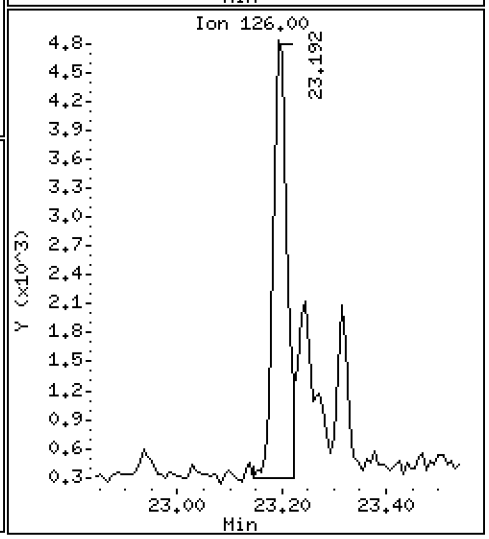












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

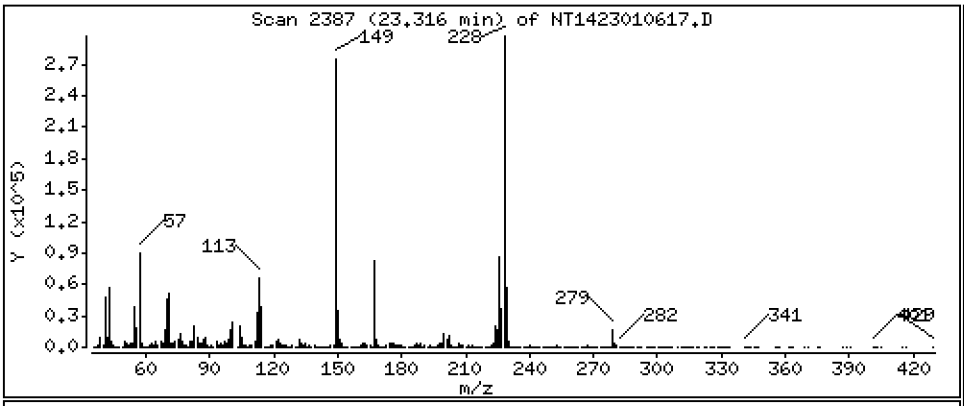
Operator: VTS

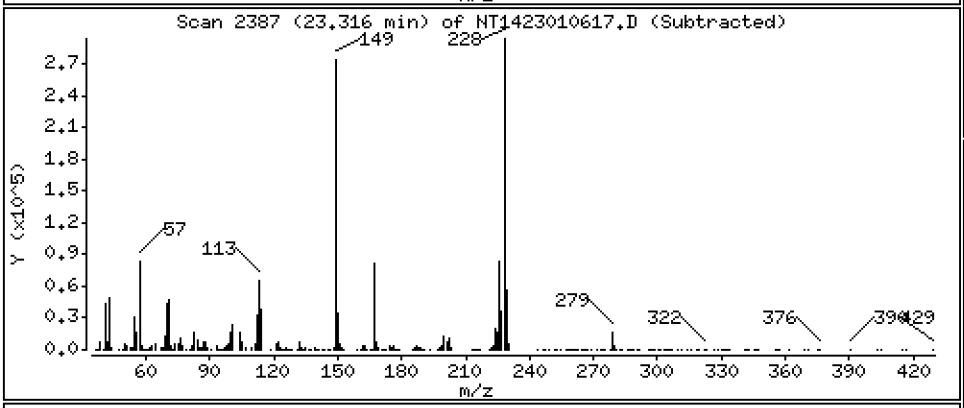
Column phase: ZB-5msi

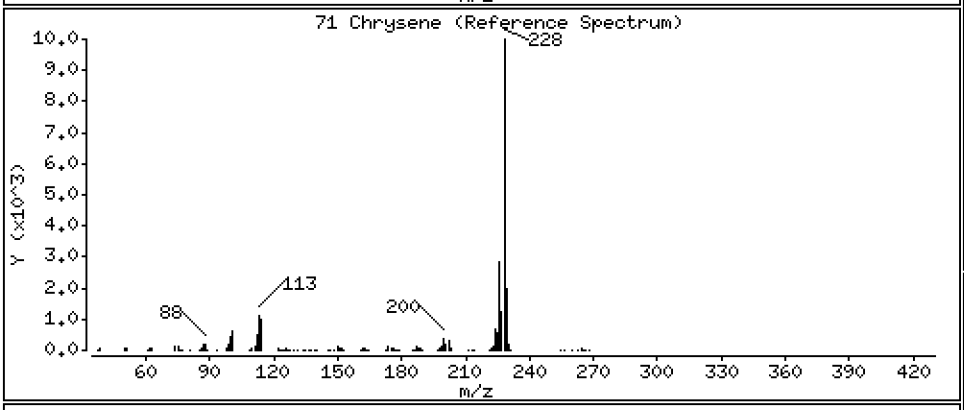
Column diameter: 0.25

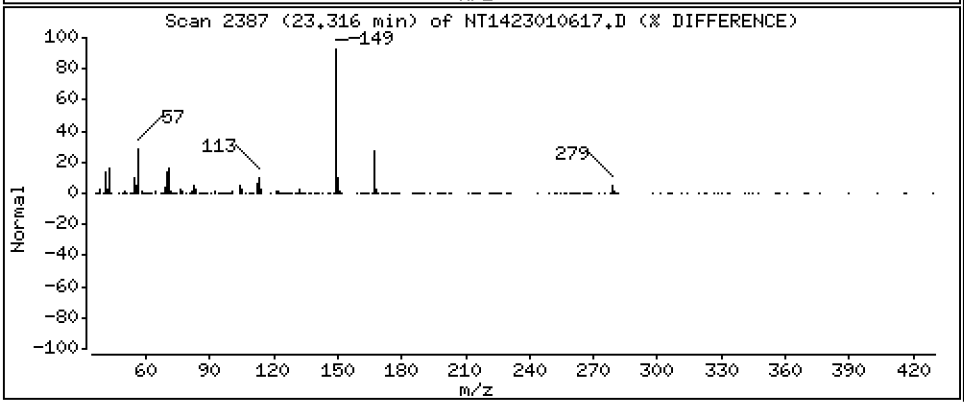
71 Chrysene

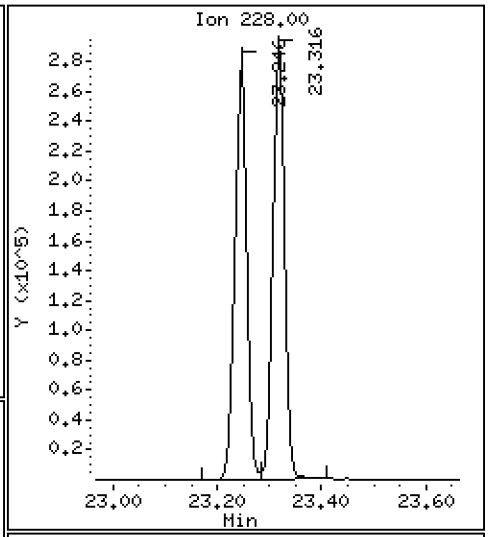
Concentration: 5.381 ug/mL

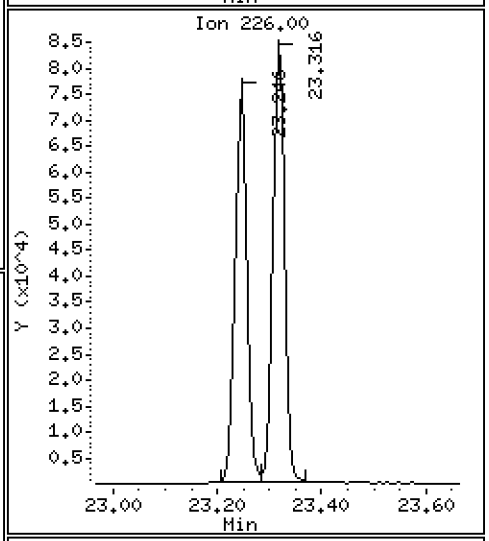


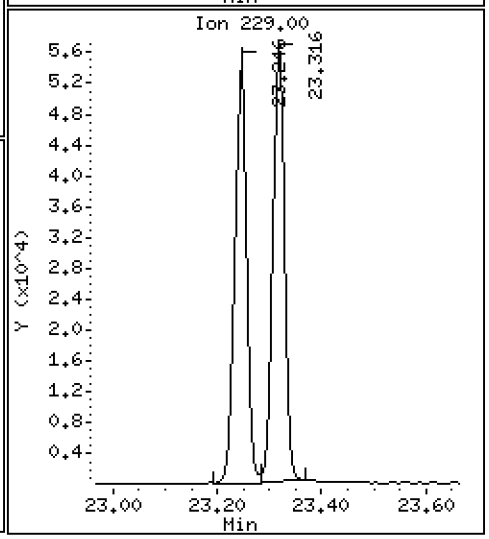












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

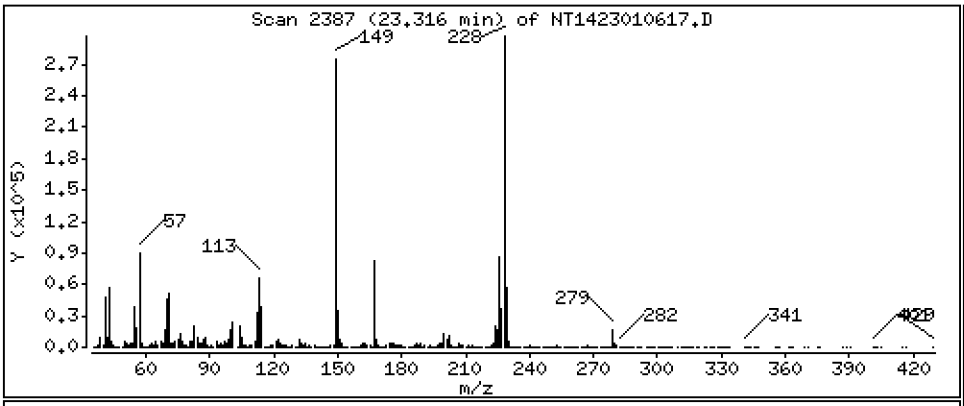
Operator: VTS

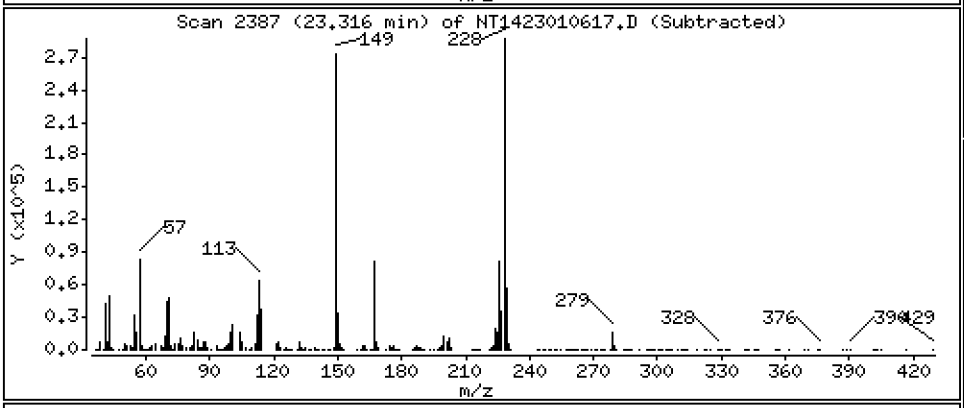
Column phase: ZB-5msi

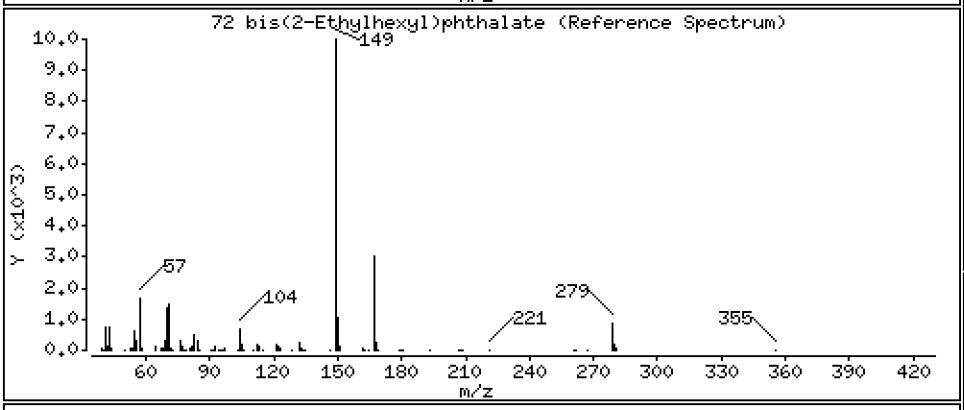
Column diameter: 0.25

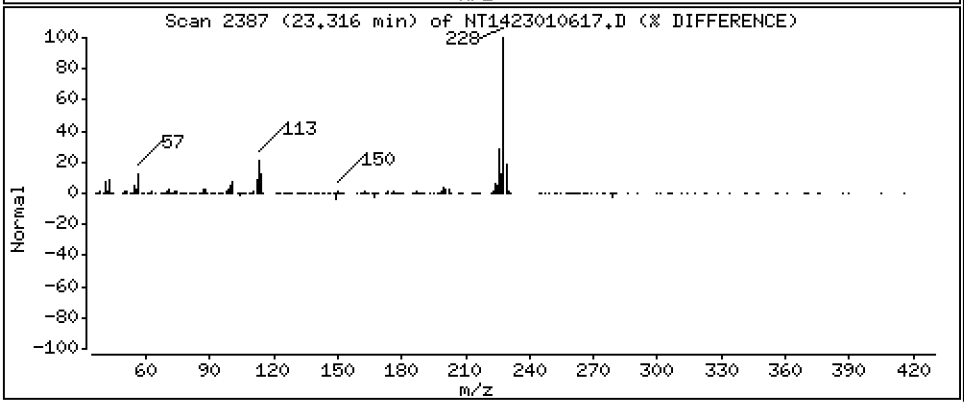
72 bis(2-Ethylhexyl)phthalate

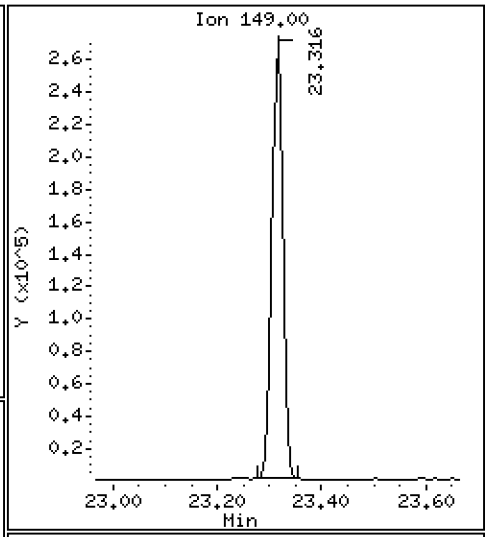
Concentration: 5.938 ug/mL

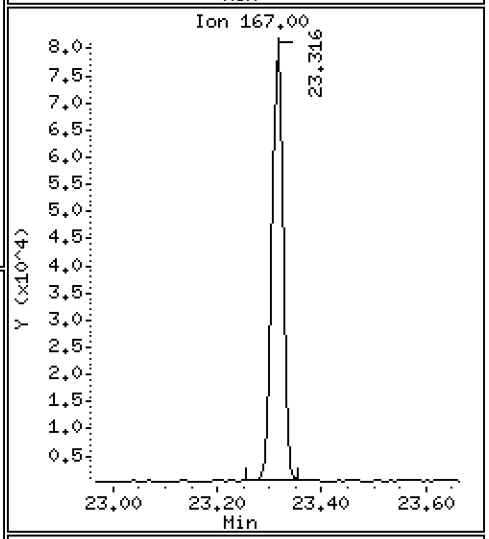


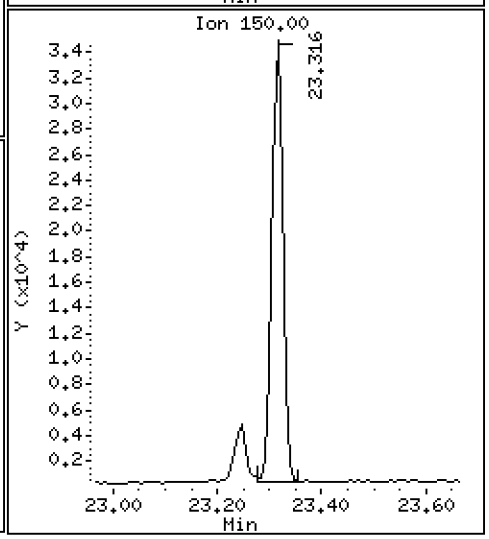












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

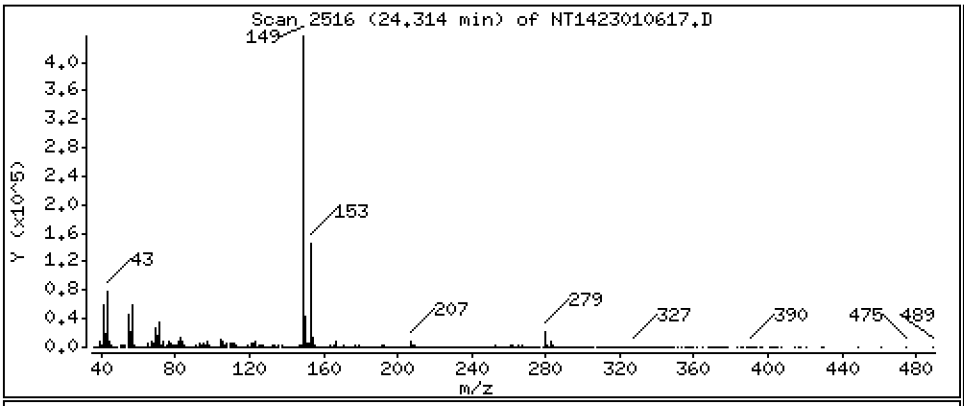
Operator: VTS

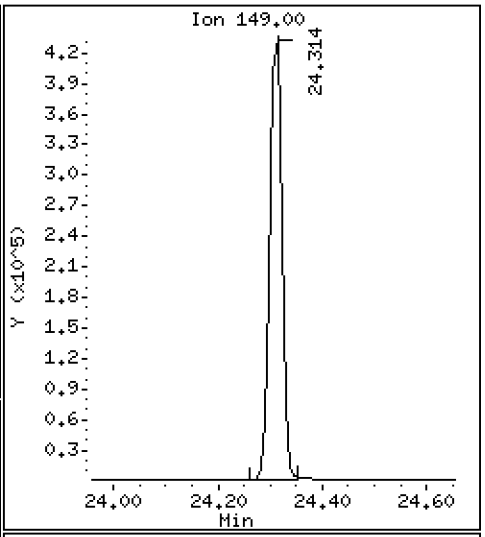
Column phase: ZB-5msi

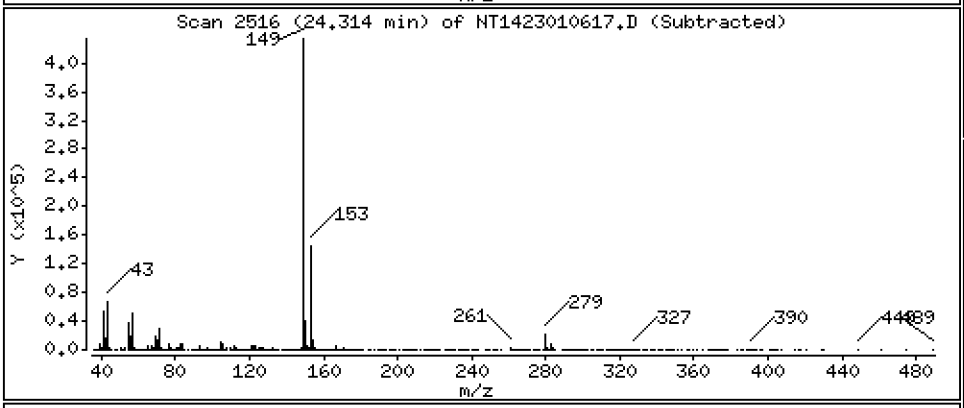
Column diameter: 0.25

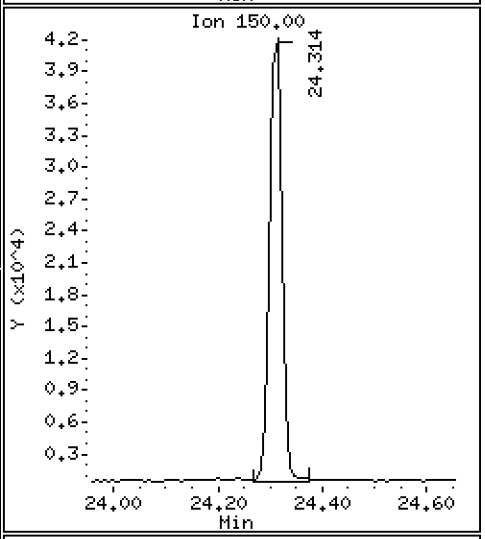
73 Di-n-octylphthalate

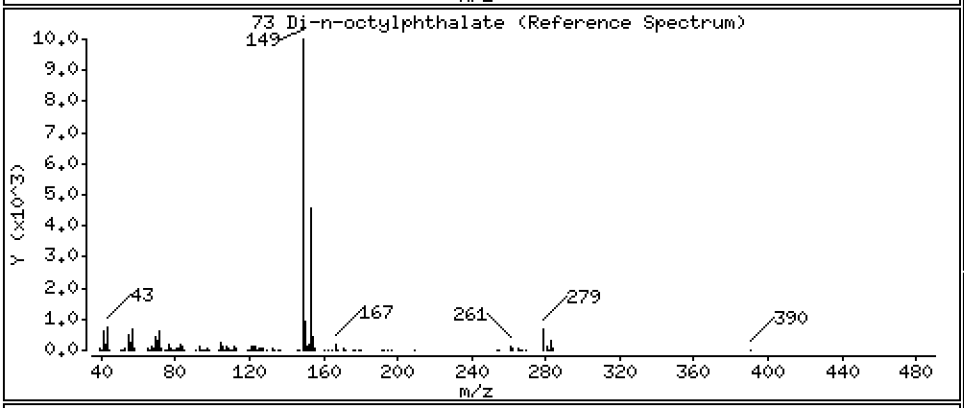
Concentration: 4.919 ug/mL

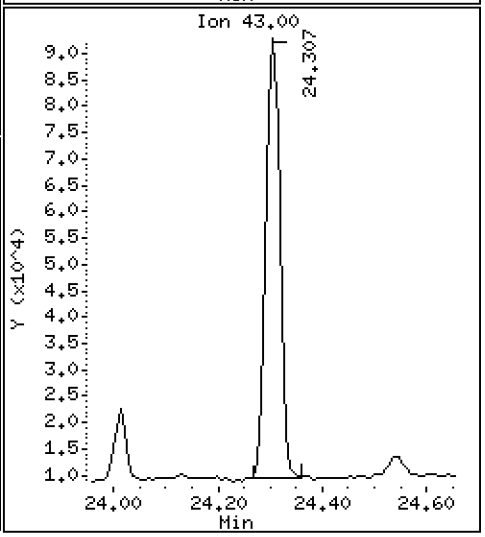


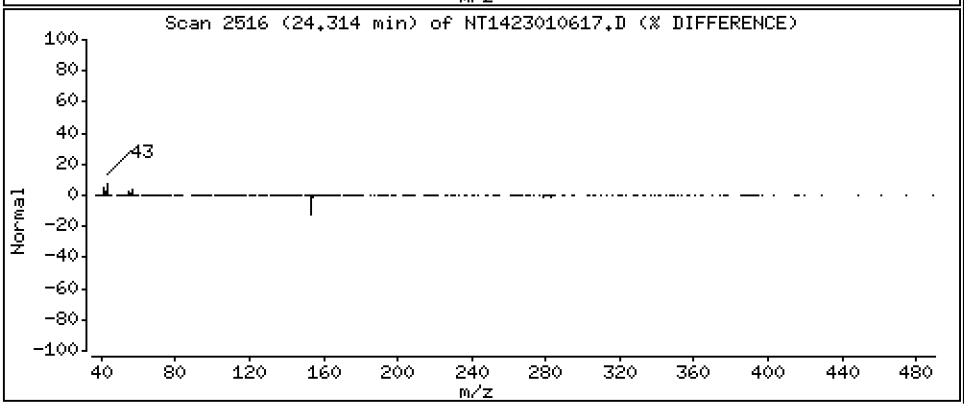












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

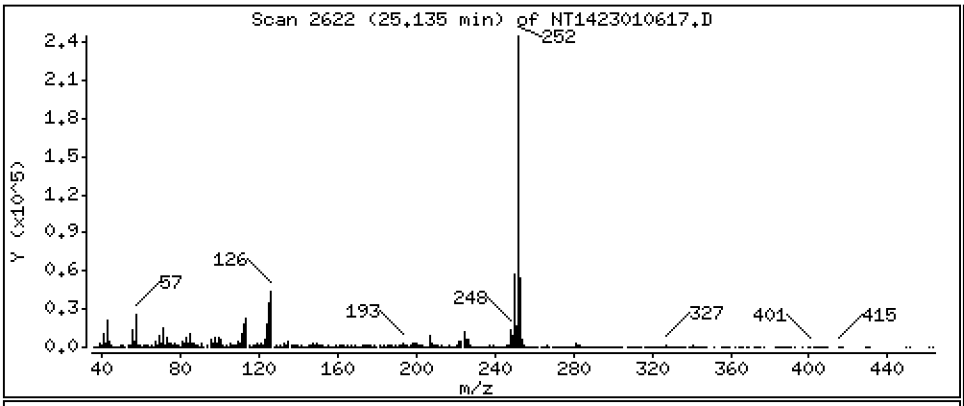
Operator: VTS

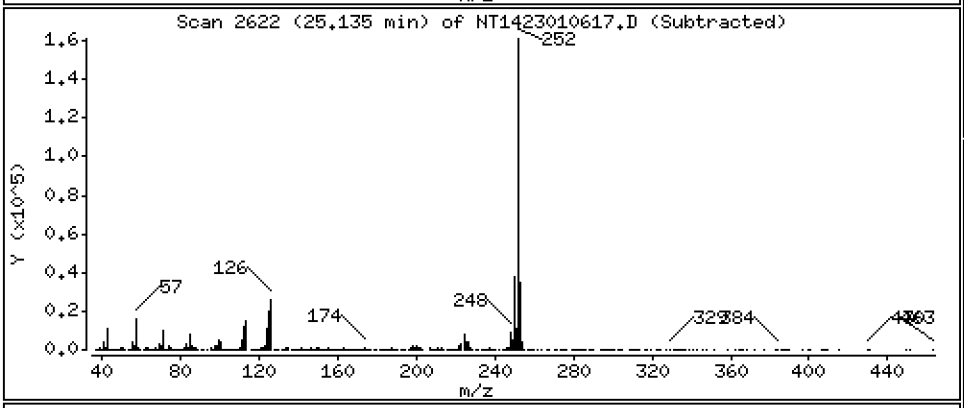
Column phase: ZB-5msi

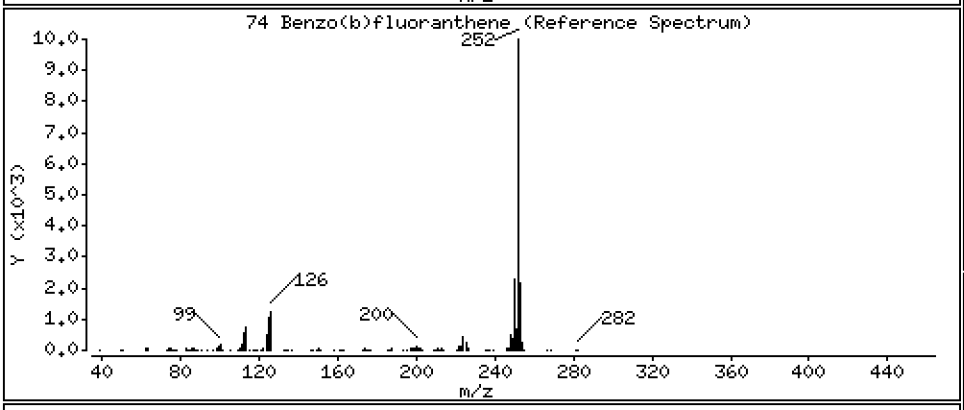
Column diameter: 0.25

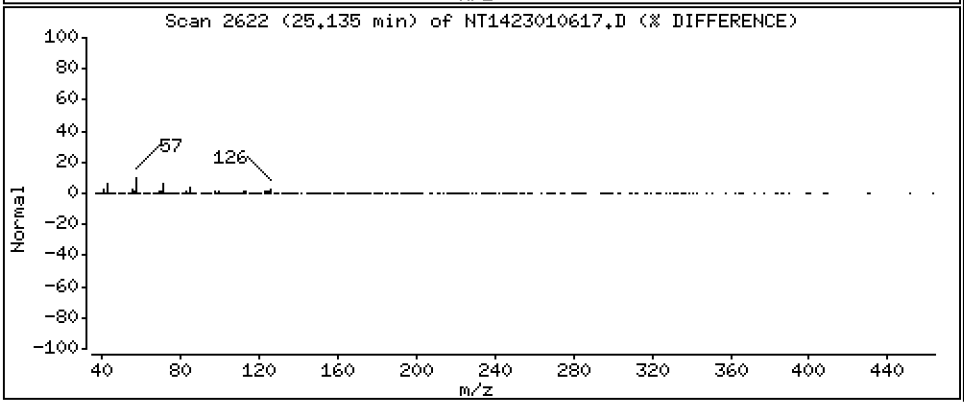
74 Benzo(b)fluoranthene

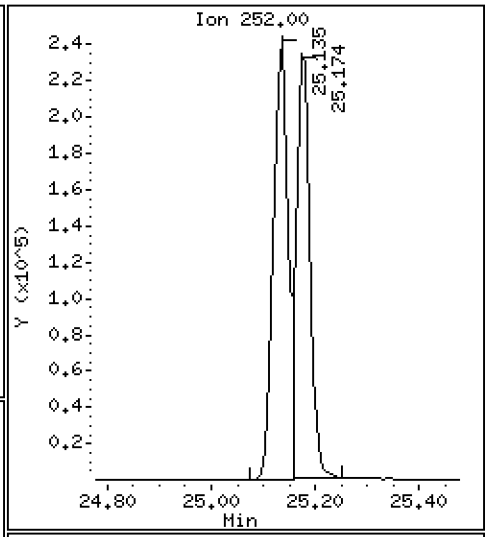
Concentration: 5.023 ug/mL

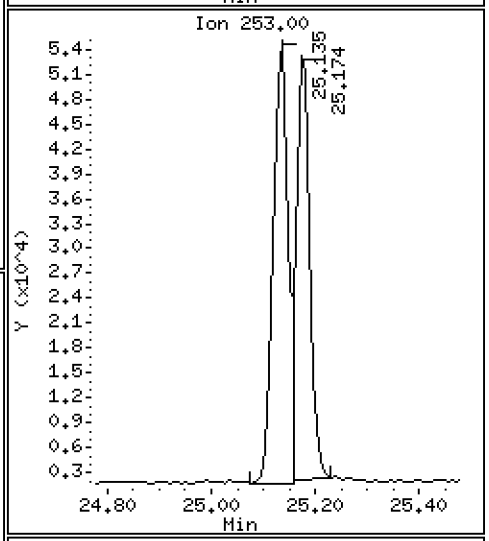


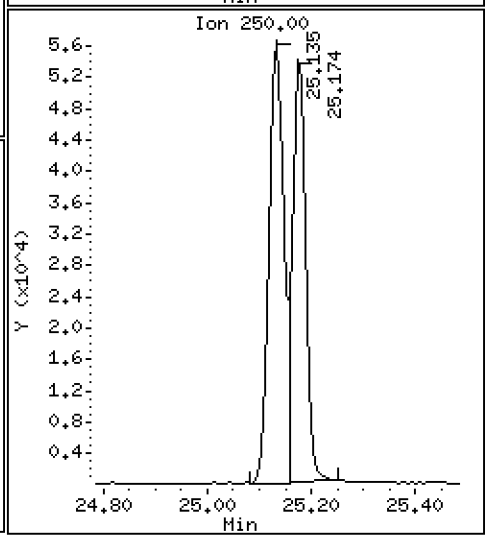












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

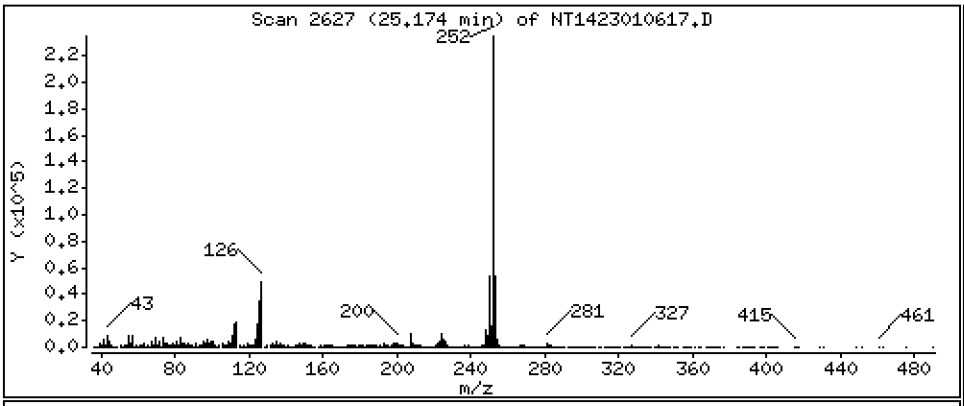
Operator: VTS

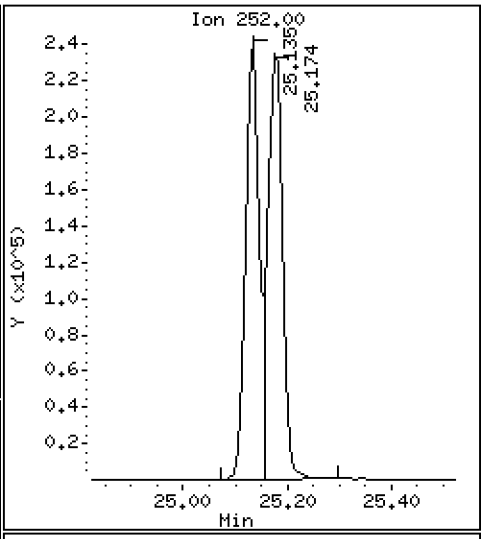
Column phase: ZB-5msi

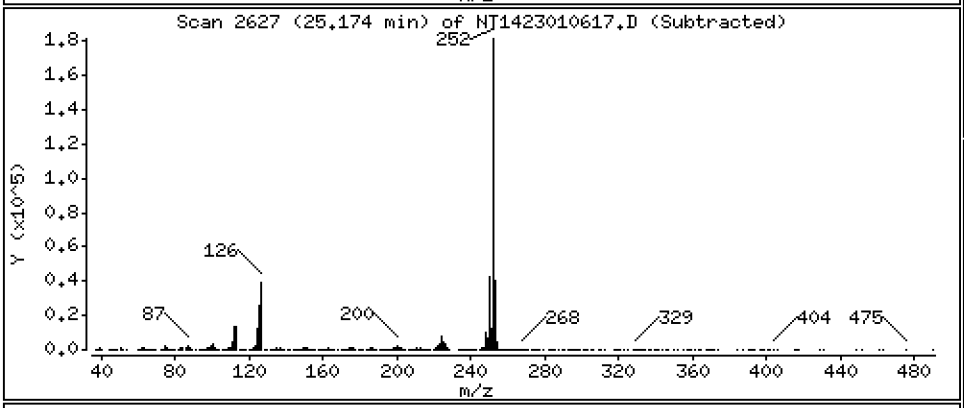
Column diameter: 0.25

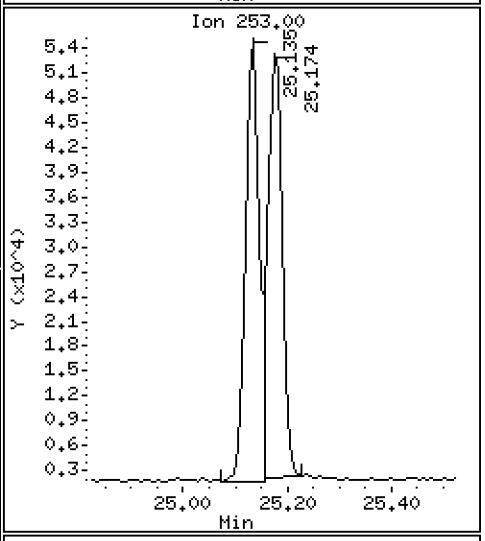
75 Benzo(k)fluoranthene

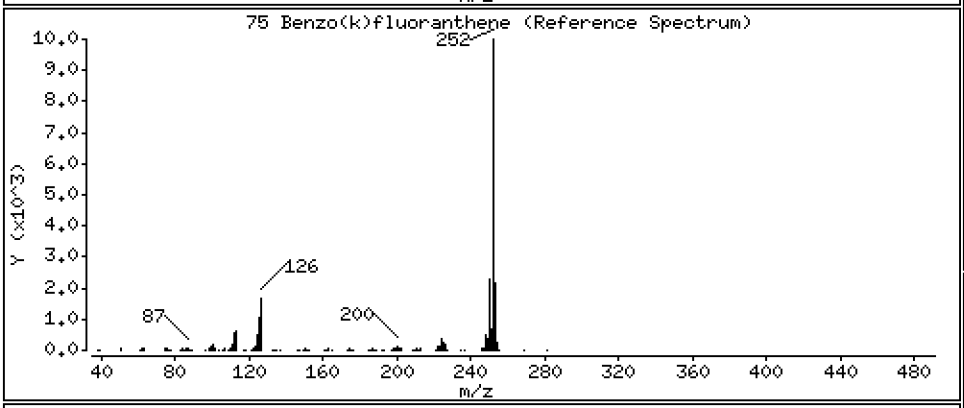
Concentration: 4.535 ug/mL

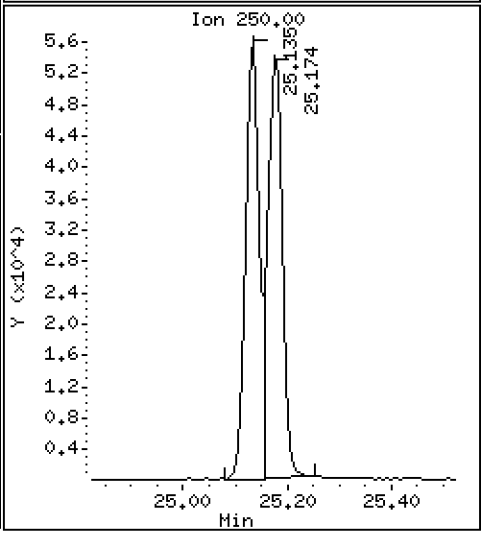


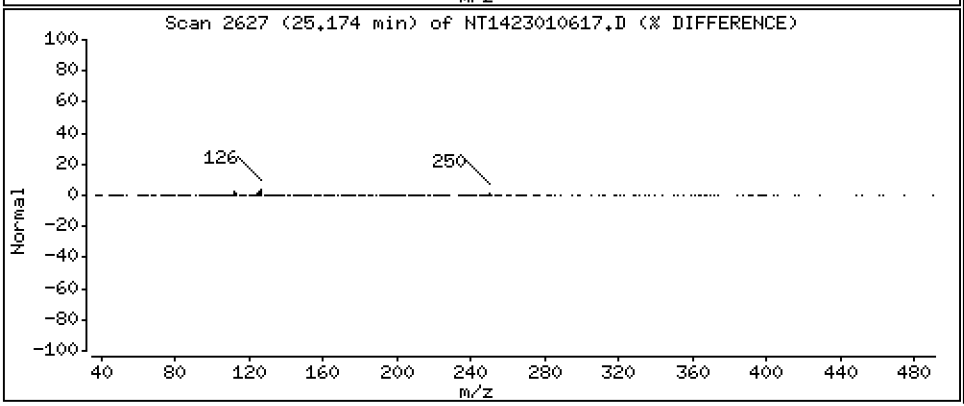












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

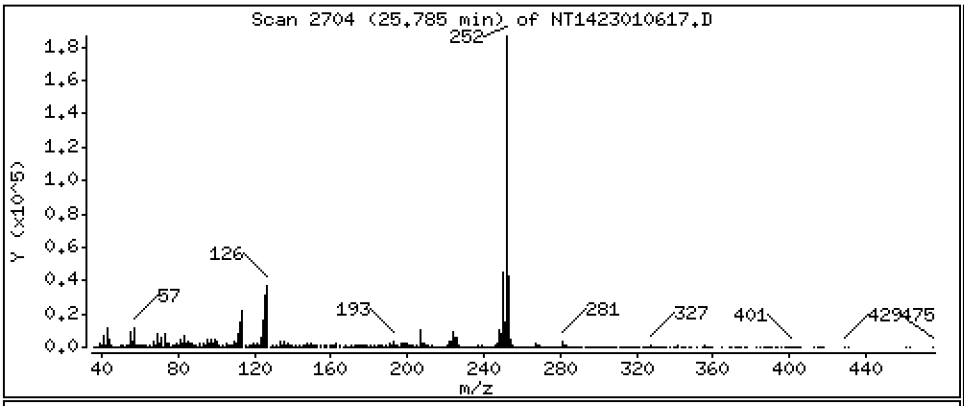
Operator: VTS

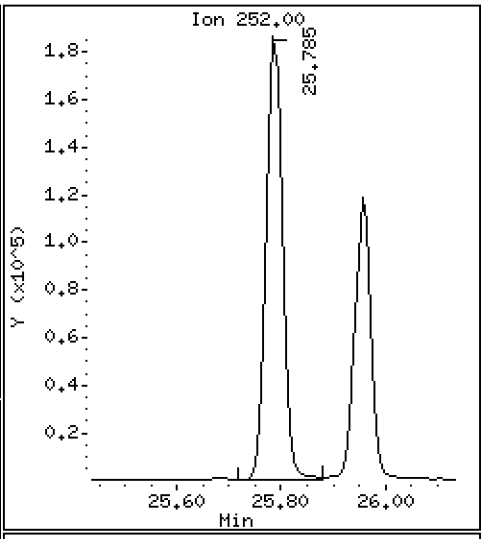
Column phase: ZB-5msi

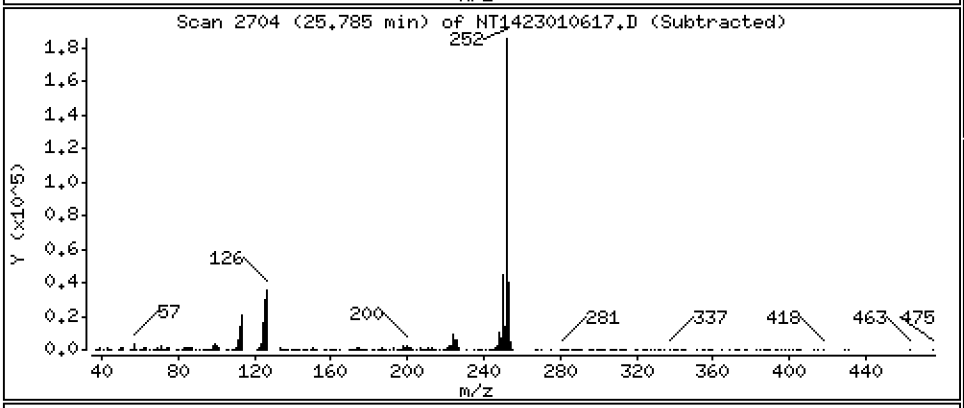
Column diameter: 0.25

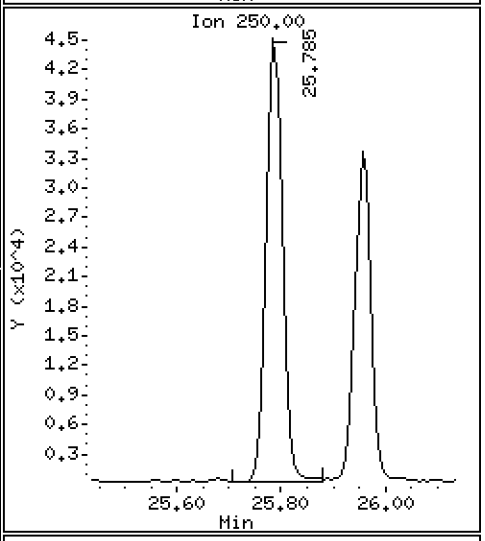
76 Benzo(a)pyrene

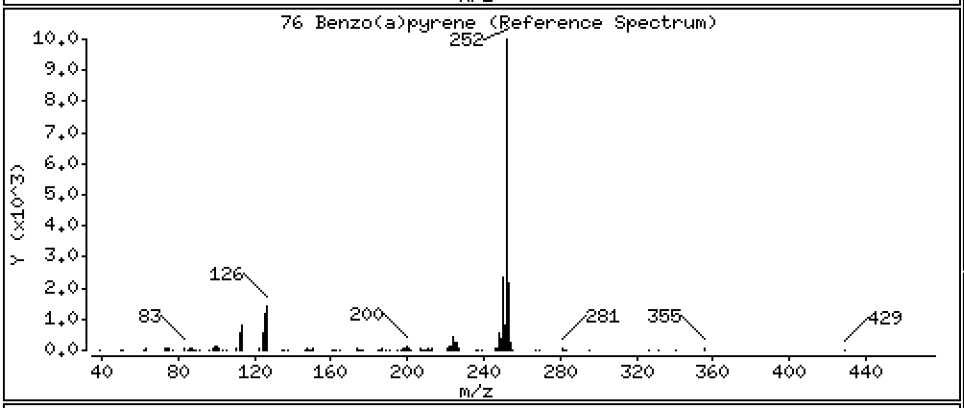
Concentration: 4.882 ug/mL

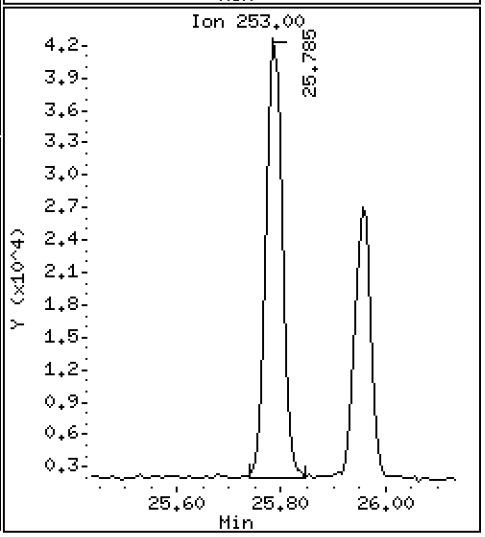


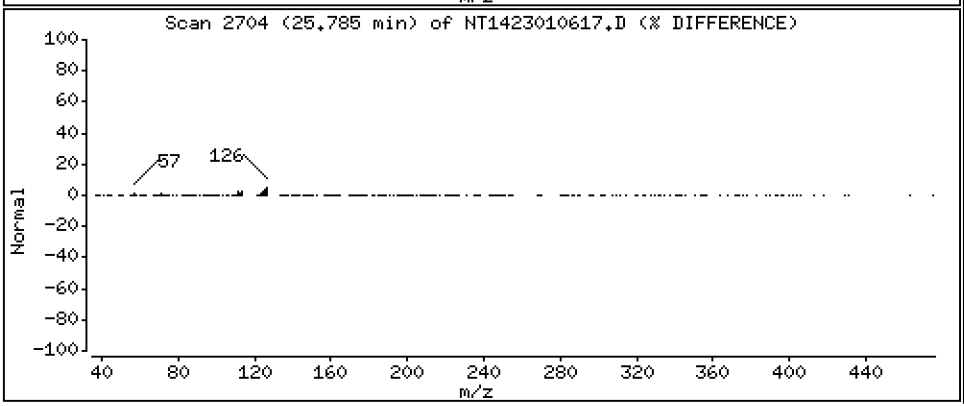












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

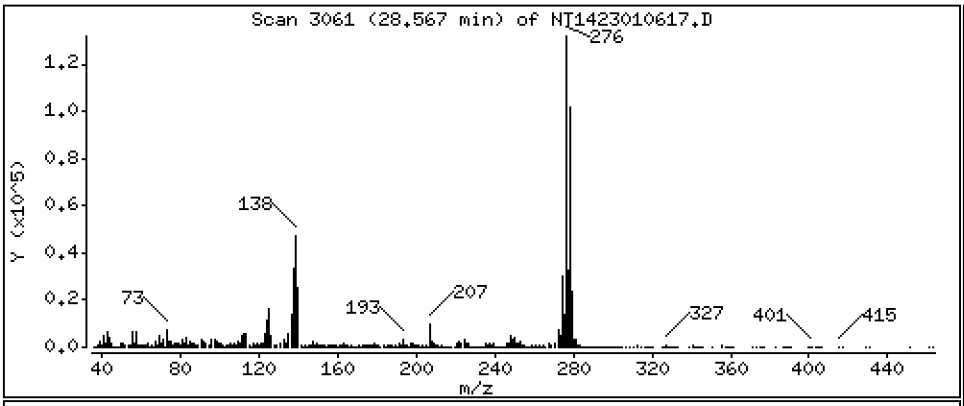
Operator: VTS

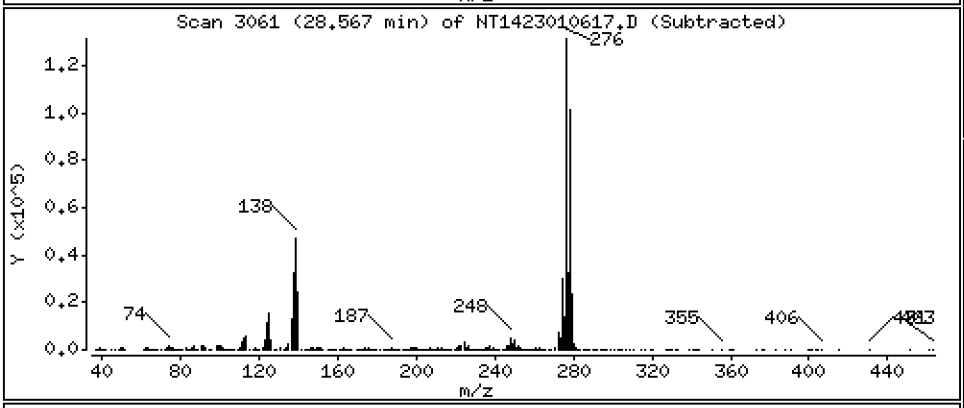
Column phase: ZB-5msi

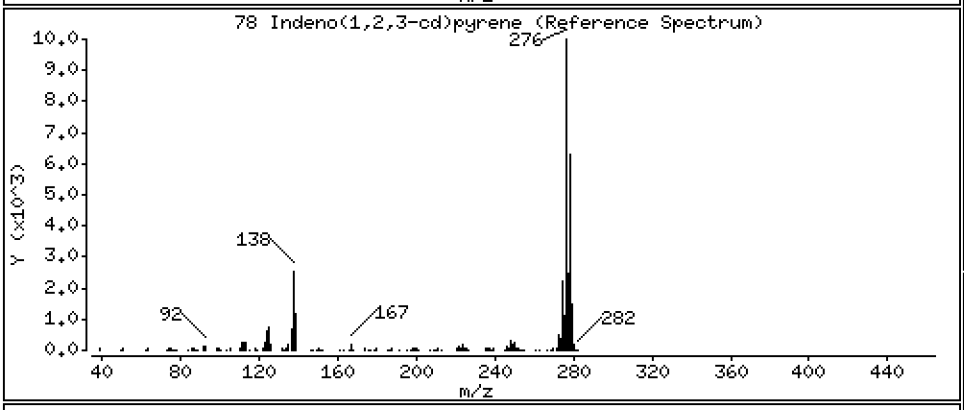
Column diameter: 0.25

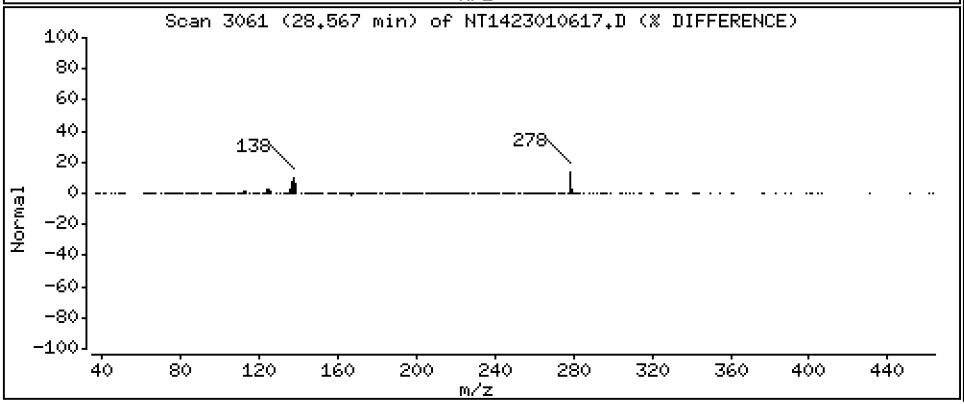
78 Indeno(1,2,3-cd)pyrene

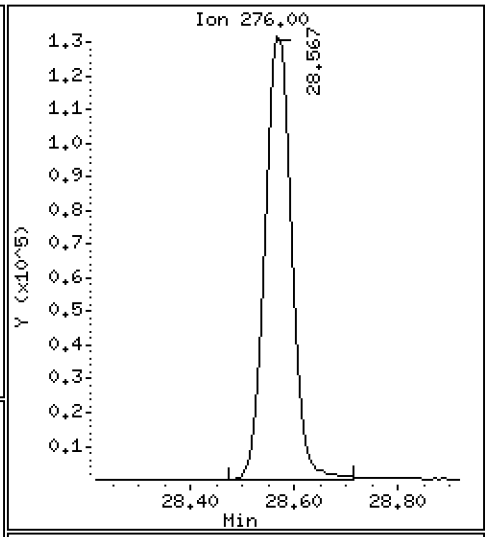
Concentration: 5.075 ug/mL

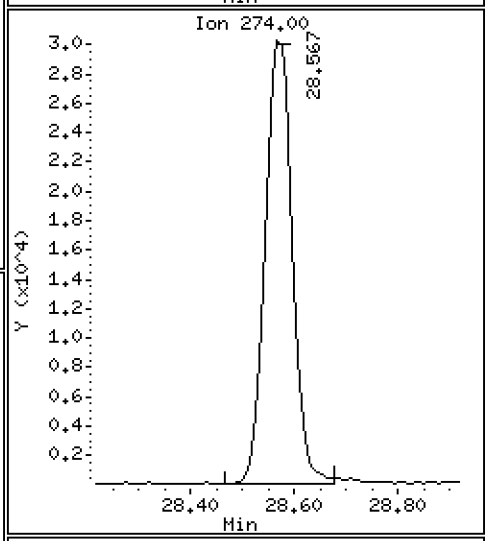


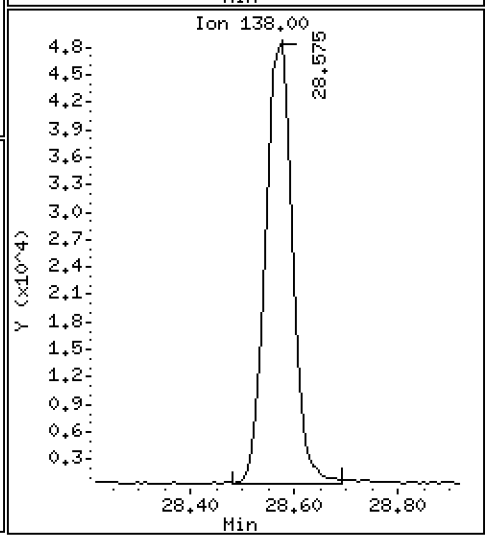












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

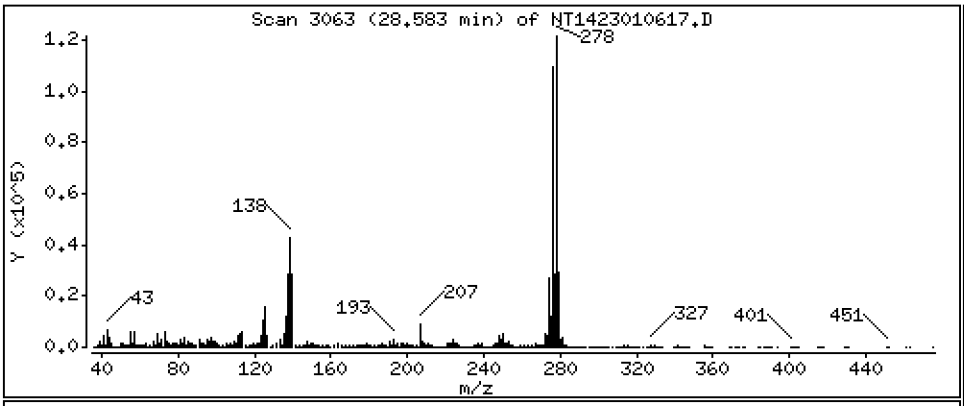
Operator: VTS

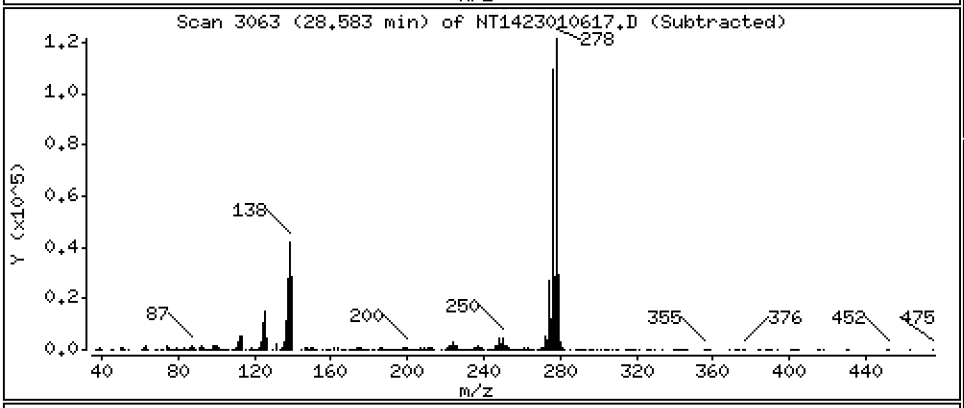
Column phase: ZB-5msi

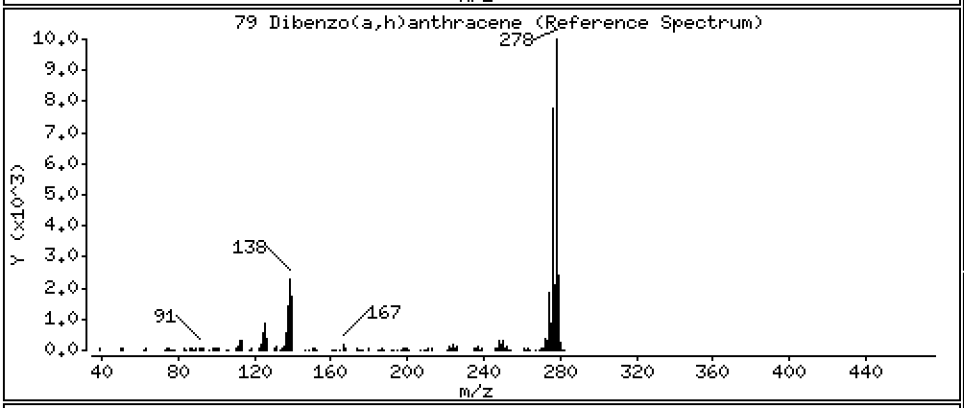
Column diameter: 0.25

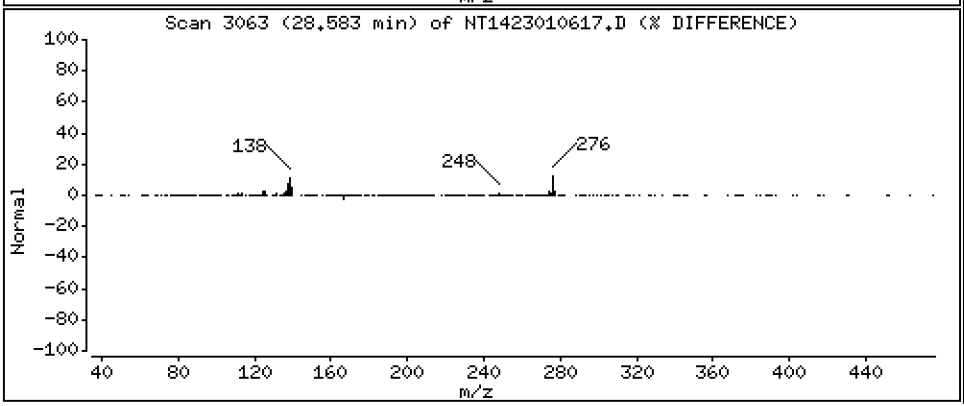
79 Dibenzo(a,h)anthracene

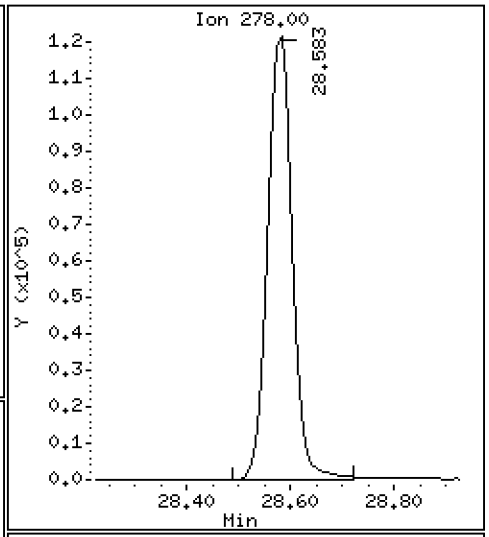
Concentration: 5.058 ug/mL

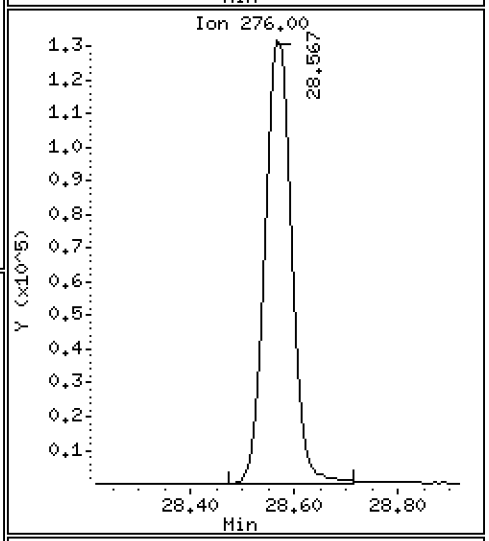


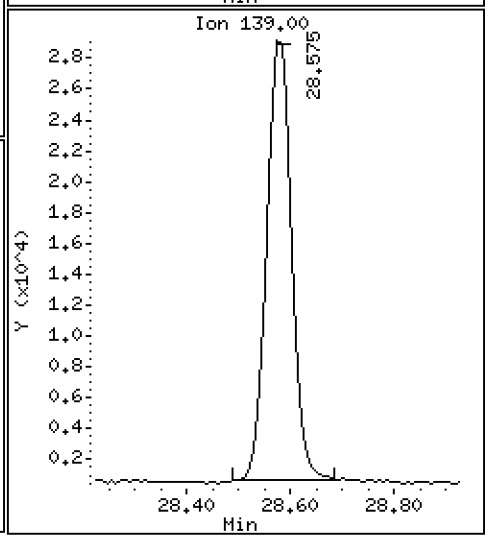












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

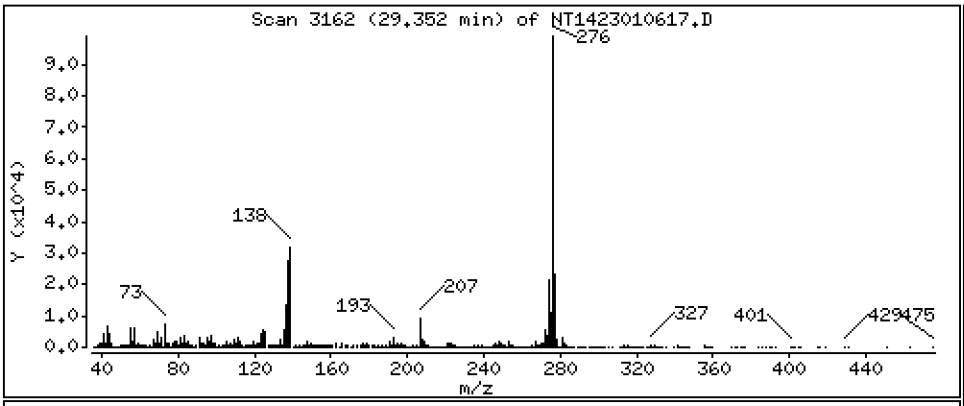
Operator: VTS

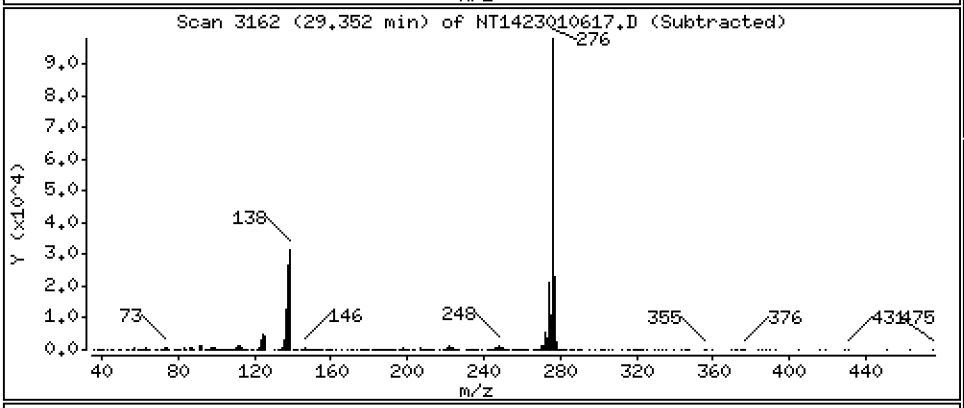
Column phase: ZB-5msi

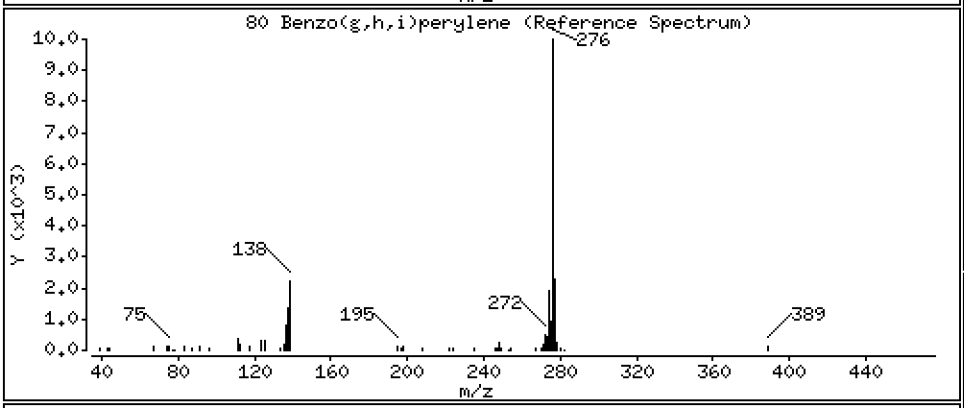
Column diameter: 0.25

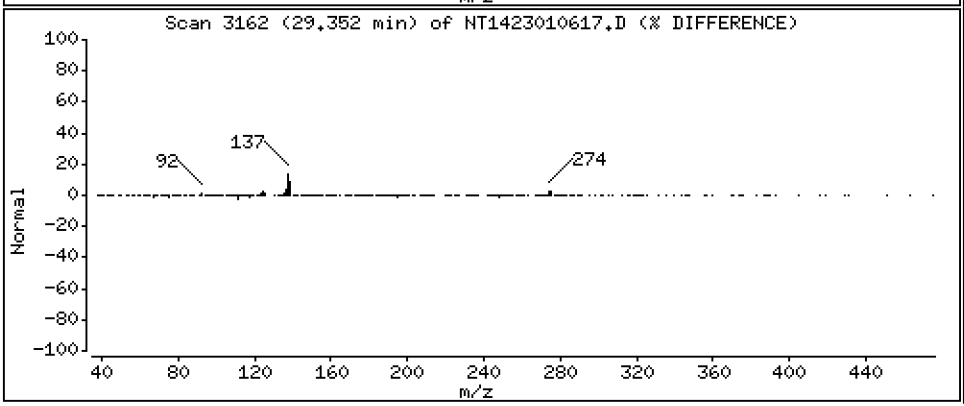
80 Benzo(g,h,i)perylene

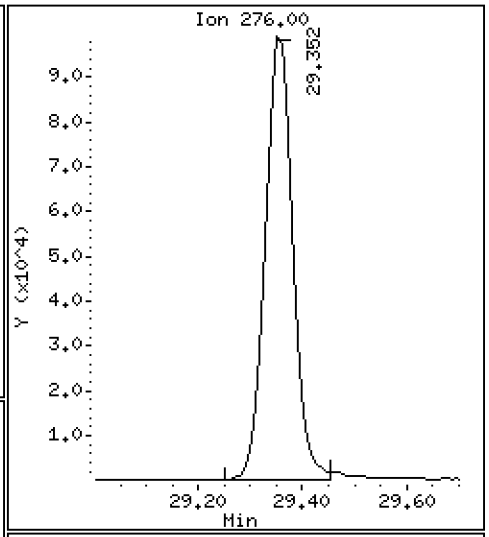
Concentration: 4.691 ug/mL

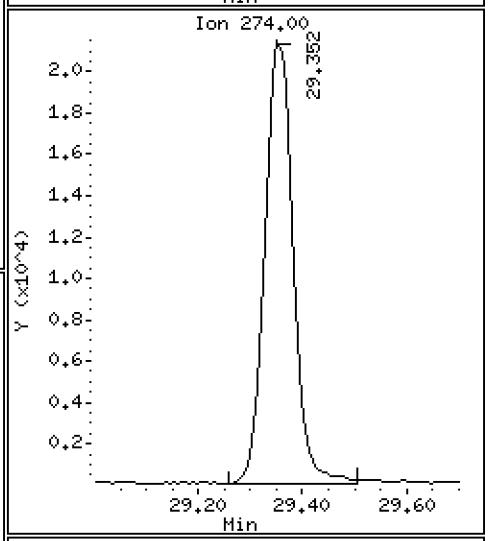


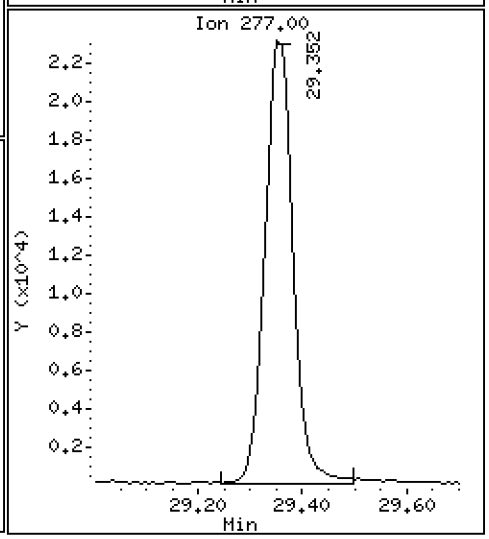












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

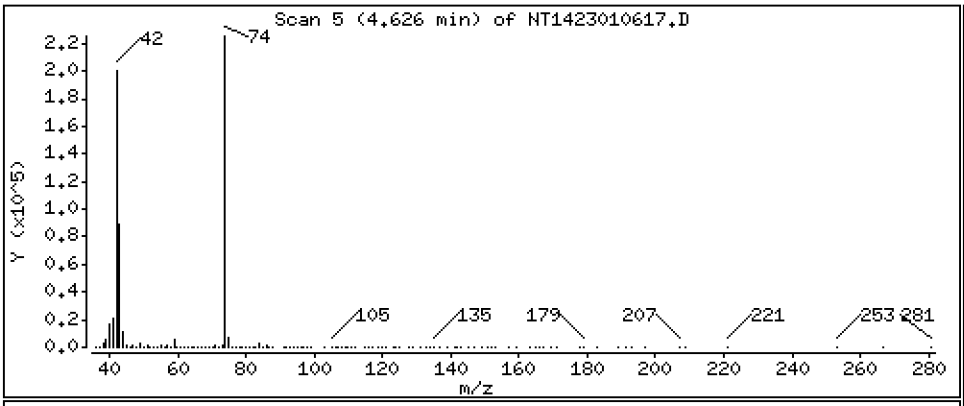
Operator: VTS

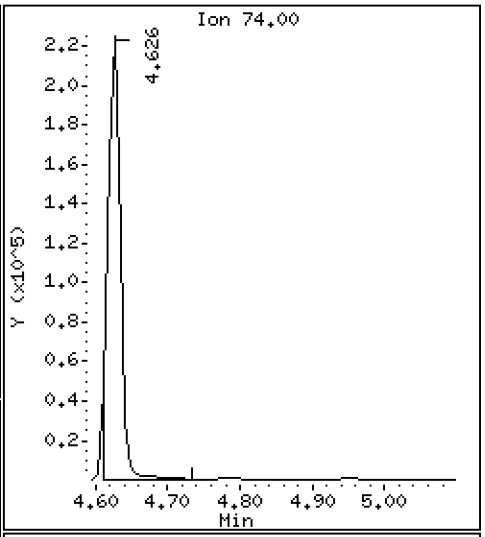
Column phase: ZB-5msi

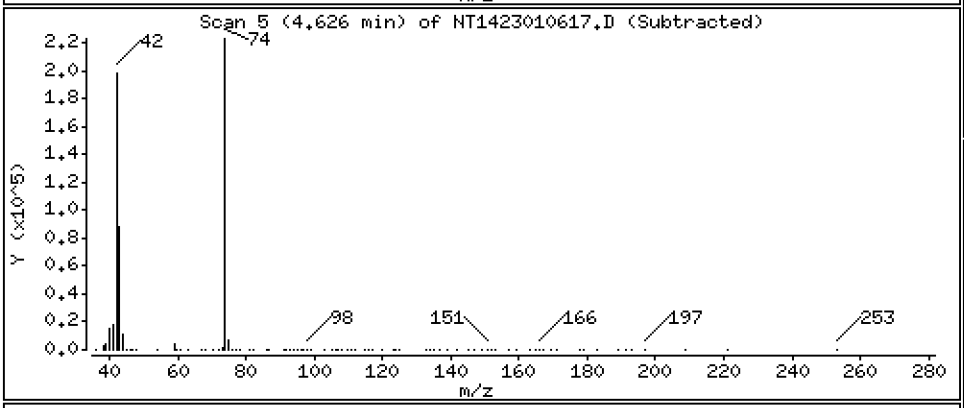
Column diameter: 0.25

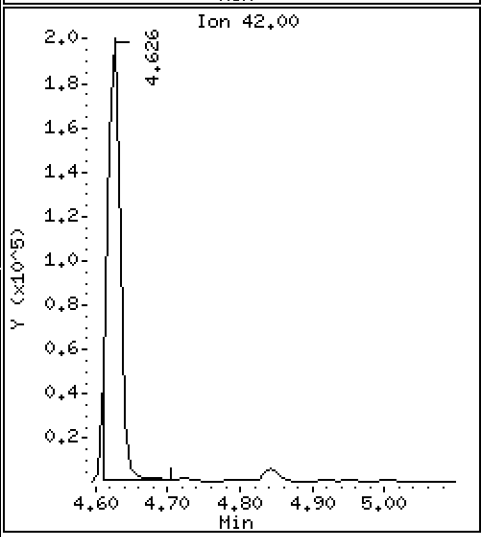
90 N-Nitrosodimethylamine

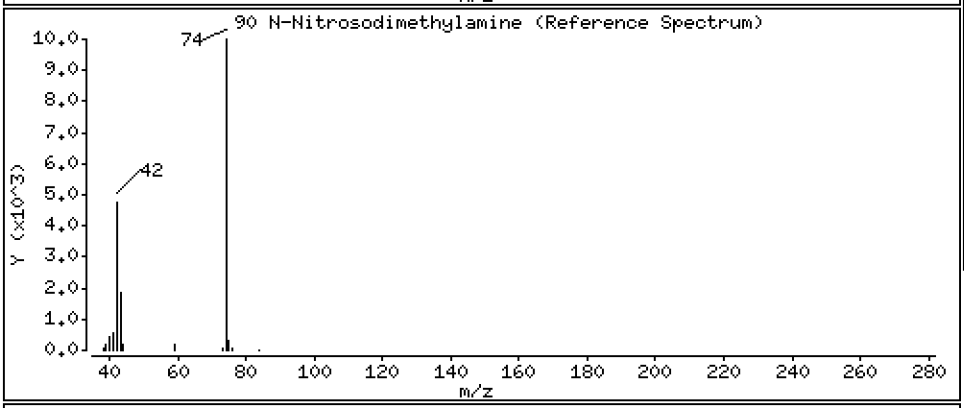
Concentration: 10.88 ug/mL

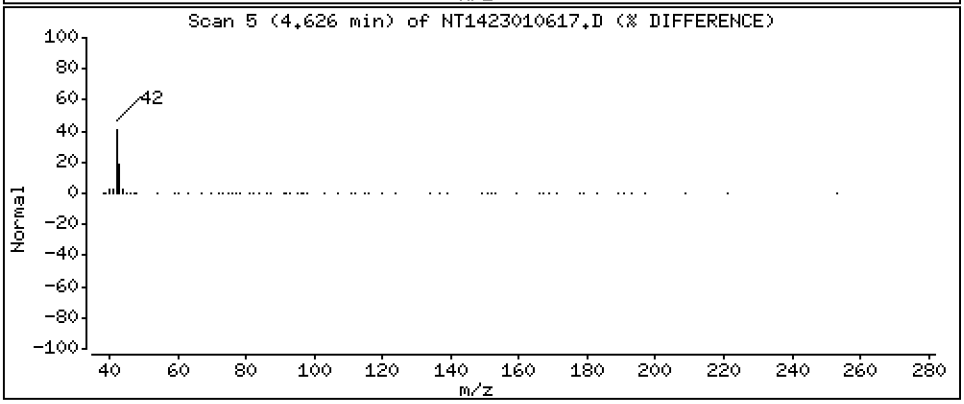












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

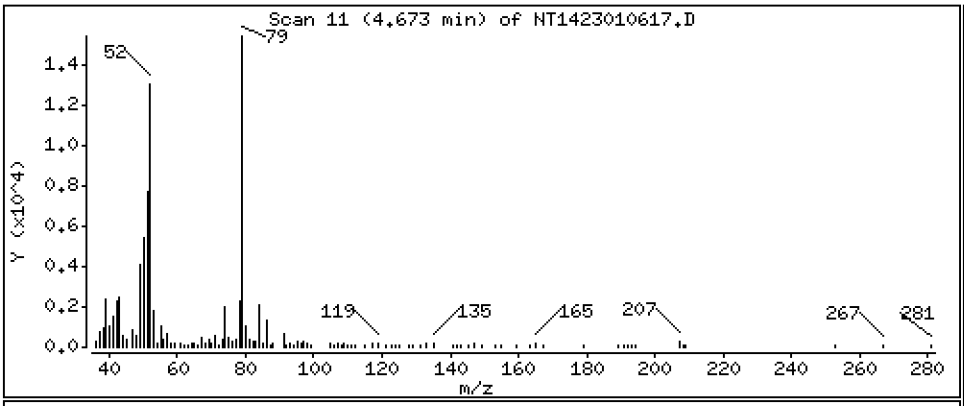
Operator: VTS

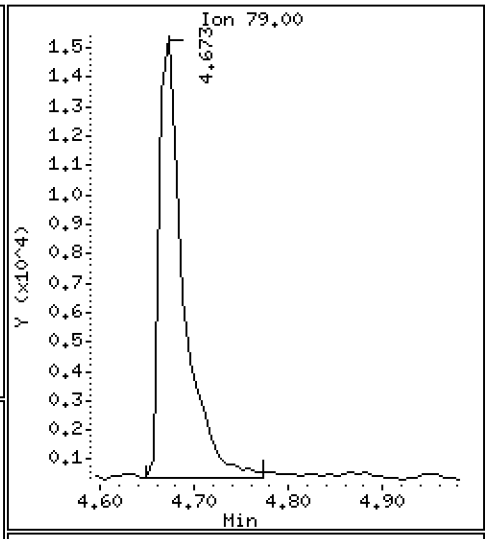
Column phase: ZB-5msi

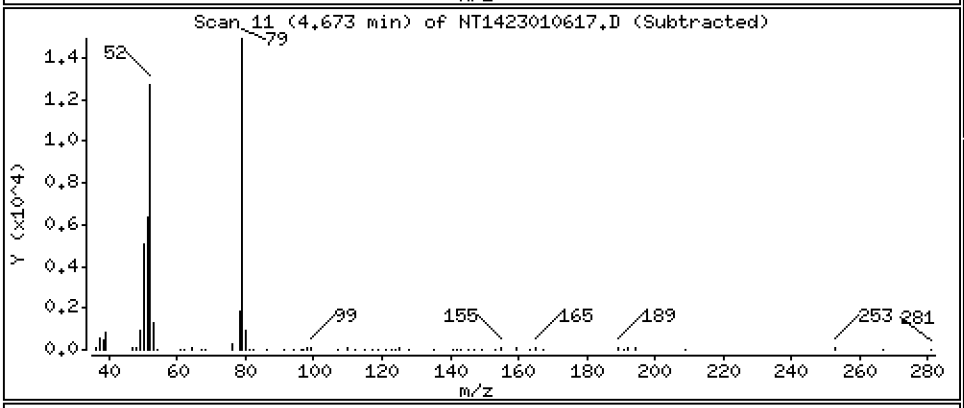
Column diameter: 0.25

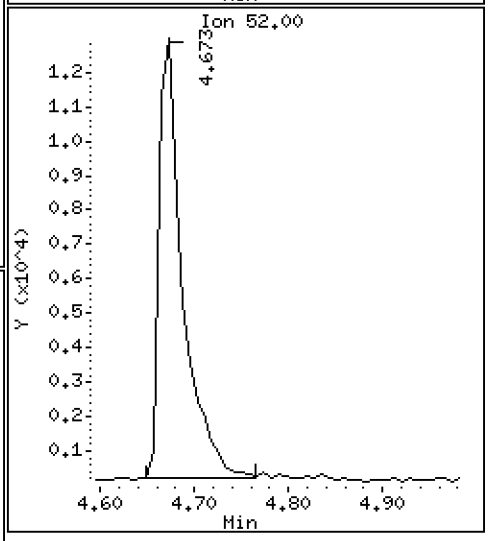
103 Pyridine

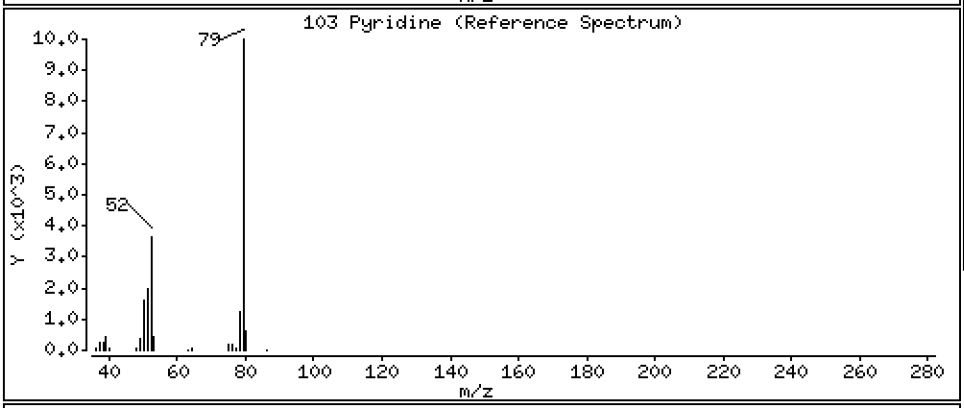
Concentration: 0.3316 ug/mL

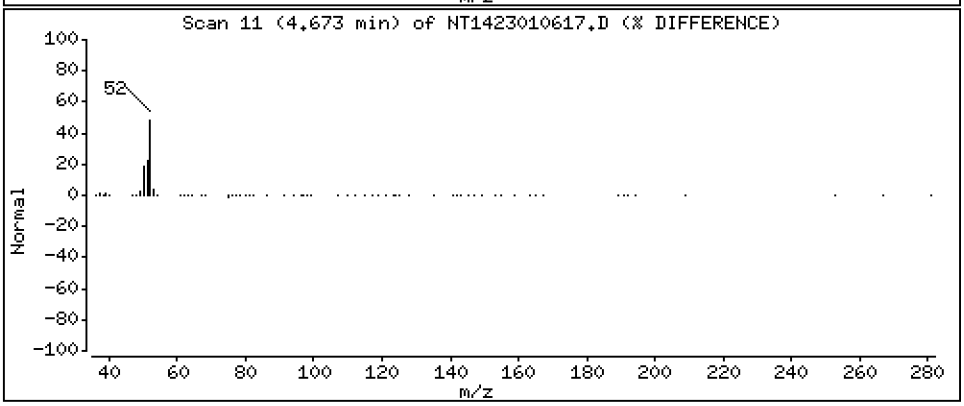












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

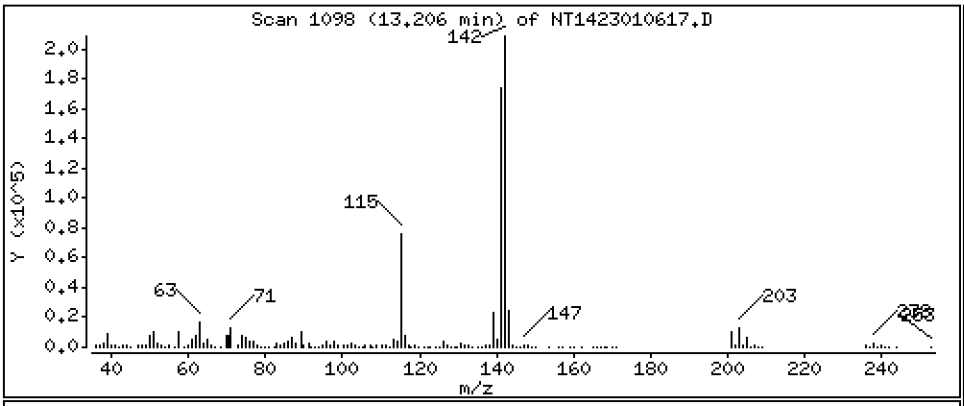
Operator: VTS

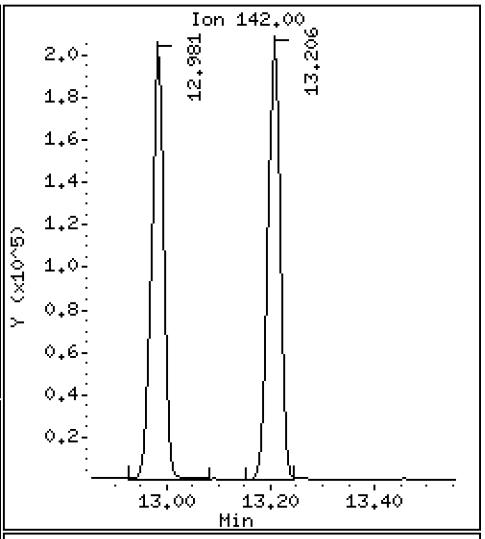
Column phase: ZB-5msi

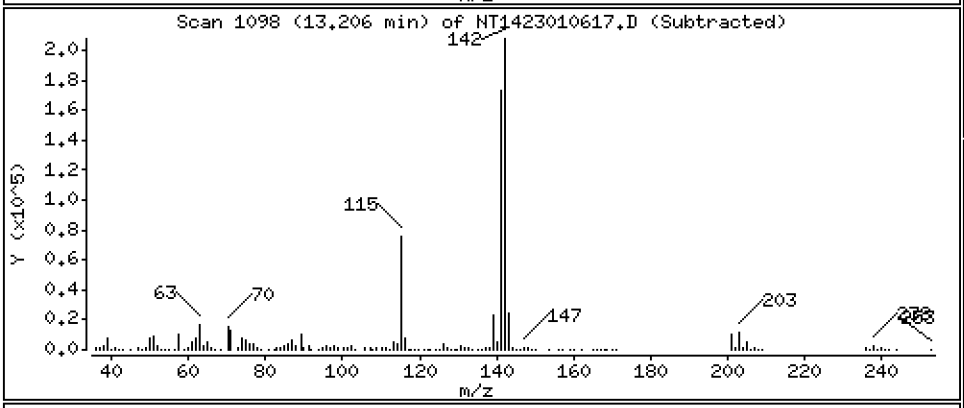
Column diameter: 0.25

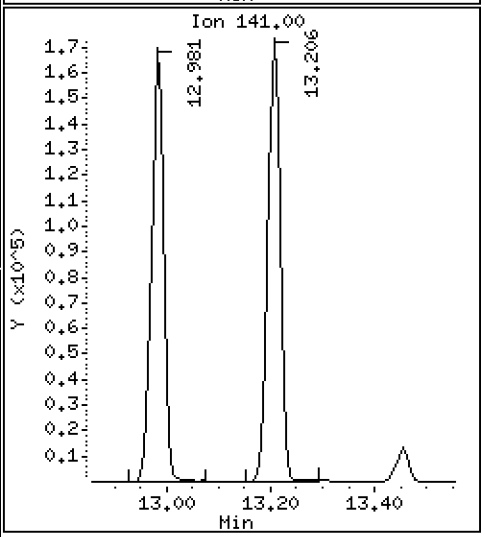
105 1-methylnaphthalene

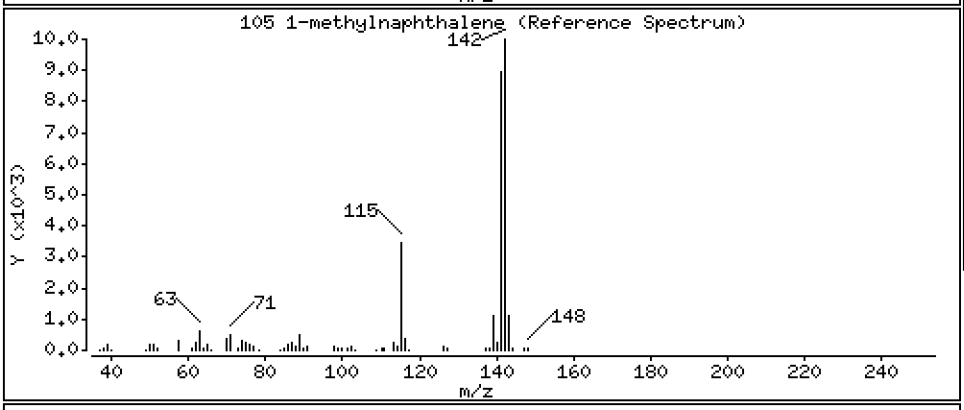
Concentration: 4.288 ug/mL

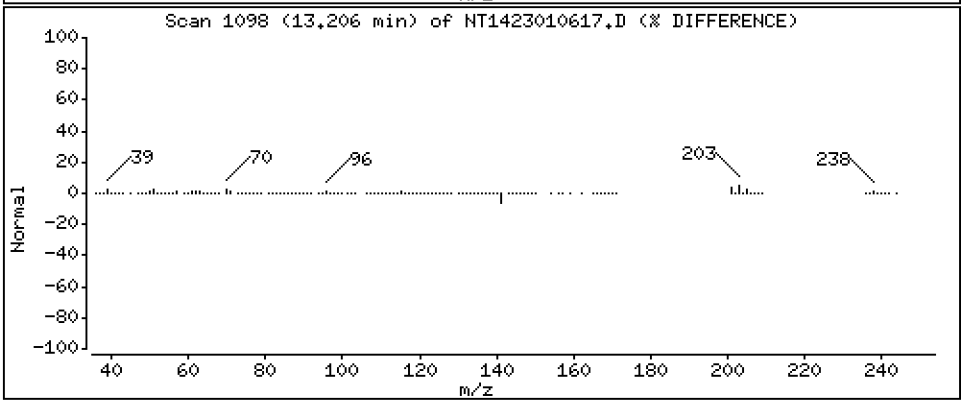












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

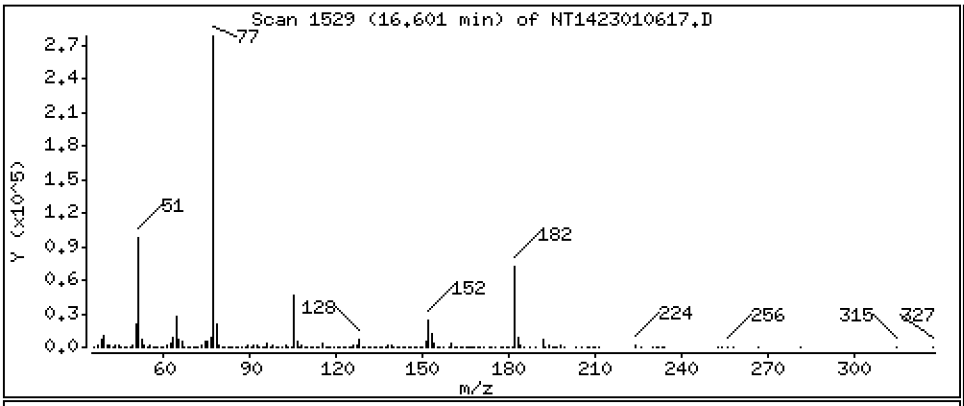
Operator: VTS

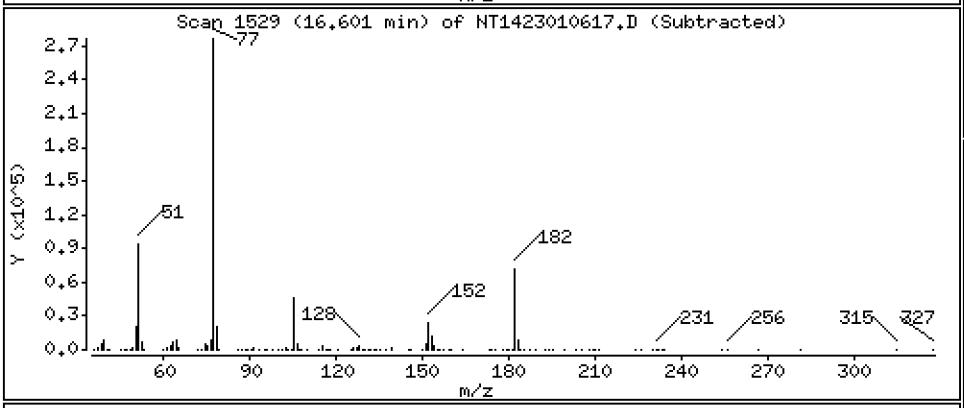
Column phase: ZB-5msi

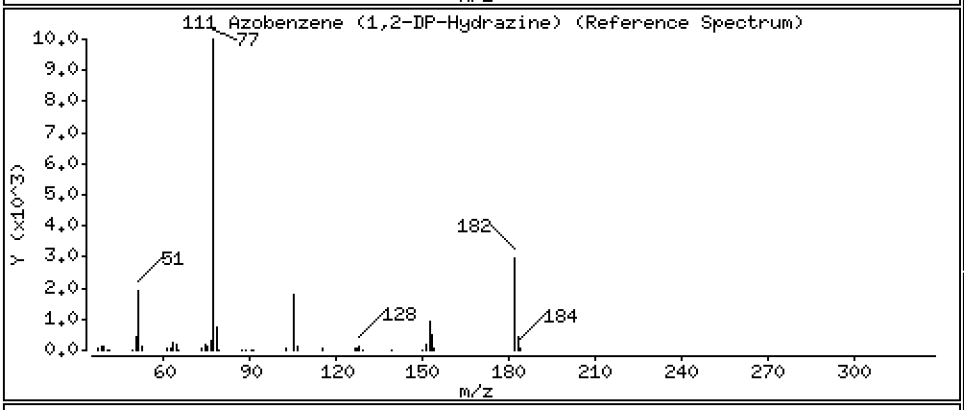
Column diameter: 0.25

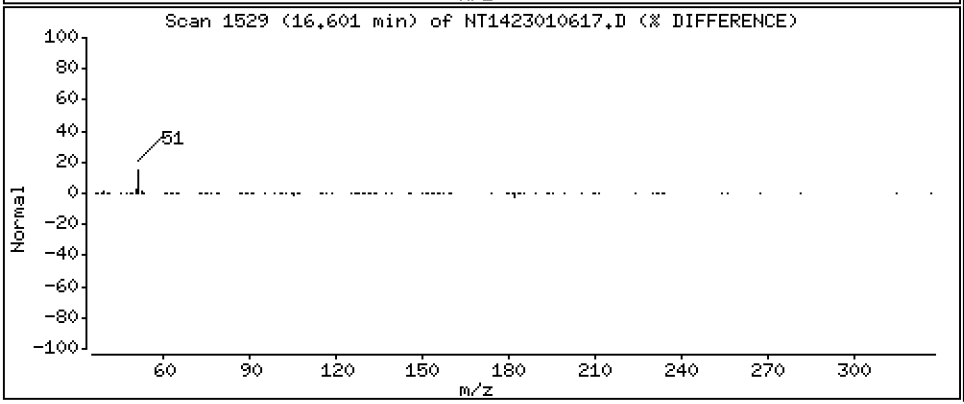
111 Azobenzene (1,2-DP-Hydrazine)

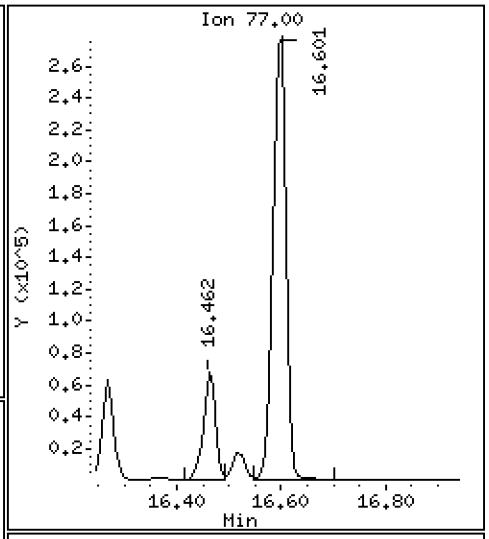
Concentration: 5.682 ug/mL

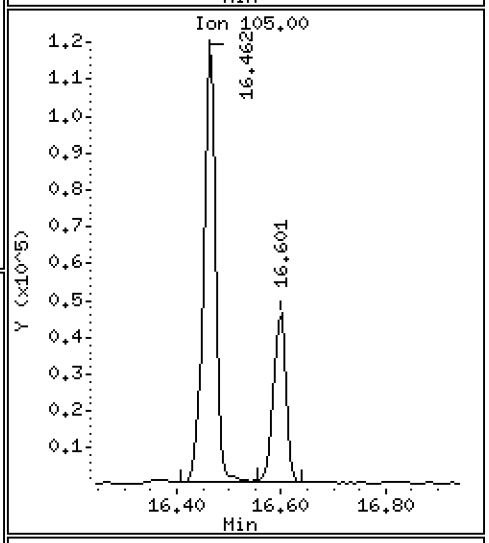


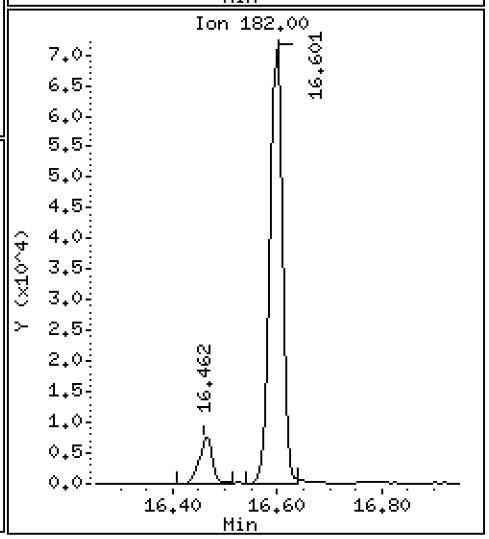












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

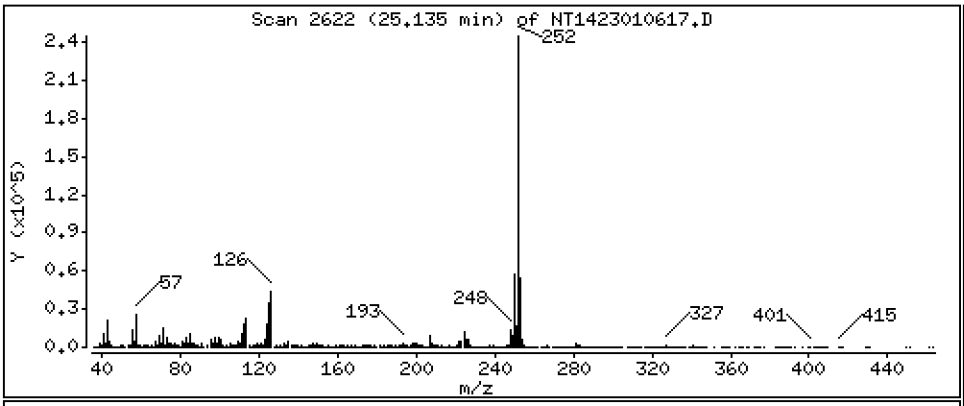
Operator: VTS

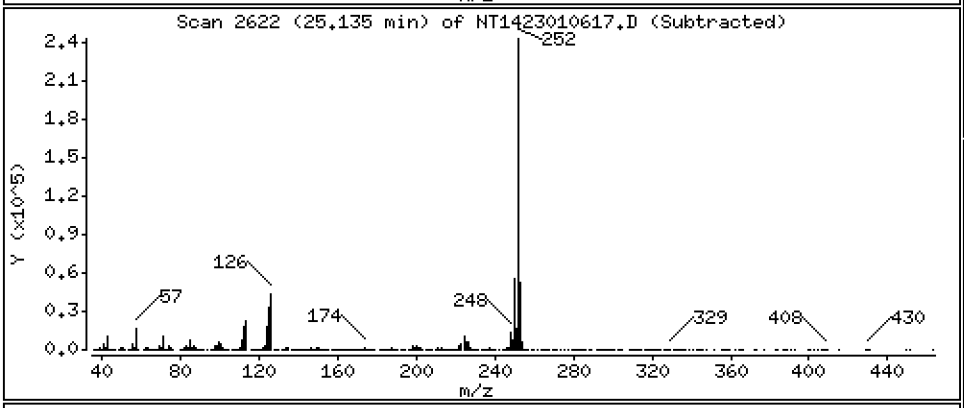
Column phase: ZB-5msi

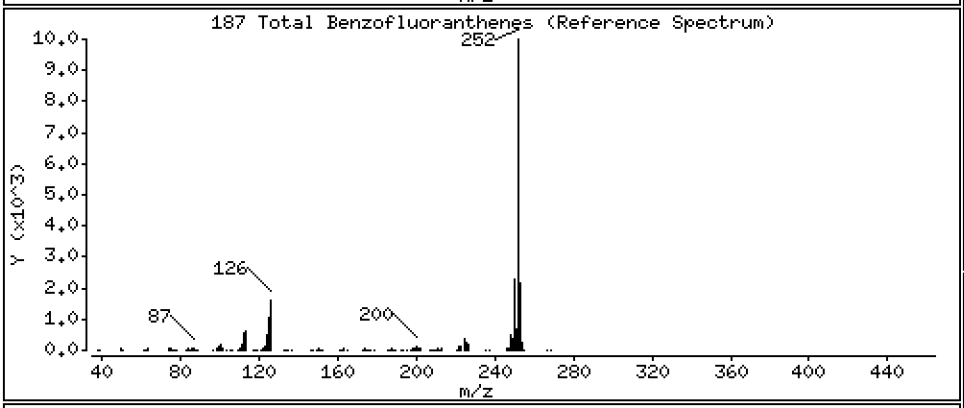
Column diameter: 0.25

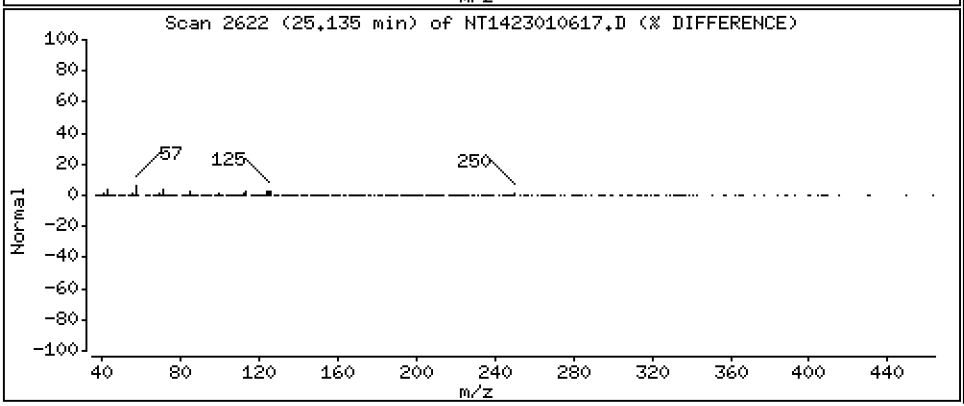
187 Total Benzofluoranthenes

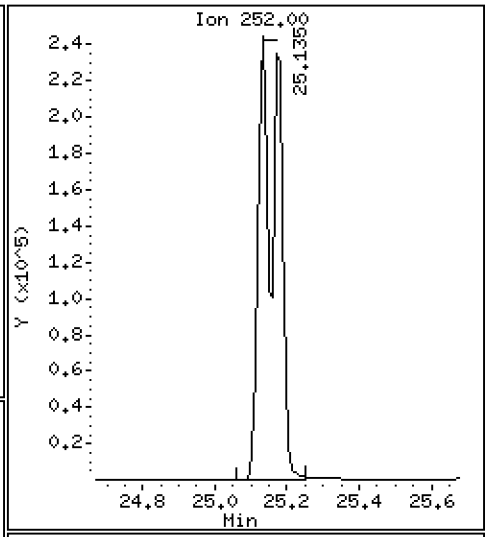
Concentration: 9.490 ug/mL

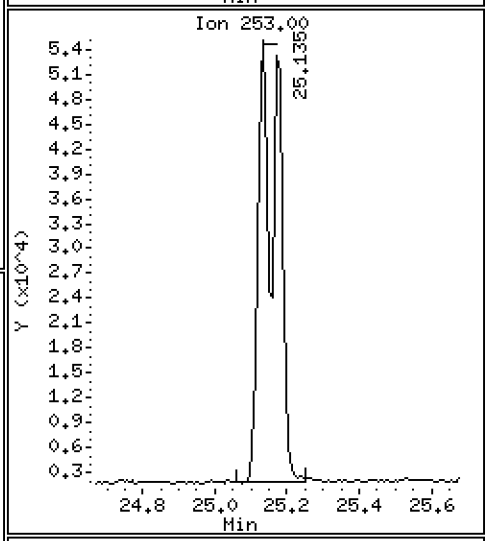


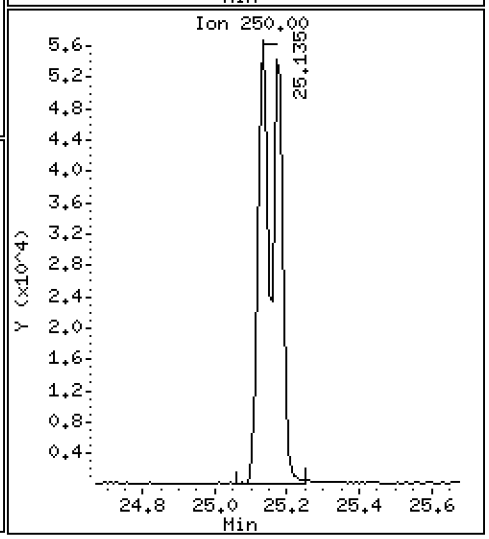












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Date : 06-JAN-2023 21:15

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MS1

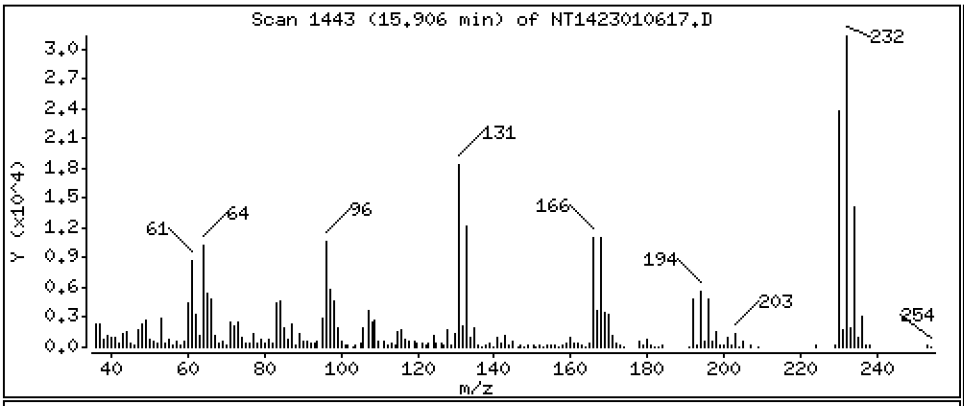
Operator: VTS

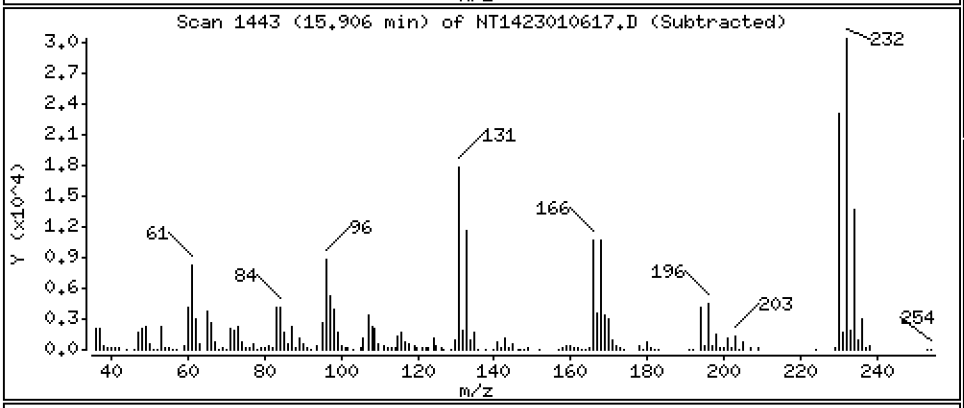
Column phase: ZB-5msi

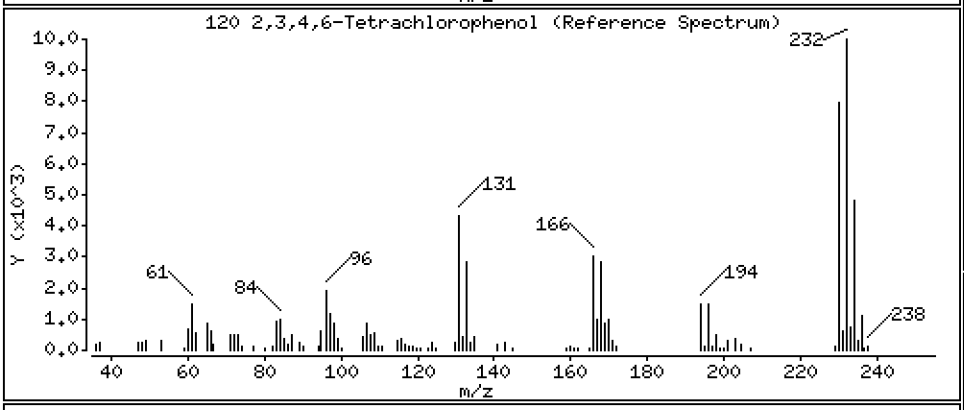
Column diameter: 0.25

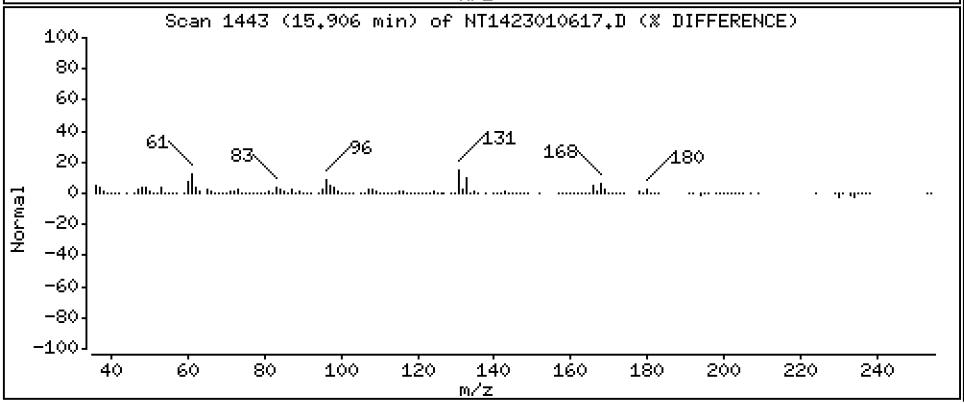
120 2,3,4,6-Tetrachlorophenol

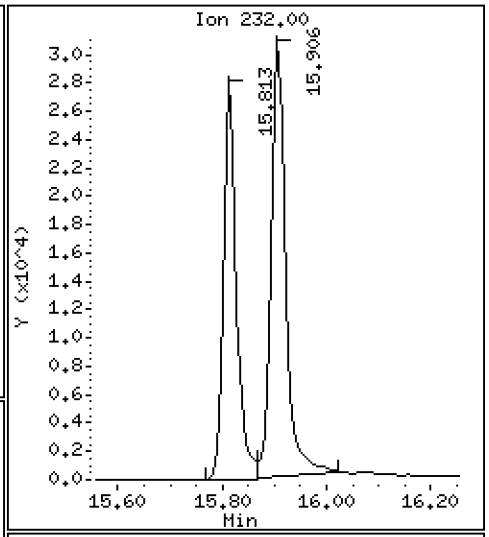
Concentration: 3.590 ug/mL

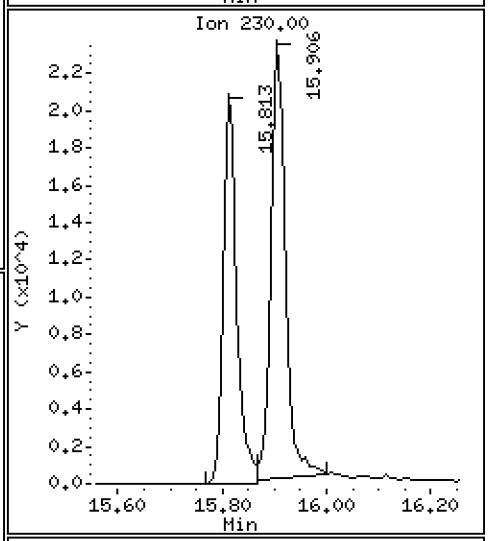


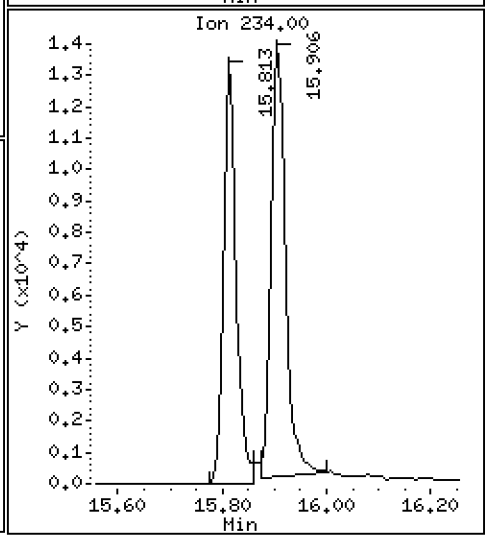












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: BKL0585-MS1
Inj Date : 06-JAN-2023 21:15 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-MS1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 11-Jan-2023 14:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	214605	5.76160	5.762
$	2 Phenol-d5	99	8.411	8.403	(0.931)	286080	6.21493	6.215
	3 Phenol	94	8.434	8.426	(0.933)	202501	3.87159	3.872
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	243223	6.29151	6.292
	4 Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	164450	4.56417	4.564
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	170154	4.00769	4.008
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	176828	3.92768	3.928
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	116263	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	173944	4.07828	4.078
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	107890	4.08326	4.083
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	171445	4.09873	4.099
	11 Benzyl alcohol	108	9.518	9.308	(1.053)	28500	1.22397	1.224(MH)
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	57235	4.71957	4.720
	13 2-Methylphenol	108	9.549	9.541	(1.057)	78249	2.05882	2.059
	17 Hexachloroethane	117	10.023	10.022	(1.109)	67542	4.30569	4.306
	16 N-Nitroso-di-n-propylamine	70	9.867	9.867	(1.092)	114972	4.96584	4.966
	15 4-Methylphenol	108	9.829	9.813	(1.088)	123762	3.08680	3.087
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	179508	4.96885	4.969
	19 Nitrobenzene	77	10.170	10.170	(0.882)	173483	4.83527	4.835
	20 Isophorone	82	10.620	10.620	(0.921)	328554	7.18503	7.185
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	97849	4.30217	4.302
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	86888	2.32034	2.320
	23 Bis(2-Chloroethoxy)methane	93	11.055	11.054	(0.958)	184861	5.19667	5.197
	24 Benzoic acid	105	11.078	11.062	(0.960)	485015	20.3052	20.31
	25 2,4-Dichlorophenol	162	11.272	11.263	(0.977)	465849	14.7585	14.76
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	162699	4.76702	4.767
*	27 Naphthalene-d8	136	11.535	11.542	(1.000)	427818	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	470513	4.46898	4.469
	29 4-Chloroaniline	127	11.712	11.704	(1.015)	135855	3.12894	3.129
	30 Hexachlorobutadiene	225	11.944	11.951	(1.035)	90131	5.32250	5.323
	31 4-Chloro-3-methylphenol	107	12.695	12.679	(1.101)	477931	16.0449	16.04
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	324233	4.19833	4.198
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	130766	7.95023	7.950

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	277755	15.2938	15.29
35	2,4,5-Trichlorophenol	196	13.693	13.685	(0.903)	332258	15.8516	15.85
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	340090	4.64870	4.649
37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	287665	4.62211	4.622
38	2-Nitroaniline	65	14.242	14.234	(0.939)	341831	20.8912	20.89
39	Dimethylphthalate	163	14.676	14.668	(0.967)	323587	5.27333	5.273
40	Acenaphthylene	152	14.854	14.853	(0.979)	458616	4.83276	4.833
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	260575	18.8164	18.82
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	217589	4.00000	
43	3-Nitroaniline	138	15.094	15.093	(0.995)	184701	10.9735	10.97
44	Acenaphthene	153	15.233	15.232	(1.004)	288706	4.90507	4.905
45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	233351	18.9807	18.98
46	Dibenzofuran	168	15.565	15.565	(1.026)	396277	4.48964	4.490
47	4-Nitrophenol	109	15.442	15.426	(1.018)	144731	17.2473	17.25
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	345242	18.1705	18.17
50	Diethylphthalate	149	16.137	16.137	(1.064)	516070	6.18747	6.187
49	Fluorene	166	16.284	16.276	(1.073)	432983	4.61125	4.611
51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	196273	4.26959	4.270
52	4-Nitroaniline	138	16.369	16.361	(1.079)	277159	13.2549	13.25
53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	444690	26.8454	26.85
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	201527	3.16710	3.167
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	63236	6.00920	6.009
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	110529	4.58726	4.587
57	Hexachlorobenzene	284	17.596	17.595	(0.966)	112568	4.25726	4.257
58	Pentachlorophenol	266	17.960	17.952	(0.986)	101750	8.50926	8.509
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	370821	4.00000	
60	Phenanthrene	178	18.269	18.261	(1.003)	454111	4.69685	4.697
61	Anthracene	178	18.362	18.354	(1.008)	381121	4.12919	4.129
62	Carbazole	167	18.687	18.687	(1.026)	396497	4.44362	4.444
63	Di-n-butylphthalate	149	19.492	19.484	(1.070)	607005	5.74417	5.744
64	Fluoranthene	202	20.660	20.652	(0.888)	481452	5.42255	5.423
65	Pyrene	202	21.085	21.077	(0.906)	491957	5.26991	5.270
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	374134	5.65221	5.652
67	Butylbenzylphthalate	149	22.285	22.285	(0.957)	243833	6.75761	6.758
68	Benzo(a)anthracene	228	23.246	23.245	(0.999)	427666	5.11974	5.120
* 69	Chrysene-d12	240	23.276	23.268	(1.000)	275749	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	49067	1.91882	1.919
71	Chrysene	228	23.315	23.315	(1.002)	424568	5.38084	5.381
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	369155	5.93783	5.938
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	559797	4.00000	
73	Di-n-octylphthalate	149	24.314	24.306	(1.001)	661025	4.91925	4.919
74	Benzo(b)fluoranthene	252	25.134	25.126	(0.970)	487082	5.02284	5.023
75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	447591	4.53489	4.535
76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	393576	4.88223	4.882
* 77	Perylene-d12	264	25.901	25.901	(1.000)	308566	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.567	28.567	(1.103)	465046	5.07470	5.075
79	Dibenzo(a,h)anthracene	278	28.582	28.574	(1.104)	393907	5.05829	5.058
80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	360086	4.69051	4.691
90	N-Nitrosodimethylamine	74	4.626	4.749	(0.512)	278997	10.8760	10.88
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.672	4.633	(0.517)	27031	0.33162	0.3316
105	1-methylnaphthalene	142	13.205	13.205	(1.145)	318194	4.28811	4.288
111	Azobenzene (1,2-DP-Hydrazine)	77	16.600	16.592	(1.094)	459091	5.68162	5.682

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.173	(0.970)	889727	9.49015	9.490
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	56625	3.58969	3.590

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010617.D
Lab Smp Id: BKL0585-MS1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	116263	-13.31
27 Naphthalene-d8	499117	249559	998234	427818	-14.29
42 Acenaphthene-d10	260320	130160	520640	217589	-16.41
59 Phenanthrene-d10	432406	216203	864812	370821	-14.24
69 Chrysene-d12	317887	158944	635774	275749	-13.26
134 Di-n-octylphthala	664061	332031	1328122	559797	-15.70
77 Perylene-d12	313716	156858	627432	308566	-1.64

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	-0.06
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010617.D

Lab ID: BKL0585-MS1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 21:15

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.053	1.030	0.0232	Benzyl alcohol
0.512	0.000	0.5119	N-Nitrosodimethylamine

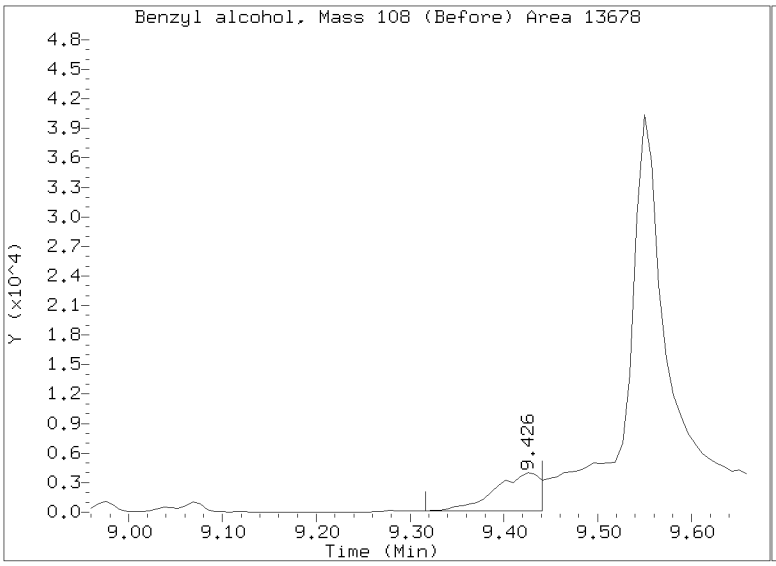
RRT check based on Ccal File: NT1423010602.D

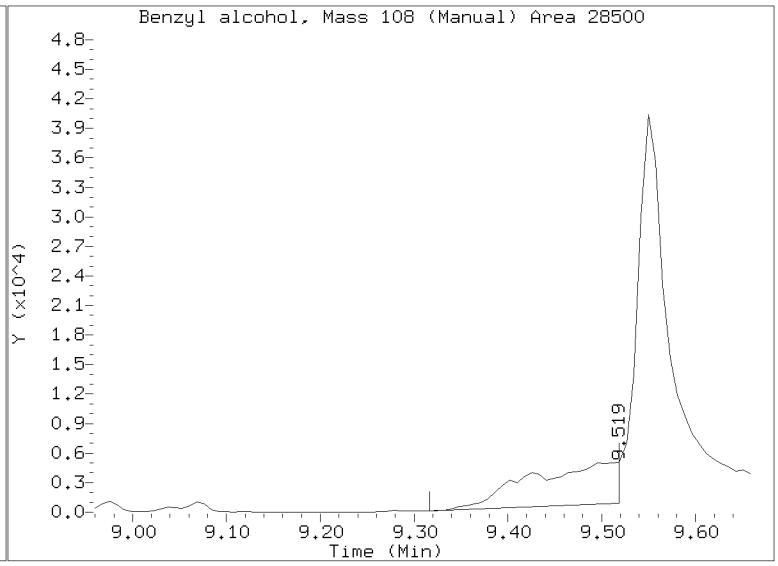
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010617.D
Injection Date: 06-JAN-2023 21:15
Lab ID:BKL0585-MS1 Client ID:
Report Date: 01/11/2023 14:43





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Date : 06-JAN-2023 21:51

Client ID:

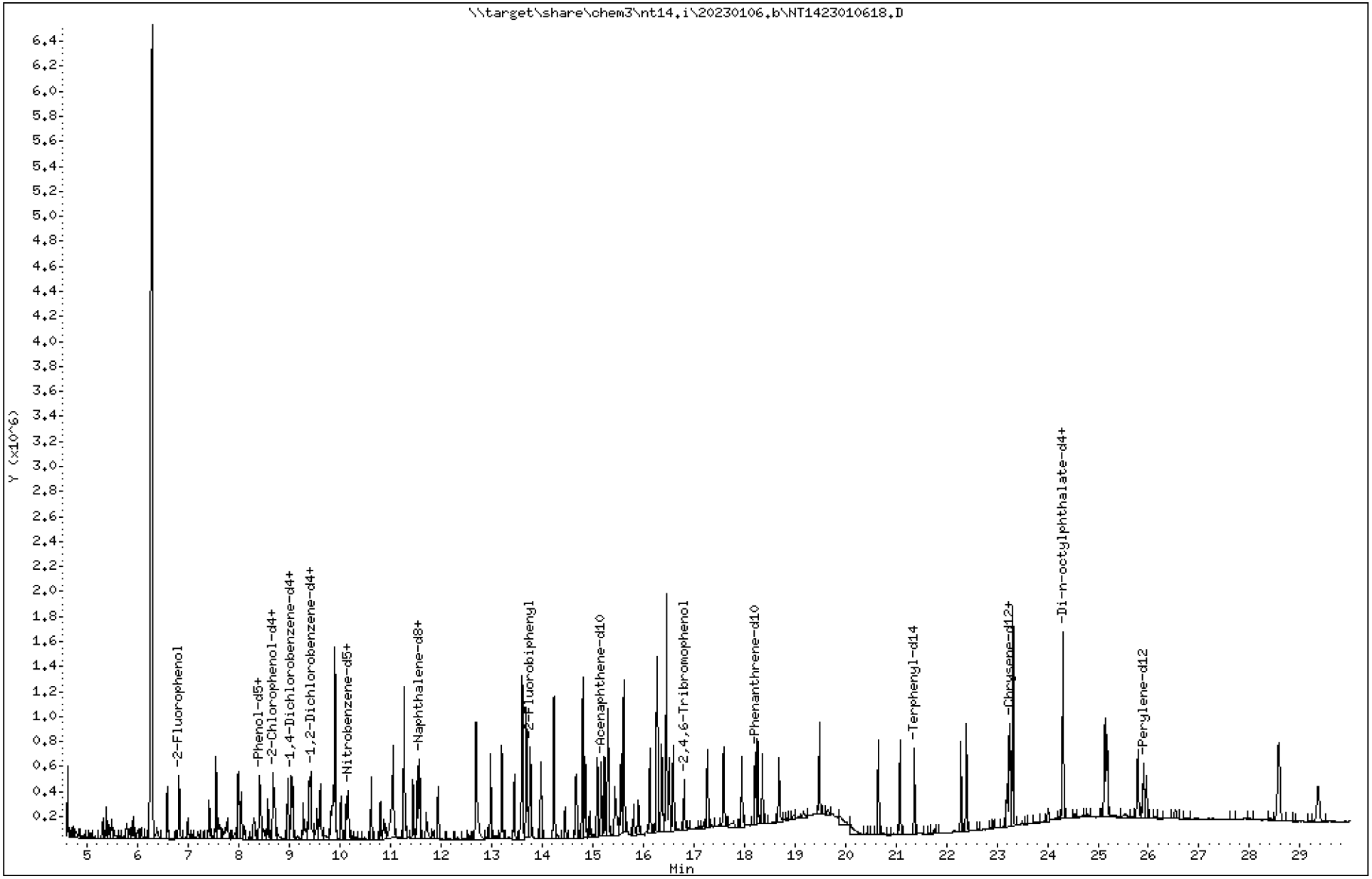
Instrument: nt14.i

Sample Info: BKL0585-MSD1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1192 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010618.D

Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

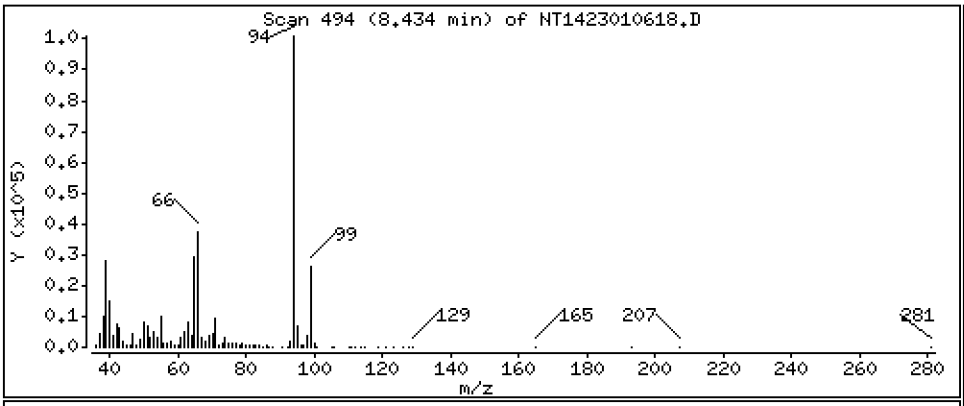
Operator: VTS

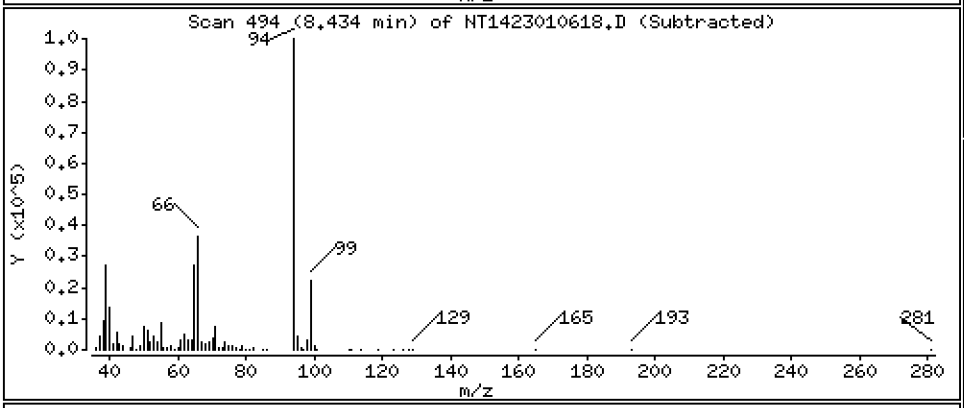
Column phase: ZB-5msi

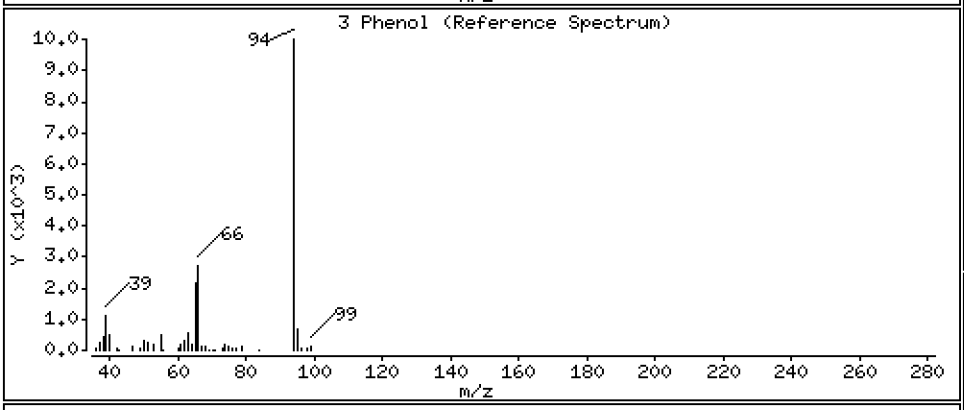
Column diameter: 0.25

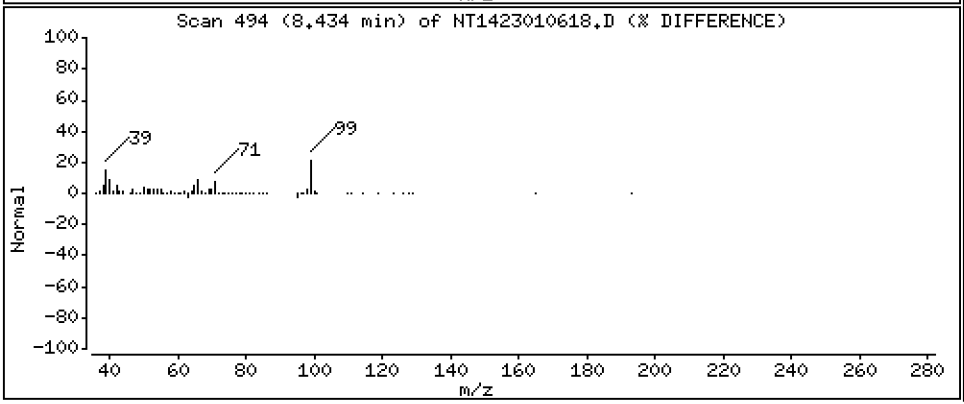
3 Phenol

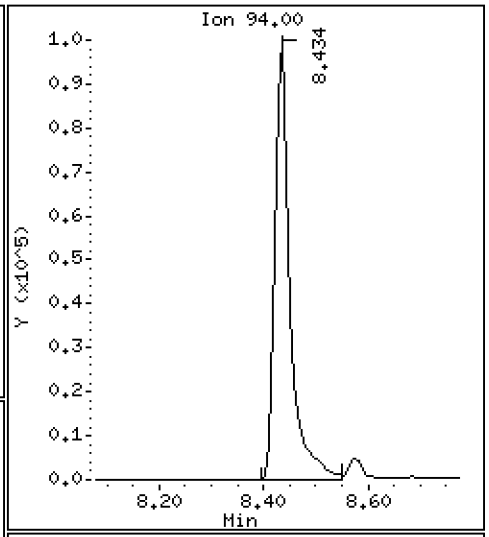
Concentration: 3.772 ug/mL

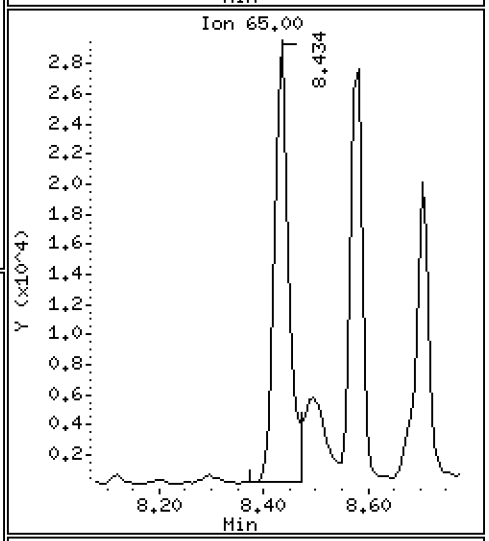


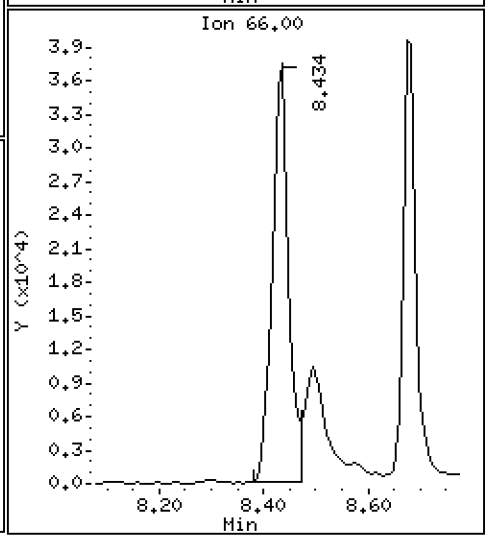












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

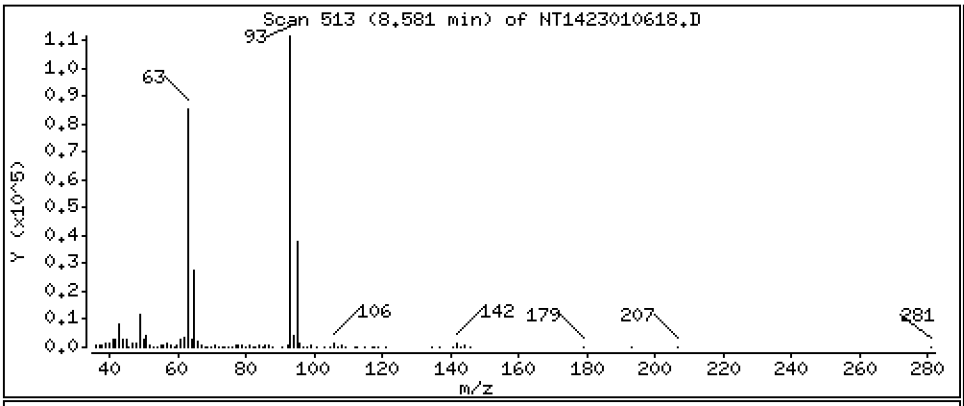
Operator: VTS

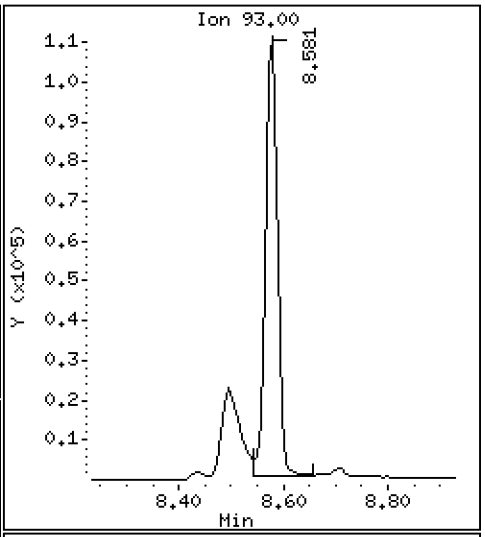
Column phase: ZB-5msi

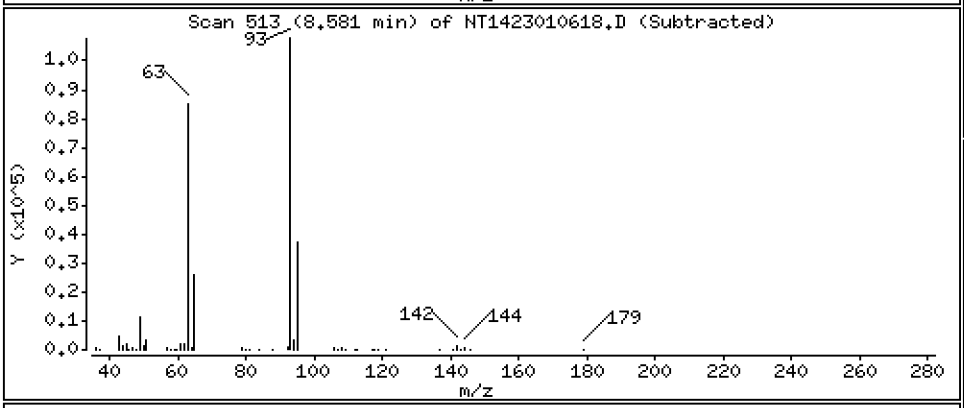
Column diameter: 0.25

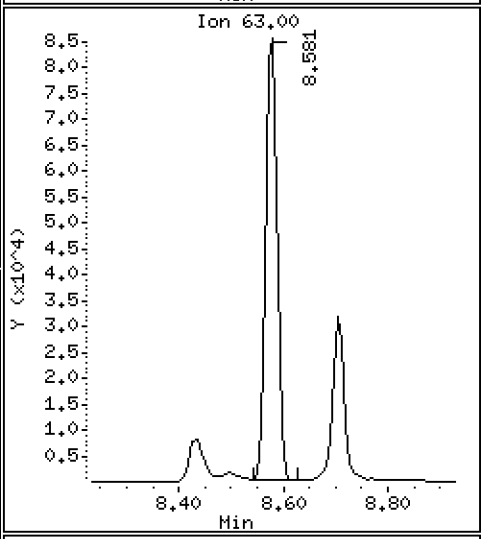
4 Bis(2-Chloroethyl)ether

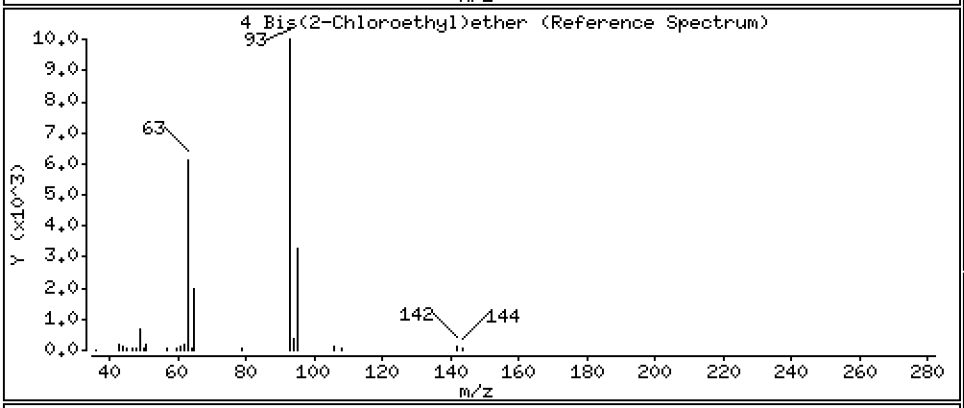
Concentration: 4.677 ug/mL

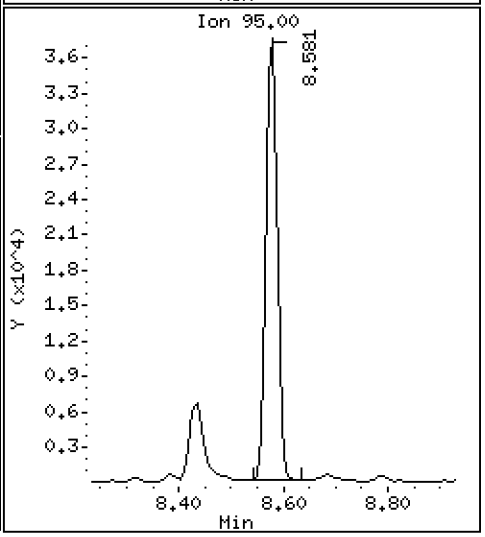


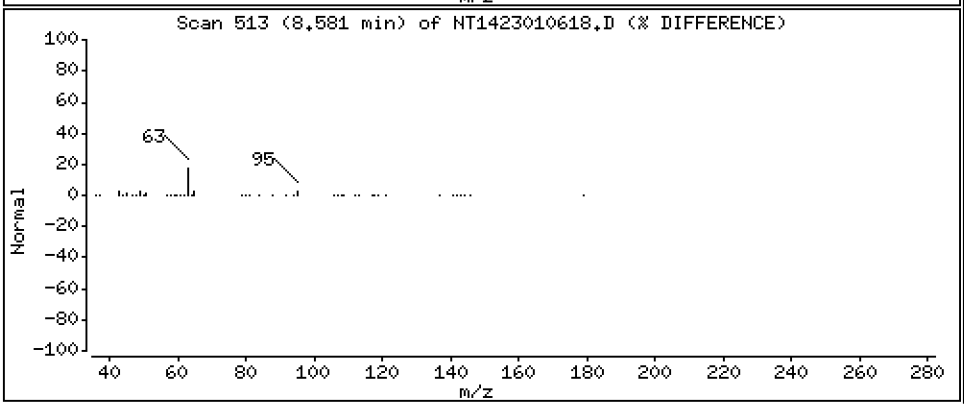












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

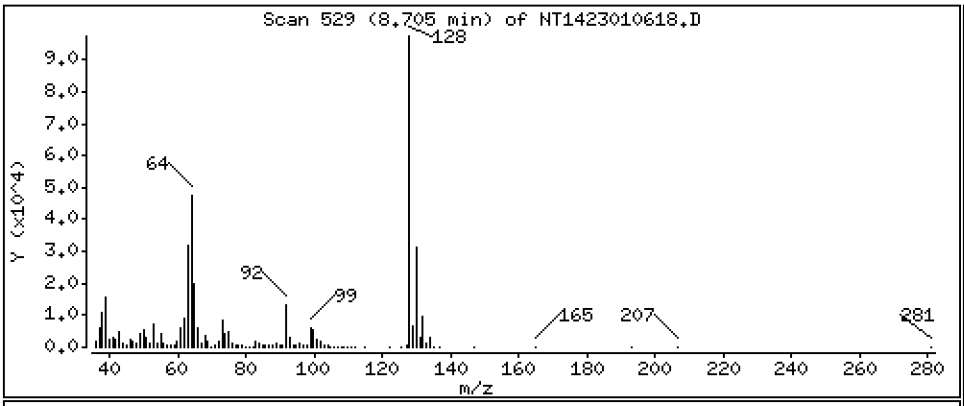
Operator: VTS

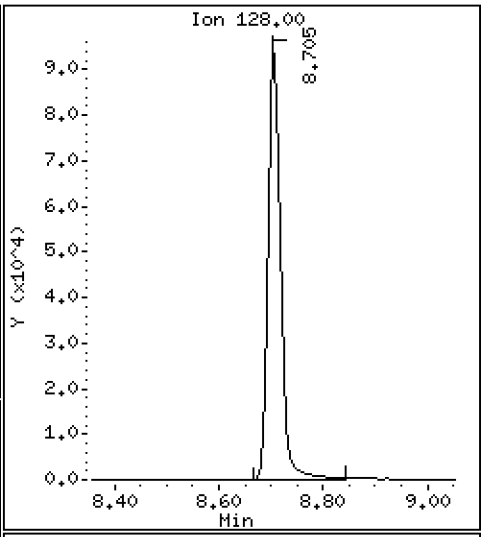
Column phase: ZB-5msi

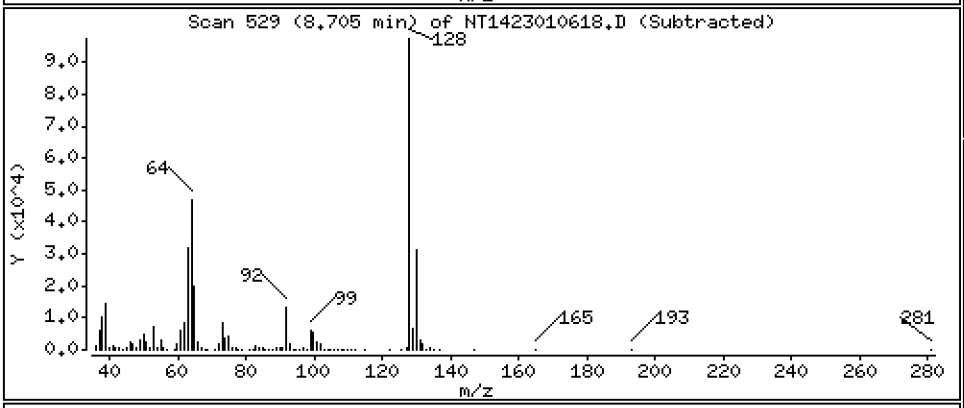
Column diameter: 0.25

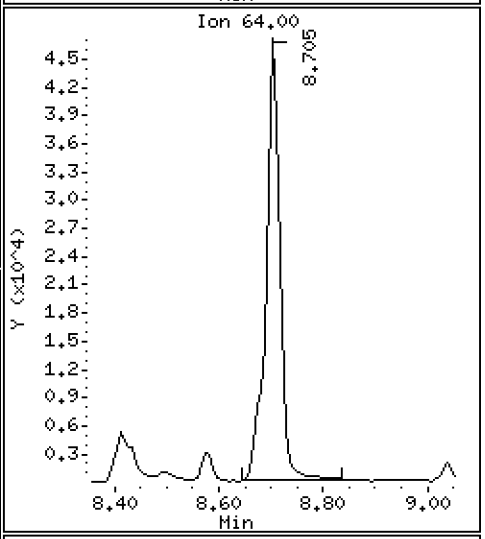
6 2-Chlorophenol

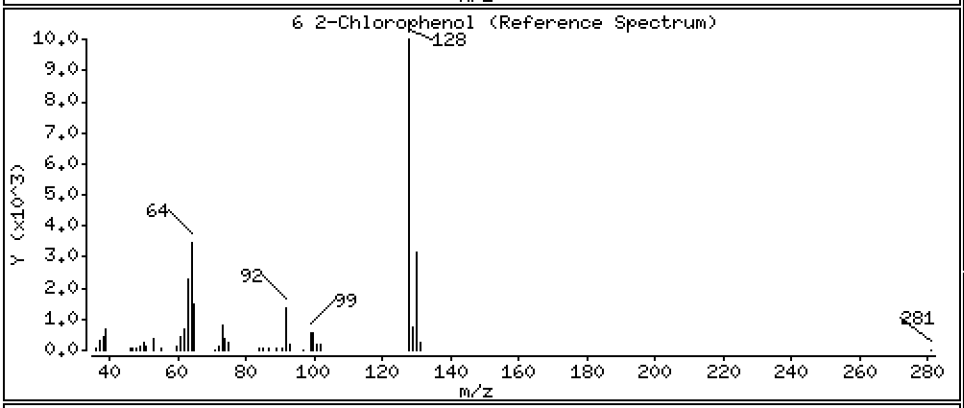
Concentration: 3.657 ug/mL

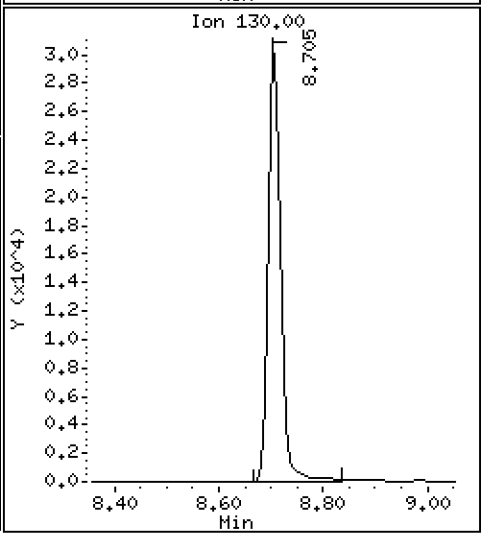


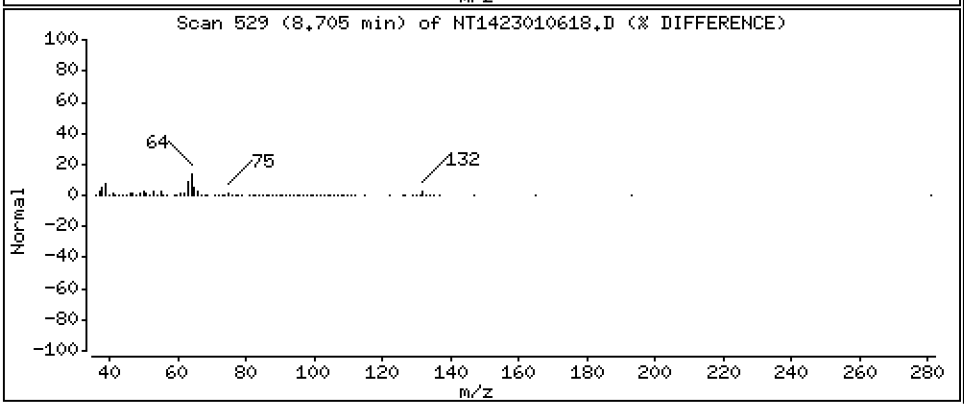












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

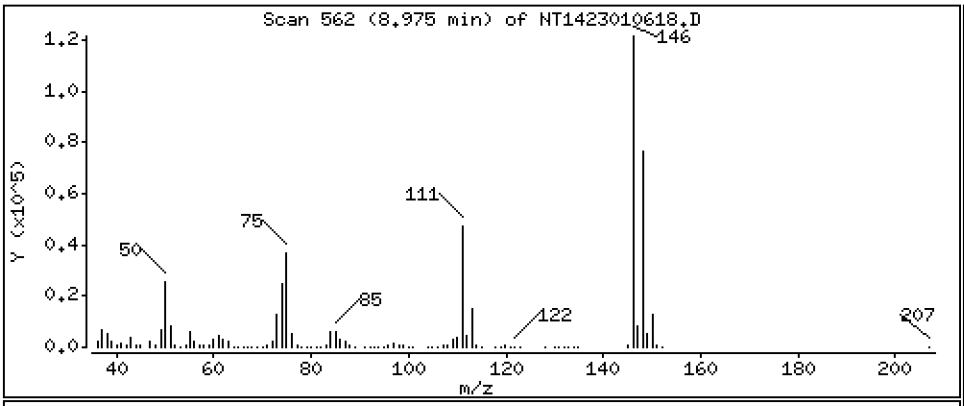
Operator: VTS

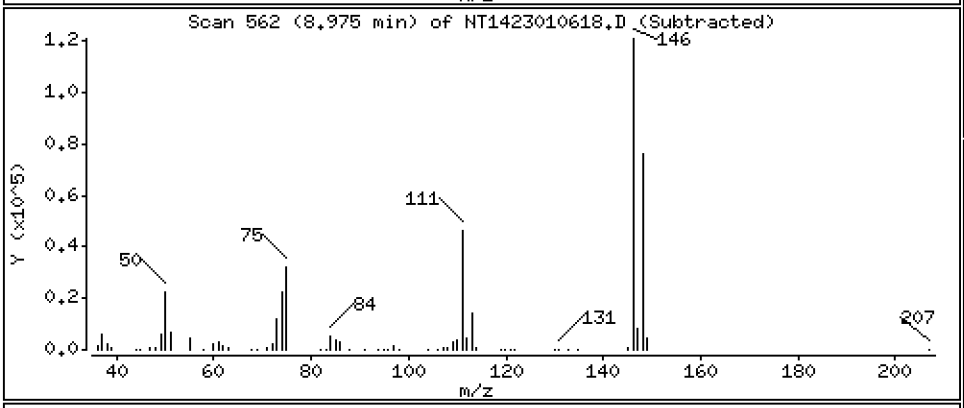
Column phase: ZB-5msi

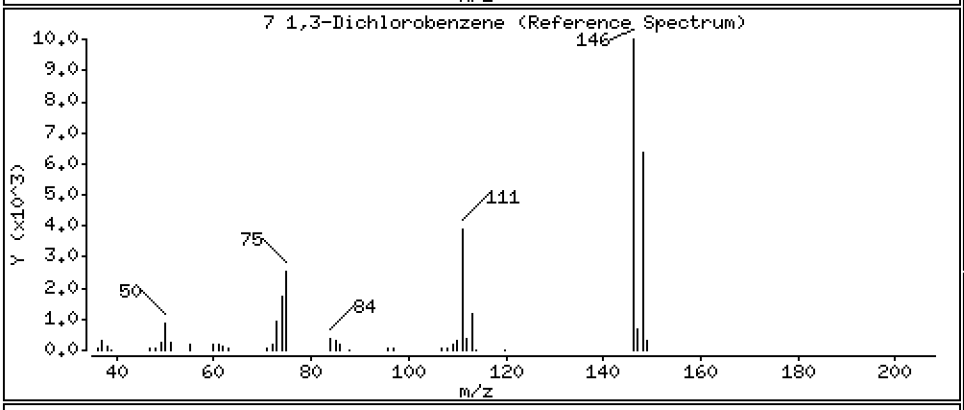
Column diameter: 0.25

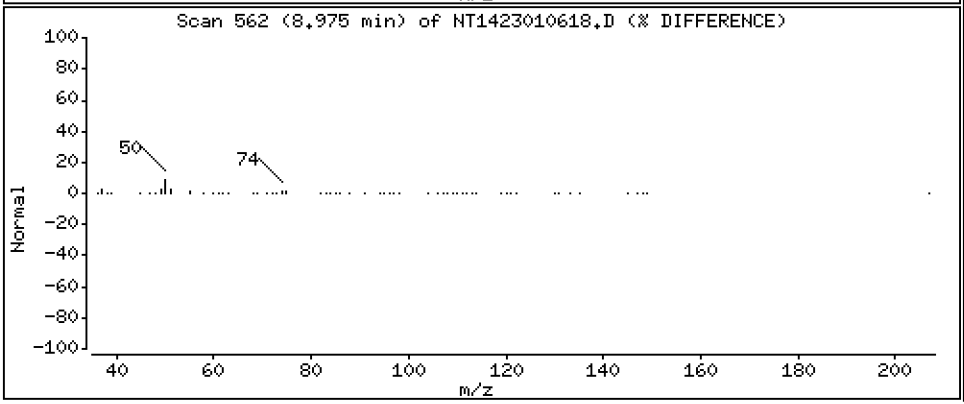
7 1,3-Dichlorobenzene

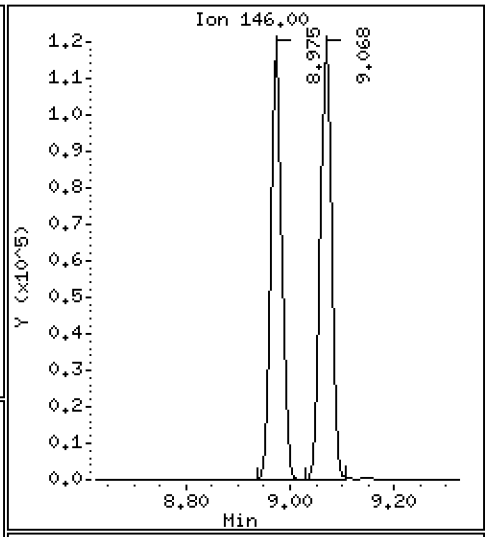
Concentration: 3.855 ug/mL

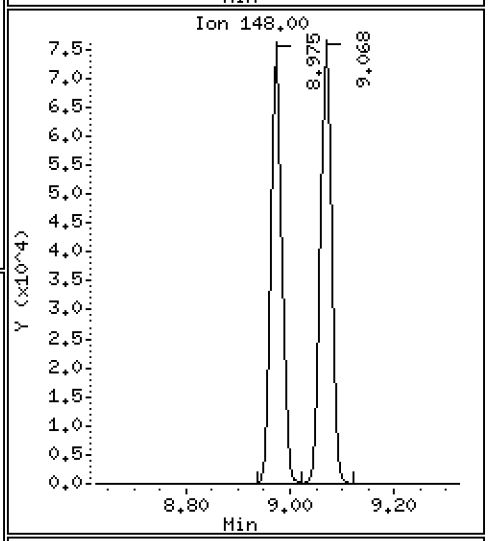


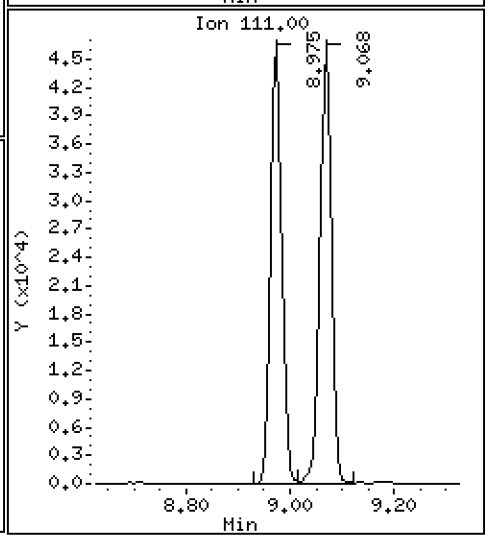












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

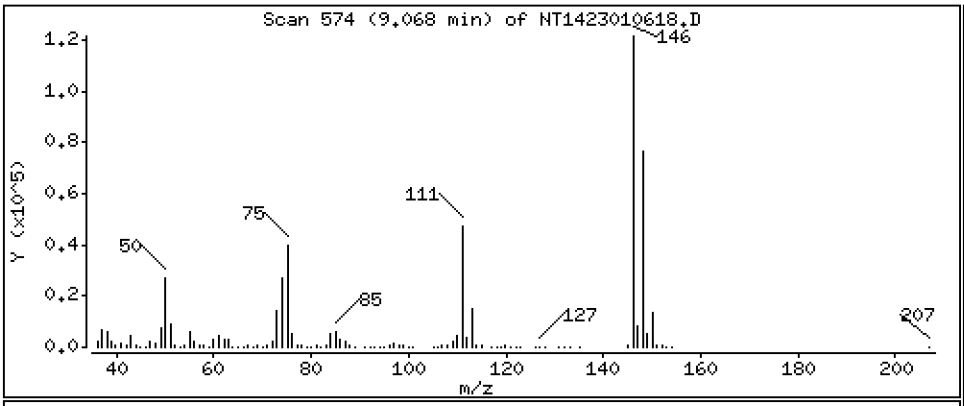
Operator: VTS

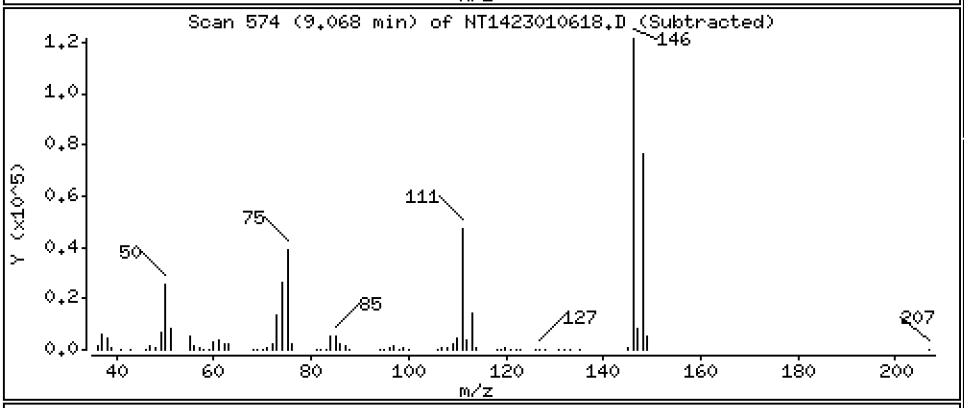
Column phase: ZB-5msi

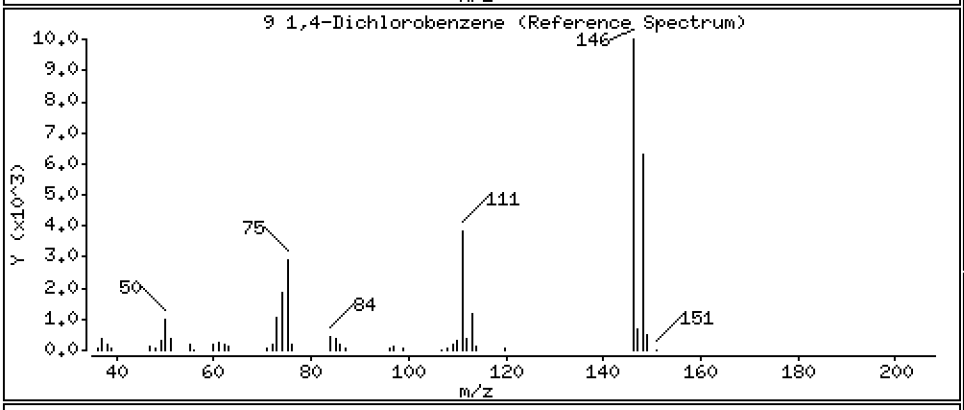
Column diameter: 0.25

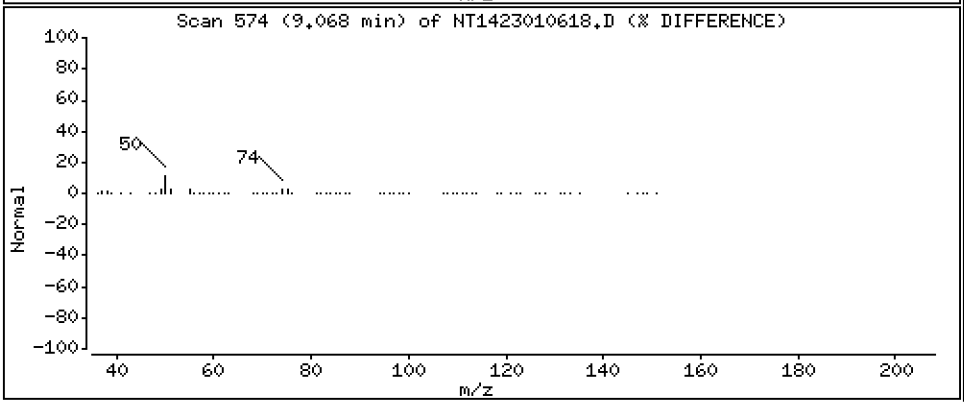
9 1,4-Dichlorobenzene

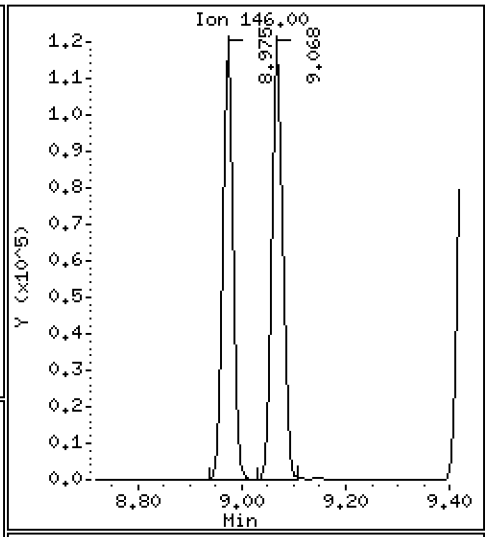
Concentration: 3.999 ug/mL

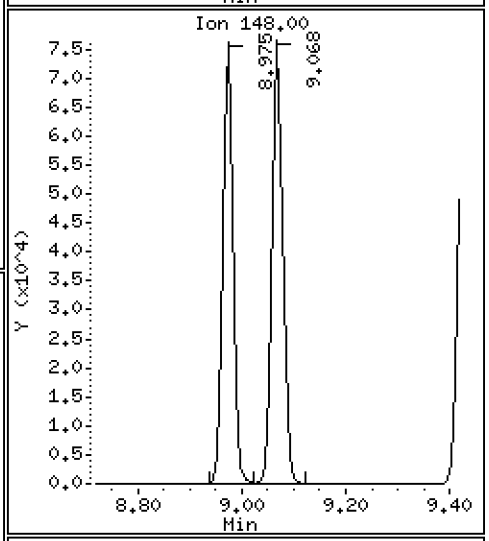


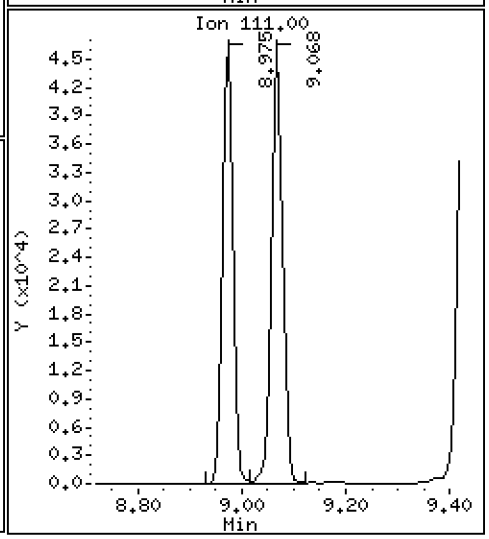












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

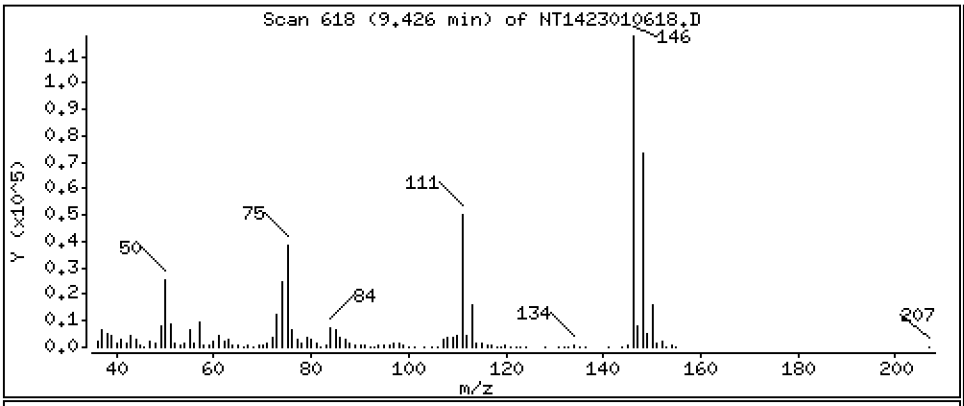
Operator: VTS

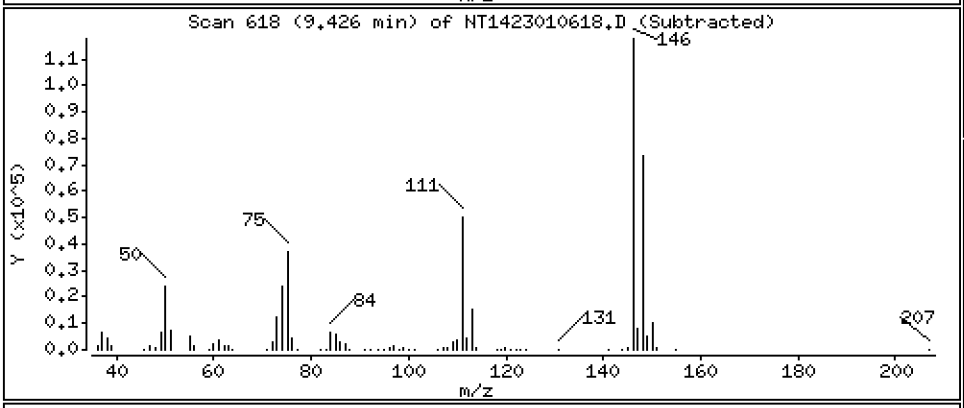
Column phase: ZB-5msi

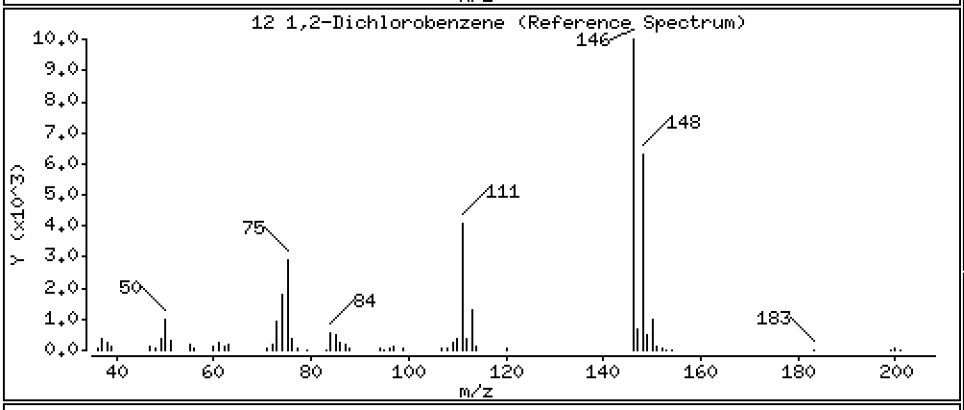
Column diameter: 0.25

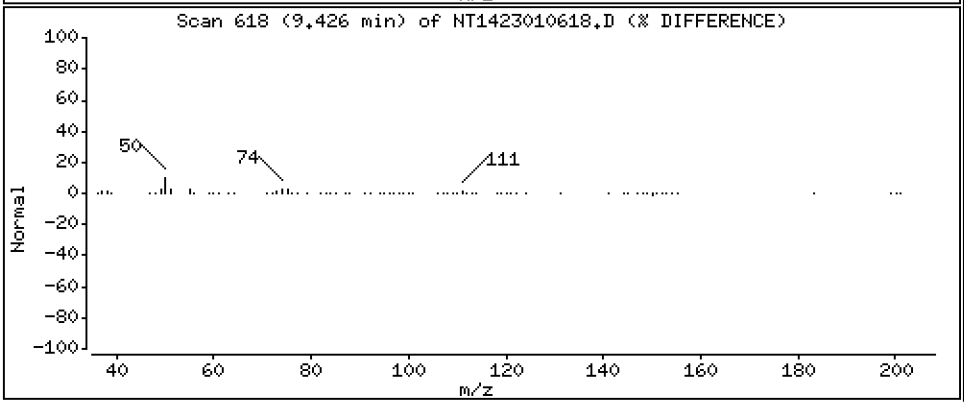
12 1,2-Dichlorobenzene

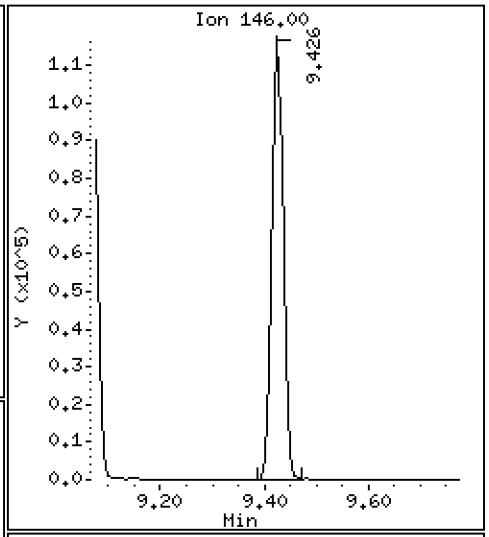
Concentration: 4.025 ug/mL

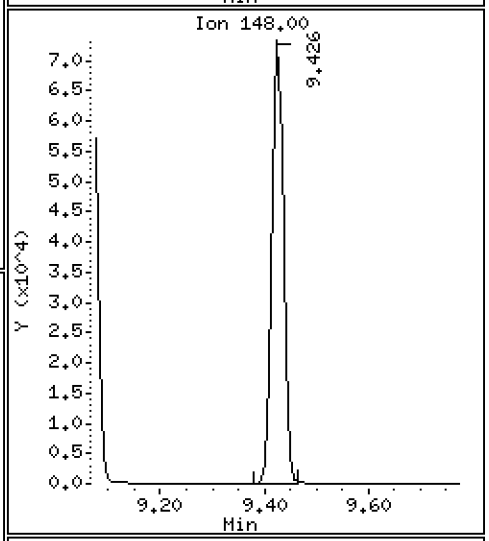


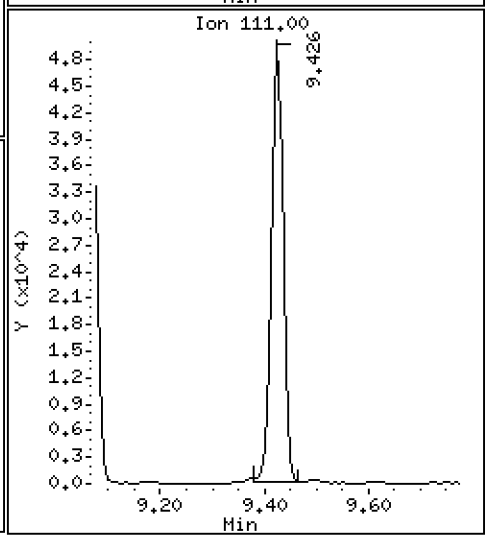












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

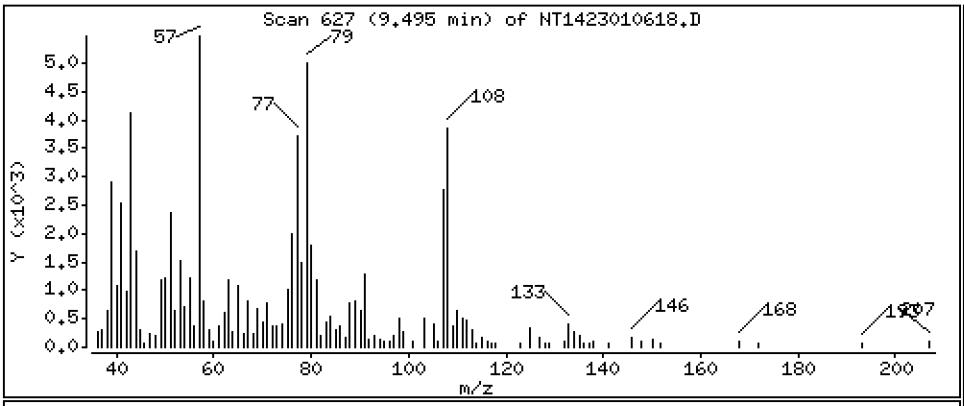
Operator: VTS

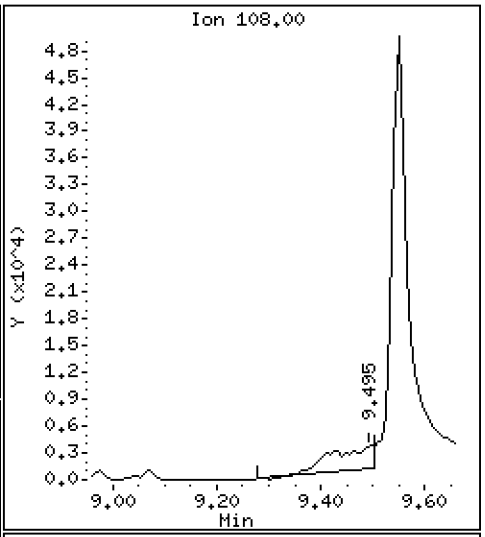
Column phase: ZB-5msi

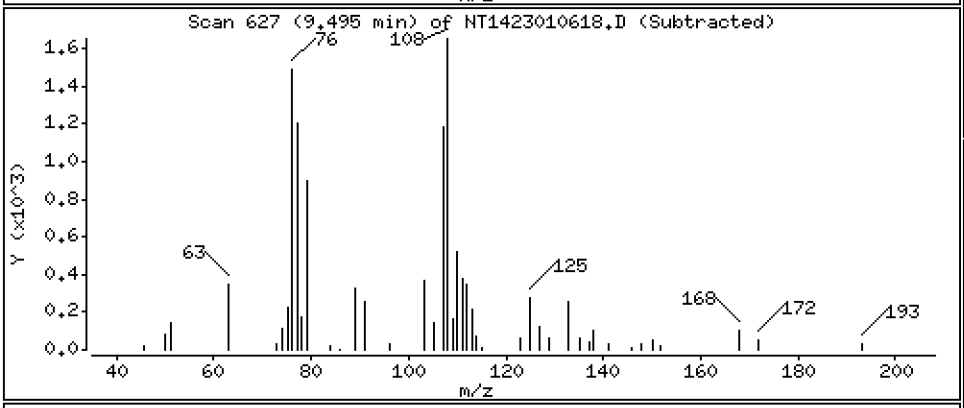
Column diameter: 0.25

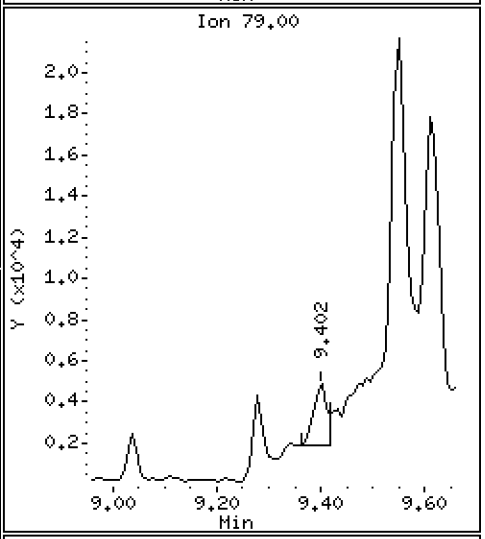
11 Benzyl alcohol

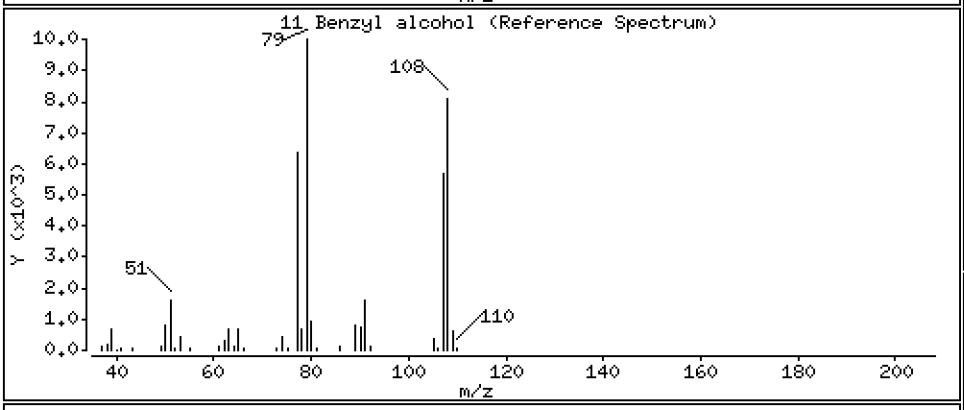
Concentration: 0.6886 ug/mL

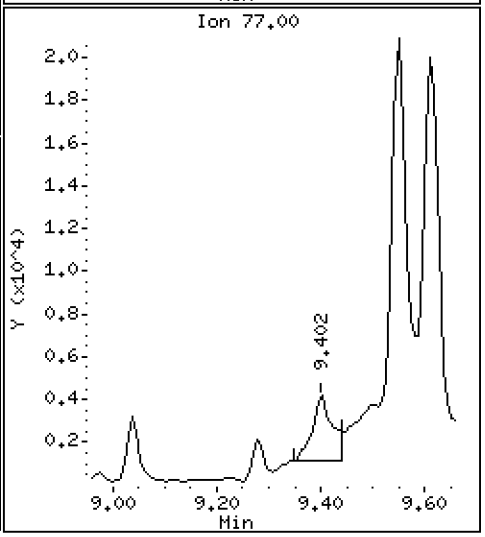


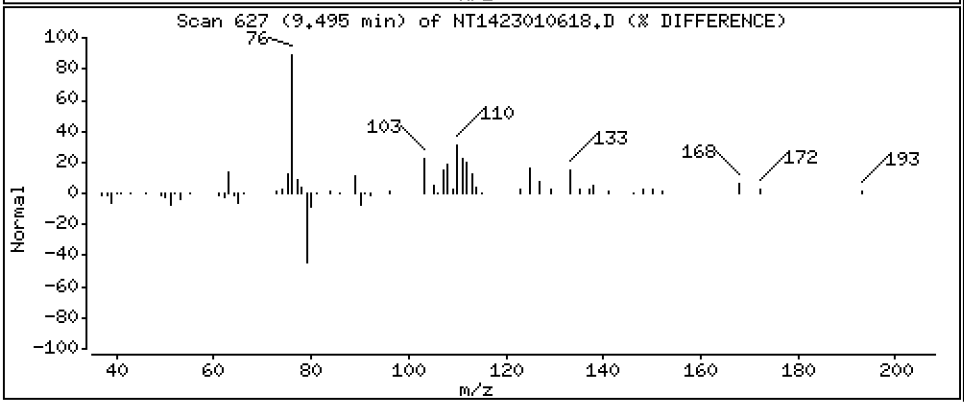












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

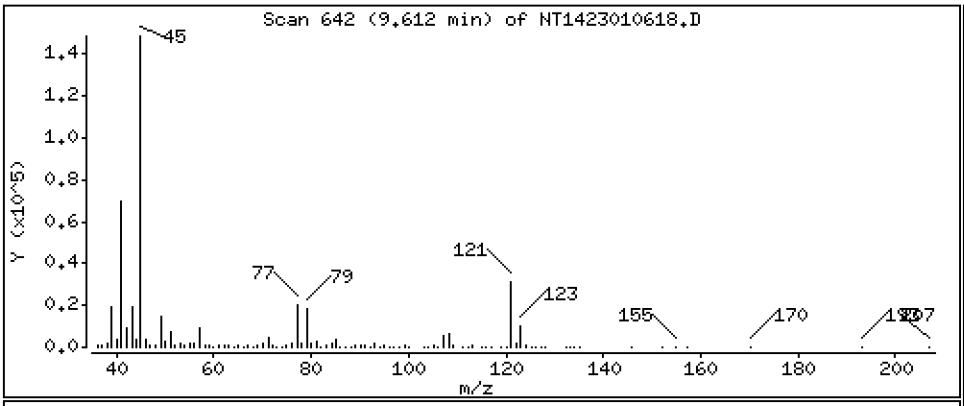
Operator: VTS

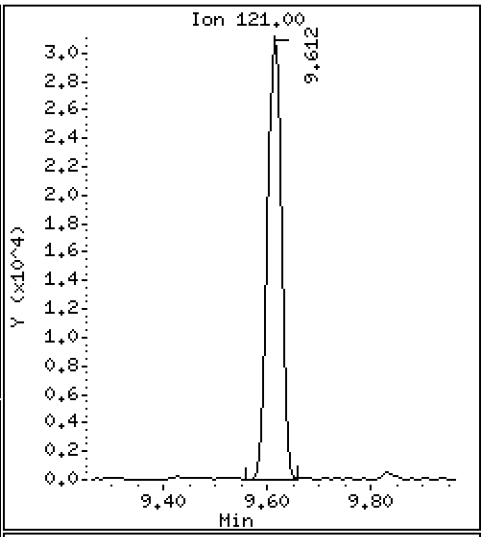
Column phase: ZB-5msi

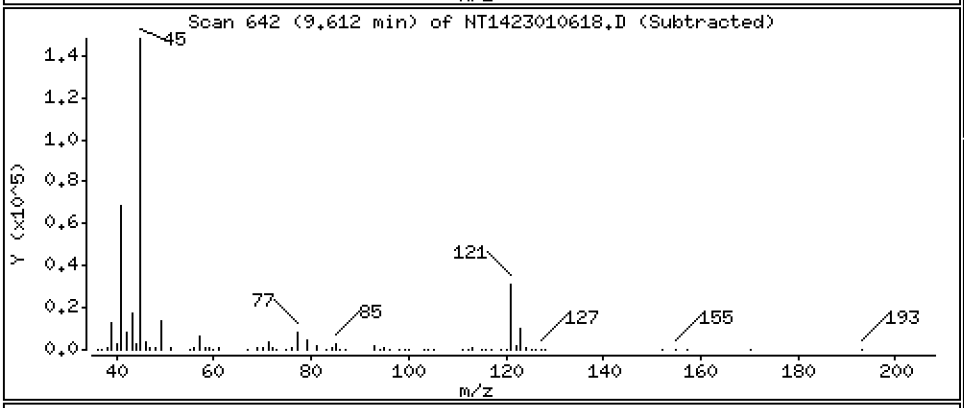
Column diameter: 0.25

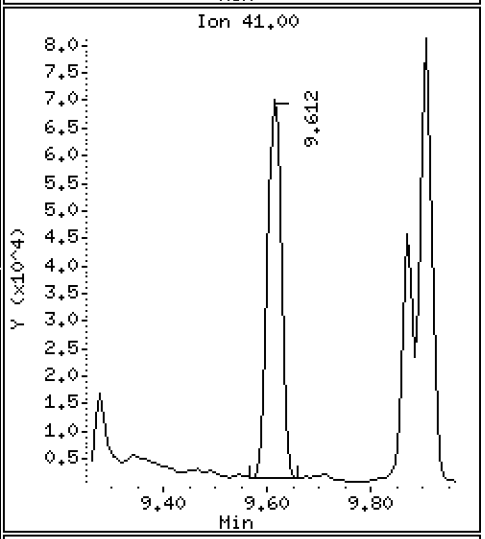
14 2,2'-oxybis(1-Chloropropane)

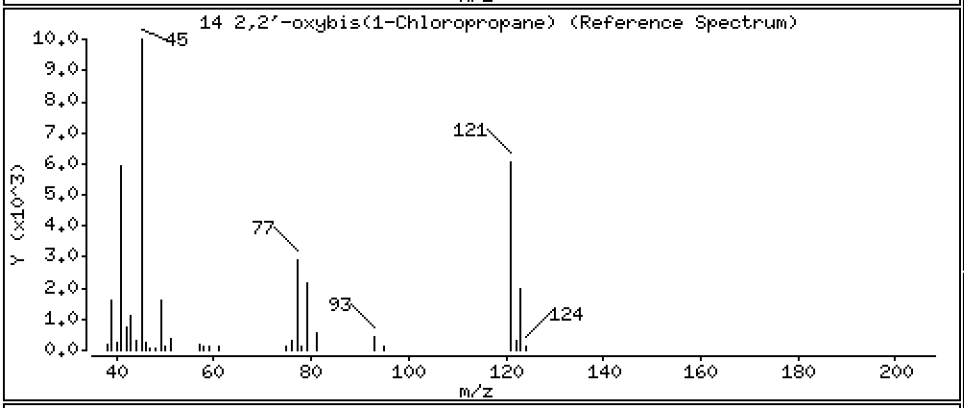
Concentration: 4.662 ug/mL

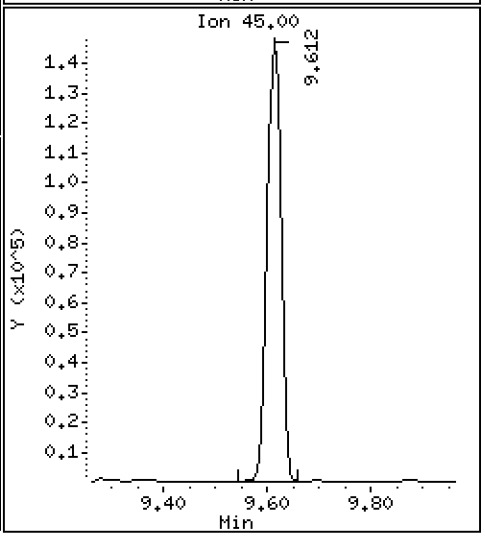


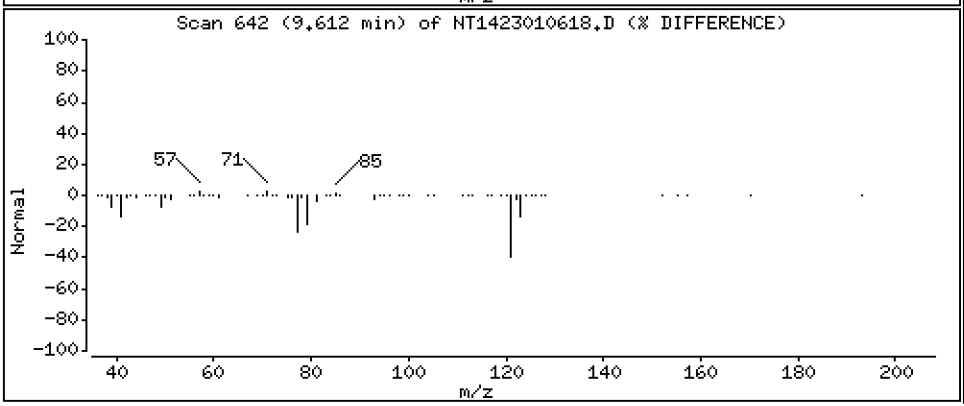












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

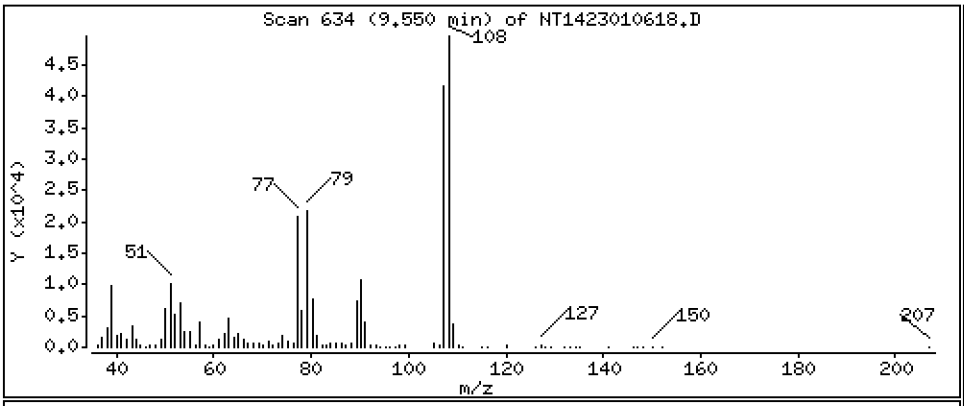
Operator: VTS

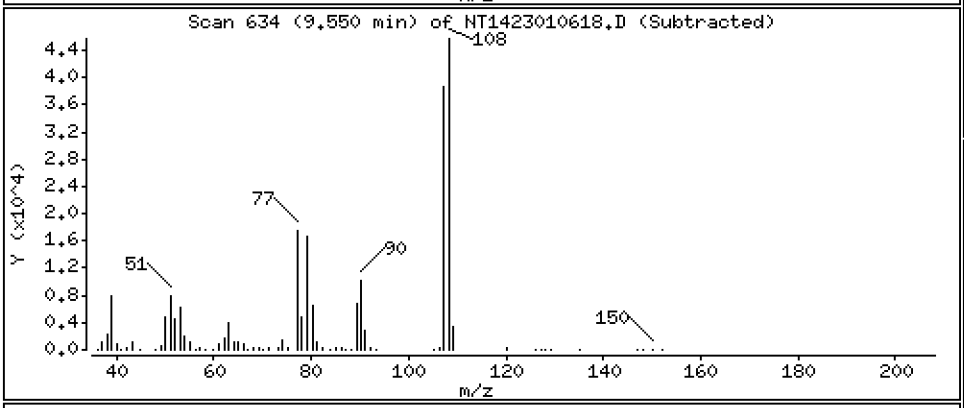
Column phase: ZB-5msi

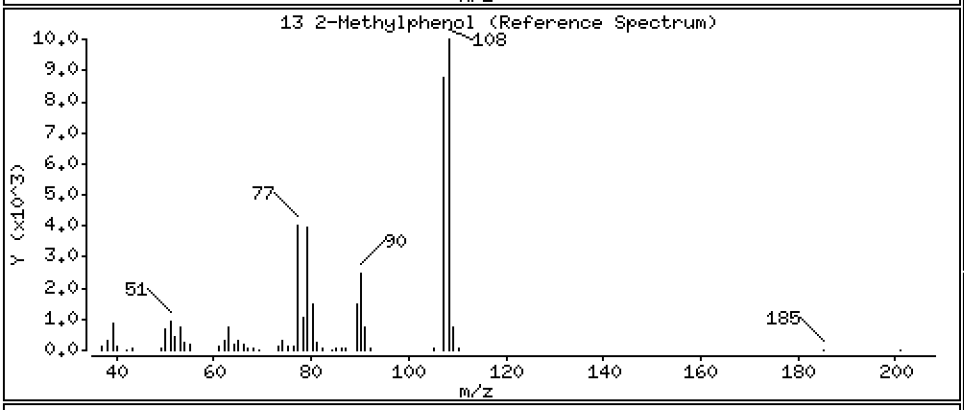
Column diameter: 0.25

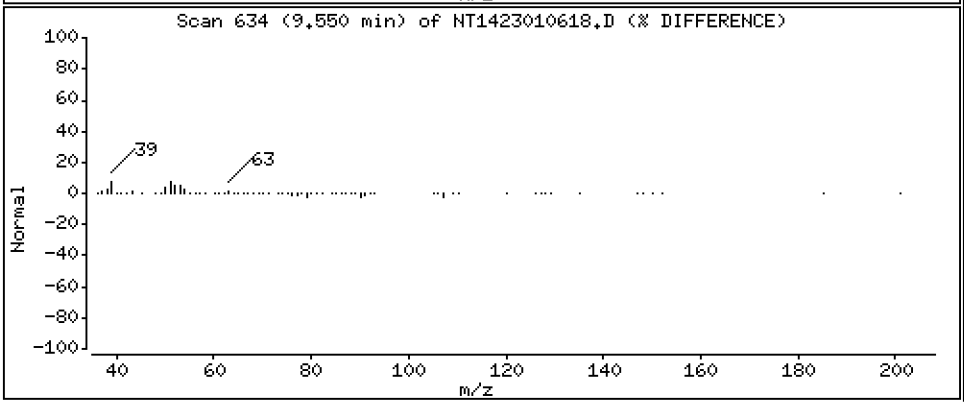
13 2-Methylphenol

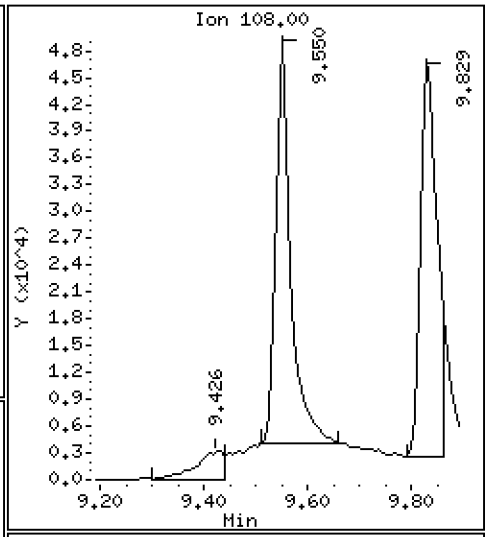
Concentration: 2.339 ug/mL

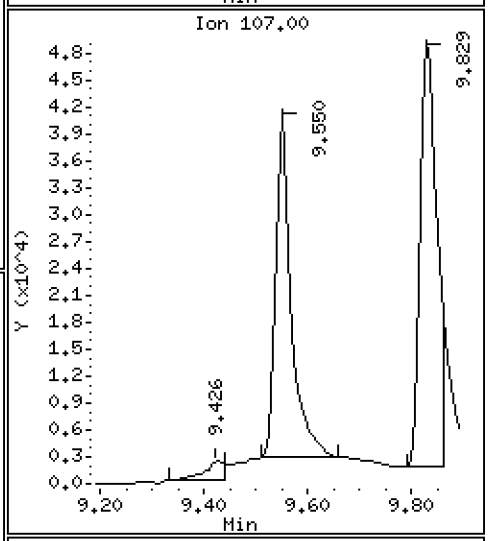


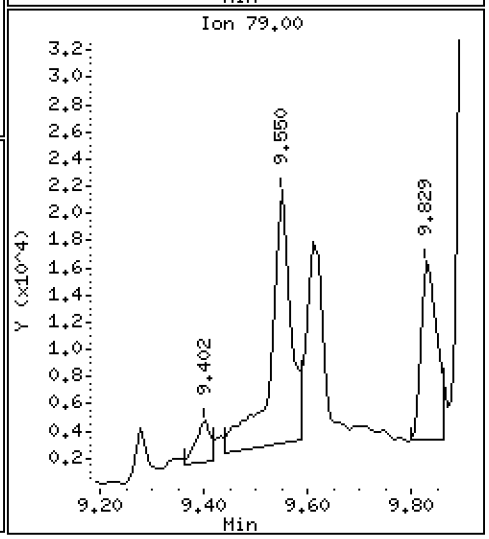












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

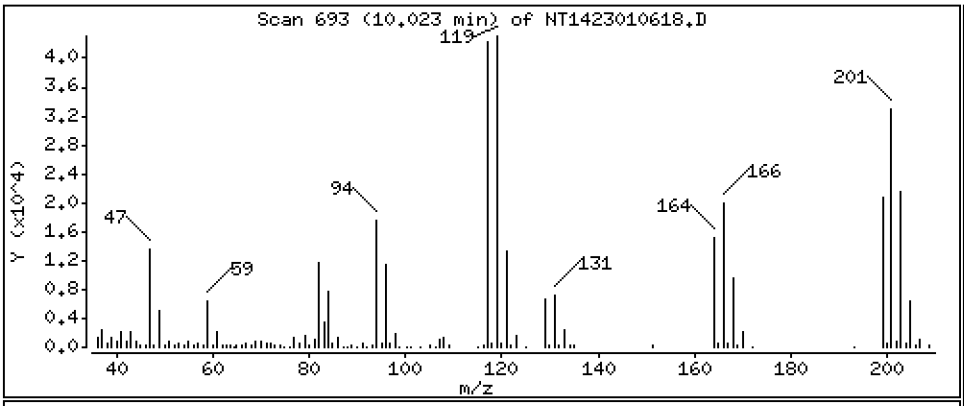
Operator: VTS

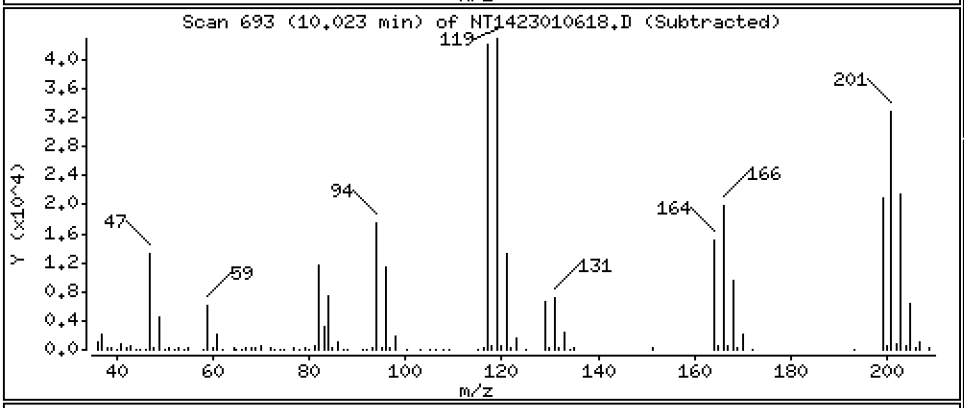
Column phase: ZB-5msi

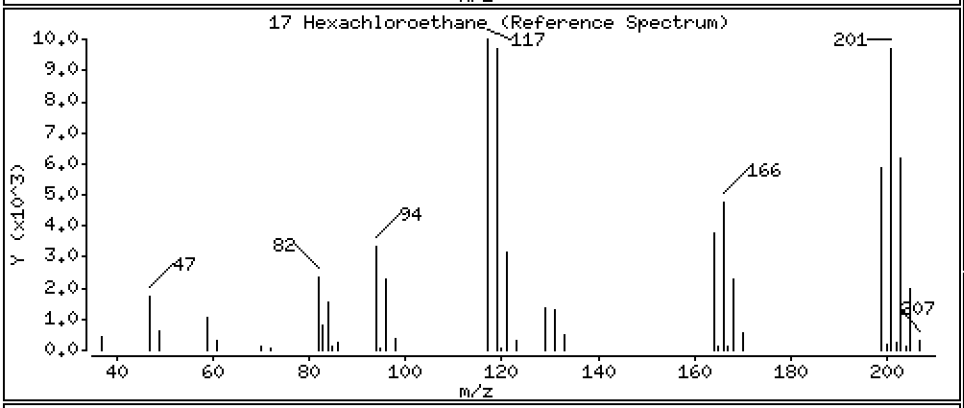
Column diameter: 0.25

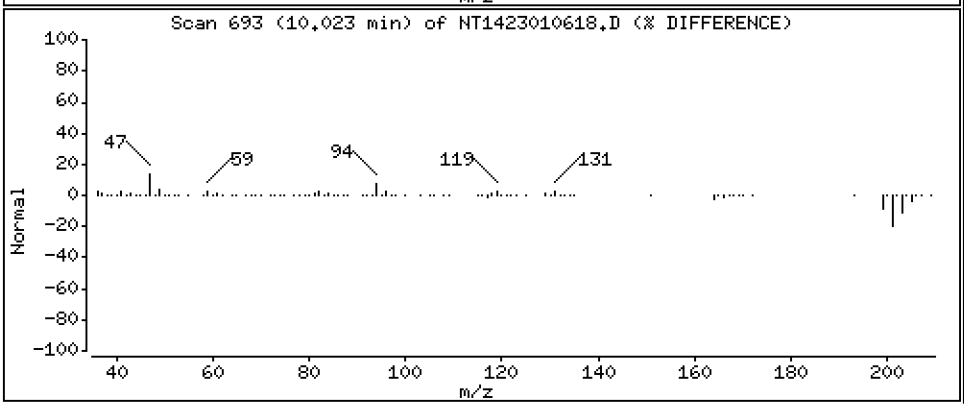
17 Hexachloroethane

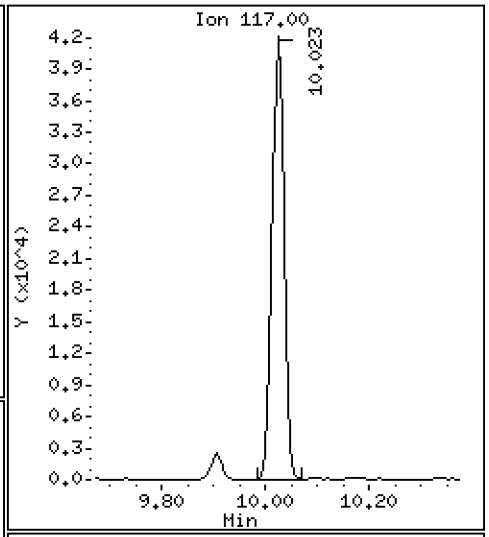
Concentration: 4.100 ug/mL

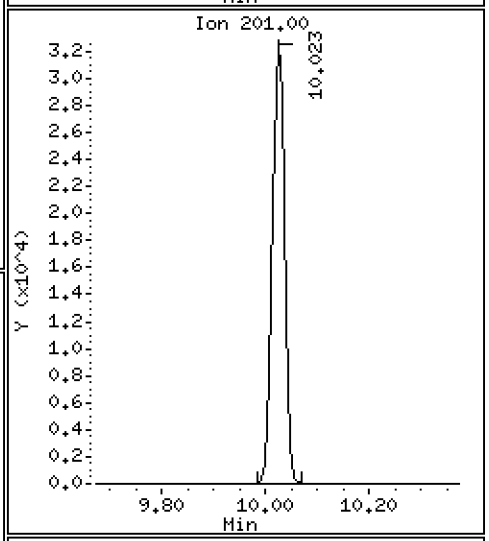


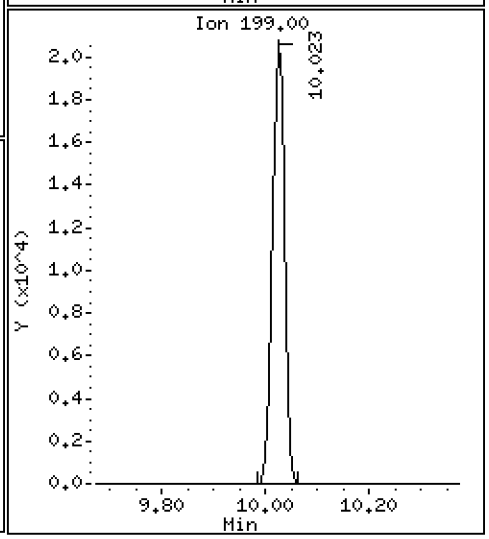












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

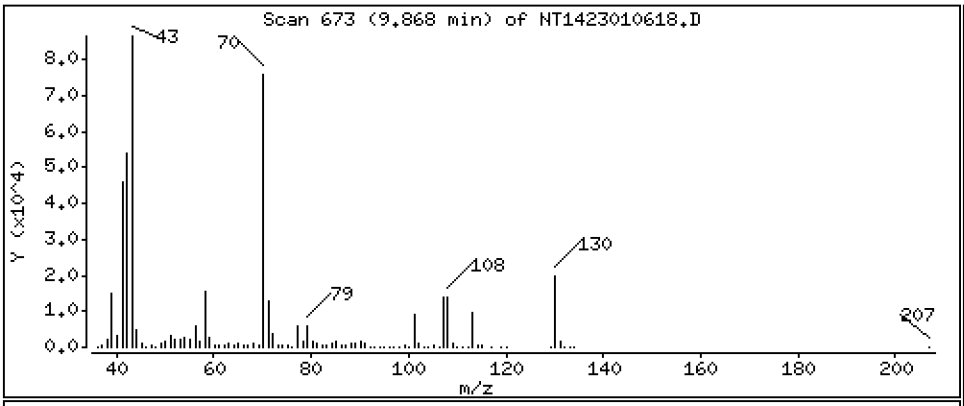
Operator: VTS

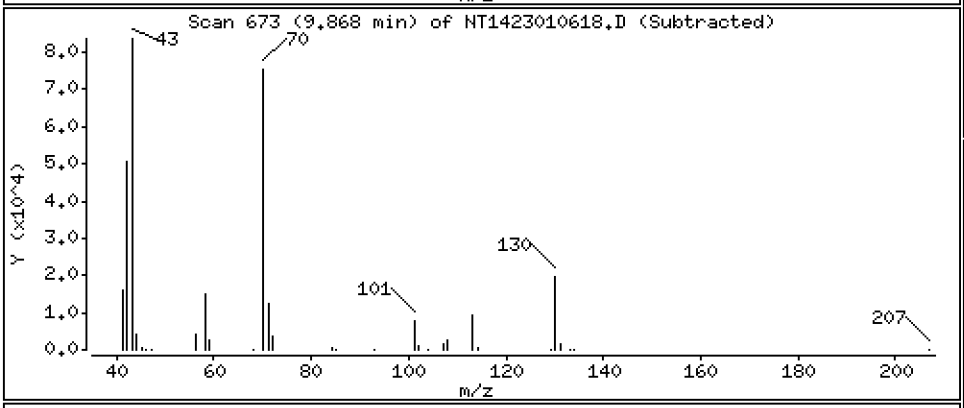
Column phase: ZB-5msi

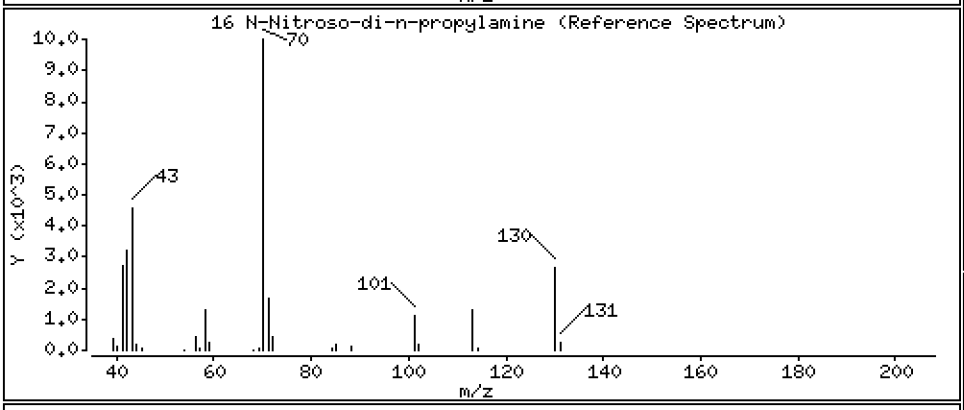
Column diameter: 0.25

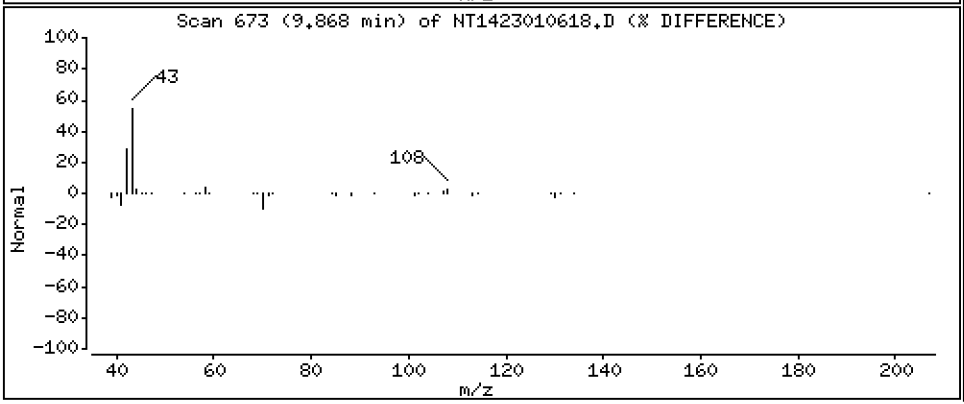
16 N-Nitroso-di-n-propylamine

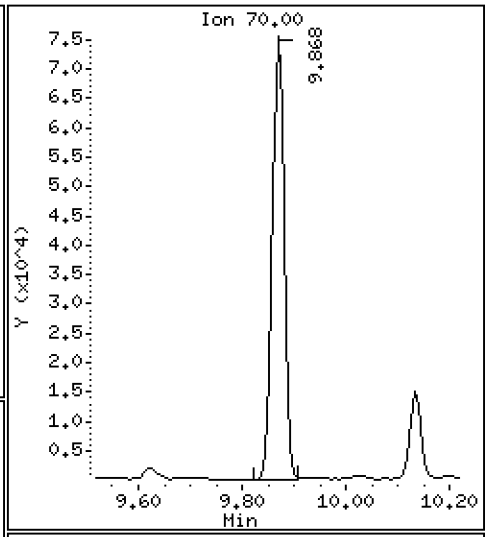
Concentration: 4.934 ug/mL

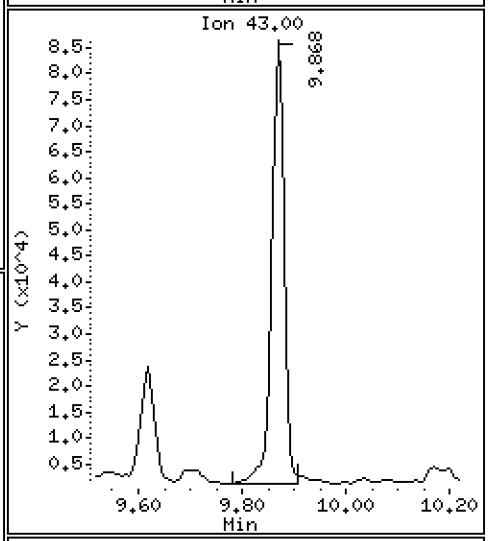


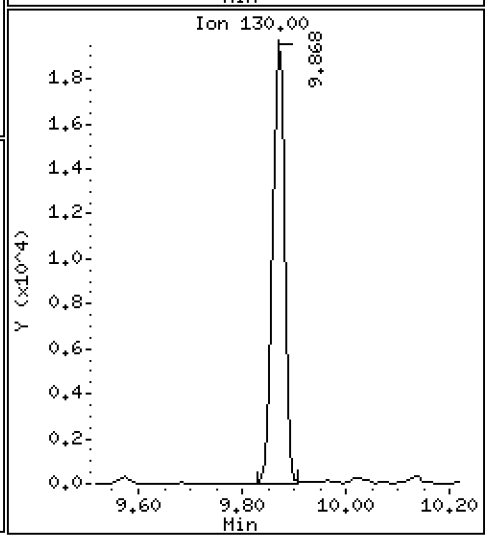












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

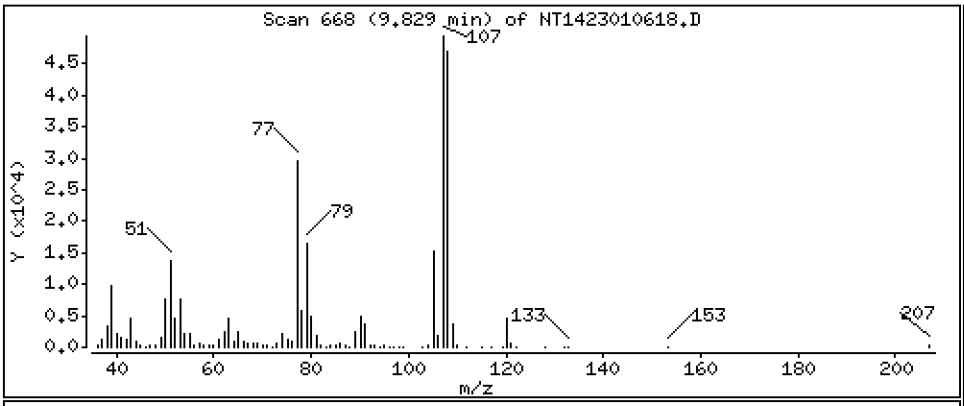
Operator: VTS

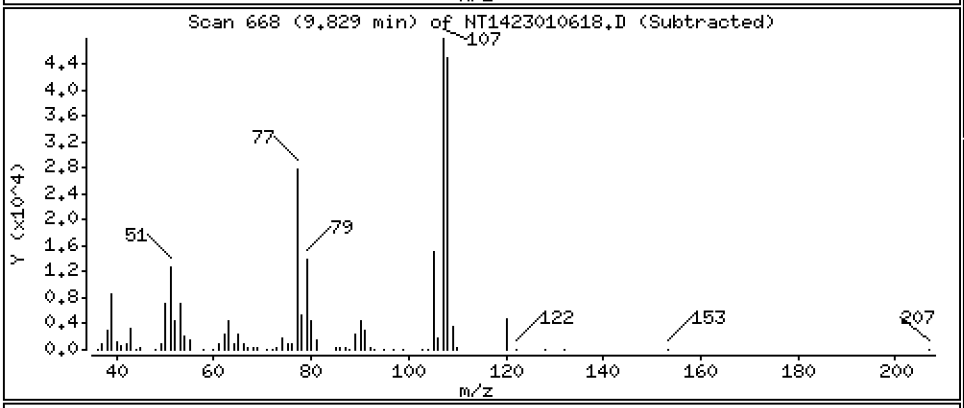
Column phase: ZB-5msi

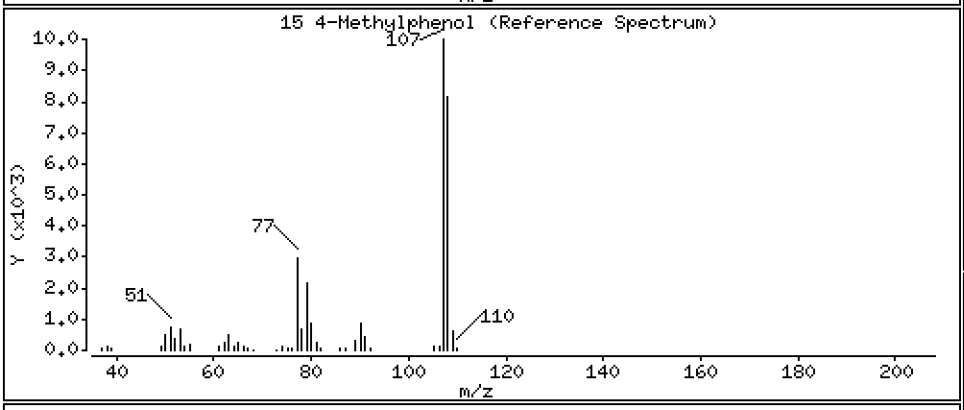
Column diameter: 0.25

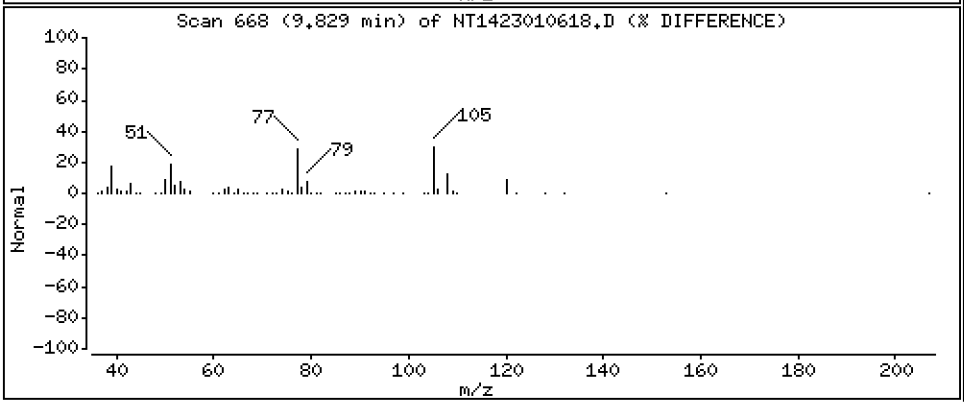
15 4-Methylphenol

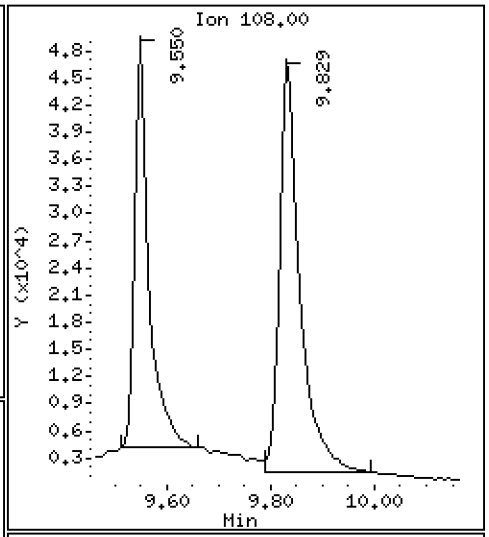
Concentration: 3.177 ug/mL

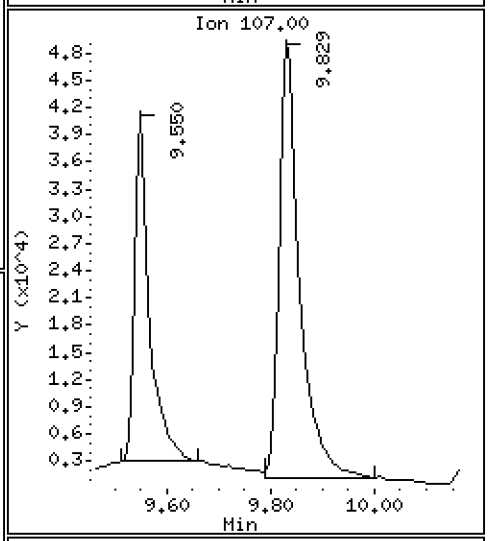


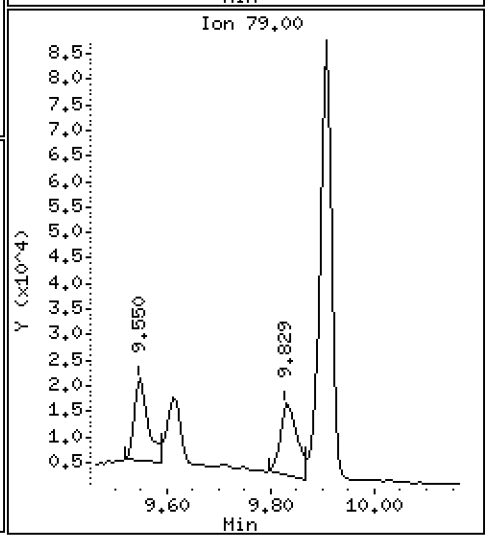












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

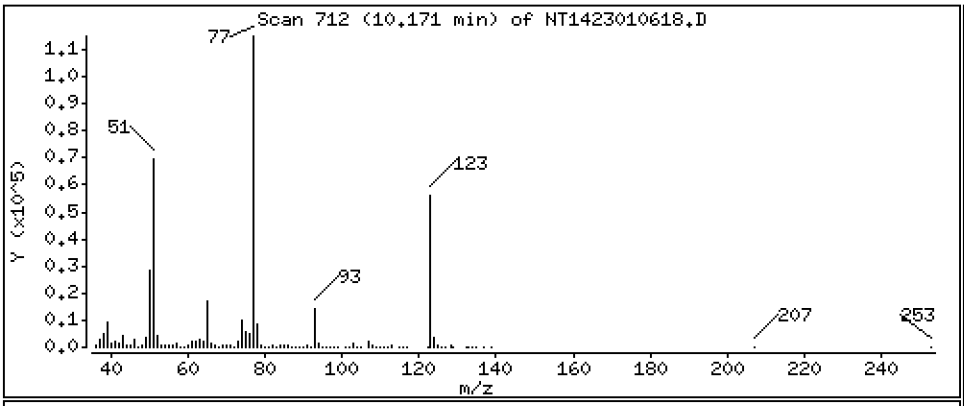
Operator: VTS

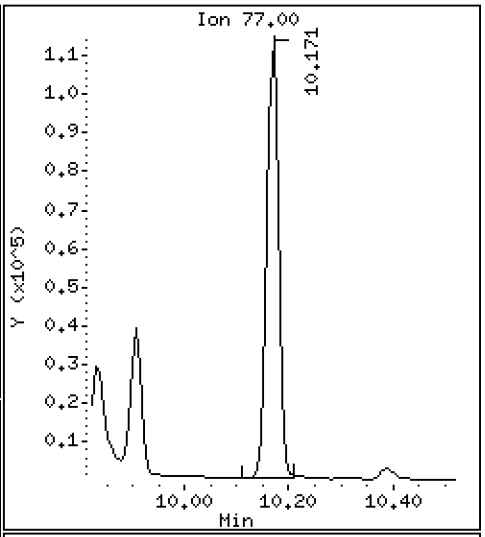
Column phase: ZB-5msi

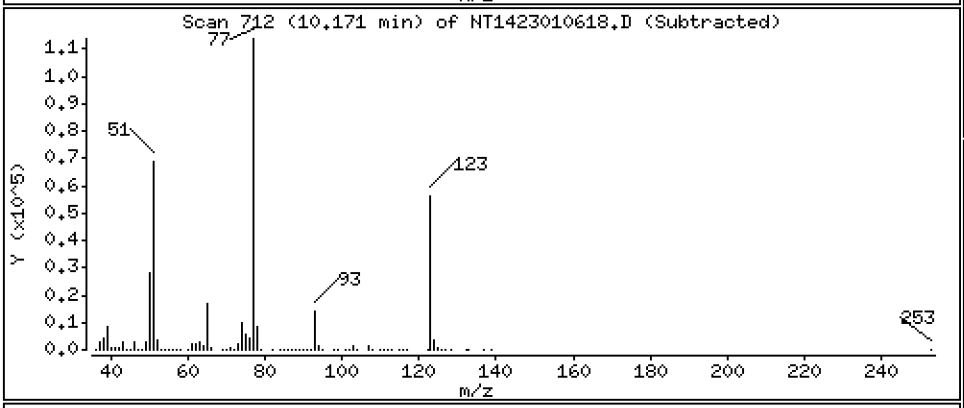
Column diameter: 0.25

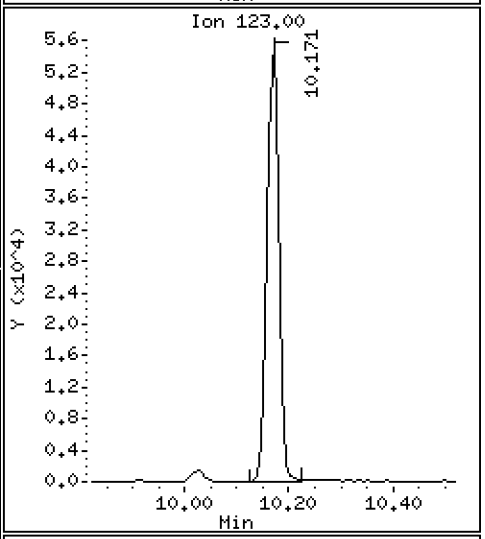
19 Nitrobenzene

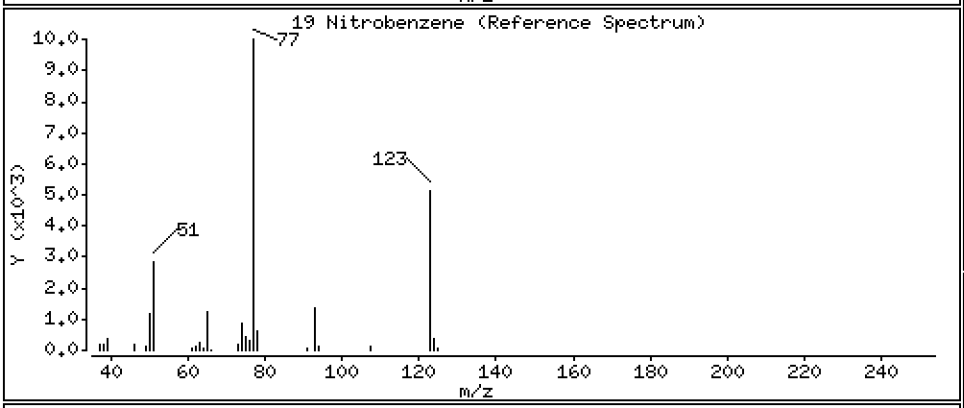
Concentration: 4.634 ug/mL

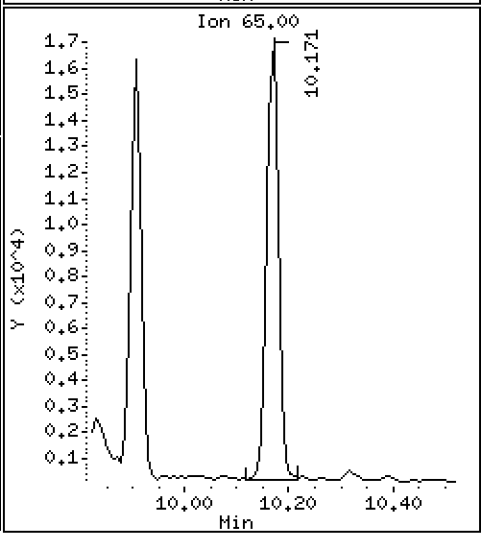


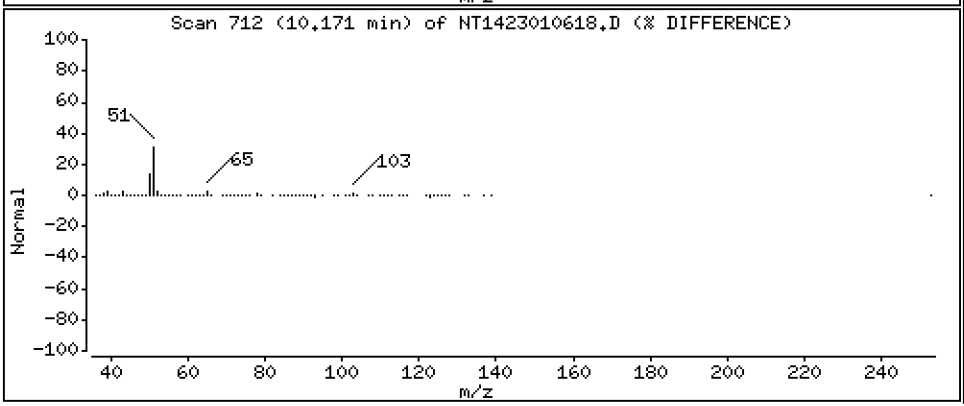












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

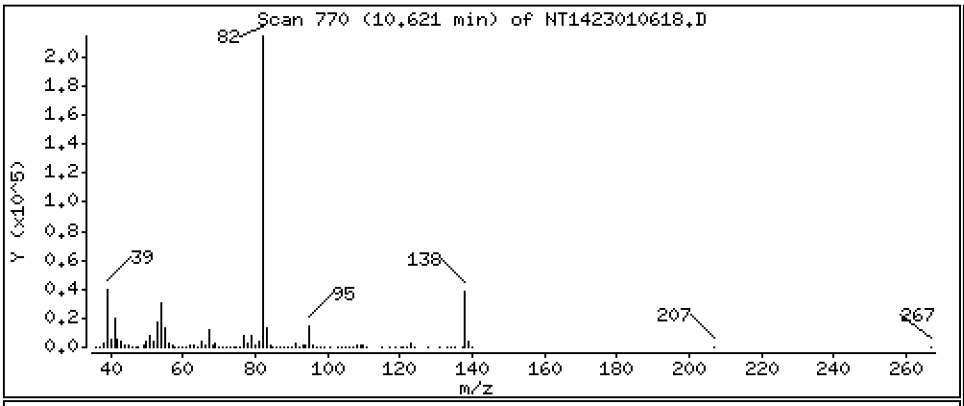
Operator: VTS

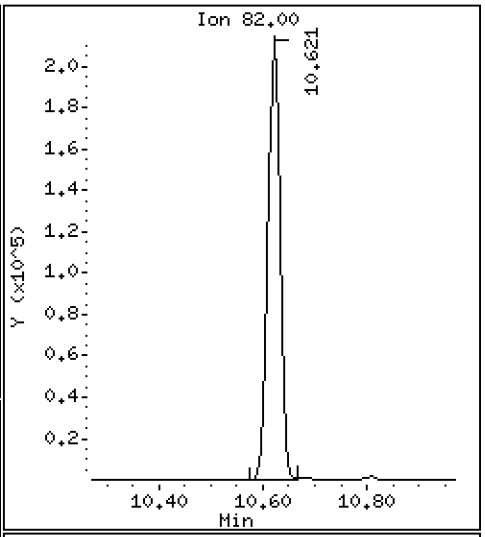
Column phase: ZB-5msi

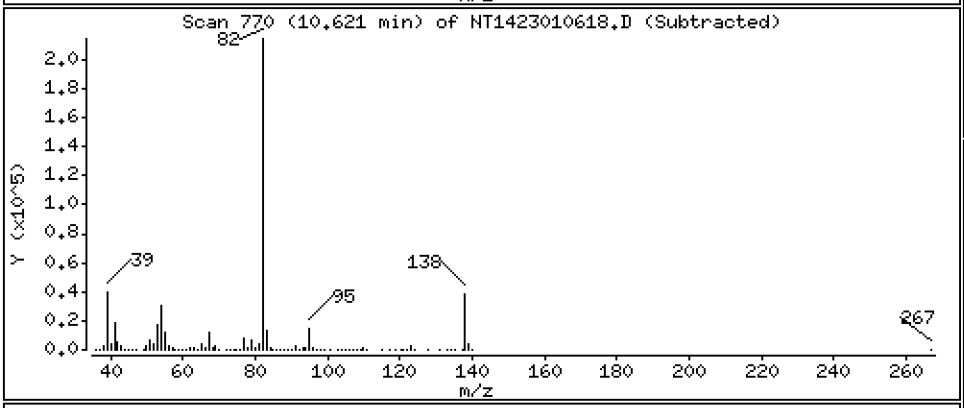
Column diameter: 0.25

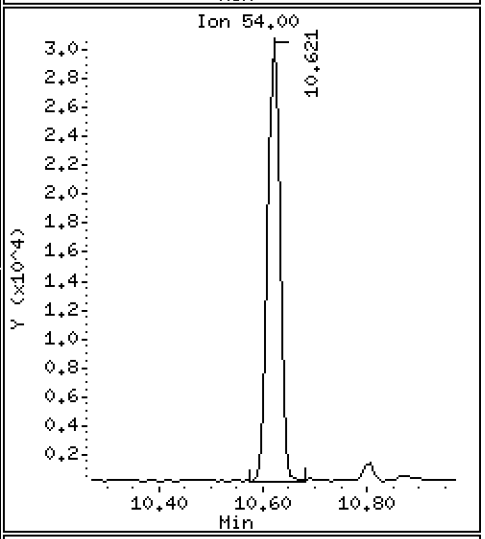
20 Isophorone

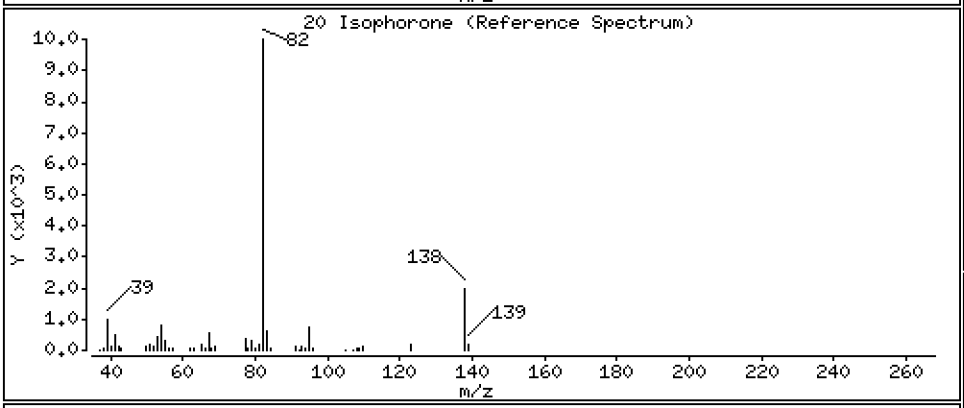
Concentration: 7.087 ug/mL

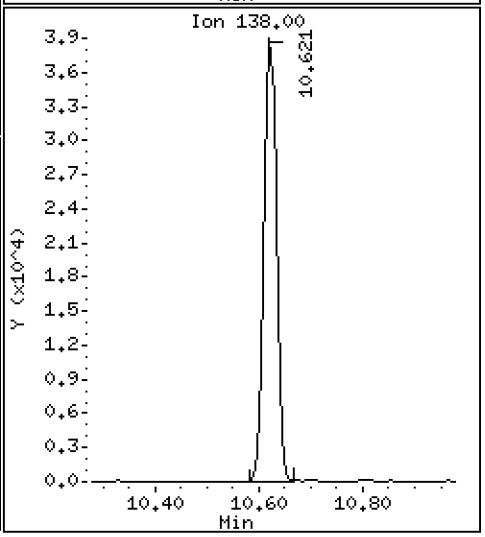


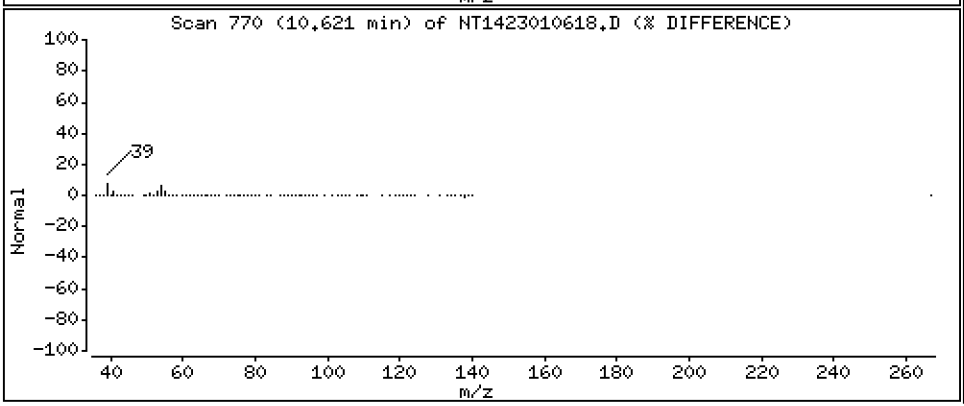












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

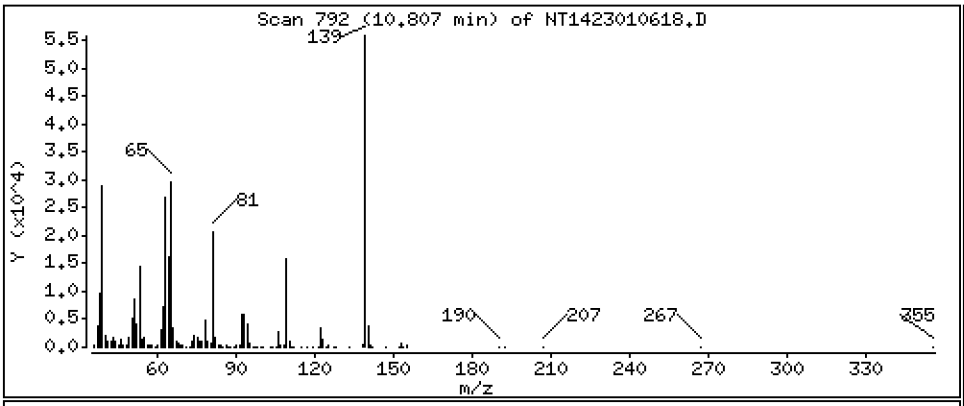
Operator: VTS

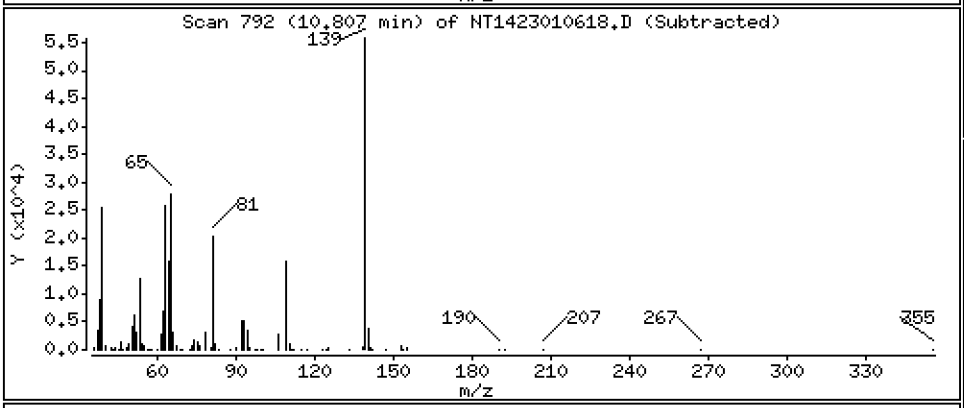
Column phase: ZB-5msi

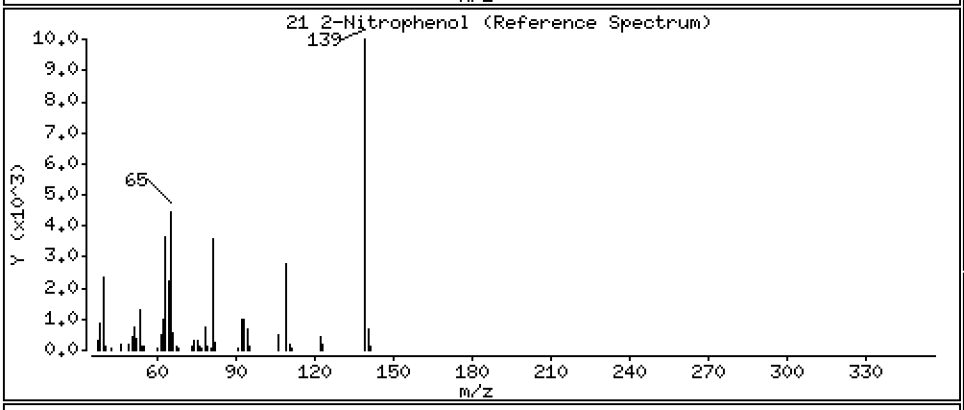
Column diameter: 0.25

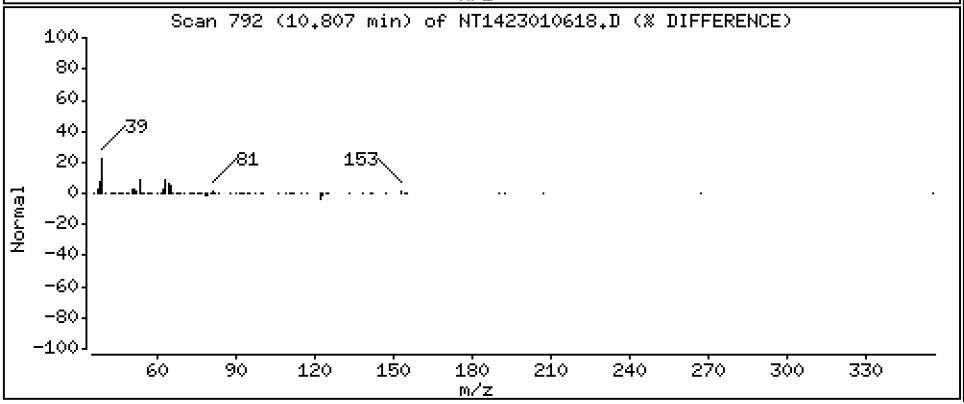
21 2-Nitrophenol

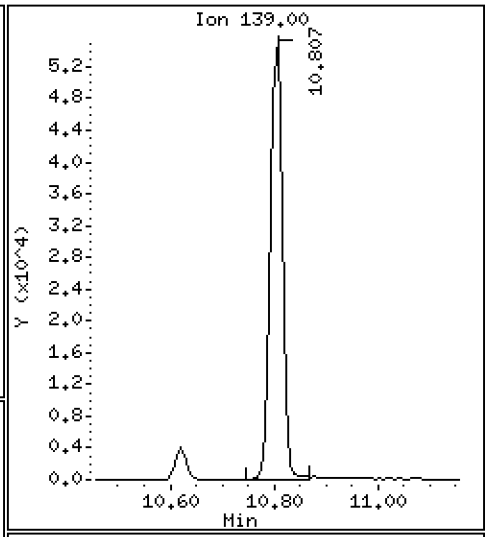
Concentration: 4.191 ug/mL

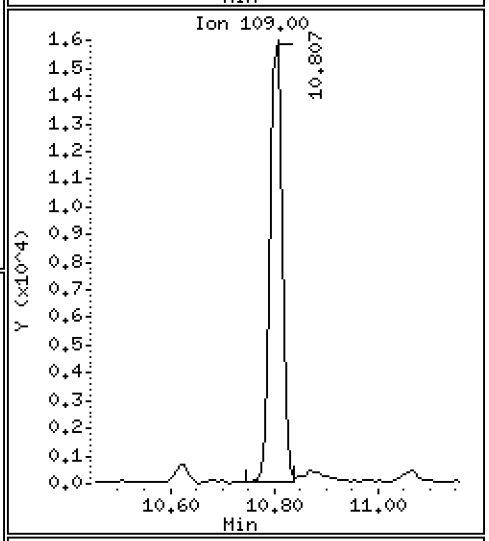


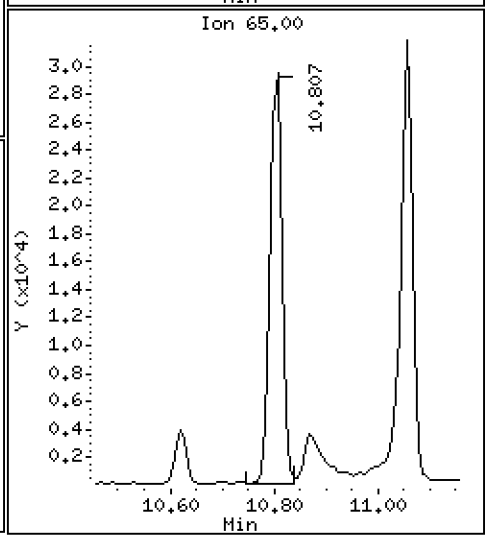












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

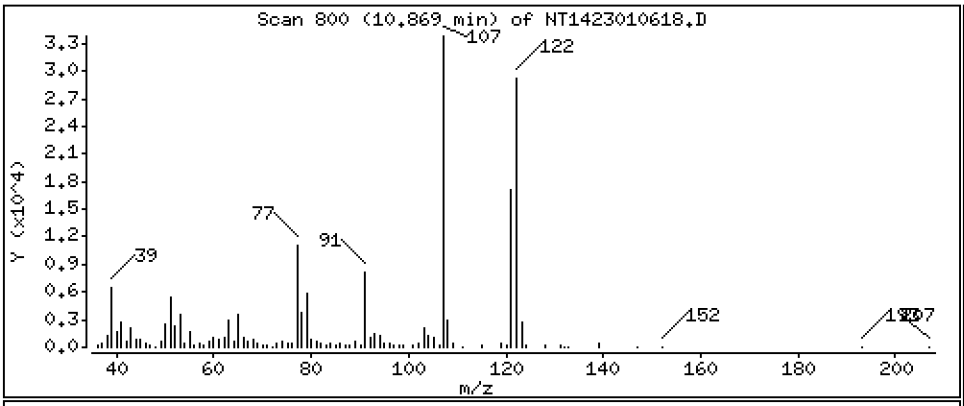
Operator: VTS

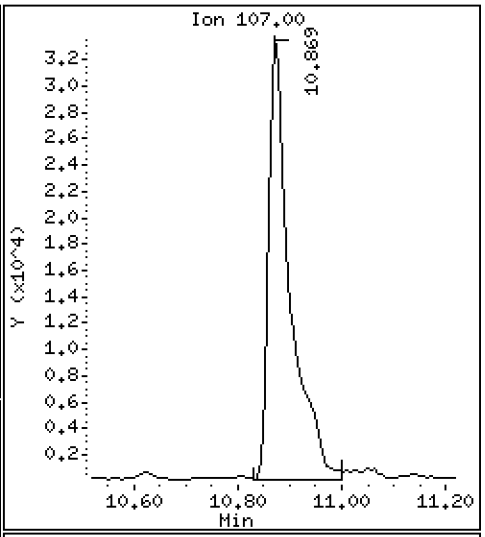
Column phase: ZB-5msi

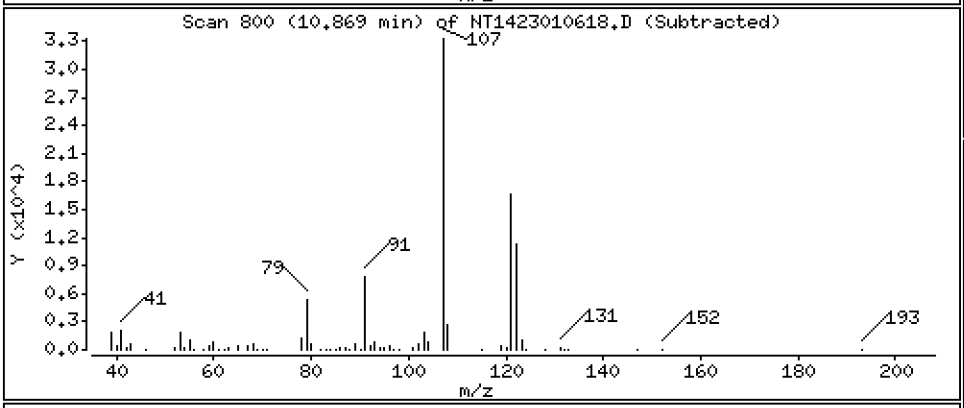
Column diameter: 0.25

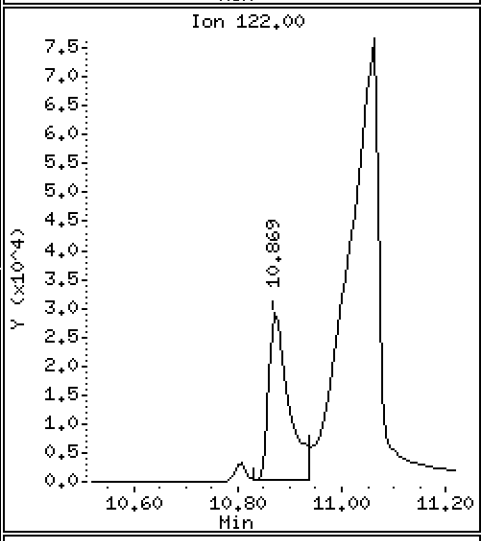
22 2,4-Dimethylphenol

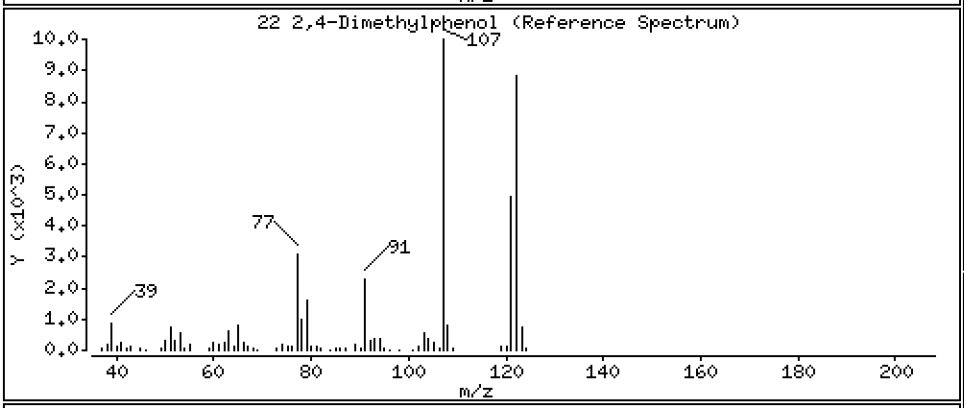
Concentration: 2.493 ug/mL

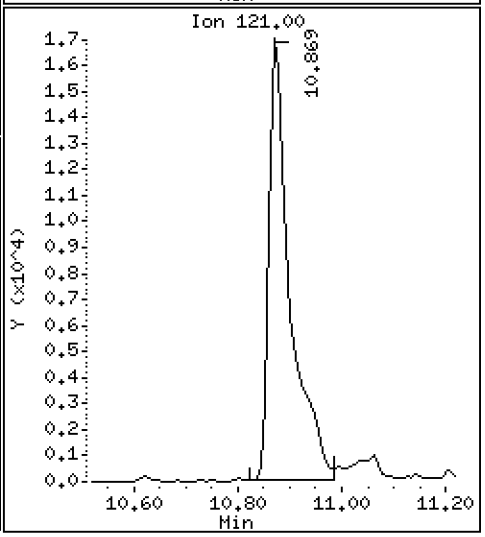


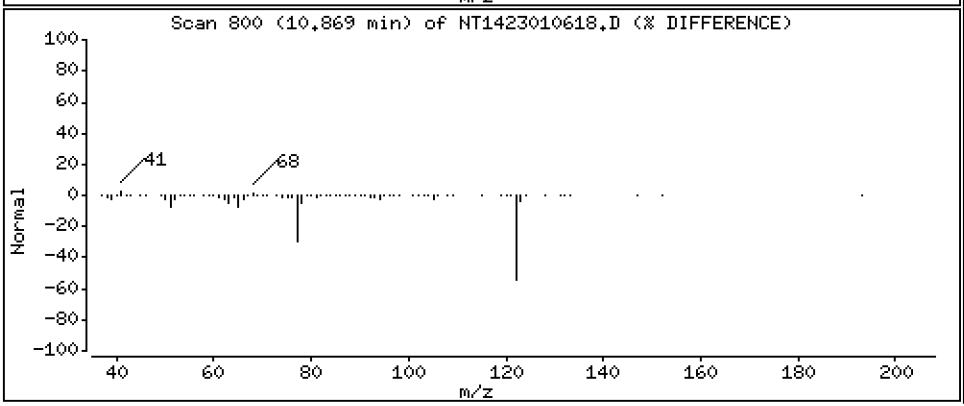












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

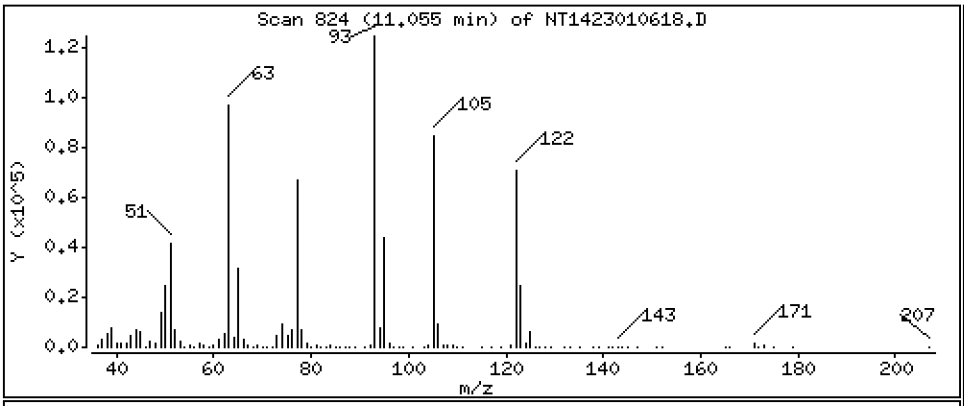
Operator: VTS

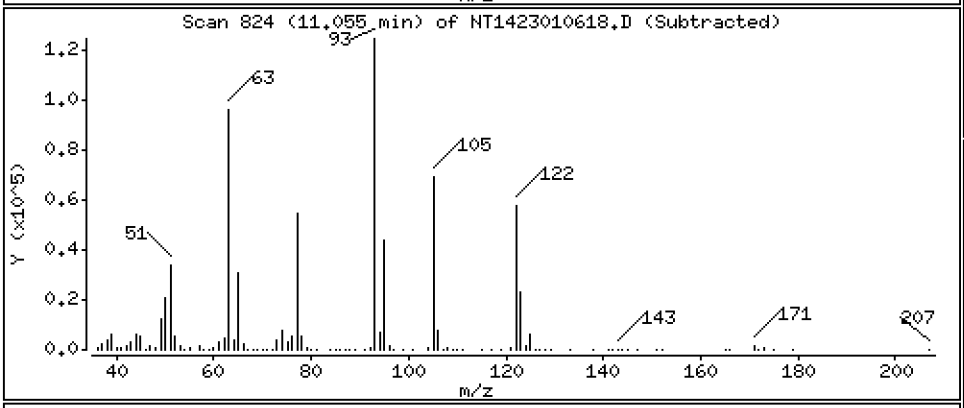
Column phase: ZB-5msi

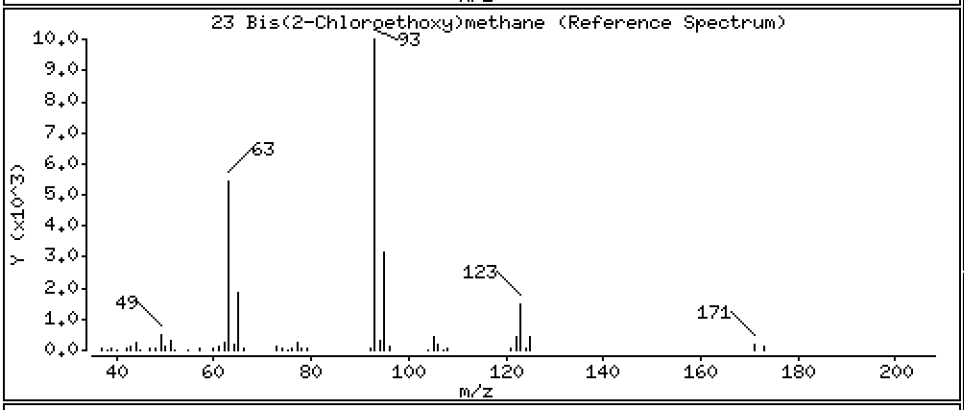
Column diameter: 0.25

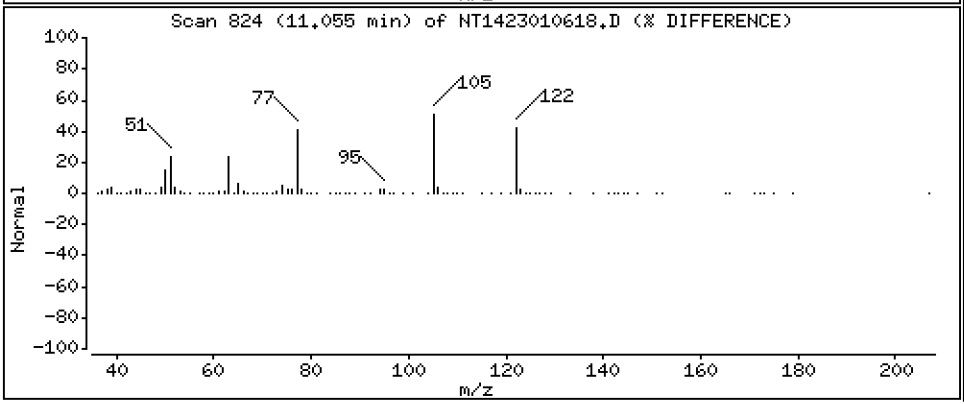
23 Bis(2-Chloroethoxy)methane

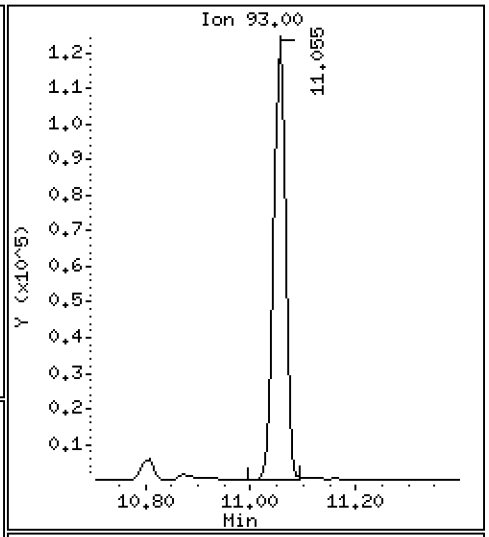
Concentration: 5.107 ug/mL

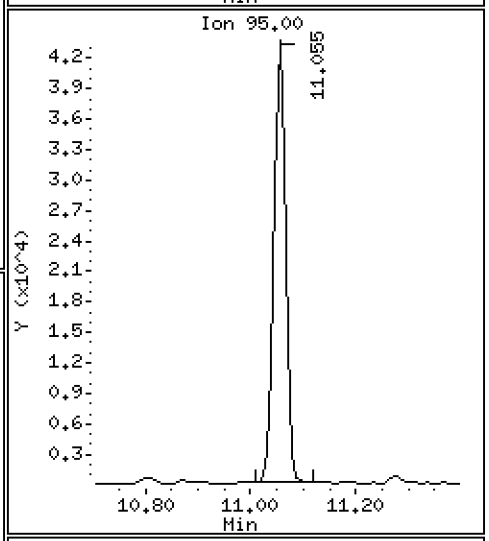


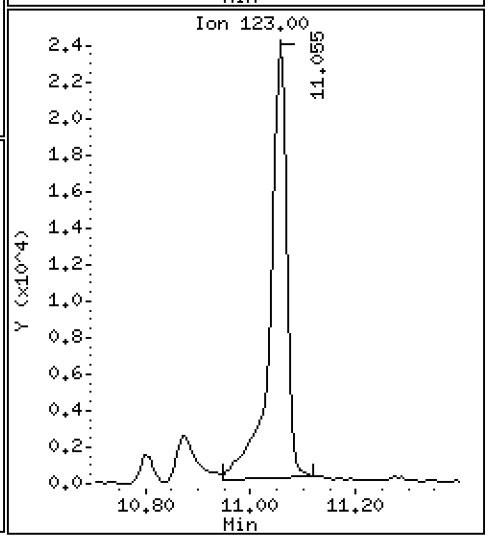












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

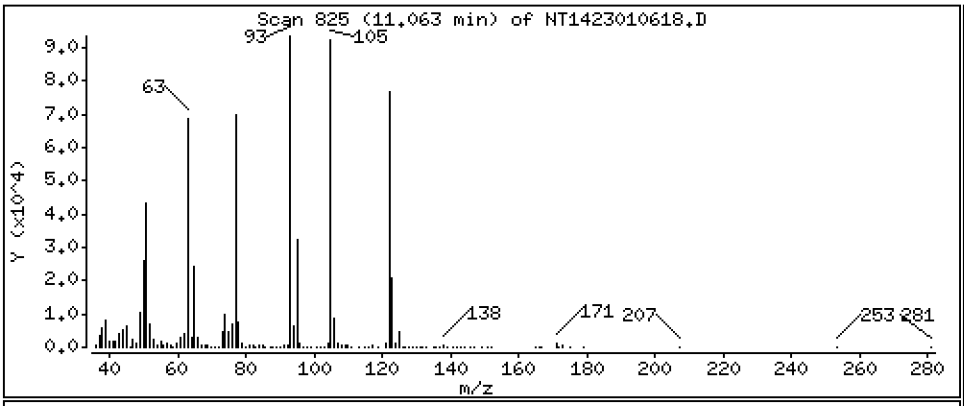
Operator: VTS

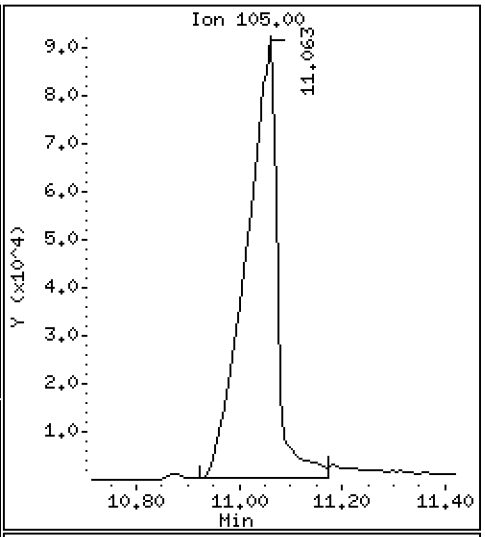
Column phase: ZB-5msi

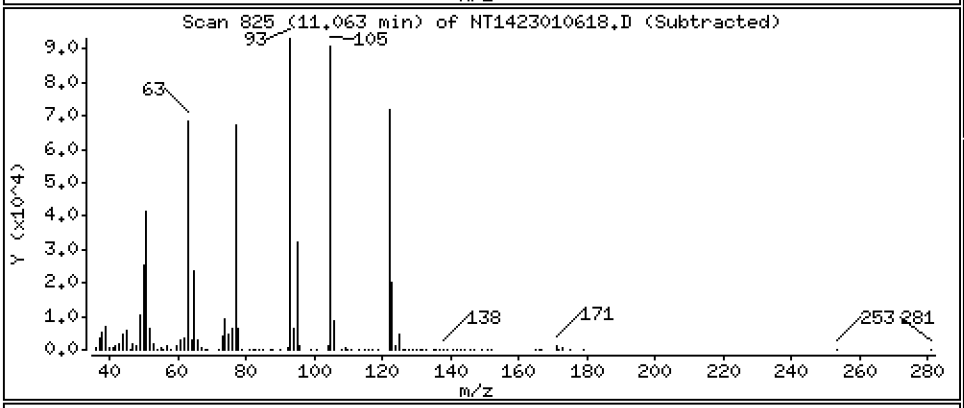
Column diameter: 0.25

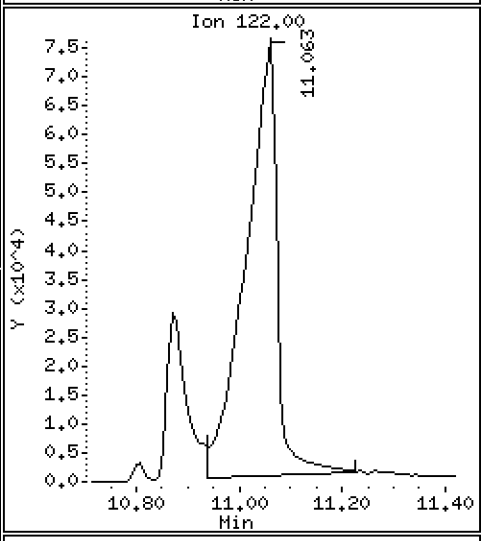
24 Benzoic acid

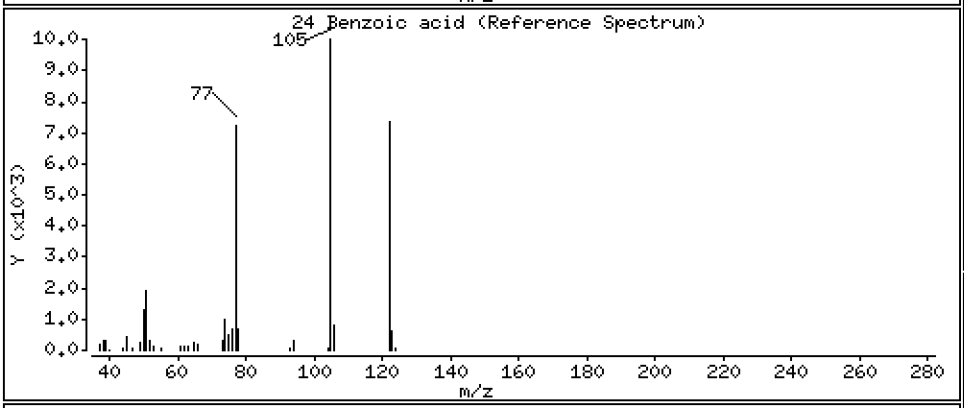
Concentration: 15.91 ug/mL

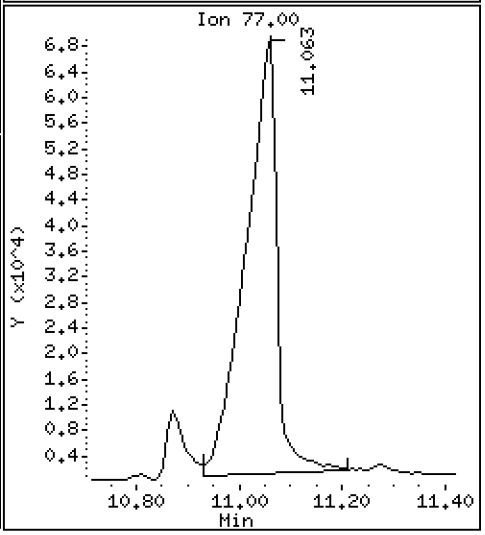


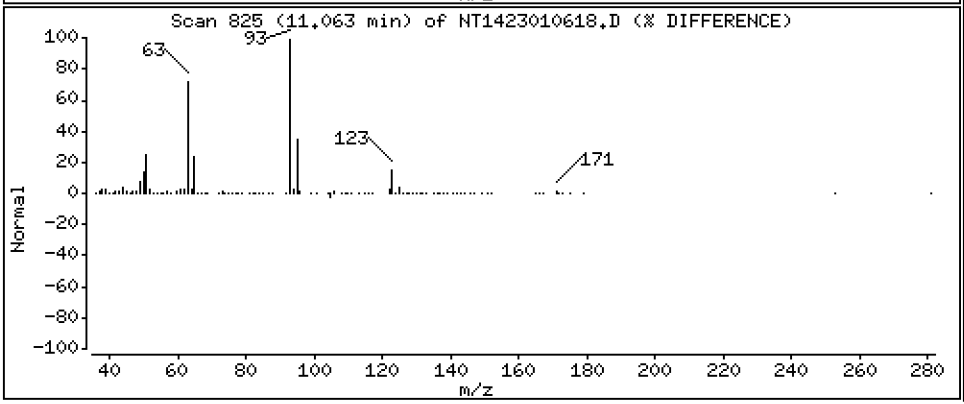












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

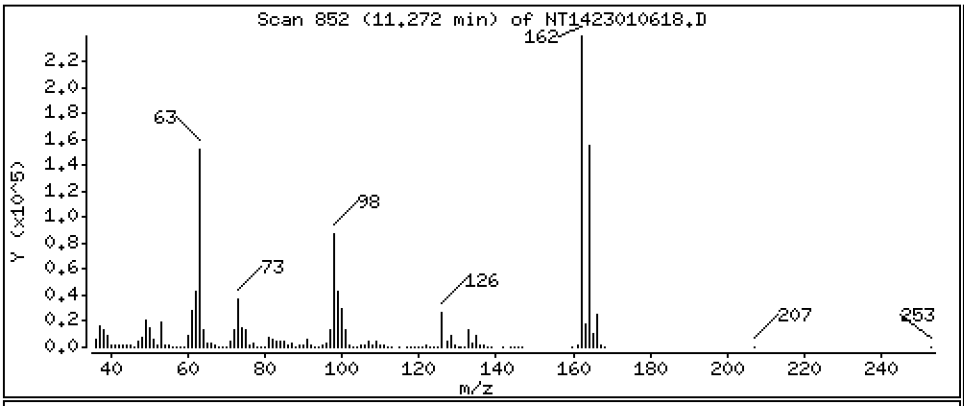
Operator: VTS

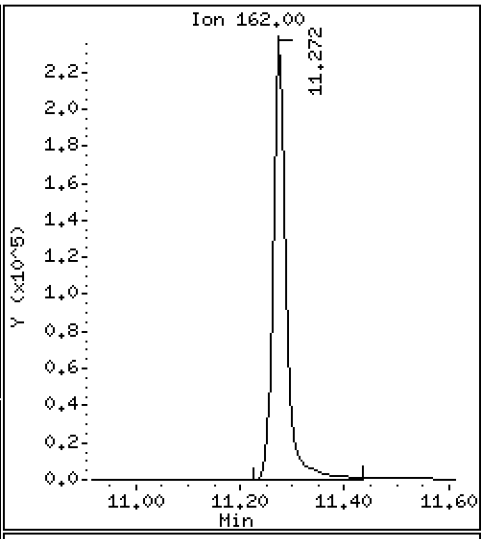
Column phase: ZB-5msi

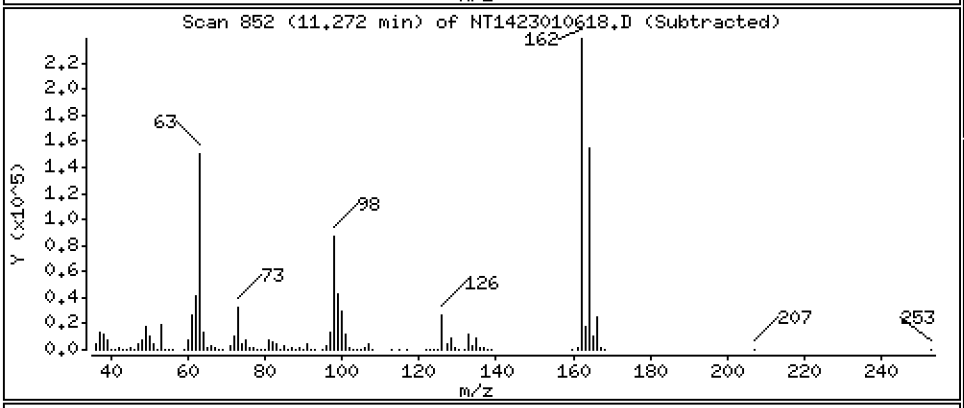
Column diameter: 0.25

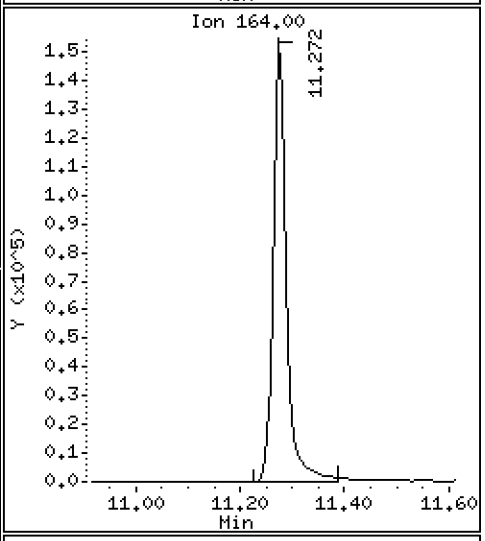
25 2,4-Dichlorophenol

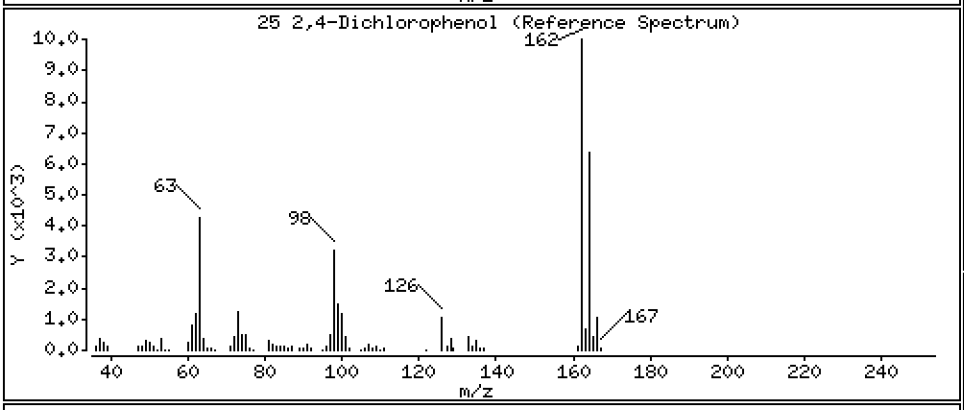
Concentration: 14.22 ug/mL

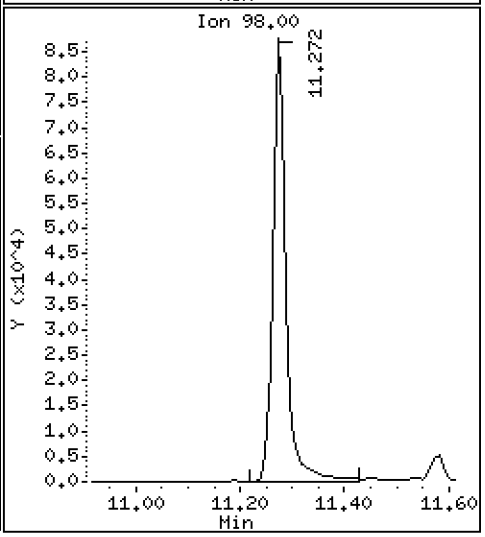


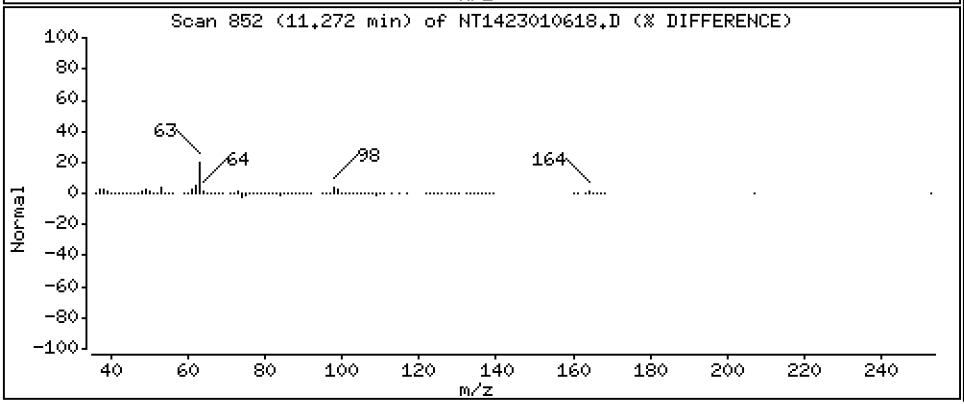












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

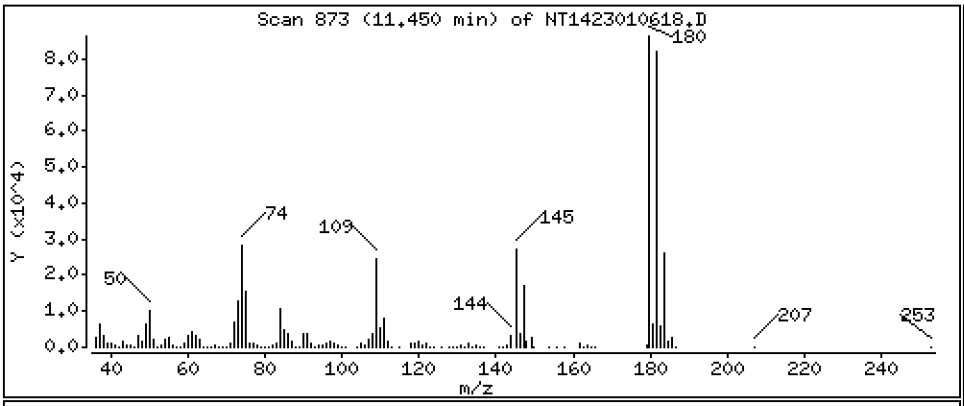
Operator: VTS

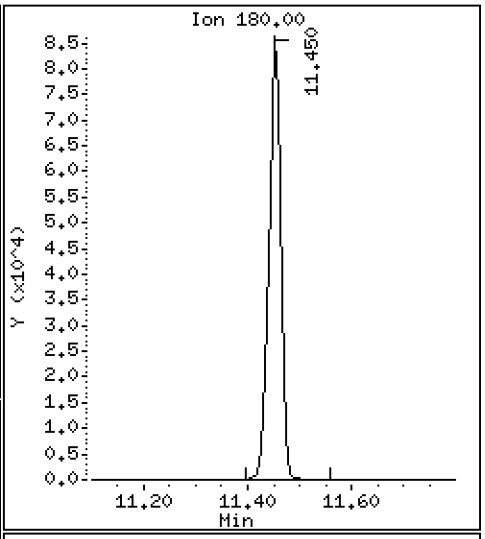
Column phase: ZB-5msi

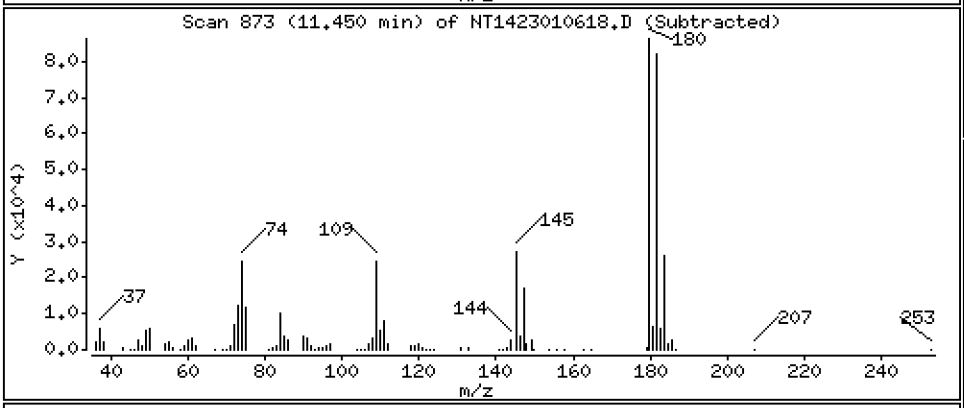
Column diameter: 0.25

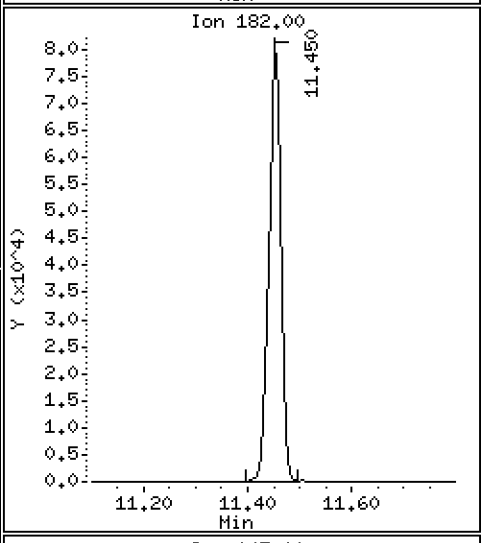
26 1,2,4-Trichlorobenzene

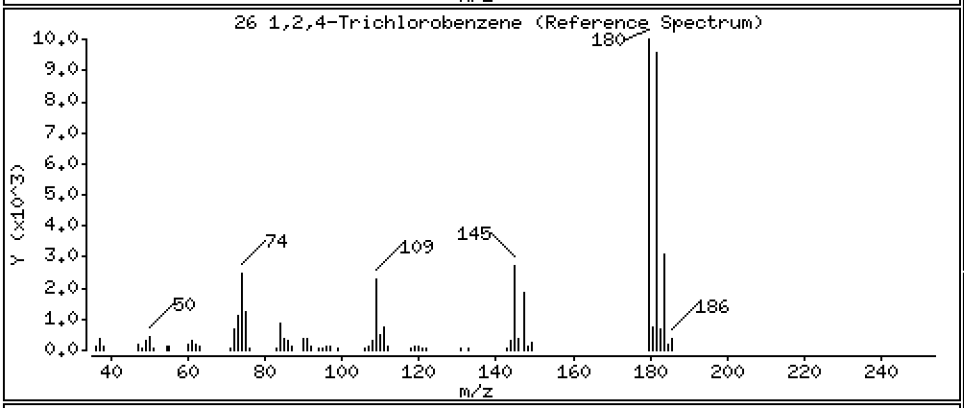
Concentration: 4.297 ug/mL

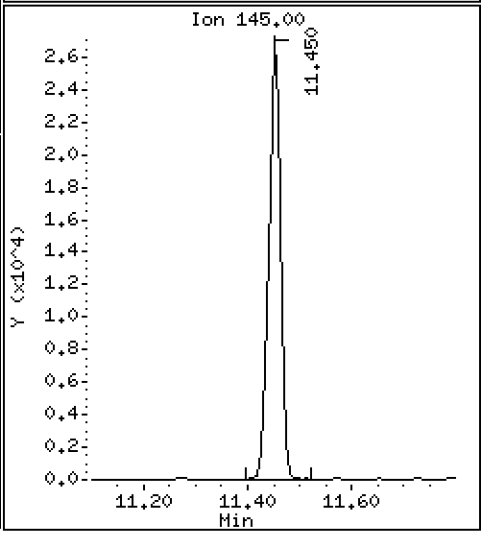


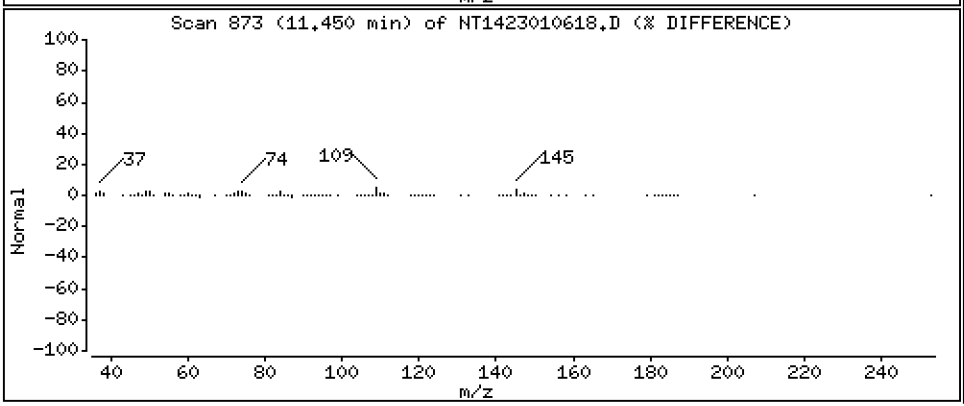












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

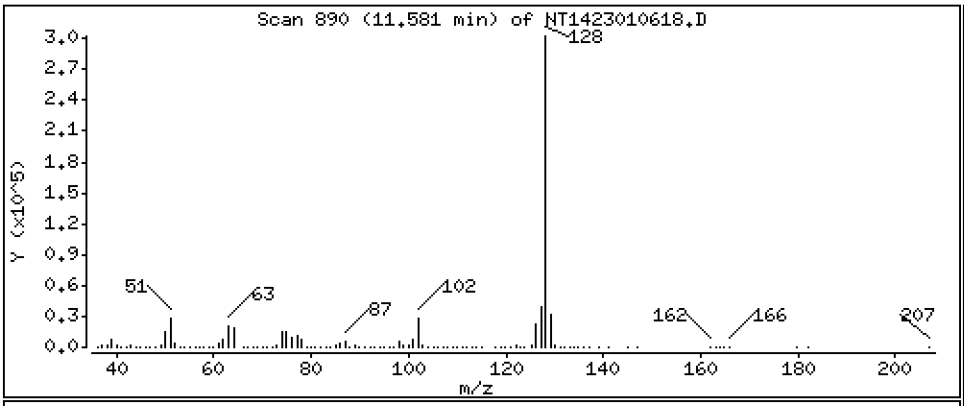
Operator: VTS

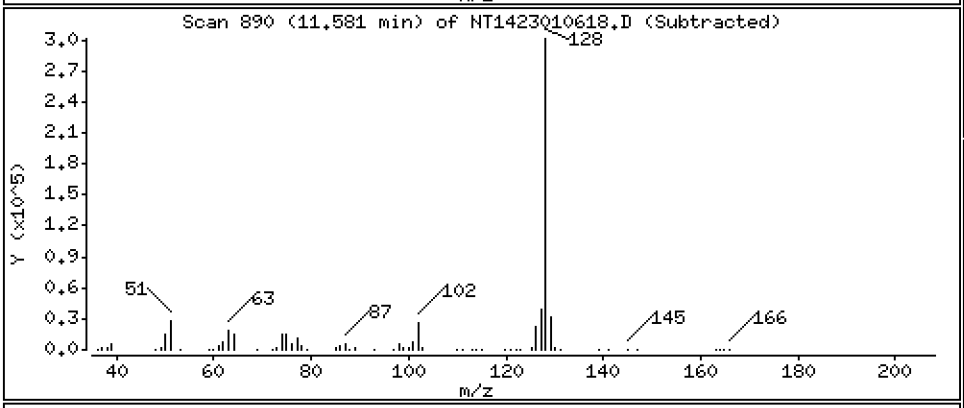
Column phase: ZB-5msi

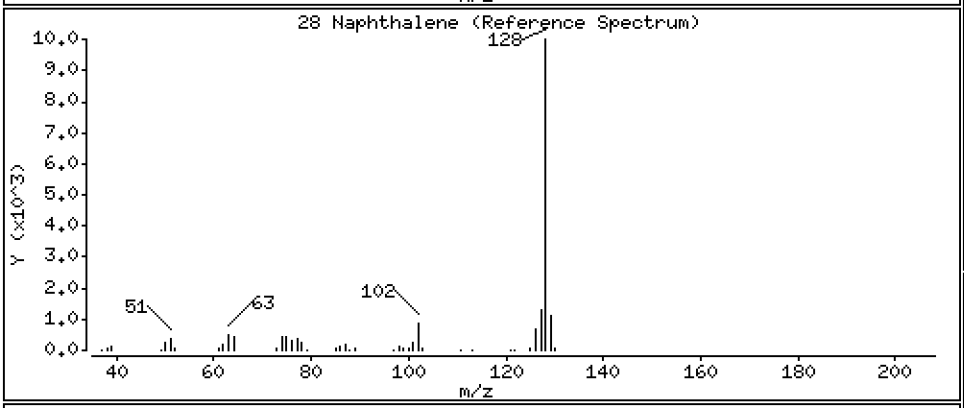
Column diameter: 0.25

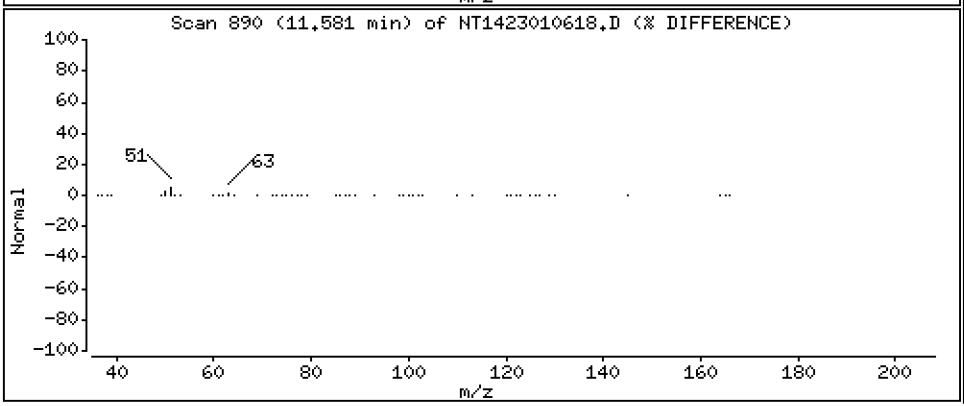
28 Naphthalene

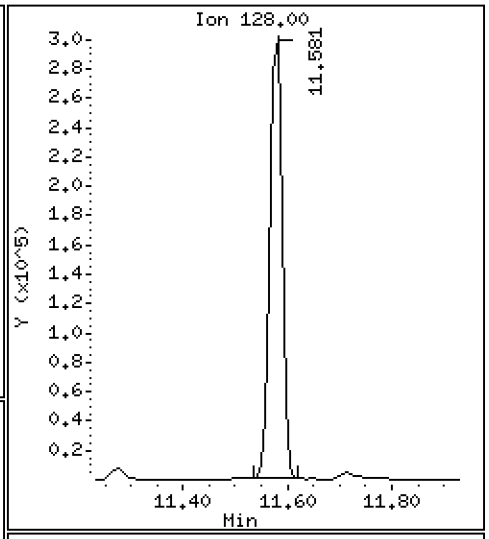
Concentration: 4.339 ug/mL

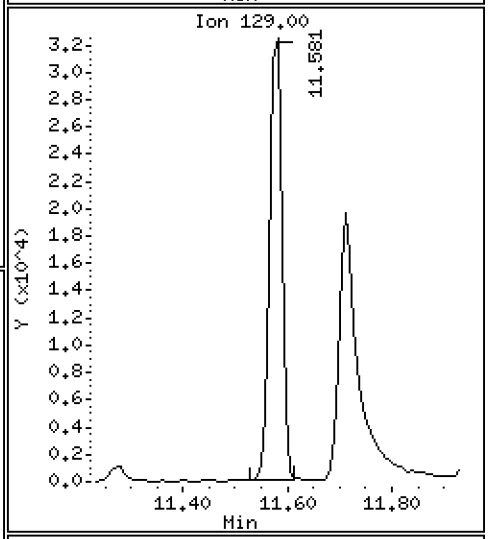


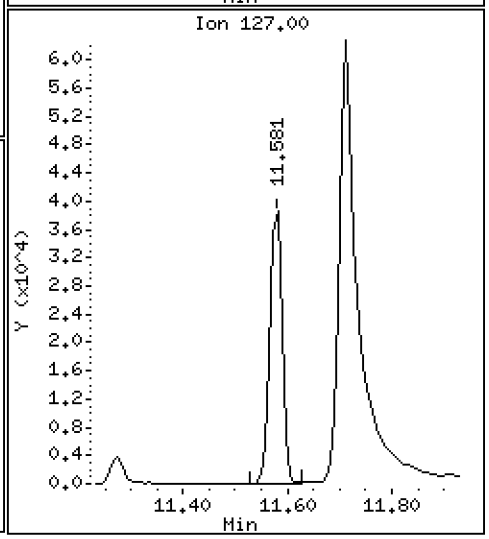












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

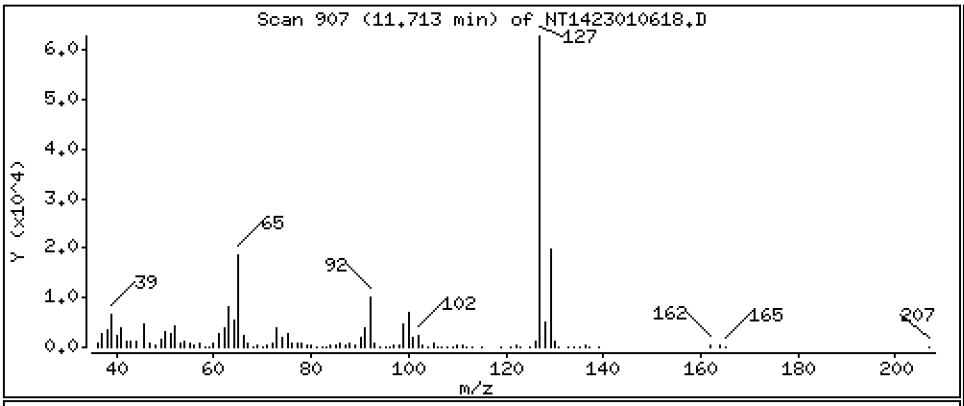
Operator: VTS

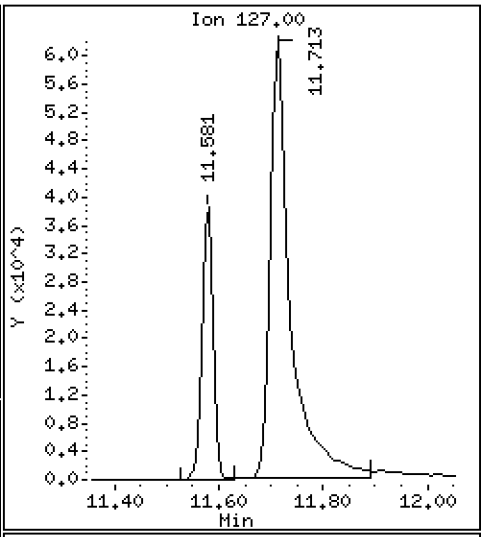
Column phase: ZB-5msi

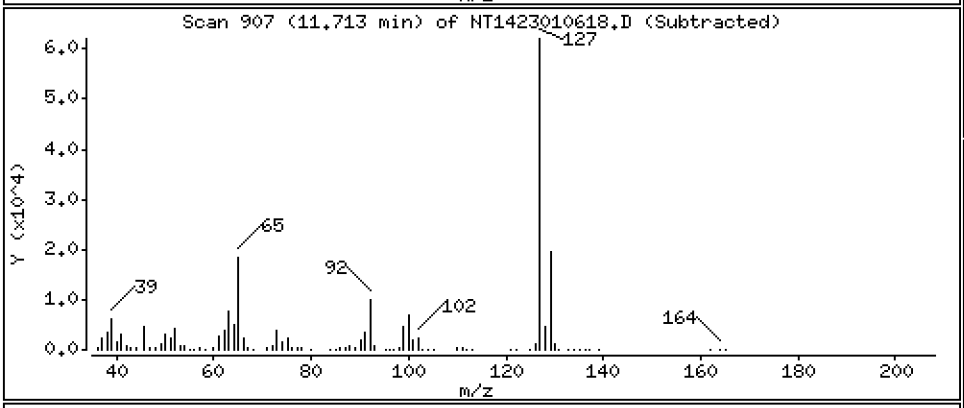
Column diameter: 0.25

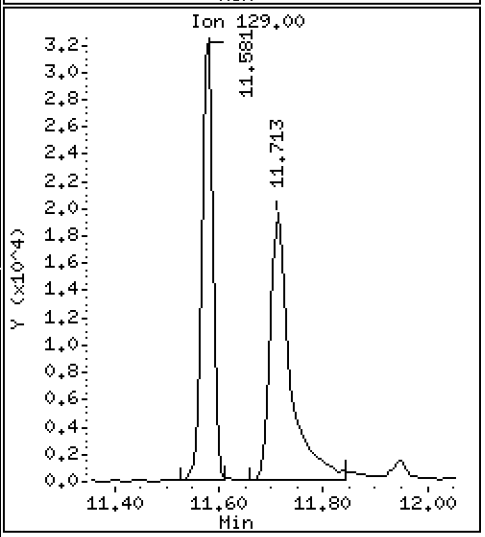
29 4-Chloroaniline

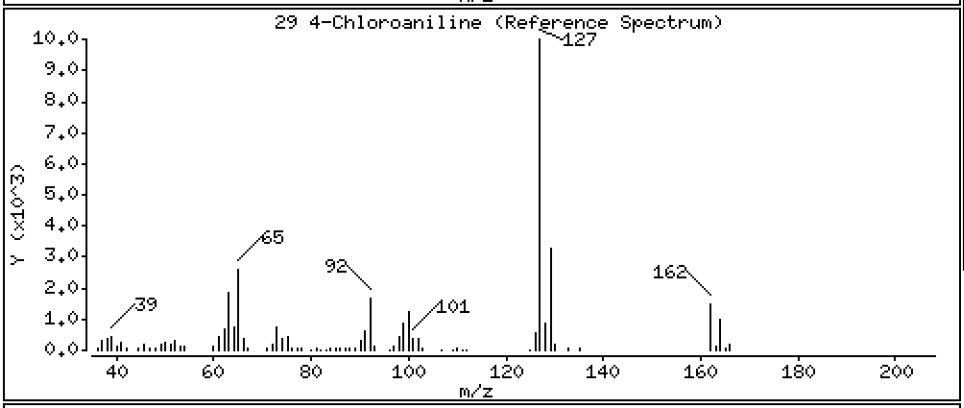
Concentration: 3.747 ug/mL

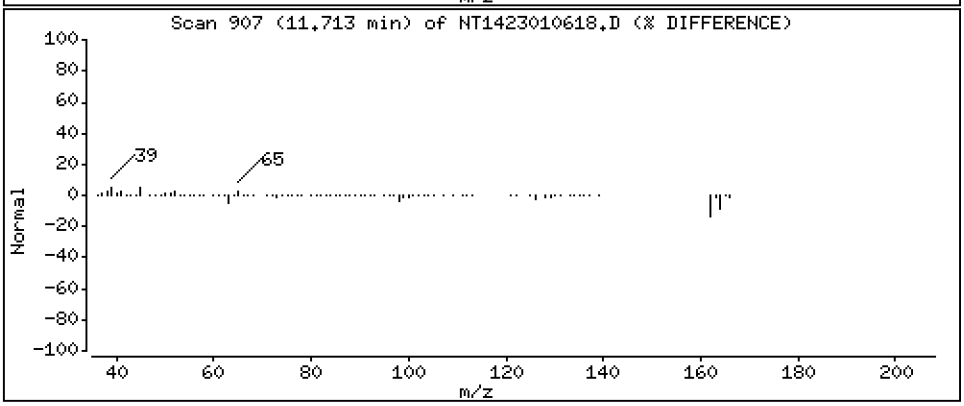












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

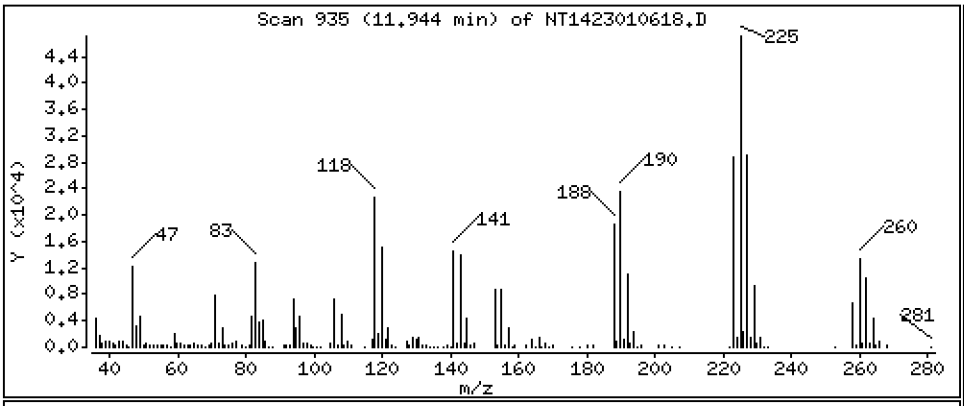
Operator: VTS

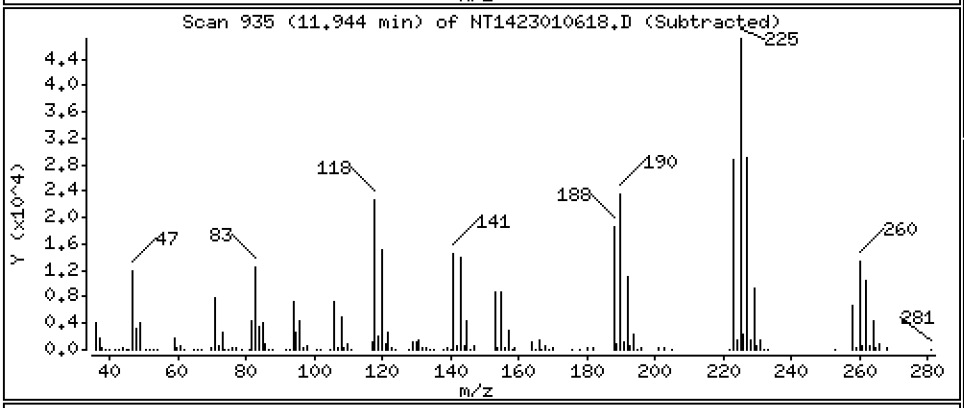
Column phase: ZB-5msi

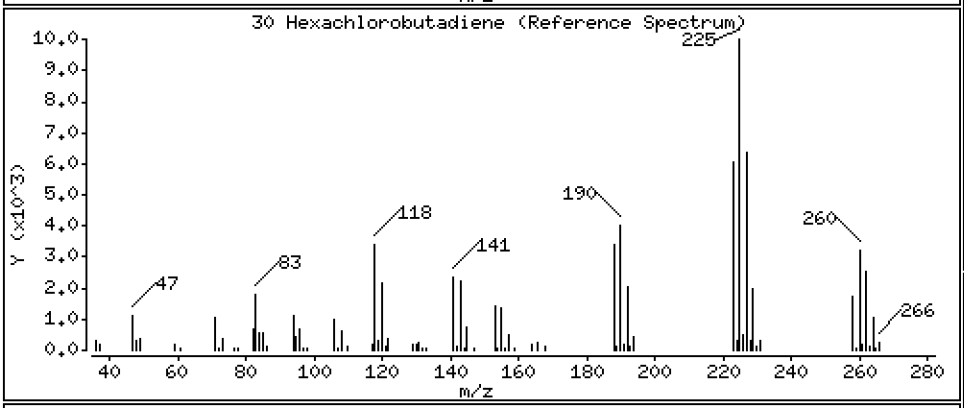
Column diameter: 0.25

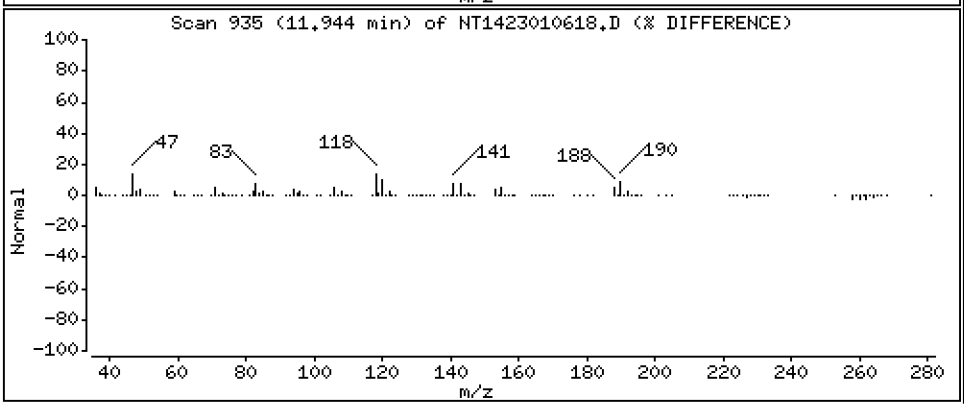
30 Hexachlorobutadiene

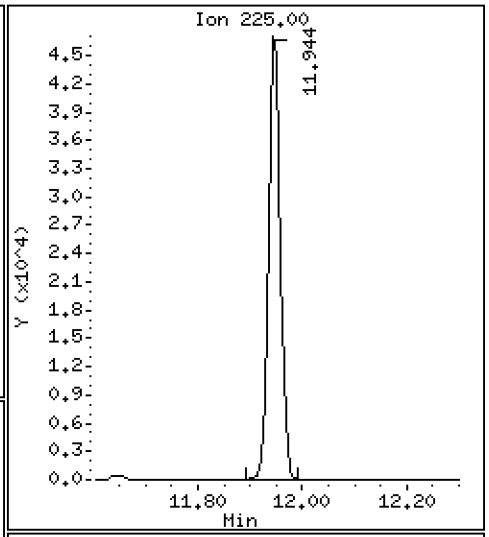
Concentration: 5.081 ug/mL

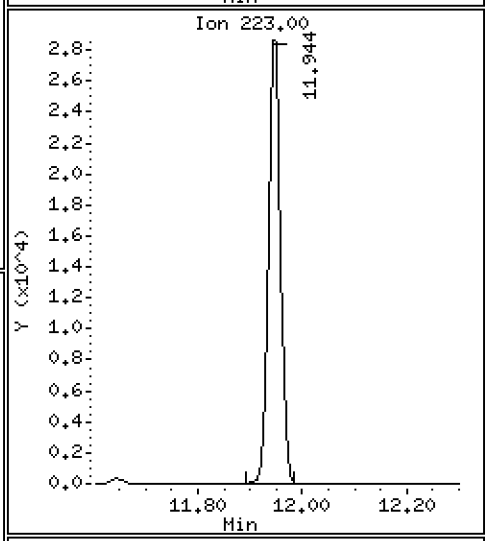


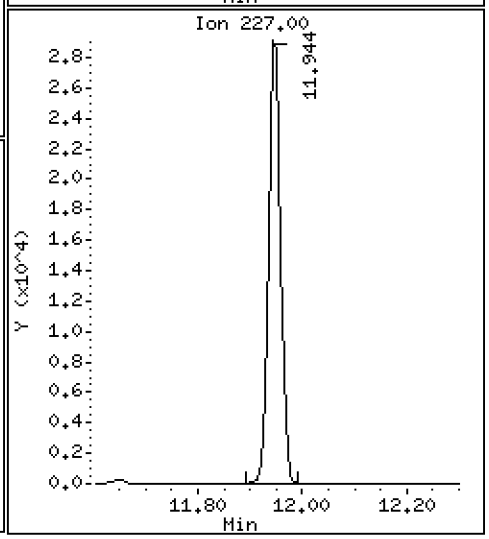












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

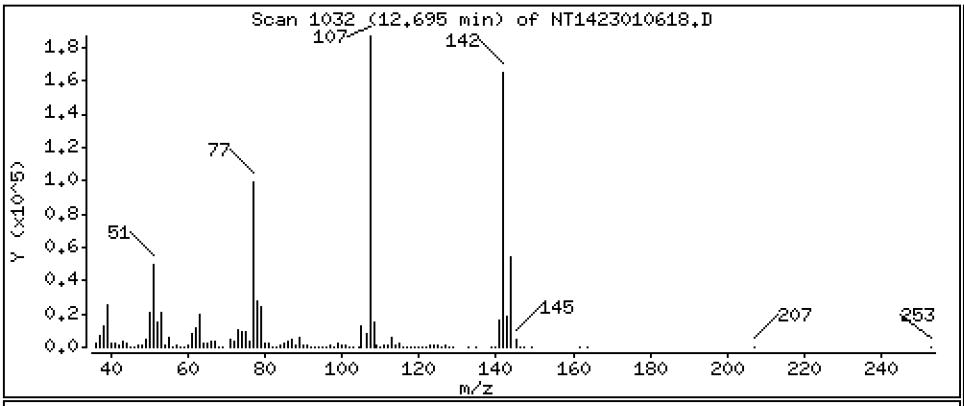
Operator: VTS

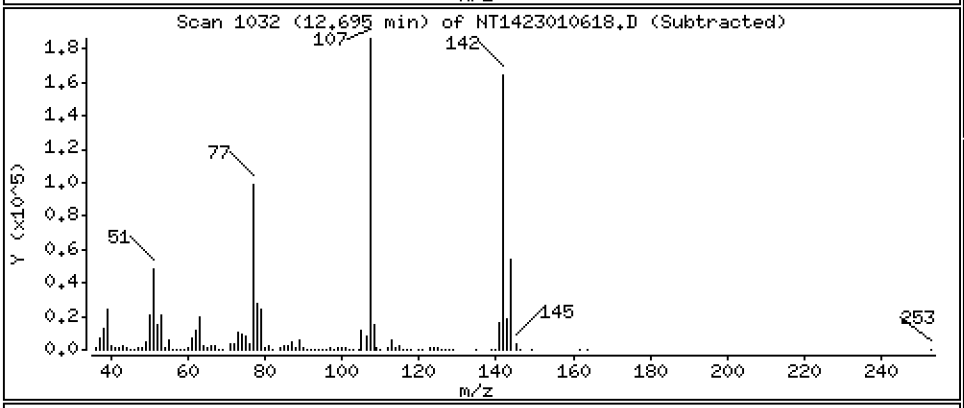
Column phase: ZB-5msi

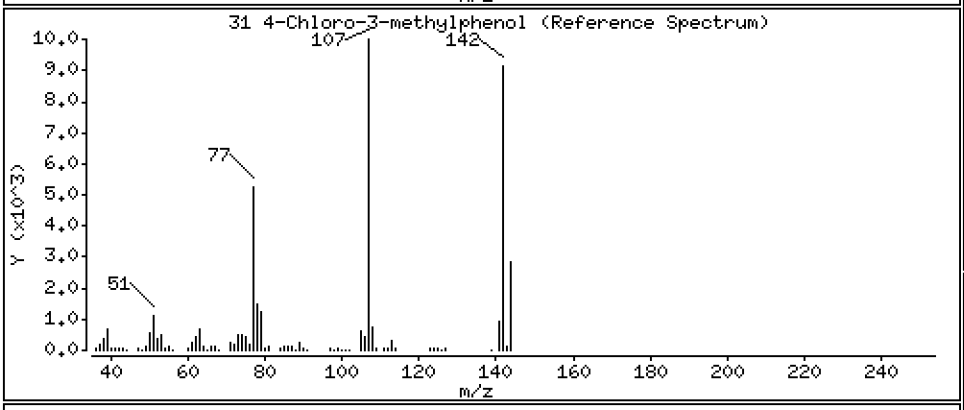
Column diameter: 0.25

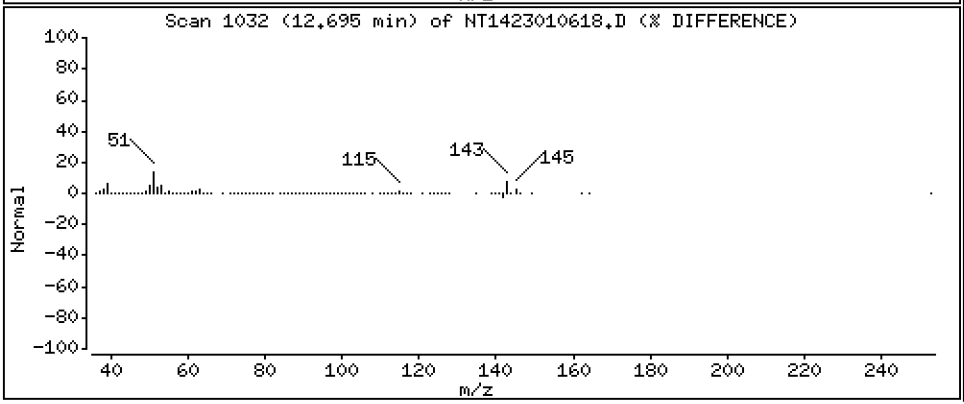
31 4-Chloro-3-methylphenol

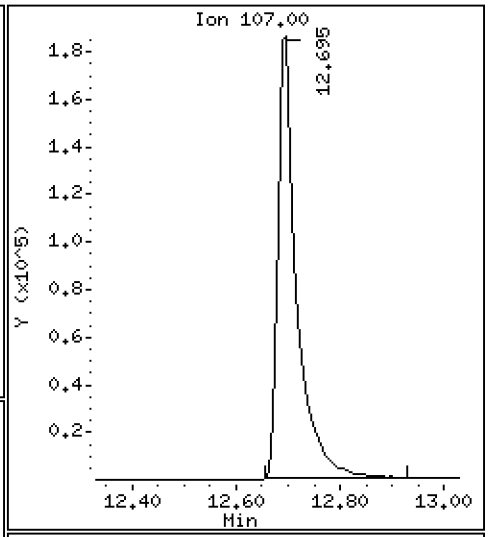
Concentration: 15.73 ug/mL

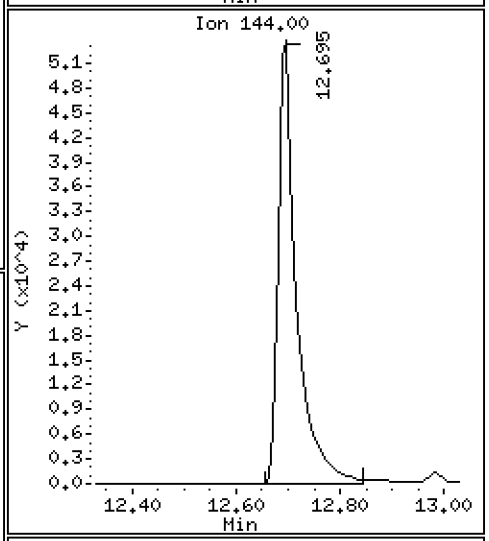


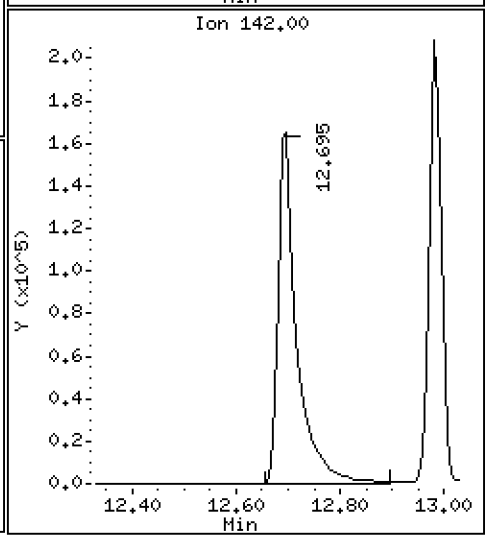












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

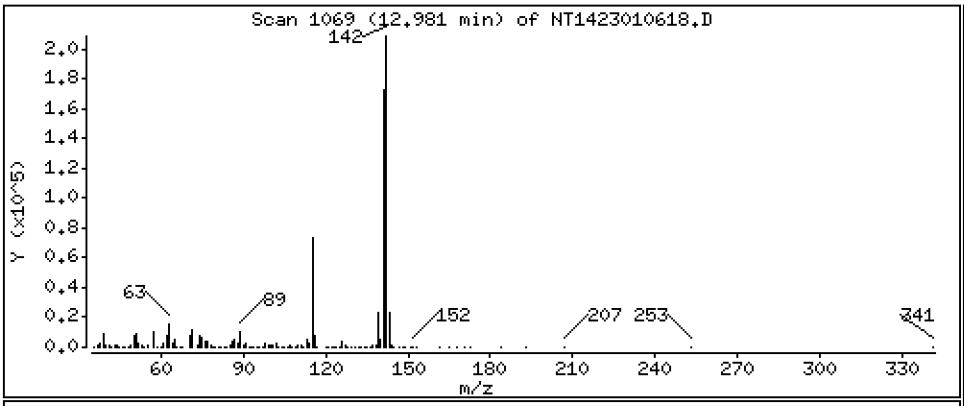
Operator: VTS

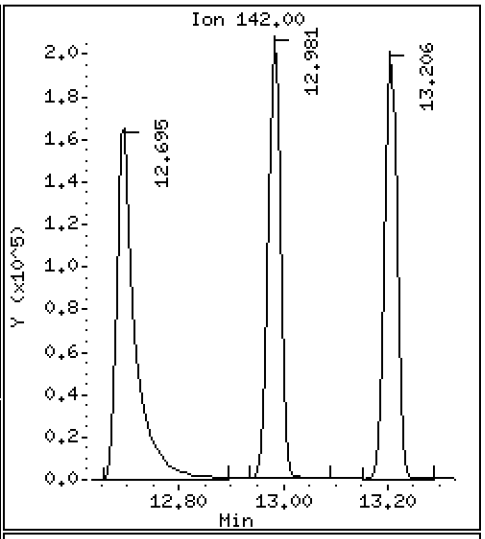
Column phase: ZB-5msi

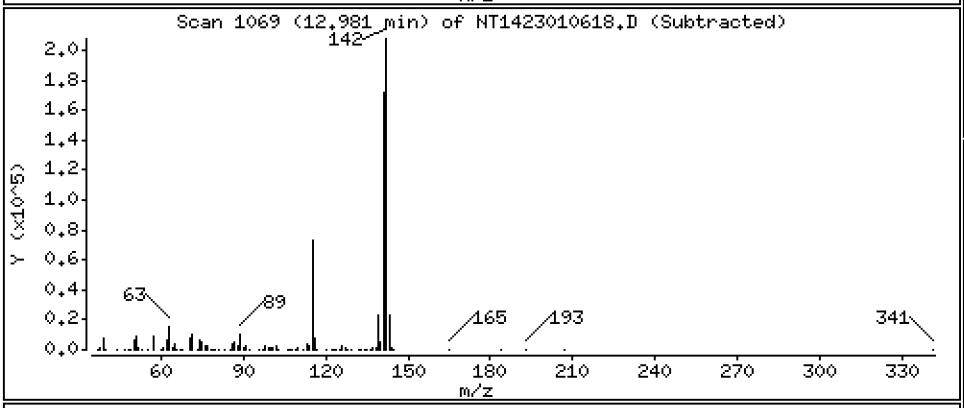
Column diameter: 0.25

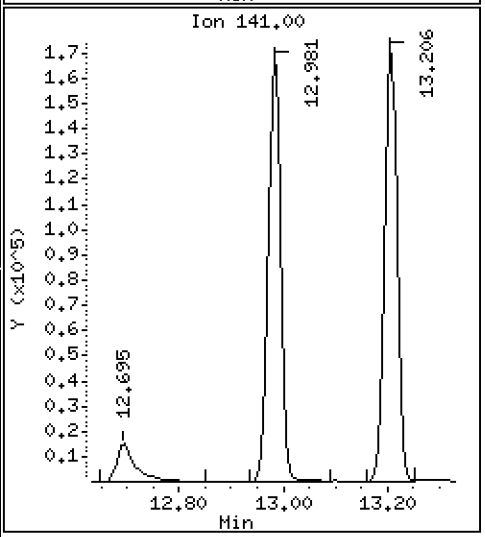
32 2-Methylnaphthalene

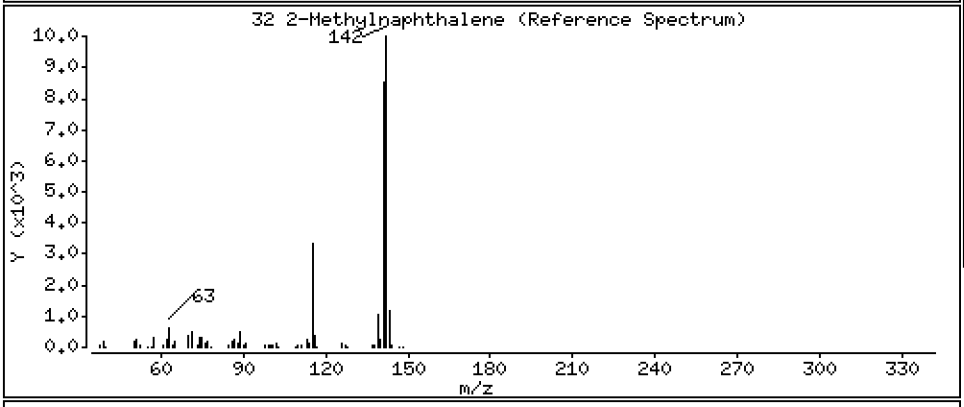
Concentration: 4.137 ug/mL

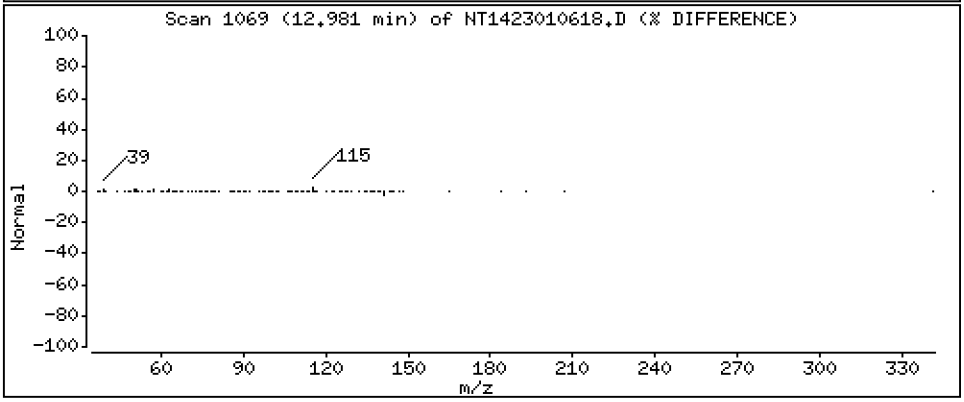












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

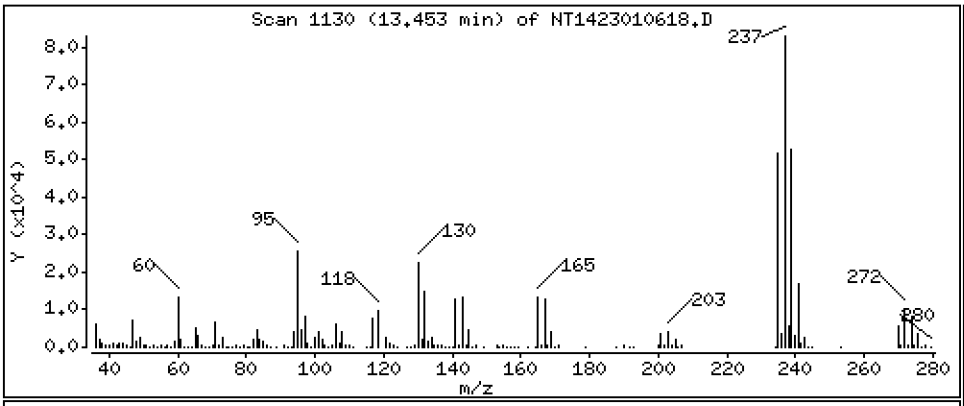
Operator: VTS

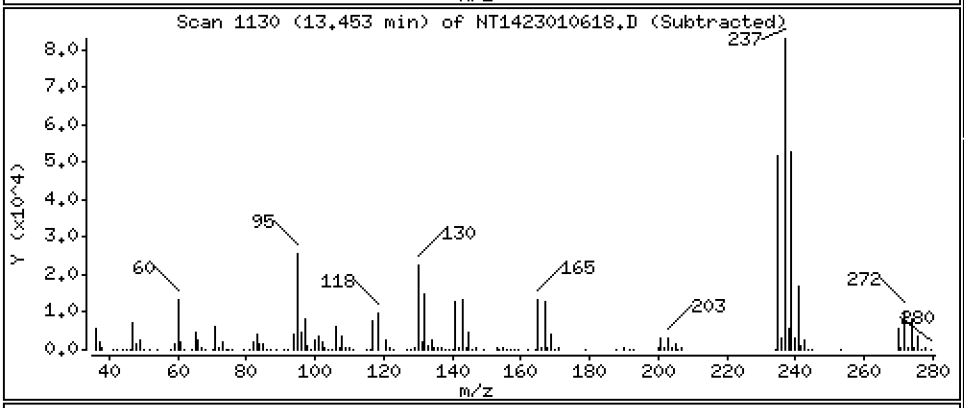
Column phase: ZB-5msi

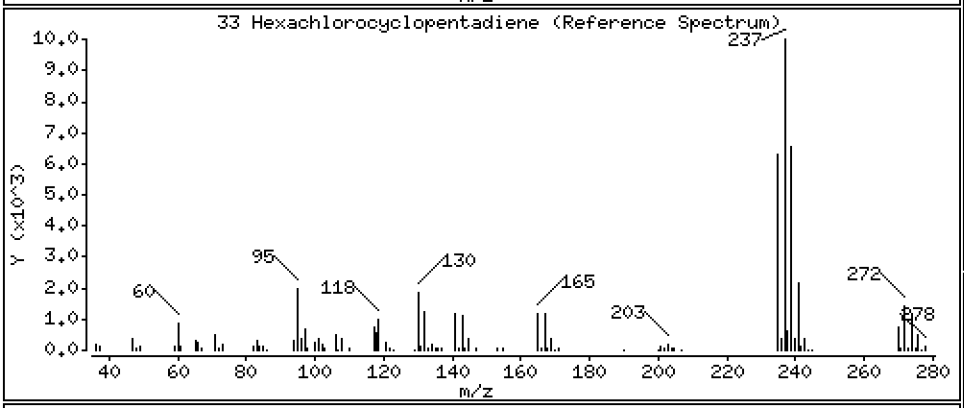
Column diameter: 0.25

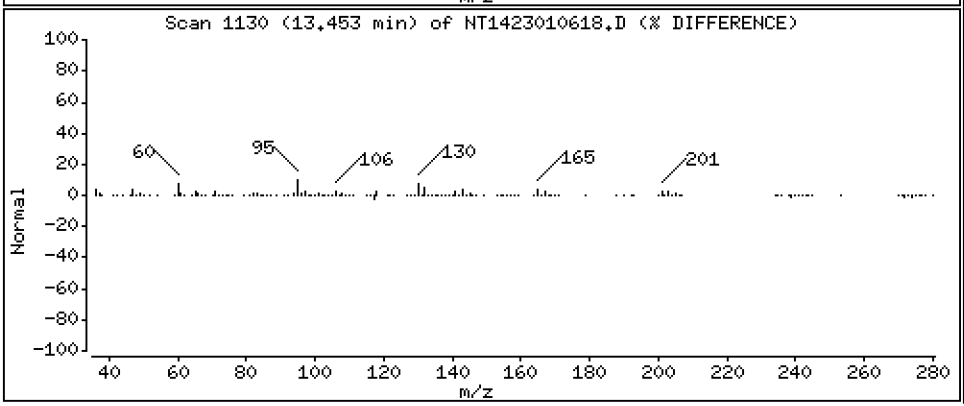
33 Hexachlorocyclopentadiene

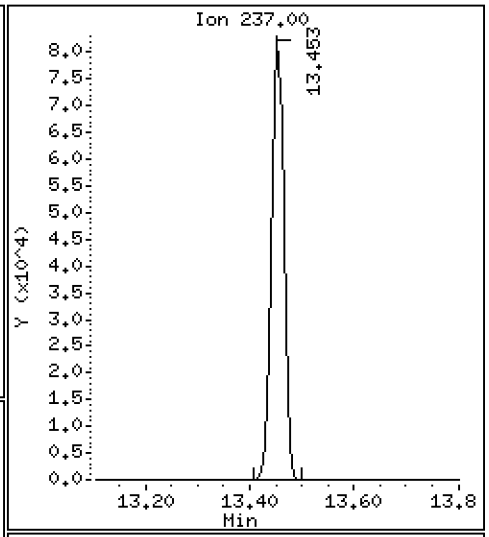
Concentration: 7.623 ug/mL

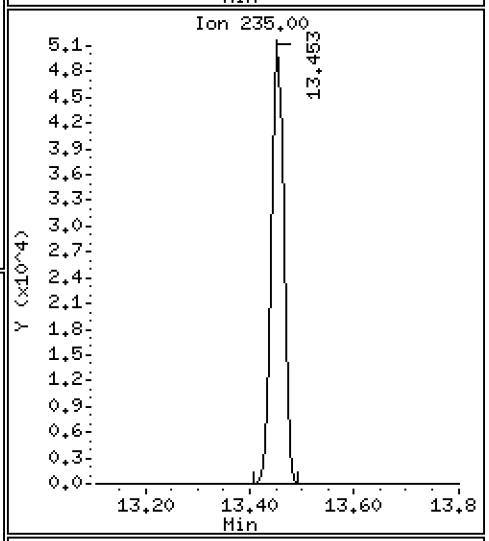


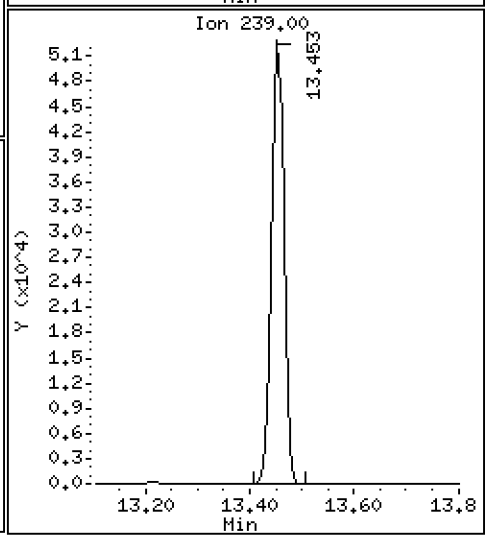












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

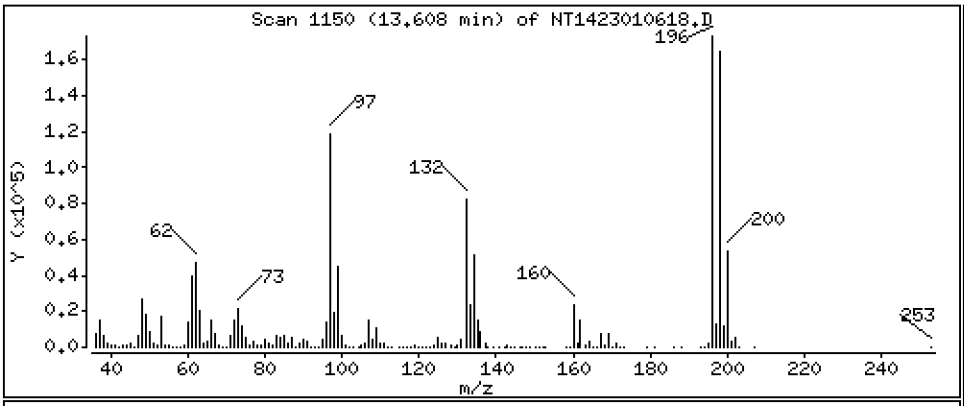
Operator: VTS

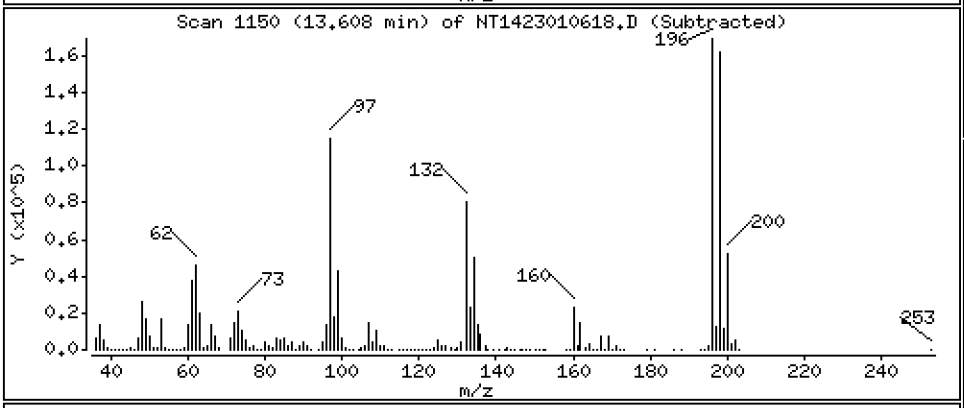
Column phase: ZB-5msi

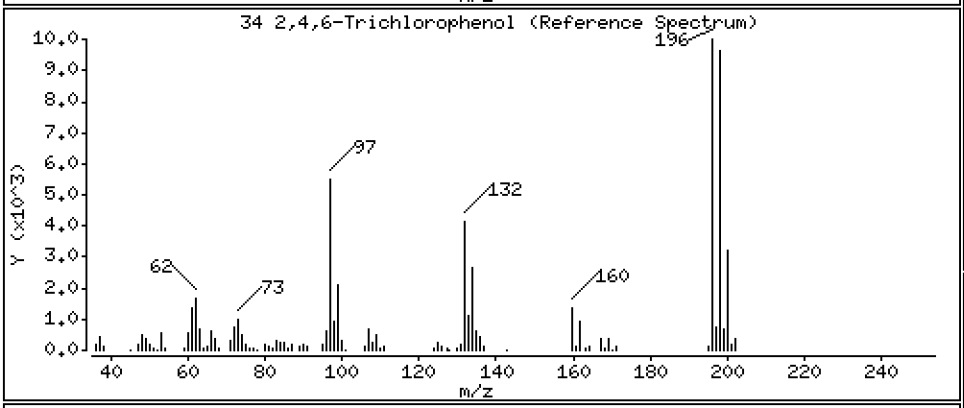
Column diameter: 0.25

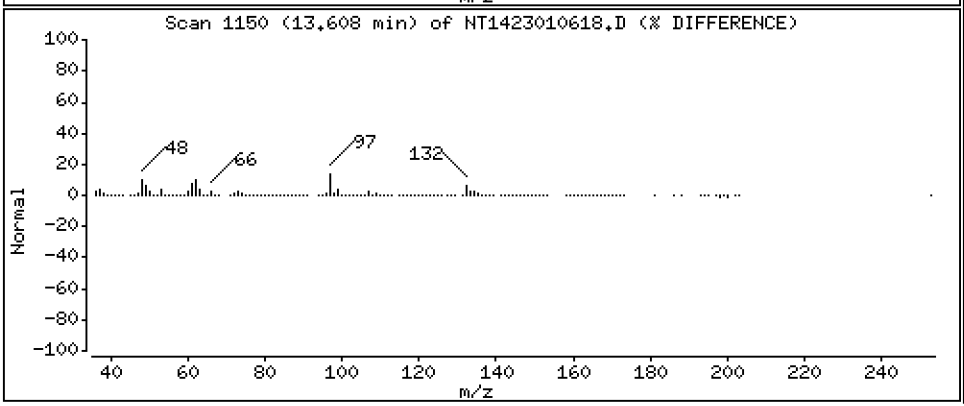
34 2,4,6-Trichlorophenol

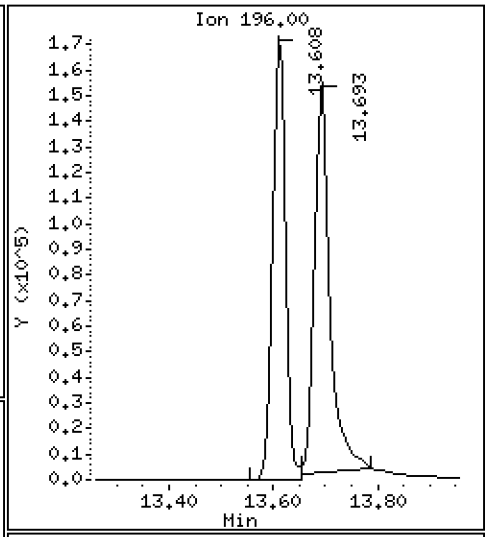
Concentration: 15.20 ug/mL

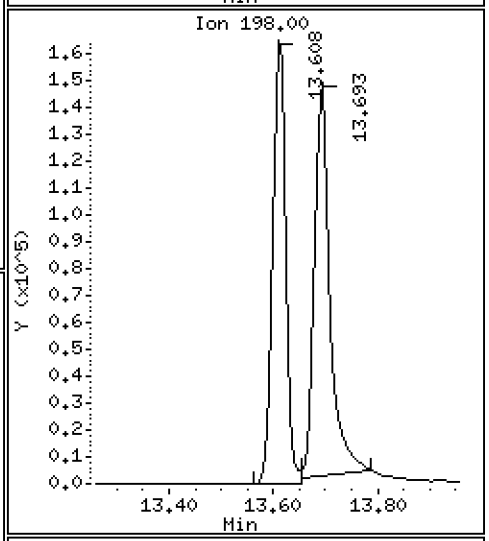


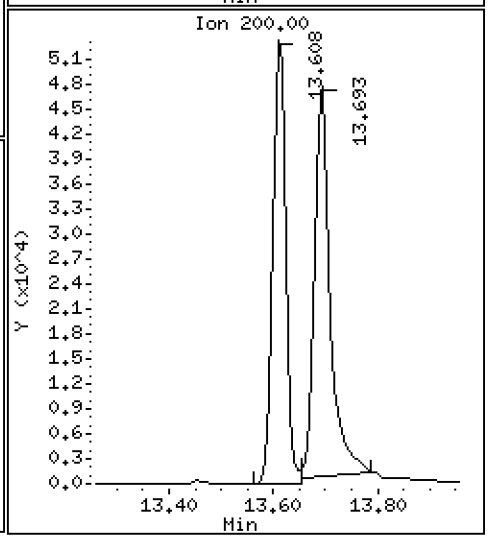












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

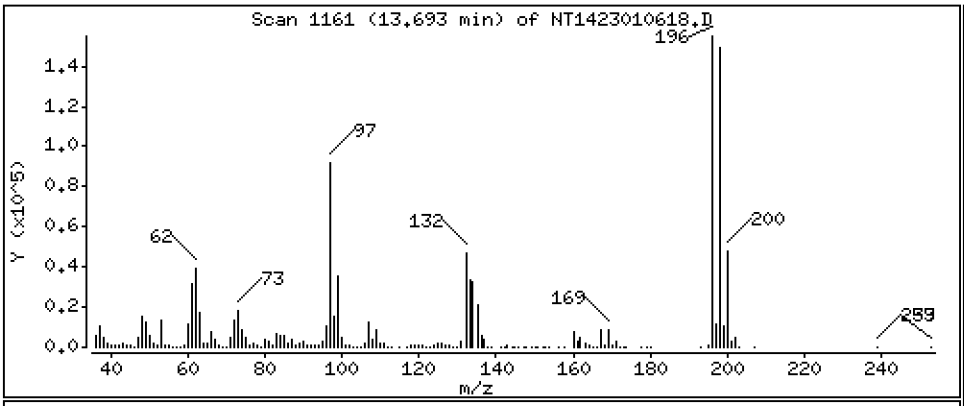
Operator: VTS

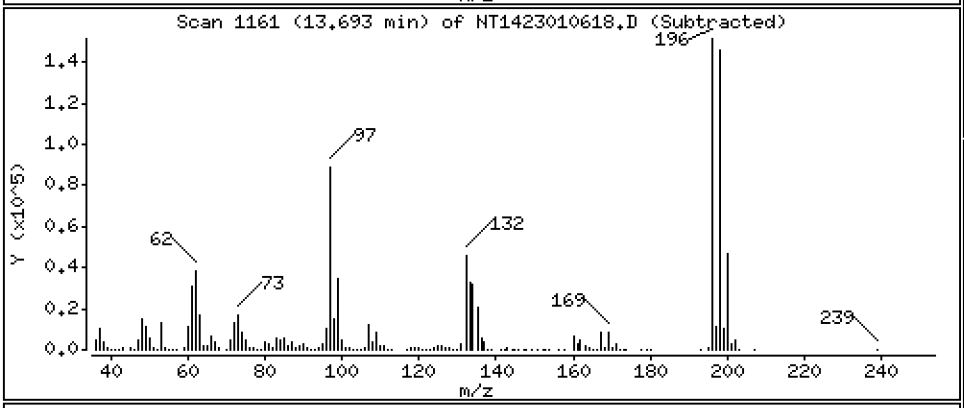
Column phase: ZB-5msi

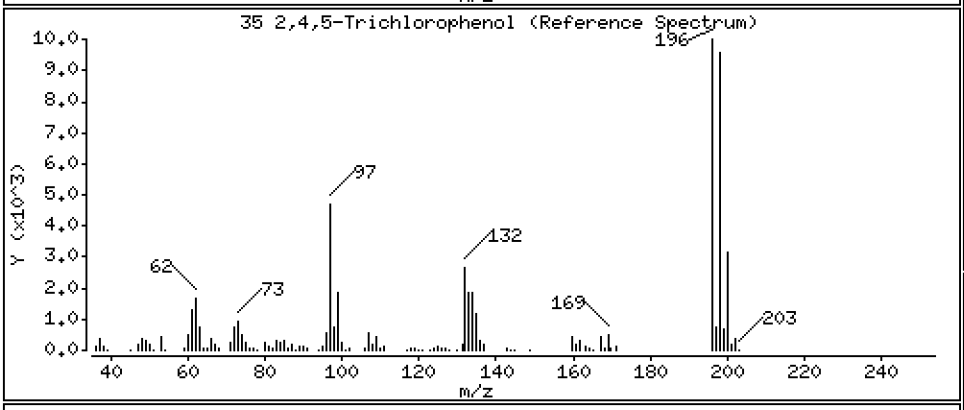
Column diameter: 0.25

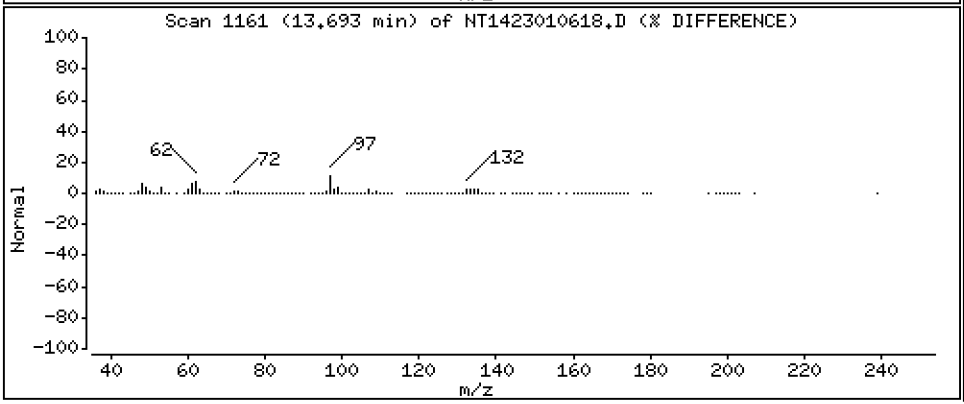
35 2,4,5-Trichlorophenol

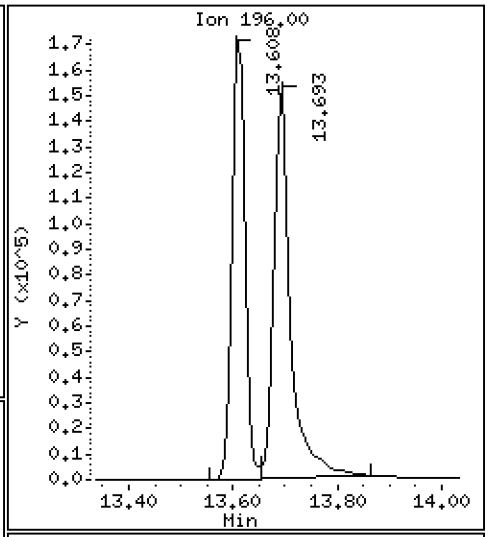
Concentration: 15.43 ug/mL

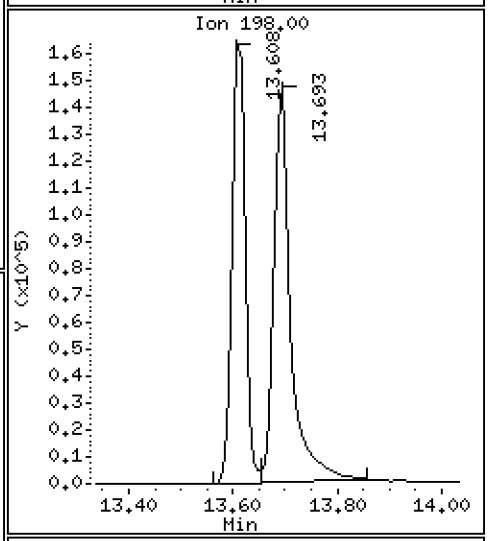


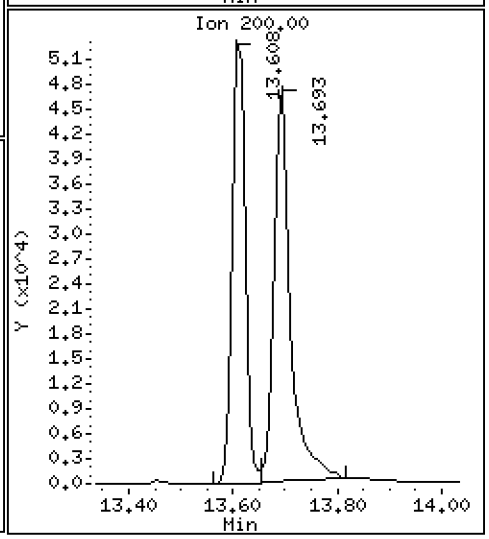












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

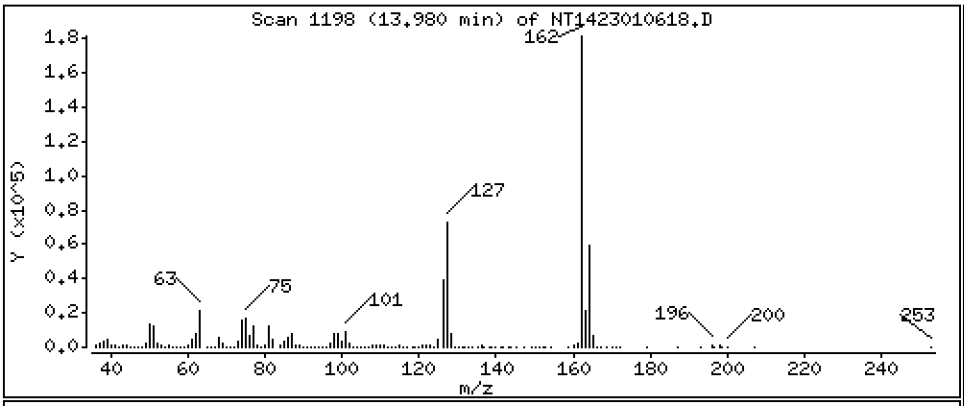
Operator: VTS

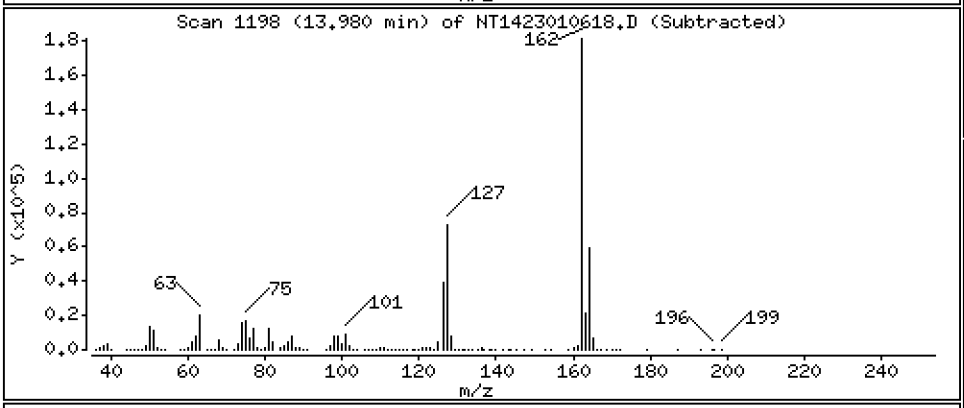
Column phase: ZB-5msi

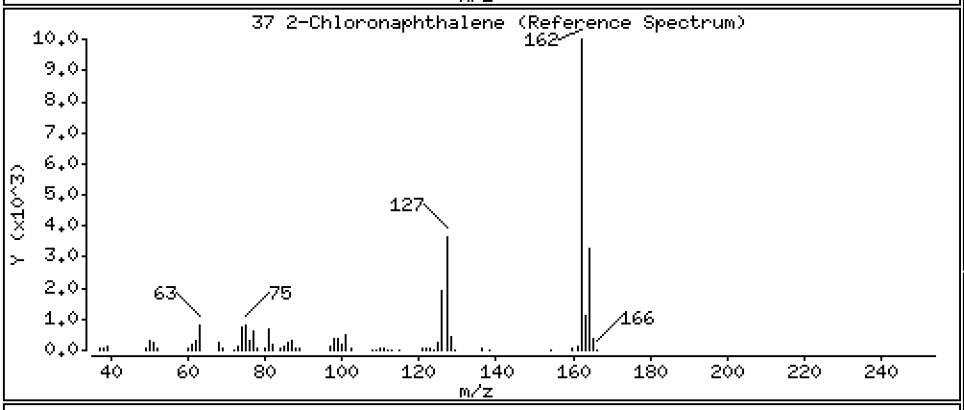
Column diameter: 0.25

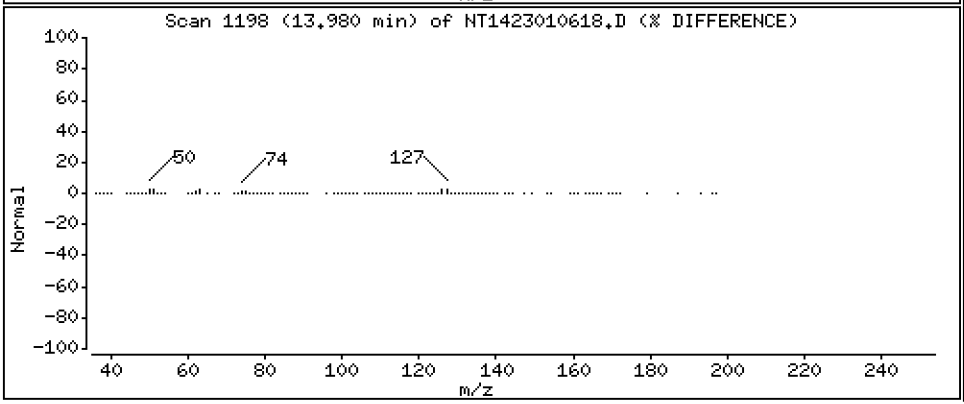
37 2-Chloronaphthalene

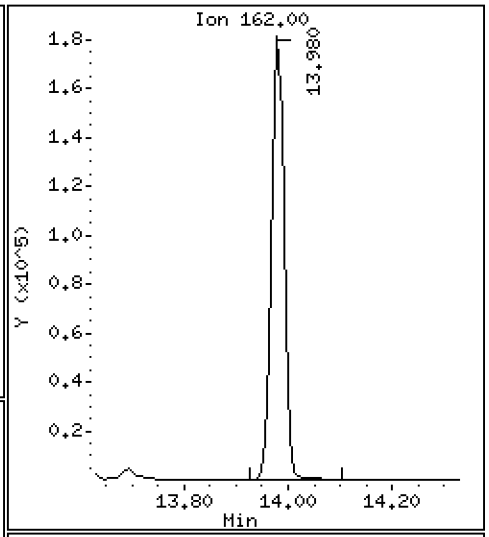
Concentration: 4.507 ug/mL

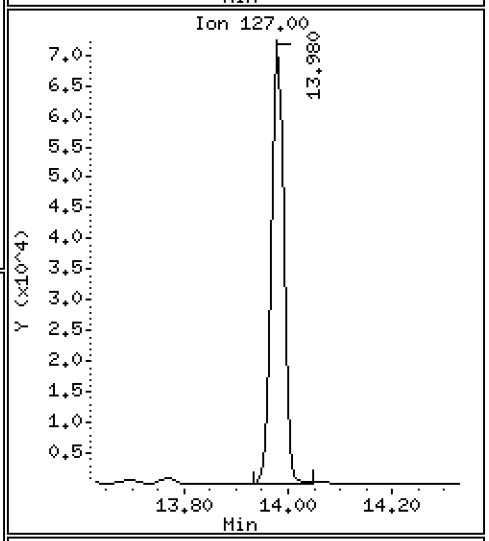


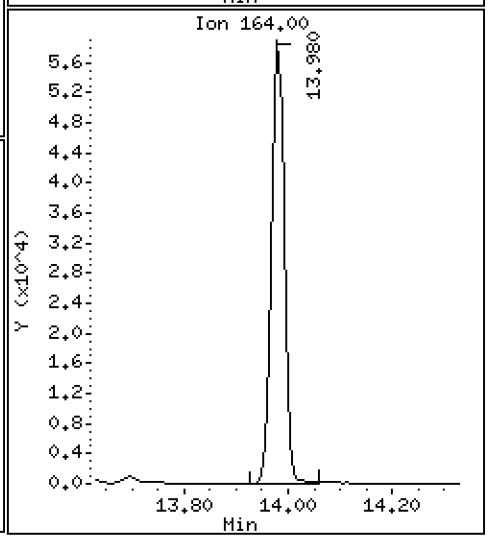












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

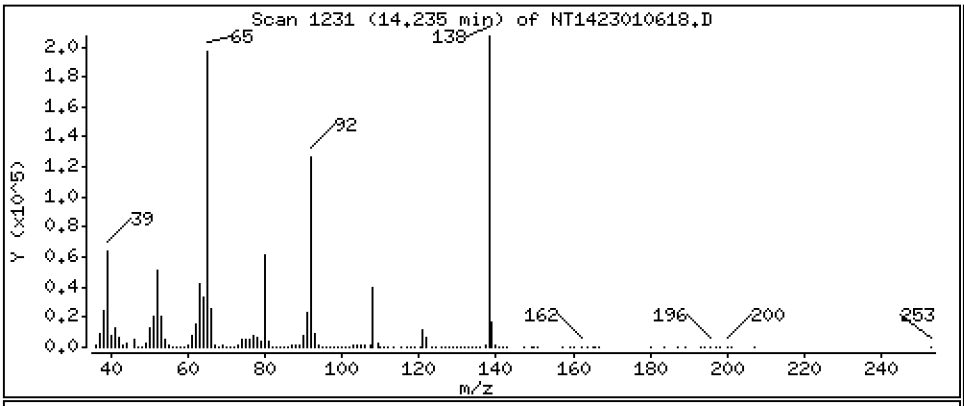
Operator: VTS

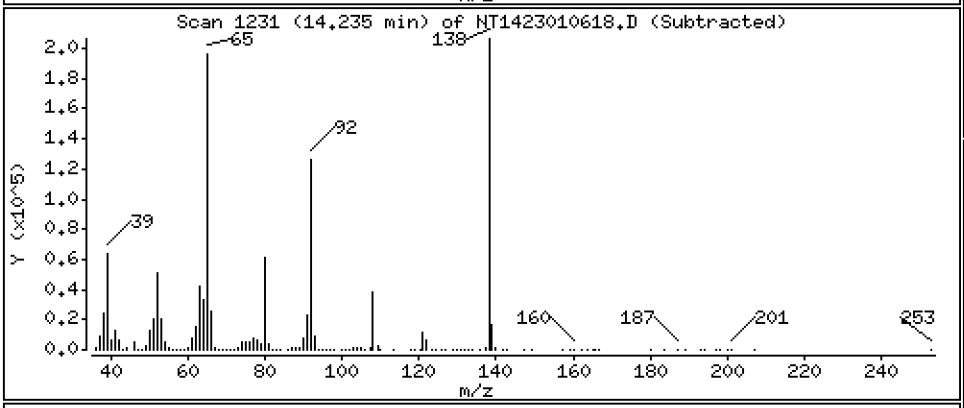
Column phase: ZB-5msi

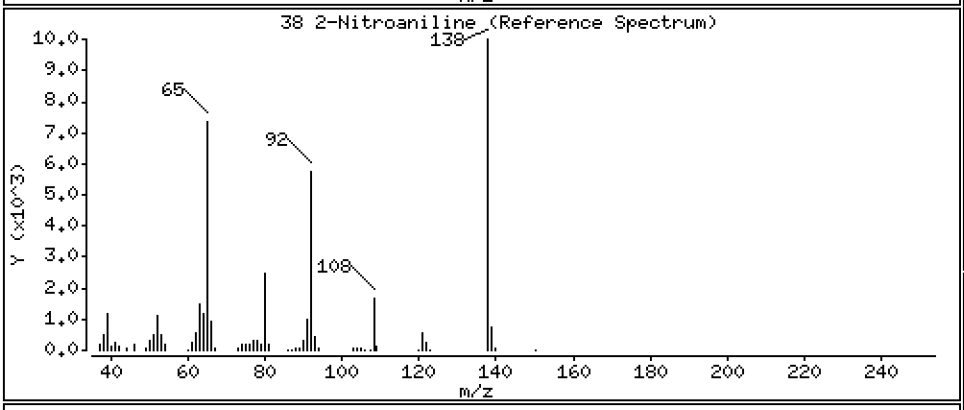
Column diameter: 0.25

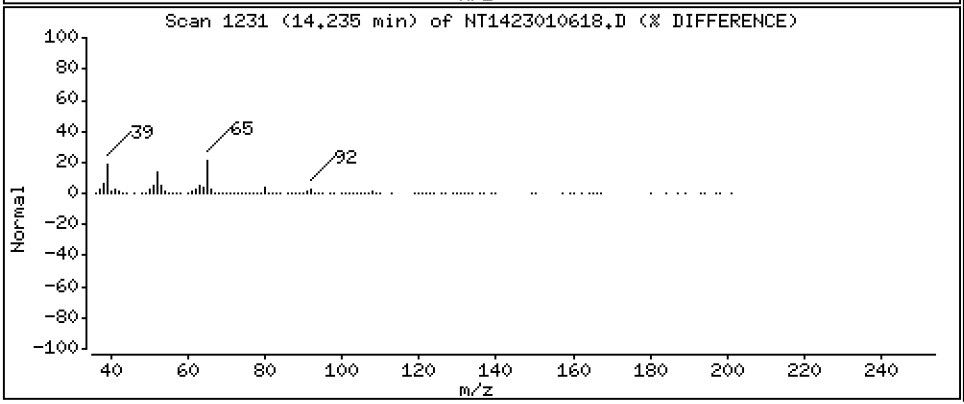
38 2-Nitroaniline

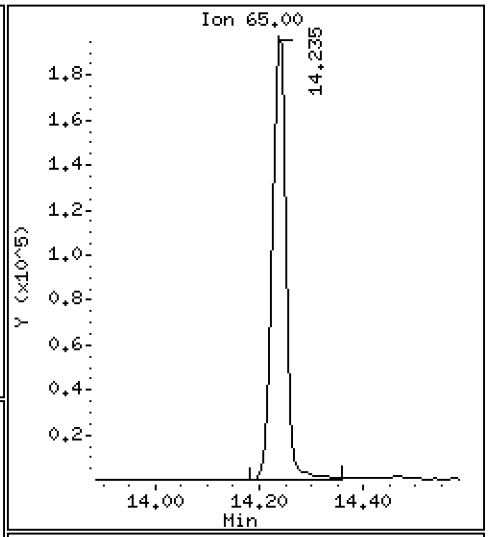
Concentration: 20.66 ug/mL

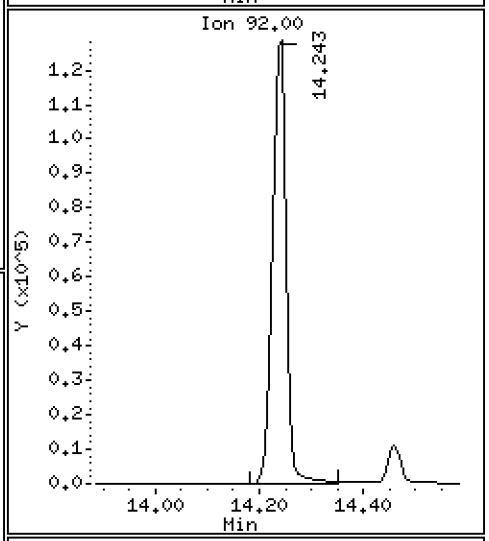


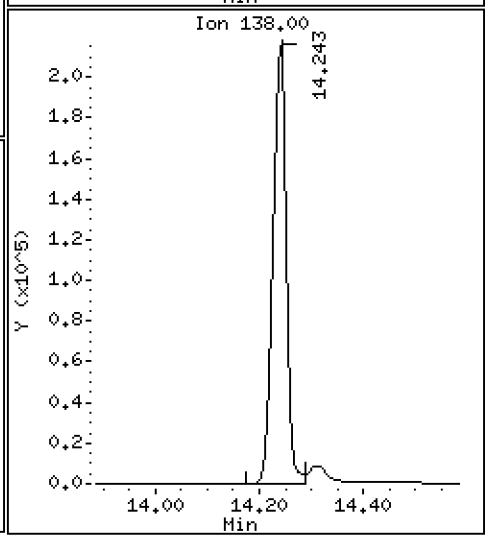












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

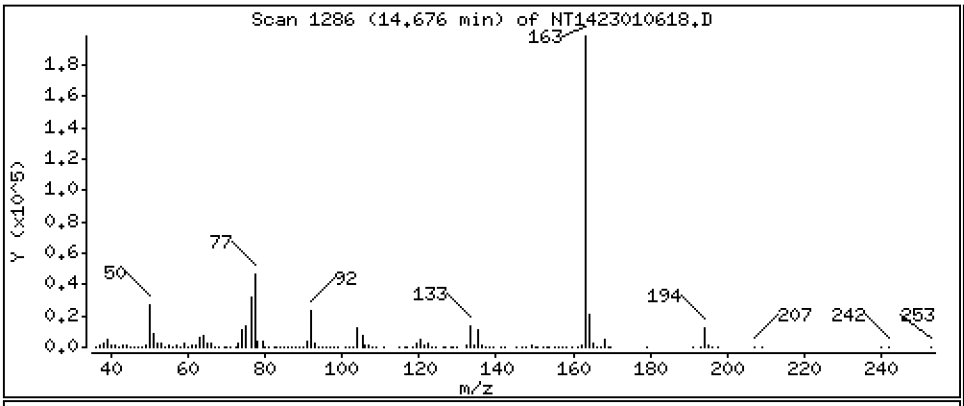
Operator: VTS

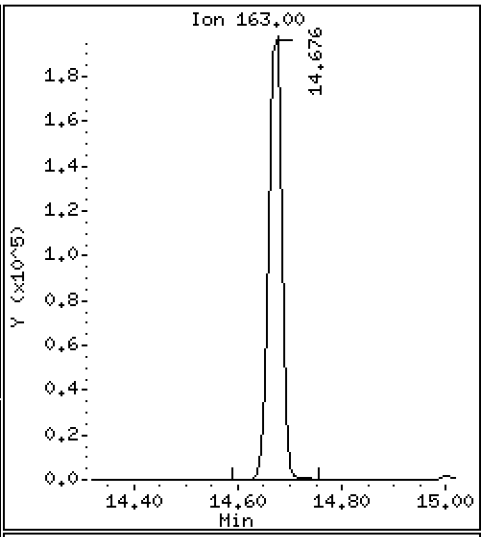
Column phase: ZB-5msi

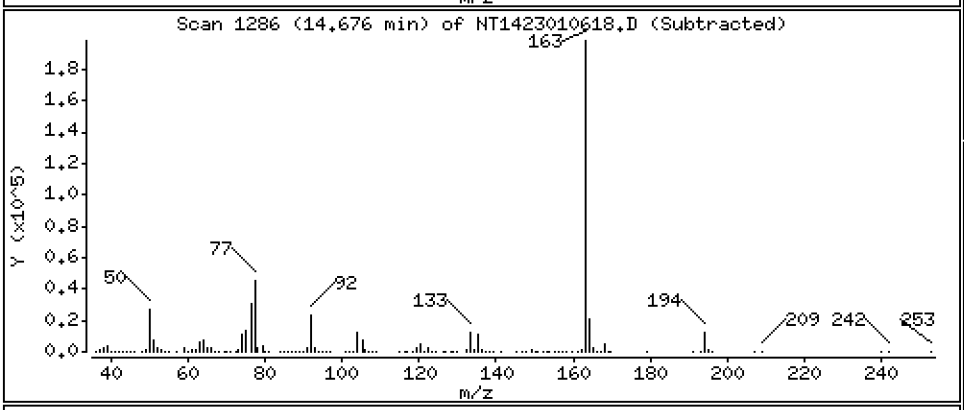
Column diameter: 0.25

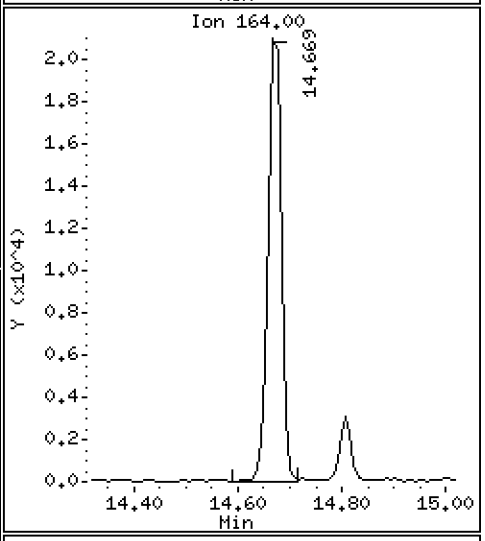
39 Dimethylphthalate

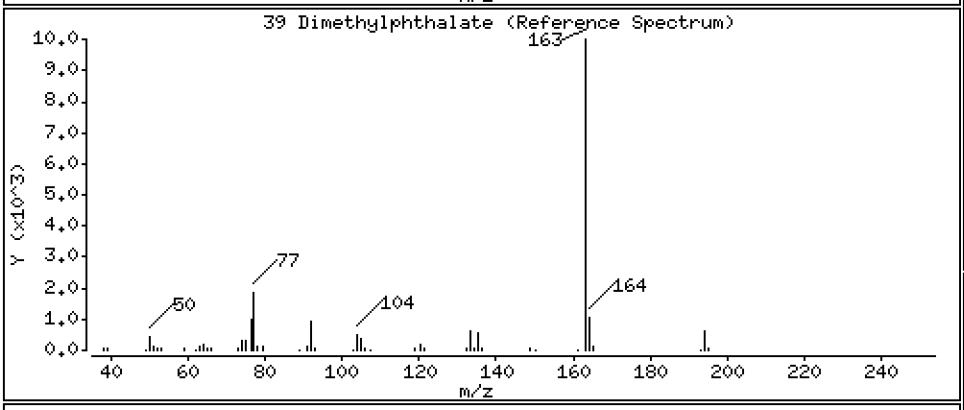
Concentration: 5.764 ug/mL

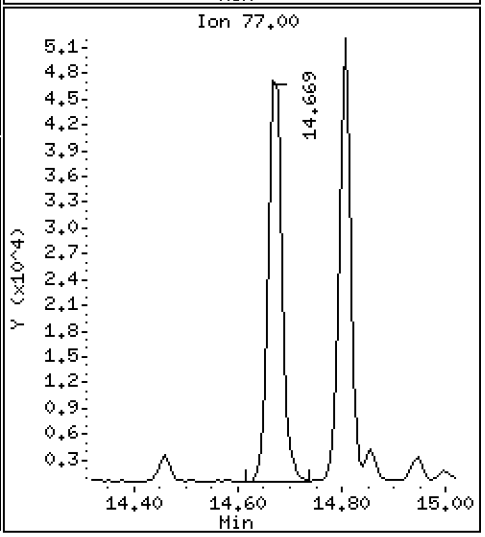


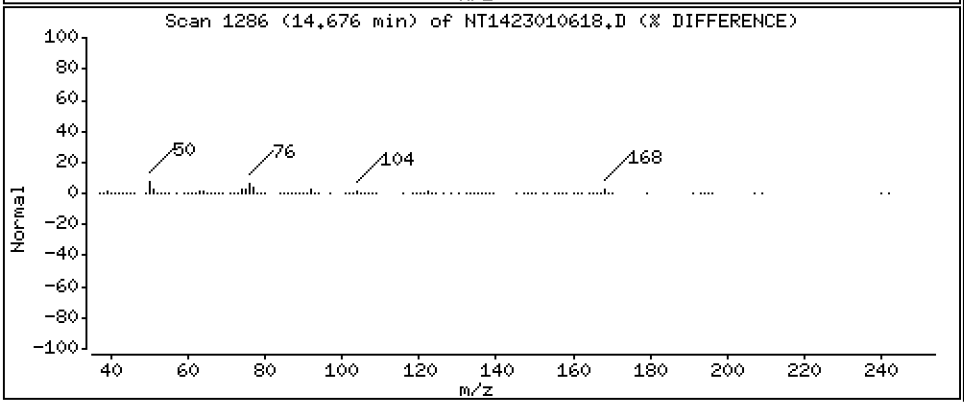












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

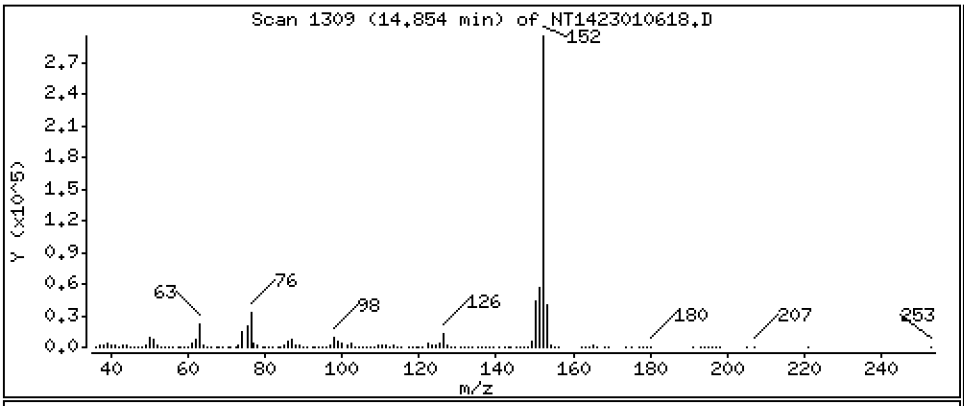
Operator: VTS

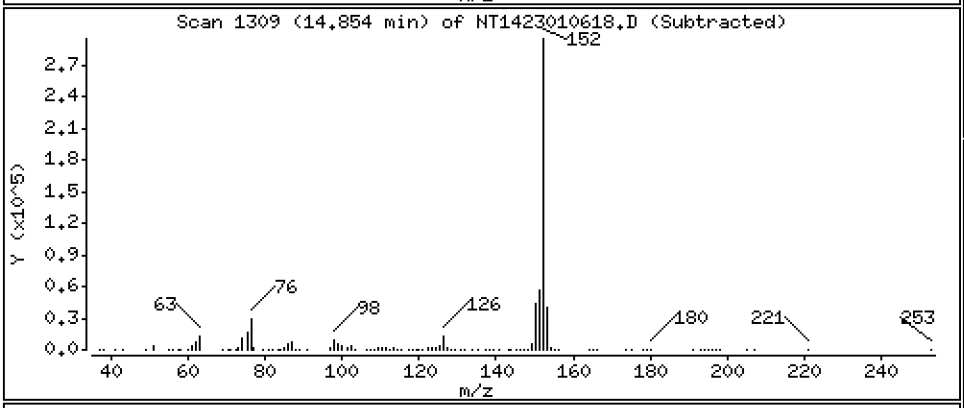
Column phase: ZB-5msi

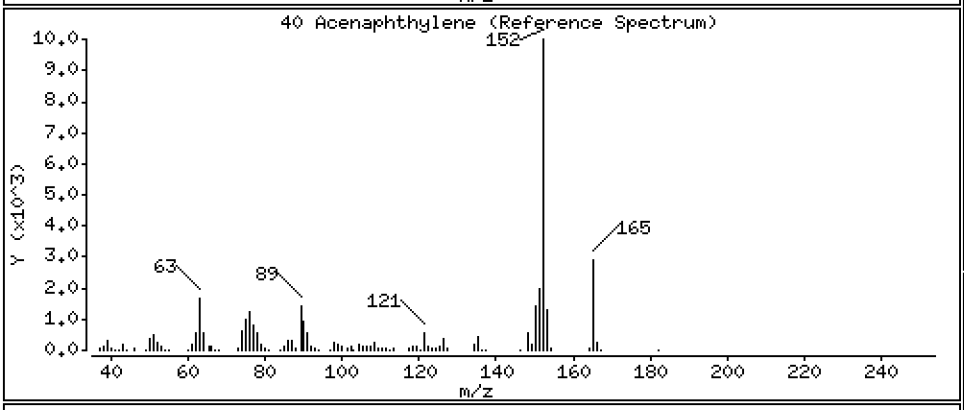
Column diameter: 0.25

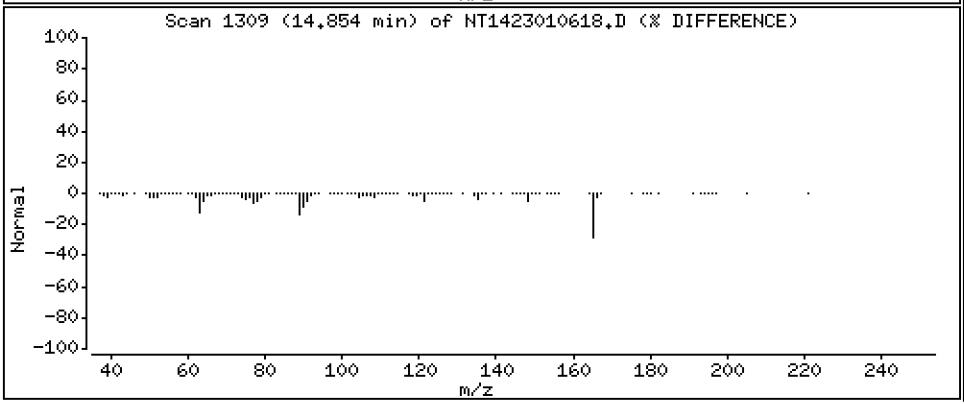
40 Acenaphthylene

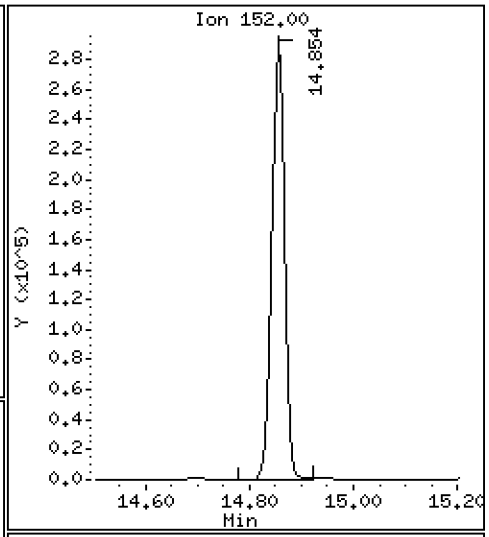
Concentration: 4.793 ug/mL

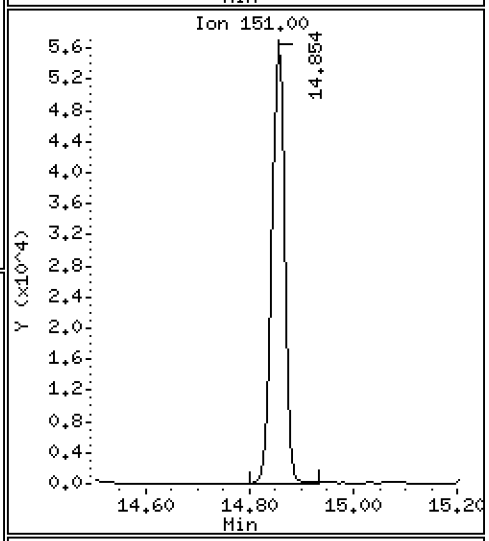


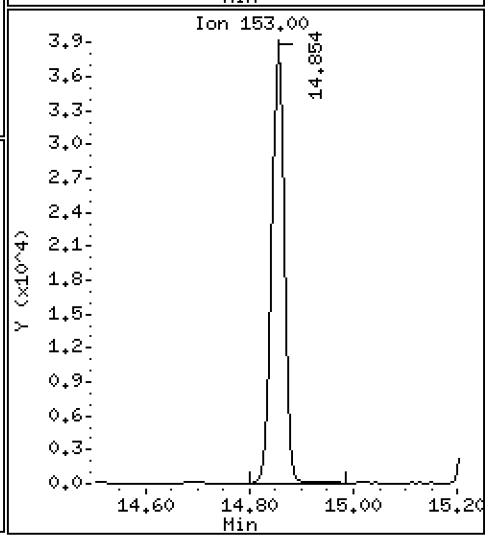












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

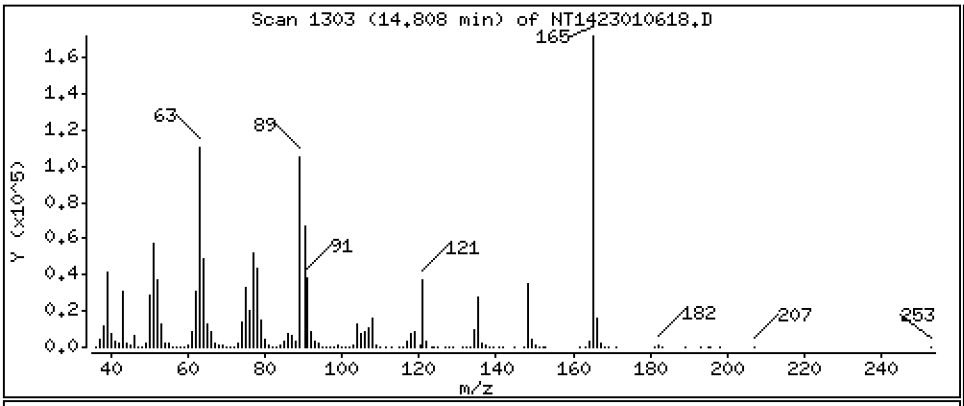
Operator: VTS

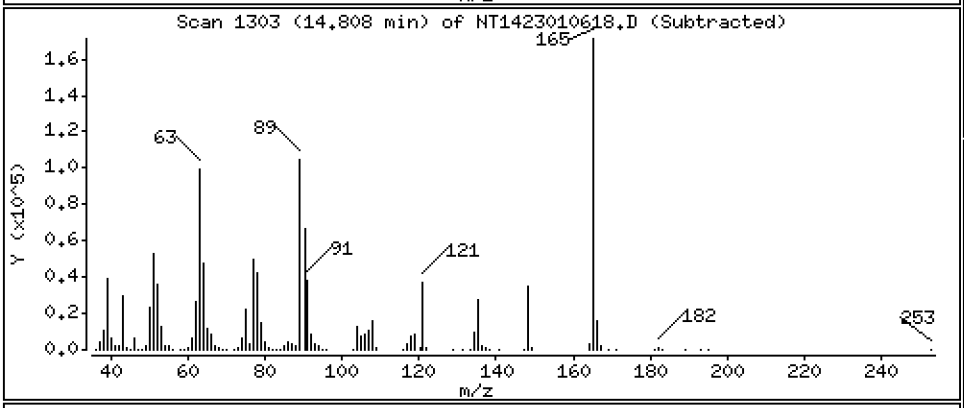
Column phase: ZB-5msi

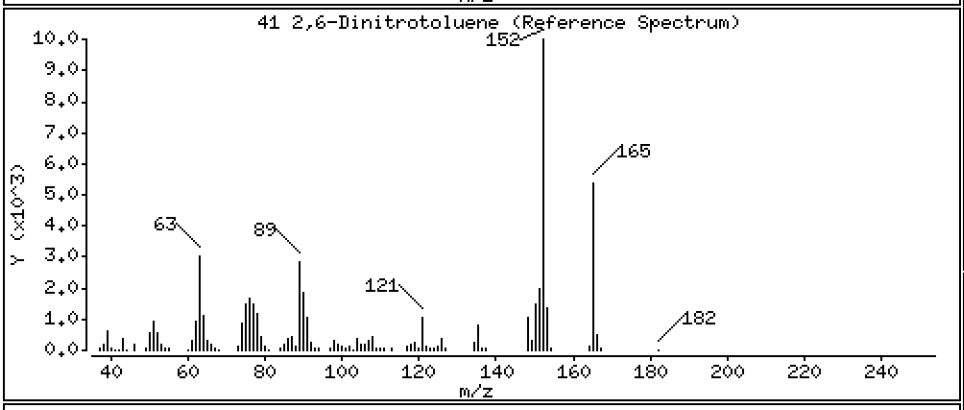
Column diameter: 0.25

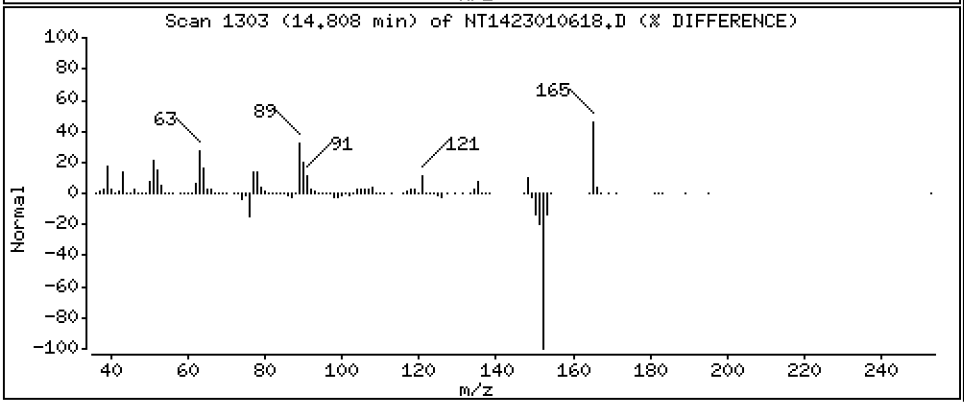
41 2,6-Dinitrotoluene

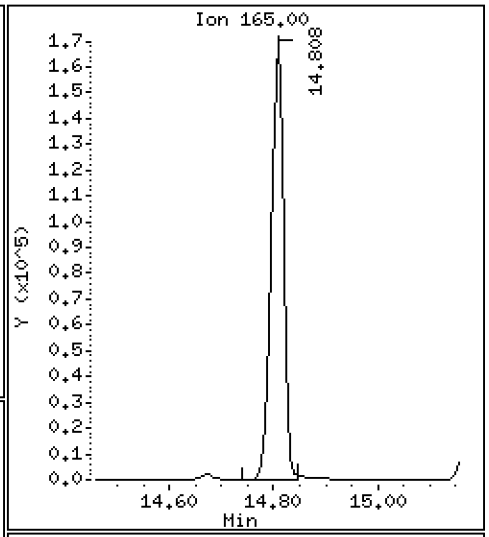
Concentration: 18.59 ug/mL

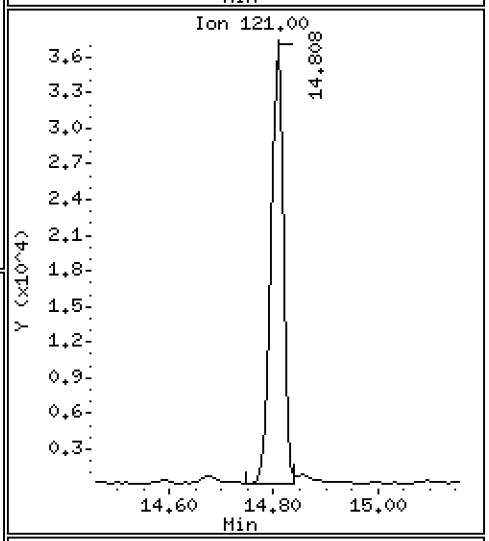


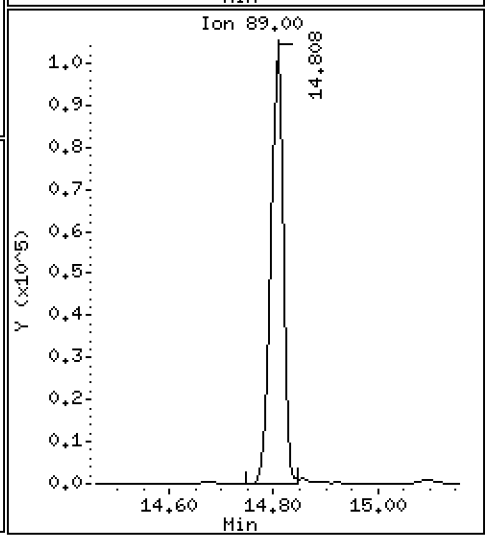












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

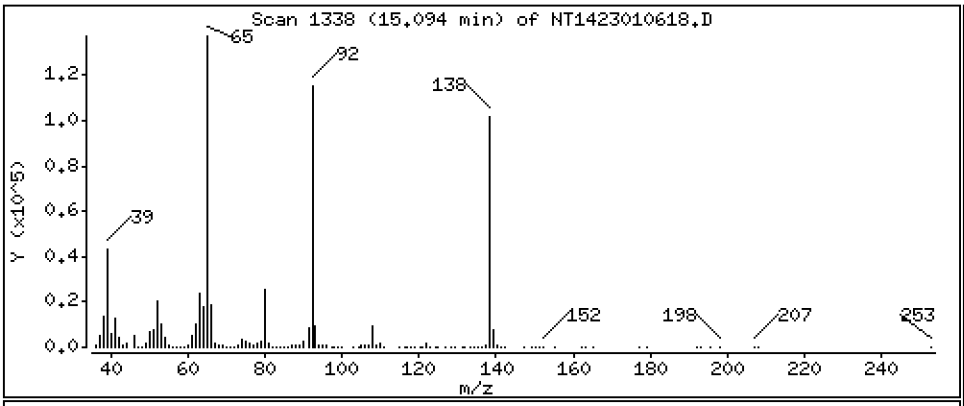
Operator: VTS

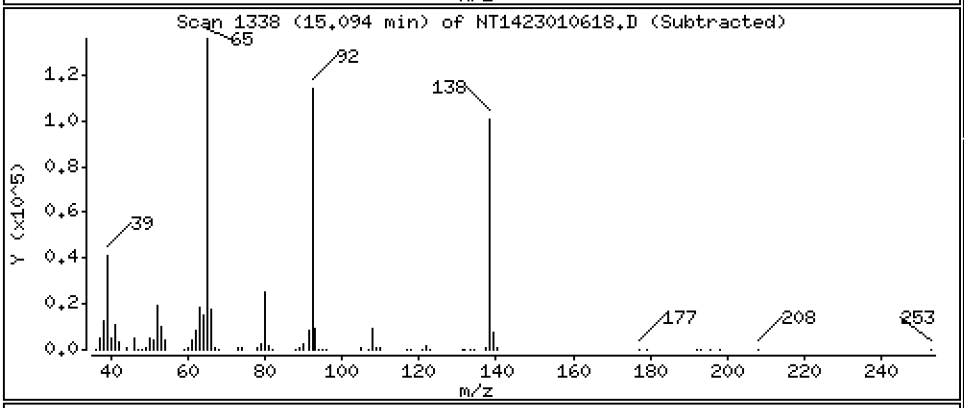
Column phase: ZB-5msi

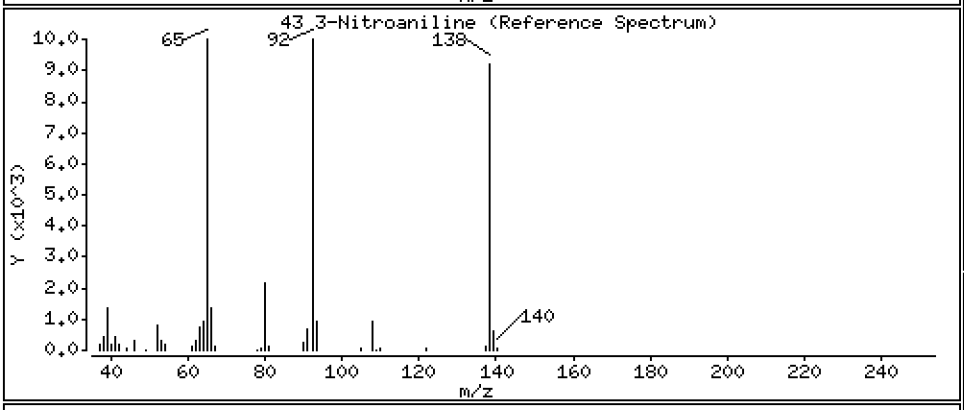
Column diameter: 0.25

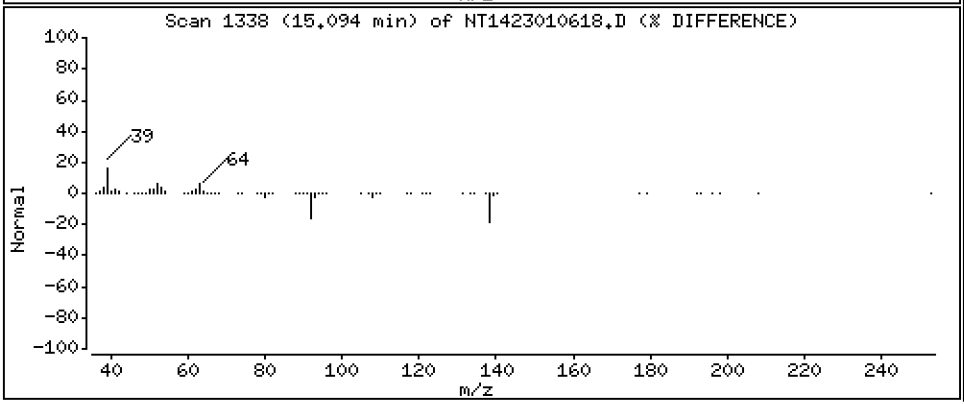
43 3-Nitroaniline

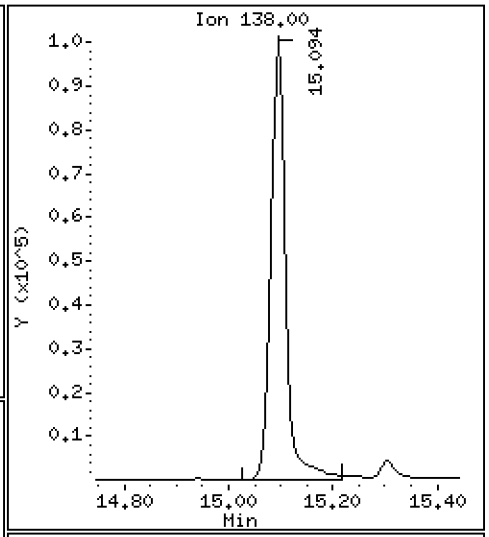
Concentration: 10.99 ug/mL

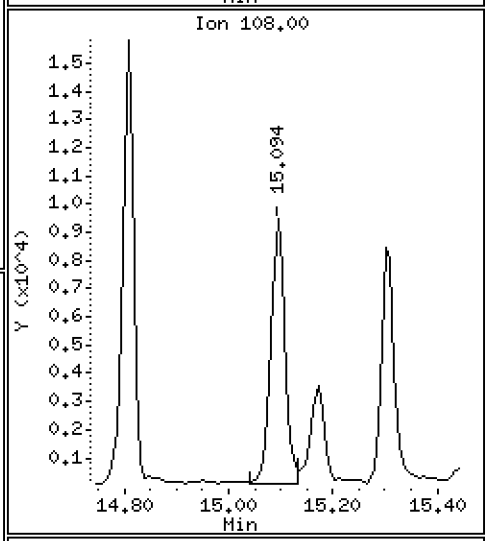


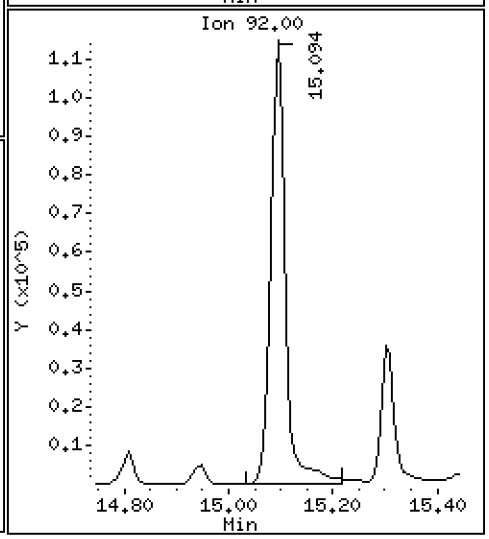












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

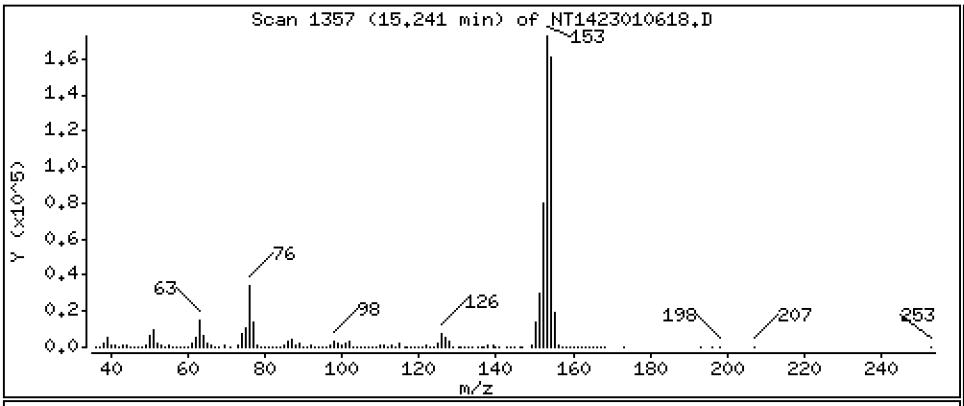
Operator: VTS

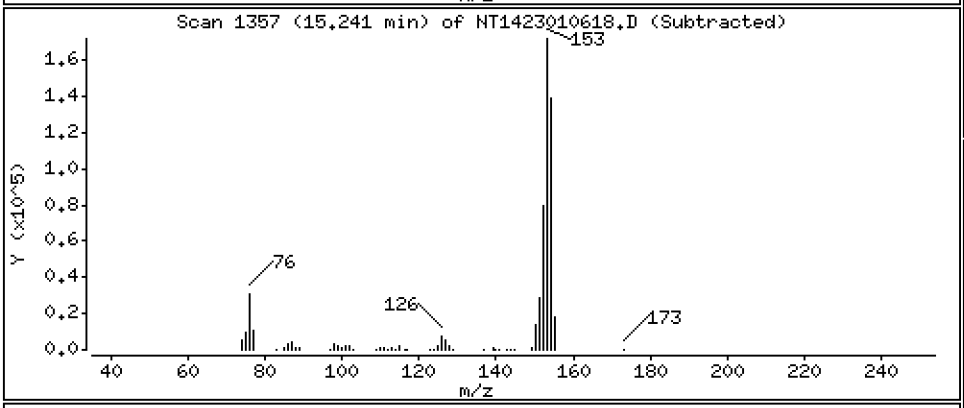
Column phase: ZB-5msi

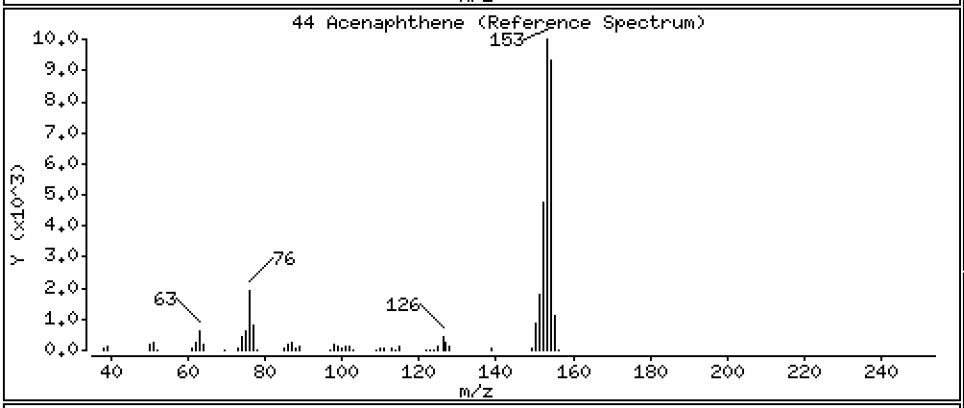
Column diameter: 0.25

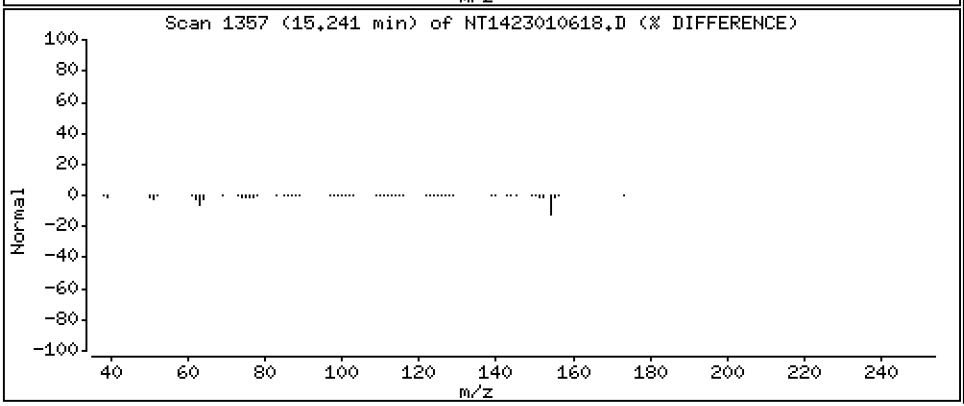
44 Acenaphthene

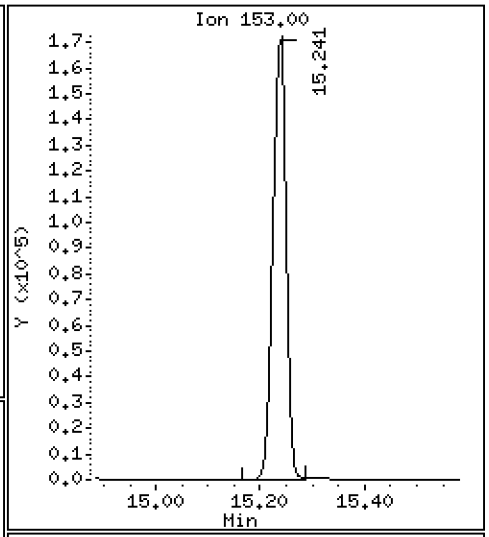
Concentration: 4.817 ug/mL

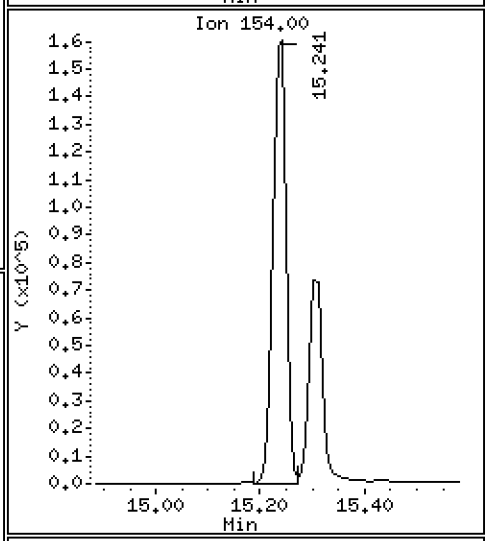


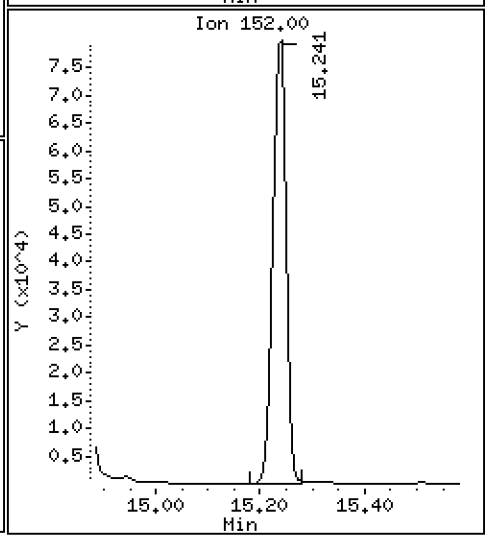












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

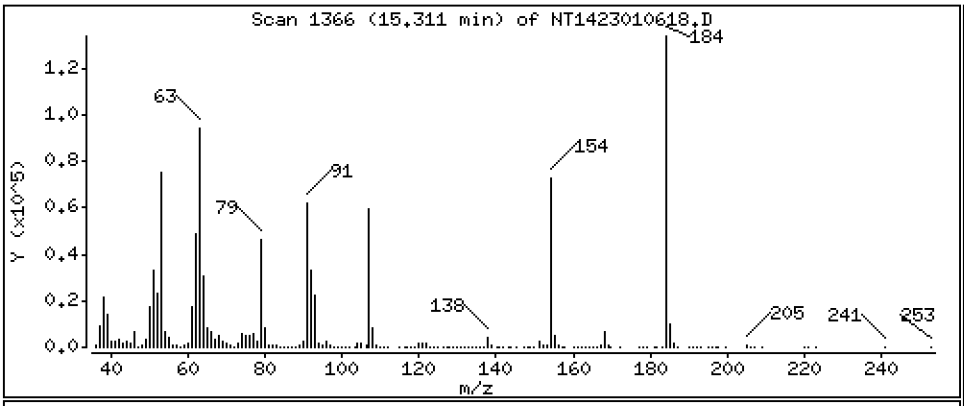
Operator: VTS

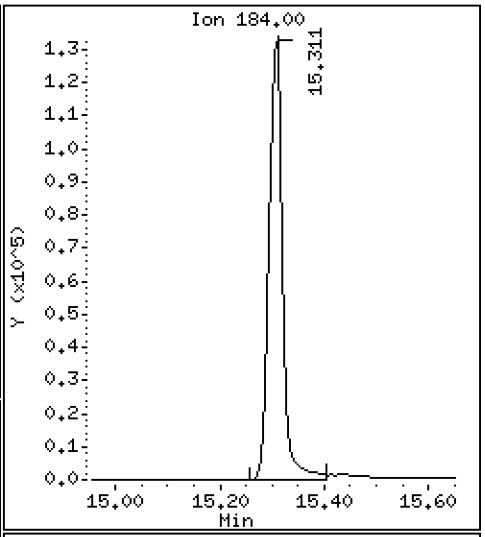
Column phase: ZB-5msi

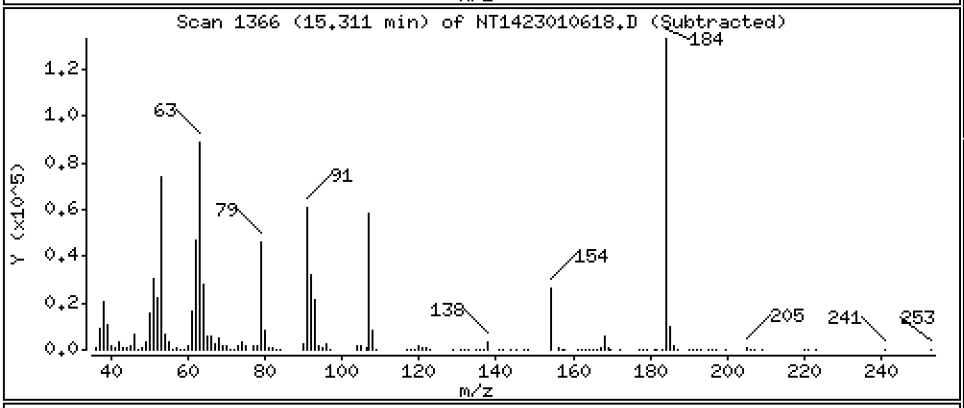
Column diameter: 0.25

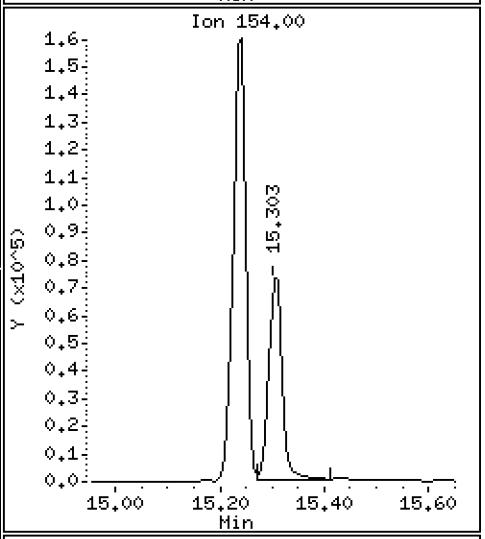
45 2,4-Dinitrophenol

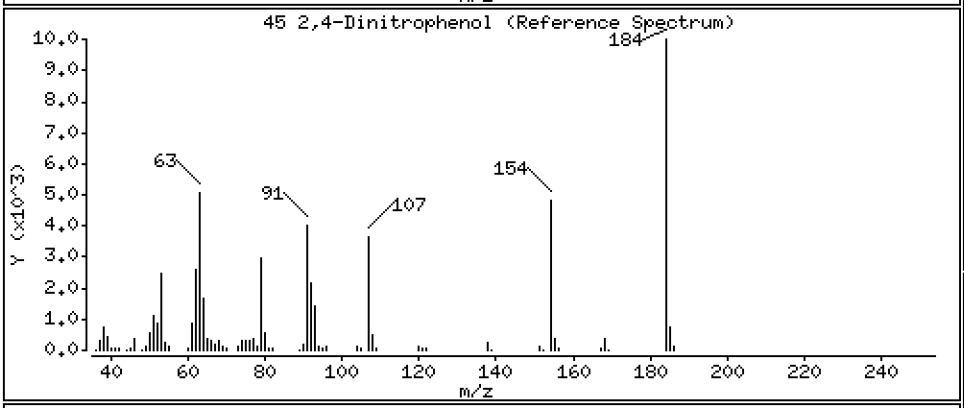
Concentration: 18.35 ug/mL

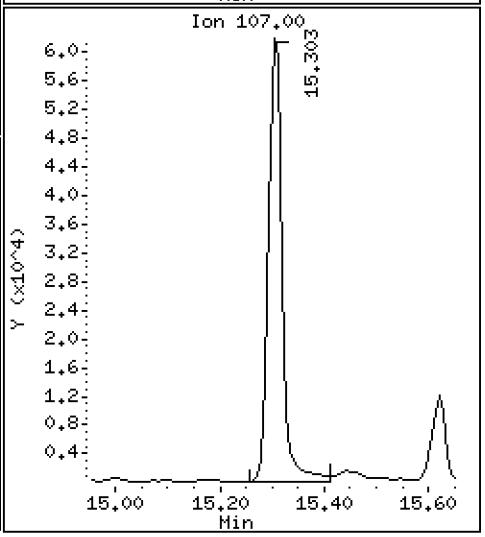


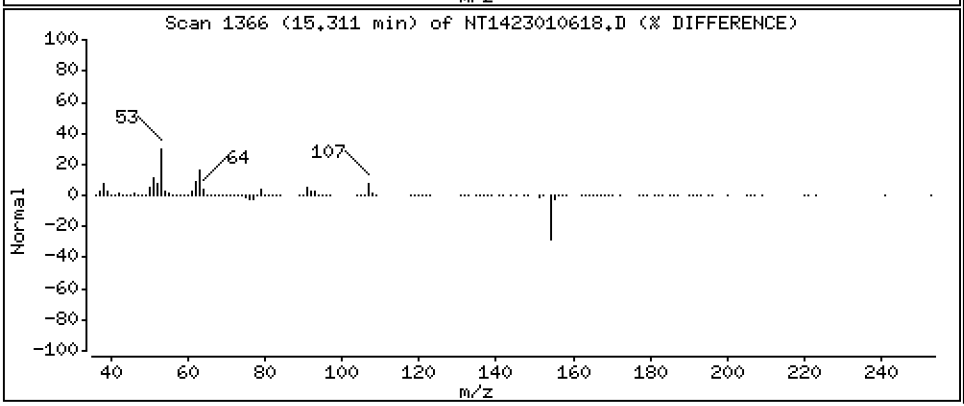












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

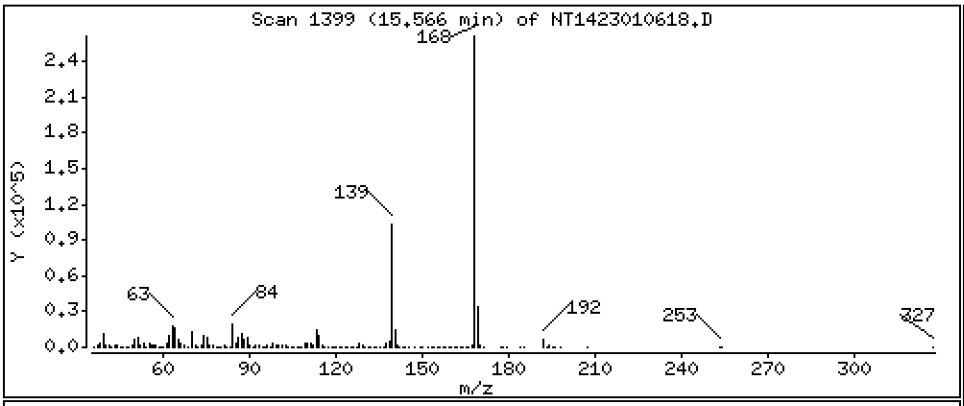
Operator: VTS

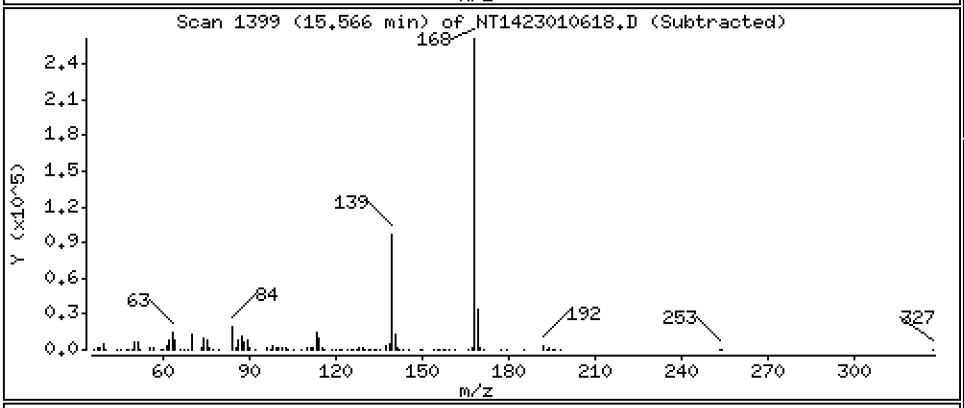
Column phase: ZB-5msi

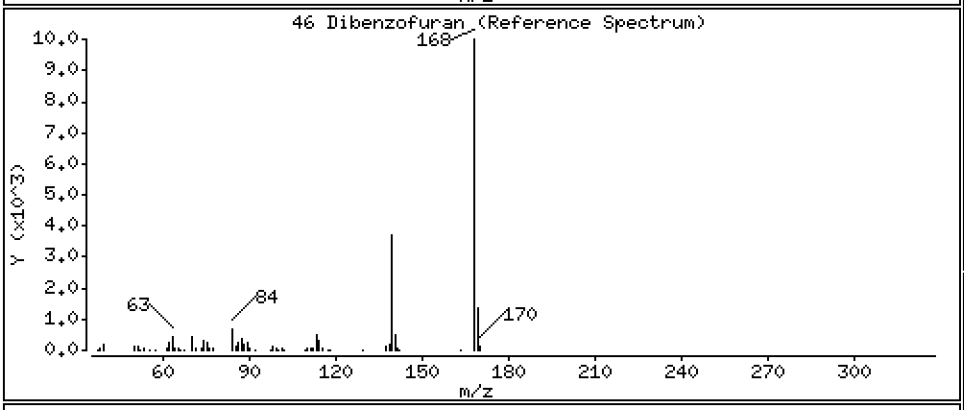
Column diameter: 0.25

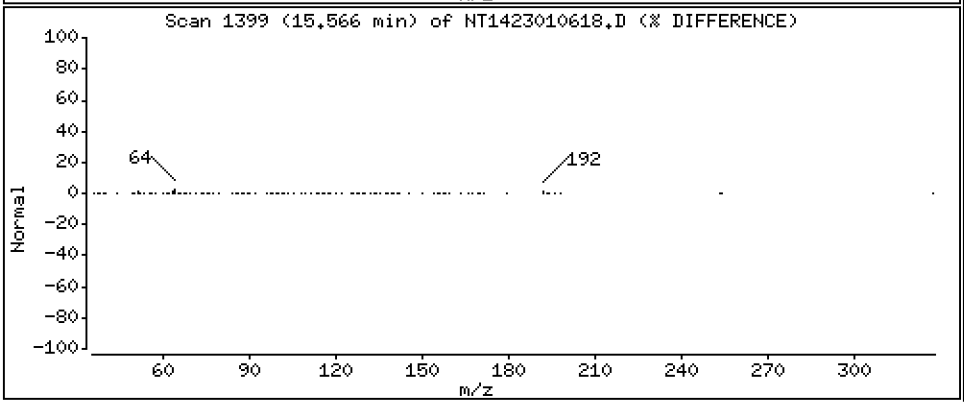
46 Dibenzofuran

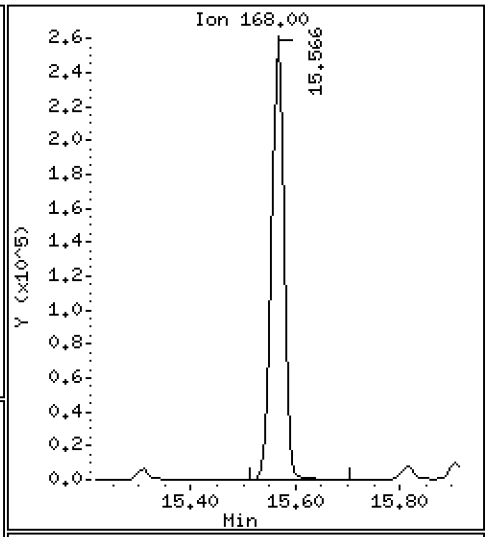
Concentration: 4.486 ug/mL

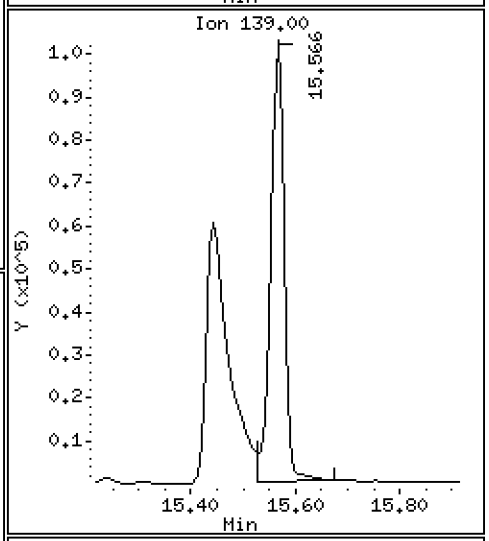


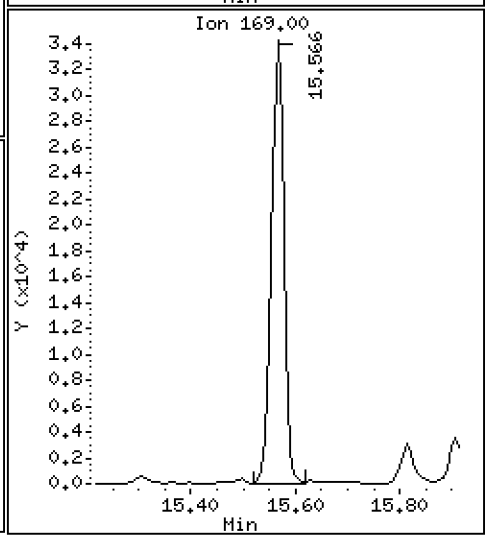












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

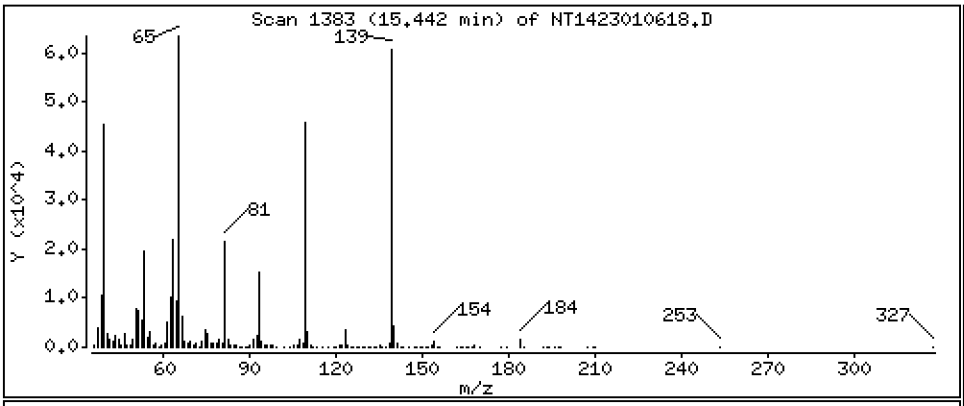
Operator: VTS

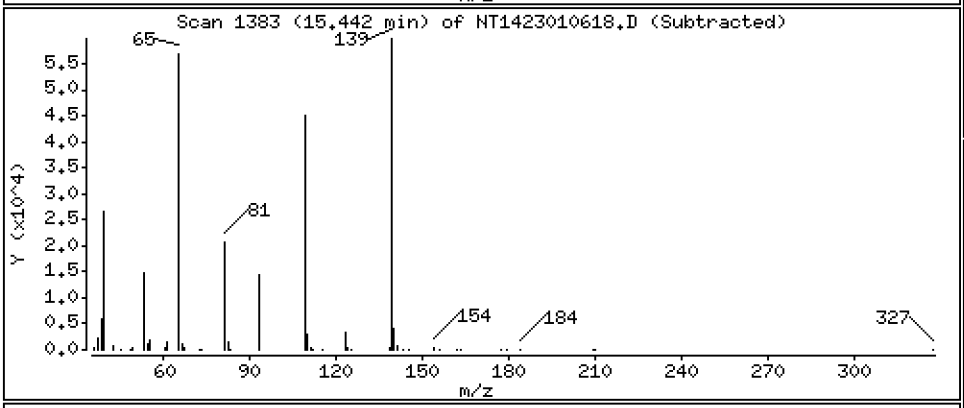
Column phase: ZB-5msi

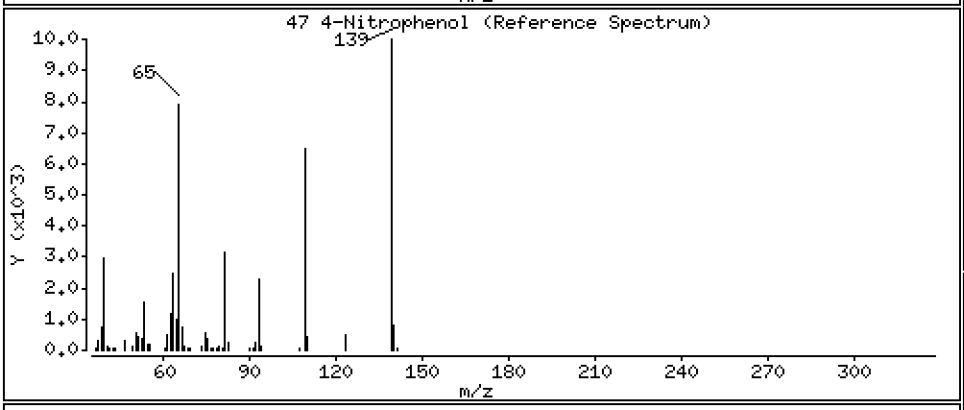
Column diameter: 0.25

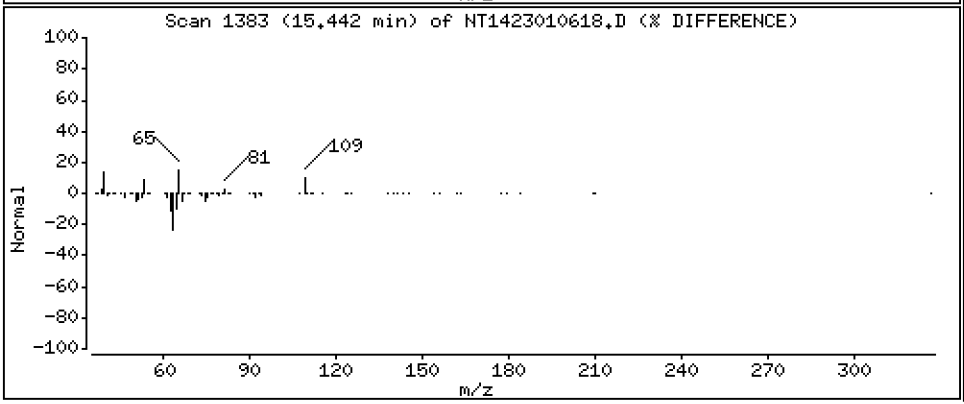
47 4-Nitrophenol

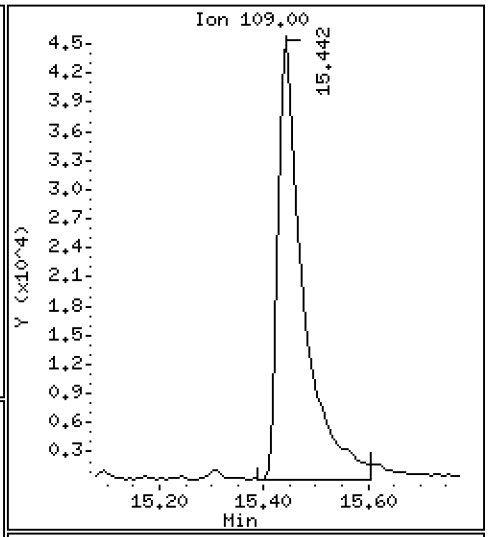
Concentration: 17.65 ug/mL

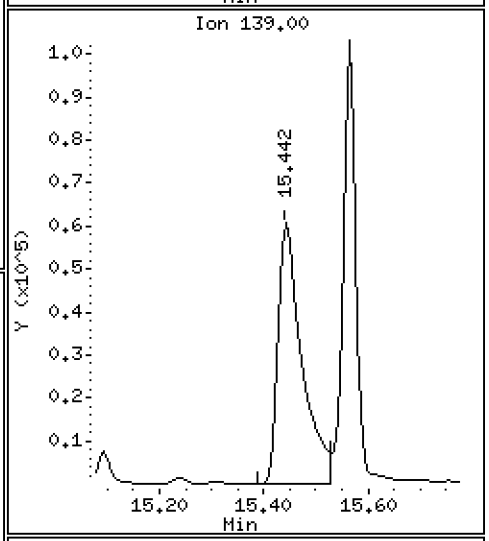


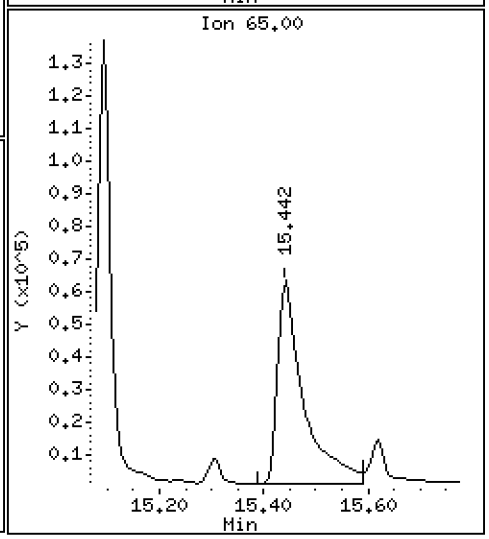












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

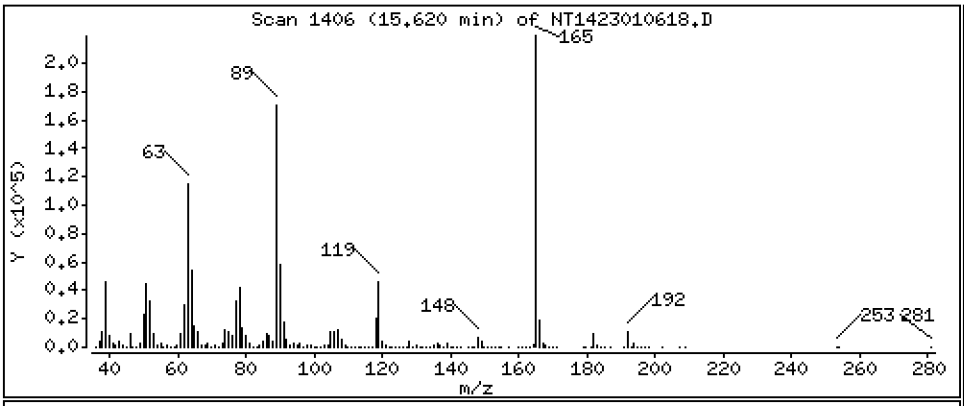
Operator: VTS

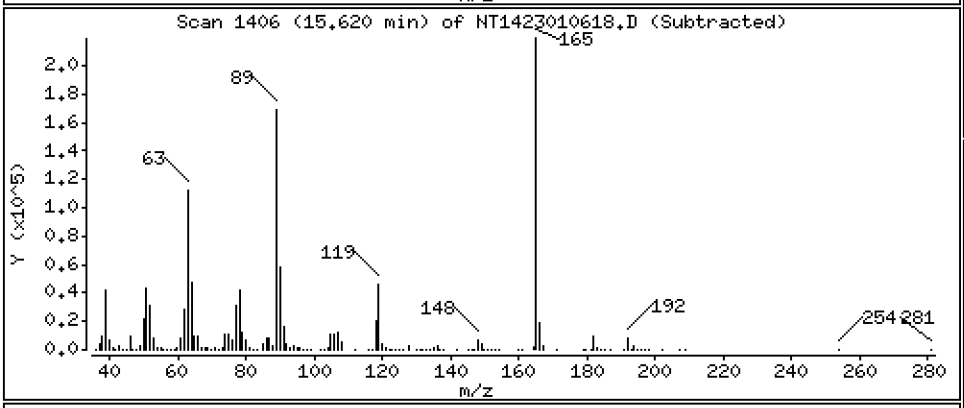
Column phase: ZB-5msi

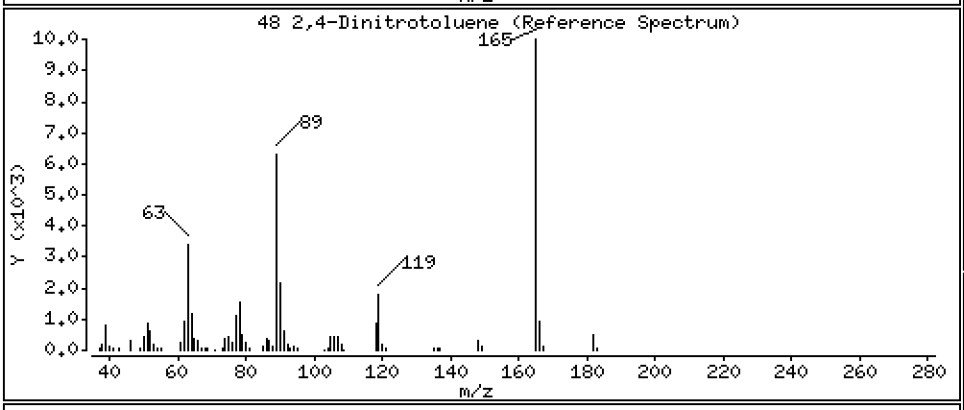
Column diameter: 0.25

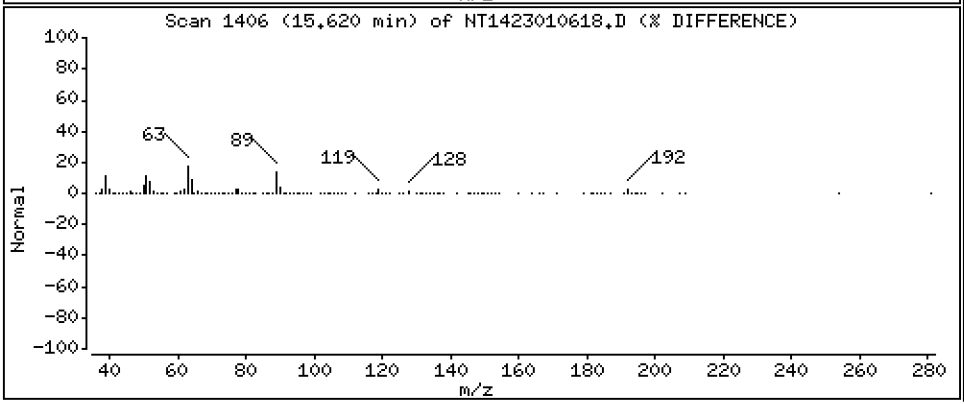
48 2,4-Dinitrotoluene

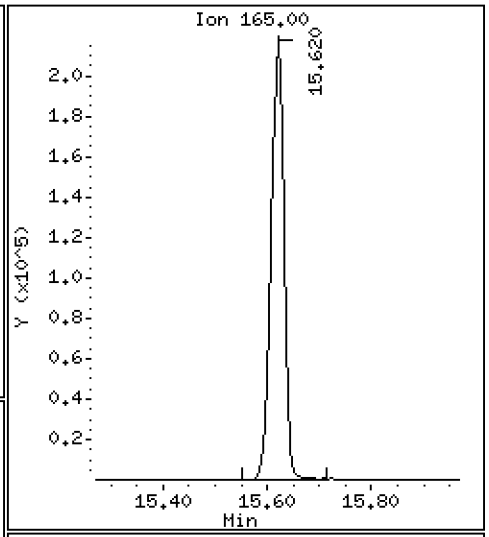
Concentration: 18.19 ug/mL

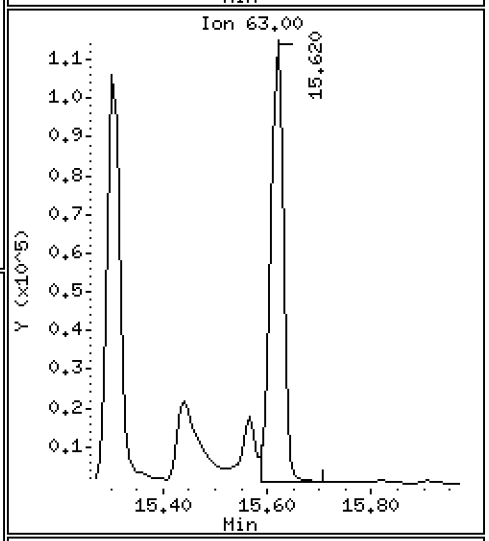


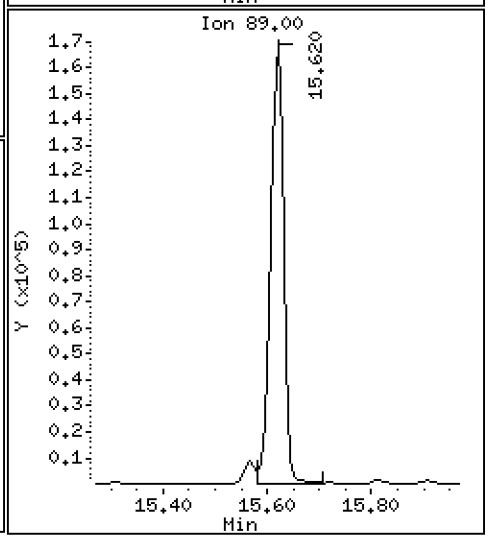












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

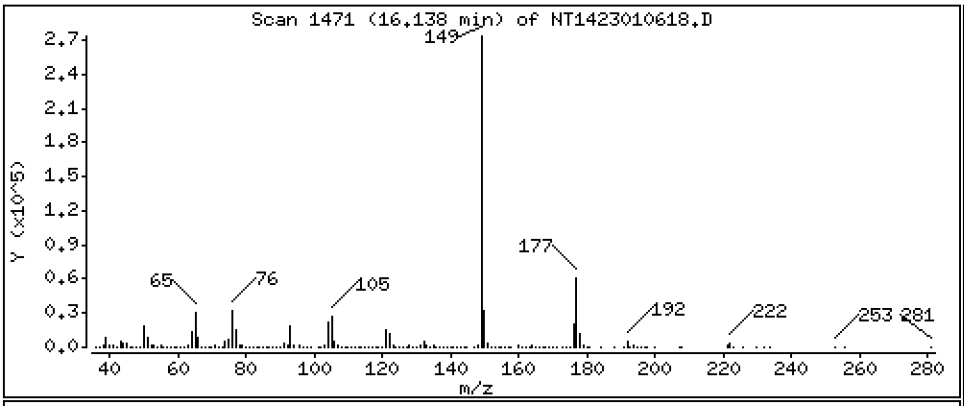
Operator: VTS

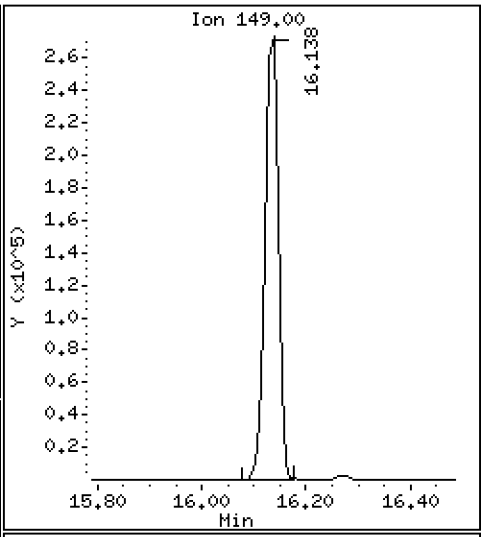
Column phase: ZB-5msi

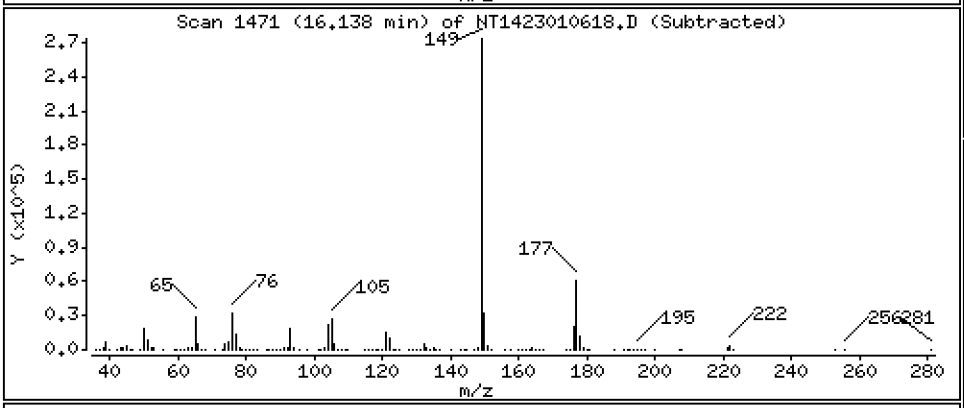
Column diameter: 0.25

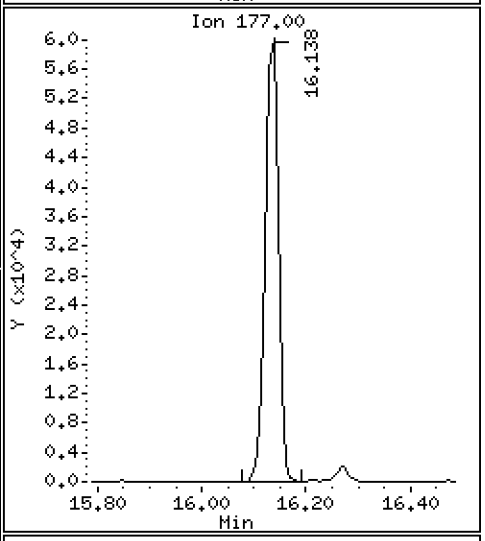
50 Diethylphthalate

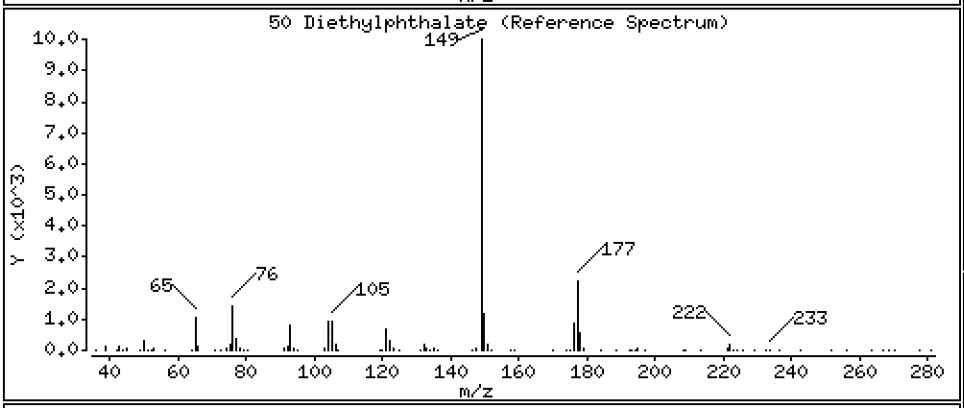
Concentration: 5.424 ug/mL

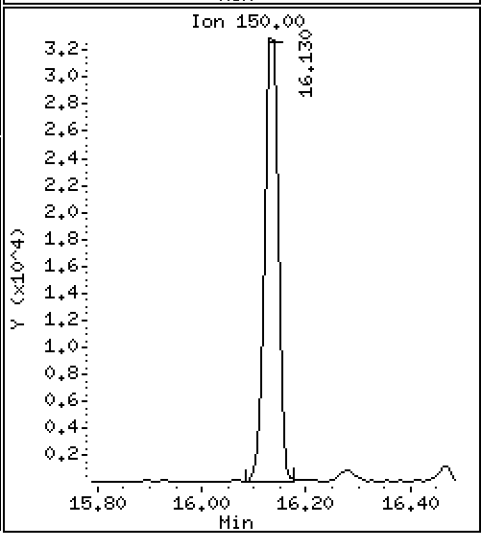


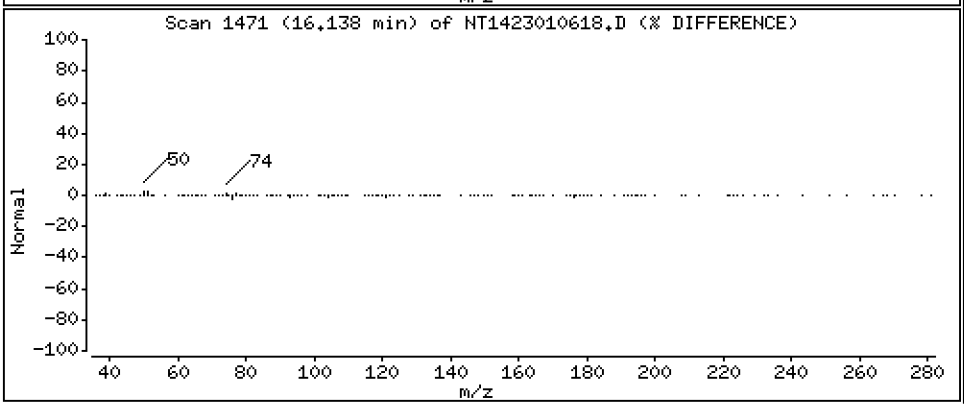












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

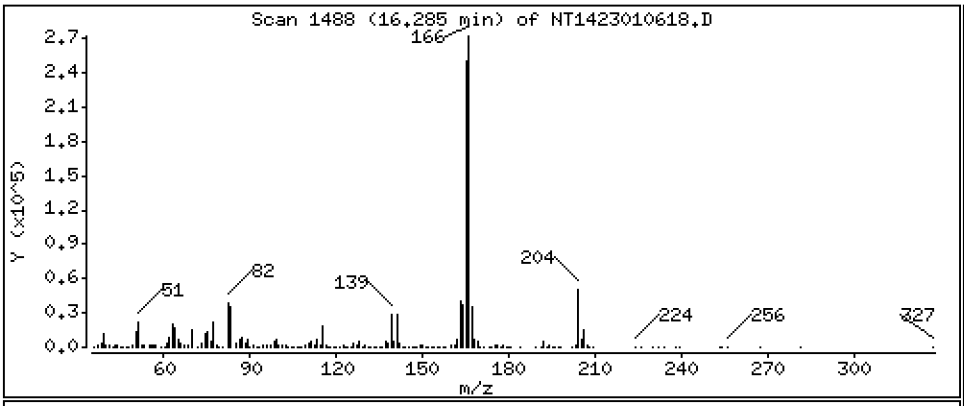
Operator: VTS

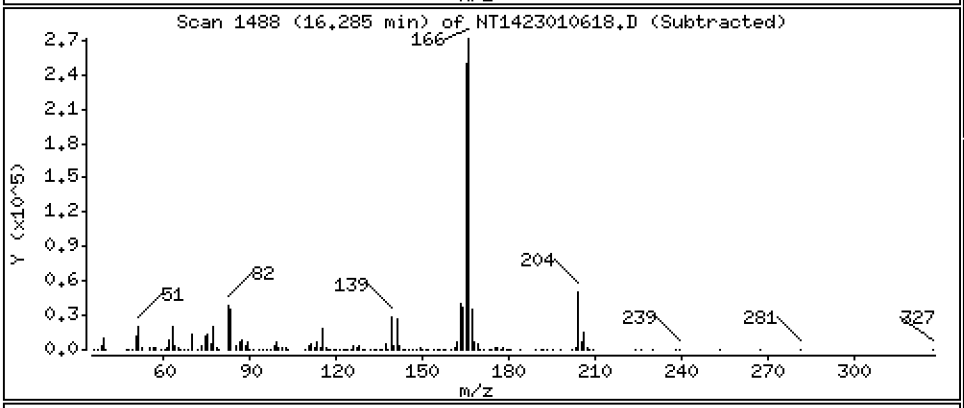
Column phase: ZB-5msi

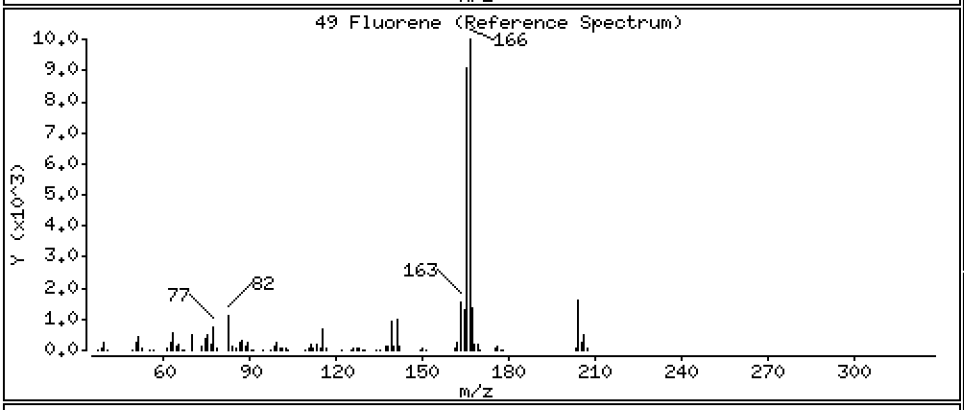
Column diameter: 0.25

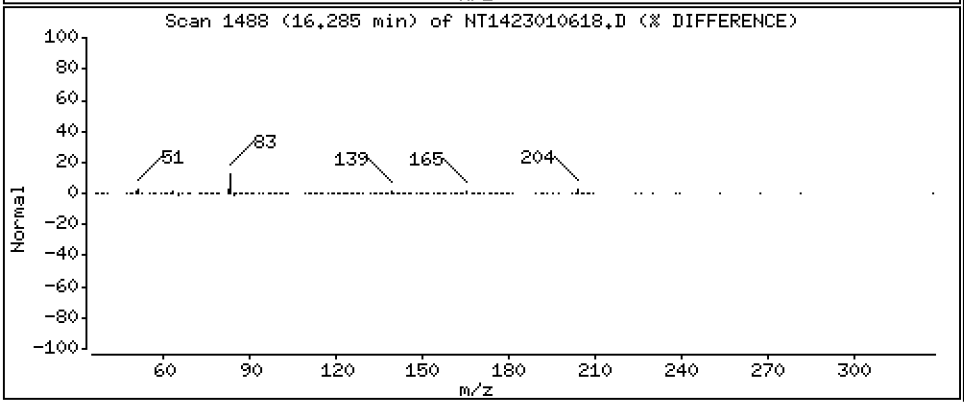
49 Fluorene

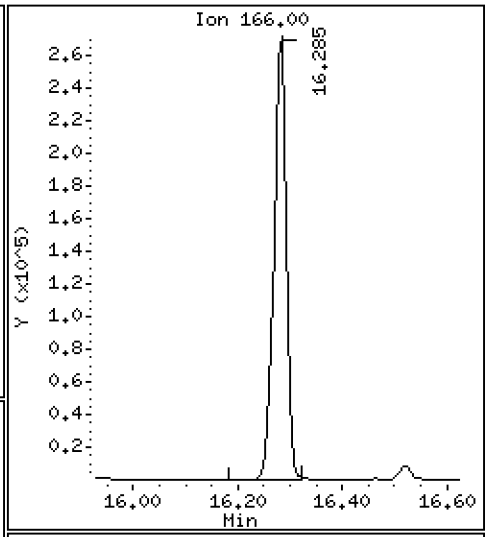
Concentration: 5.224 ug/mL

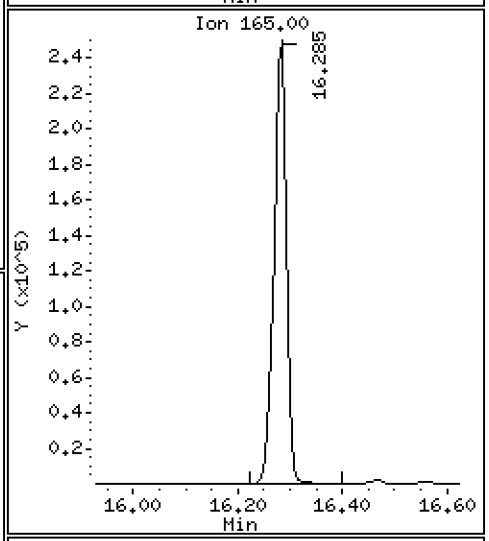


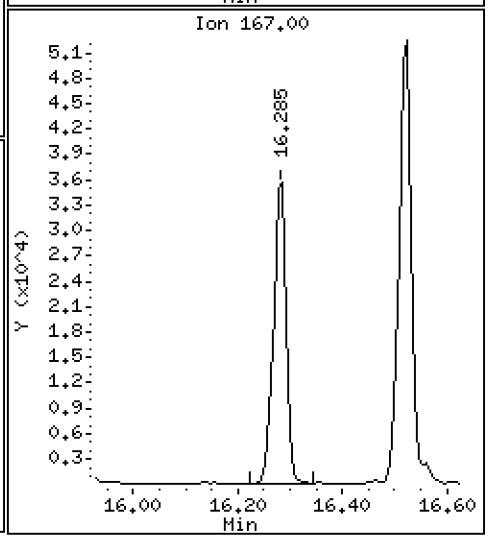












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

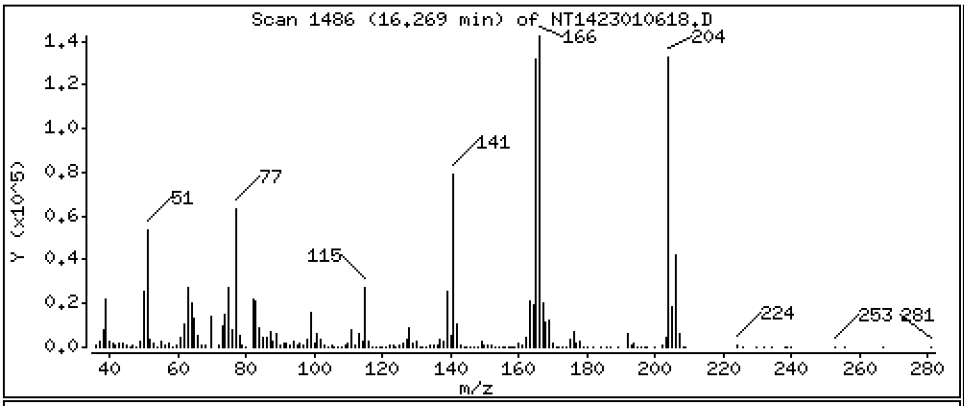
Operator: VTS

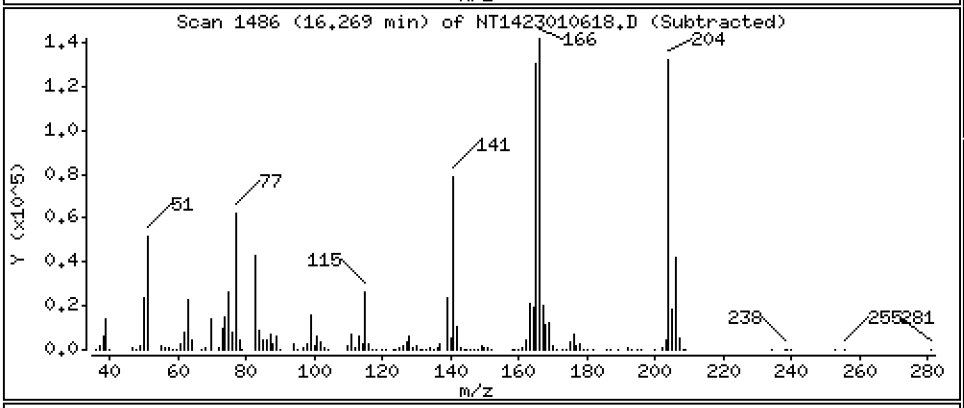
Column phase: ZB-5msi

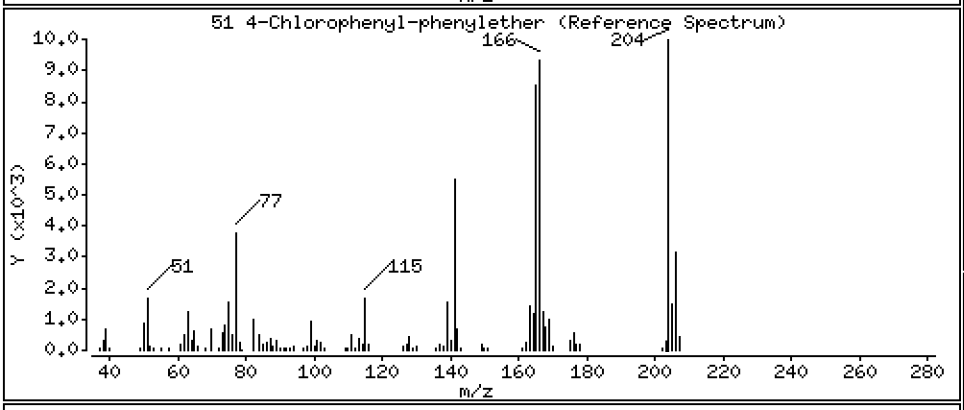
Column diameter: 0.25

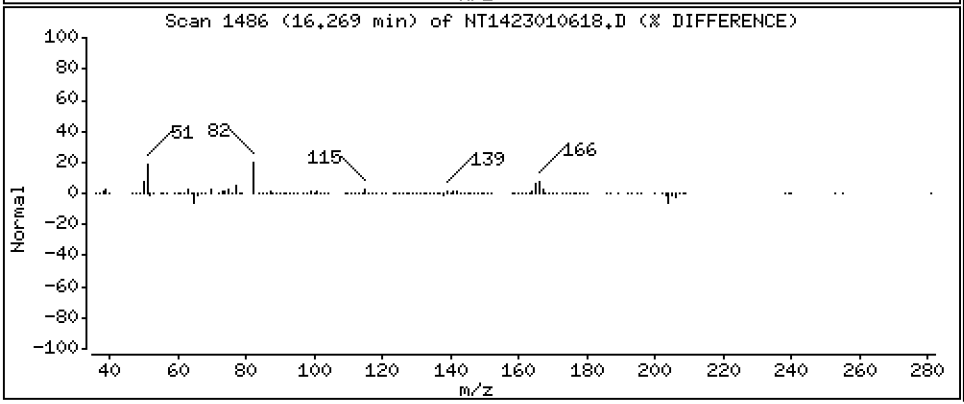
51 4-Chlorophenyl-phenylether

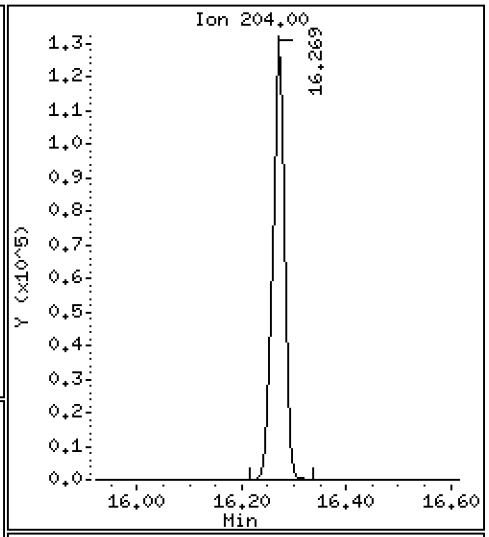
Concentration: 4.313 ug/mL

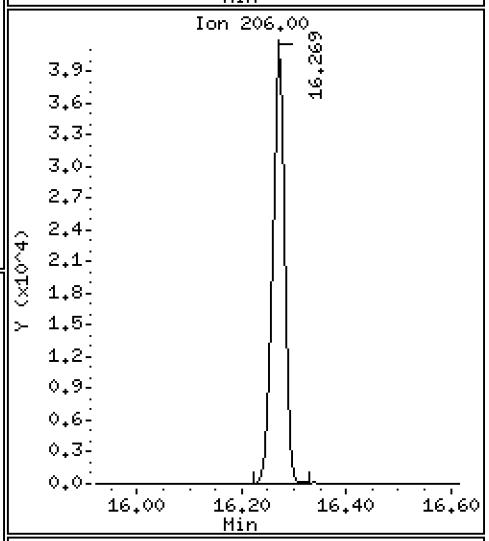


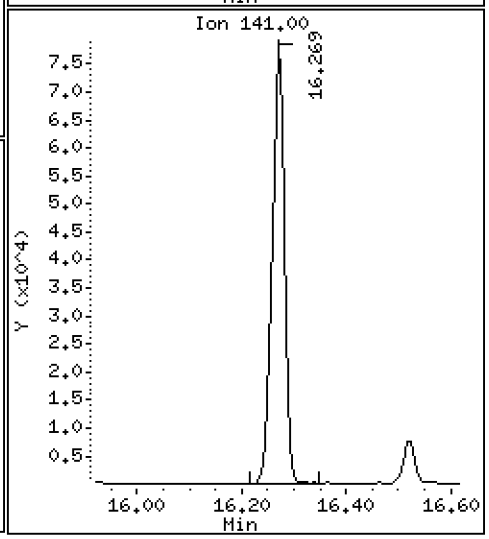












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

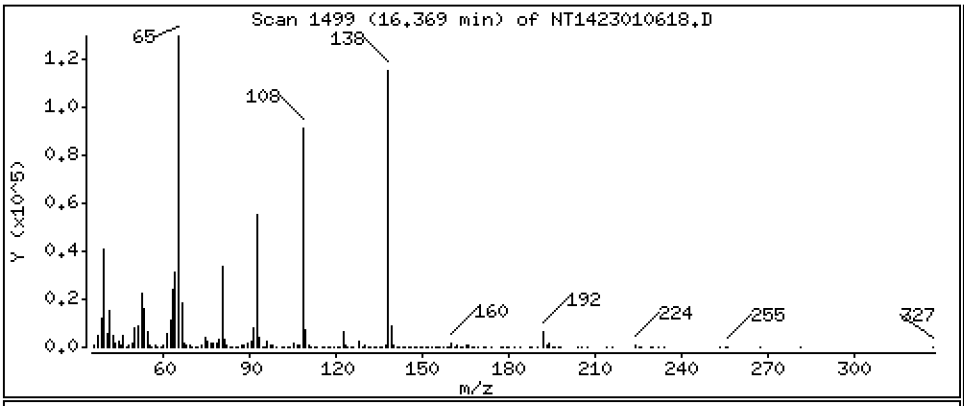
Operator: VTS

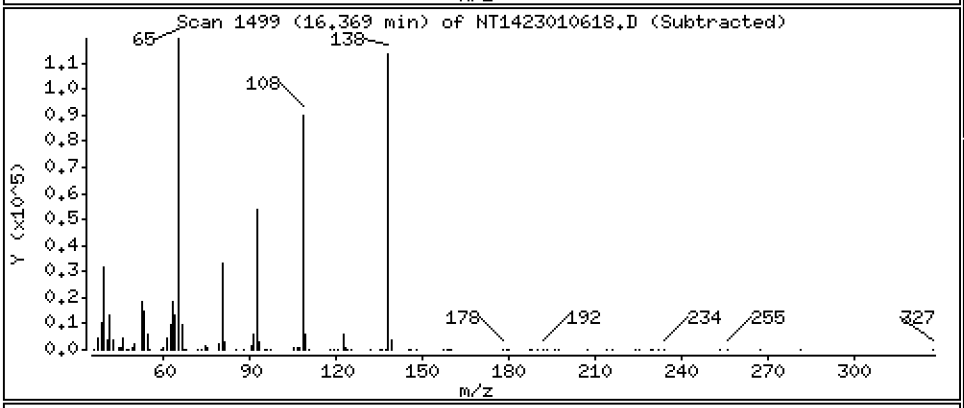
Column phase: ZB-5msi

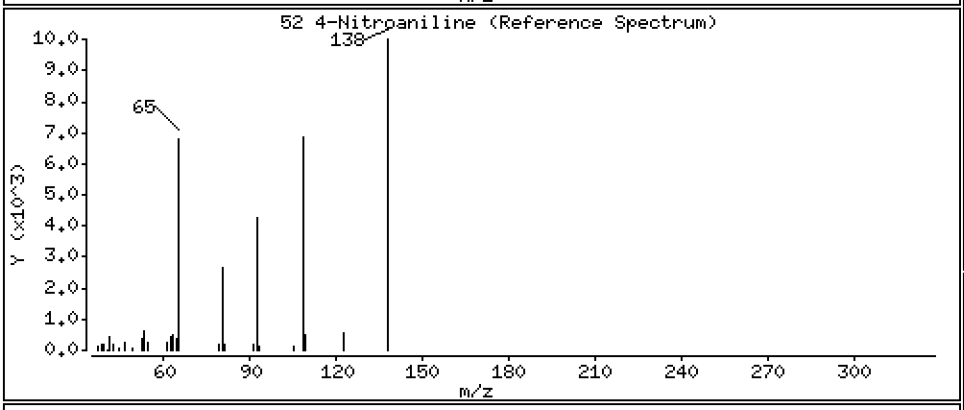
Column diameter: 0.25

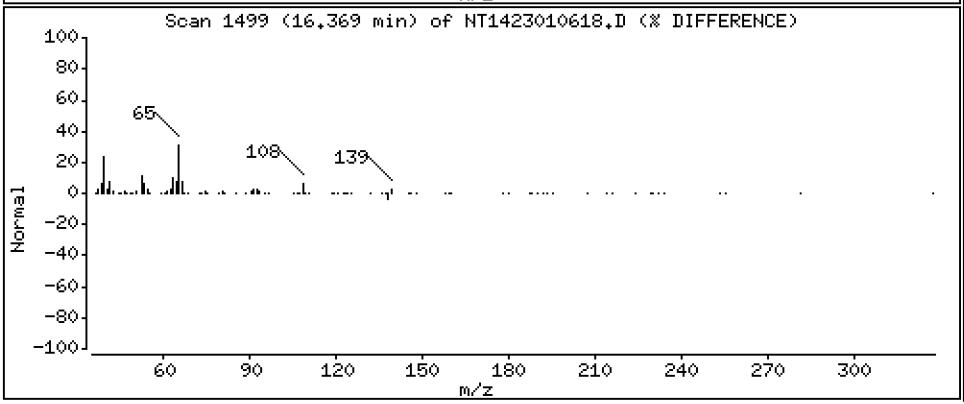
52 4-Nitroaniline

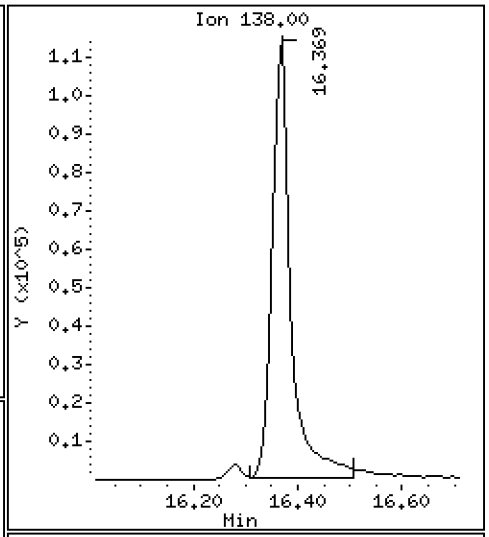
Concentration: 12.99 ug/mL

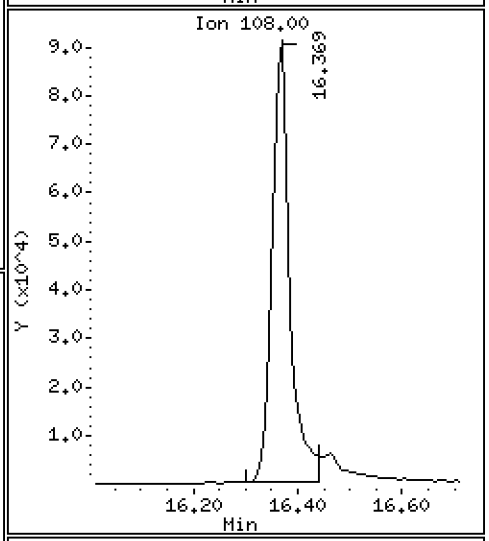


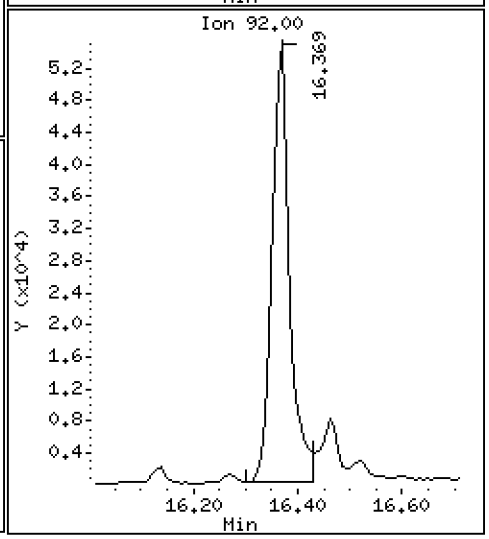












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

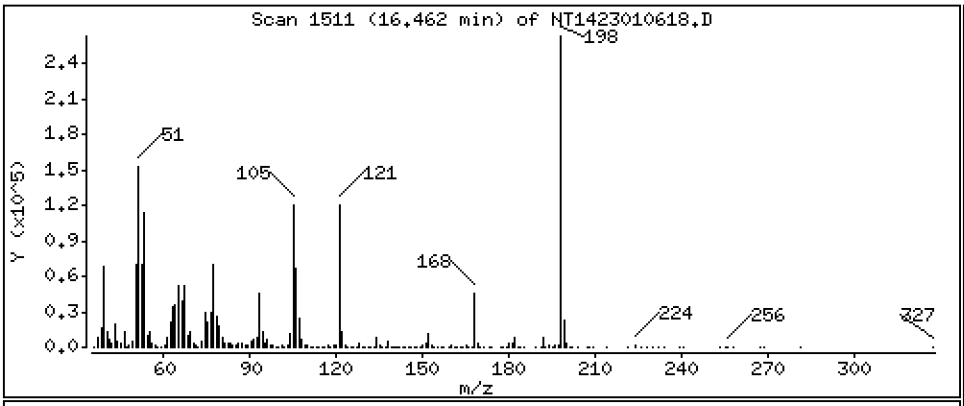
Operator: VTS

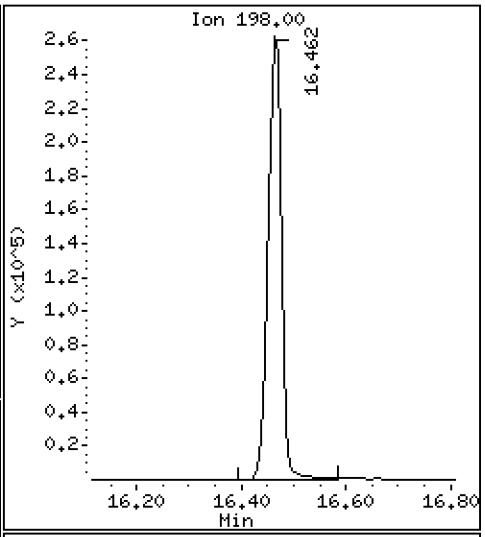
Column phase: ZB-5msi

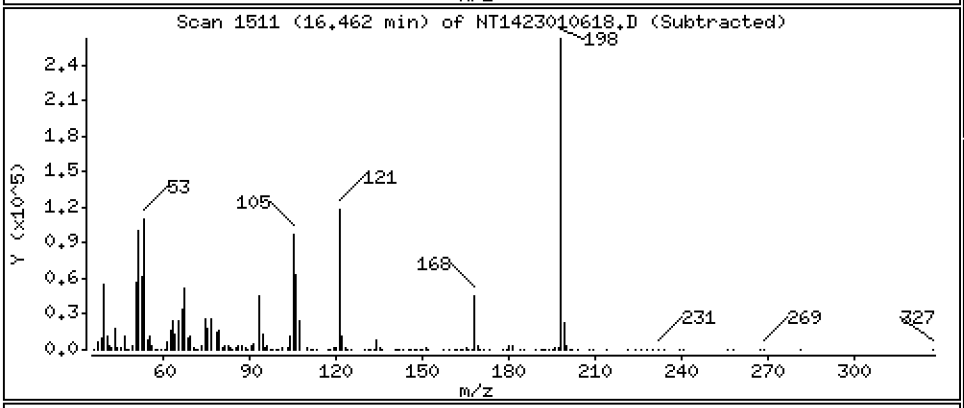
Column diameter: 0.25

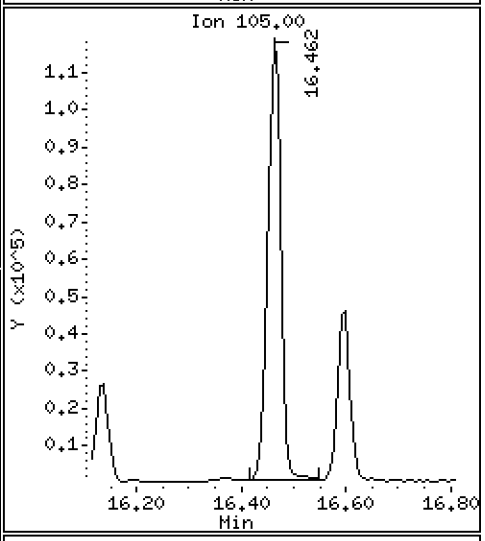
53 4,6-Dinitro-2-methylphenol

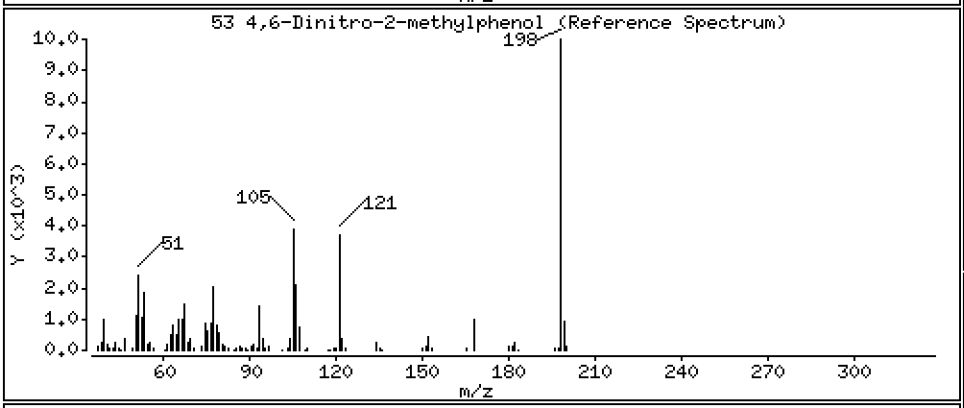
Concentration: 26.86 ug/mL

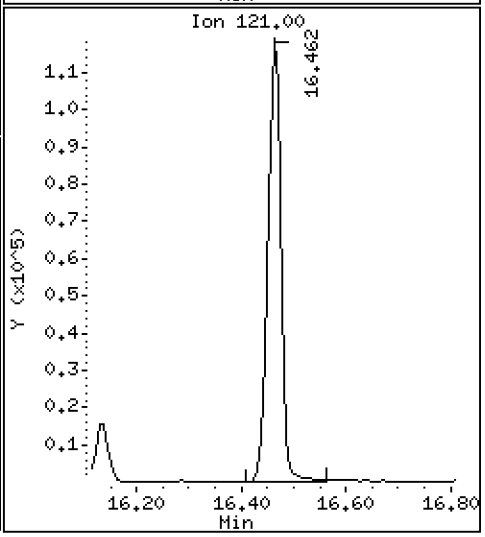


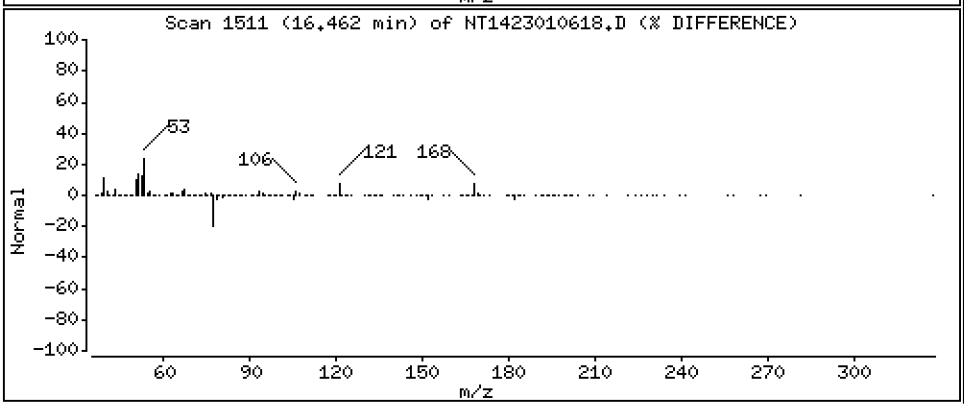












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

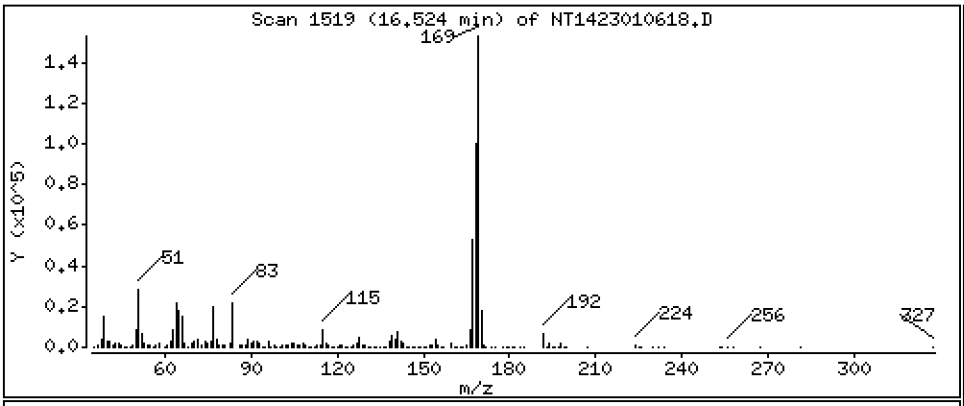
Operator: VTS

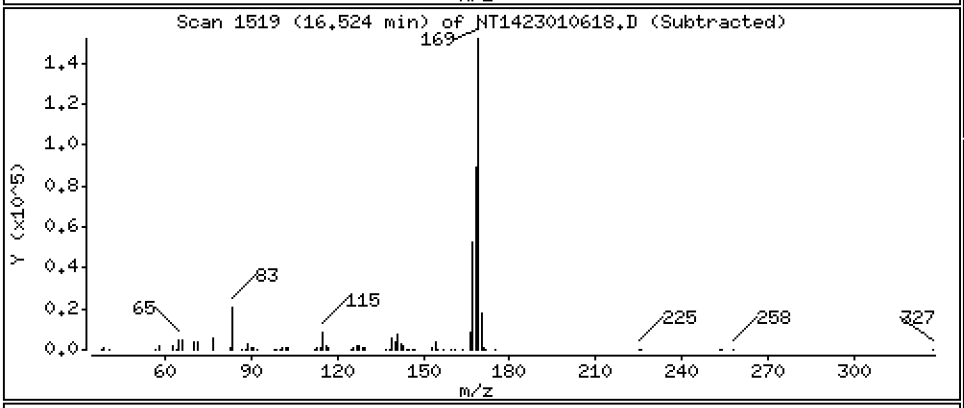
Column phase: ZB-5msi

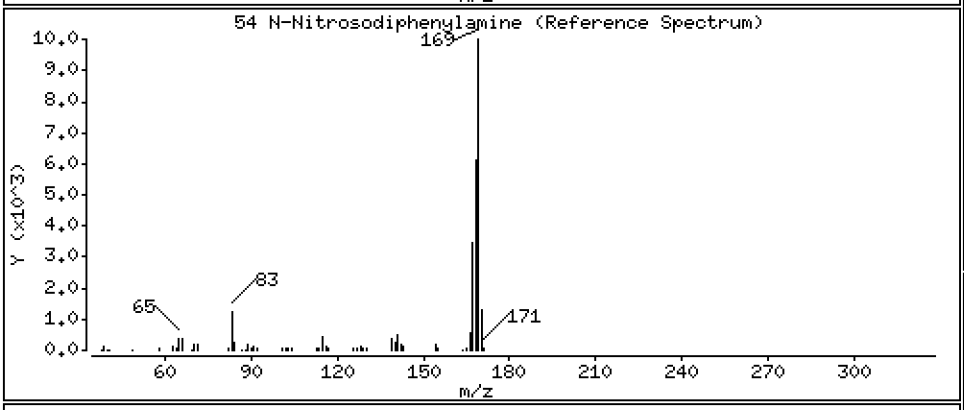
Column diameter: 0.25

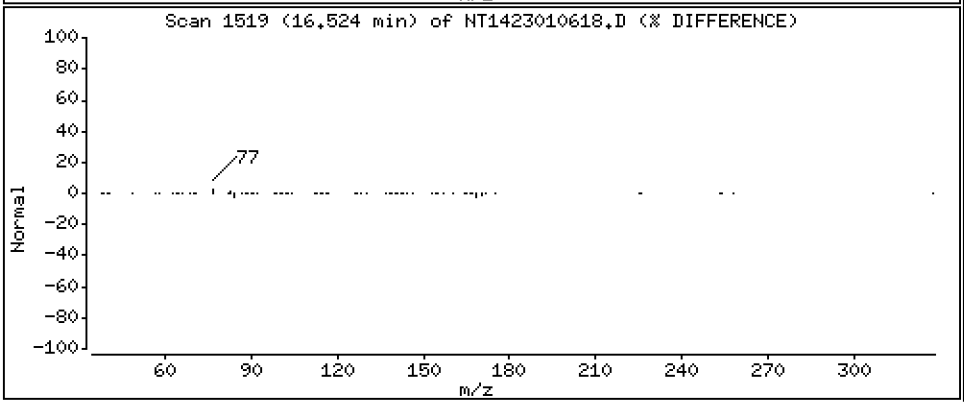
54 N-Nitrosodiphenylamine

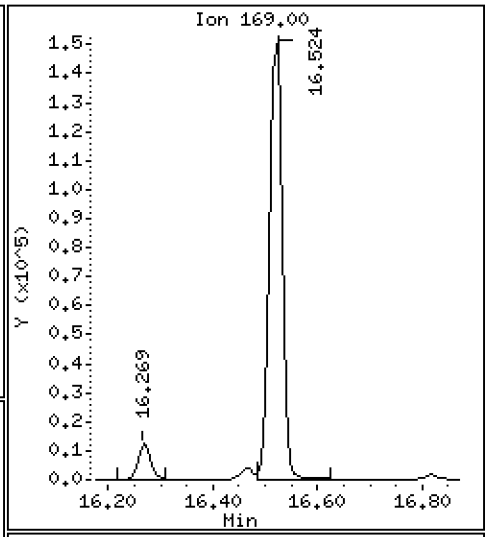
Concentration: 3.804 ug/mL

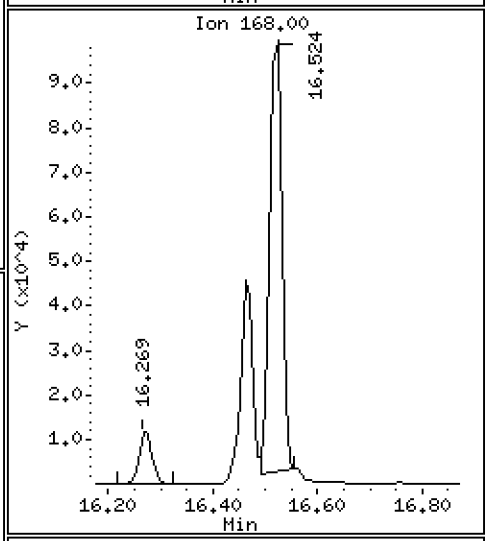


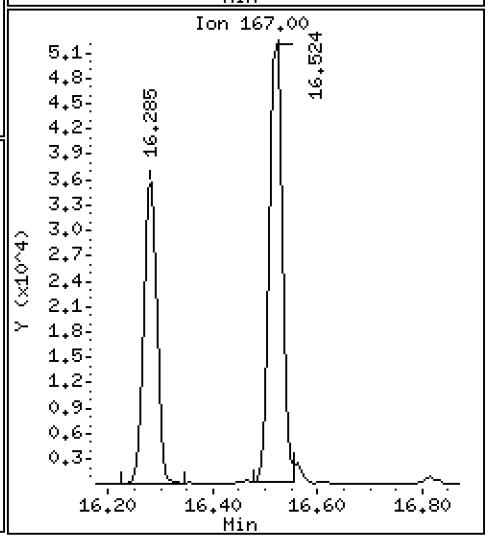












Date : 06-JAN-2023 21:51

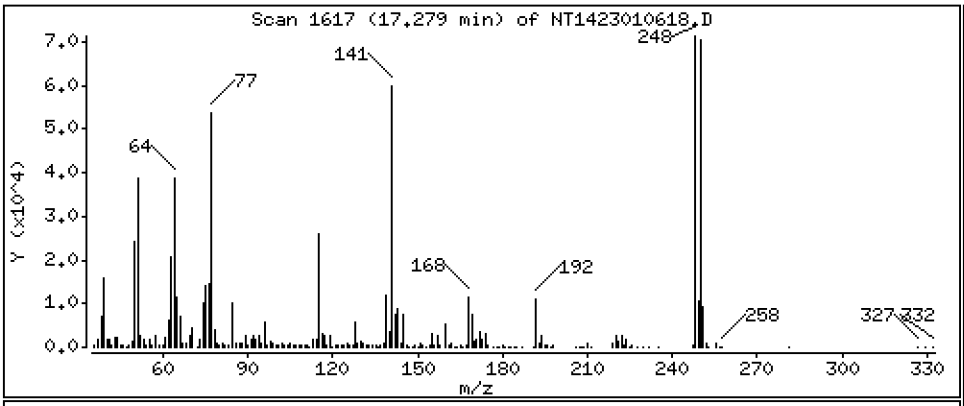
Client ID: Instrument: nt14.i

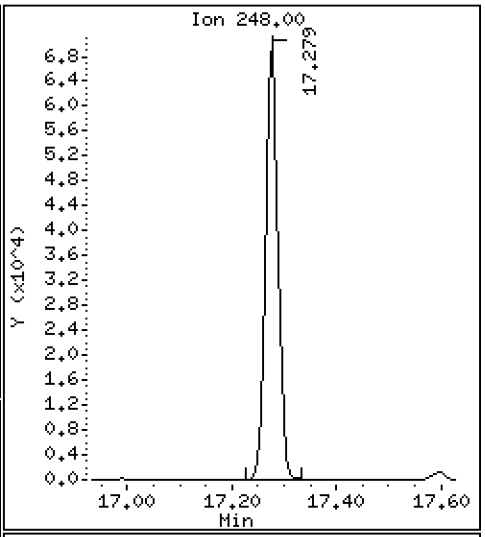
Sample Info: BKL0585-MSD1

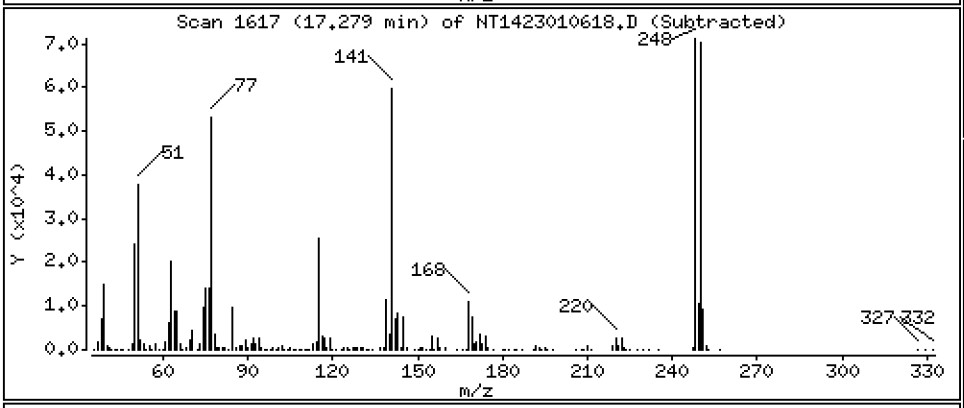
Operator: VTS

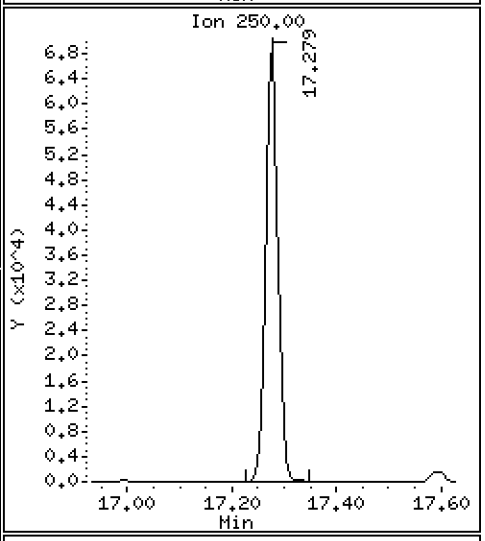
Column phase: ZB-5msi Column diameter: 0.25

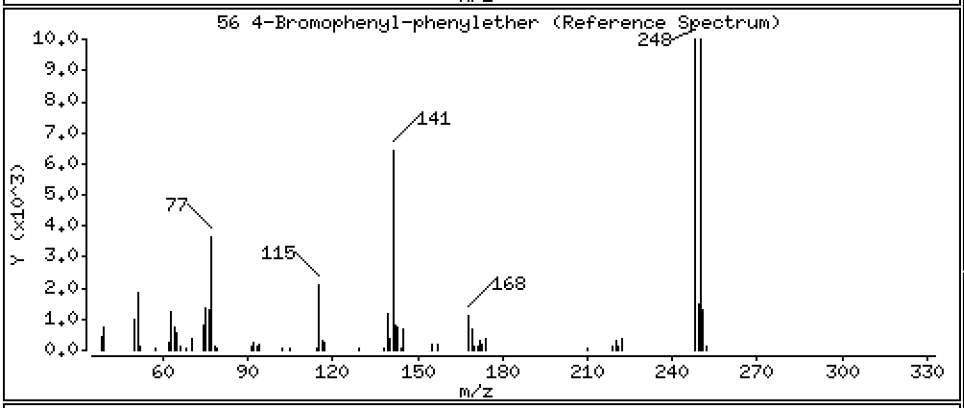
56 4-Bromophenyl-phenylether Concentration: 4.689 ug/mL

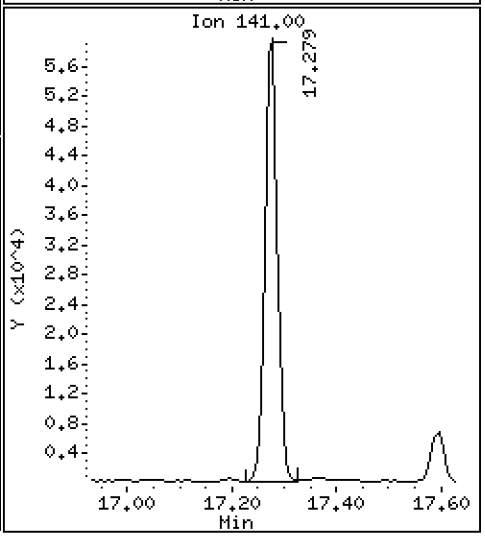


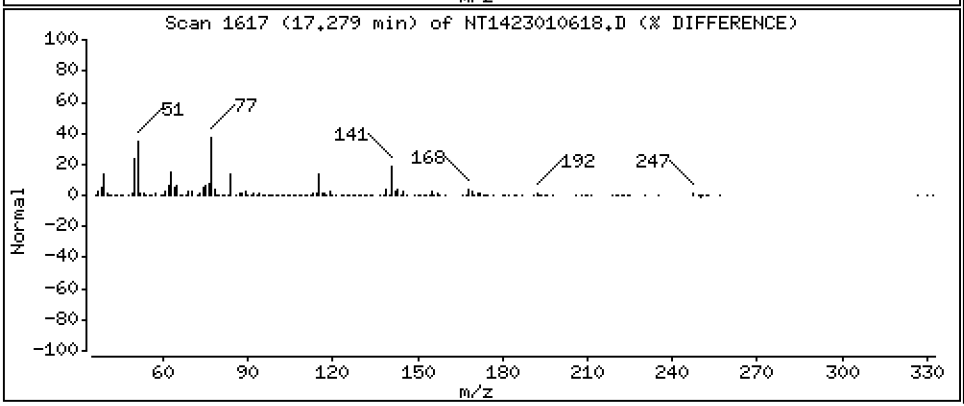












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

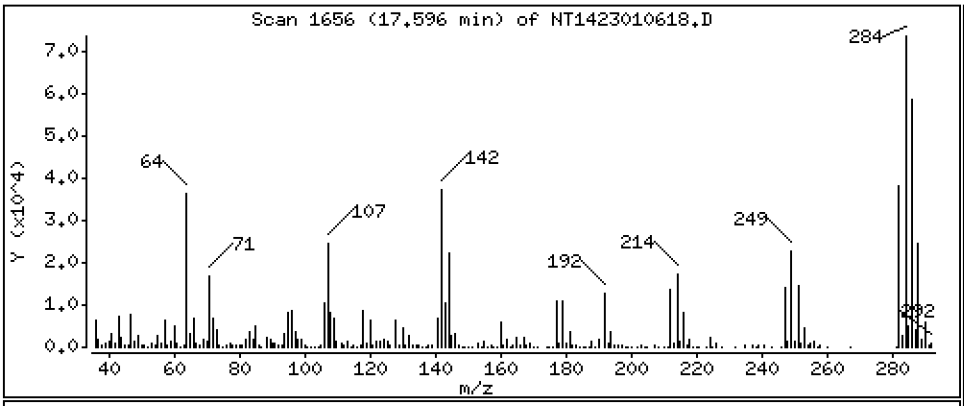
Operator: VTS

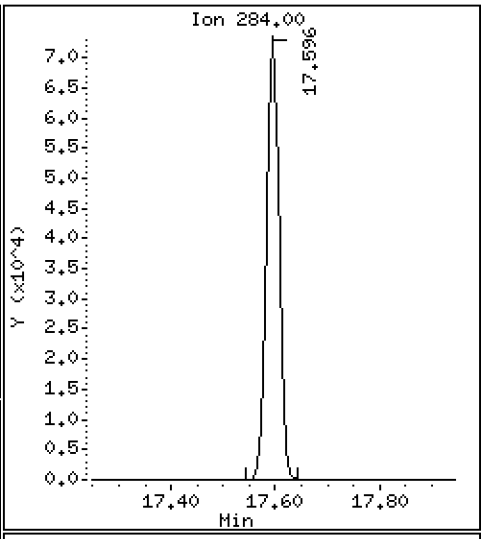
Column phase: ZB-5msi

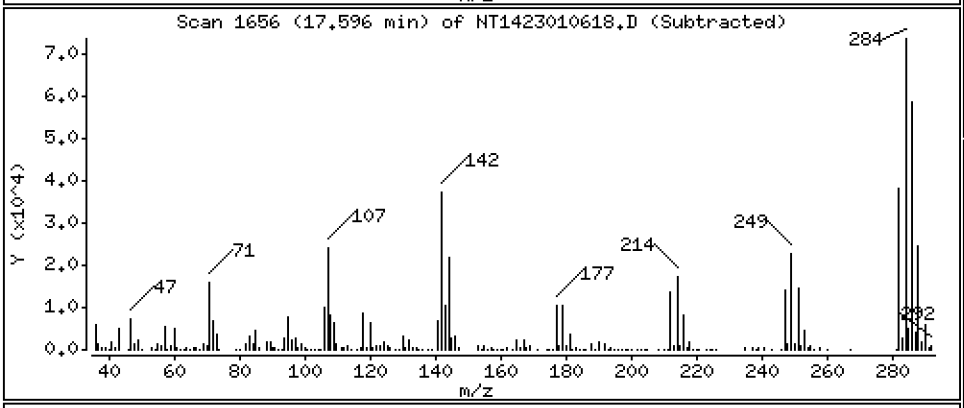
Column diameter: 0.25

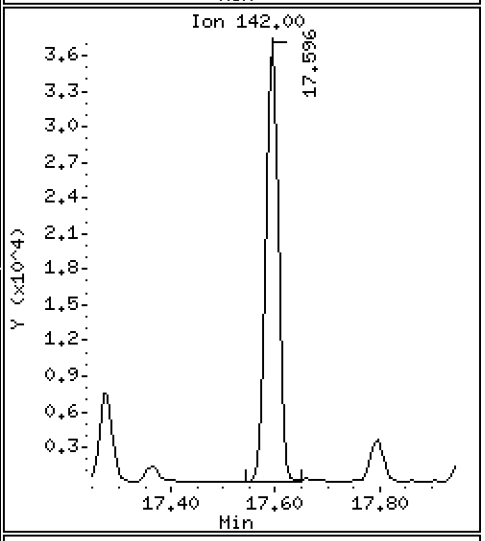
57 Hexachlorobenzene

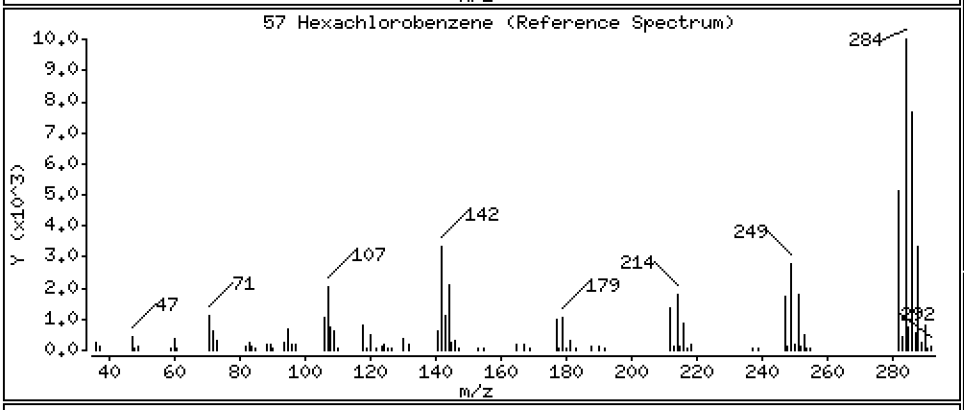
Concentration: 4.372 ug/mL

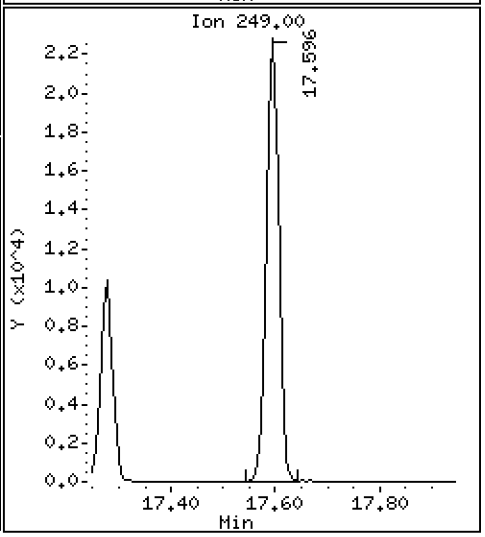


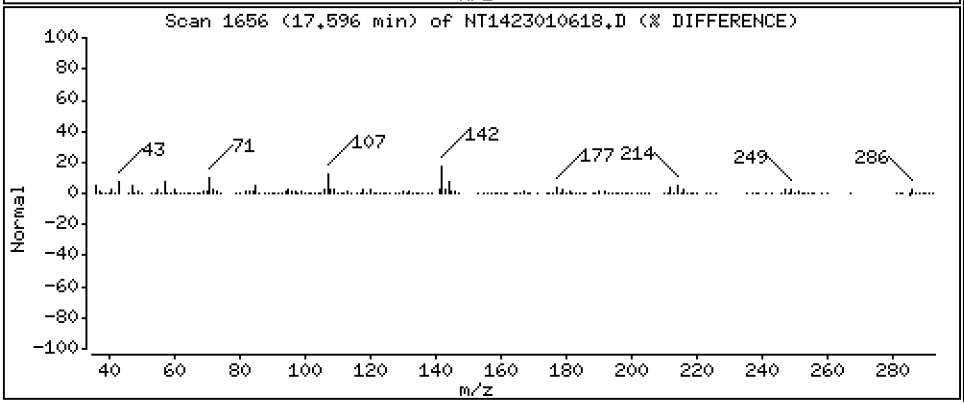












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

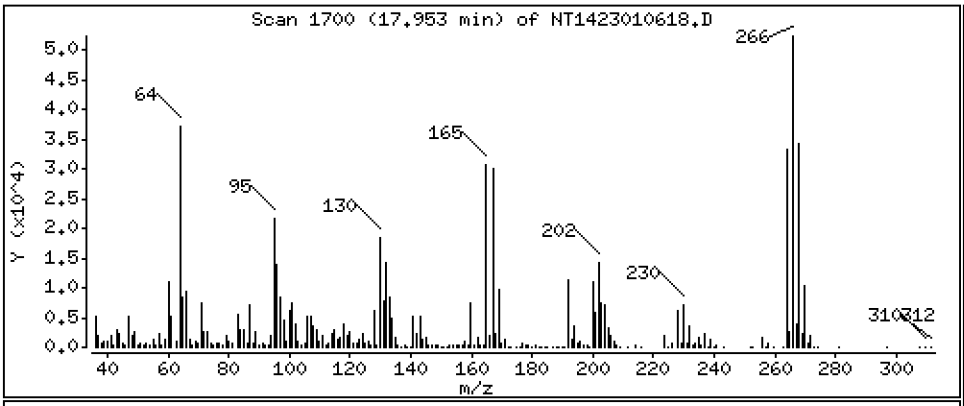
Operator: VTS

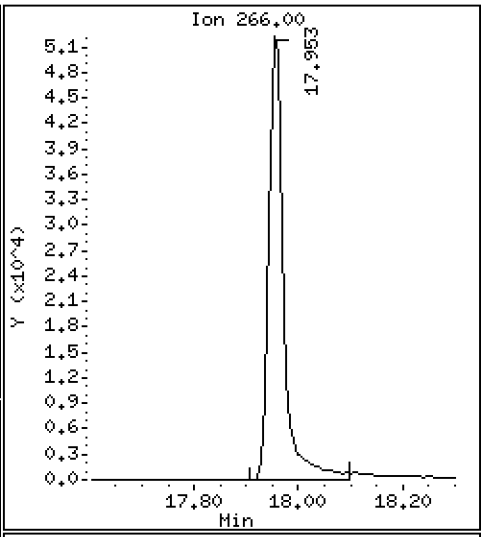
Column phase: ZB-5msi

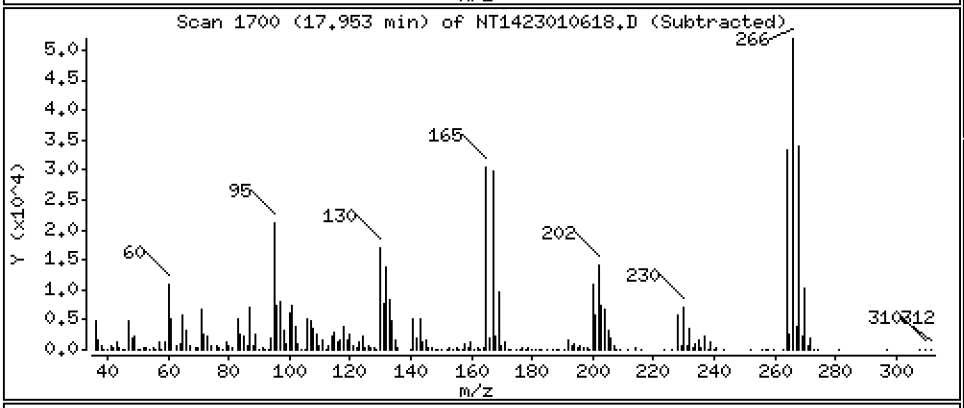
Column diameter: 0.25

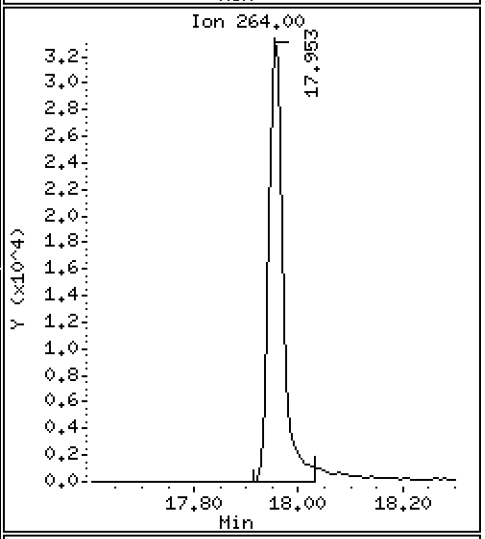
58 Pentachlorophenol

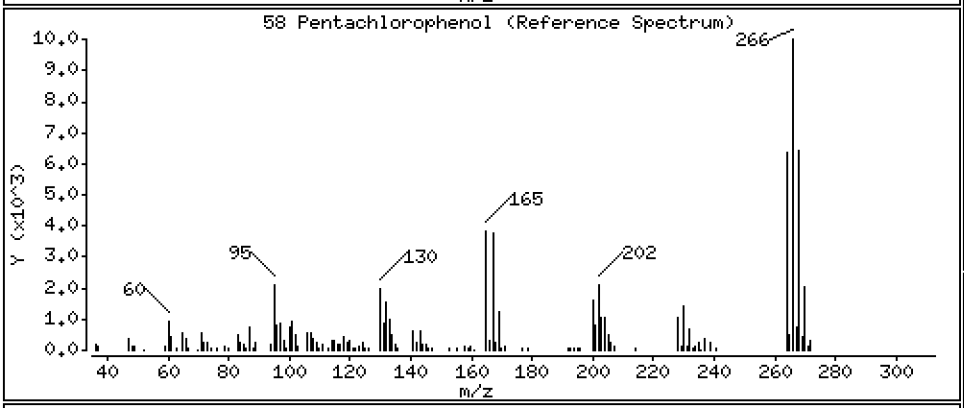
Concentration: 8.383 ug/mL

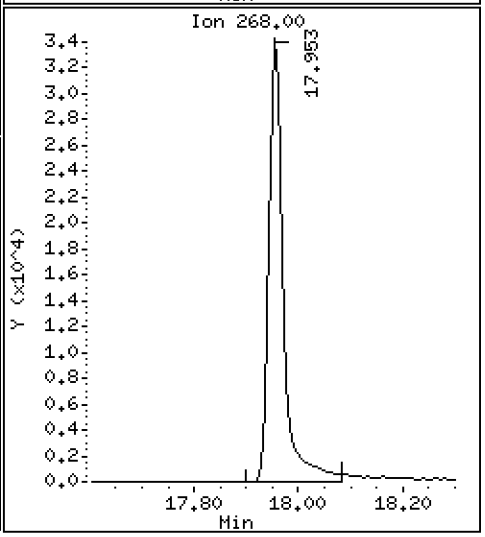


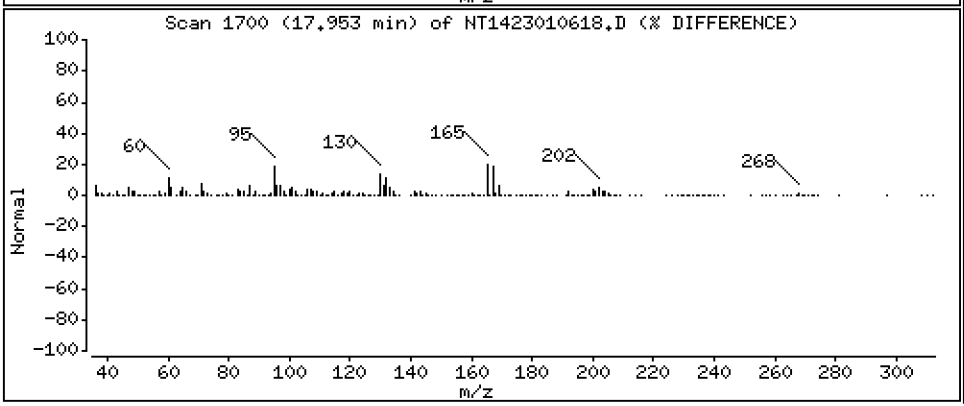












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

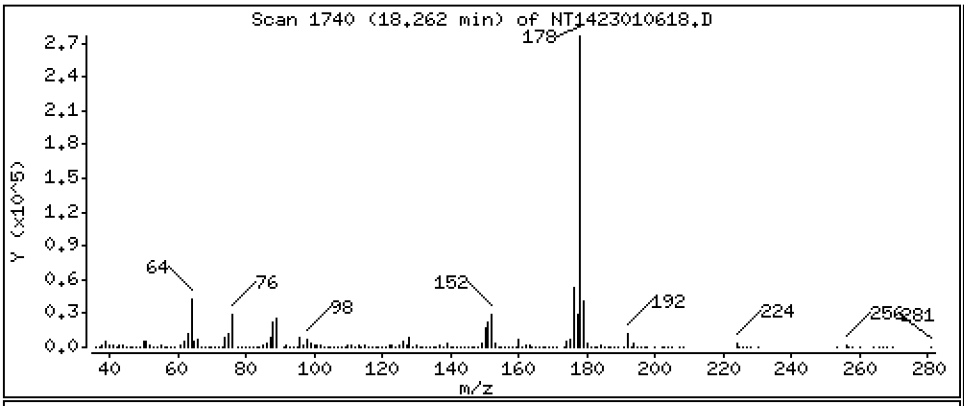
Operator: VTS

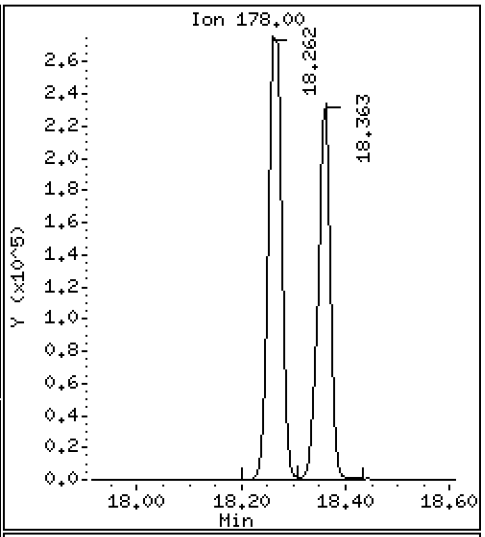
Column phase: ZB-5msi

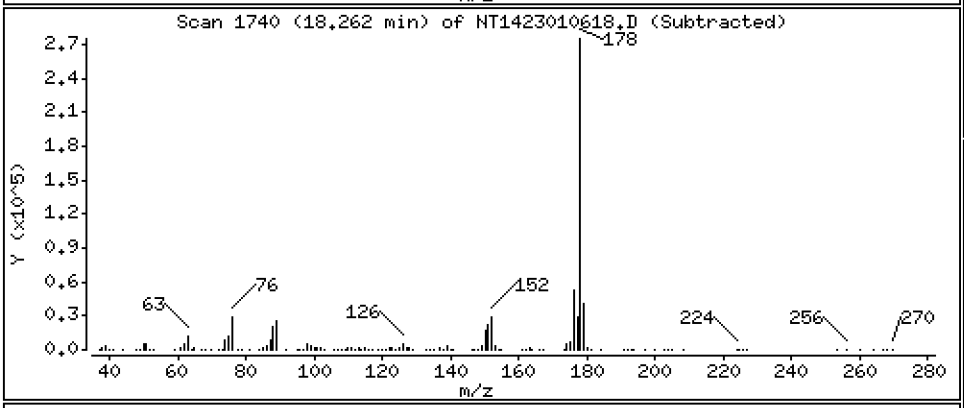
Column diameter: 0.25

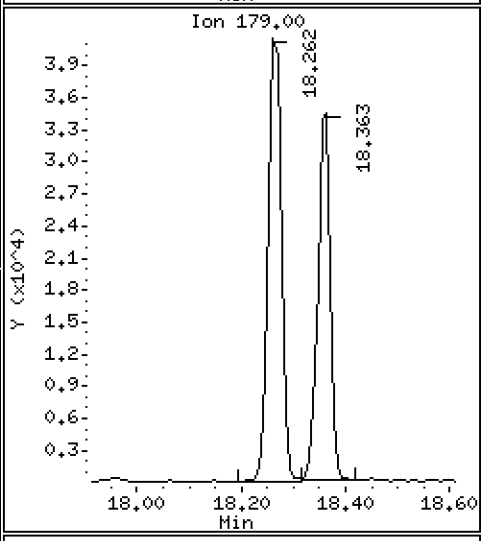
60 Phenanthrene

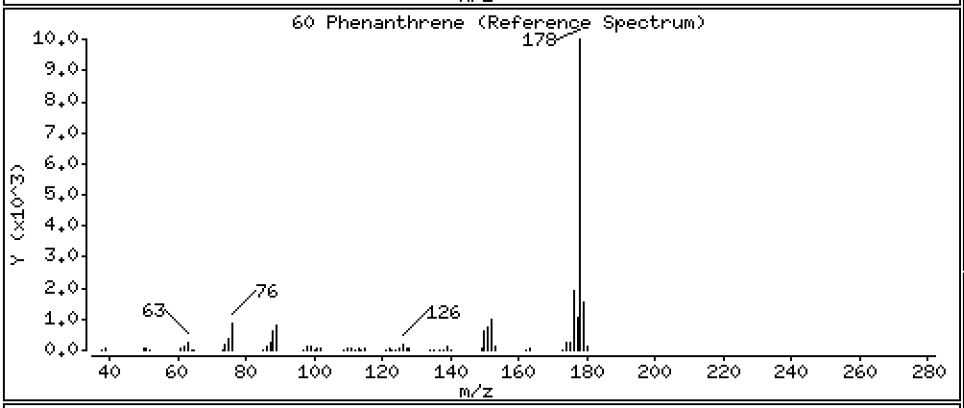
Concentration: 4.749 ug/mL

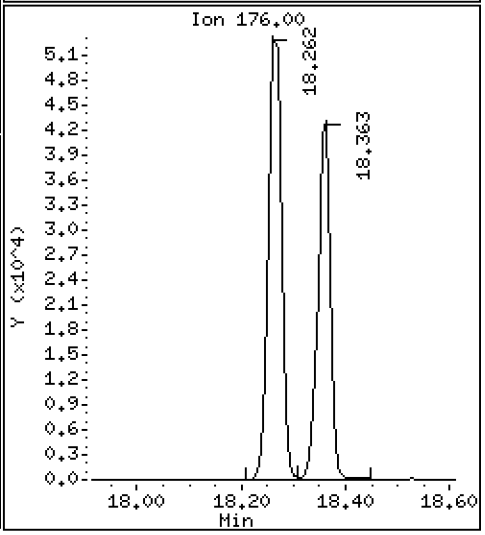


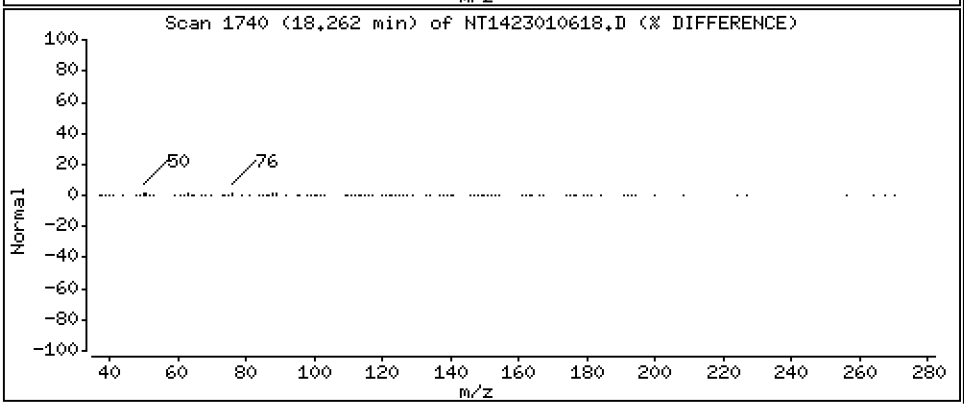












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

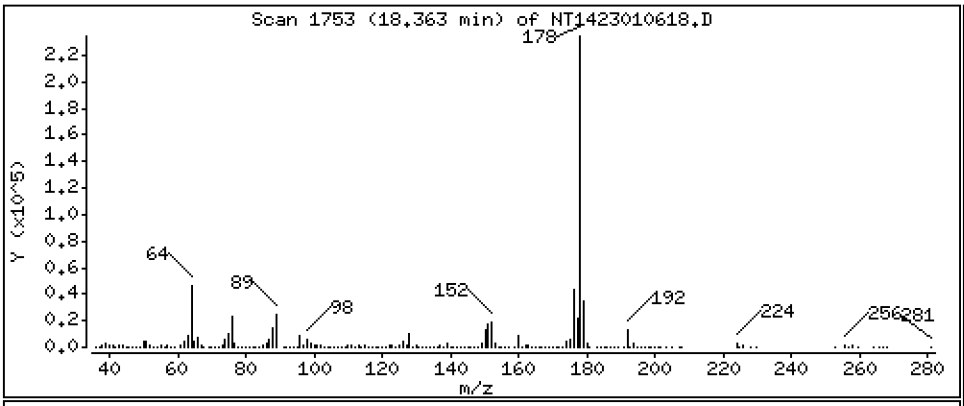
Operator: VTS

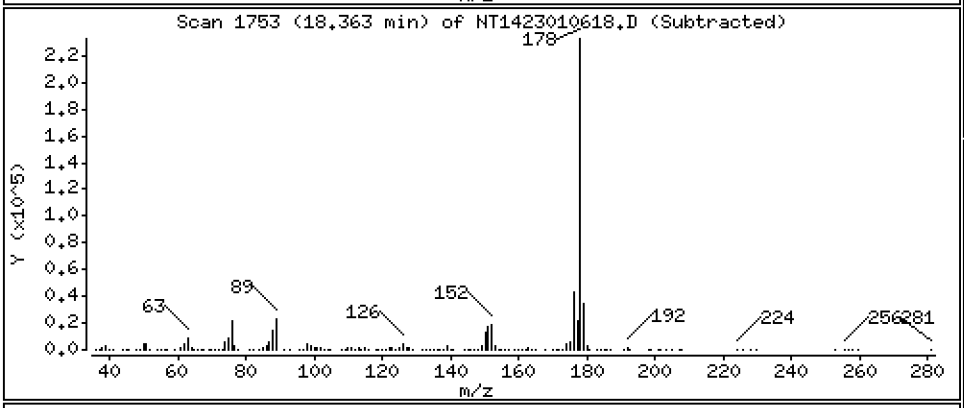
Column phase: ZB-5msi

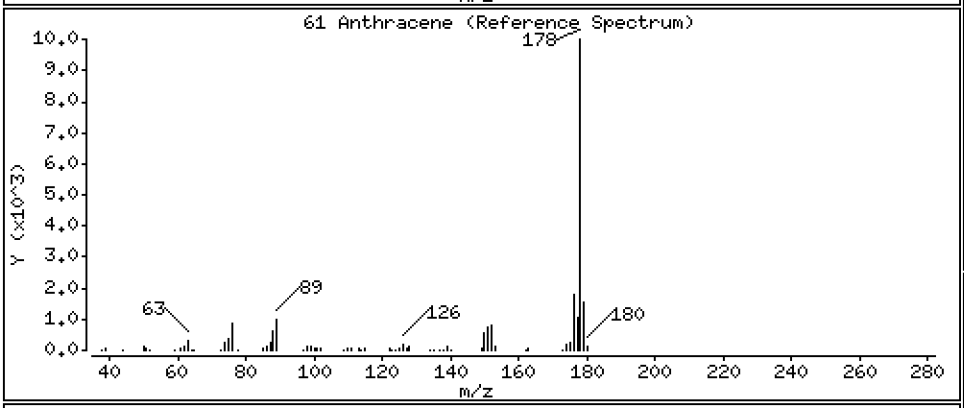
Column diameter: 0.25

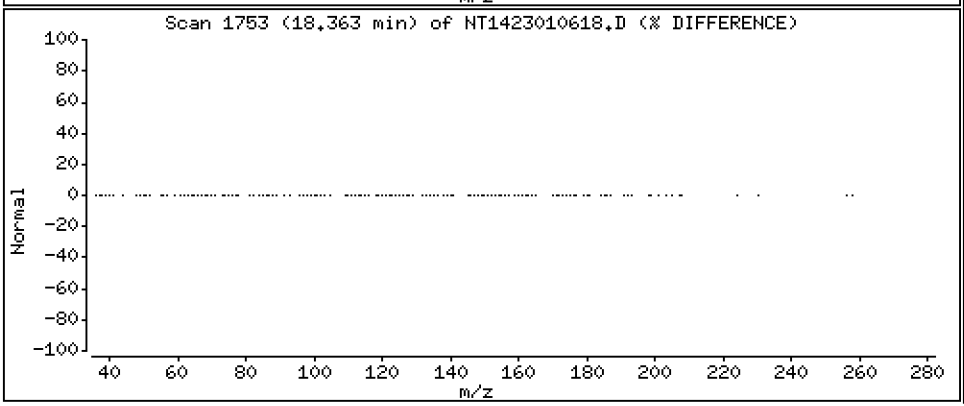
61 Anthracene

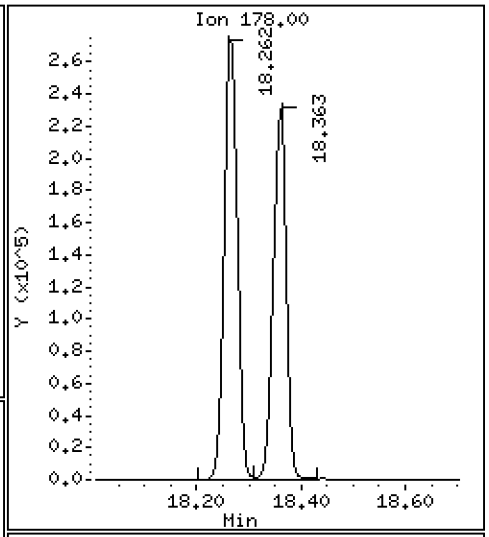
Concentration: 4.117 ug/mL

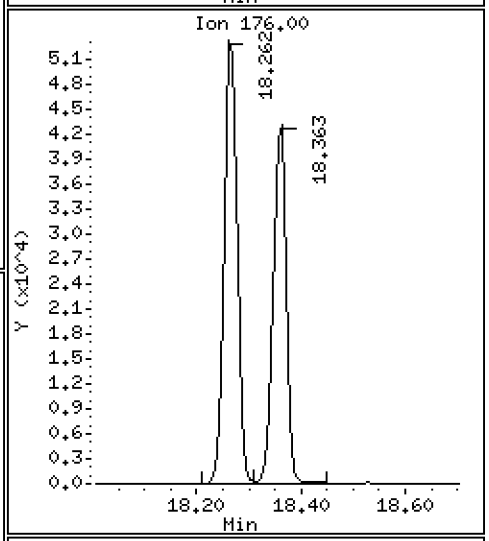


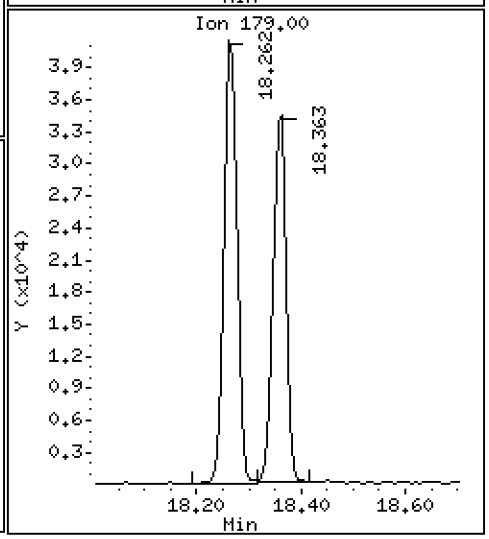












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

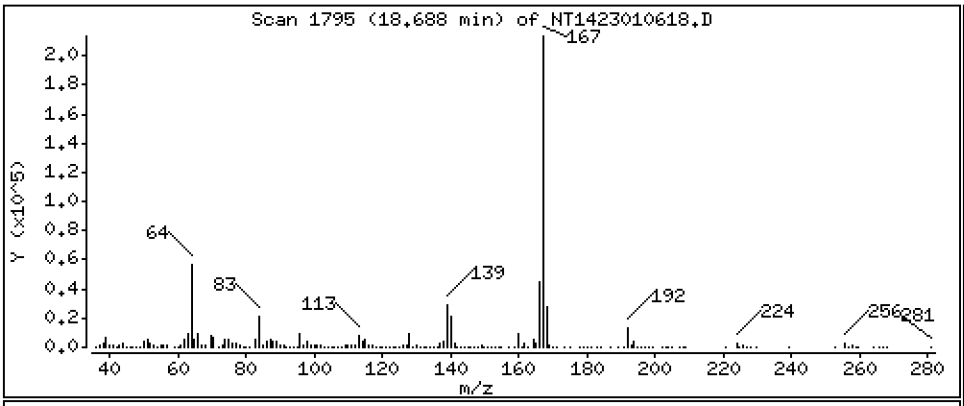
Operator: VTS

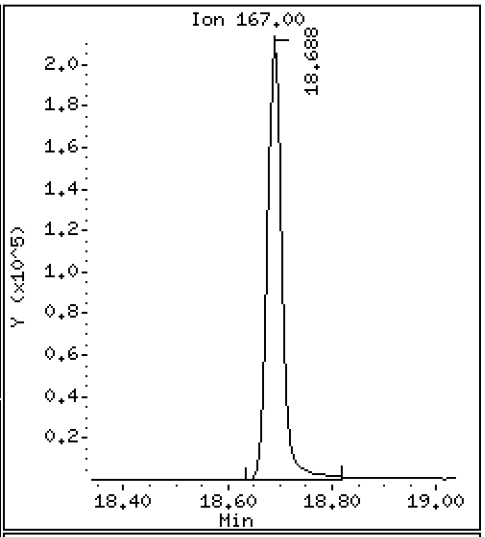
Column phase: ZB-5msi

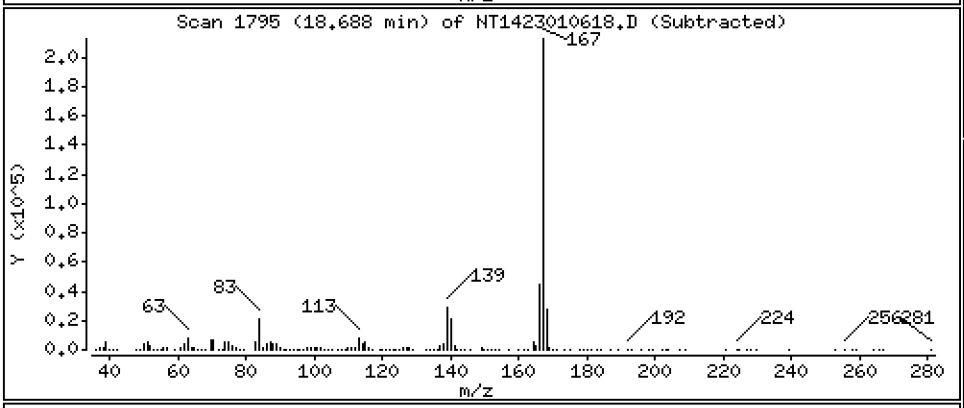
Column diameter: 0.25

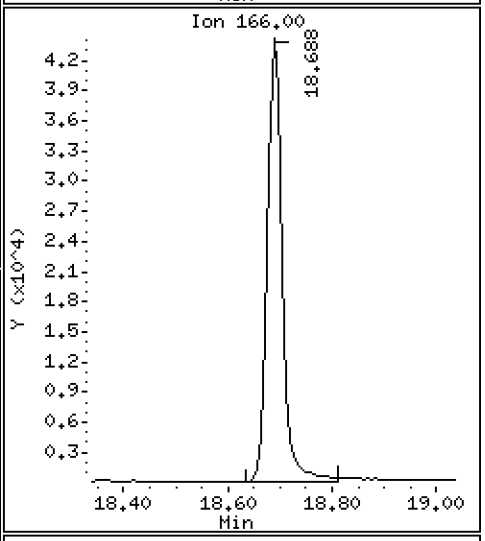
62 Carbazole

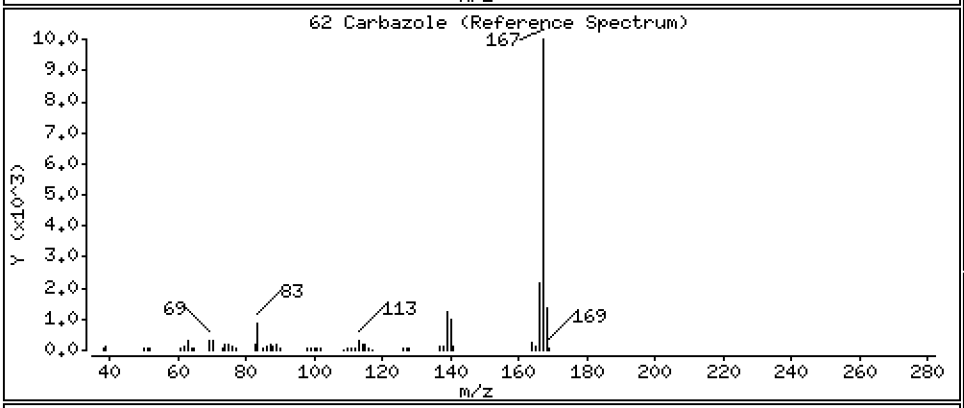
Concentration: 4.409 ug/mL

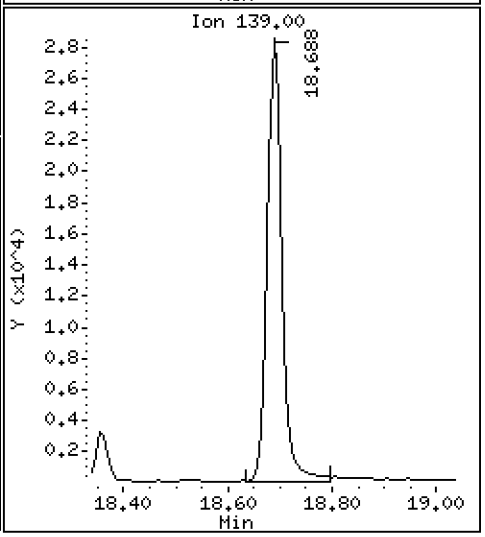


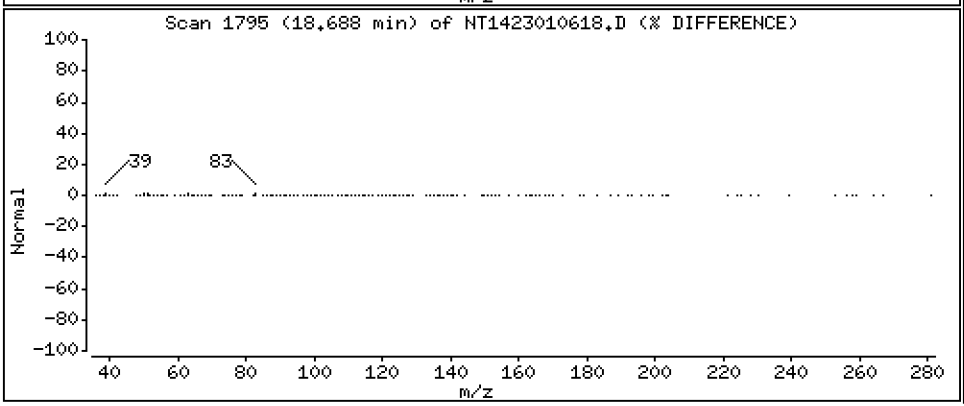












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

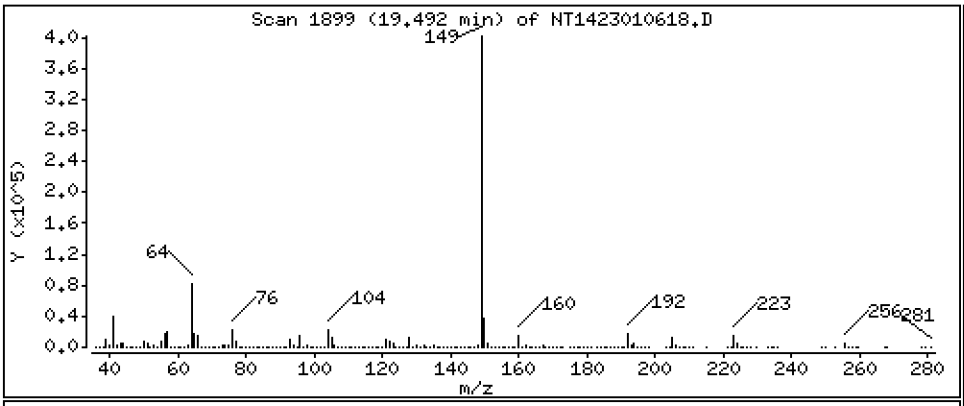
Operator: VTS

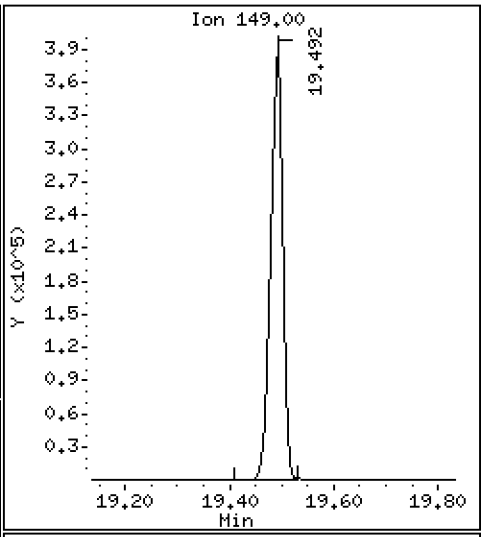
Column phase: ZB-5msi

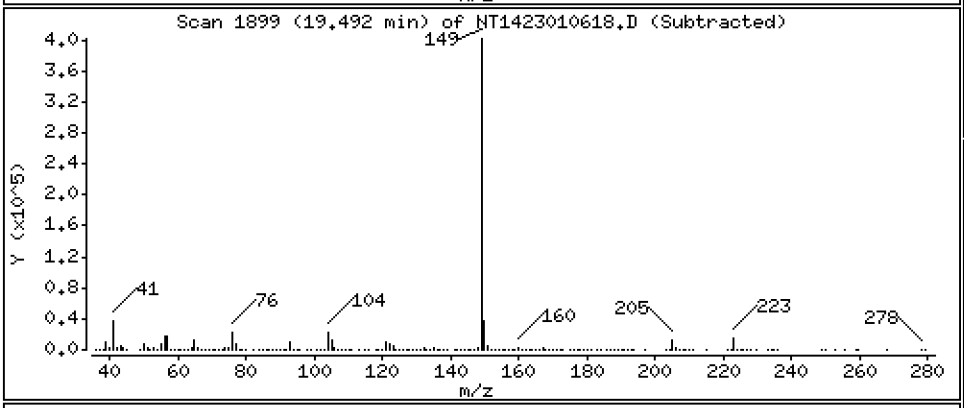
Column diameter: 0.25

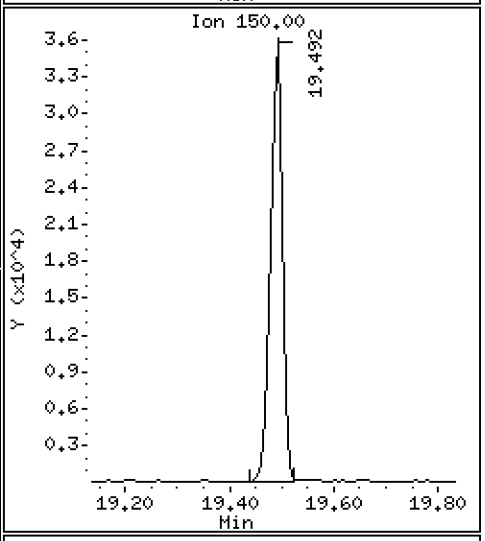
63 Di-n-butylphthalate

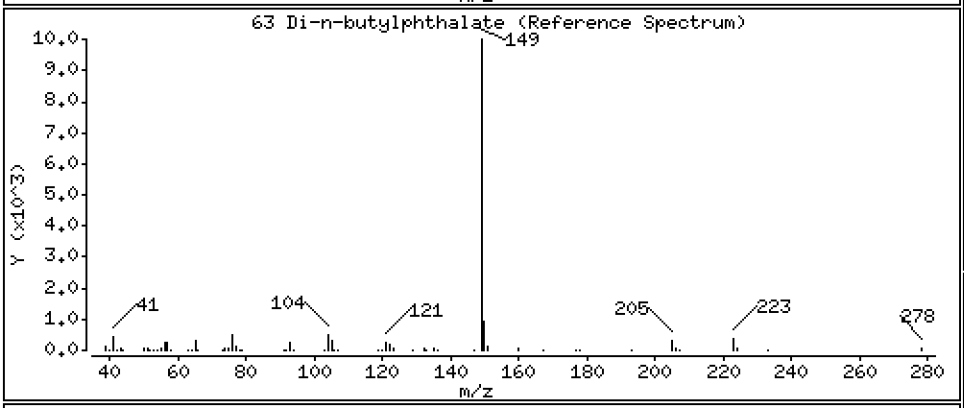
Concentration: 5.718 ug/mL

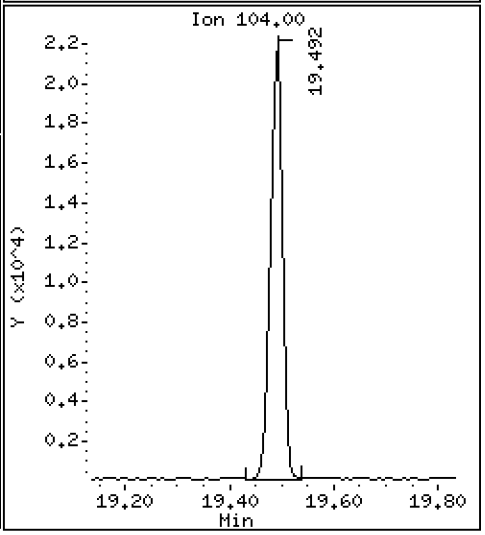


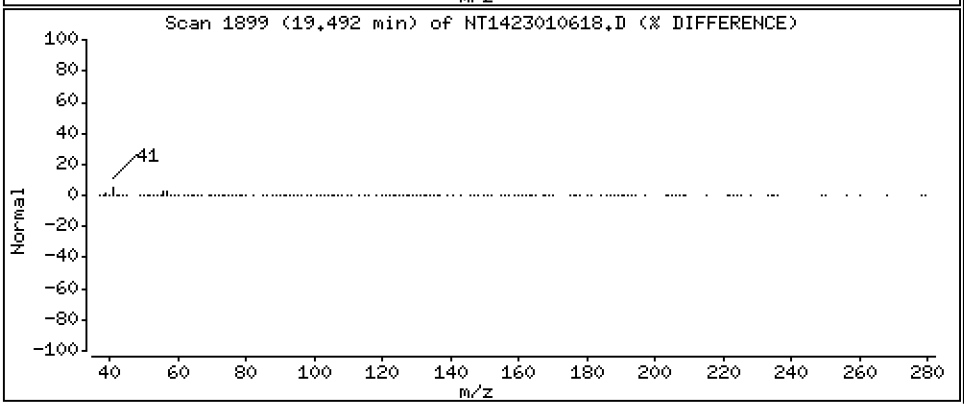












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

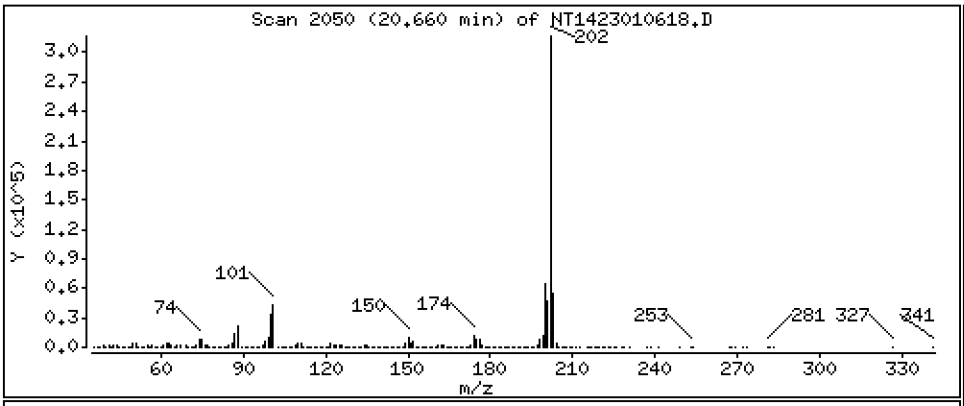
Operator: VTS

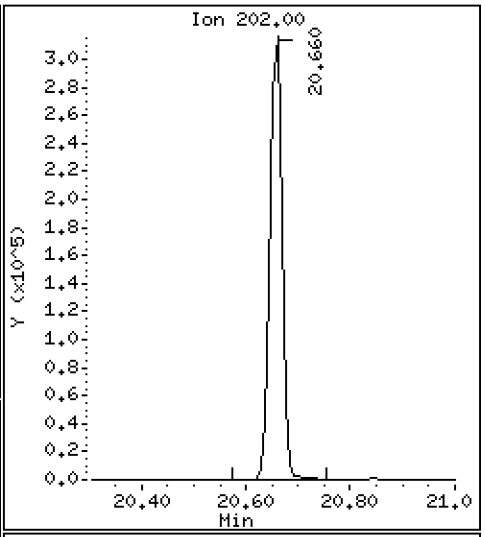
Column phase: ZB-5msi

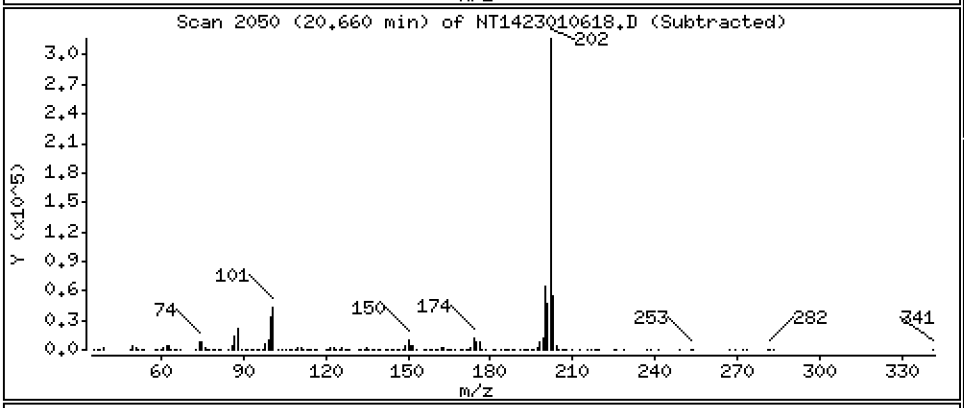
Column diameter: 0.25

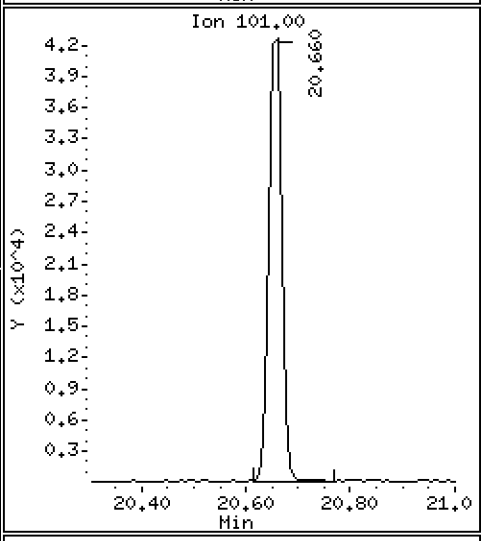
64 Fluoranthene

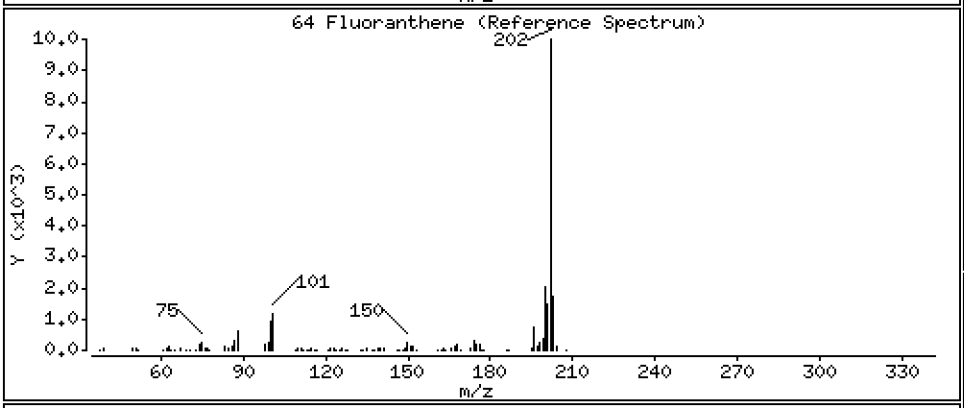
Concentration: 5.467 ug/mL

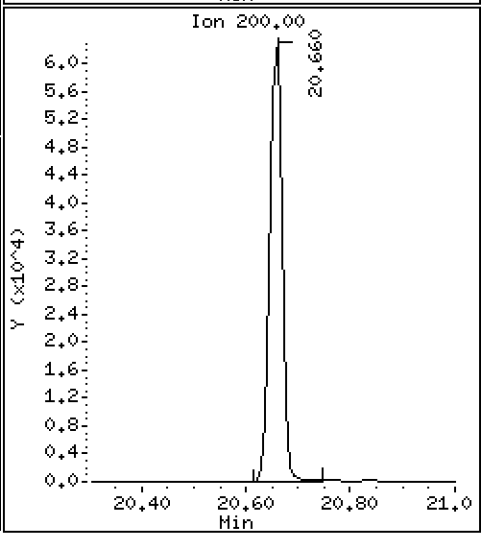


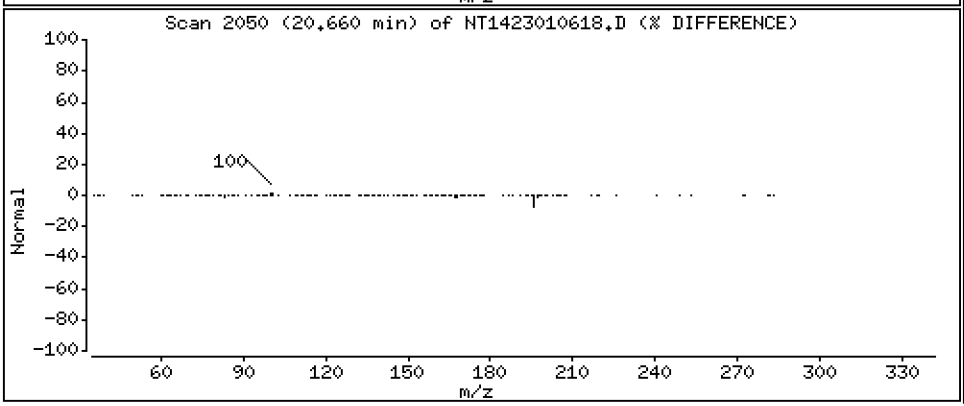












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

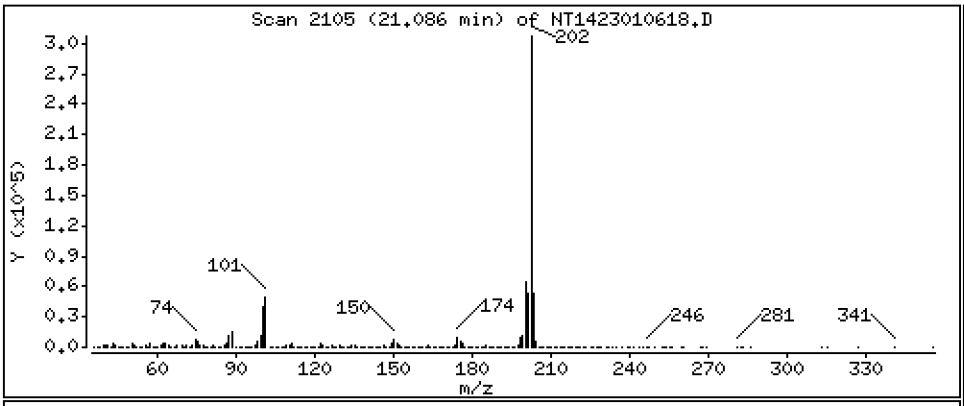
Operator: VTS

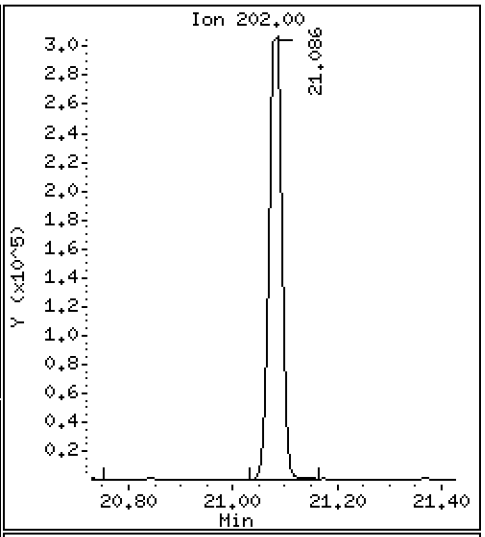
Column phase: ZB-5msi

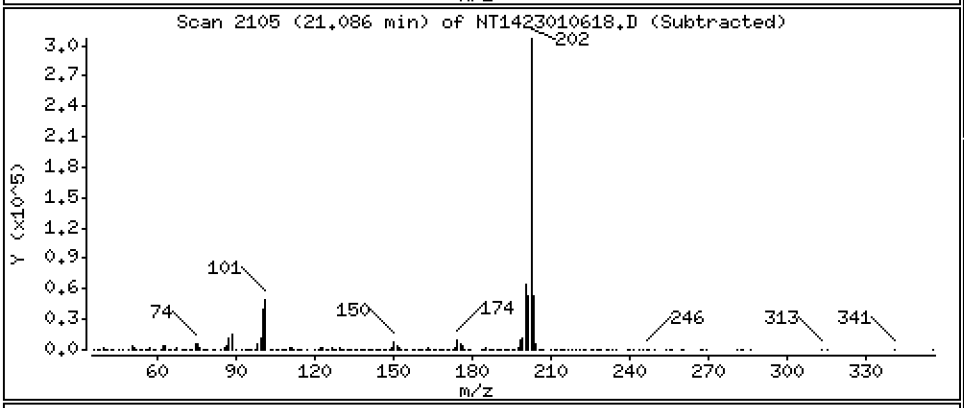
Column diameter: 0.25

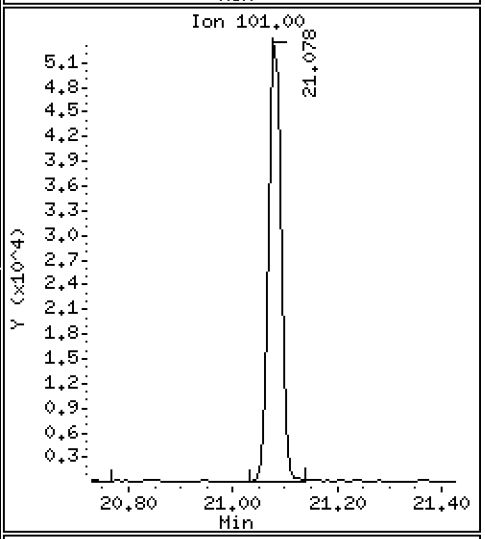
65 Pyrene

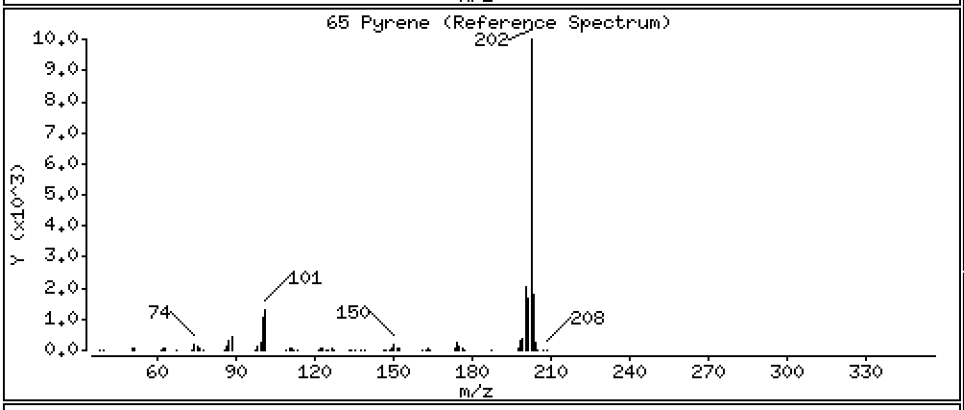
Concentration: 5.270 ug/mL

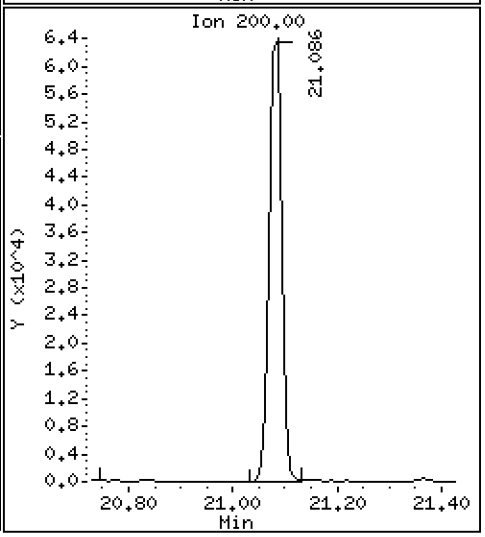


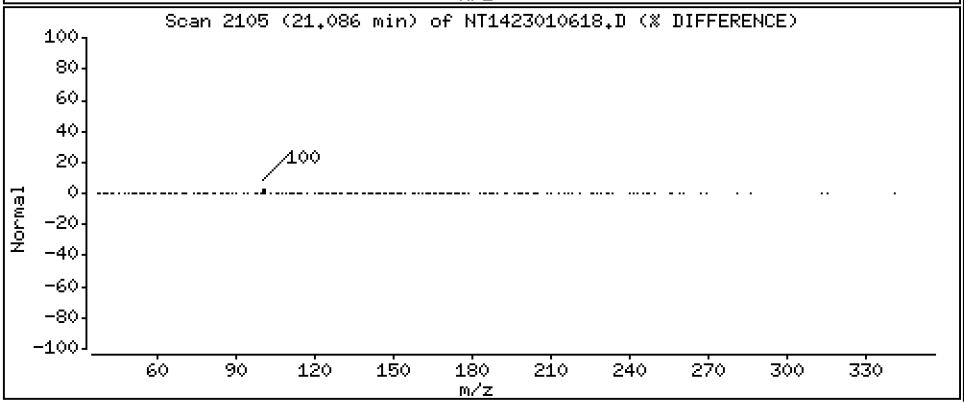












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

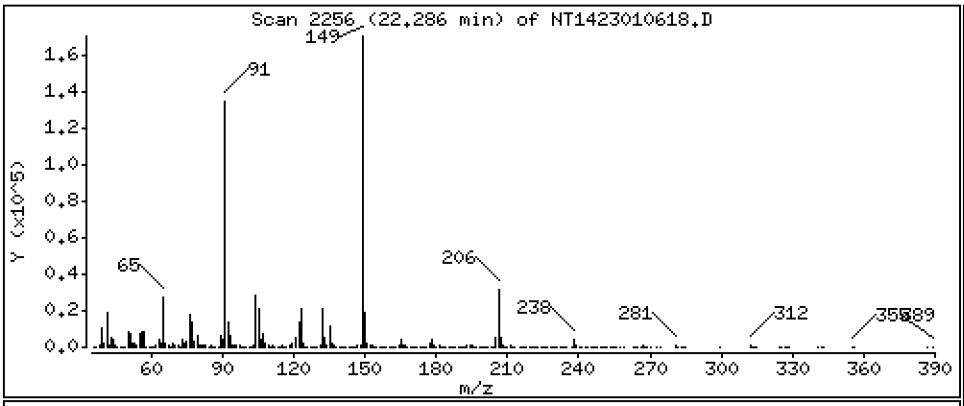
Operator: VTS

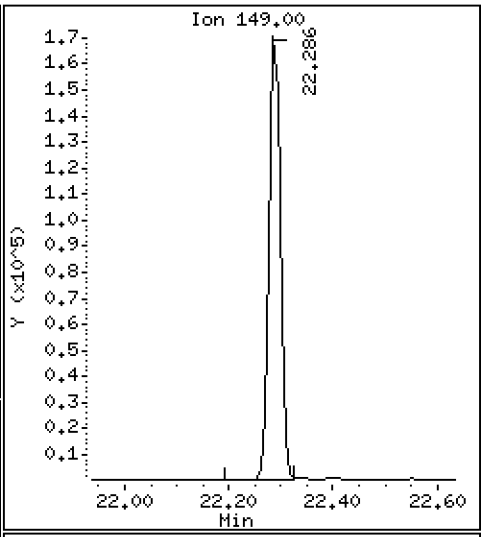
Column phase: ZB-5msi

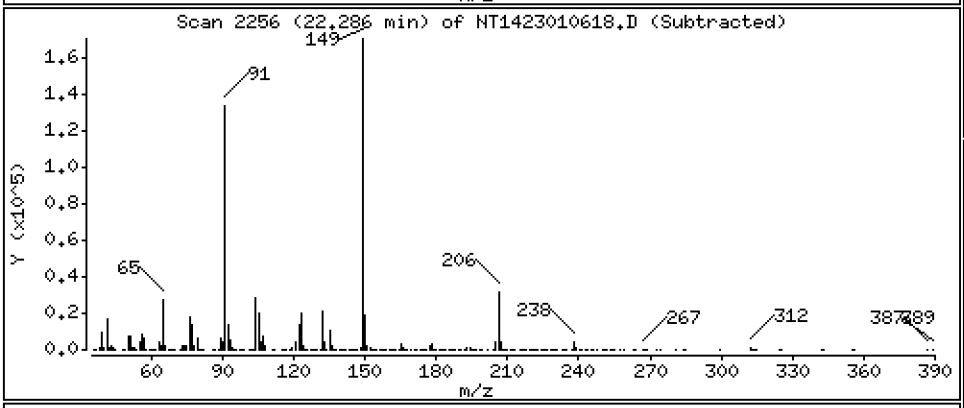
Column diameter: 0.25

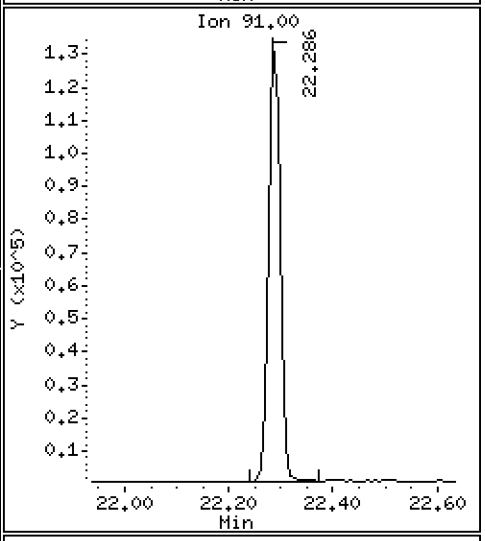
67 Butylbenzylphthalate

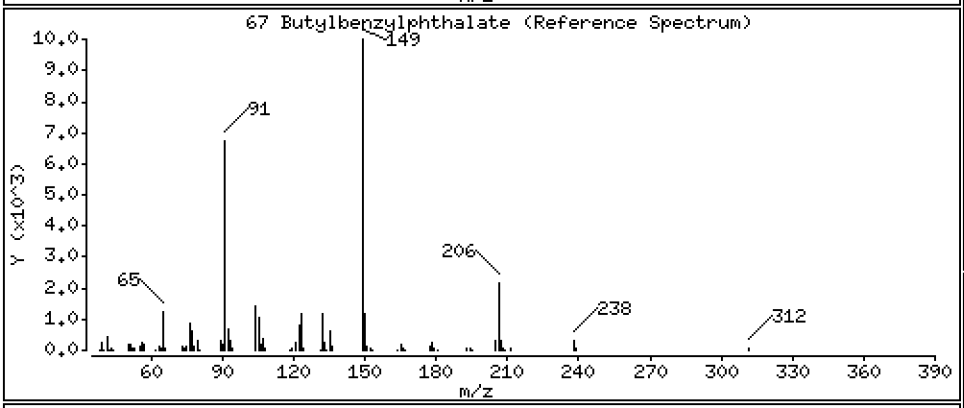
Concentration: 7.580 ug/mL

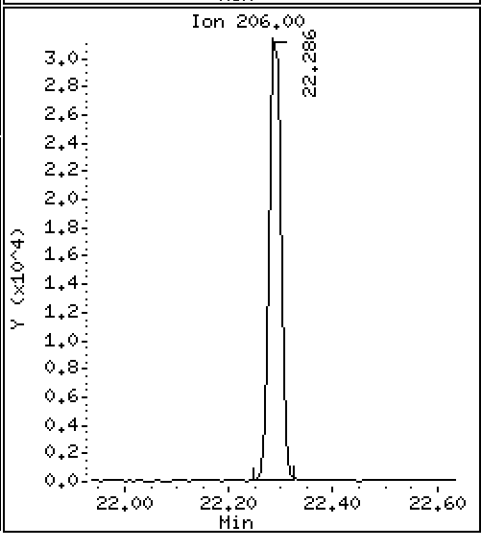


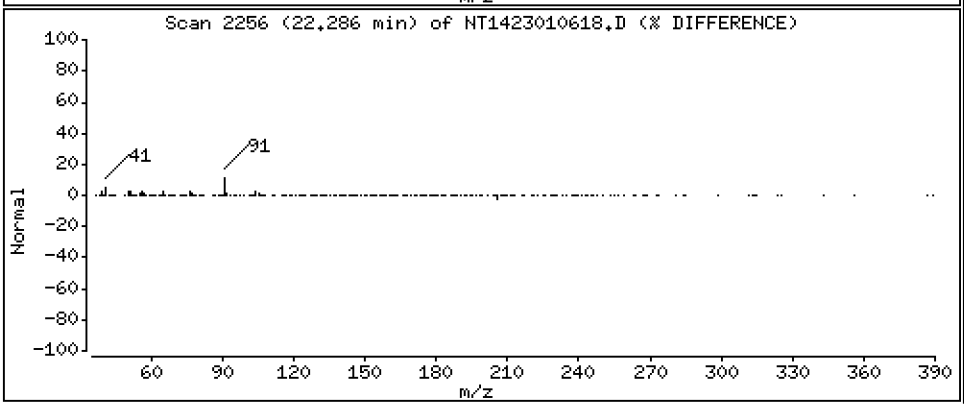












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

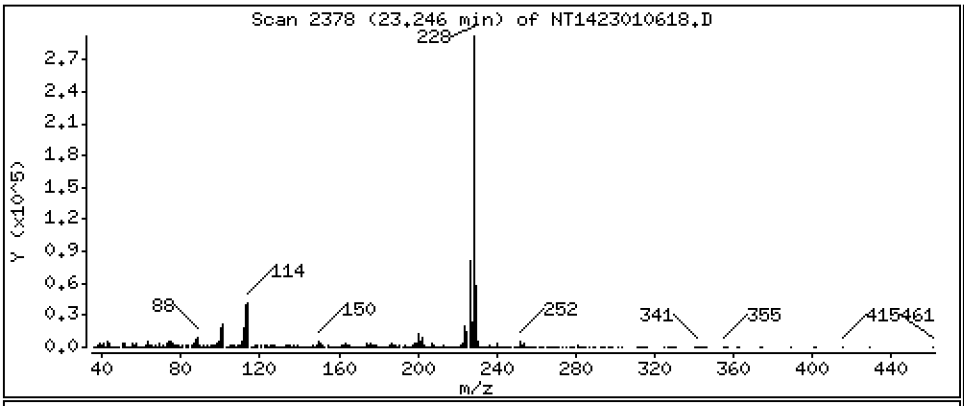
Operator: VTS

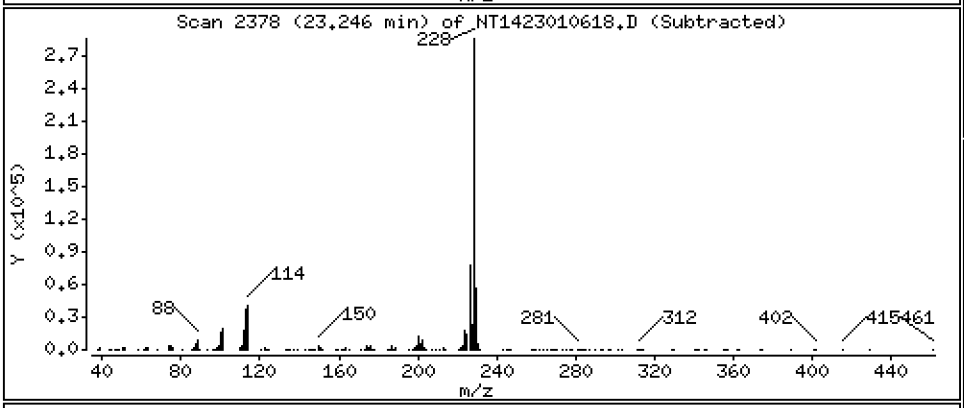
Column phase: ZB-5msi

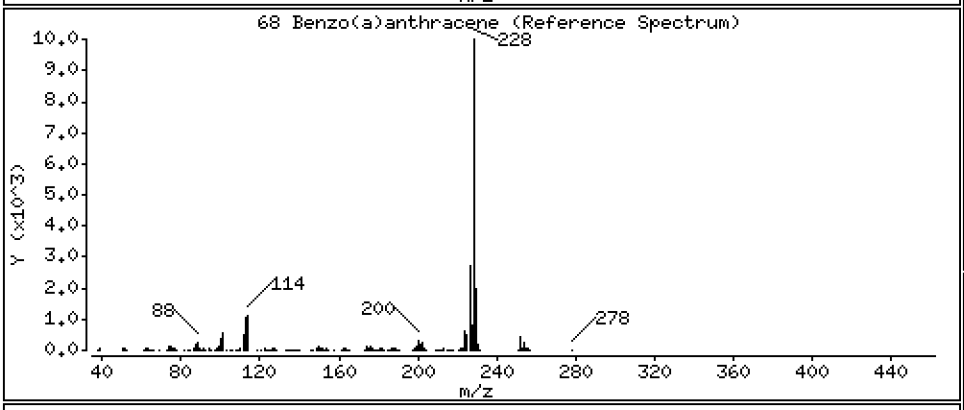
Column diameter: 0.25

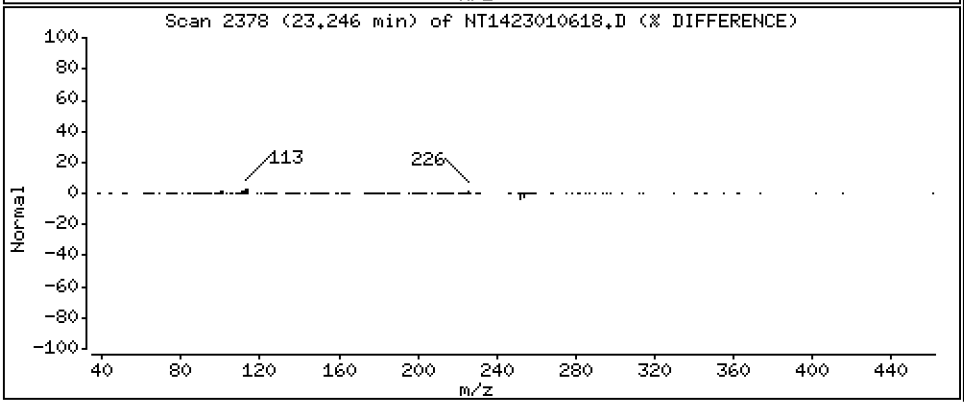
68 Benzo(a)anthracene

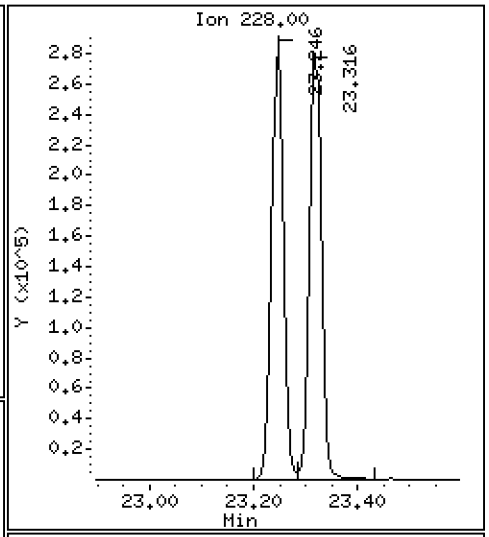
Concentration: 5.114 ug/mL

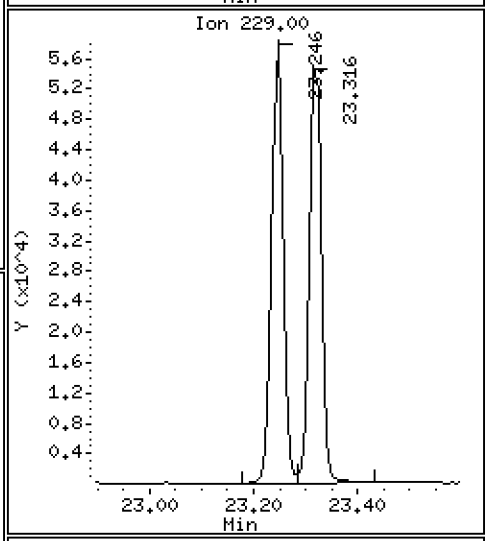


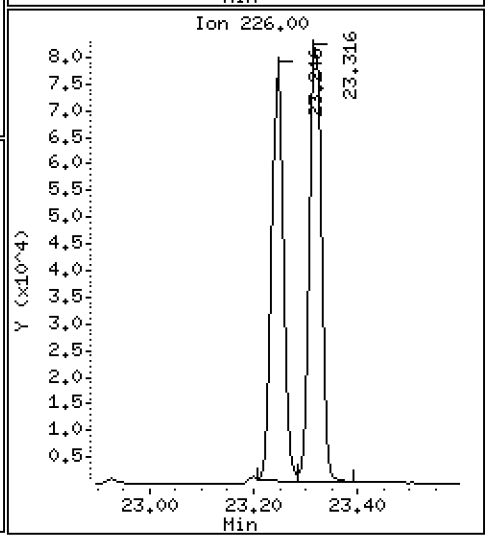












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

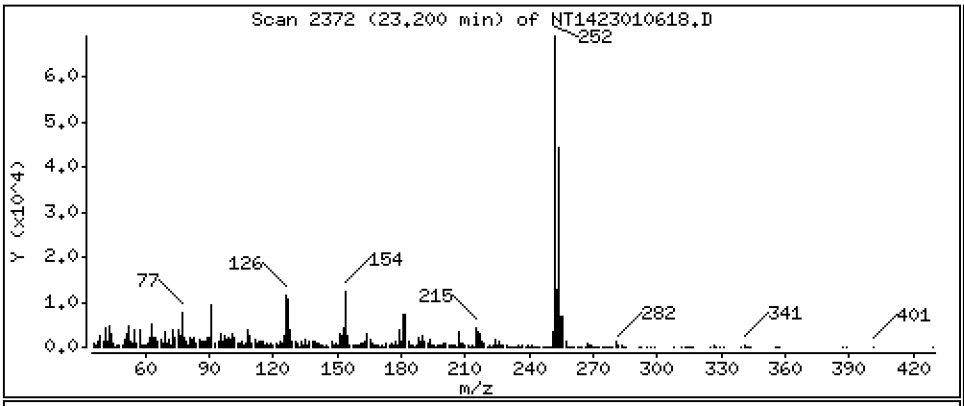
Operator: VTS

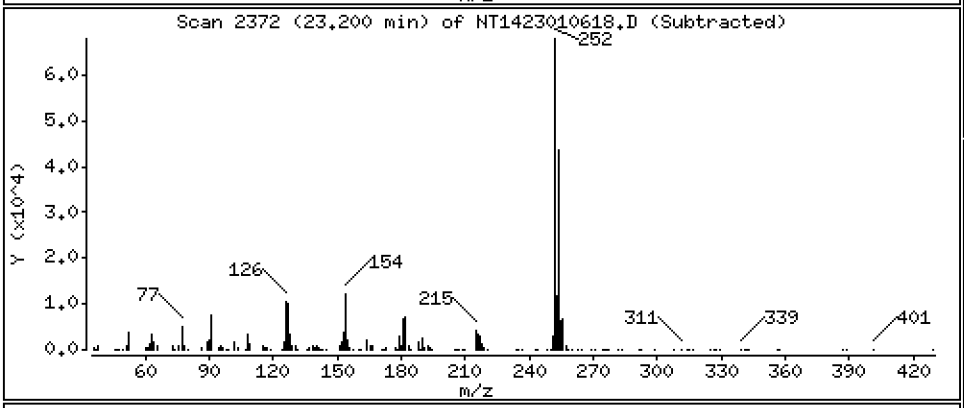
Column phase: ZB-5msi

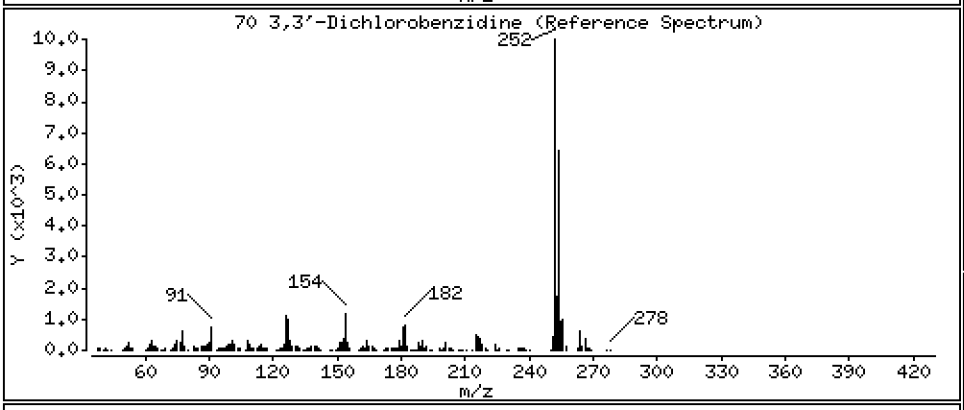
Column diameter: 0.25

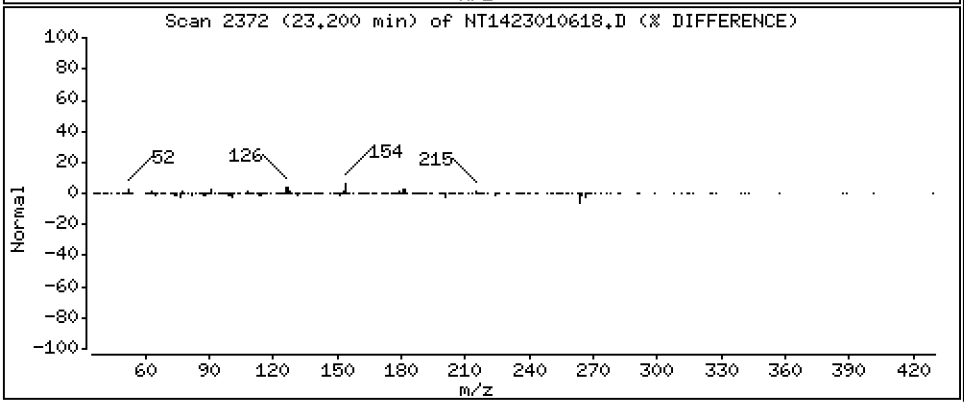
70 3,3'-Dichlorobenzidine

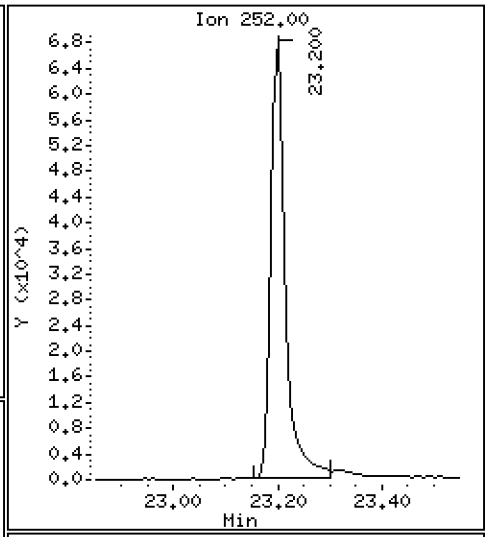
Concentration: 4.958 ug/mL

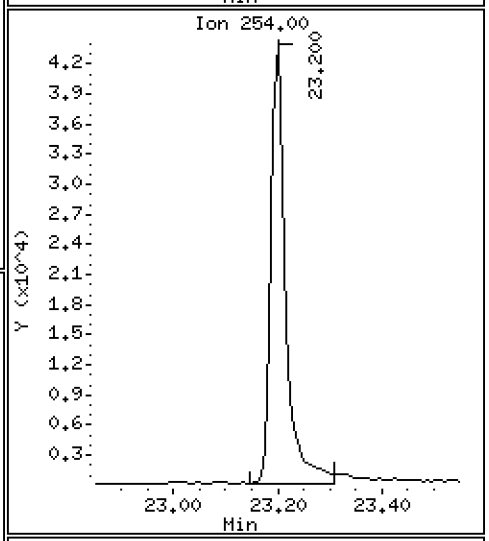


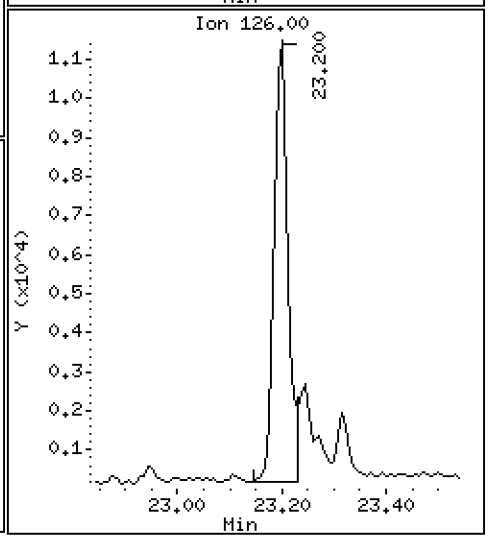












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

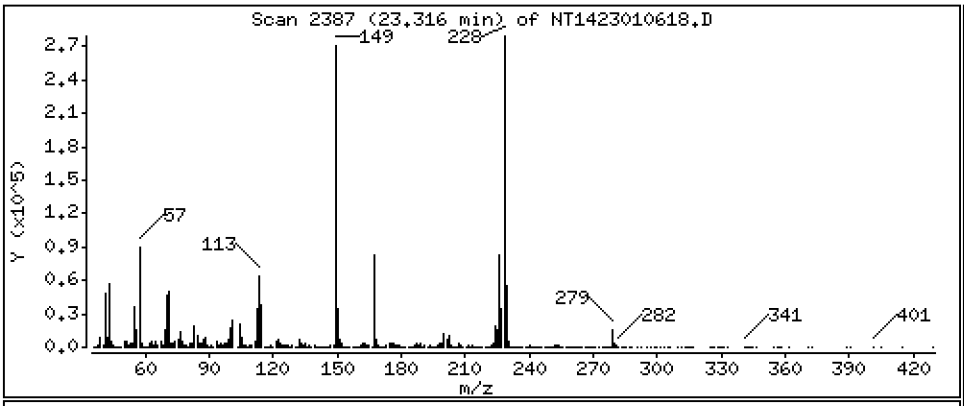
Operator: VTS

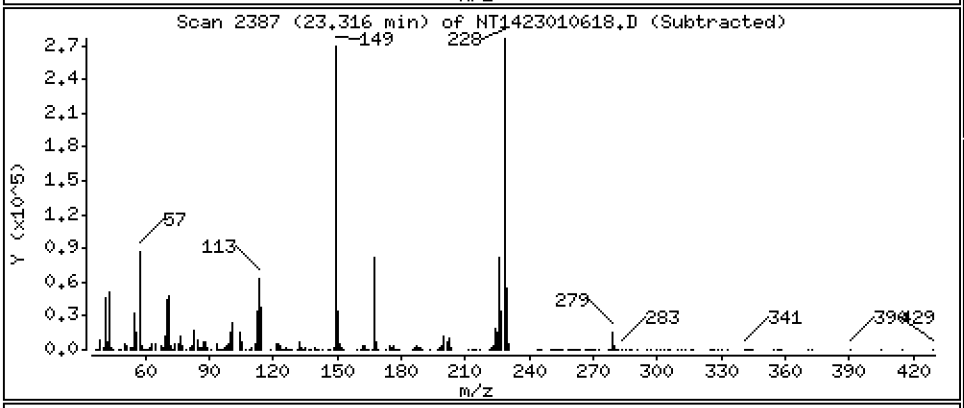
Column phase: ZB-5msi

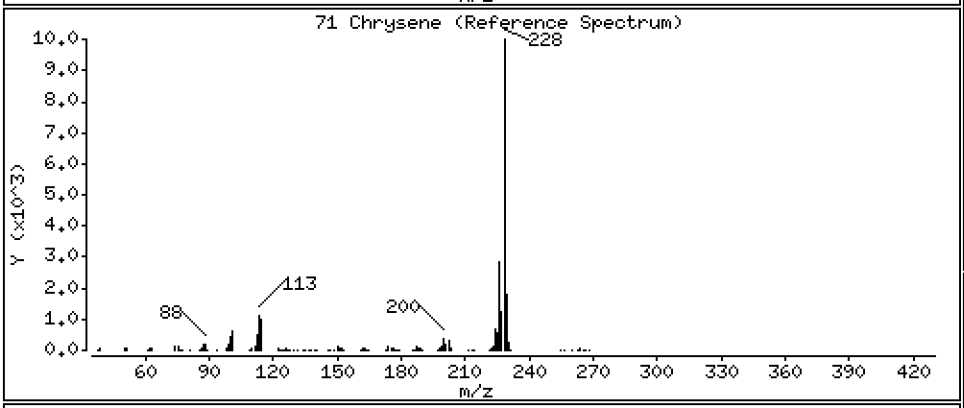
Column diameter: 0.25

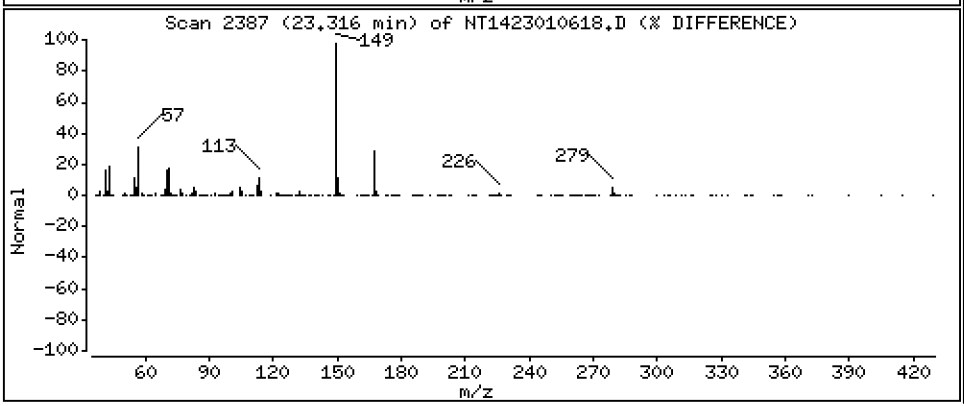
71 Chrysene

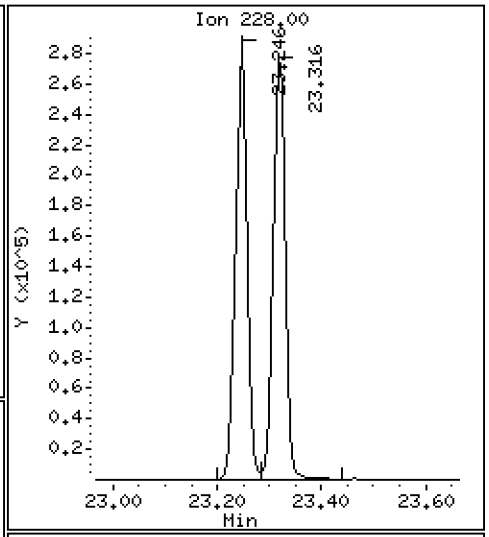
Concentration: 5.360 ug/mL

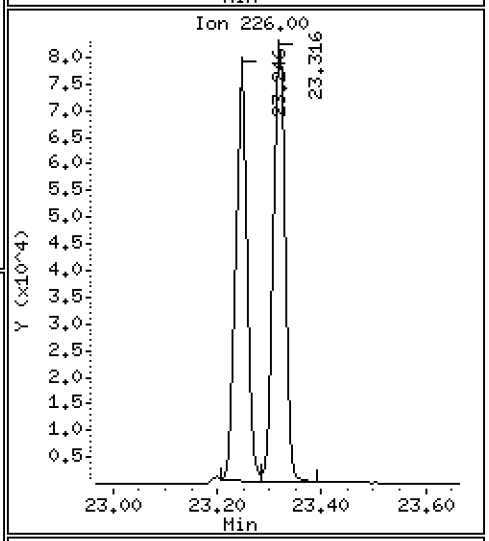


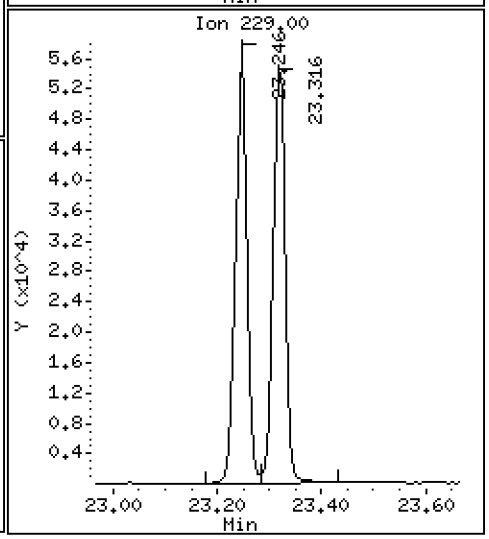












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

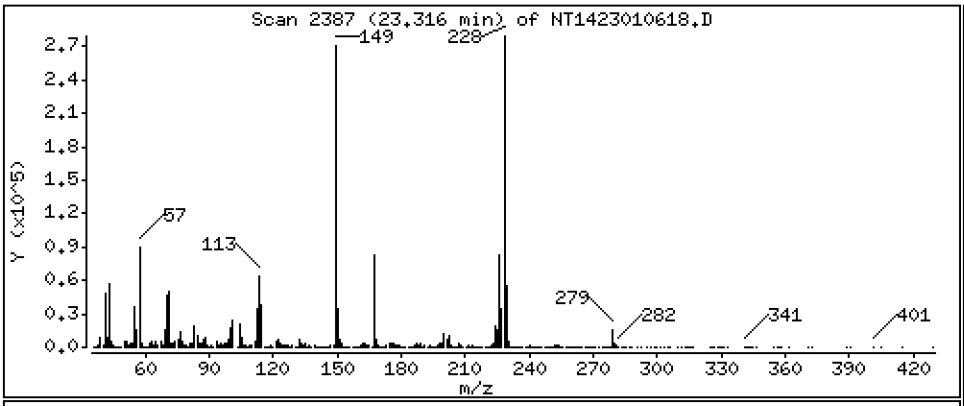
Operator: VTS

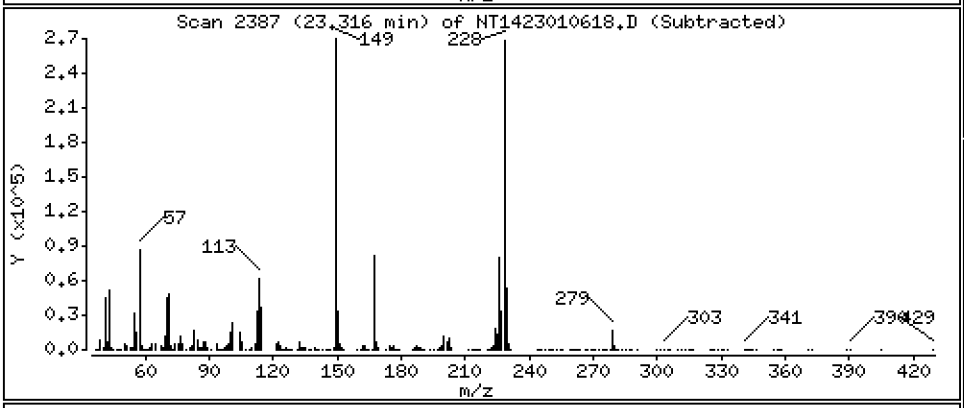
Column phase: ZB-5msi

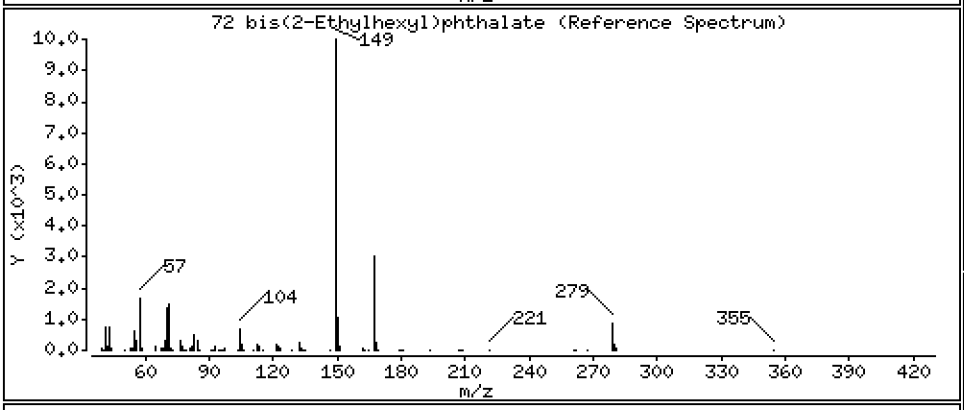
Column diameter: 0.25

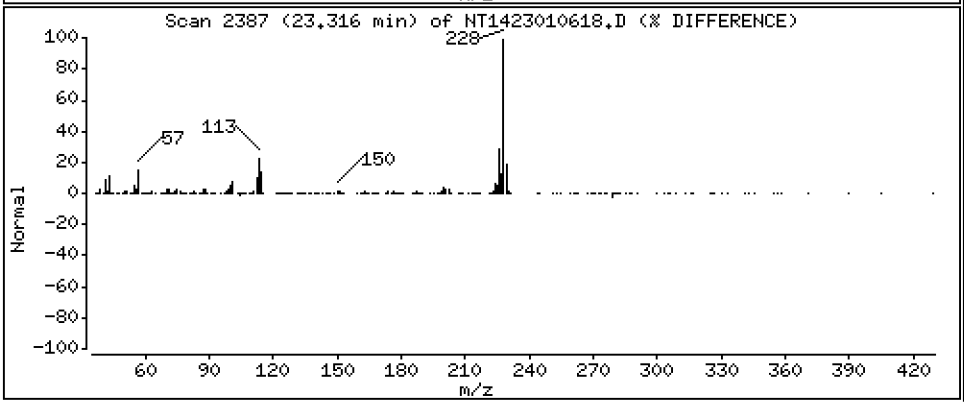
72 bis(2-Ethylhexyl)phthalate

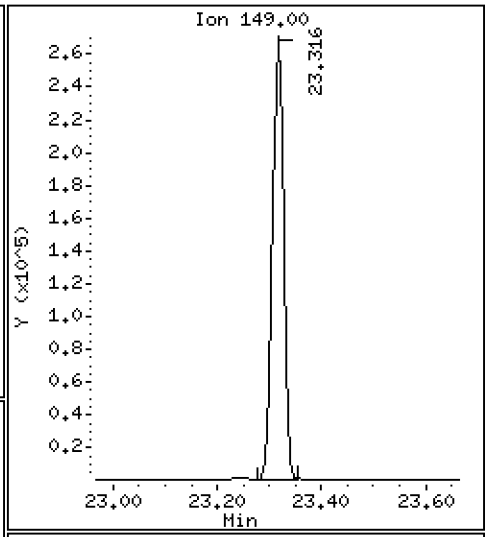
Concentration: 6.020 ug/mL

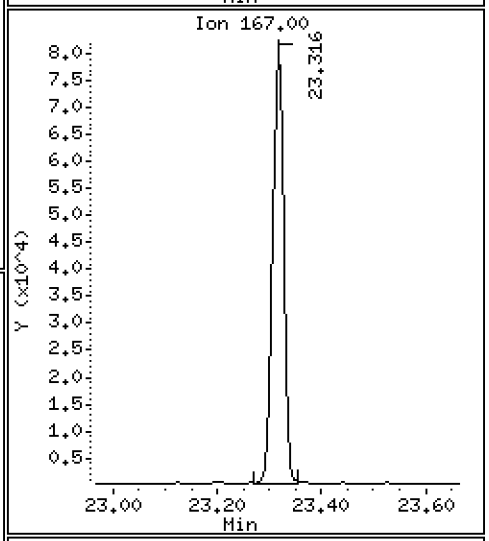


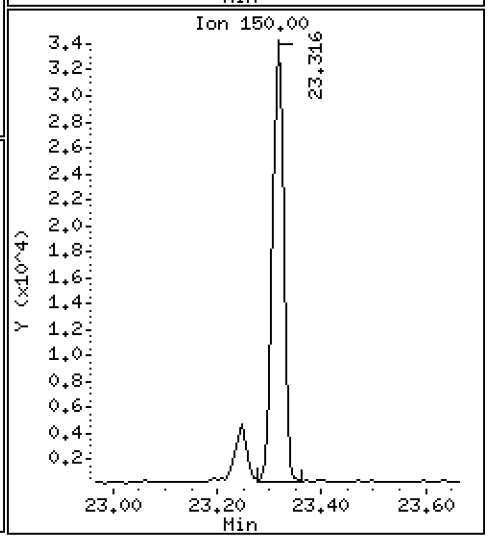












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

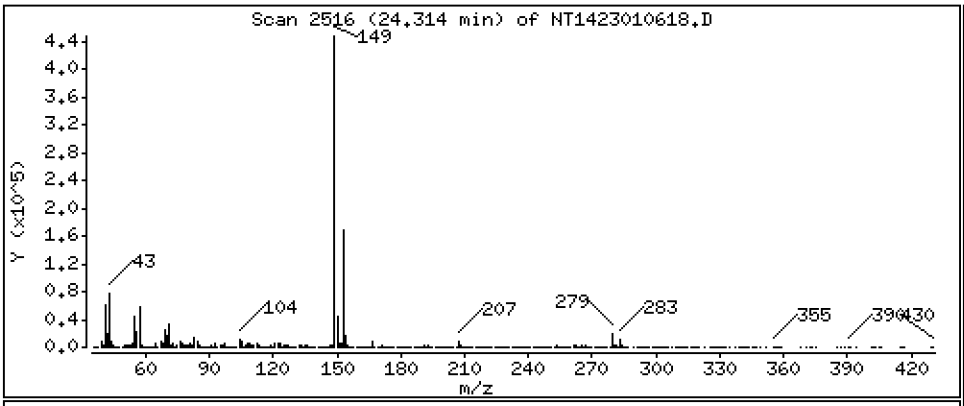
Operator: VTS

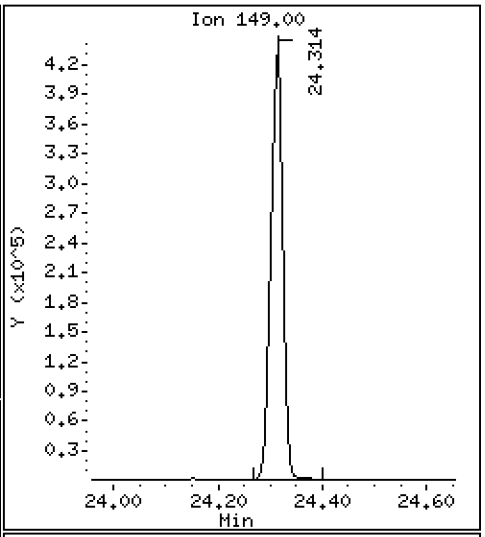
Column phase: ZB-5msi

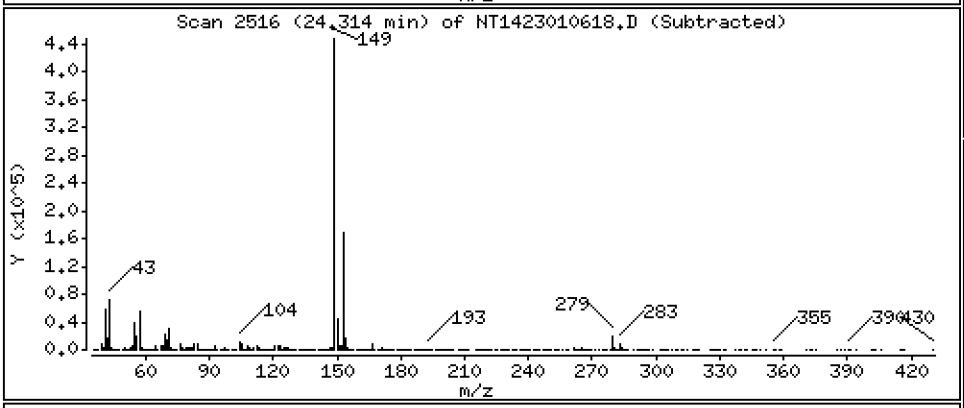
Column diameter: 0.25

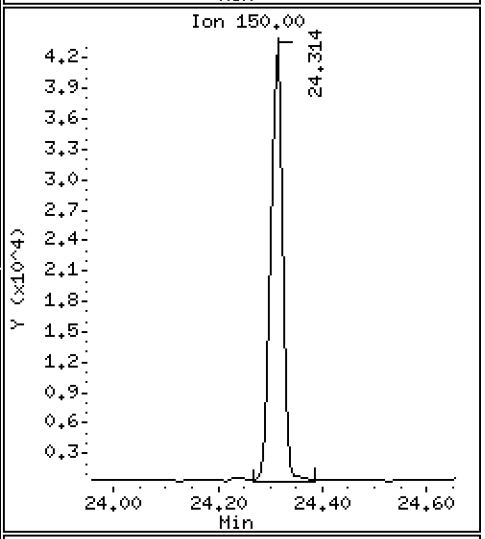
73 Di-n-octylphthalate

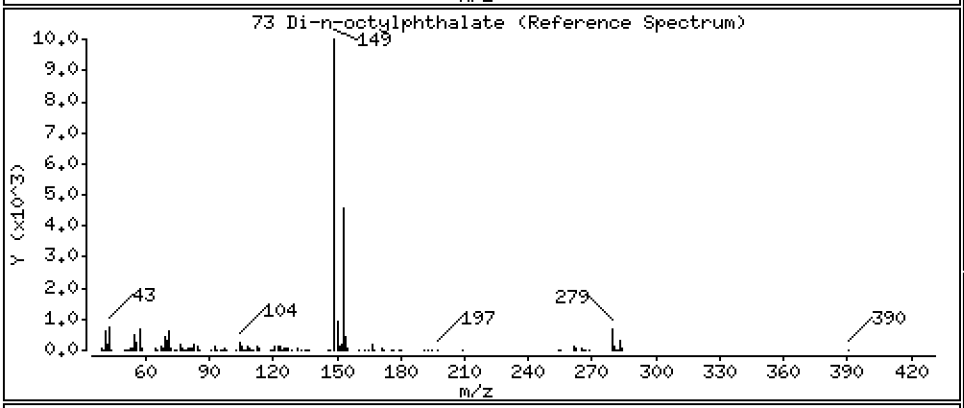
Concentration: 4.995 ug/mL

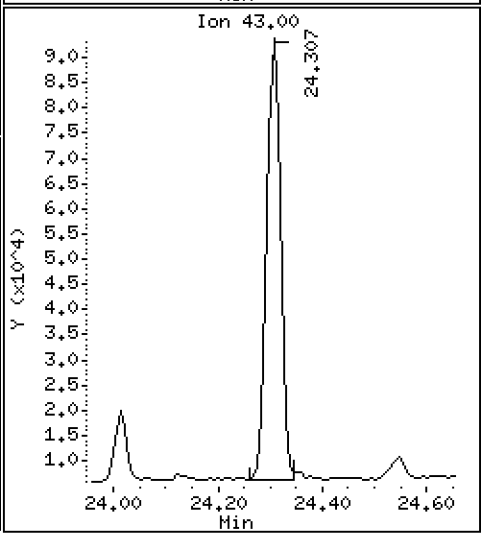


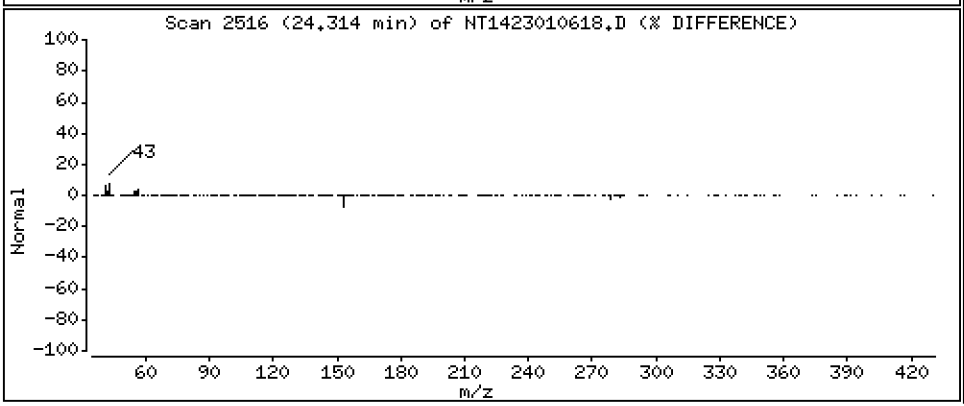












Date : 06-JAN-2023 21:51

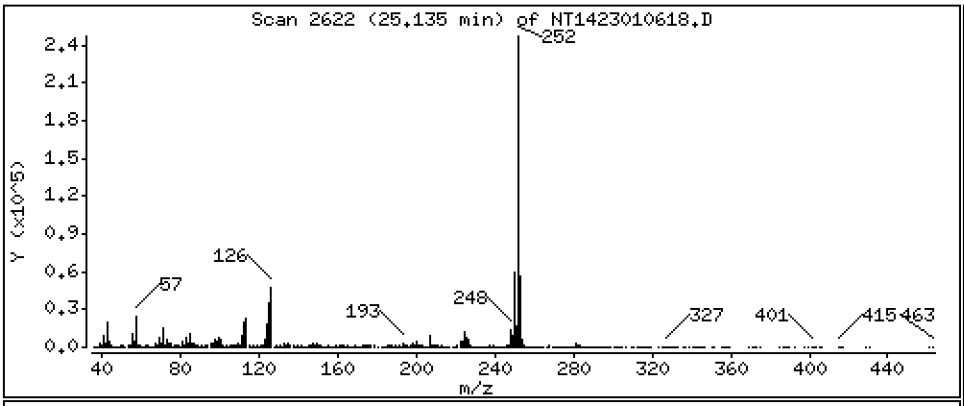
Client ID: Instrument: nt14.i

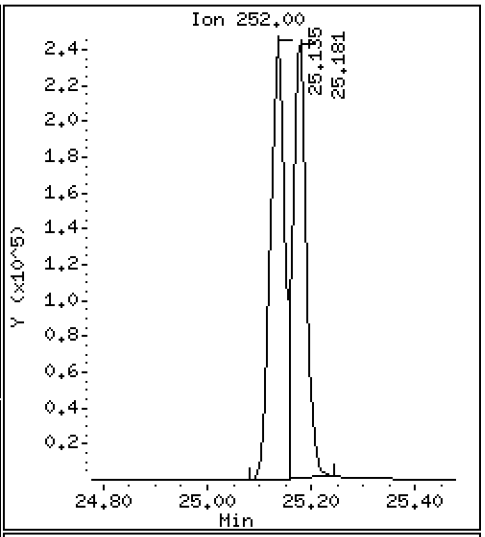
Sample Info: BKL0585-MSD1

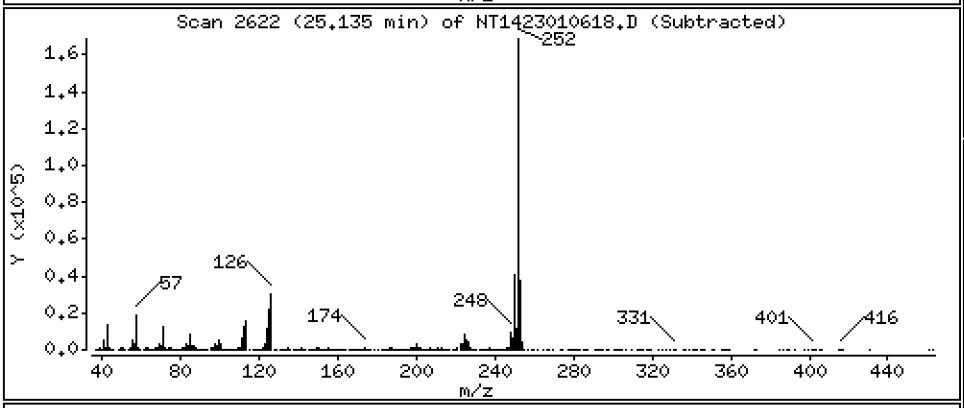
Operator: VTS

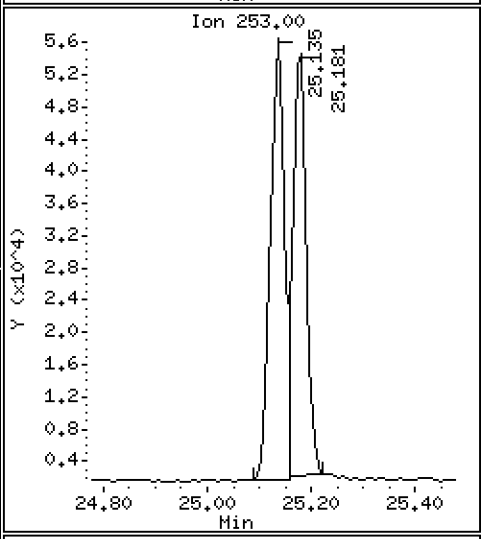
Column phase: ZB-5msi Column diameter: 0.25

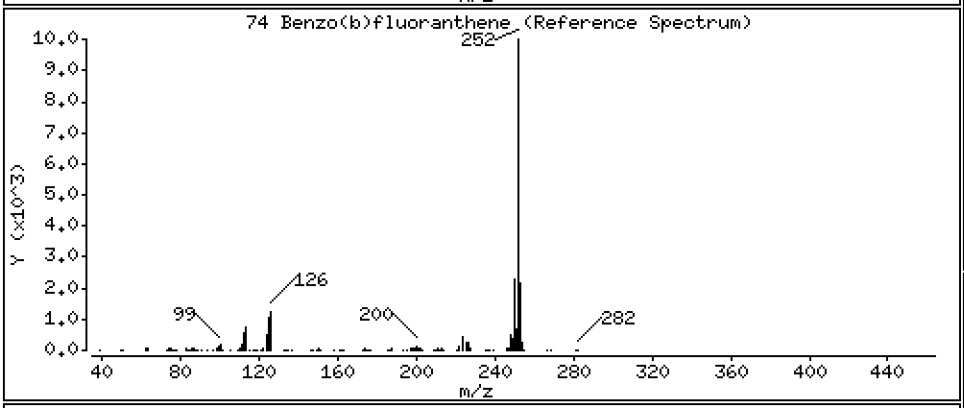
74 Benzo(b)fluoranthene Concentration: 4.921 ug/mL

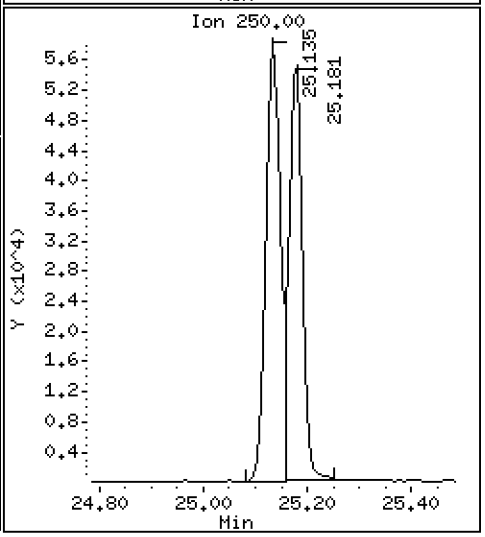


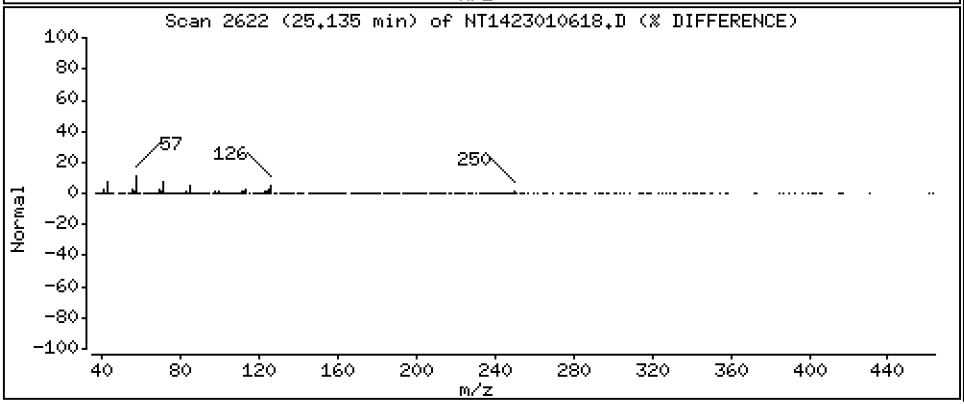












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

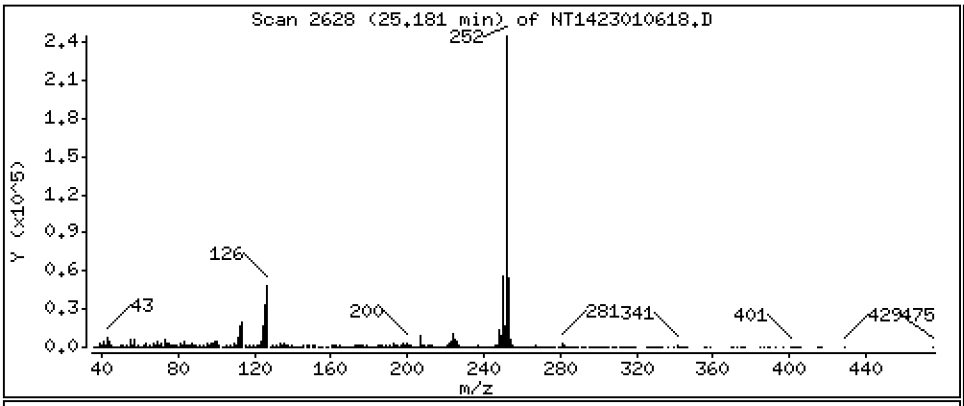
Operator: VTS

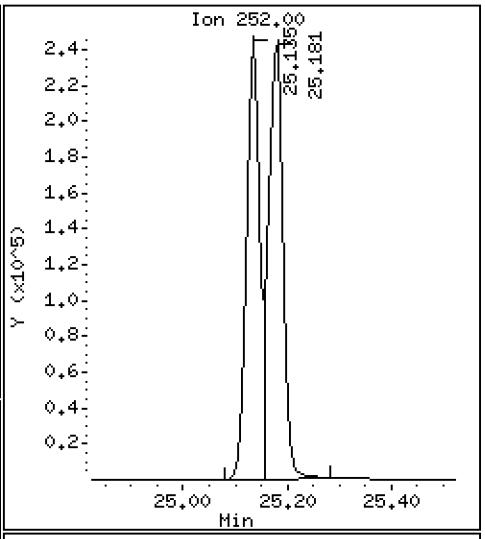
Column phase: ZB-5msi

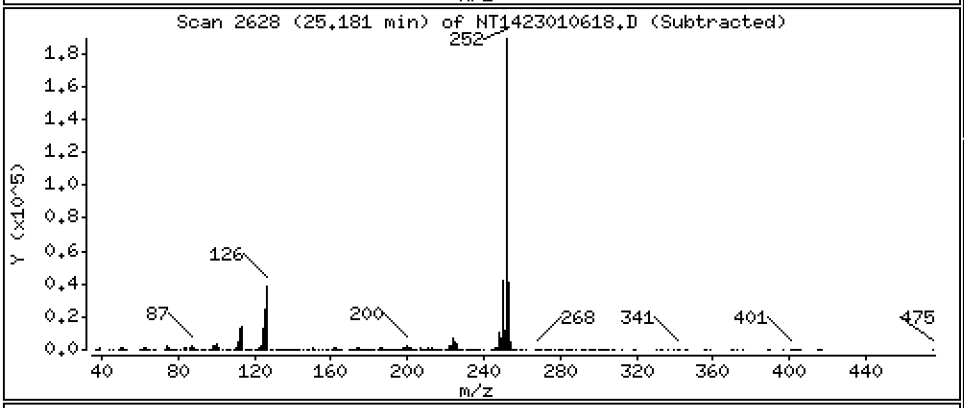
Column diameter: 0.25

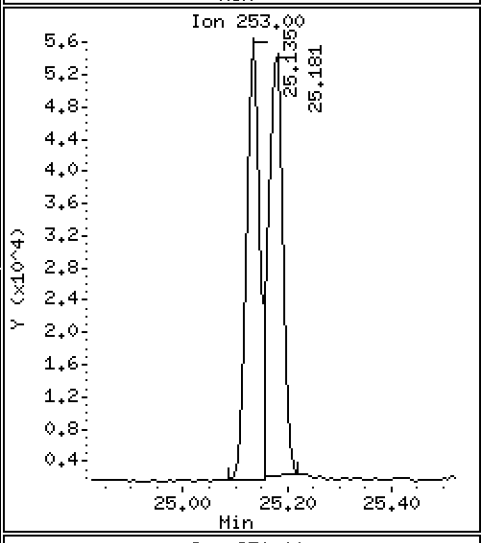
75 Benzo(k)fluoranthene

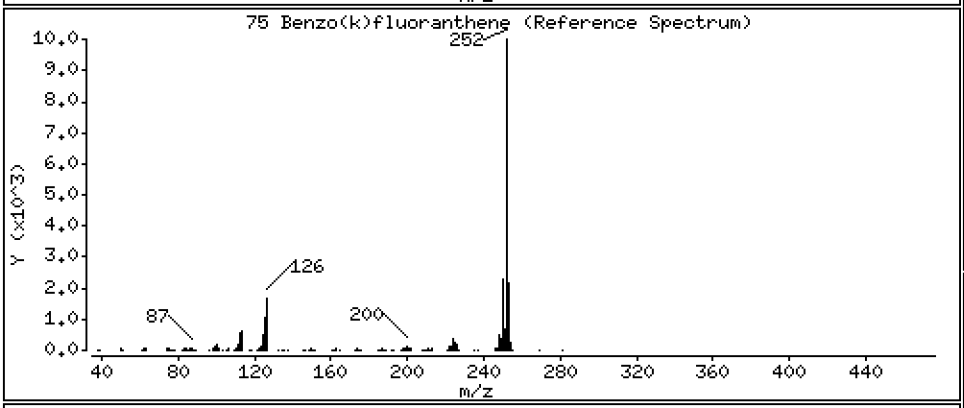
Concentration: 4.667 ug/mL

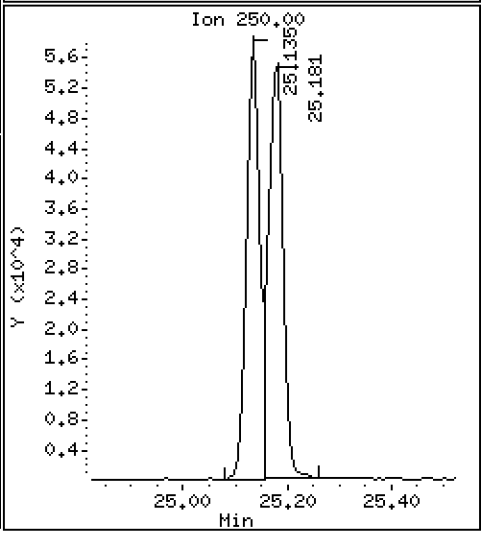


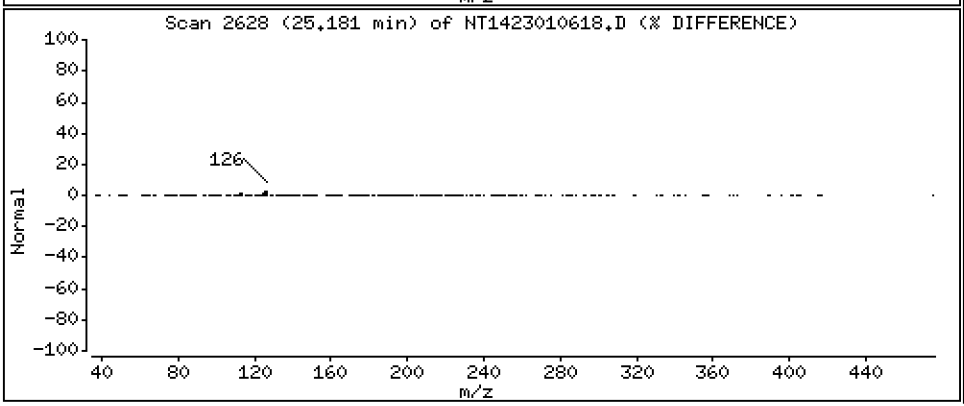












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010618.D

Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

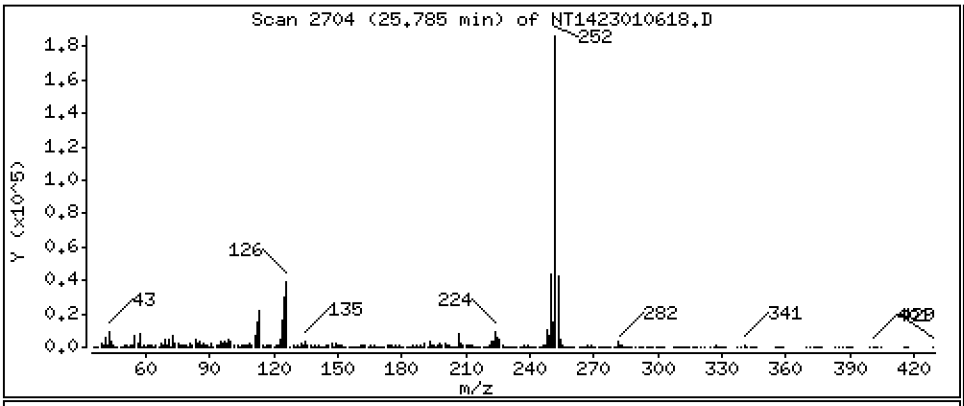
Operator: VTS

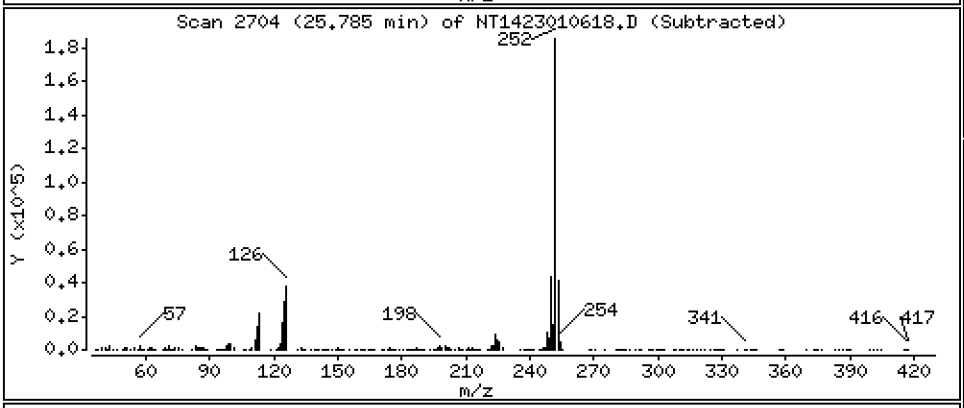
Column phase: ZB-5msi

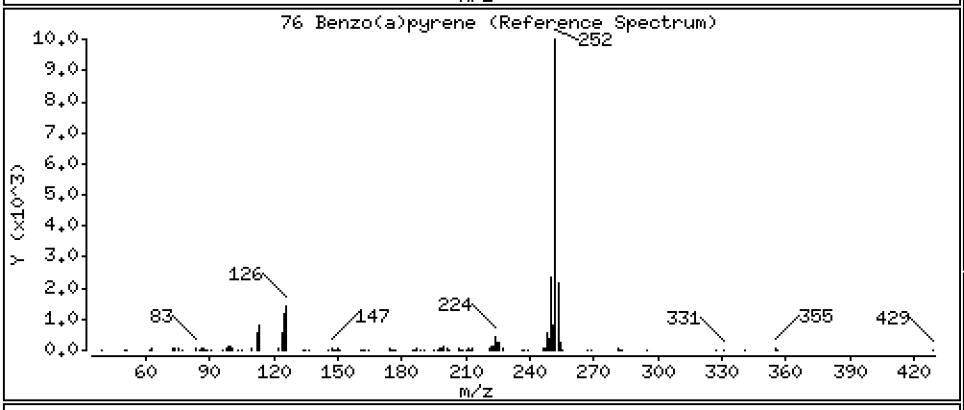
Column diameter: 0.25

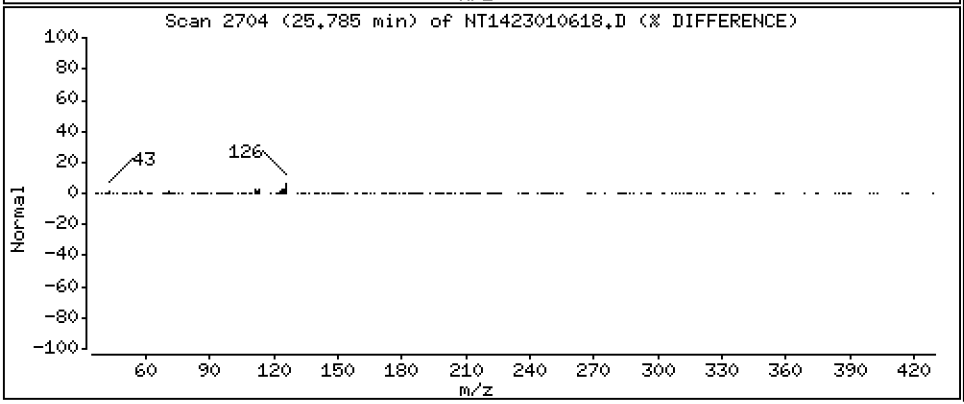
76 Benzo(a)pyrene

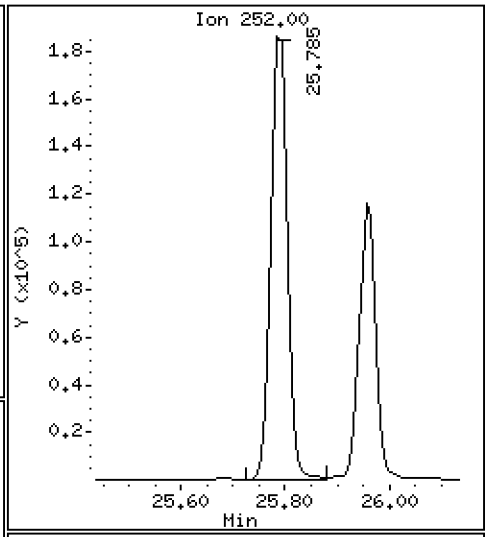
Concentration: 4.927 ug/mL

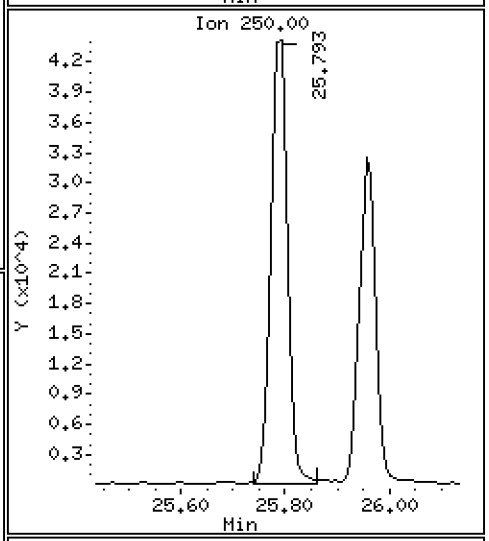


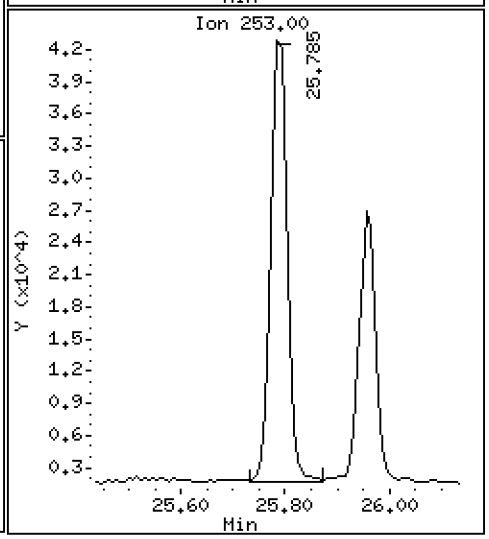












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

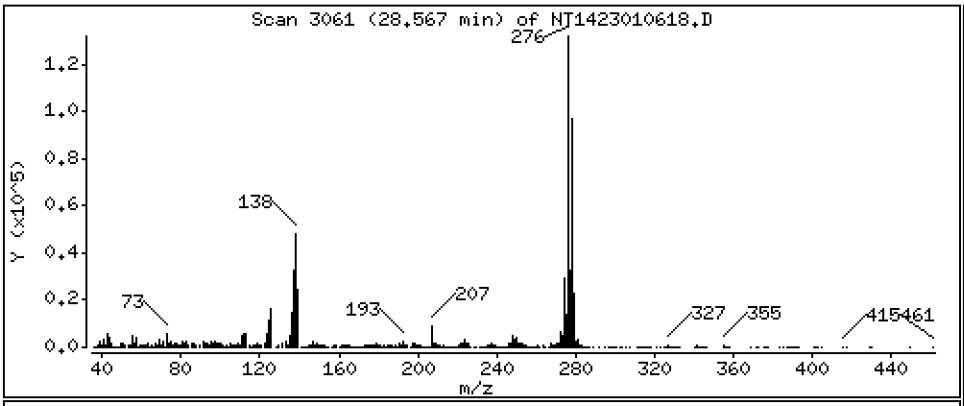
Operator: VTS

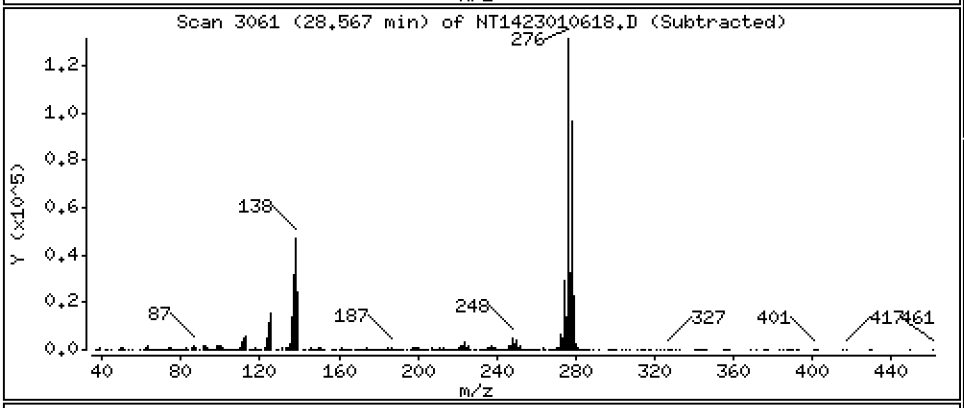
Column phase: ZB-5msi

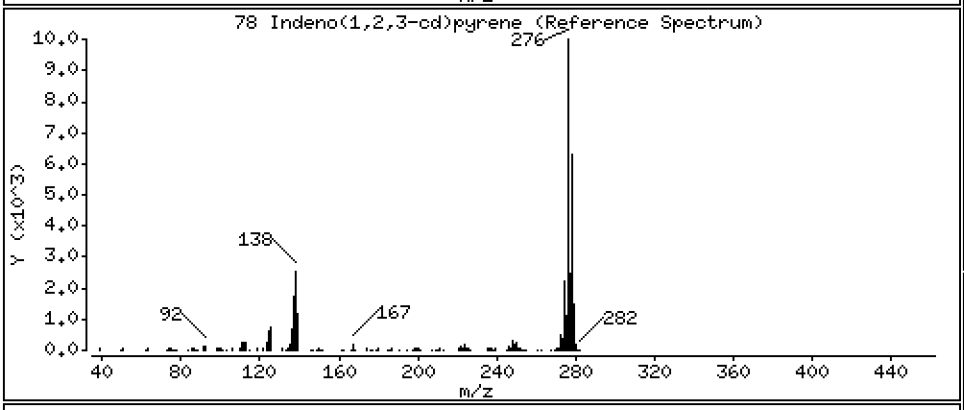
Column diameter: 0.25

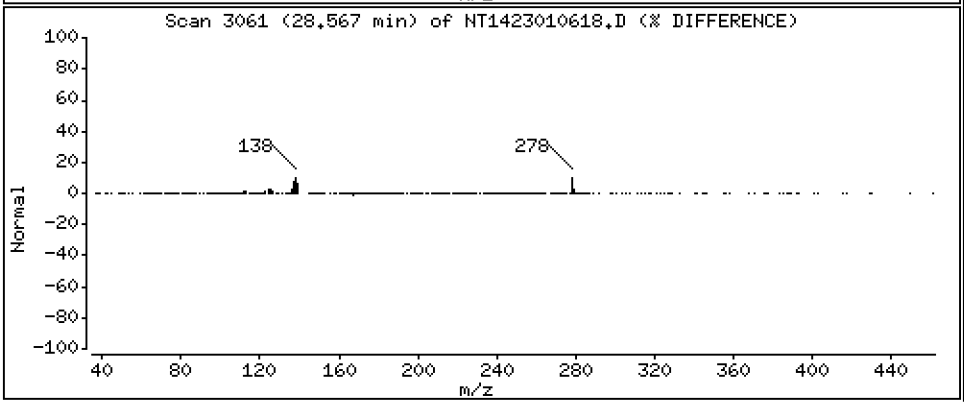
78 Indeno(1,2,3-cd)pyrene

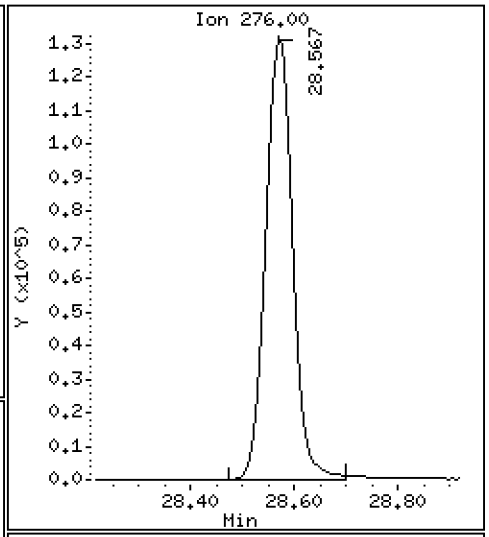
Concentration: 5.121 ug/mL

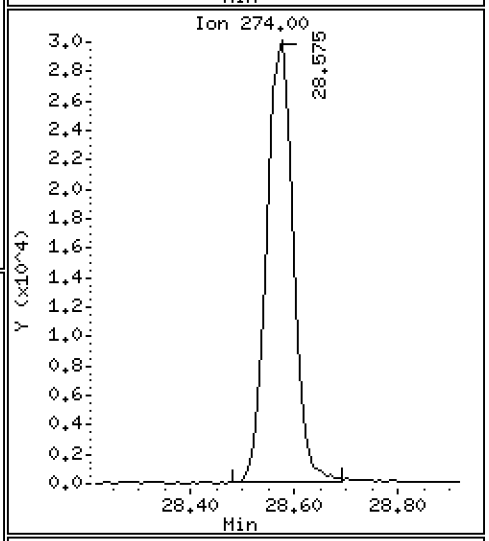


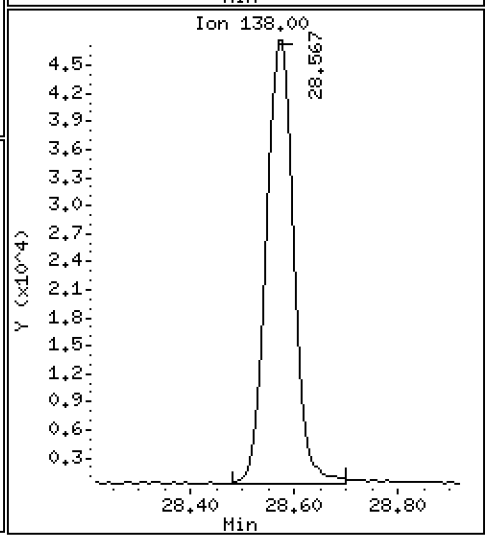












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

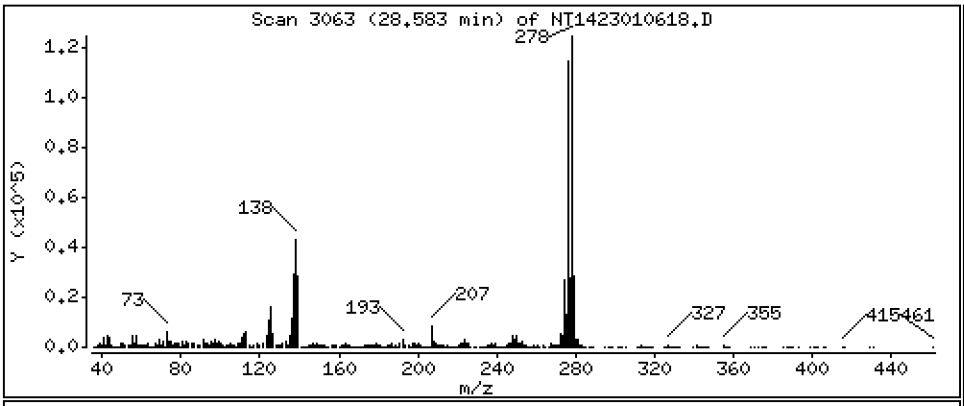
Operator: VTS

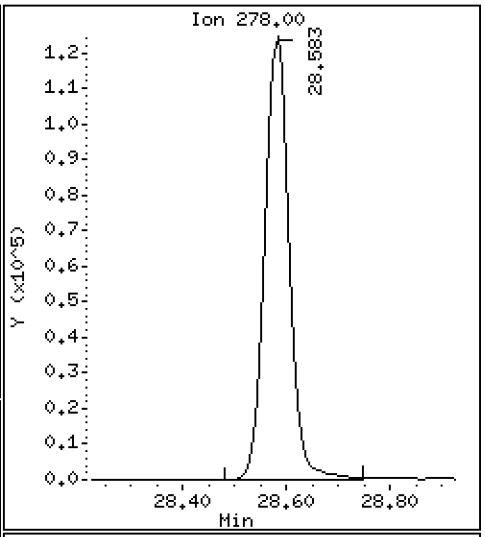
Column phase: ZB-5msi

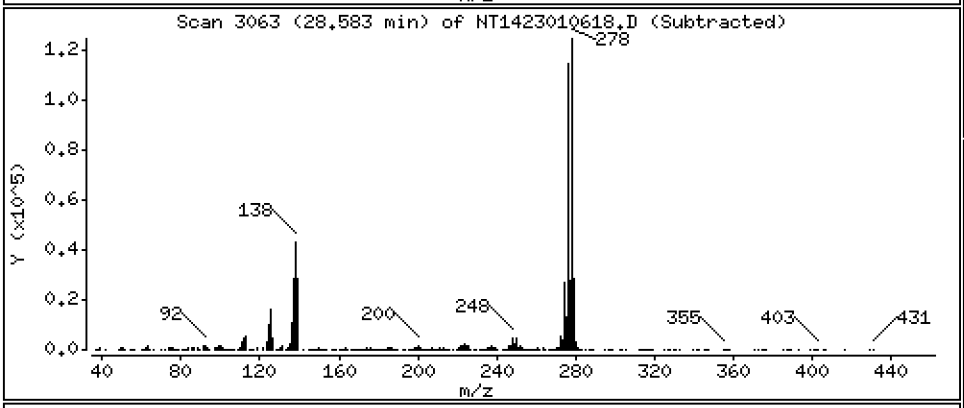
Column diameter: 0.25

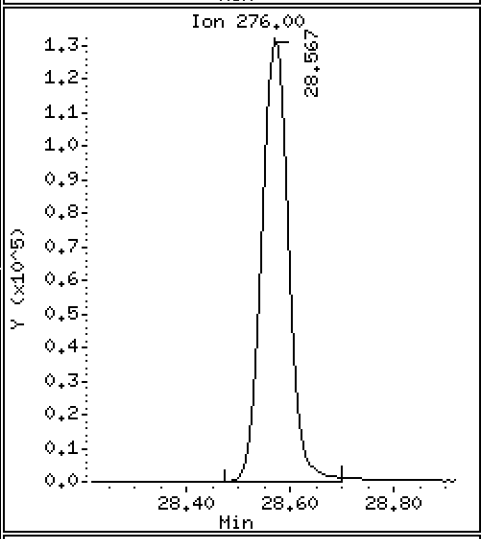
79 Dibenzo(a,h)anthracene

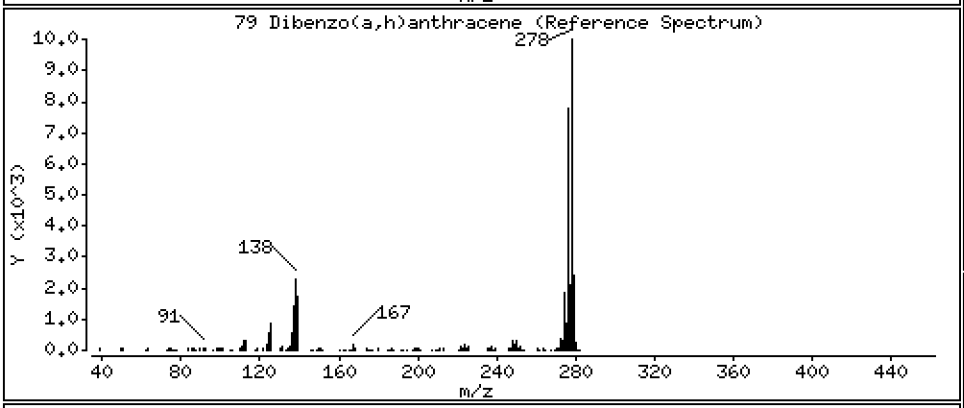
Concentration: 5.158 ug/mL

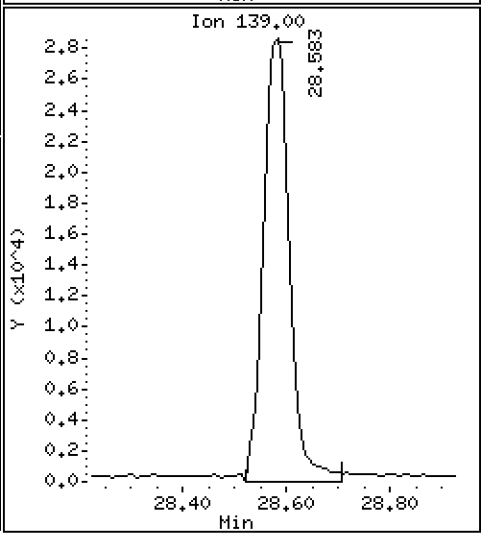


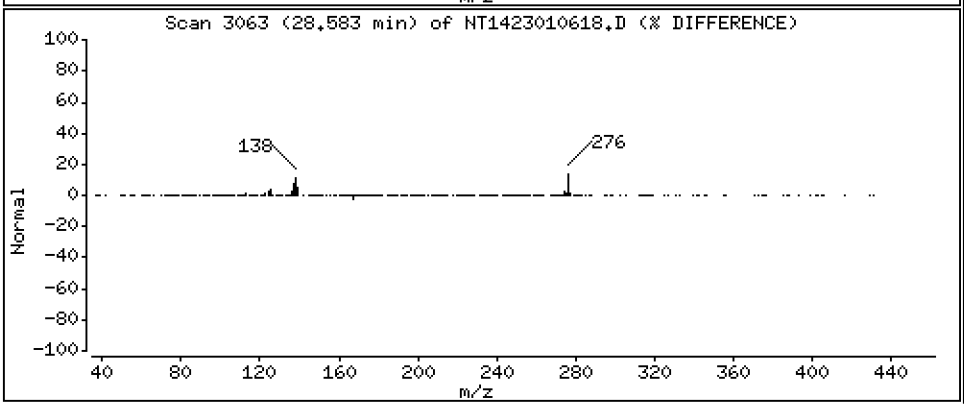












Date : 06-JAN-2023 21:51

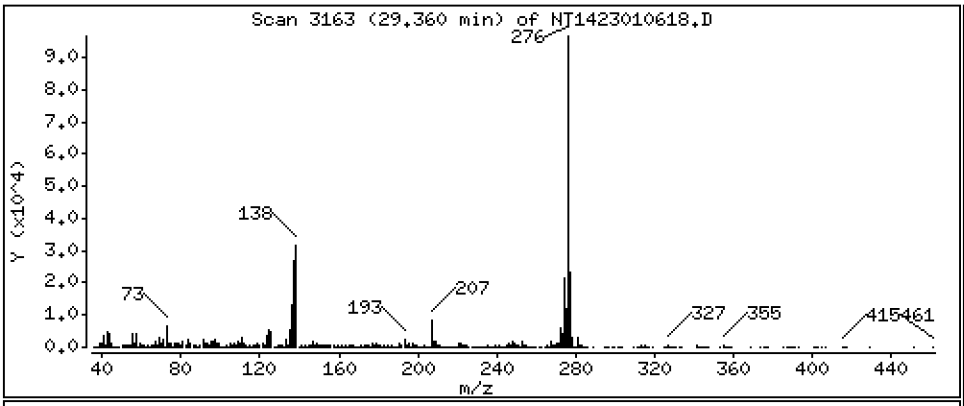
Client ID: Instrument: nt14.i

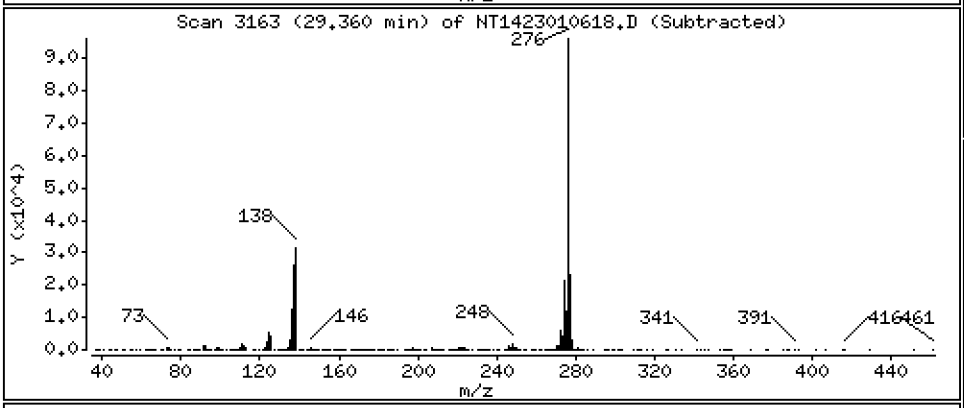
Sample Info: BKL0585-MSD1

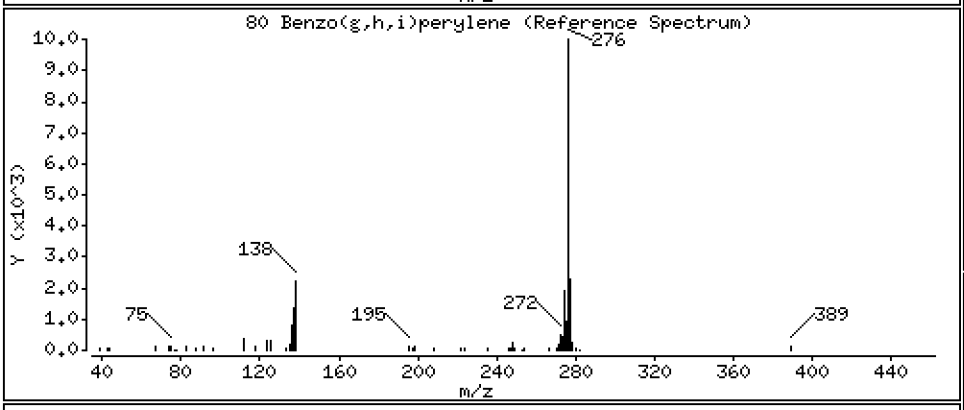
Operator: VTS

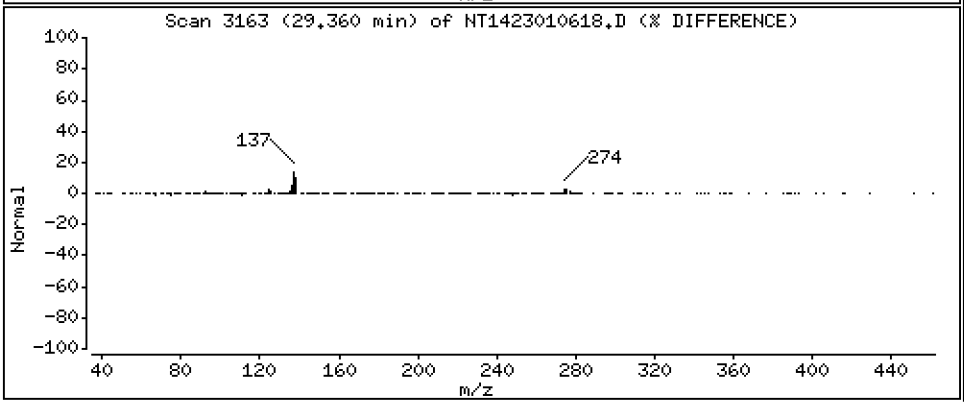
Column phase: ZB-5msi Column diameter: 0.25

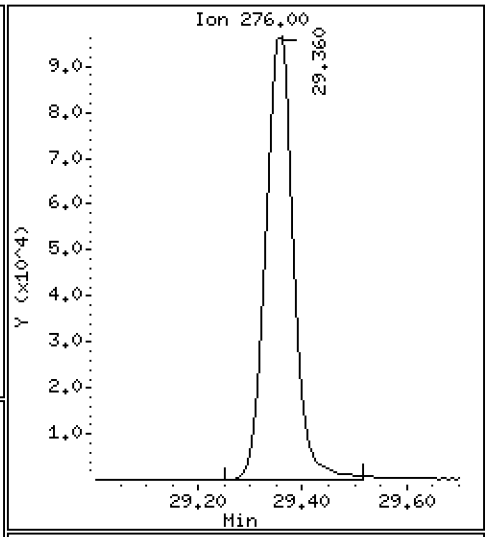
80 Benzo(g,h,i)perylene Concentration: 4.640 ug/mL

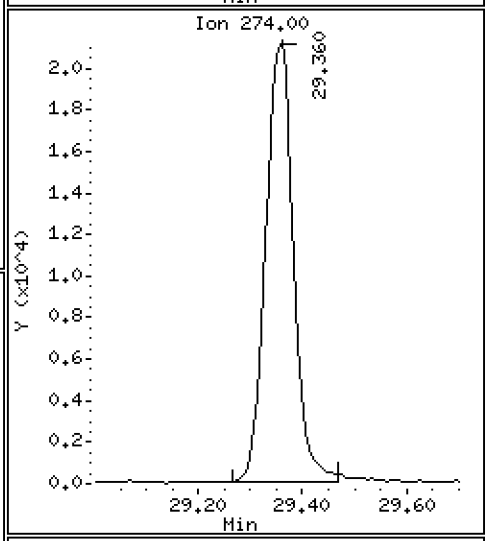


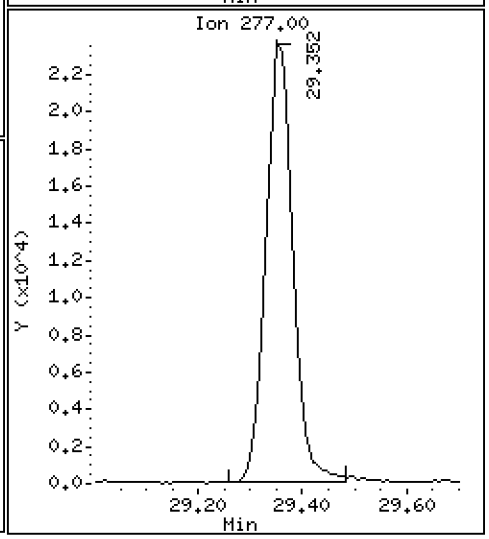












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

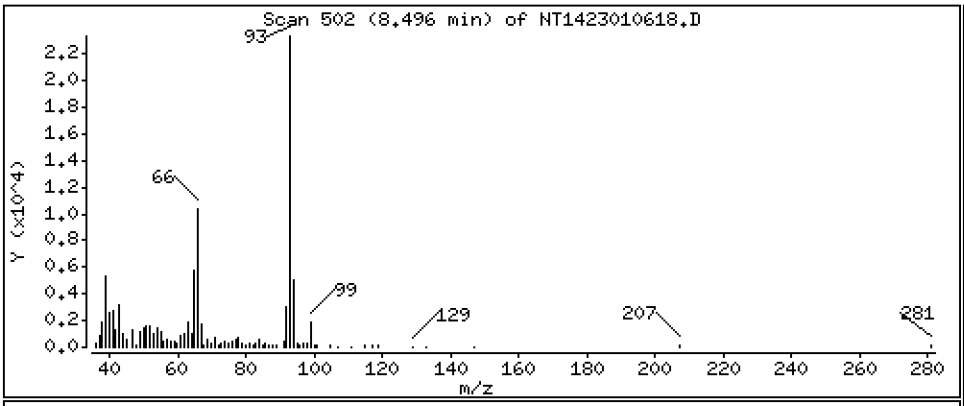
Operator: VTS

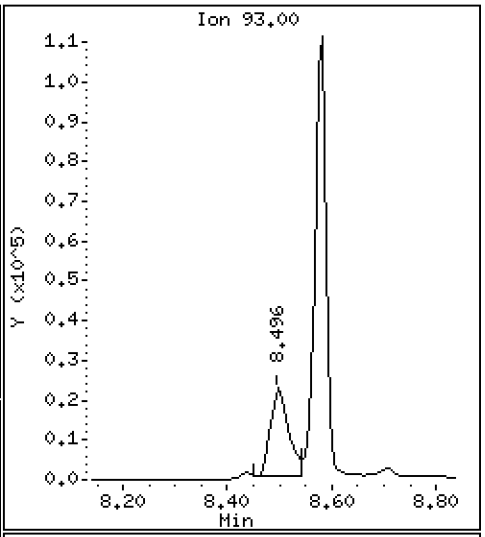
Column phase: ZB-5msi

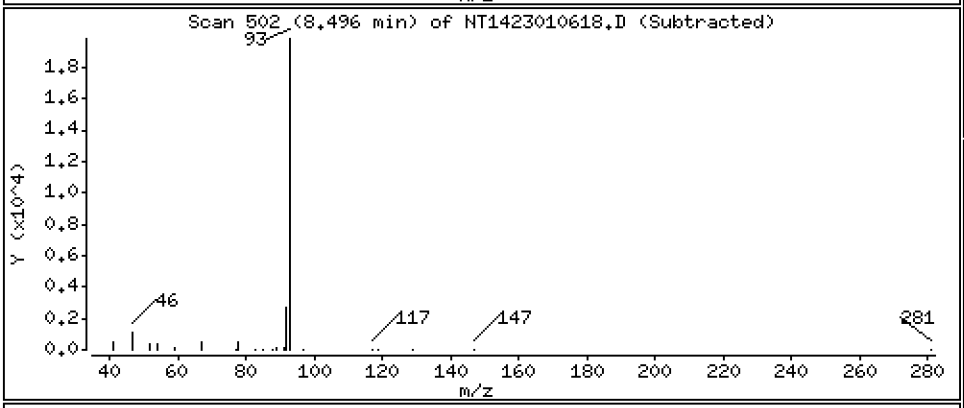
Column diameter: 0.25

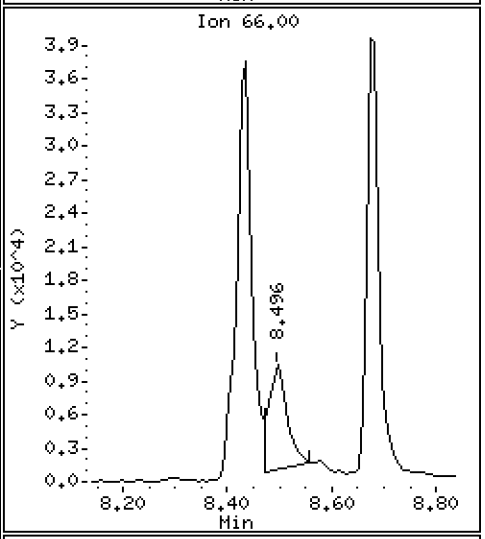
91 Aniline

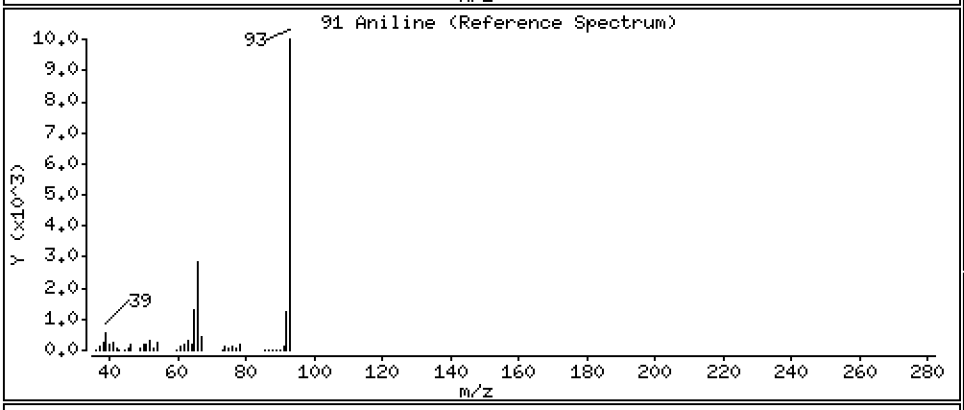
Concentration: 1.071 ug/mL

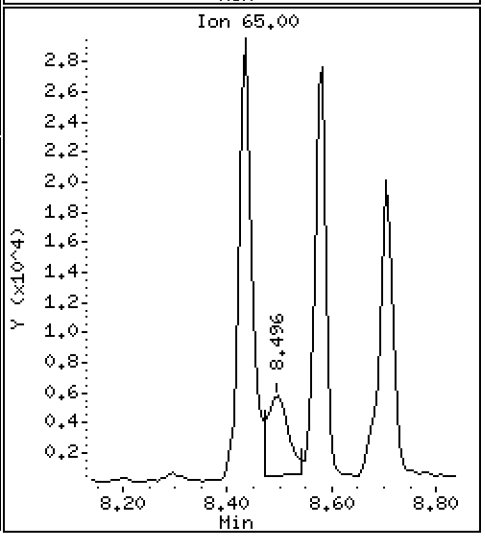


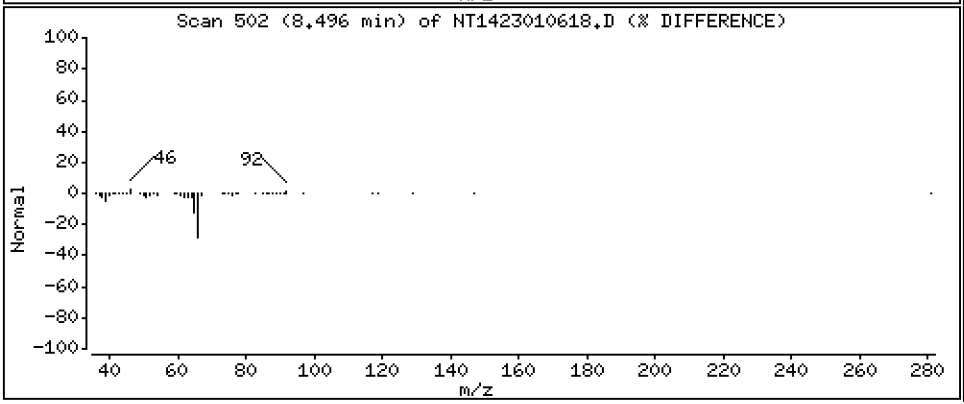












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

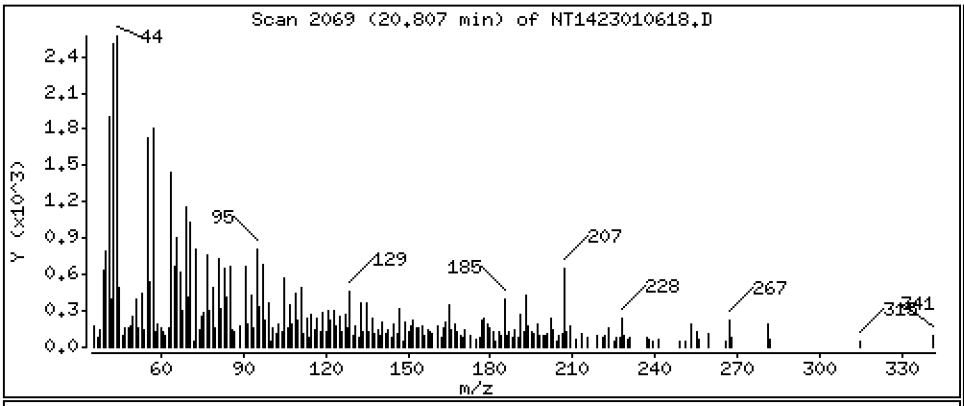
Operator: VTS

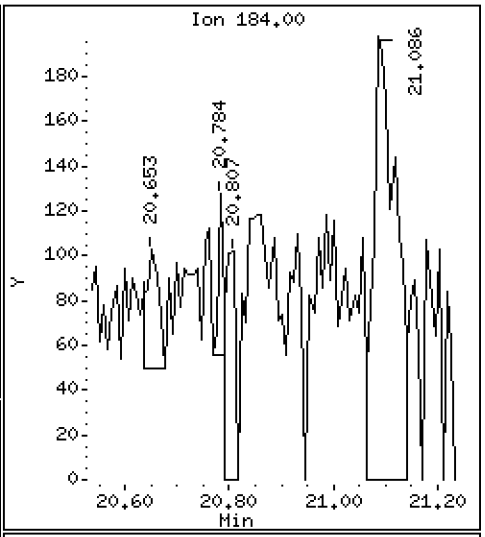
Column phase: ZB-5msi

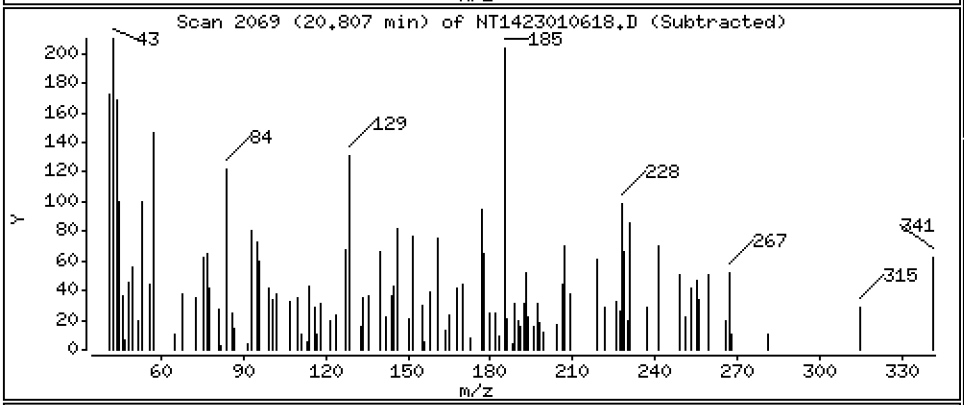
Column diameter: 0.25

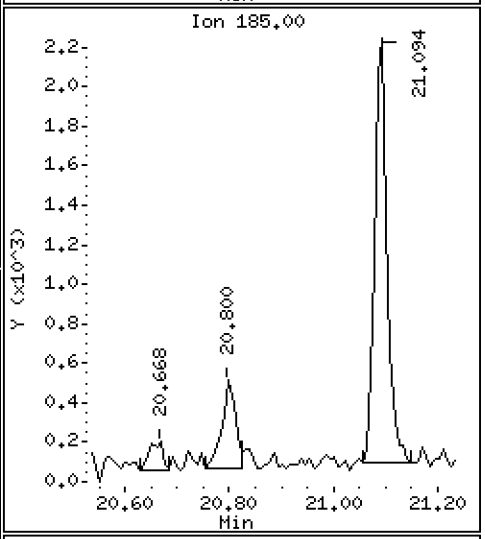
93 Benzidine

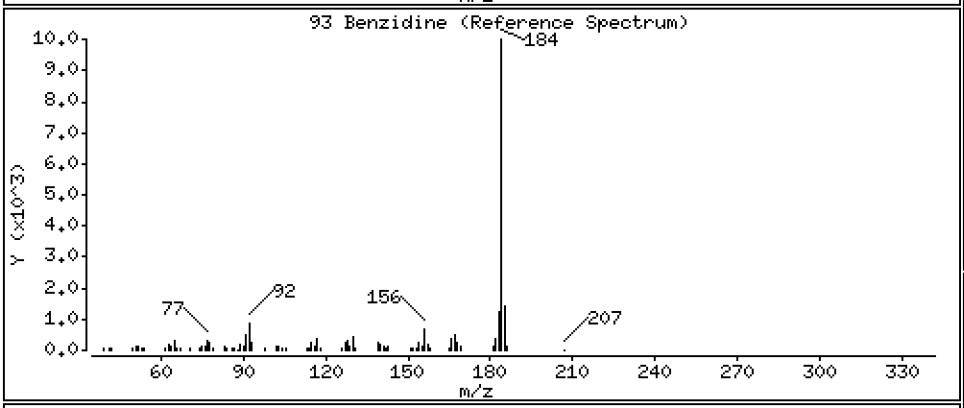
Concentration: 0.003873 ug/mL

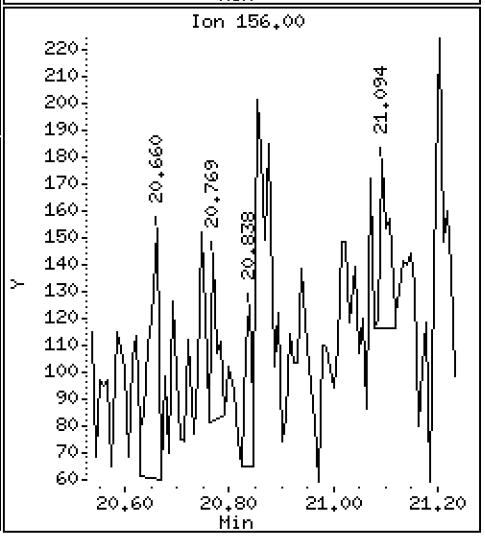


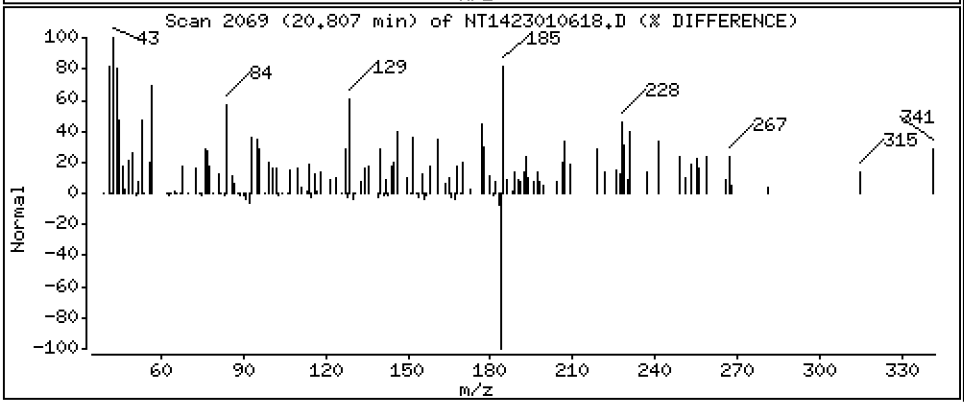












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

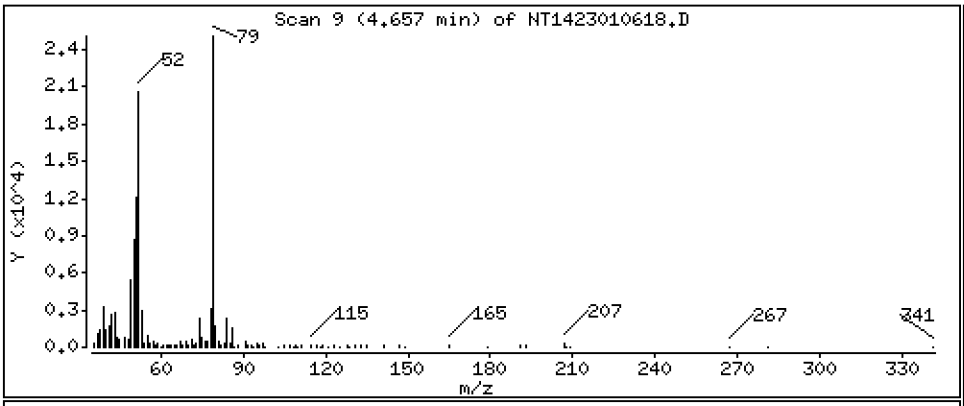
Operator: VTS

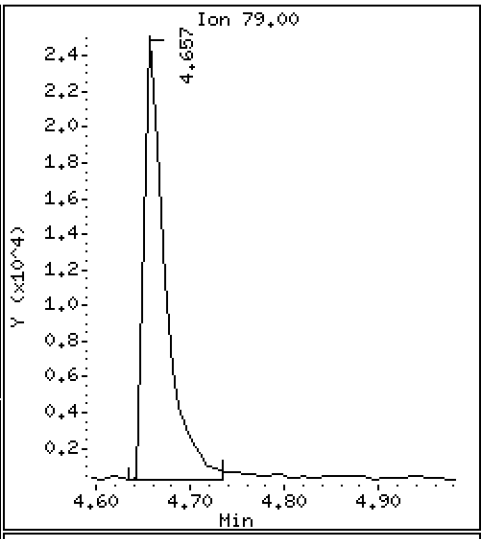
Column phase: ZB-5msi

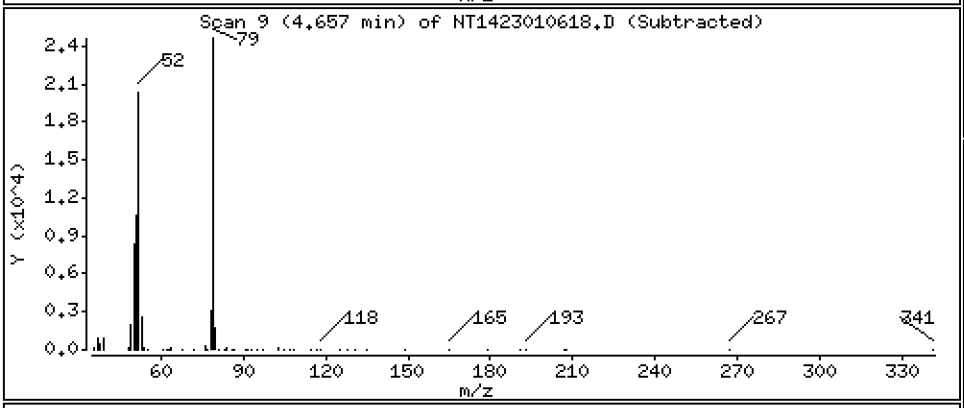
Column diameter: 0.25

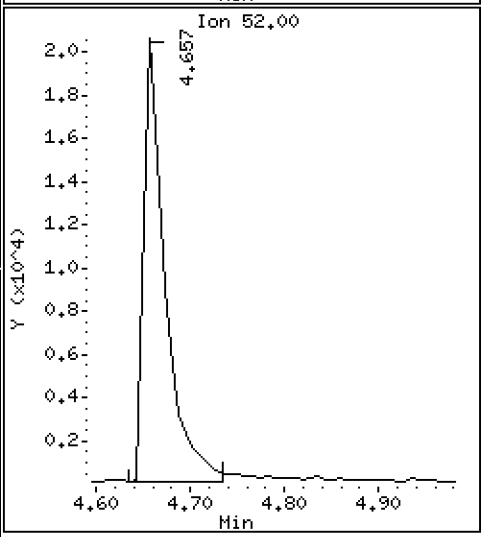
103 Pyridine

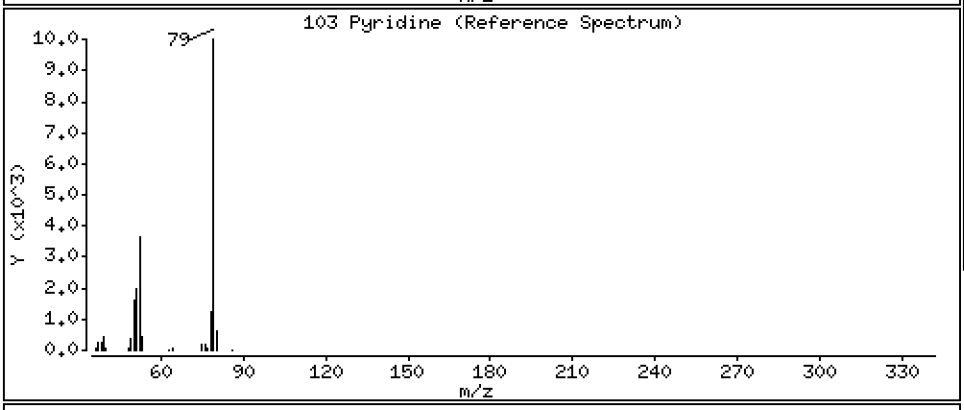
Concentration: 0.4790 ug/mL

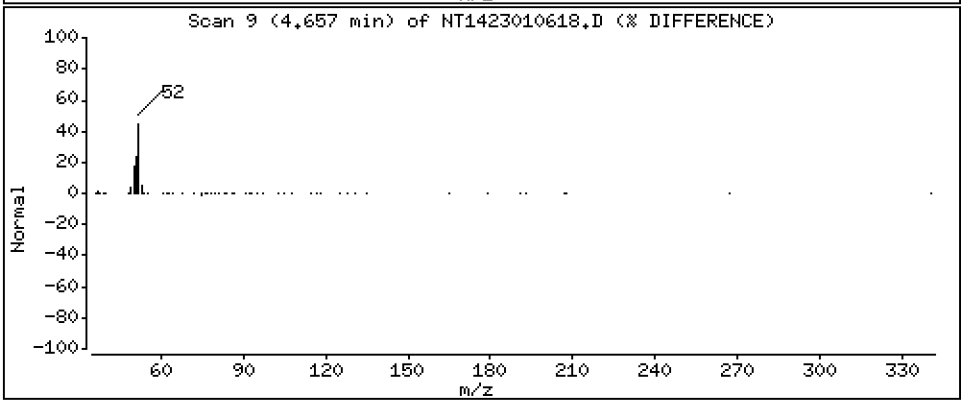












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

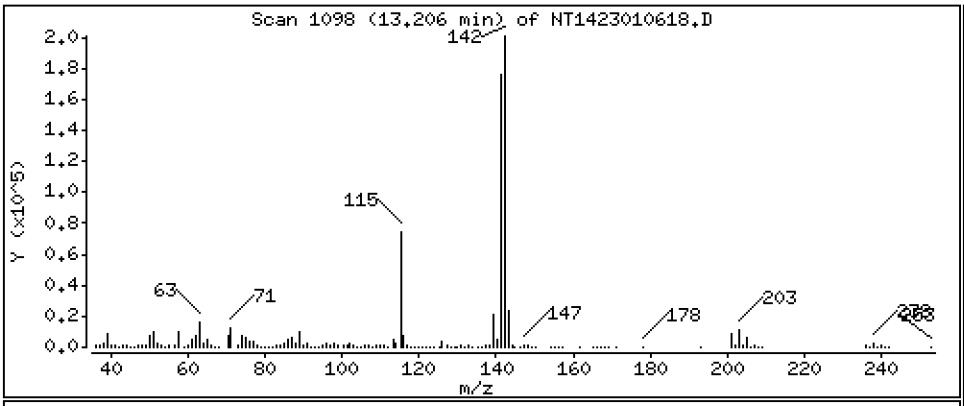
Operator: VTS

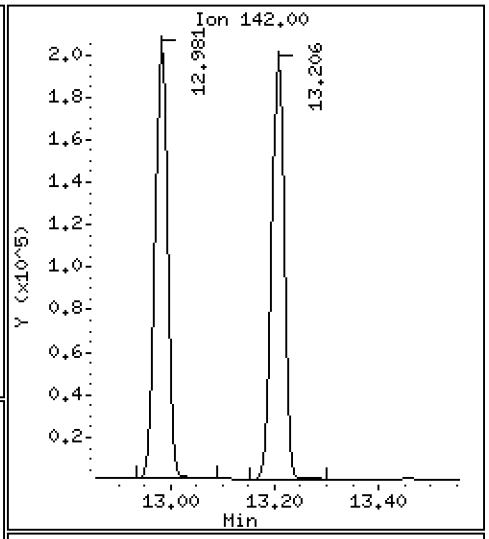
Column phase: ZB-5msi

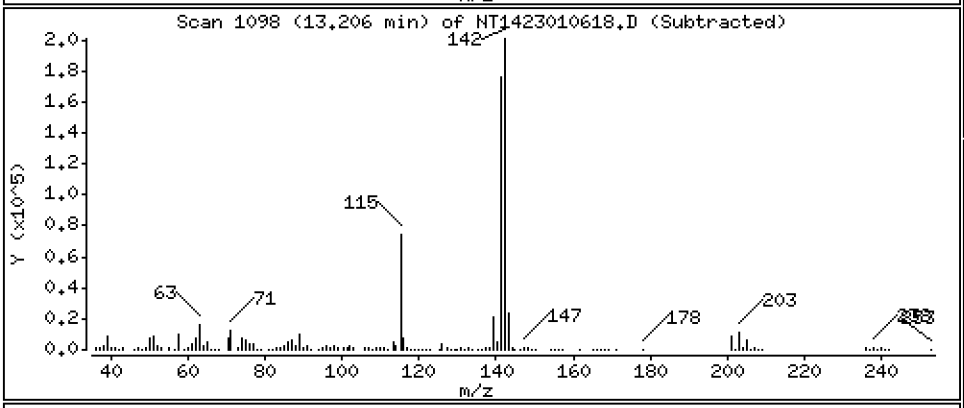
Column diameter: 0.25

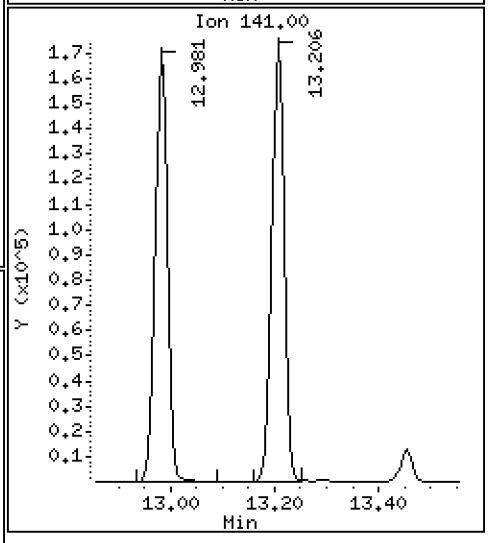
105 1-methylnaphthalene

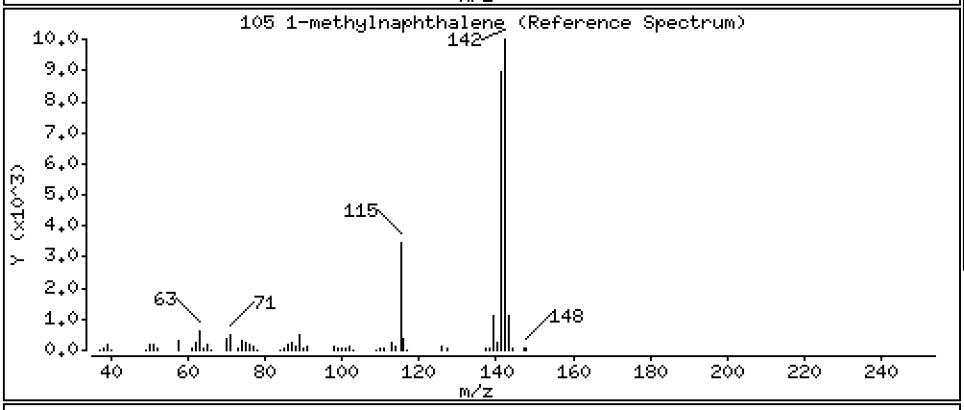
Concentration: 4.212 ug/mL

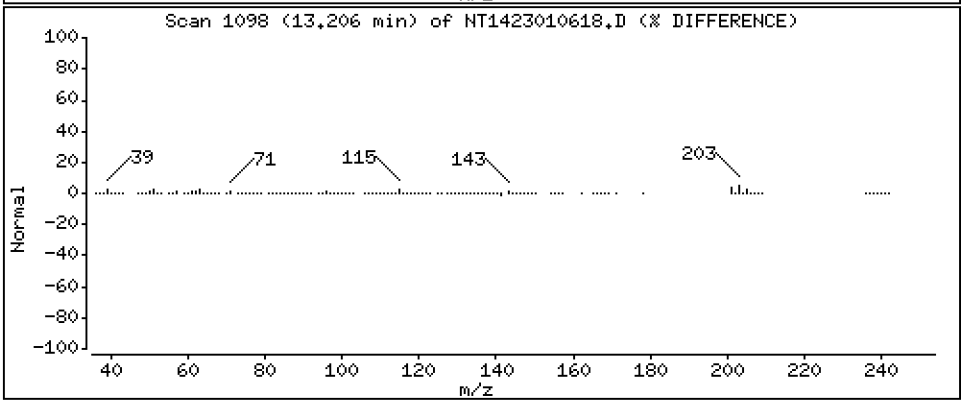












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

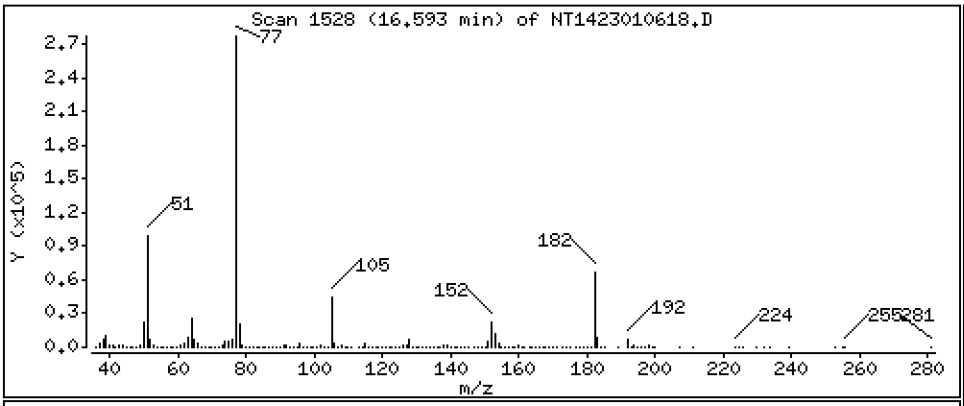
Operator: VTS

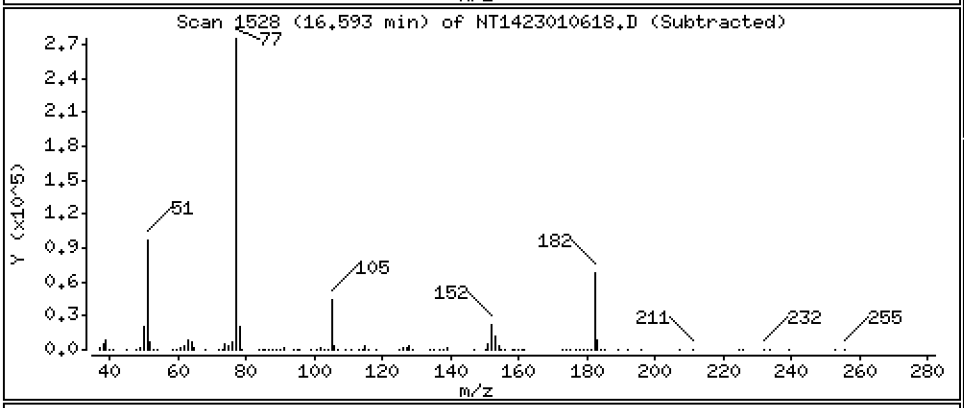
Column phase: ZB-5msi

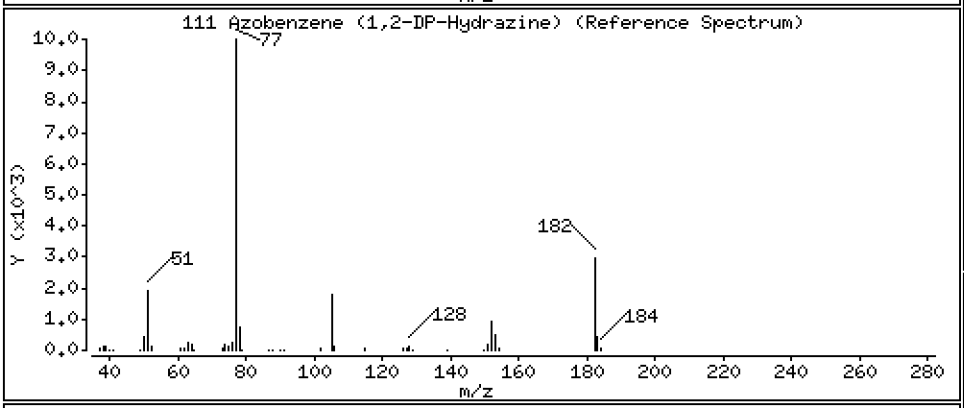
Column diameter: 0.25

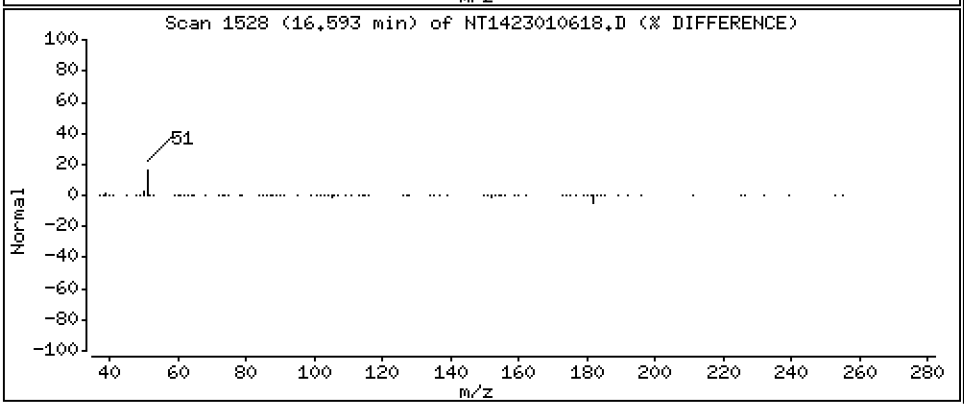
111 Azobenzene (1,2-DP-Hydrazine)

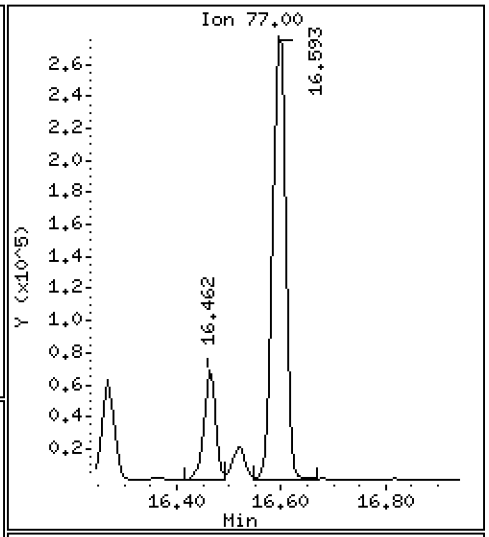
Concentration: 5.575 ug/mL

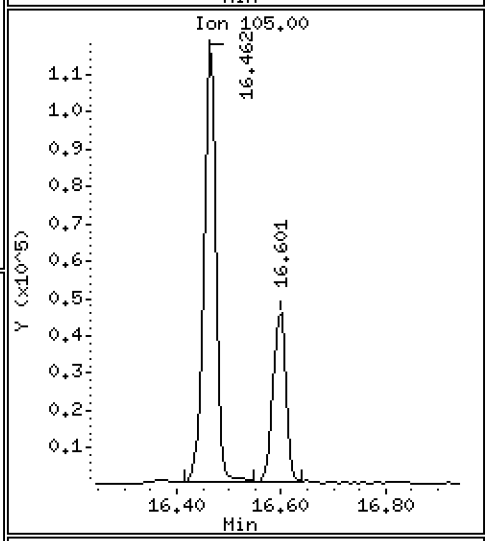


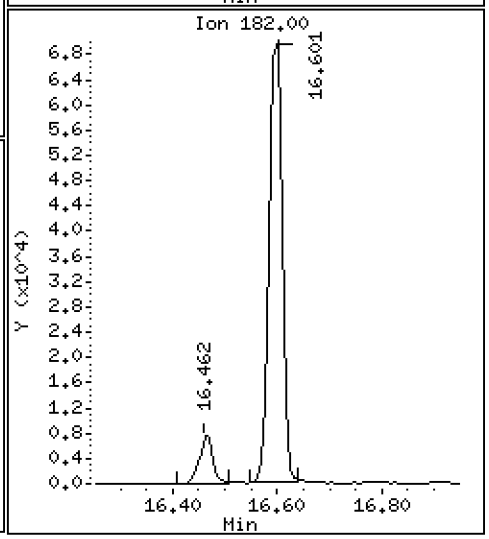












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

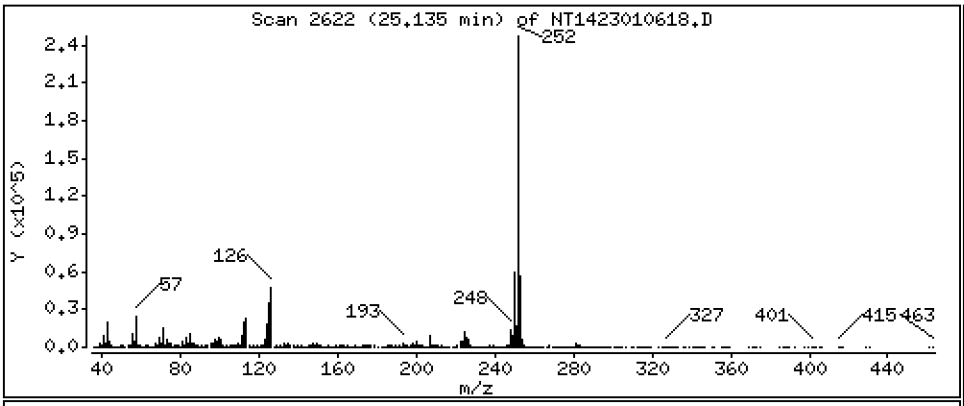
Operator: VTS

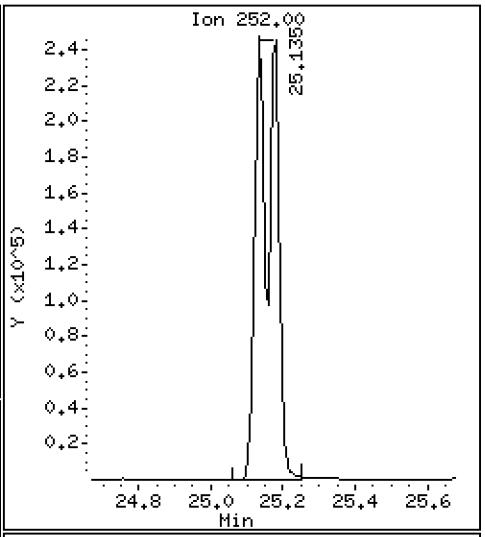
Column phase: ZB-5msi

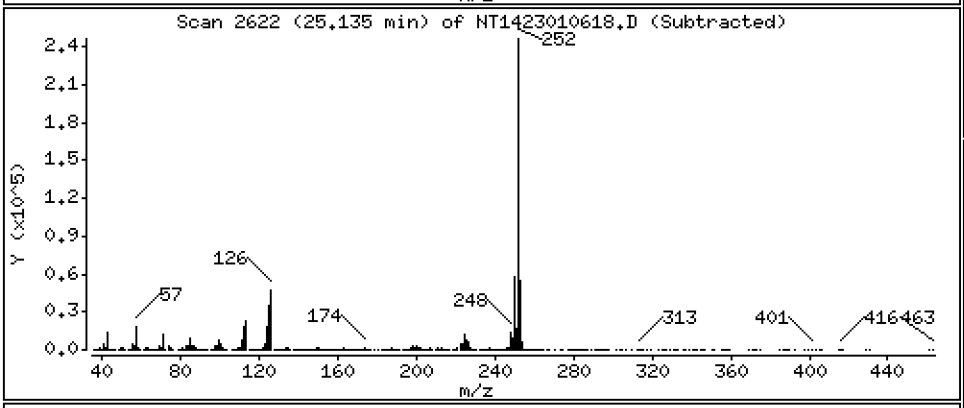
Column diameter: 0.25

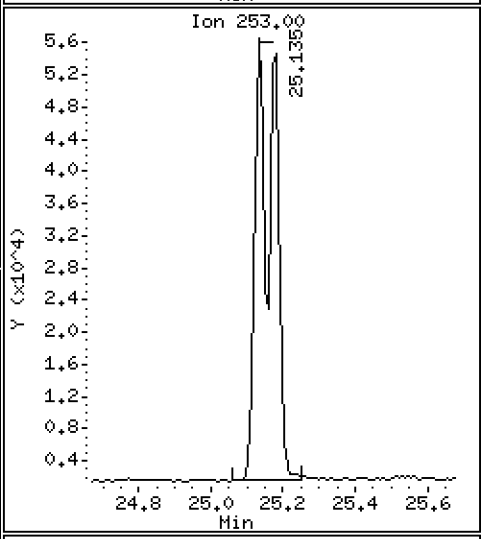
187 Total Benzofluoranthenes

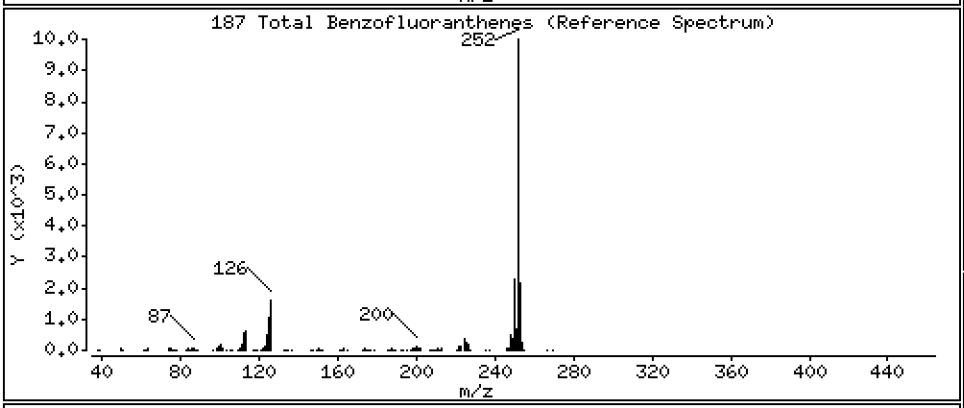
Concentration: 9.563 ug/mL

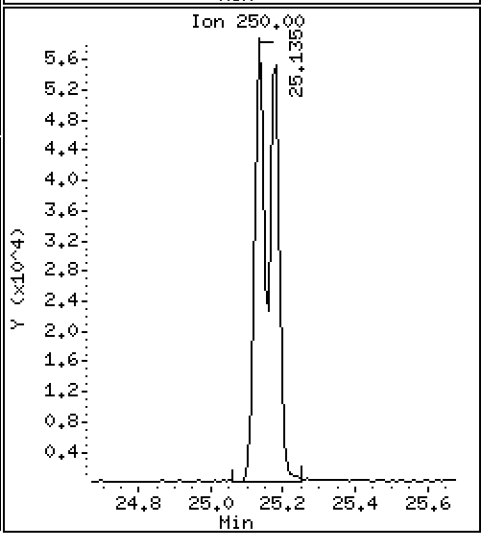


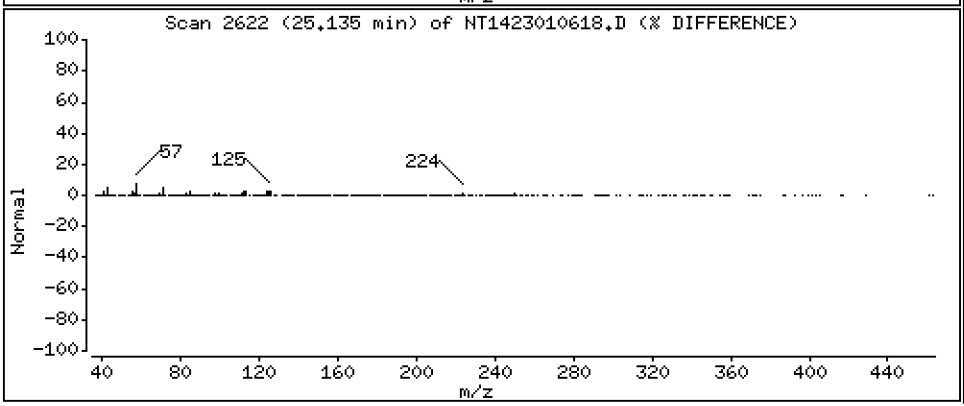












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Date : 06-JAN-2023 21:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-MSD1

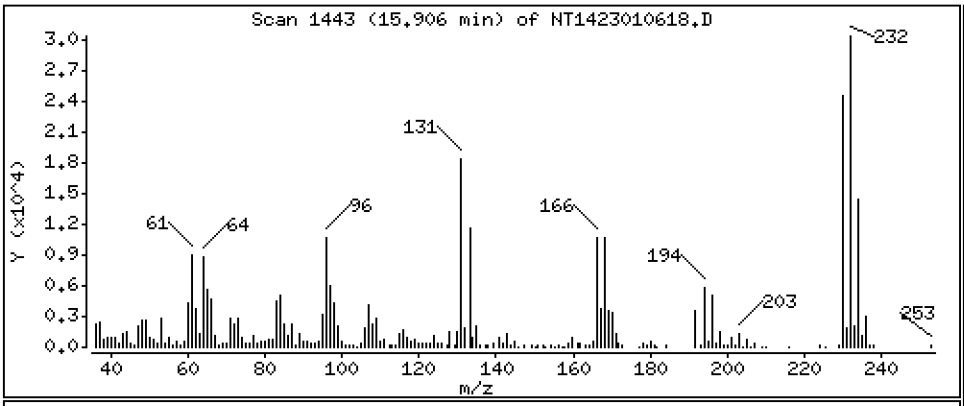
Operator: VTS

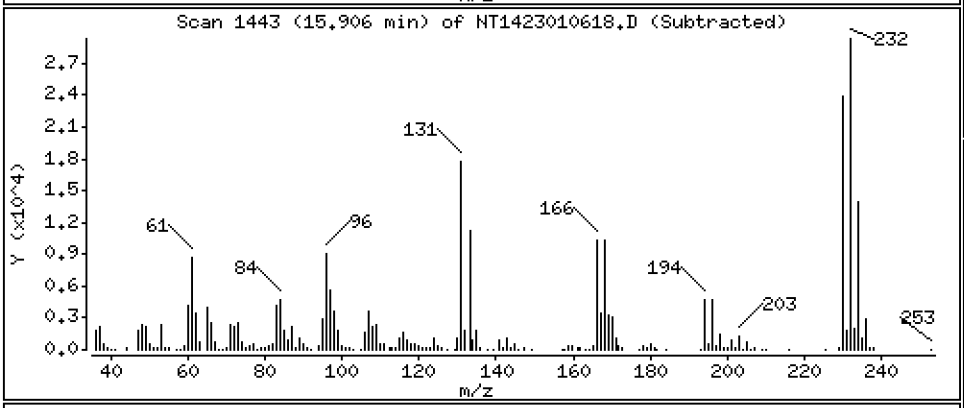
Column phase: ZB-5msi

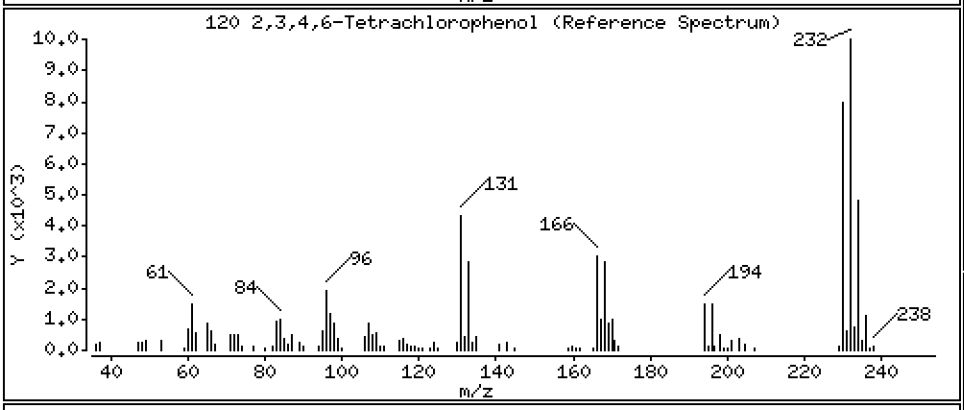
Column diameter: 0.25

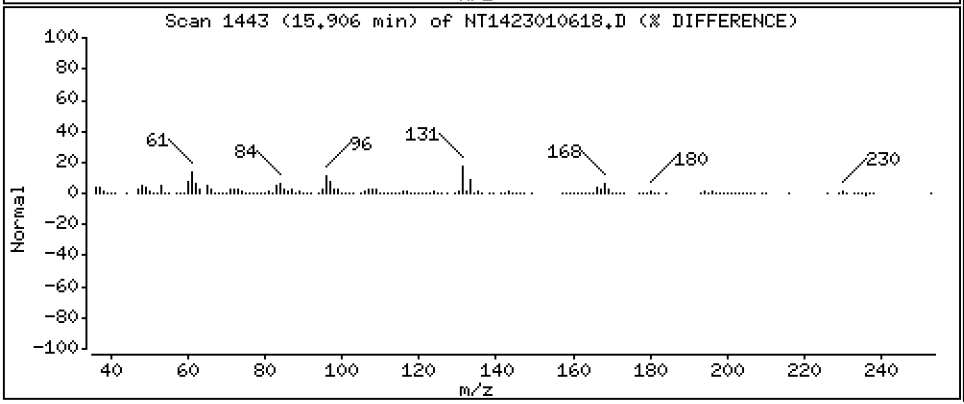
120 2,3,4,6-Tetrachlorophenol

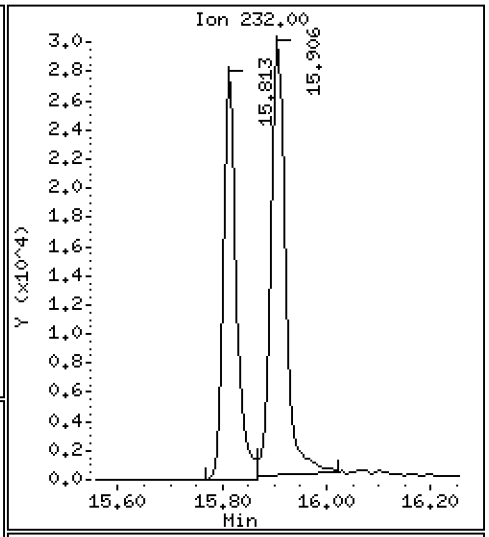
Concentration: 3.467 ug/mL

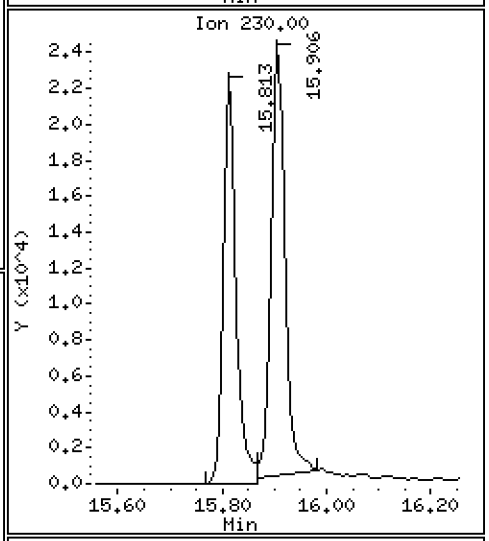


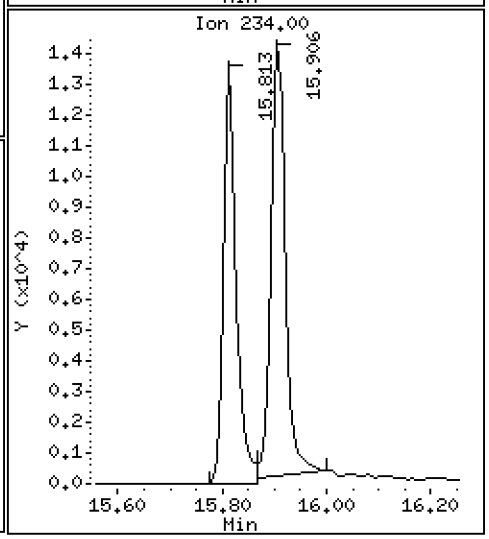












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010618.D
Lab Smp Id: BKL0585-MSD1
Inj Date : 06-JAN-2023 21:51 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-MSD1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 11-Jan-2023 14:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 18
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.819	6.811	(0.755)	205949	5.60148	5.601
$	2 Phenol-d5	99	8.411	8.403	(0.931)	277021	6.09679	6.097
	3 Phenol	94	8.434	8.426	(0.933)	194734	3.77175	3.772
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.961)	237007	6.21085	6.211
	4 Bis(2-Chloroethyl)ether	93	8.581	8.580	(0.949)	166341	4.67699	4.677
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	153246	3.65663	3.657
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	171330	3.85530	3.855
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	114763	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	168373	3.99926	3.999
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	102322	3.92315	3.923
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	166184	4.02488	4.025
	11 Benzyl alcohol	108	9.495	9.308	(1.051)	15828	0.68864	0.6886(MH)
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	55810	4.66221	4.662
	13 2-Methylphenol	108	9.549	9.541	(1.057)	87764	2.33935	2.339
	17 Hexachloroethane	117	10.023	10.022	(1.109)	63479	4.09957	4.100
	16 N-Nitroso-di-n-propylamine	70	9.868	9.867	(1.092)	112763	4.93409	4.934
	15 4-Methylphenol	108	9.829	9.813	(1.088)	125754	3.17748	3.177
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	172081	4.70875	4.709
	19 Nitrobenzene	77	10.170	10.170	(0.882)	168196	4.63426	4.634
	20 Isophorone	82	10.620	10.620	(0.921)	327810	7.08671	7.087
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	96333	4.19150	4.191
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	94417	2.49255	2.493
	23 Bis(2-Chloroethoxy)methane	93	11.055	11.054	(0.958)	183781	5.10719	5.107
	24 Benzoic acid	105	11.062	11.062	(0.959)	380266	15.9088	15.91
	25 2,4-Dichlorophenol	162	11.272	11.263	(0.977)	453905	14.2155	14.22
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	148354	4.29697	4.297
*	27 Naphthalene-d8	136	11.535	11.542	(1.000)	432771	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	462099	4.33883	4.339
	29 4-Chloroaniline	127	11.712	11.704	(1.015)	164583	3.74720	3.747
	30 Hexachlorobutadiene	225	11.944	11.951	(1.035)	87042	5.08126	5.081
	31 4-Chloro-3-methylphenol	107	12.695	12.679	(1.101)	474009	15.7311	15.73
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	323221	4.13733	4.137
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	128199	7.62282	7.623

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	282325	15.2037	15.20
35	2,4,5-Trichlorophenol	196	13.693	13.685	(0.903)	330718	15.4313	15.43
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	338362	4.52340	4.523
37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	286780	4.50659	4.507
38	2-Nitroaniline	65	14.235	14.234	(0.938)	345618	20.6583	20.66
39	Dimethylphthalate	163	14.676	14.668	(0.967)	361670	5.76438	5.764
40	Acenaphthylene	152	14.854	14.853	(0.979)	465074	4.79307	4.793
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	263205	18.5885	18.59
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	222480	4.00000	
43	3-Nitroaniline	138	15.094	15.093	(0.995)	189130	10.9896	10.99
44	Acenaphthene	153	15.241	15.232	(1.005)	289878	4.81671	4.817
45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	230257	18.3463	18.35
46	Dibenzofuran	168	15.565	15.565	(1.026)	404862	4.48607	4.486
47	4-Nitrophenol	109	15.442	15.426	(1.018)	151626	17.6533	17.65
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	353471	18.1946	18.19
50	Diethylphthalate	149	16.137	16.137	(1.064)	462548	5.42385	5.424
49	Fluorene	166	16.284	16.276	(1.073)	501503	5.22357	5.224
51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	202709	4.31265	4.313
52	4-Nitroaniline	138	16.369	16.361	(1.079)	277537	12.9901	12.99
53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	446961	26.8587	26.86
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	243147	3.80378	3.804
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	65769	6.10899	6.109
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	113489	4.68866	4.689
57	Hexachlorobenzene	284	17.596	17.595	(0.966)	116142	4.37243	4.372
58	Pentachlorophenol	266	17.952	17.952	(0.986)	100629	8.38302	8.383
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	372517	4.00000	
60	Phenanthrene	178	18.262	18.261	(1.003)	461252	4.74899	4.749
61	Anthracene	178	18.362	18.354	(1.008)	381713	4.11677	4.117
62	Carbazole	167	18.687	18.687	(1.026)	395251	4.40949	4.409
63	Di-n-butylphthalate	149	19.492	19.484	(1.070)	606800	5.71750	5.718
64	Fluoranthene	202	20.660	20.652	(0.888)	483199	5.46686	5.467
65	Pyrene	202	21.085	21.077	(0.906)	489759	5.27012	5.270
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	336576	5.10783	5.108
67	Butylbenzylphthalate	149	22.285	22.285	(0.957)	273161	7.58029	7.580
68	Benzo(a)anthracene	228	23.246	23.245	(0.999)	425243	5.11379	5.114
* 69	Chrysene-d12	240	23.277	23.268	(1.000)	274506	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	126203	4.95767	4.958
71	Chrysene	228	23.315	23.315	(1.002)	421022	5.36006	5.360
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	372469	6.02037	6.020
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	557079	4.00000	
73	Di-n-octylphthalate	149	24.314	24.306	(1.001)	667988	4.99532	4.995
74	Benzo(b)fluoranthene	252	25.134	25.126	(0.970)	476265	4.92094	4.921
75	Benzo(k)fluoranthene	252	25.181	25.173	(0.972)	459722	4.66695	4.667
76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	396392	4.92682	4.927
* 77	Perylene-d12	264	25.901	25.901	(1.000)	307961	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.567	28.567	(1.103)	468336	5.12064	5.121
79	Dibenzo(a,h)anthracene	278	28.583	28.574	(1.104)	400919	5.15845	5.158
80	Benzo(g,h,i)perylene	276	29.359	29.351	(1.134)	355530	4.64026	4.640
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.496	8.487	(0.940)	53844	1.07108	1.071
93	Benzidine	184	20.807	20.884	(0.894)	130	0.00387	0.003873
103	Pyridine	79	4.657	4.633	(0.515)	38538	0.47896	0.4790
105	1-methylnaphthalene	142	13.205	13.205	(1.145)	316147	4.21176	4.212
111	Azobenzene (1,2-DP-Hydrazine)	77	16.593	16.592	(1.094)	460601	5.57499	5.575

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.173	(0.970)	894839	9.56343	9.563
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	55862	3.46723	3.467

QC Flag Legend

M - Compound response manually integrated.
H - Operator selected an alternate compound hit.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010618.D
Lab Smp Id: BKL0585-MSD1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	114763	-14.43
27 Naphthalene-d8	499117	249559	998234	432771	-13.29
42 Acenaphthene-d10	260320	130160	520640	222480	-14.54
59 Phenanthrene-d10	432406	216203	864812	372517	-13.85
69 Chrysene-d12	317887	158944	635774	274506	-13.65
134 Di-n-octylphthala	664061	332031	1328122	557079	-16.11
77 Perylene-d12	313716	156858	627432	307961	-1.83

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	-0.06
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010618.D

Lab ID: BKL0585-MSD1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 21:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.051	1.030	0.0206	Benzyl alcohol

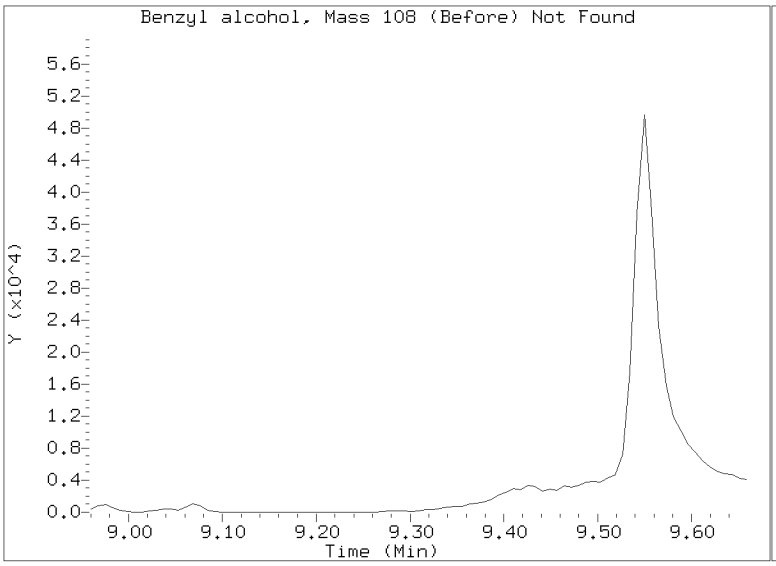
RRT check based on Ccal File: NT1423010602.D

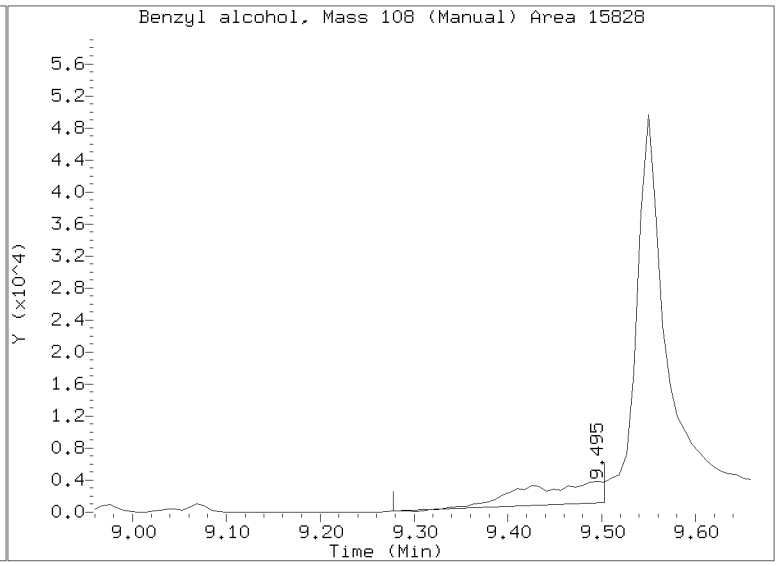
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010618.D
Injection Date: 06-JAN-2023 21:51
Lab ID:BKL0585-MSD1 Client ID:
Report Date: 01/11/2023 14:43





Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0489-SRM1
Batch: BKL0489
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/05/2023 23:39
Standard ID: K000573
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Butylbenzylphthalate	3511.0	4580	94.1	200		130	36 - 164

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010517.D

Date : 05-JAN-2023 23:39

Client ID:

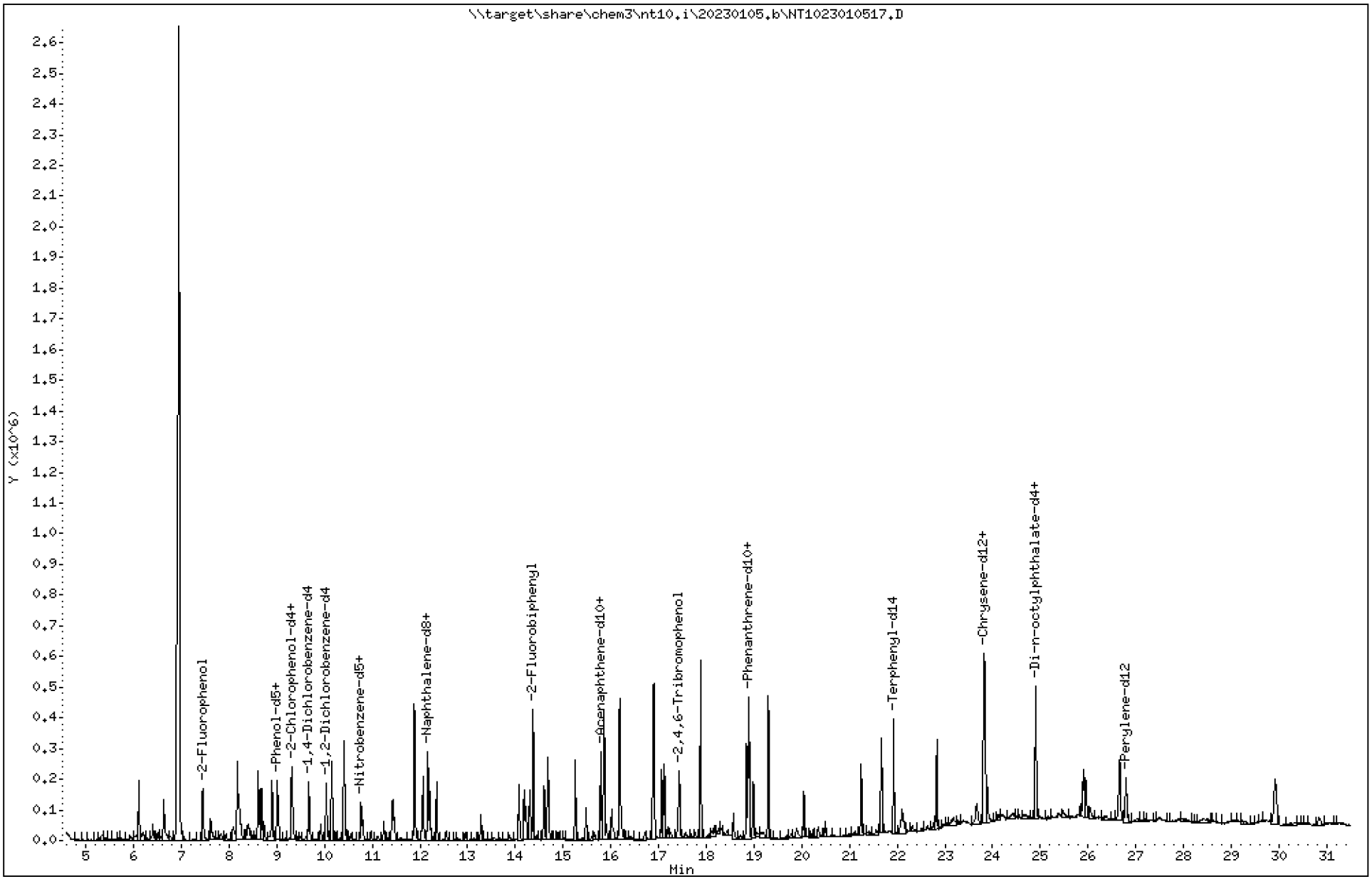
Instrument: nt10.i

Sample Info: BKL0489-SRM1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1273 of 5449

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010517.D

Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

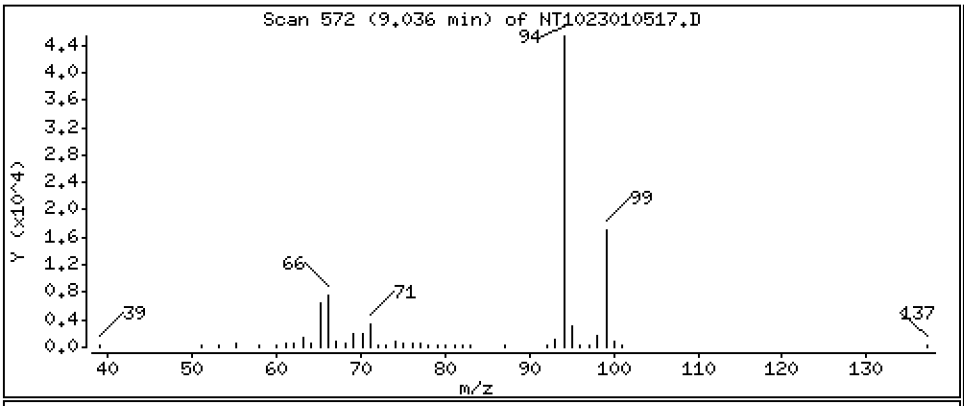
Operator: VTS

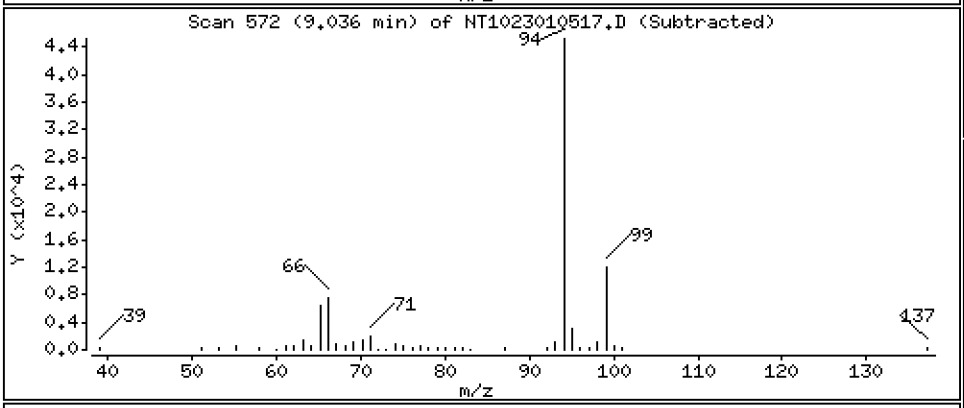
Column phase: ZB-5msi

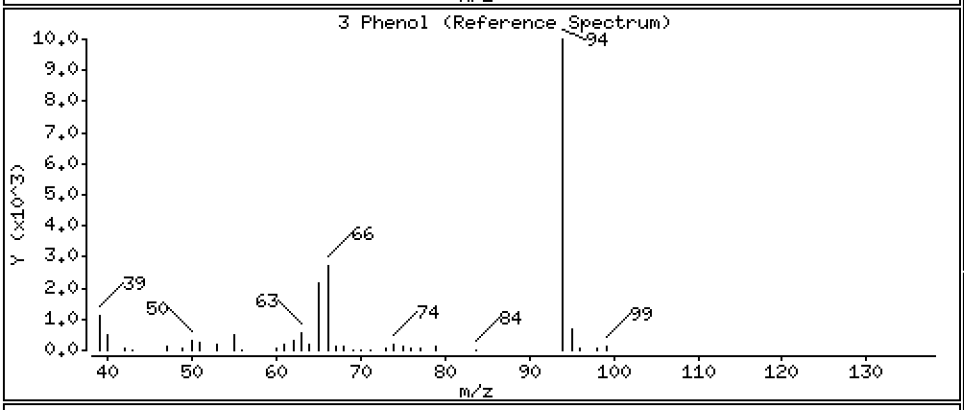
Column diameter: 0.25

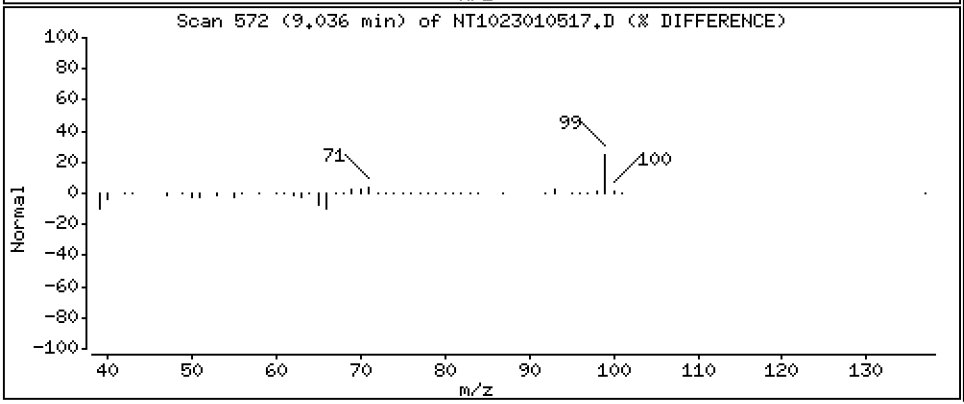
3 Phenol

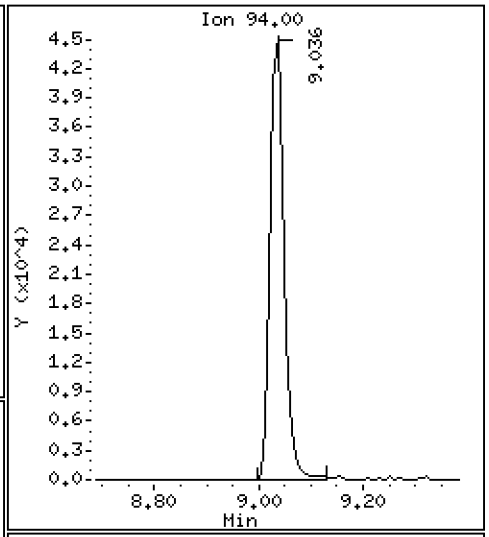
Concentration: 2.887 ug/mL

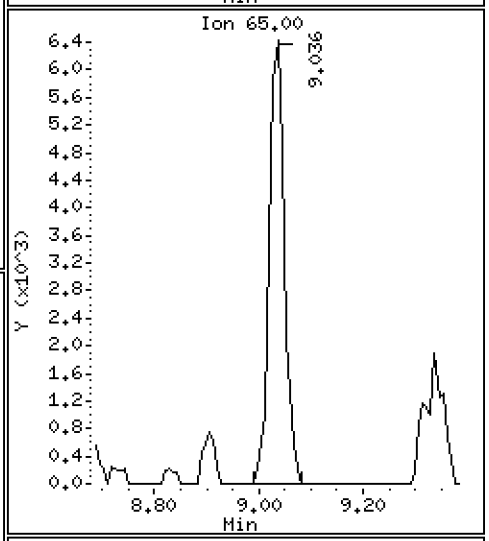


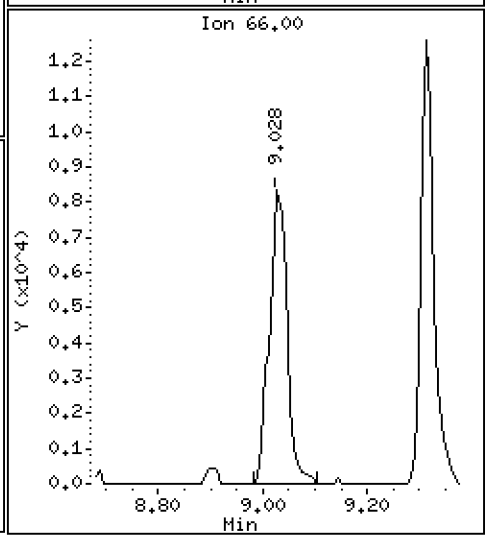












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

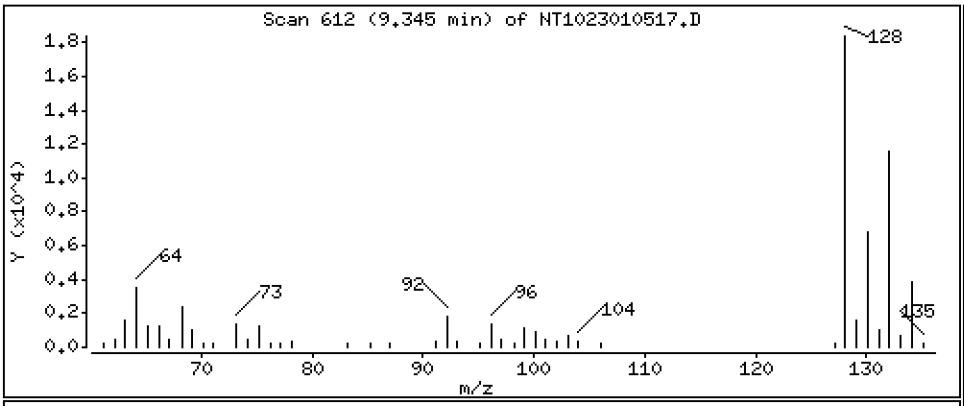
Operator: VTS

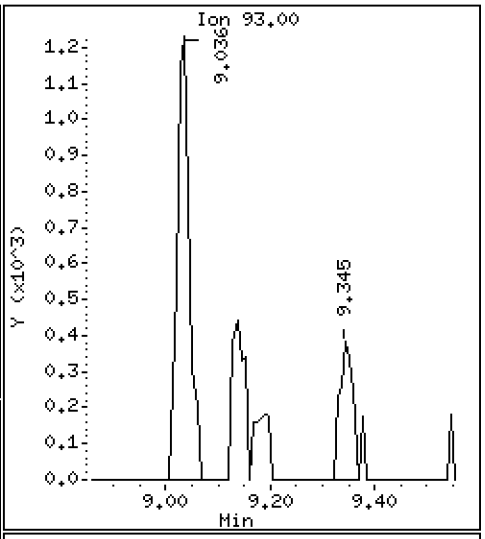
Column phase: ZB-5msi

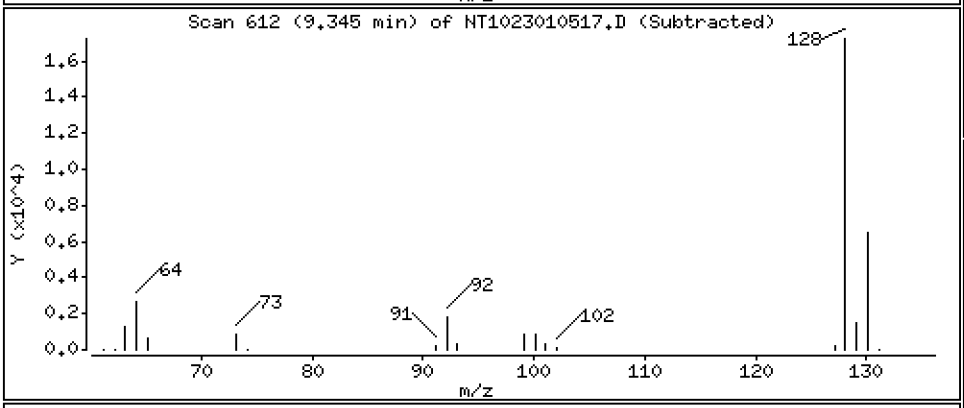
Column diameter: 0.25

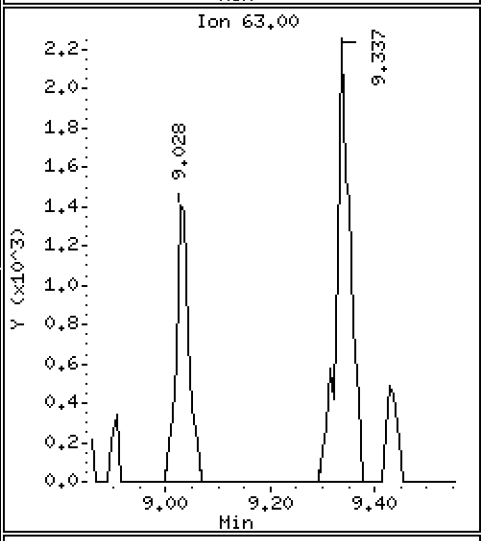
4 Bis(2-Chloroethyl)ether

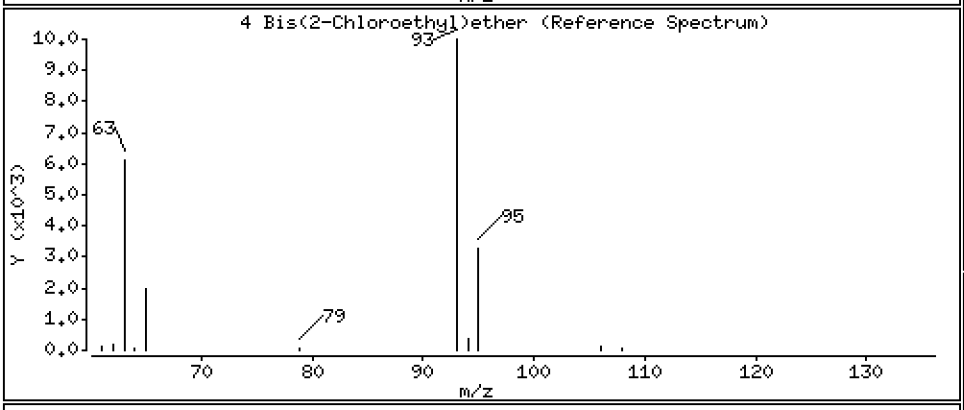
Concentration: 0.02793 ug/mL

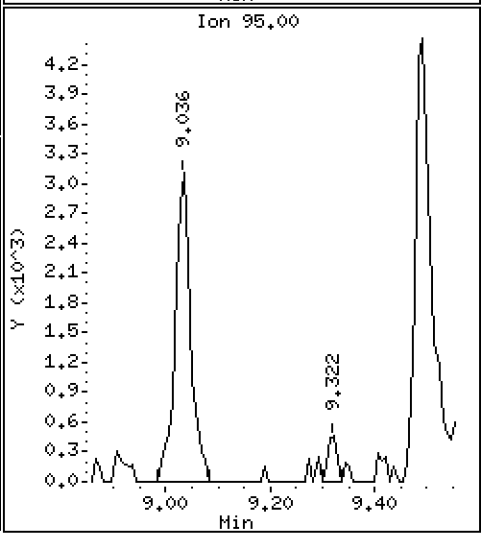


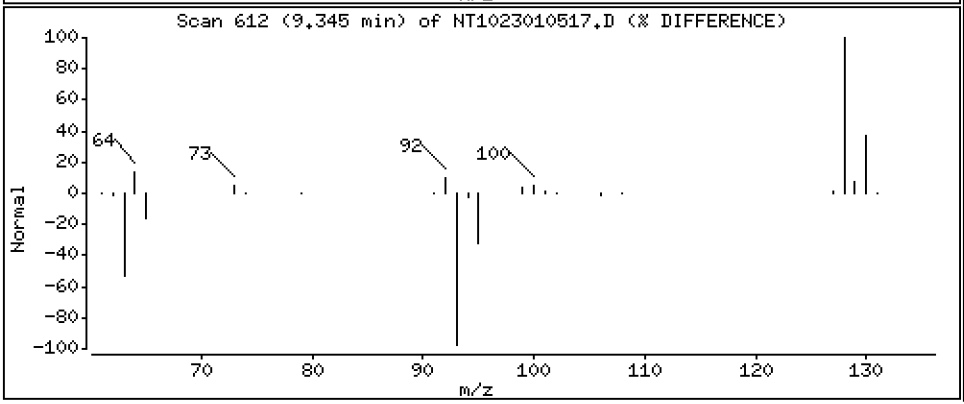












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

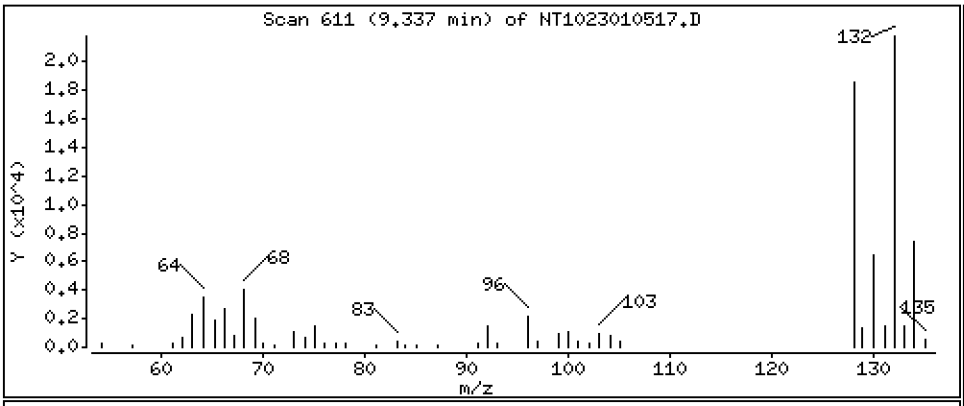
Operator: VTS

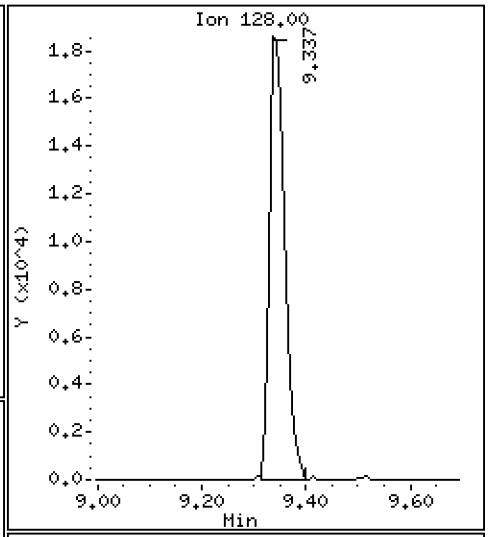
Column phase: ZB-5msi

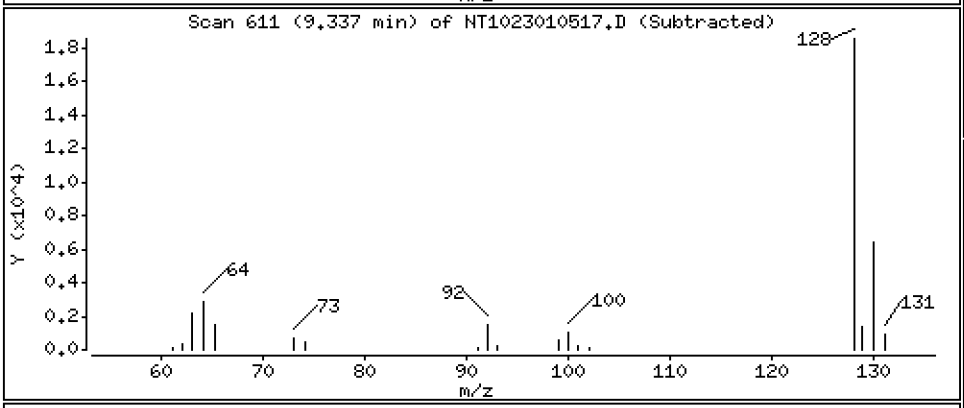
Column diameter: 0.25

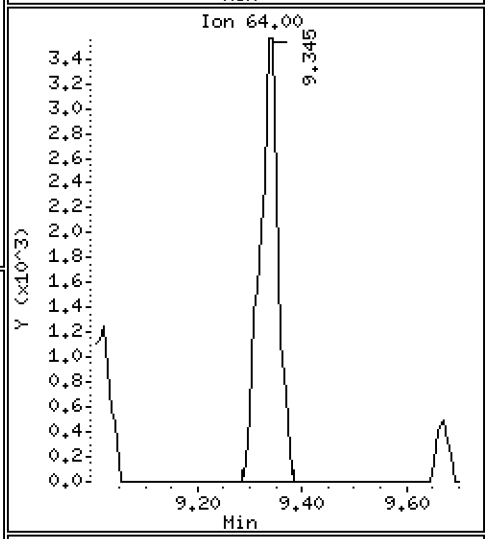
6 2-Chlorophenol

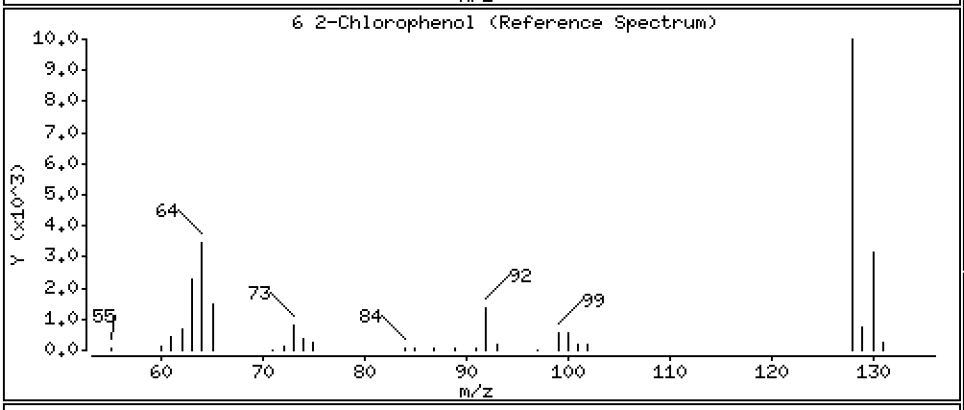
Concentration: 1.384 ug/mL

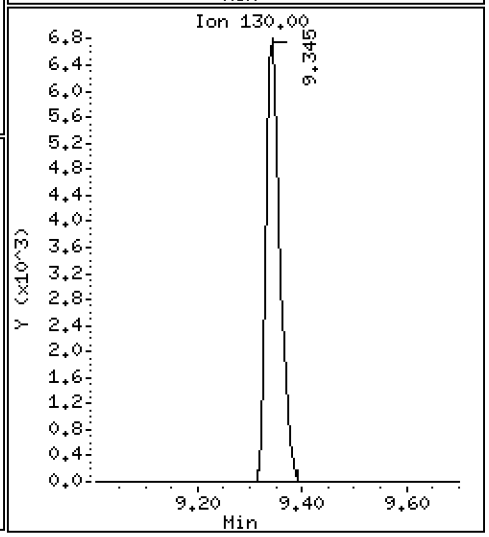


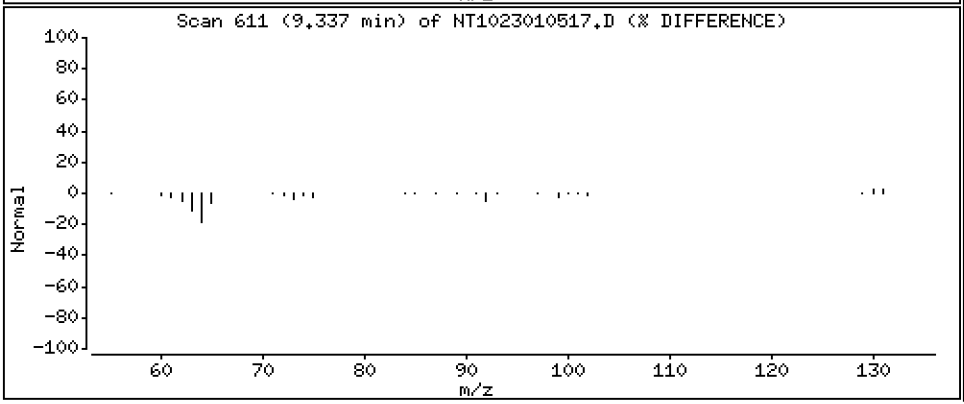












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010517.D

Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

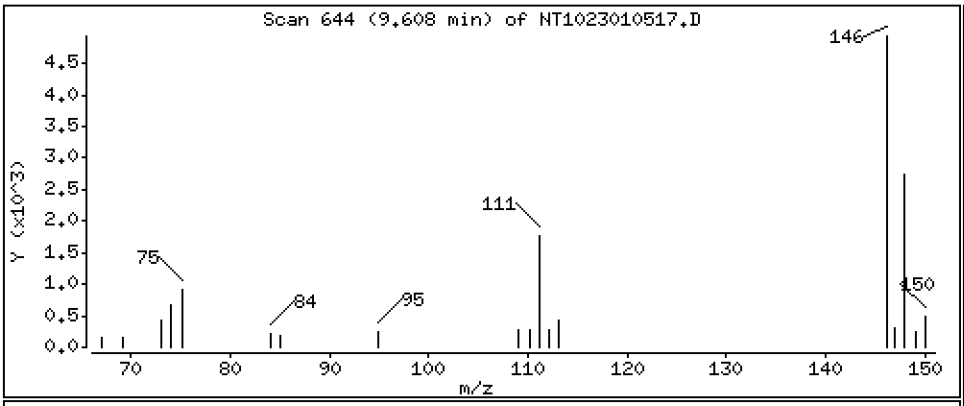
Operator: VTS

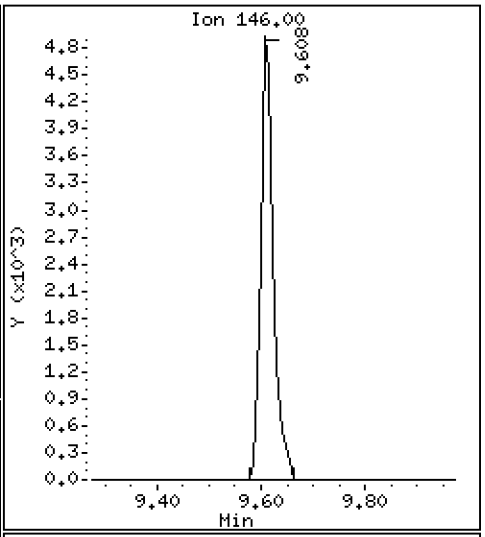
Column phase: ZB-5msi

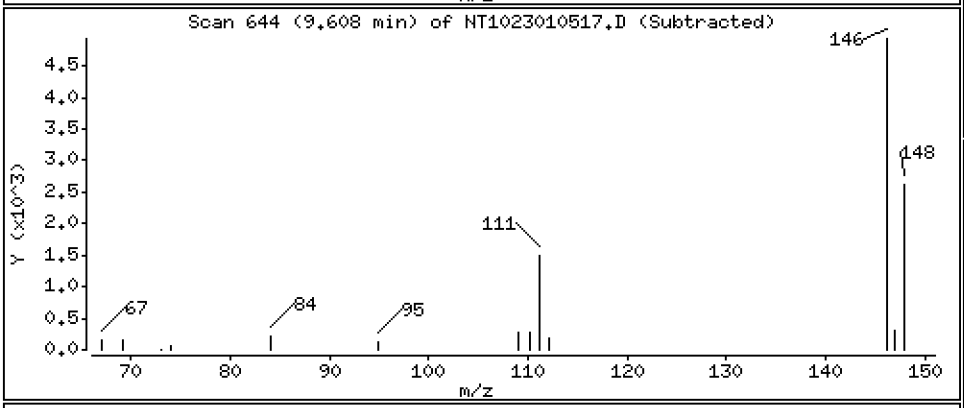
Column diameter: 0.25

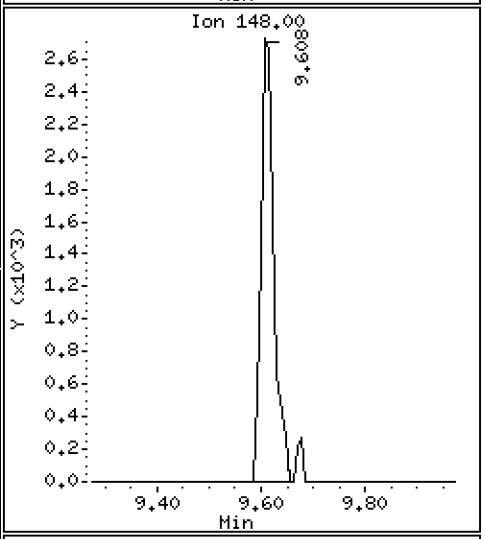
7 1,3-Dichlorobenzene

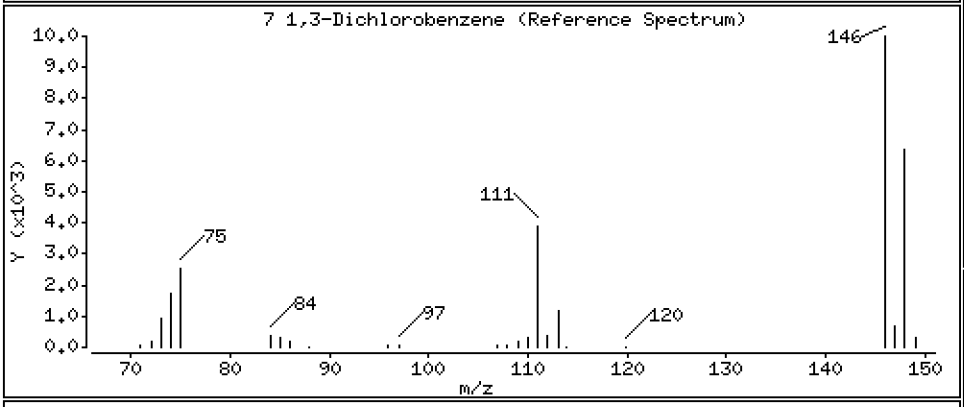
Concentration: 0.2986 ug/mL

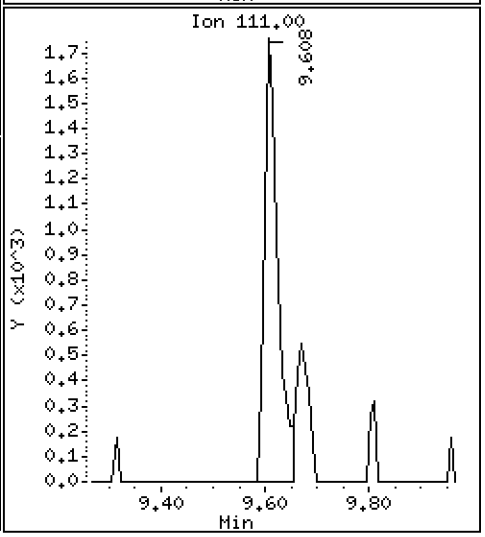


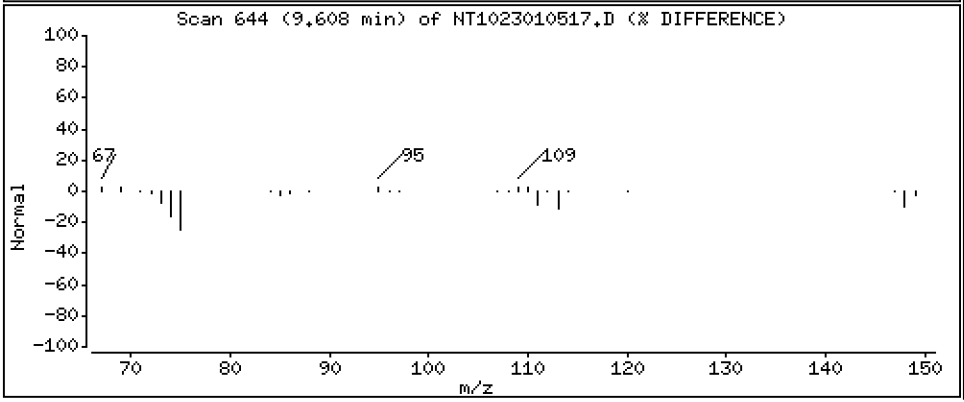












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

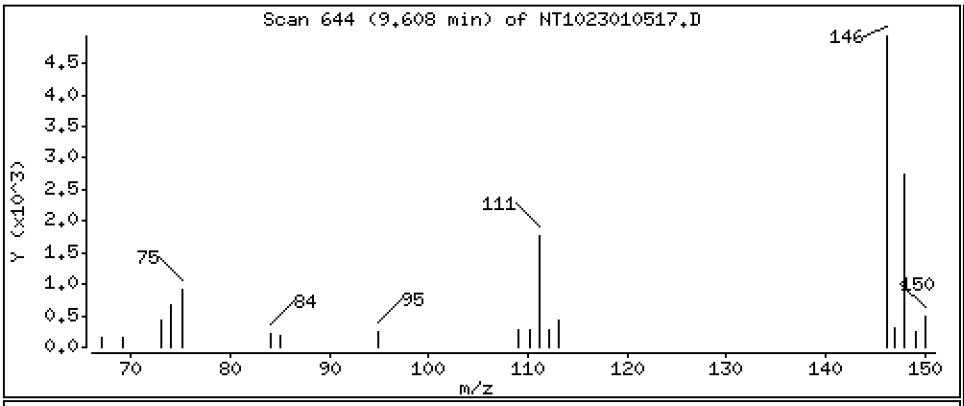
Operator: VTS

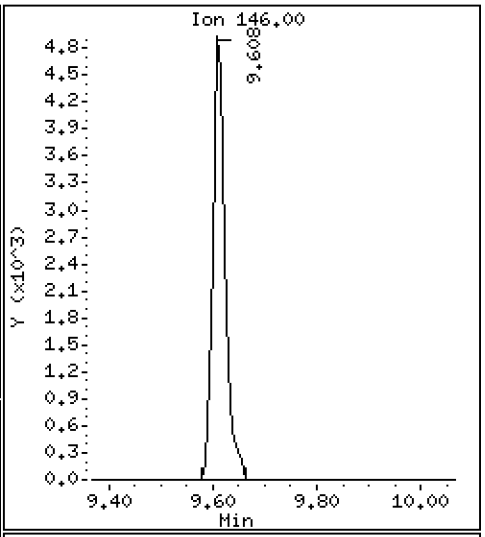
Column phase: ZB-5msi

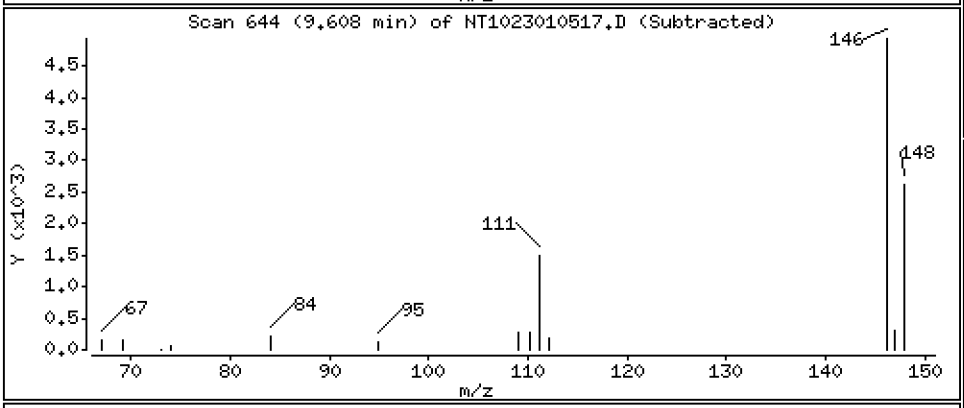
Column diameter: 0.25

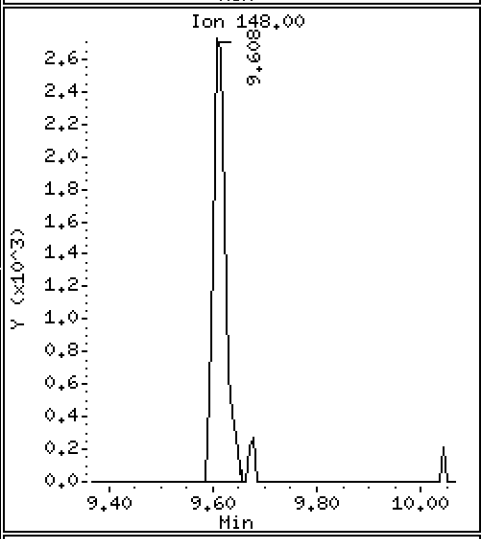
9 1,4-Dichlorobenzene

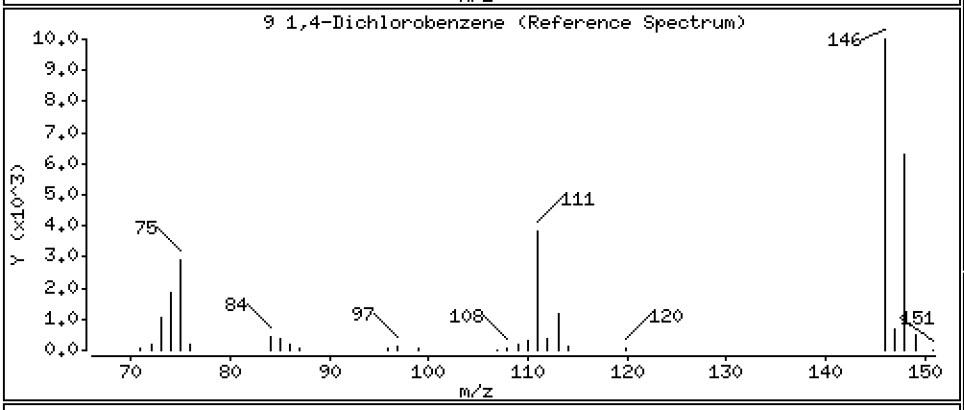
Concentration: 0.3472 ug/mL

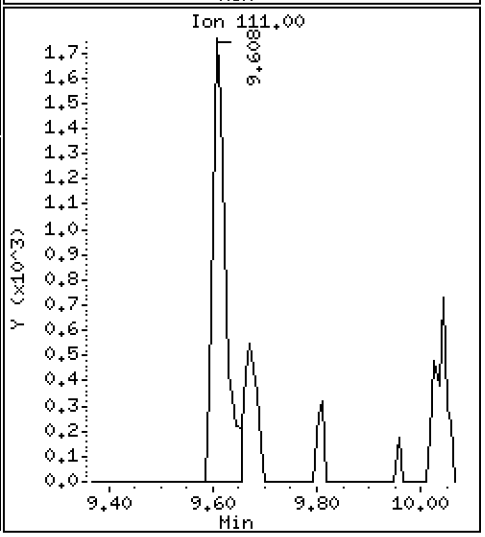


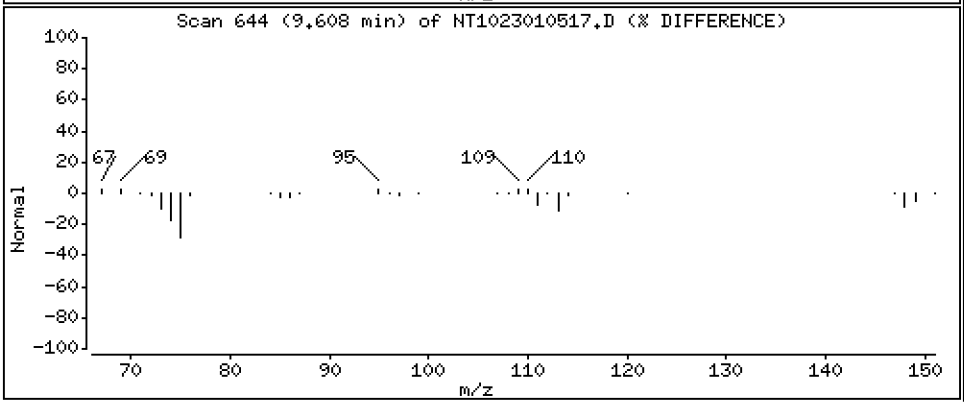












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

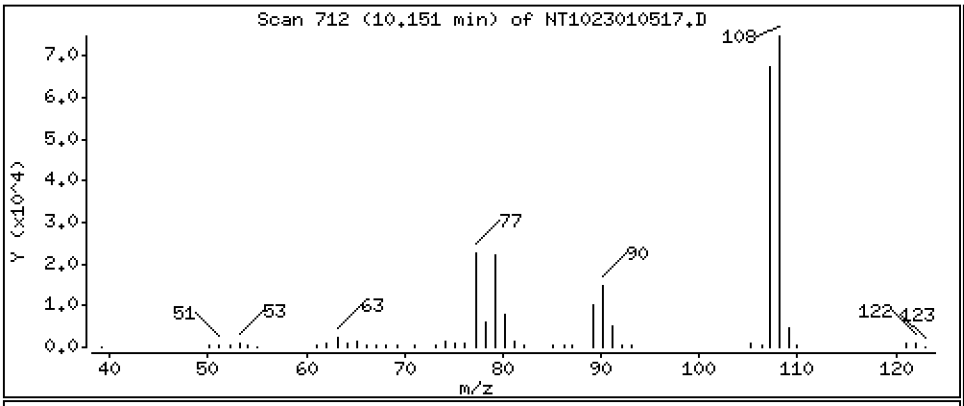
Operator: VTS

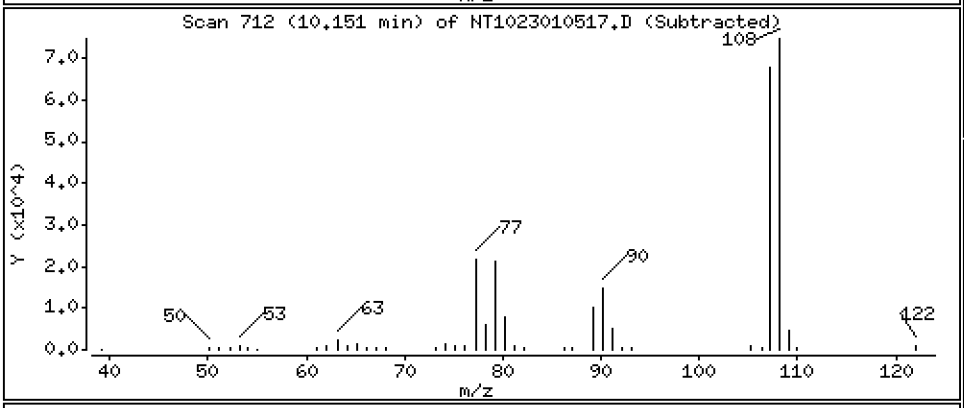
Column phase: ZB-5msi

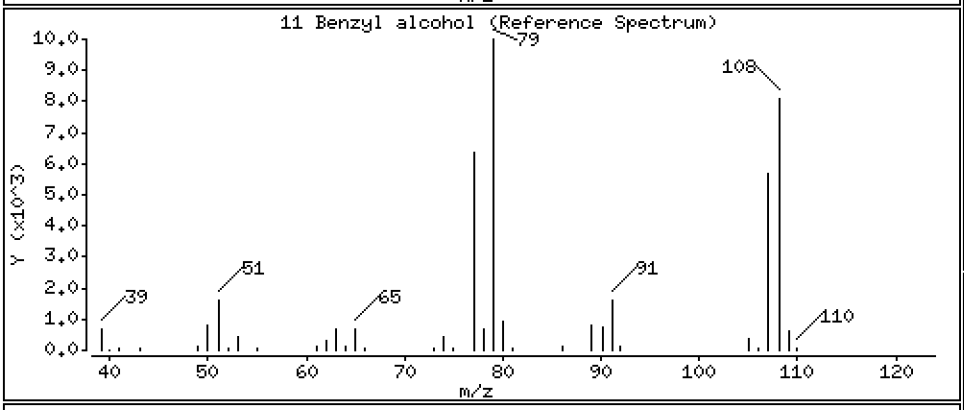
Column diameter: 0.25

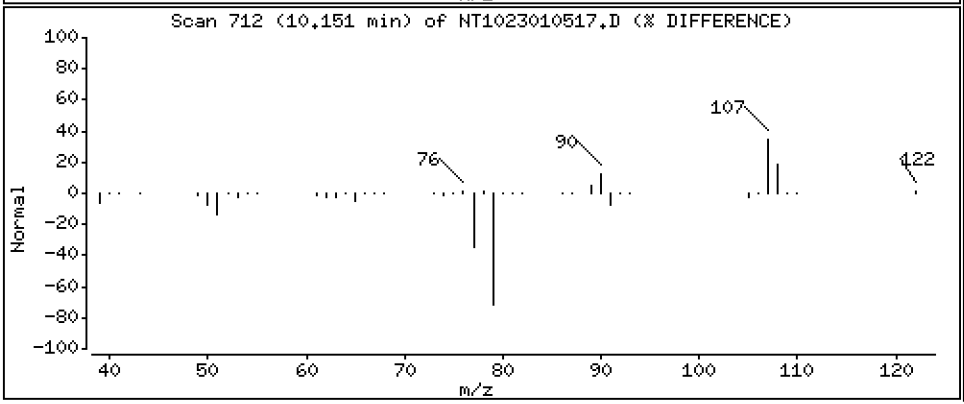
11 Benzyl alcohol

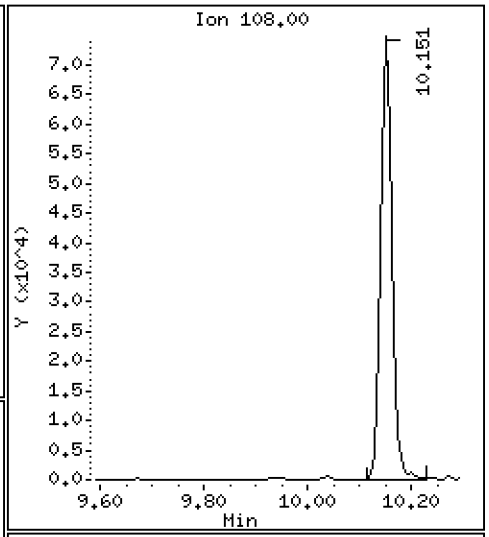
Concentration: 8.516 ug/mL

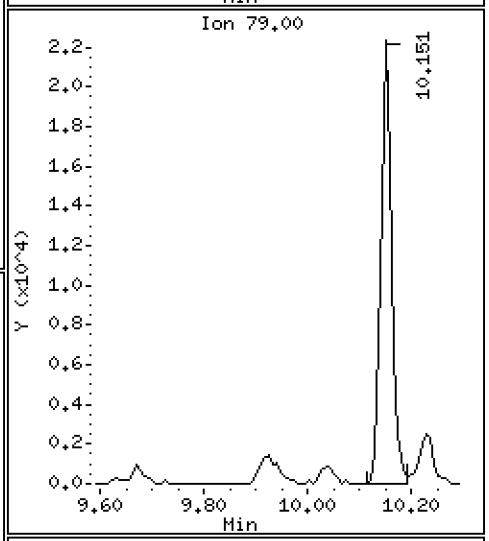


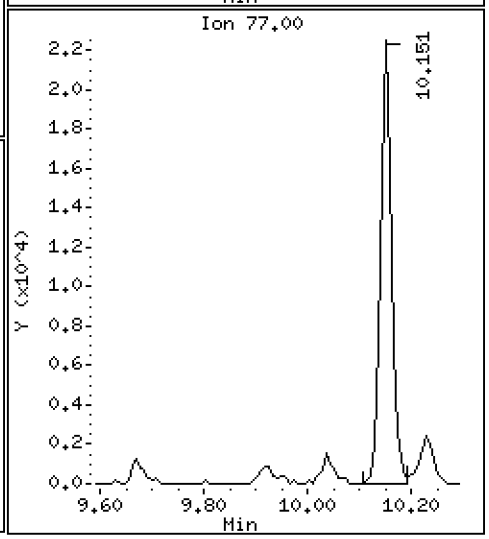












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

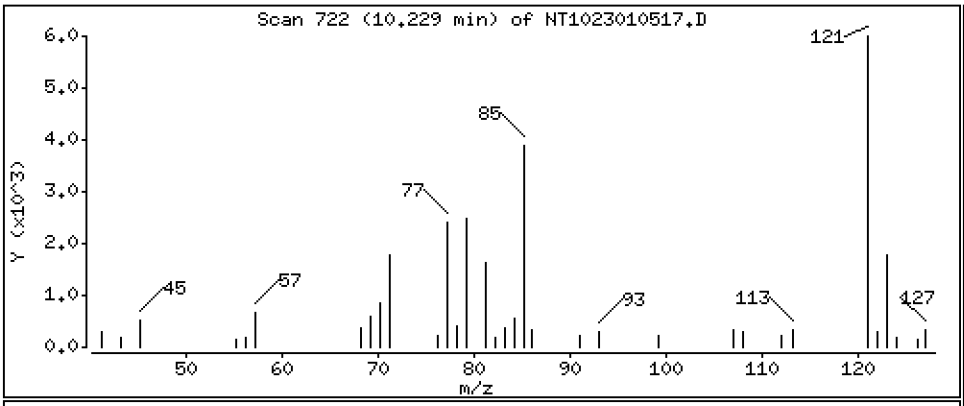
Operator: VTS

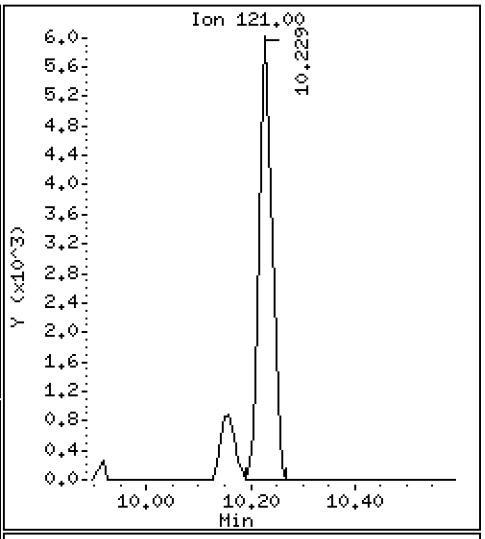
Column phase: ZB-5msi

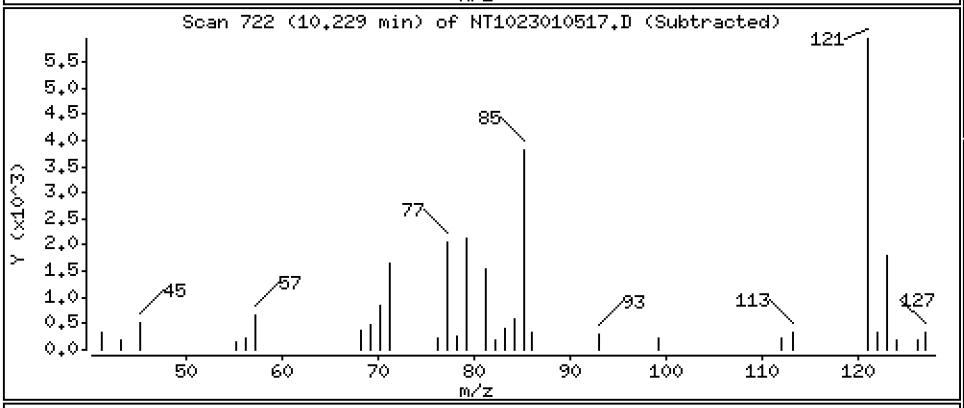
Column diameter: 0.25

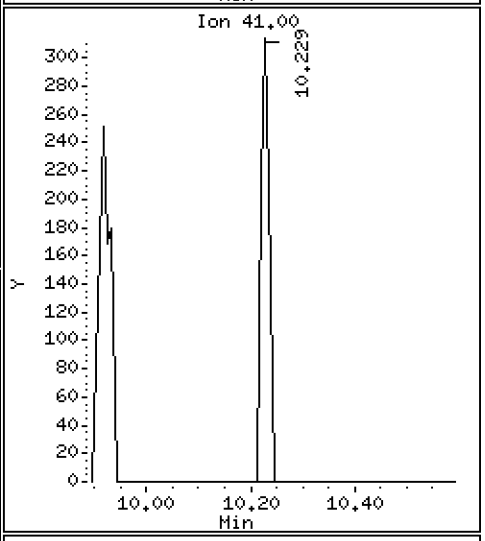
14 2,2'-oxybis(1-Chloropropane)

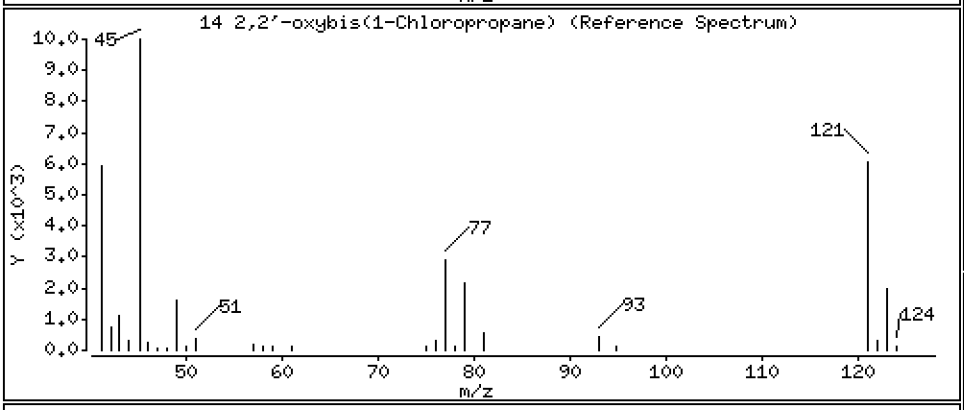
Concentration: 1.401 ug/mL

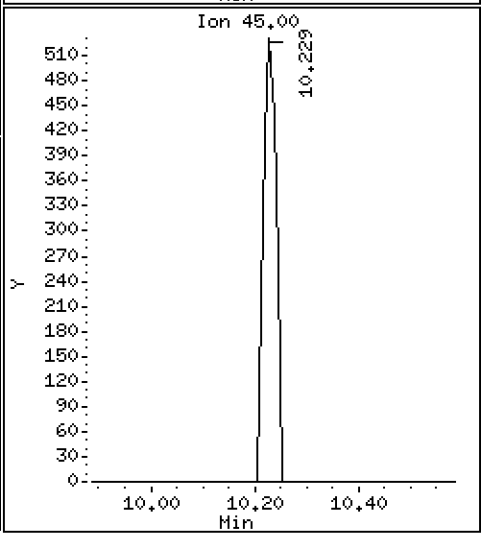


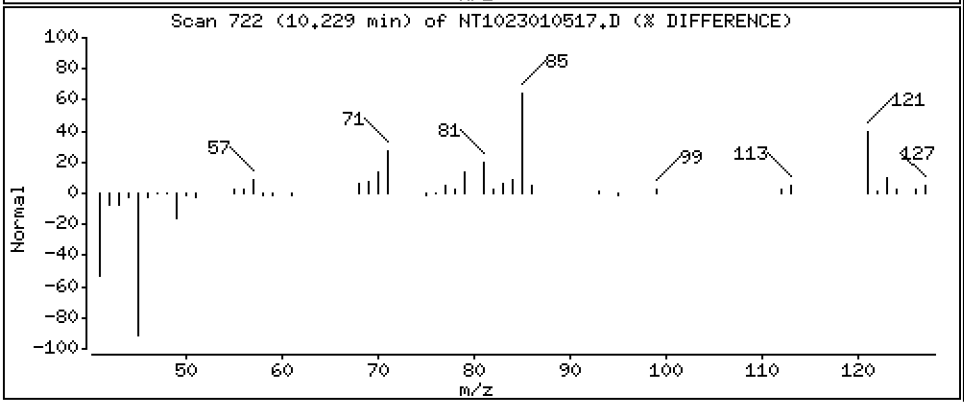












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

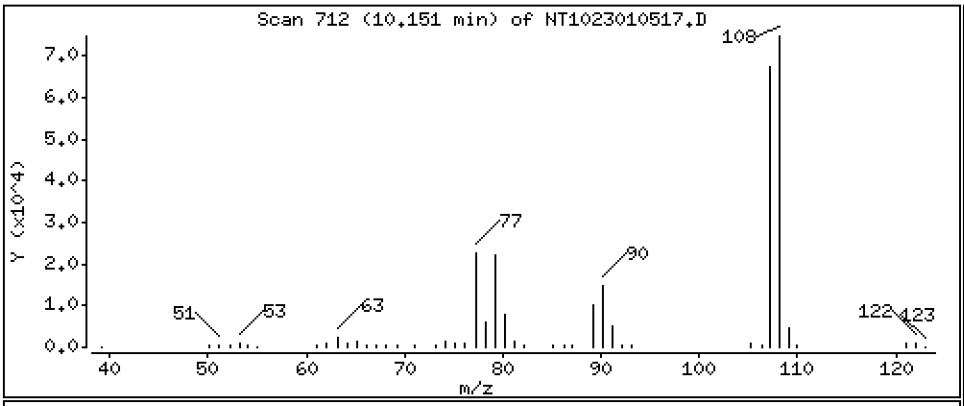
Operator: VTS

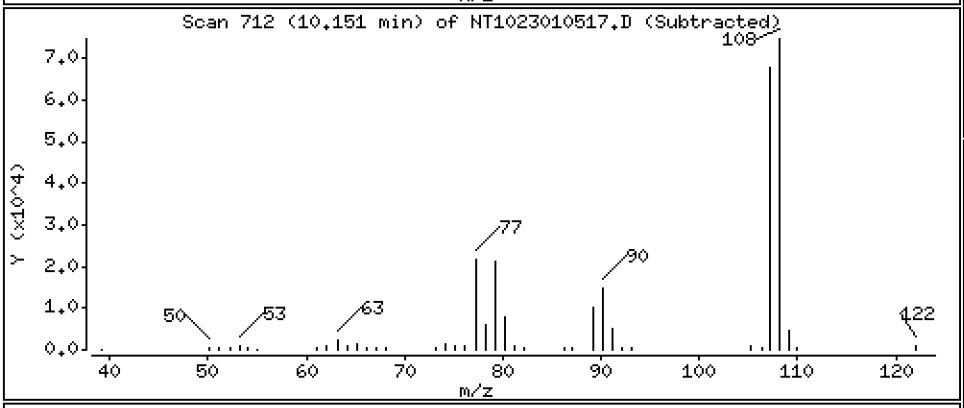
Column phase: ZB-5msi

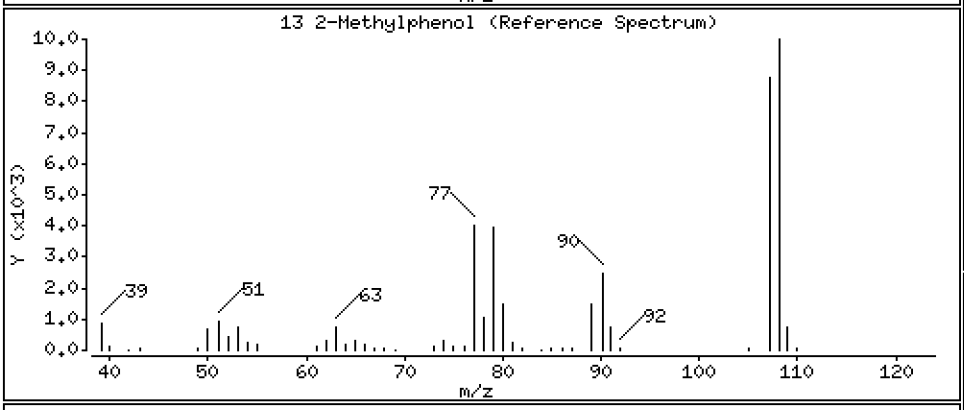
Column diameter: 0.25

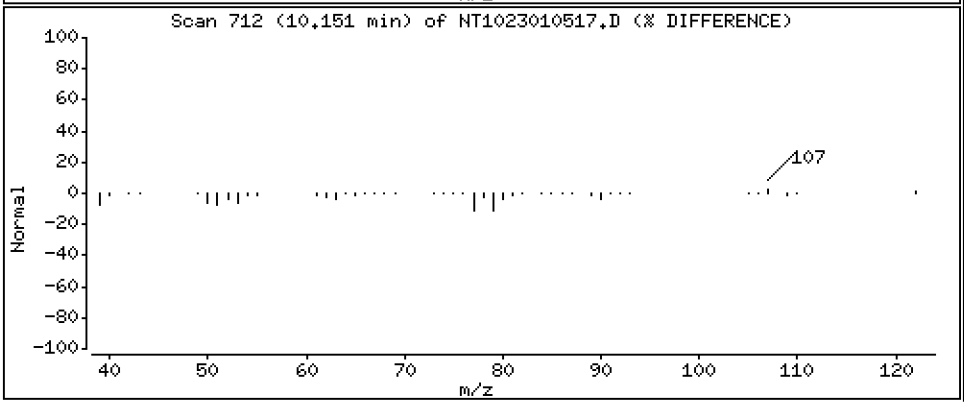
13 2-Methylphenol

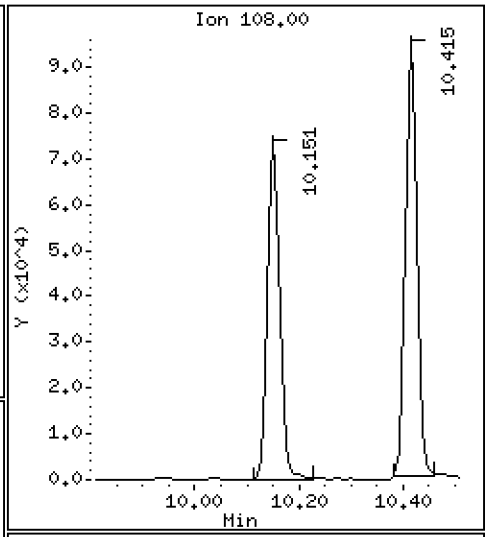
Concentration: 6.158 ug/mL

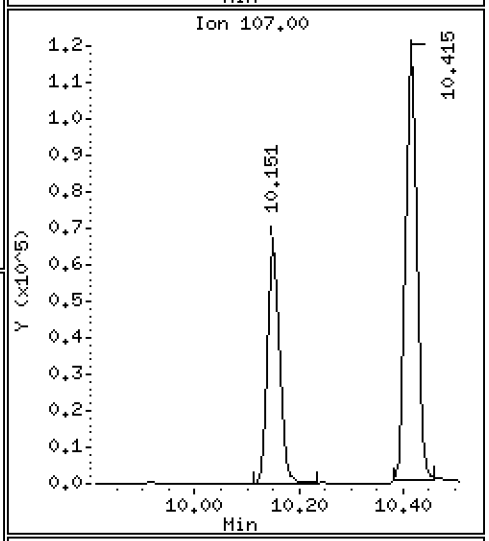


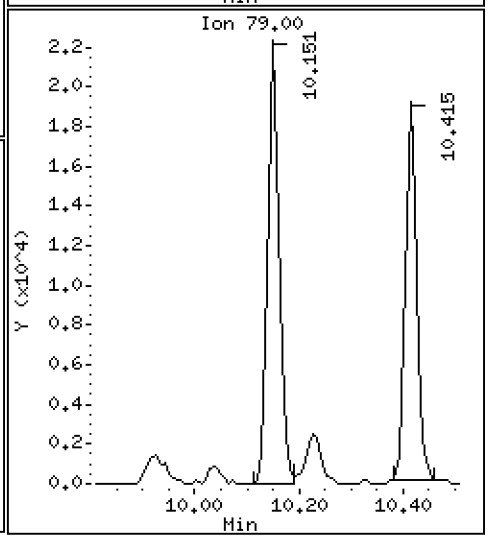












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

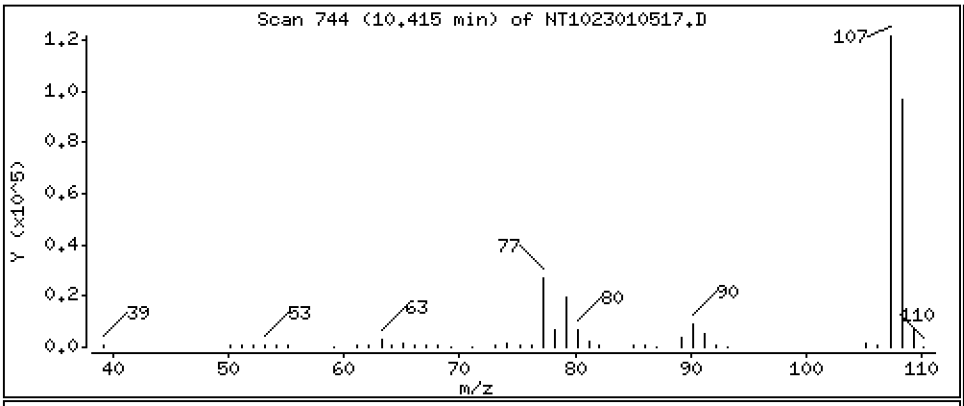
Operator: VTS

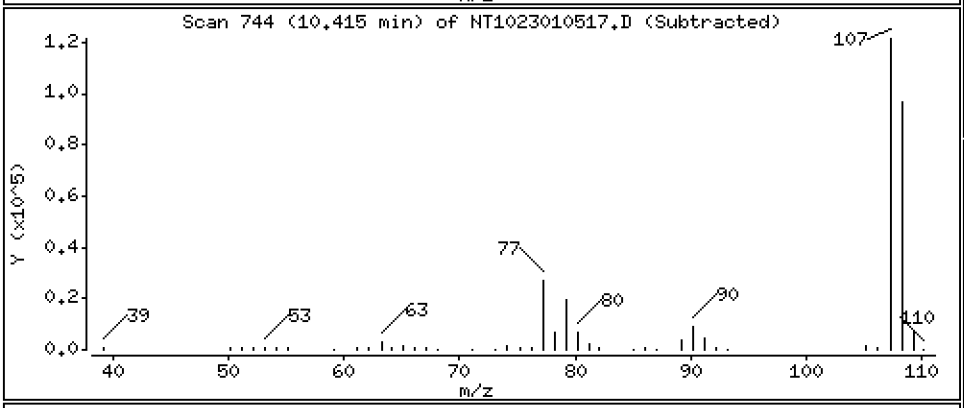
Column phase: ZB-5msi

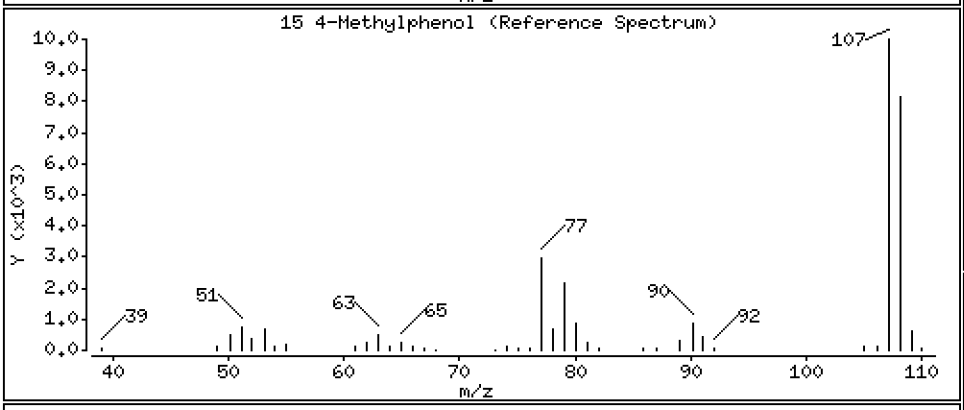
Column diameter: 0.25

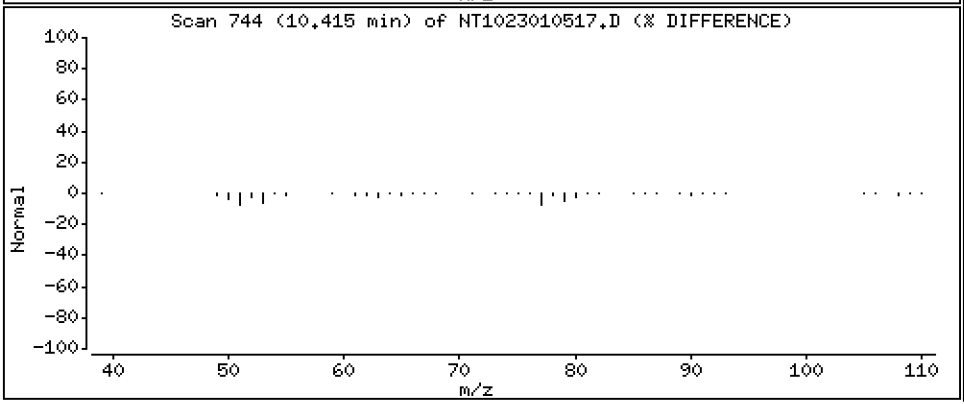
15 4-Methylphenol

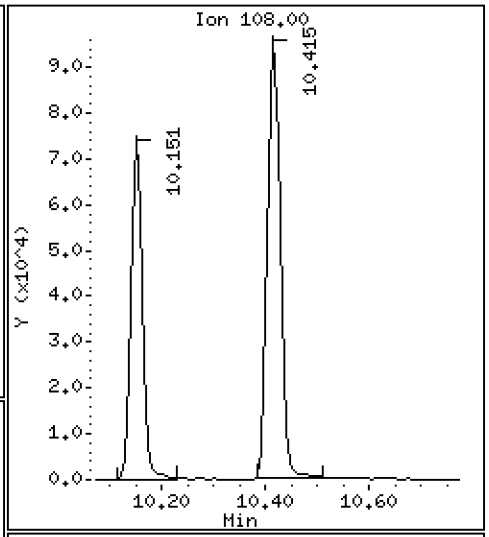
Concentration: 8.713 ug/mL

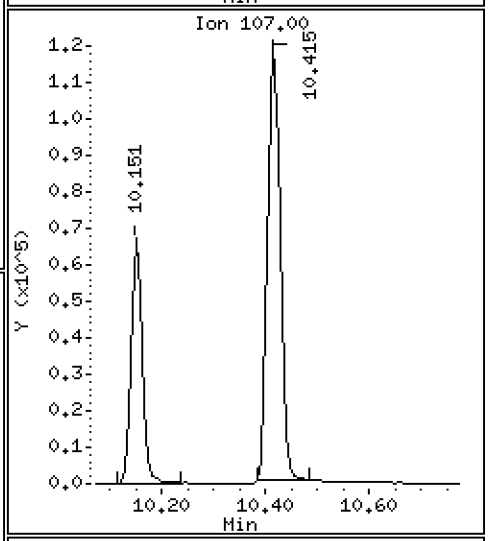


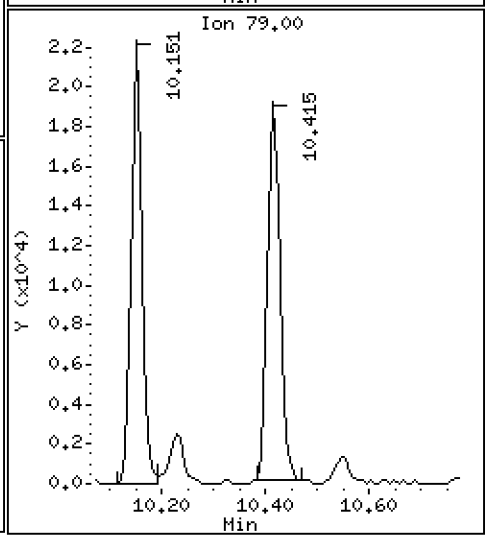












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

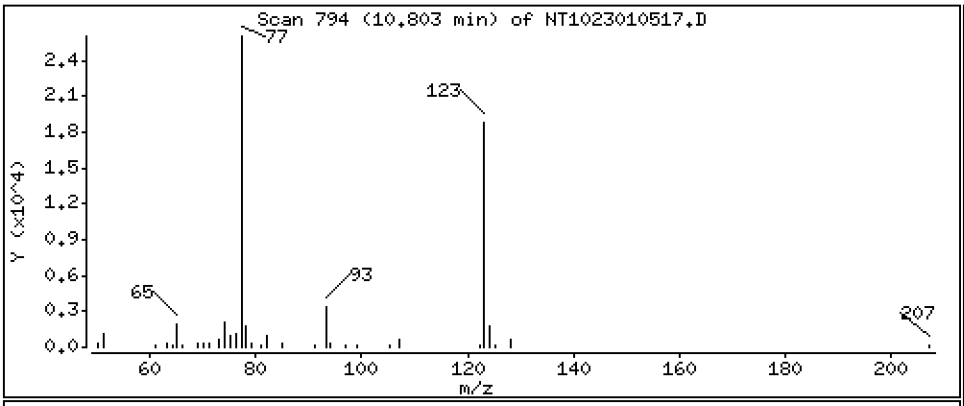
Operator: VTS

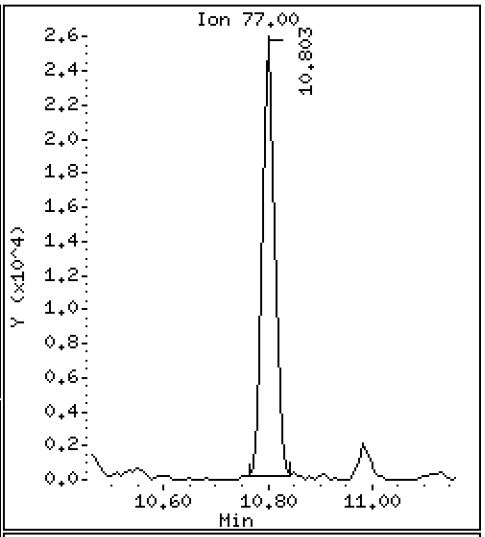
Column phase: ZB-5msi

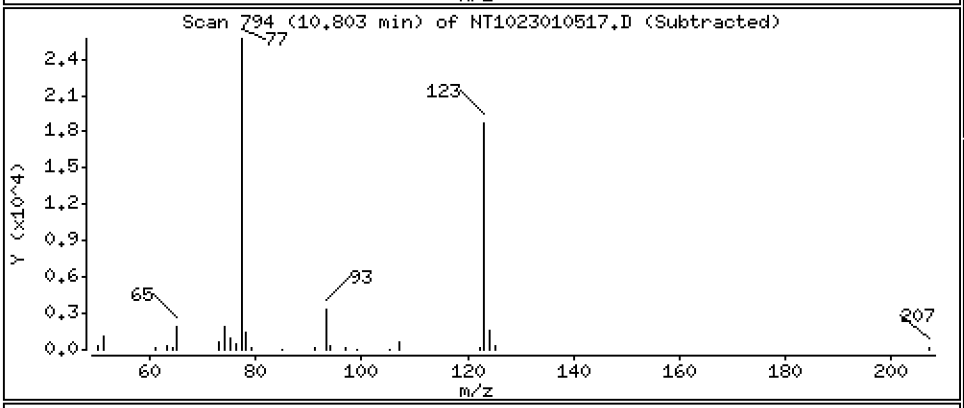
Column diameter: 0.25

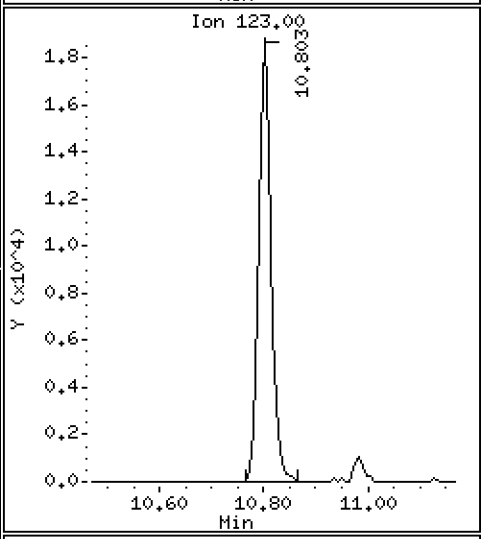
19 Nitrobenzene

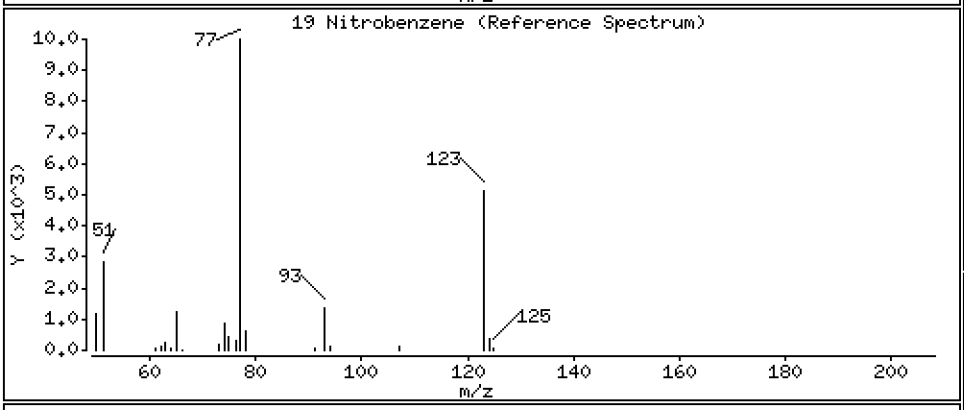
Concentration: 2.531 ug/mL

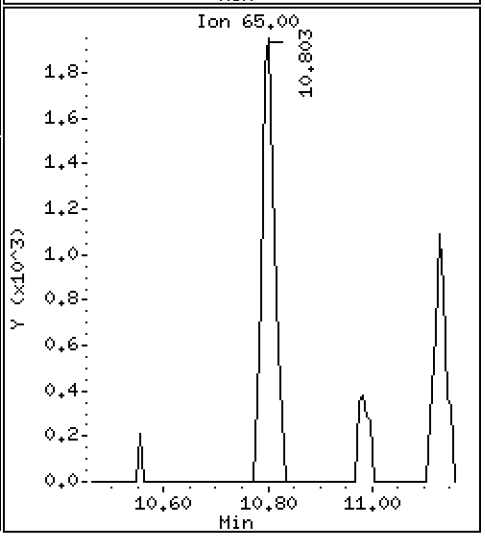


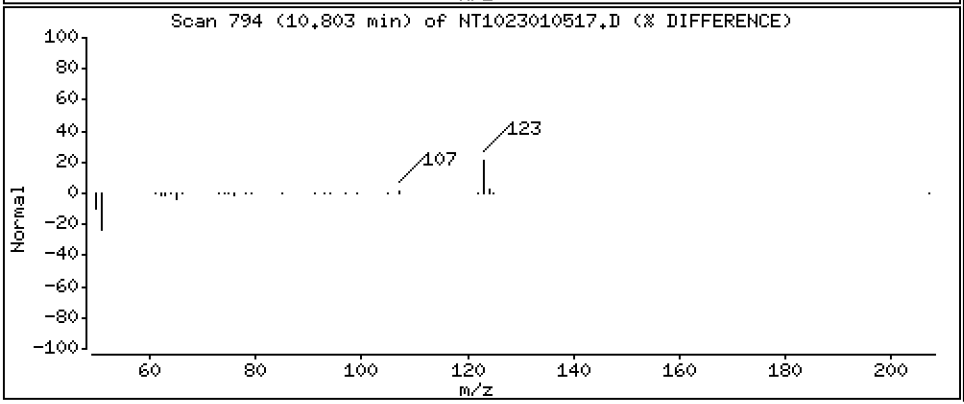












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

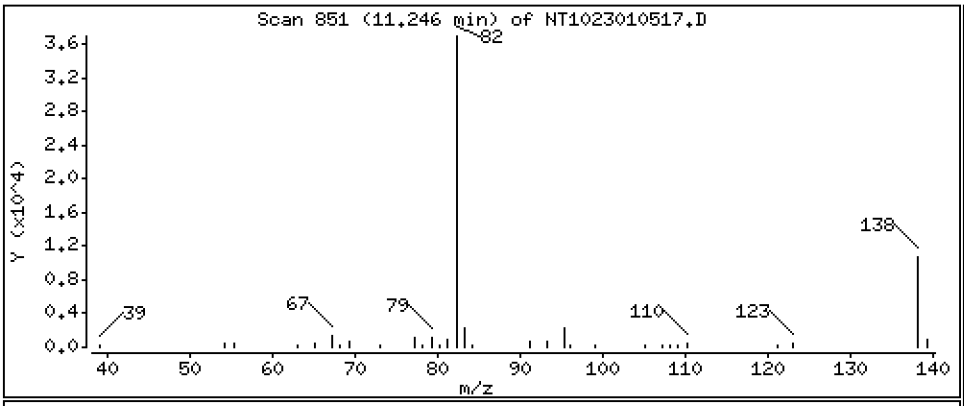
Operator: VTS

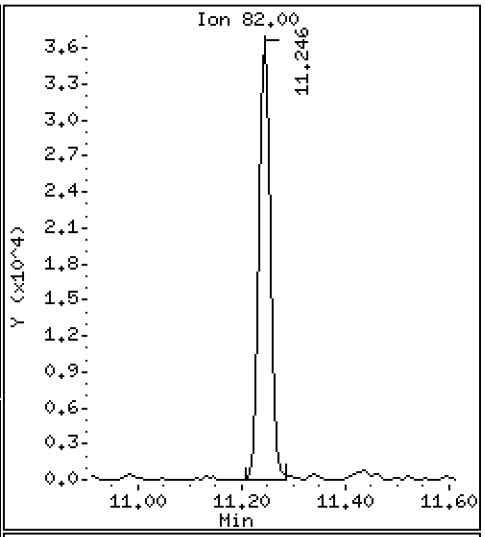
Column phase: ZB-5msi

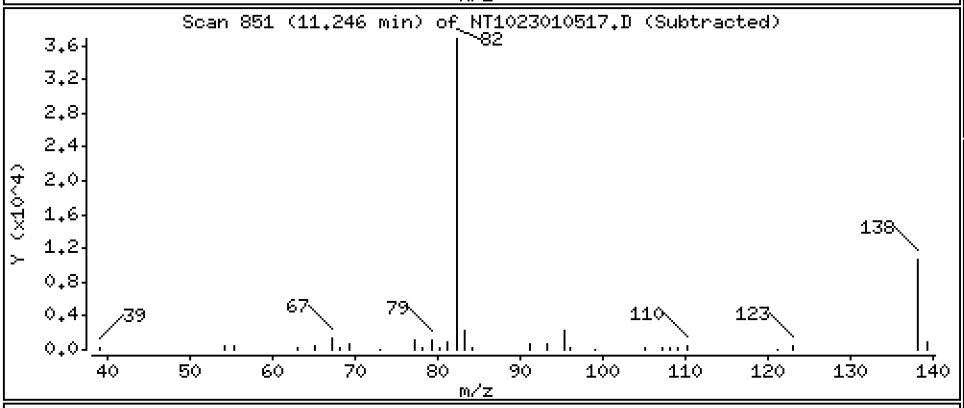
Column diameter: 0.25

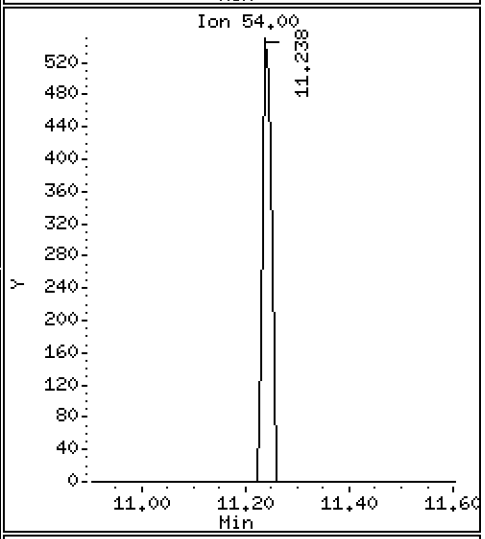
20 Isophorone

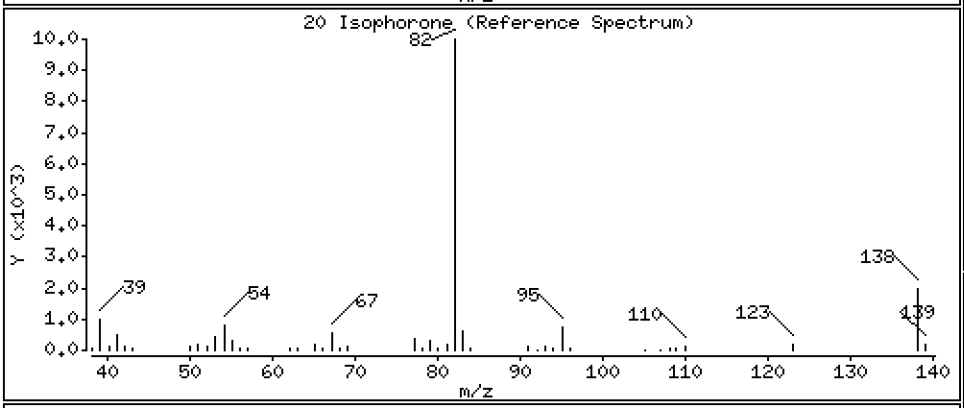
Concentration: 2.319 ug/mL

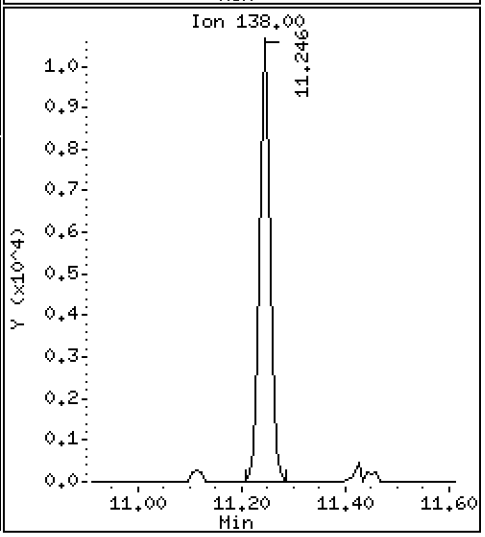


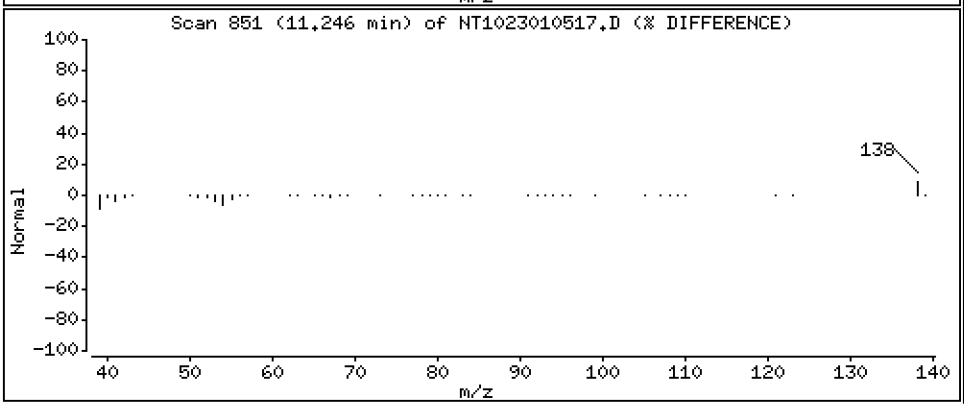












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

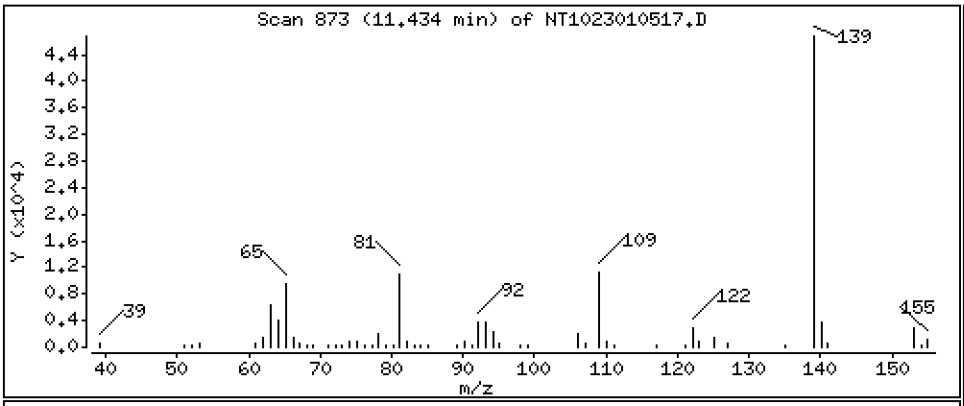
Operator: VTS

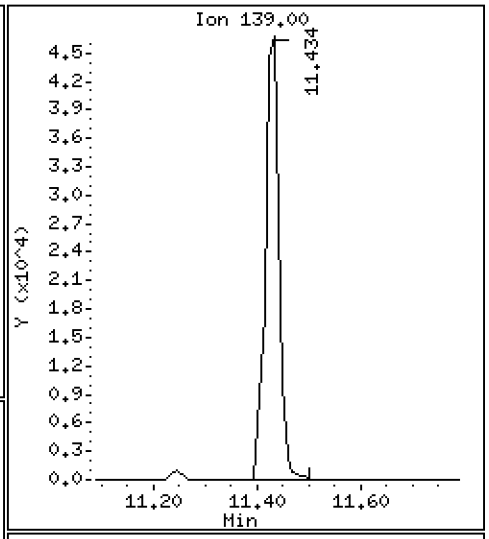
Column phase: ZB-5msi

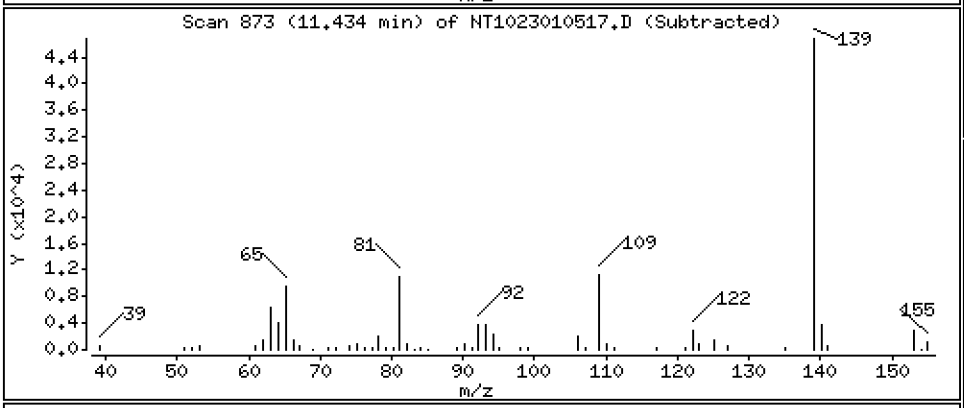
Column diameter: 0.25

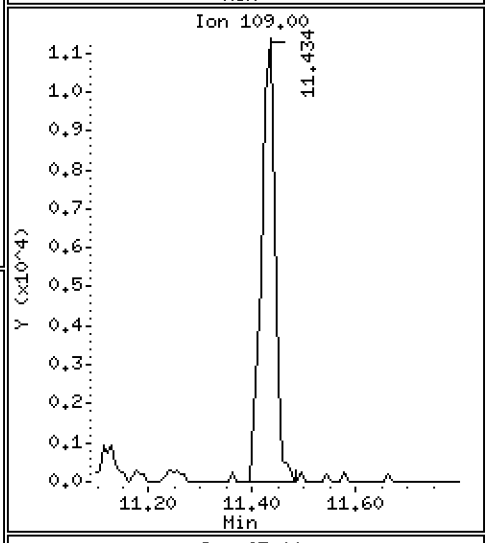
21 2-Nitrophenol

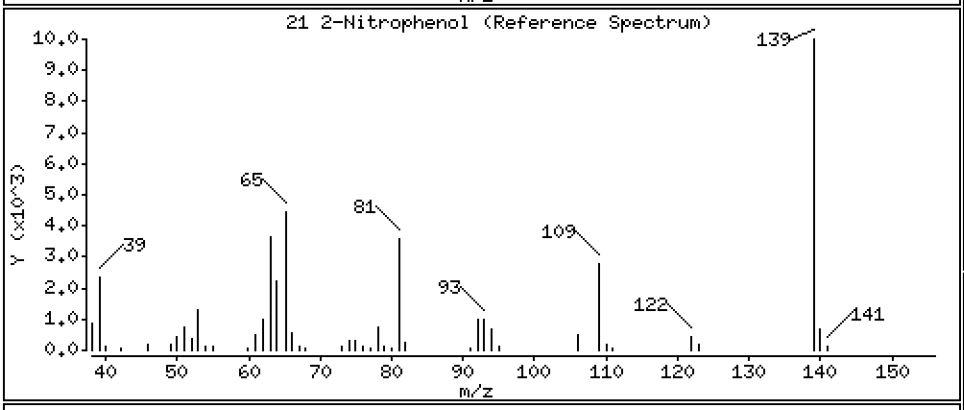
Concentration: 5.649 ug/mL

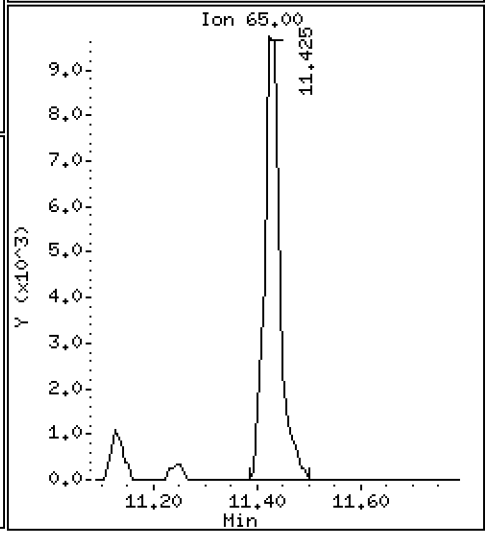


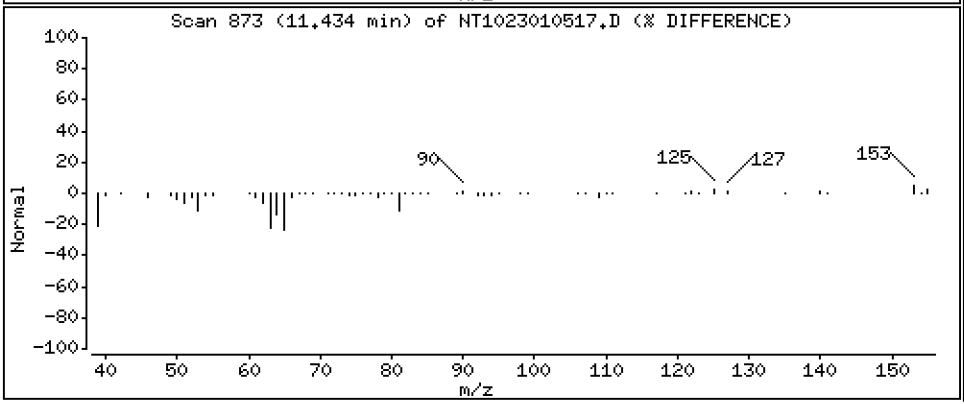












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

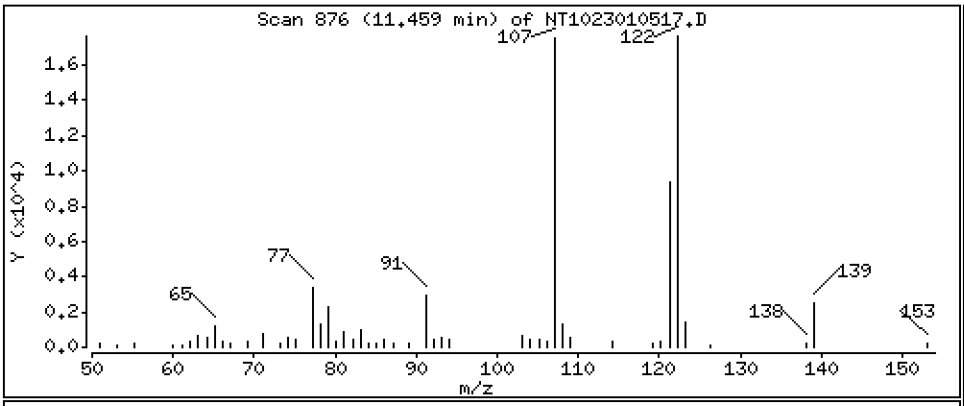
Operator: VTS

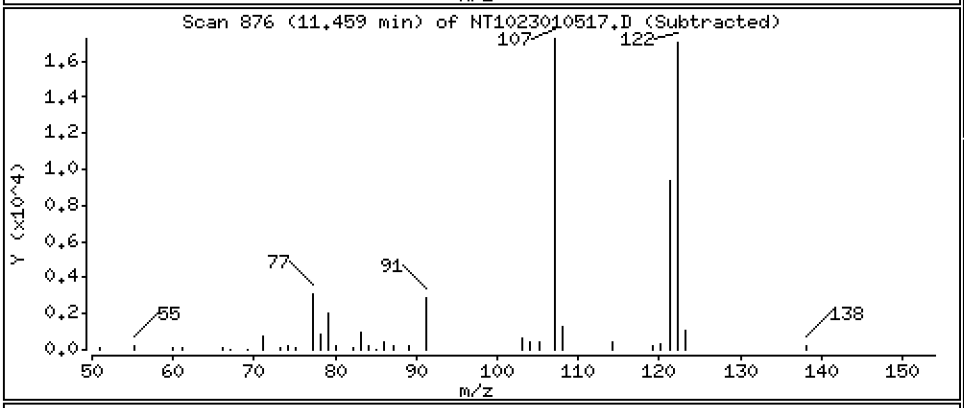
Column phase: ZB-5msi

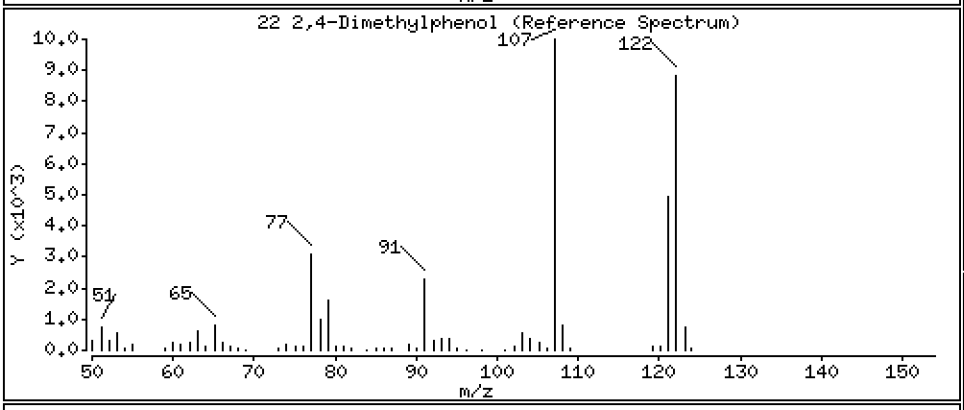
Column diameter: 0.25

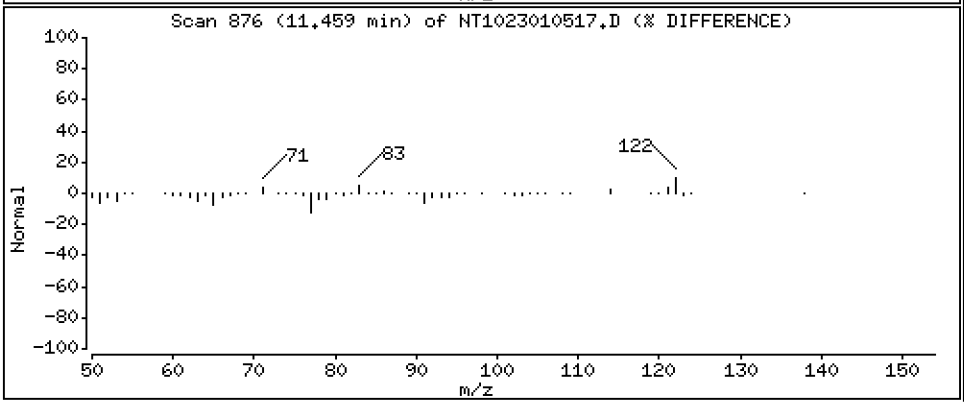
22 2,4-Dimethylphenol

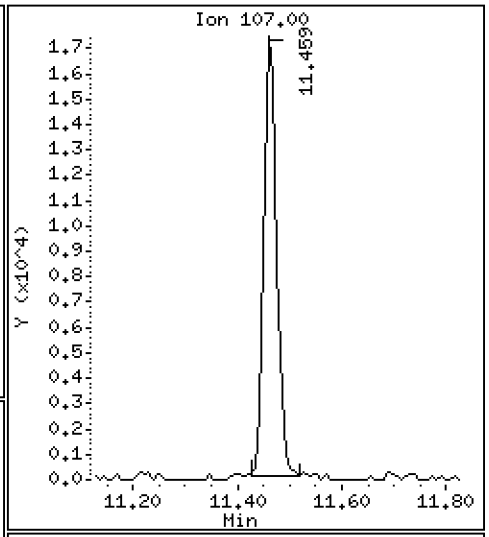
Concentration: 1.353 ug/mL

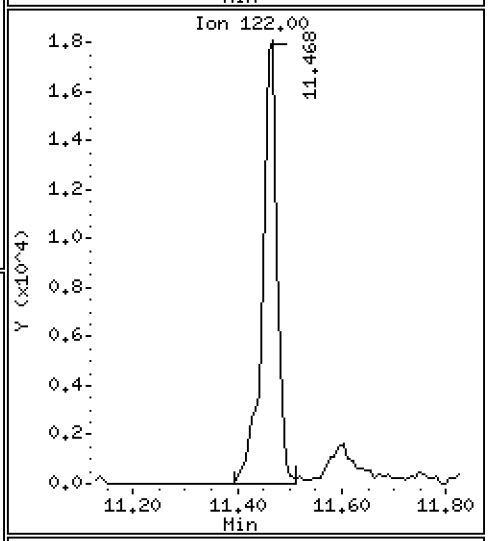


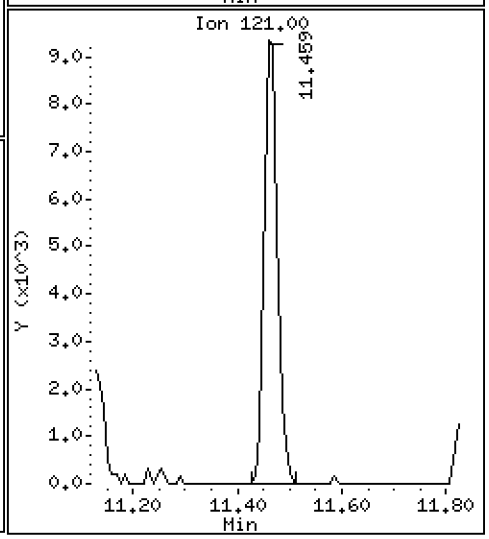












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

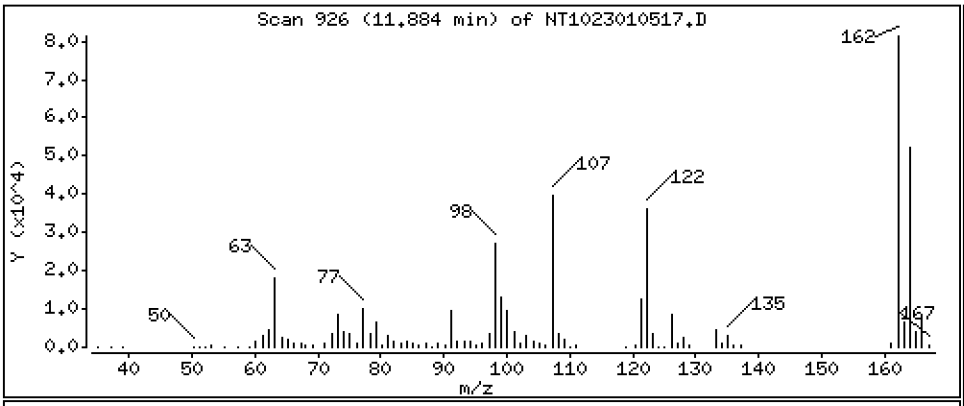
Operator: VTS

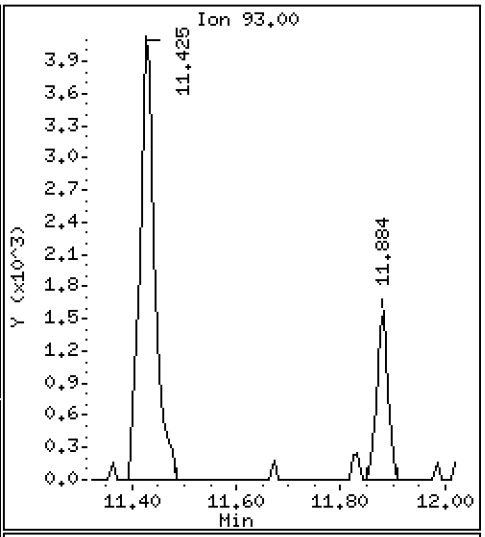
Column phase: ZB-5msi

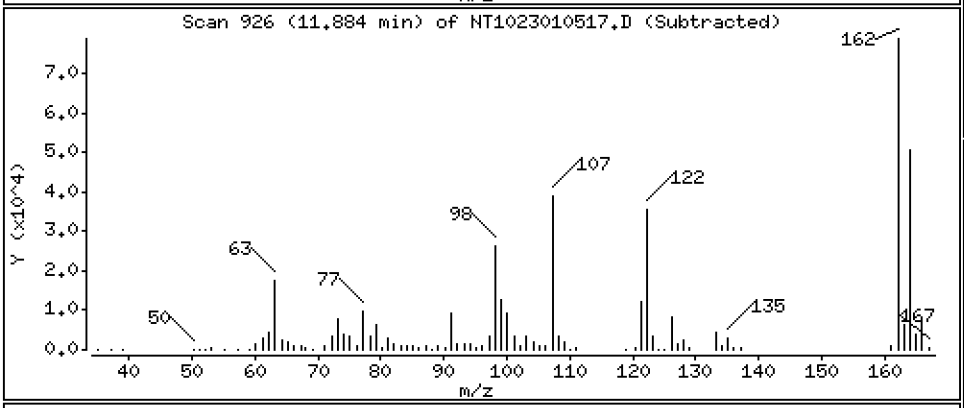
Column diameter: 0.25

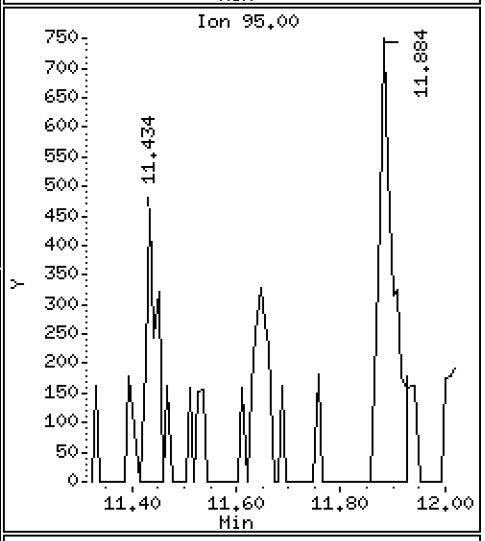
23 Bis(2-Chloroethoxy)methane

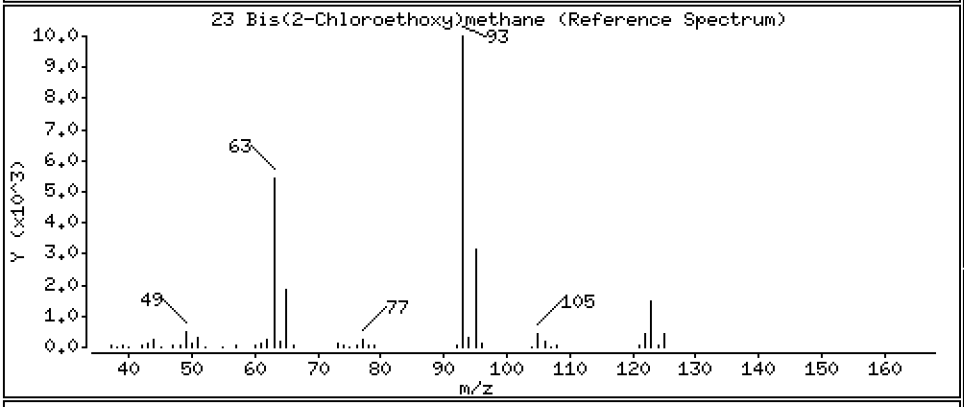
Concentration: 0.1330 ug/mL

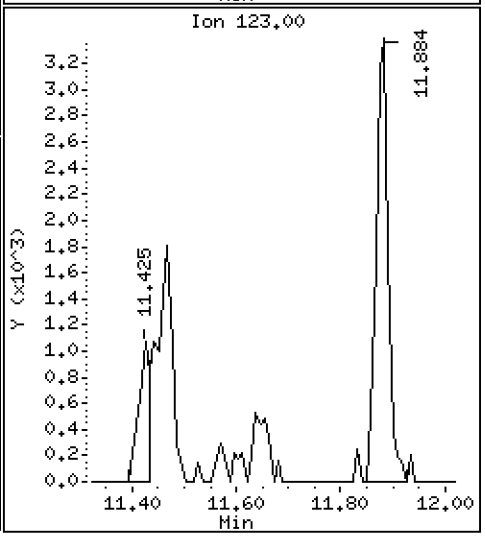


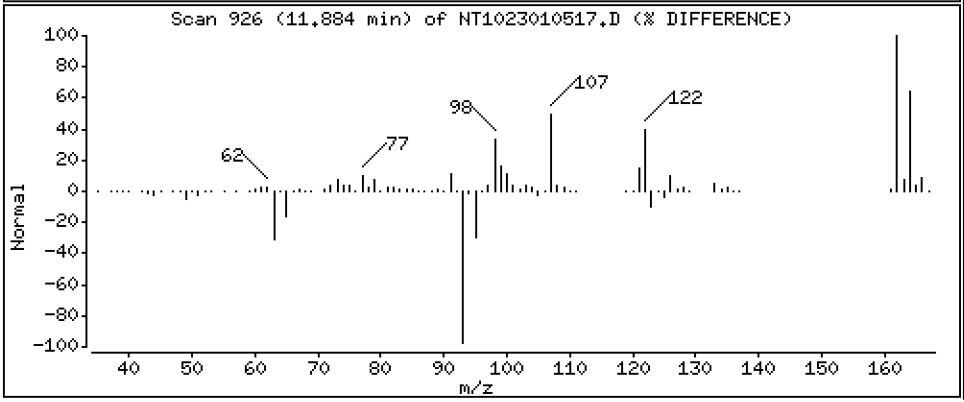












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

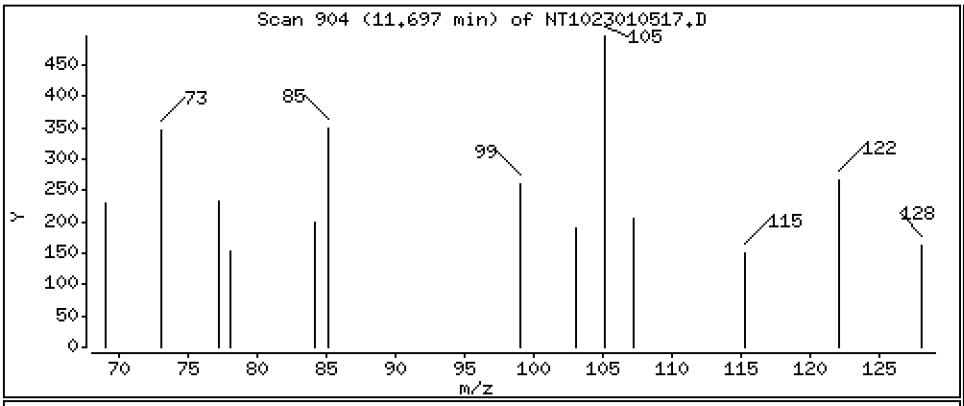
Operator: VTS

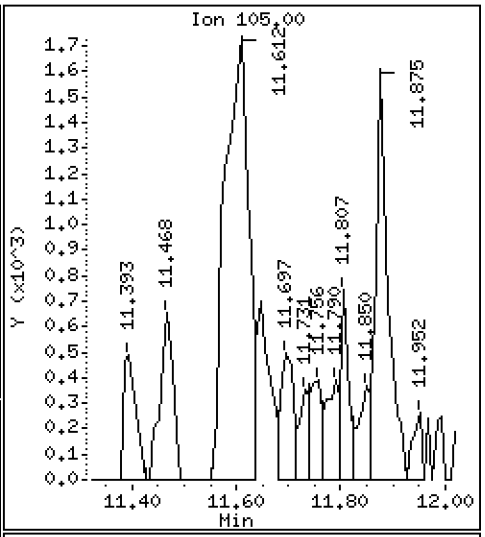
Column phase: ZB-5msi

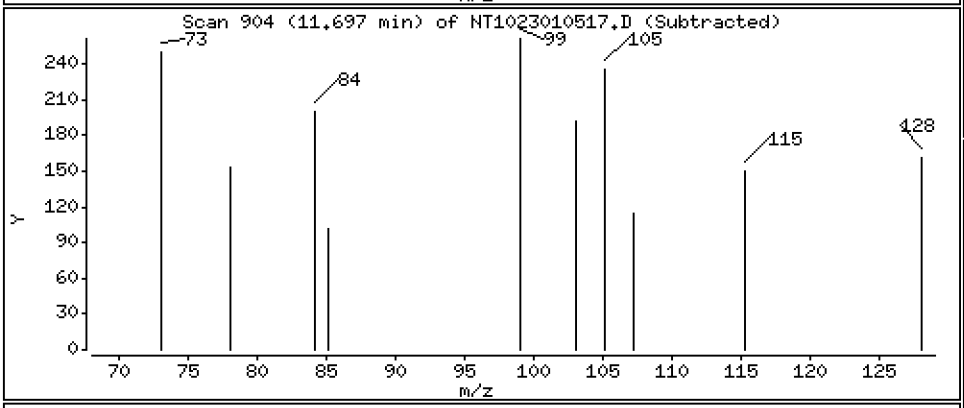
Column diameter: 0.25

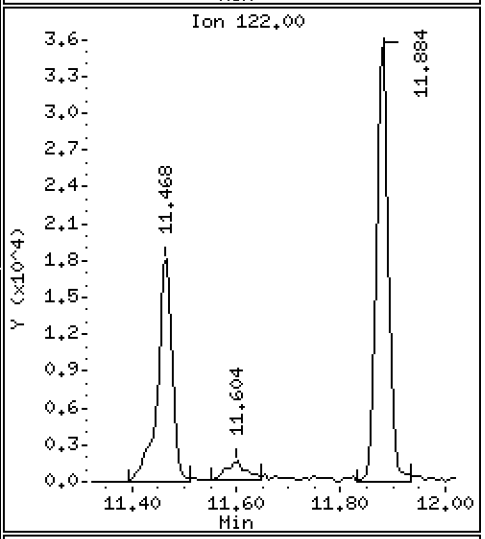
24 Benzoic acid

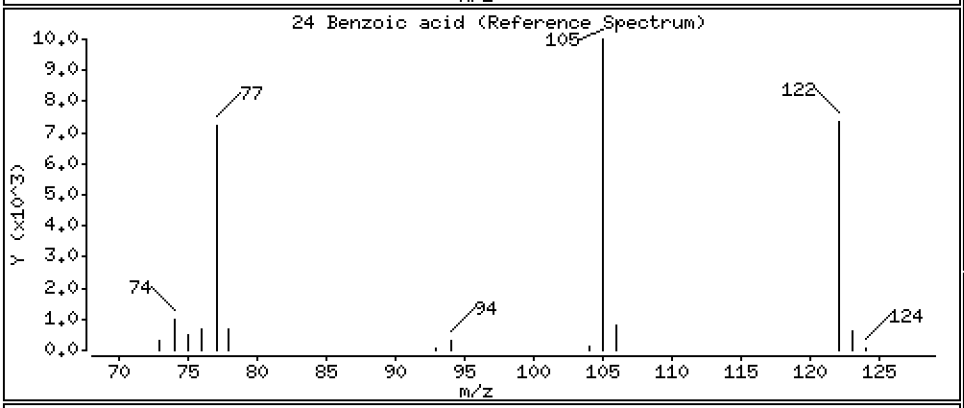
Concentration: 0.1017 ug/mL

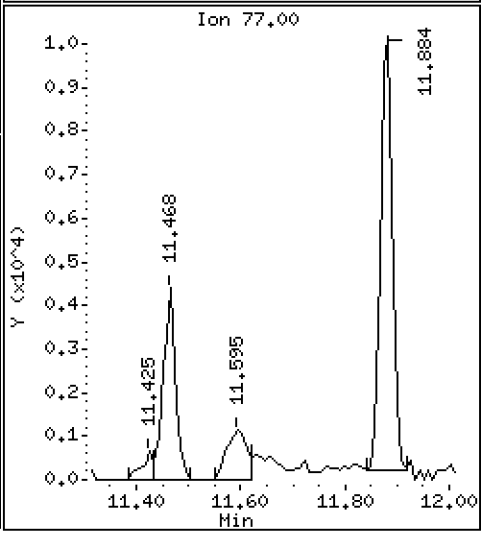


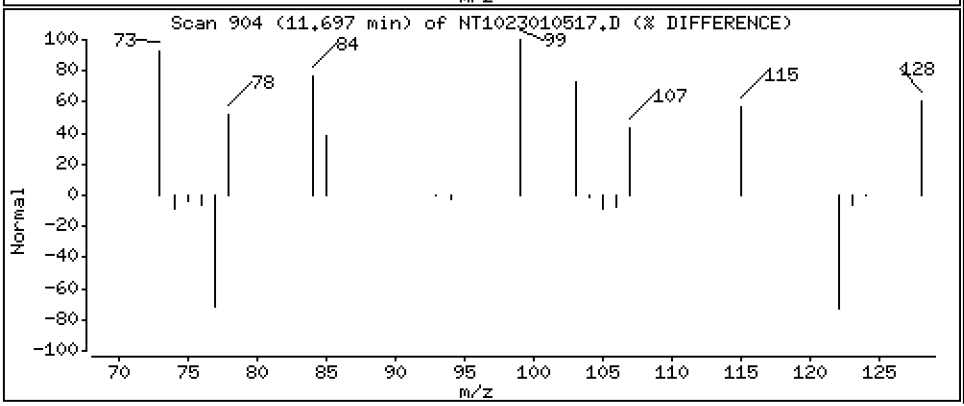












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

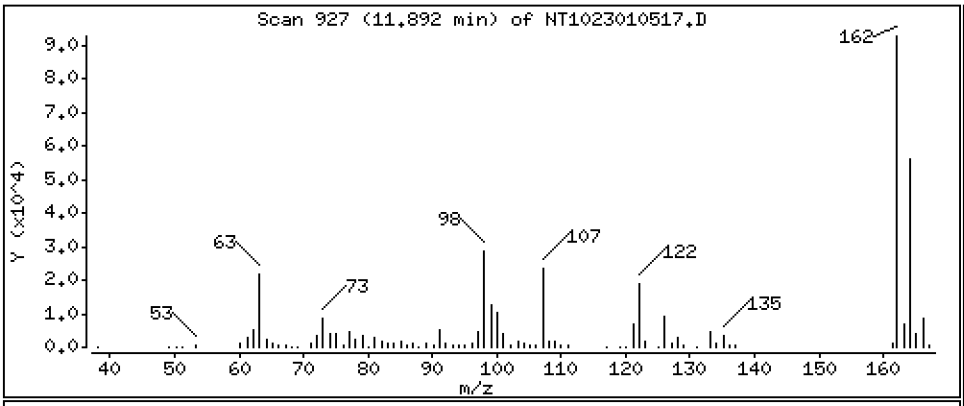
Operator: VTS

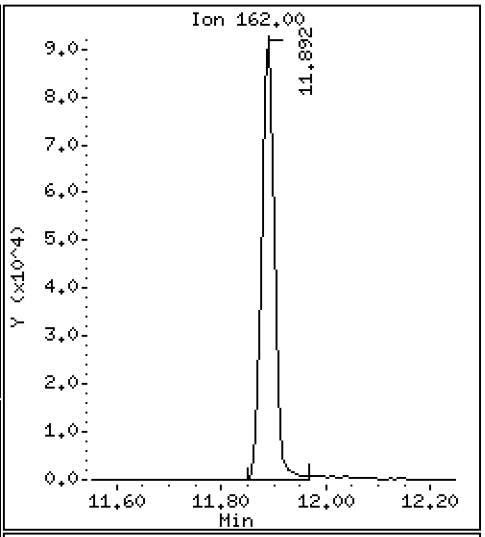
Column phase: ZB-5msi

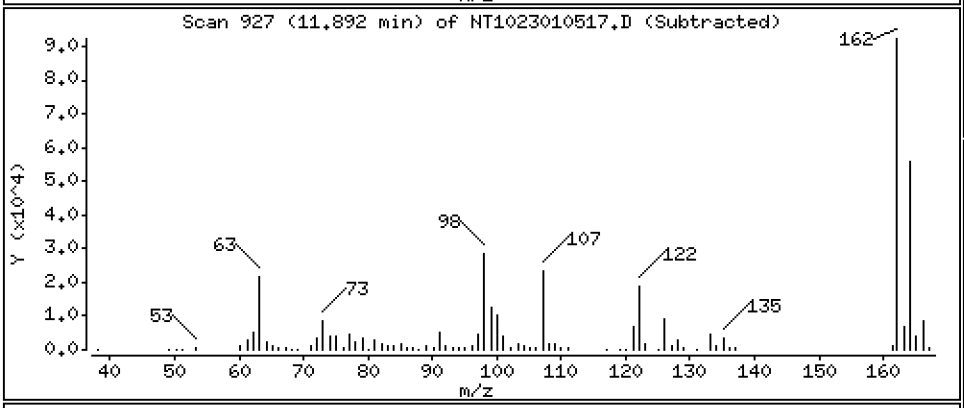
Column diameter: 0.25

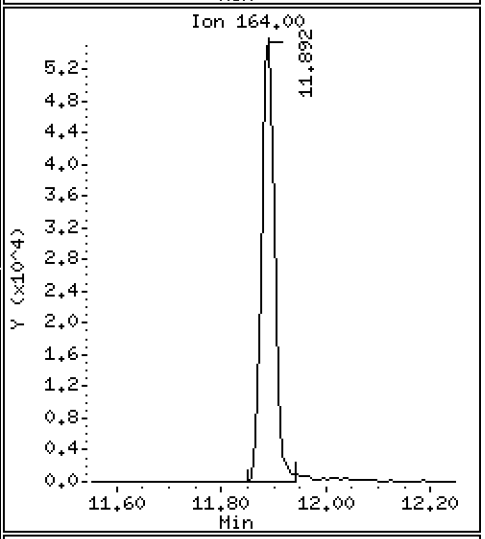
25 2,4-Dichlorophenol

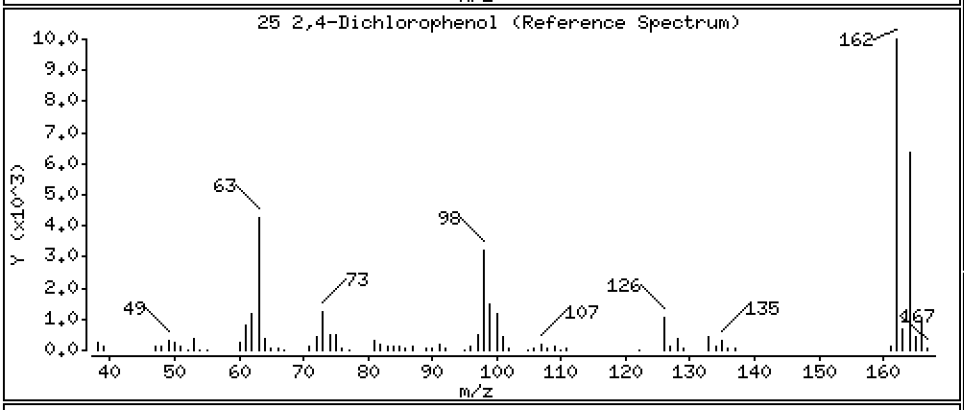
Concentration: 9.270 ug/mL

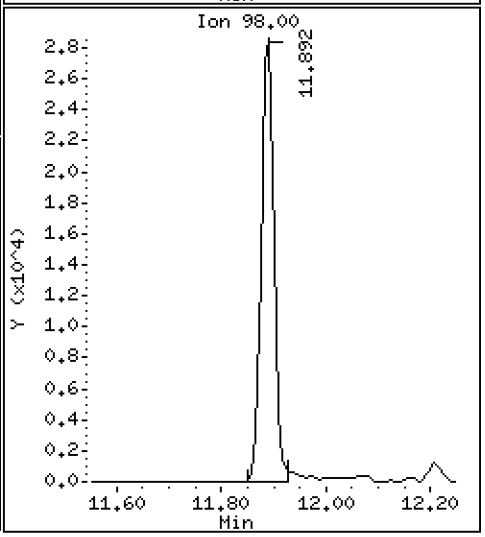


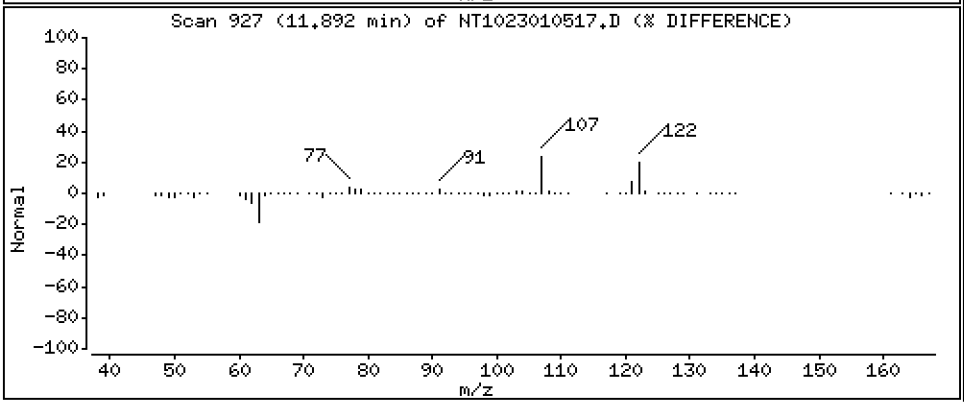












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

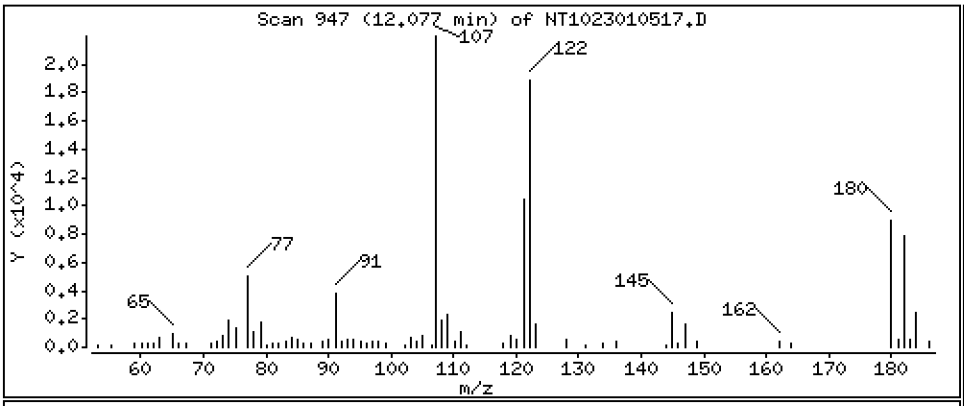
Operator: VTS

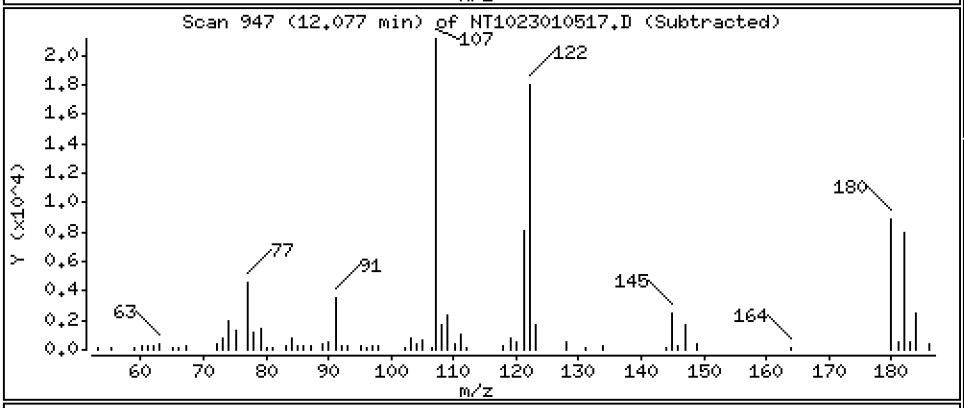
Column phase: ZB-5msi

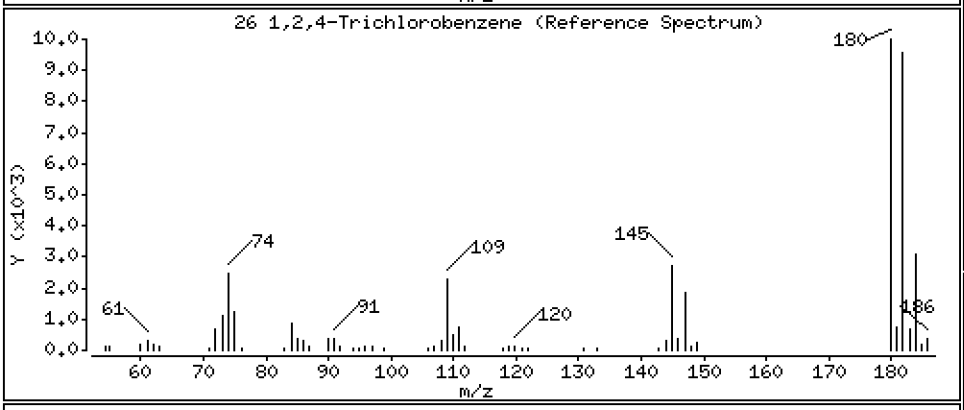
Column diameter: 0.25

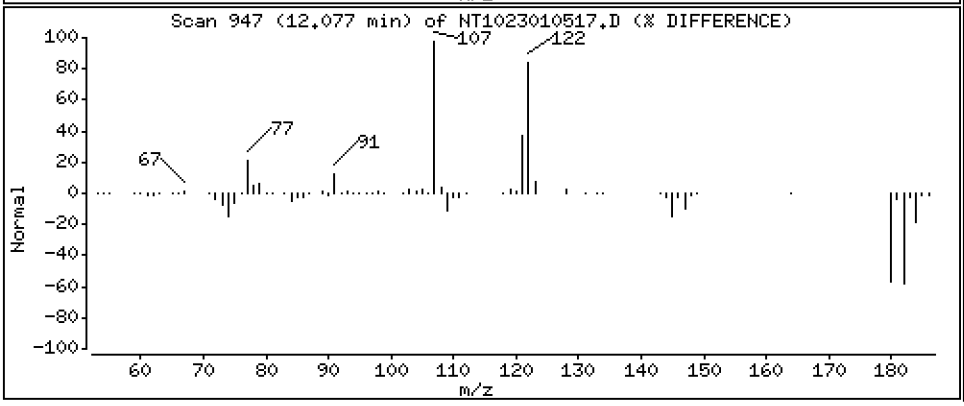
26 1,2,4-Trichlorobenzene

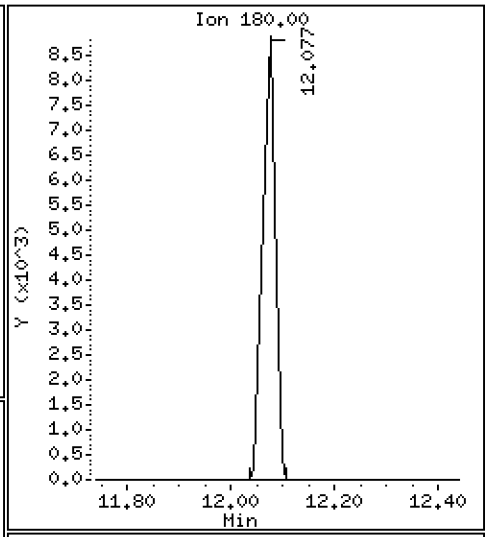
Concentration: 0.8633 ug/mL

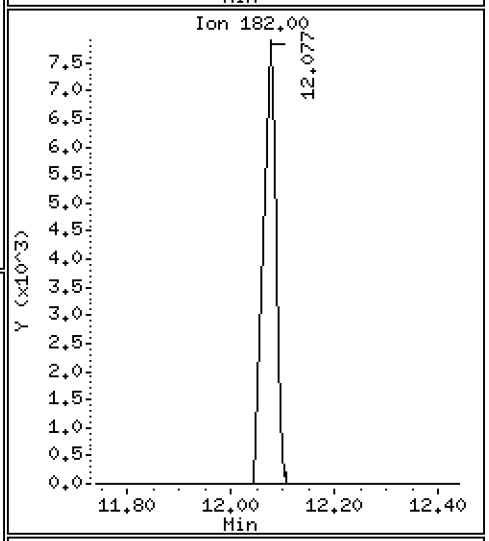


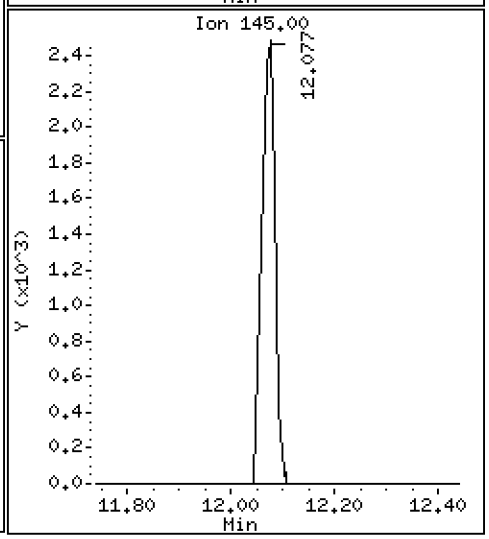












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

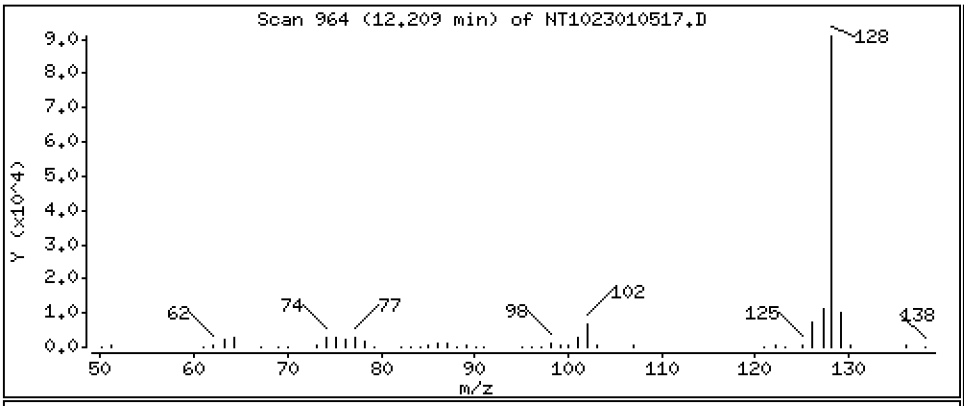
Operator: VTS

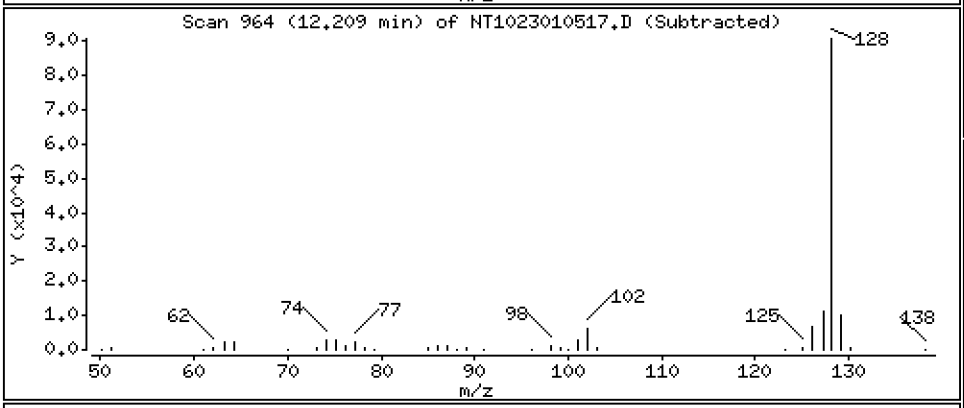
Column phase: ZB-5msi

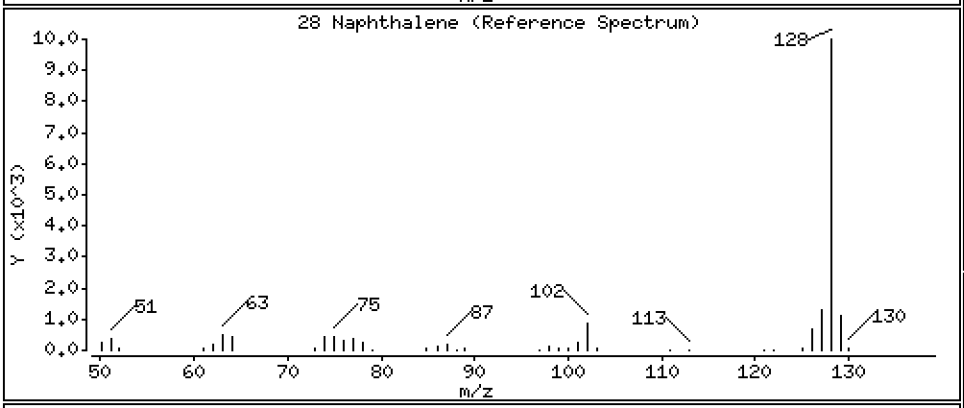
Column diameter: 0.25

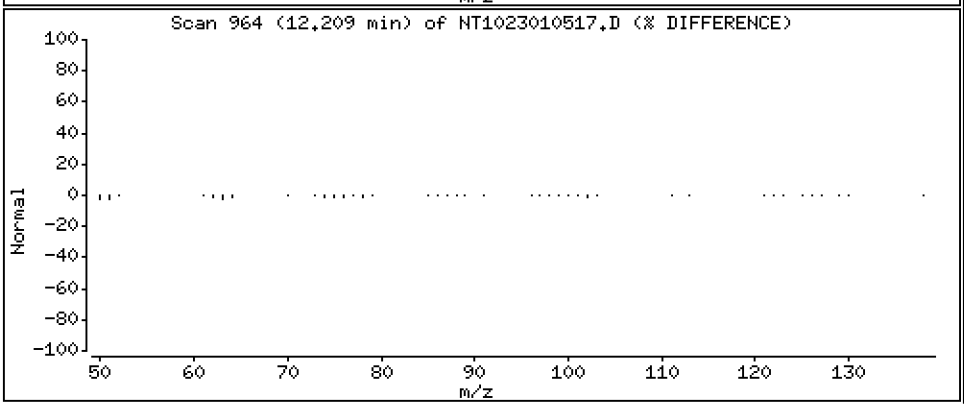
28 Naphthalene

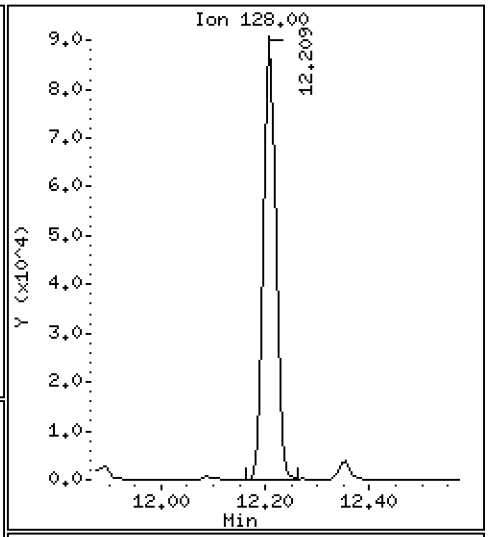
Concentration: 2.299 ug/mL

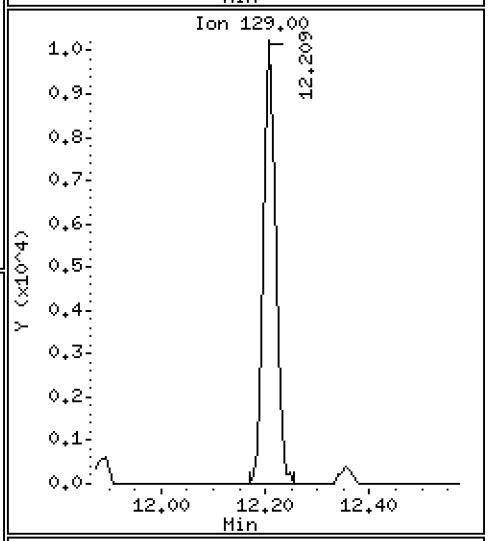


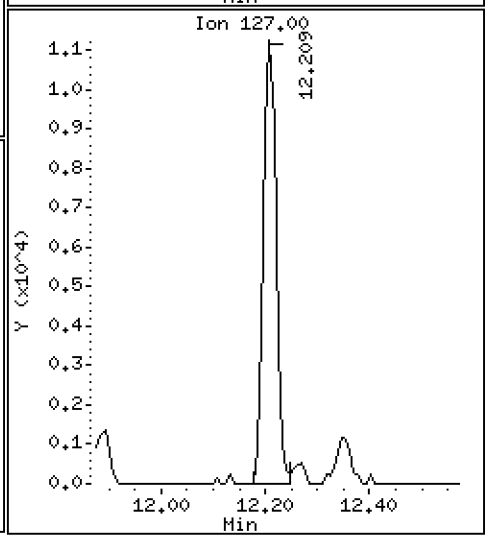












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

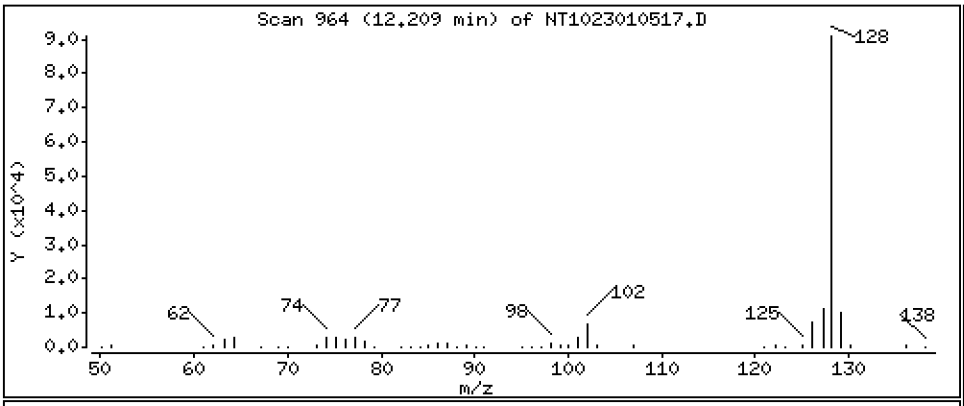
Operator: VTS

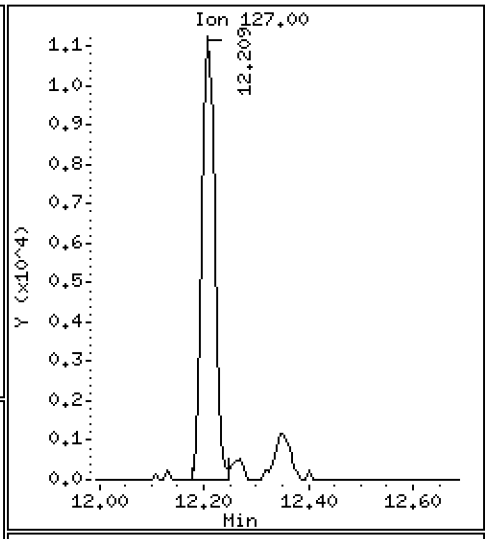
Column phase: ZB-5msi

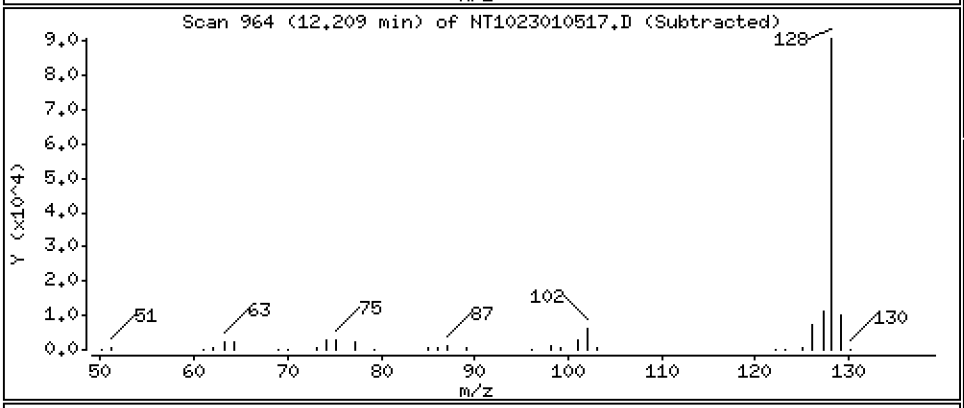
Column diameter: 0.25

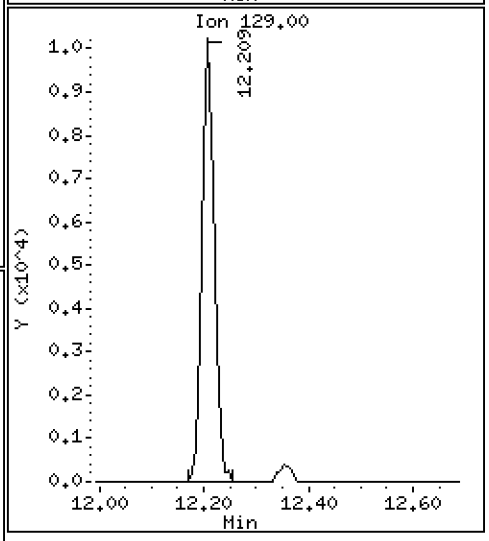
29 4-Chloroaniline

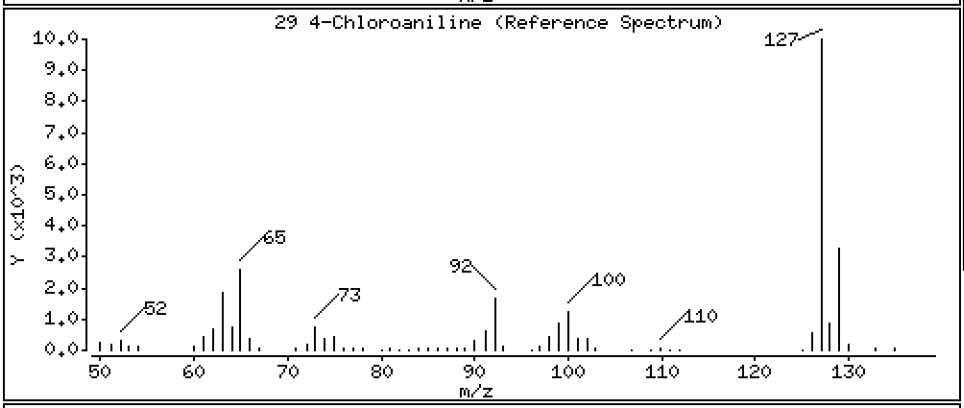
Concentration: 0.7670 ug/mL

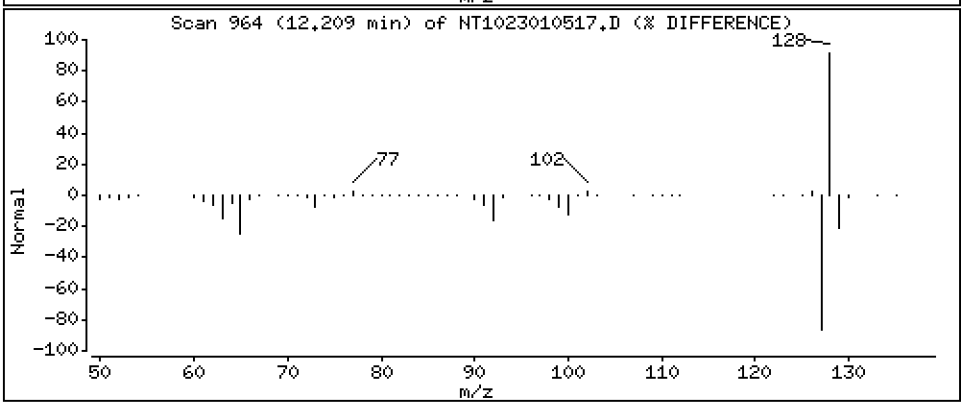












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

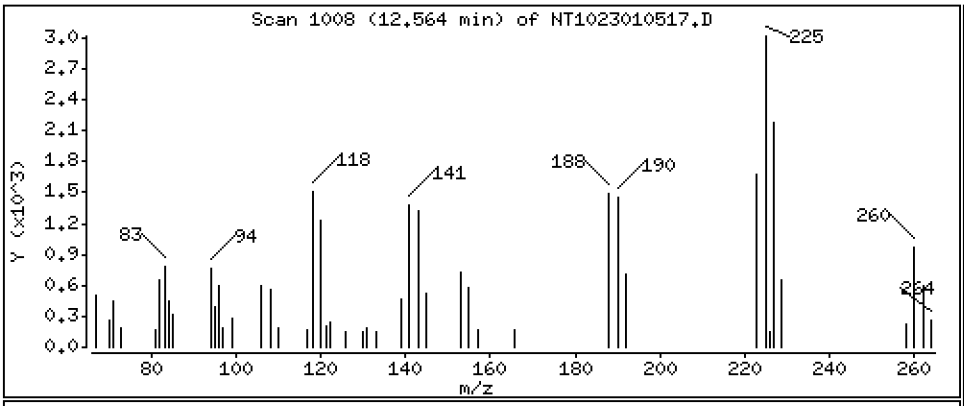
Operator: VTS

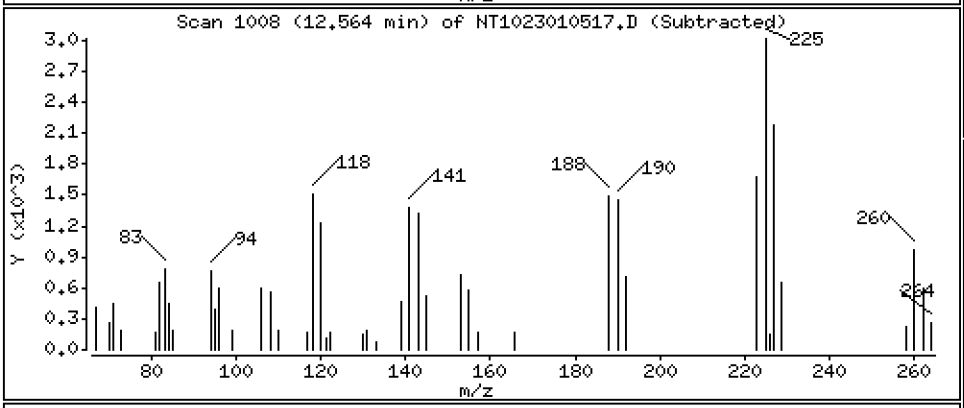
Column phase: ZB-5msi

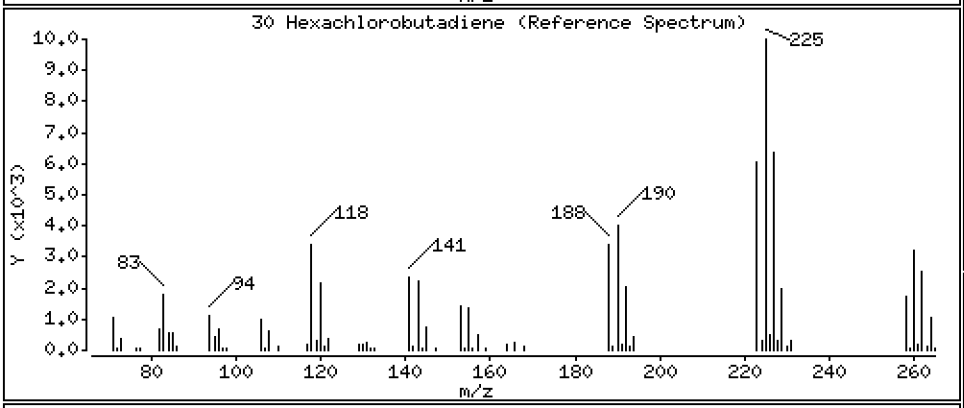
Column diameter: 0.25

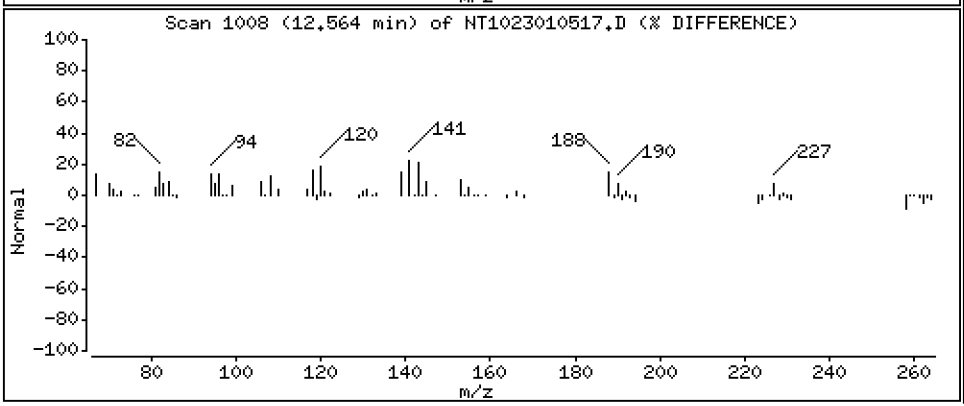
30 Hexachlorobutadiene

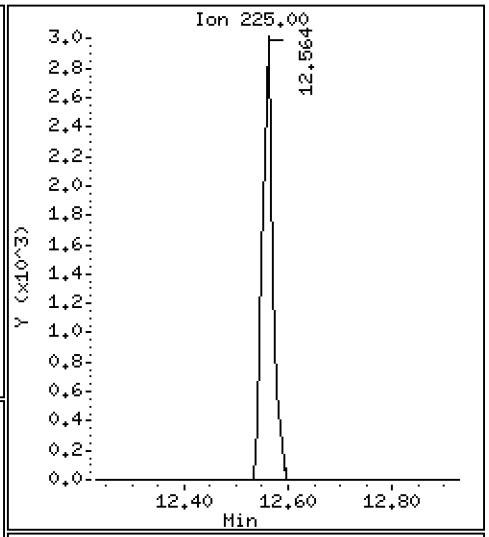
Concentration: 0.6503 ug/mL

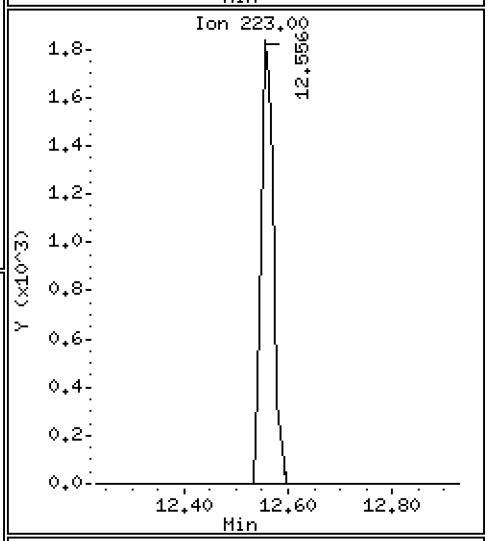


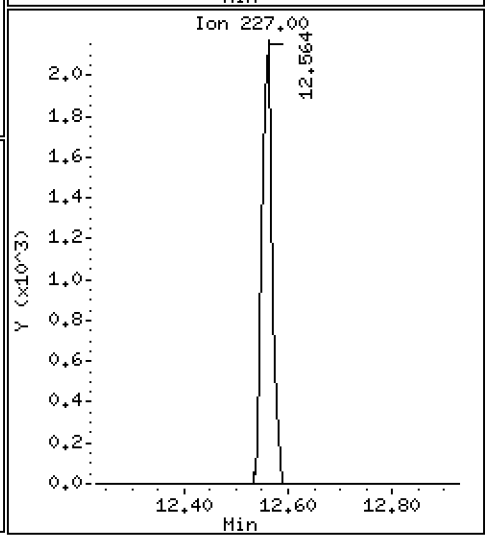












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

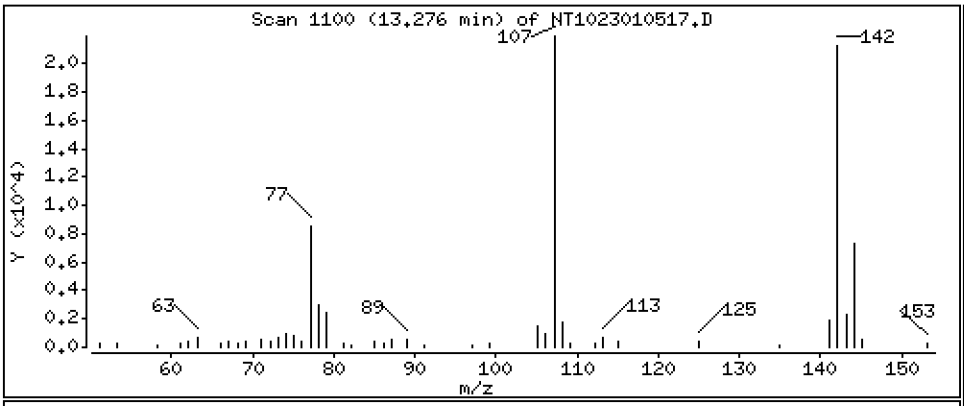
Operator: VTS

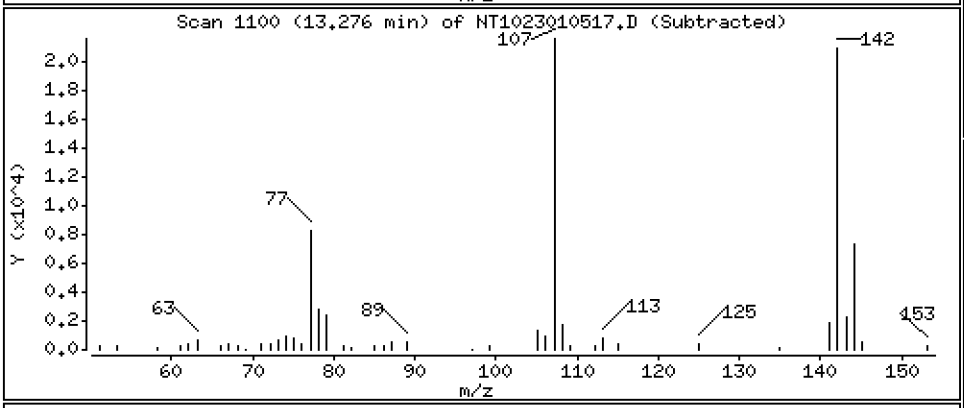
Column phase: ZB-5msi

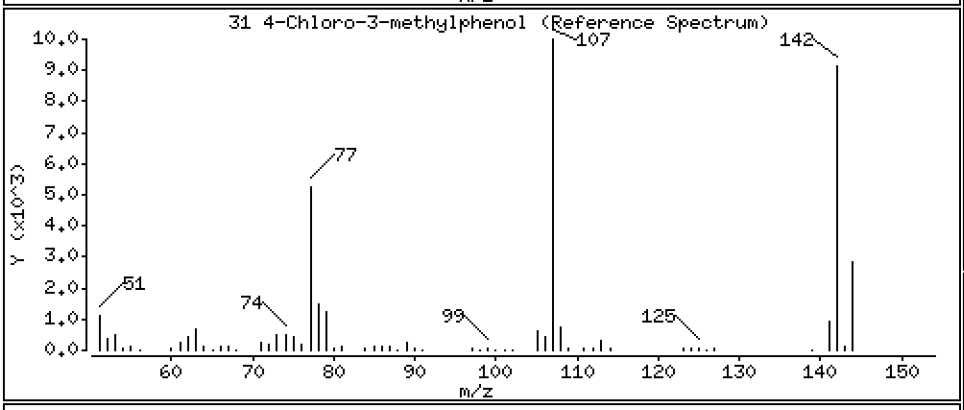
Column diameter: 0.25

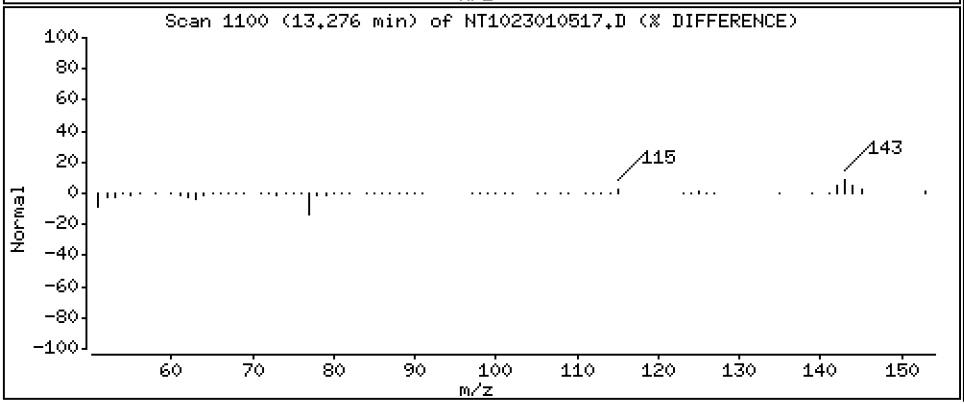
31 4-Chloro-3-methylphenol

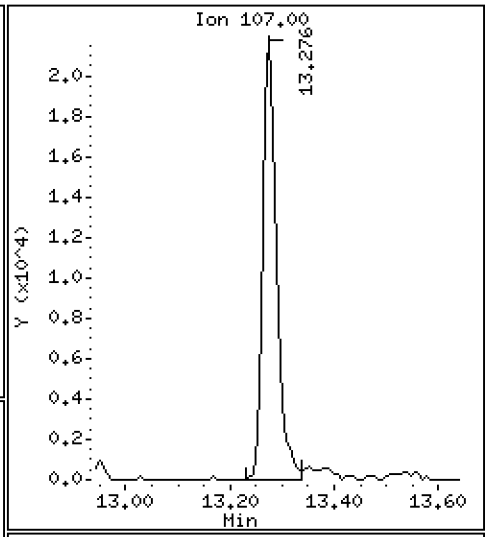
Concentration: 2.270 ug/mL

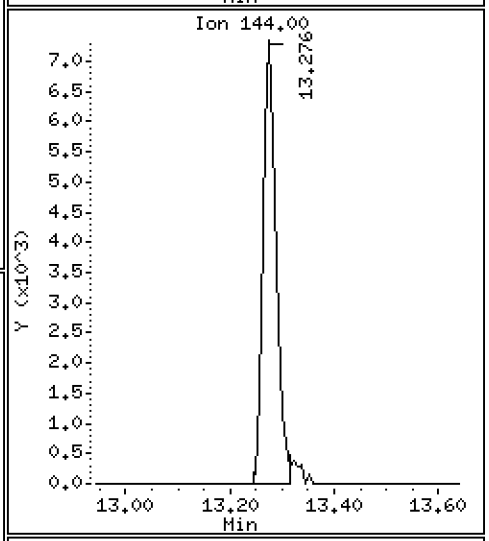


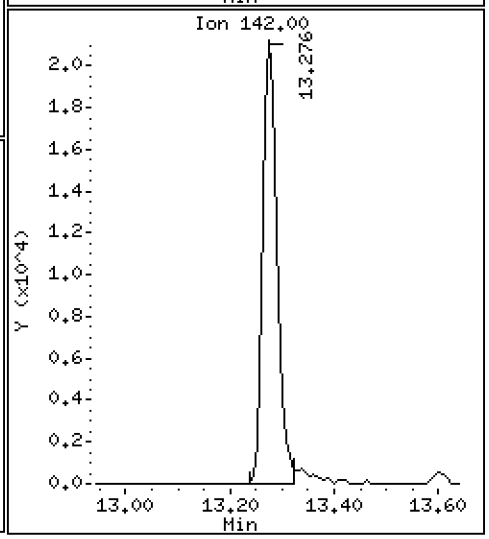












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

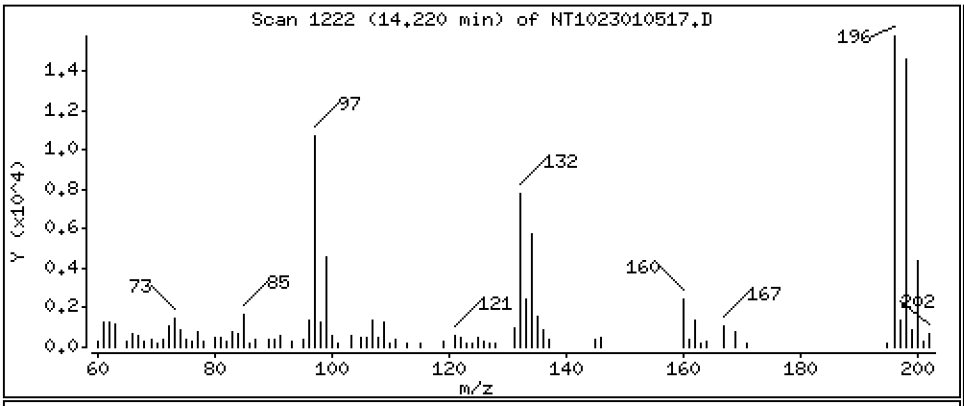
Operator: VTS

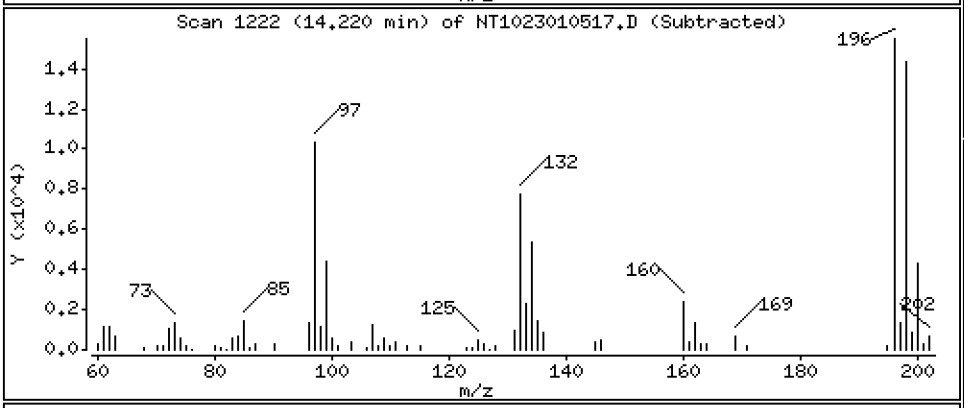
Column phase: ZB-5msi

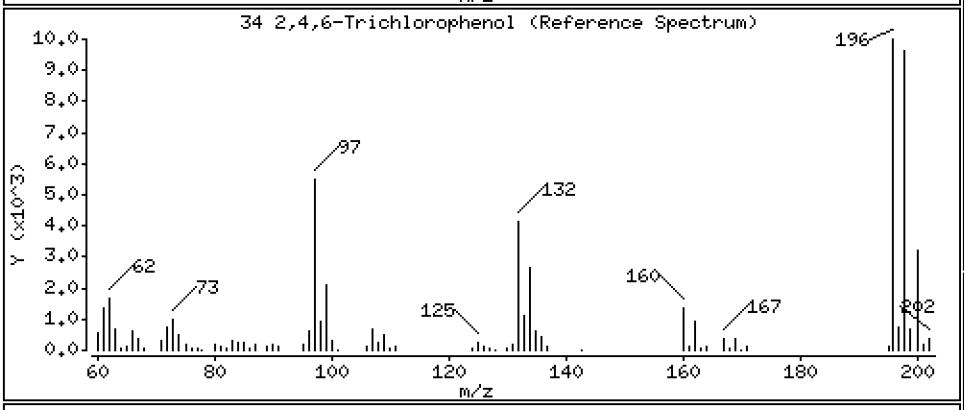
Column diameter: 0.25

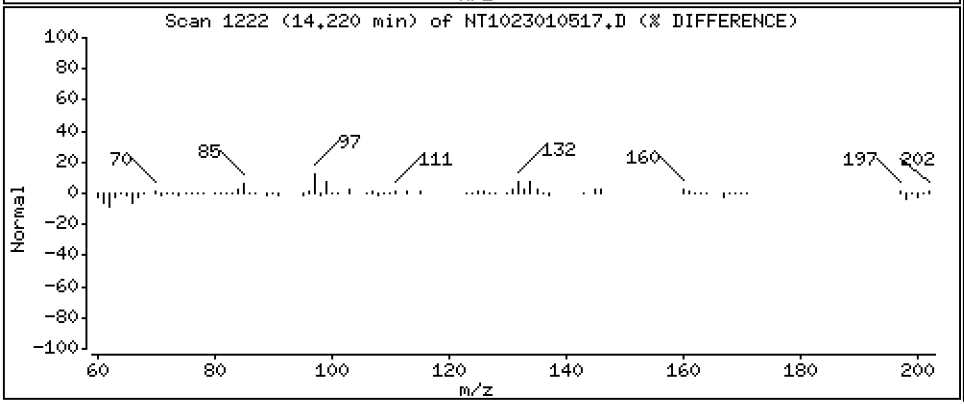
34 2,4,6-Trichlorophenol

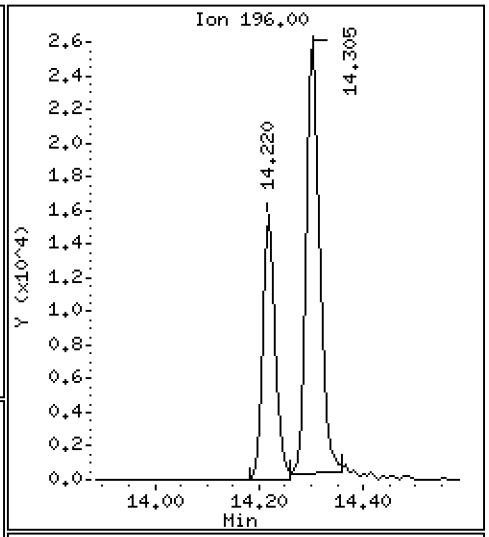
Concentration: 2.749 ug/mL

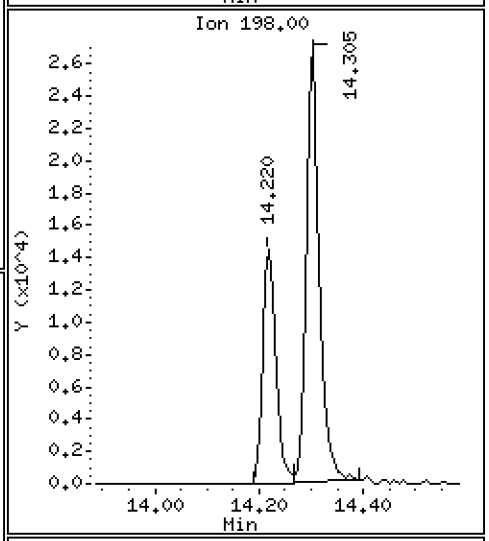


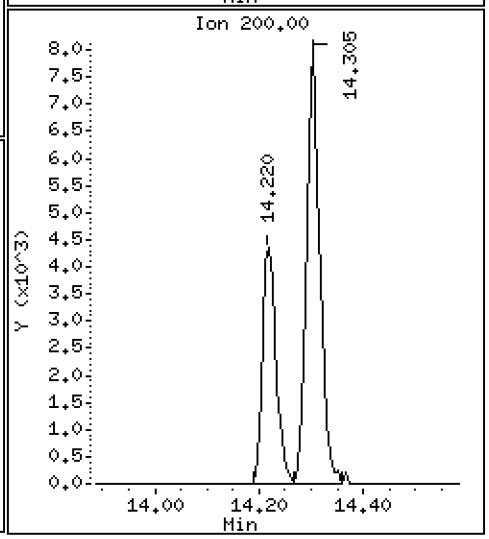












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

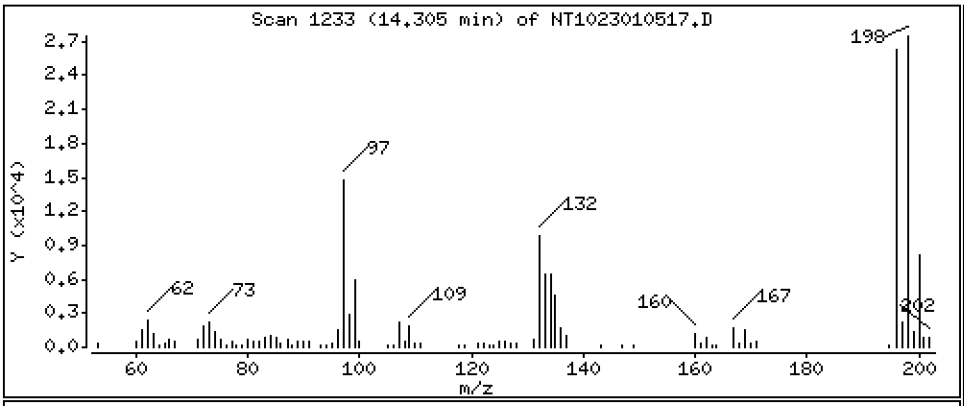
Operator: VTS

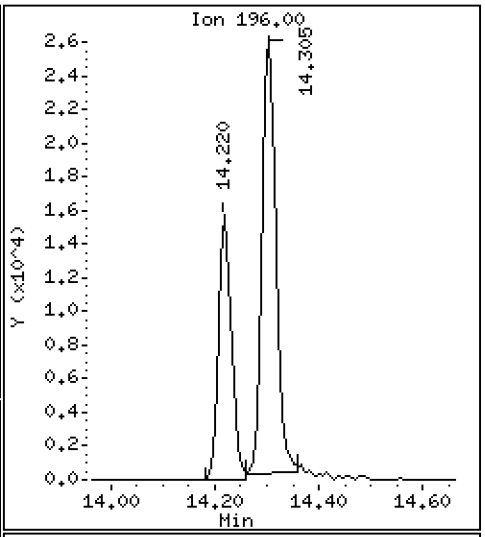
Column phase: ZB-5msi

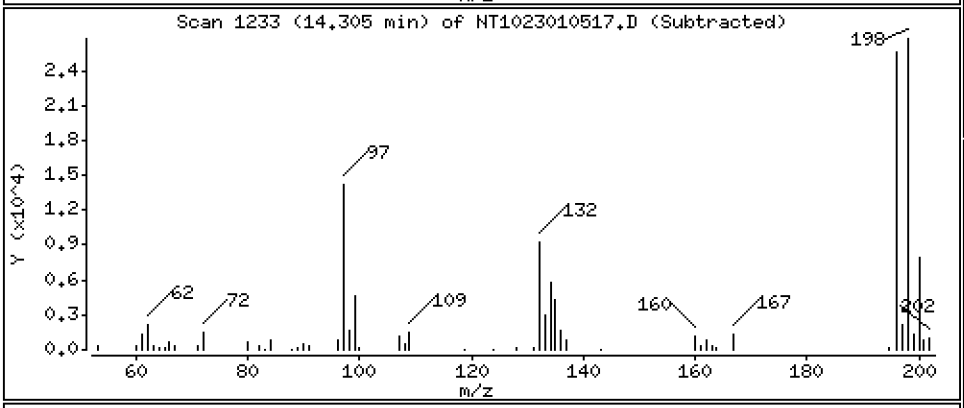
Column diameter: 0.25

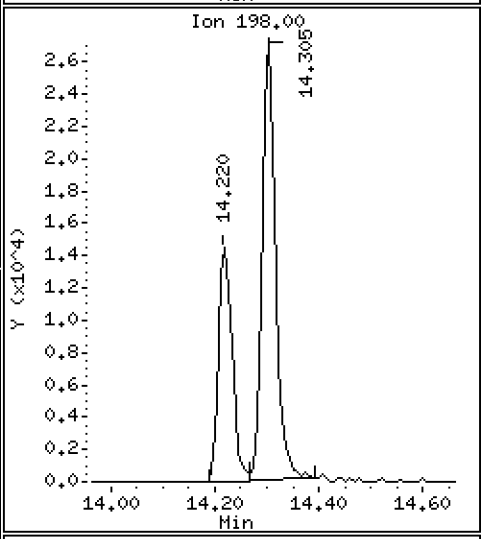
35 2,4,5-Trichlorophenol

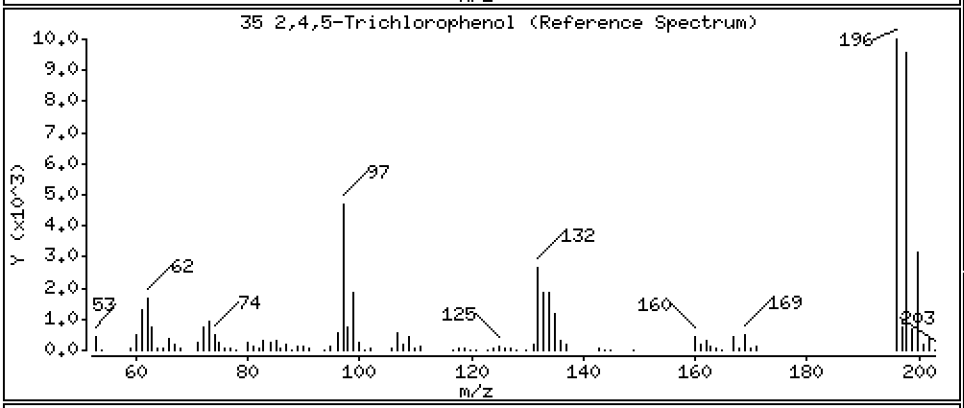
Concentration: 4.314 ug/mL

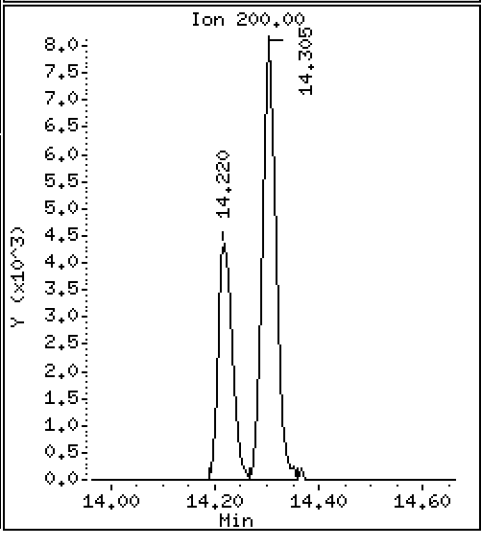


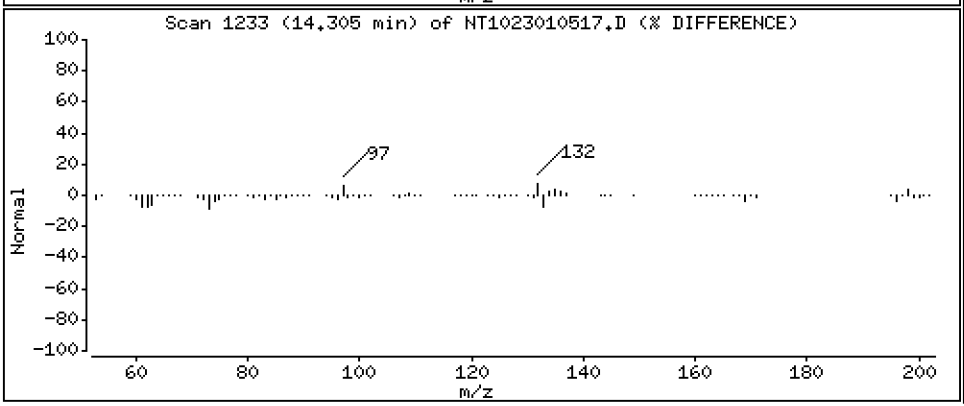












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

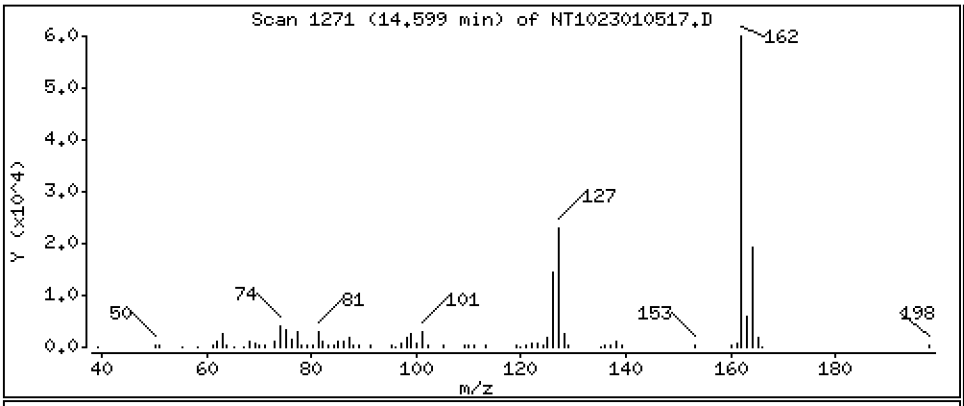
Operator: VTS

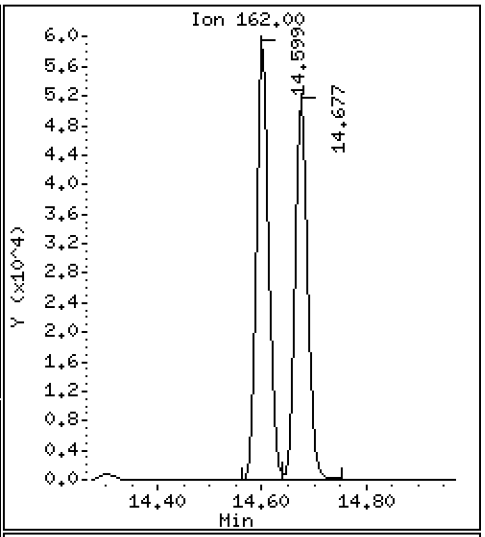
Column phase: ZB-5msi

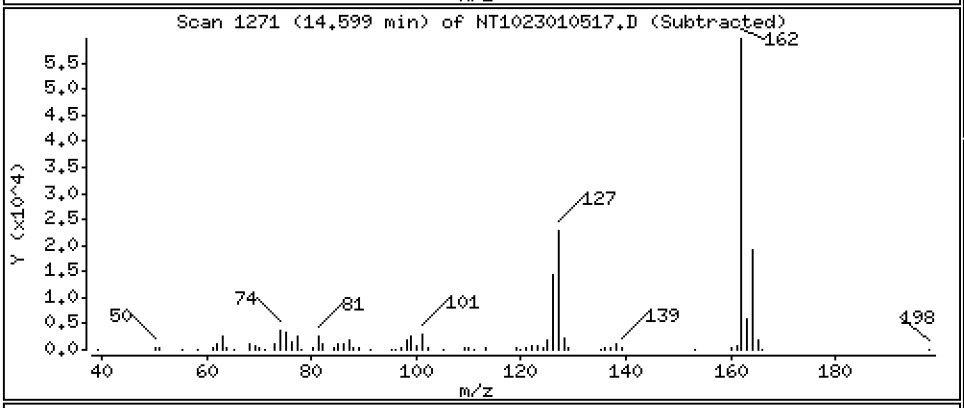
Column diameter: 0.25

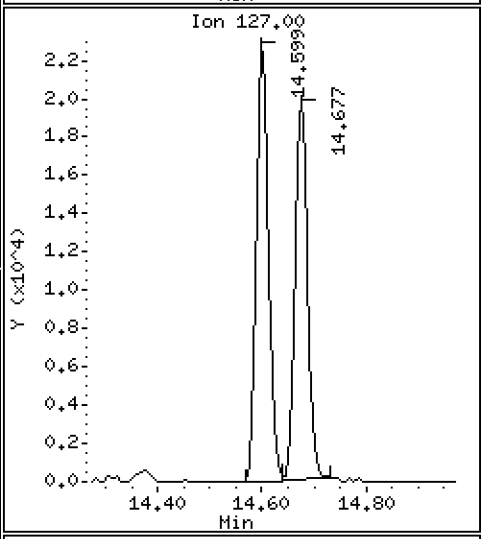
37 2-Chloronaphthalene

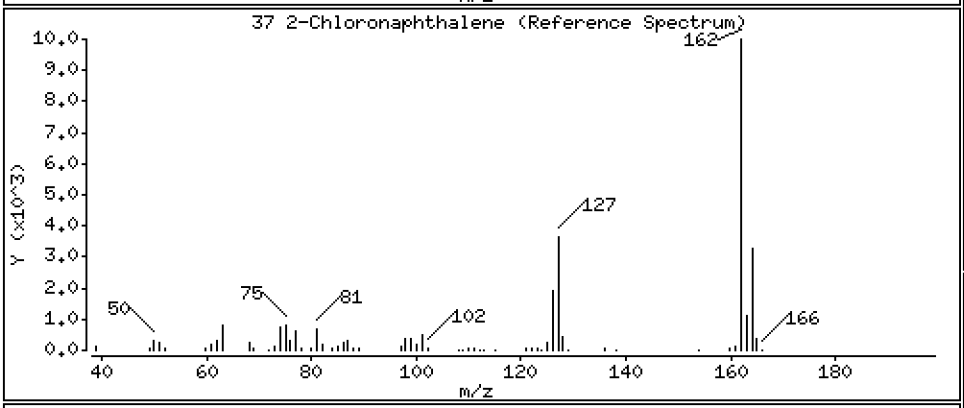
Concentration: 2.541 ug/mL

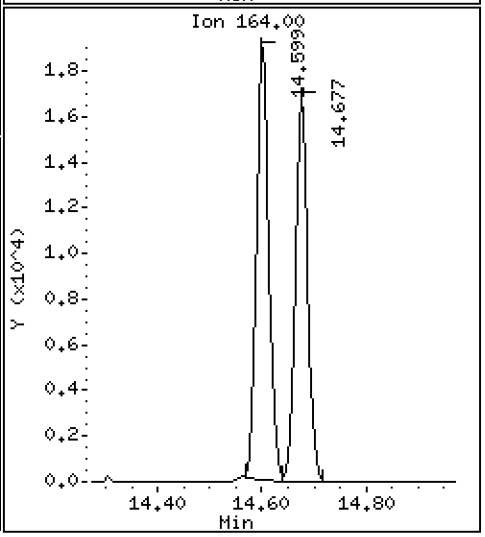


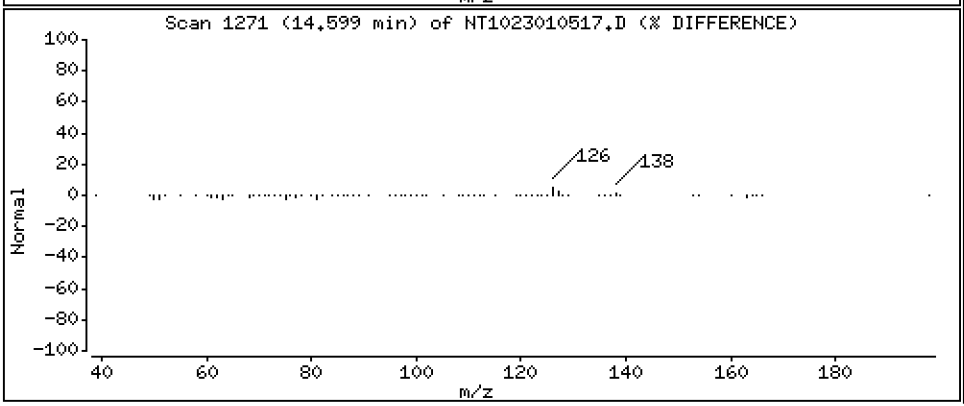












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

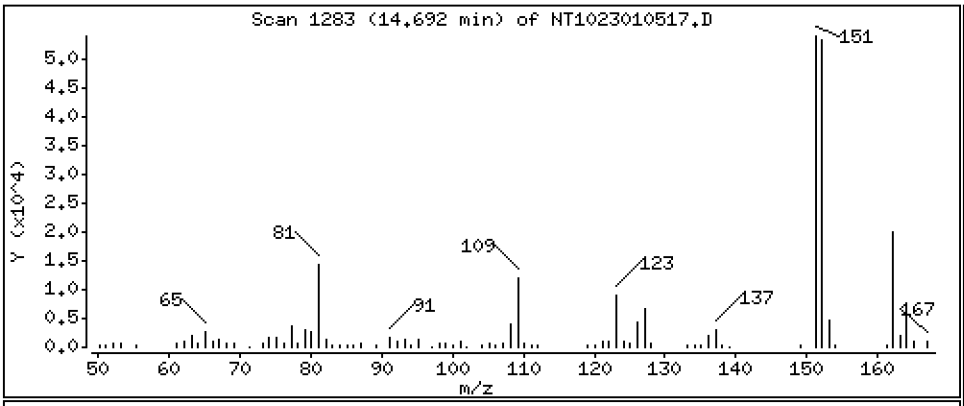
Operator: VTS

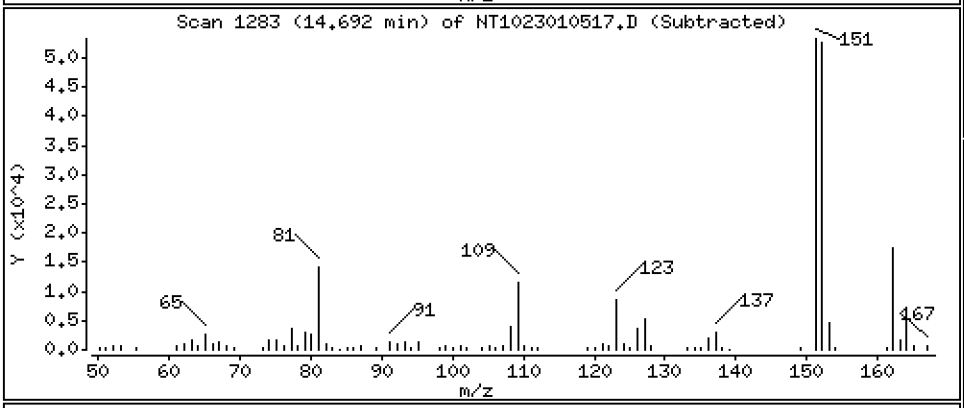
Column phase: ZB-5msi

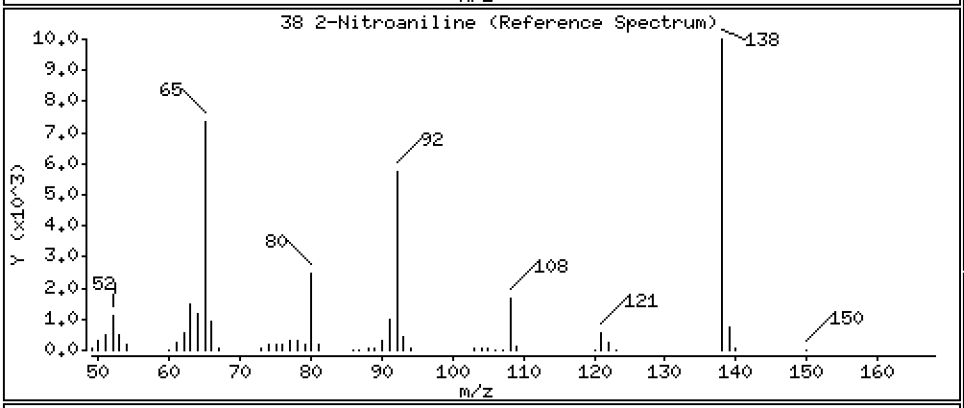
Column diameter: 0.25

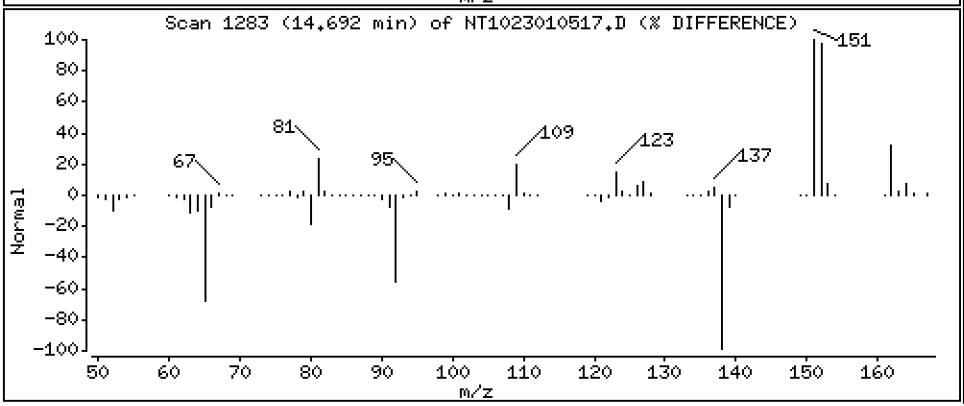
38 2-Nitroaniline

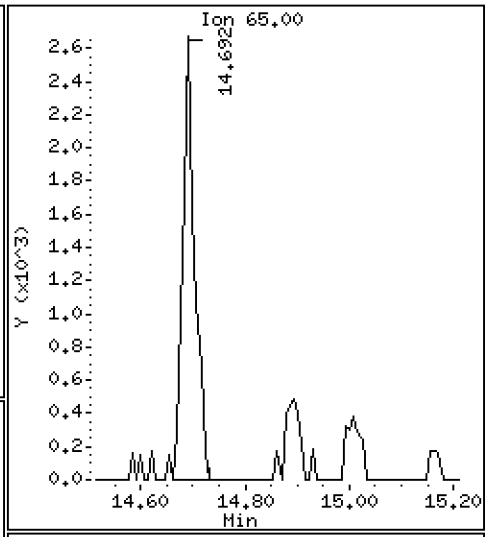
Concentration: 0.8344 ug/mL

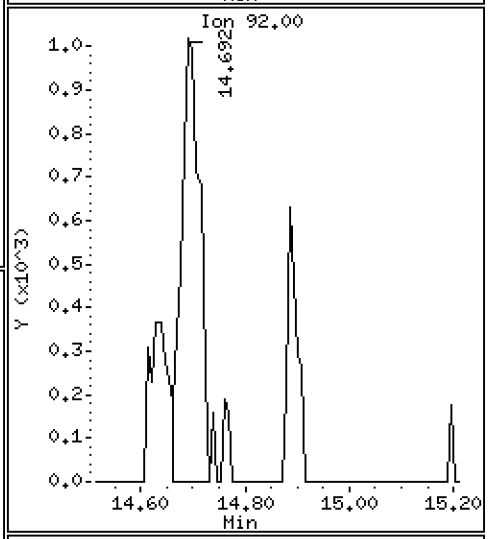


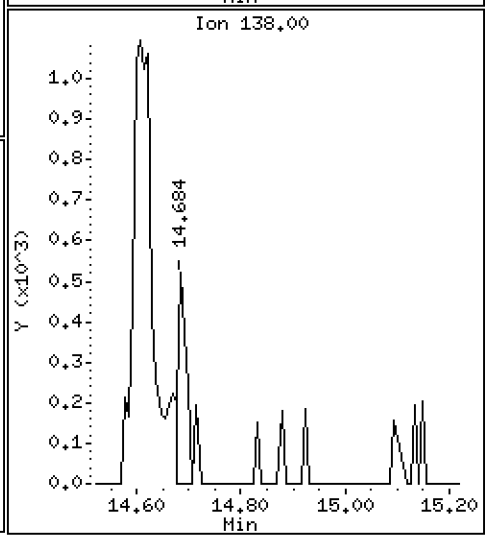












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

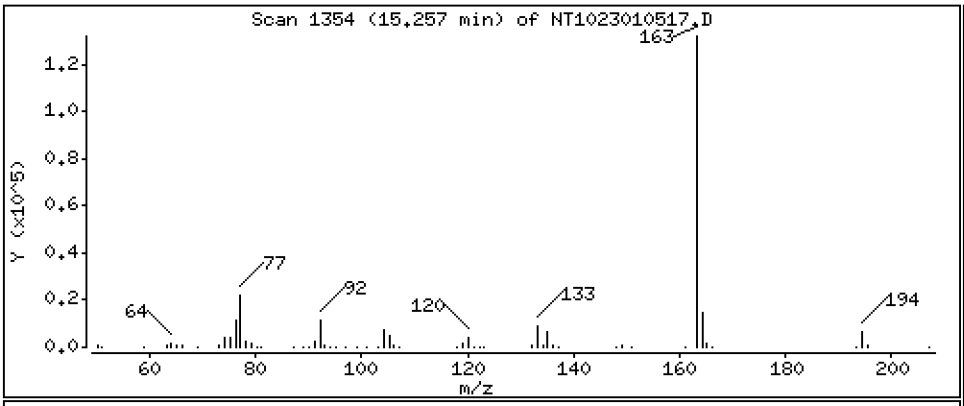
Operator: VTS

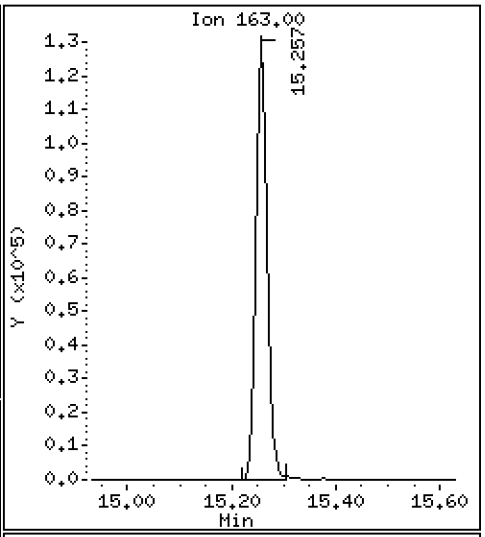
Column phase: ZB-5msi

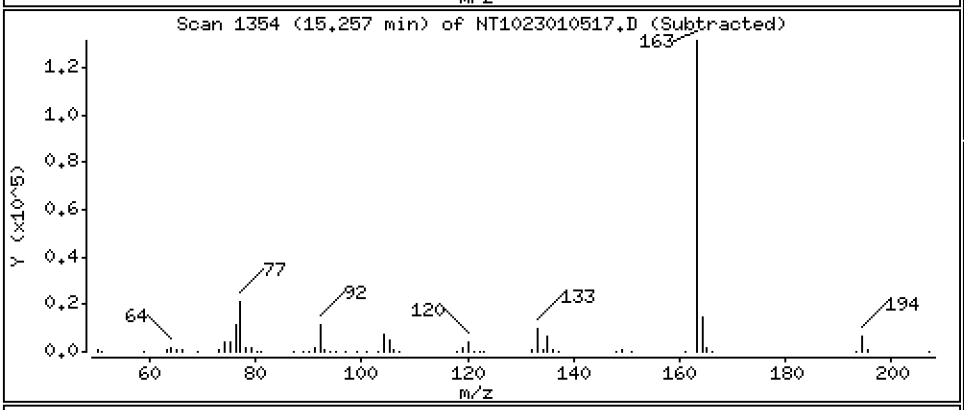
Column diameter: 0.25

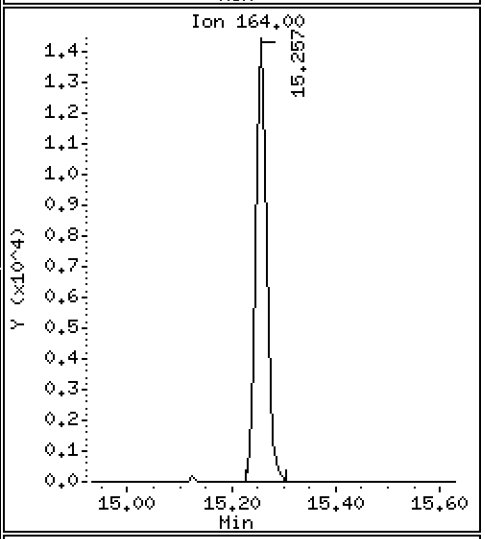
39 Dimethylphthalate

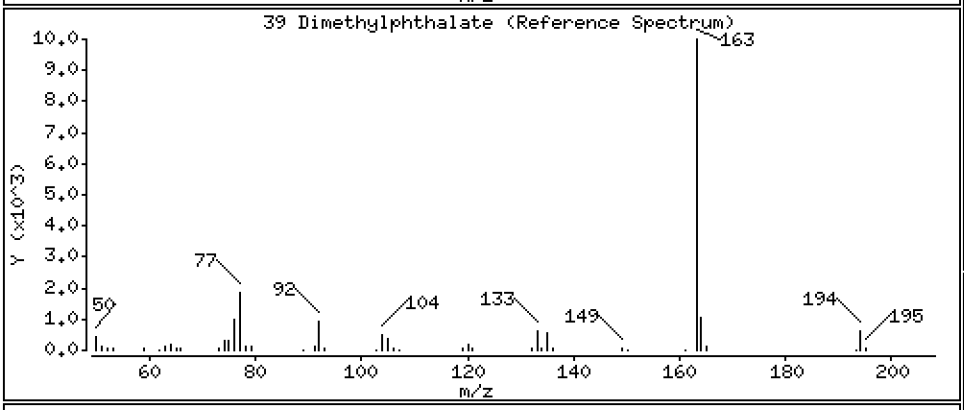
Concentration: 5.849 ug/mL

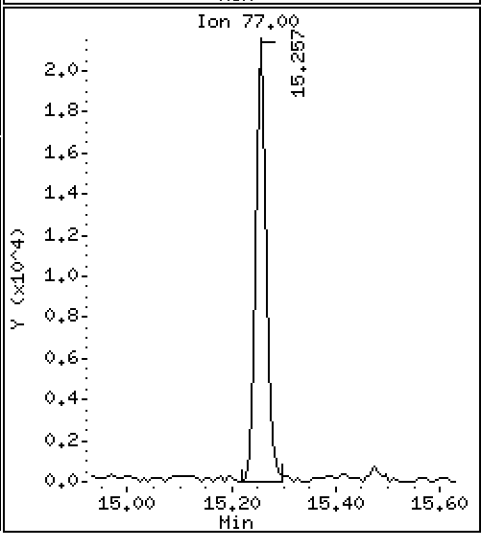


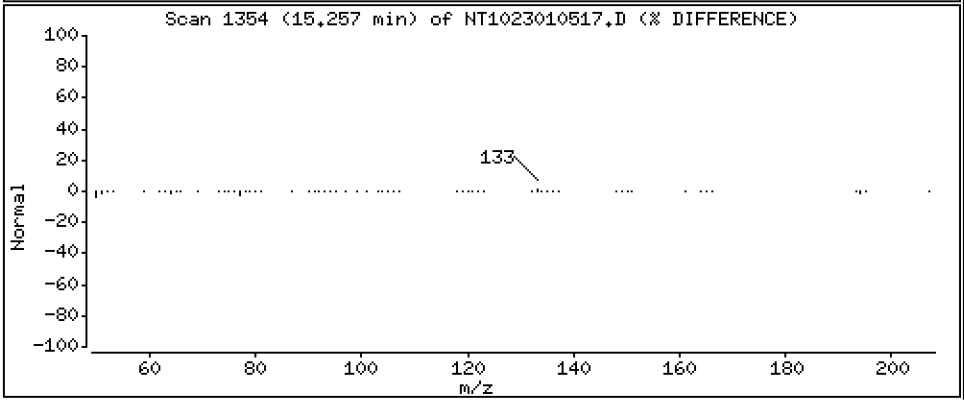












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

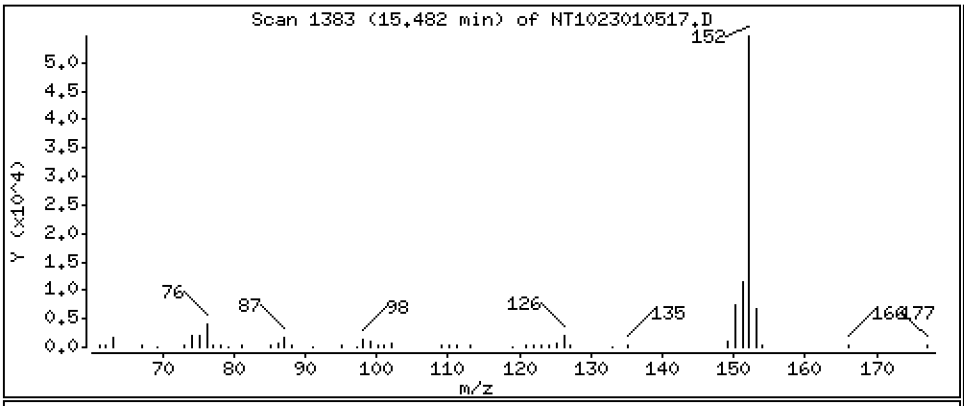
Operator: VTS

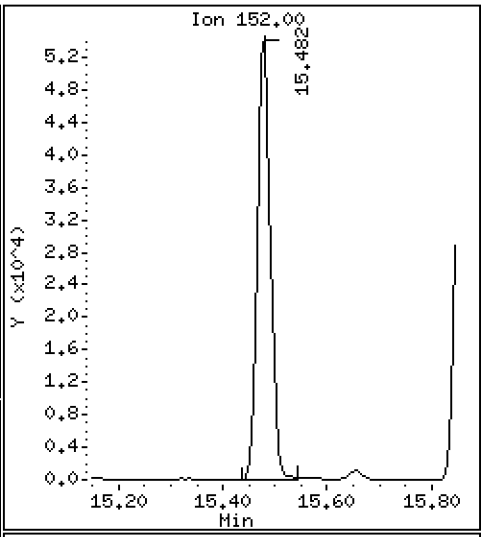
Column phase: ZB-5msi

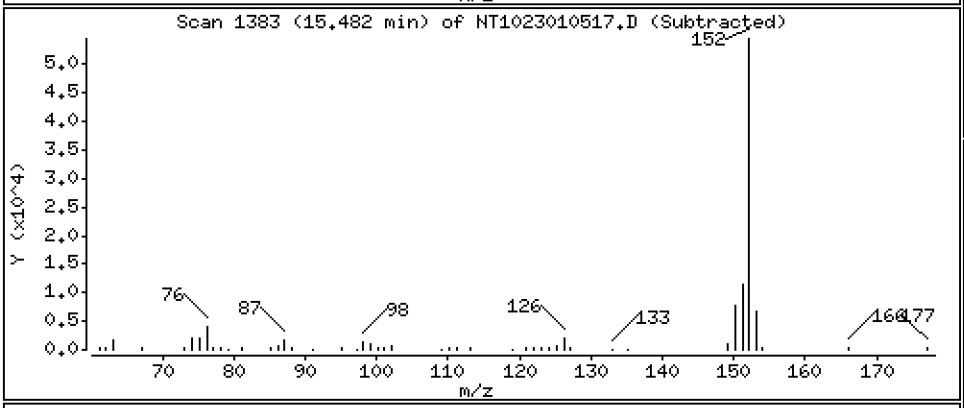
Column diameter: 0.25

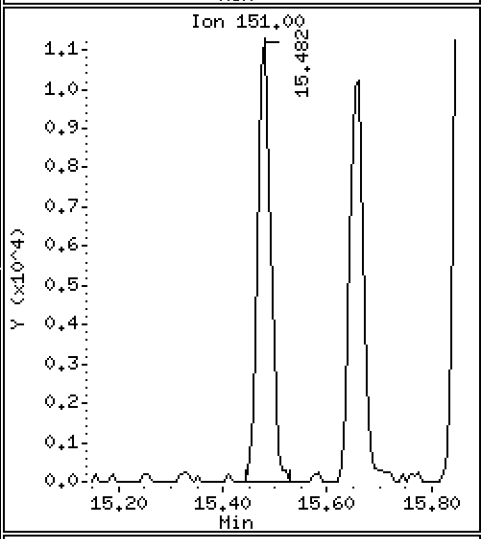
40 Acenaphthylene

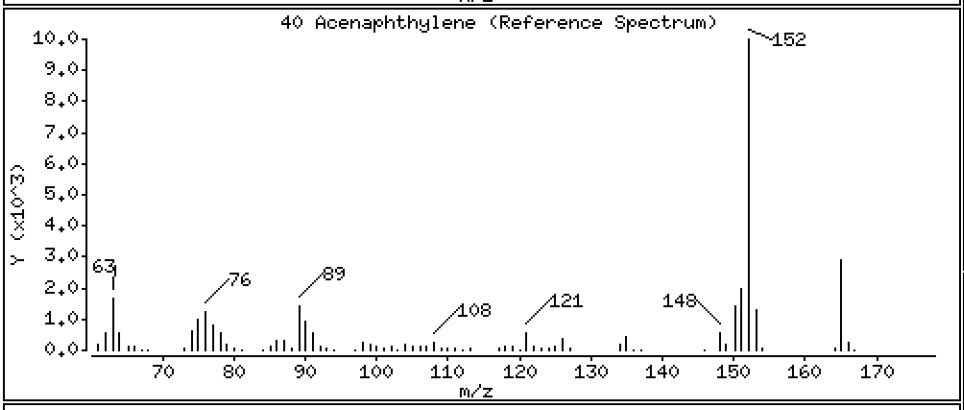
Concentration: 1.719 ug/mL

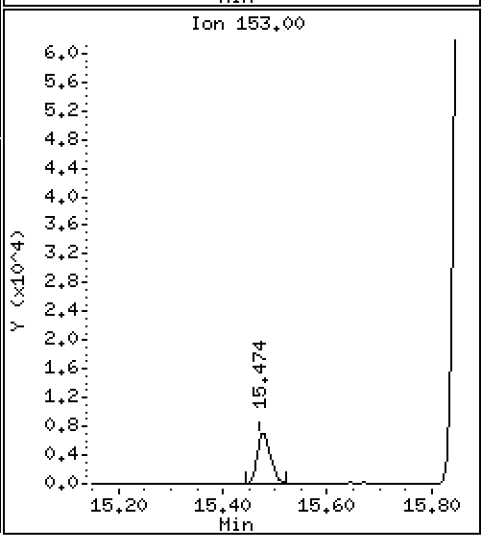


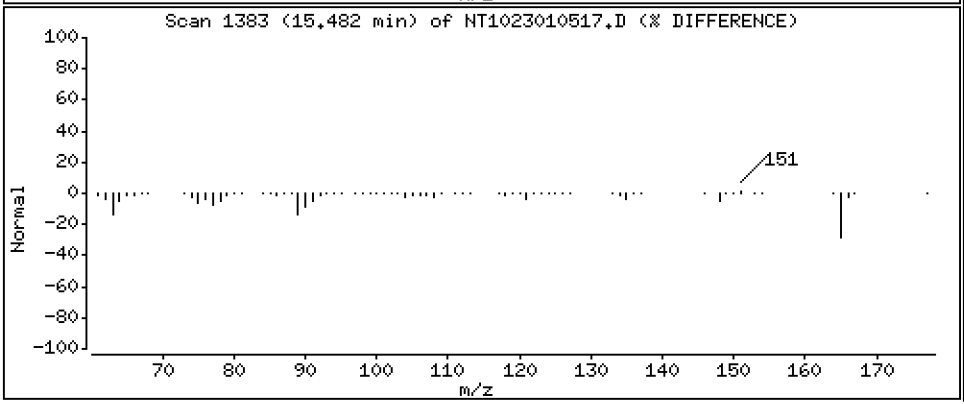












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

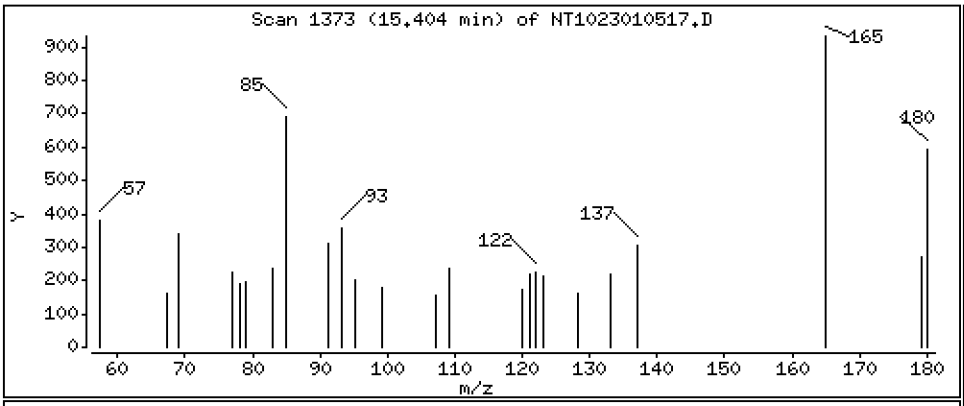
Operator: VTS

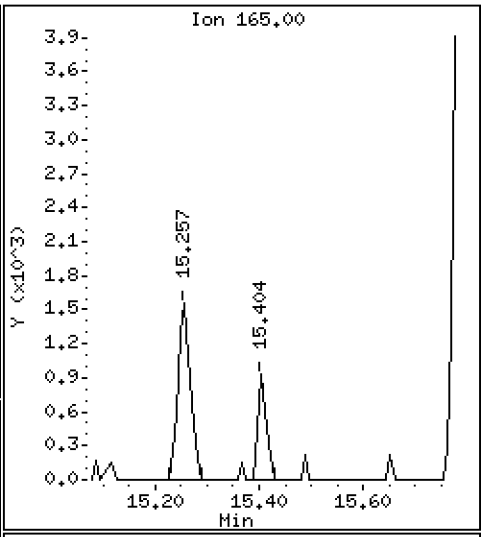
Column phase: ZB-5msi

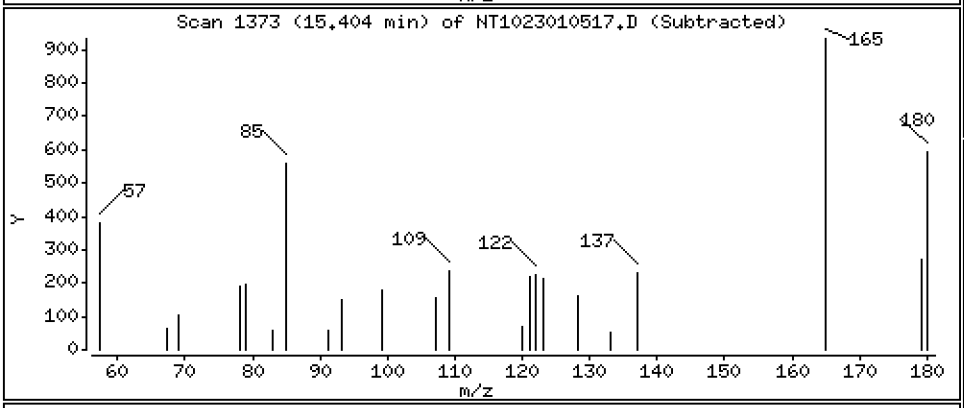
Column diameter: 0.25

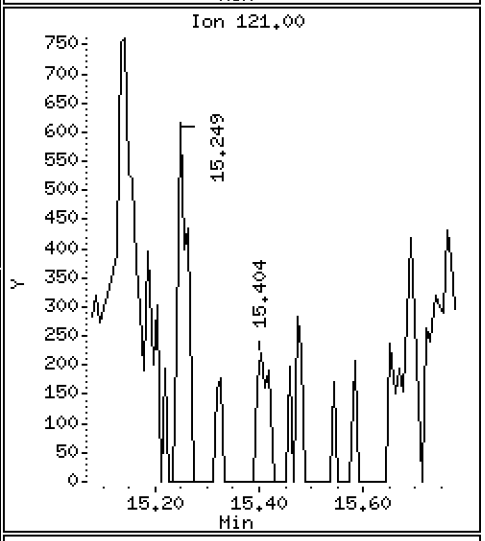
41 2,6-Dinitrotoluene

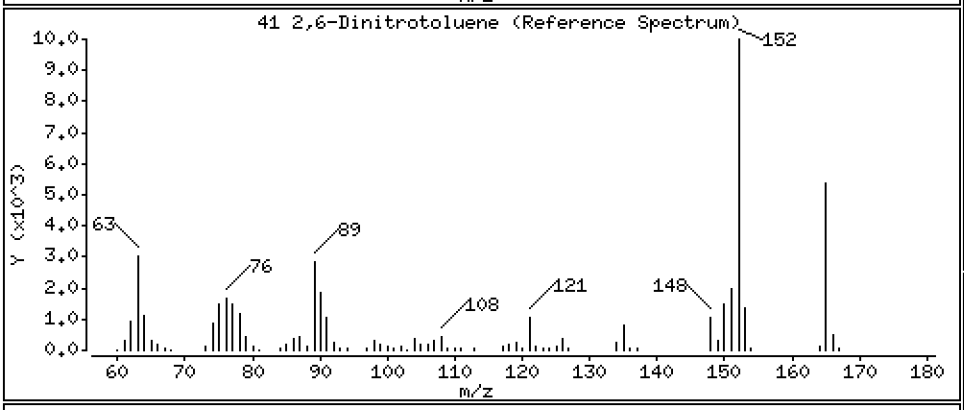
Concentration: 0.1362 ug/mL

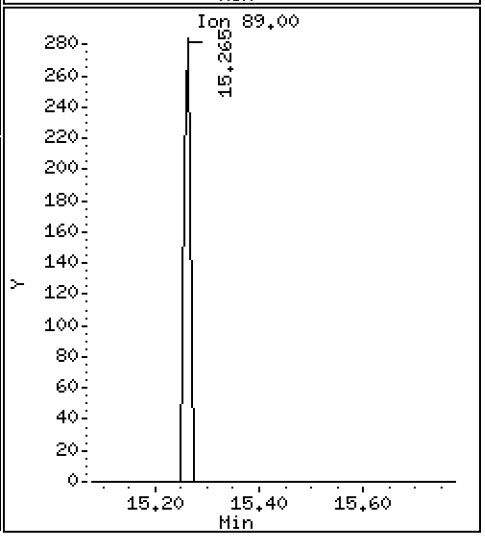


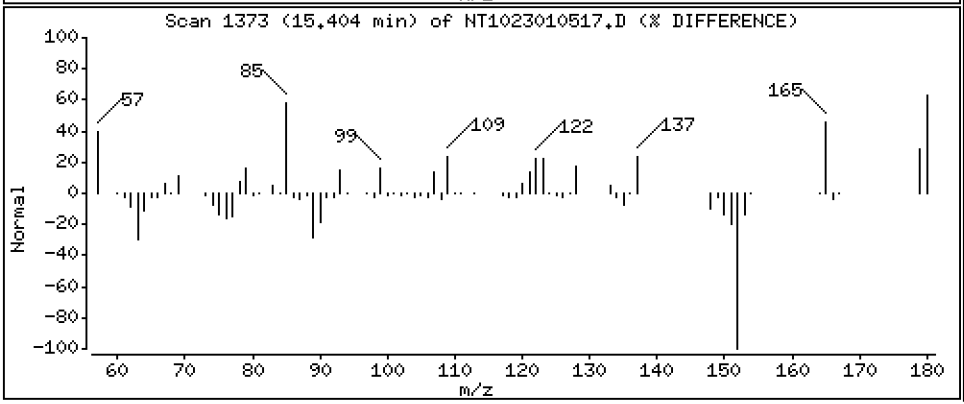












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

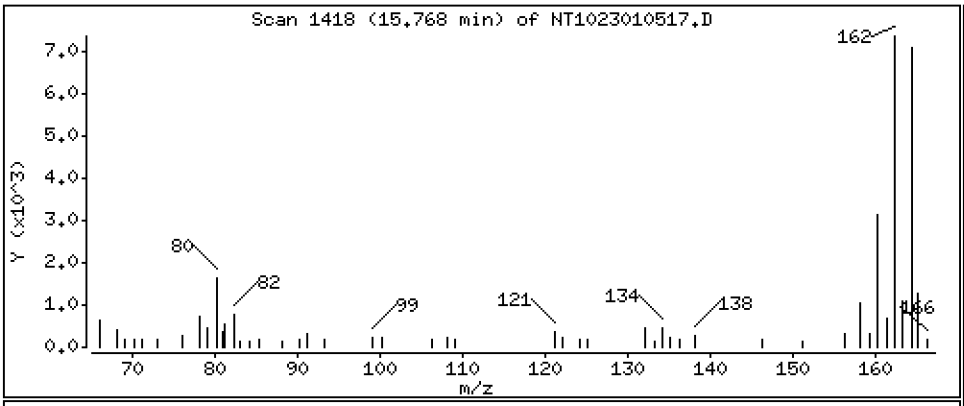
Operator: VTS

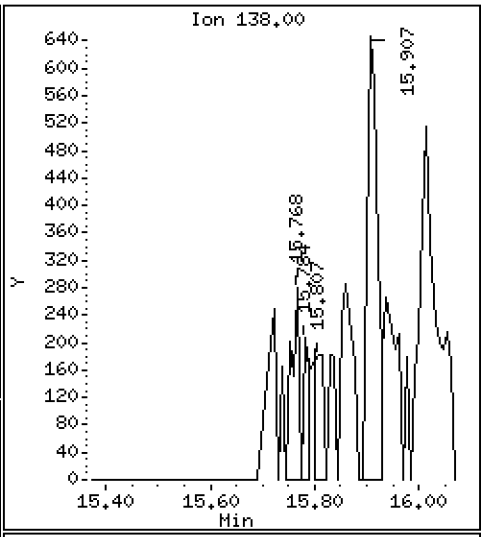
Column phase: ZB-5msi

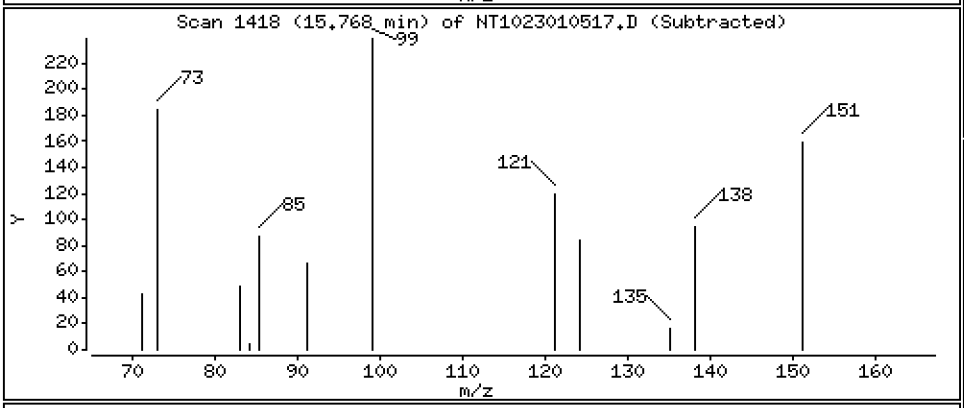
Column diameter: 0.25

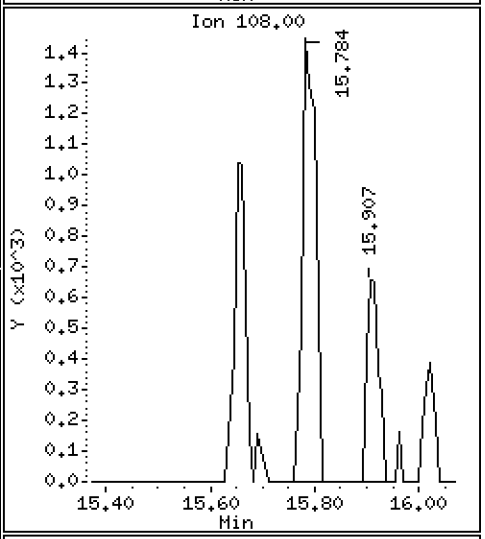
43 3-Nitroaniline

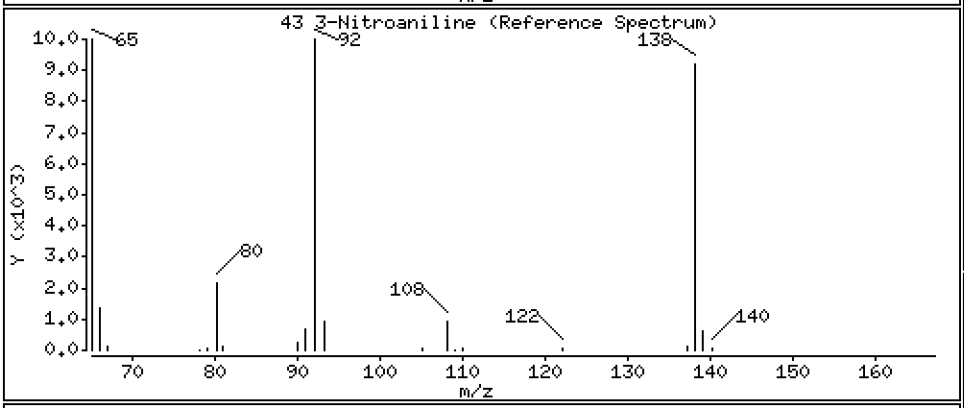
Concentration: 0.05394 ug/mL

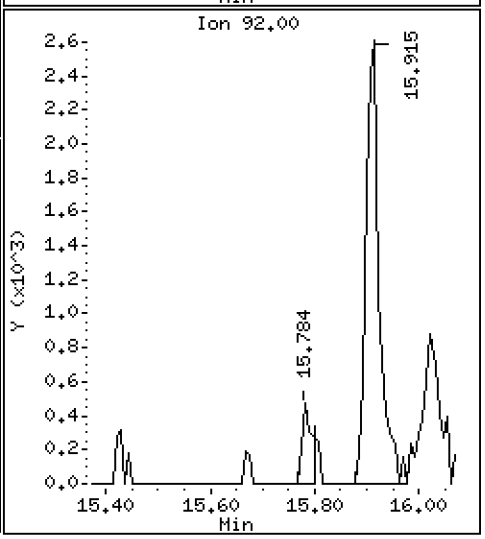


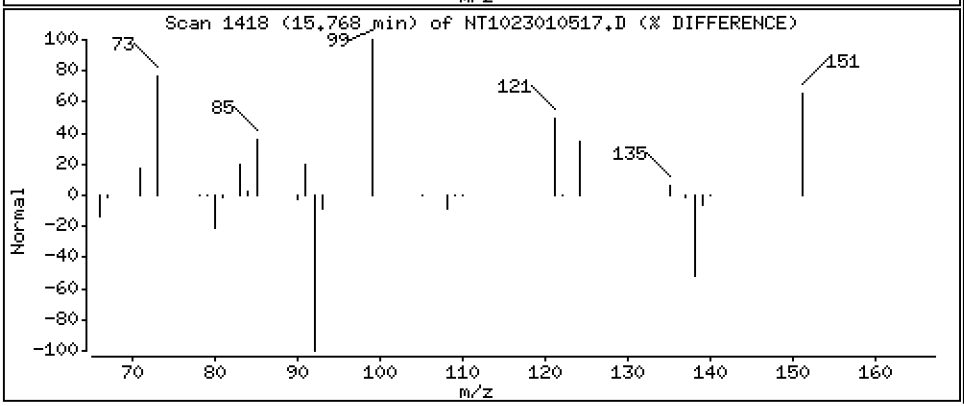












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

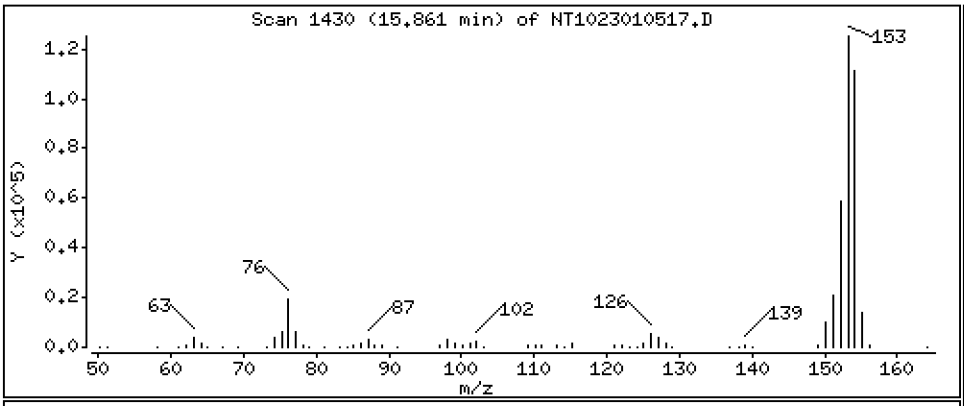
Operator: VTS

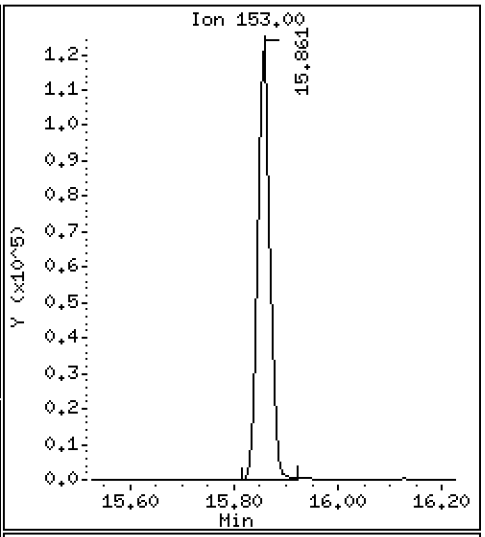
Column phase: ZB-5msi

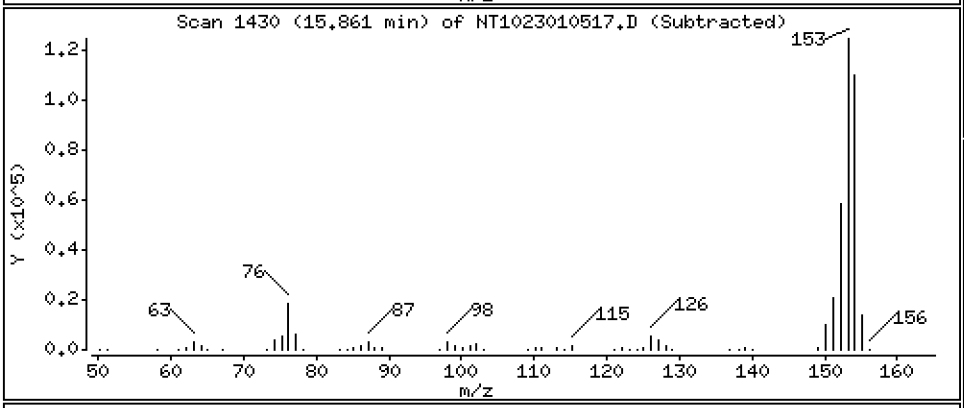
Column diameter: 0.25

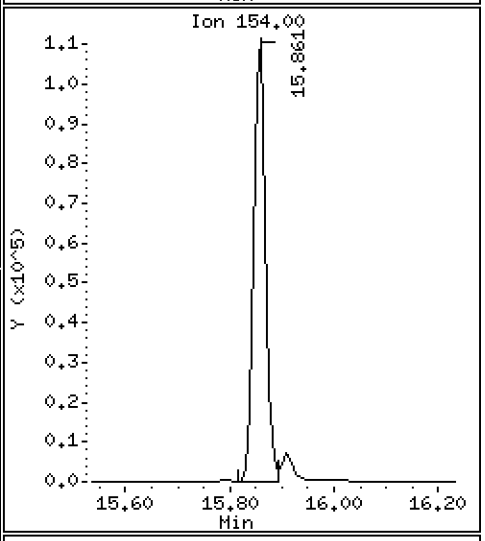
44 Acenaphthene

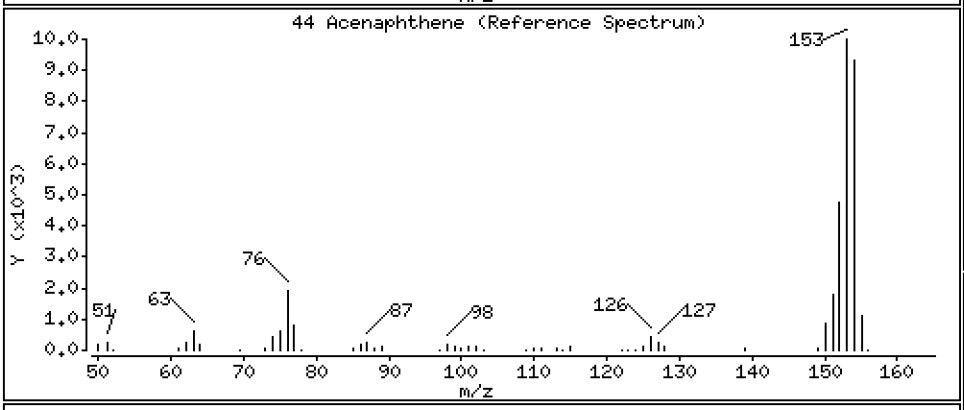
Concentration: 6.558 ug/mL

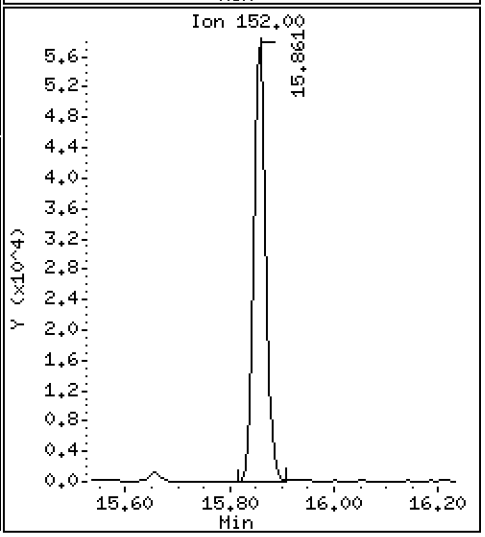


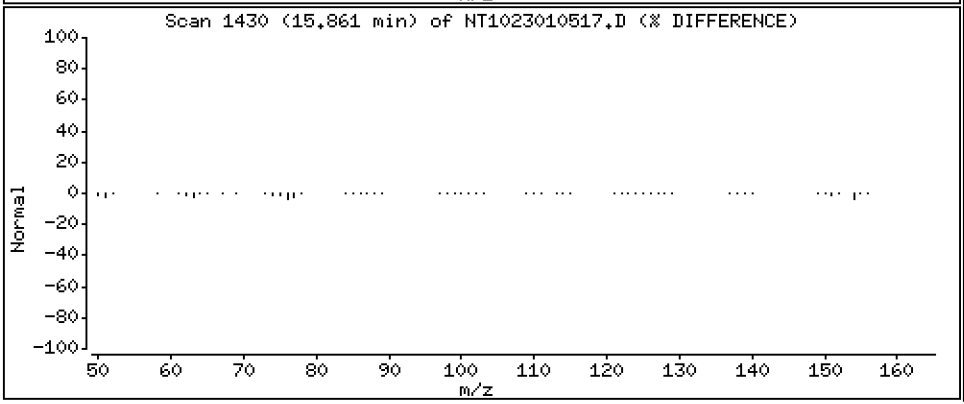












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

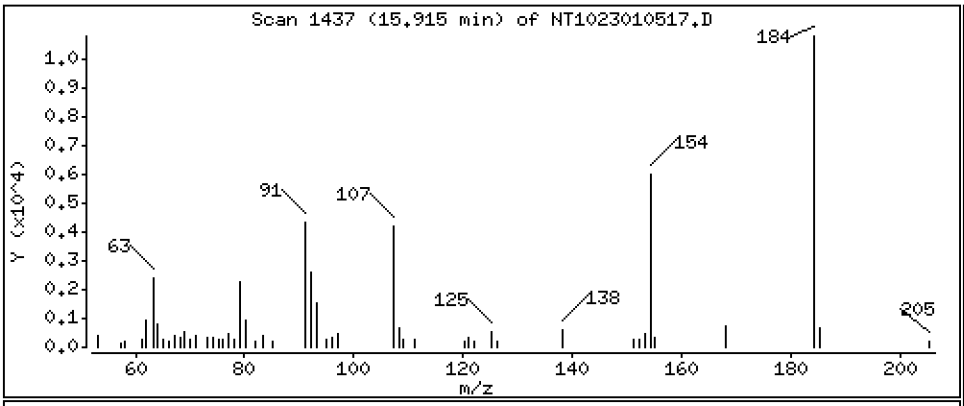
Operator: VTS

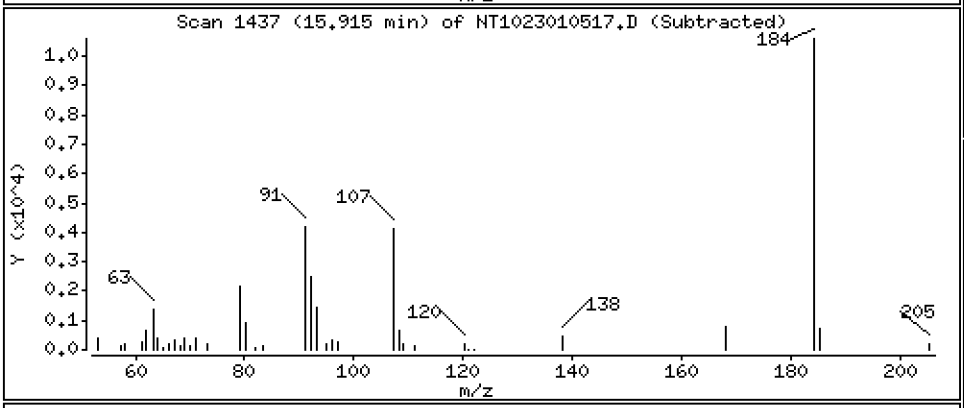
Column phase: ZB-5msi

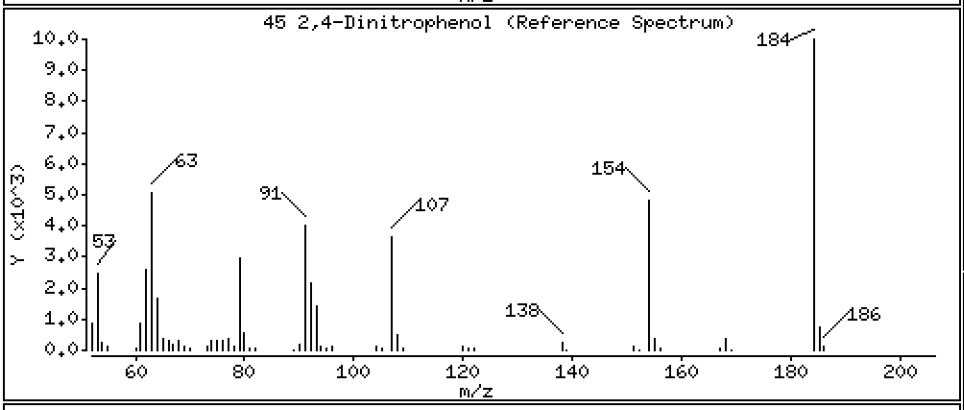
Column diameter: 0.25

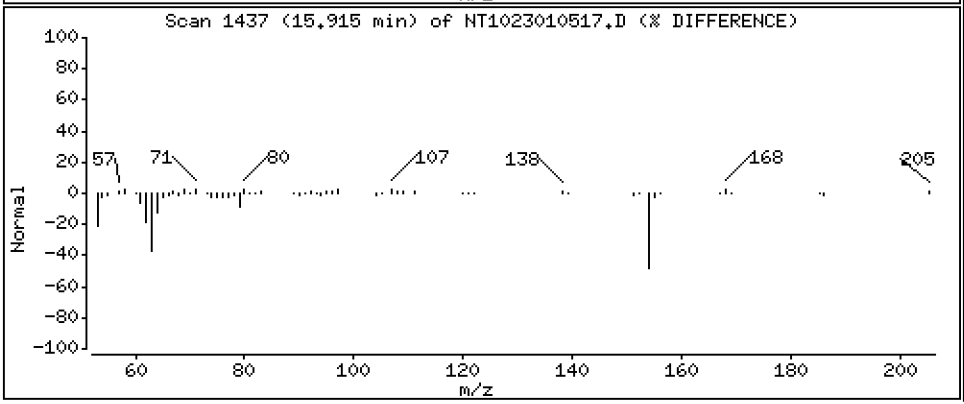
45 2,4-Dinitrophenol

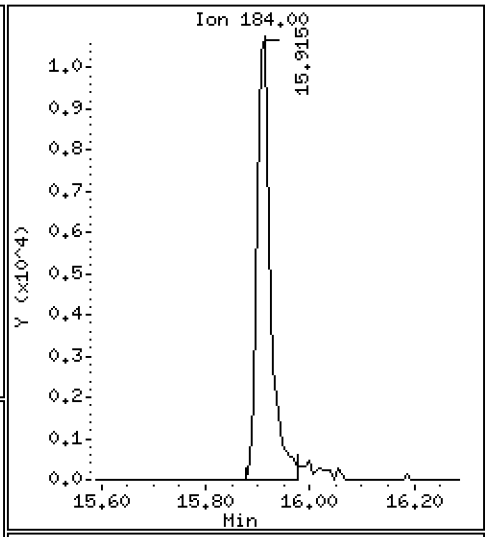
Concentration: 3.856 ug/mL

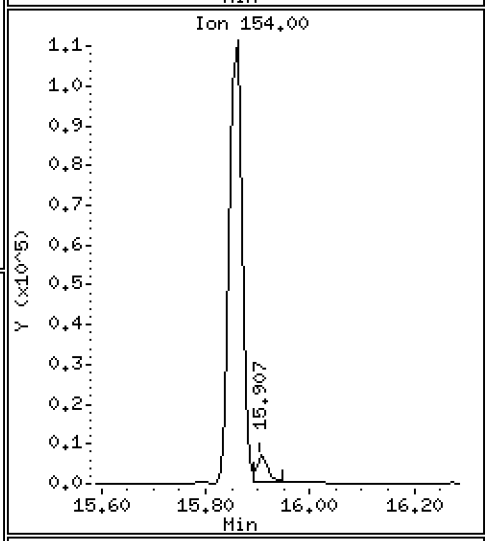


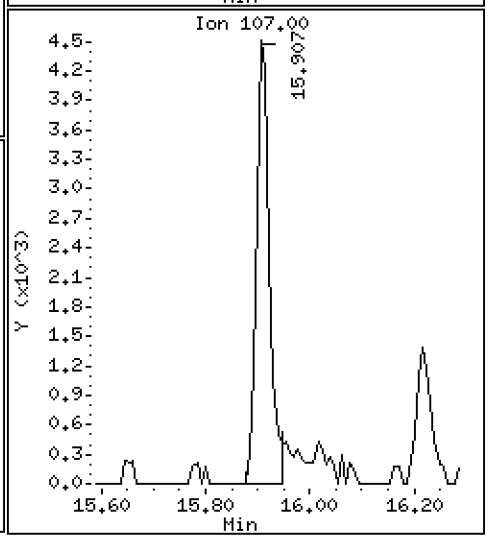












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

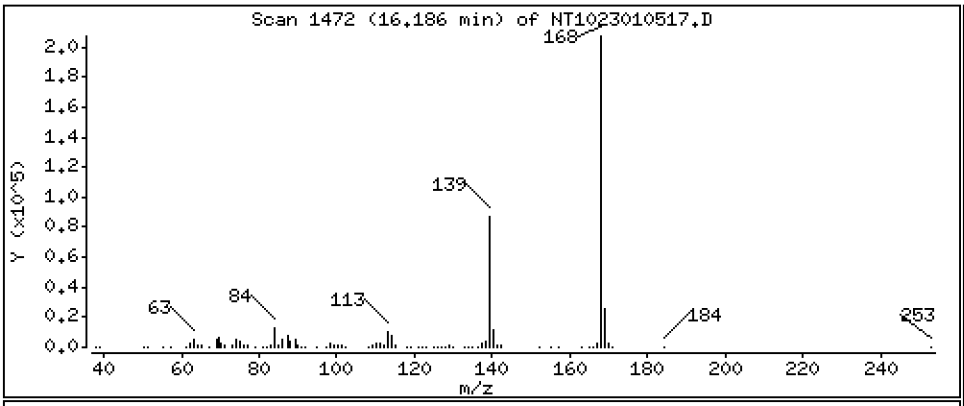
Operator: VTS

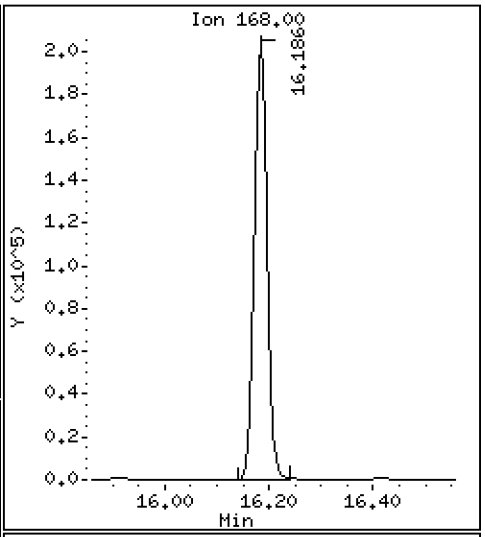
Column phase: ZB-5msi

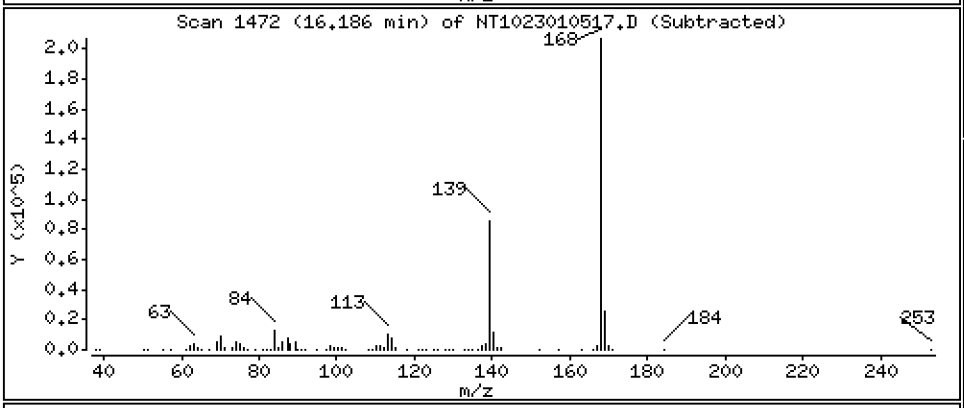
Column diameter: 0.25

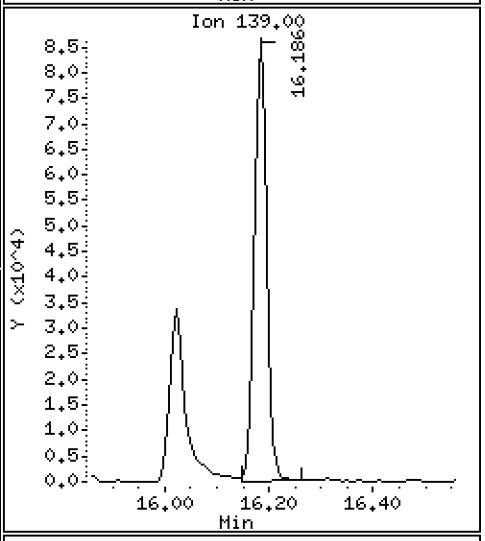
46 Dibenzofuran

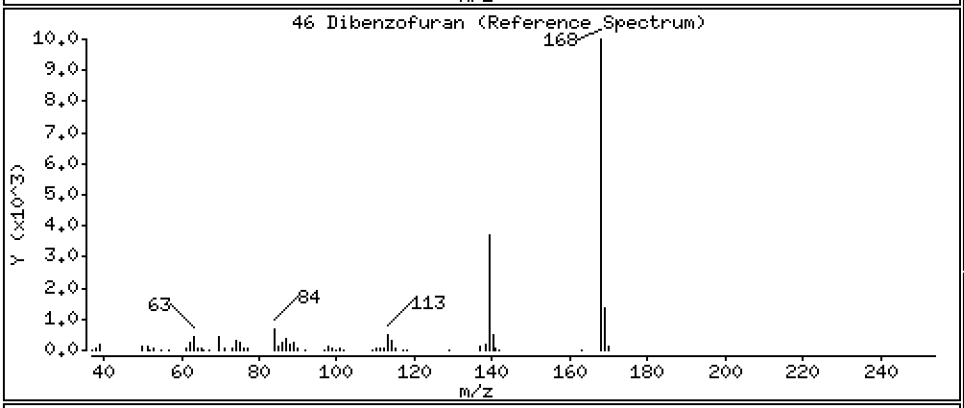
Concentration: 7.868 ug/mL

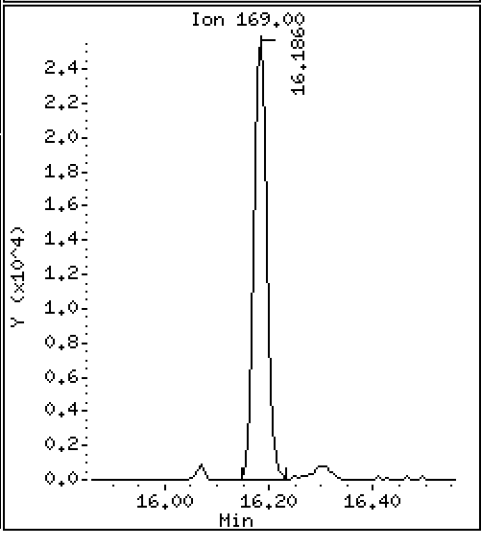


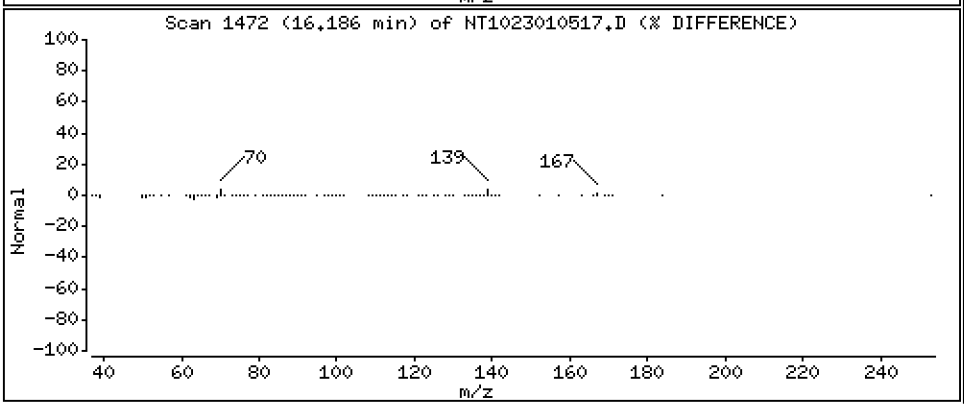












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

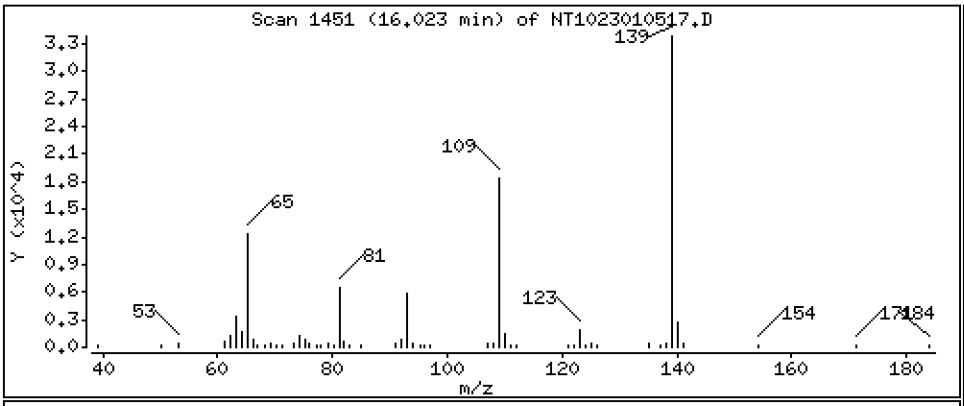
Operator: VTS

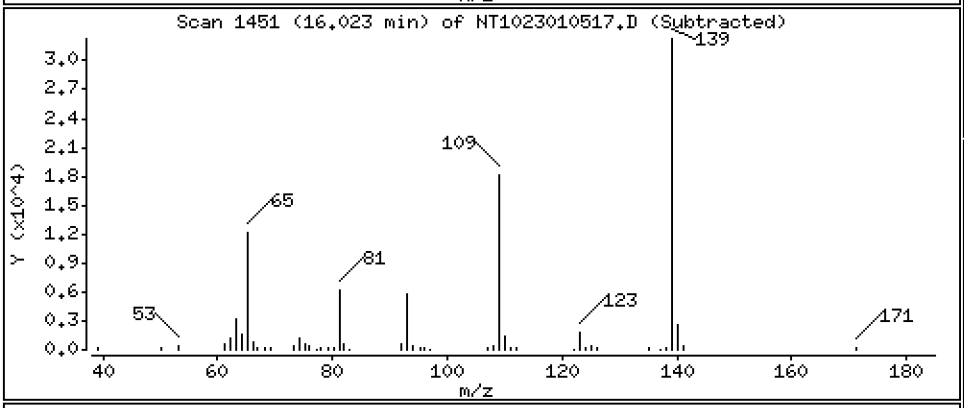
Column phase: ZB-5msi

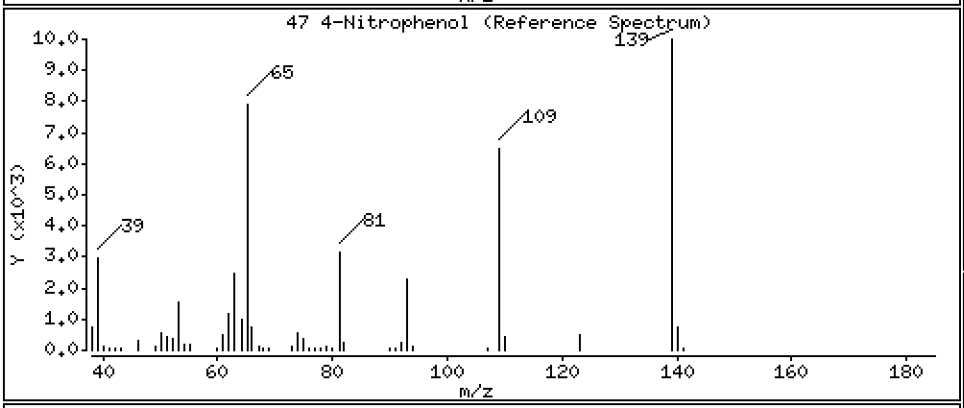
Column diameter: 0.25

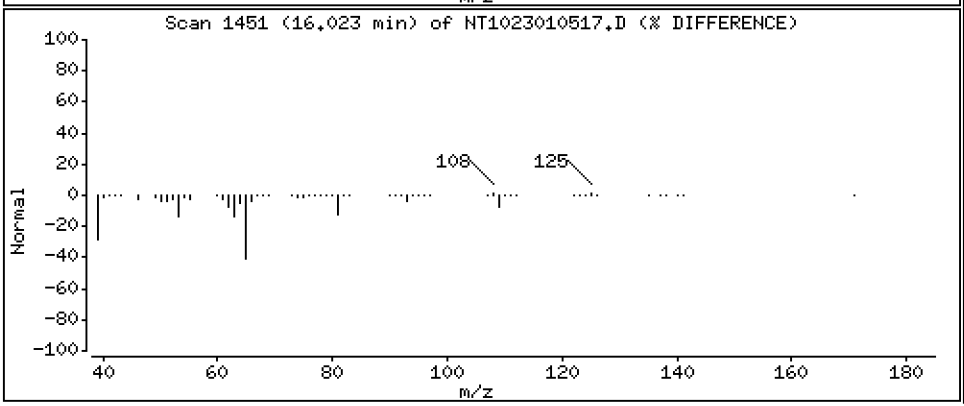
47 4-Nitrophenol

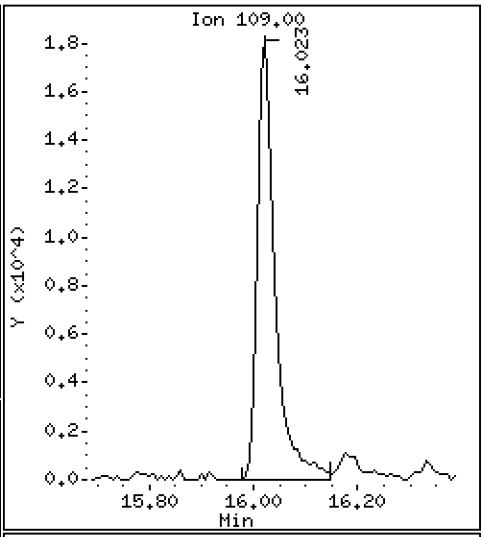
Concentration: 9.755 ug/mL

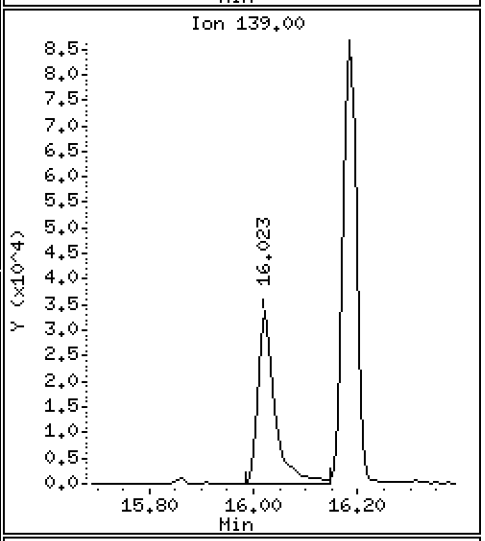


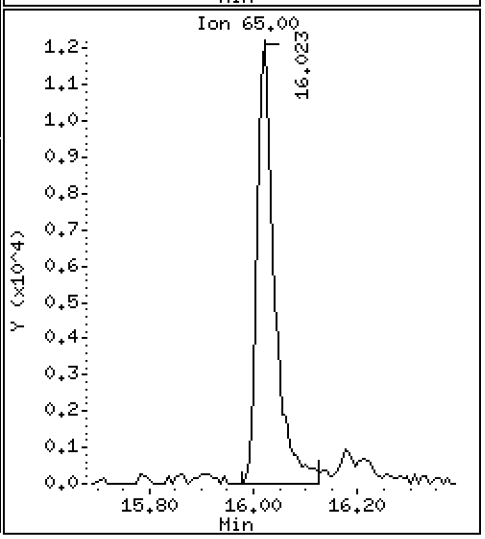












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

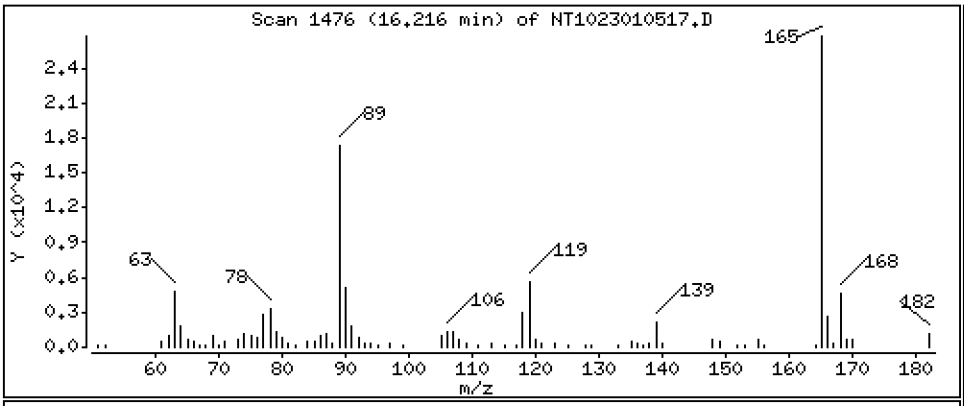
Operator: VTS

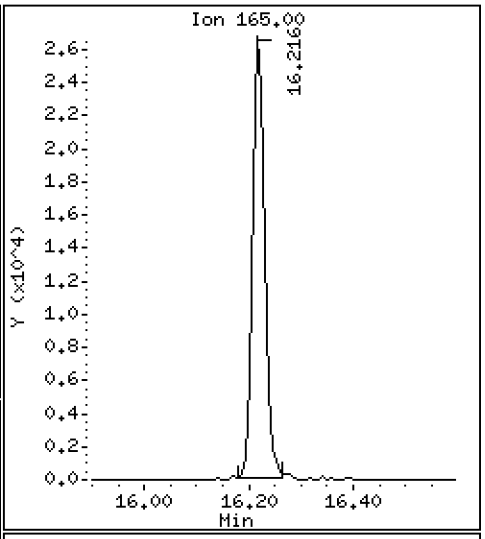
Column phase: ZB-5msi

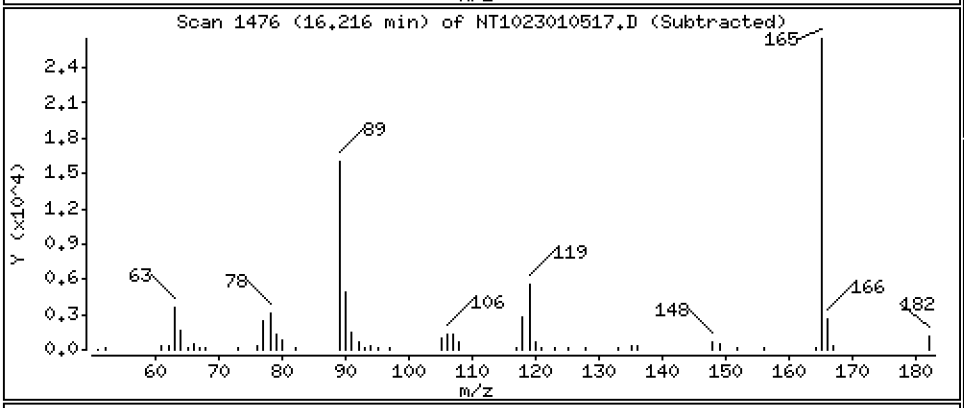
Column diameter: 0.25

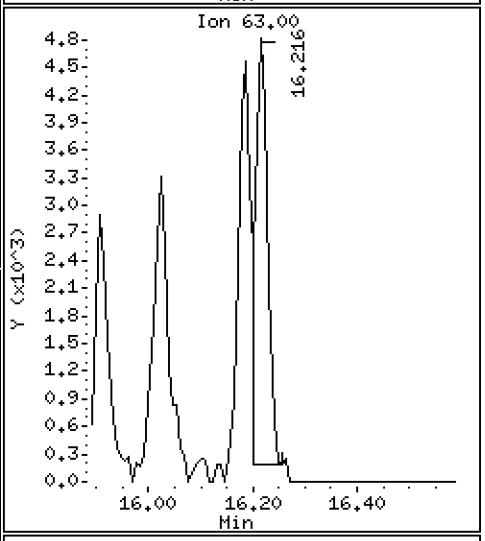
48 2,4-Dinitrotoluene

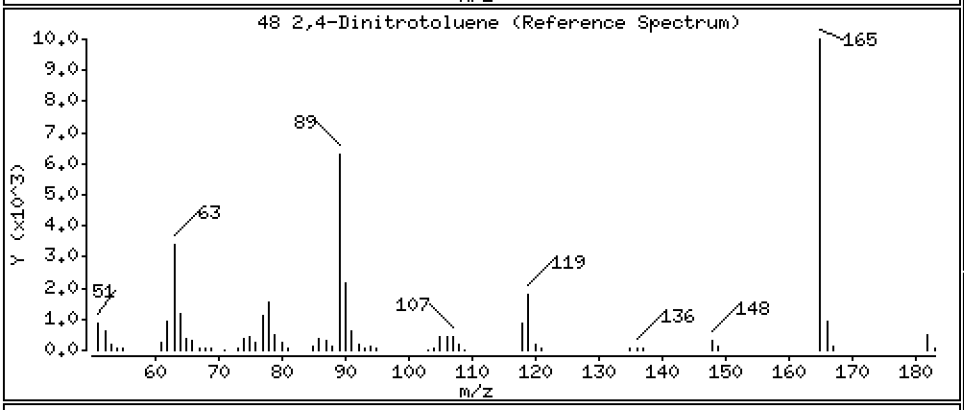
Concentration: 4.221 ug/mL

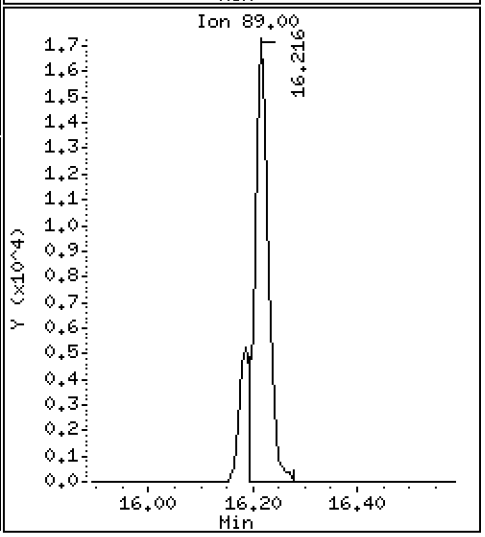


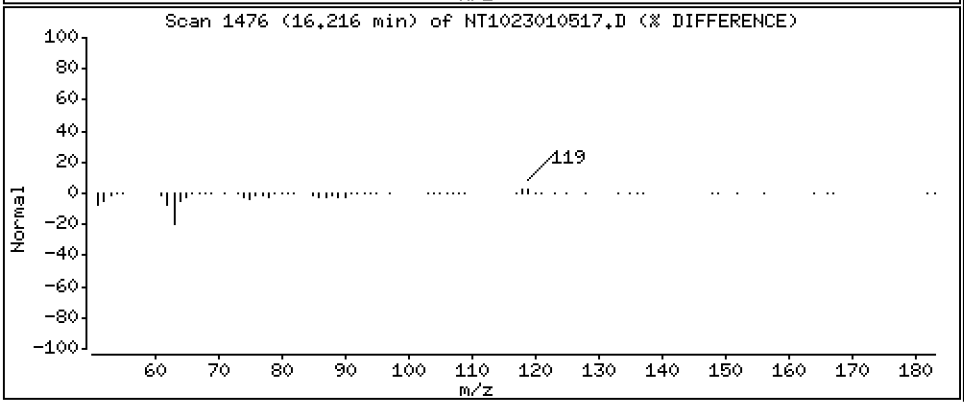












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

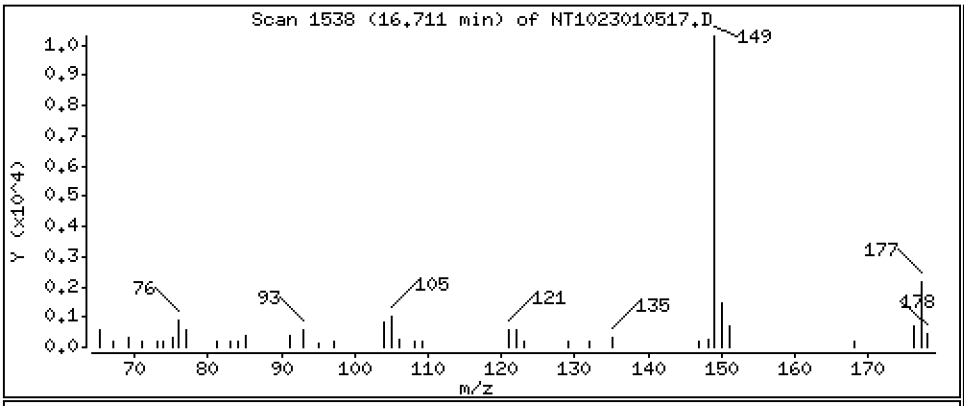
Operator: VTS

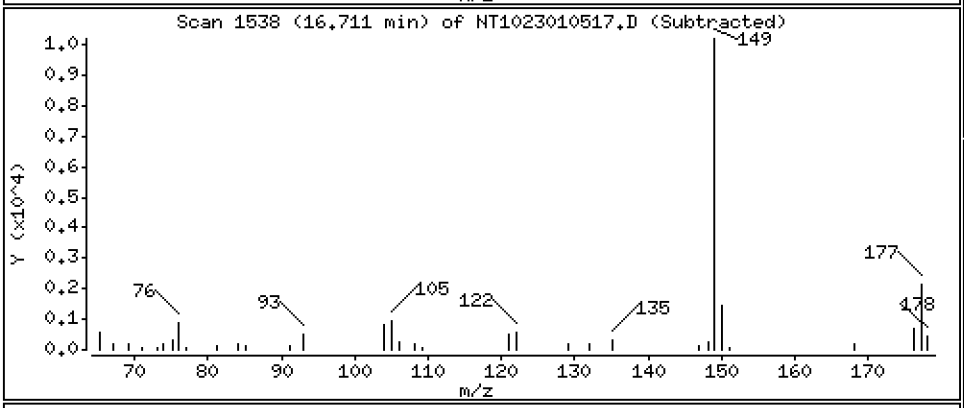
Column phase: ZB-5msi

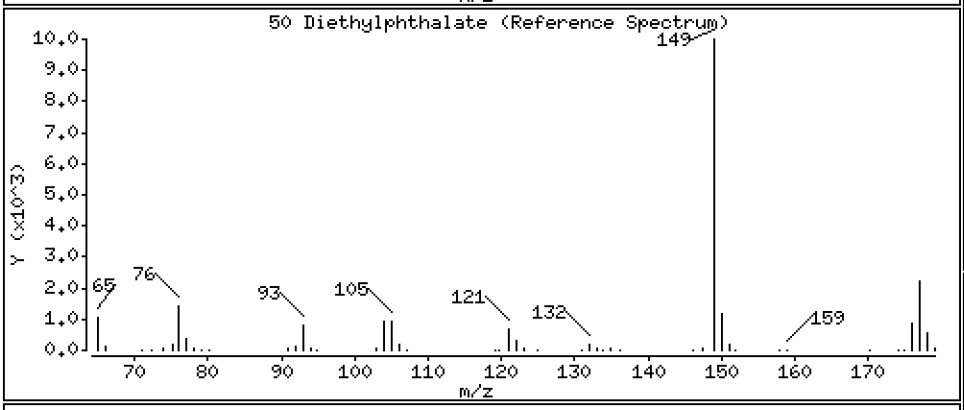
Column diameter: 0.25

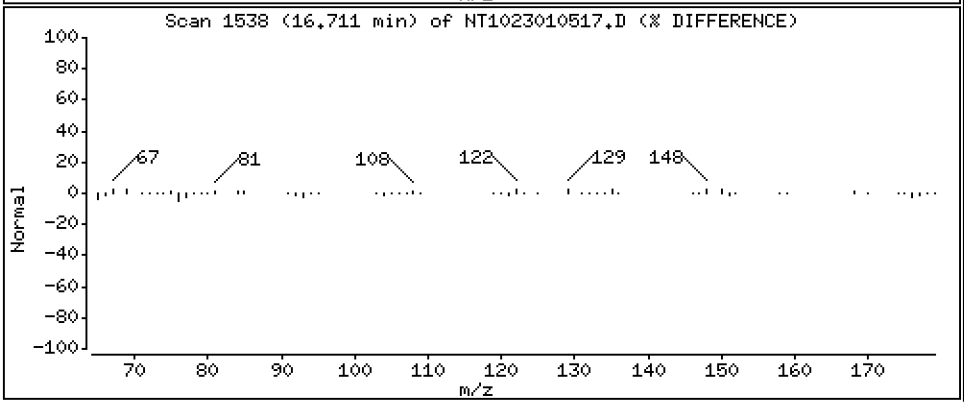
50 Diethylphthalate

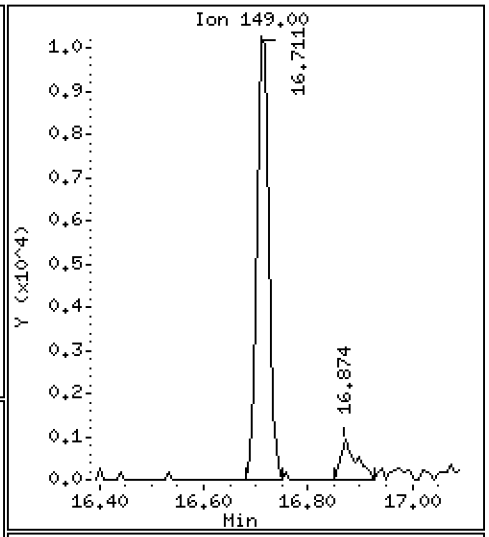
Concentration: 0.4668 ug/mL

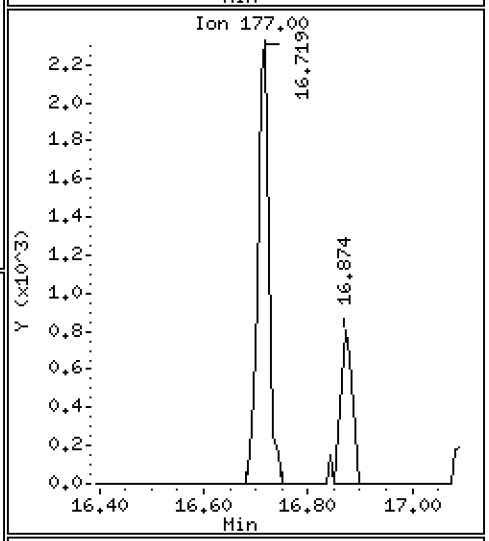


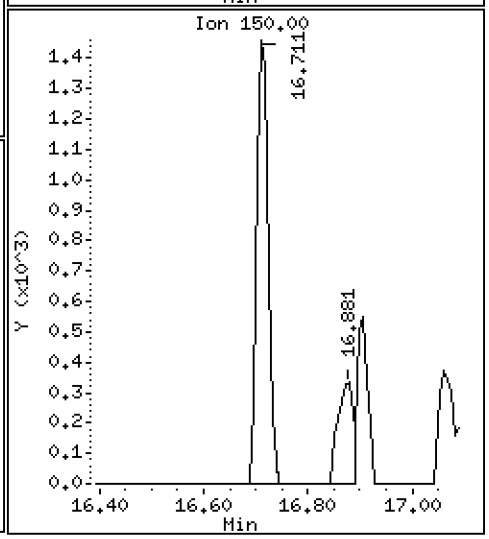












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

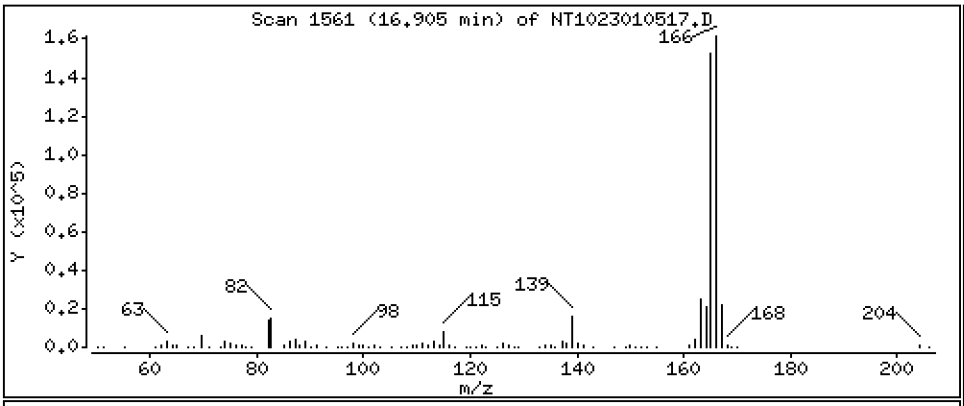
Operator: VTS

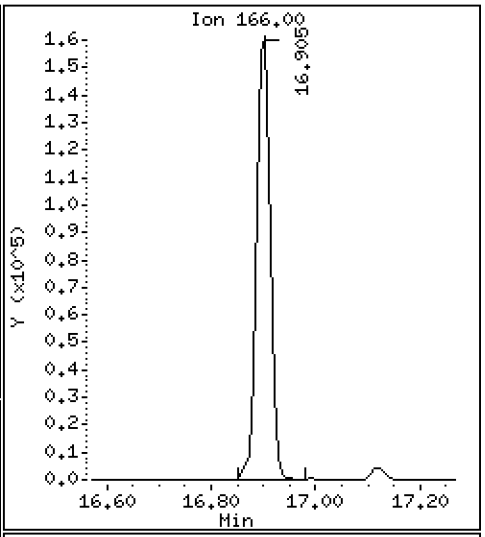
Column phase: ZB-5msi

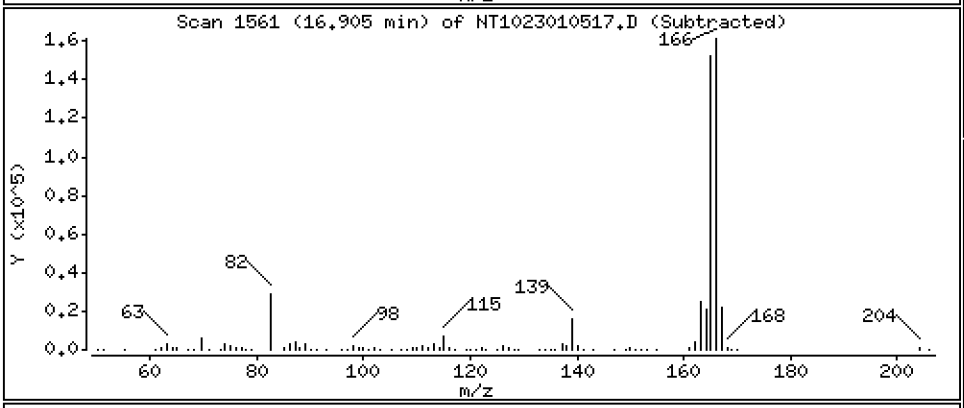
Column diameter: 0.25

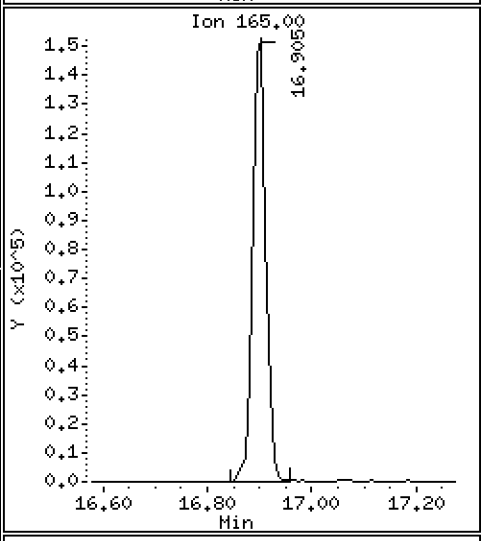
49 Fluorene

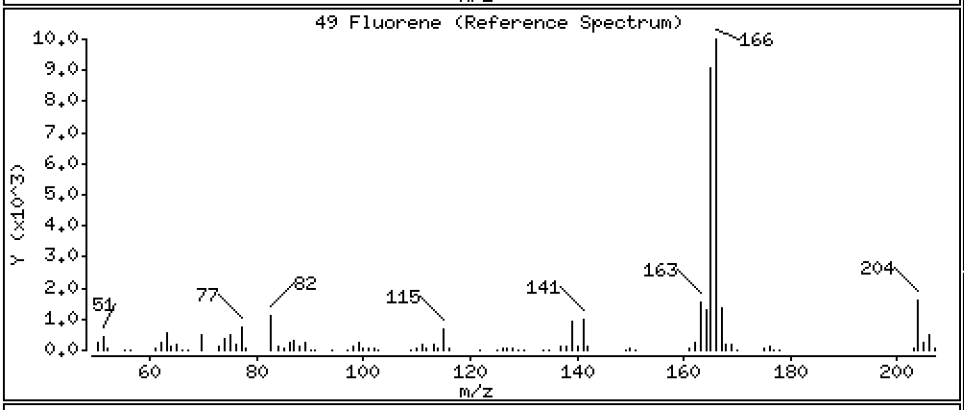
Concentration: 4.636 ug/mL

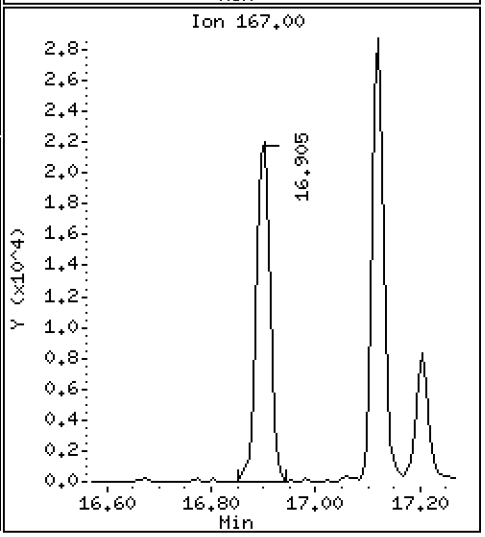


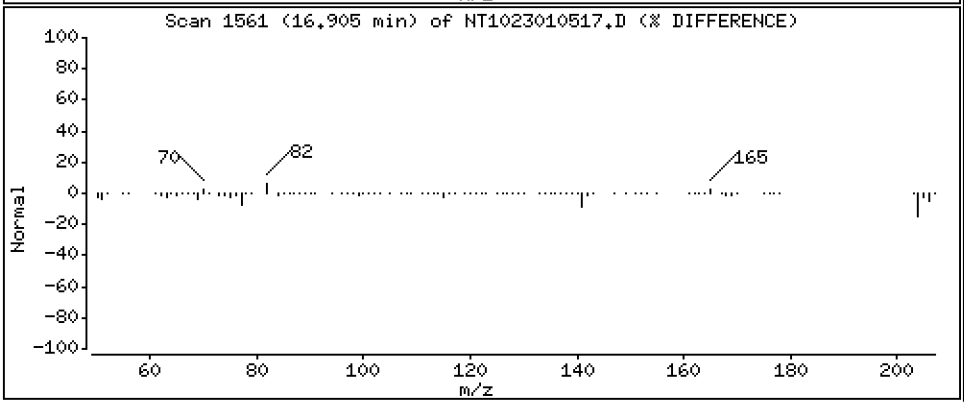












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

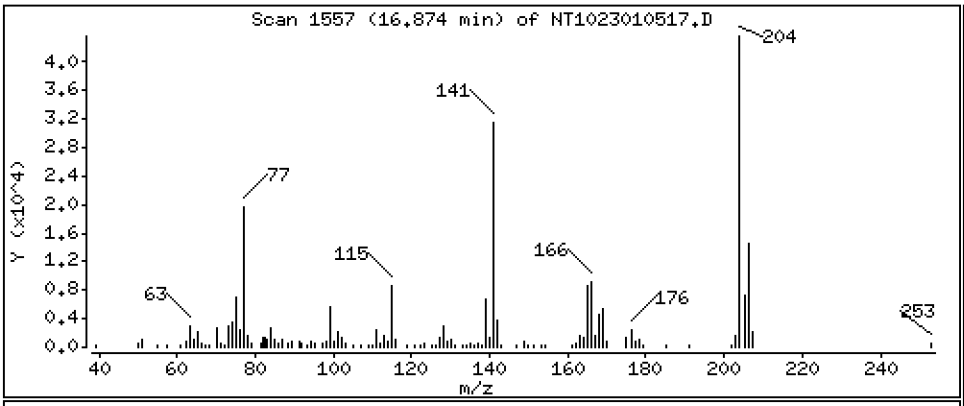
Operator: VTS

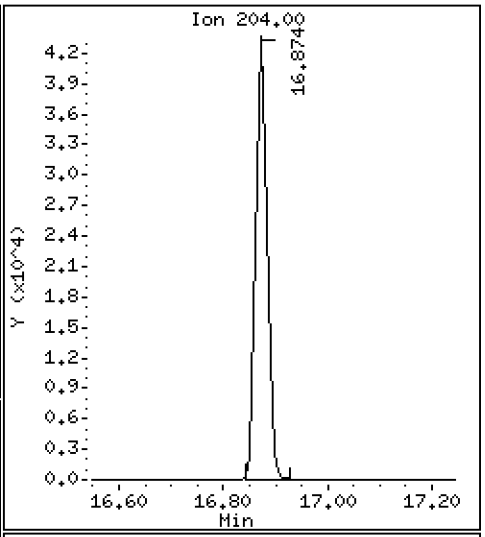
Column phase: ZB-5msi

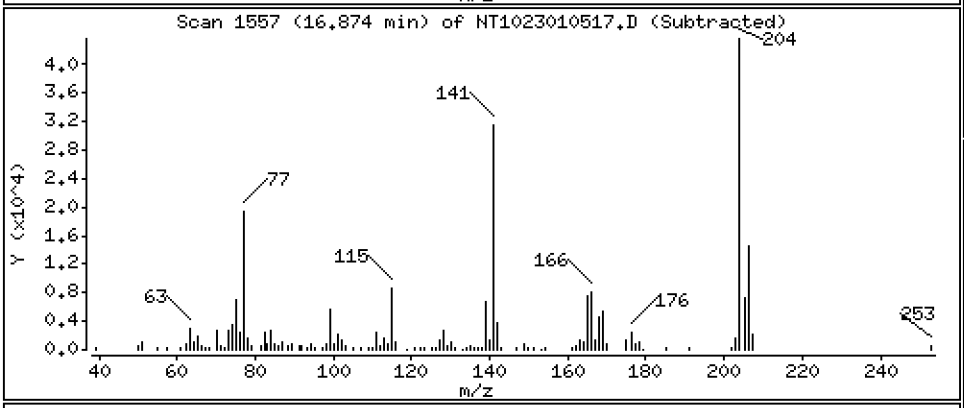
Column diameter: 0.25

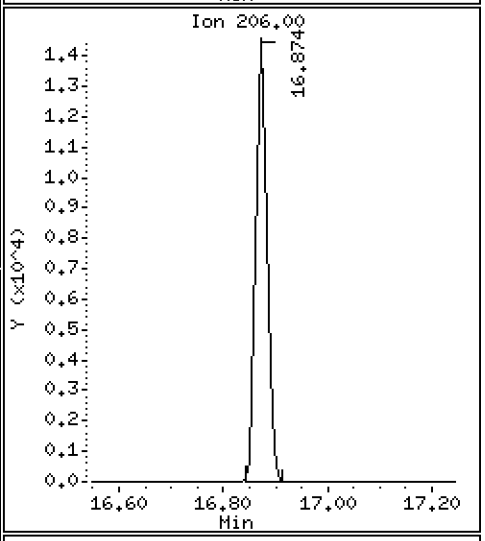
51 4-Chlorophenyl-phenylether

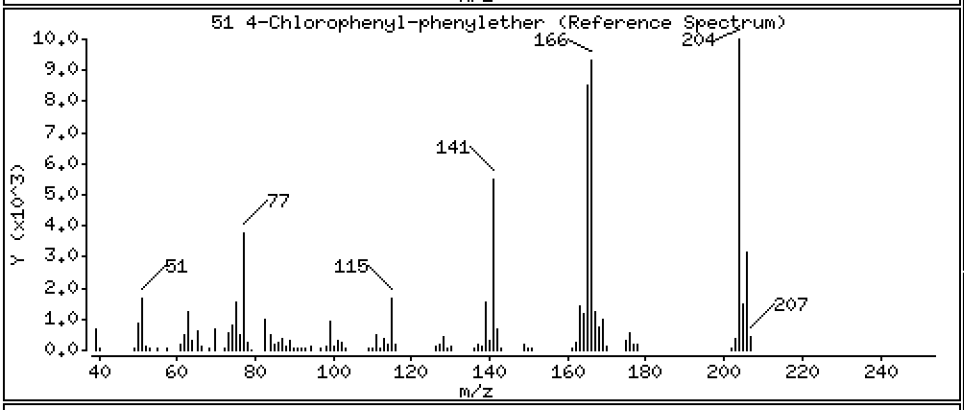
Concentration: 2.448 ug/mL

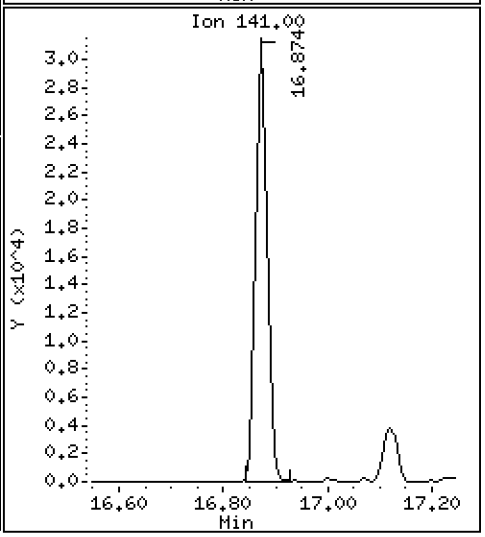


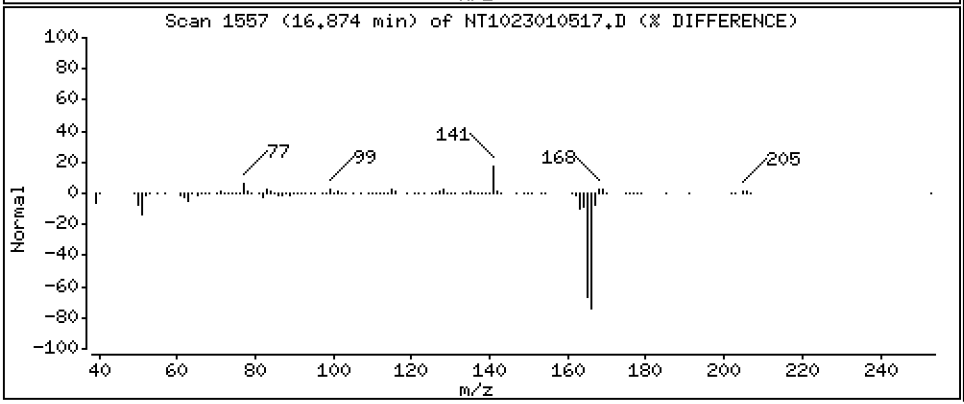












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

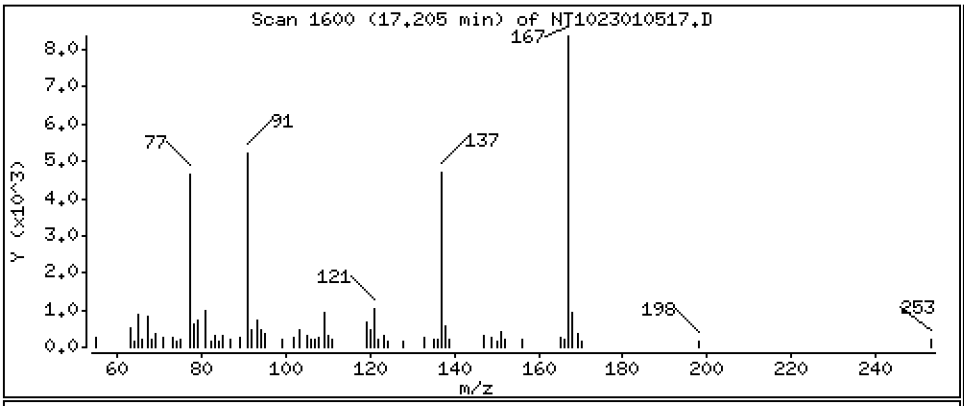
Operator: VTS

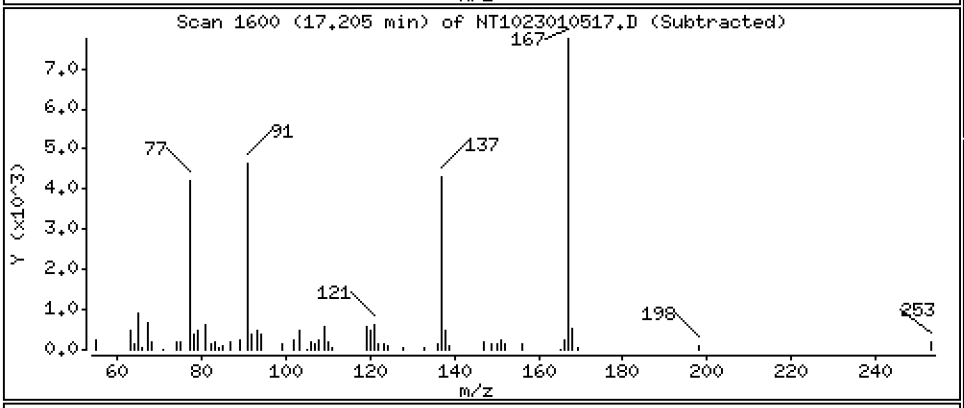
Column phase: ZB-5msi

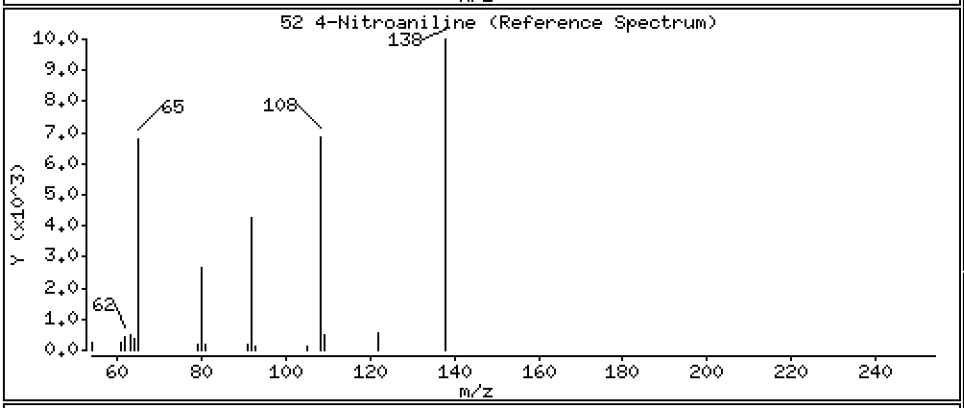
Column diameter: 0.25

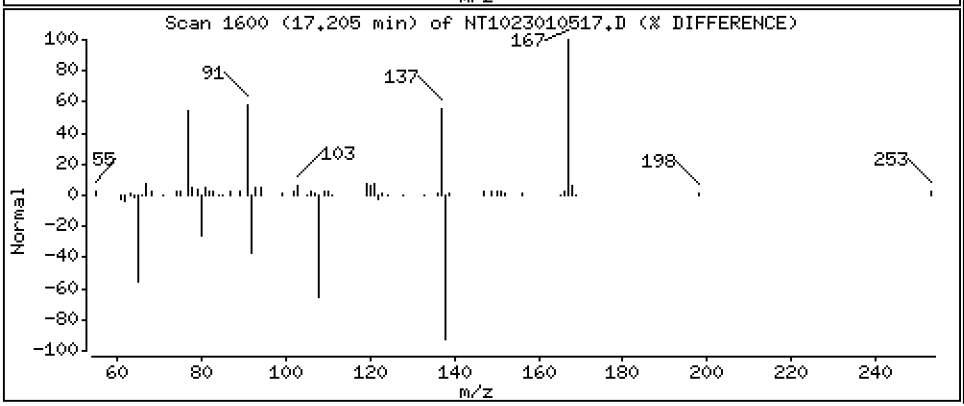
52 4-Nitroaniline

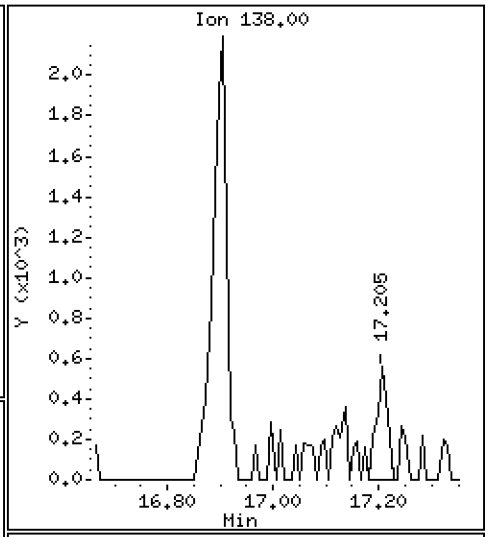
Concentration: 0.05270 ug/mL

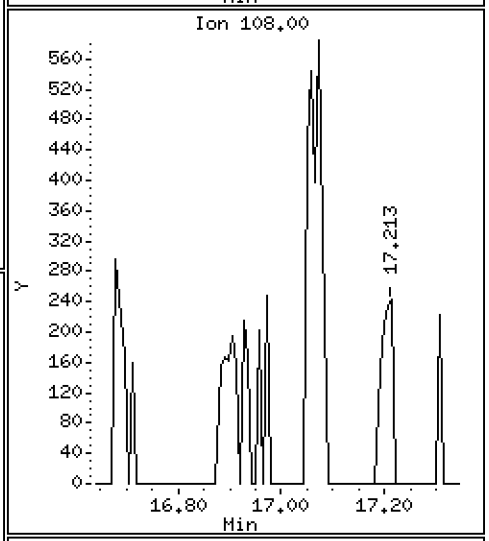


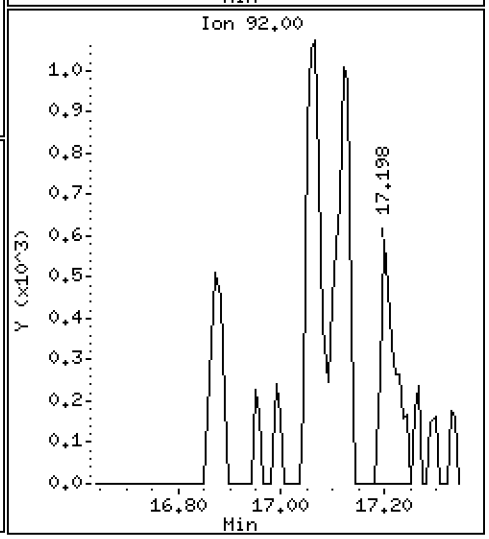












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

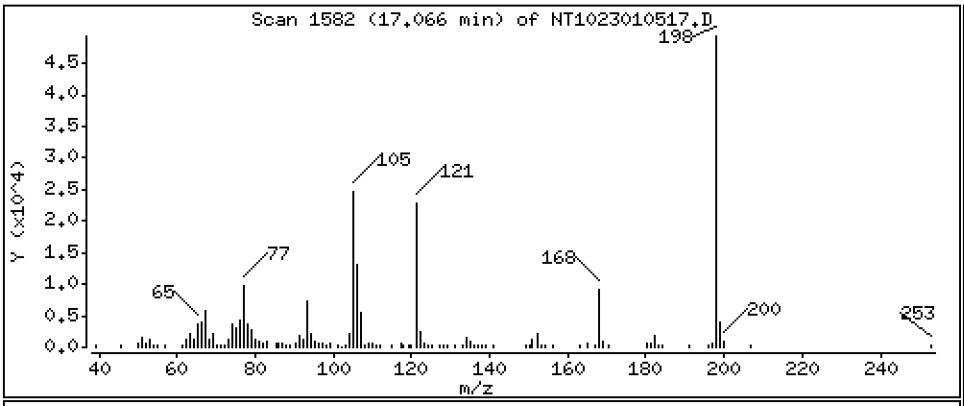
Operator: VTS

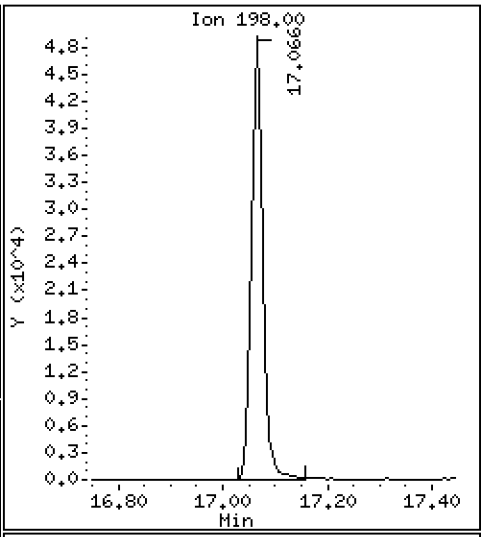
Column phase: ZB-5msi

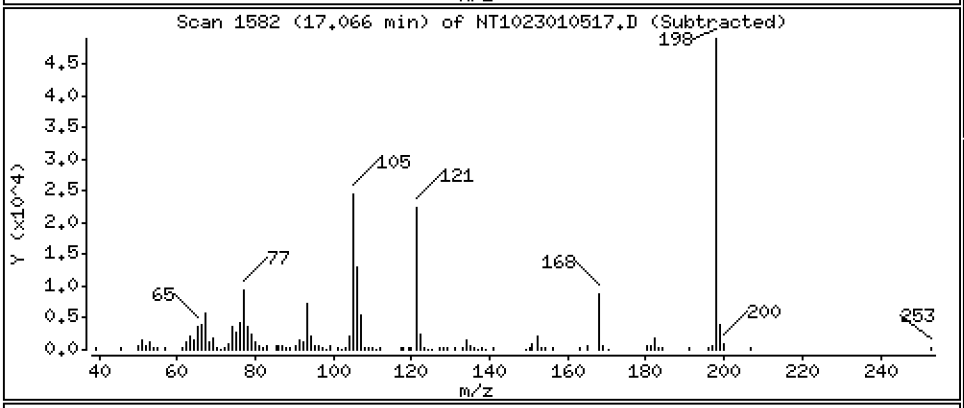
Column diameter: 0.25

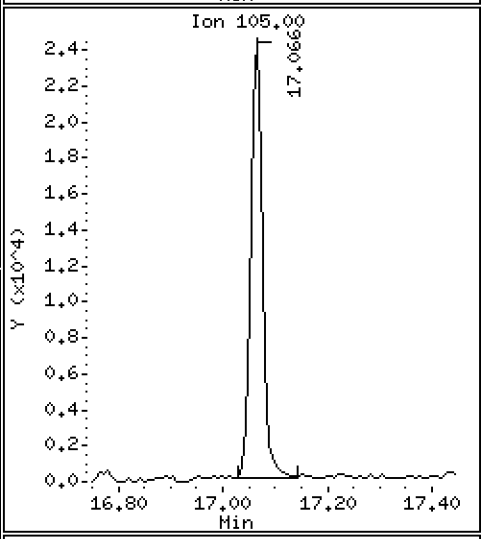
53 4,6-Dinitro-2-methylphenol

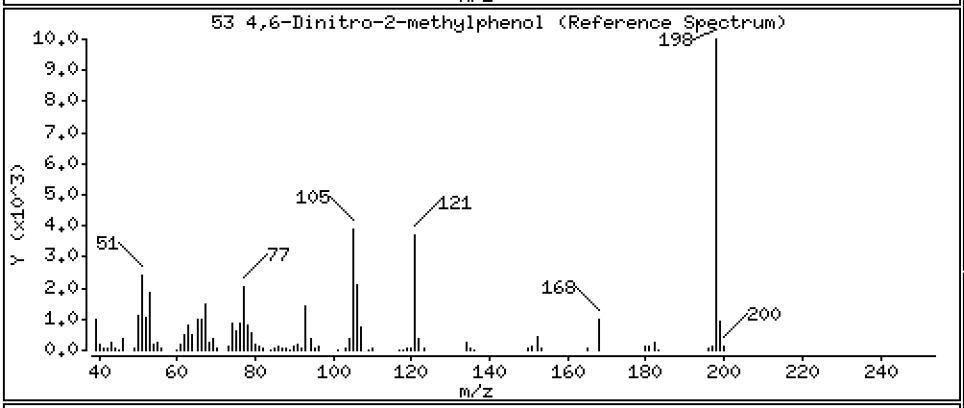
Concentration: 8.365 ug/mL

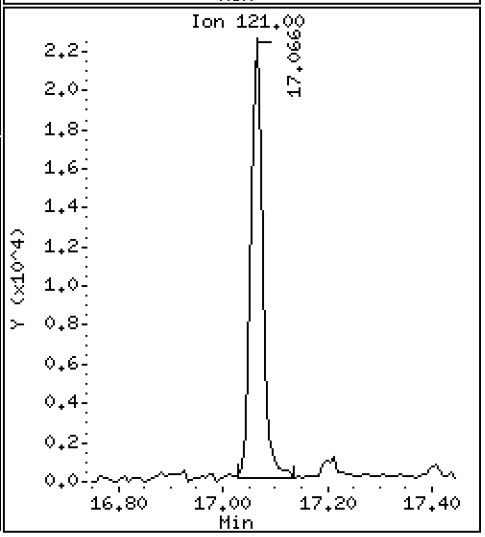


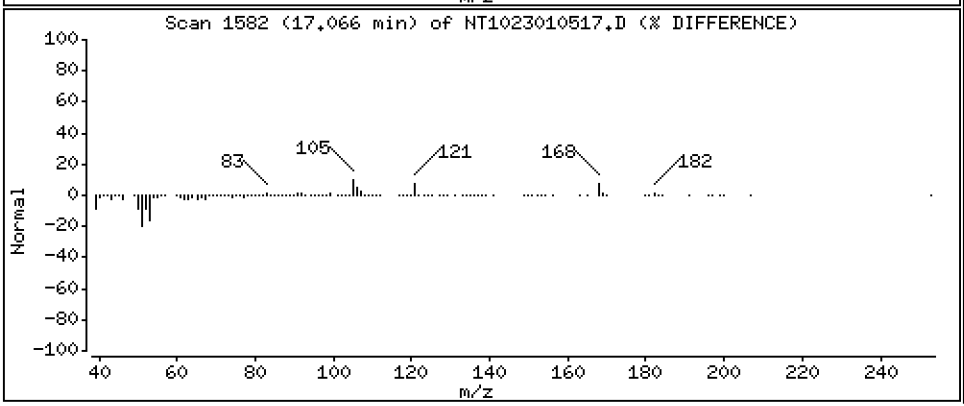












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

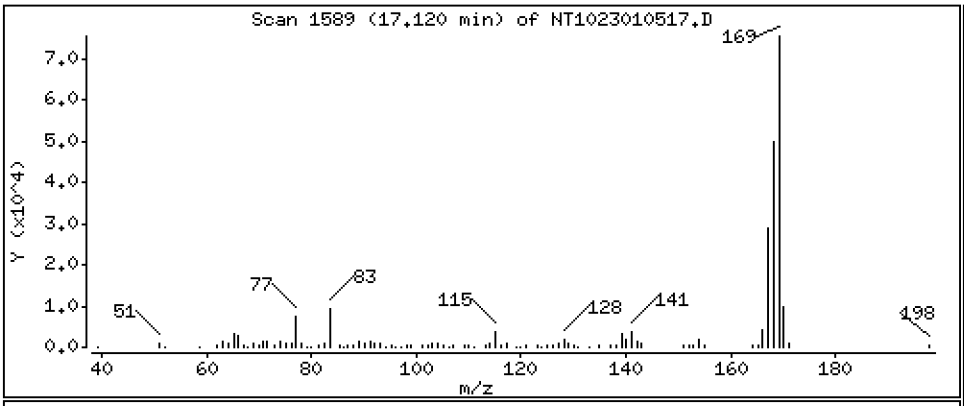
Operator: VTS

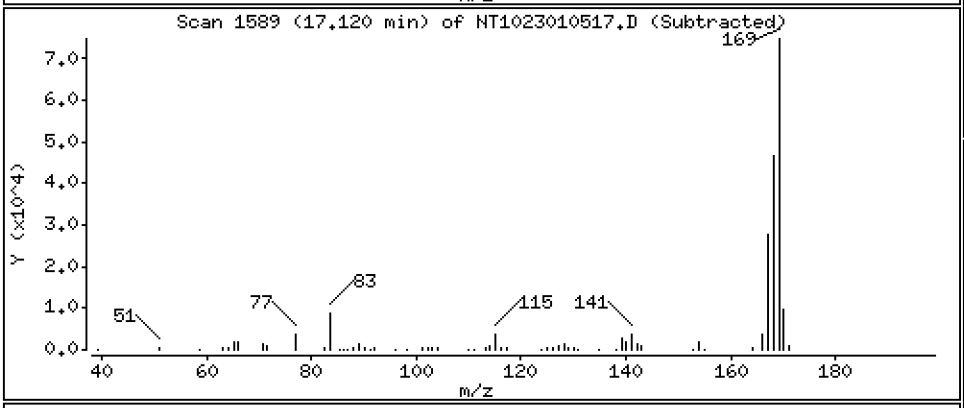
Column phase: ZB-5msi

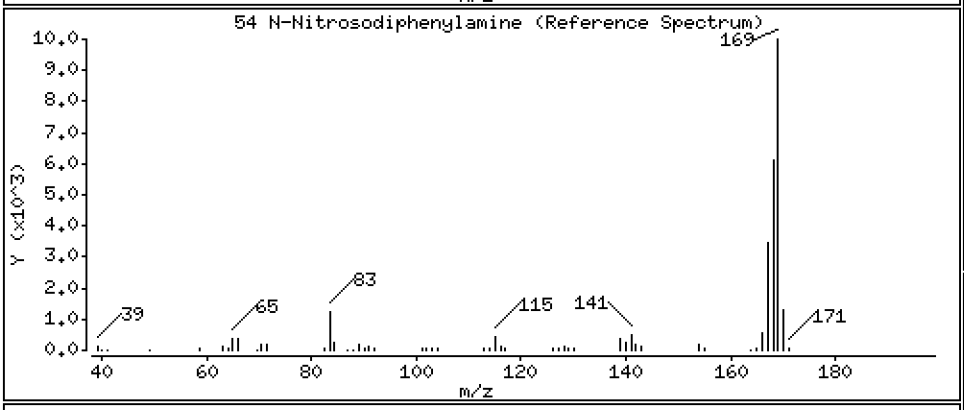
Column diameter: 0.25

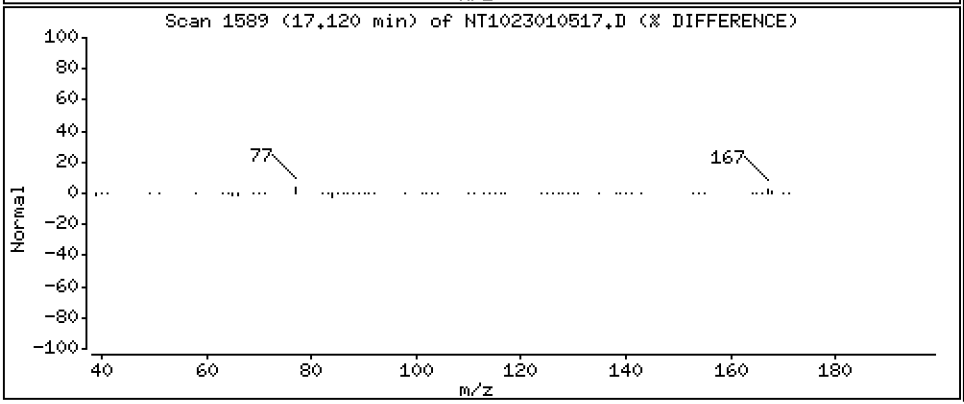
54 N-Nitrosodiphenylamine

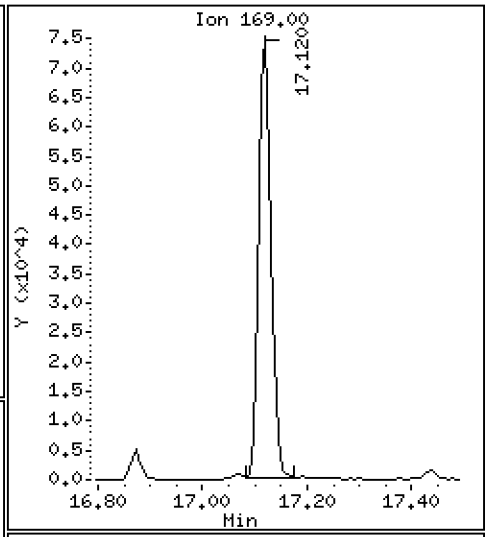
Concentration: 3.119 ug/mL

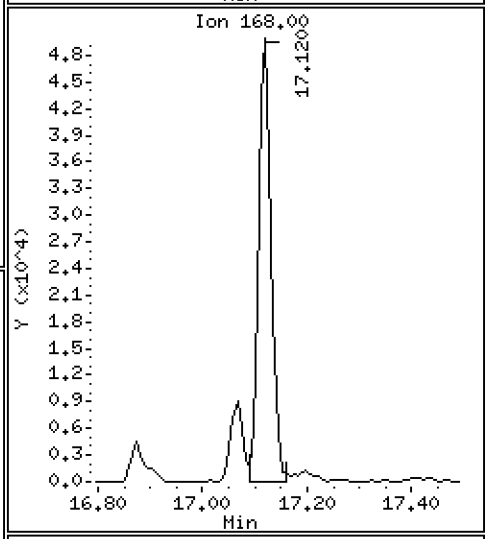


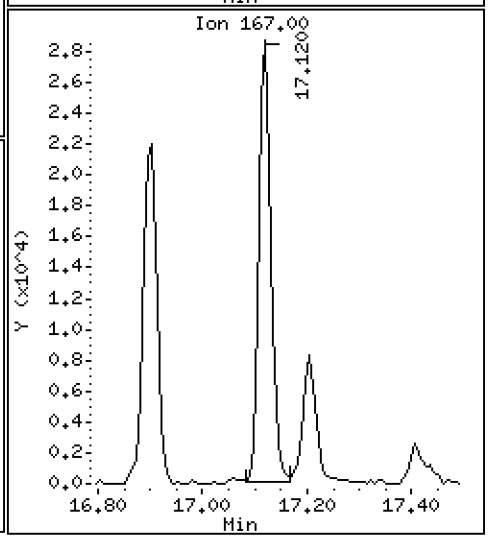












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

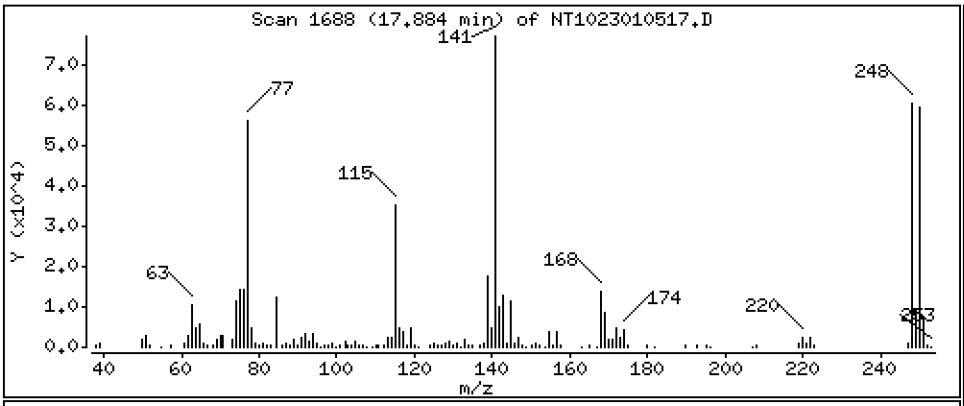
Operator: VTS

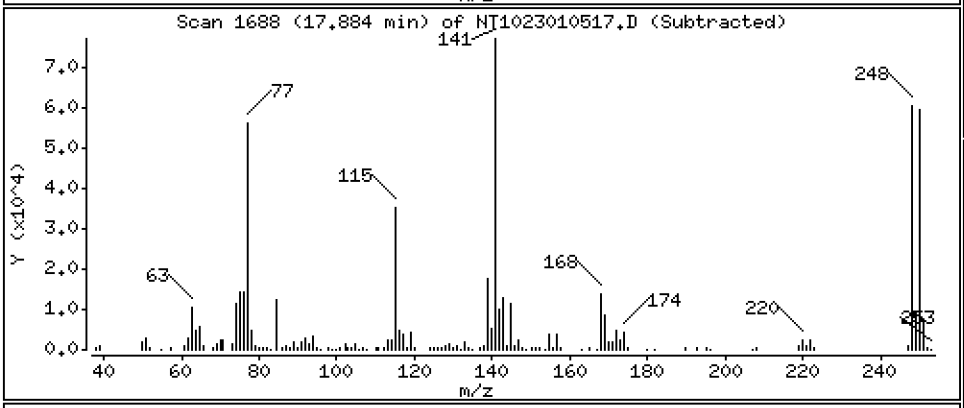
Column phase: ZB-5msi

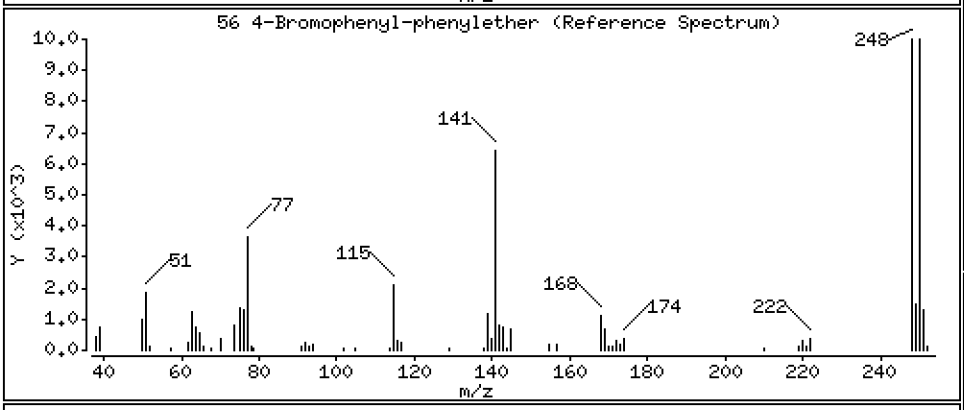
Column diameter: 0.25

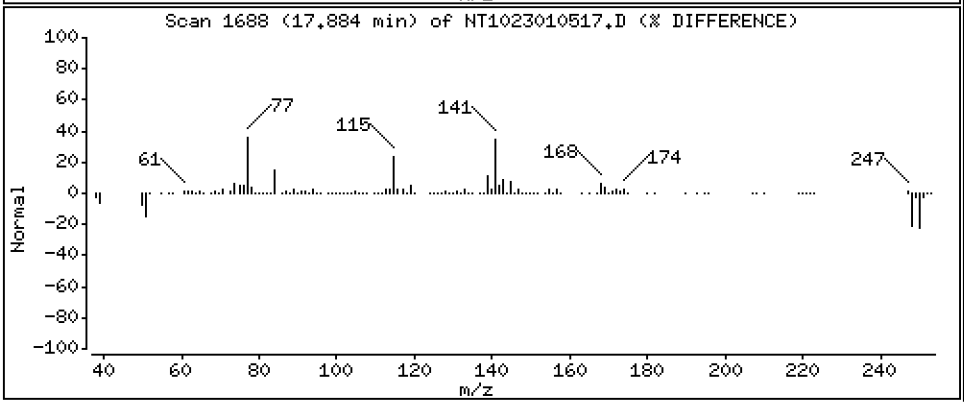
56 4-Bromophenyl-phenylether

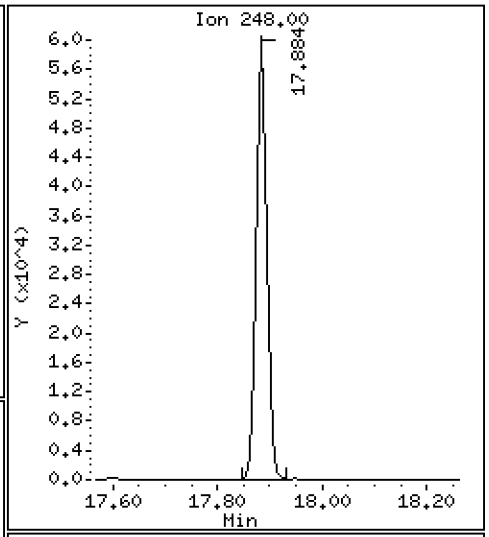
Concentration: 8.392 ug/mL

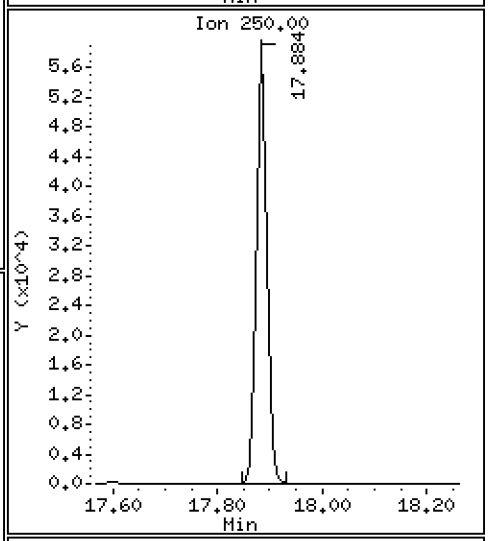


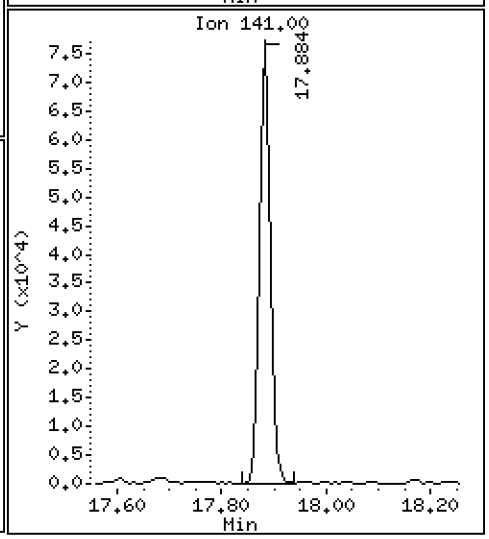












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

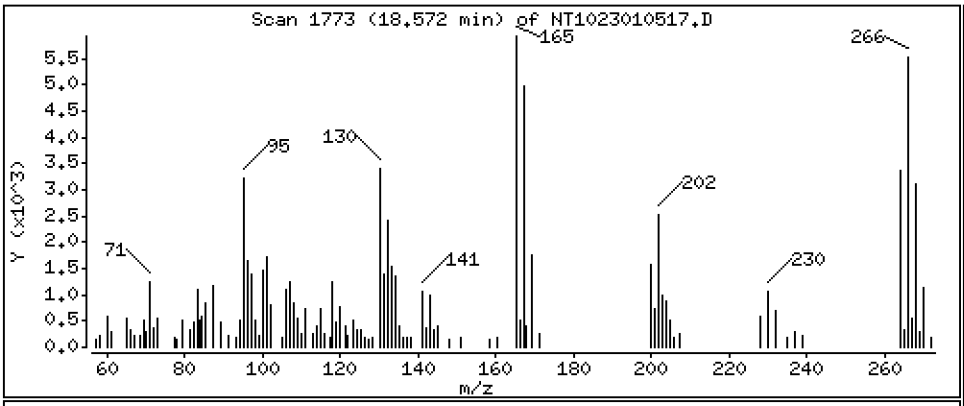
Operator: VTS

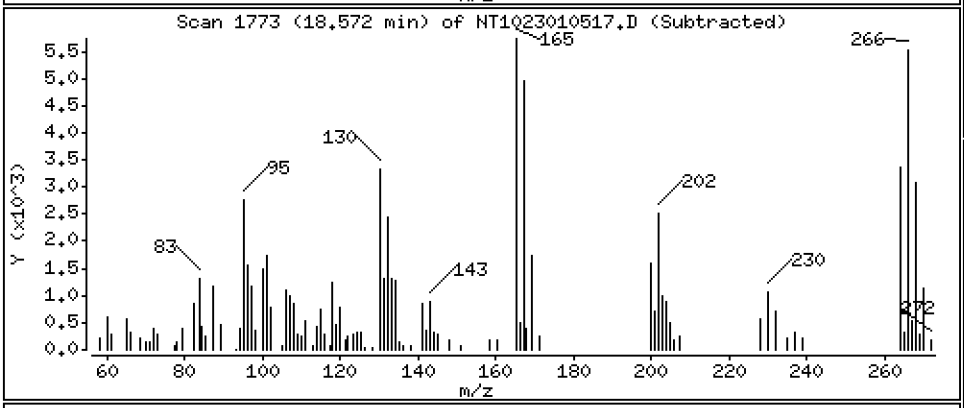
Column phase: ZB-5msi

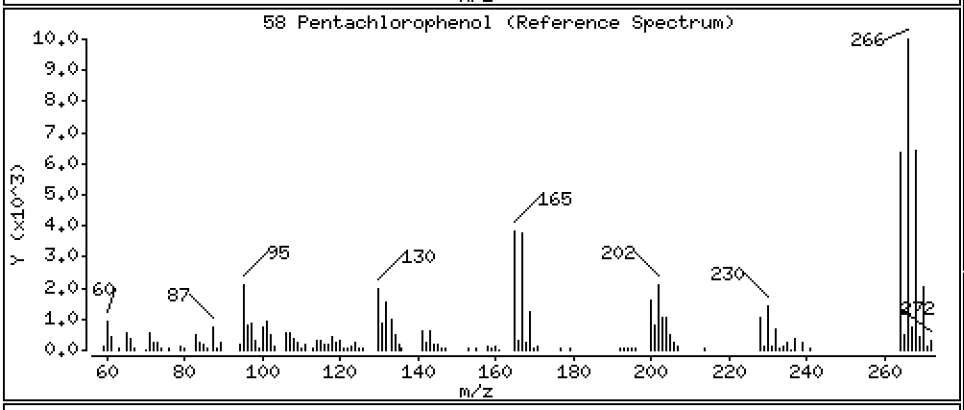
Column diameter: 0.25

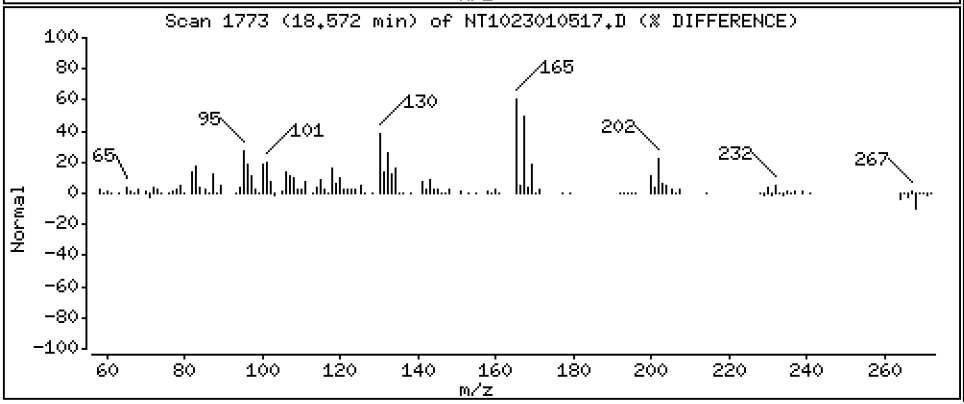
58 Pentachlorophenol

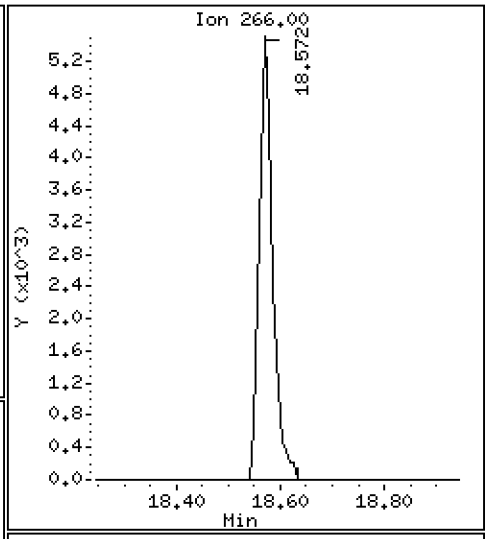
Concentration: 5.329 ug/mL

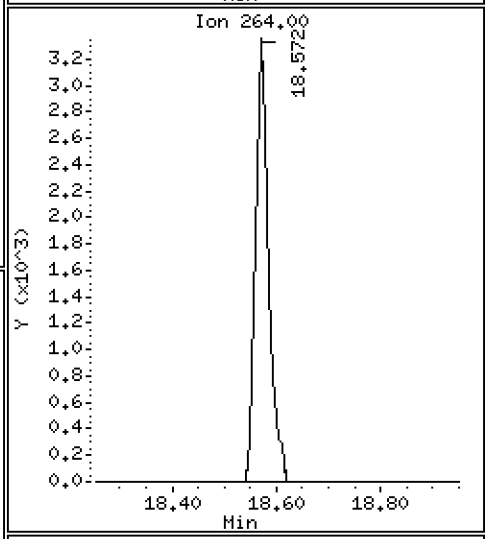


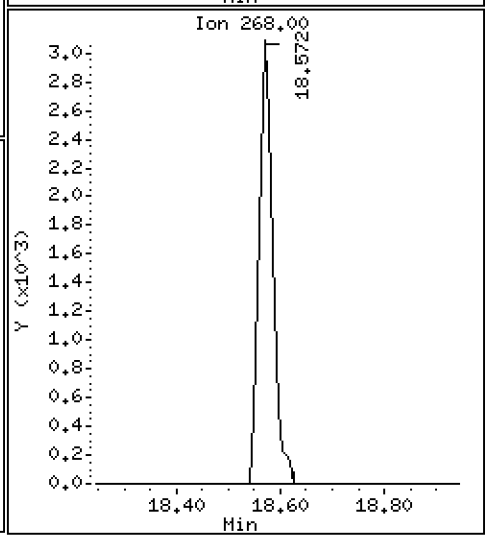












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

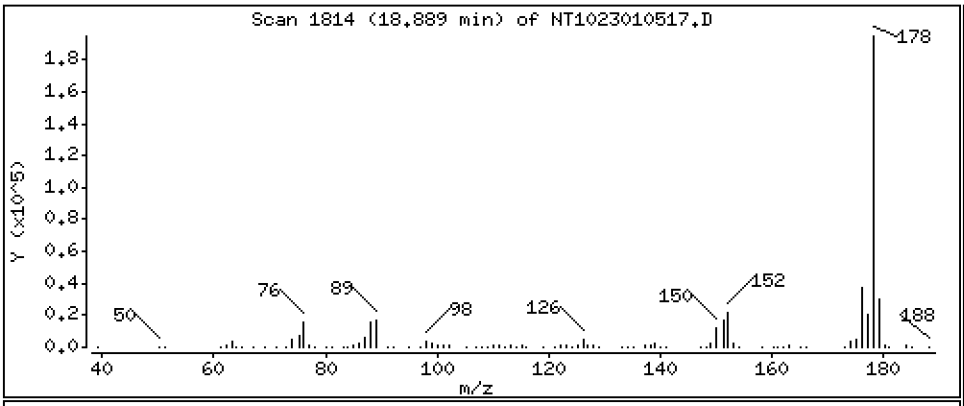
Operator: VTS

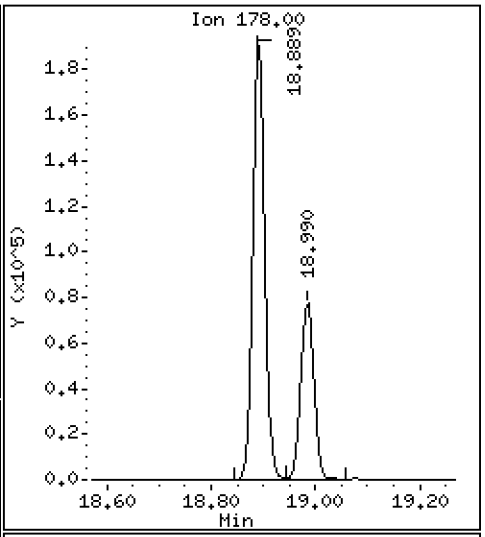
Column phase: ZB-5msi

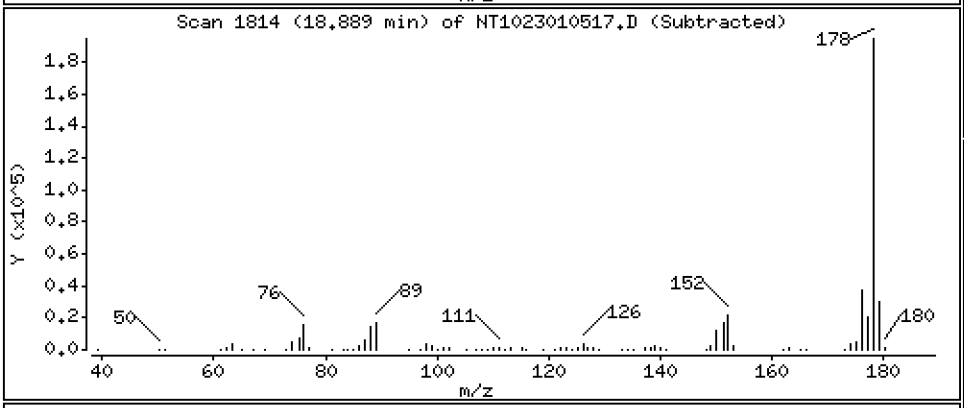
Column diameter: 0.25

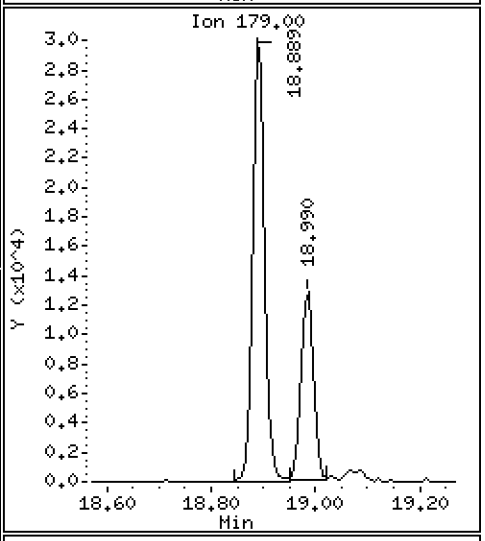
60 Phenanthrene

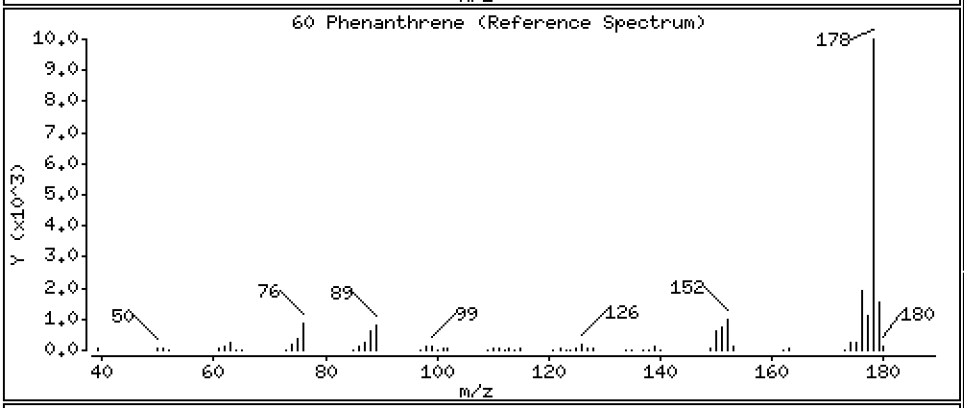
Concentration: 5.985 ug/mL

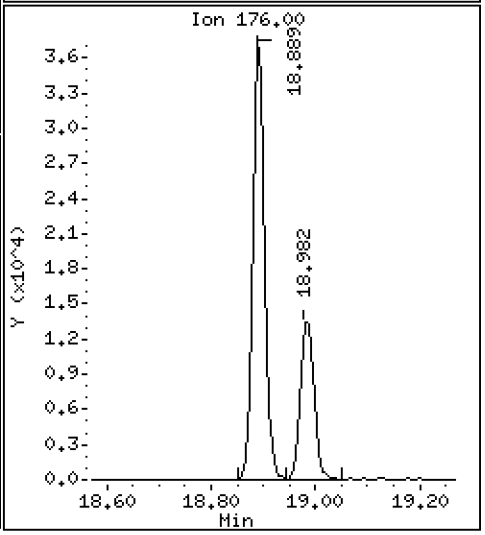


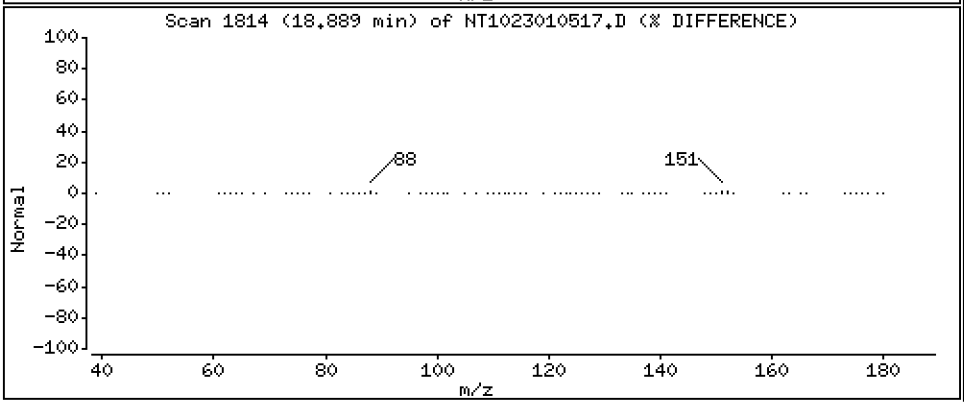












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

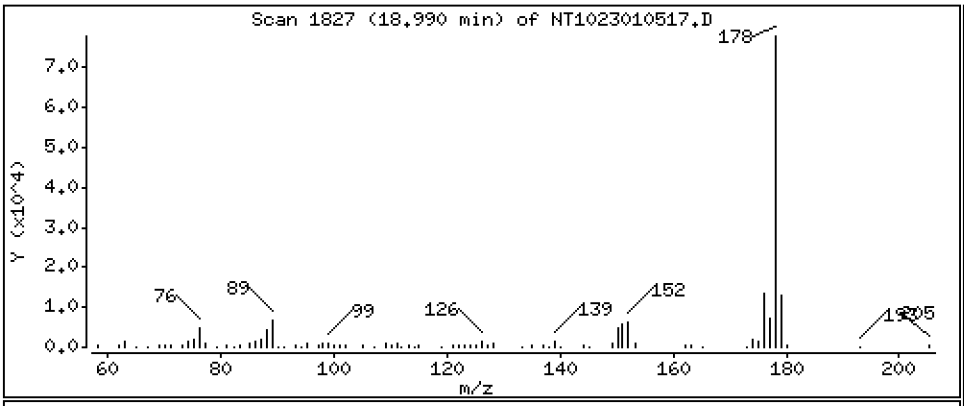
Operator: VTS

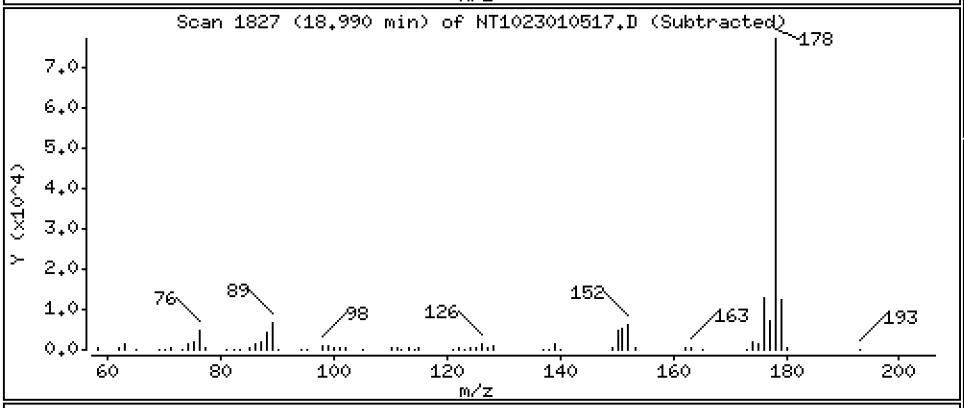
Column phase: ZB-5msi

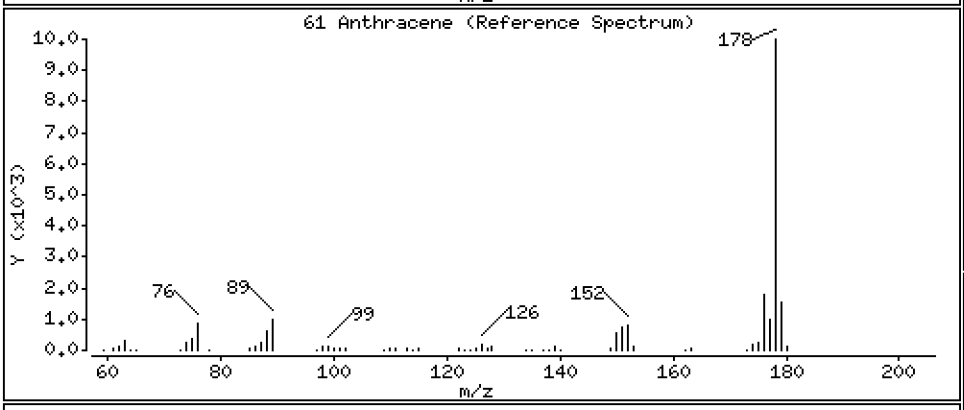
Column diameter: 0.25

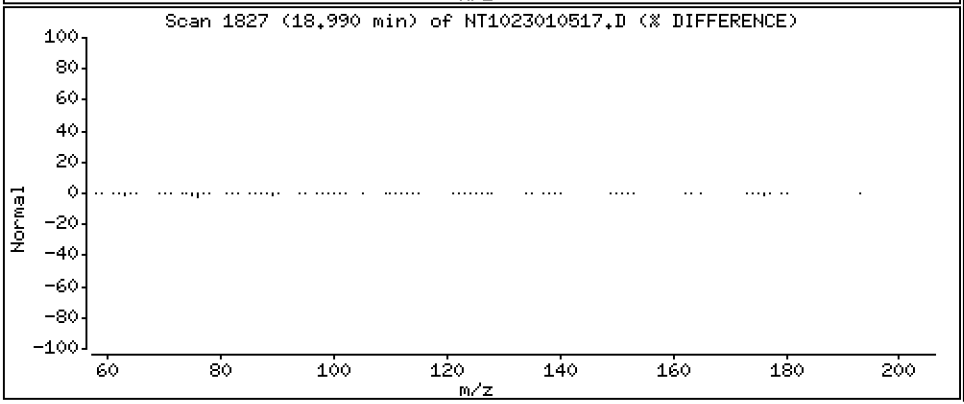
61 Anthracene

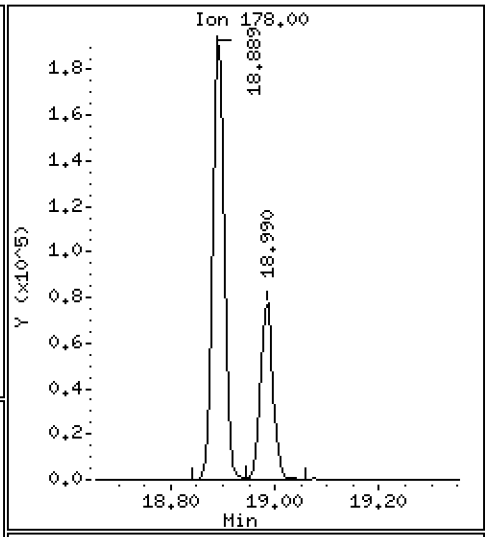
Concentration: 2.558 ug/mL

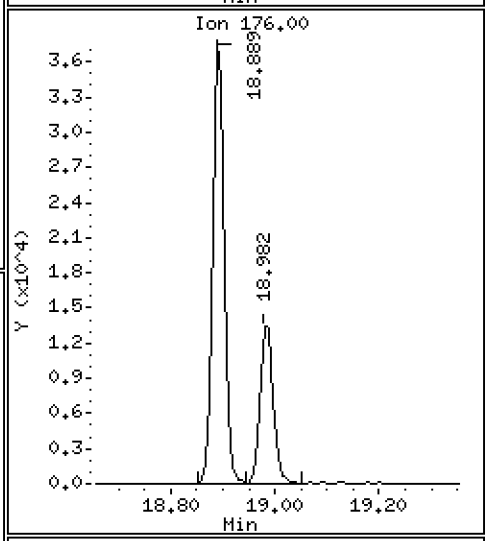


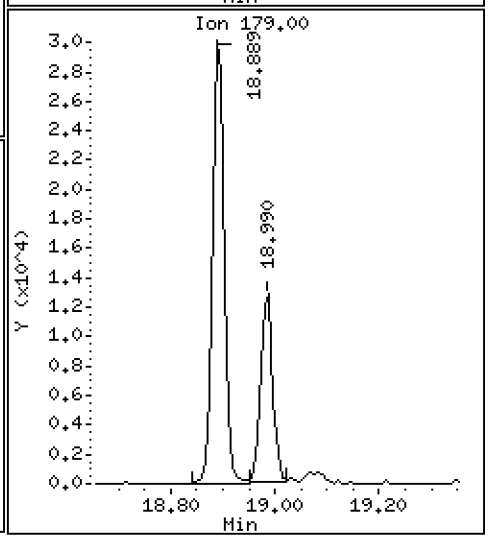












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

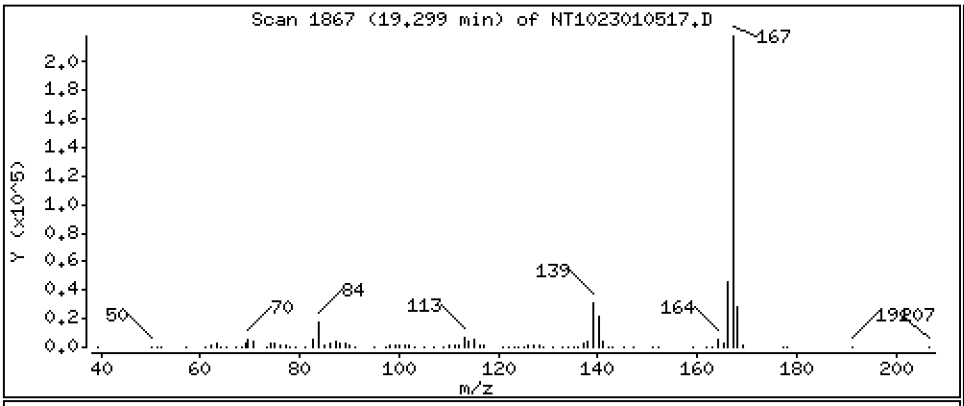
Operator: VTS

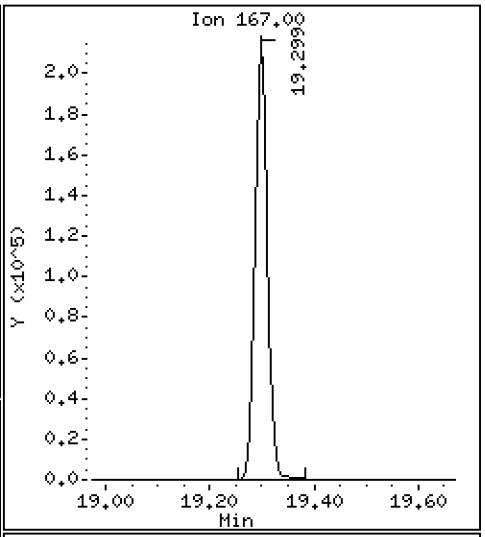
Column phase: ZB-5msi

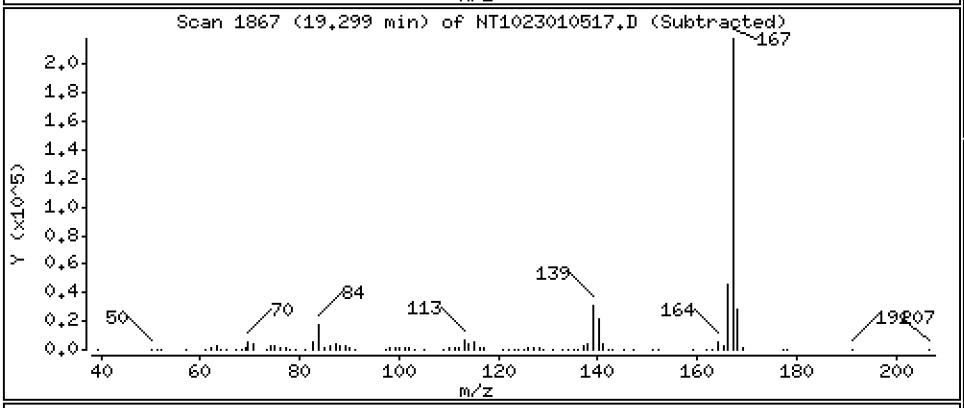
Column diameter: 0.25

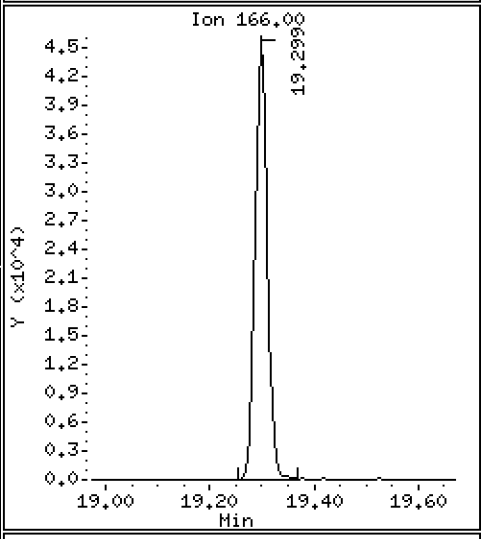
62 Carbazole

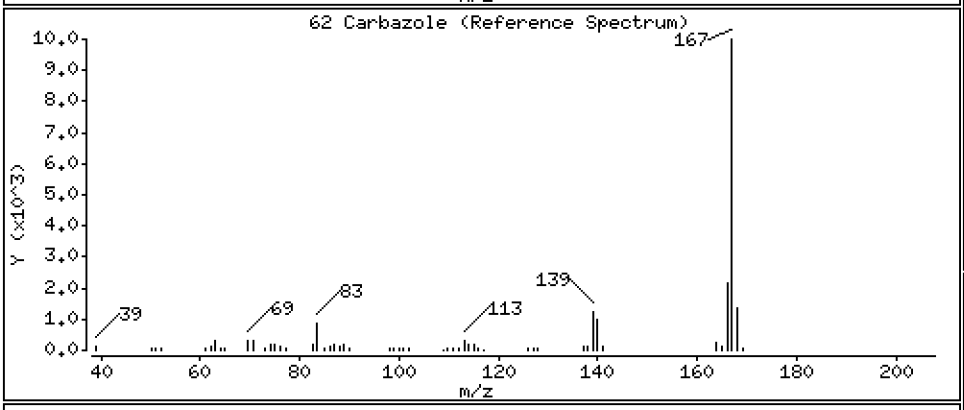
Concentration: 6.536 ug/mL

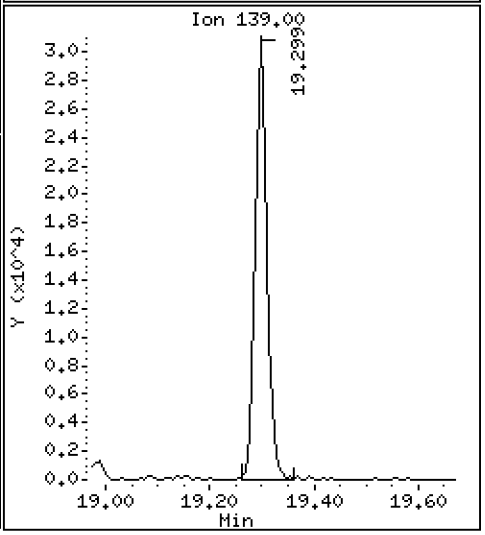


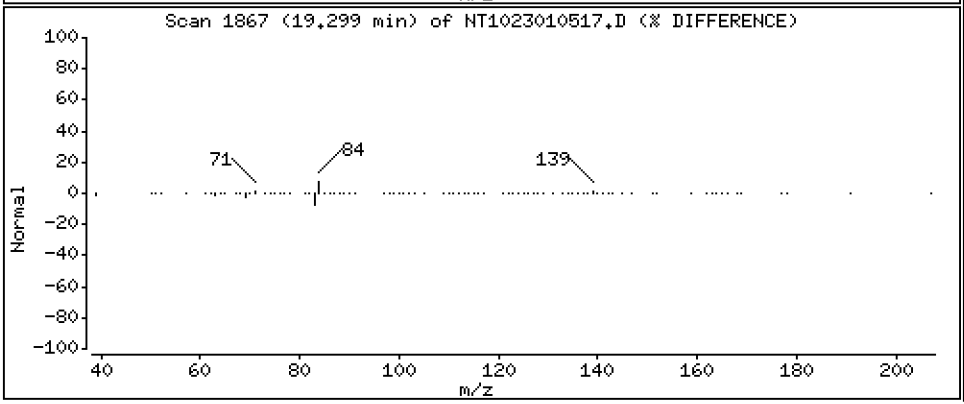












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

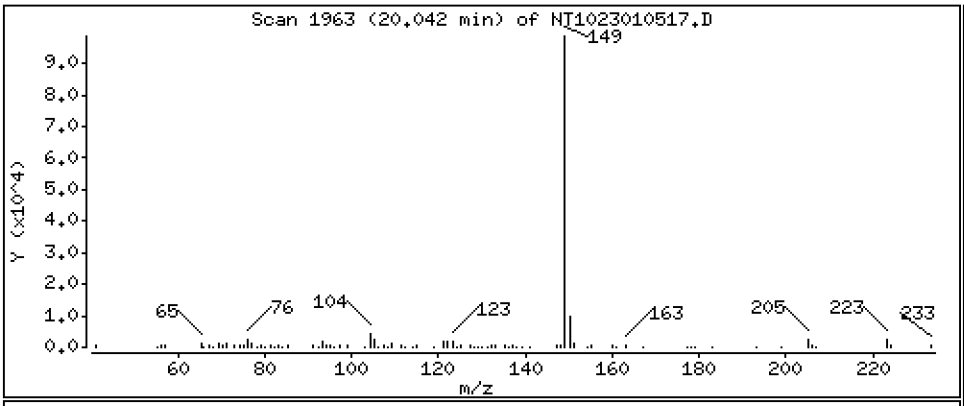
Operator: VTS

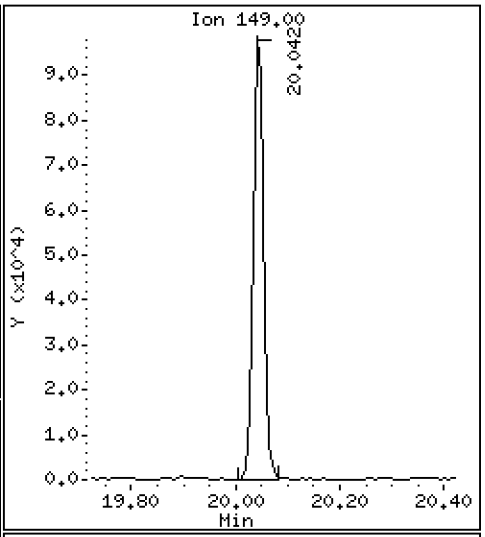
Column phase: ZB-5msi

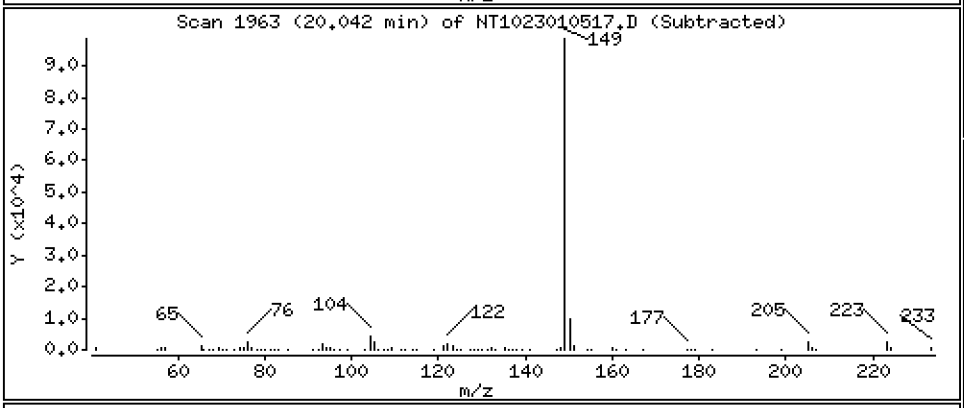
Column diameter: 0.25

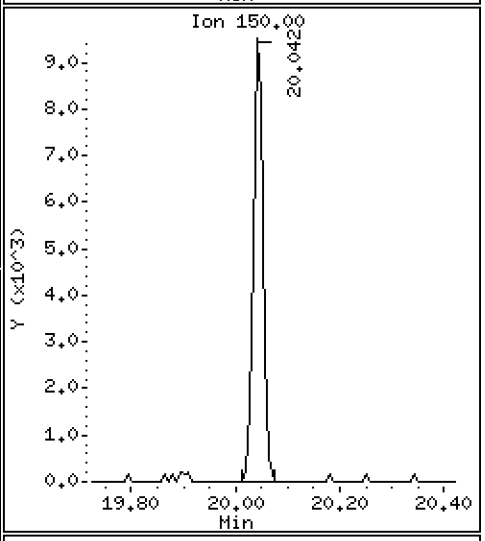
63 Di-n-butylphthalate

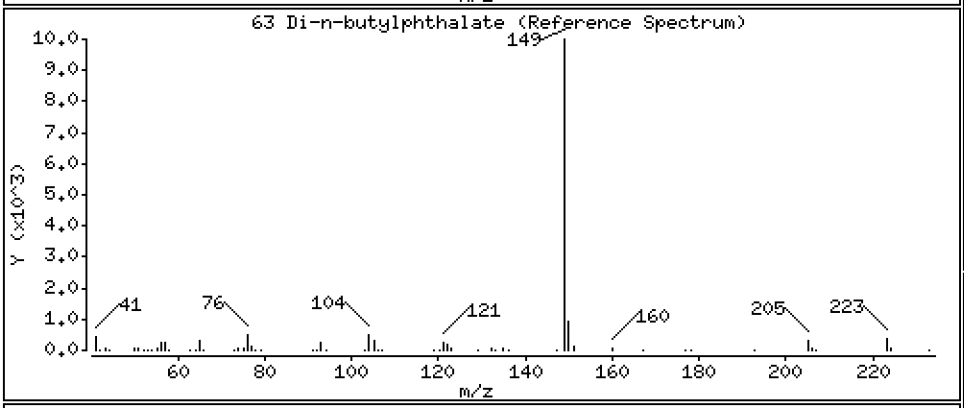
Concentration: 1.898 ug/mL

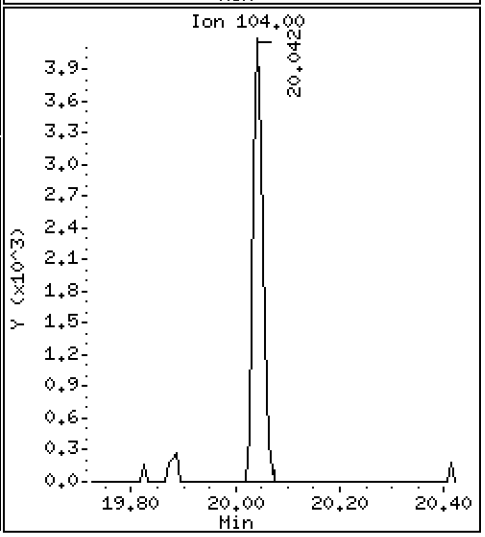


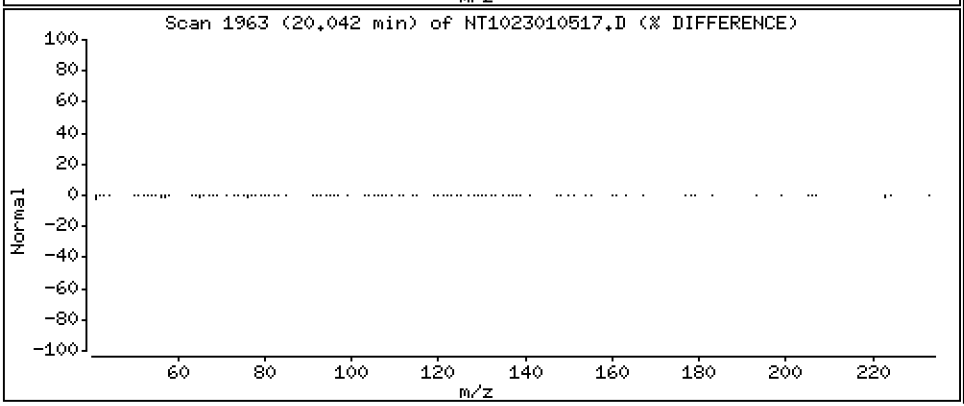












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

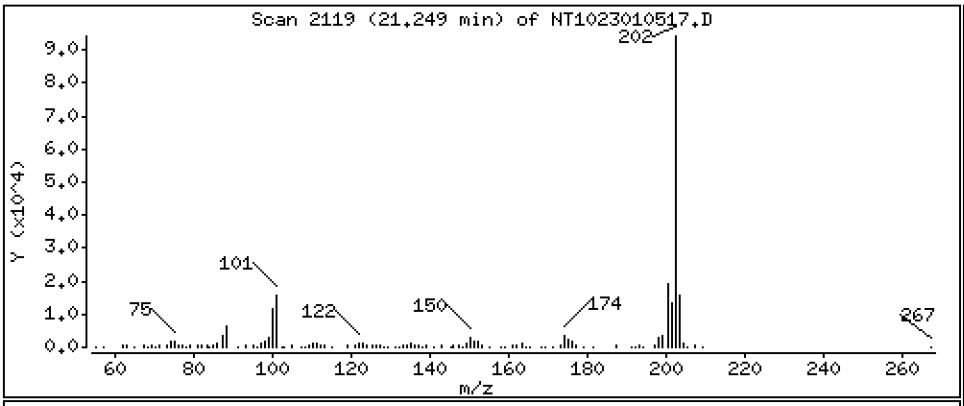
Operator: VTS

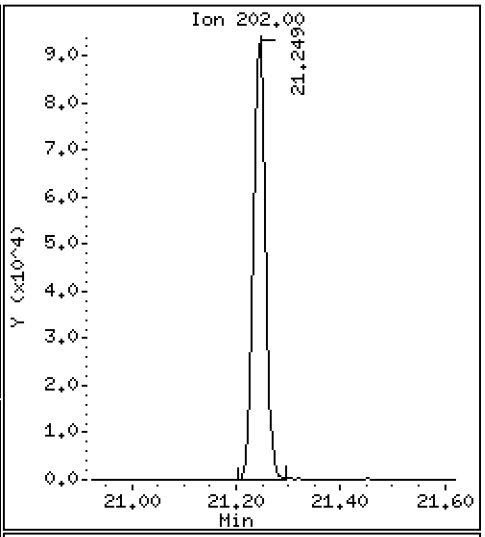
Column phase: ZB-5msi

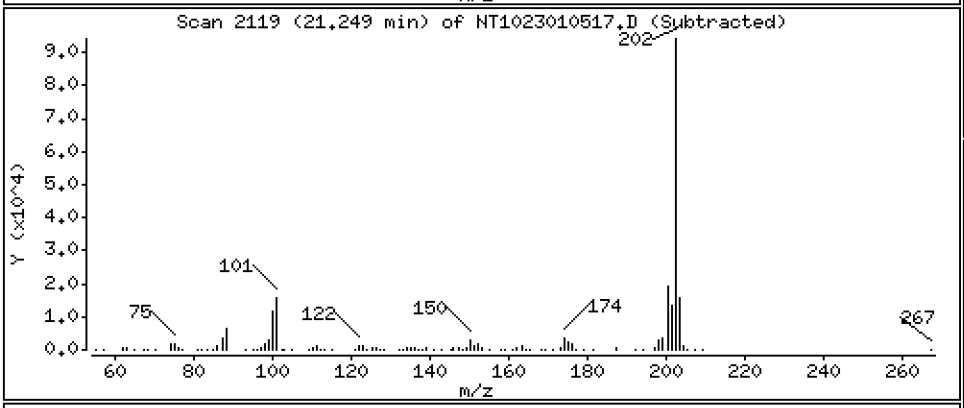
Column diameter: 0.25

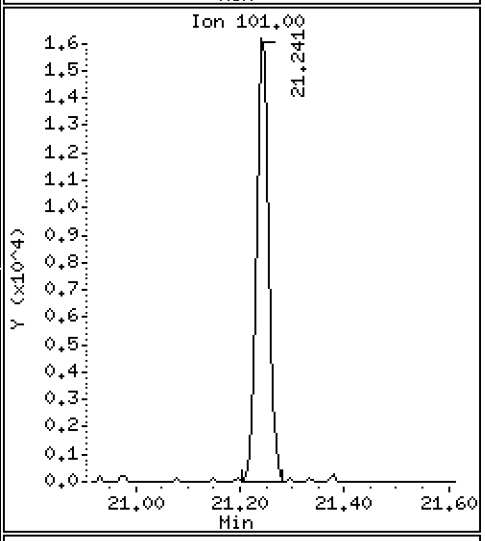
64 Fluoranthene

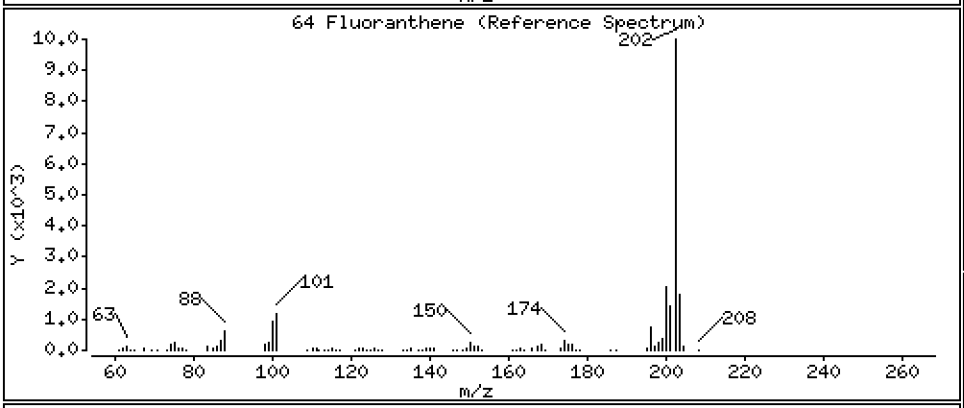
Concentration: 3.149 ug/mL

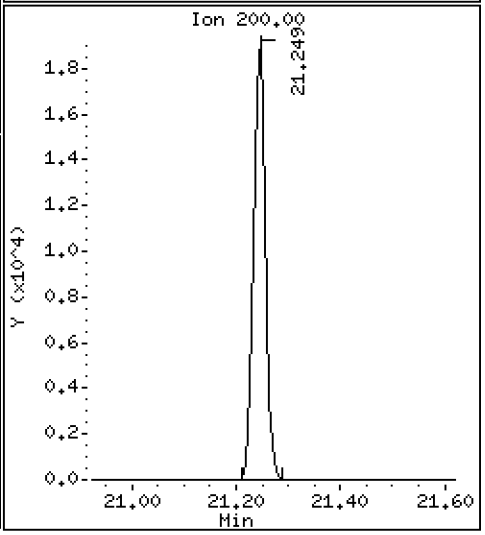


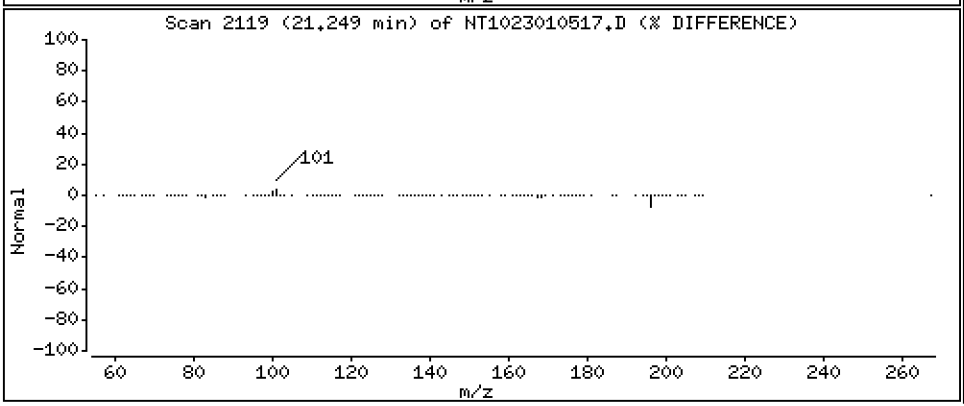












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

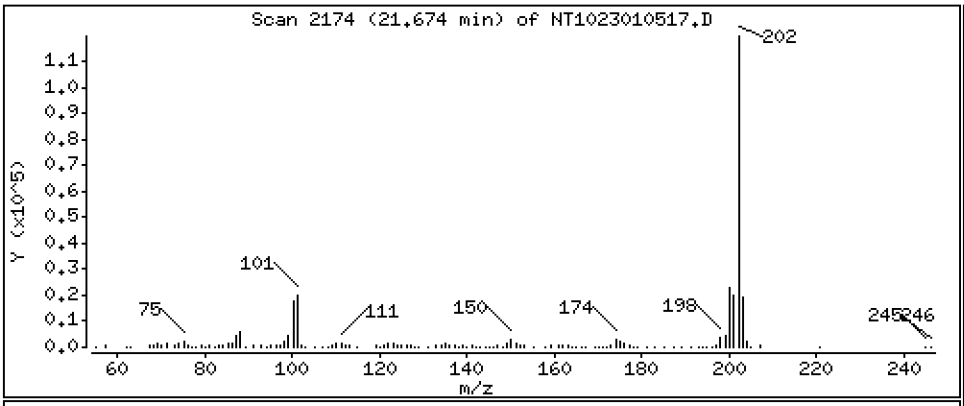
Operator: VTS

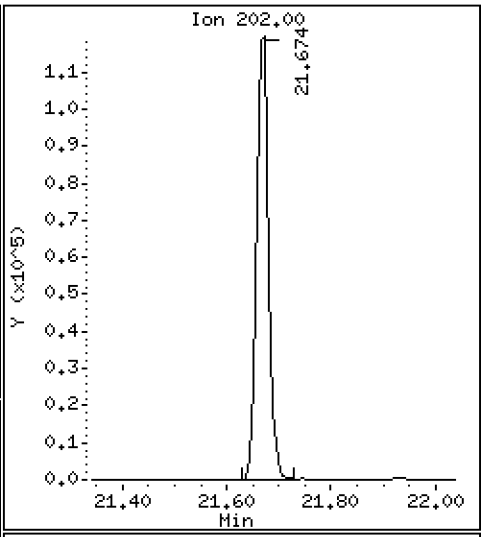
Column phase: ZB-5msi

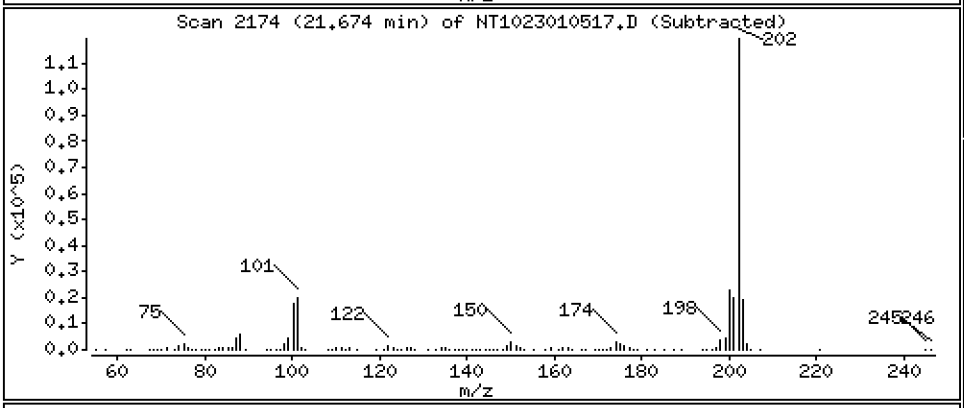
Column diameter: 0.25

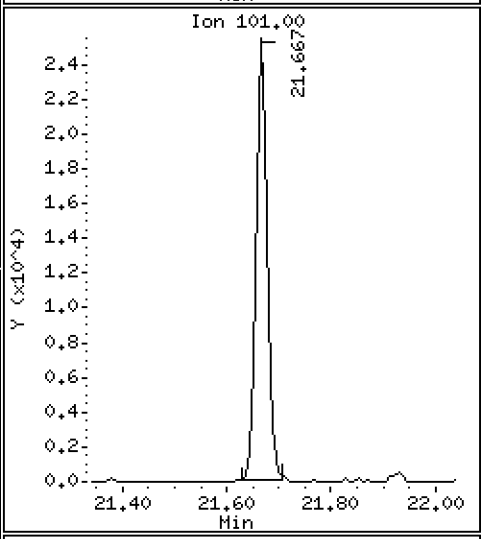
65 Pyrene

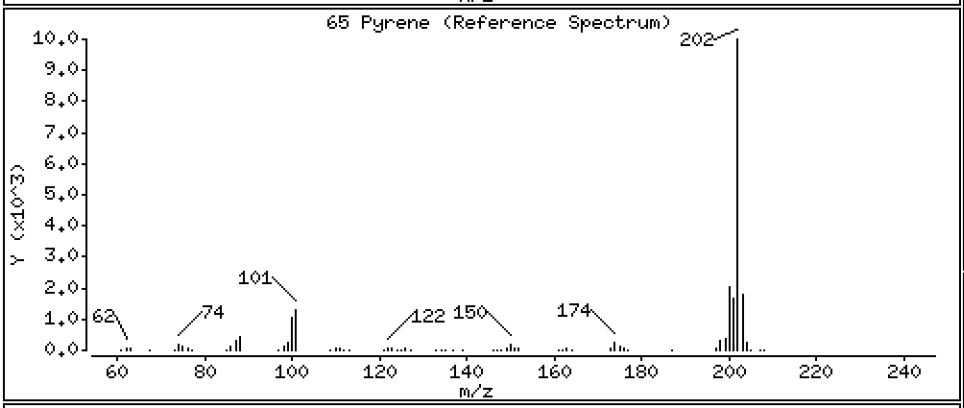
Concentration: 3.914 ug/mL

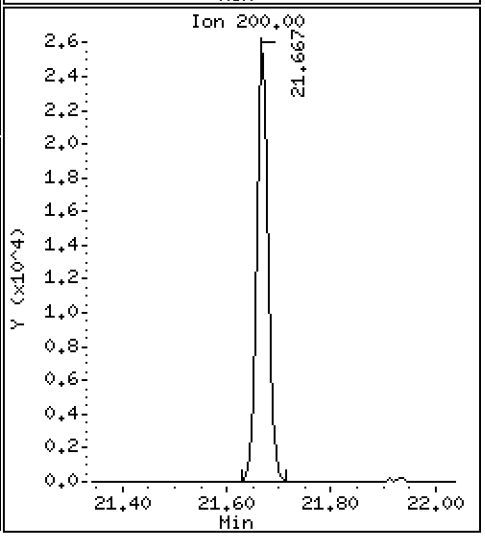


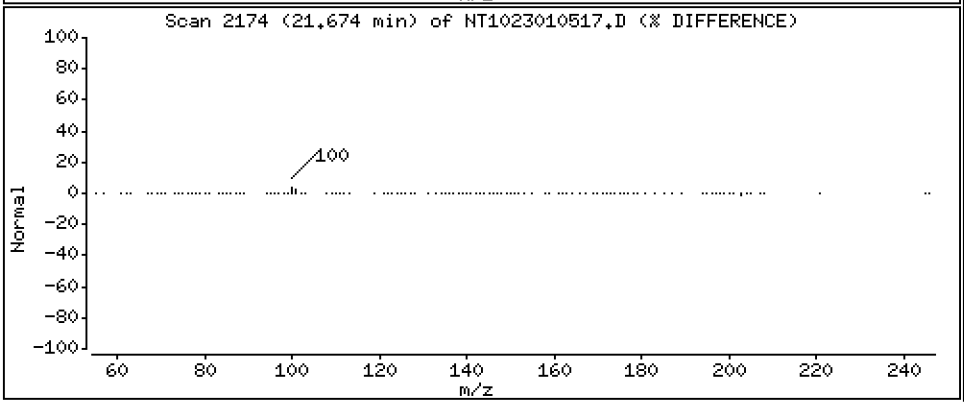












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

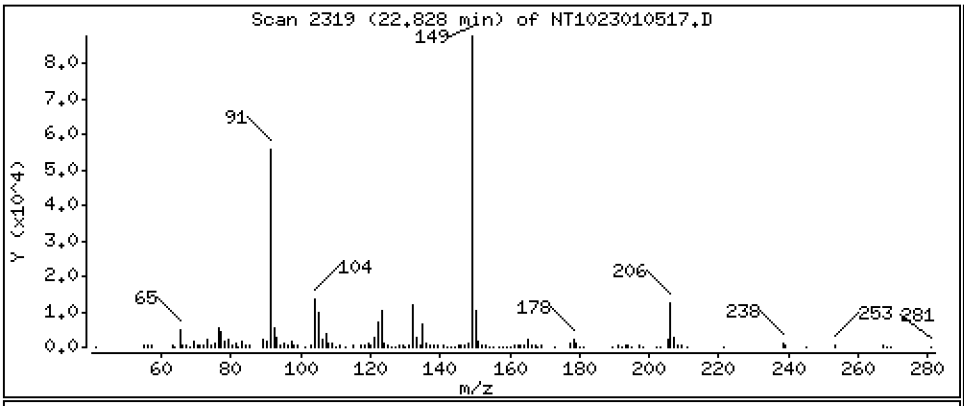
Operator: VTS

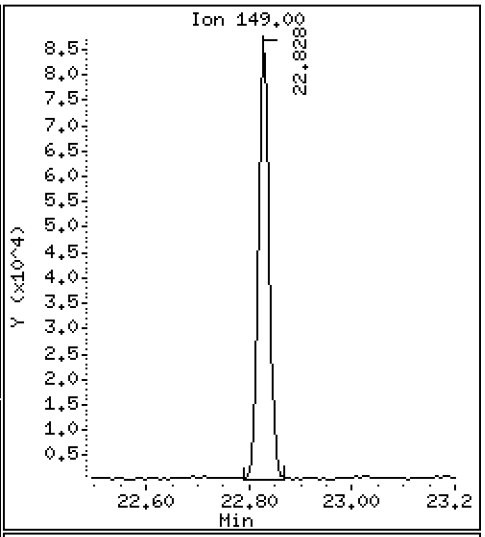
Column phase: ZB-5msi

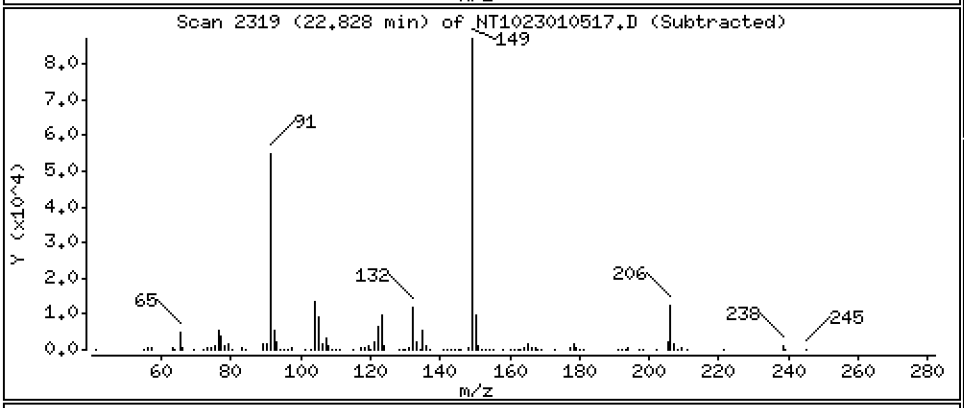
Column diameter: 0.25

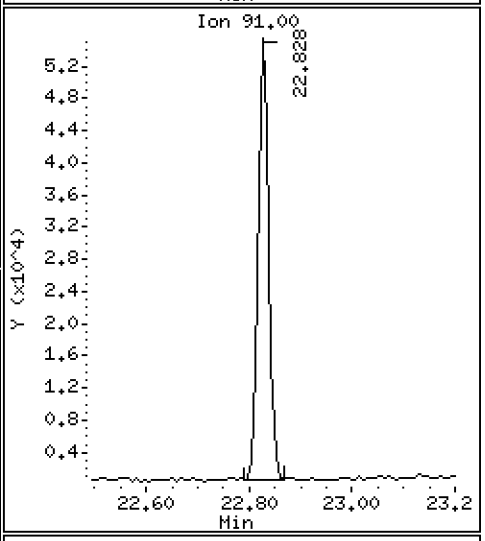
67 Butylbenzylphthalate

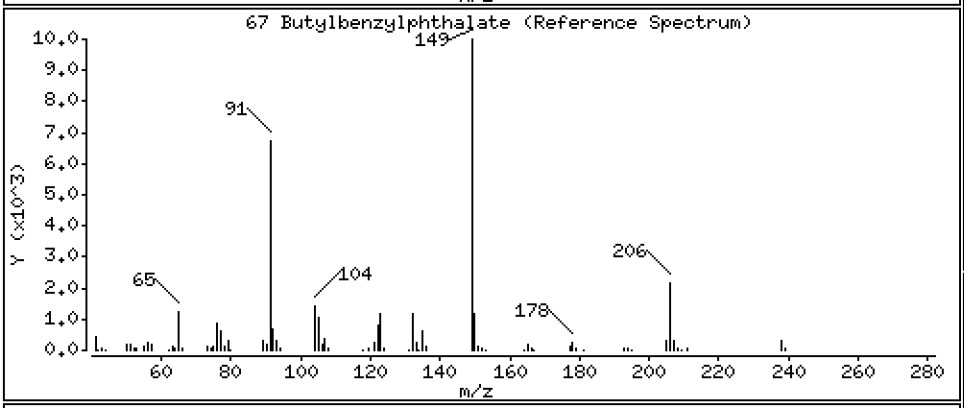
Concentration: 4.579 ug/mL

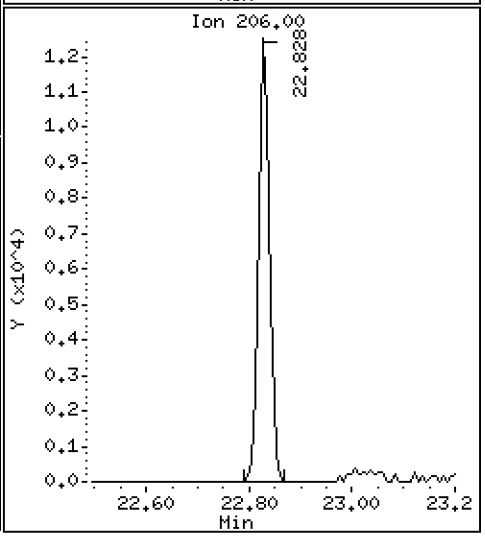


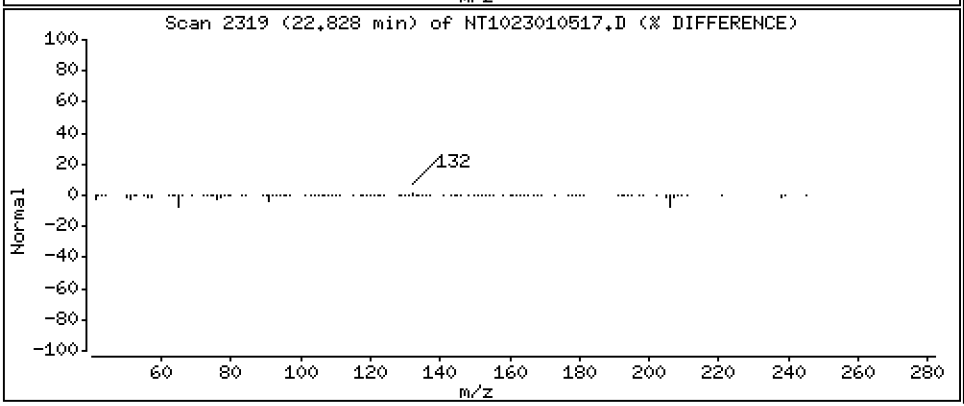












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

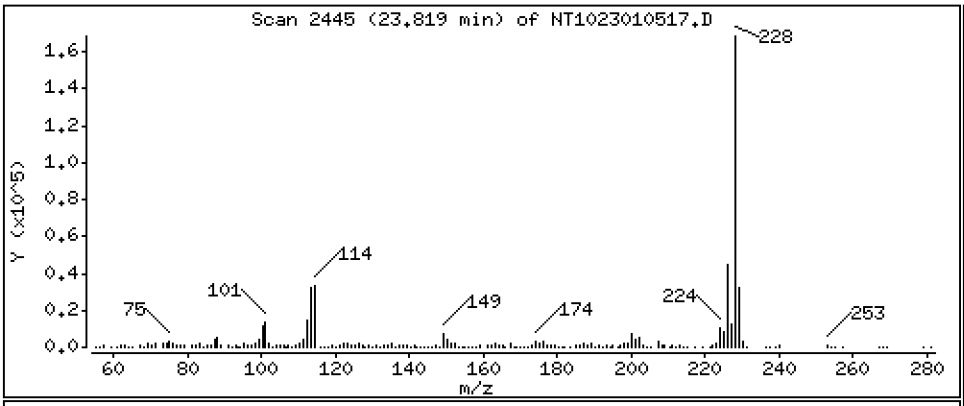
Operator: VTS

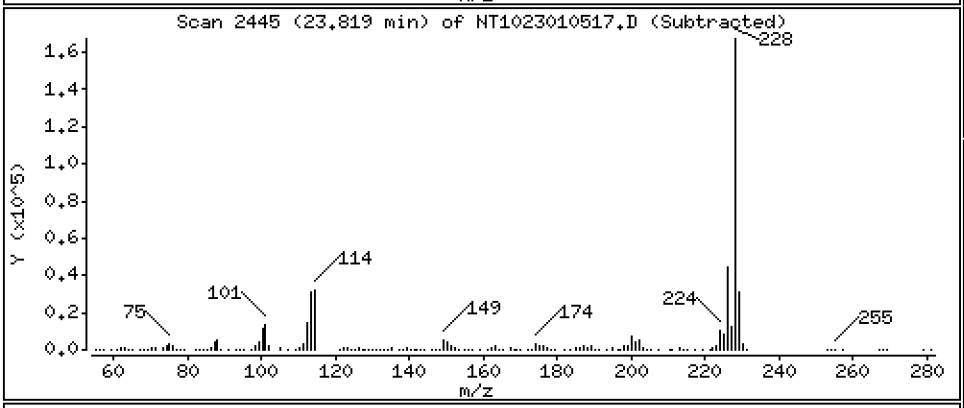
Column phase: ZB-5msi

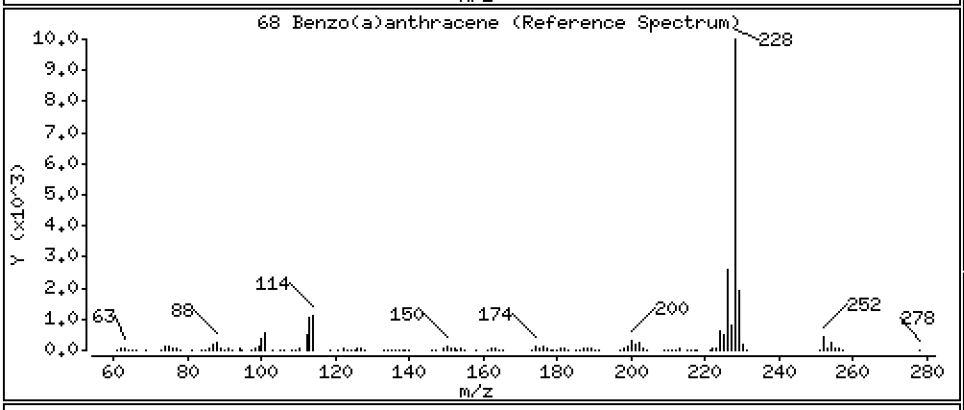
Column diameter: 0.25

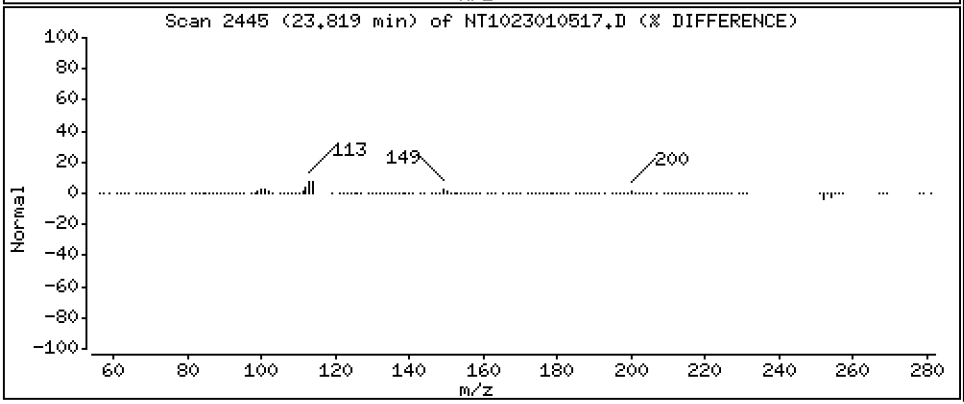
68 Benzo(a)anthracene

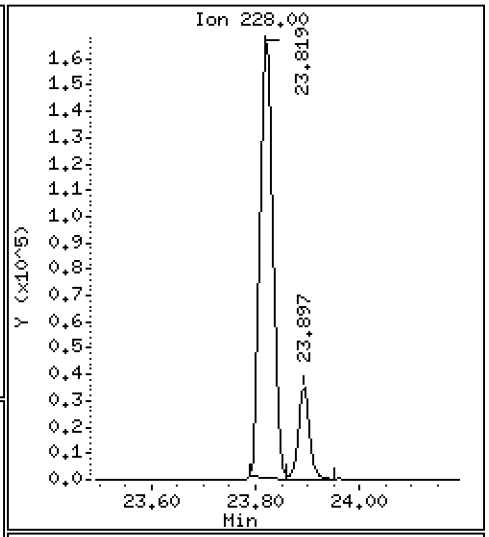
Concentration: 7.446 ug/mL

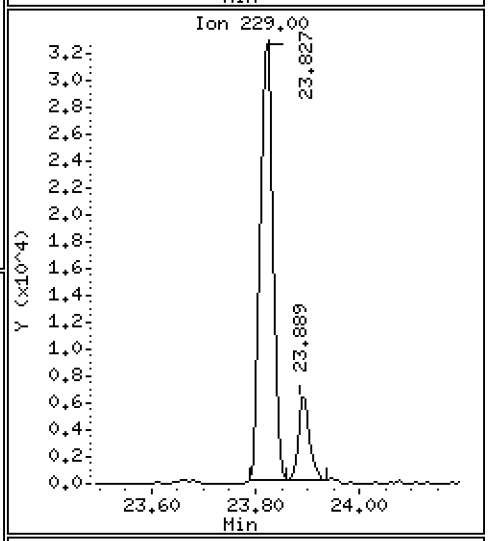


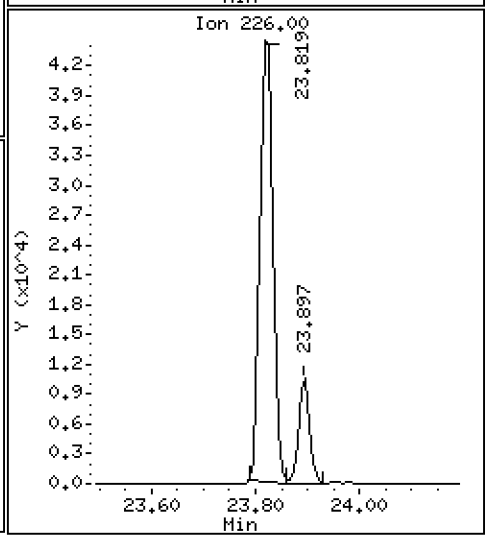












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

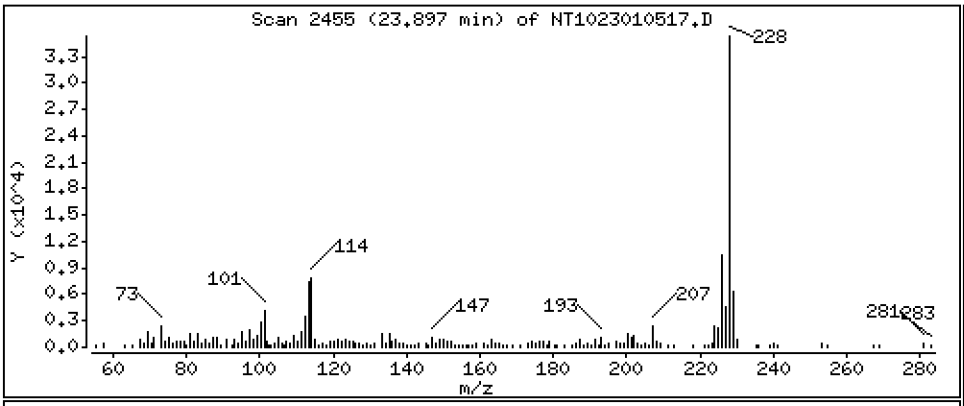
Operator: VTS

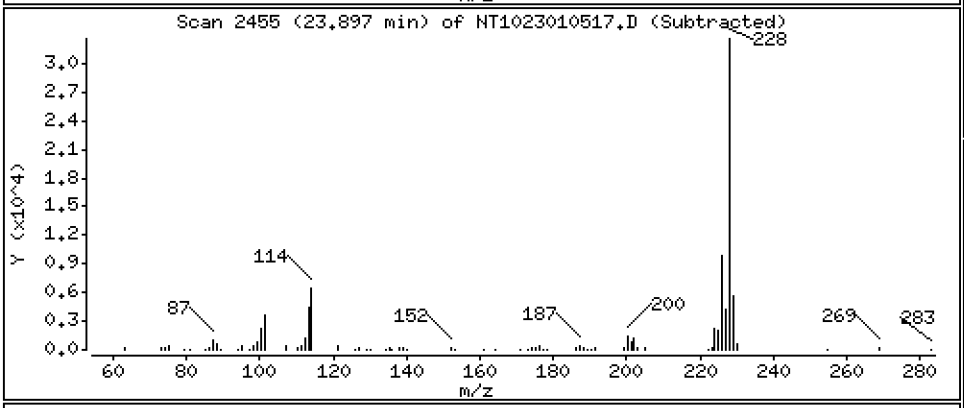
Column phase: ZB-5msi

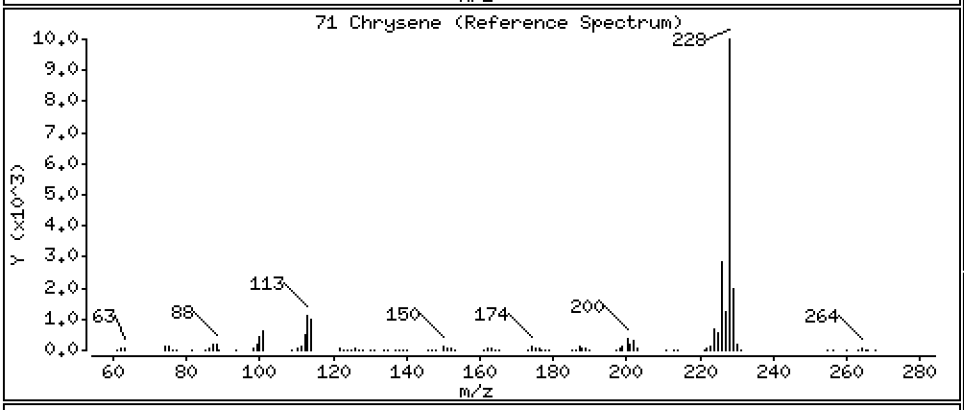
Column diameter: 0.25

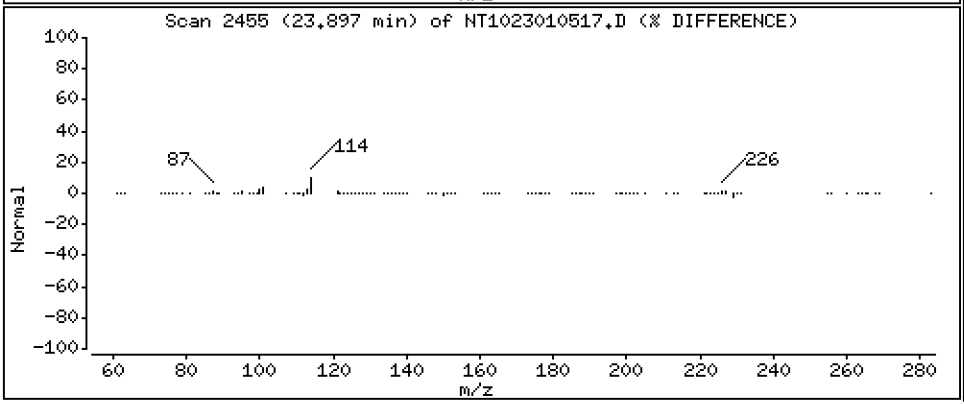
71 Chrysene

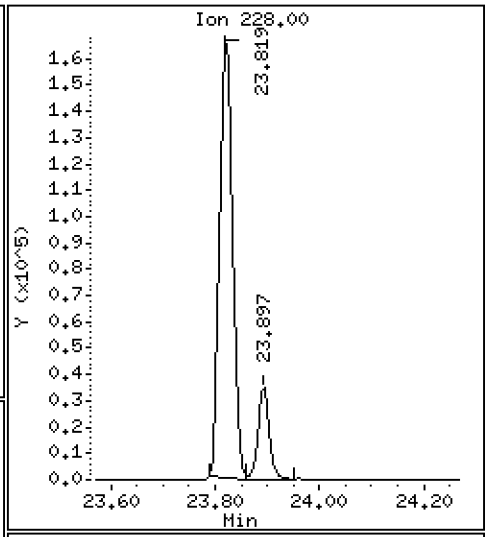
Concentration: 1.791 ug/mL

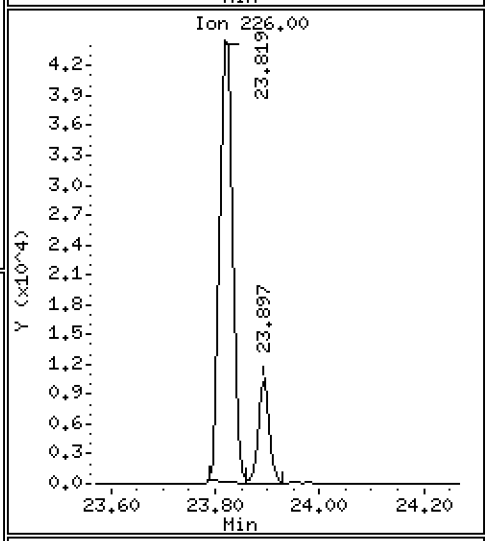


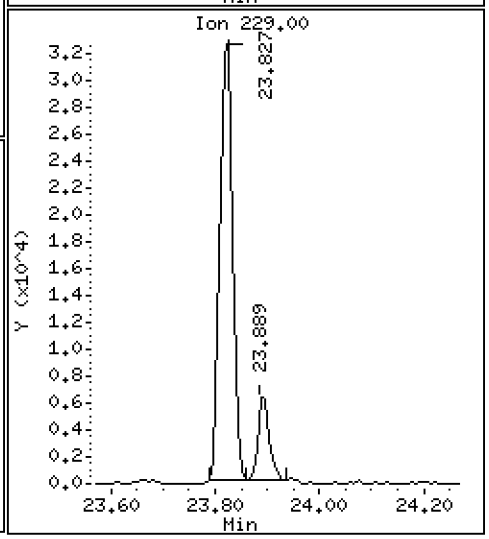












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

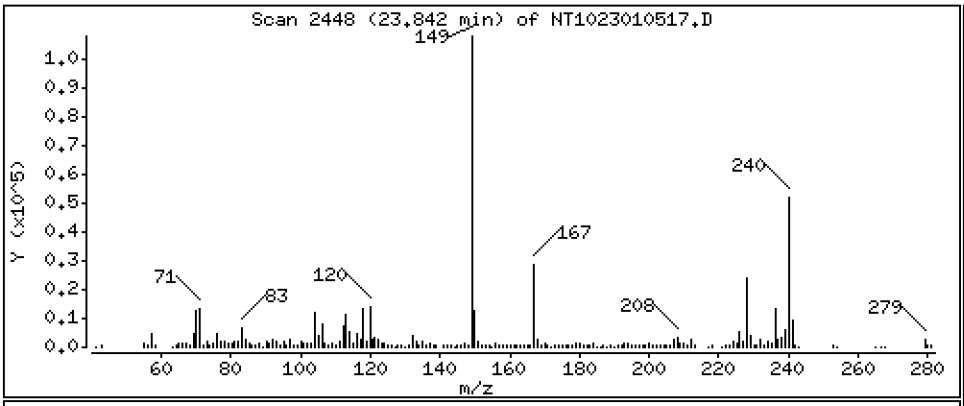
Operator: VTS

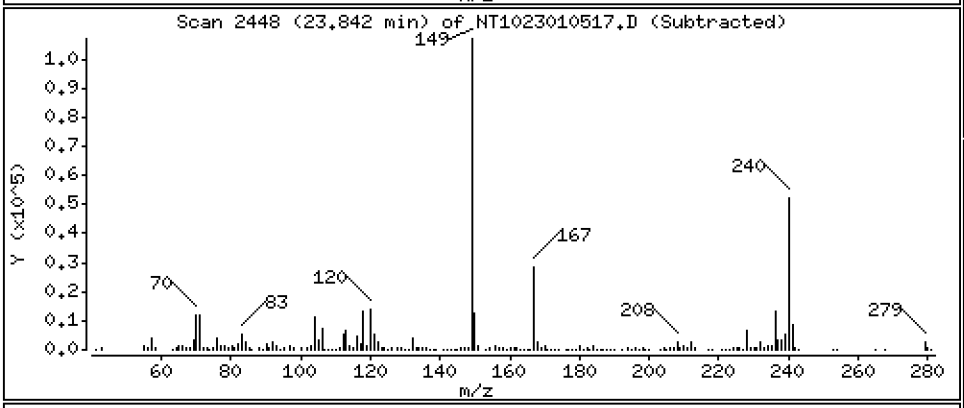
Column phase: ZB-5msi

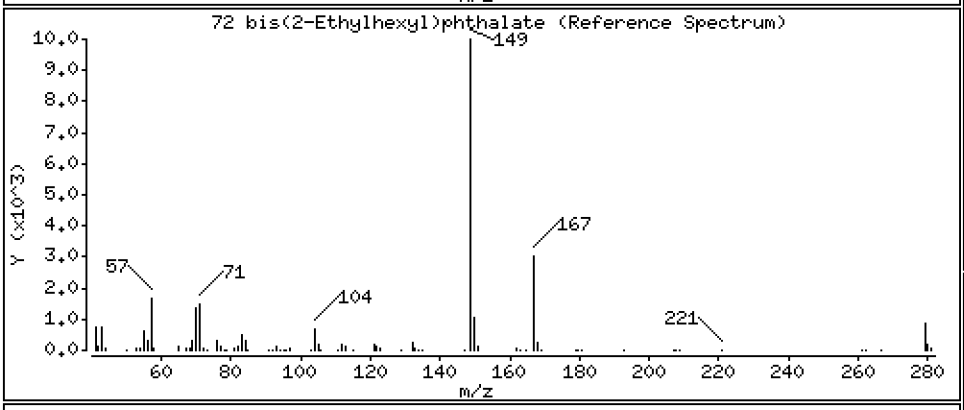
Column diameter: 0.25

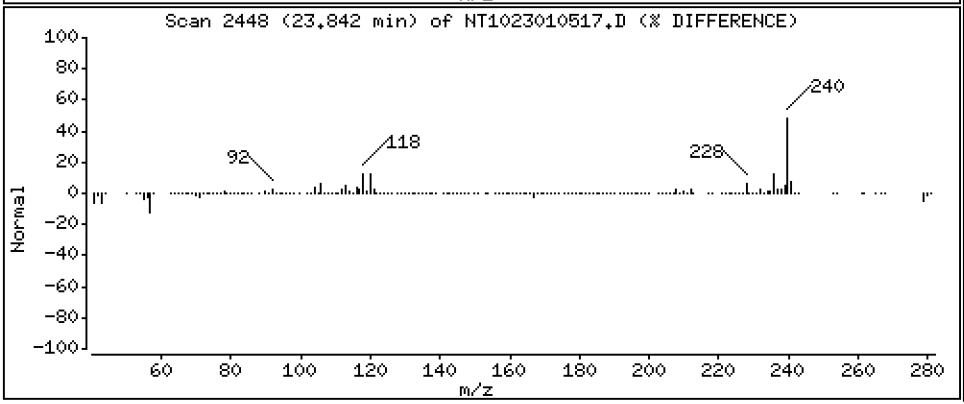
72 bis(2-Ethylhexyl)phthalate

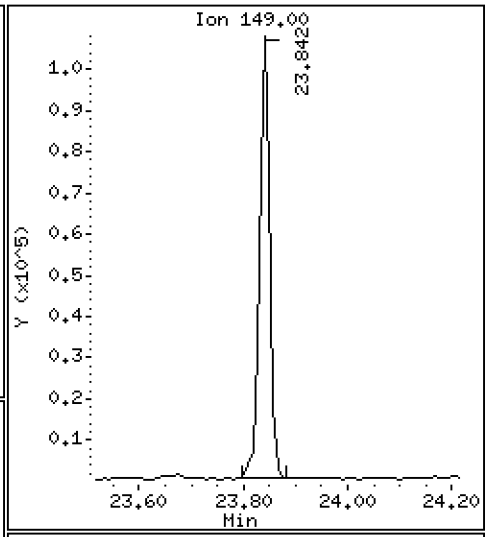
Concentration: 3.629 ug/mL

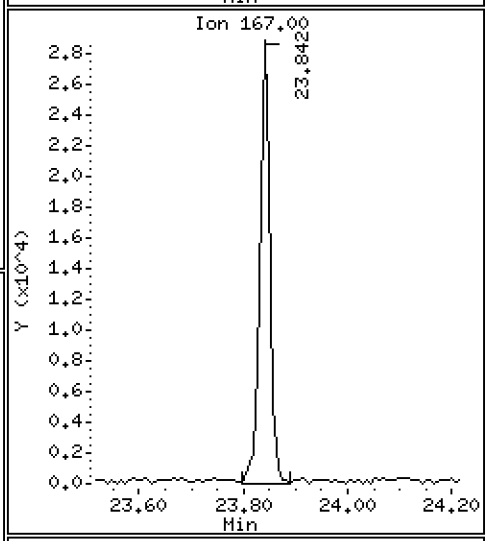


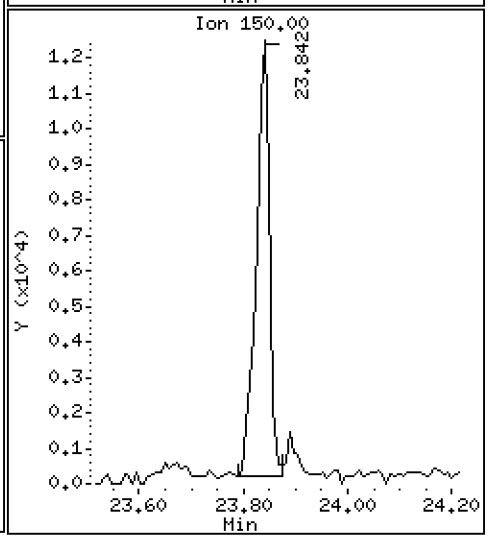












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

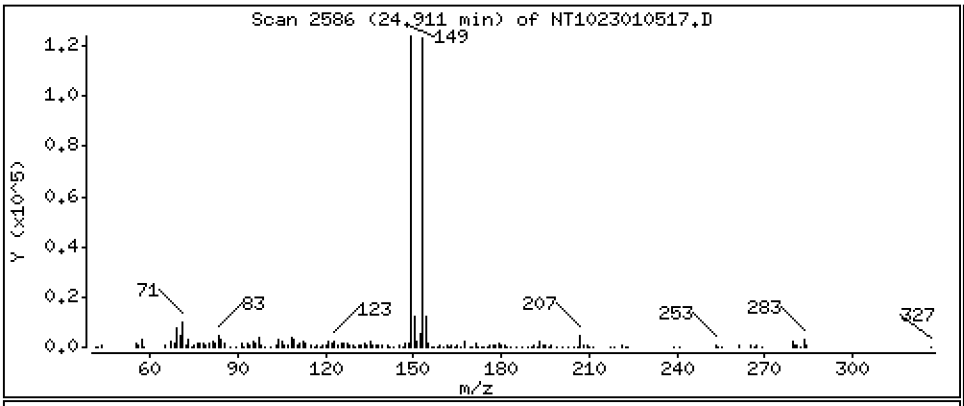
Operator: VTS

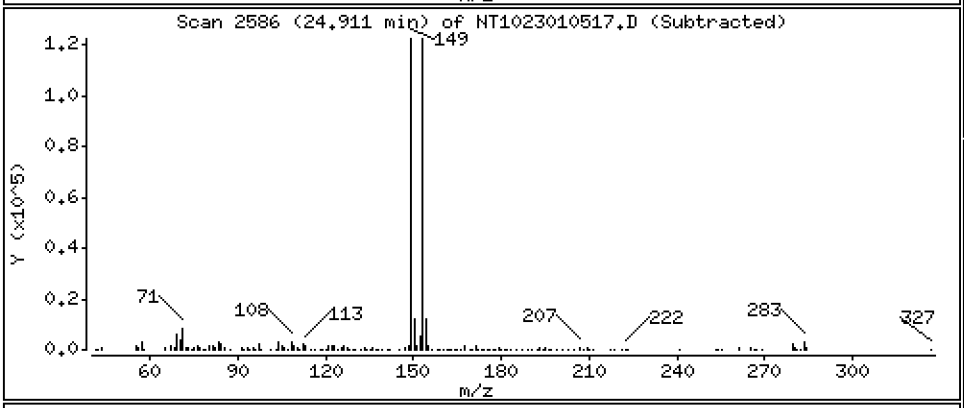
Column phase: ZB-5msi

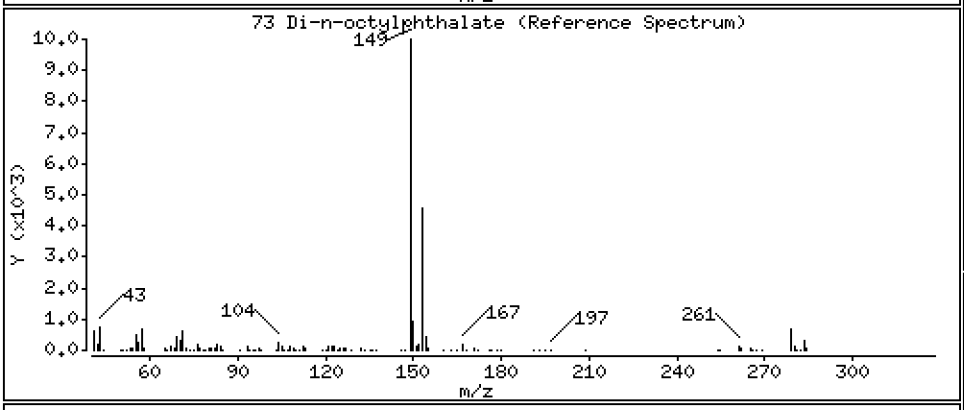
Column diameter: 0.25

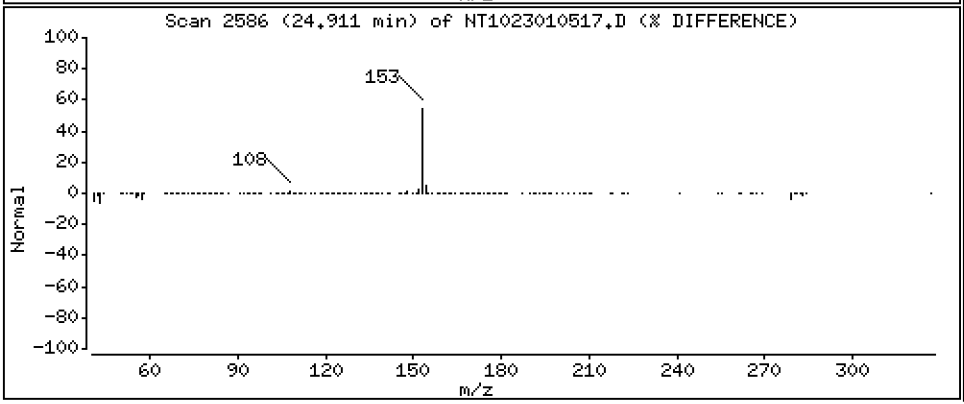
73 Di-n-octylphthalate

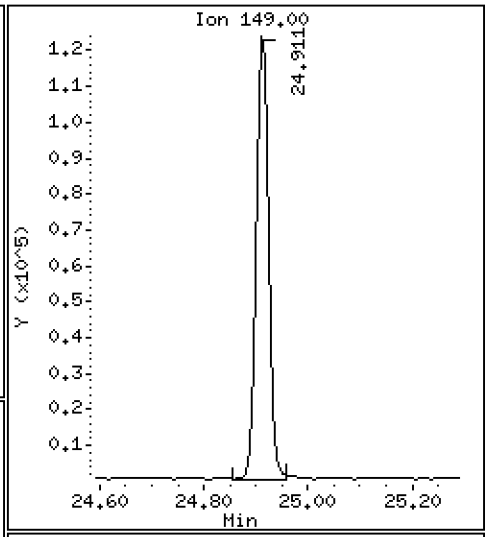
Concentration: 2.890 ug/mL

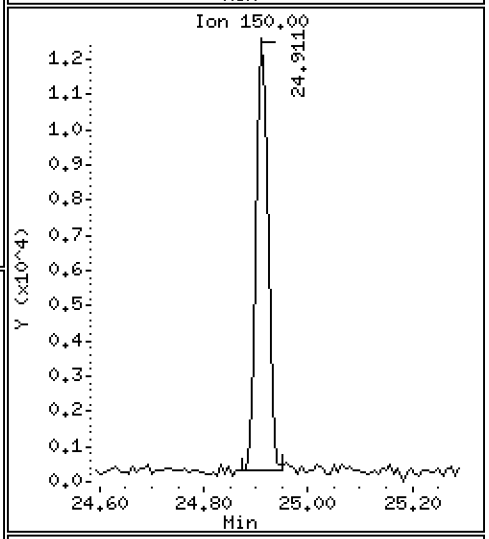


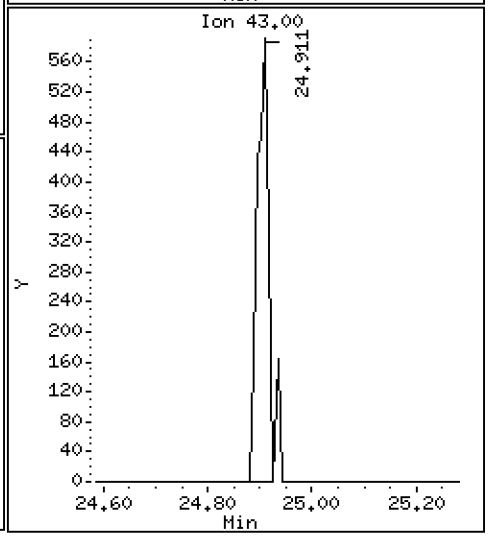












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

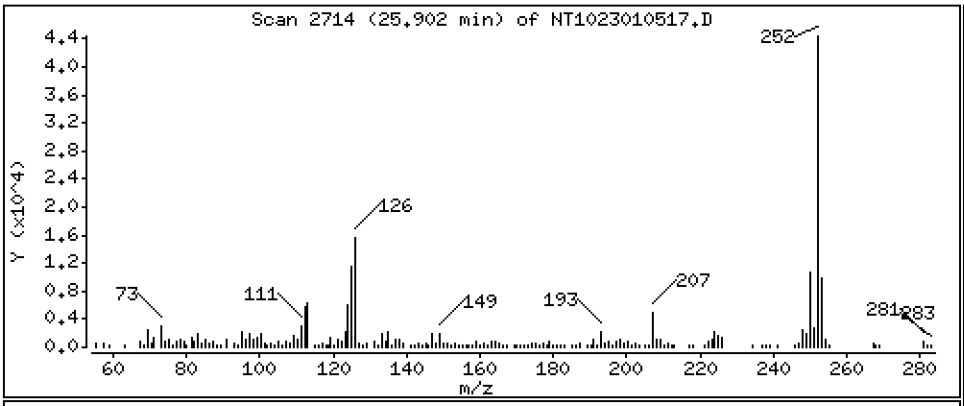
Operator: VTS

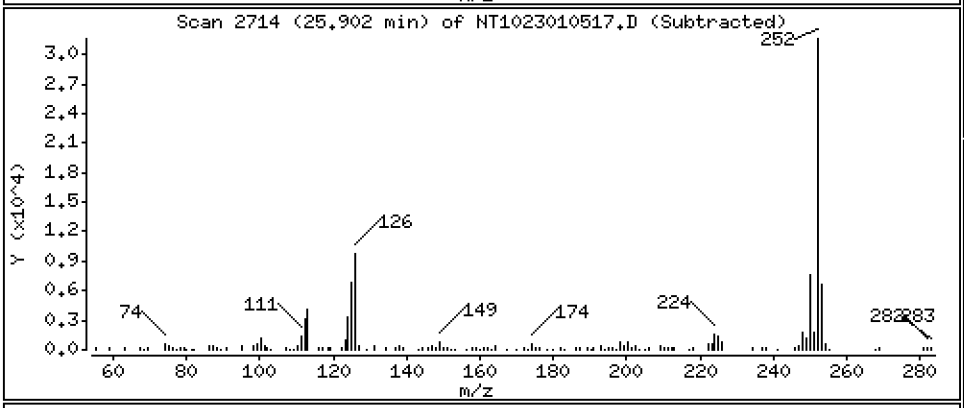
Column phase: ZB-5msi

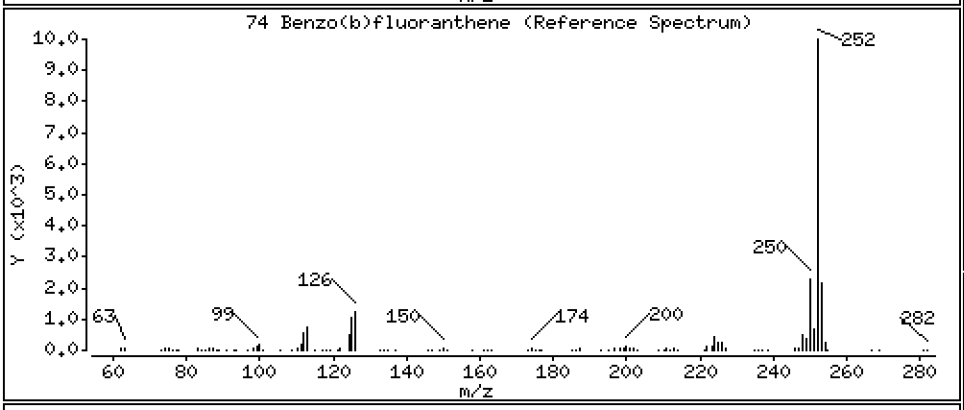
Column diameter: 0.25

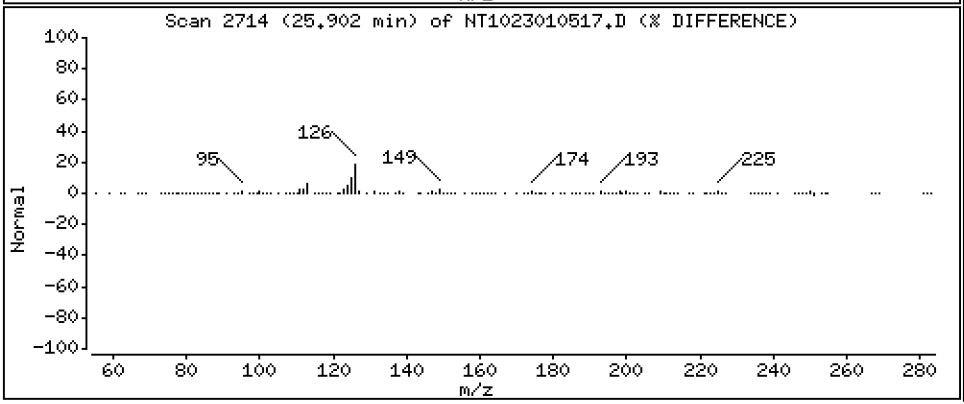
74 Benzo(b)fluoranthene

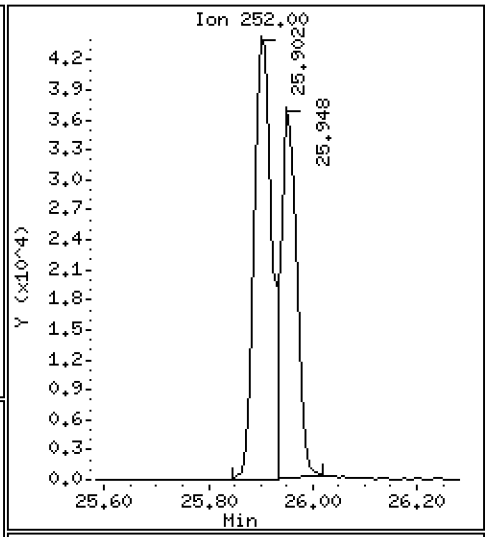
Concentration: 3.659 ug/mL

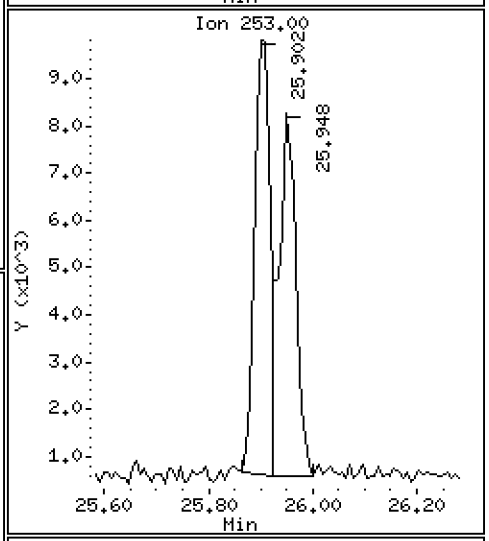


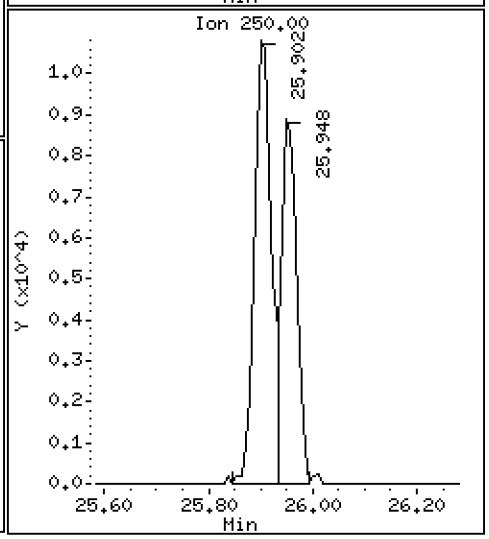












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

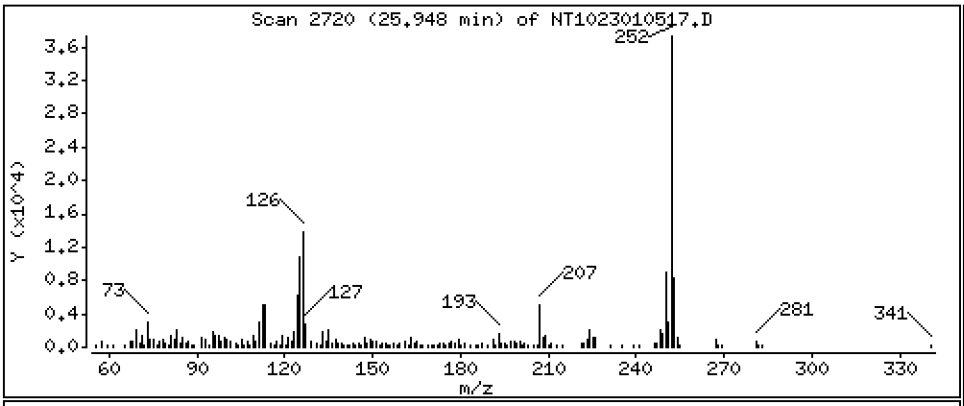
Operator: VTS

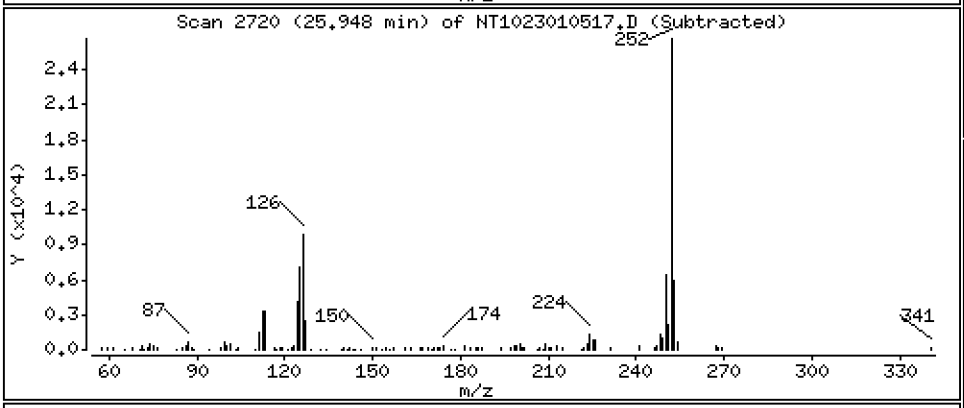
Column phase: ZB-5msi

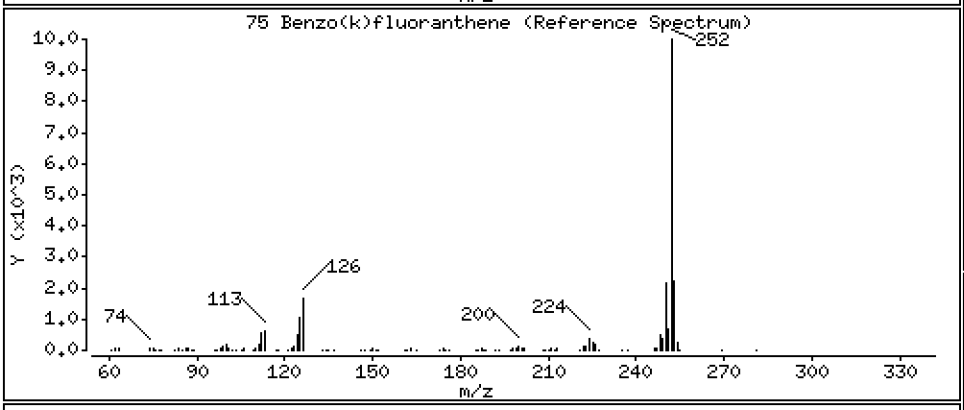
Column diameter: 0.25

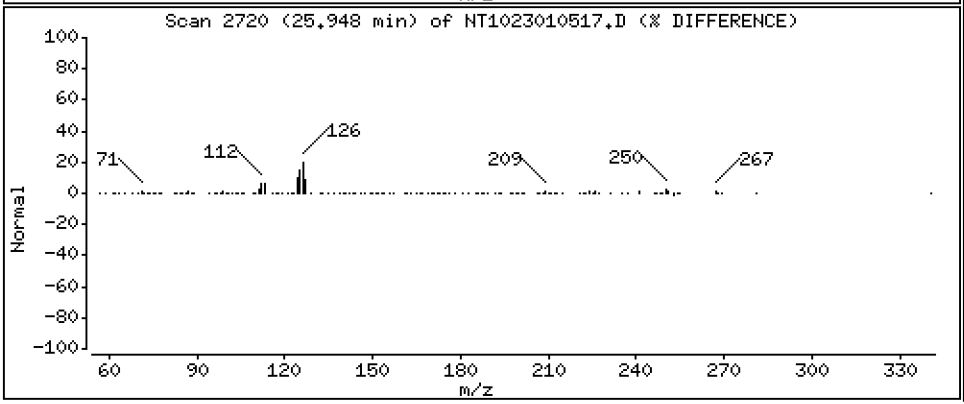
75 Benzo(k)fluoranthene

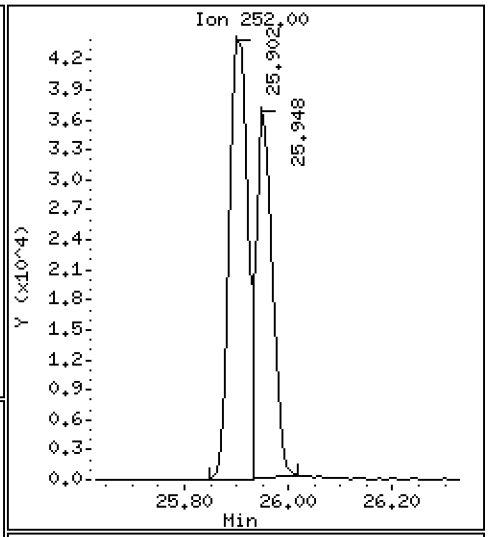
Concentration: 2.833 ug/mL

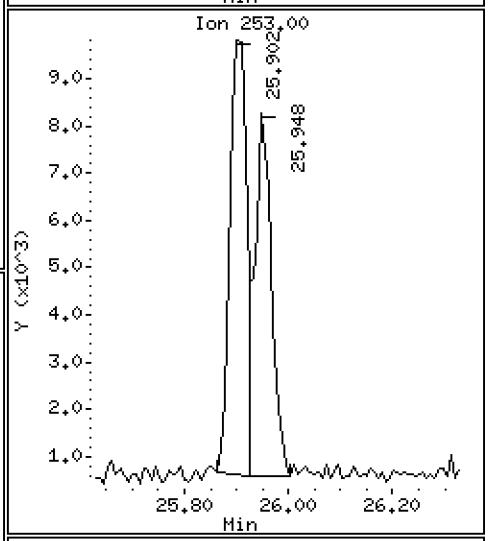


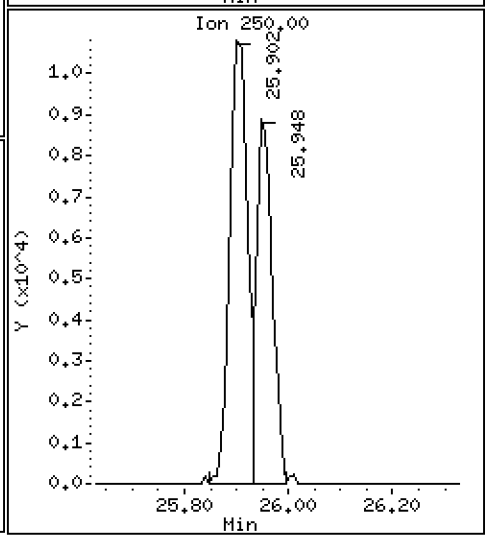












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

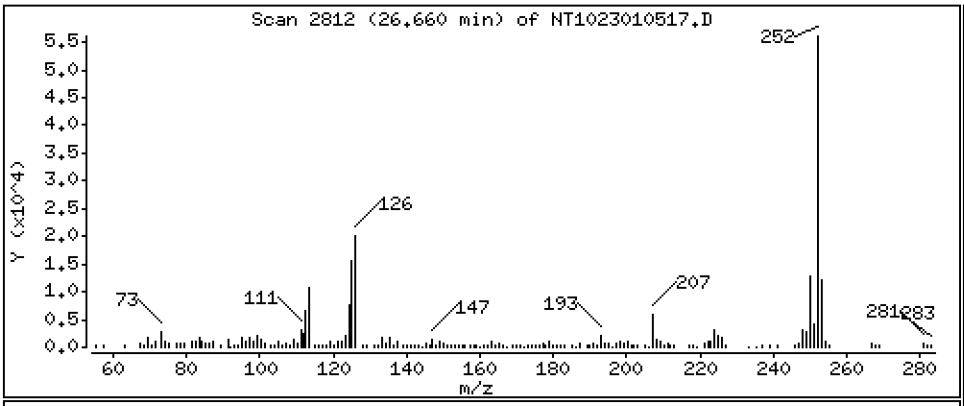
Operator: VTS

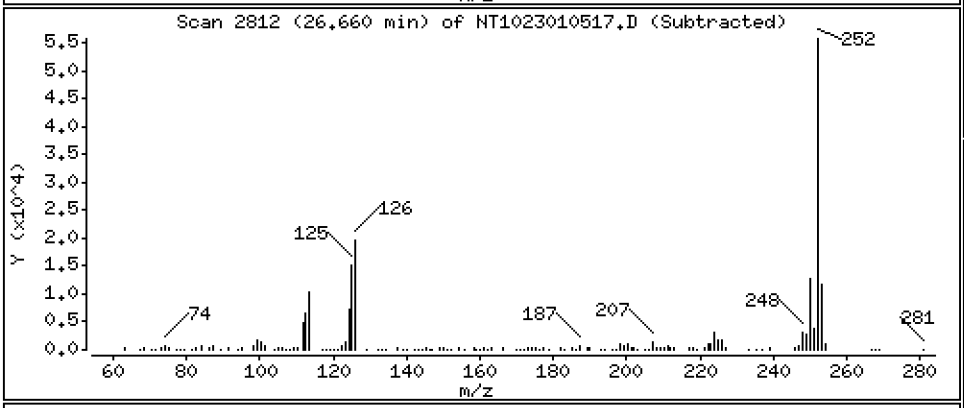
Column phase: ZB-5msi

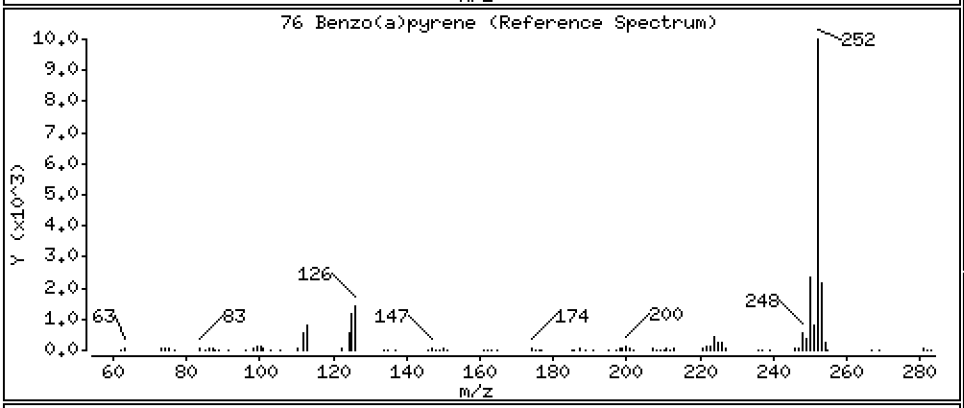
Column diameter: 0.25

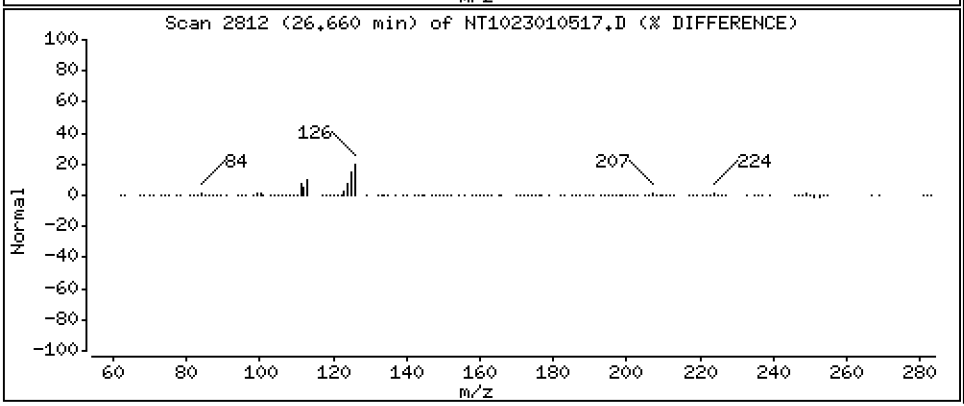
76 Benzo(a)pyrene

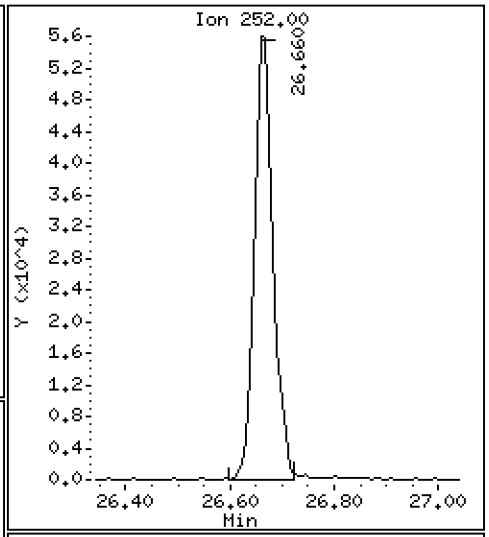
Concentration: 5.451 ug/mL

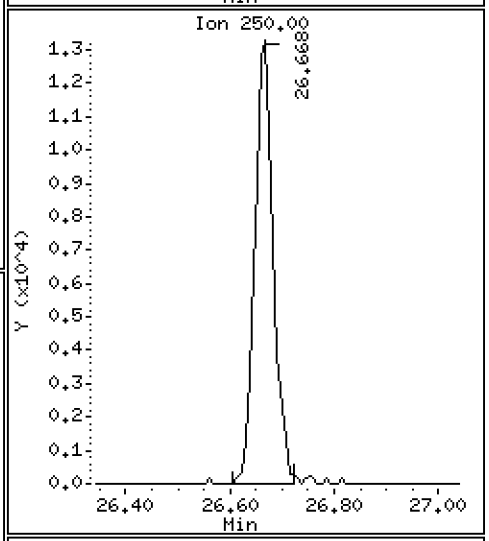


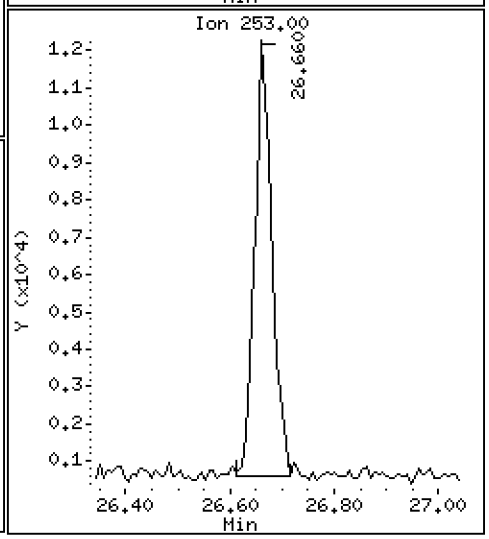












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

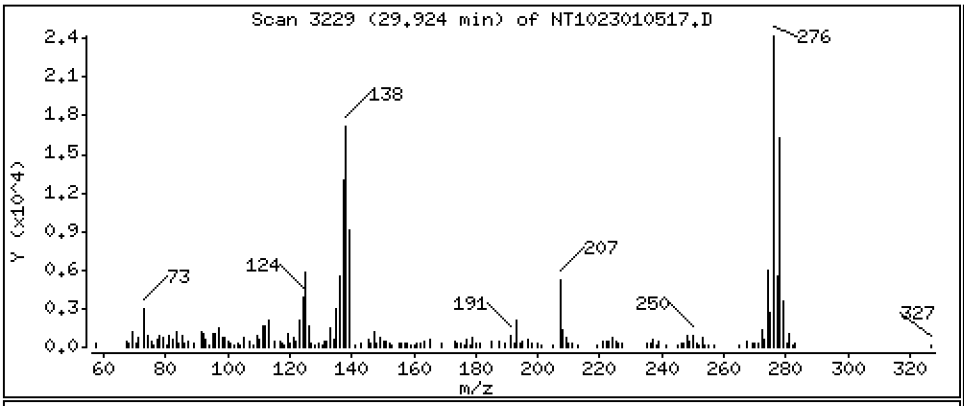
Operator: VTS

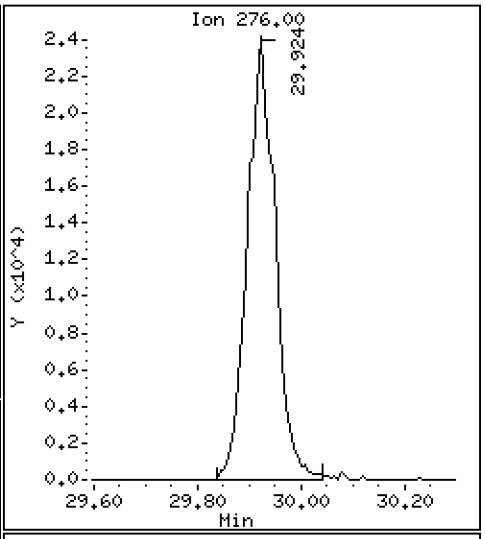
Column phase: ZB-5msi

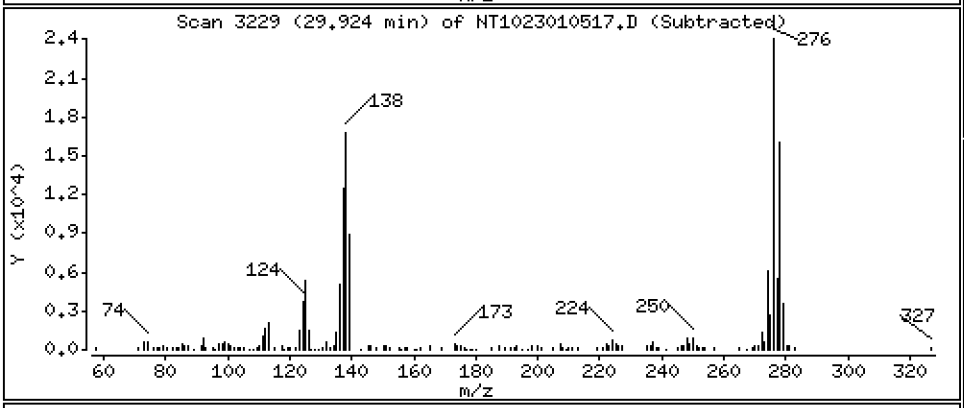
Column diameter: 0.25

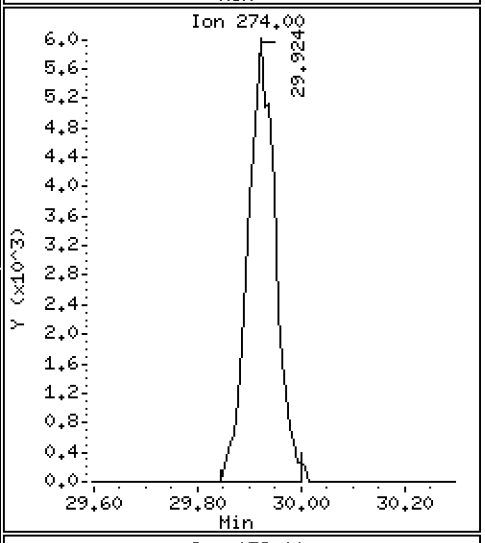
78 Indeno(1,2,3-cd)pyrene

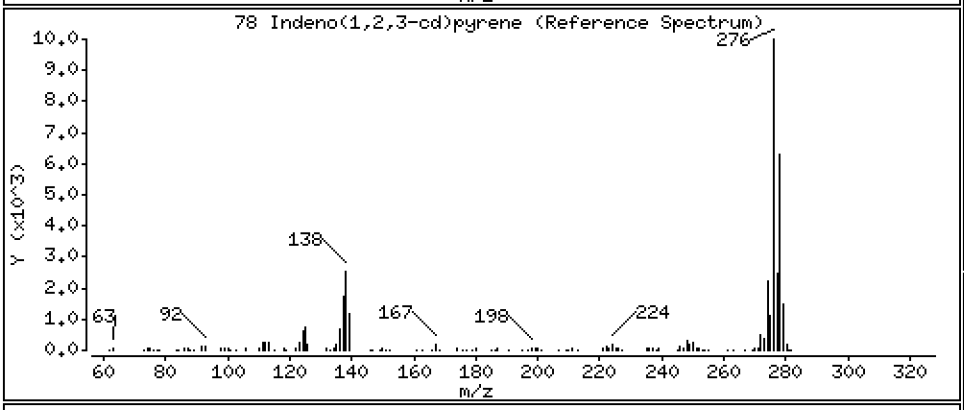
Concentration: 4.047 ug/mL

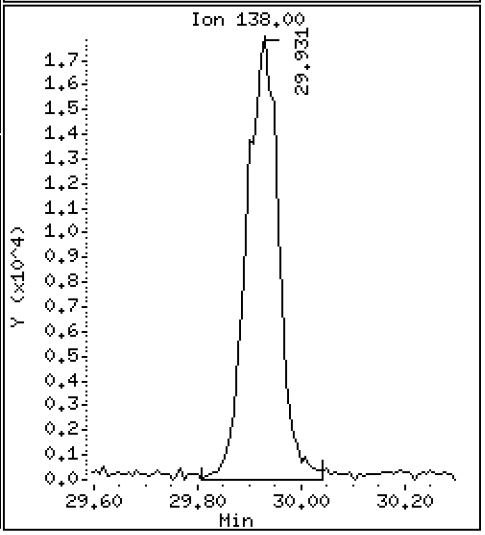


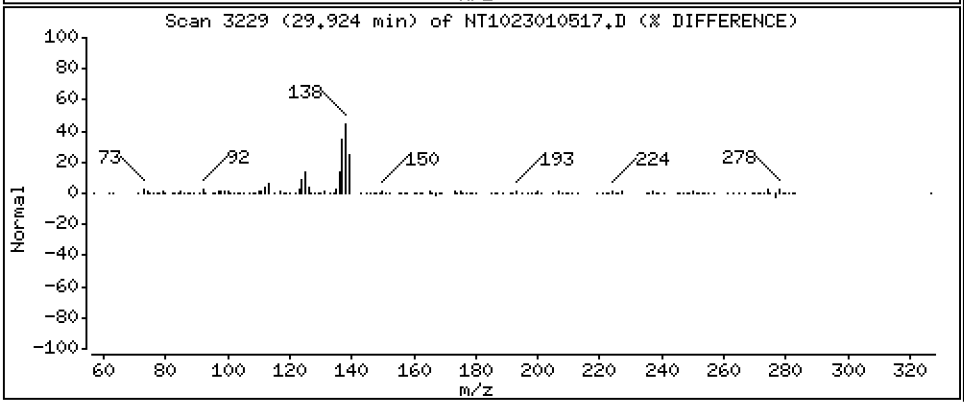












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

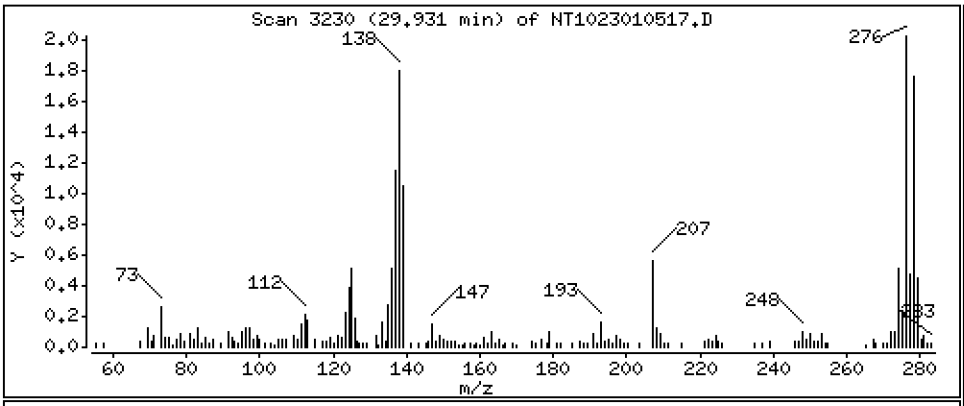
Operator: VTS

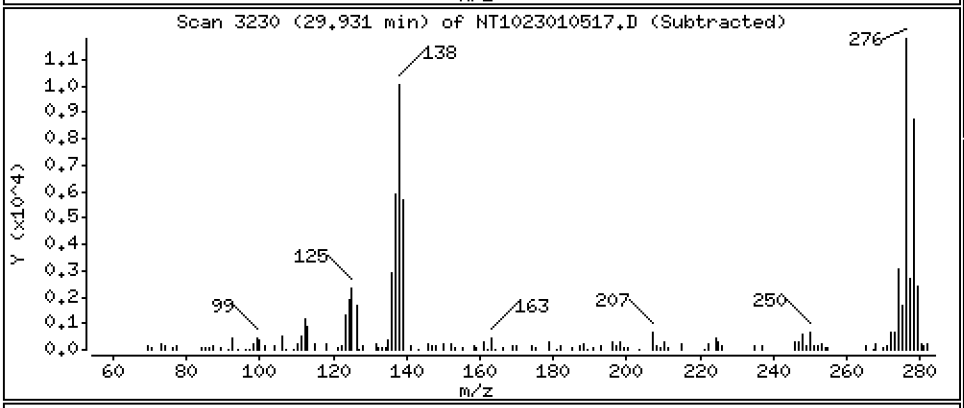
Column phase: ZB-5msi

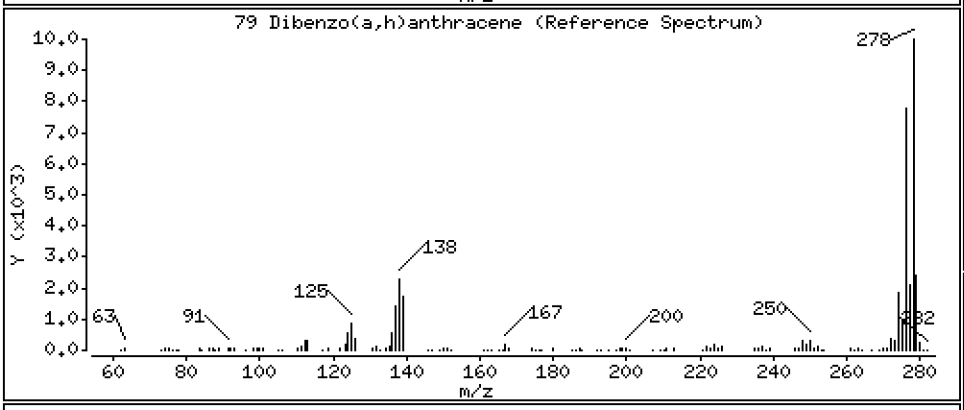
Column diameter: 0.25

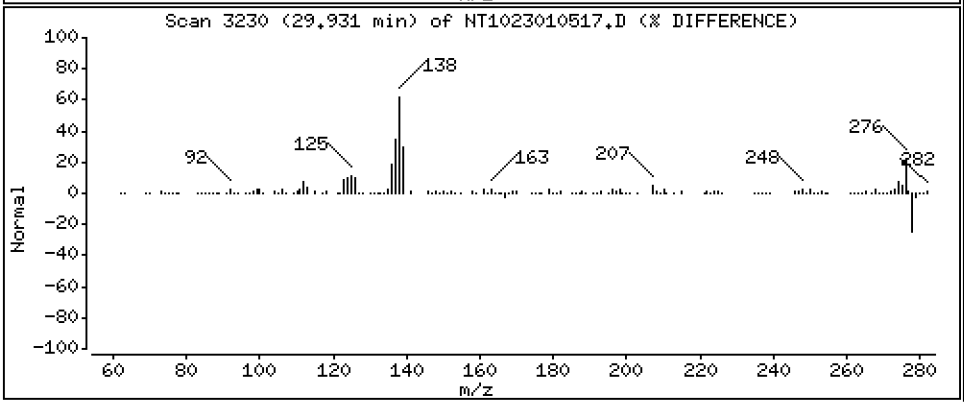
79 Dibenzo(a,h)anthracene

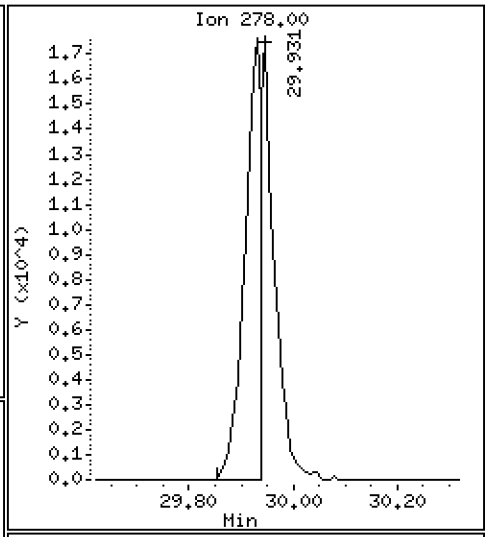
Concentration: 2.312 ug/mL

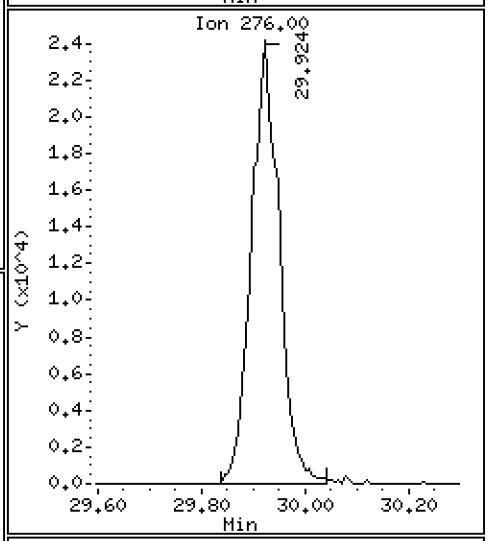


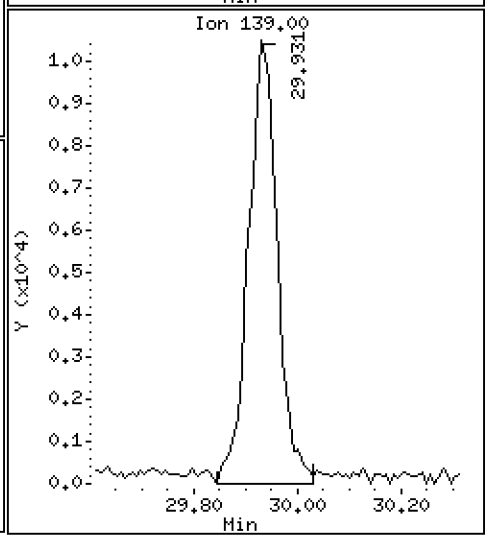












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

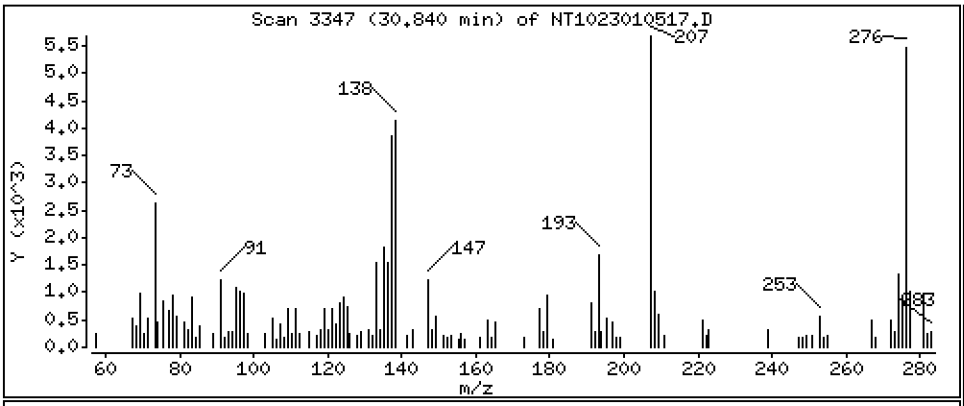
Operator: VTS

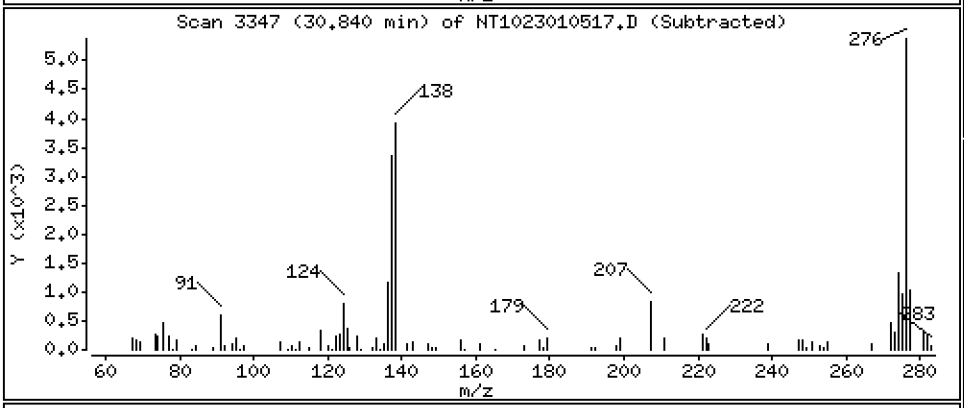
Column phase: ZB-5msi

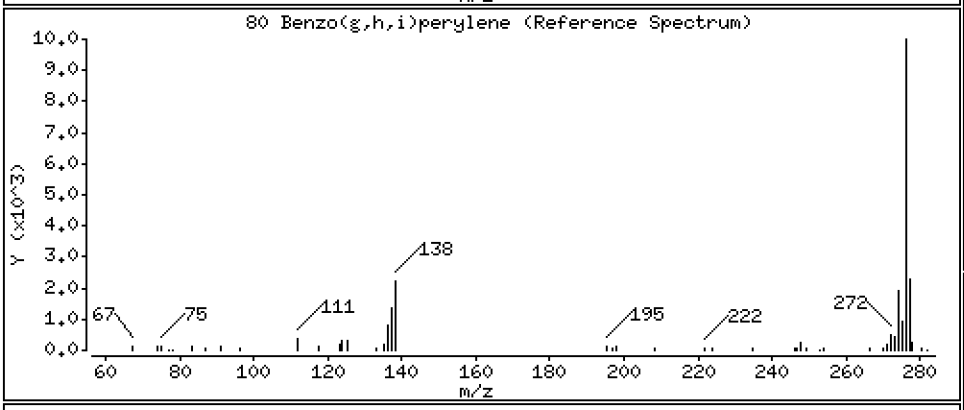
Column diameter: 0.25

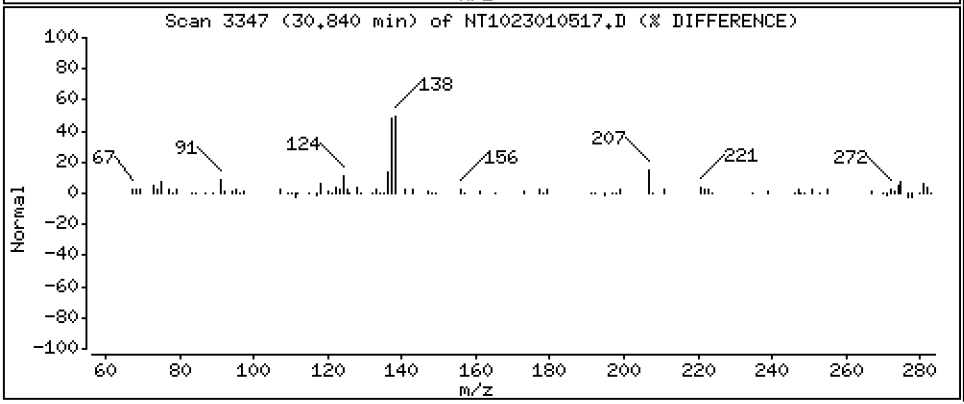
80 Benzo(g,h,i)perylene

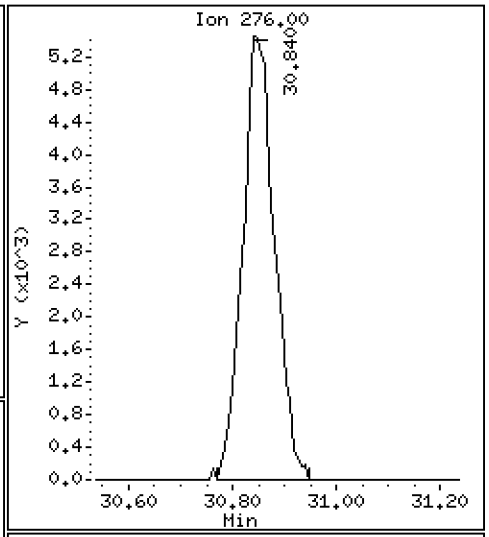
Concentration: 1.282 ug/mL

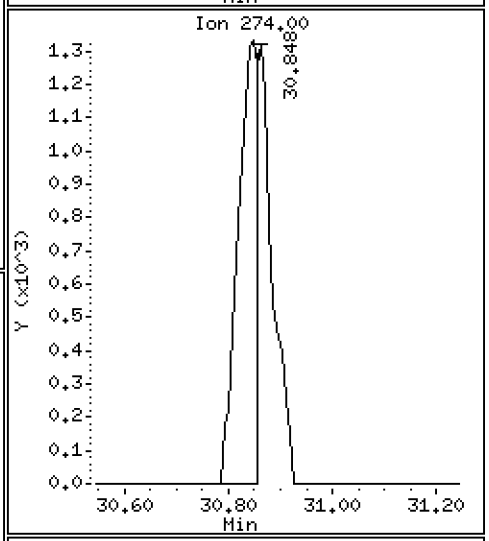


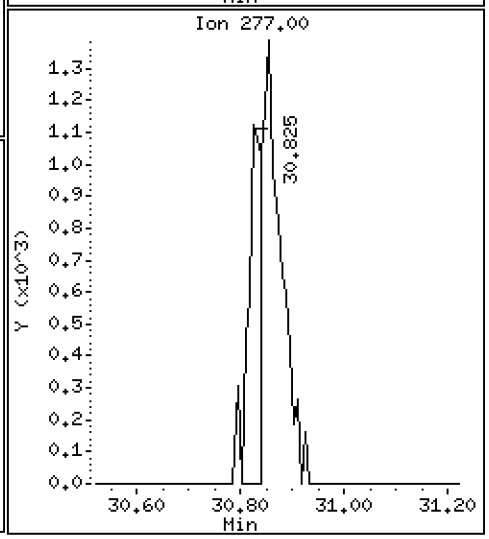












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

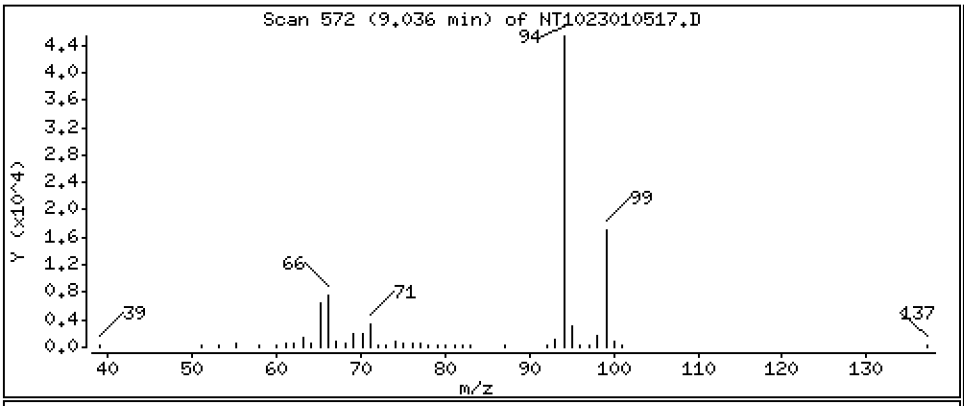
Operator: VTS

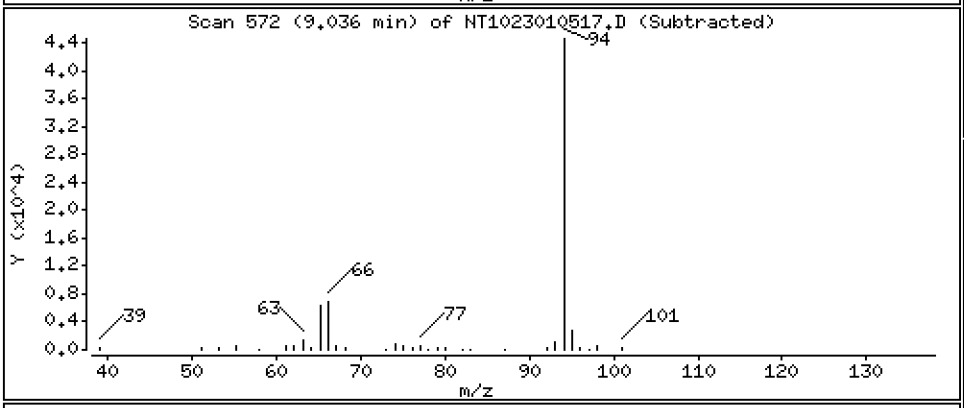
Column phase: ZB-5msi

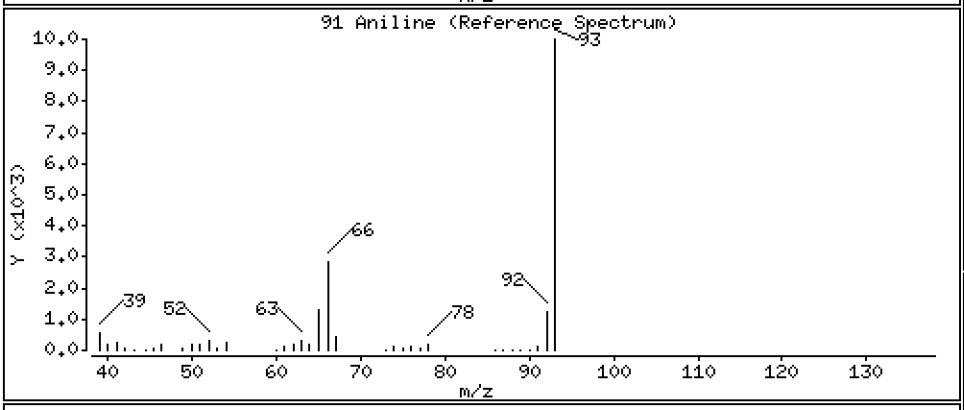
Column diameter: 0.25

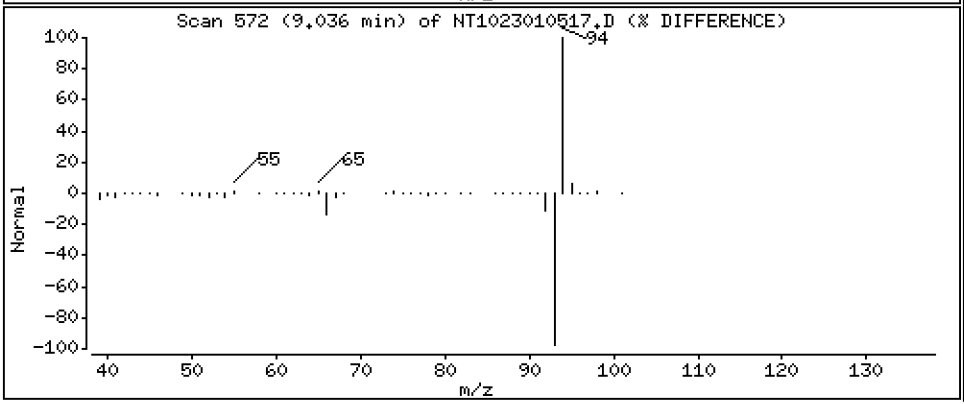
91 Aniline

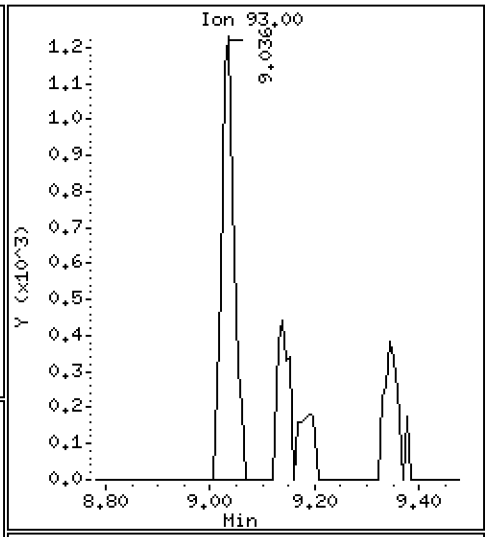
Concentration: 0.08137 ug/mL

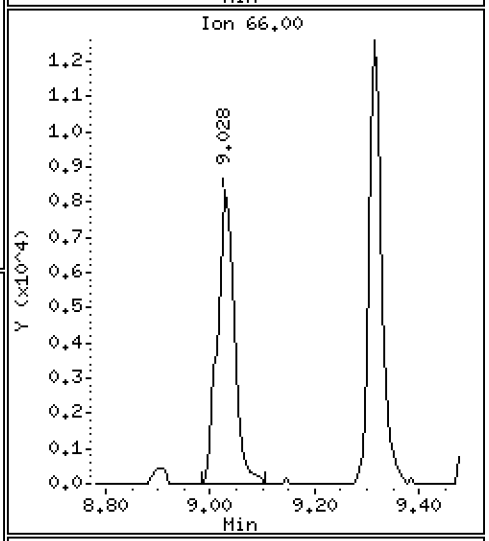


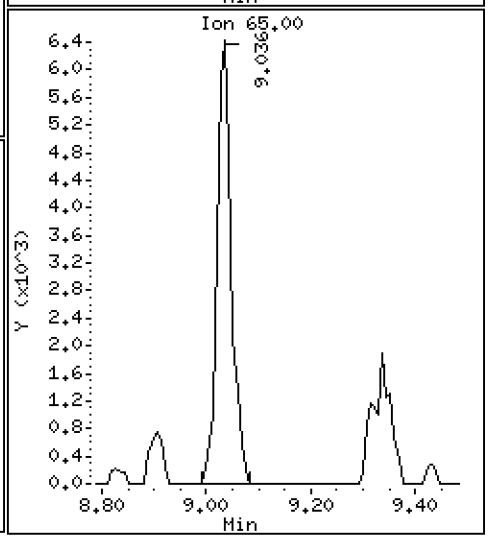












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

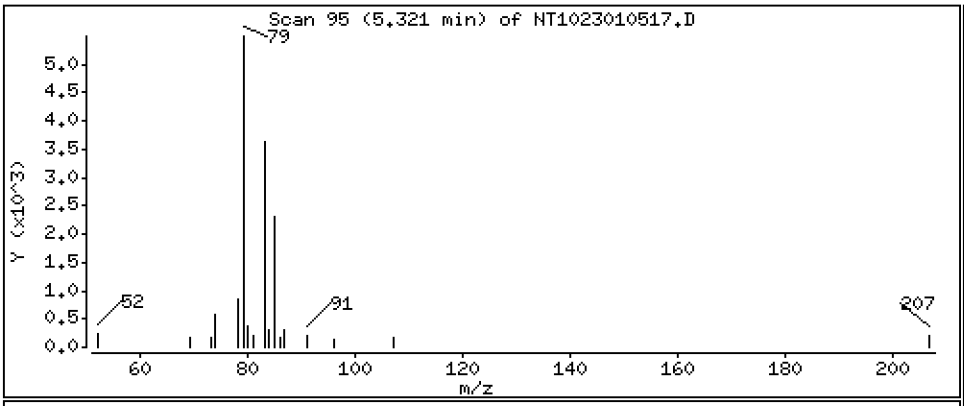
Operator: VTS

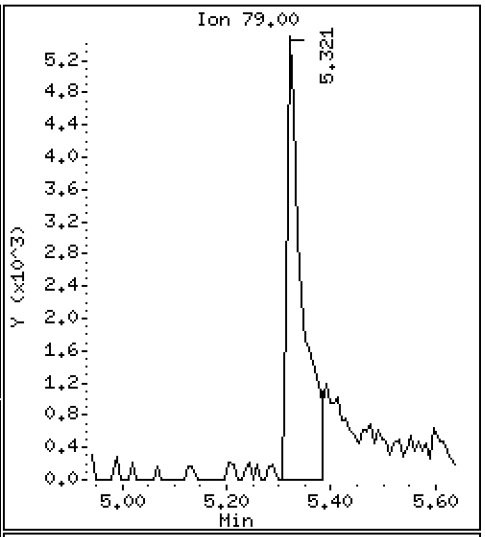
Column phase: ZB-5msi

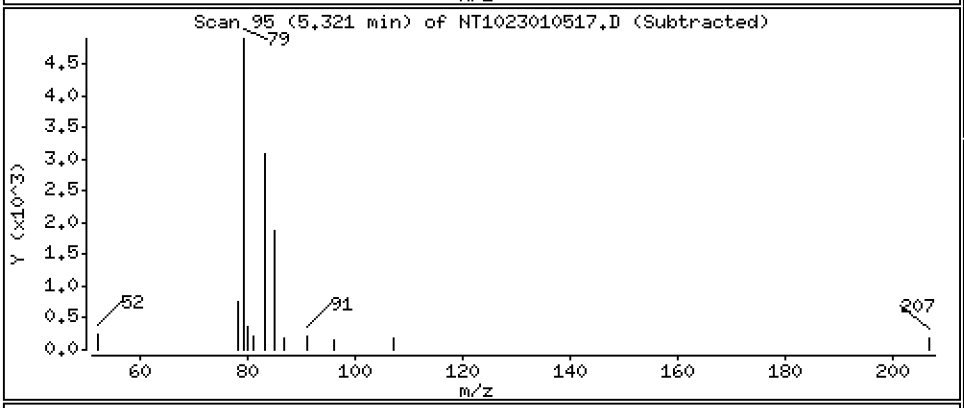
Column diameter: 0.25

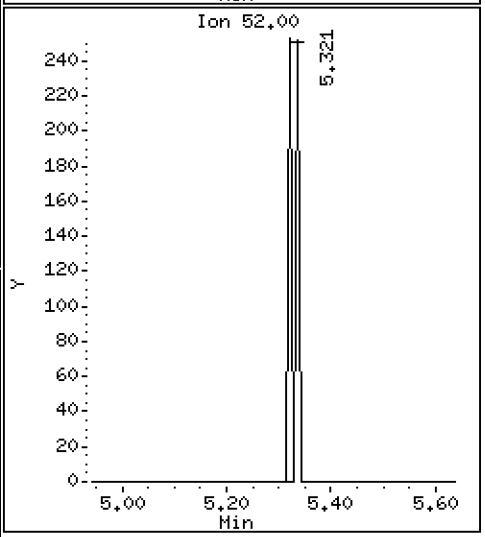
103 Pyridine

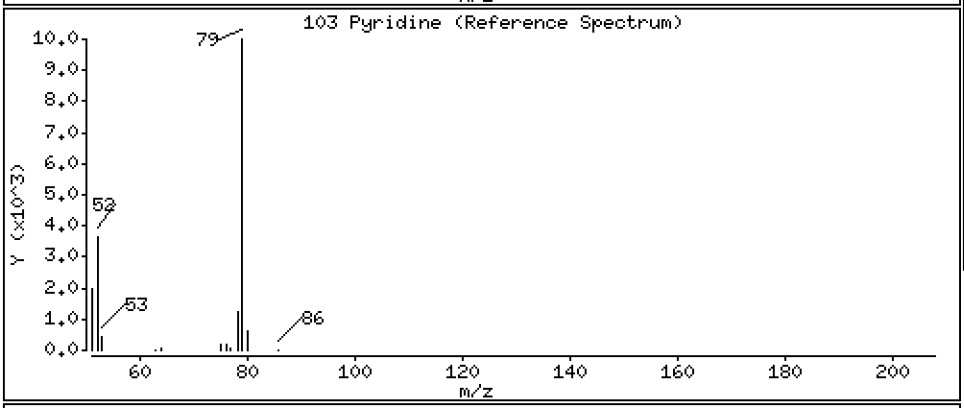
Concentration: 0.2921 ug/mL

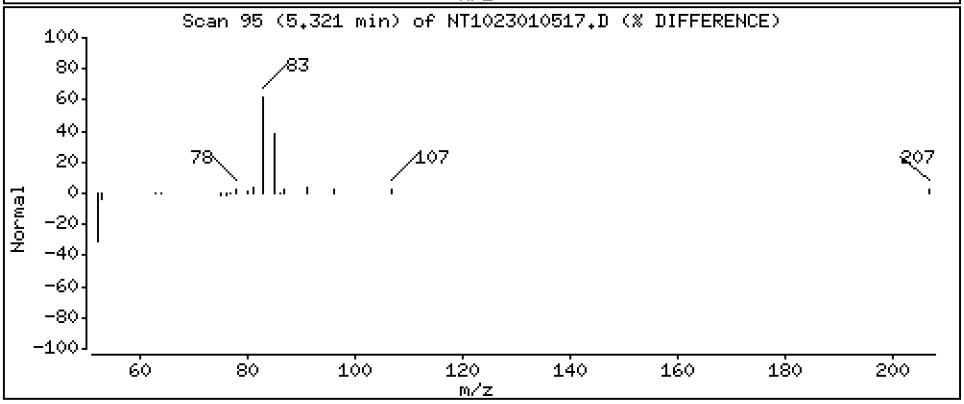












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

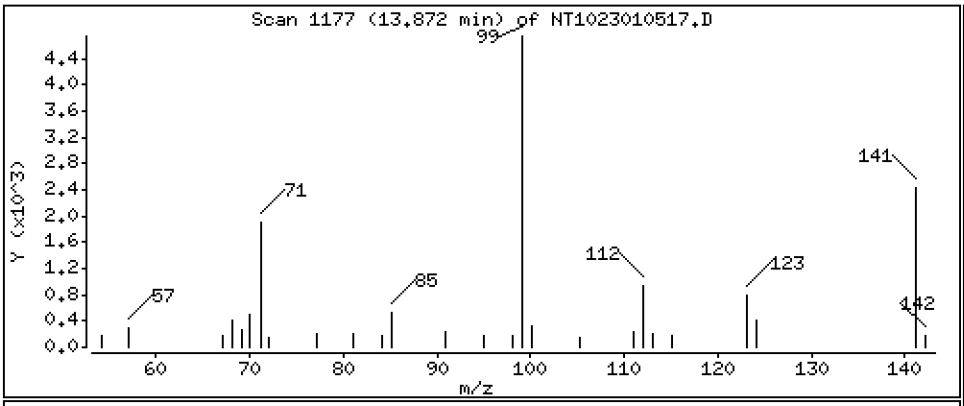
Operator: VTS

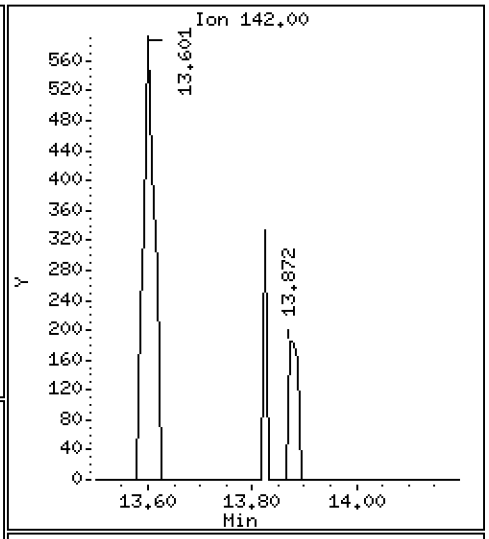
Column phase: ZB-5msi

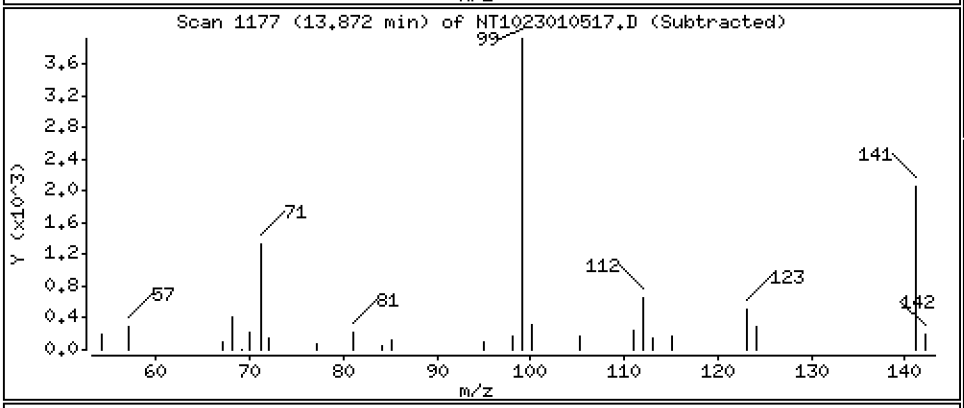
Column diameter: 0.25

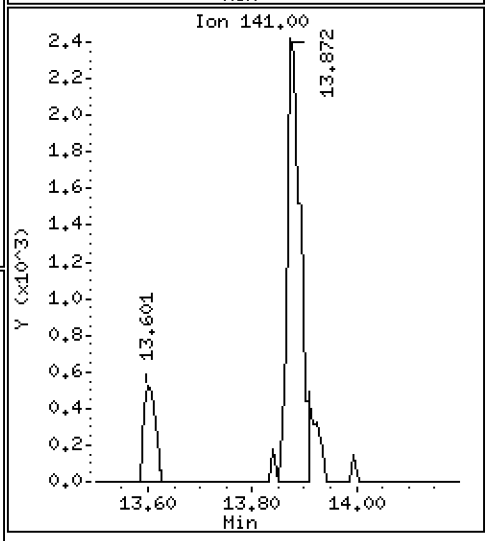
105 1-methylnaphthalene

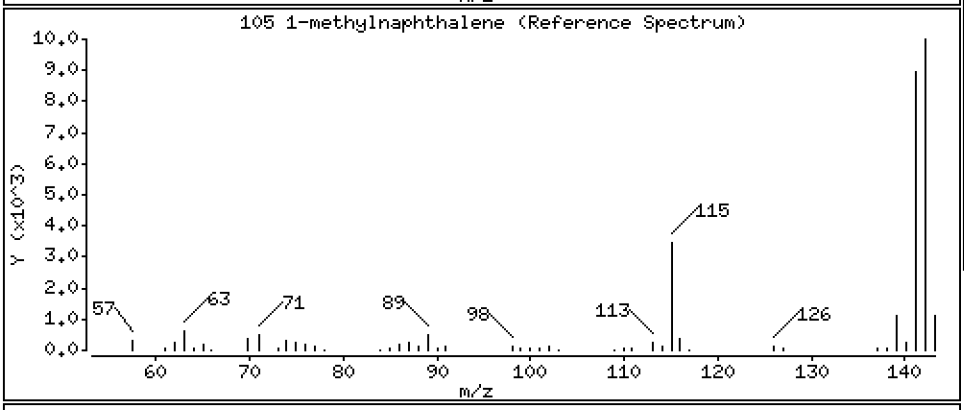
Concentration: 0.005148 ug/mL

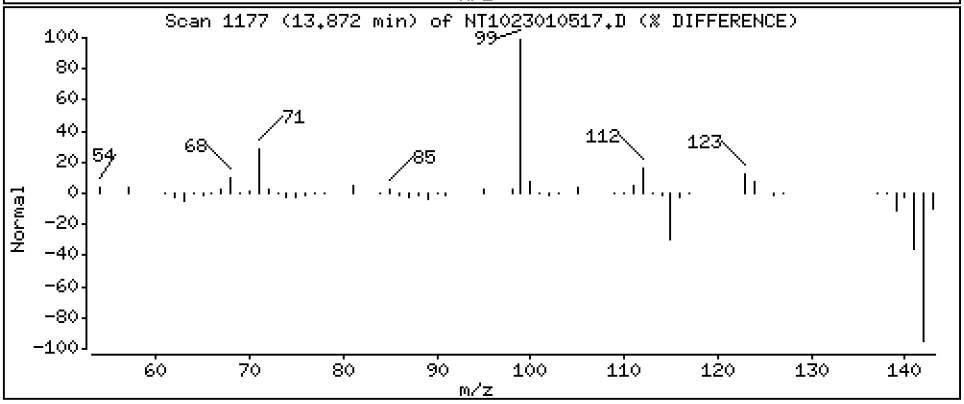












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010517.D

Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

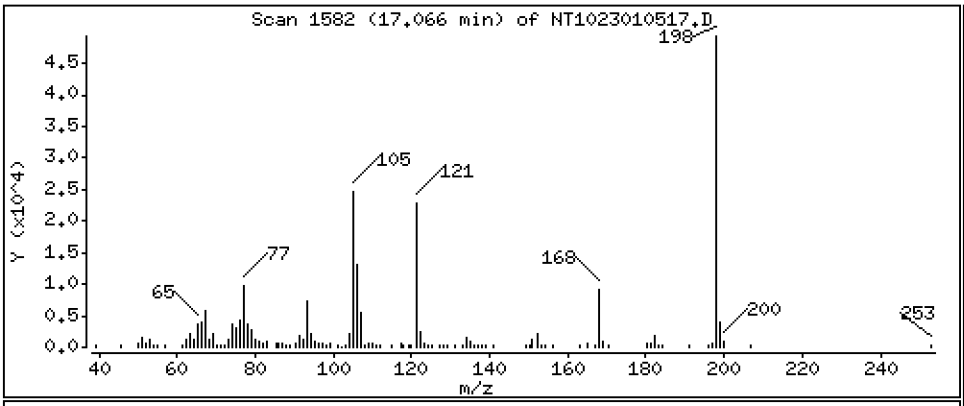
Operator: VTS

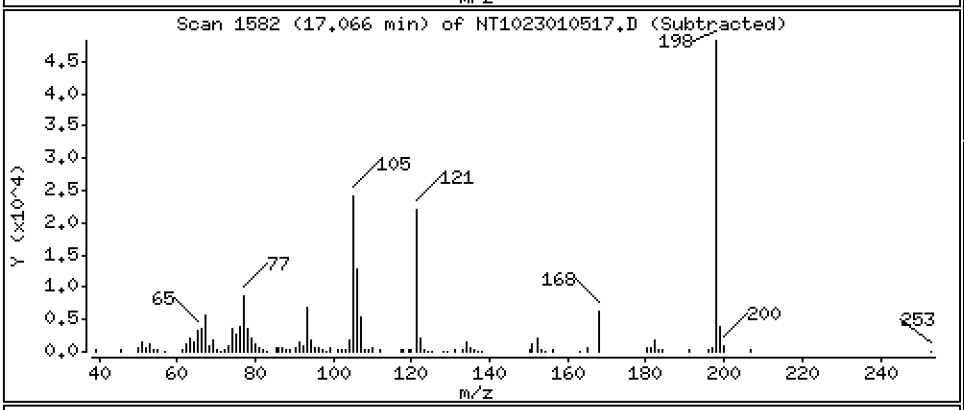
Column phase: ZB-5msi

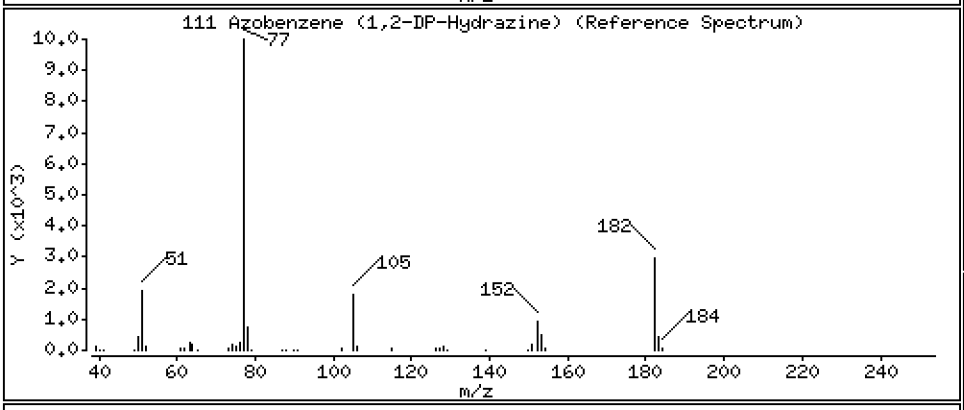
Column diameter: 0.25

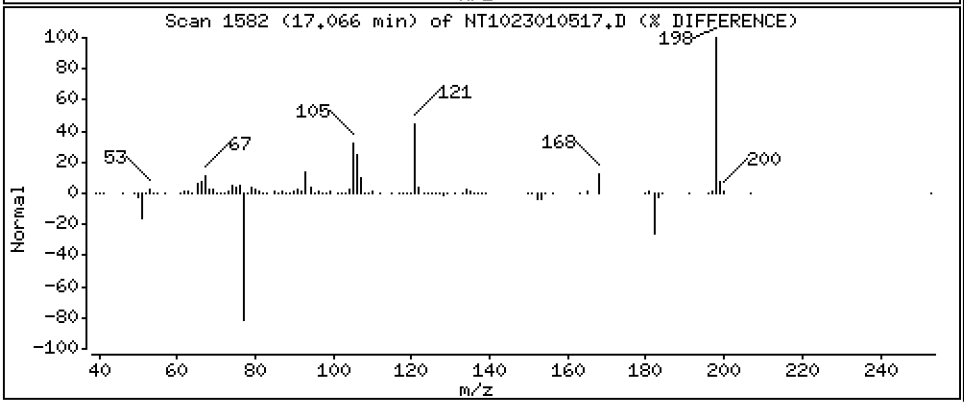
111 Azobenzene (1,2-DP-Hydrazine)

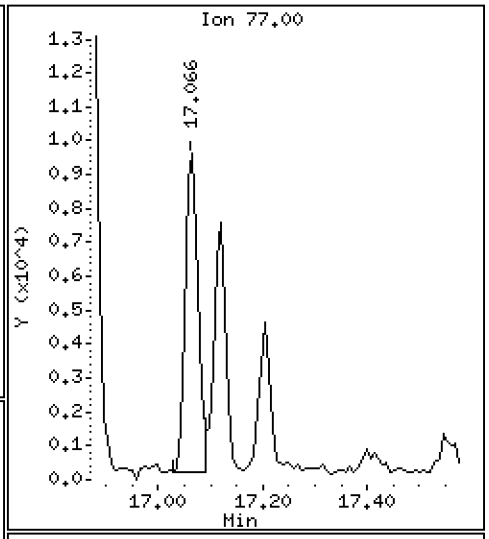
Concentration: 0.3492 ug/mL

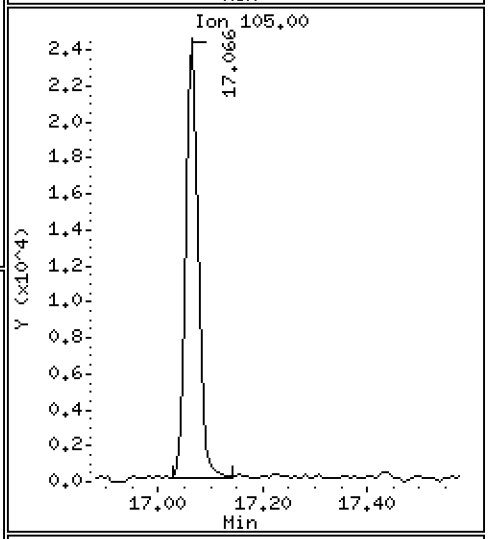


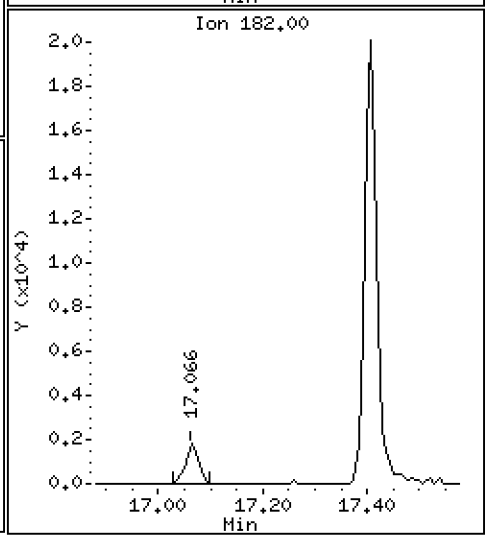












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Date : 05-JAN-2023 23:39

Client ID:

Instrument: nt10.i

Sample Info: BKL0489-SRM1

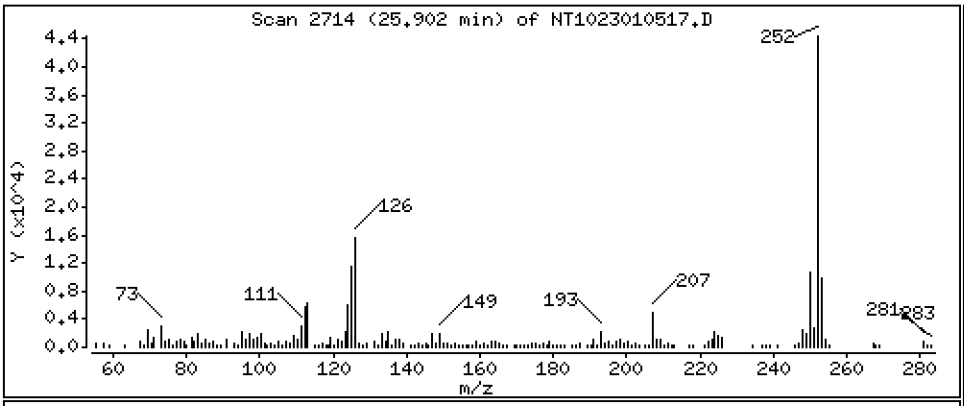
Operator: VTS

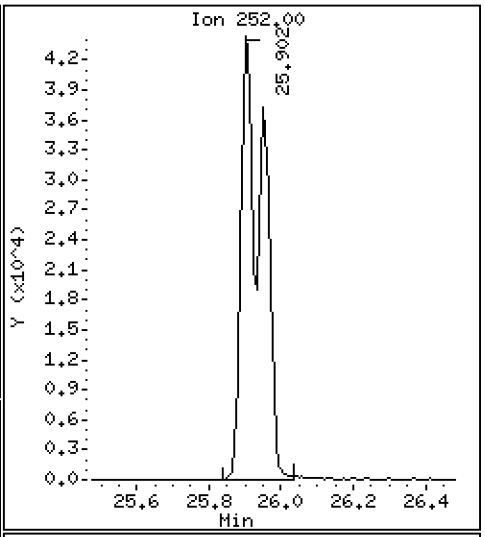
Column phase: ZB-5msi

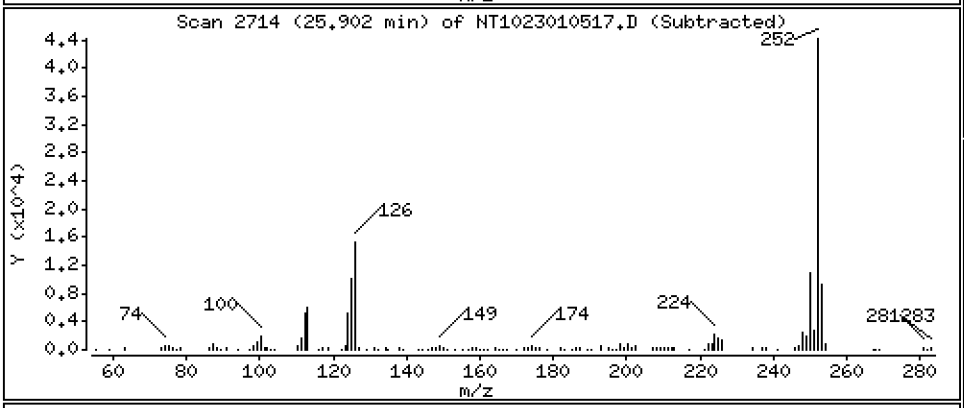
Column diameter: 0.25

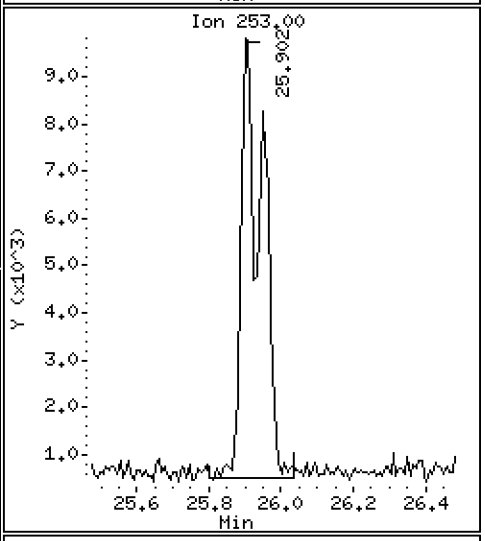
187 Total Benzofluoranthenes

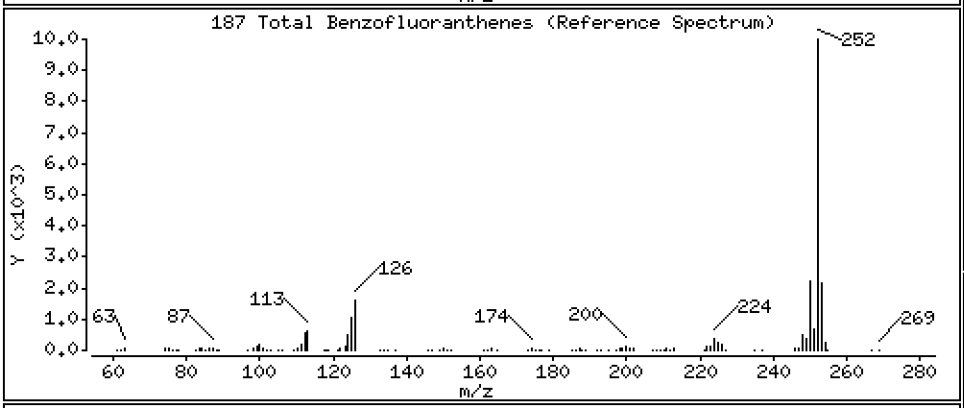
Concentration: 6.537 ug/mL

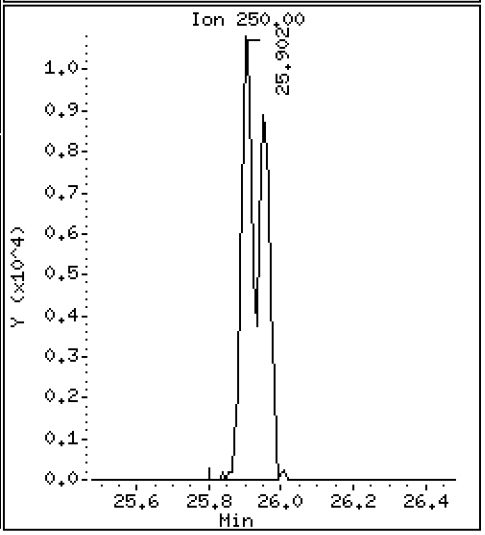


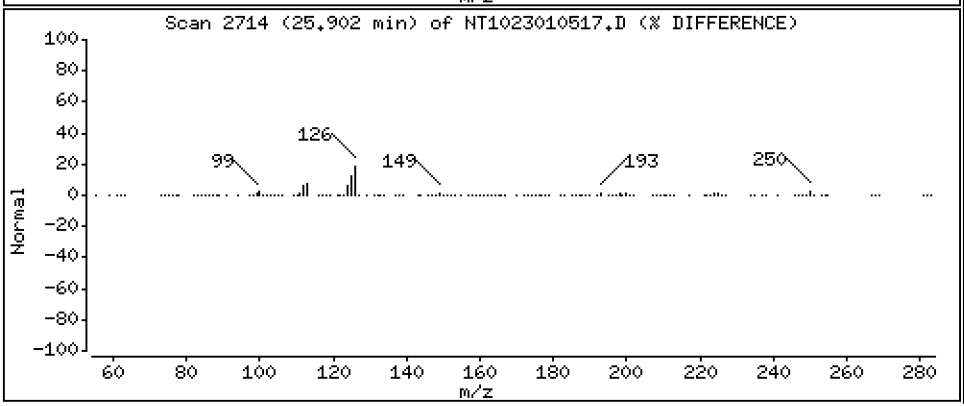












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010517.D
Lab Smp Id: BKL0489-SRM1
Inj Date : 05-JAN-2023 23:39
Operator : VTS Inst ID: nt10.i
Smp Info : BKL0489-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 17
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	7.452	7.429	(0.771)	154446	6.33739	6.337
$ 2	Phenol-d5	99	9.012	9.012	(0.932)	181397	6.21265	6.213
3	Phenol	94	9.036	9.036	(0.934)	80082	2.88708	2.887
$ 5	2-Chlorophenol-d4	132	9.314	9.321	(0.963)	176059	6.90296	6.903
4	Bis(2-Chloroethyl)ether	93	9.345	9.205	(0.966)	679	0.02793	0.02793
6	2-Chlorophenol	128	9.337	9.344	(0.966)	37406	1.38377	1.384
7	1,3-Dichlorobenzene	146	9.608	9.623	(0.994)	8472	0.29857	0.2986
* 8	1,4-Dichlorobenzene-d4	152	9.670	9.685	(1.000)	74120	4.00000	
9	1,4-Dichlorobenzene	146	9.608	9.716	(0.994)	8472	0.34719	0.3472
$ 10	1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	69670	4.38526	4.385
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	10.151	9.941	(1.050)	118894	8.51561	8.516
14	2,2'-oxybis(1-Chloropropane)	121	10.228	10.244	(1.058)	10216	1.40108	1.401
13	2-Methylphenol	108	10.151	10.158	(1.050)	118894	6.15806	6.158
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
15	4-Methylphenol	108	10.415	10.422	(1.077)	122582	8.71261	8.713
$ 18	Nitrobenzene-d5	82	10.764	10.779	(0.885)	88770	4.77441	4.774
19	Nitrobenzene	77	10.803	10.810	(0.888)	41944	2.53060	2.531
20	Isophorone	82	11.245	11.261	(0.924)	59048	2.31942	2.319
21	2-Nitrophenol	139	11.433	11.442	(0.940)	89731	5.64905	5.649
22	2,4-Dimethylphenol	107	11.459	11.476	(0.942)	29031	1.35318	1.353
23	Bis(2-Chloroethoxy)methane	93	11.883	11.671	(0.976)	2470	0.13296	0.1330
24	Benzoic acid	105	11.697	11.671	(0.961)	898	0.10175	0.1017
25	2,4-Dichlorophenol	162	11.892	11.900	(0.977)	156035	9.27009	9.270
26	1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	15425	0.86325	0.8633
* 27	Naphthalene-d8	136	12.170	12.185	(1.000)	277759	4.00000	
28	Naphthalene	128	12.208	12.224	(1.003)	140386	2.29851	2.299
29	4-Chloroaniline	127	12.208	12.339	(1.003)	18152	0.76700	0.7670
30	Hexachlorobutadiene	225	12.563	12.579	(1.032)	4318	0.65028	0.6503
31	4-Chloro-3-methylphenol	107	13.275	13.291	(1.091)	39609	2.27043	2.270
32	2-Methylnaphthalene	142	Compound Not Detected.					
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.220	14.235	(0.901)	26547	2.74893	2.749
	35	2,4,5-Trichlorophenol	196	14.305	14.312	(0.906)	45498	4.31390	4.314
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	223995	5.25315	5.253
	37	2-Chloronaphthalene	162	14.599	14.622	(0.925)	96783	2.54061	2.541
	38	2-Nitroaniline	65	14.692	14.862	(0.930)	4261	0.83436	0.8344
	39	Dimethylphthalate	163	15.257	15.280	(0.966)	203014	5.84895	5.849
	40	Acenaphthylene	152	15.481	15.497	(0.980)	94059	1.71861	1.719
	41	2,6-Dinitrotoluene	165	15.404	15.427	(0.975)	1074	0.13623	0.1362
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	115097	4.00000	
	43	3-Nitroaniline	138	15.768	15.721	(0.999)	293	0.05394	0.05394
	44	Acenaphthene	153	15.860	15.876	(1.004)	199177	6.55798	6.558
	45	2,4-Dinitrophenol	184	15.914	15.938	(1.008)	20201	3.85631	3.856
	46	Dibenzofuran	168	16.185	16.208	(1.025)	363128	7.86834	7.868
	47	4-Nitrophenol	109	16.023	16.038	(1.015)	42483	9.75531	9.755
	48	2,4-Dinitrotoluene	165	16.216	16.247	(1.027)	44650	4.22076	4.221
	50	Diethylphthalate	149	16.711	16.742	(1.058)	17087	0.46677	0.4668
	49	Fluorene	166	16.904	16.919	(1.070)	314071	4.63558	4.636
	51	4-Chlorophenyl-phenylether	204	16.873	16.896	(1.069)	53273	2.44811	2.448
	52	4-Nitroaniline	138	17.205	17.004	(1.090)	790	0.05270	0.05270
	53	4,6-Dinitro-2-methylphenol	198	17.066	17.097	(0.906)	77534	8.36530	8.365
	54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.909)	125086	3.11850	3.119
$	55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	19339	8.10937	8.109
	56	4-Bromophenyl-phenylether	248	17.883	17.914	(0.949)	88620	8.39225	8.392
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	18.571	18.594	(0.986)	8590	5.32917	5.329
*	59	Phenanthrene-d10	188	18.842	18.865	(1.000)	216705	4.00000	
	60	Phenanthrene	178	18.889	18.919	(1.002)	314648	5.98471	5.985
	61	Anthracene	178	18.989	19.005	(1.008)	131293	2.55817	2.558
	62	Carbazole	167	19.299	19.322	(1.024)	361493	6.53642	6.536
	63	Di-n-butylphthalate	149	20.041	20.072	(1.064)	140511	1.89840	1.898
	64	Fluoranthene	202	21.248	21.271	(0.891)	157104	3.14864	3.149
	65	Pyrene	202	21.674	21.689	(0.909)	198264	3.91445	3.914
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	151697	5.10330	5.103
	67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	125643	4.57940	4.579
	68	Benzo(a)anthracene	228	23.819	23.842	(0.999)	271297	7.44618	7.446
*	69	Chrysene-d12	240	23.850	23.873	(1.000)	122673	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	23.896	23.919	(1.002)	54371	1.79056	1.791
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	178379	3.62921	3.629
*	134	Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	320054	4.00000	
	73	Di-n-octylphthalate	149	24.910	24.941	(1.000)	213859	2.88956	2.890
	74	Benzo(b)fluoranthene	252	25.901	25.932	(0.966)	109240	3.65888	3.659
	75	Benzo(k)fluoranthene	252	25.948	25.978	(0.968)	82414	2.83316	2.833
	76	Benzo(a)pyrene	252	26.660	26.691	(0.995)	155197	5.45111	5.451
*	77	Perylene-d12	264	26.799	26.822	(1.000)	82884	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.923	29.946	(1.117)	90578	4.04743	4.047
	79	Dibenzo(a,h)anthracene	278	29.931	29.970	(1.117)	40661	2.31228	2.312
	80	Benzo(g,h,i)perylene	276	30.840	30.886	(1.151)	23663	1.28159	1.282
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.036	9.128	(0.934)	2070	0.08137	0.08137
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	5.320	5.290	(0.550)	11345	0.29214	0.2921
	105	1-methylnaphthalene	142	13.871	13.848	(1.140)	243	0.00515	0.005148
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.066	17.228	(1.081)	15850	0.34918	0.3492

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.978	(0.966)	184804	6.53712	6.537
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010517.D
Lab Smp Id: BKL0489-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	74120	-9.31
27 Naphthalene-d8	307034	153517	614068	277759	-9.53
42 Acenaphthene-d10	140557	70279	281114	115097	-18.11
59 Phenanthrene-d10	243620	121810	487240	216705	-11.05
69 Chrysene-d12	144852	72426	289704	122673	-15.31
134 Di-n-octylphthala	387178	193589	774356	320054	-17.34
77 Perylene-d12	106683	53342	213366	82884	-22.31

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.80	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010517.D

Lab ID: BKL0489-SRM1
nt10.i, ABN.m, 05-JAN-2023 23:39

RT	CO-ELUTION COMPOUNDS
9.608	1,4-Dichlorobenzene and 1,3-Dichlorobenzene
10.151	2-Methylphenol and Benzyl alcohol

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.966	0.950	0.0159	Bis(2-Chloroethyl)ether
0.994	1.003	-0.0096	1,4-Dichlorobenzene
1.050	1.026	0.0233	Benzyl alcohol
0.976	0.958	0.0187	Bis(2-Chloroethoxy)methane
1.003	1.013	-0.0095	4-Chloroaniline
0.930	0.940	-0.0094	2-Nitroaniline
1.090	1.075	0.0143	4-Nitroaniline
0.934	0.943	-0.0081	Aniline
1.081	1.089	-0.0086	Azobenzene (1,2-DP-Hydrazine)

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8270E

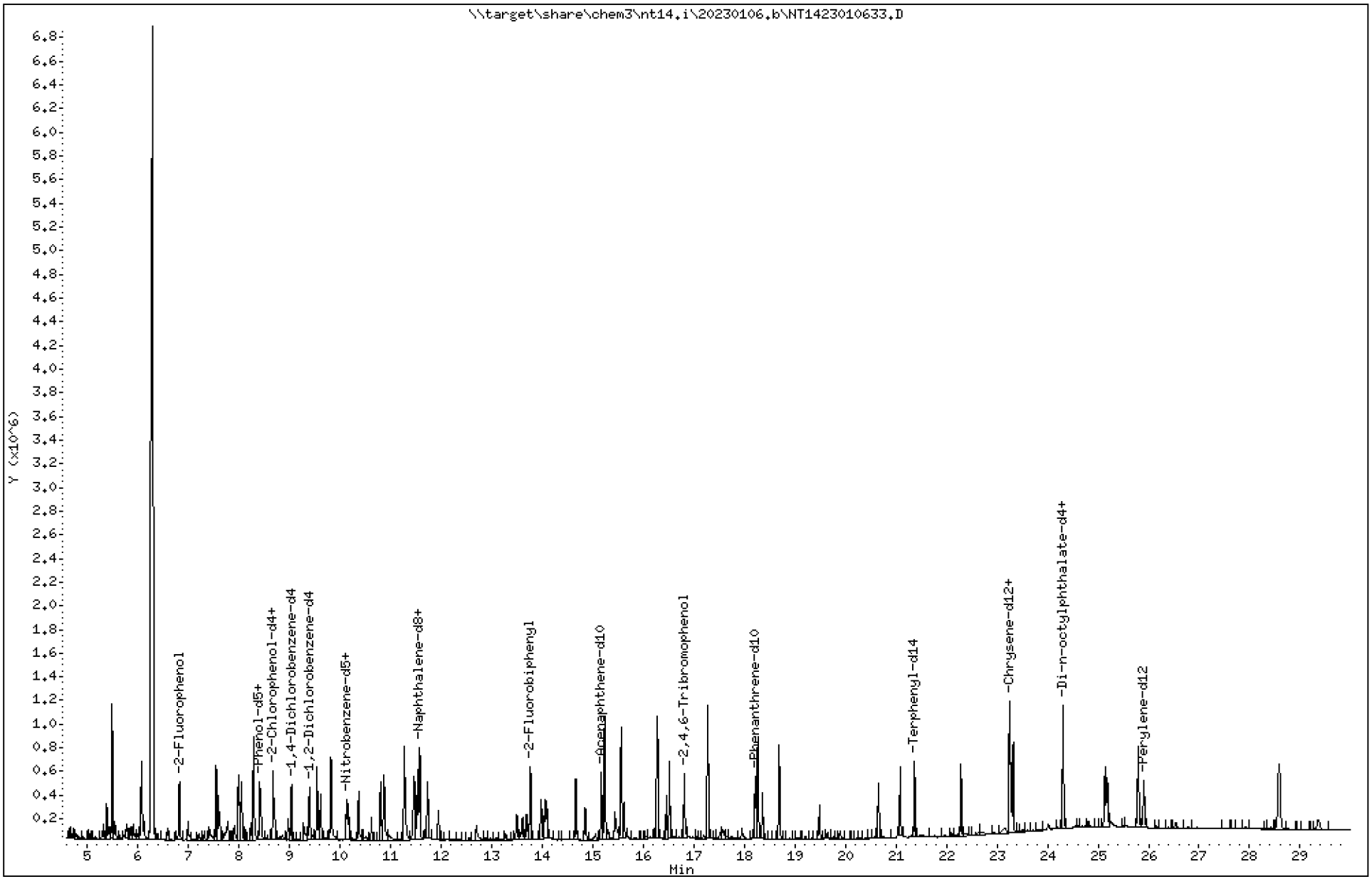
Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0585-SRM1
Batch: BKL0585
Initial/Final: 1 g / 1 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/07/2023 6:51
Standard ID: K003477
Expires: 01/31/2024
Standard Lot#: CRM 143 (LRAC8918)
Description: CRM 143 BNAs - Sandy Loam

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Butylbenzylphthalate	3511.0	5900	94.1	200	*	168 *	36 - 164

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010633.D
Date : 07-JAN-2023 06:51
Client ID:
Sample Info: BKL0585-SRM1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

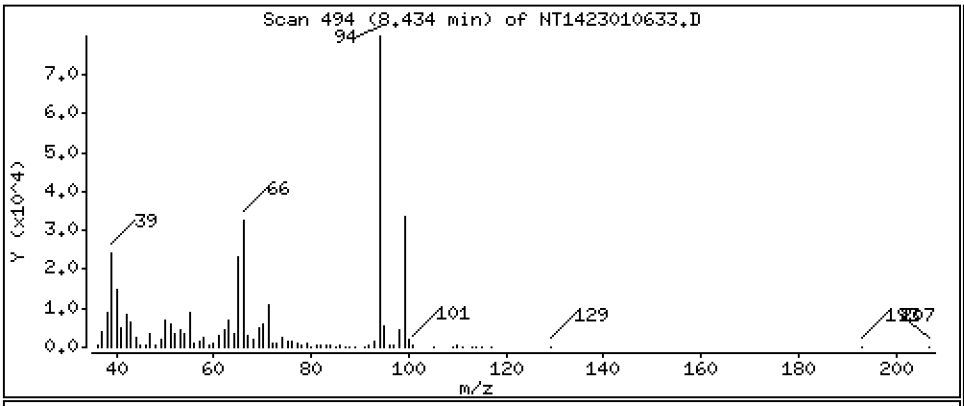
Operator: VTS

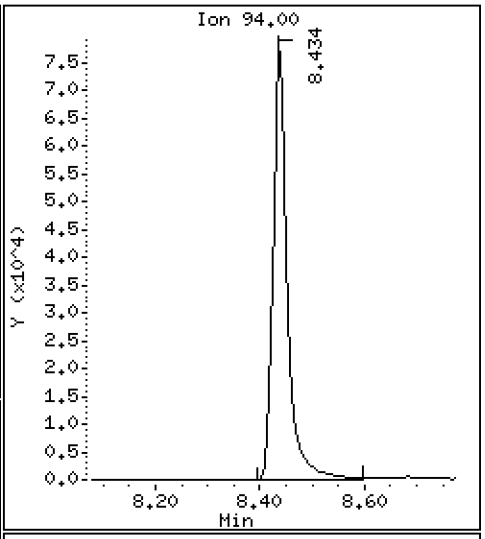
Column phase: ZB-5msi

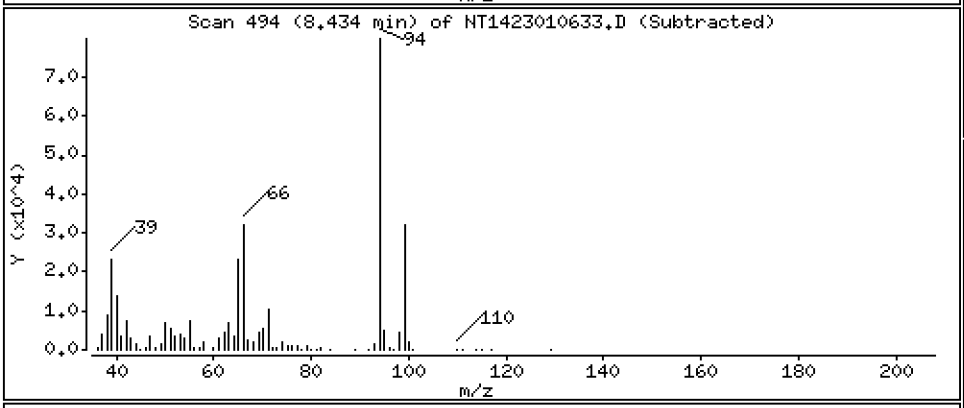
Column diameter: 0.25

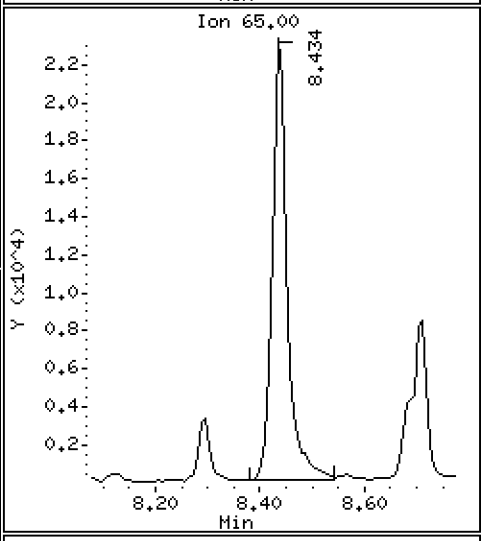
3 Phenol

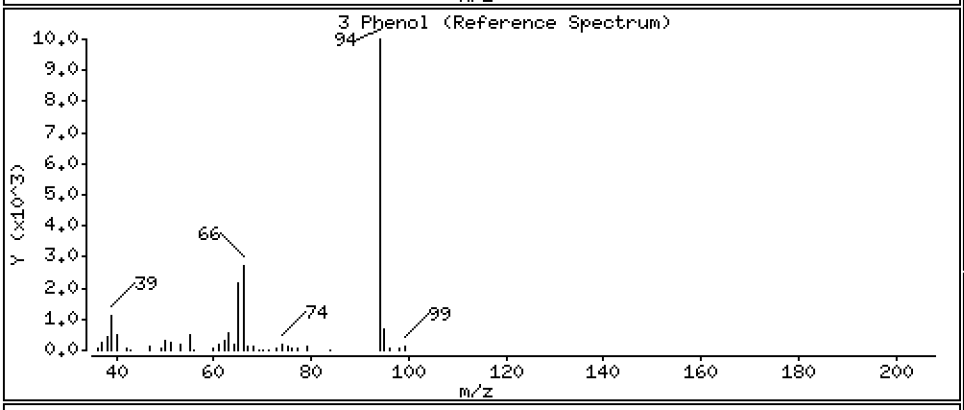
Concentration: 2.995 ug/mL

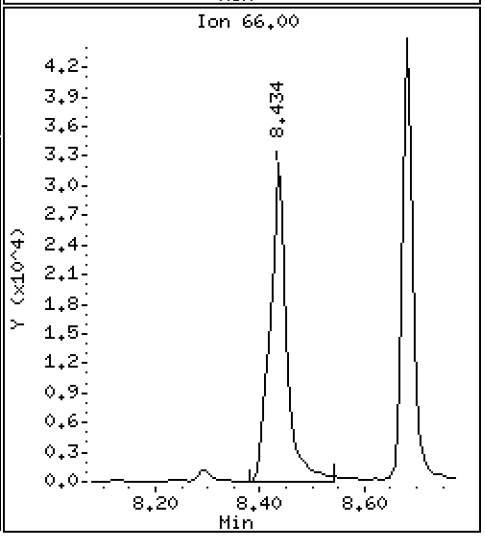


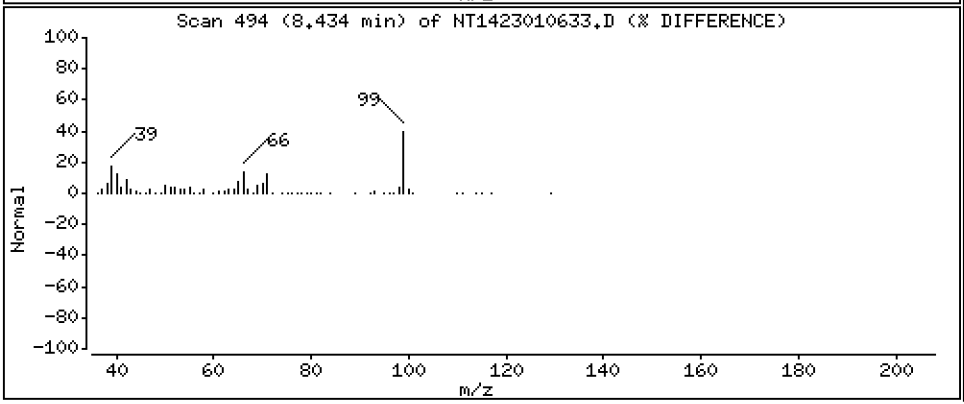












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

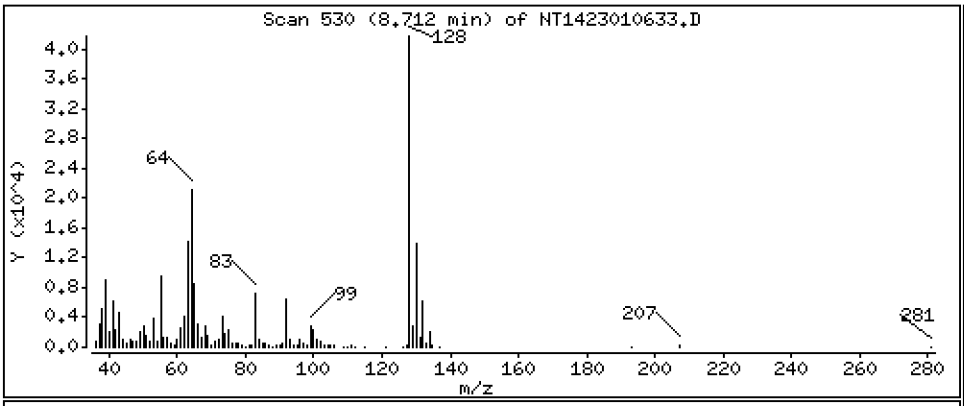
Operator: VTS

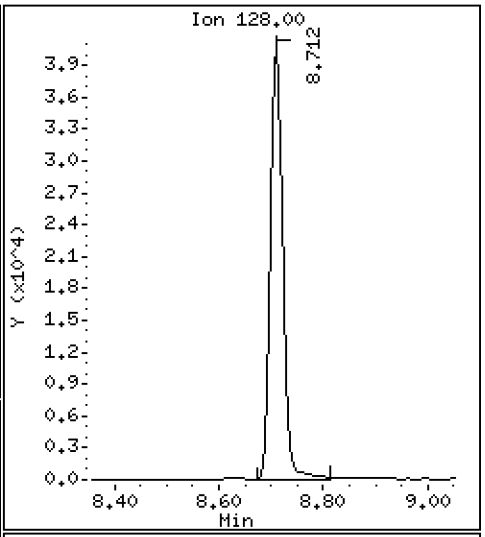
Column phase: ZB-5msi

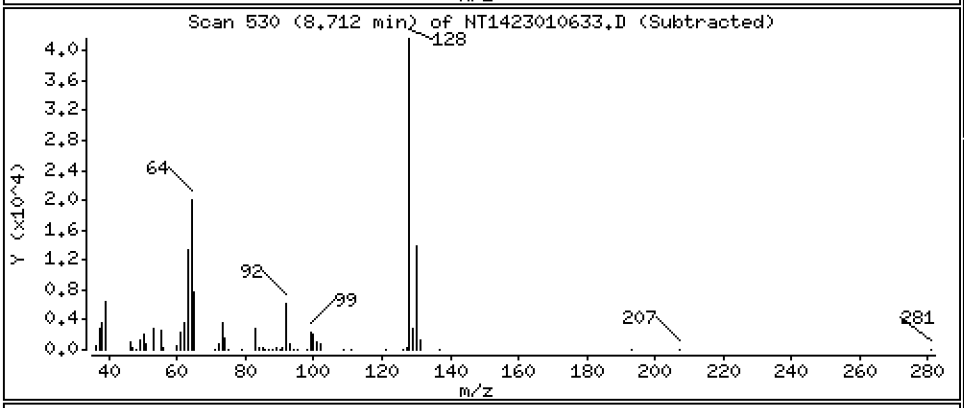
Column diameter: 0.25

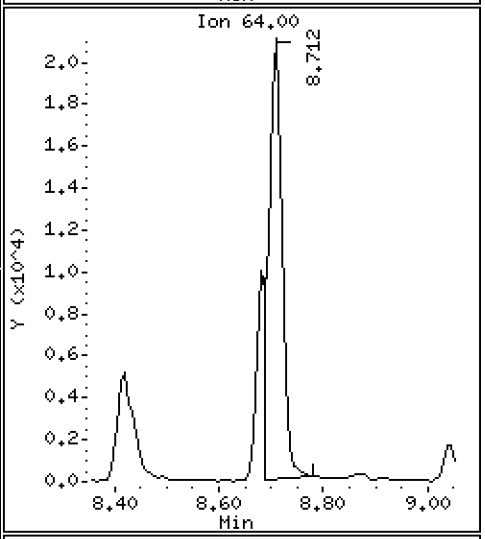
6 2-Chlorophenol

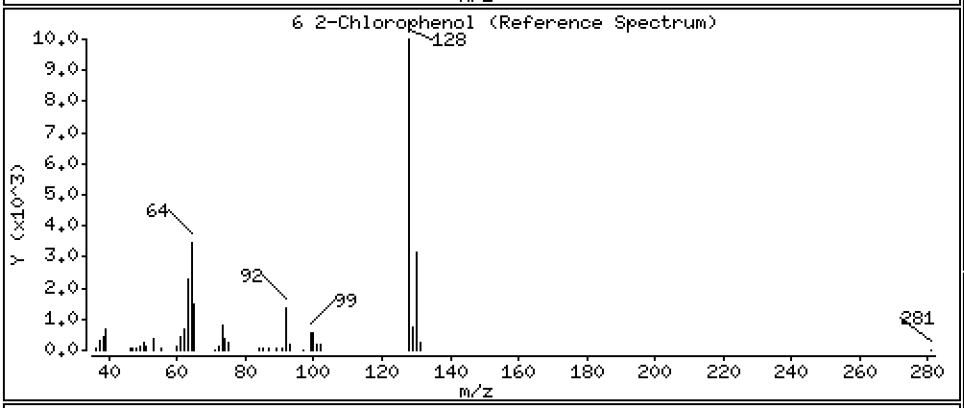
Concentration: 1.589 ug/mL

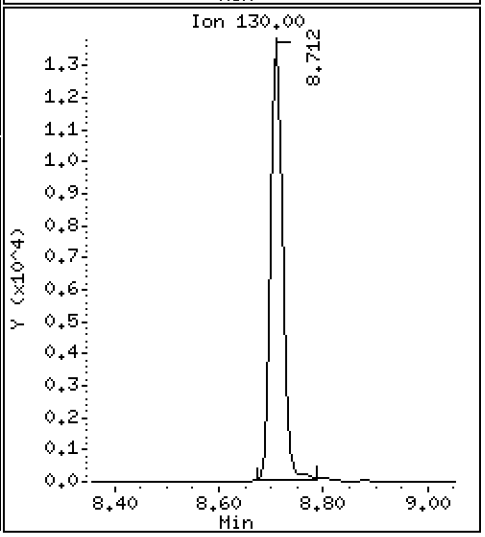


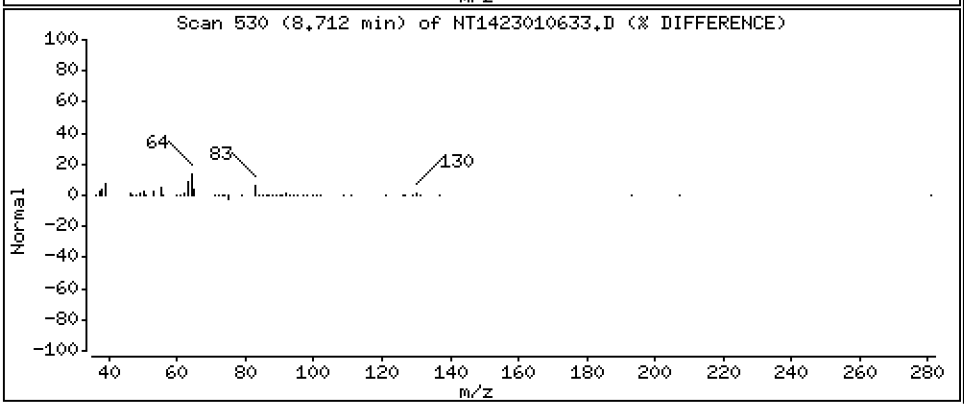












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

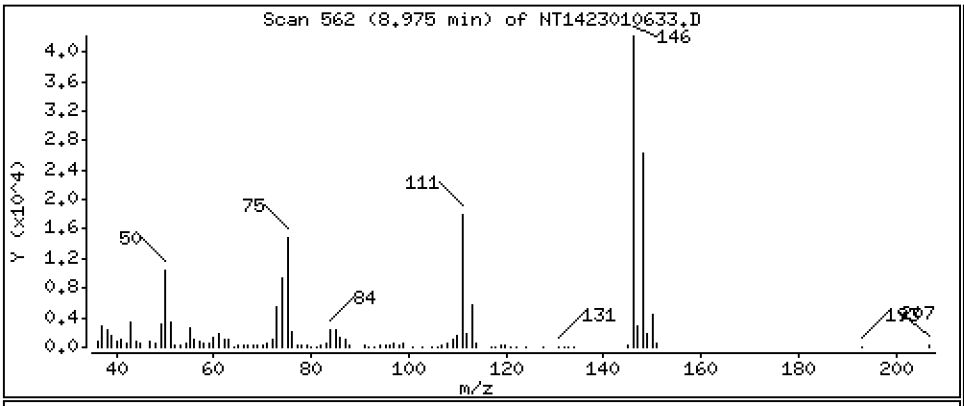
Operator: VTS

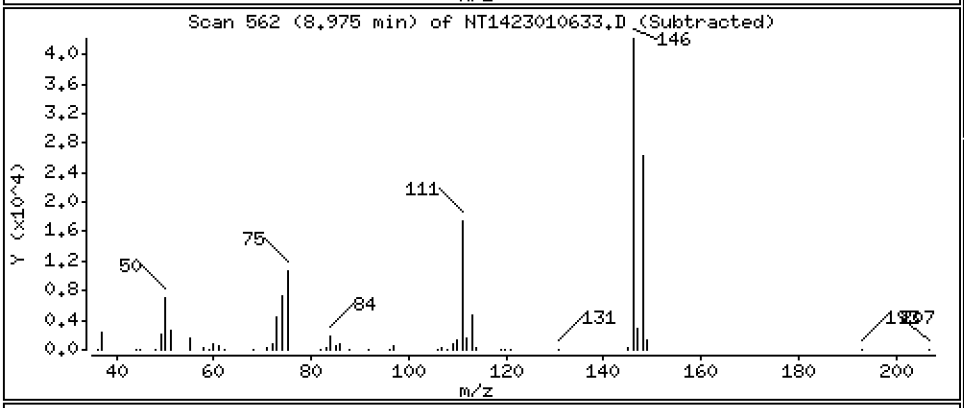
Column phase: ZB-5msi

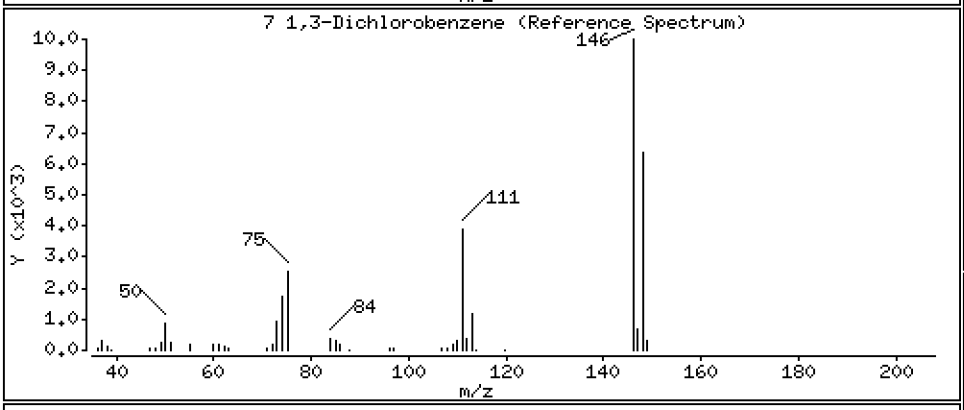
Column diameter: 0.25

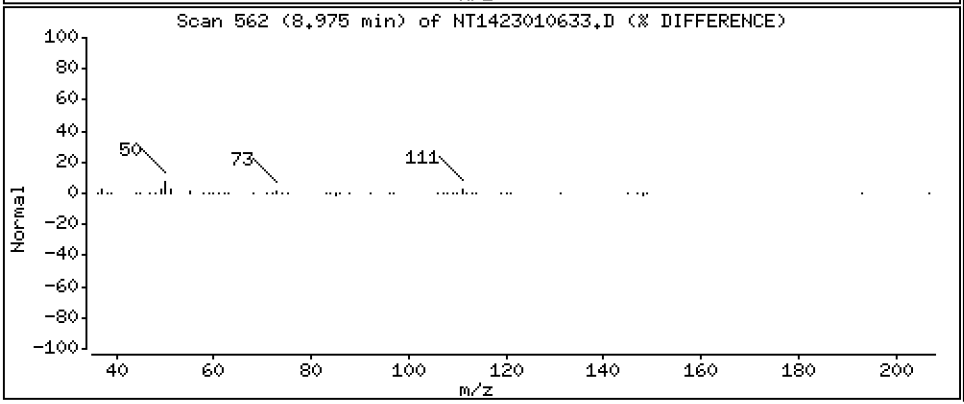
7 1,3-Dichlorobenzene

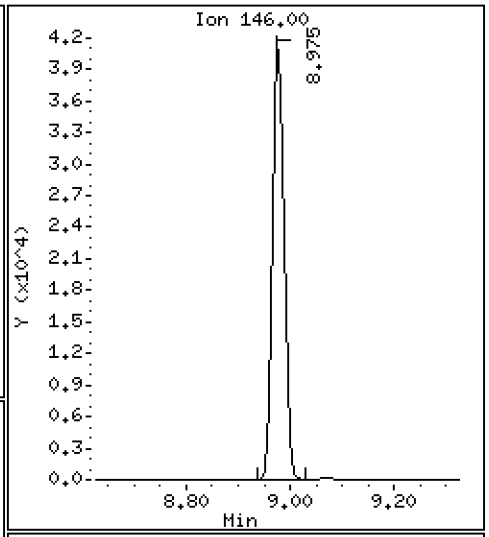
Concentration: 1.466 ug/mL

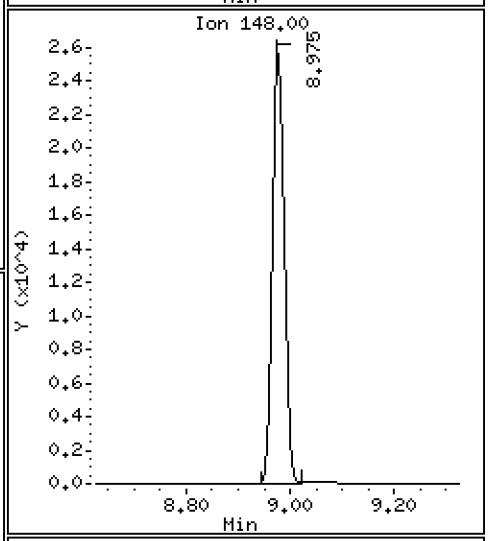


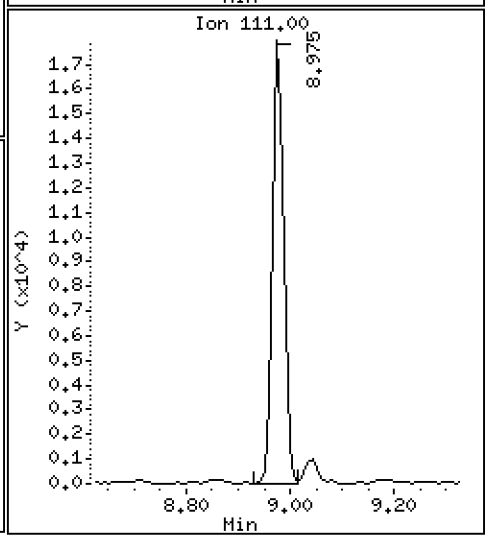












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

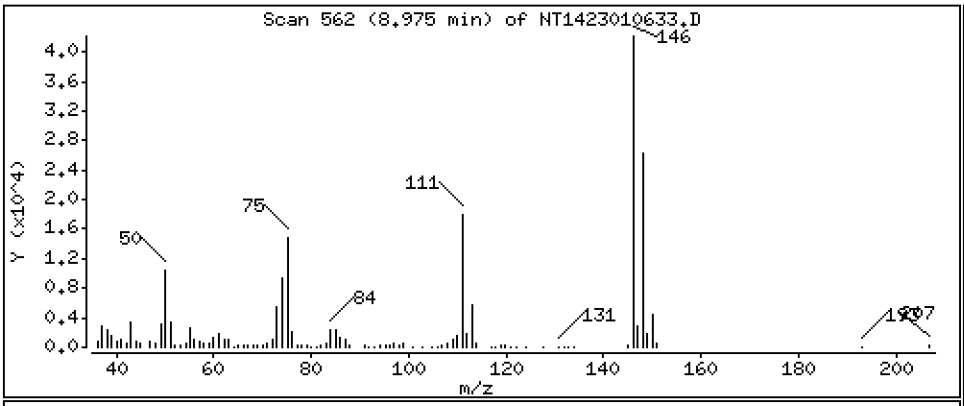
Operator: VTS

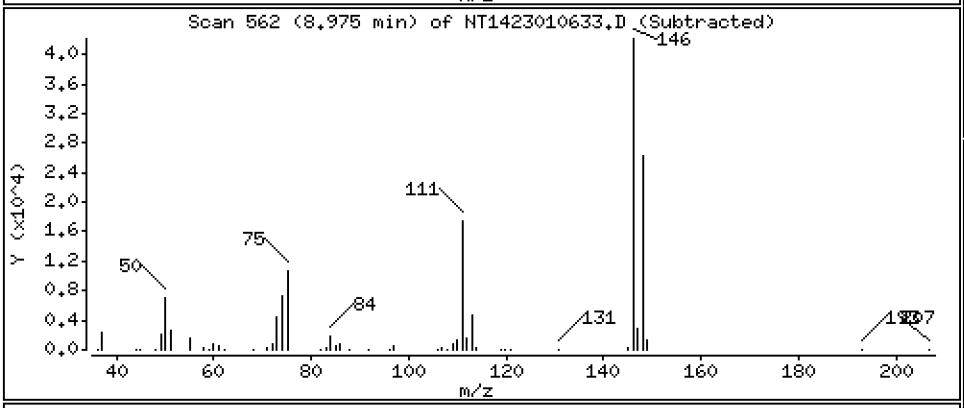
Column phase: ZB-5msi

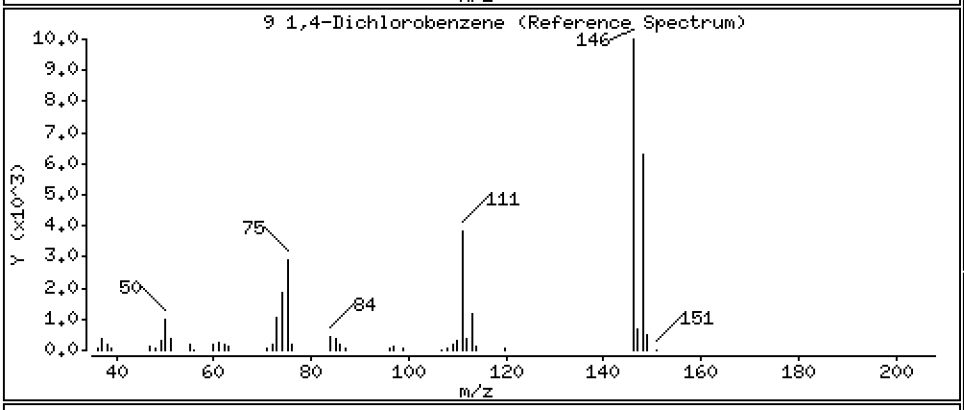
Column diameter: 0.25

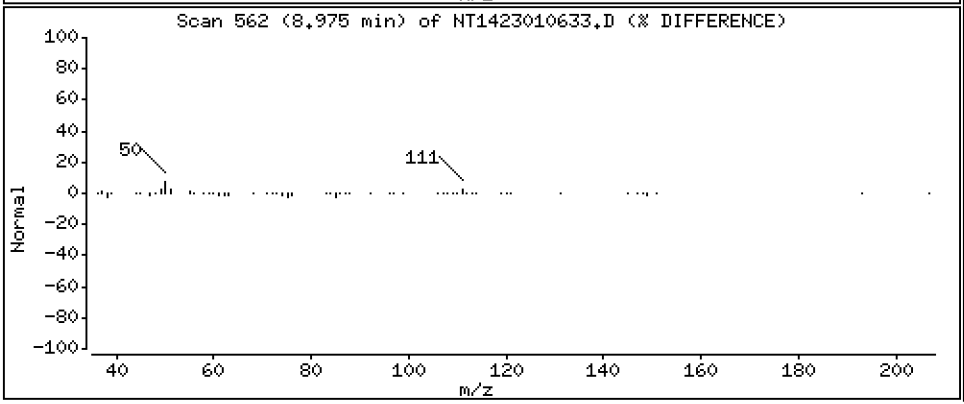
9 1,4-Dichlorobenzene

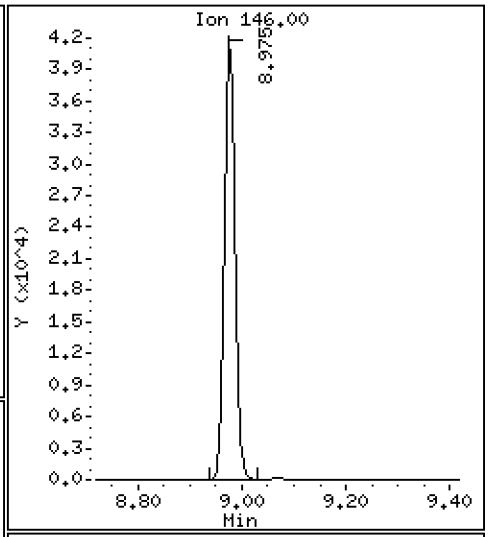
Concentration: 1.548 ug/mL

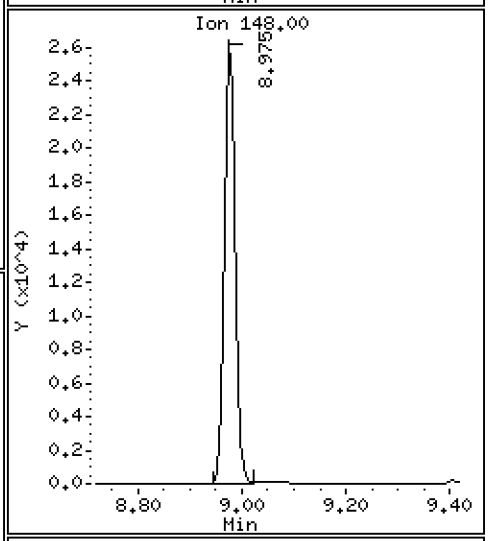


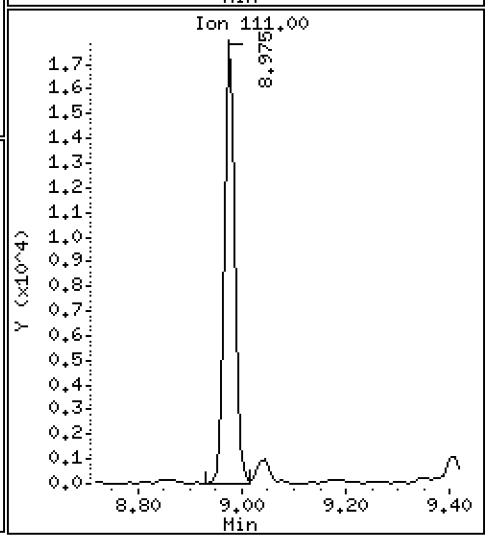












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

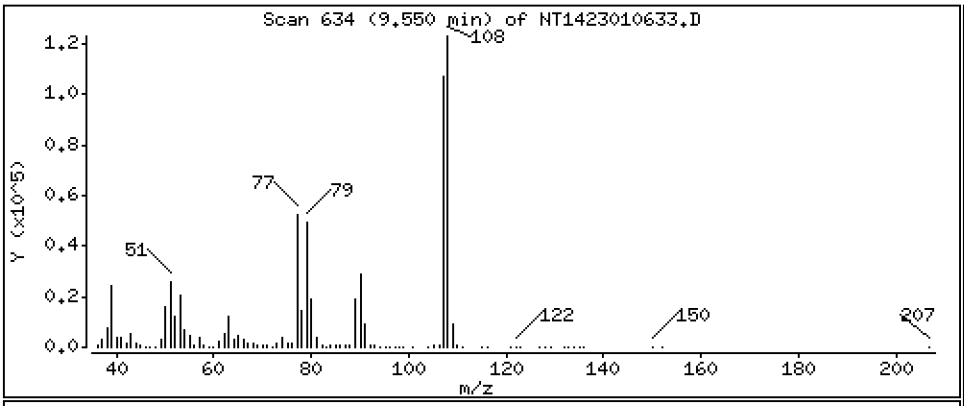
Operator: VTS

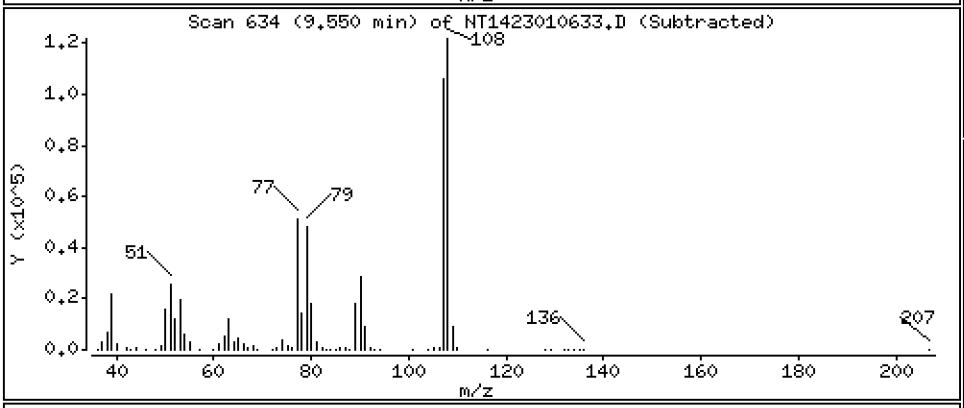
Column phase: ZB-5msi

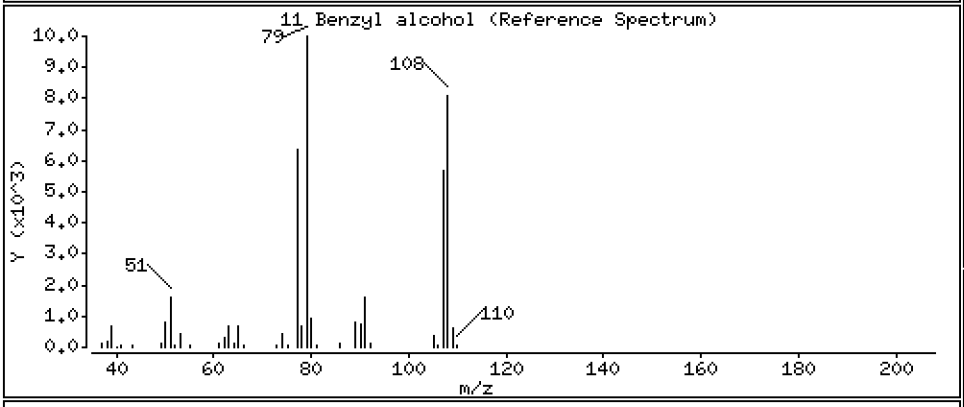
Column diameter: 0.25

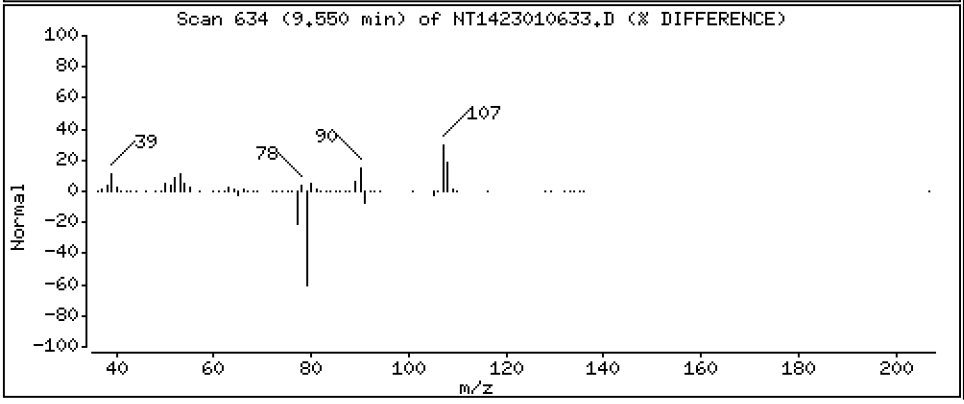
11 Benzyl alcohol

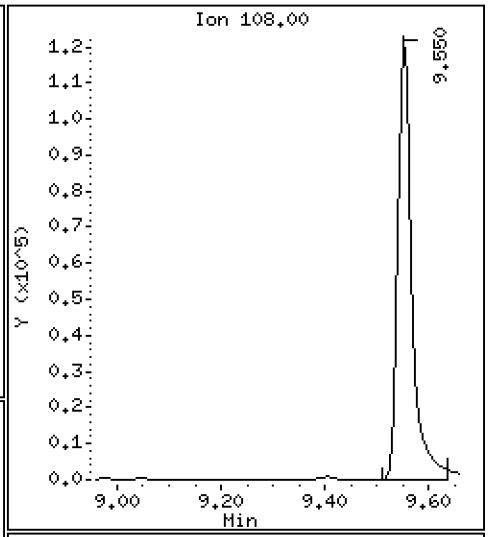
Concentration: 10.06 ug/mL

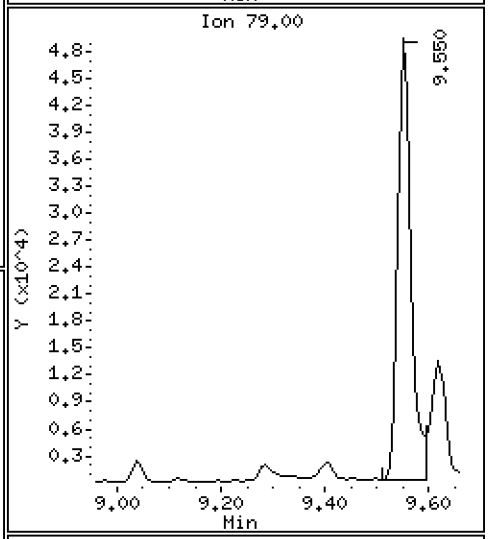


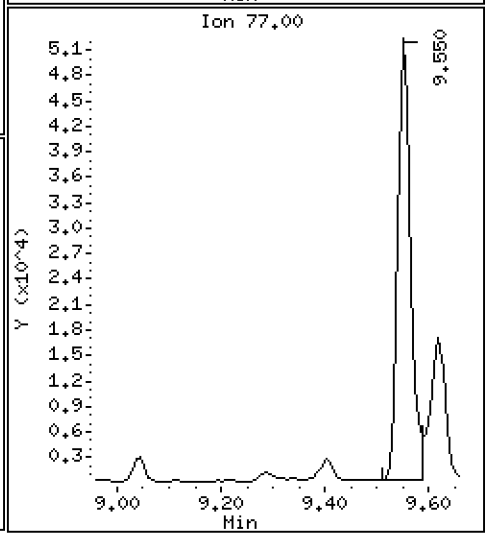












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

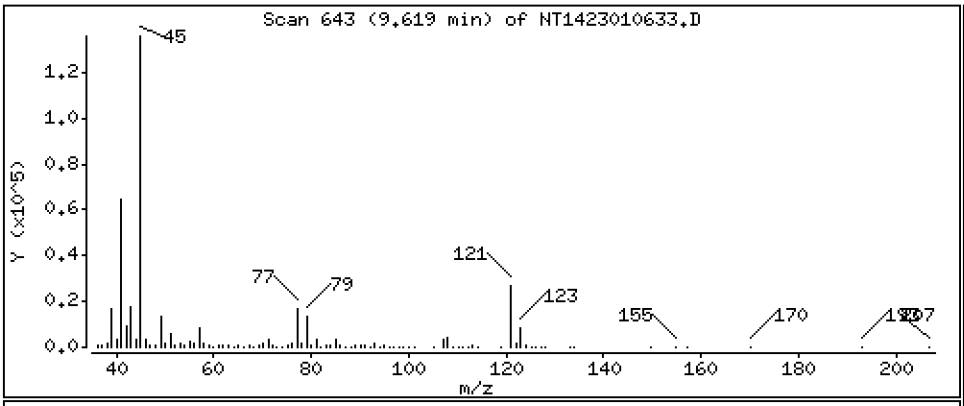
Operator: VTS

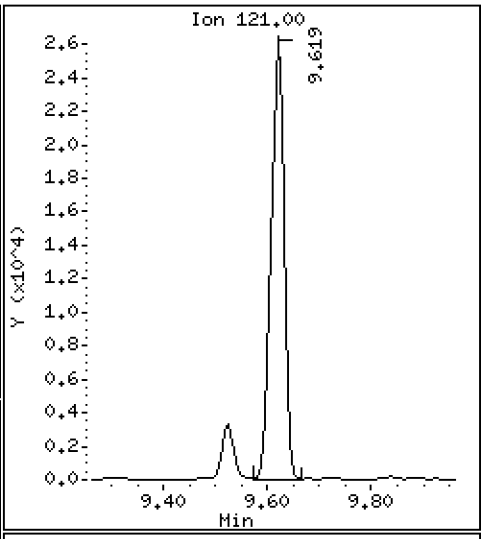
Column phase: ZB-5msi

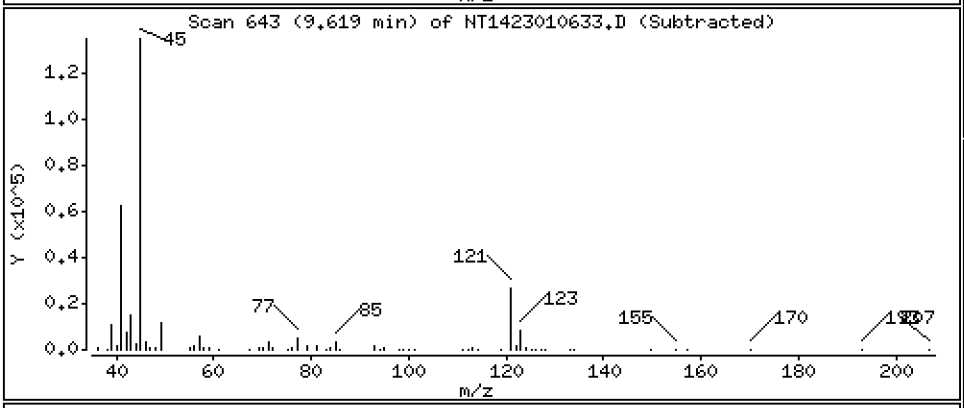
Column diameter: 0.25

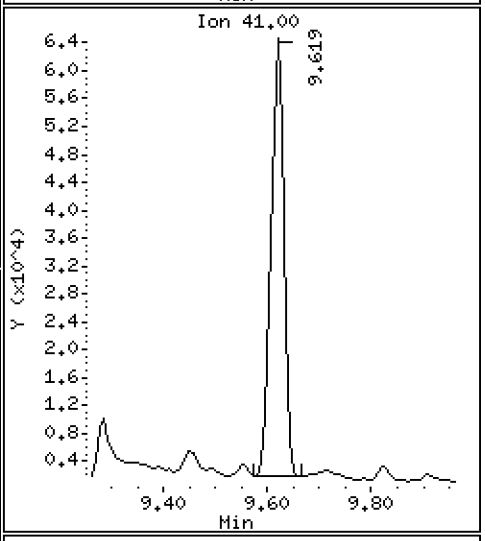
14 2,2'-oxybis(1-Chloropropane)

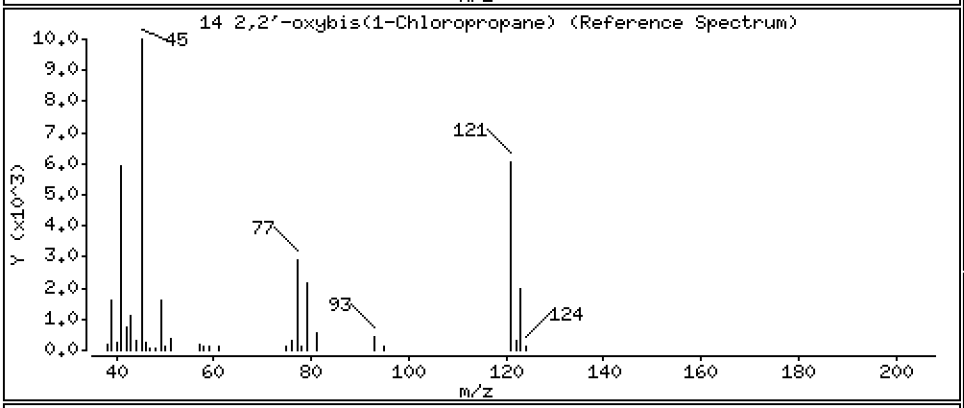
Concentration: 3.953 ug/mL

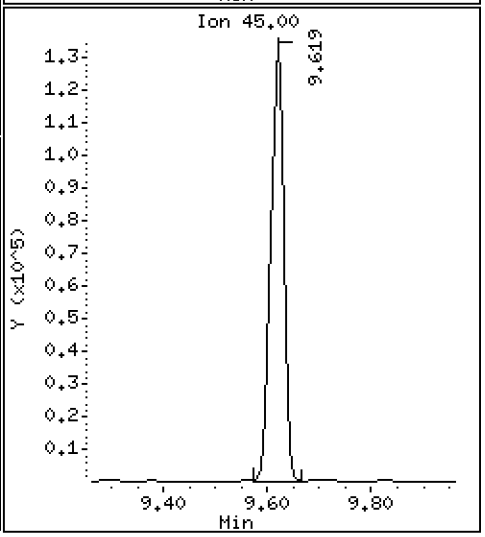


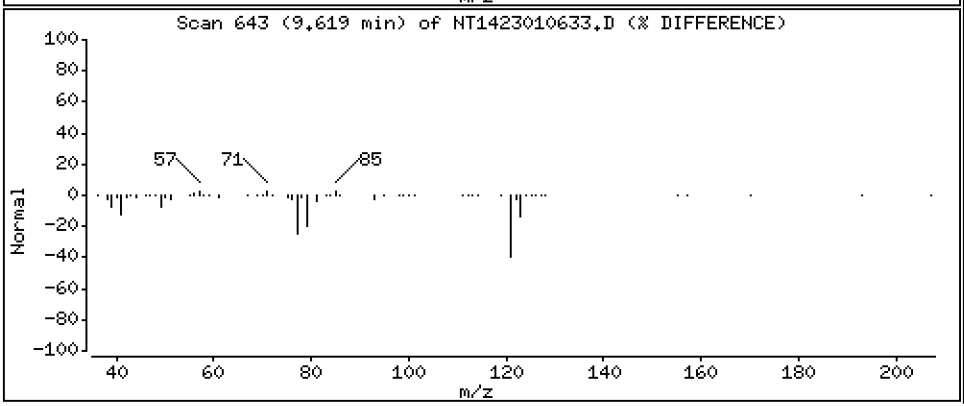












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

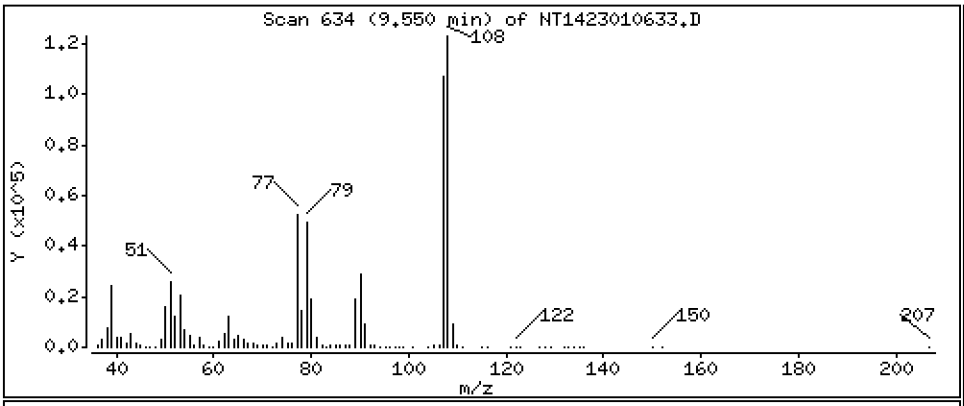
Operator: VTS

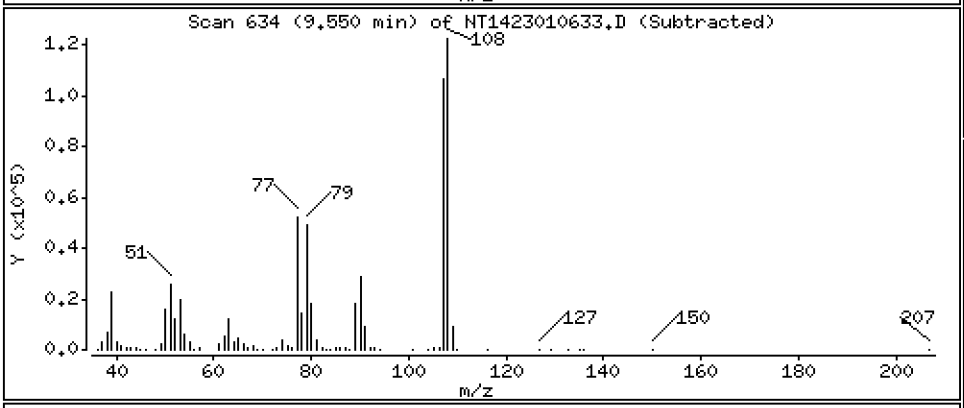
Column phase: ZB-5msi

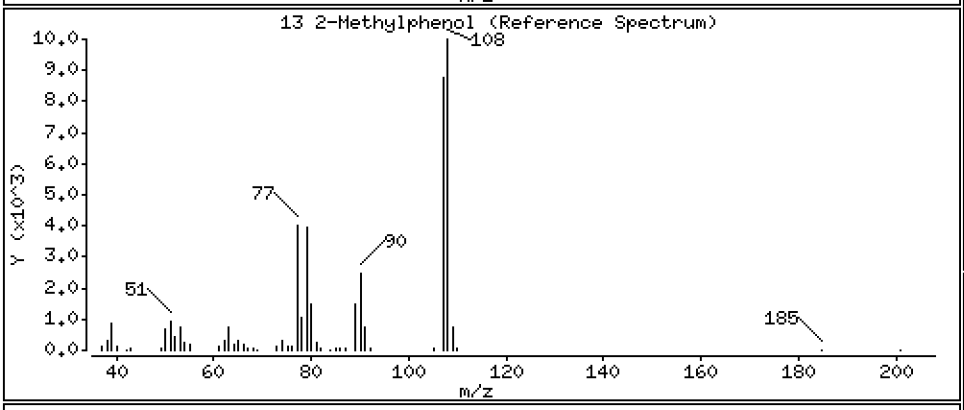
Column diameter: 0.25

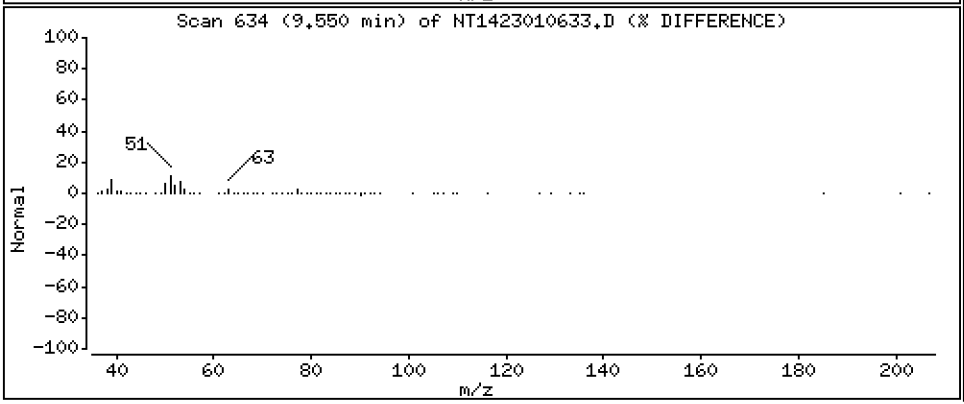
13 2-Methylphenol

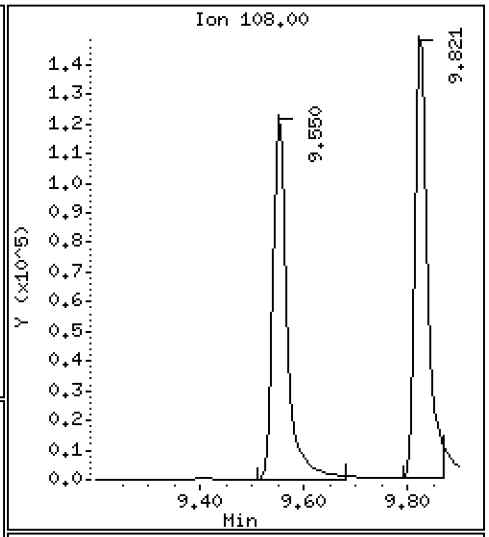
Concentration: 6.278 ug/mL

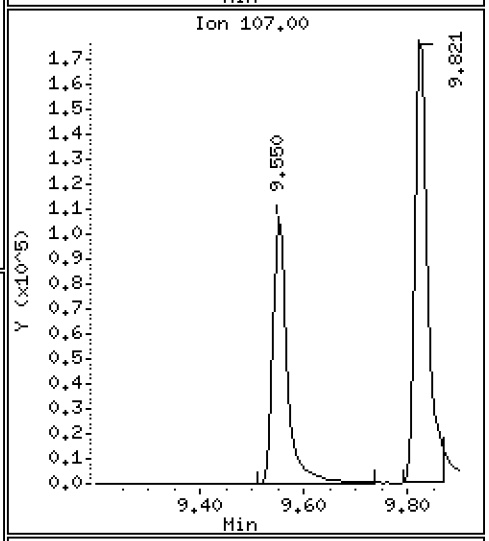


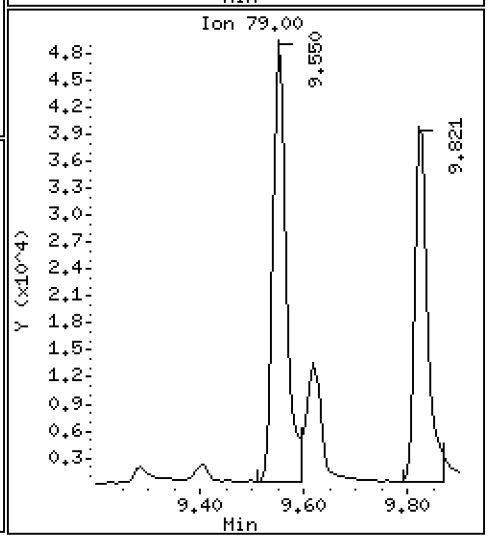












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

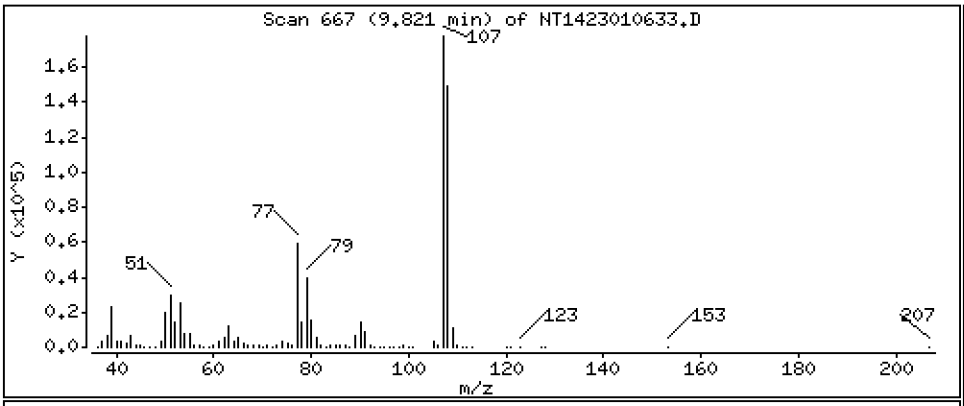
Operator: VTS

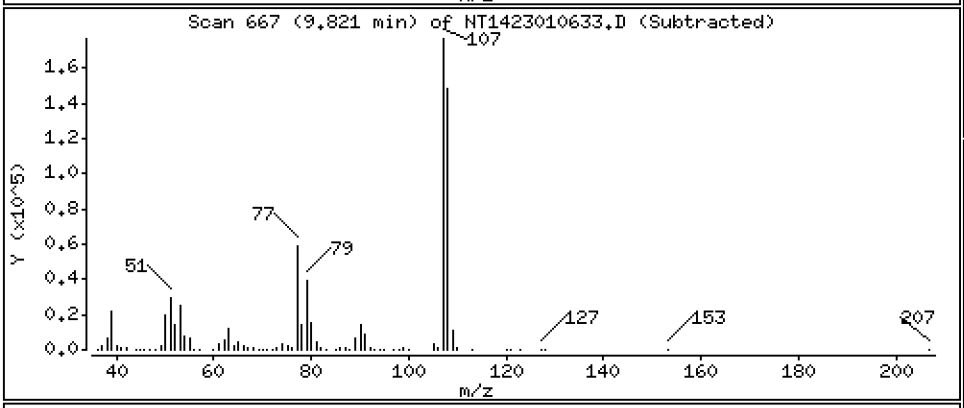
Column phase: ZB-5msi

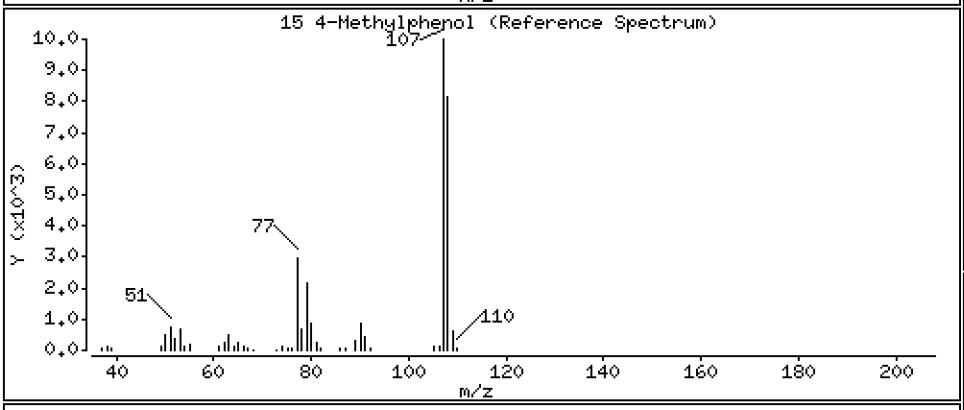
Column diameter: 0.25

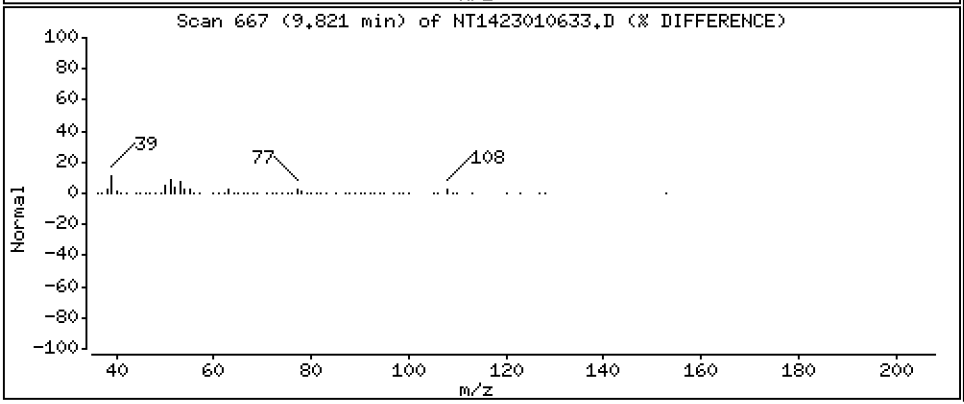
15 4-Methylphenol

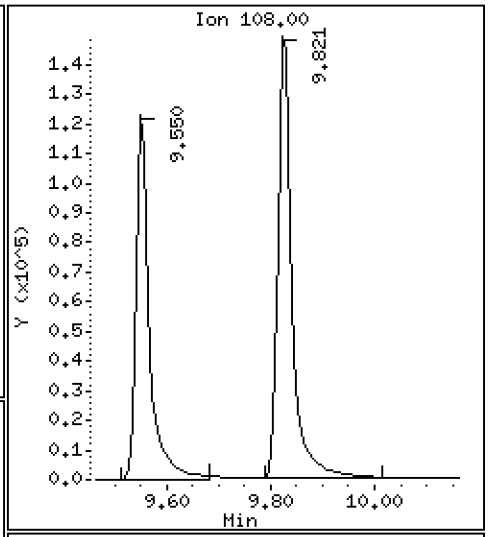
Concentration: 7.569 ug/mL

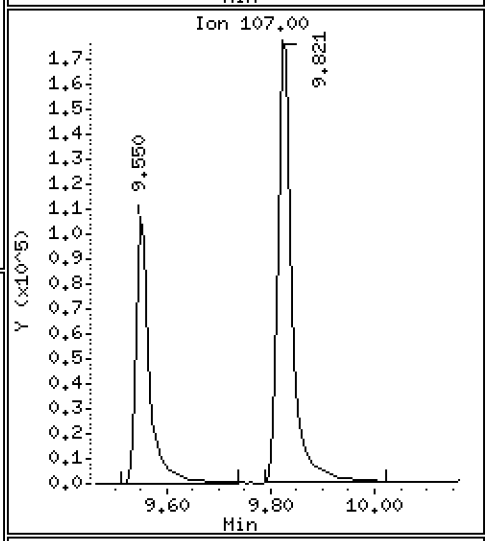


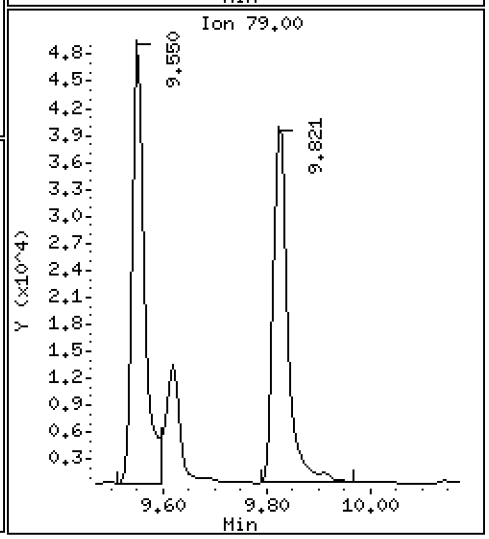












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

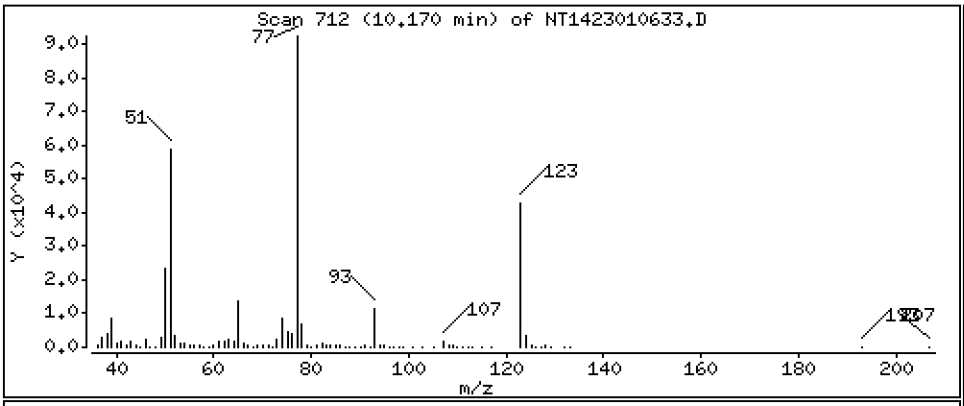
Operator: VTS

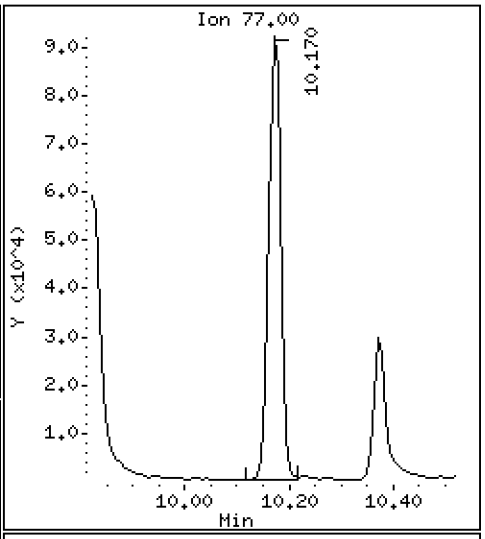
Column phase: ZB-5msi

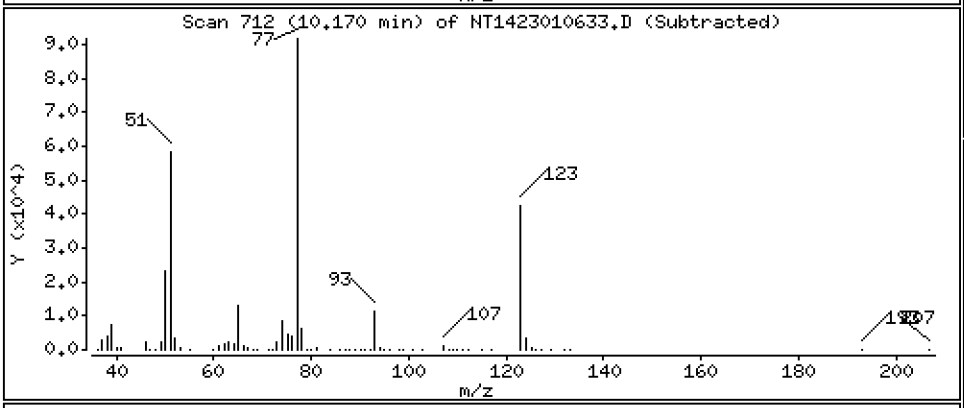
Column diameter: 0.25

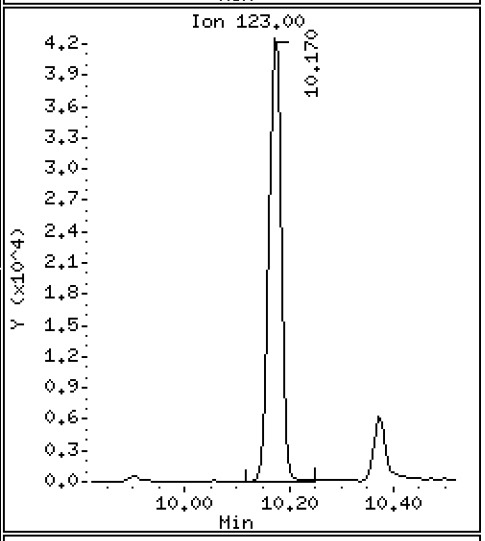
19 Nitrobenzene

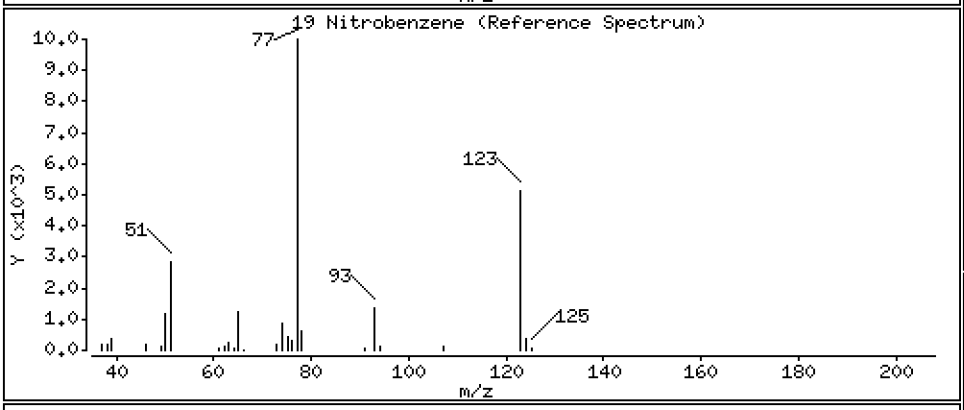
Concentration: 4.176 ug/mL

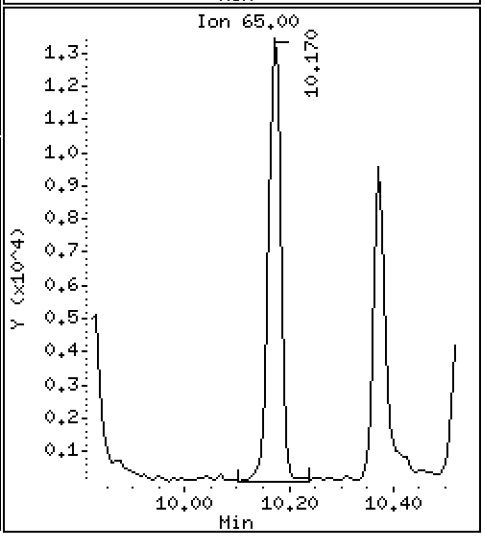


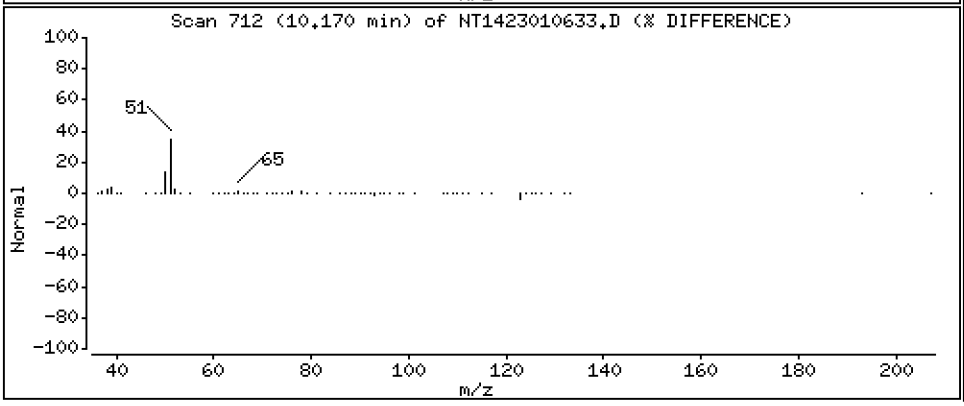












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

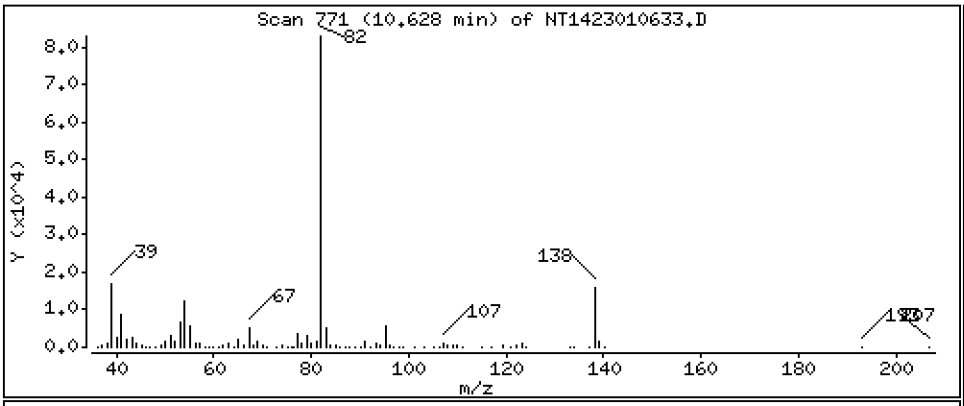
Operator: VTS

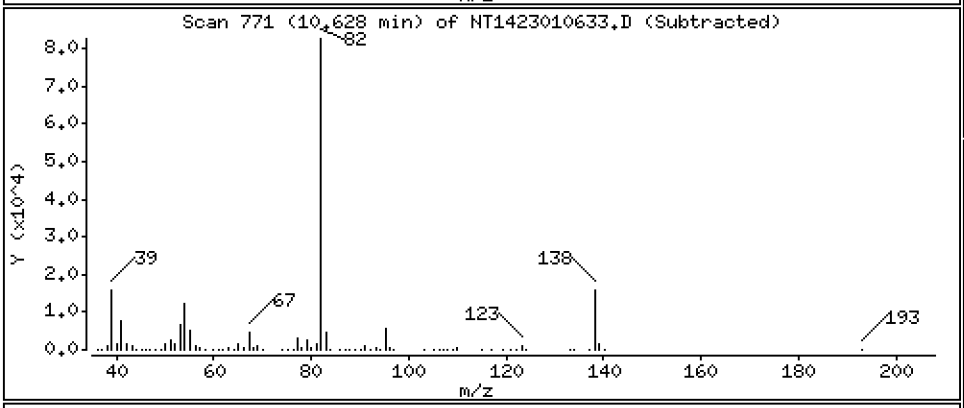
Column phase: ZB-5msi

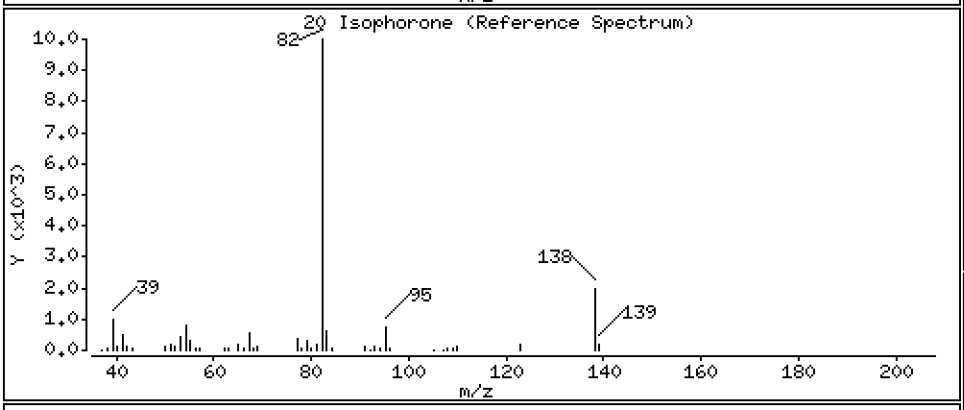
Column diameter: 0.25

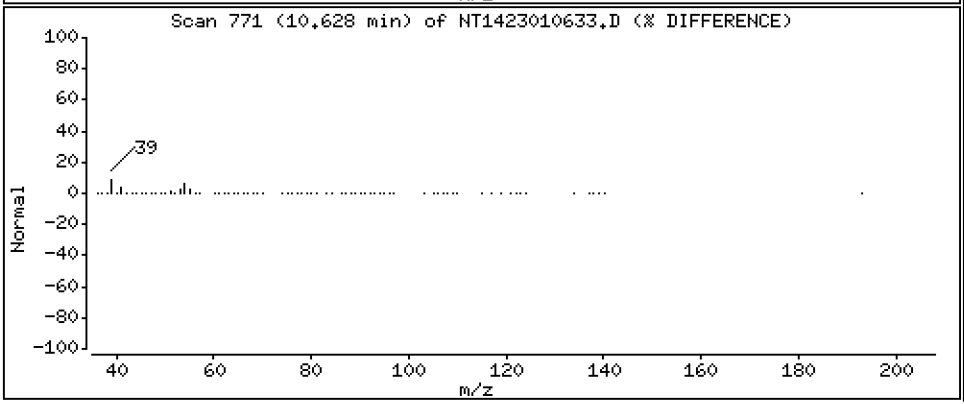
20 Isophorone

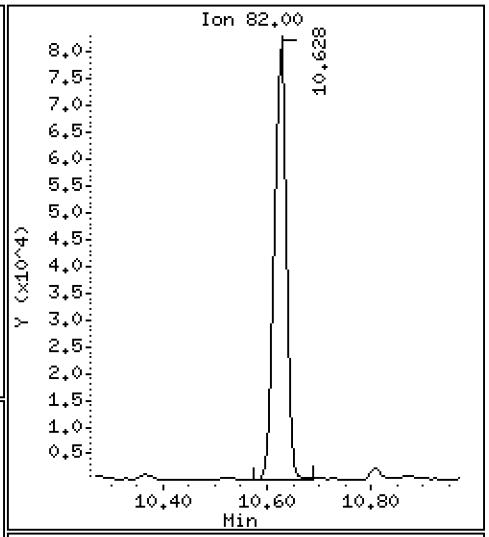
Concentration: 2.912 ug/mL

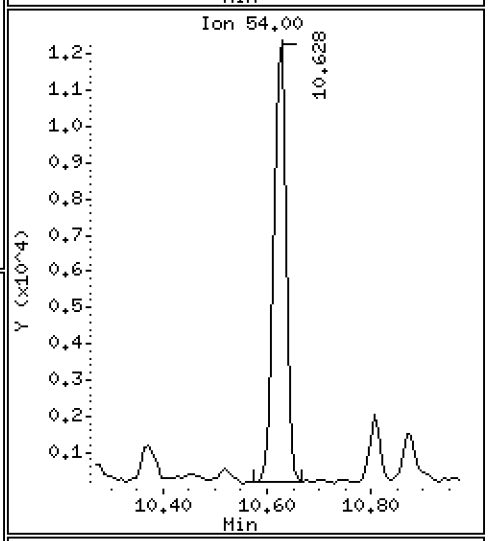


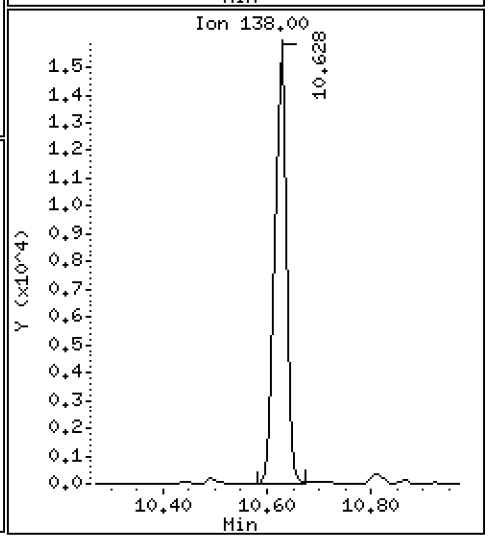












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

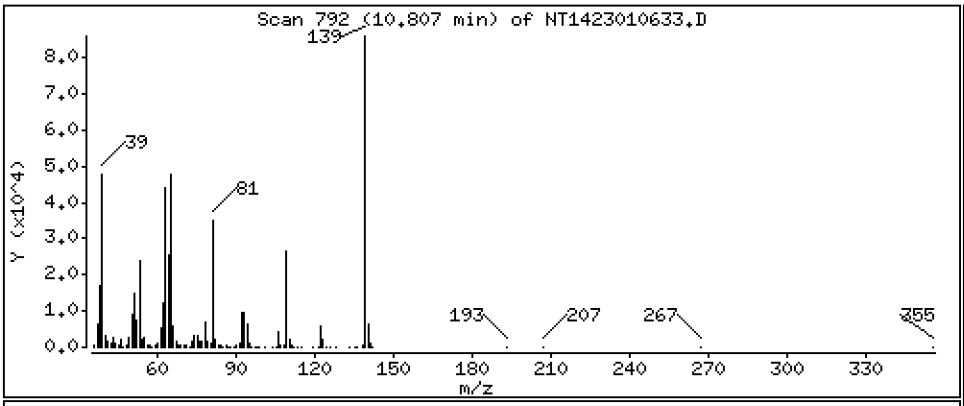
Operator: VTS

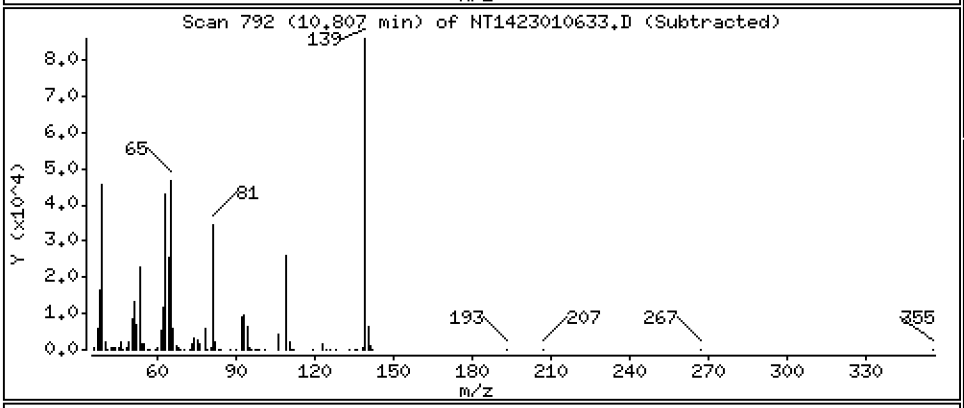
Column phase: ZB-5msi

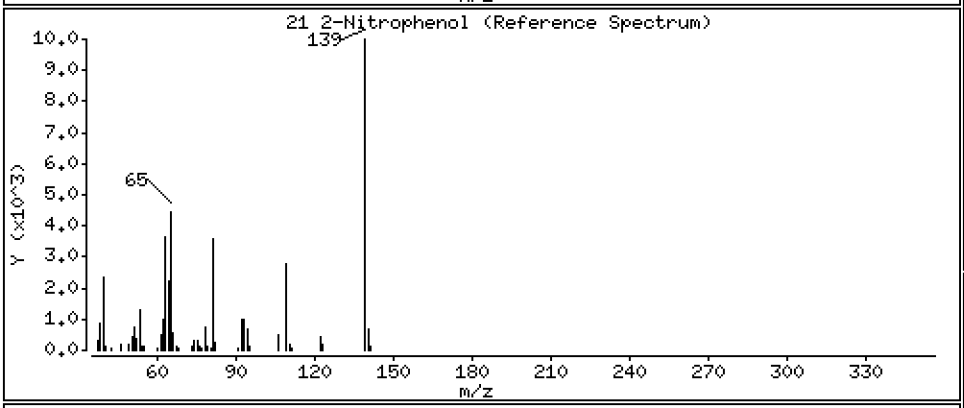
Column diameter: 0.25

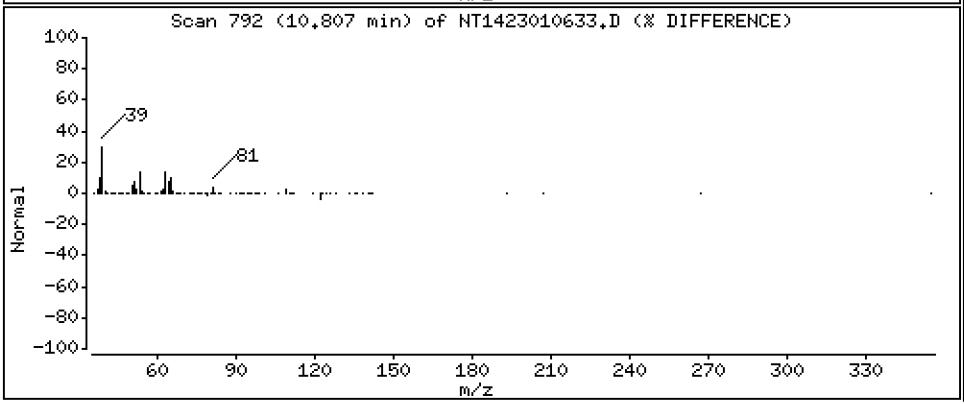
21 2-Nitrophenol

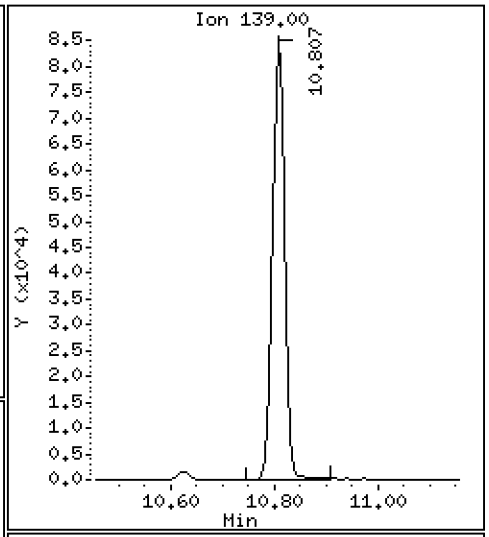
Concentration: 6.499 ug/mL

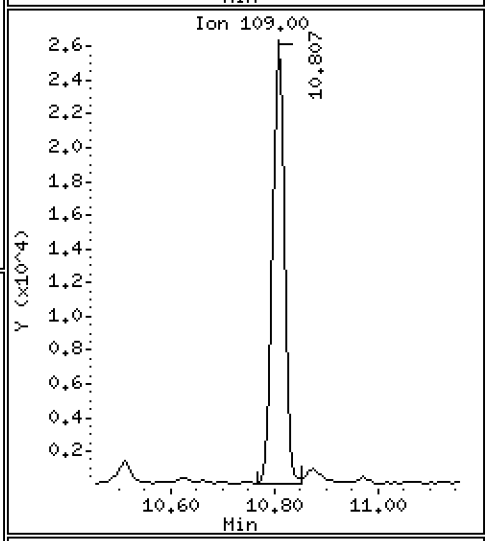


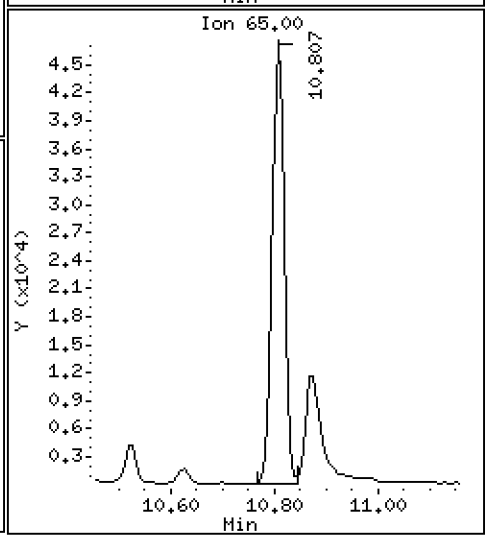












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

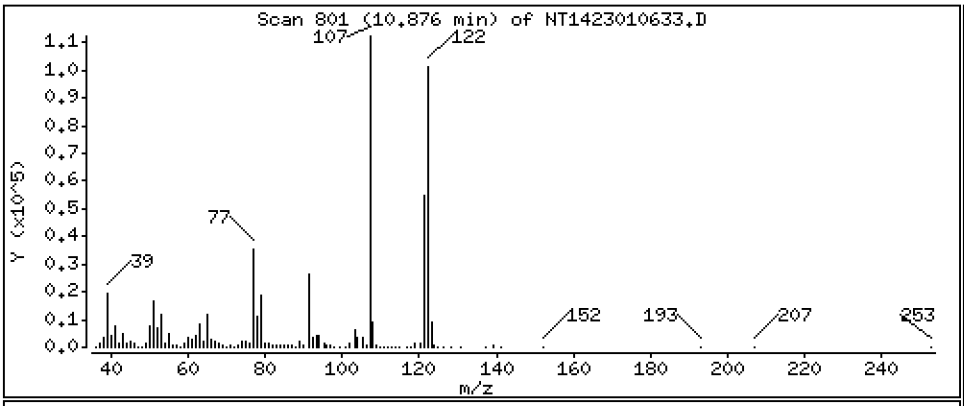
Operator: VTS

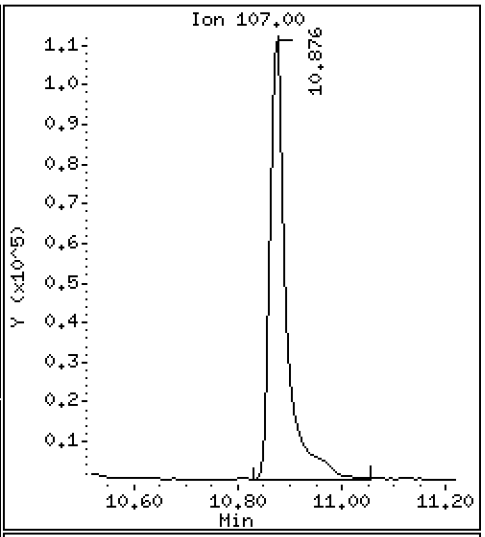
Column phase: ZB-5msi

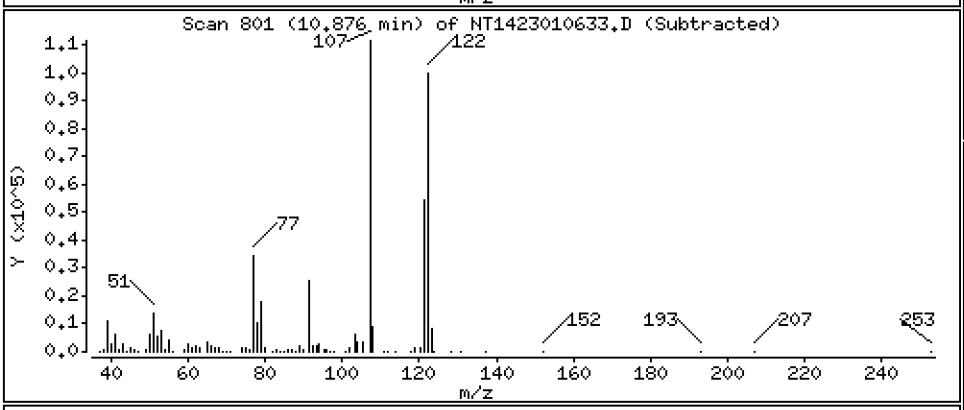
Column diameter: 0.25

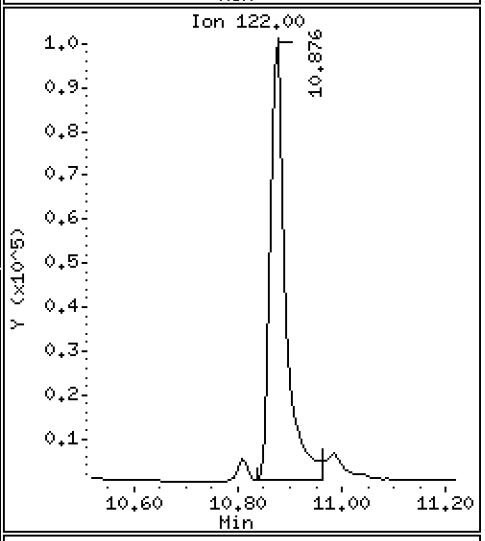
22 2,4-Dimethylphenol

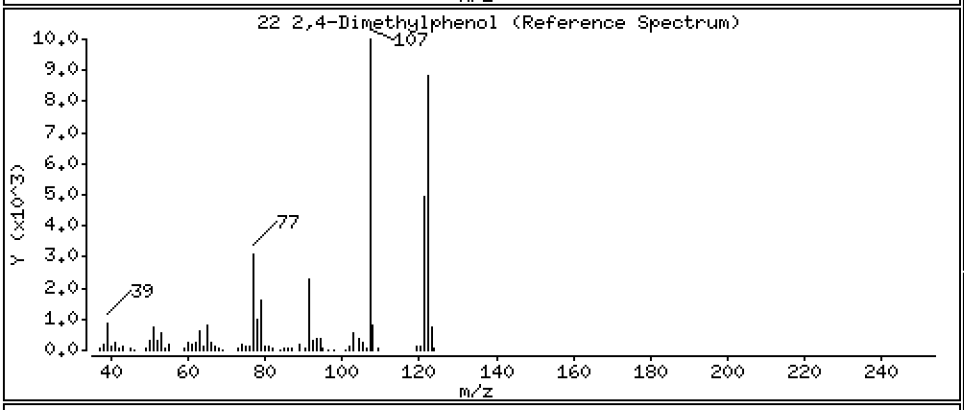
Concentration: 6.673 ug/mL

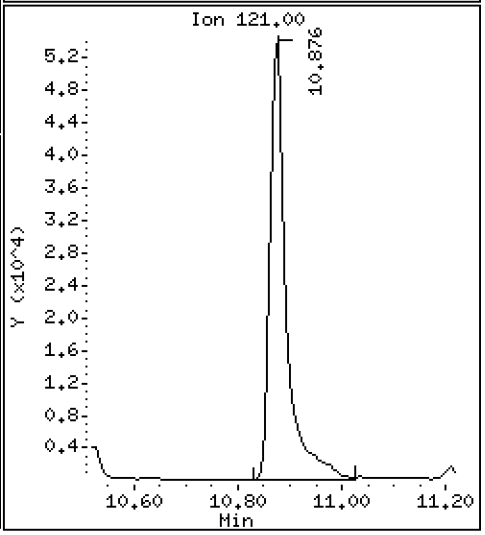


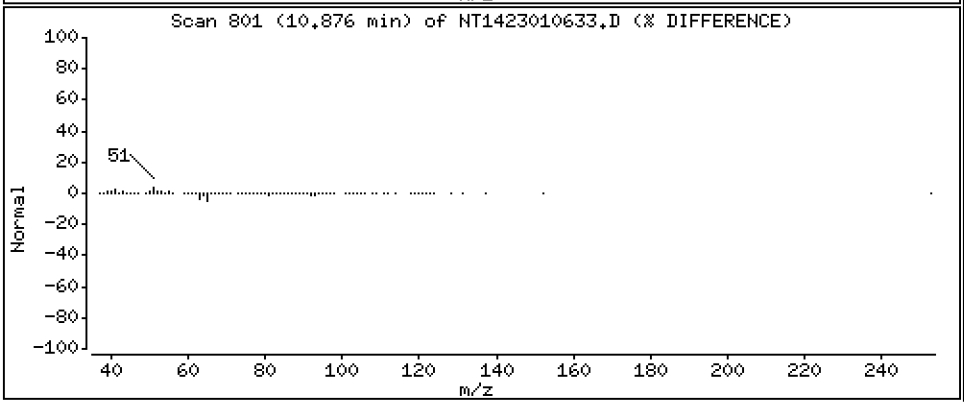












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

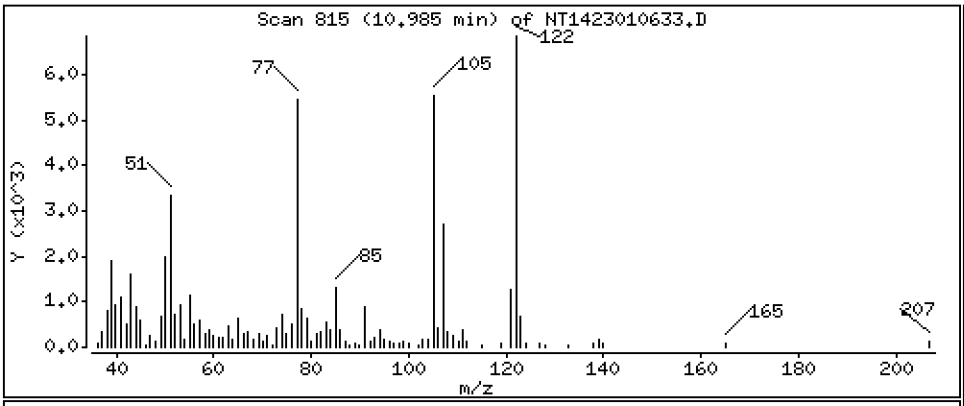
Operator: VTS

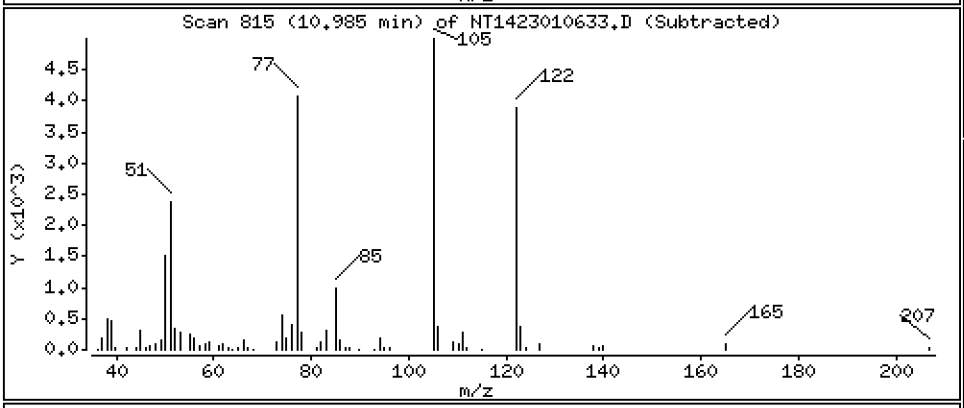
Column phase: ZB-5msi

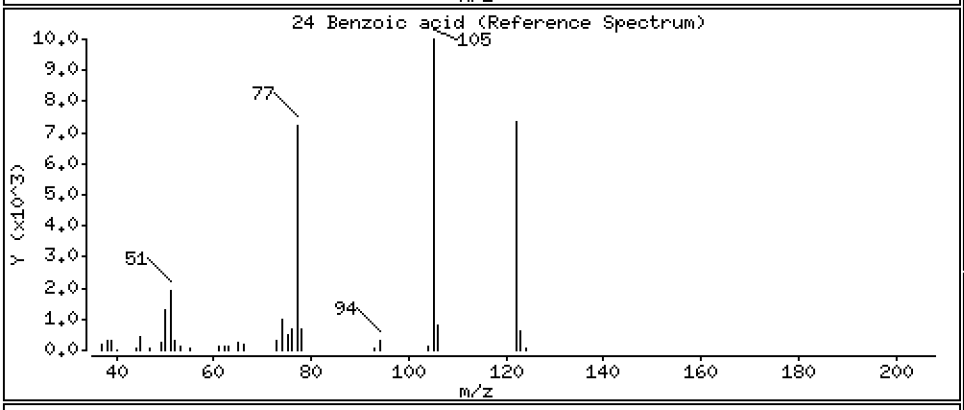
Column diameter: 0.25

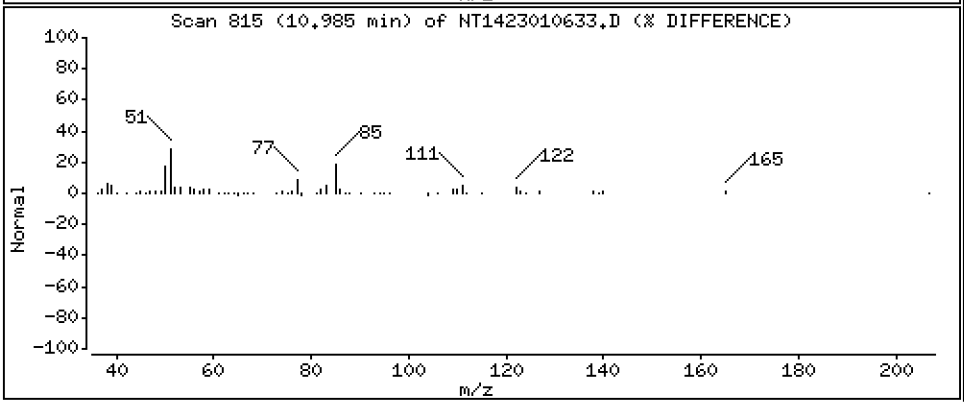
24 Benzoic acid

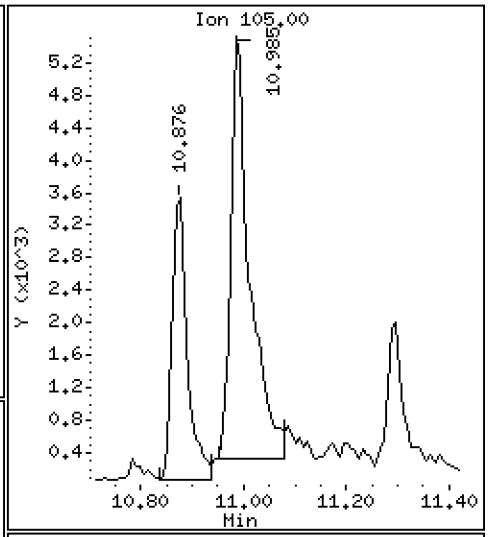
Concentration: 0.6311 ug/mL

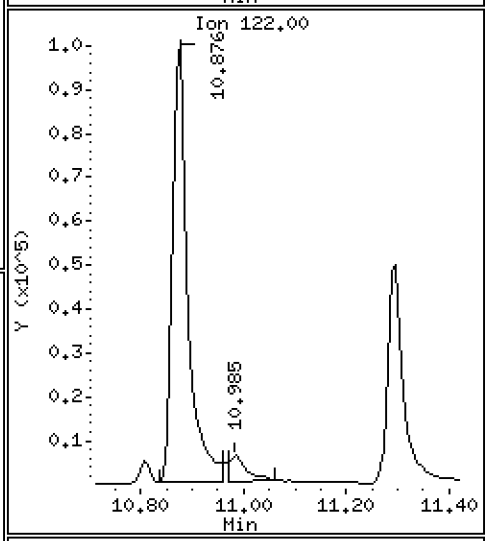


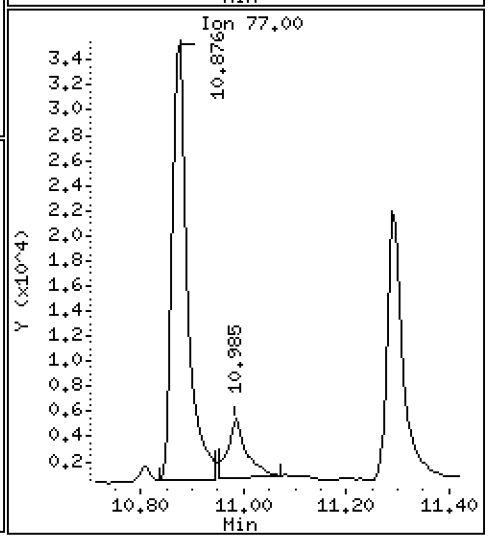












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

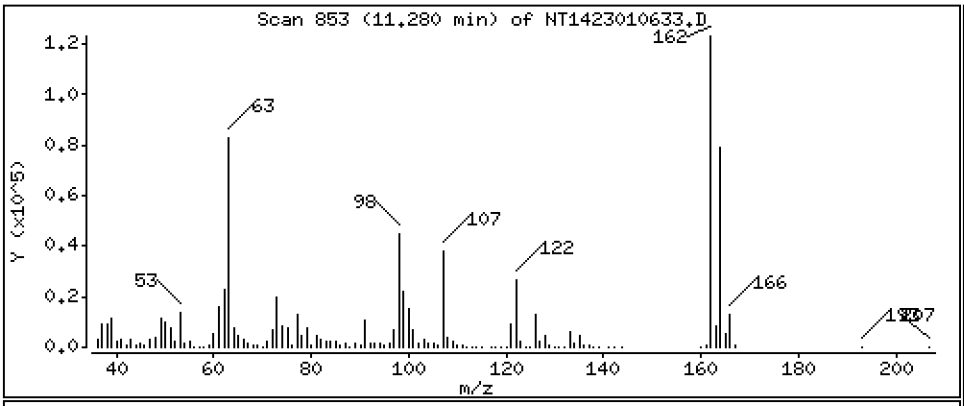
Operator: VTS

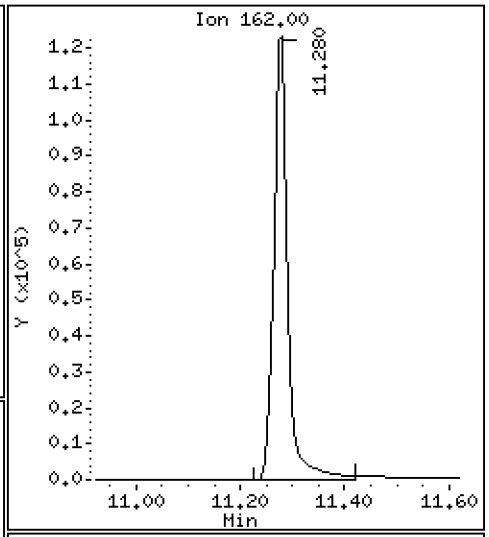
Column phase: ZB-5msi

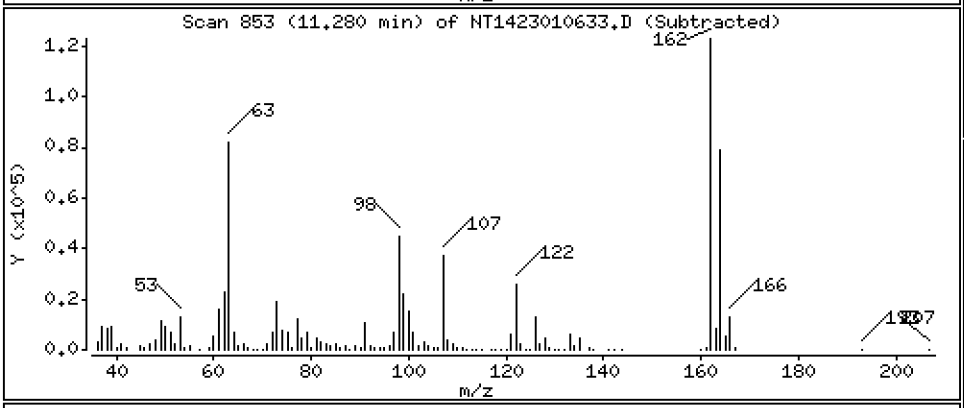
Column diameter: 0.25

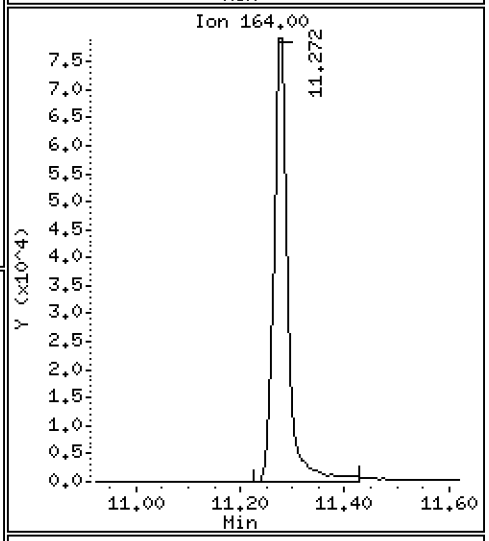
25 2,4-Dichlorophenol

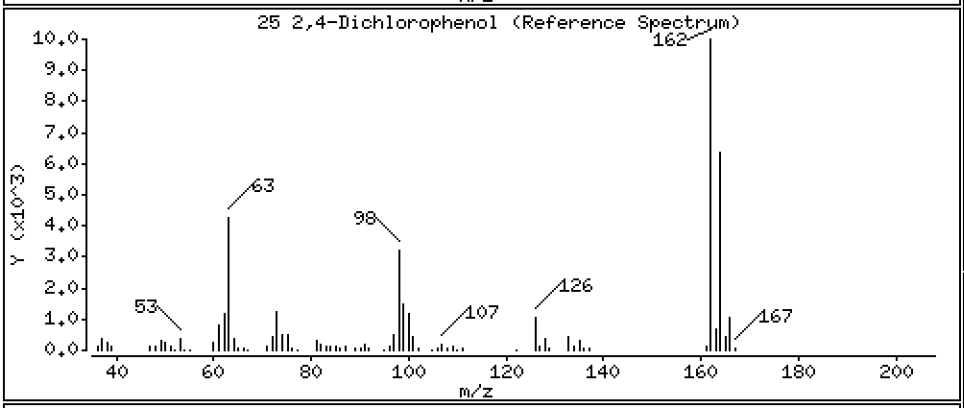
Concentration: 8.312 ug/mL

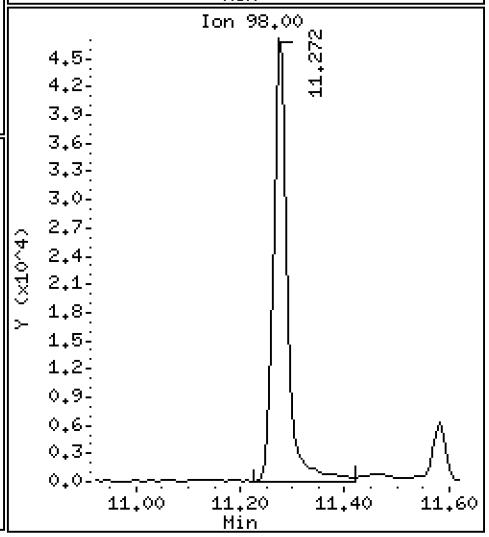


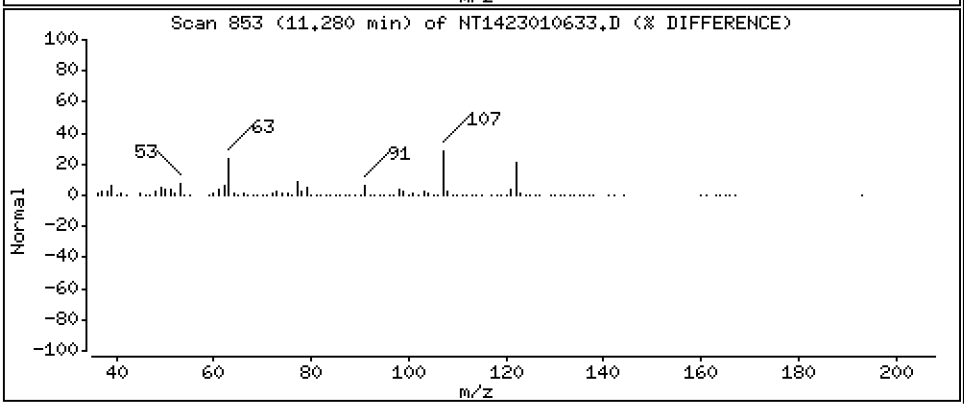












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

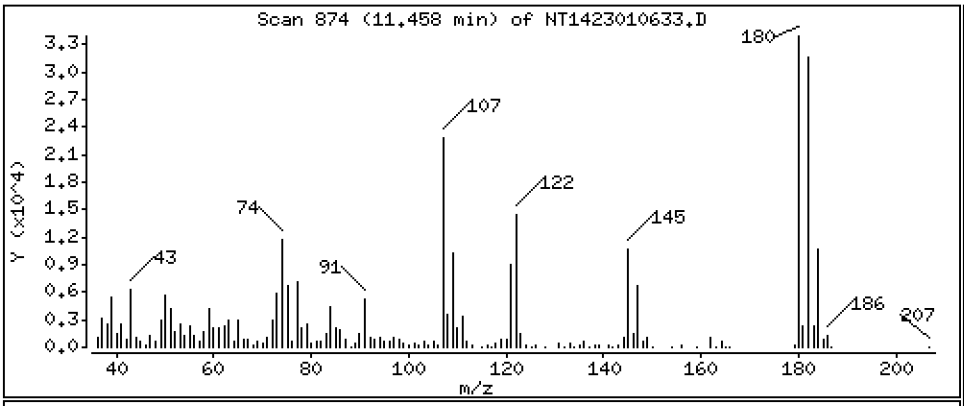
Operator: VTS

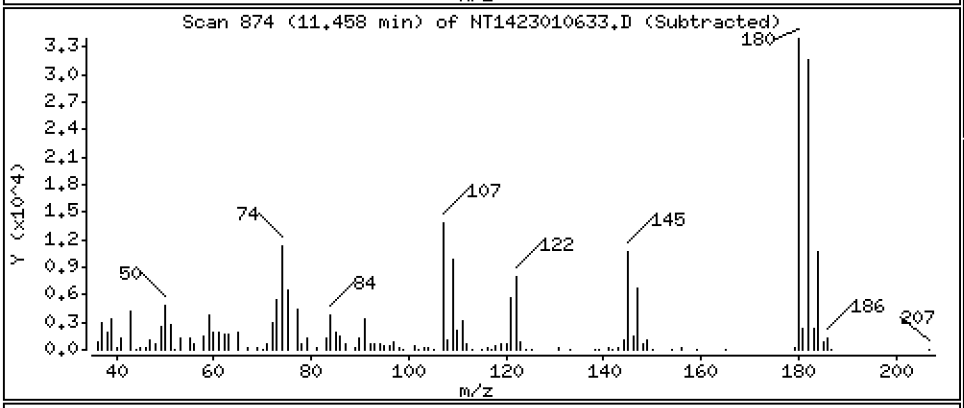
Column phase: ZB-5msi

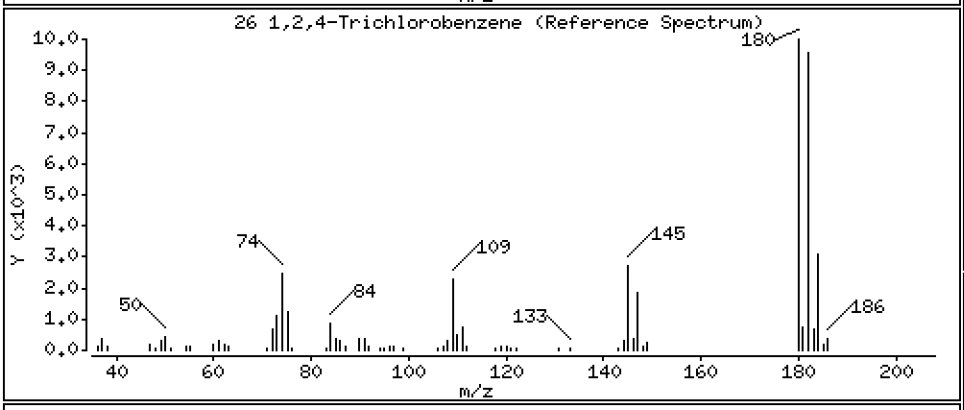
Column diameter: 0.25

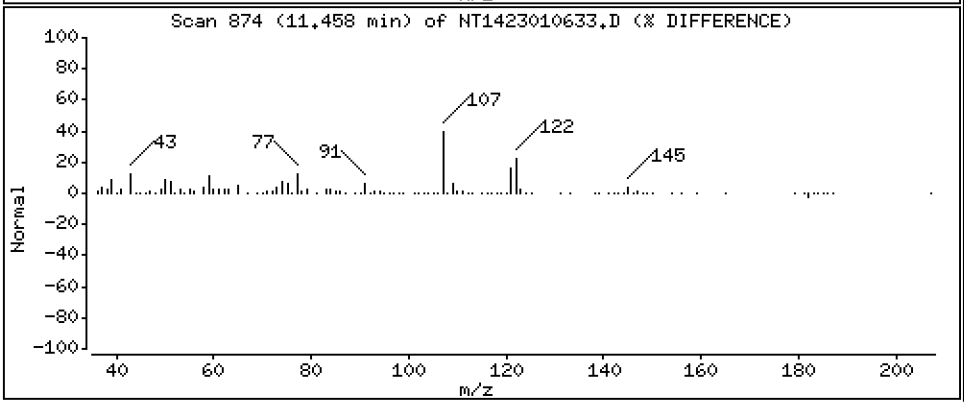
26 1,2,4-Trichlorobenzene

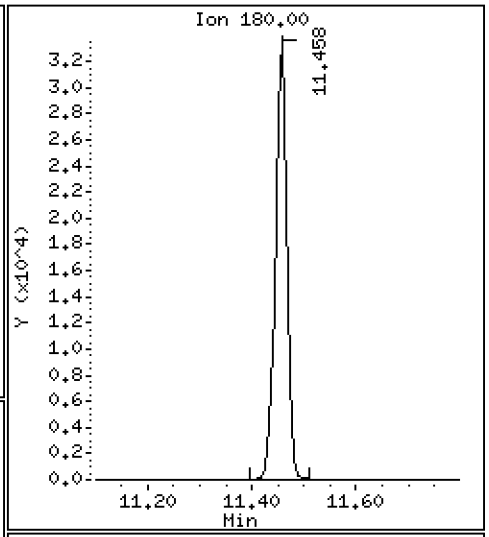
Concentration: 1.841 ug/mL

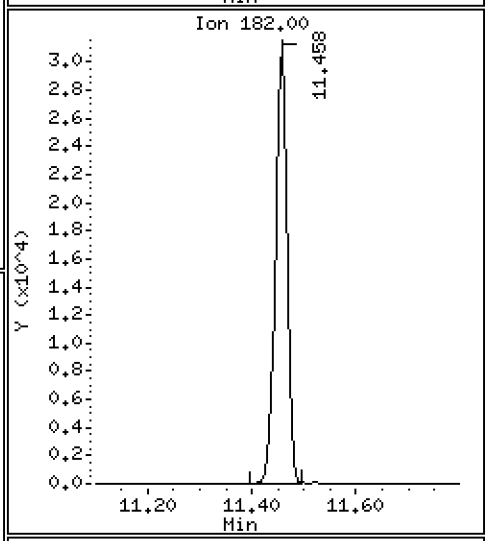


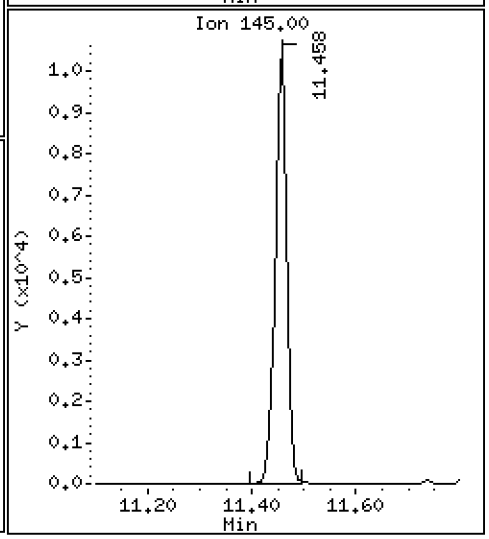












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

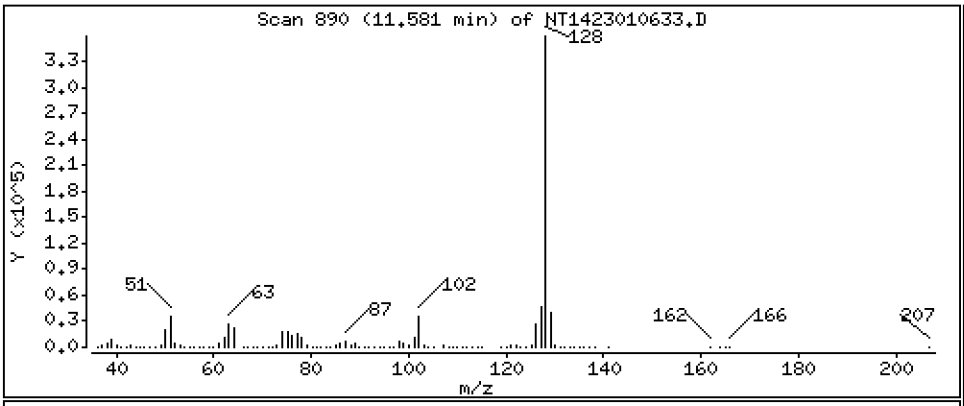
Operator: VTS

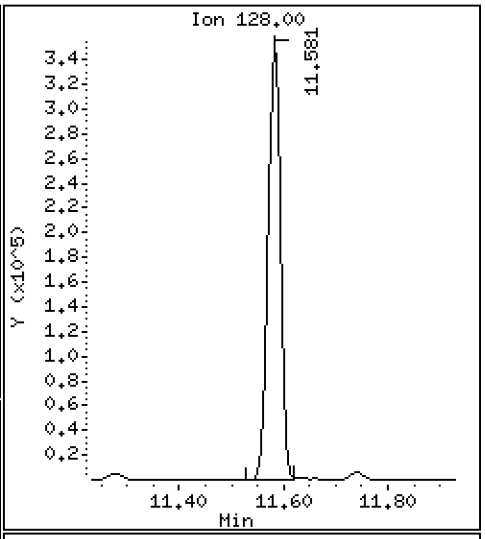
Column phase: ZB-5msi

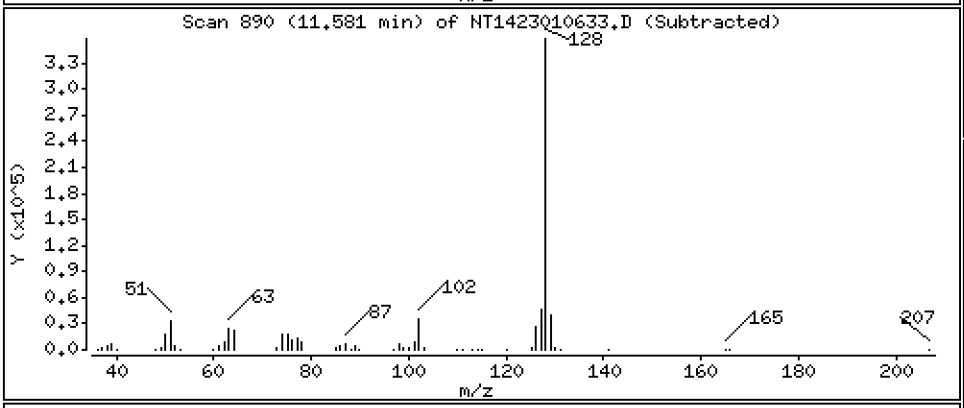
Column diameter: 0.25

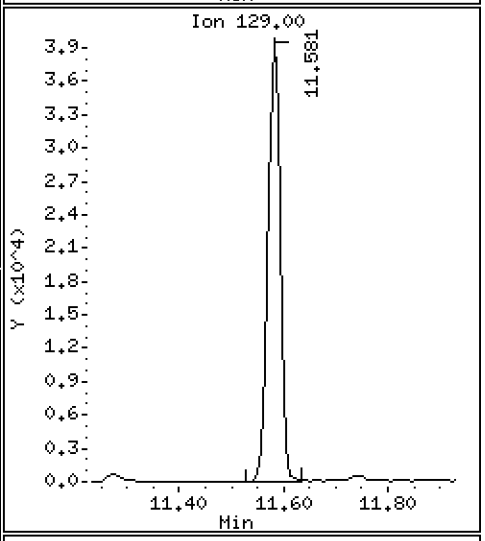
28 Naphthalene

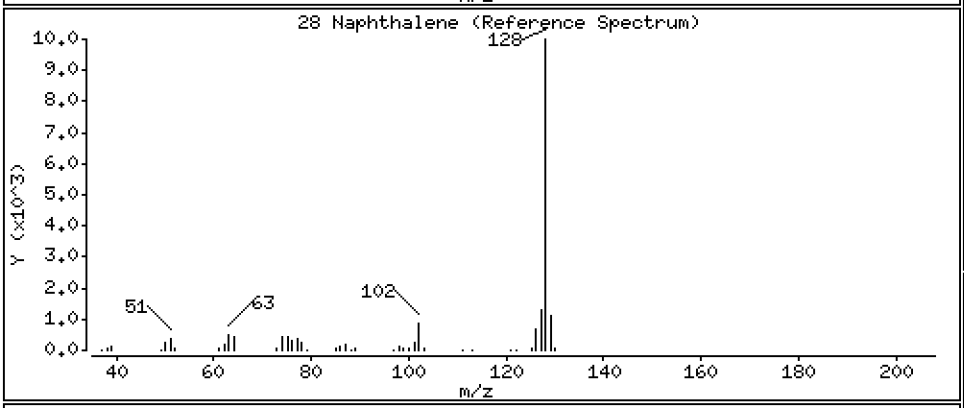
Concentration: 5.499 ug/mL

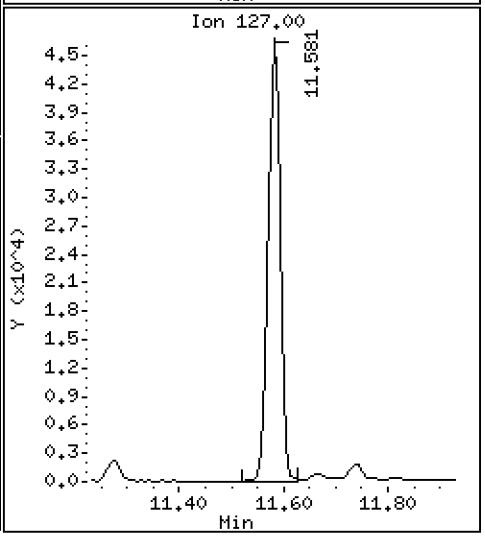


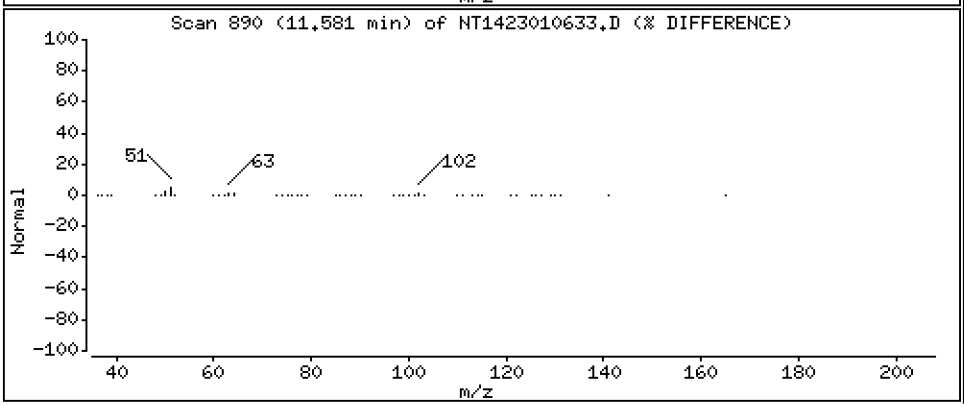












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

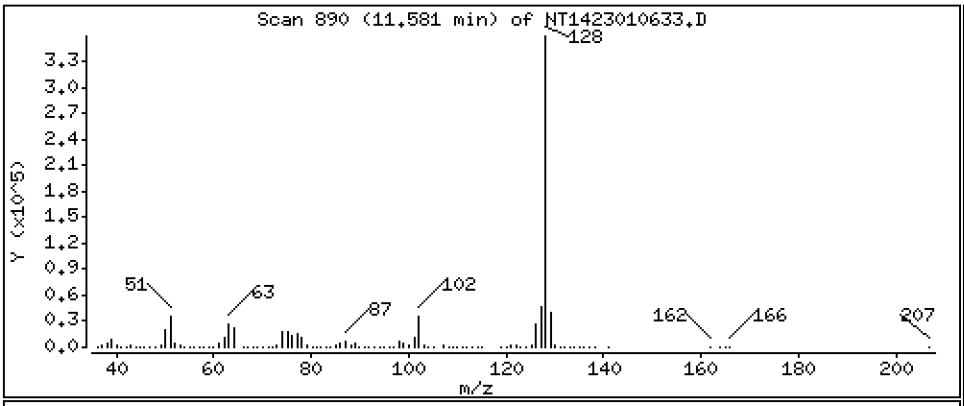
Operator: VTS

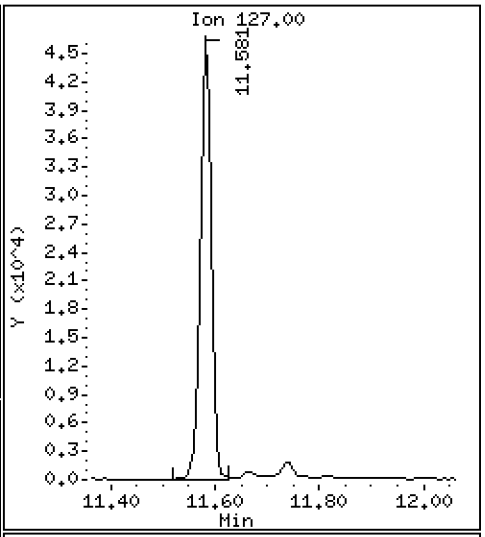
Column phase: ZB-5msi

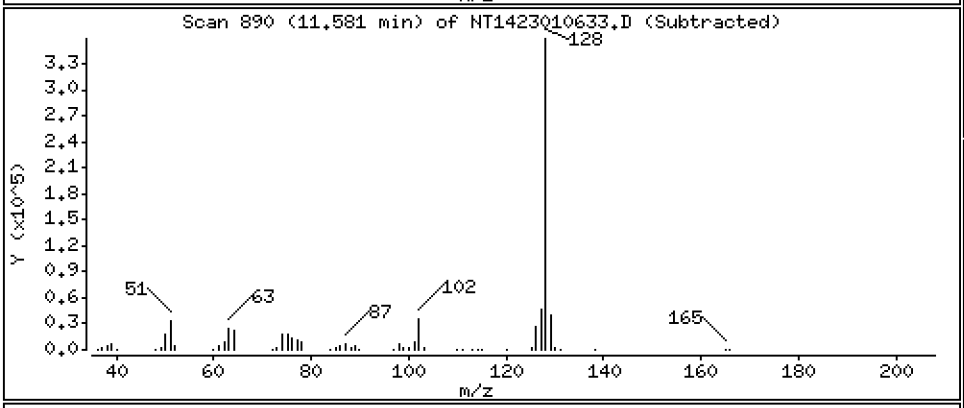
Column diameter: 0.25

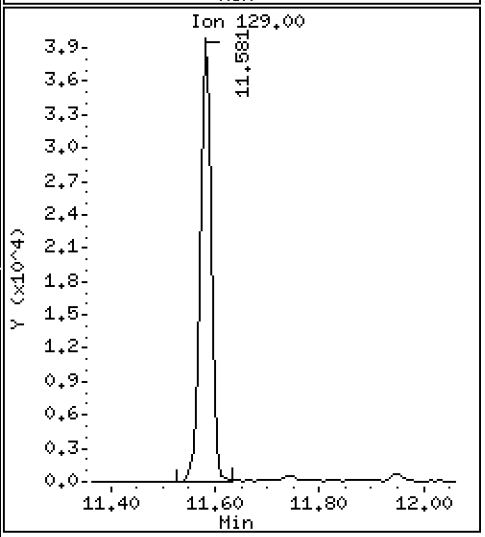
29 4-Chloroaniline

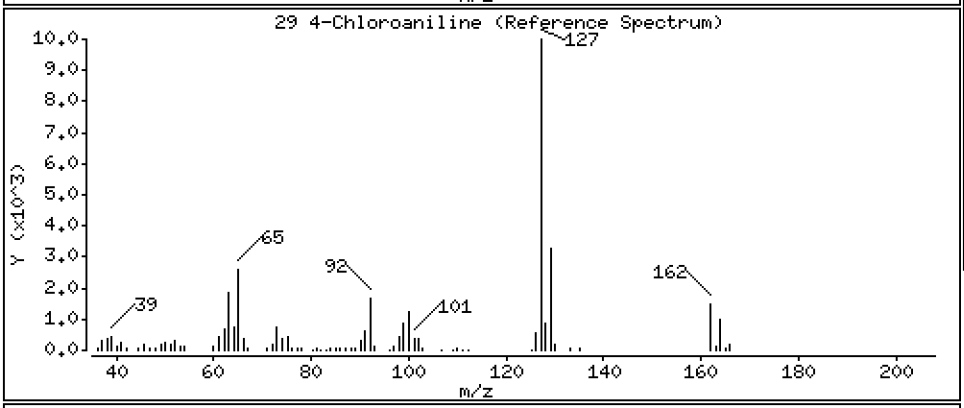
Concentration: 1.720 ug/mL

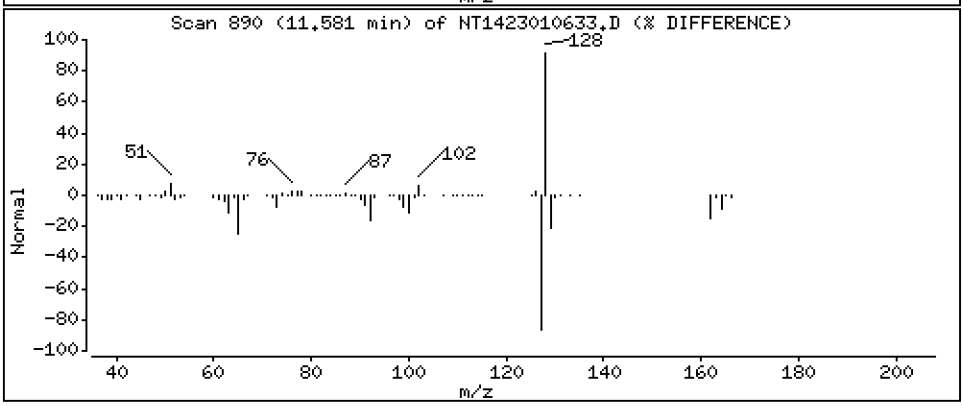












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

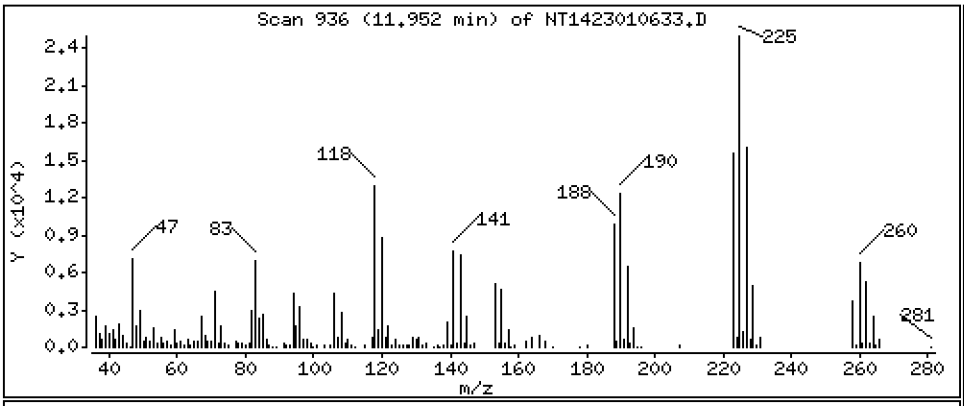
Operator: VTS

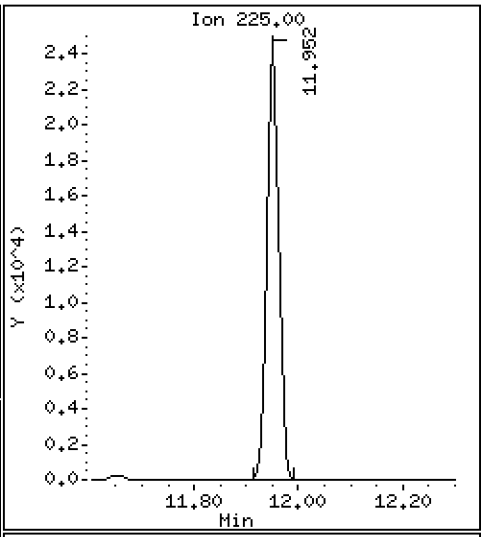
Column phase: ZB-5msi

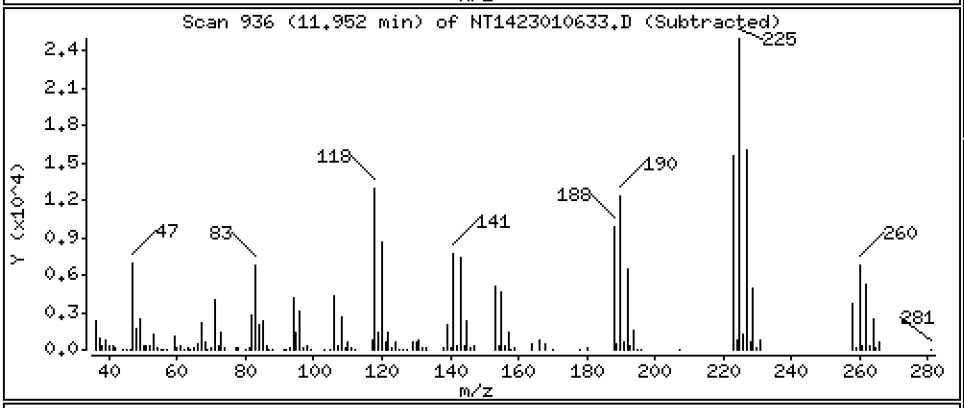
Column diameter: 0.25

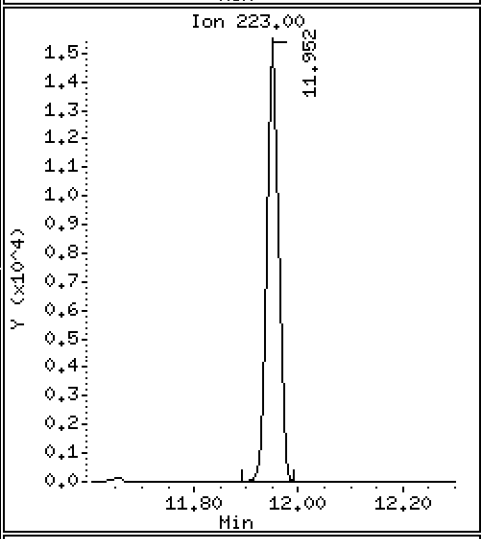
30 Hexachlorobutadiene

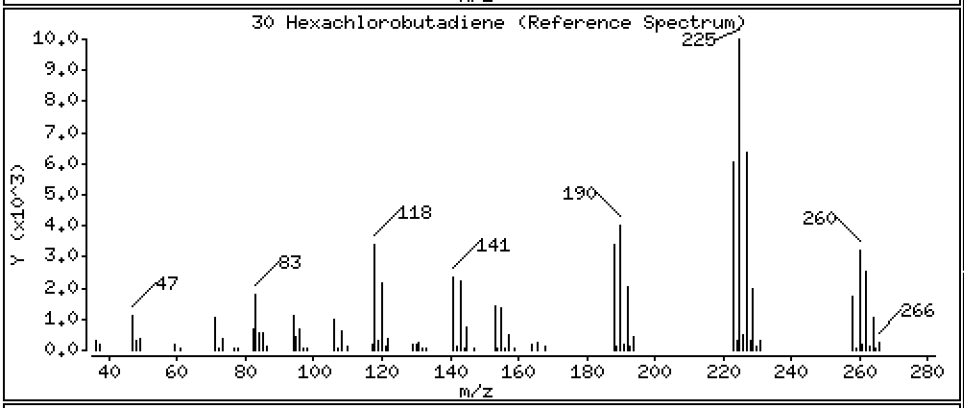
Concentration: 2.360 ug/mL

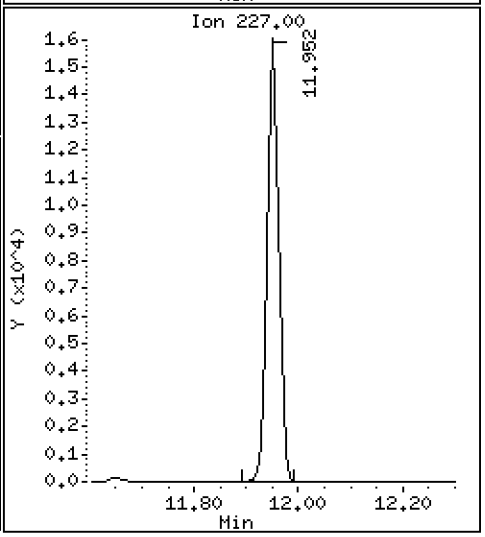


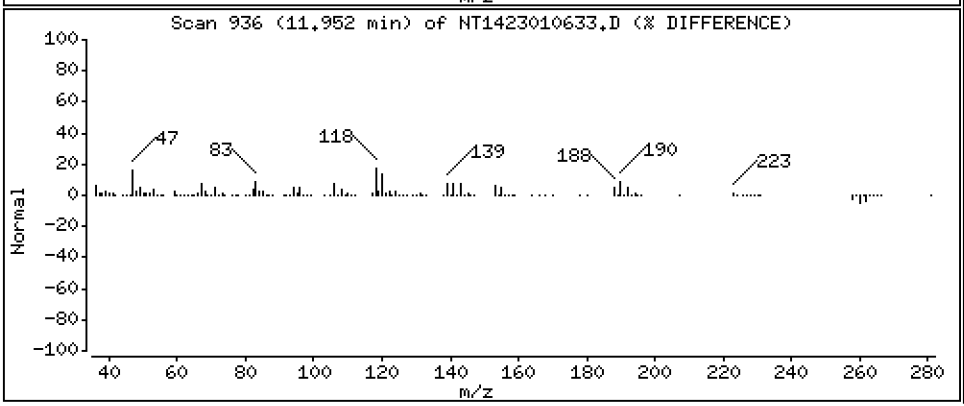












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

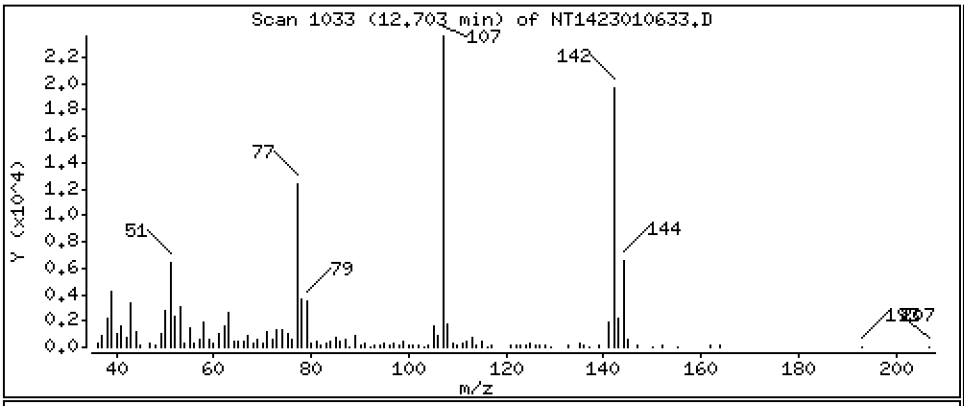
Operator: VTS

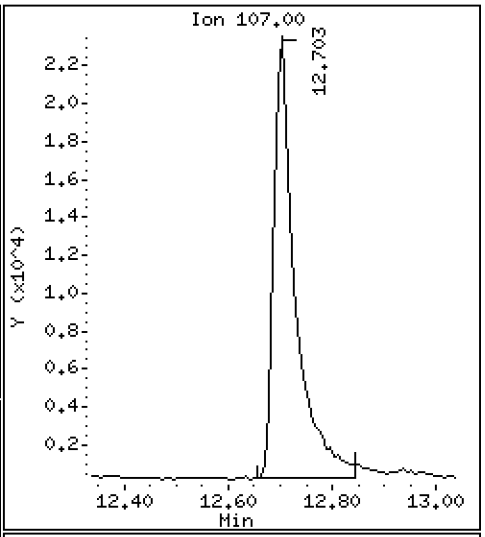
Column phase: ZB-5msi

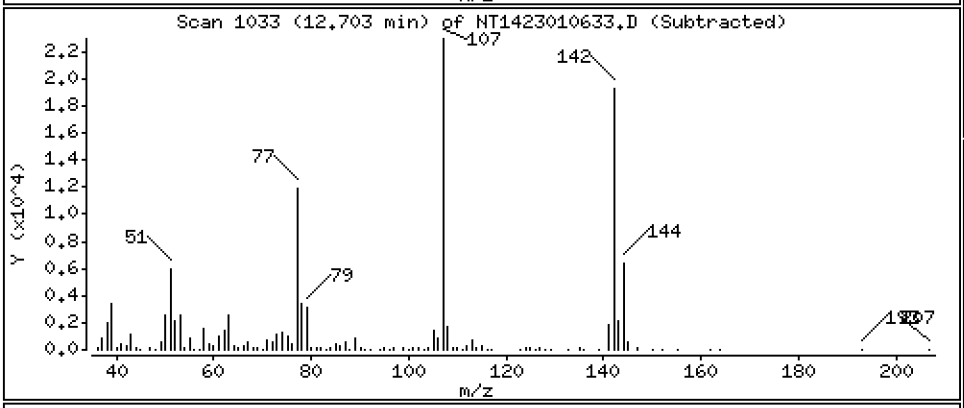
Column diameter: 0.25

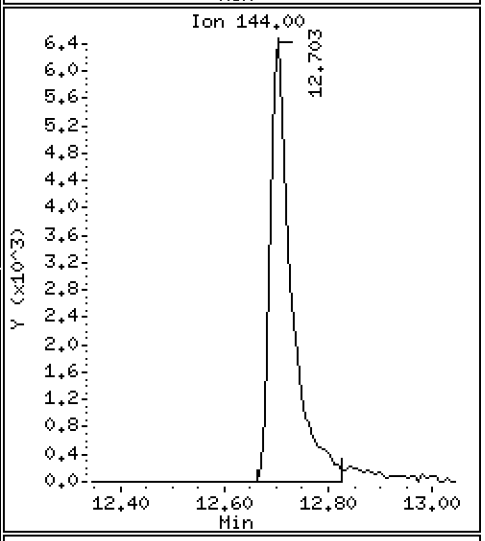
31 4-Chloro-3-methylphenol

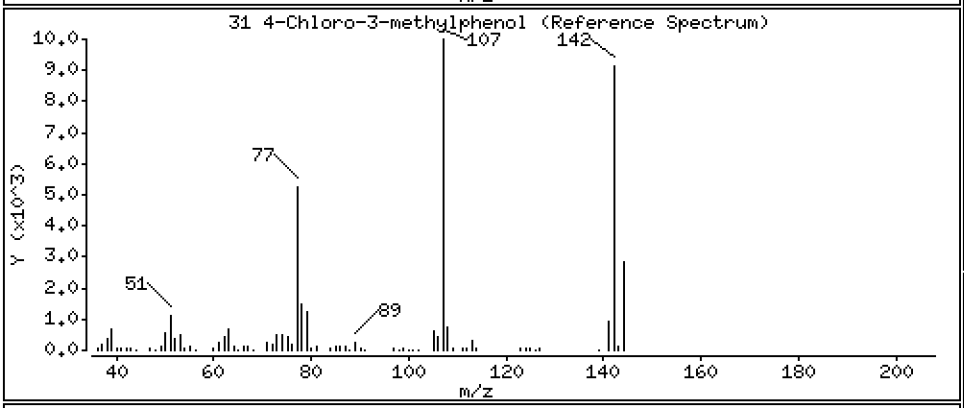
Concentration: 2.315 ug/mL

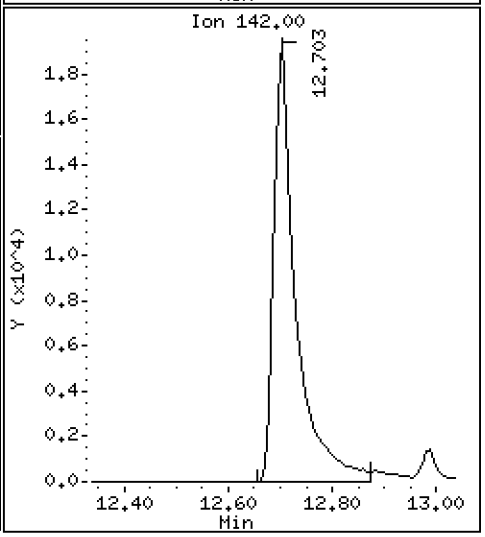


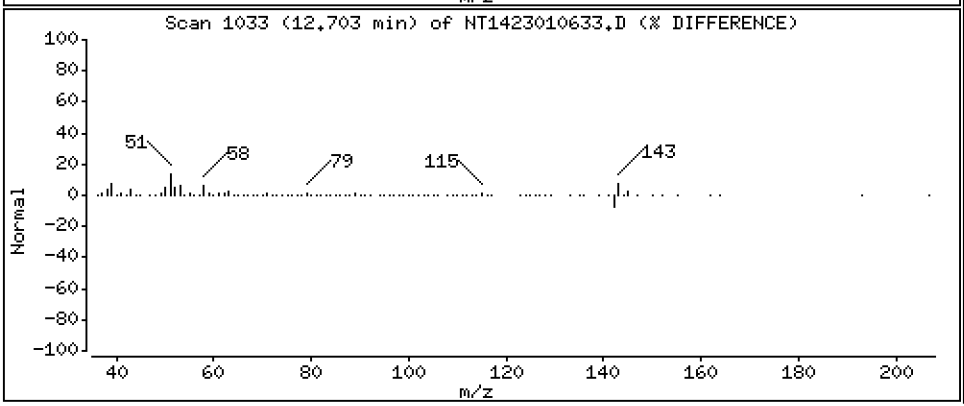












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

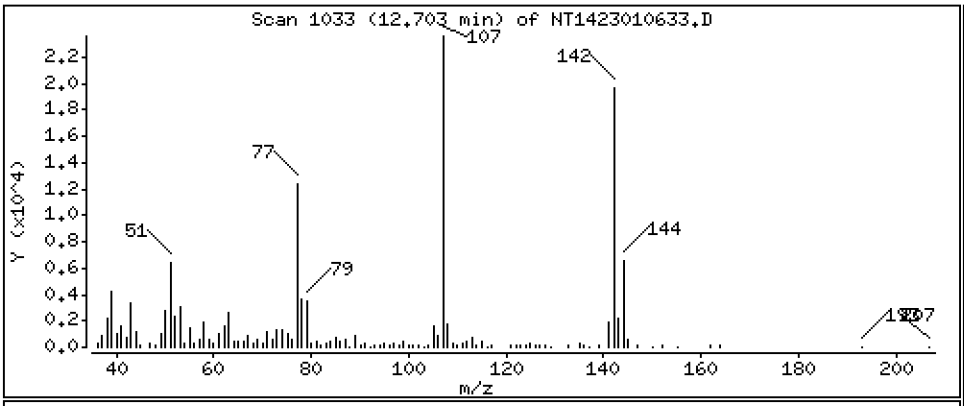
Operator: VTS

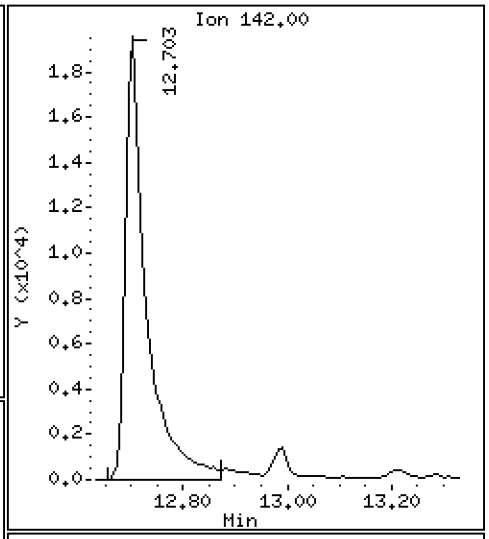
Column phase: ZB-5msi

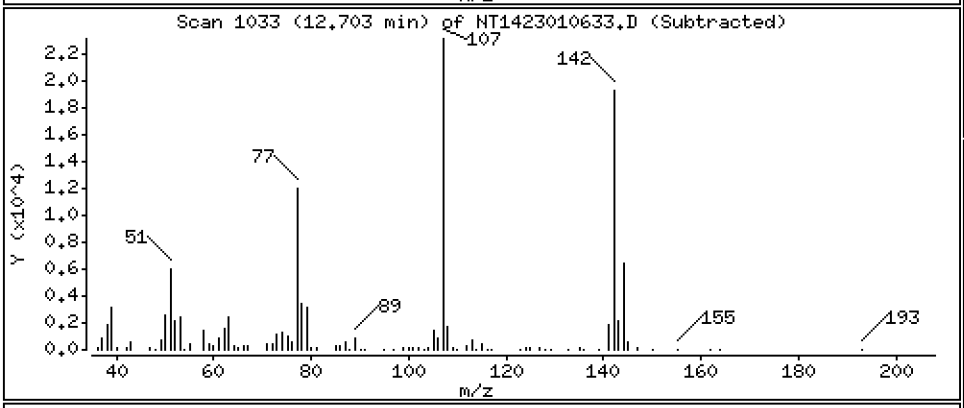
Column diameter: 0.25

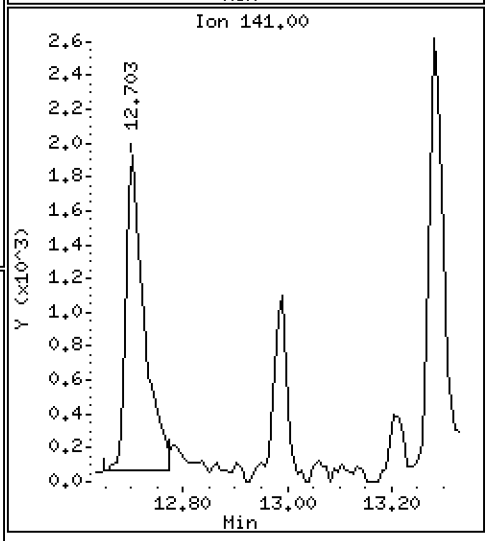
32 2-Methylnaphthalene

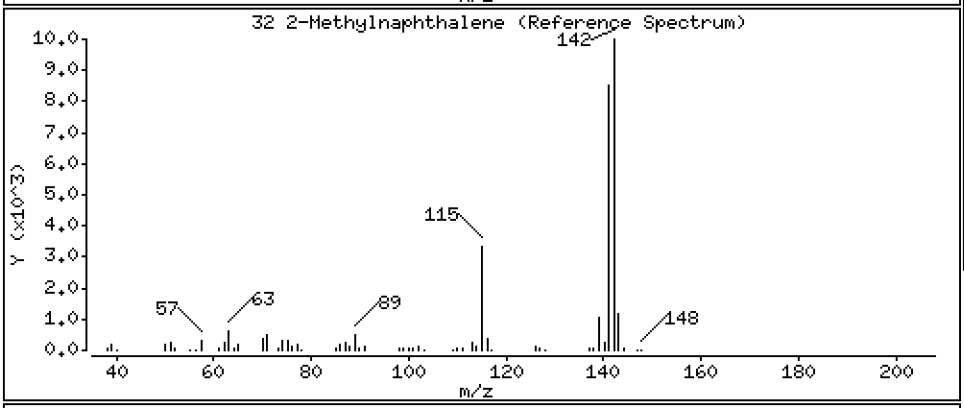
Concentration: 0.7652 ug/mL

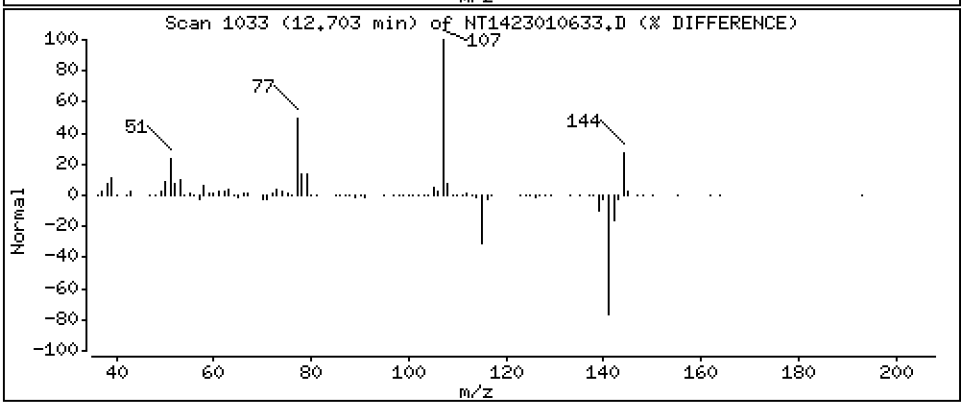












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

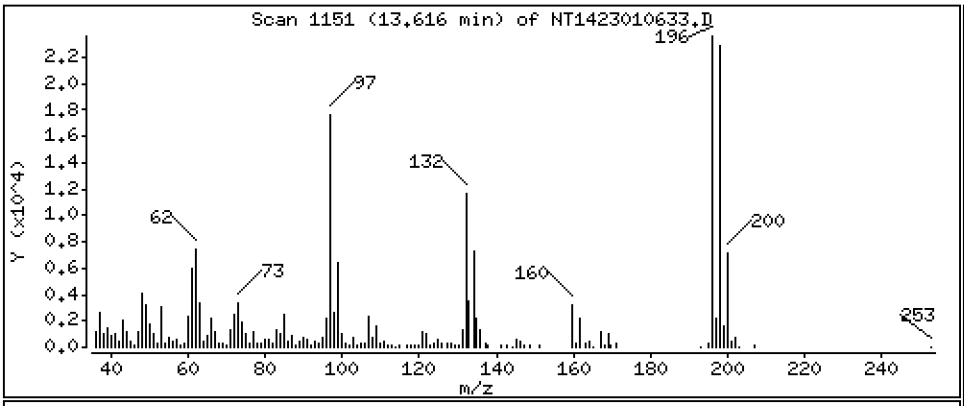
Operator: VTS

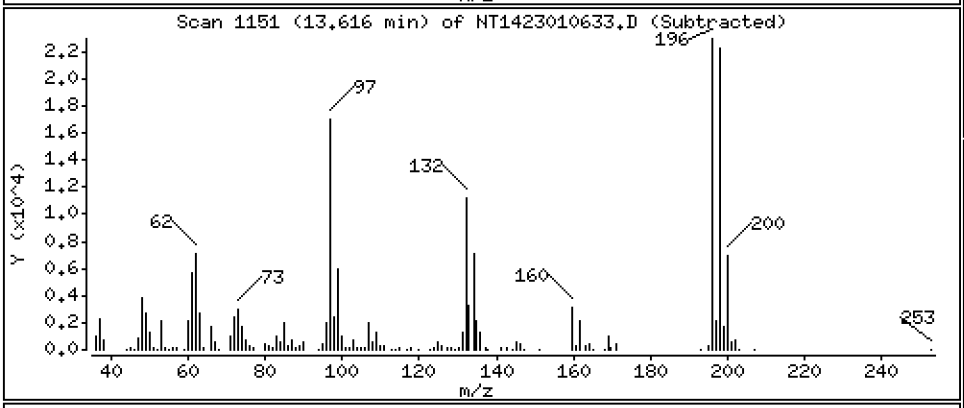
Column phase: ZB-5msi

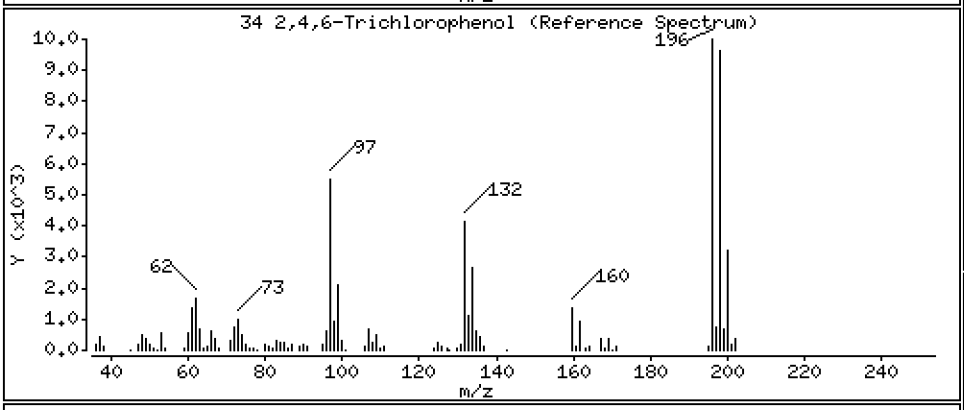
Column diameter: 0.25

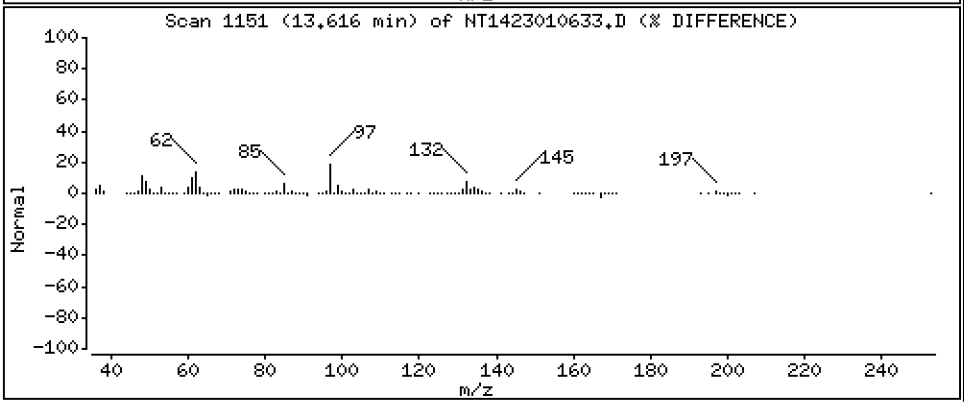
34 2,4,6-Trichlorophenol

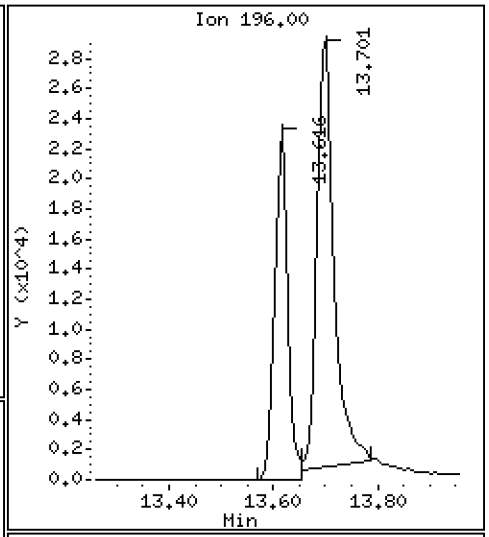
Concentration: 2.320 ug/mL

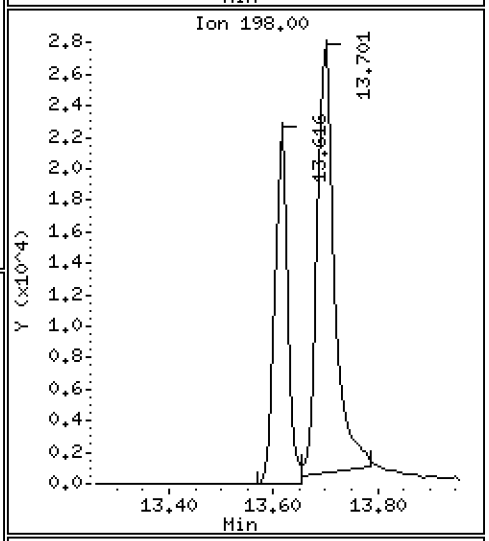


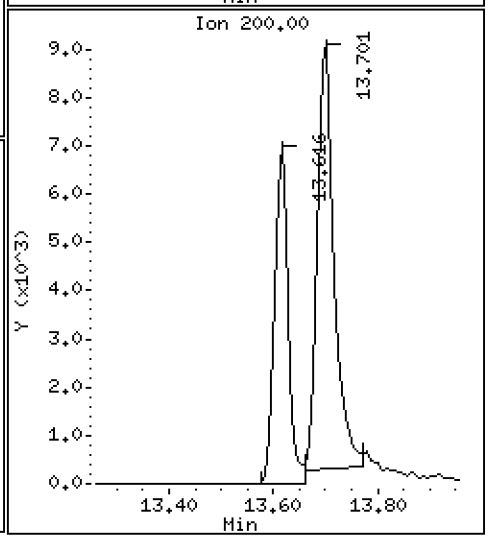












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

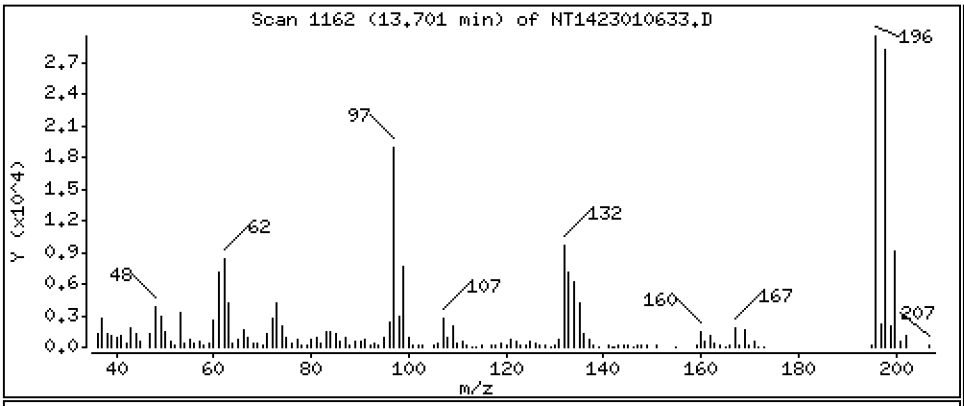
Operator: VTS

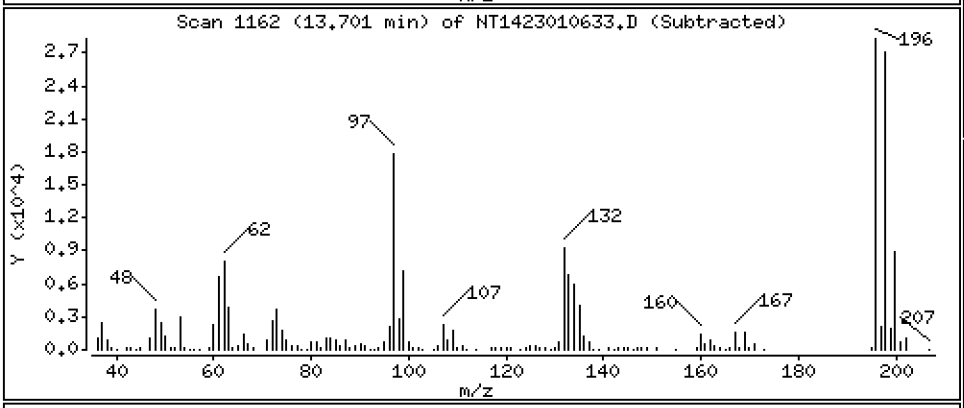
Column phase: ZB-5msi

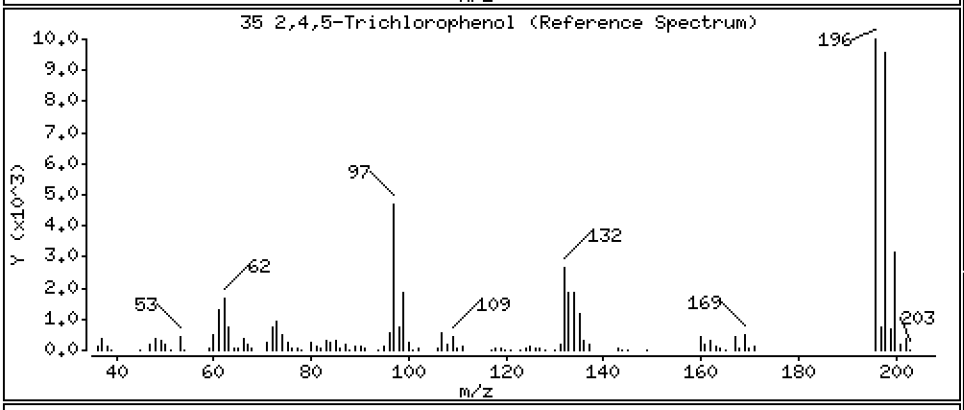
Column diameter: 0.25

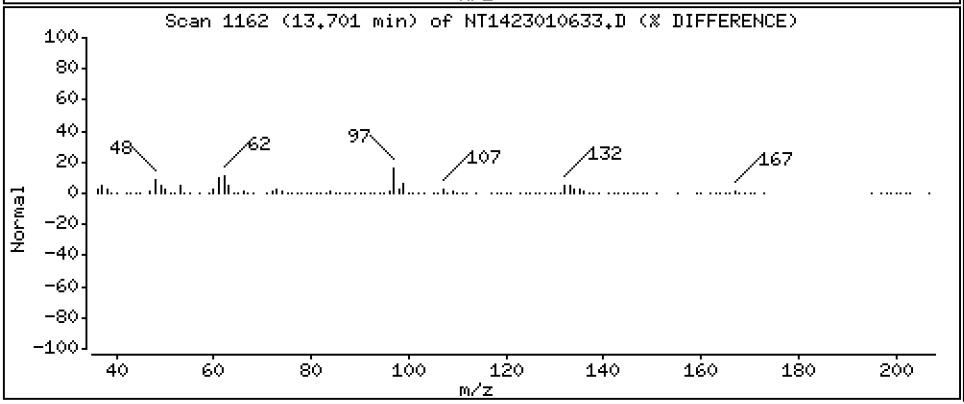
35 2,4,5-Trichlorophenol

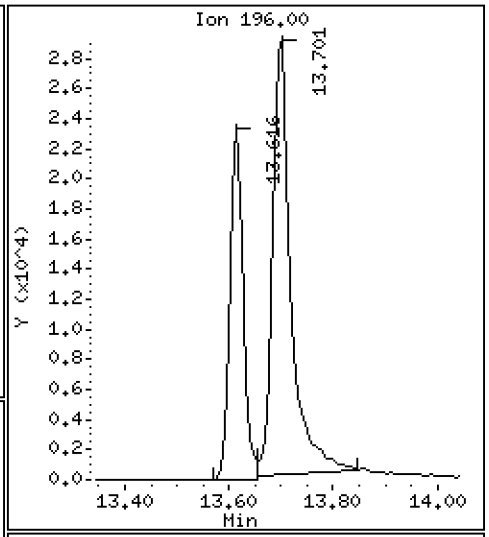
Concentration: 3.585 ug/mL

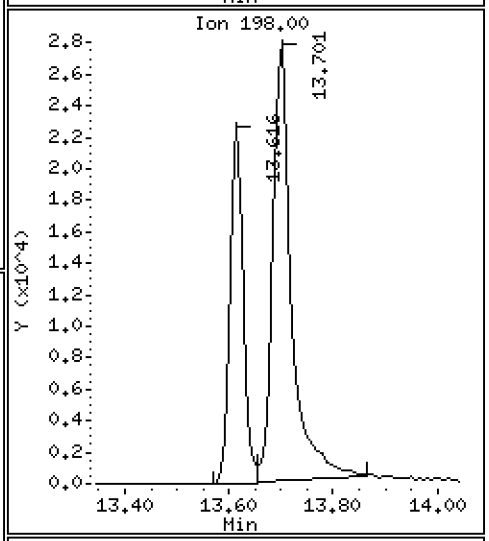


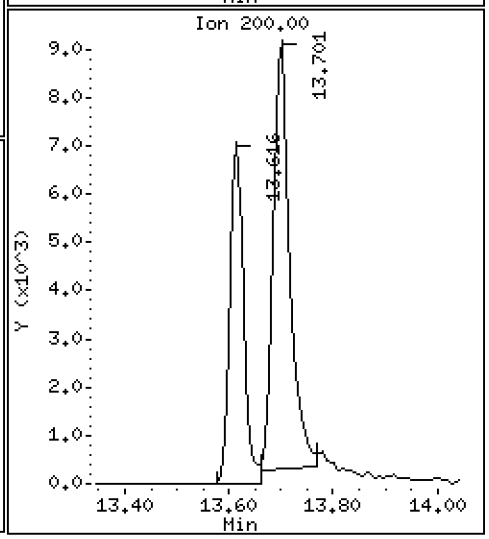












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

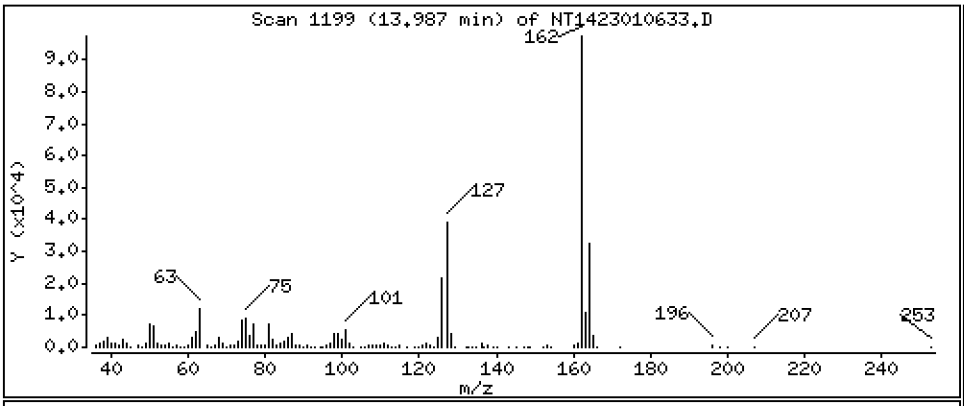
Operator: VTS

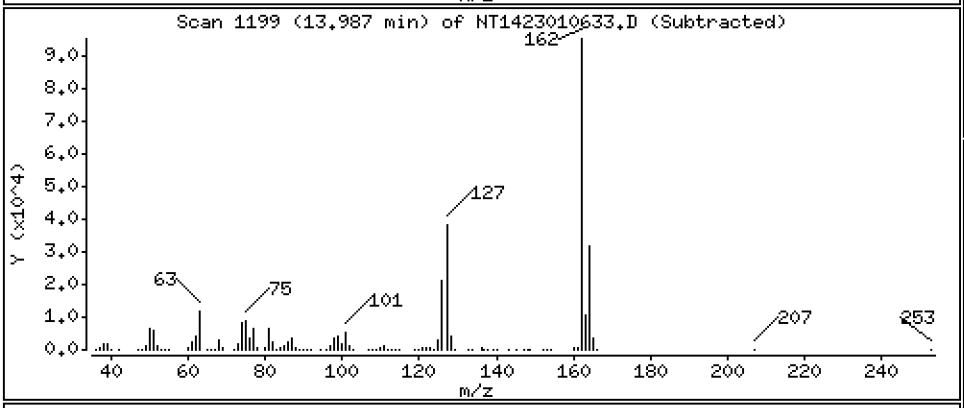
Column phase: ZB-5msi

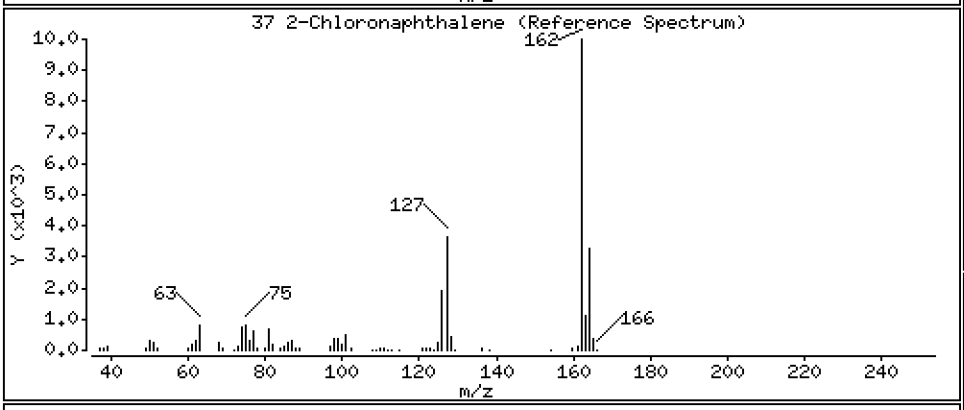
Column diameter: 0.25

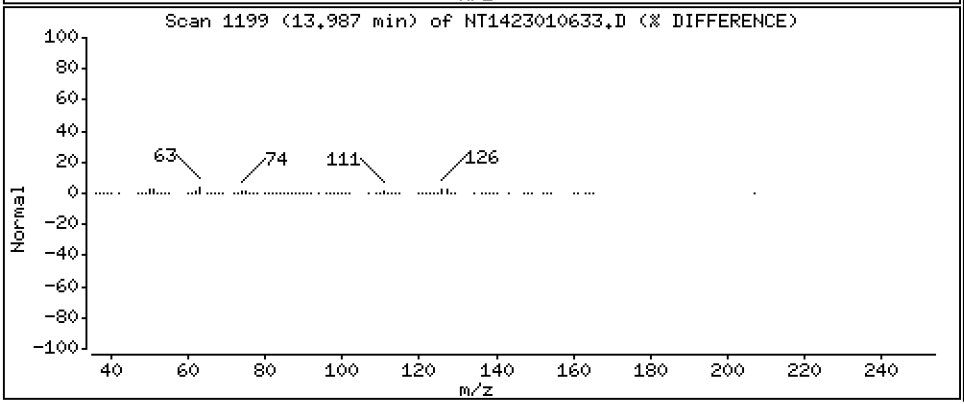
37 2-Chloronaphthalene

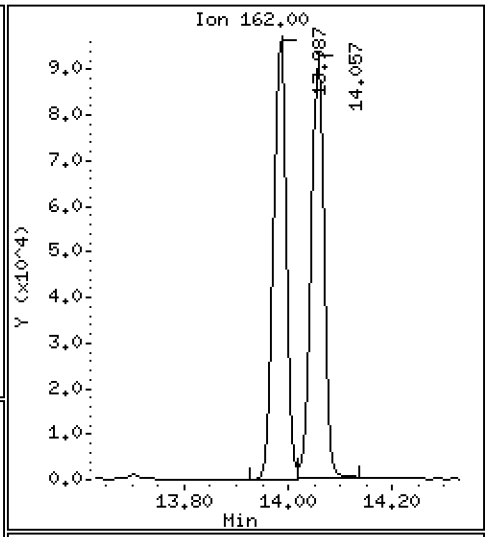
Concentration: 2.767 ug/mL

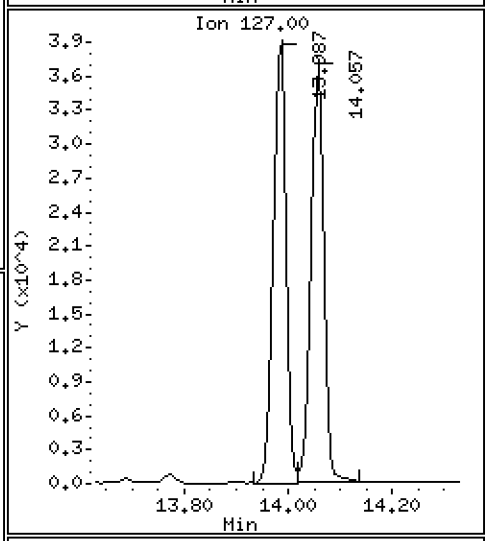


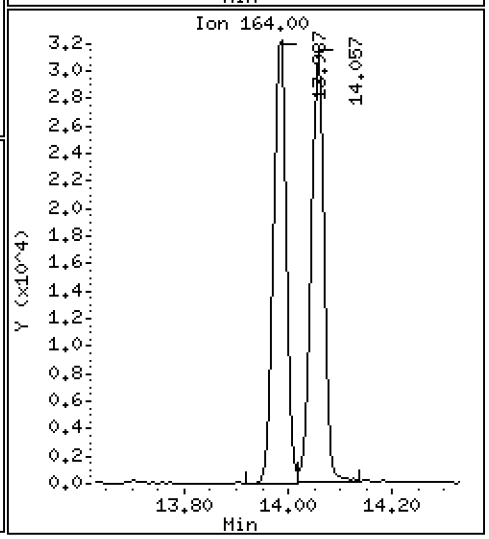












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

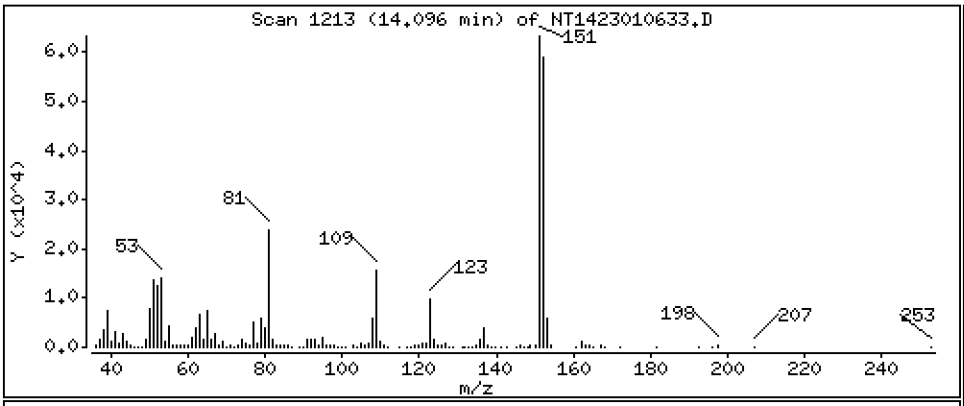
Operator: VTS

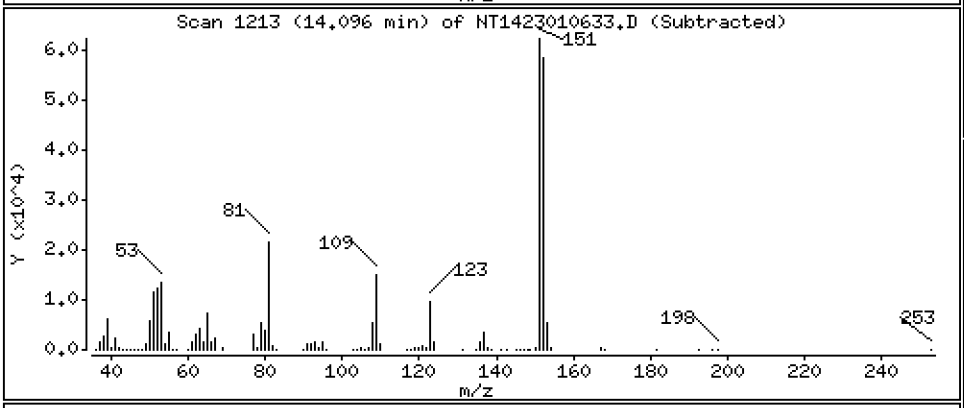
Column phase: ZB-5msi

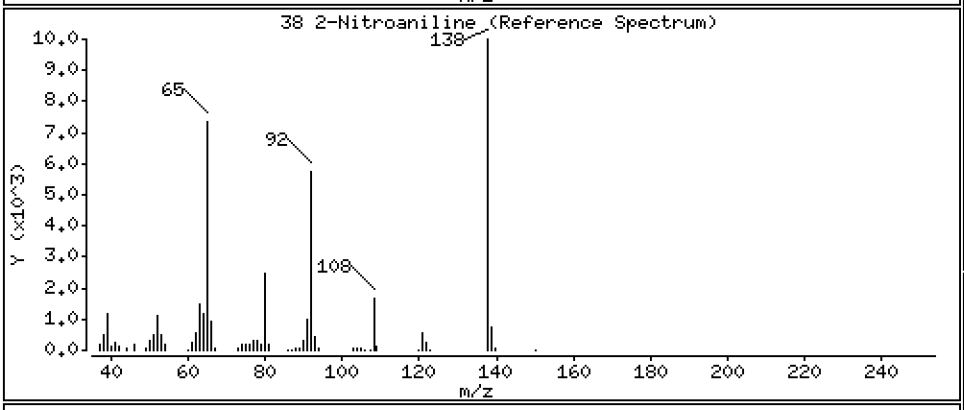
Column diameter: 0.25

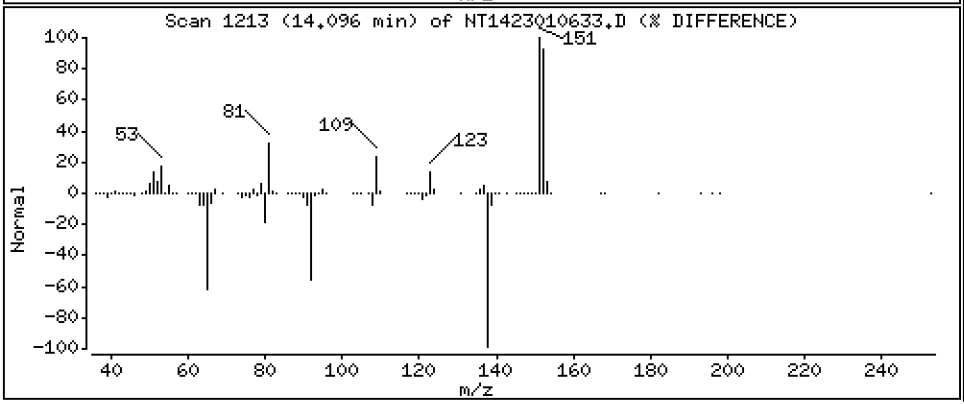
38 2-Nitroaniline

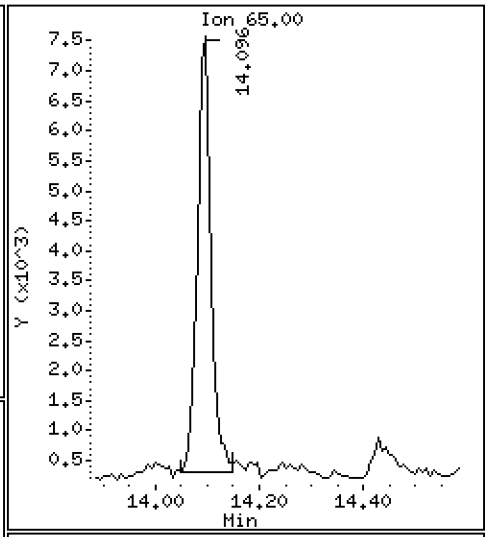
Concentration: 0.8764 ug/mL

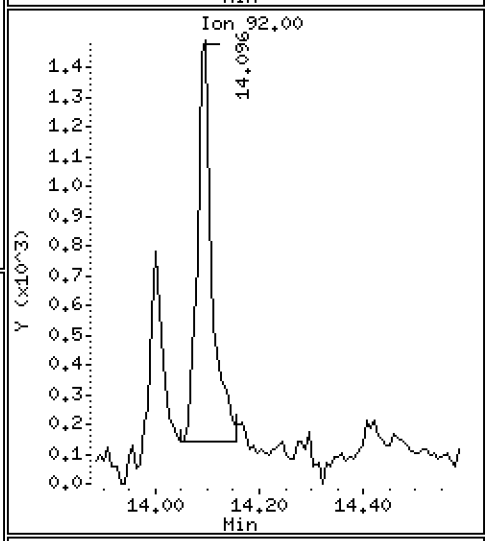


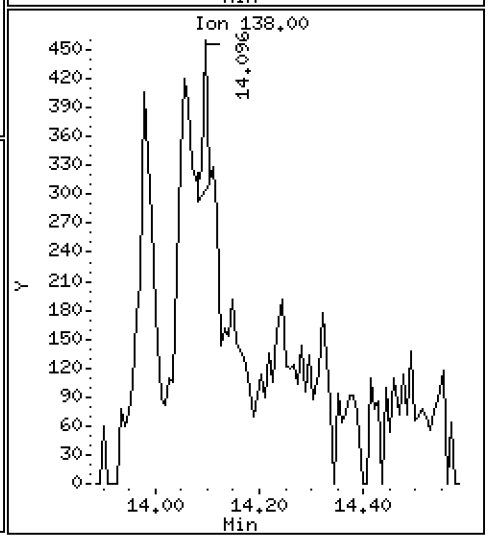












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

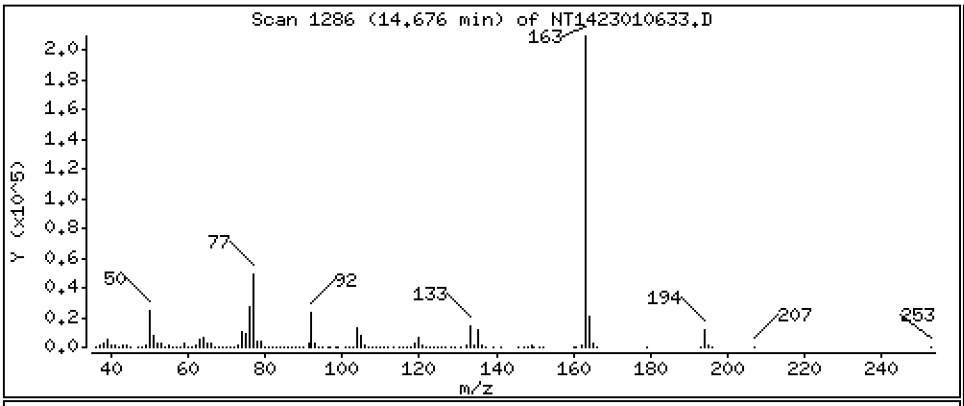
Operator: VTS

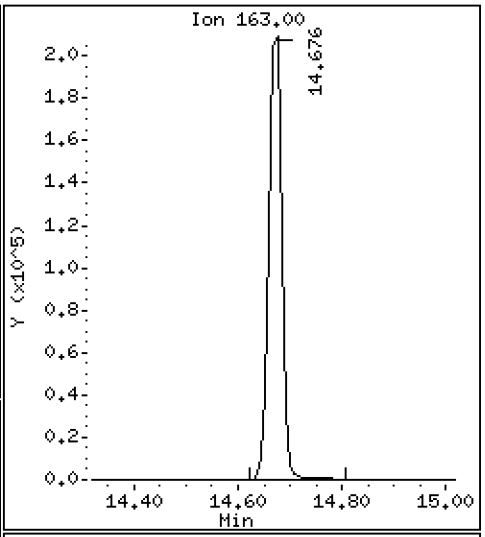
Column phase: ZB-5msi

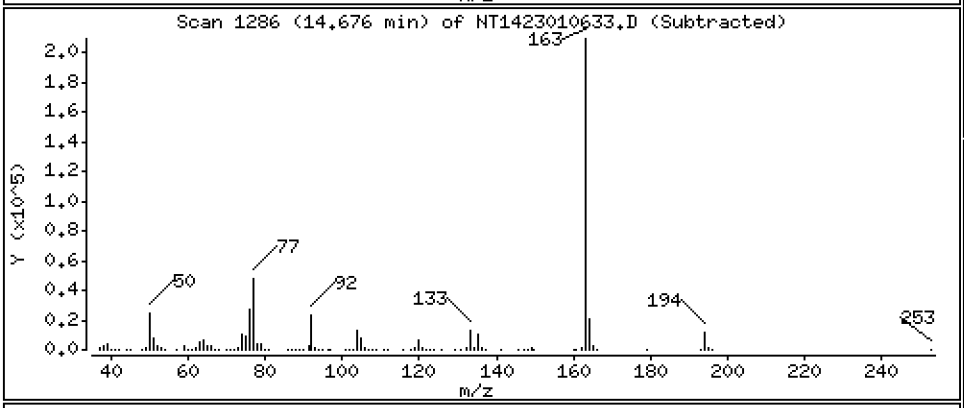
Column diameter: 0.25

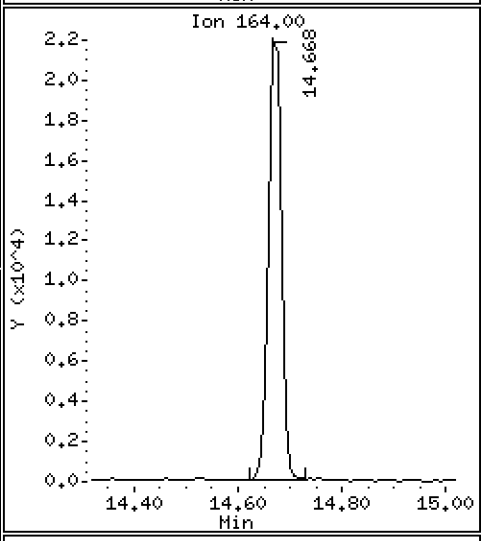
39 Dimethylphthalate

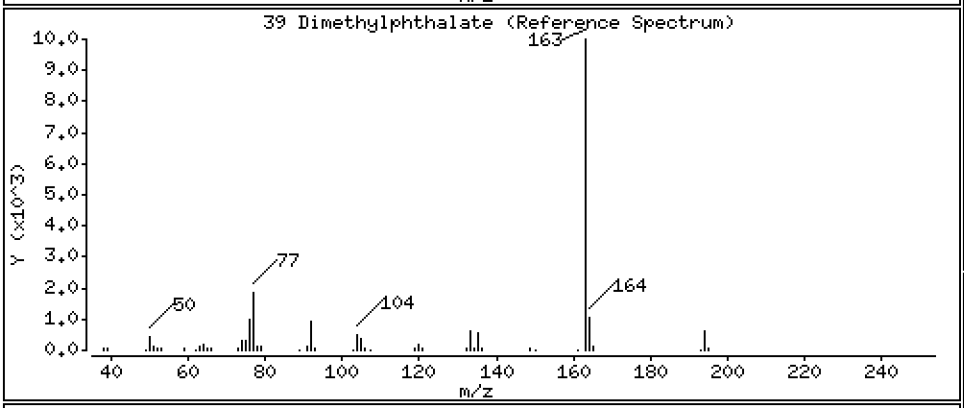
Concentration: 6.050 ug/mL

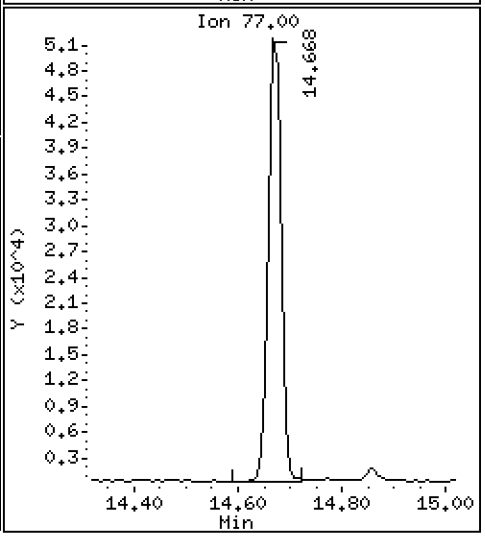


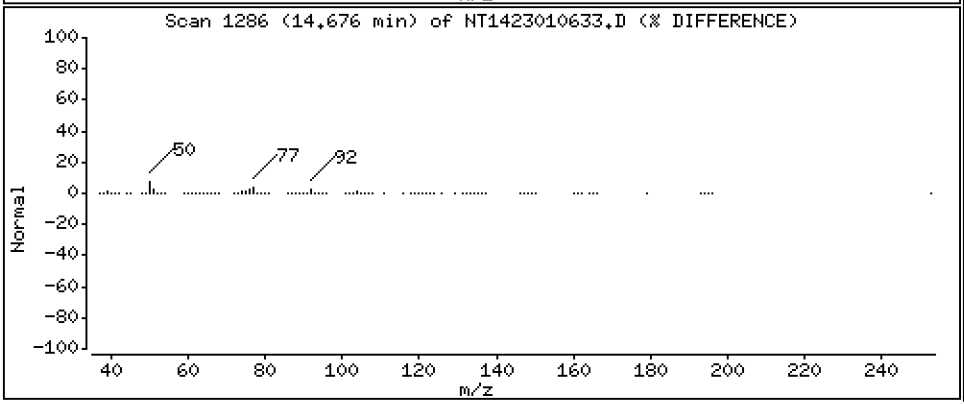












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

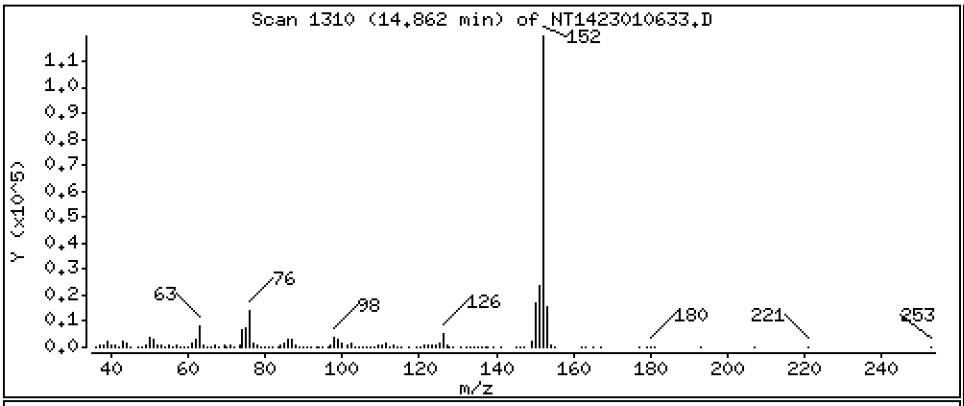
Operator: VTS

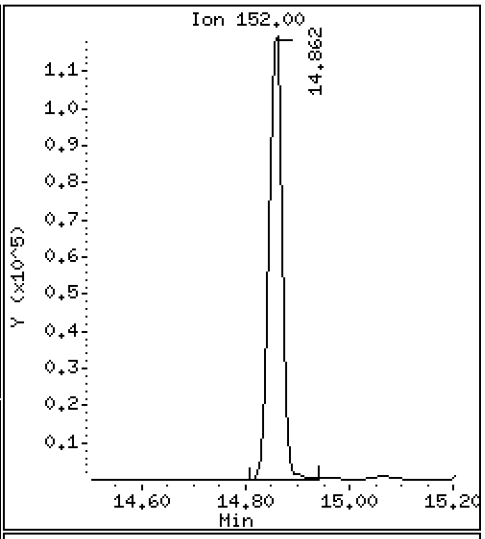
Column phase: ZB-5msi

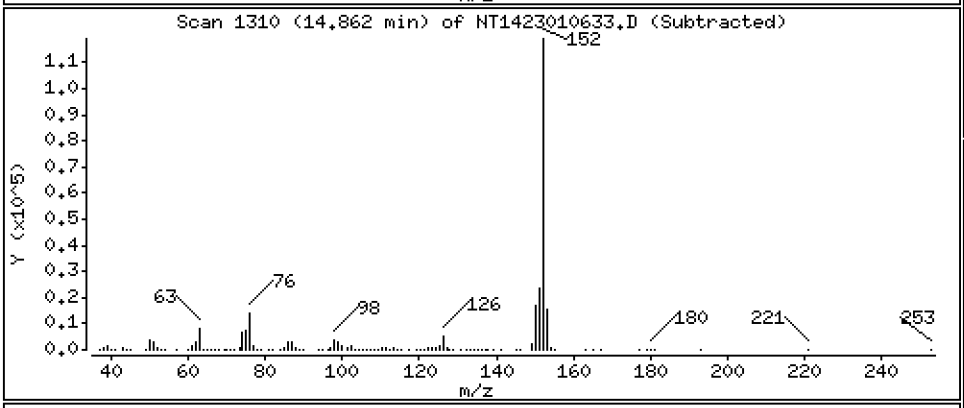
Column diameter: 0.25

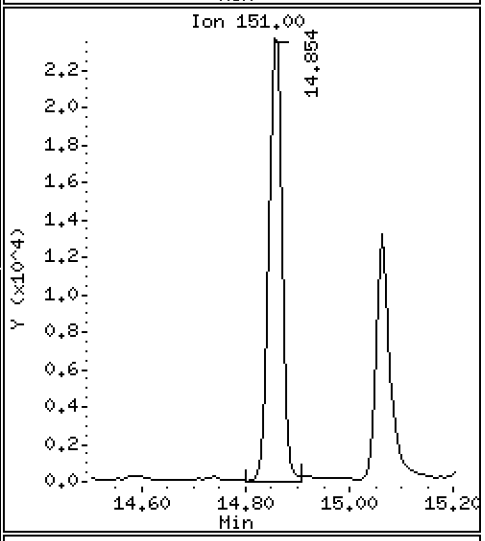
40 Acenaphthylene

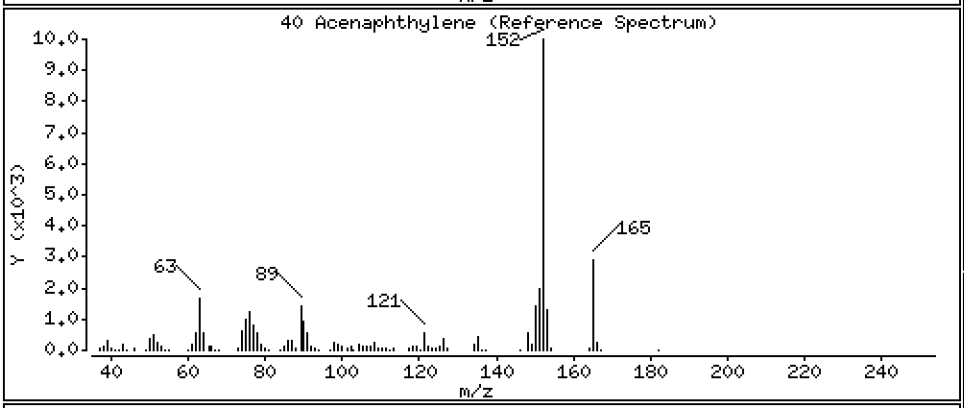
Concentration: 2.290 ug/mL

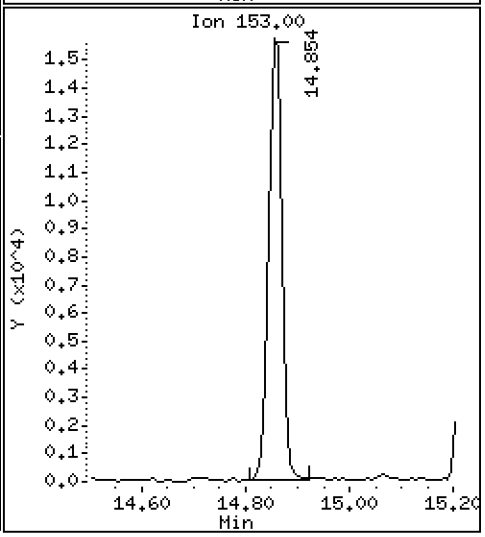


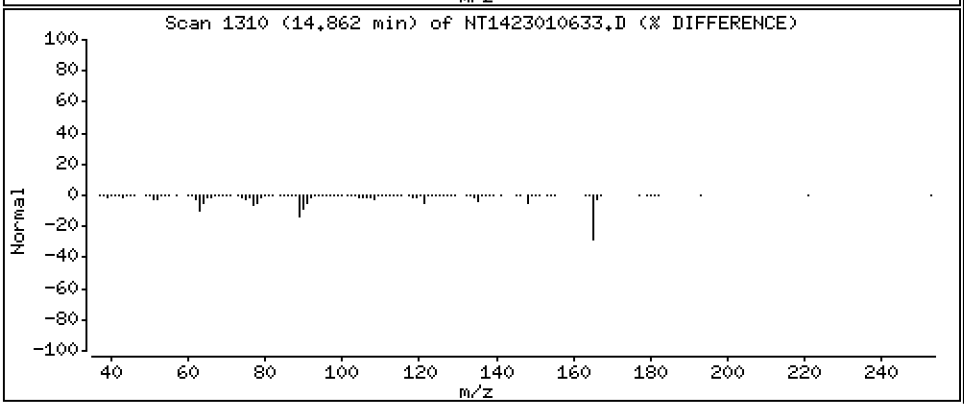












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

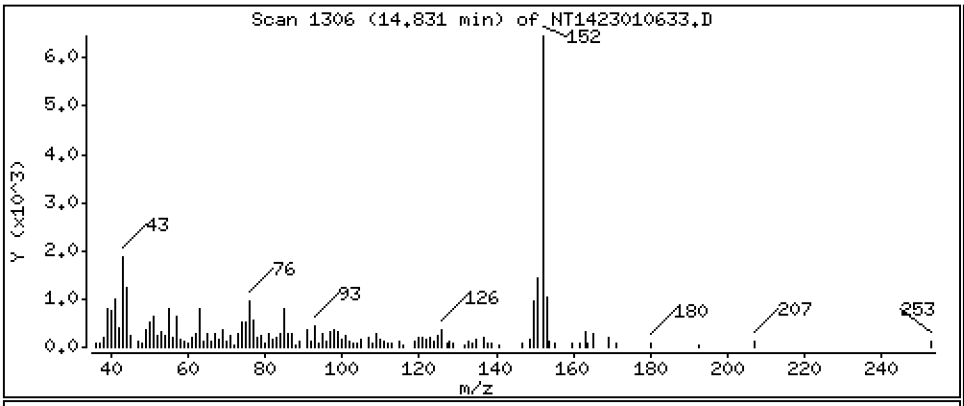
Operator: VTS

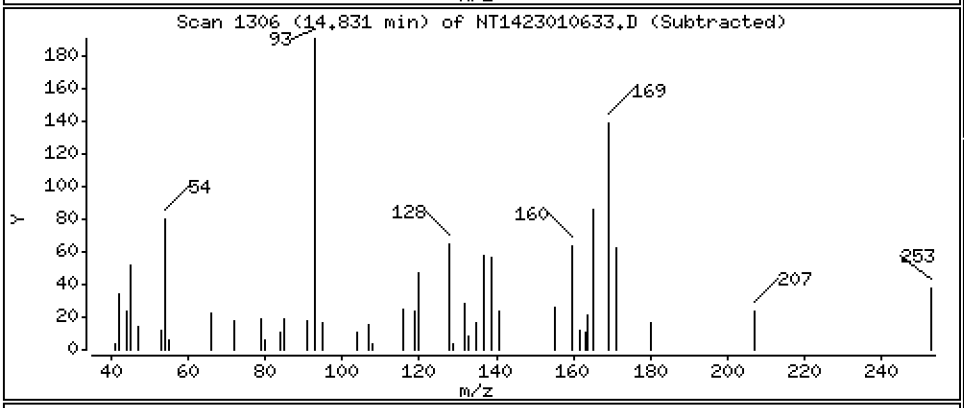
Column phase: ZB-5msi

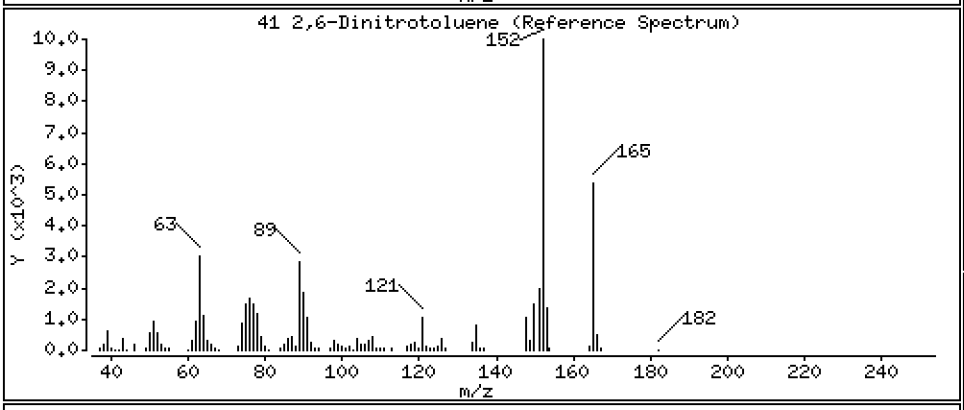
Column diameter: 0.25

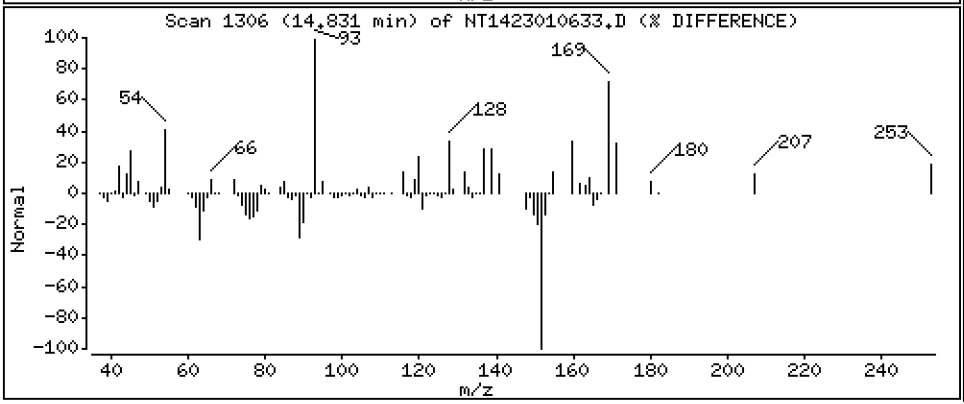
41 2,6-Dinitrotoluene

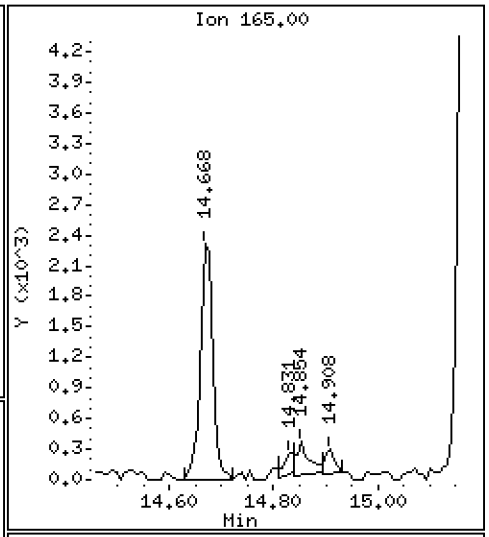
Concentration: 0.02444 ug/mL

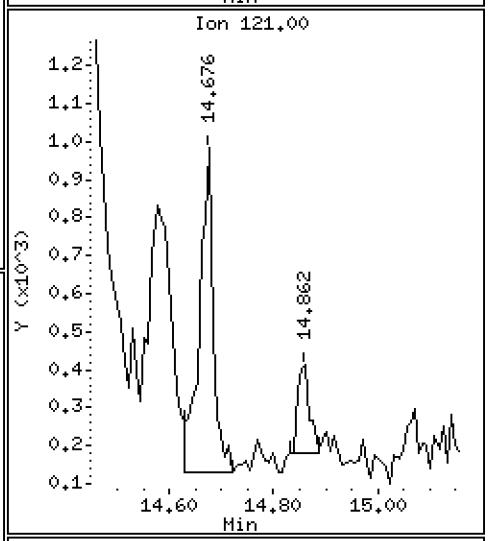


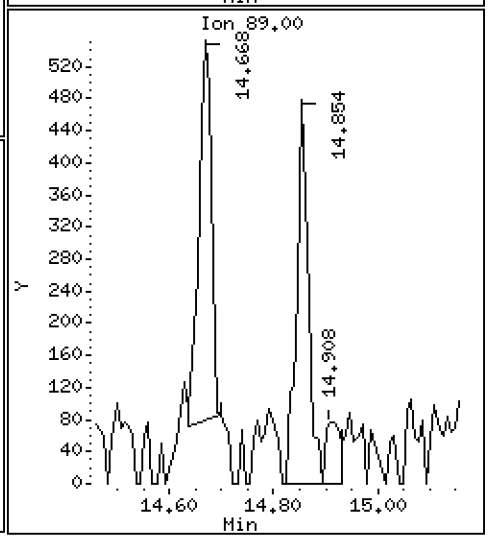












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

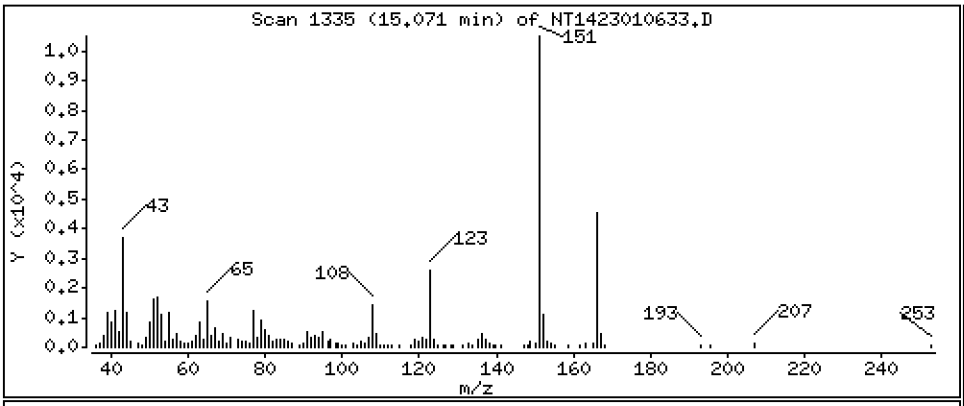
Operator: VTS

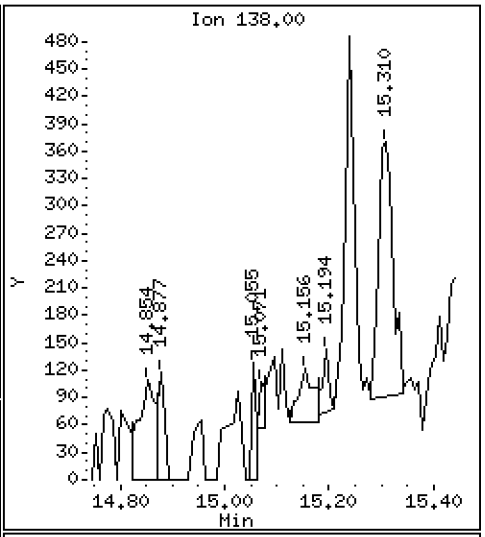
Column phase: ZB-5msi

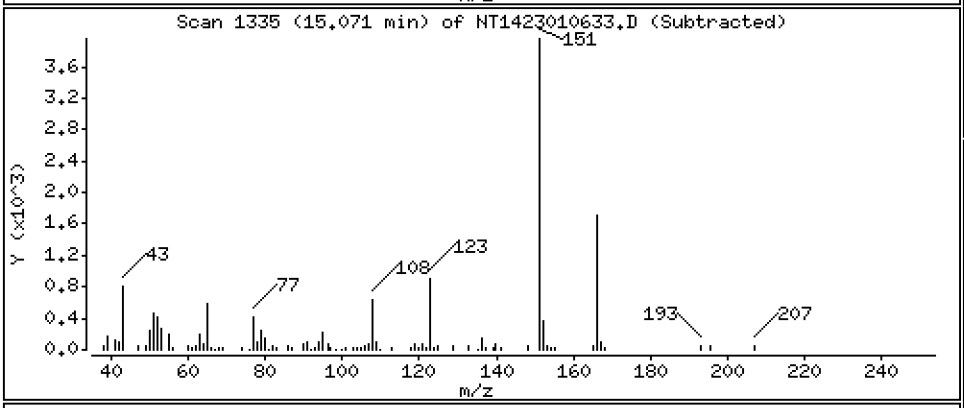
Column diameter: 0.25

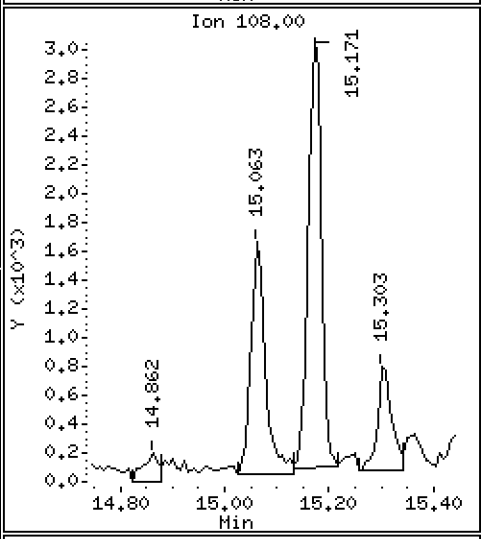
43 3-Nitroaniline

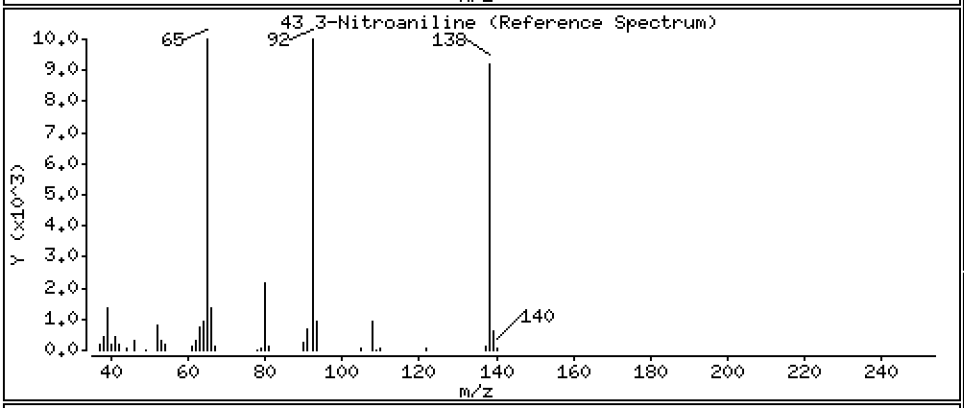
Concentration: 0.002754 ug/mL

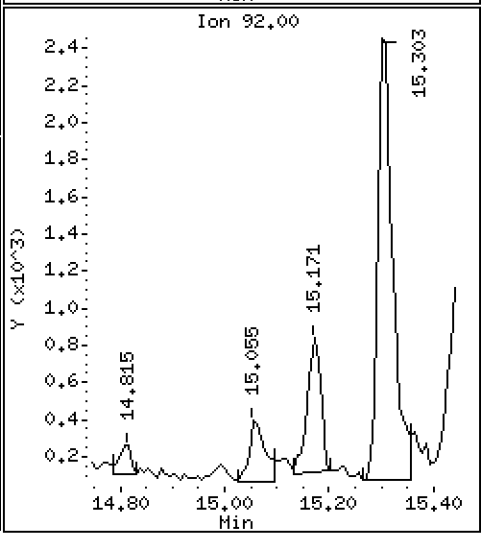


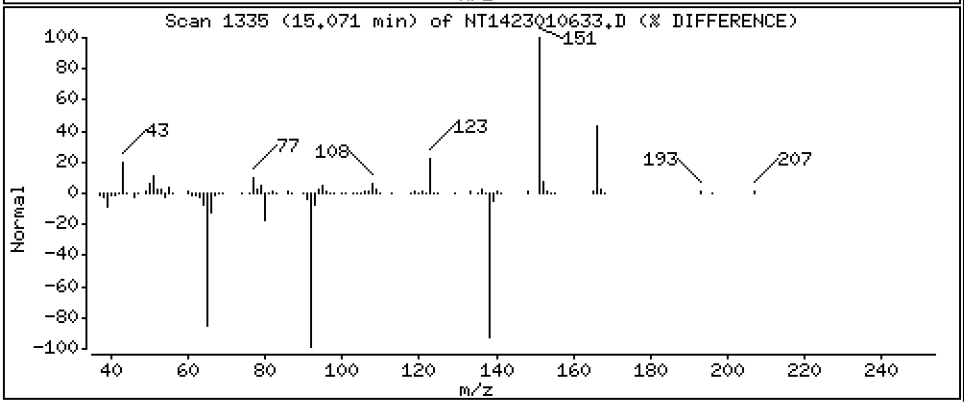












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

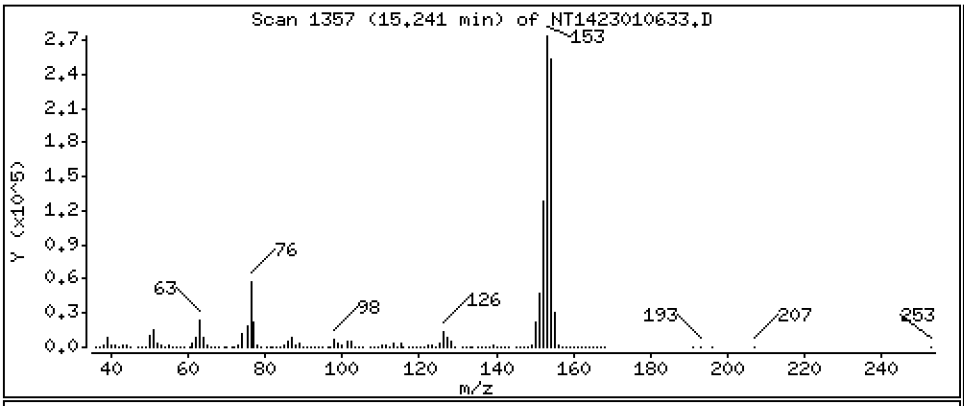
Operator: VTS

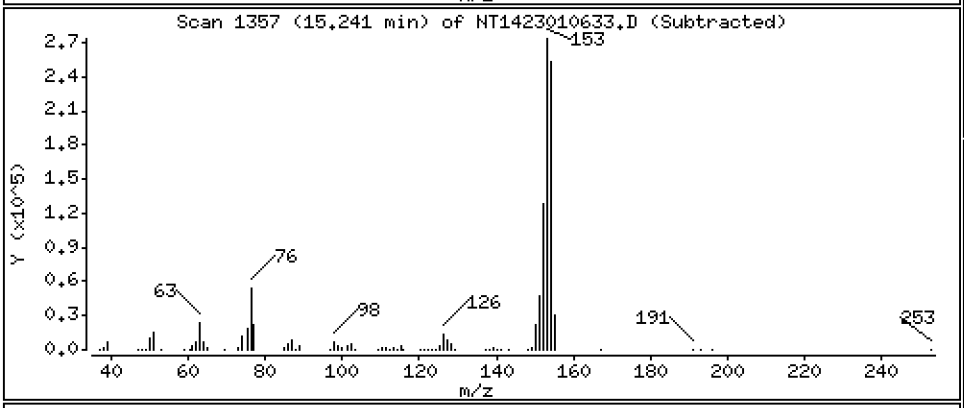
Column phase: ZB-5msi

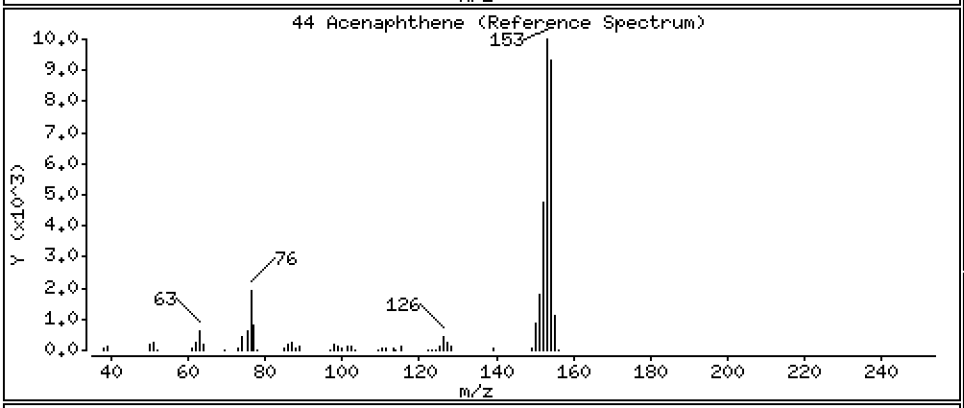
Column diameter: 0.25

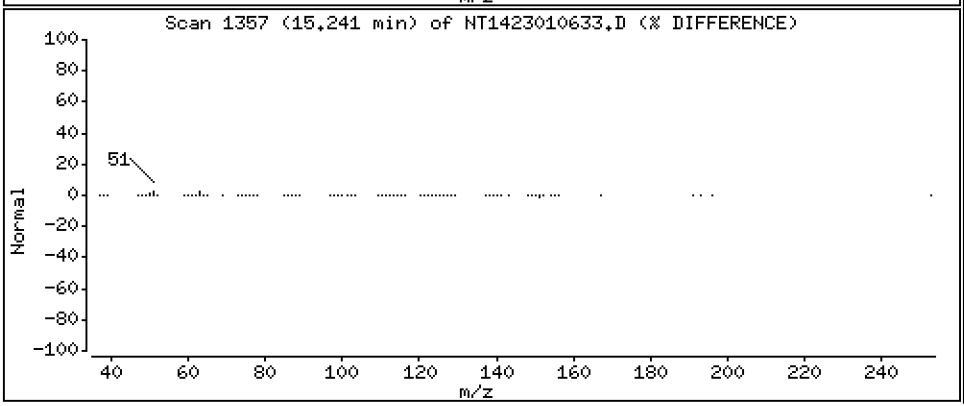
44 Acenaphthene

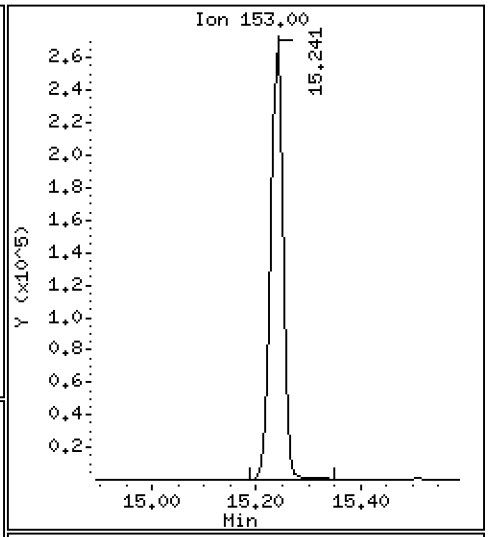
Concentration: 7.701 ug/mL

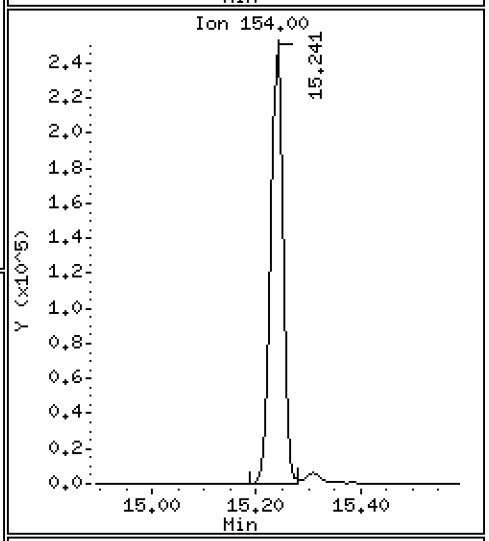


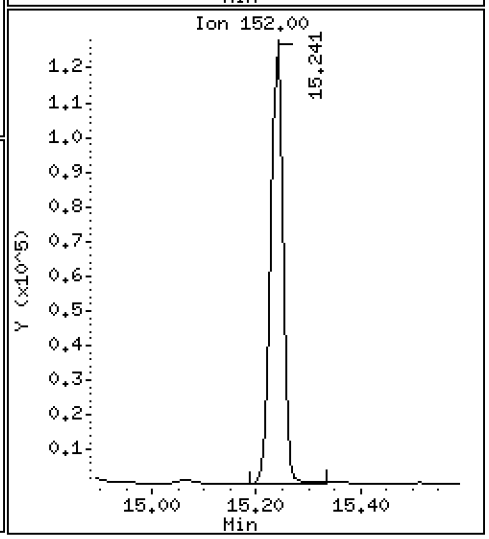












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

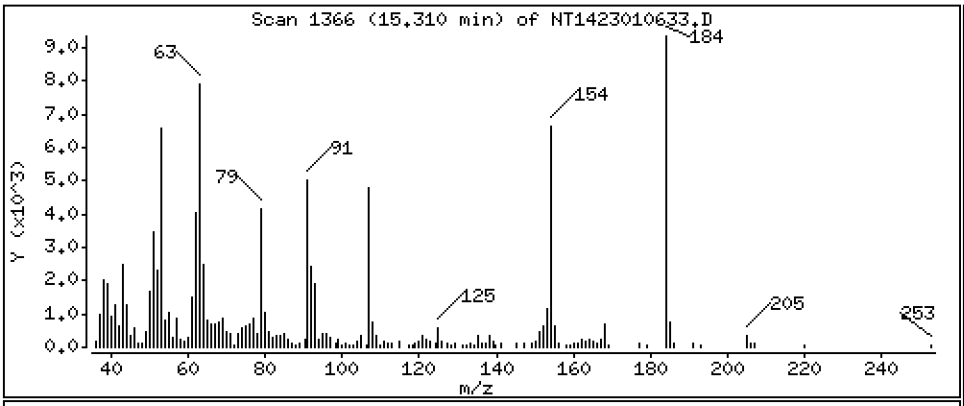
Operator: VTS

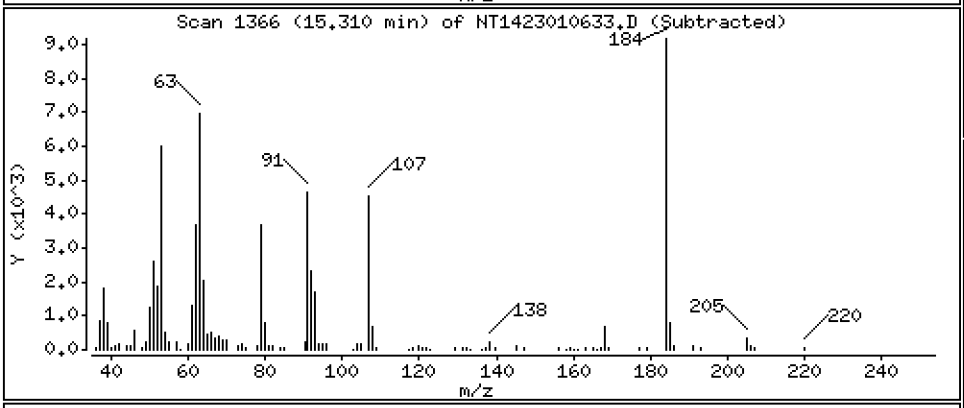
Column phase: ZB-5msi

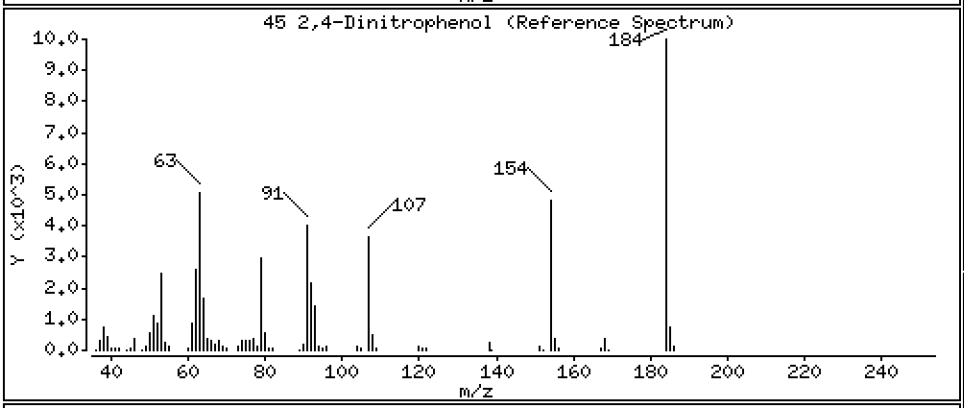
Column diameter: 0.25

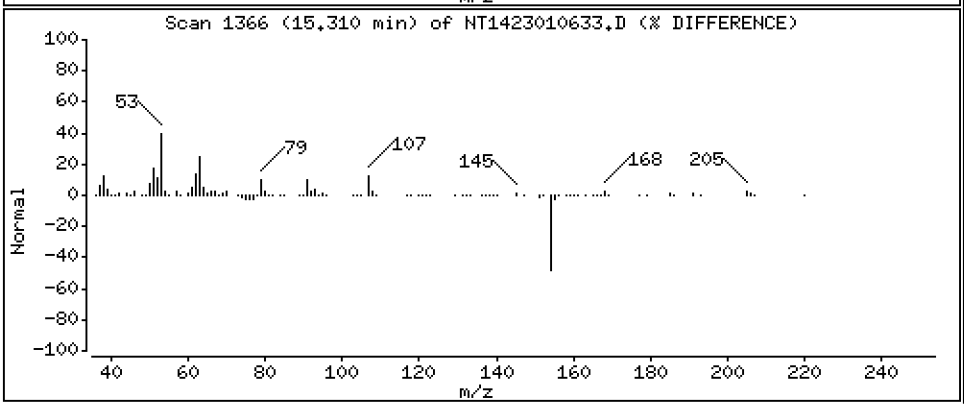
45 2,4-Dinitrophenol

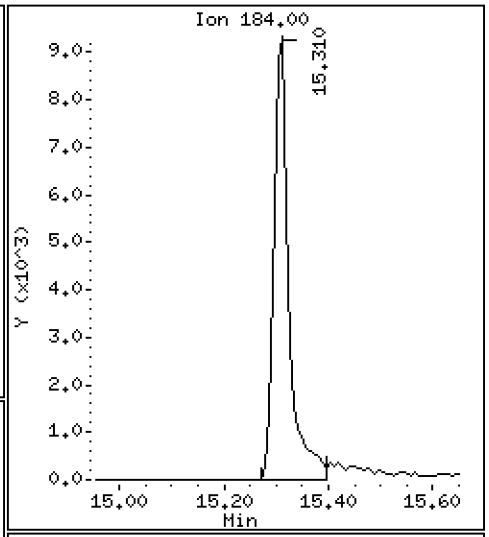
Concentration: 1.651 ug/mL

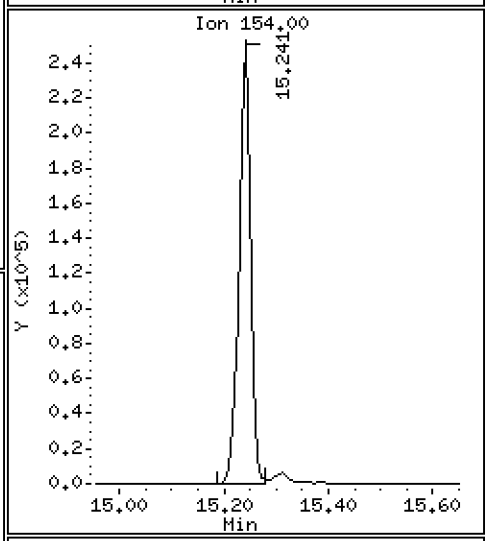


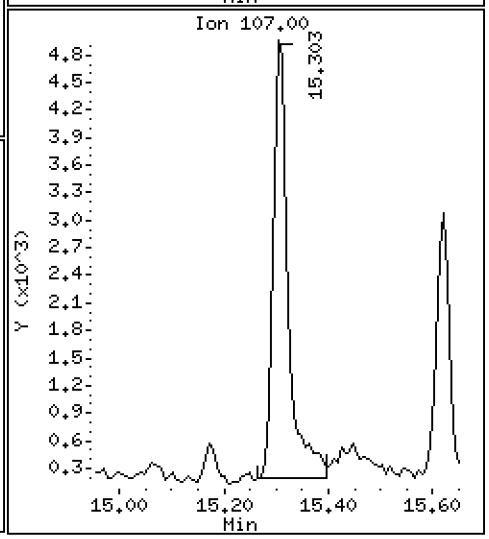












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

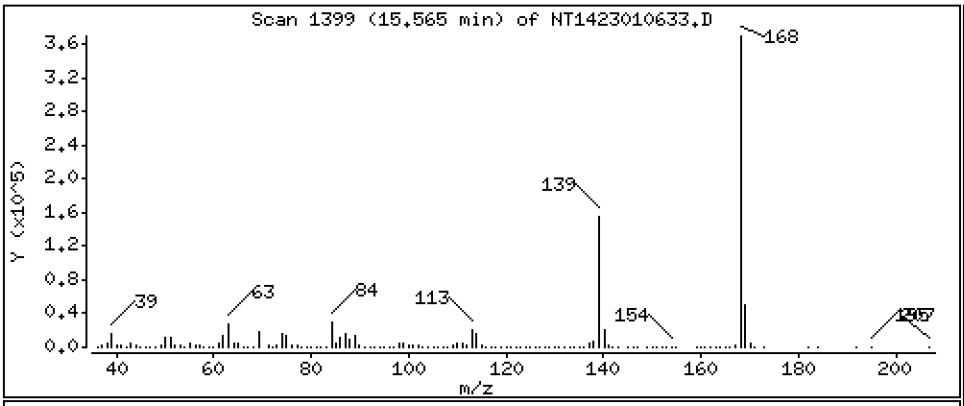
Operator: VTS

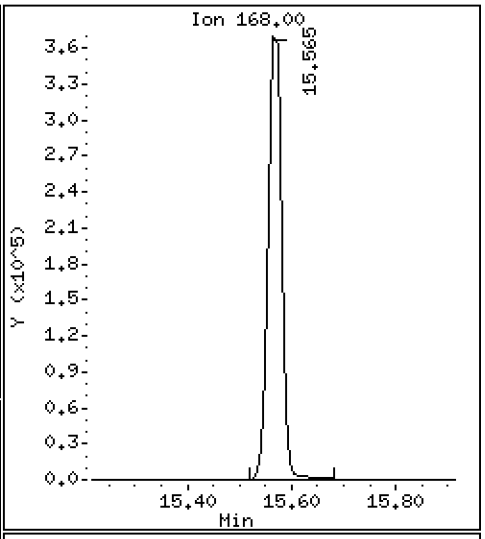
Column phase: ZB-5msi

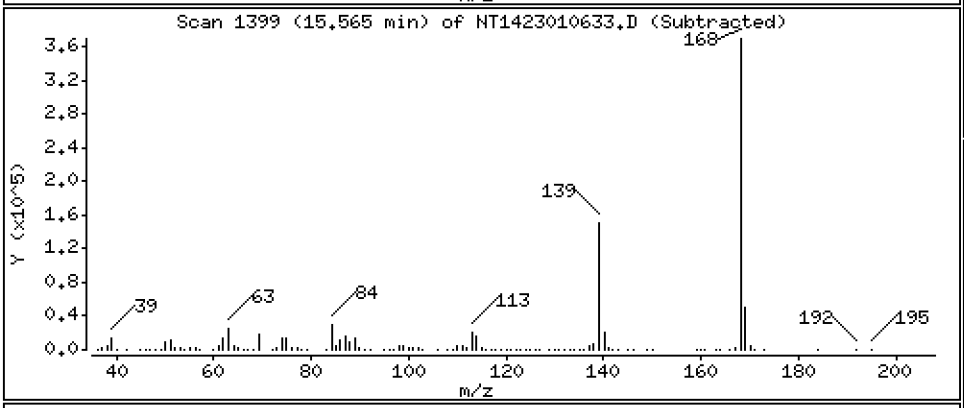
Column diameter: 0.25

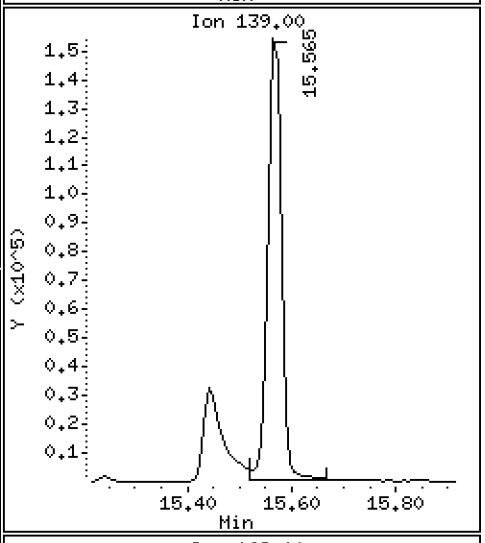
46 Dibenzofuran

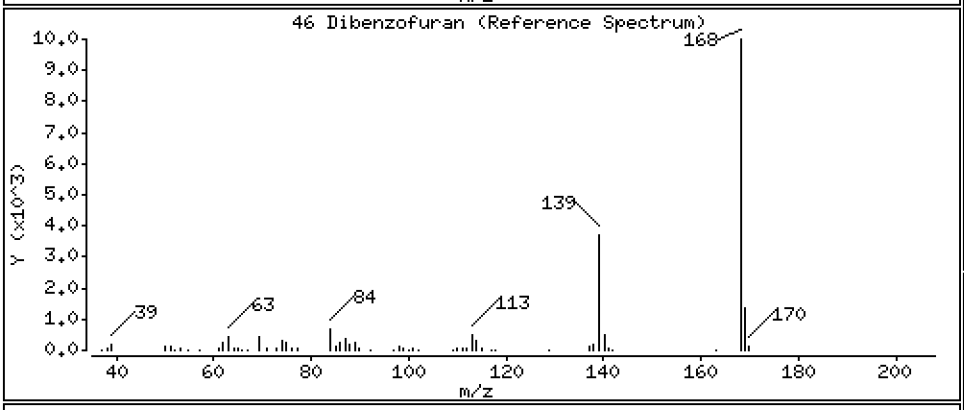
Concentration: 7.730 ug/mL

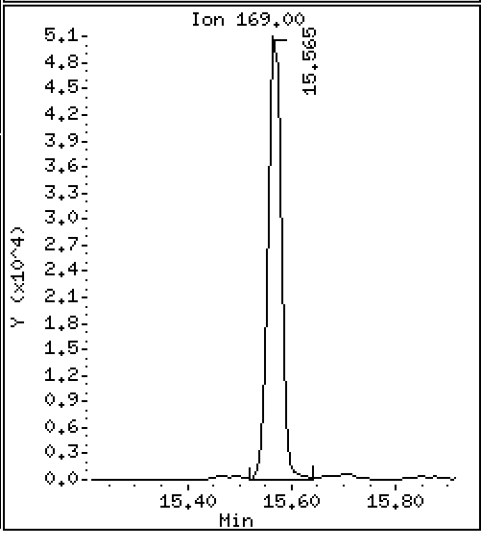


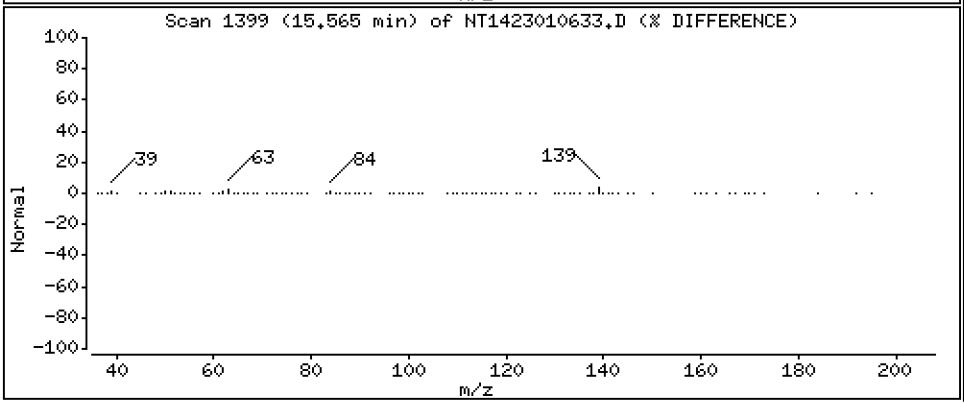












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

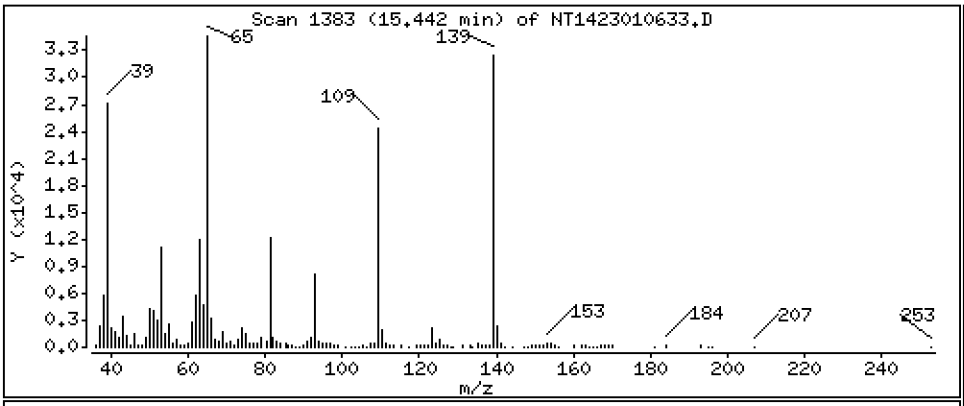
Operator: VTS

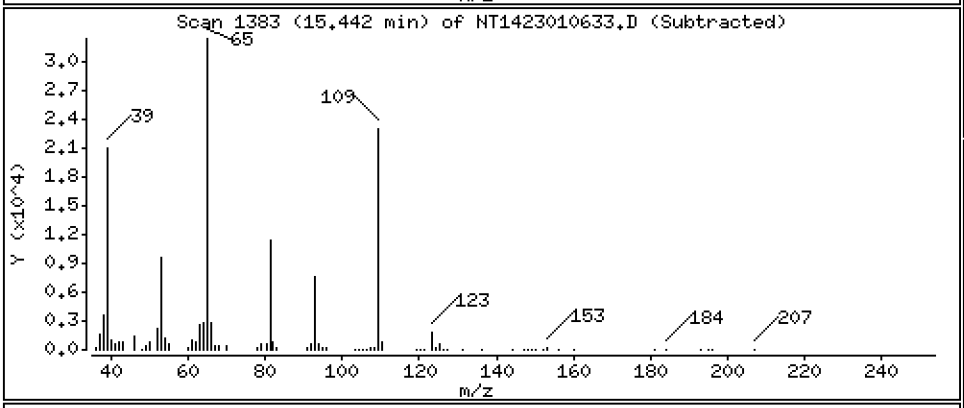
Column phase: ZB-5msi

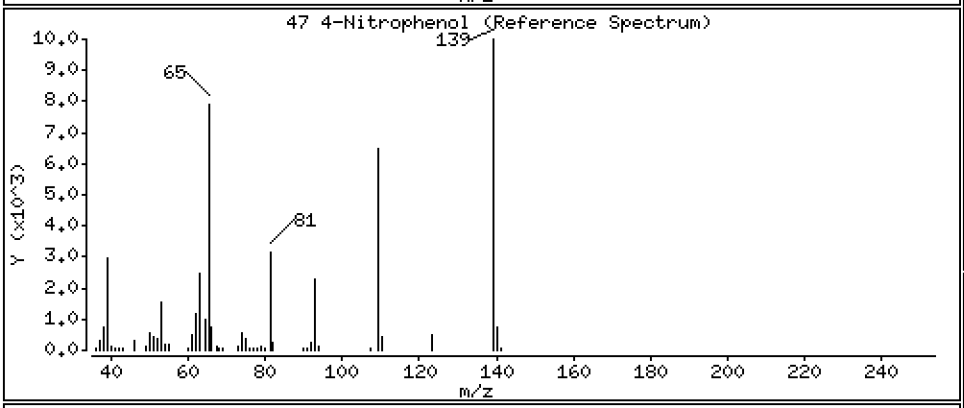
Column diameter: 0.25

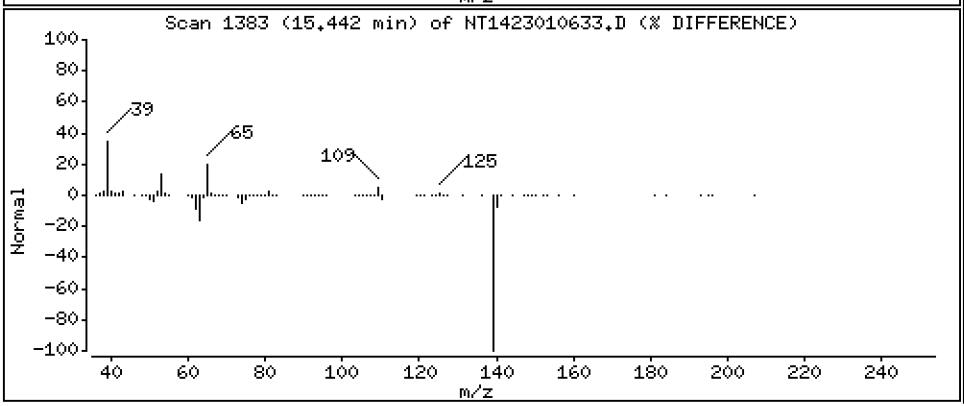
47 4-Nitrophenol

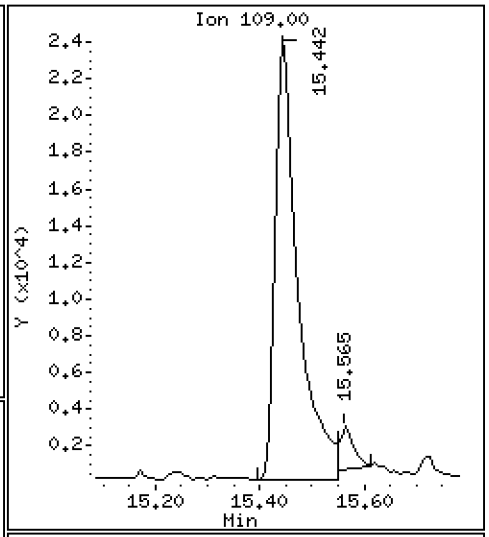
Concentration: 9.574 ug/mL

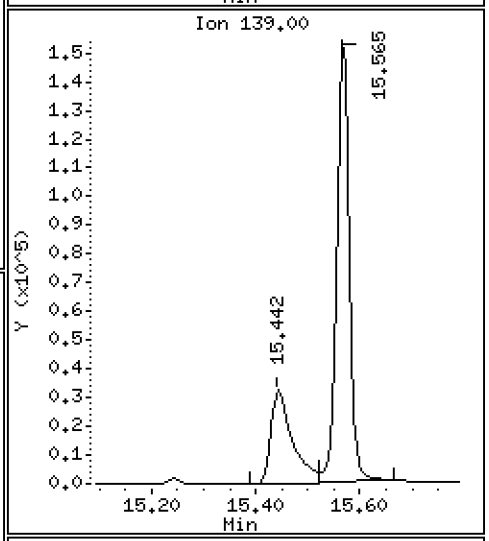


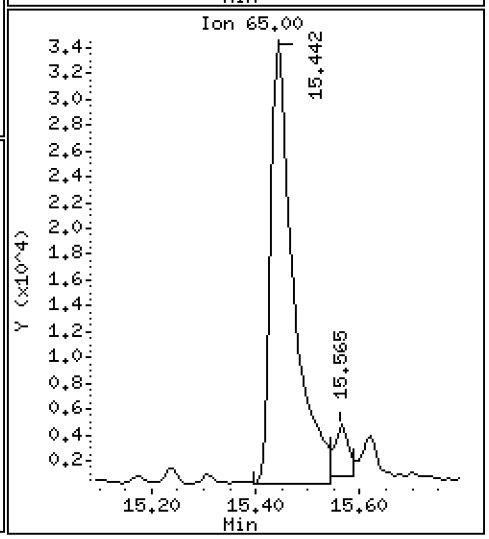












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

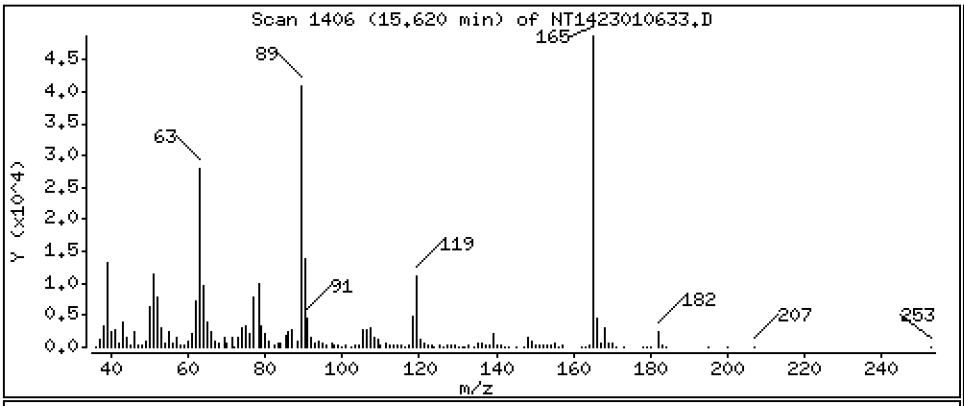
Operator: VTS

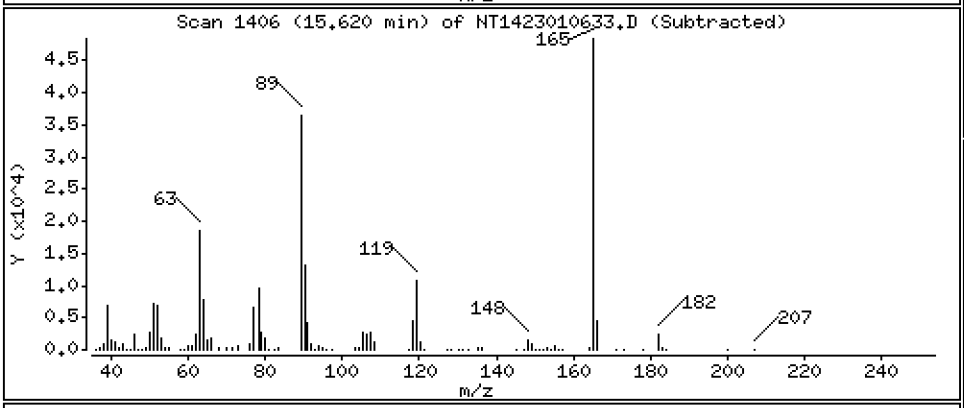
Column phase: ZB-5msi

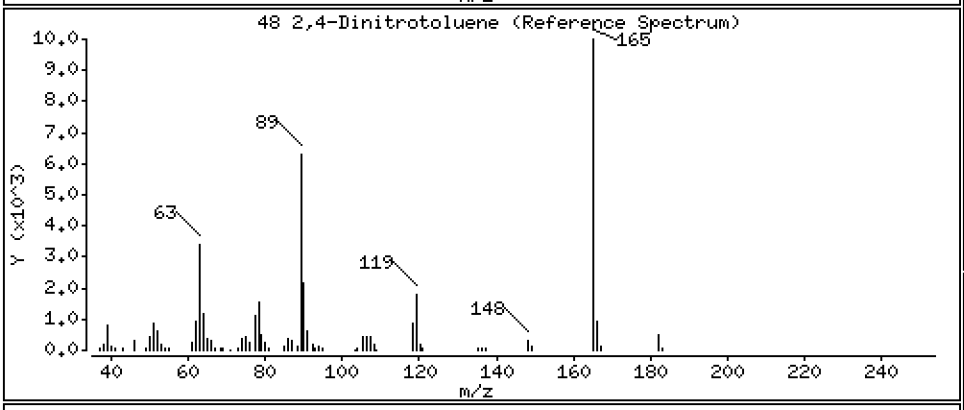
Column diameter: 0.25

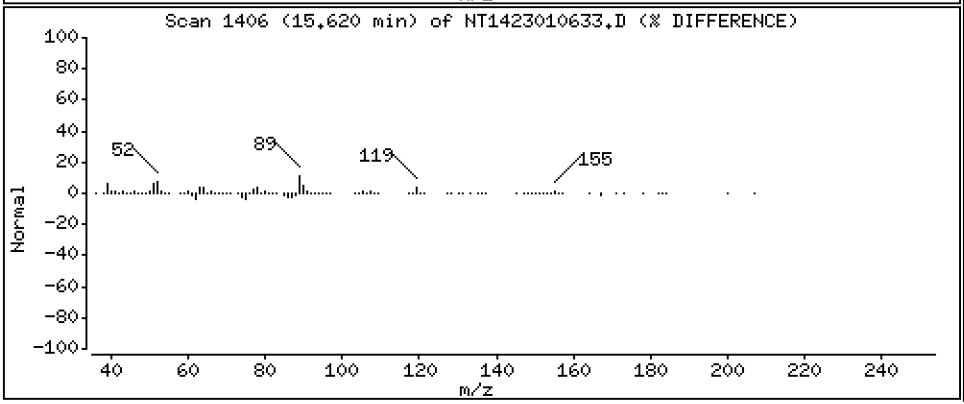
48 2,4-Dinitrotoluene

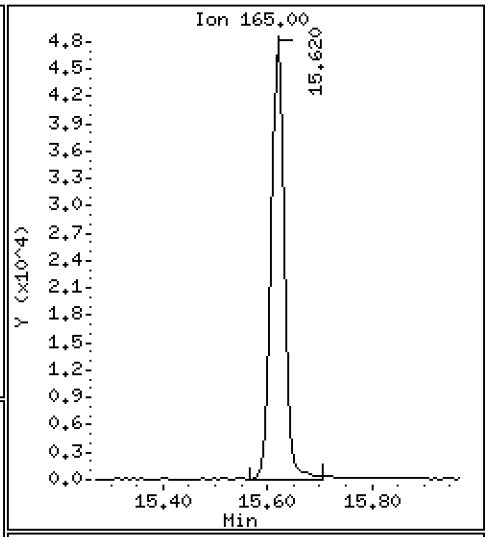
Concentration: 4.536 ug/mL

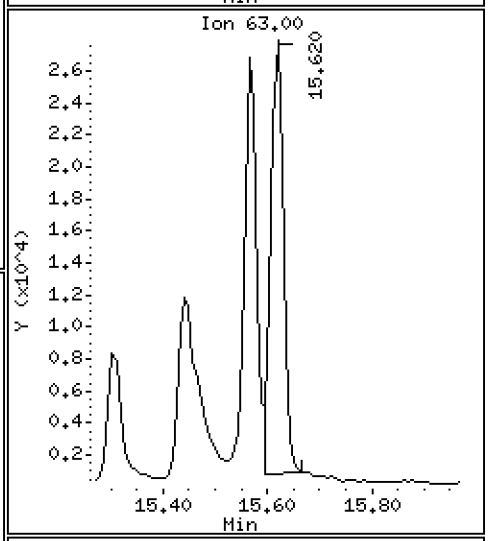


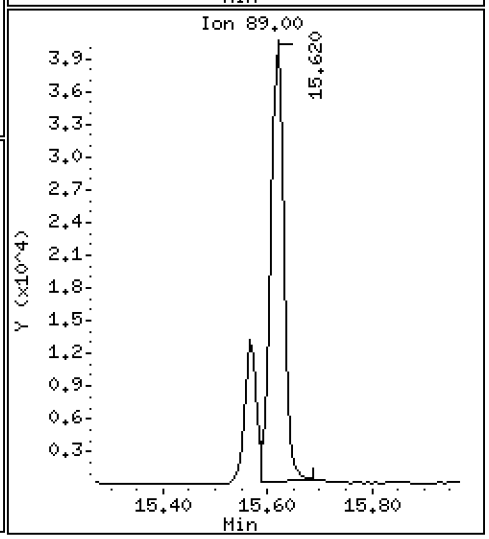












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

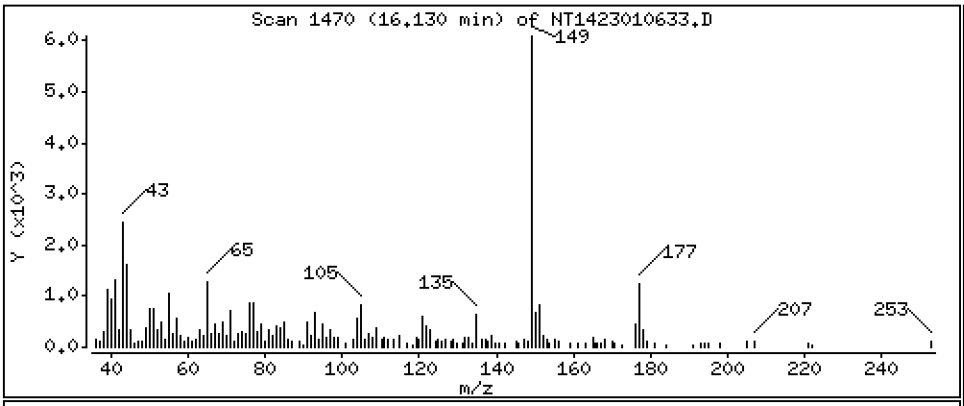
Operator: VTS

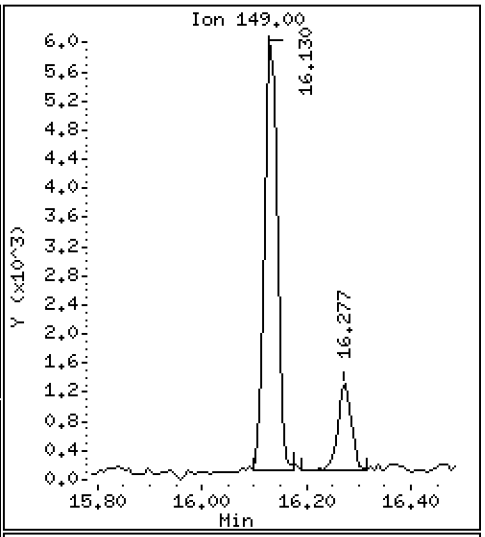
Column phase: ZB-5msi

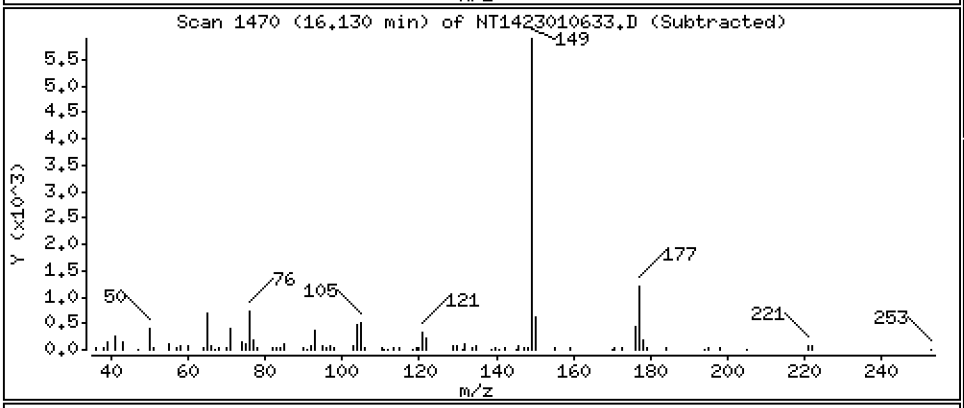
Column diameter: 0.25

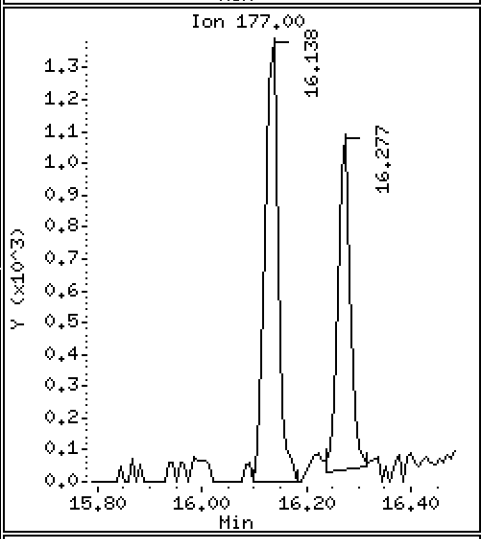
50 Diethylphthalate

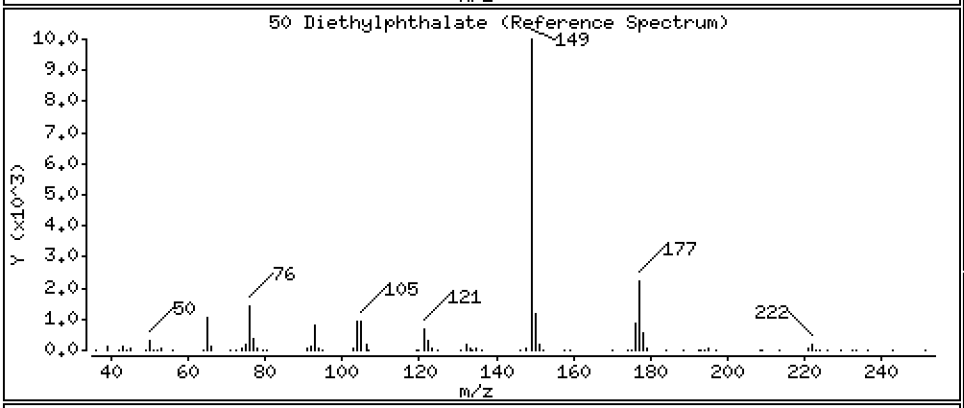
Concentration: 0.1225 ug/mL

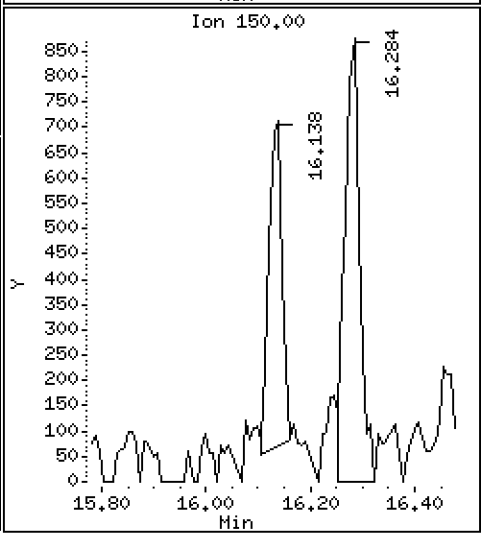


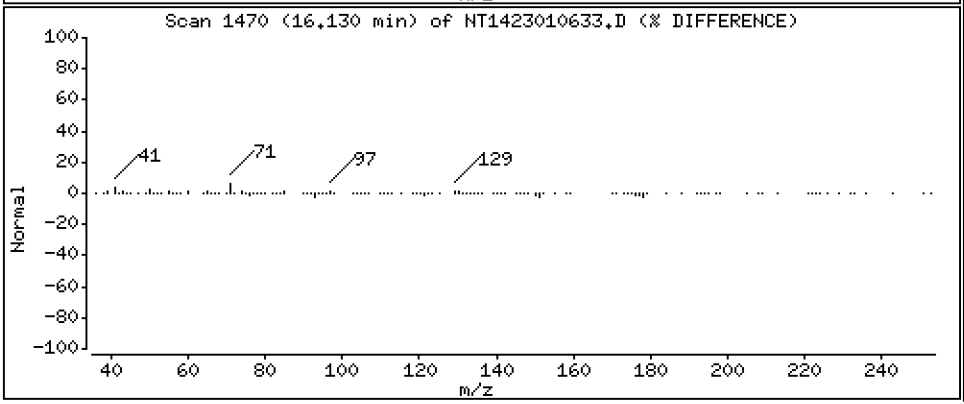












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

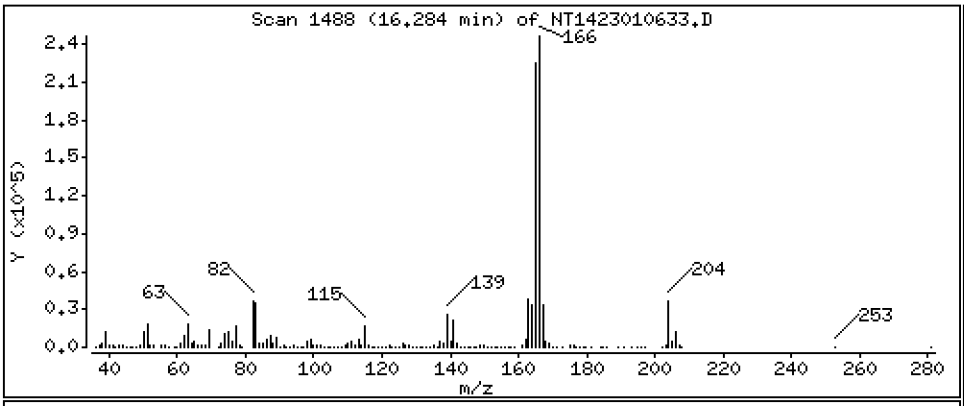
Operator: VTS

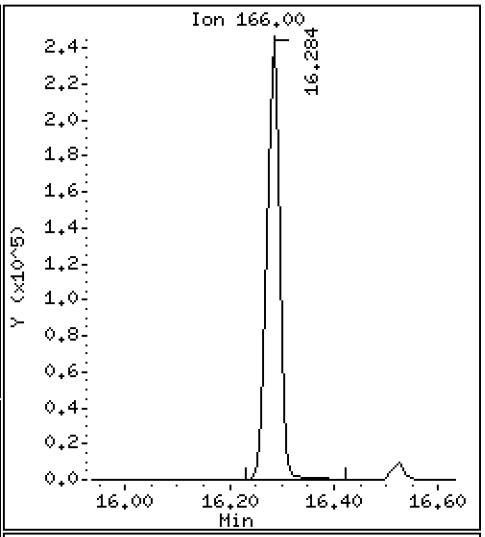
Column phase: ZB-5msi

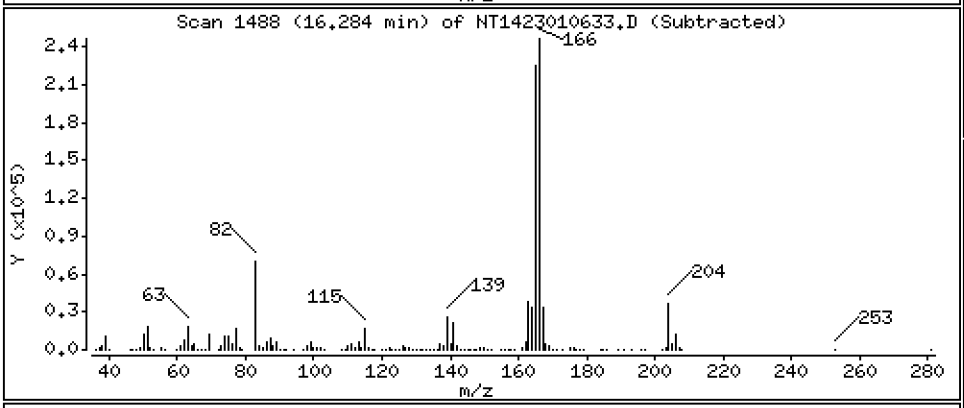
Column diameter: 0.25

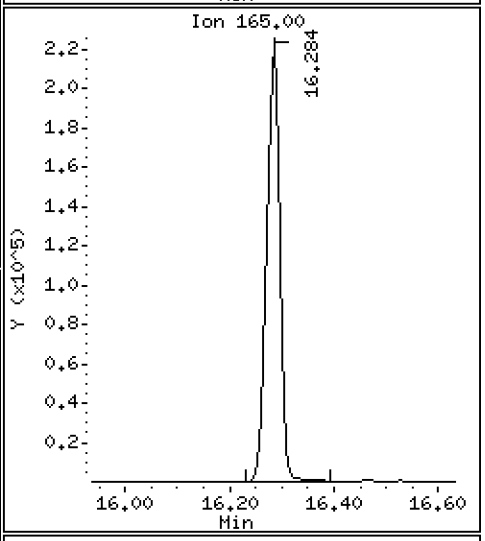
49 Fluorene

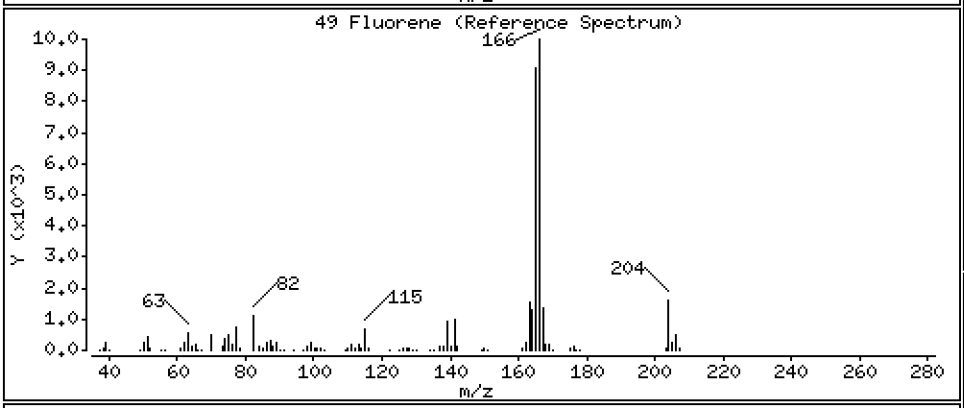
Concentration: 4.650 ug/mL

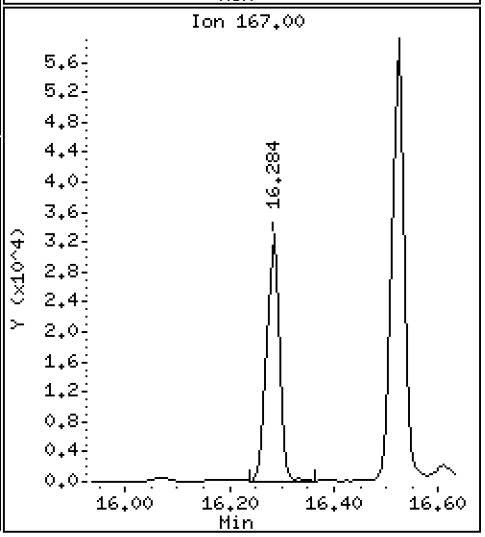


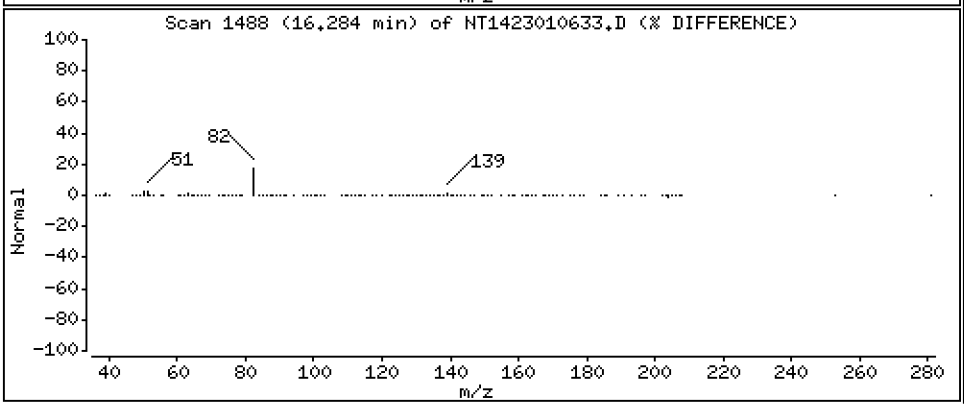












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

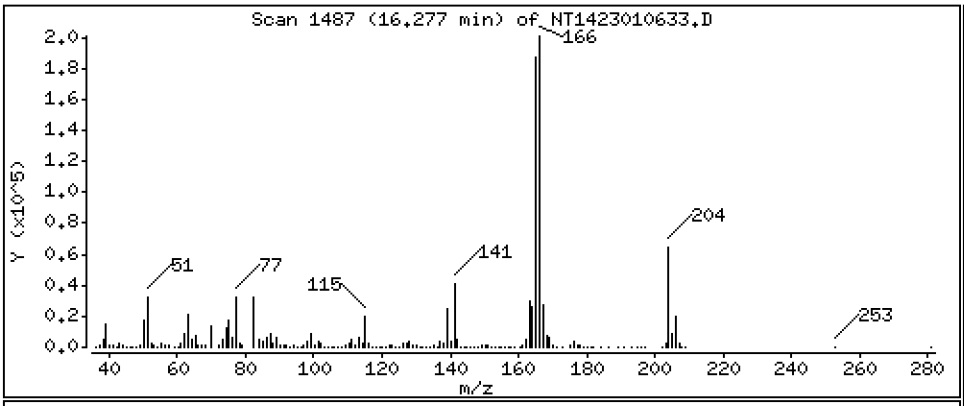
Operator: VTS

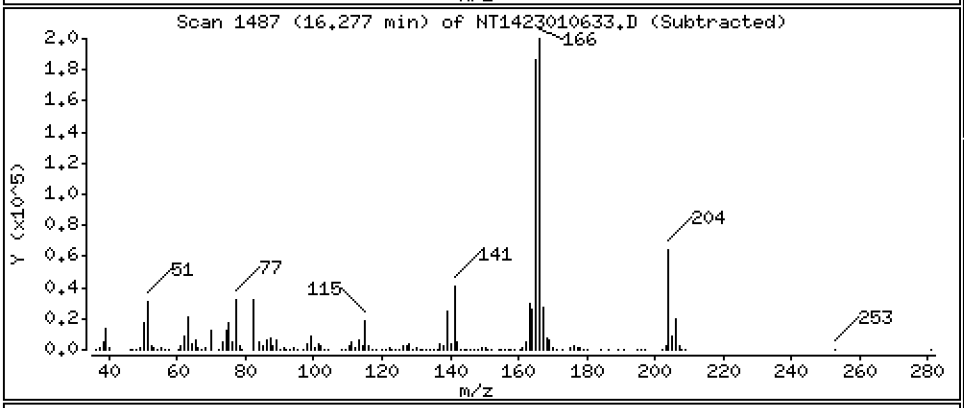
Column phase: ZB-5msi

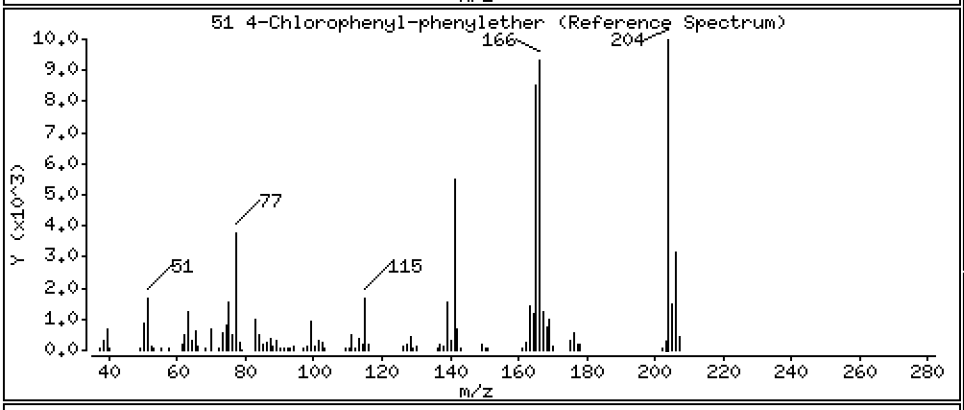
Column diameter: 0.25

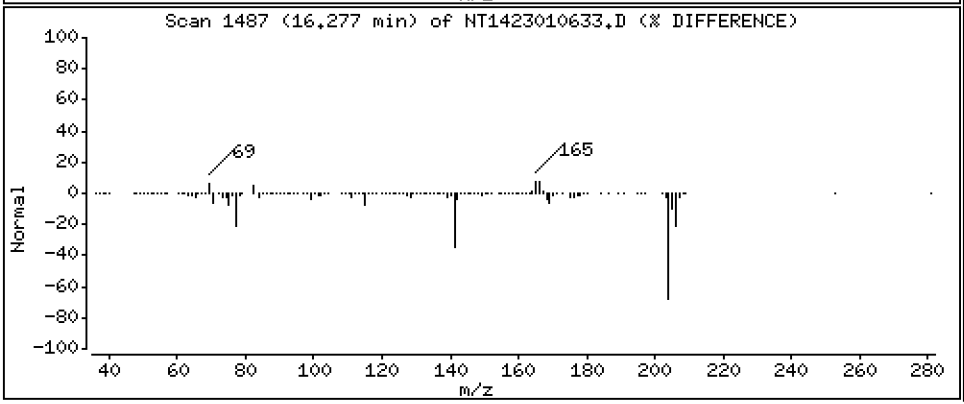
51 4-Chlorophenyl-phenylether

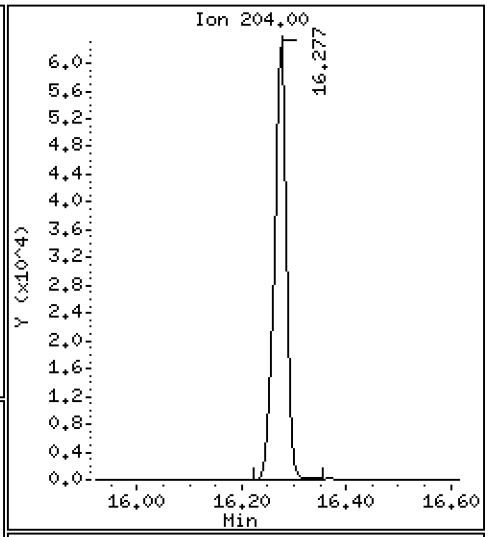
Concentration: 2.395 ug/mL

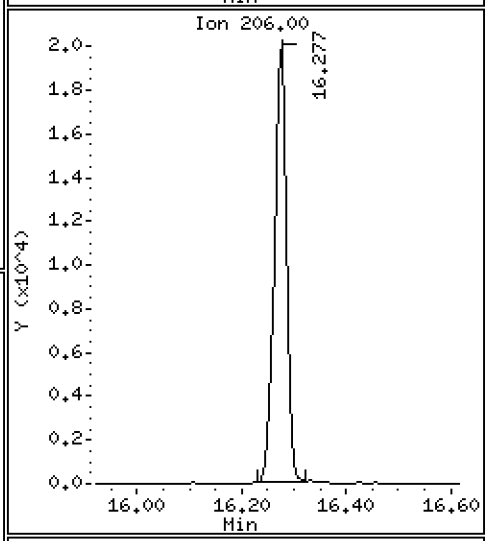


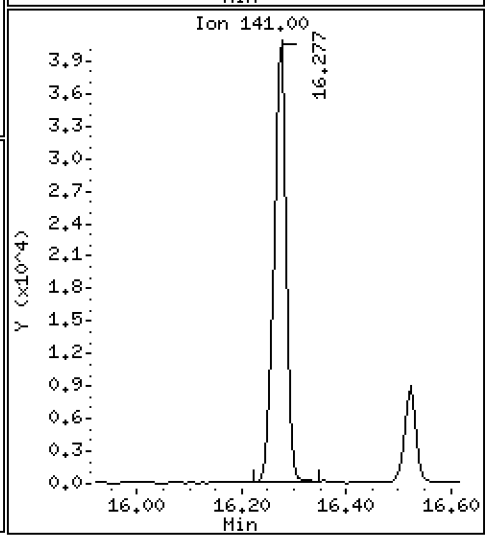












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010633.D

Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

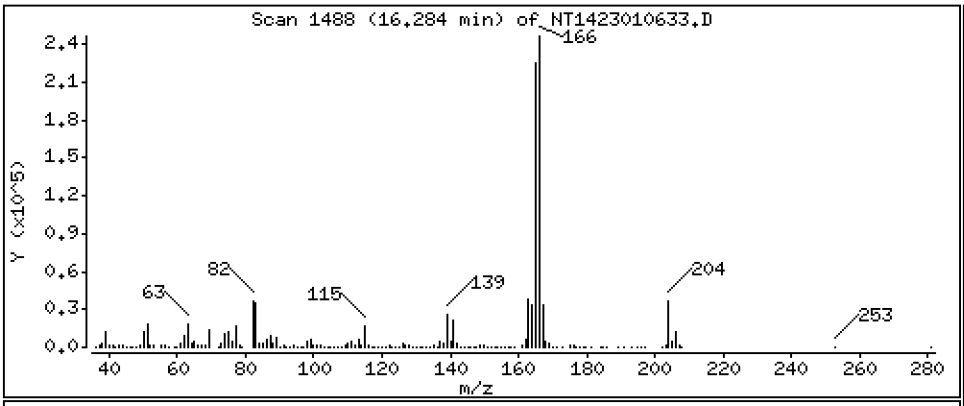
Operator: VTS

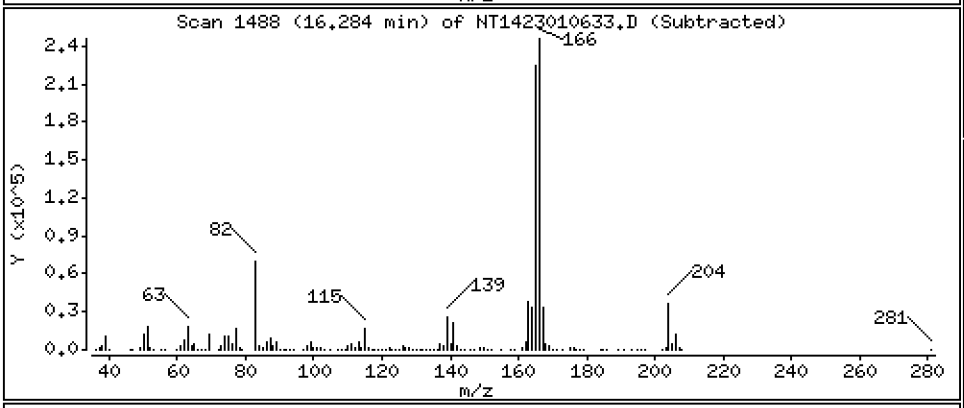
Column phase: ZB-5msi

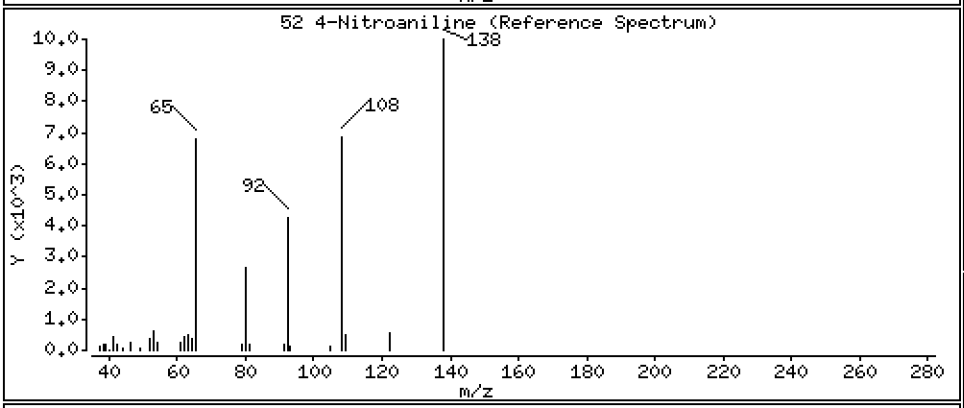
Column diameter: 0.25

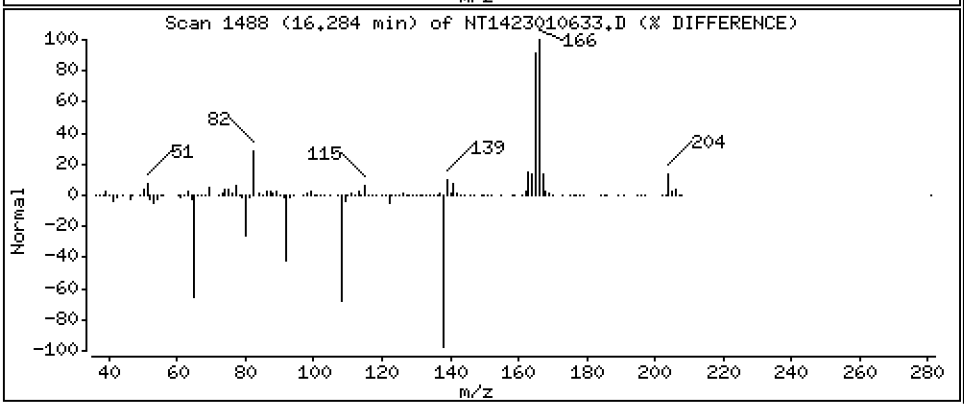
52 4-Nitroaniline

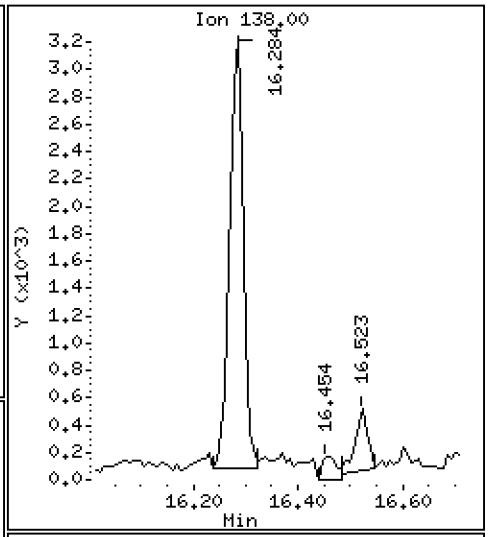
Concentration: 0.2965 ug/mL

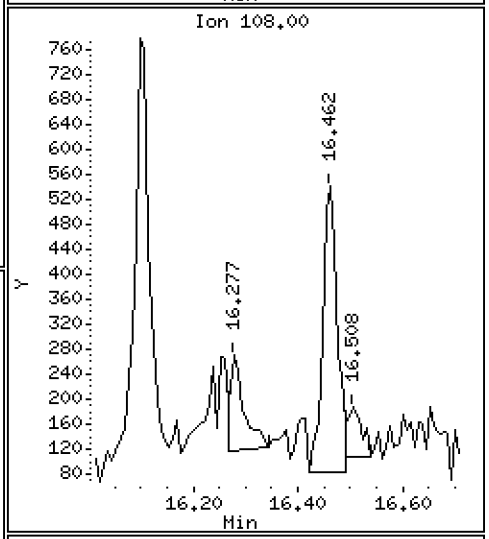


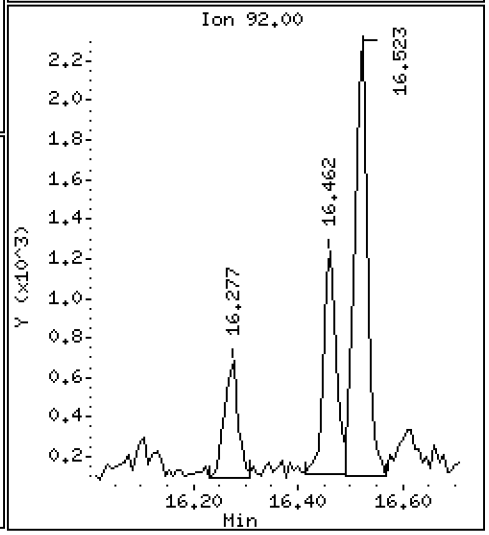












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

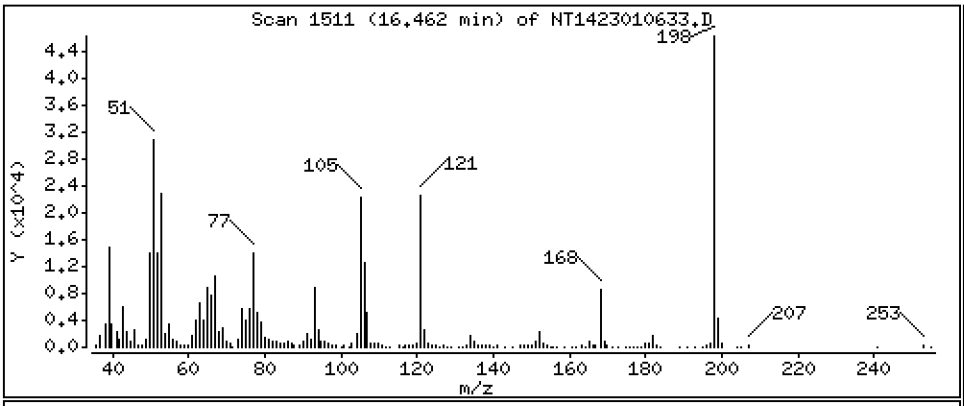
Operator: VTS

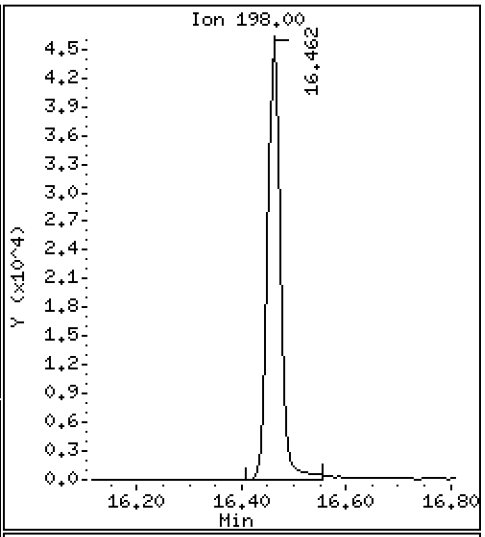
Column phase: ZB-5msi

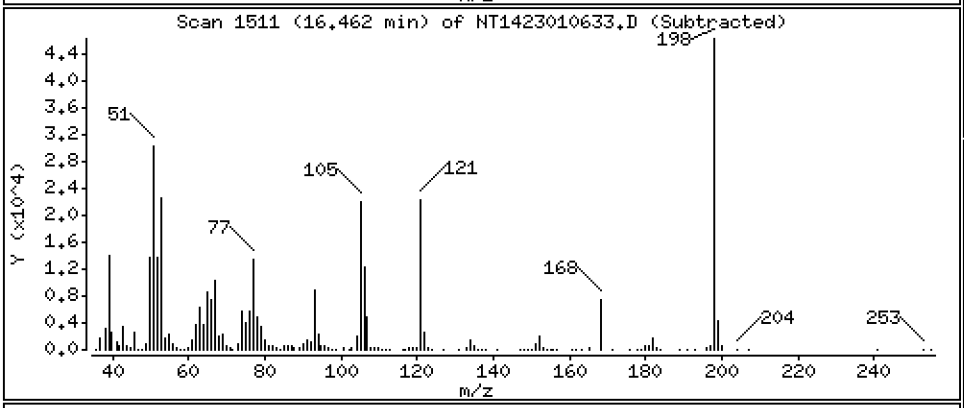
Column diameter: 0.25

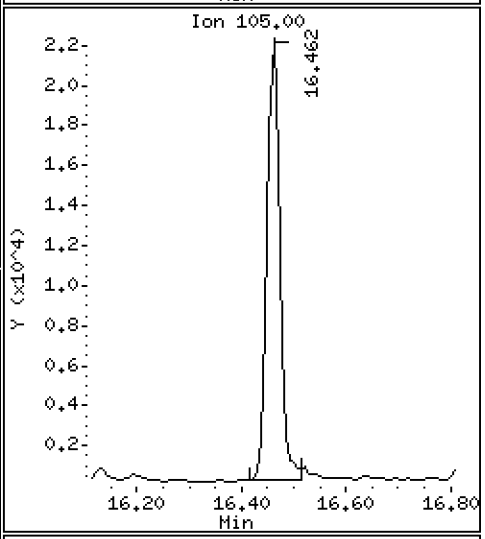
53 4,6-Dinitro-2-methylphenol

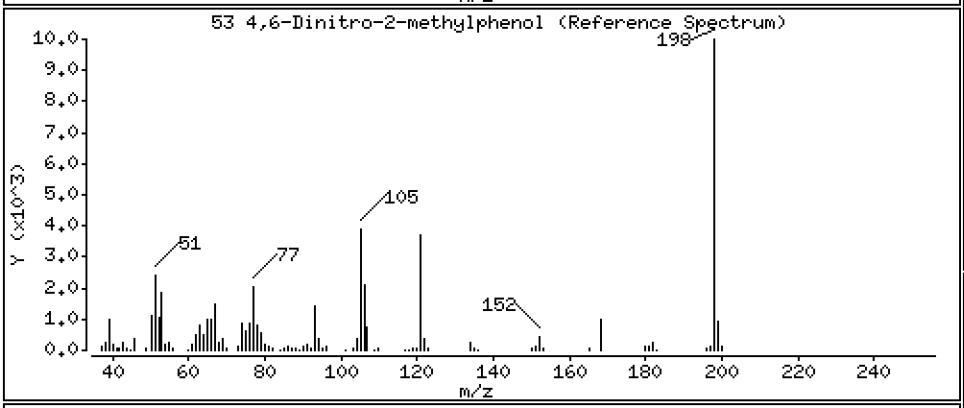
Concentration: 5.140 ug/mL

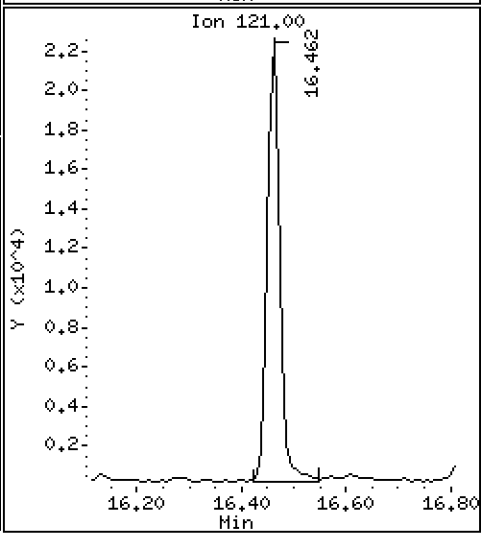


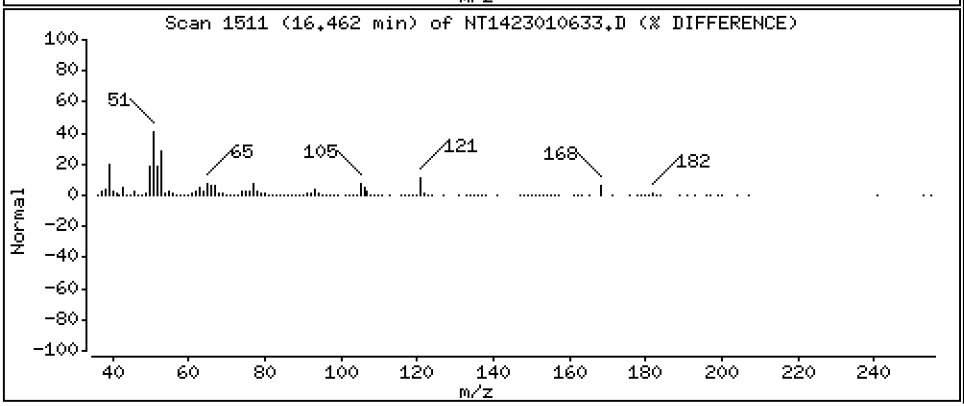












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

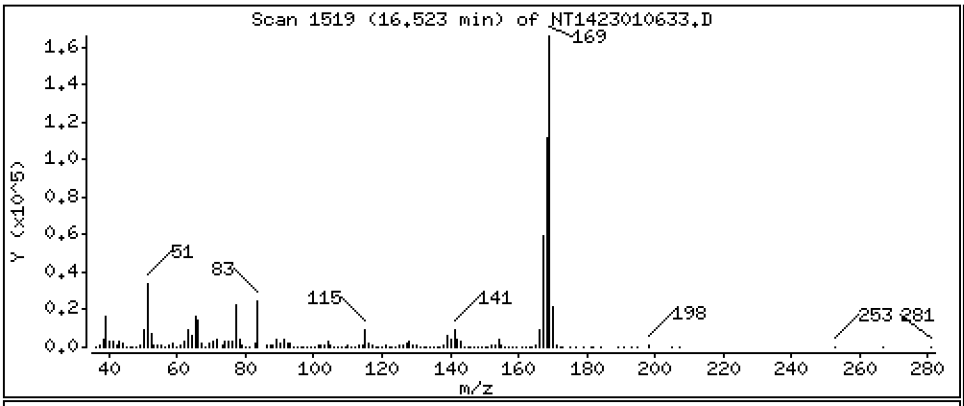
Operator: VTS

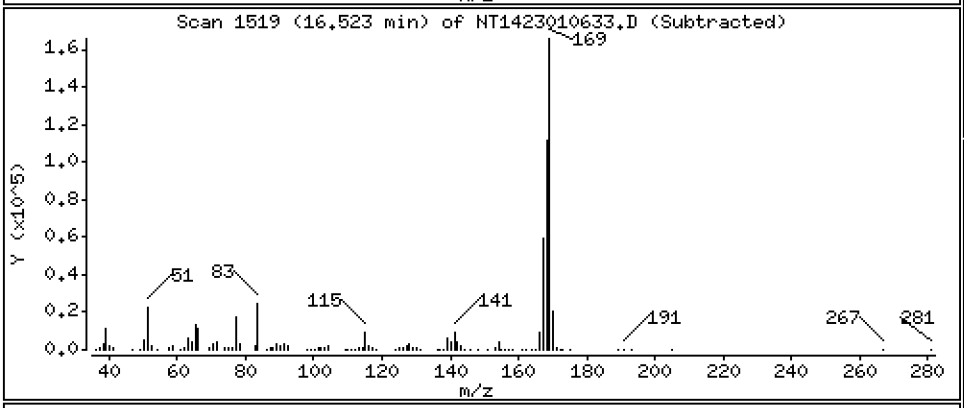
Column phase: ZB-5msi

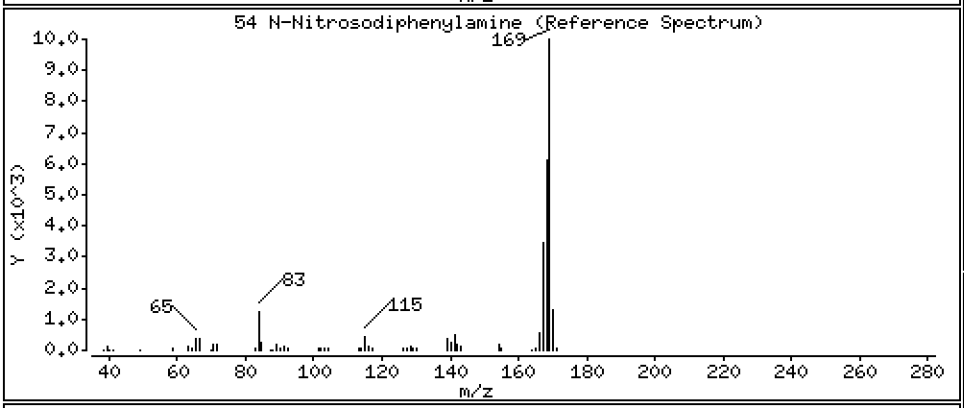
Column diameter: 0.25

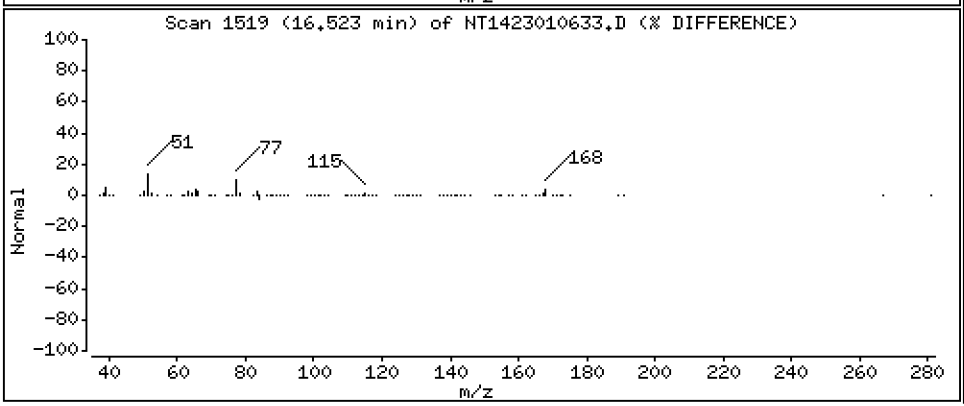
54 N-Nitrosodiphenylamine

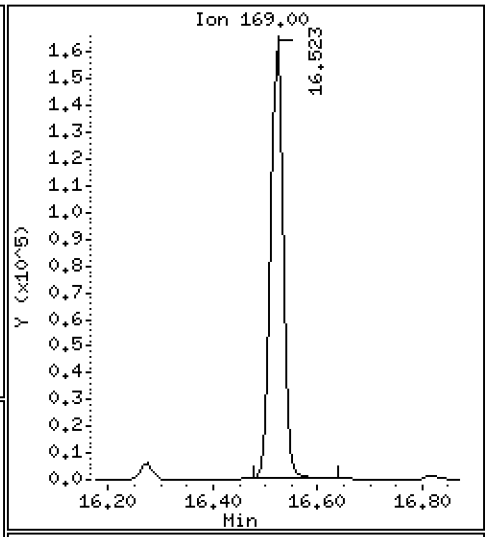
Concentration: 4.403 ug/mL

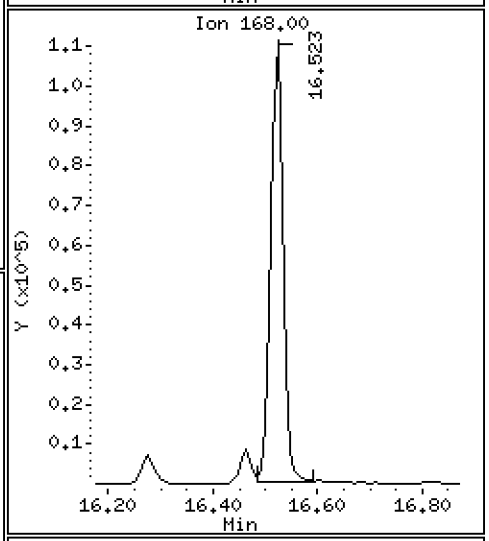


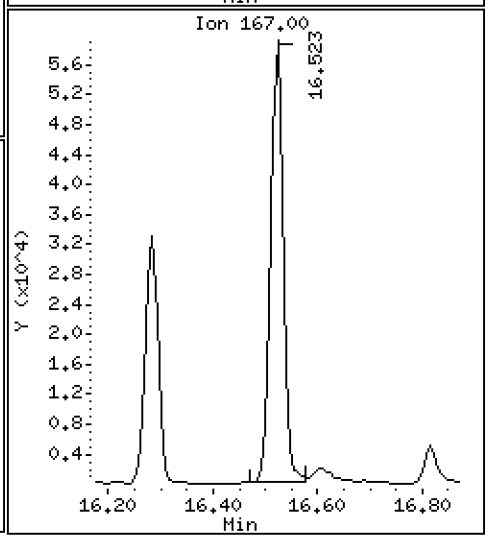












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

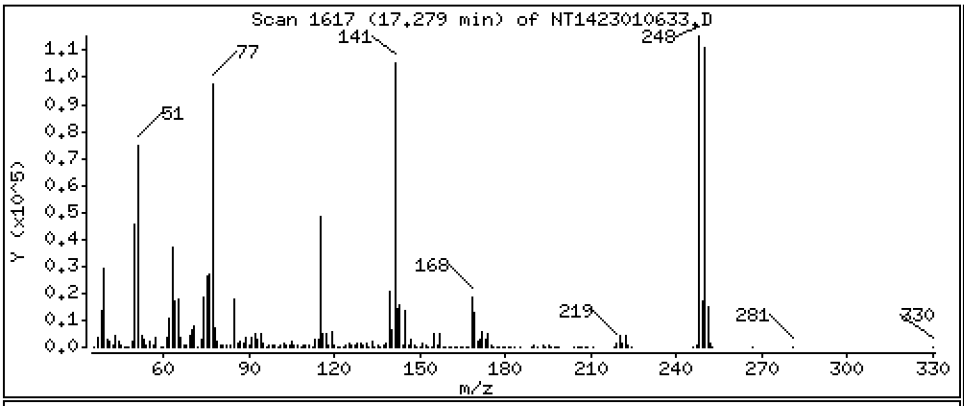
Operator: VTS

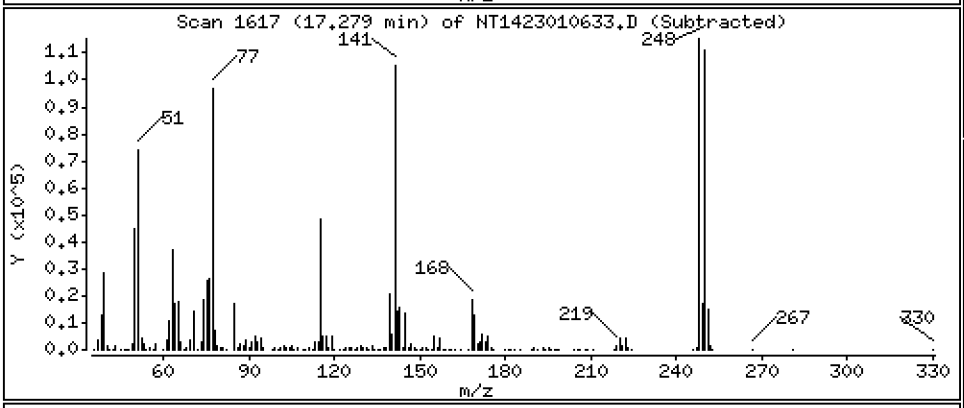
Column phase: ZB-5msi

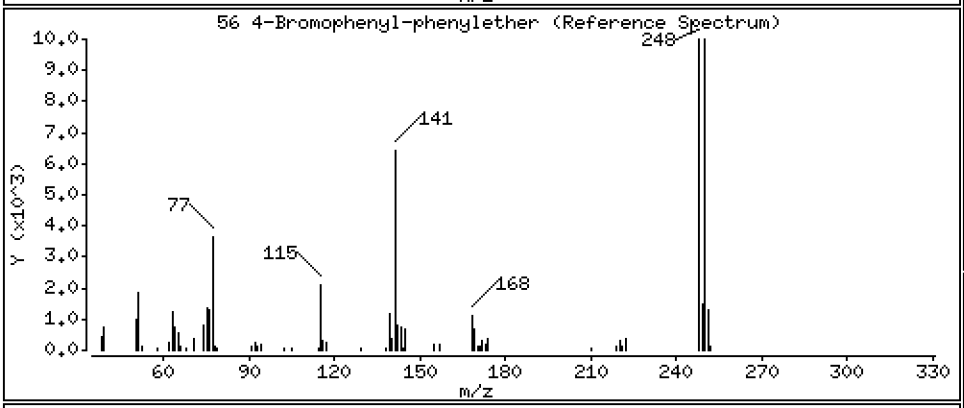
Column diameter: 0.25

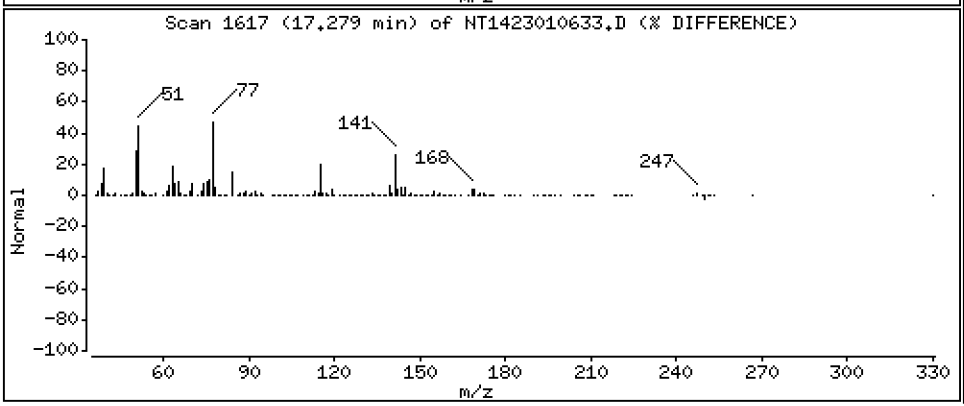
56 4-Bromophenyl-phenylether

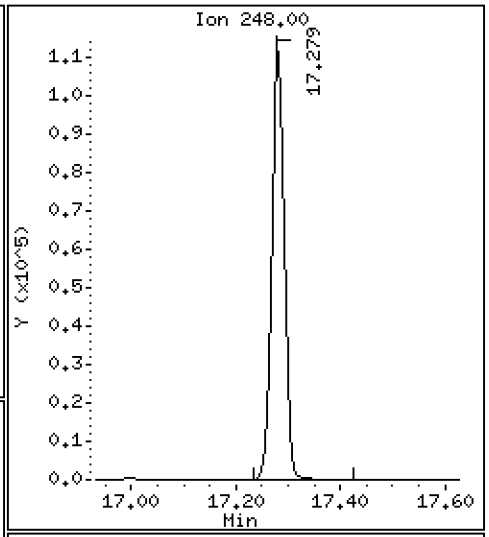
Concentration: 8.760 ug/mL

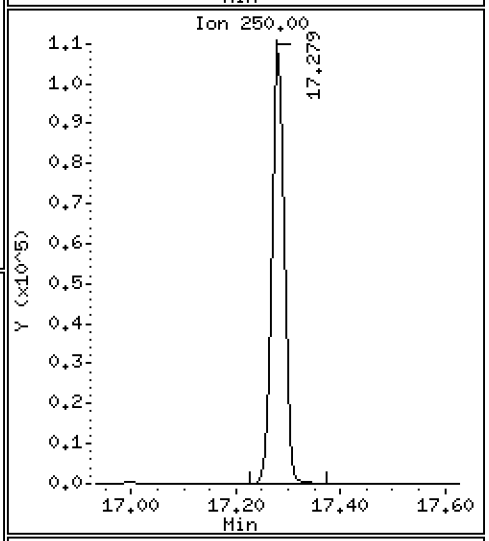


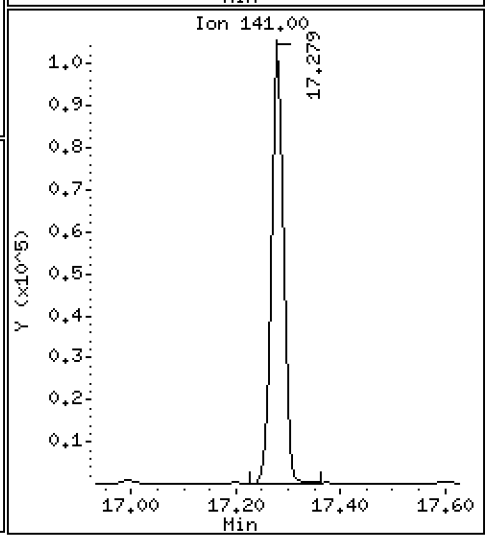












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

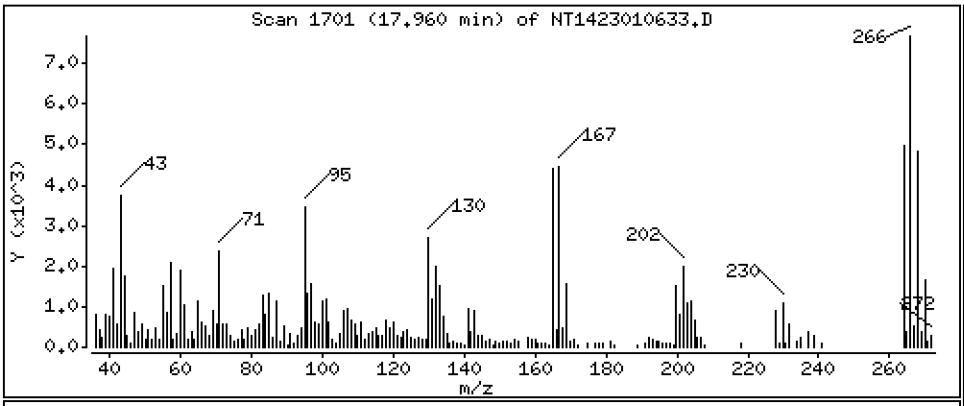
Operator: VTS

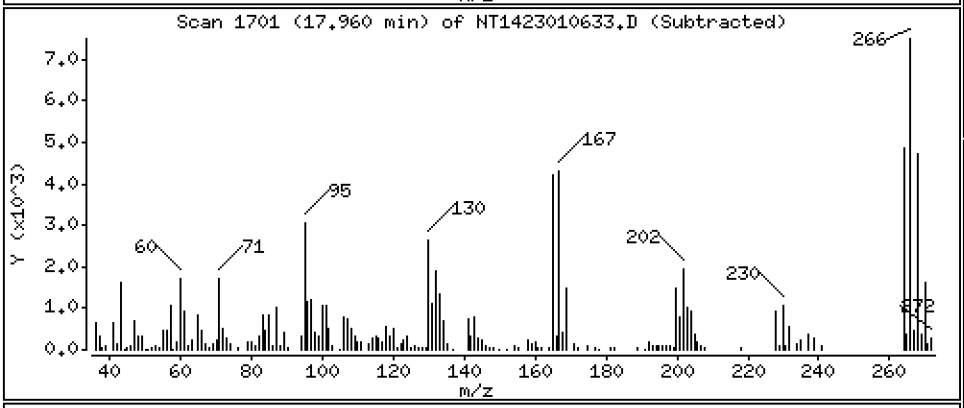
Column phase: ZB-5msi

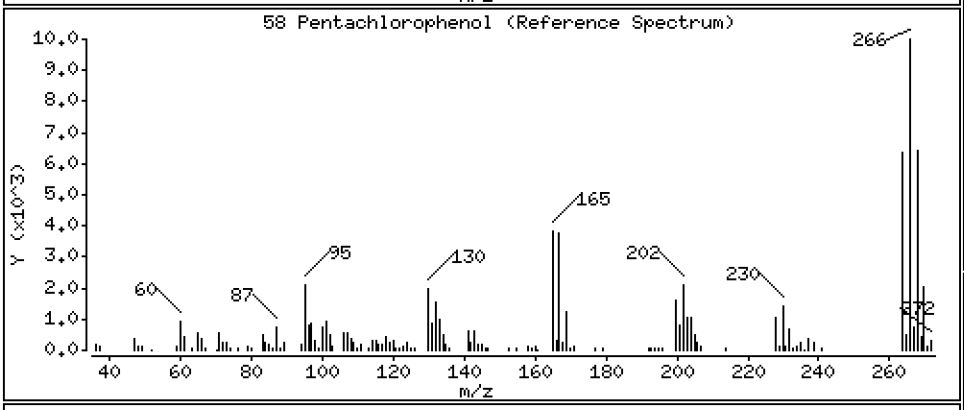
Column diameter: 0.25

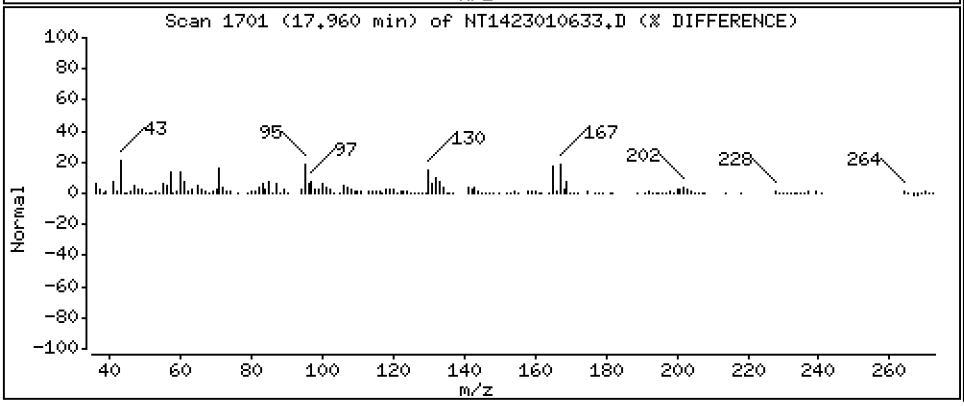
58 Pentachlorophenol

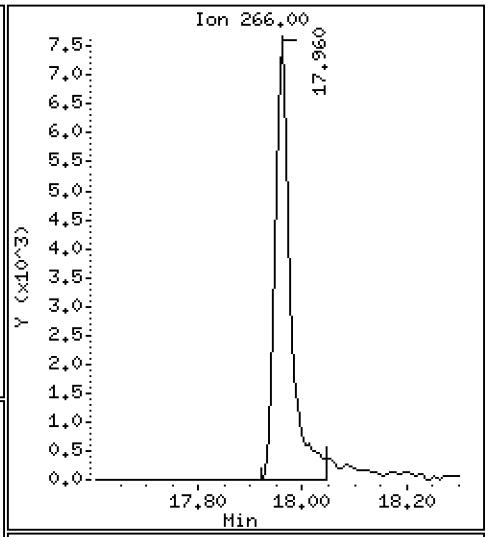
Concentration: 1.458 ug/mL

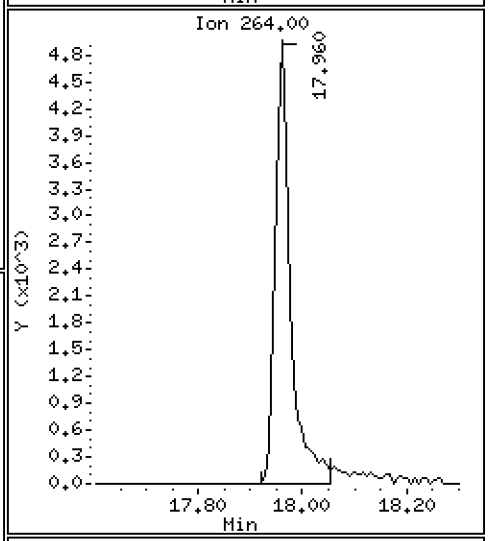


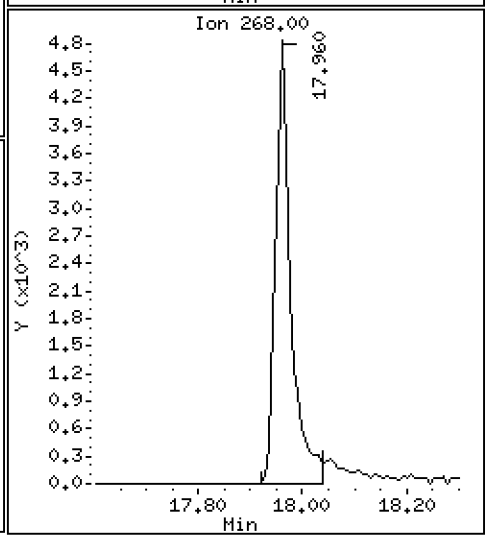












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

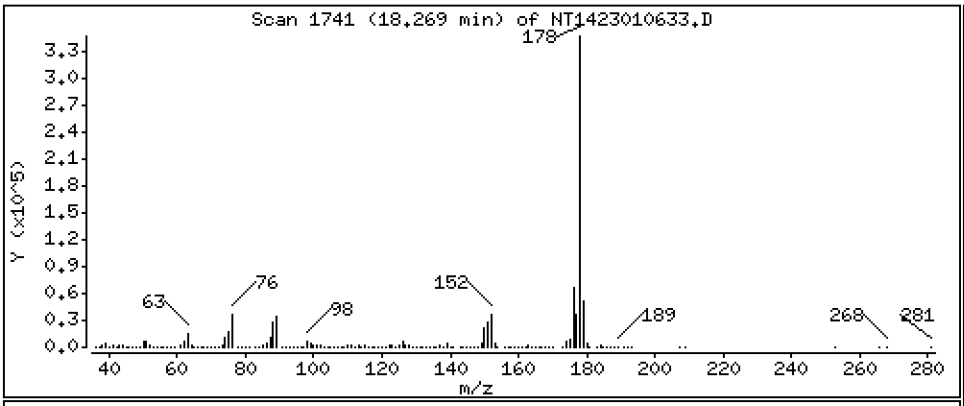
Operator: VTS

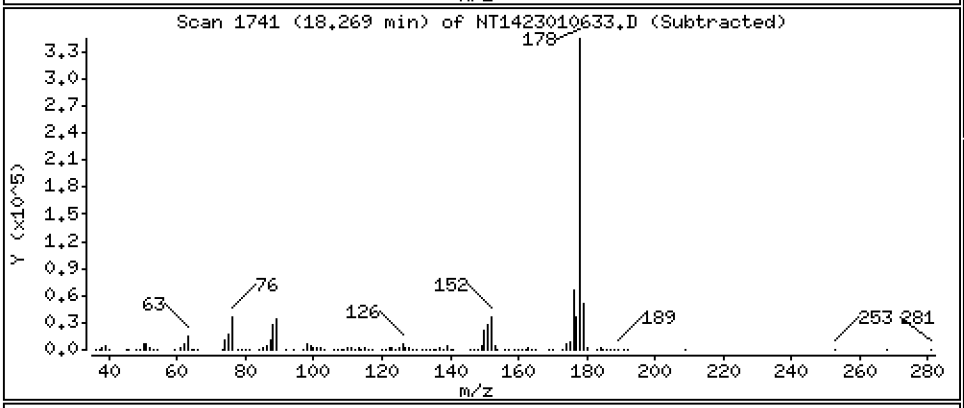
Column phase: ZB-5msi

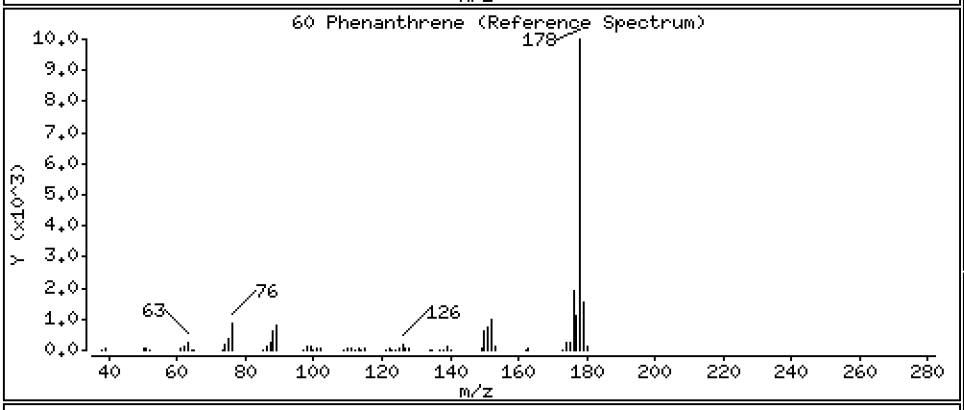
Column diameter: 0.25

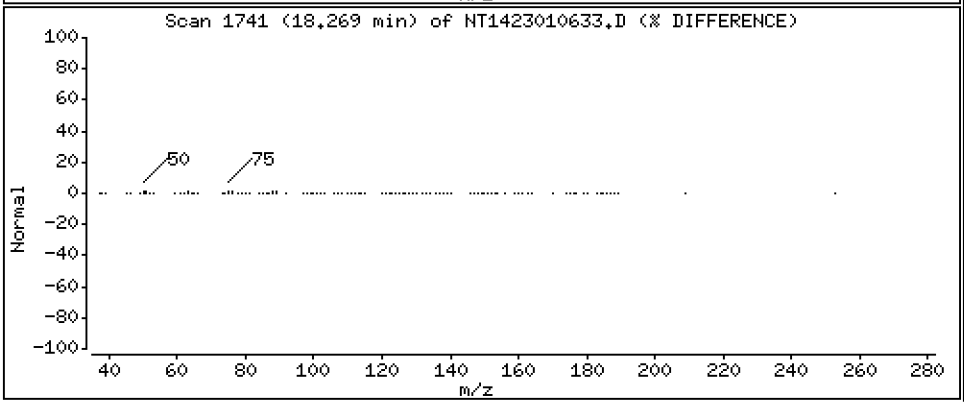
60 Phenanthrene

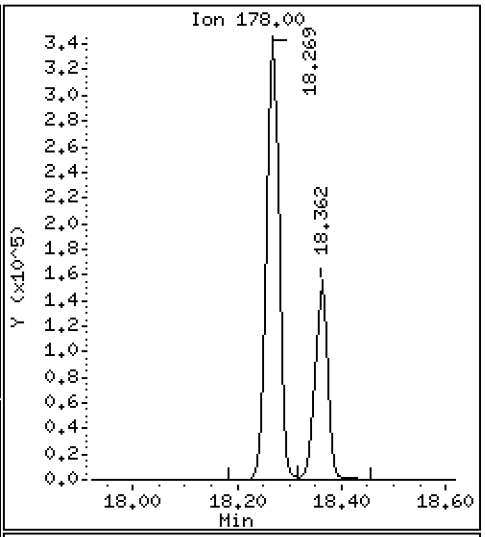
Concentration: 6.158 ug/mL

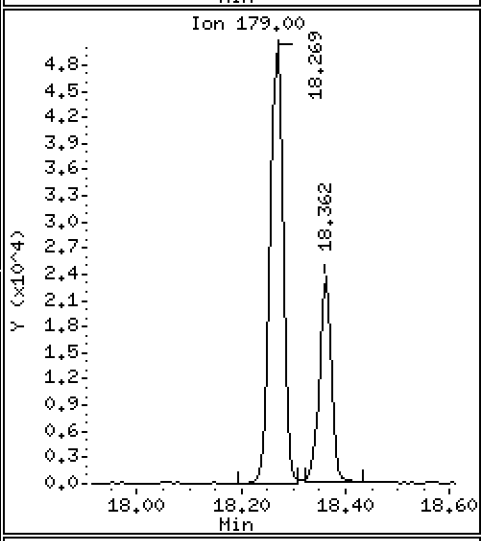


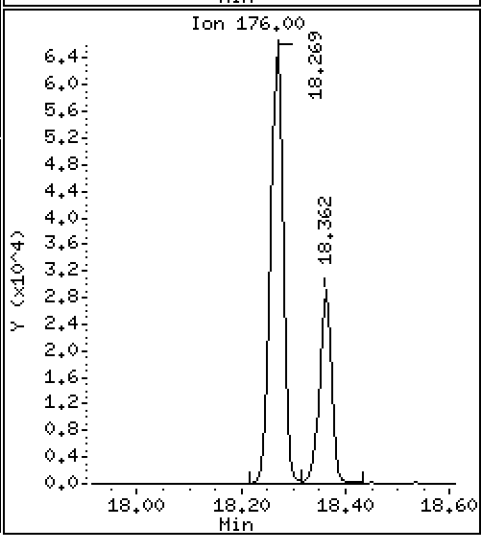












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

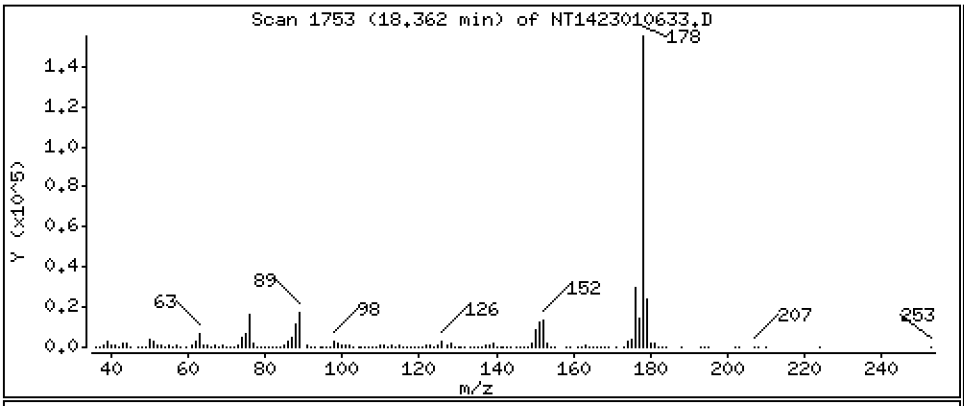
Operator: VTS

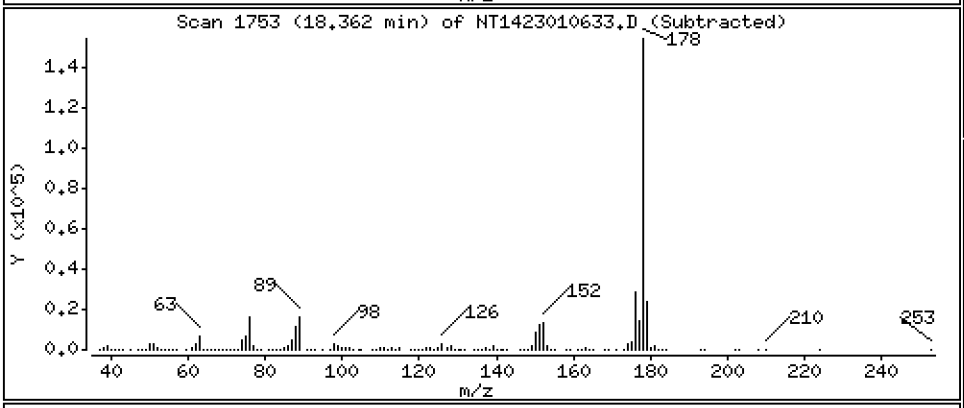
Column phase: ZB-5msi

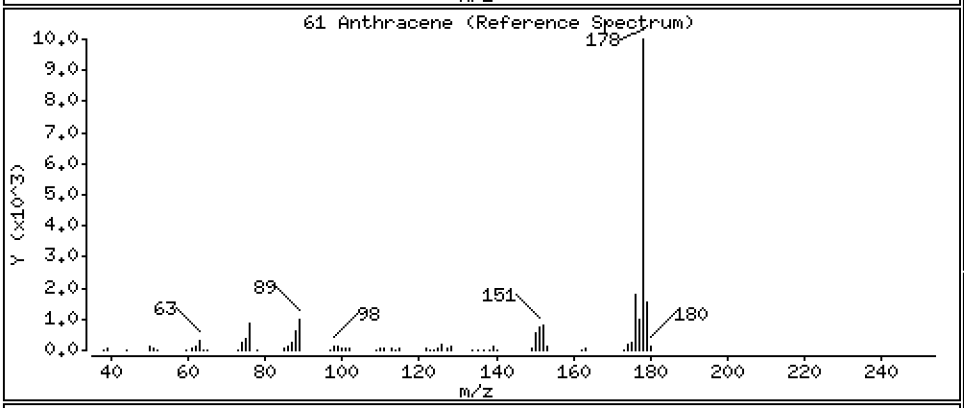
Column diameter: 0.25

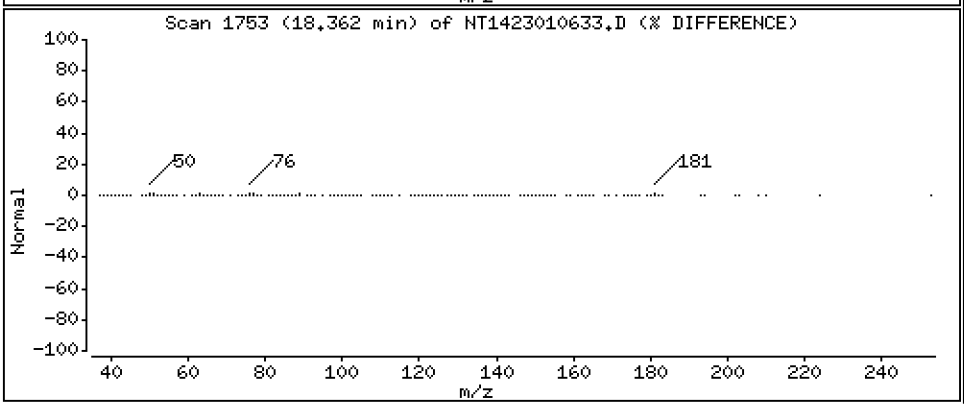
61 Anthracene

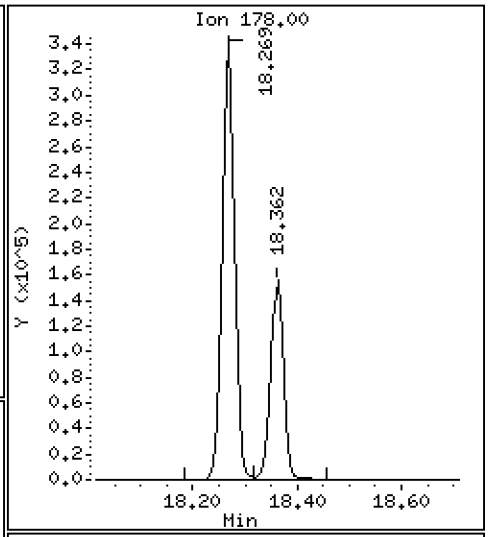
Concentration: 2.961 ug/mL

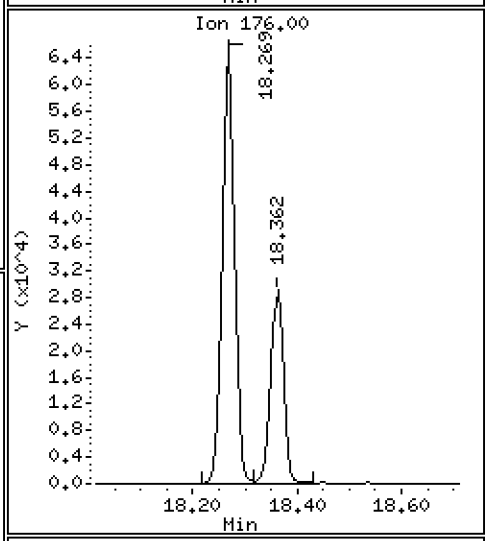


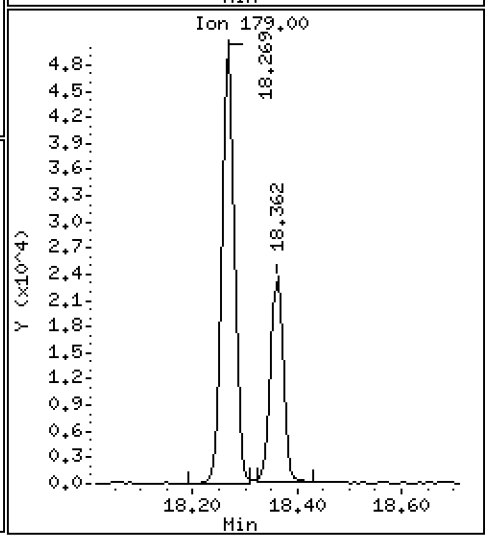












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

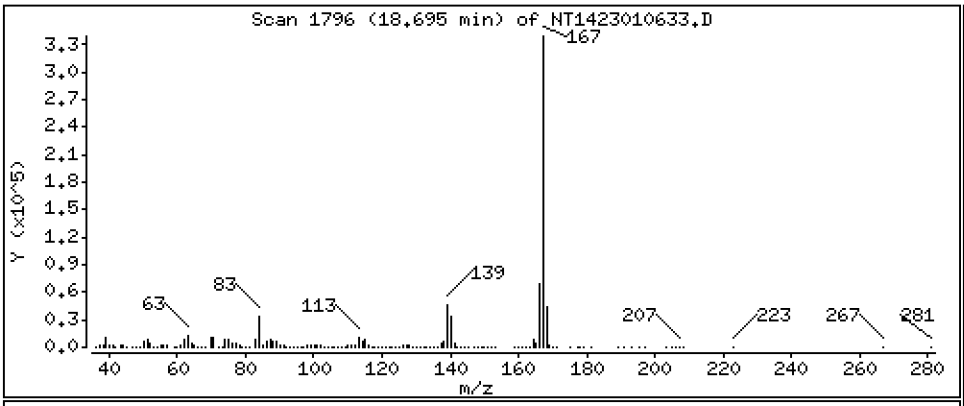
Operator: VTS

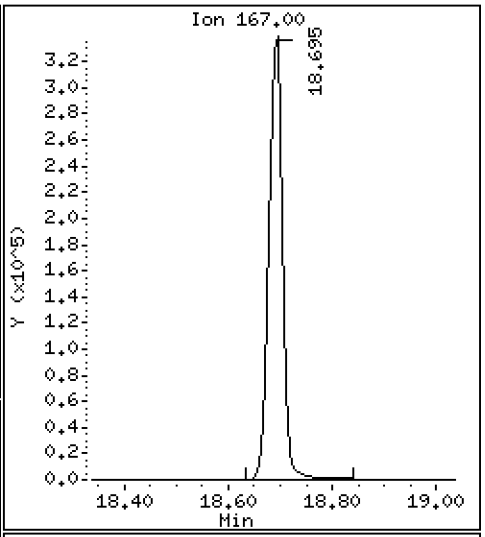
Column phase: ZB-5msi

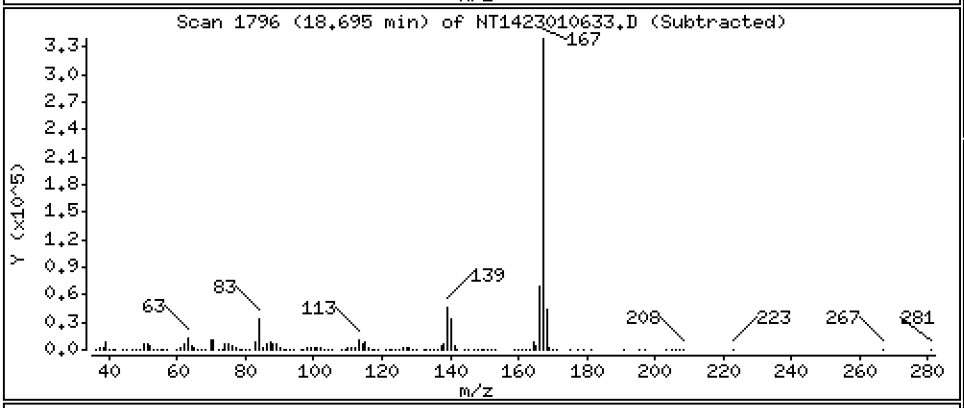
Column diameter: 0.25

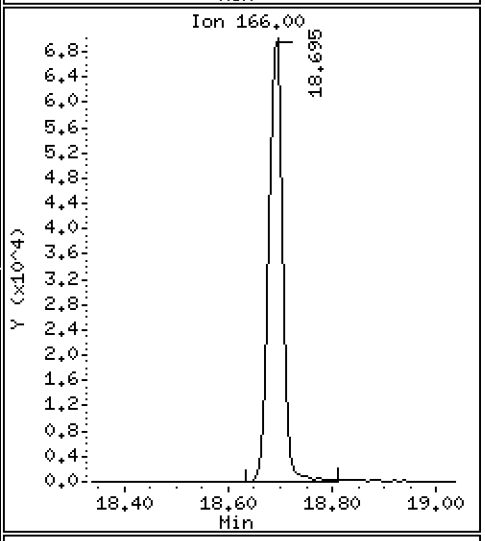
62 Carbazole

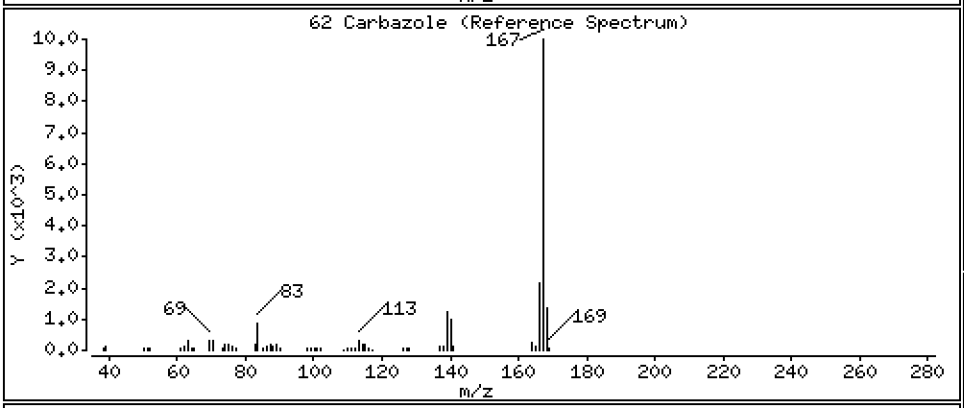
Concentration: 7.226 ug/mL

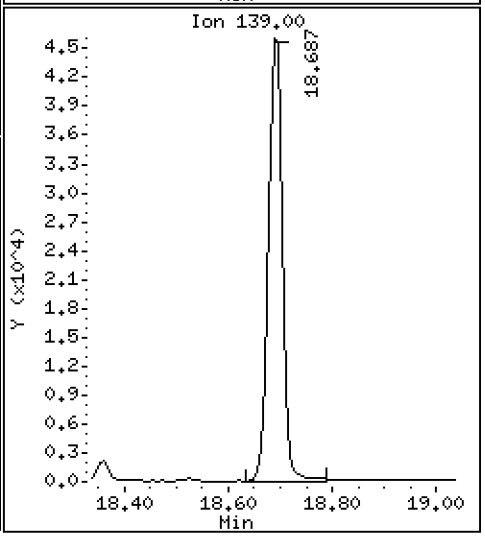


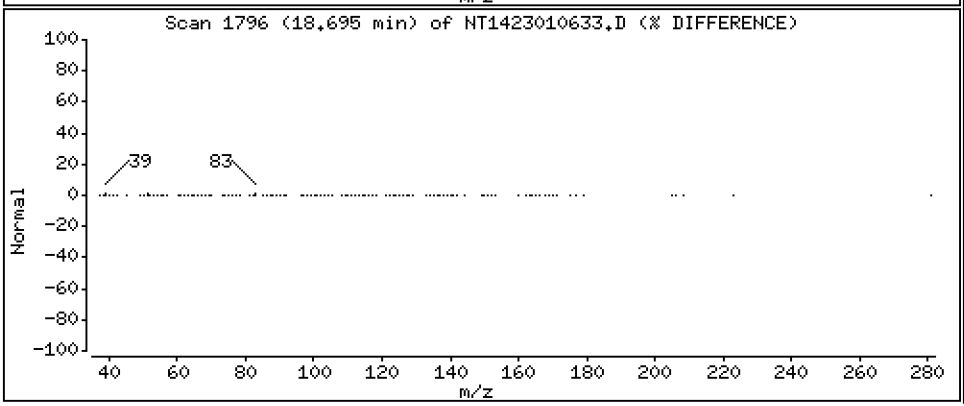












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

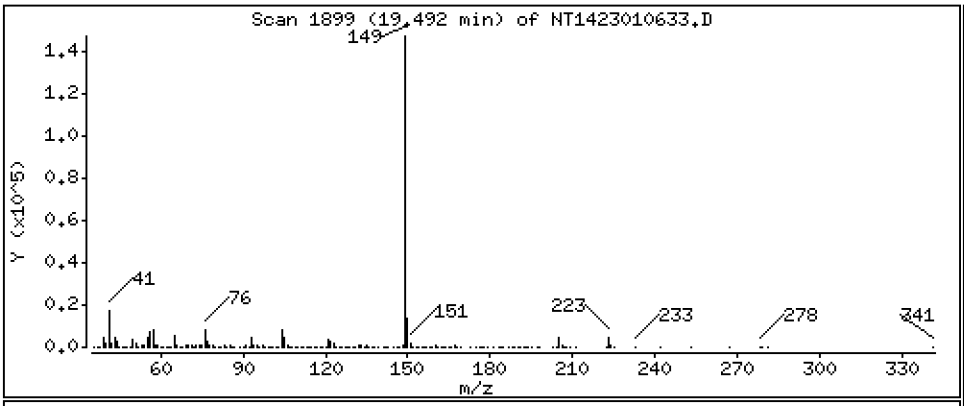
Operator: VTS

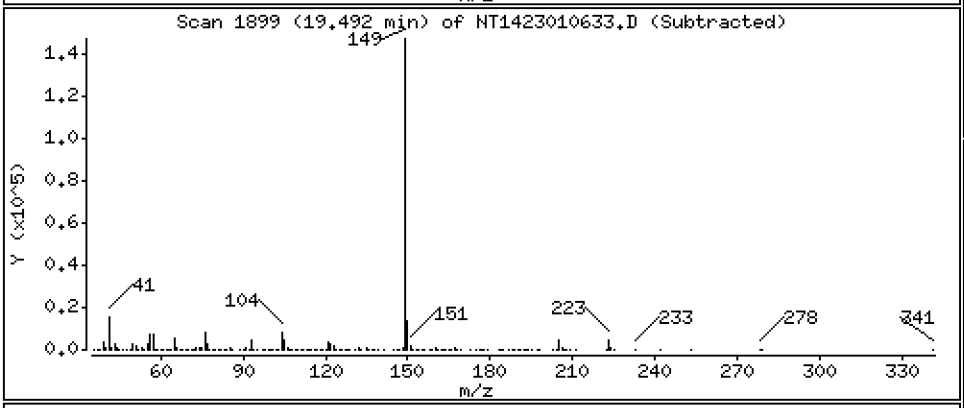
Column phase: ZB-5msi

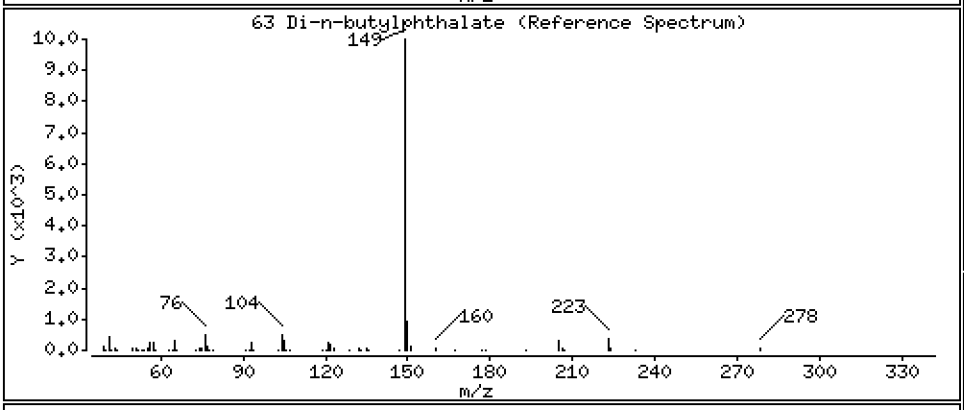
Column diameter: 0.25

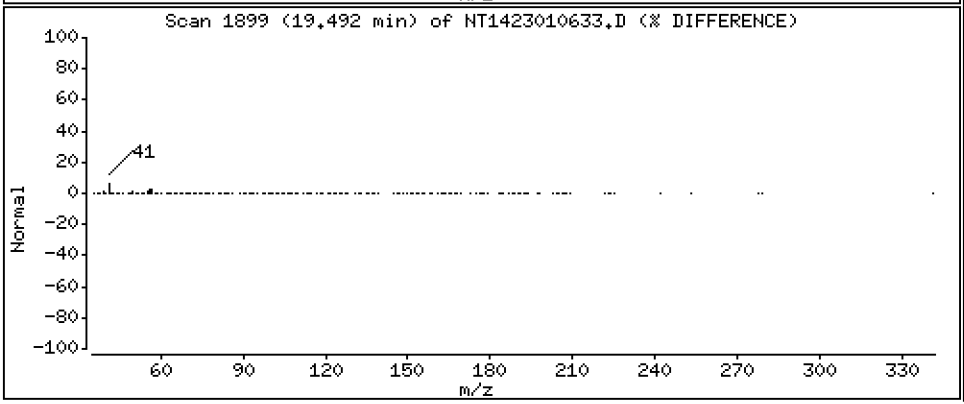
63 Di-n-butylphthalate

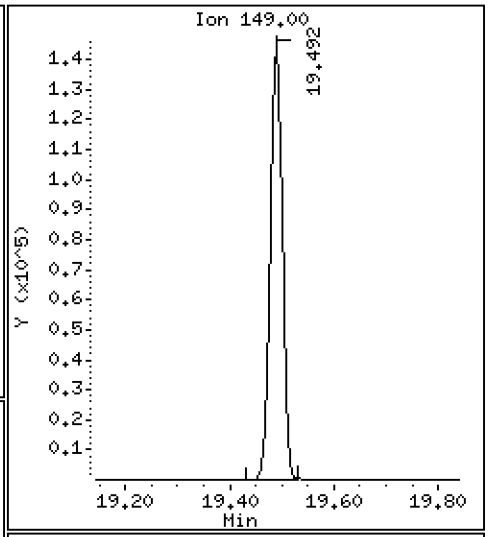
Concentration: 2.310 ug/mL

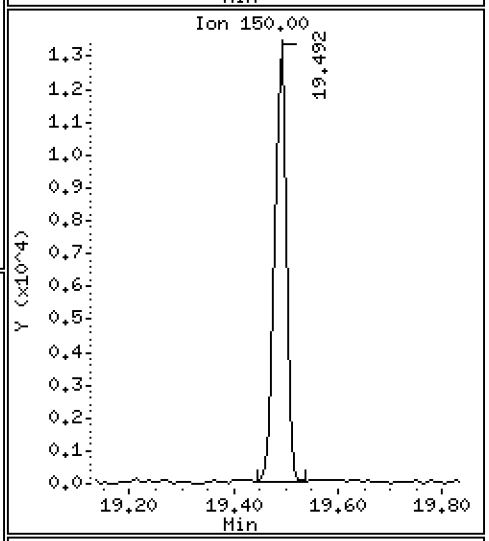


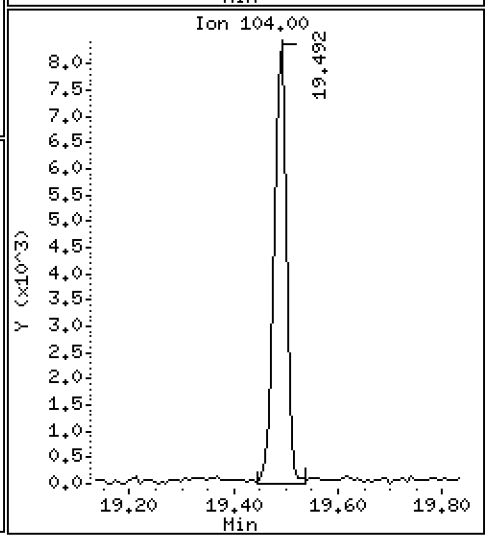












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

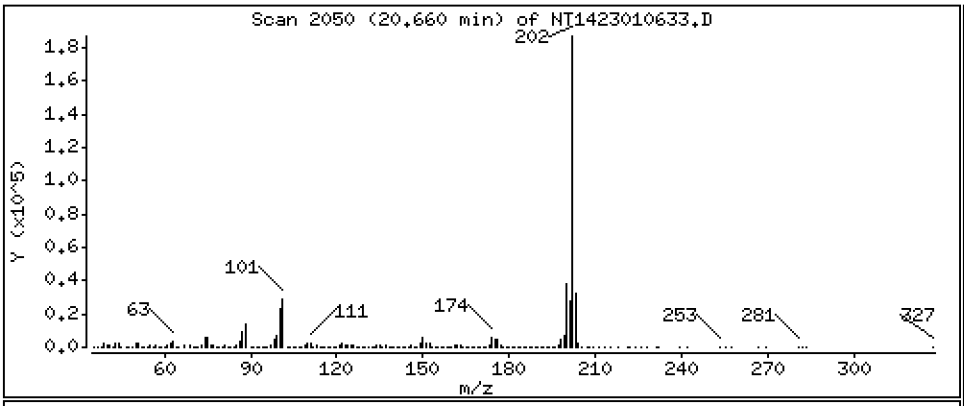
Operator: VTS

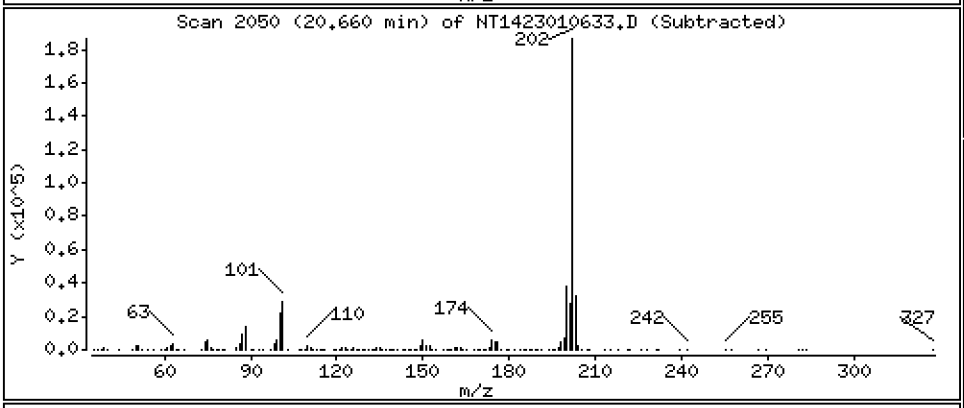
Column phase: ZB-5msi

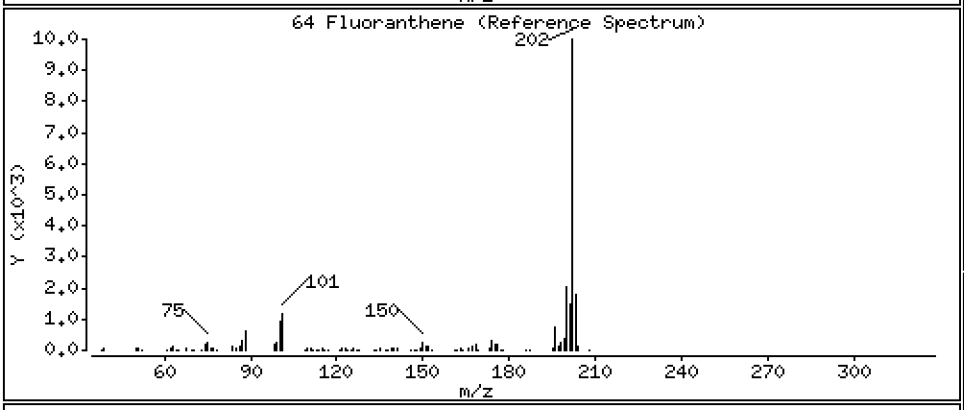
Column diameter: 0.25

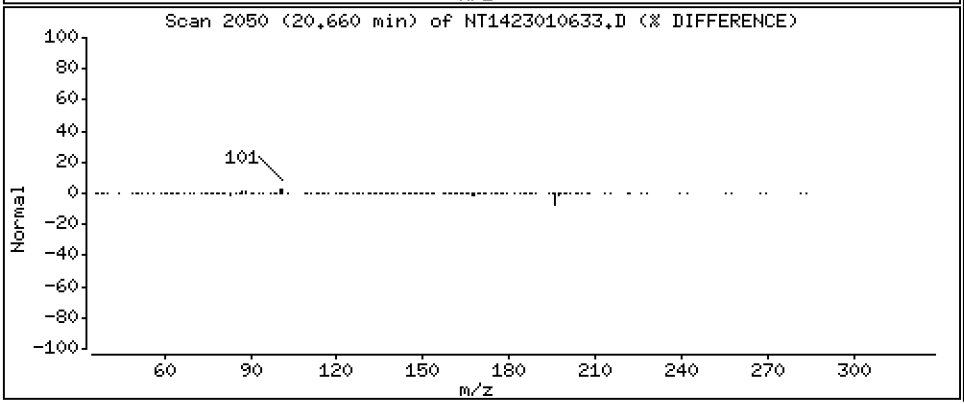
64 Fluoranthene

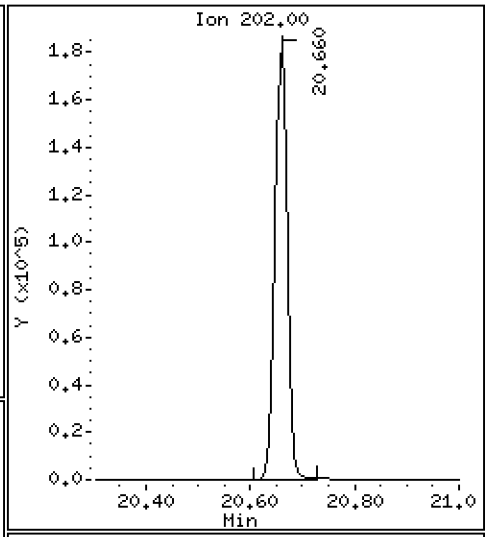
Concentration: 3.376 ug/mL

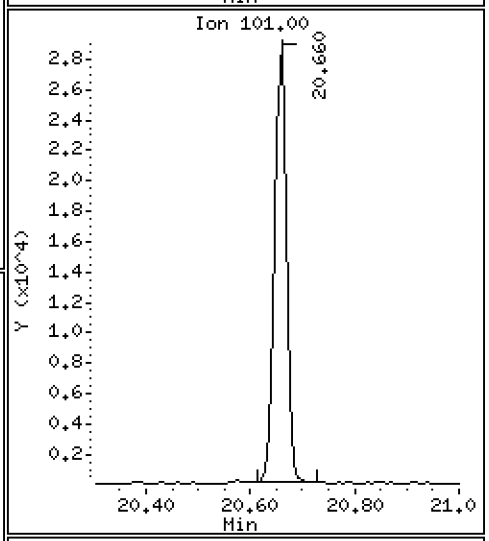


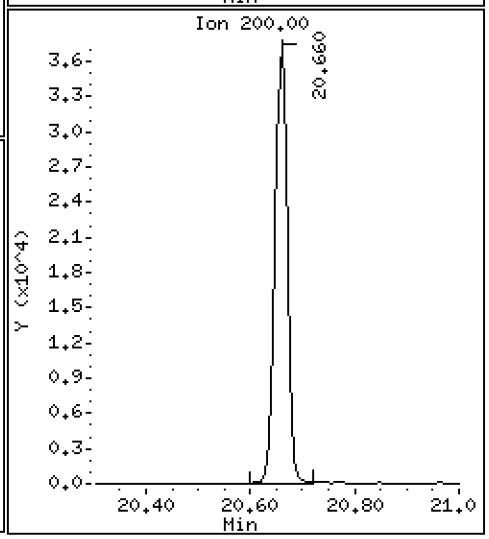












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

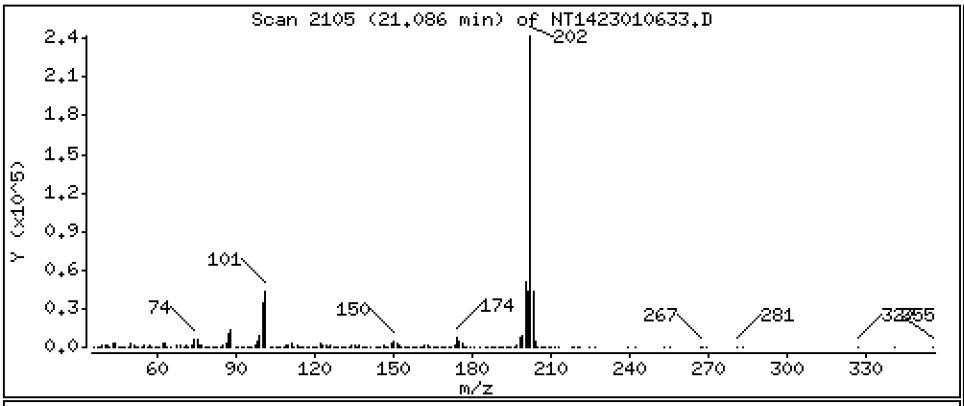
Operator: VTS

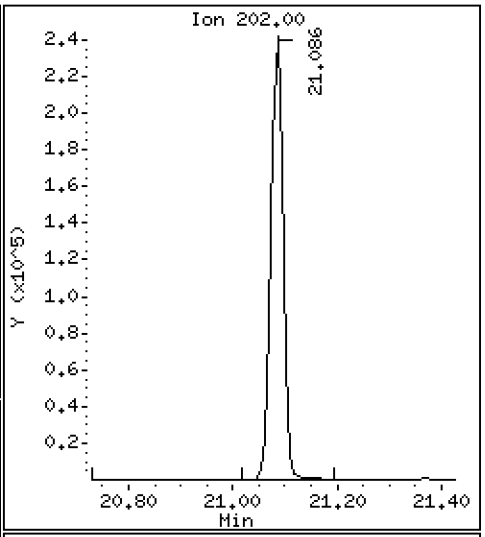
Column phase: ZB-5msi

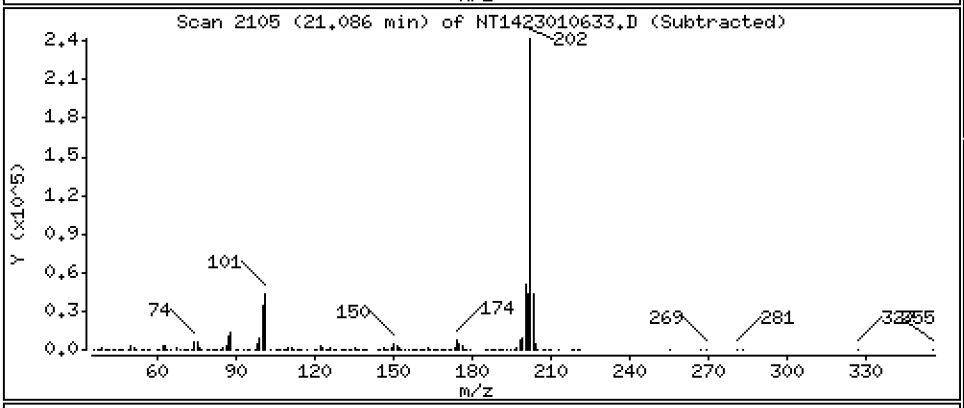
Column diameter: 0.25

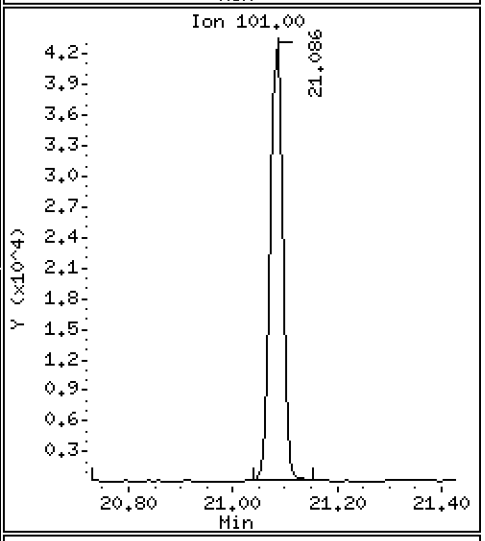
65 Pyrene

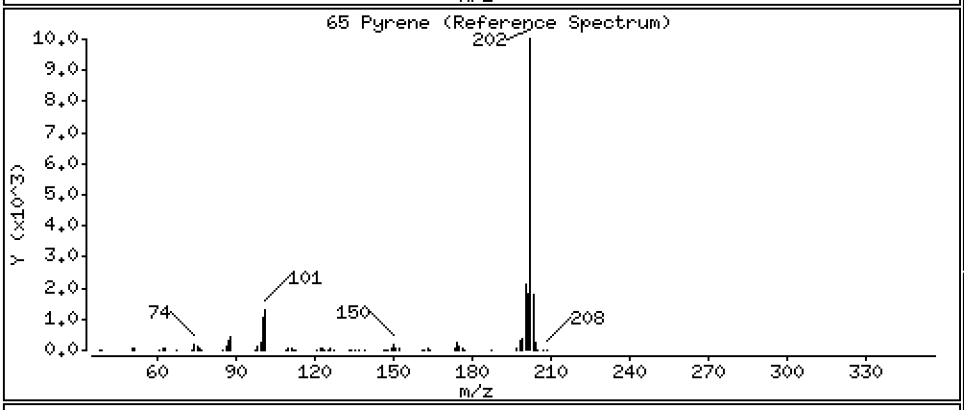
Concentration: 4.214 ug/mL

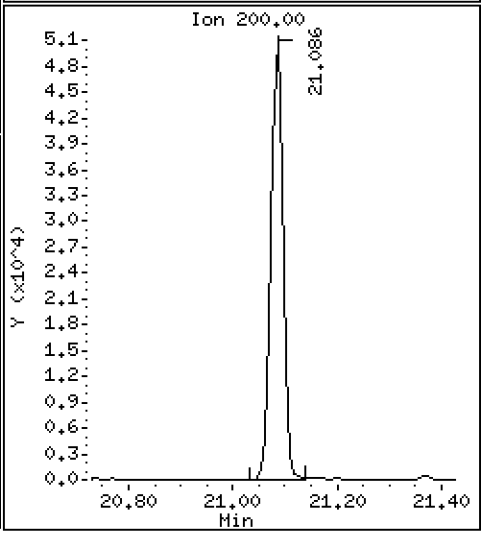


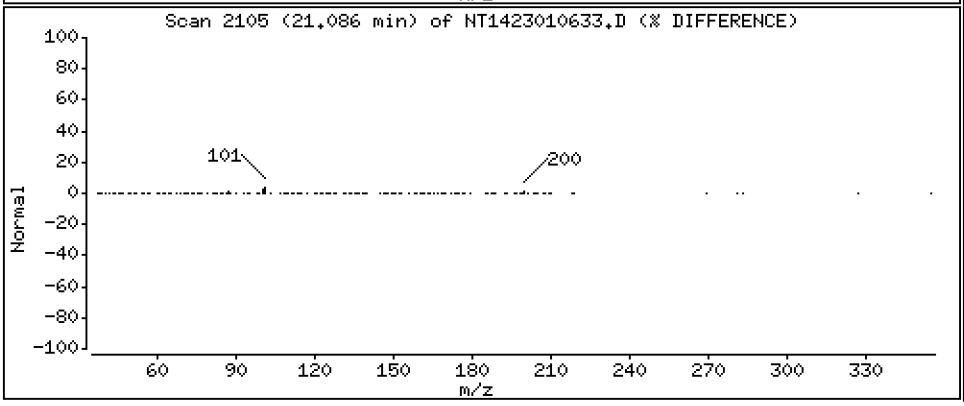












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

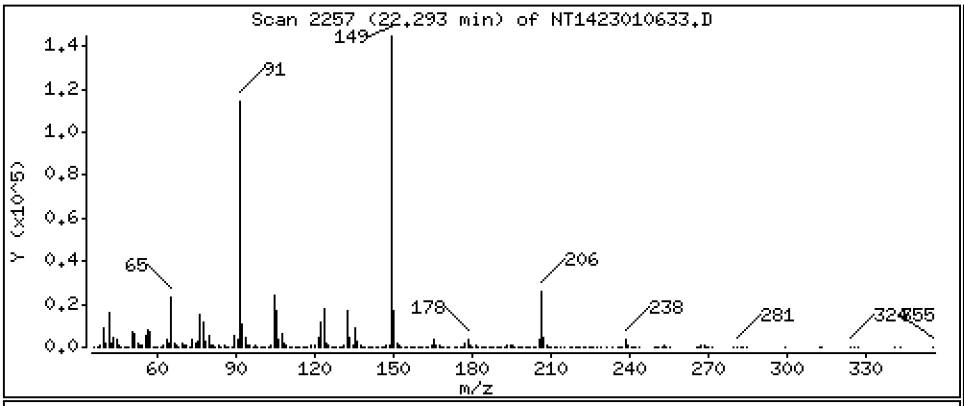
Operator: VTS

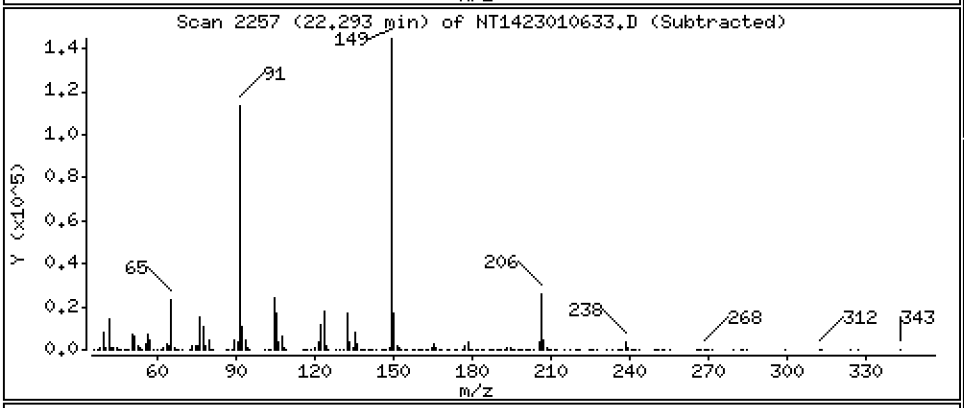
Column phase: ZB-5msi

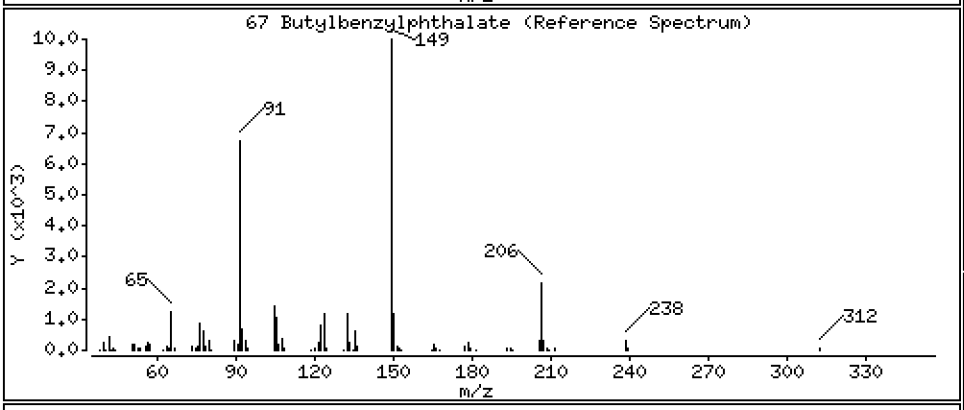
Column diameter: 0.25

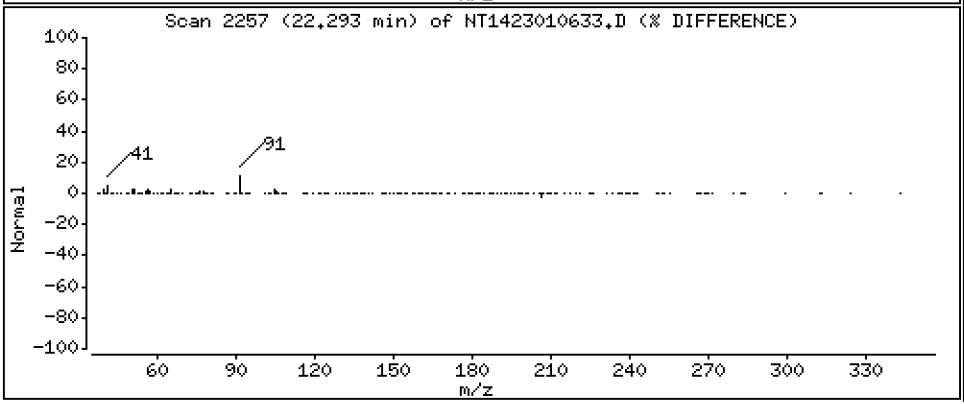
67 Butylbenzylphthalate

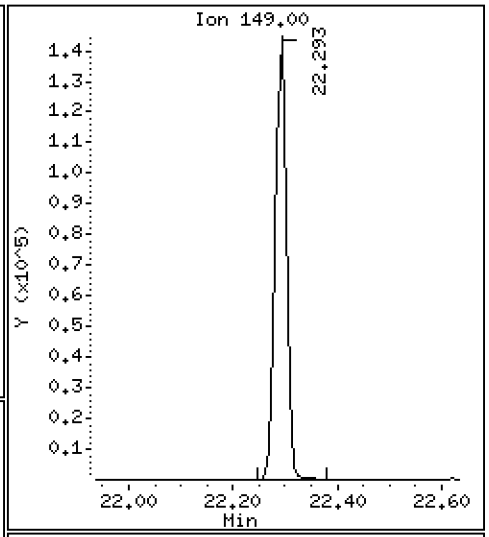
Concentration: 5.899 ug/mL

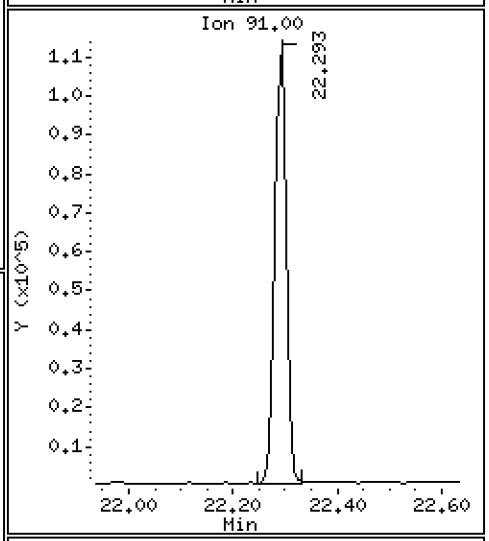


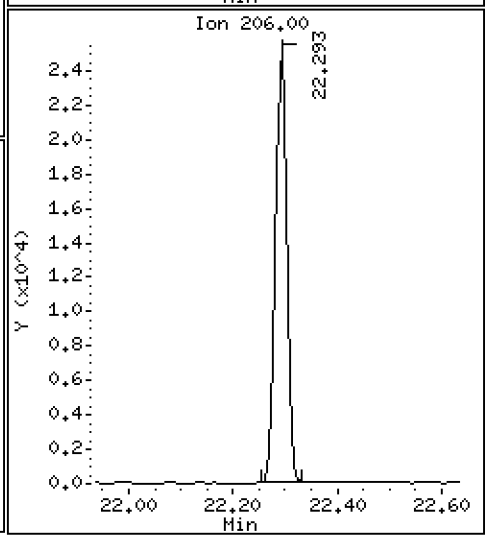












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

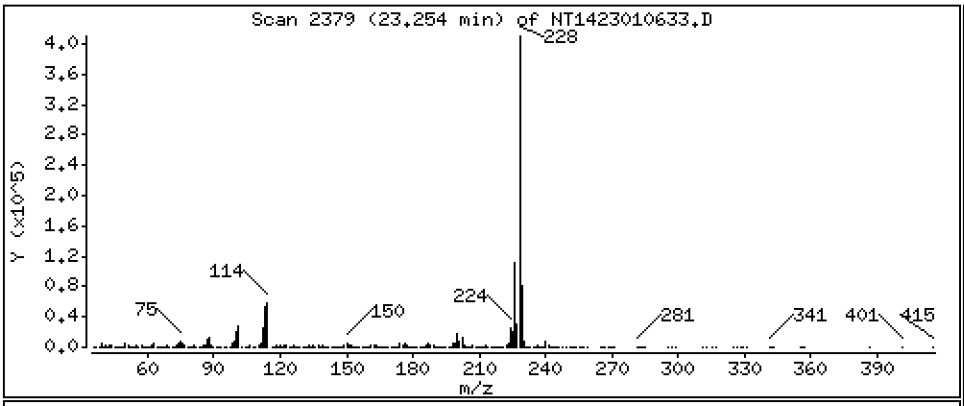
Operator: VTS

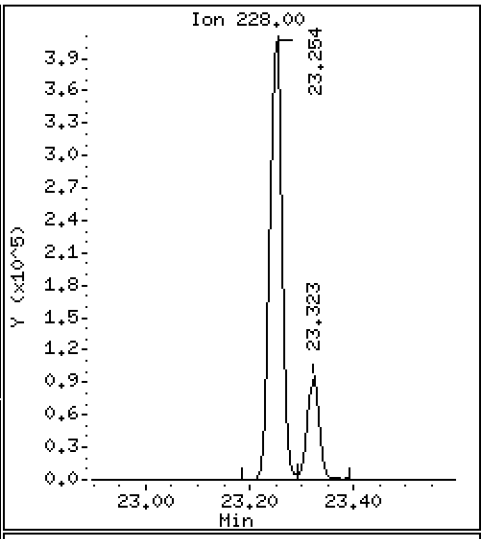
Column phase: ZB-5msi

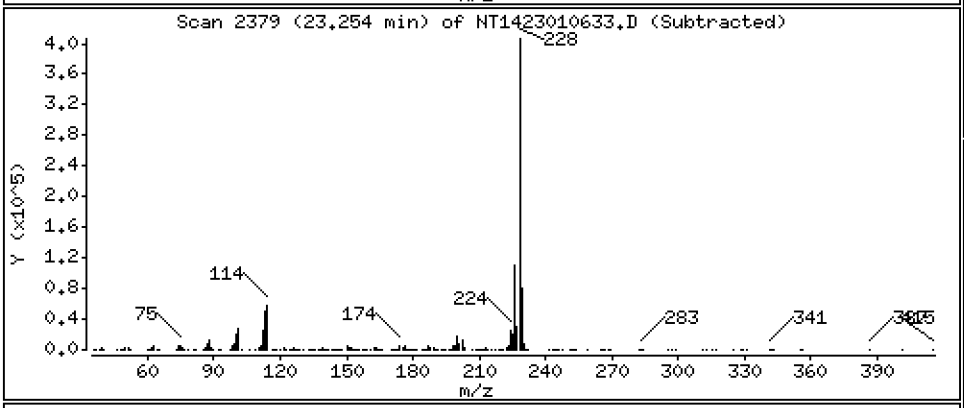
Column diameter: 0.25

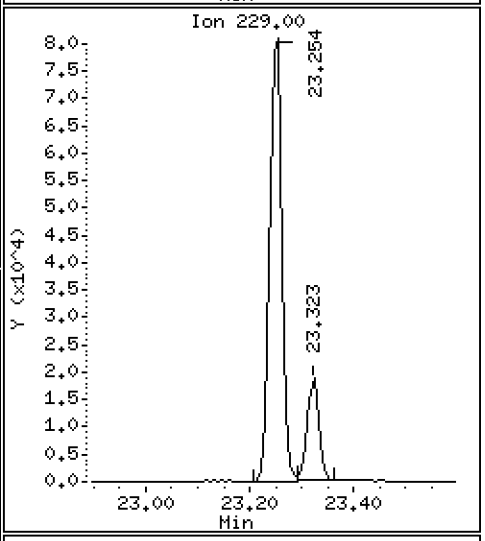
68 Benzo(a)anthracene

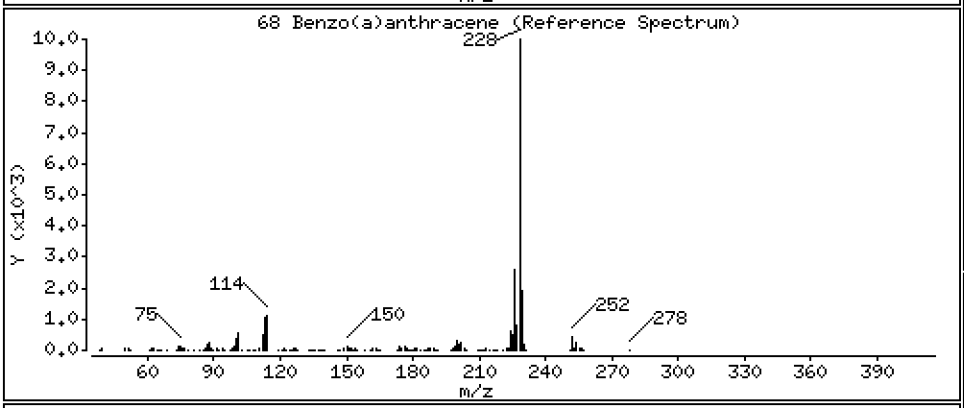
Concentration: 8.068 ug/mL

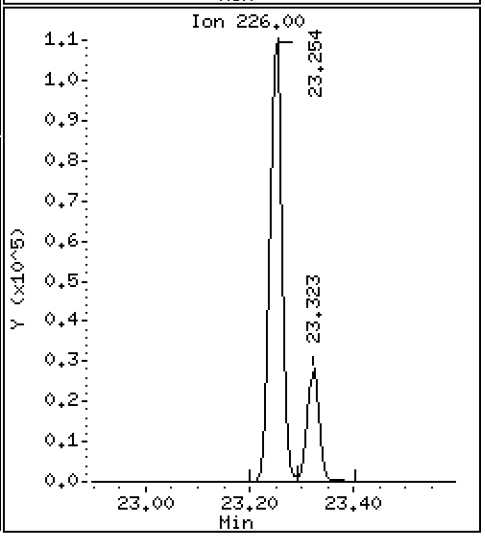


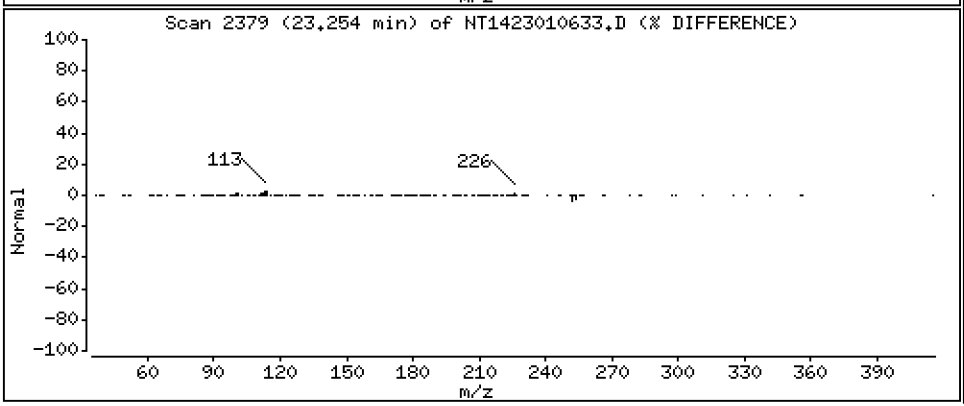












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

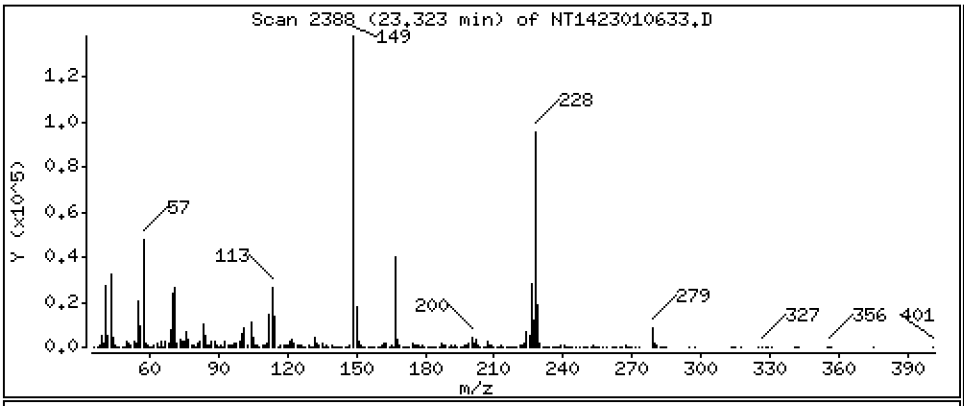
Operator: VTS

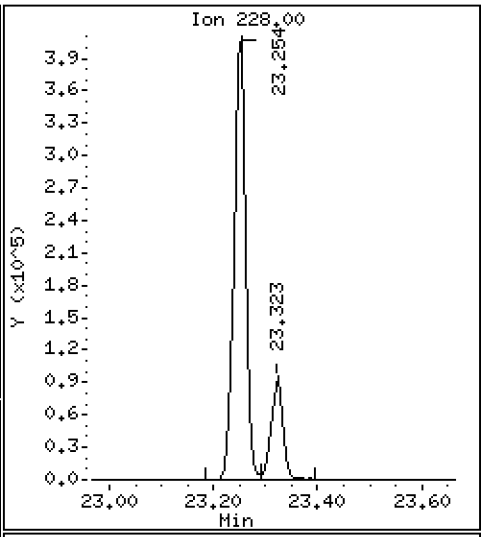
Column phase: ZB-5msi

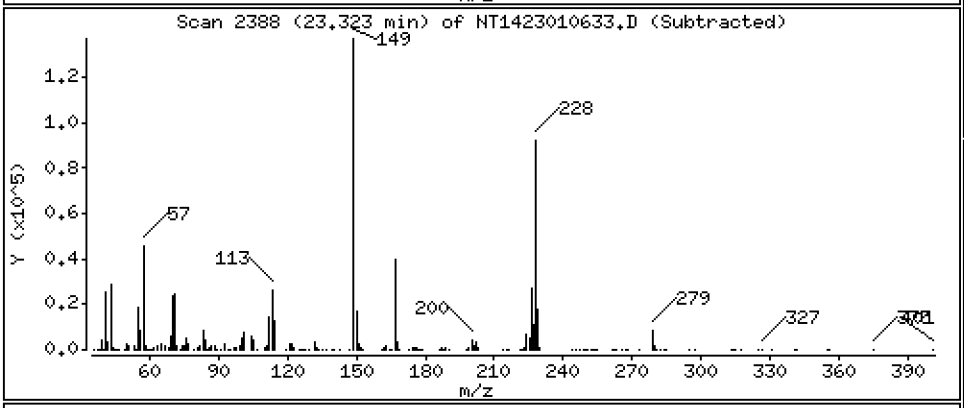
Column diameter: 0.25

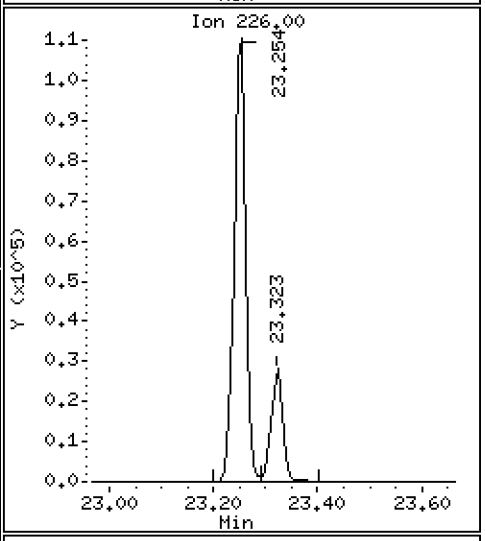
71 Chrysene

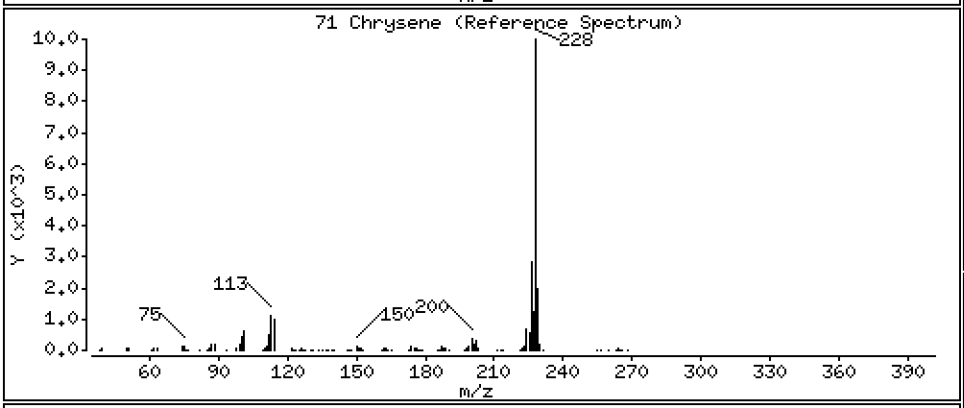
Concentration: 1.867 ug/mL

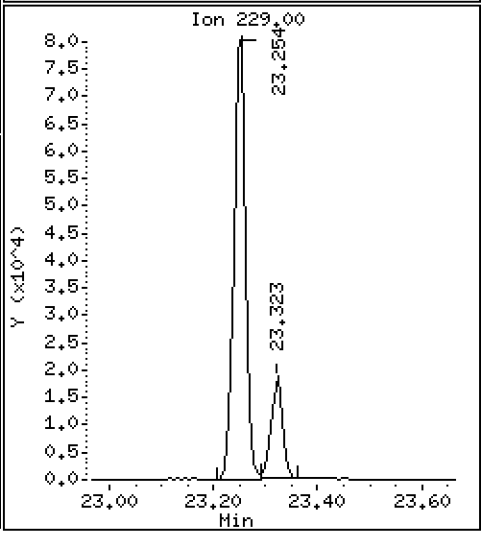


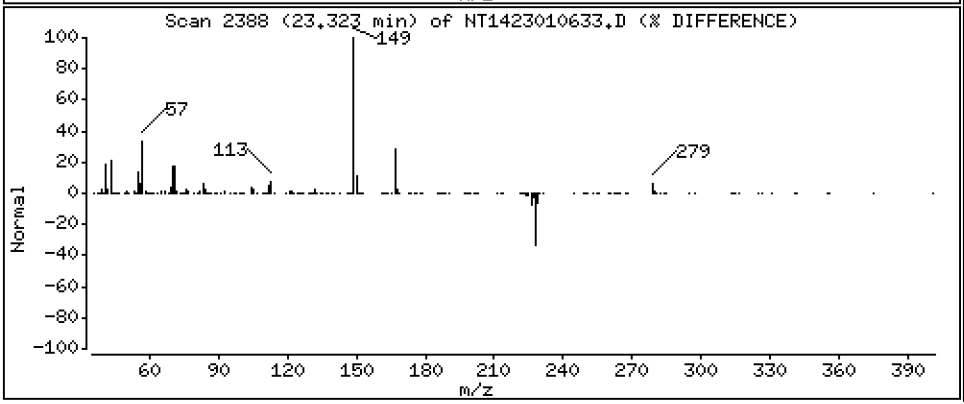












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

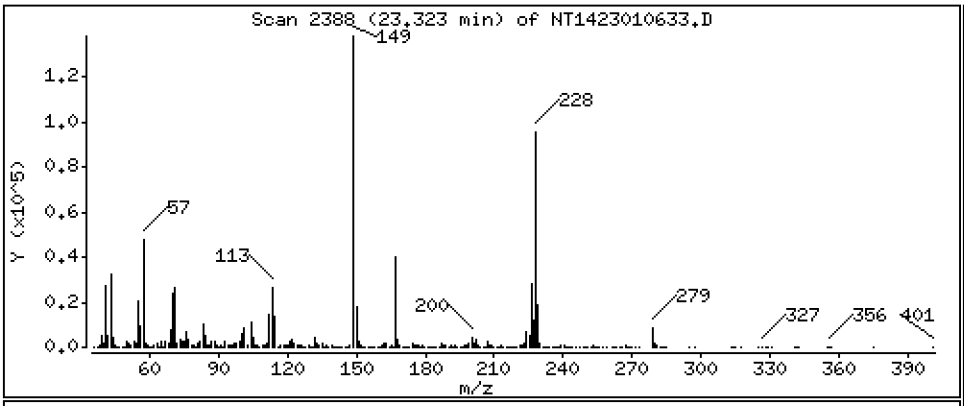
Operator: VTS

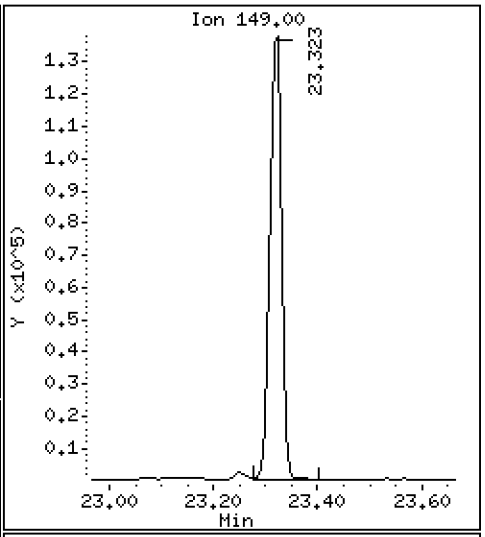
Column phase: ZB-5msi

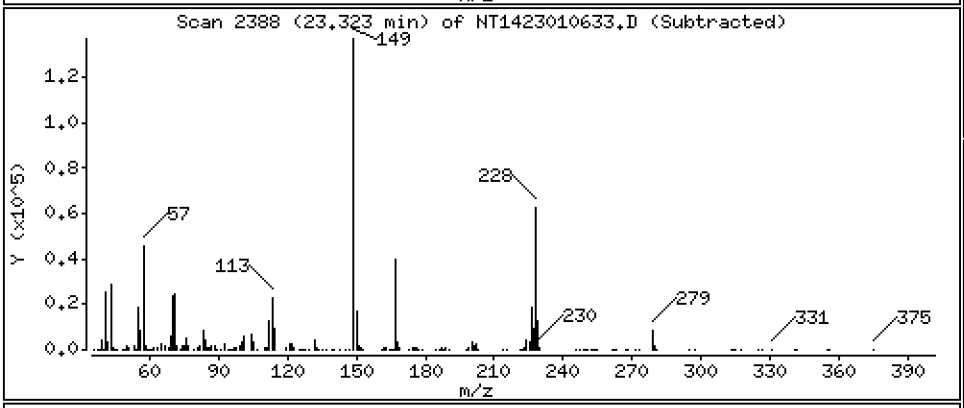
Column diameter: 0.25

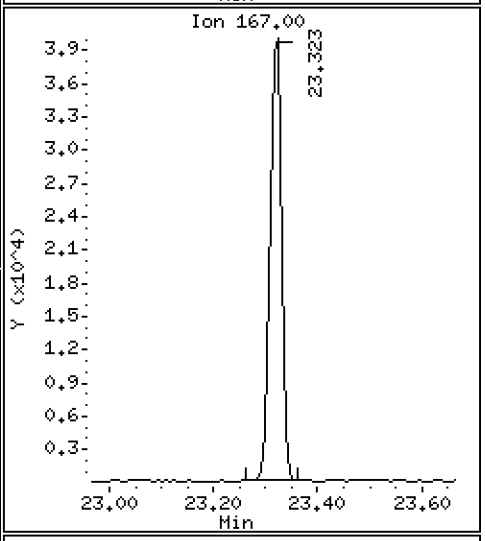
72 bis(2-Ethylhexyl)phthalate

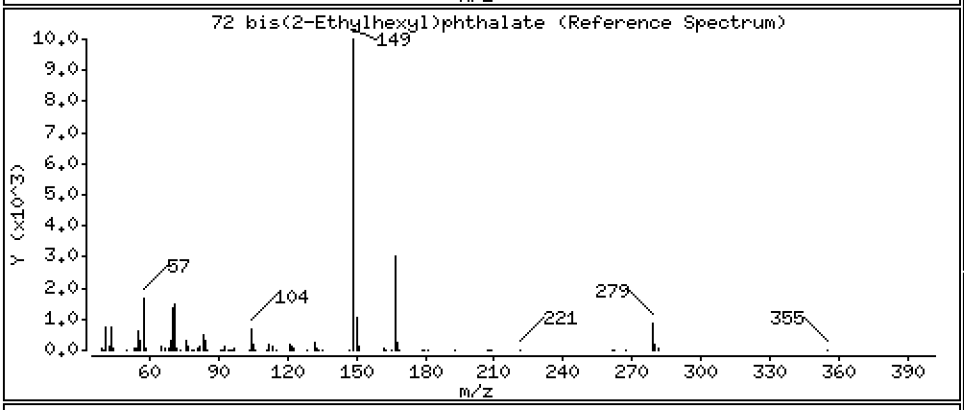
Concentration: 3.588 ug/mL

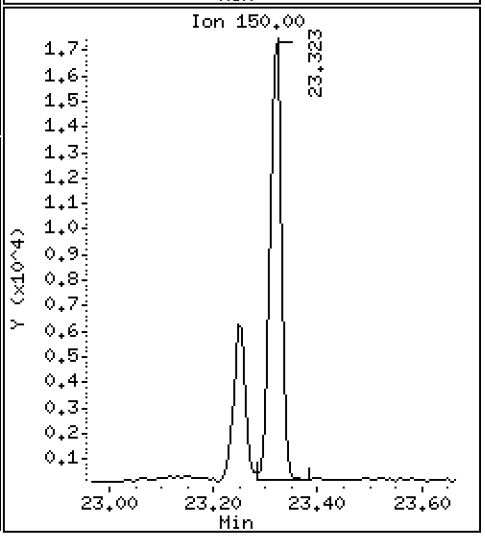


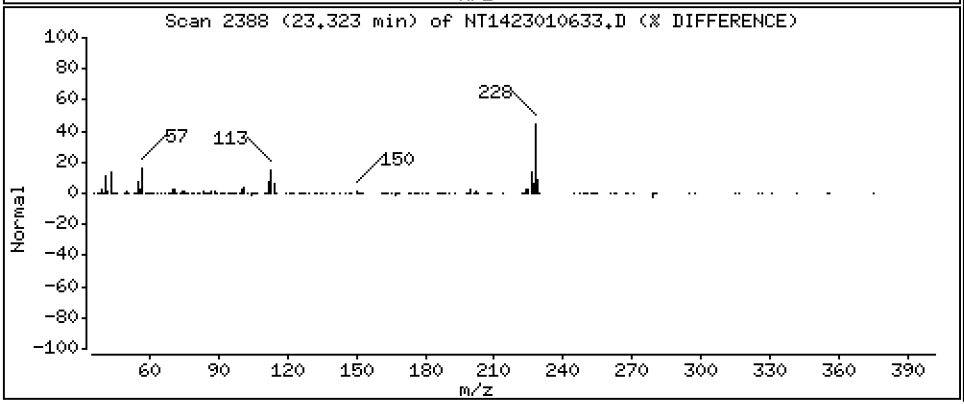












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

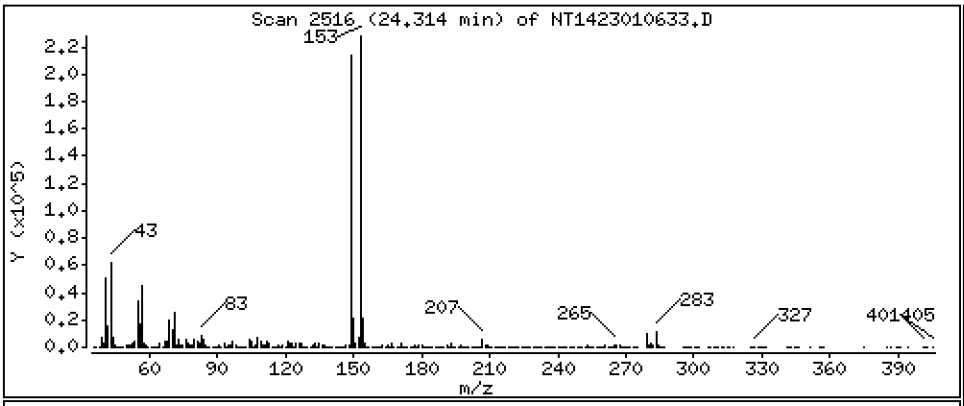
Operator: VTS

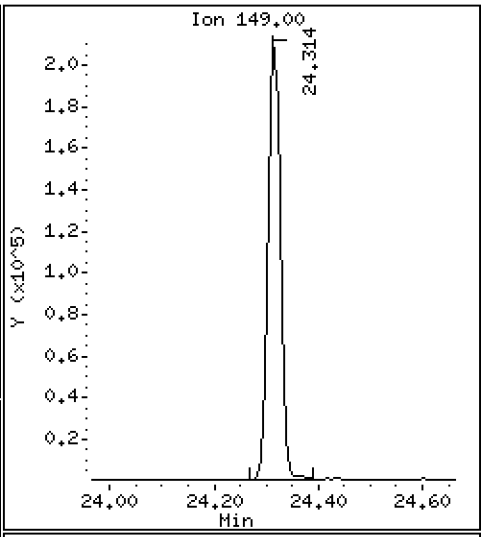
Column phase: ZB-5msi

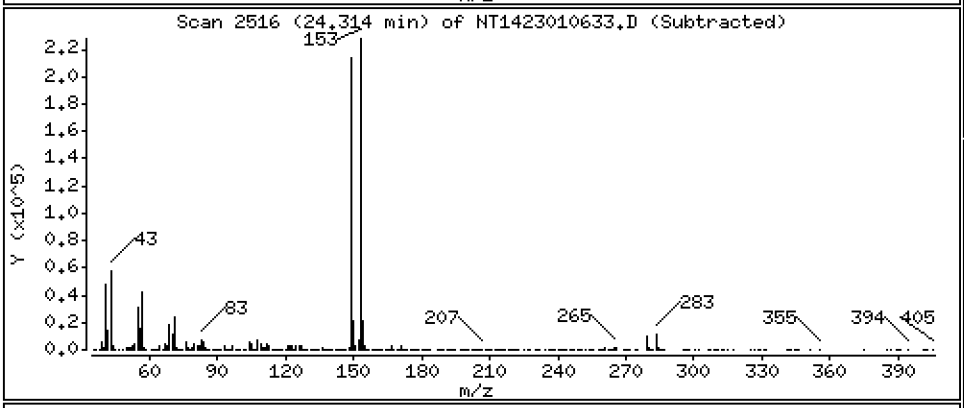
Column diameter: 0.25

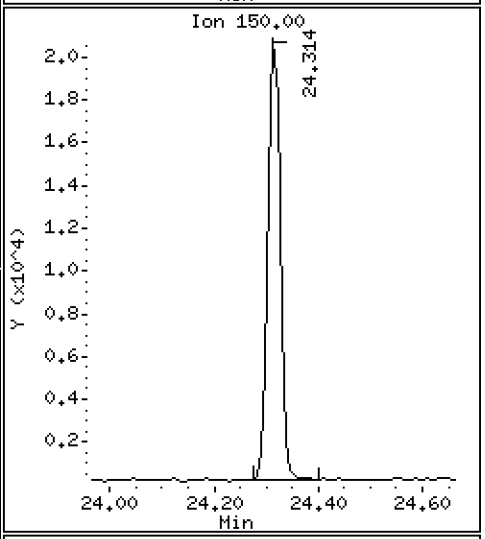
73 Di-n-octylphthalate

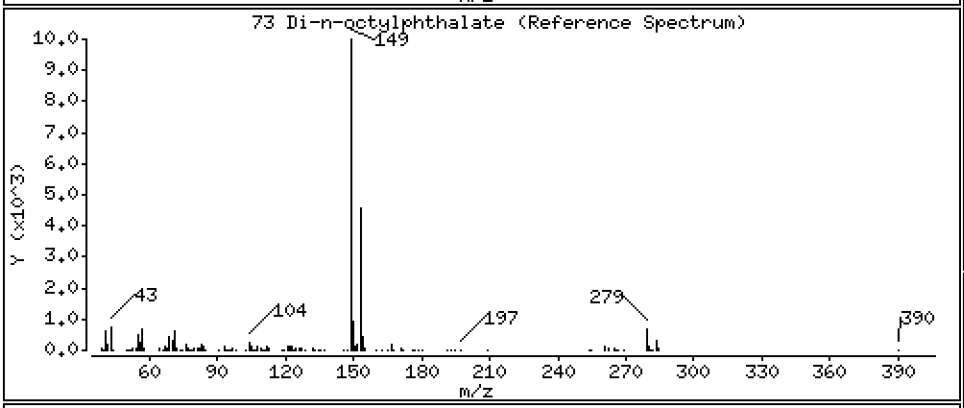
Concentration: 2.648 ug/mL

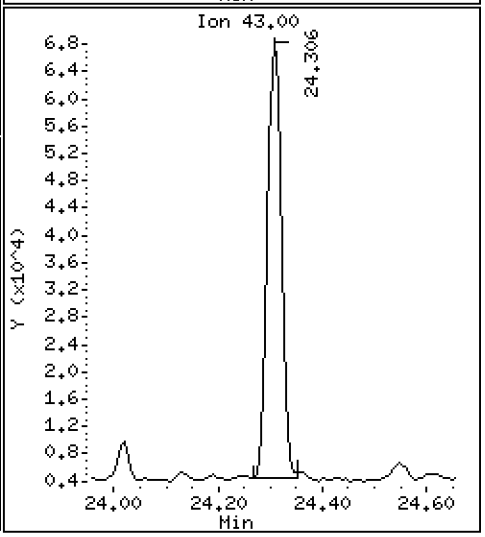


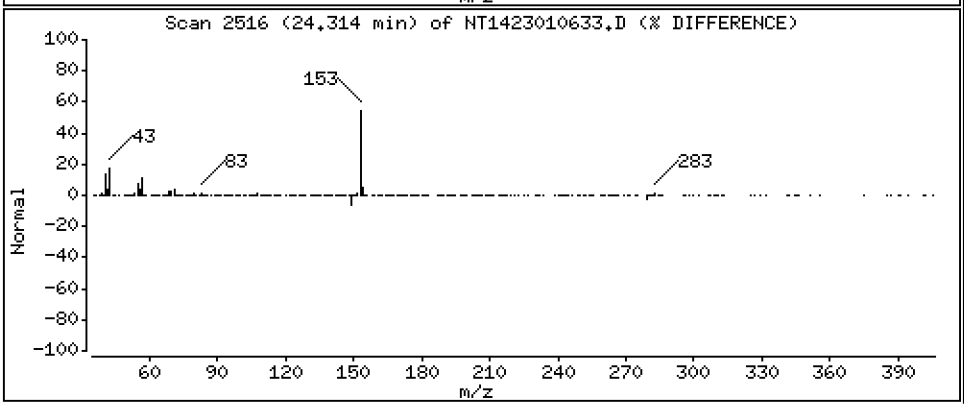












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

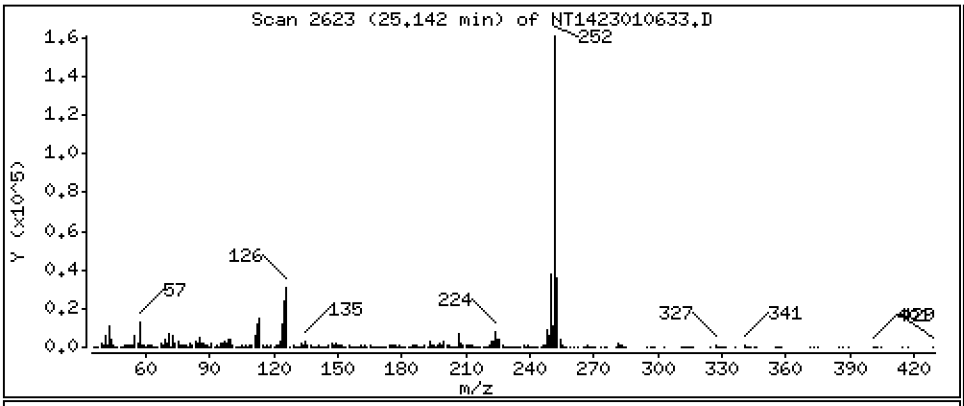
Operator: VTS

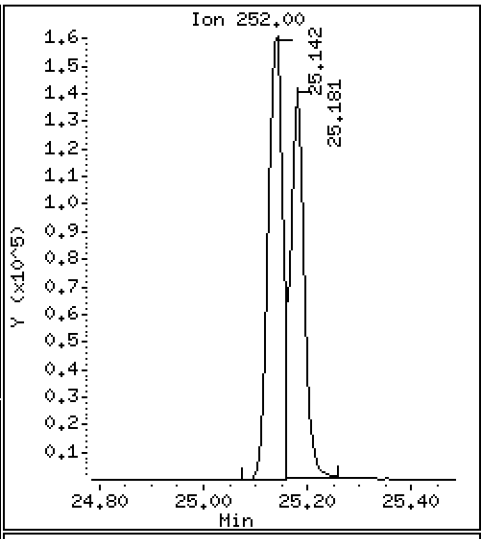
Column phase: ZB-5msi

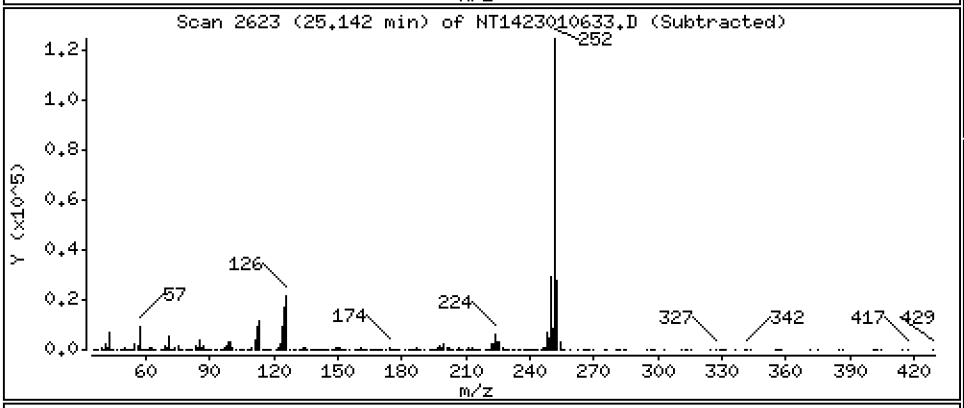
Column diameter: 0.25

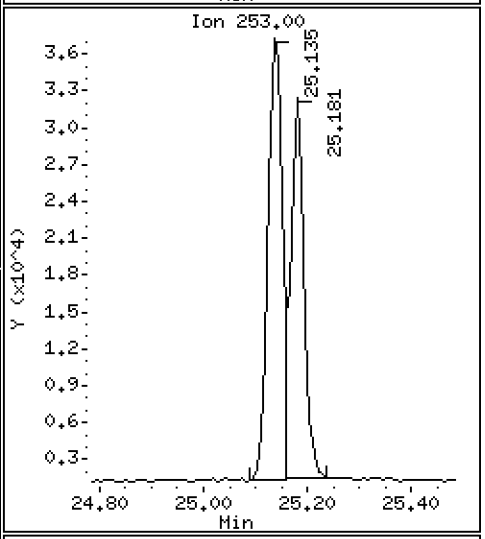
74 Benzo(b)fluoranthene

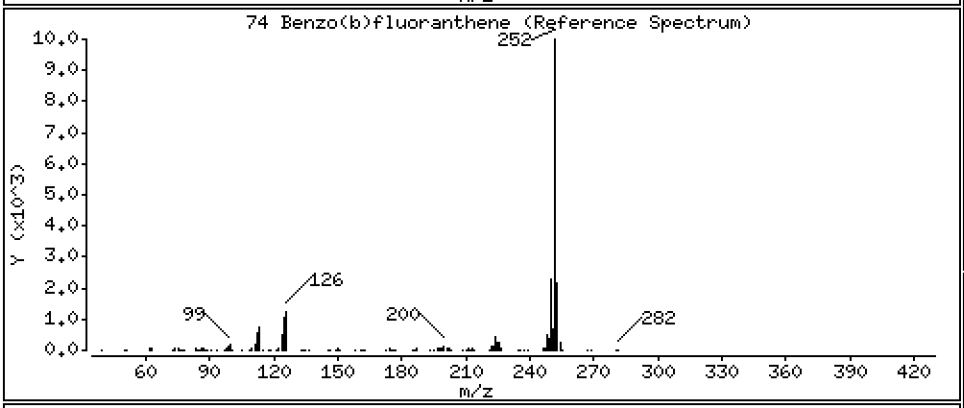
Concentration: 3.486 ug/mL

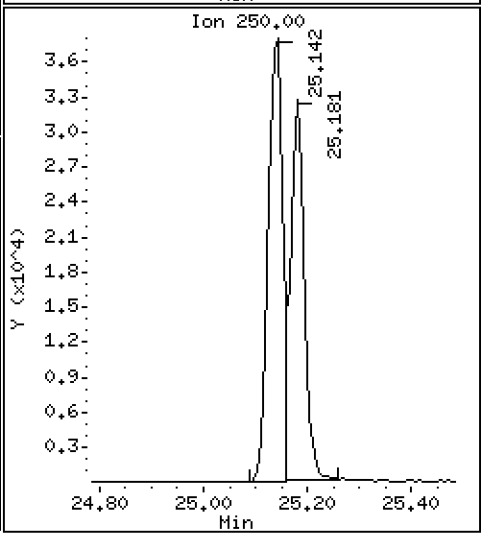


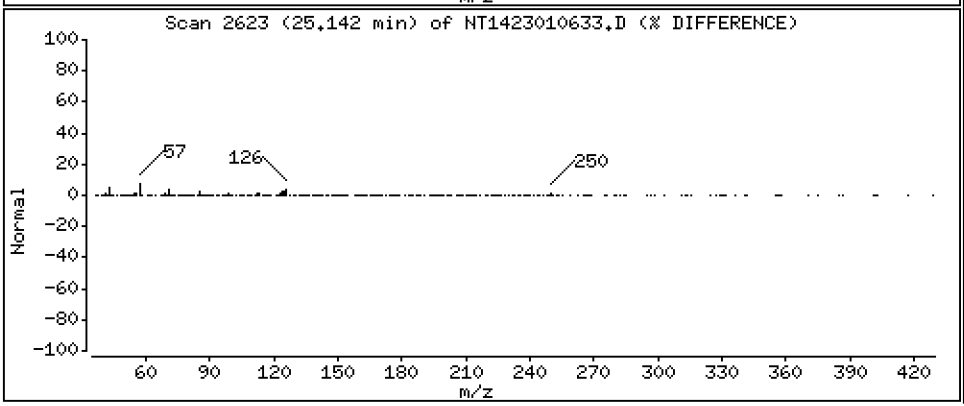












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

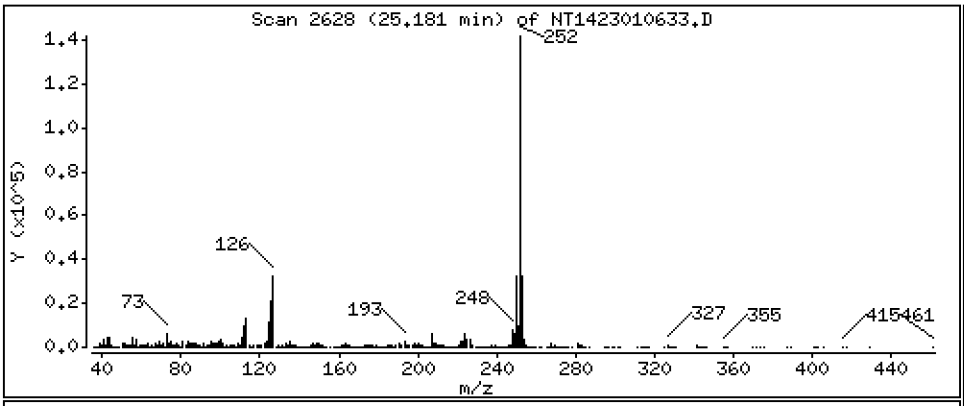
Operator: VTS

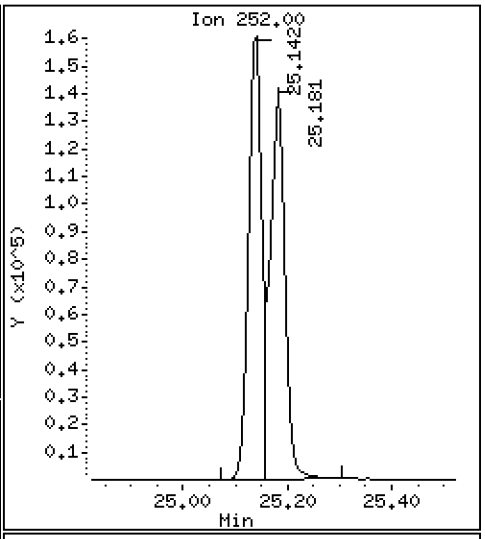
Column phase: ZB-5msi

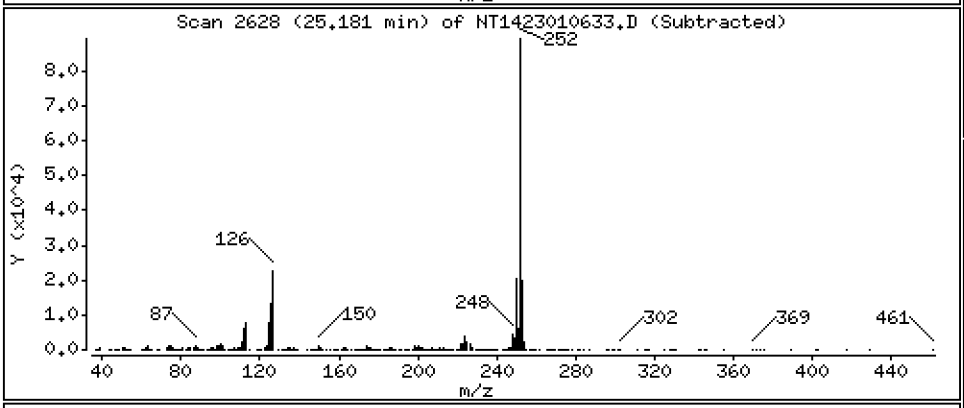
Column diameter: 0.25

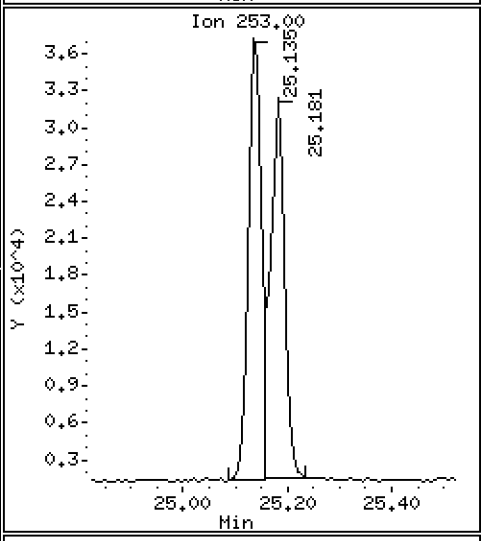
75 Benzo(k)fluoranthene

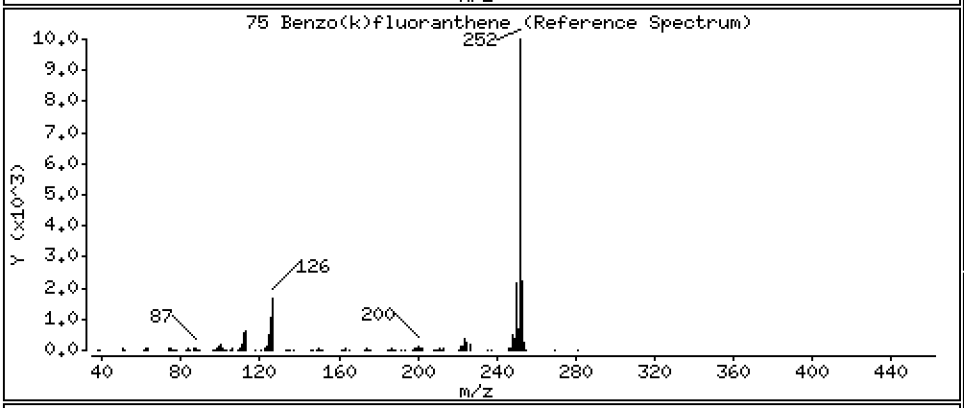
Concentration: 3.194 ug/mL

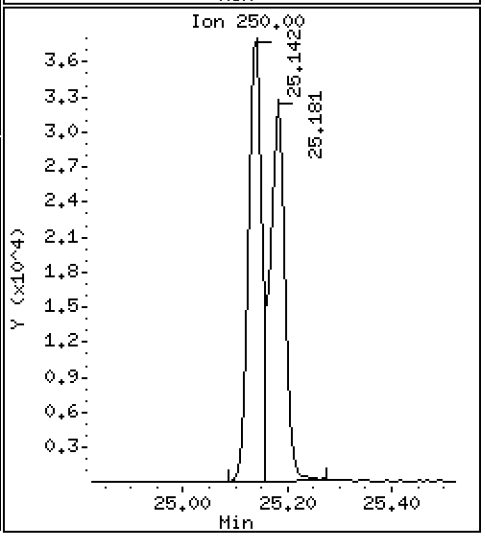


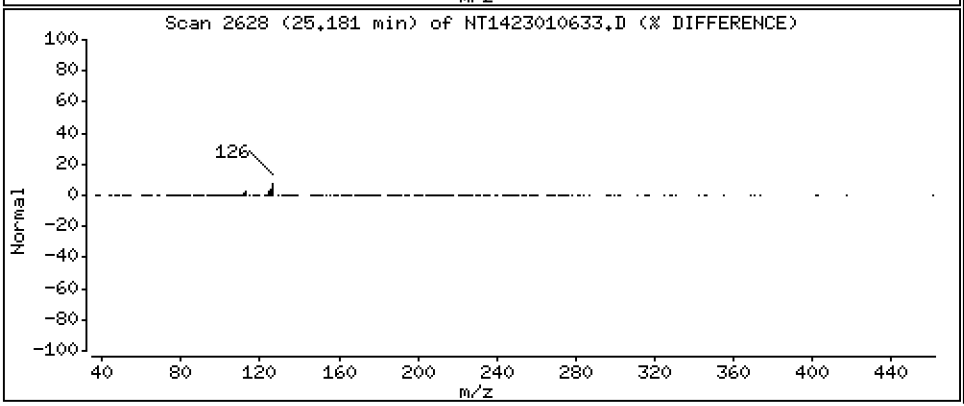












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

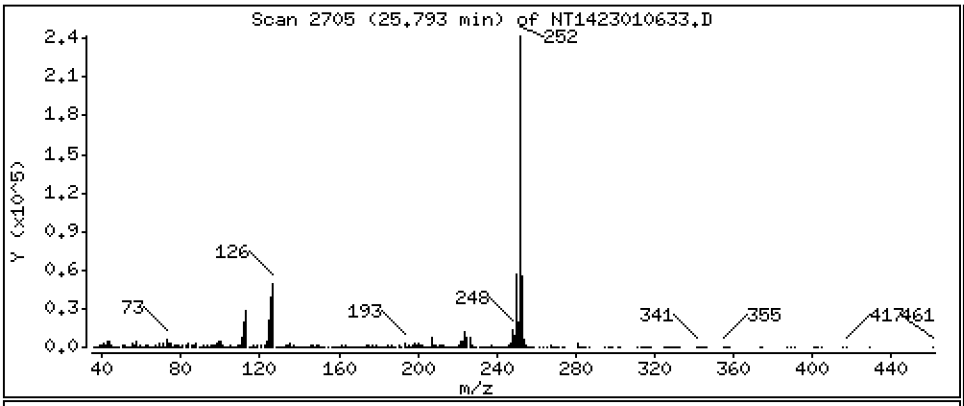
Operator: VTS

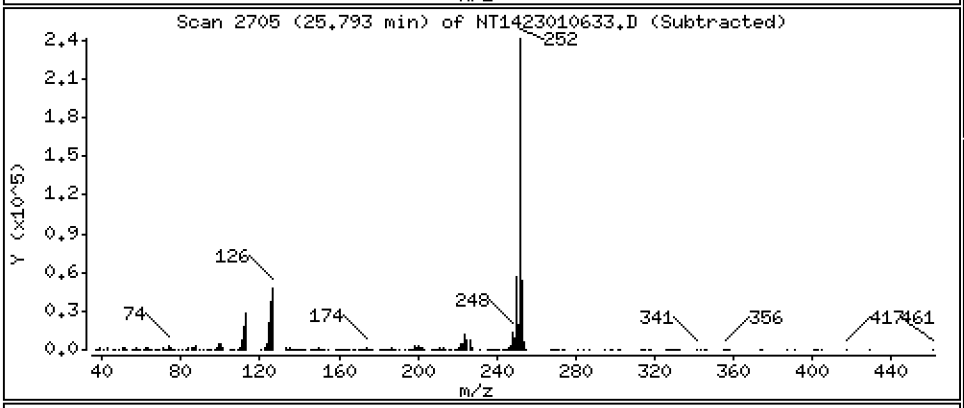
Column phase: ZB-5msi

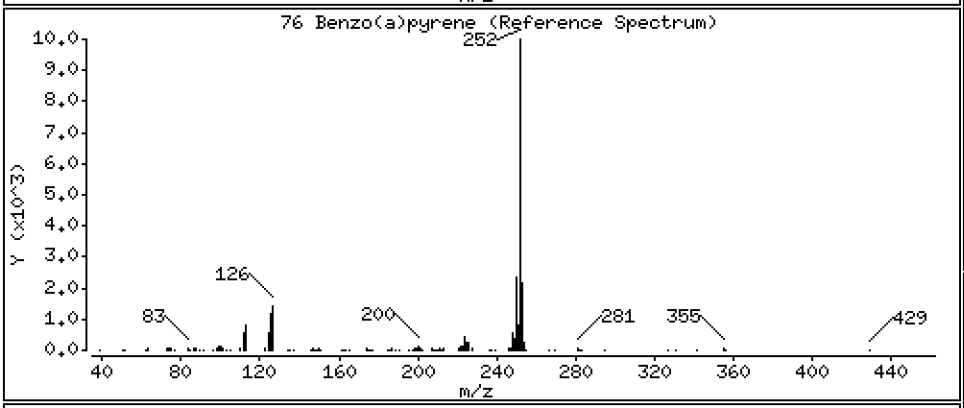
Column diameter: 0.25

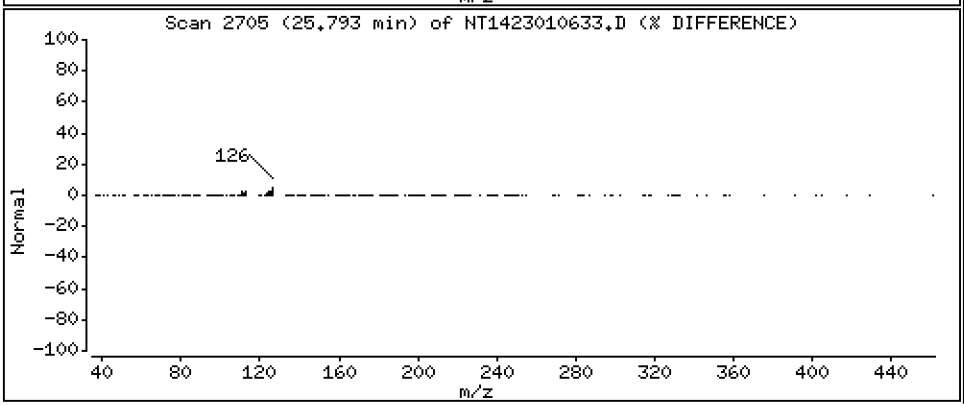
76 Benzo(a)pyrene

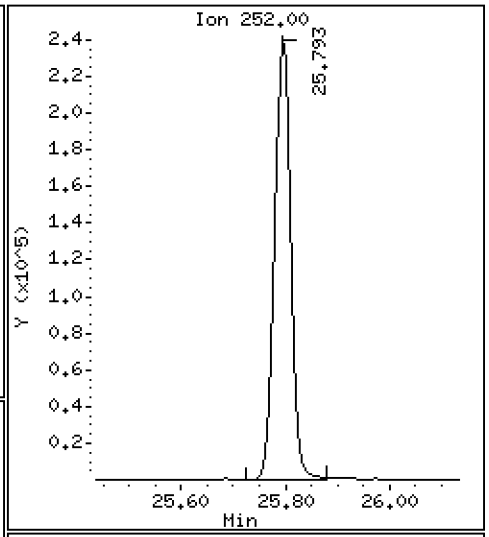
Concentration: 6.880 ug/mL

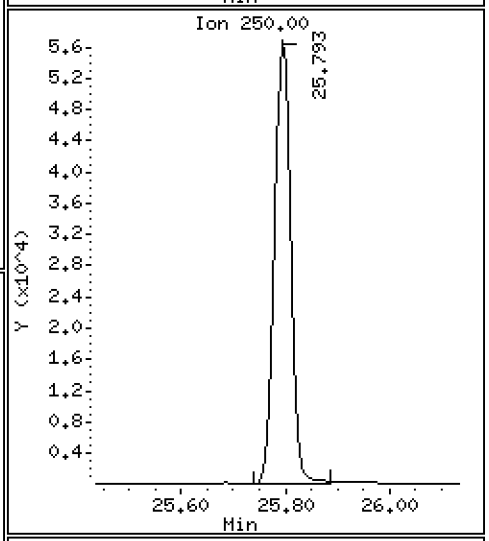


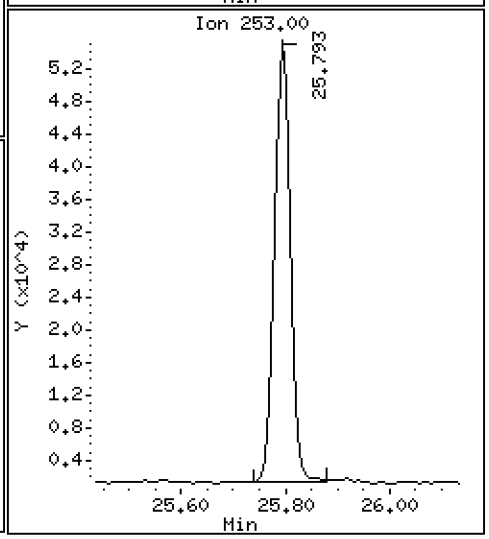












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

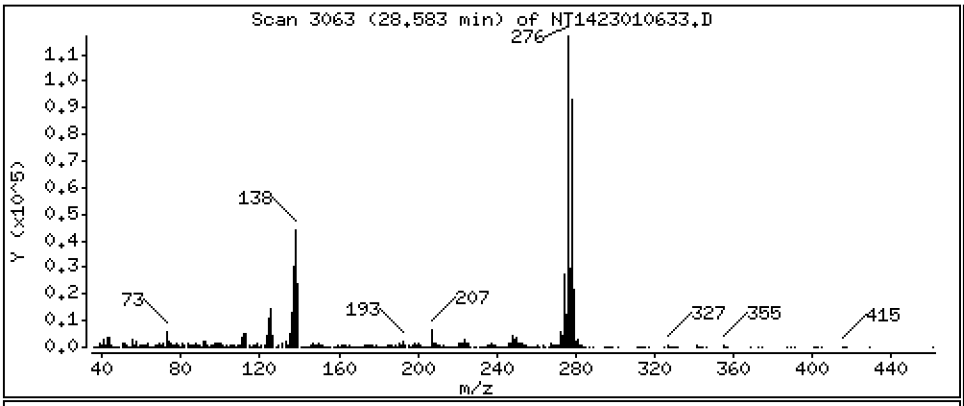
Operator: VTS

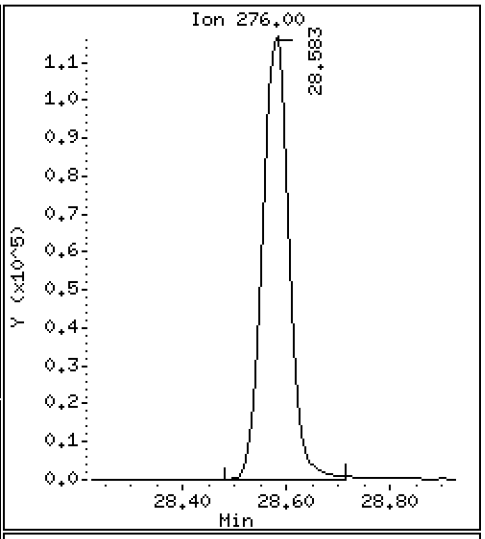
Column phase: ZB-5msi

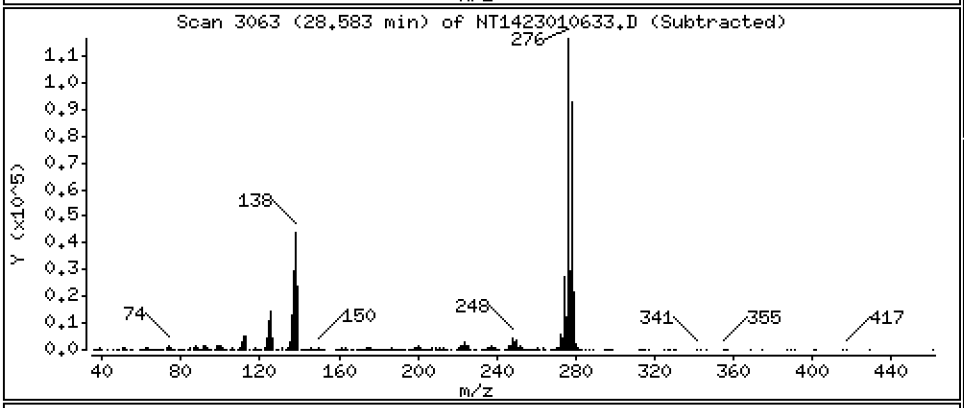
Column diameter: 0.25

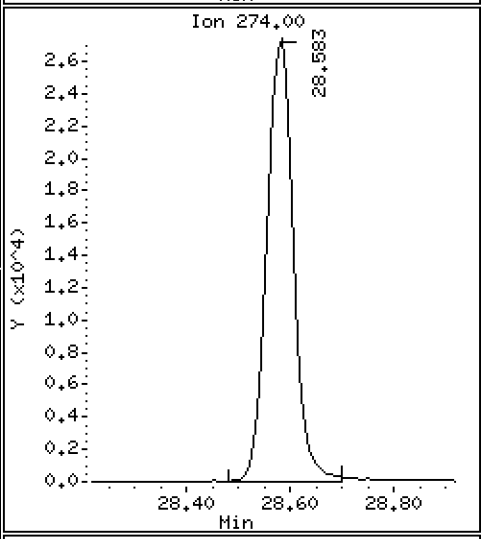
78 Indeno(1,2,3-cd)pyrene

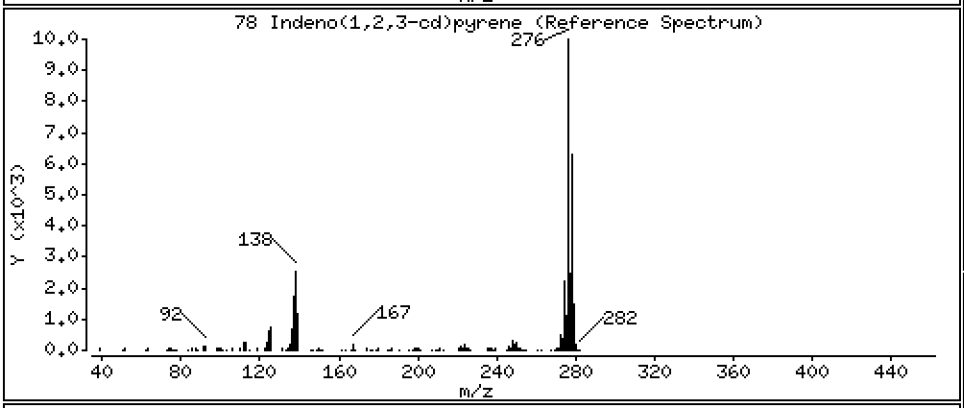
Concentration: 5.005 ug/mL

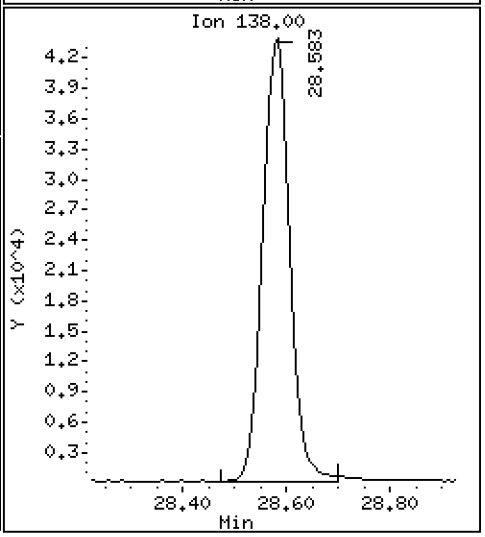


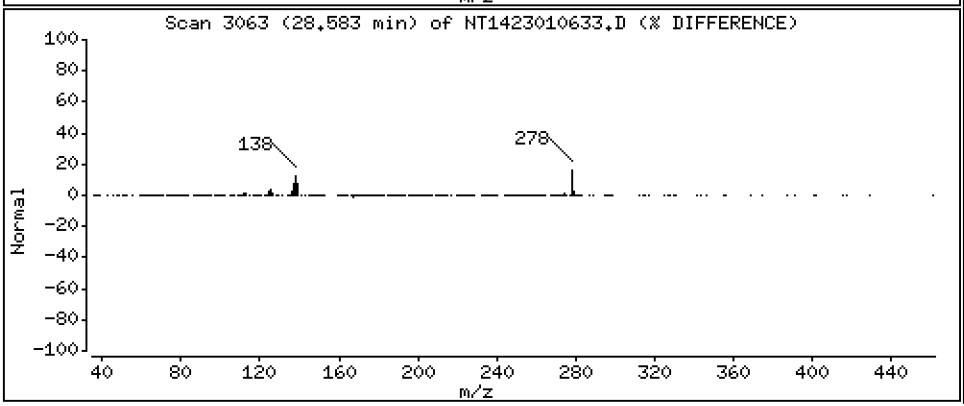












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

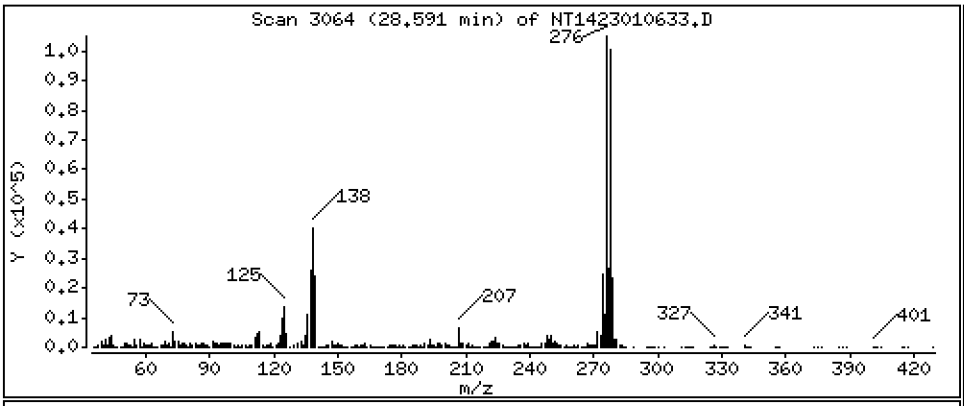
Operator: VTS

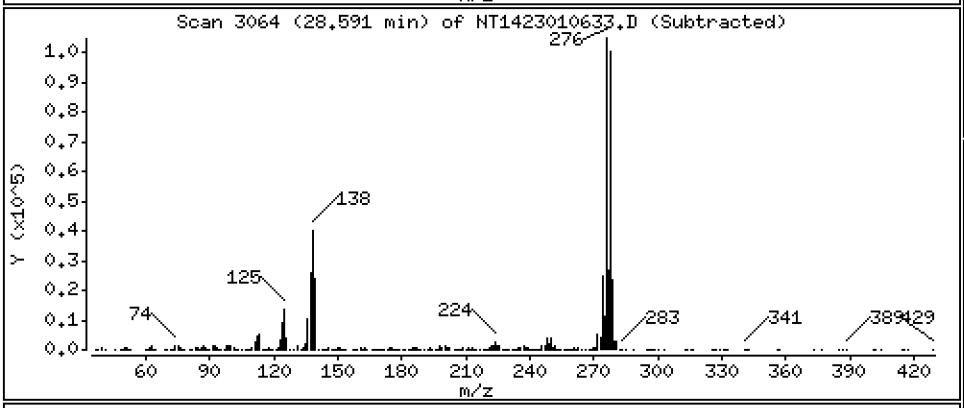
Column phase: ZB-5msi

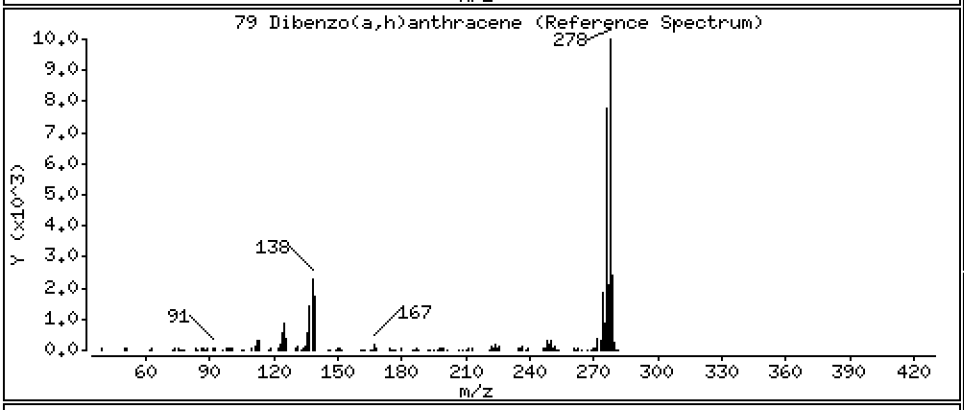
Column diameter: 0.25

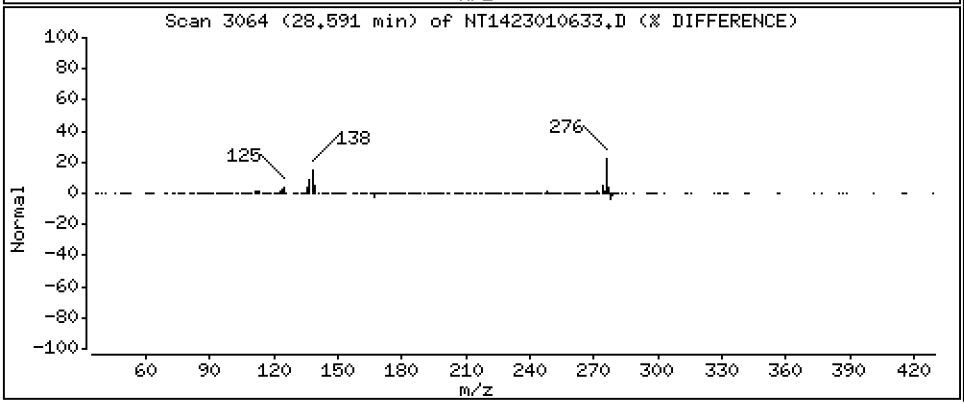
79 Dibenzo(a,h)anthracene

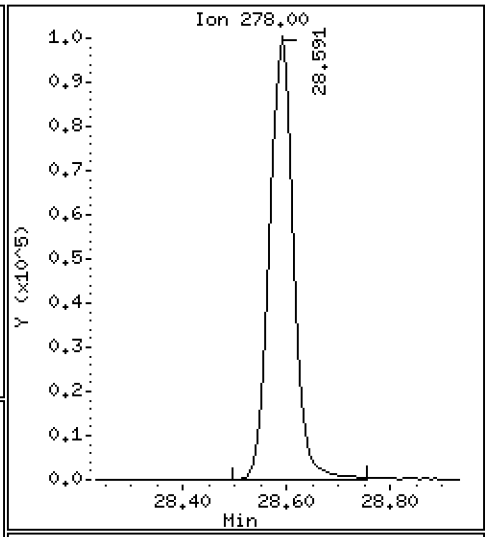
Concentration: 4.576 ug/mL

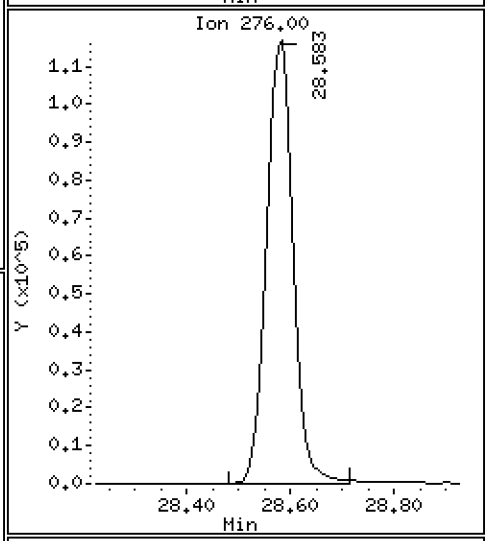


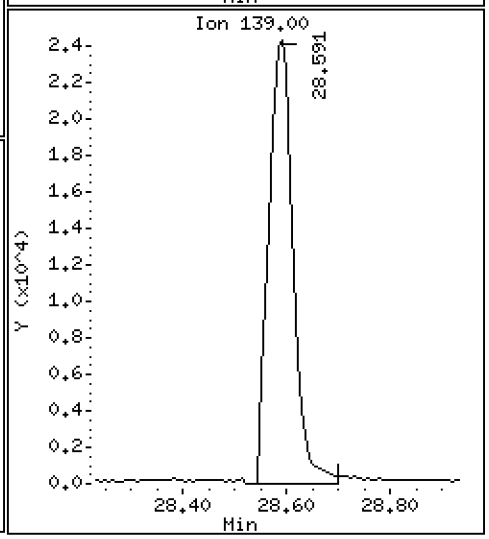












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

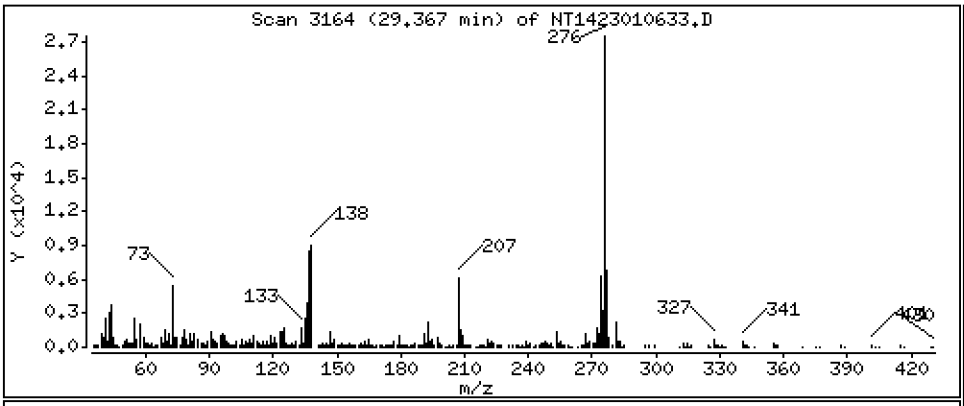
Operator: VTS

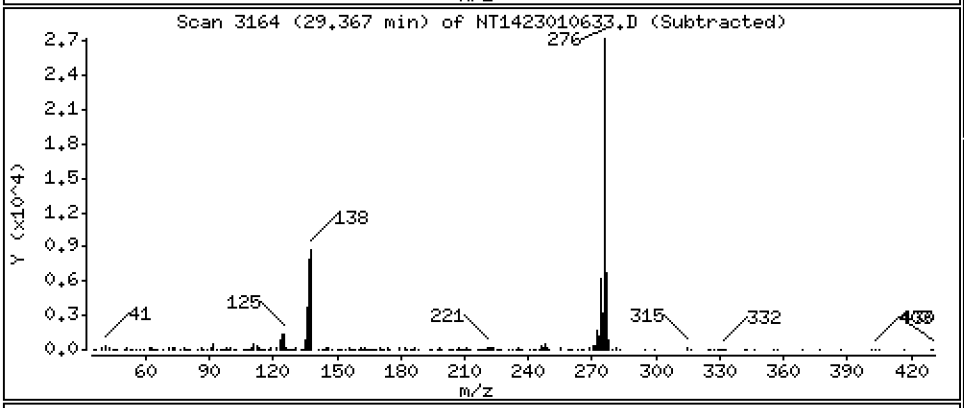
Column phase: ZB-5msi

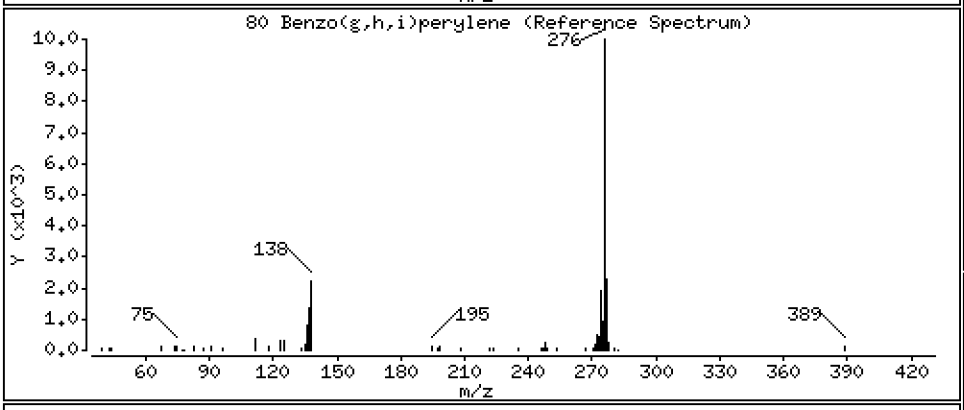
Column diameter: 0.25

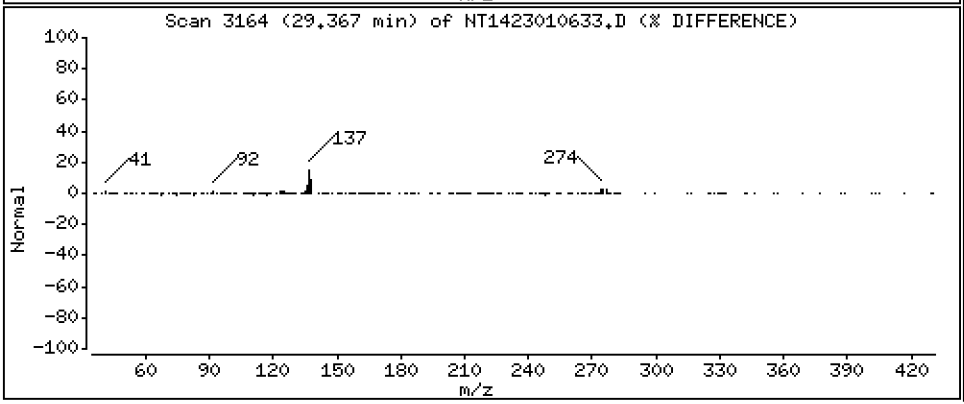
80 Benzo(g,h,i)perylene

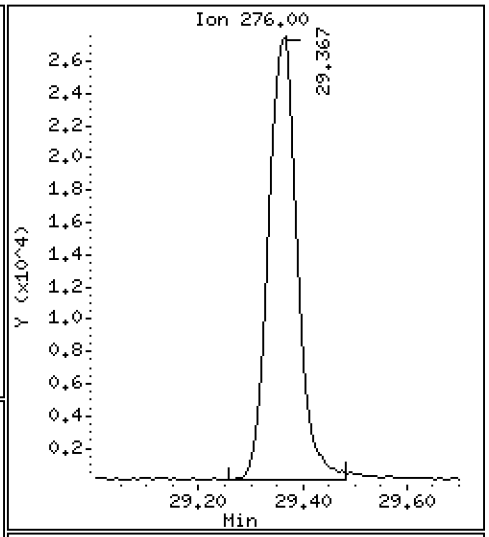
Concentration: 1.529 ug/mL

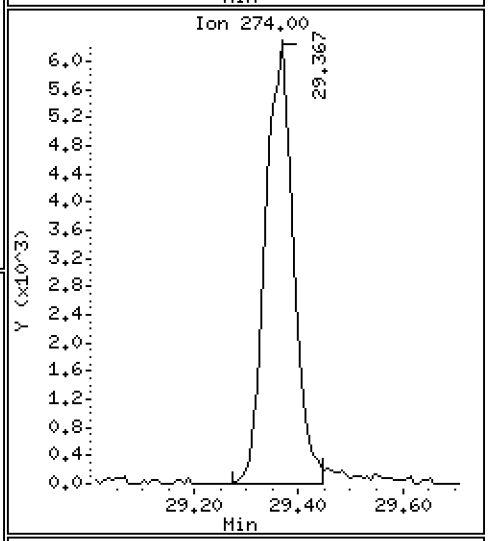


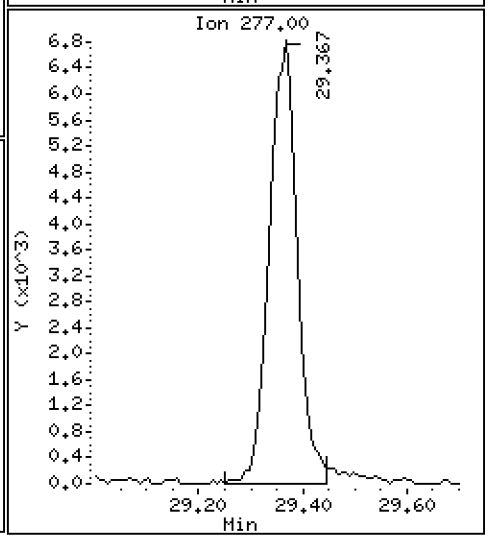












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

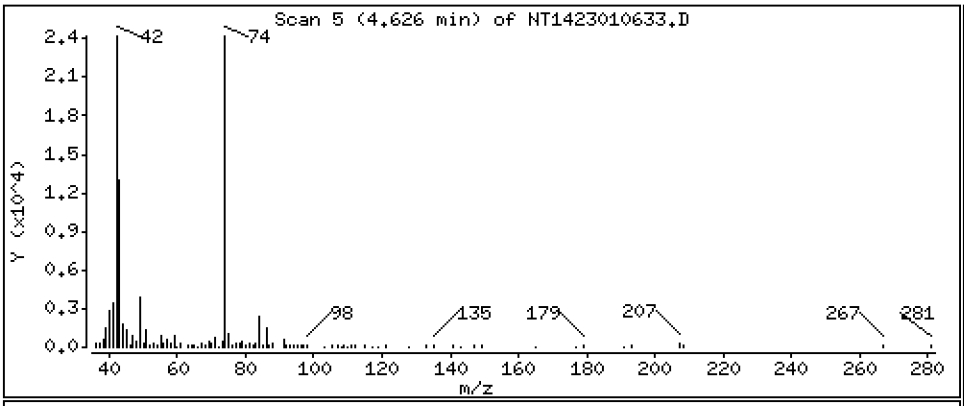
Operator: VTS

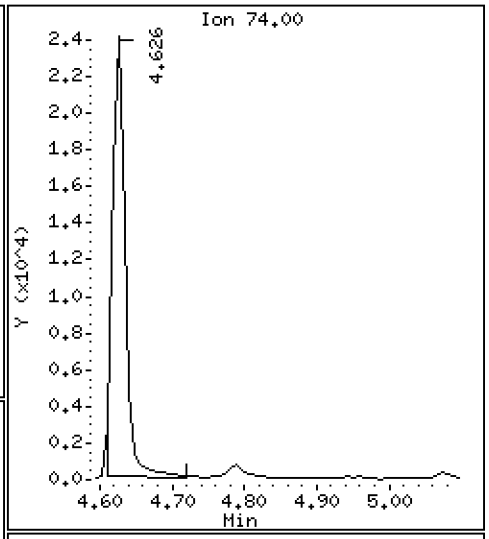
Column phase: ZB-5msi

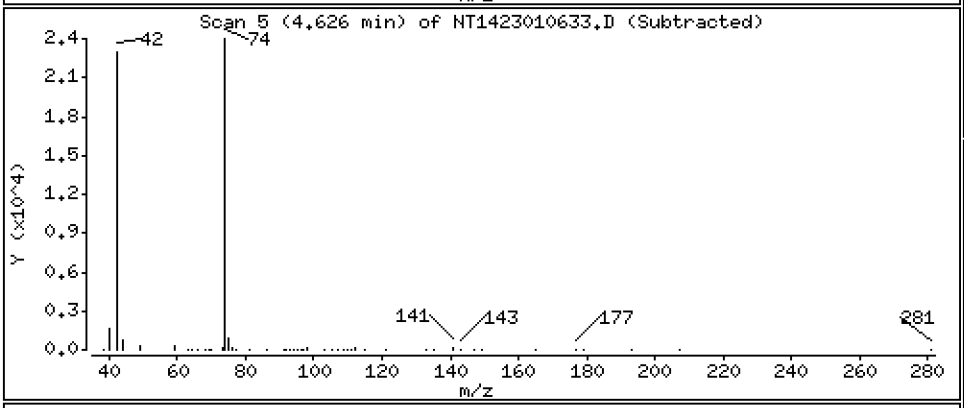
Column diameter: 0.25

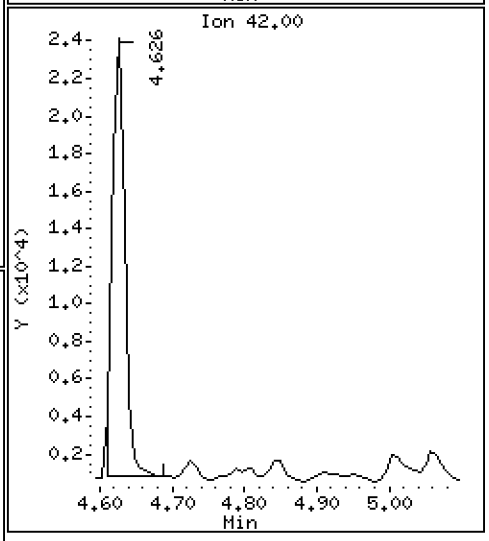
90 N-Nitrosodimethylamine

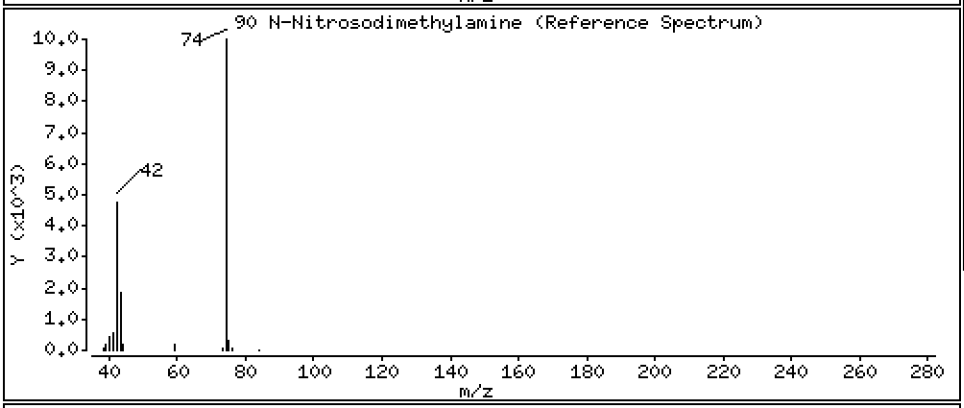
Concentration: 1.273 ug/mL

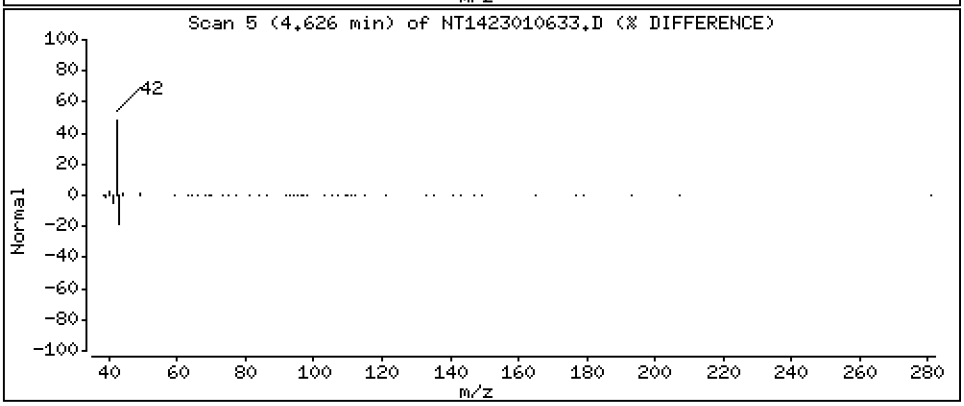












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

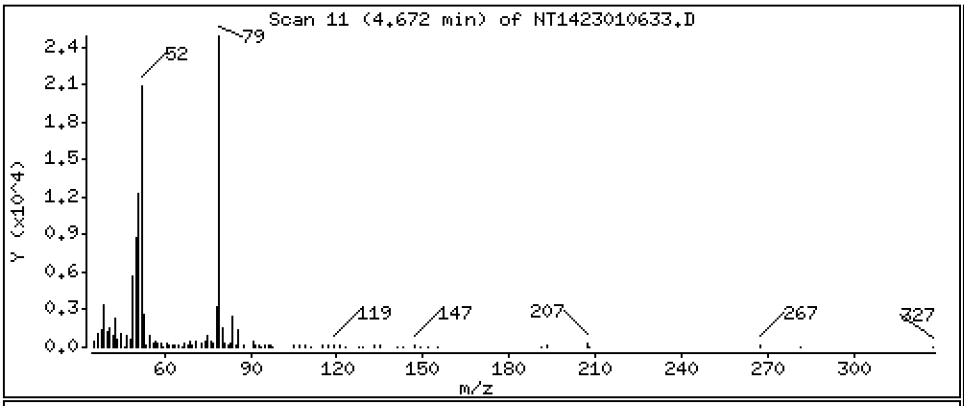
Operator: VTS

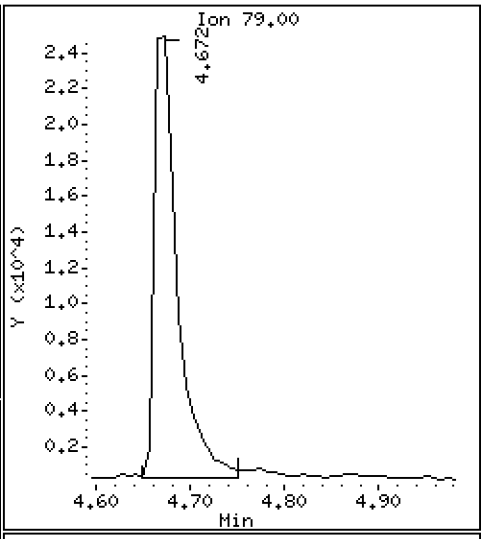
Column phase: ZB-5msi

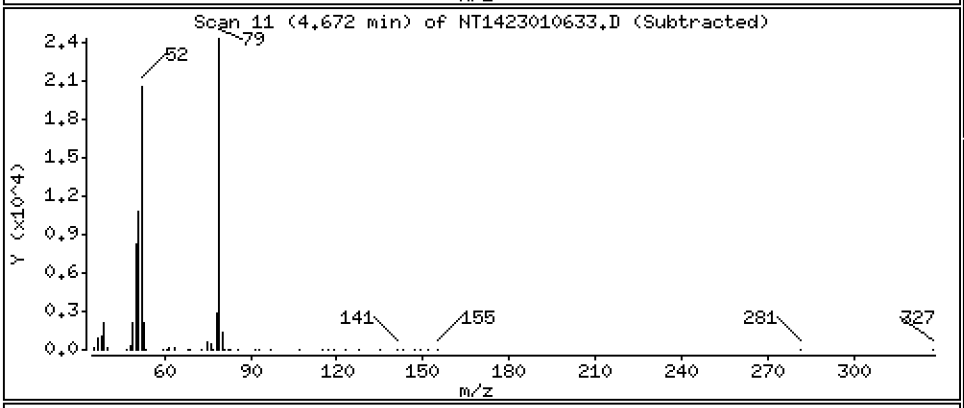
Column diameter: 0.25

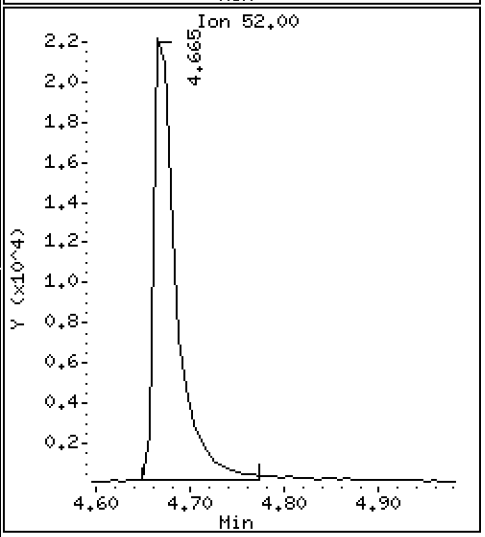
103 Pyridine

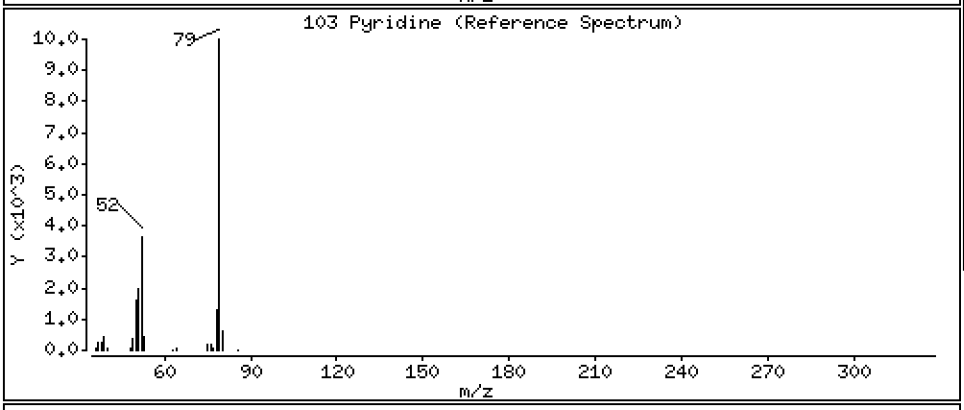
Concentration: 0.5521 ug/mL

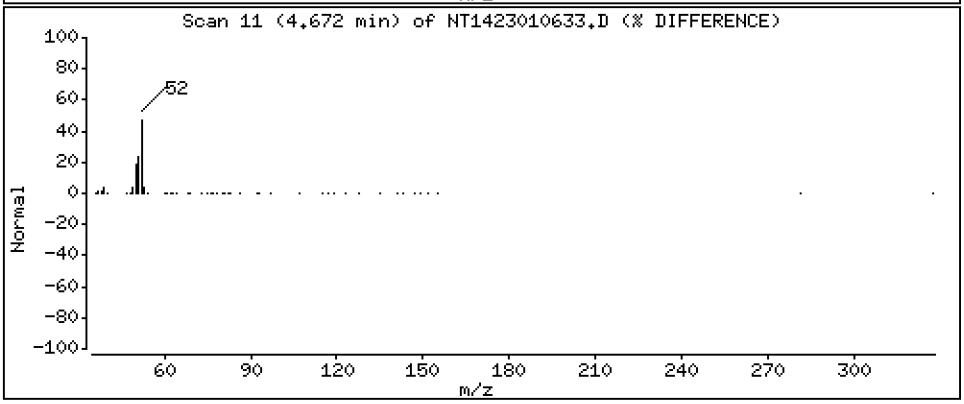












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

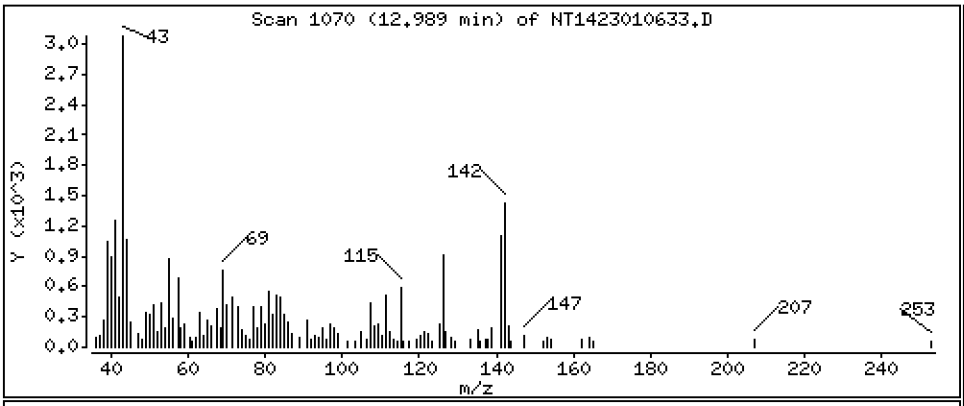
Operator: VTS

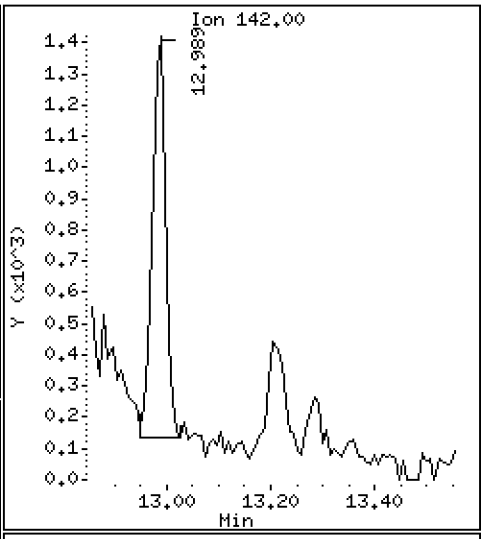
Column phase: ZB-5msi

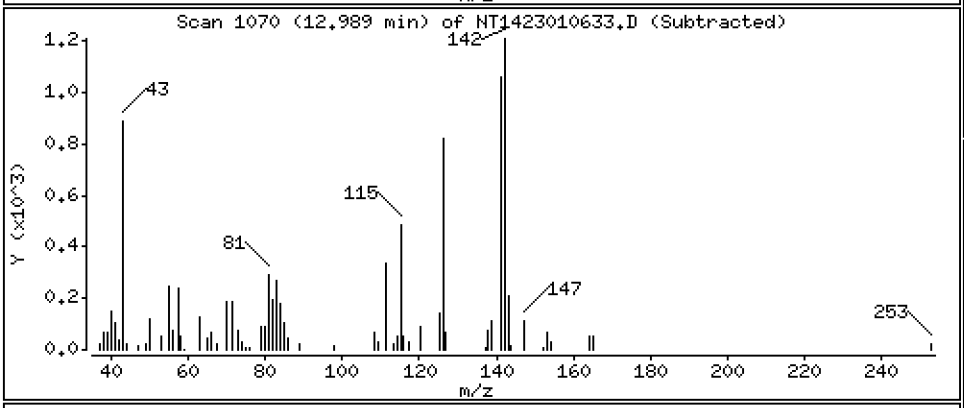
Column diameter: 0.25

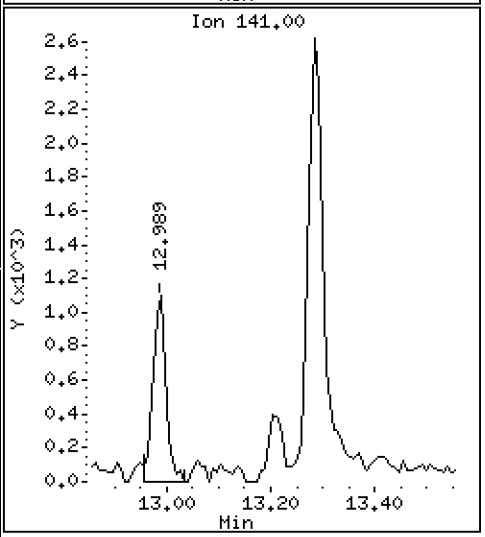
105 1-methylnaphthalene

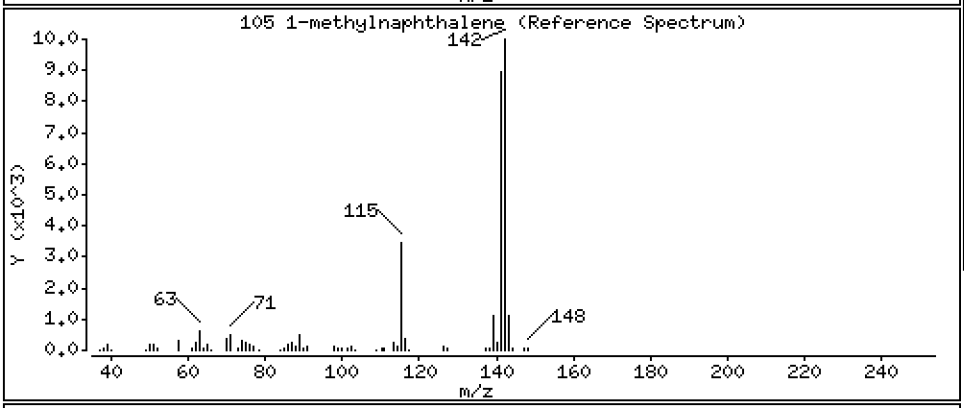
Concentration: 0.03140 ug/mL

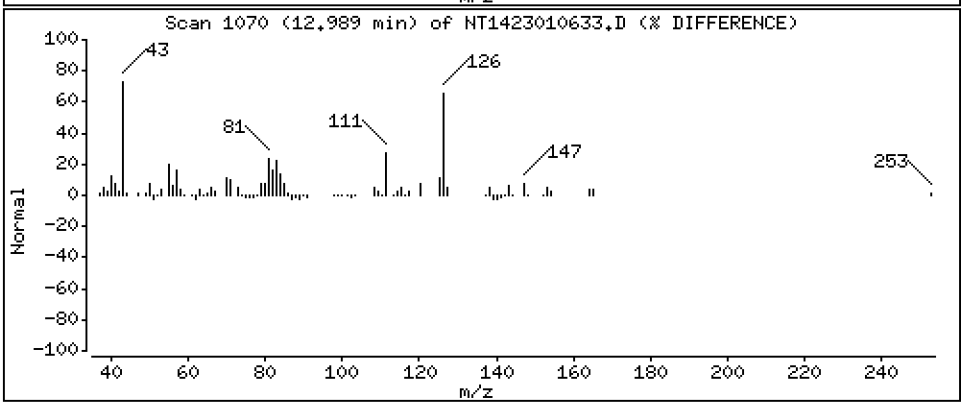












Date : 07-JAN-2023 06:51

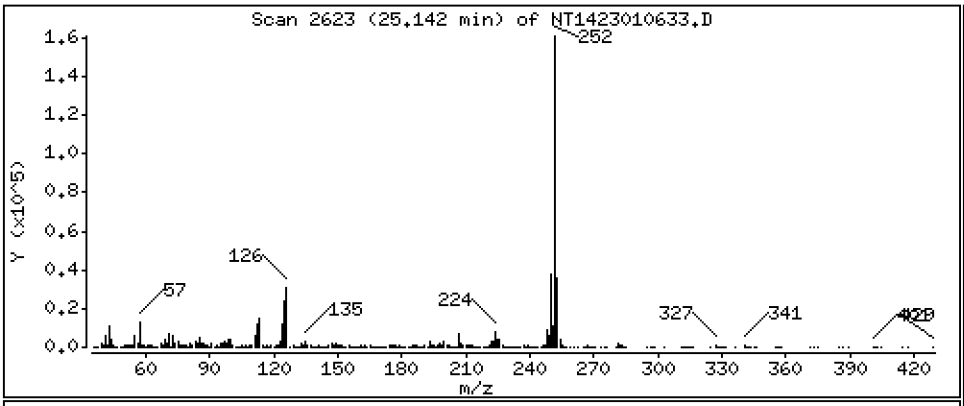
Client ID: Instrument: nt14.i

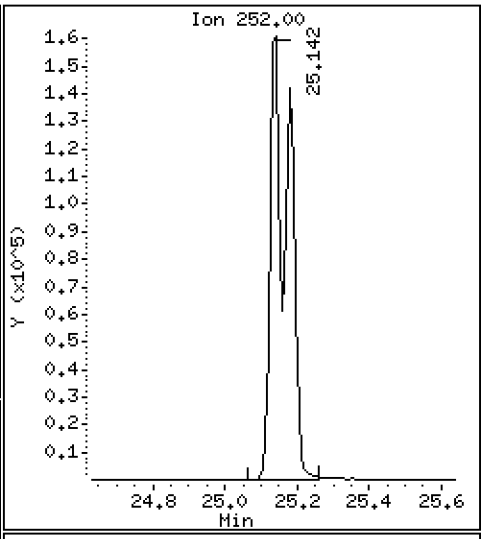
Sample Info: BKL0585-SRM1

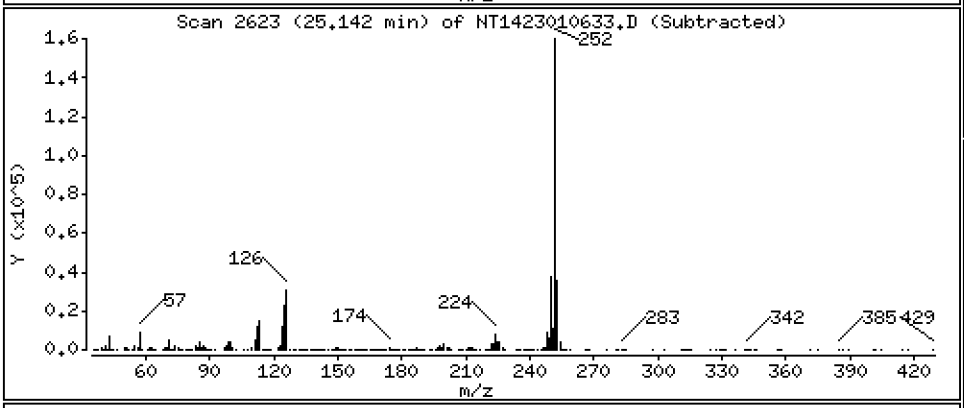
Operator: VTS

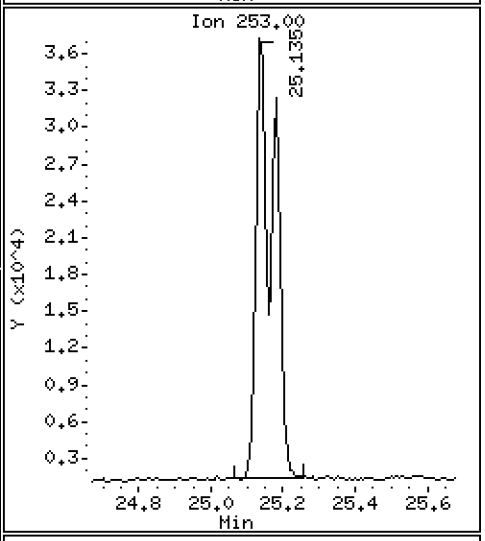
Column phase: ZB-5msi Column diameter: 0.25

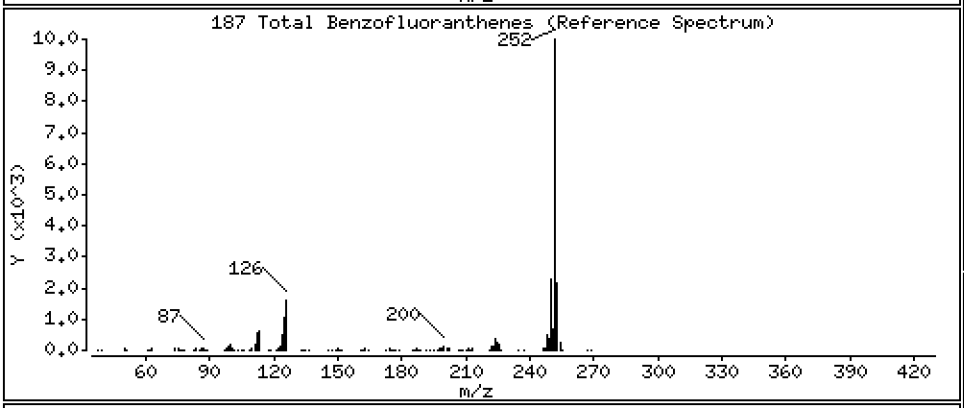
187 Total Benzofluoranthenes Concentration: 6.637 ug/mL

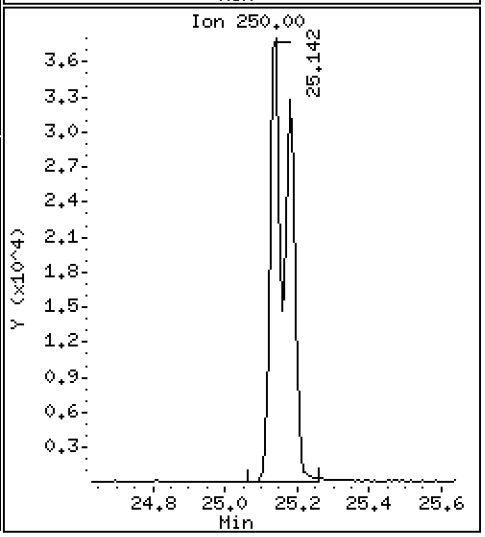


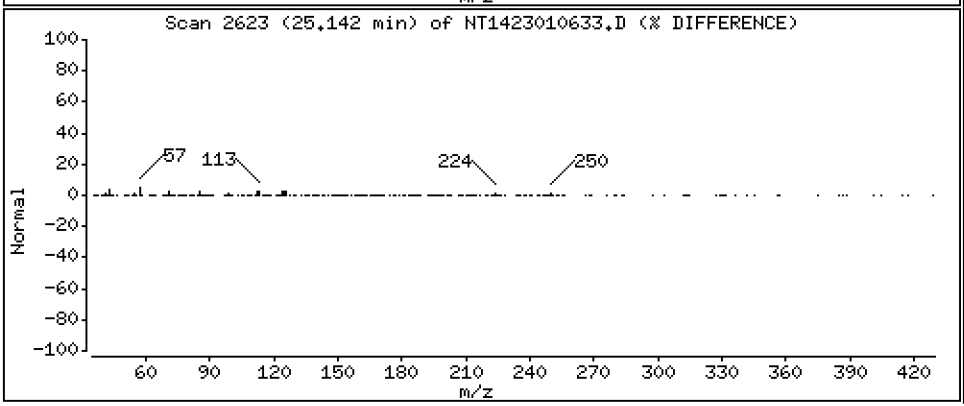












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Date : 07-JAN-2023 06:51

Client ID:

Instrument: nt14.i

Sample Info: BKL0585-SRM1

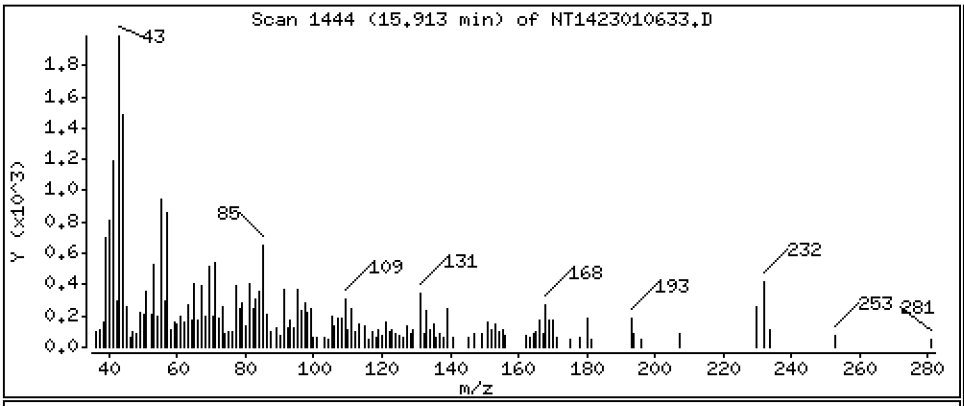
Operator: VTS

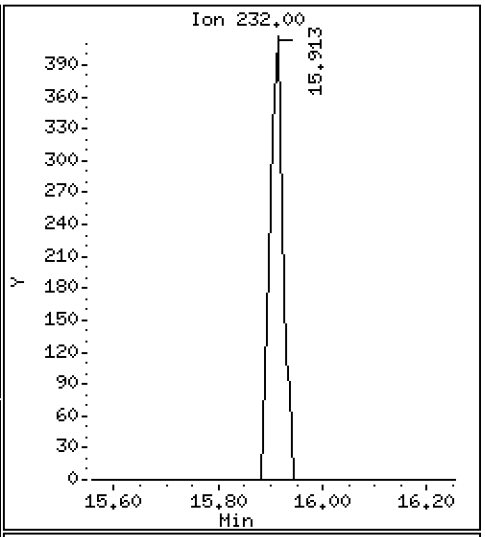
Column phase: ZB-5msi

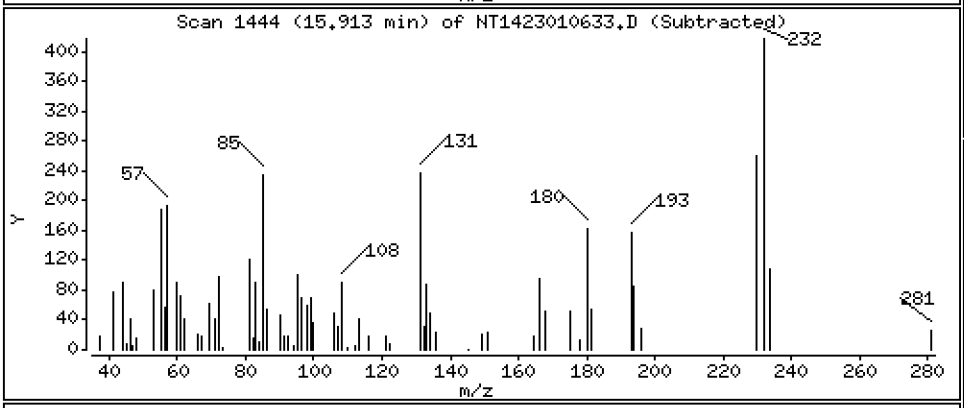
Column diameter: 0.25

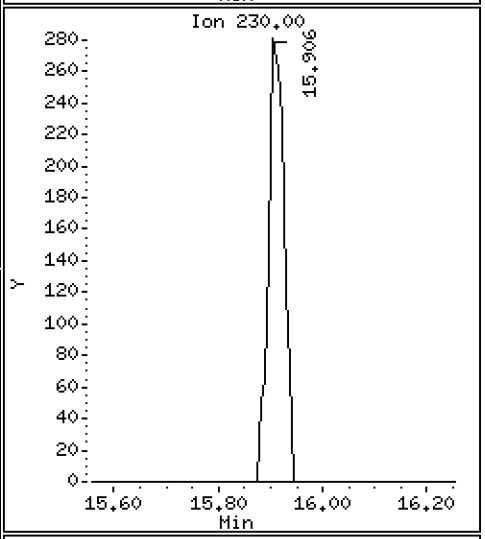
120 2,3,4,6-Tetrachlorophenol

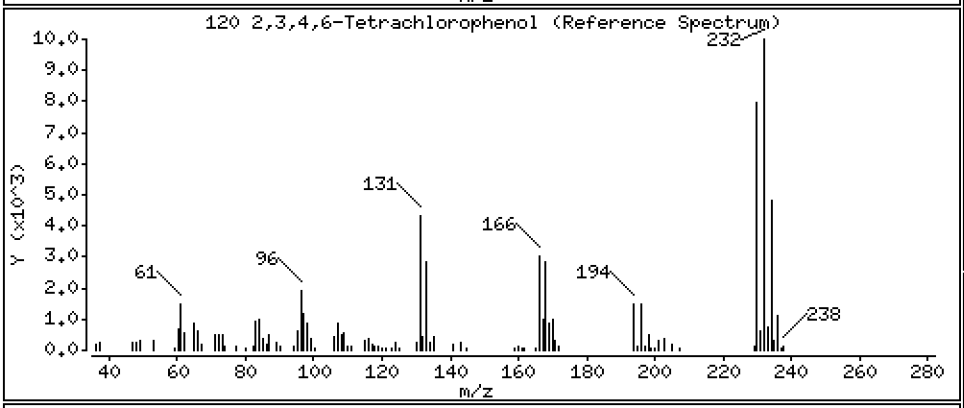
Concentration: 0.04866 ug/mL

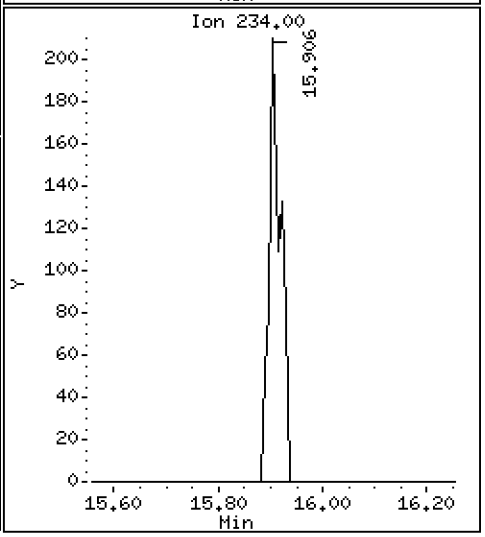


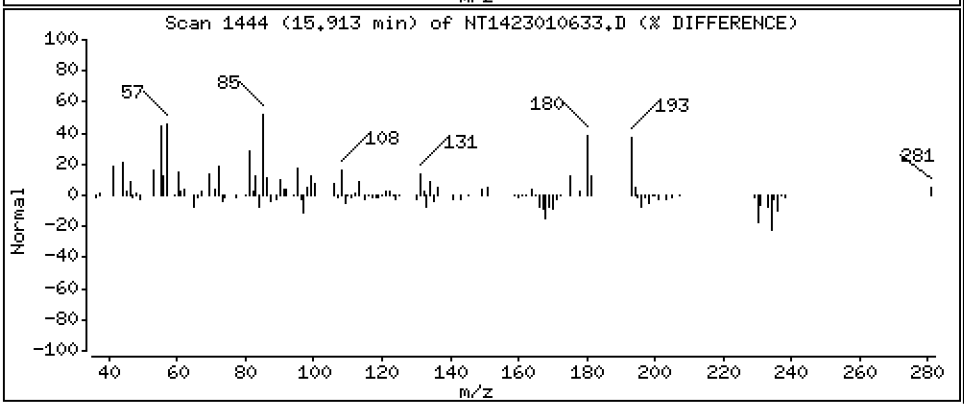












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010633.D
Lab Smp Id: BKL0585-SRM1
Inj Date : 07-JAN-2023 06:51 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : BKL0585-SRM1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 30
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.826	6.811	(0.755)	207298	5.93578	5.936
$	2 Phenol-d5	99	8.410	8.403	(0.930)	266522	6.17534	6.175
	3 Phenol	94	8.434	8.426	(0.932)	146879	2.99503	2.995
$	5 2-Chlorophenol-d4	132	8.681	8.673	(0.960)	229665	6.33613	6.336
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	8.712	8.704	(0.963)	63256	1.58903	1.589
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.992)	61903	1.46648	1.466
*	8 1,4-Dichlorobenzene-d4	152	9.044	9.037	(1.000)	109009	4.00000	
	9 1,4-Dichlorobenzene	146	8.975	9.068	(0.992)	61903	1.54796	1.548
$	10 1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.039)	95418	3.85155	3.852
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	9.549	9.308	(1.056)	219620	10.0595	10.06
	14 2,2'-oxybis(1-Chloropropane)	121	9.619	9.611	(1.064)	44942	3.95250	3.953
	13 2-Methylphenol	108	9.549	9.549	(1.056)	223733	6.27839	6.278
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	9.821	9.813	(1.086)	284527	7.56874	7.569
$	18 Nitrobenzene-d5	82	10.139	10.131	(0.878)	166246	4.84887	4.849
	19 Nitrobenzene	77	10.170	10.170	(0.881)	142209	4.17645	4.176
	20 Isophorone	82	10.628	10.620	(0.921)	126388	2.91236	2.912
	21 2-Nitrophenol	139	10.806	10.806	(0.936)	143385	6.49924	6.499
	22 2,4-Dimethylphenol	107	10.876	10.868	(0.942)	237132	6.67267	6.673
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	10.984	11.062	(0.952)	13665	0.63107	0.6311
	25 2,4-Dichlorophenol	162	11.279	11.271	(0.977)	248996	8.31201	8.312
	26 1,2,4-Trichlorobenzene	180	11.457	11.449	(0.993)	59617	1.84056	1.841
*	27 Naphthalene-d8	136	11.542	11.534	(1.000)	406015	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	549449	5.49897	5.499
	29 4-Chloroaniline	127	11.581	11.712	(1.003)	70885	1.72025	1.720
	30 Hexachlorobutadiene	225	11.951	11.951	(1.035)	37933	2.36035	2.360
	31 4-Chloro-3-methylphenol	107	12.702	12.686	(1.100)	65443	2.31500	2.315
	32 2-Methylnaphthalene	142	12.702	12.981	(1.100)	56081	0.76516	0.7652
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.615	13.607	(0.897)	39078	2.31951	2.320
35	2,4,5-Trichlorophenol	196	13.700	13.693	(0.903)	69703	3.58476	3.585
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	300199	4.42341	4.423
37	2-Chloronaphthalene	162	13.987	13.979	(0.922)	159778	2.76746	2.767
38	2-Nitroaniline	65	14.095	14.234	(0.929)	13302	0.87635	0.8764
39	Dimethylphthalate	163	14.676	14.668	(0.967)	344398	6.05013	6.050
40	Acenaphthylene	152	14.861	14.853	(0.980)	201608	2.29015	2.290
41	2,6-Dinitrotoluene	165	14.830	14.807	(0.978)	314	0.02444	0.02444
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	201849	4.00000	
43	3-Nitroaniline	138	15.070	15.093	(0.993)	43	0.00275	0.002754
44	Acenaphthene	153	15.240	15.240	(1.005)	420481	7.70098	7.701
45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	18073	1.65065	1.651
46	Dibenzofuran	168	15.565	15.565	(1.026)	632965	7.73042	7.730
47	4-Nitrophenol	109	15.441	15.433	(1.018)	73118	9.57419	9.574
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	79944	4.53564	4.536
50	Diethylphthalate	149	16.129	16.137	(1.063)	9480	0.12252	0.1225
49	Fluorene	166	16.284	16.284	(1.073)	405065	4.65032	4.650
51	4-Chlorophenyl-phenylether	204	16.276	16.268	(1.073)	102144	2.39524	2.395
52	4-Nitroaniline	138	16.284	16.361	(1.073)	5571	0.29654	0.2965
53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.903)	74589	5.14008	5.140
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	258480	4.40328	4.403
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	58742	6.01715	6.017
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.948)	194713	8.75978	8.760
57	Hexachlorobenzene	284	Compound Not Detected.					
58	Pentachlorophenol	266	17.960	17.952	(0.986)	15508	1.45835	1.458
* 59	Phenanthrene-d10	188	18.223	18.215	(1.000)	342092	4.00000	
60	Phenanthrene	178	18.269	18.269	(1.003)	549279	6.15828	6.158
61	Anthracene	178	18.362	18.362	(1.008)	252122	2.96097	2.961
62	Carbazole	167	18.695	18.687	(1.026)	594804	7.22591	7.226
63	Di-n-butylphthalate	149	19.491	19.491	(1.070)	218412	2.30986	2.310
64	Fluoranthene	202	20.660	20.652	(0.888)	284044	3.37606	3.376
65	Pyrene	202	21.085	21.077	(0.906)	372813	4.21446	4.214
$ 66	Terphenyl-d14	244	21.372	21.364	(0.918)	313070	4.99123	4.991
67	Butylbenzylphthalate	149	22.293	22.285	(0.958)	201017	5.89863	5.899
68	Benzo(a)anthracene	228	23.253	23.245	(0.999)	638666	8.06848	8.068
* 69	Chrysene-d12	240	23.276	23.276	(1.000)	261300	4.00000	
70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
71	Chrysene	228	23.323	23.315	(1.002)	139618	1.86732	1.867
72	bis(2-Ethylhexyl)phthalate	149	23.323	23.315	(0.960)	203980	3.58799	3.588
* 134	Di-n-octylphthalate-d4	153	24.306	24.298	(1.000)	511901	4.00000	
73	Di-n-octylphthalate	149	24.314	24.314	(1.000)	325362	2.64785	2.648
74	Benzo(b)fluoranthene	252	25.142	25.134	(0.970)	304292	3.48591	3.486
75	Benzo(k)fluoranthene	252	25.181	25.173	(0.972)	283805	3.19436	3.194
76	Benzo(a)pyrene	252	25.792	25.785	(0.996)	499240	6.87982	6.880
* 77	Perylene-d12	264	25.909	25.901	(1.000)	277760	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.582	28.574	(1.103)	412830	5.00453	5.005
79	Dibenzo(a,h)anthracene	278	28.590	28.582	(1.103)	320791	4.57626	4.576
80	Benzo(g,h,i)perylene	276	29.367	29.351	(1.133)	105666	1.52907	1.529
90	N-Nitrosodimethylamine	74	4.625	4.749	(0.511)	30630	1.27349	1.273
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	Compound Not Detected.					
103	Pyridine	79	4.672	4.633	(0.517)	42198	0.55213	0.5521
105	1-methylnaphthalene	142	12.988	13.205	(1.125)	2211	0.03140	0.03140
111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.142	25.134	(0.970)	560081	6.63660	6.637
120 2,3,4,6-Tetrachlorophenol	232	15.913	15.905	(1.049)	691	0.04866	0.04866

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010633.D
Lab Smp Id: BKL0585-SRM1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	109009	-4.40
27 Naphthalene-d8	420653	210327	841306	406015	-3.48
42 Acenaphthene-d10	216802	108401	433604	201849	-6.90
59 Phenanthrene-d10	366121	183061	732242	342092	-6.56
69 Chrysene-d12	276883	138442	553766	261300	-5.63
134 Di-n-octylphthala	540641	270321	1081282	511901	-5.32
77 Perylene-d12	308305	154153	616610	277760	-9.91

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.09
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.07
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.28	22.78	23.78	23.28	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.31	0.03
77 Perylene-d12	25.90	25.40	26.40	25.91	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010633.D

Lab ID: BKL0585-SRM1
nt14.i, 20230106.b\ABN.m,   07-JAN-2023 06:51

RT	CO-ELUTION COMPOUNDS
12.703	4-Chloro-3-methylphenol and 2-Methylnaphthalene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.992	1.003	-0.0111	1,4-Dichlorobenzene
1.056	1.030	0.0257	Benzyl alcohol
0.952	0.959	-0.0073	Benzoic acid
1.003	1.015	-0.0120	4-Chloroaniline
1.100	1.125	-0.0249	2-Methylnaphthalene
0.929	0.938	-0.0092	2-Nitroaniline
1.073	1.078	-0.0051	4-Nitroaniline
0.511	0.000	0.5114	N-Nitrosodimethylamine
1.125	1.145	-0.0195	1-methylnaphthalene

RRT check based on Ccal File: NT1423010619.D

On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SKL0355-TUN1	NT1422123001.D	12/30/2022	7:53
Cal Standard	SKL0355-CAL5	NT1422123002.D	12/30/2022	8:06
Cal Standard	SKL0355-CAL7	NT1422123003.D	12/30/2022	8:42
Cal Standard	SKL0355-CAL1	NT1422123004.D	12/30/2022	9:18
Cal Standard	SKL0355-CAL6	NT1422123005.D	12/30/2022	9:54
Cal Standard	SKL0355-CAL2	NT1422123006.D	12/30/2022	10:30
Cal Standard	SKL0355-CAL4	NT1422123007.D	12/30/2022	11:07
Cal Standard	SKL0355-CAL3	NT1422123008.D	12/30/2022	11:43
Initial Cal Check	SKL0355-ICV1	NT1422123011.D	12/30/2022	13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	12/30/2022	14:08
Initial Cal Check	SKL0355-ICV2	NT1422123014.D	12/30/2022	15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	12/31/2022	6:20
ZZZZZ	22K0399-08RE1	NT1422123039.D	12/31/2022	6:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	12/31/2022	7:32
ZZZZZ	22K0399-22RE1	NT1422123041.D	12/31/2022	8:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	12/31/2022	8:44
Initial Cal Check	SKL0355-ICV4	NT1422123049.D	12/31/2022	13:17
Low Cal Check	SKL0355-LCV1	NT1422123051.D	12/31/2022	14:29
Low Cal Check	SKL0355-LCV2	NT1422123052.D	12/31/2022	15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	12/31/2022	19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	12/31/2022	20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	12/31/2022	21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	12/31/2022	21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	12/31/2022	22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	12/31/2022	22:54
Initial Cal Check	SKL0355-ICV5	NT1422123066.D	12/31/2022	23:30

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

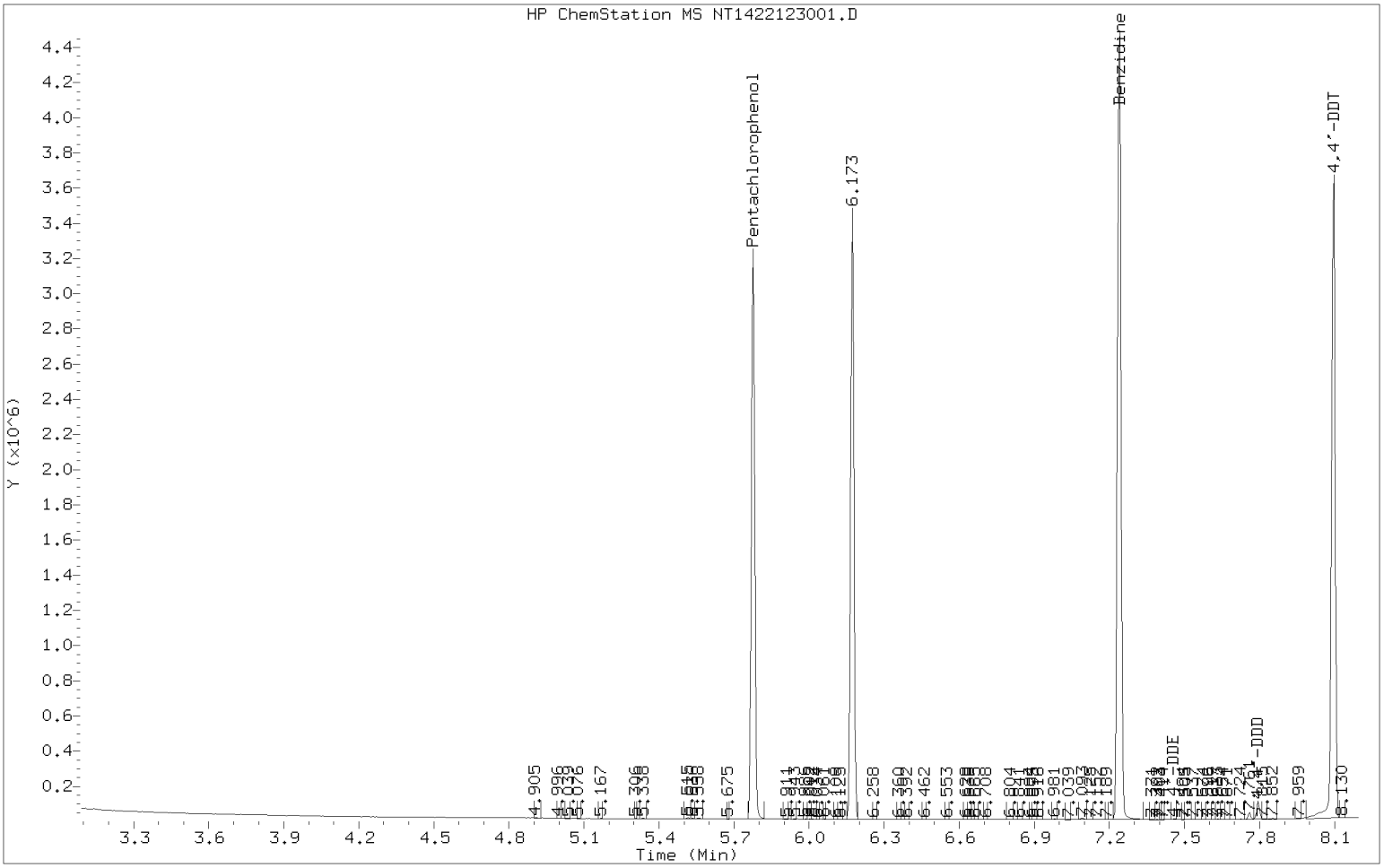
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1422123001.D	Injection Date:	12/30/22
Instrument ID:	NT14	Injection Time:	07:53
Sequence:	SKL0355	Lab Sample ID:	SKL0355-TUN1

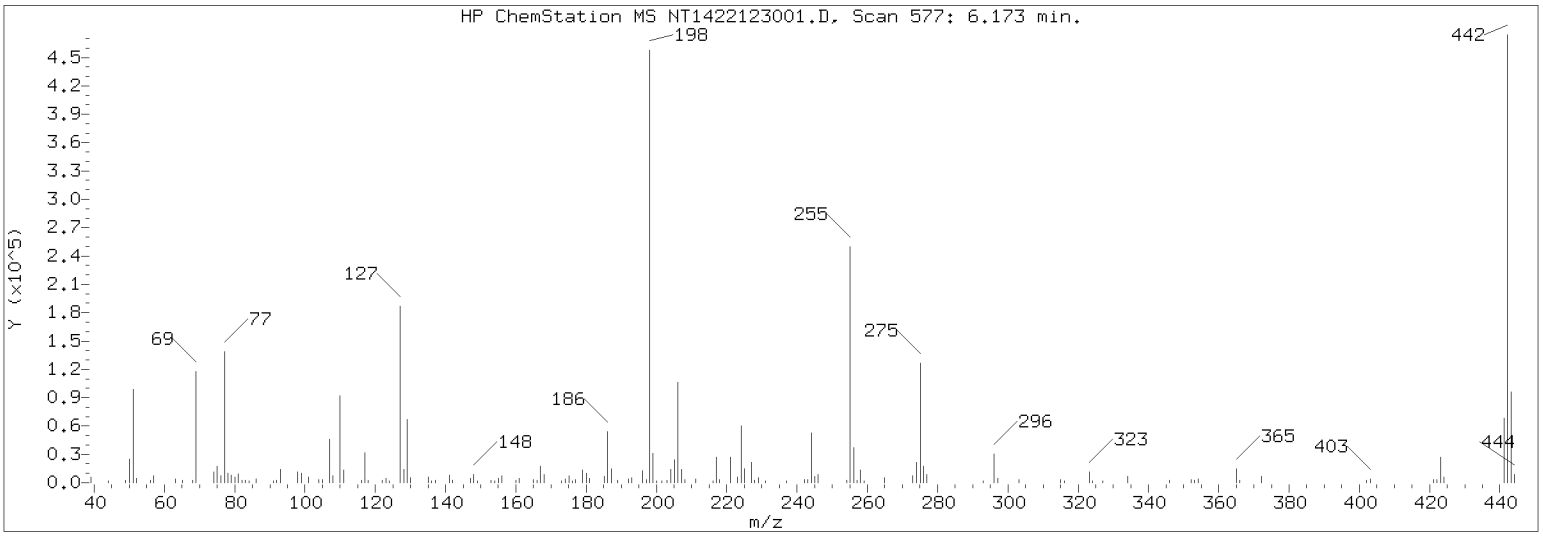
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	1.54	PASS
69	Less than 100% of 198	27.3	PASS
70	Less than 2% of 69	0	PASS
197	Less than 2% of 198	0.704	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.88	PASS
365	1 - 100% of 198	3.3	PASS
441	Less than 150% of 443	72.3	PASS
442	1 - 200% of 198	103	PASS
443	15 - 24% of 442	19.8	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of		
4,4'-DDT	Less than 200% of		

Low Cal Check	SKL0355-LCV3	NT1422123067.D	01/01/2023	0:06
Low Cal Check	SKL0355-LCV4	NT1422123068.D	01/01/2023	0:42
Blank	BKL0193-BLK1	NT1422123069.D	01/01/2023	1:18
LCS	BKL0193-BS1	NT1422123070.D	01/01/2023	1:53
LCS Dup	BKL0193-BSD1	NT1422123071.D	01/01/2023	2:29
Reference	BKL0193-SRM1	NT1422123072.D	01/01/2023	3:05
ZZZZZ	22L0104-01	NT1422123073.D	01/01/2023	3:41
ZZZZZ	22L0104-02	NT1422123074.D	01/01/2023	4:17
ZZZZZ	22L0136-01	NT1422123075.D	01/01/2023	4:53
ZZZZZ	22L0136-08	NT1422123076.D	01/01/2023	5:29
ZZZZZ	22L0136-09	NT1422123077.D	01/01/2023	6:05
Matrix Spike	BKL0193-MS1	NT1422123078.D	01/01/2023	6:41
Matrix Spike Dup	BKL0193-MSD1	NT1422123079.D	01/01/2023	7:17
ZZZZZ	22L0136-10	NT1422123080.D	01/01/2023	7:53
ZZZZZ	22L0136-11	NT1422123081.D	01/01/2023	8:29
ZZZZZ	22L0136-12	NT1422123082.D	01/01/2023	9:05
Calibration Check	SKL0355-CCV1	NT1422123083.D	01/01/2023	9:41

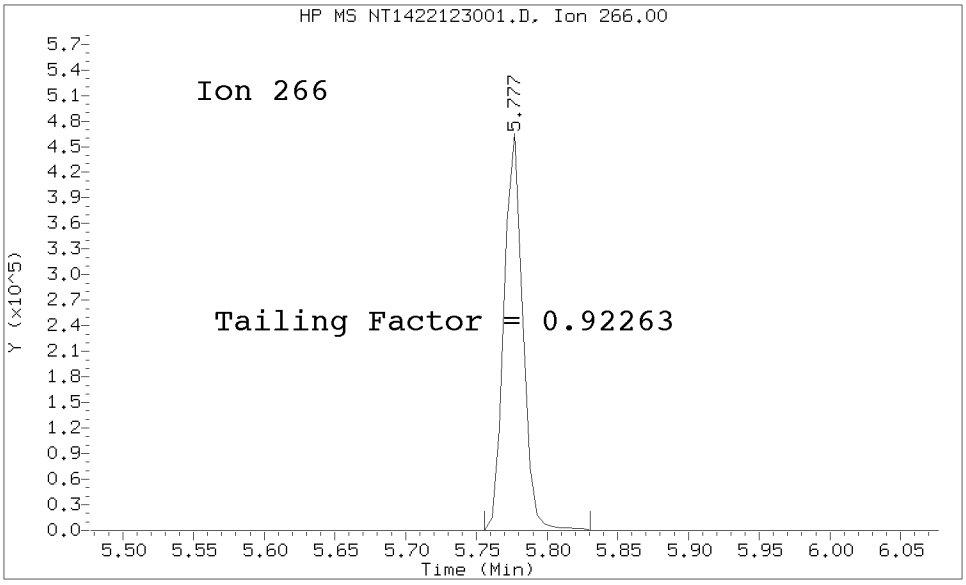
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: VTS
Sample Info: SKL0355-TUN1 SKL0355-TUN1
Report Date: 12/31/2022 15:11



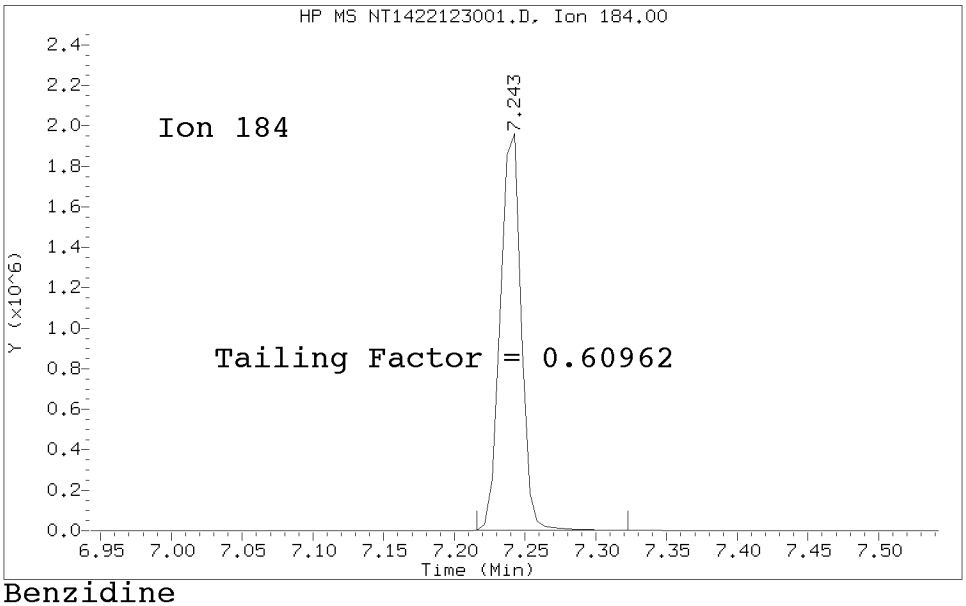


Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol
==========
 Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine
=========
 Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

Data File: NT1422123001.D
Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
Location of Maximum: 442.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		

Analytical Resources, LLC
Analytical Chemists and Consultants

MASS SPECTROMETER
INSTRUMENT PERFORMANCE CHECK
EPA 8270E

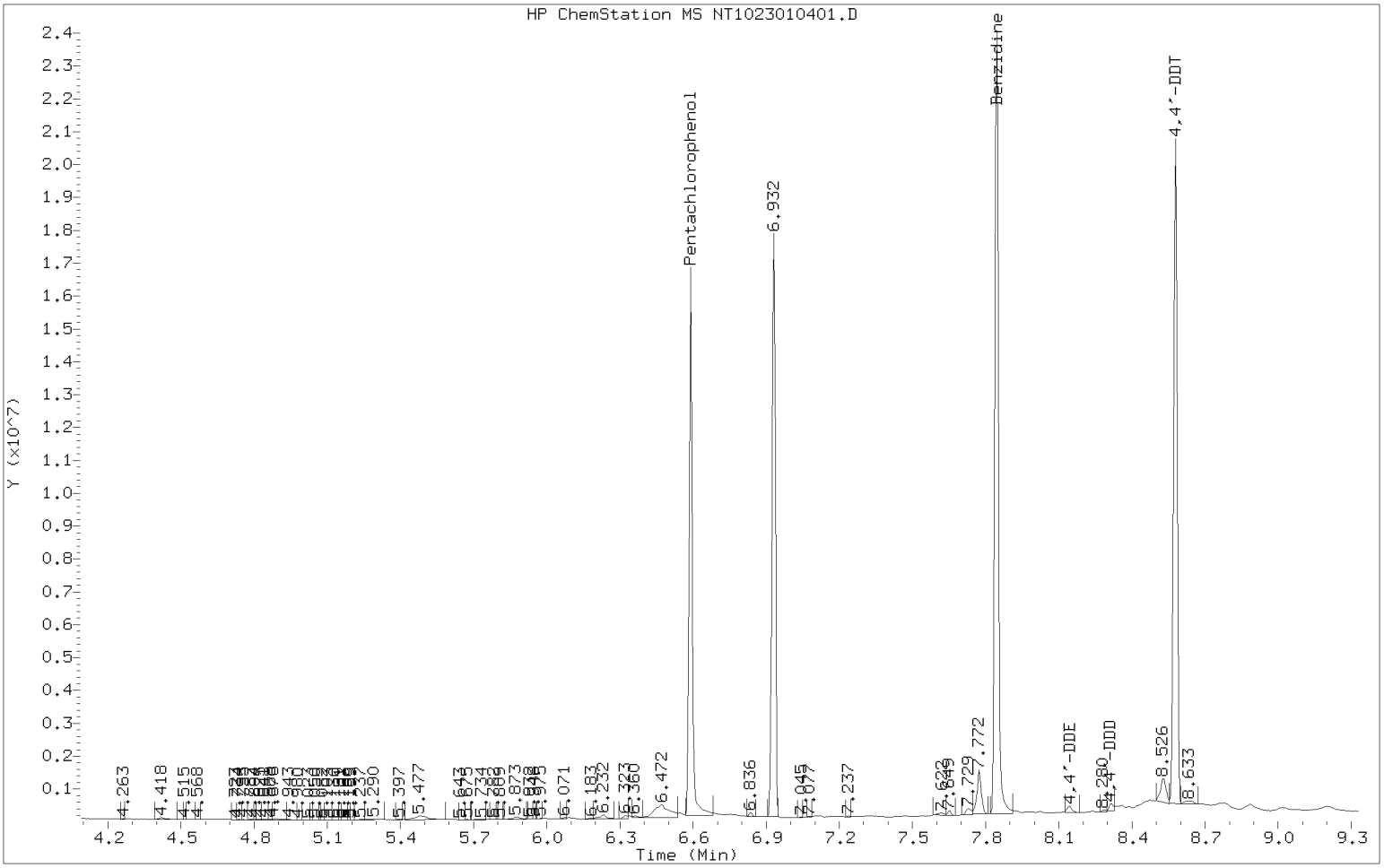
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Lab File ID:	NT1023010401.D	Injection Date:	01/04/23
Instrument ID:	NT10	Injection Time:	08:46
Sequence:	SLA0012	Lab Sample ID:	SLA0012-TUN1

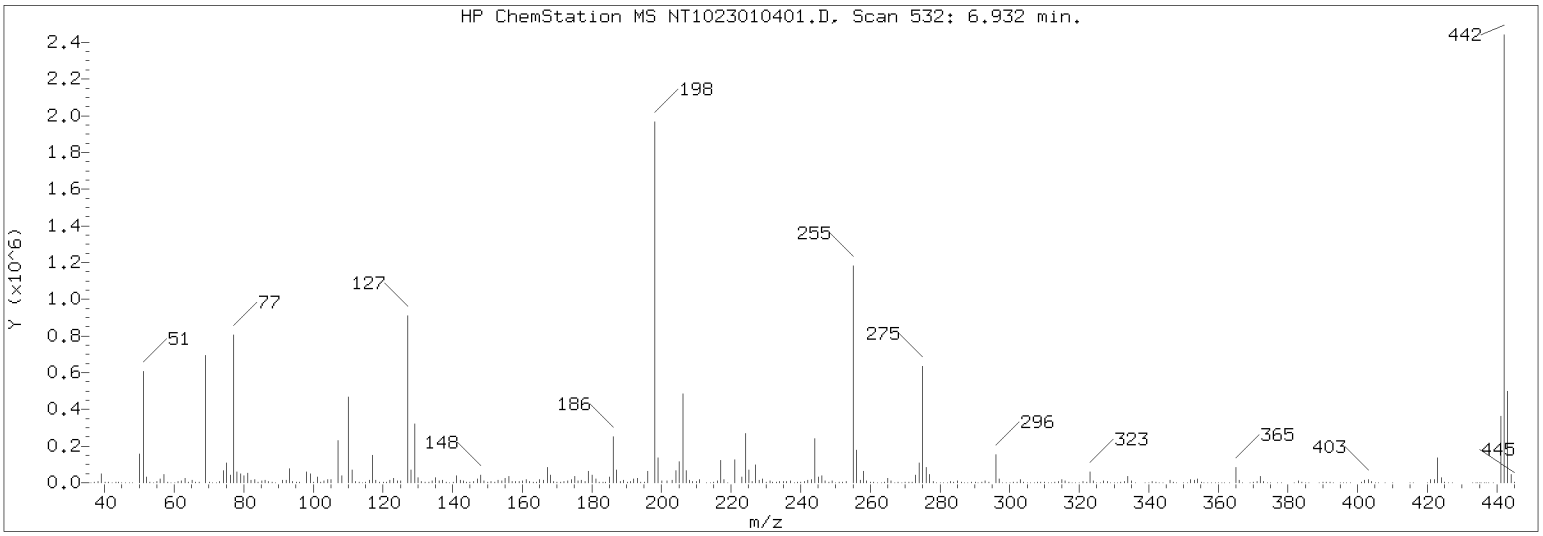
m/z	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE	
68	Less than 2% of 69	0	PASS
69	Less than 100% of 198	36.5	PASS
70	Less than 2% of 69	0.447	PASS
197	Less than 2% of 198	0	PASS
198	Base peak, 100% relative abundance	100	PASS
199	5 - 9% of 198	6.89	PASS
365	1 - 100% of 198	3.88	PASS
441	Less than 150% of 443	74.3	PASS
442	1 - 200% of 198	113	PASS
443	15 - 24% of 442	19.9	PASS
4,4'-DDD	Less than 20% of 4,4'-DDT		
4,4'-DDE	Less than 20% of 4,4'-DDT		
4,4'-DDT	Base peak, 100% relative abundance		

Client Sample ID	Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed
MS Tune	SLA0012-TUN1	NT1023010401.D	01/04/2023	8:46
Initial Cal Blank	SLA0012-ICB1	NT1023010402.D	01/04/2023	9:07
Cal Standard	SLA0012-CAL7	NT1023010404.D	01/04/2023	10:44
Cal Standard	SLA0012-CAL6	NT1023010405.D	01/04/2023	11:51
Cal Standard	SLA0012-CAL5	NT1023010406.D	01/04/2023	12:29
Cal Standard	SLA0012-CAL4	NT1023010407.D	01/04/2023	13:07
Cal Standard	SLA0012-CAL3	NT1023010408.D	01/04/2023	13:46
Cal Standard	SLA0012-CAL2	NT1023010409.D	01/04/2023	14:24
Cal Standard	SLA0012-CAL1	NT1023010410.D	01/04/2023	15:03
Secondary Cal Check	SLA0012-SCV1	NT1023010413.D	01/04/2023	16:58

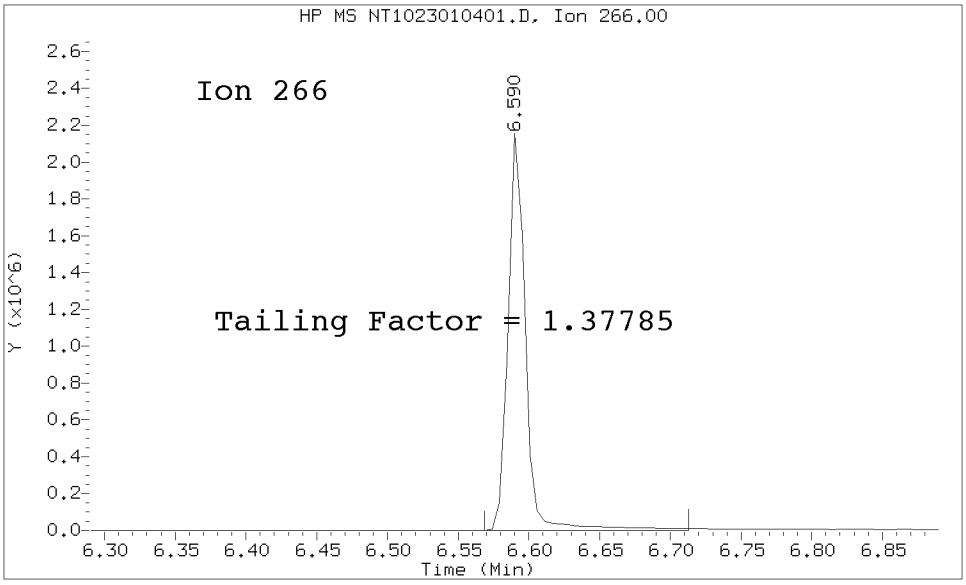
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230104.b/NT1023010401.D/NT1023010401.D
Method Used: \20230104.b\DFTPP8270E.m Inst: nt10
Injection Date: 04-JAN-2023 08:46 Operator: DSD
Sample Info: SLA0012-TUN1 SLA0012-TUN1
Report Date: 01/05/2023 11:53



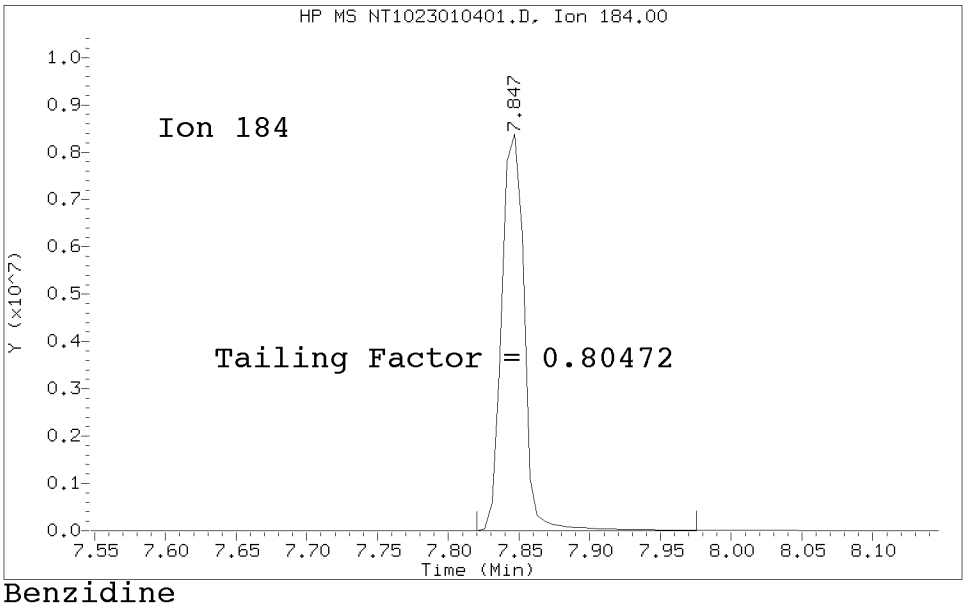


Datafile Analyzed: /20230104.b/NT1023010401.D/NT1023010401.D
Method Used: \20230104.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 04-JAN-2023 08:46 Operator: DSD
Sample Info: SLA0012-TUN1
Report Date: 01/05/2023 11:53



Pentachlorophenol
==========
 Exp. RT = 6.633
Found RT = 6.590

Tail Factor = 1.378 Maximum Allowed = 2.0



Benzidine
==========
 Exp. RT = 7.895
Found RT = 7.847

Tail Factor = 0.805 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.3778502	2.000	PASS
Benzidine	0.8047210	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	3968354			N/A
4,4-DDE	146	0.0	20.0	PASS
4,4-DDD	20262	0.5	20.0	PASS
4,4-DDD + DDE	20408	0.5	20.0	PASS

Tuning Sample, nt10.i/20230104.b/NT1023010401.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.52
70	Less than 2.00% of mass 69	0.16 (0.45)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.89
365	1.00 - 100.00% of mass 198	3.88
441	Less than 150.00% of mass 443	16.75 (74.29)
442	Less than 200.00% of mass 198	113.08
443	15.00 - 24.00% of mass 442	22.55 (19.94)

Data File: NT1023010401.D
Spectrum: Avg. Scans 531-533 (6.93), Background Scan 526
Location of Maximum: 442.00
Number of points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	39	139.00	1218	235.00	6167	328.00	4625
37.00	2194	140.00	3459	236.00	4387	329.00	1120
38.00	6608	141.00	32736	237.00	7456	330.00	308
39.00	37560	142.00	10941	238.00	1104	331.00	402
40.00	1519	143.00	7320	239.00	3507	332.00	3121
41.00	730	144.00	2045	240.00	2744	333.00	4523
45.00	428	145.00	2055	241.00	4850	334.00	27424
46.00	133	146.00	5594	242.00	12504	335.00	7601
48.00	352	147.00	16632	243.00	15021	336.00	992
50.00	132416	148.00	36536	244.00	192640	339.00	733
51.00	495936	149.00	7812	245.00	26192	340.00	732
52.00	26240	150.00	2591	246.00	30736	341.00	5399
53.00	855	151.00	4327	247.00	7016	342.00	1573
54.00	238	152.00	4705	248.00	1772	343.00	314
55.00	1894	153.00	10245	249.00	7095	344.00	219
56.00	15386	154.00	8309	250.00	1436	345.00	116
57.00	35752	155.00	19496	251.00	1459	346.00	11496
58.00	1459	156.00	29664	252.00	1761	347.00	2061
59.00	123	157.00	6577	253.00	4246	348.00	299
61.00	6651	158.00	6158	255.00	961984	350.00	515
62.00	7641	159.00	4537	256.00	141312	351.00	974
63.00	21224	160.00	10486	257.00	11549	352.00	14229
64.00	3113	161.00	15669	258.00	49248	353.00	9444
65.00	11136	162.00	4669	259.00	7725	354.00	14808
66.00	1059	163.00	1424	260.00	1604	355.00	2586
67.00	663	164.00	2283	261.00	1914	356.00	387
69.00	596032	165.00	11828	262.00	370	357.00	293
70.00	2663	166.00	10523	263.00	489	358.00	355
72.00	153	167.00	66232	264.00	2541	359.00	1018
73.00	3734	168.00	34480	265.00	19704	360.00	253
74.00	56096	169.00	5274	266.00	5391	361.00	401
75.00	91240	170.00	2251	267.00	897	362.00	59
76.00	34704	171.00	2790	268.00	1771	363.00	231
77.00	684608	172.00	6156	269.00	280	365.00	63296
78.00	48072	173.00	8203	270.00	1562	366.00	9660
79.00	41144	174.00	14870	271.00	2133	367.00	700
80.00	31552	175.00	27784	272.00	2859	369.00	56
81.00	44640	176.00	9548	273.00	33032	370.00	1428
82.00	11284	177.00	12296	274.00	86064	371.00	3855
83.00	12035	178.00	4456	275.00	507904	372.00	26056
84.00	904	179.00	51512	276.00	69072	373.00	6540
85.00	7456	180.00	36208	277.00	35624	374.00	760
86.00	11904	181.00	16672	278.00	6304	375.00	180
87.00	5529	182.00	2963	279.00	1318	377.00	811
88.00	2222	183.00	1615	280.00	238	378.00	162
89.00	878	184.00	3945	281.00	580	382.00	70
91.00	9345	185.00	26176	282.00	1048	383.00	6810
92.00	10851	186.00	207168	283.00	4272	384.00	1968
93.00	65288	187.00	57728	284.00	2894	385.00	705

94.00	4190	188.00	6239	285.00	6779	386.00	53
95.00	40	189.00	11271	286.00	1351	389.00	394
96.00	2792	190.00	2017	287.00	154	390.00	3521
97.00	367	191.00	5600	288.00	615	391.00	2580
98.00	49416	192.00	16552	289.00	1735	392.00	1946
99.00	43104	193.00	18192	290.00	1327	393.00	395
100.00	3595	194.00	3748	291.00	843	395.00	300
101.00	24352	195.00	2707	292.00	1667	396.00	139
102.00	1359	196.00	51416	293.00	9016	397.00	333
103.00	8247	198.00	1632256	294.00	2261	398.00	147
104.00	15257	199.00	112464	296.00	119752	401.00	1722
105.00	13964	200.00	8350	297.00	16888	402.00	9902
107.00	196160	201.00	8161	298.00	1131	403.00	14445
108.00	31480	203.00	9361	299.00	466	404.00	5231
110.00	392320	204.00	53208	300.00	257	405.00	998
111.00	57544	205.00	92968	301.00	1811	406.00	65
112.00	6934	206.00	398464	302.00	2399	408.00	53
113.00	1860	207.00	52240	303.00	15356	410.00	520
114.00	572	208.00	11762	304.00	3914	415.00	816
115.00	491	209.00	4126	305.00	543	416.00	123
116.00	11741	210.00	2474	306.00	83	420.00	147
117.00	127032	211.00	15567	307.00	288	421.00	12866
118.00	10089	213.00	1077	308.00	1932	422.00	13095
119.00	1136	214.00	481	309.00	1378	423.00	102456
120.00	2397	215.00	4130	310.00	1802	424.00	21344
121.00	695	216.00	9071	311.00	411	425.00	2239
122.00	12604	217.00	100552	312.00	582	426.00	133
123.00	19392	218.00	13083	313.00	1345	427.00	64
124.00	8490	219.00	1202	314.00	6515	433.00	105
125.00	8637	221.00	105016	315.00	14768	434.00	179
127.00	773952	223.00	24760	316.00	8573	435.00	353
128.00	59144	224.00	218496	317.00	1652	436.00	165
129.00	273216	225.00	56360	318.00	221	437.00	380
130.00	22344	226.00	6785	319.00	313	438.00	337
131.00	4100	227.00	81304	320.00	626	439.00	420
132.00	1327	228.00	12037	321.00	4513	441.00	273472
133.00	170	229.00	18696	322.00	2445	442.00	1845760
134.00	7691	230.00	2862	323.00	45096	443.00	368128
135.00	21872	231.00	9431	324.00	8065	444.00	33472
136.00	8508	232.00	1552	325.00	1026	445.00	1973
137.00	11376	233.00	1739	326.00	1059		
138.00	2486	234.00	5659	327.00	8978		

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Phenol	0.2	2.248898	0.5	1.851836	1	1.76565	2.5	1.637458	5	1.696739	10	1.715084
bis(2-chloroethyl) ether	0.2	1.54497	0.5	1.245135	1	1.34222	2.5	1.110277	5	1.12874	10	1.14099
2-Chlorophenol	0.2	1.763769	0.5	1.495197	1	1.42085	2.5	1.310292	5	1.380644	10	1.425301
1,3-Dichlorobenzene	0.2	1.928027	0.5	1.560917	1	1.676215	2.5	1.390052	5	1.417896	10	1.429853
1,4-Dichlorobenzene	0.2	1.843668	0.5	1.466644	1	1.592102	2.5	1.311013	5	1.341617	10	1.364501
1,2-Dichlorobenzene	0.2	1.744909	0.5	1.460902	1	1.559256	2.5	1.282346	5	1.32894	10	1.345527
Benzyl Alcohol	0.2	0.8424446	0.5	0.7382943	1	0.7805735	2.5	0.7300673	5	0.8150927	10	0.8389534
2,2'-Oxybis(1-chloropropane)	0.2	0.5275633	0.5	0.4123621	1	0.457572	2.5	0.3490262	5	0.3953408	10	0.3690057
2-Methylphenol	0.2	1.550705	0.5	1.321363	1	1.270208	2.5	1.19752	5	1.258742	10	1.275566
Hexachloroethane	0.2	0.6430155	0.5	0.5189899	1	0.5636454	2.5	0.4817415	5	0.5075007	10	0.5227387
N-Nitroso-di-n-Propylamine	0.2	0.8597752	0.5	0.7423441	1	0.8554759	2.5	0.7406317	5	0.7827459	10	0.7957393
4-Methylphenol	0.2	1.603588	0.5	1.37883	1	1.339681	2.5	1.251051	5	1.351153	10	1.369765
Nitrobenzene	0.2	0.3885811	0.5	0.3167636	1	0.3452801	2.5	0.300009	5	0.3198136	10	0.33438
Isophorone	0.2	0.4170687	0.5	0.3515477	1	0.4141958	2.5	0.3791228	5	0.434338	10	0.4606781
2-Nitrophenol	0.2	0.2171999	0.5	0.1688016	1	0.1740442	2.5	0.1776769	5	0.2185774	10	0.2277228
2,4-Dimethylphenol	0.4	0.4183843	1	0.3570024	2	0.3338109	5	0.3162839	10	0.330235	20	0.3731136
Bis(2-Chloroethoxy)methane	0.2	0.4034213	0.5	0.3269736	1	0.3533537	2.5	0.2991252	5	0.3061148	10	0.3154836
2,4-Dichlorophenol	0.4	0.3181166	1	0.2810633	2	0.2997364	5	0.2607662	10	0.2834456	20	0.3225223
1,2,4-Trichlorobenzene	0.2	0.3995622	0.5	0.324568	1	0.3351147	2.5	0.2818674	5	0.2887319	10	0.2977799
Naphthalene	0.2	1.221526	0.5	0.9676198	1	1.034687	2.5	0.8739434	5	0.9080378	10	0.9400435
Benzoic acid	0.8	3.061006E-02	2	4.967613E-02	4	8.177999E-02	10	0.1546339	20	0.2250023	40	0.2411076
4-Chloroaniline			1	0.3947866	2	0.4154458	5	0.399002	10	0.3994688	20	0.4154909
Hexachlorobutadiene	0.2	0.1875546	0.5	0.1547453	1	0.1612926	2.5	0.1397884	5	0.1480313	10	0.1540463
4-Chloro-3-Methylphenol			1	0.2703707	2	0.2601314	5	0.2579195	10	0.2840888	20	0.2969454
2-Methylnaphthalene	0.2	0.8553626	0.5	0.6940042	1	0.6998589	2.5	0.6439067	5	0.6834666	10	0.7272495
Hexachlorocyclopentadiene			1	0.2489397	2	0.2936375	5	0.2648457	10	0.3025209	20	0.3350343
2,4,6-Trichlorophenol			1	0.2870169	2	0.3015677	5	0.2999683	10	0.3458369	20	0.3696307

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2,4,5-Trichlorophenol			1	0.361223	2	0.3578205	5	0.3421372	10	0.3965594	20	0.4168822
2-Chloronaphthalene	0.2	1.387569	0.5	1.117638	1	1.228189	2.5	1.003208	5	1.047902	10	1.09962
2-Nitroaniline			1	0.26051	2	0.3076886	5	0.2845123	10	0.306839	20	0.3231995
Acenaphthylene	0.2	2.005887	0.5	1.673991	1	1.898856	2.5	1.590349	5	1.636737	10	1.702987
Dimethylphthalate	0.2	1.295168	0.5	1.078779	1	1.237464	2.5	1.021714	5	1.068789	10	1.091726
2,6-Dinitrotoluene			1	0.2174893	2	0.2687518	5	0.2360681	10	0.2543078	20	0.269795
Acenaphthene	0.2	1.320099	0.5	1.046069	1	1.159189	2.5	0.952877	5	0.9829246	10	1.046455
3-Nitroaniline			1	0.263439	2	0.3182529	5	0.2834771	10	0.3087446	20	0.3334424
2,4-Dinitrophenol			2	8.466972E-02	4	0.1170252	10	0.1557072	20	0.2128194	40	0.2507443
Dibenzofuran	0.2	2.022082	0.5	1.603271	1	1.632918	2.5	1.42838	5	1.49489	10	1.561974
4-Nitrophenol			1	0.1081747	2	0.1206784	5	0.1281484	10	0.1510057	20	0.1581896
2,4-Dinitrotoluene			1	0.291987	2	0.3643157	5	0.3201358	10	0.3514687	20	0.3751801
Fluorene	0.2	1.979275	0.5	1.635556	1	1.791286	2.5	1.665158	5	1.52905	10	1.740605
4-Chlorophenylphenyl ether	0.2	0.9377919	0.5	0.7567725	1	0.9613786	2.5	0.7843464	5	0.8023522	10	0.8307589
Diethyl phthalate	0.2	1.509472	0.5	1.277978	1	1.756654	2.5	1.479429	5	1.529598	10	1.532929
4-Nitroaniline			1	0.3178047	2	0.2965212	5	0.241759	10	0.3722485	20	0.4060248
4,6-Dinitro-2-methylphenol	0.8	9.759356E-02	2	0.1159766	4	0.1356499	10	0.146795	20	0.171322	40	0.1898123
N-Nitrosodiphenylamine	0.2	0.7813904	0.5	0.6690073	1	0.7489188	2.5	0.6153566	5	0.622903	10	0.661175
4-Bromophenyl phenyl ether	0.2	0.2868228	0.5	0.240791	1	0.269851	2.5	0.2281866	5	0.2421925	10	0.2596596
Hexachlorobenzene	0.2	0.3466427	0.5	0.2759322	1	0.3079836	2.5	0.2476557	5	0.2580605	10	0.2695389
Pentachlorophenol			1	0.0640113	2	7.966671E-02	5	9.621021E-02	10	0.1283697	20	0.1422698
Phenanthrene	0.2	1.254213	0.5	1.013236	1	1.120205	2.5	0.9147005	5	0.9459468	10	0.9933942
Anthracene	0.2	1.044702	0.5	0.906473	1	1.045236	2.5	0.8974573	5	0.9652021	10	1.020208
Carbazole	0.2	1.021112	0.5	0.888071	1	1.031749	2.5	0.8588563	5	0.8817249	10	0.9675384
Di-n-Butylphthalate	0.2	0.8688936	0.5	0.7908636	1	0.9951583	2.5	0.944274	5	1.107194	10	1.216543
Fluoranthene	0.2	1.416487	0.5	1.176839	1	1.353283	2.5	1.138026	5	1.253927	10	1.307348
Pyrene	0.2	1.499816	0.5	1.279695	1	1.42524	2.5	1.187021	5	1.297954	10	1.370745

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Butylbenzylphthalate	0.2	0.3971468	0.5	0.3500694	1	0.4531885	2.5	0.4347242	5	0.5331431	10	0.5343125
Benzo(a)anthracene	0.2	1.357158	0.5	1.139124	1	1.286088	2.5	1.073783	5	1.163081	10	1.221004
3,3'-Dichlorobenzidine			1.5	0.3560182	3	0.3921513	7.5	0.3181743	15	0.3074182	30	0.3974804
Chrysene	0.2	1.345974	0.5	1.119691	1	1.215346	2.5	0.995944	5	1.070155	10	1.114624
bis(2-Ethylhexyl)phthalate	0.2	0.3956958	0.5	0.3633061	1	0.4722937	2.5	0.4399021	5	0.4595073	10	0.4959663
Di-n-Octylphthalate	0.2	1.203656	0.5	0.9783901	1	1.062281	2.5	0.8652733	5	0.8559596	10	0.8908453
Benzofluoranthenes, Total	0.4	1.323037	1	1.095539	2	1.244146	5	1.065182	10	1.167852	20	1.259214
Benzo(a)pyrene	0.2	1.066264	0.5	0.9048211	1	1.044788	2.5	0.9273461	5	1.03294	10	1.128387
Indeno(1,2,3-cd)pyrene	0.2	1.237356	0.5	1.045968	1	1.215216	2.5	1.074254	5	1.154658	10	1.247956
Dibenzo(a,h)anthracene	0.2	1.080467	0.5	0.8919761	1	1.02679	2.5	0.8964822	5	0.9628485	10	1.063732
Benzo(g,h,i)perylene	0.2	1.090313	0.5	0.8982822	1	1.020279	2.5	0.8945793	5	0.939054	10	1.031269
1-Methylnaphthalene	0.2	0.8101755	0.5	0.6671364	1	0.6728227	2.5	0.6197289	5	0.661132	10	0.6978153
2-Fluorophenol	0.3	1.456024	0.75	1.192829	1.5	1.408281	3.75	1.19259	7.5	1.242464	15	1.255297
Phenol-d5	0.3	1.690921	0.75	1.442174	1.5	1.685939	3.75	1.45879	7.5	1.57335	15	1.611467
2-Chlorophenol-d4	0.3	1.459762	0.75	1.22369	1.5	1.42935	3.75	1.223216	7.5	1.296086	15	1.334425
1,2-Dichlorobenzene-d4	0.2	1.070291	0.5	0.8775768	1	0.9854004	2.5	0.8052268	5	0.849654	10	0.8797075
Nitrobenzene-d5	0.2	0.3603743	0.5	0.2993225	1	0.3461398	2.5	0.306944	5	0.3334126	10	0.3526347
2-Fluorobiphenyl	0.2	1.590987	0.5	1.260855	1	1.468992	2.5	1.200146	5	1.247683	10	1.303056
2,4,6-Tribromophenol			0.75	0.1314566	1.5	0.1781234	3.75	0.1642932	7.5	0.192641	15	0.2085371
p-Terphenyl-d14	0.2	1.112516	0.5	0.9073567	1	1.063354	2.5	0.8607743	5	0.9199812	10	0.9255223

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.680974										
bis(2-chloroethyl) ether	20	1.165055										
2-Chlorophenol	20	1.428978										
1,3-Dichlorobenzene	20	1.439592										
1,4-Dichlorobenzene	20	1.352304										
1,2-Dichlorobenzene	20	1.351887										
Benzyl Alcohol	20	0.8623322										
2,2'-Oxybis(1-chloropropane)	20	0.4097572										
2-Methylphenol	20	1.279195										
Hexachloroethane	20	0.5402442										
N-Nitroso-di-n-Propylamine	20	0.7992017										
4-Methylphenol	20	1.3619										
Nitrobenzene	20	0.3433745										
Isophorone	20	0.5358455										
2-Nitrophenol	20	0.261475										
2,4-Dimethylphenol	40	0.3219617										
Bis(2-Chloroethoxy)methane	20	0.3237199										
2,4-Dichlorophenol	40	0.3002153										
1,2,4-Trichlorobenzene	20	0.3061376										
Naphthalene	20	0.9448258										
Benzoic acid	80	0.2734244										
4-Chloroaniline	40	0.4115465										
Hexachlorobutadiene	20	0.1628415										
4-Chloro-3-Methylphenol	40	0.3015602										
2-Methylnaphthalene	20	0.7506691										
Hexachlorocyclopentadiene	40	0.3692388										
2,4,6-Trichlorophenol	40	0.3991639										

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,5-Trichlorophenol	40	0.437318										
2-Chloronaphthalene	20	1.124676										
2-Nitroaniline	40	0.3220241										
Acenaphthylene	20	1.70286										
Dimethylphthalate	20	1.102727										
2,6-Dinitrotoluene	40	0.2810509										
Acenaphthene	20	1.066498										
3-Nitroaniline	40	0.3491574										
2,4-Dinitrophenol	80	0.2780648										
Dibenzofuran	20	1.614649										
4-Nitrophenol	40	0.1642219										
2,4-Dinitrotoluene	40	0.3926278										
Fluorene	20	1.742016										
4-Chlorophenylphenyl ether	20	0.8421541										
Diethyl phthalate	20	1.646826										
4-Nitroaniline	40	0.4138808										
4,6-Dinitro-2-methylphenol	80	0.2140455										
N-Nitrosodiphenylamine	20	0.7059401										
4-Bromophenyl phenyl ether	20	0.2918486										
Hexachlorobenzene	20	0.2907292										
Pentachlorophenol	40	0.1664906										
Phenanthrene	20	1.058738										
Anthracene	20	1.090063										
Carbazole	20	1.08841										
Di-n-Butylphthalate	20	1.353364										
Fluoranthene	20	1.369675										
Pyrene	20	1.418654										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Butylbenzylphthalate	20	0.5529701										
Benzo(a)anthracene	20	1.241812										
3,3'-Dichlorobenzidine	60	0.4543797										
Chrysene	20	1.150279										
bis(2-Ethylhexyl)phthalate	20	0.4829547										
Di-n-Octylphthalate	20	0.8647859										
Benzofluoranthenes, Total	40	1.352364										
Benzo(a)pyrene	20	1.210557										
Indeno(1,2,3-cd)pyrene	20	1.340235										
Dibenzo(a,h)anthracene	20	1.144126										
Benzo(g,h,i)perylene	20	1.092432										
1-Methylnaphthalene	20	0.7277069										
2-Fluorophenol	30	1.222943										
Phenol-d5	30	1.623181										
2-Chlorophenol-d4	30	1.343825										
1,2-Dichlorobenzene-d4	20	0.8955576										
Nitrobenzene-d5	20	0.3656038										
2-Fluorobiphenyl	20	1.34248										
2,4,6-Tribromophenol	30	0.2318554										
p-Terphenyl-d14	20	0.9317848										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.79952	11.7			RSD (15)	
bis(2-chloroethyl) ether	1.239627	12.7			RSD (15)	
2-Chlorophenol	1.460719	9.9			RSD (15)	
1,3-Dichlorobenzene	1.548936	12.6			RSD (15)	
1,4-Dichlorobenzene	1.467407	13.1			RSD (15)	
1,2-Dichlorobenzene	1.43911	11.4			RSD (15)	
Benzyl Alcohol	0.8011083	6.5			RSD (15)	
2,2'-Oxybis(1-chloropropane)	0.4172325	14.3			RSD (15)	
2-Methylphenol	1.307614	8.7			RSD (15)	
Hexachloroethane	0.5396966	9.7			RSD (15)	
N-Nitroso-di-n-Propylamine	0.7965591	6.0			RSD (15)	
4-Methylphenol	1.379424	7.8			RSD (15)	
Nitrobenzene	0.3354574	8.5			RSD (15)	
Isophorone	0.4275424	13.9			RSD (15)	
2-Nitrophenol	0.2064997	16.6		0.9994	QCOD (0.99)	
2,4-Dimethylphenol	0.3501131	10.3			RSD (15)	
Bis(2-Chloroethoxy)methane	0.3325989	10.8			RSD (15)	
2,4-Dichlorophenol	0.2951237	7.4			RSD (15)	
1,2,4-Trichlorobenzene	0.3191088	12.6			RSD (15)	
Naphthalene	0.9843833	11.8			RSD (15)	
Benzoic acid	0.1508906	65.2		0.9964	QCOD (0.99)	
4-Chloroaniline	0.4059568	2.3			RSD (15)	
Hexachlorobutadiene	0.1583286	9.5			RSD (15)	
4-Chloro-3-Methylphenol	0.2785027	6.7			RSD (15)	
2-Methylnaphthalene	0.7220739	9.4			RSD (15)	
Hexachlorocyclopentadiene	0.3023695	14.7			RSD (15)	
2,4,6-Trichlorophenol	0.3338641	13.4			RSD (15)	
2,4,5-Trichlorophenol	0.3853234	9.7			RSD (15)	
2-Chloronaphthalene	1.144115	11.2			RSD (15)	
2-Nitroaniline	0.3007956	8.0			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Acenaphthylene	1.744524	8.6			RSD (15)	
Dimethylphthalate	1.128052	8.8			RSD (15)	
2,6-Dinitrotoluene	0.2545771	9.4			RSD (15)	
Acenaphthene	1.082016	11.4			RSD (15)	
3-Nitroaniline	0.3094189	10.2			RSD (15)	
2,4-Dinitrophenol	0.1831718	41.8		0.9961	QCOD (0.99)	
Dibenzofuran	1.622595	11.7			RSD (15)	
4-Nitrophenol	0.1384031	16.3		0.9992	QCOD (0.99)	
2,4-Dinitrotoluene	0.3492859	10.6			RSD (15)	
Fluorene	1.726135	8.2			RSD (15)	
4-Chlorophenylphenyl ether	0.8450792	9.1			RSD (15)	
Diethyl phthalate	1.533269	9.7			RSD (15)	
4-Nitroaniline	0.3413732	19.8		0.9965	QCOD (0.99)	
4,6-Dinitro-2-methylphenol	0.1530278	26.9		0.9992	QCOD (0.99)	
N-Nitrosodiphenylamine	0.6863845	9.1			RSD (15)	
4-Bromophenyl phenyl ether	0.2599074	9.3			RSD (15)	
Hexachlorobenzene	0.2852204	11.8			RSD (15)	
Pentachlorophenol	0.1128364	34.9		0.9979	QCOD (0.99)	
Phenanthrene	1.042919	11.1			RSD (15)	
Anthracene	0.9956202	7.4			RSD (15)	
Carbazole	0.9624945	9.2			RSD (15)	
Di-n-Butylphthalate	1.03947	19.1		0.9993	QCOD (0.99)	
Fluoranthene	1.287941	8.0			RSD (15)	
Pyrene	1.354161	7.8			RSD (15)	
Butylbenzylphthalate	0.4650792	16.7		0.9993	QCOD (0.99)	
Benzo(a)anthracene	1.211721	7.9			RSD (15)	
3,3'-Dichlorobenzidine	0.370937	14.8			RSD (15)	
Chrysene	1.144573	9.8			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.4442323	10.9			RSD (15)	
Di-n-Octylphthalate	0.9601702	13.7			RSD (15)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00066	Instrument:	NT14
Calibration Date:	12/30/2022	Column (1):	ZB-5MS

Calibration Comments: 8270E, 625.1 SVOA ICAL

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Benzofluoranthenes, Total	1.215333	9.0			RSD (15)	
Benzo(a)pyrene	1.045015	10.2			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.187949	8.7			RSD (15)	
Dibenzo(a,h)anthracene	1.009489	9.5			RSD (15)	
Benzo(g,h,i)perylene	0.9951726	8.5			RSD (15)	
1-Methylnaphthalene	0.6937882	8.8			RSD (15)	
2-Fluorophenol	1.28149	8.3			RSD (15)	
Phenol-d5	1.583689	6.3			RSD (15)	
2-Chlorophenol-d4	1.330051	6.9			RSD (15)	
1,2-Dichlorobenzene-d4	0.9090592	9.9			RSD (15)	
Nitrobenzene-d5	0.337776	7.7			RSD (15)	
2-Fluorobiphenyl	1.344886	10.3			RSD (15)	
2,4,6-Tribromophenol	0.1844845	19.0		0.9994	QCOD (0.99)	
p-Terphenyl-d14	0.9601842	9.5			RSD (15)	

Printed: 1/4/2023 8:44:50AM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																			
1	0753	NT1422123001.D	SKL0355-TUN1		1	|NO ISTDS FOUND||																		
2	0806	NT1422123002.D	SKL0355-CAL5		1	| 9.18	151013	||11.69	553510	||15.33	305411	||18.38	491708	||23.42	424740	||26.10	395150	||24.44	684951 |					
3	0842	NT1422123003.D	SKL0355-CAL7		1	| 9.18	143300	||11.70	507556	||15.33	290278	||18.38	423275	||23.42	399899	||26.11	359748	||24.44	687276 |					
4	0918	NT1422123004.D	SKL0355-CAL1		1	| 9.18	156948	||11.69	570074	||15.33	297614	||18.37	498496	||23.41	404183	||26.10	371728	||24.44	540769 |					
5	0954	NT1422123005.D	SKL0355-CAL6		1	| 9.18	144388	||11.69	520524	||15.33	291597	||18.38	457445	||23.42	408635	||26.10	373712	||24.44	652062 |					
6	1030	NT1422123006.D	SKL0355-CAL2		1	| 9.18	156057	||11.69	571985	||15.33	301808	||18.37	495600	||23.41	403440	||26.10	378046	||24.44	538411 |					
7	1107	NT1422123007.D	SKL0355-CAL4		1	| 9.18	144333	||11.69	532256	||15.33	287473	||18.37	465065	||23.41	401380	||26.10	368275	||24.44	554407 |					
8	1143	NT1422123008.D	SKL0355-CAL3		1	| 9.18	148086	||11.69	558364	||15.33	288519	||18.37	472142	||23.41	394732	||26.10	370479	||24.44	526757 |					
9	1219	NT1422123009.D	SKL0356-CAL1		1	| 9.18	146141	||11.69	533259	||15.33	275387	||18.37	457503	||23.41	370157	||26.10	345259	||24.44	434329 |					
10	1255	NT1422123010.D			1	| 9.18	150179	||11.69	554597	||15.33	282107	||18.37	470125	||23.41	374625	||26.10	352812	||24.44	438400 |					
11	1331	NT1422123011.D	SKL0355-ICV1		1	| 9.18	145276	||11.69	542519	||15.33	292314	||18.37	478070	||23.42	412507	||26.10	379639	||24.44	590464 |					
12	1408	NT1422123012.D	SKL0355-ICB1		1	| 9.18	174509	||11.69	641934	||15.33	335436	||18.37	560033	||23.41	444498	||26.10	423100	||24.44	541261 |					
13	1516	NT1422123013.D	NOT USING		1	| 9.18	146864	||11.69	550707	||15.33	275006	||18.37	643649	||23.42	583196	||26.11	599166	||24.44	900001 |					
14	1553	NT1422123014.D	SKL0355-ICV2		1	| 9.18	130476	||11.69	484478	||15.33	261445	||18.37	412822	||23.41	349122	||26.10	327130	||24.44	522046 |					
15	1629	NT1422123015.D			1	| 9.18	132066	||11.69	499724	||15.33	257503	||18.37	413048	||23.41	335724	||26.09	308207	||24.44	434247 |					
16	1705	NT1422123016.D	BKK0733-BLK1		1	| 9.18	126906	||11.69	483124	||15.32	256877	||18.37	444495	||23.41	333261	||26.09	320178	||24.44	495841 |					
17	1741	NT1422123017.D	BKK0733-BS1		1	| 9.18	124003	||11.69	465208	||15.33	251001	||18.37	418062	||23.41	342657	||26.10	324681	||24.44	577170 |					
18	1818	NT1422123018.D	BKK0733-BSD1		1	| 9.18	124976	||11.69	467689	||15.33	258016	||18.37	428907	||23.41	356316	||26.09	340564	||24.44	643011 |					
19	1854	NT1422123019.D	22K0399-01		1	| 9.18	121953	||11.69	458530	||15.32	242934	||18.37	396367	||23.41	291013	||26.10	344522	||24.44	561675 |					
20	1930	NT1422123020.D	BKK0733-MS1		1	| 9.18	115884	||11.69	434586	||15.33	230677	||18.38	374636	||23.42	295274	||26.11	347439	||24.44	560195 |					

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																
21	2006	NT1422123021.D	BKK0733-MSD1		1	9.18	115038	11.69	422786	15.33	231453	18.38	377450	23.42	296619	26.11	342779	24.44	551214		
22	2042	NT1422123022.D	22K0399-07		1	9.18	118717	11.69	440463	15.33	235964	18.38	394316	23.42	287701	26.11	334549	24.44	535369		
23	2119	NT1422123023.D	22K0399-08		1	9.18	119344	11.69	442541	15.33	234795	18.38	389401	23.42	283797	26.11	329236	24.44	507254		
24	2155	NT1422123024.D	22K0399-31		1	9.18	120549	11.69	456717	15.33	235065	18.38	385218	23.42	290921	26.12	332471	24.44	522799		
25	2231	NT1422123025.D	22K0399-43		1	9.18	115488	11.69	438973	15.33	230528	18.38	372346	23.42	316873	26.13	312137	24.45	540998		
26	2307	NT1422123026.D	22K0399-44		1	9.18	114799	11.69	429093	15.33	225512	18.38	375444	23.42	344033	26.14	334179	24.45	548267		
27	2343	NT1422123027.D	BKK0733-SRM1		1	9.18	116509	11.69	420160	15.33	224093	18.38	385101	23.42	308820	26.10	324504	24.44	539884		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123002.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123003.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123004.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123005.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123006.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123007.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123008.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123009.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123010.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123011.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123012.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123013.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123014.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123015.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123016.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123017.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123018.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123019.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123020.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123021.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123022.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123023.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123024.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123025.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123026.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123027.D	Data Locked	van, 04-Jan-2023 08:39

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Start Cal Date : 30-DEC-2022 08:06
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Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Calibration File Names:
Level 1: \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
Level 2: \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Level 3: \\target\share\chem3\nt14.i\20221230.b\NT1422123008.D
Level 4: \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
Level 5: \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Level 6: \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
Level 7: \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	20.0000 Level 7	Curve	Coefficients b	m1	m2	%RSD or R^2	
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
170 N,N-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
171 2,3-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
172 2,4-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
173 2,5-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
174 2,6-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
175 3,4-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
176 3,5-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 p-Benzoquinone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
168 Pentachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 4,4'-DDE	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
146 4,4'-DDD	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
147 4,4'-DDT	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
148 Dieldrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
149 TCMX	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
150 DCBP	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
138 Chlorobenzilate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
139 Isodrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
140 Diallate A	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
141 Diallate B	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
142 1,2-Dibromo-3-Chloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
135 2,3,5,6-Tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
136 2,3,4,5-tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
133 Butylatedhydroxytoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
132 3,6-Dimethylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
131 1-Methylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
130 Dibenzothiophene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
129 1-Methylfluorene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
128 N-Hexadecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
127 2-Isopropylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
126 N-Tetradecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
144 alpha-Terpineol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
125 Safrole	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
124 3,4-Dimethylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
123 Acetophenone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
122 Furfuraldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
120 2,3,4,6-Tetrachlorophenol	3081	7674	16275	43442	110018	230505						
	511264						QUAD	0.000e+000	3.55507	-0.40963	0.99950	
178 2-Benzyl-4-Chlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
113 Diphenyl Oxide	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.68258 / 1.36696	1.46194	1.65694	1.39901	1.40938	1.42114	AVRG		1.48542		8.70237	
110 Tetrachloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Integrator : HP RTE
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Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
109 3,4,5-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
181 3,4,6-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
108 4,5,6-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 3,4-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
107 4,5-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
182 4,6-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
185 4-Chloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.81018	0.66714	0.67282	0.61973	0.66113	0.69782						
	0.72771						AVRG		0.69379		8.80958	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
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Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
156 Methyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
157 Ethyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
158 Ethion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
159 4-Nonylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
160 Tetraethyl Tin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
161 1,2,3-Trichloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
162 1,2,3,4-Tetrachloronapthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
163 1,2,3,5,8-Pentachloronaphthal	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
164 1,2,3,4,6,7-Hexachloronaphtha	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
165 1,2,3,4,5,6,7-Heptachloronaph	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
166 Octachloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
167 2,2',4,4',5-Pentabromobipheny	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000
3 Phenol	2.24890 / 1.68097	1.85184	1.76565	1.63746	1.69674	1.71508	AVRG		1.79952		11.65290
4 Bis(2-Chloroethyl)ether	1.54497 / 1.16506	1.24513	1.34222	1.11028	1.12874	1.14099	AVRG		1.23963		12.67426

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
6 2-Chlorophenol	1.76377	1.49520	1.42085	1.31029	1.38064	1.42530					
	1.42898						AVRG		1.46072		9.91755
7 1,3-Dichlorobenzene	1.92803	1.56092	1.67622	1.39005	1.41790	1.42985					
	1.43959						AVRG		1.54894		12.60186
9 1,4-Dichlorobenzene	1.84367	1.46664	1.59210	1.31101	1.34162	1.36450					
	1.35230						AVRG		1.46741		13.08603
11 Benzyl alcohol	0.84244	0.73829	0.78057	0.73007	0.81509	0.83895					
	0.86233						AVRG		0.80111		6.54578
12 1,2-Dichlorobenzene	1.74491	1.46090	1.55926	1.28235	1.32894	1.34553					
	1.35189						AVRG		1.43911		11.40035
13 2-Methylphenol	1.55070	1.32136	1.27021	1.19752	1.25874	1.27557					
	1.27919						AVRG		1.30761		8.66486
14 2,2'-oxybis(1-Chloropropane)	4140	8044	16940	31485	74627	133200					
	293591						QUAD	0.000e+000	2.78633	-0.16655	0.99920

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
15 4-Methylphenol	1.60359	1.37883	1.33968	1.25105	1.35115	1.36976					
	1.36190						AVRG		1.37942		7.80273
16 N-Nitroso-di-n-propylamine	0.85978	0.74234	0.85548	0.74063	0.78275	0.79574					
	0.79920						AVRG		0.79656		6.00606
17 Hexachloroethane	0.64302	0.51899	0.56365	0.48174	0.50750	0.52274					
	0.54024						AVRG		0.53970		9.67545
19 Nitrobenzene	0.38858	0.31676	0.34528	0.30001	0.31981	0.33438					
	0.34337						AVRG		0.33546		8.46069
20 Isophorone	0.41707	0.35155	0.41420	0.37912	0.43434	0.46068					
	0.53585						AVRG		0.42754		13.92975
21 2-Nitrophenol	6191	12069	24295	59106	151231	296338					
	663566						QUAD	0.000e+000	4.88934	-0.81682	0.99956
22 2,4-Dimethylphenol	0.41838	0.35700	0.33381	0.31628	0.33024	0.37311					
	0.32196						AVRG		0.35011		10.32149

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
23 Bis(2-Chloroethoxy)methane	0.40342	0.32697	0.35335	0.29913	0.30611	0.31548					
	0.32372						AVRG		0.33260		10.75114
24 Benzoic acid	+++++	14207	45663	205762	622705	1255023					
	2775564						QUAD	0.000e+000	4.69405	-0.19087	0.99854
25 2,4-Dichlorophenol	18135	40191	83681	173493	392225	839403					
	1523761						QUAD	0.000e+000	3.18639	0.04188	0.99824
26 1,2,4-Trichlorobenzene	0.39956	0.32457	0.33511	0.28187	0.28873	0.29778					
	0.30614						AVRG		0.31911		12.59456
28 Naphthalene	1.22153	0.96762	1.03469	0.87394	0.90804	0.94004					
	0.94483						AVRG		0.98438		11.77442
29 4-Chloroaniline	+++++	0.39479	0.41545	0.39900	0.39947	0.41549					
	0.41155						AVRG		0.40596		2.27753
30 Hexachlorobutadiene	0.18755	0.15475	0.16129	0.13979	0.14803	0.15405					
	0.16284						AVRG		0.15833		9.52389

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
	20.0000 Level 7										
31 4-Chloro-3-methylphenol	+++++	0.27037	0.26013	0.25792	0.28409	0.29695					
	0.30156						AVRG		0.27850		6.67952
32 2-Methylnaphthalene	0.85536	0.69400	0.69986	0.64391	0.68347	0.72725					
	0.75067						AVRG		0.72207		9.37452
33 Hexachlorocyclopentadiene	+++++	0.24894	0.29364	0.26485	0.30252	0.33503					
	0.36924						AVRG		0.30237		14.69946
34 2,4,6-Trichlorophenol	+++++	0.28702	0.30157	0.29997	0.34584	0.36963					
	0.39916						AVRG		0.33386		13.44409
35 2,4,5-Trichlorophenol	+++++	0.36122	0.35782	0.34214	0.39656	0.41688					
	0.43732						AVRG		0.38532		9.72979
37 2-Chloronaphthalene	1.38757	1.11764	1.22819	1.00321	1.04790	1.09962					
	1.12468						AVRG		1.14411		11.19934
38 2-Nitroaniline	+++++	0.26051	0.30769	0.28451	0.30684	0.32320					
	0.32202						AVRG		0.30080		8.04051

ARI Labs, Inc.

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Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20.0000 Level 7											
39 Dimethylphthalate	1.29517	1.07878	1.23746	1.02171	1.06879	1.09173						
	1.10273						AVRG		1.12805		8.79864	
40 Acenaphthylene	2.00589	1.67399	1.89886	1.59035	1.63674	1.70299						
	1.70286						AVRG		1.74452		8.62862	
41 2,6-Dinitrotoluene	+++++	0.21749	0.26875	0.23607	0.25431	0.26979						
	0.28105						AVRG		0.25458		9.38069	
43 3-Nitroaniline	+++++	0.26344	0.31825	0.28348	0.30874	0.33344						
	0.34916						AVRG		0.30942		10.24241	
44 Acenaphthene	1.32010	1.04607	1.15919	0.95288	0.98292	1.04646						
	1.06650						AVRG		1.08202		11.44000	
45 2,4-Dinitrophenol	+++++	0.08467	0.11703	0.15571	0.21282	0.25074						
	0.27806						AVRG		0.18317		41.77892	<-
46 Dibenzofuran	2.02208	1.60327	1.63292	1.42838	1.49489	1.56197						
	1.61465						AVRG		1.62260		11.74300	

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
47 4-Nitrophenol	+++++ / 476700	8162	17409	46049	115297	230638	QUAD	0.000e+000	6.75734	-0.41335	0.99959
48 2,4-Dinitrotoluene	+++++ / 0.39263	0.29199	0.36432	0.32014	0.35147	0.37518	AVRG		0.34929		10.64521
49 Fluorene	1.97928 / 1.74202	1.63556	1.79129	1.66516	1.52905	1.74061	AVRG		1.72614		8.17761
50 Diethylphthalate	1.50947 / 1.64683	1.27798	1.75665	1.47943	1.52960	1.53293	AVRG		1.53327		9.65346
51 4-Chlorophenyl-phenylether	0.93779 / 0.84215	0.75677	0.96138	0.78435	0.80235	0.83076	AVRG		0.84508		9.12091
52 4-Nitroaniline	+++++ / 1201405	23979	42776	86874	284222	591978	QUAD	0.000e+000	2.68791	-0.06783	0.99758
53 4,6-Dinitro-2-methylphenol	+++++ / 1812002	28739	64046	170673	421202	868287	QUAD	0.000e+000	5.95957	-0.30276	0.99955

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54 N-Nitrosodiphenylamine	0.78139	0.66901	0.74892	0.61536	0.62290	0.66118					
	0.70594						AVRG		0.68638		9.08506
56 4-Bromophenyl-phenylether	0.28682	0.24079	0.26985	0.22819	0.24219	0.25966					
	0.29185						AVRG		0.25991		9.33117
57 Hexachlorobenzene	0.34664	0.27593	0.30798	0.24766	0.25806	0.26954					
	0.29073						AVRG		0.28522		11.80503
58 Pentachlorophenol	+++++	7931	18807	55930	157801	325403					
	704713						QUAD	0.000e+000	8.09980	-1.26443	0.99905
60 Phenanthrene	1.25421	1.01324	1.12021	0.91470	0.94595	0.99339					
	1.05874						AVRG		1.04292		11.07498
61 Anthracene	1.04470	0.90647	1.04524	0.89746	0.96520	1.02021					
	1.09006						AVRG		0.99562		7.43791
62 Carbazole	1.02111	0.88807	1.03175	0.85886	0.88172	0.96754					
	1.08841						AVRG		0.96249		9.18725

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63 Di-n-butylphthalate	21657	48994	117464	274468	680520	1391254					
	2864226						QUAD	0.000e+000	0.92185	-0.02722	0.99955
64 Fluoranthene	1.41649	1.17684	1.35328	1.13803	1.25393	1.30735					
	1.36968						AVRG		1.28794		8.00806
65 Pyrene	1.49982	1.27969	1.42524	1.18702	1.29795	1.37075					
	1.41865						AVRG		1.35416		7.82345
67 Butylbenzylphthalate	8026	17654	44722	109056	283059	545847					
	1105661						QUAD	0.000e+000	1.95943	-0.05530	0.99953
68 Benzo(a)anthracene	1.35716	1.13912	1.28609	1.07378	1.16308	1.22100					
	1.24181						AVRG		1.21172		7.85360
70 3,3'-Dichlorobenzidine	+++++	0.35602	0.39215	0.31817	0.30742	0.39748					
	0.45438						AVRG		0.37094		14.84368
71 Chrysene	1.34597	1.11969	1.21535	0.99594	1.07015	1.11462					
	1.15028						AVRG		1.14457		9.75175

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72 bis(2-Ethylhexyl)phthalate	0.39570	0.36331	0.47229	0.43990	0.45951	0.49597					
	0.48295						AVRG		0.44423		10.92030
73 Di-n-octylphthalate	1.20366	0.97839	1.06228	0.86527	0.85596	0.89085					
	0.86479						AVRG		0.96017		13.69944
74 Benzo(b)fluoranthene	1.29643	1.06474	1.31960	1.11886	1.25593	1.32801					
	1.41604						AVRG		1.25709		9.84273
75 Benzo(k)fluoranthene	1.45095	1.20794	1.28150	1.10572	1.19408	1.30815					
	1.40788						AVRG		1.27946		9.53602
187 Total Benzofluoranthenes	1.32304	1.09554	1.24415	1.06518	1.16785	1.25921					
	1.35236						AVRG		1.21533		9.03129
76 Benzo(a)pyrene	1.06626	0.90482	1.04479	0.92735	1.03294	1.12839					
	1.21056						AVRG		1.04501		10.22109
78 Indeno(1,2,3-cd)pyrene	1.23736	1.04597	1.21522	1.07425	1.15466	1.24796					
	1.34024						AVRG		1.18795		8.70548

ARI Labs, Inc.

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79 Dibenzo(a,h)anthracene	1.08047	0.89198	1.02679	0.89648	0.96285	1.06373					
	1.14413						AVRG		1.00949		9.49823
80 Benzo(g,h,i)perylene	1.09031	0.89828	1.02028	0.89458	0.93905	1.03127					
	1.09243						AVRG		0.99517		8.51662
90 N-Nitrosodimethylamine	1.05149	0.88437	0.97997	0.83613	0.85202	0.84122					
	0.73278						AVRG		0.88257		11.81707
91 Aniline	2.10293	1.73319	1.83176	1.59251	1.65533	1.69345					
	1.65597						AVRG		1.75216		9.81075
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
93 Benzidine	+++++	50054	95074	194169	482728	1160731					
	2468777						QUAD	0.000e+000	2.04434	-0.06983	0.99754
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

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Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	
103 Pyridine	3.35054 / 2.21804	2.84937	3.26505	2.69575	2.65192	2.60034	AVRG		2.80443		14.06111	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20.0000 Level 7											
188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	1.45602	1.19283	1.40828	1.19259	1.24246	1.25530						
	1.22294						AVRG		1.28149		8.30362	
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	1.69092	1.44217	1.68594	1.45879	1.57335	1.61147						
	1.62318						AVRG		1.58369		6.31534	
$ 5 2-Chlorophenol-d4	1.45976	1.22369	1.42935	1.22322	1.29609	1.33442						
	1.34383						AVRG		1.33005		6.91635	
$ 10 1,2-Dichlorobenzene-d4	1.07029	0.87758	0.98540	0.80523	0.84965	0.87971						
	0.89556						AVRG		0.90906		9.85632	

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 18 Nitrobenzene-d5	0.36037	0.29932	0.34614	0.30694	0.33341	0.35263					
	0.36560						AVRG		0.33778		7.66710
$ 36 2-Fluorobiphenyl	1.59099	1.26085	1.46899	1.20015	1.24768	1.30306					
	1.34248						AVRG		1.34489		10.30227
$ 55 2,4,6-Tribromophenol	+++++	7439	19272	44278	110315	228033					
	504769						QUAD	0.000e+000	5.34233	-0.59550	0.99961
$ 66 Terphenyl-d14	1.11252	0.90736	1.06335	0.86077	0.91998	0.92552					
	0.93178						AVRG		0.96018		9.52115
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++					
	+++++						AVRG		0.000e+000		0.000e+000

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 30-DEC-2022 08:06
End Cal Date : 30-DEC-2022 11:43
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Last Edit : 30-Dec-2022 17:01 deenayd

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT1422123002	NT1422123003	NT1422123004	NT1422123005	NT1422123006	NT1422123007	NT1422123008
INJ.DATE:	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022	30-DEC-2022
INJ.TIME:	08:06	08:42	09:18	09:54	10:30	11:07	11:43

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	6.935	6.943	6.935	6.935	6.935	6.935	6.935	6.935	3.935-9.935	6.936	0.003
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.645	5.645-11.645	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.455	14.455-20.455	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.696	17.696-23.696	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.219	16.219-22.219	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	22.949	19.949-25.949	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.503	17.503-23.503	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	7.827	4.827-10.827	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.383	13.383-19.383	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.437	24.445	24.437	24.437	24.437	24.437	24.437	24.437	21.437-27.437	24.438	0.003
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.571	12.571-18.571	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.447	8.447-14.447	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	10.252	7.252-13.252	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.052	16.060	16.052	16.052	16.052	16.052	16.052	16.052	13.052-19.052	16.053	0.003
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.761	13.761-19.761	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.923	13.923-19.923	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.085	11.085-17.085	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	16.747	16.763	16.747	16.755	16.747	16.747	16.747	16.747	13.747-19.747	16.751	0.006
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.140	14.140-20.140	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.120	10.120-16.120	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.096	11.096-17.096	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.735	8.735-14.735	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.243	6.243-12.243	+++++	+++++
	105 1-methylnaphthalene	13.360	13.368	13.360	13.360	13.360	13.360	13.360	13.360	10.360-16.360	13.361	0.003
	151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
	152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
	153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.642	24.642-30.642	+++++	+++++
	154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.953	22.953-28.953	+++++	+++++
	155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.750	24.750-30.750	+++++	+++++
	156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.464	23.464-29.464	+++++	+++++
	157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.099	24.099-30.099	+++++	+++++
	158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.513	21.513-27.513	+++++	+++++
	159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.132	22.132-28.132	+++++	+++++
	160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.528	16.528-22.528	+++++	+++++
	161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
	162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
	163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
	164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
	165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
	166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
	167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$	2 Phenol-d5	8.527	8.542	8.519	8.535	8.519	8.527	8.519	8.527	5.527-11.527	8.527	0.009
	3 Phenol	8.550	8.565	8.542	8.550	8.542	8.542	8.542	8.550	5.550-11.550	8.548	0.008
	4 Bis(2-Chloroethyl)ethe	8.720	8.728	8.720	8.720	8.720	8.720	8.720	8.720	5.720-11.720	8.721	0.003
$	5 2-Chlorophenol-d4	8.820	8.828	8.813	8.820	8.813	8.813	8.813	8.820	5.820-11.820	8.817	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	8.843	8.851	8.844	8.844	8.844	8.844	8.844	8.843	5.843-11.843	8.845	0.003
	7 1,3-Dichlorobenzene	9.122	9.122	9.122	9.122	9.114	9.122	9.122	9.122	6.122-12.122	9.121	0.003
*	8 1,4-Dichlorobenzene-d4	9.184	9.184	9.184	9.184	9.184	9.184	9.184	9.184	6.184-12.184	9.184	0.000
	9 1,4-Dichlorobenzene	9.215	9.223	9.215	9.215	9.215	9.215	9.215	9.215	6.215-12.215	9.216	0.003
$	10 1,2-Dichlorobenzene-d4	9.548	9.556	9.549	9.549	9.549	9.549	9.549	9.548	6.548-12.548	9.550	0.003
	11 Benzyl alcohol	9.448	9.463	9.448	9.456	9.448	9.448	9.448	9.448	6.448-12.448	9.451	0.006
	12 1,2-Dichlorobenzene	9.572	9.580	9.572	9.572	9.572	9.572	9.572	9.572	6.572-12.572	9.573	0.003
	13 2-Methylphenol	9.673	9.681	9.673	9.673	9.673	9.673	9.673	9.673	6.673-12.673	9.674	0.003
	14 2,2'-oxybis(1-Chloropr	9.758	9.758	9.759	9.759	9.759	9.759	9.759	9.758	6.758-12.758	9.758	0.000
	15 4-Methylphenol	9.944	9.960	9.937	9.945	9.937	9.945	9.937	9.944	6.944-12.944	9.944	0.008
	16 N-Nitroso-di-n-propyla	10.014	10.038	10.015	10.022	10.015	10.015	10.015	10.014	7.014-13.014	10.019	0.009
	17 Hexachloroethane	10.177	10.177	10.178	10.178	10.178	10.178	10.178	10.177	7.177-13.177	10.178	0.000
$	18 Nitrobenzene-d5	10.286	10.294	10.279	10.286	10.279	10.279	10.279	10.286	7.286-13.286	10.283	0.006
	19 Nitrobenzene	10.317	10.325	10.317	10.317	10.317	10.317	10.317	10.317	7.317-13.317	10.318	0.003
	20 Isophorone	10.775	10.798	10.767	10.775	10.767	10.767	10.767	10.775	7.775-13.775	10.774	0.011
	21 2-Nitrophenol	10.953	10.961	10.954	10.954	10.954	10.954	10.954	10.953	7.953-13.953	10.955	0.003
	22 2,4-Dimethylphenol	11.000	11.015	11.000	11.008	11.000	11.000	11.000	11.000	8.000-14.000	11.003	0.006
	23 Bis(2-Chloroethoxy)met	11.201	11.209	11.202	11.202	11.194	11.202	11.202	11.201	8.201-14.201	11.202	0.004
	24 Benzoic acid	11.201	11.357	11.101	11.271	11.109	11.155	11.116	11.201	8.201-14.201	11.187	0.096
	25 2,4-Dichlorophenol	11.411	11.419	11.403	11.411	11.403	11.403	11.403	11.411	8.411-14.411	11.408	0.006
	26 1,2,4-Trichlorobenzene	11.604	11.612	11.604	11.604	11.597	11.597	11.604	11.604	8.604-14.604	11.603	0.005
*	27 Naphthalene-d8	11.689	11.697	11.689	11.689	11.689	11.689	11.689	11.689	8.689-14.689	11.690	0.003
	28 Naphthalene	11.735	11.735	11.728	11.736	11.728	11.728	11.728	11.735	8.735-14.735	11.731	0.004
	29 4-Chloroaniline	11.859	11.867	11.852	11.859	11.851	11.852	11.851	11.859	8.859-14.859	11.856	0.006

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.098	12.099	12.099	12.099	12.099	12.099	12.099	12.098	9.098-15.098	12.099	0.000
	31 4-Chloro-3-methylpheno	12.818	12.826	12.811	12.818	12.811	12.811	12.811	12.818	9.818-15.818	12.815	0.006
	32 2-Methylnaphthalene	13.135	13.143	13.136	13.136	13.136	13.136	13.136	13.135	10.135-16.135	13.137	0.003
	33 Hexachlorocyclopentadi	13.607	13.615	13.608	13.608	13.608	13.608	13.608	13.607	10.607-16.607	13.609	0.003
	34 2,4,6-Trichlorophenol	13.754	13.762	13.755	13.755	13.755	13.755	13.755	13.754	10.754-16.754	13.756	0.003
	35 2,4,5-Trichlorophenol	13.824	13.840	13.825	13.832	13.825	13.825	13.825	13.824	10.824-16.824	13.828	0.006
$	36 2-Fluorobiphenyl	13.917	13.925	13.917	13.917	13.917	13.917	13.917	13.917	10.917-16.917	13.918	0.003
	37 2-Chloronaphthalene	14.134	14.142	14.134	14.134	14.134	14.134	14.134	14.134	11.134-17.134	14.135	0.003
	38 2-Nitroaniline	14.389	14.405	14.382	14.389	14.382	14.382	14.382	14.389	11.389-17.389	14.387	0.009
	39 Dimethylphthalate	14.822	14.838	14.815	14.823	14.815	14.815	14.815	14.822	11.822-17.822	14.821	0.009
	40 Acenaphthylene	15.008	15.016	15.009	15.009	15.009	15.009	15.009	15.008	12.008-18.008	15.010	0.003
	41 2,6-Dinitrotoluene	14.954	14.970	14.955	14.962	14.955	14.955	14.955	14.954	11.954-17.954	14.958	0.006
*	42 Acenaphthene-d10	15.325	15.333	15.326	15.326	15.326	15.326	15.326	15.325	12.325-18.325	15.327	0.003
	43 3-Nitroaniline	15.240	15.264	15.233	15.248	15.233	15.233	15.233	15.240	12.240-18.240	15.241	0.012
	44 Acenaphthene	15.395	15.403	15.388	15.395	15.388	15.388	15.388	15.395	12.395-18.395	15.392	0.006
	45 2,4-Dinitrophenol	15.457	15.480	15.442	15.465	15.442	15.450	15.442	15.457	12.457-18.457	15.454	0.015
	46 Dibenzofuran	15.720	15.735	15.712	15.720	15.712	15.720	15.712	15.720	12.720-18.720	15.719	0.008
	47 4-Nitrophenol	15.550	15.573	15.542	15.558	15.542	15.542	15.542	15.550	12.550-18.550	15.550	0.012
	48 2,4-Dinitrotoluene	15.766	15.789	15.759	15.774	15.759	15.759	15.759	15.766	12.766-18.766	15.766	0.012
	49 Fluorene	16.438	16.446	16.431	16.439	16.431	16.431	16.431	16.438	13.438-19.438	16.435	0.006
	50 Diethylphthalate	16.284	16.307	16.277	16.292	16.277	16.277	16.277	16.284	13.284-19.284	16.284	0.012
	51 4-Chlorophenyl-phenyle	16.423	16.431	16.423	16.423	16.423	16.423	16.423	16.423	13.423-19.423	16.424	0.003
	52 4-Nitroaniline	16.516	16.554	16.501	16.524	16.501	16.501	16.501	16.516	13.516-19.516	16.514	0.020
	53 4,6-Dinitro-2-methylph	16.616	16.639	16.601	16.624	16.601	16.609	16.601	16.616	13.616-19.616	16.613	0.015

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	16.670	16.685	16.663	16.670	16.670	16.670	16.663	16.670	13.670-19.670	16.670	0.008
$	55 2,4,6-Tribromophenol	16.971	16.978	16.971	16.971	16.963	16.963	16.963	16.971	13.971-19.971	16.969	0.006
	56 4-Bromophenyl-phenylet	17.433	17.433	17.426	17.434	17.426	17.426	17.426	17.433	14.433-20.433	17.429	0.004
	57 Hexachlorobenzene	17.750	17.758	17.750	17.750	17.750	17.750	17.750	17.750	14.750-20.750	17.751	0.003
	58 Pentachlorophenol	18.106	18.114	18.107	18.106	18.107	18.099	18.107	18.106	15.106-21.106	18.106	0.004
*	59 Phenanthrene-d10	18.377	18.377	18.370	18.377	18.370	18.370	18.370	18.377	15.377-21.377	18.373	0.004
	60 Phenanthrene	18.423	18.431	18.416	18.424	18.416	18.416	18.416	18.423	15.423-21.423	18.420	0.006
	61 Anthracene	18.516	18.524	18.509	18.517	18.509	18.509	18.509	18.516	15.516-21.516	18.513	0.006
	62 Carbazole	18.841	18.849	18.834	18.841	18.834	18.834	18.834	18.841	15.841-21.841	18.838	0.006
	63 Di-n-butylphthalate	19.630	19.630	19.631	19.631	19.631	19.631	19.631	19.630	16.630-22.630	19.631	0.000
	64 Fluoranthene	20.806	20.806	20.799	20.807	20.799	20.799	20.799	20.806	17.806-23.806	20.802	0.004
	65 Pyrene	21.232	21.232	21.225	21.224	21.224	21.225	21.225	21.232	18.232-24.232	21.227	0.004
$	66 Terphenyl-d14	21.510	21.511	21.503	21.503	21.503	21.503	21.503	21.510	18.510-24.510	21.505	0.004
	67 Butylbenzylphthalate	22.424	22.424	22.424	22.424	22.424	22.424	22.424	22.424	19.424-25.424	22.424	0.000
	68 Benzo(a)anthracene	23.384	23.392	23.385	23.385	23.377	23.385	23.385	23.384	20.384-26.384	23.384	0.004
*	69 Chrysene-d12	23.415	23.423	23.408	23.415	23.408	23.408	23.408	23.415	20.415-26.415	23.412	0.006
	70 3,3'-Dichlorobenzidine	23.330	23.346	23.330	23.338	23.330	23.330	23.330	23.330	20.330-26.330	23.334	0.006
	71 Chrysene	23.462	23.470	23.454	23.462	23.454	23.454	23.454	23.462	20.462-26.462	23.459	0.006
	72 bis(2-Ethylhexyl)phtha	23.446	23.446	23.447	23.446	23.439	23.447	23.447	23.446	20.446-26.446	23.445	0.003
	73 Di-n-octylphthalate	24.452	24.453	24.445	24.453	24.445	24.445	24.445	24.452	21.452-27.452	24.448	0.004
	74 Benzo(b)fluoranthene	25.312	25.320	25.297	25.312	25.297	25.305	25.305	25.312	22.312-28.312	25.307	0.009
	75 Benzo(k)fluoranthene	25.358	25.366	25.343	25.359	25.343	25.351	25.343	25.358	22.358-28.358	25.352	0.009
	187 Total Benzofluoranthen	25.358	25.366	25.297	25.359	25.343	25.351	25.305	25.358	22.358-28.358	25.340	0.028
	76 Benzo(a)pyrene	25.985	26.001	25.978	25.986	25.978	25.978	25.978	25.985	22.985-28.985	25.984	0.009

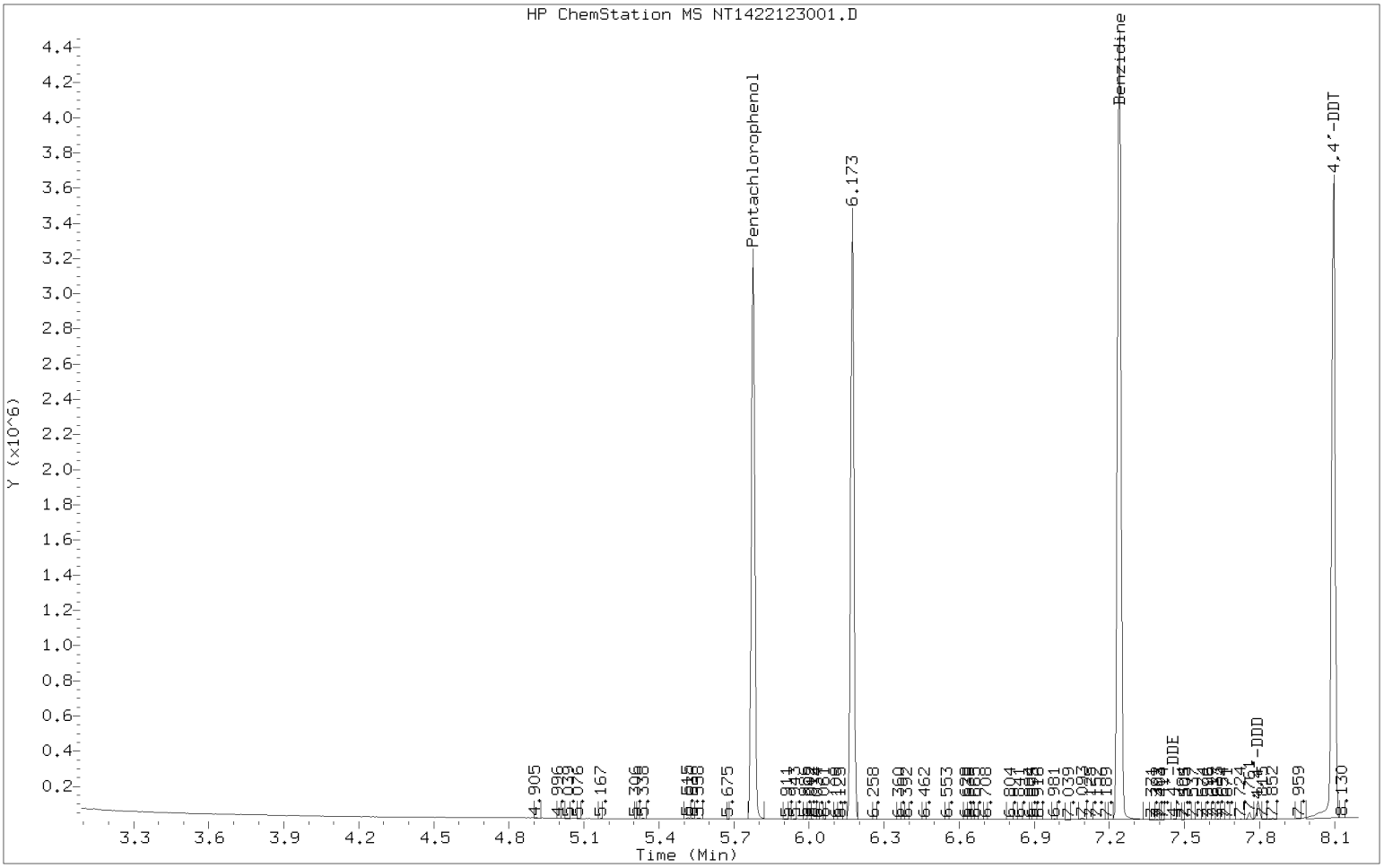
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

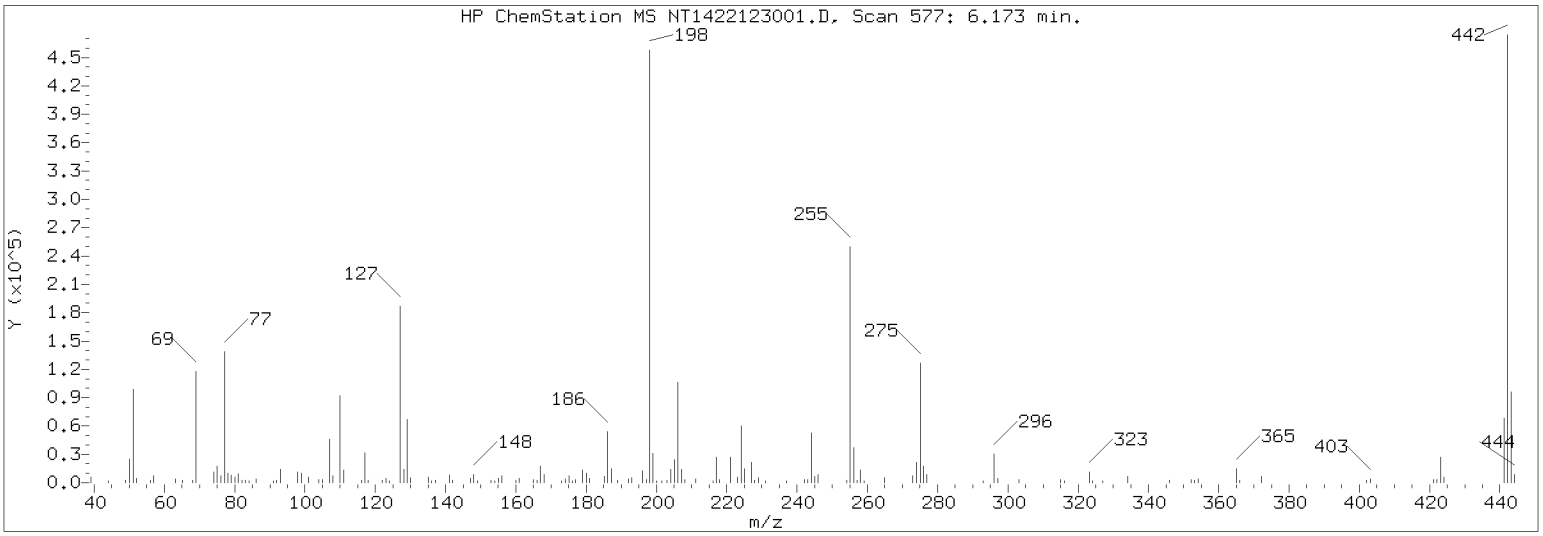
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Batch File: \\target\share\chem3\nt14.i\20221230.b
Inst ID: nt14.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.102	26.110	26.102	26.102	26.102	26.102	26.102	26.102	23.102-29.102	26.103	0.003
	78 Indeno(1,2,3-cd)pyrene	28.869	28.893	28.854	28.870	28.854	28.854	28.854	28.869	25.869-31.869	28.864	0.015
	79 Dibenzo(a,h)anthracene	28.877	28.908	28.862	28.885	28.862	28.862	28.862	28.877	25.877-31.877	28.874	0.018
	80 Benzo(g,h,i)perylene	29.685	29.716	29.662	29.693	29.662	29.670	29.662	29.685	26.685-32.685	29.678	0.021
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	4.749	4.765	4.750	4.757	4.750	4.750	4.750	4.749	1.749-7.749	4.753	0.006
	91 Aniline	8.635	8.643	8.627	8.635	8.627	8.627	8.627	8.635	5.635-11.635	8.632	0.006
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.031	21.031	21.023	21.023	21.023	21.023	21.023	21.031	18.031-24.031	21.025	0.004
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.787	15.787-21.787	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.361	21.361-27.361	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	4.780	4.780	4.819	4.781	4.804	4.788	4.796	4.780	1.780-7.780	4.793	0.015
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

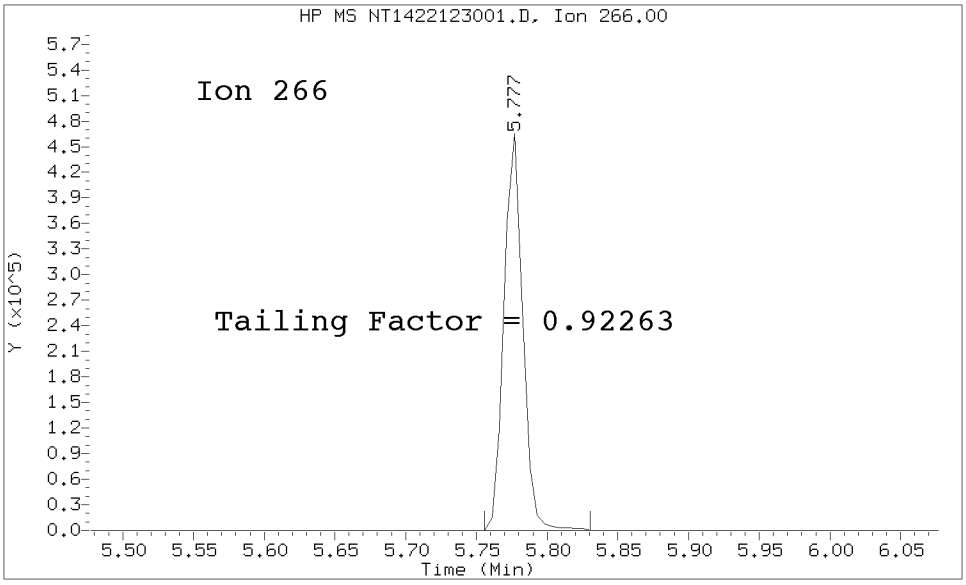
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: VTS
Sample Info: SKL0355-TUN1 SKL0355-TUN1
Report Date: 12/31/2022 15:11



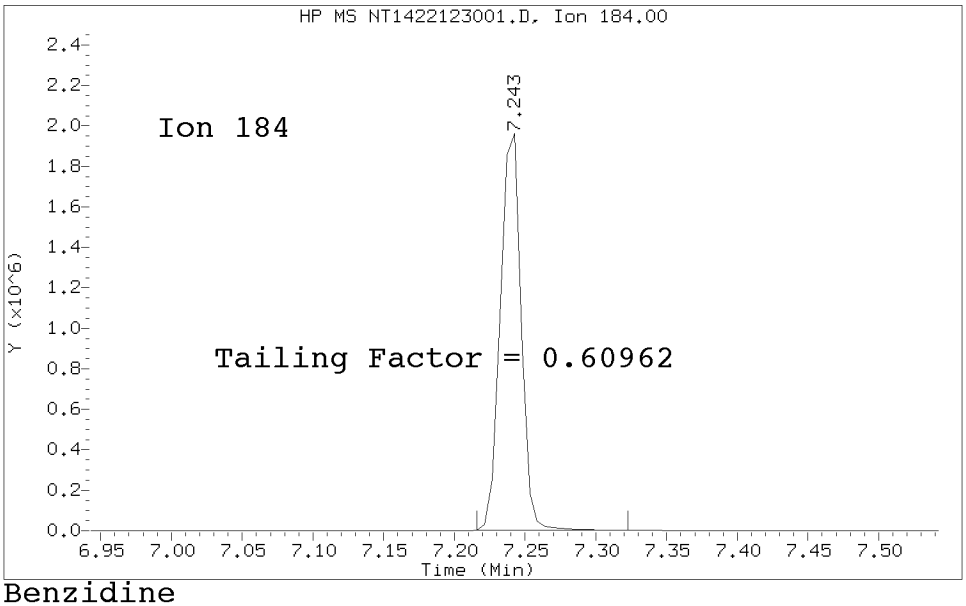


Datafile Analyzed: /20221230.b/NT1422123001.D/NT1422123001.D
Method Used: \20221230.b\DFTPP8270E.m\sw846ddt.m Inst: nt14
Injection Date: 30-DEC-2022 07:53 Operator: JZ
Sample Info: SKL0355-TUN1
Report Date: 12/31/2022 15:11



Pentachlorophenol
==========
Exp. RT = 5.777
Found RT = 5.777

Tail Factor = 0.923 Maximum Allowed = 2.0



Benzidine
==========
Exp. RT = 7.243
Found RT = 7.243

Tail Factor = 0.610 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	0.9226328	2.000	PASS
Benzidine	0.6096154	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	728571			N/A
4,4-DDE	1748	0.2	20.0	PASS
4,4-DDD	25116	3.3	20.0	PASS
4,4-DDD + DDE	26864	3.6	20.0	PASS

Tuning Sample, nt14.i/20221230.b/NT1422123001.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.42 (1.54)
69	Mass 69 relative abundance	27.33
70	Less than 2.00% of mass 69	0.00 (0.00)
197	Less than 2.00% of mass 198	0.70
199	5.00 - 9.00% of mass 198	6.88
365	1.00 - 100.00% of mass 198	3.30
441	Less than 150.00% of mass 443	14.74 (72.29)
442	Less than 200.00% of mass 198	103.05
443	15.00 - 24.00% of mass 442	20.40 (19.79)

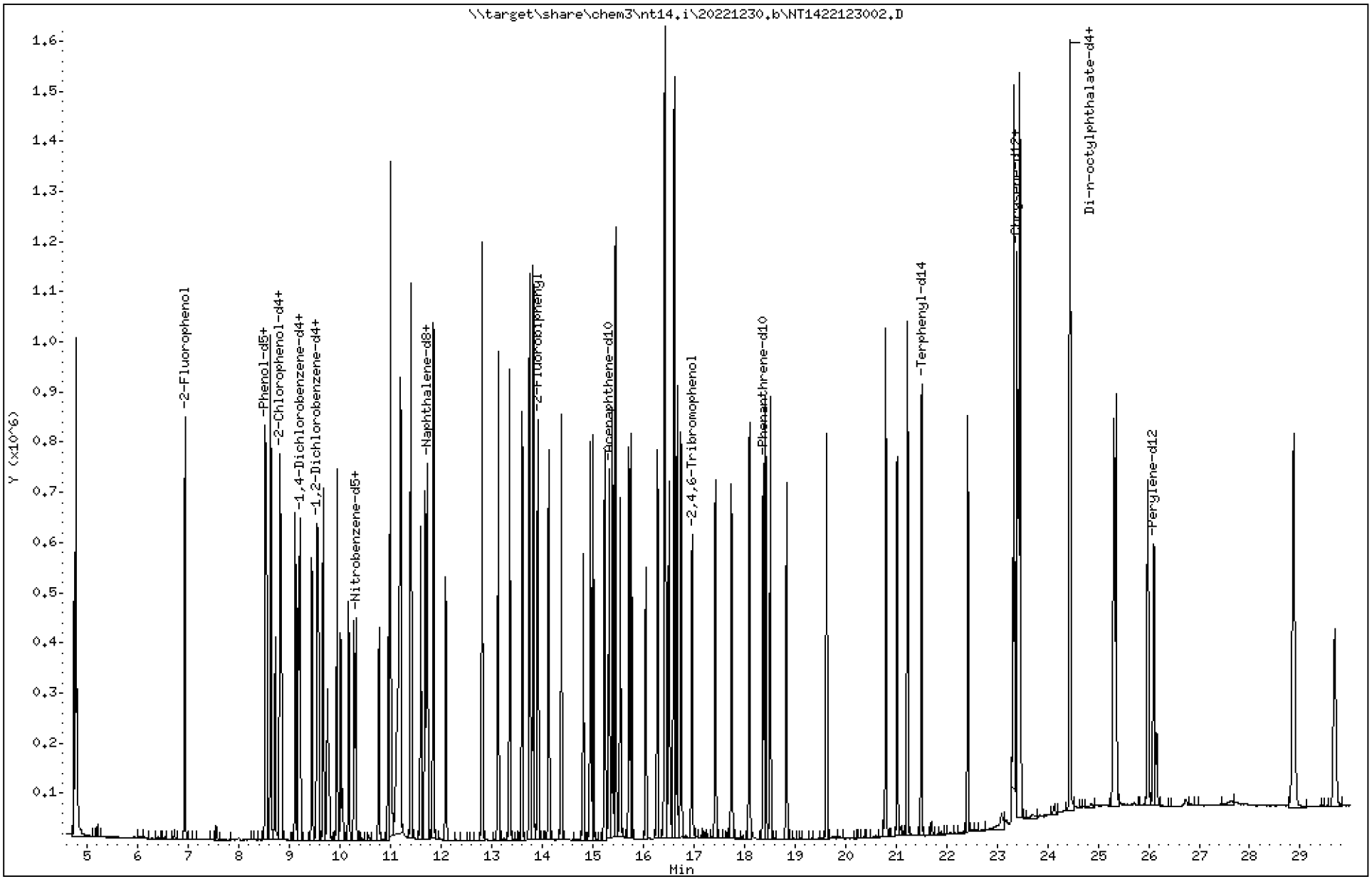
Data File: NT1422123001.D
Spectrum: Avg. Scans 576-578 (6.17), Background Scan 570
Location of Maximum: 442.00
Number of points: 144

m/z	Y	m/z	Y	m/z	Y	m/z	Y
39.00	5632	123.00	3801	193.00	4295	265.00	4182
50.00	21040	124.00	718	196.00	10174	273.00	6187
51.00	85256	127.00	152832	197.00	2556	274.00	16840
52.00	4405	128.00	11309	198.00	363008	275.00	97584
56.00	1965	129.00	55704	199.00	24968	276.00	13253
57.00	6391	130.00	4710	200.00	757	277.00	7167
63.00	3577	135.00	4859	201.00	781	293.00	783
65.00	1506	136.00	670	203.00	839	296.00	24208
68.00	1530	137.00	2423	204.00	11125	297.00	3535
69.00	99200	141.00	6775	205.00	19328	303.00	2963
74.00	9619	142.00	1723	206.00	83840	315.00	2888
75.00	15248	147.00	3621	207.00	11411	316.00	707
76.00	6040	148.00	7518	208.00	2567	323.00	8891
77.00	117336	149.00	668	211.00	3164	324.00	672
78.00	8472	153.00	914	216.00	783	327.00	775
79.00	6850	154.00	788	217.00	21288	334.00	5558
80.00	5401	155.00	4007	218.00	2851	346.00	1586
81.00	7971	156.00	6175	221.00	21128	352.00	2198
82.00	1516	160.00	1664	223.00	4917	353.00	813
83.00	1540	161.00	3469	224.00	47576	354.00	2334
86.00	3530	165.00	2796	225.00	11863	365.00	11977
91.00	1423	166.00	1689	227.00	17616	366.00	809
92.00	1511	167.00	14270	228.00	2547	372.00	5151
93.00	12327	168.00	7598	229.00	4129	402.00	1699
98.00	9312	173.00	740	231.00	741	403.00	2468
99.00	8157	174.00	3118	237.00	720	421.00	2199
101.00	4874	175.00	5843	242.00	2646	422.00	2004
104.00	2893	176.00	710	243.00	2898	423.00	20352
105.00	2773	177.00	2663	244.00	41256	424.00	4730
107.00	38432	179.00	11112	245.00	5346	441.00	53520
108.00	6152	180.00	8200	246.00	6651	442.00	374080
110.00	75432	181.00	3730	254.00	833	443.00	74040
111.00	11047	185.00	5465	255.00	195520	444.00	7022
116.00	1701	186.00	43392	256.00	29104		
117.00	26736	187.00	12254	257.00	2342		
118.00	1522	189.00	1759	258.00	10581		
122.00	2480	192.00	3535	259.00	690		

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Date : 30-DEC-2022 08:06
Client ID:
Sample Info: SKL0355-CAL5

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123002.D
Lab Smp Id: SKL0355-CAL5
Inj Date : 30-DEC-2022 08:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.934	6.934	(0.755)	351803	7.50000	7.272
$	2 Phenol-d5	99	8.526	8.526	(0.928)	445493	7.50000	7.451
	3 Phenol	94	8.549	8.549	(0.931)	320287	5.00000	4.714
$	5 2-Chlorophenol-d4	132	8.820	8.820	(0.960)	366986	7.50000	7.308
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	213068	5.00000	4.553
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	260619	5.00000	4.726
	7 1,3-Dichlorobenzene	146	9.121	9.121	(0.993)	267651	5.00000	4.577
*	8 1,4-Dichlorobenzene-d4	152	9.183	9.183	(1.000)	151013	4.00000	
	9 1,4-Dichlorobenzene	146	9.214	9.214	(1.003)	253252	5.00000	4.571
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	160386	5.00000	4.673
	12 1,2-Dichlorobenzene	146	9.571	9.571	(1.042)	250859	5.00000	4.617
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	153862	5.00000	5.087
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	74627	5.00000	4.738(M)
	13 2-Methylphenol	108	9.672	9.672	(1.053)	237608	5.00000	4.813
	17 Hexachloroethane	117	10.177	10.177	(1.108)	95799	5.00000	4.702
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	147756	5.00000	4.913
	15 4-Methylphenol	108	9.944	9.944	(1.083)	255052	5.00000	4.898
$	18 Nitrobenzene-d5	82	10.285	10.285	(0.880)	230684	5.00000	4.935
	19 Nitrobenzene	77	10.316	10.316	(0.883)	221275	5.00000	4.767
	20 Isophorone	82	10.774	10.774	(0.922)	300513	5.00000	5.079
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	151231	5.00000	5.100
	22 2,4-Dimethylphenol	107	10.999	10.999	(0.941)	456971	10.0000	9.432
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	211797	5.00000	4.602
	24 Benzoic acid	105	11.201	11.201	(0.958)	622705	20.0000	20.16
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	392225	10.0000	9.604
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	199770	5.00000	4.524
*	27 Naphthalene-d8	136	11.688	11.688	(1.000)	553510	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.004)	628260	5.00000	4.612
	29 4-Chloroaniline	127	11.858	11.858	(1.015)	552775	10.0000	9.840
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	102421	5.00000	4.675
	31 4-Chloro-3-methylphenol	107	12.818	12.818	(1.097)	393115	10.0000	10.20
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	472882	5.00000	4.733
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	230983	10.0000	10.01

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	264056	10.0000	10.36
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	302784	10.0000	10.29
$	36 2-Fluorobiphenyl	172	13.916	13.916	(0.908)	476320	5.00000	4.639
	37 2-Chloronaphthalene	162	14.133	14.133	(0.922)	400051	5.00000	4.580
	38 2-Nitroaniline	65	14.389	14.389	(0.939)	234280	10.0000	10.20
	39 Dimethylphthalate	163	14.822	14.822	(0.967)	408025	5.00000	4.737
	40 Acenaphthylene	152	15.008	15.008	(0.979)	624847	5.00000	4.691
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	194171	10.0000	9.989
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	305411	4.00000	
	43 3-Nitroaniline	138	15.240	15.240	(0.994)	235735	10.0000	9.978
	44 Acenaphthene	153	15.394	15.394	(1.005)	375245	5.00000	4.542
	45 2,4-Dinitrophenol	184	15.456	15.456	(1.009)	324987	20.0000	18.84
	46 Dibenzofuran	168	15.719	15.719	(1.026)	570695	5.00000	4.606
	47 4-Nitrophenol	109	15.549	15.549	(1.015)	115297	10.0000	9.968
	48 2,4-Dinitrotoluene	165	15.765	15.765	(1.029)	268356	10.0000	10.06
	50 Diethylphthalate	149	16.283	16.283	(1.063)	583945	5.00000	4.988
	49 Fluorene	166	16.438	16.438	(1.073)	583736	5.00000	4.429
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	306309	5.00000	4.747
	52 4-Nitroaniline	138	16.515	16.515	(1.078)	284222	10.0000	9.771
	53 4,6-Dinitro-2-methylphenol	198	16.615	16.615	(0.904)	421202	20.0000	19.53
	54 N-Nitrosodiphenylamine	169	16.669	16.669	(0.907)	382858	5.00000	4.538
$	55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	110315	7.50000	7.408
	56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	148860	5.00000	4.659
	57 Hexachlorobenzene	284	17.749	17.749	(0.966)	158613	5.00000	4.524
	58 Pentachlorophenol	266	18.106	18.106	(0.985)	157801	10.0000	9.877
*	59 Phenanthrene-d10	188	18.376	18.376	(1.000)	491708	4.00000	
	60 Phenanthrene	178	18.423	18.423	(1.003)	581412	5.00000	4.535
	61 Anthracene	178	18.516	18.516	(1.008)	593247	5.00000	4.847
	62 Carbazole	167	18.841	18.841	(1.025)	541939	5.00000	4.580
	63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	680520	5.00000	4.895
	64 Fluoranthene	202	20.806	20.806	(0.889)	665741	5.00000	4.868
	65 Pyrene	202	21.231	21.231	(0.907)	689116	5.00000	4.792
$	66 Terphenyl-d14	244	21.510	21.510	(0.919)	488441	5.00000	4.791
	67 Butylbenzylphthalate	149	22.423	22.423	(0.958)	283059	5.00000	5.125
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	617509	5.00000	4.799
*	69 Chrysene-d12	240	23.415	23.415	(1.000)	424740	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.329	23.329	(0.996)	489648	15.0000	12.43
	71 Chrysene	228	23.461	23.461	(1.002)	568172	5.00000	4.675
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	393425	5.00000	5.172
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	684951	4.00000	
	73 Di-n-octylphthalate	149	24.452	24.452	(1.001)	732863	5.00000	4.457
	74 Benzo(b)fluoranthene	252	25.311	25.311	(0.970)	620349	5.00000	4.995
	75 Benzo(k)fluoranthene	252	25.358	25.358	(0.972)	589803	5.00000	4.666
	76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	510208	5.00000	4.942
*	77 Perylene-d12	264	26.101	26.101	(1.000)	395150	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.869	28.869	(1.106)	570329	5.00000	4.860
	79 Dibenzo(a,h)anthracene	278	28.876	28.876	(1.106)	475587	5.00000	4.769
	80 Benzo(g,h,i)perylene	276	29.684	29.684	(1.137)	463834	5.00000	4.718(M)
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	321667	10.0000	9.654
	91 Aniline	93	8.634	8.634	(0.940)	624940	10.0000	9.447
	93 Benzidine	184	21.030	21.030	(0.898)	482728	10.0000	8.933
	103 Pyridine	79	4.780	4.780	(0.521)	500593	5.00000	4.728
	105 1-methylnaphthalene	142	13.359	13.359	(1.143)	457429	5.00000	4.765
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.746	16.746	(1.093)	538050	5.00000	4.744

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.358	25.358	(0.972)	1153692	10.0000	9.609
120 2,3,4,6-Tetrachlorophenol	232	16.051	16.051	(1.047)	110018	5.00000	4.910

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123002.D
Lab Smp Id: SKL0355-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	151013	0.00
27 Naphthalene-d8	553510	276755	1107020	553510	0.00
42 Acenaphthene-d10	305411	152706	610822	305411	0.00
59 Phenanthrene-d10	491708	245854	983416	491708	0.00
69 Chrysene-d12	424740	212370	849480	424740	0.00
134 Di-n-octylphthala	684951	342476	1369902	684951	0.00
77 Perylene-d12	395150	197575	790300	395150	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123002.D

Lab ID: SKL0355-CAL5
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 08:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

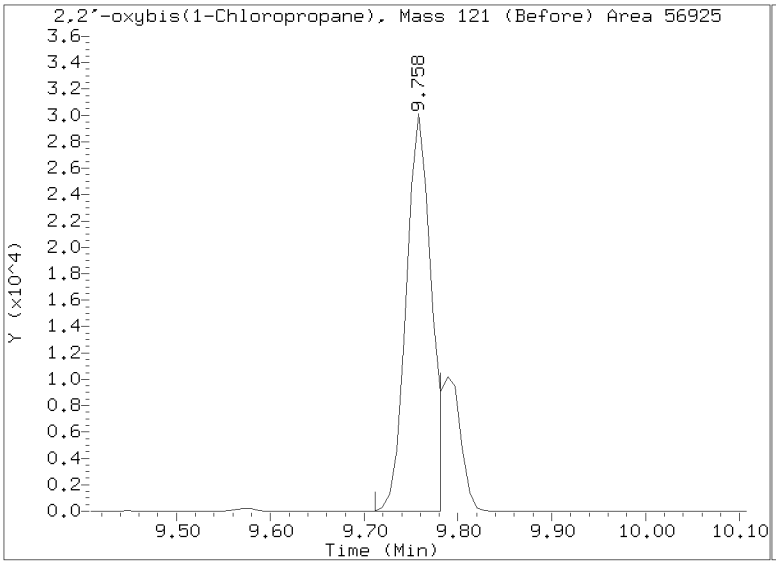
RRT check based on Ccal File: NT1422123002.D

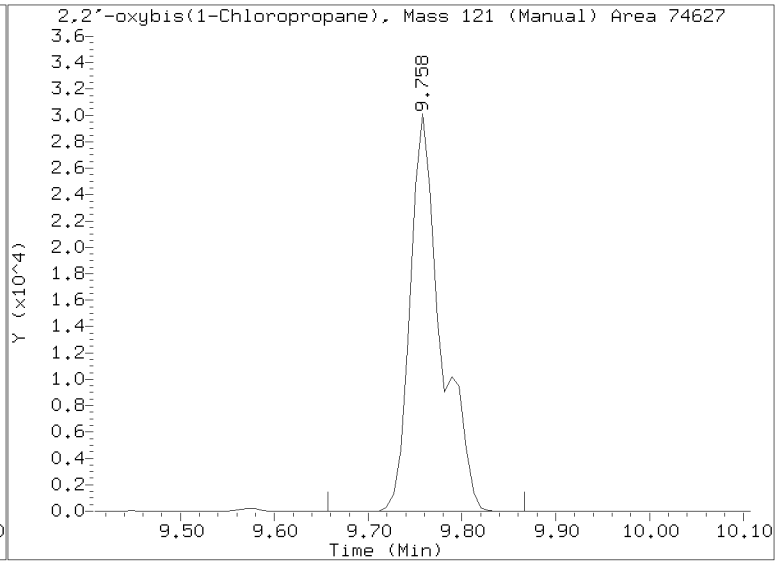
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

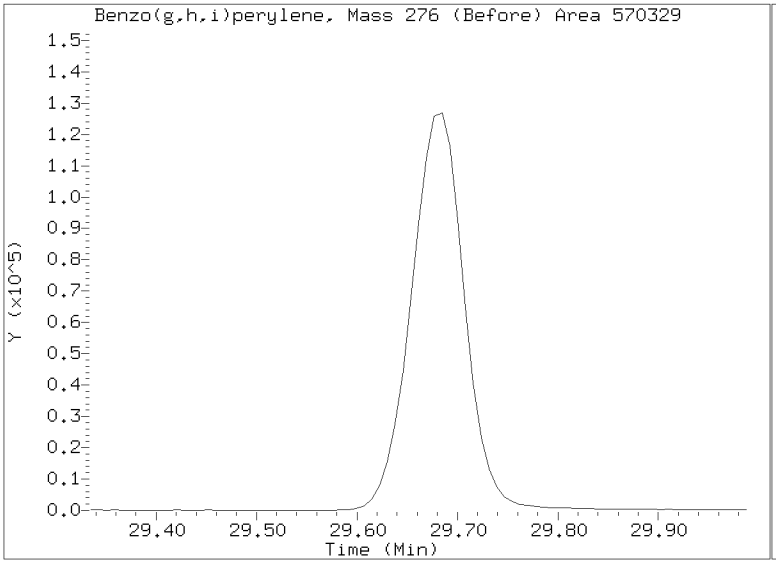
* Only compounds listed in the work order have been verified by the analyst *

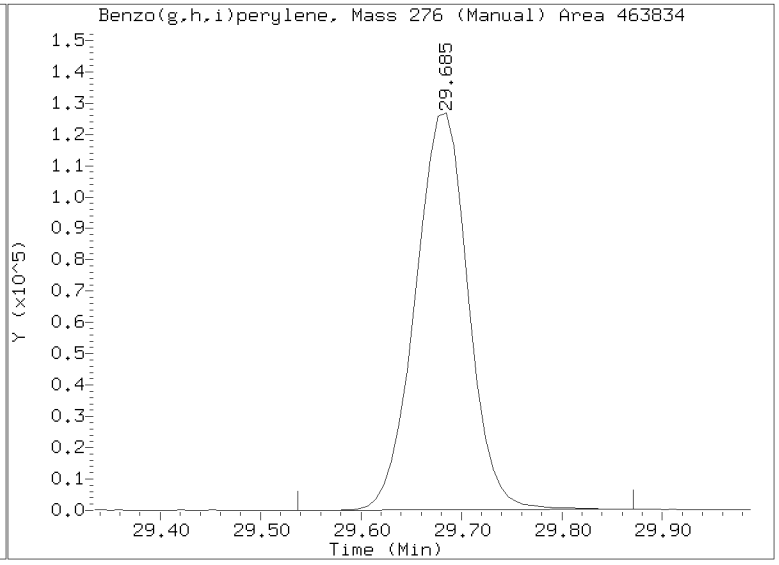
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123002.D
Injection Date: 30-DEC-2022 08:06
Lab ID:SKL0355-CAL5 Client ID:
Report Date: 01/04/2023 08:21





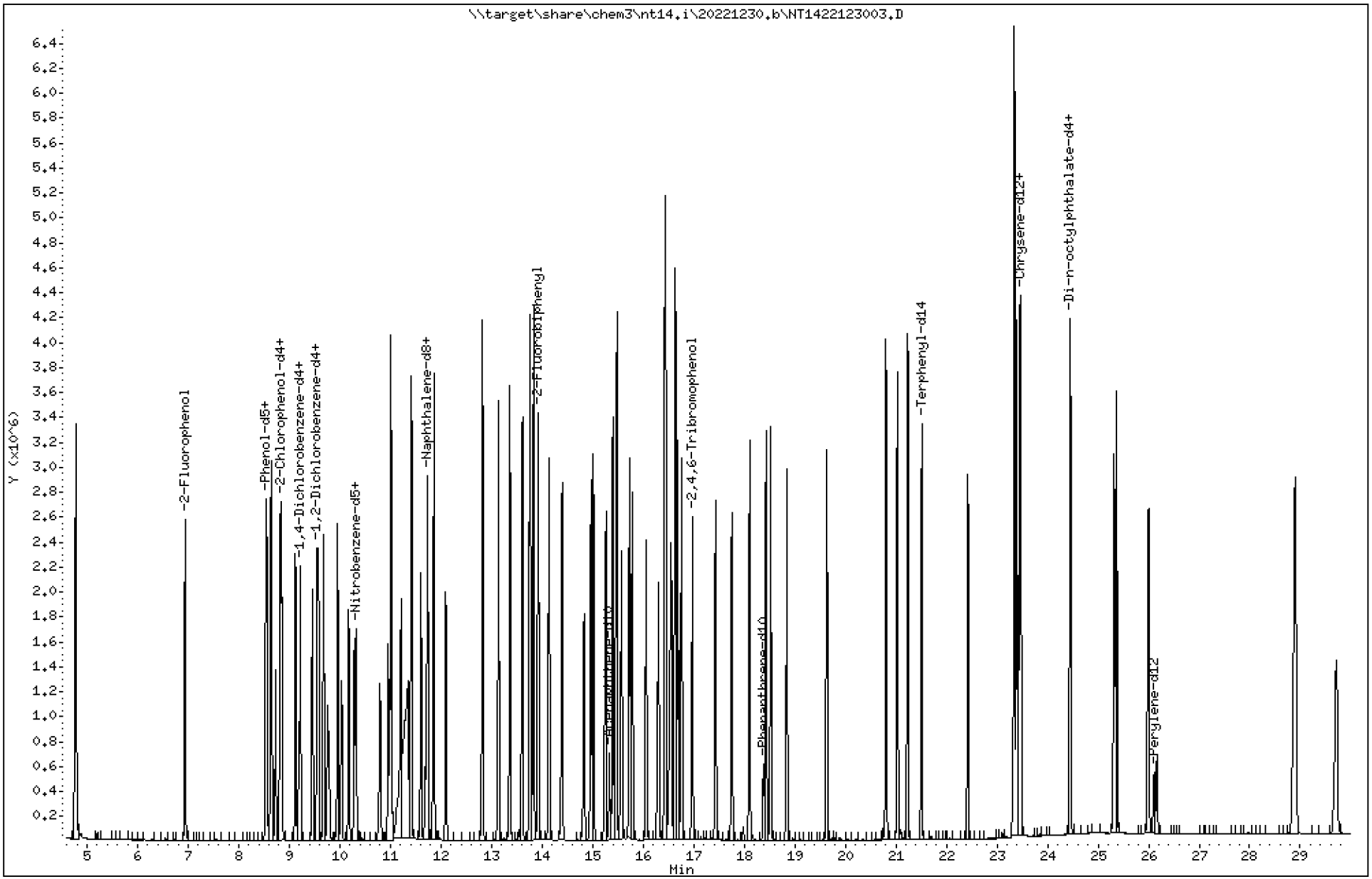




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D
Date : 30-DEC-2022 08:42
Client ID:
Sample Info: SKL0355-CAL7

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123003.D
Lab Smp Id: SKL0355-CAL7
Inj Date : 30-DEC-2022 08:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.942	6.934	(0.756)	1314358	30.0000	28.63
$	2 Phenol-d5	99	8.542	8.526	(0.930)	1744514	30.0000	30.75
	3 Phenol	94	8.565	8.549	(0.933)	1204418	20.0000	18.68
$	5 2-Chlorophenol-d4	132	8.827	8.820	(0.961)	1444276	30.0000	30.31
	4 Bis(2-Chloroethyl)ether	93	8.727	8.719	(0.950)	834762	20.0000	18.80
	6 2-Chlorophenol	128	8.851	8.843	(0.964)	1023863	20.0000	19.57
	7 1,3-Dichlorobenzene	146	9.121	9.121	(0.993)	1031468	20.0000	18.59
*	8 1,4-Dichlorobenzene-d4	152	9.183	9.183	(1.000)	143300	4.00000	
	9 1,4-Dichlorobenzene	146	9.222	9.214	(1.004)	968926	20.0000	18.43
$	10 1,2-Dichlorobenzene-d4	152	9.556	9.548	(1.041)	641667	20.0000	19.70
	12 1,2-Dichlorobenzene	146	9.579	9.571	(1.043)	968627	20.0000	18.79
	11 Benzyl alcohol	108	9.463	9.447	(1.030)	617861	20.0000	21.53
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	293591	20.0000	19.64(M)
	13 2-Methylphenol	108	9.680	9.672	(1.054)	916543	20.0000	19.57
	17 Hexachloroethane	117	10.177	10.177	(1.108)	387085	20.0000	20.02
	16 N-Nitroso-di-n-propylamine	70	10.037	10.014	(1.093)	572628	20.0000	20.07
	15 4-Methylphenol	108	9.960	9.944	(1.085)	975801	20.0000	19.75
$	18 Nitrobenzene-d5	82	10.293	10.285	(0.880)	927822	20.0000	21.65
	19 Nitrobenzene	77	10.324	10.316	(0.883)	871409	20.0000	20.47
	20 Isophorone	82	10.798	10.774	(0.923)	1359858	20.0000	25.07
	21 2-Nitrophenol	139	10.961	10.953	(0.937)	663566	20.0000	19.98
	22 2,4-Dimethylphenol	107	11.015	10.999	(0.942)	1634136	40.0000	36.78
	23 Bis(2-Chloroethoxy)methane	93	11.209	11.201	(0.958)	821530	20.0000	19.47
	24 Benzoic acid	105	11.356	11.201	(0.971)	2775564	80.0000	79.85
	25 2,4-Dichlorophenol	162	11.418	11.410	(0.976)	1523761	40.0000	40.69
	26 1,2,4-Trichlorobenzene	180	11.611	11.604	(0.993)	776910	20.0000	19.19
*	27 Naphthalene-d8	136	11.696	11.688	(1.000)	507556	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.003)	2397760	20.0000	19.20
	29 4-Chloroaniline	127	11.866	11.858	(1.015)	2088829	40.0000	40.55
	30 Hexachlorobutadiene	225	12.098	12.098	(1.034)	413256	20.0000	20.57
	31 4-Chloro-3-methylphenol	107	12.826	12.818	(1.097)	1530587	40.0000	43.31
	32 2-Methylnaphthalene	142	13.143	13.135	(1.124)	1905033	20.0000	20.79
	33 Hexachlorocyclopentadiene	237	13.615	13.607	(0.888)	1071819	40.0000	48.85

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.762	13.754	(0.898)	1158685	40.0000	47.82
35	2,4,5-Trichlorophenol	196	13.839	13.824	(0.903)	1269438	40.0000	45.40
$ 36	2-Fluorobiphenyl	172	13.924	13.916	(0.908)	1948462	20.0000	19.96
37	2-Chloronaphthalene	162	14.141	14.133	(0.922)	1632344	20.0000	19.66
38	2-Nitroaniline	65	14.404	14.389	(0.939)	934765	40.0000	42.82
39	Dimethylphthalate	163	14.838	14.822	(0.968)	1600487	20.0000	19.55
40	Acenaphthylene	152	15.016	15.008	(0.979)	2471514	20.0000	19.52
41	2,6-Dinitrotoluene	165	14.969	14.954	(0.976)	815829	40.0000	44.16
* 42	Acenaphthene-d10	164	15.333	15.325	(1.000)	290278	4.00000	
43	3-Nitroaniline	138	15.263	15.240	(0.995)	1013527	40.0000	45.14
44	Acenaphthene	153	15.402	15.394	(1.005)	1547905	20.0000	19.71
45	2,4-Dinitrophenol	184	15.480	15.456	(1.010)	1614322	80.0000	79.72
46	Dibenzofuran	168	15.735	15.719	(1.026)	2343486	20.0000	19.90
47	4-Nitrophenol	109	15.572	15.549	(1.016)	476700	40.0000	39.93
48	2,4-Dinitrotoluene	165	15.789	15.765	(1.030)	1139712	40.0000	44.96
50	Diethylphthalate	149	16.307	16.283	(1.064)	2390187	20.0000	21.48
49	Fluorene	166	16.446	16.438	(1.073)	2528345	20.0000	20.18
51	4-Chlorophenyl-phenylether	204	16.430	16.423	(1.072)	1222294	20.0000	19.93
52	4-Nitroaniline	138	16.554	16.515	(1.080)	1201405	40.0000	39.85
53	4,6-Dinitro-2-methylphenol	198	16.639	16.615	(0.905)	1812002	80.0000	79.86
54	N-Nitrosodiphenylamine	169	16.685	16.669	(0.908)	1494034	20.0000	20.57
$ 55	2,4,6-Tribromophenol	330	16.978	16.970	(1.107)	504769	30.0000	29.96
56	4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	617661	20.0000	22.46
57	Hexachlorobenzene	284	17.757	17.749	(0.966)	615292	20.0000	20.39
58	Pentachlorophenol	266	18.114	18.106	(0.986)	704713	40.0000	39.92
* 59	Phenanthrene-d10	188	18.377	18.376	(1.000)	423275	4.00000	
60	Phenanthrene	178	18.431	18.423	(1.003)	2240686	20.0000	20.30
61	Anthracene	178	18.524	18.516	(1.008)	2306983	20.0000	21.90
62	Carbazole	167	18.849	18.841	(1.026)	2303484	20.0000	22.62
63	Di-n-butylphthalate	149	19.630	19.630	(1.068)	2864226	20.0000	19.97
64	Fluoranthene	202	20.806	20.806	(0.888)	2738659	20.0000	21.27
65	Pyrene	202	21.232	21.231	(0.906)	2836592	20.0000	20.95
$ 66	Terphenyl-d14	244	21.510	21.510	(0.918)	1863099	20.0000	19.41
67	Butylbenzylphthalate	149	22.424	22.423	(0.957)	1105661	20.0000	19.98
68	Benzo(a)anthracene	228	23.392	23.384	(0.999)	2482996	20.0000	20.50
* 69	Chrysene-d12	240	23.423	23.415	(1.000)	399899	4.00000	
70	3,3'-Dichlorobenzidine	252	23.345	23.329	(0.997)	2725590	60.0000	73.50
71	Chrysene	228	23.469	23.461	(1.002)	2299977	20.0000	20.10
72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	1659616	20.0000	21.74
* 134	Di-n-octylphthalate-d4	153	24.444	24.437	(1.000)	687276	4.00000	
73	Di-n-octylphthalate	149	24.452	24.452	(1.000)	2971733	20.0000	18.01
74	Benzo(b)fluoranthene	252	25.319	25.311	(0.970)	2547081	20.0000	22.53
75	Benzo(k)fluoranthene	252	25.366	25.358	(0.972)	2532408	20.0000	22.01
76	Benzo(a)pyrene	252	26.001	25.985	(0.996)	2177478	20.0000	23.17
* 77	Perylene-d12	264	26.109	26.101	(1.000)	359748	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.892	28.869	(1.107)	2410735	20.0000	22.56
79	Dibenzo(a,h)anthracene	278	28.908	28.876	(1.107)	2057986	20.0000	22.67
80	Benzo(g,h,i)perylene	276	29.715	29.684	(1.138)	1965002	20.0000	21.95
90	N-Nitrosodimethylamine	74	4.764	4.749	(0.519)	1050073	40.0000	33.21
91	Aniline	93	8.642	8.634	(0.941)	2373007	40.0000	37.80
93	Benzidine	184	21.030	21.030	(0.898)	2468777	40.0000	39.84
103	Pyridine	79	4.780	4.780	(0.521)	1589226	20.0000	15.82
105	1-methylnaphthalene	142	13.367	13.359	(1.143)	1846760	20.0000	20.98
111	Azobenzene (1,2-DP-Hydrazine)	77	16.762	16.746	(1.093)	1983985	20.0000	18.40

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.366	25.358	(0.972)	4865104	40.0000	44.51
120 2,3,4,6-Tetrachlorophenol	232	16.059	16.051	(1.047)	511264	20.0000	19.96

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123003.D
Lab Smp Id: SKL0355-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	143300	-5.11
27 Naphthalene-d8	553510	276755	1107020	507556	-8.30
42 Acenaphthene-d10	305411	152706	610822	290278	-4.95
59 Phenanthrene-d10	491708	245854	983416	423275	-13.92
69 Chrysene-d12	424740	212370	849480	399899	-5.85
134 Di-n-octylphthala	684951	342476	1369902	687276	0.34
77 Perylene-d12	395150	197575	790300	359748	-8.96

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.70	0.07
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.05
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.03
77 Perylene-d12	26.10	25.60	26.60	26.11	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123003.D

Lab ID: SKL0355-CAL7
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 08:42

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.971	0.958	0.0126	Benzoic acid

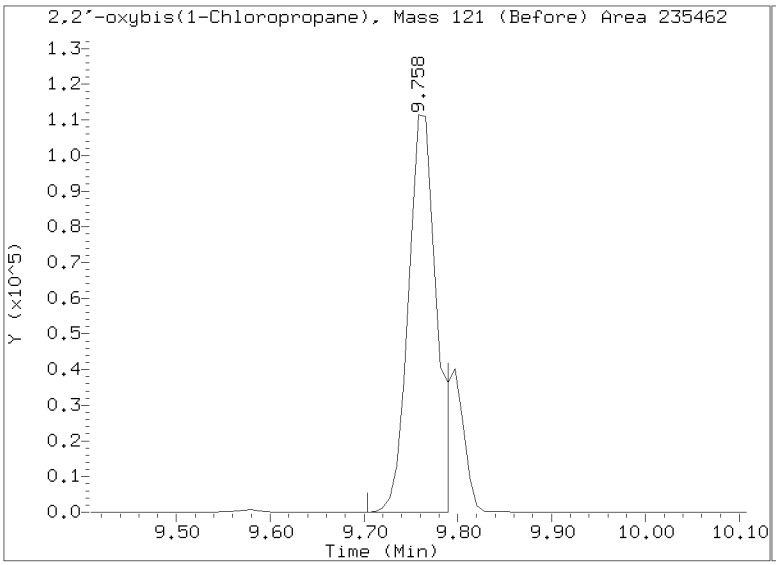
RRT check based on Ccal File: NT1422123002.D

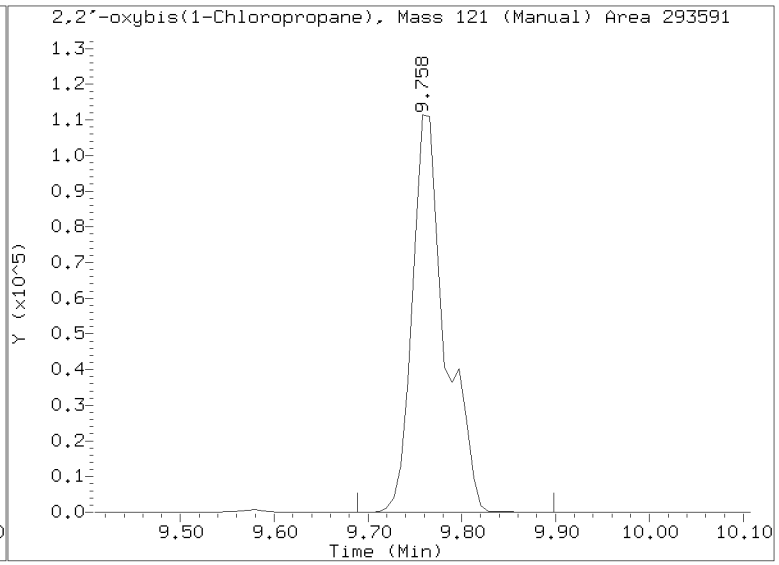
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123003.D
Injection Date: 30-DEC-2022 08:42
Lab ID:SKL0355-CAL7 Client ID:
Report Date: 01/04/2023 08:09





Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D

Page 1

Date : 30-DEC-2022 09:18

Client ID:

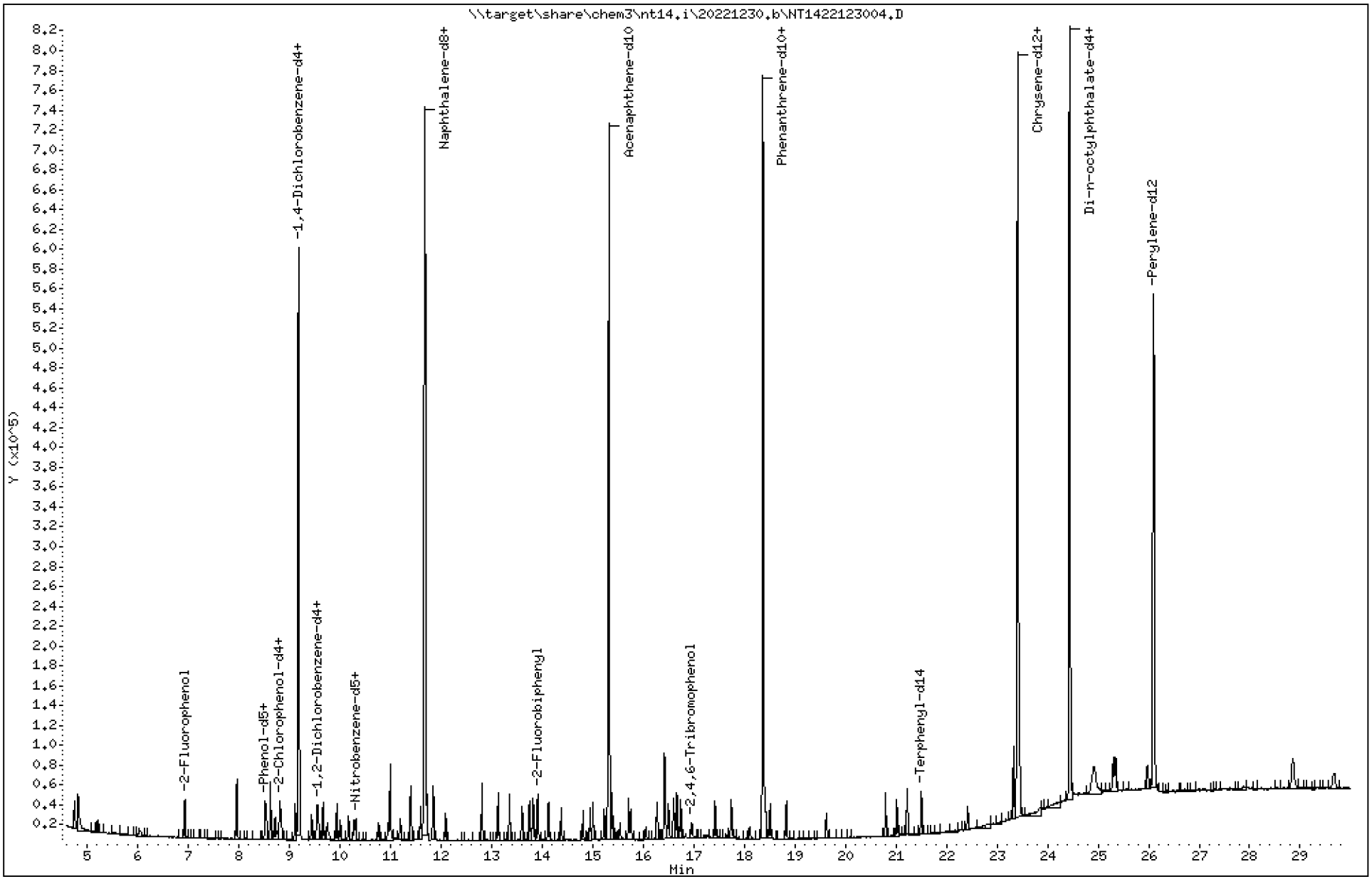
Instrument: nt14.i

Sample Info: SKL0355-CAL1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1498 of 5449

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123004.D
Lab Smp Id: SKL0355-CAL1
Inj Date : 30-DEC-2022 09:18 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	17139	0.30000	0.3409
$	2 Phenol-d5	99	8.519	8.526	(0.928)	19904	0.30000	0.3203
	3 Phenol	94	8.542	8.549	(0.930)	17648	0.20000	0.2499
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	17183	0.30000	0.3293
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	12124	0.20000	0.2493
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	13841	0.20000	0.2415
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	15130	0.20000	0.2489
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	156948	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	14468	0.20000	0.2513
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	8399	0.20000	0.2355
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	13693	0.20000	0.2425
	11 Benzyl alcohol	108	9.448	9.447	(1.029)	6611	0.20000	0.2103
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	4140	0.20000	0.2529(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	12169	0.20000	0.2372
	17 Hexachloroethane	117	10.177	10.177	(1.108)	5046	0.20000	0.2383
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	6747	0.20000	0.2159
	15 4-Methylphenol	108	9.937	9.944	(1.082)	12584	0.20000	0.2325
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	10272	0.20000	0.2134
	19 Nitrobenzene	77	10.317	10.316	(0.883)	11076	0.20000	0.2317
	20 Isophorone	82	10.767	10.774	(0.921)	11888	0.20000	0.1951
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	6191	0.20000	0.2120
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	23851	0.40000	0.4780
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	11499	0.20000	0.2426
	24 Benzoic acid	105	11.100	11.201	(0.950)	3490	0.80000	0.1149(M)
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	18135	0.40000	0.4312
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	11389	0.20000	0.2504
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	570074	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	34818	0.20000	0.2482
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	26250	0.40000	0.4537
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	5346	0.20000	0.2369
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	17455	0.40000	0.4398
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	24381	0.20000	0.2369
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	8437	0.40000	0.3750

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	9231	0.40000	0.3716
35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	11115	0.40000	0.3877
$ 36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	23675	0.20000	0.2366
37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	20648	0.20000	0.2426
38	2-Nitroaniline	65	14.381	14.389	(0.938)	8268	0.40000	0.3694
39	Dimethylphthalate	163	14.815	14.822	(0.967)	19273	0.20000	0.2296
40	Acenaphthylene	152	15.008	15.008	(0.979)	29849	0.20000	0.2300
41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	7046	0.40000	0.3720
* 42	Acenaphthene-d10	164	15.325	15.325	(1.000)	297614	4.00000	
43	3-Nitroaniline	138	15.233	15.240	(0.994)	8294	0.40000	0.3603
44	Acenaphthene	153	15.387	15.394	(1.004)	19644	0.20000	0.2440
45	2,4-Dinitrophenol	184	15.441	15.456	(1.008)	3242	0.80000	0.2015
46	Dibenzofuran	168	15.712	15.719	(1.025)	30090	0.20000	0.2492
47	4-Nitrophenol	109	15.542	15.549	(1.014)	3296	0.40000	0.2991
48	2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	8877	0.40000	0.3416
50	Diethylphthalate	149	16.276	16.283	(1.062)	22462	0.20000	0.1969
49	Fluorene	166	16.431	16.438	(1.072)	29453	0.20000	0.2293
51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	13955	0.20000	0.2219
52	4-Nitroaniline	138	16.500	16.515	(1.077)	10011	0.40000	0.3614
53	4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	9730	0.80000	0.4648
54	N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	19476	0.20000	0.2277
$ 55	2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	3068	0.30000	0.2200
56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	7149	0.20000	0.2207
57	Hexachlorobenzene	284	17.750	17.749	(0.966)	8640	0.20000	0.2431
58	Pentachlorophenol	266	18.106	18.106	(0.986)	3022	0.40000	0.1962
* 59	Phenanthrene-d10	188	18.369	18.376	(1.000)	498496	4.00000	
60	Phenanthrene	178	18.416	18.423	(1.003)	31261	0.20000	0.2405
61	Anthracene	178	18.508	18.516	(1.008)	26039	0.20000	0.2099
62	Carbazole	167	18.833	18.841	(1.025)	25451	0.20000	0.2122
63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	21657	0.20000	0.1600
64	Fluoranthene	202	20.798	20.806	(0.889)	28626	0.20000	0.2200
65	Pyrene	202	21.224	21.231	(0.907)	30310	0.20000	0.2215
$ 66	Terphenyl-d14	244	21.503	21.510	(0.919)	22483	0.20000	0.2317
67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	8026	0.20000	0.1555
68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	27427	0.20000	0.2240
* 69	Chrysene-d12	240	23.407	23.415	(1.000)	404183	4.00000	
70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	24605	0.60000	0.6565
71	Chrysene	228	23.454	23.461	(1.002)	27201	0.20000	0.2352
72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	10699	0.20000	0.1781
* 134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	540769	4.00000	
73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	32545	0.20000	0.2507
74	Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	24096	0.20000	0.2063
75	Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	26968	0.20000	0.2268
76	Benzo(a)pyrene	252	25.978	25.985	(0.995)	19818	0.20000	0.2041
* 77	Perylene-d12	264	26.102	26.101	(1.000)	371728	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	22998	0.20000	0.2083
79	Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	20082	0.20000	0.2141
80	Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	20265	0.20000	0.2191
90	N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	16503	0.40000	0.4766
91	Aniline	93	8.627	8.634	(0.939)	33005	0.40000	0.4801
93	Benzidine	184	21.023	21.030	(0.898)	23015	0.40000	0.4647
103	Pyridine	79	4.819	4.780	(0.525)	26293	0.20000	0.2389
105	1-methylnaphthalene	142	13.360	13.359	(1.143)	23093	0.20000	0.2336
111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	25038	0.20000	0.2265

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.358	(0.969)	49181	0.40000	0.4354
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	3081	0.20000	0.1470

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123004.D
Lab Smp Id: SKL0355-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	156948	3.93
27 Naphthalene-d8	553510	276755	1107020	570074	2.99
42 Acenaphthene-d10	305411	152706	610822	297614	-2.55
59 Phenanthrene-d10	491708	245854	983416	498496	1.38
69 Chrysene-d12	424740	212370	849480	404183	-4.84
134 Di-n-octylphthala	684951	342476	1369902	540769	-21.05
77 Perylene-d12	395150	197575	790300	371728	-5.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123004.D

Lab ID: SKL0355-CAL1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 09:18

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0086	Benzoic acid

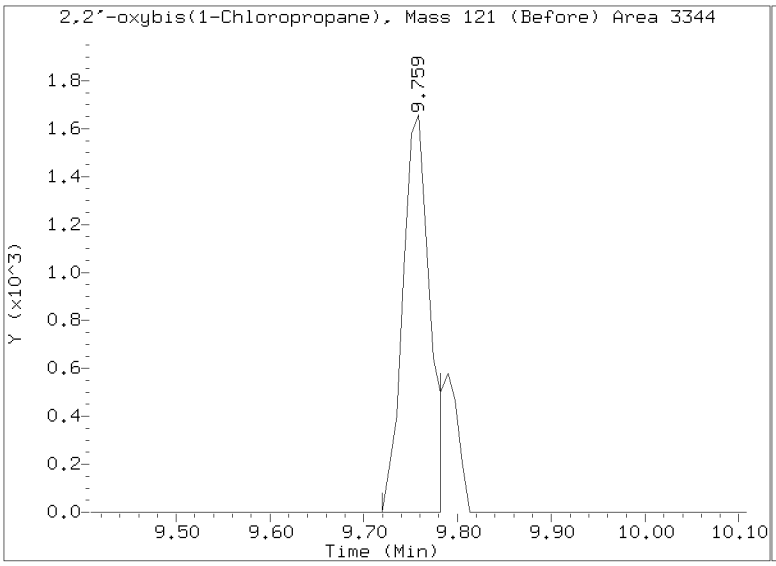
RRT check based on Ccal File: NT1422123002.D

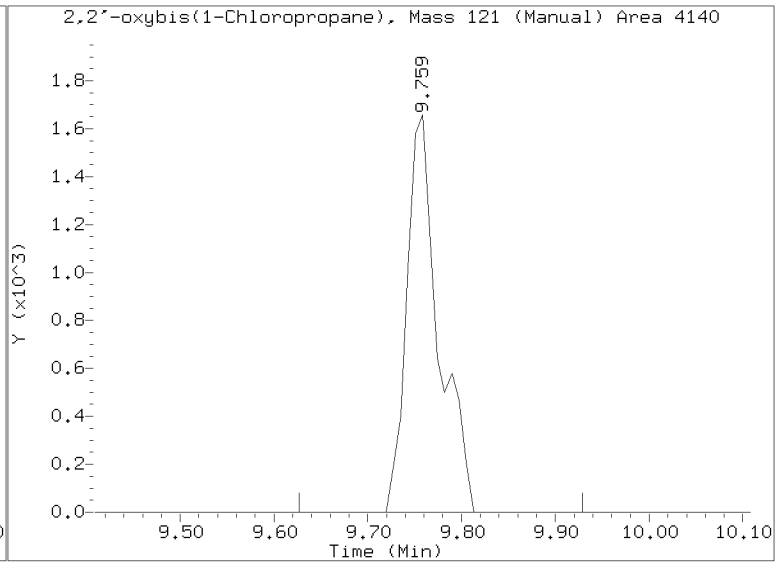
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

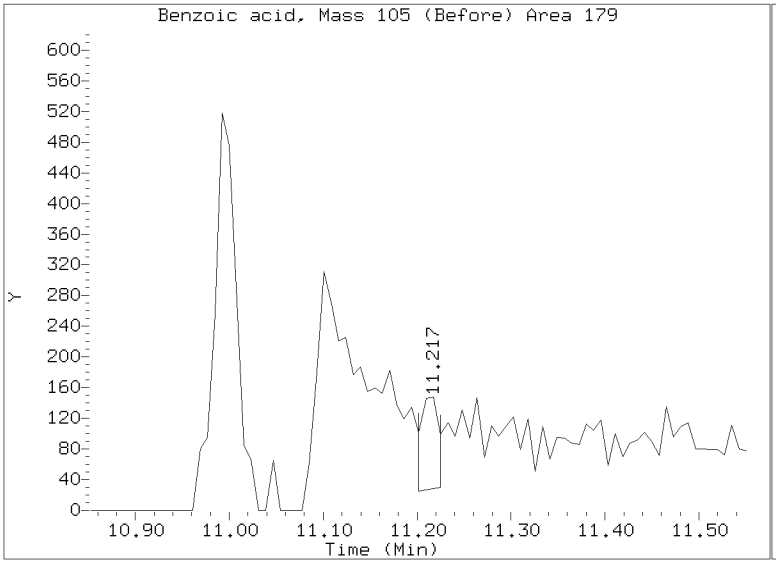
* Only compounds listed in the work order have been verified by the analyst *

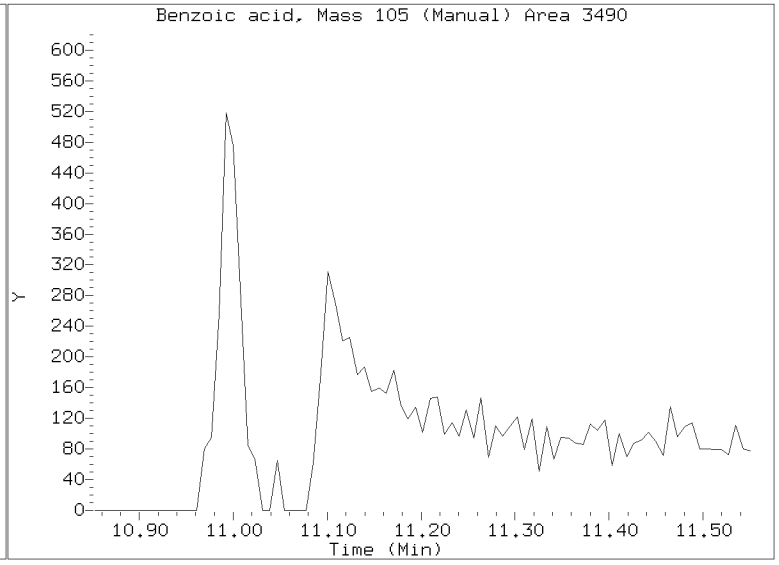
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123004.D
Injection Date: 30-DEC-2022 09:18
Lab ID:SKL0355-CAL1 Client ID:
Report Date: 01/04/2023 08:10









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Page 1

Date : 30-DEC-2022 09:54

Client ID:

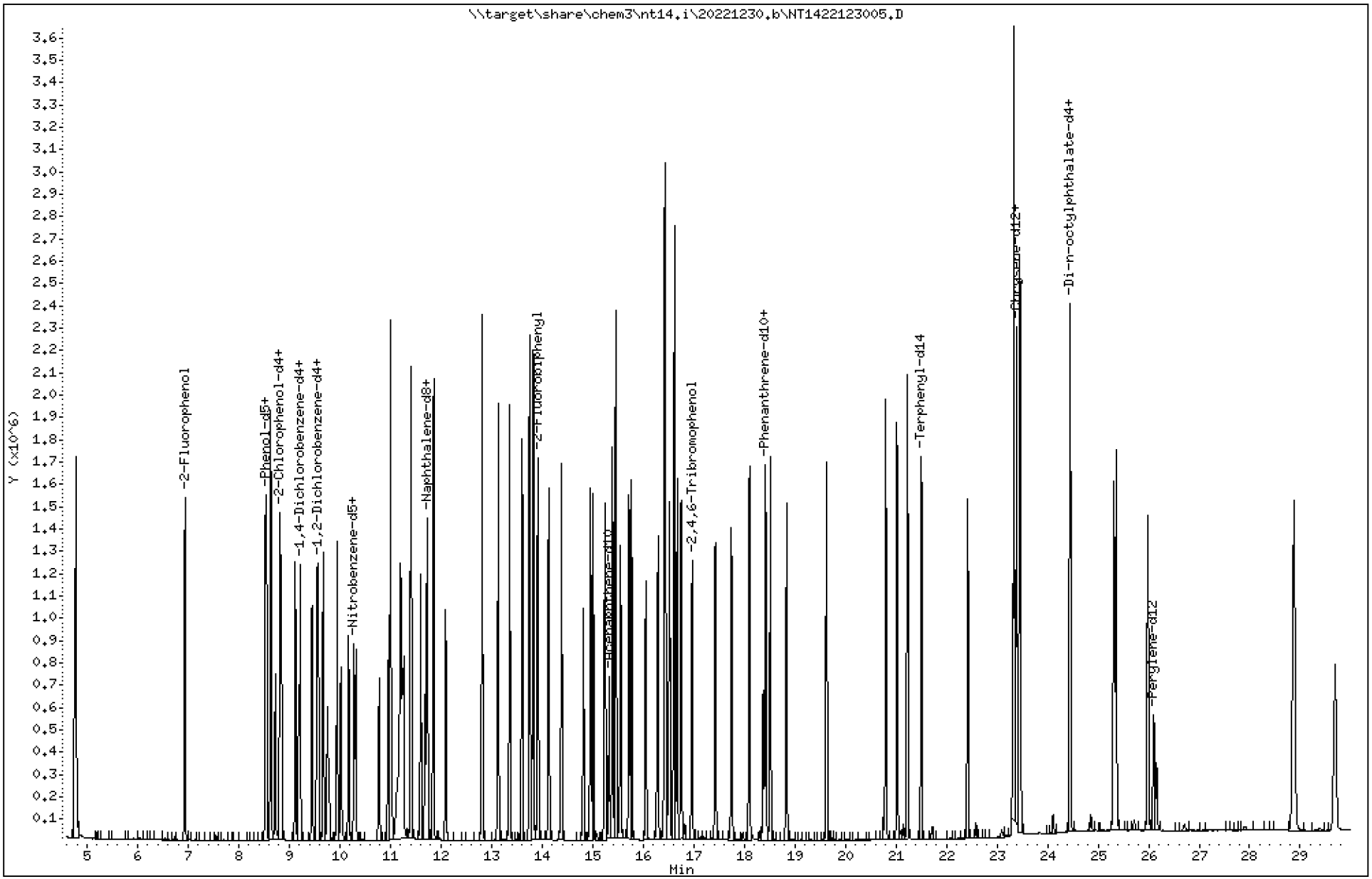
Instrument: nt14.i

Sample Info: SKL0355-CAL6

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1505 of 5449

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123005.D
Lab Smp Id: SKL0355-CAL6
Inj Date : 30-DEC-2022 09:54 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL6
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	679687	15.0000	14.69
$	2 Phenol-d5	99	8.534	8.526	(0.929)	872537	15.0000	15.26
	3 Phenol	94	8.550	8.549	(0.931)	619094	10.0000	9.531
$	5 2-Chlorophenol-d4	132	8.820	8.820	(0.960)	722531	15.0000	15.05
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	411863	10.0000	9.204
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	514491	10.0000	9.758
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	516134	10.0000	9.231
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	144388	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	492544	10.0000	9.299
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	317548	10.0000	9.677
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	485695	10.0000	9.350
	11 Benzyl alcohol	108	9.455	9.447	(1.030)	302837	10.0000	10.47
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	133200	10.0000	8.844(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	460441	10.0000	9.755
	17 Hexachloroethane	117	10.177	10.177	(1.108)	188693	10.0000	9.686
	16 N-Nitroso-di-n-propylamine	70	10.022	10.014	(1.091)	287238	10.0000	9.990
	15 4-Methylphenol	108	9.944	9.944	(1.083)	494444	10.0000	9.930
$	18 Nitrobenzene-d5	82	10.286	10.285	(0.880)	458887	10.0000	10.44
	19 Nitrobenzene	77	10.317	10.316	(0.883)	435132	10.0000	9.968
	20 Isophorone	82	10.775	10.774	(0.922)	599485	10.0000	10.78
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	296338	10.0000	10.08
	22 2,4-Dimethylphenol	107	11.007	10.999	(0.942)	971073	20.0000	21.31
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	410542	10.0000	9.485
	24 Benzoic acid	105	11.271	11.201	(0.964)	1255023	40.0000	40.83
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	839403	20.0000	21.86
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	387504	10.0000	9.332
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	520524	4.00000	
	28 Naphthalene	128	11.735	11.735	(1.004)	1223288	10.0000	9.550
	29 4-Chloroaniline	127	11.859	11.858	(1.015)	1081365	20.0000	20.47
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	200462	10.0000	9.730
	31 4-Chloro-3-methylphenol	107	12.818	12.818	(1.097)	772836	20.0000	21.32
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	946377	10.0000	10.07
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	488475	20.0000	22.16

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	538916	20.0000	22.14
	35 2,4,5-Trichlorophenol	196	13.832	13.824	(0.903)	607808	20.0000	21.64
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	949918	10.0000	9.689
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	801615	10.0000	9.611
	38 2-Nitroaniline	65	14.389	14.389	(0.939)	471220	20.0000	21.49
	39 Dimethylphthalate	163	14.822	14.822	(0.967)	795860	10.0000	9.678
	40 Acenaphthylene	152	15.008	15.008	(0.979)	1241465	10.0000	9.762
	41 2,6-Dinitrotoluene	165	14.962	14.954	(0.976)	393357	20.0000	21.20
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	291597	4.00000	
	43 3-Nitroaniline	138	15.248	15.240	(0.995)	486154	20.0000	21.55
	44 Acenaphthene	153	15.395	15.394	(1.005)	762858	10.0000	9.671
	45 2,4-Dinitrophenol	184	15.464	15.456	(1.009)	731163	40.0000	41.68
	46 Dibenzofuran	168	15.719	15.719	(1.026)	1138667	10.0000	9.626
	47 4-Nitrophenol	109	15.557	15.549	(1.015)	230638	20.0000	20.34
	48 2,4-Dinitrotoluene	165	15.774	15.765	(1.029)	547007	20.0000	21.48
	50 Diethylphthalate	149	16.292	16.283	(1.063)	1117494	10.0000	9.998
	49 Fluorene	166	16.438	16.438	(1.073)	1268888	10.0000	10.08
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	605617	10.0000	9.831
	52 4-Nitroaniline	138	16.523	16.515	(1.078)	591978	20.0000	20.71
	53 4,6-Dinitro-2-methylphenol	198	16.623	16.615	(0.905)	868287	40.0000	40.88
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	756128	10.0000	9.633
$	55 2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	228033	15.0000	15.25
	56 4-Bromophenyl-phenylether	248	17.433	17.433	(0.949)	296950	10.0000	9.990
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	308248	10.0000	9.450
	58 Pentachlorophenol	266	18.106	18.106	(0.985)	325403	20.0000	20.49
*	59 Phenanthrene-d10	188	18.377	18.376	(1.000)	457445	4.00000	
	60 Phenanthrene	178	18.423	18.423	(1.003)	1136058	10.0000	9.525
	61 Anthracene	178	18.516	18.516	(1.008)	1166723	10.0000	10.25
	62 Carbazole	167	18.841	18.841	(1.025)	1106489	10.0000	10.05
	63 Di-n-butylphthalate	149	19.630	19.630	(1.068)	1391254	10.0000	10.21
	64 Fluoranthene	202	20.806	20.806	(0.889)	1335570	10.0000	10.15
	65 Pyrene	202	21.224	21.231	(0.906)	1400336	10.0000	10.12
$	66 Terphenyl-d14	244	21.503	21.510	(0.918)	945502	10.0000	9.639
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	545847	10.0000	10.07
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	1247362	10.0000	10.08
*	69 Chrysene-d12	240	23.415	23.415	(1.000)	408635	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.338	23.329	(0.997)	1218183	30.0000	32.15
	71 Chrysene	228	23.461	23.461	(1.002)	1138686	10.0000	9.738
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	808502	10.0000	11.16
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	652062	4.00000	
	73 Di-n-octylphthalate	149	24.452	24.452	(1.001)	1452216	10.0000	9.278
	74 Benzo(b)fluoranthene	252	25.312	25.311	(0.970)	1240733	10.0000	10.56
	75 Benzo(k)fluoranthene	252	25.358	25.358	(0.972)	1222178	10.0000	10.22
	76 Benzo(a)pyrene	252	25.985	25.985	(0.996)	1054229	10.0000	10.80
*	77 Perylene-d12	264	26.102	26.101	(1.000)	373712	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.869	28.869	(1.106)	1165940	10.0000	10.51
	79 Dibenzo(a,h)anthracene	278	28.885	28.876	(1.107)	993824	10.0000	10.54
	80 Benzo(g,h,i)perylene	276	29.692	29.684	(1.138)	963494	10.0000	10.36
	90 N-Nitrosodimethylamine	74	4.757	4.749	(0.518)	607307	20.0000	19.06
	91 Aniline	93	8.635	8.634	(0.940)	1222568	20.0000	19.33
	93 Benzidine	184	21.023	21.030	(0.898)	1160731	20.0000	20.97
	103 Pyridine	79	4.780	4.780	(0.521)	938645	10.0000	9.272
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	908074	10.0000	10.06
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.754	16.746	(1.093)	1036002	10.0000	9.567

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.358	25.358	(0.972)	2352916	20.0000	20.72
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	230505	10.0000	10.22

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123005.D
Lab Smp Id: SKL0355-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	144388	-4.39
27 Naphthalene-d8	553510	276755	1107020	520524	-5.96
42 Acenaphthene-d10	305411	152706	610822	291597	-4.52
59 Phenanthrene-d10	491708	245854	983416	457445	-6.97
69 Chrysene-d12	424740	212370	849480	408635	-3.79
134 Di-n-octylphthala	684951	342476	1369902	652062	-4.80
77 Perylene-d12	395150	197575	790300	373712	-5.43

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.38	0.00
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123005.D

Lab ID: SKL0355-CAL6
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 09:54

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.964	0.958	0.0060	Benzoic acid

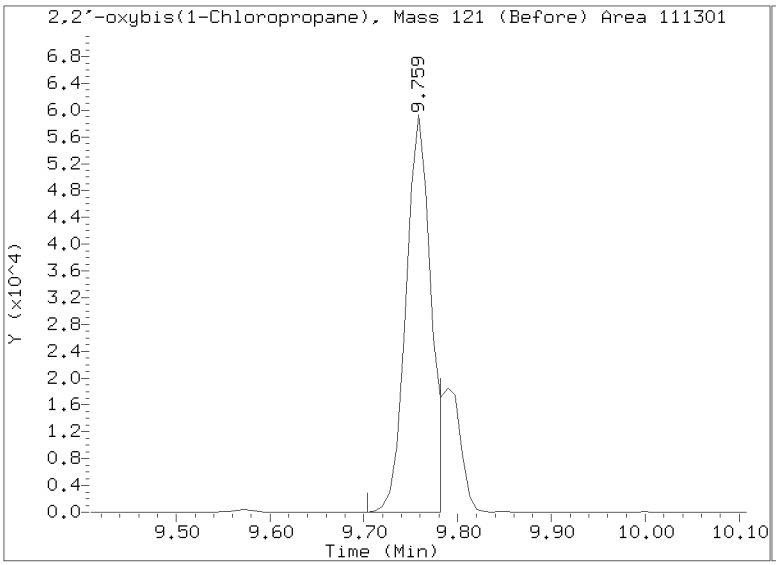
RRT check based on Ccal File: NT1422123002.D

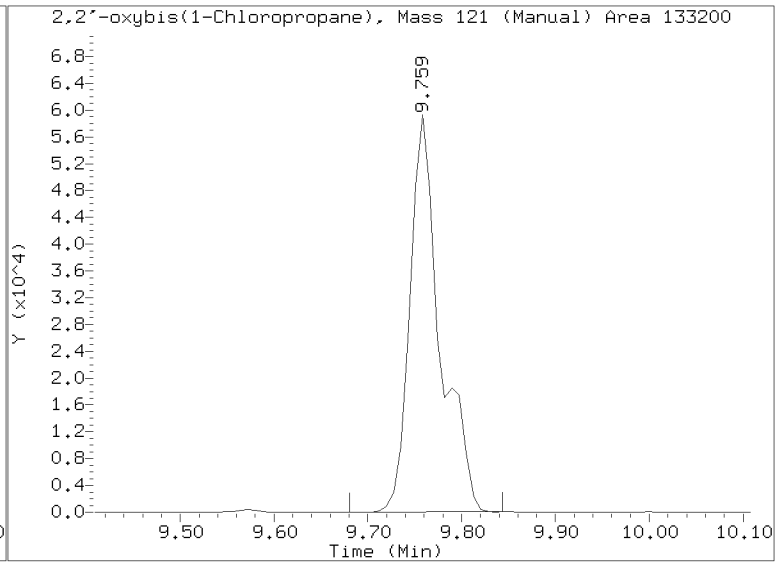
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123005.D
Injection Date: 30-DEC-2022 09:54
Lab ID:SKL0355-CAL6 Client ID:
Report Date: 01/04/2023 08:10

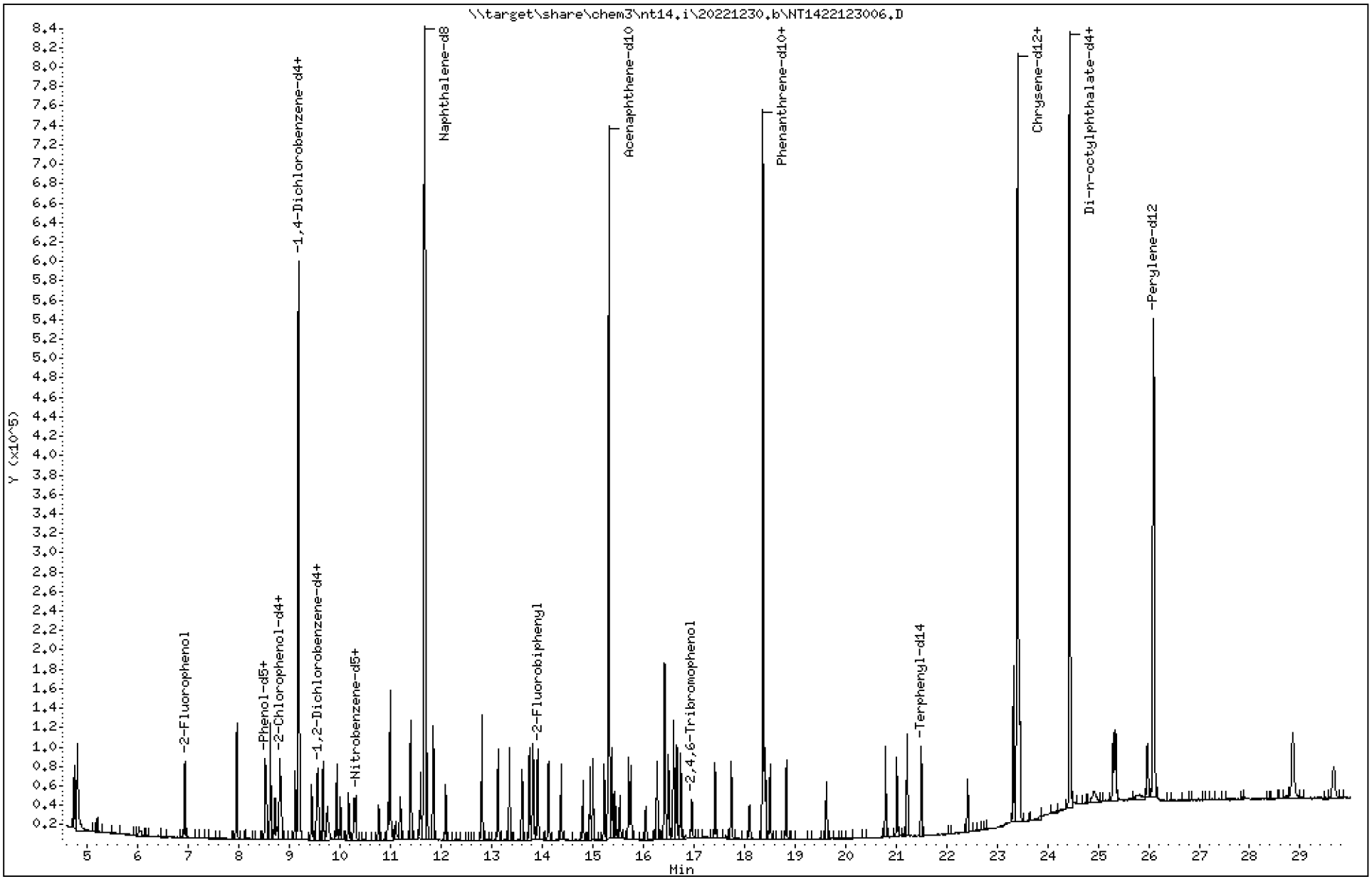




Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Date : 30-DEC-2022 10:30
Client ID:
Sample Info: SKL0355-CAL2

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123006.D
Lab Smp Id: SKL0355-CAL2
Inj Date : 30-DEC-2022 10:30 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 6 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	34903	0.75000	0.6981
$	2 Phenol-d5	99	8.519	8.526	(0.928)	42199	0.75000	0.6830
	3 Phenol	94	8.542	8.549	(0.930)	36124	0.50000	0.5145
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	35806	0.75000	0.6900
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	24289	0.50000	0.5022
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	29167	0.50000	0.5118
	7 1,3-Dichlorobenzene	146	9.114	9.121	(0.992)	30449	0.50000	0.5039
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	156057	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	28610	0.50000	0.4997
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	17119	0.50000	0.4827
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	28498	0.50000	0.5076
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	14402	0.50000	0.4608
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	8044	0.50000	0.4942(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	25776	0.50000	0.5053
	17 Hexachloroethane	117	10.177	10.177	(1.108)	10124	0.50000	0.4808
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	14481	0.50000	0.4660
	15 4-Methylphenol	108	9.937	9.944	(1.082)	26897	0.50000	0.4998
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	21401	0.50000	0.4431
	19 Nitrobenzene	77	10.317	10.316	(0.883)	22648	0.50000	0.4721
	20 Isophorone	82	10.767	10.774	(0.921)	25135	0.50000	0.4111
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	12069	0.50000	0.4112
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	51050	1.00000	1.020
	23 Bis(2-Chloroethoxy)methane	93	11.193	11.201	(0.958)	23378	0.50000	0.4915
	24 Benzoic acid	105	11.108	11.201	(0.950)	14207	2.00000	0.4659(M)
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	40191	1.00000	0.9524
	26 1,2,4-Trichlorobenzene	180	11.596	11.604	(0.992)	23206	0.50000	0.5086
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	571985	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	69183	0.50000	0.4915
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	56453	1.00000	0.9725
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	11064	0.50000	0.4887
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	38662	1.00000	0.9708
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	49620	0.50000	0.4806
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	18783	1.00000	0.8233

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	21656	1.00000	0.8597
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	27255	1.00000	0.9375
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	47567	0.50000	0.4688
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	42164	0.50000	0.4884
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	19656	1.00000	0.8661
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	40698	0.50000	0.4782
	40 Acenaphthylene	152	15.008	15.008	(0.979)	63153	0.50000	0.4798
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	16410	1.00000	0.8543
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	301808	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	19877	1.00000	0.8514
	44 Acenaphthene	153	15.387	15.394	(1.004)	39464	0.50000	0.4834
	45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	12777	2.00000	0.7820
	46 Dibenzofuran	168	15.712	15.719	(1.025)	60485	0.50000	0.4940
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	8162	1.00000	0.7298
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	22031	1.00000	0.8360
	50 Diethylphthalate	149	16.276	16.283	(1.062)	48213	0.50000	0.4167
	49 Fluorene	166	16.431	16.438	(1.072)	61703	0.50000	0.4738
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	28550	0.50000	0.4478
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	23979	1.00000	0.8525
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	28739	2.00000	1.378
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	41445	0.50000	0.4873
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	7439	0.75000	0.5253
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	14917	0.50000	0.4632
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	17094	0.50000	0.4837
	58 Pentachlorophenol	266	18.106	18.106	(0.986)	7931	1.00000	0.5172
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	495600	4.00000	
	60 Phenanthrene	178	18.415	18.423	(1.003)	62770	0.50000	0.4858
	61 Anthracene	178	18.508	18.516	(1.008)	56156	0.50000	0.4552
	62 Carbazole	167	18.833	18.841	(1.025)	55016	0.50000	0.4613
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	48994	0.50000	0.3635
	64 Fluoranthene	202	20.798	20.806	(0.889)	59348	0.50000	0.4569
	65 Pyrene	202	21.224	21.231	(0.907)	64535	0.50000	0.4725
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	45758	0.50000	0.4725
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	17654	0.50000	0.3425
	68 Benzo(a)anthracene	228	23.376	23.384	(0.999)	57446	0.50000	0.4700
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	403440	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	53862	1.50000	1.440
	71 Chrysene	228	23.454	23.461	(1.002)	56466	0.50000	0.4891
	72 bis(2-Ethylhexyl)phthalate	149	23.438	23.446	(0.959)	24451	0.50000	0.4089
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	538411	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	65847	0.50000	0.5095
	74 Benzo(b)fluoranthene	252	25.296	25.311	(0.969)	50315	0.50000	0.4235
	75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	57082	0.50000	0.4720
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	42758	0.50000	0.4329
*	77 Perylene-d12	264	26.102	26.101	(1.000)	378046	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	49428	0.50000	0.4402
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	42151	0.50000	0.4418
	80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	42449	0.50000	0.4513
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	34503	1.00000	1.002
	91 Aniline	93	8.627	8.634	(0.939)	67619	1.00000	0.9892
	93 Benzidine	184	21.023	21.030	(0.898)	50054	1.00000	1.010
	103 Pyridine	79	4.803	4.780	(0.523)	55583	0.50000	0.5080
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	47699	0.50000	0.4808
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	55153	0.50000	0.4921

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.358	(0.971)	103541	1.00000	0.9014
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	7674	0.50000	0.3605

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123006.D
Lab Smp Id: SKL0355-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	156057	3.34
27 Naphthalene-d8	553510	276755	1107020	571985	3.34
42 Acenaphthene-d10	305411	152706	610822	301808	-1.18
59 Phenanthrene-d10	491708	245854	983416	495600	0.79
69 Chrysene-d12	424740	212370	849480	403440	-5.01
134 Di-n-octylphthala	684951	342476	1369902	538411	-21.39
77 Perylene-d12	395150	197575	790300	378046	-4.33

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123006.D

Lab ID: SKL0355-CAL2
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 10:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.958	-0.0080	Benzoic acid

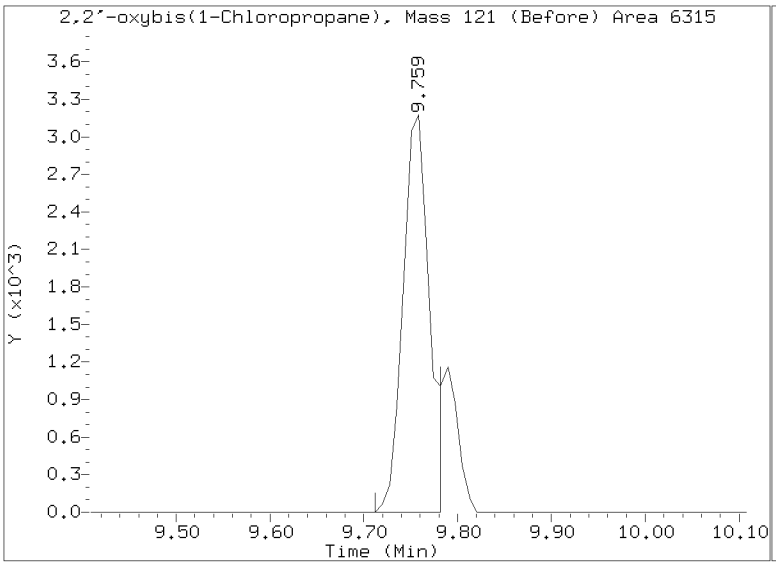
RRT check based on Ccal File: NT1422123002.D

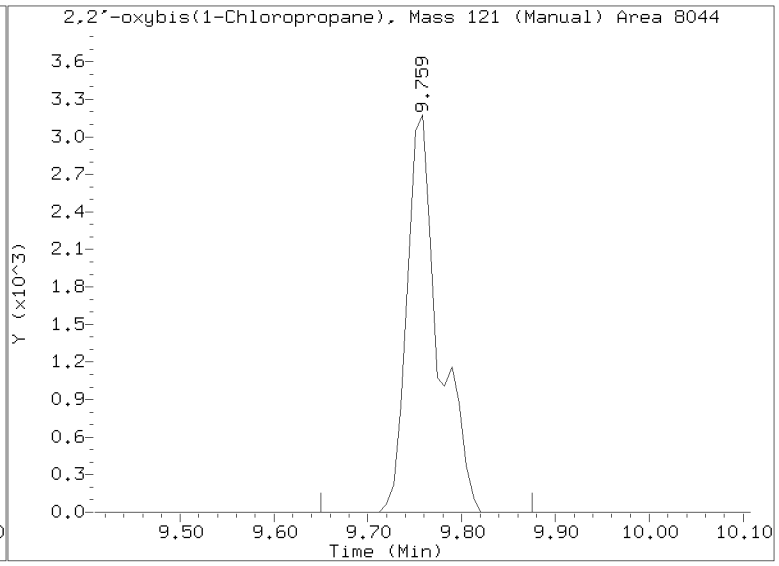
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

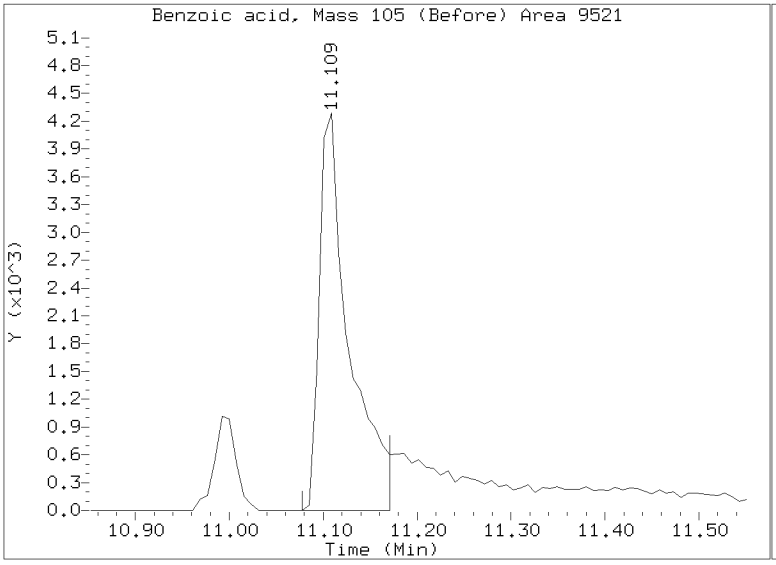
* Only compounds listed in the work order have been verified by the analyst *

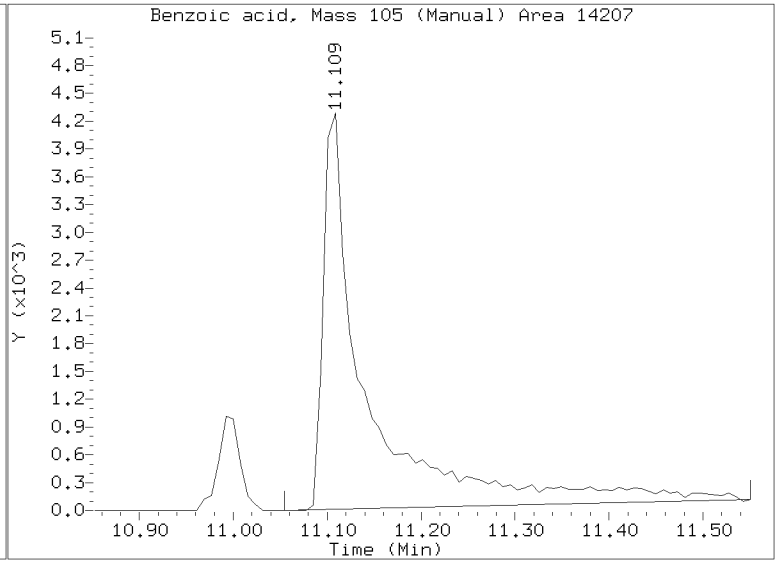
Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123006.D
Injection Date: 30-DEC-2022 10:30
Lab ID:SKL0355-CAL2 Client ID:
Report Date: 01/04/2023 08:10









Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D

Page 1

Date : 30-DEC-2022 11:07

Client ID:

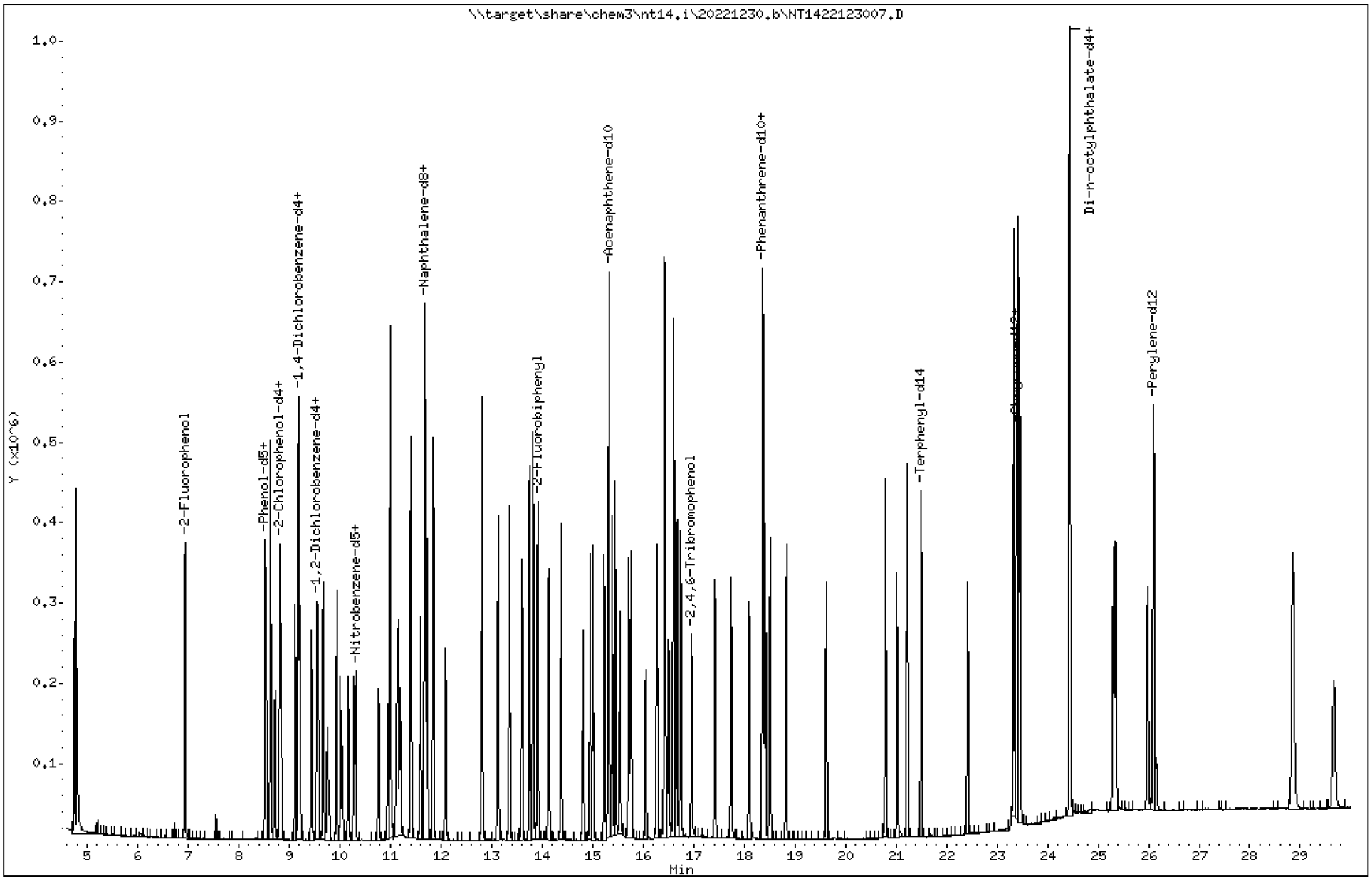
Instrument: nt14.i

Sample Info: SKL0355-CAL4

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123007.D
Lab Smp Id: SKL0355-CAL4
Inj Date : 30-DEC-2022 11:07 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 7 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	161372	3.75000	3.490
$	2 Phenol-d5	99	8.526	8.526	(0.928)	197392	3.75000	3.454
	3 Phenol	94	8.542	8.549	(0.930)	147712	2.50000	2.275
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	165516	3.75000	3.449
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	100156	2.50000	2.239
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	118199	2.50000	2.243
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	125394	2.50000	2.244
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	144333	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	118264	2.50000	2.234
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	72638	2.50000	2.214
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	115678	2.50000	2.228
	11 Benzyl alcohol	108	9.448	9.447	(1.029)	65858	2.50000	2.278
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	31485	2.50000	2.091(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	108026	2.50000	2.290
	17 Hexachloroethane	117	10.177	10.177	(1.108)	43457	2.50000	2.232
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	66811	2.50000	2.324
	15 4-Methylphenol	108	9.944	9.944	(1.083)	112855	2.50000	2.267
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	102108	2.50000	2.272
	19 Nitrobenzene	77	10.317	10.316	(0.883)	99801	2.50000	2.236
	20 Isophorone	82	10.767	10.774	(0.921)	126119	2.50000	2.217
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	59106	2.50000	2.132
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	210430	5.00000	4.517
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	99507	2.50000	2.248
	24 Benzoic acid	105	11.155	11.201	(0.954)	205762	10.0000	7.144
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	173493	5.00000	4.418
	26 1,2,4-Trichlorobenzene	180	11.596	11.604	(0.992)	93766	2.50000	2.208
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	532256	4.00000	
	28 Naphthalene	128	11.728	11.735	(1.003)	290726	2.50000	2.220
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	265464	5.00000	4.914
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	46502	2.50000	2.207
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	171599	5.00000	4.630
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	214202	2.50000	2.229
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	95170	5.00000	4.380

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107791	5.00000	4.492
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	122944	5.00000	4.440
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	215631	2.50000	2.231
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	180247	2.50000	2.192
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	102237	5.00000	4.729
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	183572	2.50000	2.264
	40 Acenaphthylene	152	15.008	15.008	(0.979)	285739	2.50000	2.279
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	84829	5.00000	4.636
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	287473	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	101865	5.00000	4.581
	44 Acenaphthene	153	15.387	15.394	(1.004)	171204	2.50000	2.202
	45 2,4-Dinitrophenol	184	15.449	15.456	(1.008)	111904	10.0000	7.089
	46 Dibenzofuran	168	15.720	15.719	(1.026)	256638	2.50000	2.201
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	46049	5.00000	4.287
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	115038	5.00000	4.583
	50 Diethylphthalate	149	16.276	16.283	(1.062)	265810	2.50000	2.412
	49 Fluorene	166	16.431	16.438	(1.072)	299180	2.50000	2.412
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	140924	2.50000	2.320
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	86874	5.00000	3.224
	53 4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	170673	10.0000	8.585
	54 N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	178863	2.50000	2.241
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	44278	3.75000	3.235
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	66326	2.50000	2.195
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	71985	2.50000	2.171
	58 Pentachlorophenol	266	18.098	18.106	(0.985)	55930	5.00000	3.823
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	465065	4.00000	
	60 Phenanthrene	178	18.416	18.423	(1.003)	265872	2.50000	2.193
	61 Anthracene	178	18.508	18.516	(1.008)	260860	2.50000	2.254
	62 Carbazole	167	18.833	18.841	(1.025)	249640	2.50000	2.231
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	274468	2.50000	2.138
	64 Fluoranthene	202	20.798	20.806	(0.889)	285488	2.50000	2.209
	65 Pyrene	202	21.224	21.231	(0.907)	297779	2.50000	2.191
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	215936	2.50000	2.241
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	109056	2.50000	2.113
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	269372	2.50000	2.215
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	401380	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	239454	7.50000	6.433
	71 Chrysene	228	23.454	23.461	(1.002)	249845	2.50000	2.175
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	152428	2.50000	2.476
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	554407	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	299821	2.50000	2.253
	74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	257530	2.50000	2.225
	75 Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	254506	2.50000	2.161
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	213449	2.50000	2.219
*	77 Perylene-d12	264	26.102	26.101	(1.000)	368275	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	247263	2.50000	2.261
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	206345	2.50000	2.220
	80 Benzo(g,h,i)perylene	276	29.669	29.684	(1.137)	205907	2.50000	2.247
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	150851	5.00000	4.737
	91 Aniline	93	8.627	8.634	(0.939)	287314	5.00000	4.544
	93 Benzidine	184	21.023	21.030	(0.898)	194169	5.00000	3.890
	103 Pyridine	79	4.788	4.780	(0.521)	243179	2.50000	2.403
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	206159	2.50000	2.233
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	251361	2.50000	2.355

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	490350	5.00000	4.382
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	43442	2.50000	2.112

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123007.D
Lab Smp Id: SKL0355-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	144333	-4.42
27 Naphthalene-d8	553510	276755	1107020	532256	-3.84
42 Acenaphthene-d10	305411	152706	610822	287473	-5.87
59 Phenanthrene-d10	491708	245854	983416	465065	-5.42
69 Chrysene-d12	424740	212370	849480	401380	-5.50
134 Di-n-octylphthala	684951	342476	1369902	554407	-19.06
77 Perylene-d12	395150	197575	790300	368275	-6.80

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123007.D

Lab ID: SKL0355-CAL4
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 11:07

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

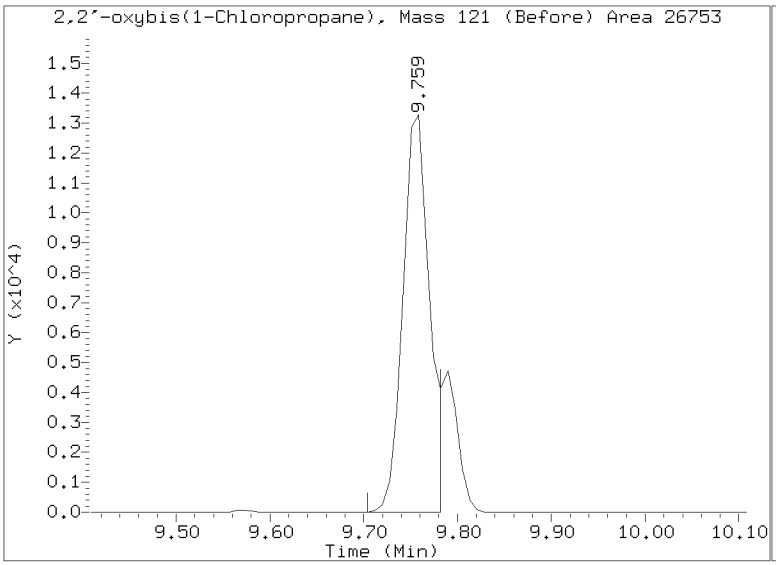
RRT check based on Ccal File: NT1422123002.D

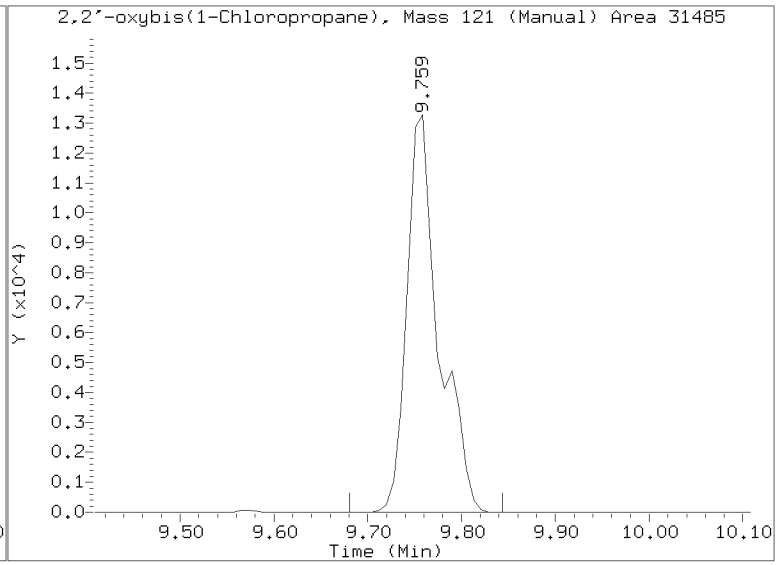
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123007.D
Injection Date: 30-DEC-2022 11:07
Lab ID:SKL0355-CAL4 Client ID:
Report Date: 01/04/2023 08:10





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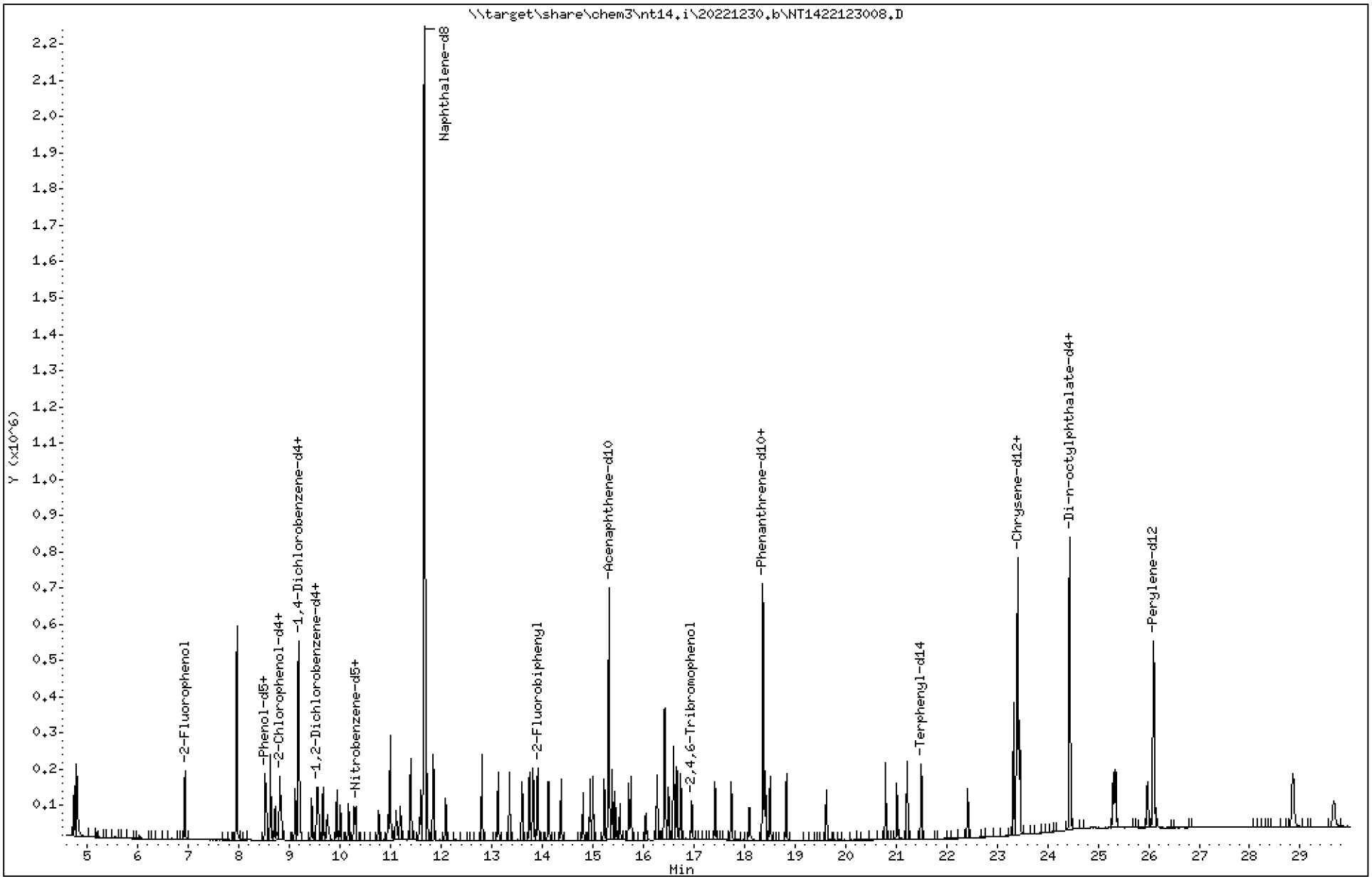
Date : 30-DEC-2022 11:43
Client ID:
Sample Info: SKL0355-CAL3

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 30-DEC-2022 11:43 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 8 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	78205	1.50000	1.648
$	2 Phenol-d5	99	8.519	8.526	(0.928)	93624	1.50000	1.597
	3 Phenol	94	8.542	8.549	(0.930)	65367	1.00000	0.9812
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	79375	1.50000	1.612
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	49691	1.00000	1.083
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	52602	1.00000	0.9727
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	62056	1.00000	1.082
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	148086	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	58942	1.00000	1.085
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	36481	1.00000	1.084
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	57726	1.00000	1.083
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	28898	1.00000	0.9744
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	16940	1.00000	1.097(M)
	13 2-Methylphenol	108	9.673	9.672	(1.053)	47025	1.00000	0.9714
	17 Hexachloroethane	117	10.177	10.177	(1.108)	20867	1.00000	1.044
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	31671	1.00000	1.074
	15 4-Methylphenol	108	9.937	9.944	(1.082)	49597	1.00000	0.9712
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	48318	1.00000	1.025
	19 Nitrobenzene	77	10.317	10.316	(0.883)	48198	1.00000	1.029
	20 Isophorone	82	10.767	10.774	(0.921)	57818	1.00000	0.9688
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	24295	1.00000	0.8448
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	93194	2.00000	1.907
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	49325	1.00000	1.062
	24 Benzoic acid	105	11.116	11.201	(0.951)	45663	4.00000	1.530
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	83681	2.00000	2.031
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	46779	1.00000	1.050
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	558364	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	144433	1.00000	1.051
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	115985	2.00000	2.047
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	22515	1.00000	1.019
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	72624	2.00000	1.868
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	97694	1.00000	0.9692
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	42360	2.00000	1.942

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	43504	2.00000	1.807
	35 2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	51619	2.00000	1.857
$	36 2-Fluorobiphenyl	172	13.917	13.916	(0.908)	105958	1.00000	1.092
	37 2-Chloronaphthalene	162	14.134	14.133	(0.922)	88589	1.00000	1.073
	38 2-Nitroaniline	65	14.381	14.389	(0.938)	44387	2.00000	2.046
	39 Dimethylphthalate	163	14.815	14.822	(0.967)	89258	1.00000	1.097
	40 Acenaphthylene	152	15.008	15.008	(0.979)	136964	1.00000	1.088
	41 2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	38770	2.00000	2.111
*	42 Acenaphthene-d10	164	15.325	15.325	(1.000)	288519	4.00000	
	43 3-Nitroaniline	138	15.233	15.240	(0.994)	45911	2.00000	2.057
	44 Acenaphthene	153	15.387	15.394	(1.004)	83612	1.00000	1.071
	45 2,4-Dinitrophenol	184	15.441	15.456	(1.008)	33764	4.00000	2.155
	46 Dibenzofuran	168	15.712	15.719	(1.025)	117782	1.00000	1.006
	47 4-Nitrophenol	109	15.542	15.549	(1.014)	17409	2.00000	1.625
	48 2,4-Dinitrotoluene	165	15.758	15.765	(1.028)	52556	2.00000	2.086
	50 Diethylphthalate	149	16.276	16.283	(1.062)	126707	1.00000	1.146
	49 Fluorene	166	16.431	16.438	(1.072)	129205	1.00000	1.038
	51 4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	69344	1.00000	1.138
	52 4-Nitroaniline	138	16.500	16.515	(1.077)	42776	2.00000	1.588
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.615	(0.904)	64046	4.00000	3.211
	54 N-Nitrosodiphenylamine	169	16.662	16.669	(0.907)	88399	1.00000	1.091
$	55 2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	19272	1.50000	1.417
	56 4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	31852	1.00000	1.038
	57 Hexachlorobenzene	284	17.750	17.749	(0.966)	36353	1.00000	1.080
	58 Pentachlorophenol	266	18.106	18.106	(0.986)	18807	2.00000	1.283
*	59 Phenanthrene-d10	188	18.369	18.376	(1.000)	472142	4.00000	
	60 Phenanthrene	178	18.416	18.423	(1.003)	132224	1.00000	1.074
	61 Anthracene	178	18.508	18.516	(1.008)	123375	1.00000	1.050
	62 Carbazole	167	18.833	18.841	(1.025)	121783	1.00000	1.072
	63 Di-n-butylphthalate	149	19.630	19.630	(1.069)	117464	1.00000	0.9106
	64 Fluoranthene	202	20.798	20.806	(0.889)	133546	1.00000	1.051
	65 Pyrene	202	21.224	21.231	(0.907)	140647	1.00000	1.052
$	66 Terphenyl-d14	244	21.503	21.510	(0.919)	104935	1.00000	1.107
	67 Butylbenzylphthalate	149	22.424	22.423	(0.958)	44722	1.00000	0.8852
	68 Benzo(a)anthracene	228	23.384	23.384	(0.999)	126915	1.00000	1.061
*	69 Chrysene-d12	240	23.407	23.415	(1.000)	394732	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	116096	3.00000	3.172
	71 Chrysene	228	23.454	23.461	(1.002)	119934	1.00000	1.062
	72 bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	62196	1.00000	1.063
*	134 Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	526757	4.00000	
	73 Di-n-octylphthalate	149	24.445	24.452	(1.000)	139891	1.00000	1.106
	74 Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	122221	1.00000	1.050
	75 Benzo(k)fluoranthene	252	25.343	25.358	(0.971)	118692	1.00000	1.002
	76 Benzo(a)pyrene	252	25.978	25.985	(0.995)	96768	1.00000	0.9998
*	77 Perylene-d12	264	26.102	26.101	(1.000)	370479	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.854	28.869	(1.105)	112553	1.00000	1.023
	79 Dibenzo(a,h)anthracene	278	28.861	28.876	(1.106)	95101	1.00000	1.017
	80 Benzo(g,h,i)perylene	276	29.661	29.684	(1.136)	94498	1.00000	1.025
	90 N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	72560	2.00000	2.221
	91 Aniline	93	8.627	8.634	(0.939)	135629	2.00000	2.091
	93 Benzidine	184	21.023	21.030	(0.898)	95074	2.00000	1.953
	103 Pyridine	79	4.796	4.780	(0.522)	120877	1.00000	1.164
	105 1-methylnaphthalene	142	13.360	13.359	(1.143)	93920	1.00000	0.9698
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	119515	1.00000	1.115

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.304	25.358	(0.969)	230465	2.00000	2.047
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	16275	1.00000	0.7969

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123008.D
Lab Smp Id: SKL0355-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	148086	-1.94
27 Naphthalene-d8	553510	276755	1107020	558364	0.88
42 Acenaphthene-d10	305411	152706	610822	288519	-5.53
59 Phenanthrene-d10	491708	245854	983416	472142	-3.98
69 Chrysene-d12	424740	212370	849480	394732	-7.07
134 Di-n-octylphthala	684951	342476	1369902	526757	-23.10
77 Perylene-d12	395150	197575	790300	370479	-6.24

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123008.D

Lab ID: SKL0355-CAL3
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 11:43

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.958	-0.0073	Benzoic acid

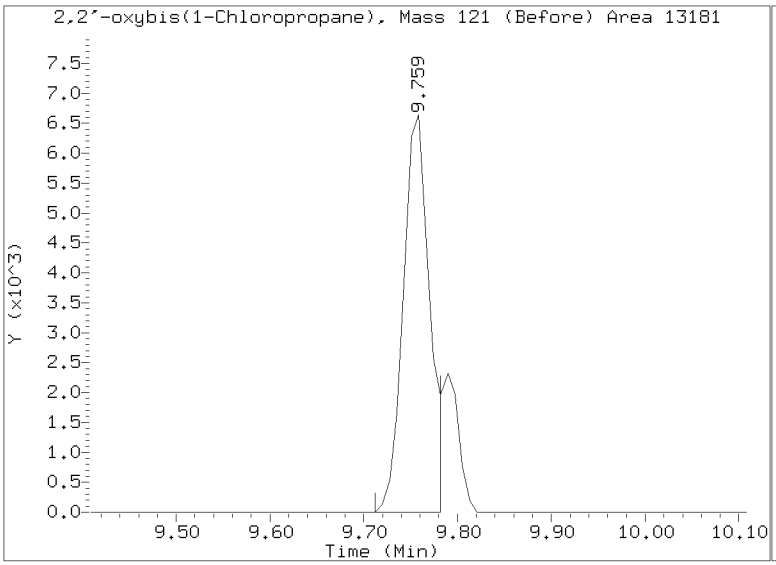
RRT check based on Ccal File: NT1422123002.D

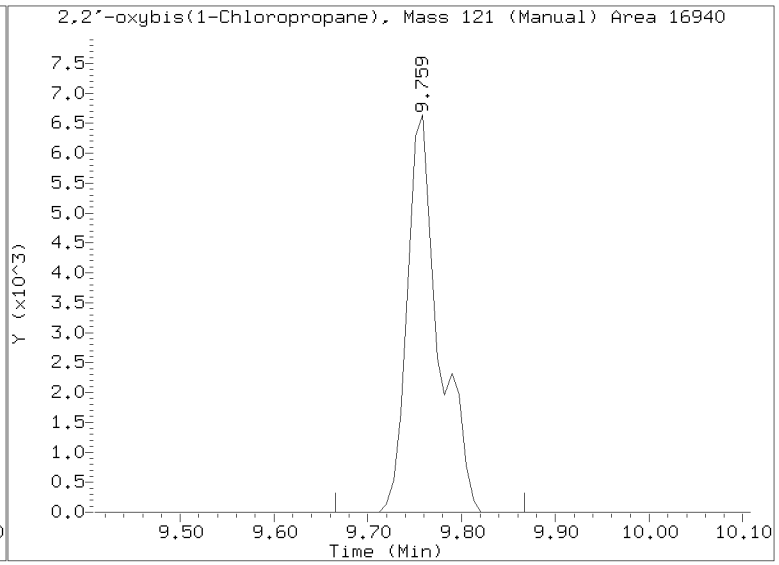
On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230.b/NT1422123008.D
Injection Date: 30-DEC-2022 11:43
Lab ID:SKL0355-CAL3 Client ID:
Report Date: 01/04/2023 08:10





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Page 1

Date : 30-DEC-2022 13:31

Client ID:

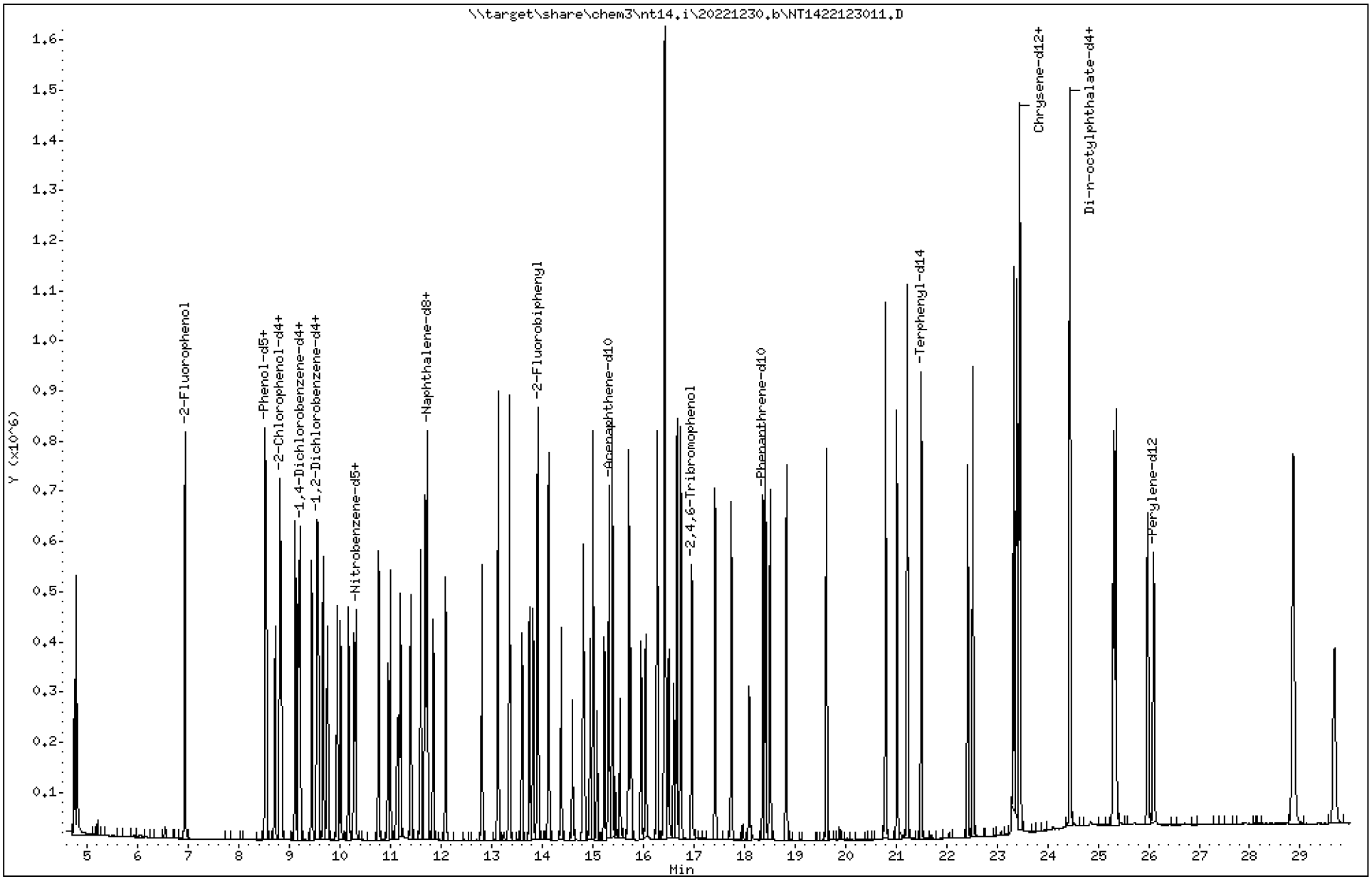
Instrument: nt14.i

Sample Info: SKL0355-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1533 of 5449

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

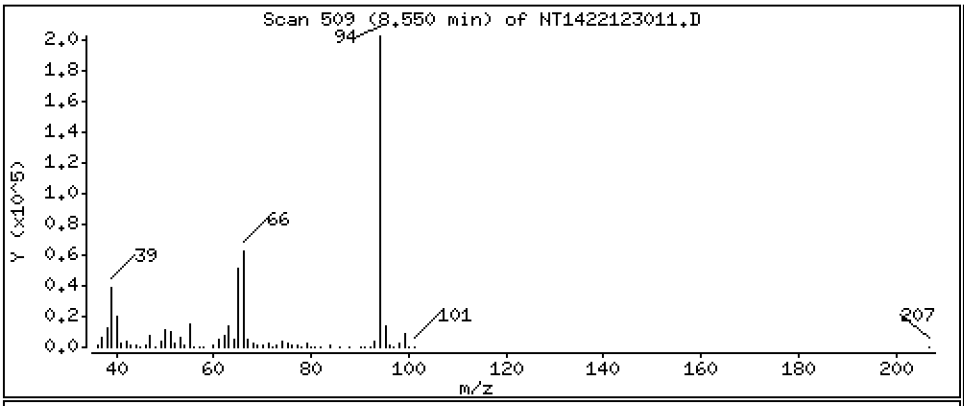
Operator: VTS

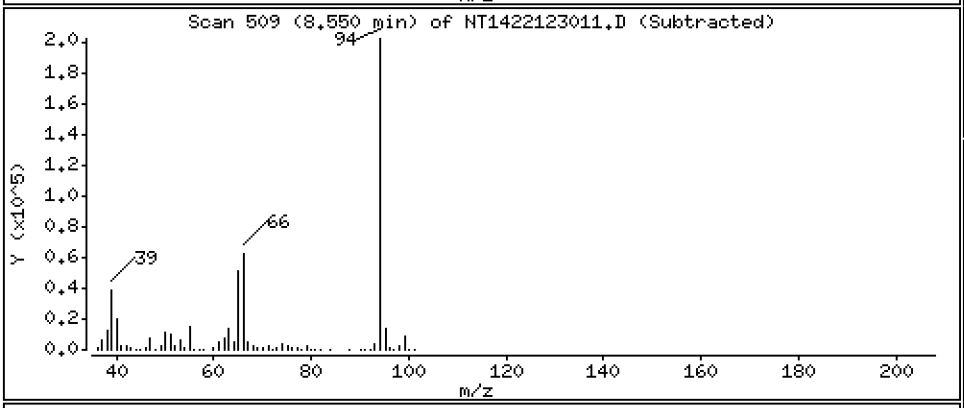
Column phase: ZB-5msi

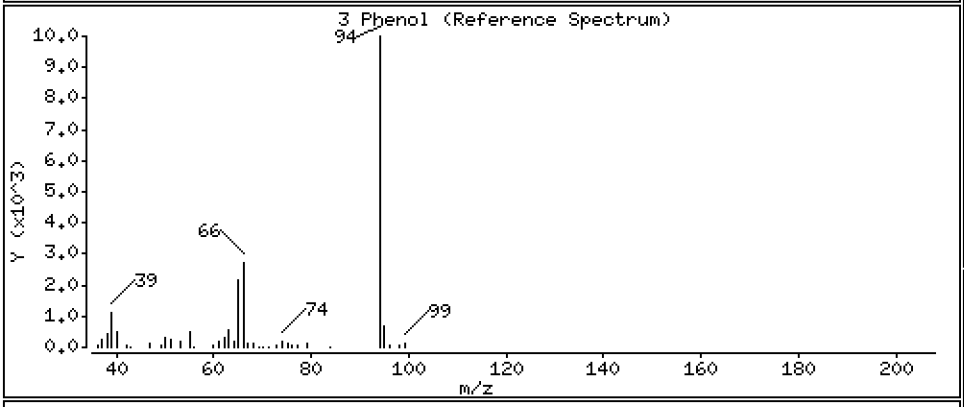
Column diameter: 0.25

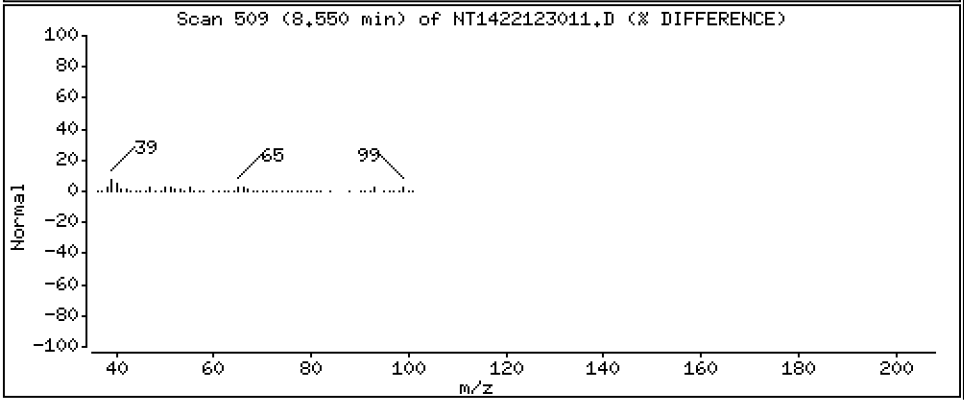
3 Phenol

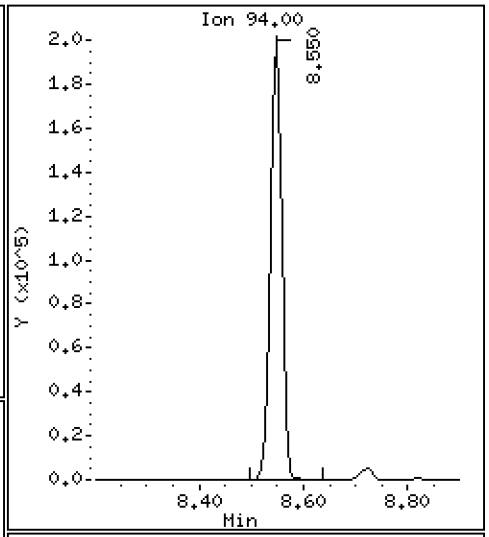
Concentration: 4.351 ug/mL

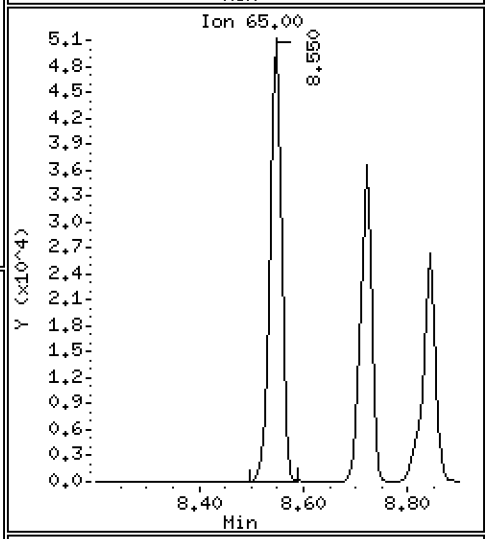


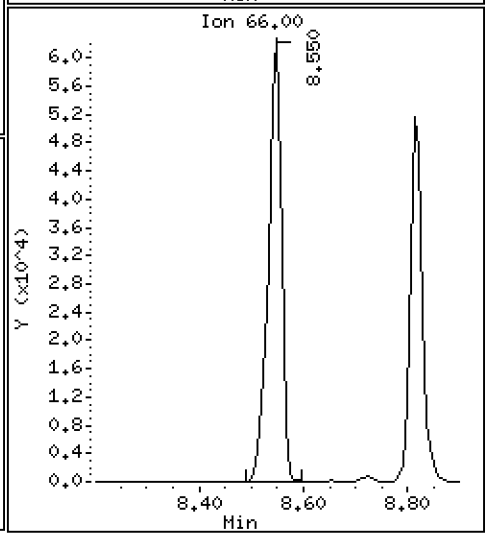












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

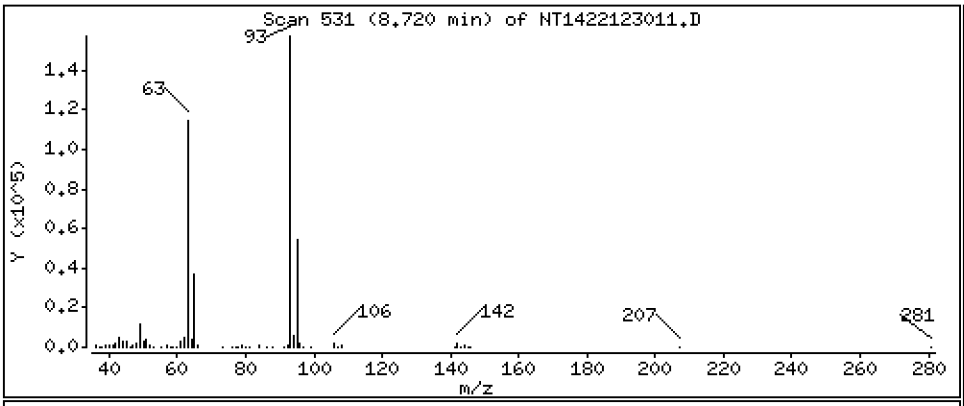
Operator: VTS

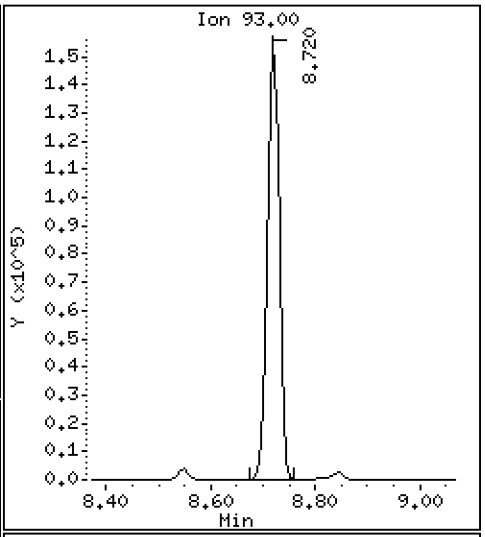
Column phase: ZB-5msi

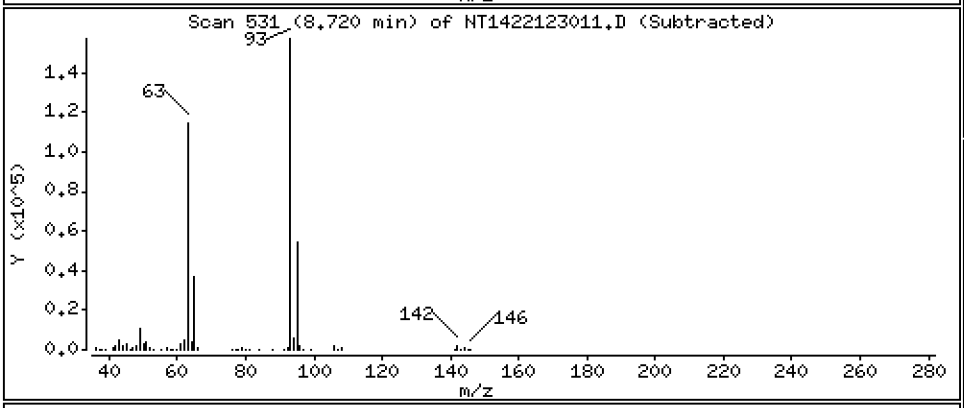
Column diameter: 0.25

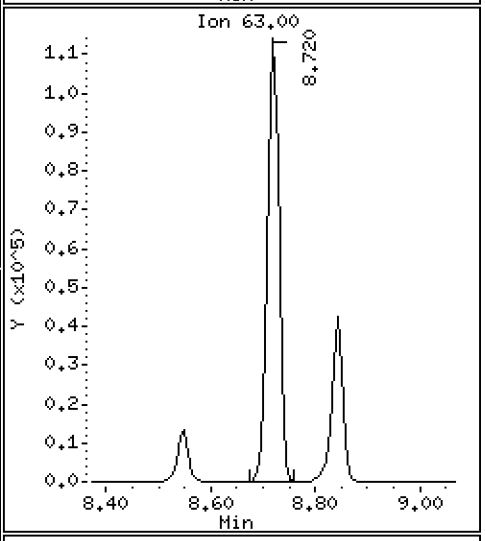
4 Bis(2-Chloroethyl)ether

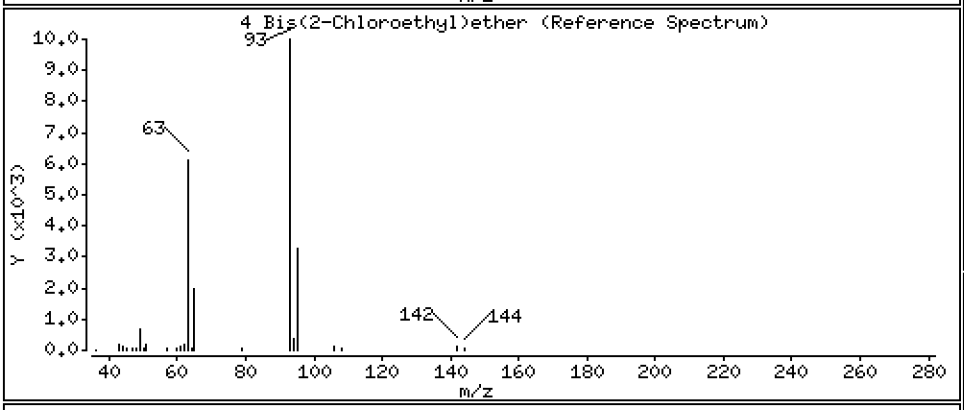
Concentration: 5.095 ug/mL

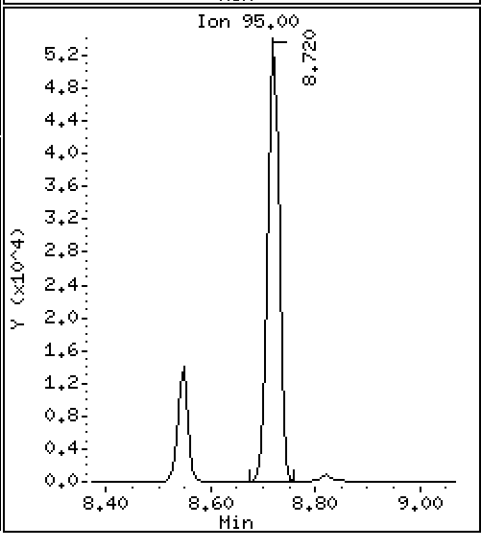


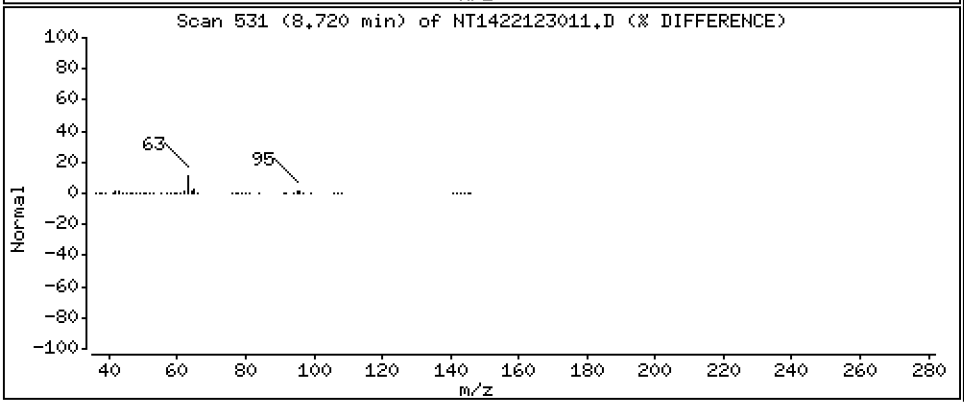












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

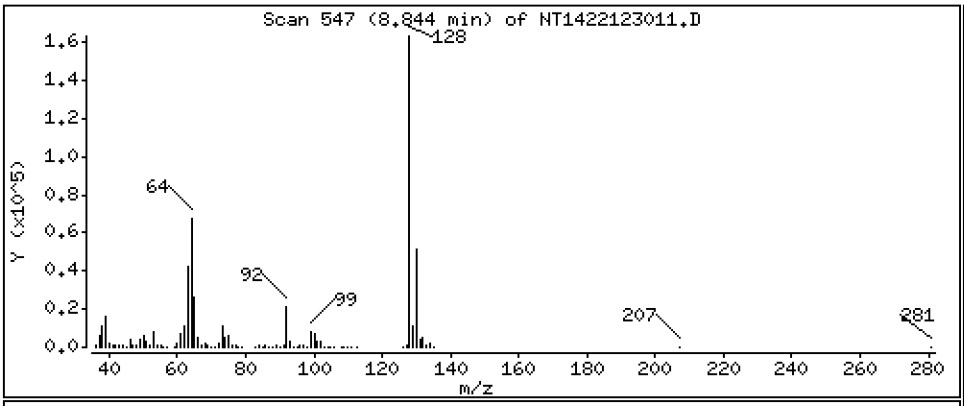
Operator: VTS

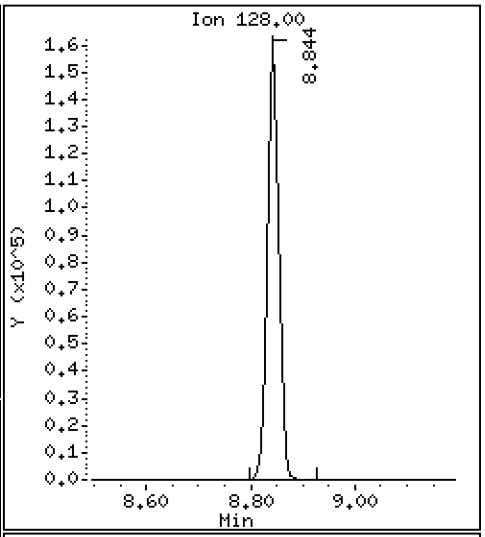
Column phase: ZB-5msi

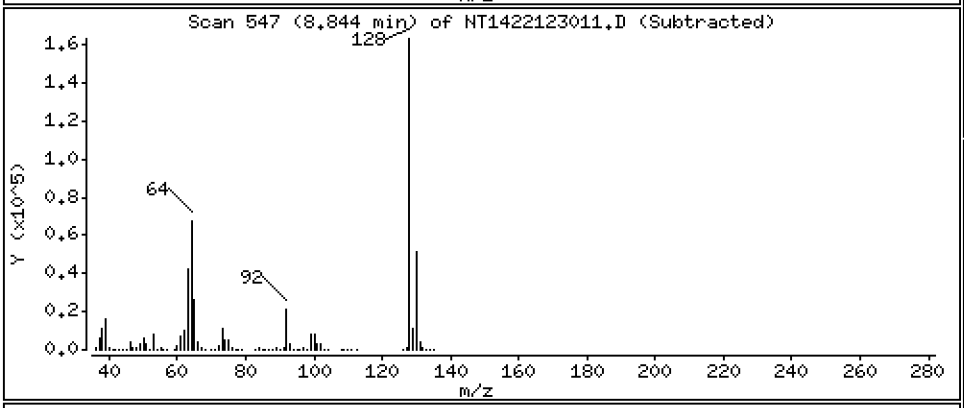
Column diameter: 0.25

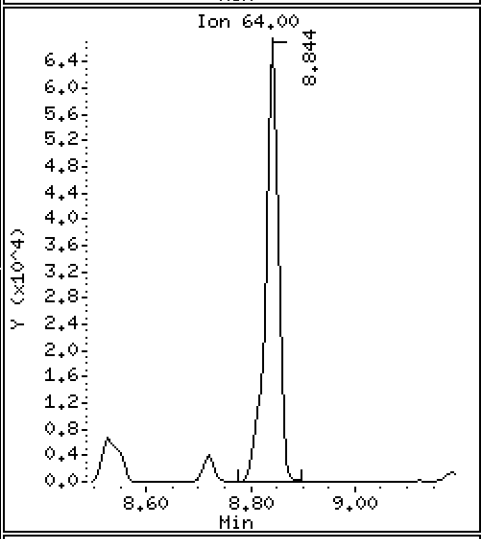
6 2-Chlorophenol

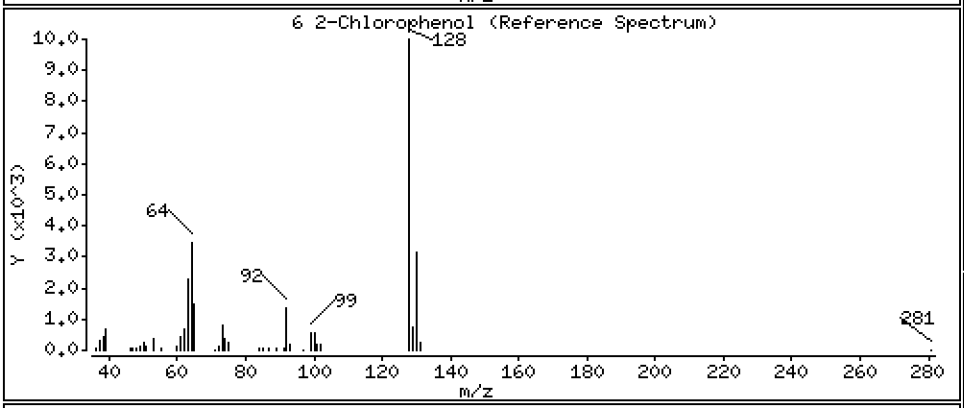
Concentration: 4.461 ug/mL

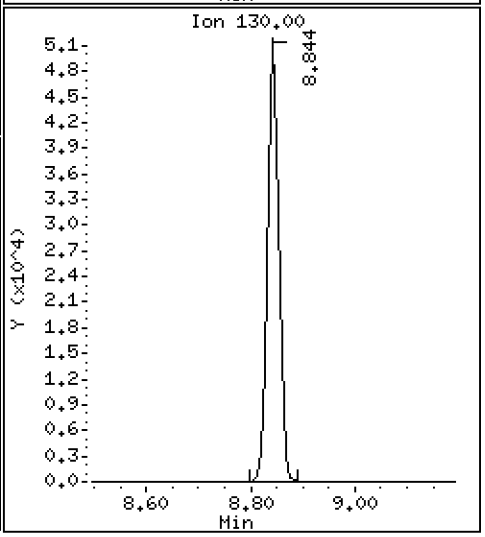


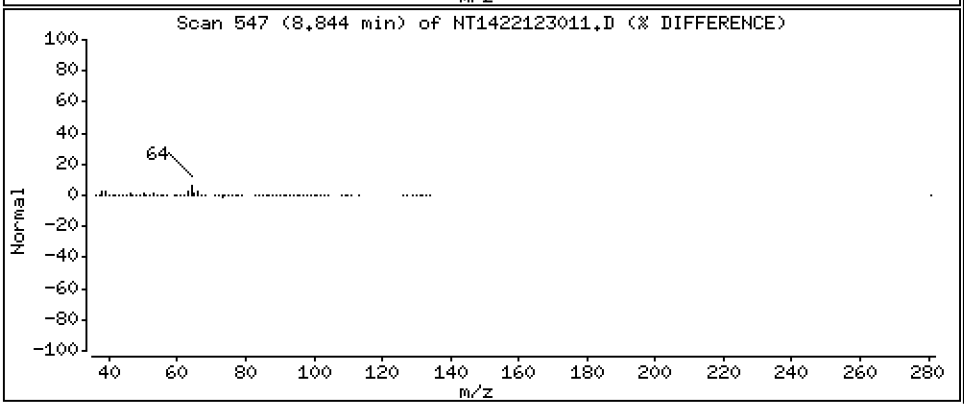












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

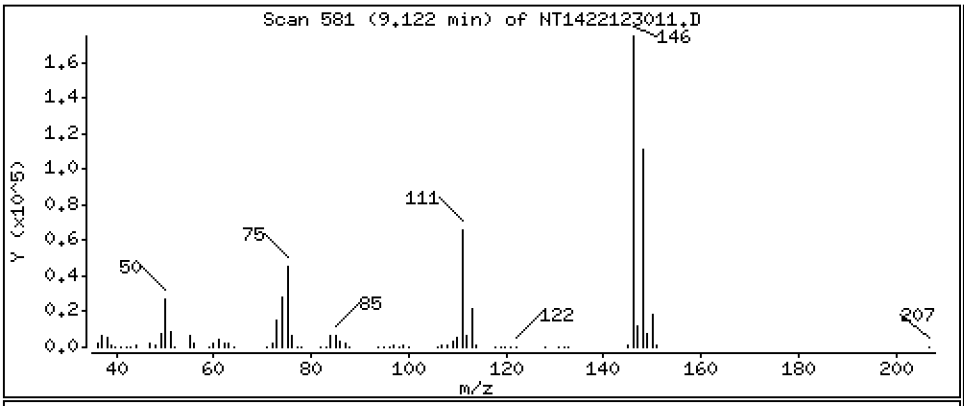
Operator: VTS

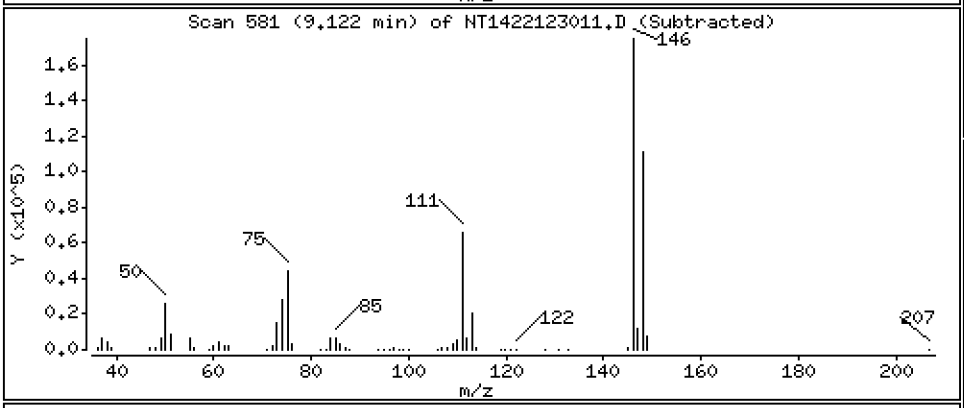
Column phase: ZB-5msi

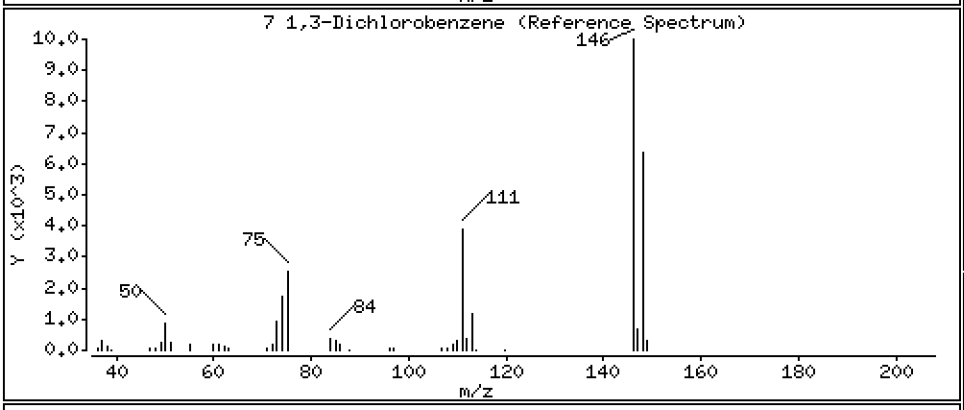
Column diameter: 0.25

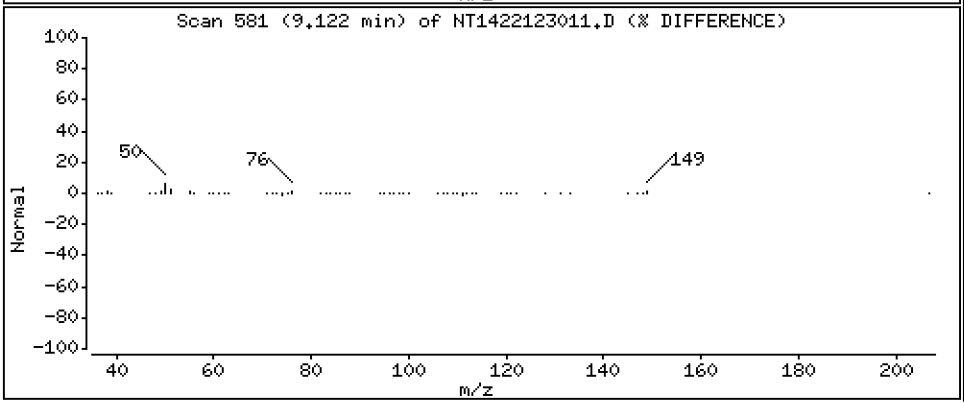
7 1,3-Dichlorobenzene

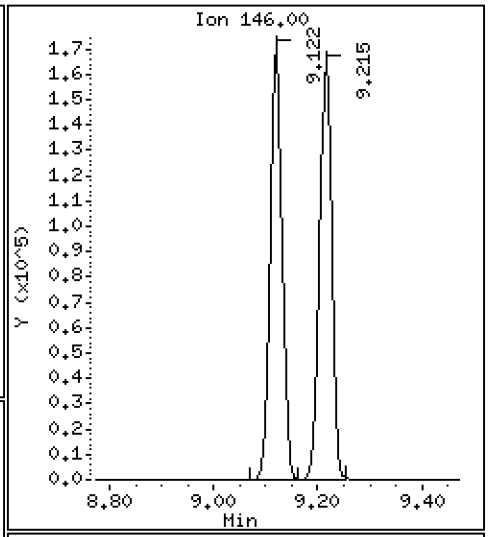
Concentration: 4.754 ug/mL

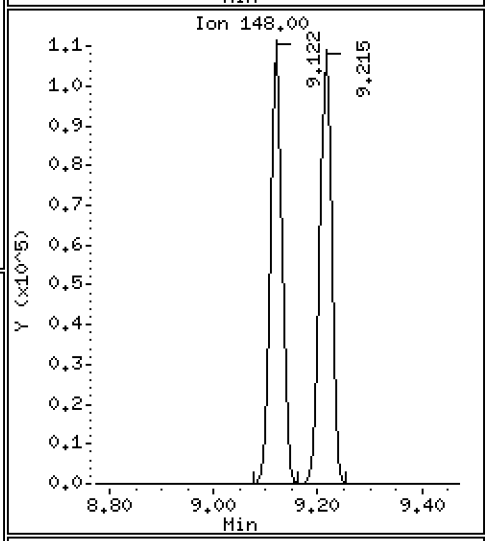


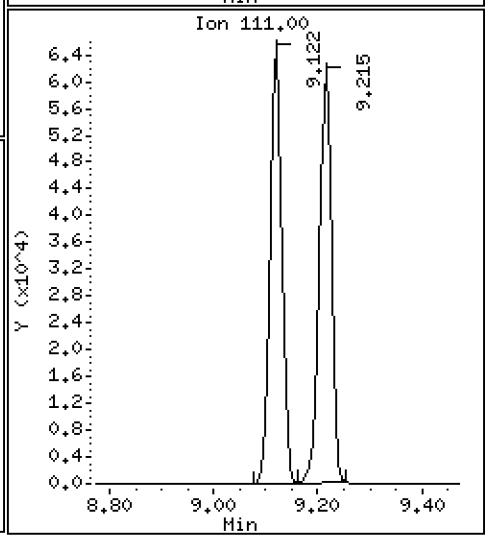












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

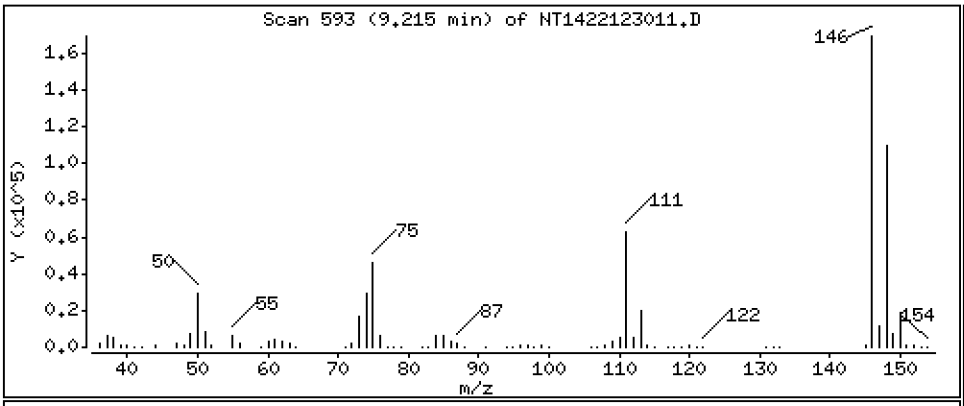
Operator: VTS

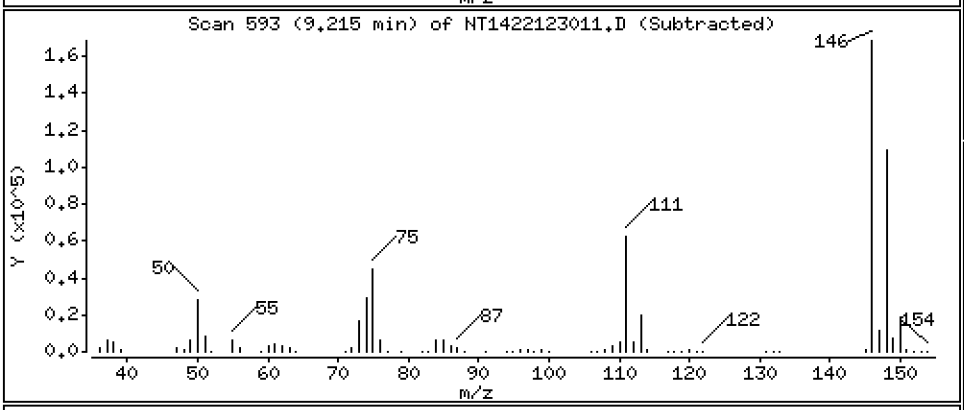
Column phase: ZB-5msi

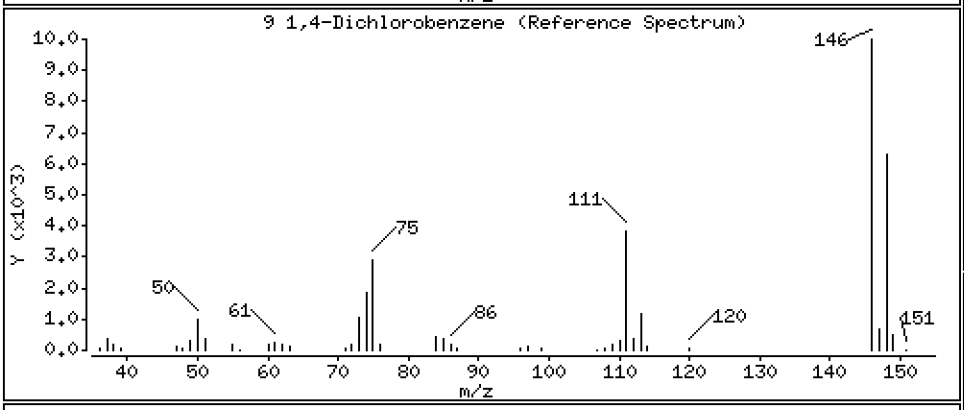
Column diameter: 0.25

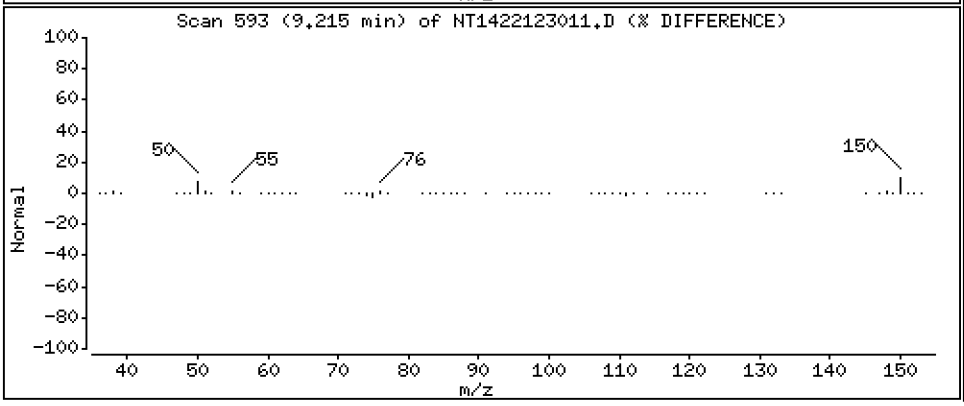
9 1,4-Dichlorobenzene

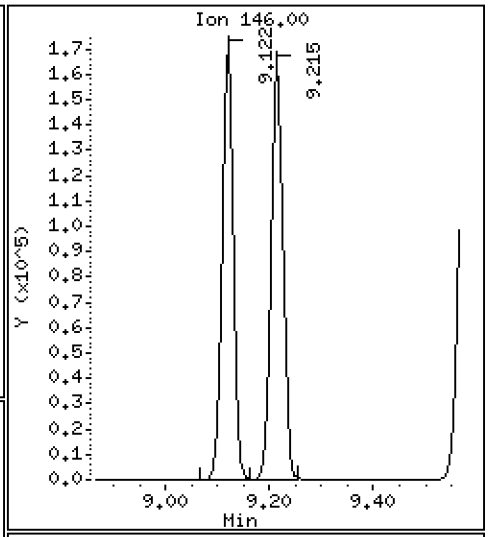
Concentration: 4.773 ug/mL

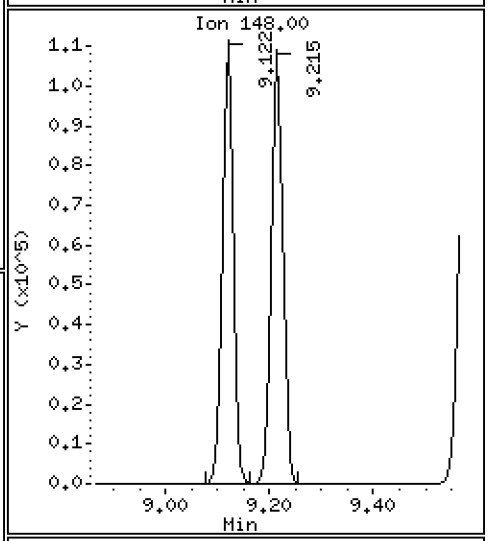


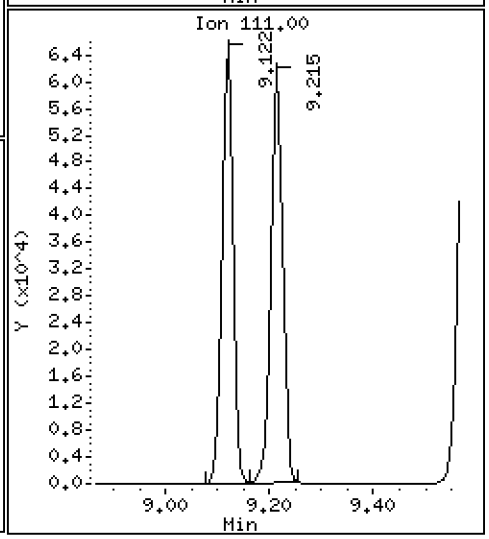












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

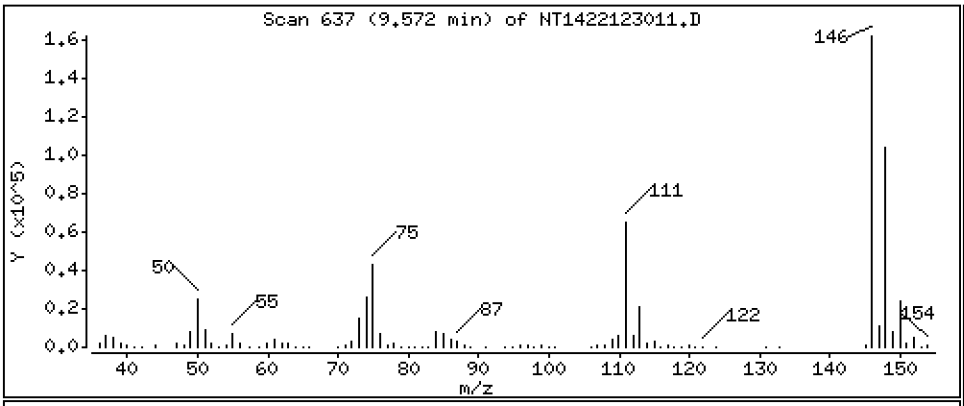
Operator: VTS

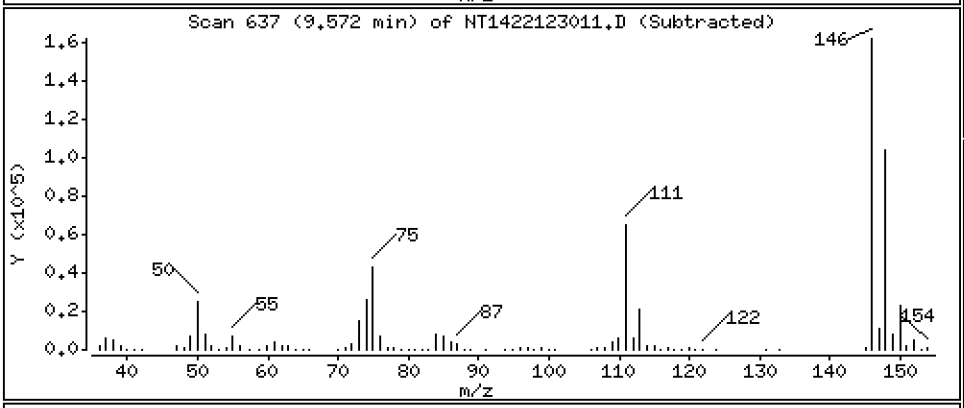
Column phase: ZB-5msi

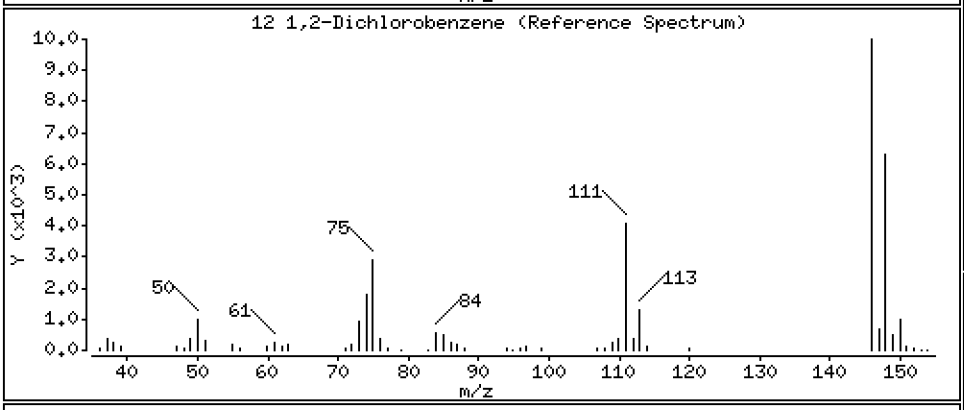
Column diameter: 0.25

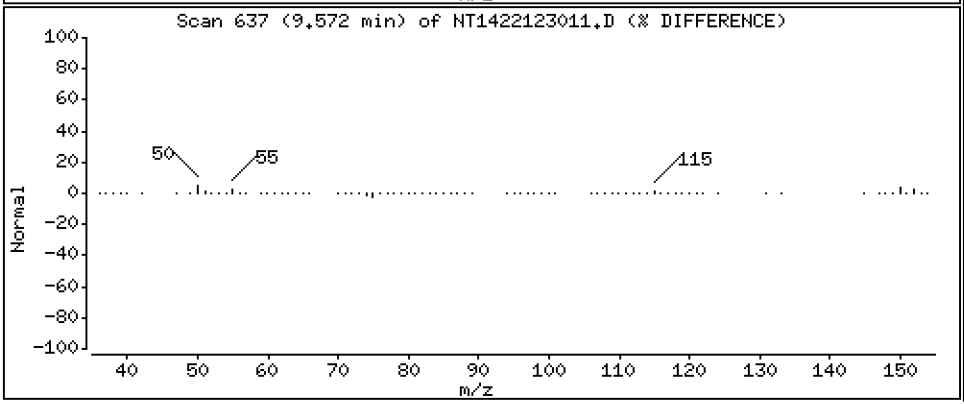
12 1,2-Dichlorobenzene

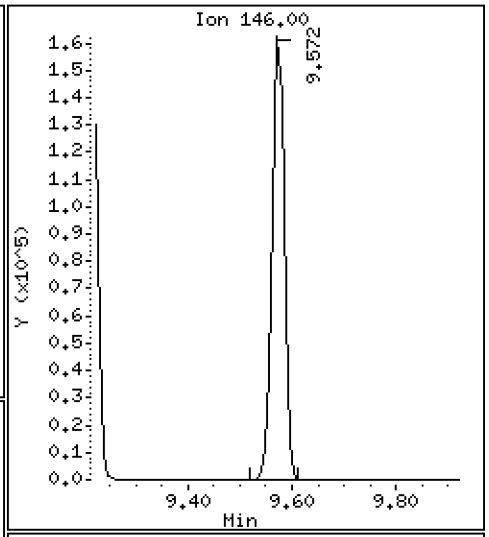
Concentration: 4.767 ug/mL

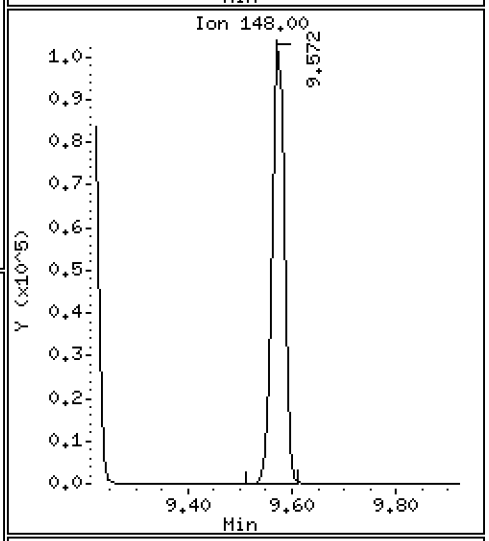


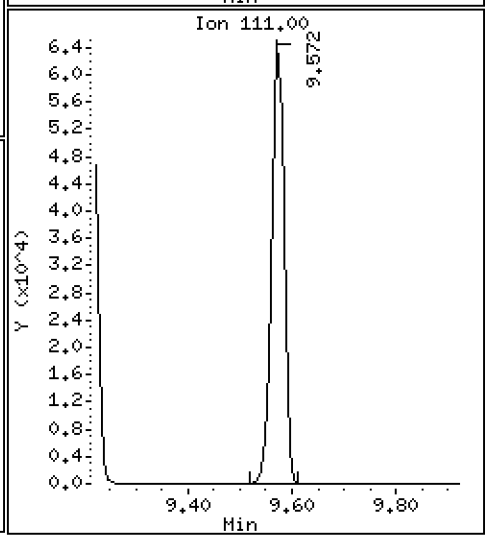












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

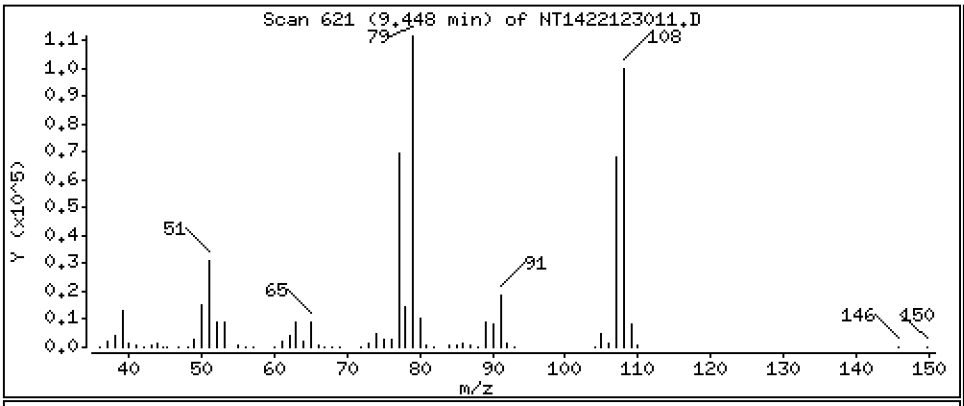
Operator: VTS

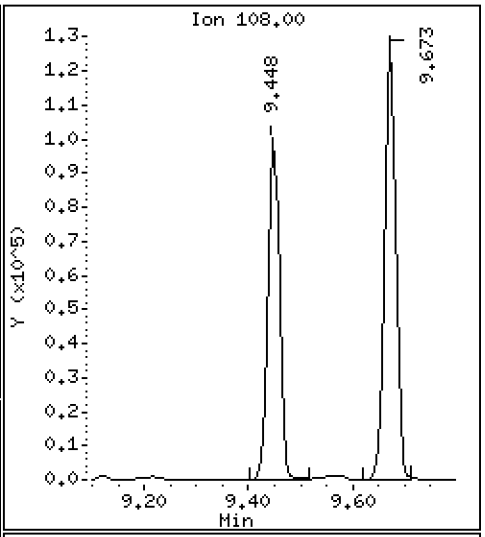
Column phase: ZB-5msi

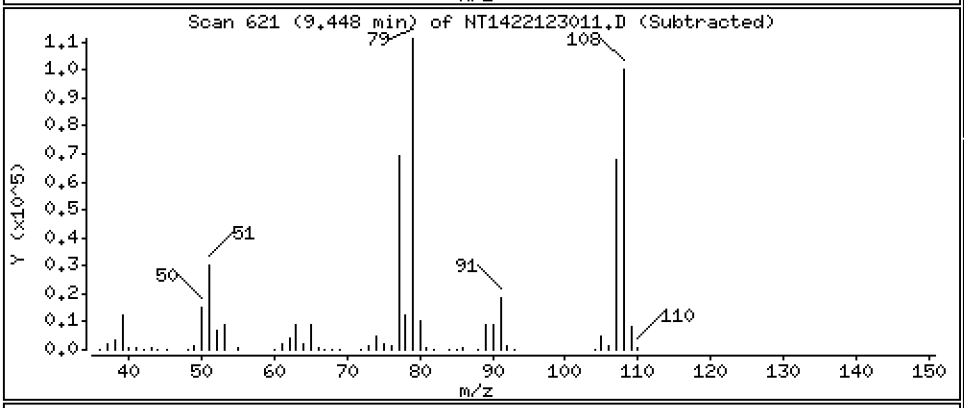
Column diameter: 0.25

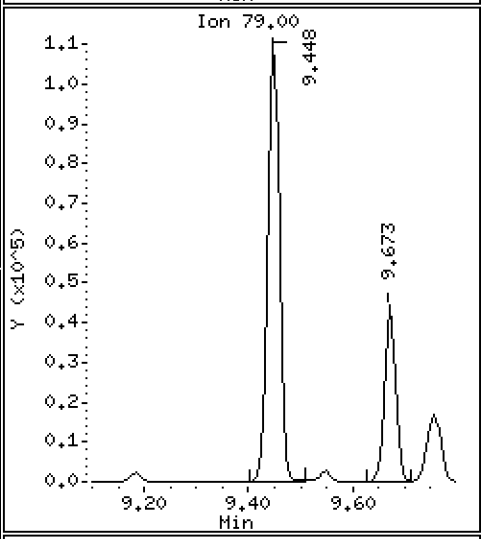
11 Benzyl alcohol

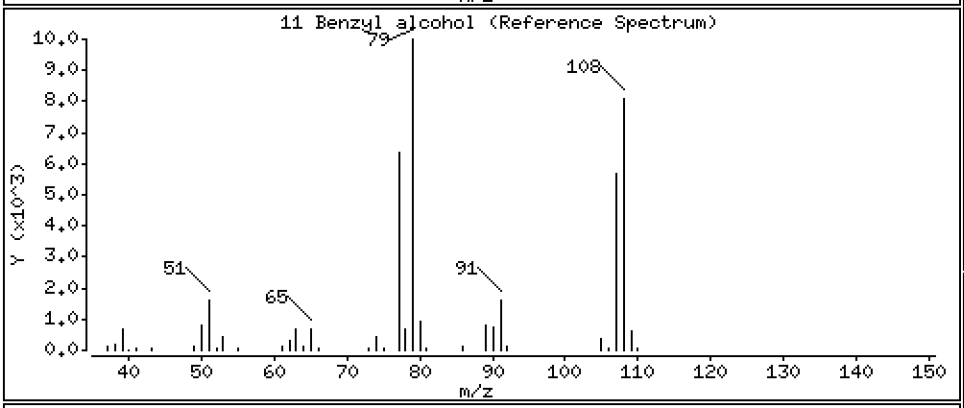
Concentration: 4.980 ug/mL

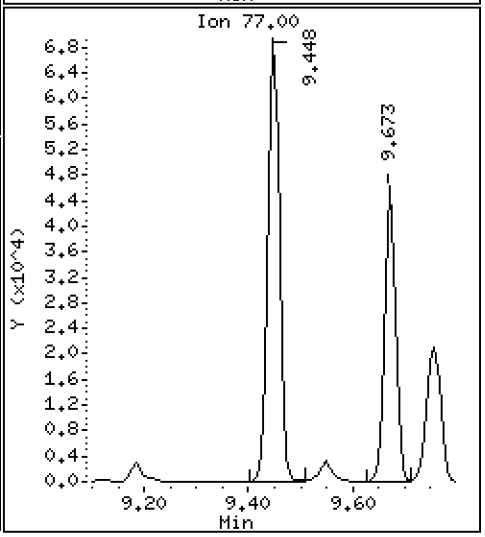


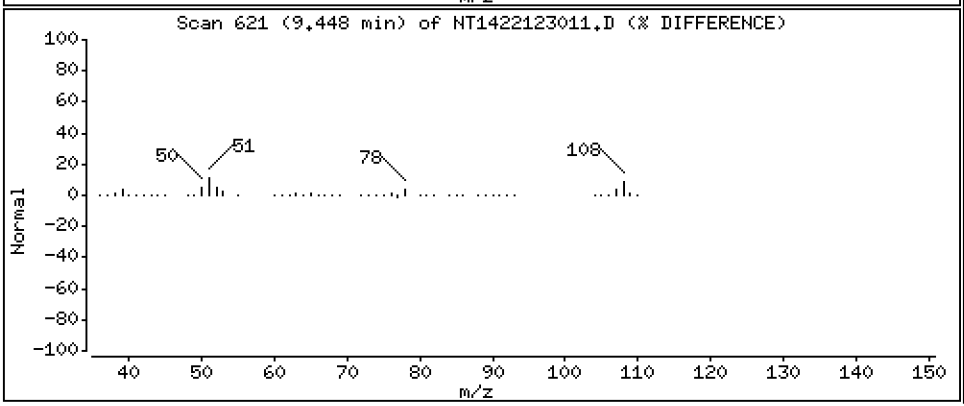












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

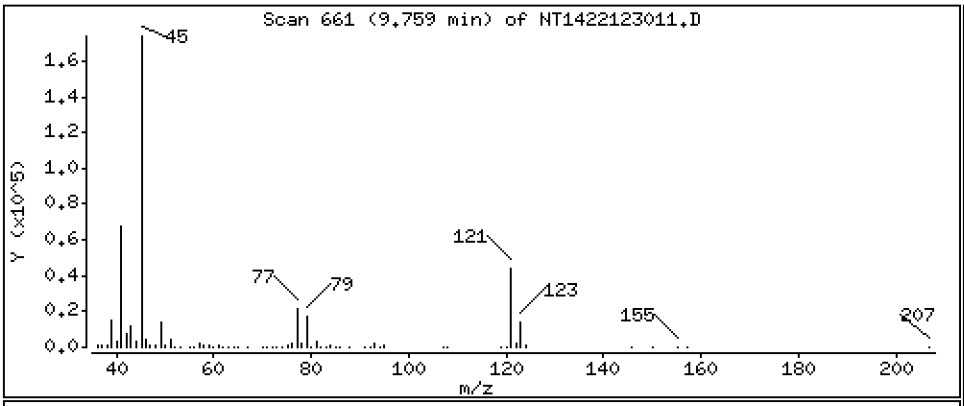
Operator: VTS

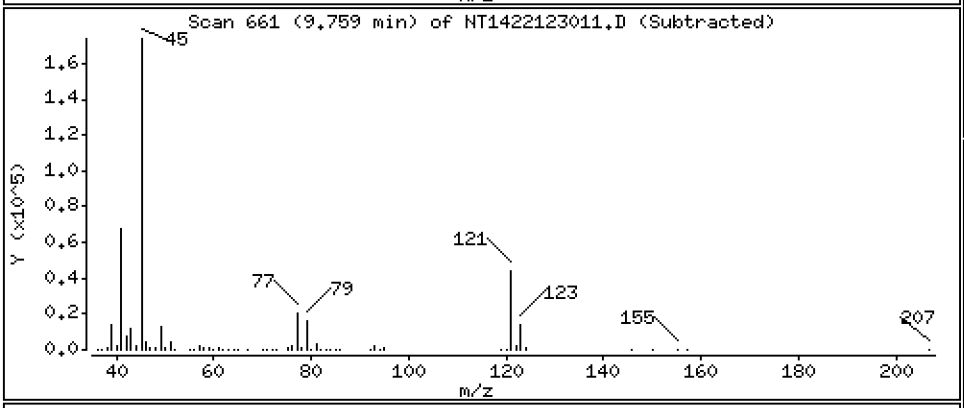
Column phase: ZB-5msi

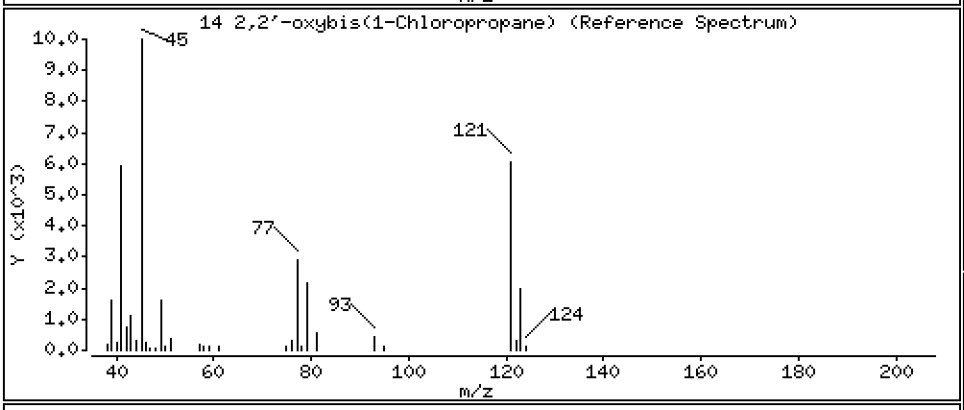
Column diameter: 0.25

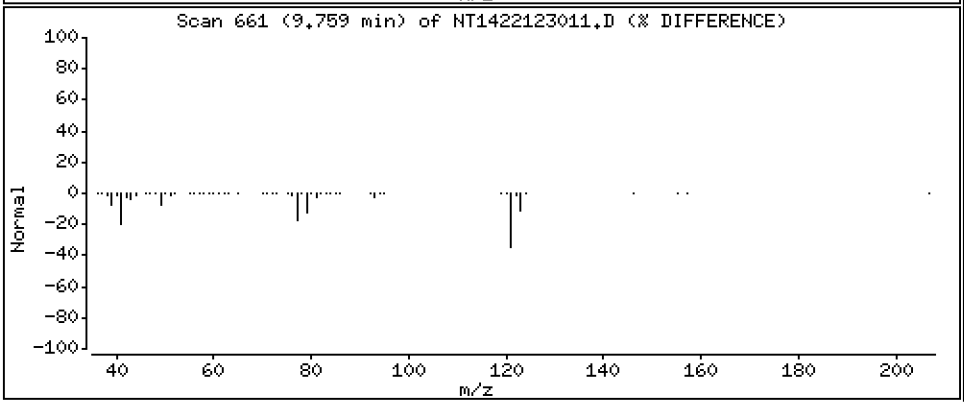
14 2,2'-oxybis(1-Chloropropane)

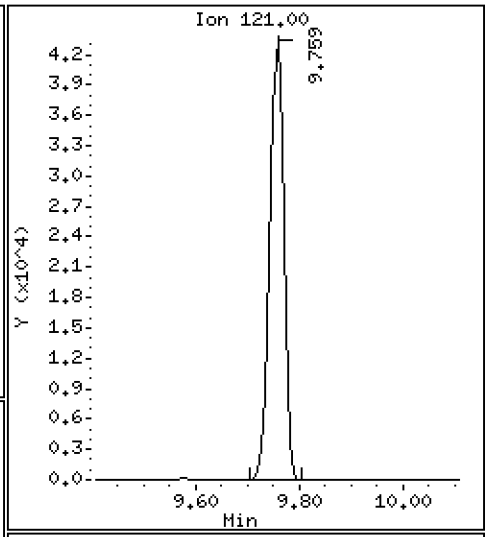
Concentration: 5.193 ug/mL

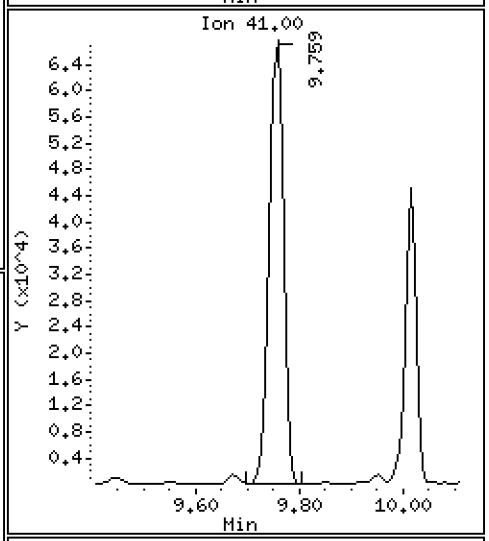


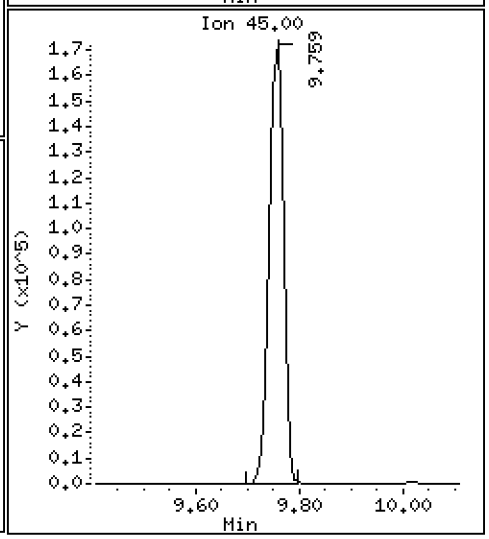












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

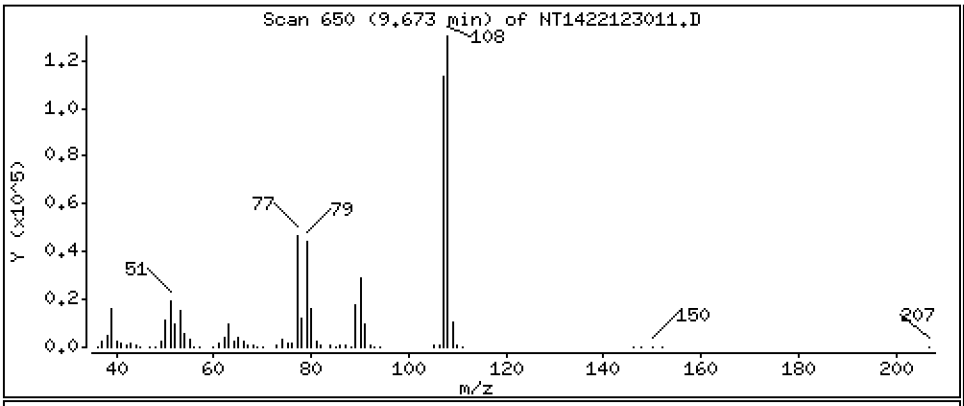
Operator: VTS

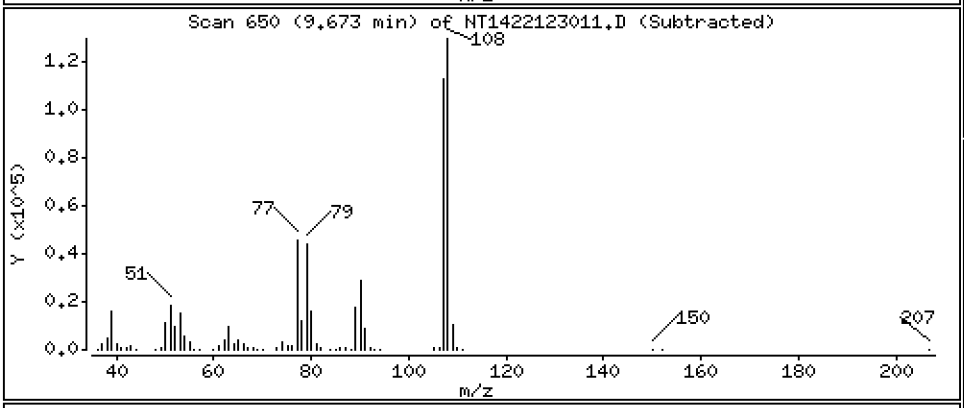
Column phase: ZB-5msi

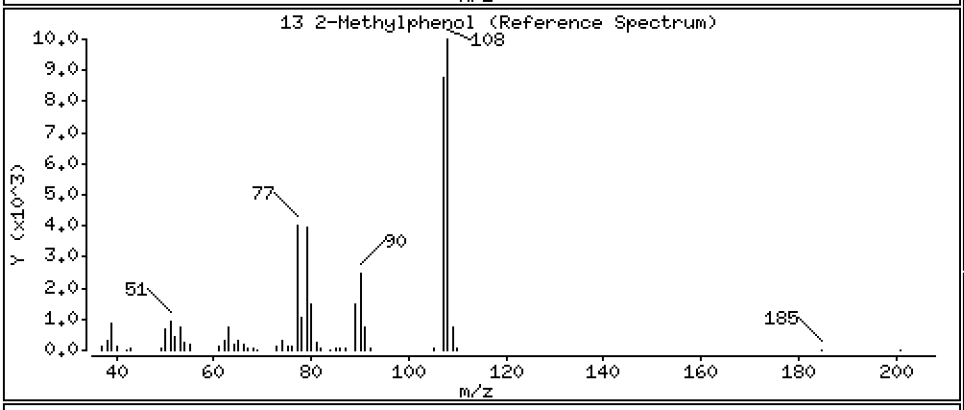
Column diameter: 0.25

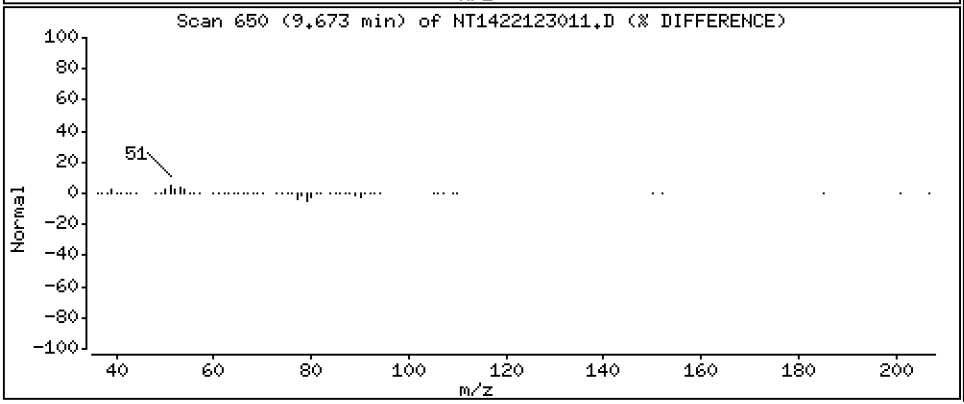
13 2-Methylphenol

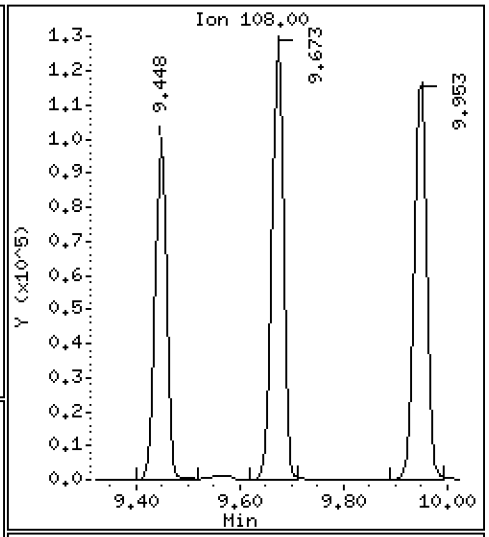
Concentration: 3.927 ug/mL

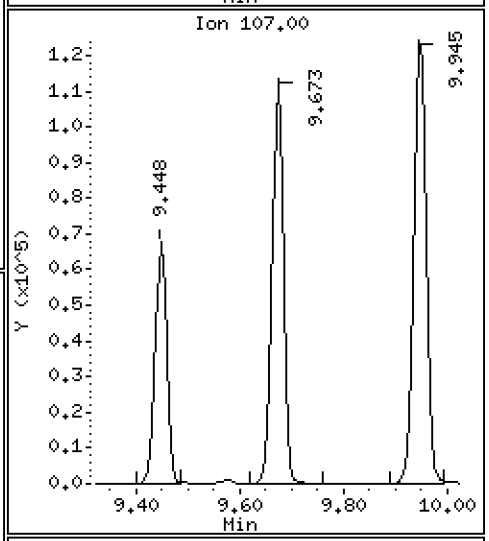


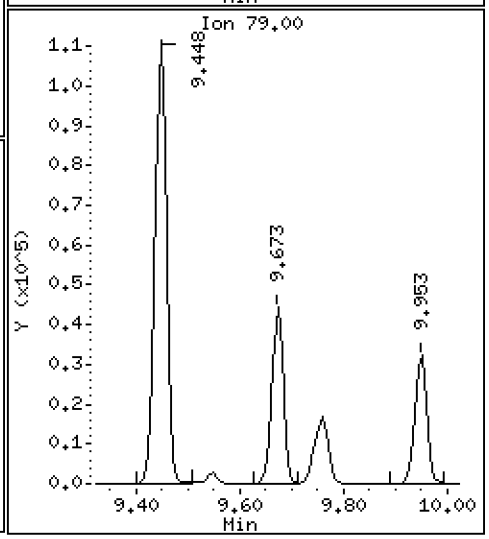












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

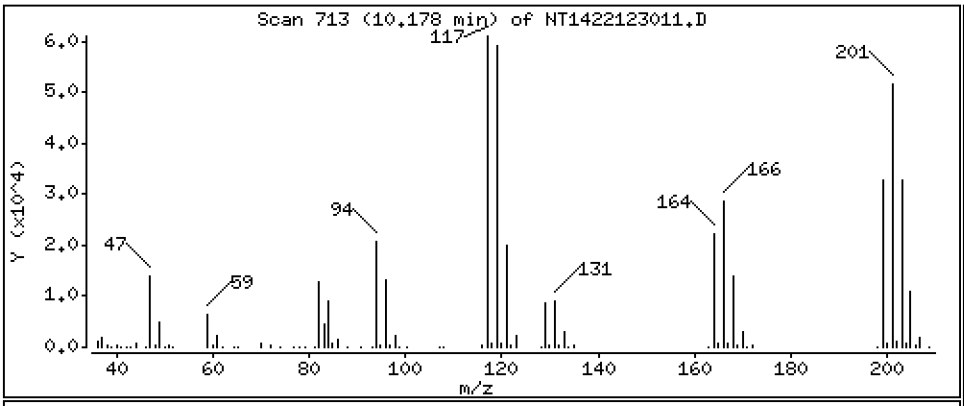
Operator: VTS

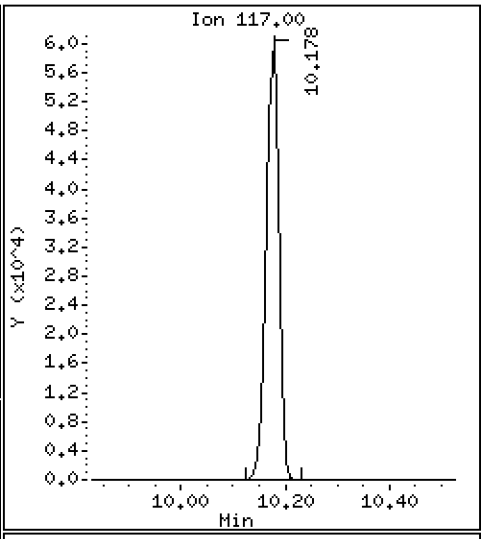
Column phase: ZB-5msi

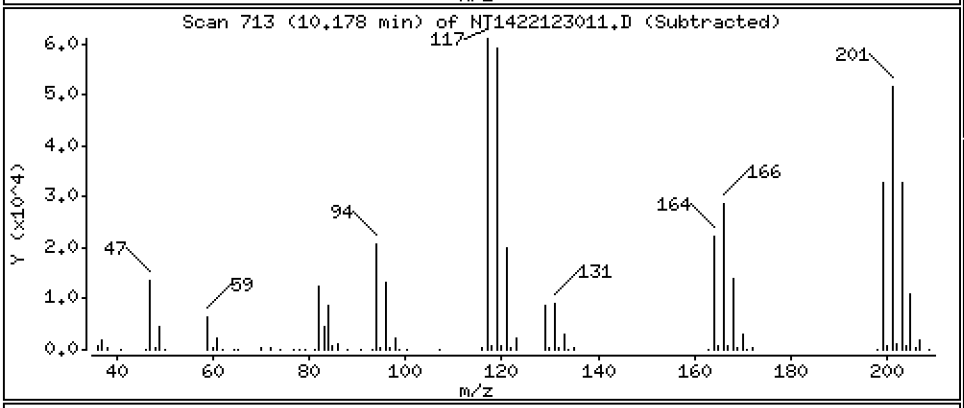
Column diameter: 0.25

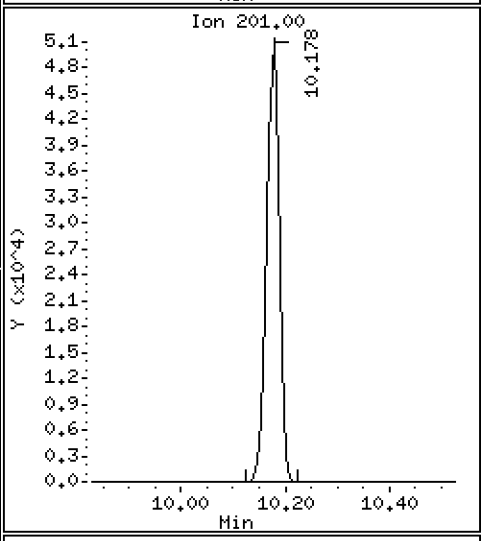
17 Hexachloroethane

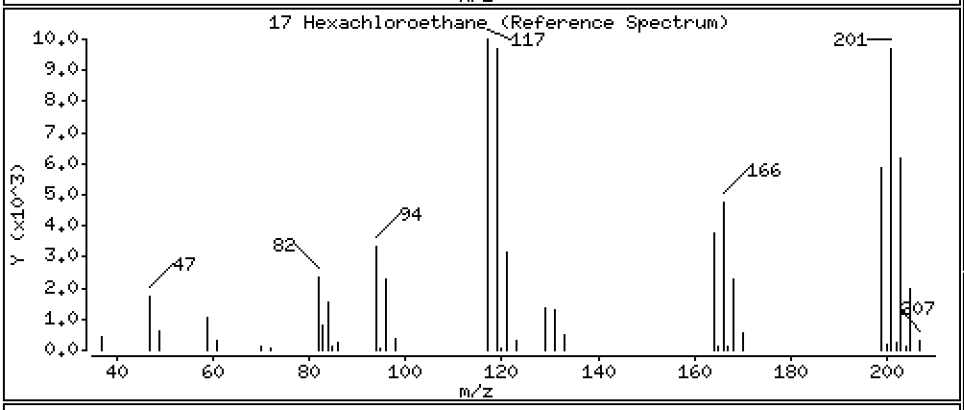
Concentration: 4.929 ug/mL

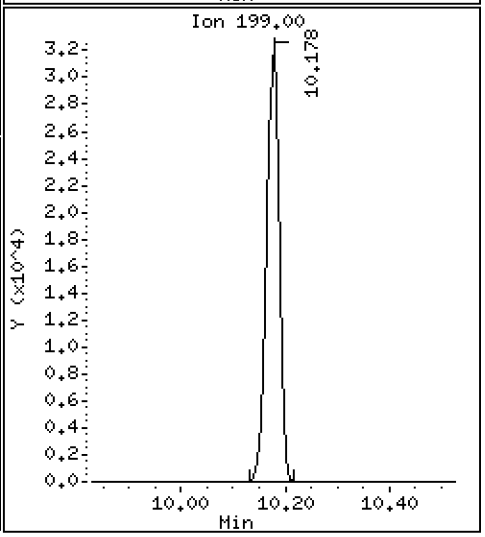


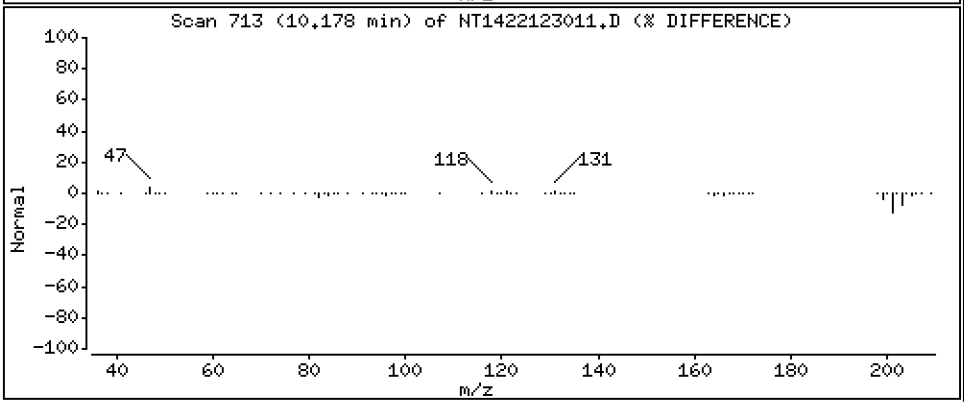












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

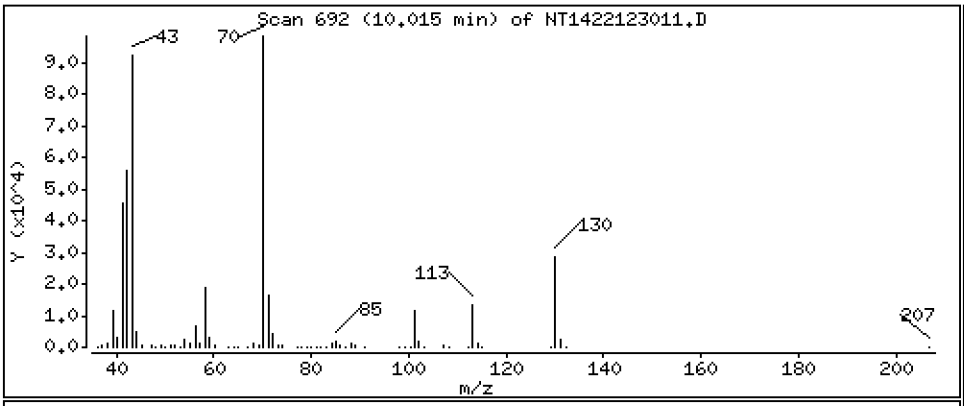
Operator: VTS

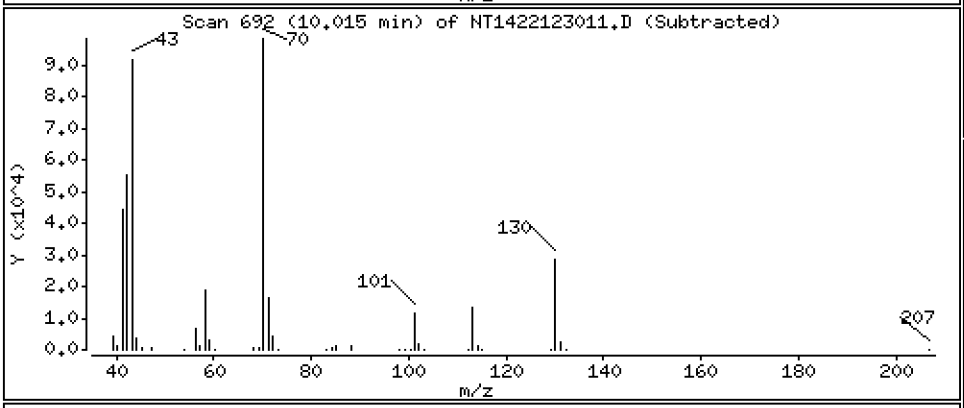
Column phase: ZB-5msi

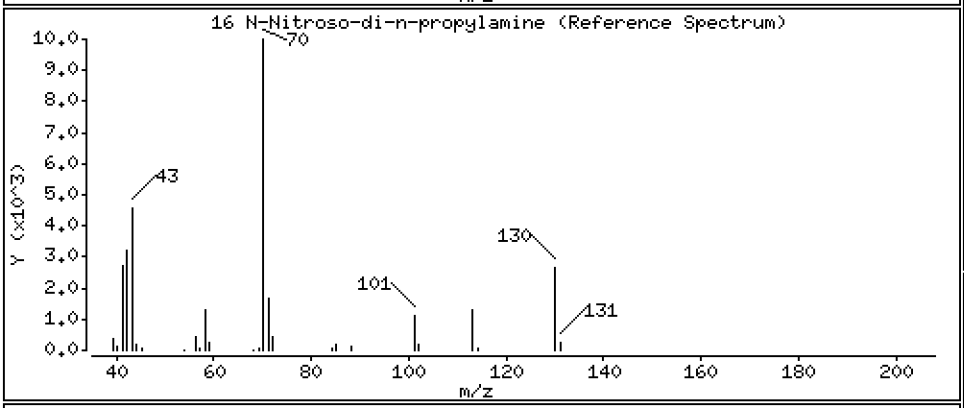
Column diameter: 0.25

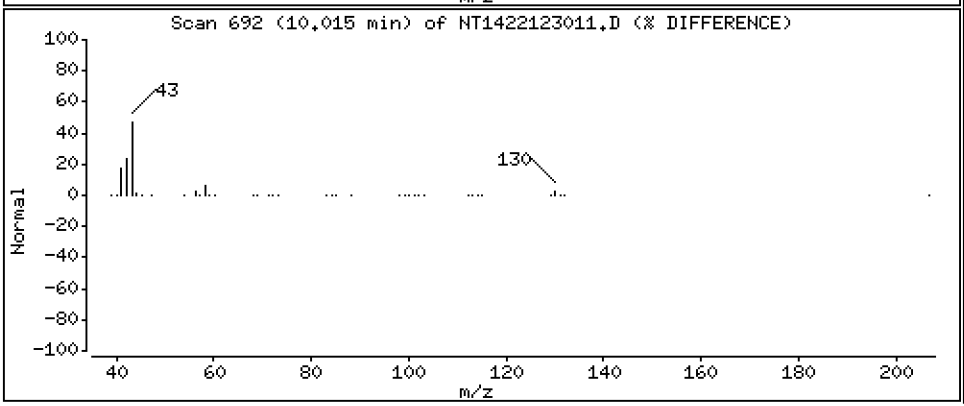
16 N-Nitroso-di-n-propylamine

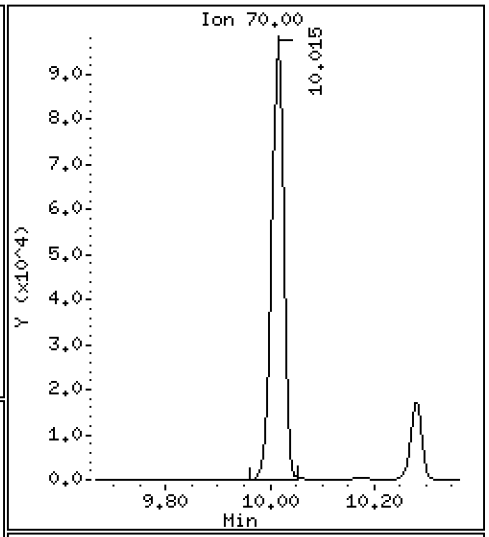
Concentration: 5.128 ug/mL

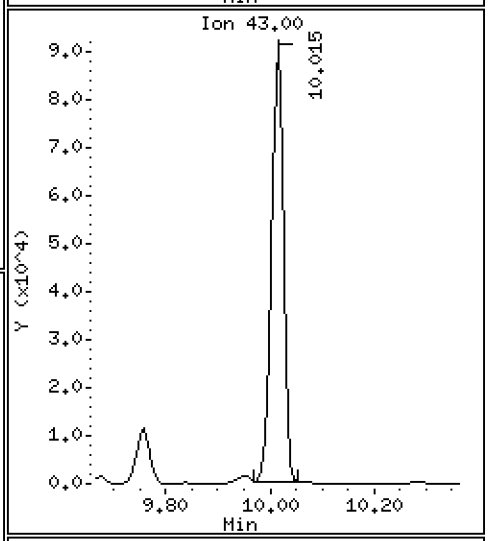


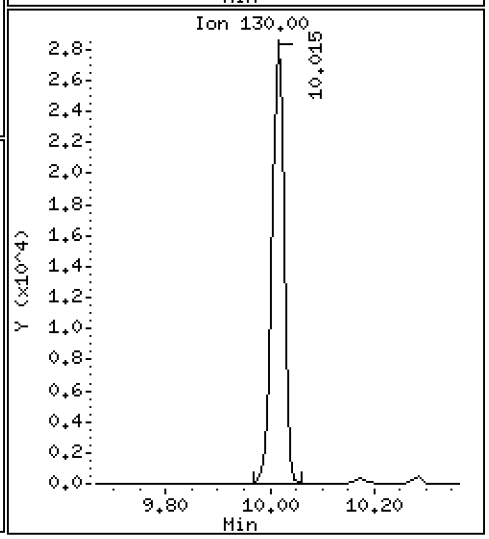












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

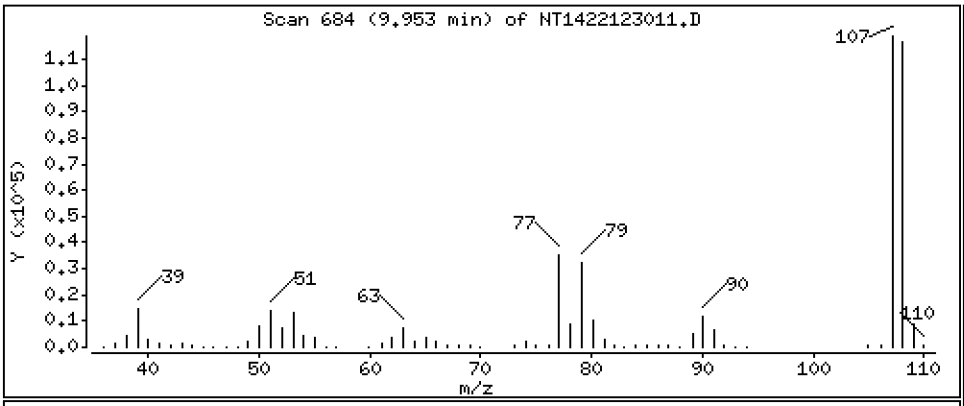
Operator: VTS

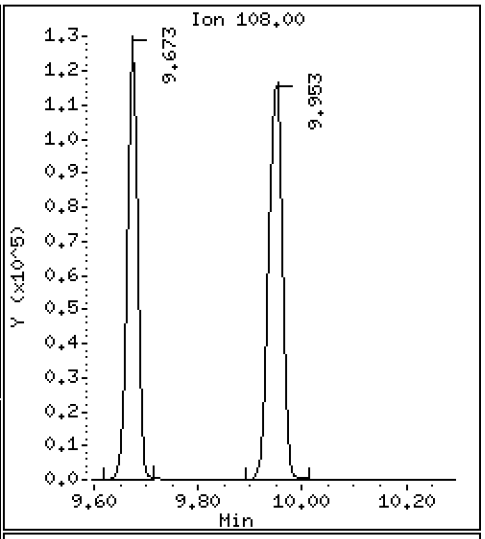
Column phase: ZB-5msi

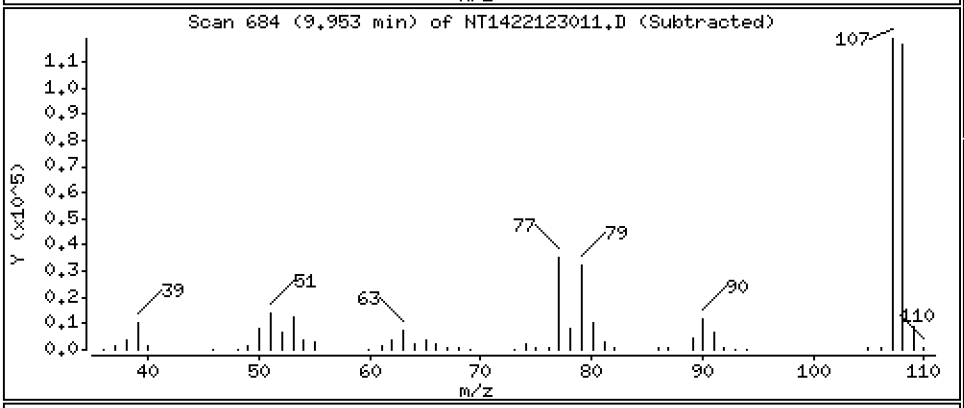
Column diameter: 0.25

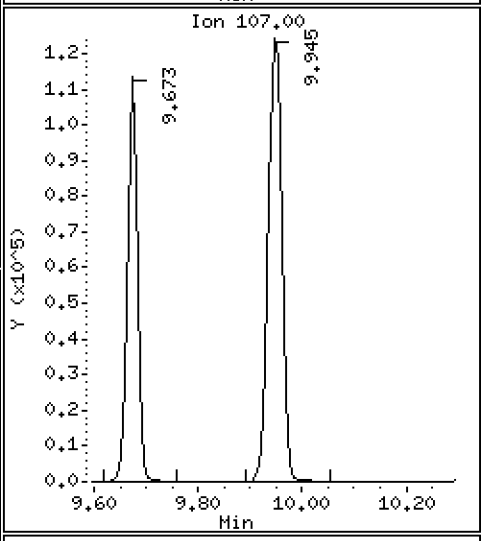
15 4-Methylphenol

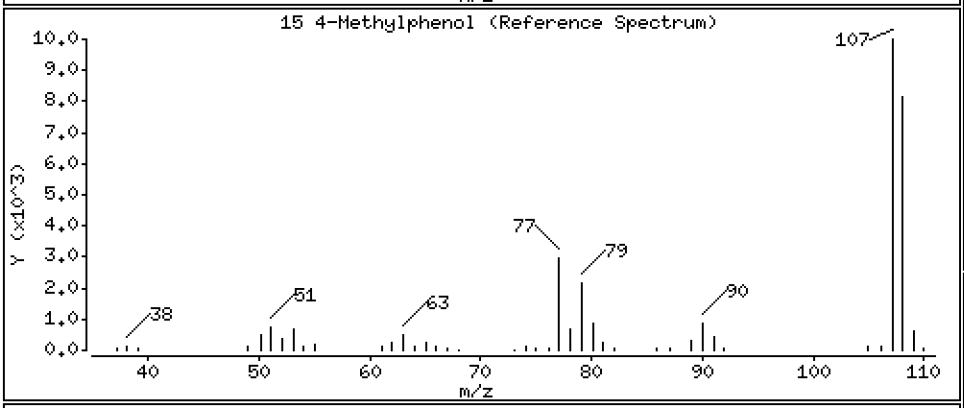
Concentration: 4.122 ug/mL

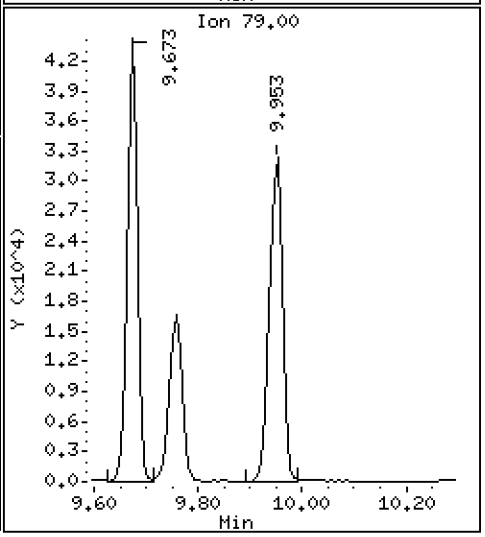


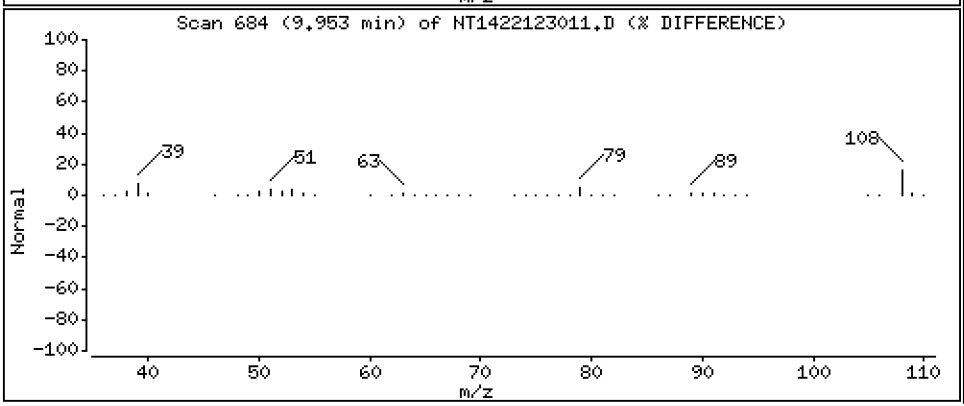












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

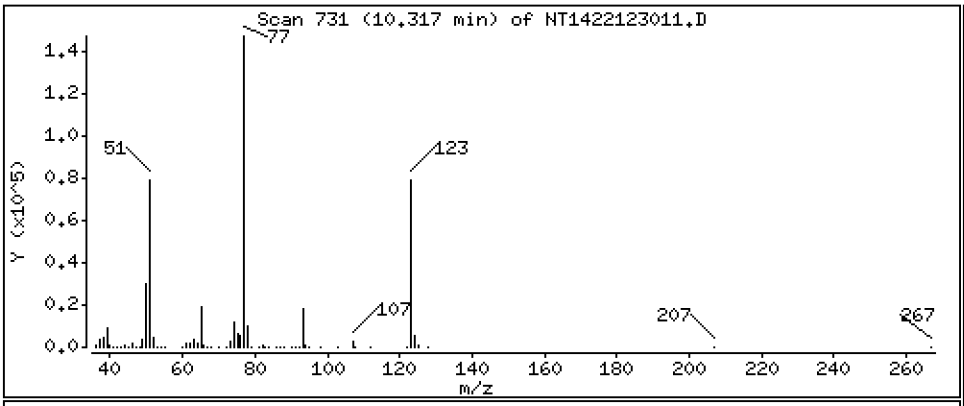
Operator: VTS

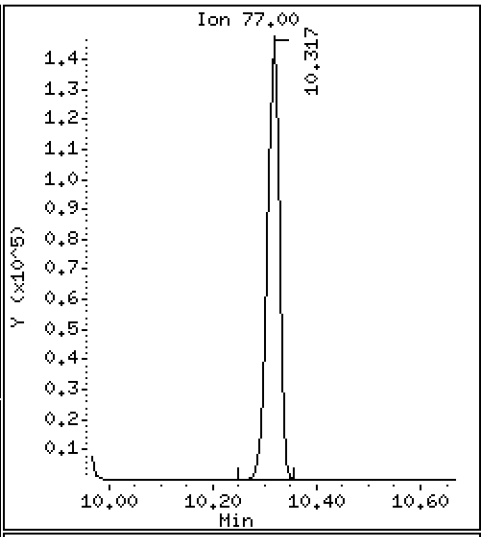
Column phase: ZB-5msi

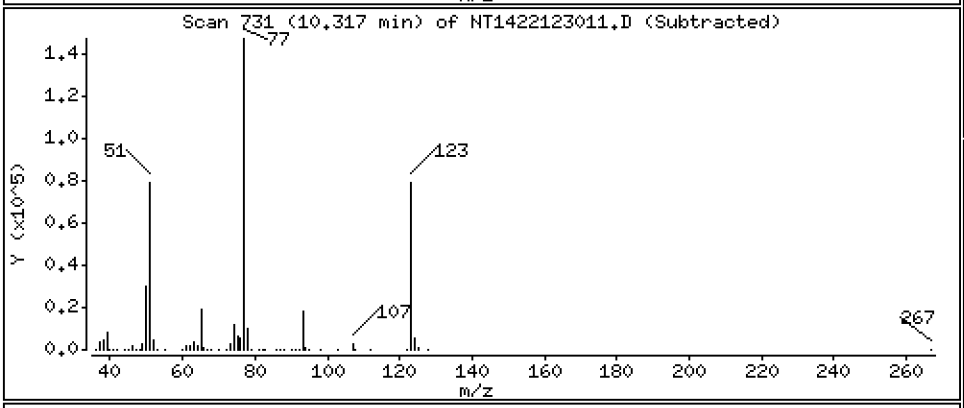
Column diameter: 0.25

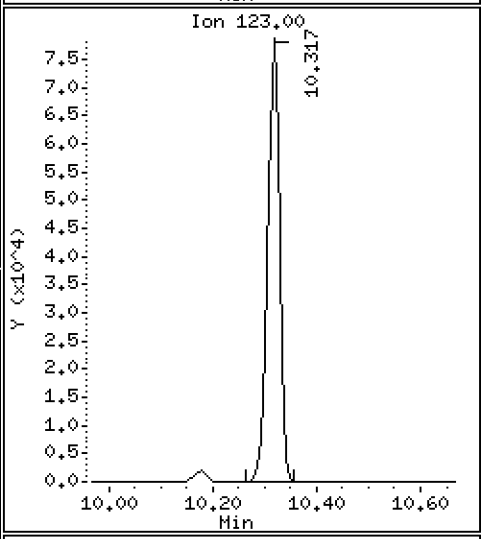
19 Nitrobenzene

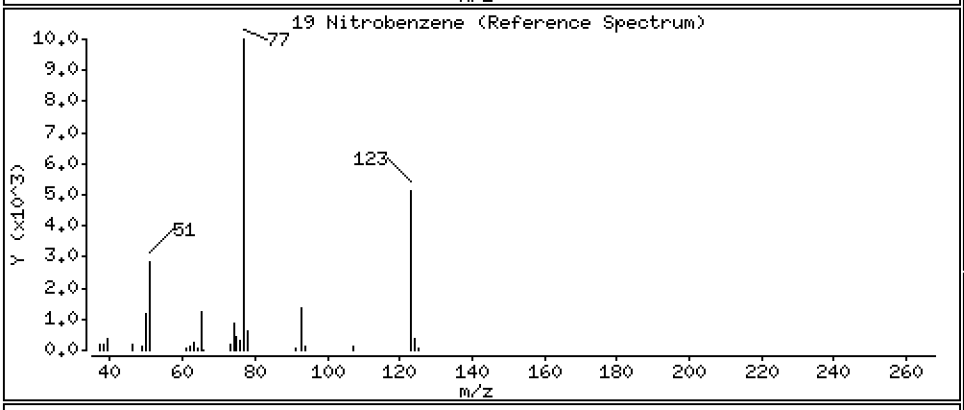
Concentration: 4.880 ug/mL

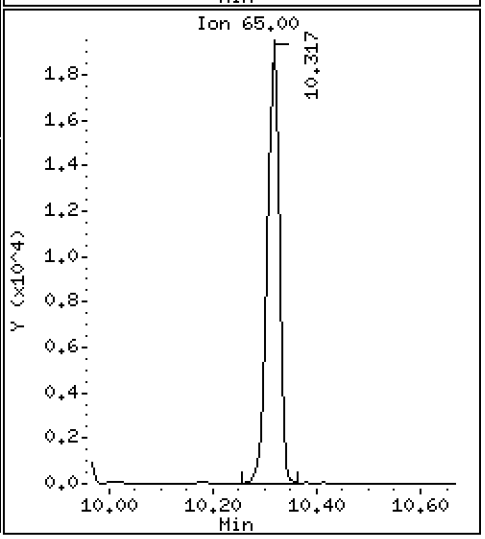


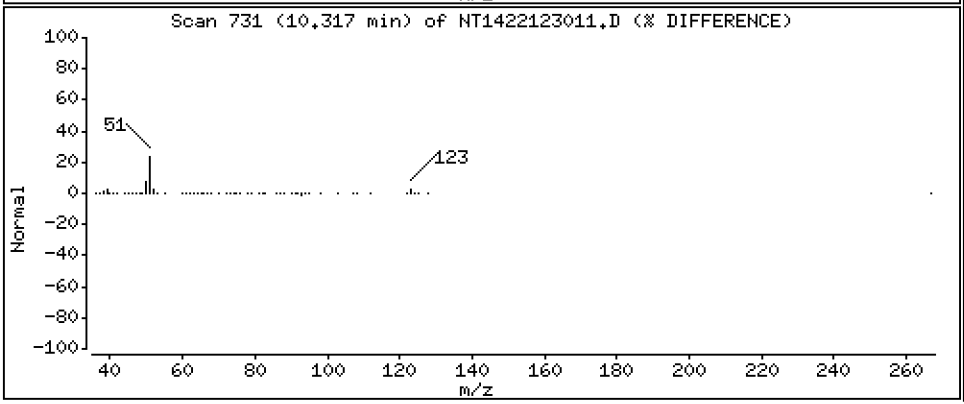












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

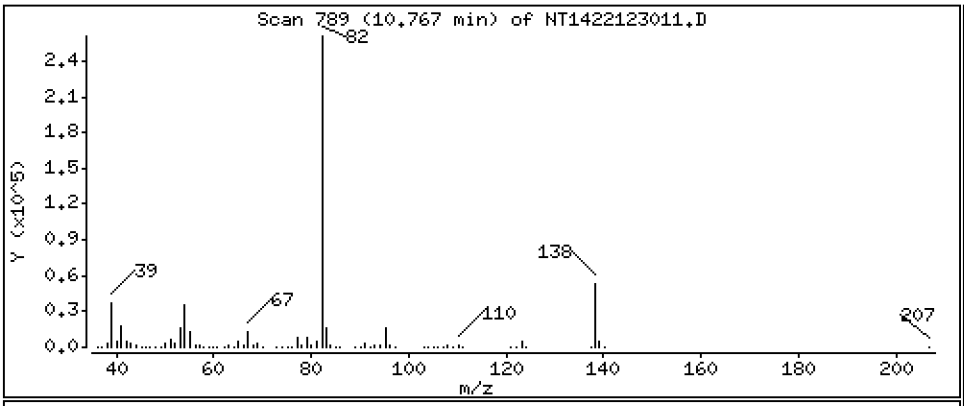
Operator: VTS

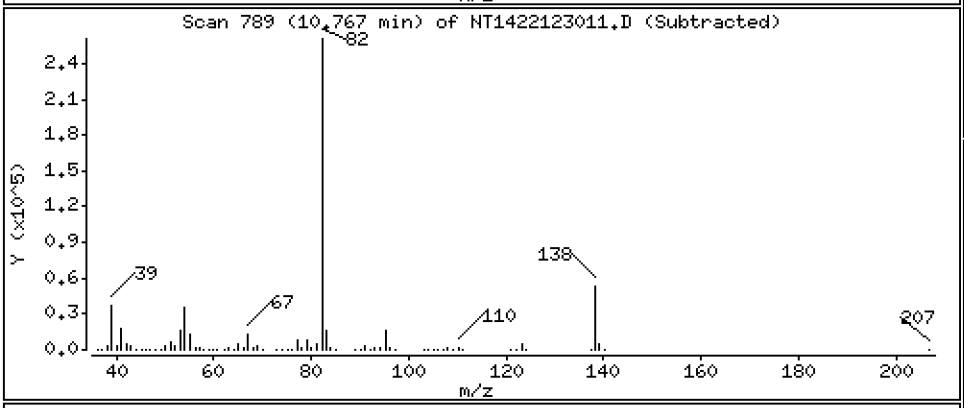
Column phase: ZB-5msi

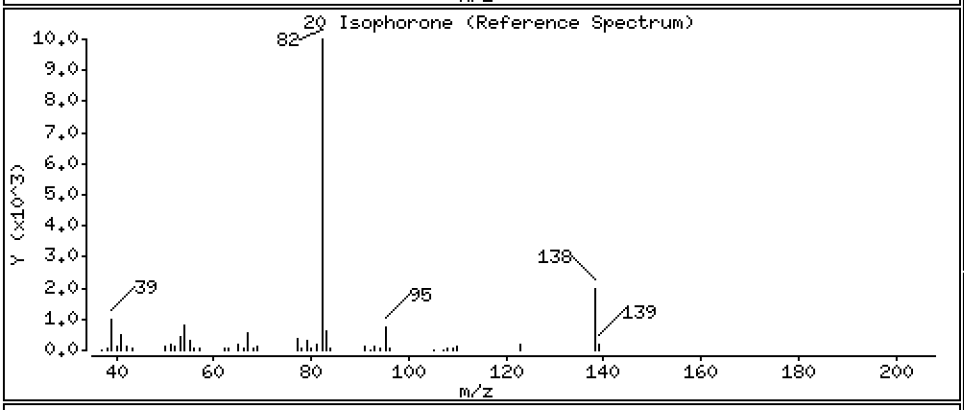
Column diameter: 0.25

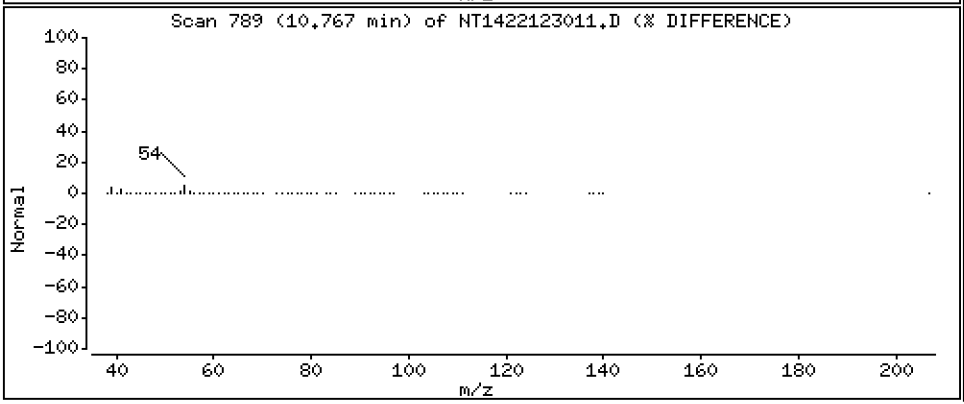
20 Isophorone

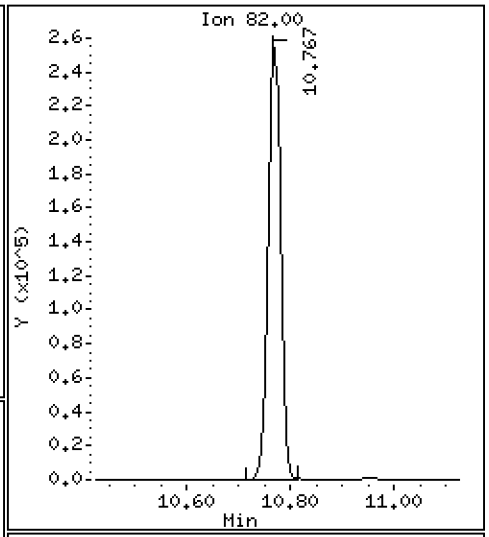
Concentration: 6.946 ug/mL

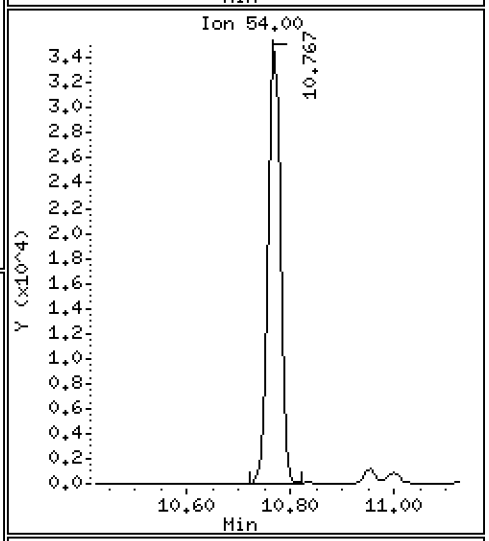


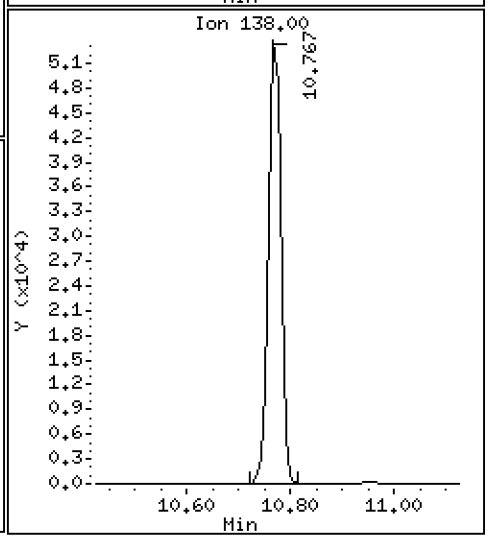












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

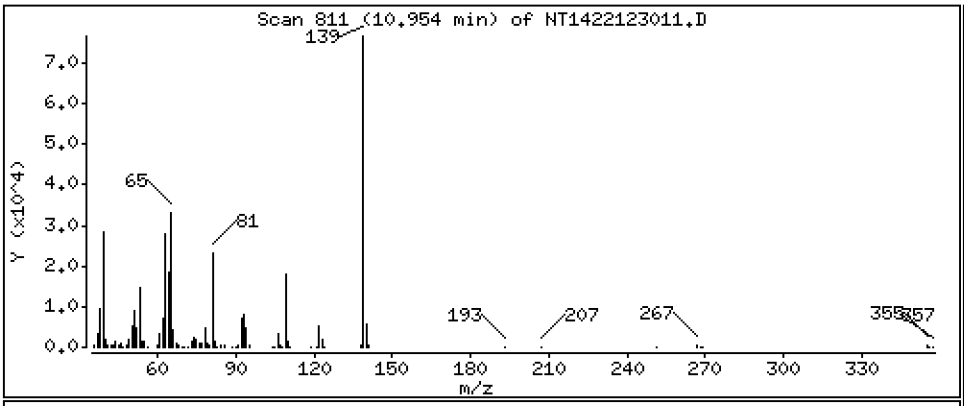
Operator: VTS

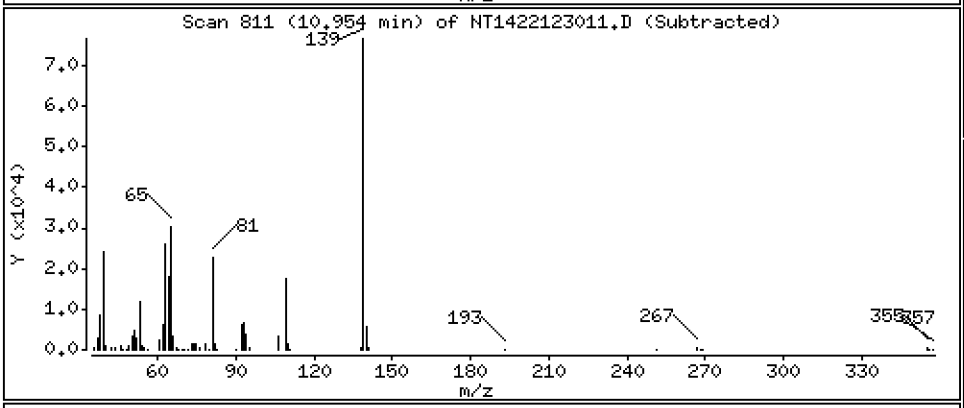
Column phase: ZB-5msi

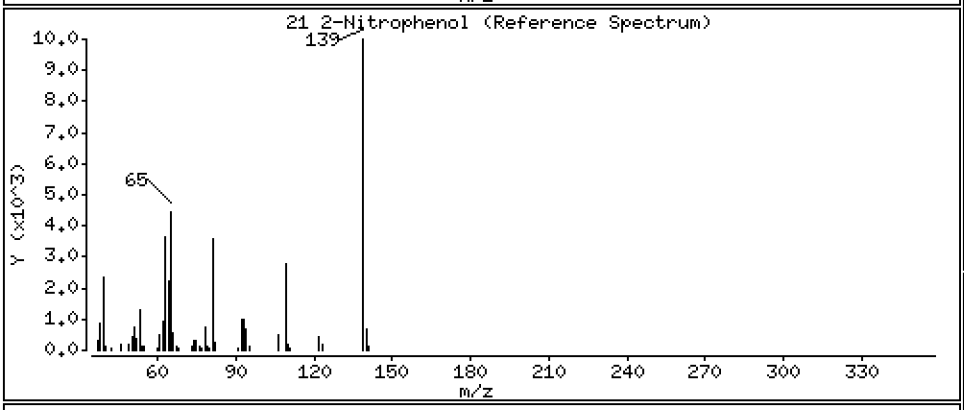
Column diameter: 0.25

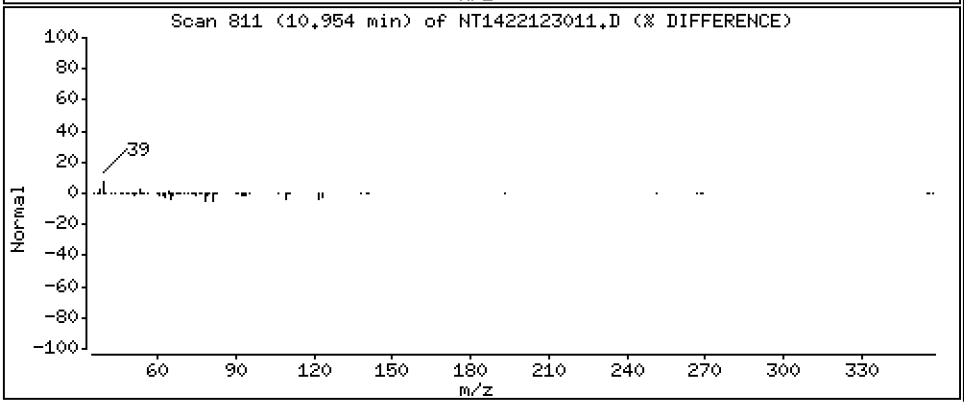
21 2-Nitrophenol

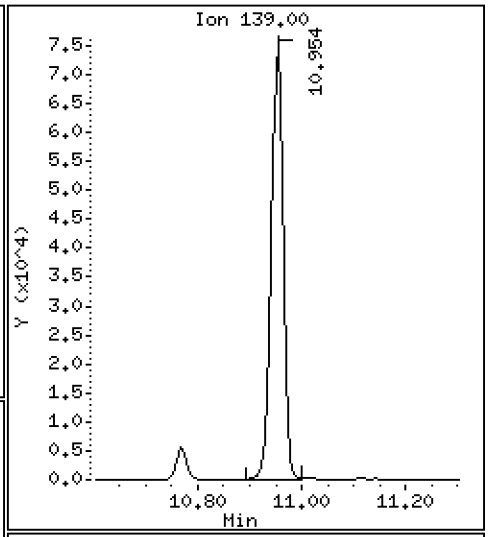
Concentration: 4.556 ug/mL

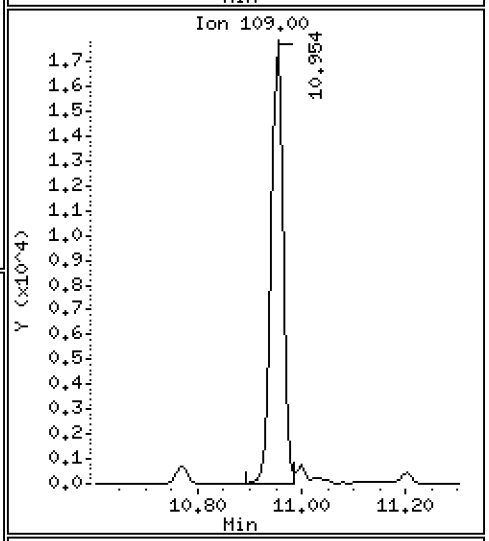


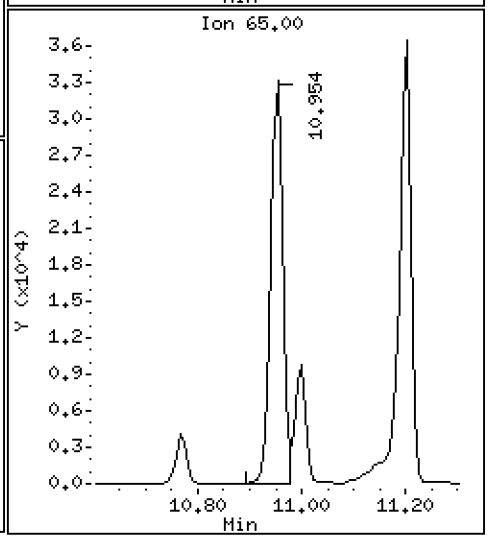












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

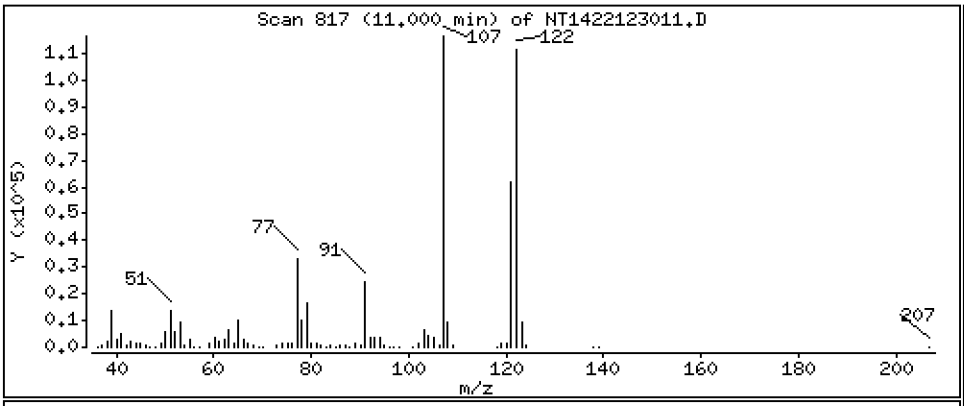
Operator: VTS

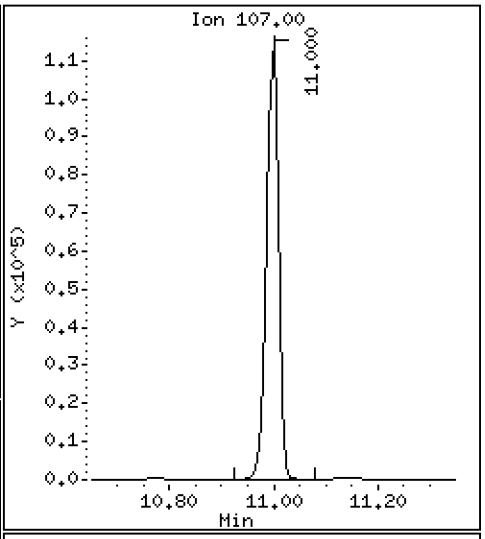
Column phase: ZB-5msi

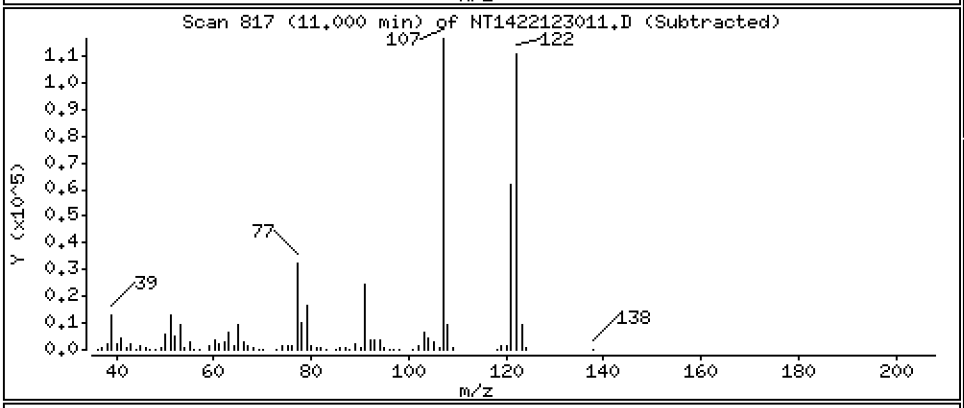
Column diameter: 0.25

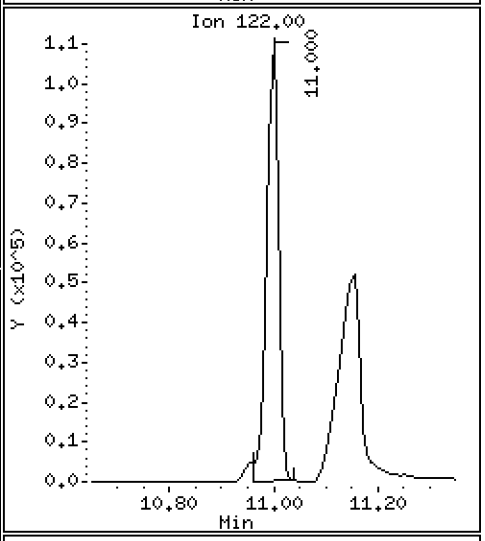
22 2,4-Dimethylphenol

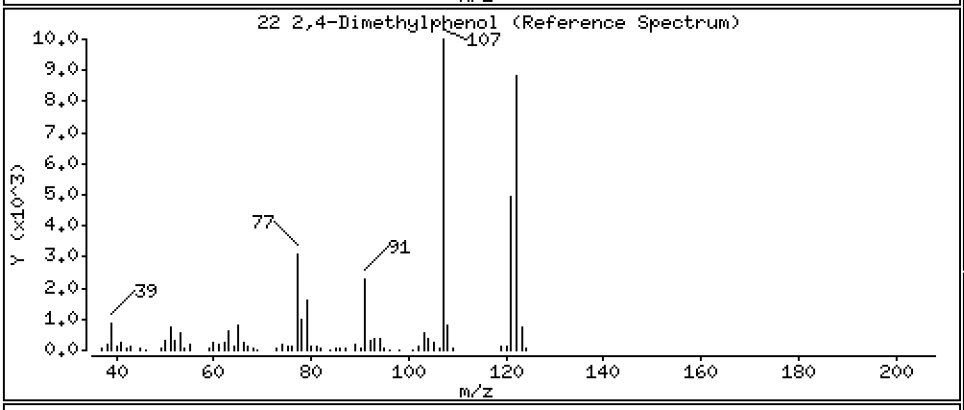
Concentration: 3.663 ug/mL

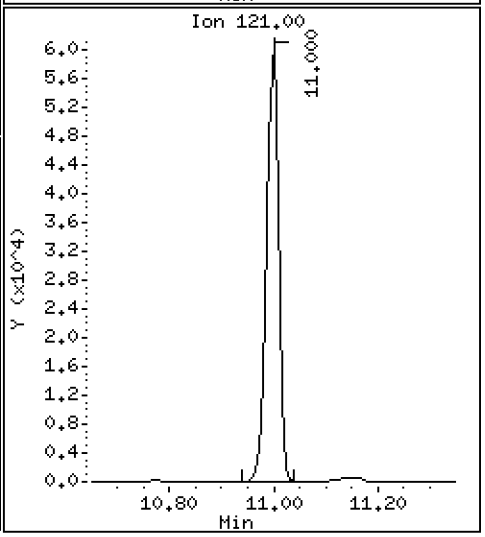


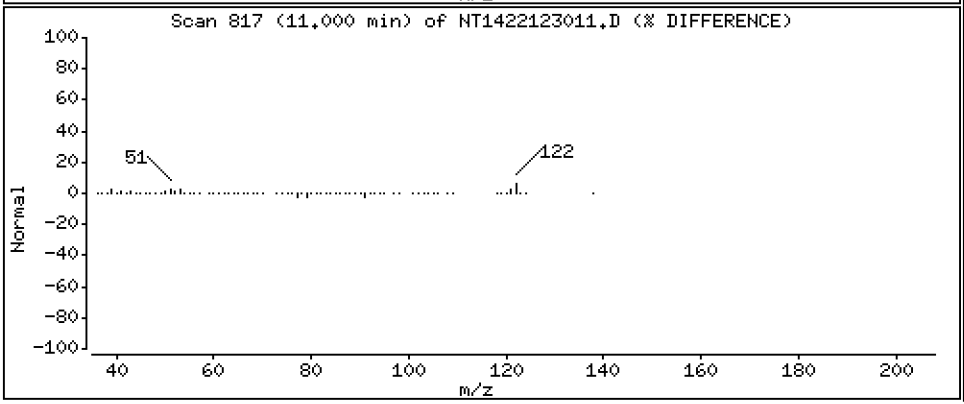












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

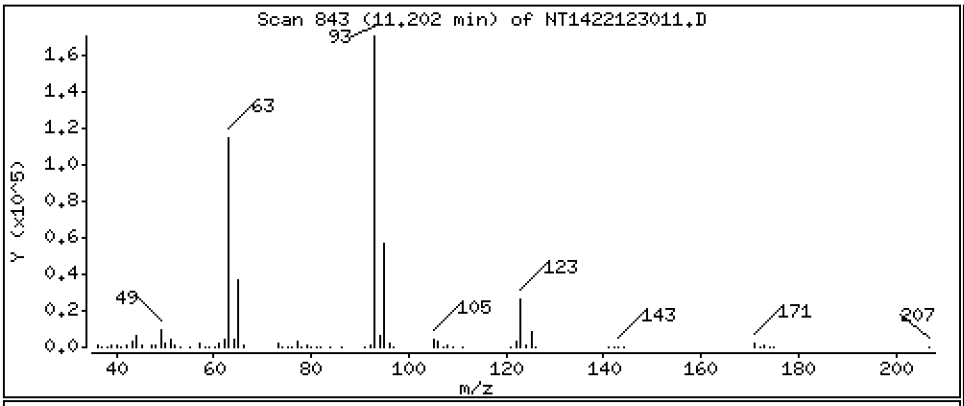
Operator: VTS

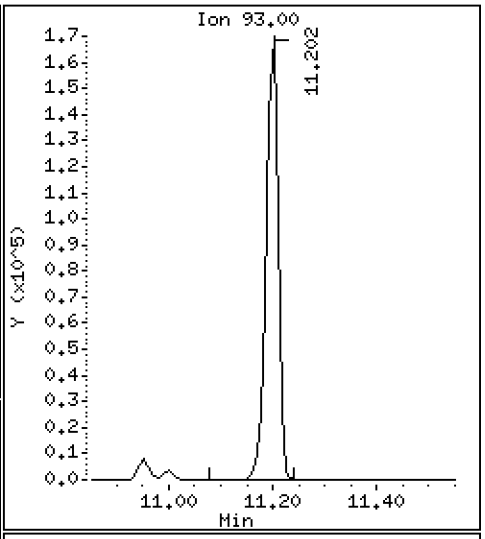
Column phase: ZB-5msi

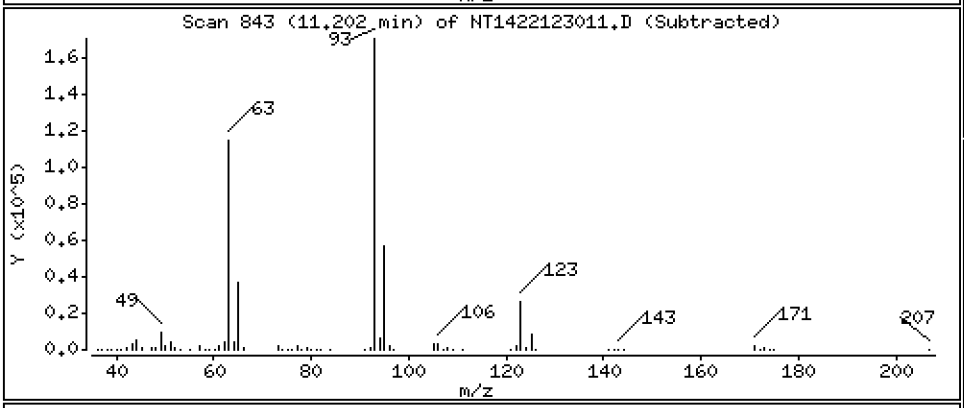
Column diameter: 0.25

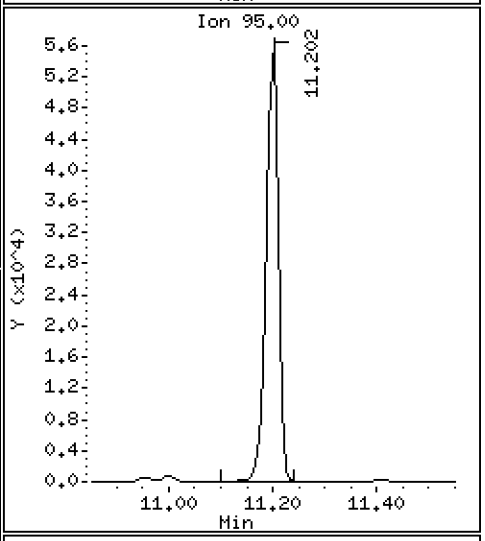
23 Bis(2-Chloroethoxy)methane

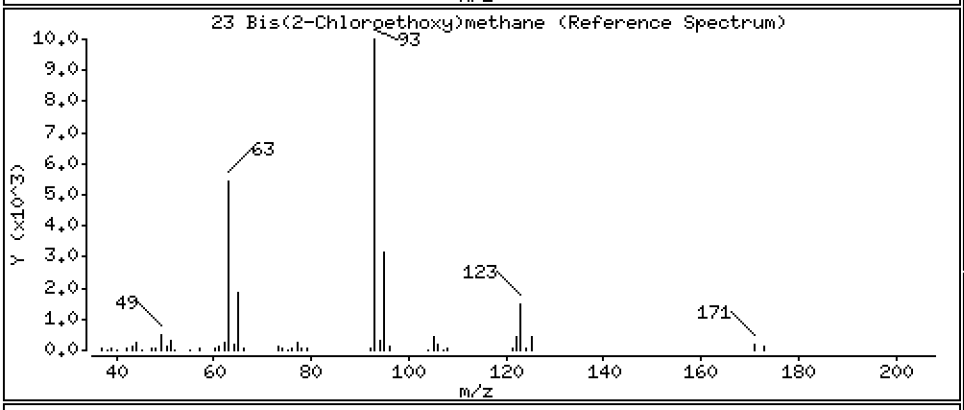
Concentration: 5.670 ug/mL

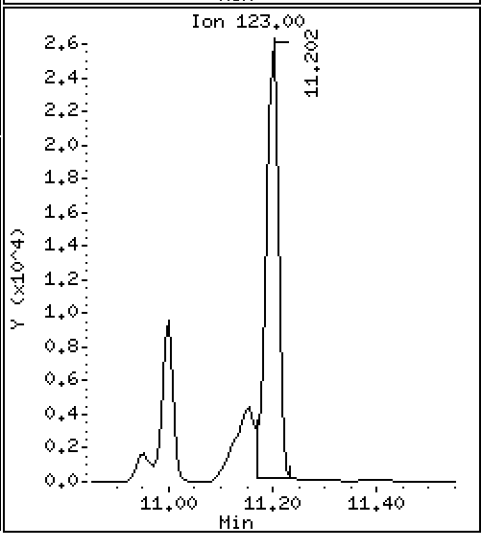


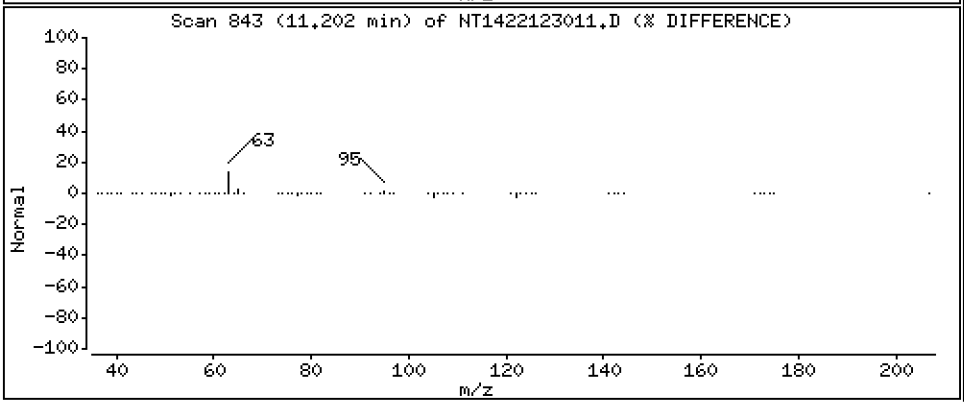












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

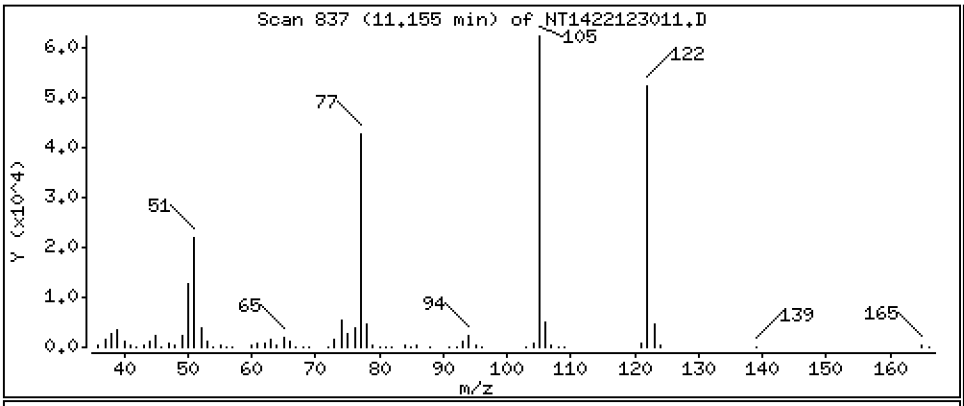
Operator: VTS

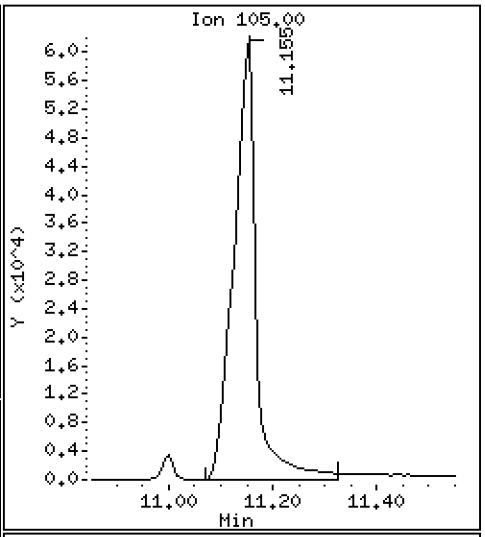
Column phase: ZB-5msi

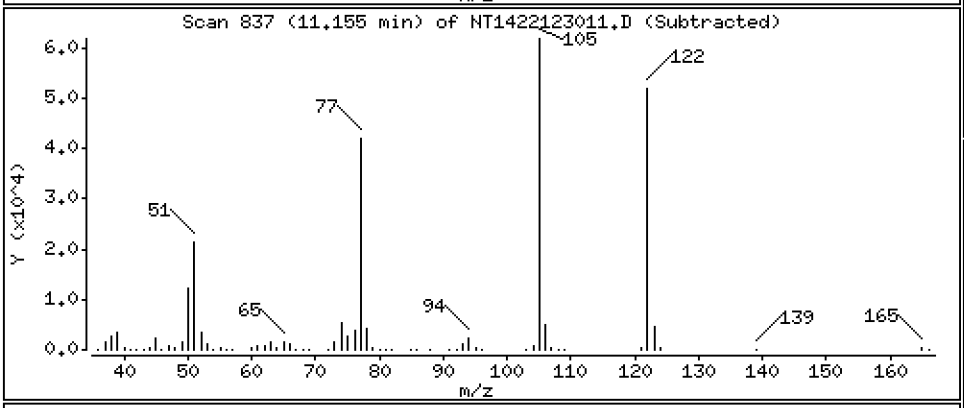
Column diameter: 0.25

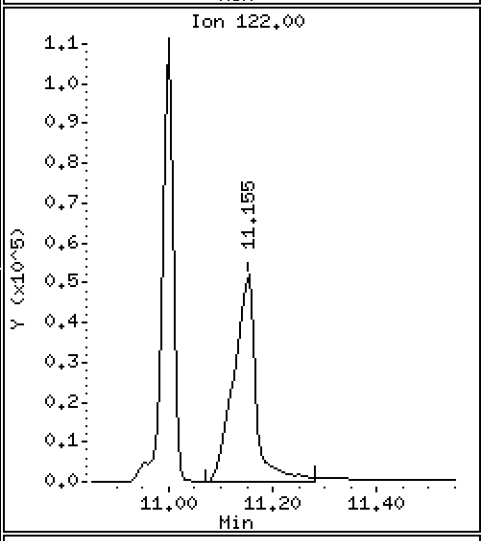
24 Benzoic acid

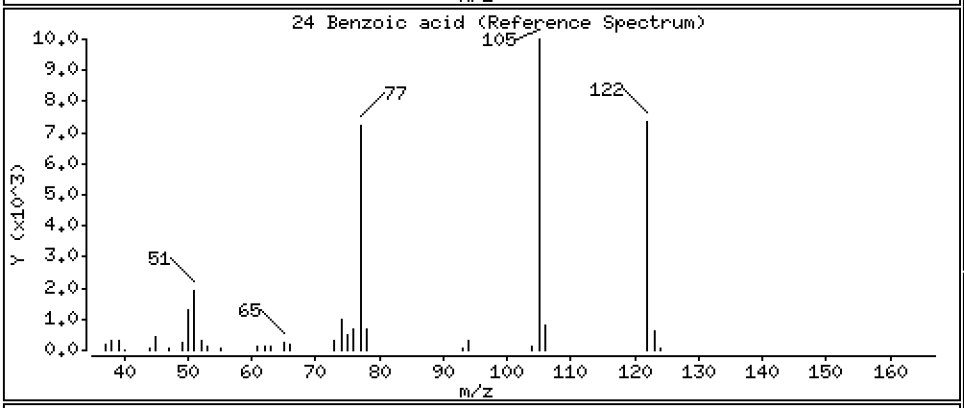
Concentration: 6.385 ug/mL

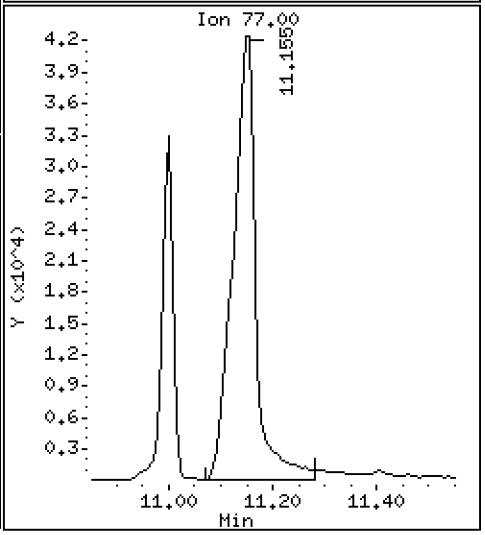


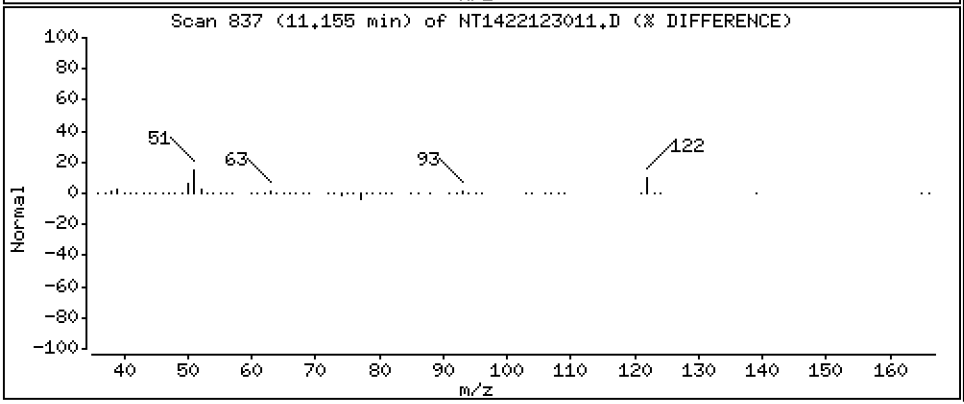












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

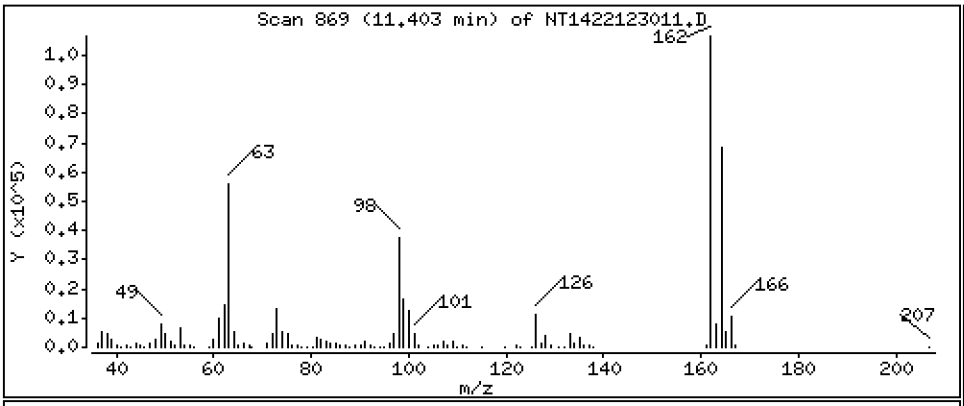
Operator: VTS

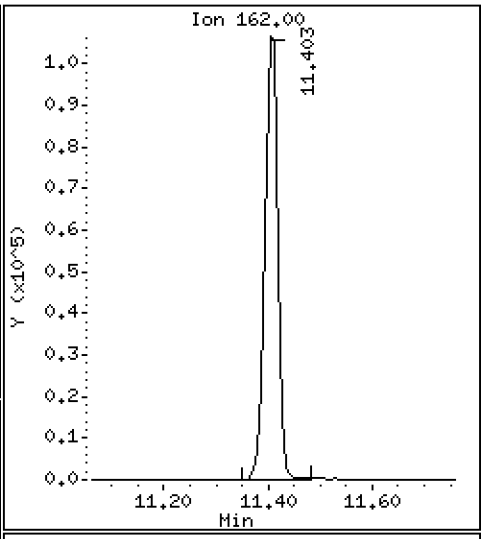
Column phase: ZB-5msi

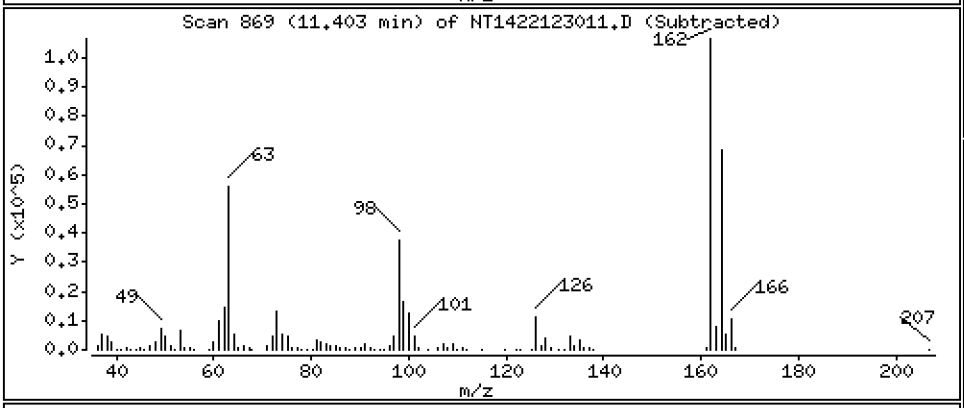
Column diameter: 0.25

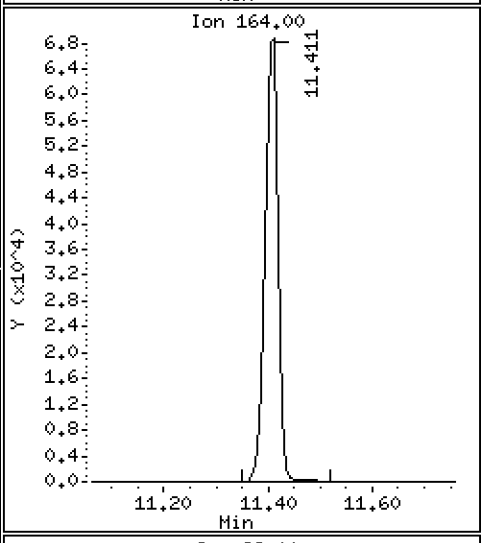
25 2,4-Dichlorophenol

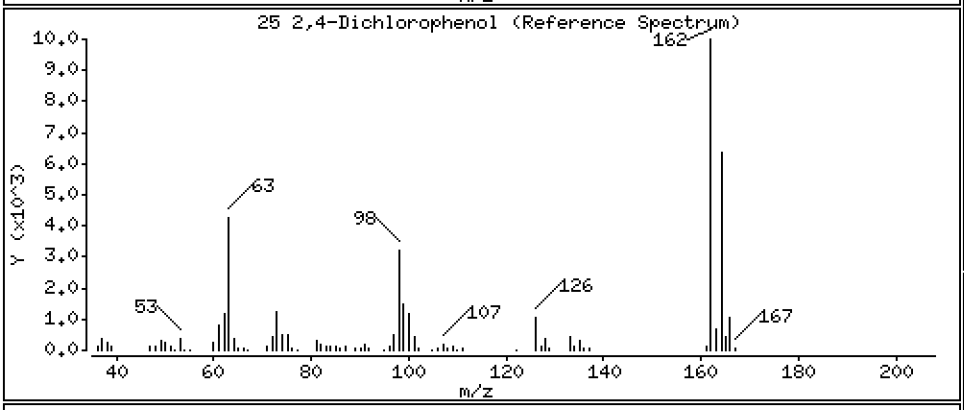
Concentration: 4.388 ug/mL

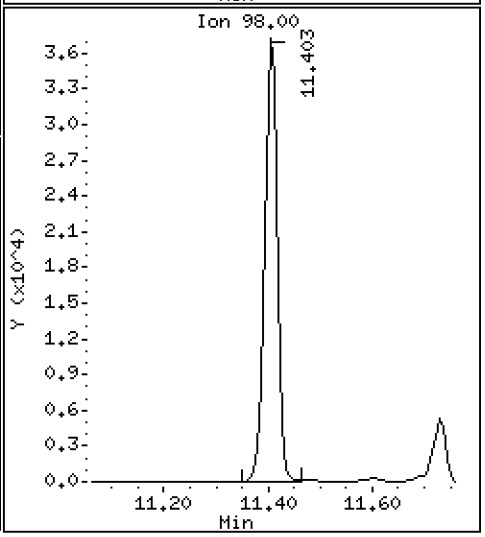


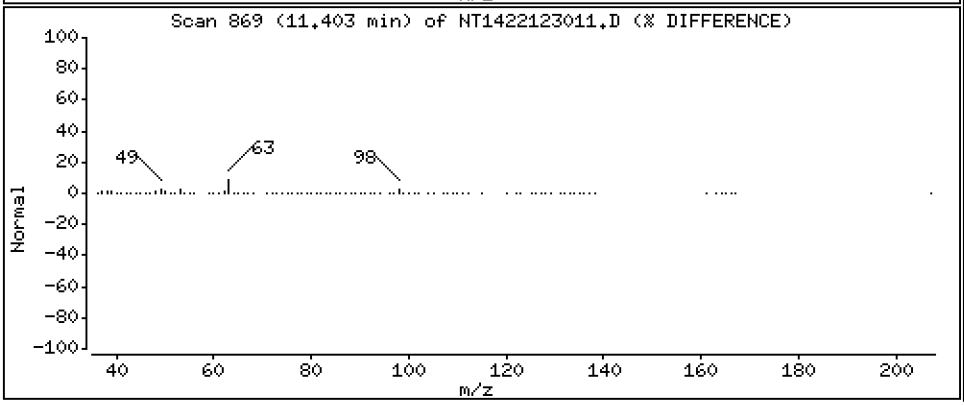












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

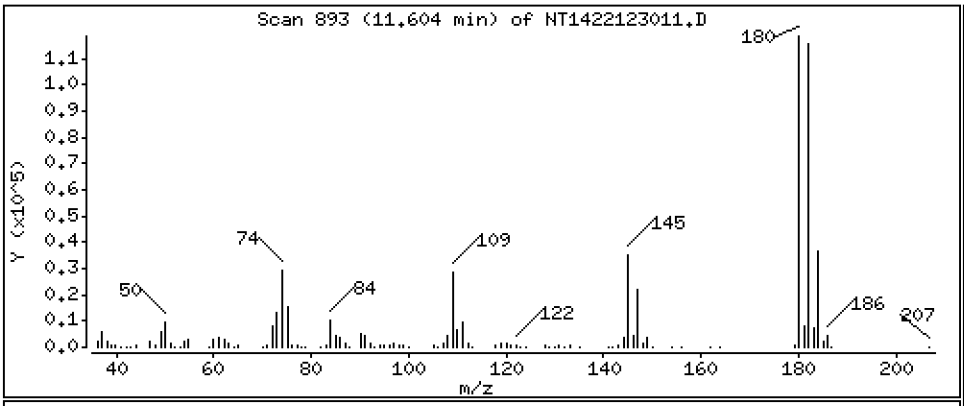
Operator: VTS

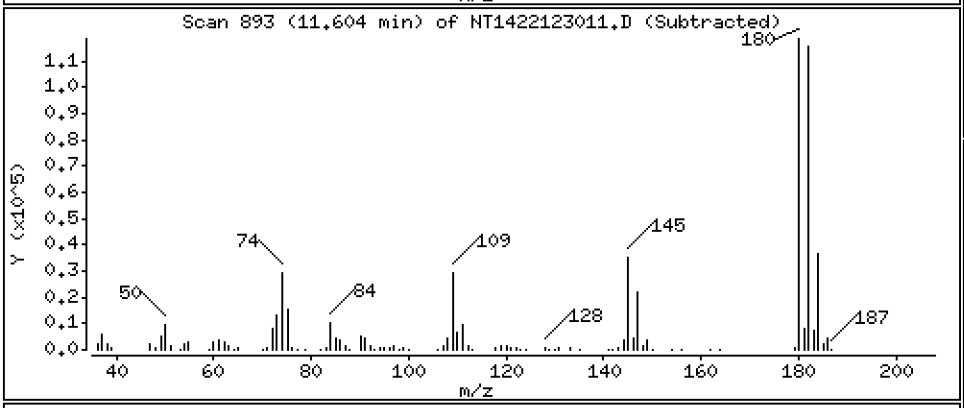
Column phase: ZB-5msi

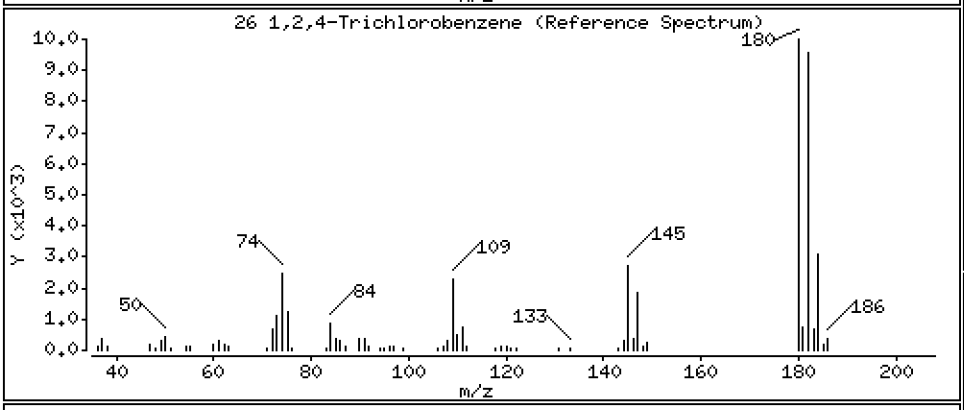
Column diameter: 0.25

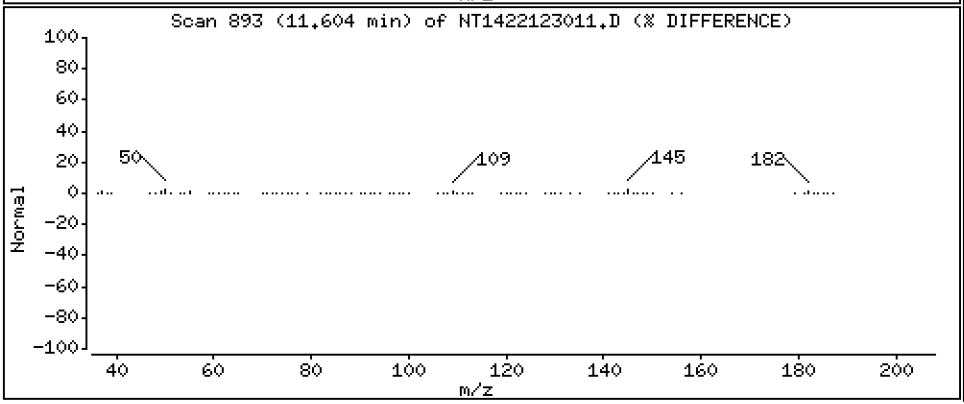
26 1,2,4-Trichlorobenzene

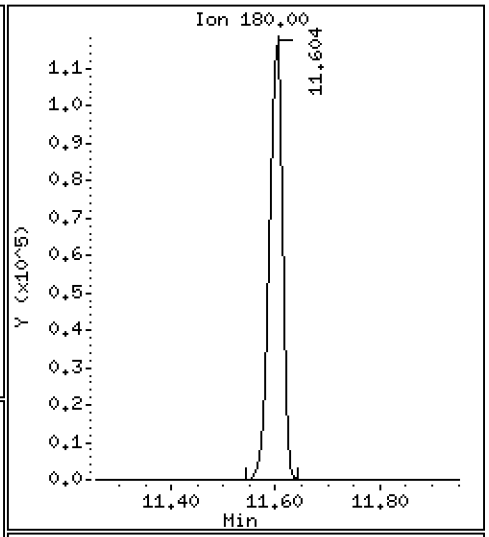
Concentration: 4.574 ug/mL

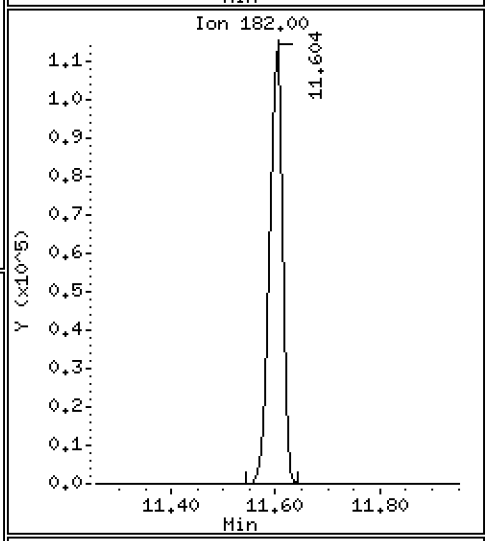


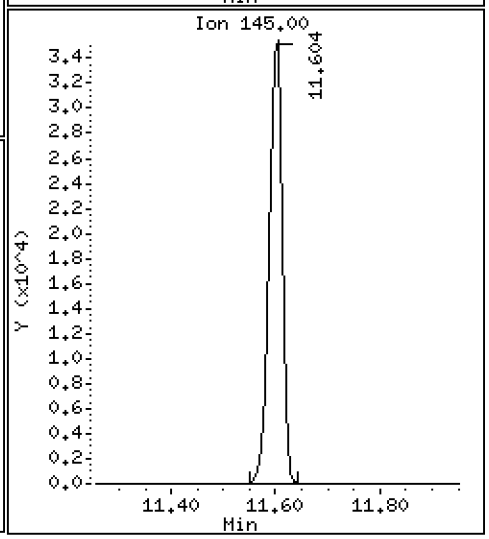












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

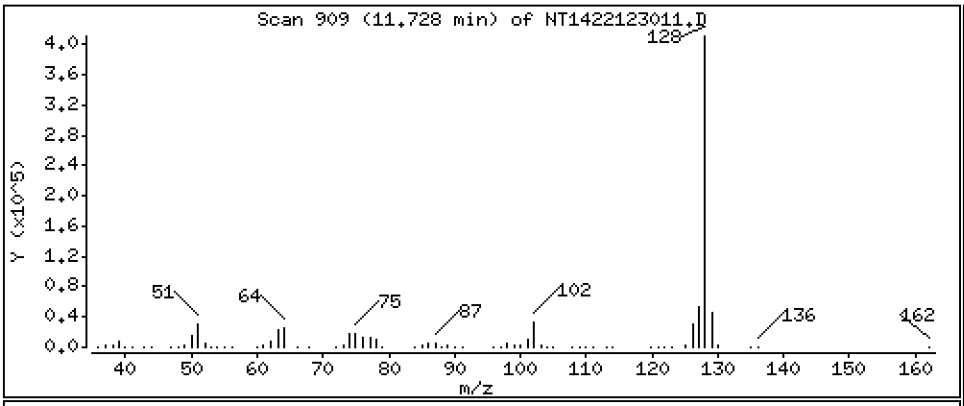
Operator: VTS

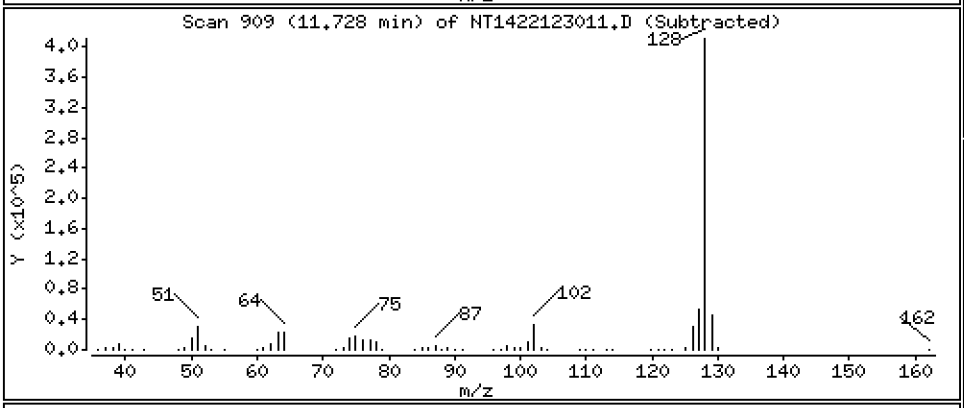
Column phase: ZB-5msi

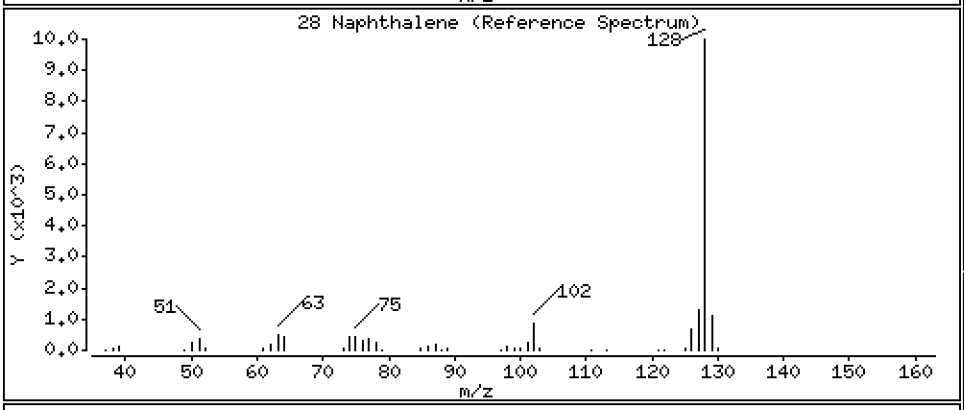
Column diameter: 0.25

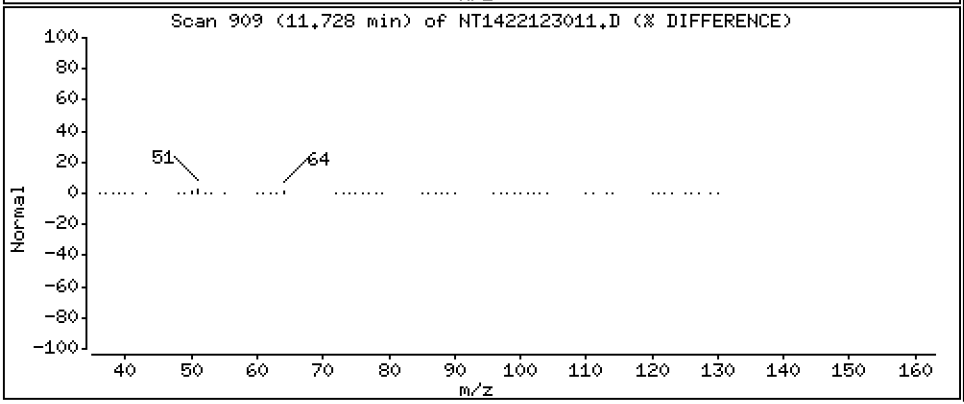
28 Naphthalene

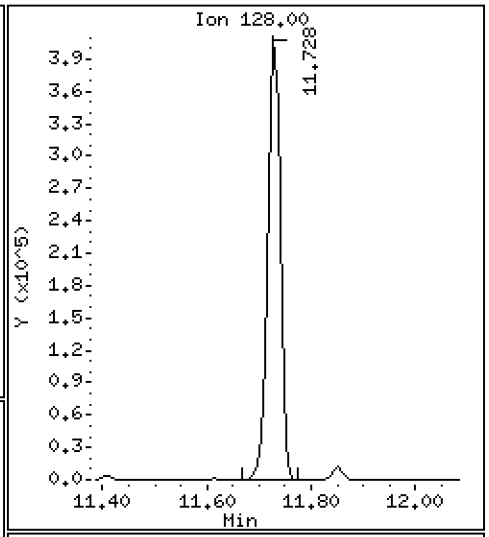
Concentration: 4.812 ug/mL

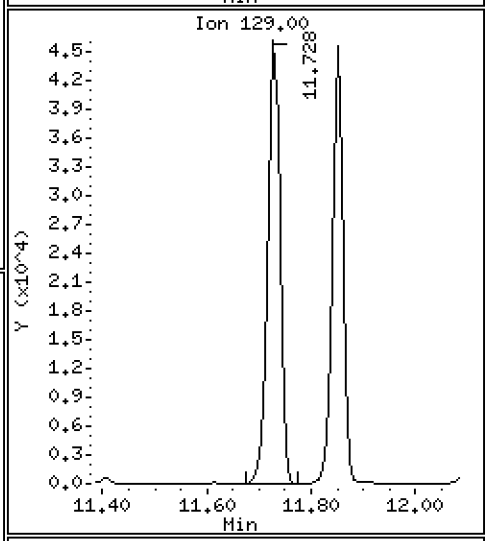


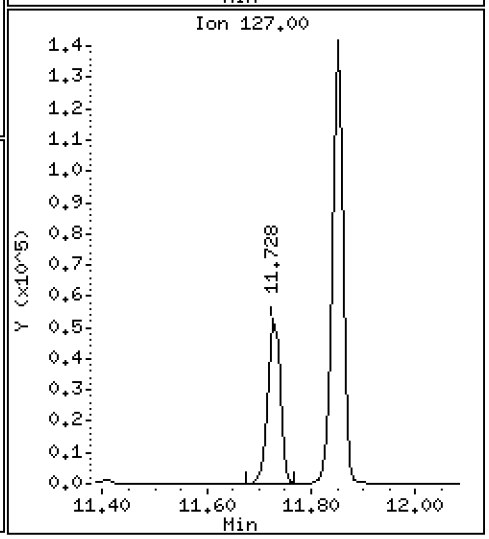












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

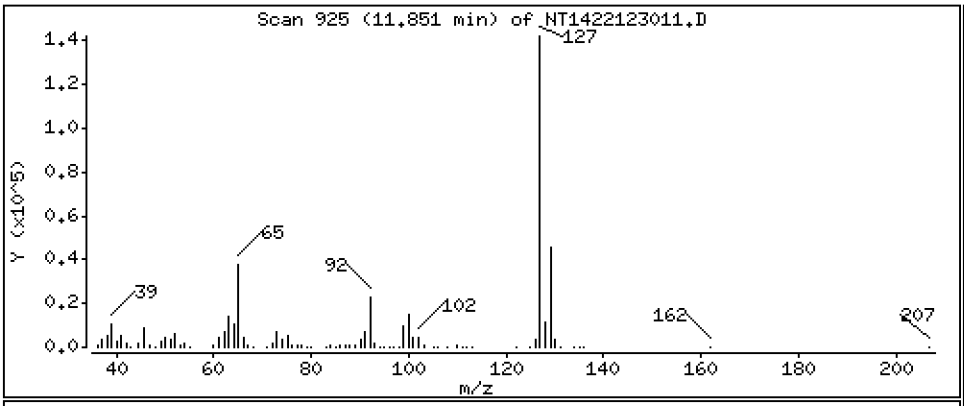
Operator: VTS

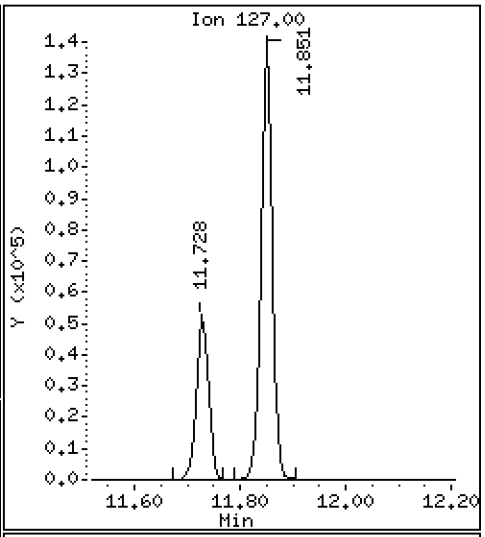
Column phase: ZB-5msi

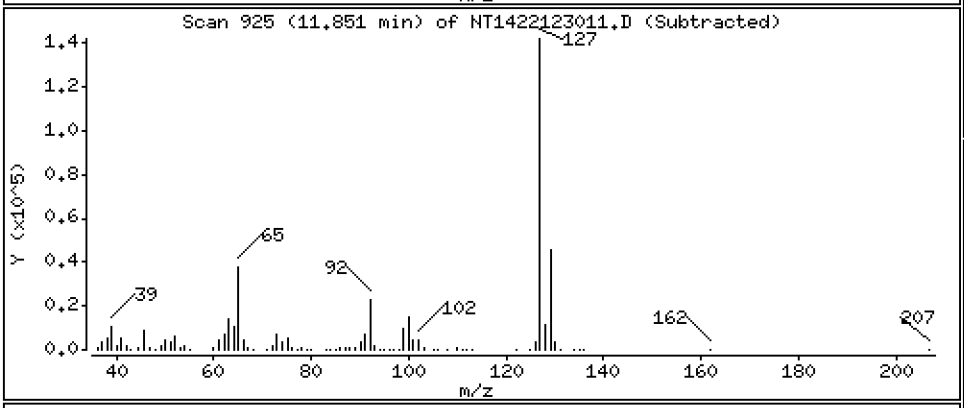
Column diameter: 0.25

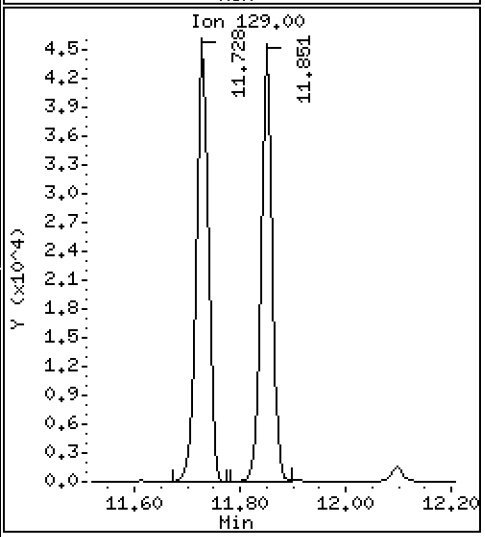
29 4-Chloroaniline

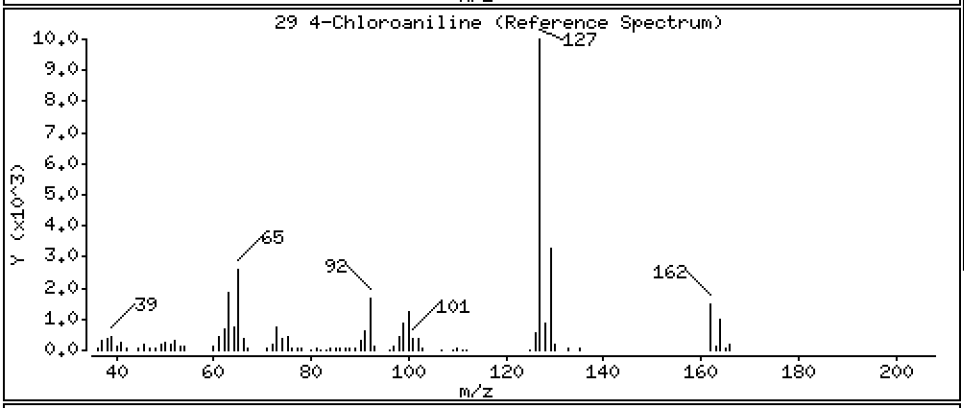
Concentration: 3.849 ug/mL

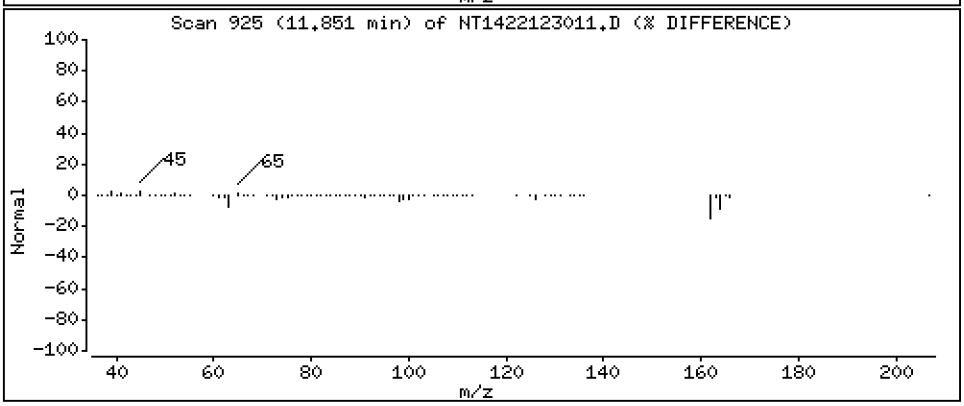












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

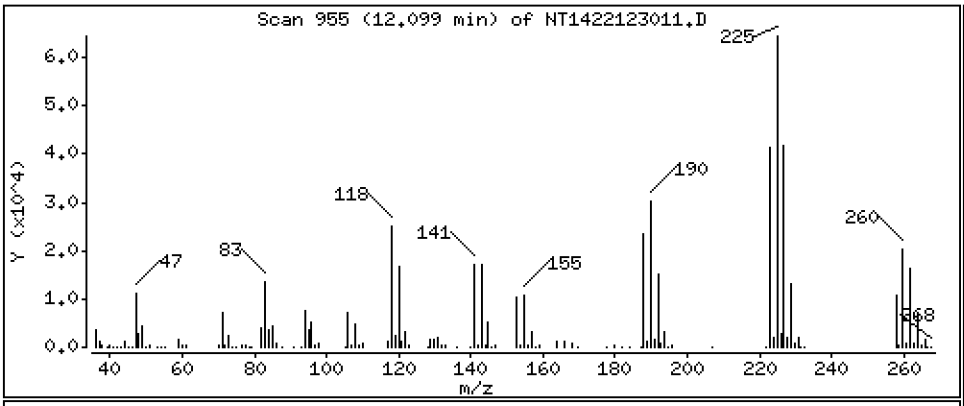
Operator: VTS

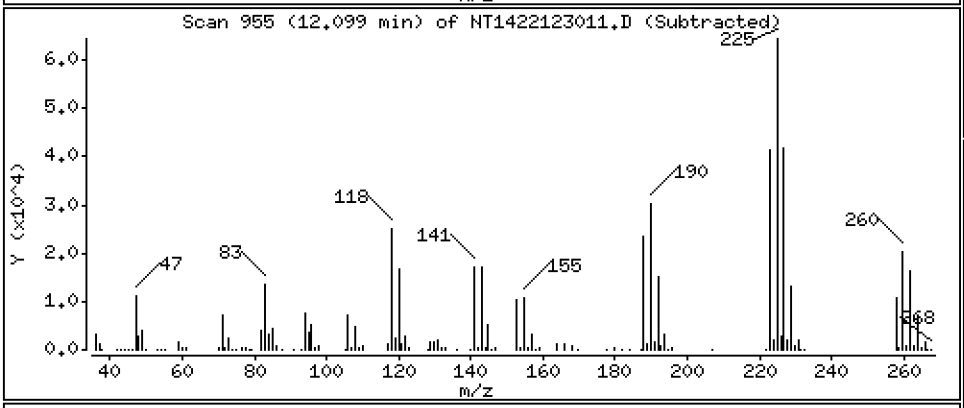
Column phase: ZB-5msi

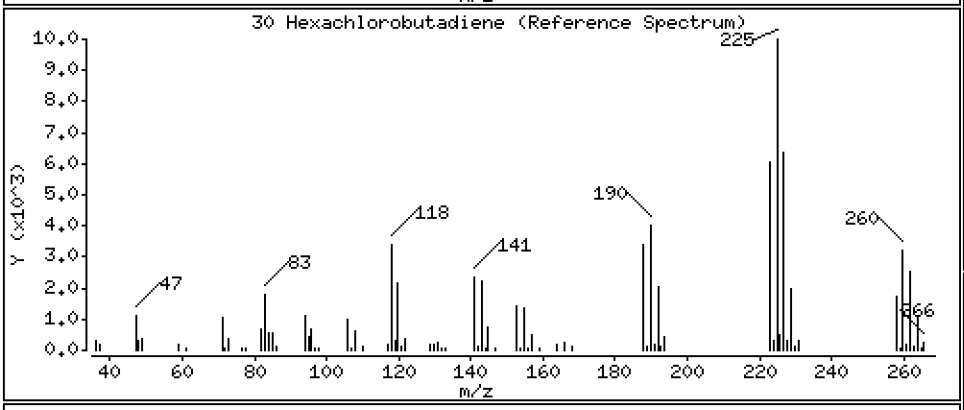
Column diameter: 0.25

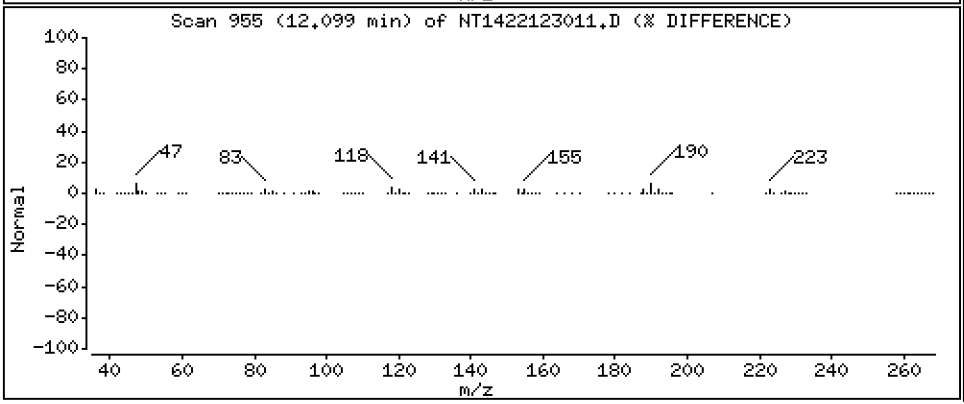
30 Hexachlorobutadiene

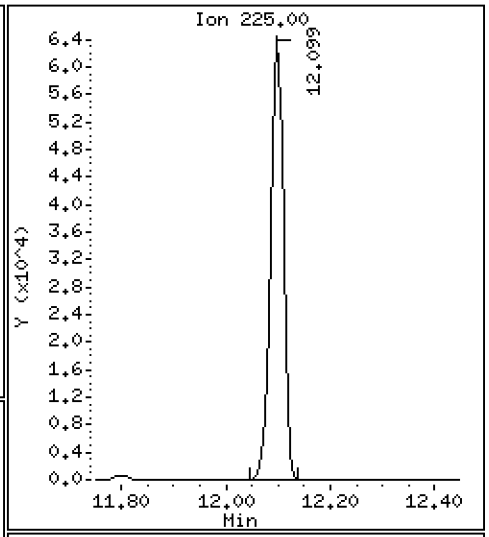
Concentration: 4.823 ug/mL

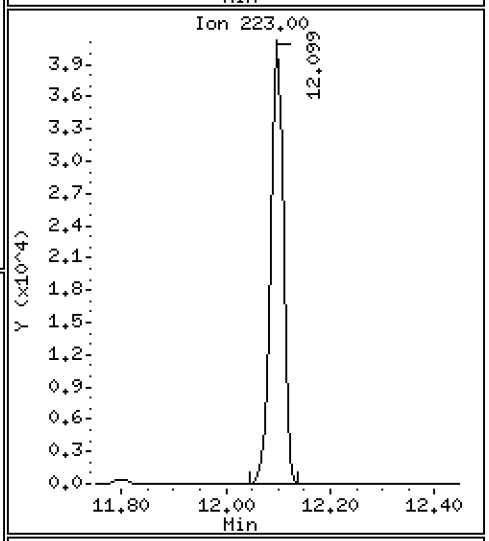


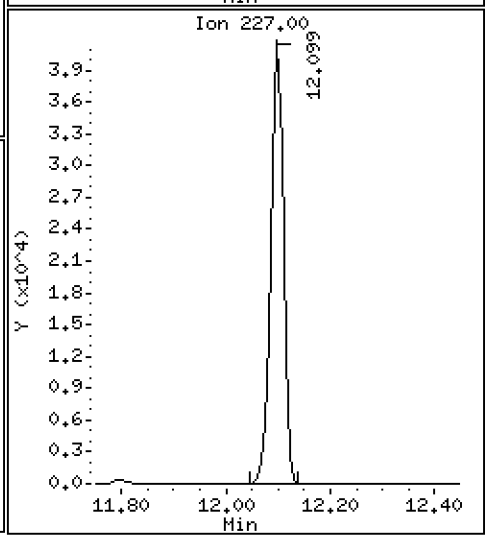












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

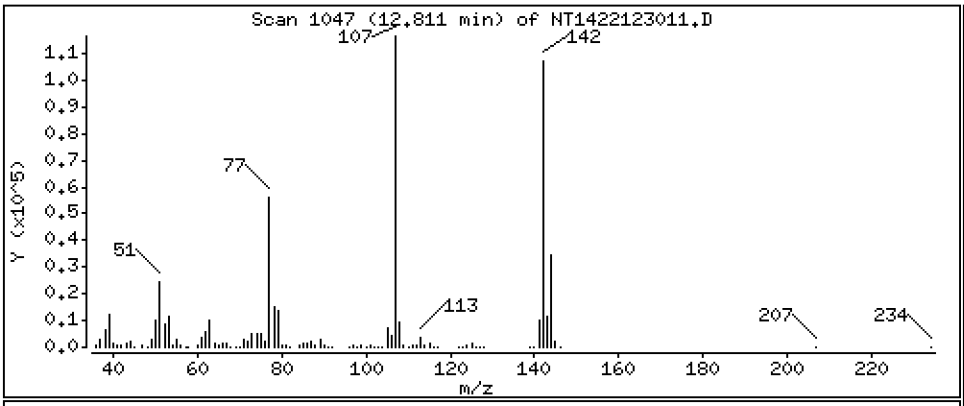
Operator: VTS

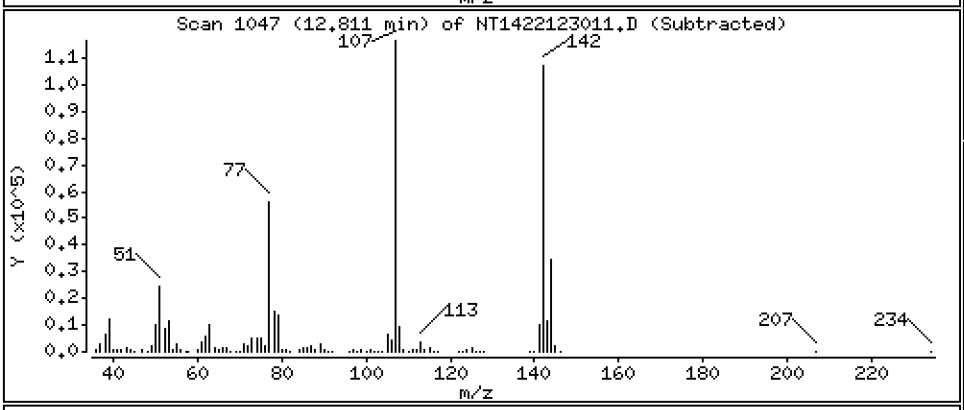
Column phase: ZB-5msi

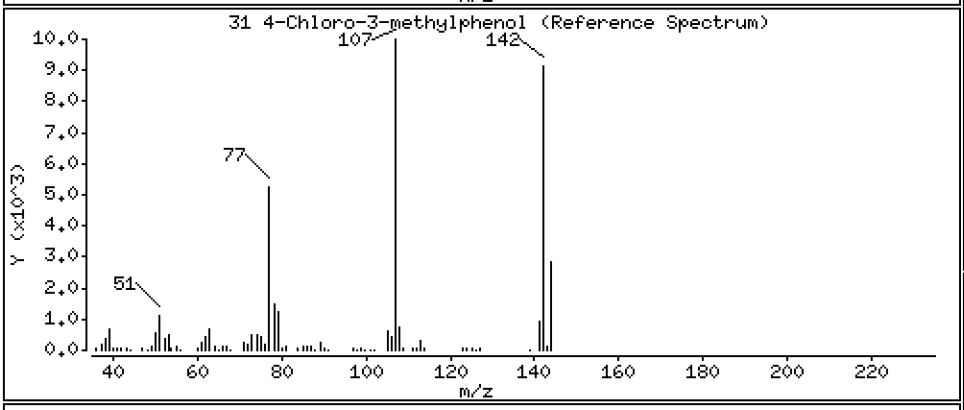
Column diameter: 0.25

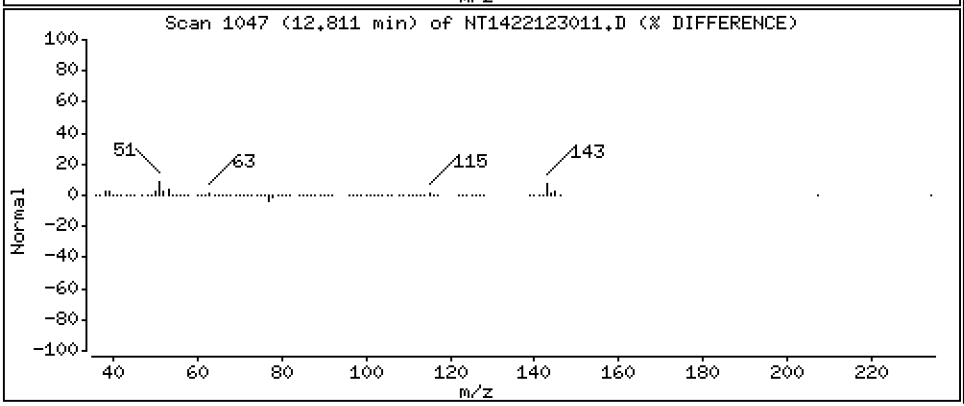
31 4-Chloro-3-methylphenol

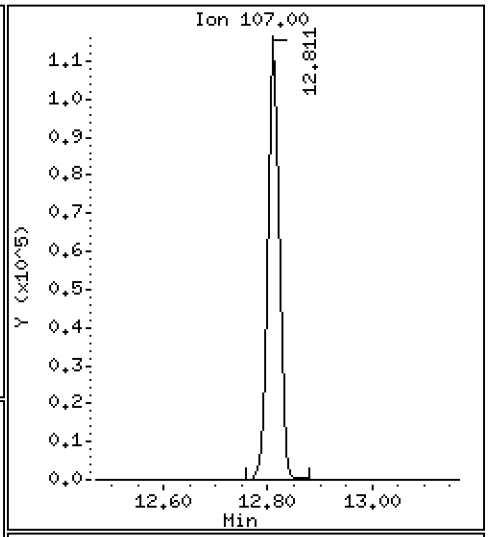
Concentration: 4.522 ug/mL

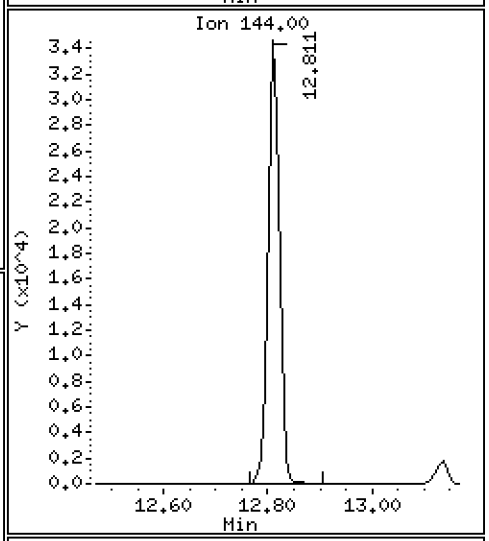


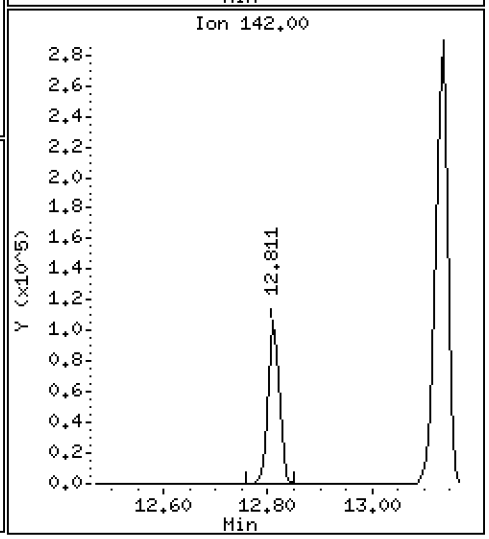












Date : 30-DEC-2022 13:31

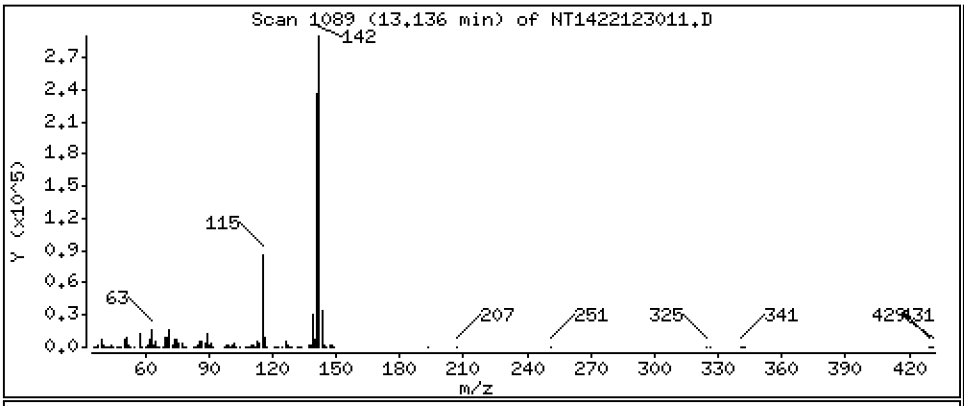
Client ID: Instrument: nt14.i

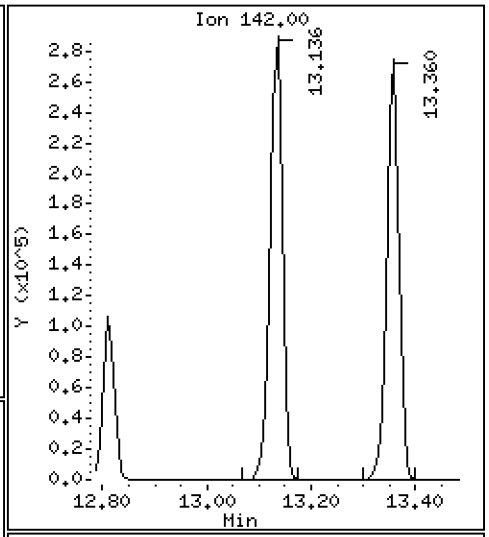
Sample Info: SKL0355-SCV1

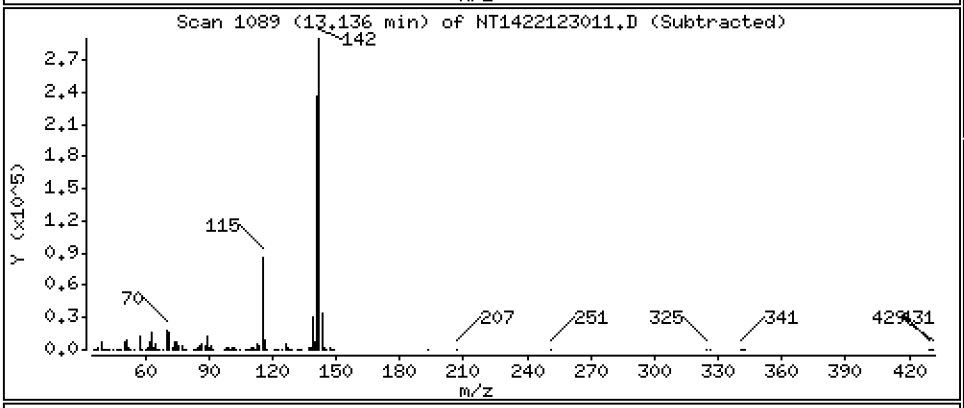
Operator: VTS

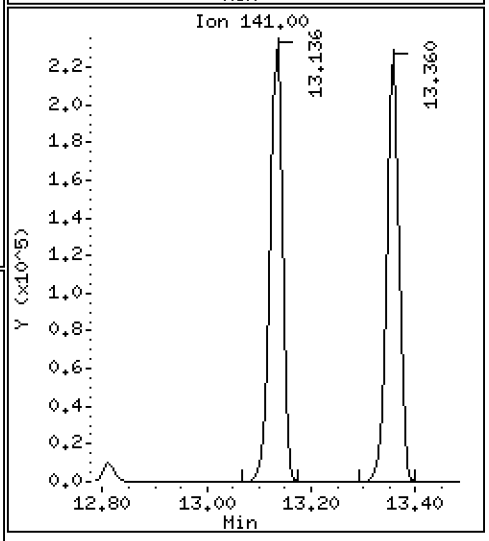
Column phase: ZB-5msi Column diameter: 0.25

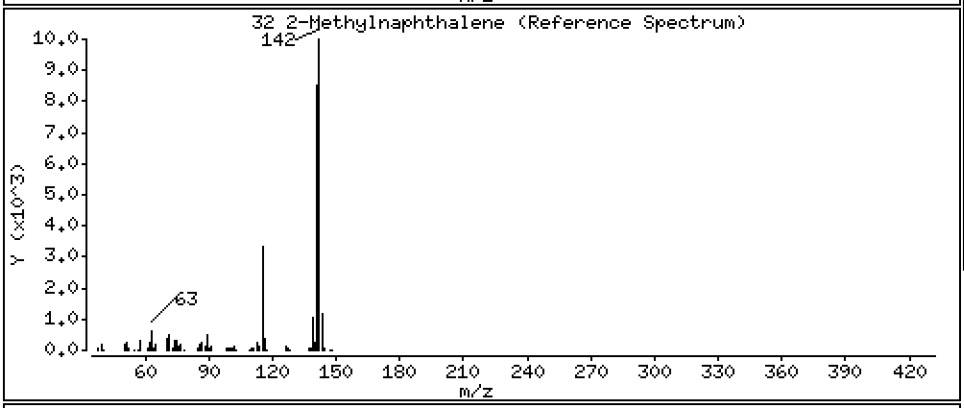
32 2-Methylnaphthalene Concentration: 4.616 ug/mL

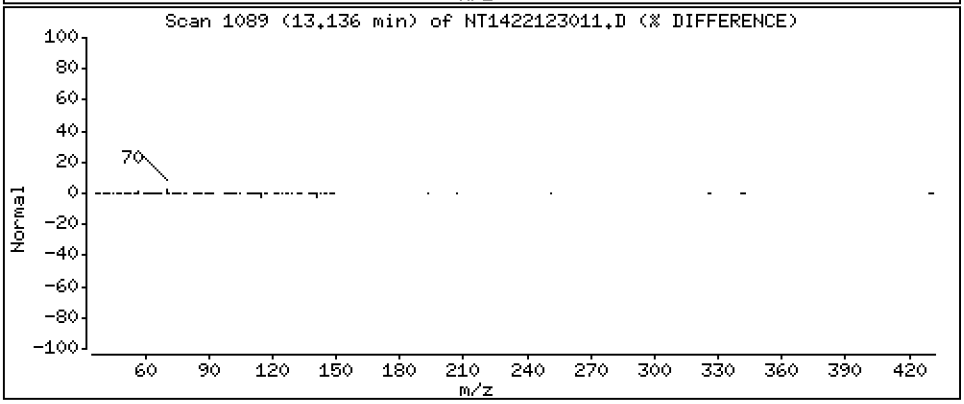












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

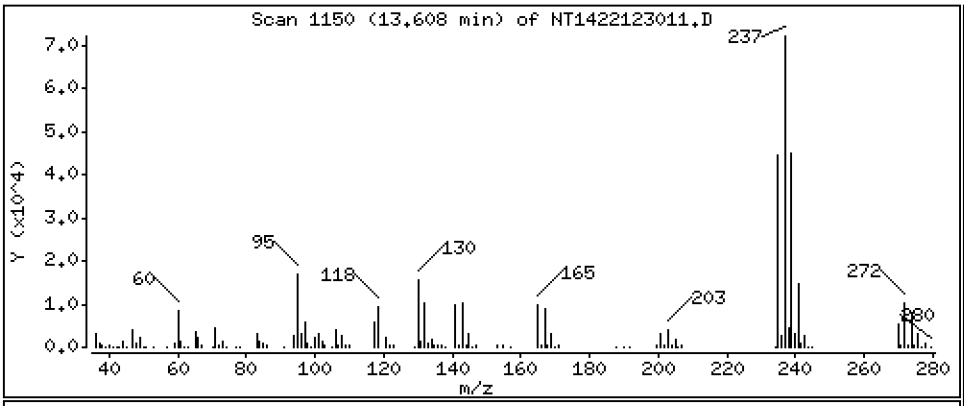
Operator: VTS

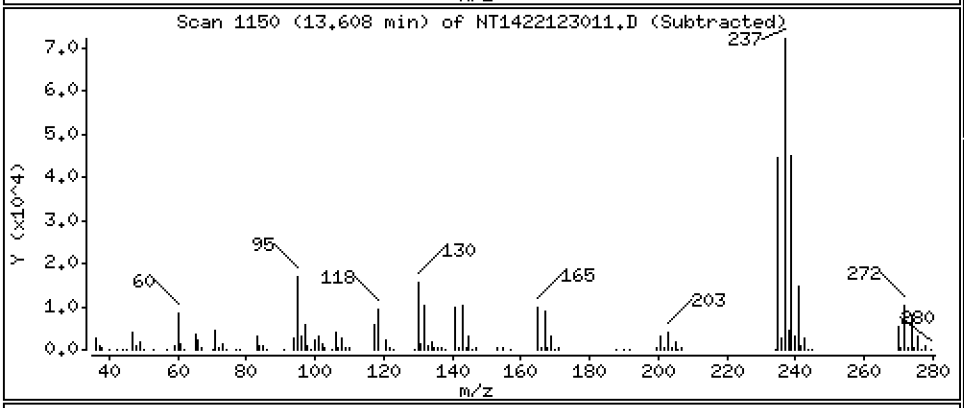
Column phase: ZB-5msi

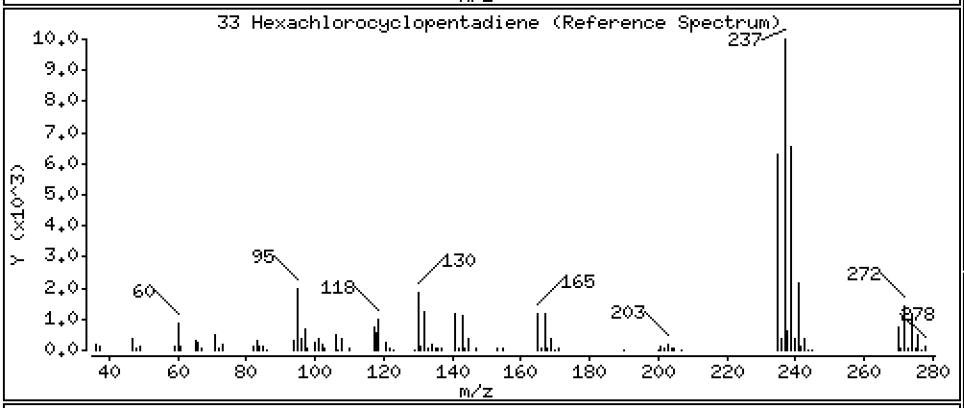
Column diameter: 0.25

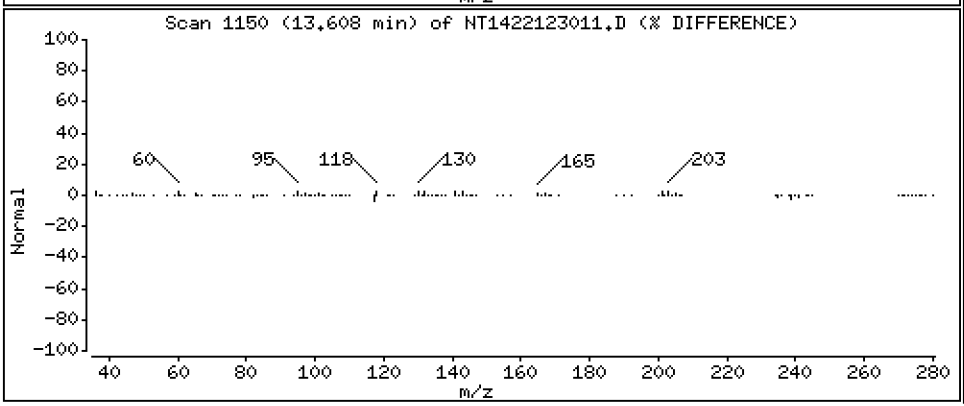
33 Hexachlorocyclopentadiene

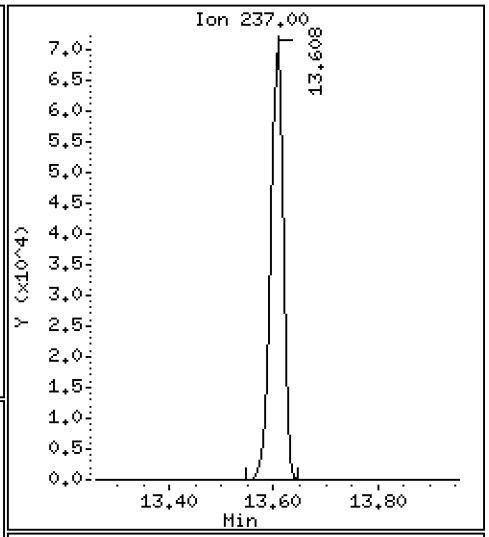
Concentration: 5.081 ug/mL

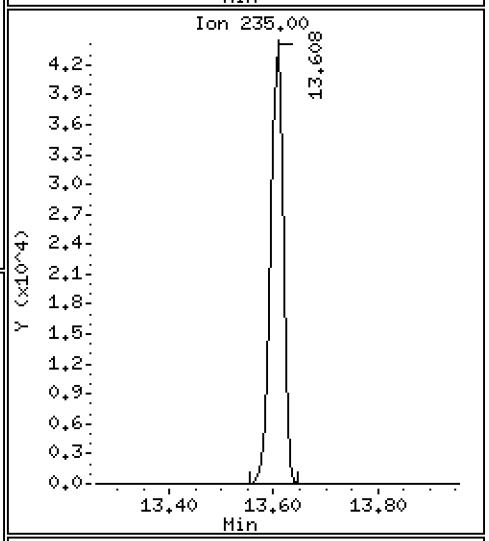


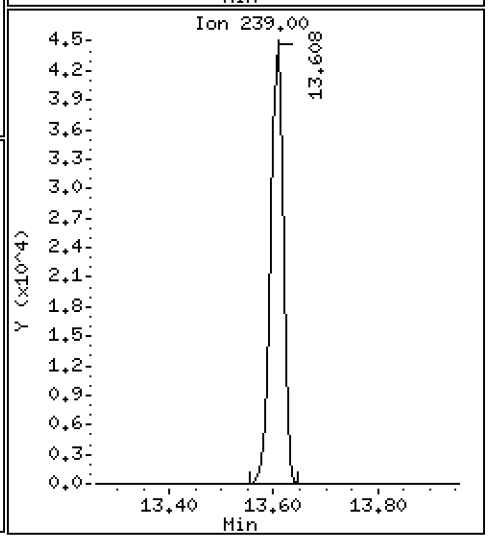












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

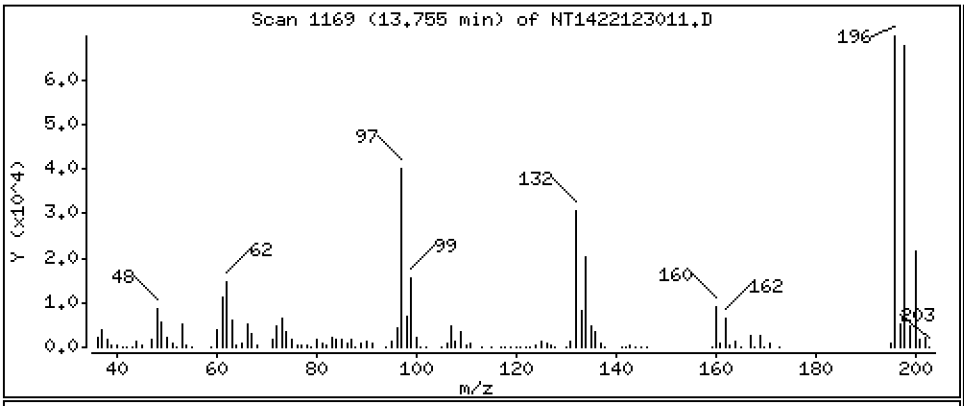
Operator: VTS

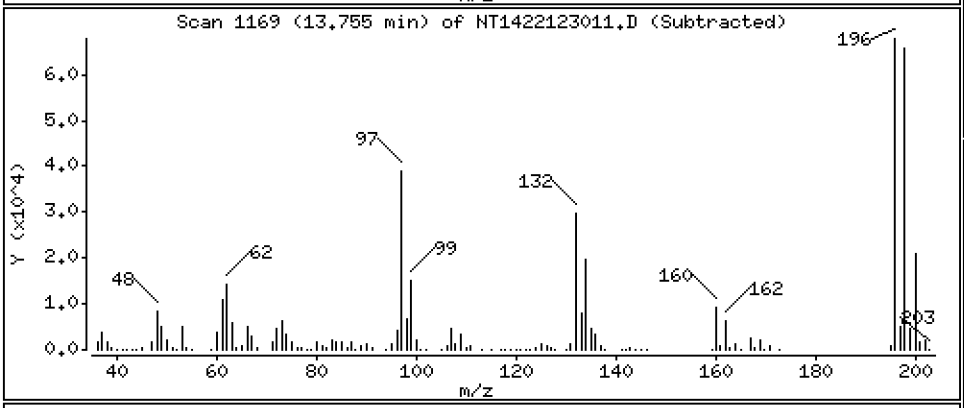
Column phase: ZB-5msi

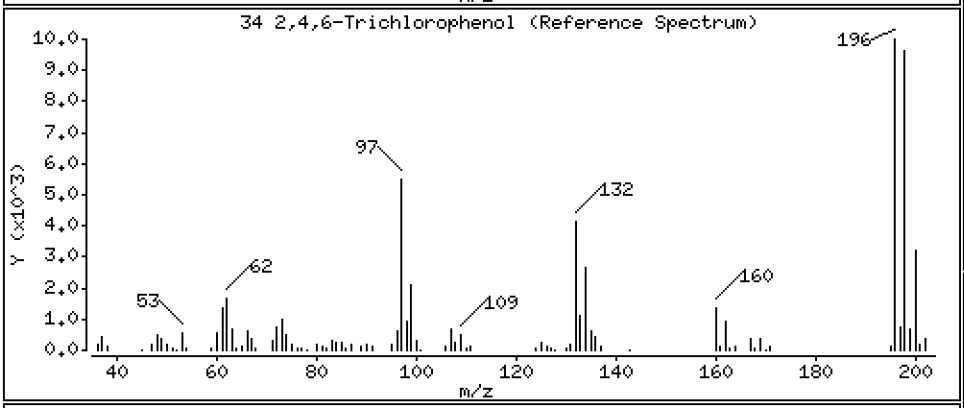
Column diameter: 0.25

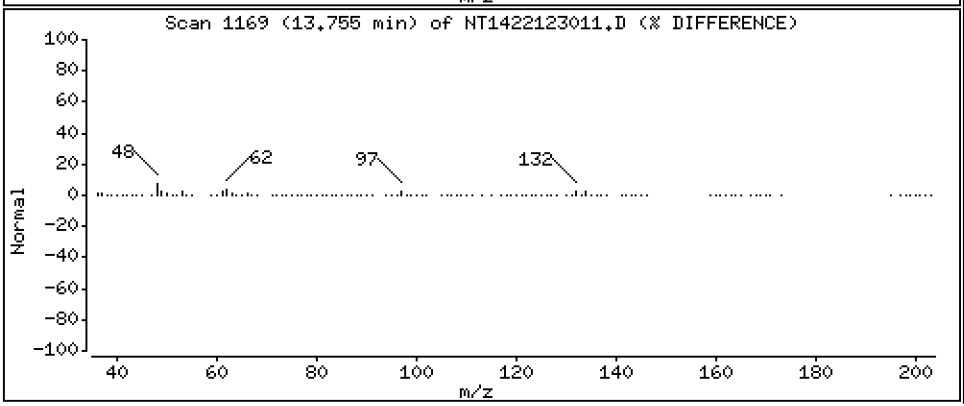
34 2,4,6-Trichlorophenol

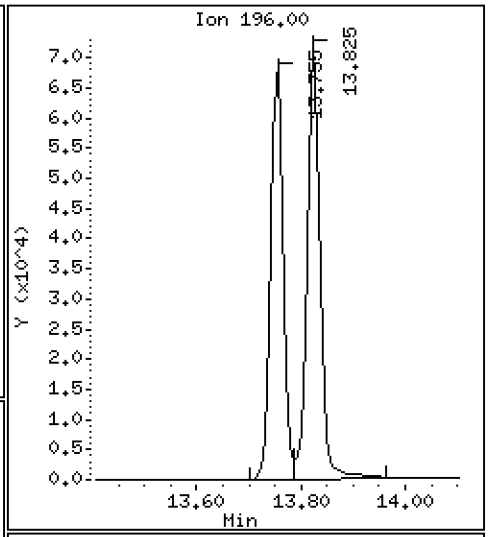
Concentration: 4.407 ug/mL

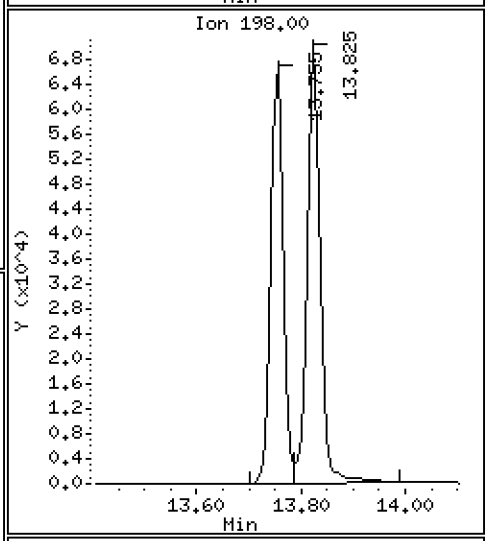


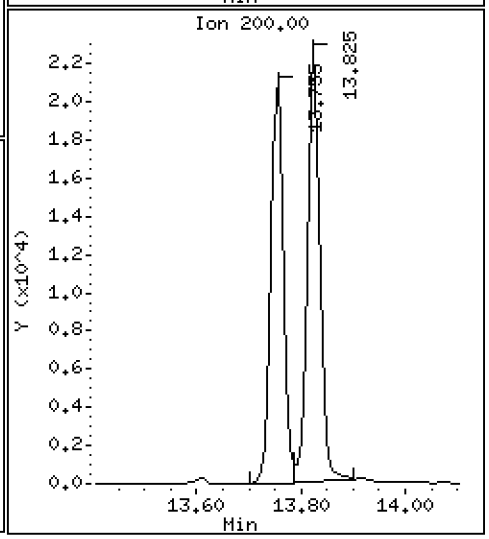












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

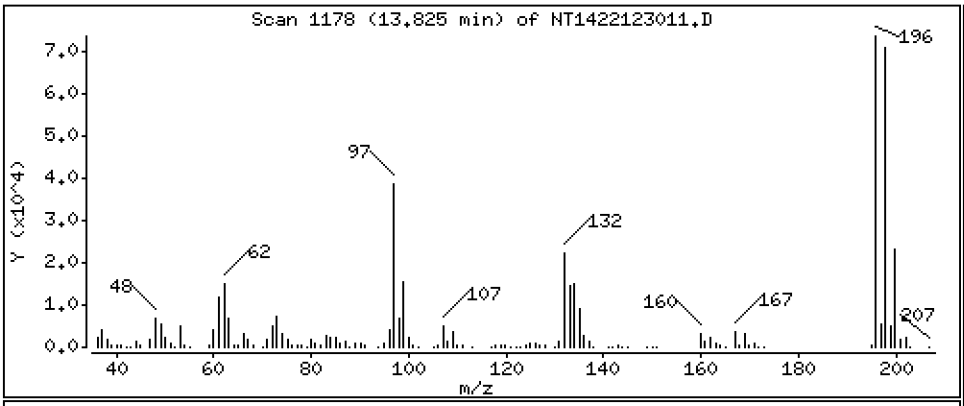
Operator: VTS

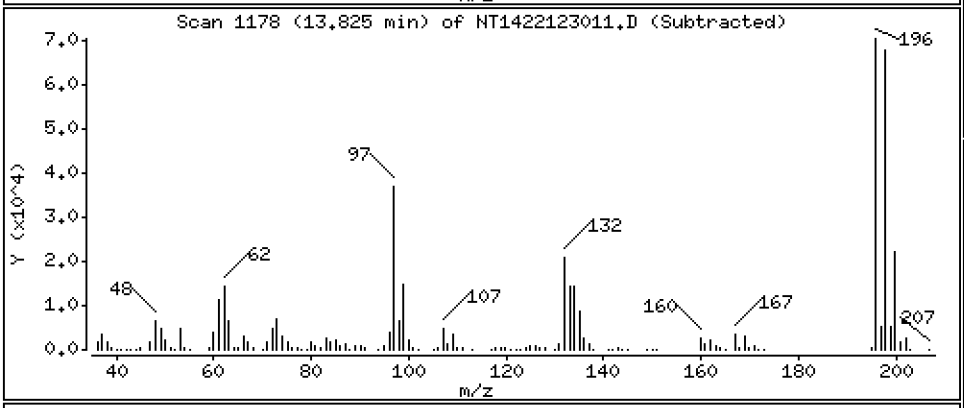
Column phase: ZB-5msi

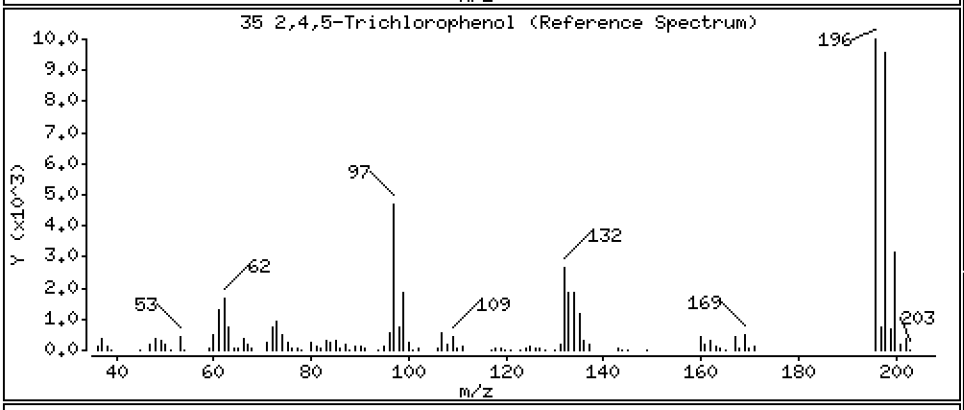
Column diameter: 0.25

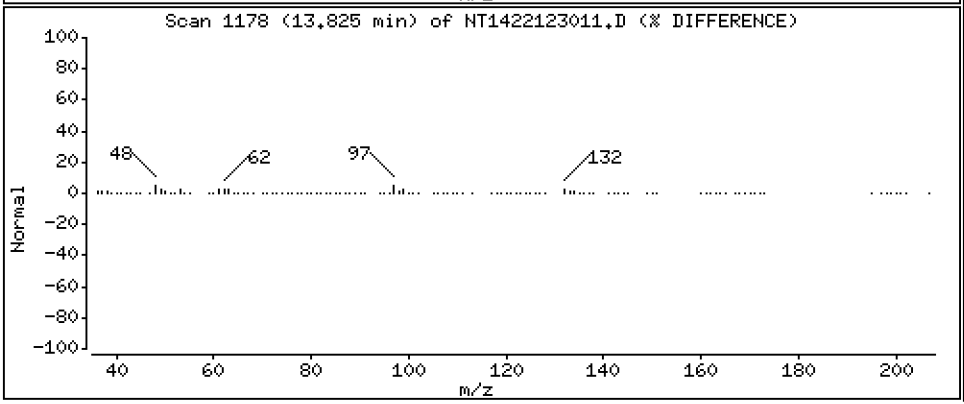
35 2,4,5-Trichlorophenol

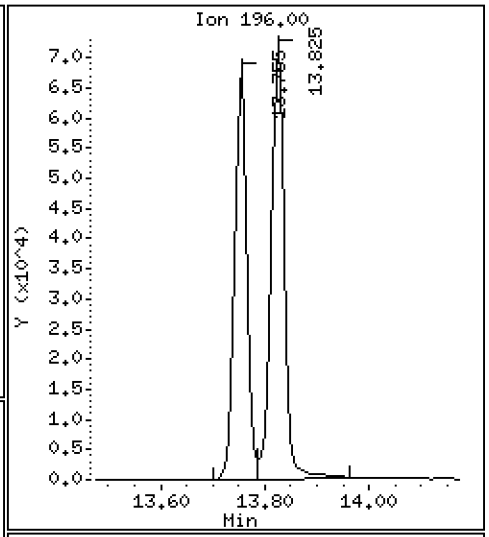
Concentration: 4.278 ug/mL

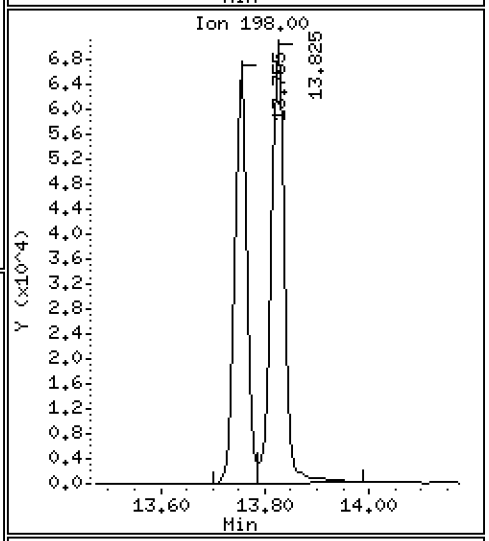


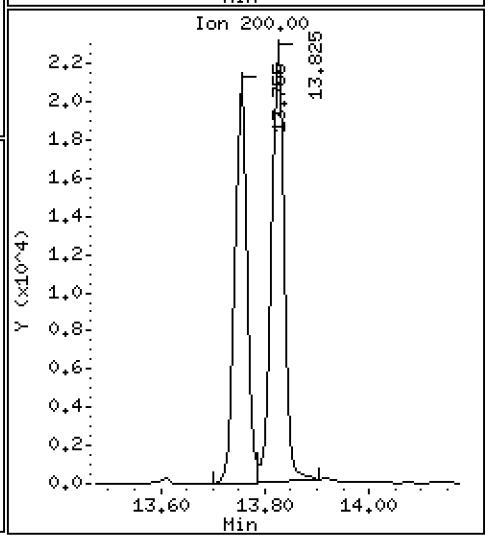












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

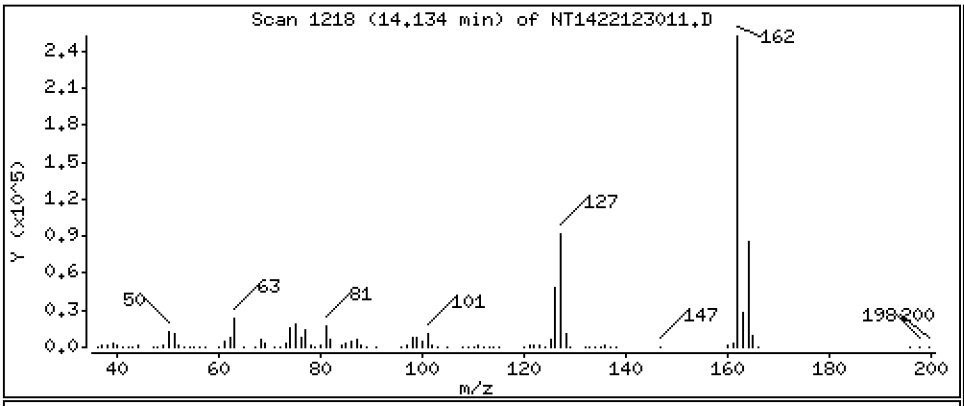
Operator: VTS

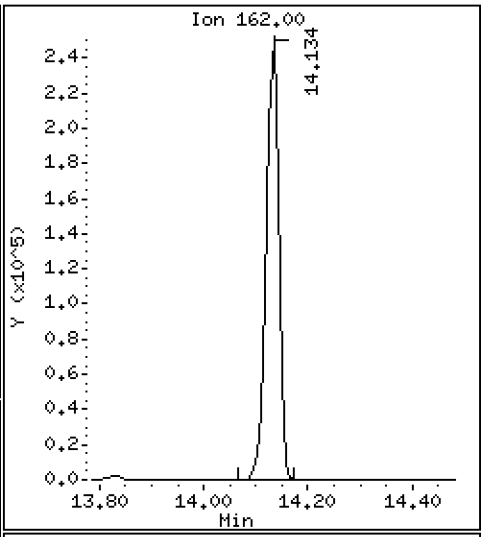
Column phase: ZB-5msi

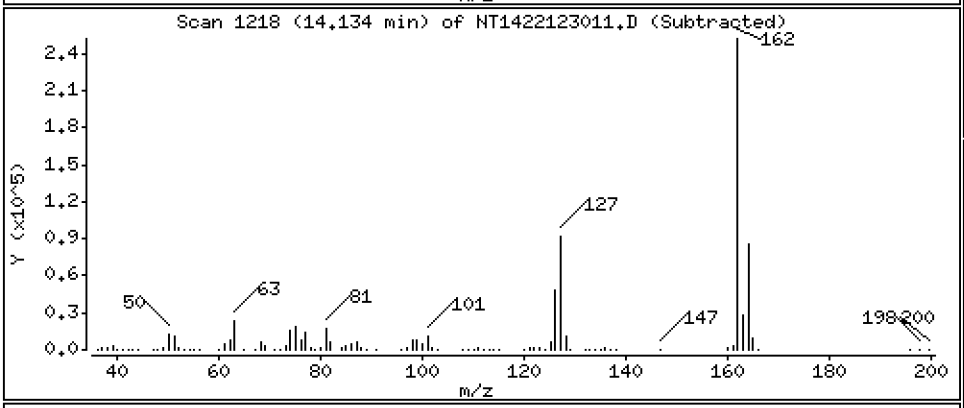
Column diameter: 0.25

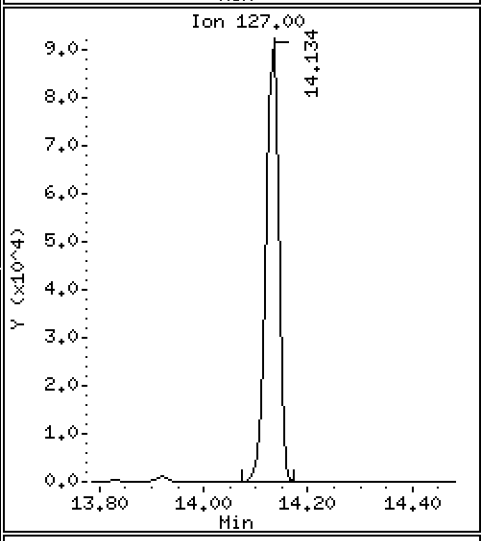
37 2-Chloronaphthalene

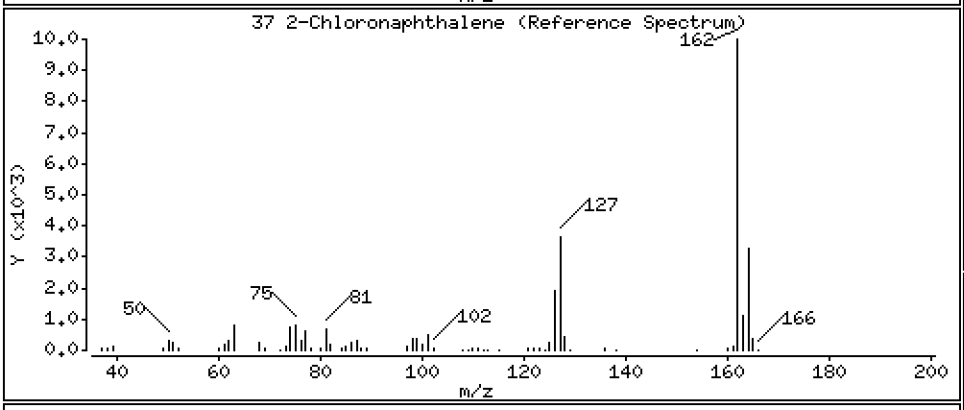
Concentration: 4.754 ug/mL

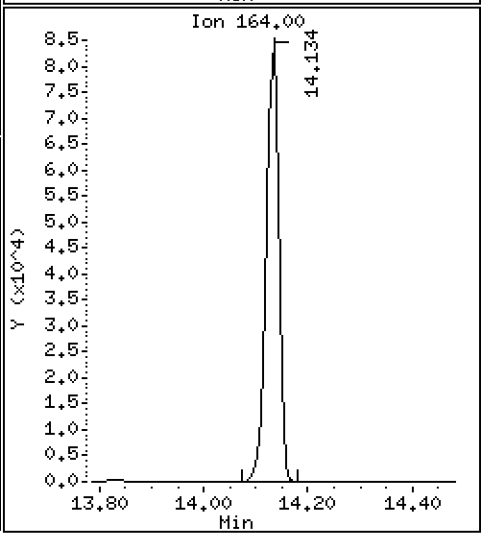


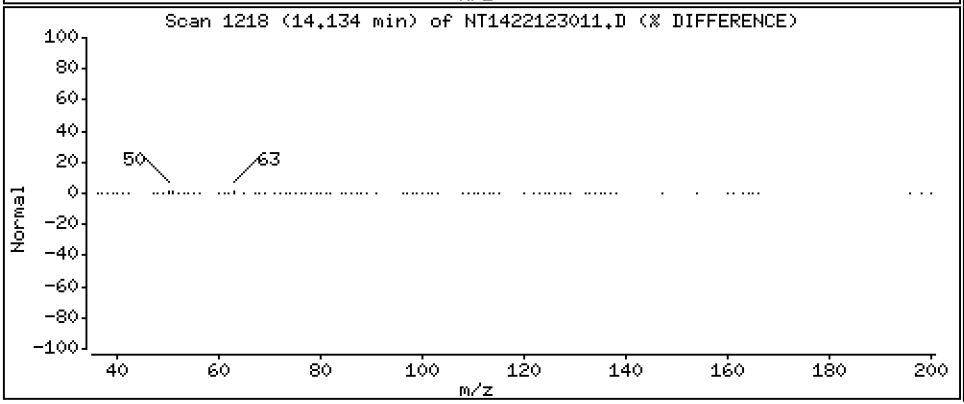












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

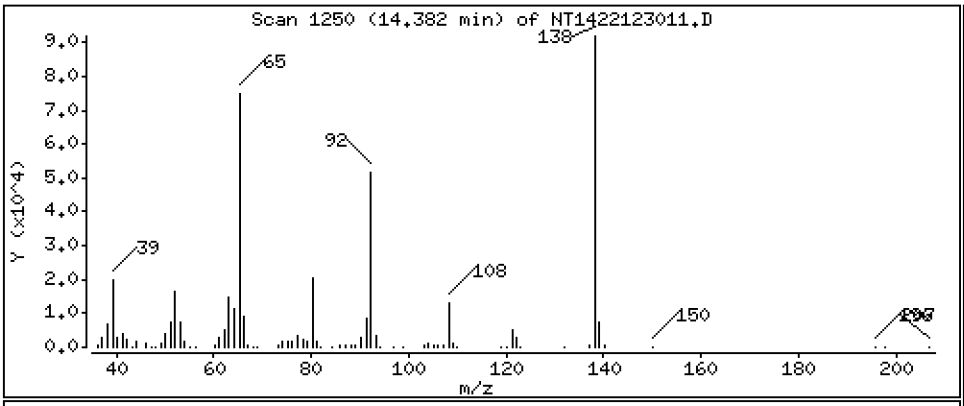
Operator: VTS

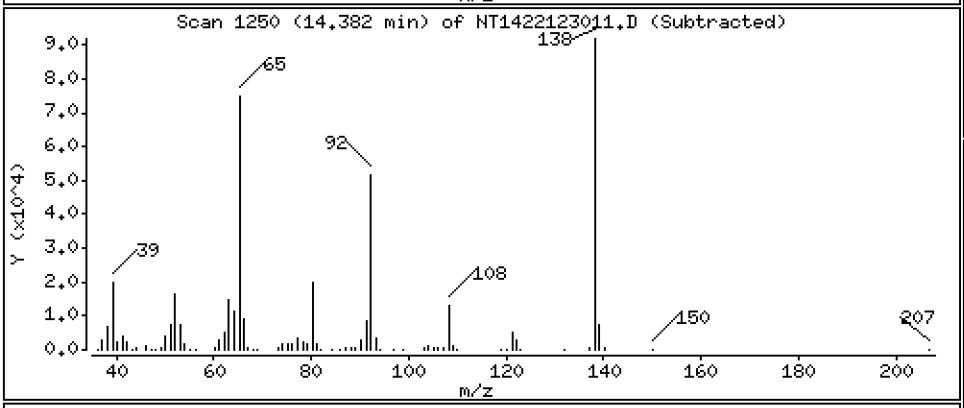
Column phase: ZB-5msi

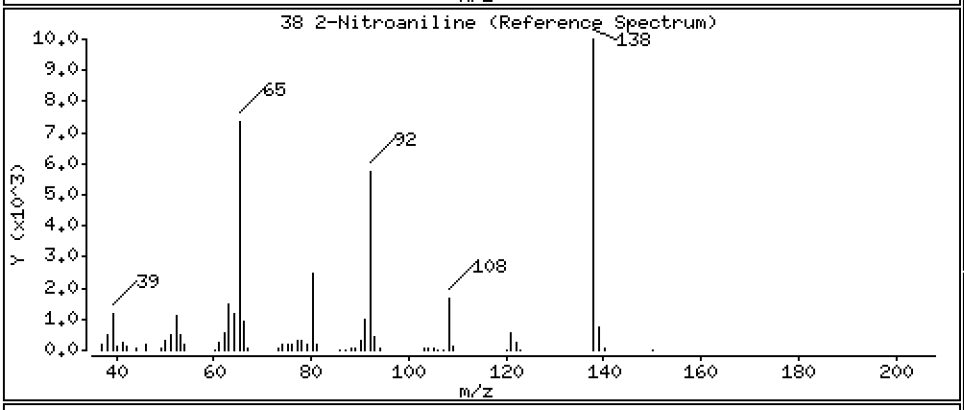
Column diameter: 0.25

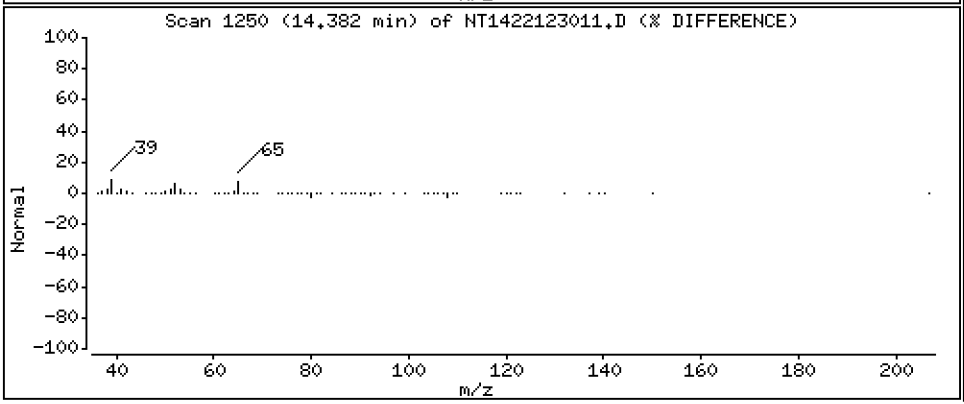
38 2-Nitroaniline

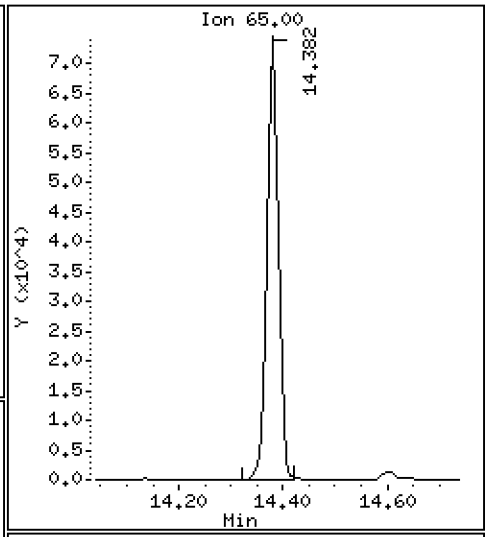
Concentration: 5.043 ug/mL

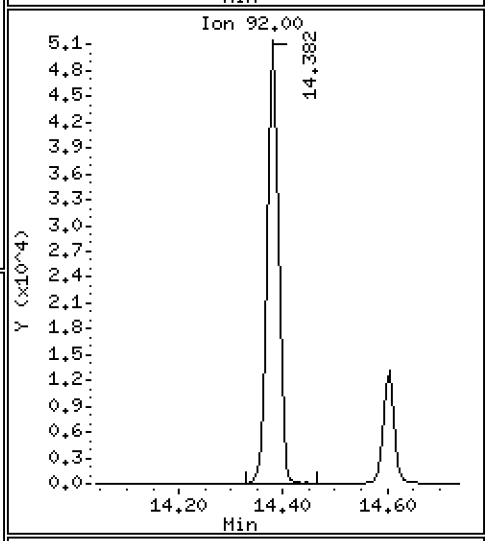


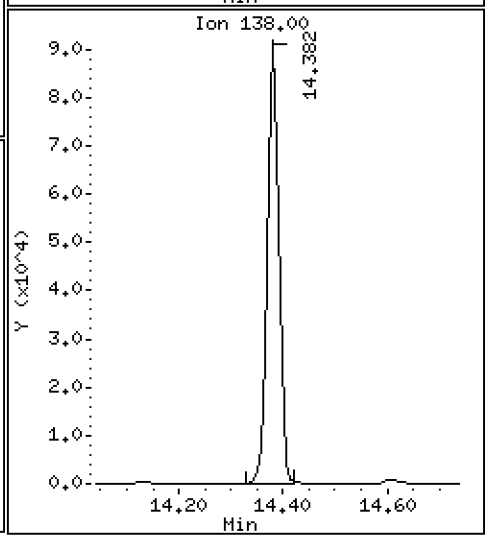












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

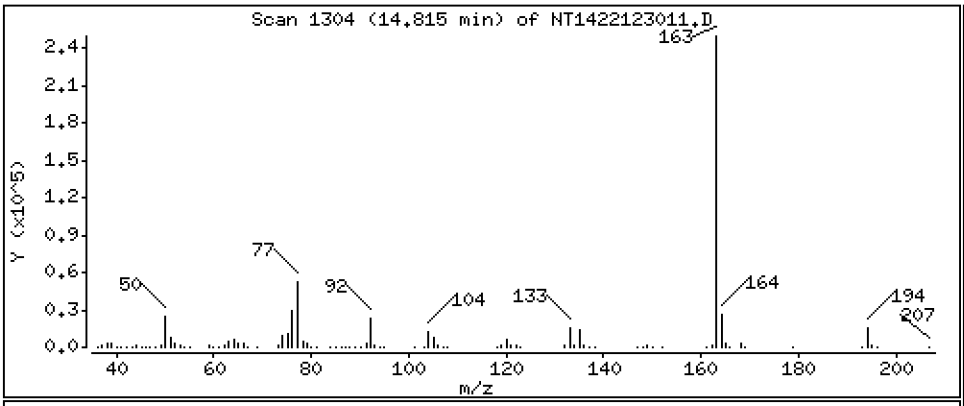
Operator: VTS

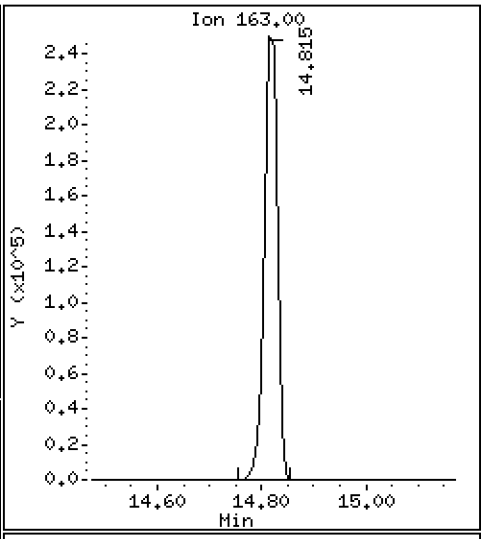
Column phase: ZB-5msi

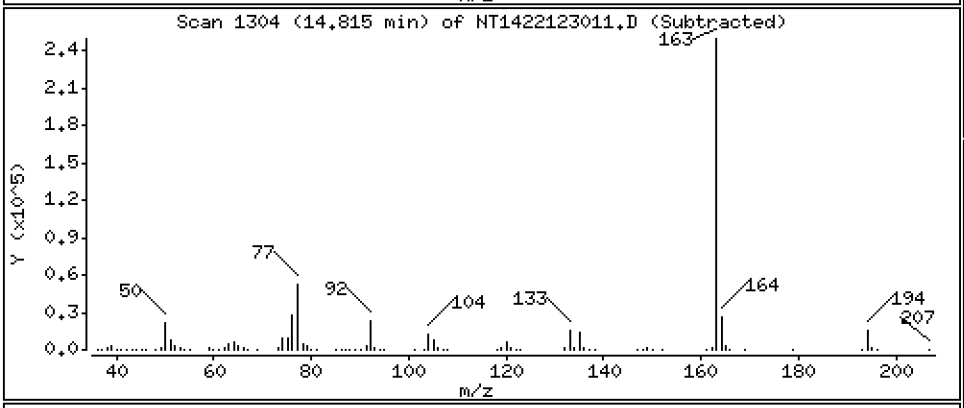
Column diameter: 0.25

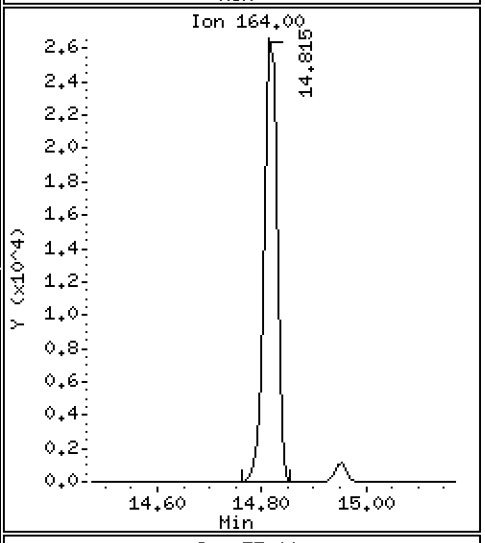
39 Dimethylphthalate

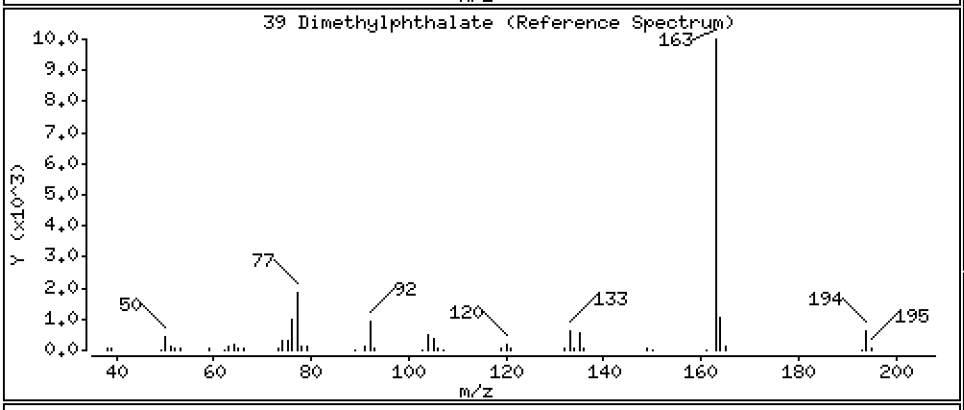
Concentration: 5.023 ug/mL

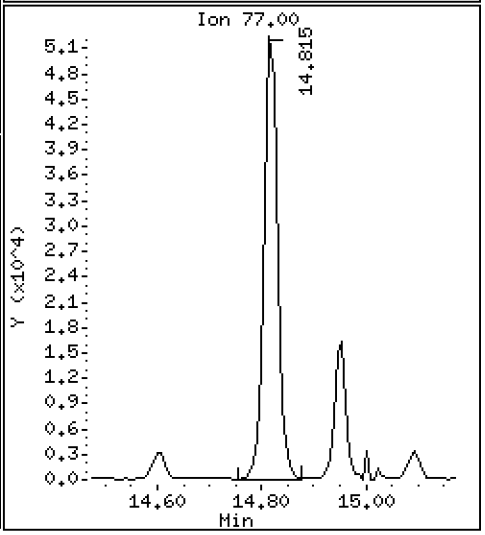


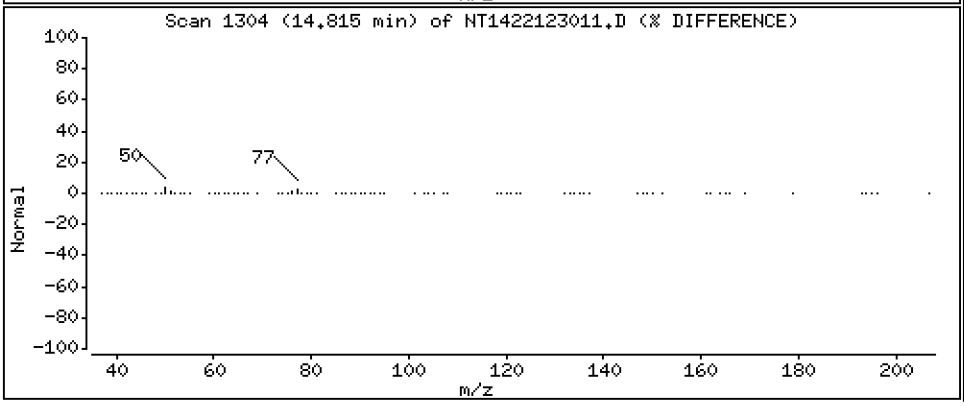












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

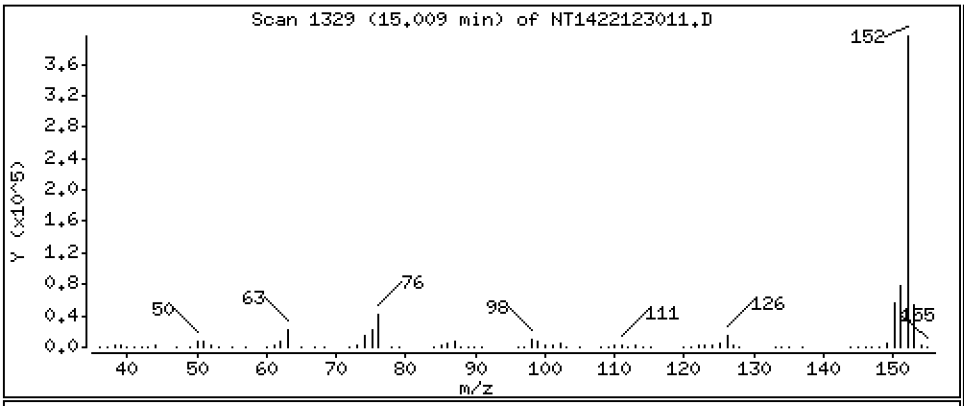
Operator: VTS

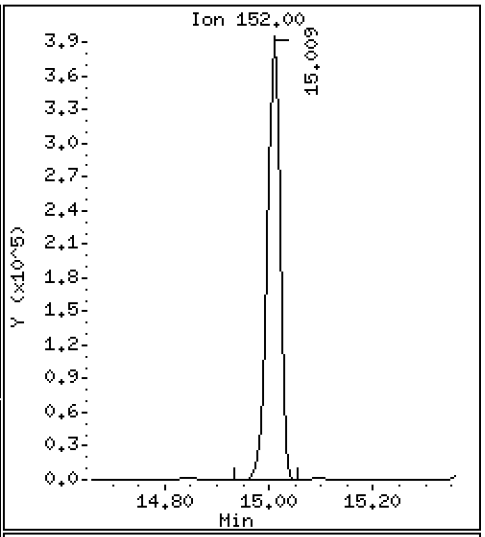
Column phase: ZB-5msi

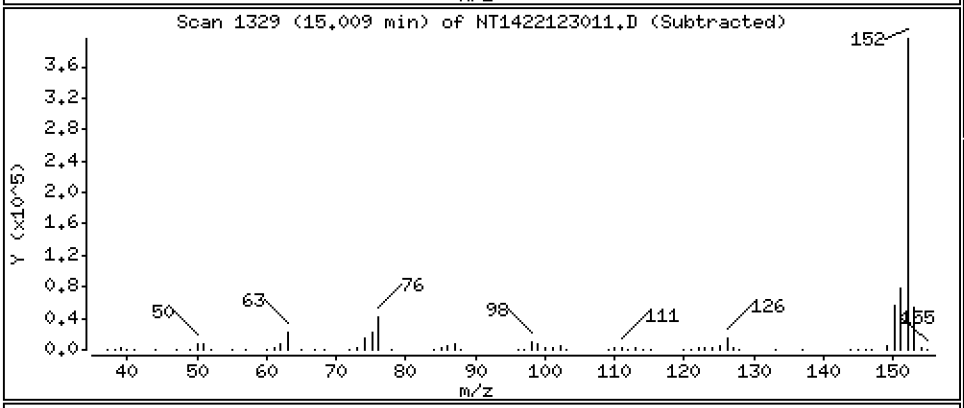
Column diameter: 0.25

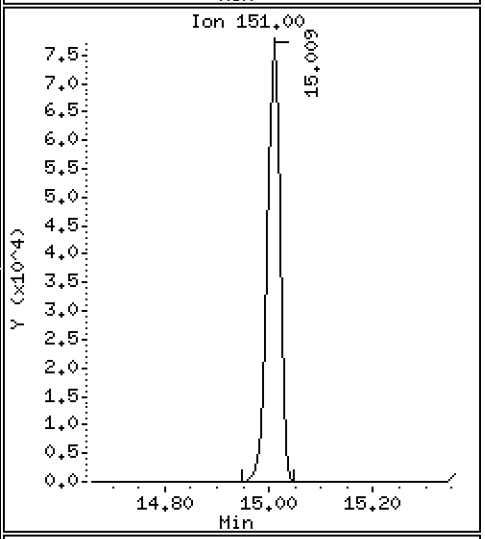
40 Acenaphthylene

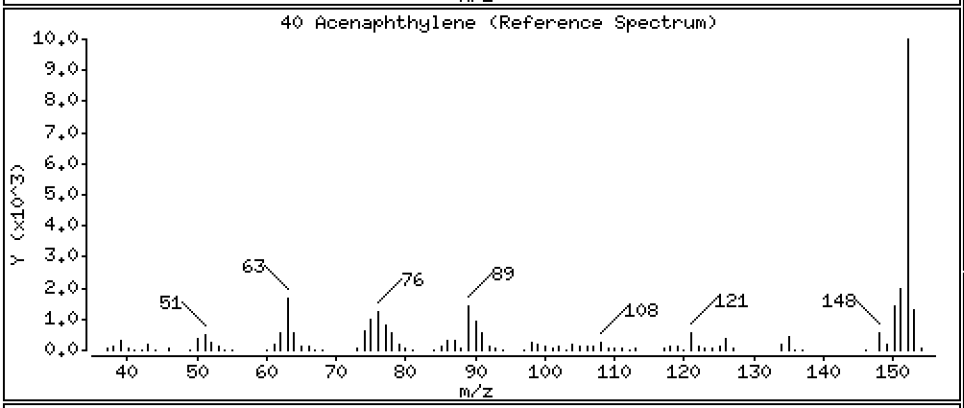
Concentration: 5.000 ug/mL

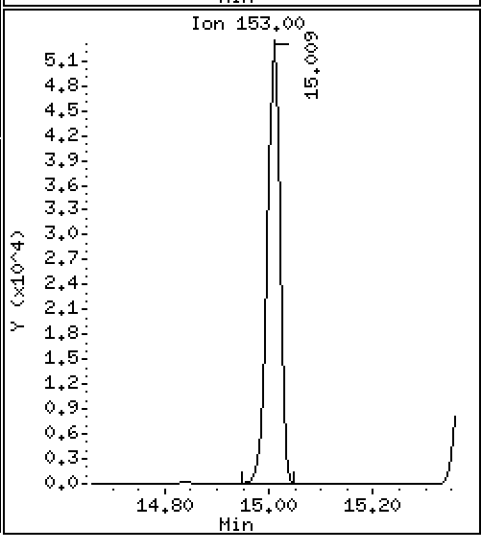


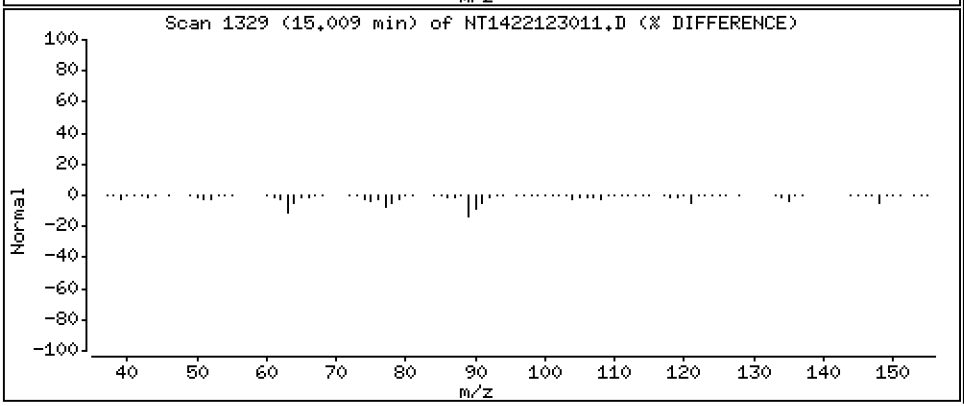












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

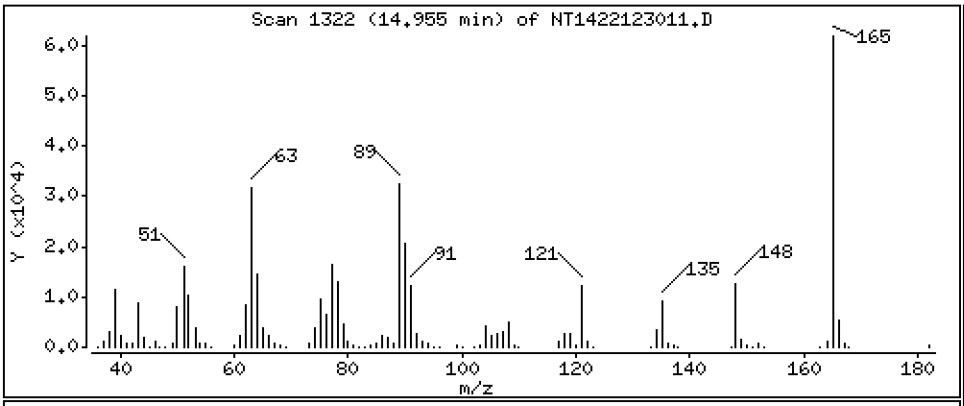
Operator: VTS

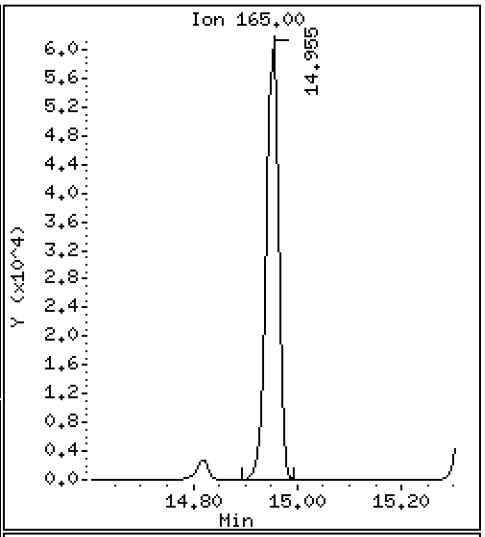
Column phase: ZB-5msi

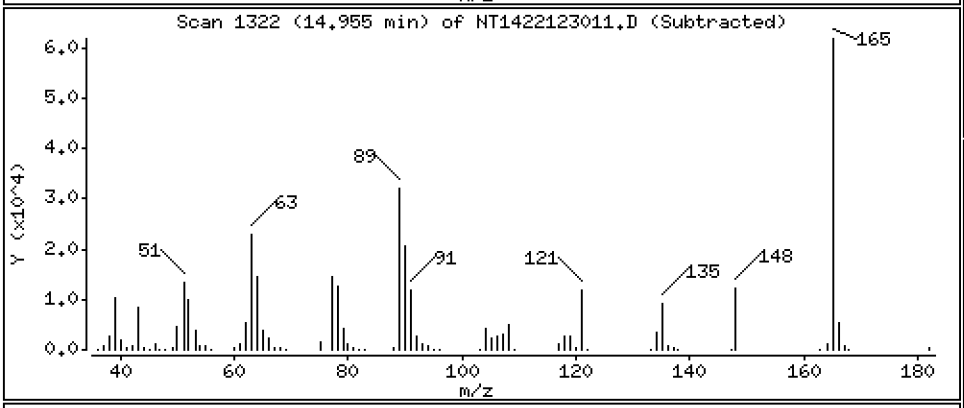
Column diameter: 0.25

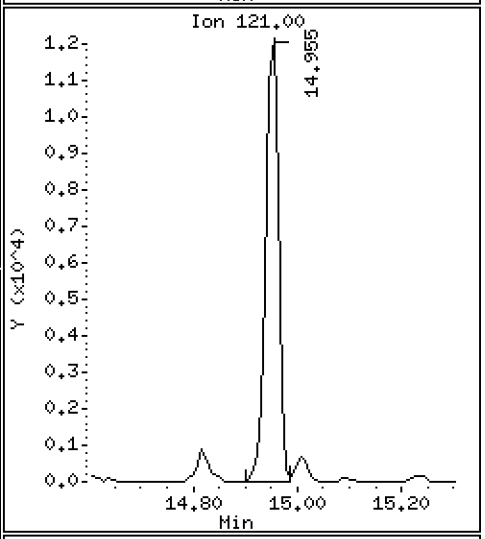
41 2,6-Dinitrotoluene

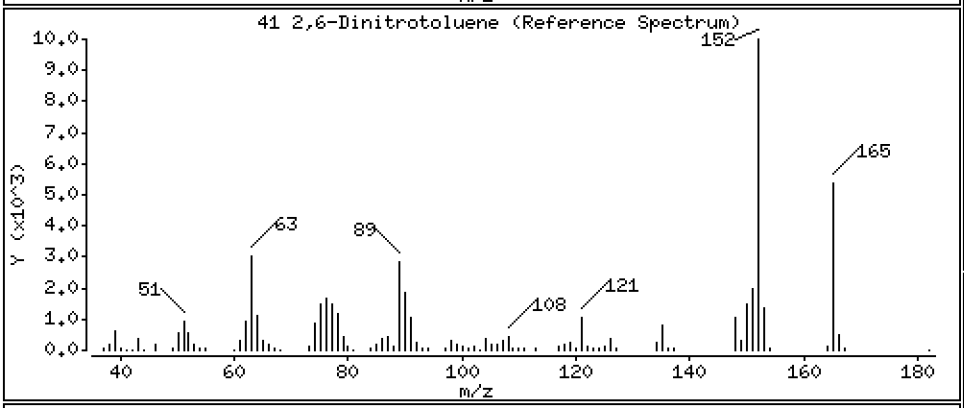
Concentration: 5.115 ug/mL

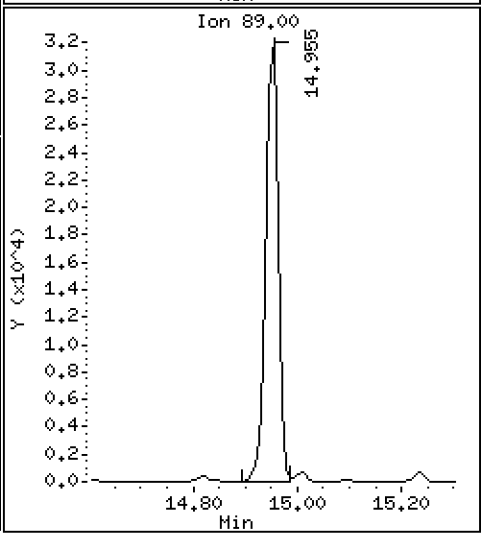


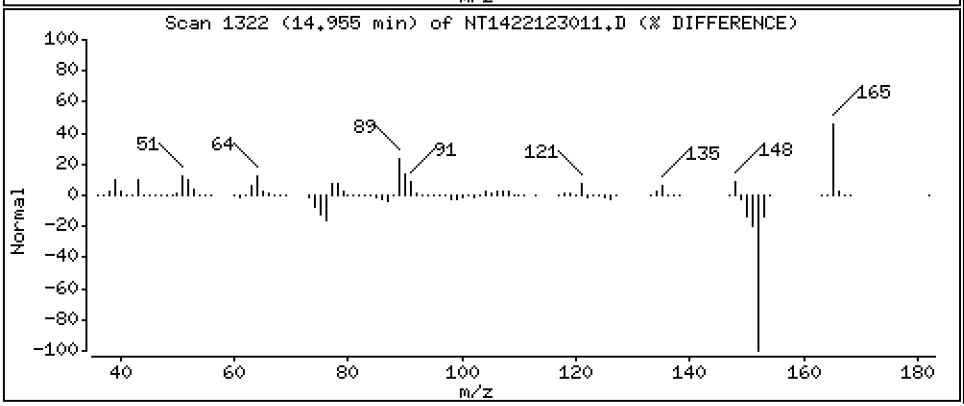












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

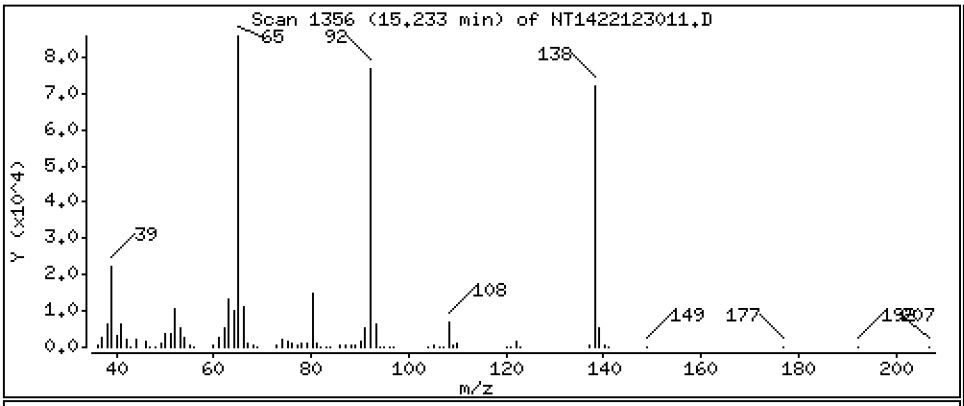
Operator: VTS

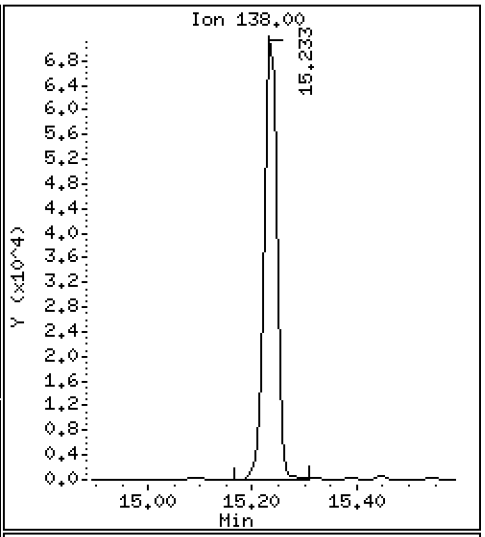
Column phase: ZB-5msi

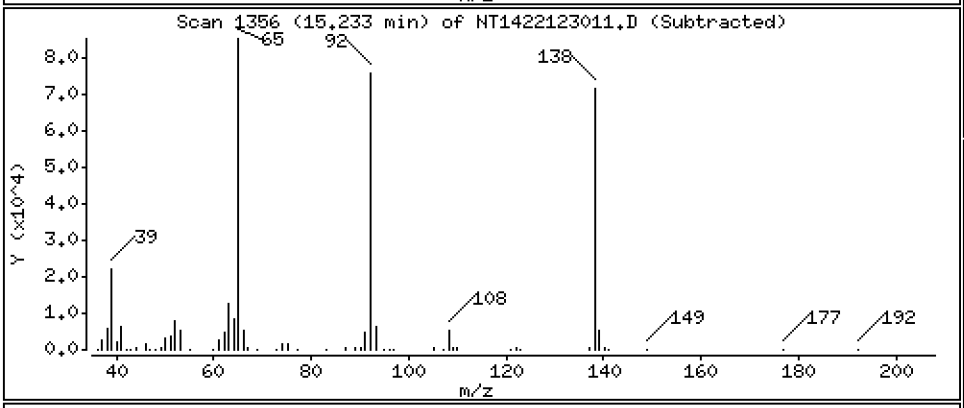
Column diameter: 0.25

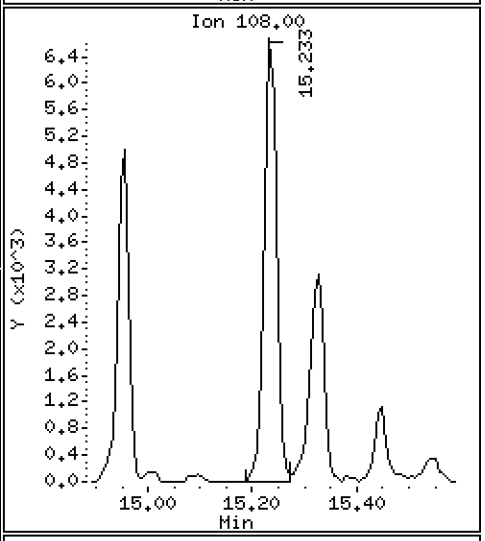
43 3-Nitroaniline

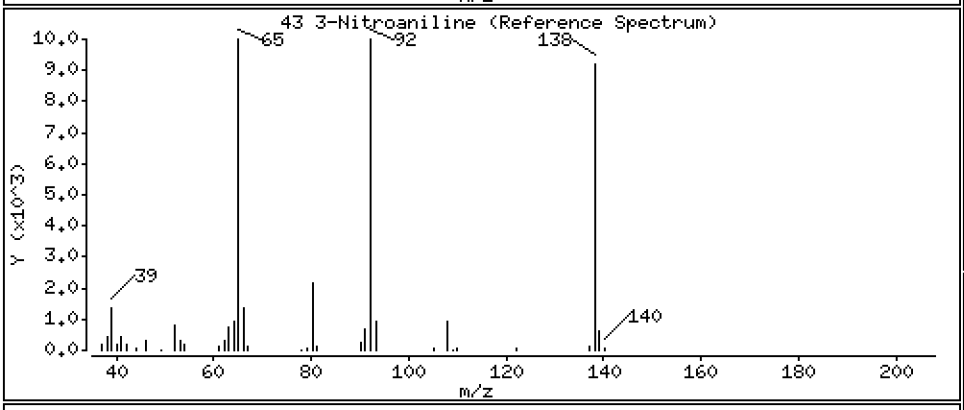
Concentration: 5.088 ug/mL

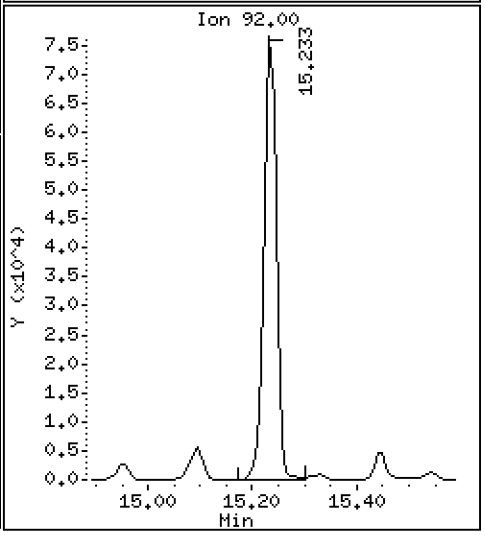


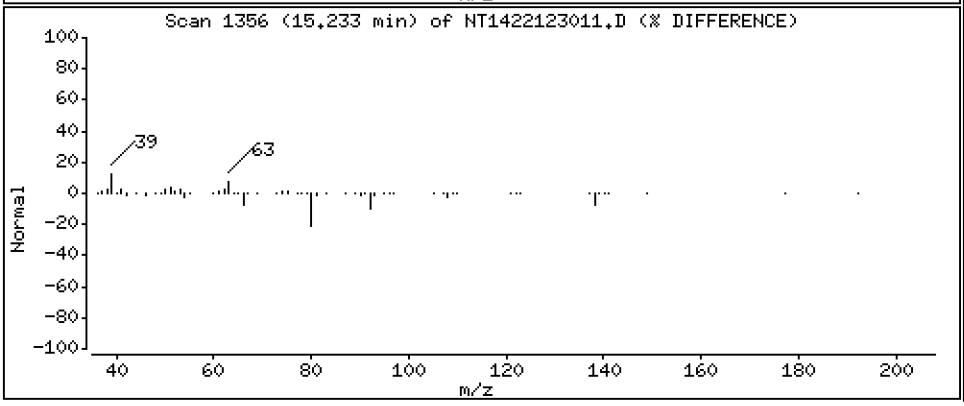












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

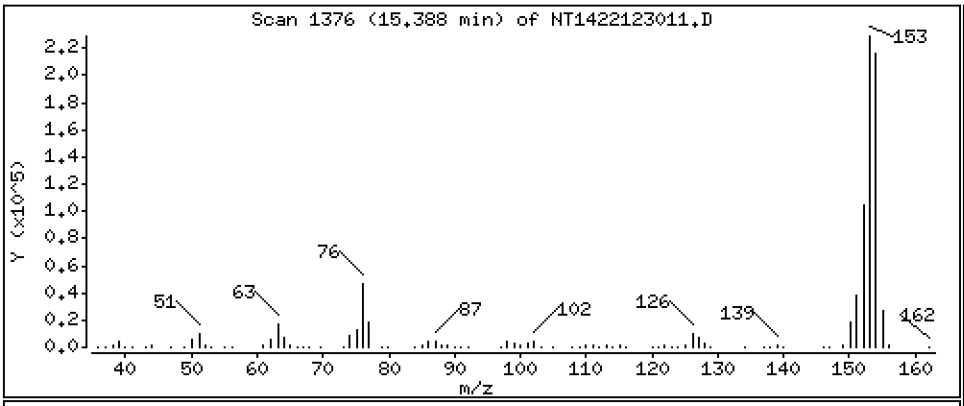
Operator: VTS

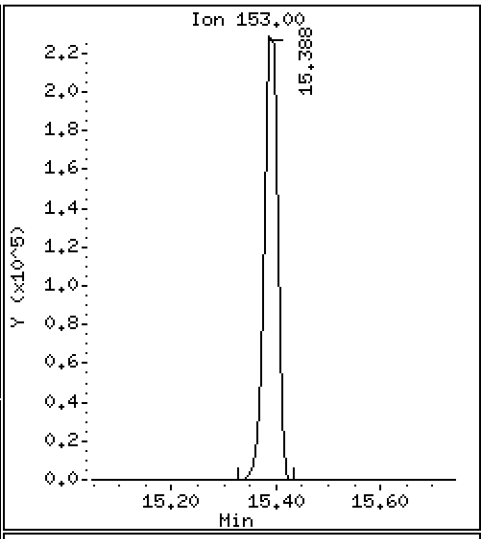
Column phase: ZB-5msi

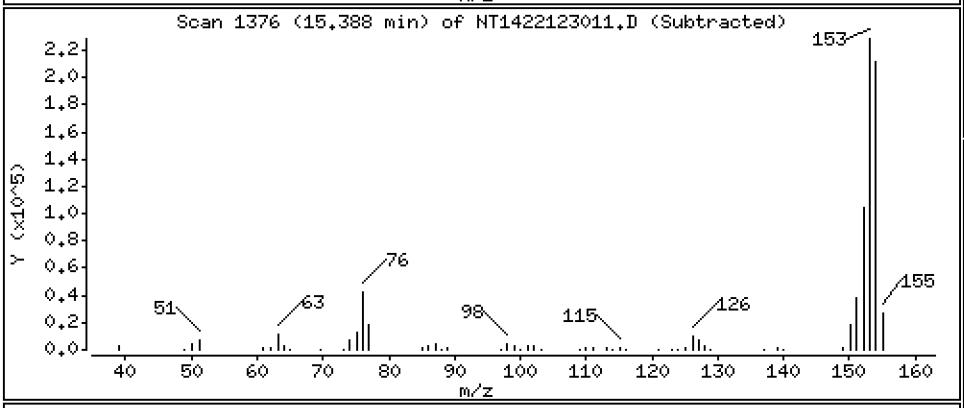
Column diameter: 0.25

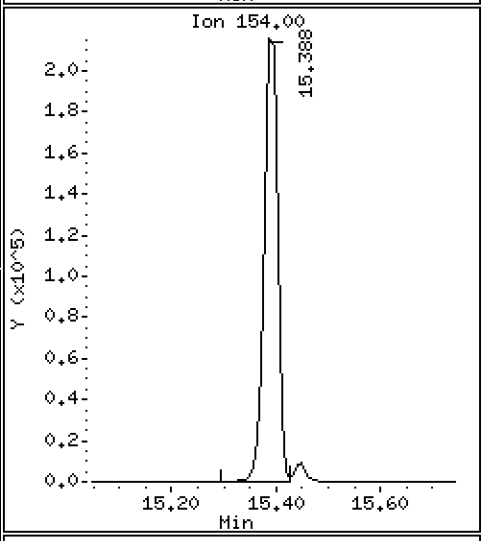
44 Acenaphthene

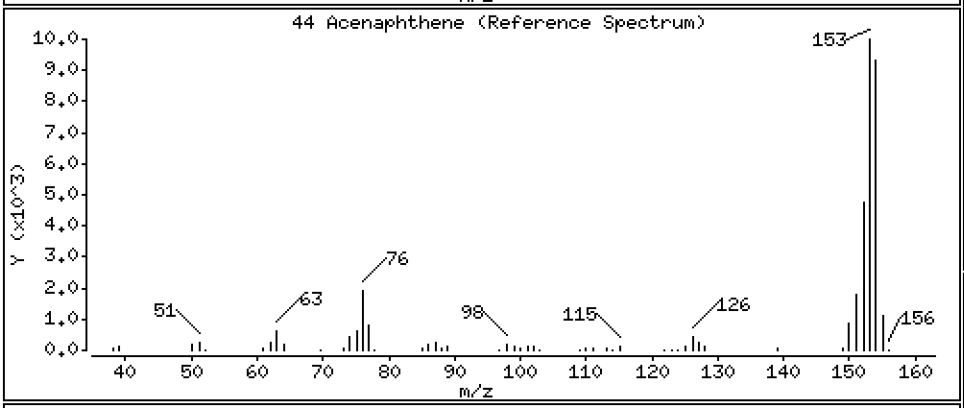
Concentration: 4.916 ug/mL

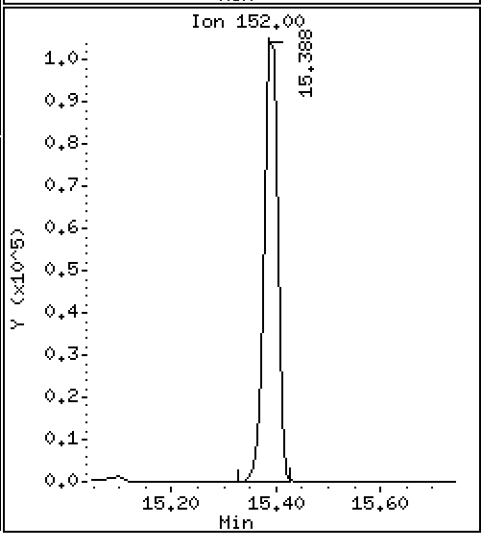


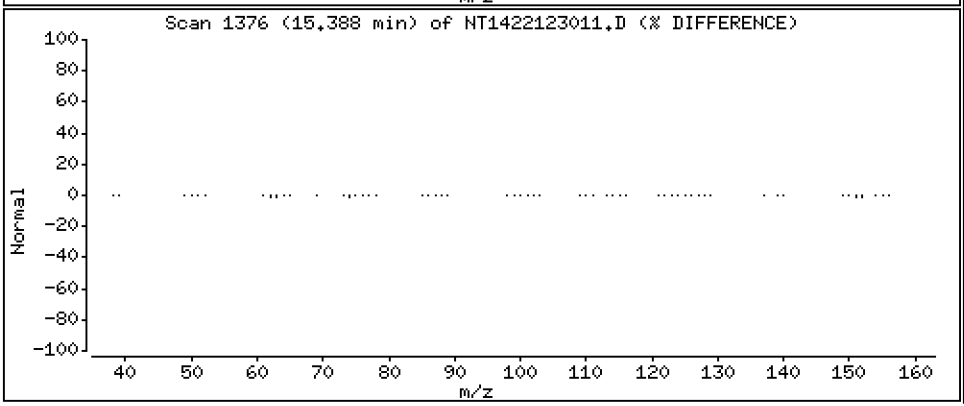












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

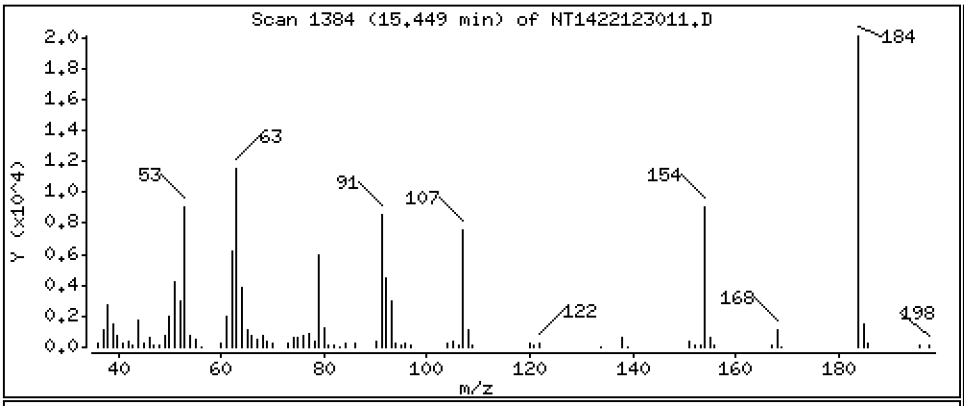
Operator: VTS

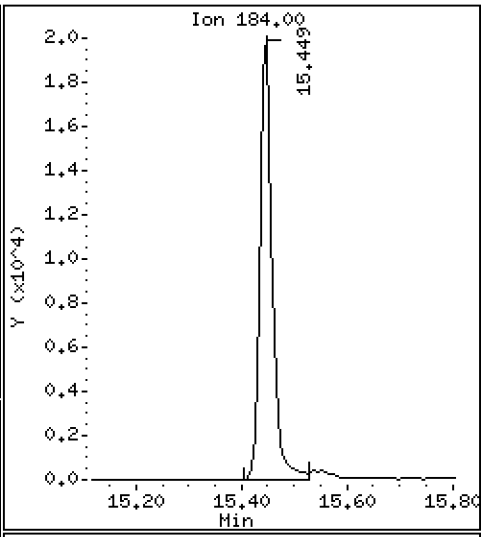
Column phase: ZB-5msi

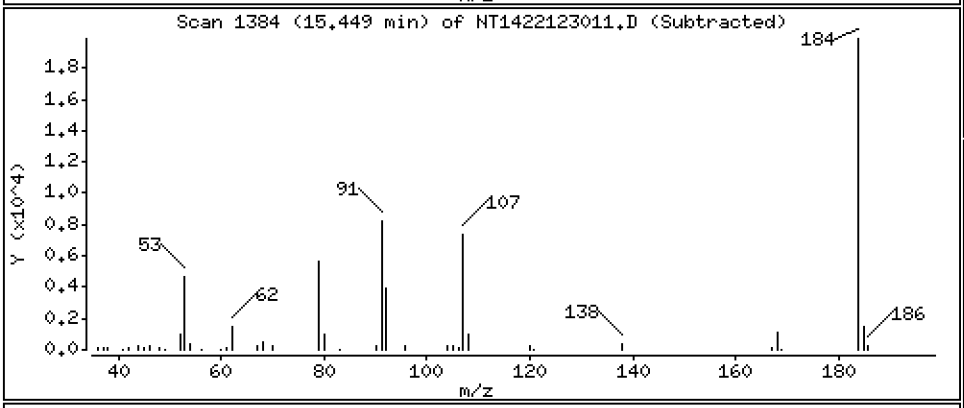
Column diameter: 0.25

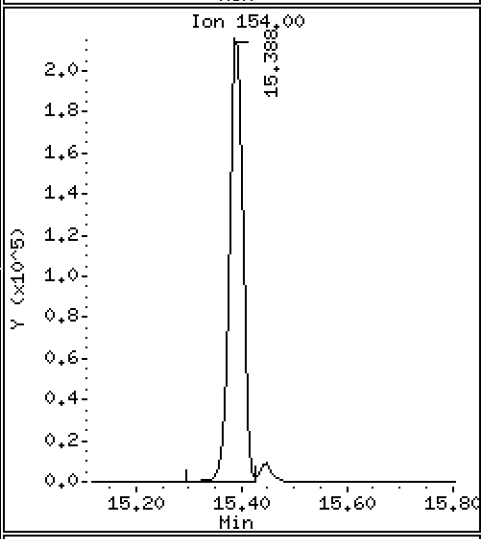
45 2,4-Dinitrophenol

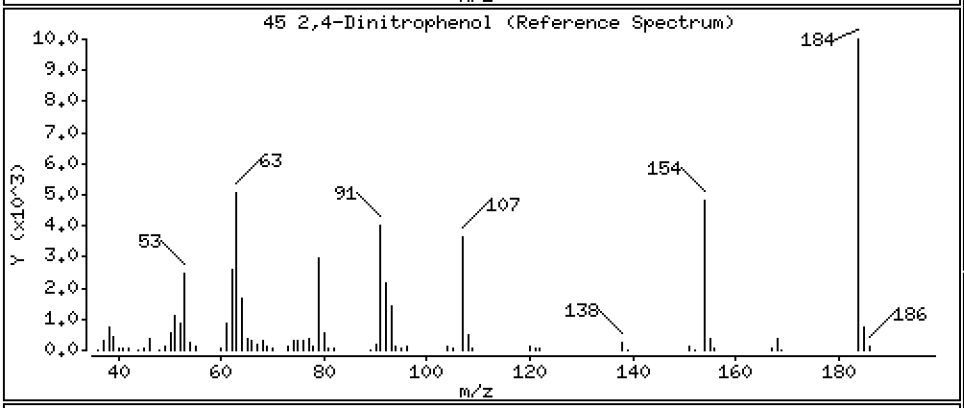
Concentration: 2.036 ug/mL

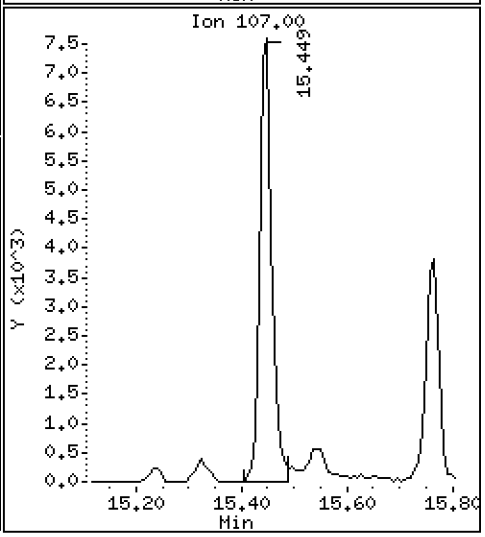


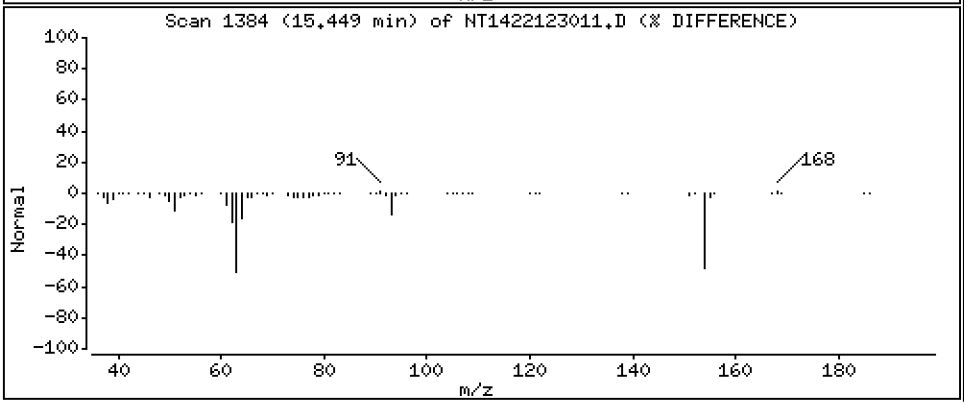












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

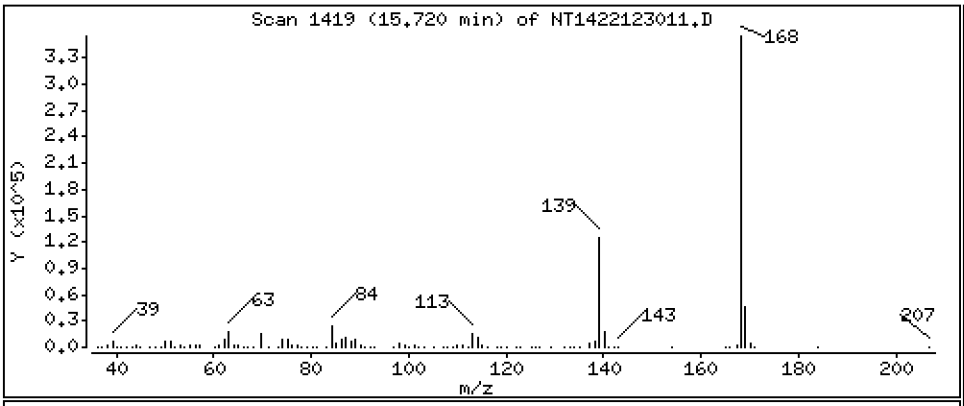
Operator: VTS

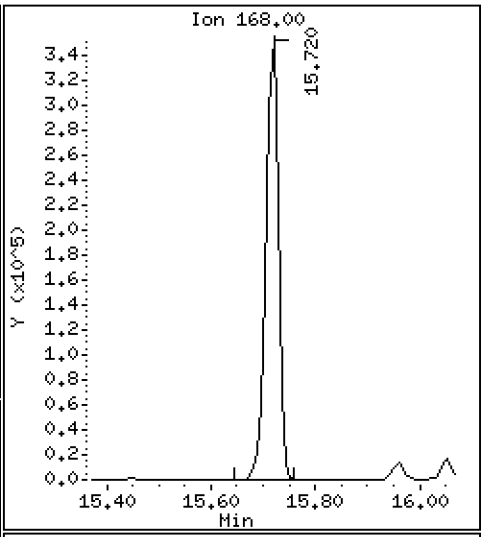
Column phase: ZB-5msi

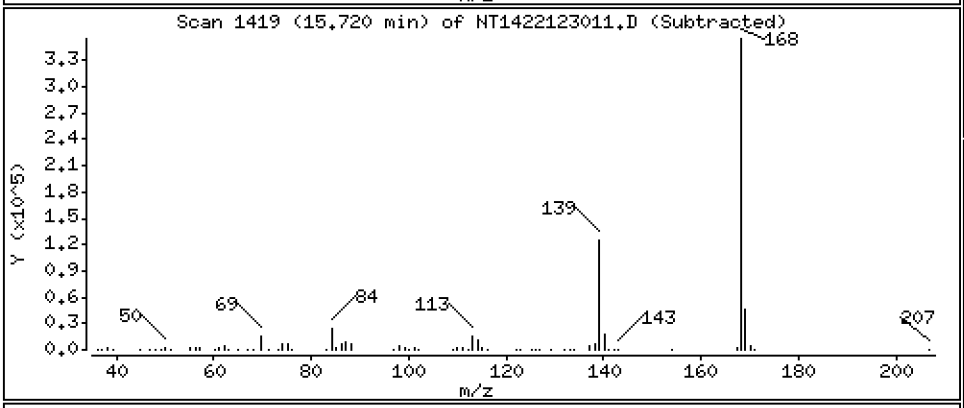
Column diameter: 0.25

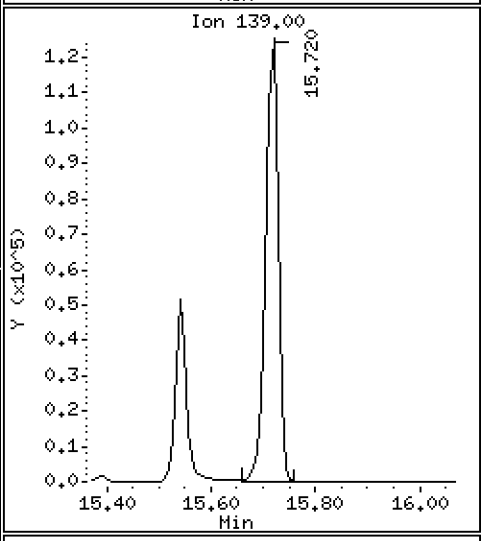
46 Dibenzofuran

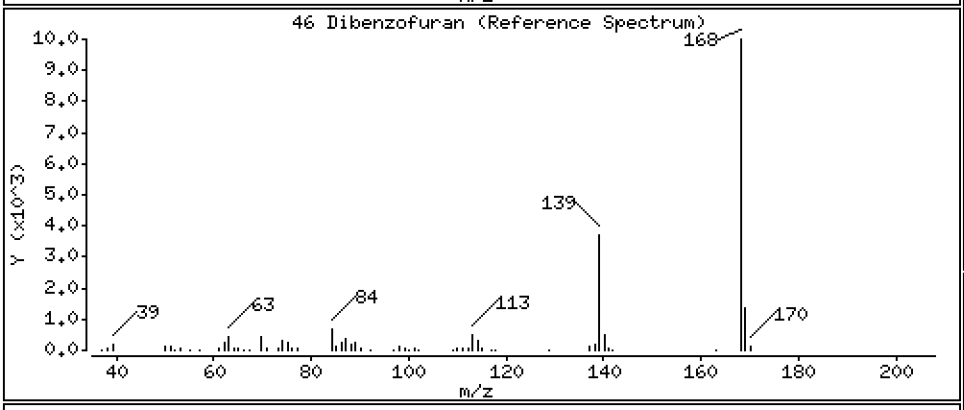
Concentration: 4.709 ug/mL

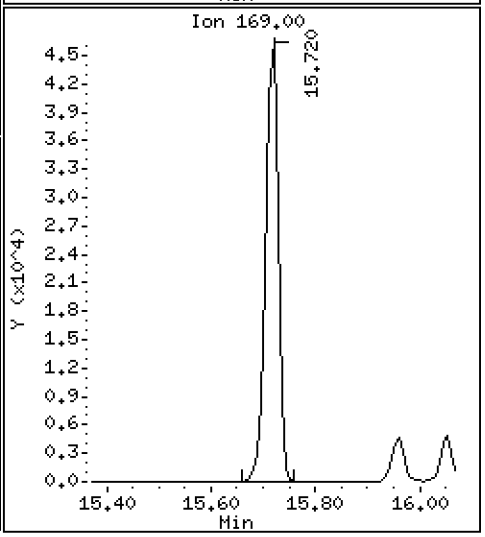


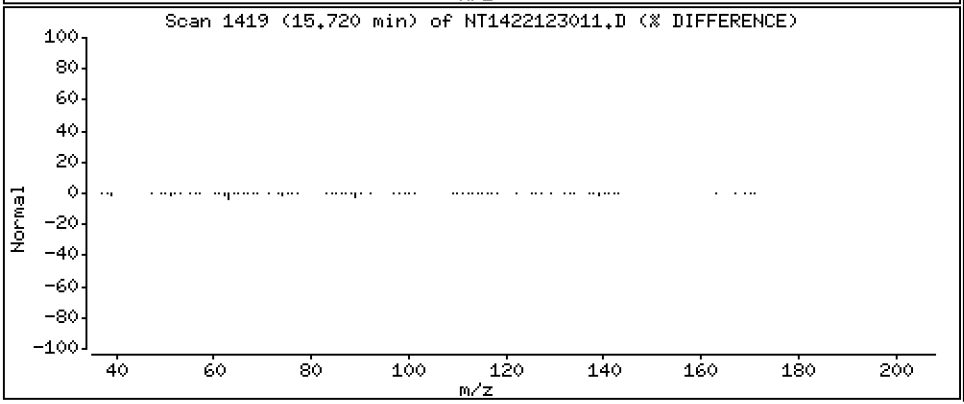












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

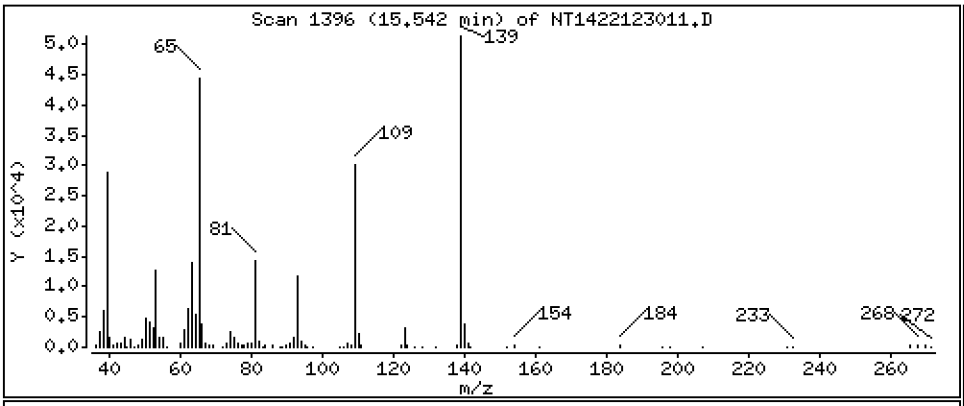
Operator: VTS

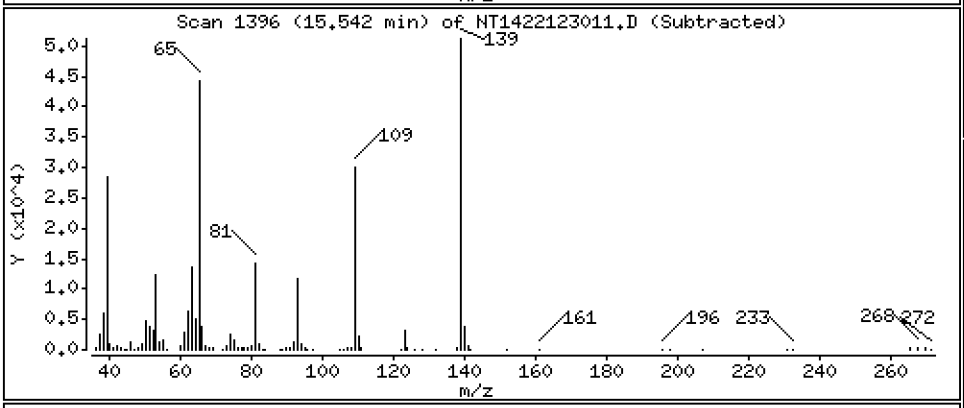
Column phase: ZB-5msi

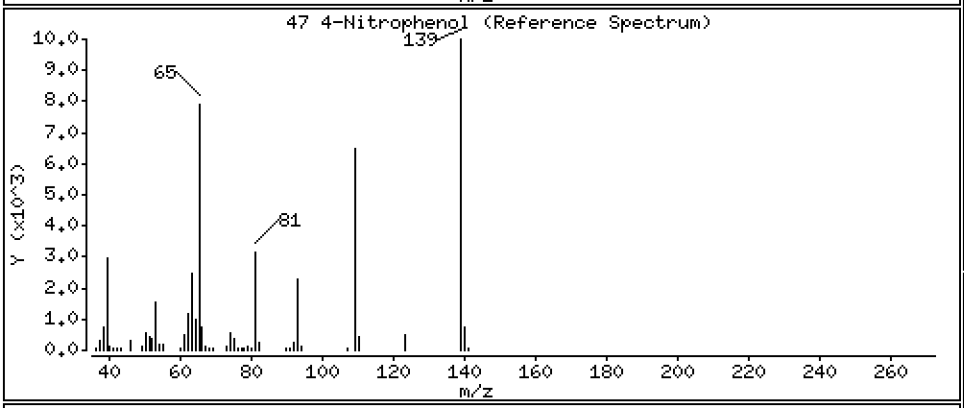
Column diameter: 0.25

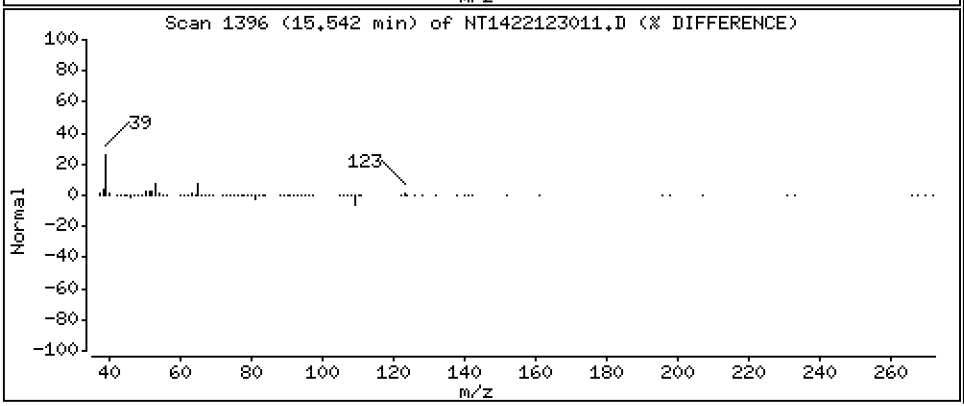
47 4-Nitrophenol

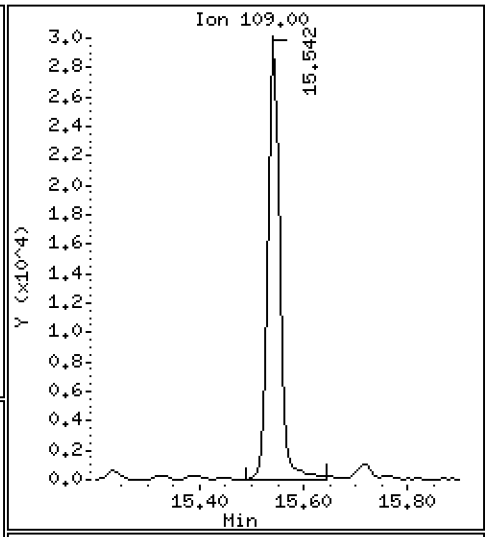
Concentration: 4.077 ug/mL

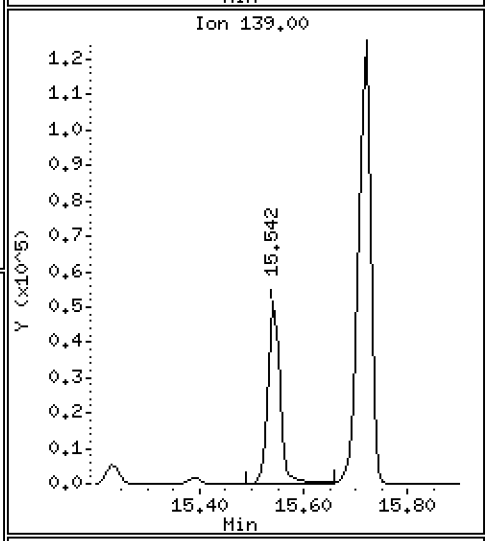


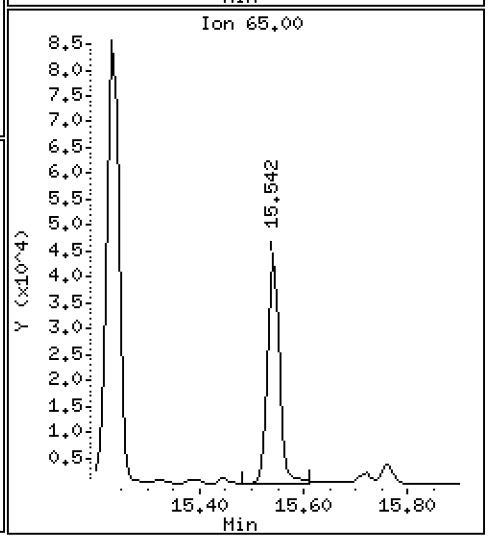












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

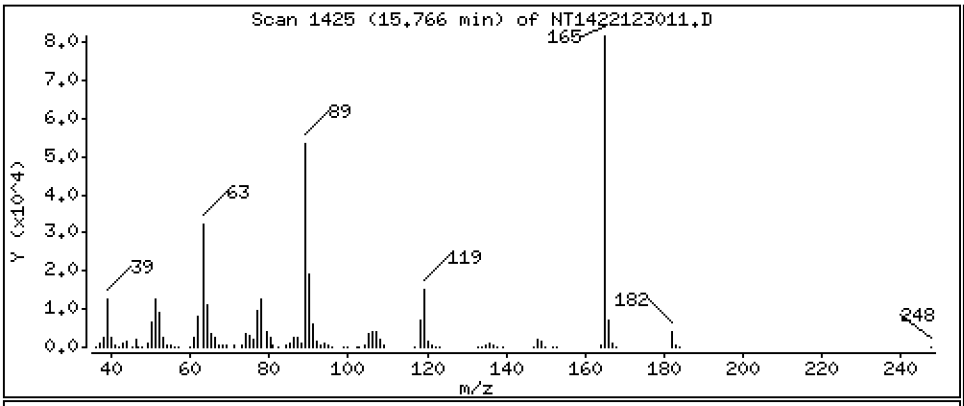
Operator: VTS

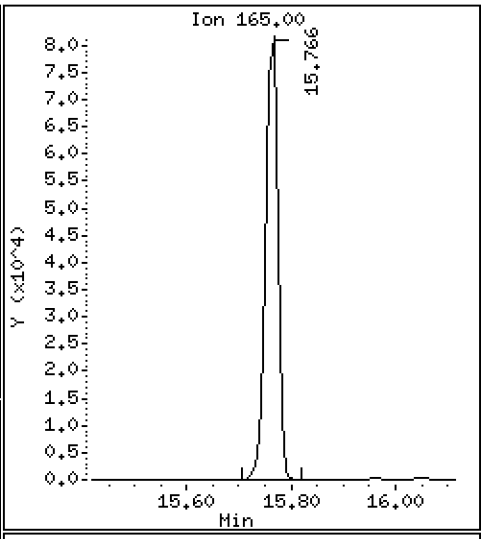
Column phase: ZB-5msi

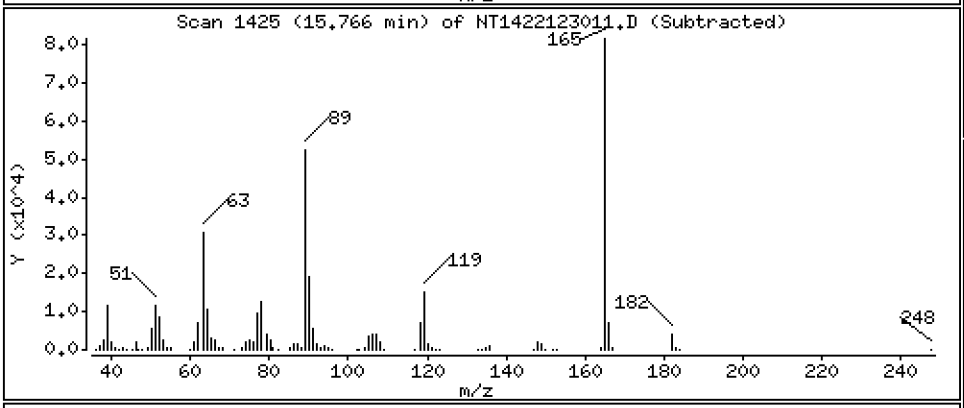
Column diameter: 0.25

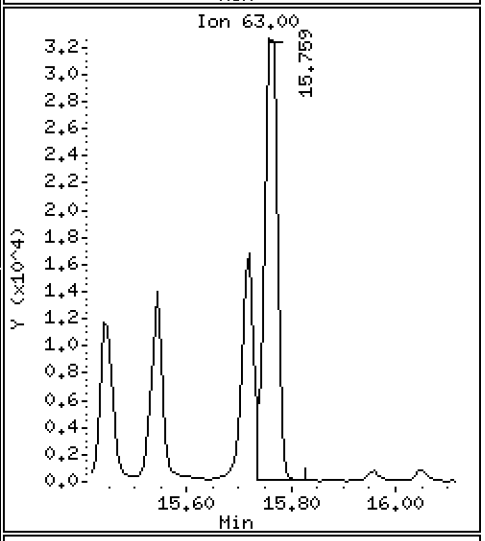
48 2,4-Dinitrotoluene

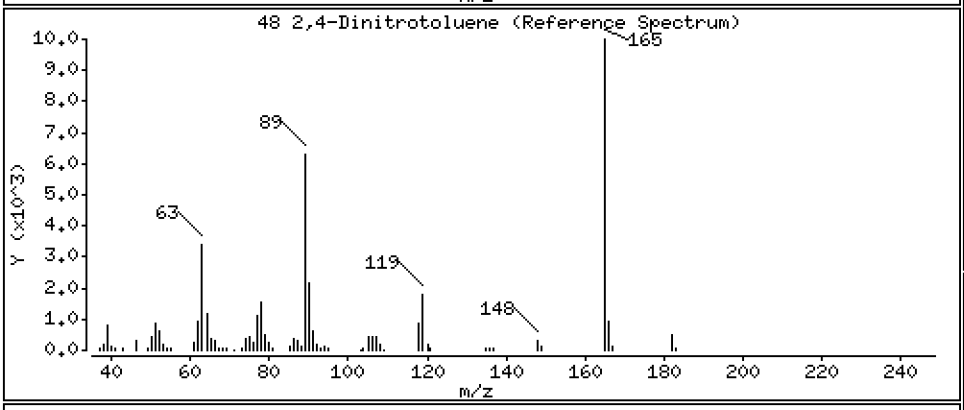
Concentration: 4.956 ug/mL

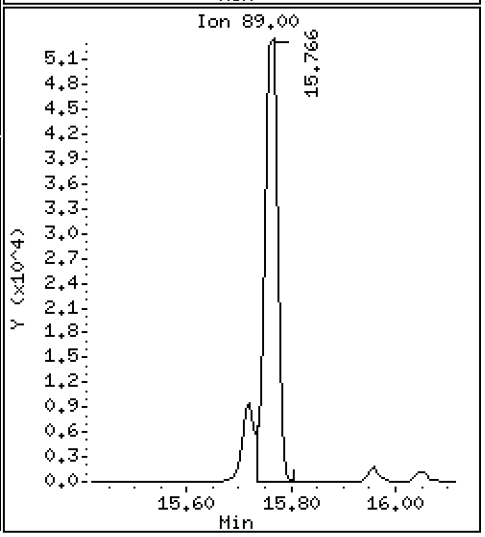


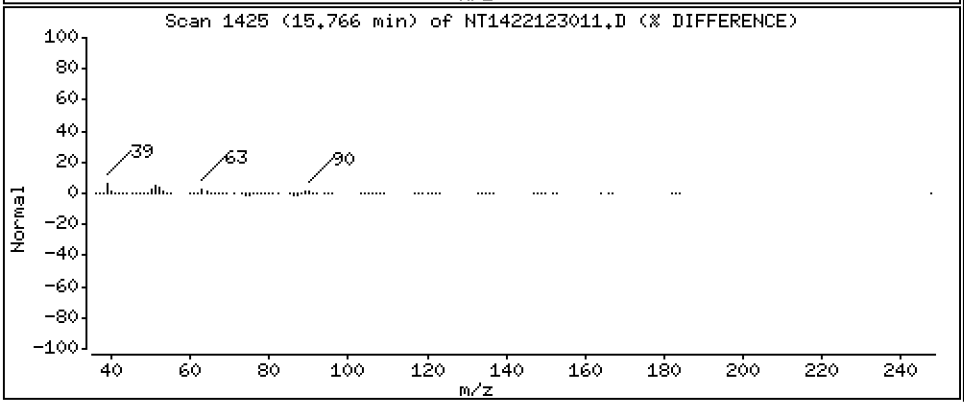












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

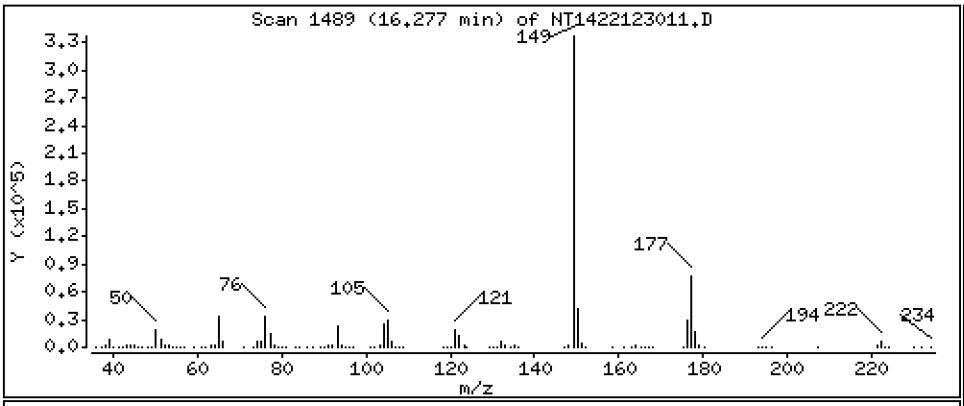
Operator: VTS

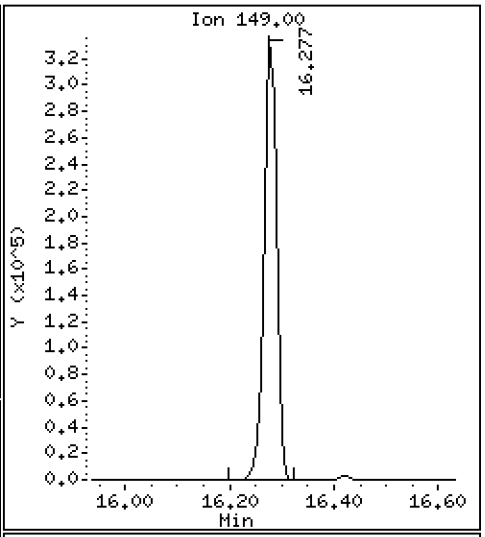
Column phase: ZB-5msi

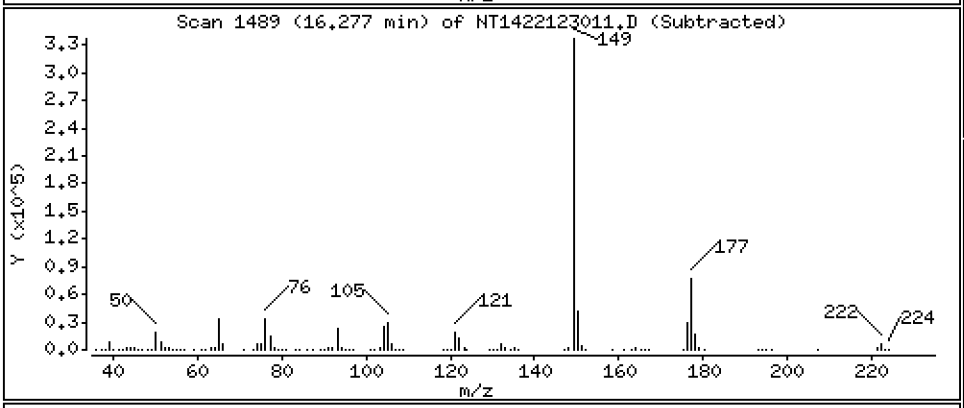
Column diameter: 0.25

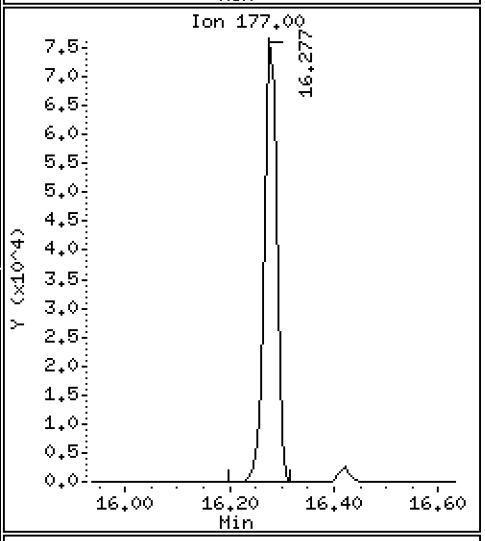
50 Diethylphthalate

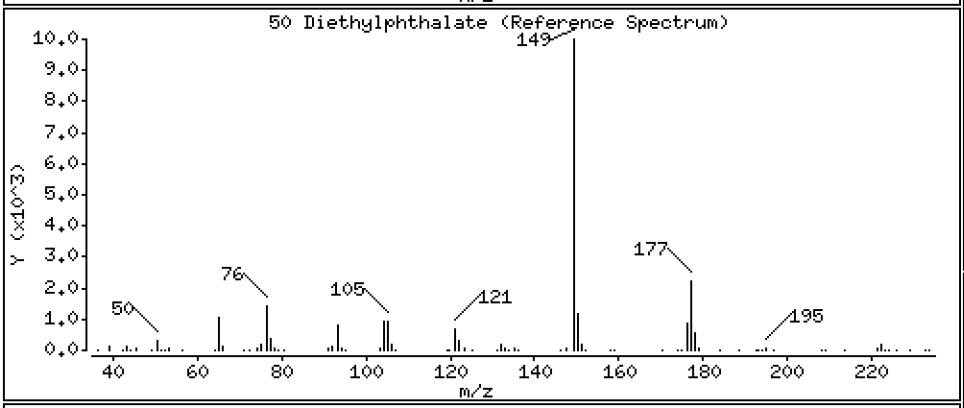
Concentration: 5.353 ug/mL

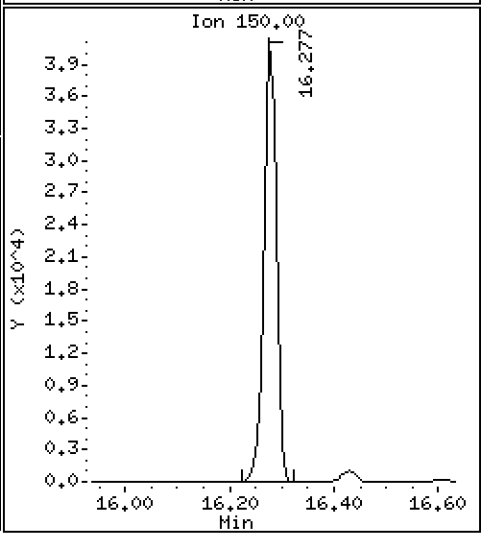


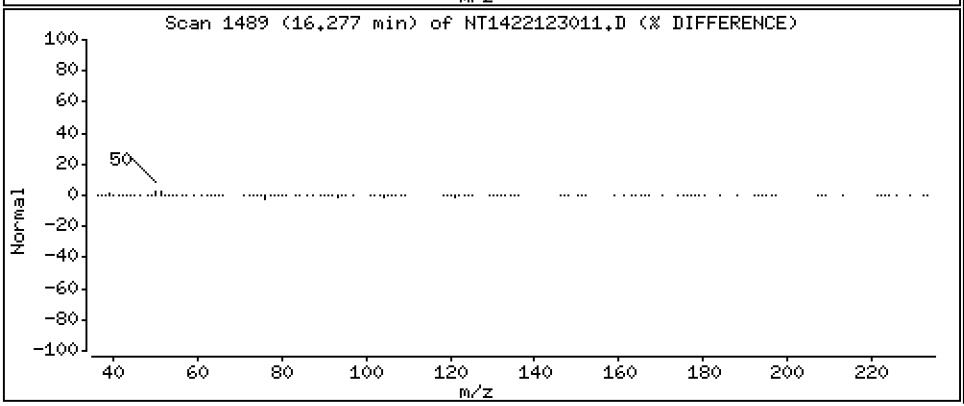












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

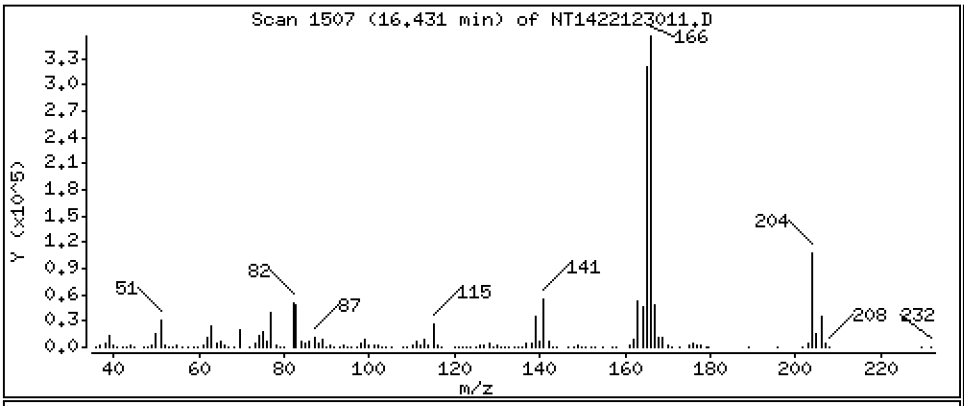
Operator: VTS

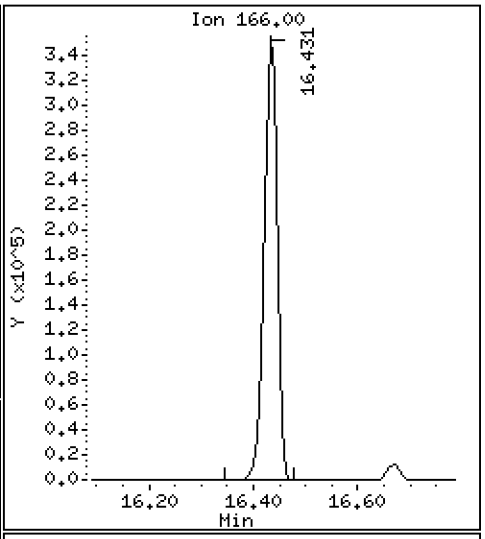
Column phase: ZB-5msi

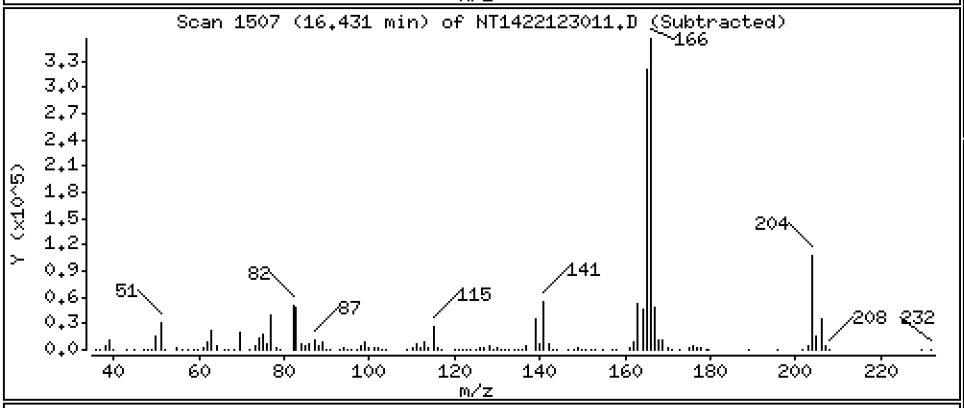
Column diameter: 0.25

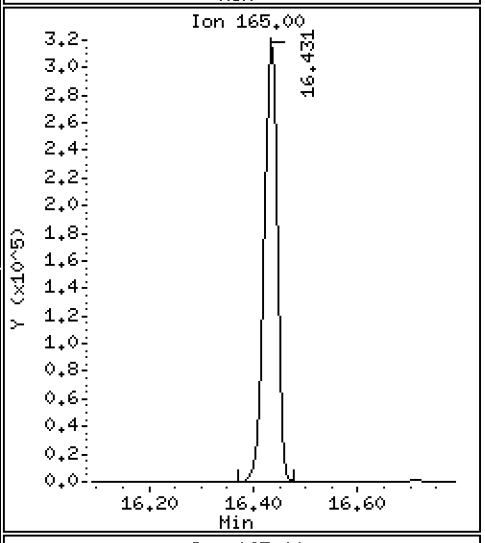
49 Fluorene

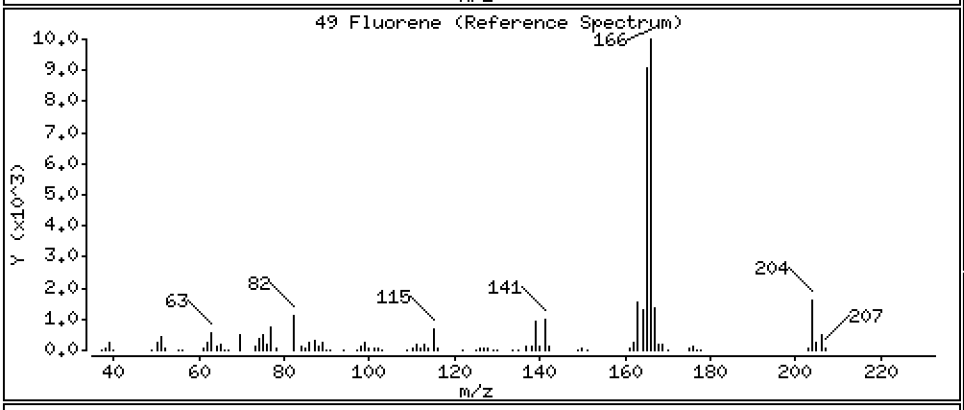
Concentration: 5.230 ug/mL

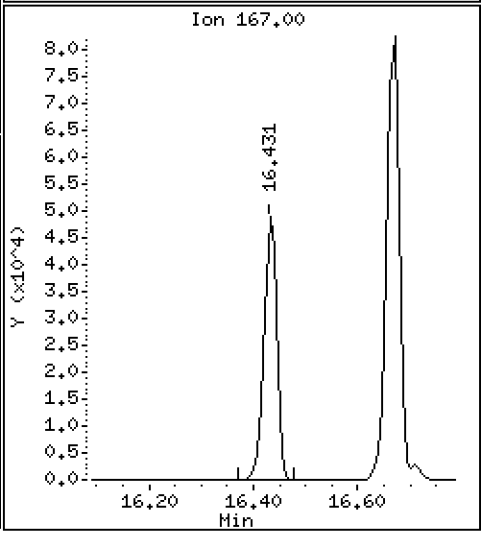


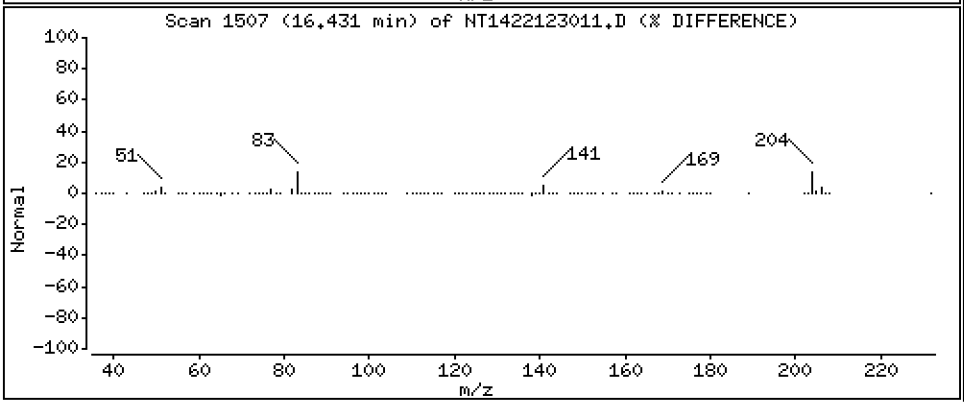












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

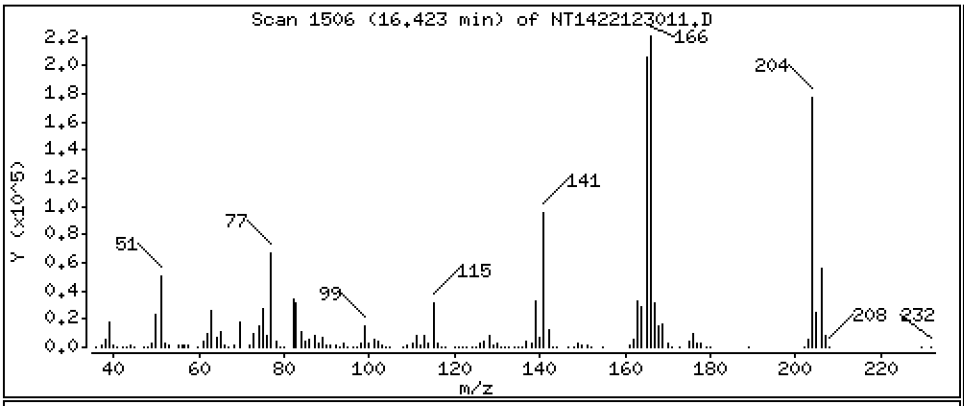
Operator: VTS

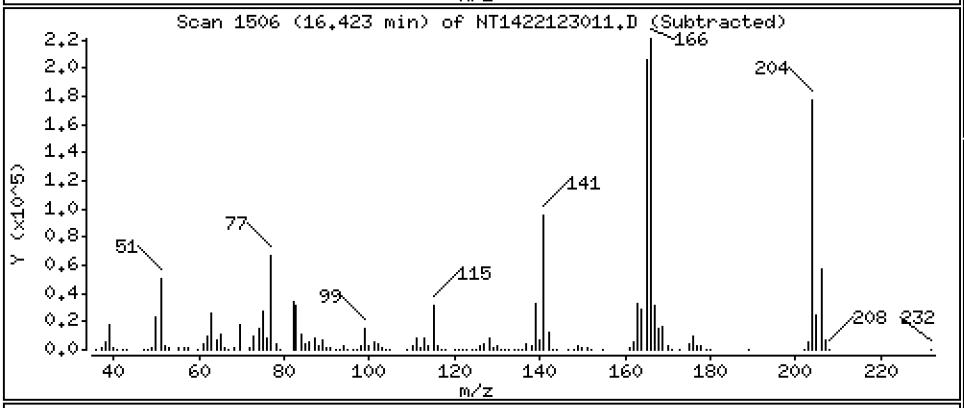
Column phase: ZB-5msi

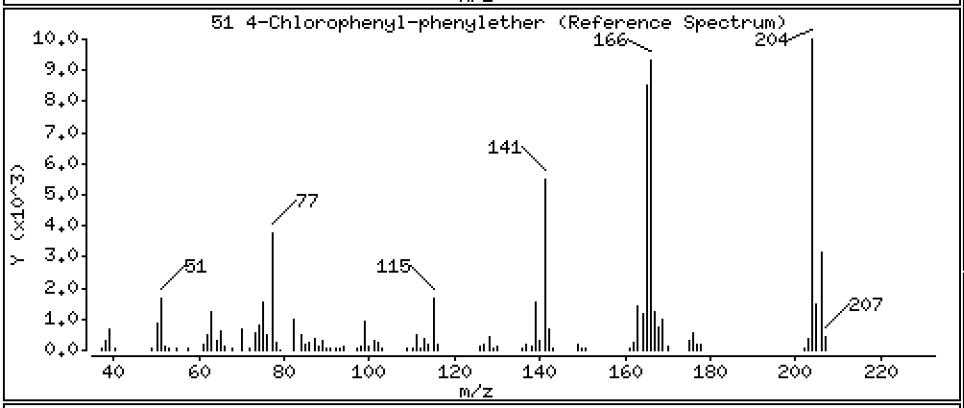
Column diameter: 0.25

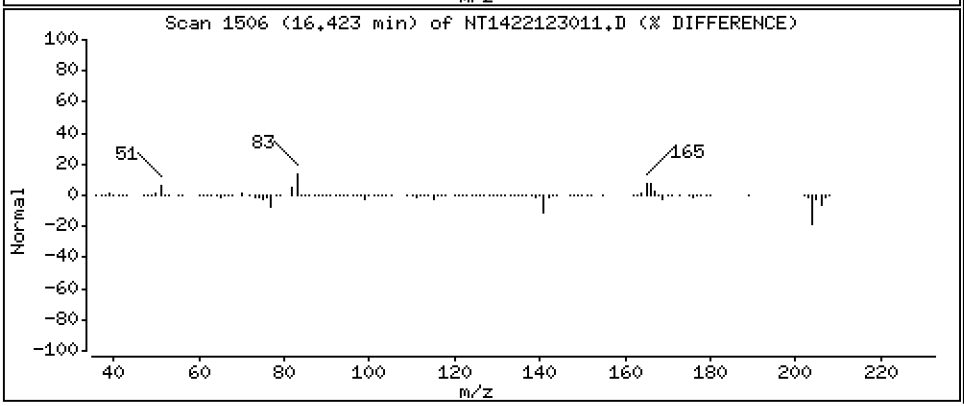
51 4-Chlorophenyl-phenylether

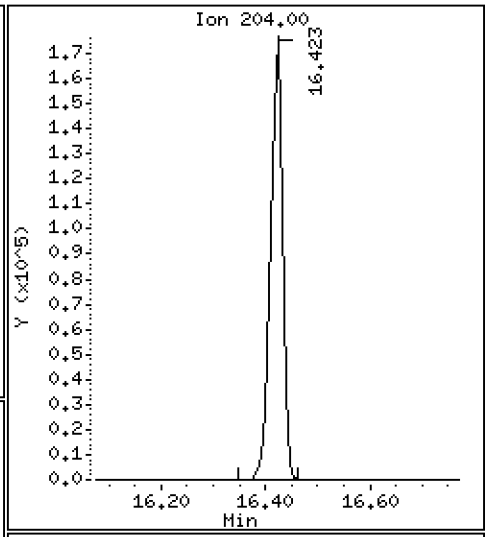
Concentration: 5.094 ug/mL

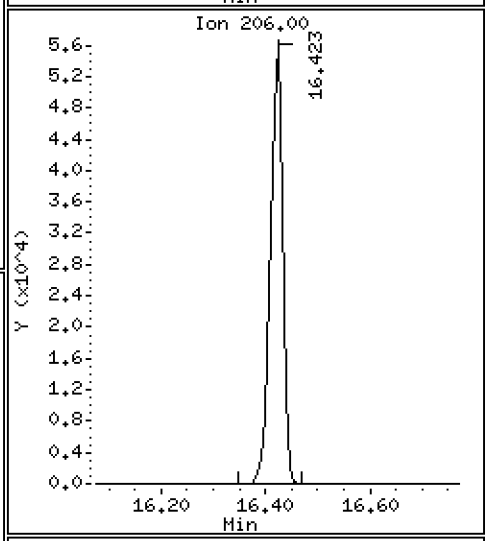


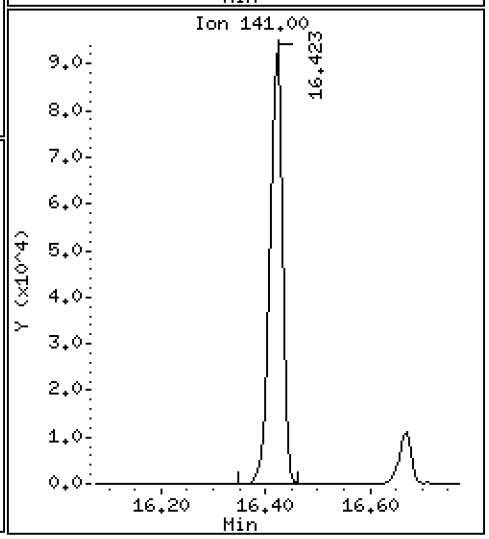












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

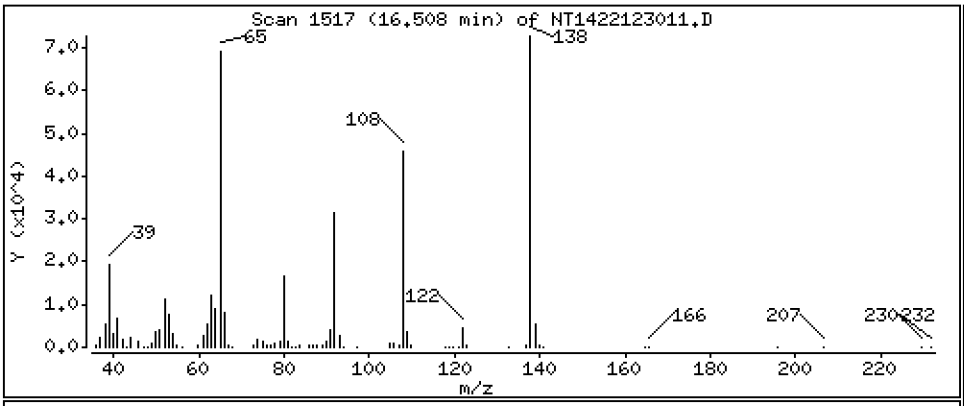
Operator: VTS

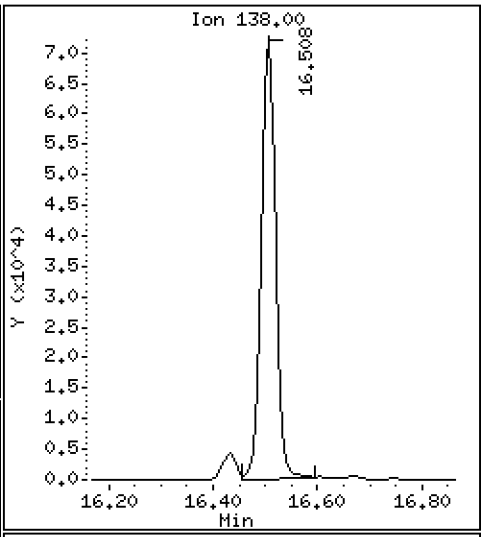
Column phase: ZB-5msi

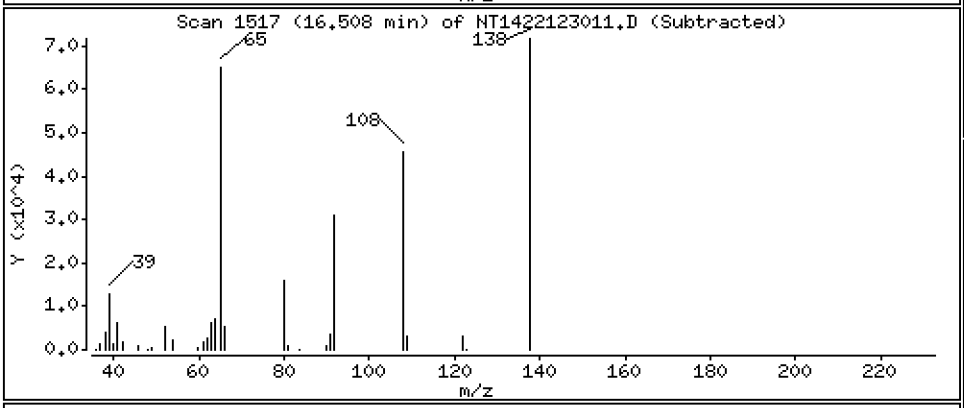
Column diameter: 0.25

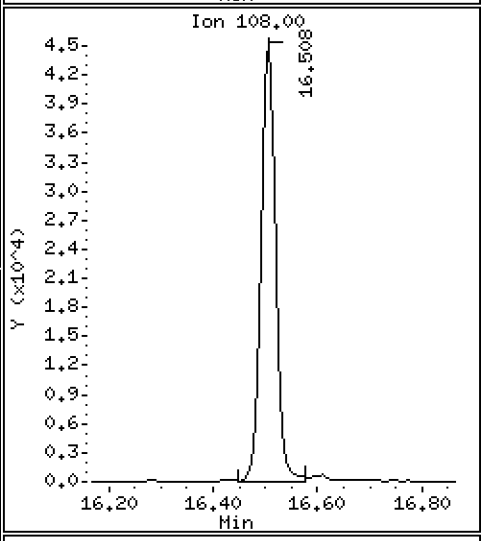
52 4-Nitroaniline

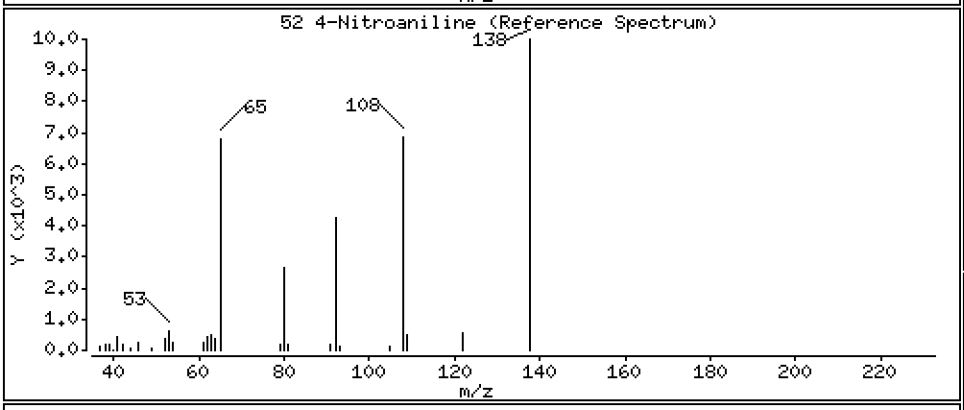
Concentration: 4.733 ug/mL

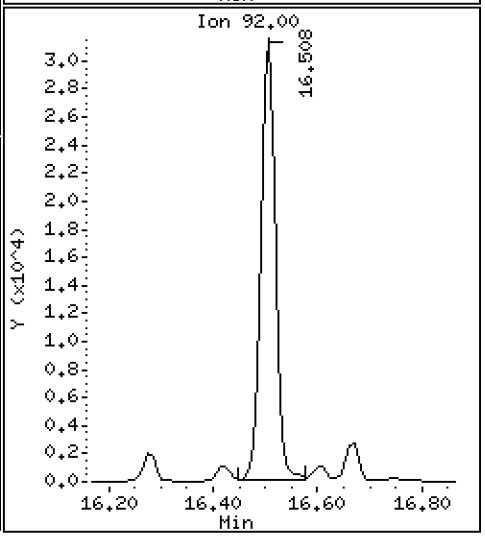


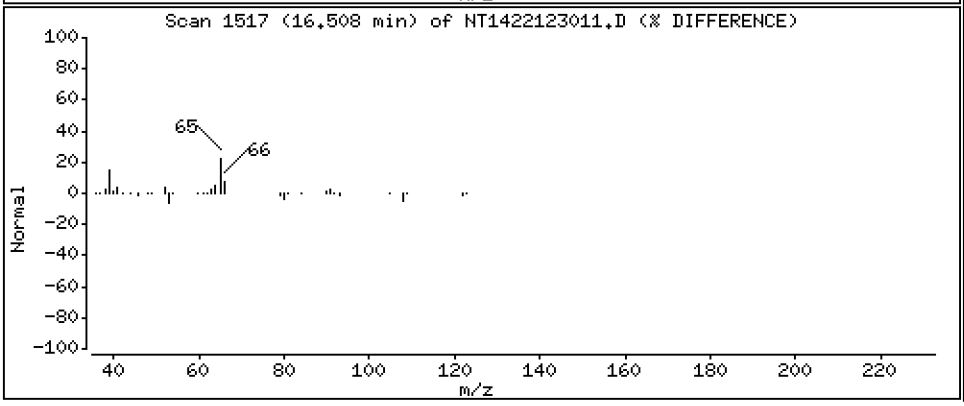












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

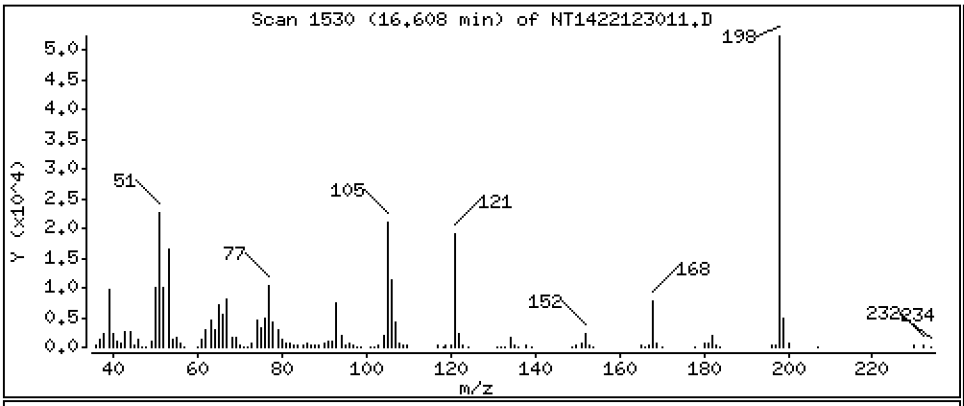
Operator: VTS

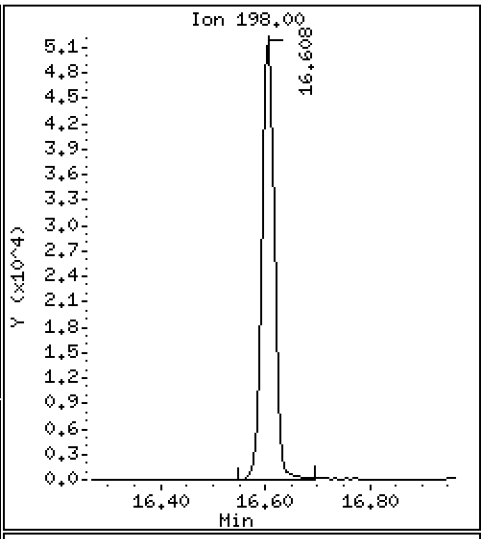
Column phase: ZB-5msi

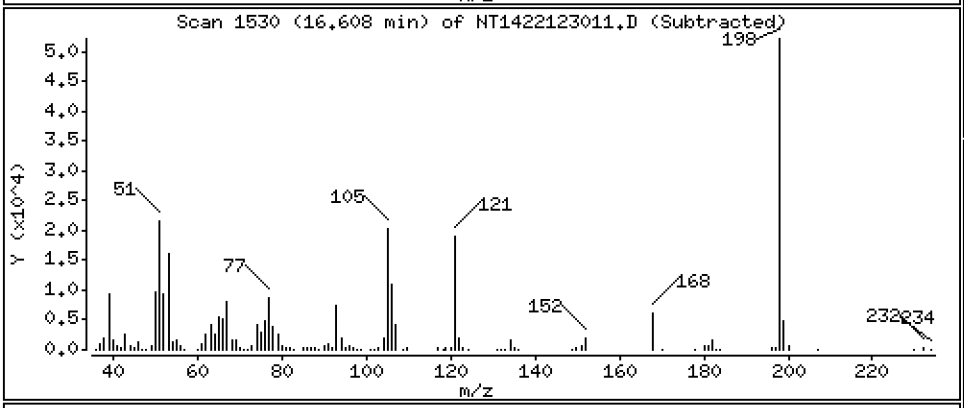
Column diameter: 0.25

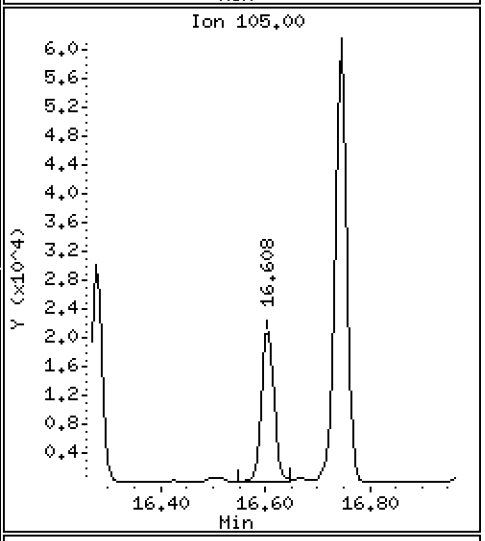
53 4,6-Dinitro-2-methylphenol

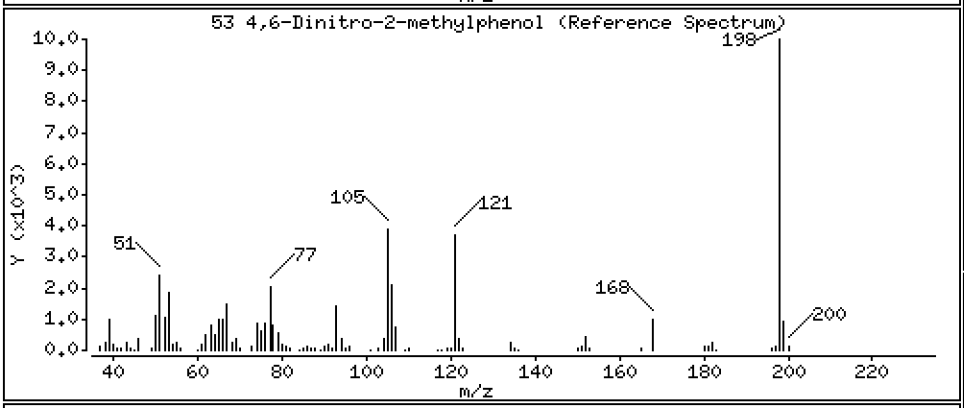
Concentration: 4.082 ug/mL

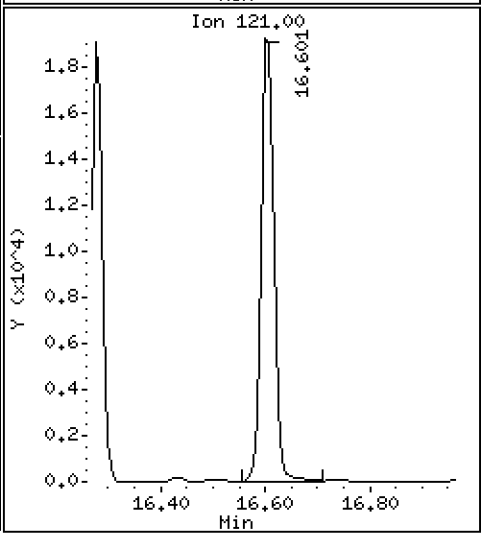


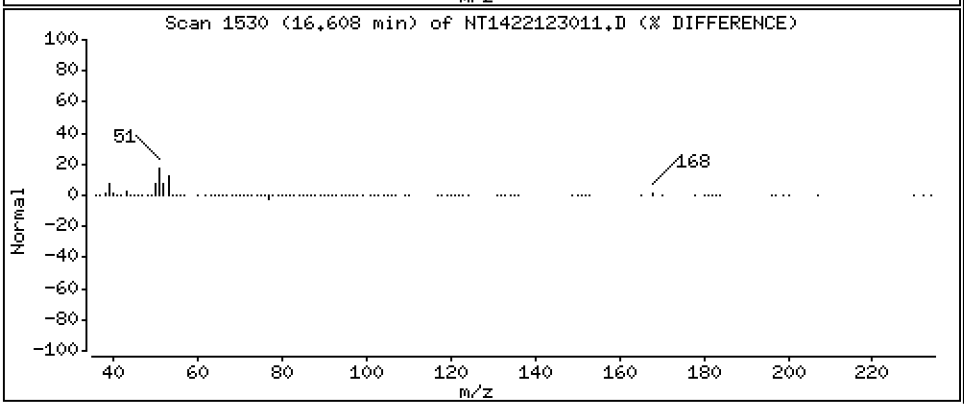












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

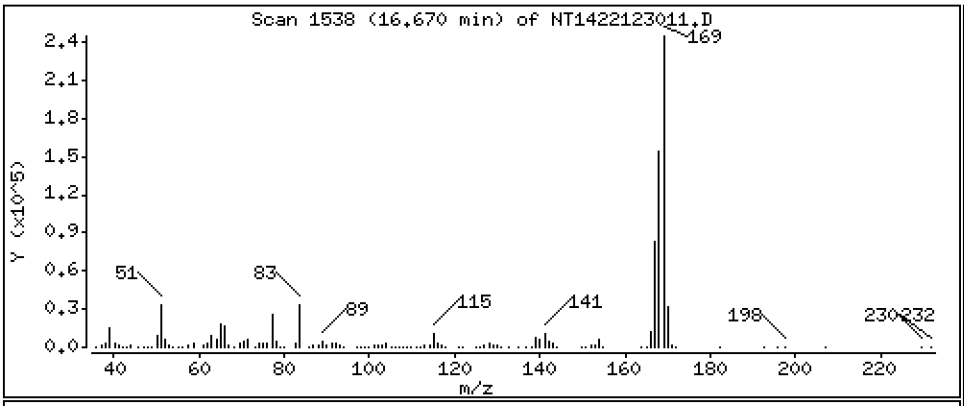
Operator: VTS

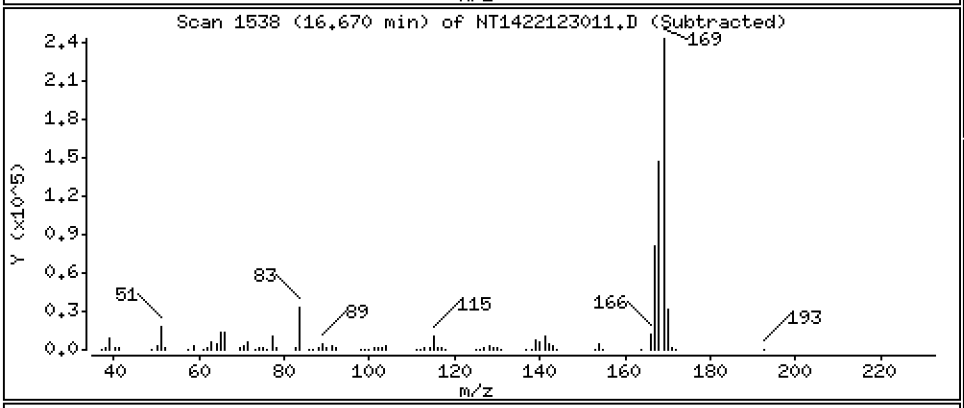
Column phase: ZB-5msi

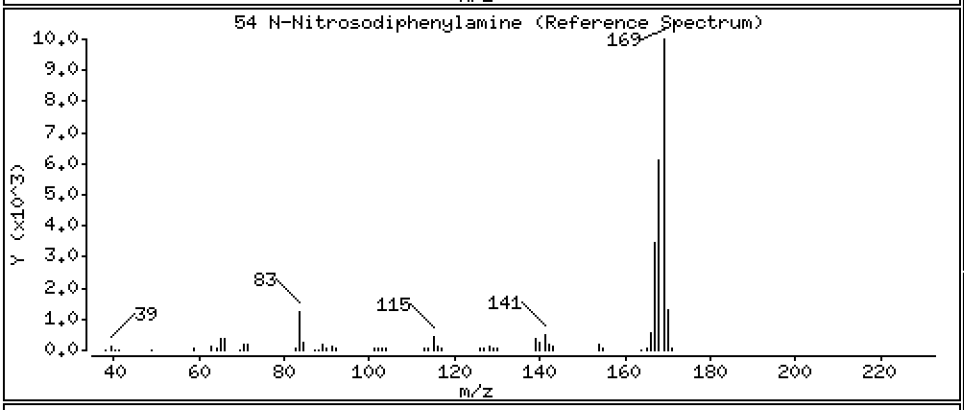
Column diameter: 0.25

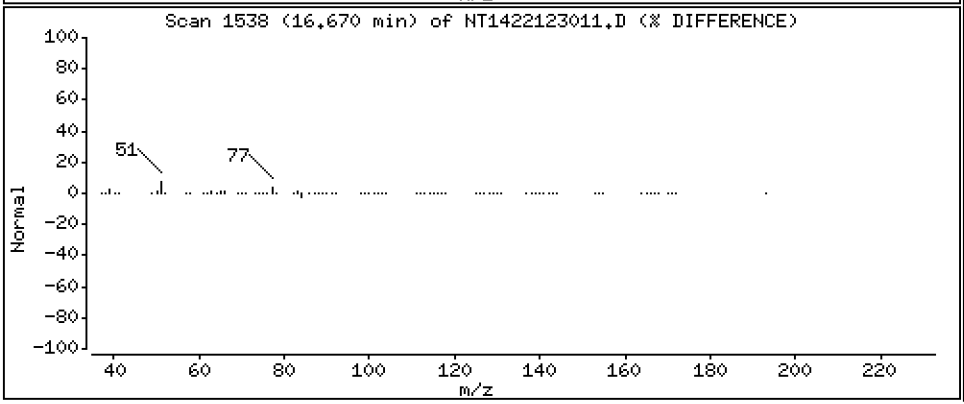
54 N-Nitrosodiphenylamine

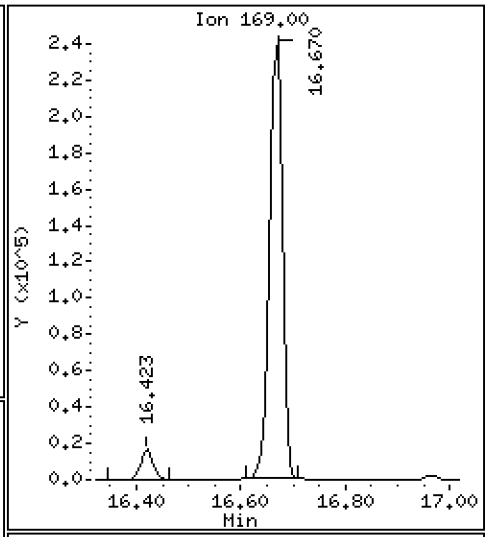
Concentration: 4.775 ug/mL

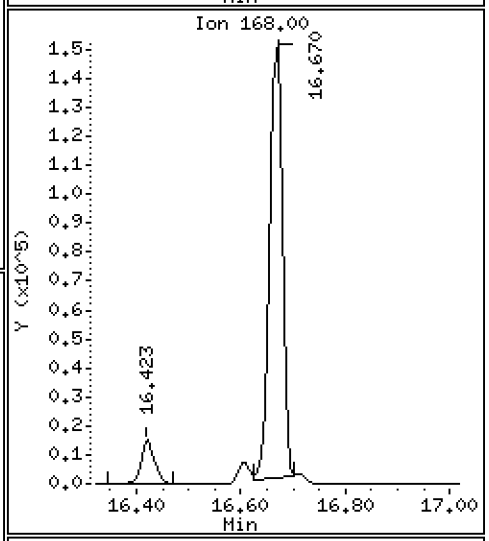


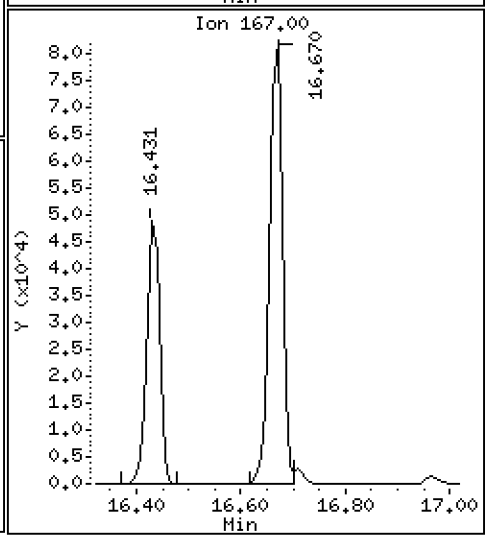












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

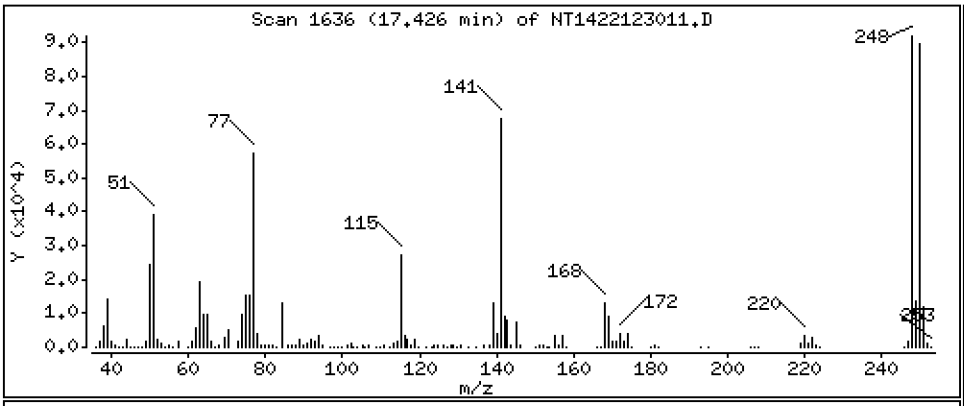
Operator: VTS

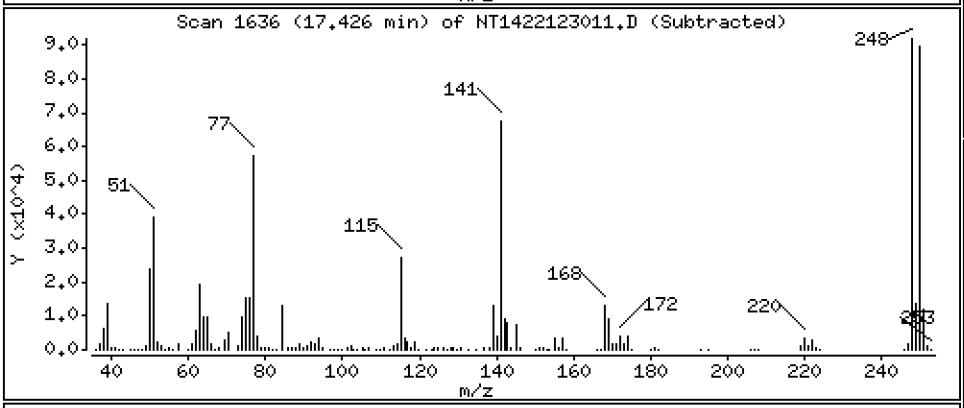
Column phase: ZB-5msi

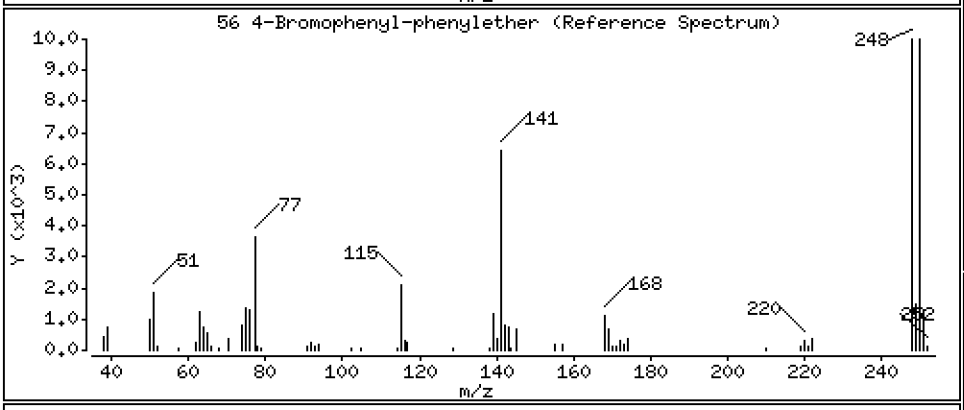
Column diameter: 0.25

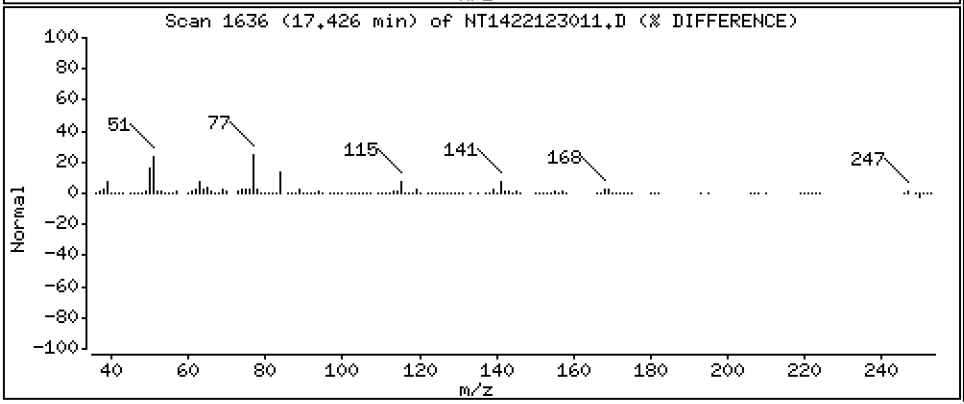
56 4-Bromophenyl-phenylether

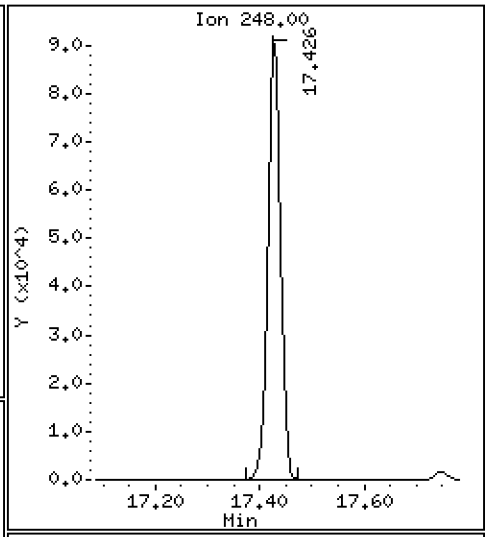
Concentration: 4.938 ug/mL

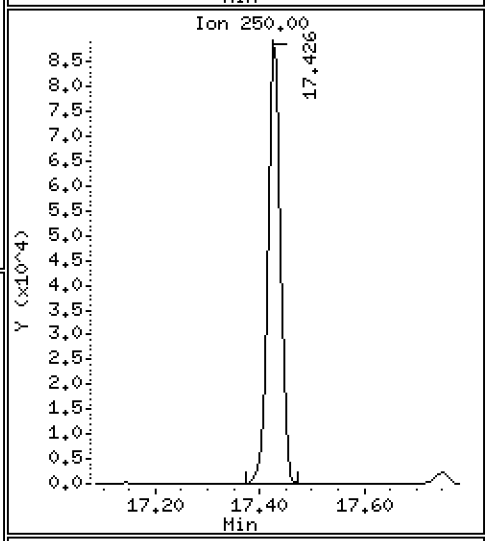


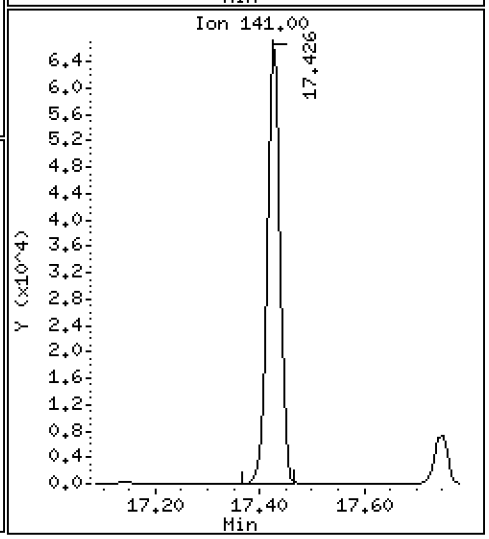












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

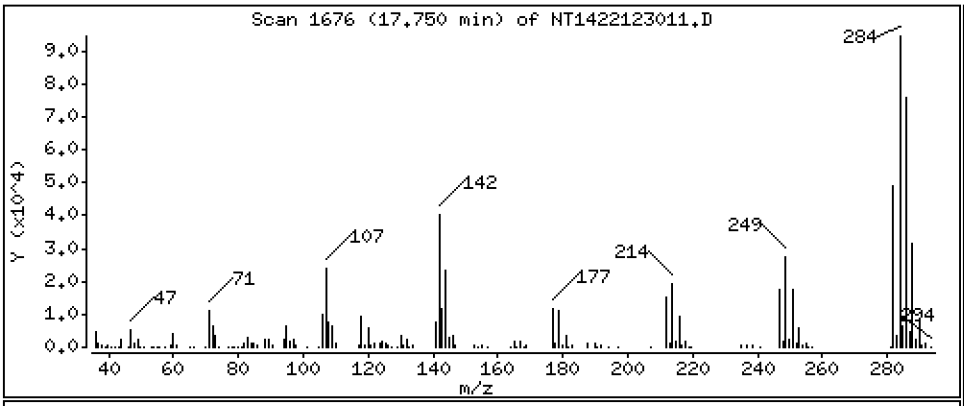
Operator: VTS

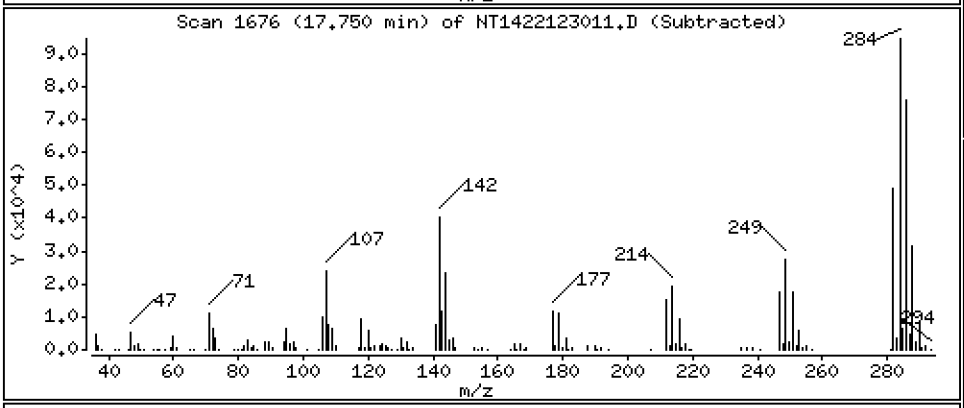
Column phase: ZB-5msi

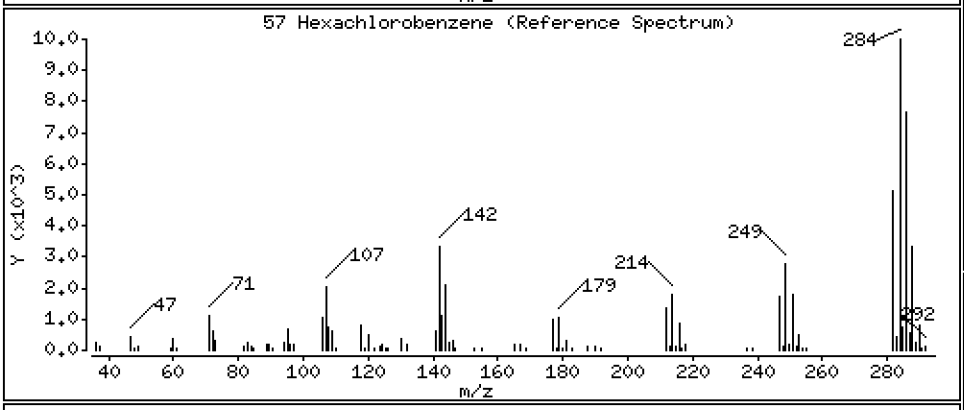
Column diameter: 0.25

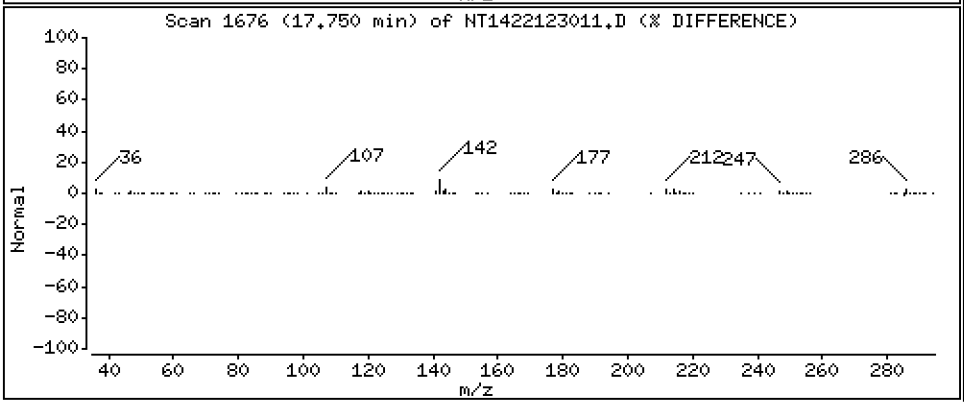
57 Hexachlorobenzene

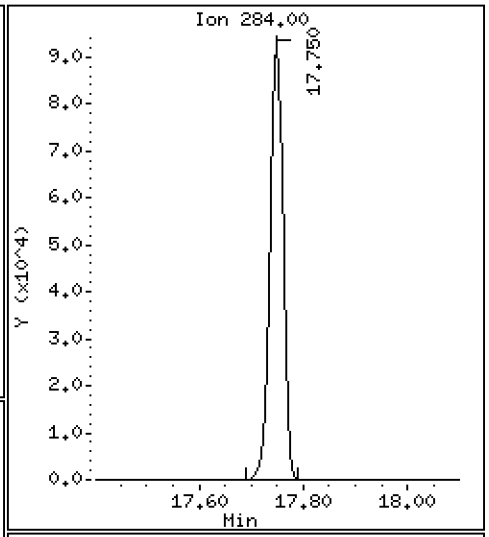
Concentration: 4.553 ug/mL

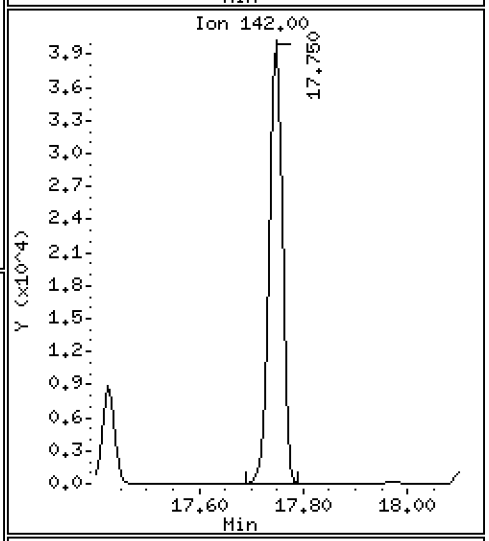


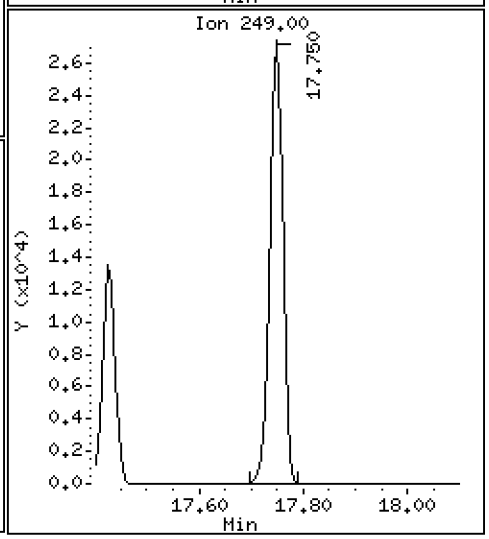












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

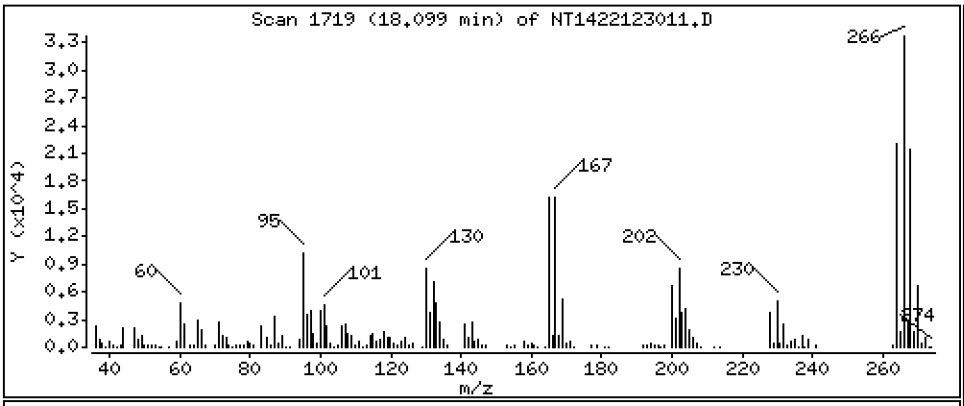
Operator: VTS

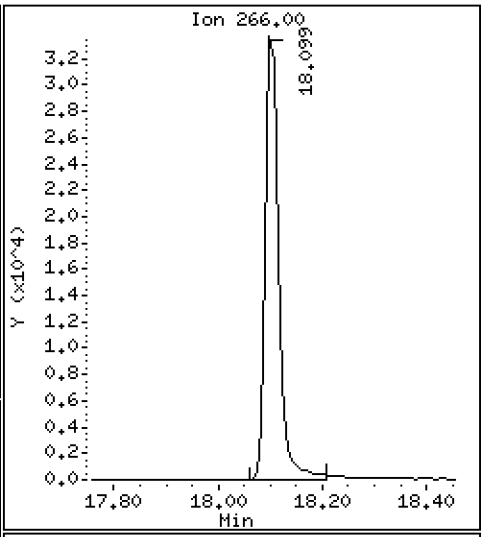
Column phase: ZB-5msi

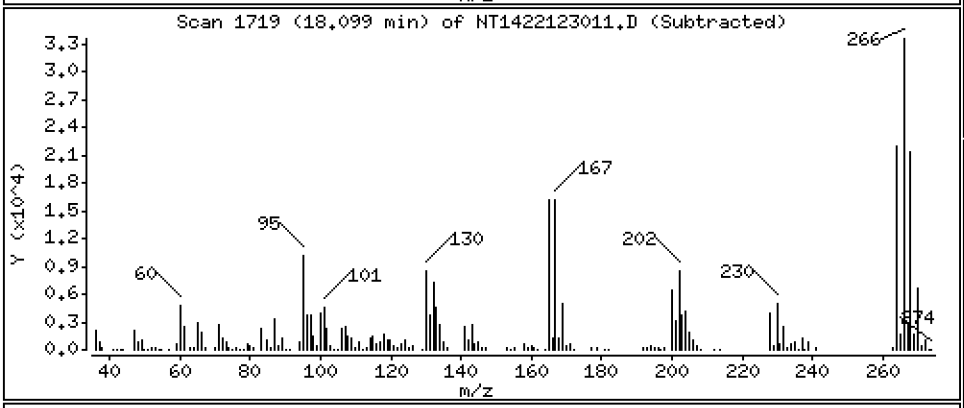
Column diameter: 0.25

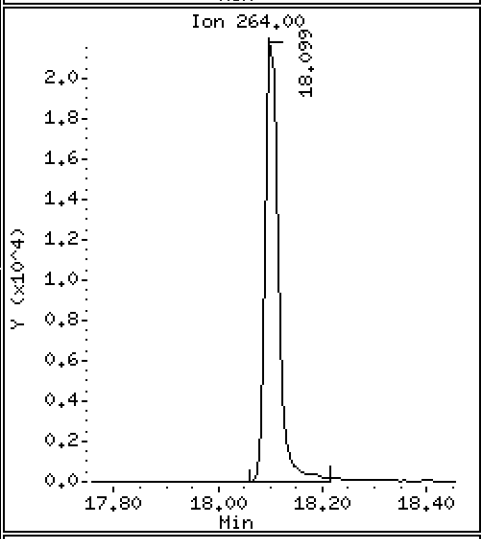
58 Pentachlorophenol

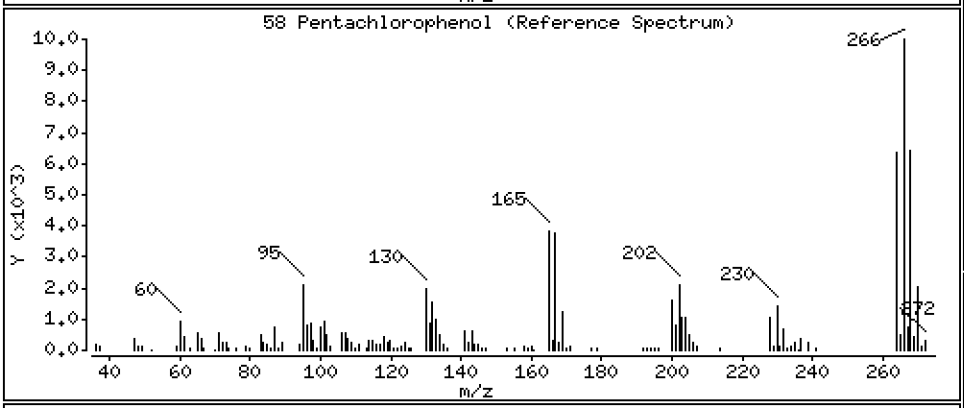
Concentration: 3.796 ug/mL

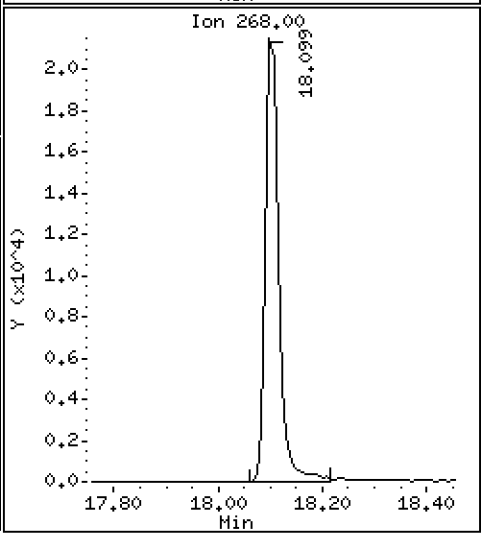


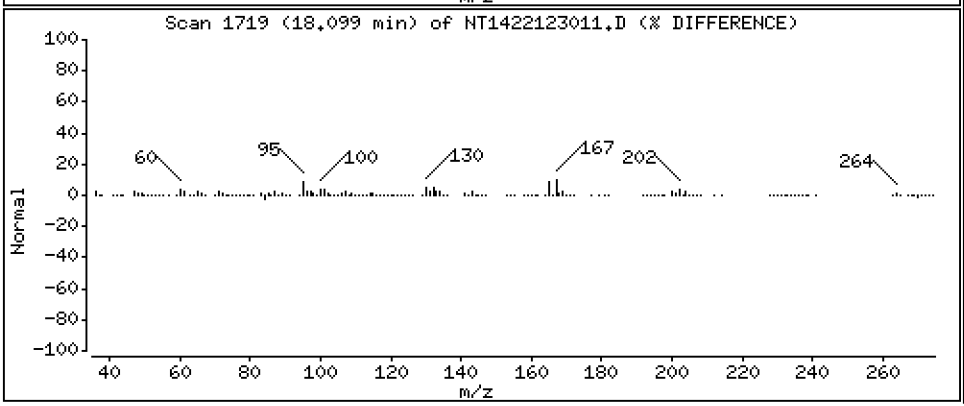












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

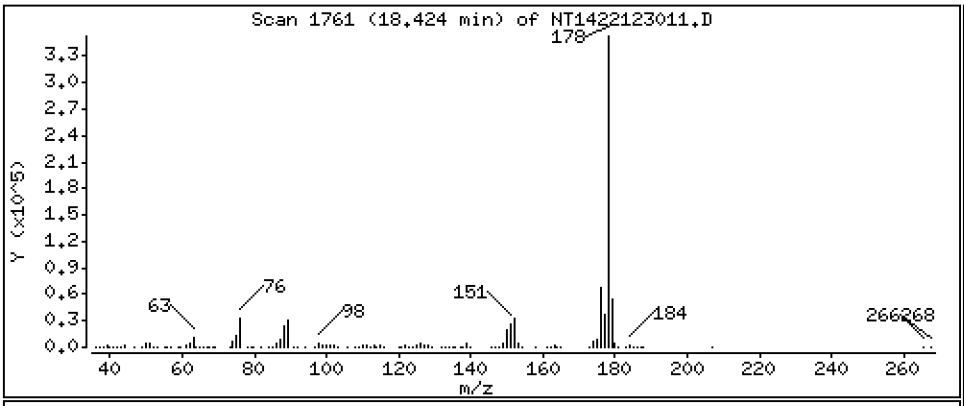
Operator: VTS

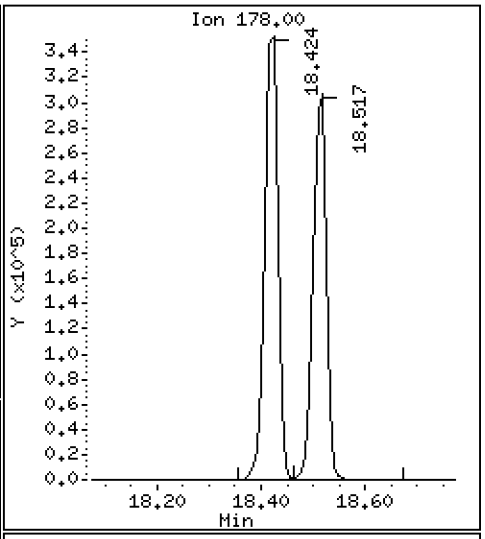
Column phase: ZB-5msi

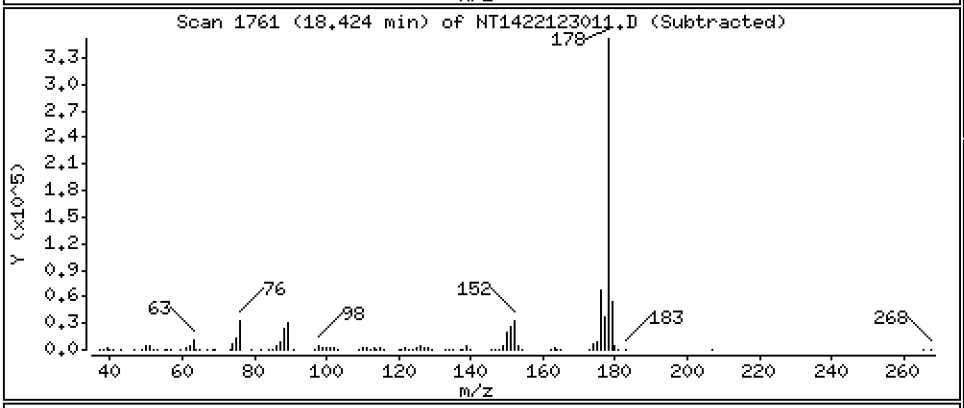
Column diameter: 0.25

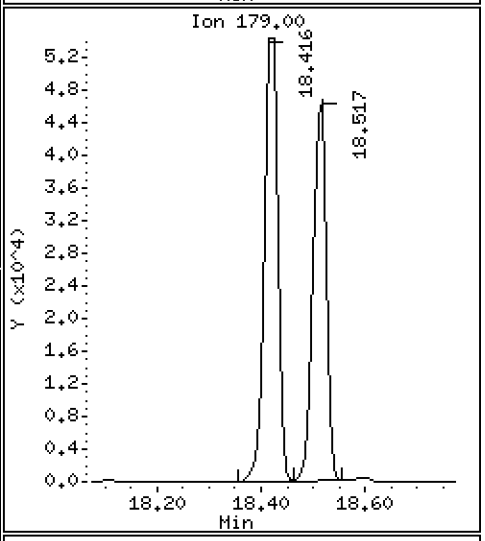
60 Phenanthrene

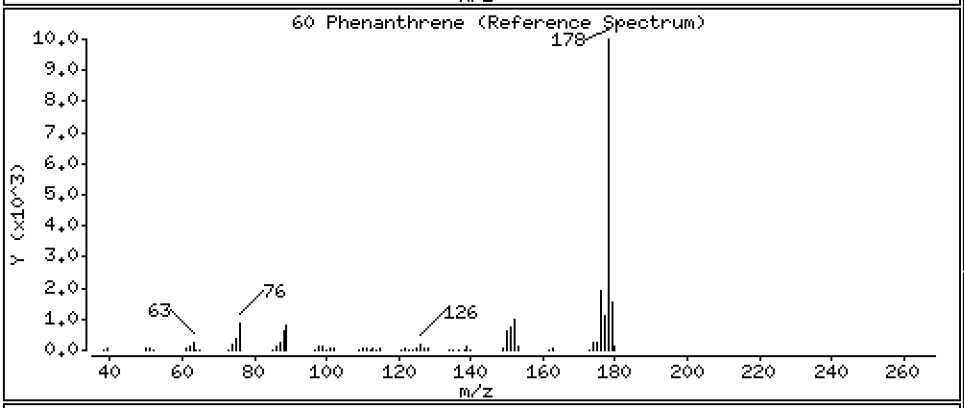
Concentration: 4.767 ug/mL

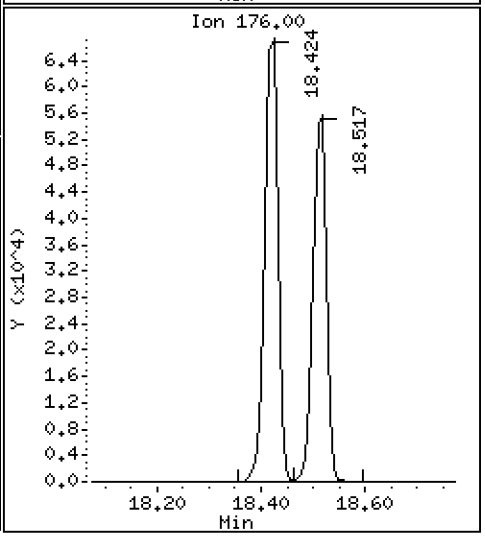


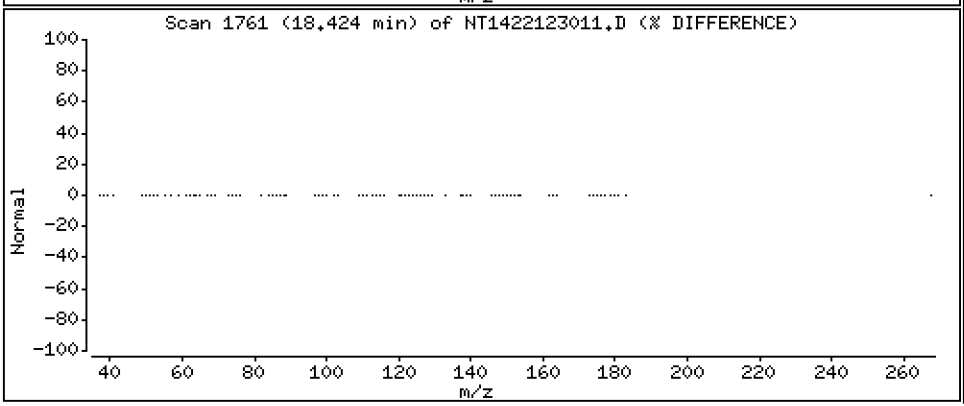












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

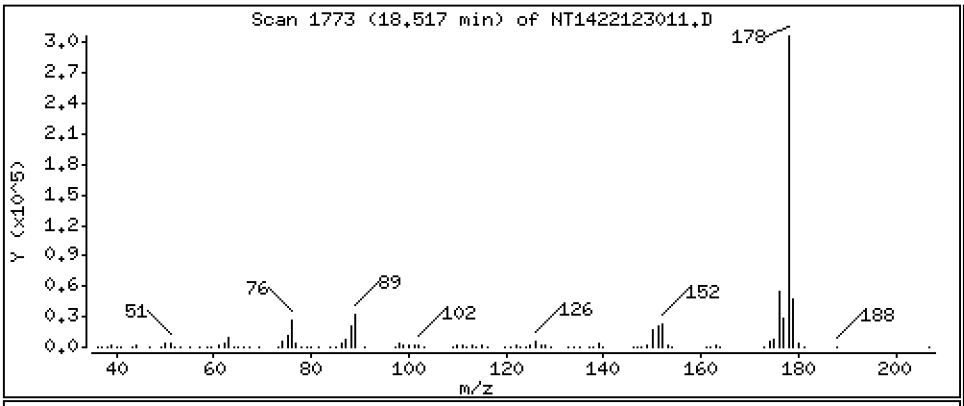
Operator: VTS

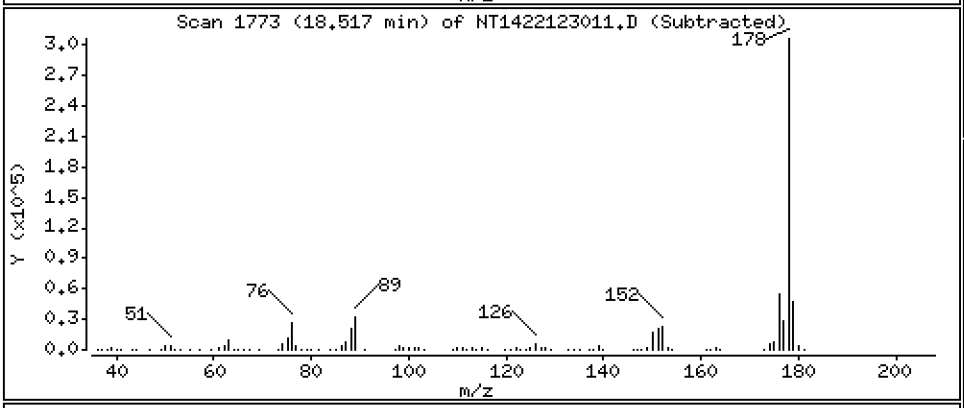
Column phase: ZB-5msi

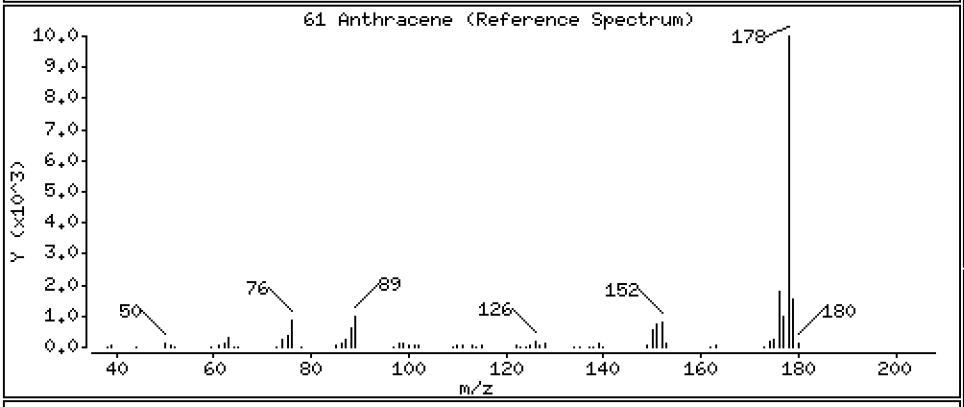
Column diameter: 0.25

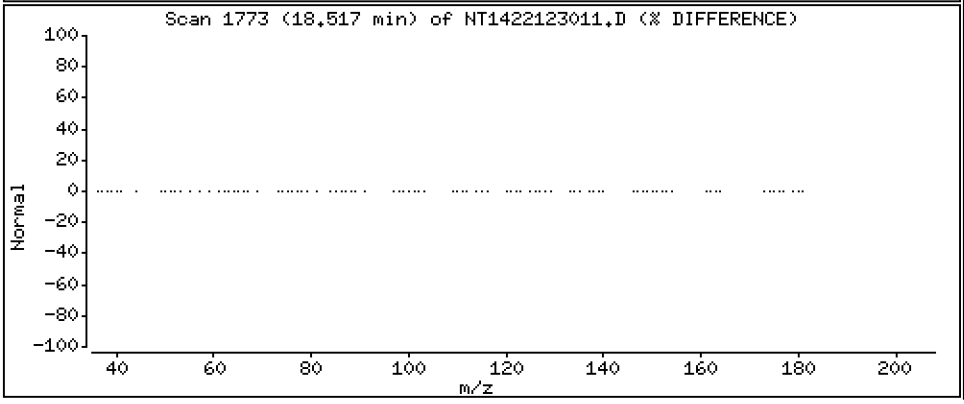
61 Anthracene

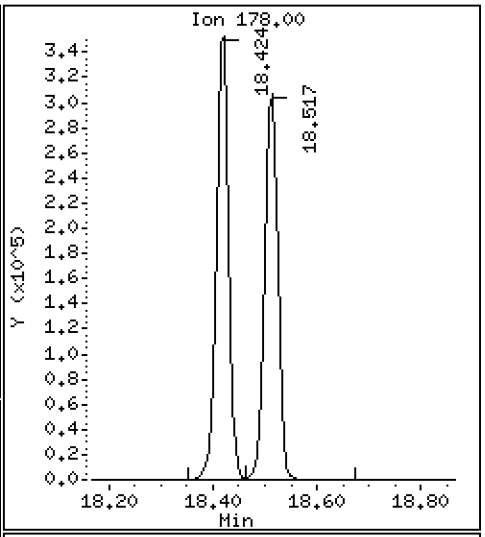
Concentration: 4.373 ug/mL

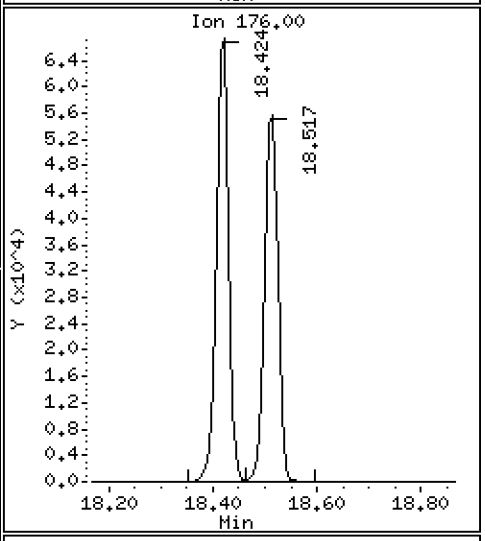


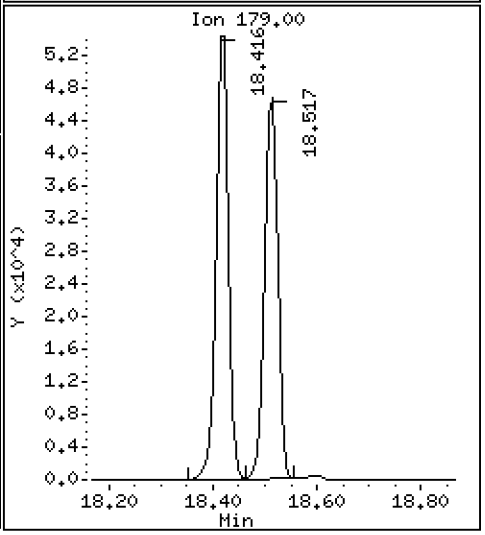












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

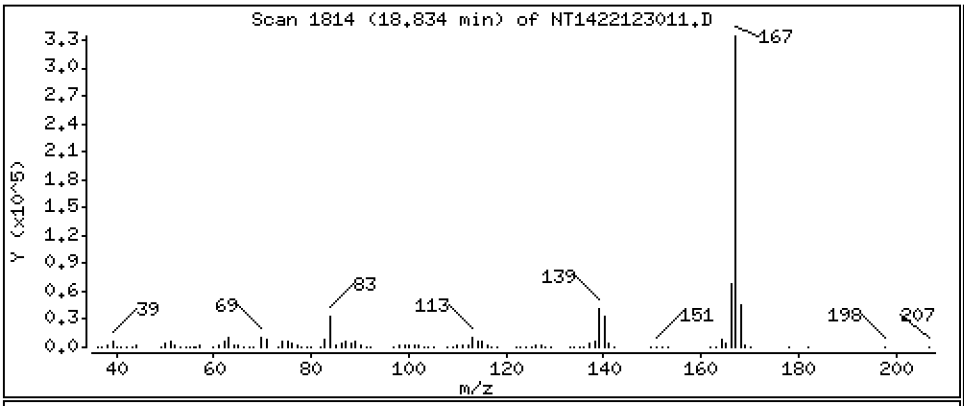
Operator: VTS

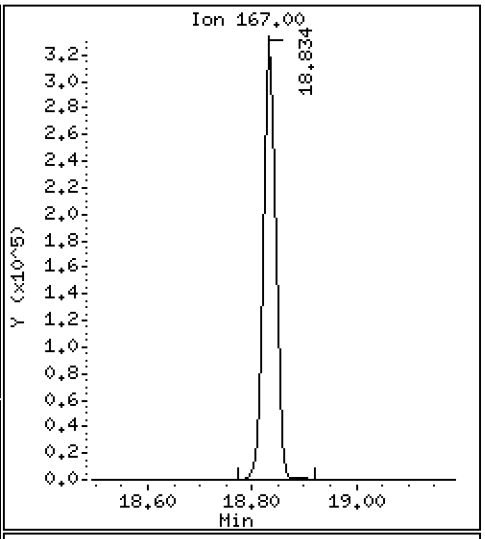
Column phase: ZB-5msi

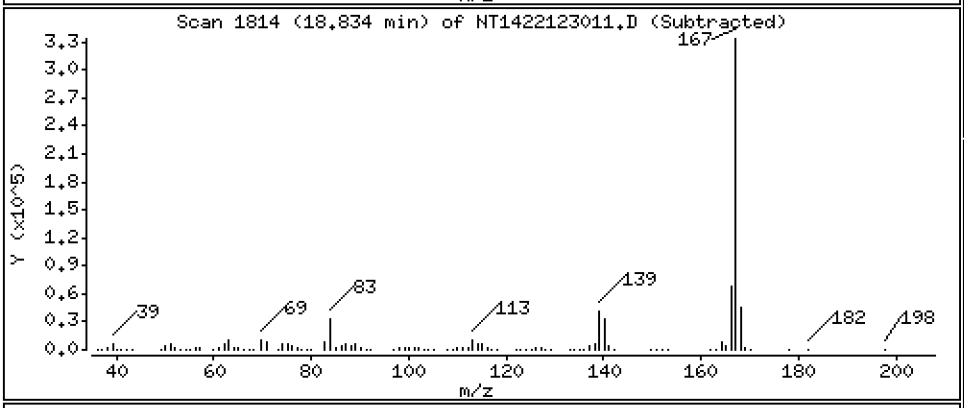
Column diameter: 0.25

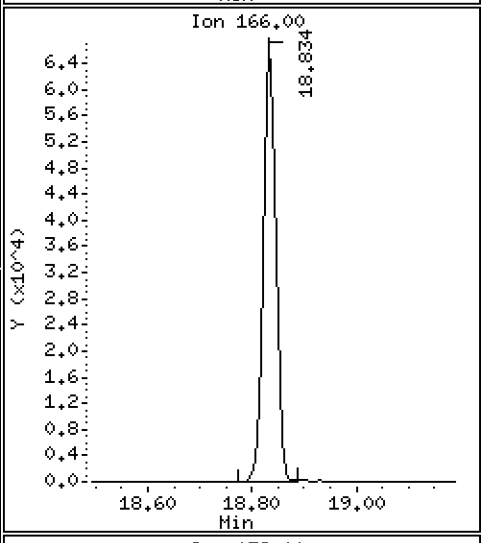
62 Carbazole

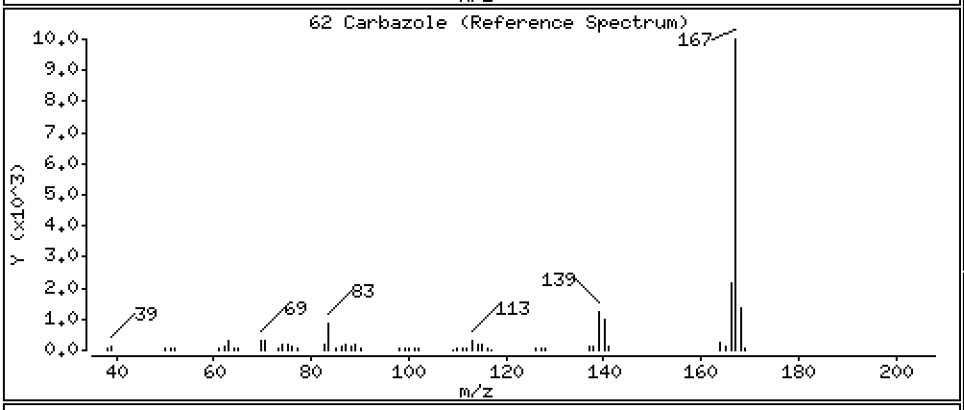
Concentration: 4.620 ug/mL

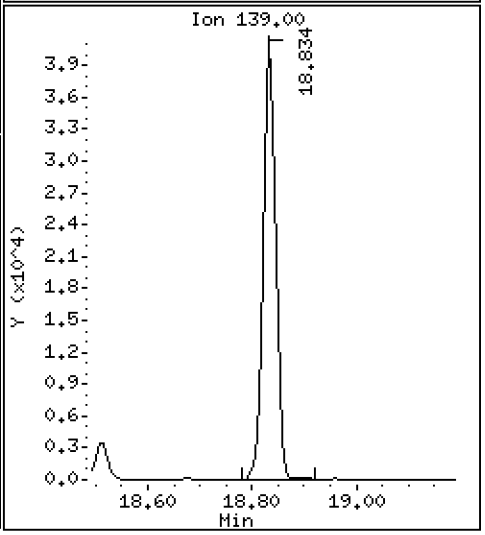


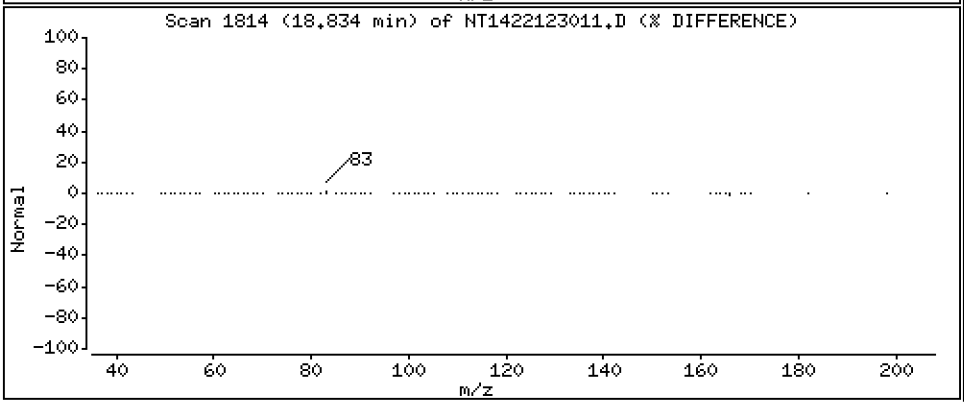












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

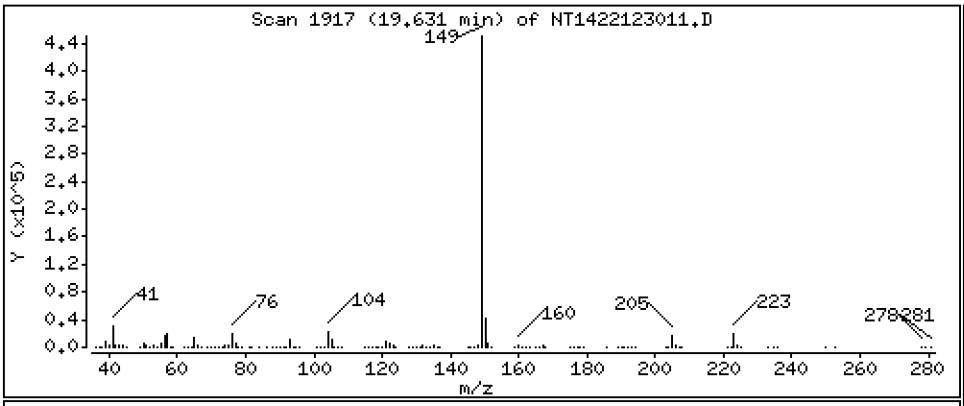
Operator: VTS

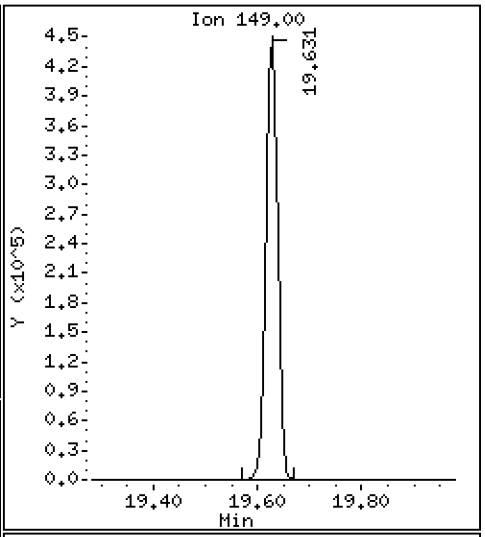
Column phase: ZB-5msi

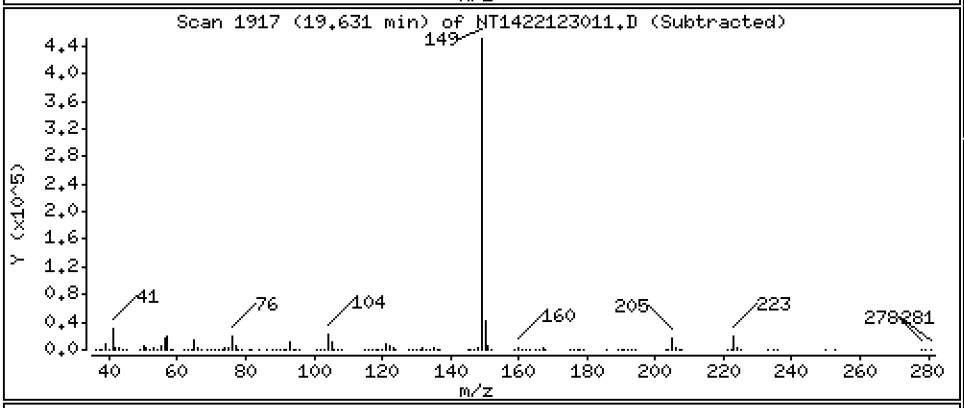
Column diameter: 0.25

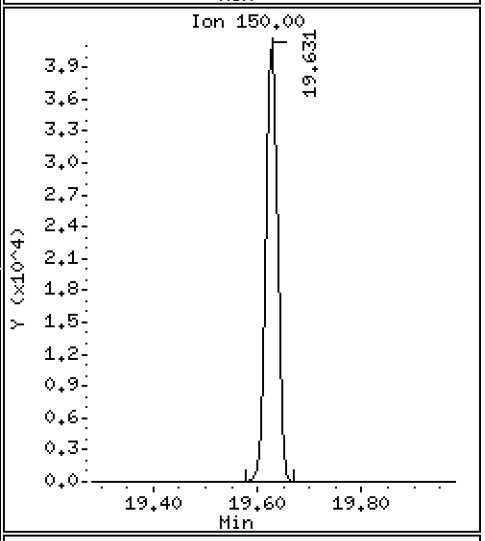
63 Di-n-butylphthalate

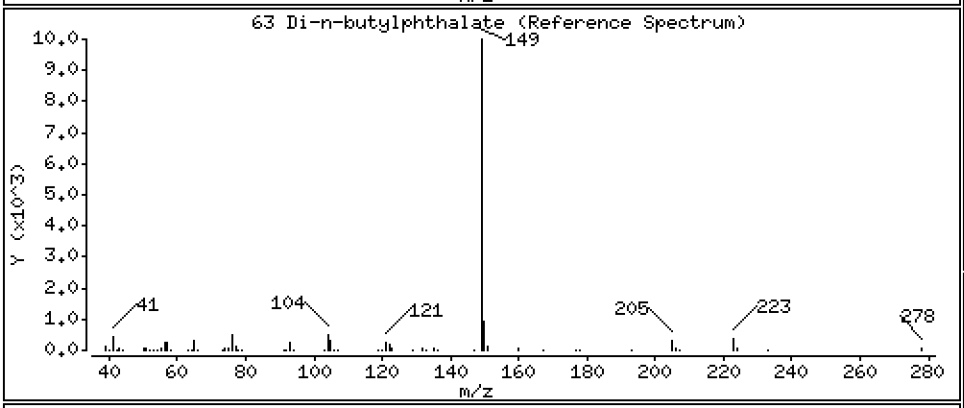
Concentration: 4.931 ug/mL

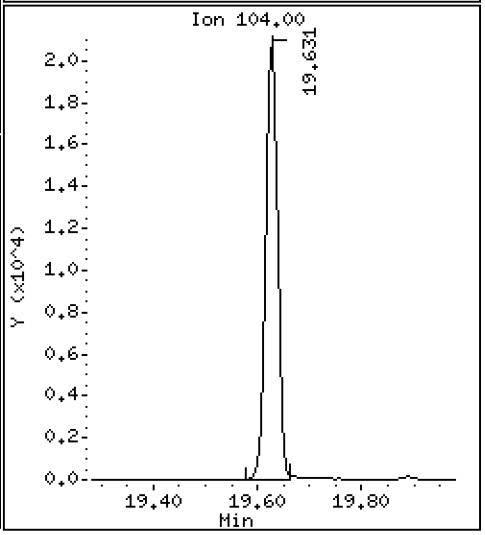


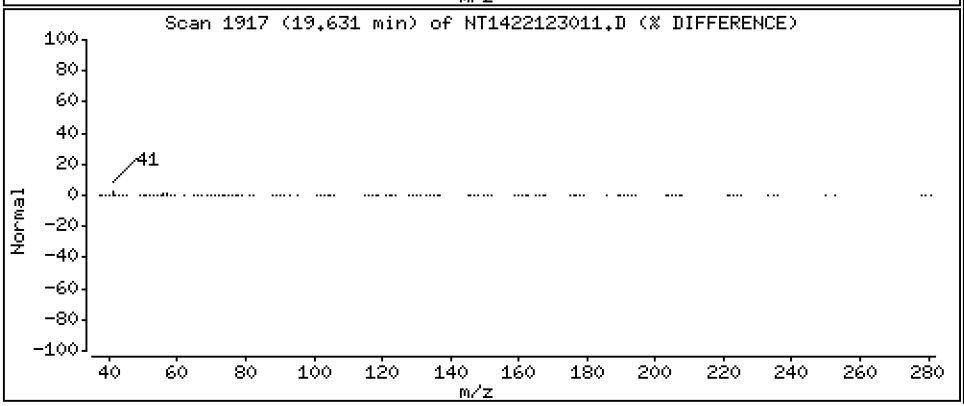












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

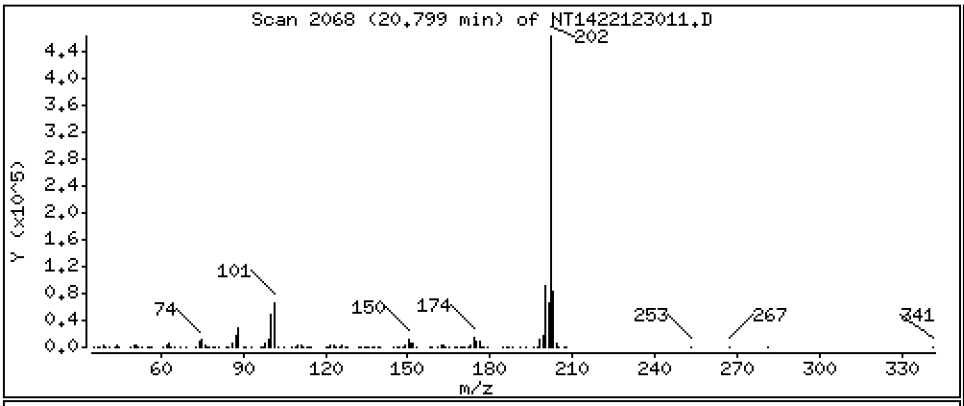
Operator: VTS

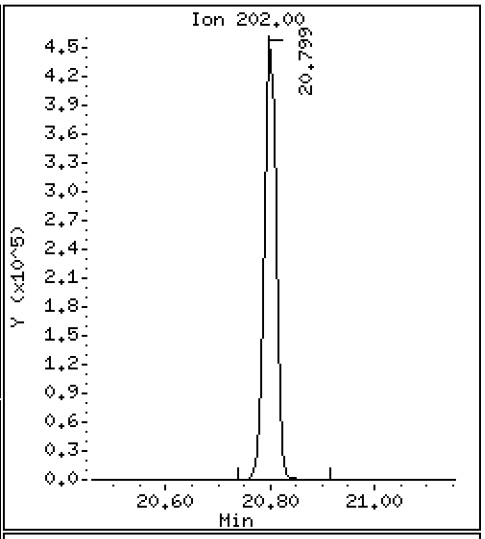
Column phase: ZB-5msi

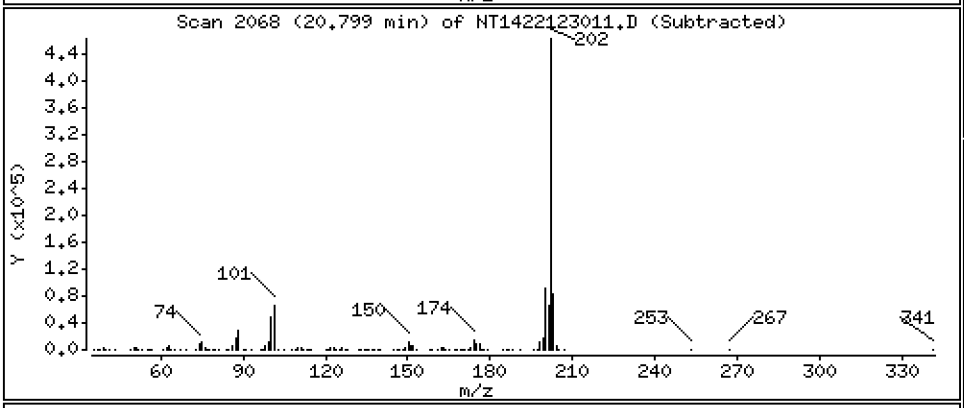
Column diameter: 0.25

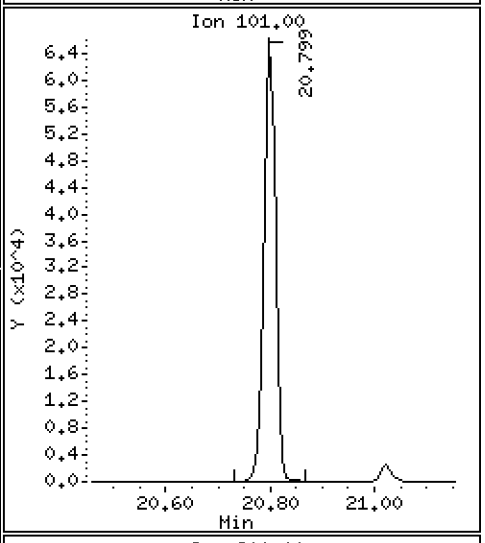
64 Fluoranthene

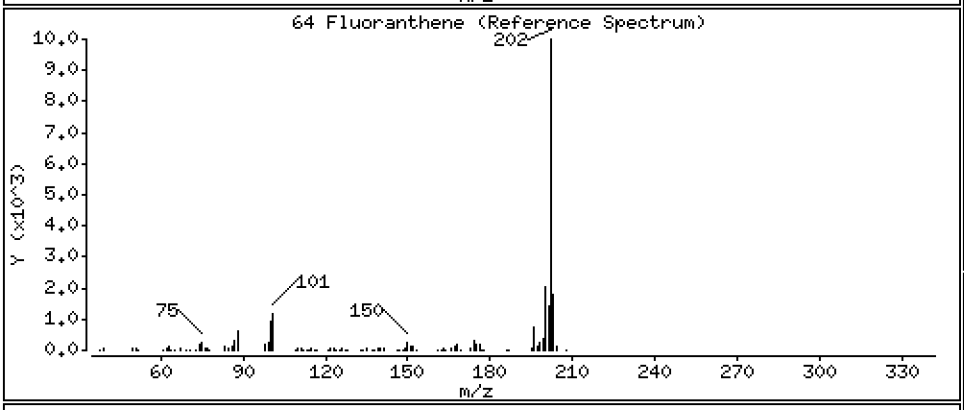
Concentration: 5.090 ug/mL

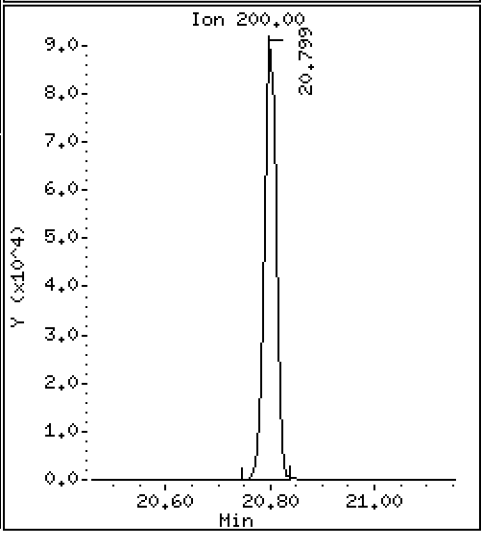


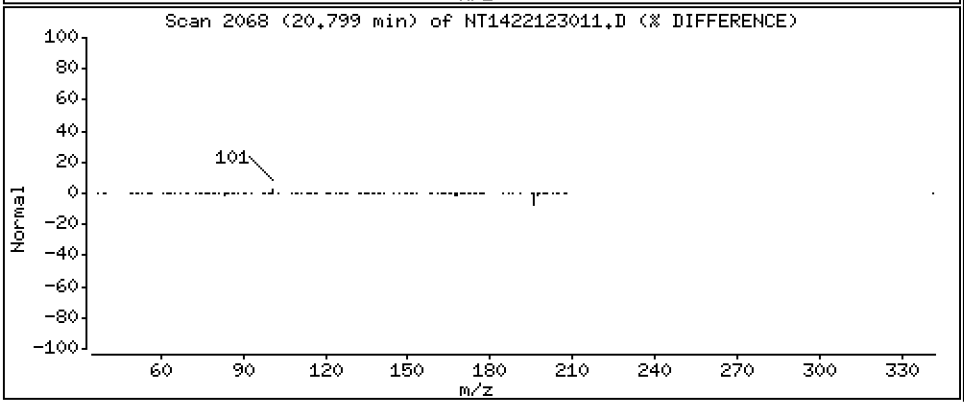












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

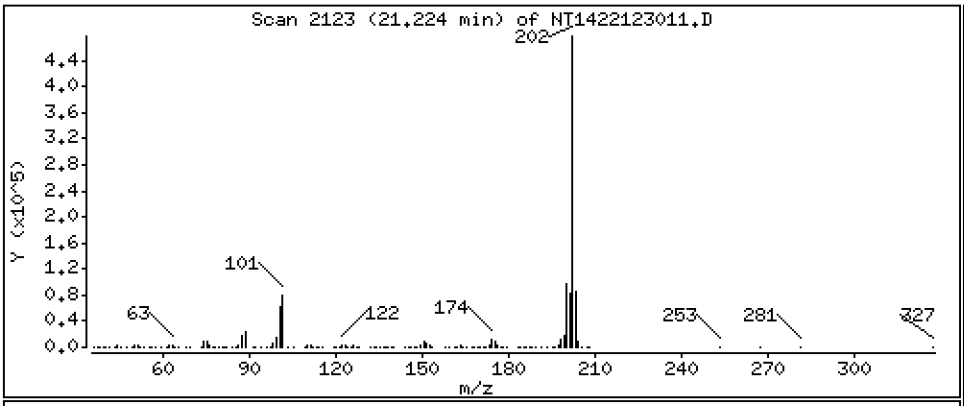
Operator: VTS

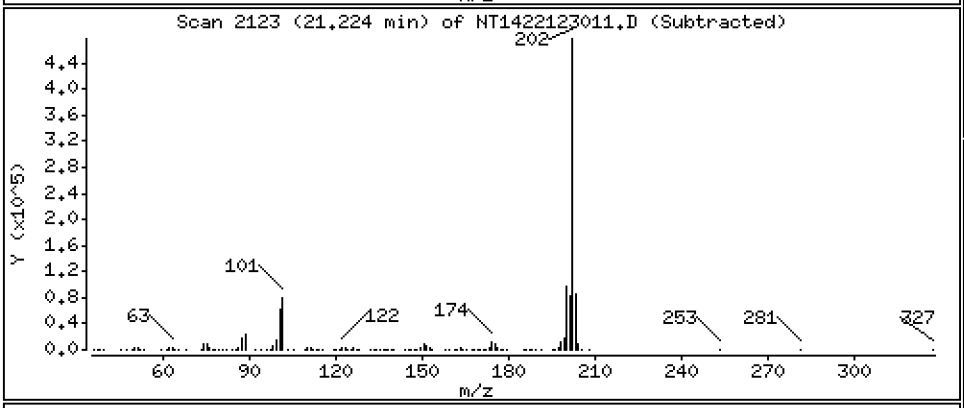
Column phase: ZB-5msi

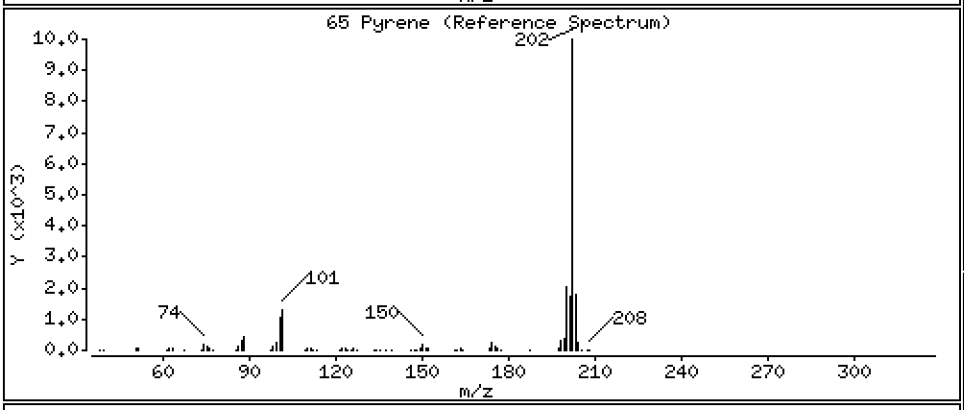
Column diameter: 0.25

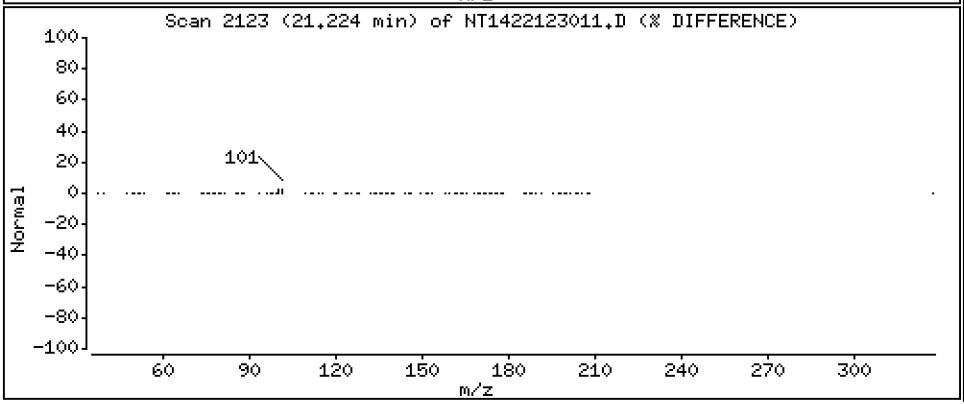
65 Pyrene

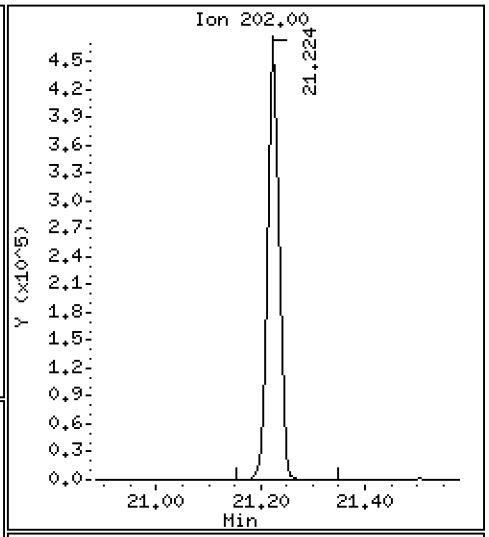
Concentration: 5.022 ug/mL

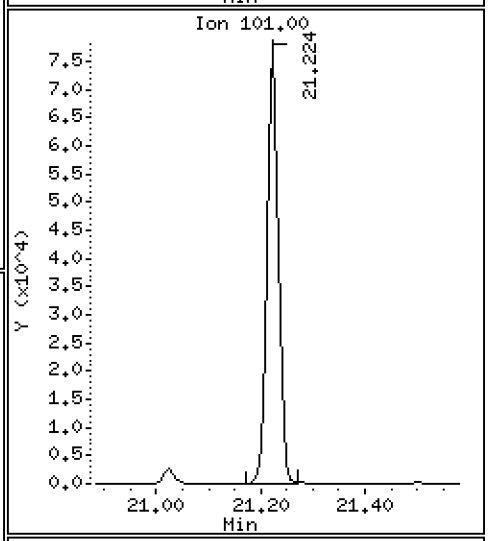


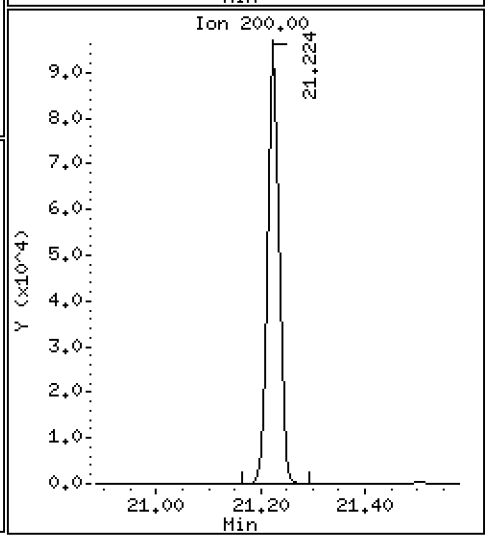












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

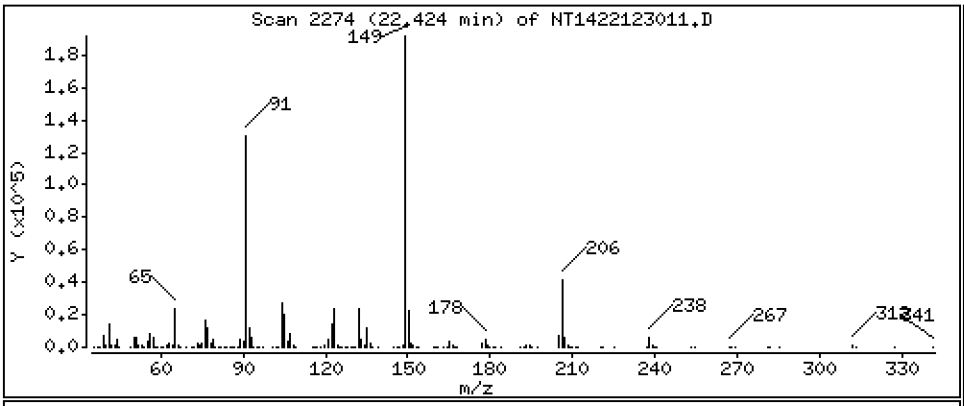
Operator: VTS

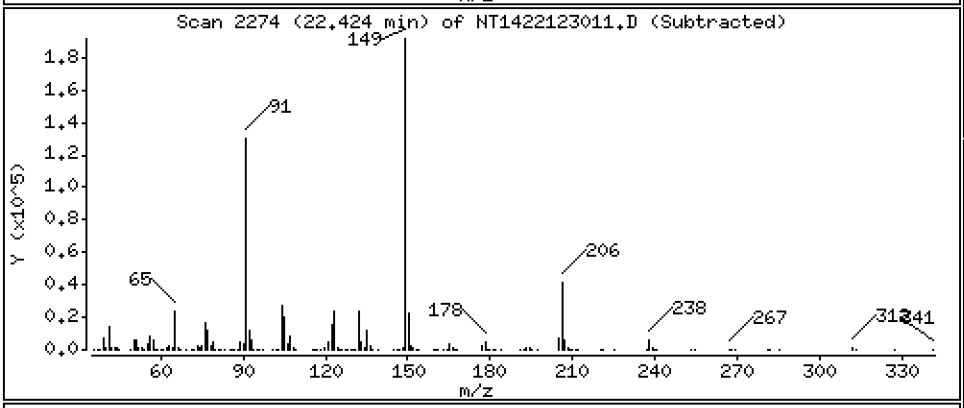
Column phase: ZB-5msi

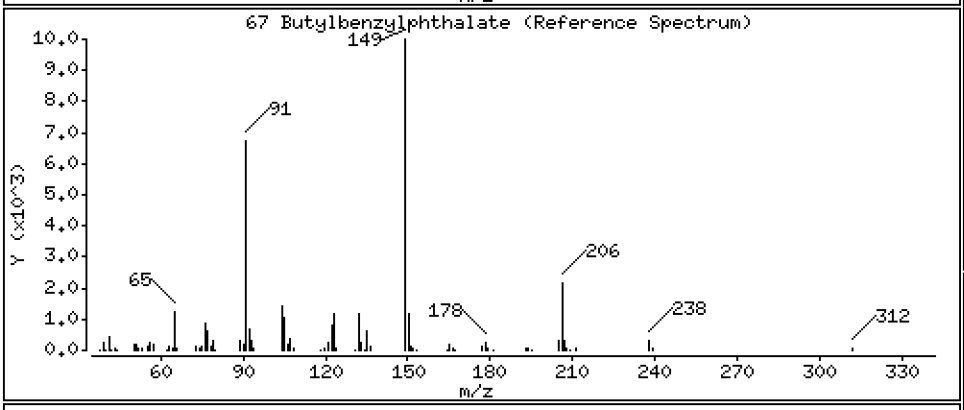
Column diameter: 0.25

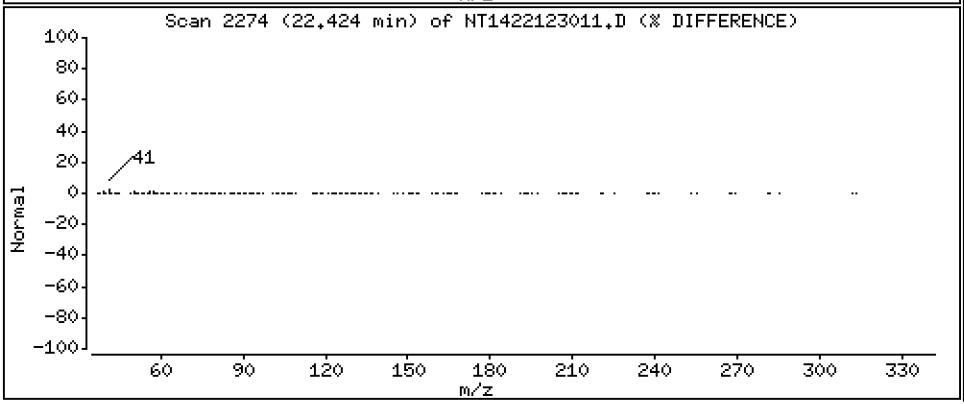
67 Butylbenzylphthalate

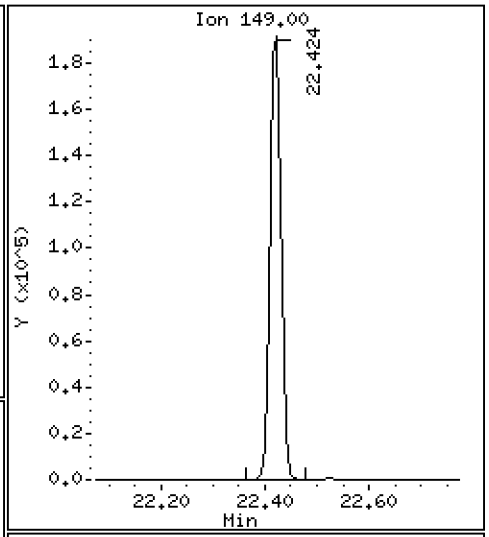
Concentration: 5.005 ug/mL

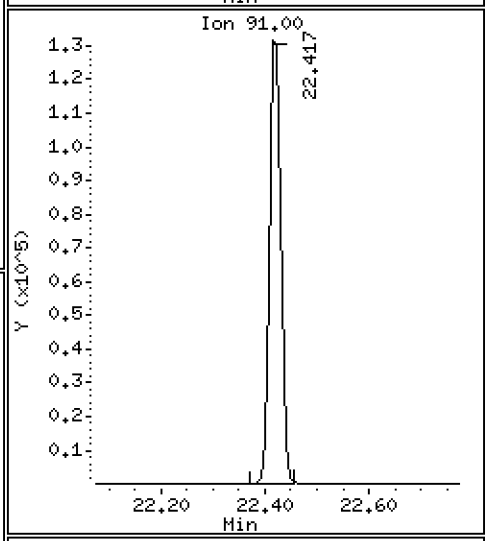


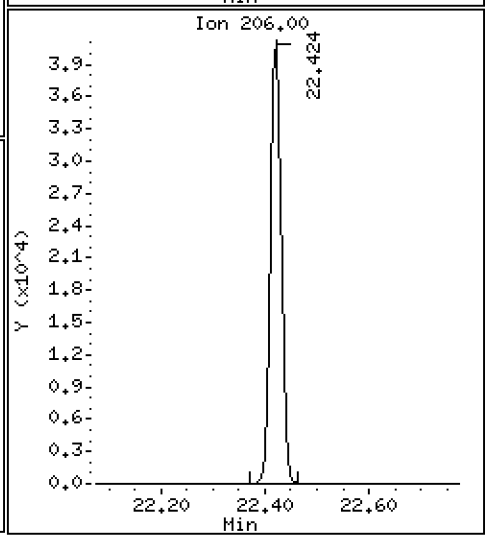












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

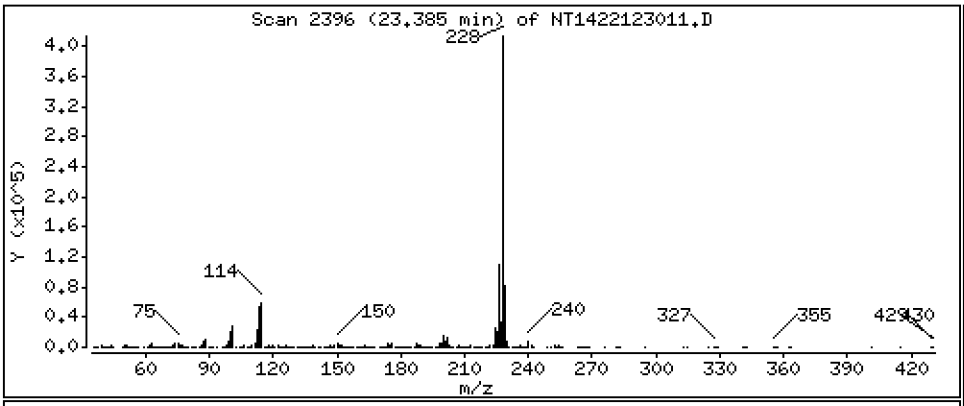
Operator: VTS

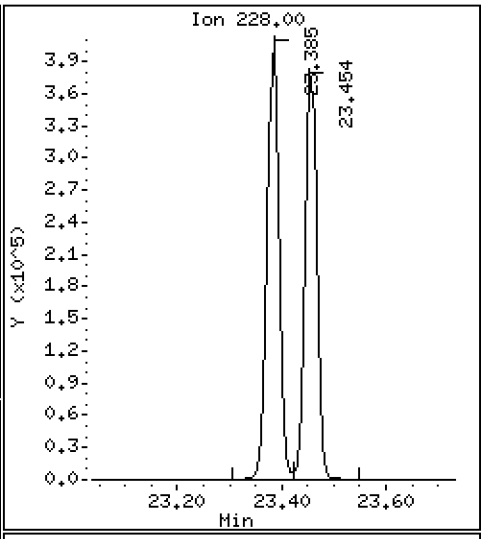
Column phase: ZB-5msi

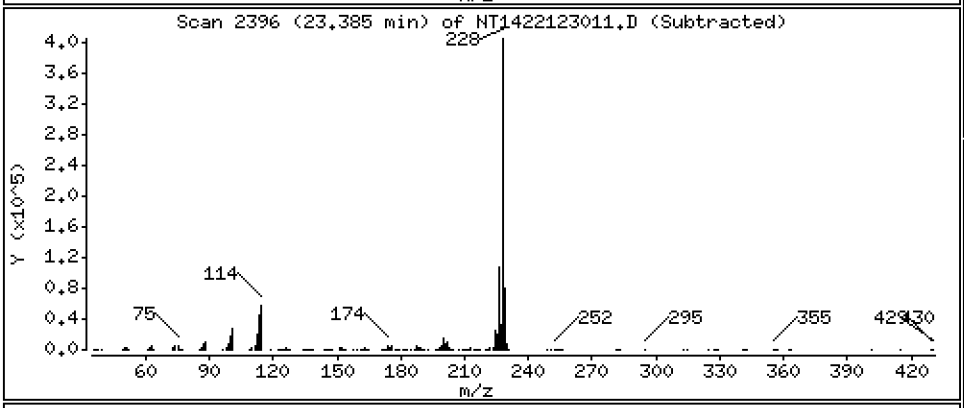
Column diameter: 0.25

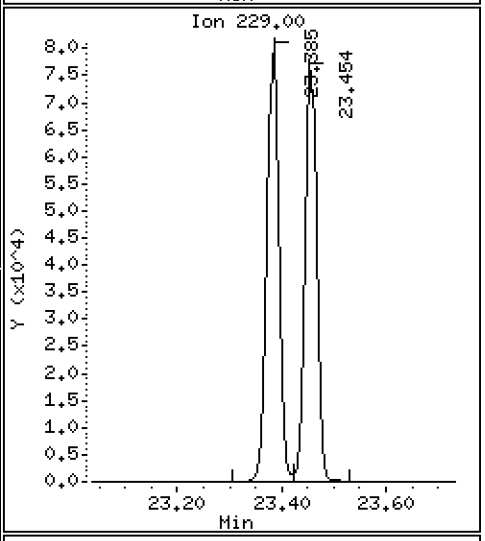
68 Benzo(a)anthracene

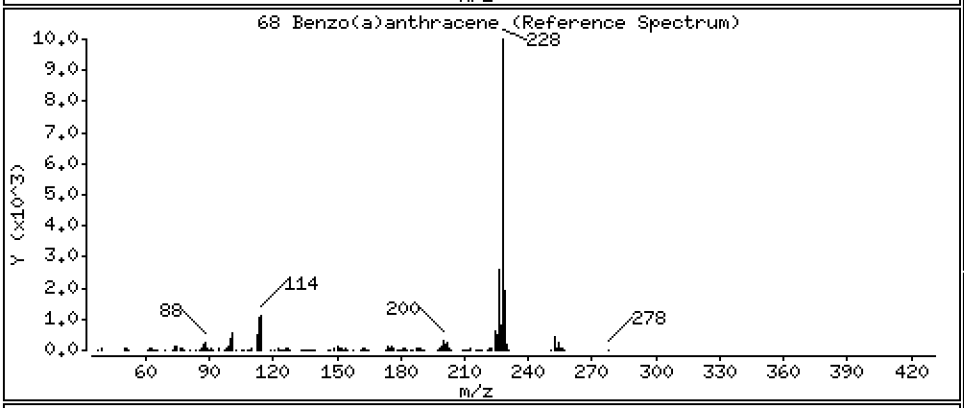
Concentration: 4.890 ug/mL

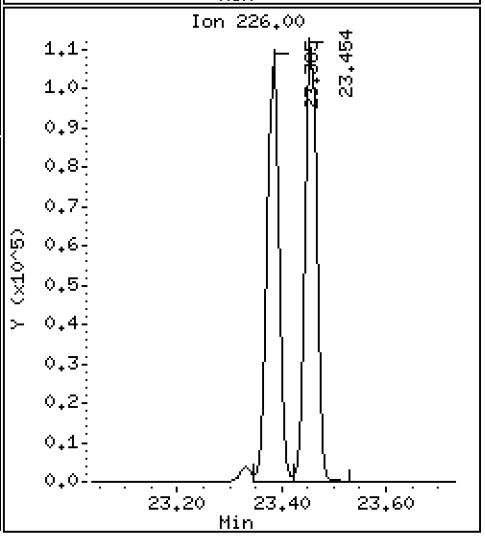


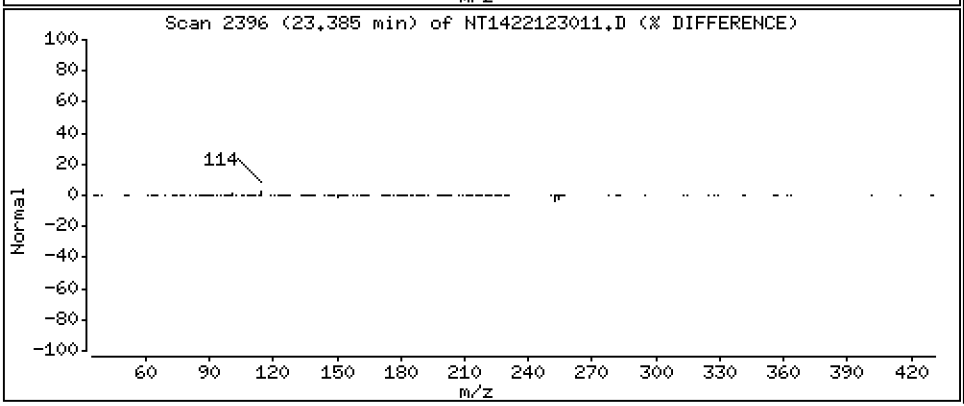












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

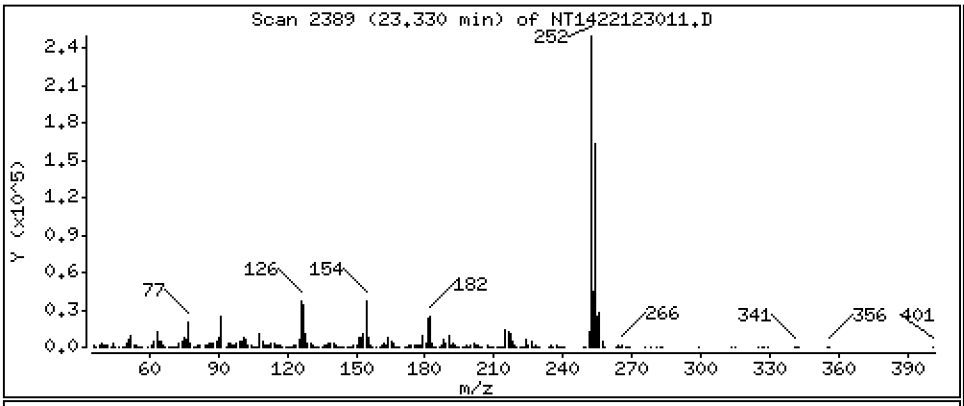
Operator: VTS

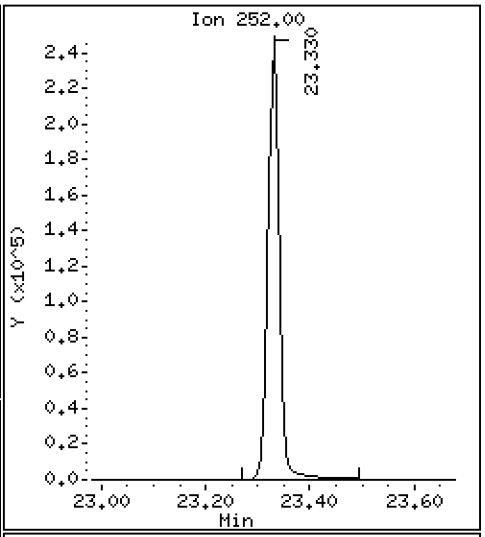
Column phase: ZB-5msi

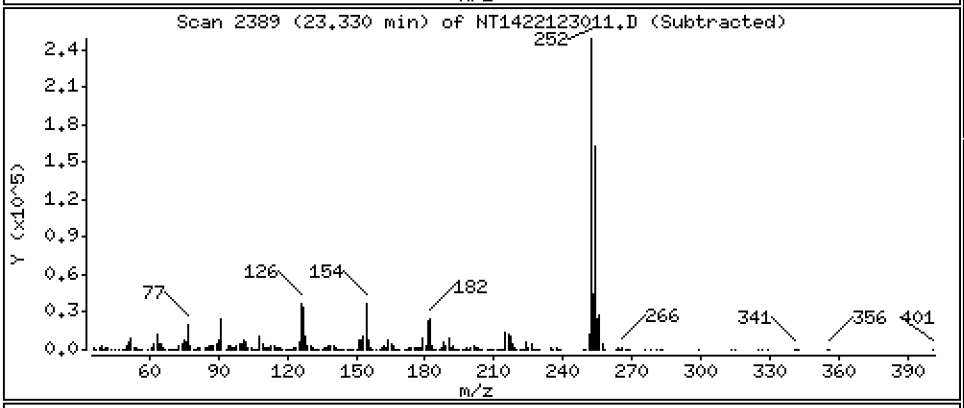
Column diameter: 0.25

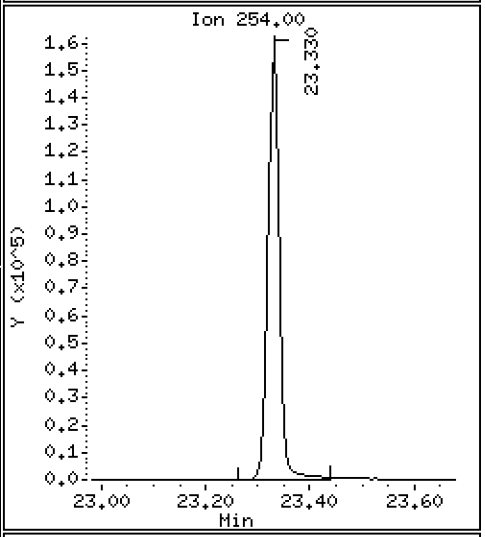
70 3,3'-Dichlorobenzidine

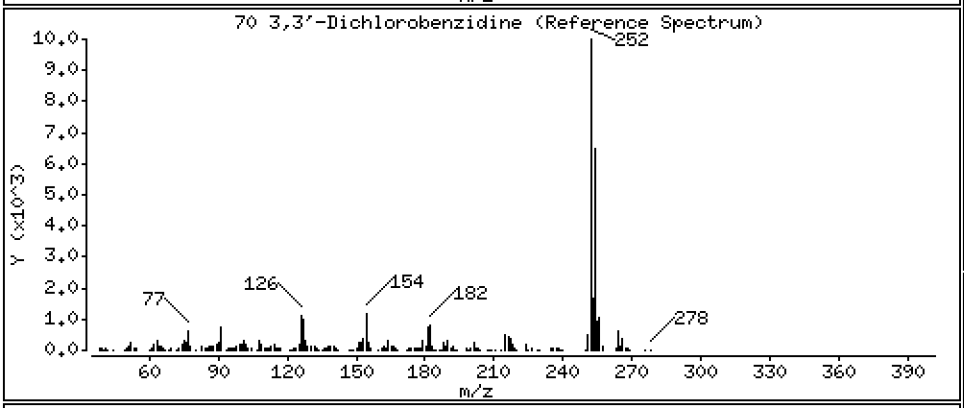
Concentration: 9.207 ug/mL

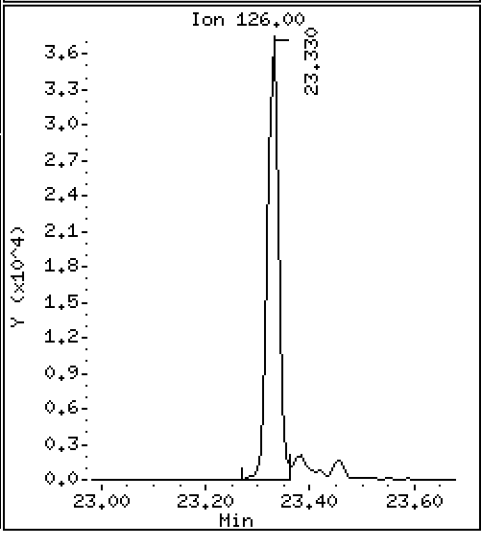


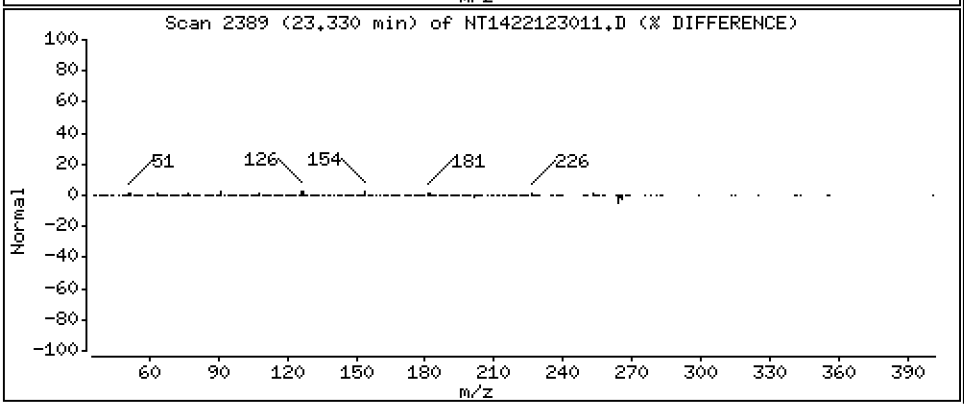












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

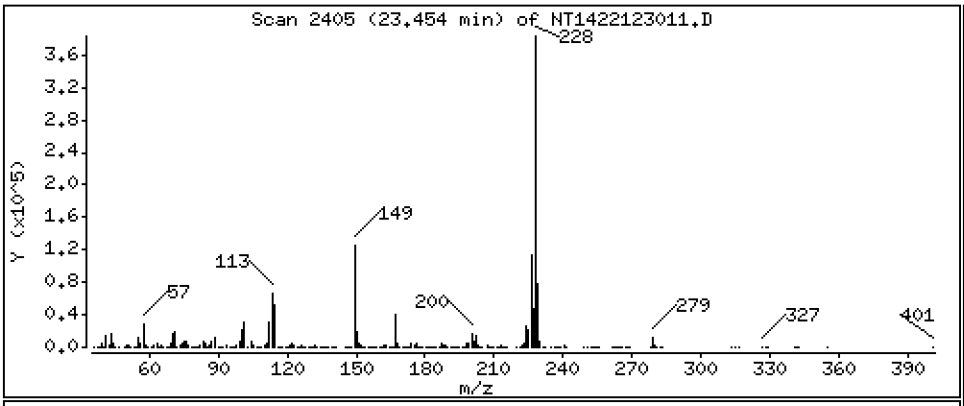
Operator: VTS

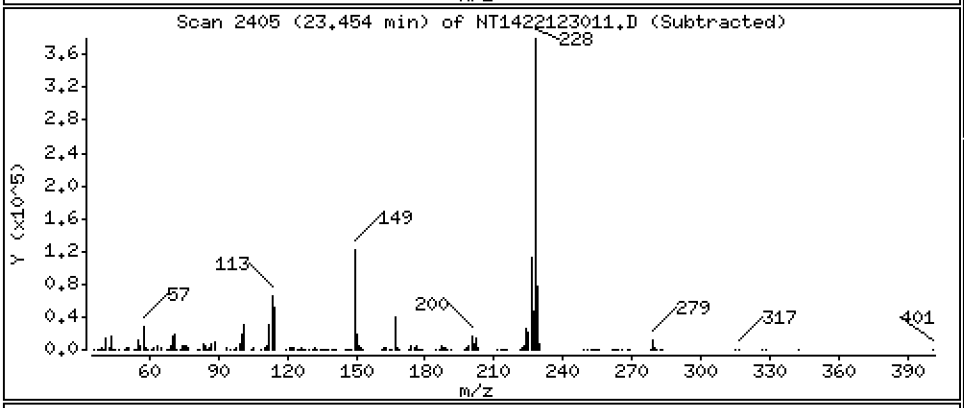
Column phase: ZB-5msi

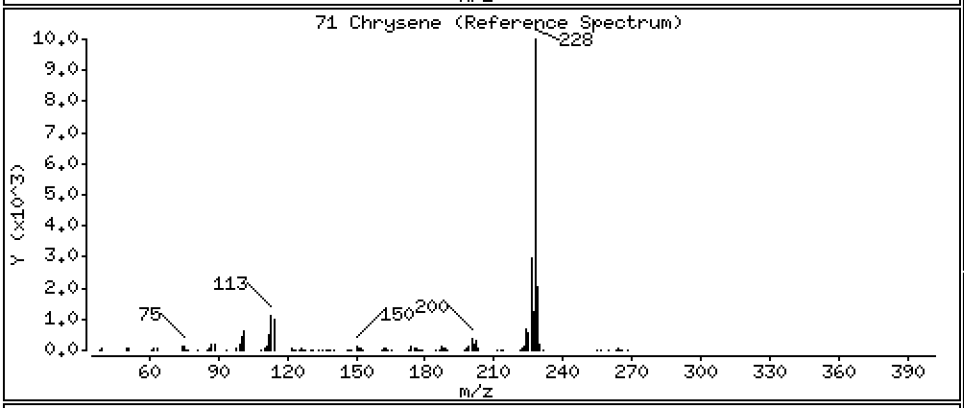
Column diameter: 0.25

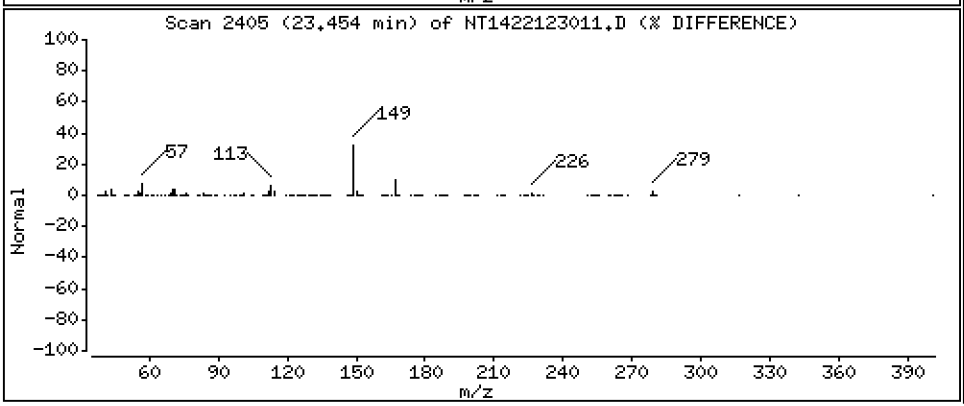
71 Chrysene

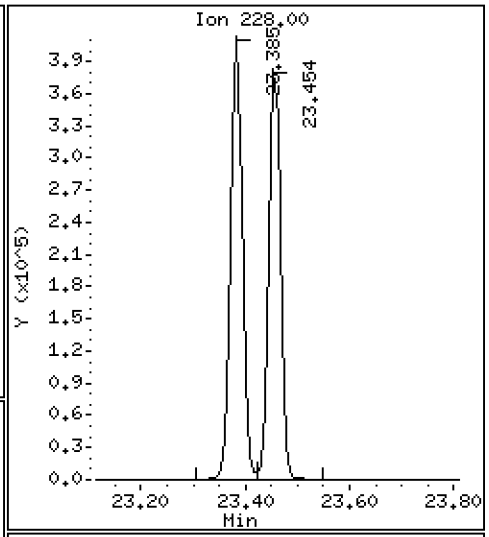
Concentration: 4.763 ug/mL

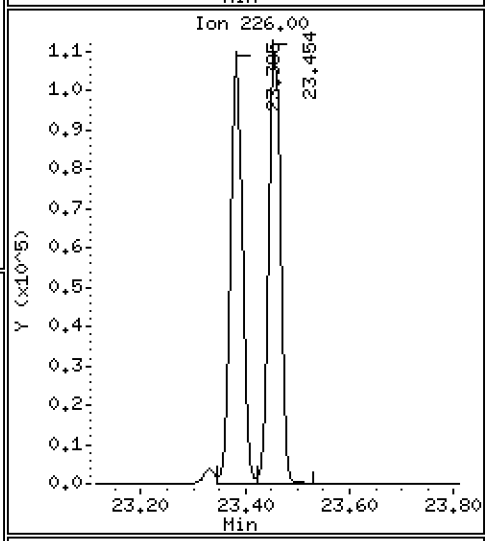


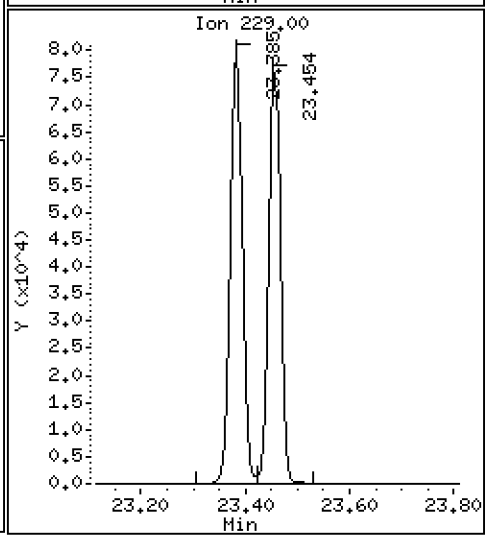












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

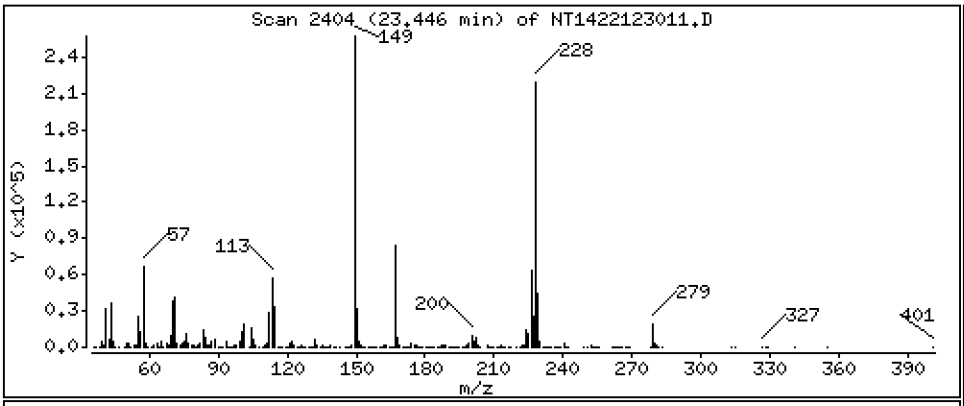
Operator: VTS

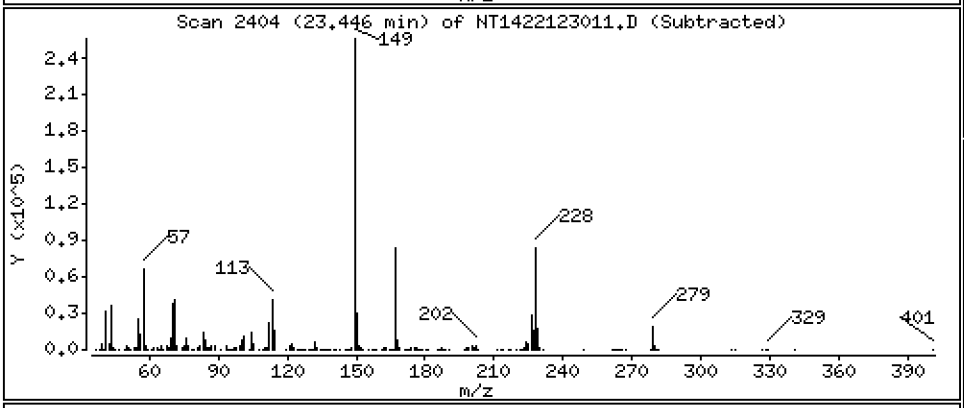
Column phase: ZB-5msi

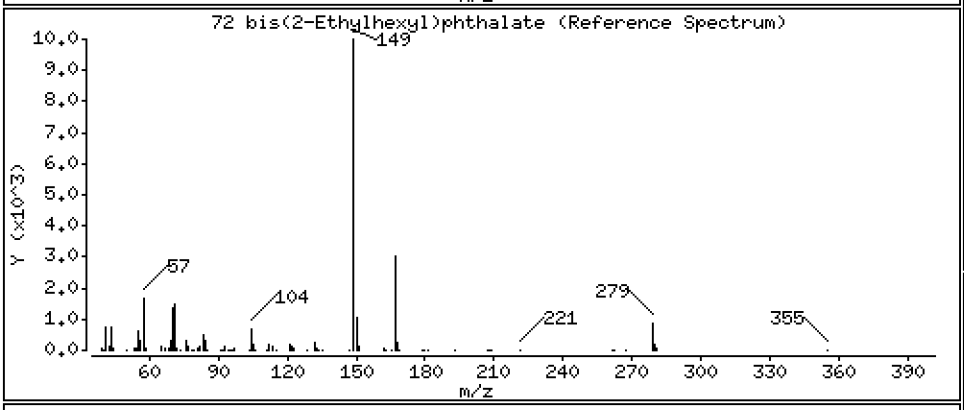
Column diameter: 0.25

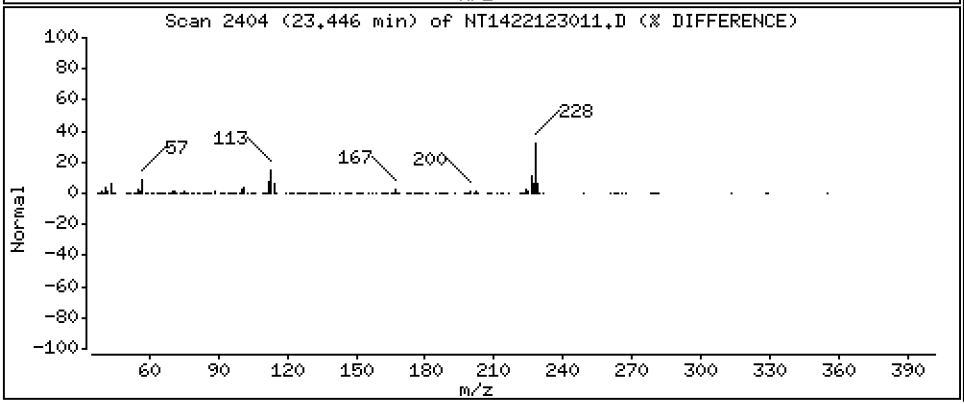
72 bis(2-Ethylhexyl)phthalate

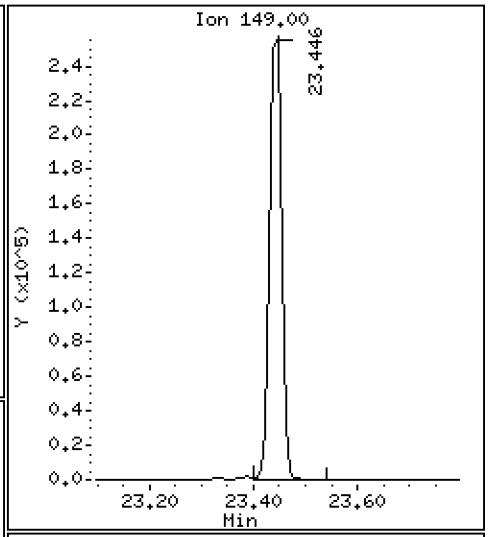
Concentration: 5.899 ug/mL

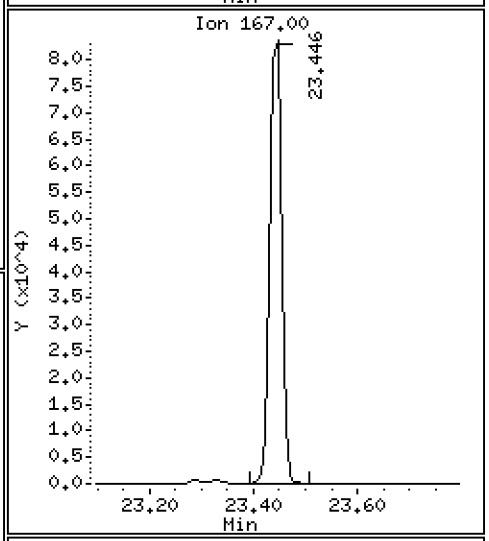


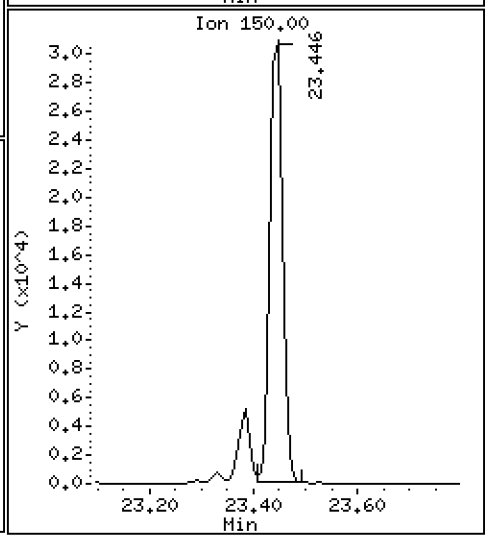












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

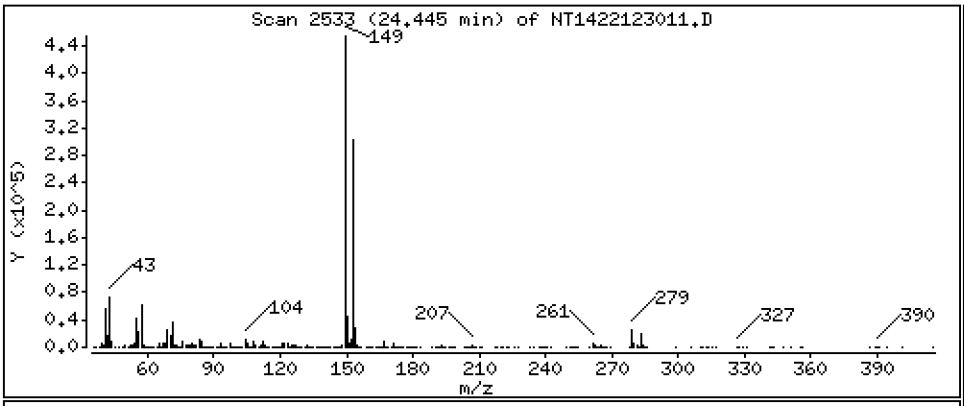
Operator: VTS

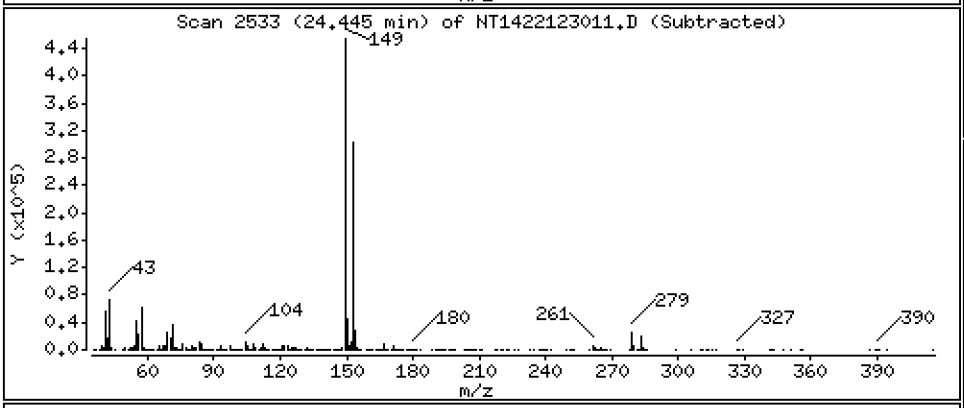
Column phase: ZB-5msi

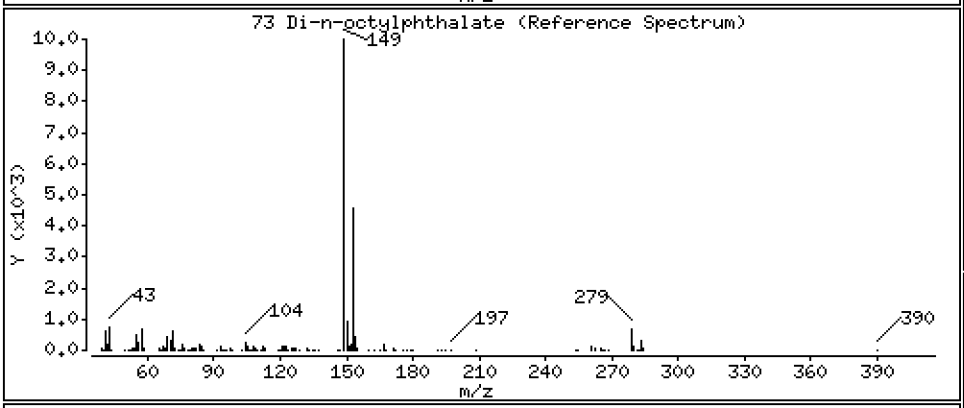
Column diameter: 0.25

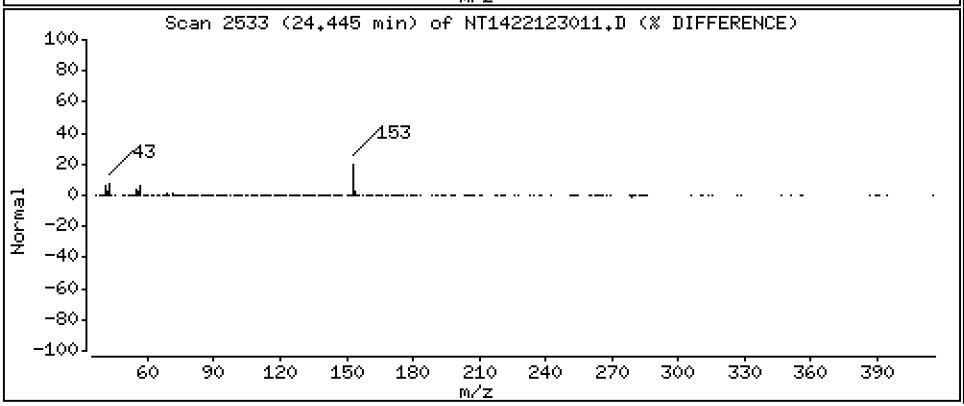
73 Di-n-octylphthalate

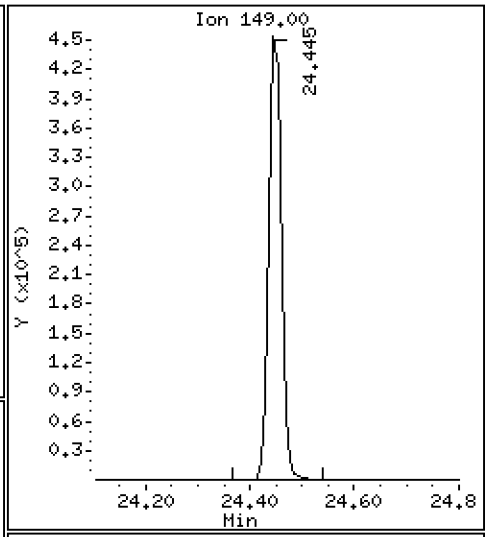
Concentration: 5.083 ug/mL

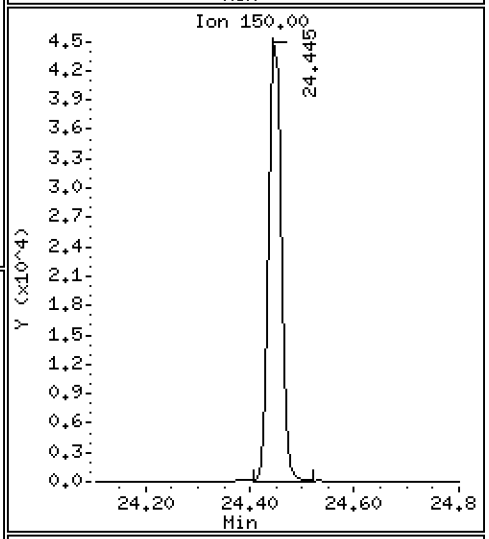


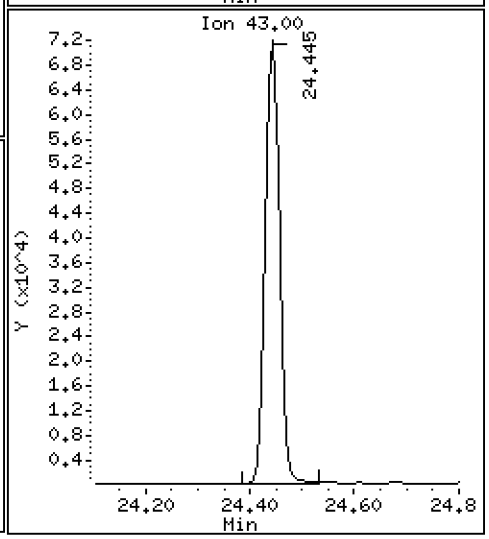












Date : 30-DEC-2022 13:31

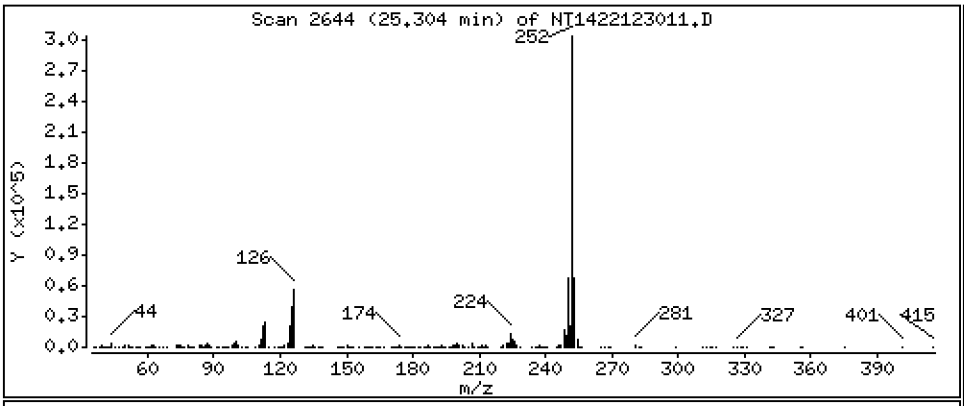
Client ID: Instrument: nt14.i

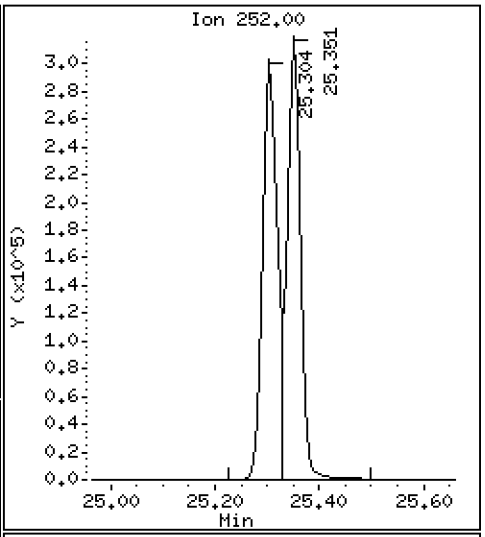
Sample Info: SKL0355-SCV1

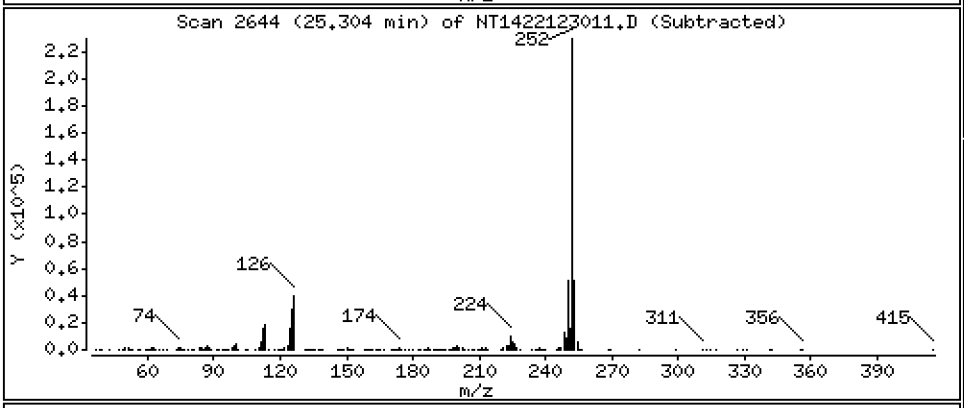
Operator: VTS

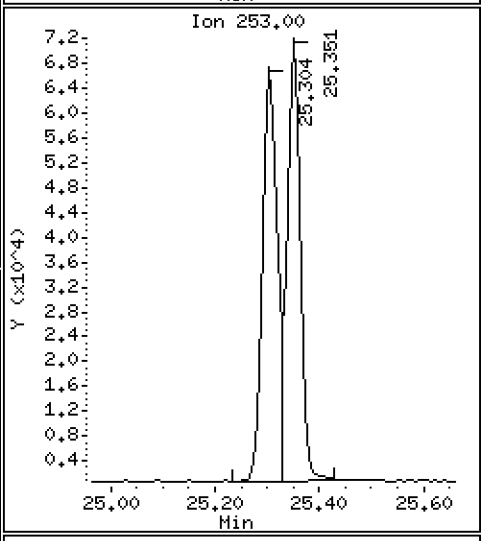
Column phase: ZB-5msi Column diameter: 0.25

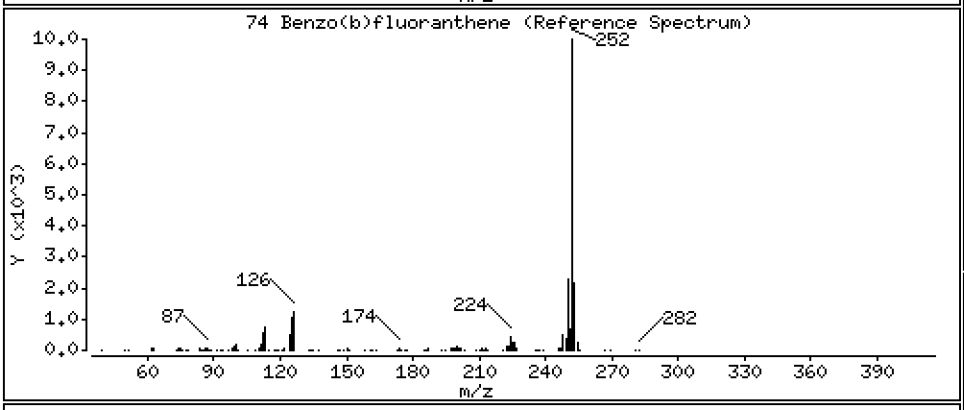
74 Benzo(b)fluoranthene Concentration: 4.893 ug/mL

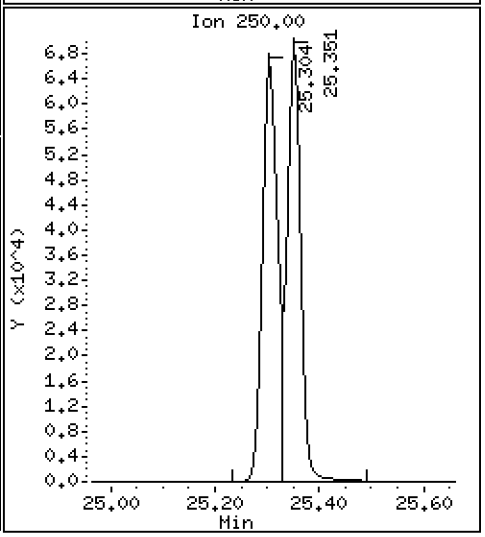


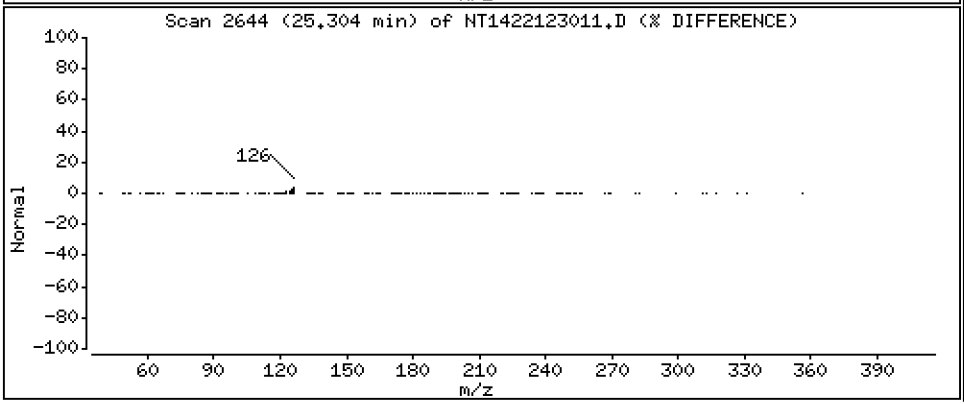












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

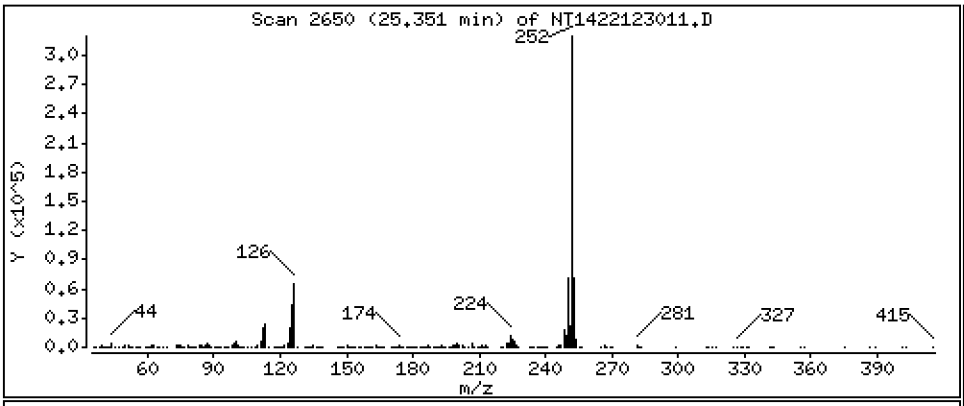
Operator: VTS

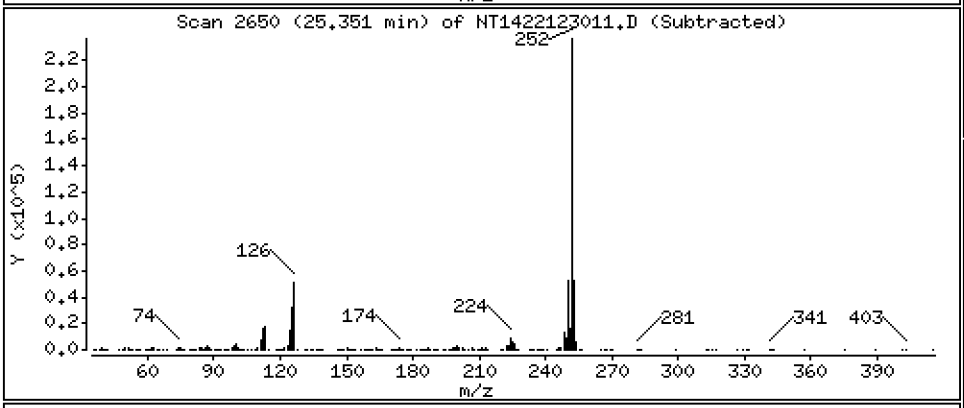
Column phase: ZB-5msi

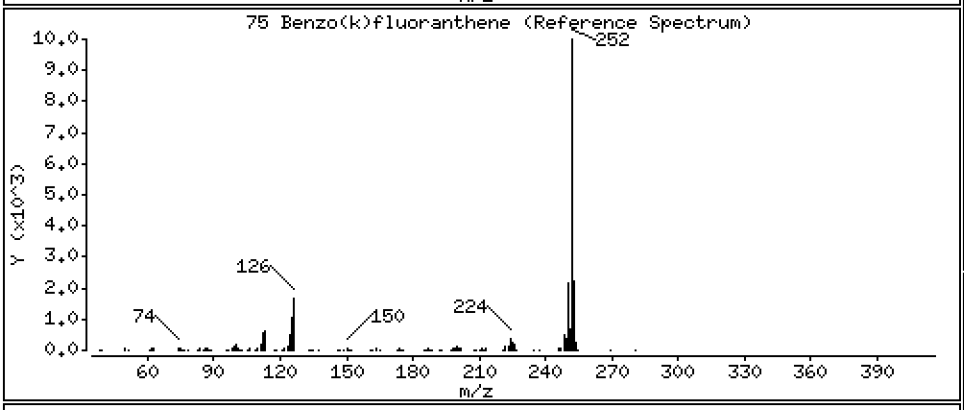
Column diameter: 0.25

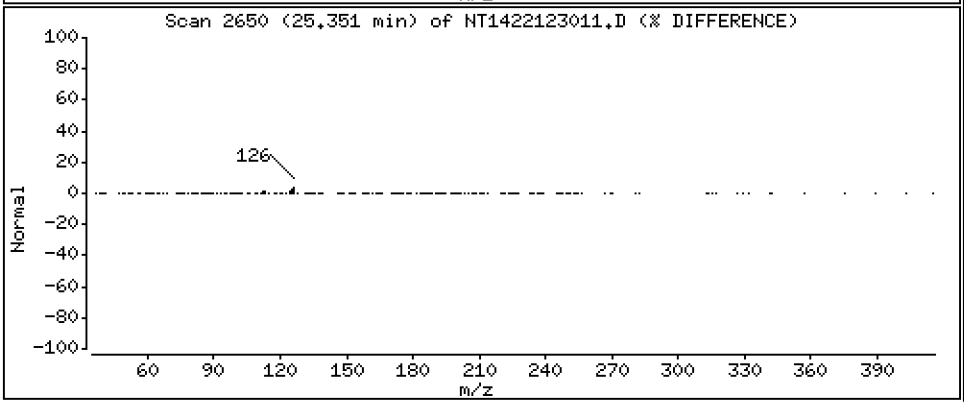
75 Benzo(k)fluoranthene

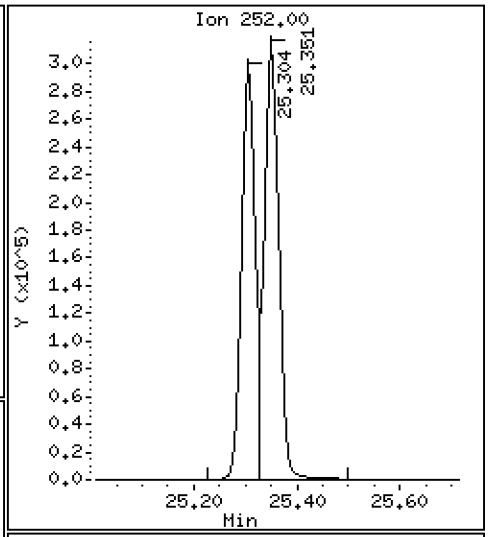
Concentration: 5.093 ug/mL

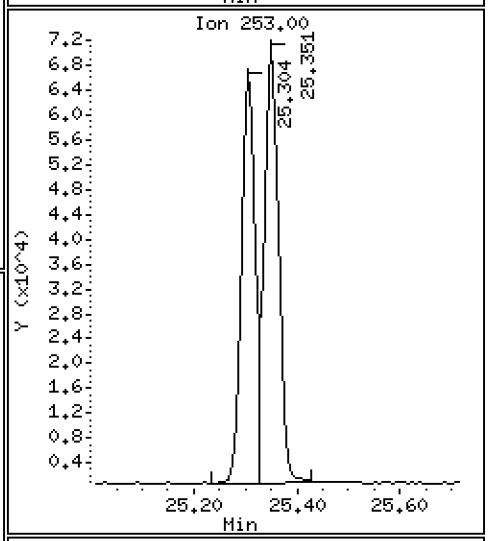


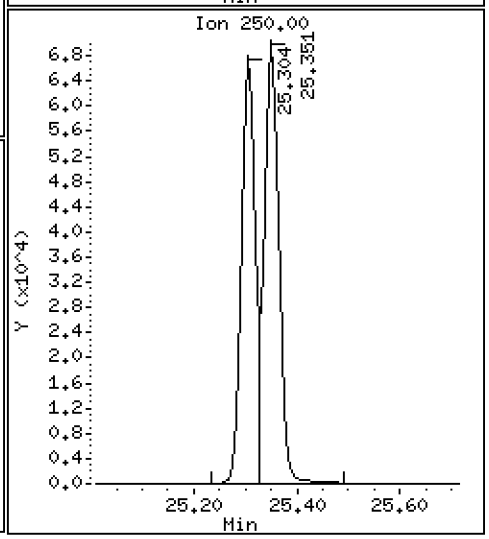












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

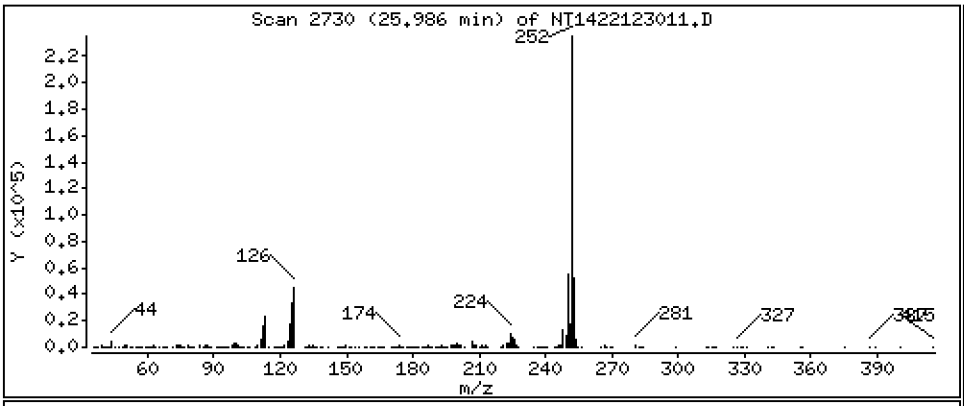
Operator: VTS

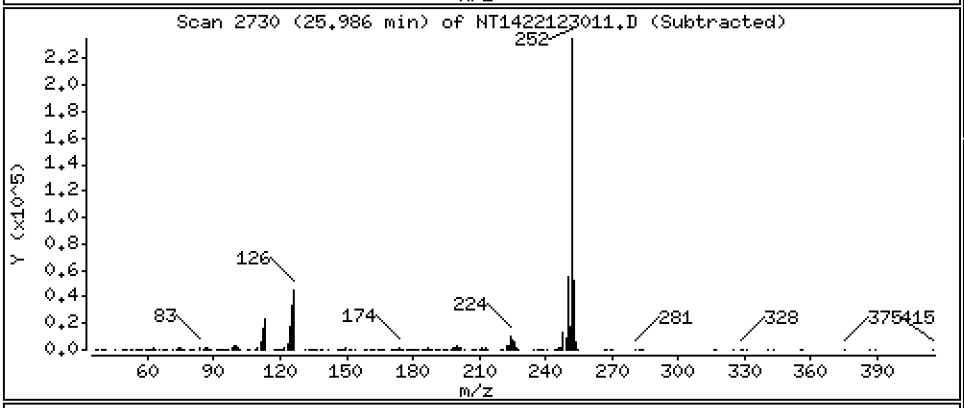
Column phase: ZB-5msi

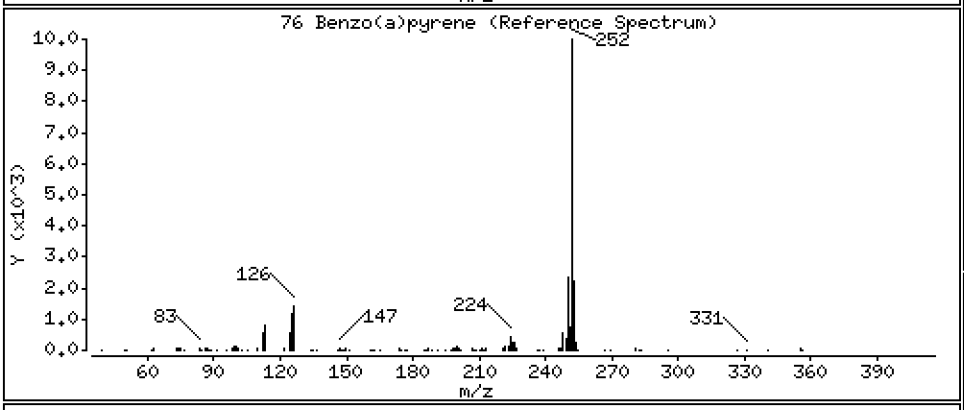
Column diameter: 0.25

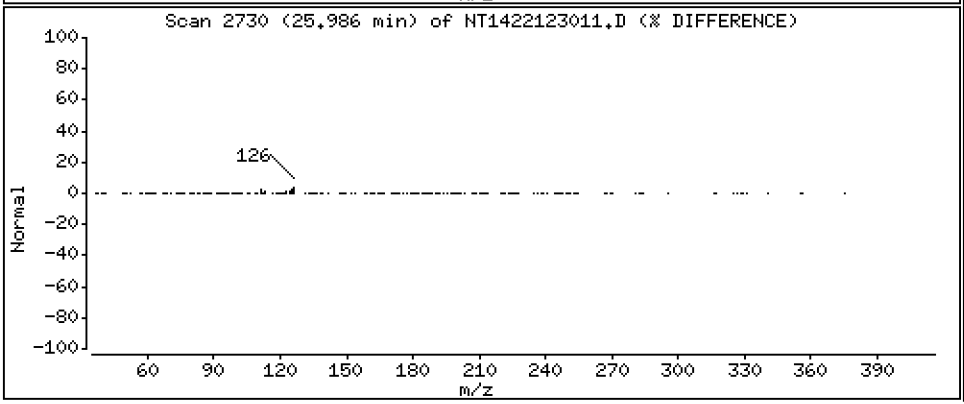
76 Benzo(a)pyrene

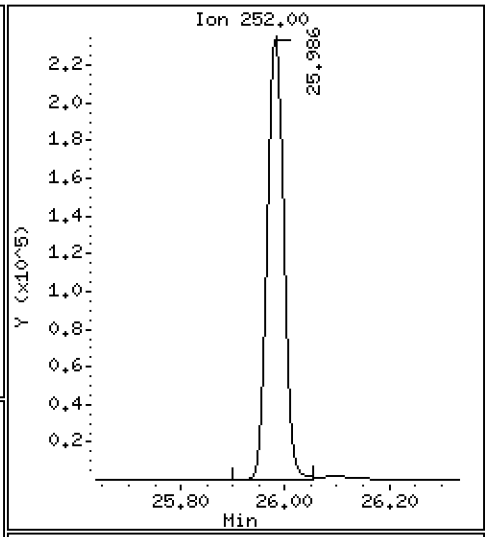
Concentration: 5.092 ug/mL

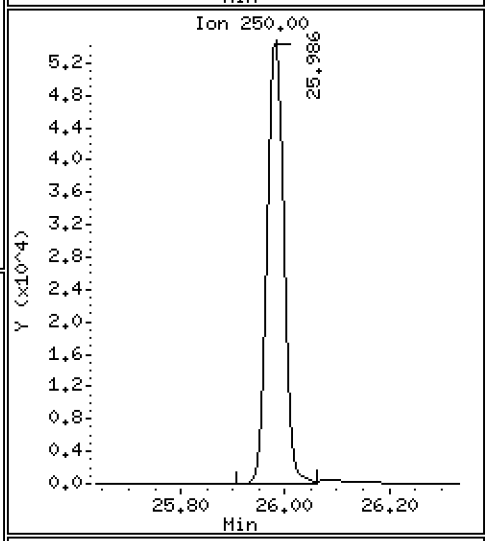


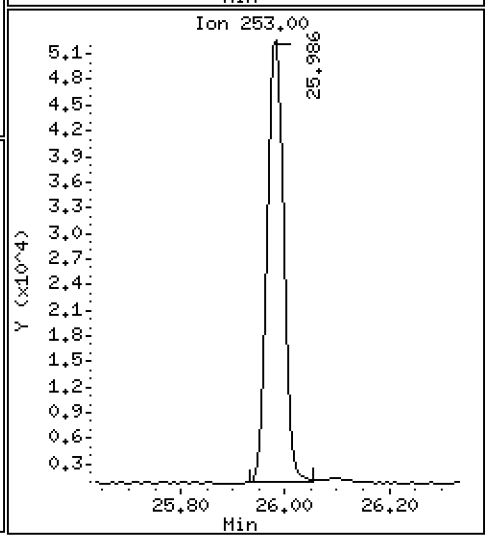












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

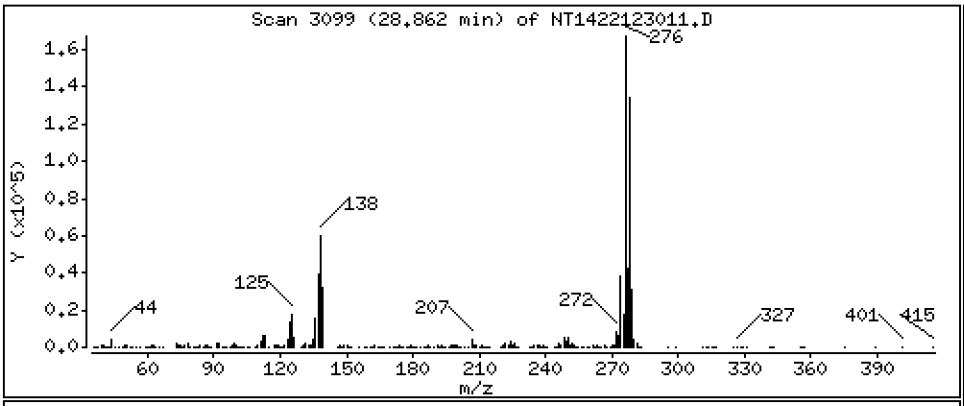
Operator: VTS

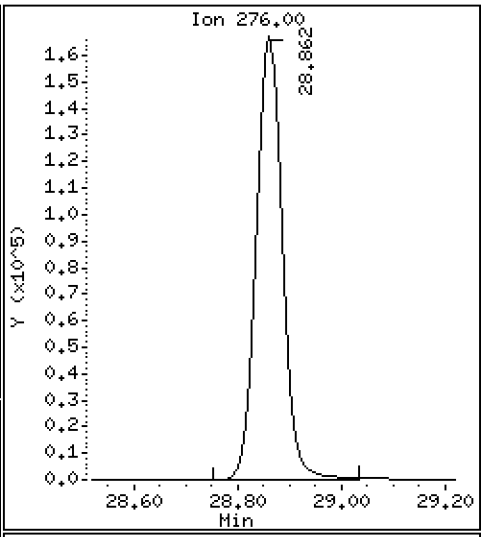
Column phase: ZB-5msi

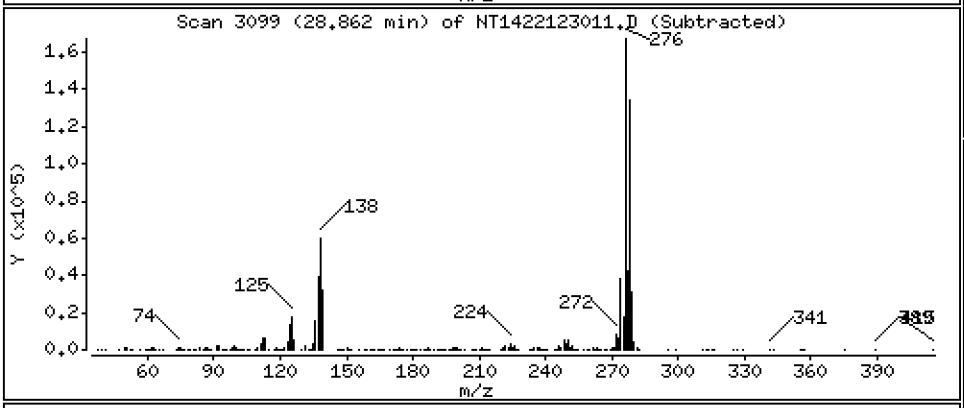
Column diameter: 0.25

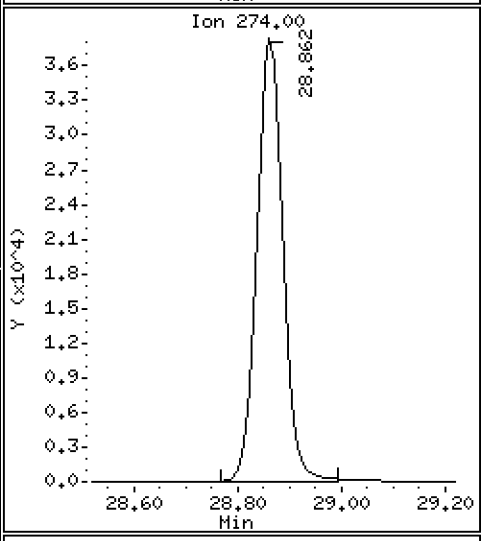
78 Indeno(1,2,3-cd)pyrene

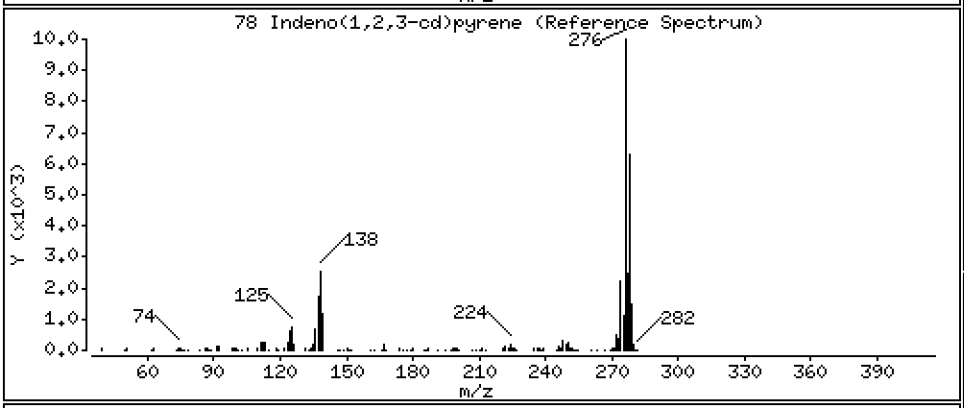
Concentration: 5.128 ug/mL

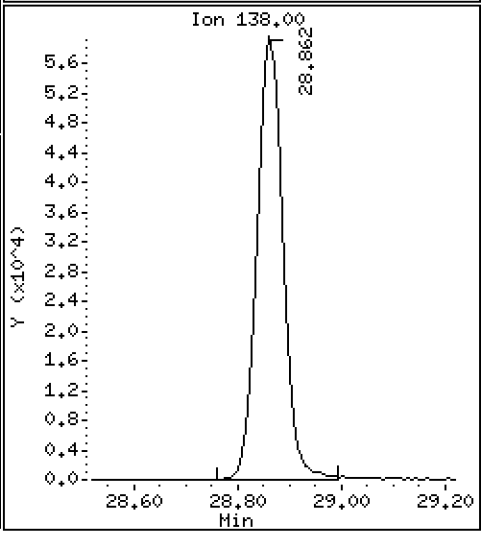


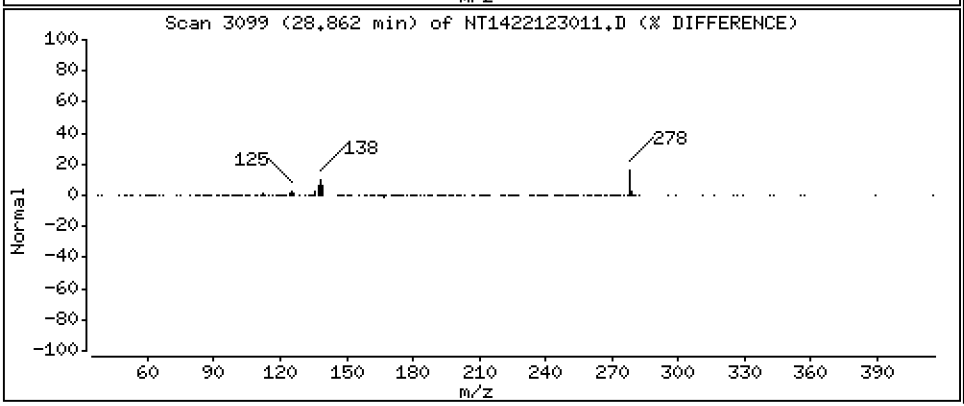












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

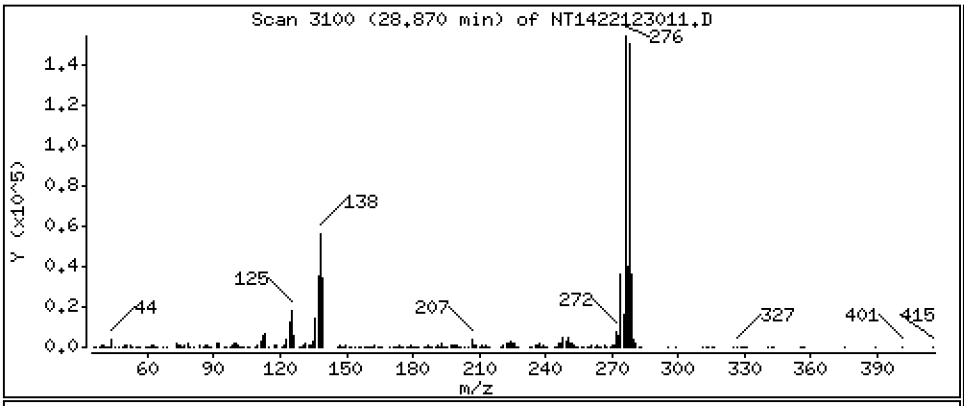
Operator: VTS

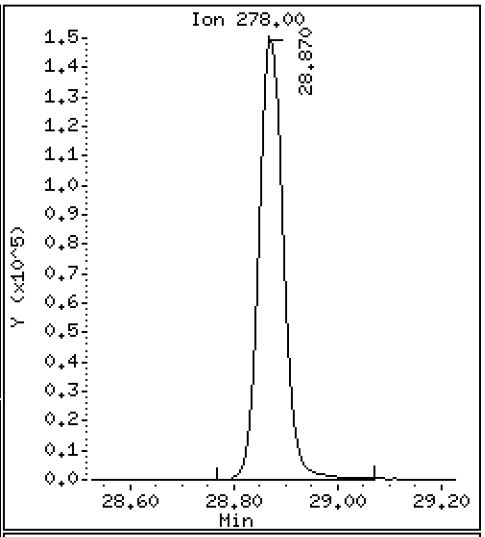
Column phase: ZB-5msi

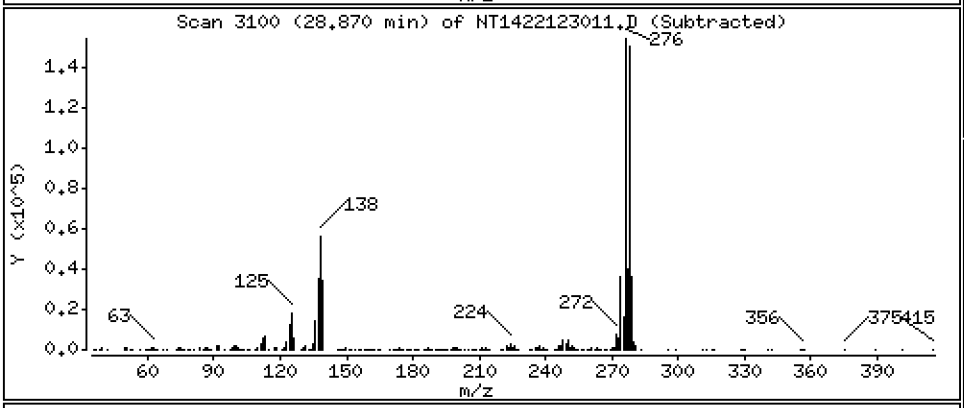
Column diameter: 0.25

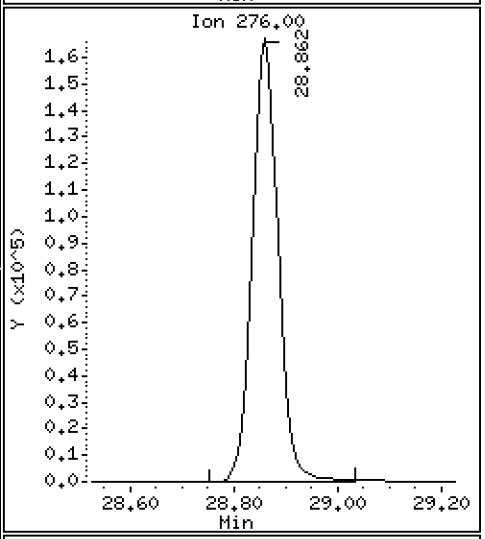
79 Dibenzo(a,h)anthracene

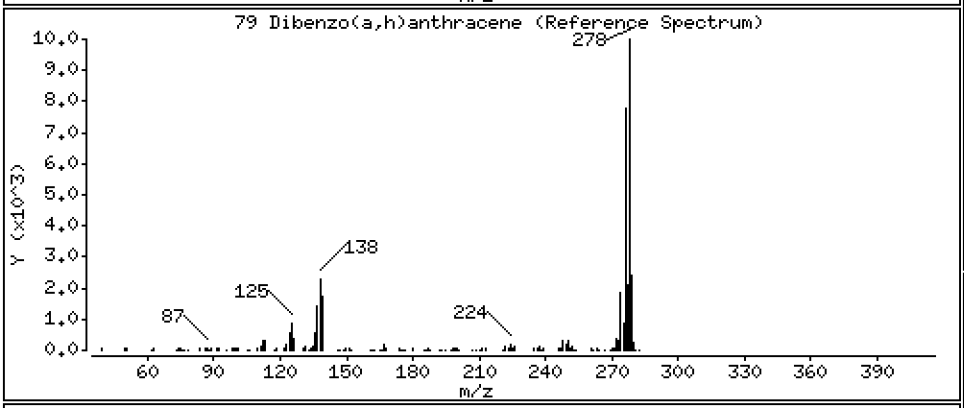
Concentration: 5.087 ug/mL

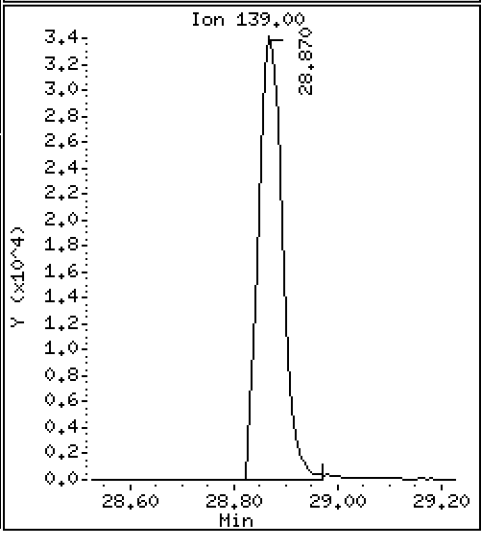


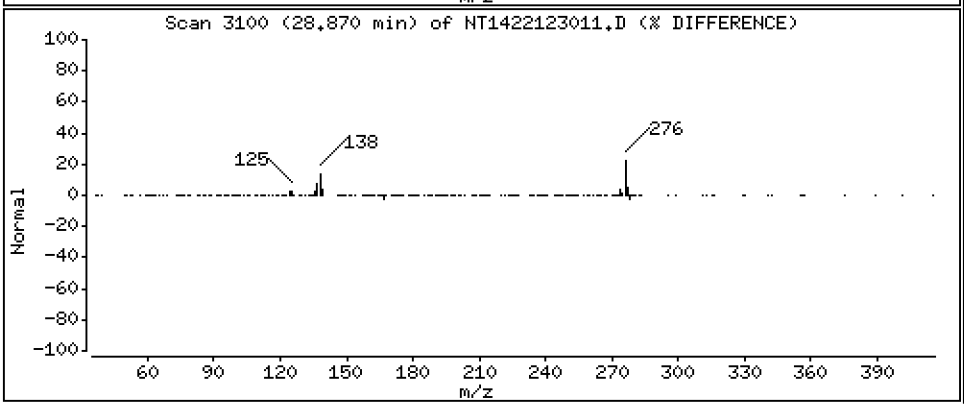












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

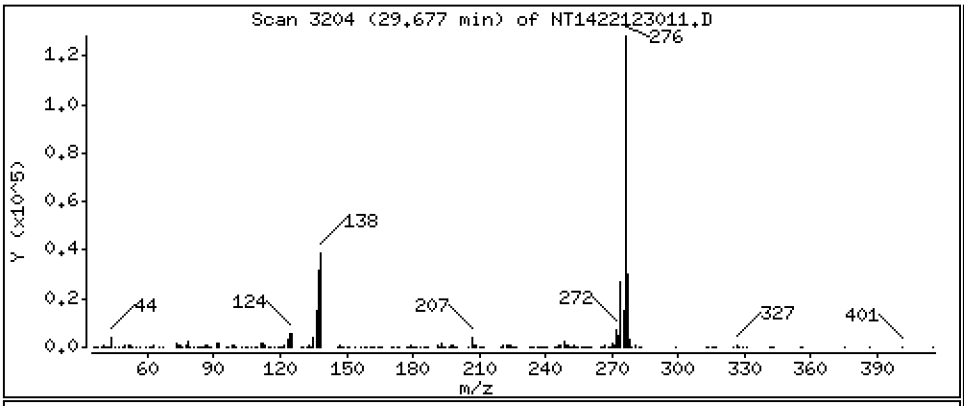
Operator: VTS

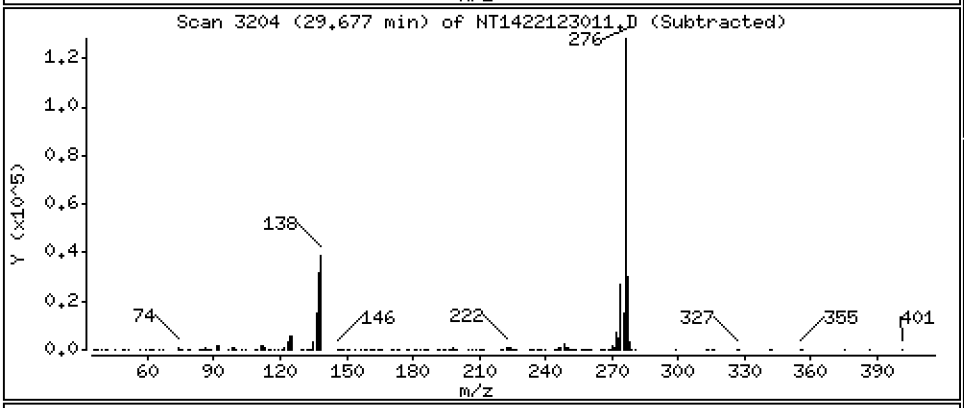
Column phase: ZB-5msi

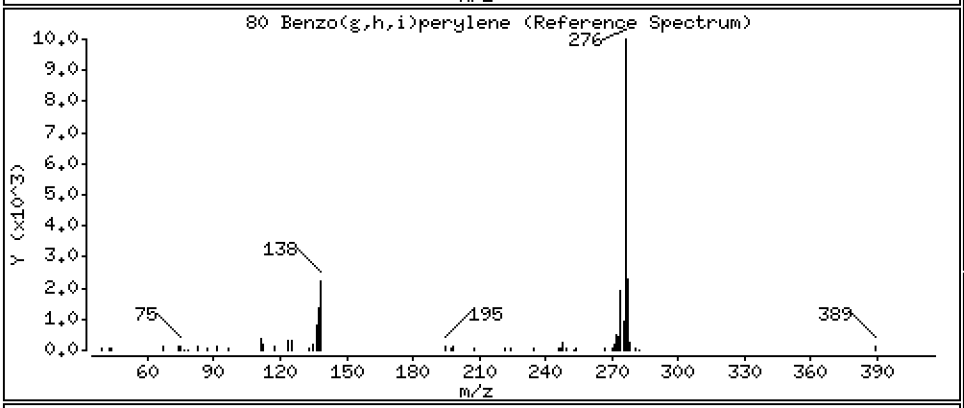
Column diameter: 0.25

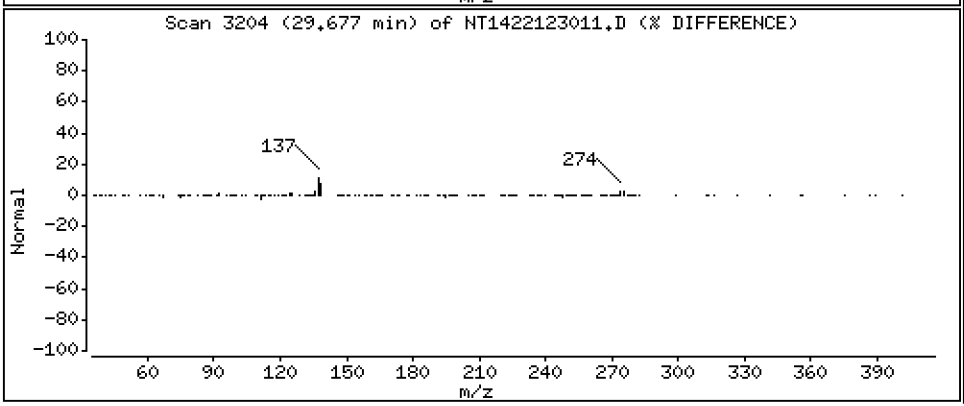
80 Benzo(g,h,i)perylene

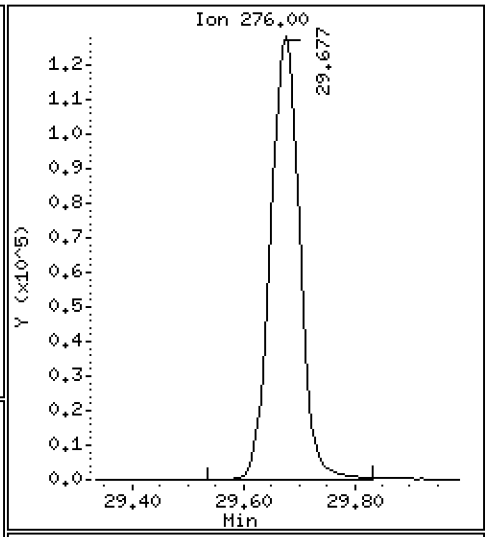
Concentration: 5.037 ug/mL

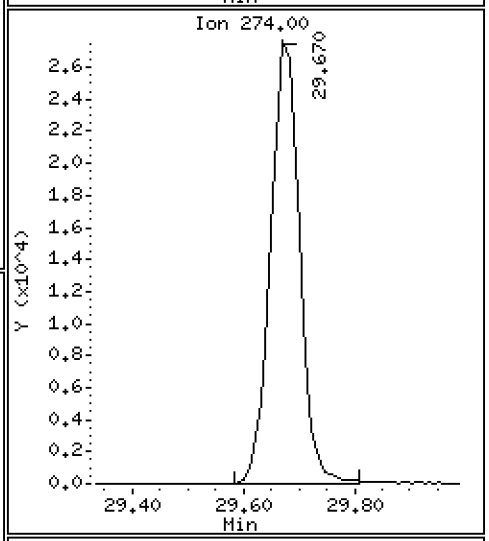


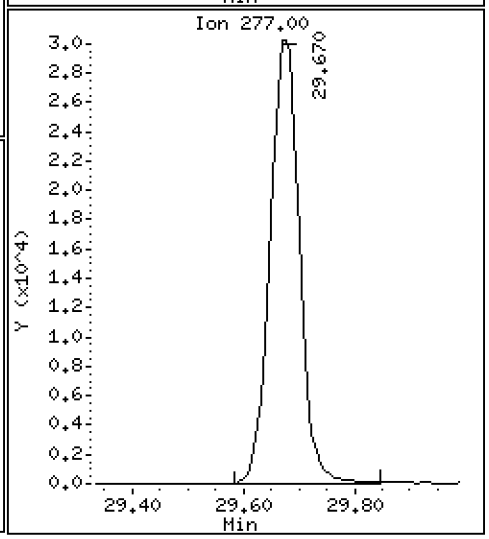












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

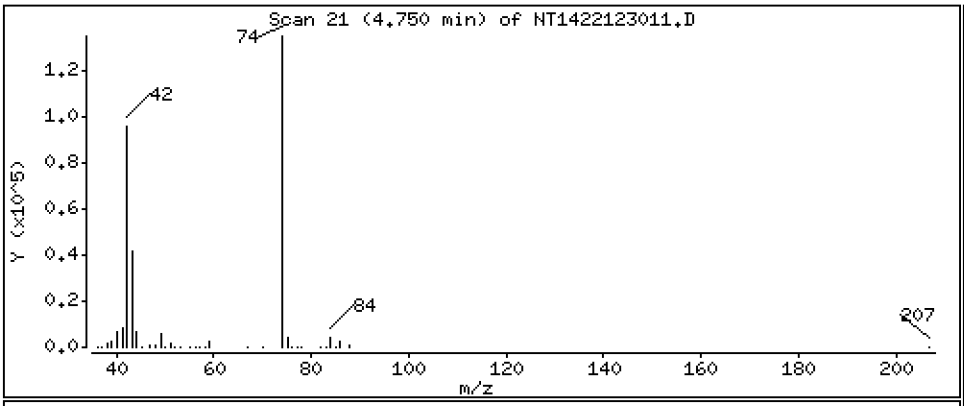
Operator: VTS

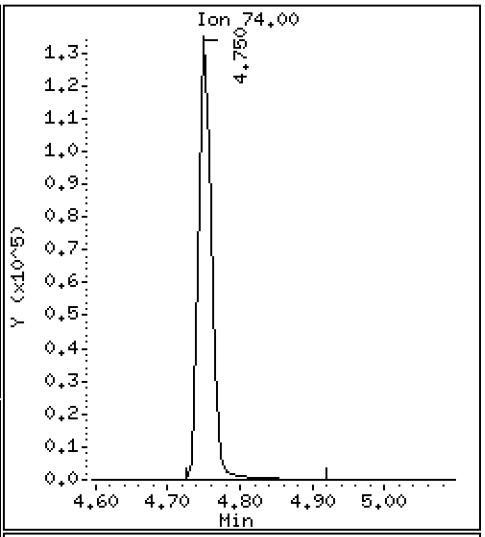
Column phase: ZB-5msi

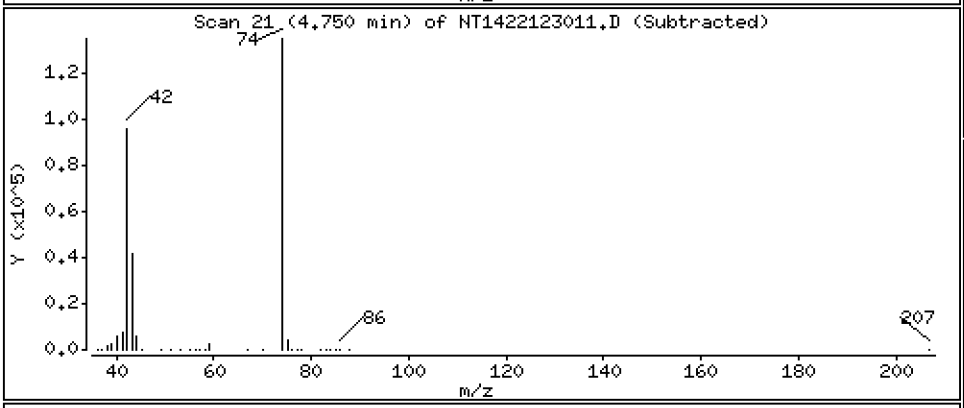
Column diameter: 0.25

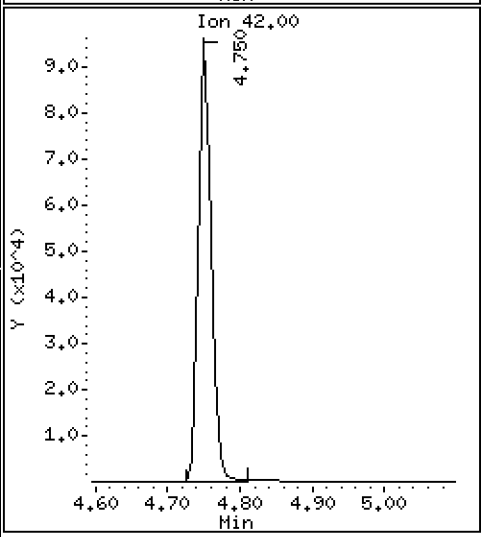
90 N-Nitrosodimethylamine

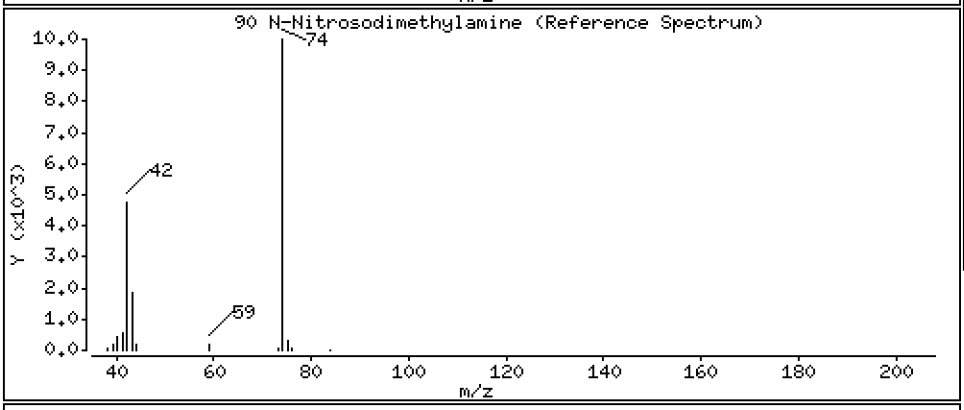
Concentration: 5.154 ug/mL

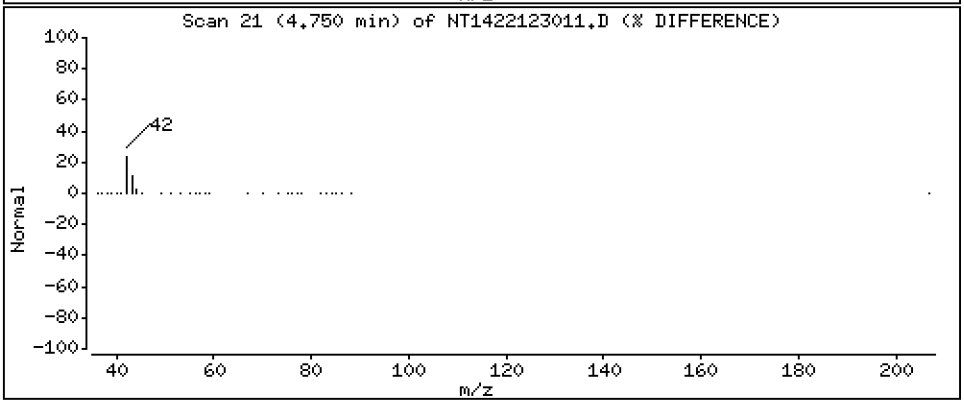












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

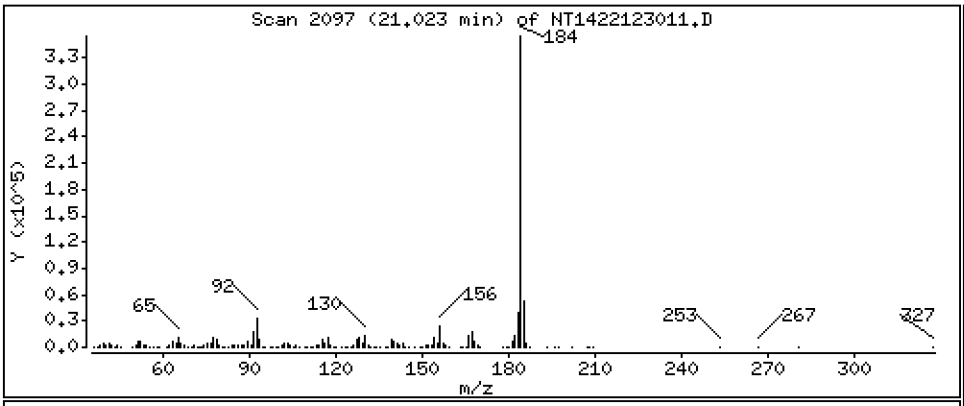
Operator: VTS

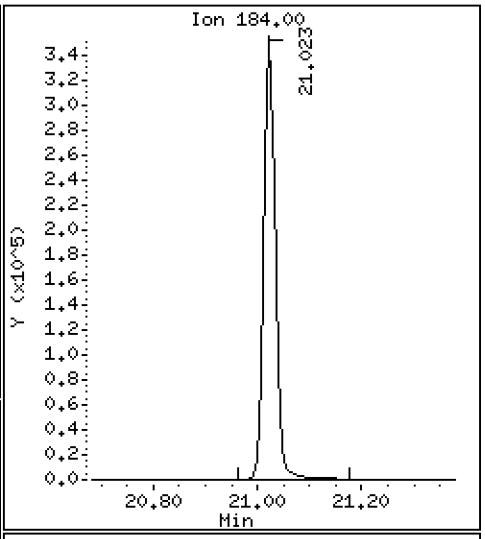
Column phase: ZB-5msi

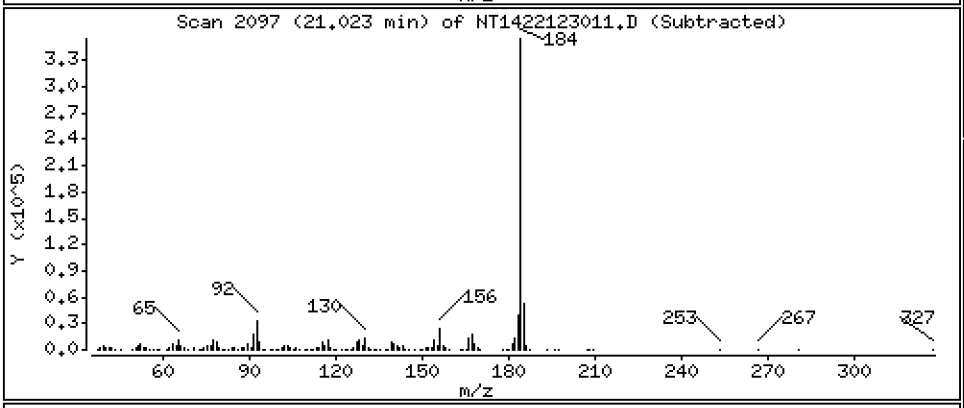
Column diameter: 0.25

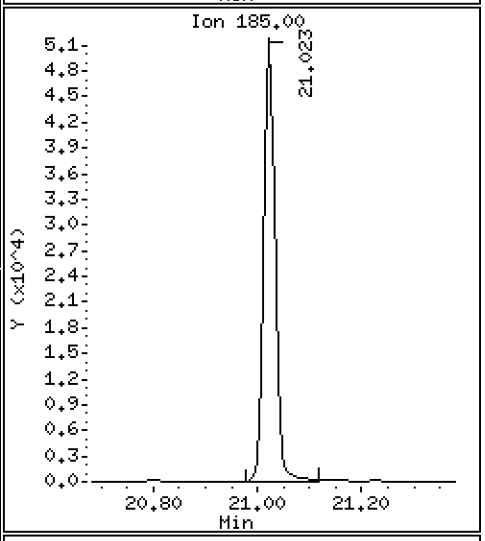
93 Benzidine

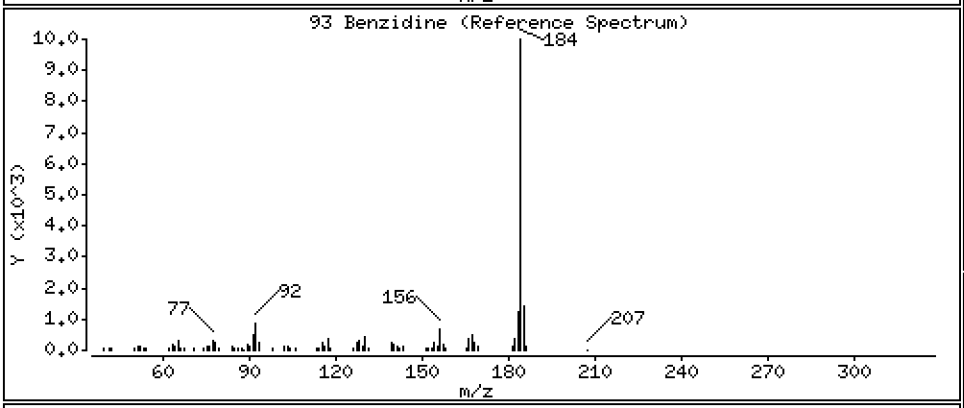
Concentration: 9.704 ug/mL

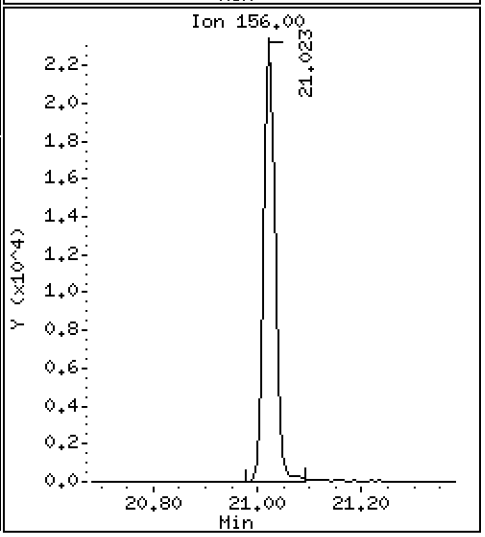


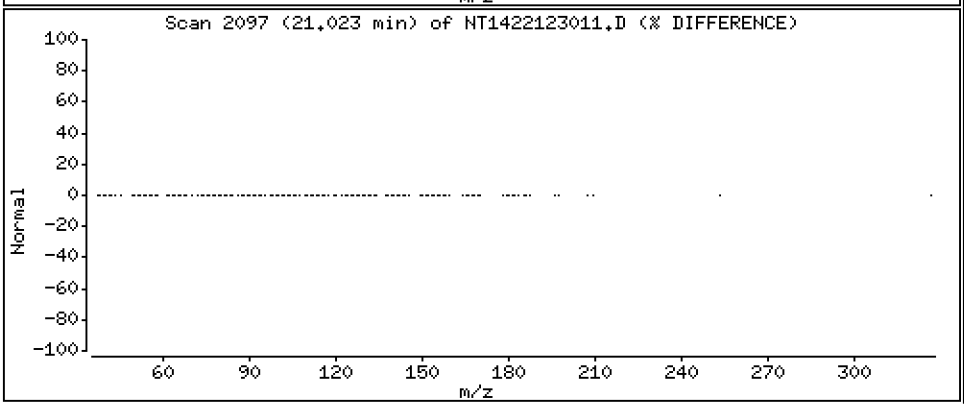












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

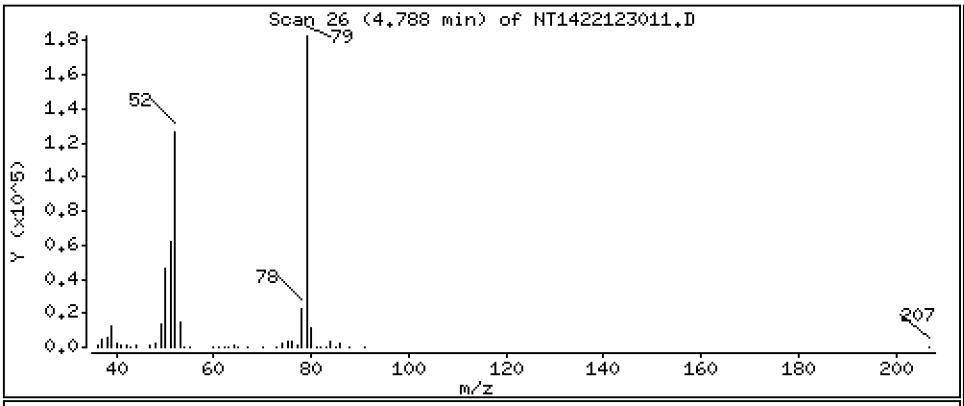
Operator: VTS

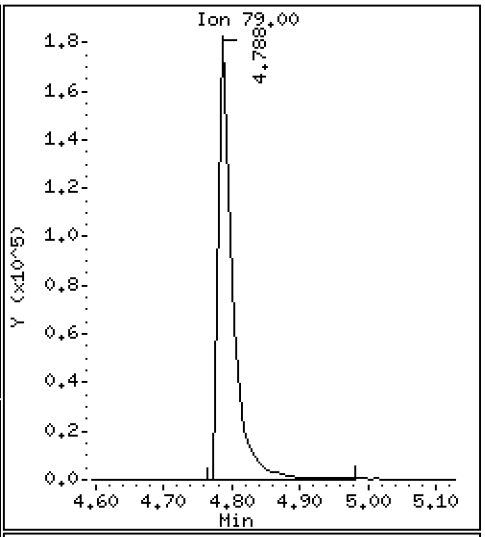
Column phase: ZB-5msi

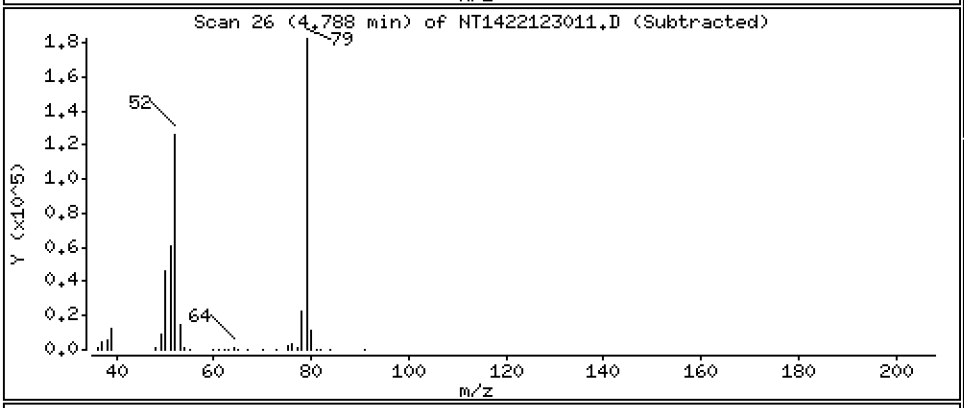
Column diameter: 0.25

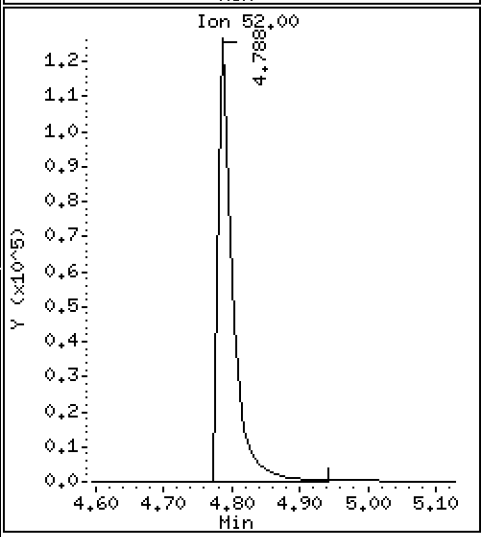
103 Pyridine

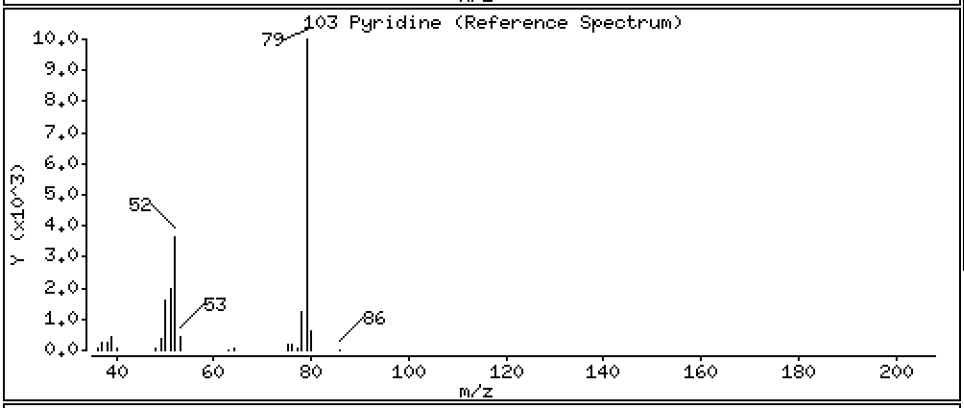
Concentration: 2.681 ug/mL

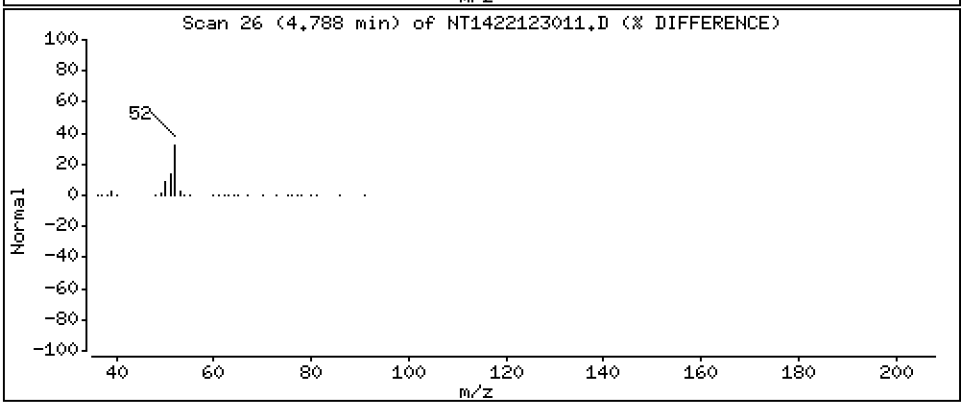












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

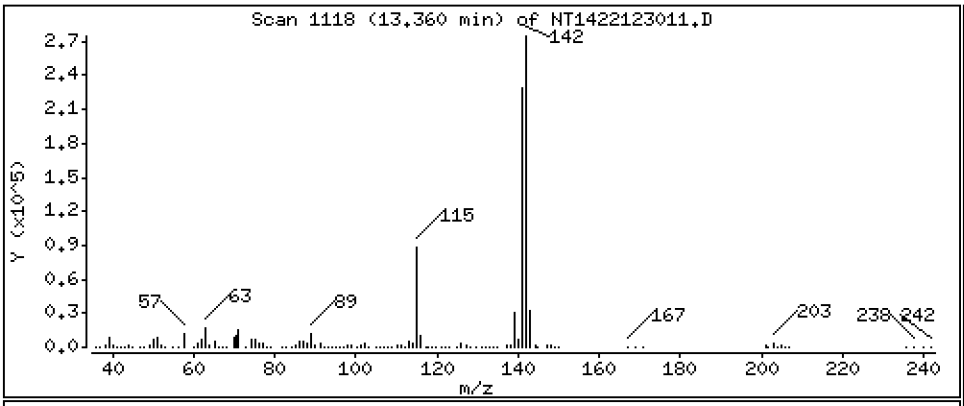
Operator: VTS

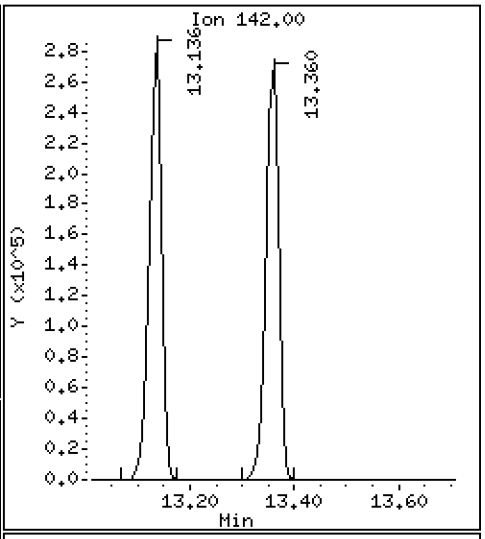
Column phase: ZB-5msi

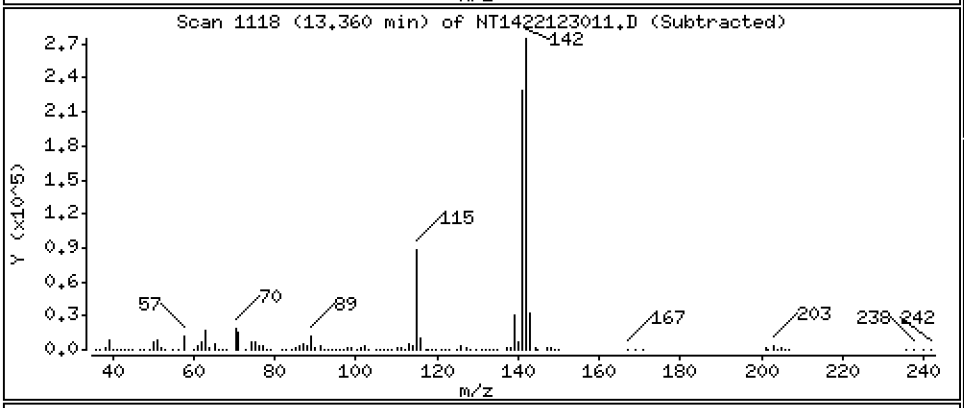
Column diameter: 0.25

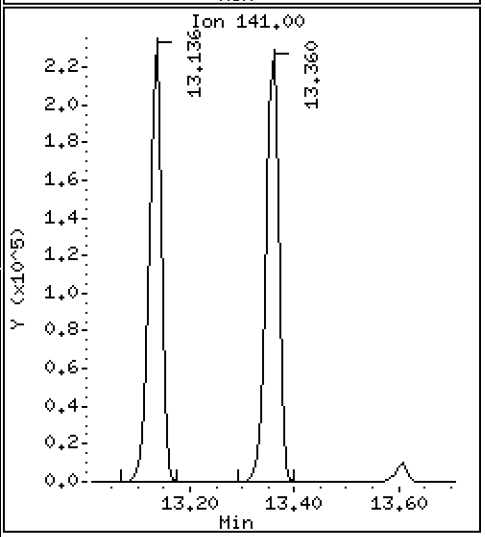
105 1-methylnaphthalene

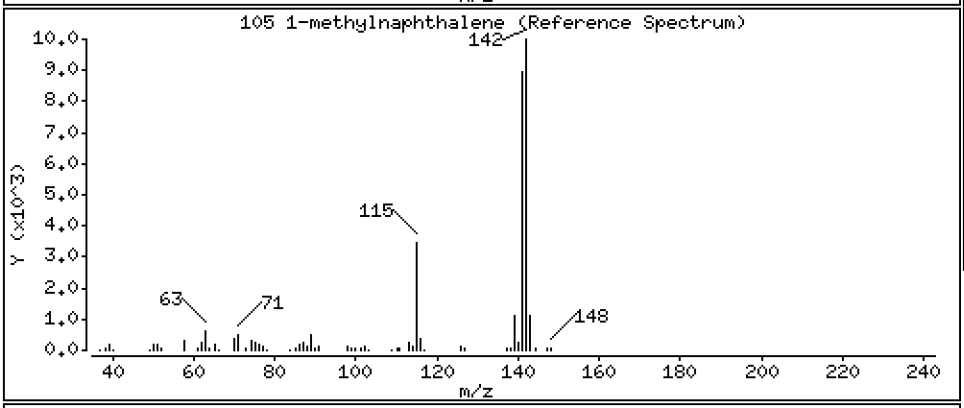
Concentration: 4.671 ug/mL

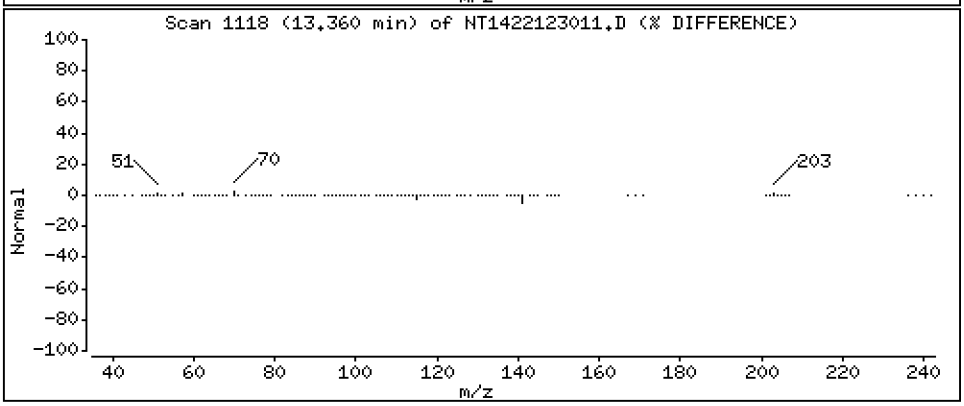












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

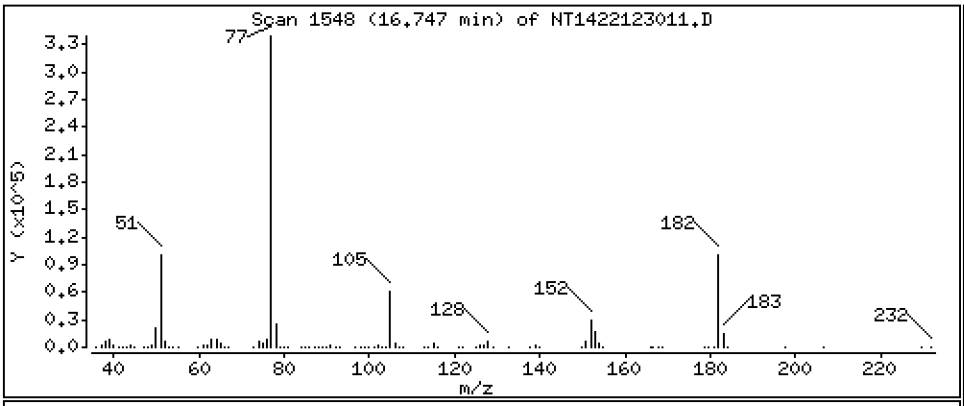
Operator: VTS

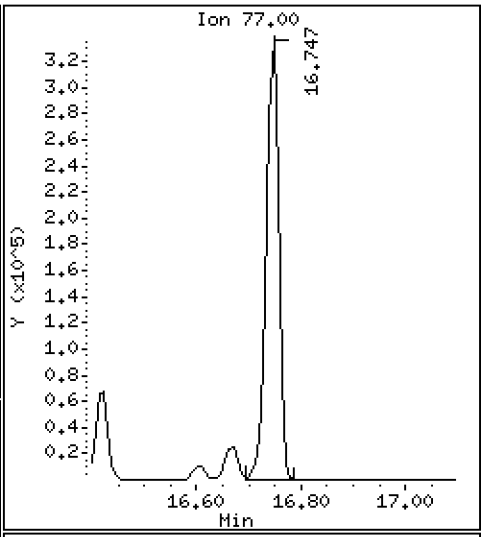
Column phase: ZB-5msi

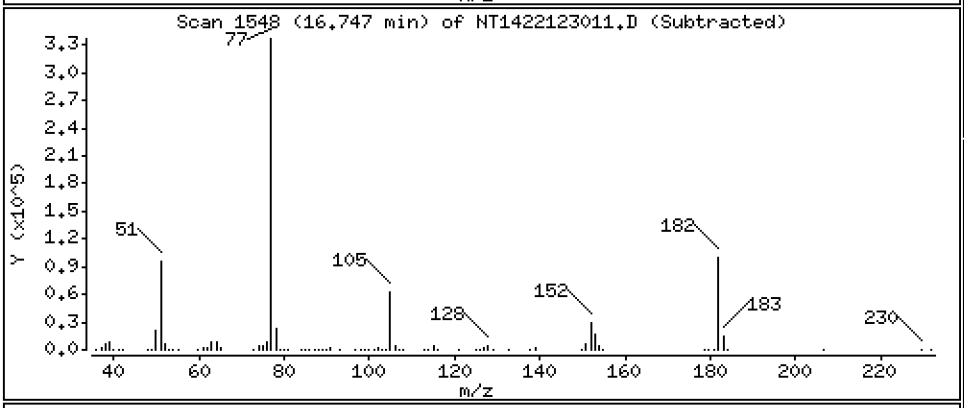
Column diameter: 0.25

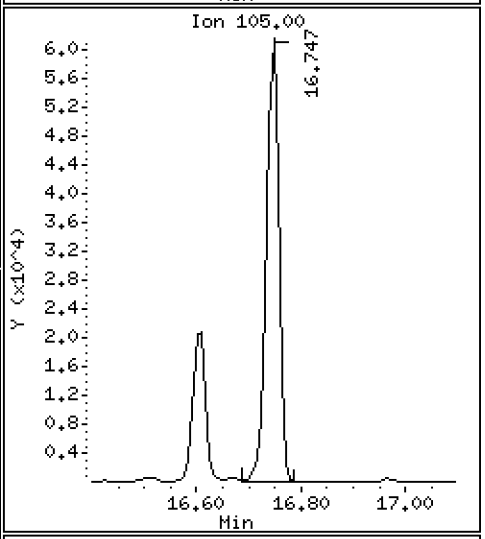
111 Azobenzene (1,2-DP-Hydrazine)

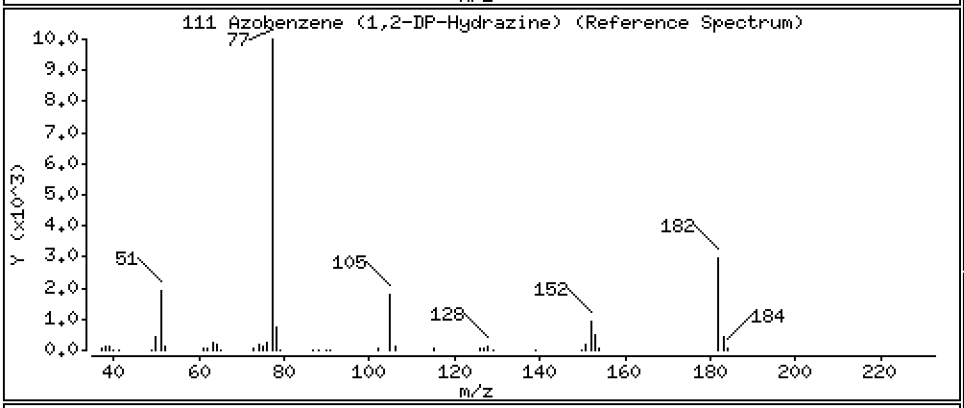
Concentration: 4.893 ug/mL

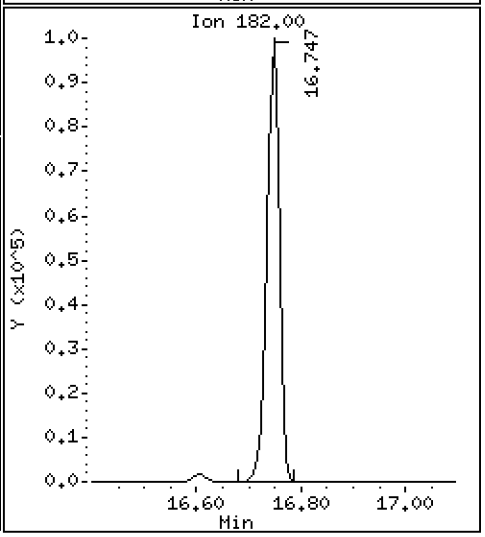


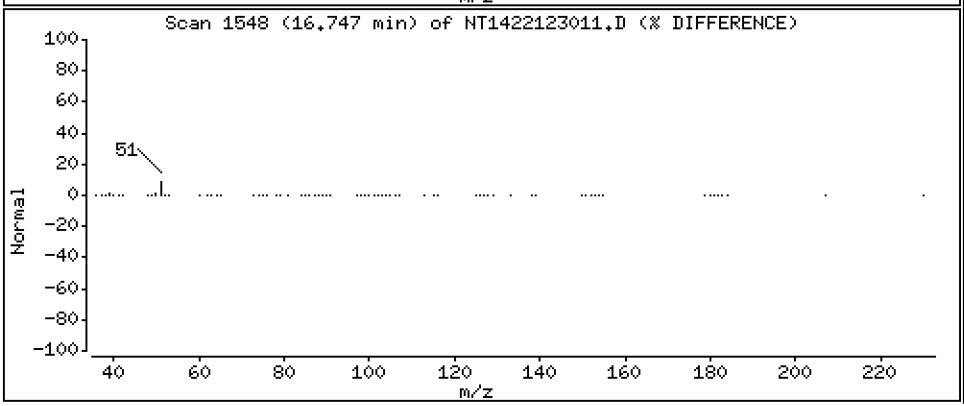












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

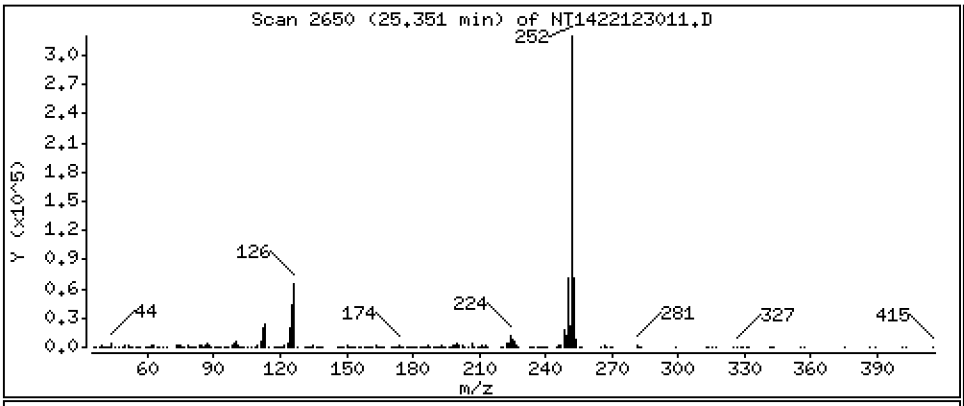
Operator: VTS

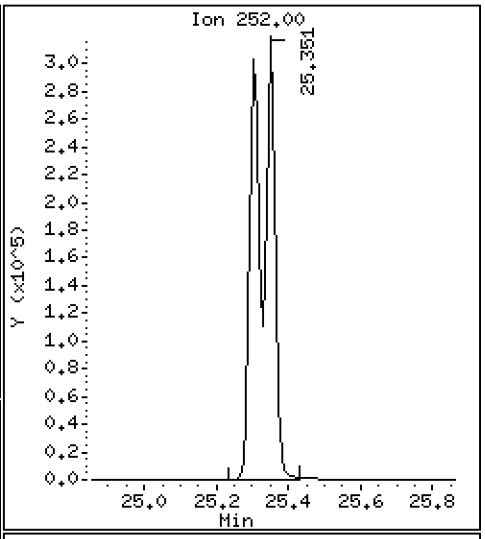
Column phase: ZB-5msi

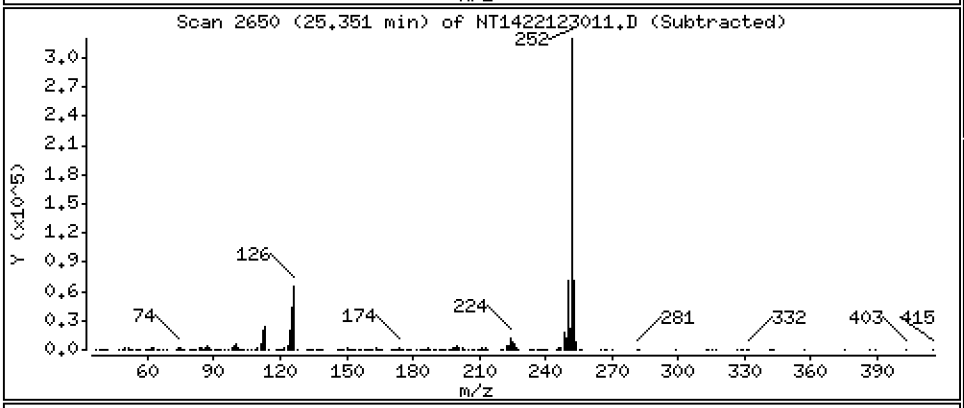
Column diameter: 0.25

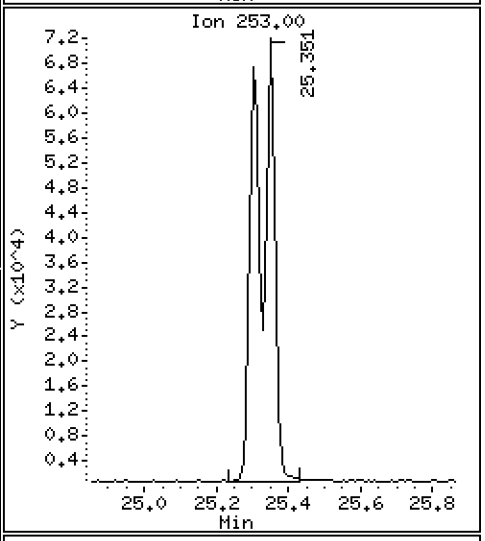
187 Total Benzofluoranthenes

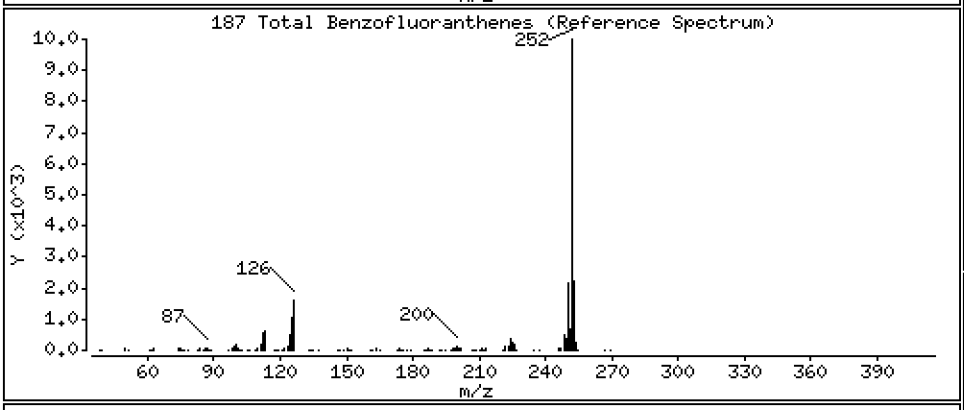
Concentration: 9.972 ug/mL

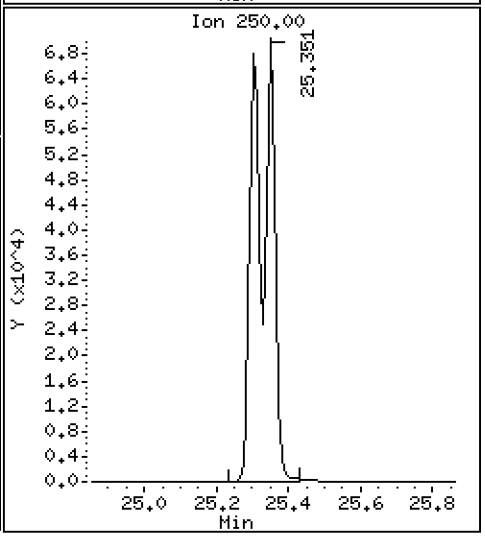


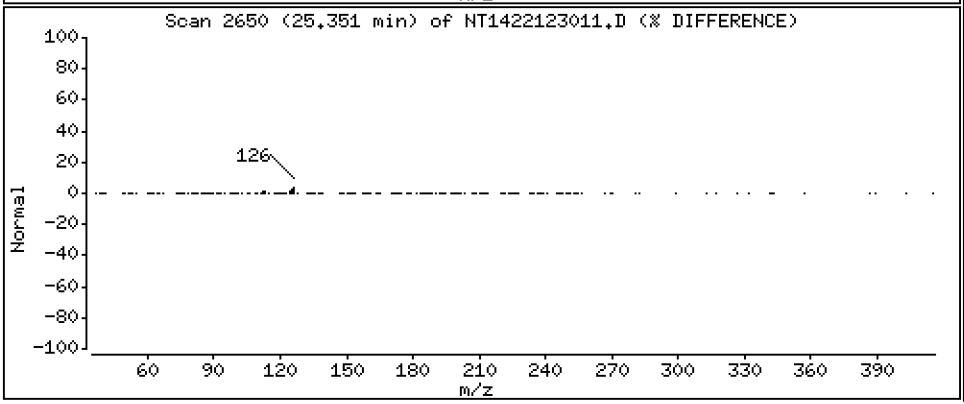












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

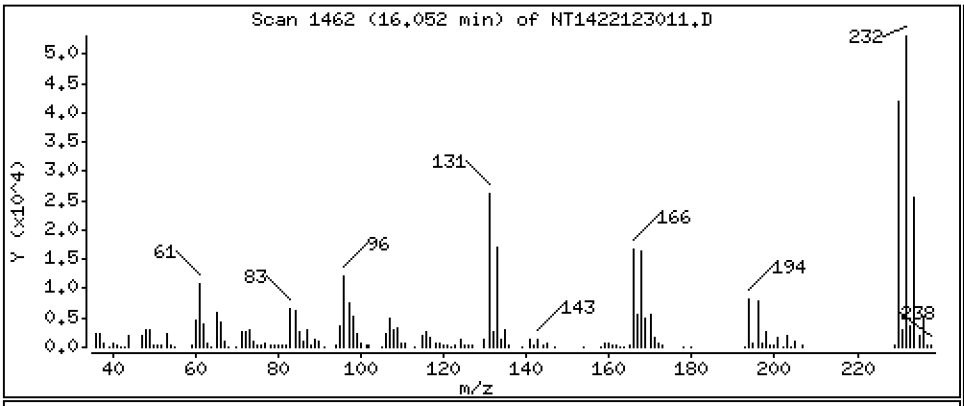
Operator: VTS

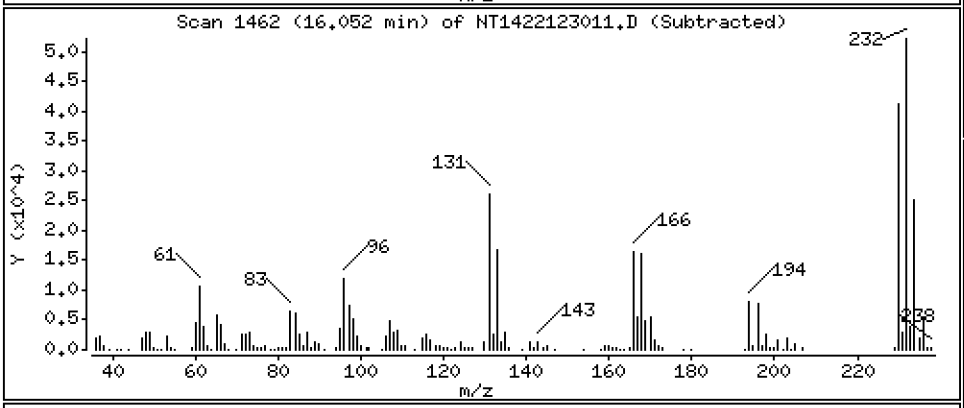
Column phase: ZB-5msi

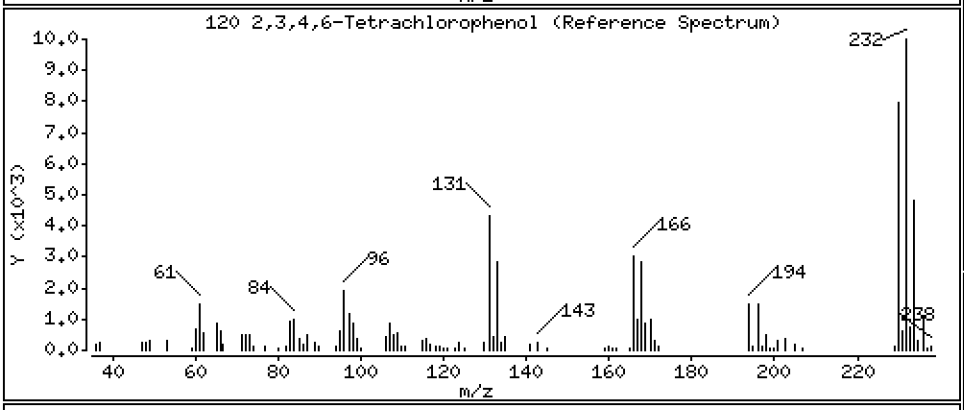
Column diameter: 0.25

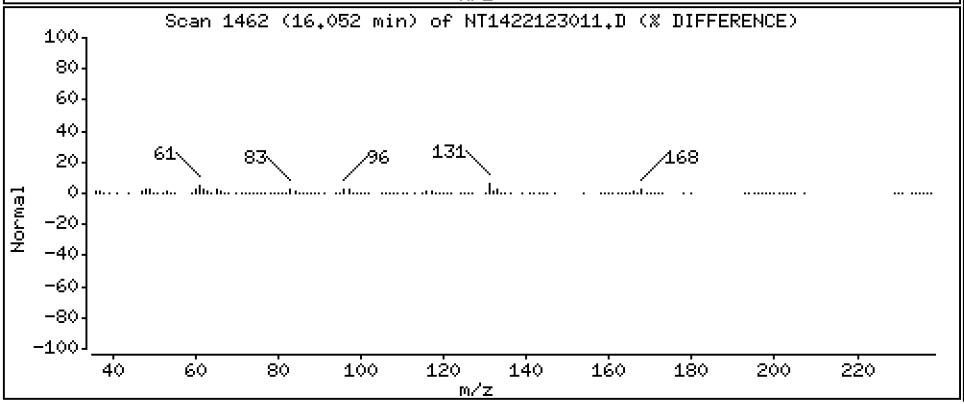
120 2,3,4,6-Tetrachlorophenol

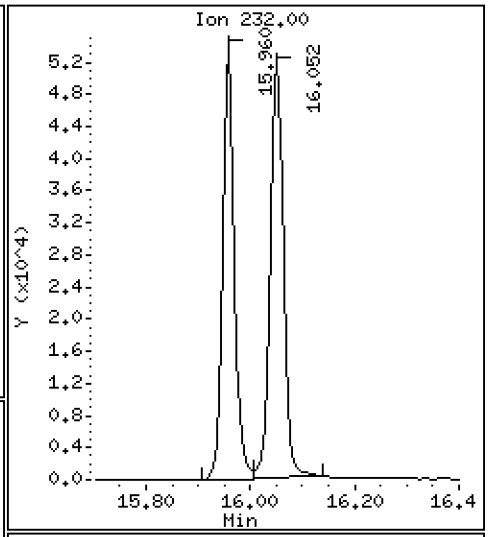
Concentration: 4.079 ug/mL

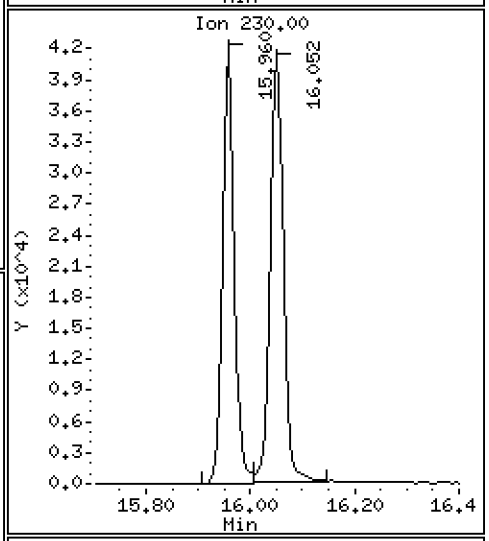


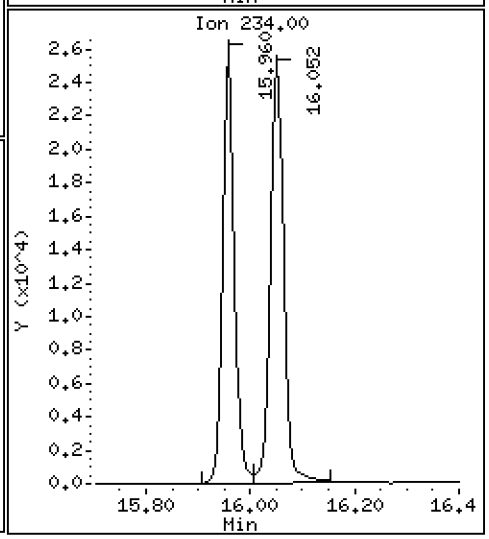












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	340542	7.31681	7.317
$	2 Phenol-d5	99	8.526	8.526	(0.928)	425409	7.39610	7.396
	3 Phenol	94	8.550	8.549	(0.931)	284374	4.35110	4.351
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	353505	7.31802	7.318
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	229408	5.09546	5.095
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	236672	4.46115	4.461
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	267449	4.75416	4.754
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	145276	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	254370	4.77289	4.773
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	157368	4.76640	4.766
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	249154	4.76694	4.767
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	144889	4.97978	4.980
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	78691	5.19294	5.193
	13 2-Methylphenol	108	9.673	9.672	(1.053)	186498	3.92700	3.927
	17 Hexachloroethane	117	10.177	10.177	(1.108)	96618	4.92918	4.929
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	148366	5.12841	5.128
	15 4-Methylphenol	108	9.952	9.944	(1.084)	206520	4.12221	4.122
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	222732	4.86182	4.862
	19 Nitrobenzene	77	10.317	10.316	(0.883)	222014	4.87964	4.880
	20 Isophorone	82	10.767	10.774	(0.921)	402784	6.94605	6.946
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	131718	4.55573	4.556
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	173928	3.66274	3.663
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	255794	5.67041	5.670
	24 Benzoic acid	105	11.155	11.201	(0.954)	187105	6.38476	6.385
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	175656	4.38838	4.388
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	197978	4.57428	4.574
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	542519	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	642406	4.81161	4.812
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	211901	3.84856	3.849
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	103565	4.82279	4.823
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	170811	4.52201	4.522
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	452041	4.61574	4.616
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	112264	5.08058	5.081

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278
$	36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817
	37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754
	38	2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043
	39	Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023
	40	Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000
	41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115
*	42	Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000	
	43	3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088
	44	Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916
	45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036
	46	Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709
	47	4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077
	48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956
	50	Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353
	49	Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230
	51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094
	52	4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082
	54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775
$	55	2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239
	56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938
	57	Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553
	58	Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796
*	59	Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000	
	60	Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767
	61	Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373
	62	Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620
	63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931
	64	Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090
	65	Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022
$	66	Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816
	67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005
	68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890
*	69	Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207
	71	Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763
	72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899
*	134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000	
	73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083
	74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893
	75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093
	76	Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092
*	77	Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128
	79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087
	80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037
	90	N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704
	103	Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681
	105	1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 13:31

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

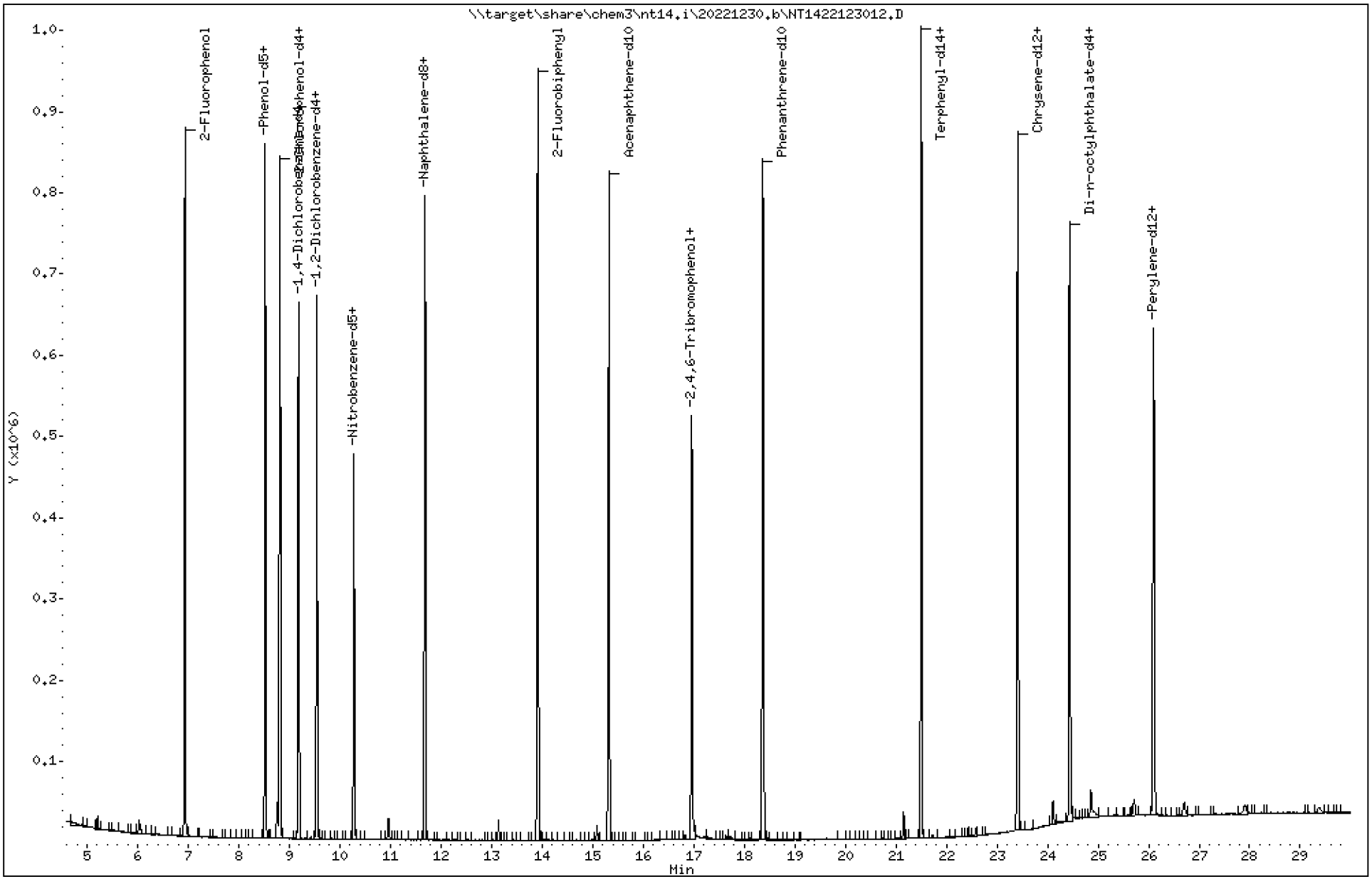
RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D
Date : 30-DEC-2022 14:08
Client ID:
Sample Info: SKL0355-ICB1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

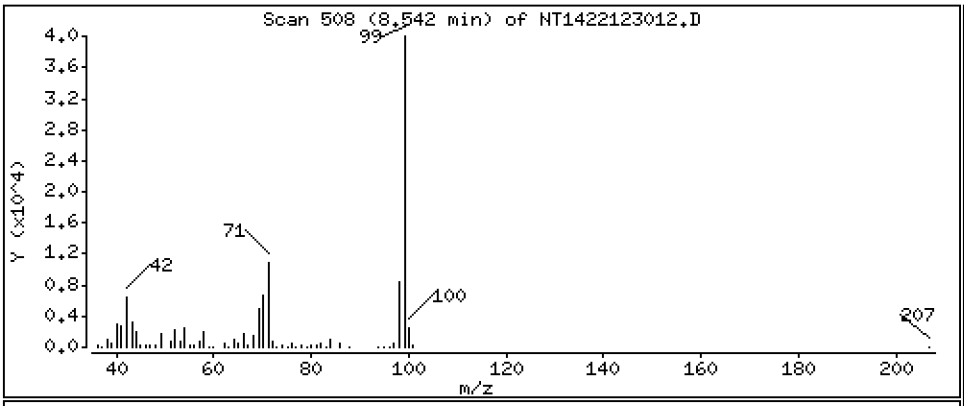
Operator: VTS

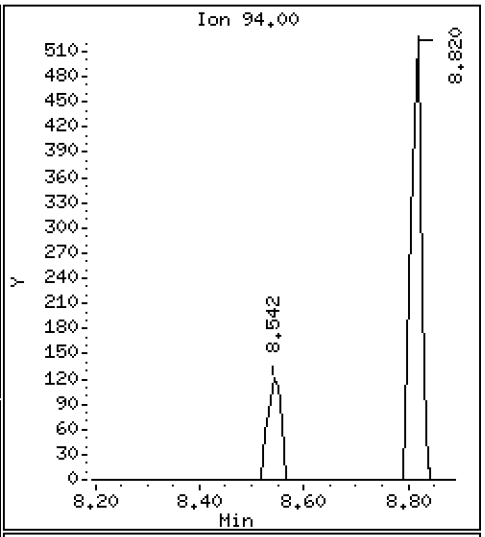
Column phase: ZB-5msi

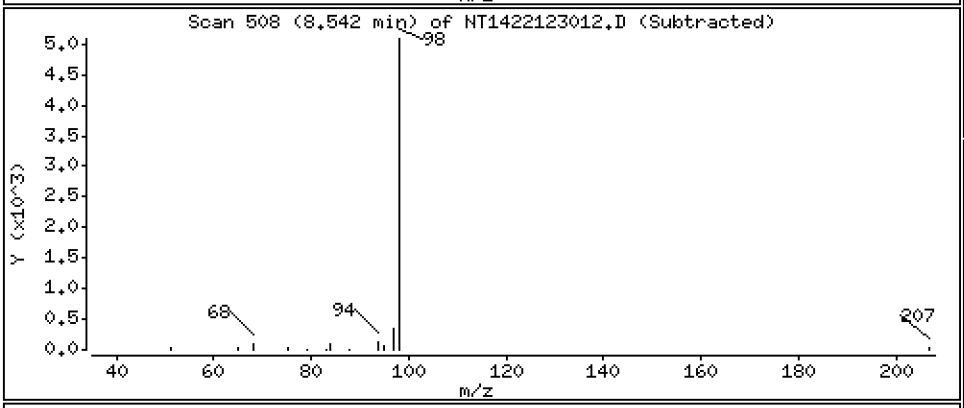
Column diameter: 0.25

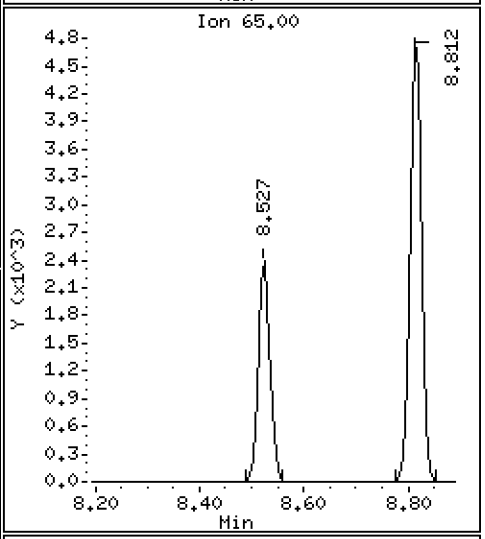
3 Phenol

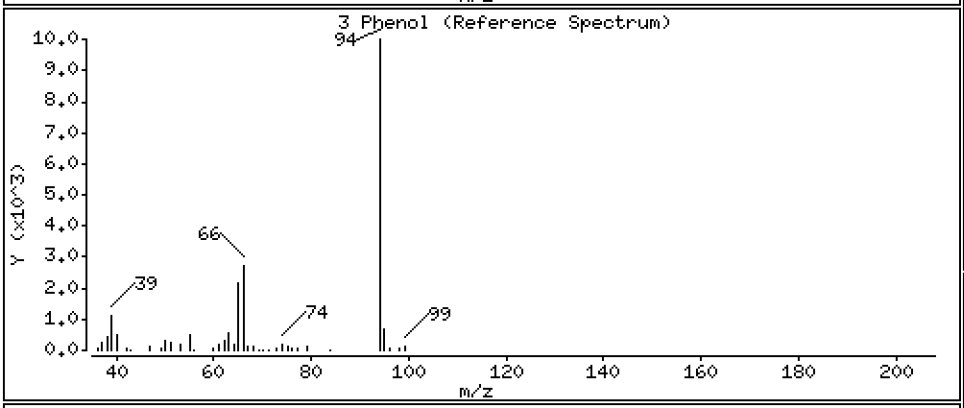
Concentration: 0.002573 ug/mL

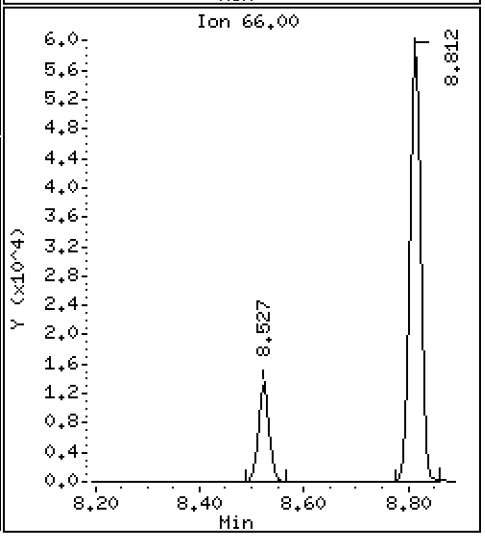


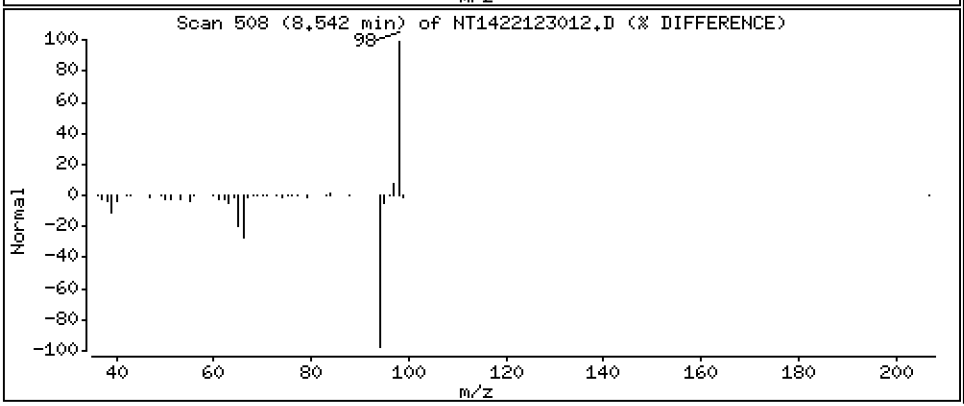












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

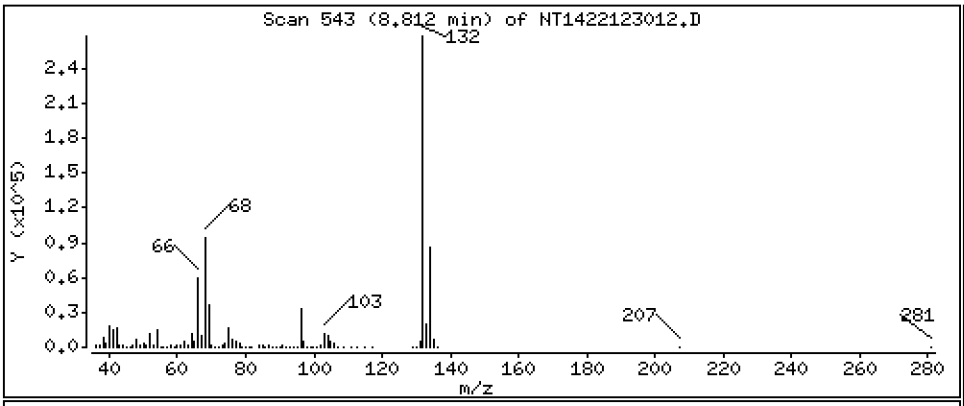
Operator: VTS

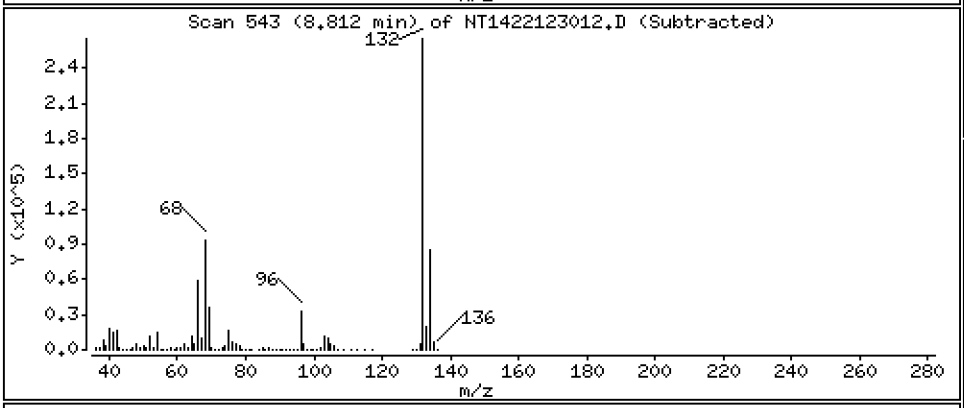
Column phase: ZB-5msi

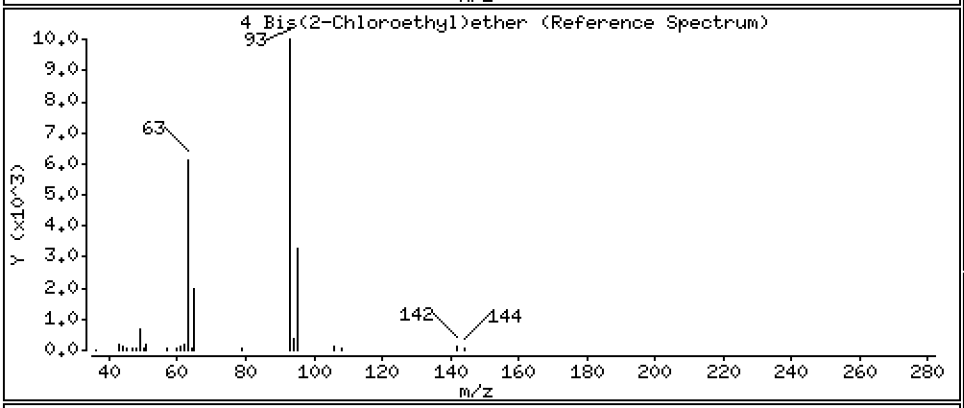
Column diameter: 0.25

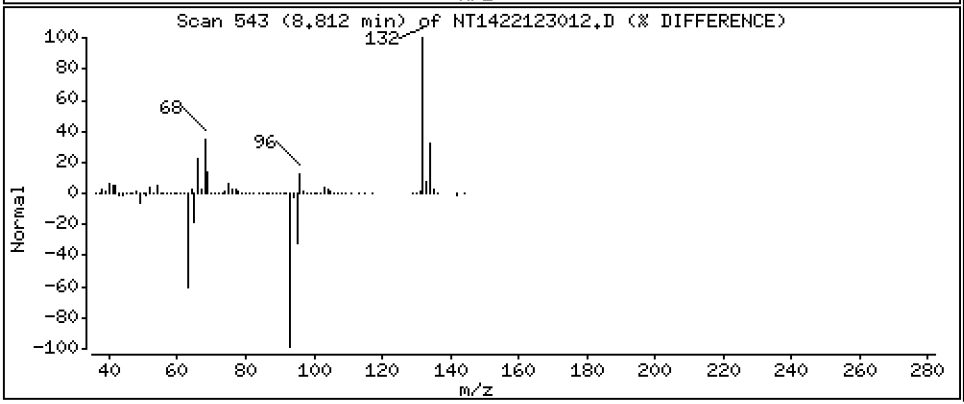
4 Bis(2-Chloroethyl)ether

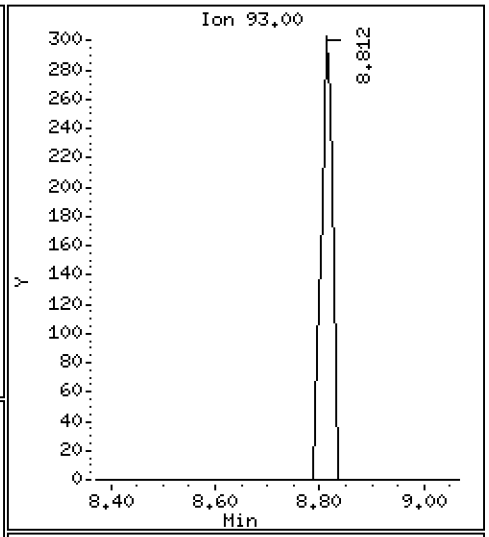
Concentration: 0.008376 ug/mL

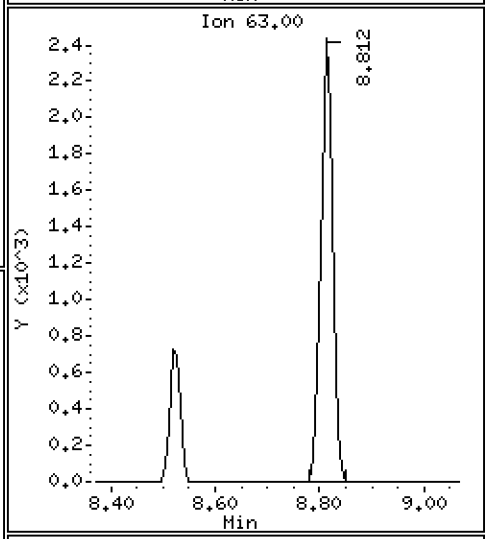


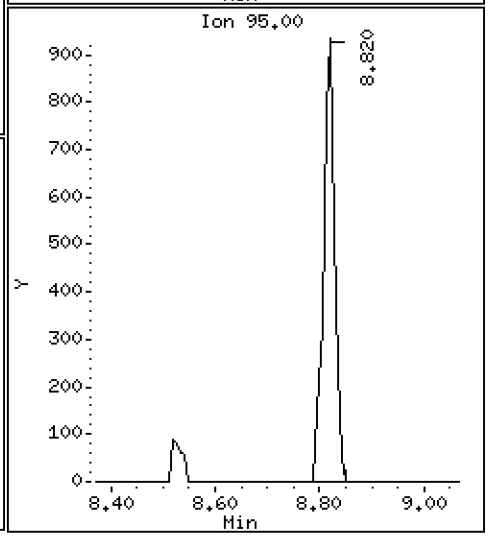












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

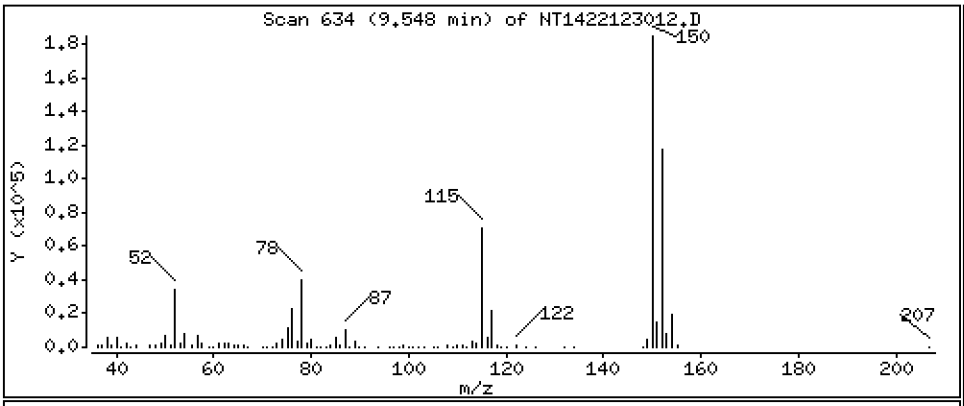
Operator: VTS

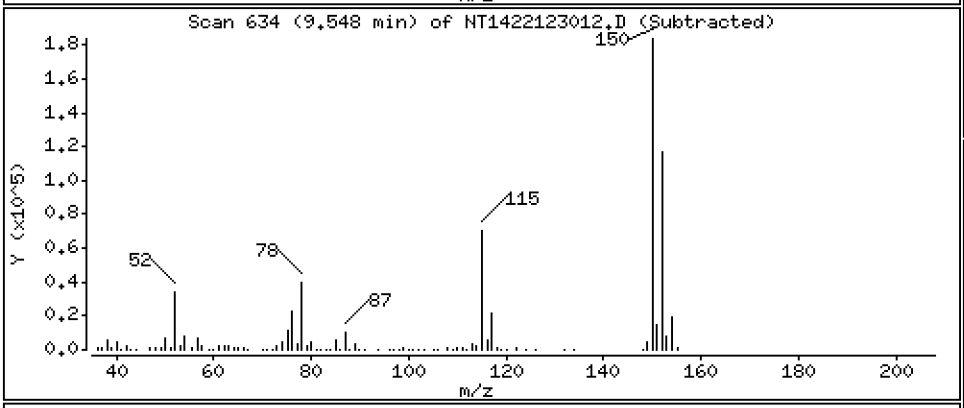
Column phase: ZB-5msi

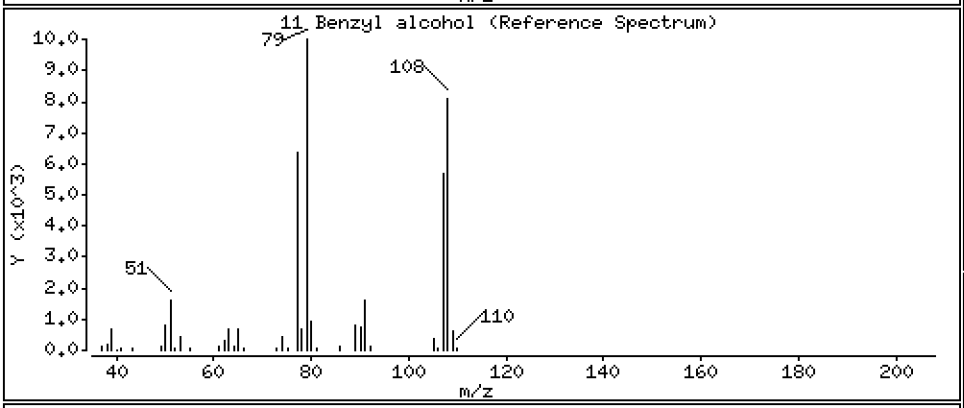
Column diameter: 0.25

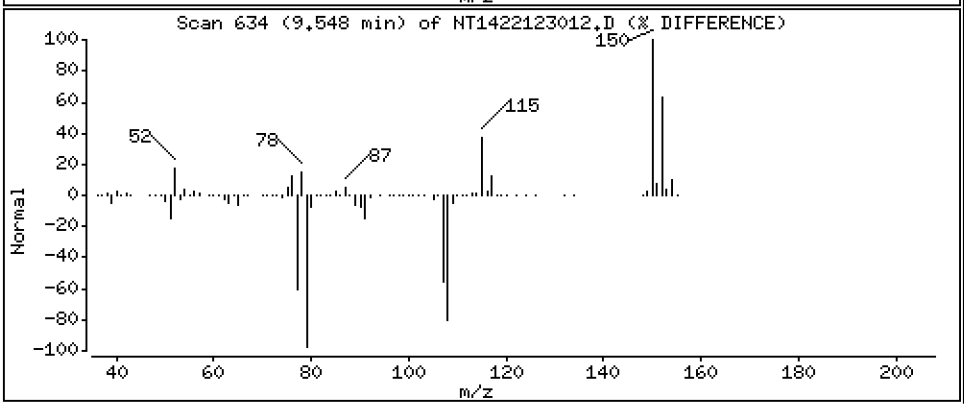
11 Benzyl alcohol

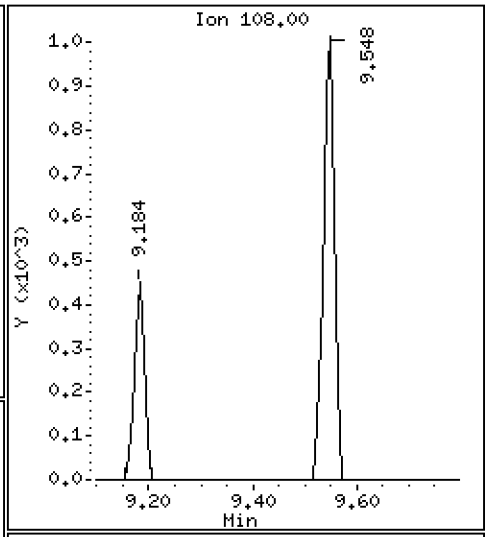
Concentration: 0.04372 ug/mL

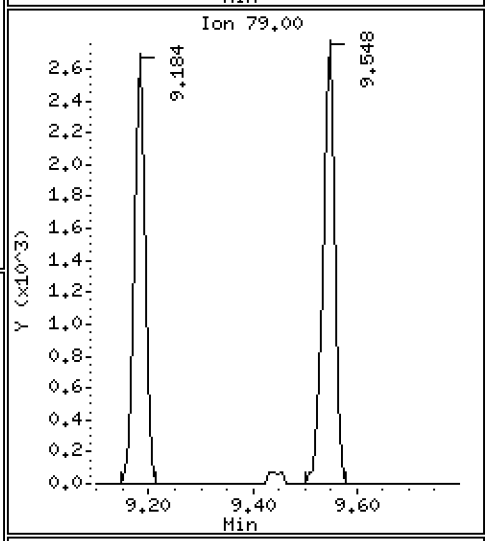


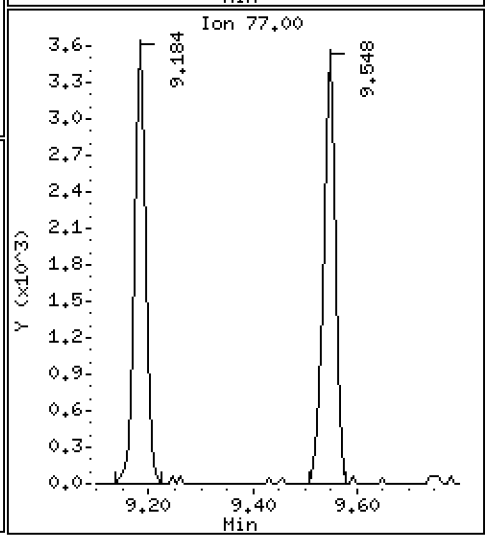












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

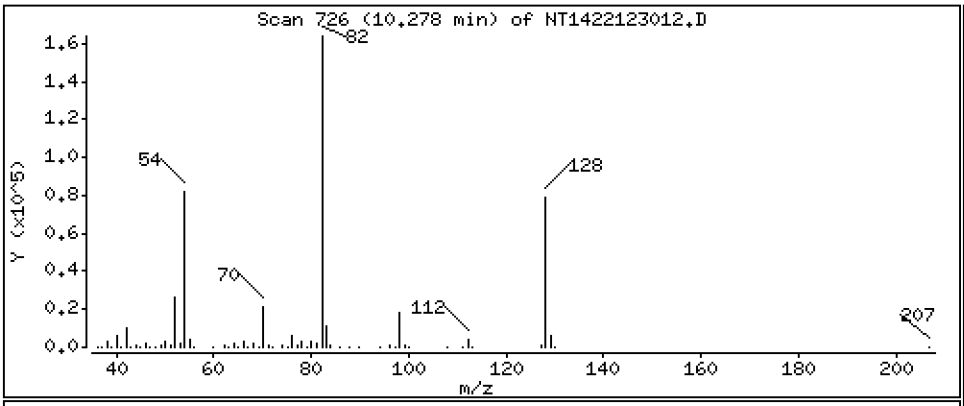
Operator: VTS

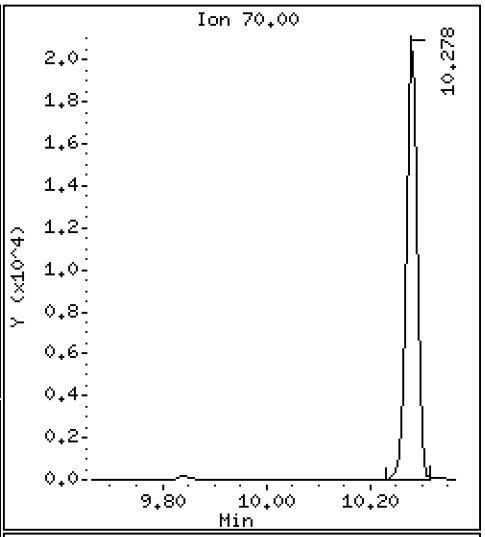
Column phase: ZB-5msi

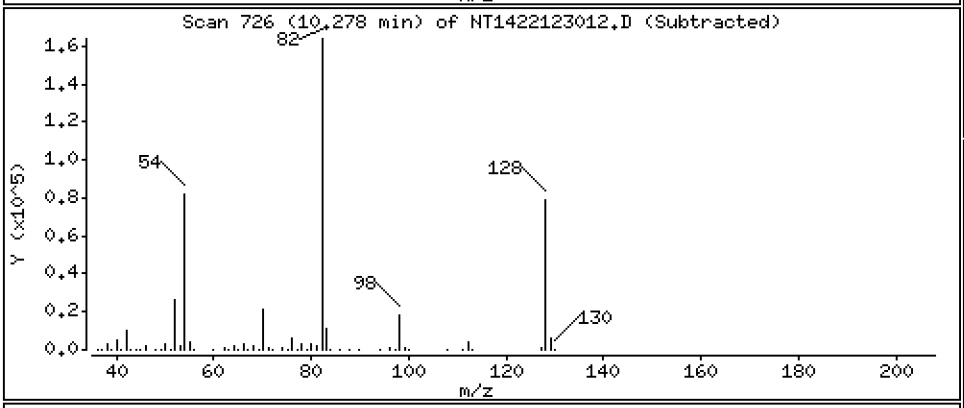
Column diameter: 0.25

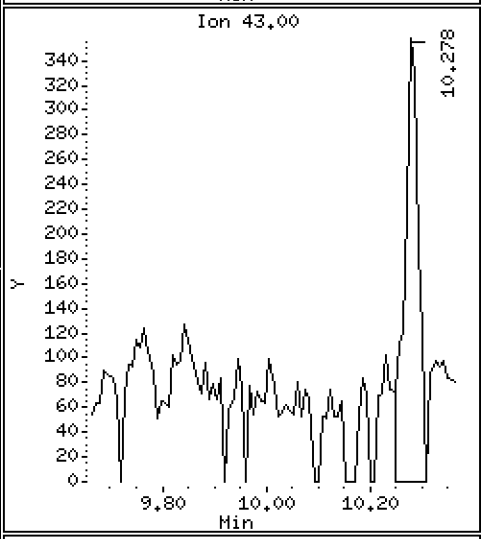
16 N-Nitroso-di-n-propylamine

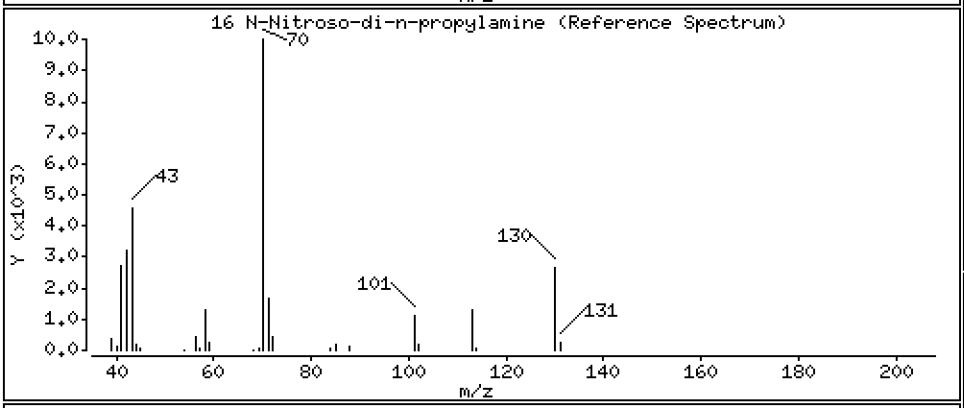
Concentration: 0.9150 ug/mL

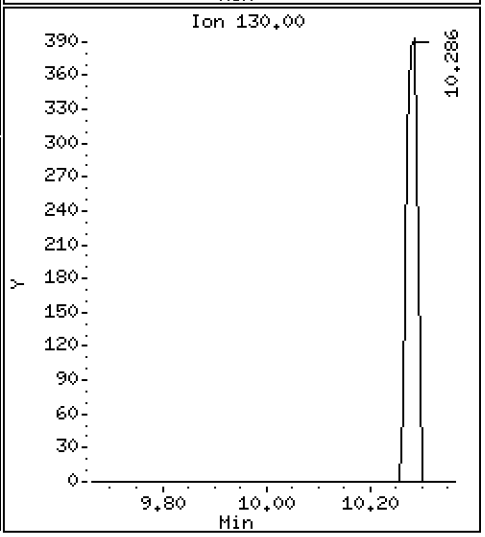


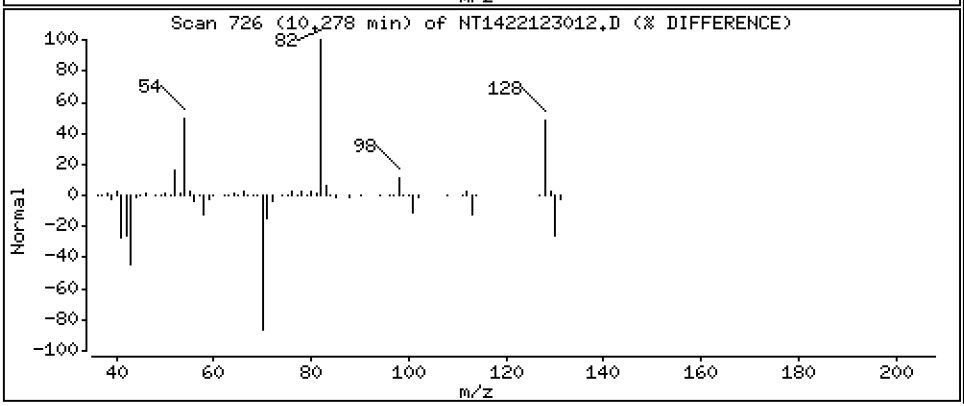












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

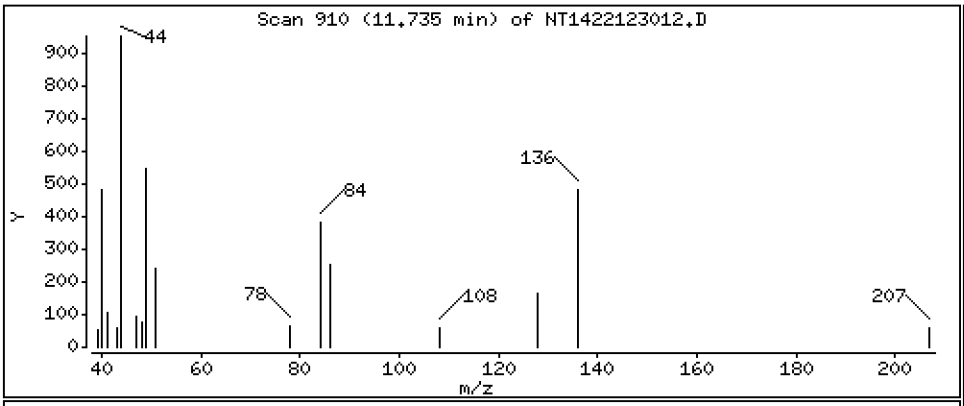
Operator: VTS

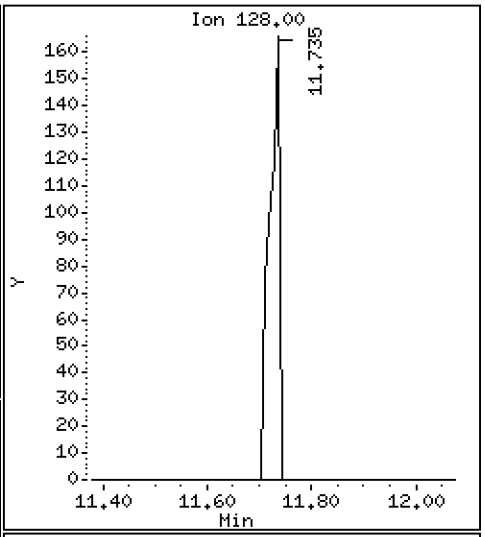
Column phase: ZB-5msi

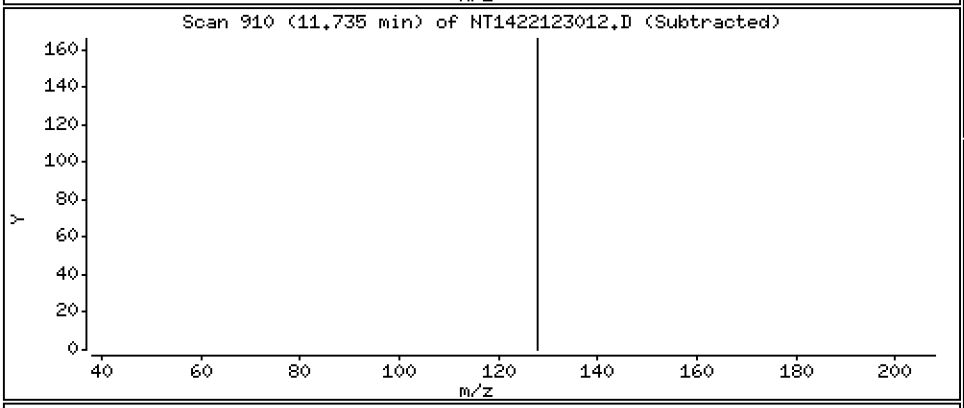
Column diameter: 0.25

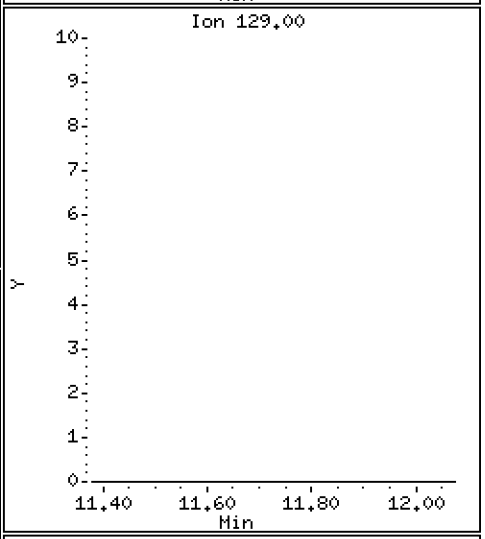
28 Naphthalene

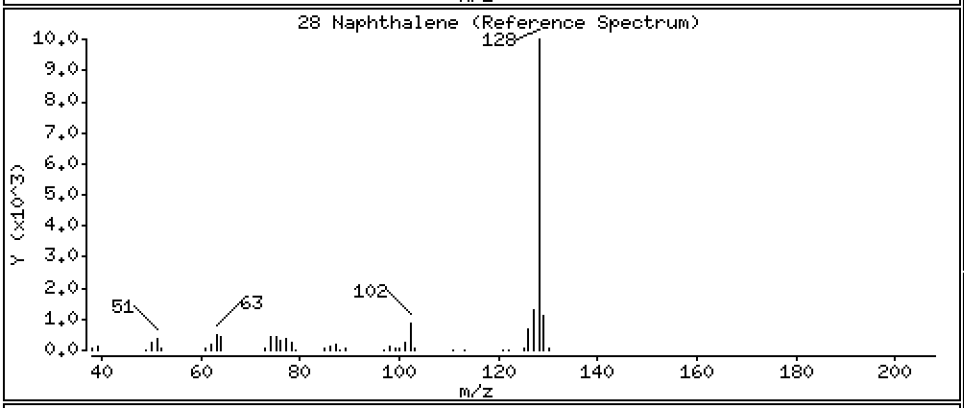
Concentration: 0.001336 ug/mL

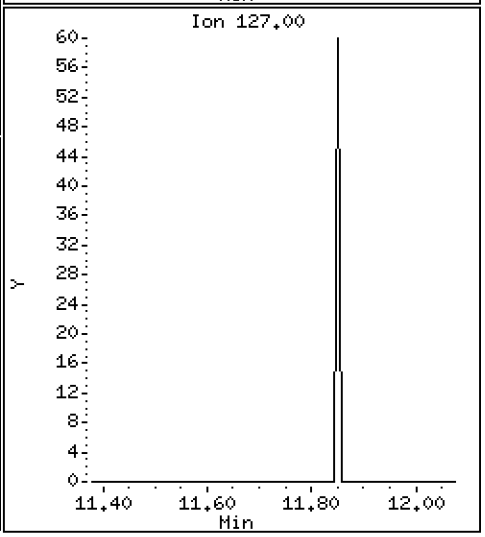


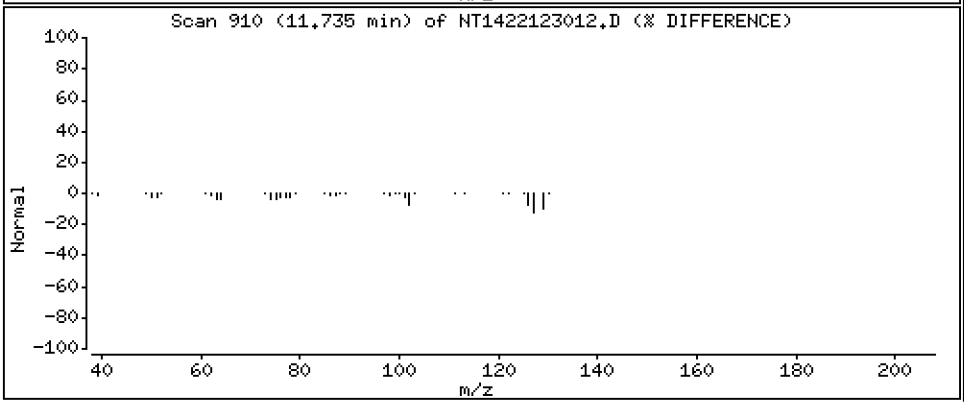












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

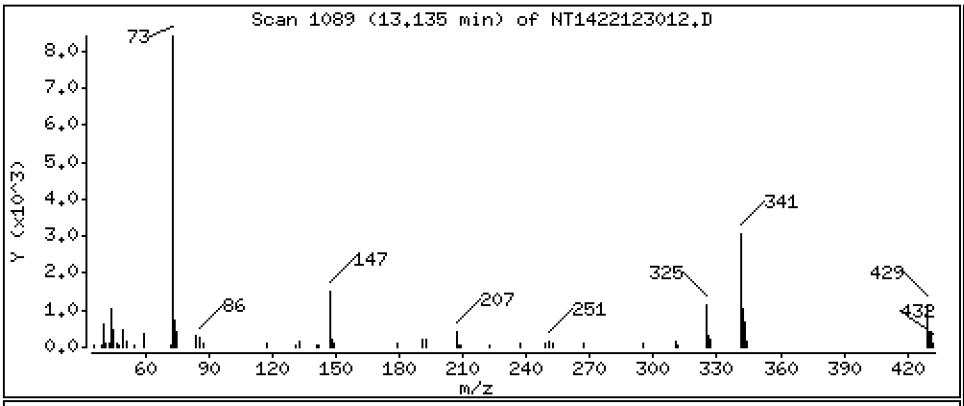
Operator: VTS

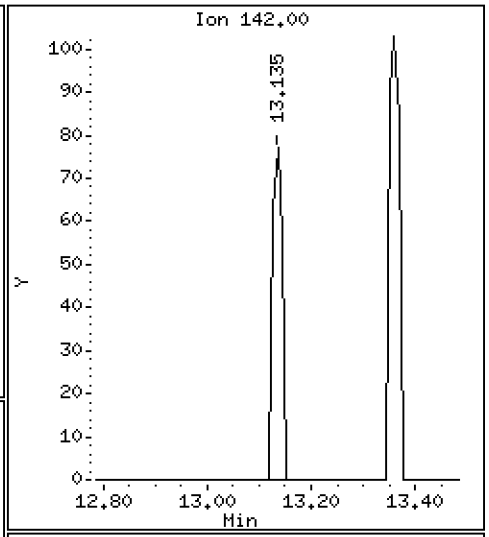
Column phase: ZB-5msi

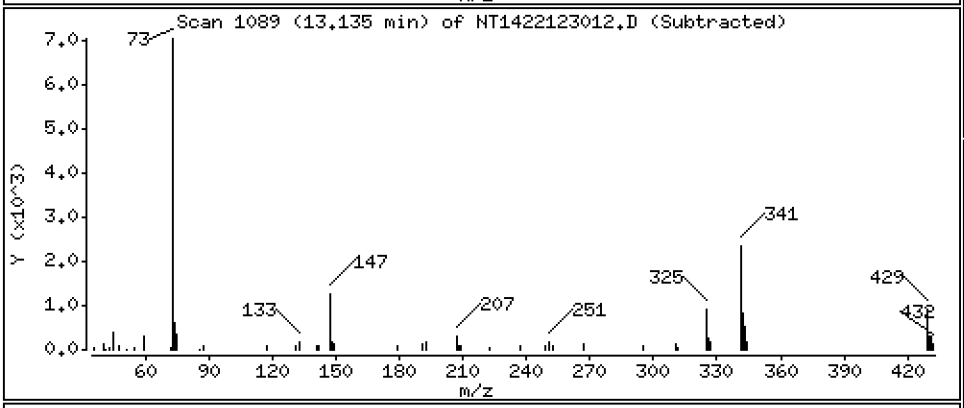
Column diameter: 0.25

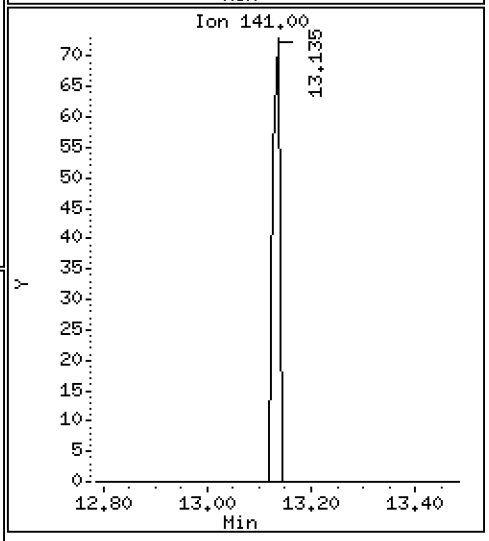
32 2-Methylnaphthalene

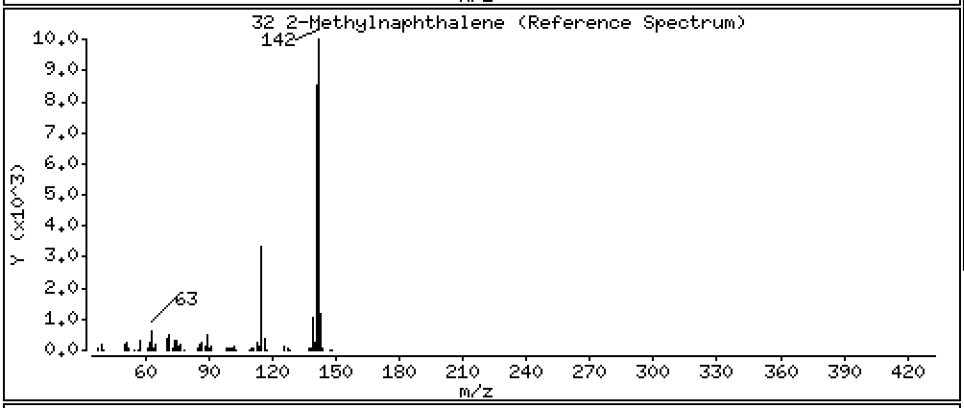
Concentration: 0.0007767 ug/mL

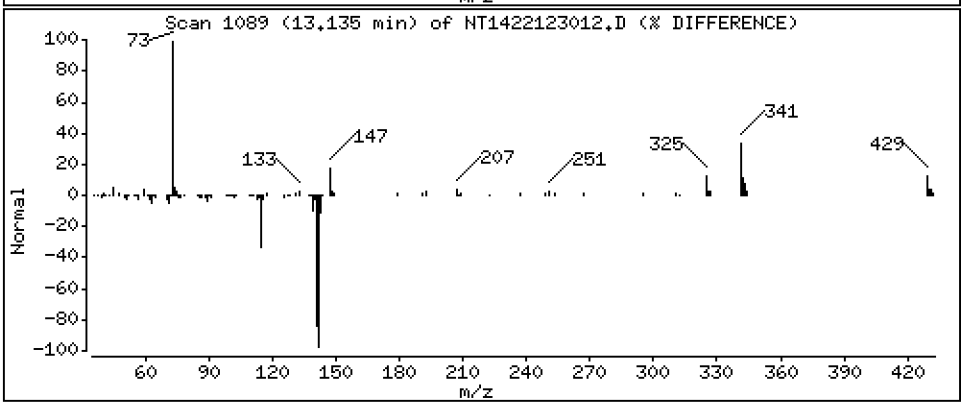












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

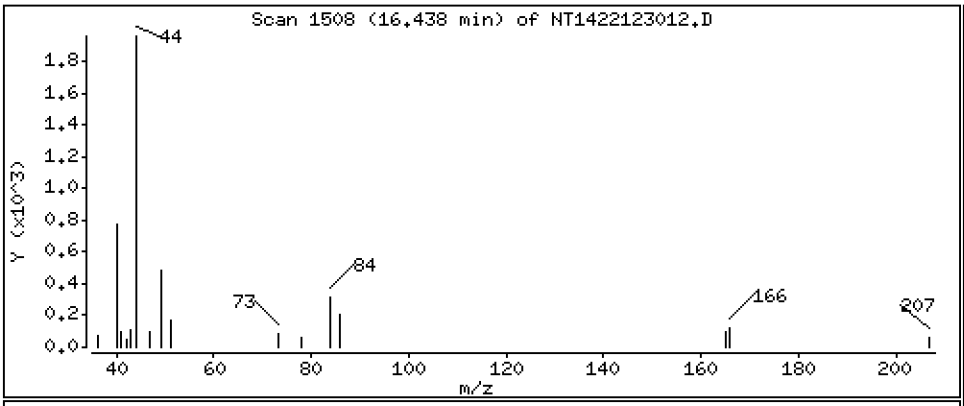
Operator: VTS

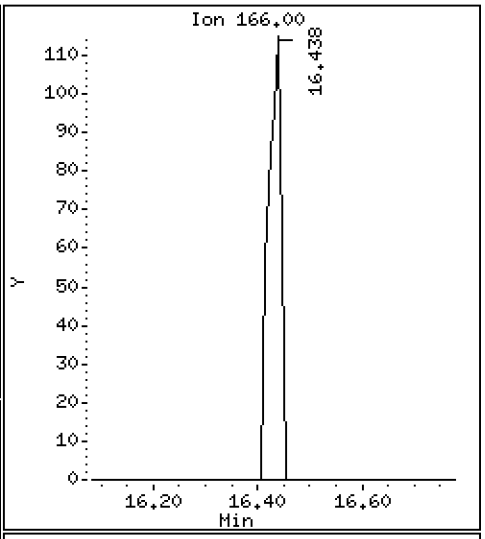
Column phase: ZB-5msi

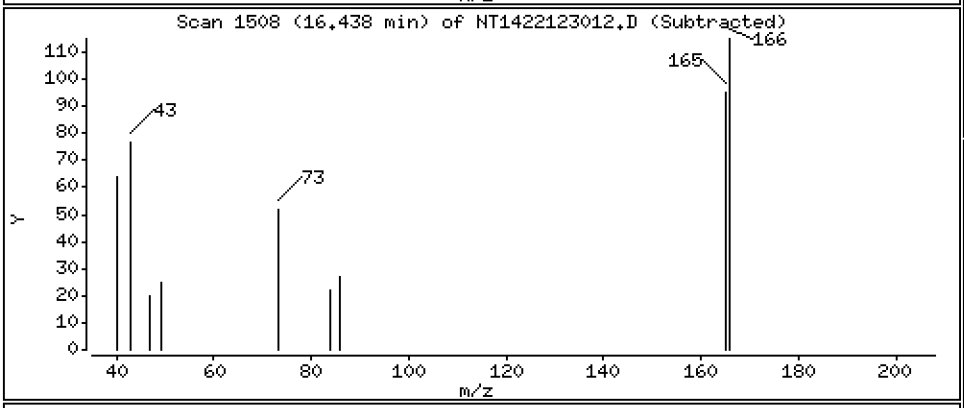
Column diameter: 0.25

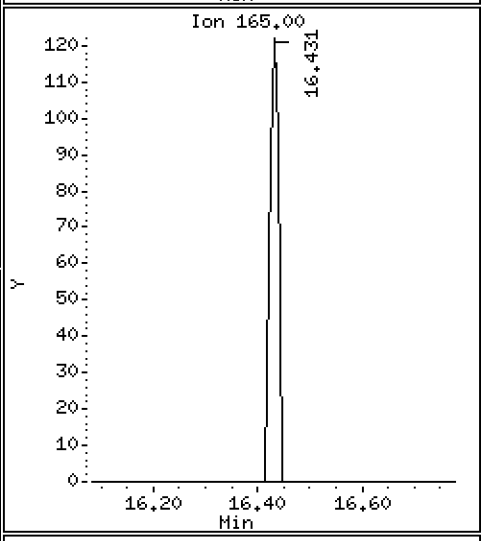
49 Fluorene

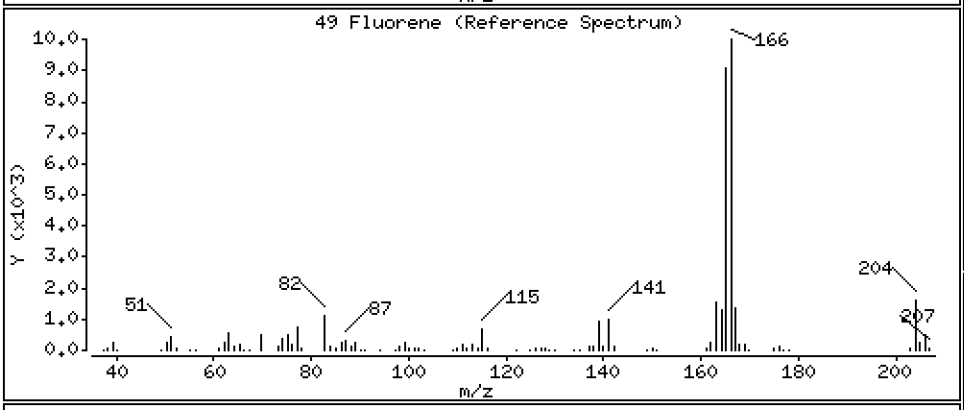
Concentration: 0.001319 ug/mL

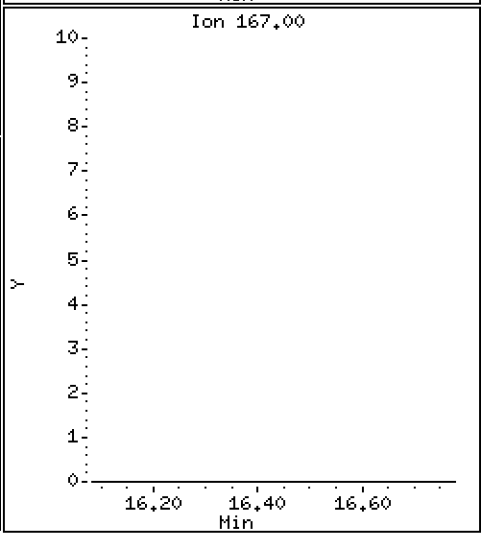


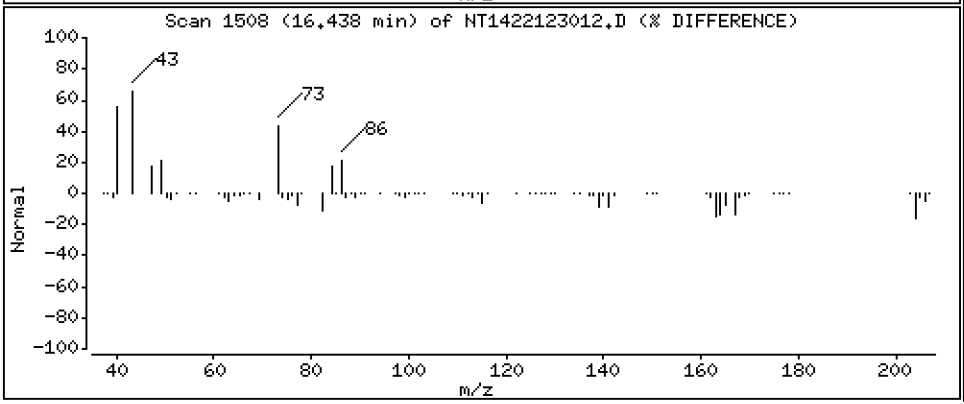












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

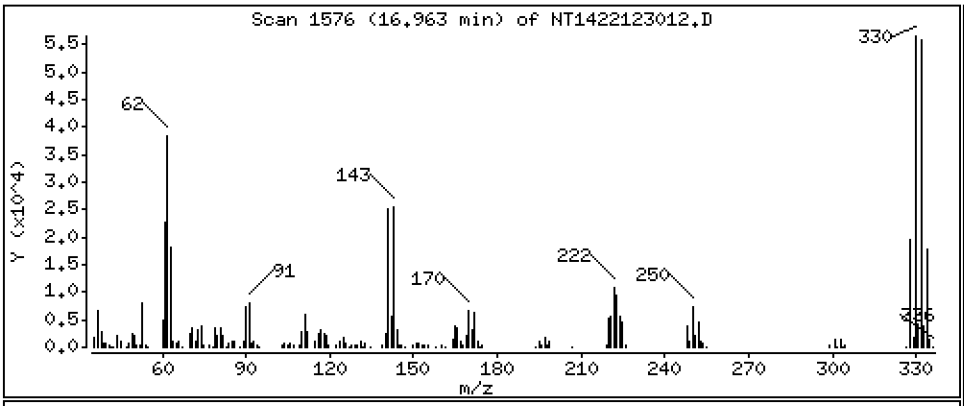
Operator: VTS

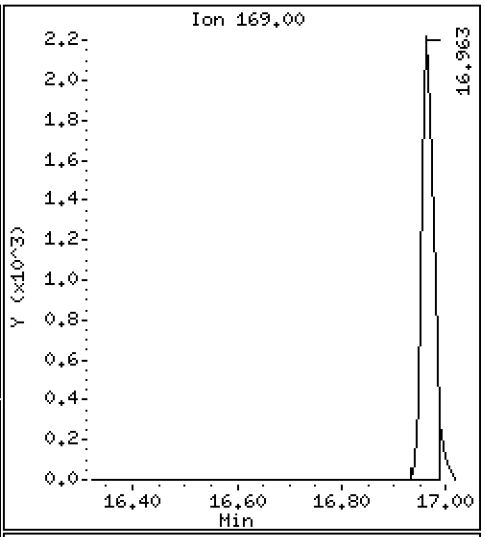
Column phase: ZB-5msi

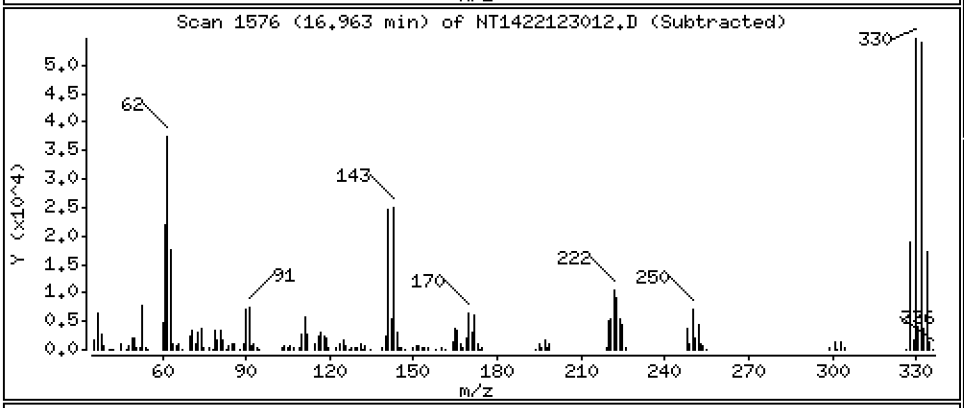
Column diameter: 0.25

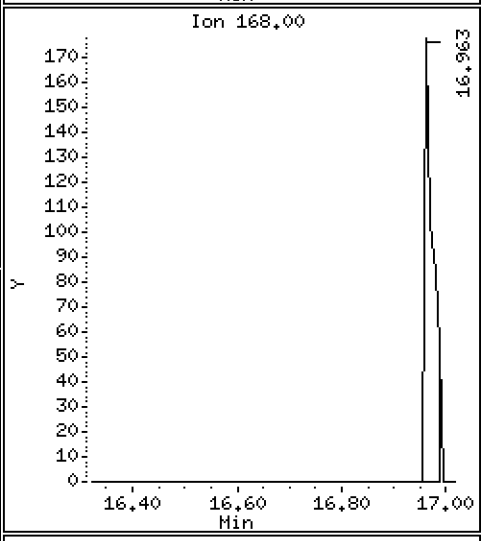
54 N-Nitrosodiphenylamine

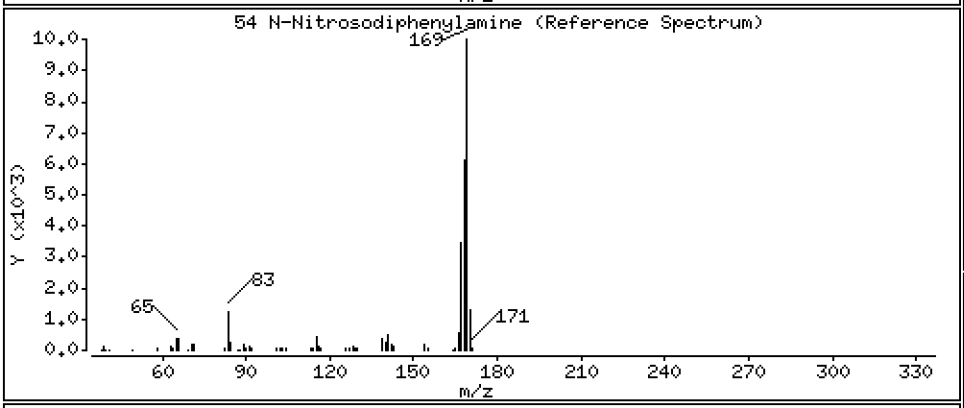
Concentration: 0.03543 ug/mL

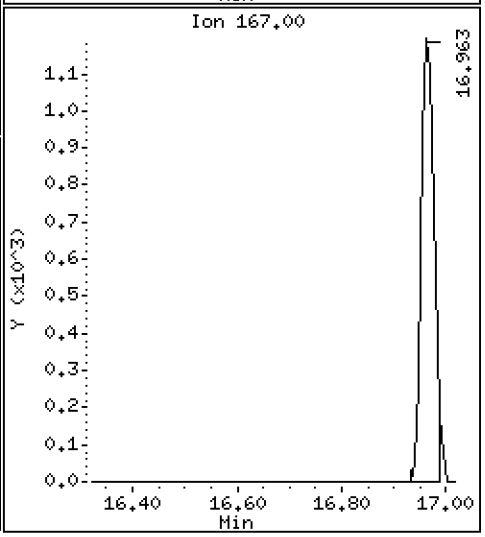


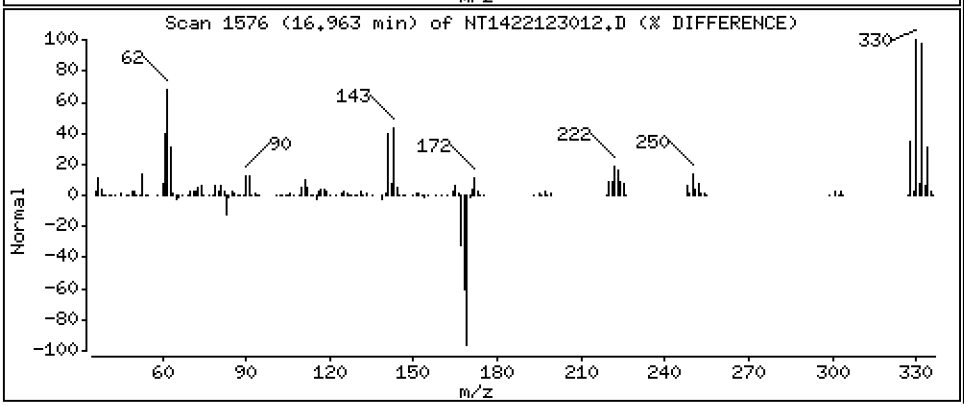












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

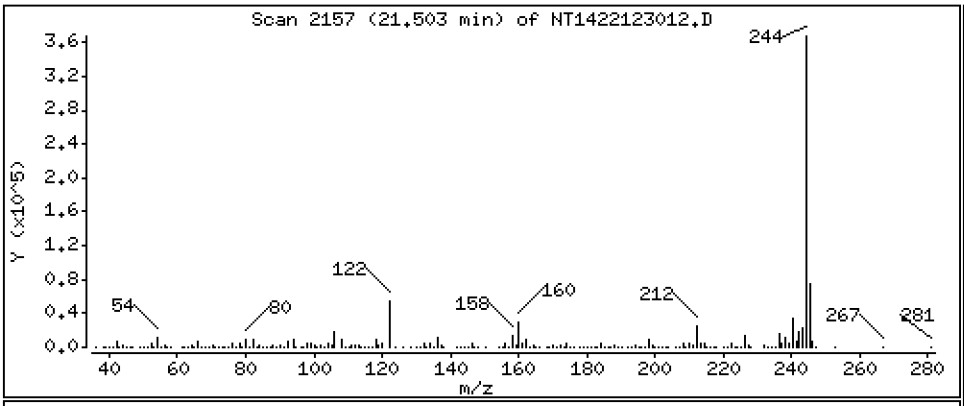
Operator: VTS

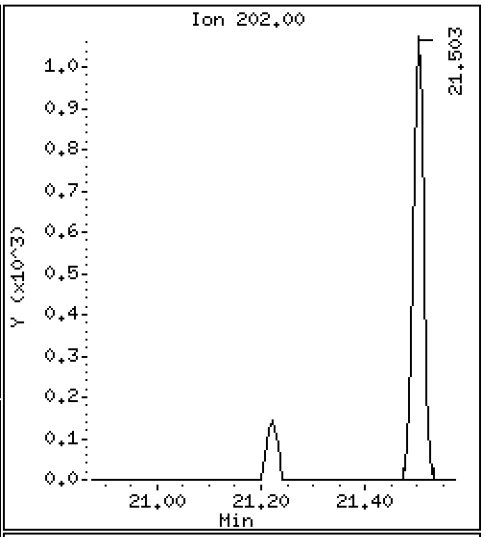
Column phase: ZB-5msi

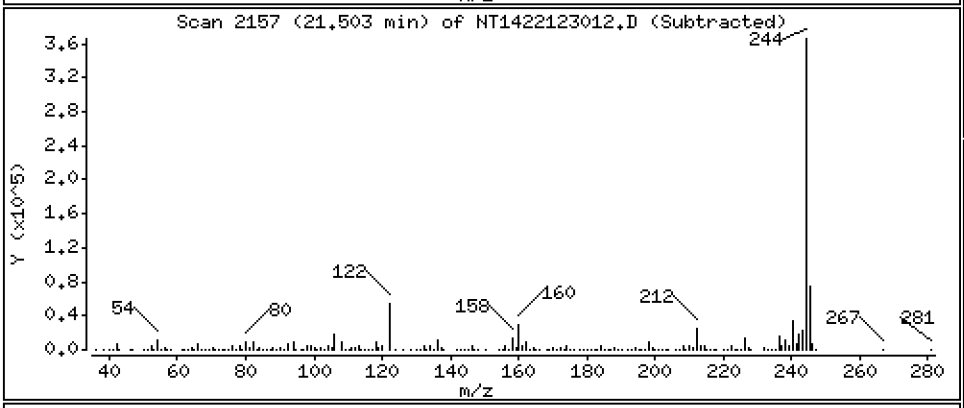
Column diameter: 0.25

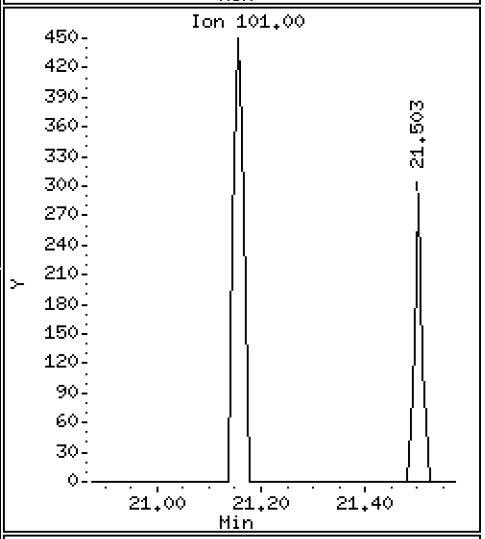
65 Pyrene

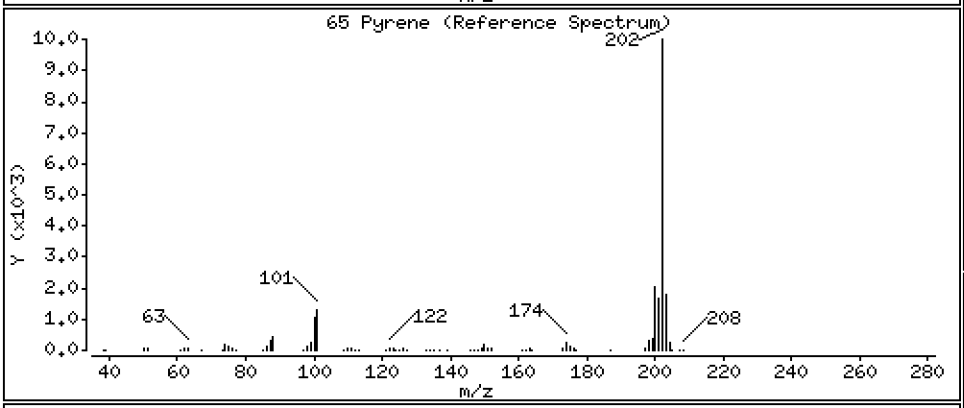
Concentration: 0.01055 ug/mL

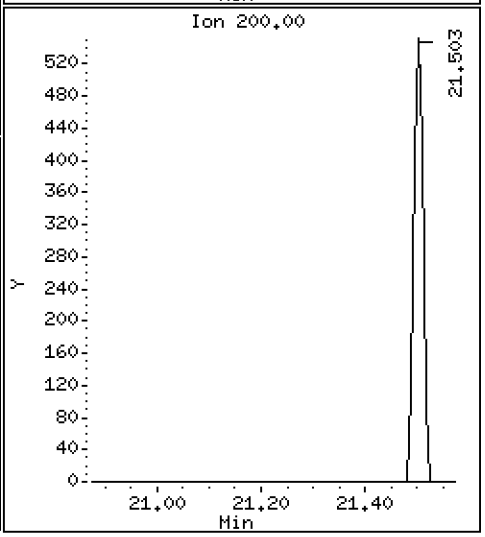


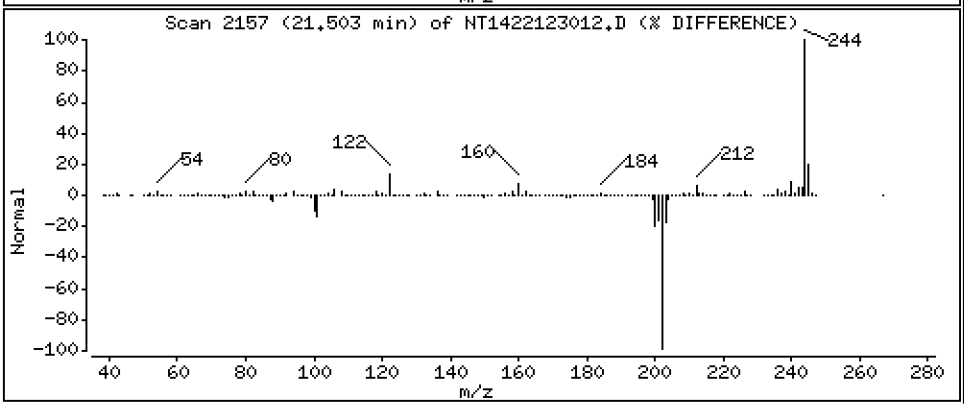












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

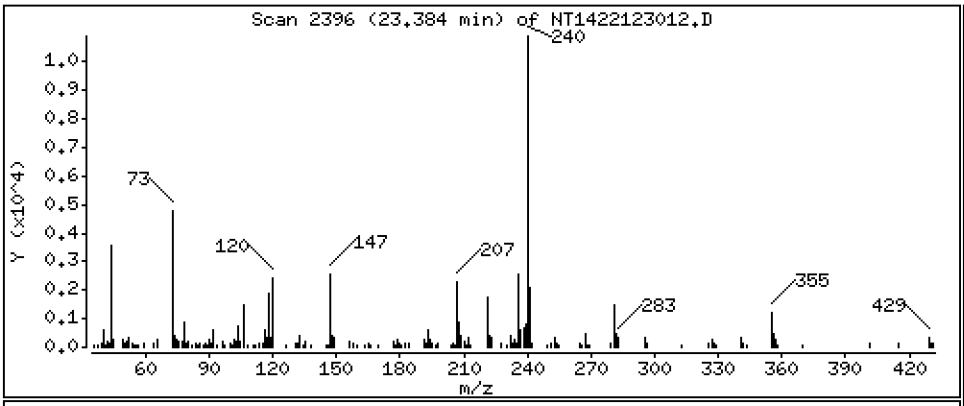
Operator: VTS

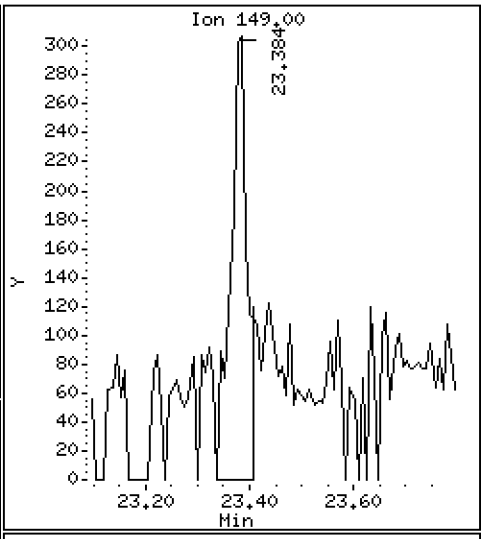
Column phase: ZB-5msi

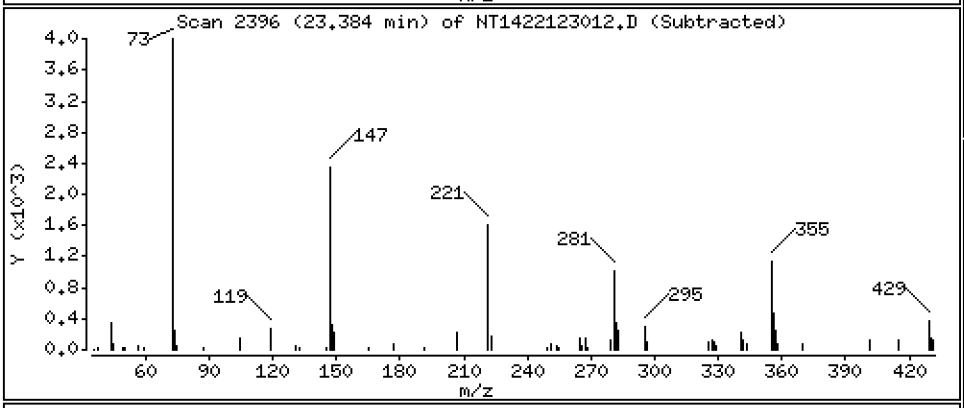
Column diameter: 0.25

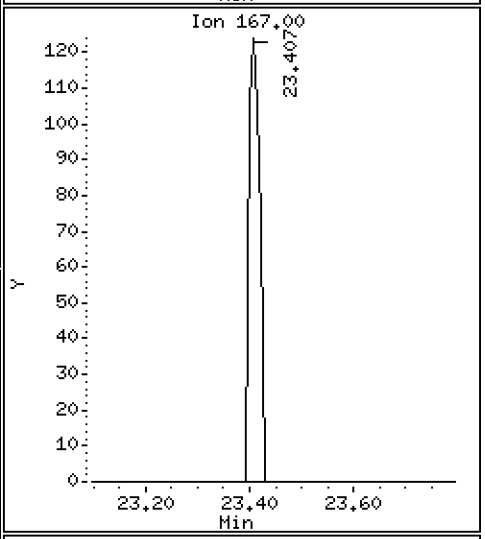
72 bis(2-Ethylhexyl)phthalate

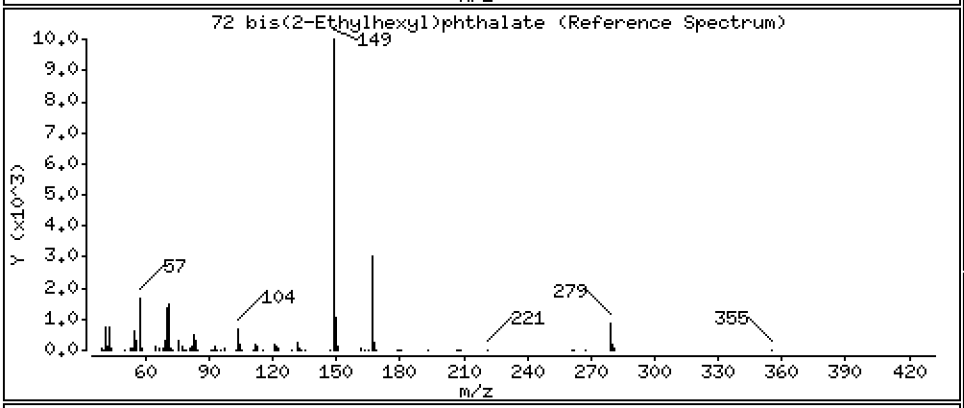
Concentration: 0.01128 ug/mL

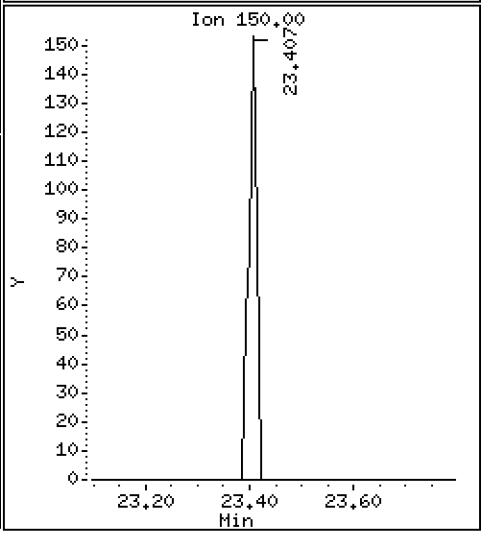


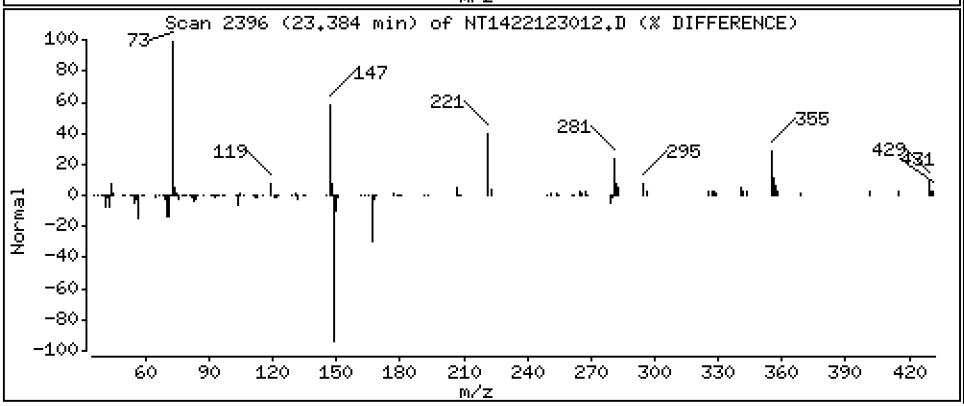












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

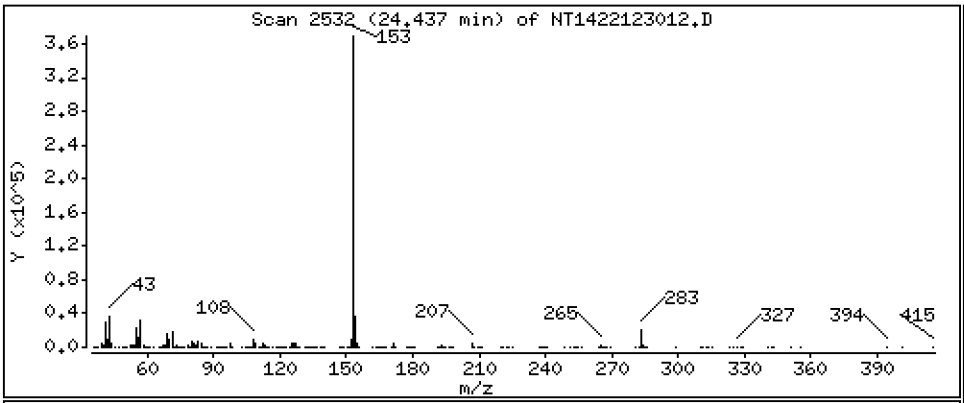
Operator: VTS

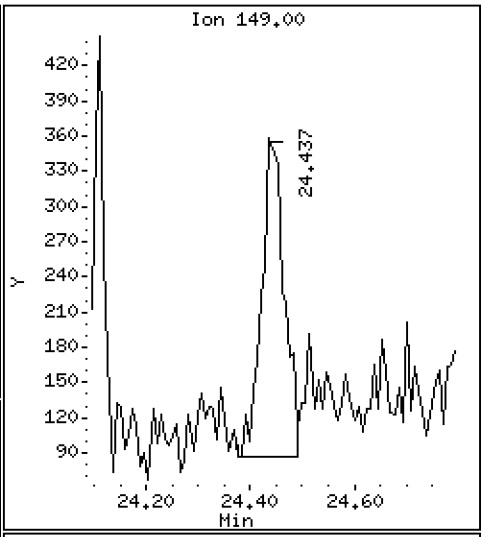
Column phase: ZB-5msi

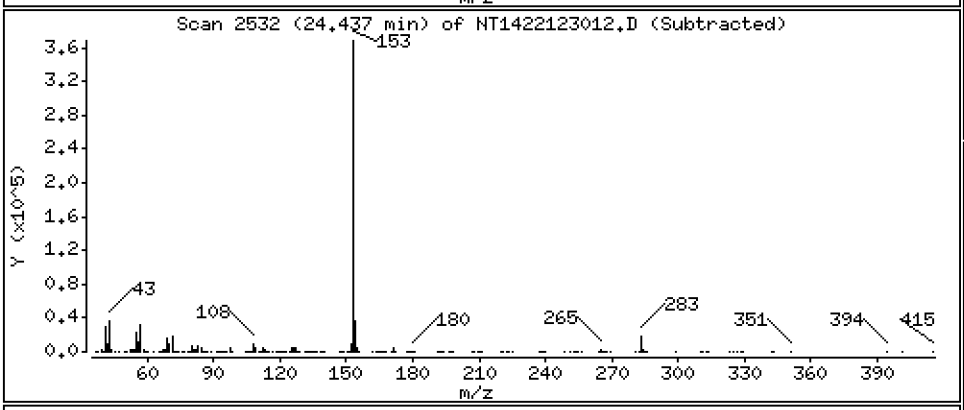
Column diameter: 0.25

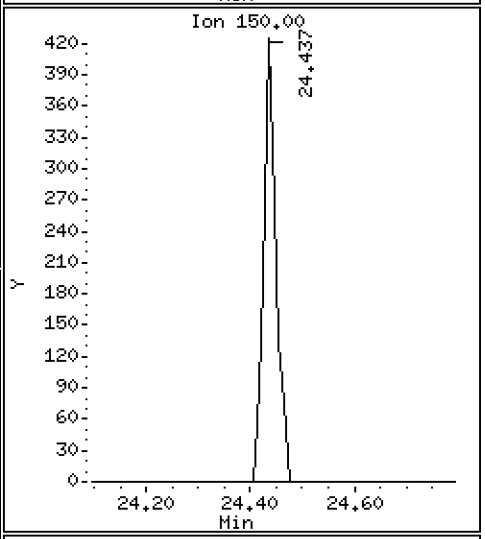
73 Di-n-octylphthalate

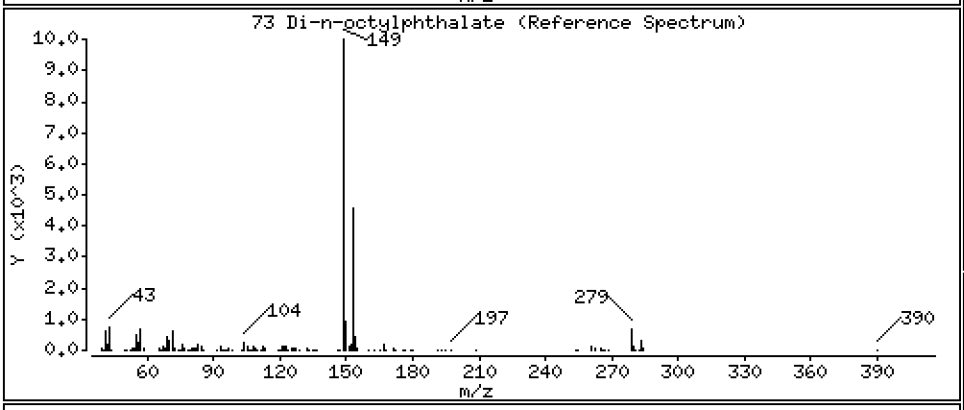
Concentration: 0.006180 ug/mL

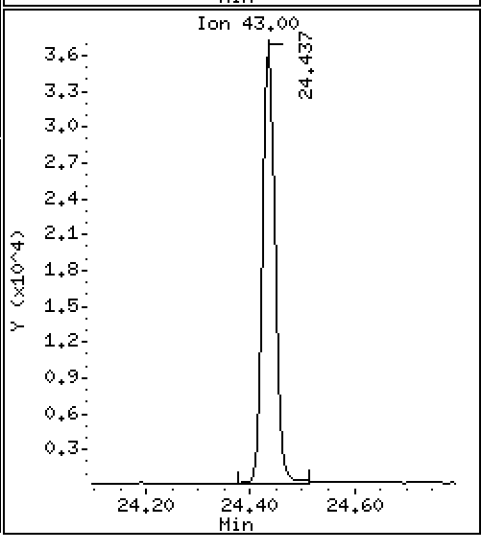


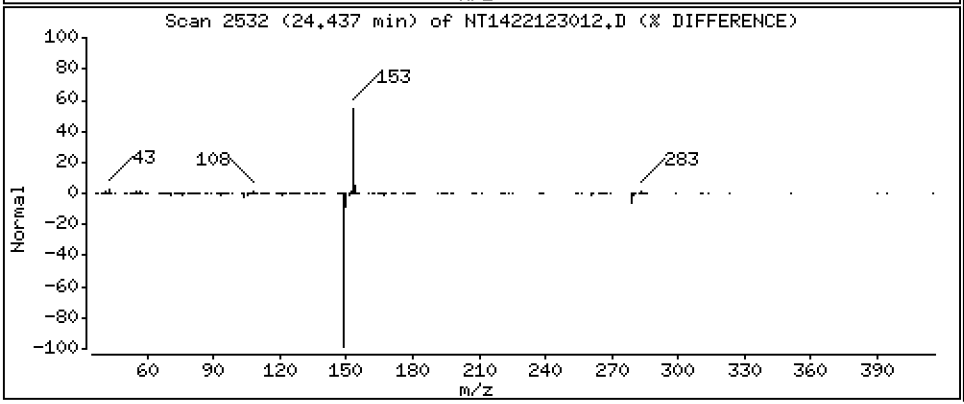












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

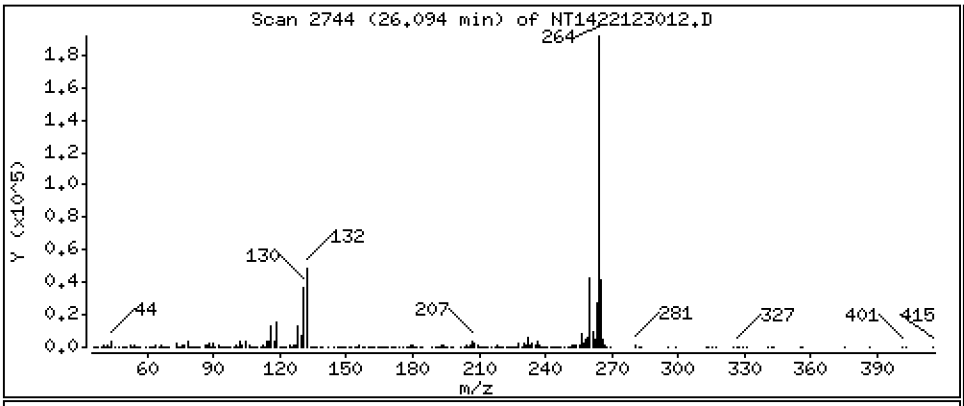
Operator: VTS

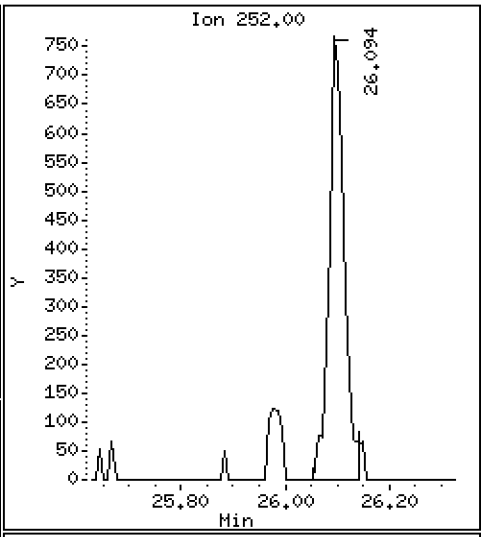
Column phase: ZB-5msi

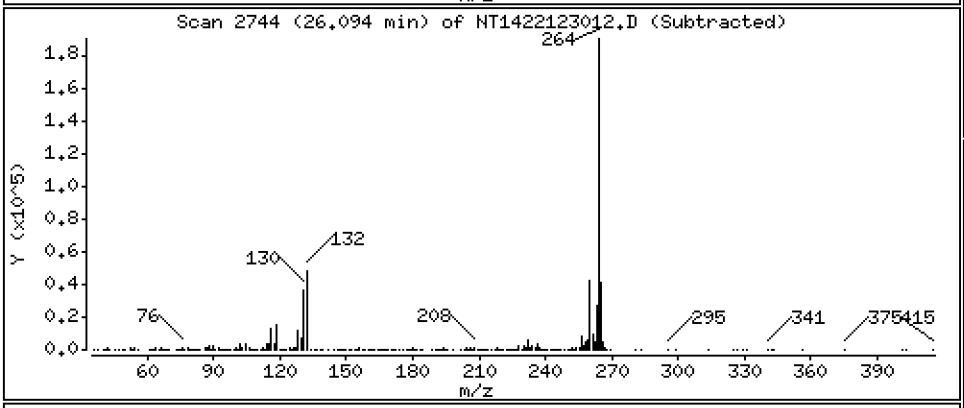
Column diameter: 0.25

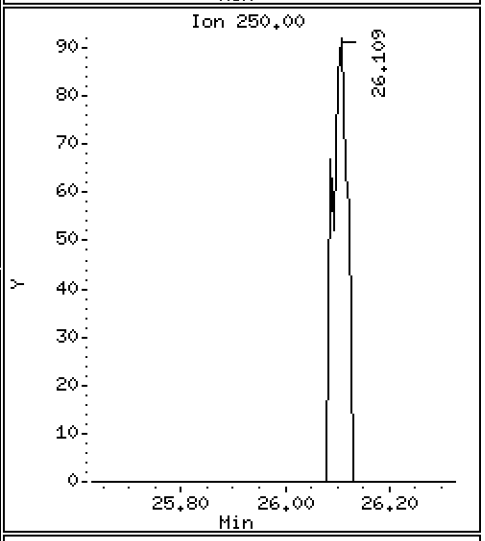
76 Benzo(a)pyrene

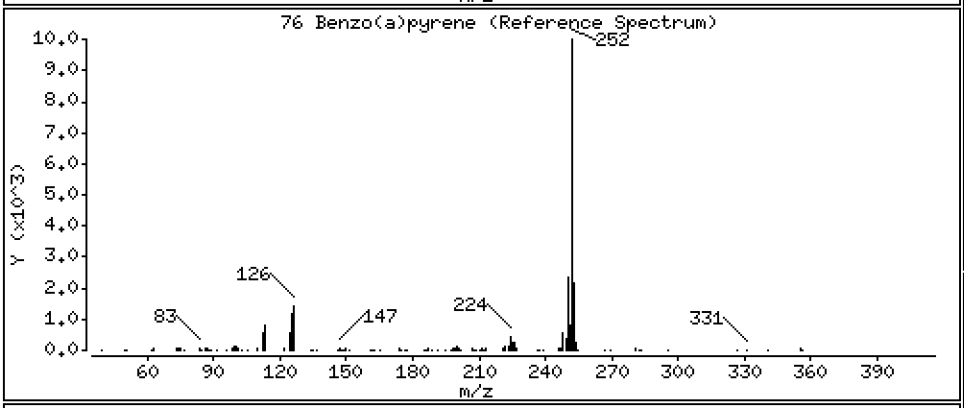
Concentration: 0.01457 ug/mL

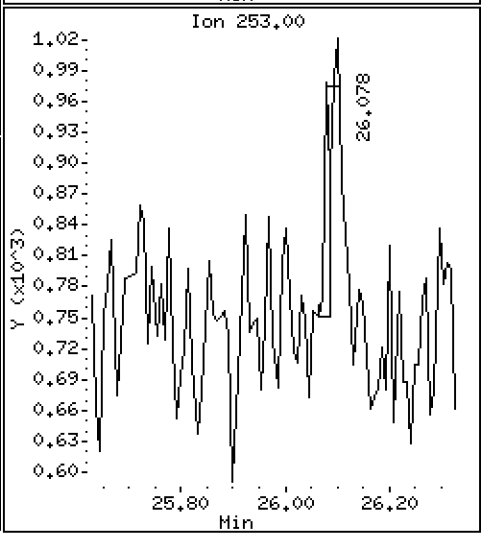


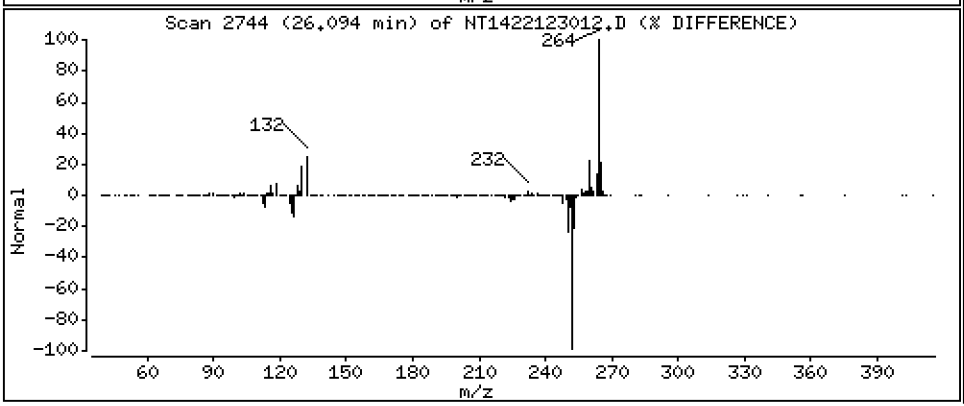












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D

Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

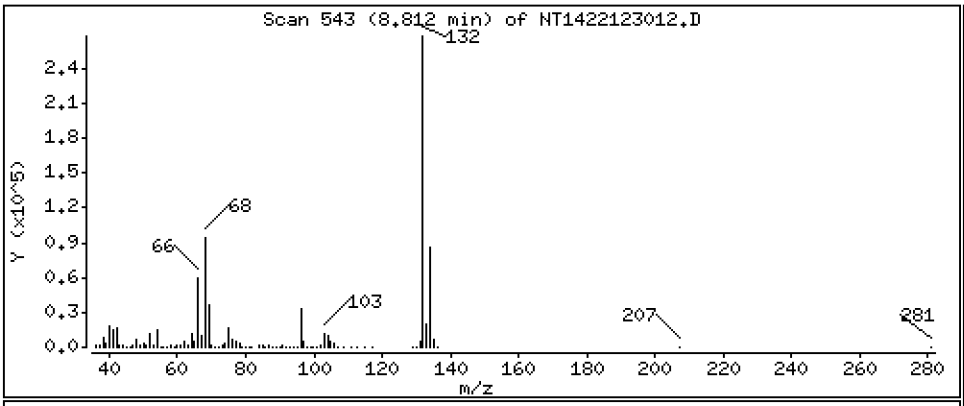
Operator: VTS

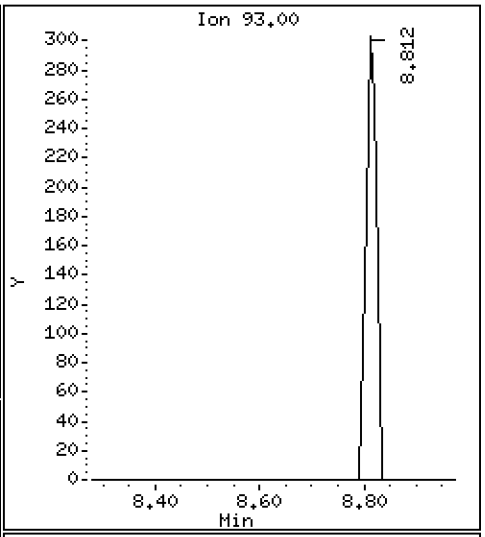
Column phase: ZB-5msi

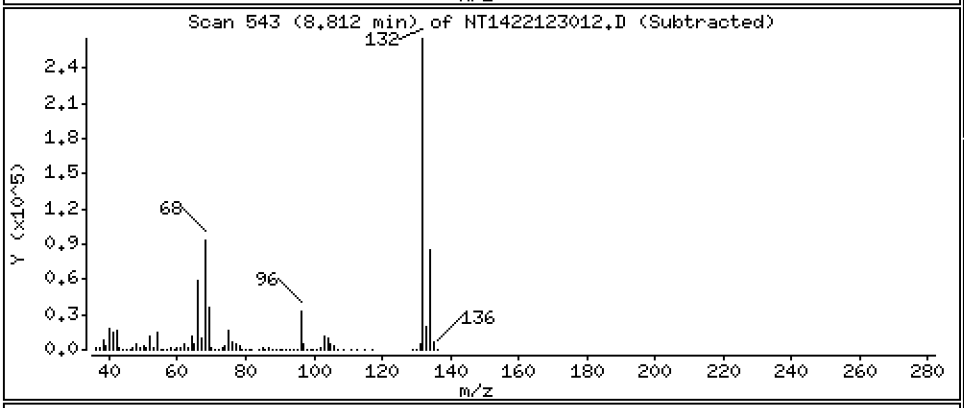
Column diameter: 0.25

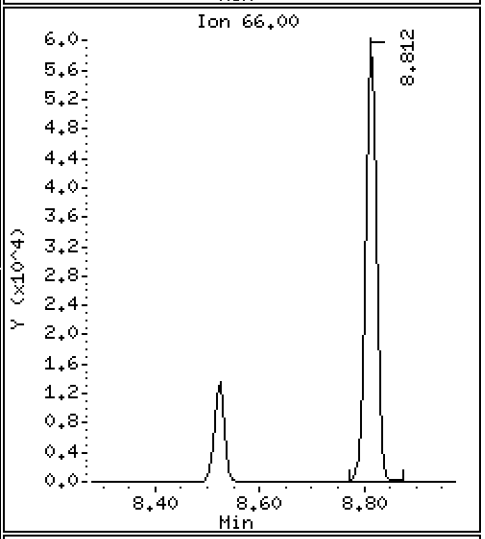
91 Aniline

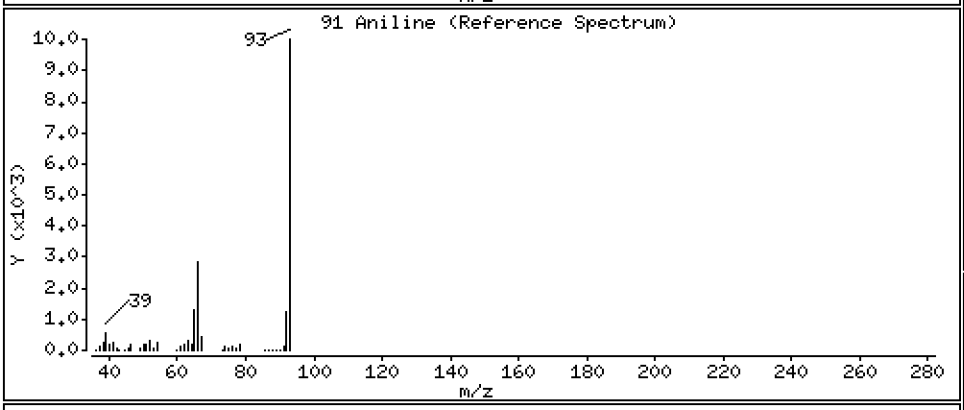
Concentration: 0.005926 ug/mL

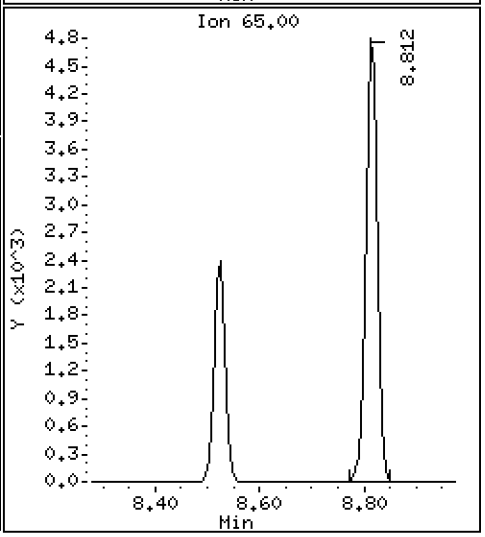


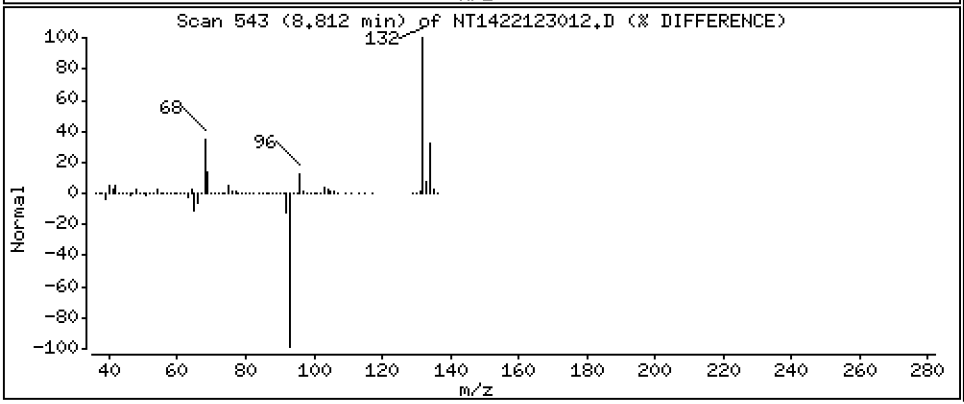












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

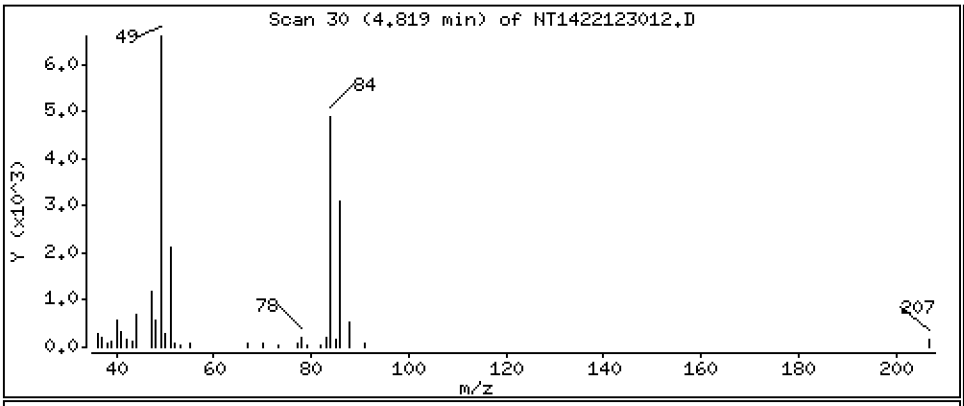
Operator: VTS

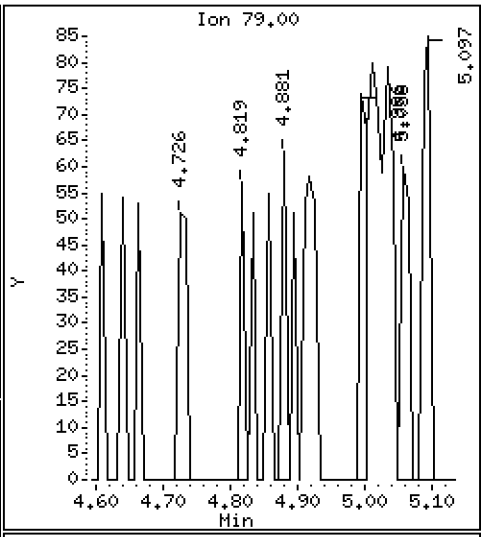
Column phase: ZB-5msi

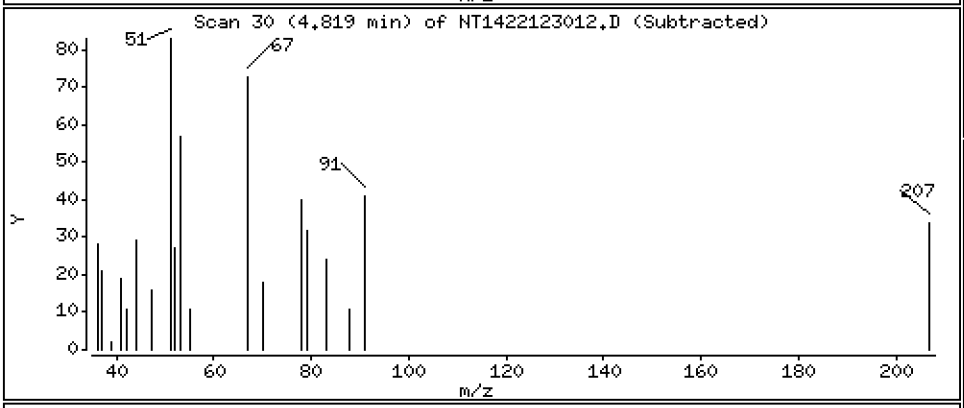
Column diameter: 0.25

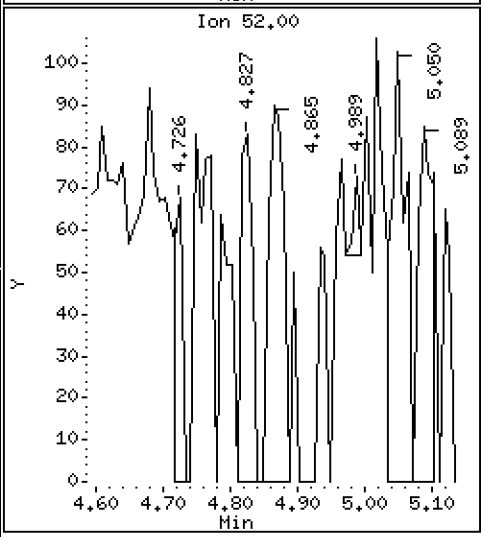
103 Pyridine

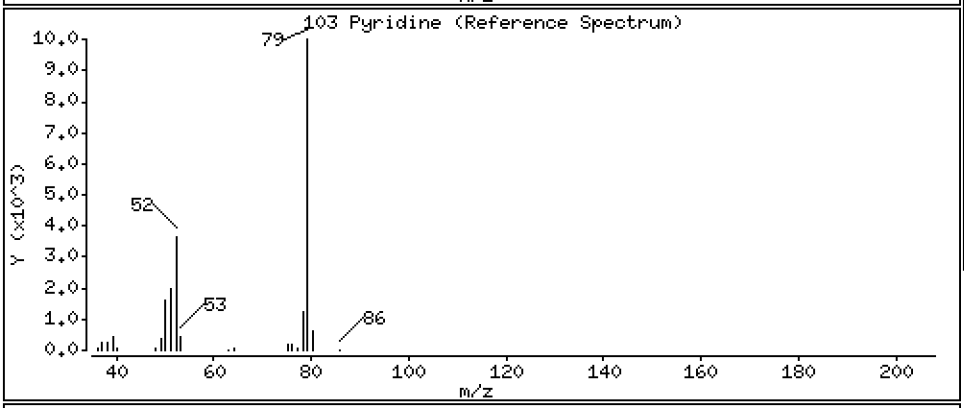
Concentration: 0.0002125 ug/mL

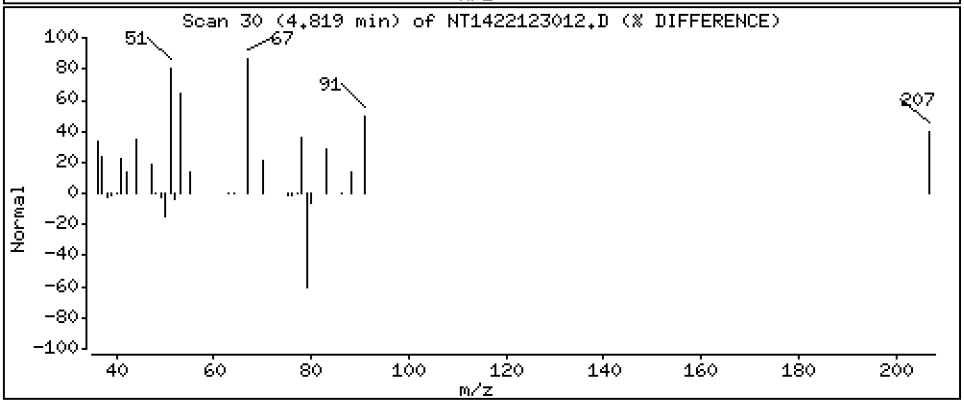












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Date : 30-DEC-2022 14:08

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICB1

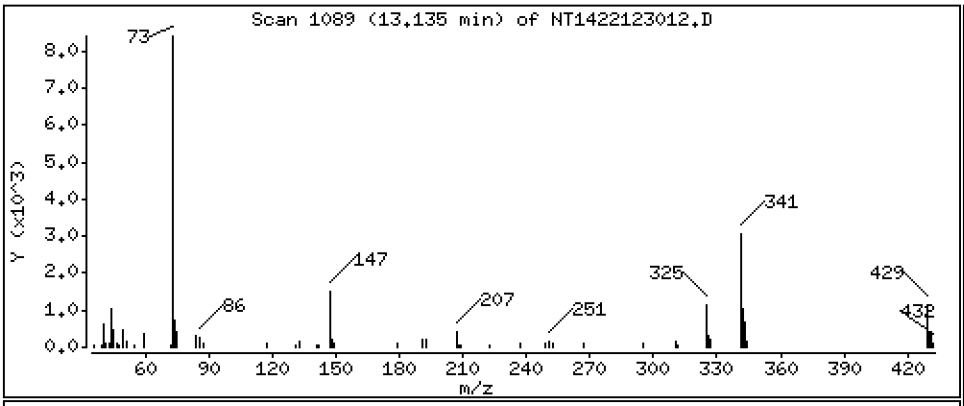
Operator: VTS

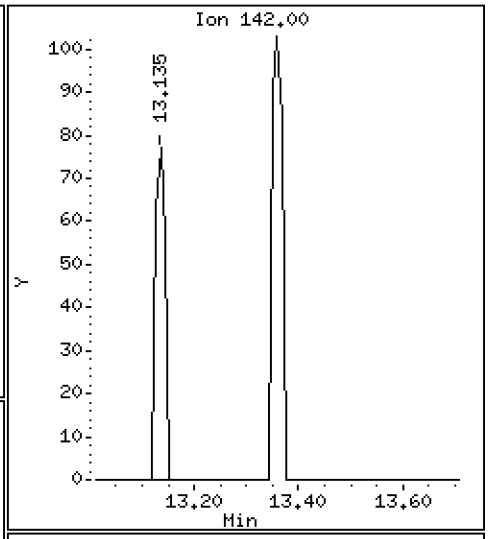
Column phase: ZB-5msi

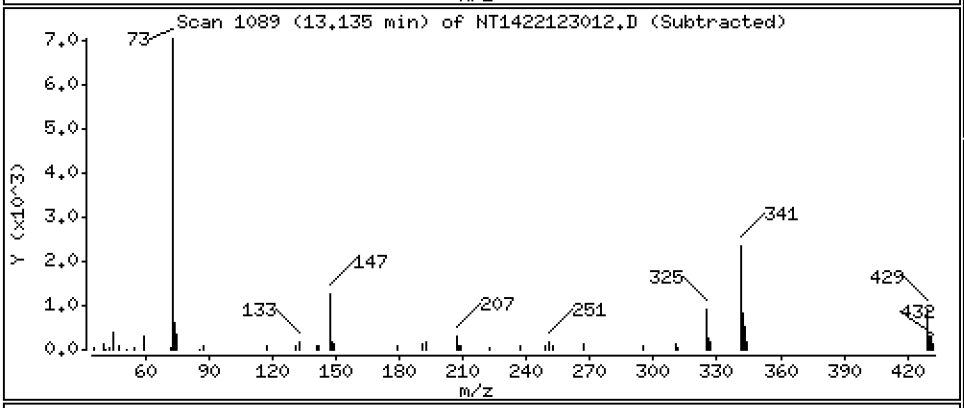
Column diameter: 0.25

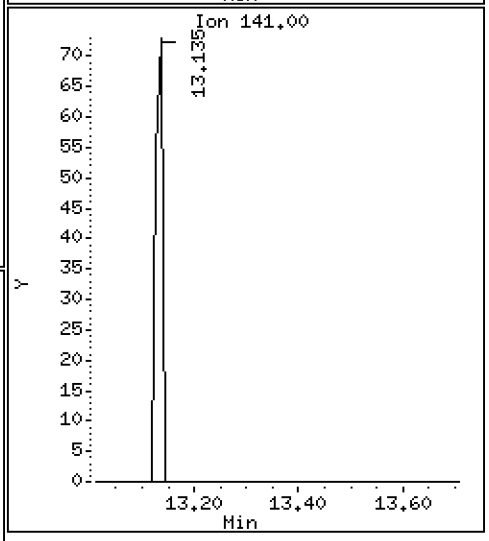
105 1-methylnaphthalene

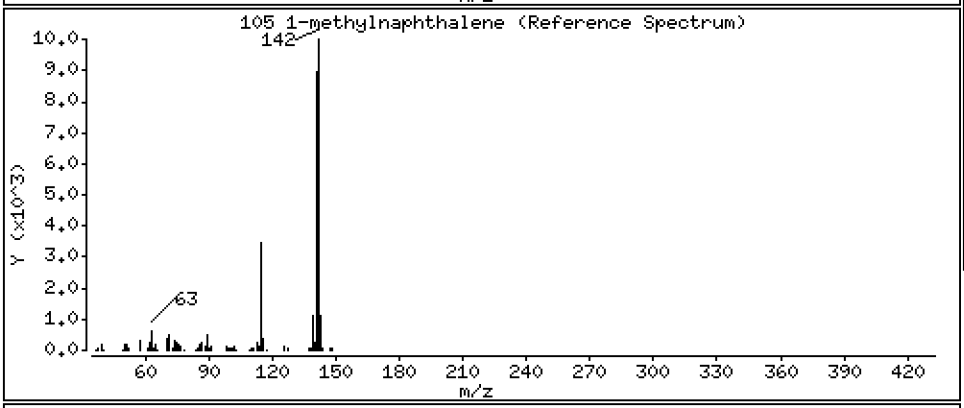
Concentration: 0.0008083 ug/mL

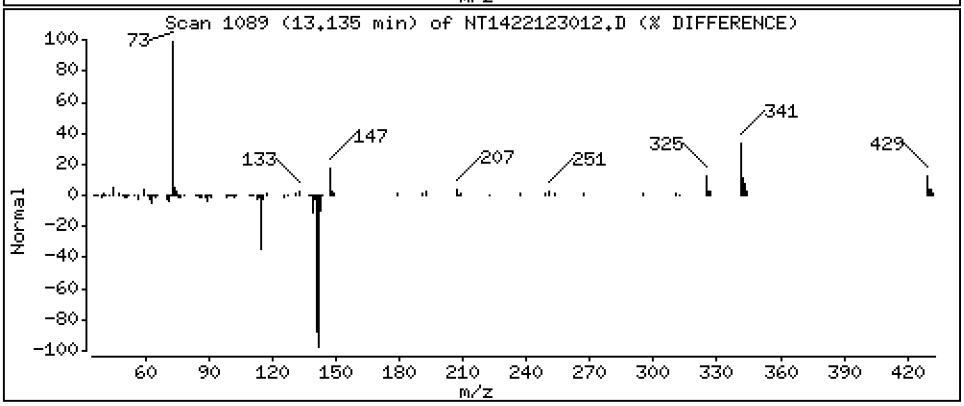












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123012.D
Lab Smp Id: SKL0355-ICB1
Inj Date : 30-DEC-2022 14:08 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 31-Dec-2022 11:40 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$ 1	2-Fluorophenol	112	6.934	6.935	(0.755)	370869	6.63357	6.634
$ 2	Phenol-d5	99	8.526	8.526	(0.928)	467490	6.76620	6.766
3	Phenol	94	8.541	8.542	(0.930)	202	0.00257	0.002573
$ 5	2-Chlorophenol-d4	132	8.812	8.812	(0.960)	403584	6.95517	6.955
4	Bis(2-Chloroethyl)ether	93	8.812	8.720	(0.960)	453	0.00838	0.008376
6	2-Chlorophenol	128	Compound Not Detected.					
7	1,3-Dichlorobenzene	146	Compound Not Detected.					
* 8	1,4-Dichlorobenzene-d4	152	9.183	9.184	(1.000)	174509	4.00000	
9	1,4-Dichlorobenzene	146	Compound Not Detected.					
$ 10	1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	176910	4.46069	4.461
12	1,2-Dichlorobenzene	146	Compound Not Detected.					
11	Benzyl alcohol	108	9.548	9.448	(1.040)	1528	0.04372	0.04372
14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
13	2-Methylphenol	108	Compound Not Detected.					
17	Hexachloroethane	117	Compound Not Detected.					
16	N-Nitroso-di-n-propylamine	70	10.278	10.014	(1.119)	31797	0.91498	0.9150
15	4-Methylphenol	108	Compound Not Detected.					
$ 18	Nitrobenzene-d5	82	10.278	10.278	(0.879)	248621	4.58647	4.586
19	Nitrobenzene	77	Compound Not Detected.					
20	Isophorone	82	Compound Not Detected.					
21	2-Nitrophenol	139	Compound Not Detected.					
22	2,4-Dimethylphenol	107	Compound Not Detected.					
23	Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
24	Benzoic acid	105	Compound Not Detected.					
25	2,4-Dichlorophenol	162	Compound Not Detected.					
26	1,2,4-Trichlorobenzene	180	Compound Not Detected.					
* 27	Naphthalene-d8	136	11.688	11.689	(1.000)	641934	4.00000	
28	Naphthalene	128	11.735	11.728	(1.004)	211	0.00134	0.001336
29	4-Chloroaniline	127	Compound Not Detected.					
30	Hexachlorobutadiene	225	Compound Not Detected.					
31	4-Chloro-3-methylphenol	107	Compound Not Detected.					
32	2-Methylnaphthalene	142	13.135	13.135	(1.124)	90	8e-004	0.0007767
33	Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	13.916	13.917	(0.908)	519279	4.60432	4.604
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.325	15.325	(1.000)	335436	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	16.438	16.431	(1.073)	191	0.00132	0.001319
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	16.962	16.670	(0.923)	3405	0.03543	0.03543
$	55	2,4,6-Tribromophenol	330	16.962	16.963	(1.107)	92025	5.68327	5.683
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.369	18.369	(1.000)	560033	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	21.502	21.224	(0.919)	1588	0.01055	0.01055
$	66	Terphenyl-d14	244	21.502	21.503	(0.919)	509644	4.77642	4.776
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	444498	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.384	23.446	(0.957)	678	0.01128	0.01128
*	134	Di-n-octylphthalate-d4	153	24.436	24.437	(1.000)	541261	4.00000	
	73	Di-n-octylphthalate	149	24.436	24.445	(1.000)	803	0.00618	0.006180
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	26.093	25.978	(1.000)	1610	0.01457	0.01457
*	77	Perylene-d12	264	26.101	26.102	(1.000)	423100	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.812	8.627	(0.960)	453	0.00593	0.005926
	93	Benzidine	184	Compound Not Detected.					
	103	Pyridine	79	4.818	4.788	(0.525)	26	2e-004	0.0002125
	105	1-methylnaphthalene	142	13.135	13.360	(1.124)	90	8e-004	0.0008083
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123012.D
Lab Smp Id: SKL0355-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	174509	15.56
27 Naphthalene-d8	553510	276755	1107020	641934	15.98
42 Acenaphthene-d10	305411	152706	610822	335436	9.83
59 Phenanthrene-d10	491708	245854	983416	560033	13.90
69 Chrysene-d12	424740	212370	849480	444498	4.65
134 Di-n-octylphthala	684951	342476	1369902	541261	-20.98
77 Perylene-d12	395150	197575	790300	423100	7.07

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	-0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	-0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	-0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	-0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123012.D

Lab ID: SKL0355-ICB1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 14:08

RT	CO-ELUTION COMPOUNDS
13.135	1-methylnaphthalene and 2-Methylnaphthalene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.960	0.949	0.0101	Bis(2-Chloroethyl)ether
1.040	1.029	0.0110	Benzyl alcohol
1.119	1.090	0.0287	N-Nitroso-di-n-propylamine
0.923	0.907	0.0160	N-Nitrosodiphenylamine
0.919	0.907	0.0119	Pyrene
0.960	0.939	0.0202	Aniline
1.124	1.143	-0.0192	1-methylnaphthalene

RRT check based on Ccal File: NT1422123007.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Phenol	0.2	0.9229164	0.5	1.239353	1	1.330262	2.5	1.410262	5	1.547525	10	1.595074
bis(2-chloroethyl) ether	0.2	1.545684	0.5	1.409075	1	1.35644	2.5	1.203466	5	1.164592	10	1.196633
2-Chlorophenol	0.2	1.174913	0.5	1.293318	1	1.476272	2.5	1.430667	5	1.480173	10	1.560992
1,3-Dichlorobenzene	0.2	1.616909	0.5	1.57405	1	1.520461	2.5	1.504112	5	1.462136	10	1.462717
1,4-Dichlorobenzene	0.2	1.440753	0.5	1.324714	1	1.304251	2.5	1.2772	5	1.273382	10	1.216468
1,2-Dichlorobenzene	0.2	1.540669	0.5	1.283075	1	1.30999	2.5	1.31472	5	1.261051	10	1.246058
Benzyl Alcohol	0.2	0.1560933	0.5	0.463196	1	0.5264921	2.5	0.6129259	5	0.6845444	10	0.7936323
2,2'-Oxybis(1-chloropropane)	0.2	0.437984	0.5	0.3740878	1	0.3993298	2.5	0.3702057	5	0.3713734	10	0.3636222
2-Methylphenol	0.2	0.7287027	0.5	1.008422	1	1.00955	2.5	1.031191	5	1.0497	10	1.074458
Hexachloroethane	0.2	0.6239718	0.5	0.534899	1	0.540733	2.5	0.5326154	5	0.5609932	10	0.5681049
N-Nitroso-di-n-Propylamine	0.2	0.473095	0.5	0.497257	1	0.5253613	2.5	0.5180956	5	0.5424339	10	0.5531375
4-Methylphenol	0.2	0.7046266	0.5	0.6554032	1	0.6602304	2.5	0.6511004	5	0.6694591	10	0.7976444
Nitrobenzene	0.2	0.1980464	0.5	0.20195	1	0.2410165	2.5	0.2382845	5	0.2428896	10	0.2609289
Isophorone	0.2	0.2416548	0.5	0.2831191	1	0.3387961	2.5	0.3472285	5	0.3745798	10	0.4088641
2-Nitrophenol	0.2	0.1004441	0.5	0.1586875	1	0.1848393	2.5	0.1997874	5	0.209349	10	0.252918
2,4-Dimethylphenol			1	0.2579355	2	0.3032868	5	0.305593	10	0.3156379	20	0.3177527
Bis(2-Chloroethoxy)methane	0.2	0.2310627	0.5	0.2621546	1	0.2783309	2.5	0.2722901	5	0.2573633	10	0.2639167
2,4-Dichlorophenol	0.4	0.1129996	1	0.1678362	2	0.2254086	5	0.2395374	10	0.2486878	20	0.2503859
1,2,4-Trichlorobenzene	0.2	0.2586539	0.5	0.2666579	1	0.275687	2.5	0.24011	5	0.2417251	10	0.2527161
Naphthalene	0.2	0.8787825	0.5	0.8819299	1	0.869741	2.5	0.8394223	5	0.8472497	10	0.8405889
Benzoic acid	0.8	2.958037E-03	2	4.104363E-03	4	1.246962E-03	10	2.815755E-02	20	9.735727E-02	40	0.1609449
4-Chloroaniline	0.4	0.1863951	1	0.244666	2	0.3821482	5	0.3365677	10	0.3667161	20	0.3835737
Hexachlorobutadiene	0.2	9.460552E-02	0.5	9.804565E-02	1	9.934597E-02	2.5	8.781244E-02	5	9.554771E-02	10	9.172429E-02
4-Chloro-3-Methylphenol	0.4	0.1020975	1	0.1764384	2	0.2086343	5	0.2328128	10	0.2585832	20	0.2844366
2-Methylnaphthalene	0.2	0.6445163	0.5	0.640543	1	0.6665278	2.5	0.6418256	5	0.6792009	10	0.7235181
Hexachlorocyclopentadiene	0.4	8.774343E-02	1	0.1241202	2	0.1720826	5	0.1938352	10	0.2252791	20	0.2386187

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
2,4,6-Trichlorophenol	0.4	0.1280993	1	0.2148389	2	0.3009467	5	0.3252962	10	0.3553849	20	0.355316
2,4,5-Trichlorophenol	0.4	9.642606E-02	1	0.2318928	2	0.30606	5	0.3284704	10	0.3973771	20	0.3874658
2-Chloronaphthalene	0.2	1.283928	0.5	1.336209	1	1.383721	2.5	1.283873	5	1.293362	10	1.26491
2-Nitroaniline	0.4	5.992235E-02	1	0.1225813	2	0.1520563	5	0.1749115	10	0.1850365	20	0.1989071
Acenaphthylene	0.2	1.843162	0.5	1.959838	1	2.03617	2.5	1.863883	5	1.869935	10	1.760461
Dimethylphthalate	0.2	1.055489	0.5	1.3075	1	1.364147	2.5	1.263945	5	1.220989	10	1.091511
2,6-Dinitrotoluene			1	0.262822	2	0.2934337	5	0.2709652	10	0.2751634	20	0.2545979
Acenaphthene	0.2	1.027118	0.5	1.005777	1	1.037672	2.5	1.006576	5	1.048173	10	1.041015
3-Nitroaniline	0.4	0.2182274	1	0.2201872	2	0.2402146	5	0.2315224	10	0.2057263	20	0.2140085
2,4-Dinitrophenol	0.8		2	9.46038E-04	4	3.327449E-02	10	0.1051236	20	0.178768	40	0.2120061
Dibenzofuran	0.2	1.619738	0.5	1.603219	1	1.649641	2.5	1.530168	5	1.57281	10	1.541421
4-Nitrophenol	0.4		1		2	8.479123E-02	5	0.1179804	10	0.1563579	20	0.1654935
2,4-Dinitrotoluene			1	0.2833321	2	0.3527963	5	0.3703696	10	0.3964687	20	0.3825538
Fluorene	0.2	2.455716	0.5	2.423926	1	2.550395	2.5	2.369533	5	2.342637	10	2.110035
4-Chlorophenylphenyl ether	0.2	0.7881623	0.5	0.7671233	1	0.6838829	2.5	0.7392267	5	0.7374557	10	0.7571836
Diethyl phthalate	0.2	1.177535	0.5	1.255632	1	1.347765	2.5	1.286048	5	1.32707	10	1.23927
4-Nitroaniline	0.4	0.1794002	1	0.3970585	2	0.5328819	5	0.5437851	10	0.5703602	20	0.5494937
4,6-Dinitro-2-methylphenol	0.8	4.643241E-03	2	5.177189E-02	4	0.1217729	10	0.1532539	20	0.1799081	40	0.1846292
N-Nitrosodiphenylamine	0.2	0.7523764	0.5	0.8079653	1	0.8473522	2.5	0.7257427	5	0.7034713	10	0.6476952
4-Bromophenyl phenyl ether	0.2	0.1694869	0.5	0.17071	1	0.1930899	2.5	0.1844982	5	0.2007594	10	0.204365
Hexachlorobenzene	0.2	0.1904586	0.5	0.1700342	1	0.1465827	2.5	0.1590172	5	0.1479155	10	0.1664929
Pentachlorophenol	0.4		1		2		5	2.67011E-03	10	1.687443E-02	20	3.672082E-02
Phenanthrene	0.2	0.9832706	0.5	0.9547709	1	0.9741127	2.5	0.9147718	5	0.9669738	10	0.9256742
Anthracene	0.2	0.8088492	0.5	0.8673464	1	0.954659	2.5	0.9151826	5	0.9670972	10	0.9609165
Carbazole	0.2	0.8378395	0.5	0.8949393	1	1.042484	2.5	0.9886214	5	1.038406	10	1.053698
Di-n-Butylphthalate	0.2	0.9555825	0.5	1.130577	1	1.276735	2.5	1.31004	5	1.435027	10	1.524753

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	**RRF**	Conc	RRF	Conc	RRF	Conc	**RRF**	Conc	**RRF**
Fluoranthene	0.2	1.502886	0.5	1.49052	1	1.648342	2.5	1.617603	5	1.73014	10	1.784842
Pyrene	0.2	1.651801	0.5	1.609309	1	1.692861	2.5	1.695284	5	1.753428	10	1.781654
Butylbenzylphthalate	0.2	0.7436872	0.5	0.8546328	1	0.9124033	2.5	0.9424755	5	0.9670423	10	0.9340401
Benzo(a)anthracene	0.2	1.286716	0.5	1.137725	1	1.018163	2.5	1.18589	5	1.097314	10	1.248799
3,3'-Dichlorobenzidine	0.6	0.3523798	1.5	0.3798219	3	0.4280072	7.5	0.4187869	15	0.4241777	30	0.461115
Chrysene	0.2	1.011712	0.5	0.9476285	1	0.9697285	2.5	0.9074604	5	0.9120939	10	0.9084354
bis(2-Ethylhexyl)phthalate	0.2	0.5034611	0.5	0.6879606	1	0.6929783	2.5	0.6287594	5	0.6405688	10	0.5903421
Di-n-Octylphthalate	0.2	1.037973	0.5	0.8974795	1	0.9484002	2.5	0.8716847	5	0.8912131	10	0.8529376
Benzofluoranthenes, Total	0.4	1.381603	1	1.329421	2	1.3237	5	1.350091	10	1.320929	20	1.307553
Benzo(a)pyrene	0.2	1.463002	0.5	1.281791	1	1.33497	2.5	1.318666	5	1.348148	10	1.346043
Indeno(1,2,3-cd)pyrene	0.2	0.9647846	0.5	1.012016	1	1.017611	2.5	1.084368	5	1.081333	10	1.125529
Dibenzo(a,h)anthracene	0.2	0.701397	0.5	0.7617288	1	0.8777878	2.5	0.8555018	5	0.8815271	10	0.8835933
Benzo(g,h,i)perylene	0.2	0.9147628	0.5	0.7535429	1	0.8172039	2.5	0.8664113	5	0.887039	10	0.9294126
1-Methylnaphthalene	0.2	0.6182685	0.5	0.6230325	1	0.6618066	2.5	0.6212641	5	0.6725355	10	0.7171882
2-Fluorophenol	0.3	0.563514	0.75	0.8046941	1.5	0.9022827	3.75	1.144054	7.5	1.270328	15	1.449466
Phenol-d5	0.3	1.027246	0.75	1.021496	1.5	1.183358	3.75	1.390601	7.5	1.531097	15	1.741998
2-Chlorophenol-d4	0.3	1.152843	0.75	1.226806	1.5	1.310743	3.75	1.341664	7.5	1.412849	15	1.471957
1,2-Dichlorobenzene-d4	0.2	0.8717547	0.5	0.7675796	1	0.8073717	2.5	0.8498191	5	0.8607167	10	0.8586165
Nitrobenzene-d5	0.2	0.1988214	0.5	0.2073933	1	0.2503812	2.5	0.2532791	5	0.2680383	10	0.2873193
2-Fluorobiphenyl	0.2	1.534501	0.5	1.431671	1	1.506442	2.5	1.44956	5	1.47827	10	1.409593
2,4,6-Tribromophenol	0.3	1.809899E-02	0.75	4.207977E-02	1.5	6.052268E-02	3.75	6.938681E-02	7.5	8.442009E-02	15	8.957034E-02
p-Terphenyl-d14	0.2	0.8938207	0.5	0.8596753	1	0.9156323	2.5	0.939385	5	0.9706567	10	0.9420568

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Phenol	20	1.785848										
bis(2-chloroethyl) ether	20	1.307206										
2-Chlorophenol	20	1.795407										
1,3-Dichlorobenzene	20	1.578858										
1,4-Dichlorobenzene	20	1.381199										
1,2-Dichlorobenzene	20	1.39811										
Benzyl Alcohol	20	0.9445695										
2,2'-Oxybis(1-chloropropane)	20	0.4378882										
2-Methylphenol	20	1.248523										
Hexachloroethane	20	0.6856803										
N-Nitroso-di-n-Propylamine	20	0.6577168										
4-Methylphenol	20	1.03704										
Nitrobenzene	20	0.3102279										
Isophorone	20	0.5028338										
2-Nitrophenol	20	0.3166165										
2,4-Dimethylphenol	40	0.3535365										
Bis(2-Chloroethoxy)methane	20	0.3076128										
2,4-Dichlorophenol	40	0.2761788										
1,2,4-Trichlorobenzene	20	0.2657113										
Naphthalene	20	0.99925										
Benzoic acid	80	0.216058										
4-Chloroaniline	40	0.4857327										
Hexachlorobutadiene	20	0.1023003										
4-Chloro-3-Methylphenol	40	0.3434422										
2-Methylnaphthalene	20	0.8735293										
Hexachlorocyclopentadiene	40	0.2738624										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
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One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
2,4,6-Trichlorophenol	40	0.3922327										
2,4,5-Trichlorophenol	40	0.43635										
2-Chloronaphthalene	20	1.421324										
2-Nitroaniline	40	0.2349506										
Acenaphthylene	20	1.980783										
Dimethylphthalate	20	1.140302										
2,6-Dinitrotoluene	40	0.2869427										
Acenaphthene	20	1.222283										
3-Nitroaniline	40	0.3486786										
2,4-Dinitrophenol	80	0.2435972										
Dibenzofuran	20	1.710181										
4-Nitrophenol	40	0.2230364										
2,4-Dinitrotoluene	40	0.4203385										
Fluorene	20	2.230047										
4-Chlorophenylphenyl ether	20	0.8208071										
Diethyl phthalate	20	1.330869										
4-Nitroaniline	40	0.6235638										
4,6-Dinitro-2-methylphenol	80	0.207674										
N-Nitrosodiphenylamine	20	0.6980469										
4-Bromophenyl phenyl ether	20	0.2414923										
Hexachlorobenzene	20	0.1863098										
Pentachlorophenol	40	5.822035E-02										
Phenanthrene	20	1.073577										
Anthracene	20	1.157301										
Carbazole	20	1.289781										
Di-n-Butylphthalate	20	1.928912										

Analytical Resources, LLC
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INITIAL CALIBRATION DATA

EPA 8270E

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Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Fluoranthene	20	2.493504										
Pyrene	20	2.551275										
Butylbenzylphthalate	20	1.264897										
Benzo(a)anthracene	20	1.656053										
3,3'-Dichlorobenzidine	60	0.6670586										
Chrysene	20	1.273788										
bis(2-Ethylhexyl)phthalate	20	0.5559145										
Di-n-Octylphthalate	20	0.9751679										
Benzofluoranthenes, Total	40	1.536897										
Benzo(a)pyrene	20	1.525405										
Indeno(1,2,3-cd)pyrene	20	1.274511										
Dibenzo(a,h)anthracene	20	0.9789935										
Benzo(g,h,i)perylene	20	1.069099										
1-Methylnaphthalene	20	0.8441252										
2-Fluorophenol	30	1.677753										
Phenol-d5	30	2.073979										
2-Chlorophenol-d4	30	1.717995										
1,2-Dichlorobenzene-d4	20	0.98582										
Nitrobenzene-d5	20	0.346853										
2-Fluorobiphenyl	20	1.563157										
2,4,6-Tribromophenol	30	0.1178349										
p-Terphenyl-d14	20	1.263542										

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Phenol	1.404463	19.9		0.9999	QCOD (0.99)	
bis(2-chloroethyl) ether	1.311871	10.5			RSD (15)	
2-Chlorophenol	1.45882	13.5			RSD (15)	
1,3-Dichlorobenzene	1.53132	3.9			RSD (15)	
1,4-Dichlorobenzene	1.316852	5.7			RSD (15)	
1,2-Dichlorobenzene	1.336239	7.7			RSD (15)	
Benzyl Alcohol	0.5973505	42.4		0.9990	QCOD (0.99)	
2,2'-Oxybis(1-chloropropane)	0.3934987	8.2			RSD (15)	
2-Methylphenol	1.021507	15.0		0.9999	QCOD (0.99)	
Hexachloroethane	0.5781425	9.8			RSD (15)	
N-Nitroso-di-n-Propylamine	0.5381567	11.0			RSD (15)	
4-Methylphenol	0.7393577	19.1		0.9994	QCOD (0.99)	
Nitrobenzene	0.2419063	15.6		1.0000	QCOD (0.99)	
Isophorone	0.3567252	23.9		0.9998	QCOD (0.99)	
2-Nitrophenol	0.2032345	33.8		0.9990	QCOD (0.99)	
2,4-Dimethylphenol	0.3089571	10.0			RSD (15)	
Bis(2-Chloroethoxy)methane	0.267533	8.7			RSD (15)	
2,4-Dichlorophenol	0.2172906	26.2		0.9998	QCOD (0.99)	
1,2,4-Trichlorobenzene	0.257323	5.2			RSD (15)	
Naphthalene	0.8795663	6.3			RSD (15)	
Benzoic acid	0.0729753	119.5		0.9764	QCOD (0.99)	*
4-Chloroaniline	0.3408285	28.9		0.9998	QCOD (0.99)	
Hexachlorobutadiene	9.562598E-02	5.1			RSD (15)	
4-Chloro-3-Methylphenol	0.2294921	33.9		0.9996	QCOD (0.99)	
2-Methylnaphthalene	0.6956659	12.0			RSD (15)	
Hexachlorocyclopentadiene	0.1879345	34.9		0.9994	QCOD (0.99)	
2,4,6-Trichlorophenol	0.2960164	31.4		0.9997	QCOD (0.99)	
2,4,5-Trichlorophenol	0.312006	37.4		0.9992	QCOD (0.99)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
2-Chloronaphthalene	1.323904	4.5			RSD (15)	
2-Nitroaniline	0.1611951	35.3		0.9998	QCOD (0.99)	
Acenaphthylene	1.902033	5.0			RSD (15)	
Dimethylphthalate	1.206269	9.5			RSD (15)	
2,6-Dinitrotoluene	0.2739875	5.3		0.9988	QCOD (0.99)	
Acenaphthene	1.055516	7.1			RSD (15)	
3-Nitroaniline	0.239795	20.6		0.9989	QCOD (0.99)	
2,4-Dinitrophenol	0.1289526	76.5		0.9918	QCOD (0.99)	
Dibenzofuran	1.603883	3.9			RSD (15)	
4-Nitrophenol	0.1495319	34.9		0.9982	QCOD (0.99)	
2,4-Dinitrotoluene	0.3676432	12.9		0.9996	QCOD (0.99)	
Fluorene	2.354613	6.2			RSD (15)	
4-Chlorophenylphenyl ether	0.7562631	5.7			RSD (15)	
Diethyl phthalate	1.280598	4.7			RSD (15)	
4-Nitroaniline	0.4852205	31.2		0.9995	QCOD (0.99)	
4,6-Dinitro-2-methylphenol	0.1290933	58.3		0.9990	QCOD (0.99)	
N-Nitrosodiphenylamine	0.7403786	9.2			RSD (15)	
4-Bromophenyl phenyl ether	0.1949145	12.6			RSD (15)	
Hexachlorobenzene	0.1666873	10.3			RSD (15)	
Pentachlorophenol	2.862143E-02	84.5		0.9421	QCOD (0.99)	*
Phenanthrene	0.9704501	5.4			RSD (15)	
Anthracene	0.947336	11.5			RSD (15)	
Carbazole	1.020824	14.1			RSD (15)	
Di-n-Butylphthalate	1.365947	22.8		0.9999	QCOD (0.99)	
Fluoranthene	1.752548	19.6		0.9999	QCOD (0.99)	
Pyrene	1.819373	18.0		0.9997	QCOD (0.99)	
Butylbenzylphthalate	0.9455969	16.9		0.9992	QCOD (0.99)	
Benzo(a)anthracene	1.232951	16.8		0.9997	QCOD (0.99)	

INITIAL CALIBRATION DATA

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	GA00013	Instrument:	NT10
Calibration Date:	01/04/2023	Column (1):	ZB-5MSi

Calibration Comments: PCP should not be used.
ICAL used only for phalates as per VAN
One sequence reported SLA0061 with this ICAL where only butylbenzylphthalate was requested.

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
3,3'-Dichlorobenzidine	0.4473353	23.0		1.0000	QCOD (0.99)	
Chrysene	0.9901209	13.2			RSD (15)	
bis(2-Ethylhexyl)phthalate	0.6142836	11.3			RSD (15)	
Di-n-Octylphthalate	0.9249794	7.1			RSD (15)	
Benzofluoranthenes, Total	1.364313	5.9			RSD (15)	
Benzo(a)pyrene	1.374004	6.3			RSD (15)	
Indeno(1,2,3-cd)pyrene	1.080022	9.4			RSD (15)	
Dibenzo(a,h)anthracene	0.848647	10.7			RSD (15)	
Benzo(g,h,i)perylene	0.8910674	11.1			RSD (15)	
1-Methylnaphthalene	0.6797458	11.9			RSD (15)	
2-Fluorophenol	1.116013	34.7		0.9990	QCOD (0.99)	
Phenol-d5	1.424254	27.4		0.9993	QCOD (0.99)	
2-Chlorophenol-d4	1.376408	13.4			RSD (15)	
1,2-Dichlorobenzene-d4	0.8573826	7.9			RSD (15)	
Nitrobenzene-d5	0.2588694	19.3		0.9999	QCOD (0.99)	
2-Fluorobiphenyl	1.481885	3.8			RSD (15)	
2,4,6-Tribromophenol	0.0688448	47.6		0.9992	QCOD (0.99)	
p-Terphenyl-d14	0.9692527	13.9			RSD (15)	

ANALYSIS SEQUENCE

SLA0012

Instrument: NT10 Element Column ID: K005462
Calibration ID: GA00013 Tune File: 221229.u
EM Voltage: 2129

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0012-TUN1	MS Tune	QC		1	K008469		01/04/2023 08:46	NT1023010401.D	DSD	
SLA0012-ICB1	Initial Cal Blank	QC		2	K005156	K010831	01/04/2023 09:07	NT1023010402.D	VTS	
SLA0012-CAL7	CAL 20	QC		3	K011111	K010831	01/04/2023 10:44	NT1023010404.D	VTS	
SLA0012-CAL6	CAL 10	QC		4	K011110	K010831	01/04/2023 11:51	NT1023010405.D	VTS	
SLA0012-CAL5	CAL 5	QC		5	K011109	K010831	01/04/2023 12:29	NT1023010406.D	VTS	
SLA0012-CAL4	CAL 2.5	QC		6	K011108	K010831	01/04/2023 13:07	NT1023010407.D	VTS	
SLA0012-CAL3	CAL 1.0	QC		7	K011107	K010831	01/04/2023 13:46	NT1023010408.D	VTS	
SLA0012-CAL2	CAL 0.5	QC		8	K011106	K010831	01/04/2023 14:24	NT1023010409.D	VTS	
SLA0012-CAL1	CAL 0.2	QC		9	K011105	K010831	01/04/2023 15:03	NT1023010410.D	VTS	
SLA0012-SCV1	SCV 5.0	QC		10	K010066	K010831	01/04/2023 16:58	NT1023010413.D	VTS	
SLA0012-ICV1	SICV1	QC		11	K011109	K010831	01/04/2023 17:36	NT1023010414.D	VTS	
SLA0012-LCV1	ABN 0.2	QC		12	K011106	K010831	01/04/2023 18:53	NT1023010416.D	VTS	
SLA0012-CCV1	ABN 5	QC		13	K011109	K010831	01/05/2023 05:05	NT1023010432.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230104.b

	Time	Filename	LabID	ClientId	DF													
1	0846	NT1023010401.D	SLA0012-TUN1		1	|NO ISTDS FOUND||												
2	0907	NT1023010402.D	SLA0012-ICB1		1	| 9.67	83946||12.16	331747||15.79	144996||18.84	257969||23.85	144005||26.79	111332||24.90	338570|					
3	0946	NT1023010403.D	not used	not used	1	| 9.67	54268||12.17	210968||15.79	105152||18.85	170392||23.86	98301||26.81	91409||24.91	356756|					
4	1044	NT1023010404.D	SLA0012-CAL7		1	| 9.67	57997||12.17	220799||15.79	108828||18.85	177821||23.86	98143||26.80	88030||24.91	378301|					
5	1151	NT1023010405.D	SLA0012-CAL6		1	| 9.67	74375||12.17	281269||15.80	135789||18.85	229826||23.86	146395||26.80	102123||24.91	396316|					
6	1229	NT1023010406.D	SLA0012-CAL5		1	| 9.67	76684||12.16	296095||15.79	136492||18.84	239937||23.85	151837||26.79	98696||24.90	363176|					
7	1307	NT1023010407.D	SLA0012-CAL4		1	| 9.67	83197||12.16	319900||15.79	144919||18.84	260963||23.85	159977||26.80	103103||24.90	364708|					
8	1346	NT1023010408.D	SLA0012-CAL3		1	| 9.67	95500||12.16	360075||15.79	159191||18.84	282107||23.84	180863||26.79	109138||24.90	372889|					
9	1424	NT1023010409.D	SLA0012-CAL2		1	| 9.67	96063||12.16	365952||15.79	158556||18.84	284131||23.85	179277||26.79	110433||24.90	361323|					
10	1503	NT1023010410.D	SLA0012-CAL1		1	| 9.67	99684||12.16	387081||15.79	163545||18.84	291822||23.85	180506||26.80	109952||24.90	358121|					
11	1658	NT1023010413.D	SLA0012-SCV1		1	| 9.66	88595||12.16	350423||15.79	157902||18.84	291036||23.85	180135||26.80	113976||24.90	437929|					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230104.b

Instrument: nt10.i Date: 04-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0846	NT1023010401.D	SLA0012-TUN1	1	NO MANUAL INTEGRATION
0907	NT1023010402.D	SLA0012-ICB1	1	NO MANUAL INTEGRATION
0946	NT1023010403.D	not used	1	NO MANUAL INTEGRATION
1044	NT1023010404.D	SLA0012-CAL7	1	NO MANUAL INTEGRATION
1151	NT1023010405.D	SLA0012-CAL6	1	NO MANUAL INTEGRATION
1229	NT1023010406.D	SLA0012-CAL5	1	Pentachlorophenol,
1307	NT1023010407.D	SLA0012-CAL4	1	NO MANUAL INTEGRATION
1346	NT1023010408.D	SLA0012-CAL3	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene, Phenol-d5,
1424	NT1023010409.D	SLA0012-CAL2	1	2,2'-oxybis(1-Chloropropane), N-Nitroso-di-n-propylamine, Isophorone, 2,4-Dinitrophenol, Benzo(g,h,i)perylene,
1503	NT1023010410.D	SLA0012-CAL1	1	2,2'-oxybis(1-Chloropropane), N-Nitroso-di-n-propylamine, Isophorone, 3-Nitroaniline, 2,4-Dinitrotoluene, Inde Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, N-Nitrosodimethylamine, Phenol-d5, Nitrobenzene-d5,
1658	NT1023010413.D	SLA0012-SCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Jan-2023 13:41

NT1023010401.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010402.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010403.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010404.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010405.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010406.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010407.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010408.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010409.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010410.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010413.D	Data Locked	van, 17-Jan-2023 13:41

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
End Cal Date : 04-JAN-2023 15:03
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Calibration File Names:
Level 1: \\target\share\chem3\nt10.i\20230104.b\NT1023010410.D
Level 2: \\target\share\chem3\nt10.i\20230104.b\NT1023010409.D
Level 3: \\target\share\chem3\nt10.i\20230104.b\NT1023010408.D
Level 4: \\target\share\chem3\nt10.i\20230104.b\NT1023010407.D
Level 5: \\target\share\chem3\nt10.i\20230104.b\NT1023010406.D
Level 6: \\target\share\chem3\nt10.i\20230104.b\NT1023010405.D
Level 7: \\target\share\chem3\nt10.i\20230104.b\NT1023010404.D

Compound	0.2000000 Level 1	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
	20.0000 Level 7											
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
170 N,N-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
171 2,3-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
172 2,4-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
173 2,5-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
174 2,6-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
175 3,4-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
176 3,5-Dimethylaniline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
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Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
177 p-Benzoquinone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
168 Pentachlorobenzene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
145 4,4'-DDE	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
146 4,4'-DDD	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
147 4,4'-DDT	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
148 Dieldrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
149 TCMX	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
150 DCBP	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
138 Chlorobenzilate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
139 Isodrin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
140 Diallate A	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
141 Diallate B	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
142 1,2-Dibromo-3-Chloropropane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
135 2,3,5,6-Tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Target Version : 4.14
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Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
136 2,3,4,5-tetrachlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
133 Butylatedhydroxytoluene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
132 3,6-Dimethylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
131 1-Methylphenanthrene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
130 Dibenzothiophene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
129 1-Methylfluorene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
128 N-Hexadecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
End Cal Date : 04-JAN-2023 15:03
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
127 2-Isopropylnaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
126 N-Tetradecane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
144 alpha-Terpineol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
125 Safrole	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
124 3,4-Dimethylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
123 Acetophenone	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
122 Furfuraldehyde	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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End Cal Date : 04-JAN-2023 15:03
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
143 1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
121 Quinoline	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
120 2,3,4,6-Tetrachlorophenol	+++++ / 144032	1676	5703	15271	36277	75584	QUAD	0.000e+000	5.07571	-0.98297	0.99944	<-
178 2-Benzyl-4-Chlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
119 7,12-Dimethylbenz(a)anthracen	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
118 Triphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
117 Butyl Diphenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
End Cal Date : 04-JAN-2023 15:03
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
116 Dibutyl Phenyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
115 Tributyl Phosphate	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
114 Beta-Pinene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
113 Diphenyl Oxide	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
112 Biphenyl	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
111 Azobenzene (1,2-DP-Hydrazine)	1.43251 / 1.61344	1.69883	1.72364	1.57020	1.56928	1.43479	AVRG		1.57753		7.26816	
110 Tetrachloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
End Cal Date : 04-JAN-2023 15:03
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Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
109 3,4,5-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
181 3,4,6-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
108 4,5,6-Trichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
184 3,4-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
107 4,5-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
182 4,6-Dichloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
185 4-Chloroguaiacol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
105 1-methylnaphthalene	0.61827	0.62303	0.66181	0.62126	0.67254	0.71719						
	0.84413						AVRG		0.67975		11.89293	
151 1,2,4,5-Tetrachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

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156 Methyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
157 Ethyl Parathion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
158 Ethion	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
159 4-Nonylphenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
160 Tetraethyl Tin	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
161 1,2,3-Trichloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
162 1,2,3,4-Tetrachloronapthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

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163 1,2,3,5,8-Pentachloronaphthal	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
164 1,2,3,4,6,7-Hexachloronaphtha	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
165 1,2,3,4,5,6,7-Heptachloronaph	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
166 Octachloronaphthalene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
167 2,2',4,4',5-Pentabromobipheny	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
3 Phenol	4600 / 517869	14882	31760	73331	148338	296584	QUAD	0.000e+000	0.68293	-0.01379	0.99992	
4 Bis(2-Chloroethyl)ether	1.54568 / 1.30721	1.40908	1.35644	1.20347	1.16459	1.19663	AVRG		1.31187		10.45393	

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6 2-Chlorophenol	1.17491	1.29332	1.47627	1.43067	1.48017	1.56099					
	1.79541						AVRG		1.45882		13.51633
7 1,3-Dichlorobenzene	1.61691	1.57405	1.52046	1.50411	1.46214	1.46272					
	1.57886						AVRG		1.53132		3.93288
9 1,4-Dichlorobenzene	1.44075	1.32471	1.30425	1.27720	1.27338	1.21647					
	1.38120						AVRG		1.31685		5.65318
11 Benzyl alcohol	778	5562	12570	31871	65617	147566					
	273911						QUAD	0.000e+000	1.46632	-0.08674	0.99951
12 1,2-Dichlorobenzene	1.54067	1.28307	1.30999	1.31472	1.26105	1.24606					
	1.39811						AVRG		1.33624		7.69183
13 2-Methylphenol	3632	12109	24103	53620	100619	199782					
	362053						QUAD	0.000e+000	1.01452	-0.03414	0.99993
14 2,2'-oxybis(1-Chloropropane)	0.43798	0.37409	0.39933	0.37021	0.37137	0.36362					
	0.43789						AVRG		0.39350		8.22486

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15 4-Methylphenol	3512	7870	15763	33856	64171	148312						
	300726						QUAD	0.000e+000	1.48281	-0.10024	0.99949	
16 N-Nitroso-di-n-propylamine	0.47309	0.49726	0.52536	0.51810	0.54243	0.55314						
	0.65772						AVRG		0.53816		10.99567	<-
17 Hexachloroethane	0.62397	0.53490	0.54073	0.53262	0.56099	0.56810						
	0.68568						AVRG		0.57814		9.83580	
19 Nitrobenzene	3833	9238	21696	47642	89898	183478						
	342490						QUAD	0.000e+000	4.29375	-0.69038	0.99998	<-
20 Isophorone	4677	12951	30498	69424	138639	287502						
	555126						QUAD	0.000e+000	2.79597	-0.32155	0.99994	<-
21 2-Nitrophenol	1944	7259	16639	39945	77484	177845						
	349543						QUAD	0.000e+000	4.68413	-0.96741	0.99935	
22 2,4-Dimethylphenol	+++++	0.25794	0.30329	0.30559	0.31564	0.31775						
	0.35354						AVRG		0.30896		9.98246	

ARI Labs, Inc.

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23 Bis(2-Chloroethoxy)methane	0.23106	0.26215	0.27833	0.27229	0.25736	0.26392						
	0.30761						AVRG		0.26753		8.66065	
24 Benzoic acid	+++++	751	449	22519	144135	452688						
	954108						QUAD	0.000e+000	7.87032	-0.75459	0.99034	<-
25 2,4-Dichlorophenol	+++++	15355	40582	95785	184088	352129						
	609800						QUAD	0.000e+000	4.25392	-0.22871	0.99988	
26 1,2,4-Trichlorobenzene	0.25865	0.26666	0.27569	0.24011	0.24173	0.25272						
	0.26571						AVRG		0.25732		5.15879	
28 Naphthalene	0.87878	0.88193	0.86974	0.83942	0.84725	0.84059						
	0.99925						AVRG		0.87957		6.33048	
29 4-Chloroaniline	+++++	22384	68801	134585	271457	539437						
	1072493						QUAD	0.000e+000	2.94608	-0.18260	0.99982	
30 Hexachlorobutadiene	0.09461	0.09805	0.09935	0.08781	0.09555	0.09172						
	0.10230						AVRG		0.09563		5.07950	

ARI Labs, Inc.

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31 4-Chloro-3-methylphenol	+++++	16142	37562	93096	191413	400016						
	758317						QUAD	0.000e+000	4.02678	-0.32550	0.99983	<-
32 2-Methylnaphthalene	0.64452	0.64054	0.66653	0.64183	0.67920	0.72352						
	0.87353						AVRG		0.69567		12.03890	
33 Hexachlorocyclopentadiene	+++++	4920	13697	35113	76872	162009						
	298039						QUAD	0.000e+000	4.68414	-0.37829	0.99974	
34 2,4,6-Trichlorophenol	+++++	8516	23954	58927	121268	241240						
	426859						QUAD	0.000e+000	3.00640	-0.11636	0.99980	
35 2,4,5-Trichlorophenol	+++++	9192	24361	59502	135597	263068						
	474871						QUAD	0.000e+000	2.77167	-0.10987	0.99939	
37 2-Chloronaphthalene	1.28393	1.33621	1.38372	1.28387	1.29336	1.26491						
	1.42132						AVRG		1.32390		4.45095	
38 2-Nitroaniline	+++++	4859	12103	31685	63140	135047						
	255692						QUAD	0.000e+000	5.65650	-0.59697	0.99993	

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39 Dimethylphthalate	1.05549	1.30750	1.36415	1.26394	1.22099	1.09151						
	1.14030						AVRG		1.20627		9.51080	
40 Acenaphthylene	1.84316	1.95984	2.03617	1.86388	1.86994	1.76046						
	1.98078						AVRG		1.90203		4.96597	
41 2,6-Dinitrotoluene	+++++	0.26282	0.29343	0.27097	0.27516	0.25460						
	0.28694						AVRG		0.27399		5.30700	
43 3-Nitroaniline	+++++	8728	19120	41940	70200	145300						
	379460						QUAD	0.000e+000	5.29873	-0.69636	0.99923	
44 Acenaphthene	1.02712	1.00578	1.03767	1.00658	1.04817	1.04102						
	1.22228						AVRG		1.05552		7.13906	
45 2,4-Dinitrophenol	+++++	75.00000	5297	38086	122002	287881						
	530204						QUAD	0.000e+000	5.54528	-0.29838	0.99728	<-
46 Dibenzofuran	1.61974	1.60322	1.64964	1.53017	1.57281	1.54142						
	1.71018						AVRG		1.60388		3.93883	

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47 4-Nitrophenol	+++++ / 242726	+++++	6749	21372	53354	112361	QUAD	0.000e+000	7.02908	-1.14247	0.99907	<-
48 2,4-Dinitrotoluene	+++++ / 0.42034	0.28333	0.35280	0.37037	0.39647	0.38255	AVRG		0.36764		12.85412	
49 Fluorene	2.45572 / 2.23005	2.42393	2.55040	2.36953	2.34264	2.11004	AVRG		2.35461		6.22869	
50 Diethylphthalate	1.17754 / +++++	1.25563	1.34776	1.28605	1.32707	1.23927	AVRG		1.27222		4.87499	
51 4-Chlorophenyl-phenylether	0.78816 / 0.82081	0.76712	0.68388	0.73923	0.73746	0.75718	AVRG		0.75626		5.70916	
52 4-Nitroaniline	2934 / 678612	15739	42415	98506	194624	373076	QUAD	0.000e+000	1.91967	-0.05034	0.99951	
53 4,6-Dinitro-2-methylphenol	+++++ / 738576	7355	34353	99984	215833	424326	QUAD	0.000e+000	5.94254	-0.27211	0.99957	

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54 N-Nitrosodiphenylamine	0.75238	0.80797	0.84735	0.72574	0.70347	0.64770						
	0.69805						AVRG		0.74038		9.24550	
56 4-Bromophenyl-phenylether	0.16949	0.17071	0.19309	0.18450	0.20076	0.20437						
	0.24149						AVRG		0.19491		12.63179	
57 Hexachlorobenzene	0.19046	0.17003	0.14658	0.15902	0.14792	0.16649						
	0.18631						AVRG		0.16669		10.32373	
58 Pentachlorophenol	+++++	+++++	+++++	871	10122	42197						
	103528						QUAD	0.000e+000	34.81506	-30.38785	0.98558	<-
60 Phenanthrene	0.98327	0.95477	0.97411	0.91477	0.96697	0.92567						
	1.07358						AVRG		0.97045		5.35039	
61 Anthracene	0.80885	0.86735	0.95466	0.91518	0.96710	0.96092						
	1.15730						AVRG		0.94734		11.50906	
62 Carbazole	0.83784	0.89494	1.04248	0.98862	1.03841	1.05370						
	1.28978						AVRG		1.02082		14.11465	

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63 Di-n-butylphthalate	13943	40154	90044	213670	430395	876070					
	1715005						QUAD	0.000e+000	0.74735	-0.02375	0.99995
64 Fluoranthene	13564	33402	74531	161737	328374	653230					
	1223600						QUAD	0.000e+000	0.63908	-0.01908	0.99986
65 Pyrene	14908	36064	76544	169504	332794	652063					
	1251949						QUAD	0.000e+000	0.63644	-0.01914	0.99974
67 Butylbenzylphthalate	6712	19152	41255	94234	183541	341847					
	620704						QUAD	0.000e+000	1.18080	-0.06153	0.99923
68 Benzo(a)anthracene	11613	25496	46037	118572	208266	457045					
	812650						QUAD	0.000e+000	0.92849	-0.03923	0.99975
70 3,3'-Dichlorobenzidine	9541	25535	58058	125618	241522	506287					
	982007						QUAD	0.000e+000	2.51599	-0.10161	0.99998
71 Chrysene	1.01171	0.94763	0.96973	0.90746	0.91209	0.90844					
	1.27379						AVRG		0.99012		13.21671

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72 bis(2-Ethylhexyl)phthalate	0.50346	0.68796	0.69298	0.62876	0.64057	0.59034					
	0.55591						AVRG		0.61428		11.27526
73 Di-n-octylphthalate	1.03797	0.89748	0.94840	0.87168	0.89121	0.85294					
	0.97517						AVRG		0.92498		7.08403
74 Benzo(b)fluoranthene	1.49793	1.30468	1.42931	1.43490	1.36293	1.34890					
	1.70740						AVRG		1.44087		9.29170
75 Benzo(k)fluoranthene	1.39188	1.47043	1.35139	1.37798	1.37771	1.37620					
	1.48131						AVRG		1.40384		3.61416
187 Total Benzofluoranthenes	1.38160	1.32942	1.32370	1.35009	1.32093	1.30755					
	1.53690						AVRG		1.36431		5.85283
76 Benzo(a)pyrene	1.46300	1.28179	1.33497	1.31867	1.34815	1.34604					
	1.52540						AVRG		1.37400		6.32966
78 Indeno(1,2,3-cd)pyrene	0.96478	1.01202	1.01761	1.08437	1.08133	1.12553					
	1.27451						AVRG		1.08002		9.39062

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
End Cal Date : 04-JAN-2023 15:03
Quant Method : ISTD
Origin : Force
Target Version : 4.14
Integrator : HP RTE
Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
79 Dibenzo(a,h)anthracene	0.70140	0.76173	0.87779	0.85550	0.88153	0.88359						
	0.97899						AVRG		0.84865		10.69487	
80 Benzo(g,h,i)perylene	0.91476	0.75354	0.81720	0.86641	0.88704	0.92941						
	1.06910						AVRG		0.89107		11.10215	
90 N-Nitrosodimethylamine	4134	10040	21671	59948	123371	315387						
	601510						QUAD	0.000e+000	1.43191	-0.04541	0.99786	
91 Aniline	+++++	23347	62480	140967	280126	560667						
	1007103						QUAD	0.000e+000	0.72863	-0.00880	0.99991	
92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
93 Benzidine	+++++	23719	62312	149774	312621	613406						
	1165036						QUAD	0.000e+000	1.36164	-0.04371	0.99967	
96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

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Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
97 Caffeine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
98 Retene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
99 Perylene	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
100 3-beta-Coprostanol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
101 Cholesterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
102 beta-Sitosterol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
103 Pyridine	+++++ / 947694	+++++	14840	55997	184861	478720	QUAD	0.000e+000	0.47879	-0.01064	0.99573	<-

ARI Labs, Inc.

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Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
188 2,6-Dichlorophenol	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
189 N-Nitrosomethylethylamine	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 1 2-Fluorophenol	4213 / 729785	14494	32313	89233	182651	404265	QUAD	0.000e+000	0.79318	-0.01576	0.99953	
$ 137 d8-1,4-Dioxane	+++++ / +++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 2 Phenol-d5	7680 / 902134	18399	42379	108463	220145	485854	QUAD	0.000e+000	0.66324	-0.01169	0.99964	
$ 5 2-Chlorophenol-d4	1.15284 / 1.71799	1.22681	1.31074	1.34166	1.41285	1.47196	AVRG		1.37641		13.42998	
$ 10 1,2-Dichlorobenzene-d4	0.87175 / 0.98582	0.76758	0.80737	0.84982	0.86072	0.85862	AVRG		0.85738		7.87290	

ARI Labs, Inc.

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Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 18 Nitrobenzene-d5	3848	9487	22539	50640	99206	202035						
	382924						QUAD	0.000e+000	3.92735	-0.60265	0.99997	
$ 36 2-Fluorobiphenyl	1.53450	1.43167	1.50644	1.44956	1.47827	1.40959						
	1.56316						AVRG		1.48188		3.77557	
$ 55 2,4,6-Tribromophenol	222	1251	3613	9427	21605	45610						
	96178						QUAD	0.000e+000	12.90706	-5.00667	0.99967	
$ 66 Terphenyl-d14	0.89382	0.85968	0.91563	0.93939	0.97066	0.94206						
	1.26354						AVRG		0.96925		13.89396	
$ 85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-
$ 87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++						
	+++++						AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

Start Cal Date : 29-OCT-2022 13:55
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Quant Method : ISTD
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Target Version : 4.14
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Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Compound	0.2000000 Level 1 / 20.0000 Level 7	0.5000000 Level 2	1.0000 Level 3	2.5000 Level 4	5.0000 Level 5	10.0000 Level 6	Curve	Coefficients b	m1	m2	%RSD or R^2	
$ 88 Dibenz(a,h)anthracene-d14	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-
$ 95 D10-1-methylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	AVRG		0.000e+000		0.000e+000	<-

ARI Labs, Inc.

INITIAL CALIBRATION DATA

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Quant Method : ISTD
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Method file : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Last Edit : 14-Jan-2023 11:12 van

Curve	Formula	Units
Averaged	Amt = Rsp/m1	Response
Quad	Amt = b + m1*Rsp + m2*Rsp^2	Response

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

ID:	RT01	RT02	RT03	RT04	RT05	RT06	RT07
FILENAME:	NT1023010404	NT1023010405	NT1023010406	NT1023010407	NT1023010408	NT1023010409	NT1023010410
INJ.DATE:	04-JAN-2023	04-JAN-2023	04-JAN-2023	04-JAN-2023	04-JAN-2023	04-JAN-2023	04-JAN-2023
INJ.TIME:	10:44	11:51	12:29	13:07	13:46	14:24	15:03

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
$ 1 2-Fluorophenol	7.422	7.421	7.414	7.414	7.421	7.421	7.421	7.414	4.414-10.414	7.419	0.004
186 Carbaryl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.785	15.785-21.785	+++++	+++++
179 n-Decane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.921	5.921-11.921	+++++	+++++
180 n-Octadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.908	14.908-20.908	+++++	+++++
169 4-tert-Butylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.871	17.871-23.871	+++++	+++++
170 N,N-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	20.829	17.829-23.829	+++++	+++++
171 2,3-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
172 2,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
173 2,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.506	21.506-27.506	+++++	+++++
174 2,6-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.196	16.196-22.196	+++++	+++++
175 3,4-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	19.559	16.559-22.559	+++++	+++++
176 3,5-Dimethylaniline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.572	18.572-24.572	+++++	+++++
177 p-Benzoquinone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	8.736	5.736-11.736	+++++	+++++
168 Pentachlorobenzene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.842	12.842-18.842	+++++	+++++
145 4,4'-DDE	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.212	44.212-50.212	+++++	+++++
146 4,4'-DDD	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.746	44.746-50.746	+++++	+++++
147 4,4'-DDT	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.216	45.216-51.216	+++++	+++++

Reviewer 1 _____ Date:_____
Reviewer 2 _____ Date:_____

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
148 Dieldrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.281	44.281-50.281	+++++	+++++
149 TCMX	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.387	40.387-46.387	+++++	+++++
150 DCBP	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.989	47.989-53.989	+++++	+++++
138 Chlorobenzilate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	67.733	64.733-70.733	+++++	+++++
139 Isodrin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.067	62.067-68.067	+++++	+++++
140 Diallate A	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
141 Diallate B	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.487	62.487-68.487	+++++	+++++
142 1,2-Dibromo-3-Chloropr	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.917	46.917-52.917	+++++	+++++
135 2,3,5,6-Tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.672	13.672-19.672	+++++	+++++
136 2,3,4,5-tetrachlorophe	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.317	36.317-42.317	+++++	+++++
$ 137 d8-1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.445	0.000-5.445	+++++	+++++
* 134 Di-n-octylphthalate-d4	24.911	24.911	24.903	24.903	24.903	24.903	24.903	24.903	21.903-27.903	24.905	0.004
133 Butylatedhydroxytoluen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.539	13.539-19.539	+++++	+++++
132 3,6-Dimethylphenanthre	+++++	+++++	+++++	+++++	+++++	+++++	+++++	65.450	62.450-68.450	+++++	+++++
131 1-Methylphenanthrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	64.400	61.400-67.400	+++++	+++++
130 Dibenzothiophene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	62.100	59.100-65.100	+++++	+++++
129 1-Methylfluorene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.912	51.912-57.912	+++++	+++++
128 N-Hexadecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.212	51.212-57.212	+++++	+++++
127 2-Isopropylnaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	57.650	54.650-60.650	+++++	+++++
126 N-Tetradecane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.750	53.750-59.750	+++++	+++++
144 alpha-Terpineol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	12.260	9.260-15.260	+++++	+++++
125 Safrole	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.166	49.166-55.166	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
124 3,4-Dimethylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.617	47.617-53.617	+++++	+++++
123 Acetophenone	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.381	8.381-14.381	+++++	+++++
122 Furfuraldehyde	+++++	+++++	+++++	+++++	+++++	+++++	+++++	43.467	40.467-46.467	+++++	+++++
143 1,4-Dioxane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	2.697	0.000-5.697	+++++	+++++
121 Quinoline	+++++	+++++	+++++	+++++	+++++	+++++	+++++	54.500	51.500-57.500	+++++	+++++
120 2,3,4,6-Tetrachlorophe	16.526	16.518	16.518	16.518	16.518	16.526	+++++	16.518	13.518-19.518	16.520	0.004
178 2-Benzyl-4-Chloropheno	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.963	15.963-21.963	+++++	+++++
119 7,12-Dimethylbenz(a)an	+++++	+++++	+++++	+++++	+++++	+++++	+++++	47.069	44.069-50.069	+++++	+++++
118 Triphenyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.215	18.215-24.215	+++++	+++++
117 Butyl Diphenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.541	14.541-20.541	+++++	+++++
116 Dibutyl Phenyl Phospha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.747	15.747-21.747	+++++	+++++
115 Tributyl Phosphate	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.049	14.049-20.049	+++++	+++++
114 Beta-Pinene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	48.950	45.950-51.950	+++++	+++++
113 Diphenyl Oxide	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.341	11.341-17.341	+++++	+++++
112 Biphenyl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.526	12.526-18.526	+++++	+++++
111 Azobenzene (1,2-DP-Hyd	17.213	17.213	17.205	17.198	17.197	17.205	17.205	17.205	14.205-20.205	17.205	0.006
110 Tetrachloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	17.874	14.874-20.874	+++++	+++++
109 3,4,5-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.070	12.070-18.070	+++++	+++++
181 3,4,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	15.232	12.232-18.232	+++++	+++++
108 4,5,6-Trichloroguaiaco	+++++	+++++	+++++	+++++	+++++	+++++	+++++	16.374	13.374-19.374	+++++	+++++
184 3,4-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	13.739	10.739-16.739	+++++	+++++
107 4,5-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
182 4,6-Dichloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	14.160	11.160-17.160	+++++	+++++
185 4-Chloroguaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.737	8.737-14.737	+++++	+++++

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
106 Guaiacol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	9.750	6.750-12.750	+++++	+++++
105 1-methylnaphthalene	13.833	13.833	13.825	13.825	13.825	13.825	13.825	13.825	10.825-16.825	13.828	0.004
151 1,2,4,5-Tetrachloroben	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.499	8.499-14.499	+++++	+++++
152 Benzo(e)pyrene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	30.943	27.943-33.943	+++++	+++++
153 Chlorpyrifos	+++++	+++++	+++++	+++++	+++++	+++++	+++++	28.456	25.456-31.456	+++++	+++++
154 Diazinon	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.930	23.930-29.930	+++++	+++++
155 Kelthane	+++++	+++++	+++++	+++++	+++++	+++++	+++++	29.054	26.054-32.054	+++++	+++++
156 Methyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.586	23.586-29.586	+++++	+++++
157 Ethyl Parathion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	27.276	24.276-30.276	+++++	+++++
158 Ethion	+++++	+++++	+++++	+++++	+++++	+++++	+++++	24.808	21.808-27.808	+++++	+++++
159 4-Nonylphenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.109	23.109-29.109	+++++	+++++
160 Tetraethyl Tin	+++++	+++++	+++++	+++++	+++++	+++++	+++++	21.115	18.115-24.115	+++++	+++++
161 1,2,3-Trichloronaphtha	+++++	+++++	+++++	+++++	+++++	+++++	+++++	36.246	33.246-39.246	+++++	+++++
162 1,2,3,4-Tetrachloronap	+++++	+++++	+++++	+++++	+++++	+++++	+++++	37.506	34.506-40.506	+++++	+++++
163 1,2,3,5,8-Pentachloron	+++++	+++++	+++++	+++++	+++++	+++++	+++++	38.893	35.893-41.893	+++++	+++++
164 1,2,3,4,6,7-Hexachloro	+++++	+++++	+++++	+++++	+++++	+++++	+++++	39.681	36.681-42.681	+++++	+++++
165 1,2,3,4,5,6,7-Heptachl	+++++	+++++	+++++	+++++	+++++	+++++	+++++	41.123	38.123-44.123	+++++	+++++
166 Octachloronaphthalene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.253	39.253-45.253	+++++	+++++
167 2,2',4,4',5-Pentabromo	+++++	+++++	+++++	+++++	+++++	+++++	+++++	42.033	39.033-45.033	+++++	+++++
$ 2 Phenol-d5	9.005	8.997	8.990	8.990	8.989	8.997	8.990	8.990	5.990-11.990	8.994	0.006
3 Phenol	9.028	9.021	9.013	9.013	9.013	9.021	9.020	9.013	6.013-12.013	9.018	0.006
4 Bis(2-Chloroethyl)ethe	9.198	9.198	9.191	9.191	9.190	9.191	9.190	9.191	6.191-12.191	9.193	0.004
$ 5 2-Chlorophenol-d4	9.314	9.306	9.306	9.306	9.306	9.306	9.306	9.306	6.306-12.306	9.307	0.003

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	6 2-Chlorophenol	9.337	9.337	9.330	9.330	9.329	9.330	9.337	9.330	6.330-12.330	9.333	0.004
	7 1,3-Dichlorobenzene	9.608	9.616	9.608	9.608	9.608	9.600	9.608	9.608	6.608-12.608	9.608	0.004
*	8 1,4-Dichlorobenzene-d4	9.670	9.670	9.670	9.670	9.670	9.670	9.670	9.670	6.670-12.670	9.670	0.000
	9 1,4-Dichlorobenzene	9.701	9.701	9.701	9.701	9.701	9.701	9.701	9.701	6.701-12.701	9.701	0.000
$	10 1,2-Dichlorobenzene-d4	10.043	10.043	10.035	10.035	10.034	10.035	10.027	10.035	7.035-13.035	10.036	0.005
	11 Benzyl alcohol	9.934	9.934	9.926	9.926	9.933	9.934	9.941	9.926	6.926-12.926	9.933	0.005
	12 1,2-Dichlorobenzene	10.066	10.066	10.058	10.058	10.058	10.058	10.058	10.058	7.058-13.058	10.060	0.004
	13 2-Methylphenol	10.143	10.143	10.136	10.136	10.135	10.136	10.143	10.136	7.136-13.136	10.139	0.004
	14 2,2'-oxybis(1-Chloropr	10.229	10.229	10.221	10.221	10.221	10.213	10.221	10.221	7.221-13.221	10.222	0.005
	15 4-Methylphenol	10.415	10.415	10.415	10.415	10.415	10.415	10.415	10.415	7.415-13.415	10.415	0.000
	16 N-Nitroso-di-n-propyla	10.493	10.485	10.477	10.477	10.477	10.477	10.485	10.477	7.477-13.477	10.482	0.006
	17 Hexachloroethane	10.664	10.664	10.656	10.664	10.663	10.656	10.663	10.656	7.656-13.656	10.661	0.004
$	18 Nitrobenzene-d5	10.772	10.764	10.764	10.764	10.764	10.764	10.764	10.764	7.764-13.764	10.765	0.003
	19 Nitrobenzene	10.803	10.803	10.795	10.796	10.795	10.795	10.803	10.795	7.795-13.795	10.799	0.004
	20 Isophorone	11.253	11.246	11.238	11.238	11.237	11.238	11.238	11.238	8.238-14.238	11.241	0.006
	21 2-Nitrophenol	11.434	11.434	11.426	11.426	11.434	11.434	11.434	11.426	8.425-14.426	11.431	0.004
	22 2,4-Dimethylphenol	11.468	11.459	11.459	11.451	11.451	11.451	11.459	11.459	8.459-14.459	11.457	0.006
	23 Bis(2-Chloroethoxy)met	11.663	11.655	11.655	11.655	11.654	11.655	11.646	11.655	8.655-14.655	11.655	0.005
	24 Benzoic acid	11.782	11.697	11.629	11.587	11.714	11.459	11.459	11.629	8.629-14.629	11.618	0.125
	25 2,4-Dichlorophenol	11.892	11.884	11.884	11.884	11.883	11.884	11.892	11.884	8.884-14.884	11.886	0.004
	26 1,2,4-Trichlorobenzene	12.077	12.077	12.077	12.077	12.069	12.070	12.077	12.077	9.077-15.077	12.075	0.004
*	27 Naphthalene-d8	12.170	12.170	12.162	12.162	12.162	12.162	12.162	12.162	9.162-15.162	12.164	0.004
	28 Naphthalene	12.216	12.216	12.209	12.209	12.201	12.209	12.201	12.209	9.209-15.209	12.209	0.006
	29 4-Chloroaniline	12.324	12.324	12.317	12.317	12.324	12.324	12.340	12.317	9.317-15.317	12.324	0.008

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	30 Hexachlorobutadiene	12.564	12.564	12.556	12.556	12.556	12.556	12.564	12.556	9.556-15.556	12.560	0.004
	31 4-Chloro-3-methylpheno	13.276	13.268	13.268	13.268	13.268	13.268	13.284	13.268	10.268-16.268	13.271	0.006
	32 2-Methylnaphthalene	13.609	13.609	13.601	13.601	13.601	13.601	13.601	13.601	10.601-16.601	13.603	0.004
	33 Hexachlorocyclopentadi	14.073	14.073	14.065	14.065	14.065	14.065	14.065	14.065	11.065-17.065	14.068	0.004
	34 2,4,6-Trichlorophenol	14.220	14.220	14.220	14.212	14.212	14.220	14.228	14.220	11.220-17.220	14.219	0.005
	35 2,4,5-Trichlorophenol	14.305	14.298	14.298	14.298	14.297	14.305	14.305	14.298	11.298-17.298	14.301	0.004
$	36 2-Fluorobiphenyl	14.383	14.375	14.375	14.375	14.367	14.367	14.375	14.375	11.375-17.375	14.374	0.005
	37 2-Chloronaphthalene	14.607	14.607	14.599	14.599	14.599	14.599	14.599	14.599	11.599-17.599	14.601	0.004
	38 2-Nitroaniline	14.862	14.847	14.847	14.839	14.839	14.855	14.862	14.847	11.847-17.847	14.850	0.010
	39 Dimethylphthalate	15.273	15.265	15.257	15.257	15.257	15.257	15.257	15.257	12.257-18.257	15.260	0.006
	40 Acenaphthylene	15.489	15.482	15.482	15.474	15.474	15.474	15.474	15.482	12.482-18.482	15.478	0.006
	41 2,6-Dinitrotoluene	15.420	15.412	15.404	15.404	15.404	15.404	15.412	15.404	12.404-18.404	15.409	0.006
*	42 Acenaphthene-d10	15.791	15.799	15.791	15.791	15.791	15.791	15.791	15.791	12.791-18.791	15.792	0.003
	43 3-Nitroaniline	15.714	15.714	15.691	15.691	15.690	15.714	15.737	15.691	12.691-18.691	15.707	0.018
	44 Acenaphthene	15.869	15.861	15.861	15.861	15.853	15.861	15.853	15.861	12.861-18.861	15.860	0.005
	45 2,4-Dinitrophenol	15.938	15.923	15.907	15.907	15.915	15.954	+++++	15.907	12.907-18.907	15.924	0.019
	46 Dibenzofuran	16.193	16.193	16.186	16.186	16.185	16.186	16.185	16.186	13.186-19.186	16.188	0.004
	47 4-Nitrophenol	16.023	16.015	16.008	16.015	16.038	+++++	+++++	16.008	13.008-19.008	16.020	0.012
	48 2,4-Dinitrotoluene	16.240	16.232	16.224	16.216	16.216	16.216	16.232	16.224	13.224-19.224	16.225	0.009
	49 Fluorene	16.912	16.905	16.905	16.897	16.897	16.905	16.897	16.905	13.905-19.905	16.902	0.006
	50 Diethylphthalate	16.734	16.727	16.719	16.719	16.711	16.719	16.719	16.719	13.719-19.719	16.721	0.007
	51 4-Chlorophenyl-phenyle	16.881	16.881	16.874	16.874	16.873	16.874	16.874	16.874	13.874-19.874	16.876	0.004
	52 4-Nitroaniline	17.012	16.989	16.974	16.974	16.966	16.982	17.005	16.974	13.974-19.974	16.986	0.017
	53 4,6-Dinitro-2-methylph	17.097	17.082	17.066	17.067	17.066	17.074	17.097	17.066	14.066-20.066	17.079	0.014

ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
	54 N-Nitrosodiphenylamine	17.136	17.128	17.120	17.120	17.112	17.120	17.120	17.120	14.120-20.120	17.123	0.007
$	55 2,4,6-Tribromophenol	17.444	17.444	17.437	17.437	17.436	17.444	17.452	17.437	14.437-20.437	17.442	0.006
	56 4-Bromophenyl-phenylet	17.892	17.892	17.884	17.884	17.883	17.891	17.884	17.884	14.884-20.884	17.887	0.004
	57 Hexachlorobenzene	18.223	18.223	18.215	18.215	18.215	18.215	18.223	18.215	15.215-21.215	18.219	0.004
	58 Pentachlorophenol	18.580	18.580	18.587	18.595	+++++	+++++	+++++	18.587	15.587-21.587	18.585	0.007
*	59 Phenanthrene-d10	18.850	18.850	18.843	18.843	18.842	18.843	18.842	18.843	15.843-21.843	18.845	0.004
	60 Phenanthrene	18.897	18.897	18.897	18.889	18.889	18.897	18.897	18.897	15.897-21.897	18.894	0.004
	61 Anthracene	18.997	18.990	18.990	18.982	18.982	18.982	18.989	18.990	15.990-21.990	18.987	0.006
	62 Carbazole	19.299	19.299	19.299	19.299	19.299	19.299	19.307	19.299	16.299-22.299	19.300	0.003
	63 Di-n-butylphthalate	20.050	20.050	20.050	20.050	20.041	20.050	20.049	20.050	17.050-23.050	20.048	0.003
	64 Fluoranthene	21.257	21.249	21.249	21.249	21.241	21.249	21.249	21.249	18.249-24.249	21.249	0.005
	65 Pyrene	21.682	21.674	21.667	21.674	21.666	21.674	21.674	21.667	18.667-24.667	21.673	0.005
$	66 Terphenyl-d14	21.930	21.930	21.930	21.930	21.929	21.930	21.930	21.930	18.930-24.930	21.930	0.000
	67 Butylbenzylphthalate	22.836	22.836	22.828	22.836	22.828	22.836	22.835	22.828	19.828-25.828	22.833	0.004
	68 Benzo(a)anthracene	23.827	23.827	23.819	23.819	23.819	23.819	23.819	23.819	20.819-26.819	23.821	0.004
*	69 Chrysene-d12	23.858	23.858	23.850	23.850	23.842	23.850	23.850	23.850	20.850-26.850	23.851	0.005
	70 3,3'-Dichlorobenzidine	23.773	23.765	23.757	23.757	23.757	23.757	23.765	23.757	20.757-26.757	23.762	0.006
	71 Chrysene	23.904	23.897	23.897	23.897	23.888	23.896	23.896	23.897	20.897-26.897	23.896	0.005
	72 bis(2-Ethylhexyl)phtha	23.850	23.842	23.842	23.842	23.842	23.842	23.850	23.842	20.842-26.842	23.844	0.004
	73 Di-n-octylphthalate	24.918	24.918	24.911	24.918	24.910	24.918	24.918	24.911	21.911-27.911	24.916	0.004
	74 Benzo(b)fluoranthene	25.917	25.909	25.902	25.902	25.894	25.894	25.909	25.902	22.902-28.902	25.904	0.009
	75 Benzo(k)fluoranthene	25.971	25.964	25.956	25.956	25.940	25.956	25.948	25.956	22.956-28.956	25.956	0.010
	187 Total Benzofluoranthen	25.971	25.909	25.902	25.956	25.940	25.956	25.909	25.902	22.902-28.902	25.935	0.028
	76 Benzo(a)pyrene	26.676	26.676	26.660	26.660	26.660	26.660	26.660	26.660	23.660-29.660	26.665	0.008

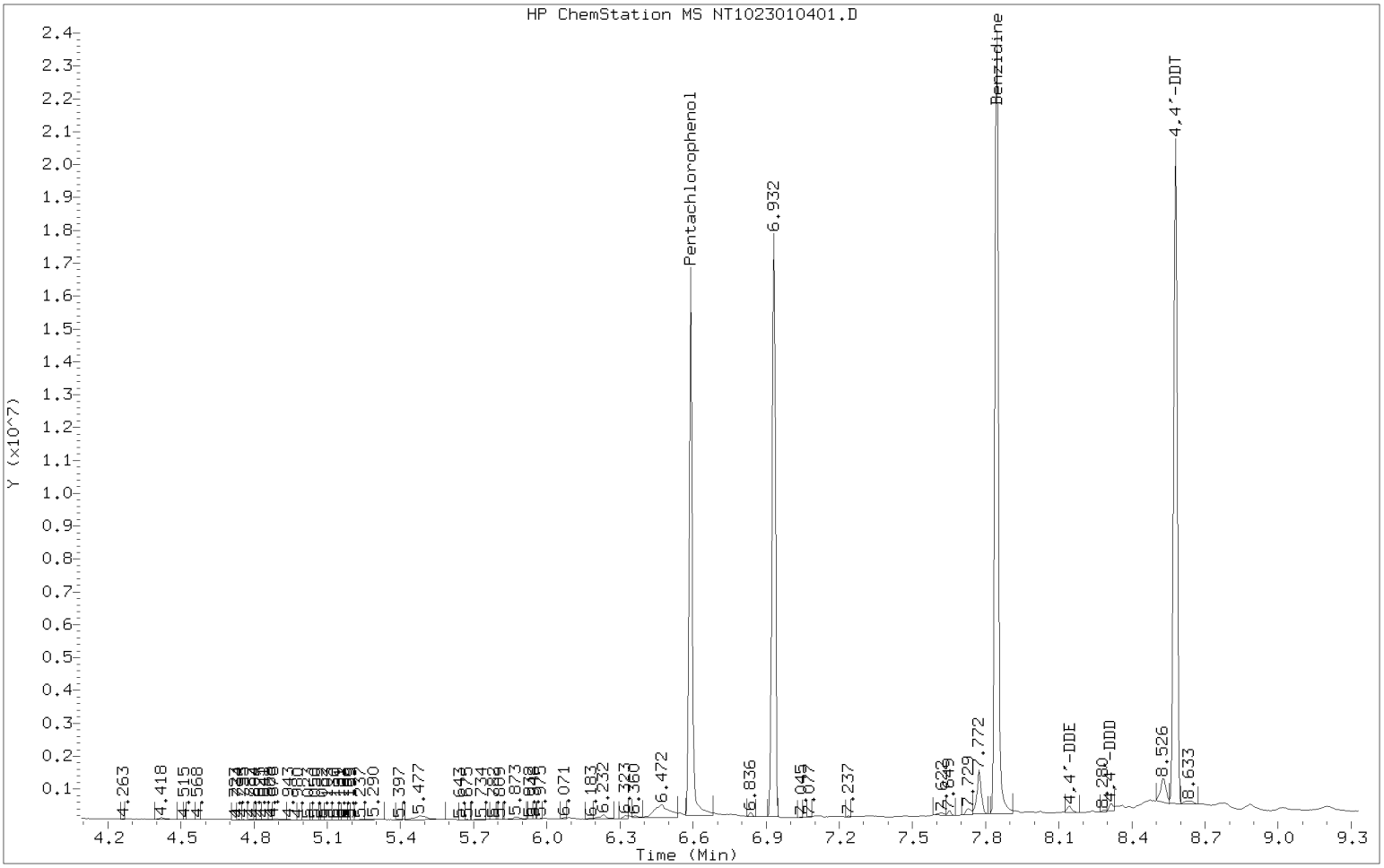
ARI Labs, Inc.
RETENTION TIME SUMMARY REPORT

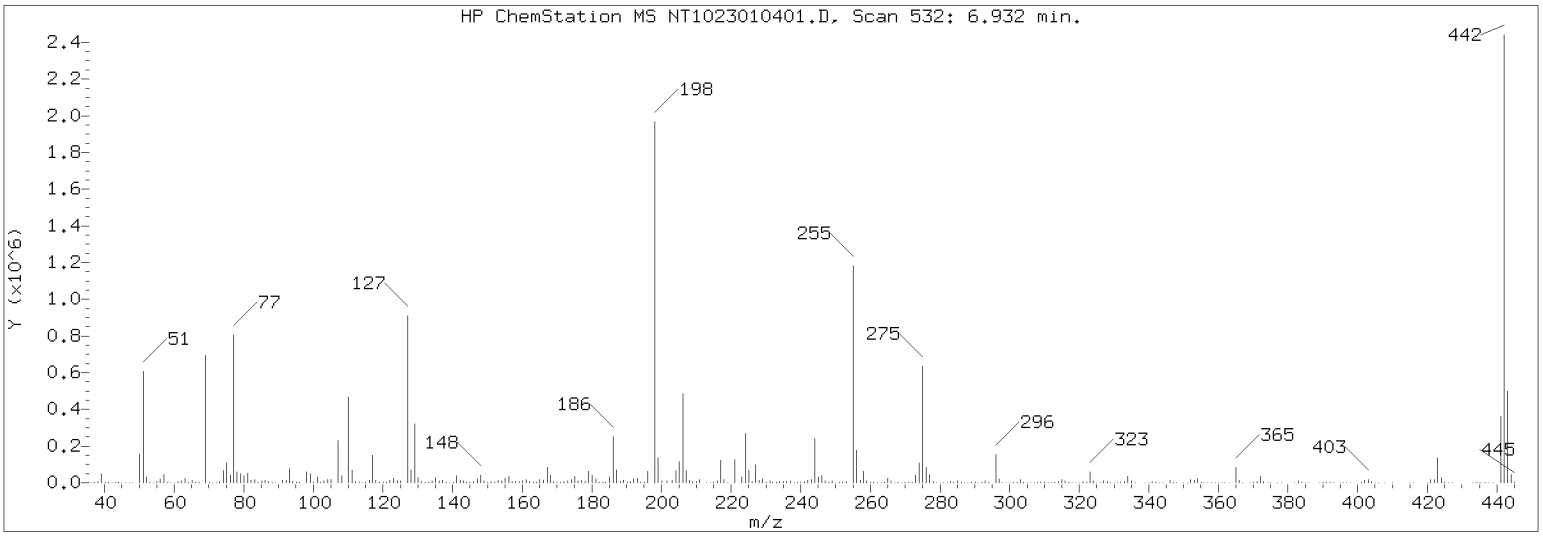
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Batch File: \\target\share\chem3\nt10.i\20230104.b
Inst ID: nt10.i

	Compound	RT01	RT02	RT03	RT04	RT05	RT06	RT07	EXPEC RT	RT WINDOW	AVG RT	STD DEV
*	77 Perylene-d12	26.800	26.800	26.792	26.800	26.792	26.792	26.800	26.792	23.792-29.792	26.796	0.004
	78 Indeno(1,2,3-cd)pyrene	29.955	29.939	29.924	29.916	29.908	29.924	29.916	29.924	26.924-32.924	29.926	0.016
	79 Dibenzo(a,h)anthracene	29.970	29.955	29.924	29.931	29.931	29.931	29.931	29.924	26.924-32.924	29.939	0.017
	80 Benzo(g,h,i)perylene	30.895	30.871	30.848	30.840	30.848	30.840	30.840	30.848	27.848-33.848	30.855	0.021
$	85 p-Cresol-d4	+++++	+++++	+++++	+++++	+++++	+++++	+++++	51.633	48.633-54.633	+++++	+++++
$	86 Anthracene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	63.533	60.533-66.533	+++++	+++++
$	87 Fluoranthene-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	60.273	57.273-63.273	+++++	+++++
$	88 Dibenz(a,h)anthracene-	+++++	+++++	+++++	+++++	+++++	+++++	+++++	78.600	75.600-81.600	+++++	+++++
$	89 Diphenyl-d10	+++++	+++++	+++++	+++++	+++++	+++++	+++++	50.841	47.841-53.841	+++++	+++++
	90 N-Nitrosodimethylamine	5.275	5.275	5.267	5.267	5.267	5.275	5.282	5.267	2.267-8.267	5.272	0.006
	91 Aniline	9.129	9.121	9.113	9.121	9.121	9.129	9.144	9.113	6.113-12.113	9.125	0.010
	92 1,2-Diphenylhydrazine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	56.160	53.160-59.160	+++++	+++++
	93 Benzidine	21.465	21.458	21.458	21.458	21.457	21.473	21.488	21.458	18.458-24.458	21.465	0.012
$	95 D10-1-methylnaphthalen	+++++	+++++	+++++	+++++	+++++	+++++	+++++	52.075	49.075-55.075	+++++	+++++
	96 p-Cymene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	49.250	46.250-52.250	+++++	+++++
	97 Caffeine	+++++	+++++	+++++	+++++	+++++	+++++	+++++	61.202	58.202-64.202	+++++	+++++
	98 Retene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	18.248	15.248-21.248	+++++	+++++
	99 Perylene	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.094	23.094-29.094	+++++	+++++
	100 3-beta-Coprostanol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	25.411	22.411-28.411	+++++	+++++
	101 Cholesterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	26.023	23.023-29.023	+++++	+++++
	102 beta-Sitosterol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	79.550	76.550-82.550	+++++	+++++
	103 Pyridine	5.275	5.282	5.290	5.306	5.328	+++++	+++++	5.290	2.290-8.290	5.296	0.021
	188 2,6-Dichlorophenol	+++++	+++++	+++++	+++++	+++++	+++++	+++++	11.874	8.874-14.874	+++++	+++++
	189 N-Nitrosomethylethylam	+++++	+++++	+++++	+++++	+++++	+++++	+++++	5.818	2.818-8.818	+++++	+++++

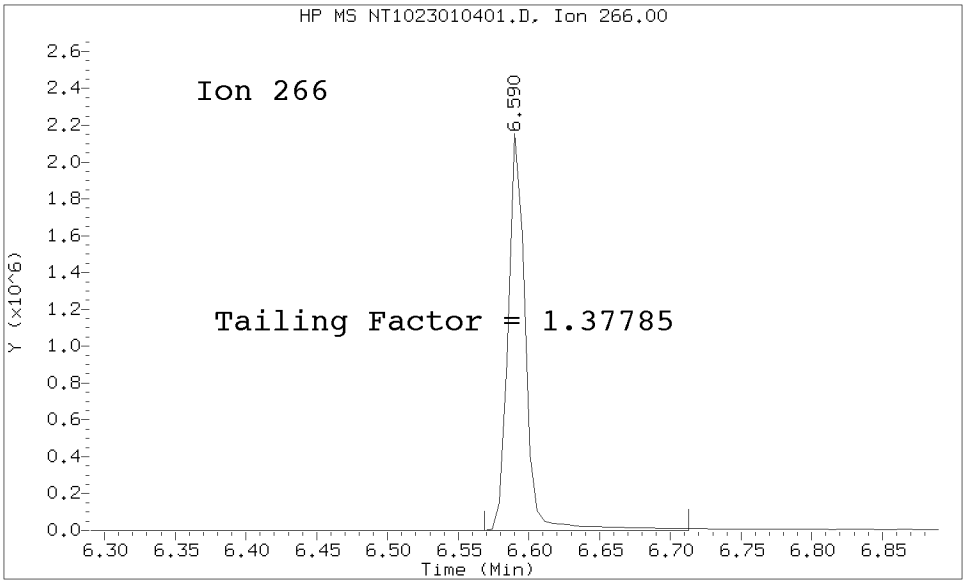
DFTPP TAILING FACTOR AND BREAKDOWN GRAPHIC REPORT

Datafile Analyzed: /20230104.b/NT1023010401.D/NT1023010401.D
Method Used: \20230104.b\DFTPP8270E.m Inst: nt10
Injection Date: 04-JAN-2023 08:46 Operator: DSD
Sample Info: SLA0012-TUN1 SLA0012-TUN1
Report Date: 01/05/2023 11:53



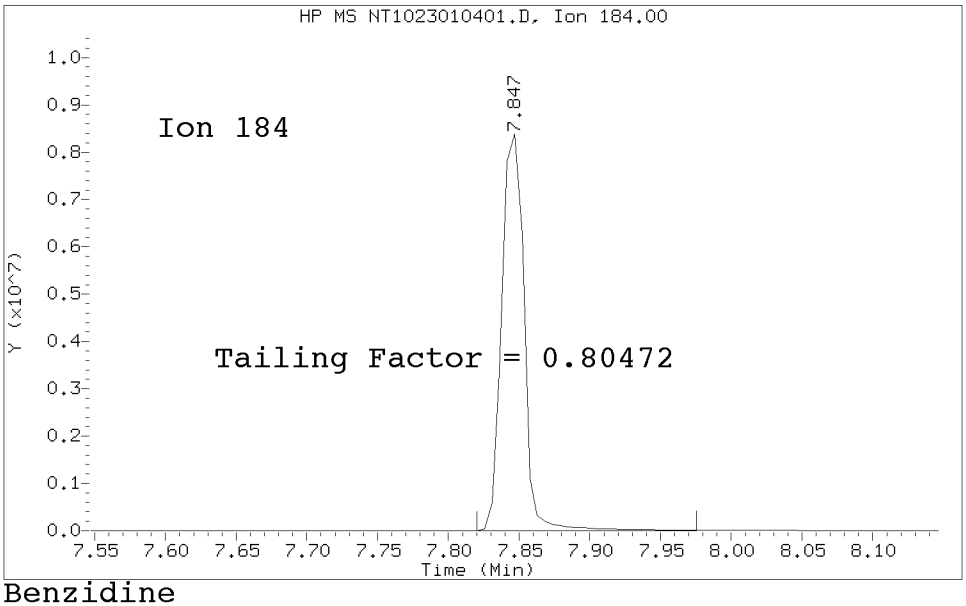


Datafile Analyzed: /20230104.b/NT1023010401.D/NT1023010401.D
Method Used: \20230104.b\DFTPP8270E.m\sw846ddt.m Inst: nt10
Injection Date: 04-JAN-2023 08:46 Operator: DSD
Sample Info: SLA0012-TUN1
Report Date: 01/05/2023 11:53



Pentachlorophenol
==========
 Exp. RT = 6.633
Found RT = 6.590

Tail Factor = 1.378 Maximum Allowed = 2.0



Benzidine
==========
 Exp. RT = 7.895
Found RT = 7.847

Tail Factor = 0.805 Maximum Allowed = 2.0

8270 TAILING FACTOR/BREAKDOWN SUMMARY RESULTS

TAILING ANALYSIS SUMMARY

Compound	Tail Factor	Max Allowed	Test
Pentachlorophenol	1.3778502	2.000	PASS
Benzidine	0.8047210	2.000	PASS

DDT DEGRADATION BREAKDOWN ANALYSIS SUMMARY

Compound	Response	%Breakdown	Max Allowed	Test
4,4-DDT	3968354			N/A
4,4-DDE	146	0.0	20.0	PASS
4,4-DDD	20262	0.5	20.0	PASS
4,4-DDD + DDE	20408	0.5	20.0	PASS

Tuning Sample, nt10.i/20230104.b/NT1023010401.D, *** PASSED ***

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
198	Base Peak, 100% relative abundance	100.00
68	Less than 2.00% of mass 69	0.00 (0.00)
69	Mass 69 relative abundance	36.52
70	Less than 2.00% of mass 69	0.16 (0.45)
197	Less than 2.00% of mass 198	0.00
199	5.00 - 9.00% of mass 198	6.89
365	1.00 - 100.00% of mass 198	3.88
441	Less than 150.00% of mass 443	16.75 (74.29)
442	Less than 200.00% of mass 198	113.08
443	15.00 - 24.00% of mass 442	22.55 (19.94)

Data File: NT1023010401.D
Spectrum: Avg. Scans 531-533 (6.93), Background Scan 526
Location of Maximum: 442.00
Number of points: 362

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	39	139.00	1218	235.00	6167	328.00	4625
37.00	2194	140.00	3459	236.00	4387	329.00	1120
38.00	6608	141.00	32736	237.00	7456	330.00	308
39.00	37560	142.00	10941	238.00	1104	331.00	402
40.00	1519	143.00	7320	239.00	3507	332.00	3121
41.00	730	144.00	2045	240.00	2744	333.00	4523
45.00	428	145.00	2055	241.00	4850	334.00	27424
46.00	133	146.00	5594	242.00	12504	335.00	7601
48.00	352	147.00	16632	243.00	15021	336.00	992
50.00	132416	148.00	36536	244.00	192640	339.00	733
51.00	495936	149.00	7812	245.00	26192	340.00	732
52.00	26240	150.00	2591	246.00	30736	341.00	5399
53.00	855	151.00	4327	247.00	7016	342.00	1573
54.00	238	152.00	4705	248.00	1772	343.00	314
55.00	1894	153.00	10245	249.00	7095	344.00	219
56.00	15386	154.00	8309	250.00	1436	345.00	116
57.00	35752	155.00	19496	251.00	1459	346.00	11496
58.00	1459	156.00	29664	252.00	1761	347.00	2061
59.00	123	157.00	6577	253.00	4246	348.00	299
61.00	6651	158.00	6158	255.00	961984	350.00	515
62.00	7641	159.00	4537	256.00	141312	351.00	974
63.00	21224	160.00	10486	257.00	11549	352.00	14229
64.00	3113	161.00	15669	258.00	49248	353.00	9444
65.00	11136	162.00	4669	259.00	7725	354.00	14808
66.00	1059	163.00	1424	260.00	1604	355.00	2586
67.00	663	164.00	2283	261.00	1914	356.00	387
69.00	596032	165.00	11828	262.00	370	357.00	293
70.00	2663	166.00	10523	263.00	489	358.00	355
72.00	153	167.00	66232	264.00	2541	359.00	1018
73.00	3734	168.00	34480	265.00	19704	360.00	253
74.00	56096	169.00	5274	266.00	5391	361.00	401
75.00	91240	170.00	2251	267.00	897	362.00	59
76.00	34704	171.00	2790	268.00	1771	363.00	231
77.00	684608	172.00	6156	269.00	280	365.00	63296
78.00	48072	173.00	8203	270.00	1562	366.00	9660
79.00	41144	174.00	14870	271.00	2133	367.00	700
80.00	31552	175.00	27784	272.00	2859	369.00	56
81.00	44640	176.00	9548	273.00	33032	370.00	1428
82.00	11284	177.00	12296	274.00	86064	371.00	3855
83.00	12035	178.00	4456	275.00	507904	372.00	26056
84.00	904	179.00	51512	276.00	69072	373.00	6540
85.00	7456	180.00	36208	277.00	35624	374.00	760
86.00	11904	181.00	16672	278.00	6304	375.00	180
87.00	5529	182.00	2963	279.00	1318	377.00	811
88.00	2222	183.00	1615	280.00	238	378.00	162
89.00	878	184.00	3945	281.00	580	382.00	70
91.00	9345	185.00	26176	282.00	1048	383.00	6810
92.00	10851	186.00	207168	283.00	4272	384.00	1968
93.00	65288	187.00	57728	284.00	2894	385.00	705

94.00	4190	188.00	6239	285.00	6779	386.00	53
95.00	40	189.00	11271	286.00	1351	389.00	394
96.00	2792	190.00	2017	287.00	154	390.00	3521
97.00	367	191.00	5600	288.00	615	391.00	2580
98.00	49416	192.00	16552	289.00	1735	392.00	1946
99.00	43104	193.00	18192	290.00	1327	393.00	395
100.00	3595	194.00	3748	291.00	843	395.00	300
101.00	24352	195.00	2707	292.00	1667	396.00	139
102.00	1359	196.00	51416	293.00	9016	397.00	333
103.00	8247	198.00	1632256	294.00	2261	398.00	147
104.00	15257	199.00	112464	296.00	119752	401.00	1722
105.00	13964	200.00	8350	297.00	16888	402.00	9902
107.00	196160	201.00	8161	298.00	1131	403.00	14445
108.00	31480	203.00	9361	299.00	466	404.00	5231
110.00	392320	204.00	53208	300.00	257	405.00	998
111.00	57544	205.00	92968	301.00	1811	406.00	65
112.00	6934	206.00	398464	302.00	2399	408.00	53
113.00	1860	207.00	52240	303.00	15356	410.00	520
114.00	572	208.00	11762	304.00	3914	415.00	816
115.00	491	209.00	4126	305.00	543	416.00	123
116.00	11741	210.00	2474	306.00	83	420.00	147
117.00	127032	211.00	15567	307.00	288	421.00	12866
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119.00	1136	214.00	481	309.00	1378	423.00	102456
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121.00	695	216.00	9071	311.00	411	425.00	2239
122.00	12604	217.00	100552	312.00	582	426.00	133
123.00	19392	218.00	13083	313.00	1345	427.00	64
124.00	8490	219.00	1202	314.00	6515	433.00	105
125.00	8637	221.00	105016	315.00	14768	434.00	179
127.00	773952	223.00	24760	316.00	8573	435.00	353
128.00	59144	224.00	218496	317.00	1652	436.00	165
129.00	273216	225.00	56360	318.00	221	437.00	380
130.00	22344	226.00	6785	319.00	313	438.00	337
131.00	4100	227.00	81304	320.00	626	439.00	420
132.00	1327	228.00	12037	321.00	4513	441.00	273472
133.00	170	229.00	18696	322.00	2445	442.00	1845760
134.00	7691	230.00	2862	323.00	45096	443.00	368128
135.00	21872	231.00	9431	324.00	8065	444.00	33472
136.00	8508	232.00	1552	325.00	1026	445.00	1973
137.00	11376	233.00	1739	326.00	1059		
138.00	2486	234.00	5659	327.00	8978		

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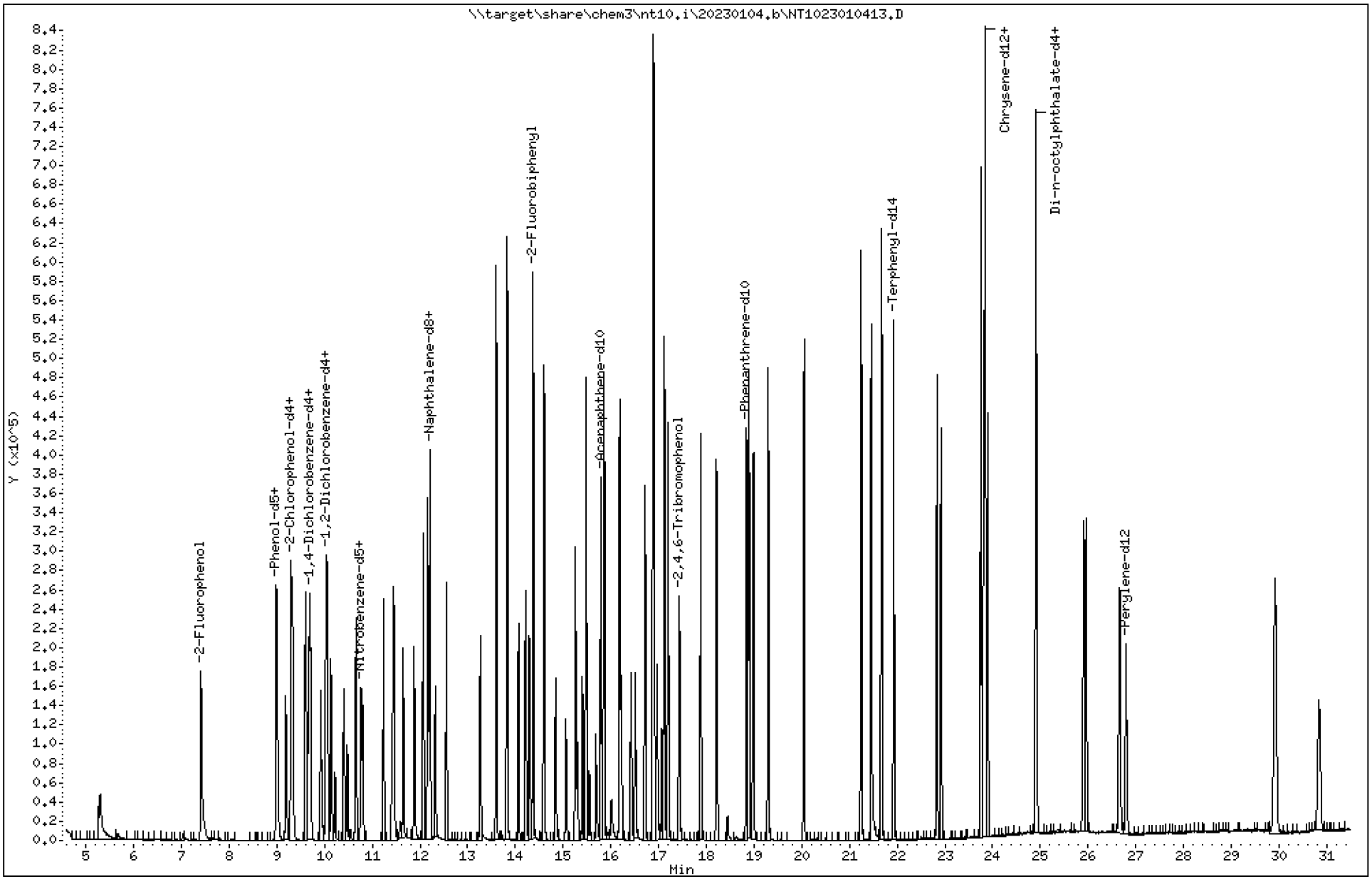
Date : 04-JAN-2023 16:58
Client ID:
Sample Info: SLA0012-SCV1

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

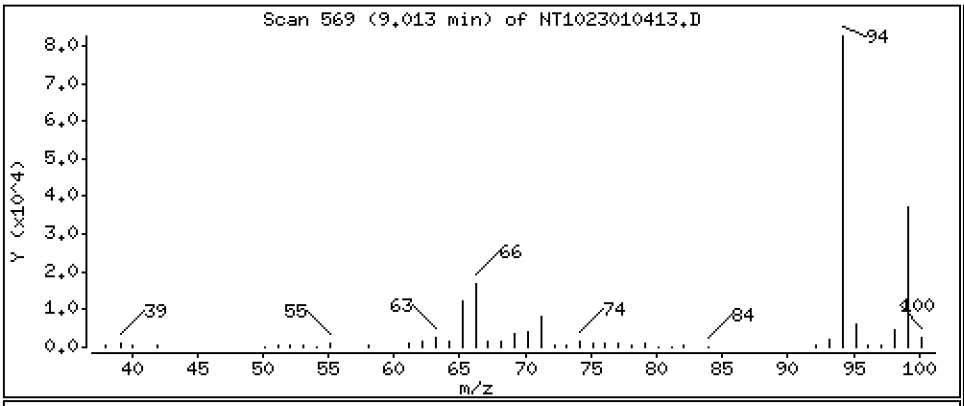
Operator: VTS

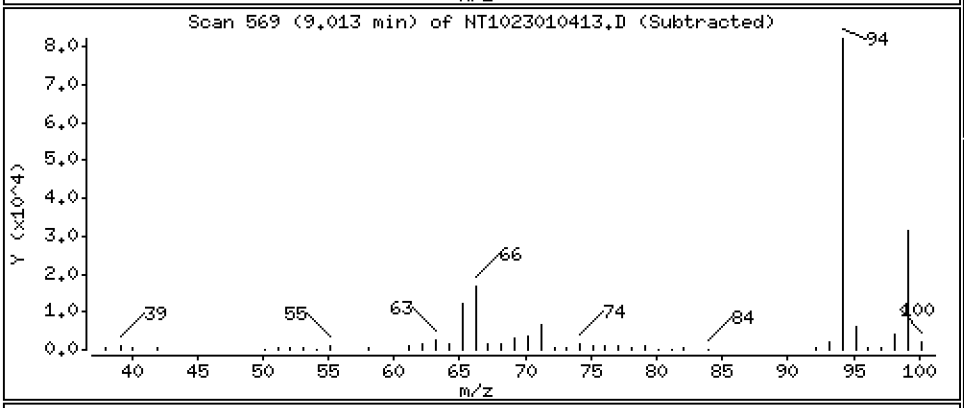
Column phase: ZB-5msi

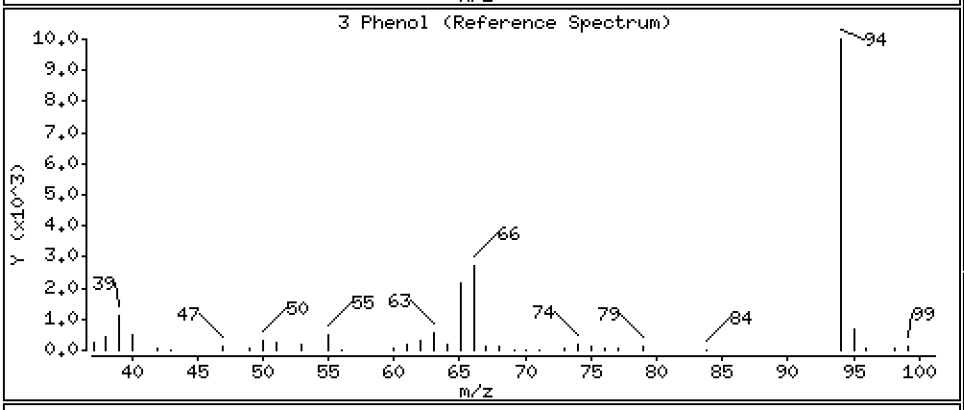
Column diameter: 0.25

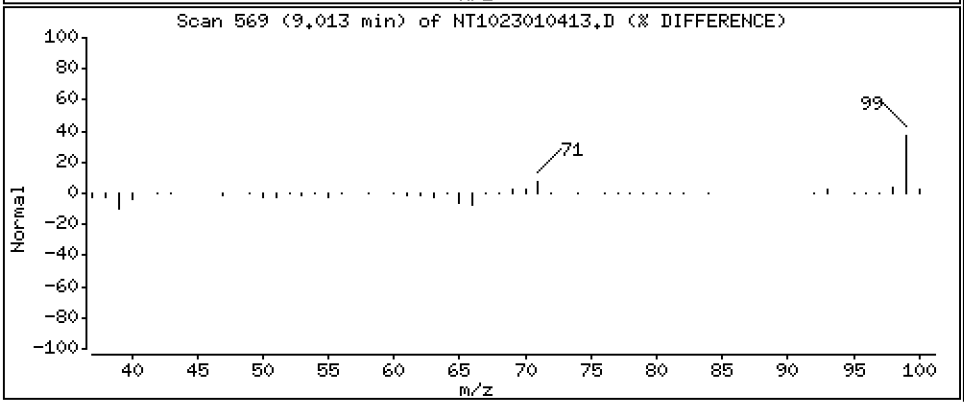
3 Phenol

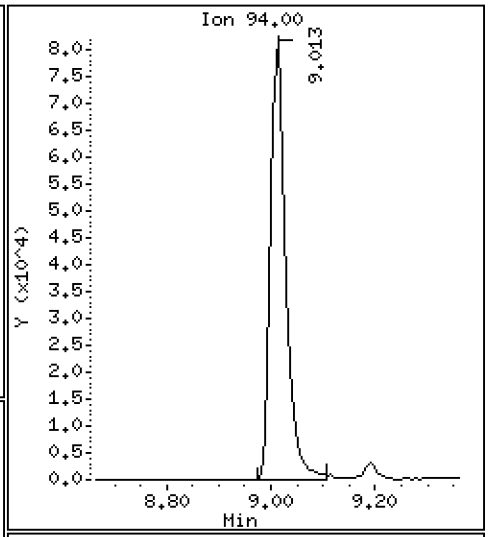
Concentration: 4.719 ug/mL

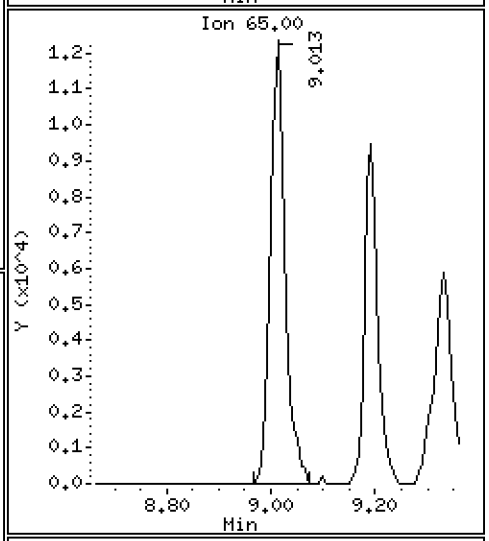


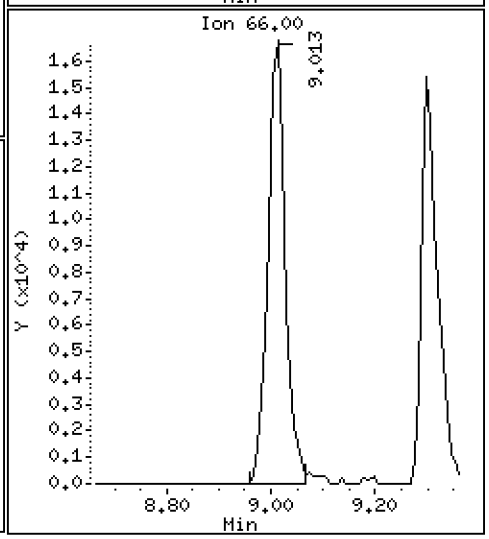












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

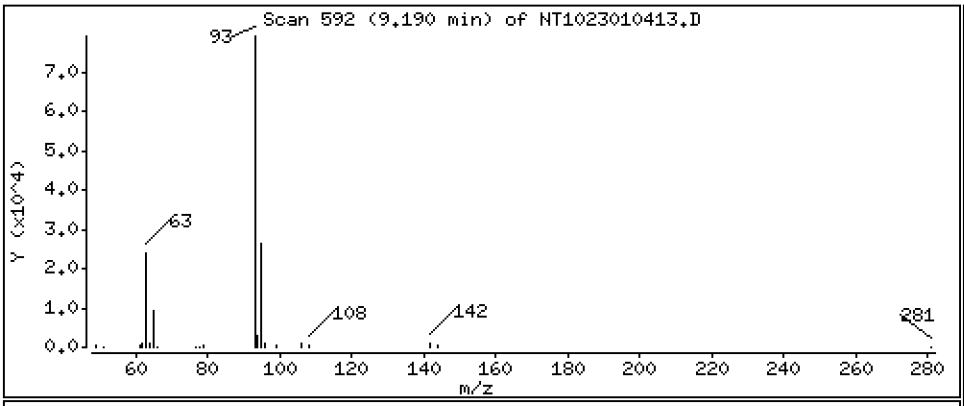
Operator: VTS

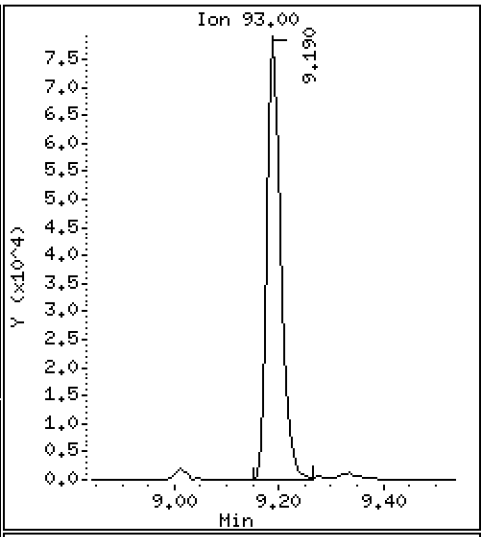
Column phase: ZB-5msi

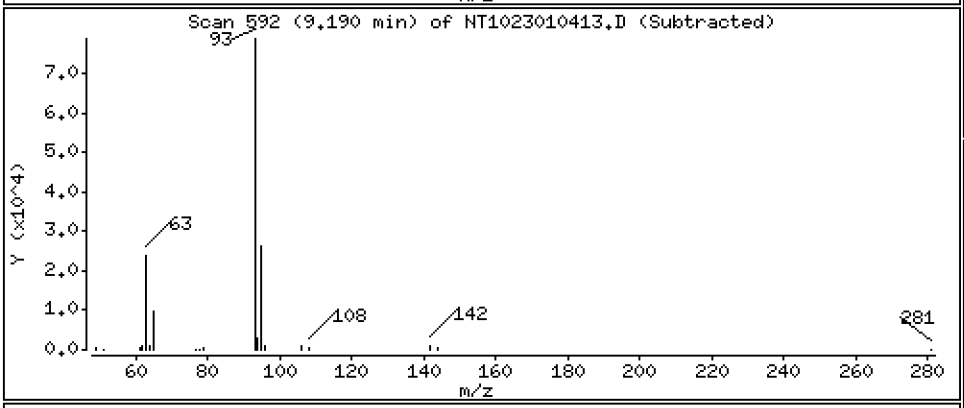
Column diameter: 0.25

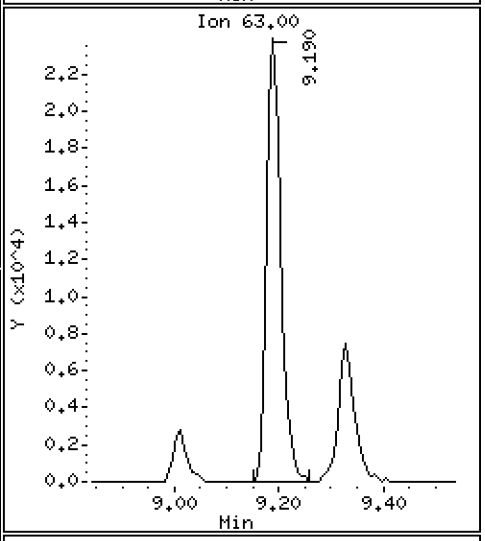
4 Bis(2-Chloroethyl)ether

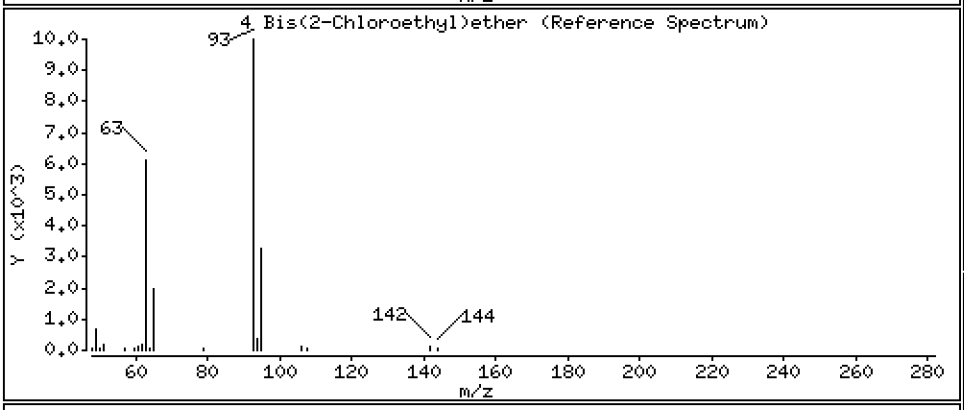
Concentration: 4.781 ug/mL

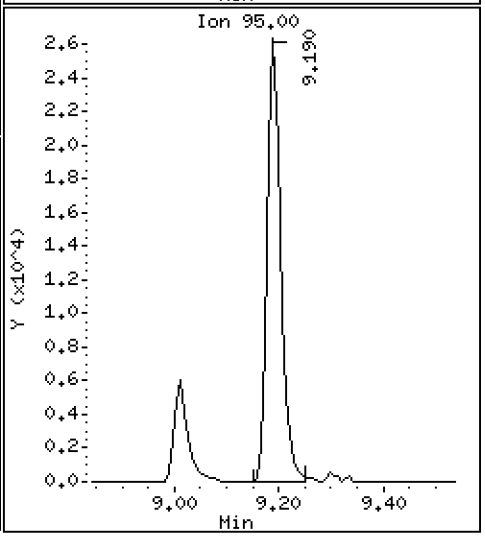


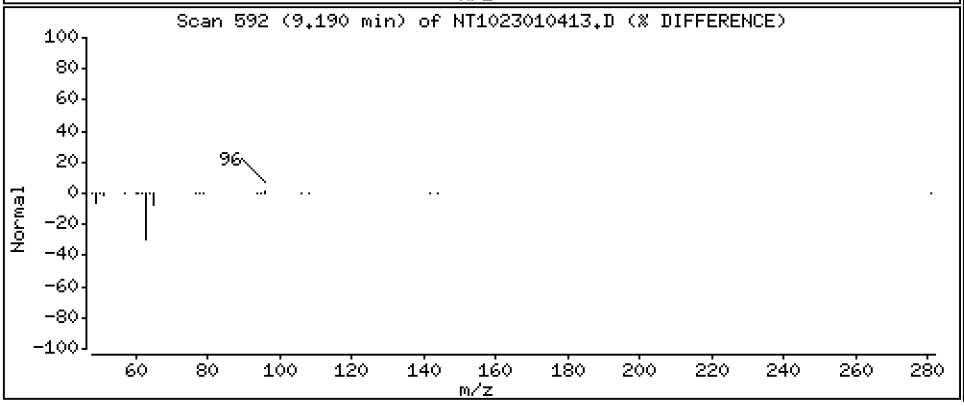












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

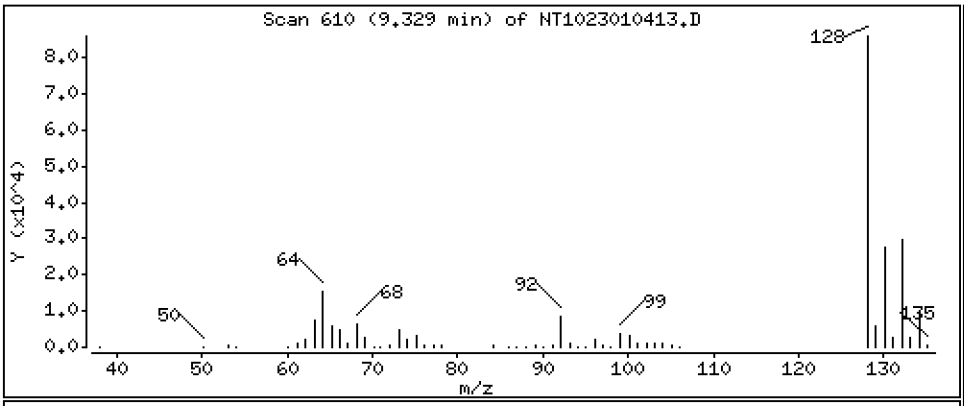
Operator: VTS

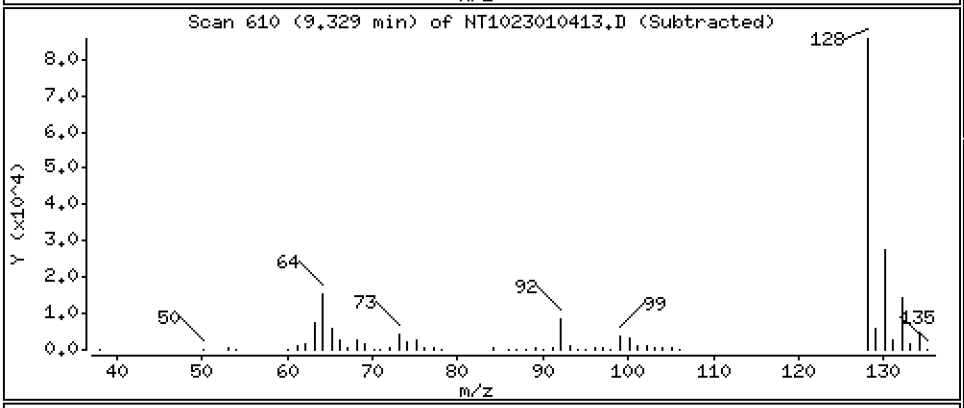
Column phase: ZB-5msi

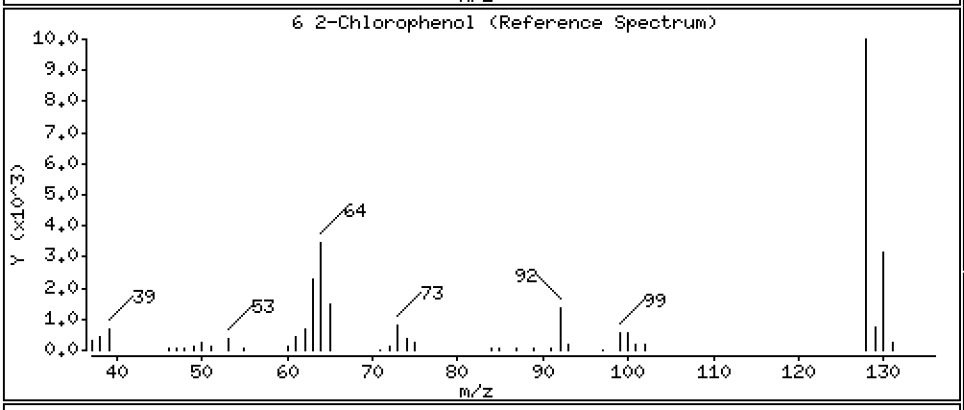
Column diameter: 0.25

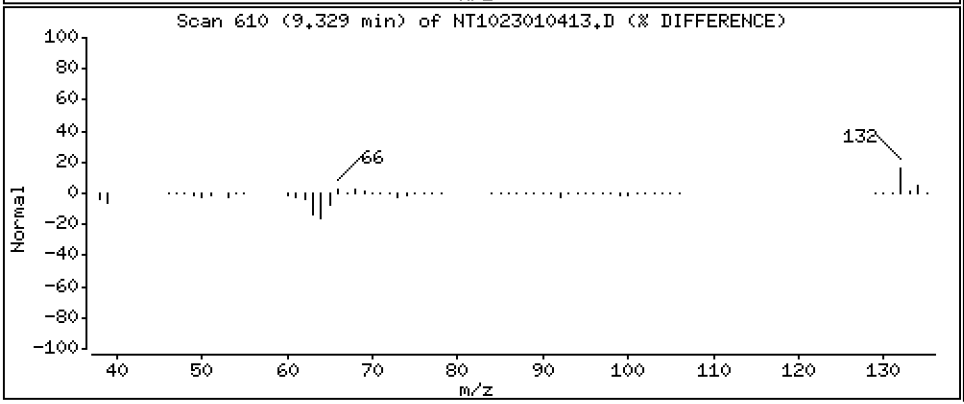
6 2-Chlorophenol

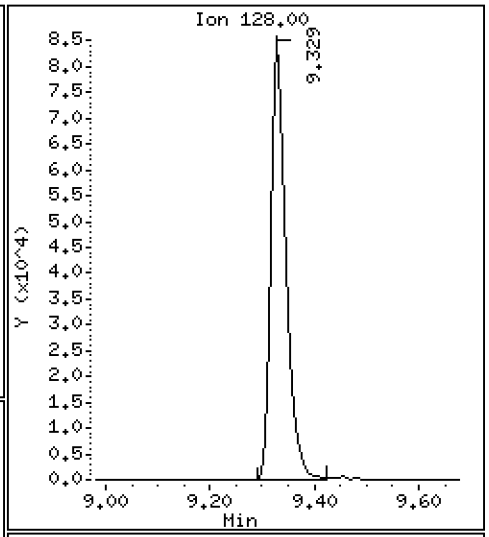
Concentration: 5.153 ug/mL

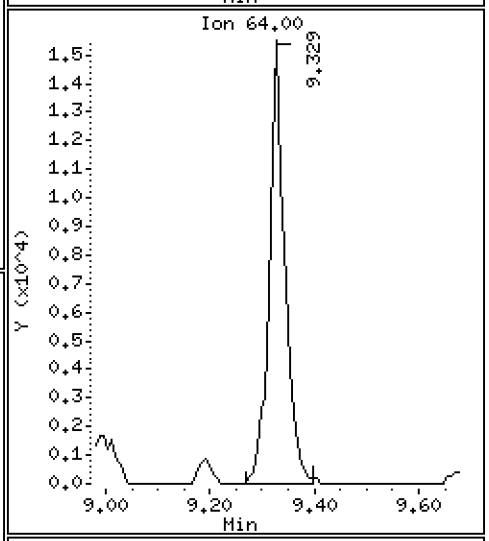


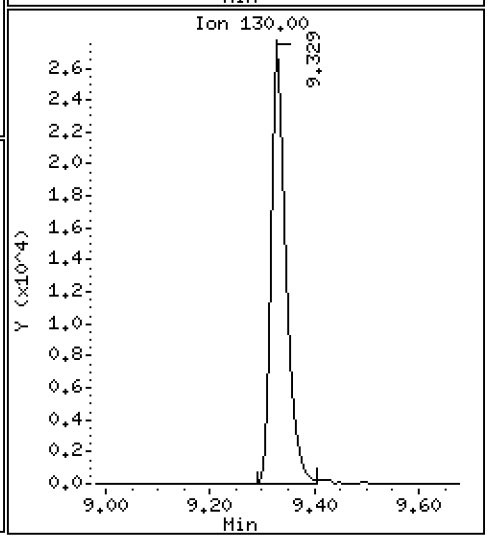












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

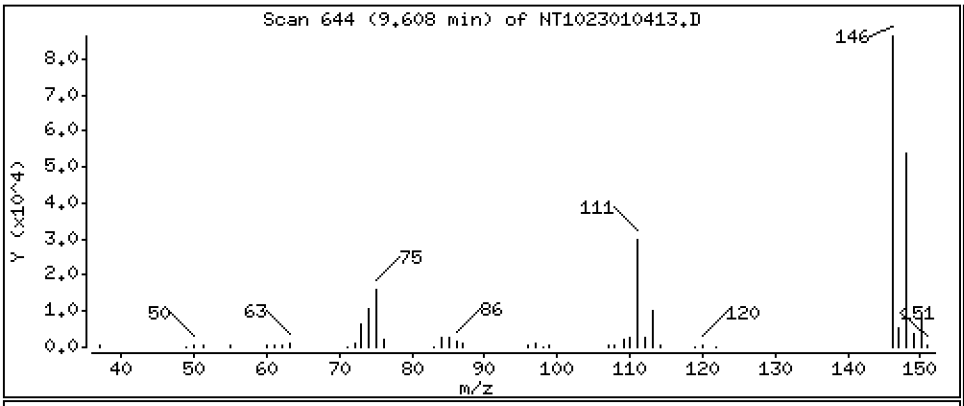
Operator: VTS

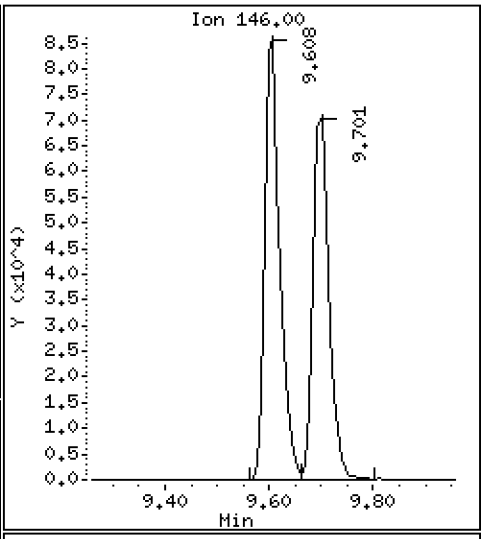
Column phase: ZB-5msi

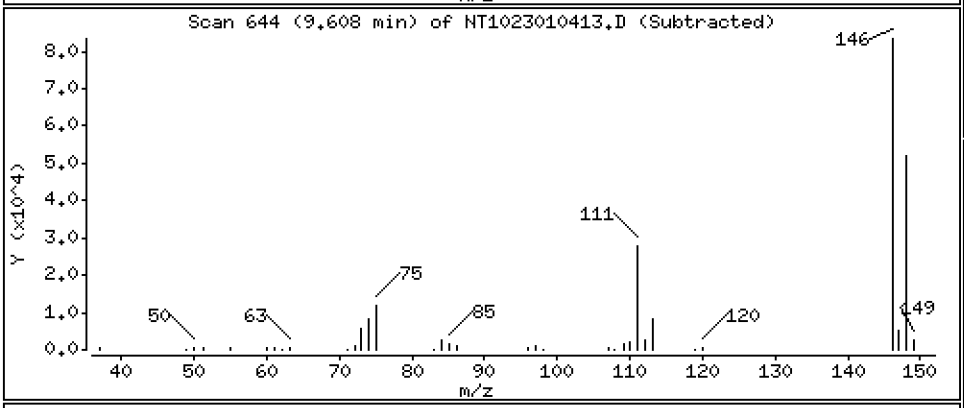
Column diameter: 0.25

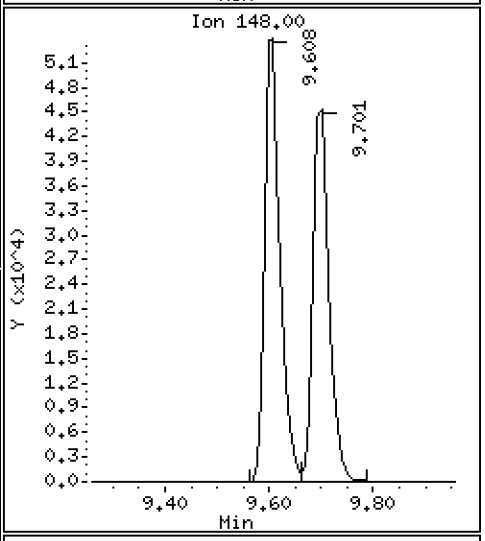
7 1,3-Dichlorobenzene

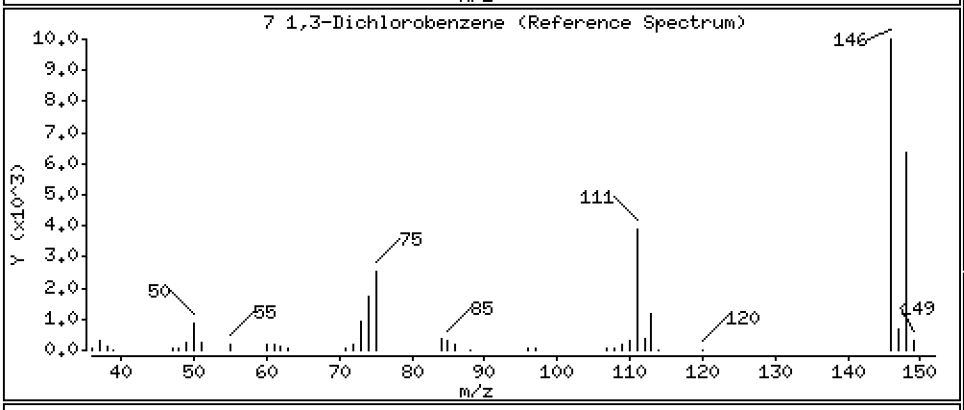
Concentration: 5.030 ug/mL

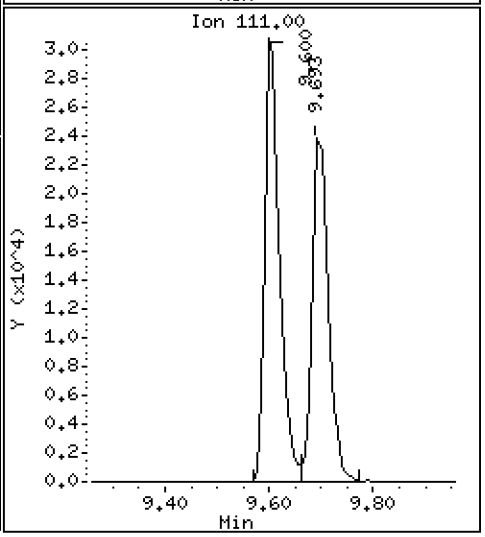


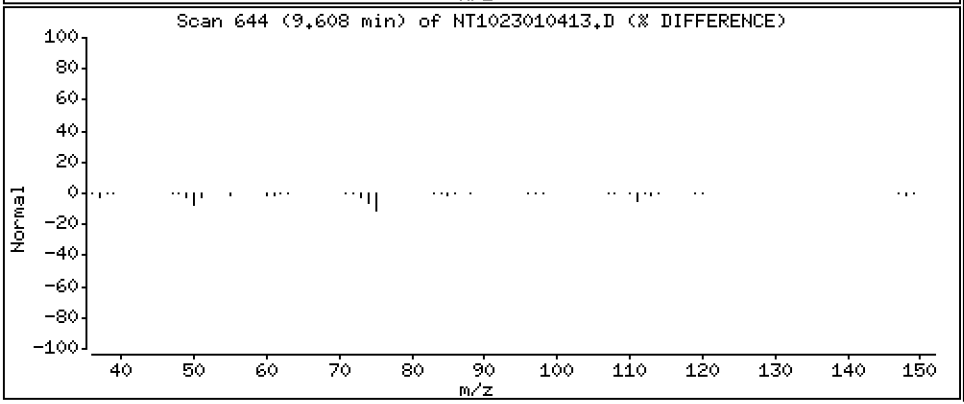












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

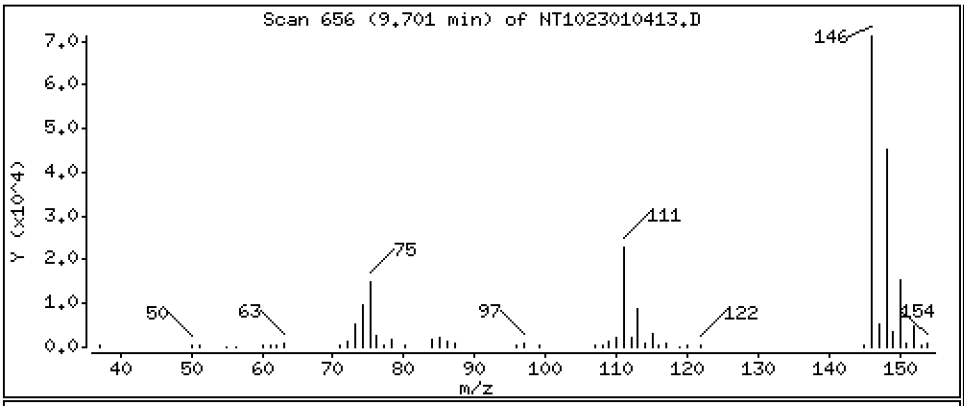
Operator: VTS

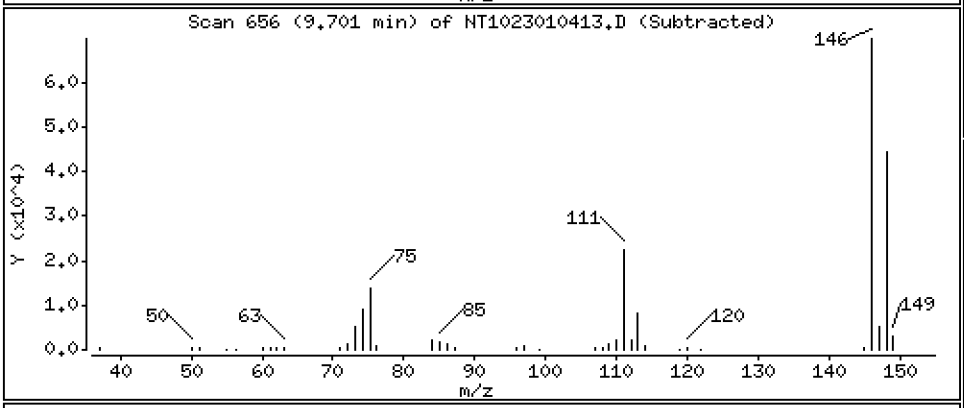
Column phase: ZB-5msi

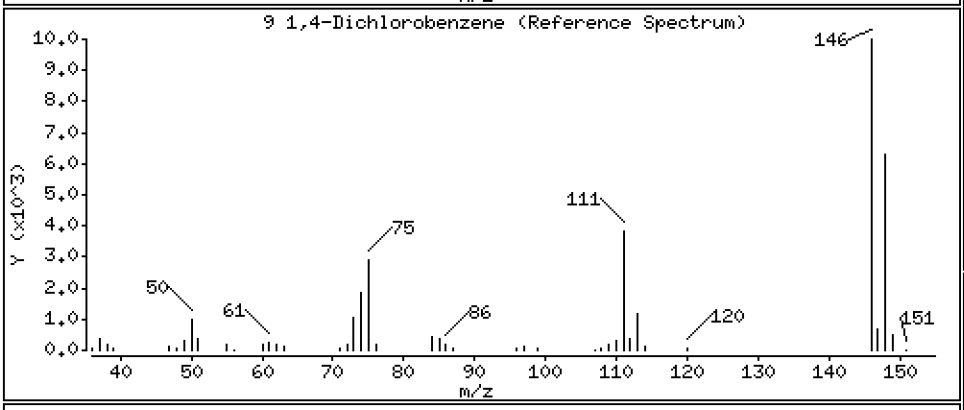
Column diameter: 0.25

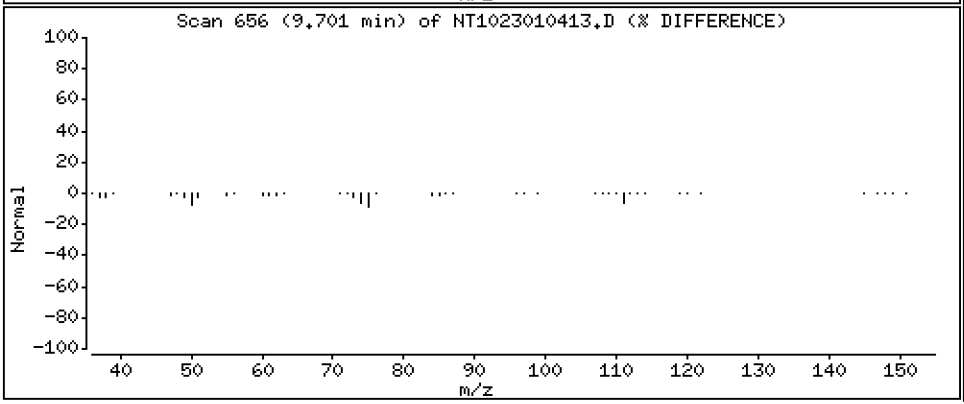
9 1,4-Dichlorobenzene

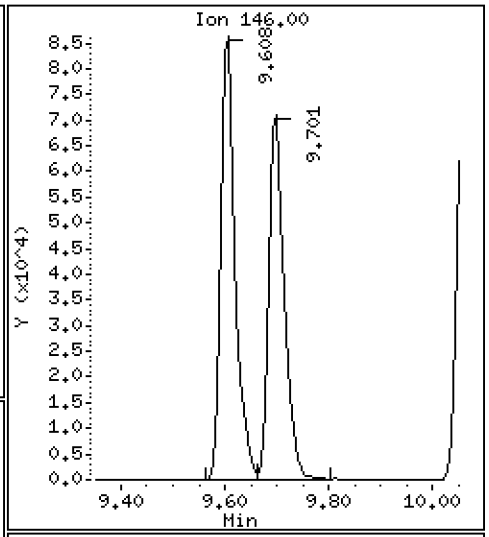
Concentration: 4.966 ug/mL

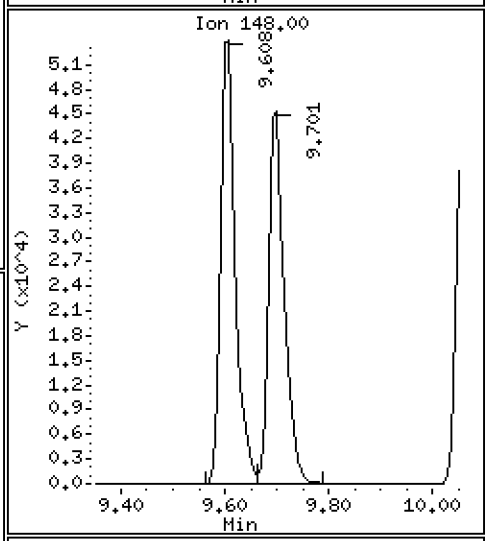


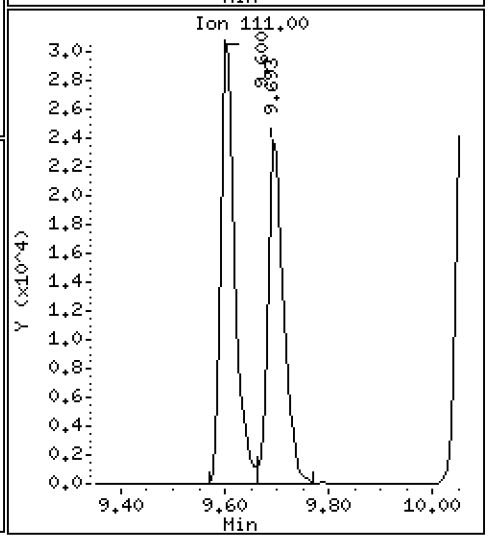












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

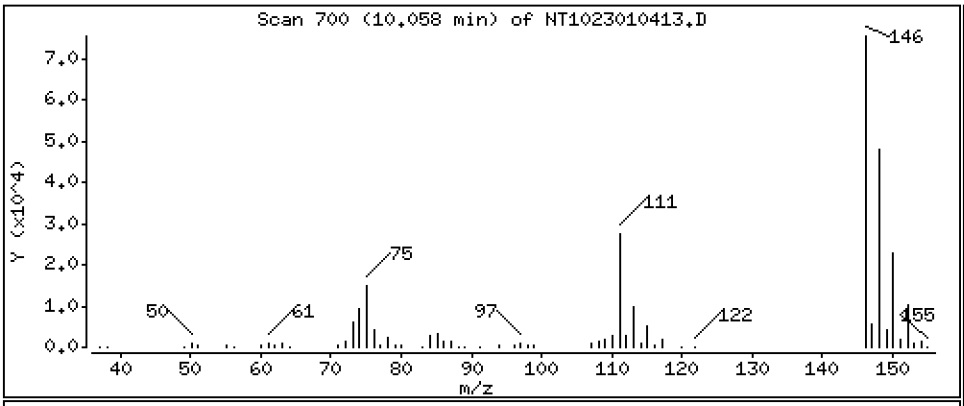
Operator: VTS

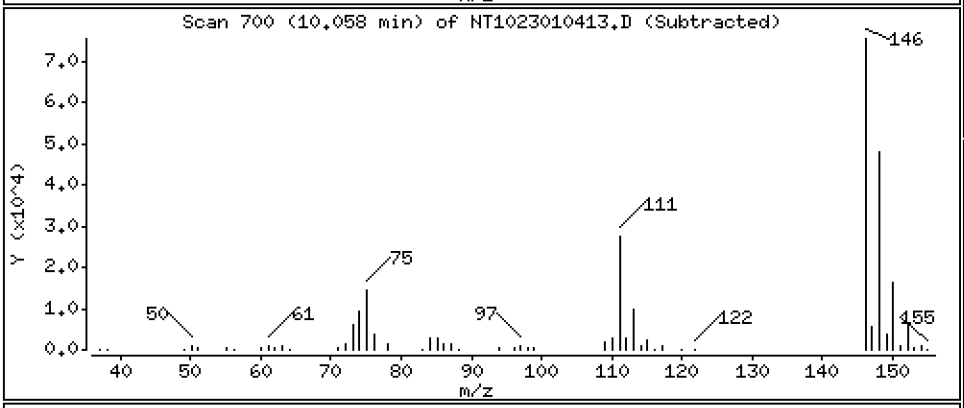
Column phase: ZB-5msi

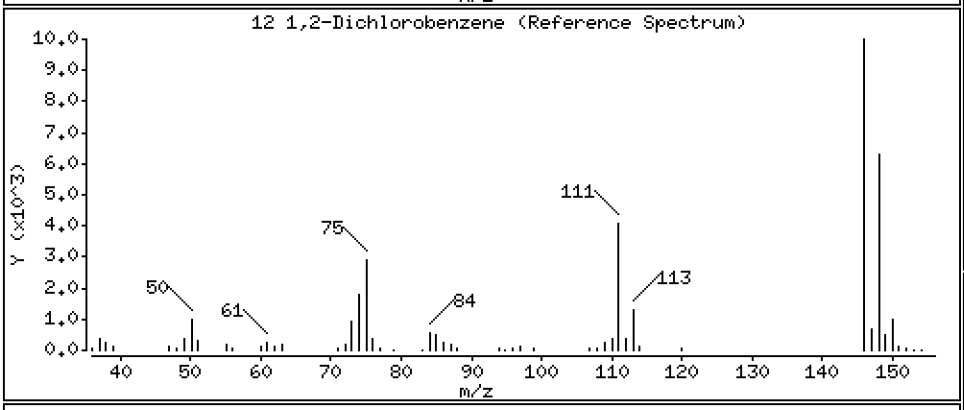
Column diameter: 0.25

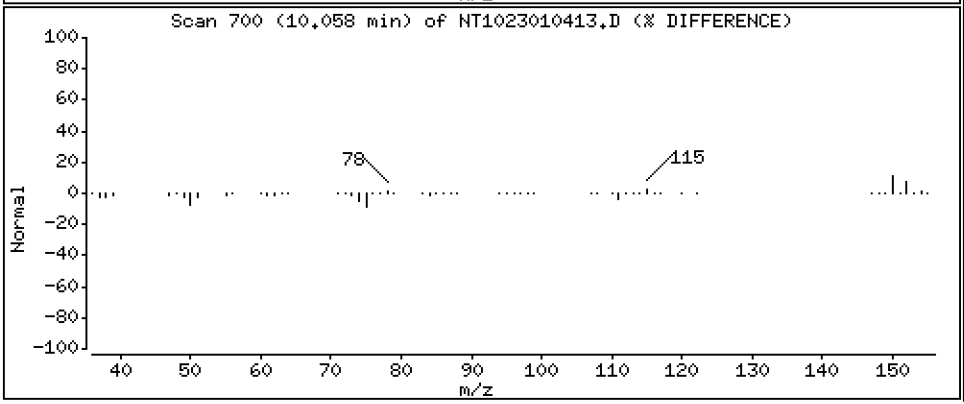
12 1,2-Dichlorobenzene

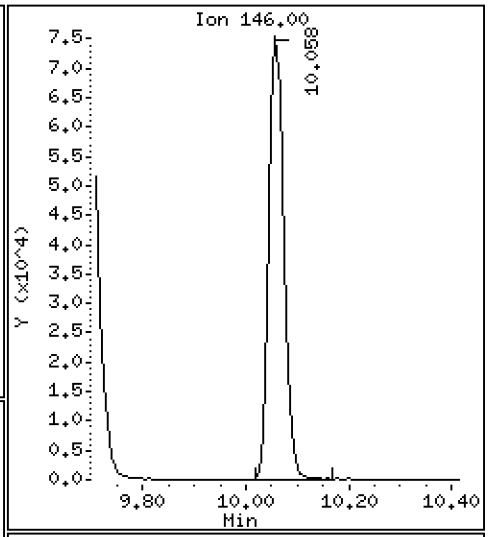
Concentration: 4.933 ug/mL

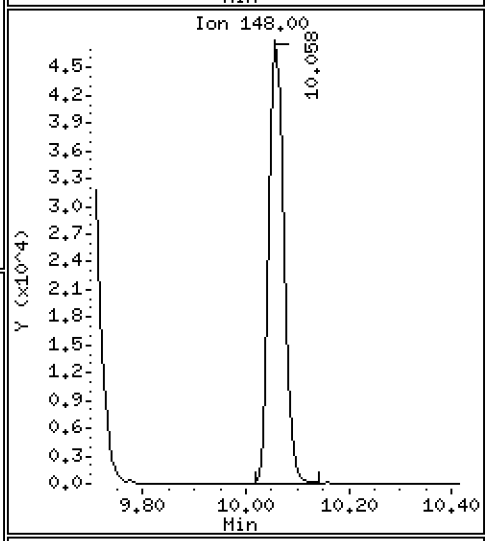


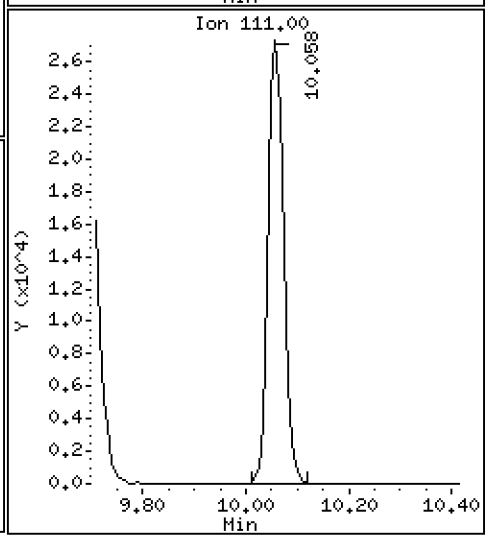












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

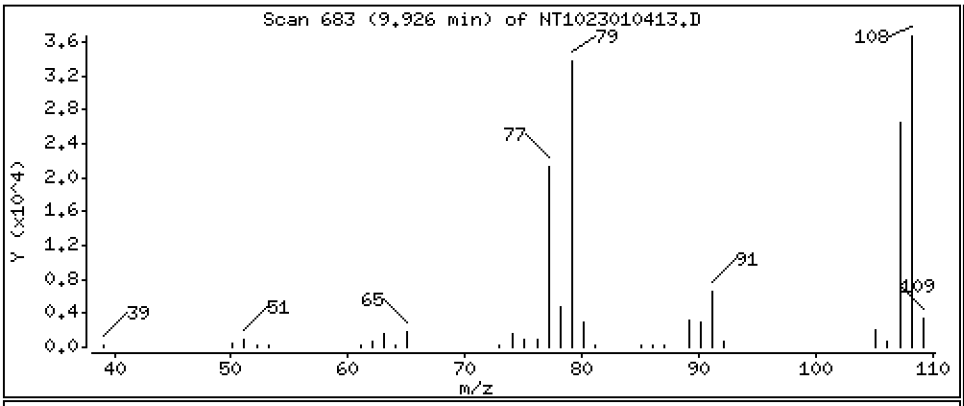
Operator: VTS

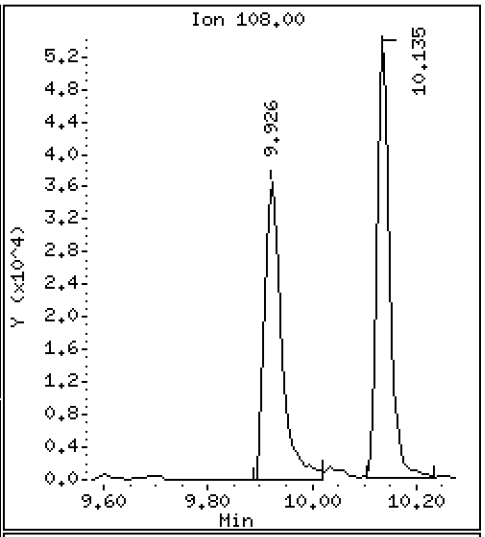
Column phase: ZB-5msi

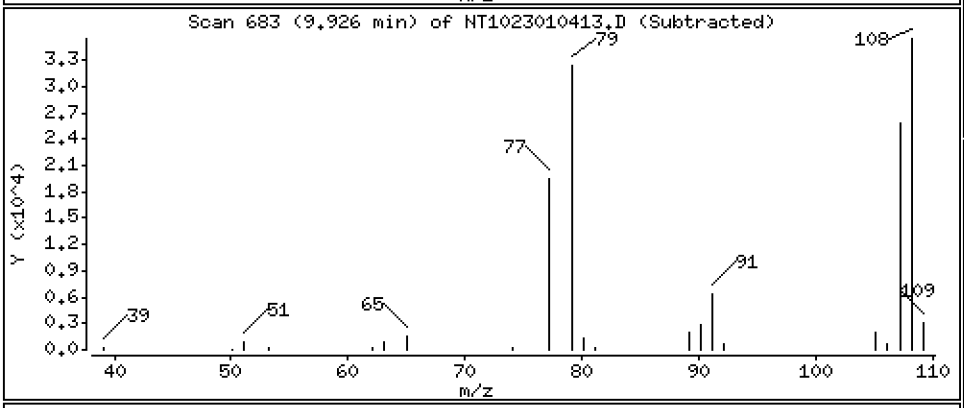
Column diameter: 0.25

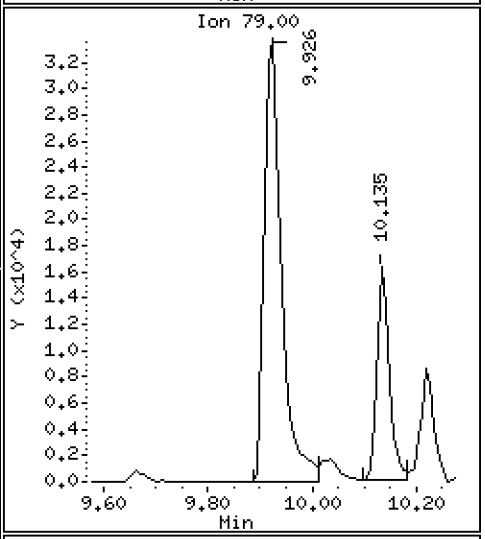
11 Benzyl alcohol

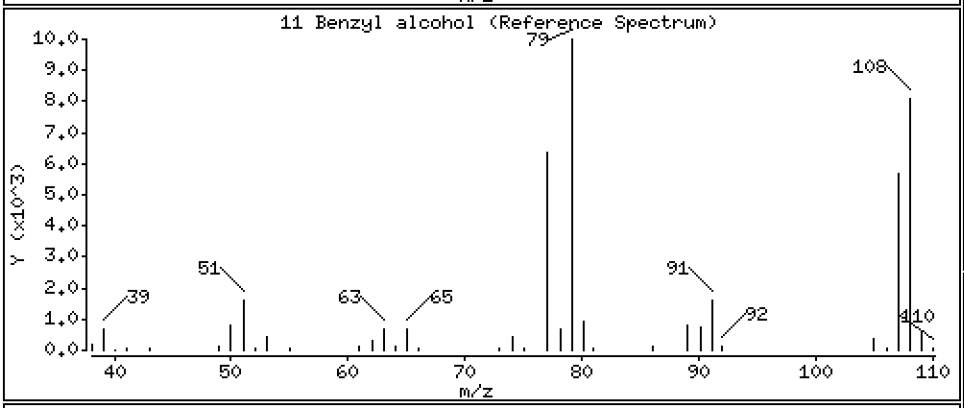
Concentration: 4.699 ug/mL

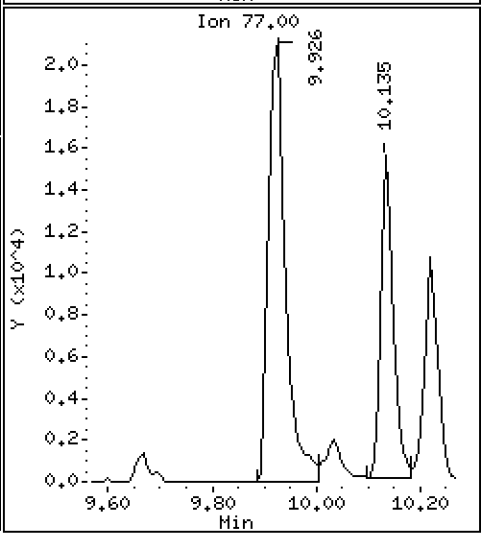


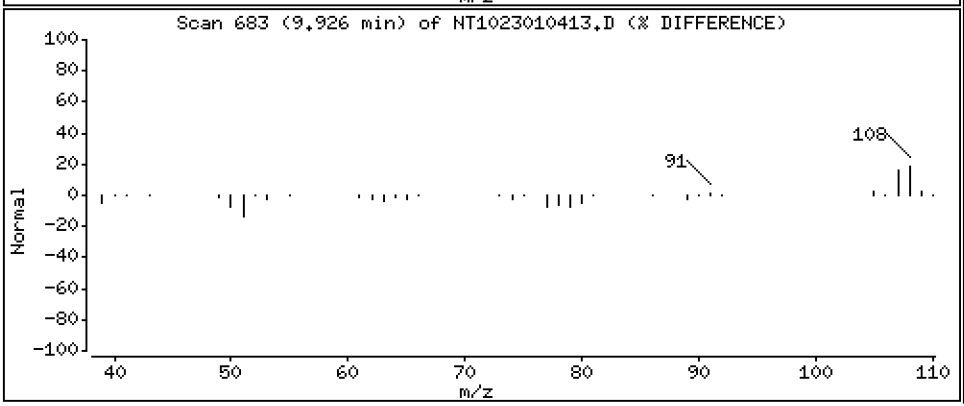












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

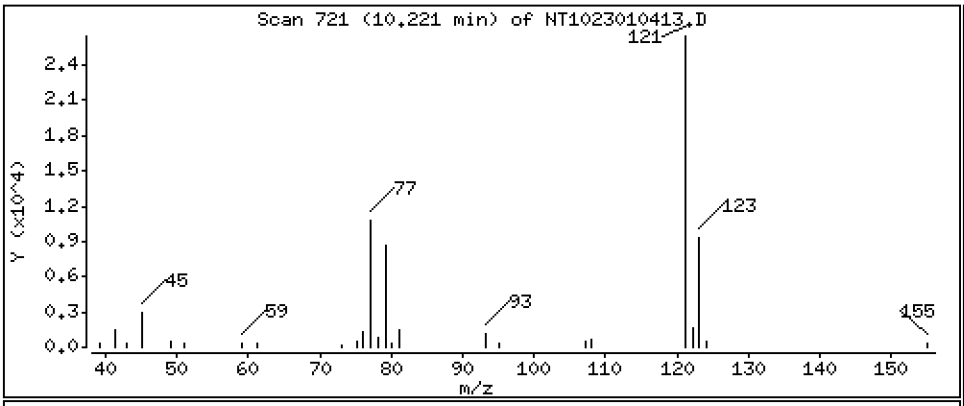
Operator: VTS

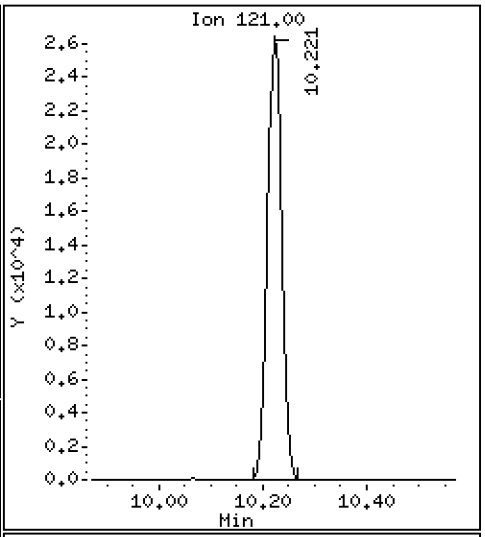
Column phase: ZB-5msi

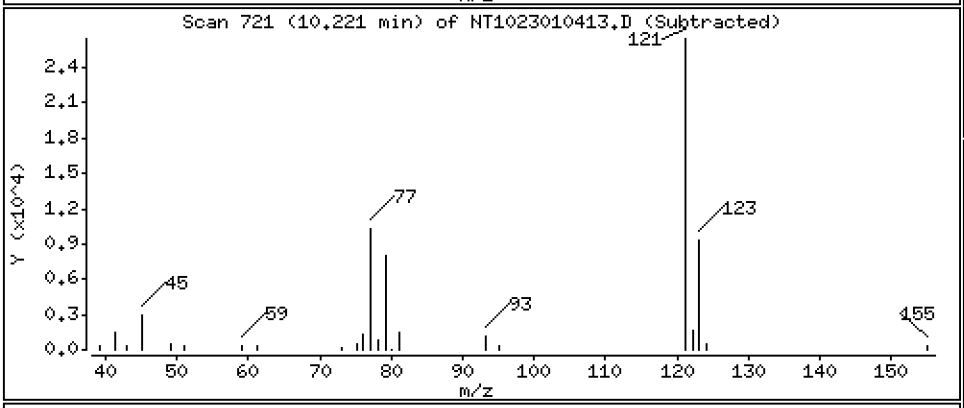
Column diameter: 0.25

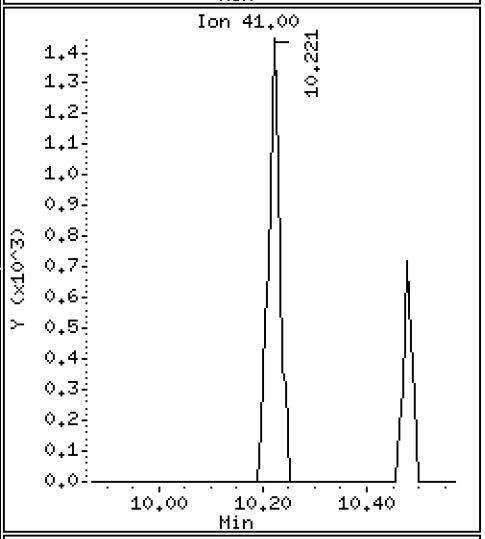
14 2,2'-oxybis(1-Chloropropane)

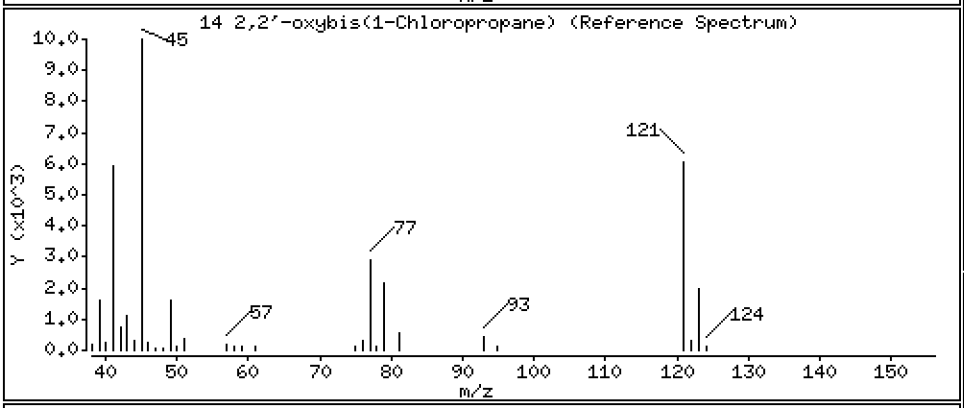
Concentration: 5.551 ug/mL

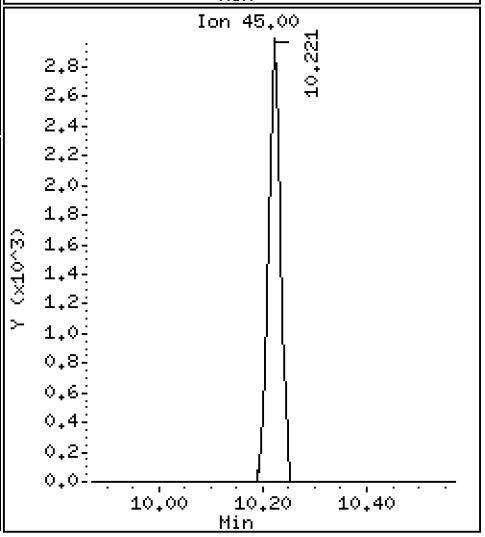


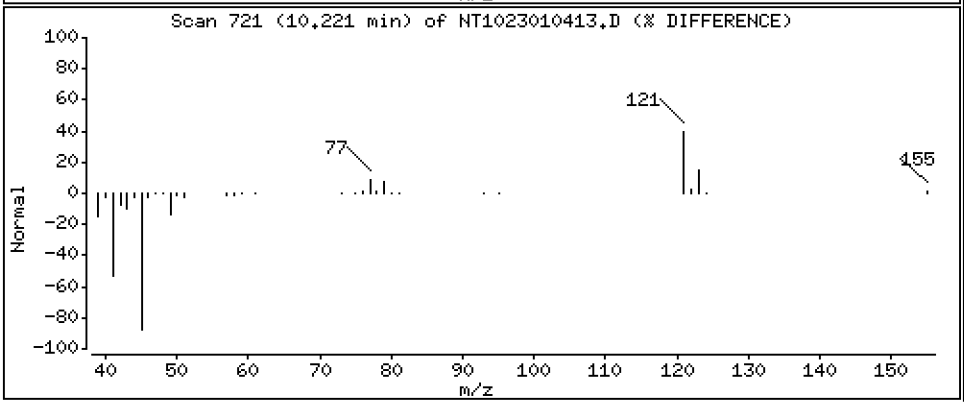












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

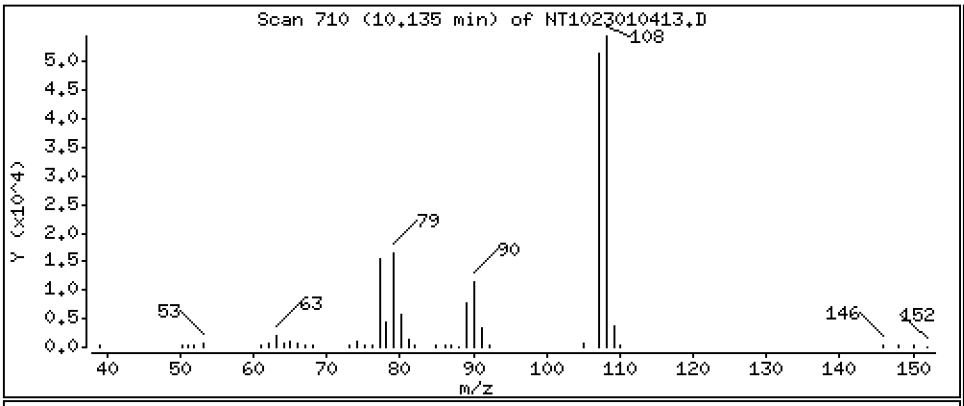
Operator: VTS

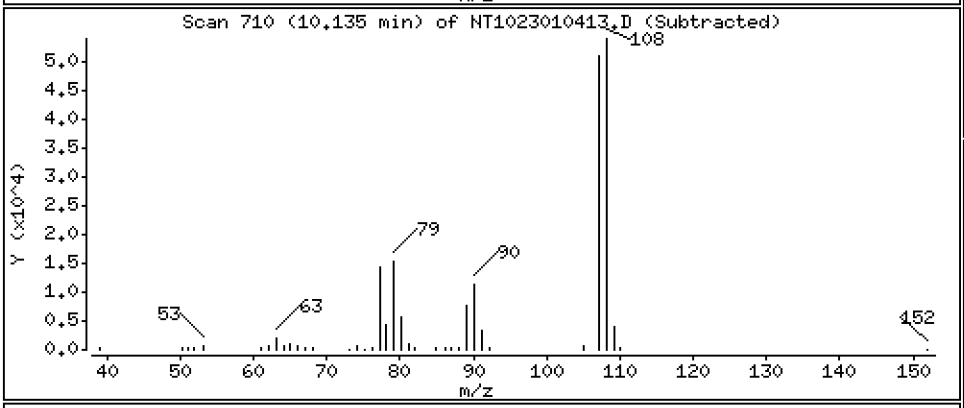
Column phase: ZB-5msi

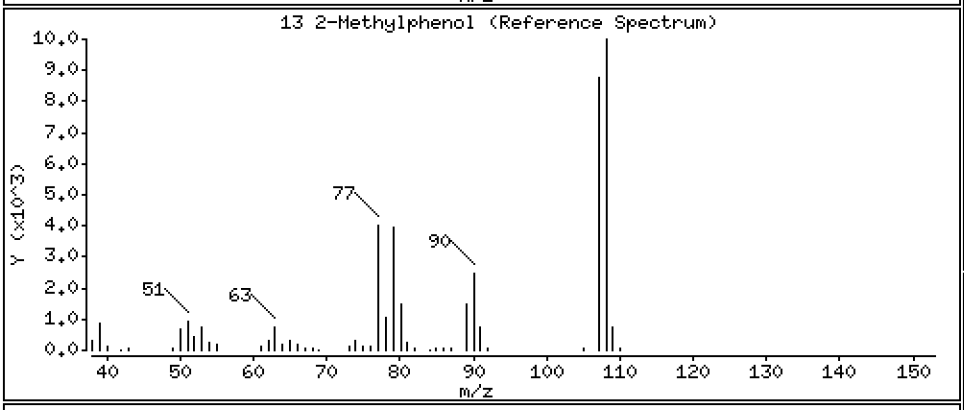
Column diameter: 0.25

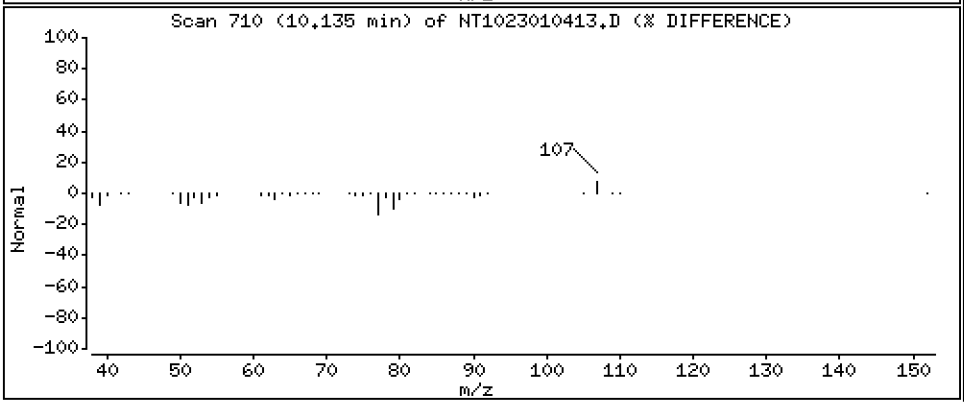
13 2-Methylphenol

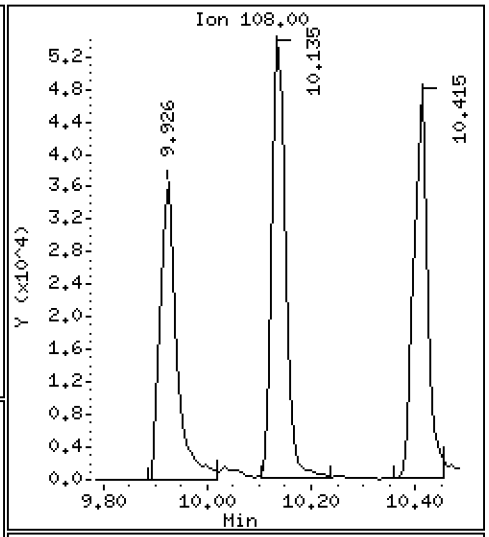
Concentration: 4.163 ug/mL

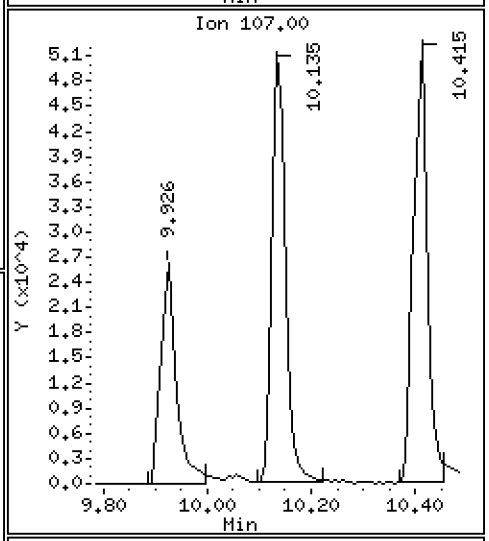


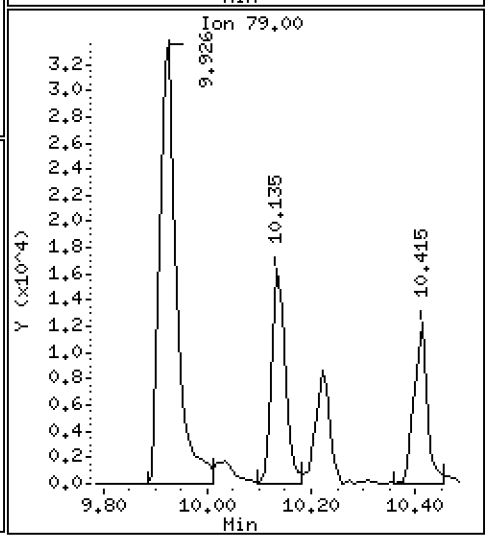












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

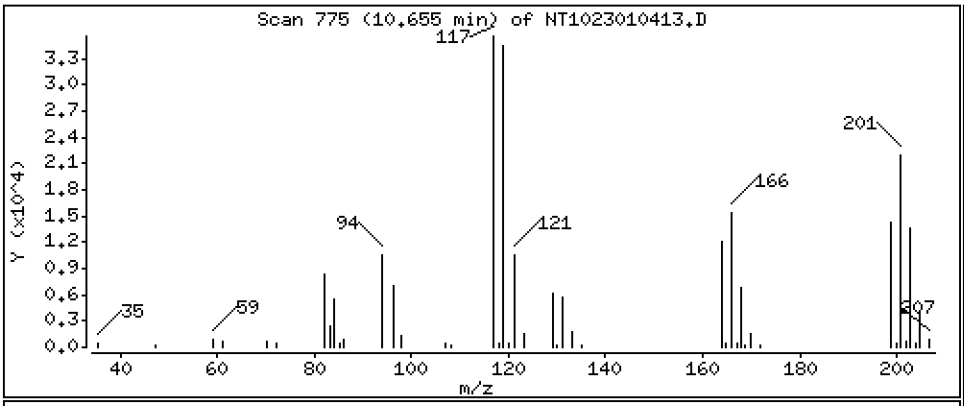
Operator: VTS

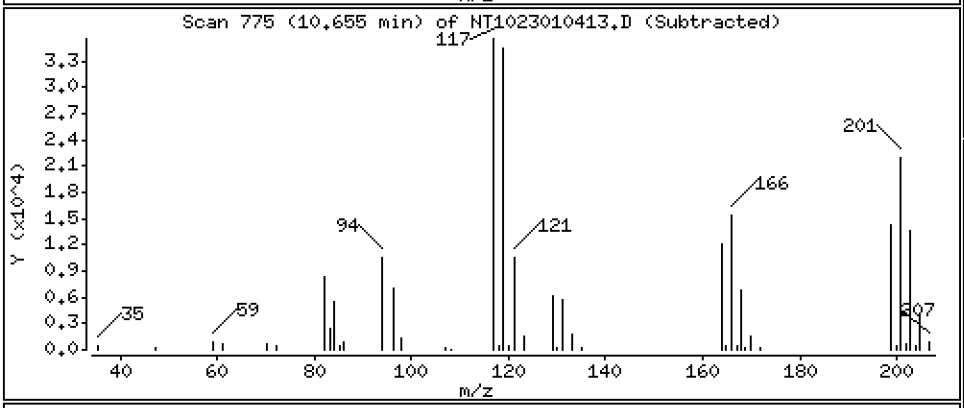
Column phase: ZB-5msi

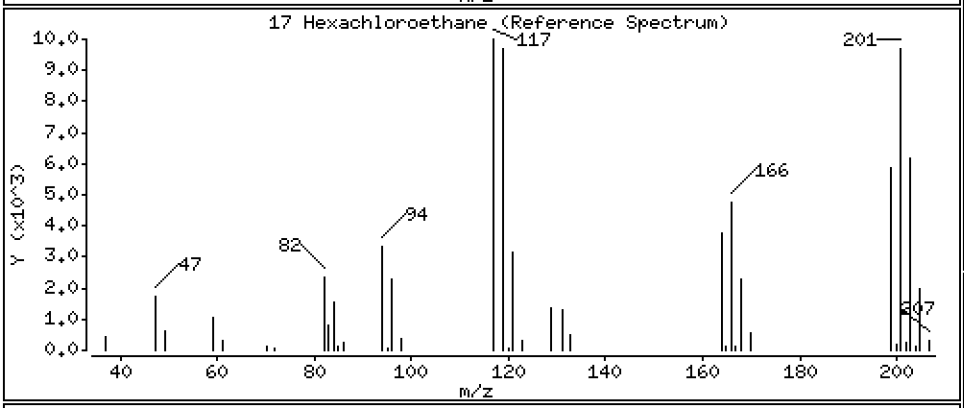
Column diameter: 0.25

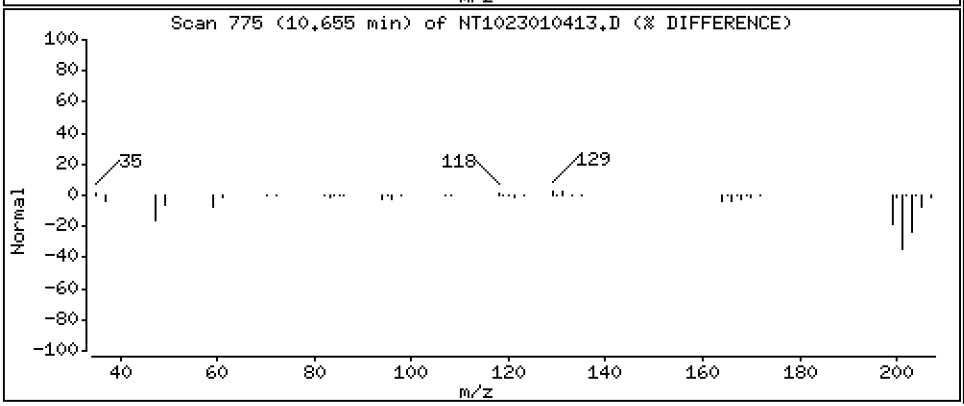
17 Hexachloroethane

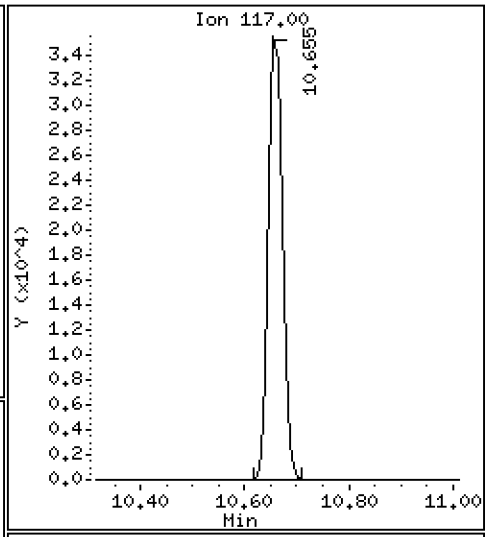
Concentration: 5.055 ug/mL

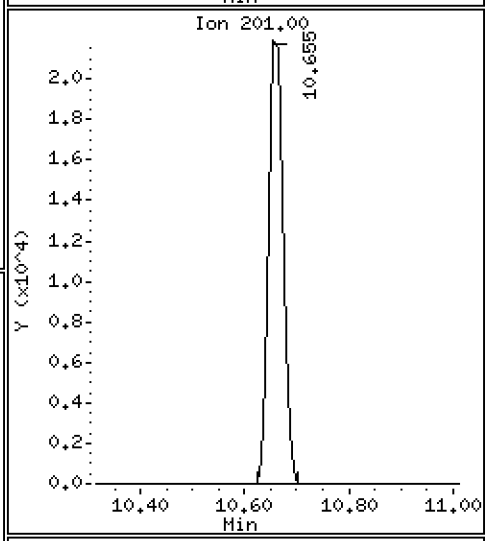


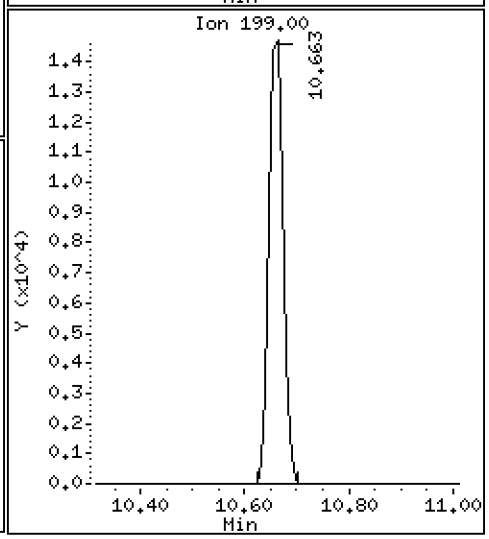












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

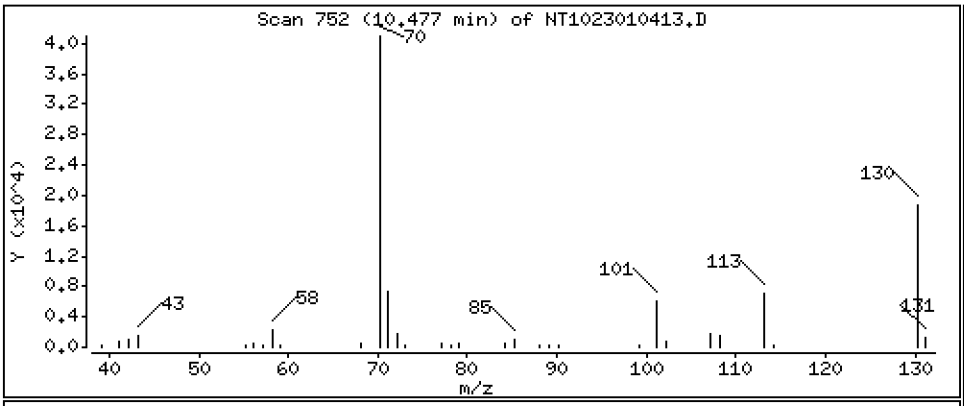
Operator: VTS

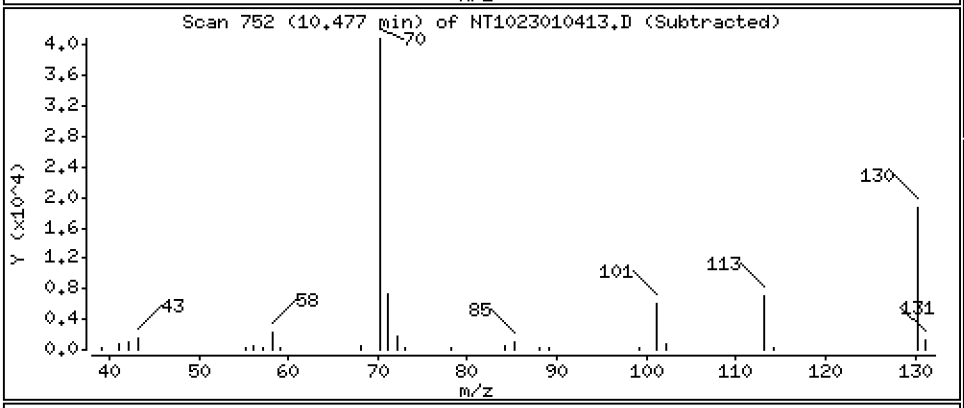
Column phase: ZB-5msi

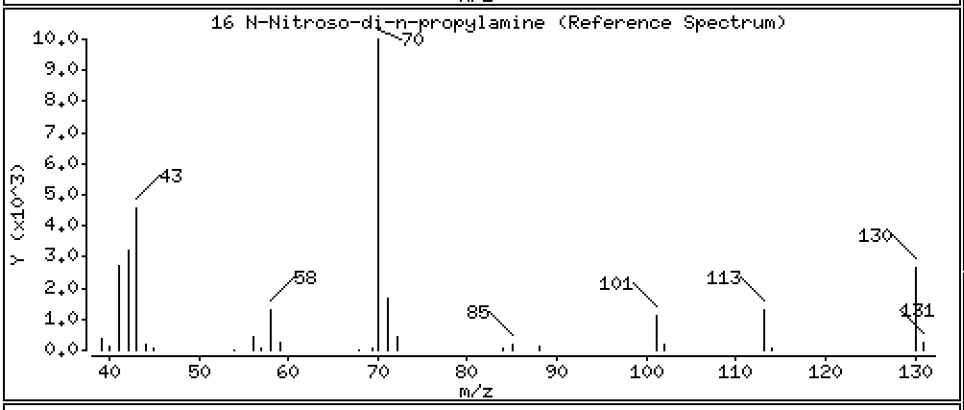
Column diameter: 0.25

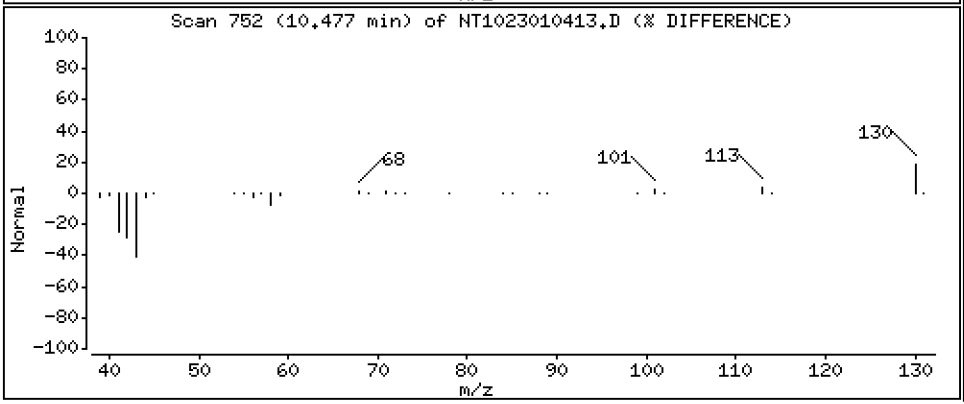
16 N-Nitroso-di-n-propylamine

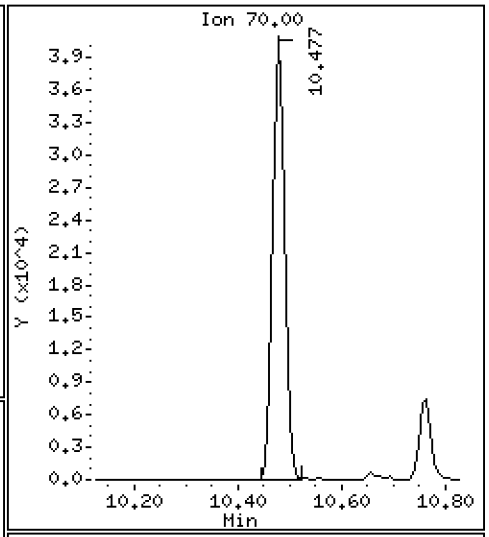
Concentration: 5.181 ug/mL

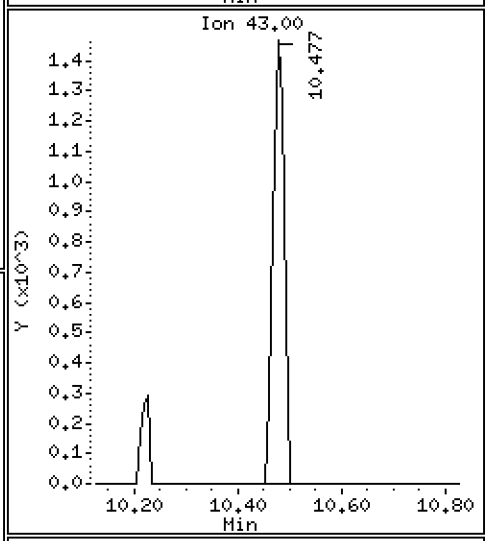


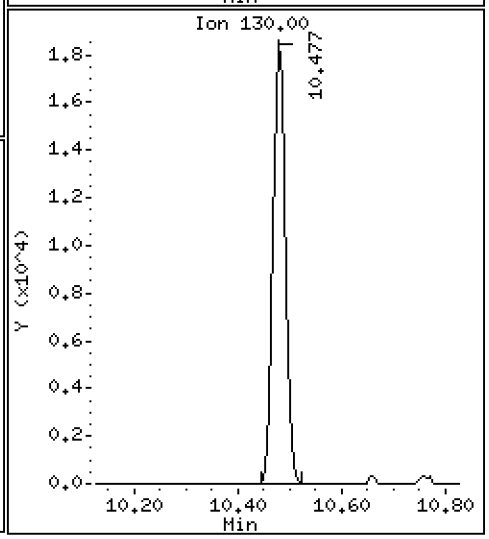












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

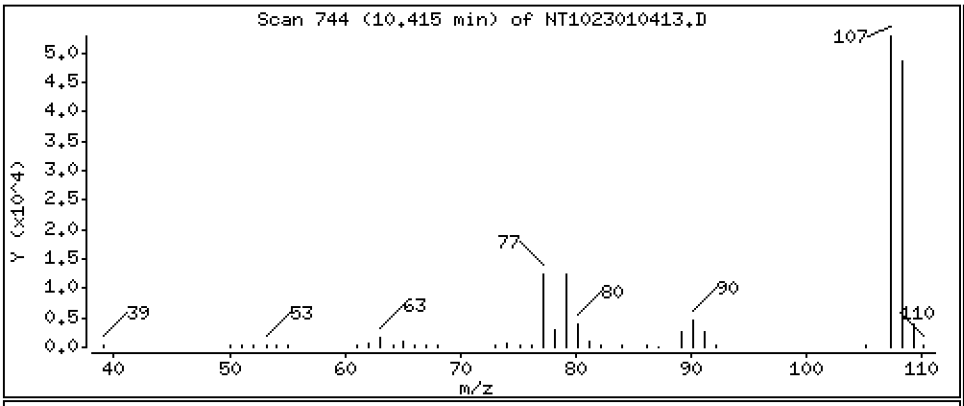
Operator: VTS

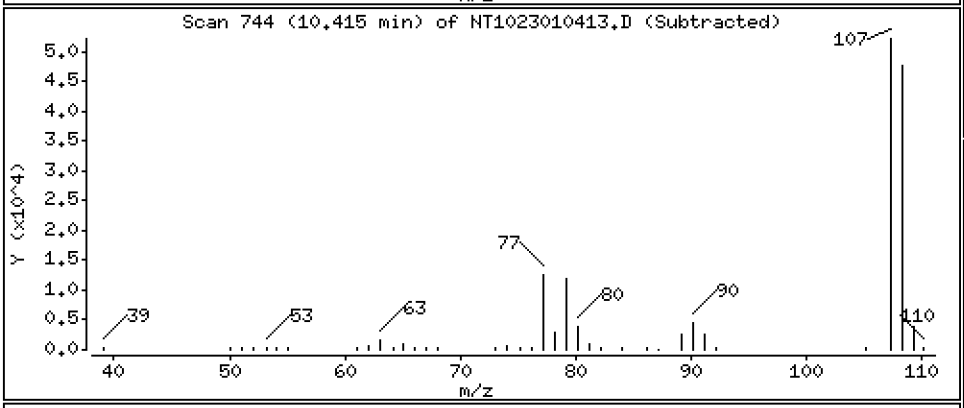
Column phase: ZB-5msi

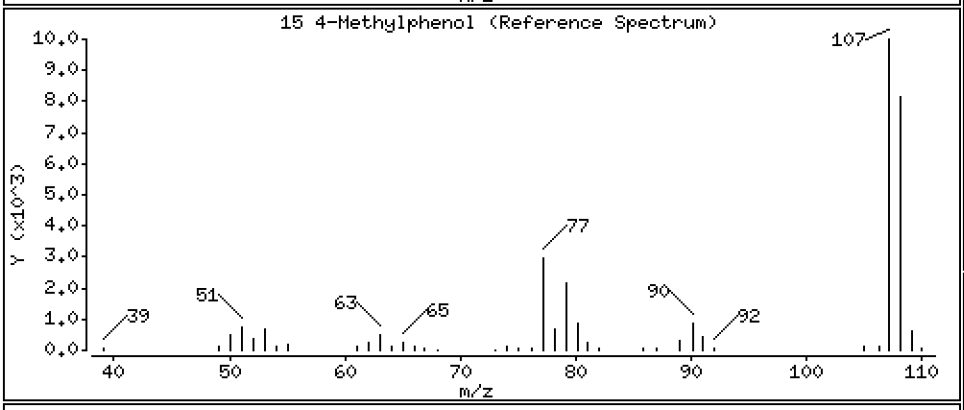
Column diameter: 0.25

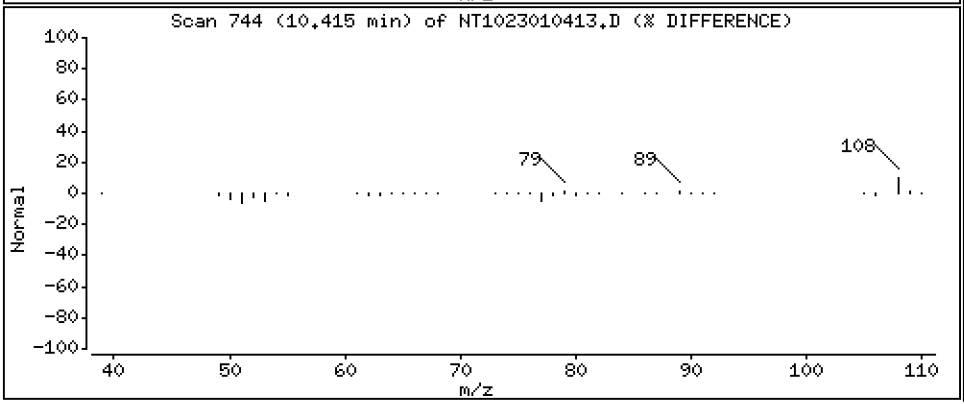
15 4-Methylphenol

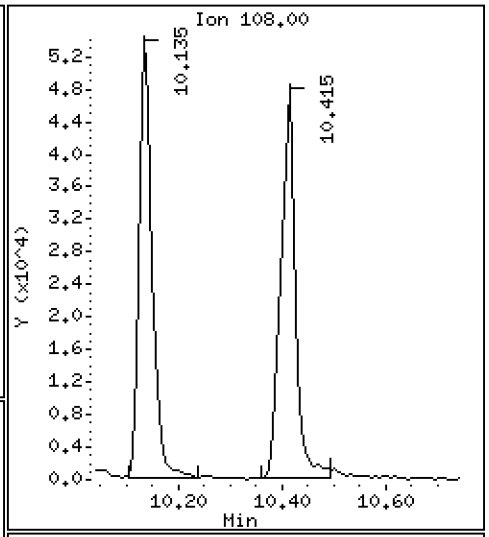
Concentration: 4.573 ug/mL

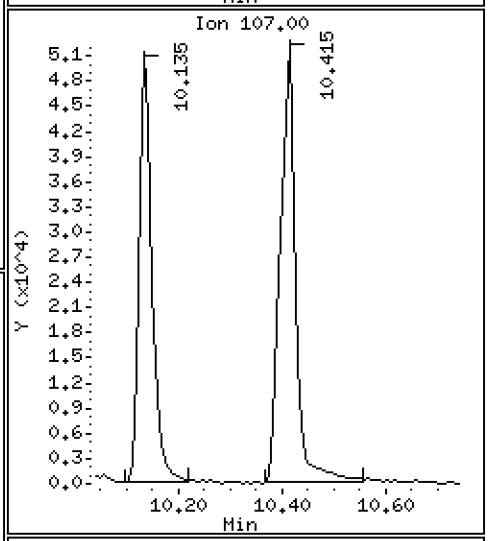


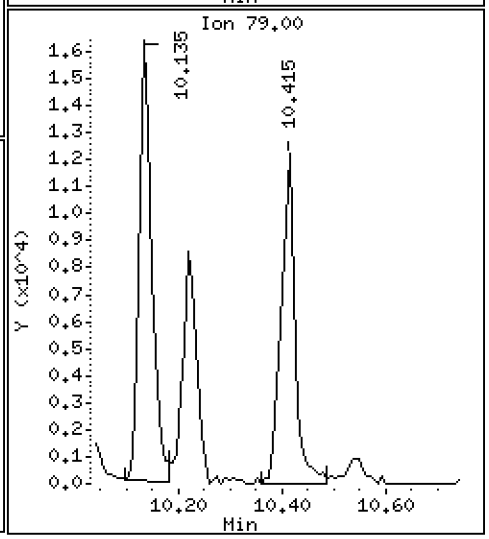












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

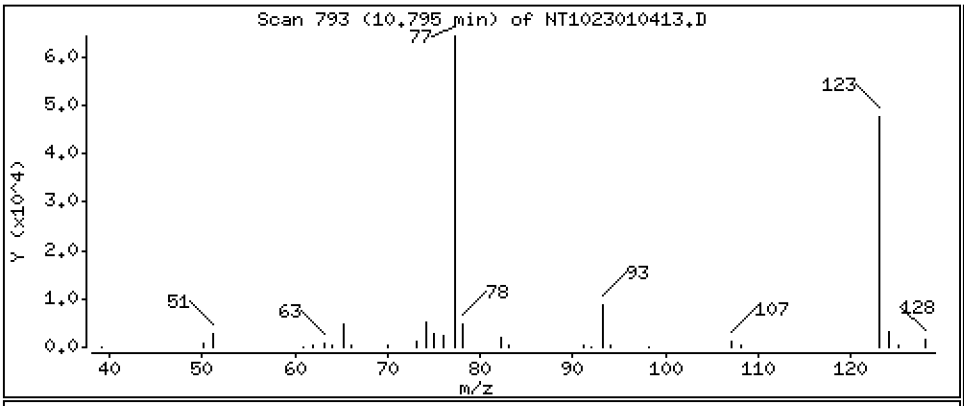
Operator: VTS

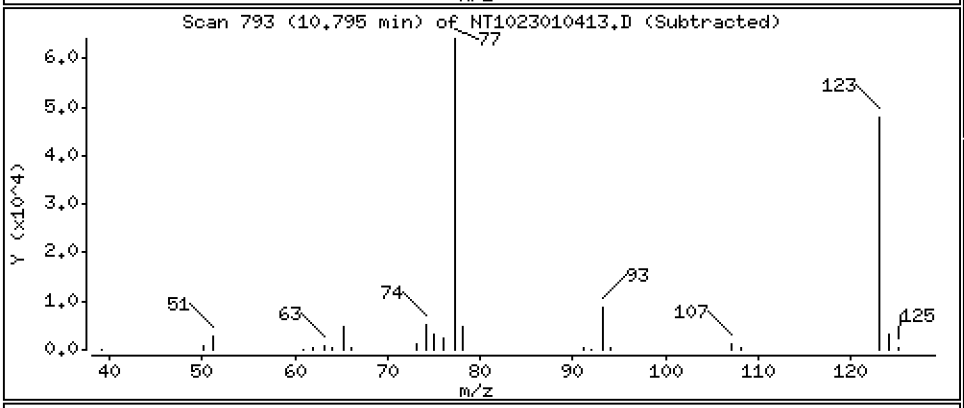
Column phase: ZB-5msi

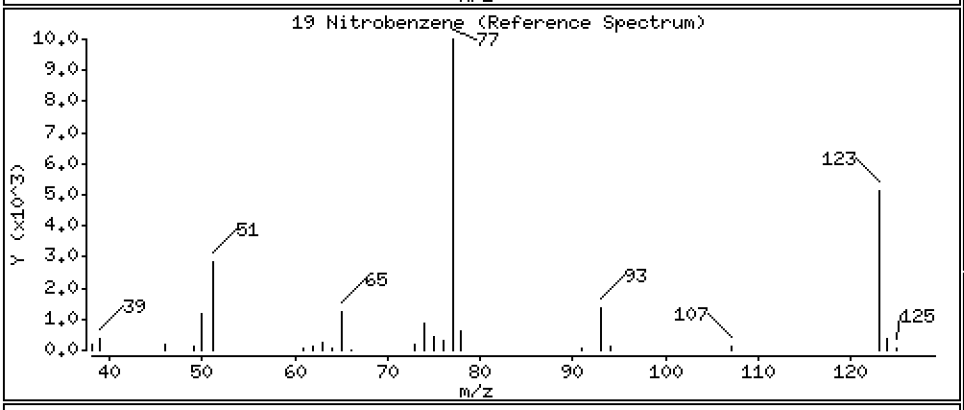
Column diameter: 0.25

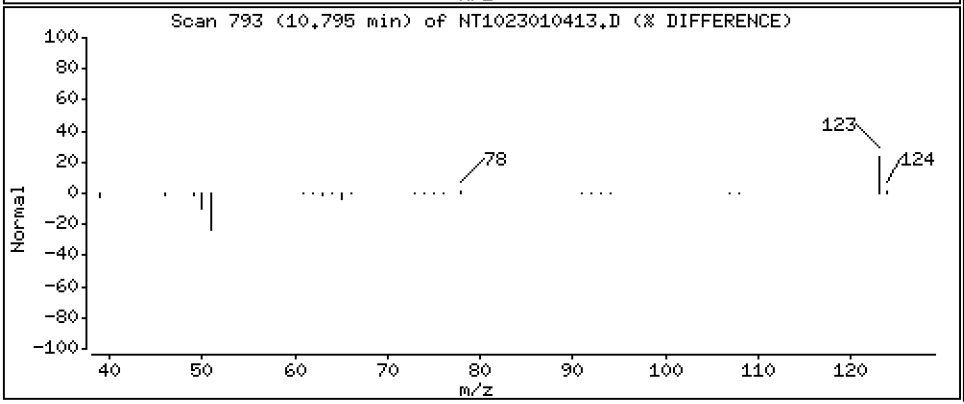
19 Nitrobenzene

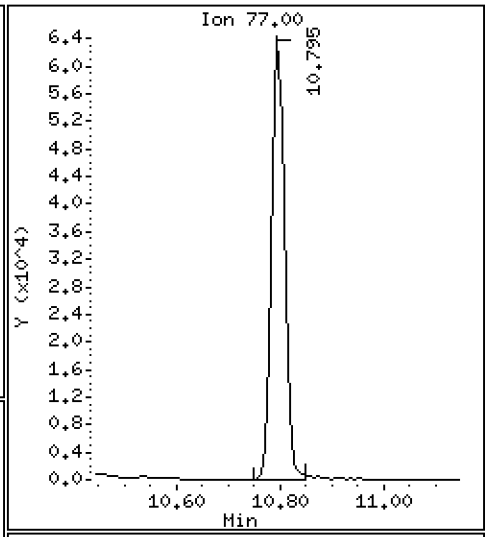
Concentration: 4.932 ug/mL

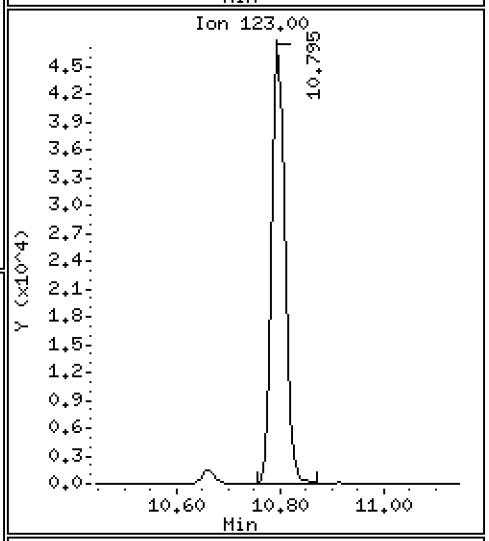


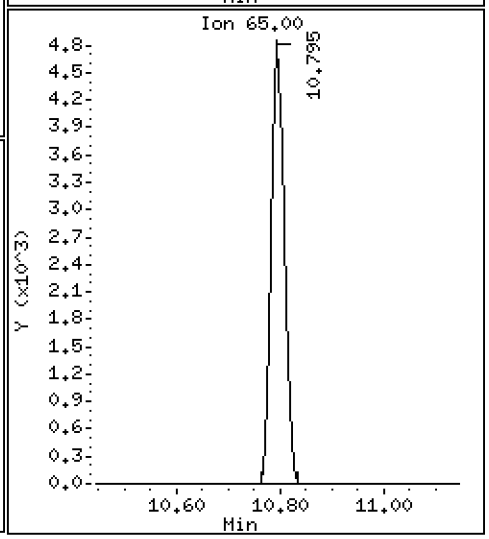












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

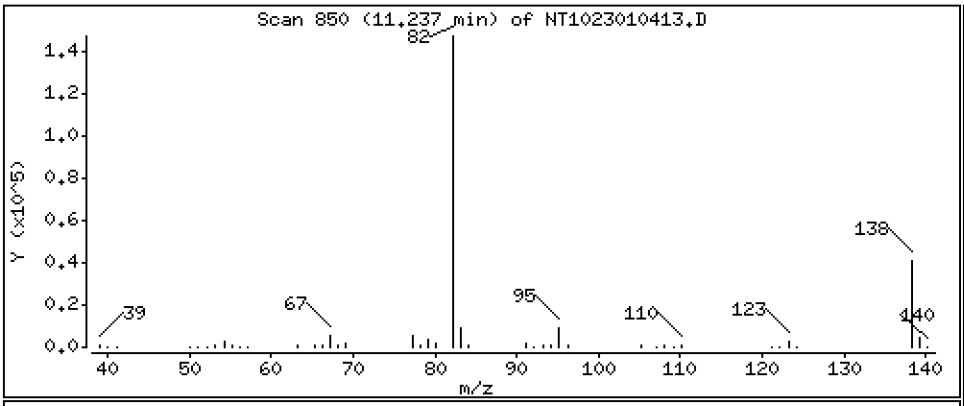
Operator: VTS

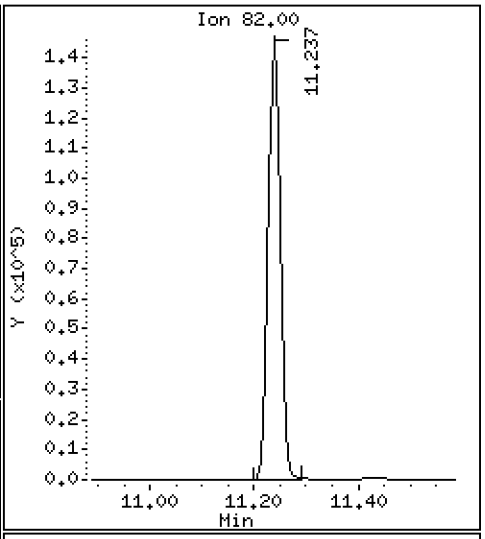
Column phase: ZB-5msi

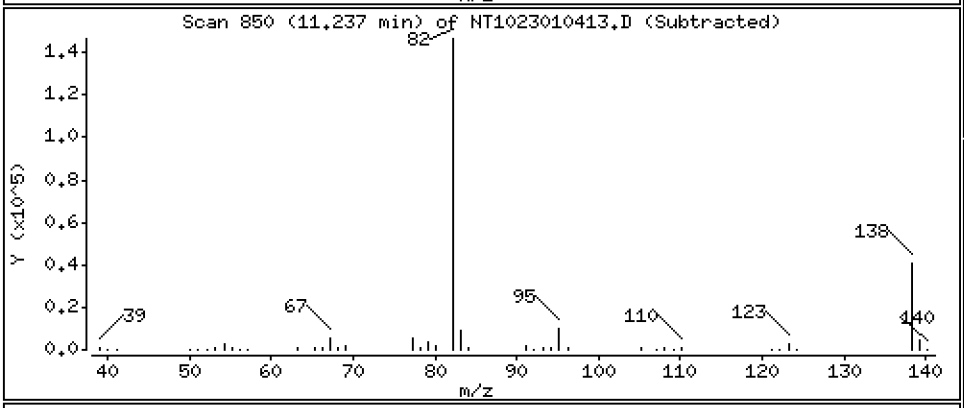
Column diameter: 0.25

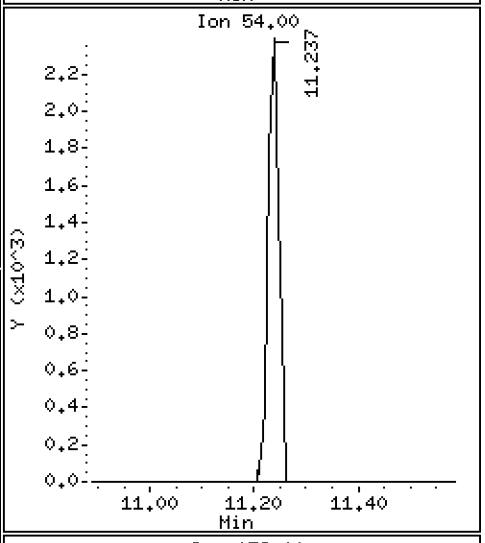
20 Isophorone

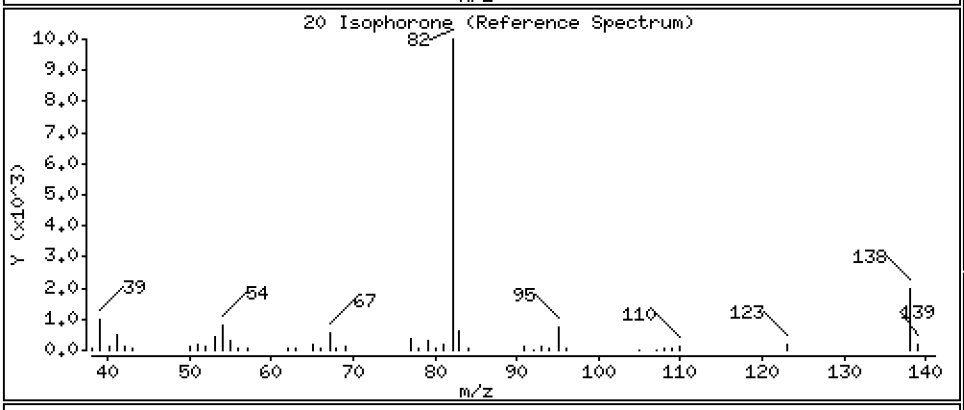
Concentration: 6.640 ug/mL

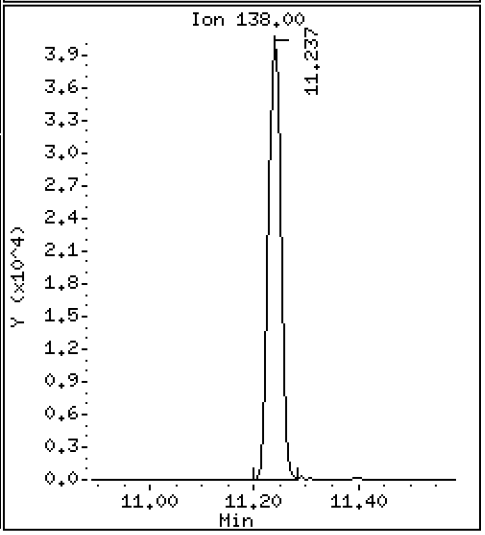


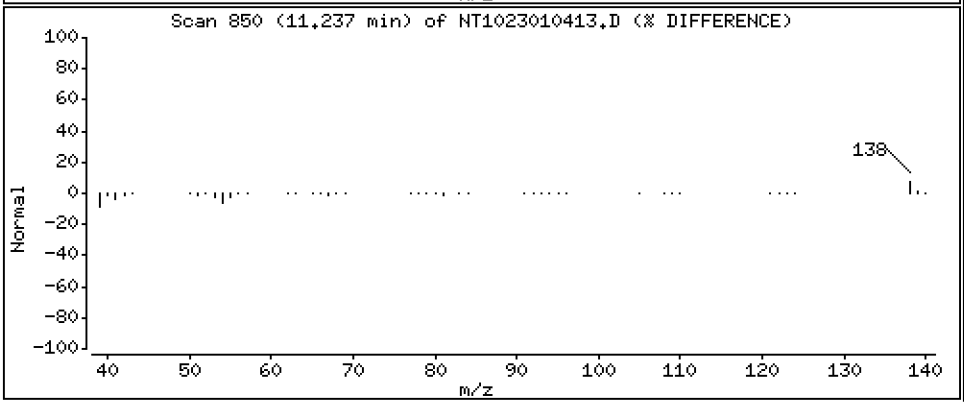












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

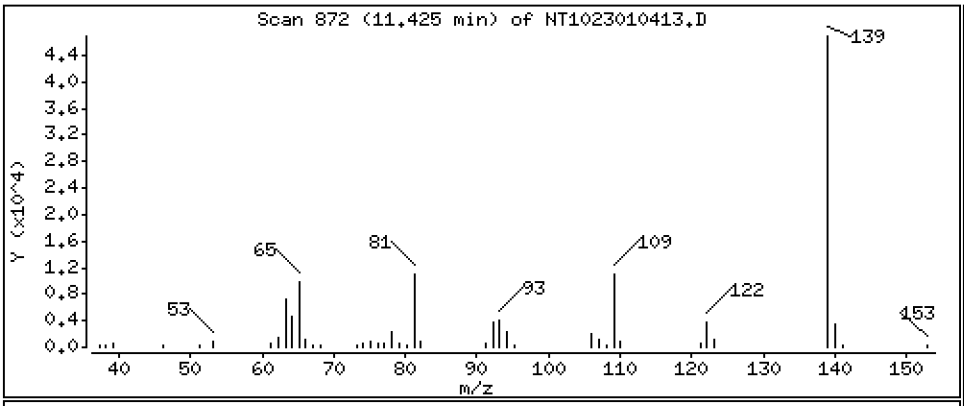
Operator: VTS

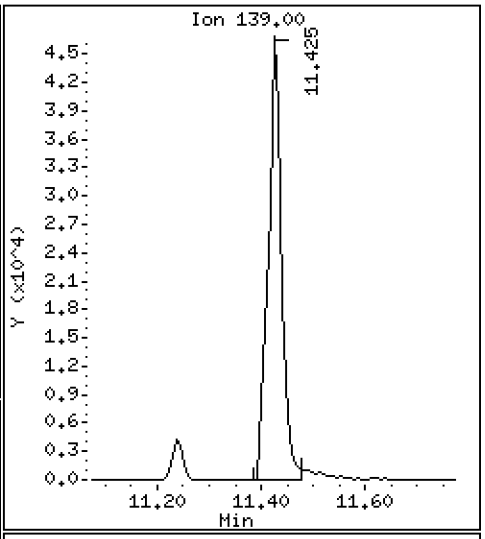
Column phase: ZB-5msi

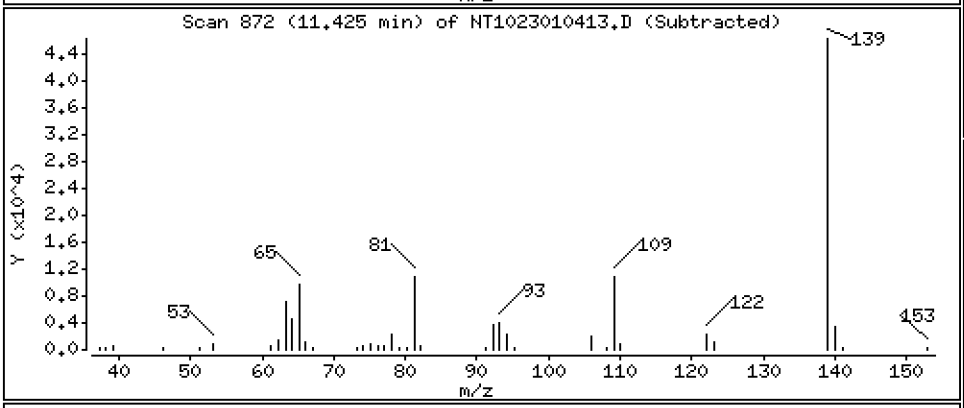
Column diameter: 0.25

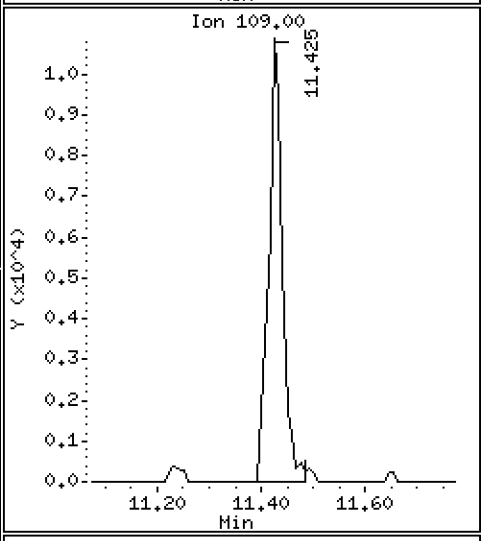
21 2-Nitrophenol

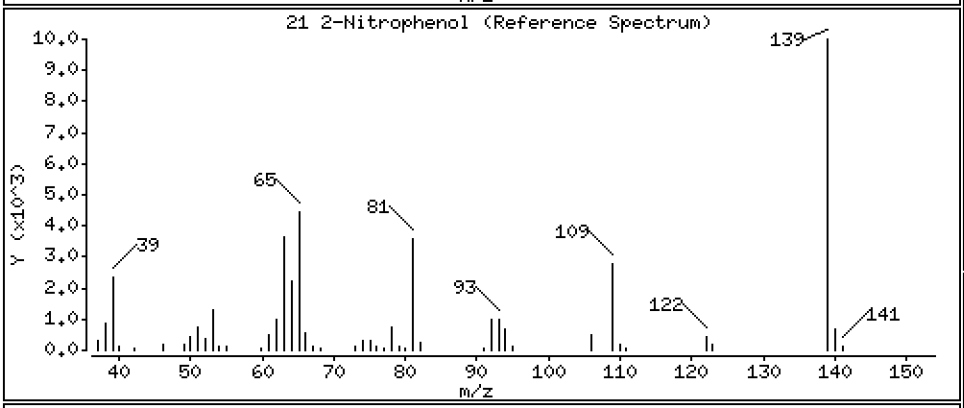
Concentration: 4.479 ug/mL

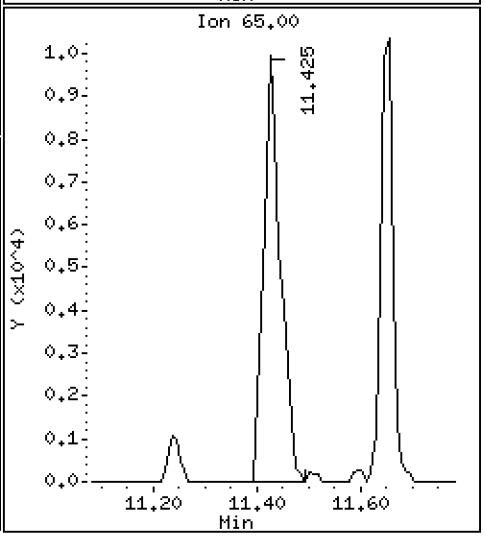


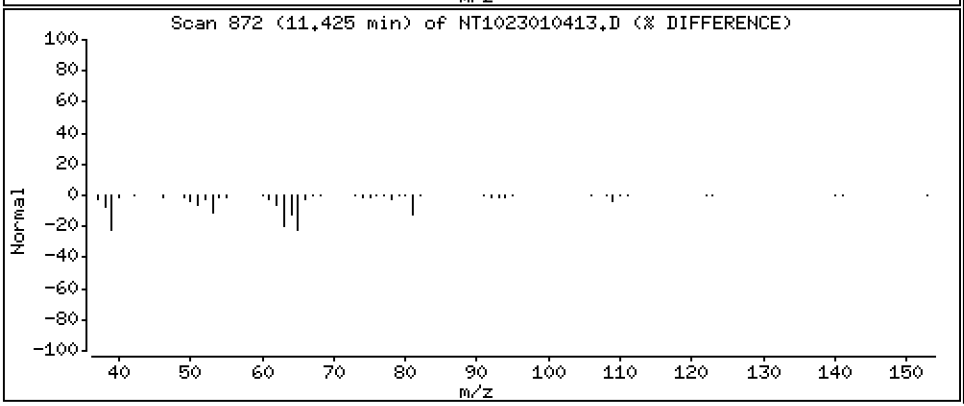












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

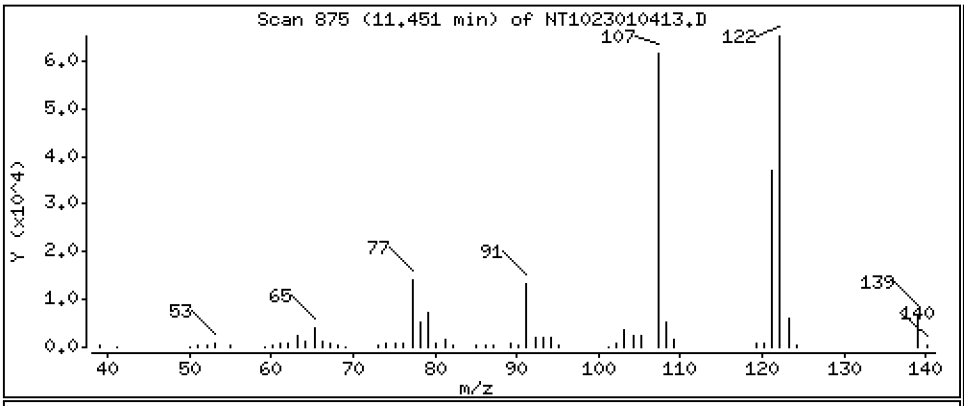
Operator: VTS

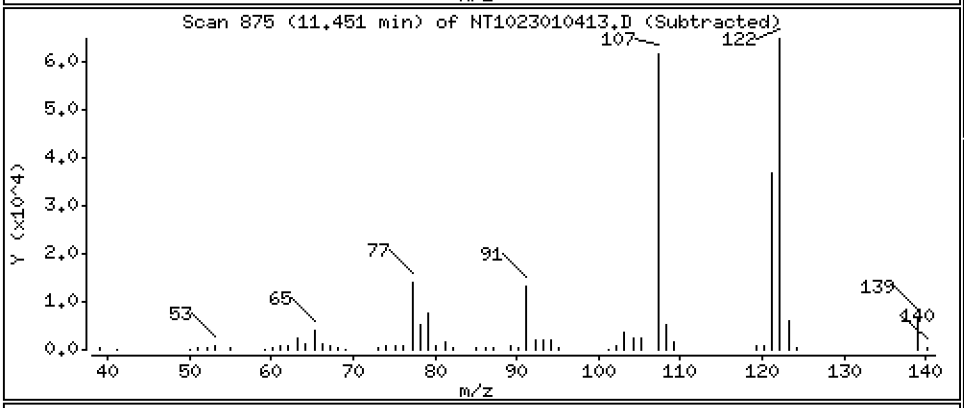
Column phase: ZB-5msi

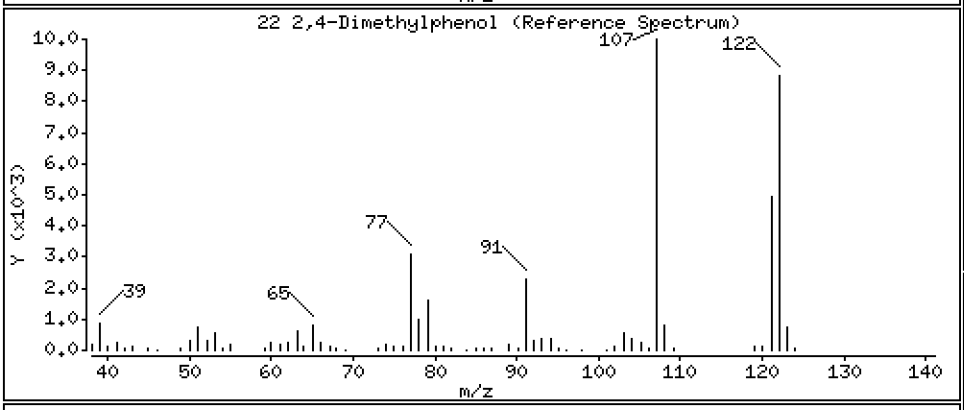
Column diameter: 0.25

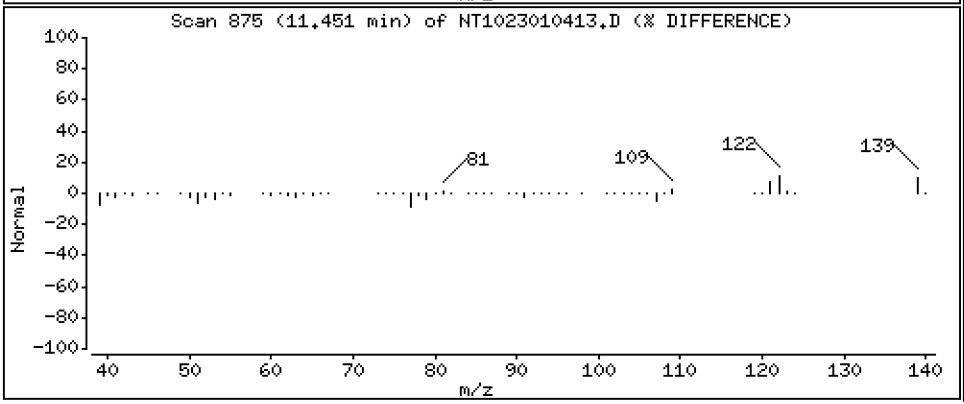
22 2,4-Dimethylphenol

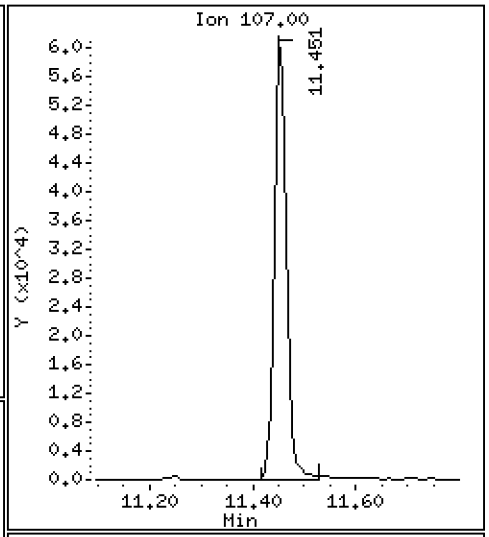
Concentration: 3.770 ug/mL

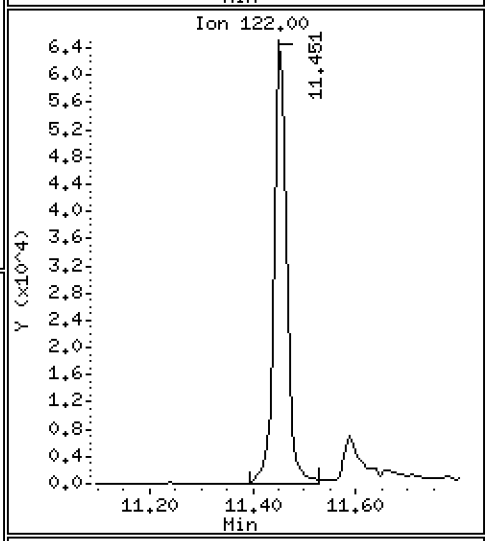


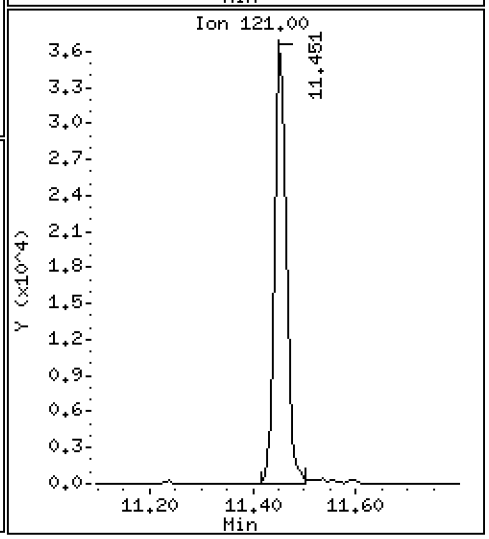












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

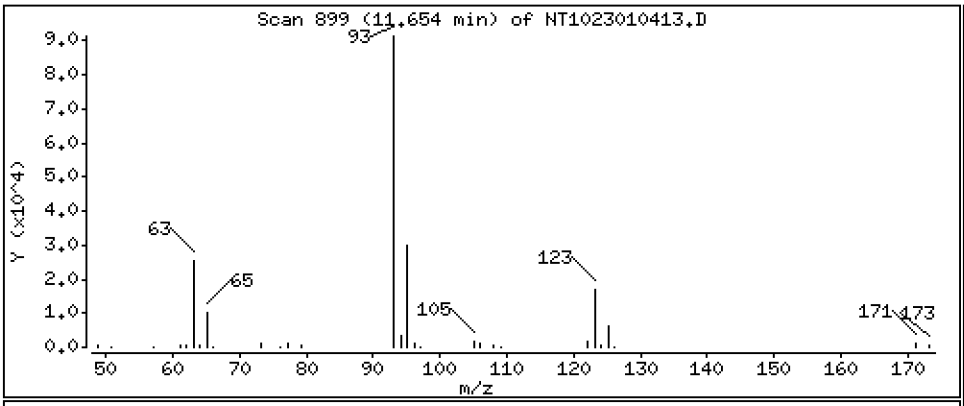
Operator: VTS

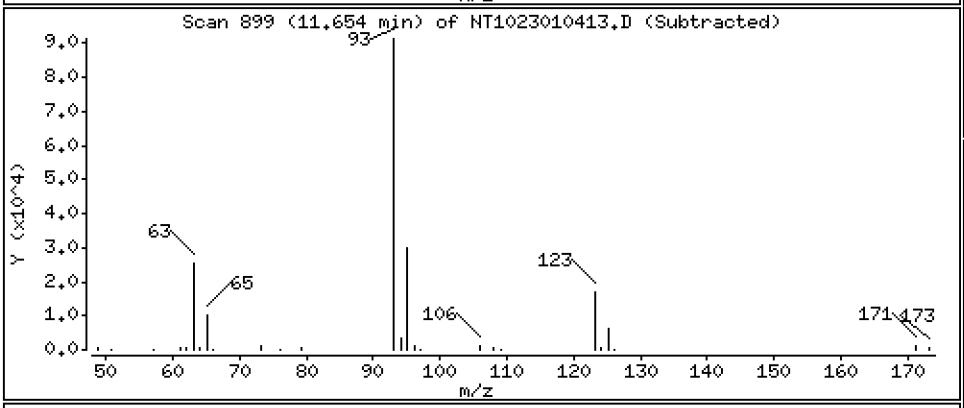
Column phase: ZB-5msi

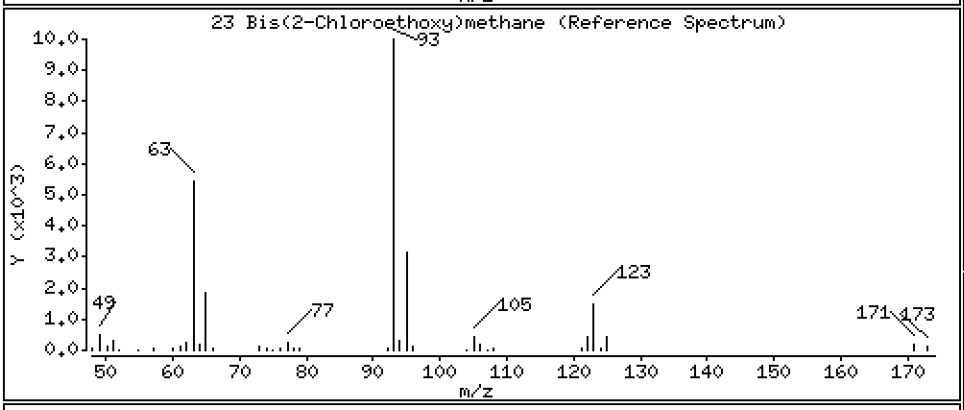
Column diameter: 0.25

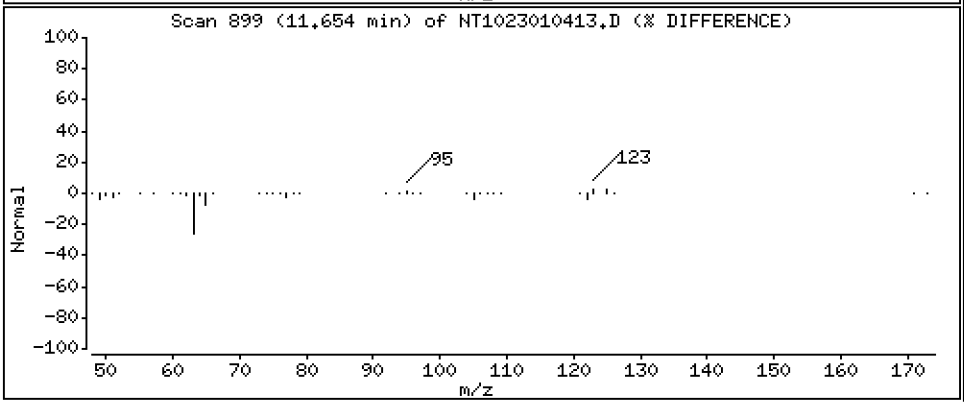
23 Bis(2-Chloroethoxy)methane

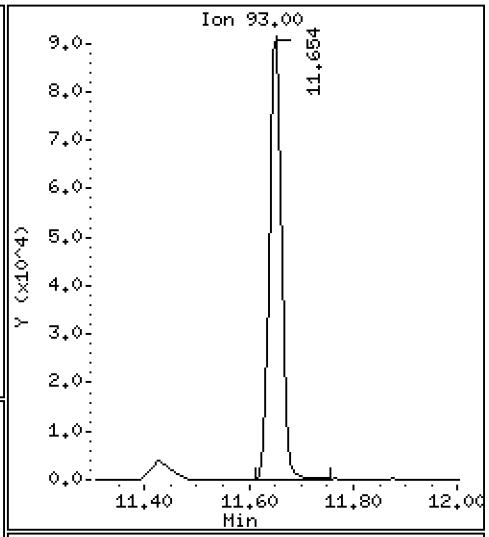
Concentration: 6.332 ug/mL

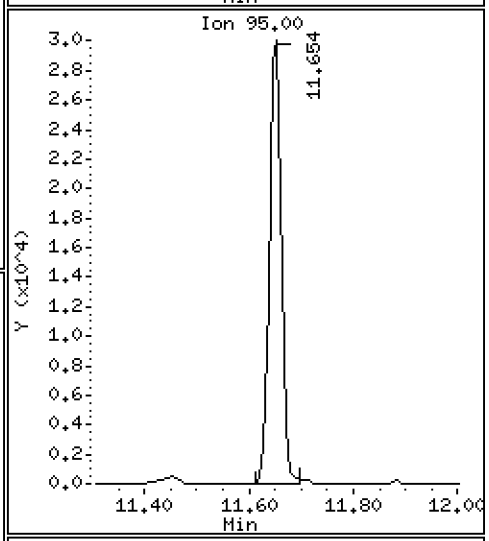


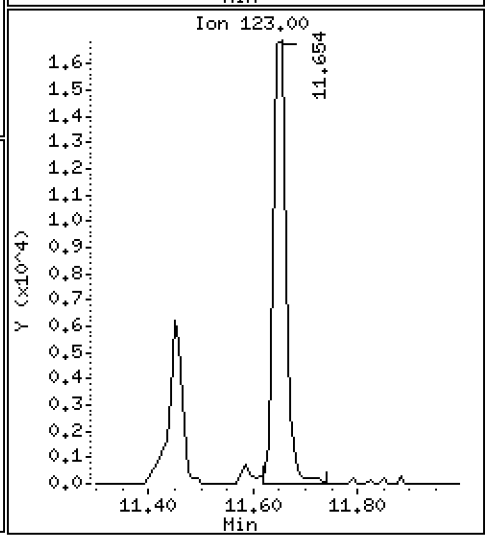












Date : 04-JAN-2023 16:58

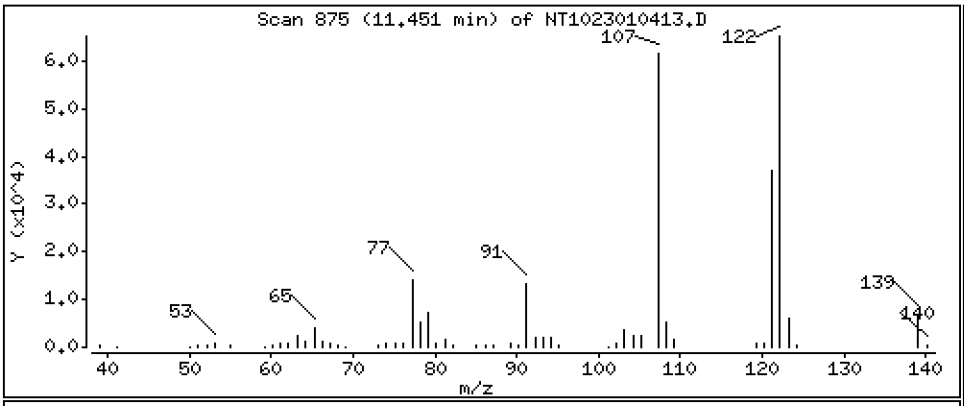
Client ID: Instrument: nt10.i

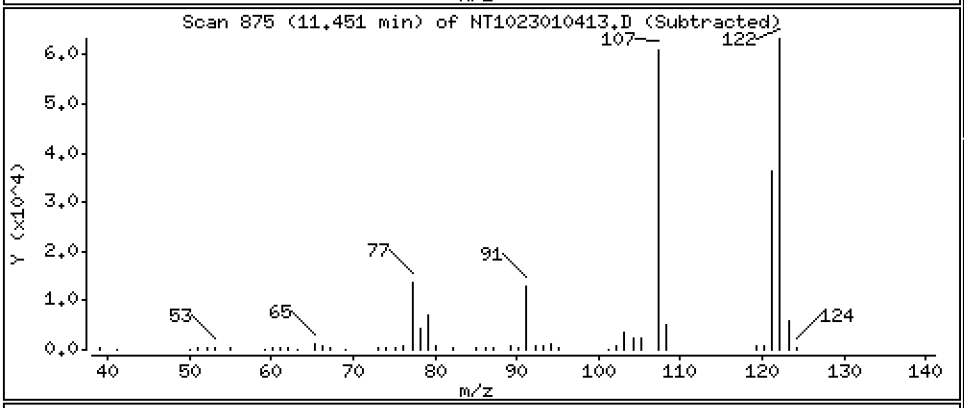
Sample Info: SLA0012-SCV1

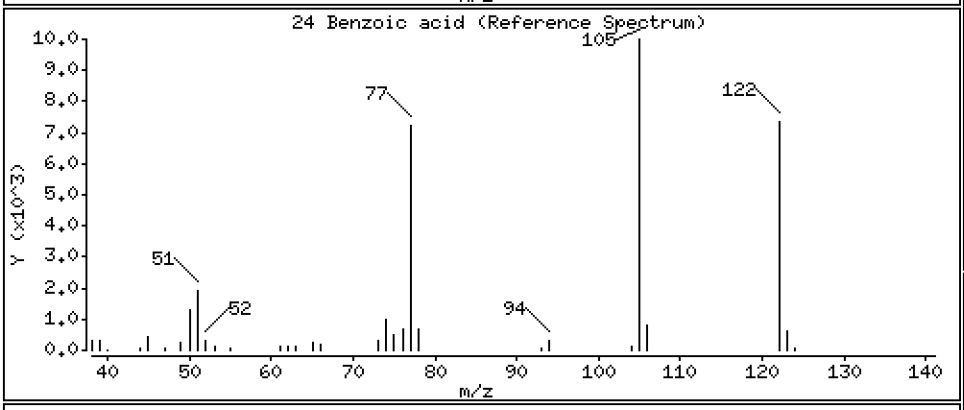
Operator: VTS

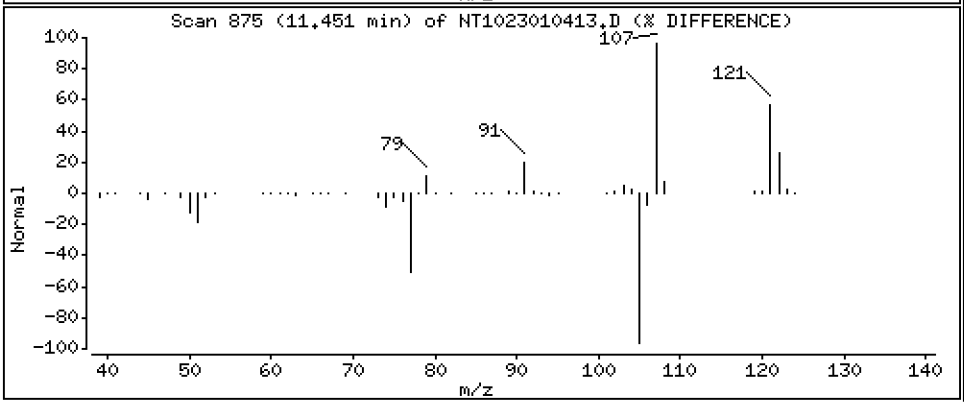
Column phase: ZB-5msi Column diameter: 0.25

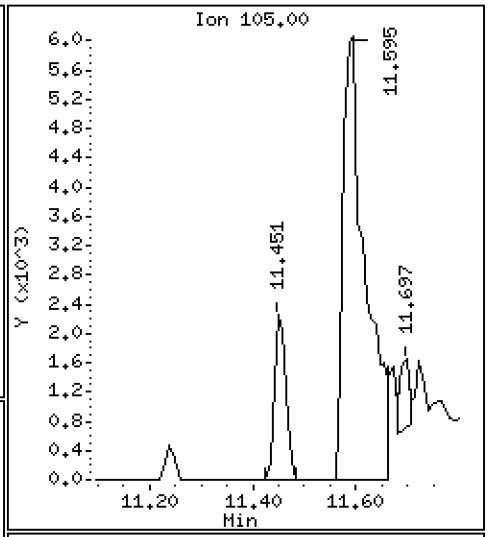
24 Benzoic acid Concentration: 0.3166 ug/mL

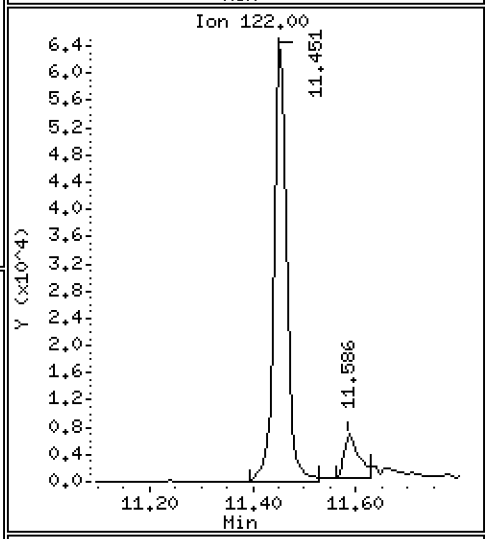


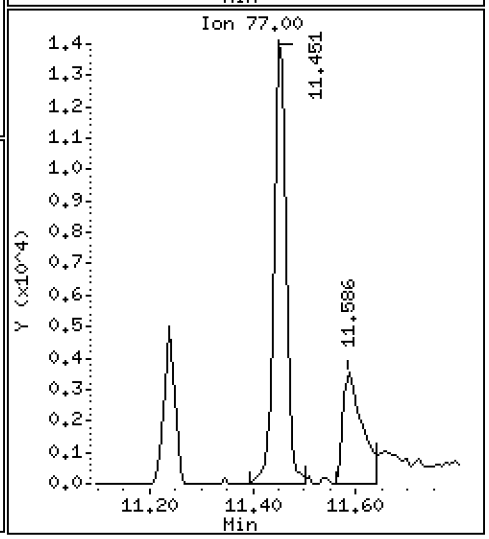












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

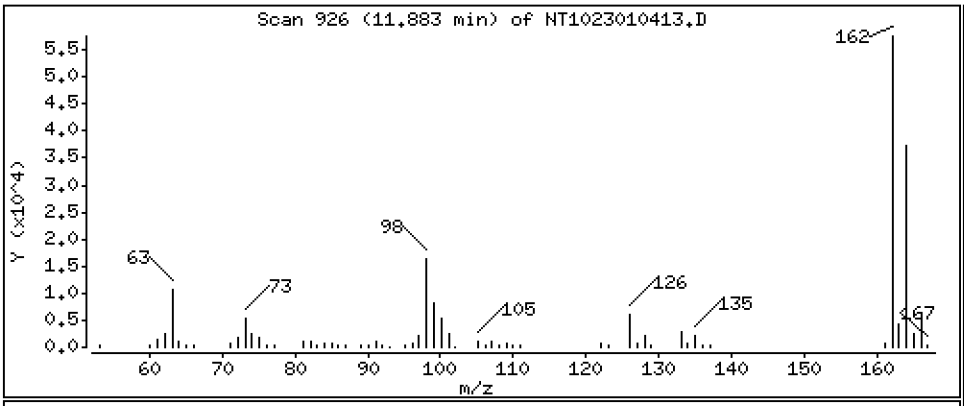
Operator: VTS

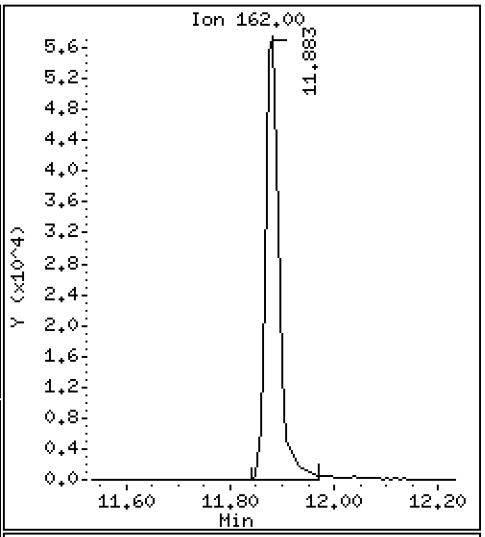
Column phase: ZB-5msi

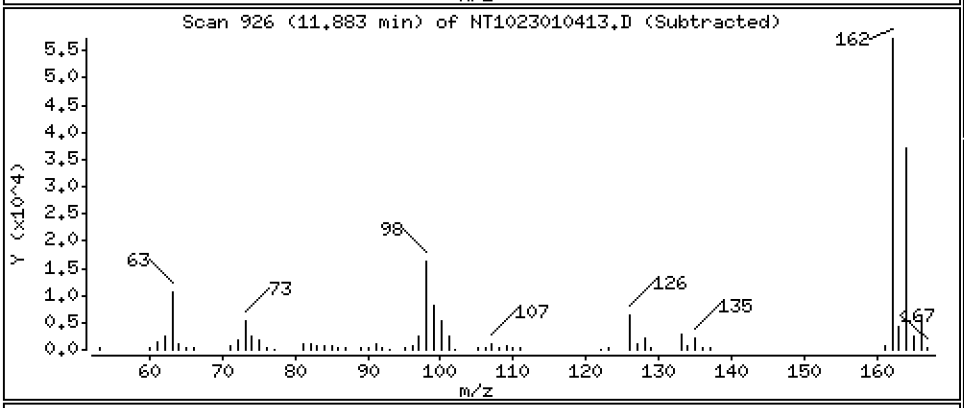
Column diameter: 0.25

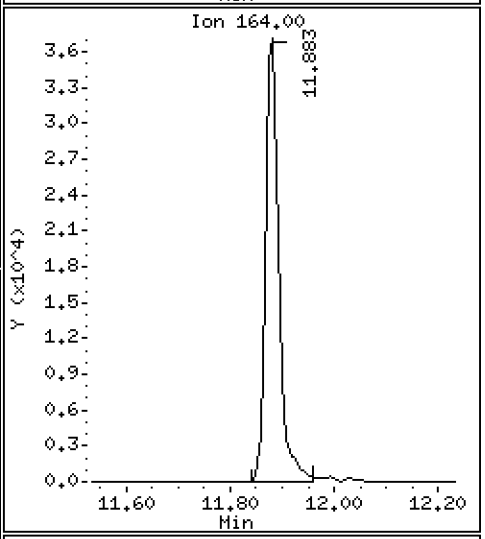
25 2,4-Dichlorophenol

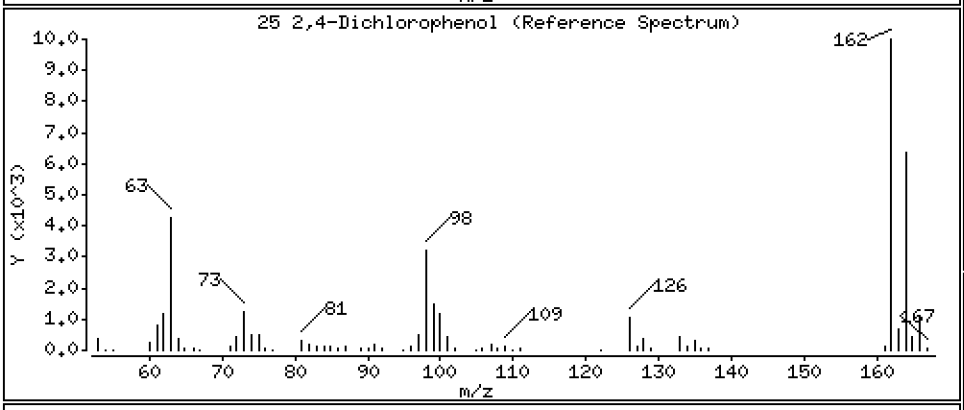
Concentration: 5.098 ug/mL

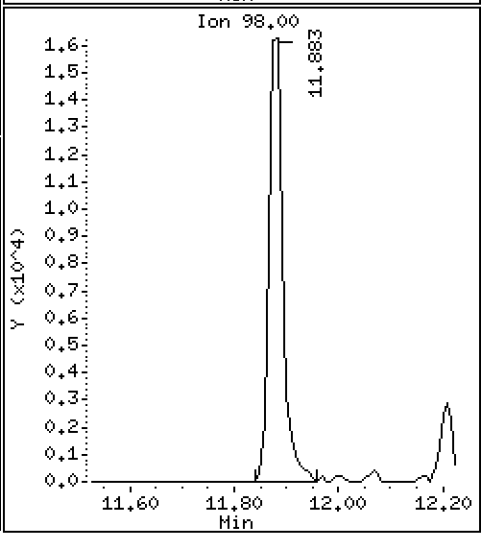


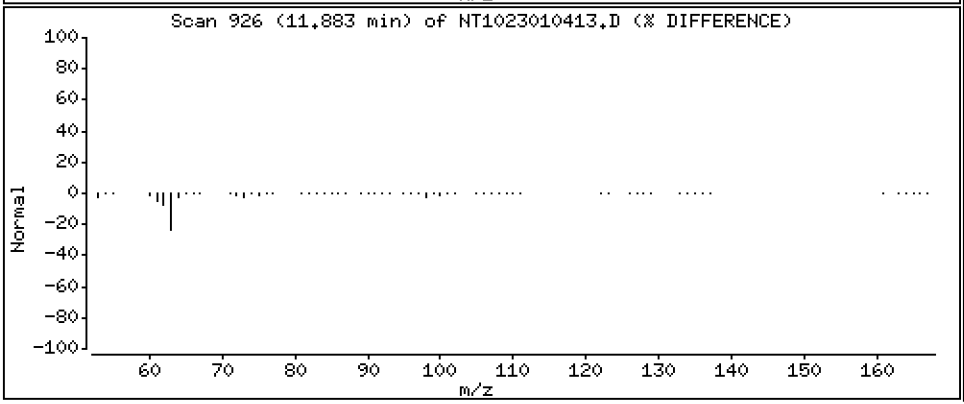












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

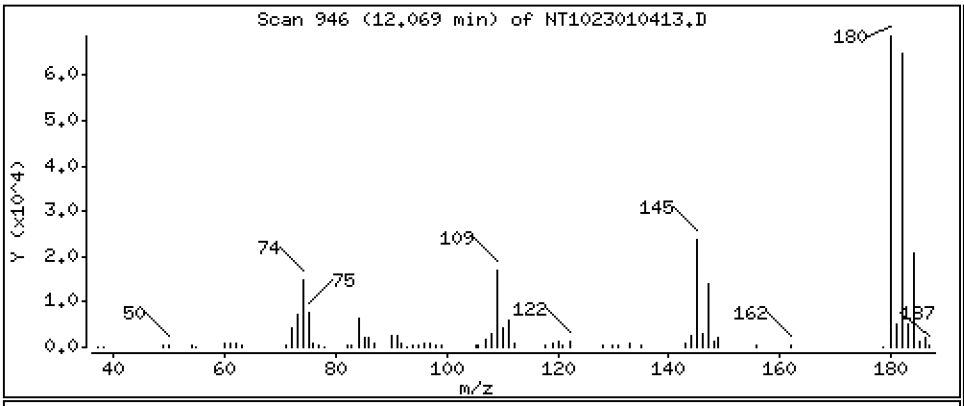
Operator: VTS

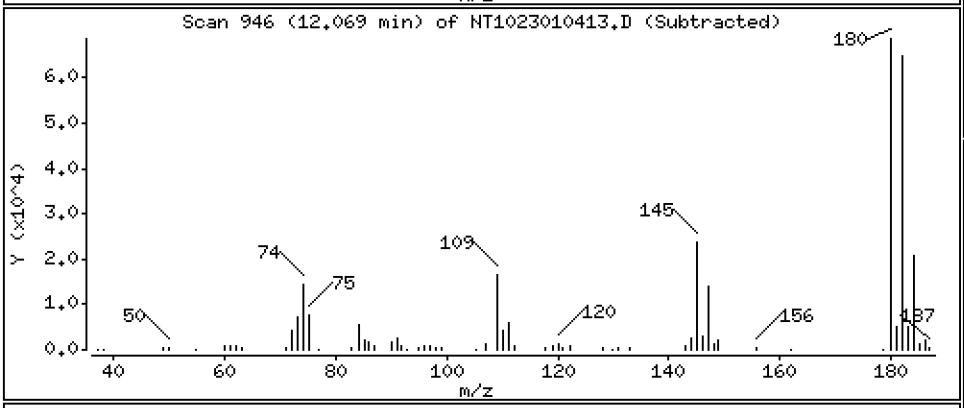
Column phase: ZB-5msi

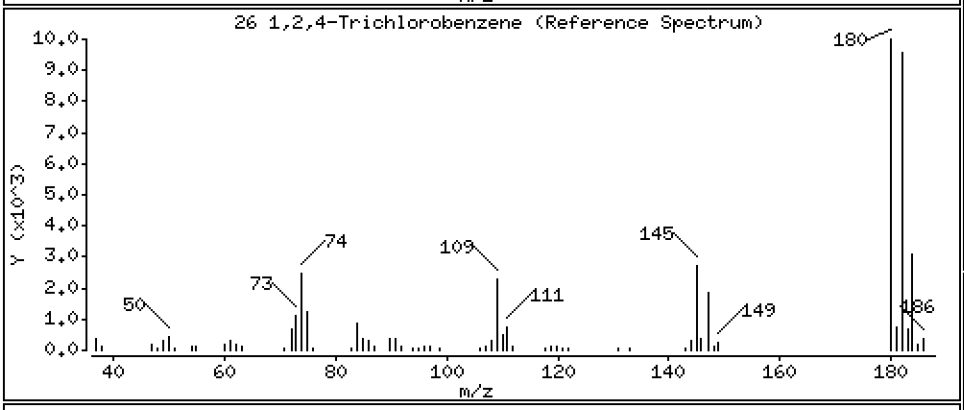
Column diameter: 0.25

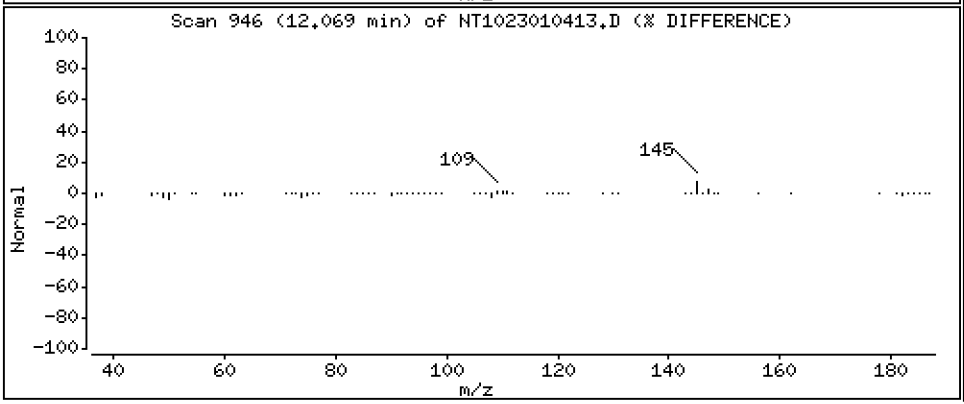
26 1,2,4-Trichlorobenzene

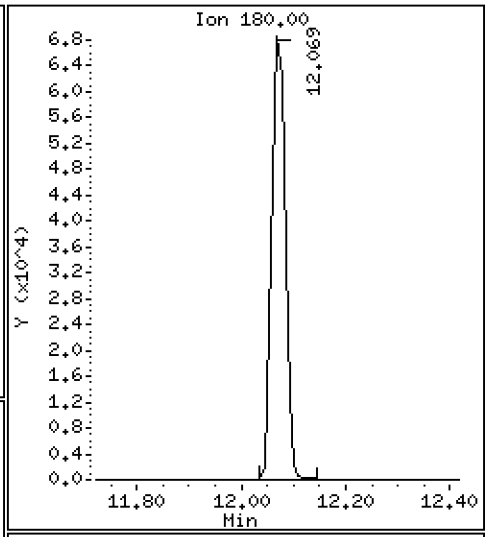
Concentration: 4.520 ug/mL

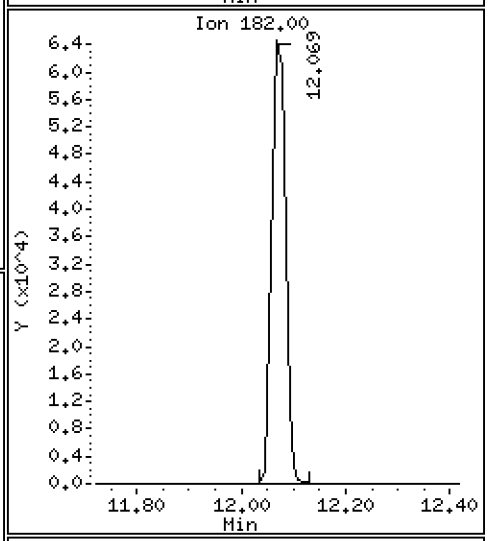


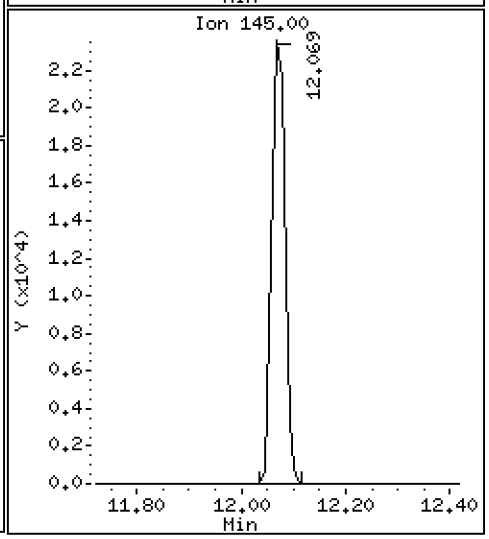












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

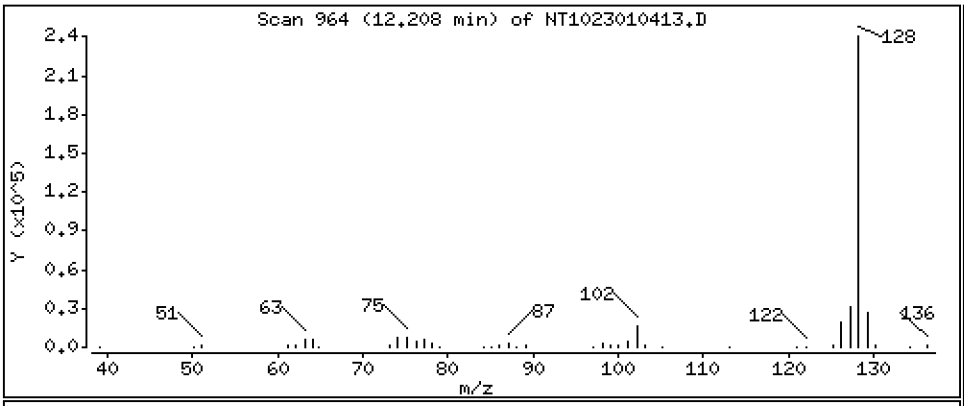
Operator: VTS

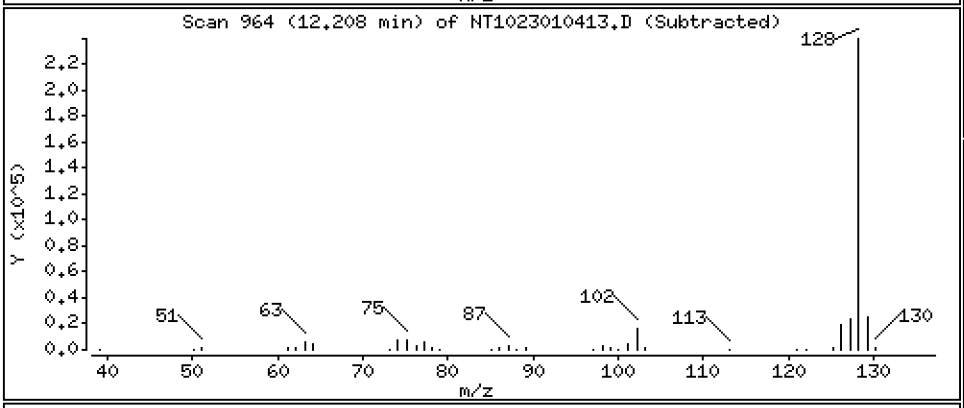
Column phase: ZB-5msi

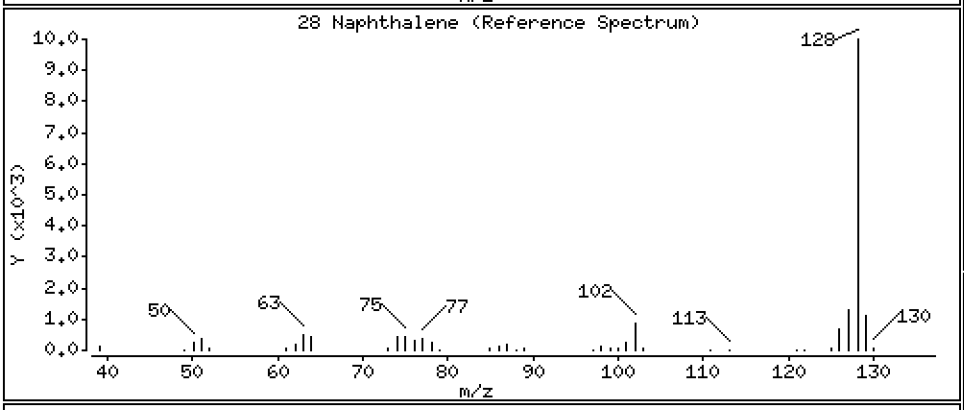
Column diameter: 0.25

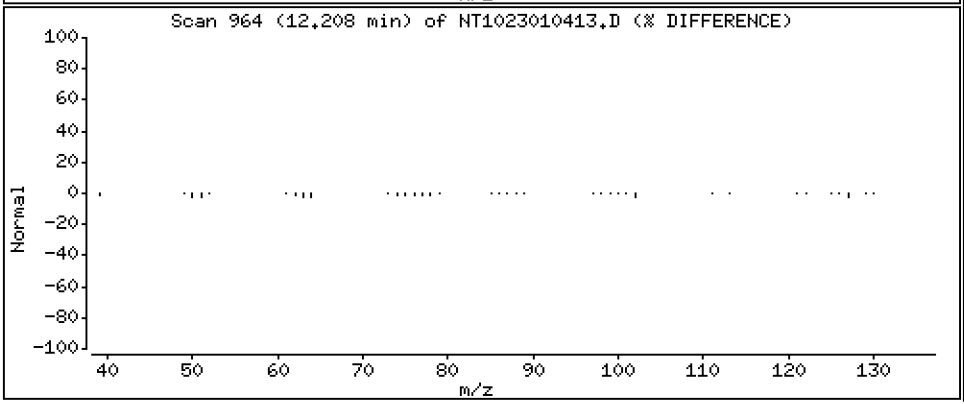
28 Naphthalene

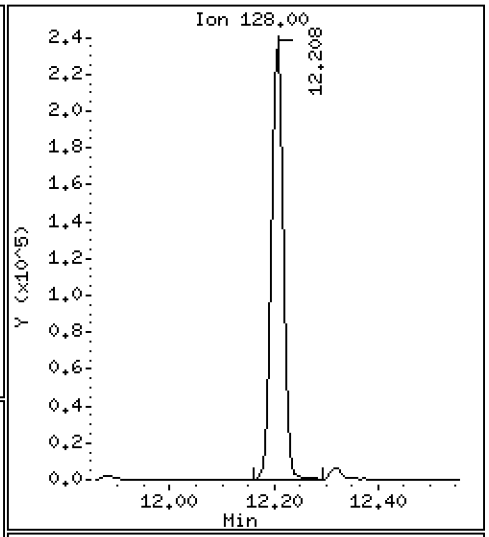
Concentration: 5.156 ug/mL

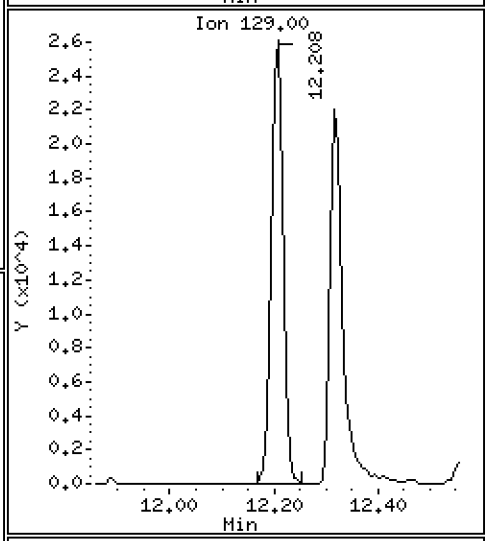


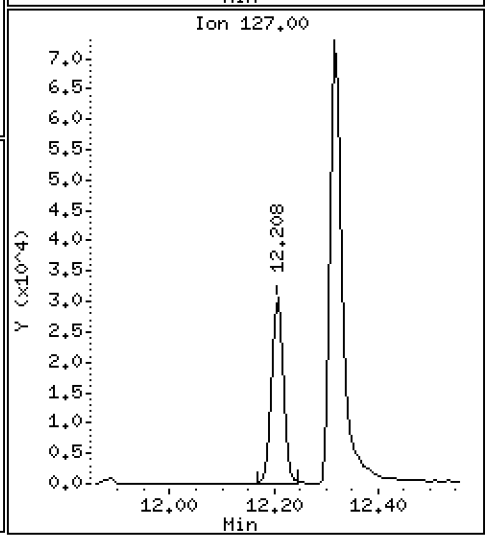












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

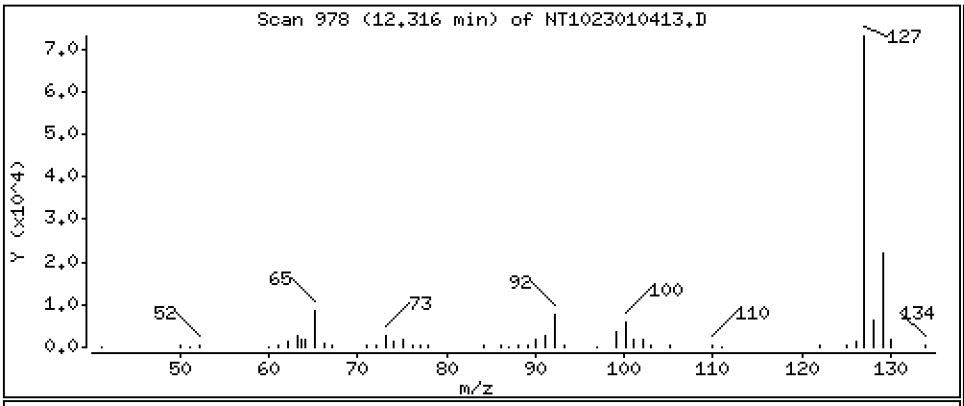
Operator: VTS

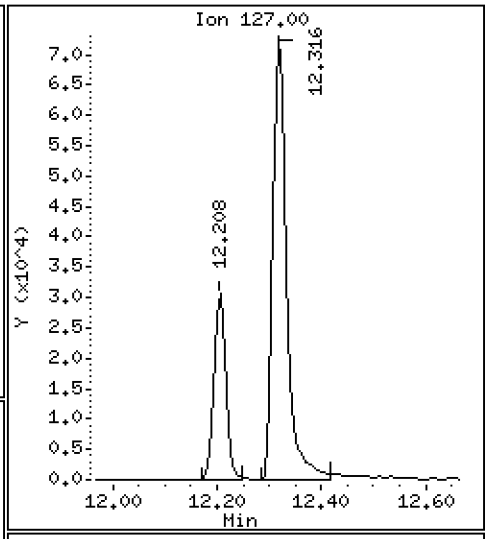
Column phase: ZB-5msi

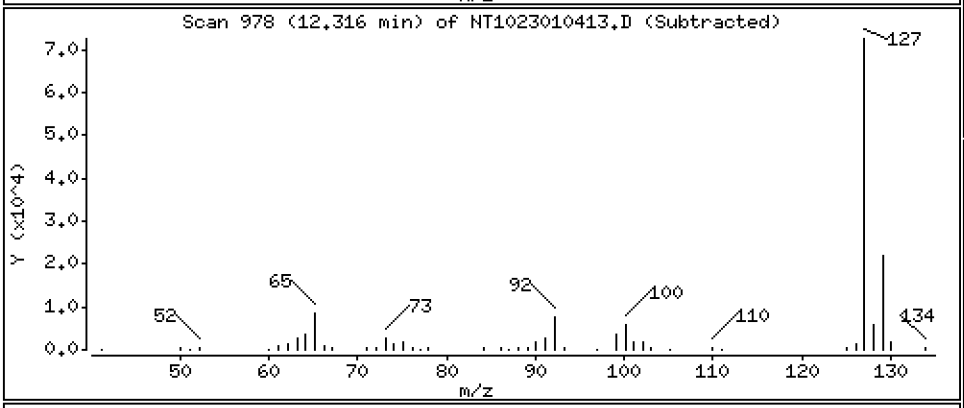
Column diameter: 0.25

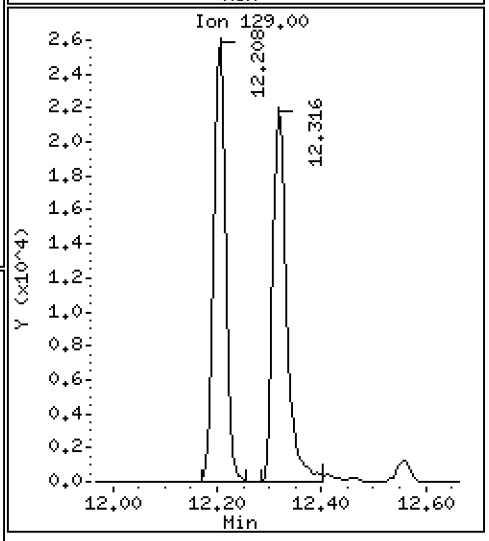
29 4-Chloroaniline

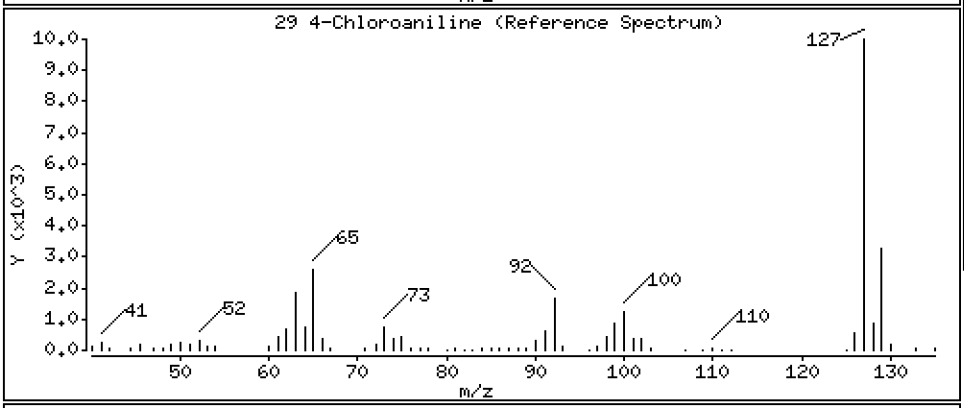
Concentration: 4.197 ug/mL

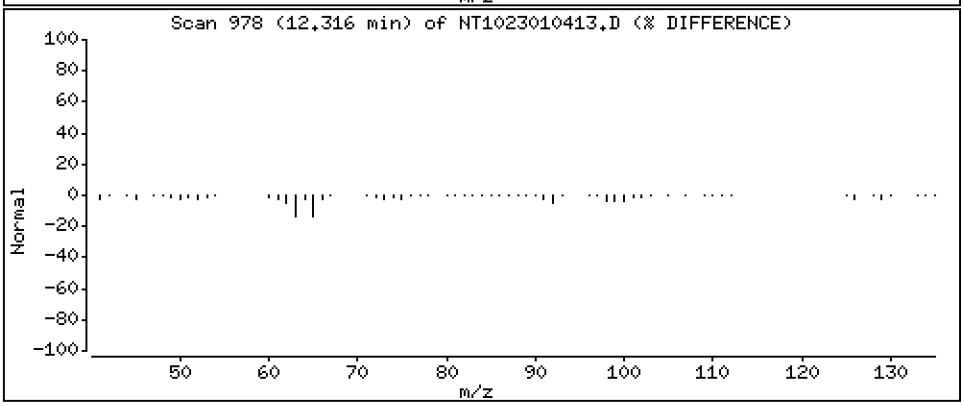












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

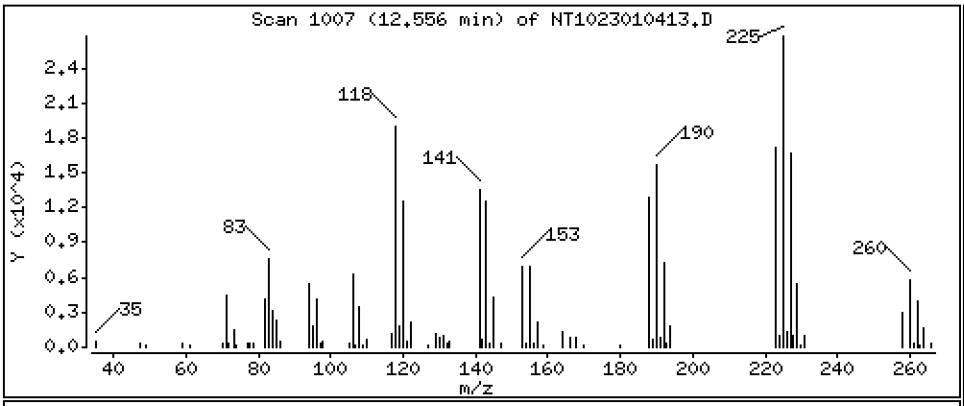
Operator: VTS

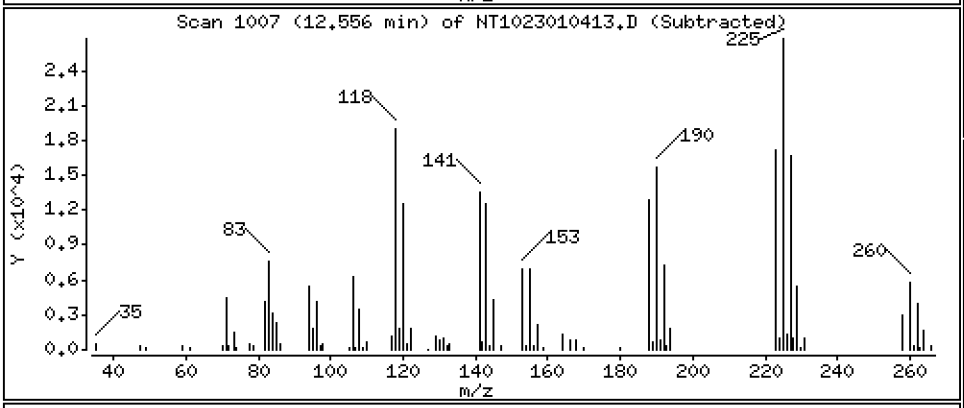
Column phase: ZB-5msi

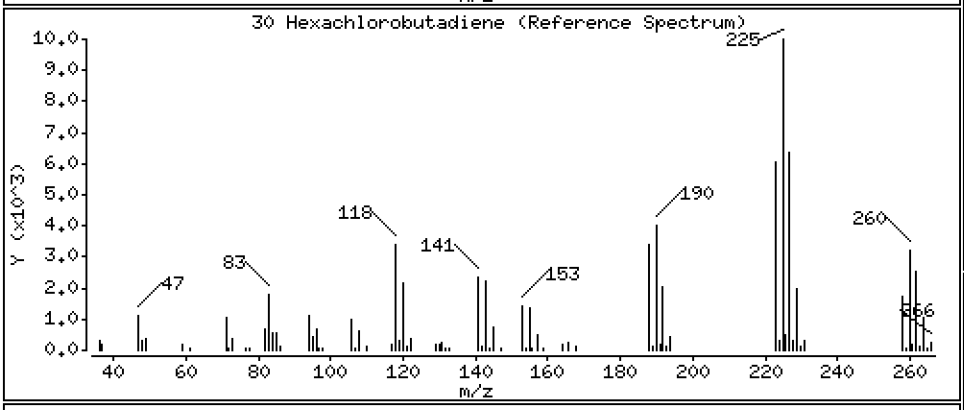
Column diameter: 0.25

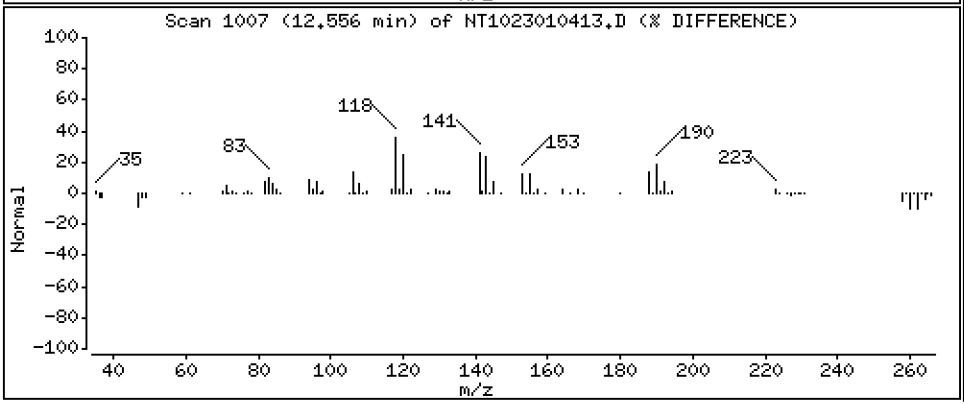
30 Hexachlorobutadiene

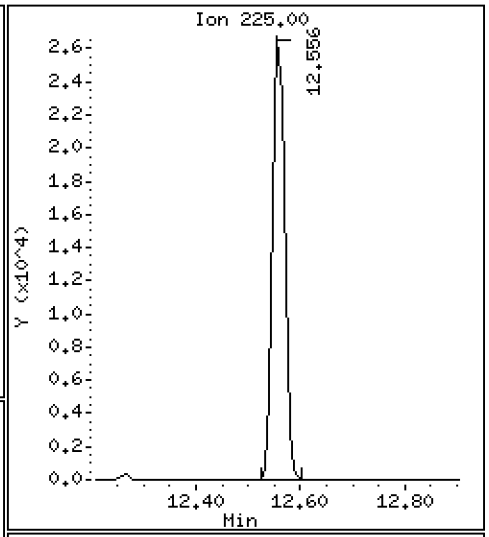
Concentration: 4.884 ug/mL

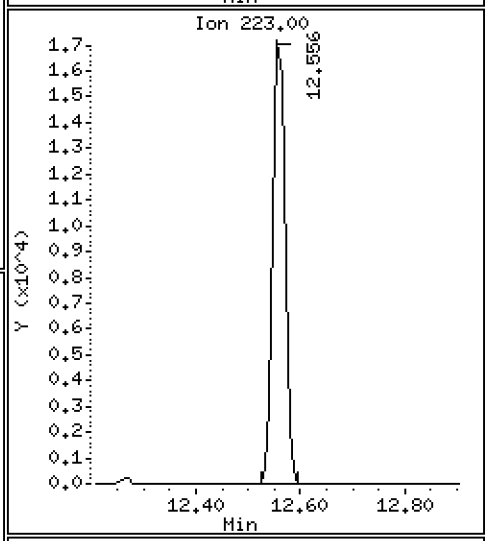


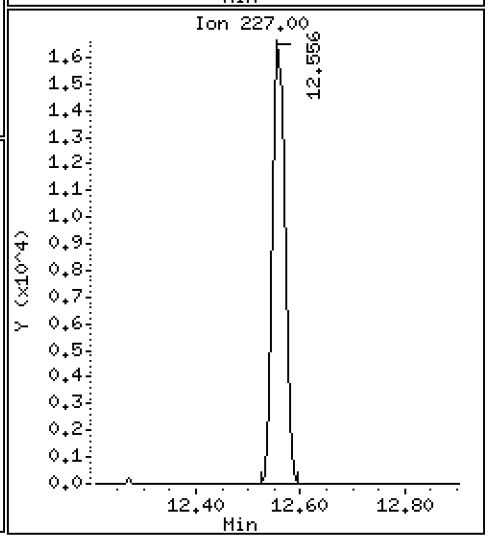












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

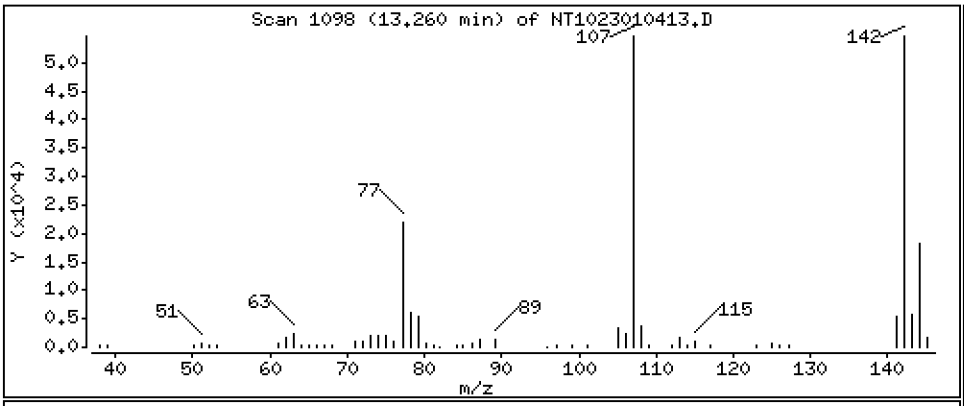
Operator: VTS

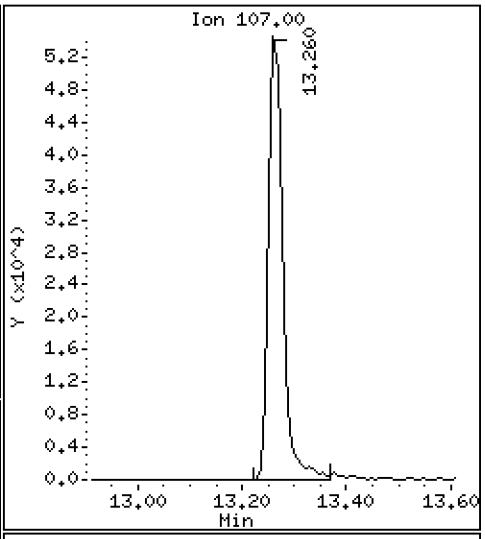
Column phase: ZB-5msi

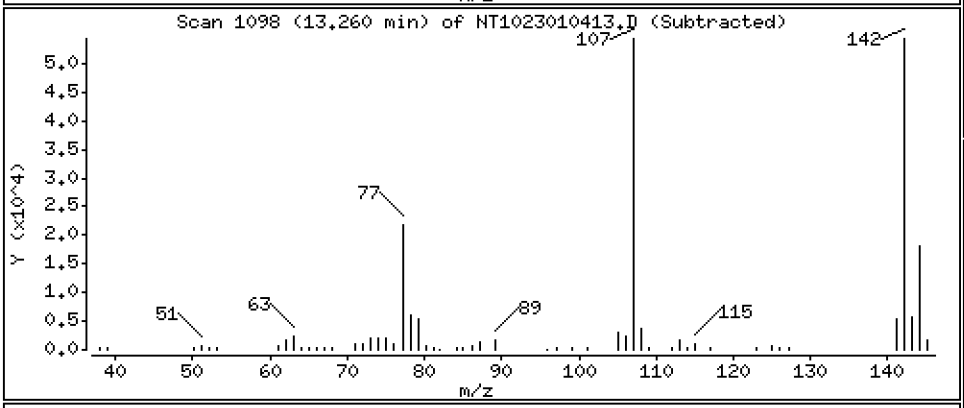
Column diameter: 0.25

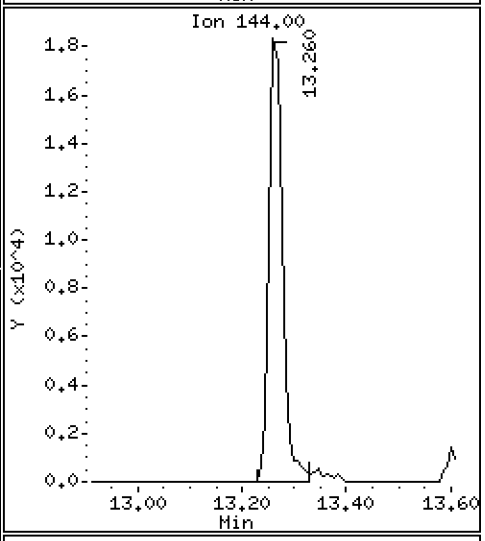
31 4-Chloro-3-methylphenol

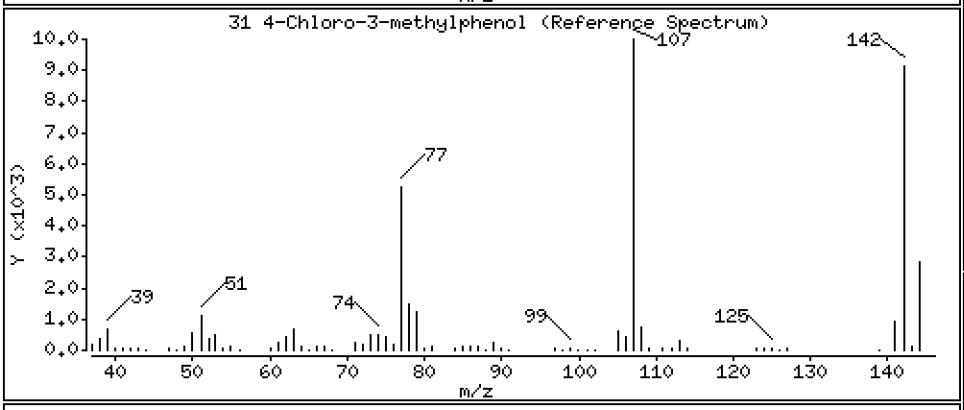
Concentration: 4.515 ug/mL

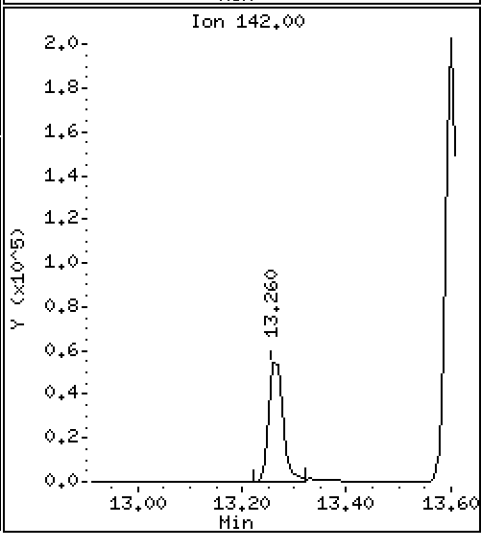


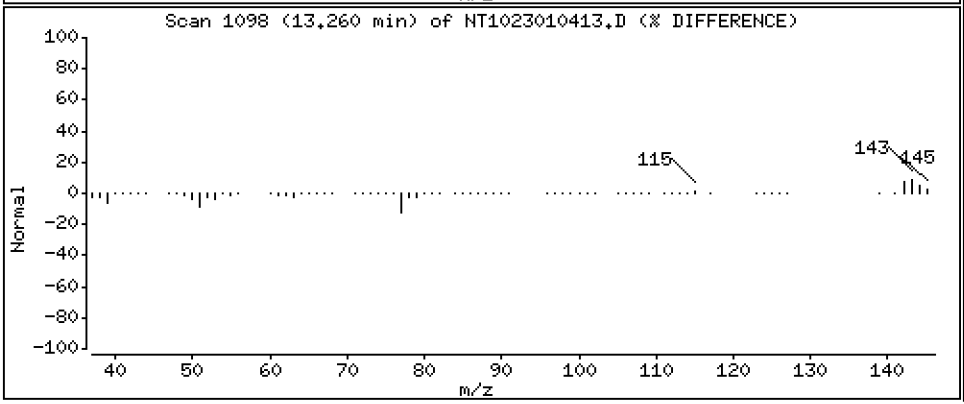












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

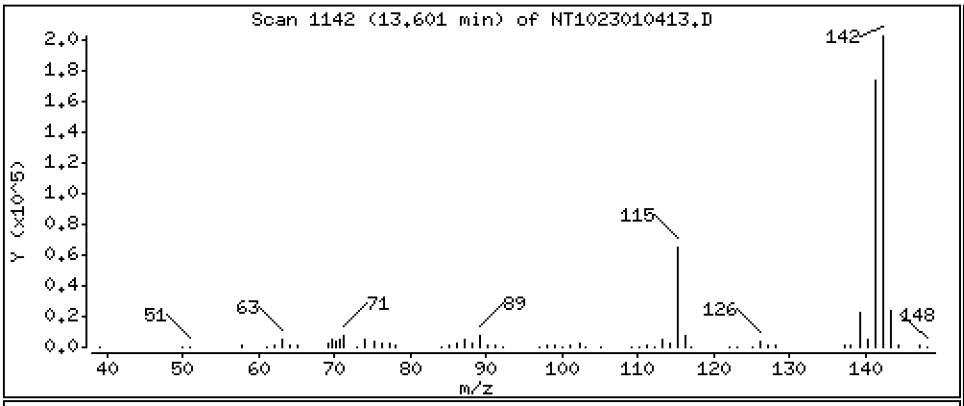
Operator: VTS

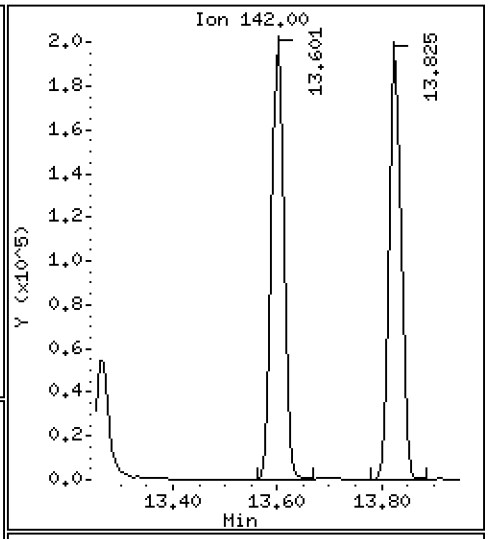
Column phase: ZB-5msi

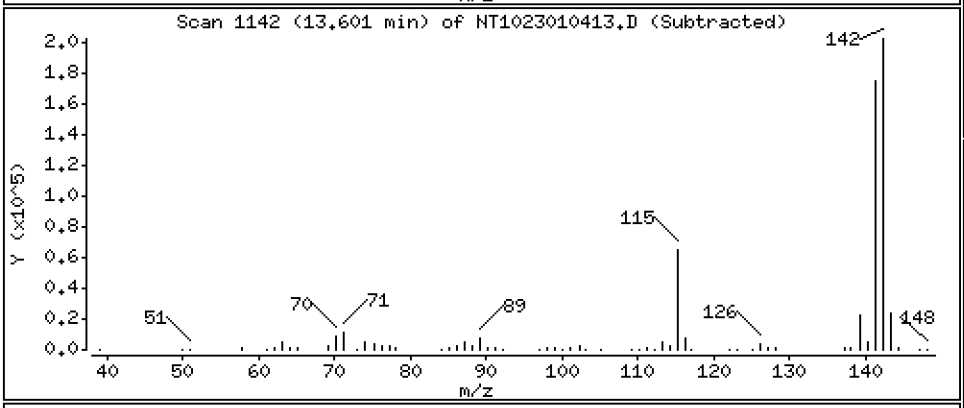
Column diameter: 0.25

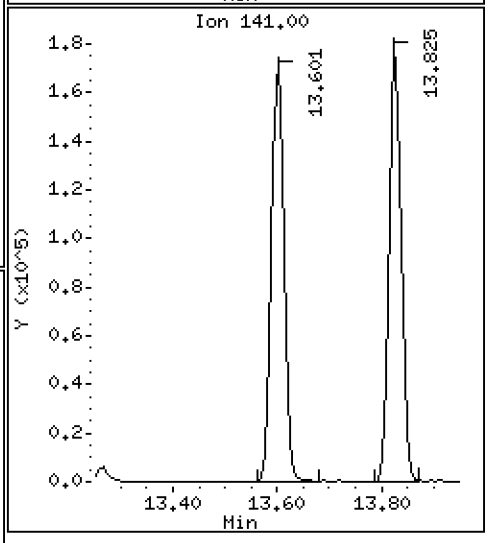
32 2-Methylnaphthalene

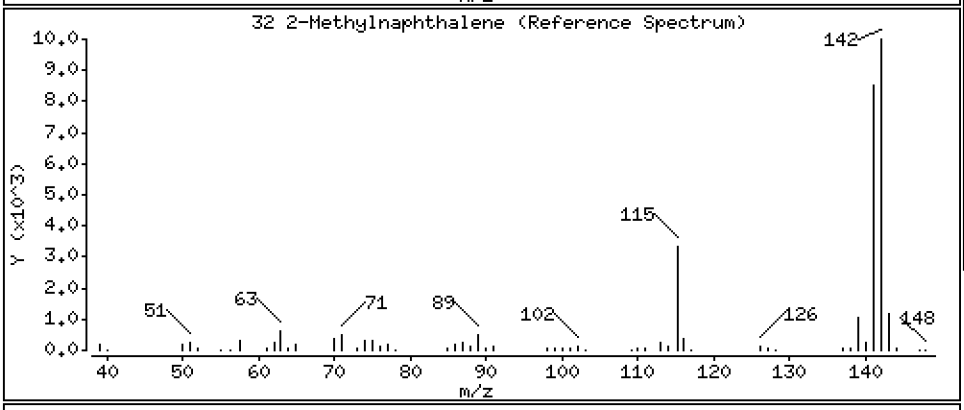
Concentration: 5.163 ug/mL

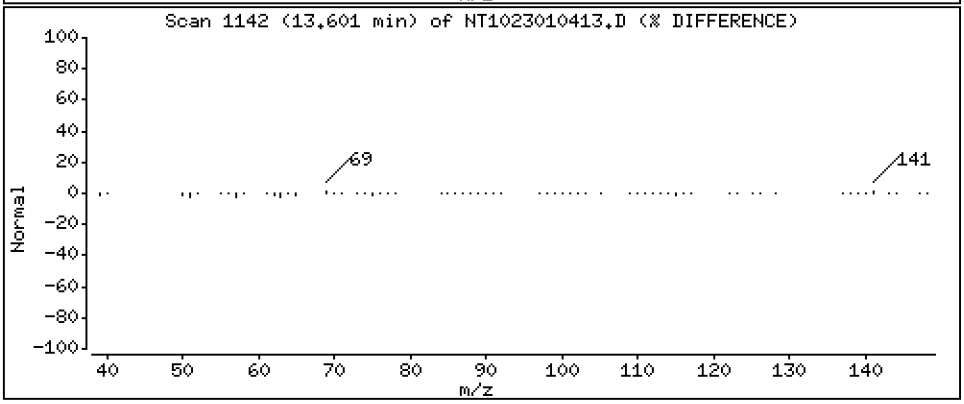












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

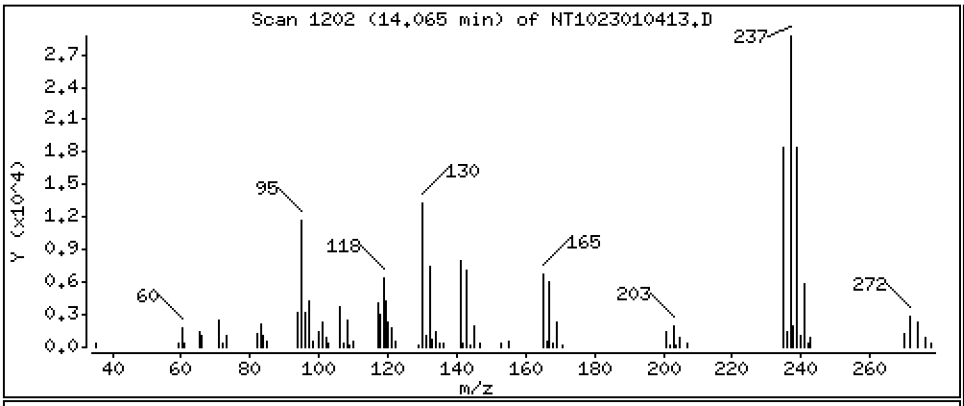
Operator: VTS

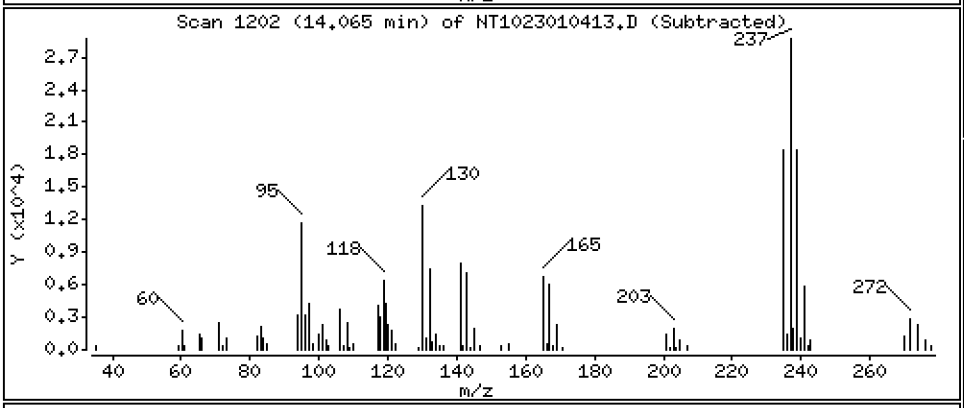
Column phase: ZB-5msi

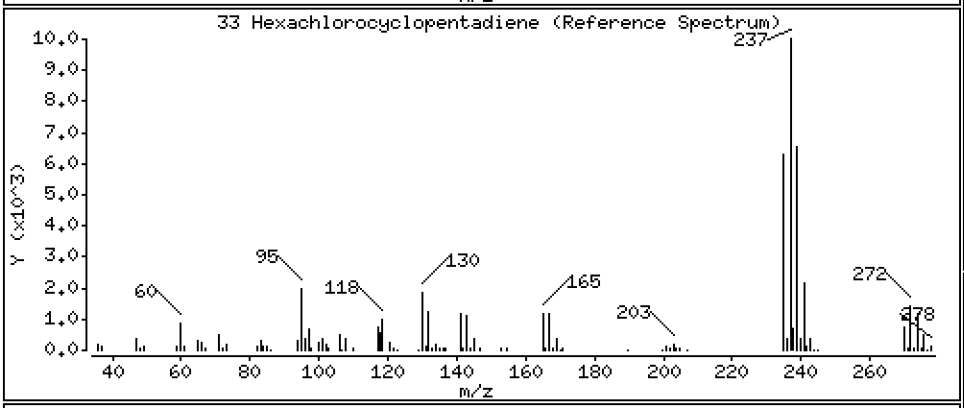
Column diameter: 0.25

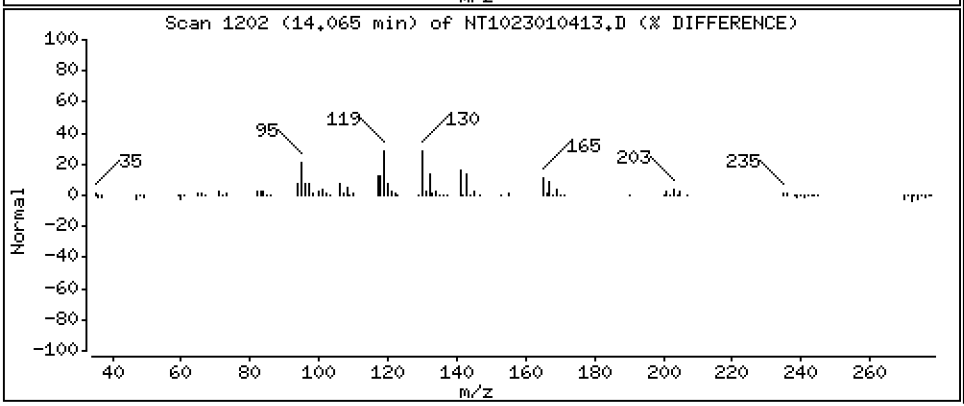
33 Hexachlorocyclopentadiene

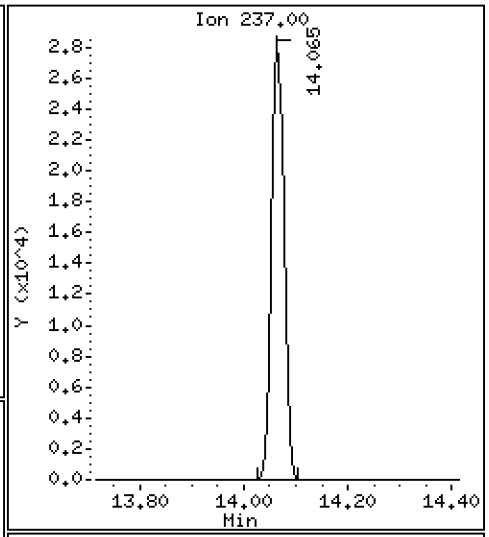
Concentration: 5.178 ug/mL

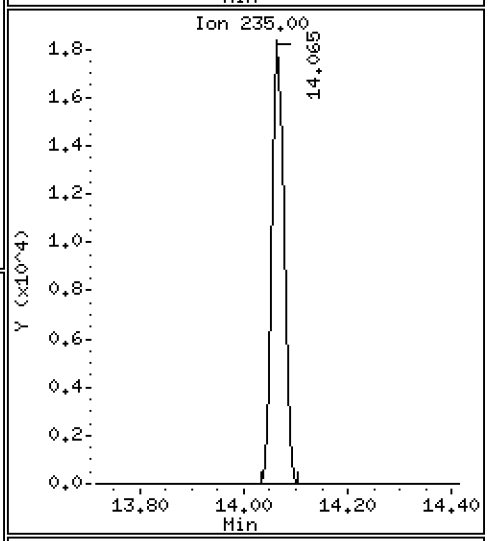


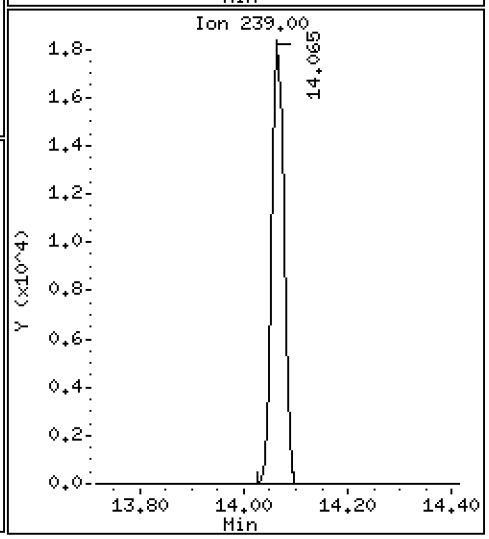












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

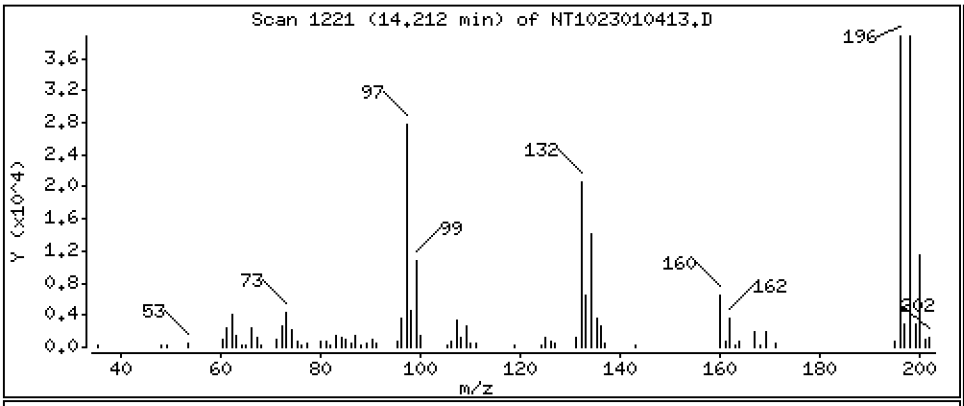
Operator: VTS

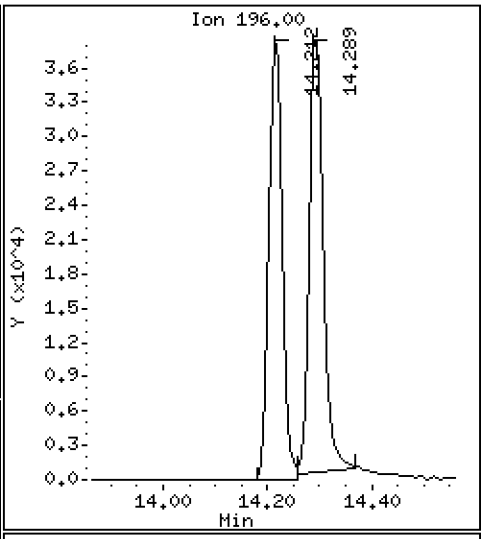
Column phase: ZB-5msi

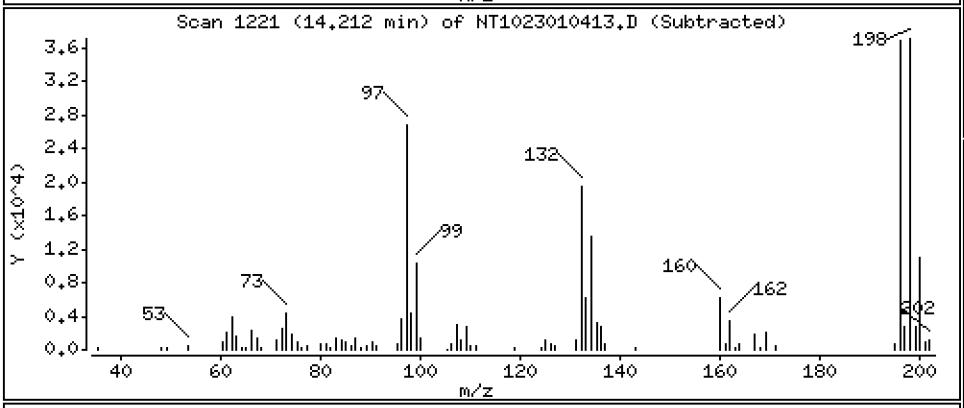
Column diameter: 0.25

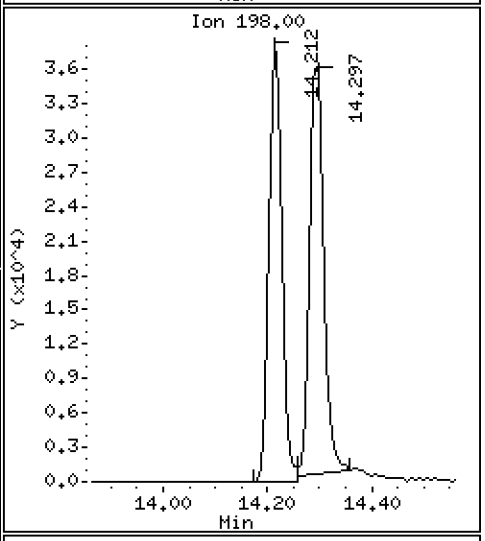
34 2,4,6-Trichlorophenol

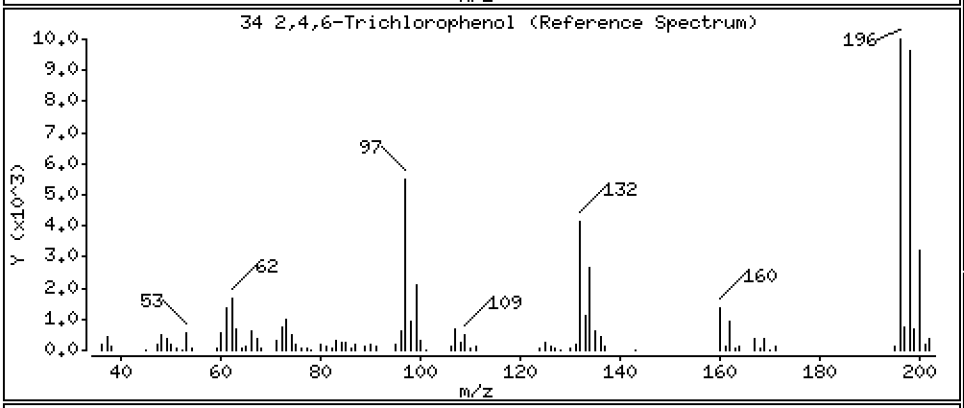
Concentration: 4.948 ug/mL

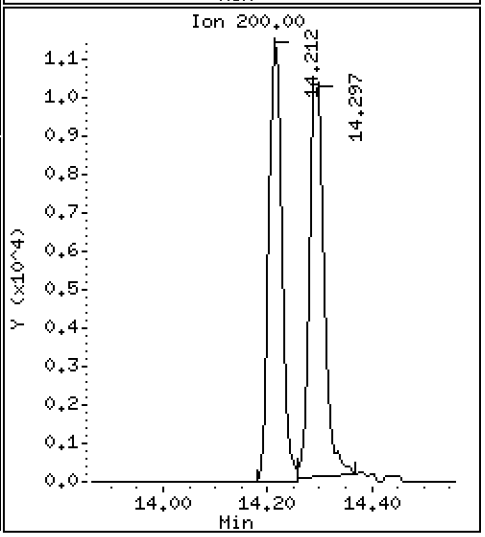


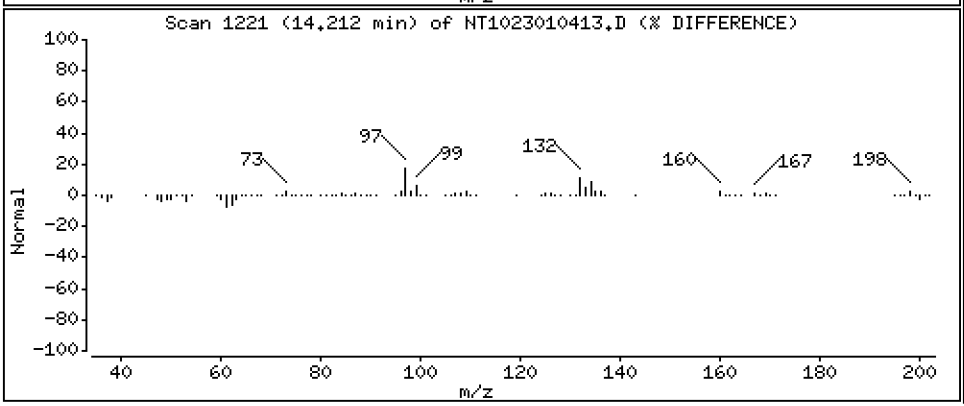












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

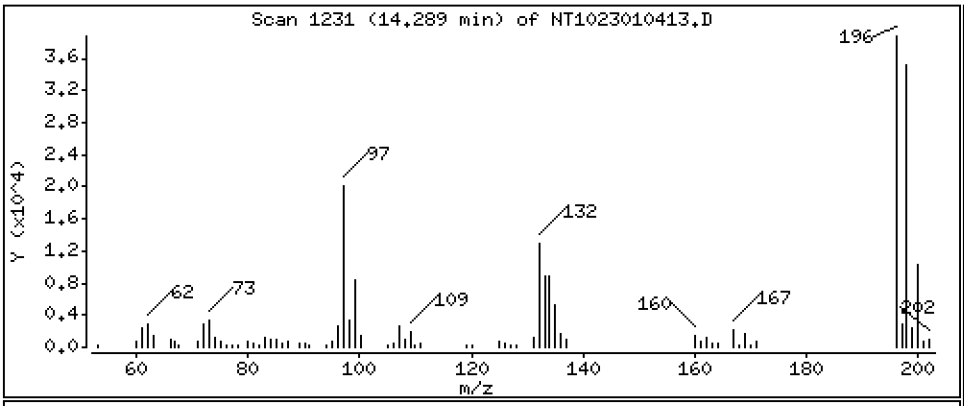
Operator: VTS

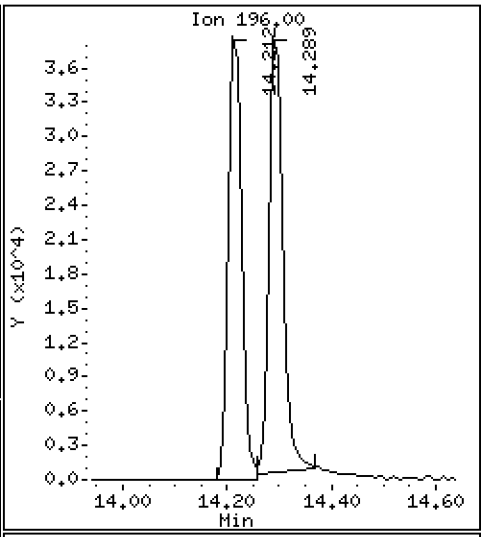
Column phase: ZB-5msi

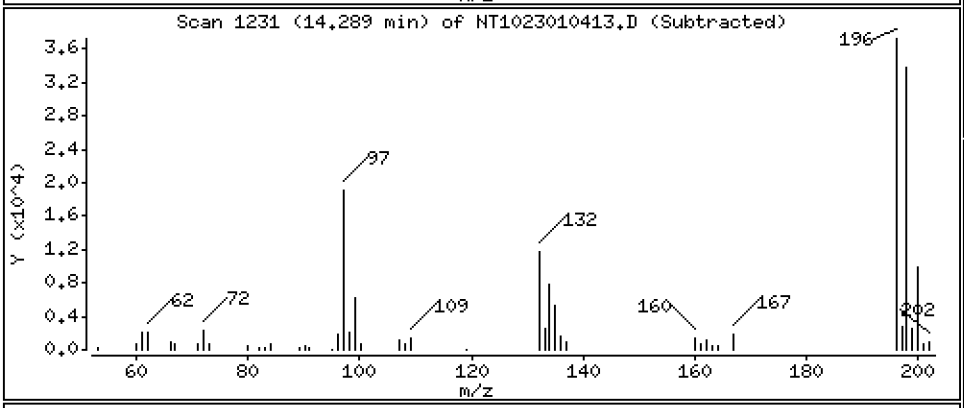
Column diameter: 0.25

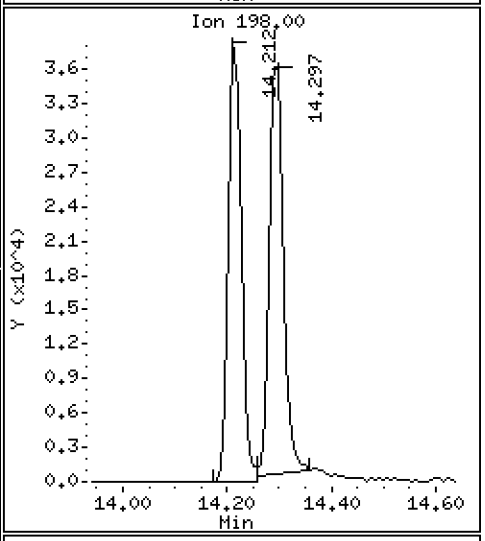
35 2,4,5-Trichlorophenol

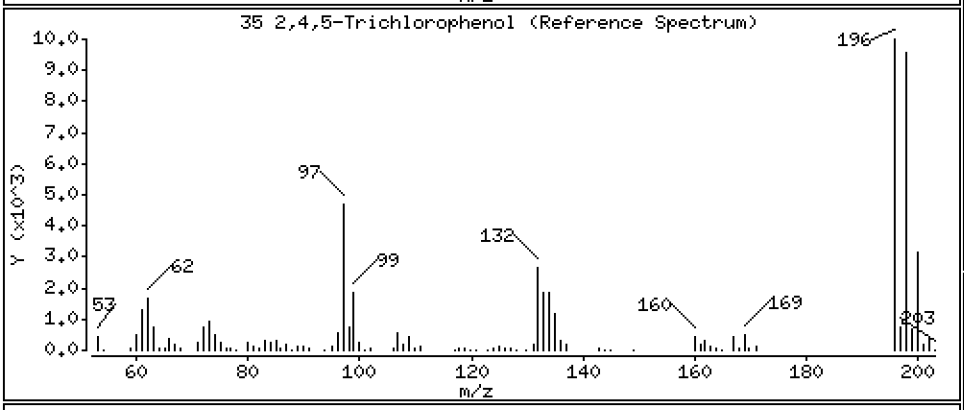
Concentration: 4.607 ug/mL

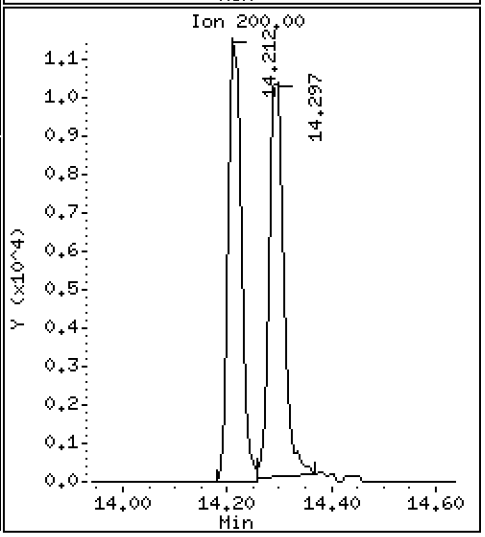


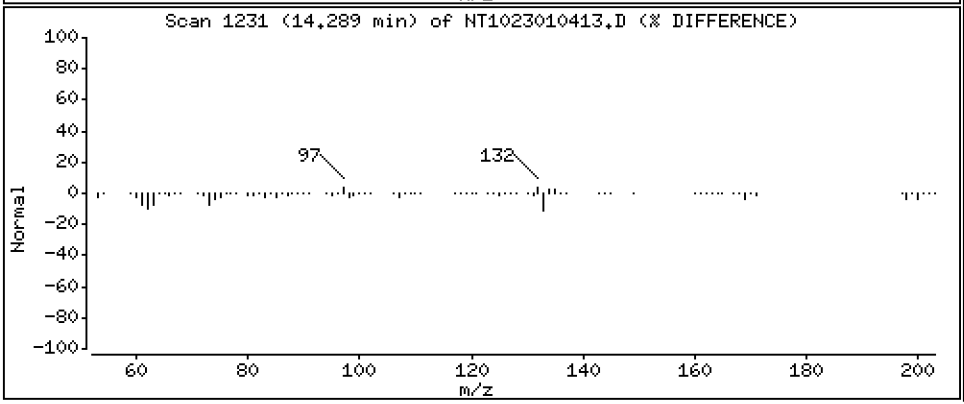












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

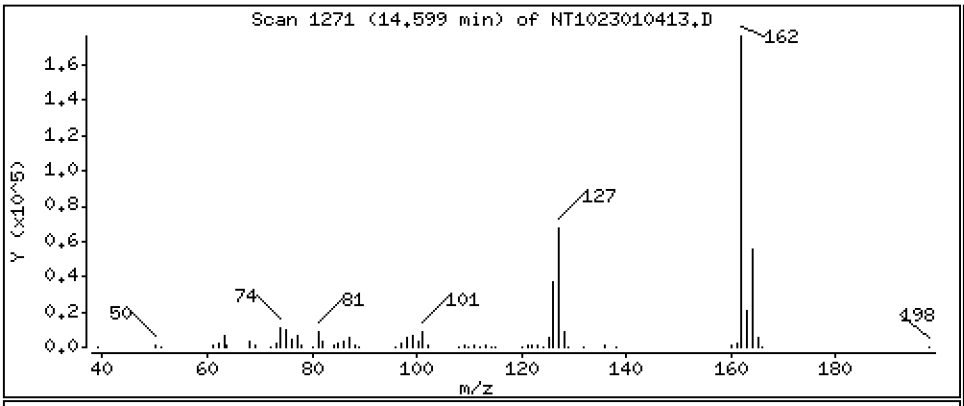
Operator: VTS

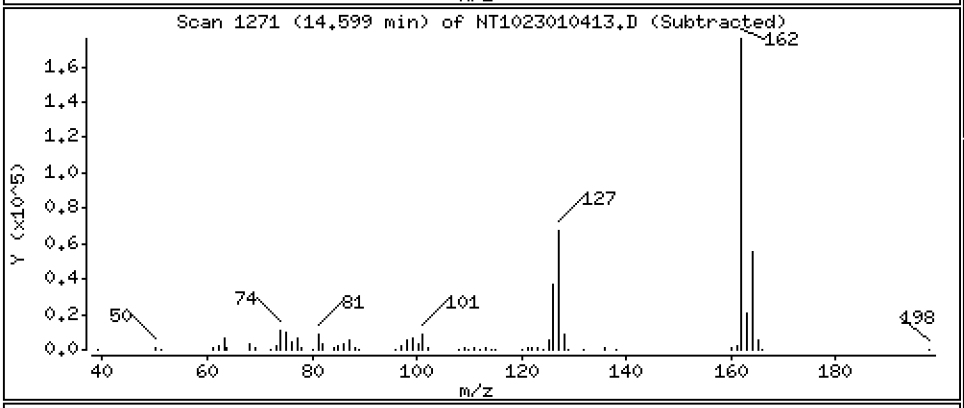
Column phase: ZB-5msi

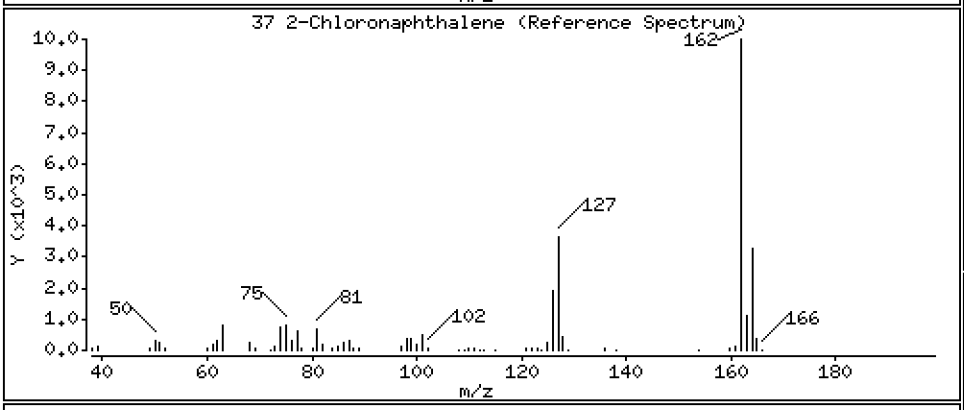
Column diameter: 0.25

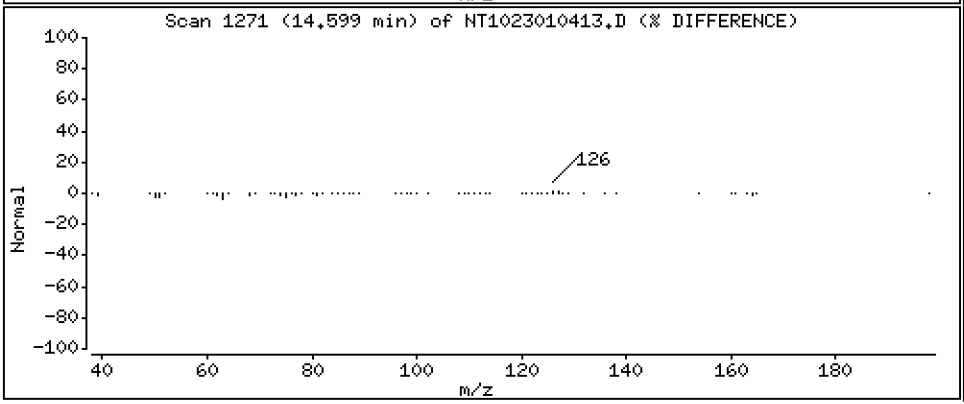
37 2-Chloronaphthalene

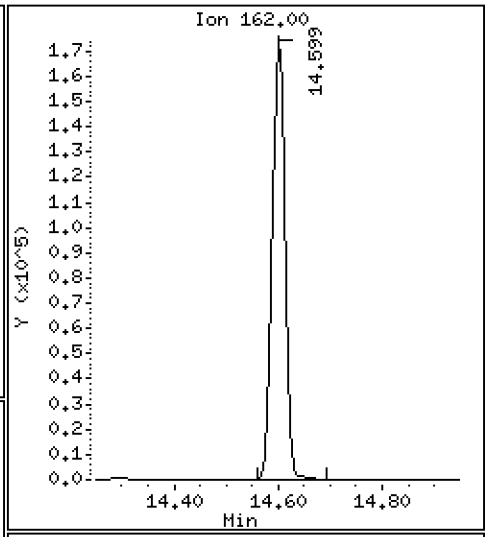
Concentration: 5.379 ug/mL

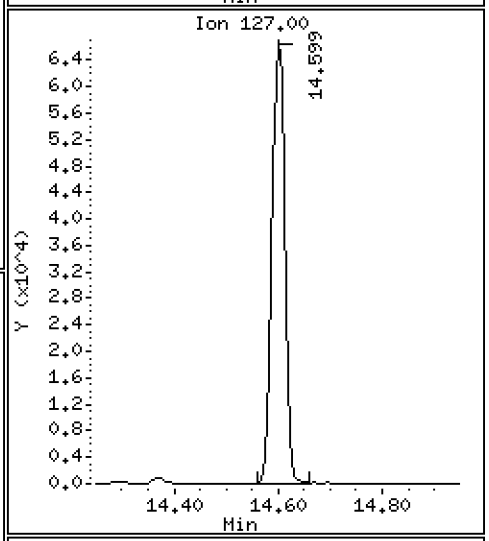


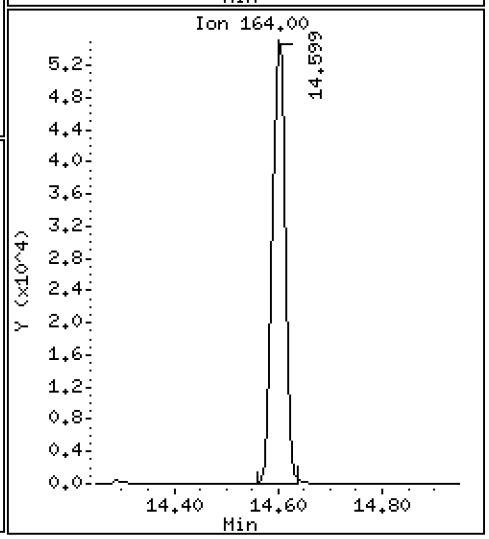












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

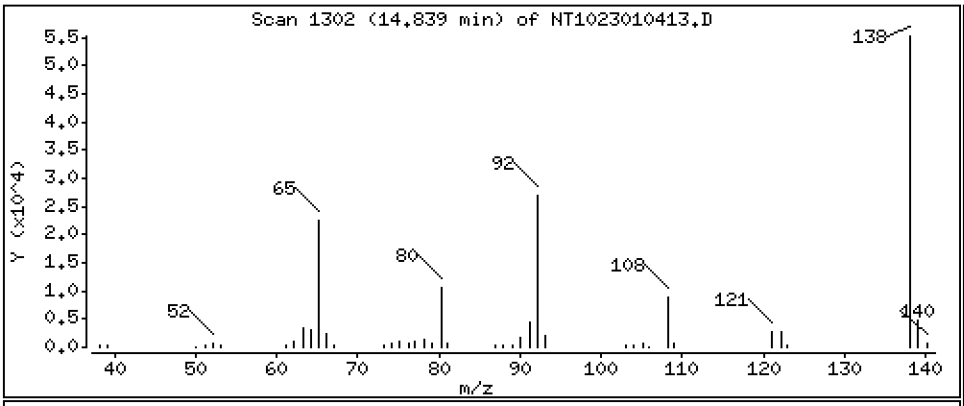
Operator: VTS

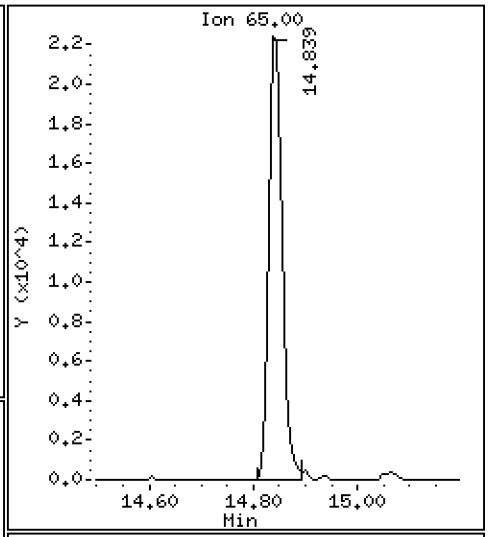
Column phase: ZB-5msi

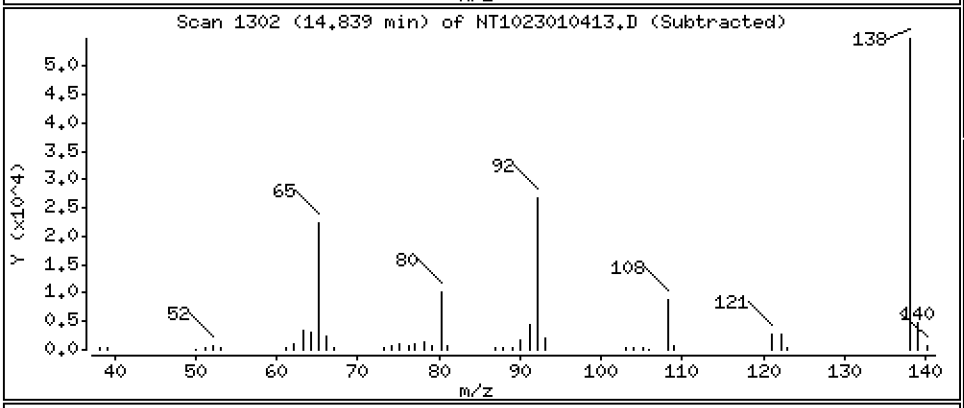
Column diameter: 0.25

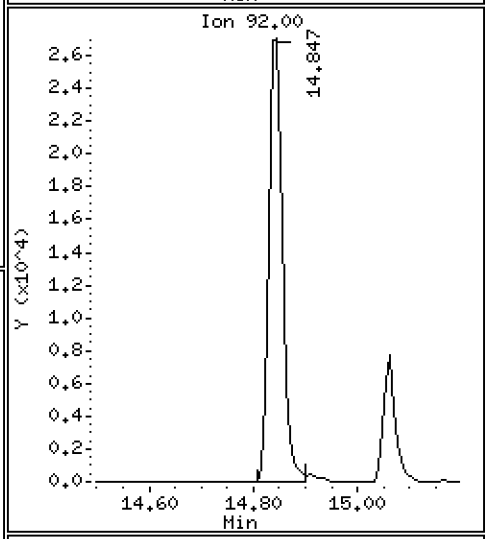
38 2-Nitroaniline

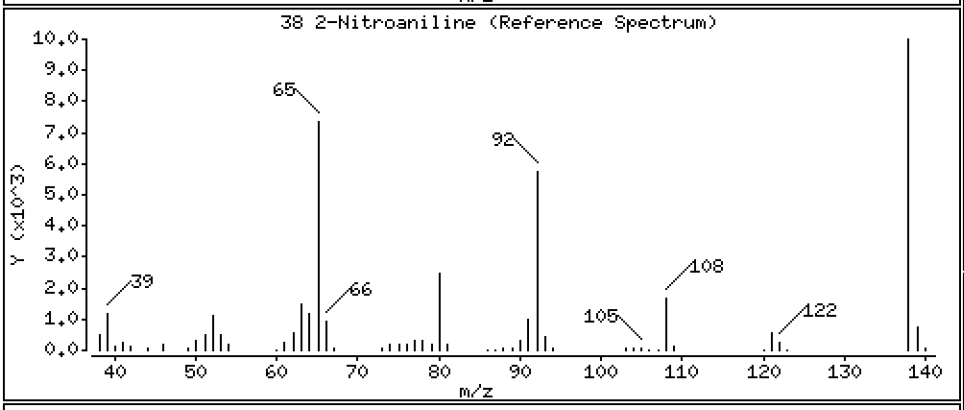
Concentration: 5.391 ug/mL

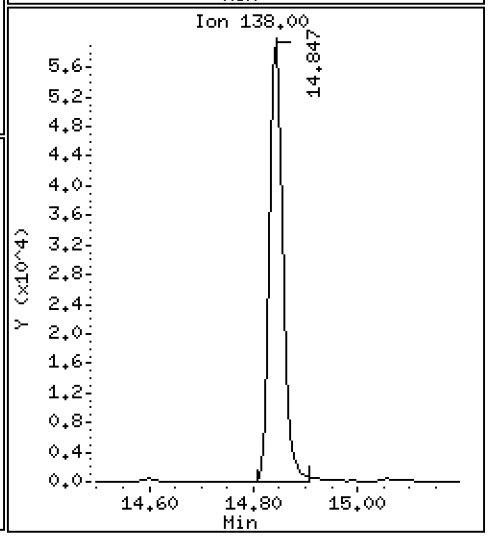


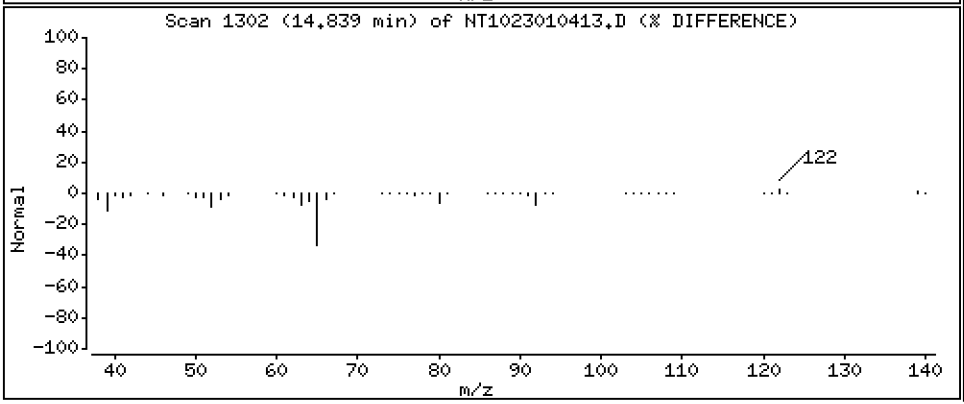












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

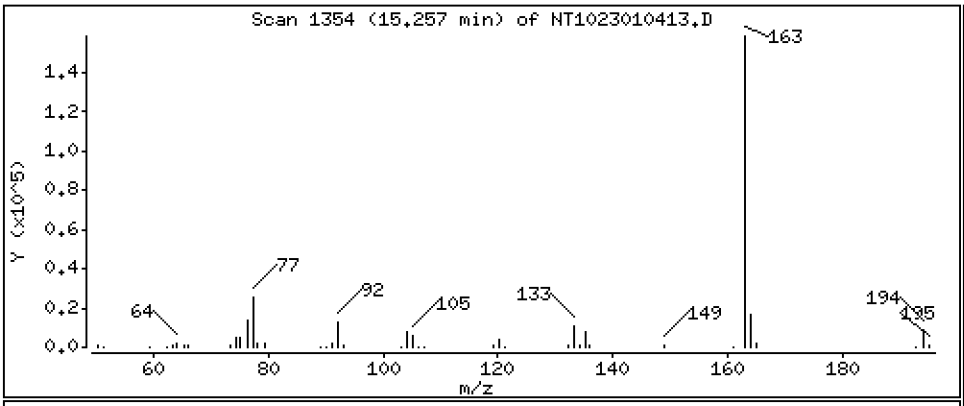
Operator: VTS

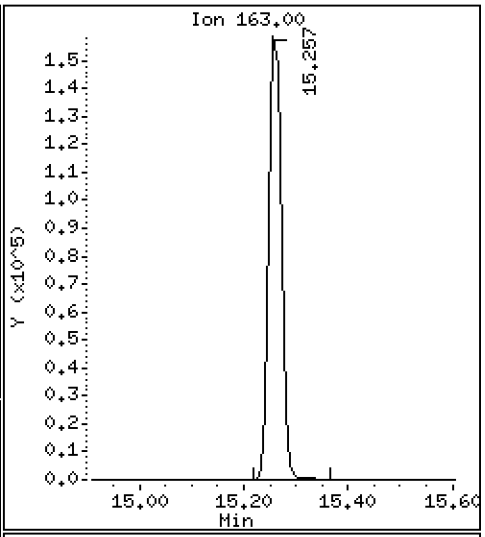
Column phase: ZB-5msi

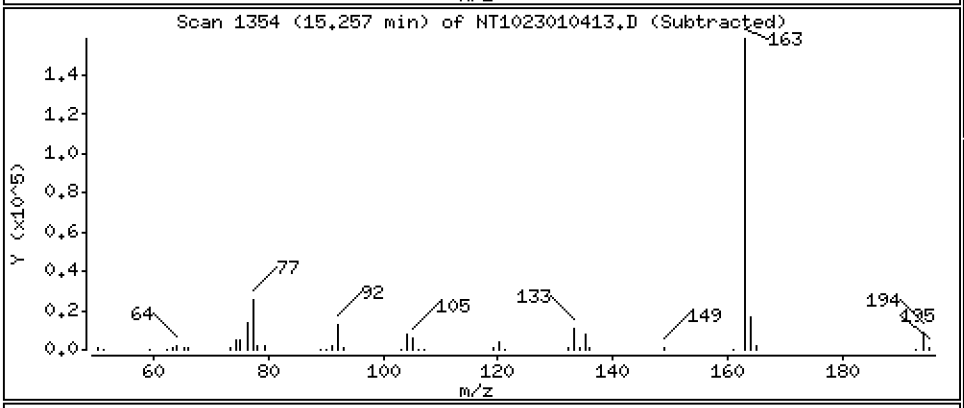
Column diameter: 0.25

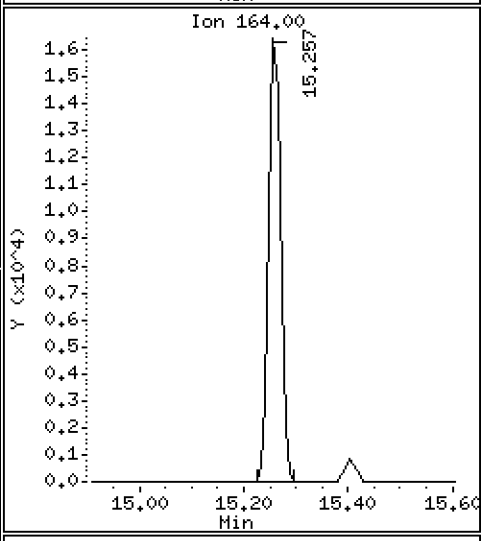
39 Dimethylphthalate

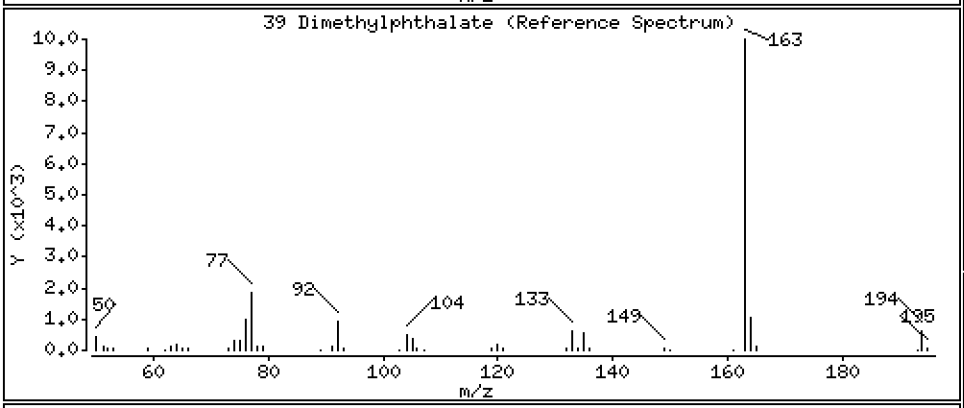
Concentration: 5.362 ug/mL

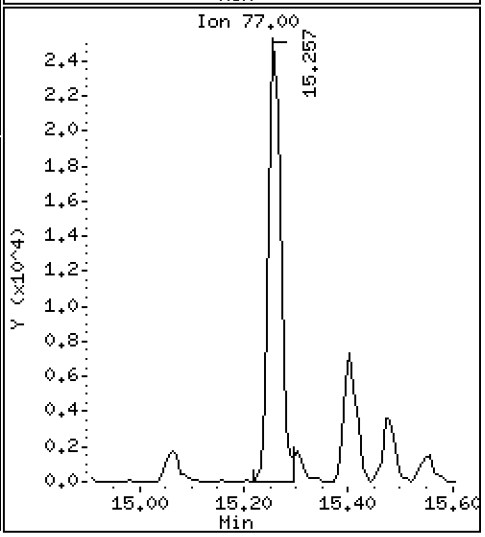


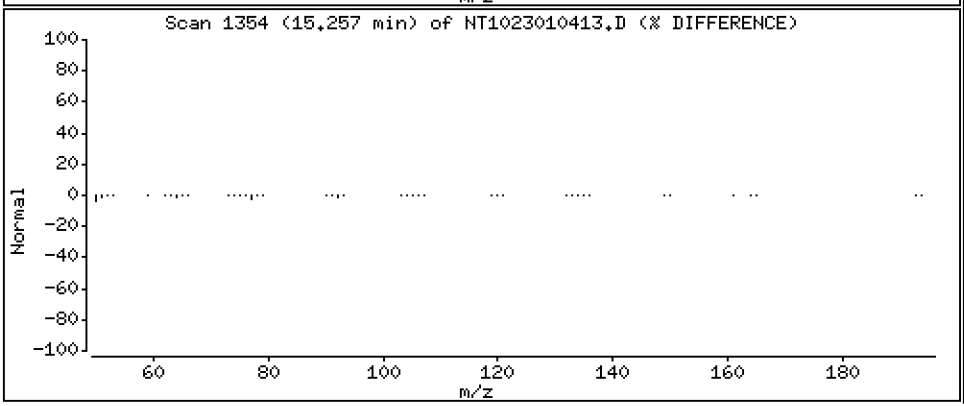












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

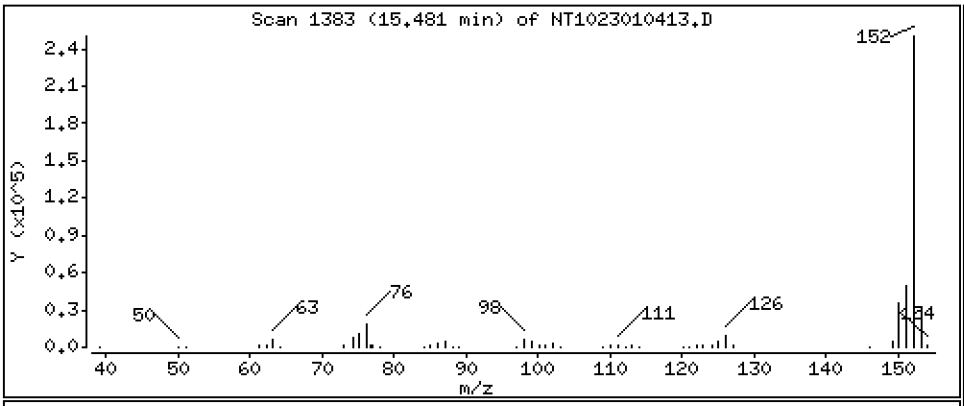
Operator: VTS

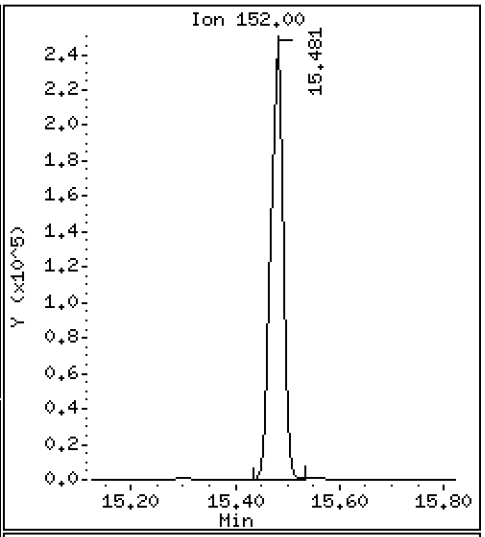
Column phase: ZB-5msi

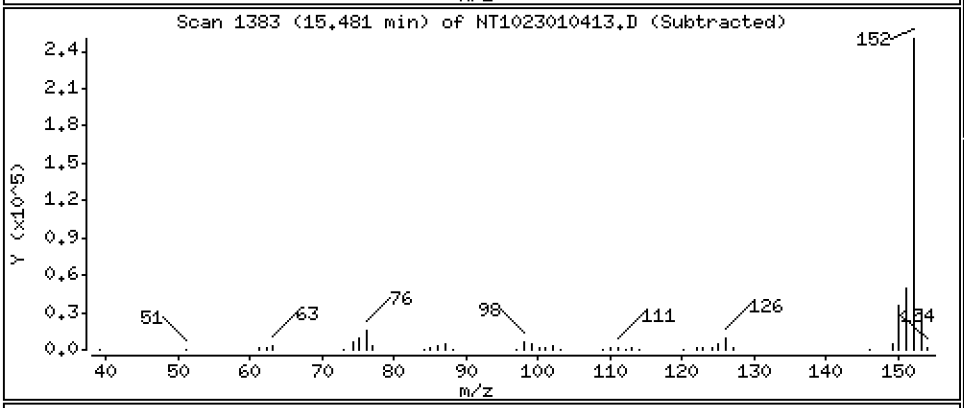
Column diameter: 0.25

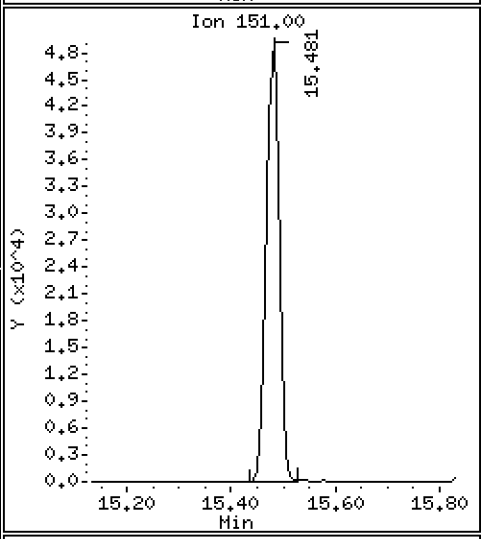
40 Acenaphthylene

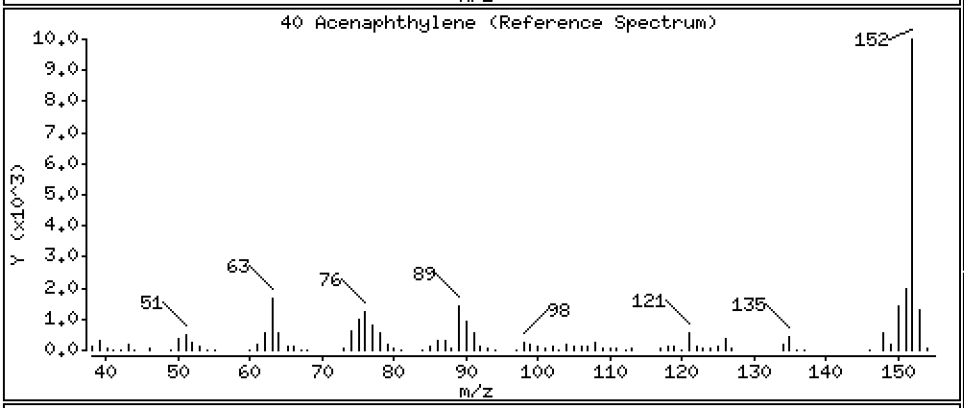
Concentration: 5.275 ug/mL

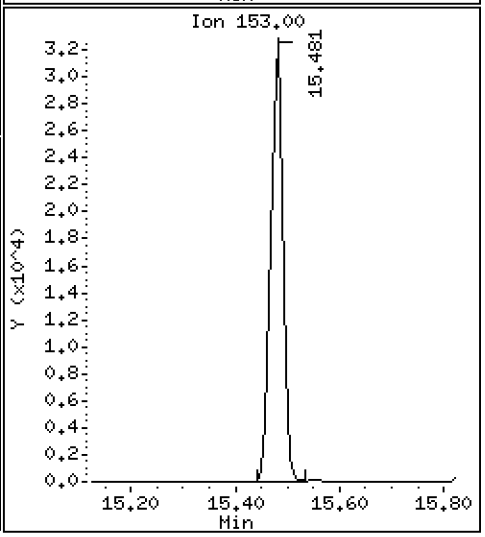


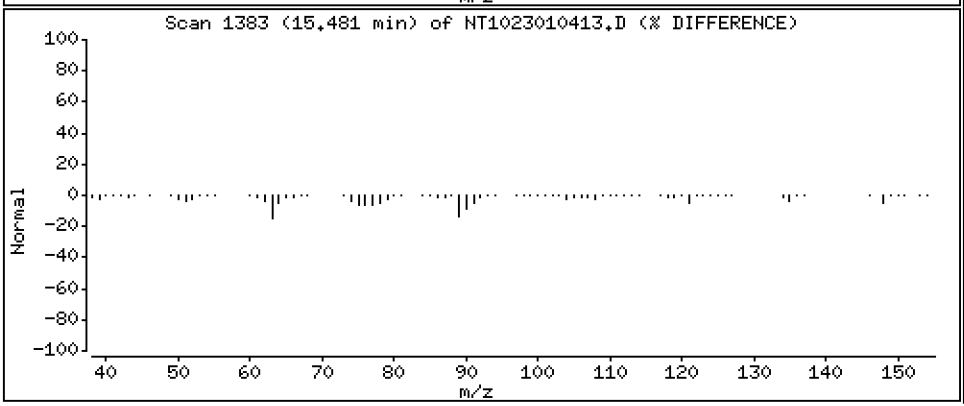












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

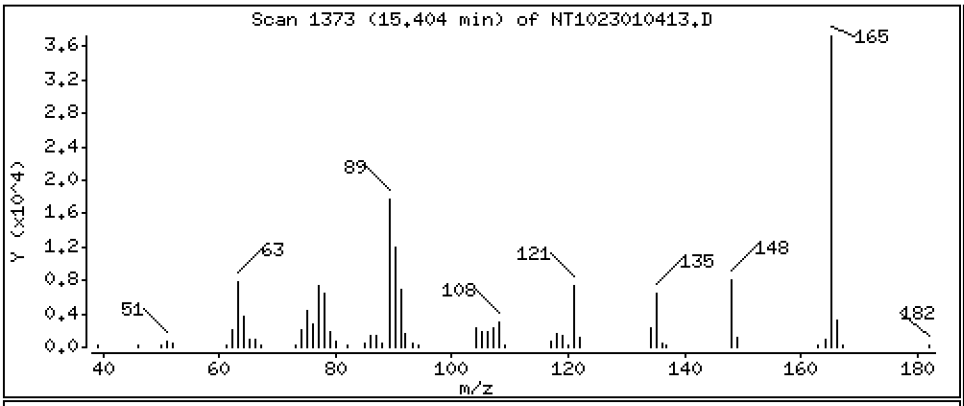
Operator: VTS

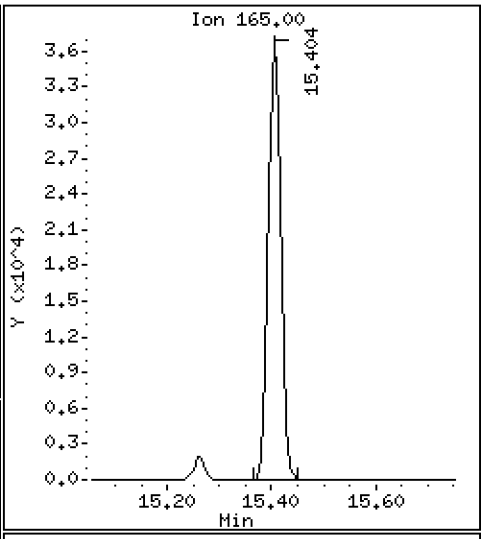
Column phase: ZB-5msi

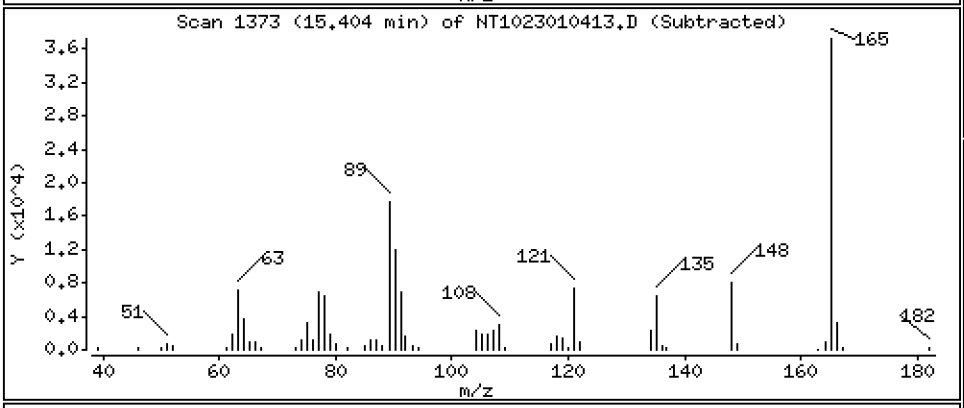
Column diameter: 0.25

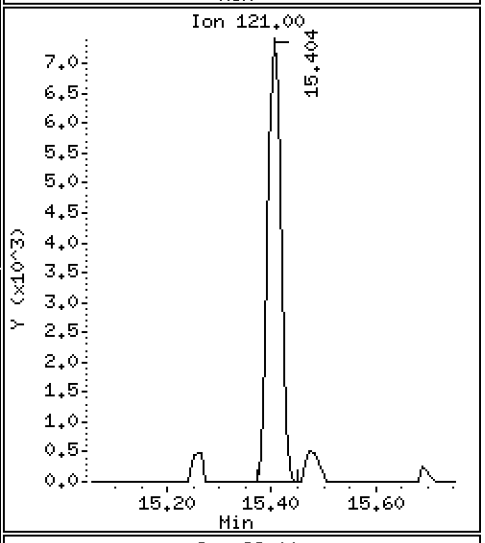
41 2,6-Dinitrotoluene

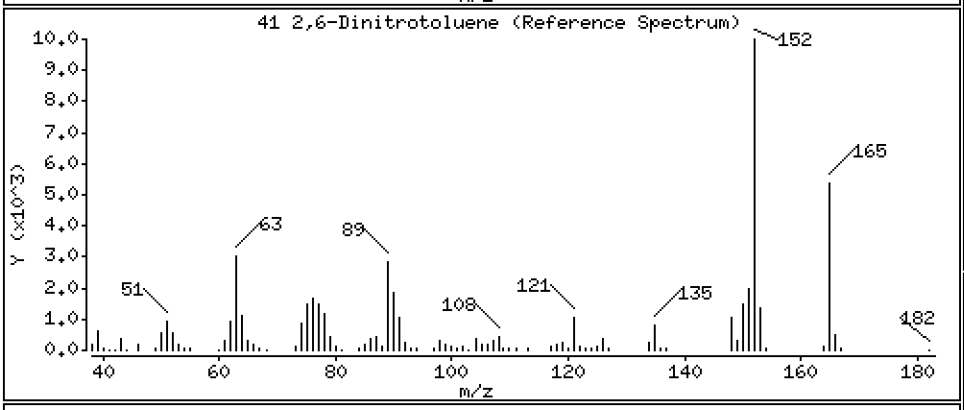
Concentration: 5.450 ug/mL

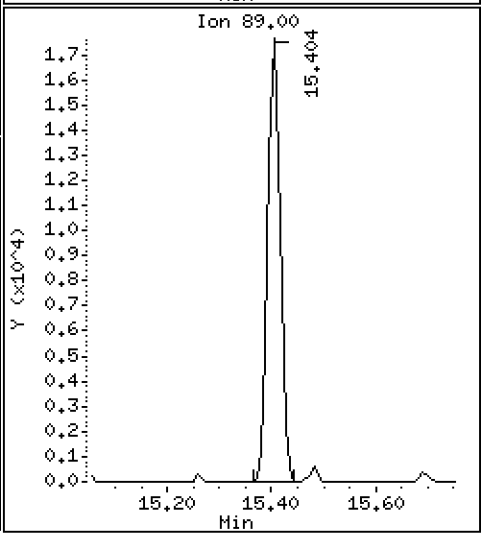


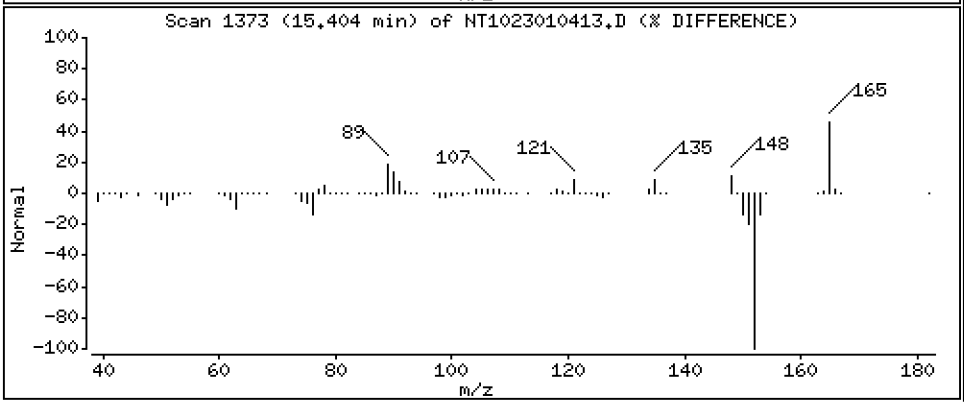












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

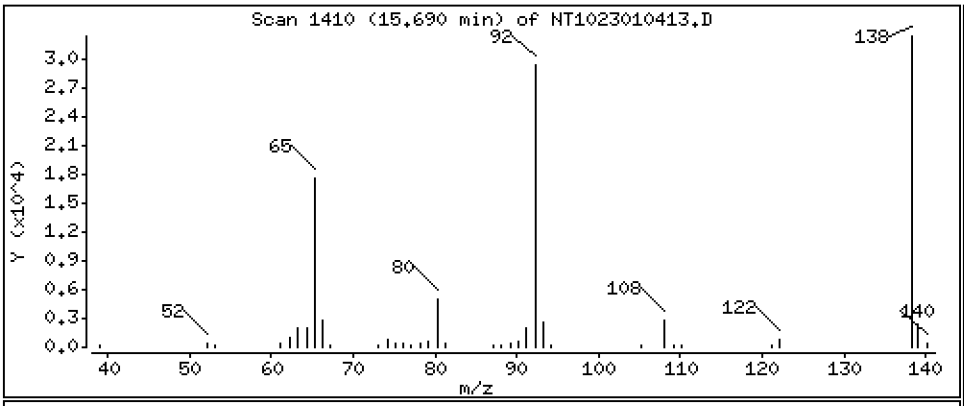
Operator: VTS

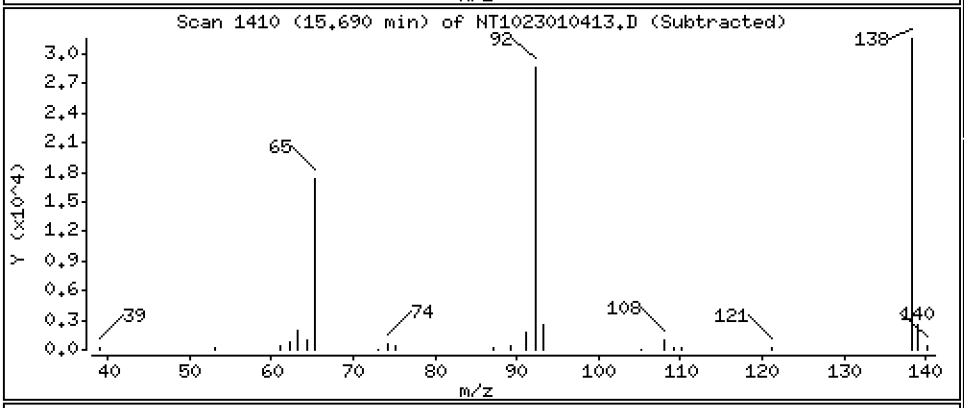
Column phase: ZB-5msi

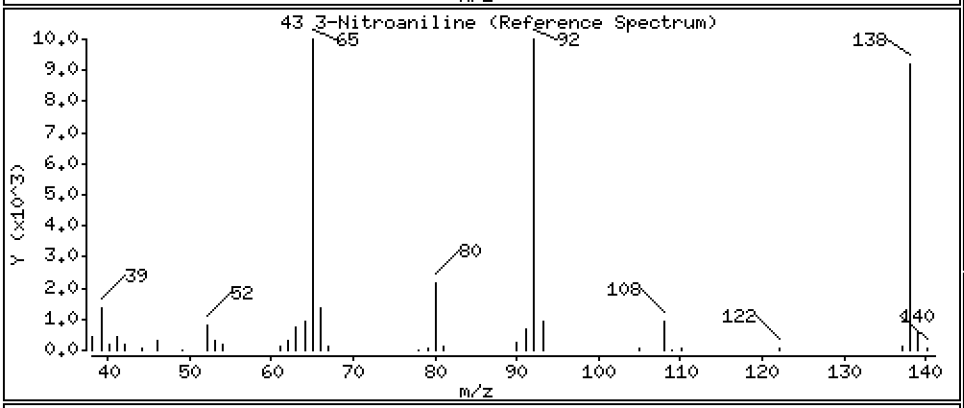
Column diameter: 0.25

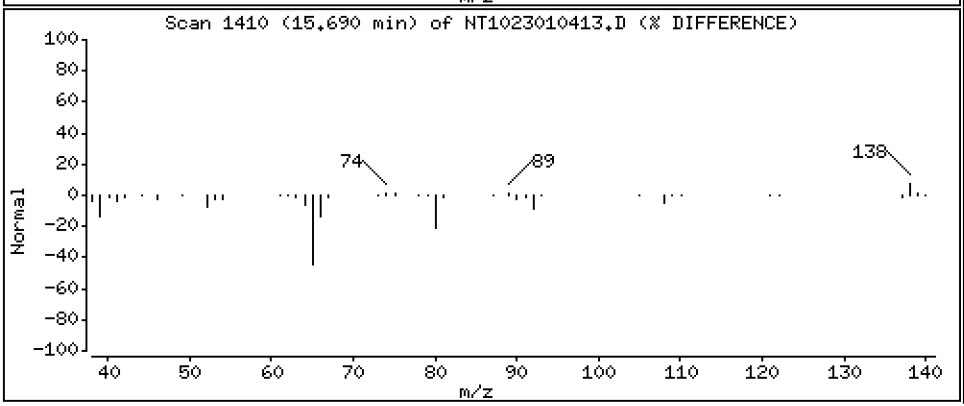
43 3-Nitroaniline

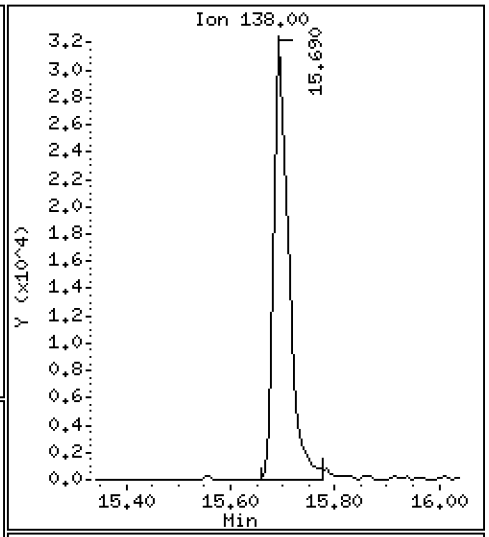
Concentration: 6.037 ug/mL

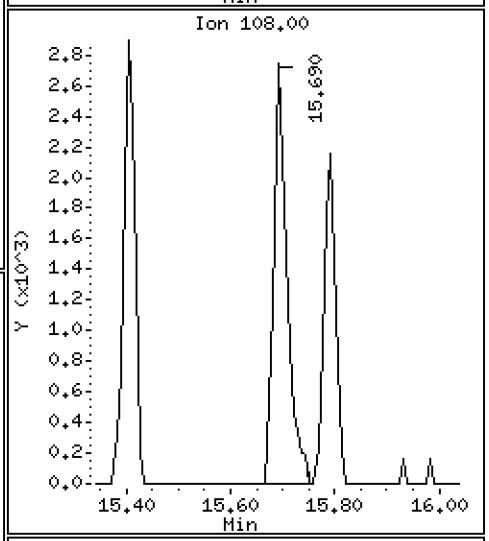


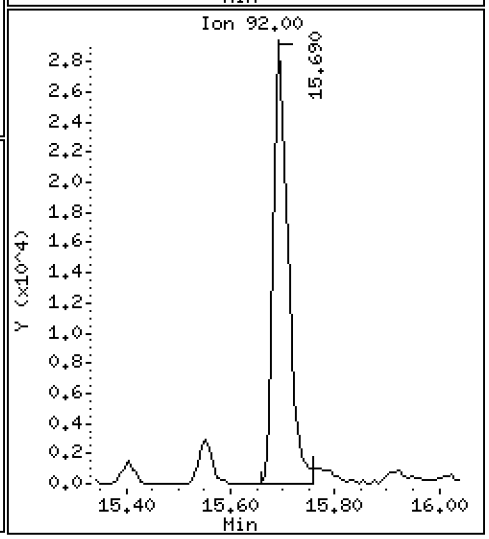












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

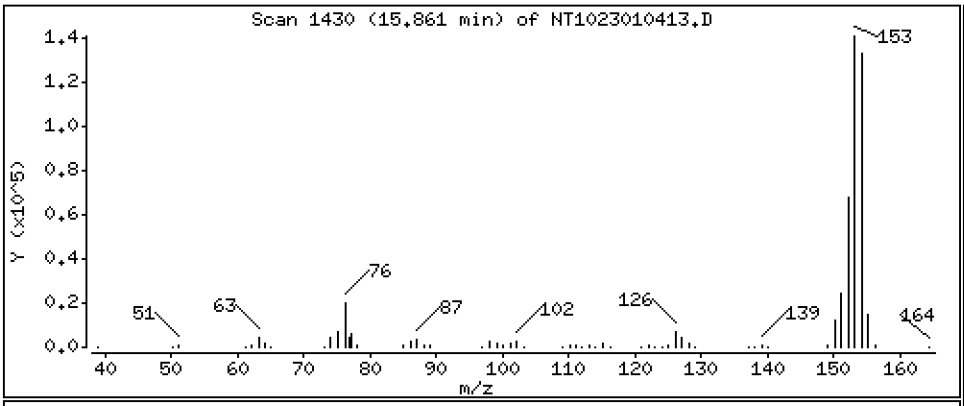
Operator: VTS

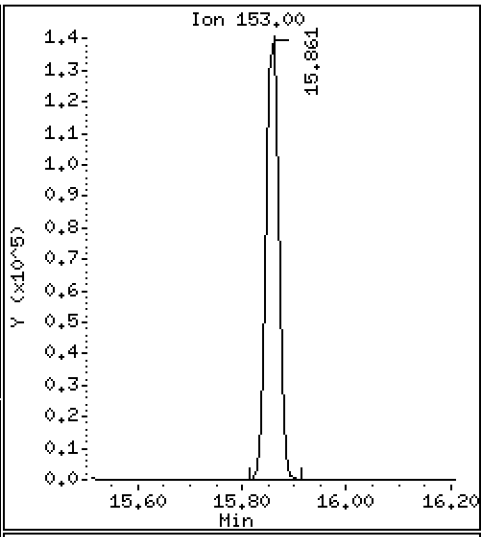
Column phase: ZB-5msi

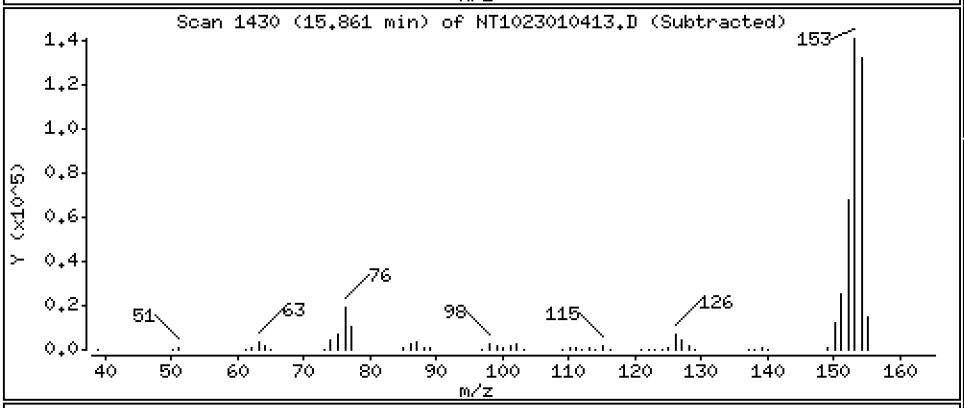
Column diameter: 0.25

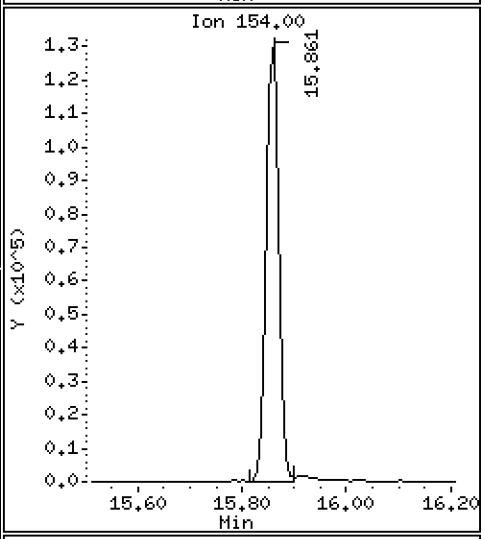
44 Acenaphthene

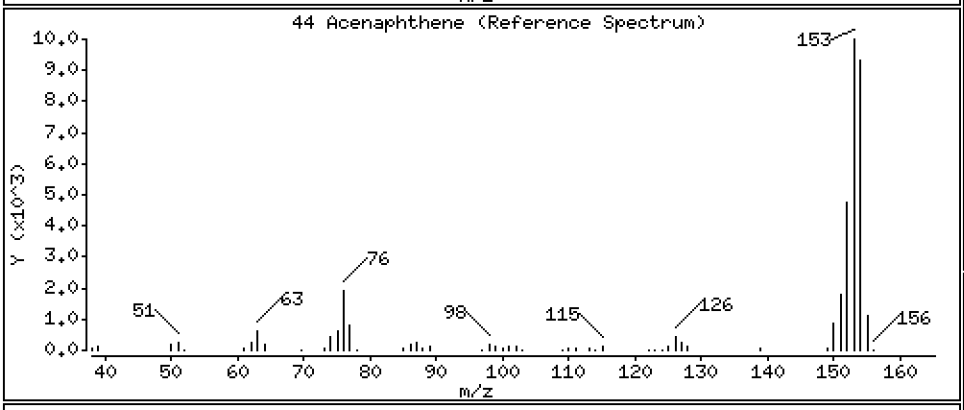
Concentration: 5.393 ug/mL

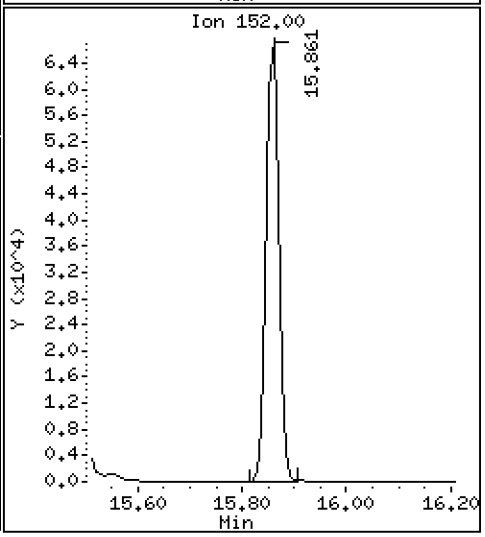


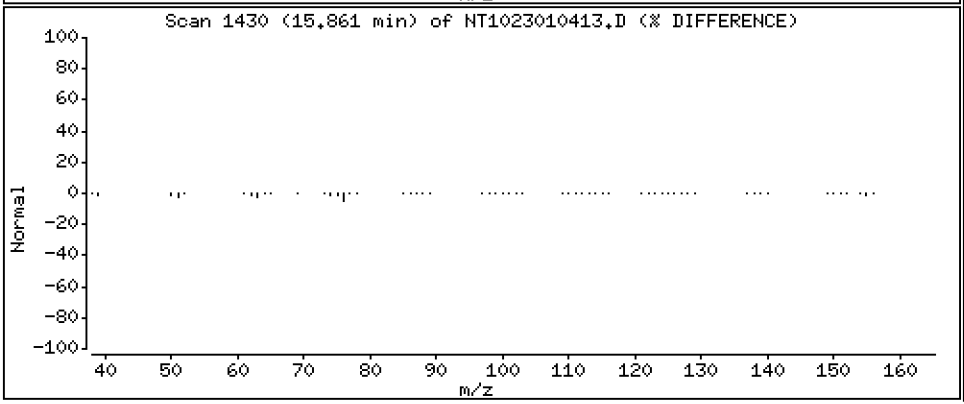












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

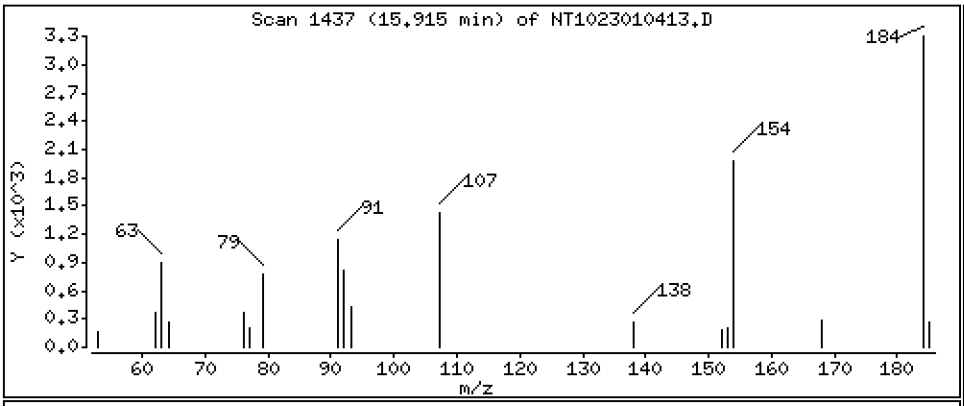
Operator: VTS

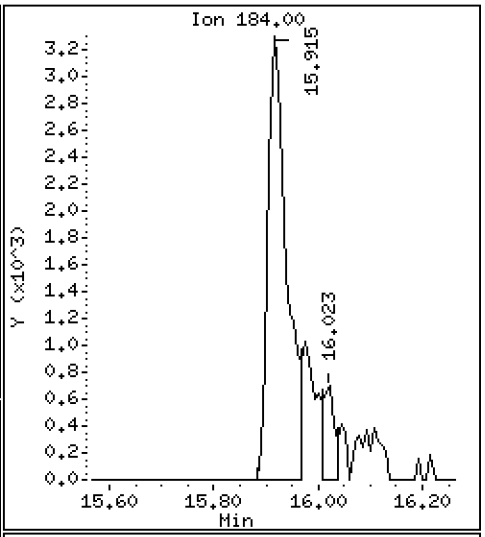
Column phase: ZB-5msi

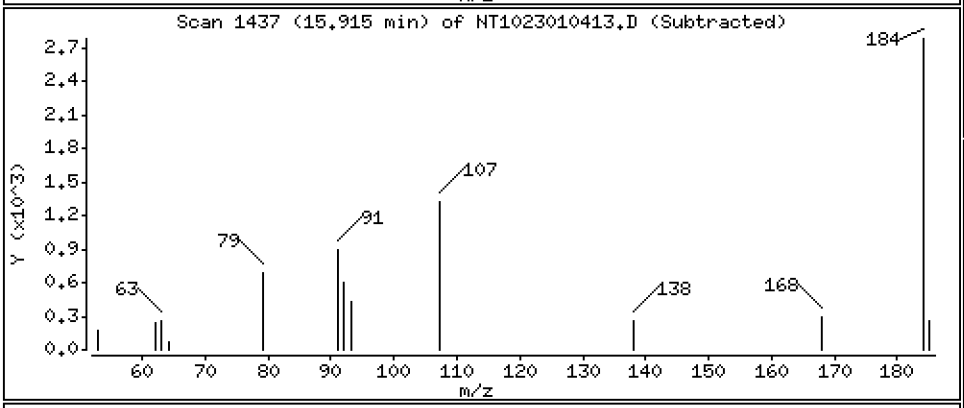
Column diameter: 0.25

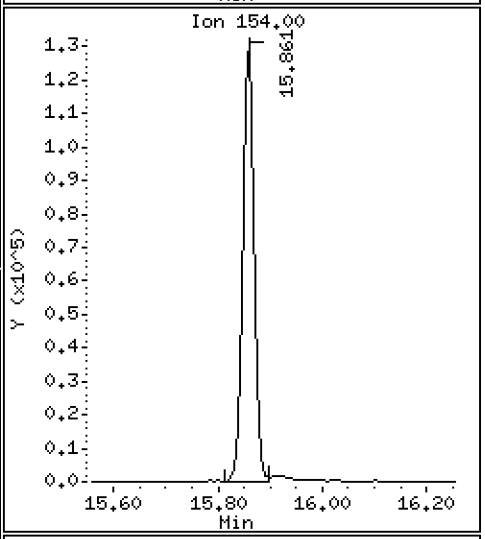
45 2,4-Dinitrophenol

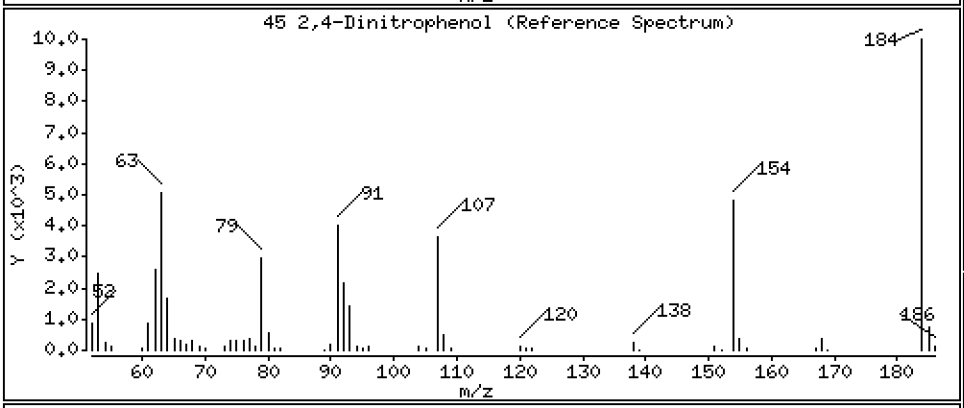
Concentration: 1.161 ug/mL

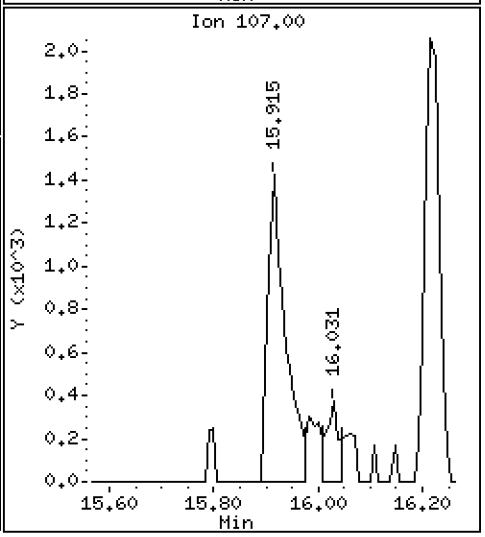


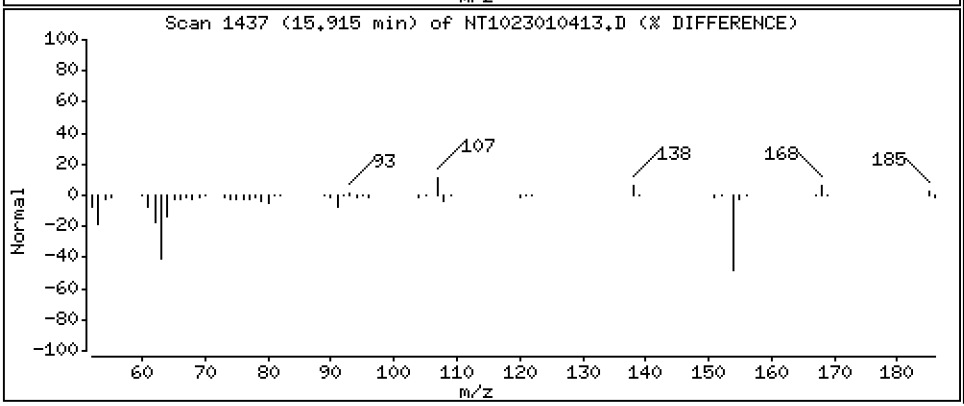












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

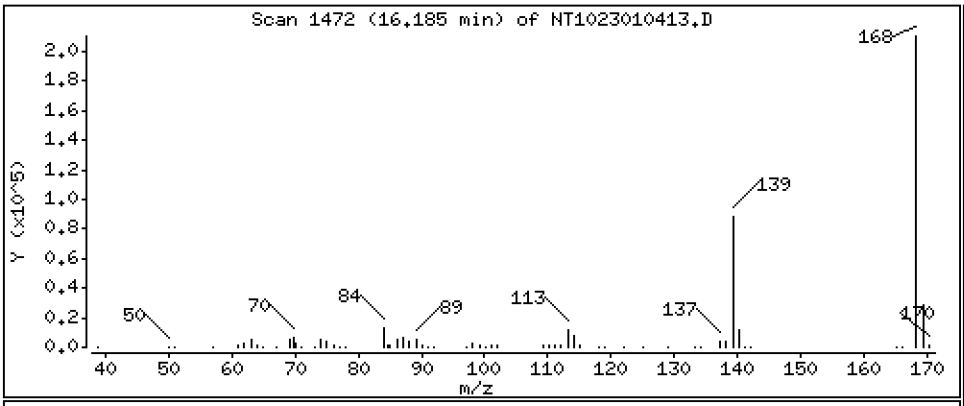
Operator: VTS

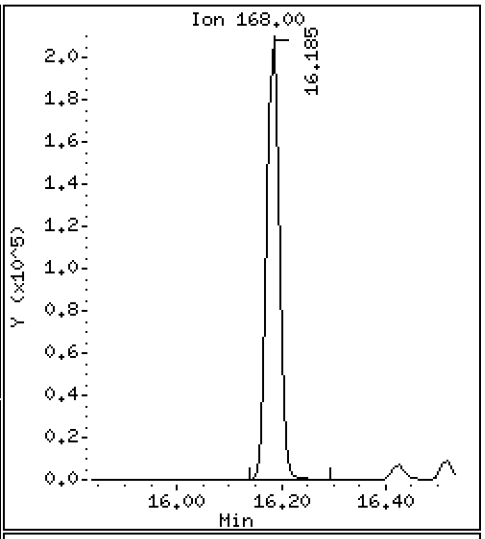
Column phase: ZB-5msi

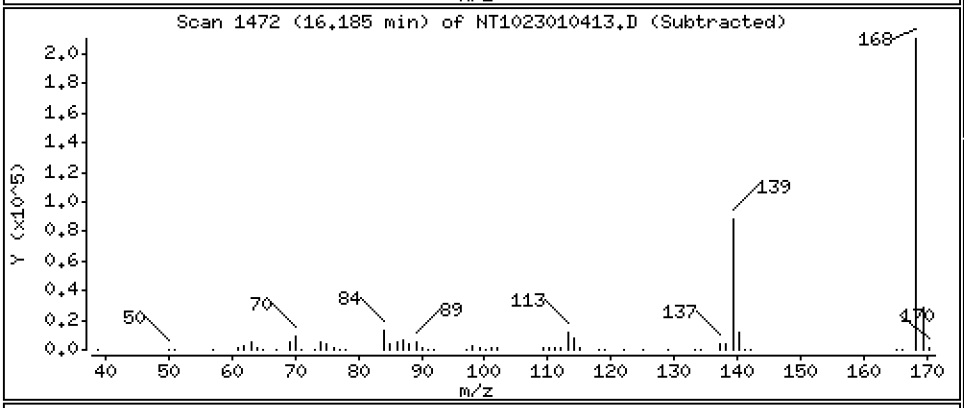
Column diameter: 0.25

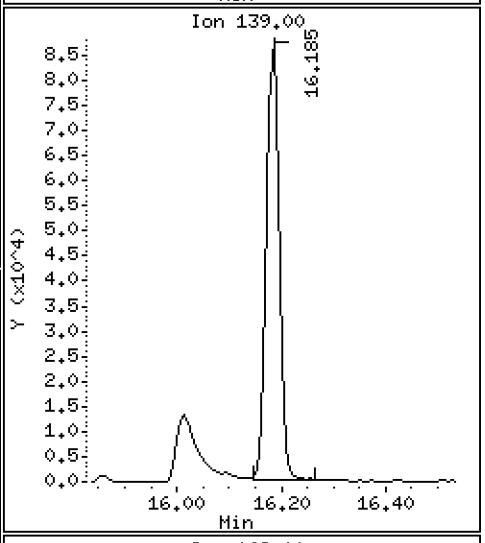
46 Dibenzofuran

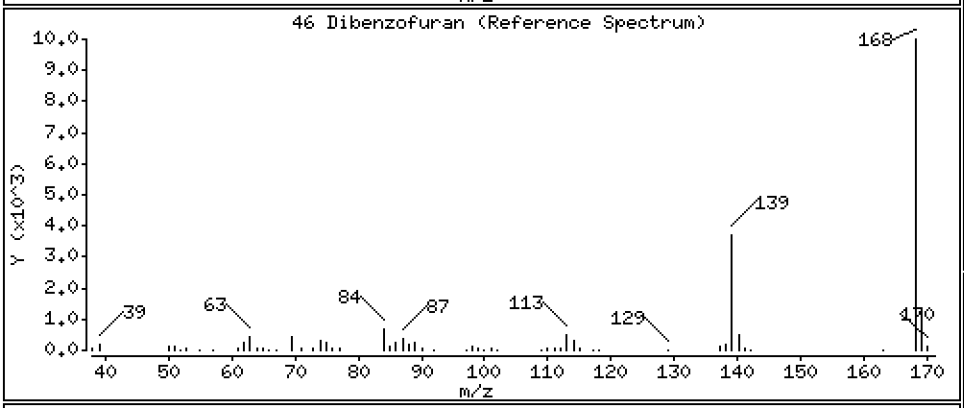
Concentration: 5.268 ug/mL

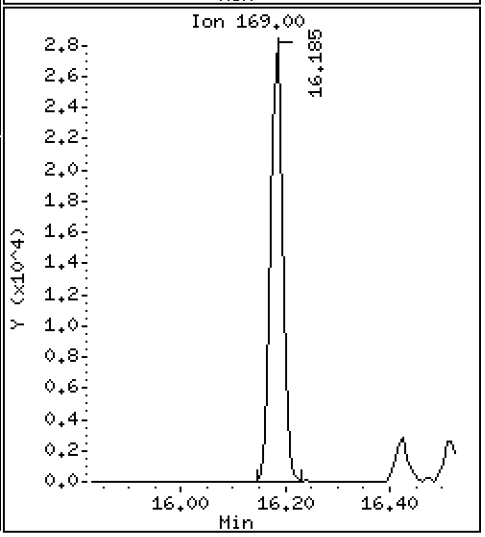


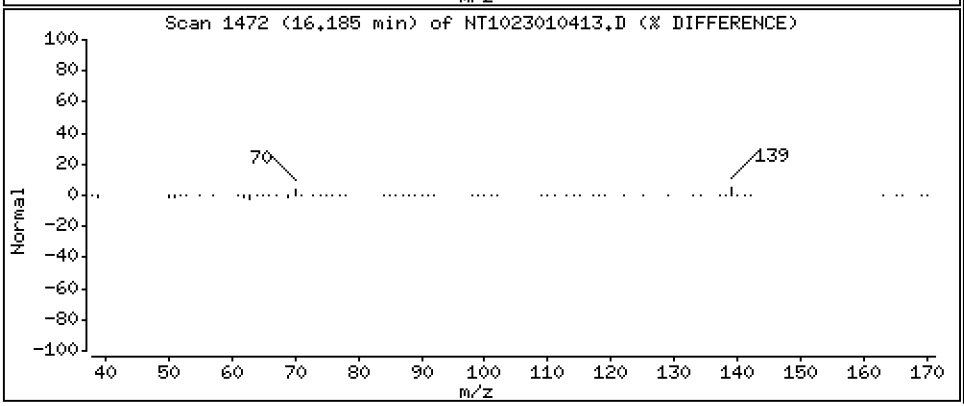












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

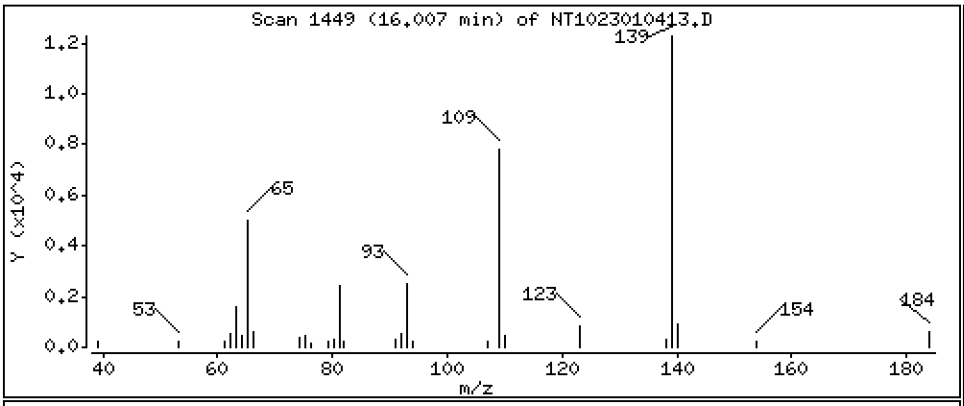
Operator: VTS

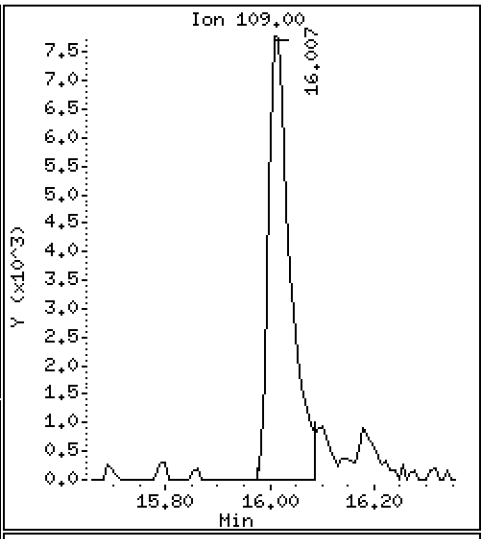
Column phase: ZB-5msi

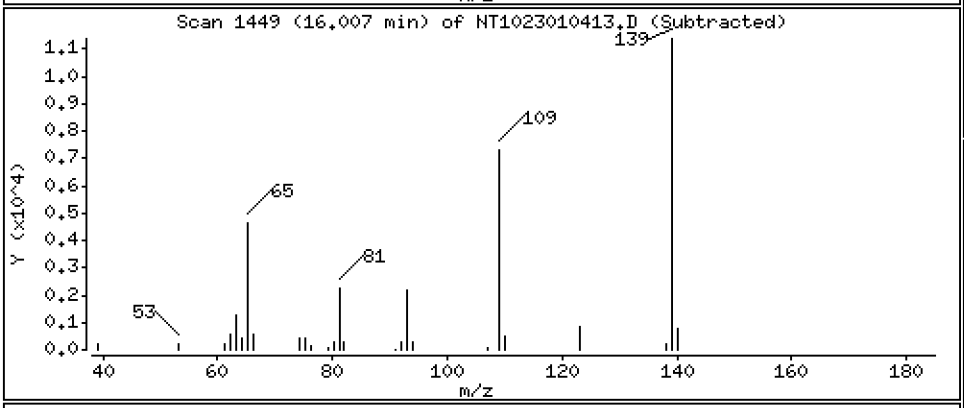
Column diameter: 0.25

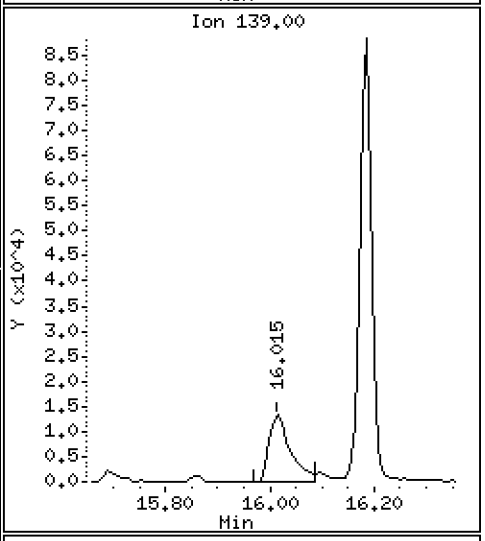
47 4-Nitrophenol

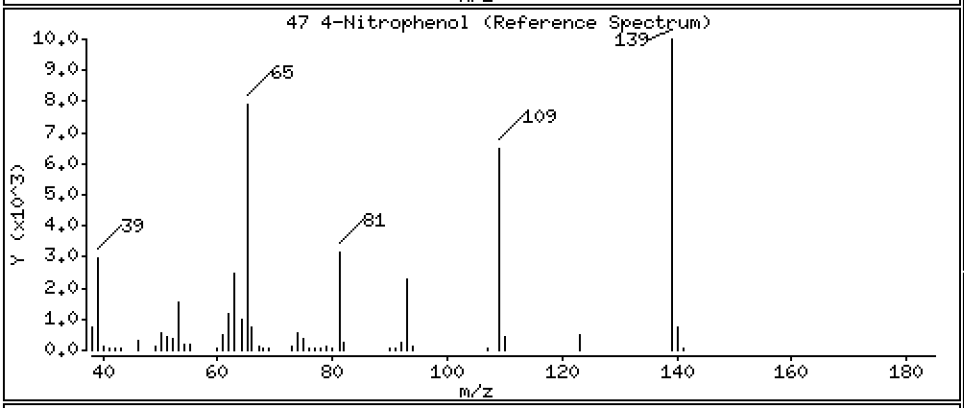
Concentration: 3.882 ug/mL

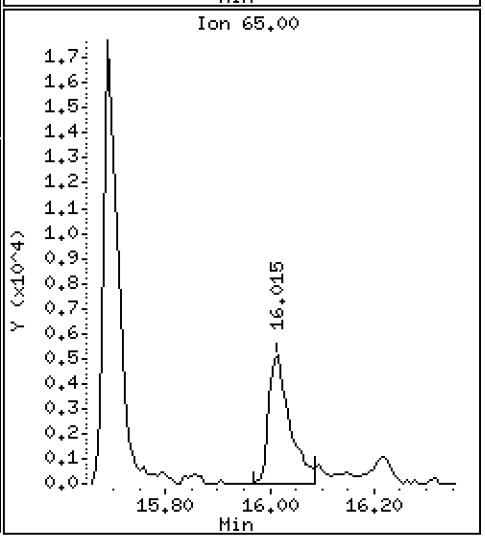


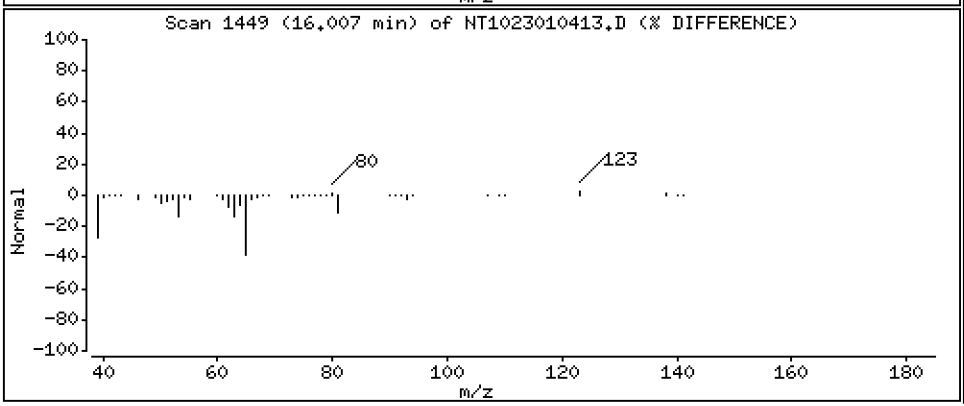












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

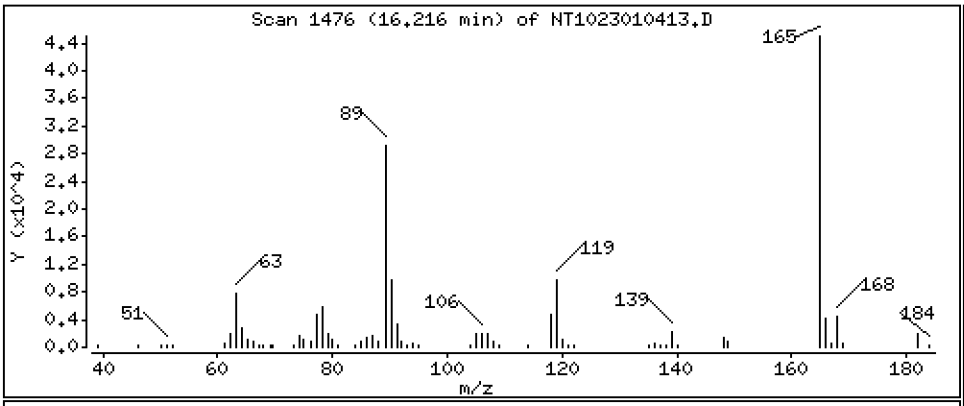
Operator: VTS

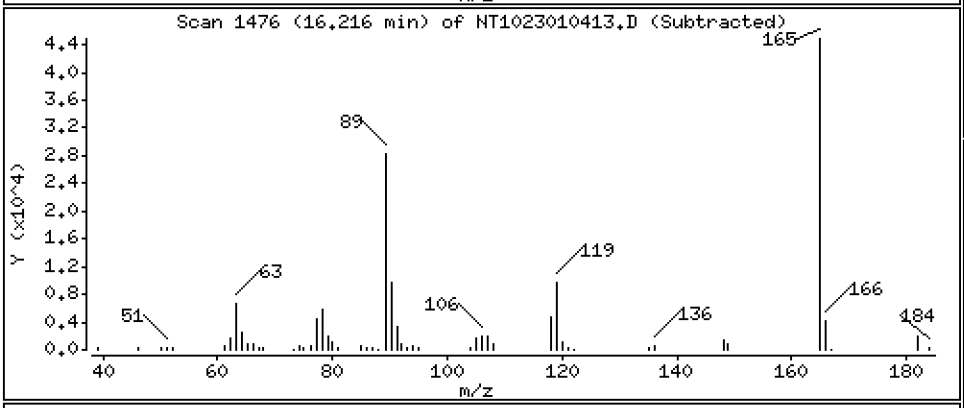
Column phase: ZB-5msi

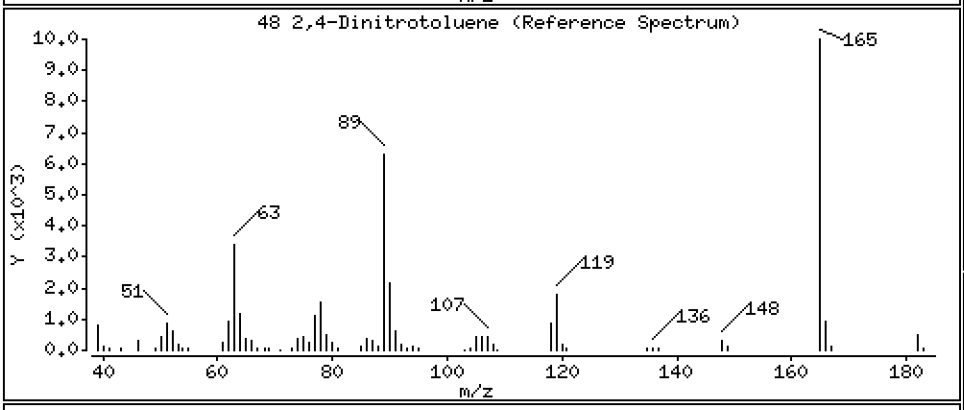
Column diameter: 0.25

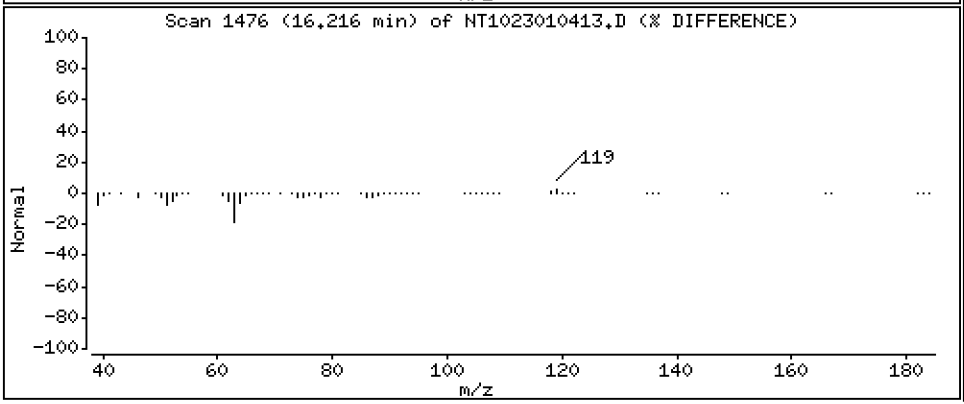
48 2,4-Dinitrotoluene

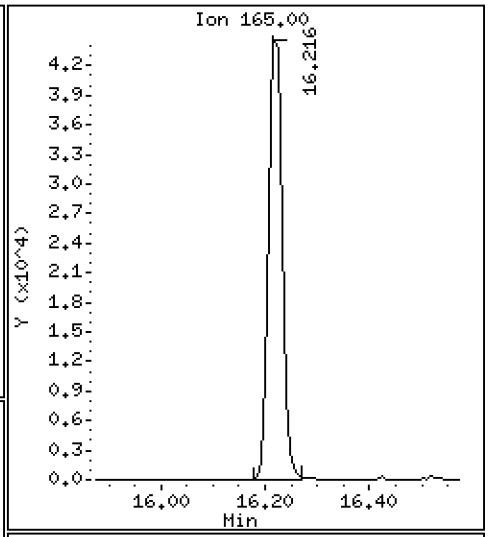
Concentration: 5.337 ug/mL

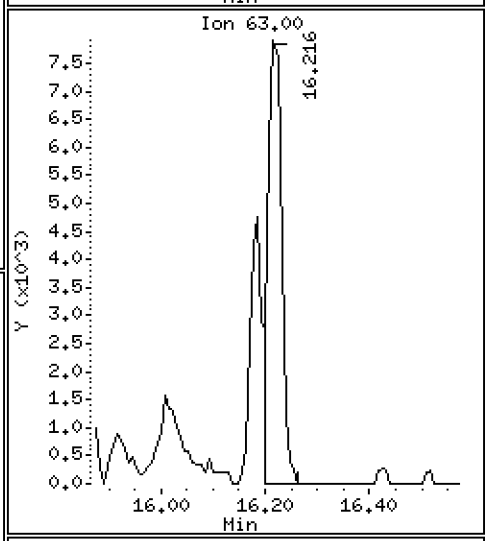


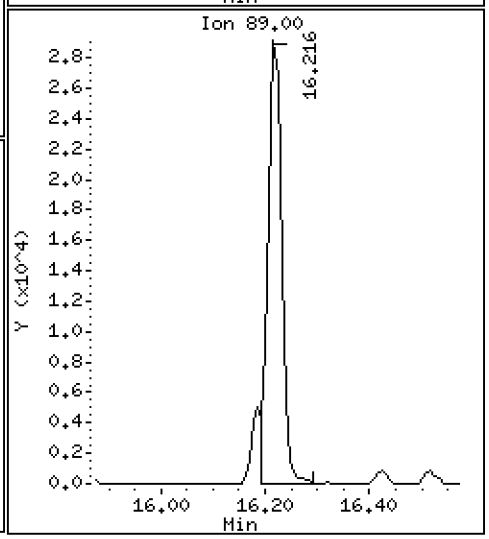












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

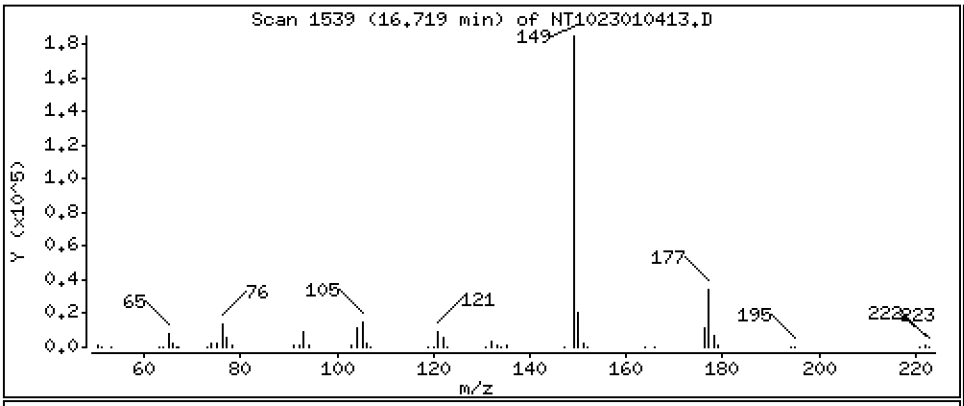
Operator: VTS

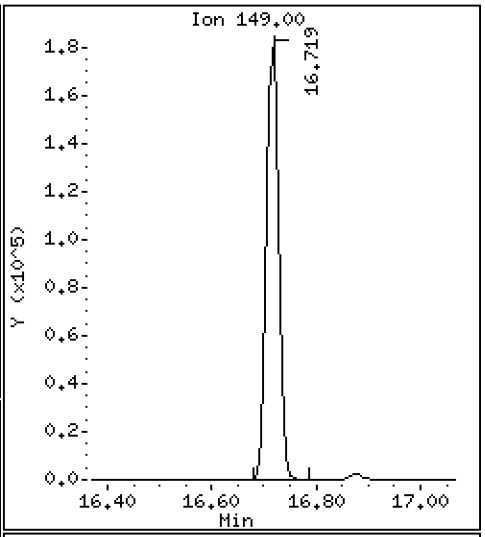
Column phase: ZB-5msi

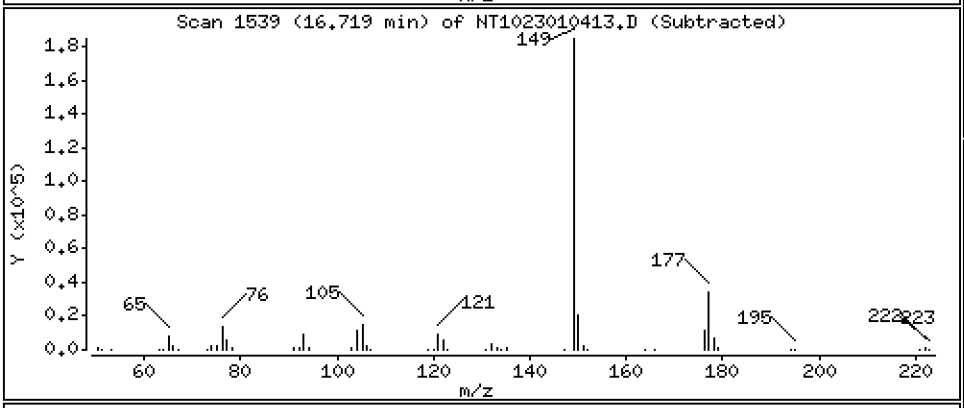
Column diameter: 0.25

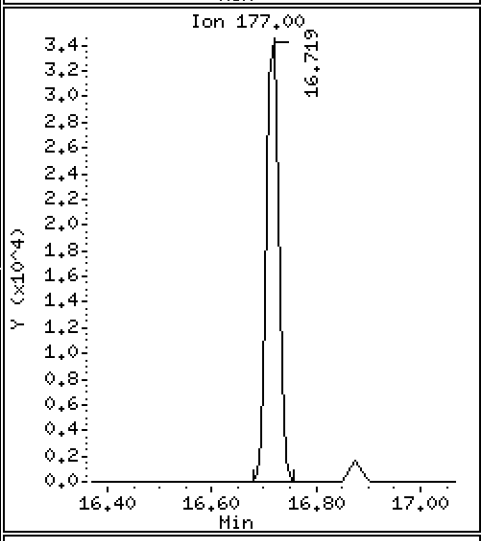
50 Diethylphthalate

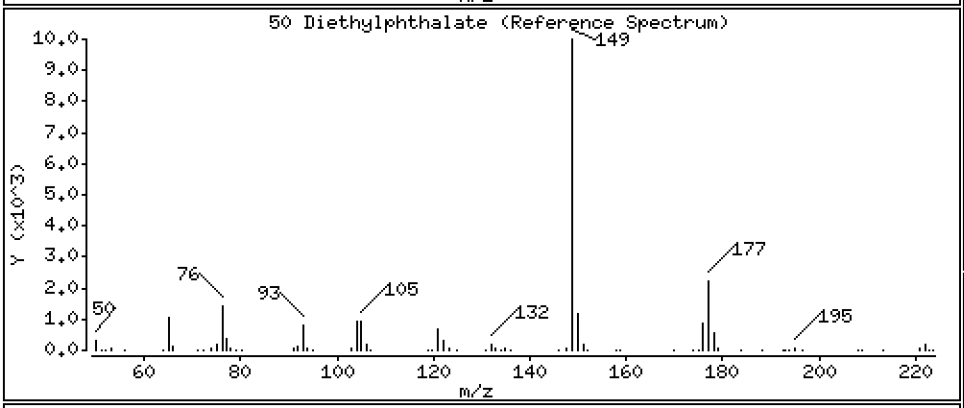
Concentration: 5.604 ug/mL

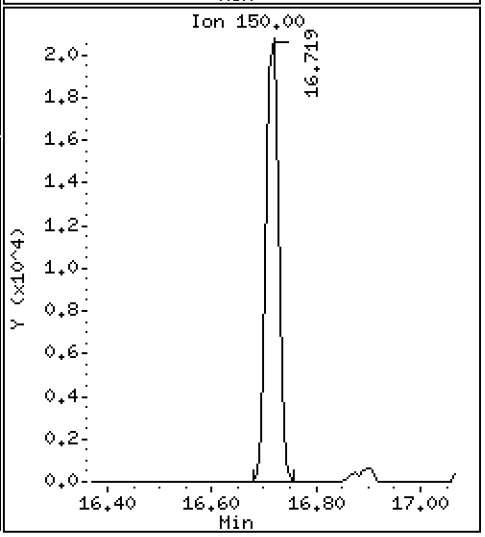


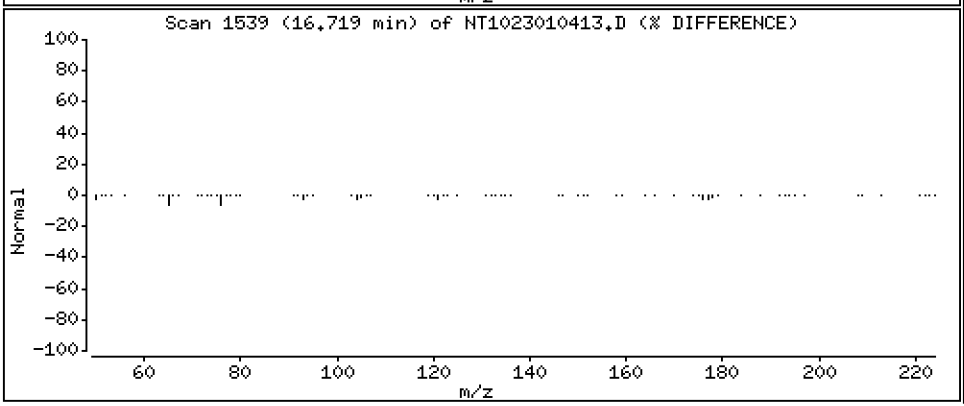












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

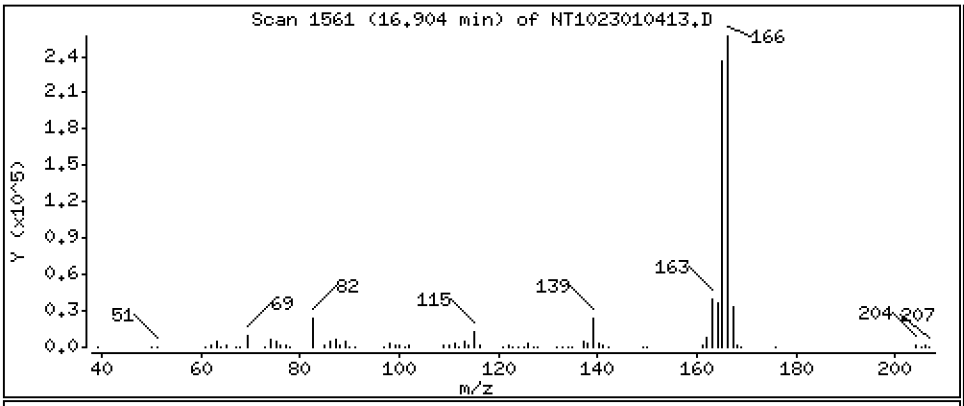
Operator: VTS

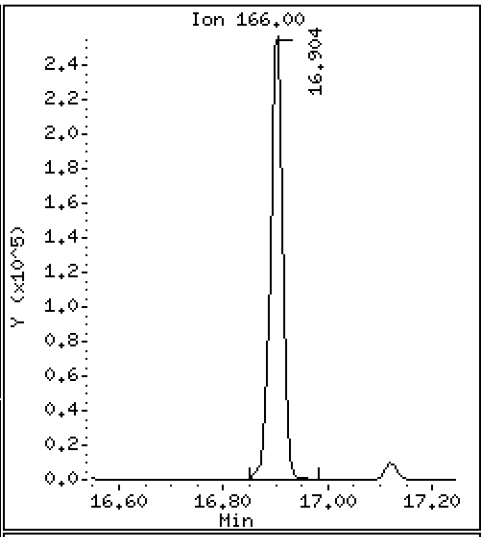
Column phase: ZB-5msi

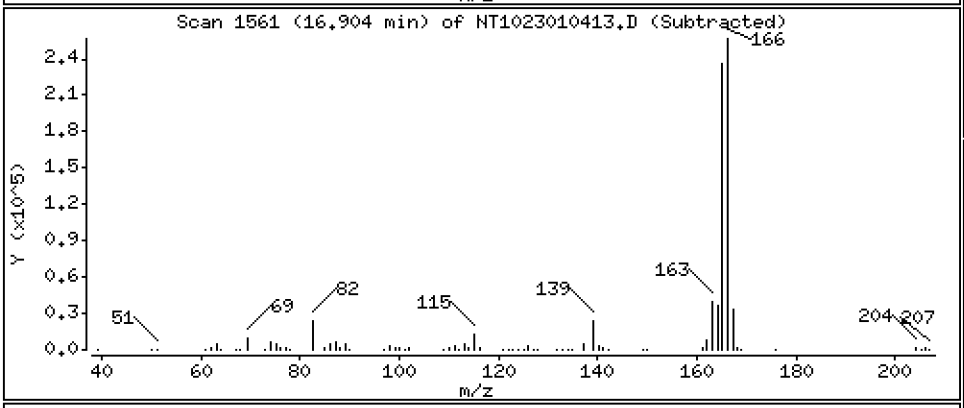
Column diameter: 0.25

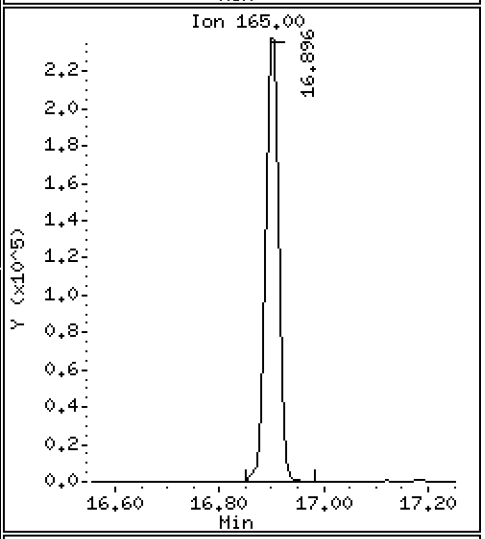
49 Fluorene

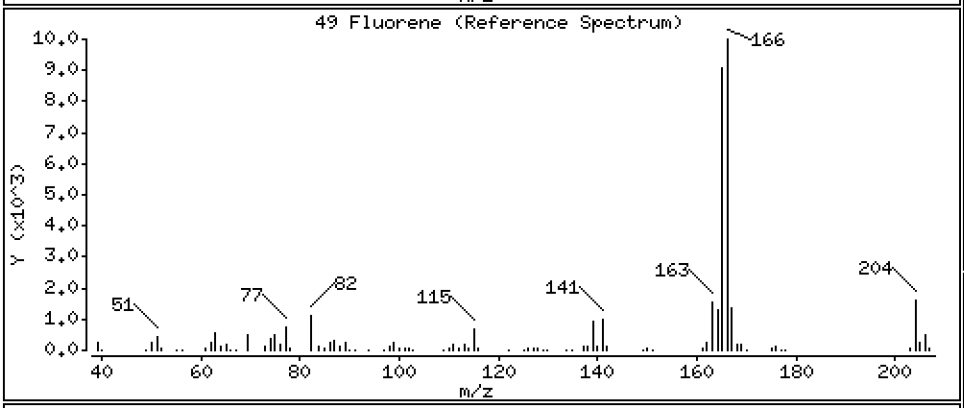
Concentration: 5.127 ug/mL

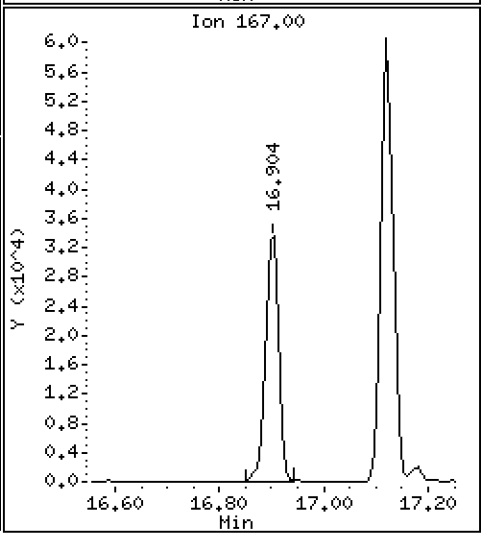


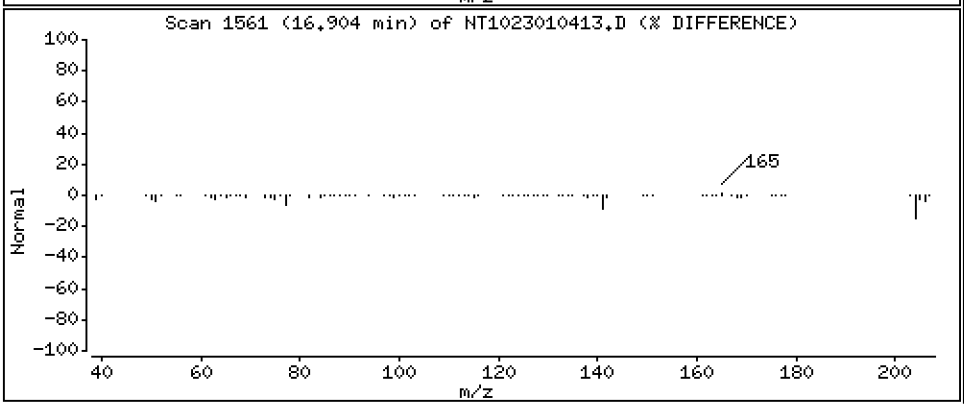












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

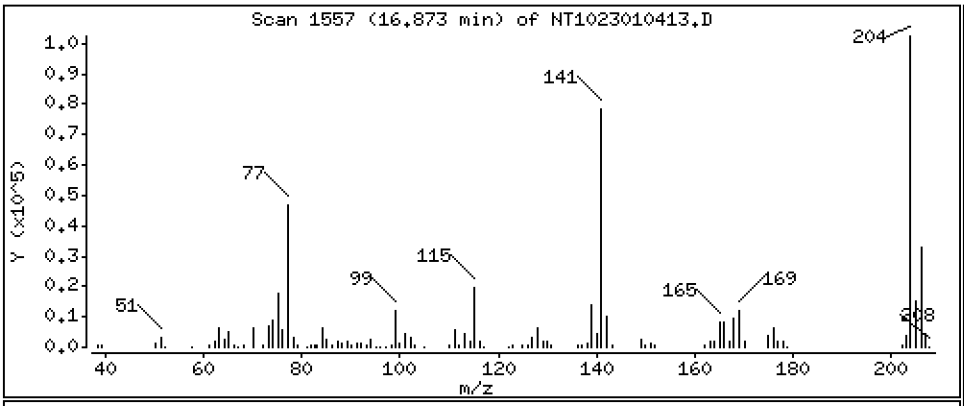
Operator: VTS

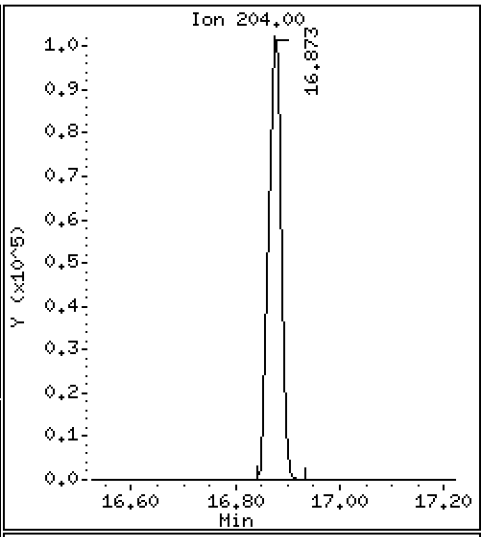
Column phase: ZB-5msi

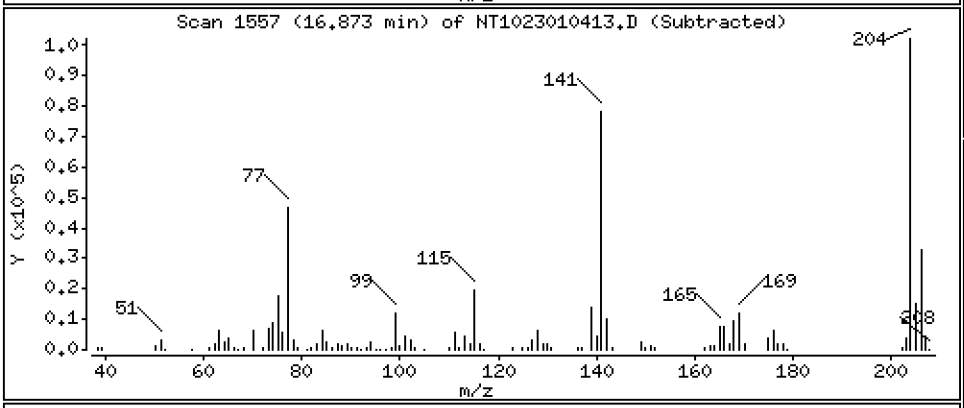
Column diameter: 0.25

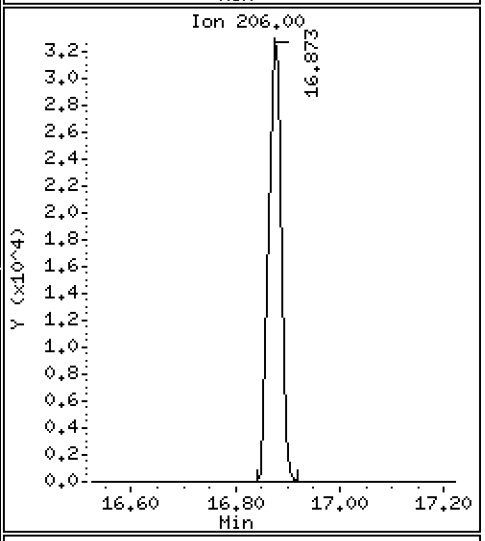
51 4-Chlorophenyl-phenylether

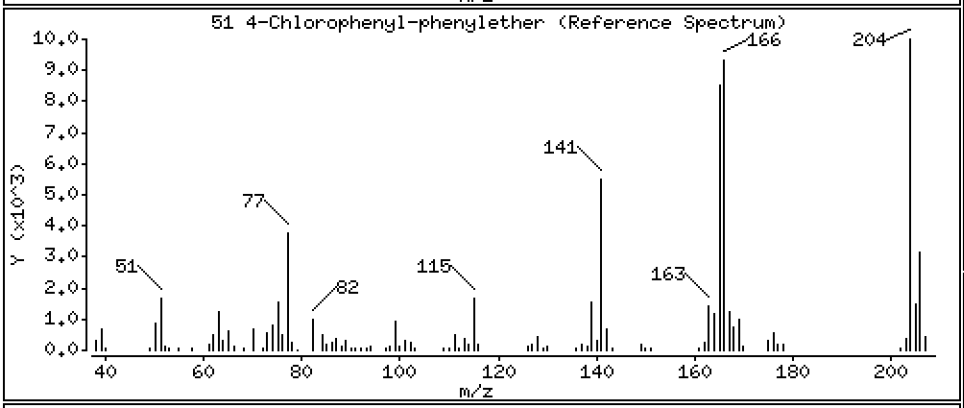
Concentration: 4.890 ug/mL

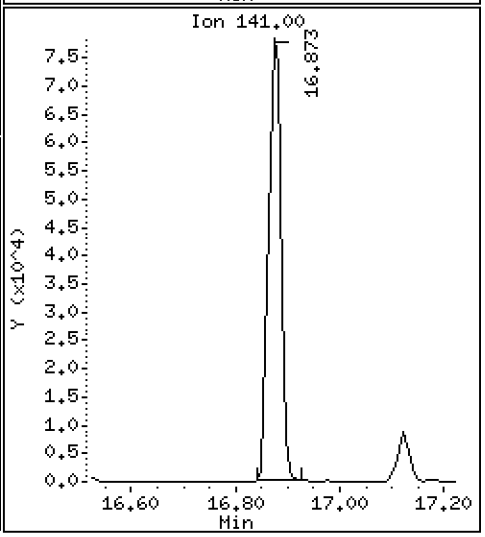


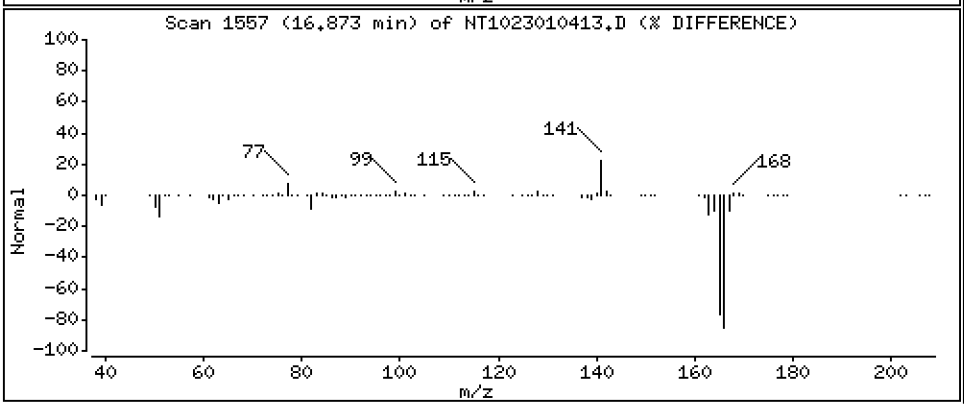












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

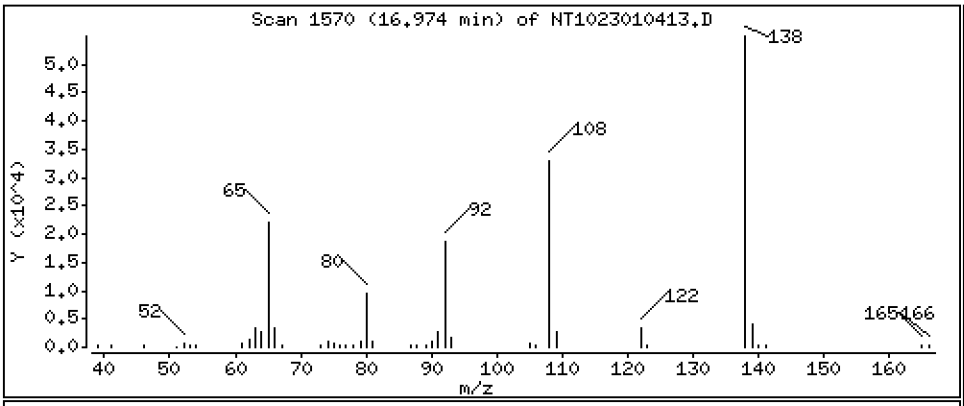
Operator: VTS

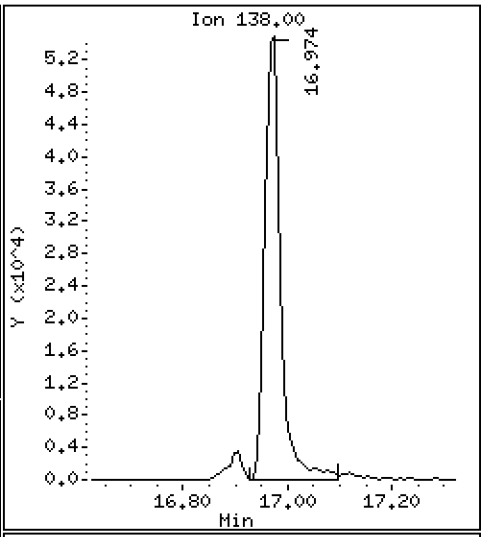
Column phase: ZB-5msi

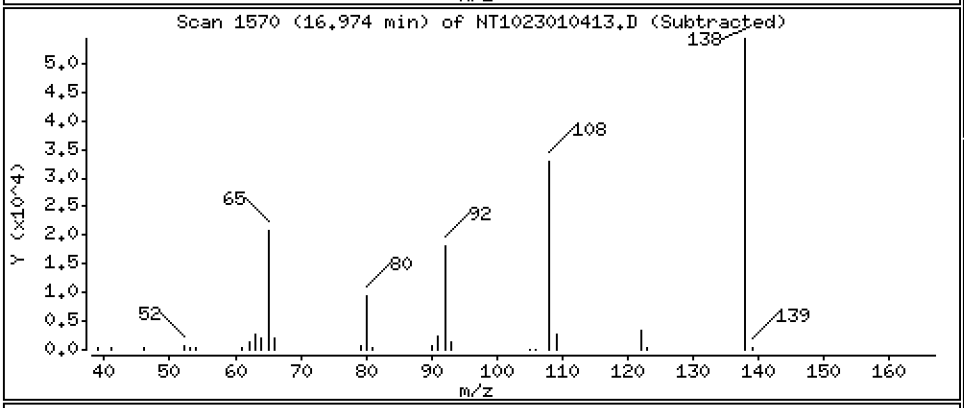
Column diameter: 0.25

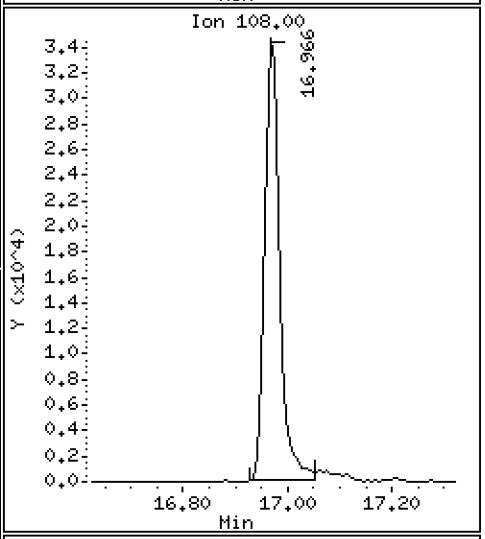
52 4-Nitroaniline

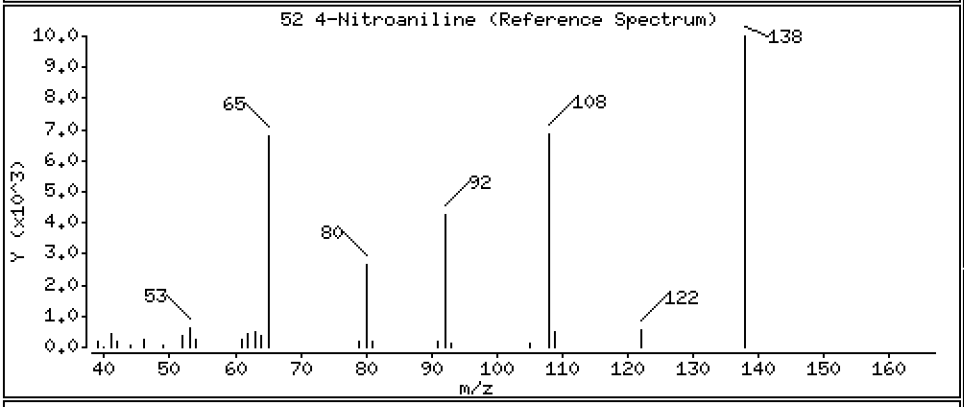
Concentration: 5.363 ug/mL

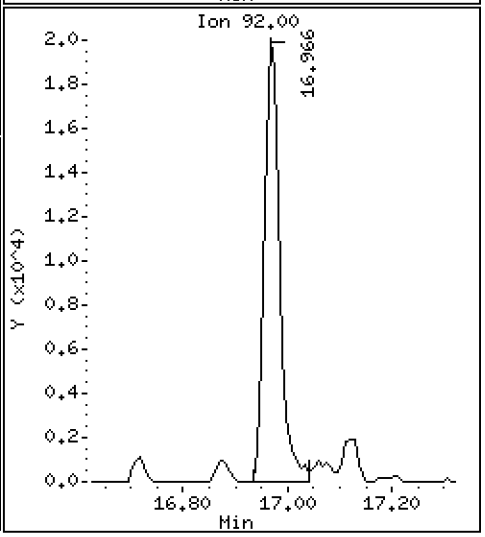


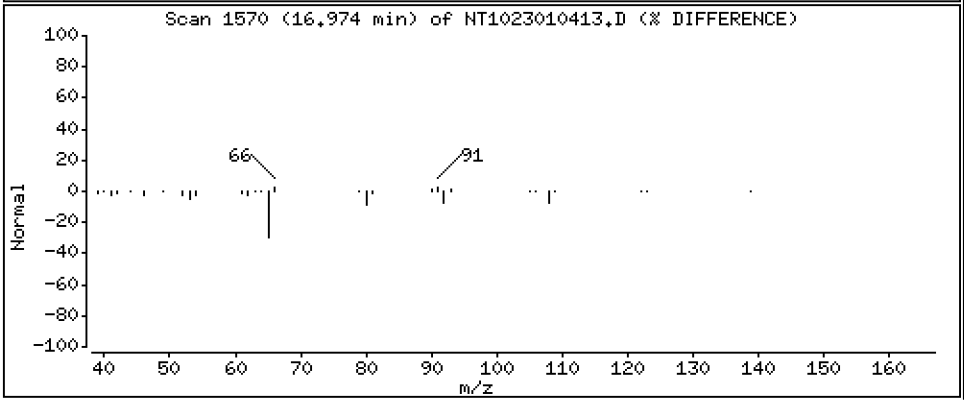












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

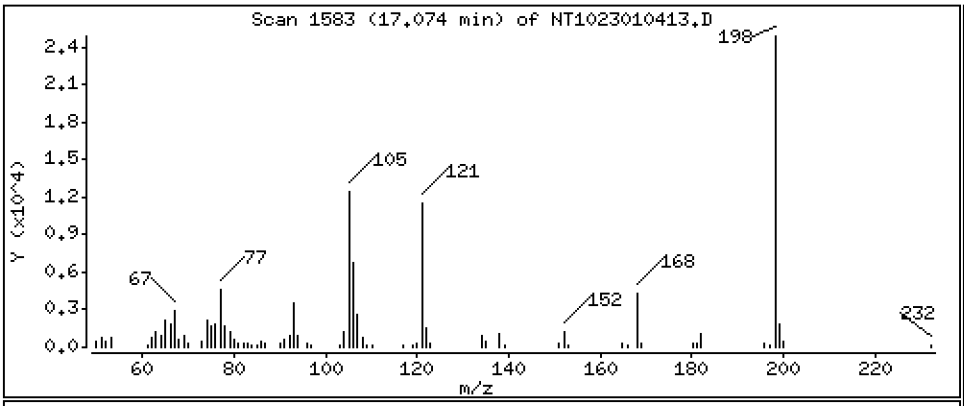
Operator: VTS

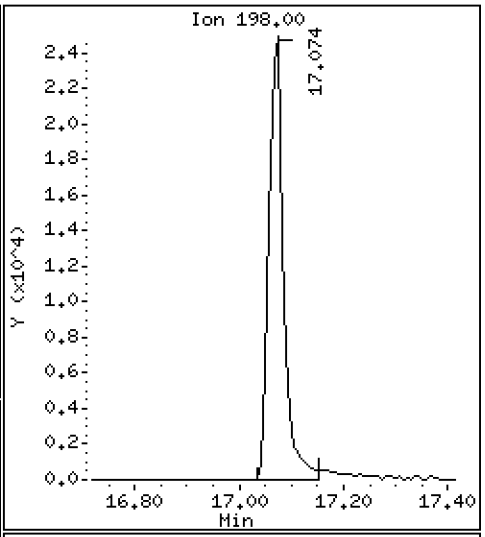
Column phase: ZB-5msi

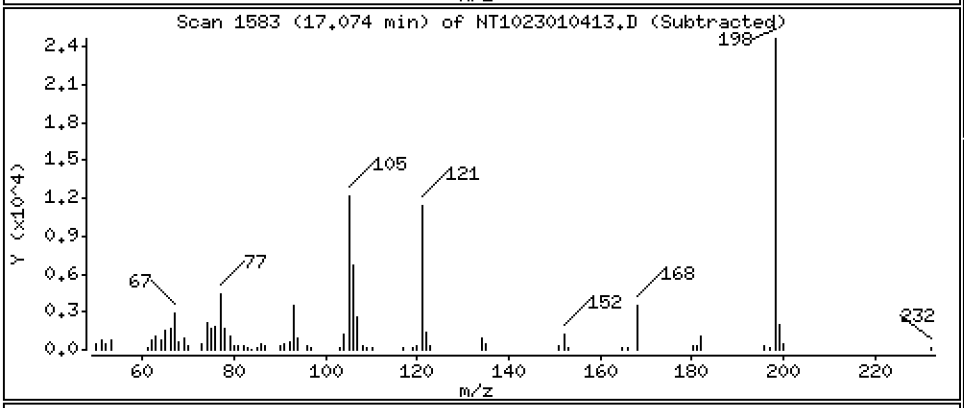
Column diameter: 0.25

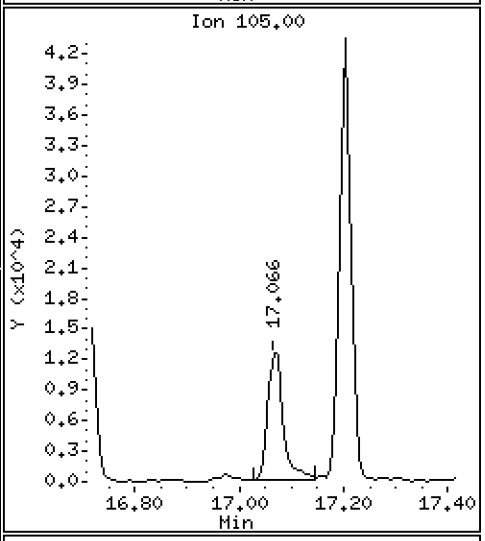
53 4,6-Dinitro-2-methylphenol

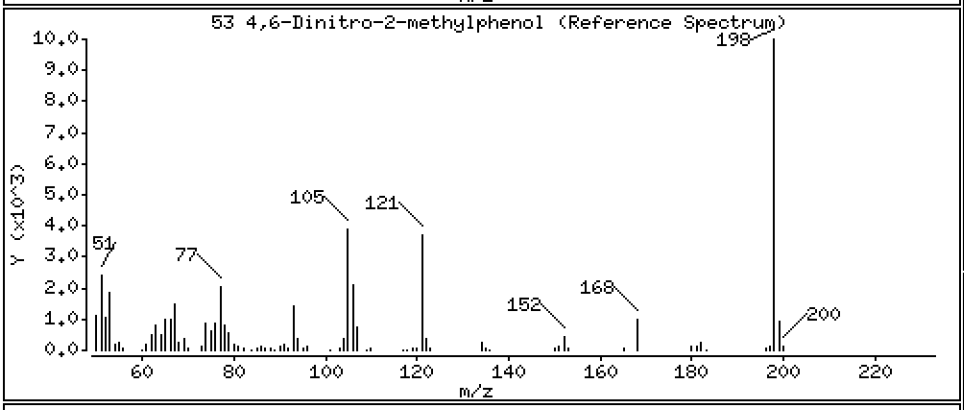
Concentration: 3.808 ug/mL

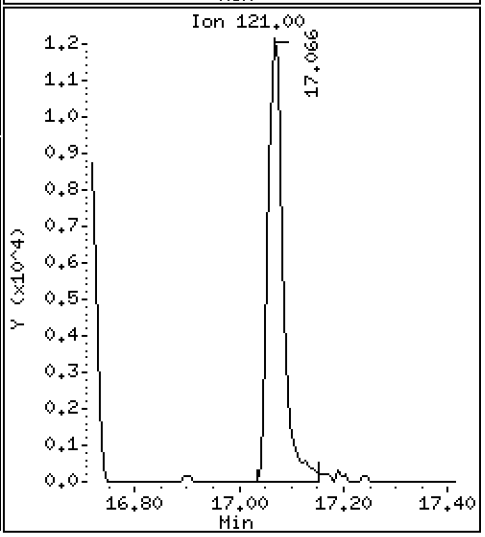


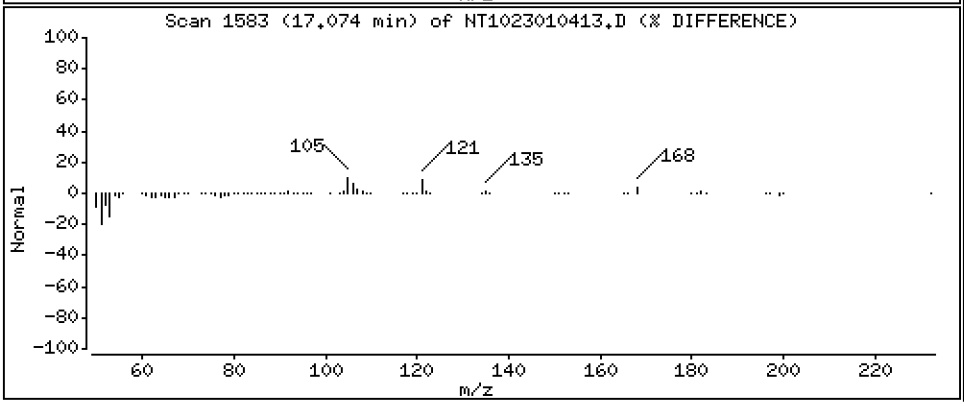












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

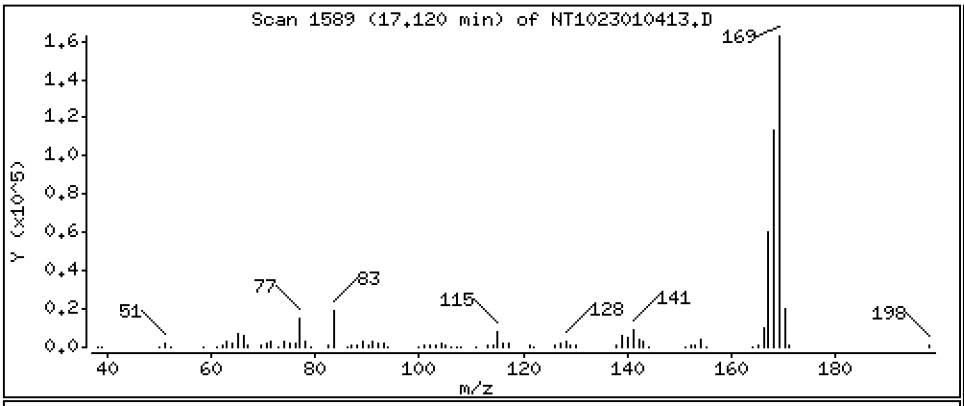
Operator: VTS

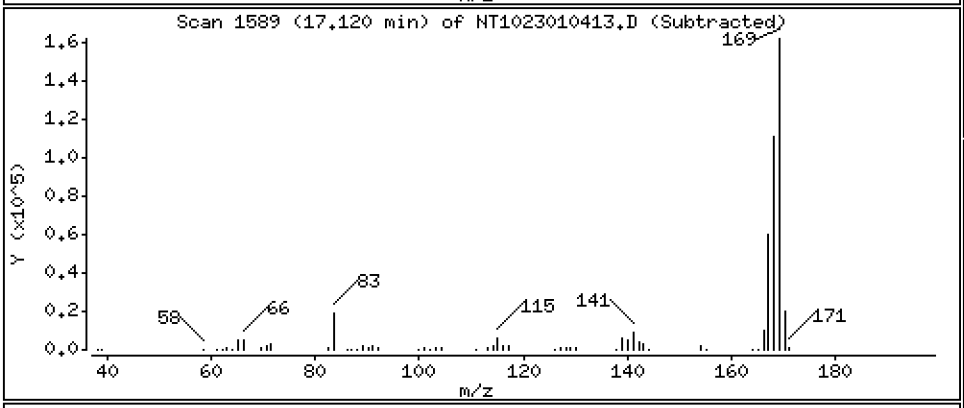
Column phase: ZB-5msi

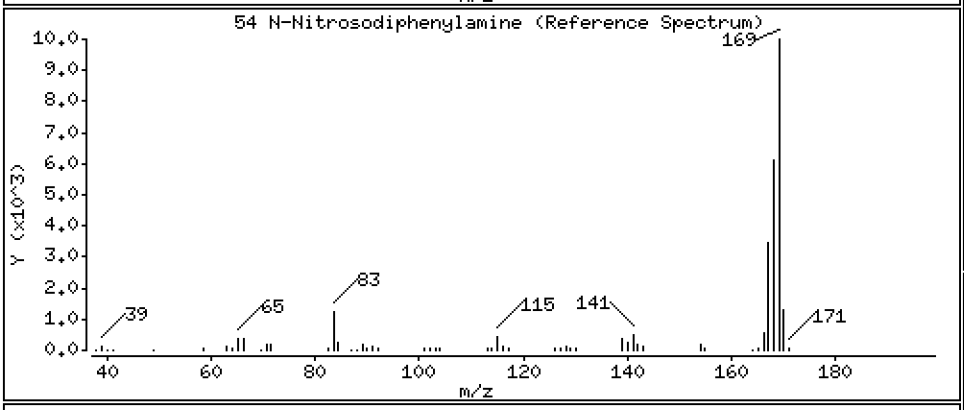
Column diameter: 0.25

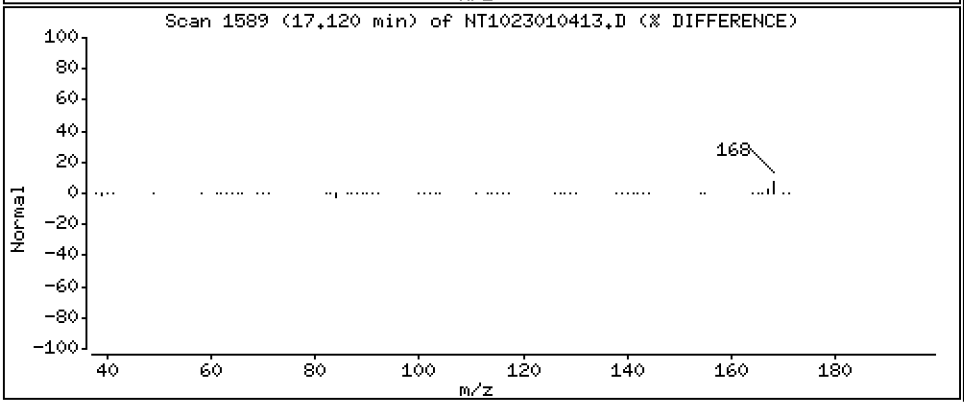
54 N-Nitrosodiphenylamine

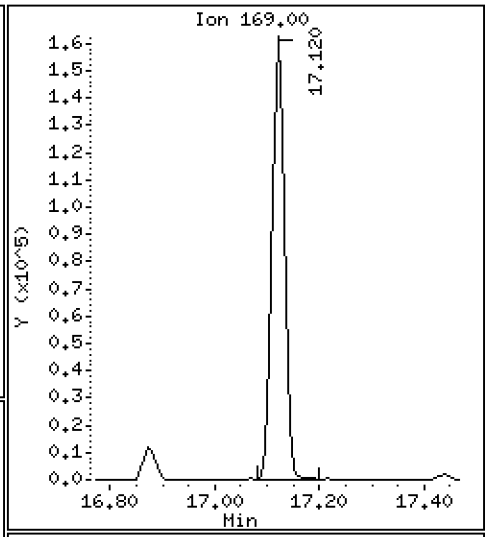
Concentration: 4.692 ug/mL

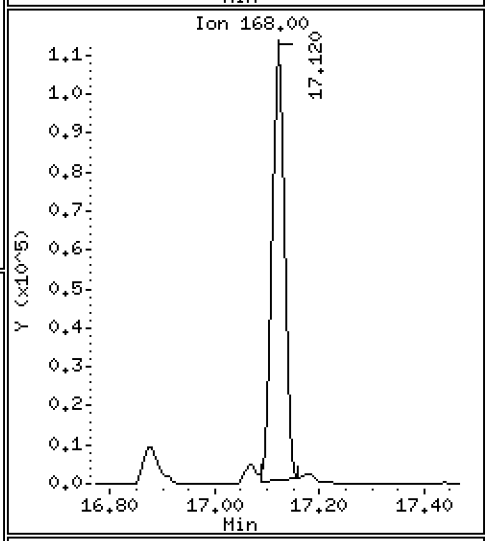


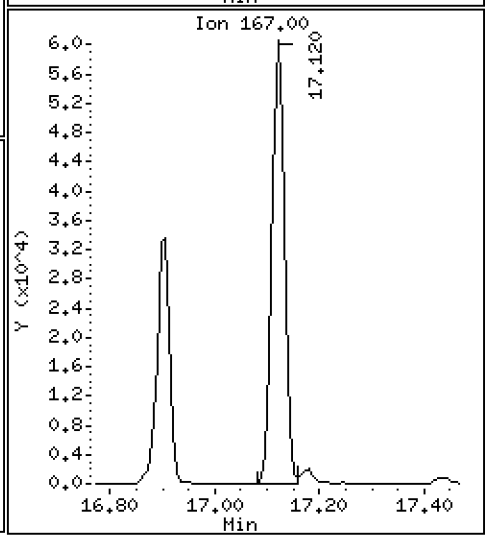












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

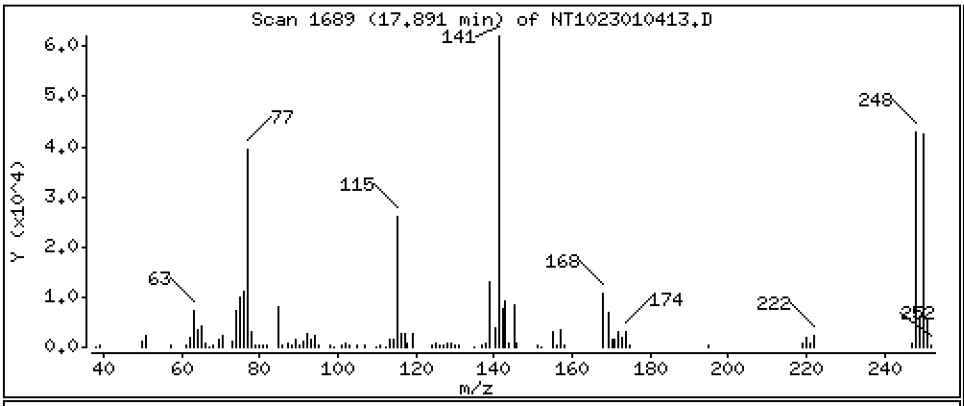
Operator: VTS

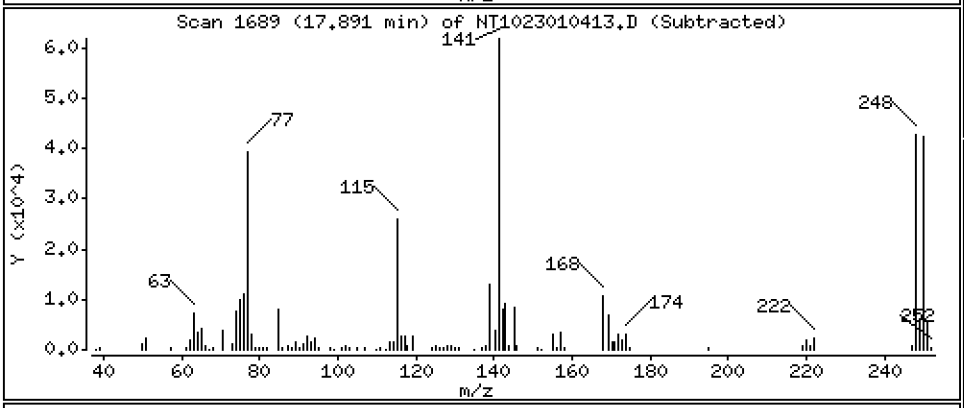
Column phase: ZB-5msi

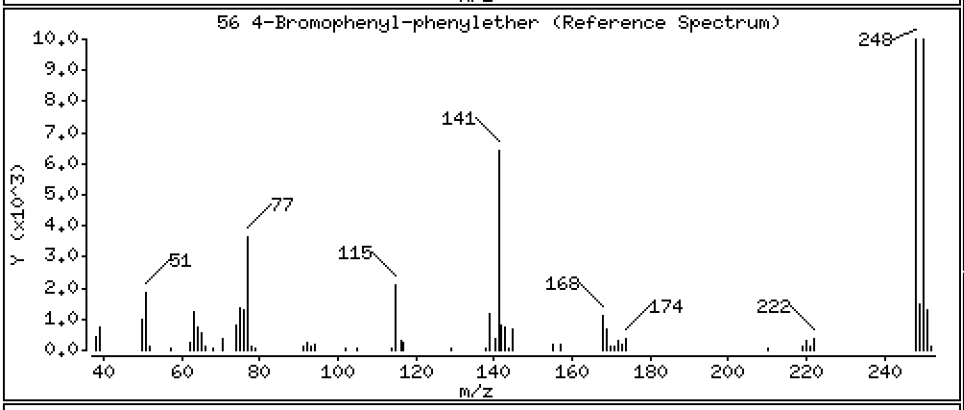
Column diameter: 0.25

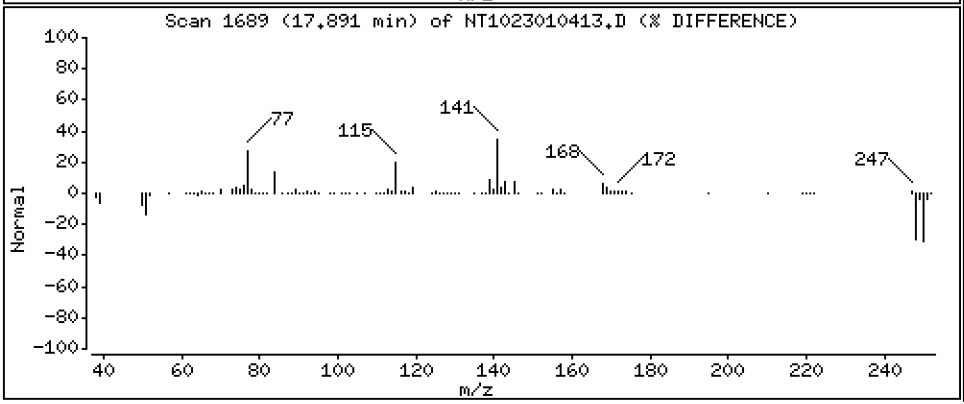
56 4-Bromophenyl-phenylether

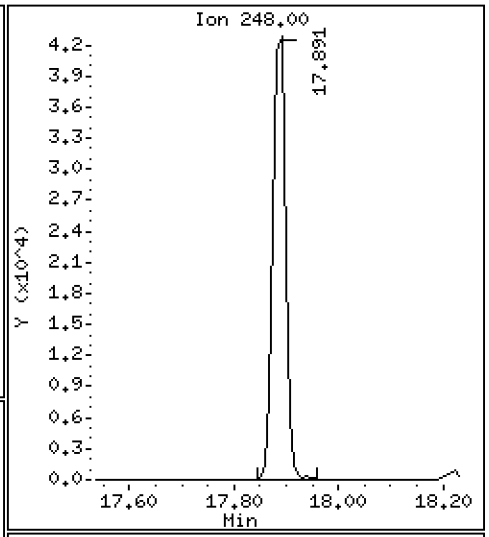
Concentration: 4.854 ug/mL

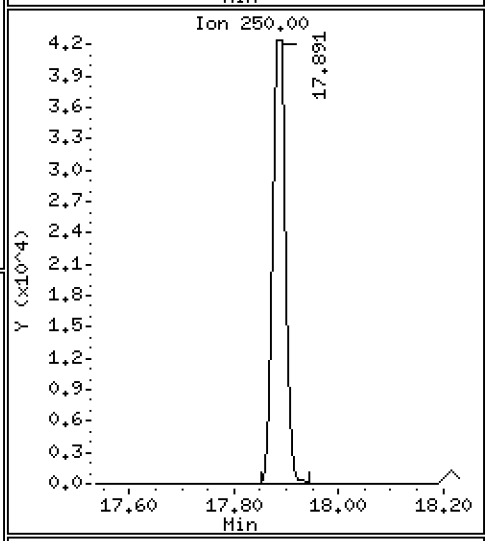


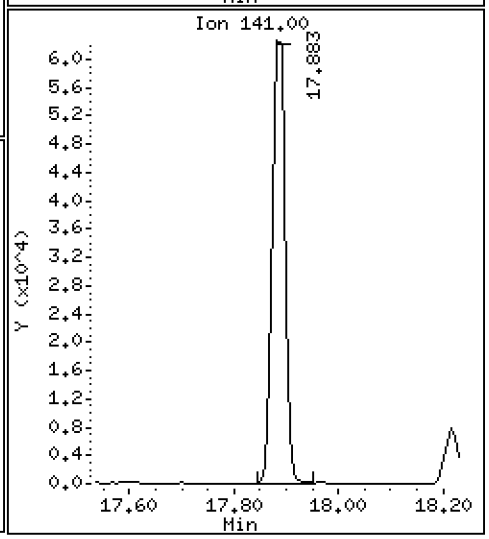












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

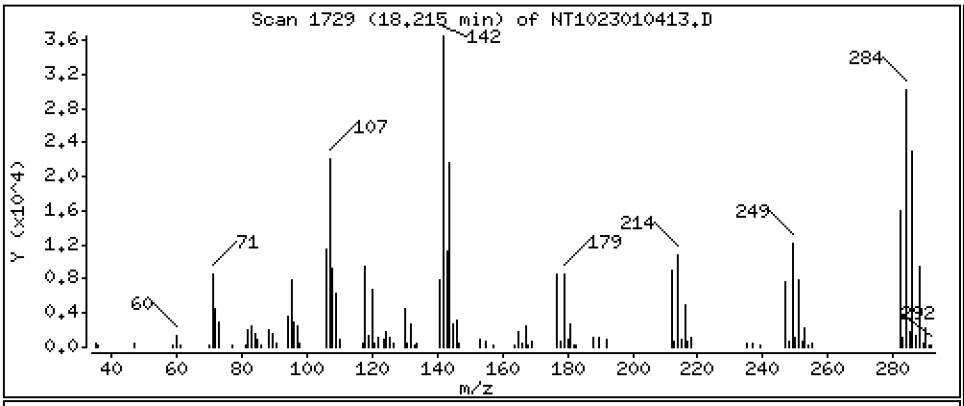
Operator: VTS

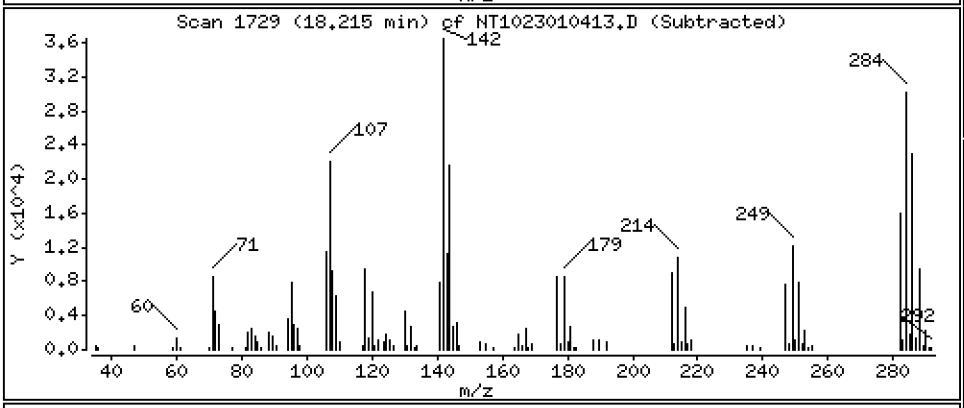
Column phase: ZB-5msi

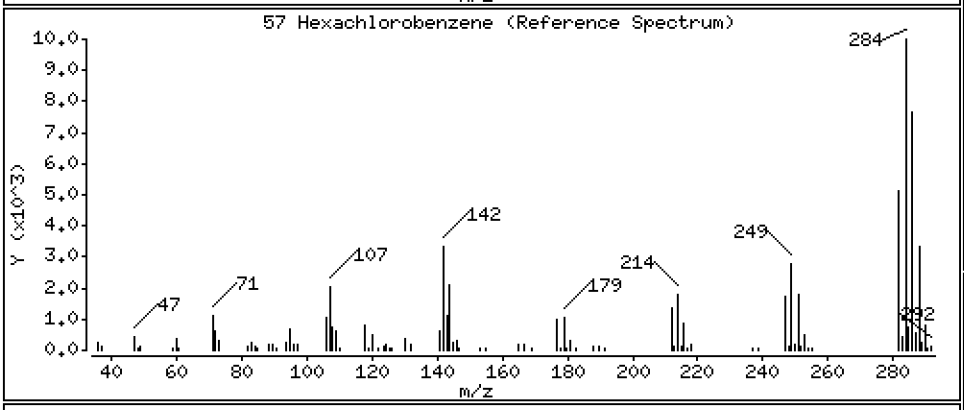
Column diameter: 0.25

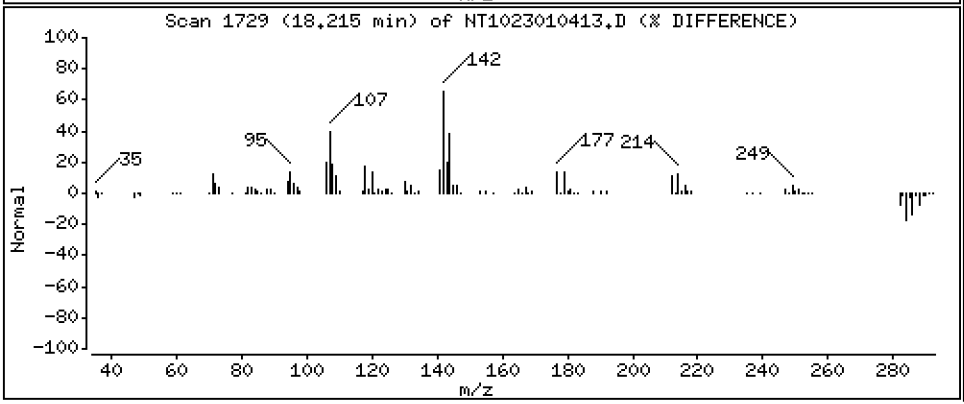
57 Hexachlorobenzene

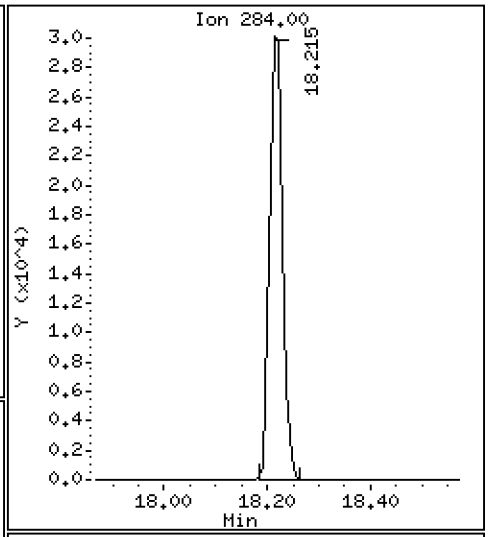
Concentration: 4.101 ug/mL

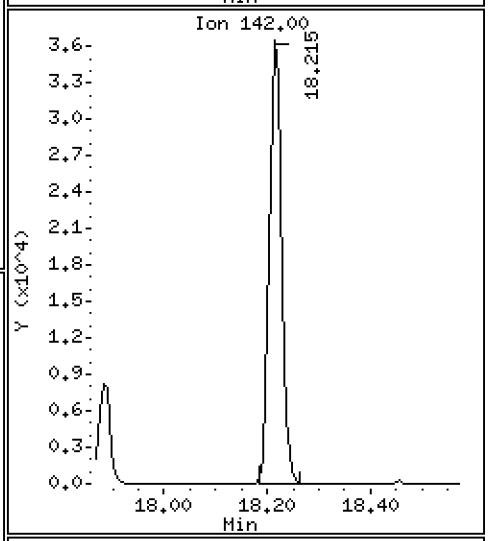


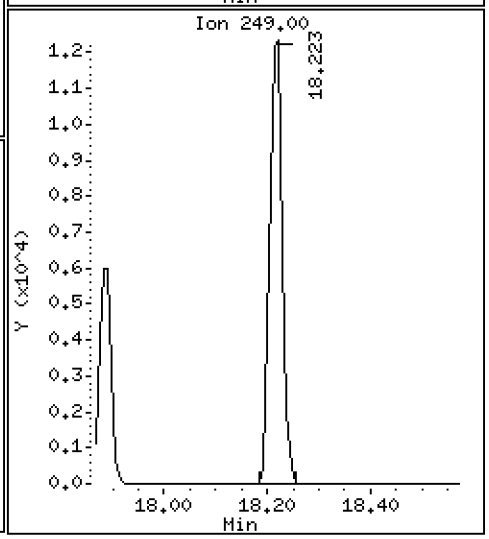












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

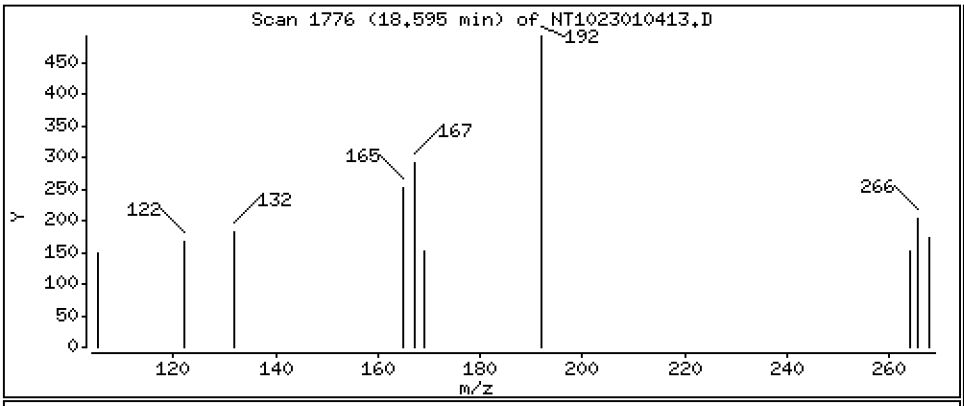
Operator: VTS

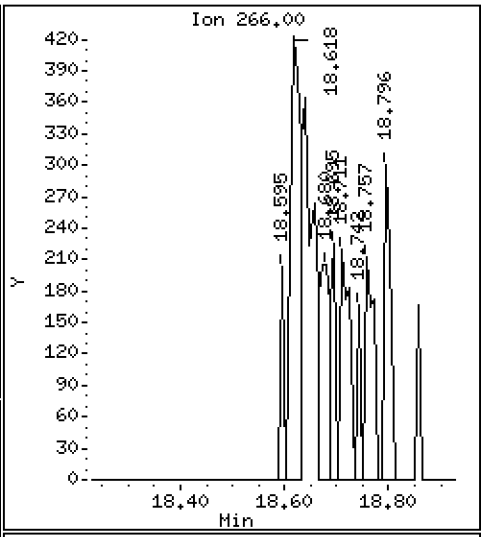
Column phase: ZB-5msi

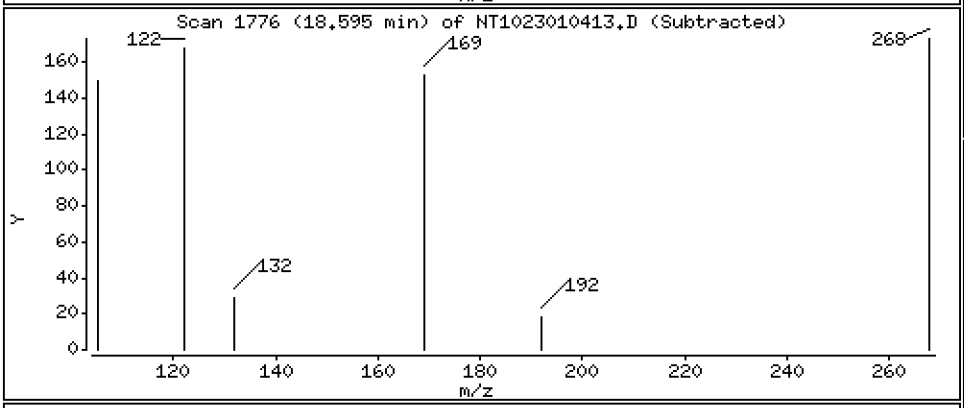
Column diameter: 0.25

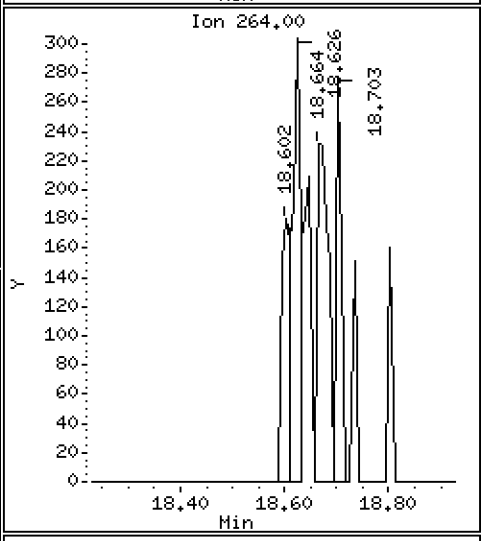
58 Pentachlorophenol

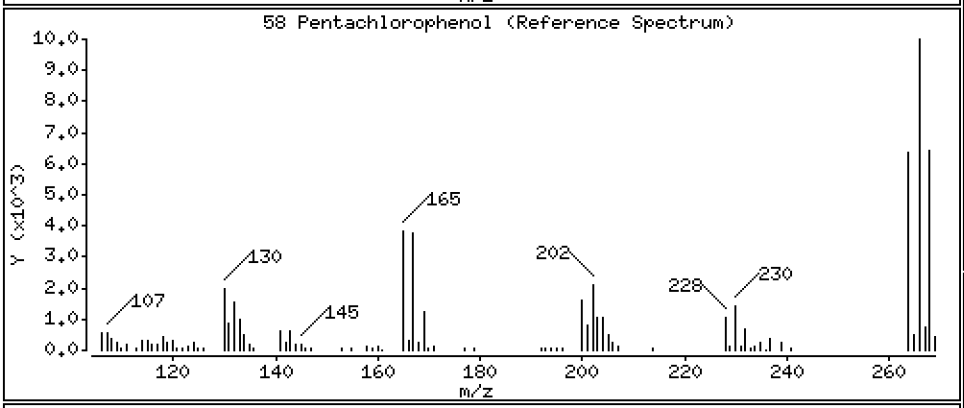
Concentration: 0.04497 ug/mL

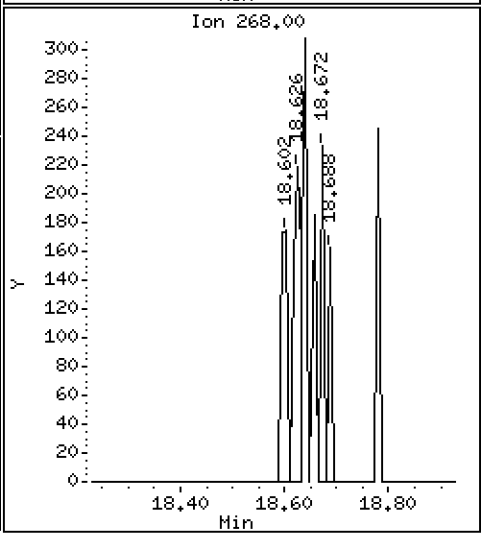


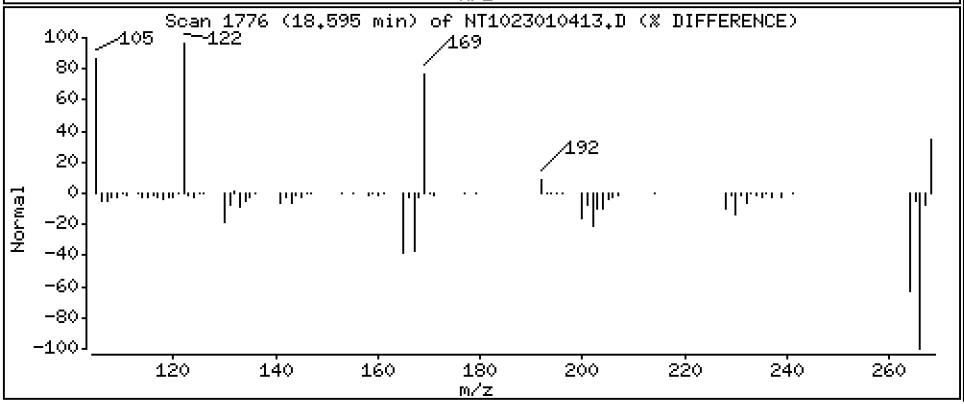












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

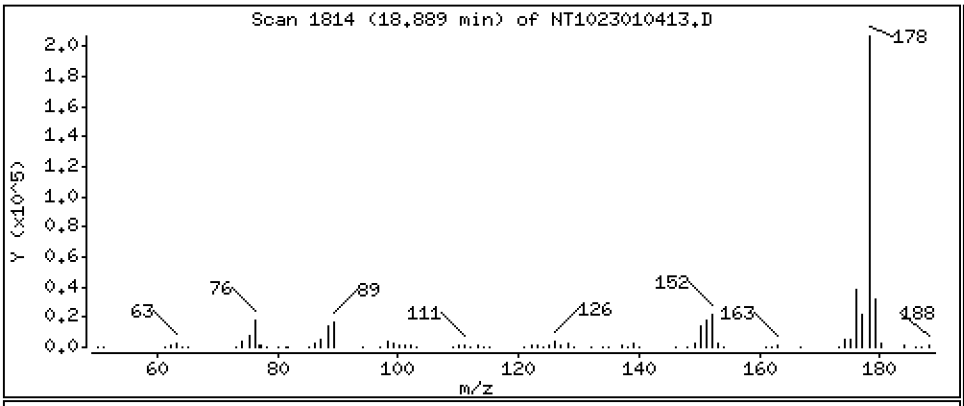
Operator: VTS

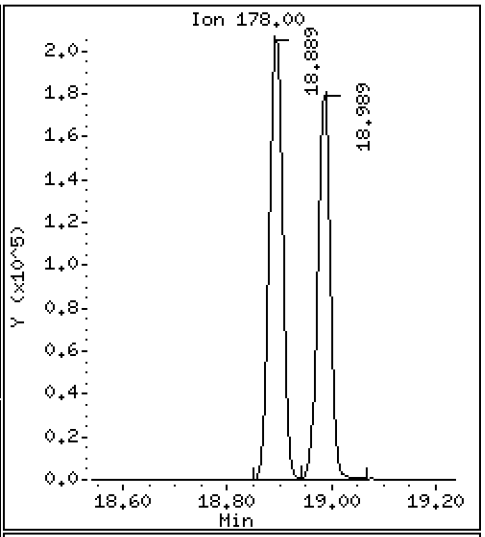
Column phase: ZB-5msi

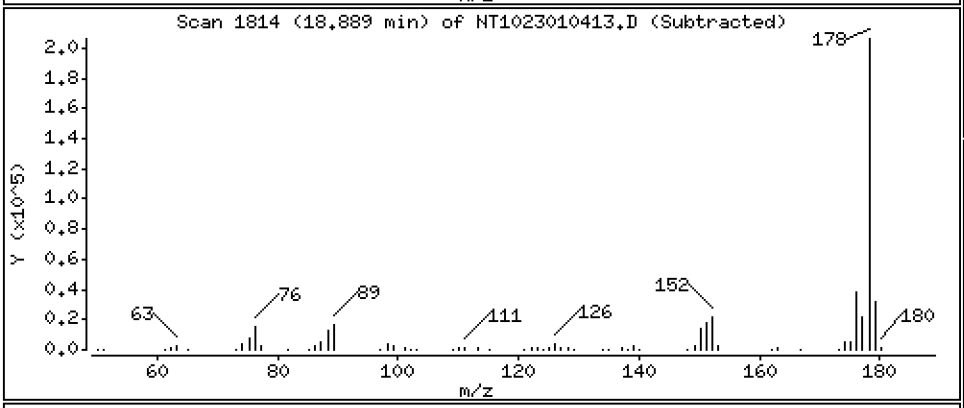
Column diameter: 0.25

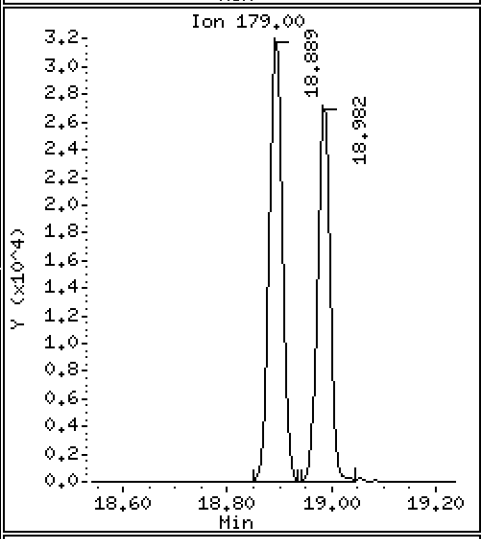
60 Phenanthrene

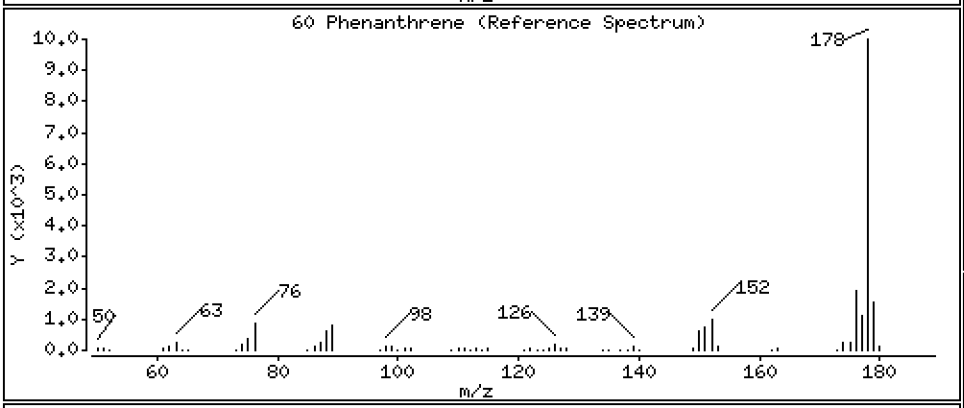
Concentration: 5.025 ug/mL

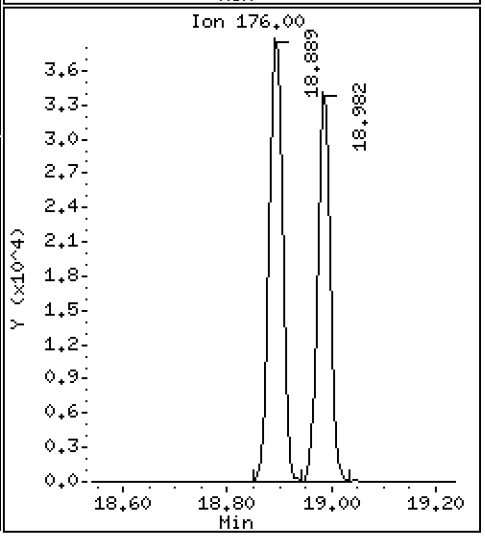


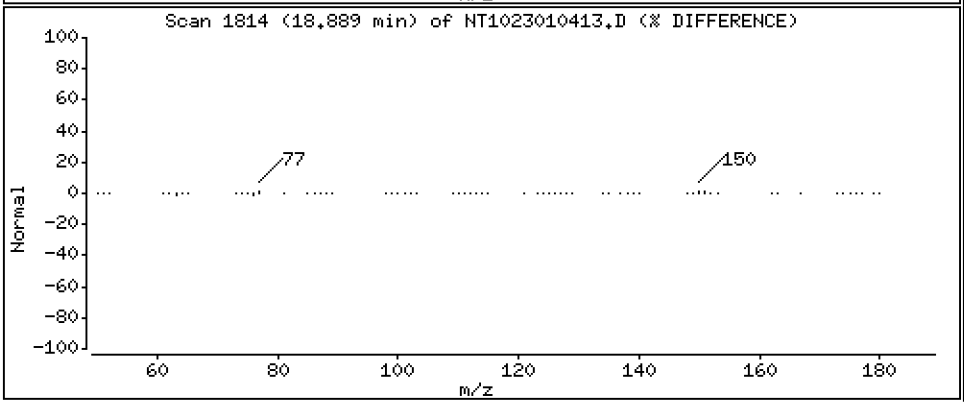












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

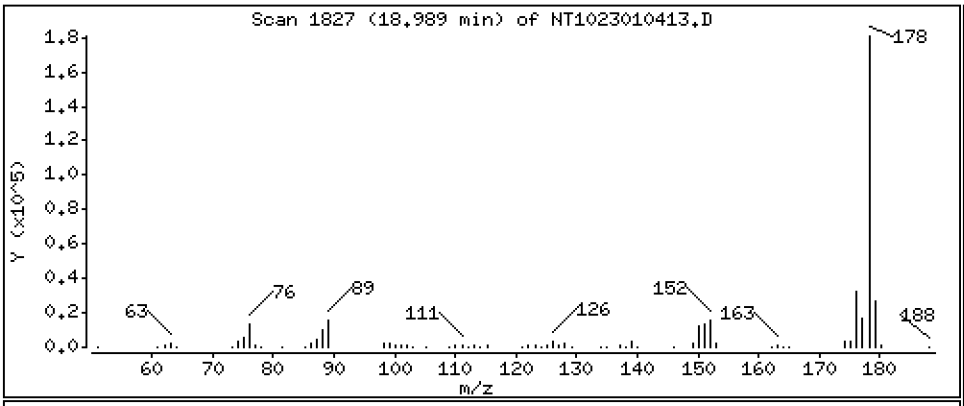
Operator: VTS

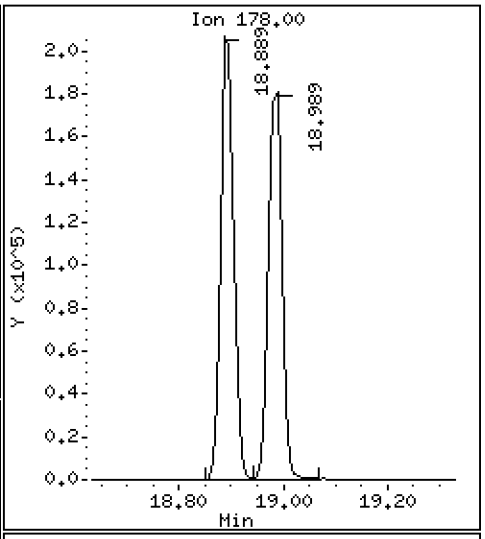
Column phase: ZB-5msi

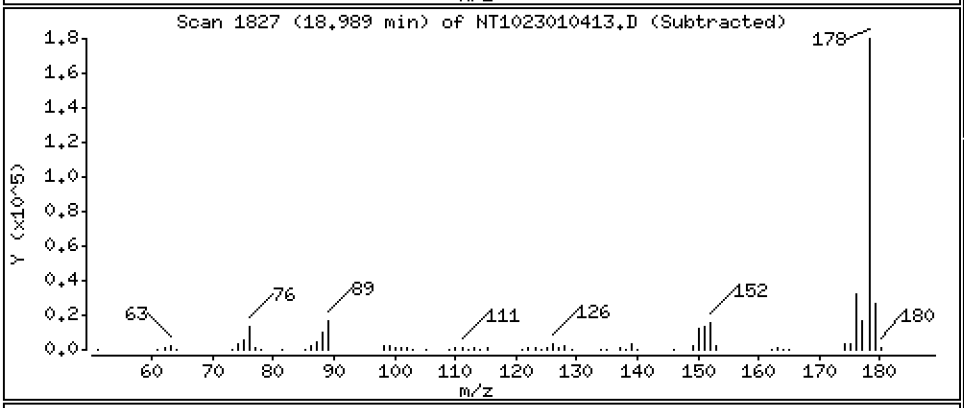
Column diameter: 0.25

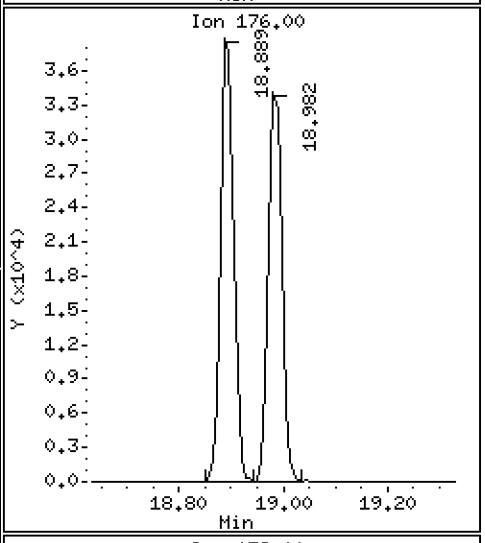
61 Anthracene

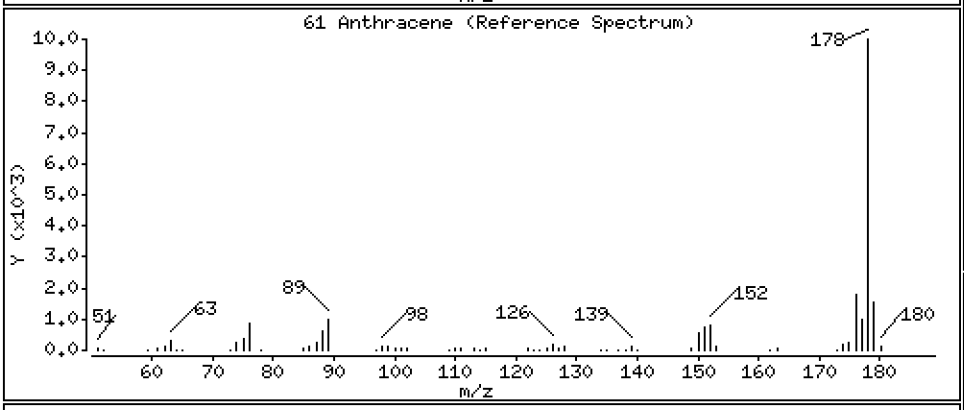
Concentration: 4.542 ug/mL

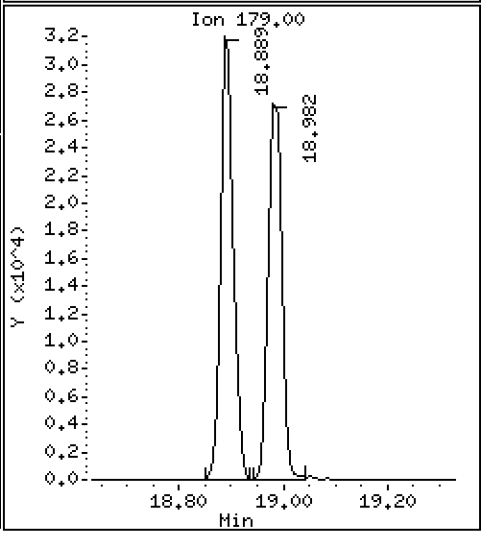


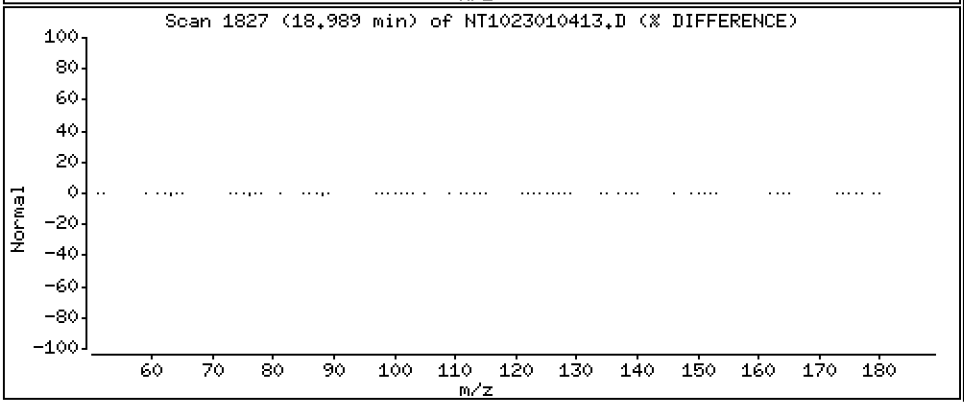












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

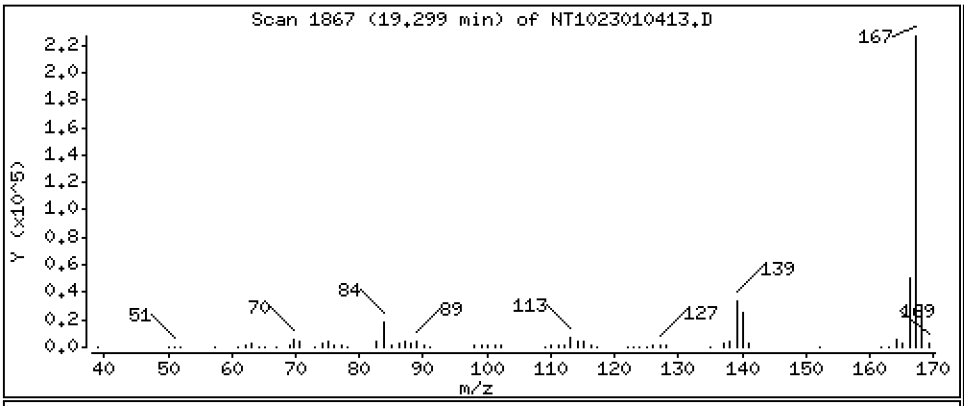
Operator: VTS

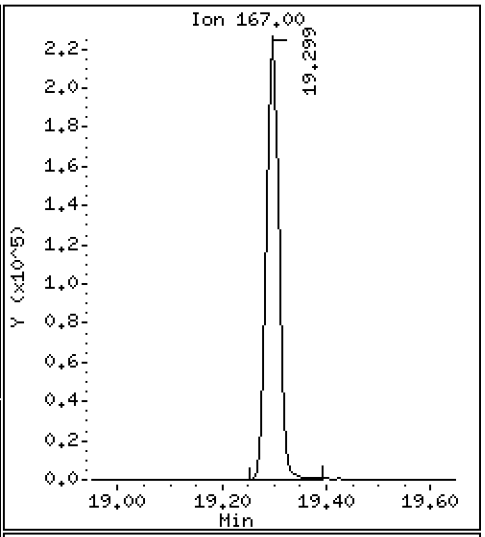
Column phase: ZB-5msi

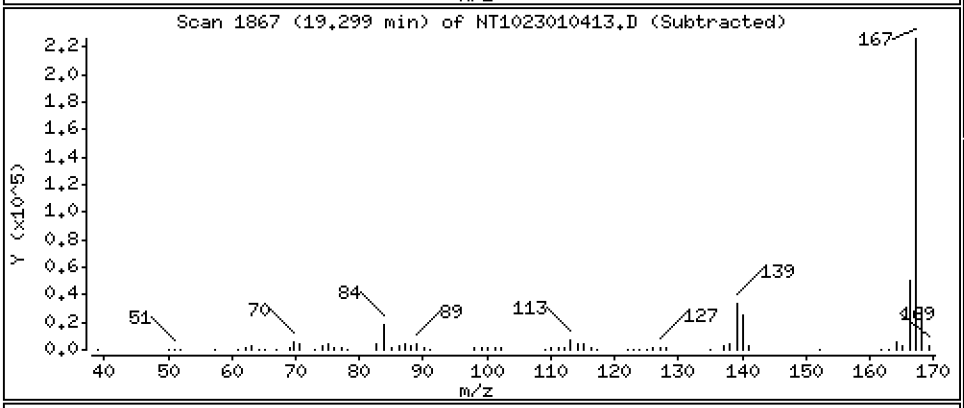
Column diameter: 0.25

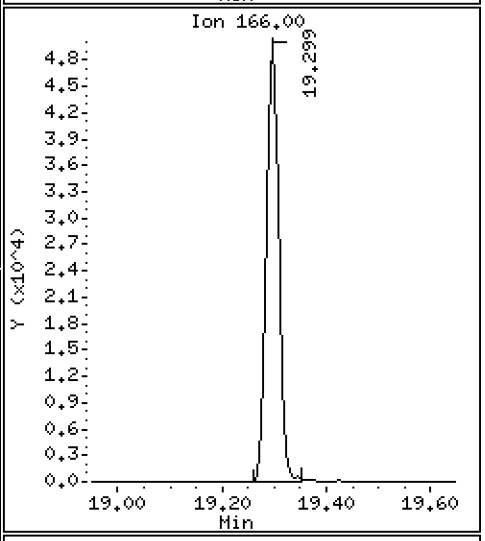
62 Carbazole

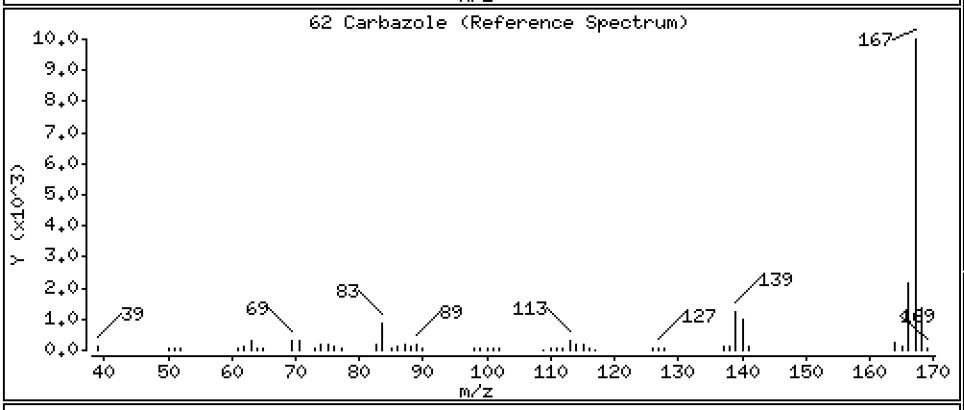
Concentration: 4.823 ug/mL

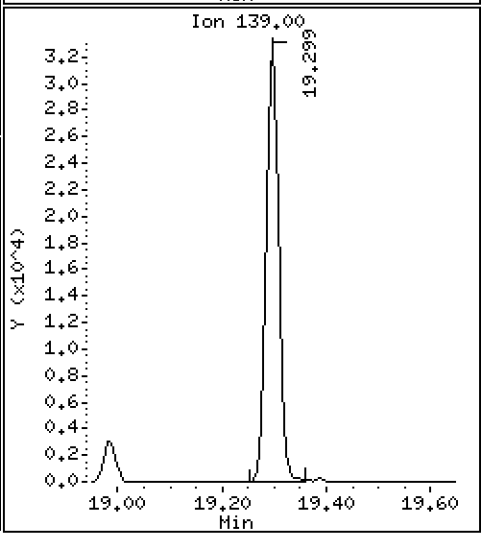


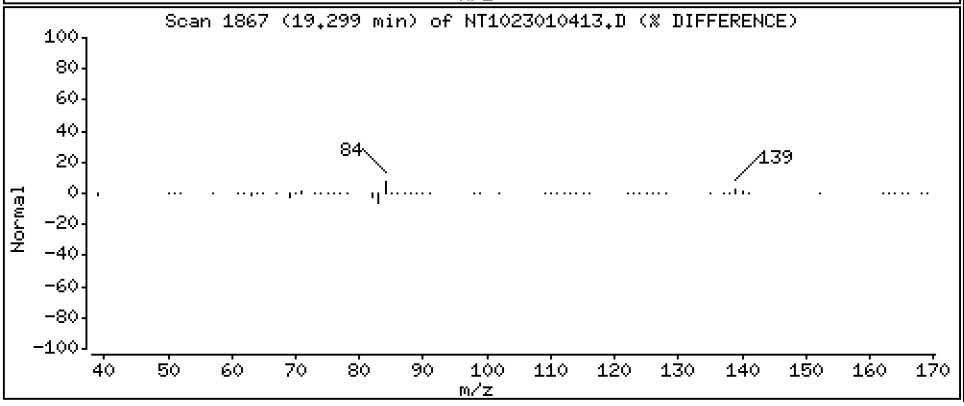












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

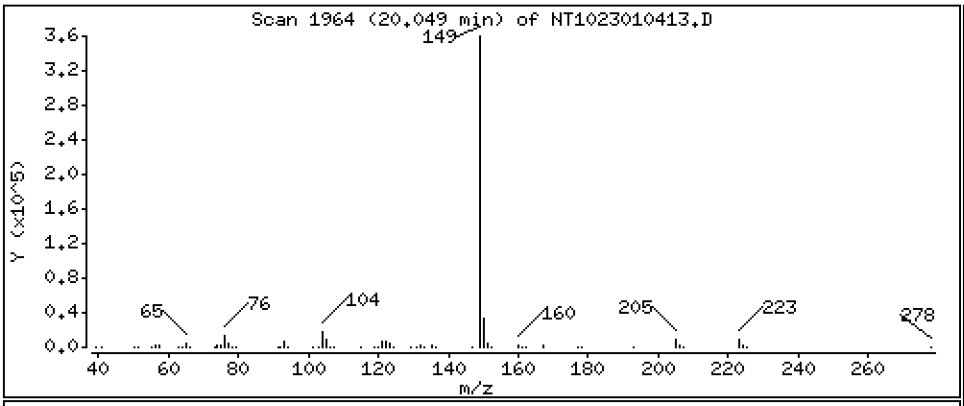
Operator: VTS

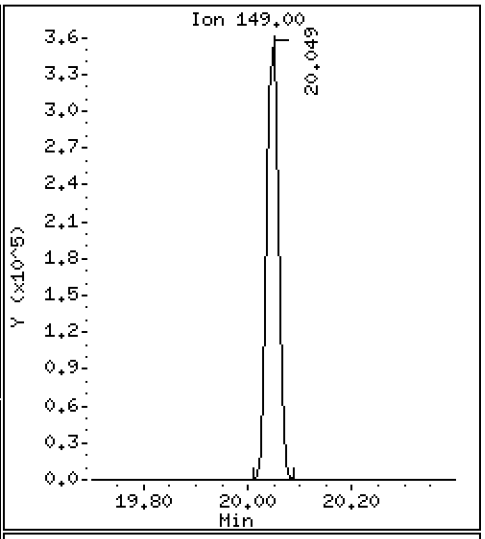
Column phase: ZB-5msi

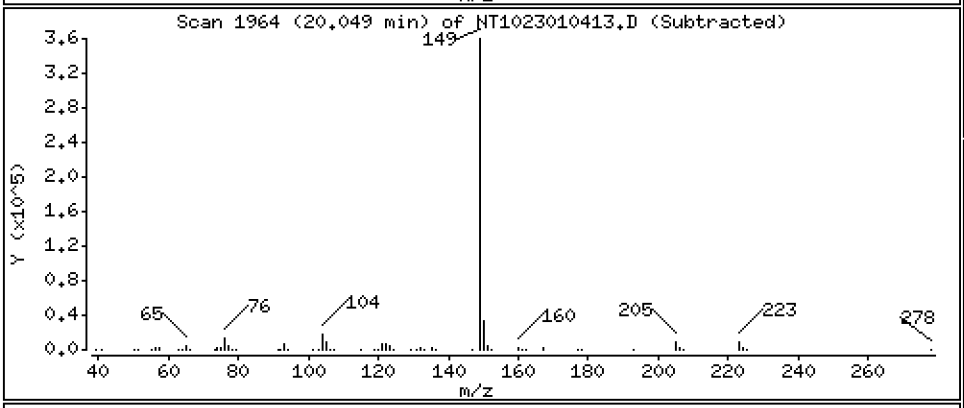
Column diameter: 0.25

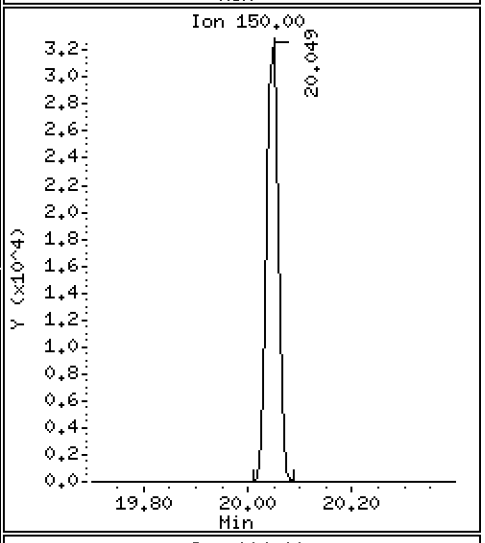
63 Di-n-butylphthalate

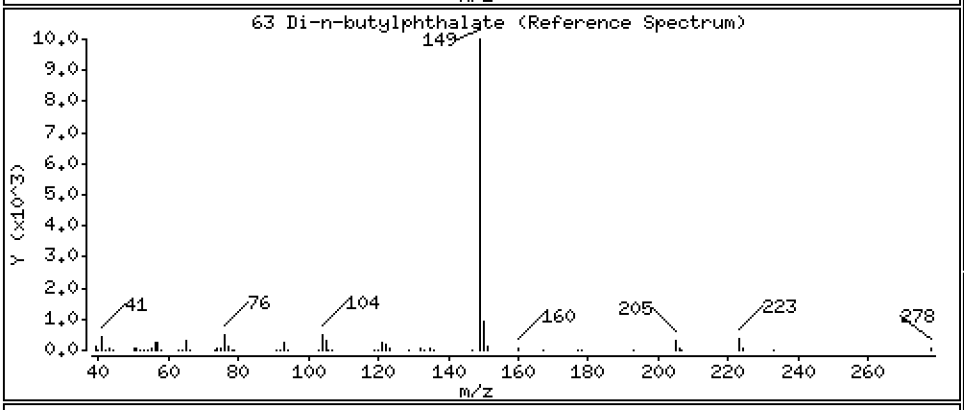
Concentration: 5.130 ug/mL

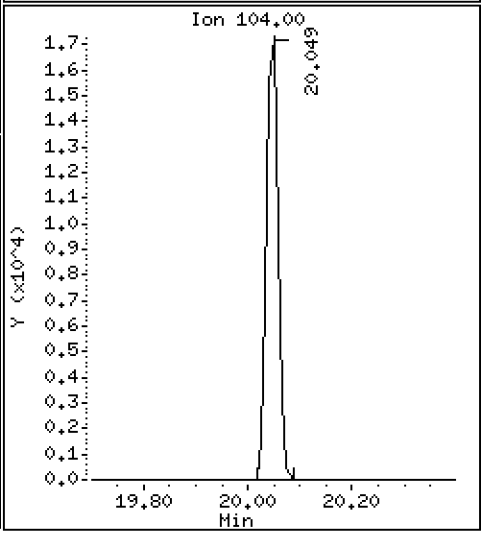


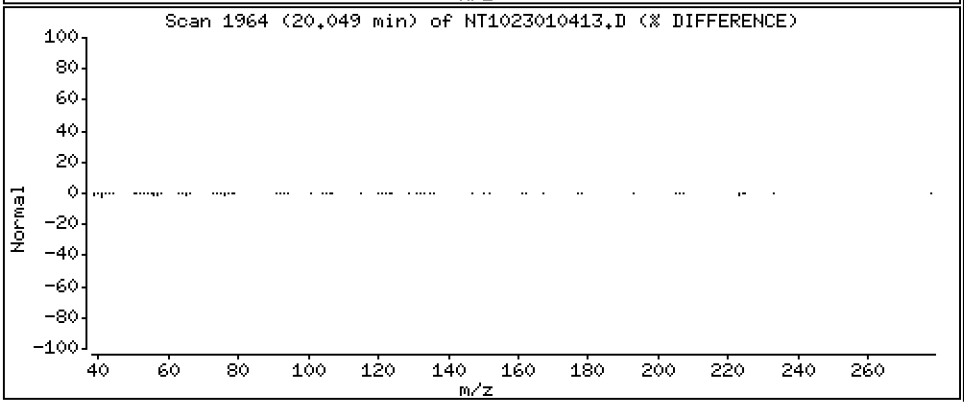












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

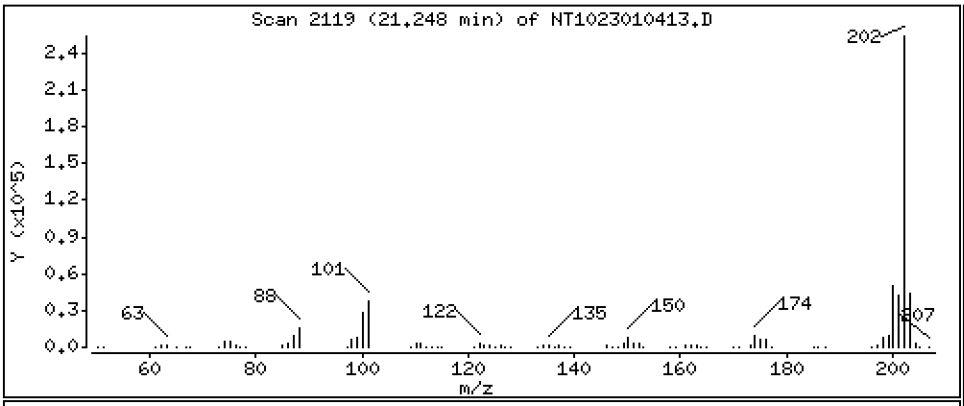
Operator: VTS

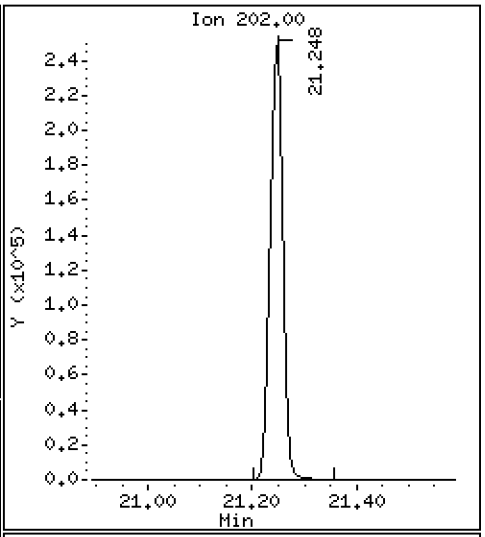
Column phase: ZB-5msi

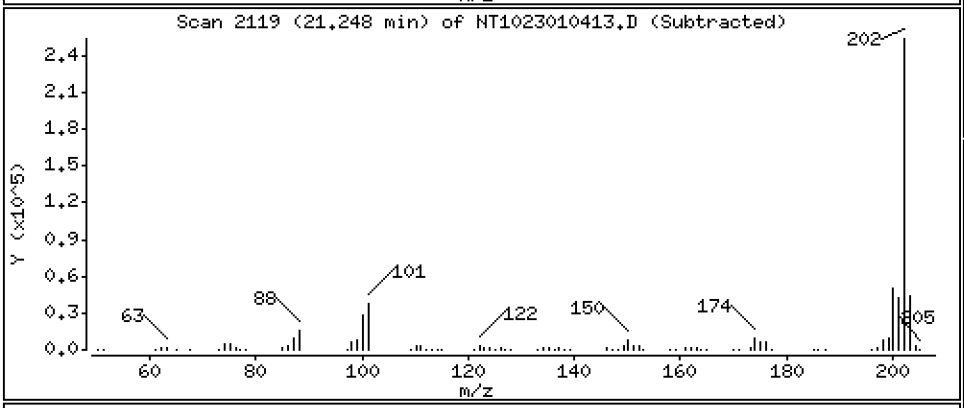
Column diameter: 0.25

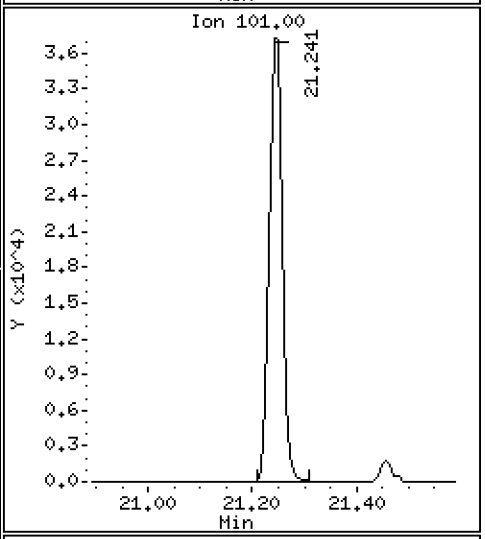
64 Fluoranthene

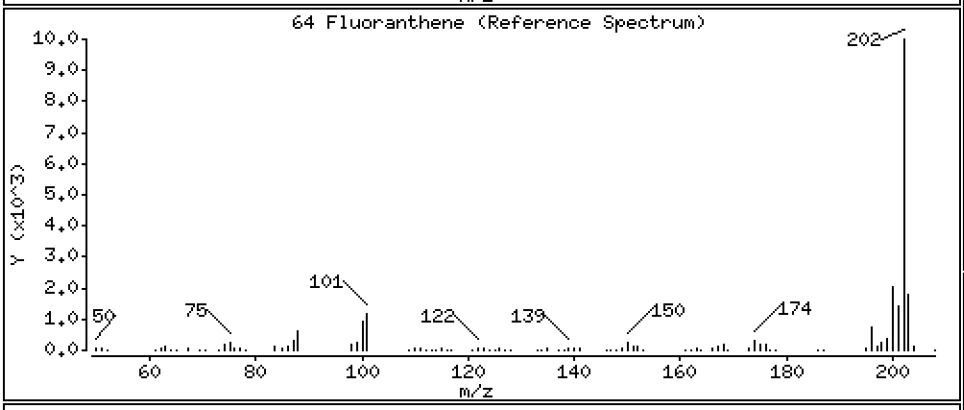
Concentration: 5.425 ug/mL

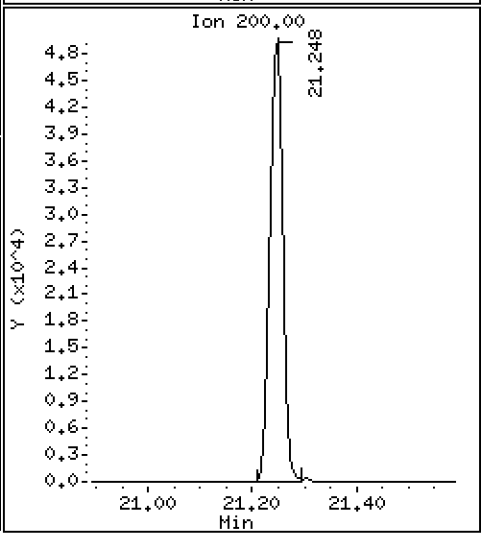


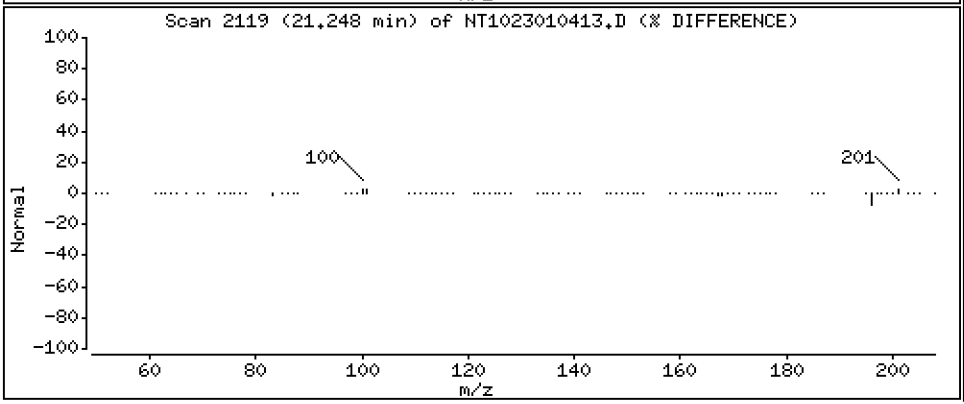












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

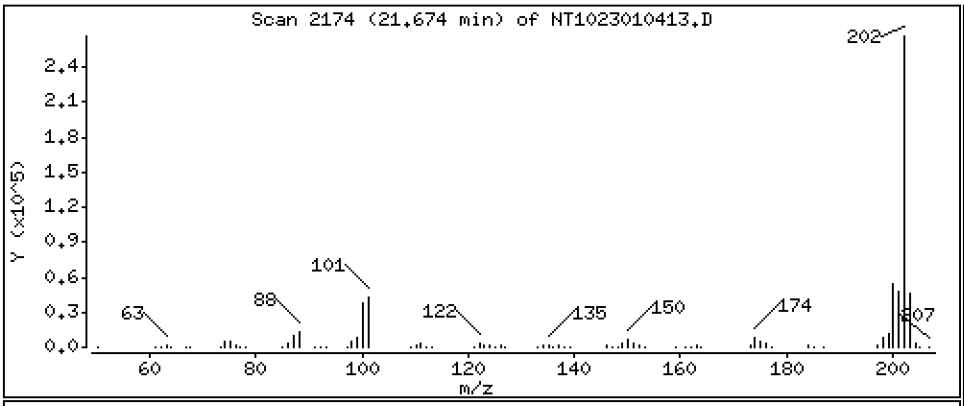
Operator: VTS

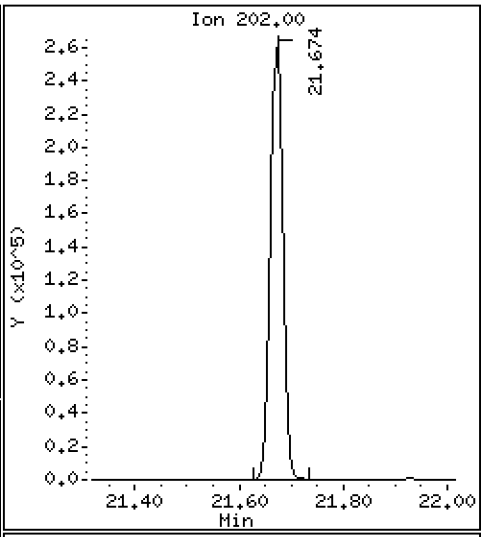
Column phase: ZB-5msi

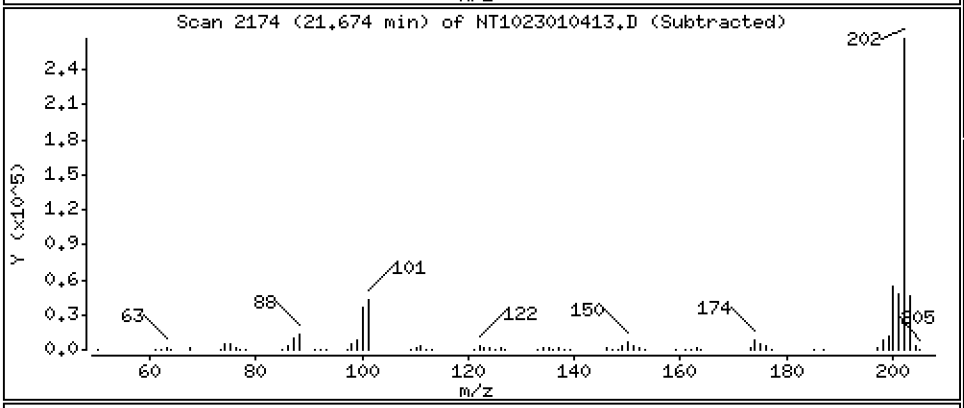
Column diameter: 0.25

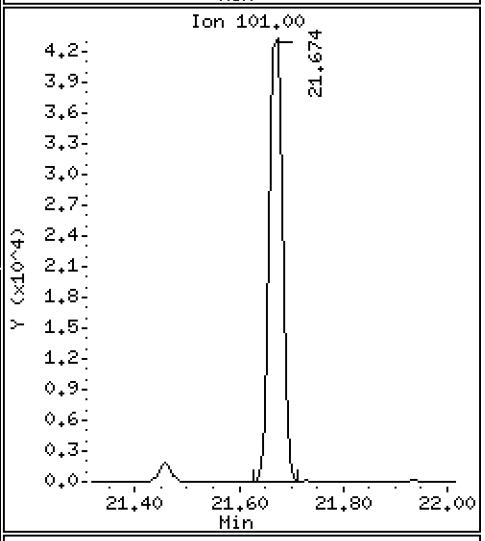
65 Pyrene

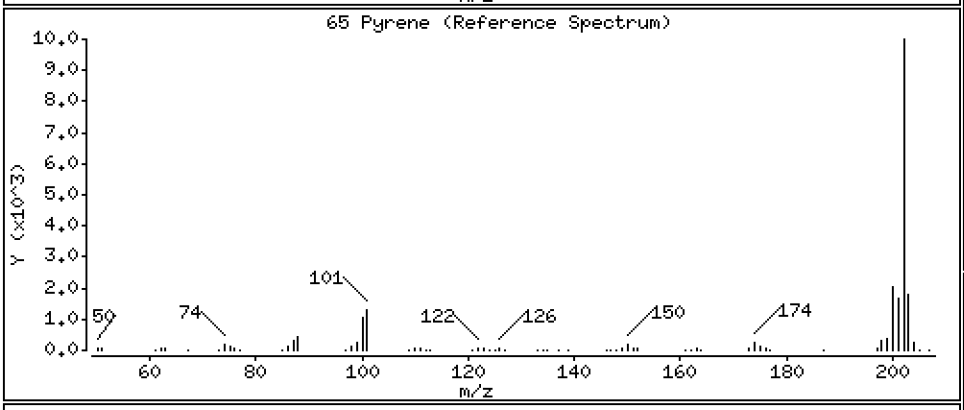
Concentration: 5.438 ug/mL

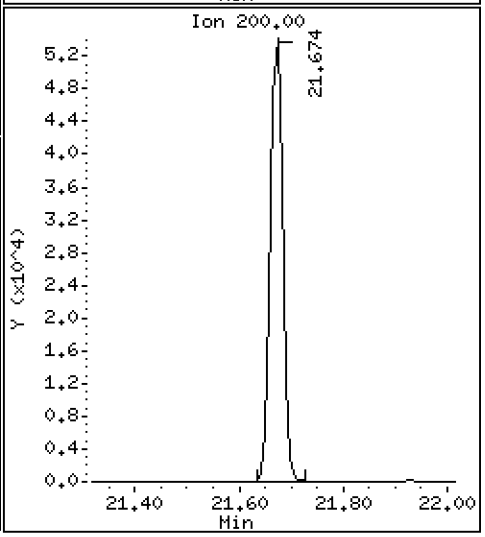


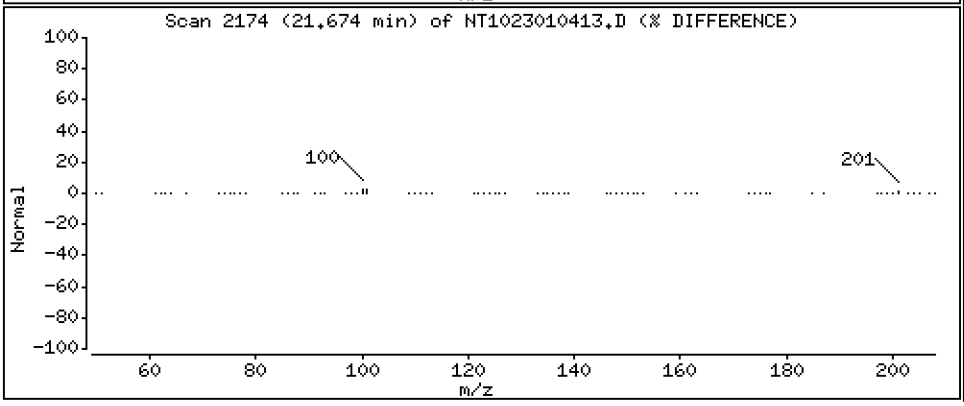












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

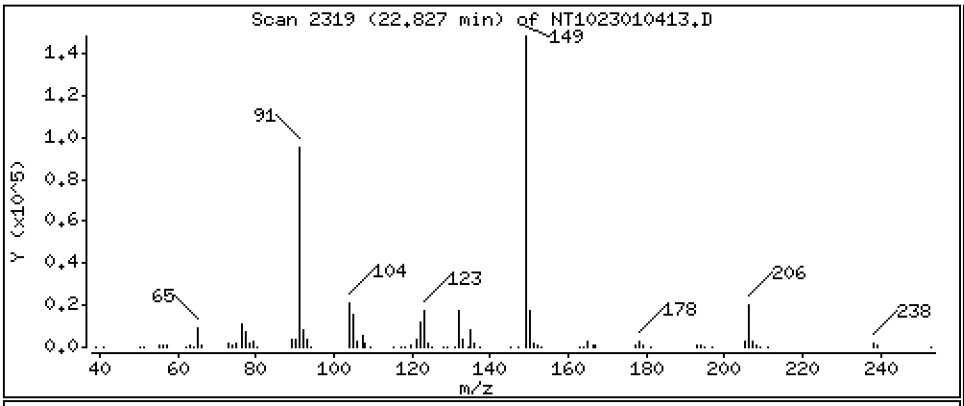
Operator: VTS

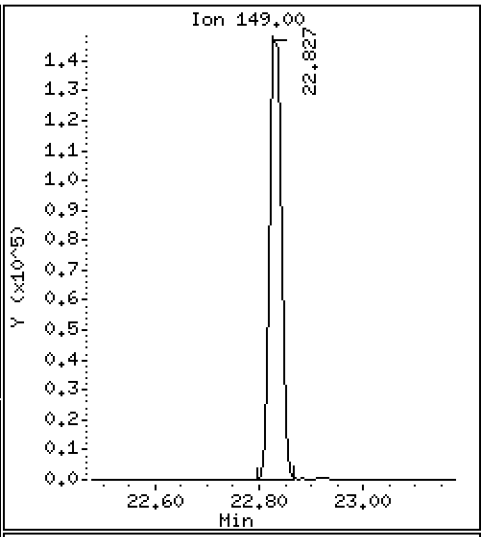
Column phase: ZB-5msi

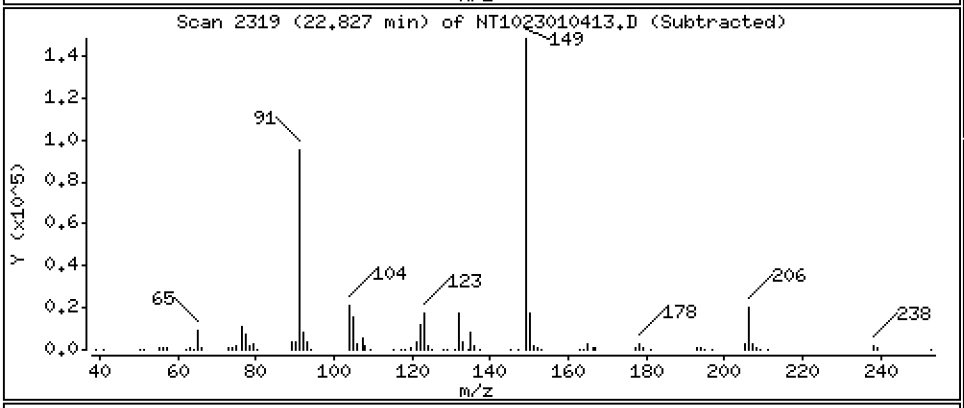
Column diameter: 0.25

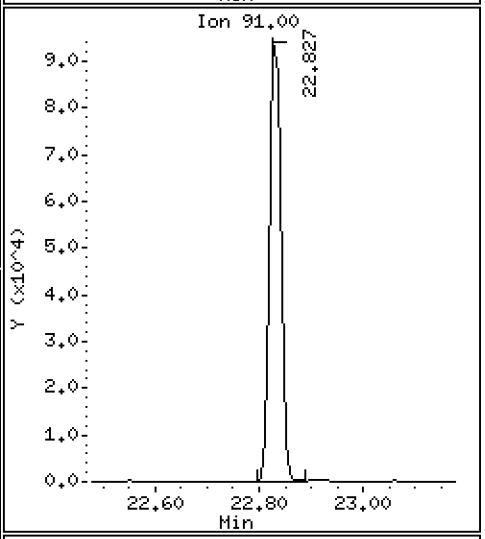
67 Butylbenzylphthalate

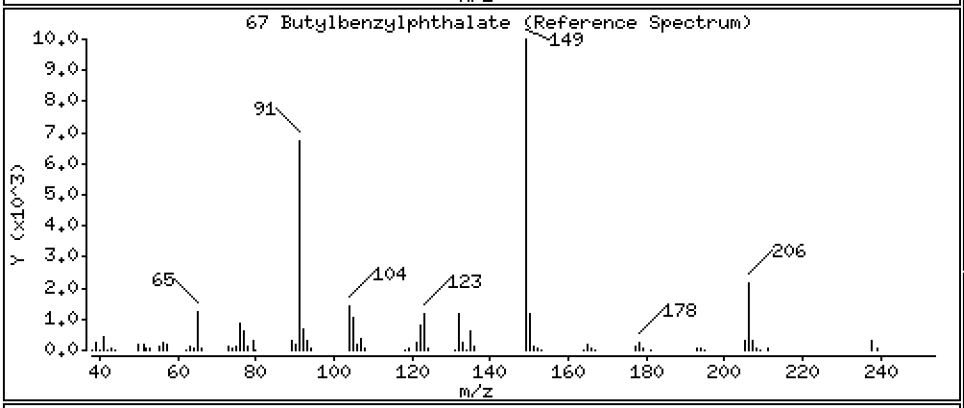
Concentration: 5.293 ug/mL

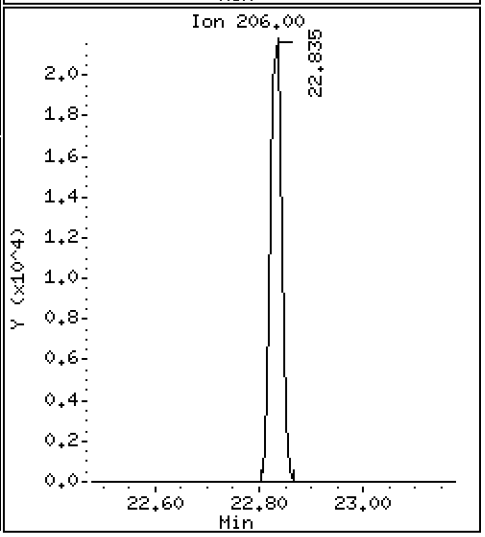


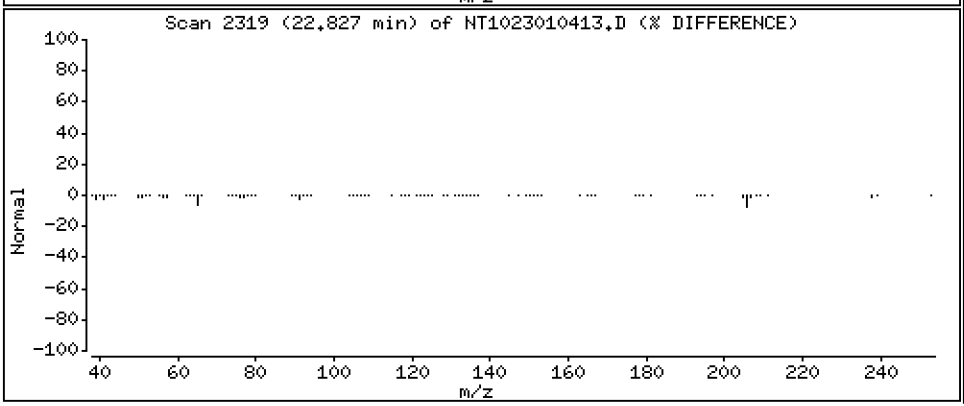












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

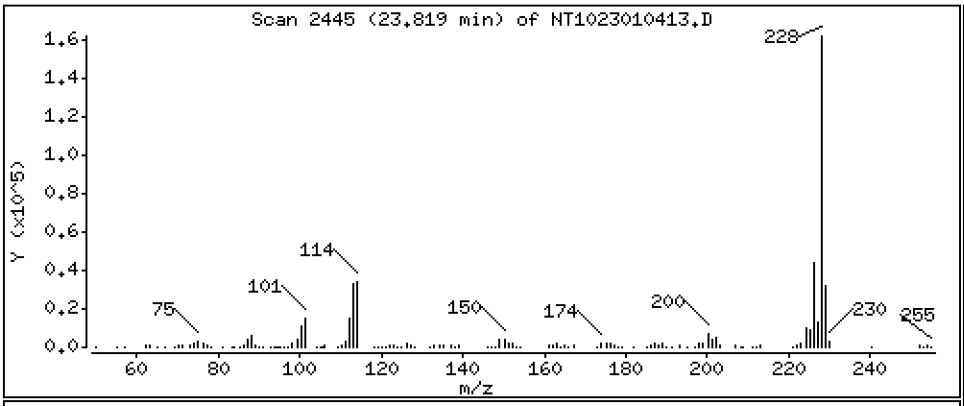
Operator: VTS

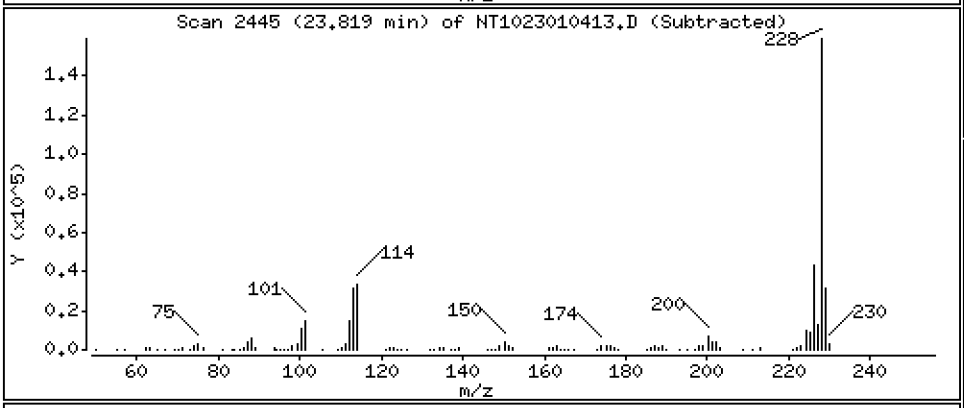
Column phase: ZB-5msi

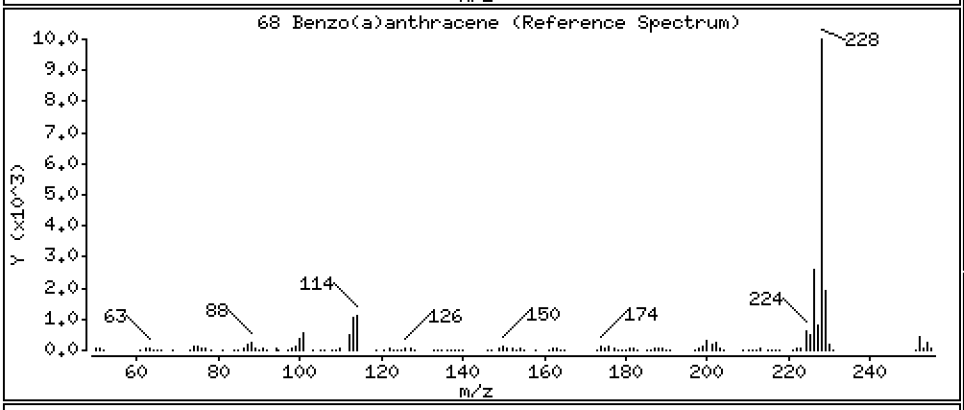
Column diameter: 0.25

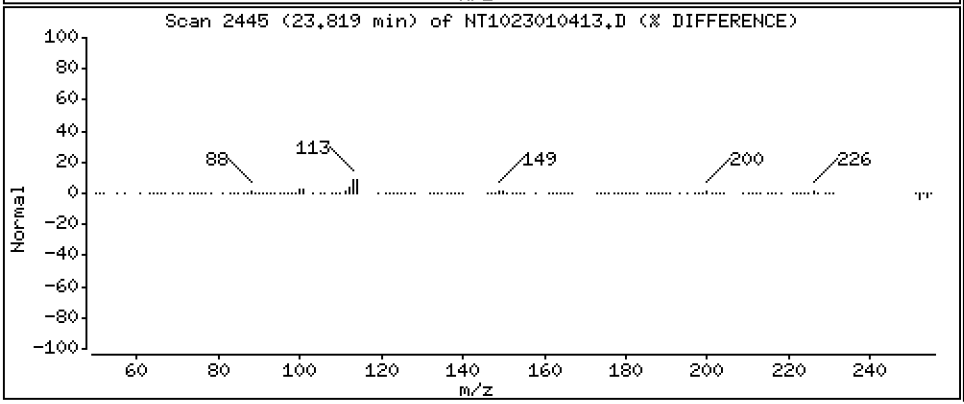
68 Benzo(a)anthracene

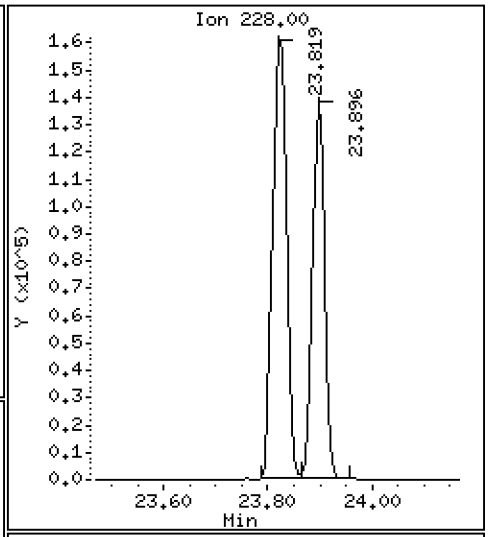
Concentration: 5.367 ug/mL

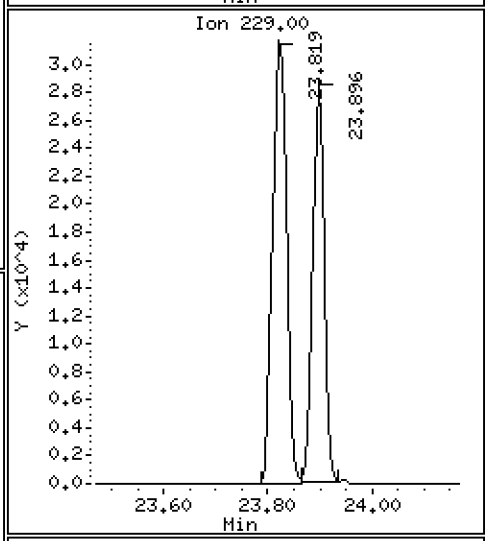


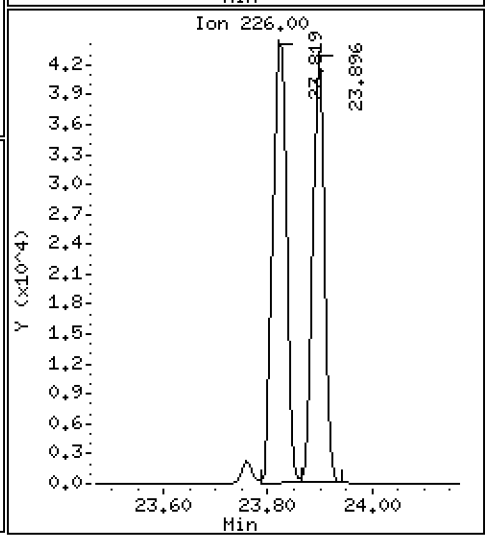












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

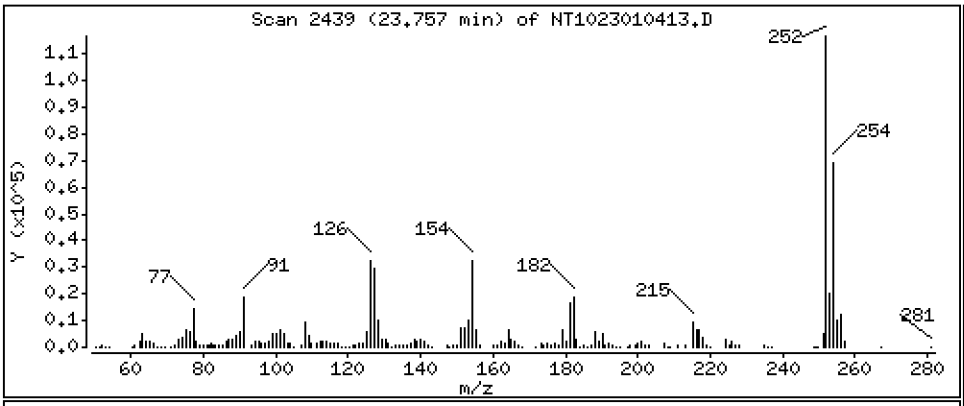
Operator: VTS

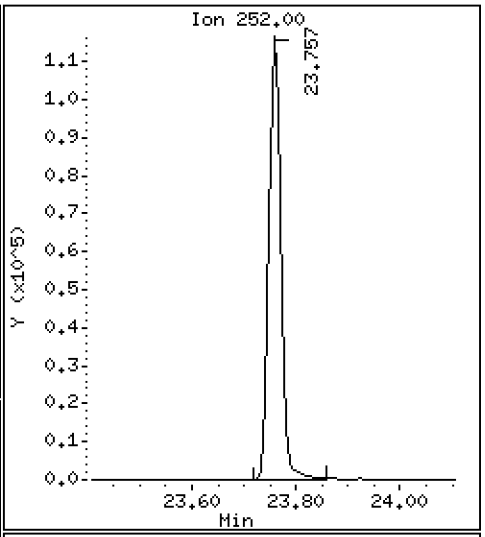
Column phase: ZB-5msi

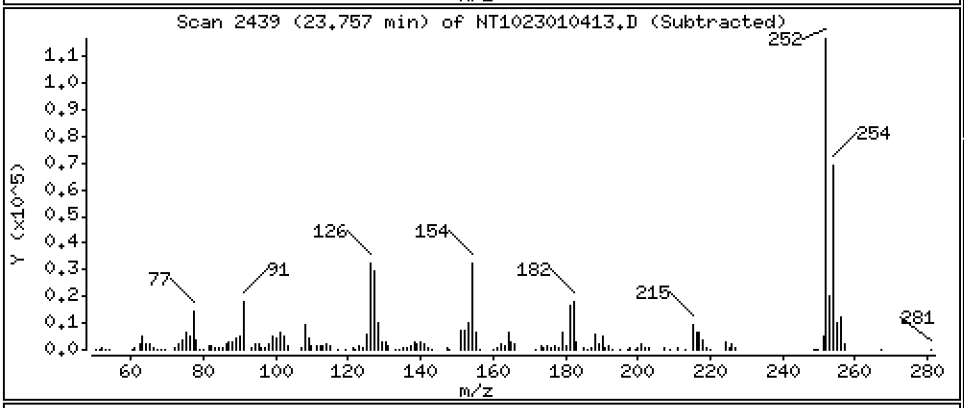
Column diameter: 0.25

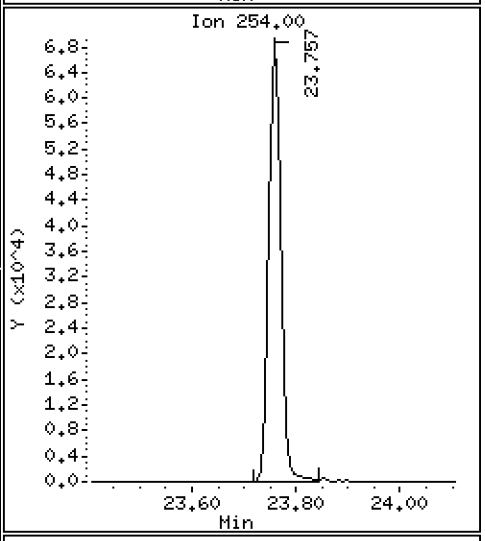
70 3,3'-Dichlorobenzidine

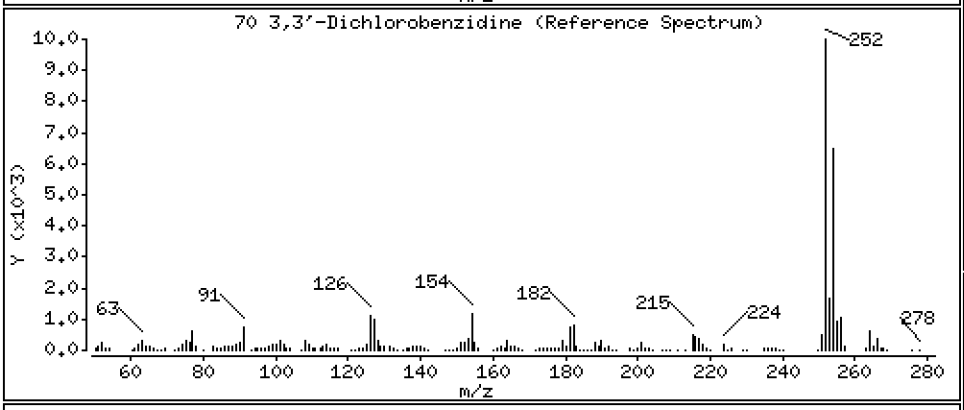
Concentration: 10.55 ug/mL

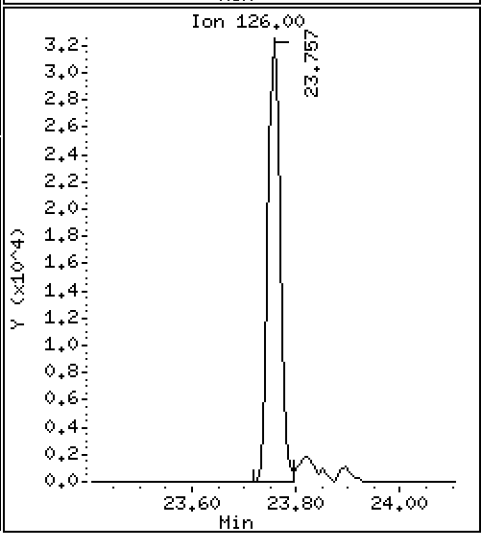


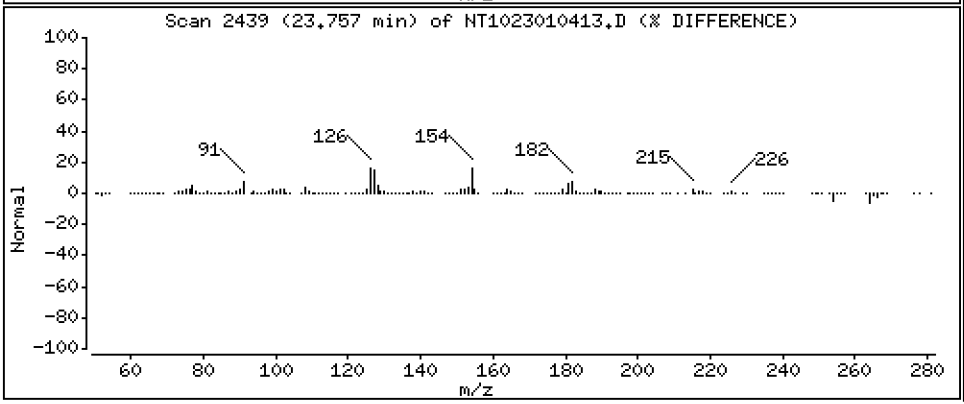












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

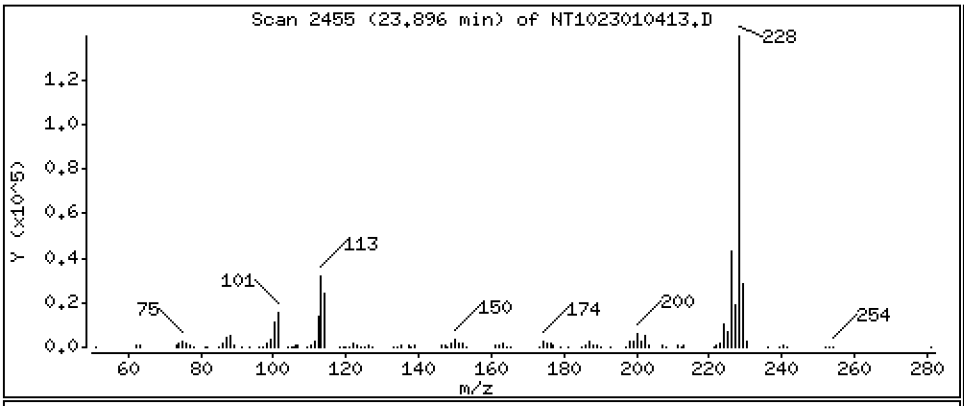
Operator: VTS

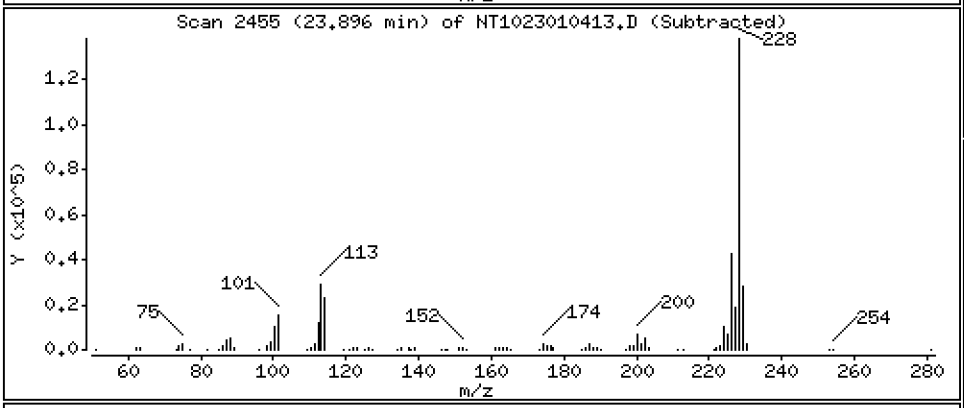
Column phase: ZB-5msi

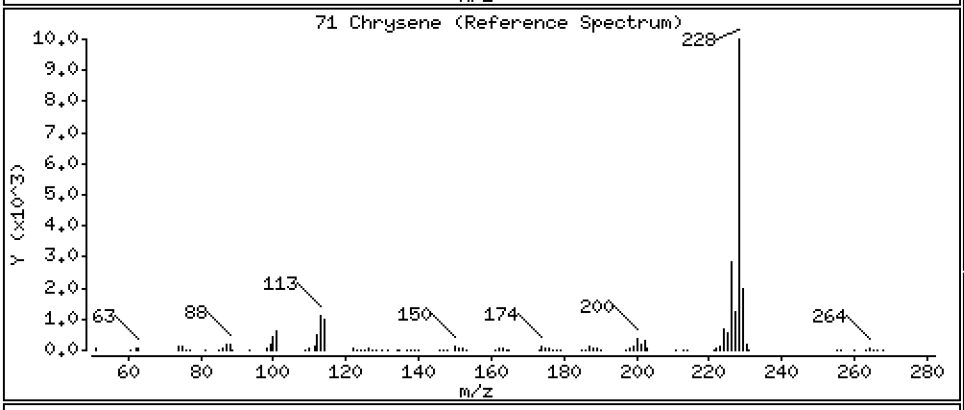
Column diameter: 0.25

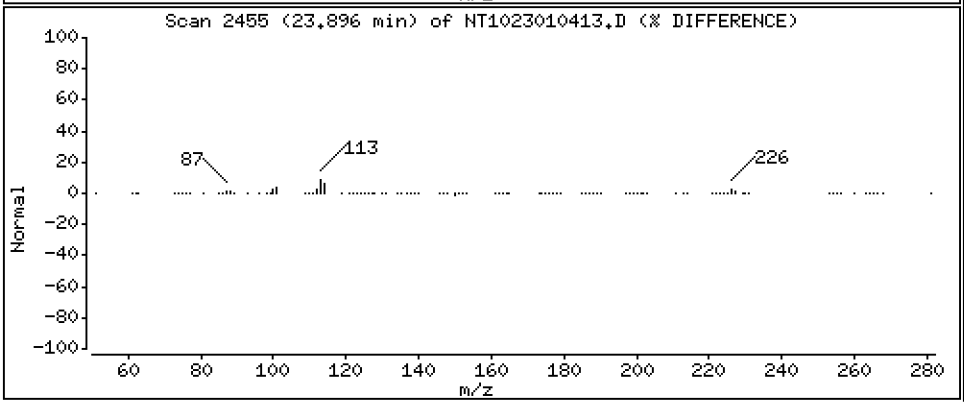
71 Chrysene

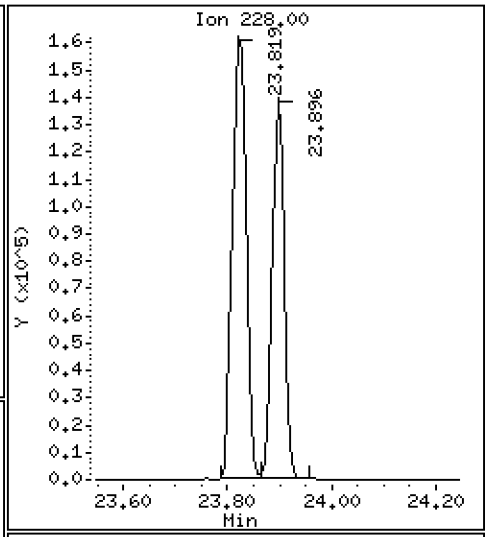
Concentration: 4.662 ug/mL

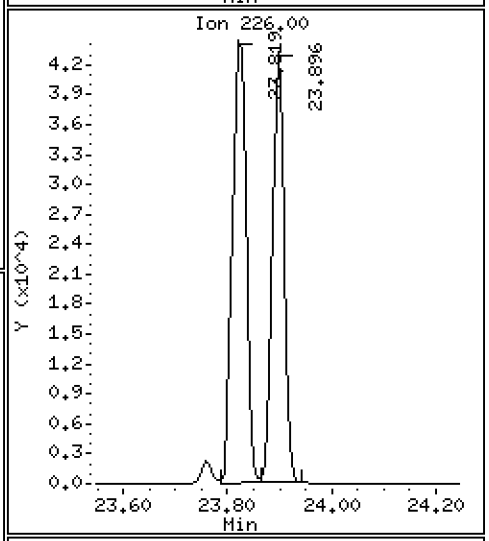


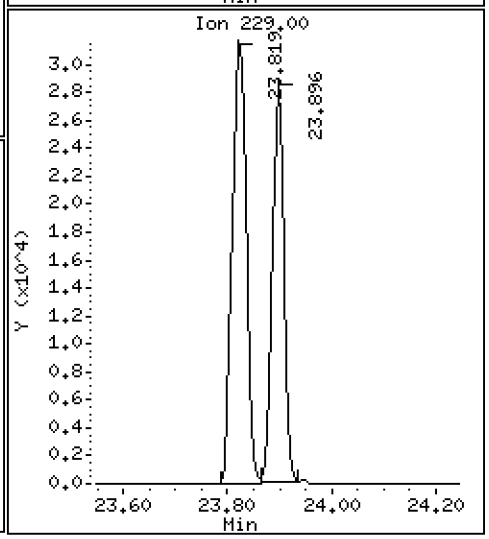












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

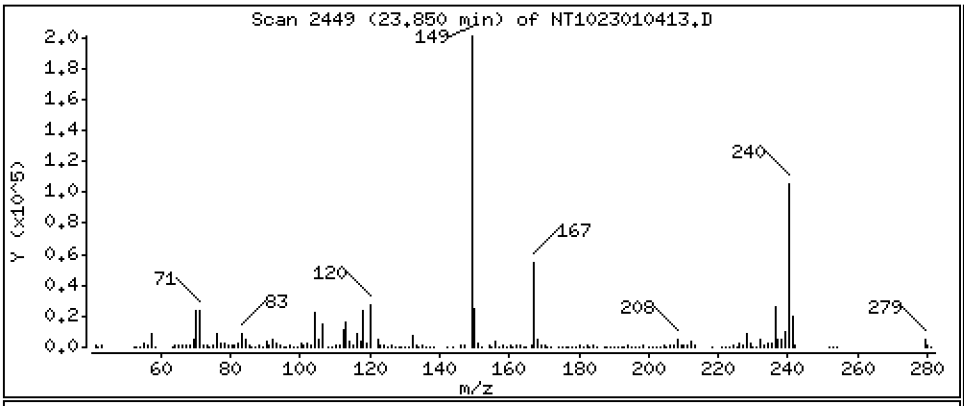
Operator: VTS

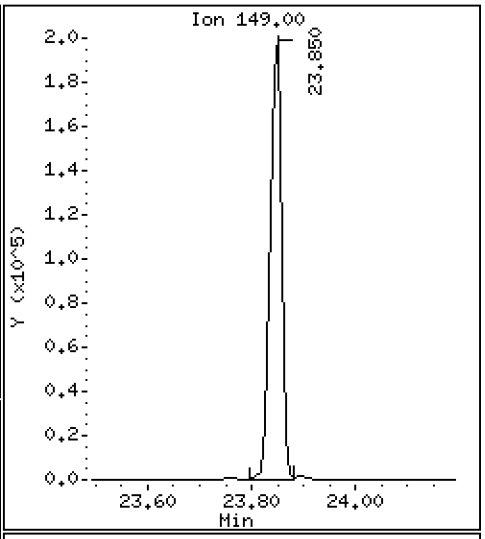
Column phase: ZB-5msi

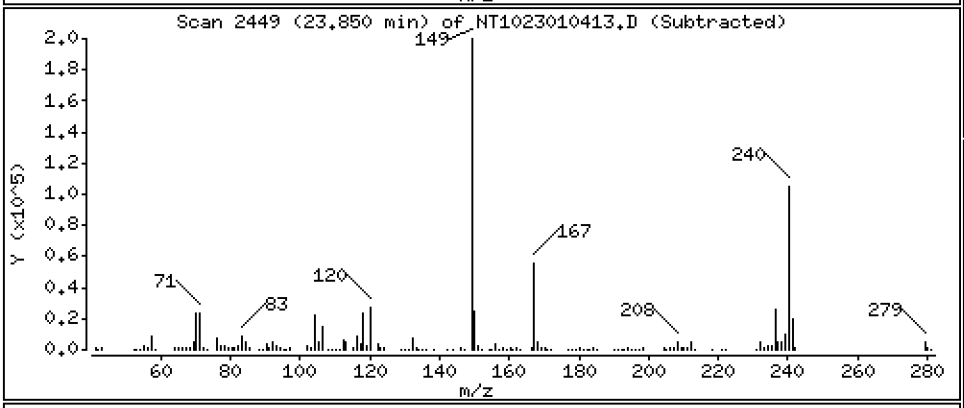
Column diameter: 0.25

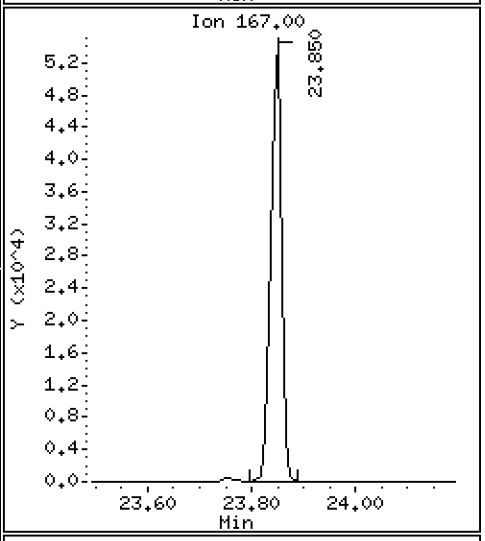
72 bis(2-Ethylhexyl)phthalate

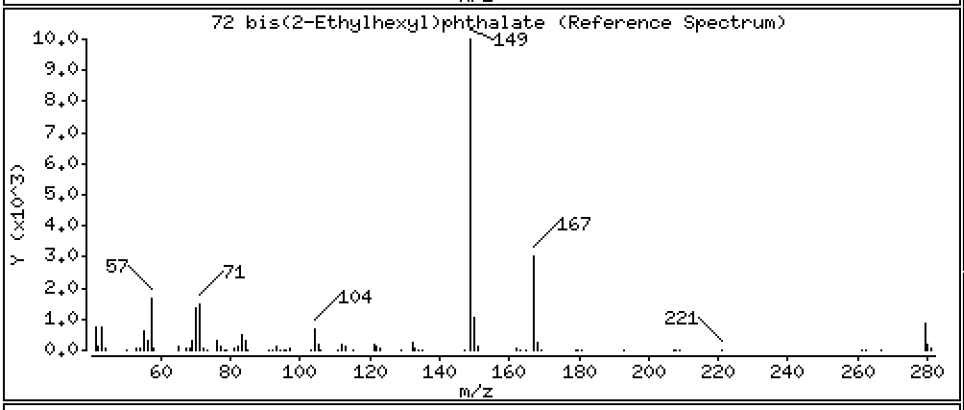
Concentration: 5.281 ug/mL

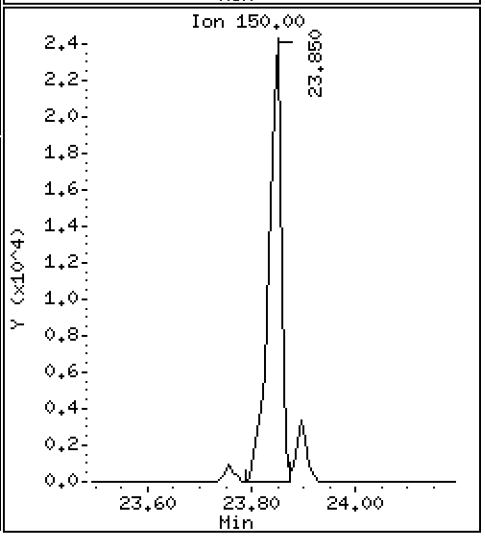


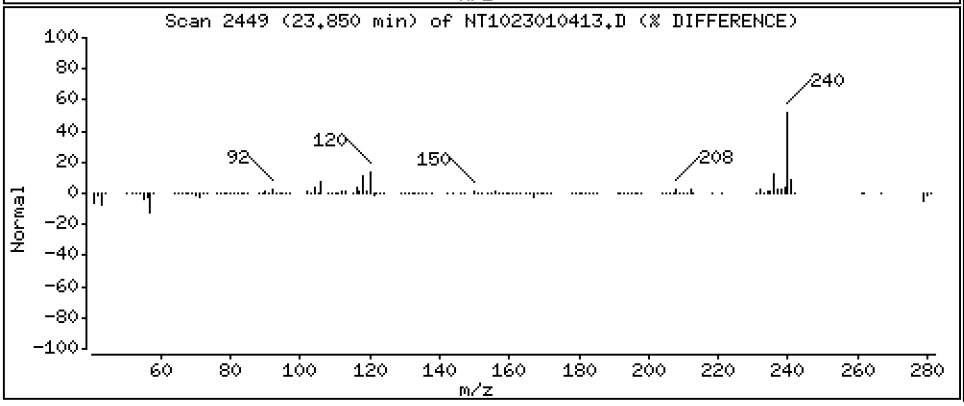












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

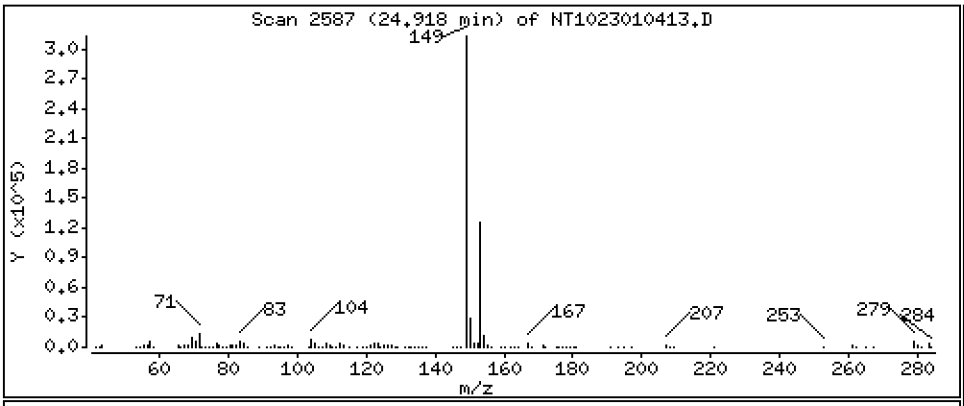
Operator: VTS

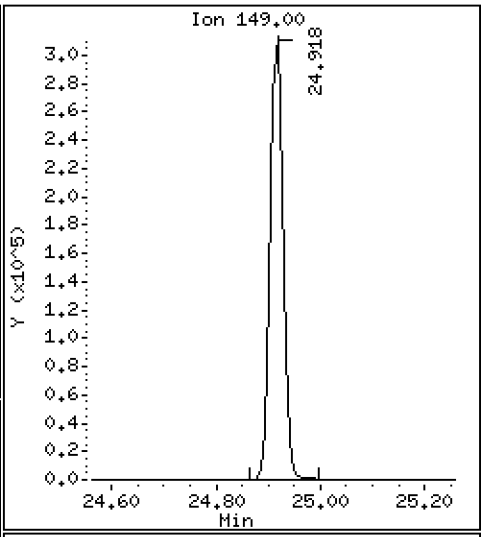
Column phase: ZB-5msi

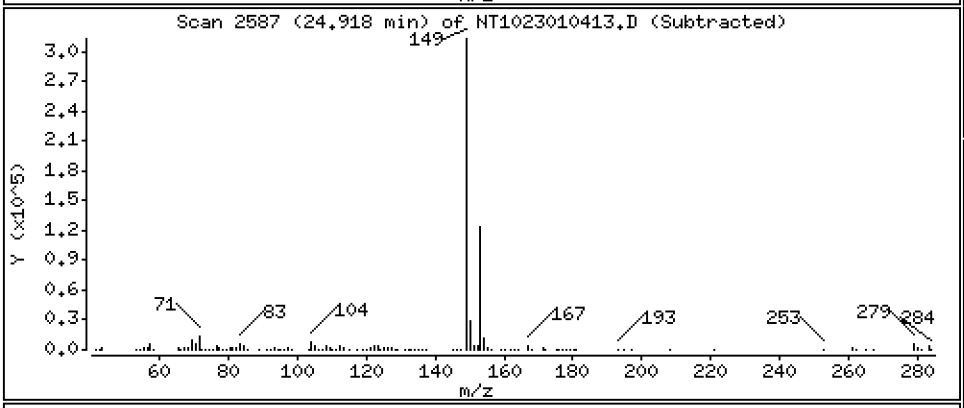
Column diameter: 0.25

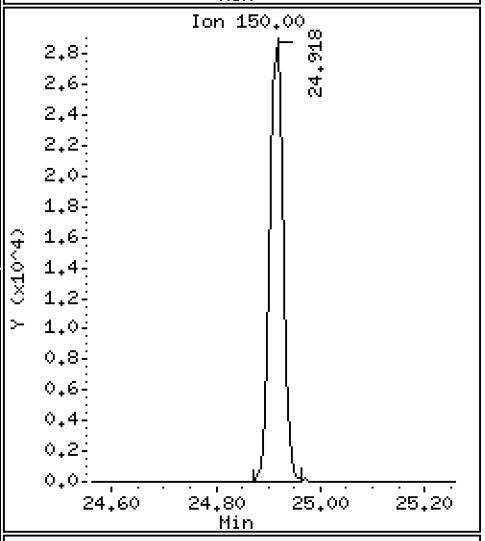
73 Di-n-octylphthalate

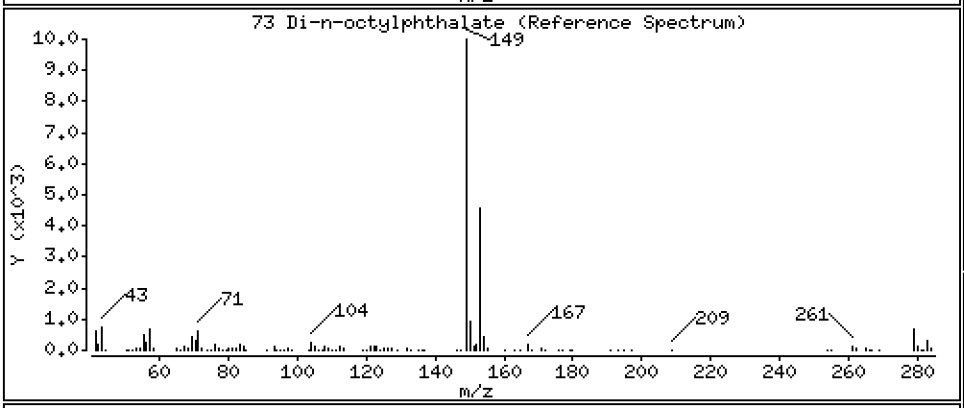
Concentration: 5.052 ug/mL

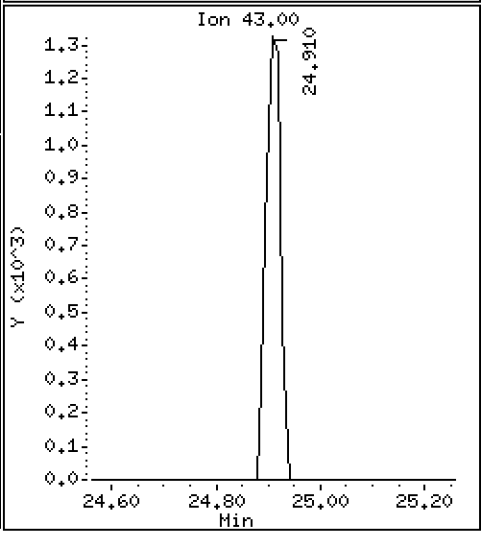


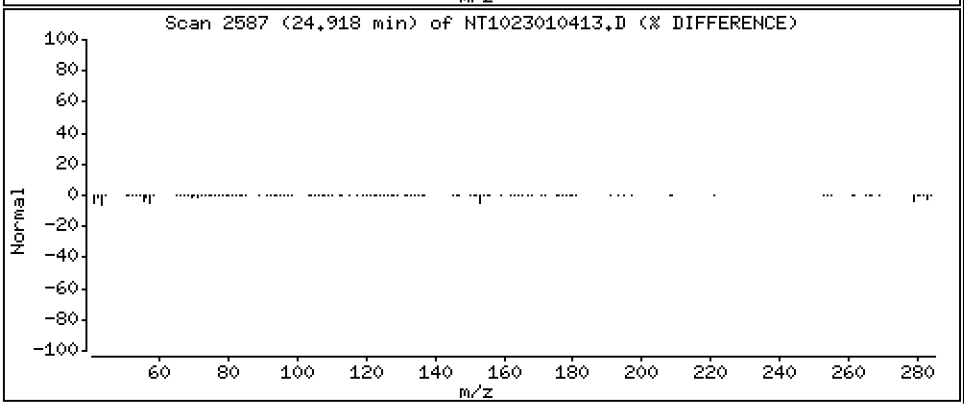












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

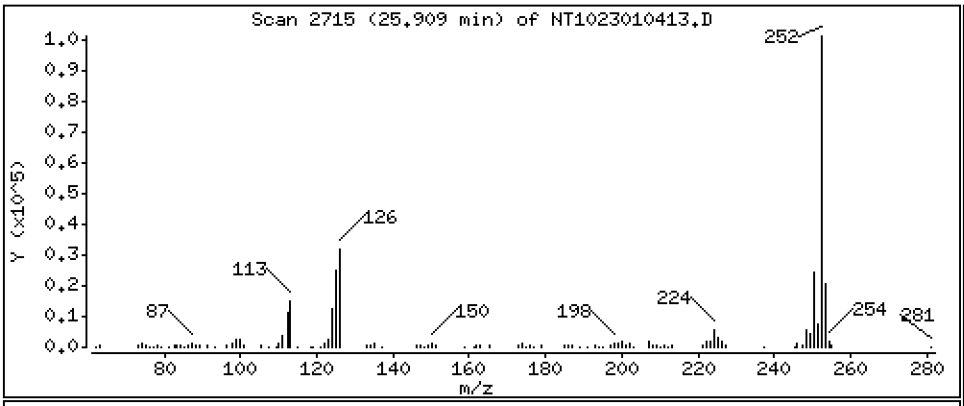
Operator: VTS

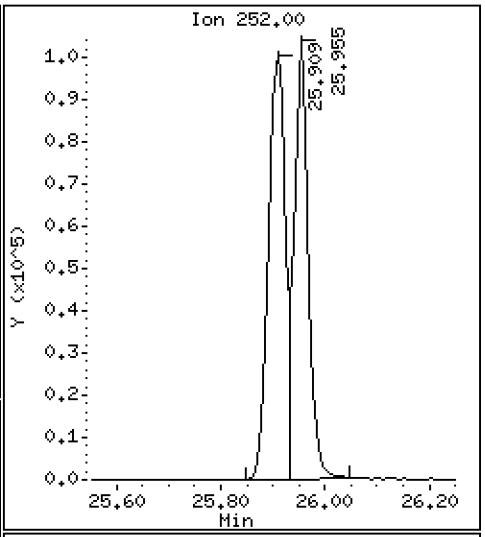
Column phase: ZB-5msi

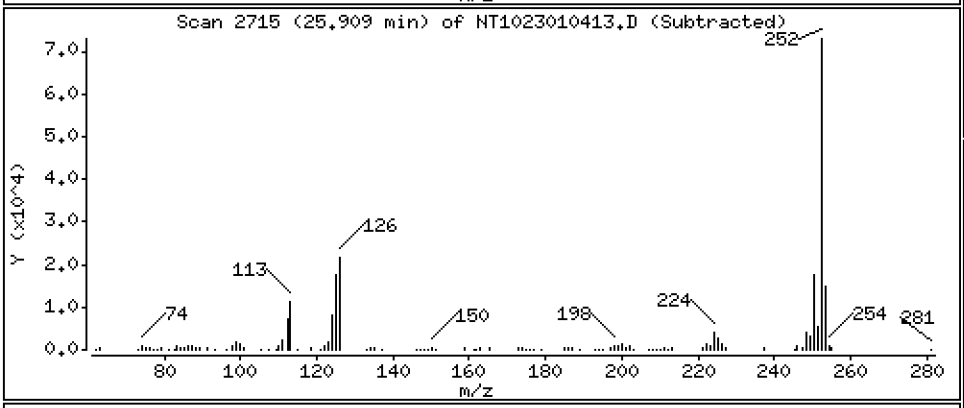
Column diameter: 0.25

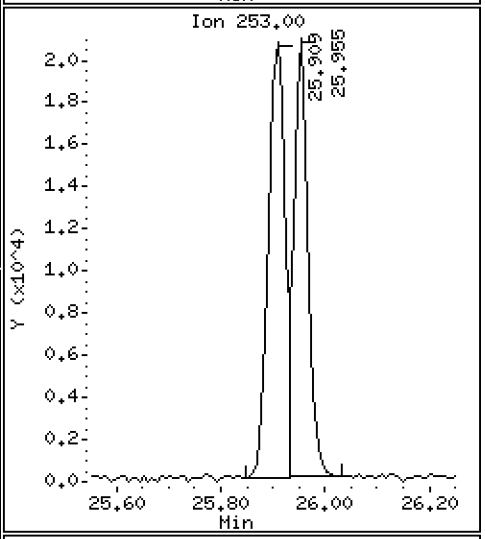
74 Benzo(b)fluoranthene

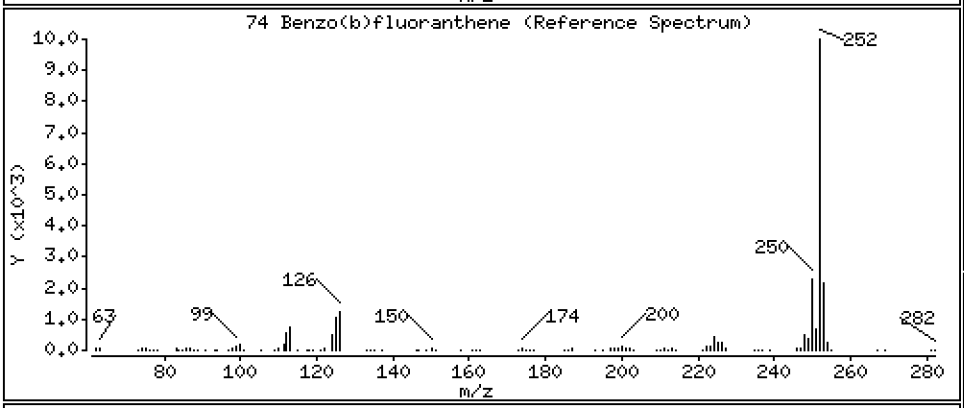
Concentration: 5.488 ug/mL

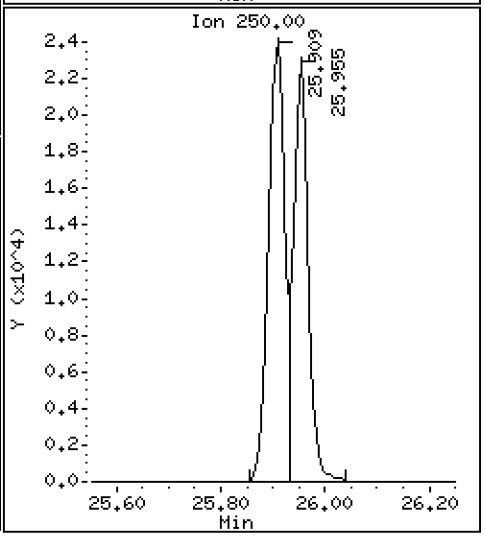


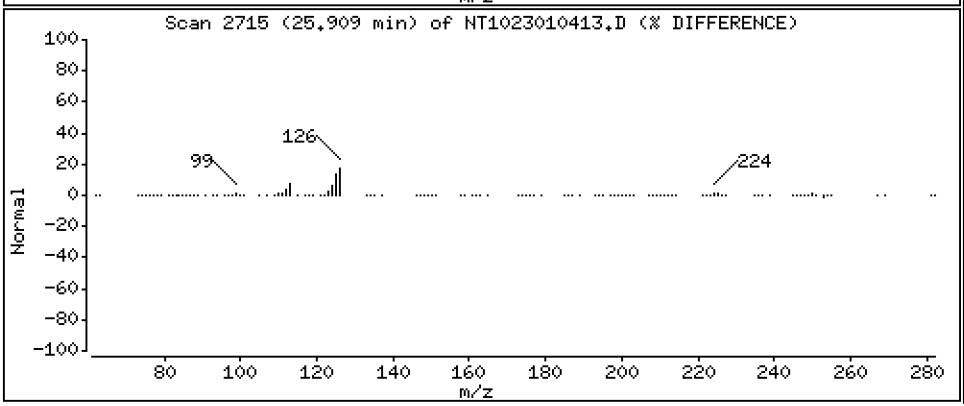












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

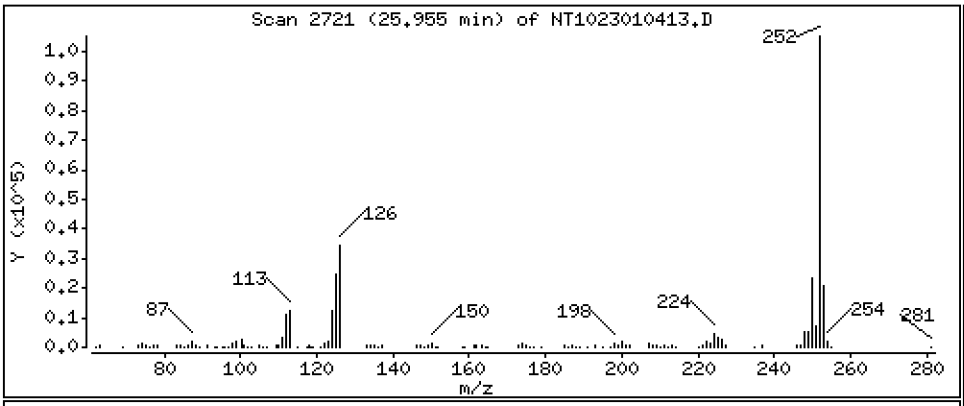
Operator: VTS

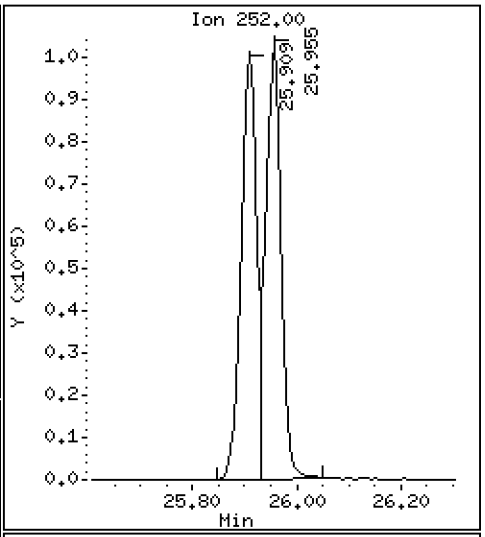
Column phase: ZB-5msi

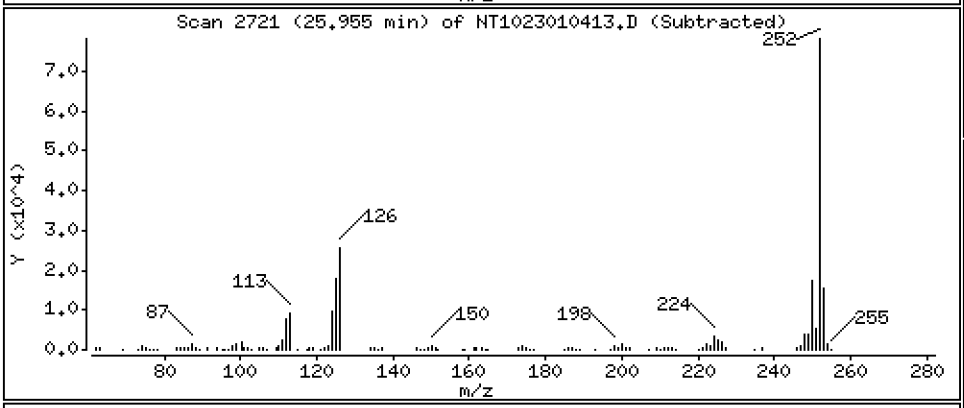
Column diameter: 0.25

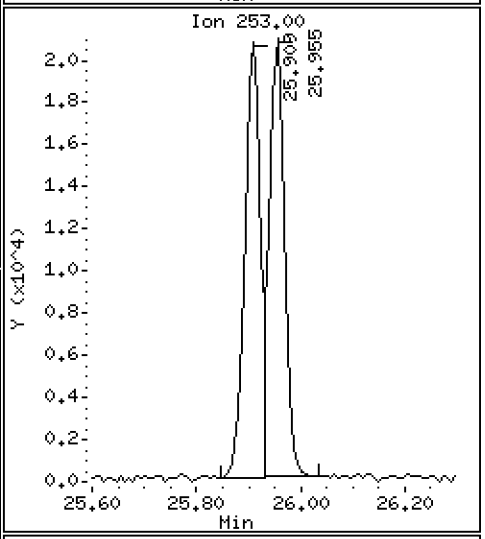
75 Benzo(k)fluoranthene

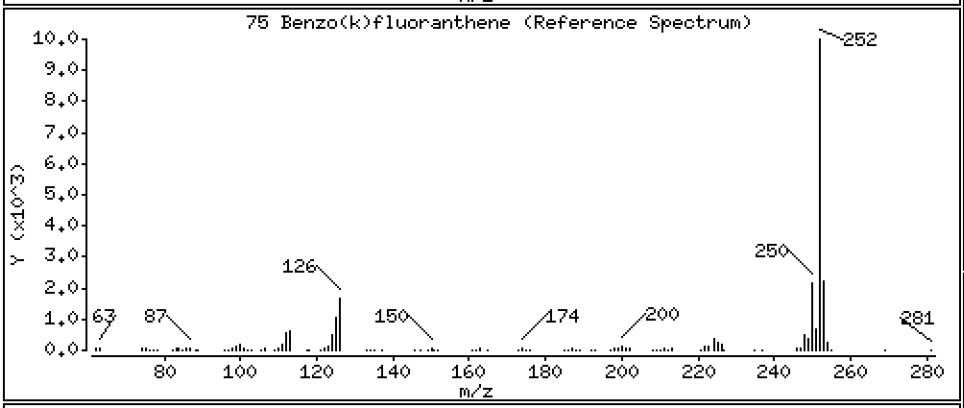
Concentration: 5.183 ug/mL

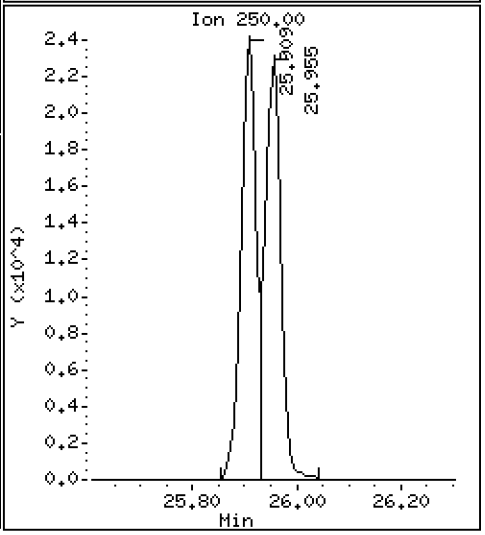


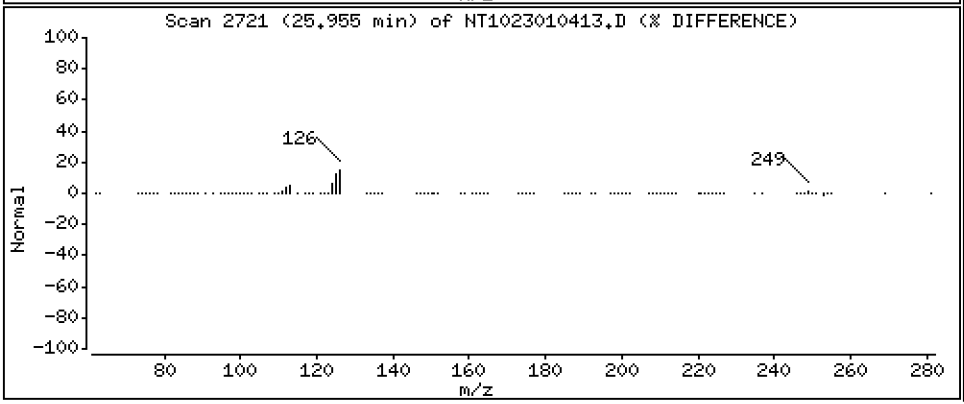












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

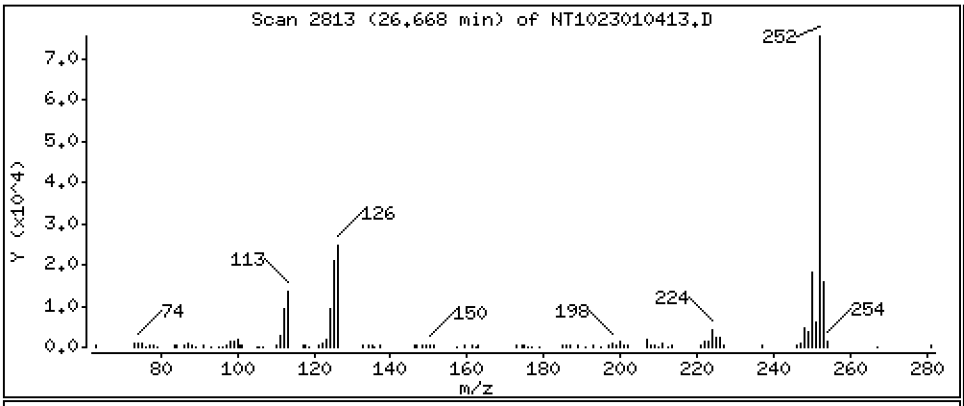
Operator: VTS

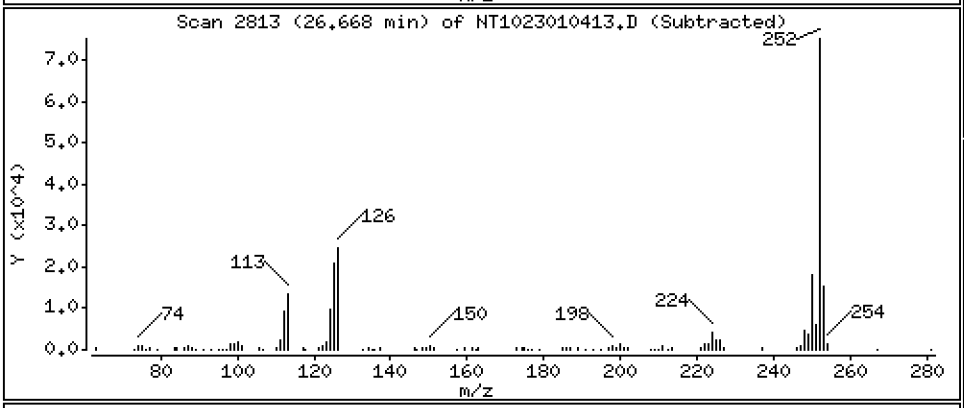
Column phase: ZB-5msi

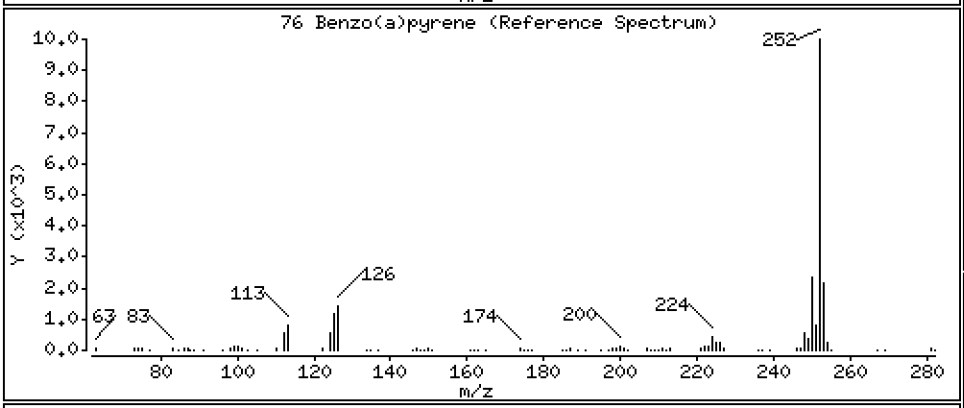
Column diameter: 0.25

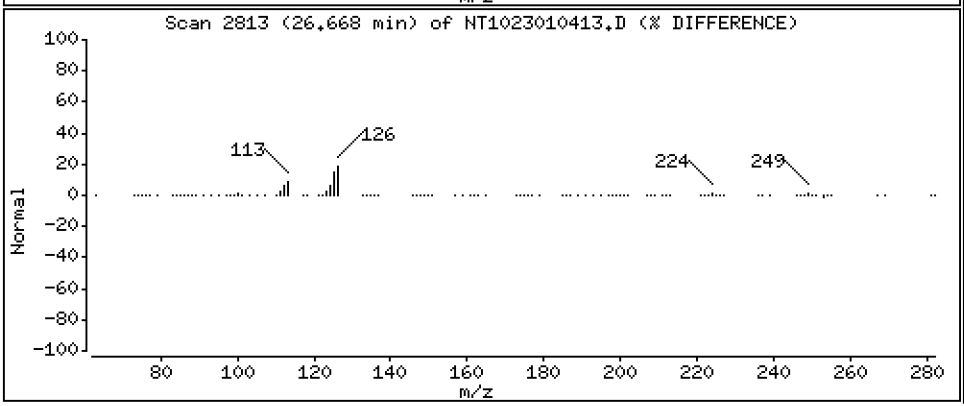
76 Benzo(a)pyrene

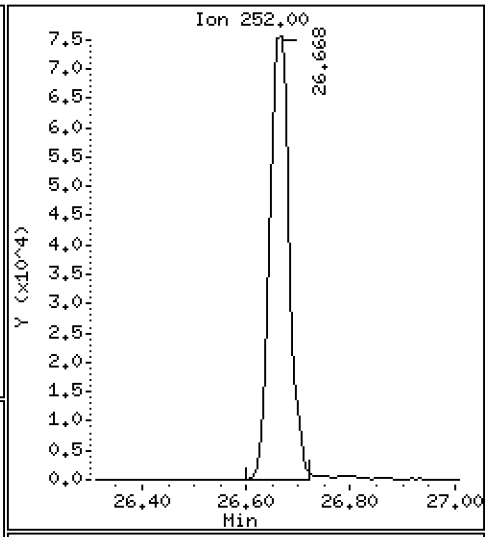
Concentration: 5.365 ug/mL

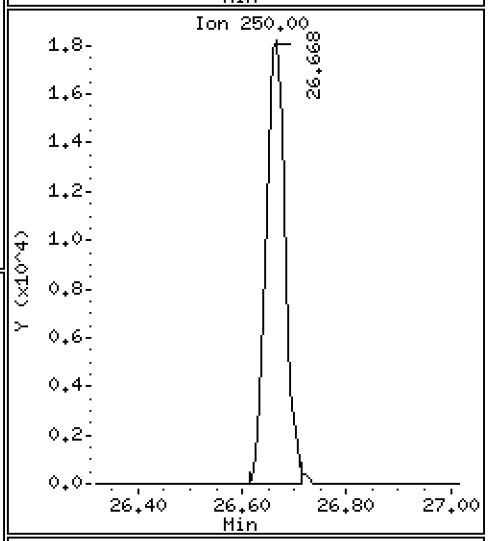


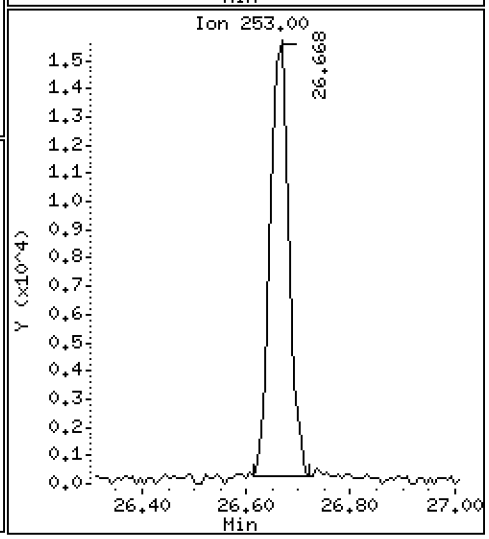












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

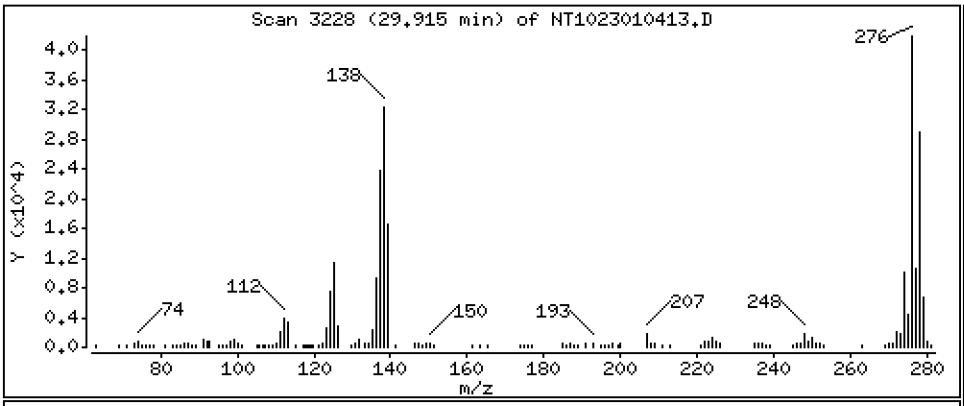
Operator: VTS

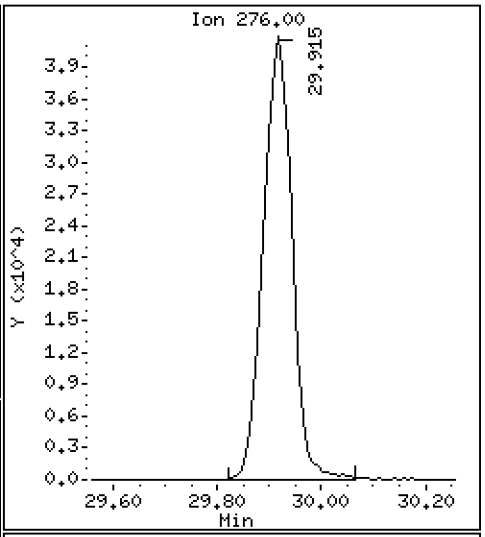
Column phase: ZB-5msi

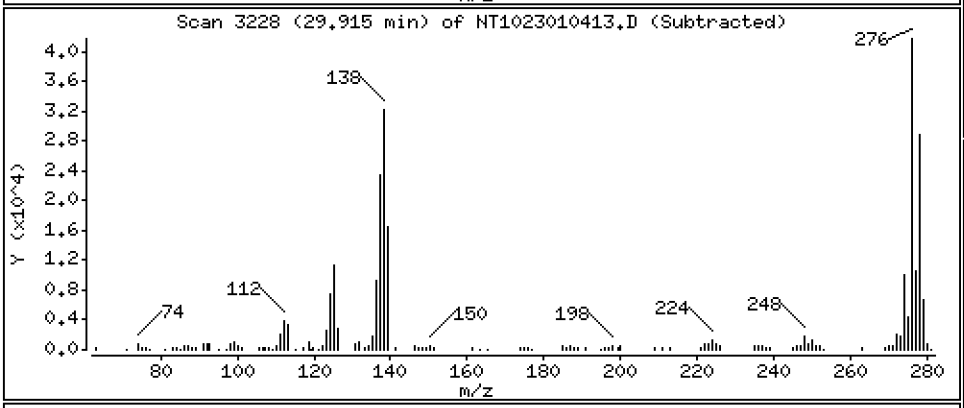
Column diameter: 0.25

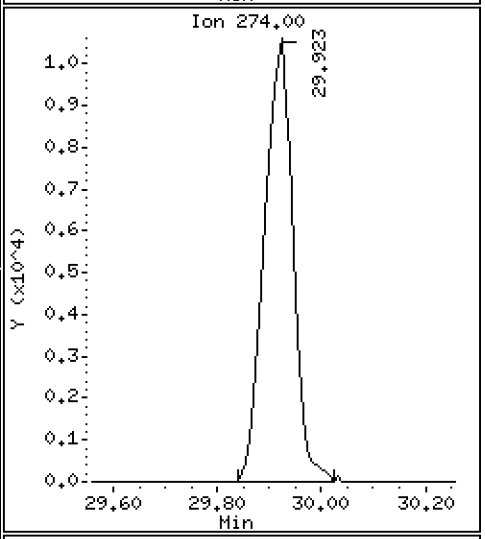
78 Indeno(1,2,3-cd)pyrene

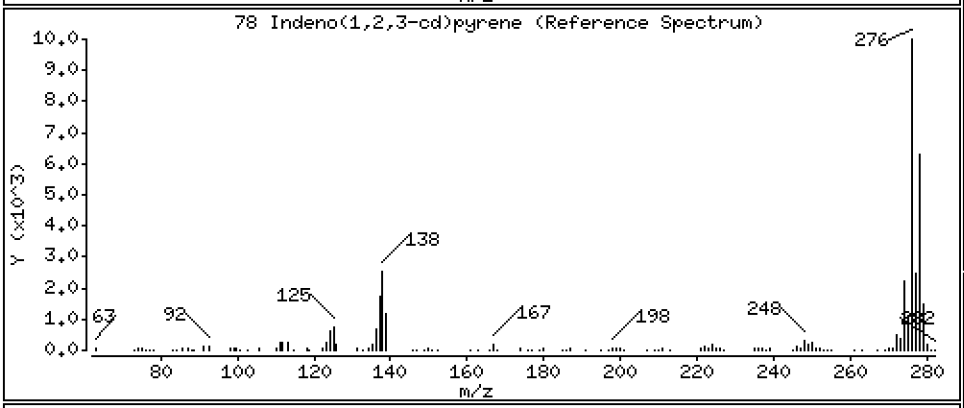
Concentration: 5.235 ug/mL

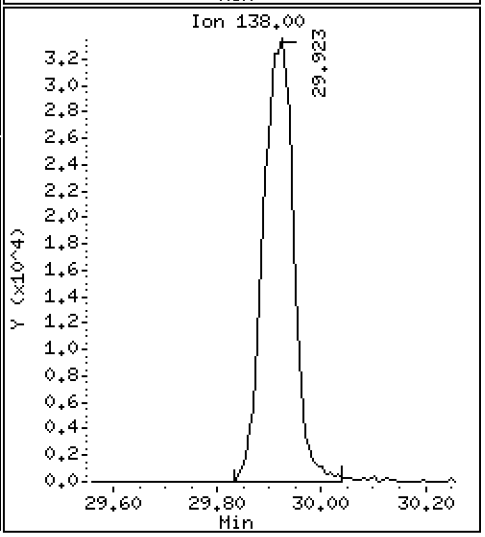


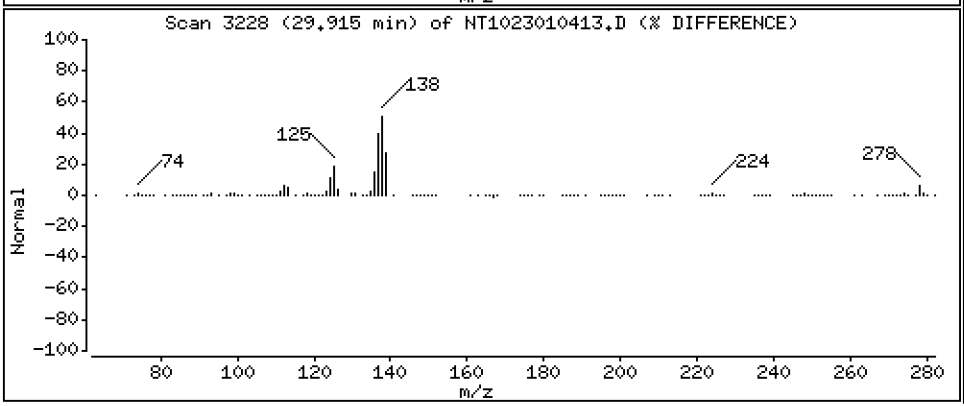












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

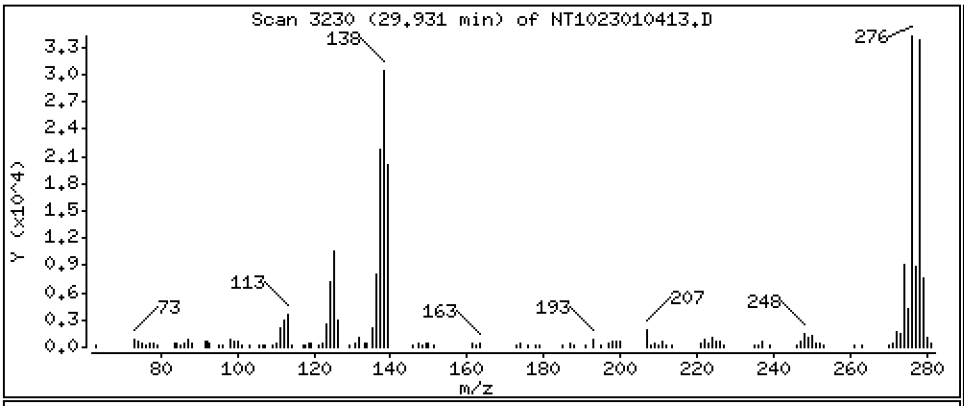
Operator: VTS

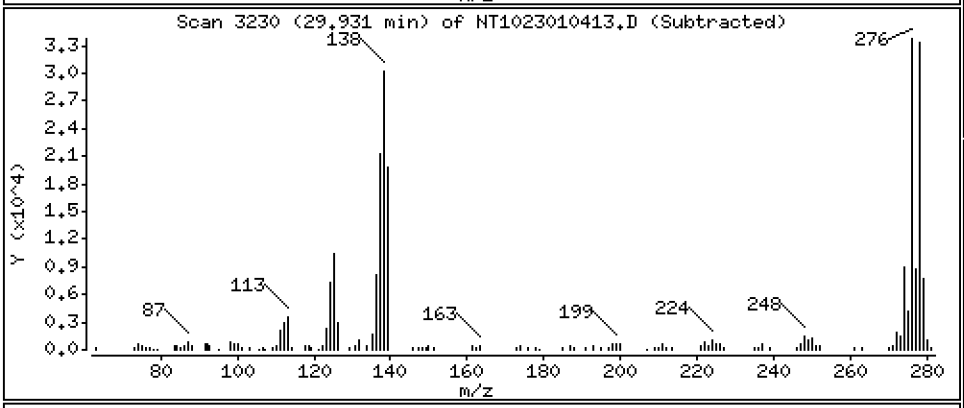
Column phase: ZB-5msi

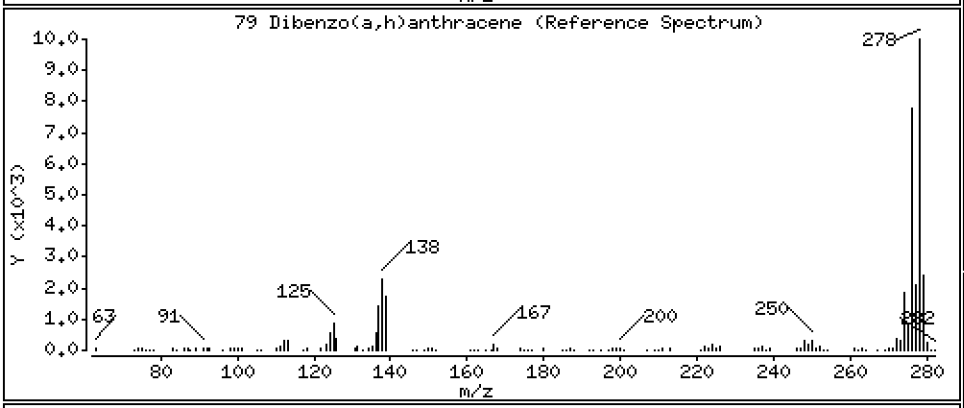
Column diameter: 0.25

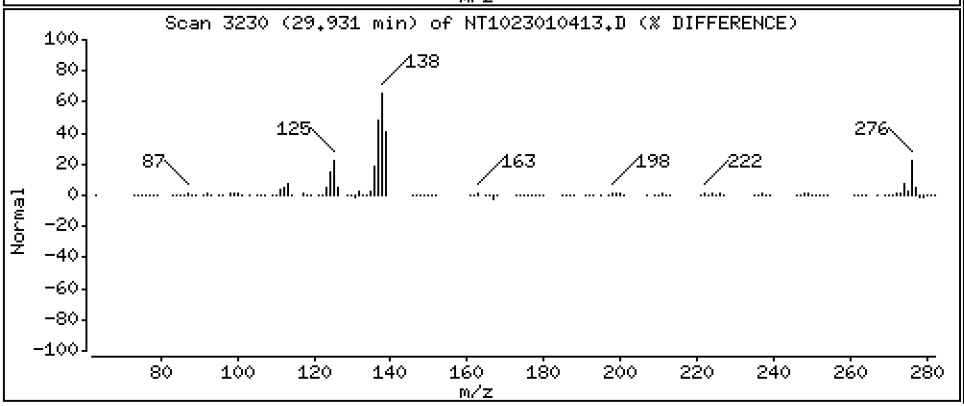
79 Dibenzo(a,h)anthracene

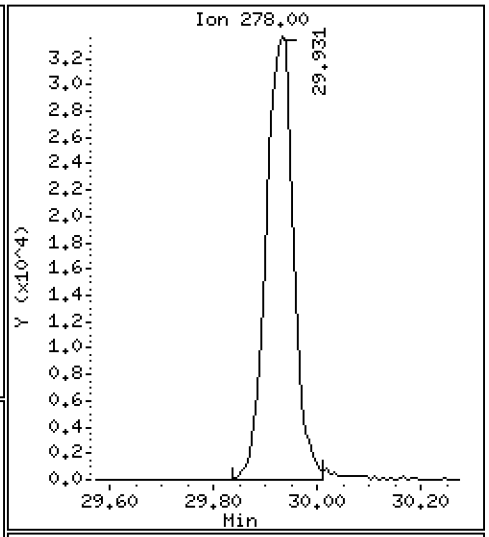
Concentration: 5.112 ug/mL

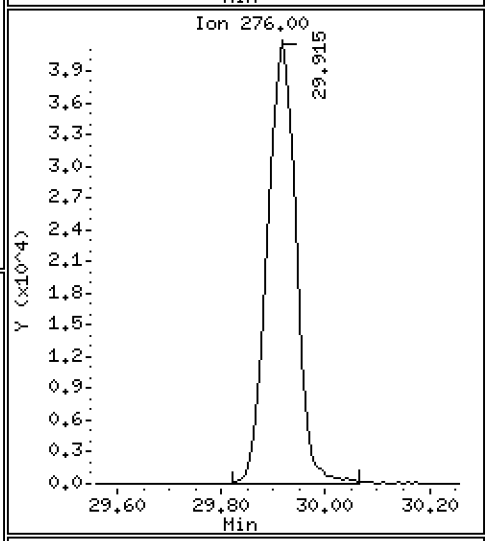


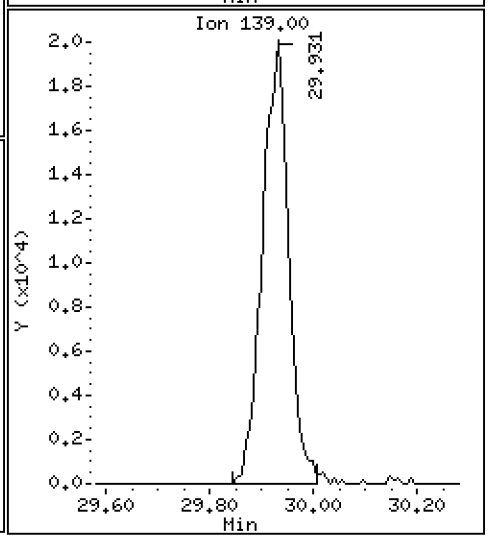












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

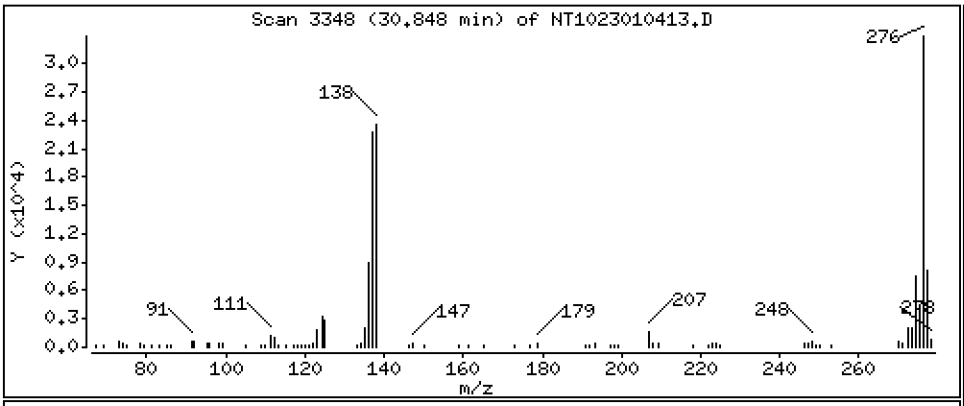
Operator: VTS

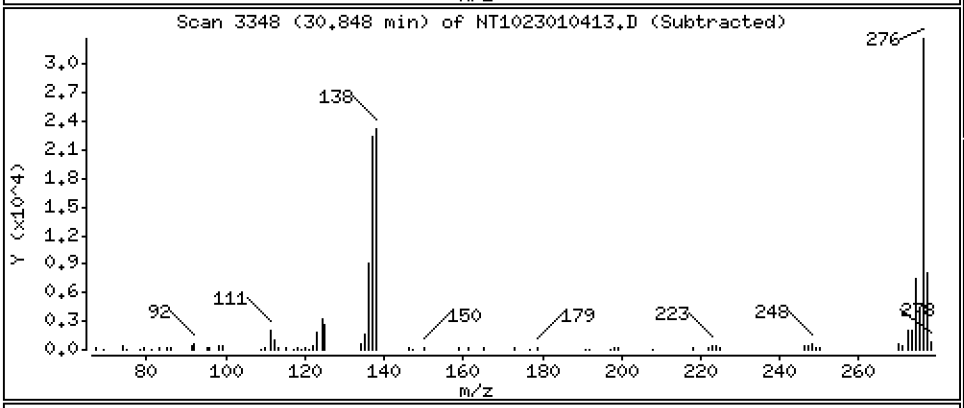
Column phase: ZB-5msi

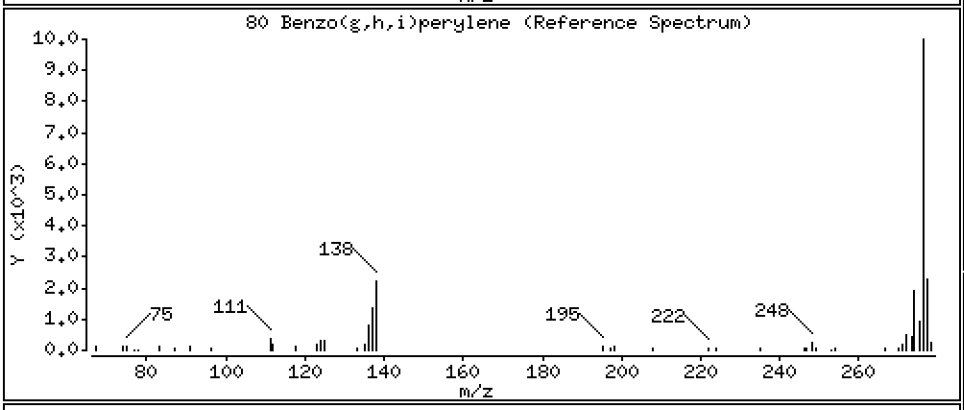
Column diameter: 0.25

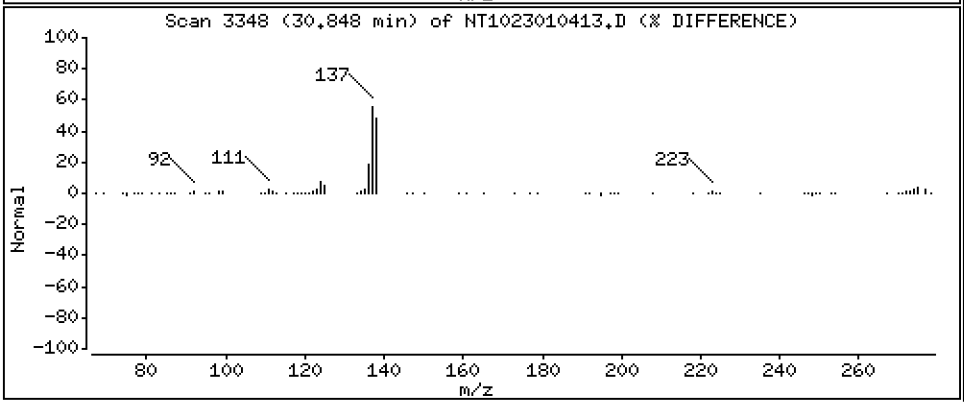
80 Benzo(g,h,i)perylene

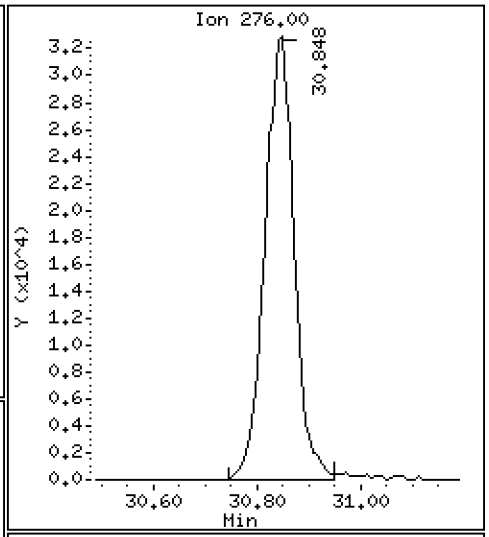
Concentration: 5.066 ug/mL

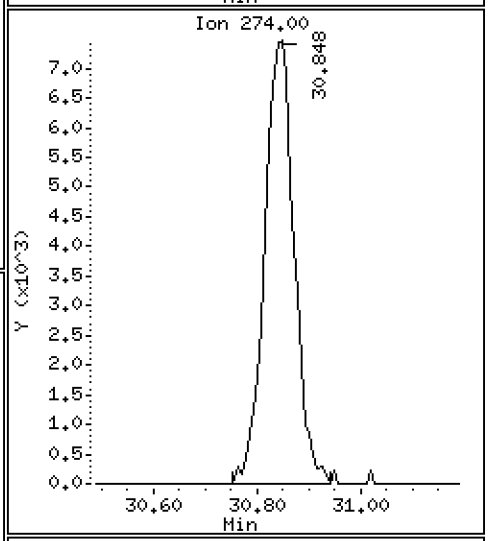


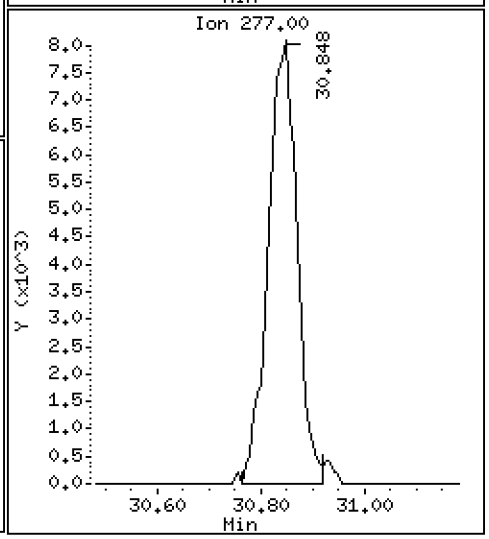












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

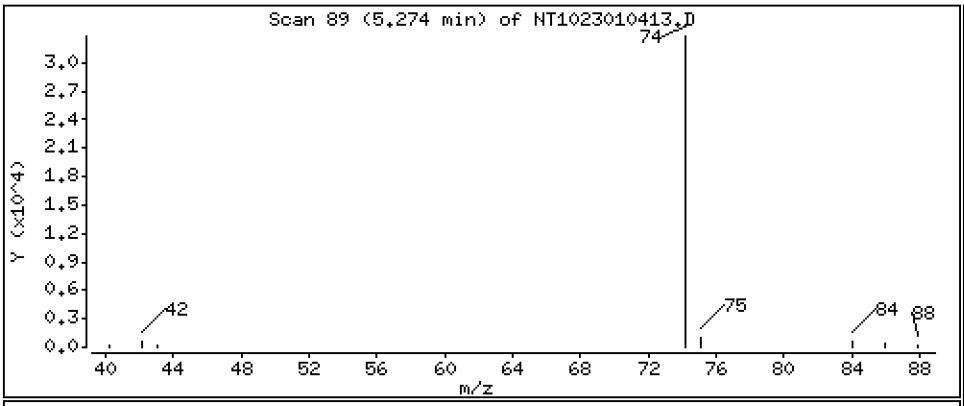
Operator: VTS

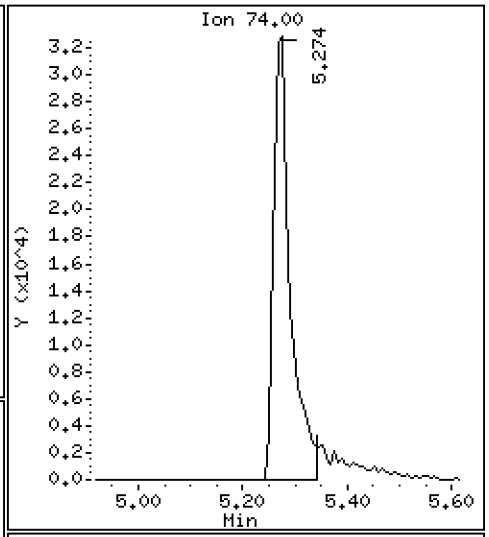
Column phase: ZB-5msi

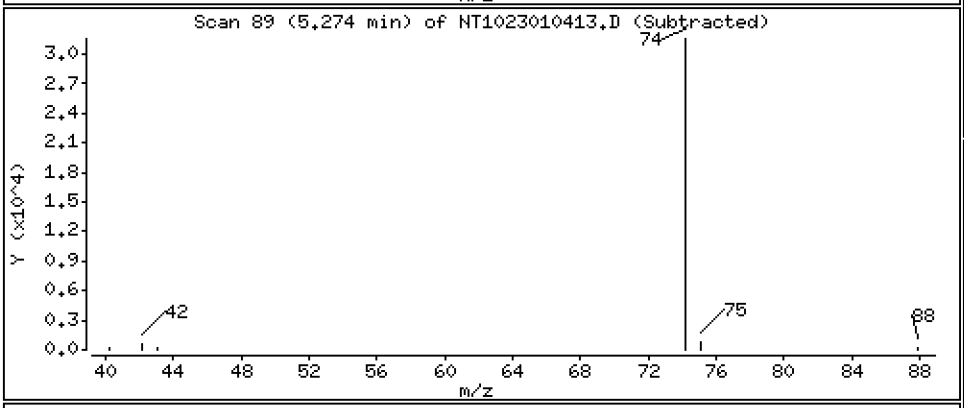
Column diameter: 0.25

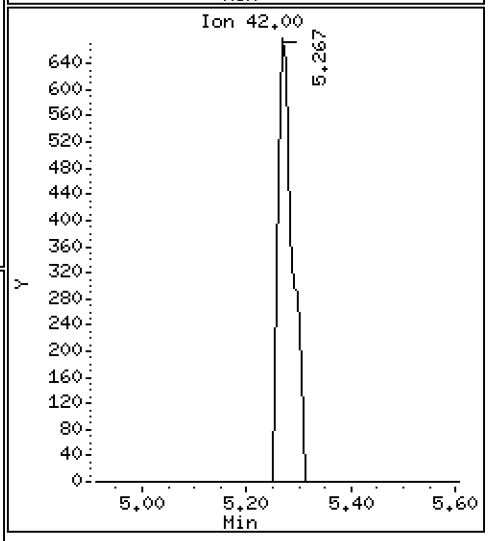
90 N-Nitrosodimethylamine

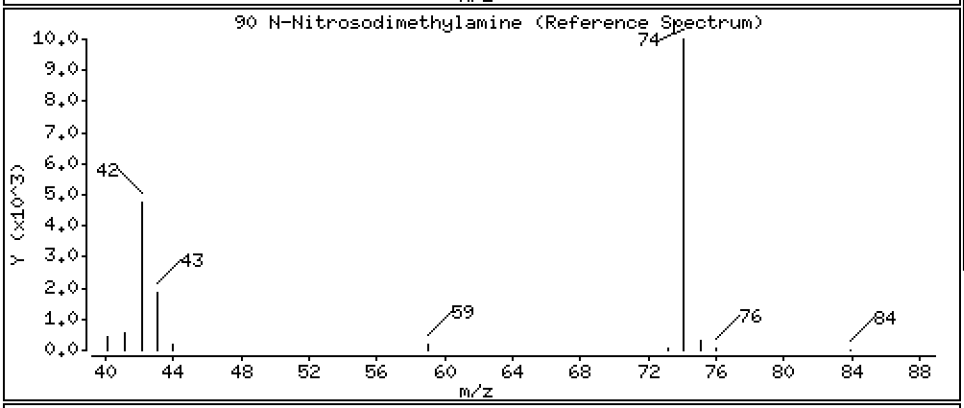
Concentration: 4.535 ug/mL

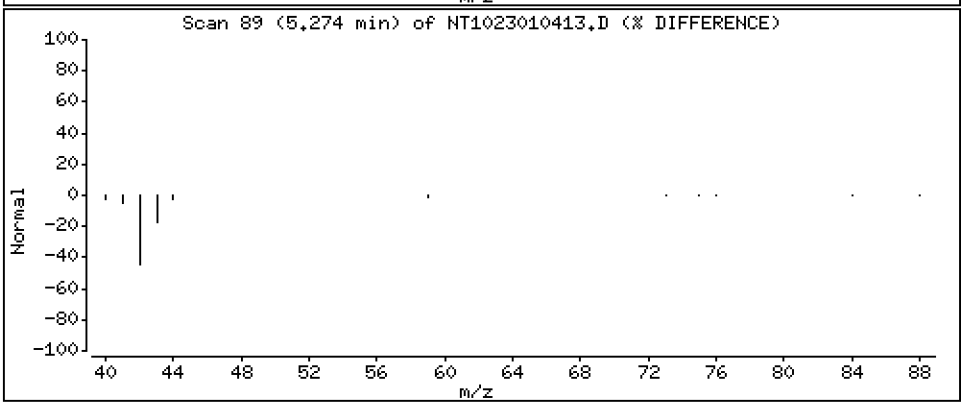












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

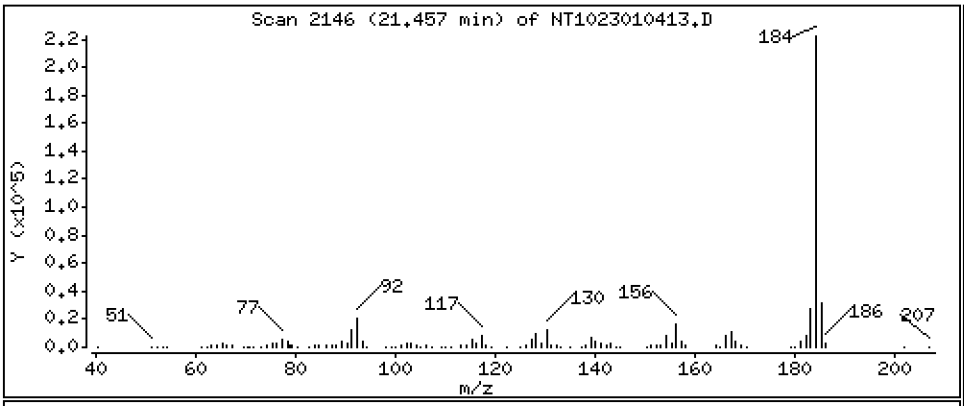
Operator: VTS

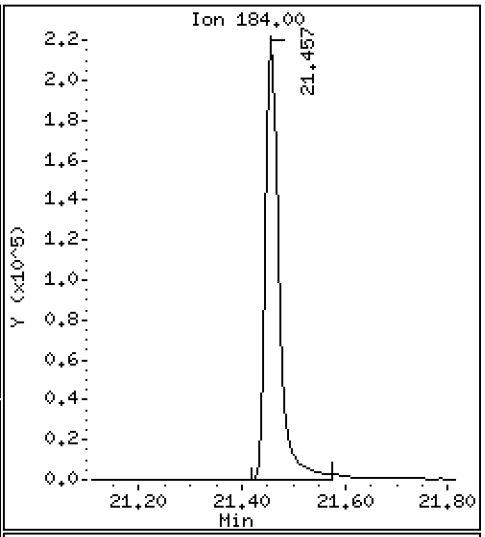
Column phase: ZB-5msi

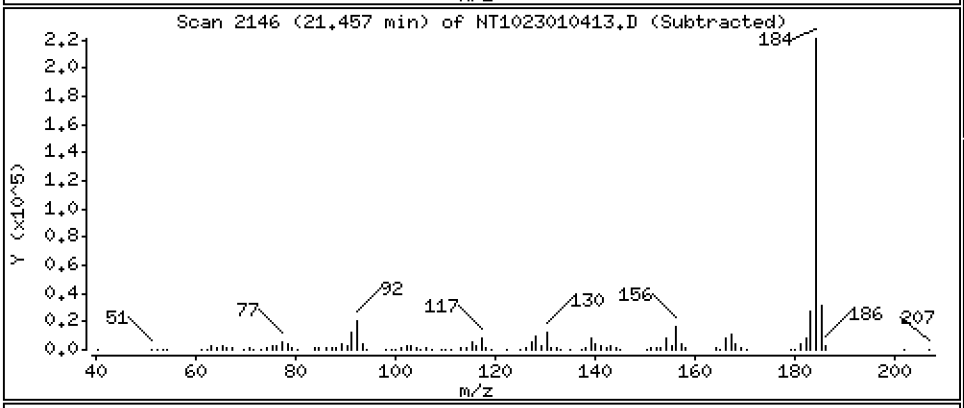
Column diameter: 0.25

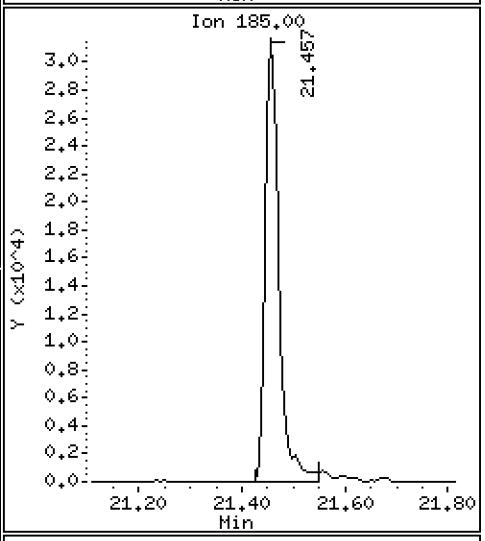
93 Benzidine

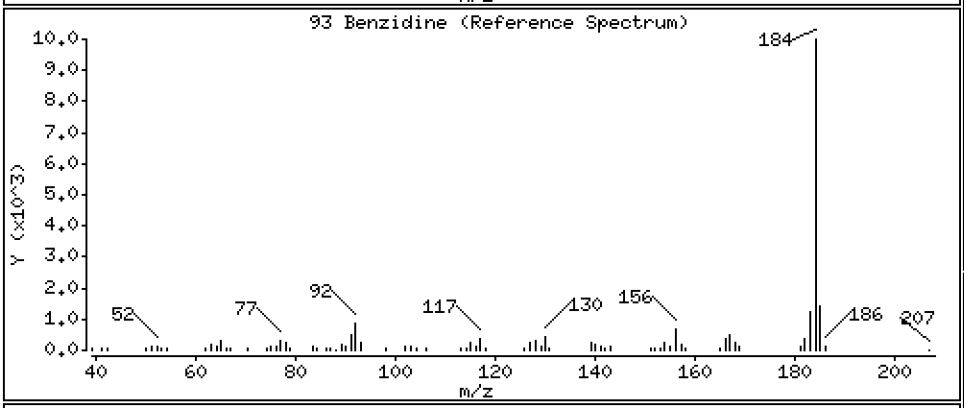
Concentration: 10.79 ug/mL

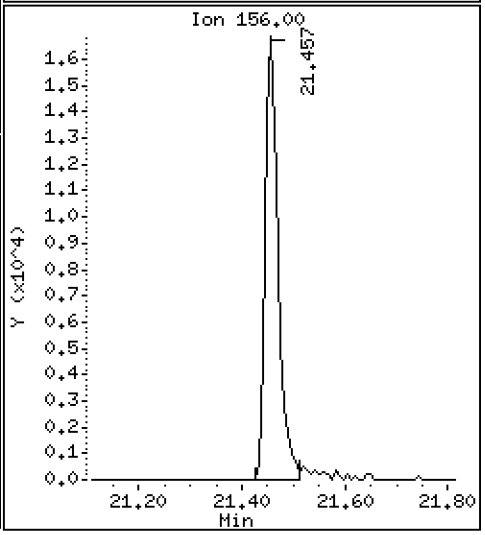


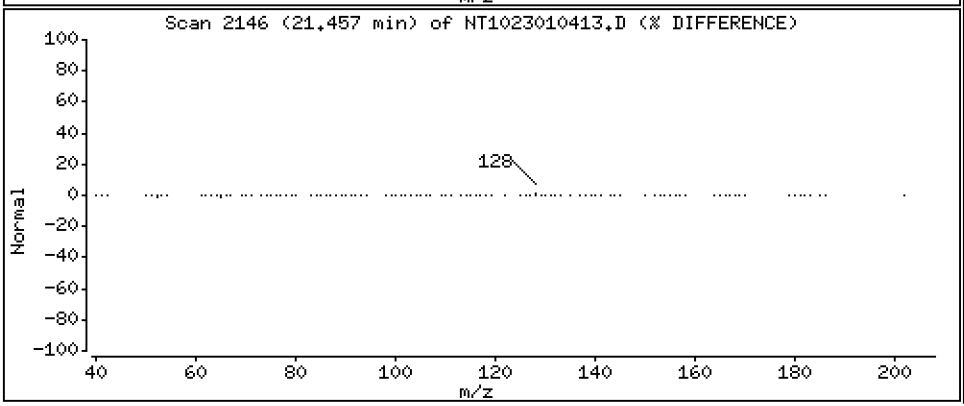












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

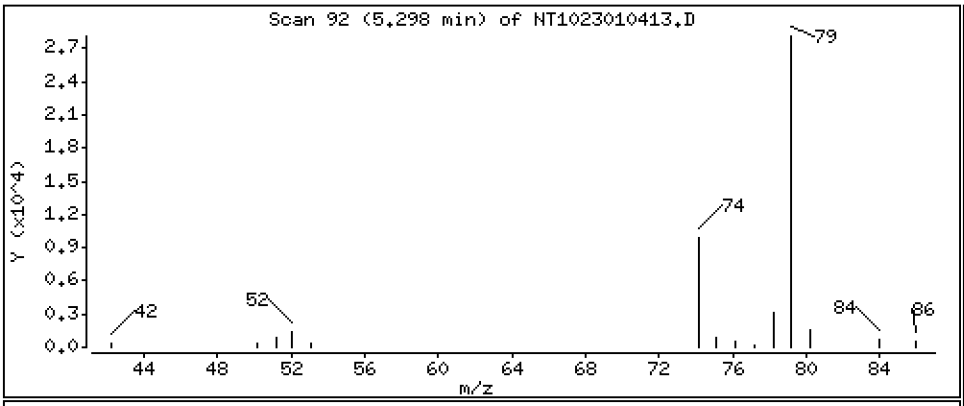
Operator: VTS

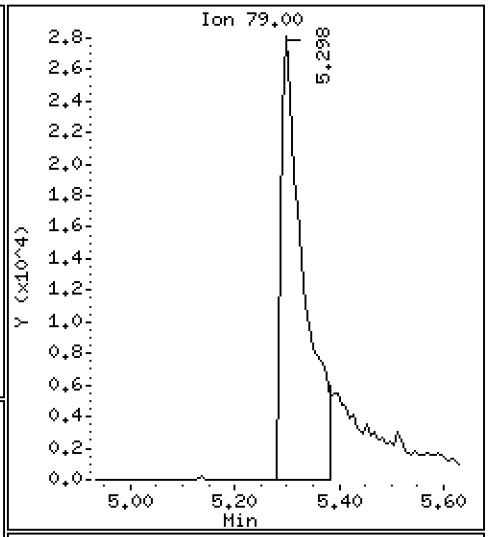
Column phase: ZB-5msi

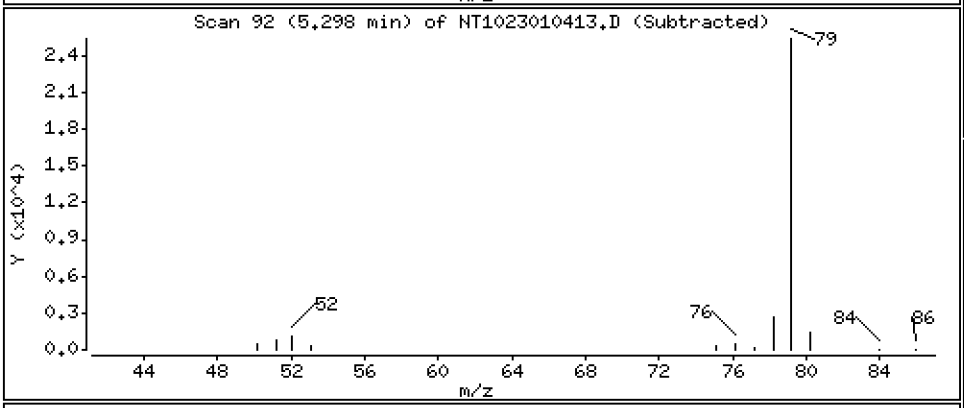
Column diameter: 0.25

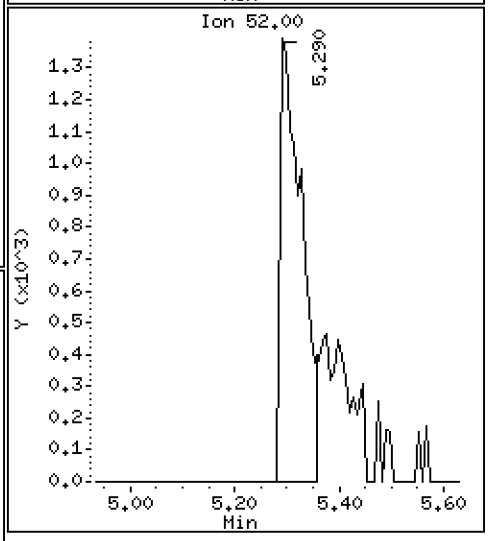
103 Pyridine

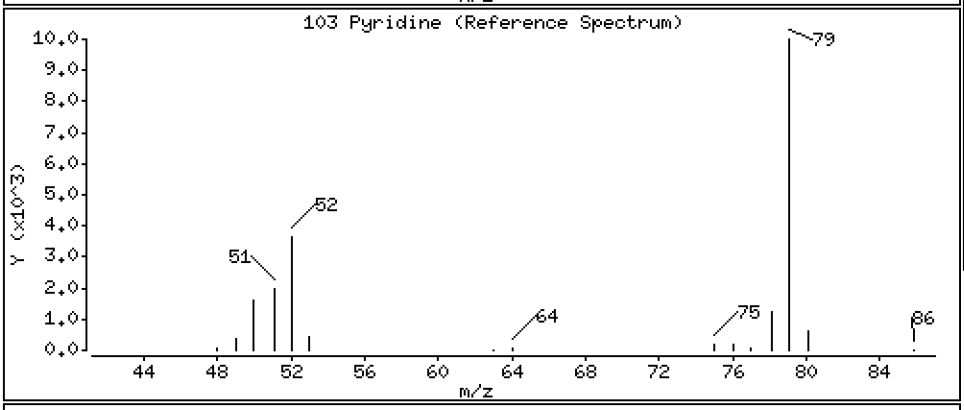
Concentration: 1.791 ug/mL

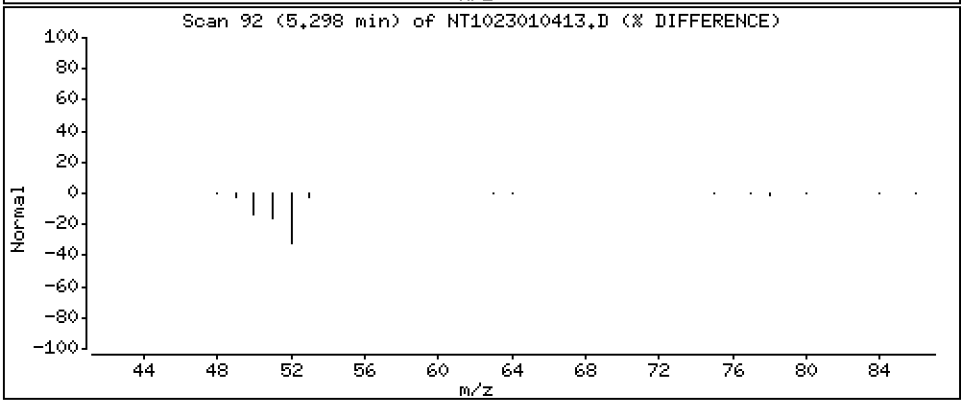












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

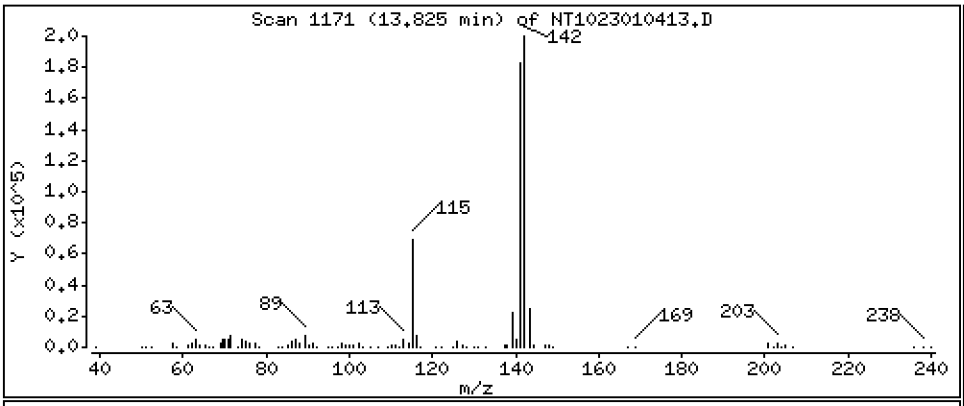
Operator: VTS

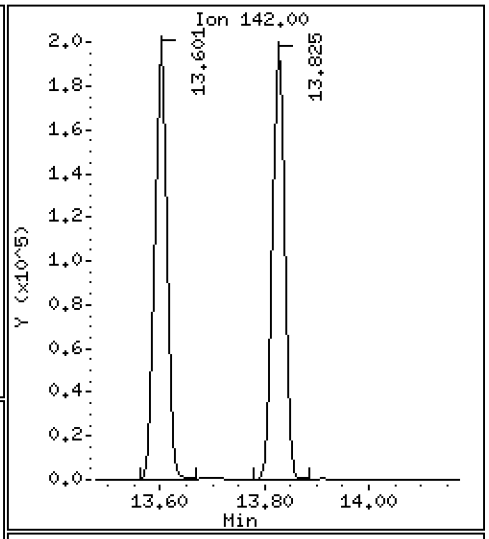
Column phase: ZB-5msi

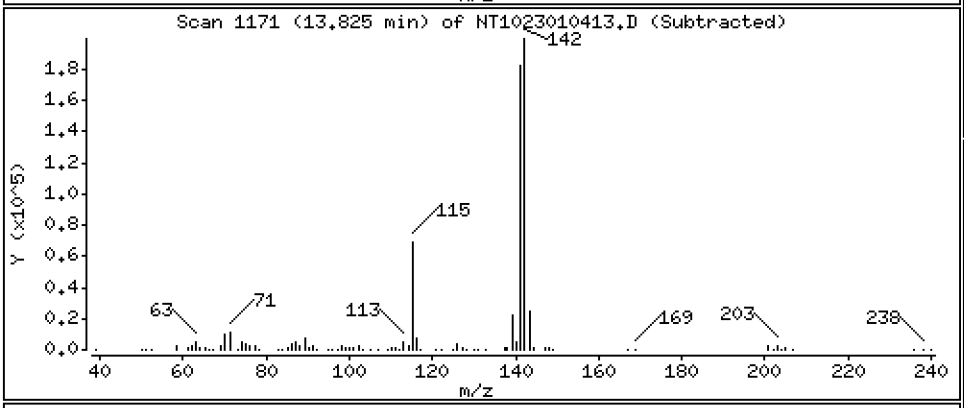
Column diameter: 0.25

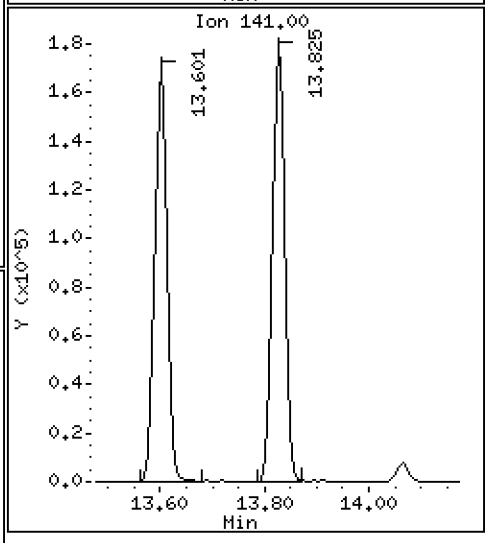
105 1-methylnaphthalene

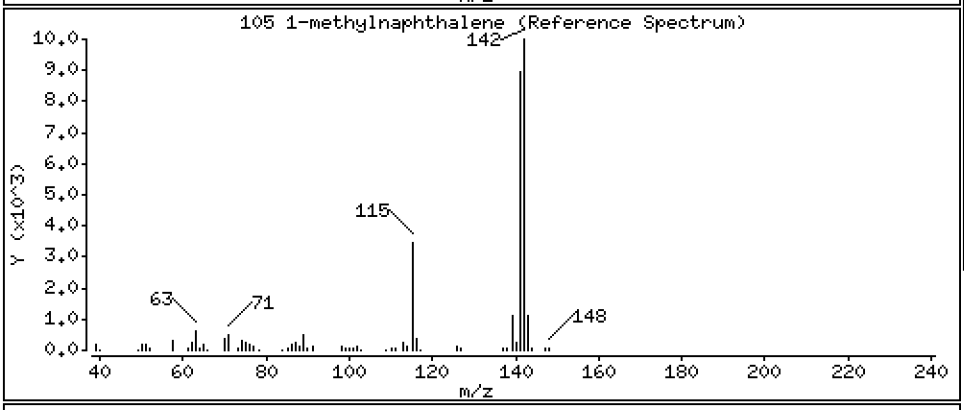
Concentration: 5.103 ug/mL

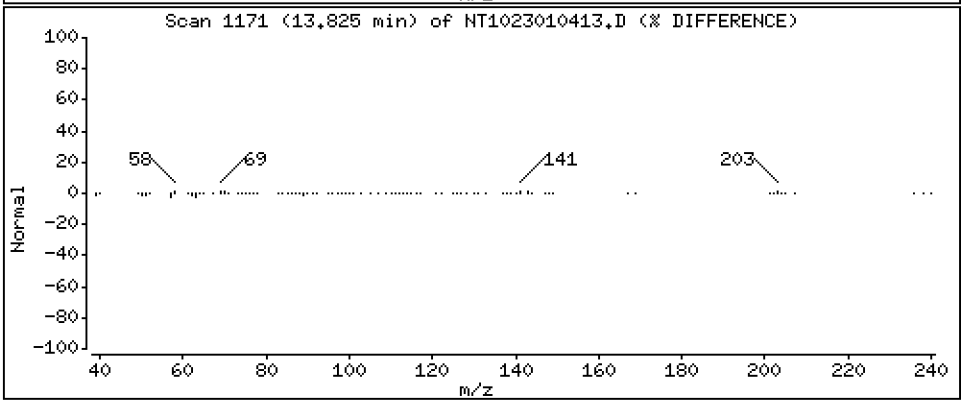












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

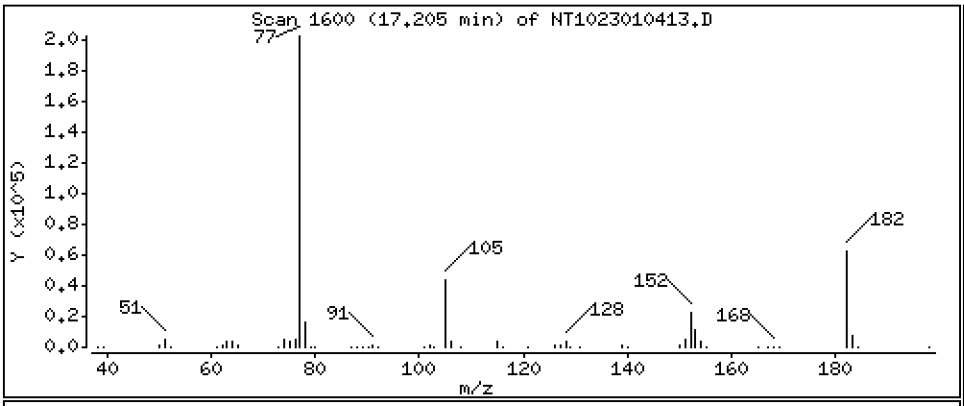
Operator: VTS

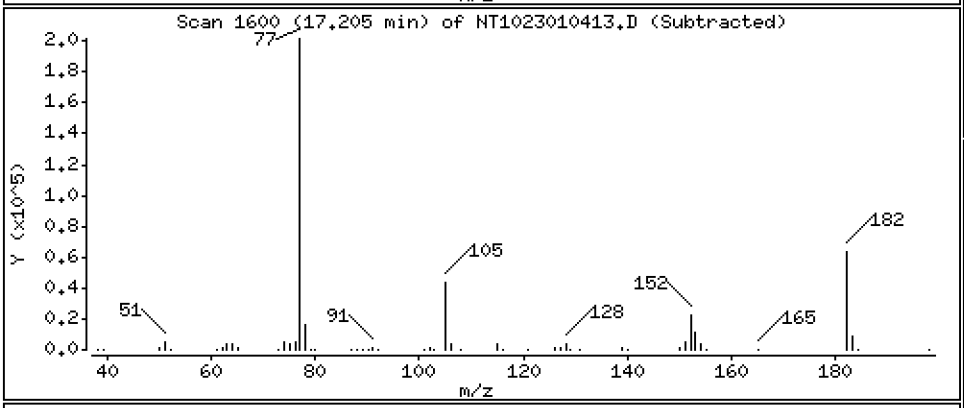
Column phase: ZB-5msi

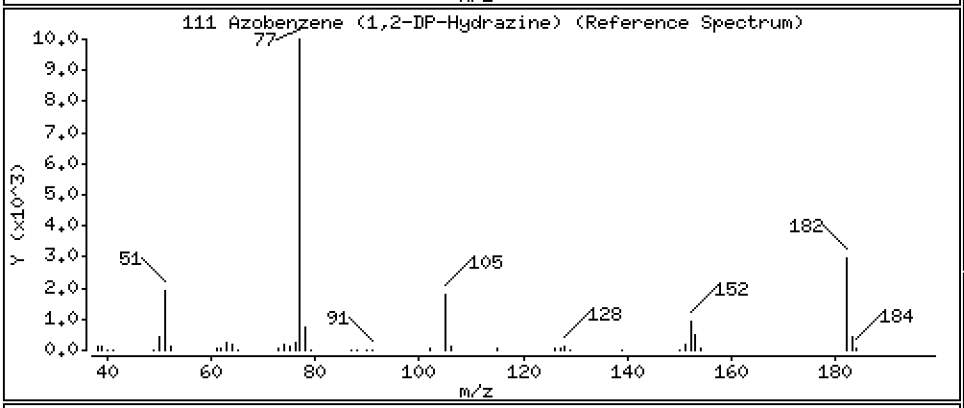
Column diameter: 0.25

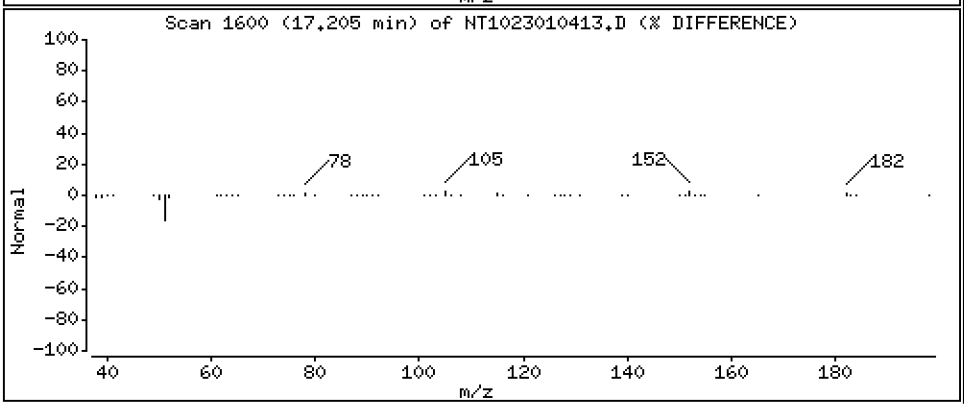
111 Azobenzene (1,2-DP-Hydrazine)

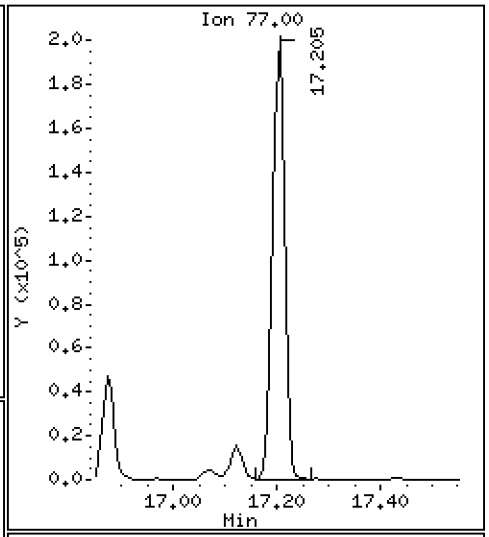
Concentration: 4.878 ug/mL

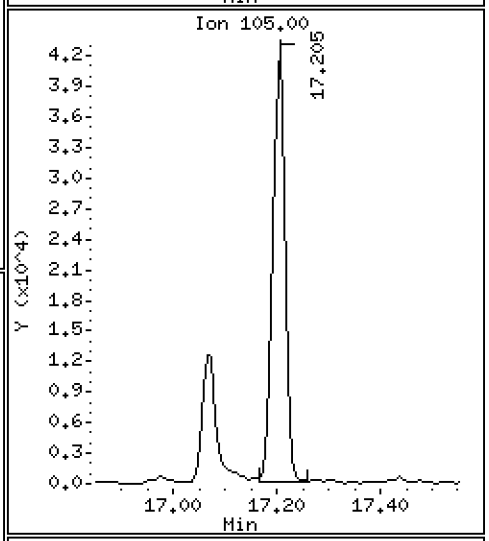


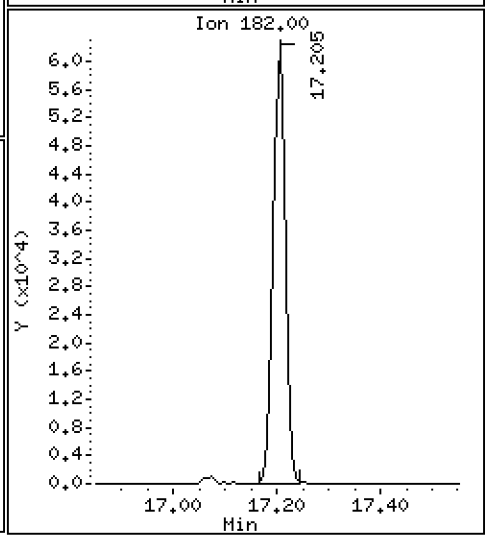












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

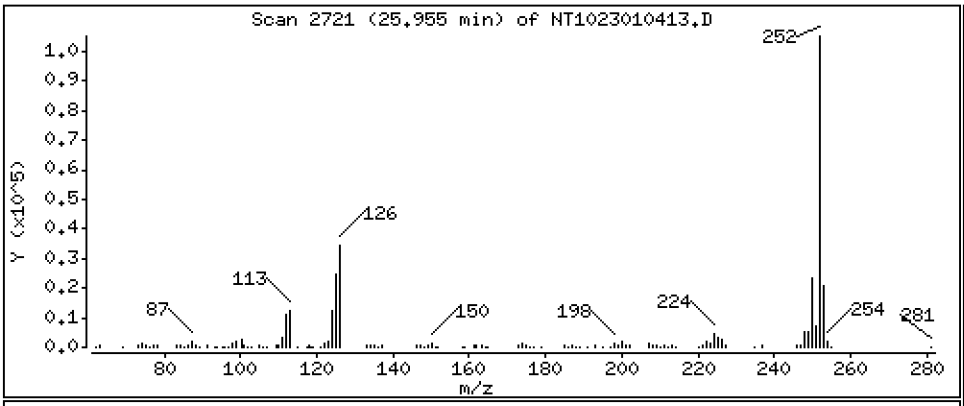
Operator: VTS

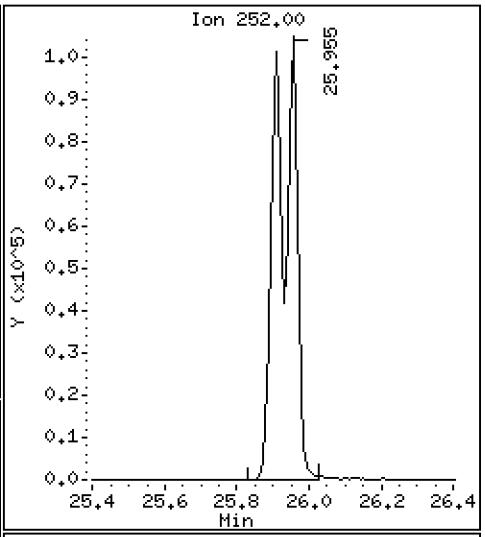
Column phase: ZB-5msi

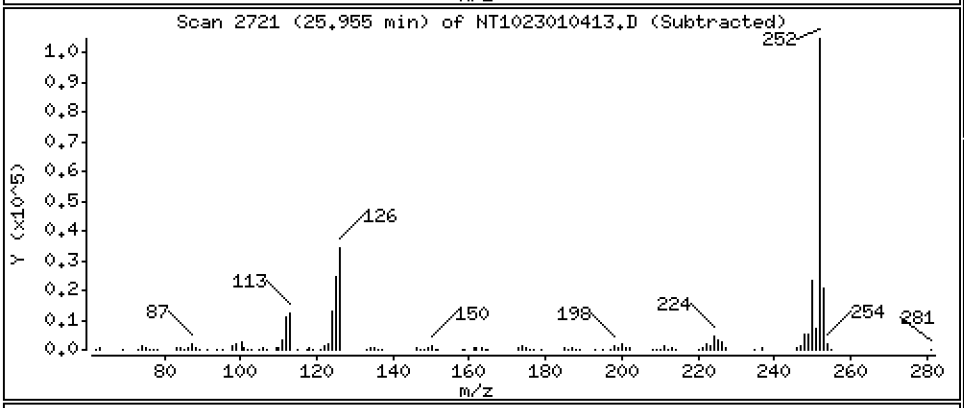
Column diameter: 0.25

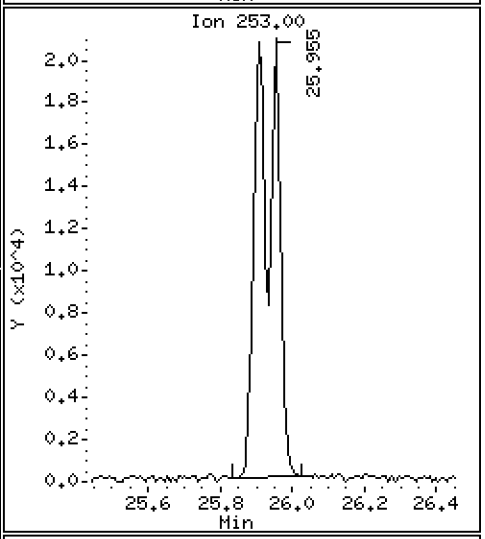
187 Total Benzofluoranthenes

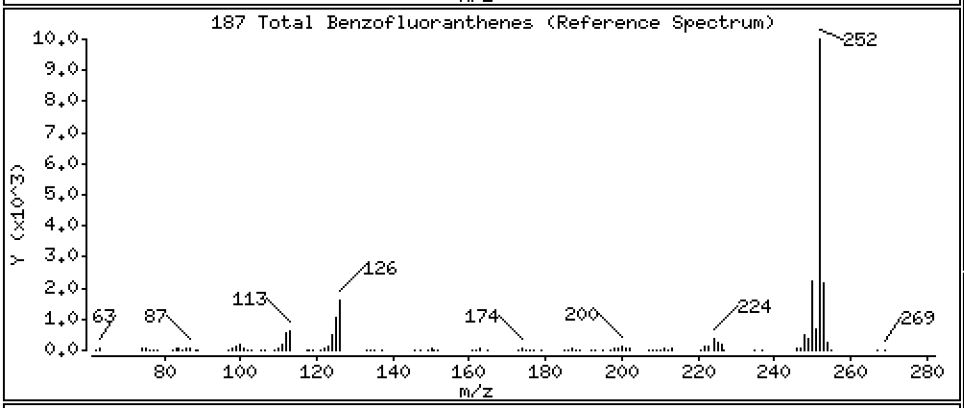
Concentration: 10.68 ug/mL

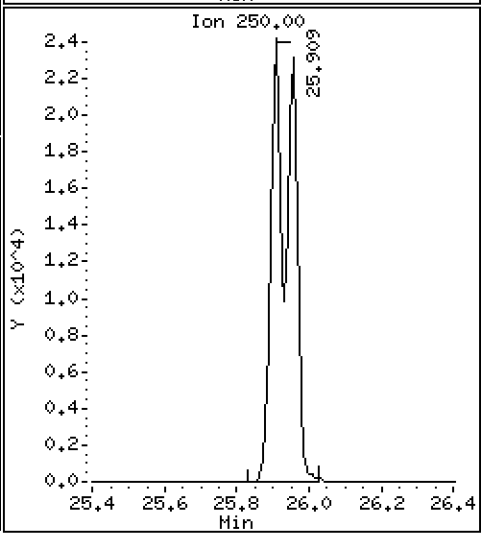


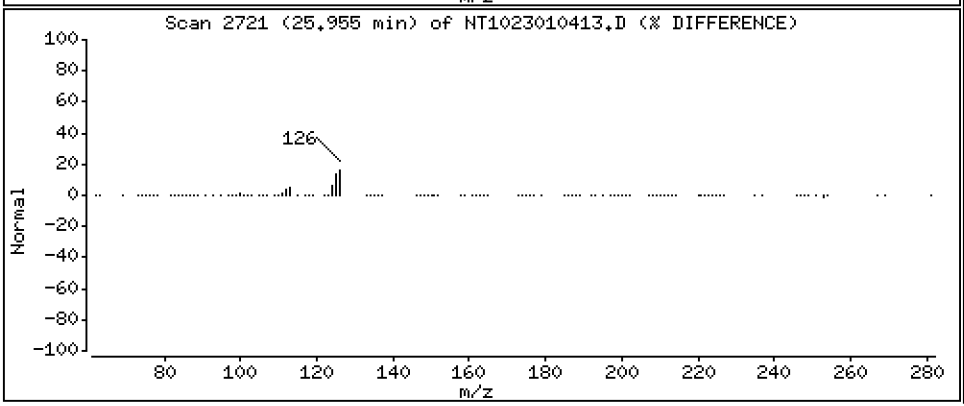












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

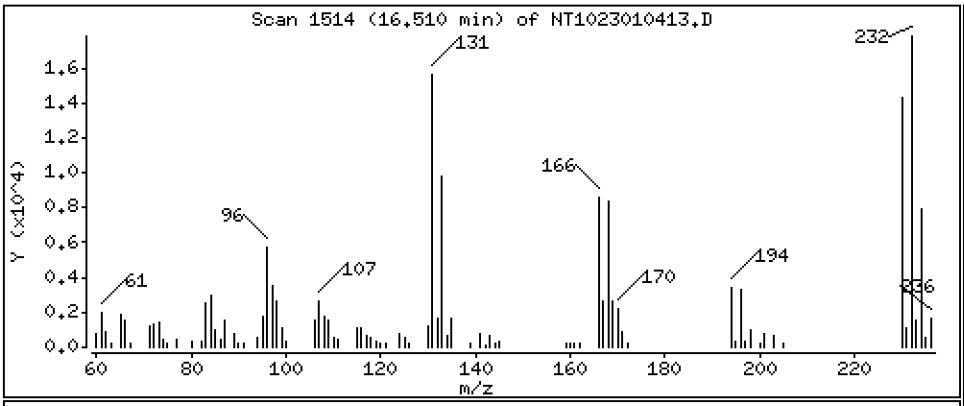
Operator: VTS

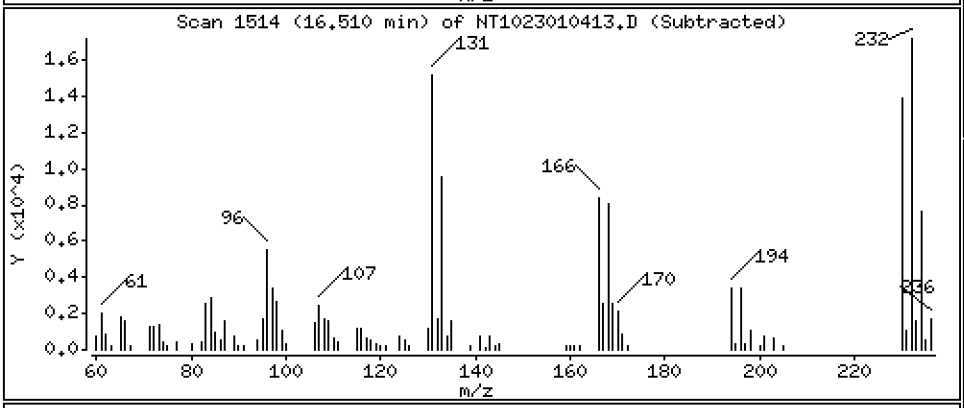
Column phase: ZB-5msi

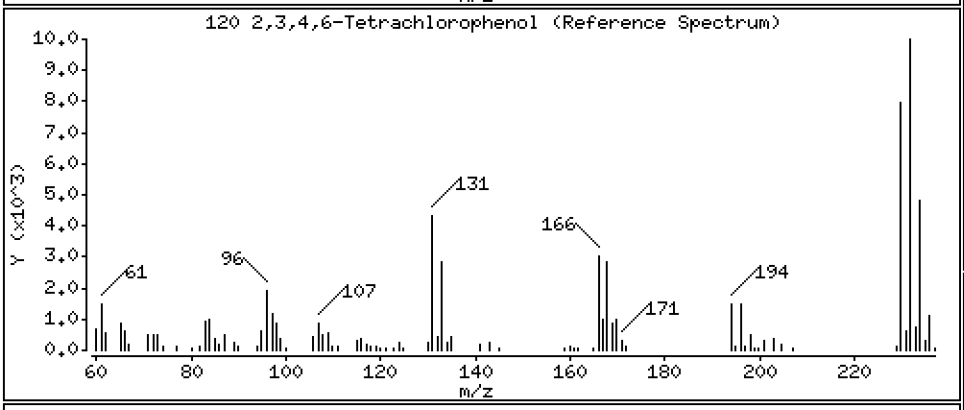
Column diameter: 0.25

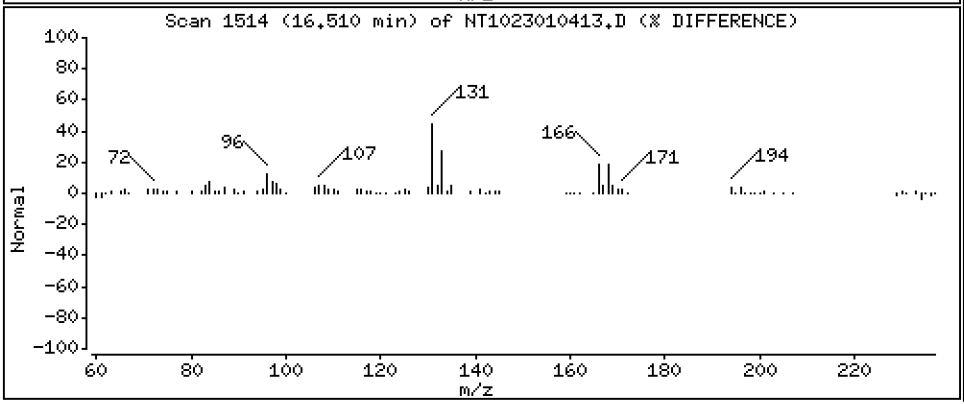
120 2,3,4,6-Tetrachlorophenol

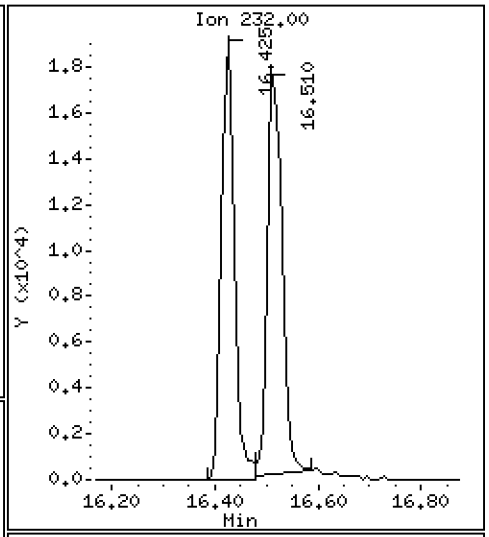
Concentration: 4.060 ug/mL

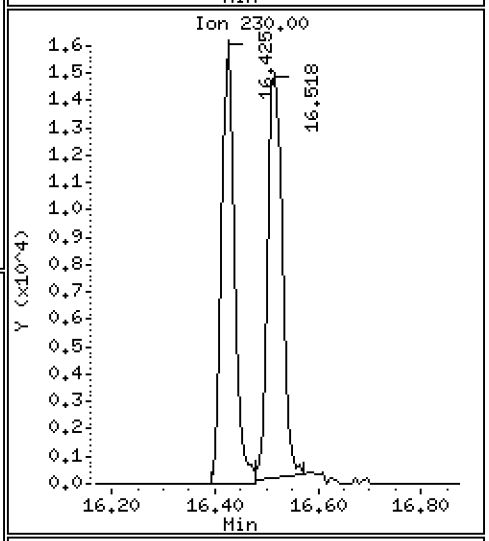


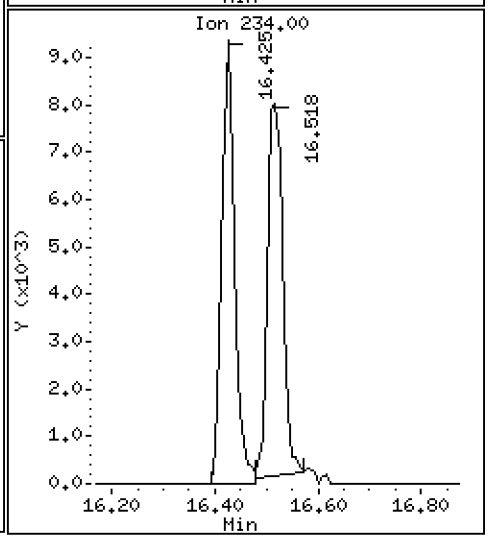












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 04-JAN-2023 16:58
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	224715	7.64185	7.642
$	2 Phenol-d5	99	8.989	8.989	(0.930)	267575	7.58597	7.586
	3 Phenol	94	9.012	9.012	(0.933)	158785	4.71880	4.719
$	5 2-Chlorophenol-d4	132	9.298	9.298	(0.962)	258199	8.46951	8.470
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.951)	138910	4.78072	4.781
	6 2-Chlorophenol	128	9.329	9.329	(0.966)	166488	5.15267	5.153
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	170615	5.03039	5.030
*	8 1,4-Dichlorobenzene-d4	152	9.661	9.670	(1.000)	88595	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.004)	144841	4.96598	4.966
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.039)	99739	5.25220	5.252
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.041)	146003	4.93320	4.933
	11 Benzyl alcohol	108	9.925	9.925	(1.027)	74707	4.69913	4.699
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.058)	48379	5.55091	5.551
	13 2-Methylphenol	108	10.135	10.135	(1.049)	94252	4.16263	4.163
	17 Hexachloroethane	117	10.655	10.663	(1.103)	64725	5.05461	5.055
	16 N-Nitroso-di-n-propylamine	70	10.476	10.477	(1.084)	61755	5.18101	5.181
	15 4-Methylphenol	108	10.414	10.391	(1.078)	72303	4.57347	4.573
$	18 Nitrobenzene-d5	82	10.756	10.764	(0.884)	118184	5.02398	5.024
	19 Nitrobenzene	77	10.795	10.795	(0.888)	105765	4.93221	4.932
	20 Isophorone	82	11.237	11.237	(0.924)	224608	6.64004	6.640
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	88380	4.47939	4.479
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	102048	3.77028	3.770
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	148405	6.33196	6.332
	24 Benzoic acid	105	11.450	11.450	(0.942)	3528	0.31664	0.3166
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	106733	5.09782	5.098
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	101894	4.51999	4.520
*	27 Naphthalene-d8	136	12.161	12.162	(1.000)	350423	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	397291	5.15594	5.156
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	127702	4.19747	4.197
	30 Hexachlorobutadiene	225	12.555	12.556	(1.032)	40912	4.88362	4.884
	31 4-Chloro-3-methylphenol	107	13.260	13.260	(1.090)	100560	4.51499	4.515
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	314685	5.16348	5.163
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	44657	5.17794	5.178

		QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	Compounds							
34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	66043	4.94833	4.948
35	2,4,5-Trichlorophenol	196	14.289	14.289	(0.905)	66737	4.60726	4.607
$ 36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	321372	5.49371	5.494
37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	281103	5.37875	5.379
38	2-Nitroaniline	65	14.838	14.846	(0.940)	38621	5.39121	5.391
39	Dimethylphthalate	163	15.256	15.257	(0.966)	255305	5.36151	5.362
40	Acenaphthylene	152	15.481	15.473	(0.980)	396090	5.27531	5.275
41	2,6-Dinitrotoluene	165	15.403	15.404	(0.975)	58941	5.44953	5.450
* 42	Acenaphthene-d10	164	15.790	15.791	(1.000)	157902	4.00000	
43	3-Nitroaniline	138	15.690	15.690	(0.994)	46796	6.03670	6.037
44	Acenaphthene	153	15.860	15.860	(1.004)	224711	5.39302	5.393
45	2,4-Dinitrophenol	184	15.914	15.914	(1.008)	8291	1.16138	1.161
46	Dibenzofuran	168	16.185	16.185	(1.025)	333559	5.26832	5.268
47	4-Nitrophenol	109	16.007	16.007	(1.014)	22311	3.88150	3.882
48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	77451	5.33670	5.337
50	Diethylphthalate	149	16.718	16.718	(1.059)	281464	5.60445	5.604
49	Fluorene	166	16.904	16.896	(1.070)	476590	5.12741	5.127
51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	145983	4.88992	4.890
52	4-Nitroaniline	138	16.973	16.973	(1.075)	112376	5.36280	5.363
53	4,6-Dinitro-2-methylphenol	198	17.073	17.066	(0.906)	46974	3.80822	3.808
54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	252742	4.69177	4.692
$ 55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	19945	6.20177	6.202
56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.950)	68834	4.85369	4.854
57	Hexachlorobenzene	284	18.215	18.215	(0.967)	49735	4.10084	4.101
58	Pentachlorophenol	266	18.594	18.579	(0.987)	94	0.04497	0.04497
* 59	Phenanthrene-d10	188	18.842	18.842	(1.000)	291036	4.00000	
60	Phenanthrene	178	18.888	18.888	(1.002)	354841	5.02544	5.025
61	Anthracene	178	18.989	18.981	(1.008)	313064	4.54195	4.542
62	Carbazole	167	19.298	19.299	(1.024)	358216	4.82289	4.823
63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	530086	5.12976	5.130
64	Fluoranthene	202	21.248	21.240	(0.891)	410175	5.42517	5.425
65	Pyrene	202	21.673	21.666	(0.909)	413310	5.43802	5.438
$ 66	Terphenyl-d14	244	21.929	21.929	(0.919)	212848	4.87635	4.876
67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	215268	5.29295	5.293
68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	278522	5.36735	5.367
* 69	Chrysene-d12	240	23.849	23.850	(1.000)	180135	4.00000	
70	3,3'-Dichlorobenzidine	252	23.756	23.757	(0.996)	197513	10.5462	10.55
71	Chrysene	228	23.896	23.896	(1.002)	207879	4.66213	4.662
72	bis(2-Ethylhexyl)phthalate	149	23.849	23.842	(0.958)	355145	5.28072	5.281
* 134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	437929	4.00000	
73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	511569	5.05159	5.052
74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	225309	5.48784	5.488
75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	207321	5.18288	5.183
76	Benzo(a)pyrene	252	26.667	26.660	(0.995)	210048	5.36509	5.365
* 77	Perylene-d12	264	26.799	26.791	(1.000)	113976	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	161089	5.23456	5.235
79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	123610	5.11179	5.112
80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	128628	5.06607	5.066
90	N-Nitrosodimethylamine	74	5.274	5.266	(0.546)	72009	4.53535	4.535
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.457	21.457	(0.900)	383147	10.7938	10.79
103	Pyridine	79	5.297	5.282	(0.548)	84629	1.79057	1.791
105	1-methylnaphthalene	142	13.825	13.825	(1.137)	303889	5.10312	5.103
111	Azobenzene (1,2-DP-Hydrazine)	77	17.204	17.205	(1.090)	303783	4.87819	4.878

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	415058	10.6768	10.68
120 2,3,4,6-Tetrachlorophenol	232	16.509	16.517	(1.046)	32903	4.05990	4.060

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	80982	40491	161964	88595	9.40
27 Naphthalene-d8	314194	157097	628388	350423	11.53
42 Acenaphthene-d10	149187	74594	298374	157902	5.84
59 Phenanthrene-d10	263157	131579	526314	291036	10.59
69 Chrysene-d12	165015	82508	330030	180135	9.16
134 Di-n-octylphthala	399023	199512	798046	437929	9.75
77 Perylene-d12	106456	53228	212912	113976	7.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.66	-0.08
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010413.D

Lab ID: SLA0012-SCV1
nt10.i, ABN.m, 04-JAN-2023 16:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010402.D

Page 1

Date : 04-JAN-2023 09:07

Client ID:

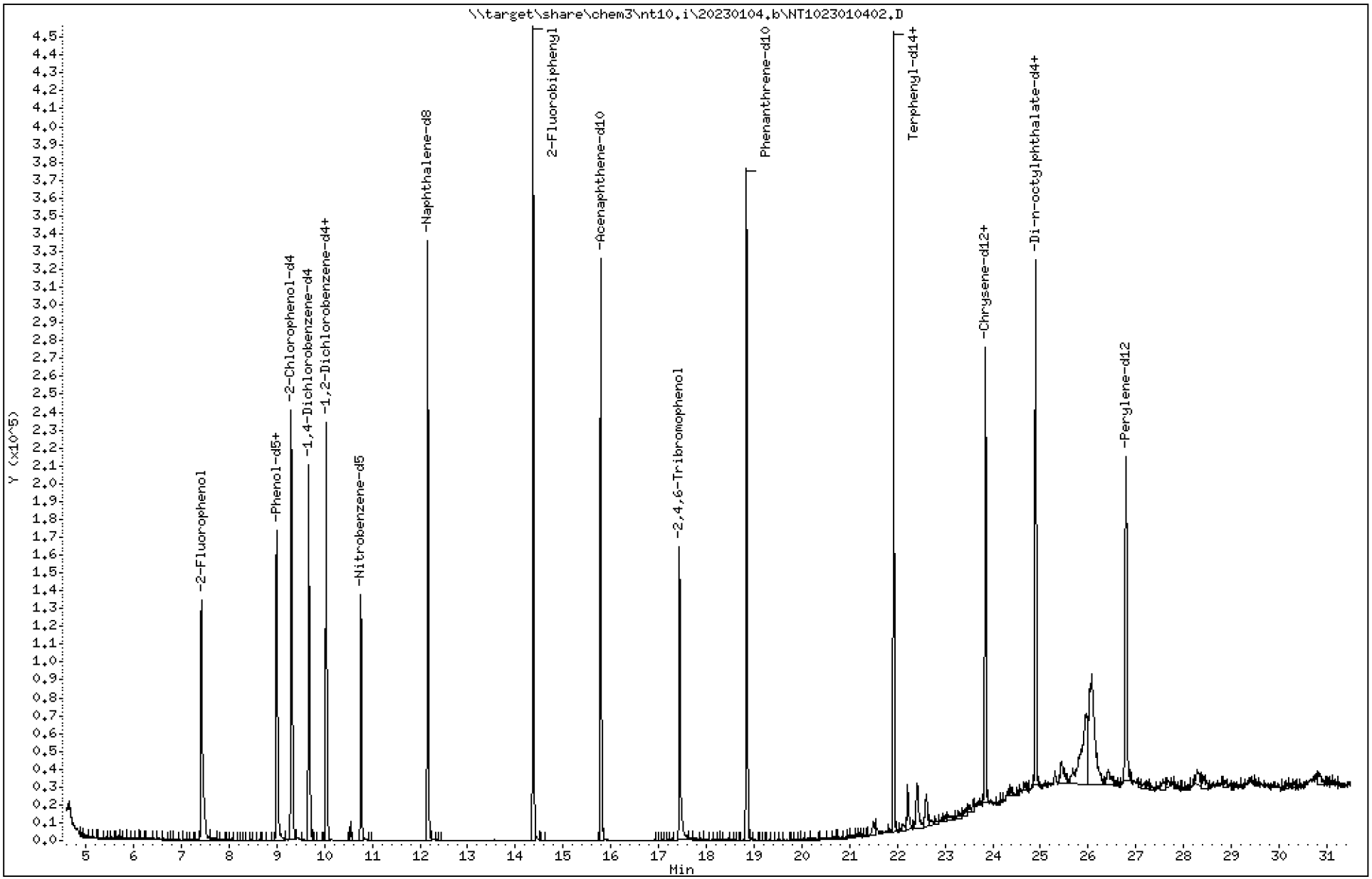
Instrument: nt10.i

Sample Info: SLA0012-ICB1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1766 of 5449

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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

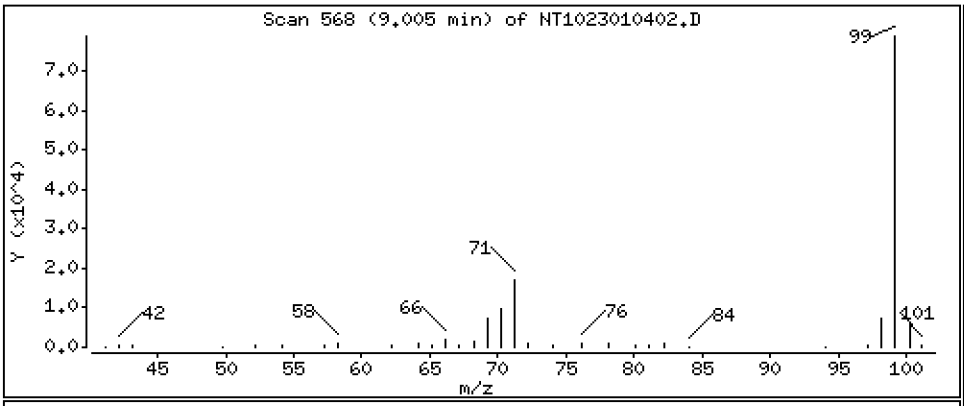
Operator: VTS

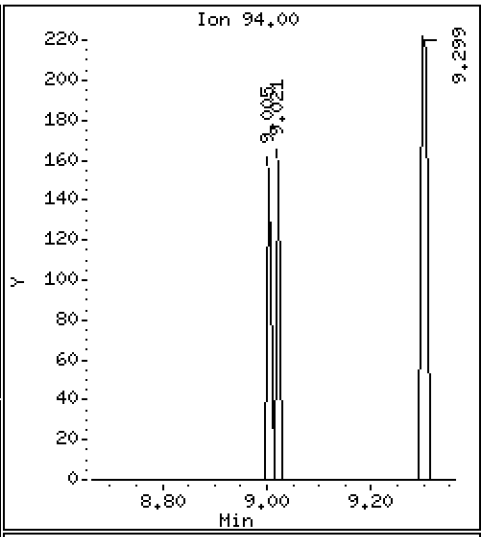
Column phase: ZB-5msi

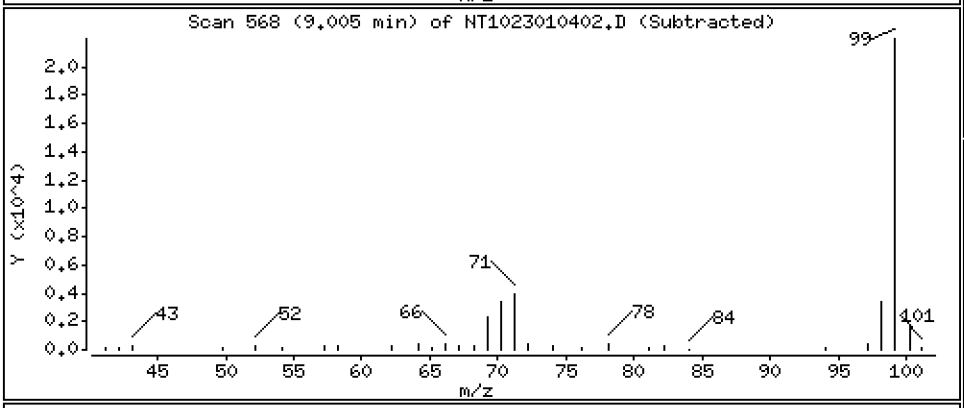
Column diameter: 0.25

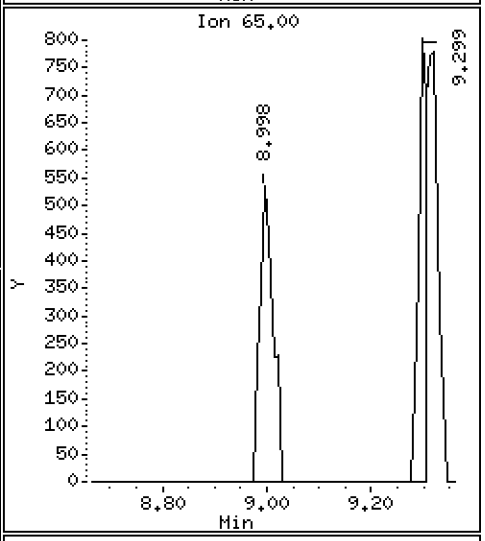
3 Phenol

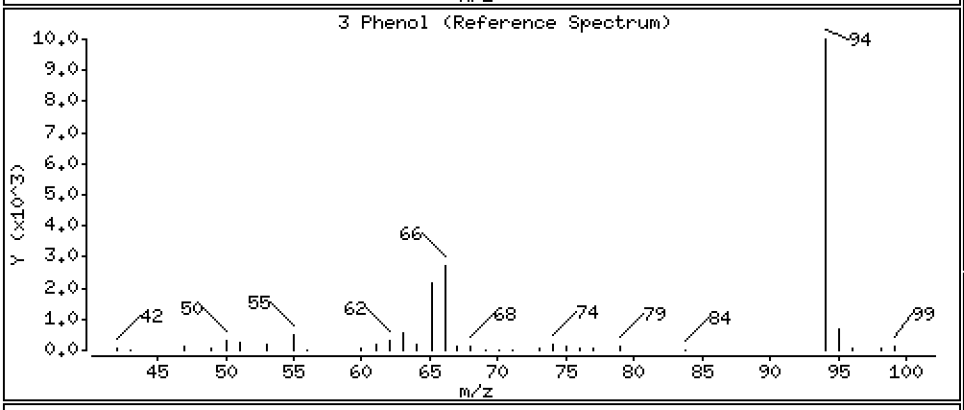
Concentration: 0.002211 ug/mL

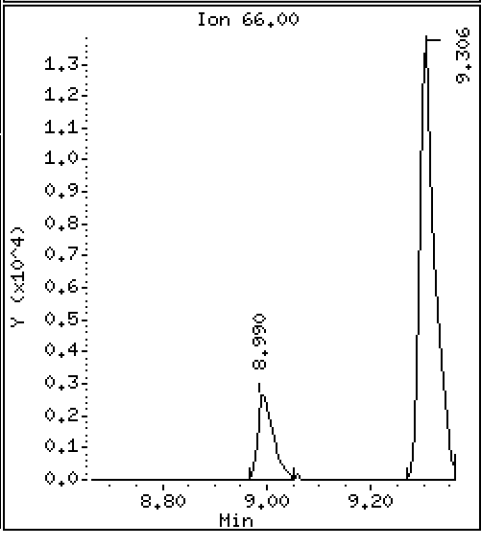


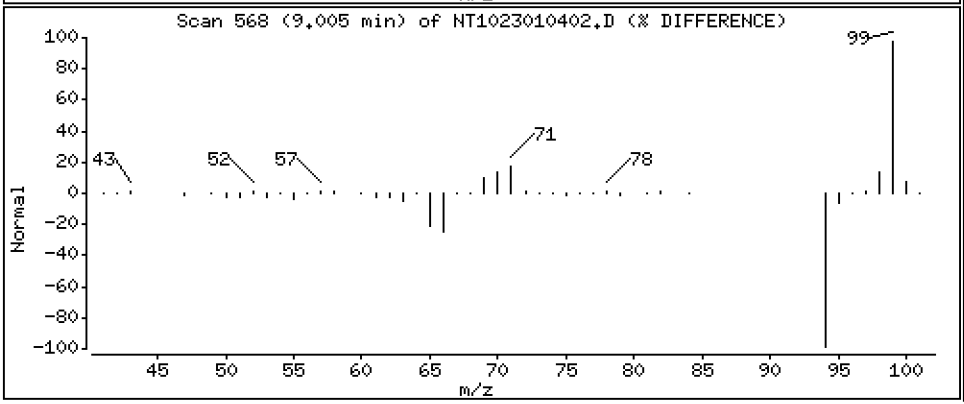












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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

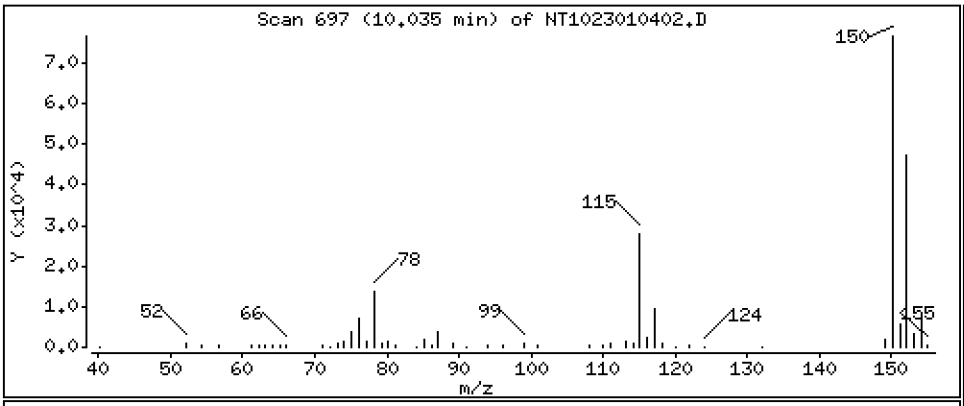
Operator: VTS

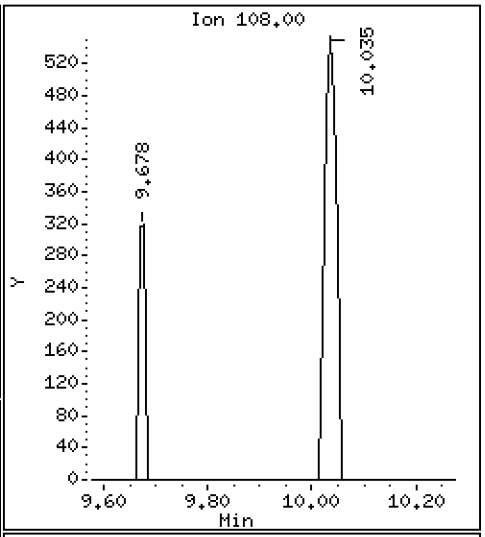
Column phase: ZB-5msi

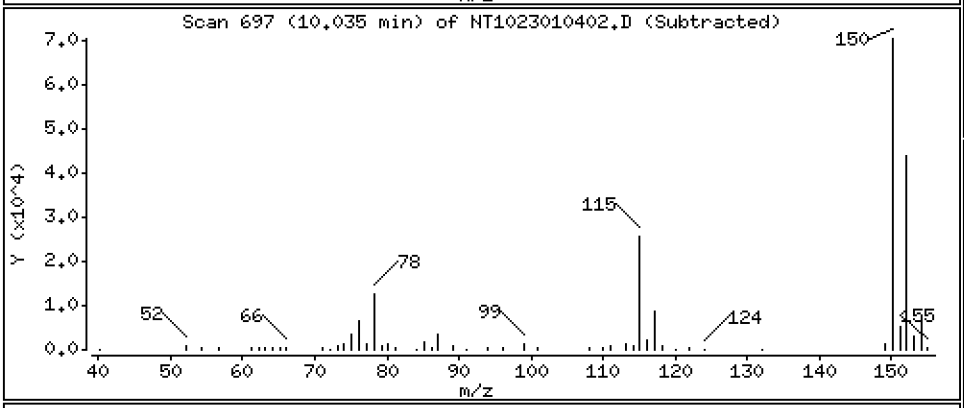
Column diameter: 0.25

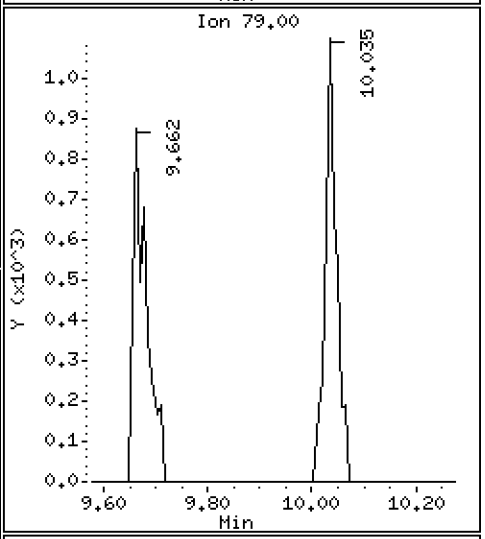
11 Benzyl alcohol

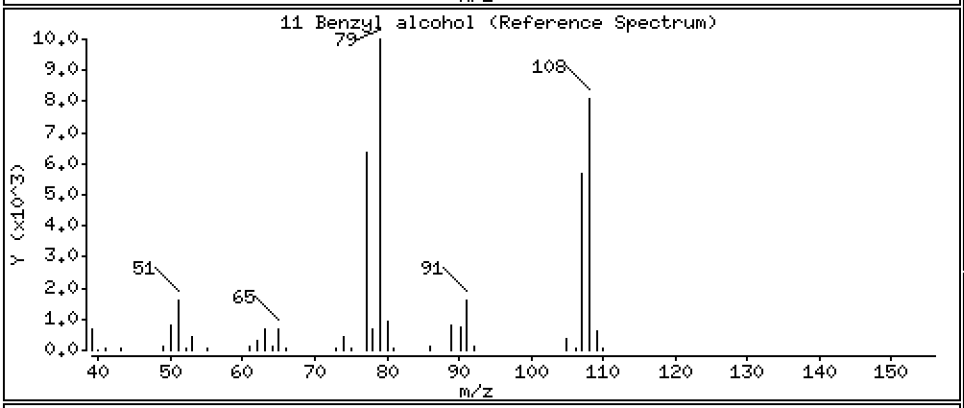
Concentration: 0.08805 ug/mL

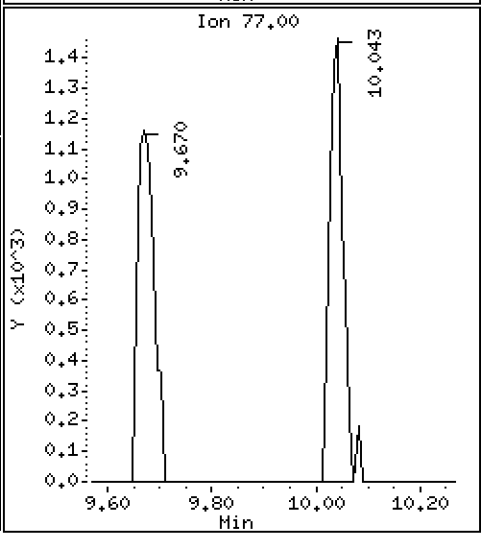


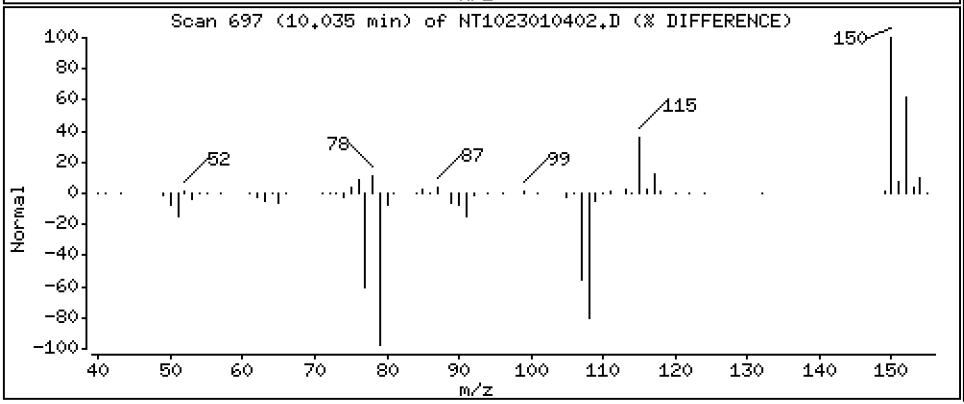












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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

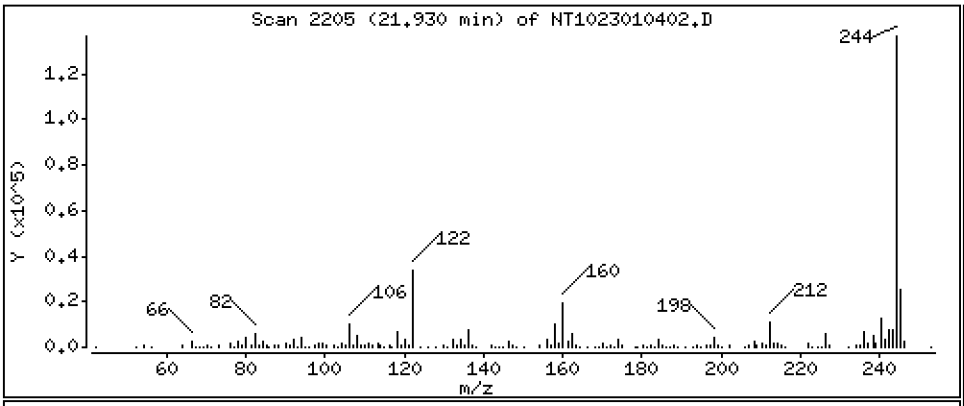
Operator: VTS

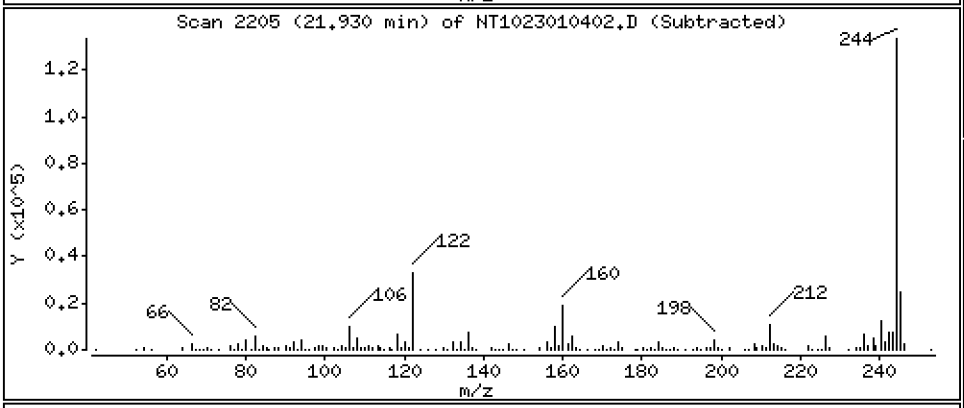
Column phase: ZB-5msi

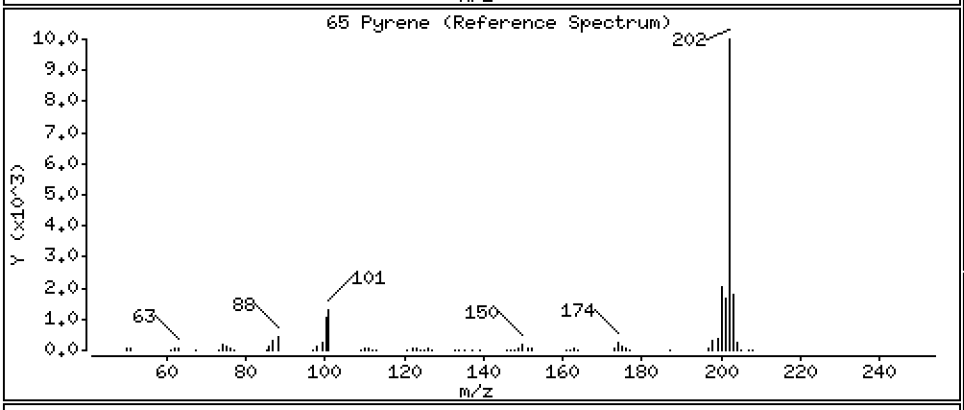
Column diameter: 0.25

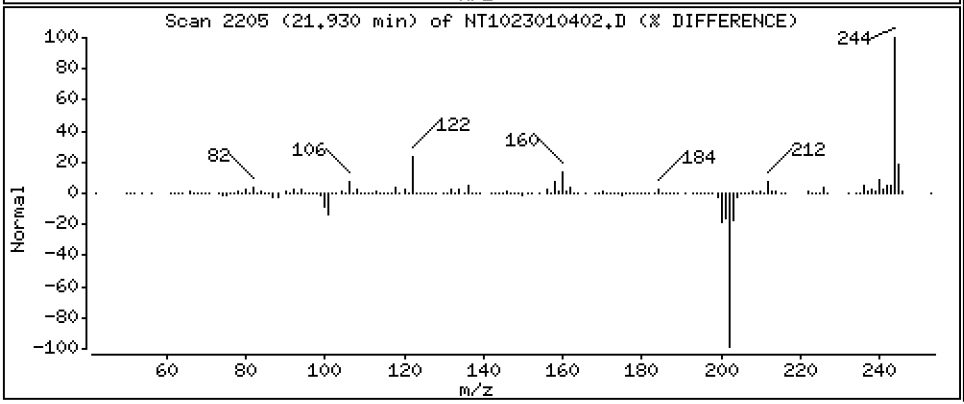
65 Pyrene

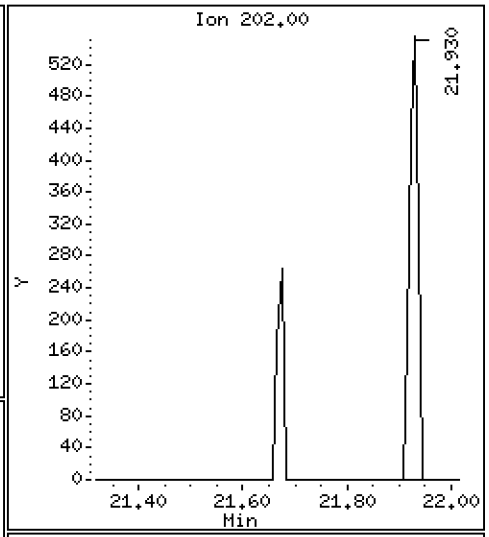
Concentration: 0.005881 ug/mL

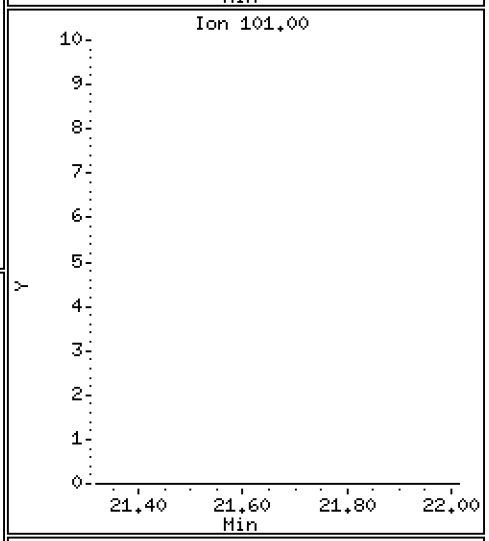


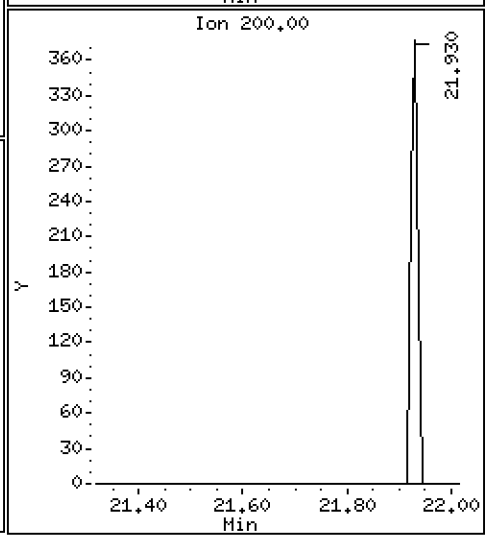












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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

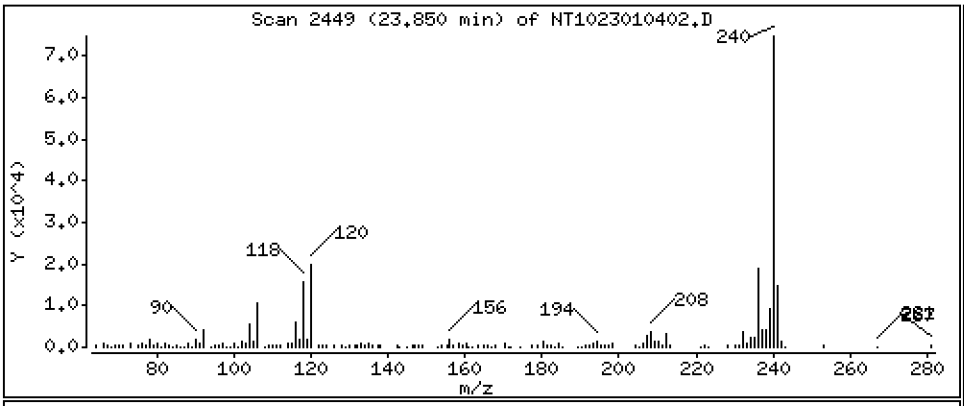
Operator: VTS

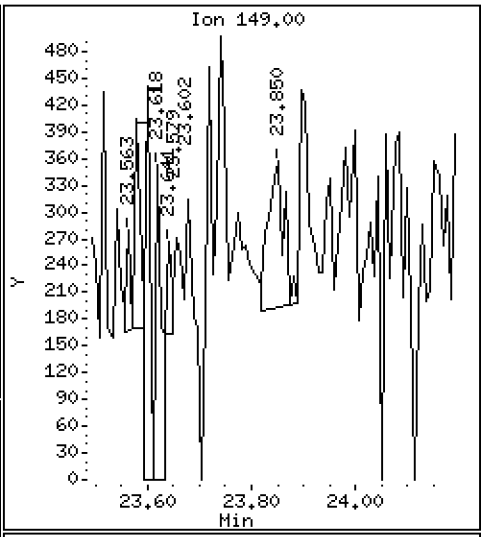
Column phase: ZB-5msi

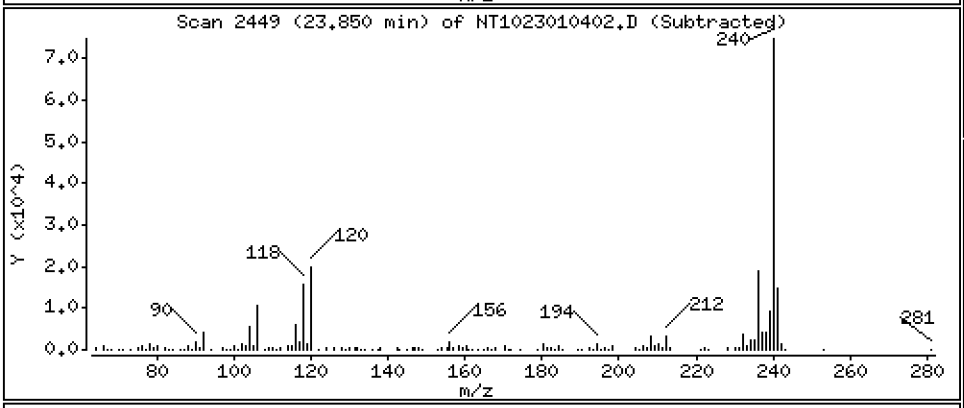
Column diameter: 0.25

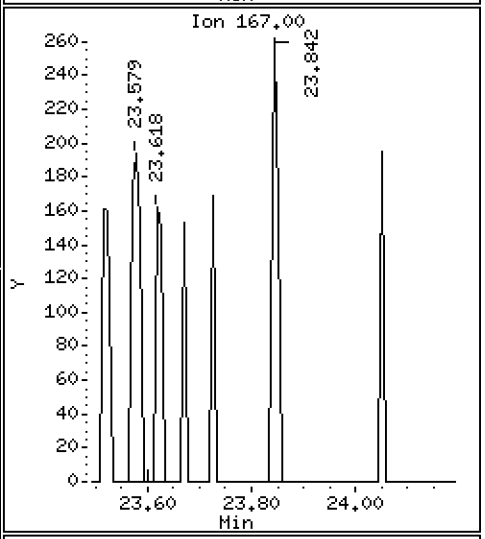
72 bis(2-Ethylhexyl)phthalate

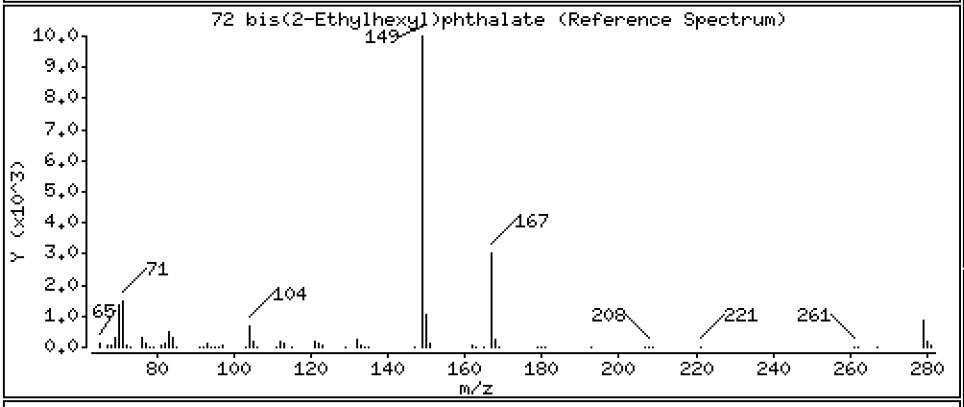
Concentration: 0.01608 ug/mL

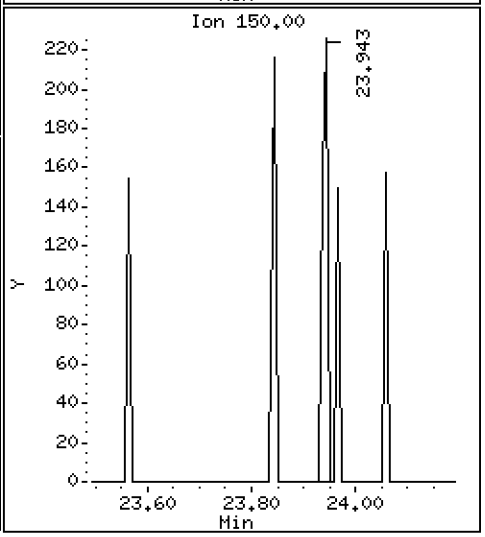


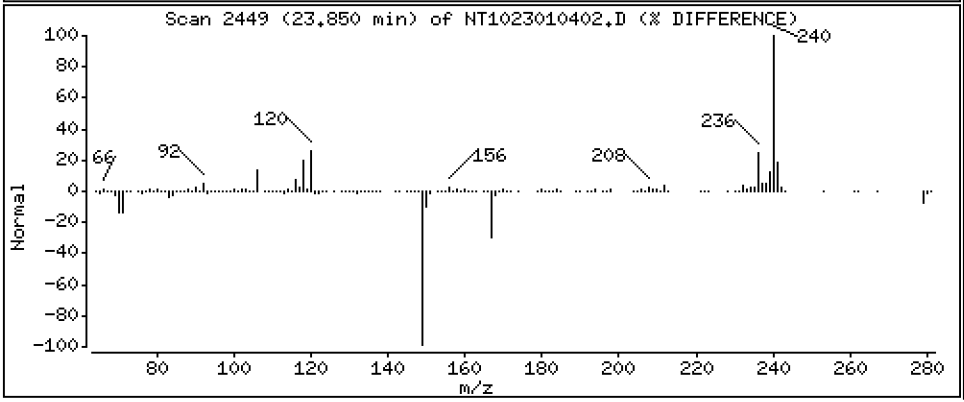












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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

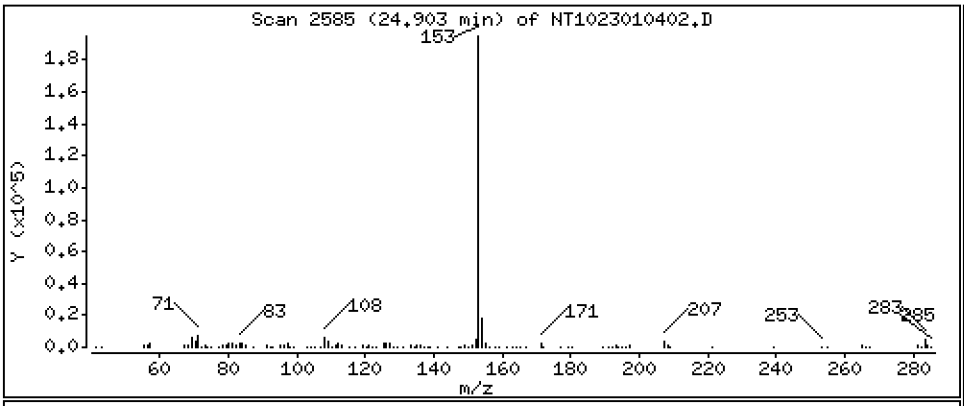
Operator: VTS

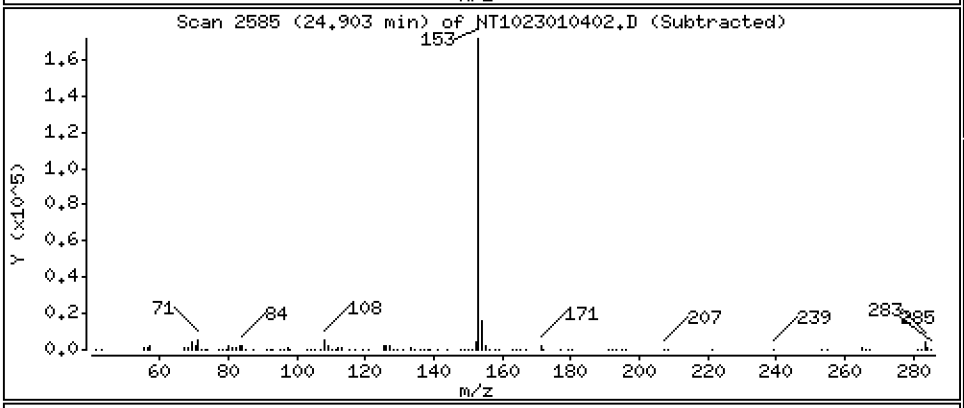
Column phase: ZB-5msi

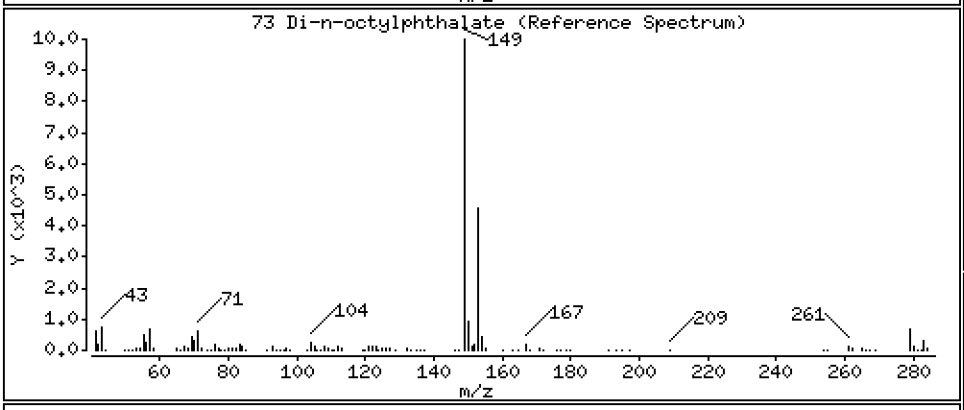
Column diameter: 0.25

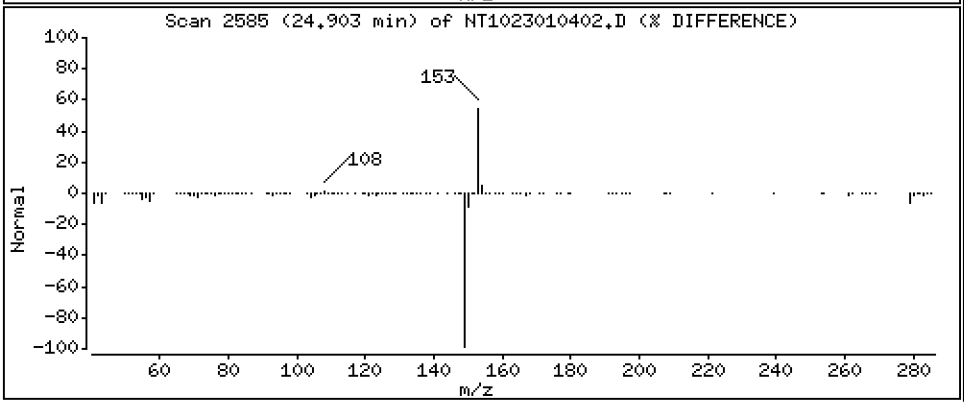
73 Di-n-octylphthalate

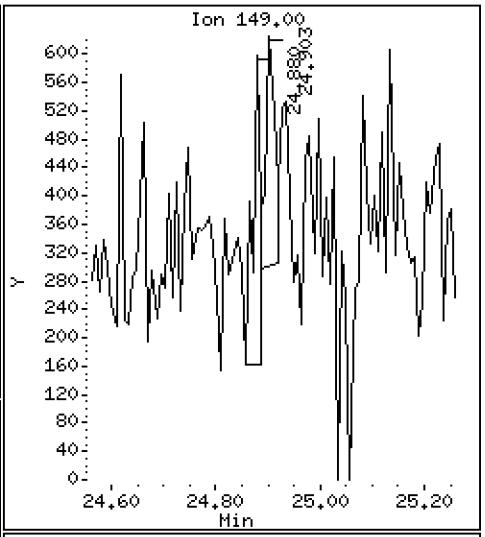
Concentration: 0.004502 ug/mL

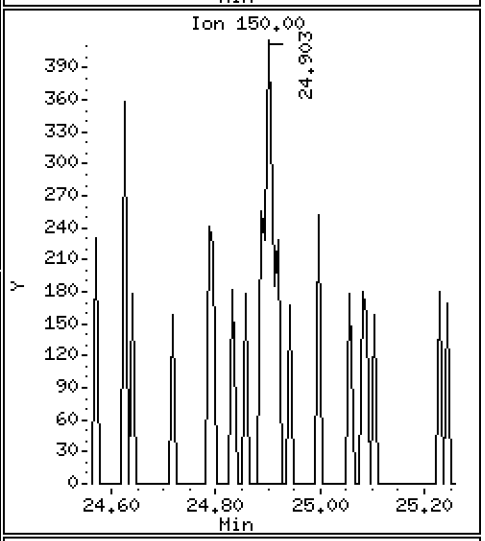


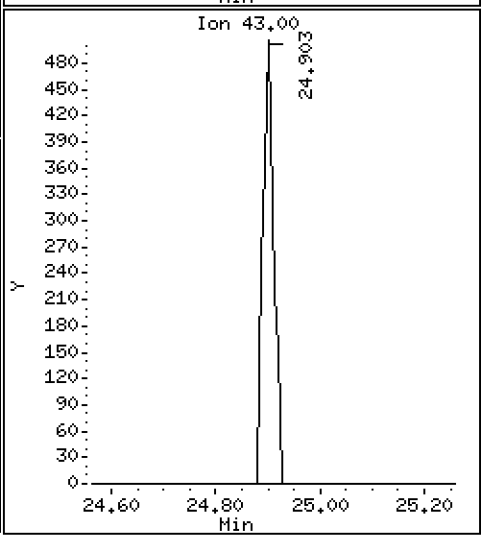












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Date : 04-JAN-2023 09:07

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-ICB1

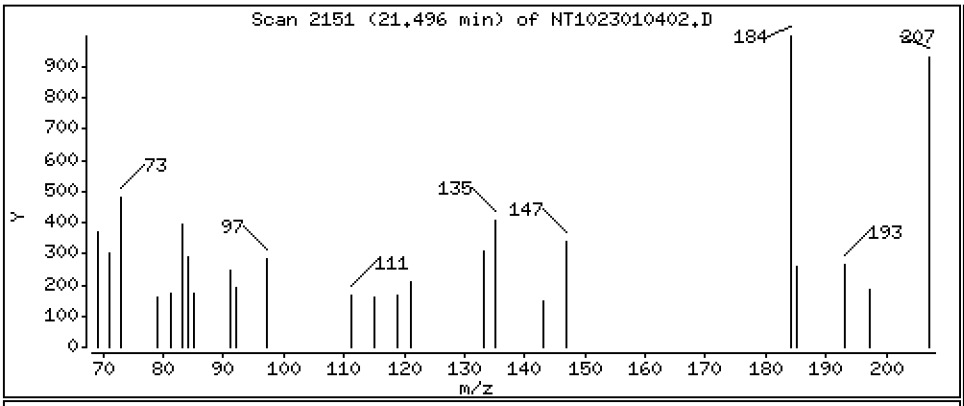
Operator: VTS

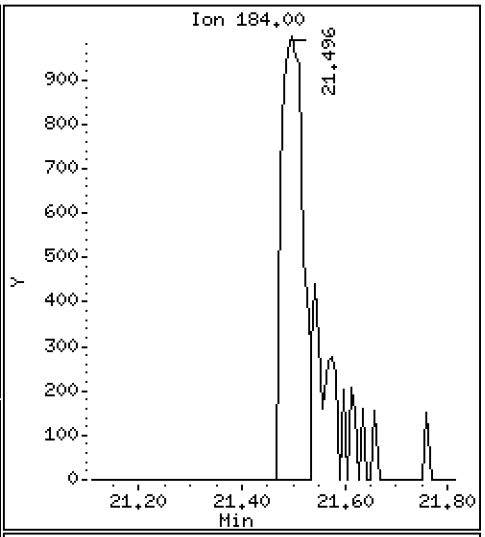
Column phase: ZB-5msi

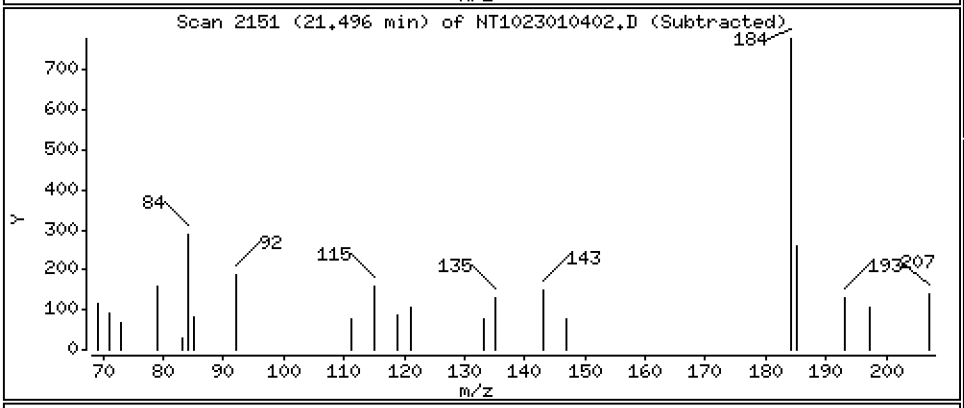
Column diameter: 0.25

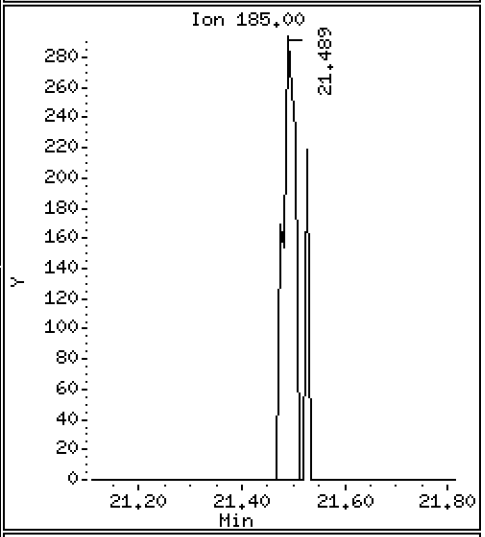
93 Benzidine

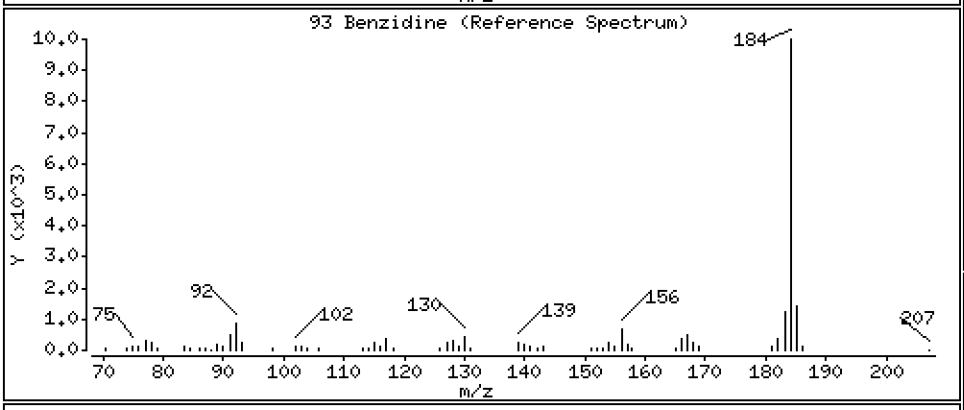
Concentration: 0.05911 ug/mL

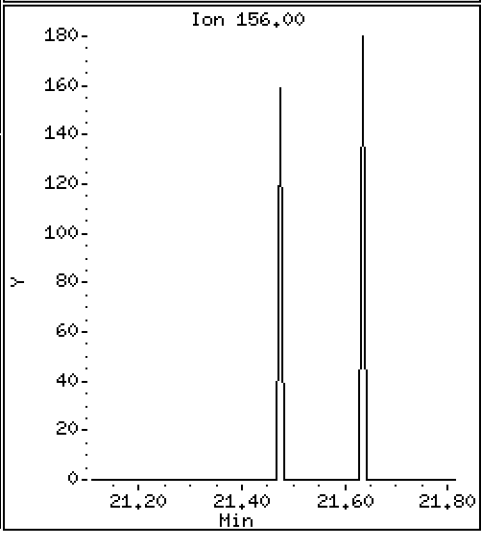


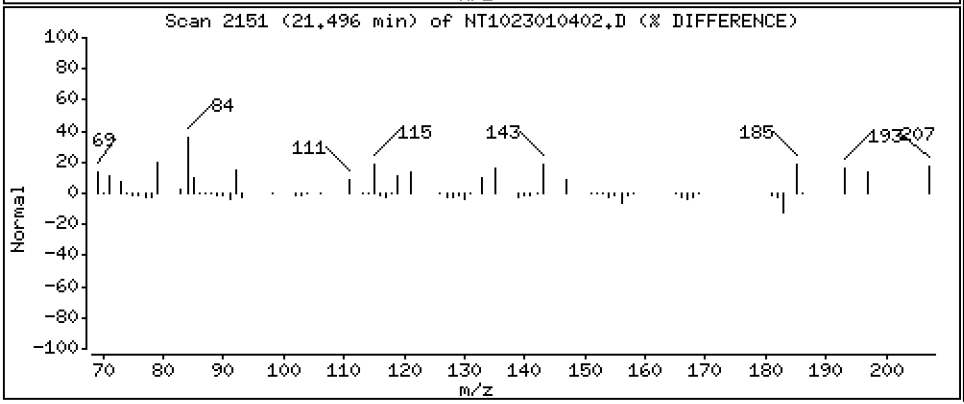












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010402.D
Lab Smp Id: SLA0012-ICB1
Inj Date : 04-JAN-2023 09:07
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-ICB1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 29-DEC-2022 18:48 Cal File: NT10221229A08.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	184114	6.38984	6.390
$	2 Phenol-d5	99	8.997	8.989	(0.930)	211388	5.98191	5.982
	3 Phenol	94	9.005	9.012	(0.931)	72	0.00221	0.002211
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	211974	6.91537	6.915
	4 Bis(2-Chloroethyl)ether	93	Compound Not Detected.					
	6 2-Chlorophenol	128	Compound Not Detected.					
	7 1,3-Dichlorobenzene	146	Compound Not Detected.					
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	83946	4.00000	
	9 1,4-Dichlorobenzene	146	Compound Not Detected.					
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.038)	89646	4.66850	4.669
	12 1,2-Dichlorobenzene	146	Compound Not Detected.					
	11 Benzyl alcohol	108	10.034	9.925	(1.038)	928	0.08805	0.08805
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	Compound Not Detected.					
	17 Hexachloroethane	117	Compound Not Detected.					
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	Compound Not Detected.					
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	108185	5.02893	5.029
	19 Nitrobenzene	77	Compound Not Detected.					
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	Compound Not Detected.					
	22 2,4-Dimethylphenol	107	Compound Not Detected.					
	23 Bis(2-Chloroethoxy)methane	93	Compound Not Detected.					
	24 Benzoic acid	105	Compound Not Detected.					
	25 2,4-Dichlorophenol	162	Compound Not Detected.					
	26 1,2,4-Trichlorobenzene	180	Compound Not Detected.					
*	27 Naphthalene-d8	136	12.162	12.162	(1.000)	331747	4.00000	
	28 Naphthalene	128	Compound Not Detected.					
	29 4-Chloroaniline	127	Compound Not Detected.					
	30 Hexachlorobutadiene	225	Compound Not Detected.					
	31 4-Chloro-3-methylphenol	107	Compound Not Detected.					
	32 2-Methylnaphthalene	142	Compound Not Detected.					
	33 Hexachlorocyclopentadiene	237	Compound Not Detected.					

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	Compound Not Detected.					
	35	2,4,5-Trichlorophenol	196	Compound Not Detected.					
$	36	2-Fluorobiphenyl	172	14.375	14.374	(0.910)	263400	4.61480	4.615
	37	2-Chloronaphthalene	162	Compound Not Detected.					
	38	2-Nitroaniline	65	Compound Not Detected.					
	39	Dimethylphthalate	163	Compound Not Detected.					
	40	Acenaphthylene	152	Compound Not Detected.					
	41	2,6-Dinitrotoluene	165	Compound Not Detected.					
*	42	Acenaphthene-d10	164	15.791	15.791	(1.000)	144996	4.00000	
	43	3-Nitroaniline	138	Compound Not Detected.					
	44	Acenaphthene	153	Compound Not Detected.					
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	Compound Not Detected.					
	47	4-Nitrophenol	109	Compound Not Detected.					
	48	2,4-Dinitrotoluene	165	Compound Not Detected.					
	50	Diethylphthalate	149	Compound Not Detected.					
	49	Fluorene	166	Compound Not Detected.					
	51	4-Chlorophenyl-phenylether	204	Compound Not Detected.					
	52	4-Nitroaniline	138	Compound Not Detected.					
	53	4,6-Dinitro-2-methylphenol	198	Compound Not Detected.					
	54	N-Nitrosodiphenylamine	169	Compound Not Detected.					
$	55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	20656	7.08507	7.085
	56	4-Bromophenyl-phenylether	248	Compound Not Detected.					
	57	Hexachlorobenzene	284	Compound Not Detected.					
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.842	18.842	(1.000)	257969	4.00000	
	60	Phenanthrene	178	Compound Not Detected.					
	61	Anthracene	178	Compound Not Detected.					
	62	Carbazole	167	Compound Not Detected.					
	63	Di-n-butylphthalate	149	Compound Not Detected.					
	64	Fluoranthene	202	Compound Not Detected.					
	65	Pyrene	202	21.929	21.666	(0.919)	684	0.00588	0.005881
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	193749	3.06565	3.066
	67	Butylbenzylphthalate	149	Compound Not Detected.					
	68	Benzo(a)anthracene	228	Compound Not Detected.					
*	69	Chrysene-d12	240	23.850	23.850	(1.000)	144005	4.00000	
	70	3,3'-Dichlorobenzidine	252	Compound Not Detected.					
	71	Chrysene	228	Compound Not Detected.					
	72	bis(2-Ethylhexyl)phthalate	149	23.850	23.842	(0.958)	343	0.01608	0.01608
*	134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	338570	4.00000	
	73	Di-n-octylphthalate	149	24.902	24.910	(1.000)	387	0.00450	0.004502
	74	Benzo(b)fluoranthene	252	Compound Not Detected.					
	75	Benzo(k)fluoranthene	252	Compound Not Detected.					
	76	Benzo(a)pyrene	252	Compound Not Detected.					
*	77	Perylene-d12	264	26.791	26.791	(1.000)	111332	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	Compound Not Detected.					
	79	Dibenzo(a,h)anthracene	278	Compound Not Detected.					
	80	Benzo(g,h,i)perylene	276	Compound Not Detected.					
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.496	21.457	(0.901)	3084	0.05911	0.05911
	103	Pyridine	79	Compound Not Detected.					
	105	1-methylnaphthalene	142	Compound Not Detected.					
	111	Azobenzene (1,2-DP-Hydrazine)	77	Compound Not Detected.					

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	Compound Not Detected.					
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010402.D
Lab Smp Id: SLA0012-ICB1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	80982	40491	161964	83946	3.66
27 Naphthalene-d8	314194	157097	628388	331747	5.59
42 Acenaphthene-d10	149187	74594	298374	144996	-2.81
59 Phenanthrene-d10	263157	131579	526314	257969	-1.97
69 Chrysene-d12	165015	82508	330030	144005	-12.73
134 Di-n-octylphthala	399023	199512	798046	338570	-15.15
77 Perylene-d12	106456	53228	212912	111332	4.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	0.00
77 Perylene-d12	26.79	26.29	27.29	26.79	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010402.D

Lab ID: SLA0012-ICB1
nt10.i, ABN.m, 04-JAN-2023 09:07

RT	CO-ELUTION COMPOUNDS
10.035	1,2-Dichlorobenzene-d4 and Benzyl alcohol

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.038	1.026	0.0112	Benzyl alcohol
0.919	0.908	0.0111	Pyrene

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010404.D

Page 1

Date : 04-JAN-2023 10:44

Client ID:

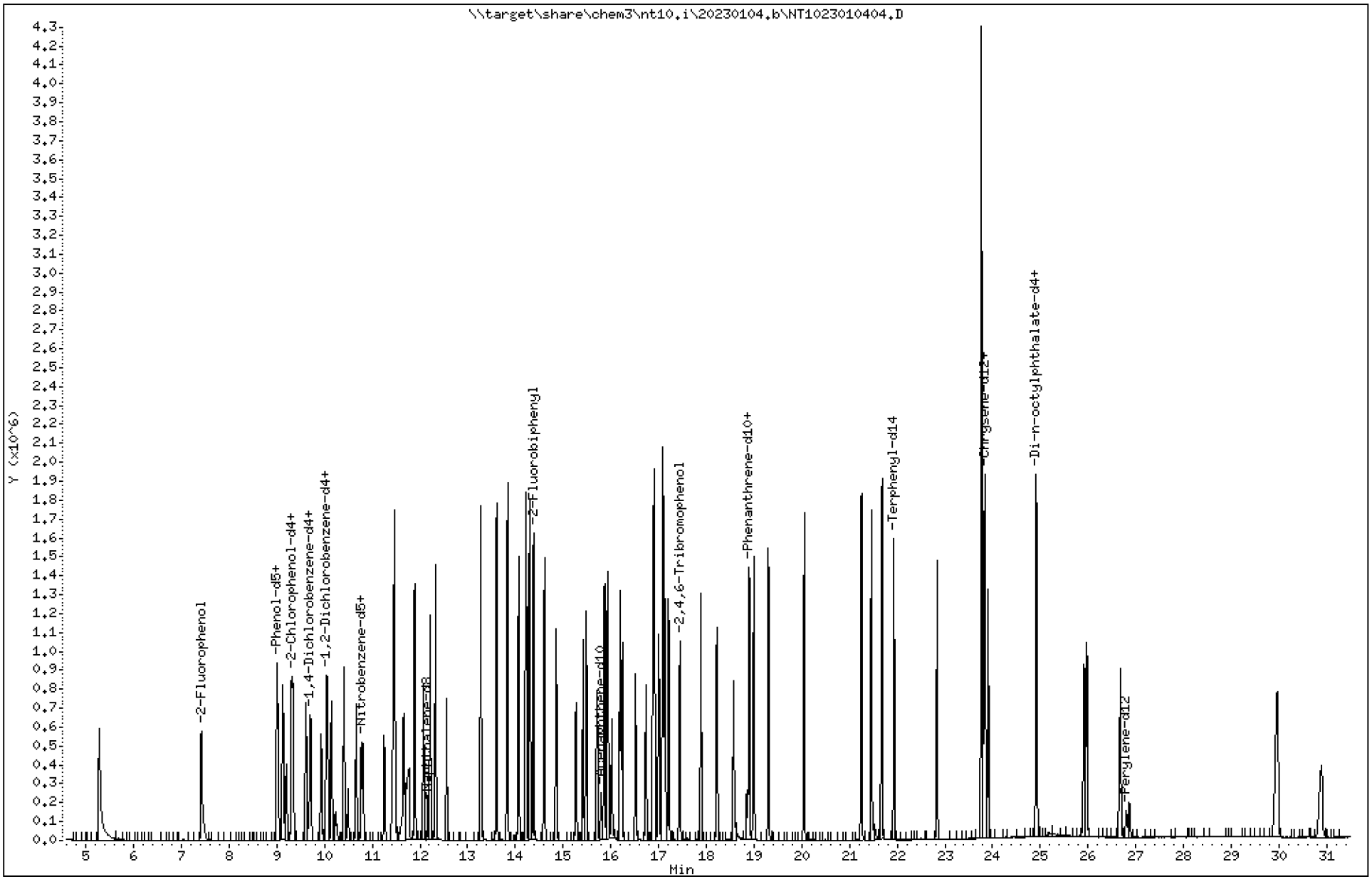
Instrument: nt10.i

Sample Info: SLA0012-CAL7

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1778 of 5449

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010404.D
Lab Smp Id: SLA0012-CAL7
Inj Date : 04-JAN-2023 10:44
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL7
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 10:44 Cal File: NT1023010404.D
Als bottle: 3 Calibration Sample, Level: 7
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	729785	30.0000	42.72
$	2 Phenol-d5	99	9.005	8.989	(0.931)	902134	30.0000	41.47
	3 Phenol	94	9.028	9.012	(0.934)	517869	20.0000	24.78
$	5 2-Chlorophenol-d4	132	9.314	9.298	(0.963)	747289	30.0000	36.08
	4 Bis(2-Chloroethyl)ether	93	9.198	9.190	(0.951)	379070	20.0000	19.72
	6 2-Chlorophenol	128	9.337	9.329	(0.966)	520641	20.0000	24.16
	7 1,3-Dichlorobenzene	146	9.608	9.607	(0.994)	457845	20.0000	20.02
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	57997	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.701	(1.003)	400527	20.0000	20.34
$	10 1,2-Dichlorobenzene-d4	152	10.042	10.034	(1.039)	285873	20.0000	22.28
	12 1,2-Dichlorobenzene	146	10.065	10.057	(1.041)	405431	20.0000	20.38
	11 Benzyl alcohol	108	9.933	9.925	(1.027)	273911	20.0000	33.57
	14 2,2'-oxybis(1-Chloropropane)	121	10.228	10.221	(1.058)	126981	20.0000	21.74
	13 2-Methylphenol	108	10.143	10.135	(1.049)	362053	20.0000	23.90
	17 Hexachloroethane	117	10.663	10.663	(1.103)	198837	20.0000	23.09
	16 N-Nitroso-di-n-propylamine	70	10.492	10.477	(1.085)	190728	20.0000	24.11
	15 4-Methylphenol	108	10.415	10.391	(1.077)	300726	20.0000	22.47
$	18 Nitrobenzene-d5	82	10.772	10.764	(0.885)	382924	20.0000	26.58
	19 Nitrobenzene	77	10.803	10.795	(0.888)	342490	20.0000	25.52
	20 Isophorone	82	11.253	11.237	(0.925)	555126	20.0000	28.39
	21 2-Nitrophenol	139	11.433	11.425	(0.940)	349543	20.0000	35.14
	22 2,4-Dimethylphenol	107	11.467	11.450	(0.942)	780605	40.0000	44.11
	23 Bis(2-Chloroethoxy)methane	93	11.663	11.654	(0.958)	339603	20.0000	22.46
	24 Benzoic acid	105	11.781	11.450	(0.968)	954108	80.0000	177.9
	25 2,4-Dichlorophenol	162	11.892	11.883	(0.977)	609800	40.0000	46.56
	26 1,2,4-Trichlorobenzene	180	12.077	12.069	(0.992)	293344	20.0000	23.48
*	27 Naphthalene-d8	136	12.170	12.162	(1.000)	220799	4.00000	
	28 Naphthalene	128	12.216	12.208	(1.004)	1103167	20.0000	22.44
	29 4-Chloroaniline	127	12.324	12.316	(1.013)	1072493	40.0000	51.43
	30 Hexachlorobutadiene	225	12.564	12.556	(1.032)	112939	20.0000	21.54
	31 4-Chloro-3-methylphenol	107	13.275	13.260	(1.091)	758317	40.0000	53.84
	32 2-Methylnaphthalene	142	13.608	13.600	(1.118)	964372	20.0000	24.59
	33 Hexachlorocyclopentadiene	237	14.073	14.065	(0.891)	298039	40.0000	51.61

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.220	14.212	(0.901)	426859	40.0000	47.39
	35	2,4,5-Trichlorophenol	196	14.305	14.289	(0.906)	474871	40.0000	48.66
$	36	2-Fluorobiphenyl	172	14.382	14.374	(0.911)	850576	20.0000	20.57
	37	2-Chloronaphthalene	162	14.607	14.599	(0.925)	773399	20.0000	20.82
	38	2-Nitroaniline	65	14.862	14.846	(0.941)	255692	40.0000	50.70
	39	Dimethylphthalate	163	15.272	15.257	(0.967)	620484	20.0000	18.55
	40	Acenaphthylene	152	15.489	15.473	(0.981)	1077823	20.0000	20.35
	41	2,6-Dinitrotoluene	165	15.419	15.404	(0.976)	312274	40.0000	41.62
*	42	Acenaphthene-d10	164	15.791	15.791	(1.000)	108828	4.00000	
	43	3-Nitroaniline	138	15.714	15.690	(0.995)	379460	40.0000	42.41
	44	Acenaphthene	153	15.868	15.860	(1.005)	665093	20.0000	22.49
	45	2,4-Dinitrophenol	184	15.938	15.914	(1.009)	530204	80.0000	134.7
	46	Dibenzofuran	168	16.193	16.185	(1.025)	930578	20.0000	20.95
	47	4-Nitrophenol	109	16.023	16.007	(1.015)	242726	40.0000	56.78
	48	2,4-Dinitrotoluene	165	16.239	16.224	(1.028)	457446	40.0000	44.91
	50	Diethylphthalate	149	16.734	16.718	(1.060)	724179	20.0000	19.43
	49	Fluorene	166	16.912	16.896	(1.071)	1213458	20.0000	20.77
	51	4-Chlorophenyl-phenylether	204	16.881	16.873	(1.069)	446634	20.0000	23.62
	52	4-Nitroaniline	138	17.012	16.973	(1.077)	678612	40.0000	50.49
	53	4,6-Dinitro-2-methylphenol	198	17.097	17.066	(0.907)	738576	80.0000	110.6
	54	N-Nitrosodiphenylamine	169	17.135	17.120	(0.909)	620637	20.0000	18.53
$	55	2,4,6-Tribromophenol	330	17.444	17.436	(1.105)	96178	30.0000	53.08
	56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.949)	214712	20.0000	24.96
	57	Hexachlorobenzene	284	18.223	18.215	(0.967)	165649	20.0000	21.49
	58	Pentachlorophenol	266	18.579	18.579	(0.986)	103528	40.0000	50.40
*	59	Phenanthrene-d10	188	18.850	18.842	(1.000)	177821	4.00000	
	60	Phenanthrene	178	18.896	18.888	(1.002)	954523	20.0000	21.72
	61	Anthracene	178	18.997	18.981	(1.008)	1028962	20.0000	23.99
	62	Carbazole	167	19.299	19.299	(1.024)	1146751	20.0000	24.84
	63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	1715005	20.0000	28.25
	64	Fluoranthene	202	21.256	21.240	(0.891)	1223600	20.0000	22.58
	65	Pyrene	202	21.682	21.666	(0.909)	1251949	20.0000	21.78
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	620039	20.0000	20.31
	67	Butylbenzylphthalate	149	22.835	22.827	(0.957)	620704	20.0000	20.79
	68	Benzo(a)anthracene	228	23.826	23.819	(0.999)	812650	20.0000	18.06
*	69	Chrysene-d12	240	23.857	23.850	(1.000)	98143	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.772	23.757	(0.996)	982007	60.0000	72.27
	71	Chrysene	228	23.904	23.896	(1.002)	625067	20.0000	19.18
	72	bis(2-Ethylhexyl)phthalate	149	23.850	23.842	(0.957)	1051515	20.0000	22.34
*	134	Di-n-octylphthalate-d4	153	24.910	24.902	(1.000)	378301	4.00000	
	73	Di-n-octylphthalate	149	24.918	24.910	(1.000)	1844535	20.0000	20.67
	74	Benzo(b)fluoranthene	252	25.917	25.901	(0.967)	751514	20.0000	23.37
	75	Benzo(k)fluoranthene	252	25.971	25.955	(0.969)	651999	20.0000	20.95
	76	Benzo(a)pyrene	252	26.675	26.660	(0.995)	671407	20.0000	22.79
*	77	Perylene-d12	264	26.799	26.791	(1.000)	88030	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.954	29.907	(1.118)	560976	20.0000	23.61
	79	Dibenzo(a,h)anthracene	278	29.970	29.923	(1.118)	430904	20.0000	23.35
	80	Benzo(g,h,i)perylene	276	30.894	30.840	(1.153)	470564	20.0000	23.93
	90	N-Nitrosodimethylamine	74	5.274	5.266	(0.545)	601510	40.0000	63.30
	91	Aniline	93	9.128	9.113	(0.944)	1007103	40.0000	46.79
	93	Benzidine	184	21.465	21.457	(0.900)	1165036	40.0000	44.99
	103	Pyridine	79	5.274	5.282	(0.545)	947694	20.0000	29.68
	105	1-methylnaphthalene	142	13.833	13.825	(1.137)	931910	20.0000	24.43
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.212	17.205	(1.090)	877935	20.0000	20.18

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.971	25.901	(0.969)	1352930	40.0000	44.46
120 2,3,4,6-Tetrachlorophenol	232	16.525	16.517	(1.047)	144032	20.0000	29.40

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010404.D
Lab Smp Id: SLA0012-CAL7
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	57997	-24.37
27 Naphthalene-d8	296095	148048	592190	220799	-25.43
42 Acenaphthene-d10	136492	68246	272984	108828	-20.27
59 Phenanthrene-d10	239937	119969	479874	177821	-25.89
69 Chrysene-d12	151837	75919	303674	98143	-35.36
134 Di-n-octylphthala	363176	181588	726352	378301	4.16
77 Perylene-d12	98696	49348	197392	88030	-10.81

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.17	0.06
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.85	0.04
69 Chrysene-d12	23.85	23.35	24.35	23.86	0.03
134 Di-n-octylphthala	24.90	24.40	25.40	24.91	0.03
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010404.D

Lab ID: SLA0012-CAL7
nt10.i, ABN.m, 04-JAN-2023 10:44

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.968	0.942	0.0266	Benzoic acid

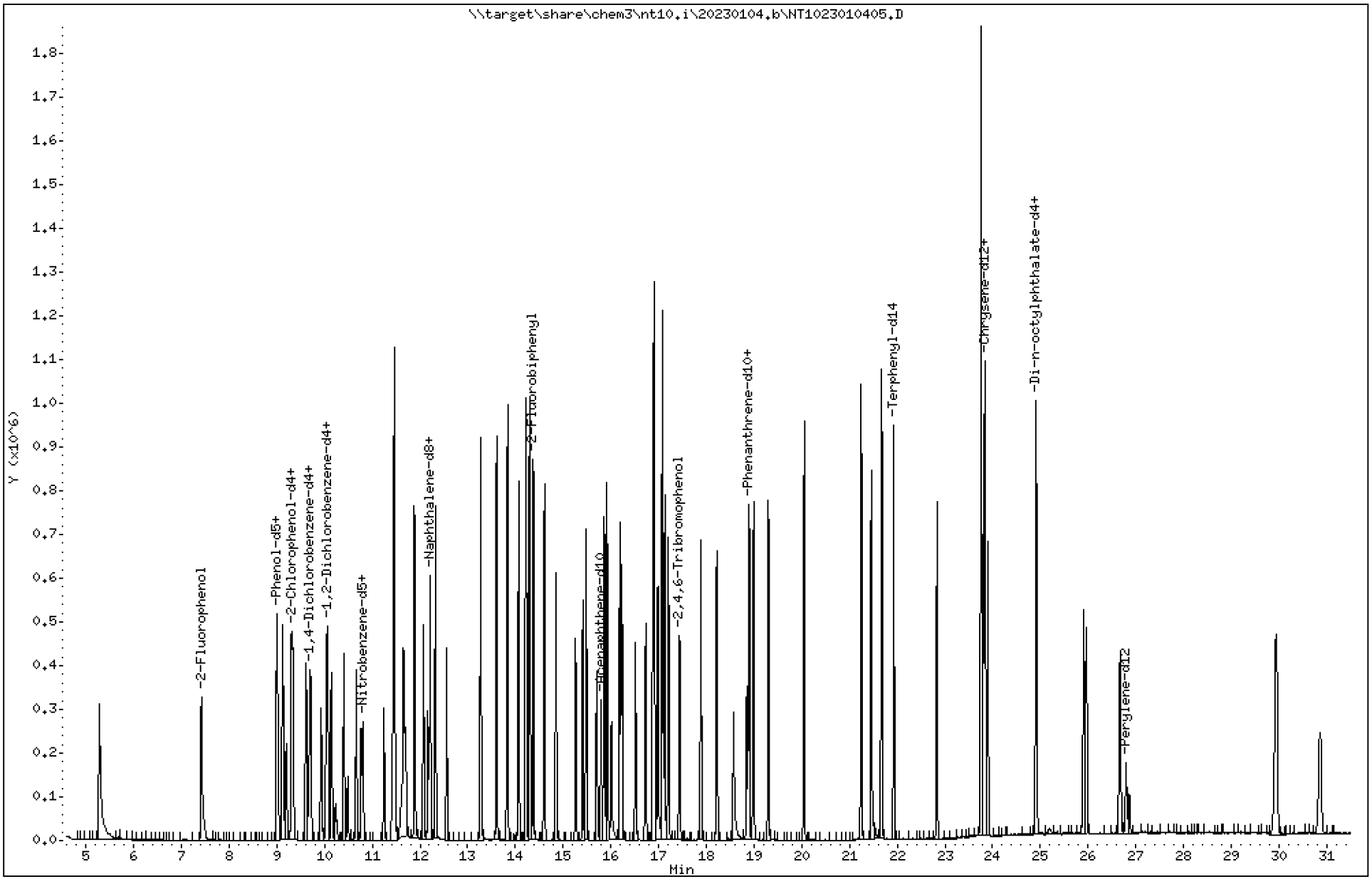
RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010405.D
Date : 04-JAN-2023 11:51
Client ID:
Sample Info: SLA0012-CAL6

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010405.D
Lab Smp Id: SLA0012-CAL6
Inj Date : 04-JAN-2023 11:51
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL6
Misc Info :
Comment : 1ul Injection
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Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 11:51 Cal File: NT1023010405.D
Als bottle: 4 Calibration Sample, Level: 6
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	404265	15.0000	18.46
$	2 Phenol-d5	99	8.997	8.989	(0.930)	485854	15.0000	17.42
	3 Phenol	94	9.020	9.012	(0.933)	296584	10.0000	11.07
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	410538	15.0000	15.46
	4 Bis(2-Chloroethyl)ether	93	9.198	9.190	(0.951)	222499	10.0000	9.024
	6 2-Chlorophenol	128	9.337	9.329	(0.966)	290247	10.0000	10.50
	7 1,3-Dichlorobenzene	146	9.615	9.607	(0.994)	271974	10.0000	9.276
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	74375	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.701	(1.003)	226187	10.0000	8.959
$	10 1,2-Dichlorobenzene-d4	152	10.042	10.034	(1.039)	159649	10.0000	9.703
	12 1,2-Dichlorobenzene	146	10.065	10.057	(1.041)	231689	10.0000	9.080
	11 Benzyl alcohol	108	9.933	9.925	(1.027)	147566	10.0000	14.10
	14 2,2'-oxybis(1-Chloropropane)	121	10.228	10.221	(1.058)	67611	10.0000	9.026
	13 2-Methylphenol	108	10.143	10.135	(1.049)	199782	10.0000	10.28
	17 Hexachloroethane	117	10.663	10.663	(1.103)	105632	10.0000	9.567
	16 N-Nitroso-di-n-propylamine	70	10.485	10.477	(1.084)	102849	10.0000	10.14
	15 4-Methylphenol	108	10.415	10.391	(1.077)	148312	10.0000	8.641
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	202035	10.0000	11.01
	19 Nitrobenzene	77	10.803	10.795	(0.888)	183478	10.0000	10.73
	20 Isophorone	82	11.245	11.237	(0.924)	287502	10.0000	11.54
	21 2-Nitrophenol	139	11.433	11.425	(0.940)	177845	10.0000	14.04
	22 2,4-Dimethylphenol	107	11.459	11.450	(0.942)	446870	20.0000	19.82
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	185579	10.0000	9.636
	24 Benzoic acid	105	11.697	11.450	(0.961)	452688	40.0000	66.26
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.976)	352129	20.0000	21.11
	26 1,2,4-Trichlorobenzene	180	12.077	12.069	(0.992)	177703	10.0000	11.16
*	27 Naphthalene-d8	136	12.170	12.162	(1.000)	281269	4.00000	
	28 Naphthalene	128	12.216	12.208	(1.004)	591079	10.0000	9.437
	29 4-Chloroaniline	127	12.324	12.316	(1.013)	539437	20.0000	20.31
	30 Hexachlorobutadiene	225	12.563	12.556	(1.032)	64498	10.0000	9.659
	31 4-Chloro-3-methylphenol	107	13.268	13.260	(1.090)	400016	20.0000	22.29
	32 2-Methylnaphthalene	142	13.608	13.600	(1.118)	508758	10.0000	10.18
	33 Hexachlorocyclopentadiene	237	14.073	14.065	(0.891)	162009	20.0000	22.49

		QUANT SIG					AMOUNTS CAL-AMT	AMOUNTS ON-COL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	14.220	14.212	(0.900)	241240	20.0000	21.46
35	2,4,5-Trichlorophenol	196	14.297	14.289	(0.905)	263068	20.0000	21.61
$ 36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	478518	10.0000	9.275
37	2-Chloronaphthalene	162	14.607	14.599	(0.925)	429402	10.0000	9.266
38	2-Nitroaniline	65	14.846	14.846	(0.940)	135047	20.0000	21.46
39	Dimethylphthalate	163	15.264	15.257	(0.966)	370538	10.0000	8.877
40	Acenaphthylene	152	15.481	15.473	(0.980)	597628	10.0000	9.044
41	2,6-Dinitrotoluene	165	15.412	15.404	(0.976)	172858	20.0000	18.46
* 42	Acenaphthene-d10	164	15.799	15.791	(1.000)	135789	4.00000	
43	3-Nitroaniline	138	15.713	15.690	(0.995)	145300	20.0000	13.01
44	Acenaphthene	153	15.860	15.860	(1.004)	353396	10.0000	9.576
45	2,4-Dinitrophenol	184	15.922	15.914	(1.008)	287881	40.0000	58.62
46	Dibenzofuran	168	16.193	16.185	(1.025)	523270	10.0000	9.441
47	4-Nitrophenol	109	16.015	16.007	(1.014)	112361	20.0000	21.07
48	2,4-Dinitrotoluene	165	16.231	16.224	(1.027)	259733	20.0000	20.44
50	Diethylphthalate	149	16.726	16.718	(1.059)	420698	10.0000	9.048
49	Fluorene	166	16.904	16.896	(1.070)	716299	10.0000	9.826
51	4-Chlorophenyl-phenylether	204	16.881	16.873	(1.069)	257043	10.0000	10.89
52	4-Nitroaniline	138	16.989	16.973	(1.075)	373076	20.0000	22.25
53	4,6-Dinitro-2-methylphenol	198	17.081	17.066	(0.906)	424326	40.0000	49.17
54	N-Nitrosodiphenylamine	169	17.128	17.120	(0.909)	372143	10.0000	8.595
$ 55	2,4,6-Tribromophenol	330	17.444	17.436	(1.104)	45610	15.0000	20.17
56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.949)	117421	10.0000	10.56
57	Hexachlorobenzene	284	18.223	18.215	(0.967)	95661	10.0000	9.604
58	Pentachlorophenol	266	18.579	18.579	(0.986)	42197	20.0000	15.89
* 59	Phenanthrene-d10	188	18.850	18.842	(1.000)	229826	4.00000	
60	Phenanthrene	178	18.896	18.888	(1.002)	531860	10.0000	9.364
61	Anthracene	178	18.989	18.981	(1.007)	552109	10.0000	9.958
62	Carbazole	167	19.299	19.299	(1.024)	605418	10.0000	10.15
63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	876070	10.0000	11.17
64	Fluoranthene	202	21.248	21.240	(0.891)	653230	10.0000	8.080
65	Pyrene	202	21.674	21.666	(0.908)	652063	10.0000	7.606
$ 66	Terphenyl-d14	244	21.929	21.929	(0.919)	344781	10.0000	7.572
67	Butylbenzylphthalate	149	22.835	22.827	(0.957)	341847	10.0000	7.676
68	Benzo(a)anthracene	228	23.826	23.819	(0.999)	457045	10.0000	6.810
* 69	Chrysene-d12	240	23.857	23.850	(1.000)	146395	4.00000	
70	3,3'-Dichlorobenzidine	252	23.764	23.757	(0.996)	506287	30.0000	24.98
71	Chrysene	228	23.896	23.896	(1.002)	332476	10.0000	6.841
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.842	(0.957)	584905	10.0000	11.86
* 134	Di-n-octylphthalate-d4	153	24.910	24.902	(1.000)	396316	4.00000	
73	Di-n-octylphthalate	149	24.918	24.910	(1.000)	845082	10.0000	9.040
74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	344385	10.0000	9.233
75	Benzo(k)fluoranthene	252	25.963	25.955	(0.969)	351355	10.0000	9.733
76	Benzo(a)pyrene	252	26.675	26.660	(0.995)	343655	10.0000	10.05
* 77	Perylene-d12	264	26.799	26.791	(1.000)	102123	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.939	29.907	(1.117)	287356	10.0000	10.42
79	Dibenzo(a,h)anthracene	278	29.954	29.923	(1.118)	225588	10.0000	10.54
80	Benzo(g,h,i)perylene	276	30.871	30.840	(1.152)	237286	10.0000	10.40
90	N-Nitrosodimethylamine	74	5.274	5.266	(0.545)	315387	20.0000	25.88
91	Aniline	93	9.121	9.113	(0.943)	560667	20.0000	20.31
93	Benzidine	184	21.457	21.457	(0.899)	613406	20.0000	15.88
103	Pyridine	79	5.282	5.282	(0.546)	478720	10.0000	11.69
105	1-methylnaphthalene	142	13.833	13.825	(1.137)	504307	10.0000	10.38
111	Azobenzene (1,2-DP-Hydrazine)	77	17.212	17.205	(1.089)	487073	10.0000	8.971

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.901	(0.967)	667656	20.0000	18.91
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.517	(1.046)	75584	10.0000	12.36

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010405.D
Lab Smp Id: SLA0012-CAL6
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	74375	-3.01
27 Naphthalene-d8	296095	148048	592190	281269	-5.01
42 Acenaphthene-d10	136492	68246	272984	135789	-0.52
59 Phenanthrene-d10	239937	119969	479874	229826	-4.21
69 Chrysene-d12	151837	75919	303674	146395	-3.58
134 Di-n-octylphthala	363176	181588	726352	396316	9.13
77 Perylene-d12	98696	49348	197392	102123	3.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	-0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.17	0.06
42 Acenaphthene-d10	15.79	15.29	16.29	15.80	0.05
59 Phenanthrene-d10	18.84	18.34	19.34	18.85	0.04
69 Chrysene-d12	23.85	23.35	24.35	23.86	0.03
134 Di-n-octylphthala	24.90	24.40	25.40	24.91	0.03
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010405.D

Lab ID: SLA0012-CAL6
nt10.i, ABN.m, 04-JAN-2023 11:51

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.961	0.942	0.0196	Benzoic acid

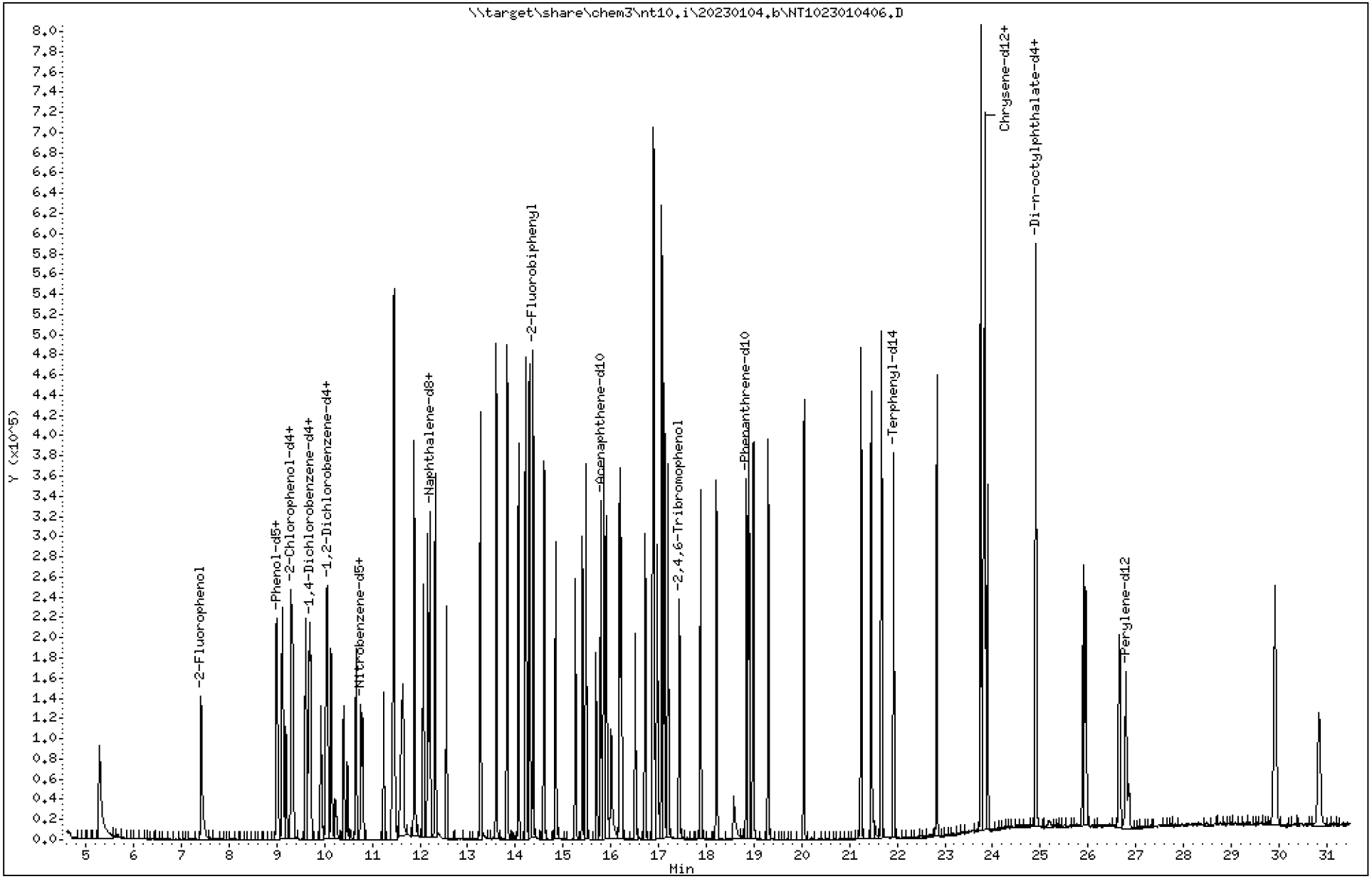
RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010406.D
Date : 04-JAN-2023 12:29
Client ID:
Sample Info: SLA0012-CAL5

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010406.D
Lab Smp Id: SLA0012-CAL5
Inj Date : 04-JAN-2023 12:29
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 12:29 Cal File: NT1023010406.D
Als bottle: 5 Calibration Sample, Level: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	182651	7.50000	8.184
$	2 Phenol-d5	99	8.989	8.989	(0.930)	220145	7.50000	7.763
	3 Phenol	94	9.012	9.012	(0.932)	148338	5.00000	5.403
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	203143	7.50000	7.481
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.950)	111632	5.00000	4.417
	6 2-Chlorophenol	128	9.329	9.329	(0.965)	141882	5.00000	5.037
	7 1,3-Dichlorobenzene	146	9.608	9.607	(0.994)	140153	5.00000	4.657
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	76684	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.701	(1.003)	122060	5.00000	4.714
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.038)	82504	5.00000	4.891
	12 1,2-Dichlorobenzene	146	10.058	10.057	(1.040)	120878	5.00000	4.630
	11 Benzyl alcohol	108	9.926	9.925	(1.026)	65617	5.00000	5.752
	14 2,2'-oxybis(1-Chloropropane)	121	10.221	10.221	(1.057)	35598	5.00000	4.654
	13 2-Methylphenol	108	10.135	10.135	(1.048)	100619	5.00000	5.082
	17 Hexachloroethane	117	10.655	10.663	(1.102)	53774	5.00000	4.744
	16 N-Nitroso-di-n-propylamine	70	10.477	10.477	(1.083)	51995	5.00000	5.012
	15 4-Methylphenol	108	10.415	10.391	(1.077)	64171	5.00000	4.099
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	99206	5.00000	5.108
	19 Nitrobenzene	77	10.795	10.795	(0.888)	89898	5.00000	4.988
	20 Isophorone	82	11.237	11.237	(0.924)	138639	5.00000	5.261
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	77484	5.00000	5.437
	22 2,4-Dimethylphenol	107	11.459	11.450	(0.942)	233647	10.0000	9.994
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	95255	5.00000	4.687
	24 Benzoic acid	105	11.629	11.450	(0.956)	144135	20.0000	21.80
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	184088	10.0000	10.49
	26 1,2,4-Trichlorobenzene	180	12.077	12.069	(0.993)	89467	5.00000	4.984
*	27 Naphthalene-d8	136	12.162	12.162	(1.000)	296095	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	313583	5.00000	4.755
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	271457	10.0000	9.845
	30 Hexachlorobutadiene	225	12.556	12.556	(1.032)	35364	5.00000	4.982
	31 4-Chloro-3-methylphenol	107	13.268	13.260	(1.091)	191413	10.0000	10.12
	32 2-Methylnaphthalene	142	13.601	13.600	(1.118)	251385	5.00000	4.830
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	76872	10.0000	10.67

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.220	14.212	(0.901)	121268	10.0000	10.84
	35	2,4,5-Trichlorophenol	196	14.297	14.289	(0.905)	135597	10.0000	11.16
$	36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	252215	5.00000	4.873
	37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	220667	5.00000	4.791
	38	2-Nitroaniline	65	14.847	14.846	(0.940)	63140	10.0000	10.11
	39	Dimethylphthalate	163	15.257	15.257	(0.966)	208319	5.00000	4.984
	40	Acenaphthylene	152	15.481	15.473	(0.980)	319039	5.00000	4.840
	41	2,6-Dinitrotoluene	165	15.404	15.404	(0.975)	93894	10.0000	10.02
*	42	Acenaphthene-d10	164	15.791	15.791	(1.000)	136492	4.00000	
	43	3-Nitroaniline	138	15.690	15.690	(0.994)	70200	10.0000	7.292
	44	Acenaphthene	153	15.860	15.860	(1.004)	178834	5.00000	4.862
	45	2,4-Dinitrophenol	184	15.907	15.914	(1.007)	122002	20.0000	25.80
	46	Dibenzofuran	168	16.185	16.185	(1.025)	268345	5.00000	4.864
	47	4-Nitrophenol	109	16.007	16.007	(1.014)	53354	10.0000	10.05
	48	2,4-Dinitrotoluene	165	16.224	16.224	(1.027)	135287	10.0000	10.59
	50	Diethylphthalate	149	16.718	16.718	(1.059)	226418	5.00000	4.977
	49	Fluorene	166	16.904	16.896	(1.070)	399689	5.00000	5.222
	51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	125821	5.00000	5.011
	52	4-Nitroaniline	138	16.973	16.973	(1.075)	194624	10.0000	11.65
	53	4,6-Dinitro-2-methylphenol	198	17.066	17.066	(0.906)	215833	20.0000	23.82
	54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	210986	5.00000	4.654
$	55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	21605	7.50000	9.285
	56	4-Bromophenyl-phenylether	248	17.883	17.883	(0.949)	60212	5.00000	5.125
	57	Hexachlorobenzene	284	18.215	18.215	(0.967)	44363	5.00000	4.299
	58	Pentachlorophenol	266	18.587	18.579	(0.986)	10122	10.0000	5.706(M)
*	59	Phenanthrene-d10	188	18.842	18.842	(1.000)	239937	4.00000	
	60	Phenanthrene	178	18.896	18.888	(1.003)	290016	5.00000	4.889
	61	Anthracene	178	18.989	18.981	(1.008)	290053	5.00000	5.036
	62	Carbazole	167	19.299	19.299	(1.024)	311440	5.00000	5.002
	63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	430395	5.00000	5.255
	64	Fluoranthene	202	21.248	21.240	(0.891)	328374	5.00000	4.351
	65	Pyrene	202	21.666	21.666	(0.908)	332794	5.00000	4.174
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	184227	5.00000	4.361
	67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	183541	5.00000	4.575
	68	Benzo(a)anthracene	228	23.819	23.819	(0.999)	208266	5.00000	3.517
*	69	Chrysene-d12	240	23.850	23.850	(1.000)	151837	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.757	23.757	(0.996)	241522	15.0000	12.99
	71	Chrysene	228	23.896	23.896	(1.002)	173112	5.00000	3.851
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.842	(0.957)	290799	5.00000	5.749
*	134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	363176	4.00000	
	73	Di-n-octylphthalate	149	24.910	24.910	(1.000)	404584	5.00000	4.725
	74	Benzo(b)fluoranthene	252	25.901	25.901	(0.967)	168145	5.00000	4.684
	75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	169968	5.00000	4.861
	76	Benzo(a)pyrene	252	26.660	26.660	(0.995)	166321	5.00000	4.947
*	77	Perylene-d12	264	26.791	26.791	(1.000)	98696	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.923	29.907	(1.117)	133404	5.00000	5.004
	79	Dibenzo(a,h)anthracene	278	29.923	29.923	(1.117)	108754	5.00000	5.228
	80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	109434	5.00000	4.937
	90	N-Nitrosodimethylamine	74	5.266	5.266	(0.545)	123371	10.0000	9.918
	91	Aniline	93	9.113	9.113	(0.942)	280126	10.0000	10.06
	93	Benzidine	184	21.457	21.457	(0.900)	312621	10.0000	8.827
	103	Pyridine	79	5.290	5.282	(0.547)	184861	5.00000	4.495
	105	1-methylnaphthalene	142	13.825	13.825	(1.137)	248918	5.00000	4.918
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.205	(1.090)	267742	5.00000	4.906

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.901	(0.967)	325926	10.0000	9.561
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.517	(1.046)	36277	5.00000	5.871

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010406.D
Lab Smp Id: SLA0012-CAL5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	76684	0.00
27 Naphthalene-d8	296095	148048	592190	296095	0.00
42 Acenaphthene-d10	136492	68246	272984	136492	0.00
59 Phenanthrene-d10	239937	119969	479874	239937	0.00
69 Chrysene-d12	151837	75919	303674	151837	0.00
134 Di-n-octylphthala	363176	181588	726352	363176	0.00
77 Perylene-d12	98696	49348	197392	98696	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	0.00
77 Perylene-d12	26.79	26.29	27.29	26.79	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010406.D

Lab ID: SLA0012-CAL5
nt10.i, ABN.m, 04-JAN-2023 12:29

RT	CO-ELUTION COMPOUNDS
29.924	Indeno(1,2,3-cd)pyrene and Dibenzo(a,h)anthracene
29.924	Dibenzo(a,h)anthracene and Indeno(1,2,3-cd)pyrene

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.956	0.942	0.0147	Benzoic acid

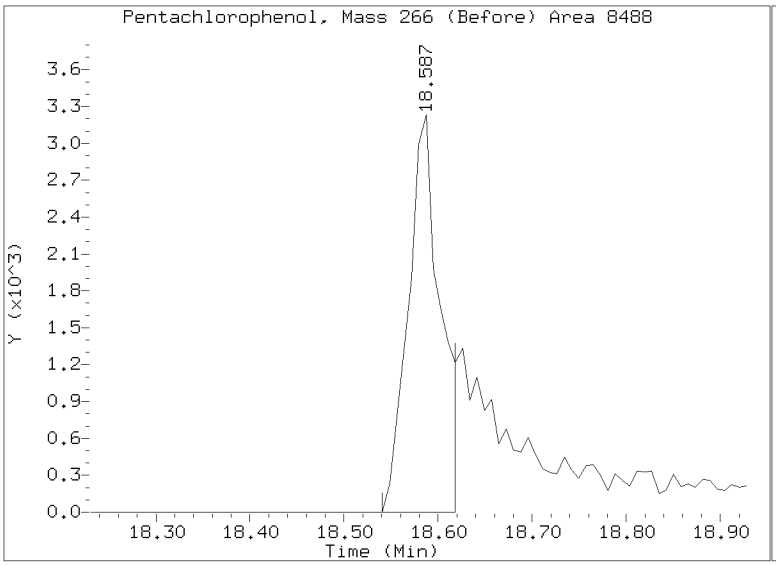
RRT check based on Ccal File: NT1023010414.D

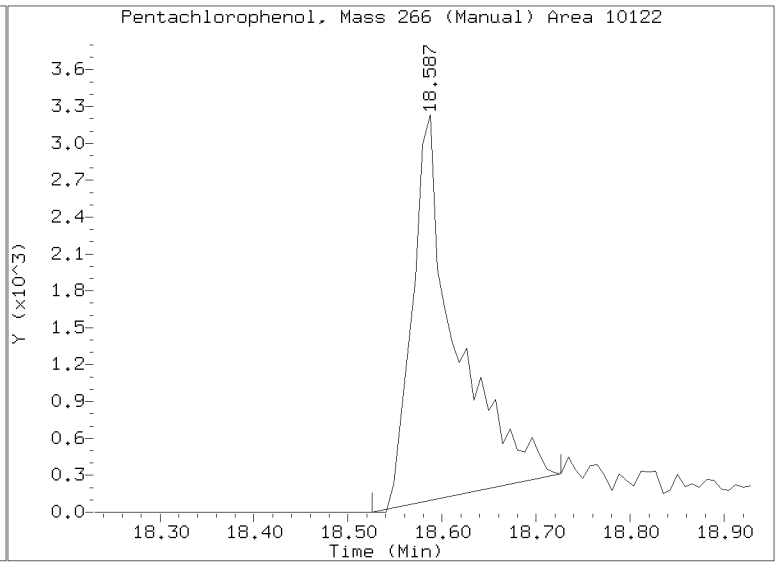
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010406.D
Injection Date: 04-JAN-2023 12:29
Lab ID:SLA0012-CAL5 Client ID:
Report Date: 01/05/2023 11:53



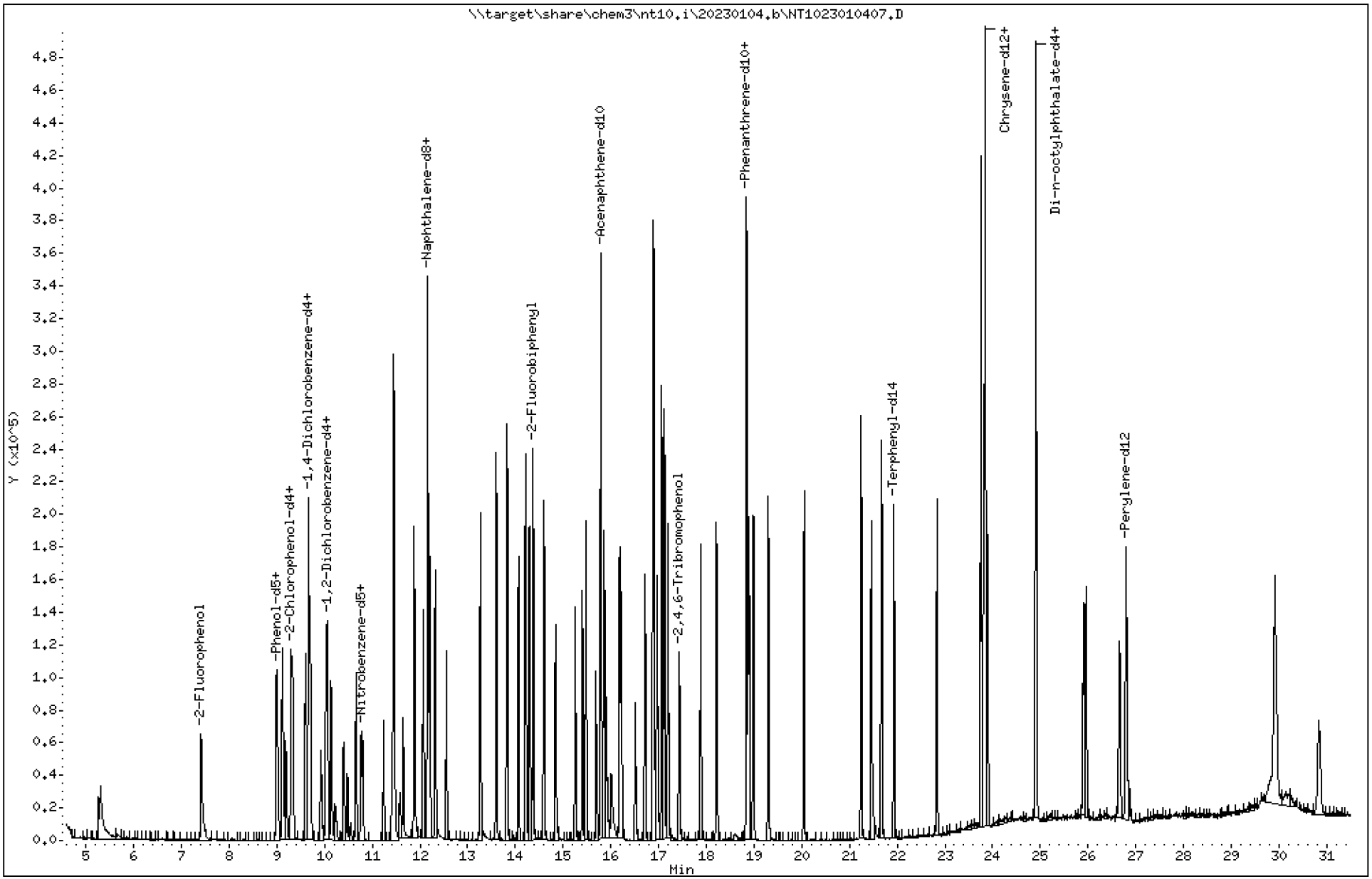


APPROVED

By Deenay Dunmore at 11:59 am, Jan 05, 2023

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010407.D
Date : 04-JAN-2023 13:07
Client ID:
Sample Info: SLA0012-CAL4

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010407.D
Lab Smp Id: SLA0012-CAL4
Inj Date : 04-JAN-2023 13:07
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 13:07 Cal File: NT1023010407.D
Als bottle: 6 Calibration Sample, Level: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	89233	3.75000	3.685
$	2 Phenol-d5	99	8.989	8.989	(0.930)	108463	3.75000	3.525
	3 Phenol	94	9.012	9.012	(0.932)	73331	2.50000	2.462
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	104646	3.75000	3.552
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.950)	62578	2.50000	2.282
	6 2-Chlorophenol	128	9.329	9.329	(0.965)	74392	2.50000	2.434
	7 1,3-Dichlorobenzene	146	9.608	9.607	(0.994)	78211	2.50000	2.395
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	83197	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.701	(1.003)	66412	2.50000	2.364
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.038)	44189	2.50000	2.414
	12 1,2-Dichlorobenzene	146	10.058	10.057	(1.040)	68363	2.50000	2.414
	11 Benzyl alcohol	108	9.926	9.925	(1.026)	31871	2.50000	2.575
	14 2,2'-oxybis(1-Chloropropane)	121	10.221	10.221	(1.057)	19250	2.50000	2.320
	13 2-Methylphenol	108	10.135	10.135	(1.048)	53620	2.50000	2.496
	17 Hexachloroethane	117	10.663	10.663	(1.103)	27695	2.50000	2.252
	16 N-Nitroso-di-n-propylamine	70	10.477	10.477	(1.083)	26940	2.50000	2.394
	15 4-Methylphenol	108	10.415	10.391	(1.077)	33856	2.50000	1.993
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	50640	2.50000	2.413
	19 Nitrobenzene	77	10.795	10.795	(0.888)	47642	2.50000	2.447
	20 Isophorone	82	11.237	11.237	(0.924)	69424	2.50000	2.438
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	39945	2.50000	2.594
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	122199	5.00000	4.838
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	54441	2.50000	2.480
	24 Benzoic acid	105	11.586	11.450	(0.953)	22519	10.0000	3.153
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	95785	5.00000	5.053
	26 1,2,4-Trichlorobenzene	180	12.077	12.069	(0.993)	48007	2.50000	2.475
*	27 Naphthalene-d8	136	12.162	12.162	(1.000)	319900	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	167832	2.50000	2.355
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	134585	5.00000	4.518
	30 Hexachlorobutadiene	225	12.556	12.556	(1.032)	17557	2.50000	2.289
	31 4-Chloro-3-methylphenol	107	13.268	13.260	(1.091)	93096	5.00000	4.554
	32 2-Methylnaphthalene	142	13.601	13.600	(1.118)	128325	2.50000	2.282
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	35113	5.00000	4.590

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	58927	5.00000	4.960
	35	2,4,5-Trichlorophenol	196	14.297	14.289	(0.905)	59502	5.00000	4.612
$	36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	131293	2.50000	2.389
	37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	116286	2.50000	2.378
	38	2-Nitroaniline	65	14.839	14.846	(0.940)	31685	5.00000	4.776
	39	Dimethylphthalate	163	15.257	15.257	(0.966)	114481	2.50000	2.580
	40	Acenaphthylene	152	15.474	15.473	(0.980)	168820	2.50000	2.412
	41	2,6-Dinitrotoluene	165	15.404	15.404	(0.975)	49085	5.00000	4.935
*	42	Acenaphthene-d10	164	15.791	15.791	(1.000)	144919	4.00000	
	43	3-Nitroaniline	138	15.690	15.690	(0.994)	41940	5.00000	4.103
	44	Acenaphthene	153	15.860	15.860	(1.004)	91170	2.50000	2.335
	45	2,4-Dinitrophenol	184	15.907	15.914	(1.007)	38086	10.0000	7.585
	46	Dibenzofuran	168	16.185	16.185	(1.025)	138594	2.50000	2.366
	47	4-Nitrophenol	109	16.015	16.007	(1.014)	21372	5.00000	3.790
	48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	67092	5.00000	4.947
	50	Diethylphthalate	149	16.718	16.718	(1.059)	116483	2.50000	2.412
	49	Fluorene	166	16.896	16.896	(1.070)	214619	2.50000	2.641
	51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	66955	2.50000	2.511
	52	4-Nitroaniline	138	16.973	16.973	(1.075)	98506	5.00000	5.555
	53	4,6-Dinitro-2-methylphenol	198	17.066	17.066	(0.906)	99984	10.0000	10.15
	54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	118370	2.50000	2.401
$	55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	9427	3.75000	3.816
	56	4-Bromophenyl-phenylether	248	17.883	17.883	(0.949)	30092	2.50000	2.355
	57	Hexachlorobenzene	284	18.215	18.215	(0.967)	25936	2.50000	2.311
	58	Pentachlorophenol	266	18.595	18.579	(0.987)	871	5.00000	0.4515
*	59	Phenanthrene-d10	188	18.842	18.842	(1.000)	260963	4.00000	
	60	Phenanthrene	178	18.889	18.888	(1.002)	149201	2.50000	2.312
	61	Anthracene	178	18.981	18.981	(1.007)	149268	2.50000	2.383
	62	Carbazole	167	19.299	19.299	(1.024)	161246	2.50000	2.381
	63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	213670	2.50000	2.398
	64	Fluoranthene	202	21.248	21.240	(0.891)	161737	2.50000	2.034
	65	Pyrene	202	21.674	21.666	(0.909)	169504	2.50000	2.018
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	93925	2.50000	2.110
	67	Butylbenzylphthalate	149	22.835	22.827	(0.957)	94234	2.50000	2.230
	68	Benzo(a)anthracene	228	23.819	23.819	(0.999)	118572	2.50000	1.900
*	69	Chrysene-d12	240	23.850	23.850	(1.000)	159977	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.757	23.757	(0.996)	125618	7.50000	6.411
	71	Chrysene	228	23.896	23.896	(1.002)	90733	2.50000	1.916
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.842	(0.957)	143321	2.50000	2.822
*	134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	364708	4.00000	
	73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	198694	2.50000	2.311
	74	Benzo(b)fluoranthene	252	25.901	25.901	(0.966)	92464	2.50000	2.466
	75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	88796	2.50000	2.431
	76	Benzo(a)pyrene	252	26.660	26.660	(0.995)	84974	2.50000	2.419
*	77	Perylene-d12	264	26.799	26.791	(1.000)	103103	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	69876	2.50000	2.509
	79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	55128	2.50000	2.537
	80	Benzo(g,h,i)perylene	276	30.840	30.840	(1.151)	55831	2.50000	2.411
	90	N-Nitrosodimethylamine	74	5.267	5.266	(0.545)	59948	5.00000	4.442
	91	Aniline	93	9.121	9.113	(0.943)	140967	5.00000	4.667
	93	Benzidine	184	21.457	21.457	(0.900)	149774	5.00000	4.014
	103	Pyridine	79	5.305	5.282	(0.549)	55997	2.50000	1.255
	105	1-methylnaphthalene	142	13.825	13.825	(1.137)	124214	2.50000	2.272
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.197	17.205	(1.089)	142220	2.50000	2.454

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	173998	5.00000	4.886
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.517	(1.046)	15271	2.50000	2.328

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010407.D
Lab Smp Id: SLA0012-CAL4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	83197	8.49
27 Naphthalene-d8	296095	148048	592190	319900	8.04
42 Acenaphthene-d10	136492	68246	272984	144919	6.17
59 Phenanthrene-d10	239937	119969	479874	260963	8.76
69 Chrysene-d12	151837	75919	303674	159977	5.36
134 Di-n-octylphthala	363176	181588	726352	364708	0.42
77 Perylene-d12	98696	49348	197392	103103	4.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010407.D

Lab ID: SLA0012-CAL4
nt10.i, ABN.m, 04-JAN-2023 13:07

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.953	0.942	0.0112	Benzoic acid

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010408.D

Date : 04-JAN-2023 13:46

Client ID:

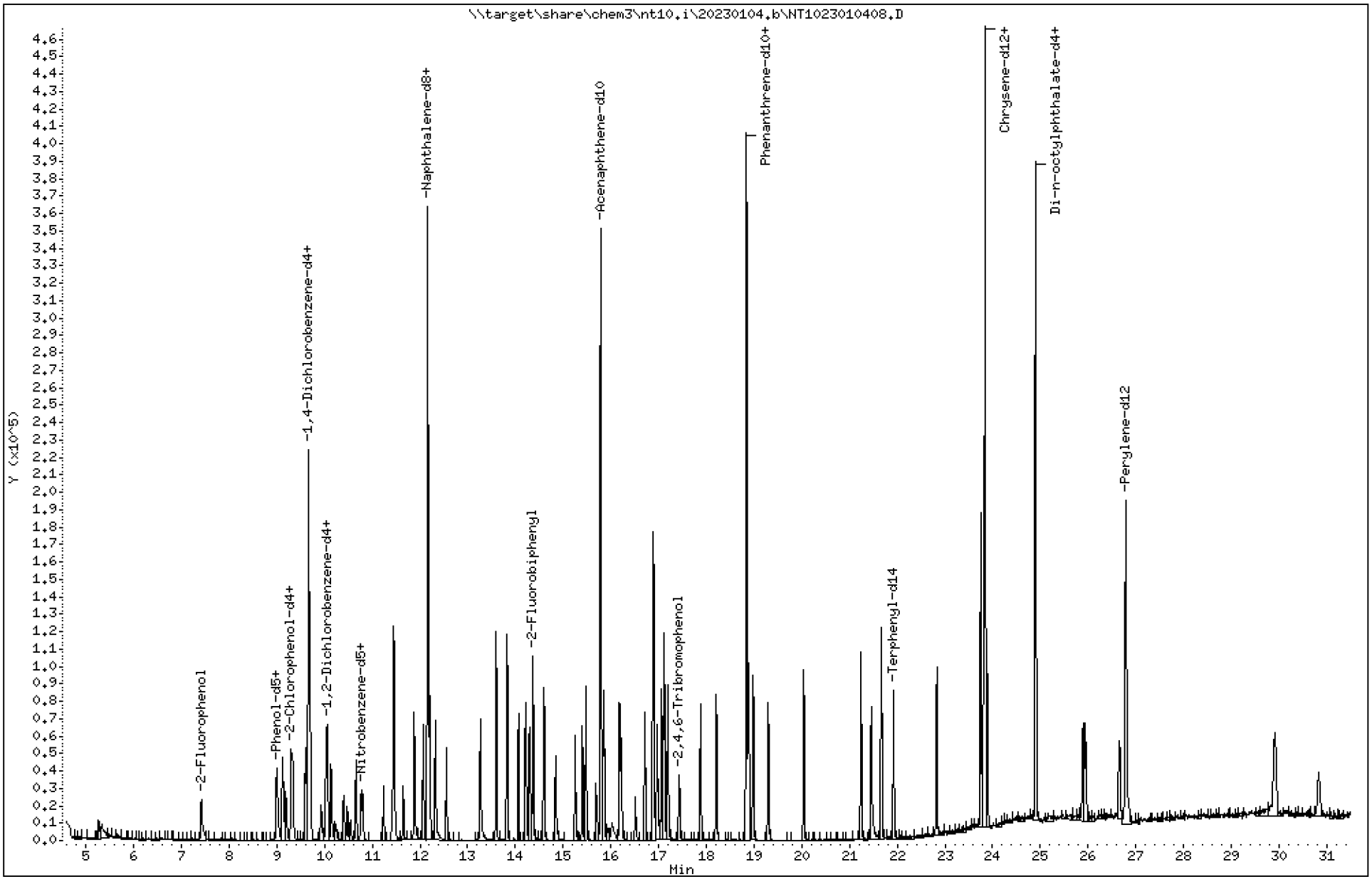
Instrument: nt10.i

Sample Info: SLA0012-CAL3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010408.D
Lab Smp Id: SLA0012-CAL3
Inj Date : 04-JAN-2023 13:46
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 13:46 Cal File: NT1023010408.D
Als bottle: 7 Calibration Sample, Level: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	32313	1.50000	1.213
$	2 Phenol-d5	99	8.989	8.989	(0.930)	42379	1.50000	1.246(M)
	3 Phenol	94	9.012	9.012	(0.932)	31760	1.00000	0.9472
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	46941	1.50000	1.428
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.950)	32385	1.00000	1.034
	6 2-Chlorophenol	128	9.329	9.329	(0.965)	35246	1.00000	1.012
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	36301	1.00000	0.9929
*	8 1,4-Dichlorobenzene-d4	152	9.669	9.670	(1.000)	95500	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.003)	31139	1.00000	0.9904
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.038)	19276	1.00000	0.9417
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.040)	31276	1.00000	0.9804
	11 Benzyl alcohol	108	9.933	9.925	(1.027)	12570	1.00000	0.8814
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.057)	9534	1.00000	1.015(M)
	13 2-Methylphenol	108	10.135	10.135	(1.048)	24103	1.00000	0.9883
	17 Hexachloroethane	117	10.663	10.663	(1.103)	12910	1.00000	0.9353
	16 N-Nitroso-di-n-propylamine	70	10.476	10.477	(1.083)	12543	1.00000	0.9762
	15 4-Methylphenol	108	10.414	10.391	(1.077)	15763	1.00000	0.8930
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	22539	1.00000	0.9672
	19 Nitrobenzene	77	10.795	10.795	(0.888)	21696	1.00000	0.9963
	20 Isophorone	82	11.237	11.237	(0.924)	30498	1.00000	0.9497
	21 2-Nitrophenol	139	11.433	11.425	(0.940)	16639	1.00000	0.9095
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	54603	2.00000	1.963
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	25055	1.00000	1.040
	24 Benzoic acid	105	11.713	11.450	(0.963)	449	4.00000	0.05893
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	40582	2.00000	1.921
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	24817	1.00000	1.071
*	27 Naphthalene-d8	136	12.161	12.162	(1.000)	360075	4.00000	
	28 Naphthalene	128	12.200	12.208	(1.003)	78293	1.00000	0.9888
	29 4-Chloroaniline	127	12.324	12.316	(1.013)	68801	2.00000	2.085
	30 Hexachlorobutadiene	225	12.555	12.556	(1.032)	8943	1.00000	1.039
	31 4-Chloro-3-methylphenol	107	13.267	13.260	(1.091)	37562	2.00000	1.664
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	60000	1.00000	0.9581
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	13697	2.00000	1.682

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	23954	2.00000	1.858
35	2,4,5-Trichlorophenol	196	14.297	14.289	(0.905)	24361	2.00000	1.759
$ 36	2-Fluorobiphenyl	172	14.366	14.374	(0.910)	59953	1.00000	1.017
37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	55069	1.00000	1.045
38	2-Nitroaniline	65	14.838	14.846	(0.940)	12103	2.00000	1.708
39	Dimethylphthalate	163	15.256	15.257	(0.966)	54290	1.00000	1.131
40	Acenaphthylene	152	15.473	15.473	(0.980)	81035	1.00000	1.071
41	2,6-Dinitrotoluene	165	15.404	15.404	(0.975)	23356	2.00000	2.142
* 42	Acenaphthene-d10	164	15.790	15.791	(1.000)	159191	4.00000	
43	3-Nitroaniline	138	15.690	15.690	(0.994)	19120	2.00000	1.974
44	Acenaphthene	153	15.852	15.860	(1.004)	41297	1.00000	0.9831
45	2,4-Dinitrophenol	184	15.914	15.914	(1.008)	5297	4.00000	1.032
46	Dibenzofuran	168	16.185	16.185	(1.025)	65652	1.00000	1.029
47	4-Nitrophenol	109	16.038	16.007	(1.016)	6749	2.00000	1.134
48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	28081	2.00000	1.919
50	Diethylphthalate	149	16.710	16.718	(1.058)	53638	1.00000	1.059
49	Fluorene	166	16.896	16.896	(1.070)	101500	1.00000	1.083
51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	27217	1.00000	0.9043
52	4-Nitroaniline	138	16.965	16.973	(1.074)	42415	2.00000	2.196
53	4,6-Dinitro-2-methylphenol	198	17.066	17.066	(0.906)	34353	4.00000	3.251
54	N-Nitrosodiphenylamine	169	17.112	17.120	(0.908)	59761	1.00000	1.144
$ 55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	3613	1.50000	1.319
56	4-Bromophenyl-phenylether	248	17.883	17.883	(0.949)	13618	1.00000	0.9906
57	Hexachlorobenzene	284	18.215	18.215	(0.967)	10338	1.00000	0.8794
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.842	18.842	(1.000)	282107	4.00000	
60	Phenanthrene	178	18.888	18.888	(1.002)	68701	1.00000	1.004
61	Anthracene	178	18.981	18.981	(1.007)	67329	1.00000	1.008
62	Carbazole	167	19.298	19.299	(1.024)	73523	1.00000	1.021
63	Di-n-butylphthalate	149	20.041	20.049	(1.064)	90044	1.00000	0.9347
64	Fluoranthene	202	21.240	21.240	(0.891)	74531	1.00000	0.9405
65	Pyrene	202	21.666	21.666	(0.909)	76544	1.00000	0.9305
$ 66	Terphenyl-d14	244	21.929	21.929	(0.920)	41401	1.00000	0.9447
67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	41255	1.00000	0.9649
68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	46037	1.00000	0.8258
* 69	Chrysene-d12	240	23.842	23.850	(1.000)	180863	4.00000	
70	3,3'-Dichlorobenzidine	252	23.756	23.757	(0.996)	58058	3.00000	2.870
71	Chrysene	228	23.888	23.896	(1.002)	43847	1.00000	0.9794
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.842	(0.957)	64601	1.00000	1.128
* 134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	372889	4.00000	
73	Di-n-octylphthalate	149	24.910	24.910	(1.000)	88412	1.00000	1.025
74	Benzo(b)fluoranthene	252	25.893	25.901	(0.966)	38998	1.00000	0.9920
75	Benzo(k)fluoranthene	252	25.939	25.955	(0.968)	36872	1.00000	0.9626
76	Benzo(a)pyrene	252	26.659	26.660	(0.995)	36424	1.00000	0.9716
* 77	Perylene-d12	264	26.791	26.791	(1.000)	109138	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.907	29.907	(1.116)	27765	1.00000	0.9422
79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	23950	1.00000	1.034
80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	22297	1.00000	0.9171(M)
90	N-Nitrosodimethylamine	74	5.266	5.266	(0.545)	21671	2.00000	1.447
91	Aniline	93	9.120	9.113	(0.943)	62480	2.00000	1.882
93	Benzidine	184	21.457	21.457	(0.900)	62312	2.00000	1.717
103	Pyridine	79	5.328	5.282	(0.551)	14840	1.00000	0.3282
105	1-methylnaphthalene	142	13.825	13.825	(1.137)	59575	1.00000	0.9736
111	Azobenzene (1,2-DP-Hydrazine)	77	17.197	17.205	(1.089)	68597	1.00000	1.093

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.939	25.901	(0.968)	72233	2.00000	1.940
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.517	(1.046)	5703	1.00000	0.7842

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010408.D
Lab Smp Id: SLA0012-CAL3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	95500	24.54
27 Naphthalene-d8	296095	148048	592190	360075	21.61
42 Acenaphthene-d10	136492	68246	272984	159191	16.63
59 Phenanthrene-d10	239937	119969	479874	282107	17.58
69 Chrysene-d12	151837	75919	303674	180863	19.12
134 Di-n-octylphthala	363176	181588	726352	372889	2.67
77 Perylene-d12	98696	49348	197392	109138	10.58

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	-0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.84	-0.03
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.79	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010408.D

Lab ID: SLA0012-CAL3
nt10.i, ABN.m, 04-JAN-2023 13:46

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.963	0.942	0.0216	Benzoic acid

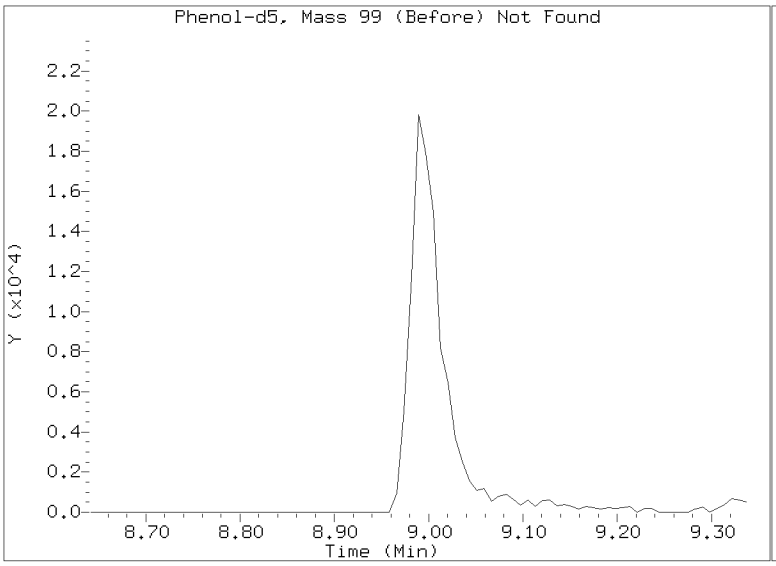
RRT check based on Ccal File: NT1023010414.D

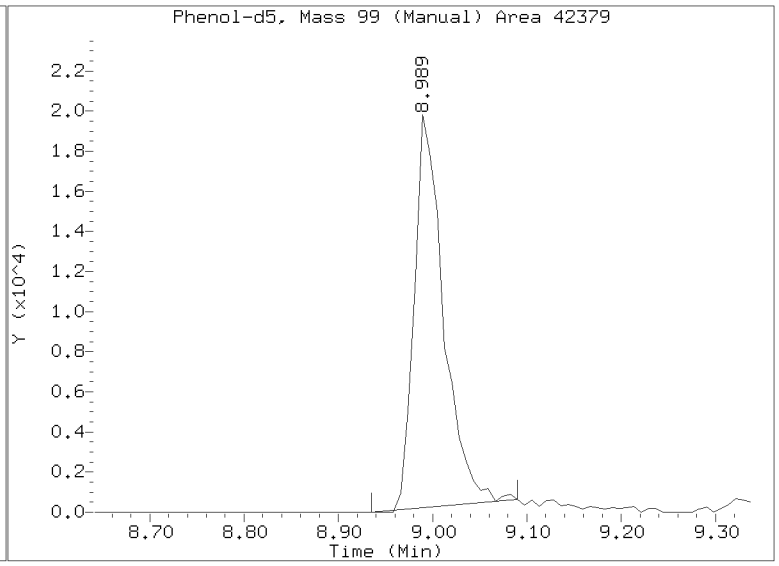
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

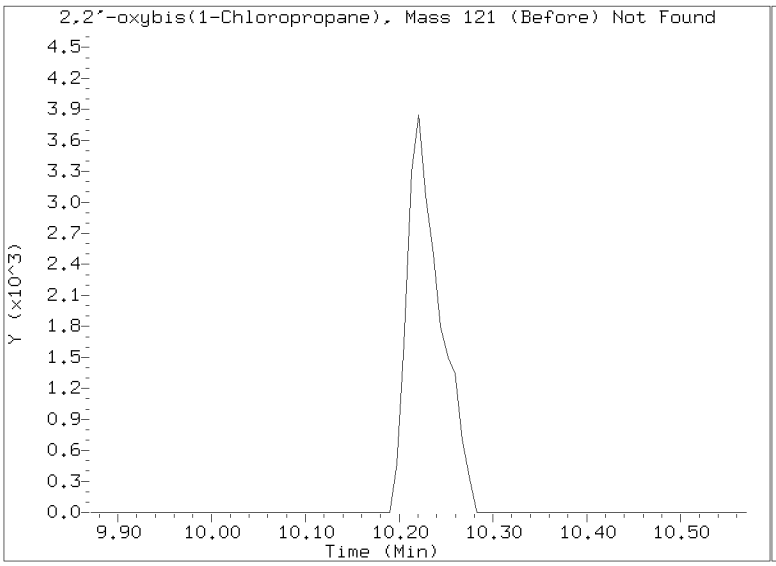
* Only compounds listed in the work order have been verified by the analyst *

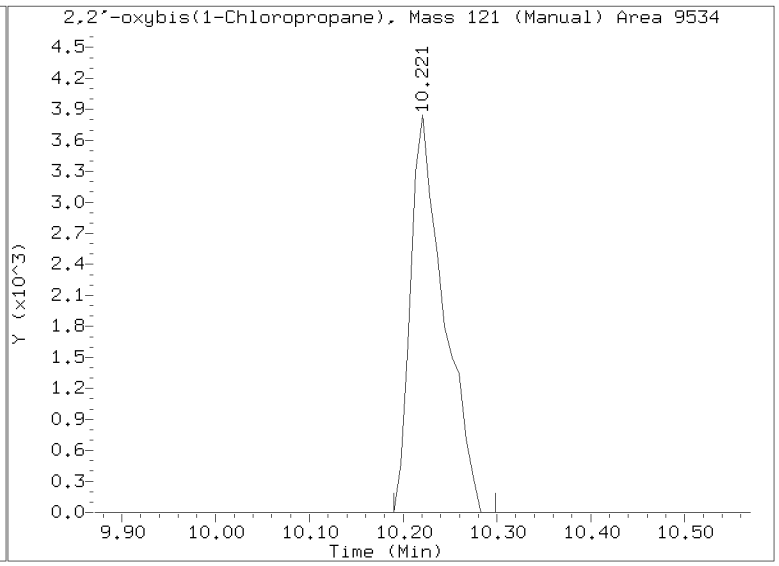
Quant Ion Manual Peak Adjustment Report

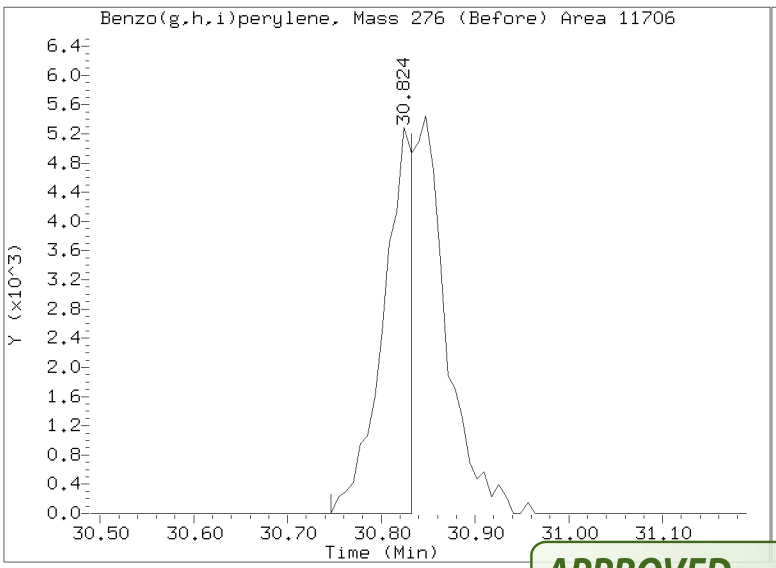
Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010408.D
Injection Date: 04-JAN-2023 13:46
Lab ID:SLA0012-CAL3 Client ID:
Report Date: 01/05/2023 11:53

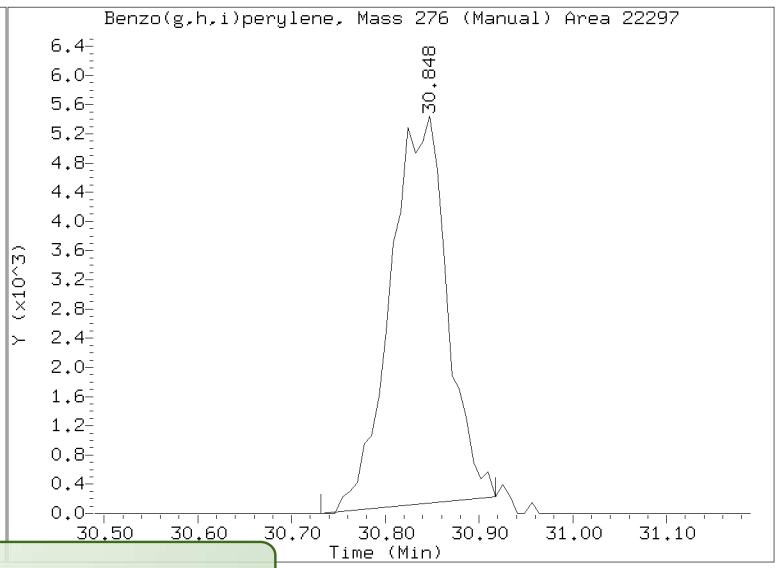








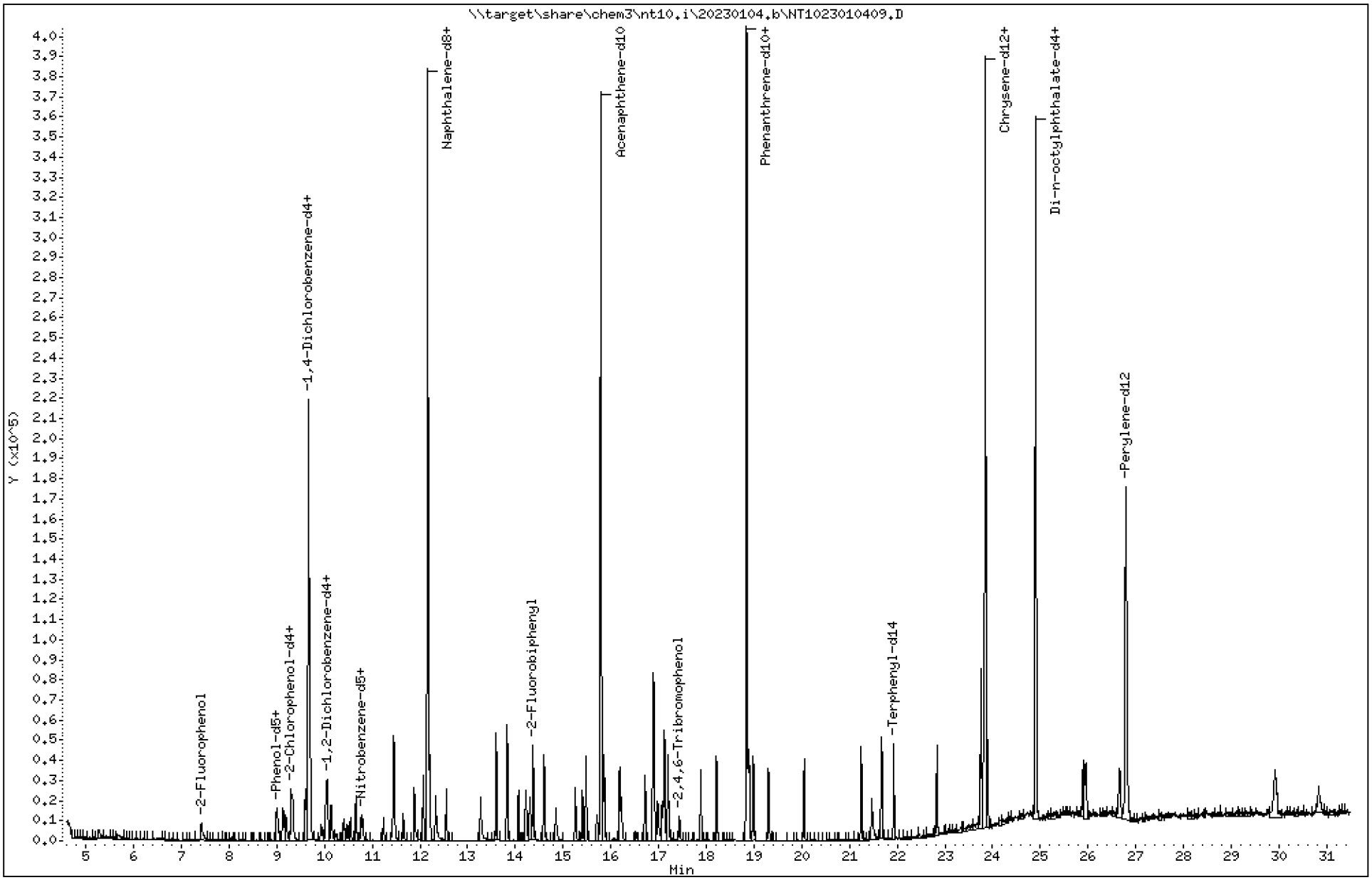




APPROVED
By Deenay Dunmore at 11:58 am, Jan 05, 2023

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010409.D
Date : 04-JAN-2023 14:24
Client ID:
Sample Info: SLA0012-CAL2

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010409.D
Lab Smp Id: SLA0012-CAL2
Inj Date : 04-JAN-2023 14:24
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 14:24 Cal File: NT1023010409.D
Als bottle: 8 Calibration Sample, Level: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	14494	0.75000	0.5408
$	2 Phenol-d5	99	8.997	8.989	(0.930)	18399	0.75000	0.5379(M)
	3 Phenol	94	9.020	9.012	(0.933)	14882	0.50000	0.4412
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	22097	0.75000	0.6685
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.950)	16920	0.50000	0.5370
	6 2-Chlorophenol	128	9.329	9.329	(0.965)	15530	0.50000	0.4433
	7 1,3-Dichlorobenzene	146	9.600	9.607	(0.993)	18901	0.50000	0.5140
*	8 1,4-Dichlorobenzene-d4	152	9.670	9.670	(1.000)	96063	4.00000	
	9 1,4-Dichlorobenzene	146	9.701	9.701	(1.003)	15907	0.50000	0.5030
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.038)	9217	0.50000	0.4476
	12 1,2-Dichlorobenzene	146	10.058	10.057	(1.040)	15407	0.50000	0.4801
	11 Benzyl alcohol	108	9.933	9.925	(1.027)	5562	0.50000	0.3877
	14 2,2'-oxybis(1-Chloropropane)	121	10.213	10.221	(1.056)	4492	0.50000	0.4753(M)
	13 2-Methylphenol	108	10.135	10.135	(1.048)	12109	0.50000	0.4936
	17 Hexachloroethane	117	10.655	10.663	(1.102)	6423	0.50000	0.4626
	16 N-Nitroso-di-n-propylamine	70	10.477	10.477	(1.083)	5971	0.50000	0.4620(M)
	15 4-Methylphenol	108	10.415	10.391	(1.077)	7870	0.50000	0.4432
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	9487	0.50000	0.4006
	19 Nitrobenzene	77	10.795	10.795	(0.888)	9238	0.50000	0.4174
	20 Isophorone	82	11.237	11.237	(0.924)	12951	0.50000	0.3968(M)
	21 2-Nitrophenol	139	11.433	11.425	(0.940)	7259	0.50000	0.3904
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	23598	1.00000	0.8349
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	11992	0.50000	0.4899
	24 Benzoic acid	105	11.459	11.450	(0.942)	751	2.00000	0.09698
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	15355	1.00000	0.7152
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	12198	0.50000	0.5181
*	27 Naphthalene-d8	136	12.162	12.162	(1.000)	365952	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	40343	0.50000	0.5013
	29 4-Chloroaniline	127	12.324	12.316	(1.013)	22384	1.00000	0.6675
	30 Hexachlorobutadiene	225	12.556	12.556	(1.032)	4485	0.50000	0.5127
	31 4-Chloro-3-methylphenol	107	13.268	13.260	(1.091)	16142	1.00000	0.7037
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	29301	0.50000	0.4604
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	4920	1.00000	0.6066

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.220	14.212	(0.901)	8516	1.00000	0.6631
35	2,4,5-Trichlorophenol	196	14.305	14.289	(0.906)	9192	1.00000	0.6665
$ 36	2-Fluorobiphenyl	172	14.367	14.374	(0.910)	28375	0.50000	0.4831
37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	26483	0.50000	0.5046
38	2-Nitroaniline	65	14.854	14.846	(0.941)	4859	1.00000	0.6884
39	Dimethylphthalate	163	15.257	15.257	(0.966)	25914	0.50000	0.5420
40	Acenaphthylene	152	15.473	15.473	(0.980)	38843	0.50000	0.5152
41	2,6-Dinitrotoluene	165	15.404	15.404	(0.975)	10418	1.00000	0.9592
* 42	Acenaphthene-d10	164	15.791	15.791	(1.000)	158556	4.00000	
43	3-Nitroaniline	138	15.713	15.690	(0.995)	8728	1.00000	0.9047
44	Acenaphthene	153	15.860	15.860	(1.004)	19934	0.50000	0.4764
45	2,4-Dinitrophenol	184	15.953	15.914	(1.010)	75	2.00000	0.01467(M)
46	Dibenzofuran	168	16.185	16.185	(1.025)	31775	0.50000	0.4998
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	11231	1.00000	0.7707
50	Diethylphthalate	149	16.718	16.718	(1.059)	24886	0.50000	0.4935
49	Fluorene	166	16.904	16.896	(1.070)	48041	0.50000	0.5147
51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	15204	0.50000	0.5072
52	4-Nitroaniline	138	16.981	16.973	(1.075)	15739	1.00000	0.8183
53	4,6-Dinitro-2-methylphenol	198	17.074	17.066	(0.906)	7355	2.00000	0.6911
54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	28696	0.50000	0.5456
$ 55	2,4,6-Tribromophenol	330	17.444	17.436	(1.105)	1251	0.75000	0.4584
56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.950)	6063	0.50000	0.4379
57	Hexachlorobenzene	284	18.215	18.215	(0.967)	6039	0.50000	0.5100
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.842	18.842	(1.000)	284131	4.00000	
60	Phenanthrene	178	18.896	18.888	(1.003)	33910	0.50000	0.4919
61	Anthracene	178	18.981	18.981	(1.007)	30805	0.50000	0.4578
62	Carbazole	167	19.299	19.299	(1.024)	31785	0.50000	0.4383
63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	40154	0.50000	0.4138
64	Fluoranthene	202	21.248	21.240	(0.891)	33402	0.50000	0.4252
65	Pyrene	202	21.674	21.666	(0.909)	36064	0.50000	0.4423
$ 66	Terphenyl-d14	244	21.929	21.929	(0.919)	19265	0.50000	0.4435
67	Butylbenzylphthalate	149	22.835	22.827	(0.957)	19152	0.50000	0.4519
68	Benzo(a)anthracene	228	23.819	23.819	(0.999)	25496	0.50000	0.4614
* 69	Chrysene-d12	240	23.850	23.850	(1.000)	179277	4.00000	
70	3,3'-Dichlorobenzidine	252	23.757	23.757	(0.996)	25535	1.50000	1.274
71	Chrysene	228	23.896	23.896	(1.002)	21236	0.50000	0.4785
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.842	(0.957)	31072	0.50000	0.5600
* 134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	361323	4.00000	
73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	40535	0.50000	0.4851
74	Benzo(b)fluoranthene	252	25.893	25.901	(0.966)	18010	0.50000	0.4527
75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	20298	0.50000	0.5237
76	Benzo(a)pyrene	252	26.660	26.660	(0.995)	17694	0.50000	0.4664
* 77	Perylene-d12	264	26.791	26.791	(1.000)	110433	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.923	29.907	(1.117)	13970	0.50000	0.4685
79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	10515	0.50000	0.4488
80	Benzo(g,h,i)perylene	276	30.840	30.840	(1.151)	10402	0.50000	0.4228(M)
90	N-Nitrosodimethylamine	74	5.274	5.266	(0.545)	10040	1.00000	0.6663
91	Aniline	93	9.128	9.113	(0.944)	23347	1.00000	0.6993
93	Benzidine	184	21.473	21.457	(0.900)	23719	1.00000	0.6593
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	13.825	13.825	(1.137)	28500	0.50000	0.4583
111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.205	(1.090)	33670	0.50000	0.5384

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	36703	1.00000	0.9744
120 2,3,4,6-Tetrachlorophenol	232	16.525	16.517	(1.047)	1676	0.50000	0.2314

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010409.D
Lab Smp Id: SLA0012-CAL2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	96063	25.27
27 Naphthalene-d8	296095	148048	592190	365952	23.59
42 Acenaphthene-d10	136492	68246	272984	158556	16.17
59 Phenanthrene-d10	239937	119969	479874	284131	18.42
69 Chrysene-d12	151837	75919	303674	179277	18.07
134 Di-n-octylphthala	363176	181588	726352	361323	-0.51
77 Perylene-d12	98696	49348	197392	110433	11.89

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	-0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.79	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010409.D

Lab ID: SLA0012-CAL2
nt10.i, ABN.m, 04-JAN-2023 14:24

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

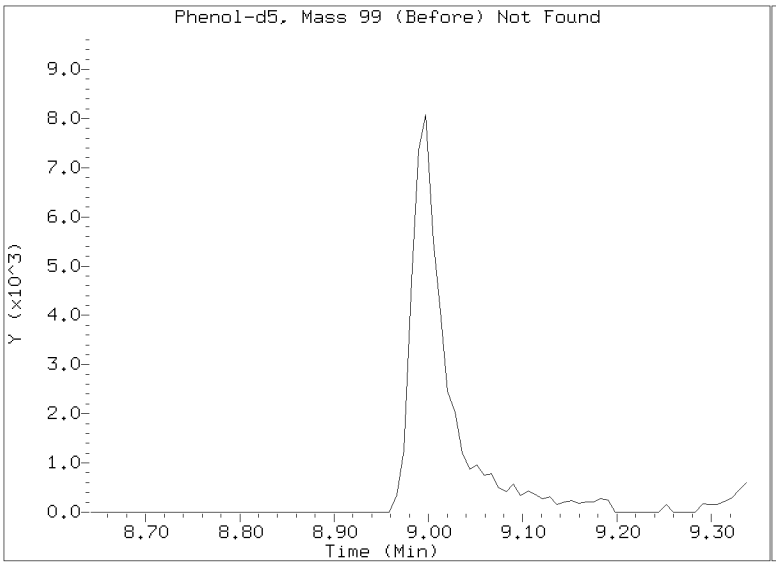
RRT check based on Ccal File: NT1023010414.D

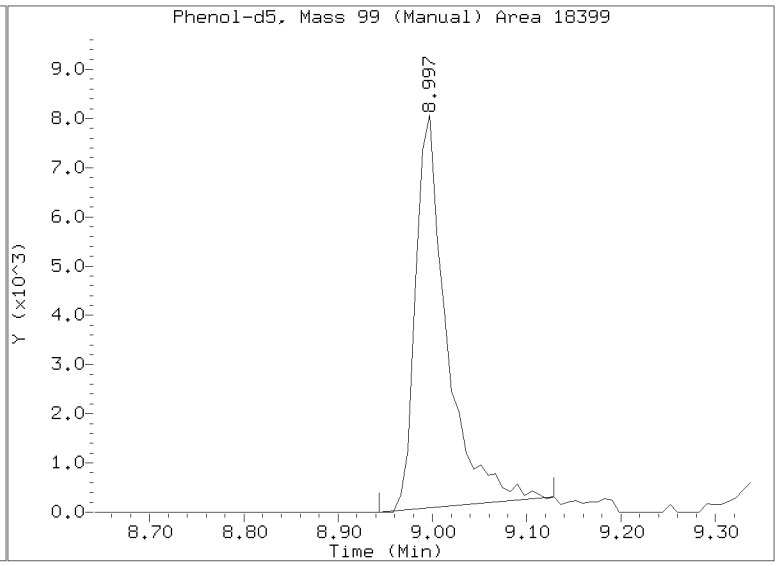
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

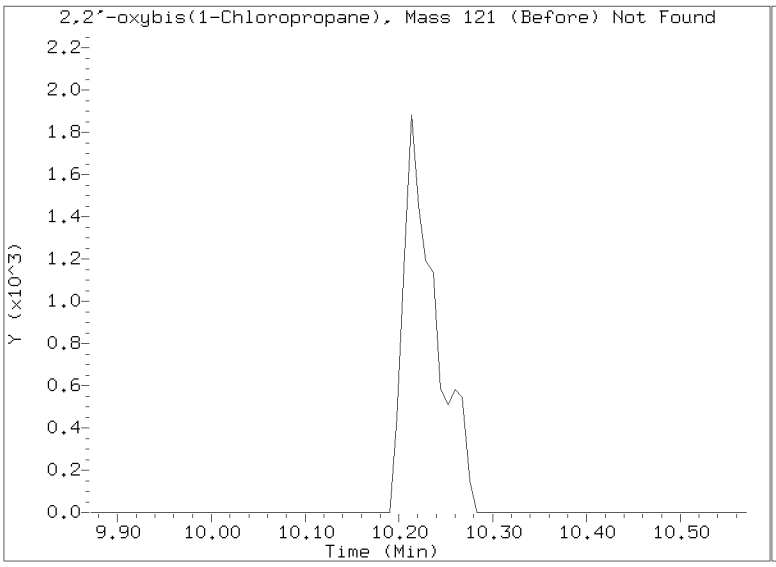
* Only compounds listed in the work order have been verified by the analyst *

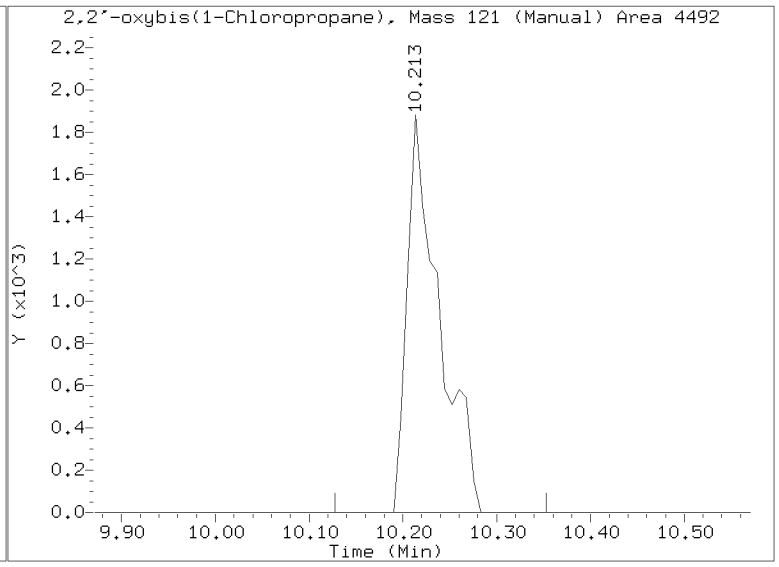
Quant Ion Manual Peak Adjustment Report

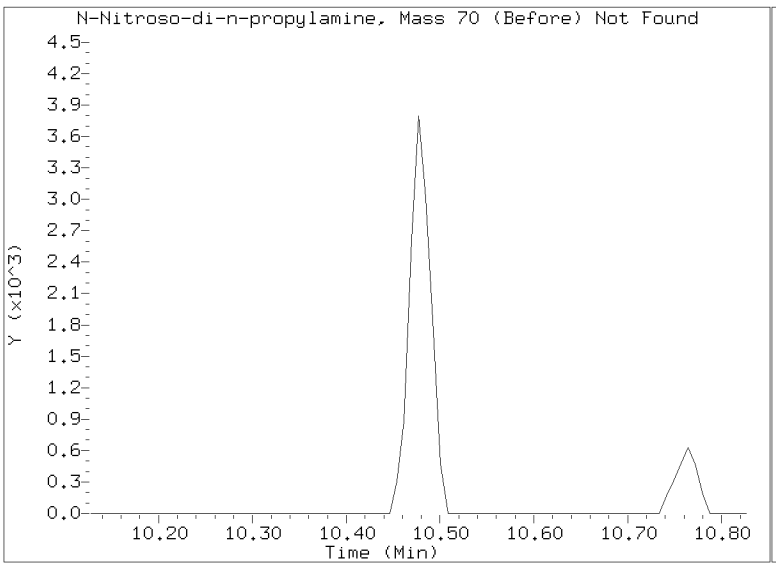
Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010409.D
Injection Date: 04-JAN-2023 14:24
Lab ID:SLA0012-CAL2 Client ID:
Report Date: 01/05/2023 11:53

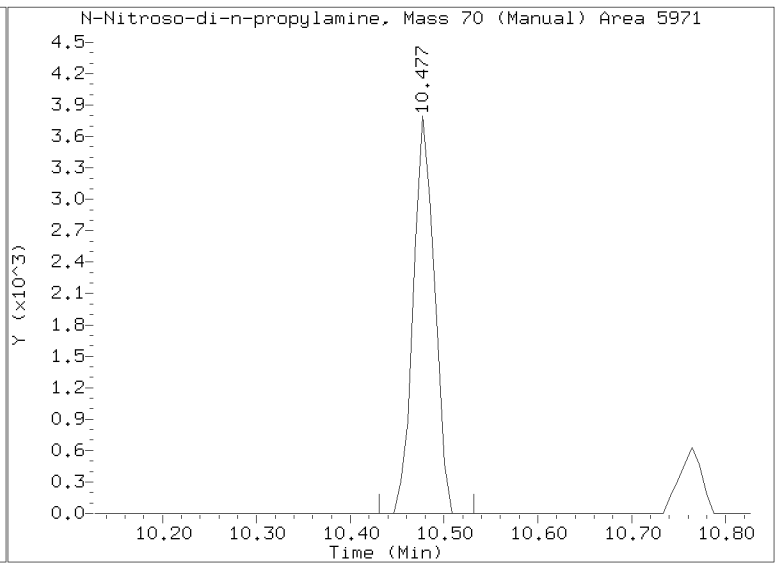






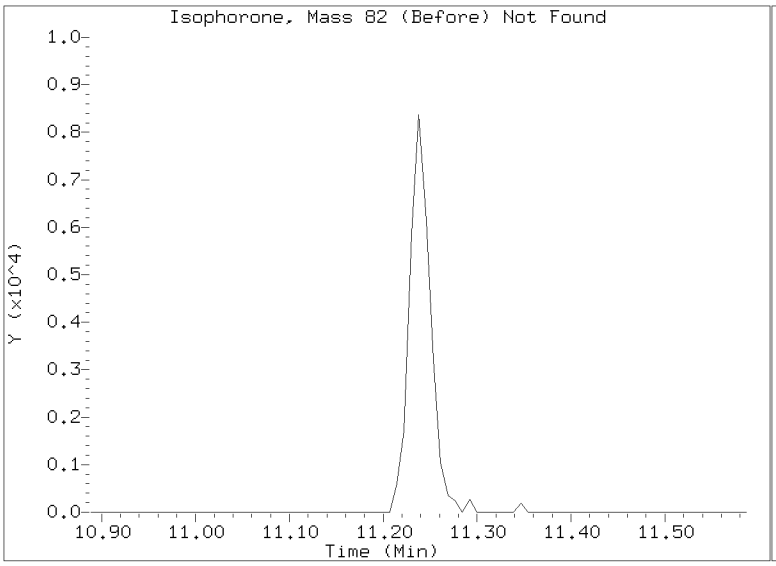


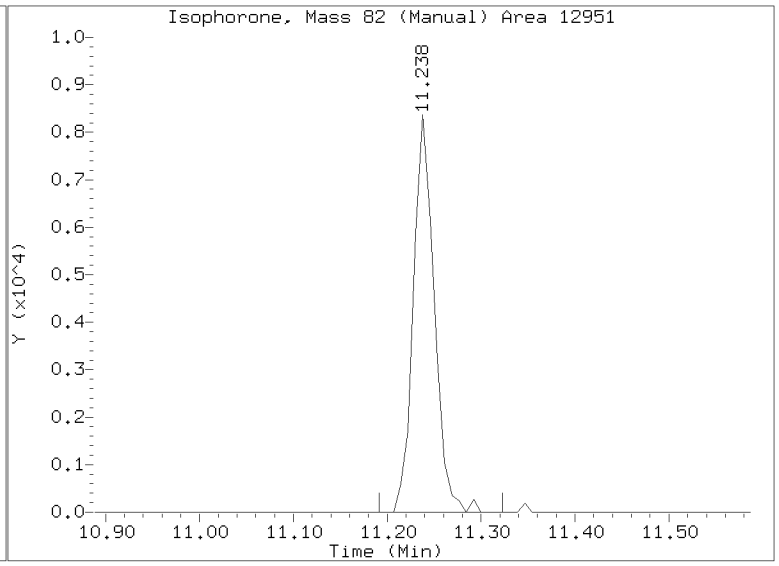


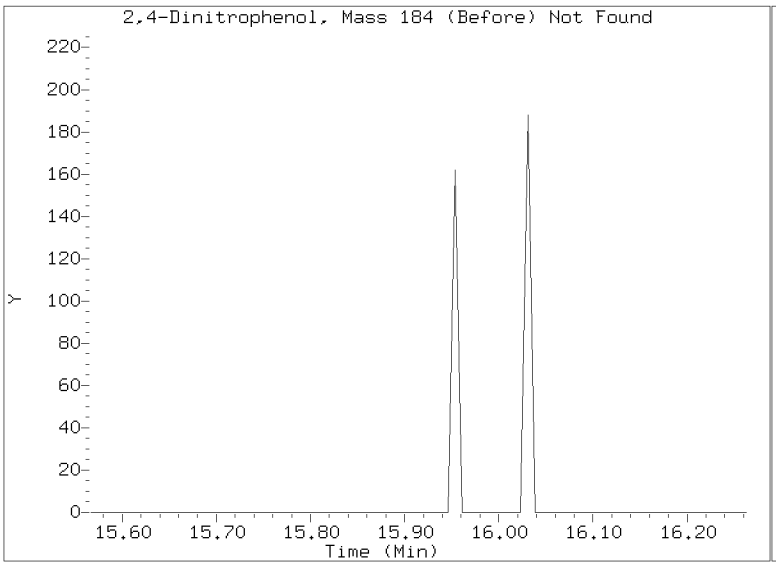


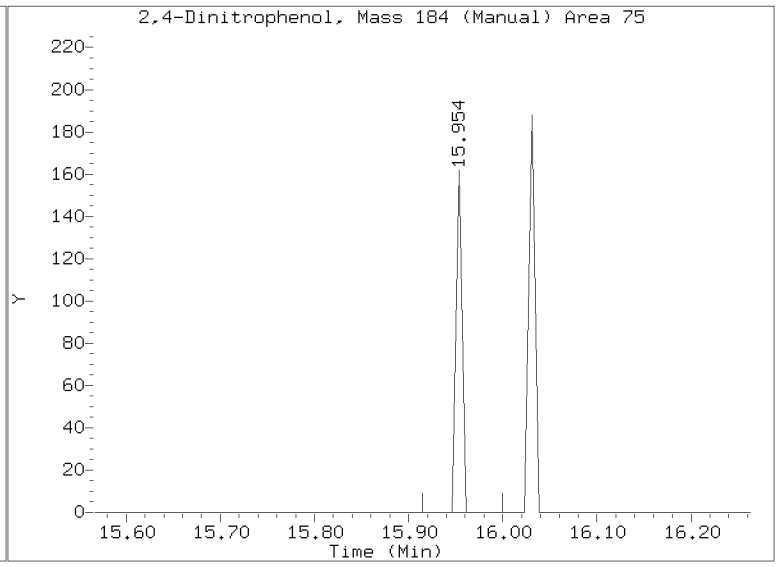
Quant Ion Manual Peak Adjustment Report

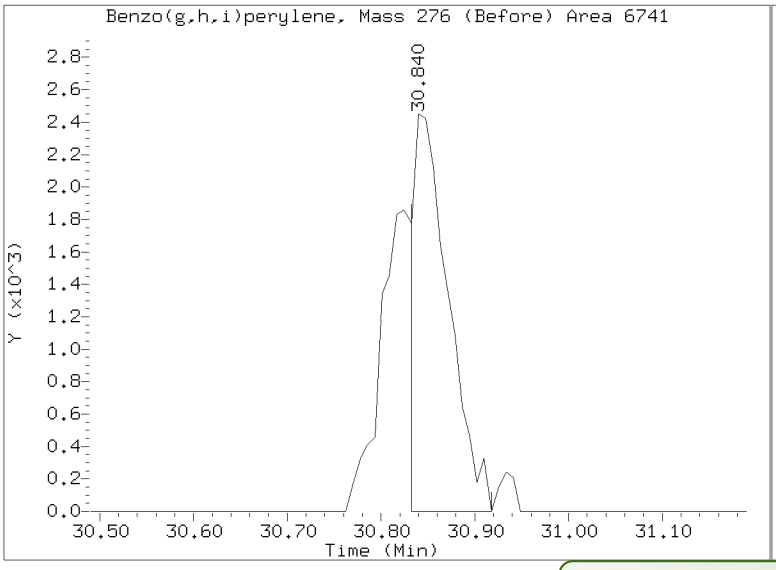
Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010409.D
Injection Date: 04-JAN-2023 14:24
Lab ID:SLA0012-CAL2 Client ID:
Report Date: 01/05/2023 11:53

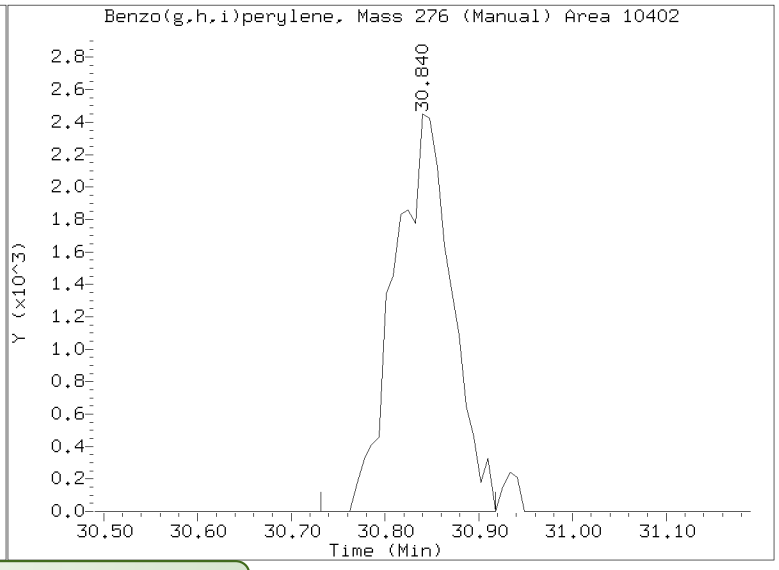












APPROVED
By Deenay Dunmore at 11:57 am, Jan 05, 2023

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010410.D

Page 1

Date : 04-JAN-2023 15:03

Client ID:

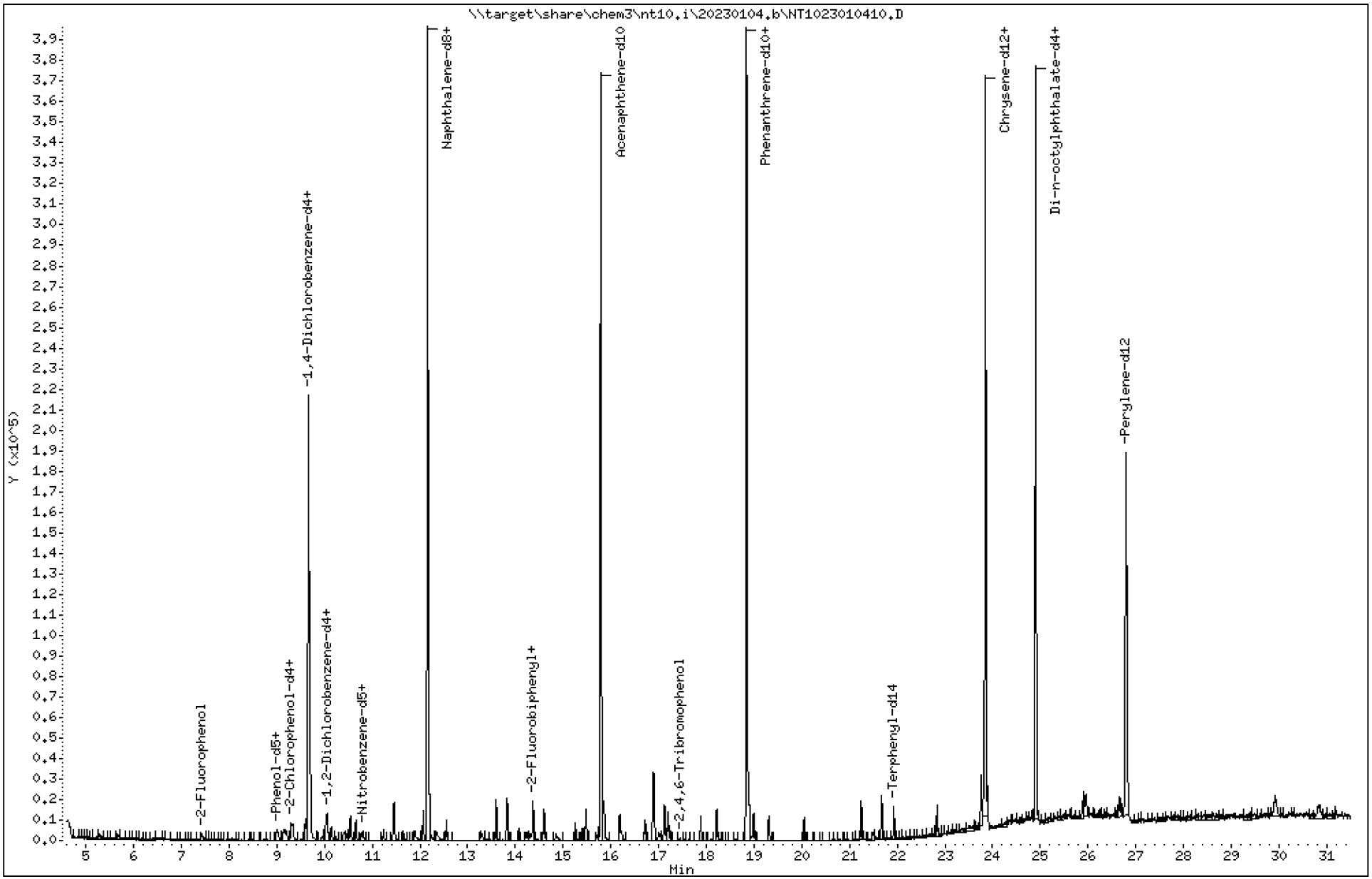
Instrument: nt10.i

Sample Info: SLA0012-CAL1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1818 of 5449

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010410.D
Lab Smp Id: SLA0012-CAL1
Inj Date : 04-JAN-2023 15:03
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-CAL1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 9 Calibration Sample, Level: 1
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.421	7.413	(0.767)	4213	0.30000	0.1515
$	2 Phenol-d5	99	8.989	8.989	(0.930)	7680	0.30000	0.2164(M)
	3 Phenol	94	9.020	9.012	(0.933)	4600	0.20000	0.1314
$	5 2-Chlorophenol-d4	132	9.306	9.298	(0.962)	8619	0.30000	0.2513
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.950)	7704	0.20000	0.2356
	6 2-Chlorophenol	128	9.337	9.329	(0.966)	5856	0.20000	0.1611
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	8059	0.20000	0.2112
*	8 1,4-Dichlorobenzene-d4	152	9.669	9.670	(1.000)	99684	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.003)	7181	0.20000	0.2188
$	10 1,2-Dichlorobenzene-d4	152	10.026	10.034	(1.037)	4345	0.20000	0.2034
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.040)	7679	0.20000	0.2306
	11 Benzyl alcohol	108	9.941	9.925	(1.028)	778	0.20000	0.05226
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.057)	2183	0.20000	0.2226(M)
	13 2-Methylphenol	108	10.143	10.135	(1.049)	3632	0.20000	0.1427
	17 Hexachloroethane	117	10.663	10.663	(1.103)	3110	0.20000	0.2159
	16 N-Nitroso-di-n-propylamine	70	10.484	10.477	(1.084)	2358	0.20000	0.1758(M)
	15 4-Methylphenol	108	10.415	10.391	(1.077)	3512	0.20000	0.1906
$	18 Nitrobenzene-d5	82	10.764	10.764	(0.885)	3848	0.20000	0.1536(M)
	19 Nitrobenzene	77	10.803	10.795	(0.888)	3833	0.20000	0.1637
	20 Isophorone	82	11.237	11.237	(0.924)	4677	0.20000	0.1355(M)
	21 2-Nitrophenol	139	11.433	11.425	(0.940)	1944	0.20000	0.09885
	22 2,4-Dimethylphenol	107	11.459	11.450	(0.942)	8718	0.40000	0.2916
	23 Bis(2-Chloroethoxy)methane	93	11.645	11.654	(0.958)	4472	0.20000	0.1727
	24 Benzoic acid	105	11.459	11.450	(0.942)	229	0.80000	0.02796
	25 2,4-Dichlorophenol	162	11.892	11.883	(0.978)	4374	0.40000	0.1926
	26 1,2,4-Trichlorobenzene	180	12.077	12.069	(0.993)	5006	0.20000	0.2010
*	27 Naphthalene-d8	136	12.162	12.162	(1.000)	387081	4.00000	
	28 Naphthalene	128	12.200	12.208	(1.003)	17008	0.20000	0.1998
	29 4-Chloroaniline	127	12.339	12.316	(1.015)	7215	0.40000	0.2034
	30 Hexachlorobutadiene	225	12.563	12.556	(1.033)	1831	0.20000	0.1979
	31 4-Chloro-3-methylphenol	107	13.283	13.260	(1.092)	3952	0.40000	0.1629
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	12474	0.20000	0.1853
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	1435	0.40000	0.1715

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	14.227	14.212	(0.901)	2095	0.40000	0.1581
35	2,4,5-Trichlorophenol	196	14.305	14.289	(0.906)	1577	0.40000	0.1109
$ 36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	12548	0.20000	0.2071
37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	10499	0.20000	0.1940
38	2-Nitroaniline	65	14.862	14.846	(0.941)	980	0.40000	0.1346
39	Dimethylphthalate	163	15.257	15.257	(0.966)	8631	0.20000	0.1750
40	Acenaphthylene	152	15.473	15.473	(0.980)	15072	0.20000	0.1938
41	2,6-Dinitrotoluene	165	15.411	15.404	(0.976)	2609	0.40000	0.2329
* 42	Acenaphthene-d10	164	15.791	15.791	(1.000)	163545	4.00000	
43	3-Nitroaniline	138	15.737	15.690	(0.997)	3569	0.40000	0.3586(M)
44	Acenaphthene	153	15.852	15.860	(1.004)	8399	0.20000	0.1946
45	2,4-Dinitrophenol	184	Compound Not Detected.					
46	Dibenzofuran	168	16.185	16.185	(1.025)	13245	0.20000	0.2020
47	4-Nitrophenol	109	Compound Not Detected.					
48	2,4-Dinitrotoluene	165	16.231	16.224	(1.028)	2848	0.40000	0.1895(M)
50	Diethylphthalate	149	16.718	16.718	(1.059)	9629	0.20000	0.1851
49	Fluorene	166	16.896	16.896	(1.070)	20081	0.20000	0.2086
51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	6445	0.20000	0.2084
52	4-Nitroaniline	138	17.004	16.973	(1.077)	2934	0.40000	0.1479
53	4,6-Dinitro-2-methylphenol	198	17.097	17.066	(0.907)	271	0.80000	0.02479
54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	10978	0.20000	0.2032
$ 55	2,4,6-Tribromophenol	330	17.451	17.436	(1.105)	222	0.30000	0.07887
56	4-Bromophenyl-phenylether	248	17.883	17.883	(0.949)	2473	0.20000	0.1739
57	Hexachlorobenzene	284	18.223	18.215	(0.967)	2779	0.20000	0.2285
58	Pentachlorophenol	266	Compound Not Detected.					
* 59	Phenanthrene-d10	188	18.842	18.842	(1.000)	291822	4.00000	
60	Phenanthrene	178	18.896	18.888	(1.003)	14347	0.20000	0.2026
61	Anthracene	178	18.989	18.981	(1.008)	11802	0.20000	0.1708
62	Carbazole	167	19.306	19.299	(1.025)	12225	0.20000	0.1641
63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	13943	0.20000	0.1399
64	Fluoranthene	202	21.248	21.240	(0.891)	13564	0.20000	0.1715
65	Pyrene	202	21.674	21.666	(0.909)	14908	0.20000	0.1816
$ 66	Terphenyl-d14	244	21.929	21.929	(0.919)	8067	0.20000	0.1844
67	Butylbenzylphthalate	149	22.835	22.827	(0.957)	6712	0.20000	0.1573
68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	11613	0.20000	0.2087
* 69	Chrysene-d12	240	23.849	23.850	(1.000)	180506	4.00000	
70	3,3'-Dichlorobenzidine	252	23.764	23.757	(0.996)	9541	0.60000	0.4726
71	Chrysene	228	23.896	23.896	(1.002)	9131	0.20000	0.2044
72	bis(2-Ethylhexyl)phthalate	149	23.849	23.842	(0.958)	9015	0.20000	0.1639
* 134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	358121	4.00000	
73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	18586	0.20000	0.2244
74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	8235	0.20000	0.2079
75	Benzo(k)fluoranthene	252	25.947	25.955	(0.968)	7652	0.20000	0.1983
76	Benzo(a)pyrene	252	26.660	26.660	(0.995)	8043	0.20000	0.2130
* 77	Perylene-d12	264	26.799	26.791	(1.000)	109952	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	5304	0.20000	0.1787(M)
79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	3856	0.20000	0.1653(M)
80	Benzo(g,h,i)perylene	276	30.840	30.840	(1.151)	5029	0.20000	0.2053(M)
90	N-Nitrosodimethylamine	74	5.282	5.266	(0.546)	4134	0.40000	0.2644(M)
91	Aniline	93	9.144	9.113	(0.946)	6744	0.40000	0.1947
93	Benzidine	184	21.488	21.457	(0.901)	5144	0.40000	0.1420
103	Pyridine	79	Compound Not Detected.					
105	1-methylnaphthalene	142	13.825	13.825	(1.137)	11966	0.20000	0.1819
111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.205	(1.090)	11714	0.20000	0.1816

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.909	25.901	(0.967)	15191	0.40000	0.4051
120 2,3,4,6-Tetrachlorophenol	232	Compound Not Detected.					

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010410.D
Lab Smp Id: SLA0012-CAL1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	76684	38342	153368	99684	29.99
27 Naphthalene-d8	296095	148048	592190	387081	30.73
42 Acenaphthene-d10	136492	68246	272984	163545	19.82
59 Phenanthrene-d10	239937	119969	479874	291822	21.62
69 Chrysene-d12	151837	75919	303674	180506	18.88
134 Di-n-octylphthala	363176	181588	726352	358121	-1.39
77 Perylene-d12	98696	49348	197392	109952	11.40

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.67	-0.00
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010410.D

Lab ID: SLA0012-CAL1
nt10.i, ABN.m, 04-JAN-2023 15:03

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

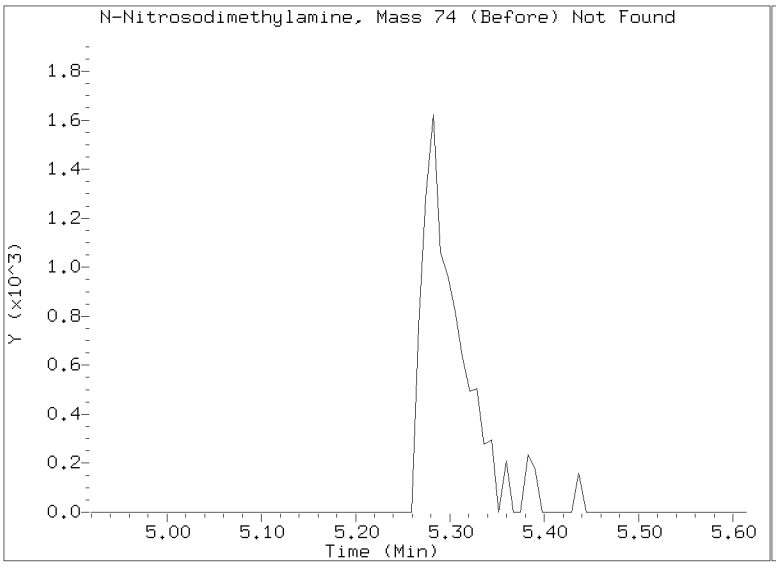
RRT check based on Ccal File: NT1023010414.D

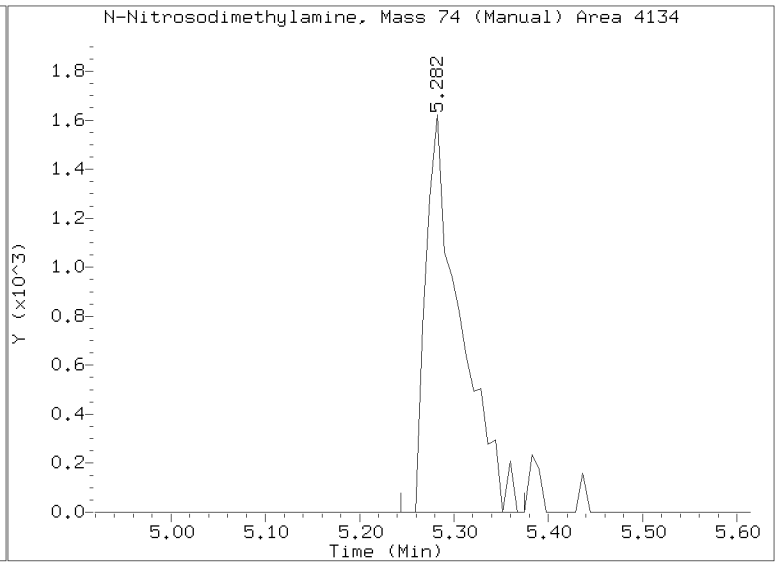
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

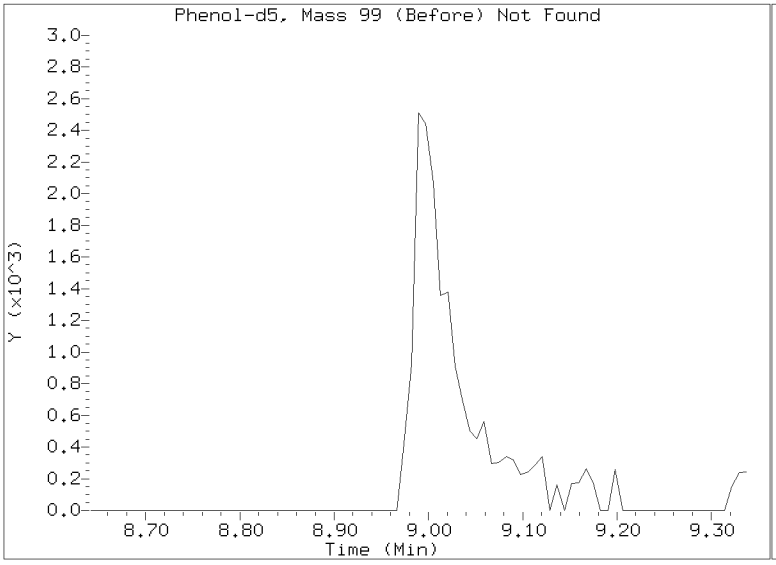
* Only compounds listed in the work order have been verified by the analyst *

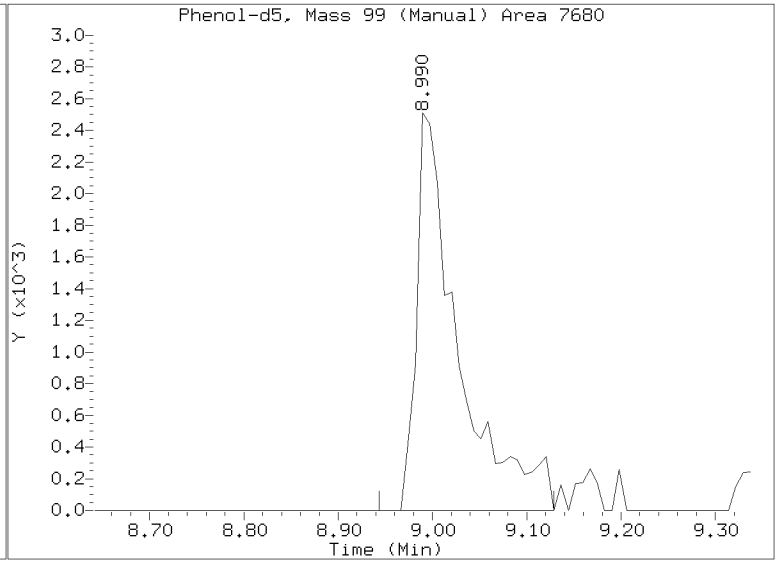
Quant Ion Manual Peak Adjustment Report

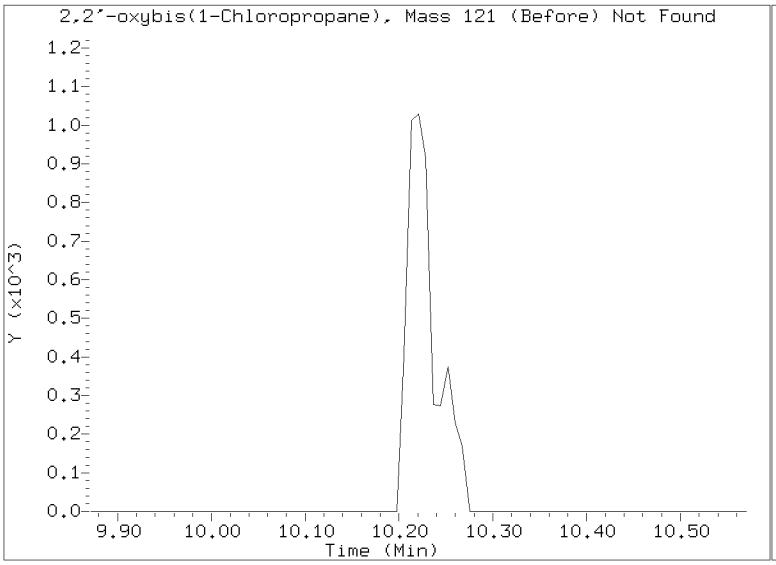
Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010410.D
Injection Date: 04-JAN-2023 15:03
Lab ID:SLA0012-CAL1 Client ID:
Report Date: 01/05/2023 11:53

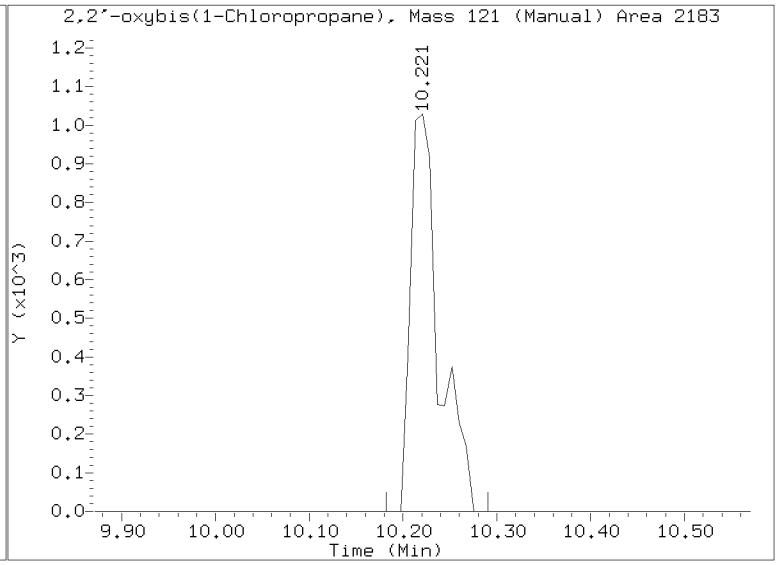






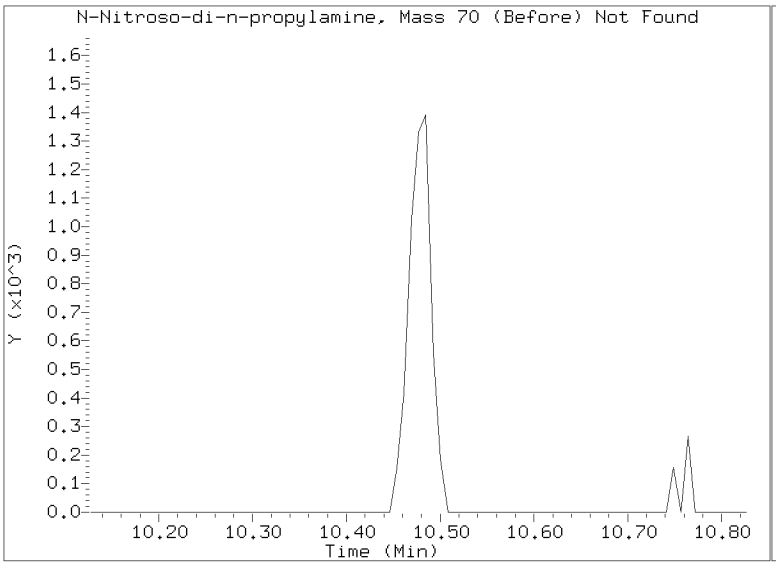


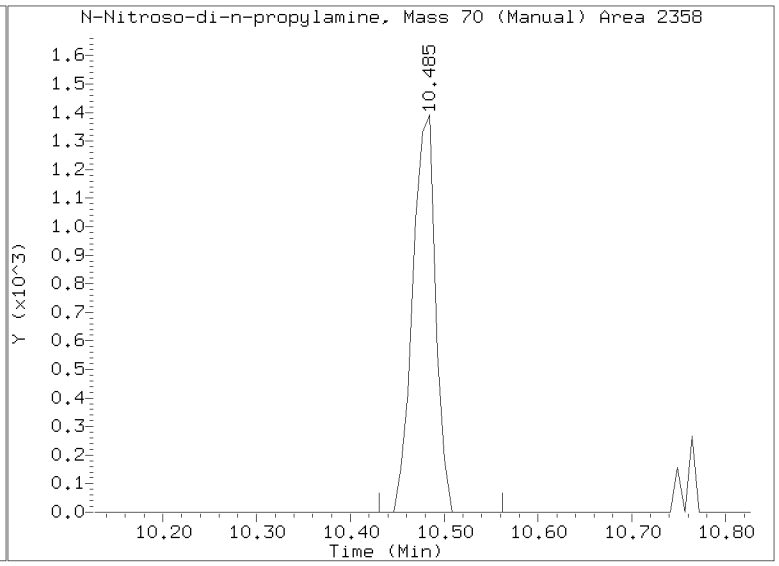


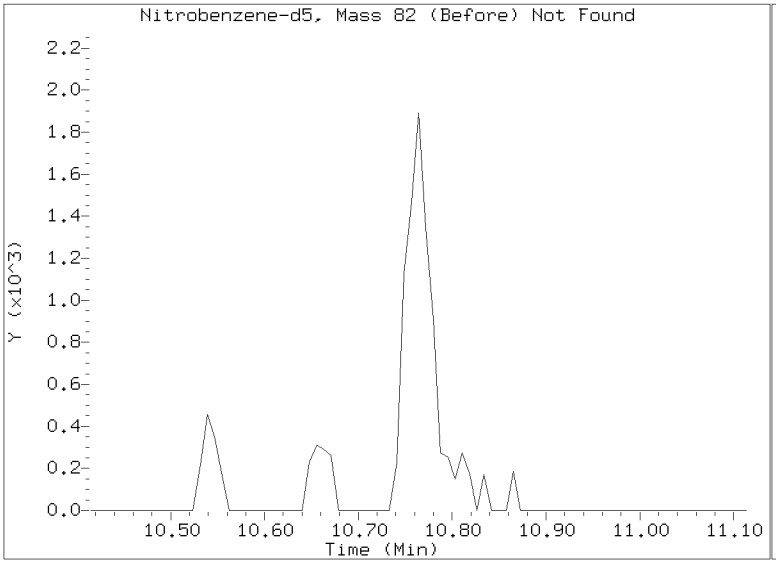


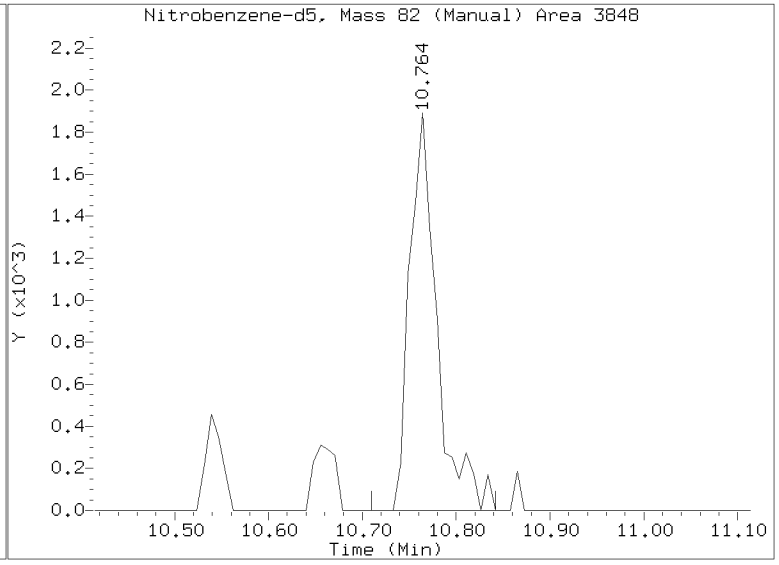
Quant Ion Manual Peak Adjustment Report

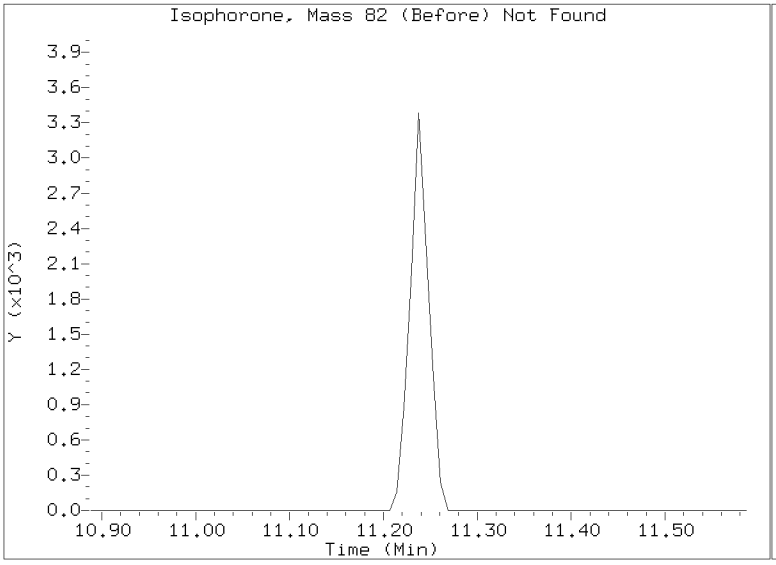
Datafile: //target/share/chem3/nt10.i/20230104.b/NT1023010410.D
Injection Date: 04-JAN-2023 15:03
Lab ID:SLA0012-CAL1 Client ID:
Report Date: 01/05/2023 11:53

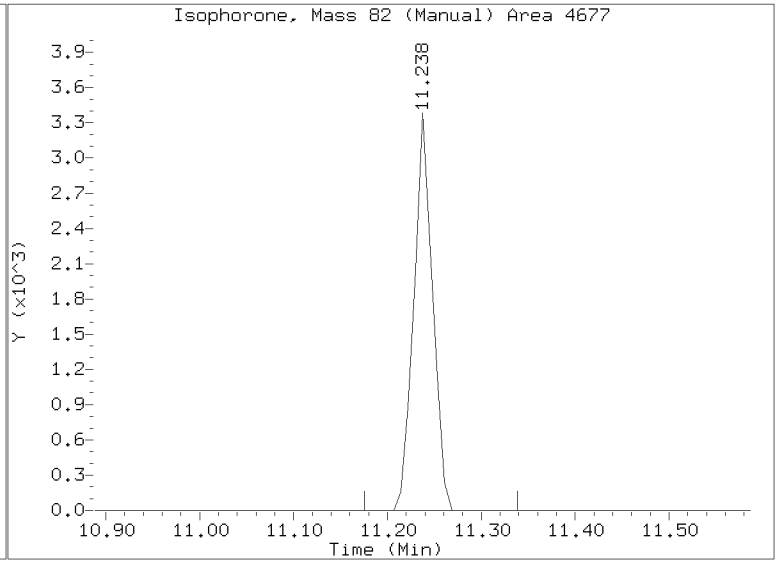












Quant Ion Manual Peak Adjustment Report

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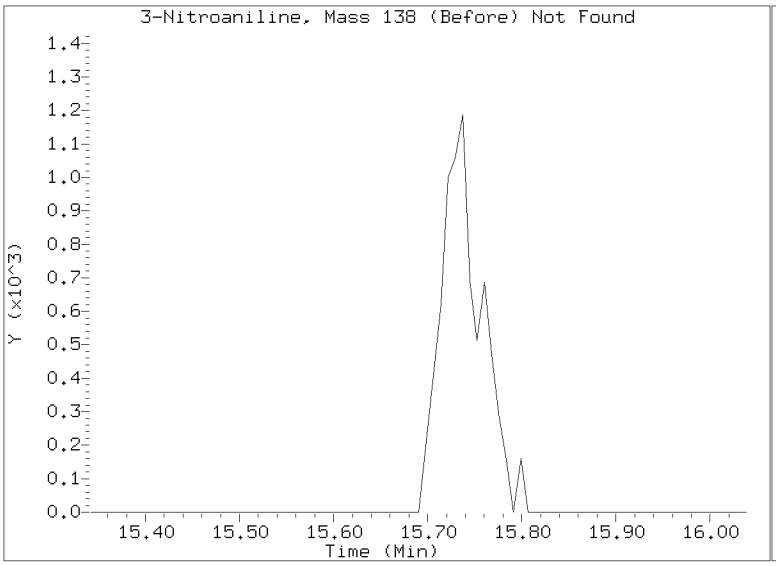
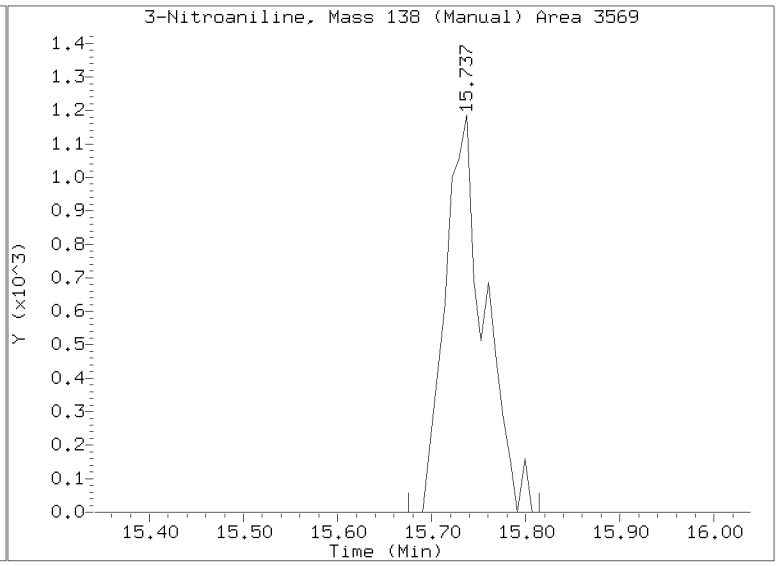
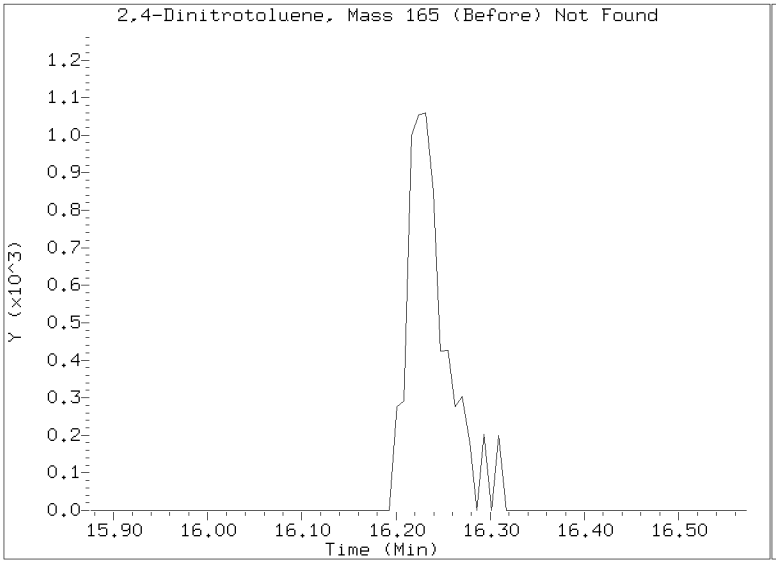
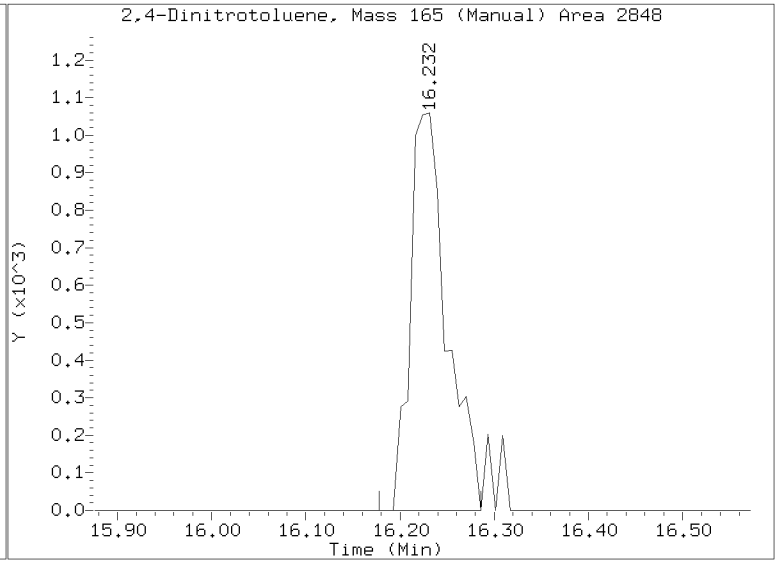
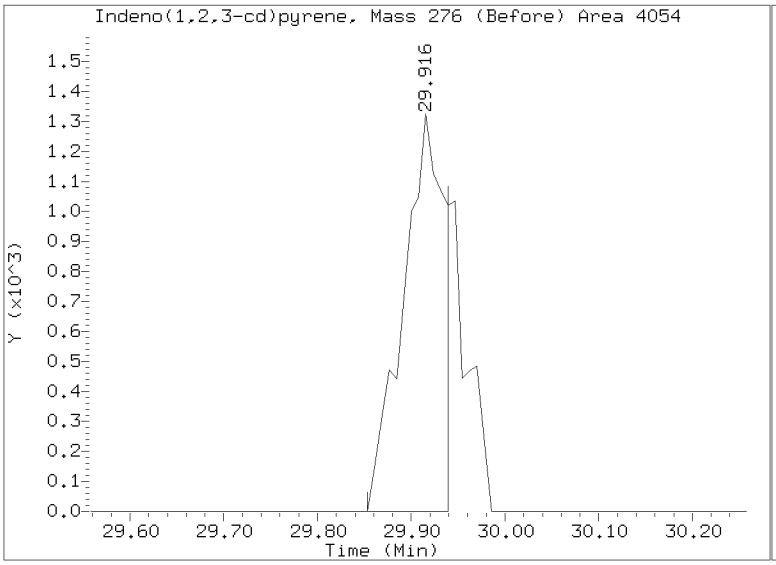
Lab ID:SLA0012-CAL1 Client ID:
Report Date: 01/05/2023 11:53

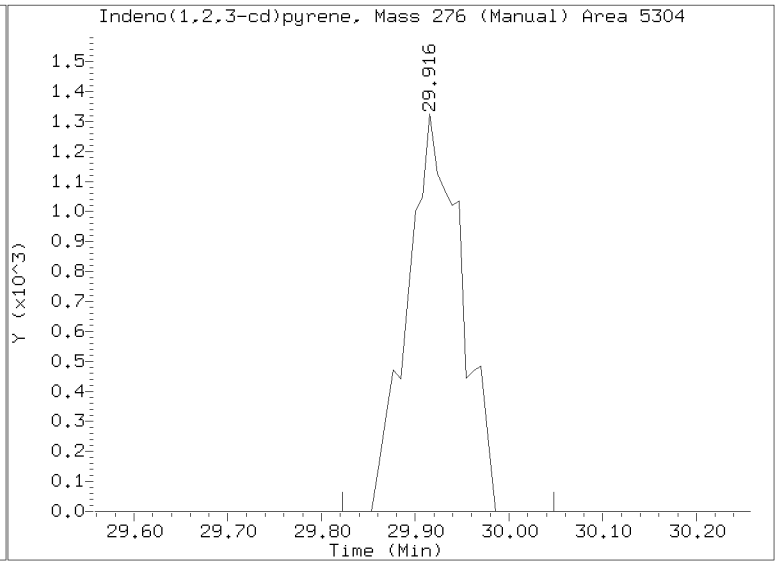












Quant Ion Manual Peak Adjustment Report

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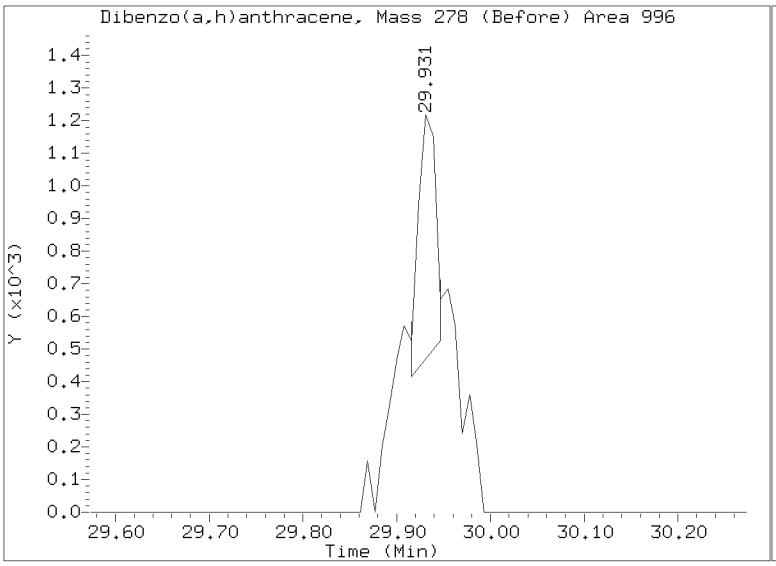
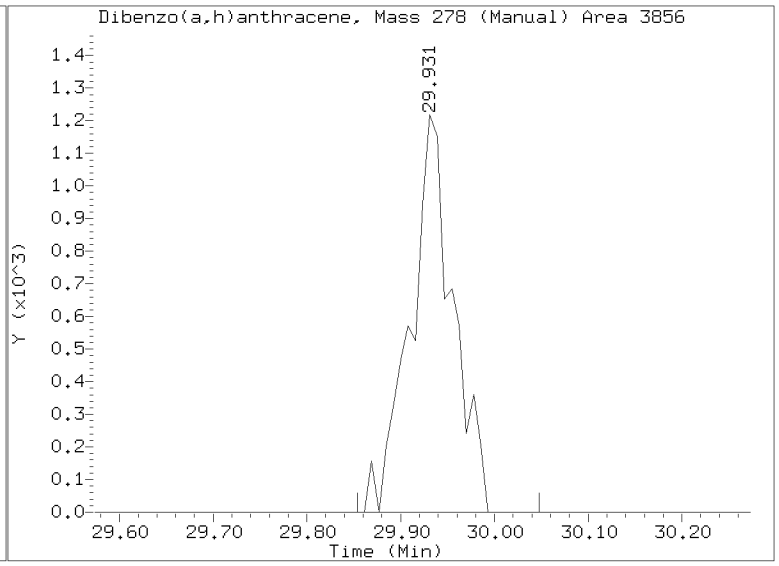
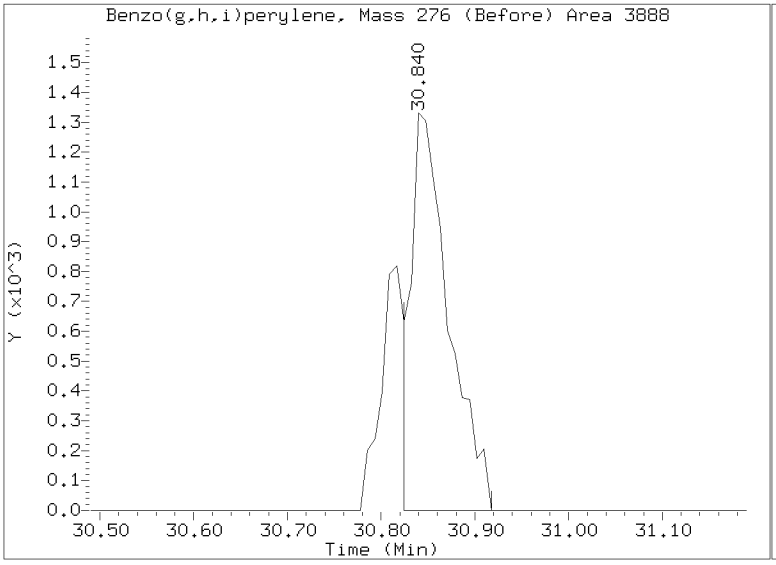
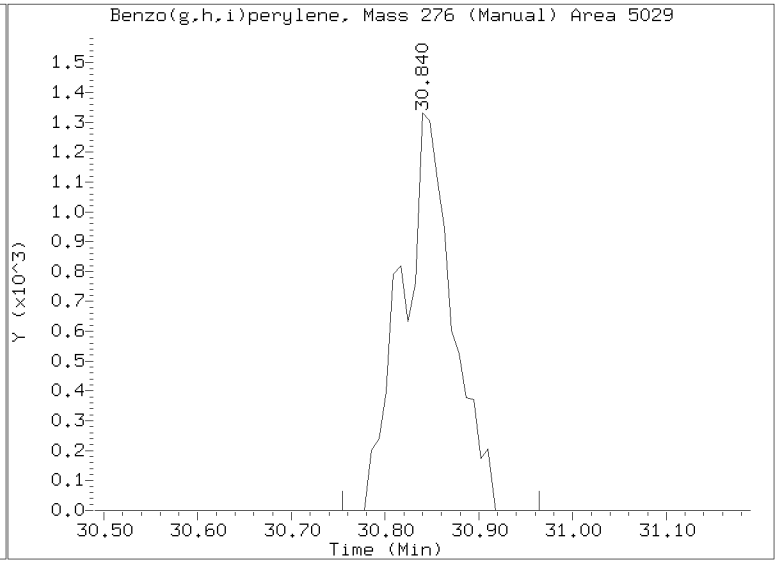
Lab ID:SLA0012-CAL1 Client ID:
Report Date: 01/05/2023 11:53









APPROVED

By Deenay Dunmore at 11:58 am, Jan 05, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00013
Laboratory ID: SLA0012-SCV1
Sequence: SLA0012
Sequence Name: SCV 5.0
Standard ID: K010066

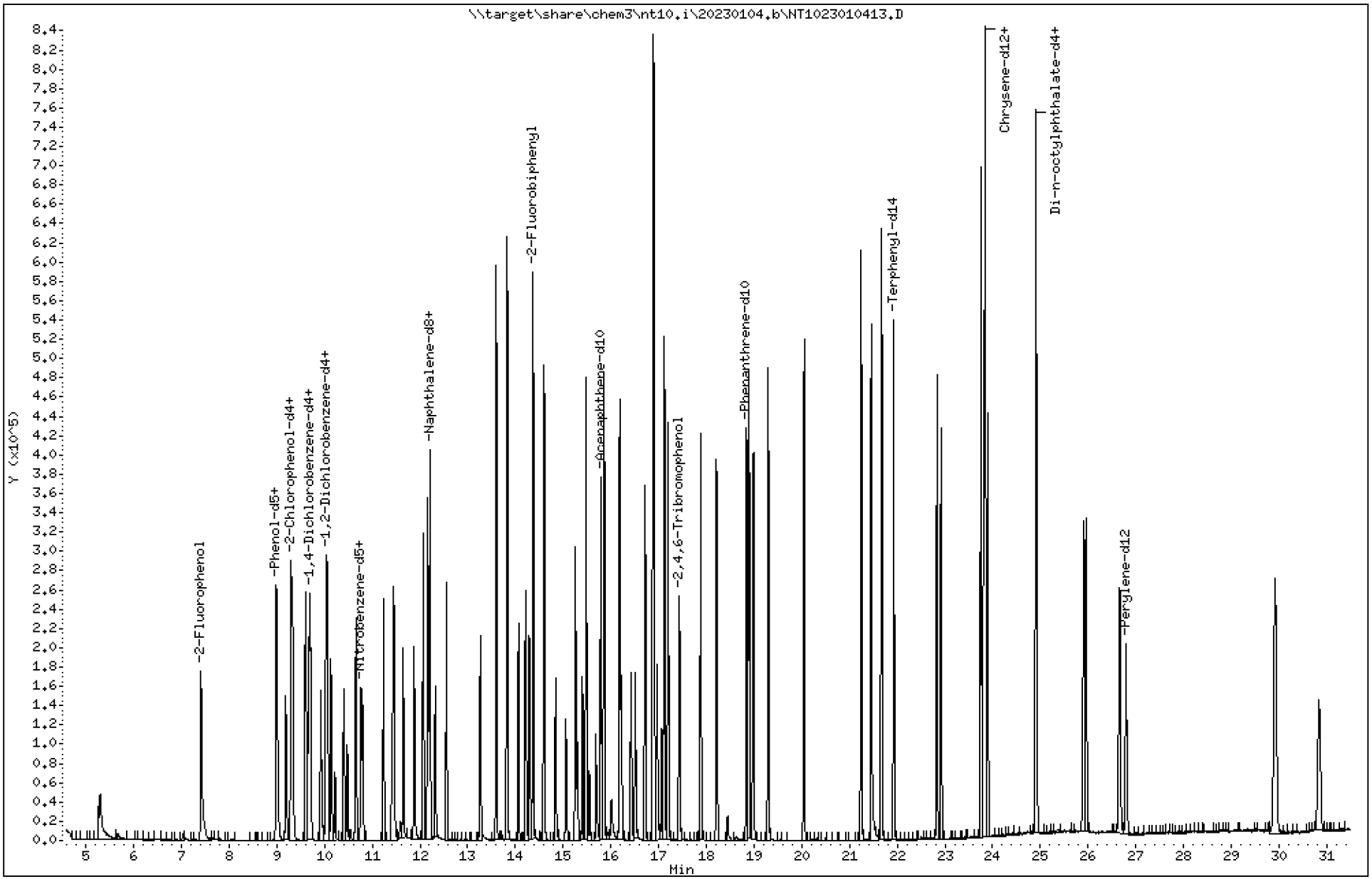
ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Butylbenzylphthalate	5.0000	5.3	5.9	20.00
p-Terphenyl-d14	5.0000	4.88	-2.5	20.00

* Indicates values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D
Date : 04-JAN-2023 16:58
Client ID:
Sample Info: SLA0012-SCV1

Instrument: nt10.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

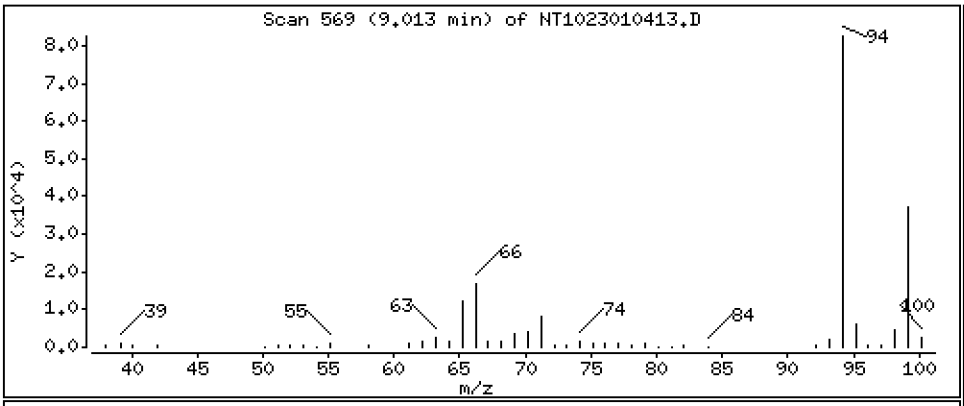
Operator: VTS

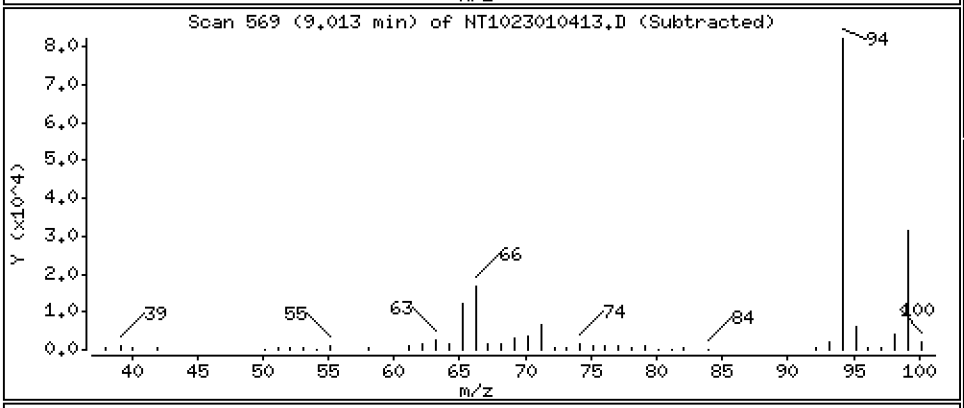
Column phase: ZB-5msi

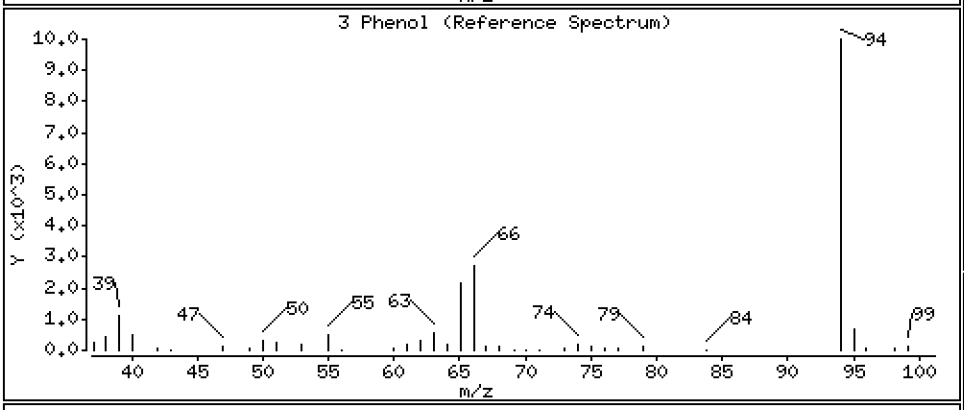
Column diameter: 0.25

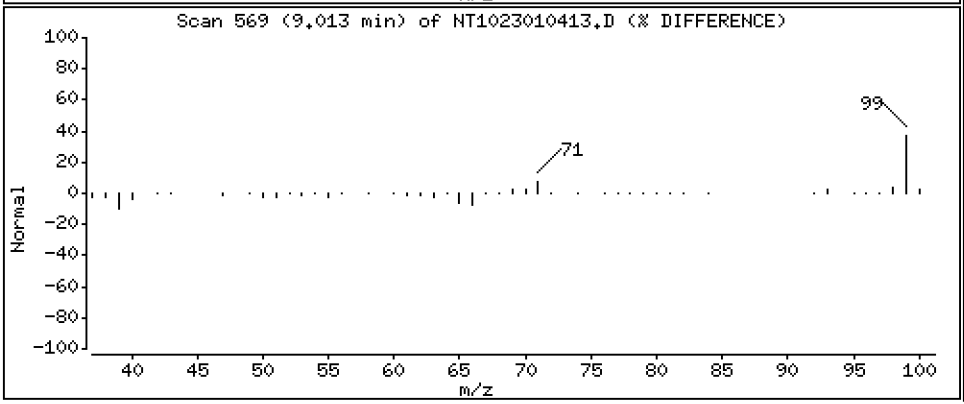
3 Phenol

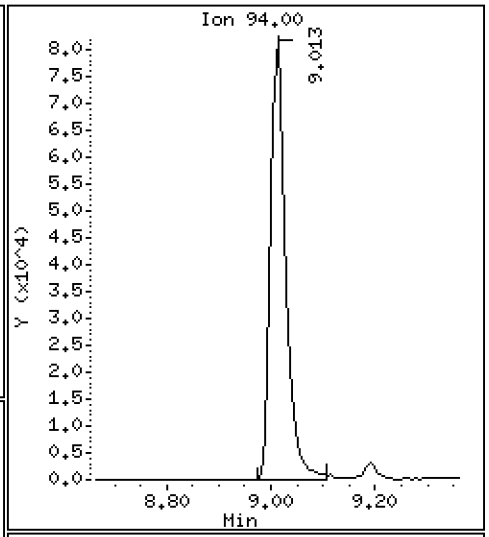
Concentration: 4.719 ug/mL

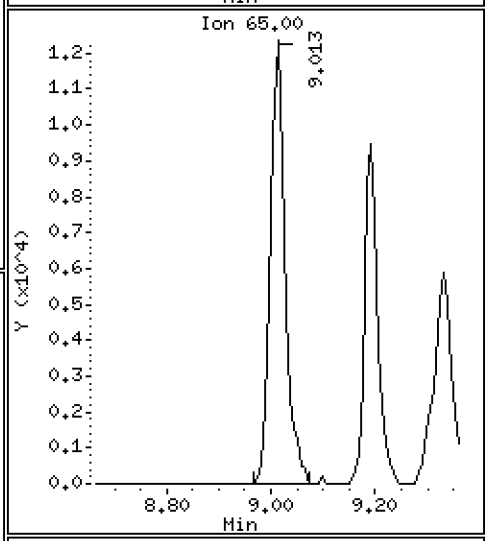


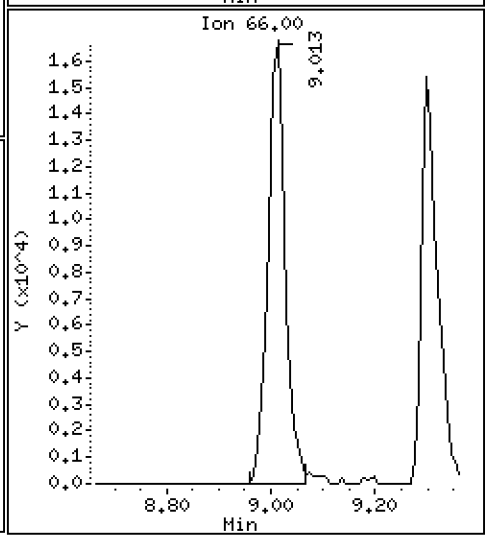












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

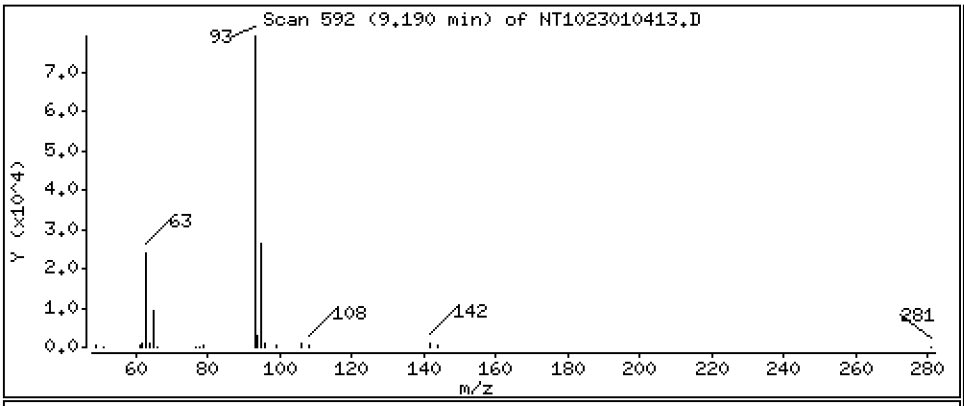
Operator: VTS

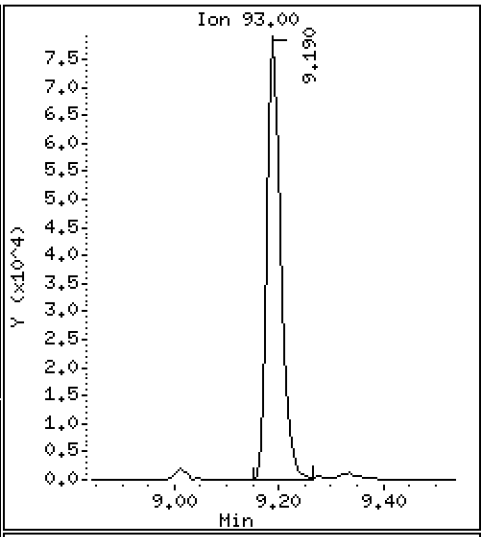
Column phase: ZB-5msi

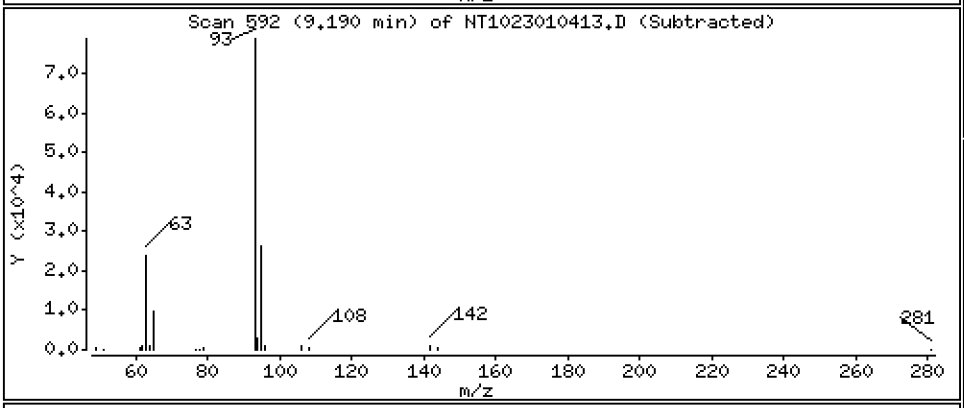
Column diameter: 0.25

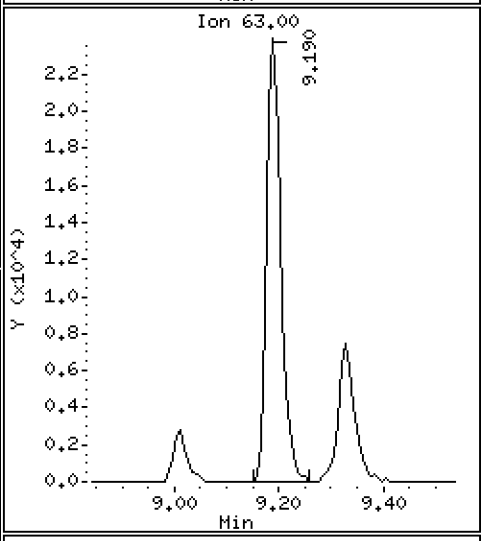
4 Bis(2-Chloroethyl)ether

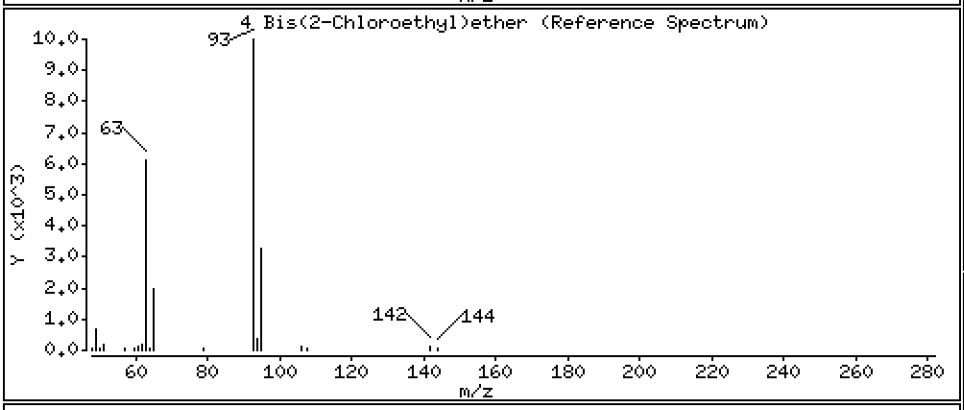
Concentration: 4.781 ug/mL

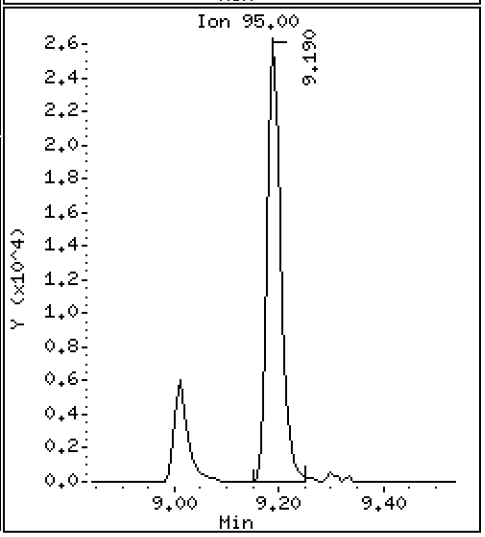


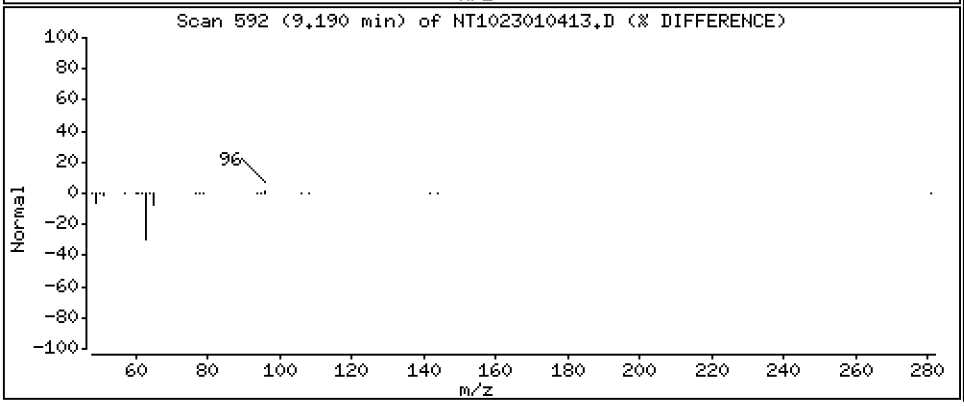












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

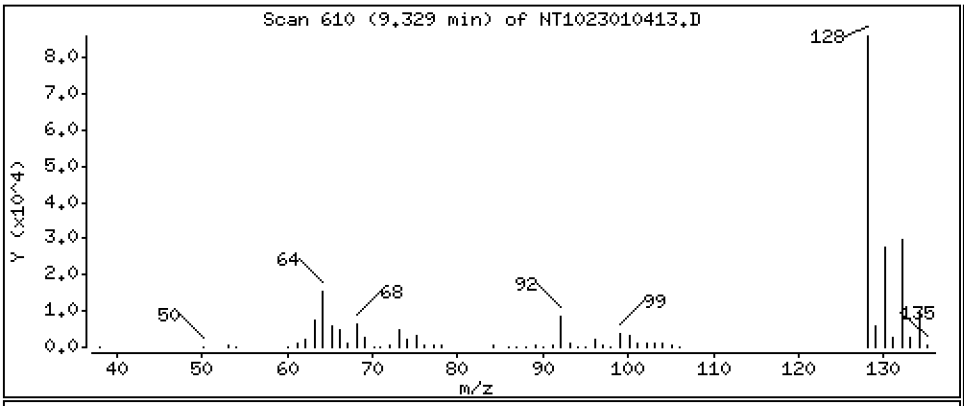
Operator: VTS

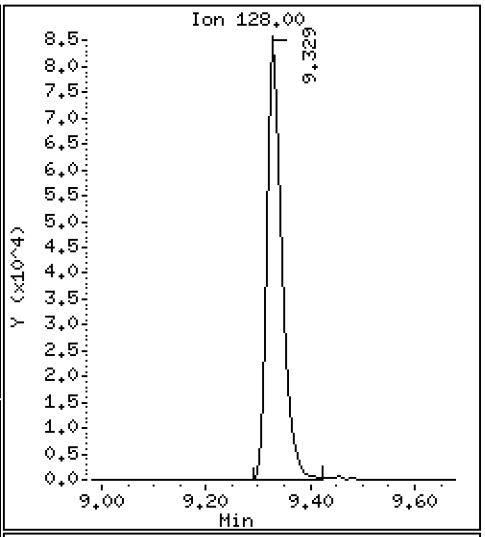
Column phase: ZB-5msi

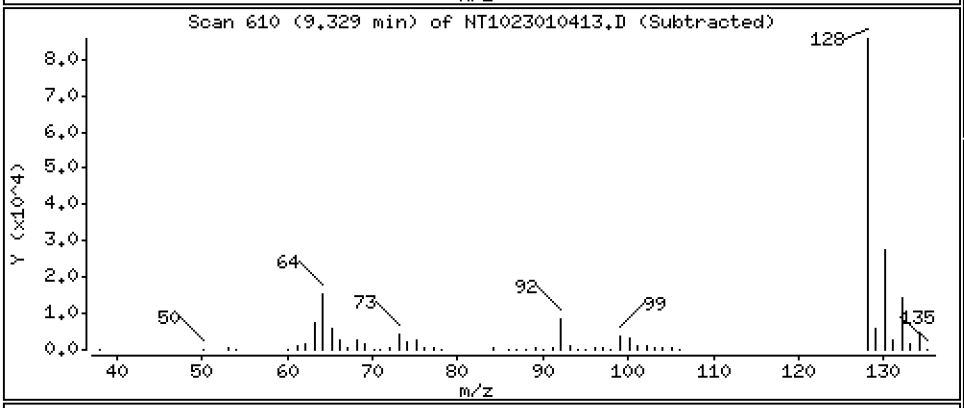
Column diameter: 0.25

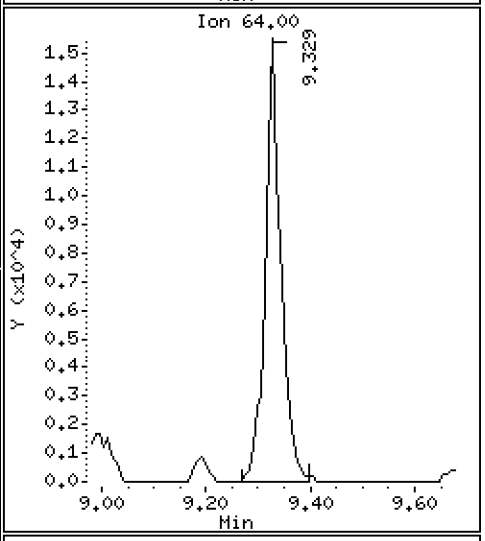
6 2-Chlorophenol

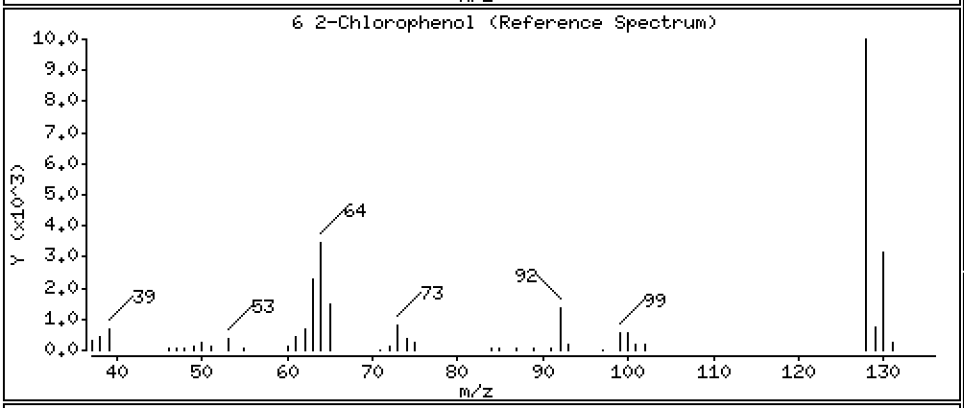
Concentration: 5.153 ug/mL

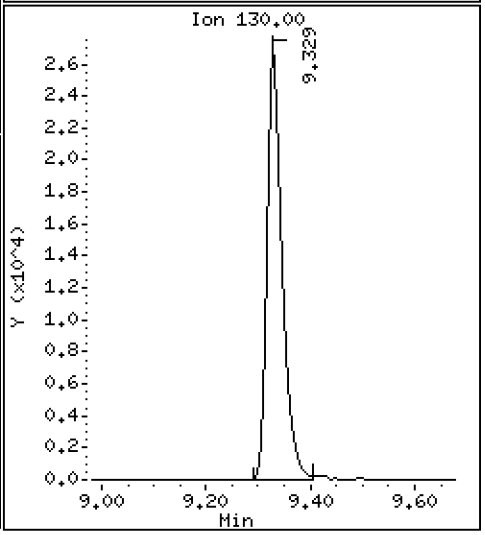


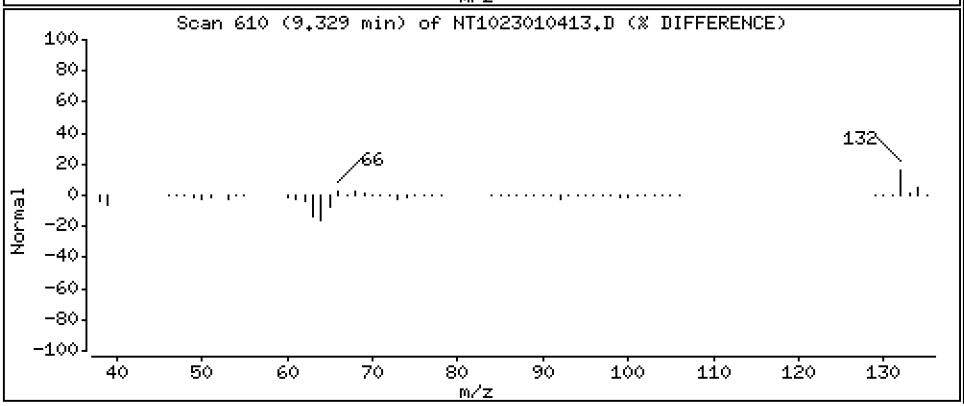












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

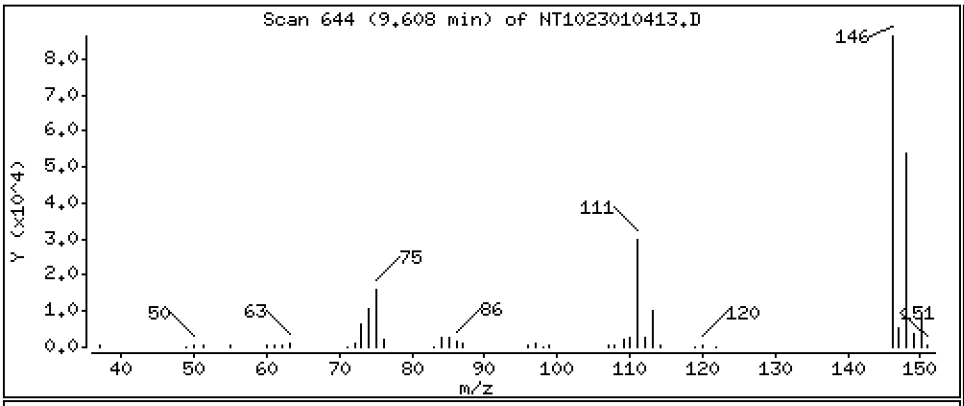
Operator: VTS

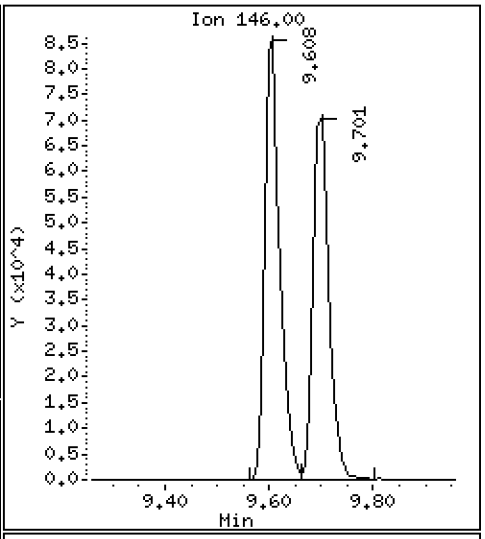
Column phase: ZB-5msi

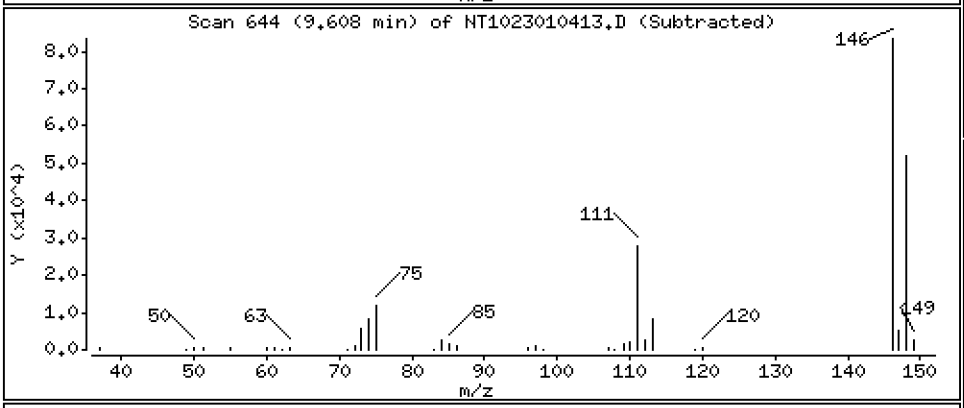
Column diameter: 0.25

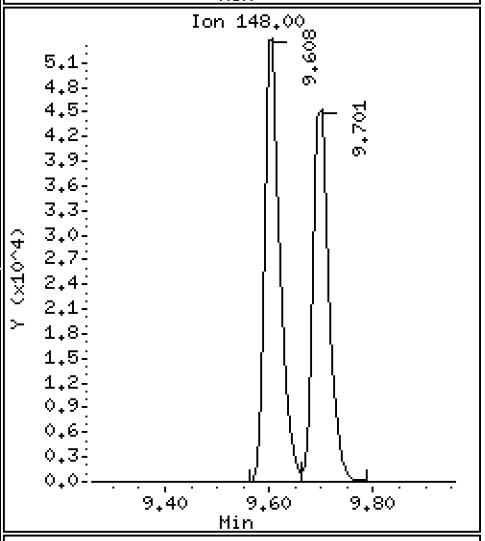
7 1,3-Dichlorobenzene

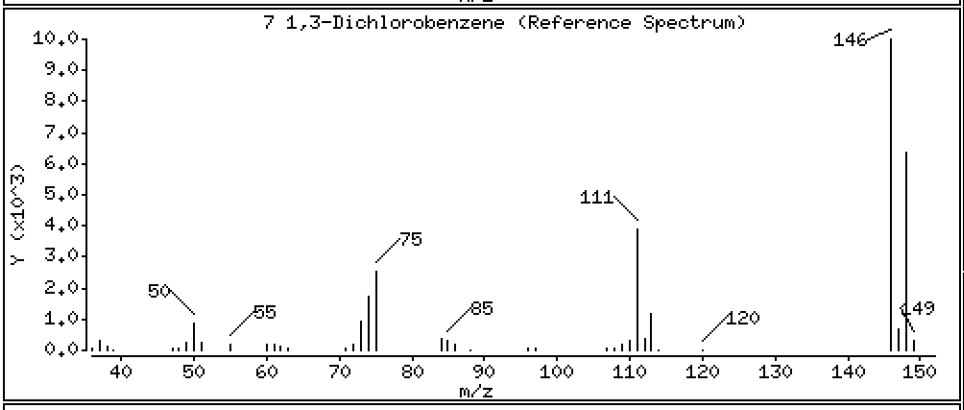
Concentration: 5.030 ug/mL

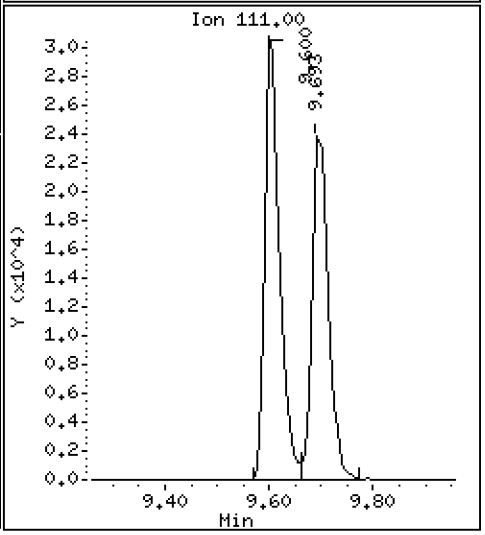


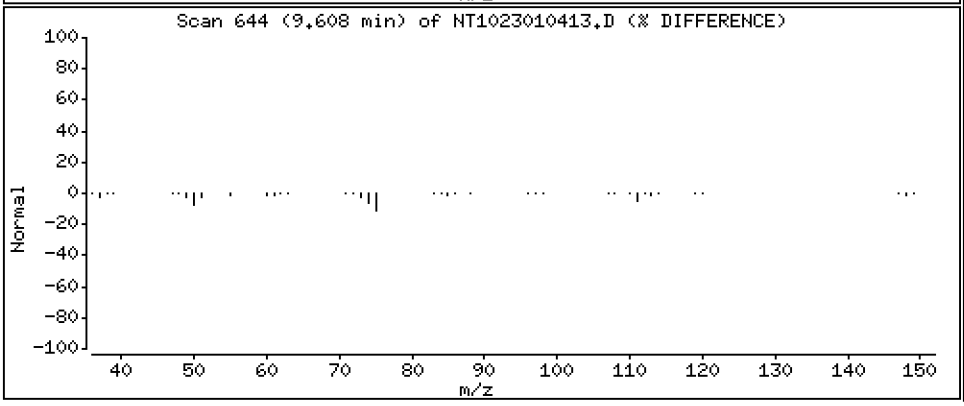












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

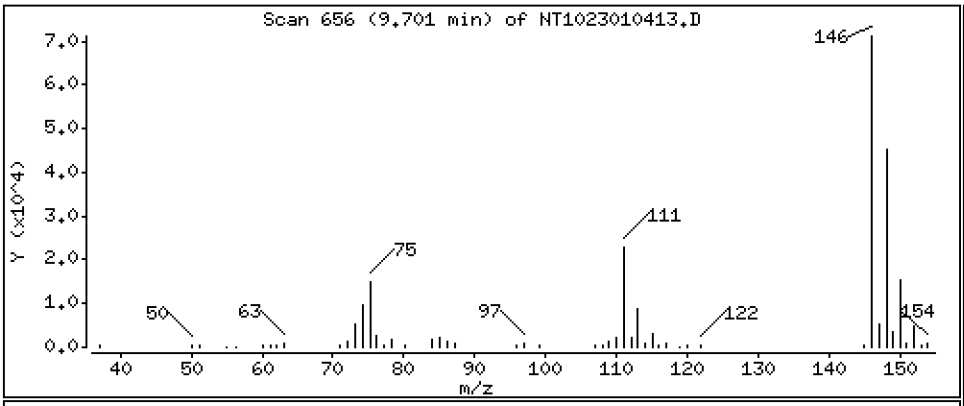
Operator: VTS

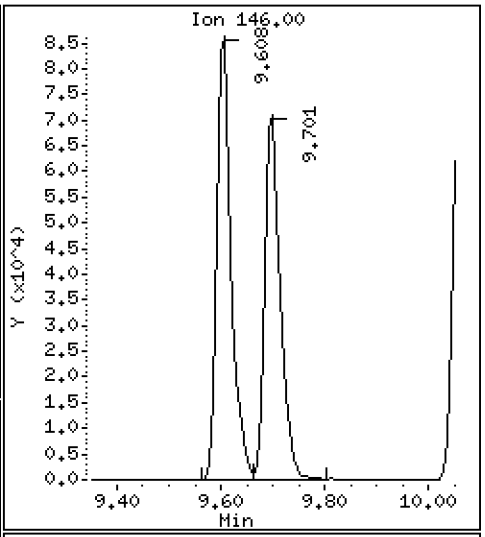
Column phase: ZB-5msi

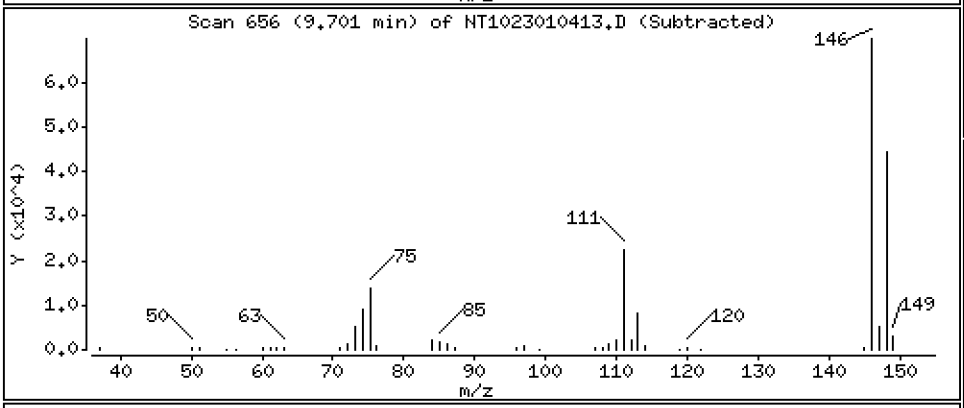
Column diameter: 0.25

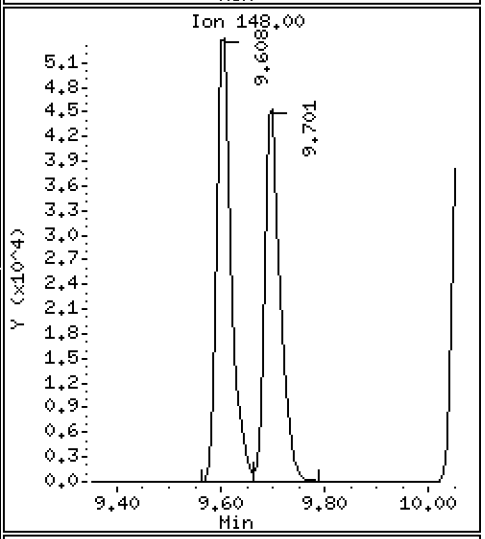
9 1,4-Dichlorobenzene

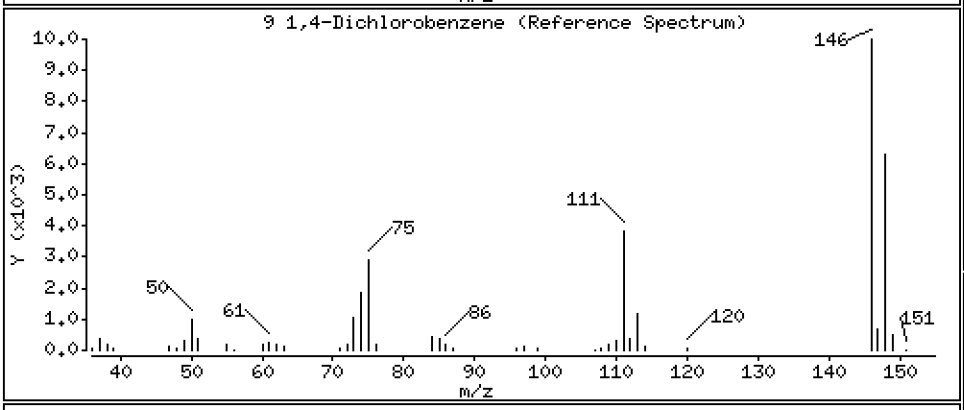
Concentration: 4.966 ug/mL

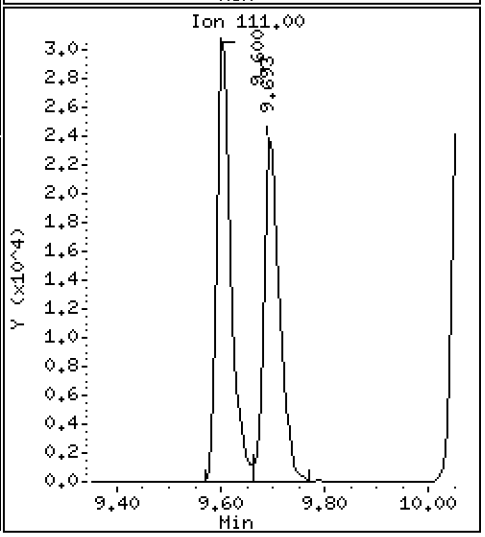


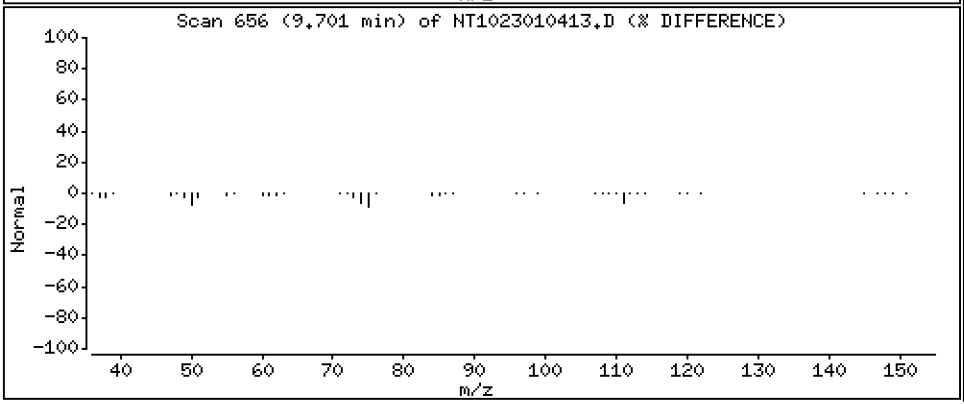












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

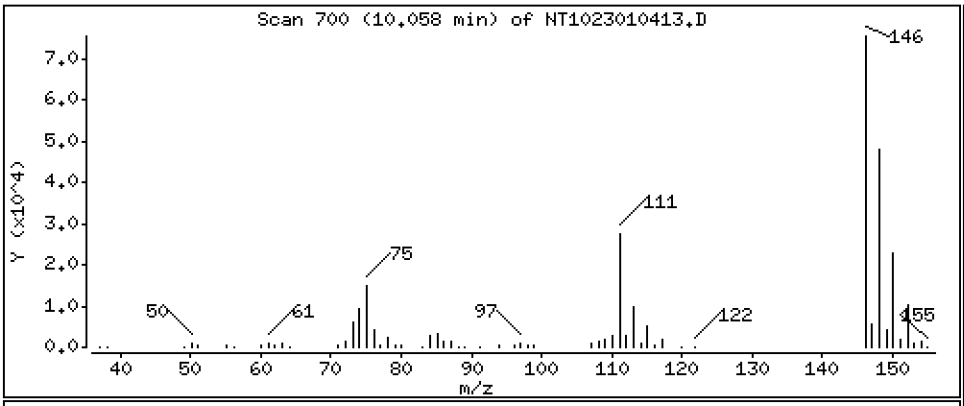
Operator: VTS

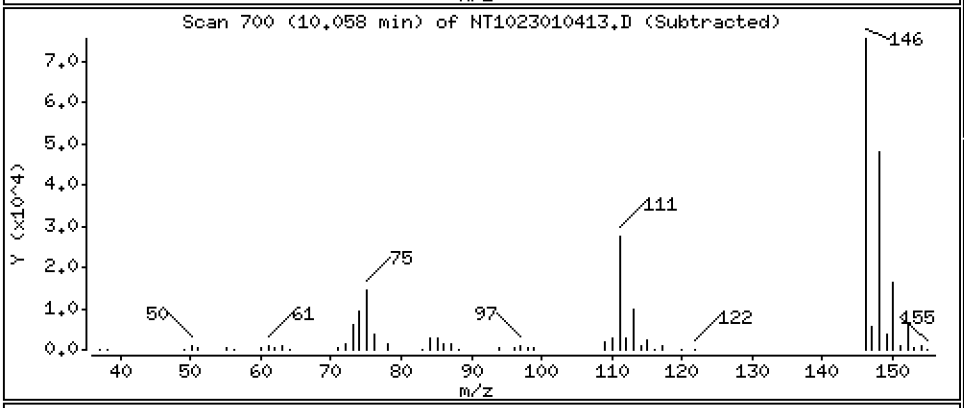
Column phase: ZB-5msi

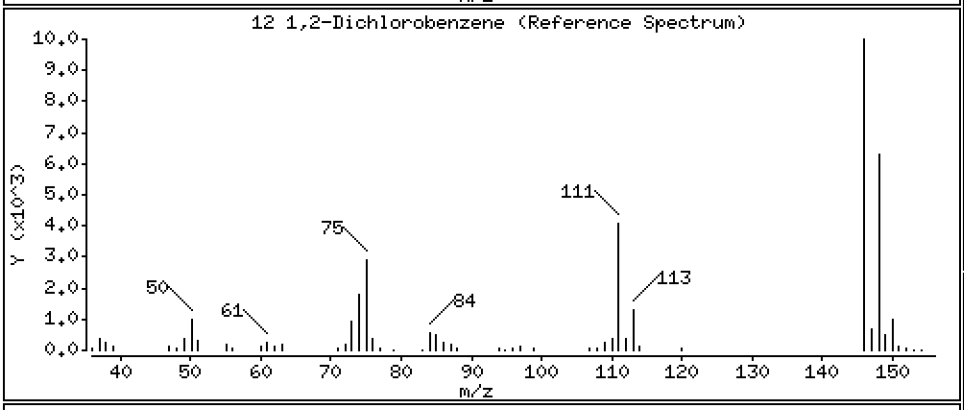
Column diameter: 0.25

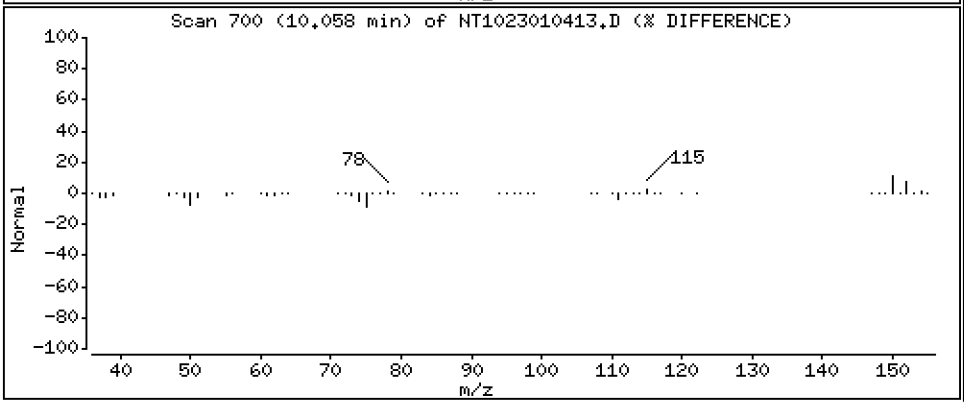
12 1,2-Dichlorobenzene

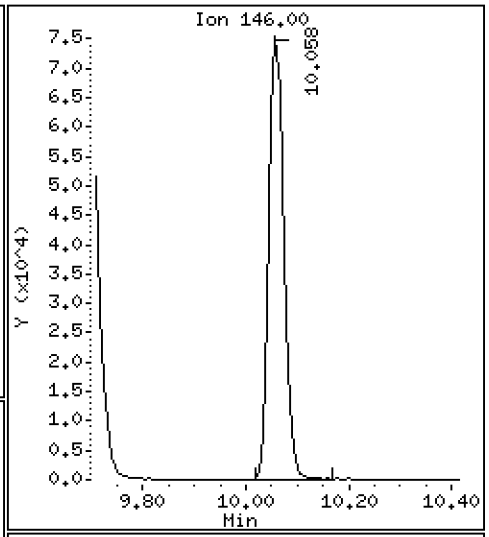
Concentration: 4.933 ug/mL

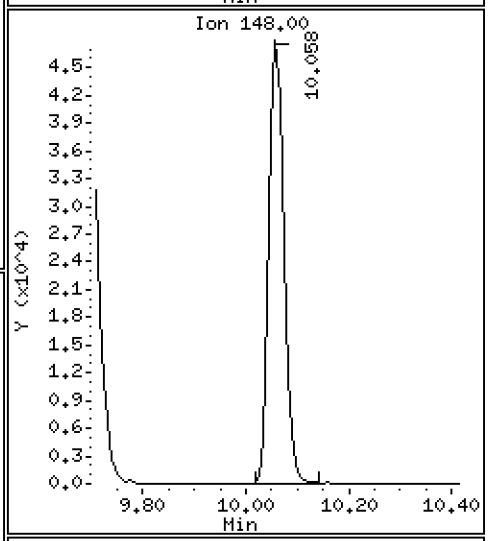


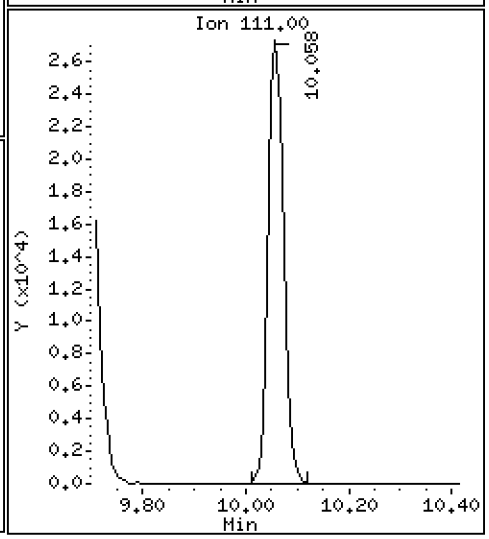












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

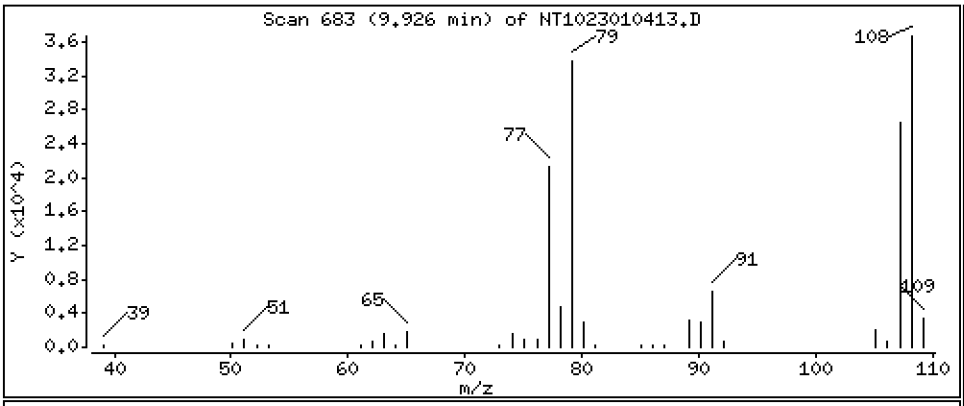
Operator: VTS

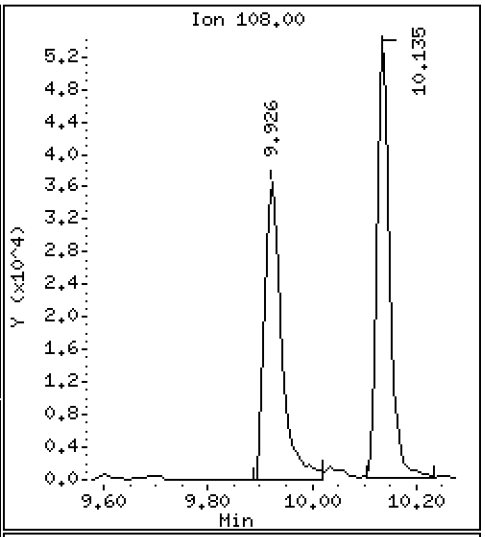
Column phase: ZB-5msi

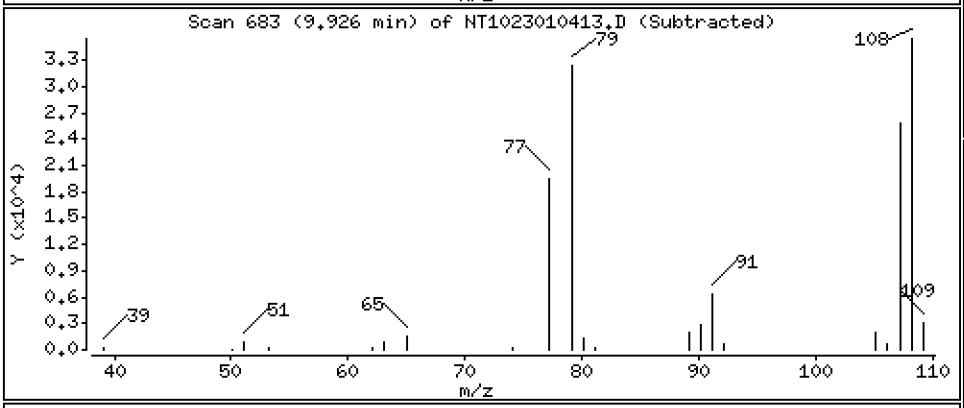
Column diameter: 0.25

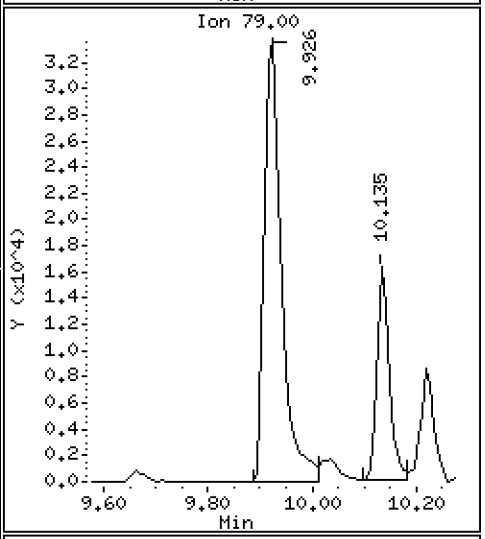
11 Benzyl alcohol

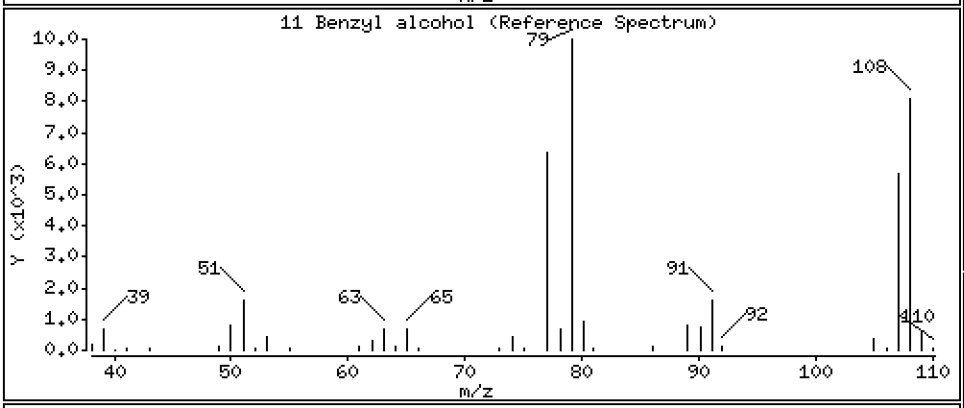
Concentration: 4.699 ug/mL

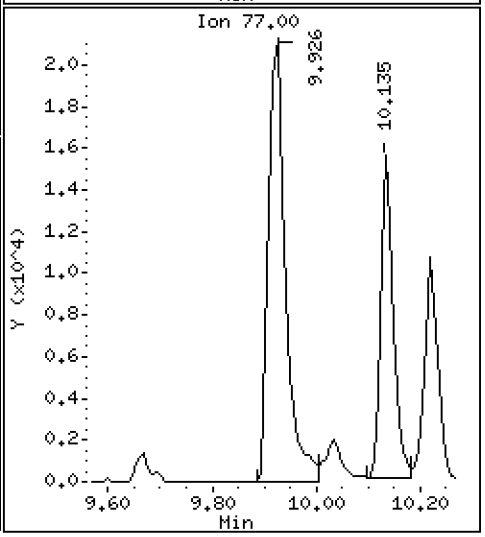


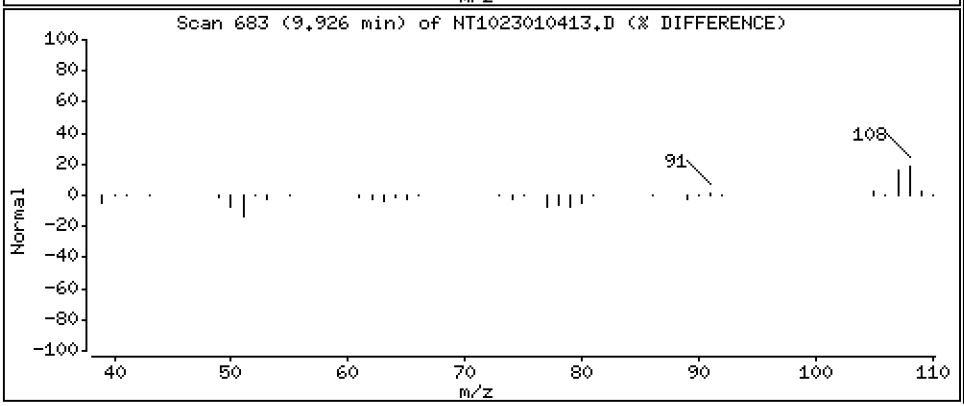












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

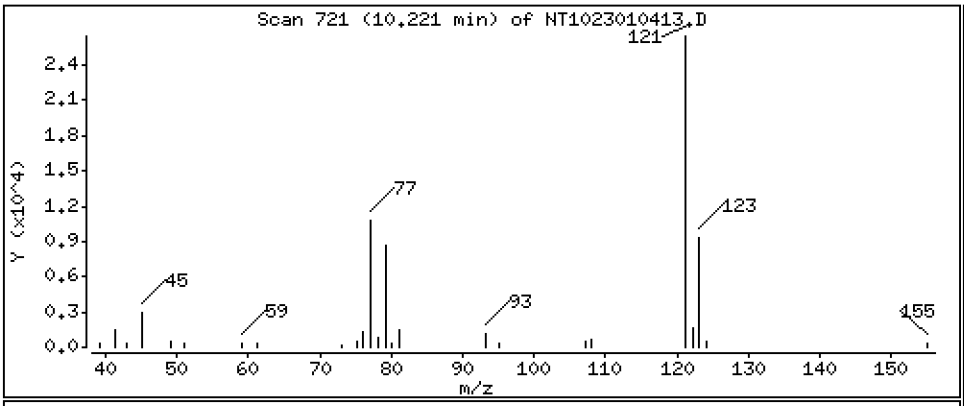
Operator: VTS

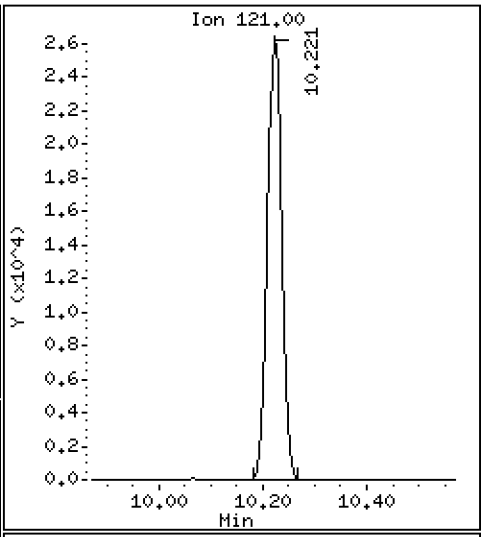
Column phase: ZB-5msi

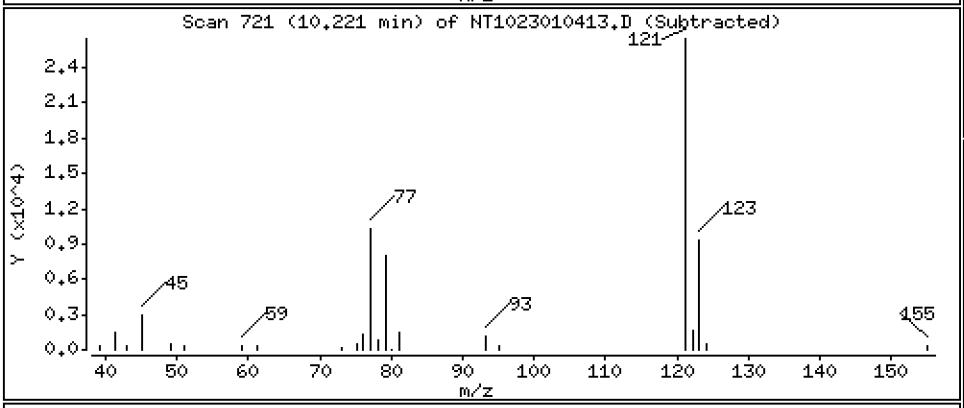
Column diameter: 0.25

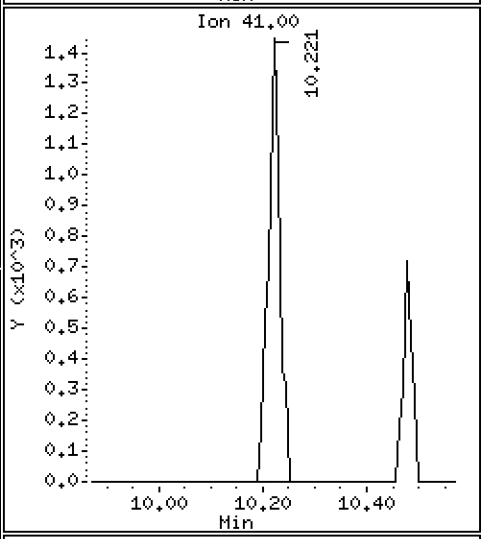
14 2,2'-oxybis(1-Chloropropane)

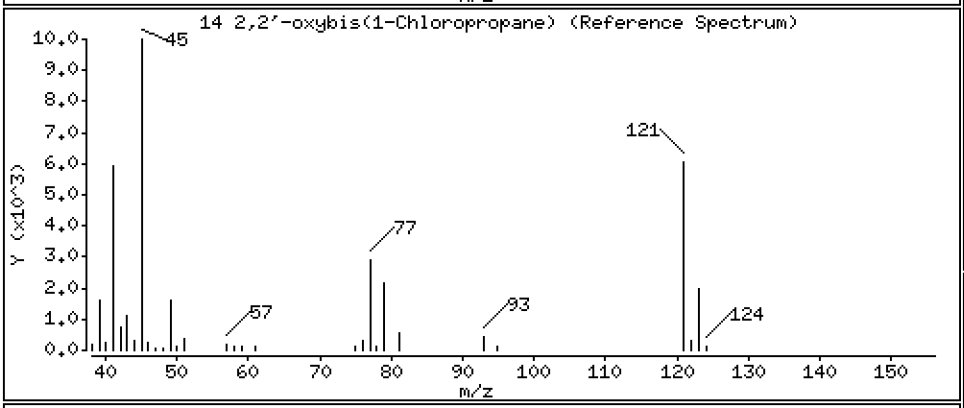
Concentration: 5.551 ug/mL

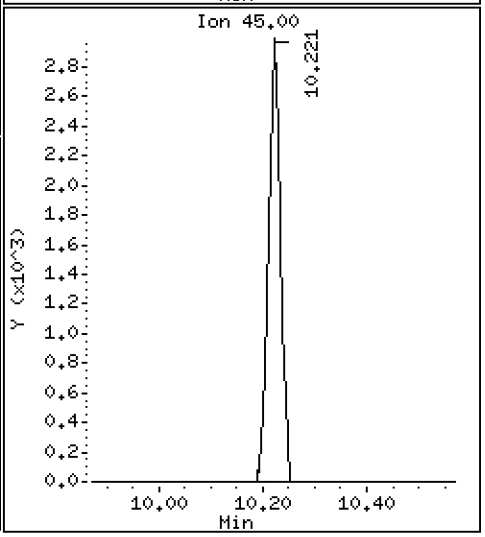


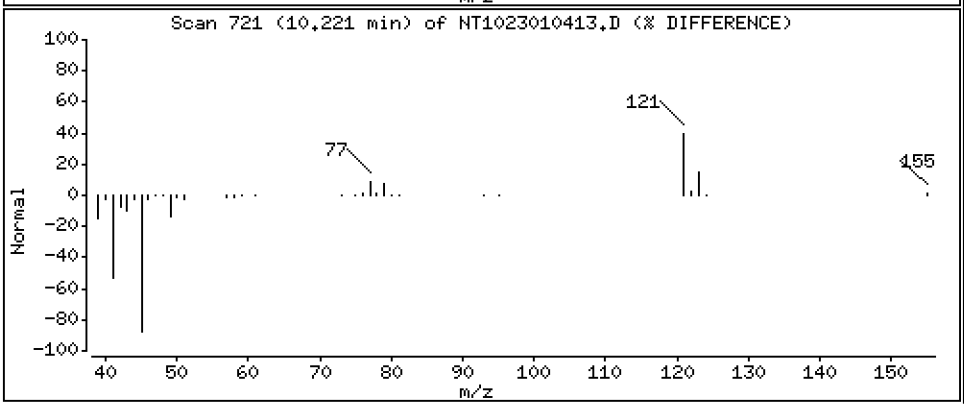












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

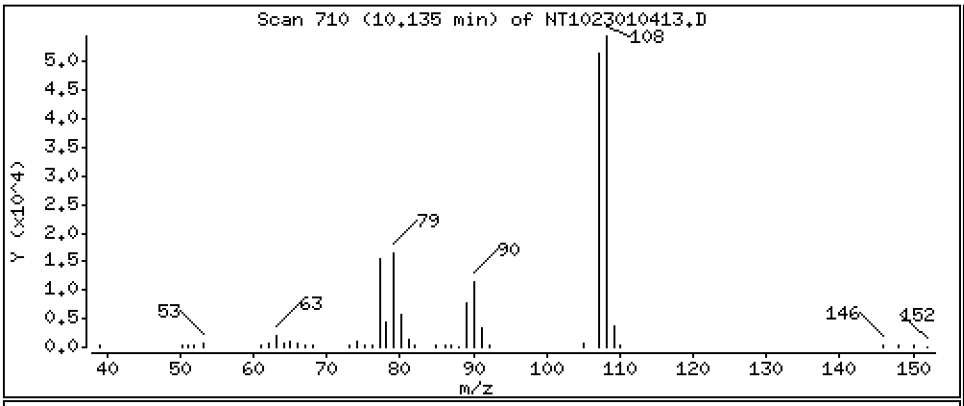
Operator: VTS

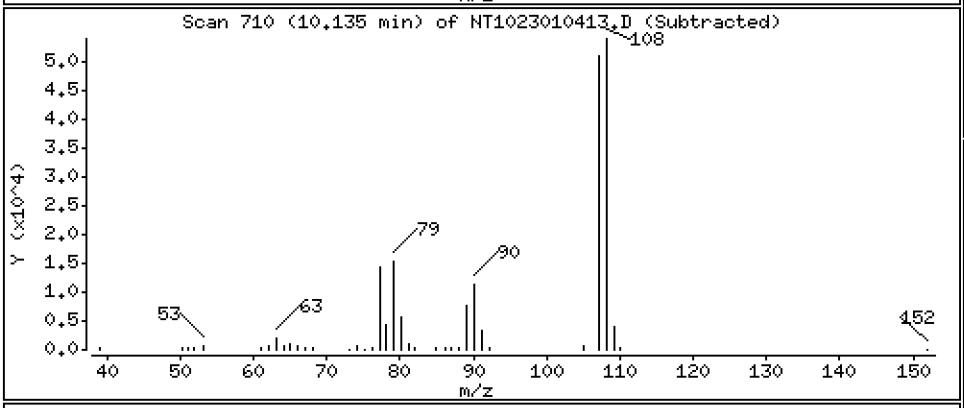
Column phase: ZB-5msi

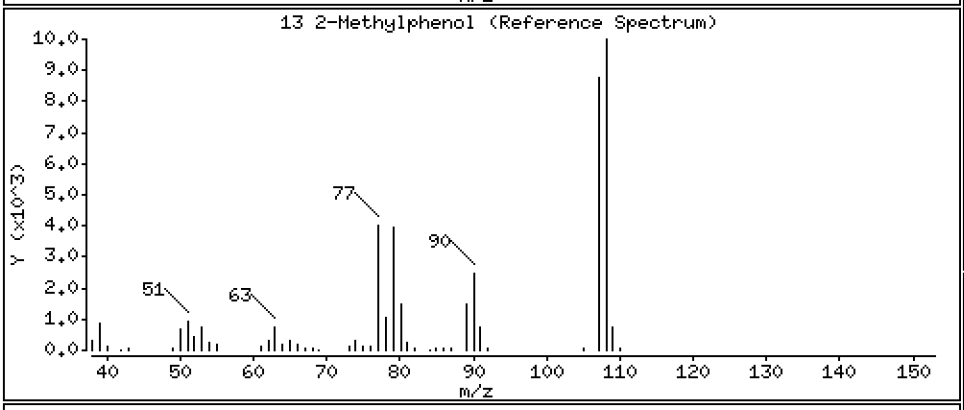
Column diameter: 0.25

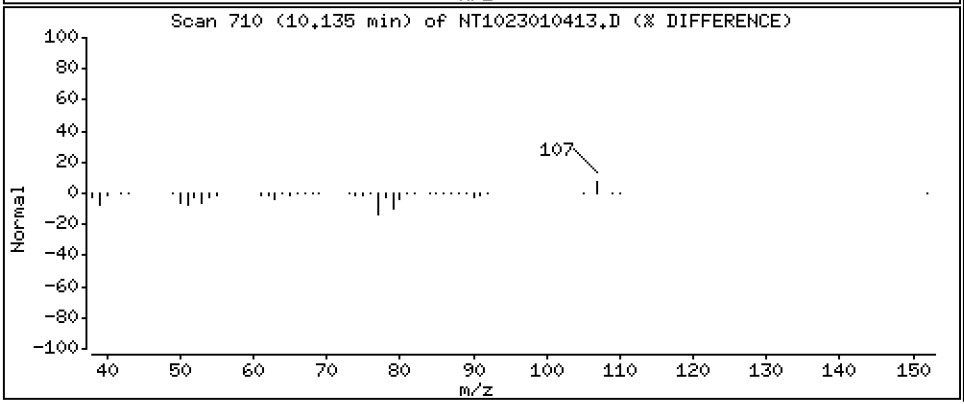
13 2-Methylphenol

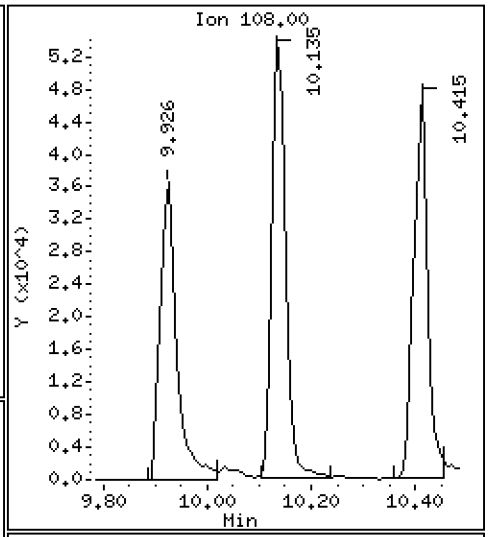
Concentration: 4.163 ug/mL

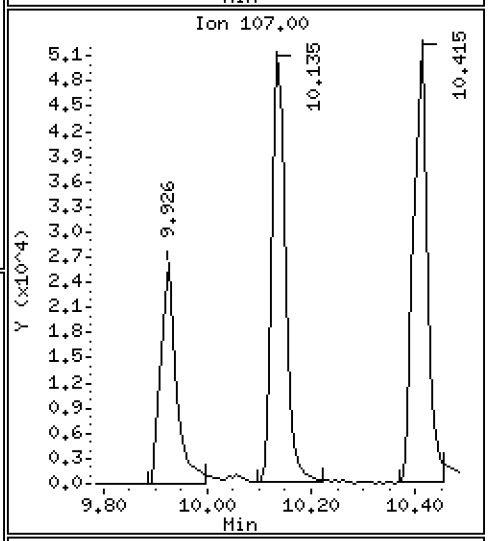


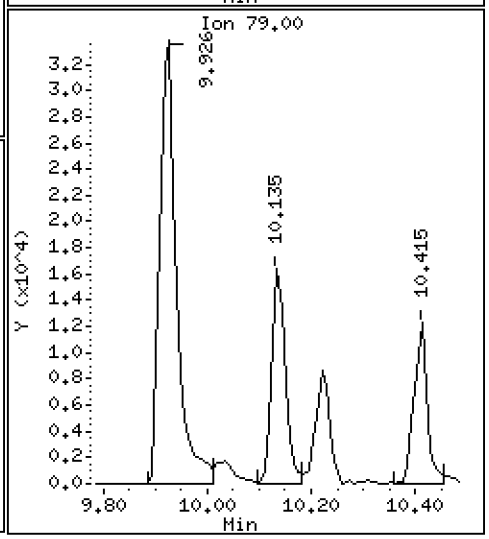












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

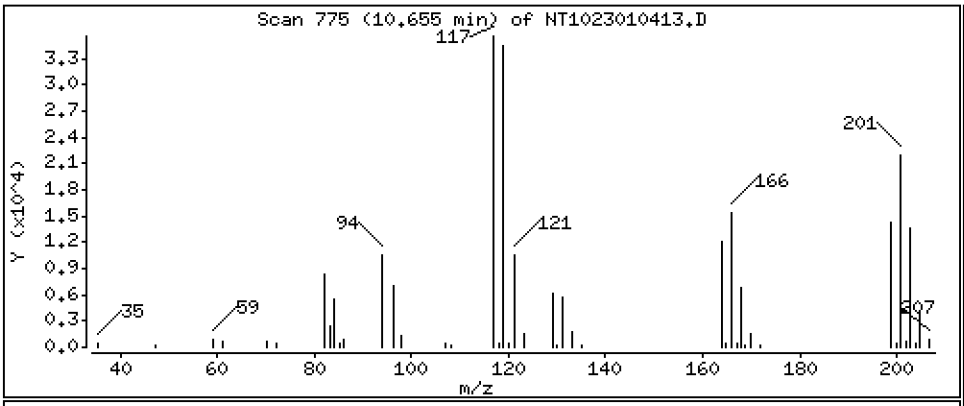
Operator: VTS

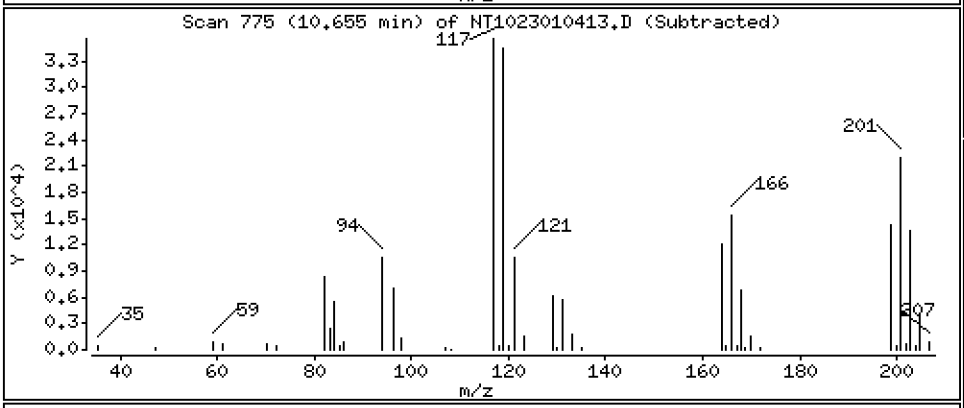
Column phase: ZB-5msi

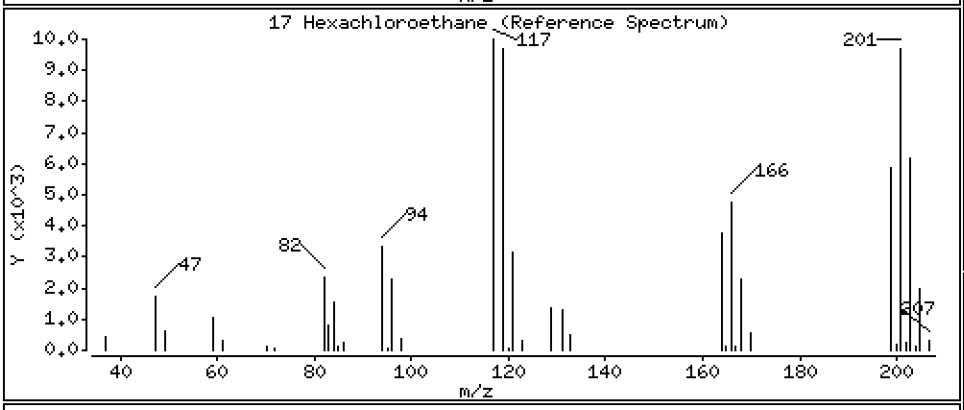
Column diameter: 0.25

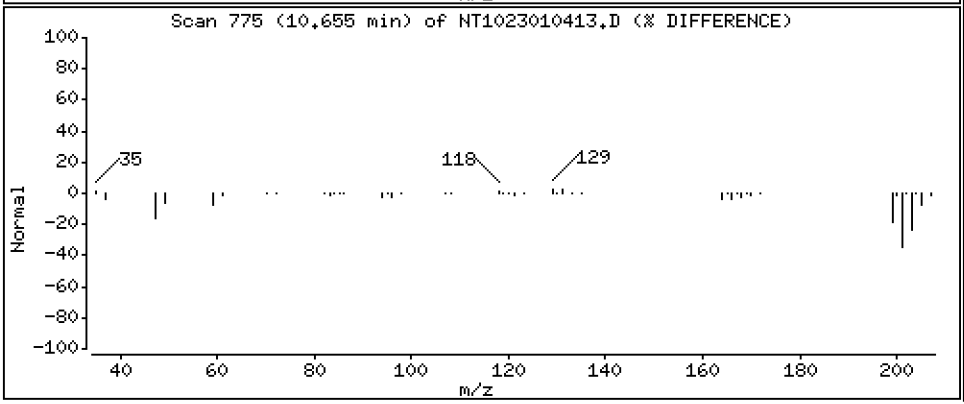
17 Hexachloroethane

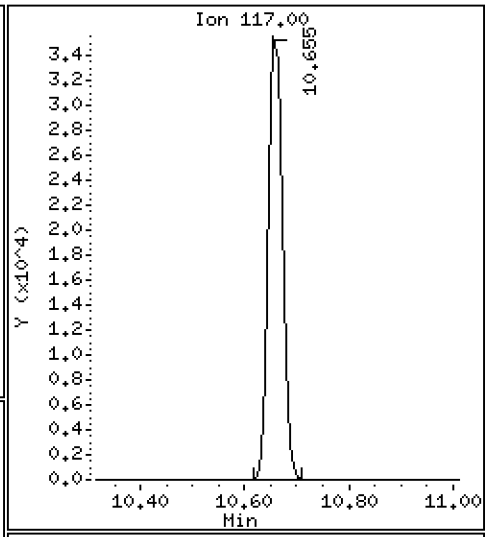
Concentration: 5.055 ug/mL

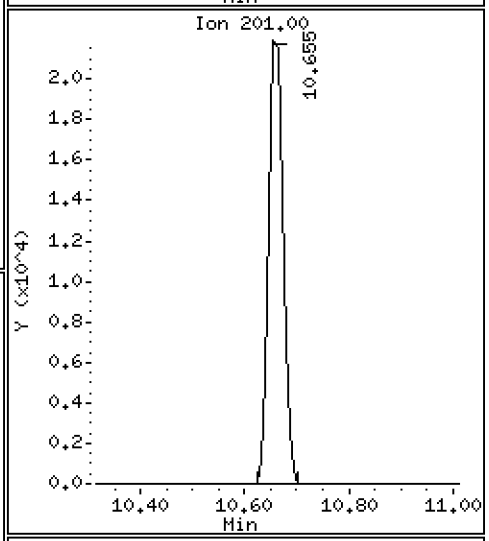


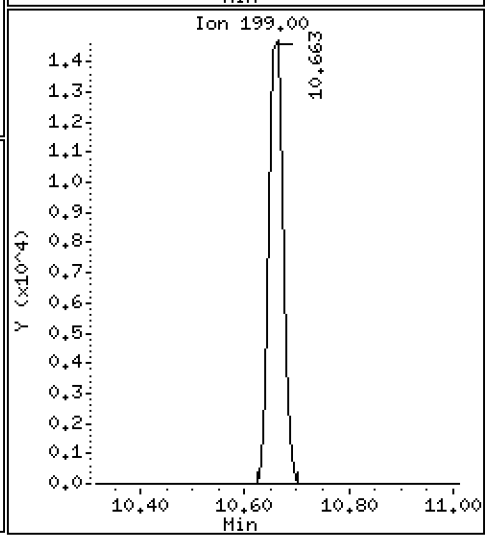












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

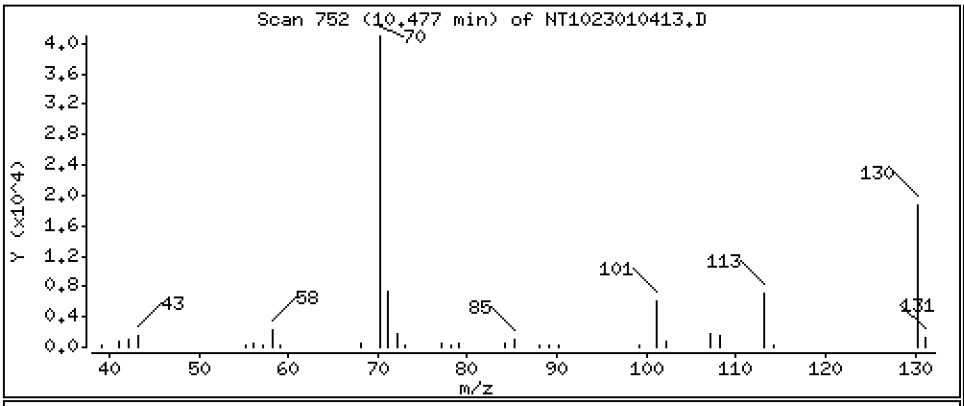
Operator: VTS

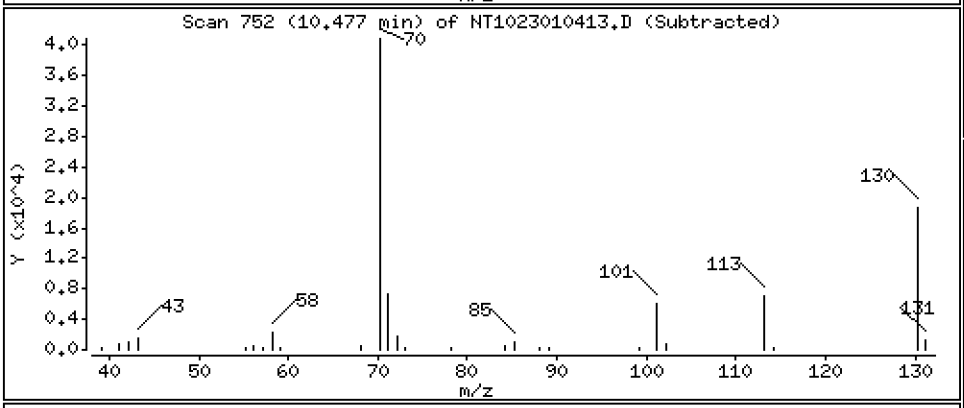
Column phase: ZB-5msi

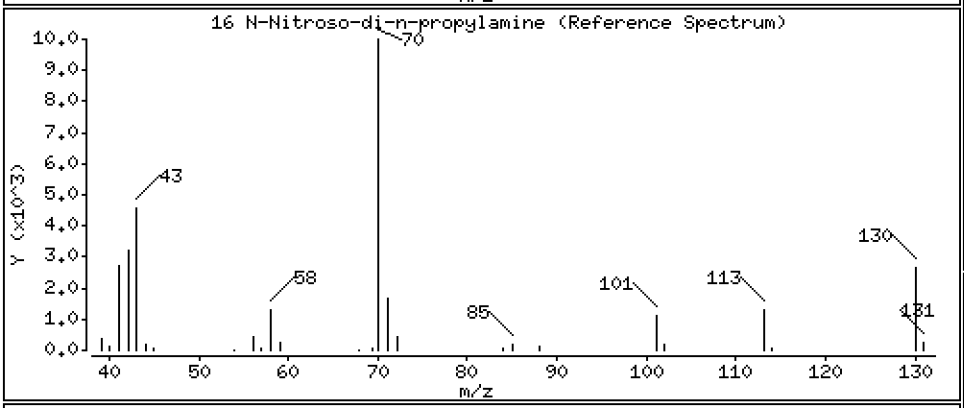
Column diameter: 0.25

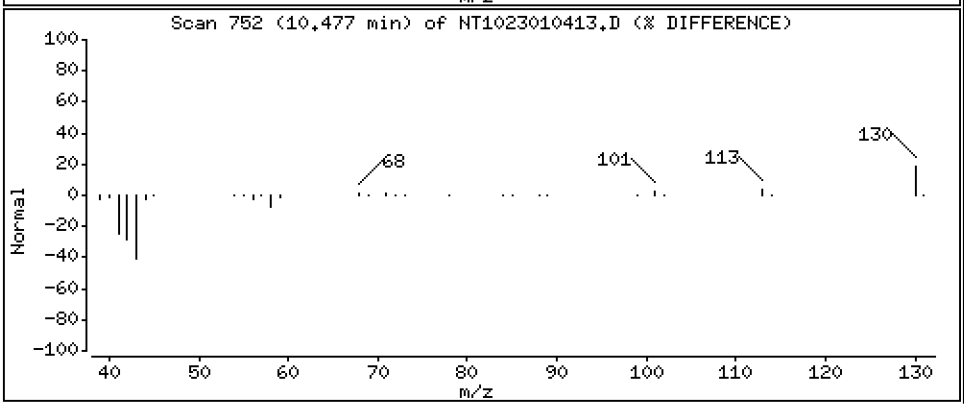
16 N-Nitroso-di-n-propylamine

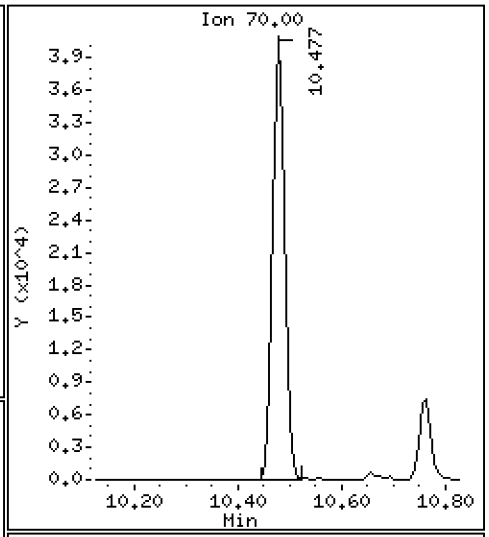
Concentration: 5.181 ug/mL

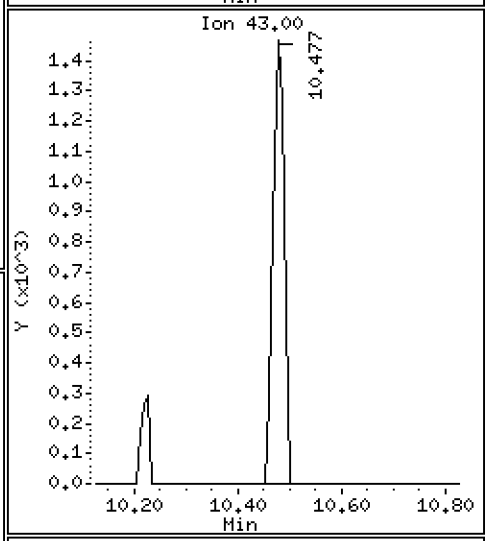


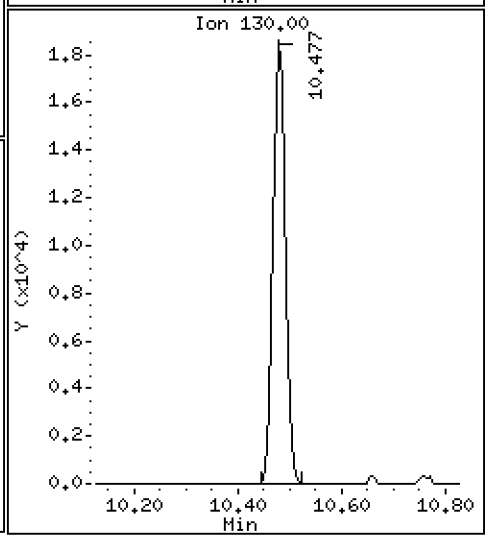












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

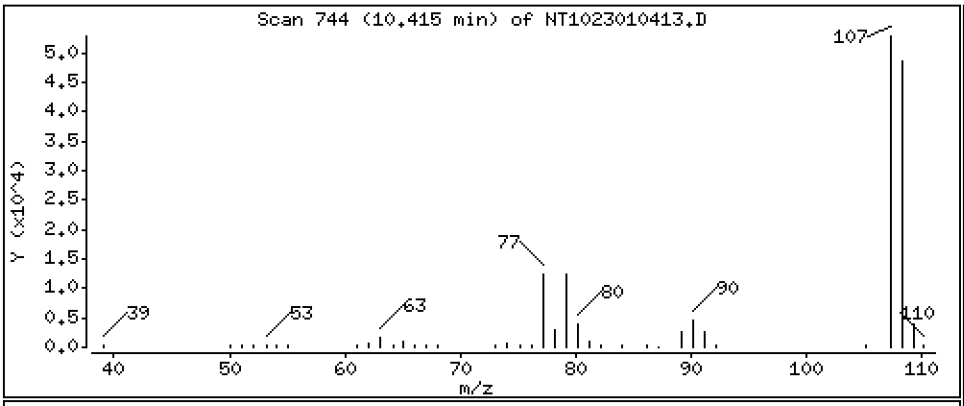
Operator: VTS

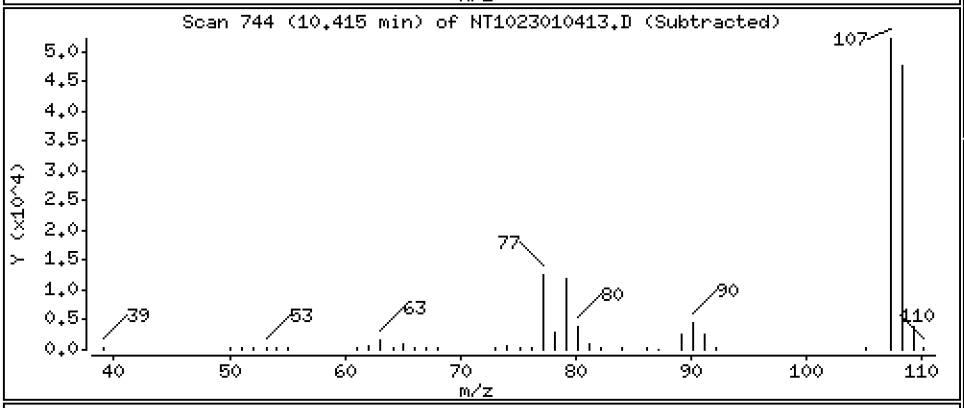
Column phase: ZB-5msi

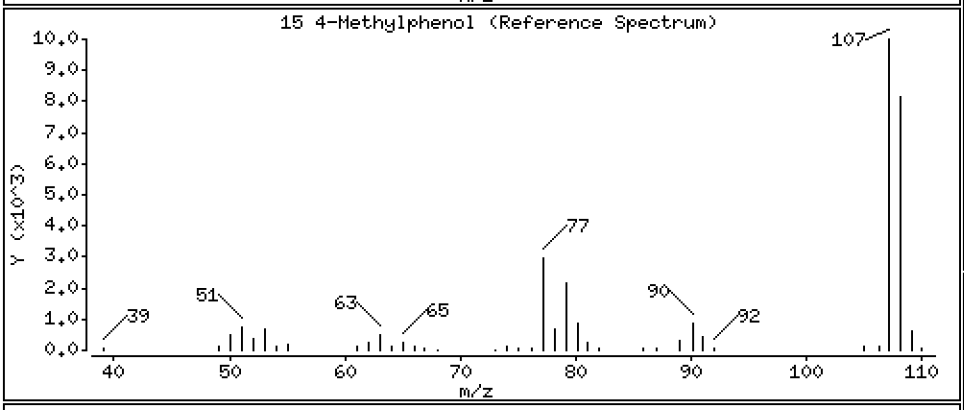
Column diameter: 0.25

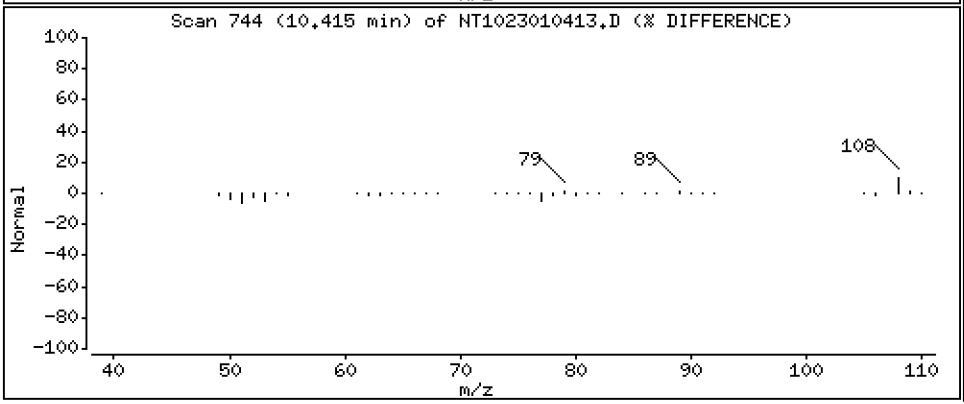
15 4-Methylphenol

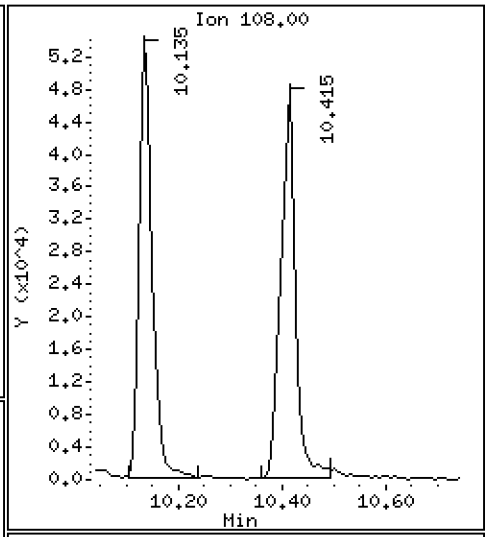
Concentration: 4.573 ug/mL

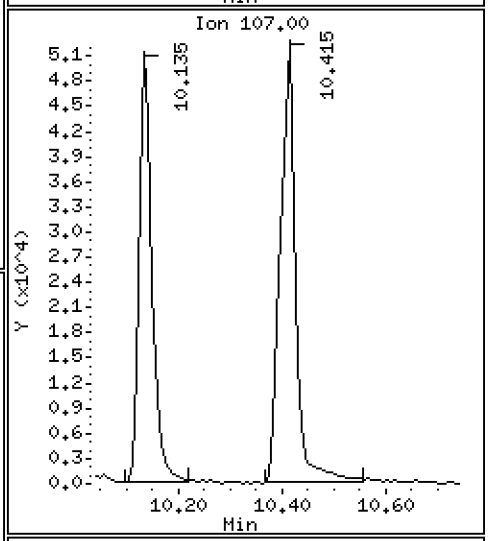


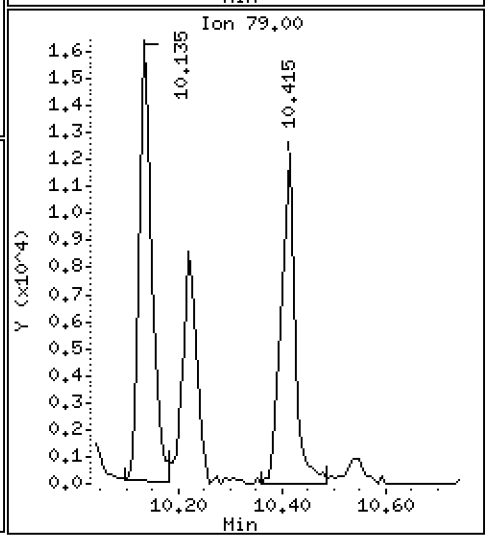












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

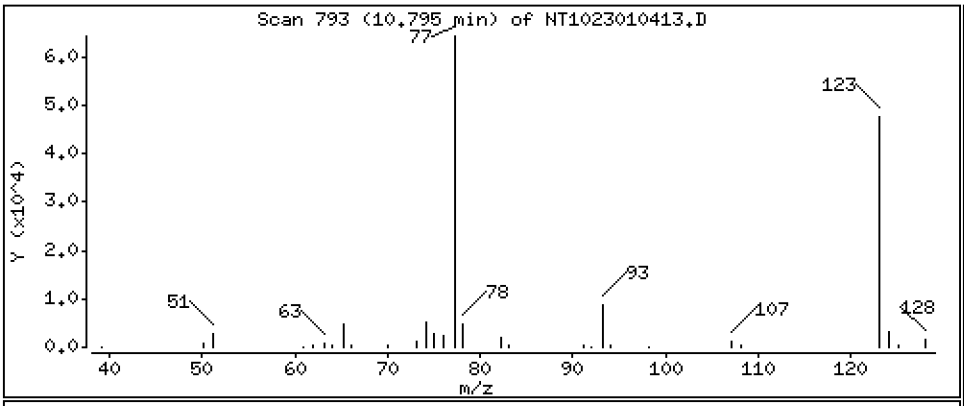
Operator: VTS

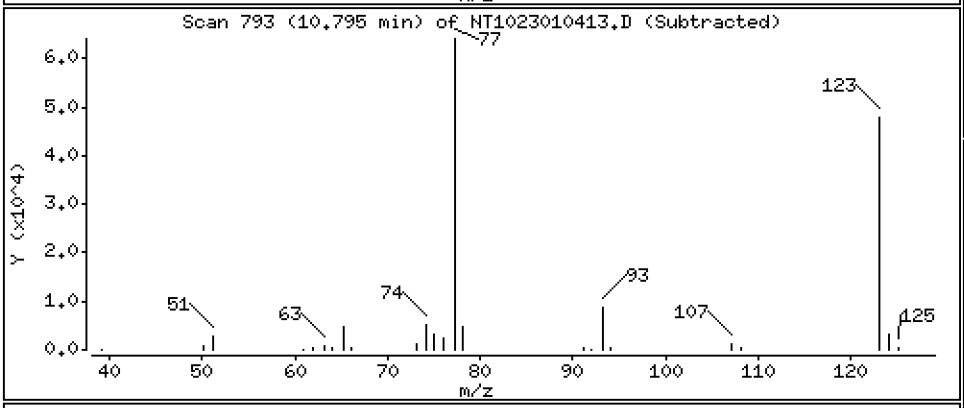
Column phase: ZB-5msi

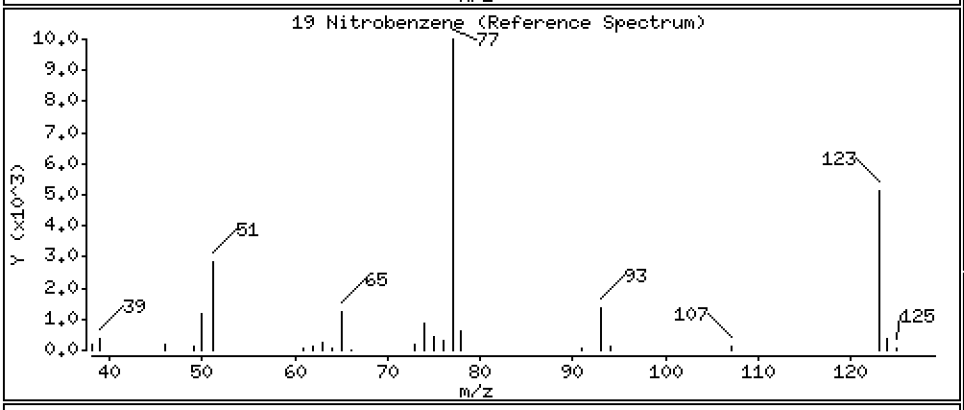
Column diameter: 0.25

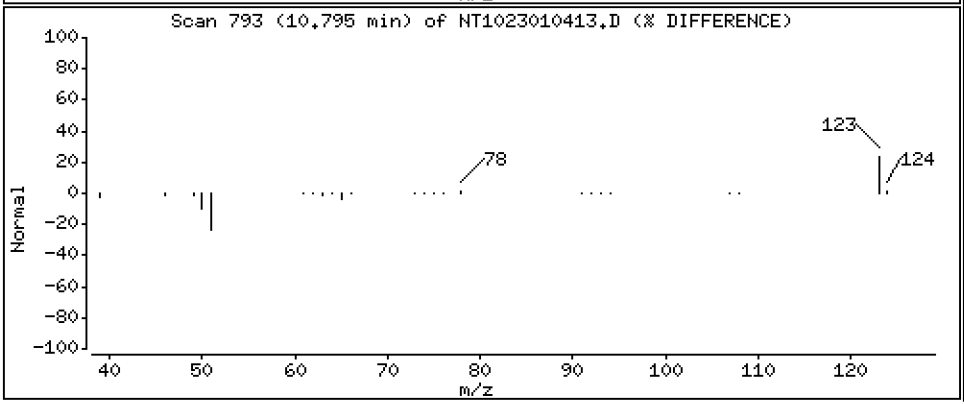
19 Nitrobenzene

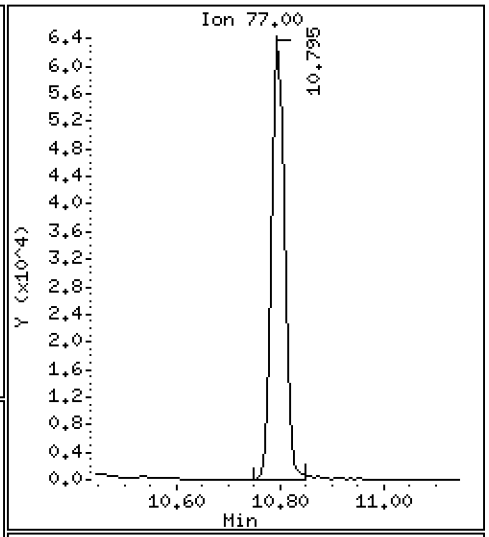
Concentration: 4.932 ug/mL

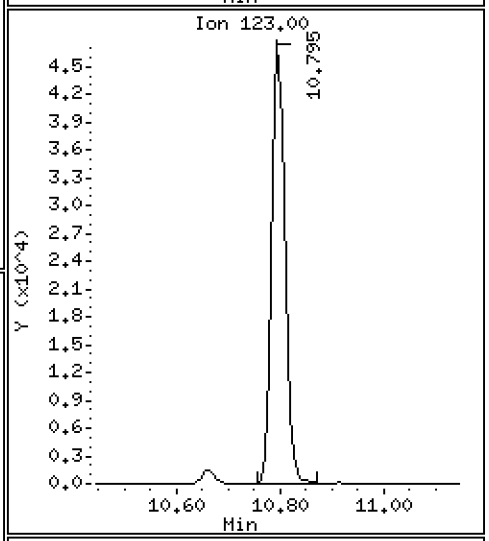


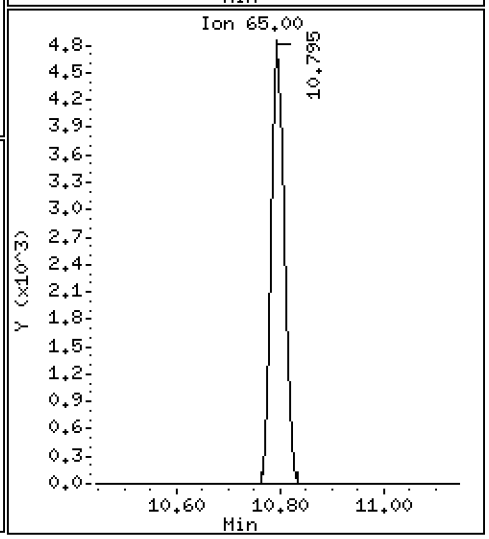












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

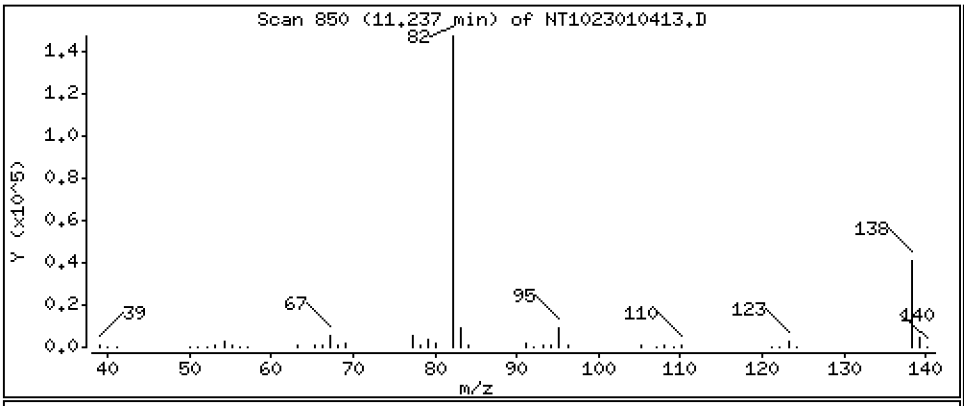
Operator: VTS

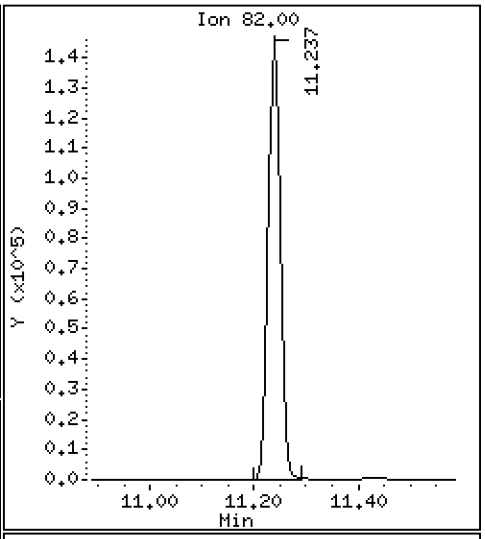
Column phase: ZB-5msi

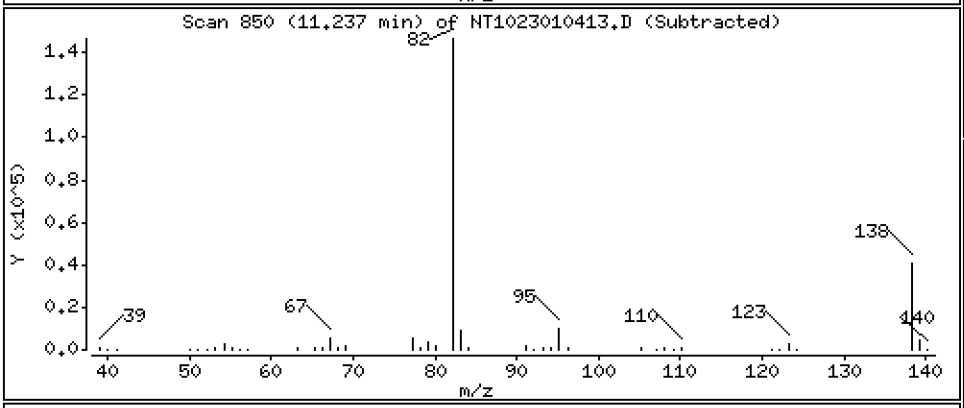
Column diameter: 0.25

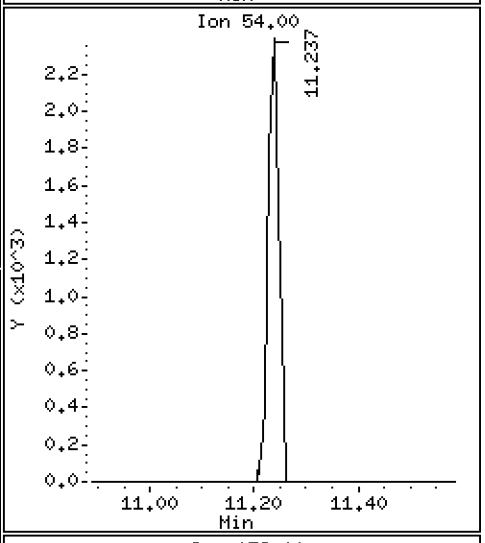
20 Isophorone

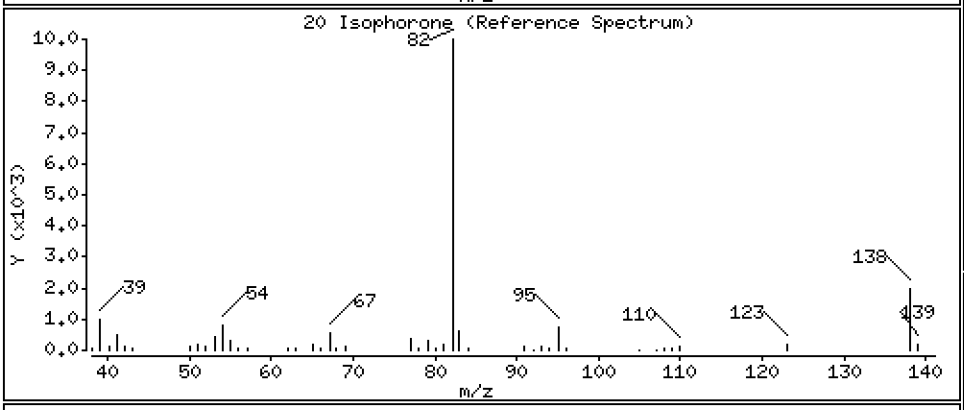
Concentration: 6.640 ug/mL

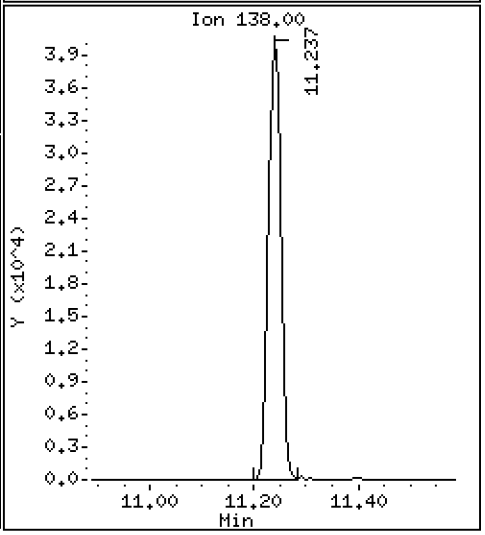


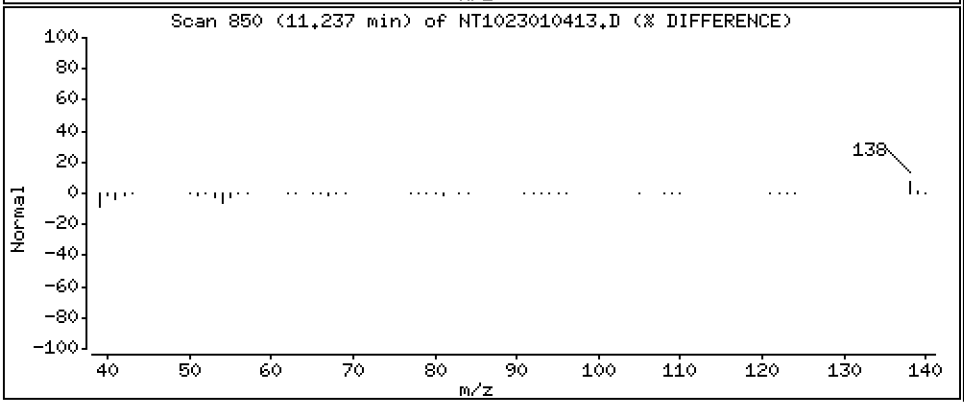












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

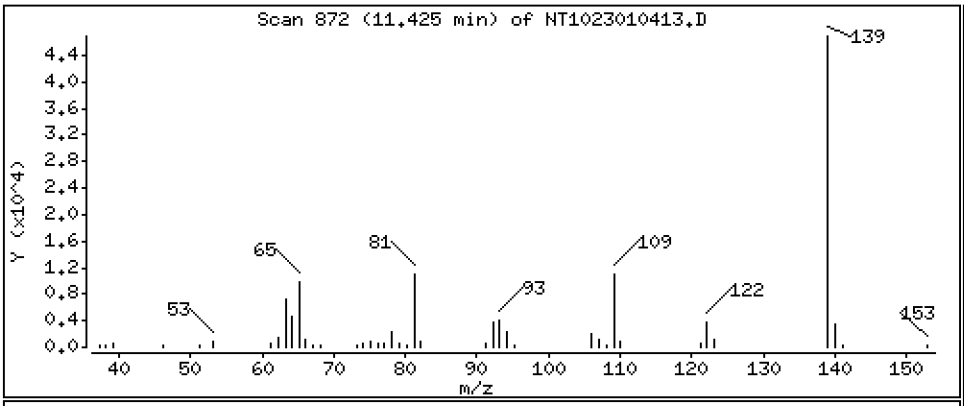
Operator: VTS

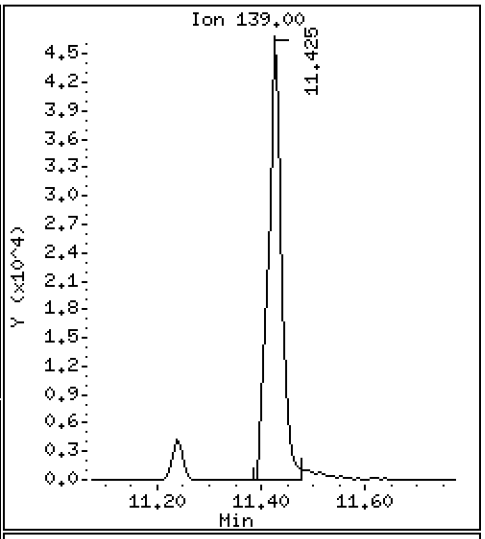
Column phase: ZB-5msi

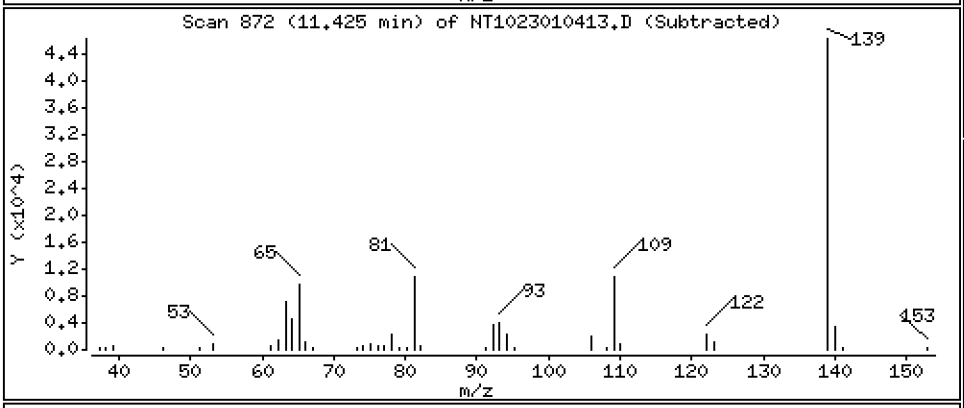
Column diameter: 0.25

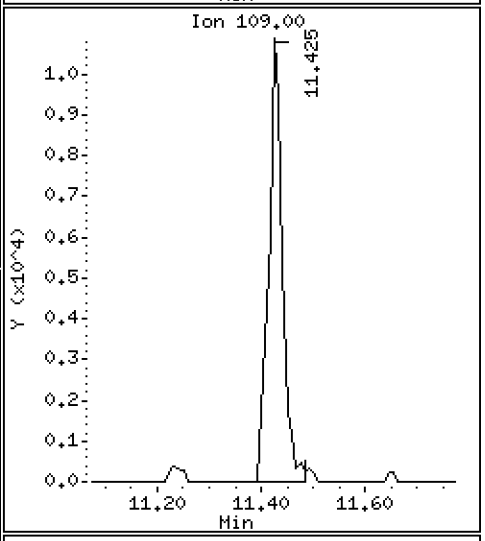
21 2-Nitrophenol

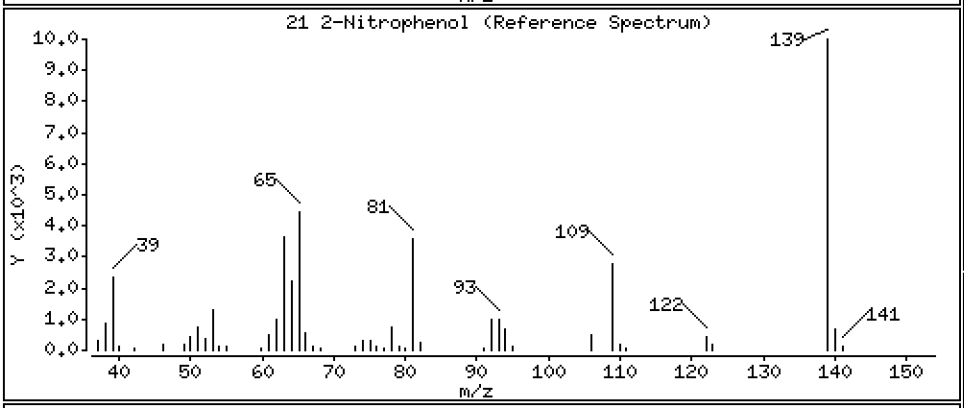
Concentration: 4.479 ug/mL

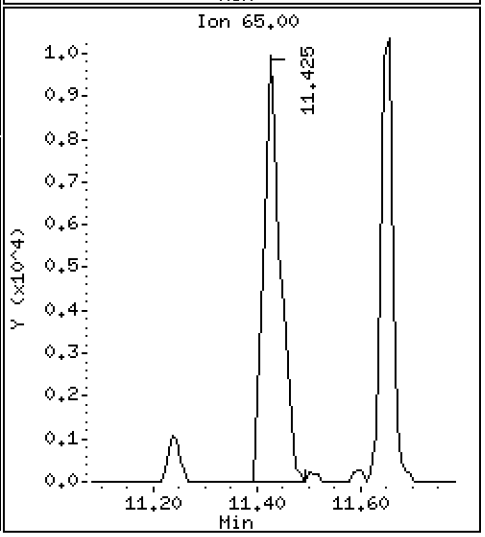


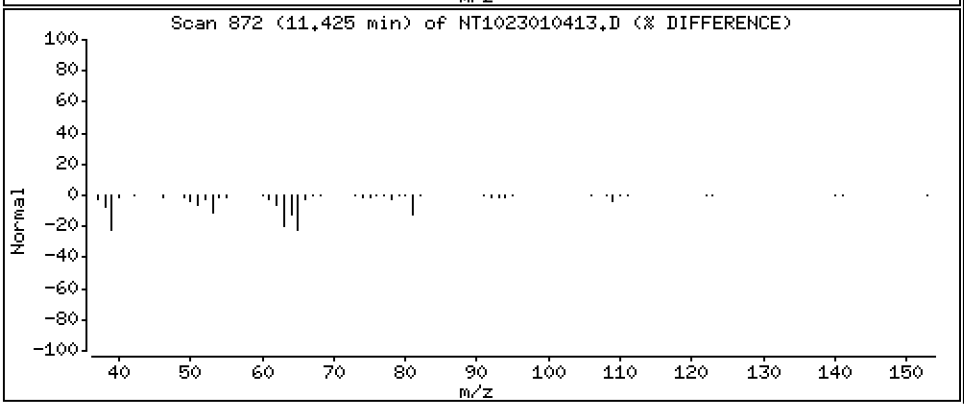












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

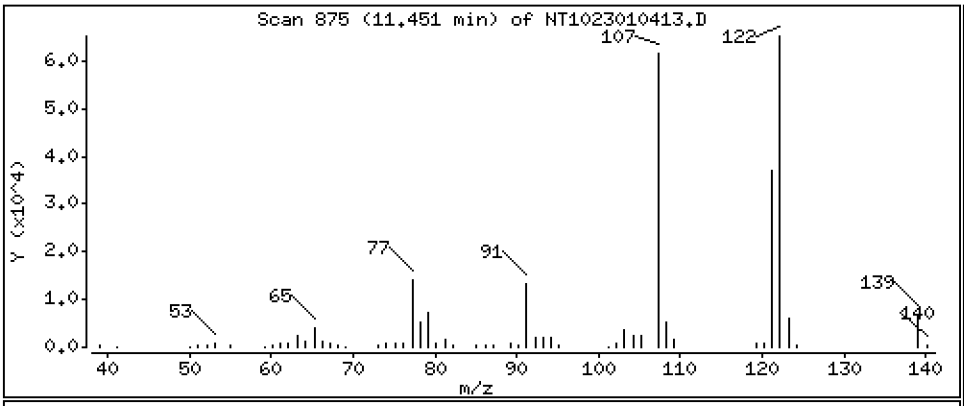
Operator: VTS

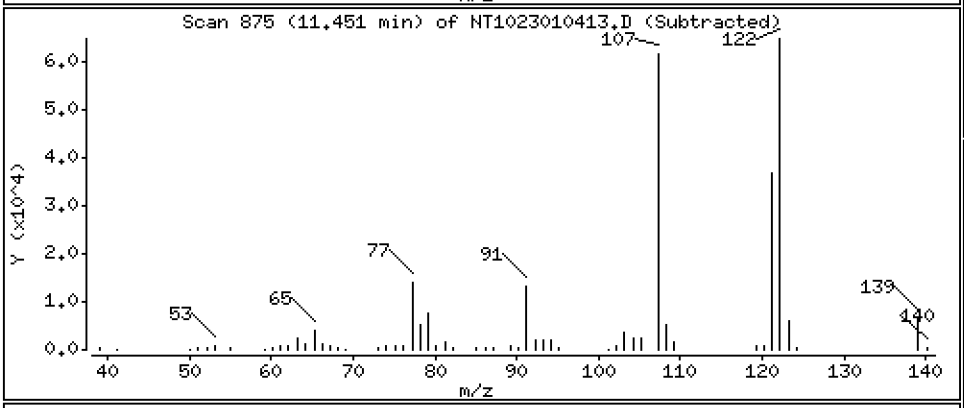
Column phase: ZB-5msi

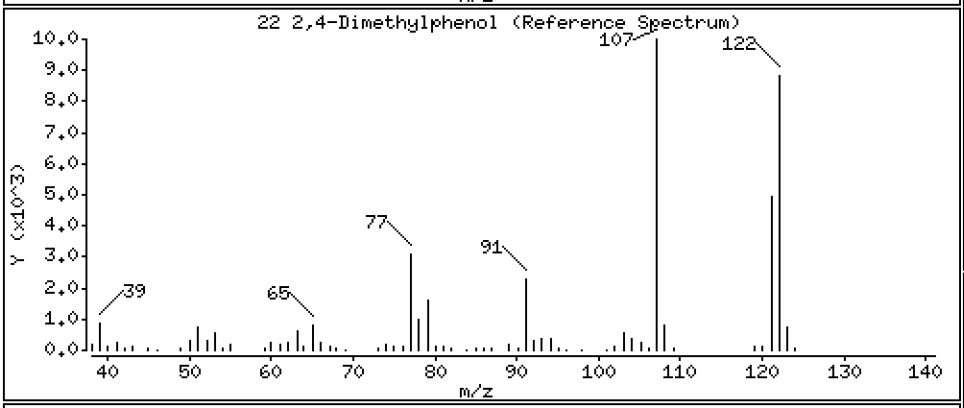
Column diameter: 0.25

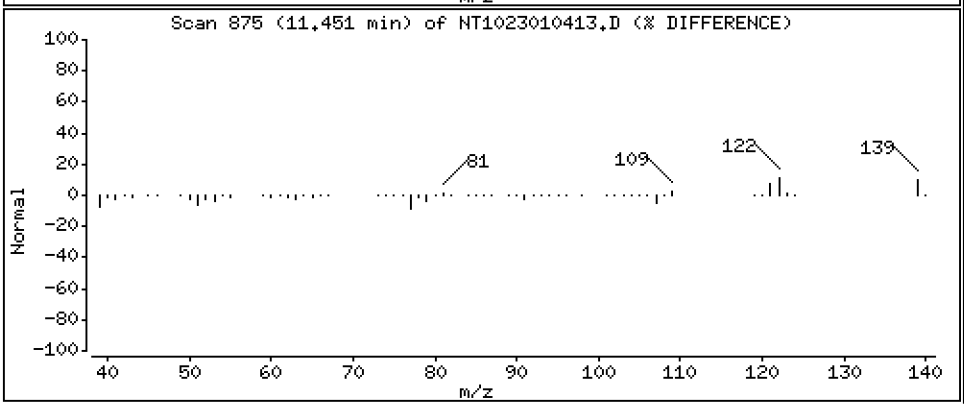
22 2,4-Dimethylphenol

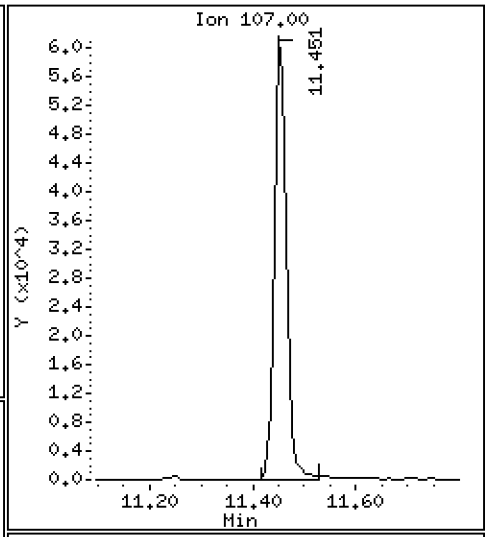
Concentration: 3.770 ug/mL

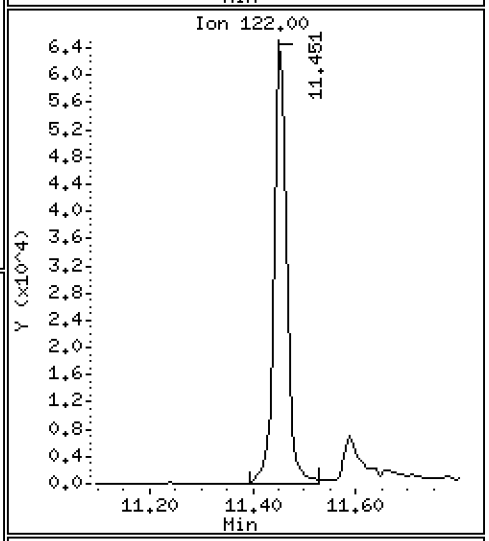


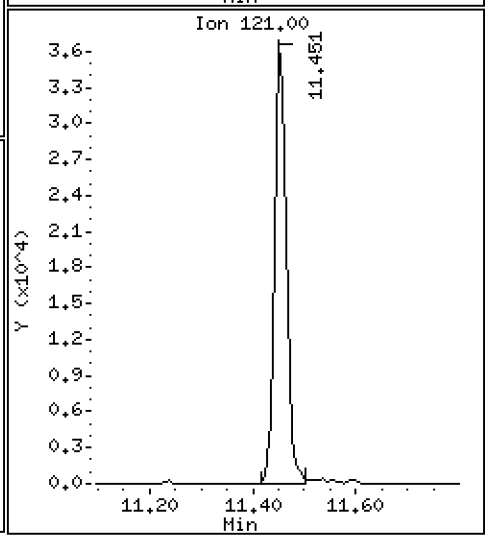












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

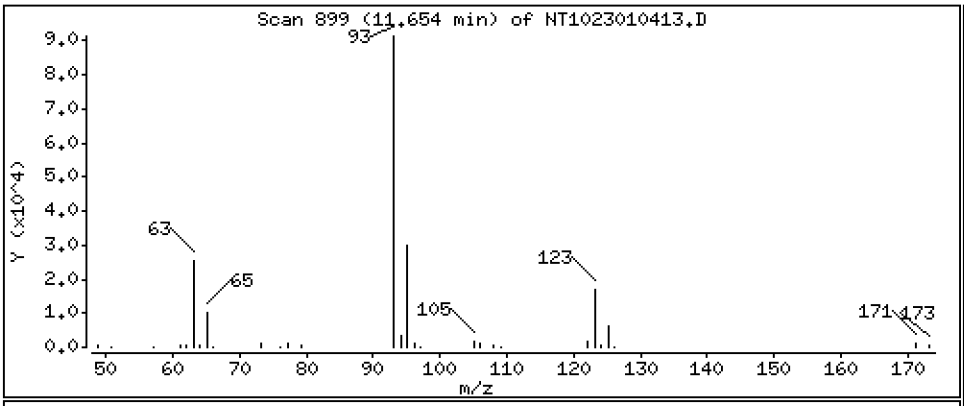
Operator: VTS

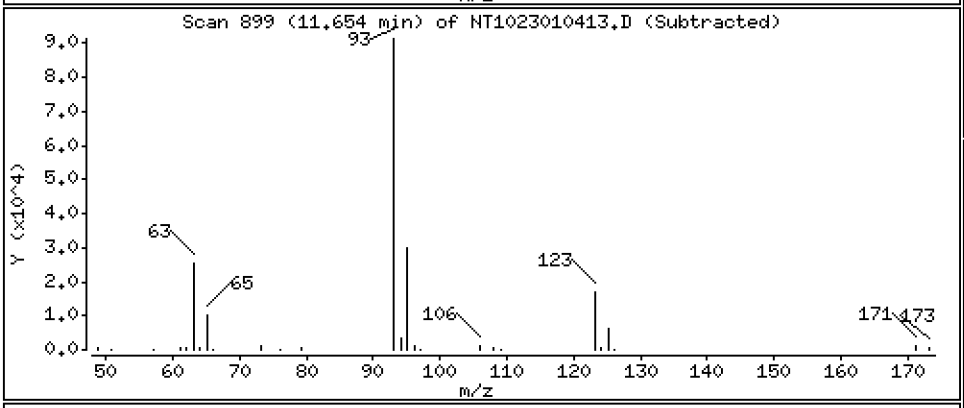
Column phase: ZB-5msi

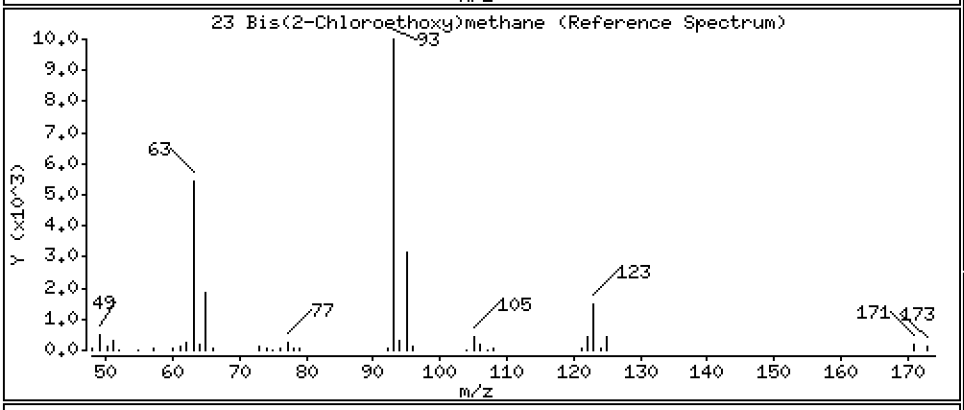
Column diameter: 0.25

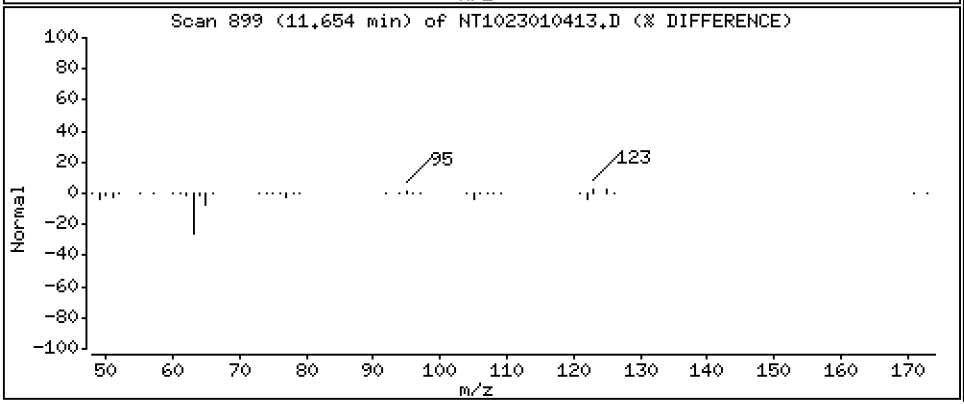
23 Bis(2-Chloroethoxy)methane

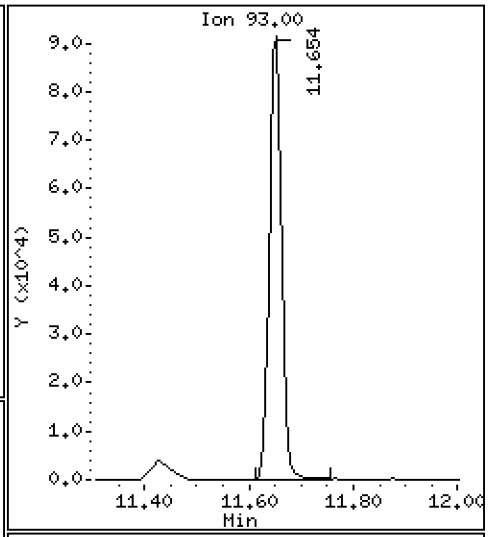
Concentration: 6.332 ug/mL

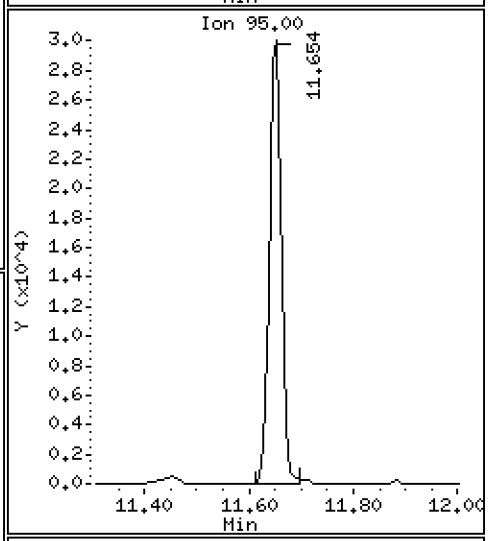


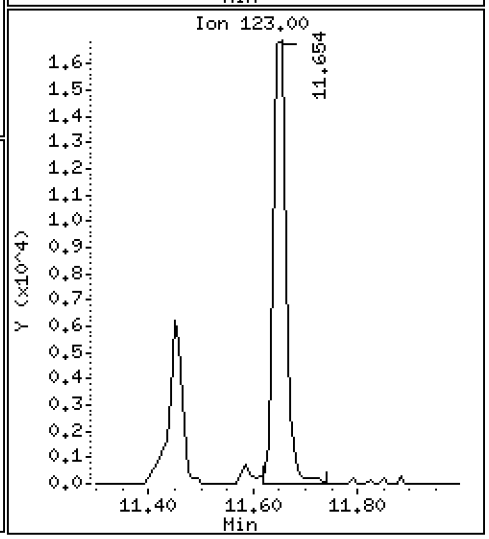












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

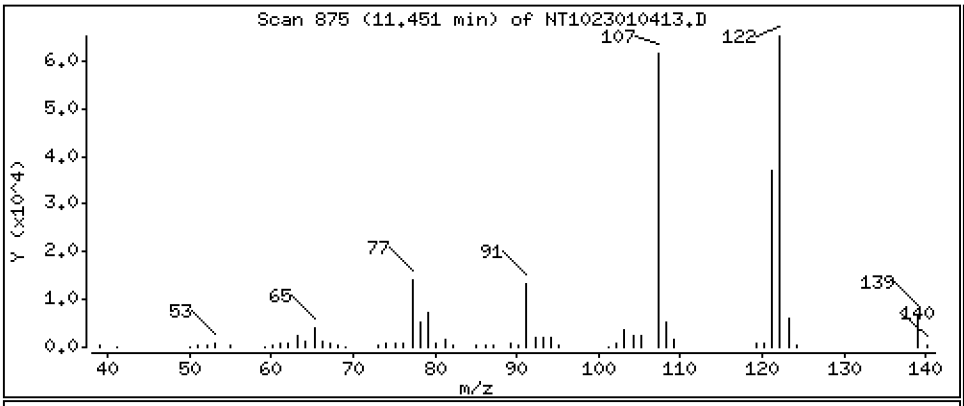
Operator: VTS

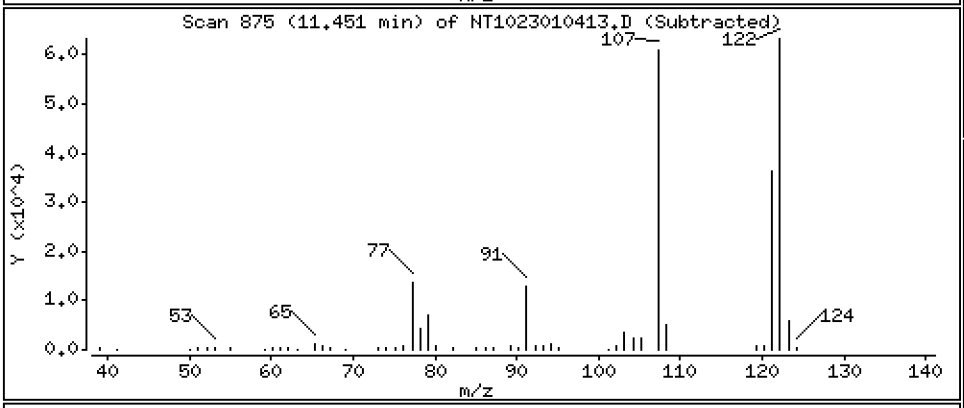
Column phase: ZB-5msi

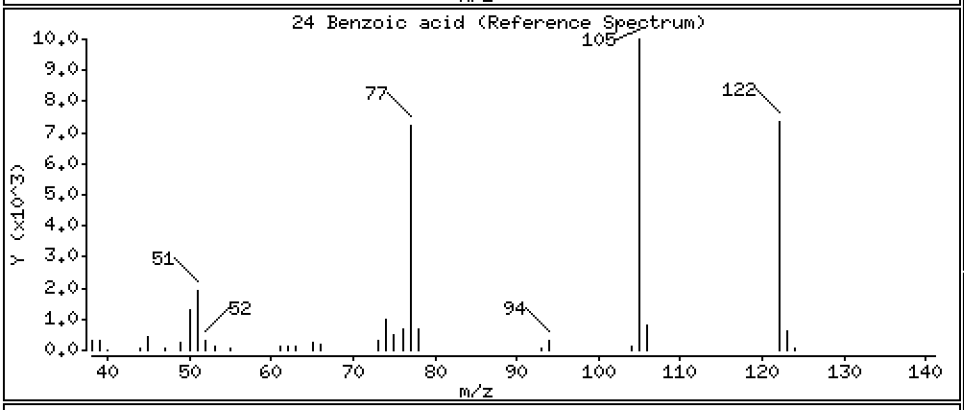
Column diameter: 0.25

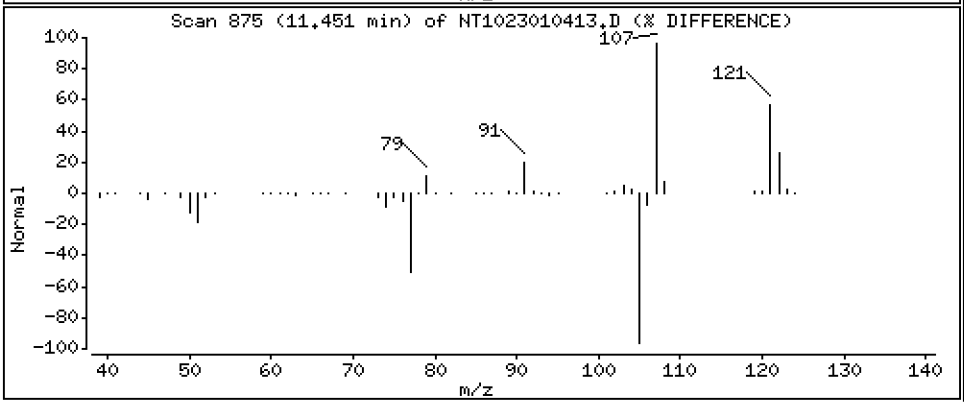
24 Benzoic acid

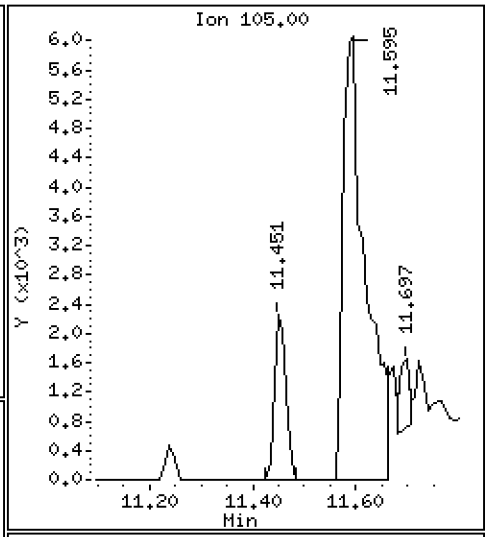
Concentration: 0.3166 ug/mL

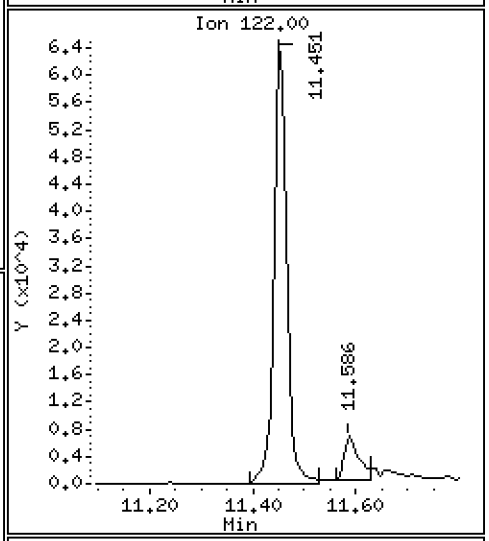


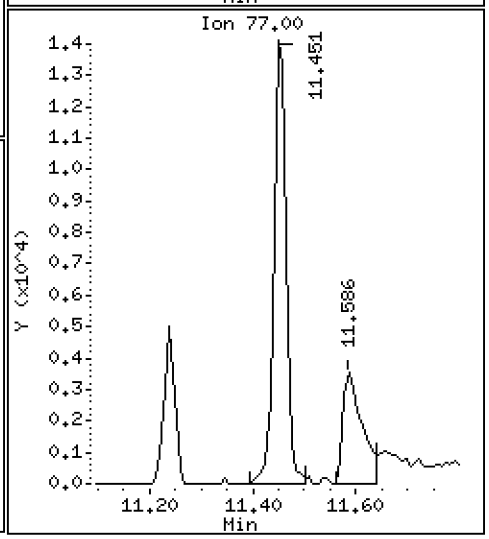












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

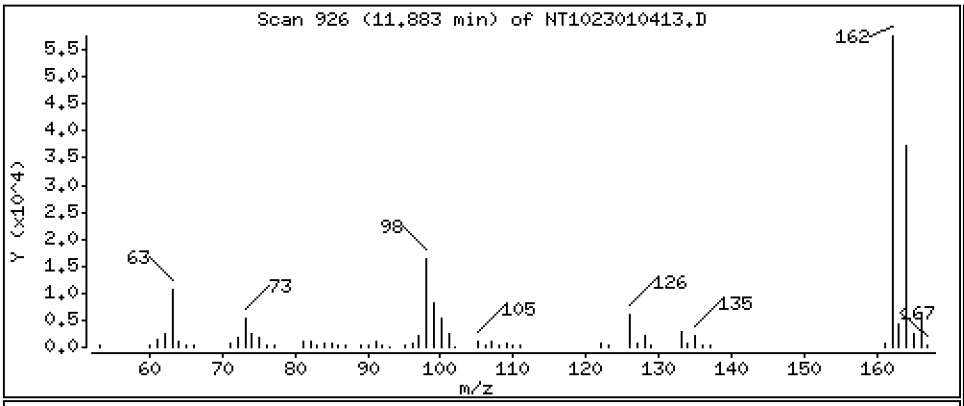
Operator: VTS

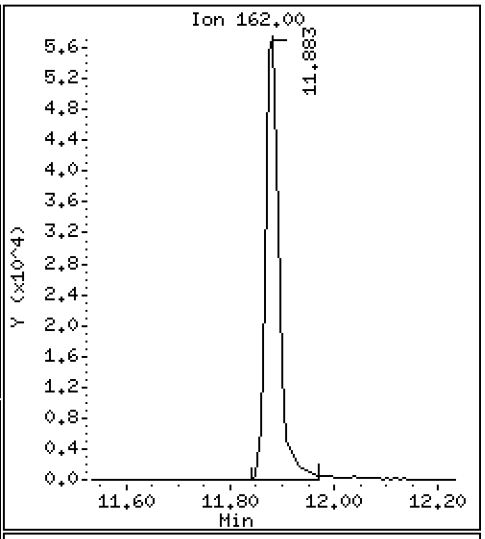
Column phase: ZB-5msi

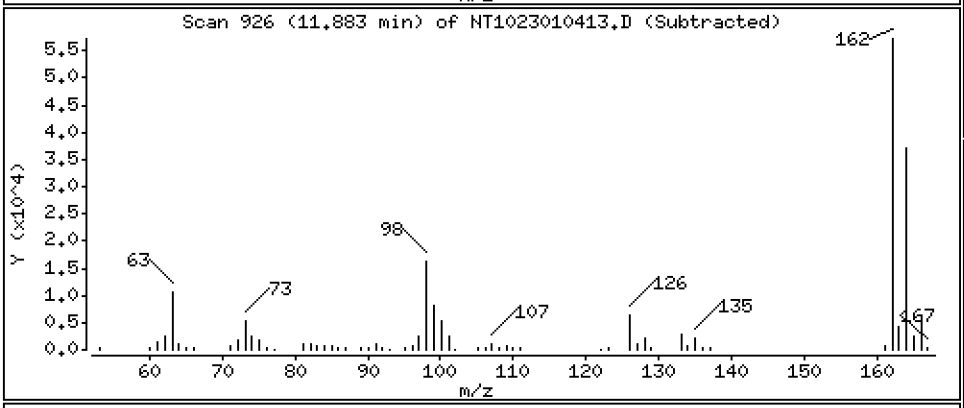
Column diameter: 0.25

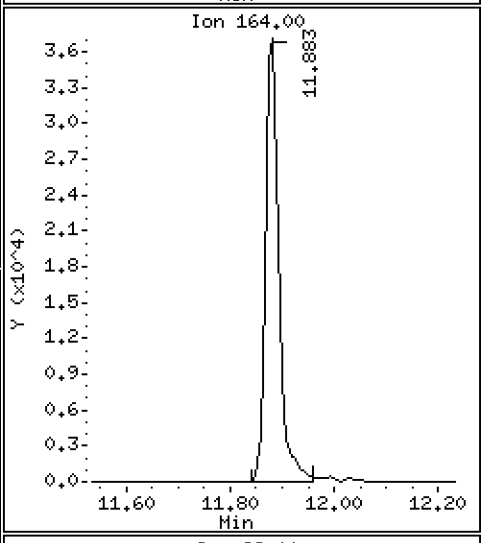
25 2,4-Dichlorophenol

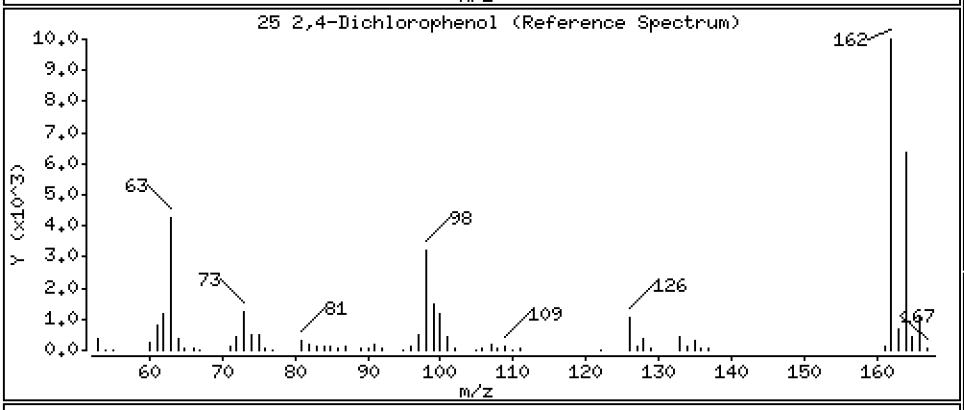
Concentration: 5.098 ug/mL

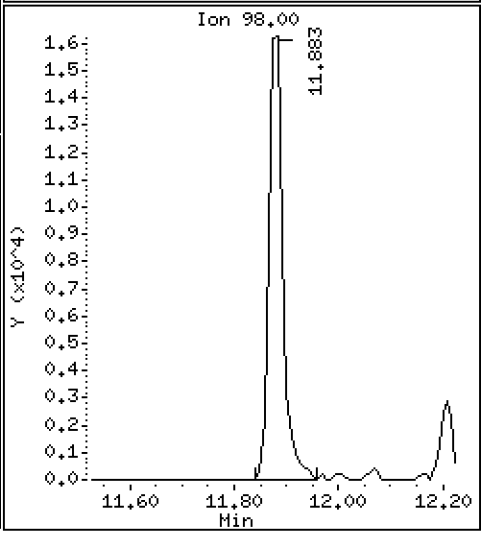


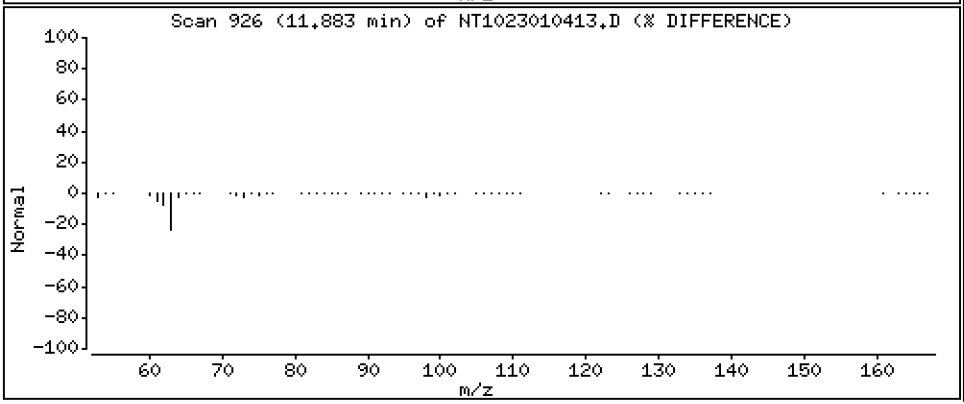












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

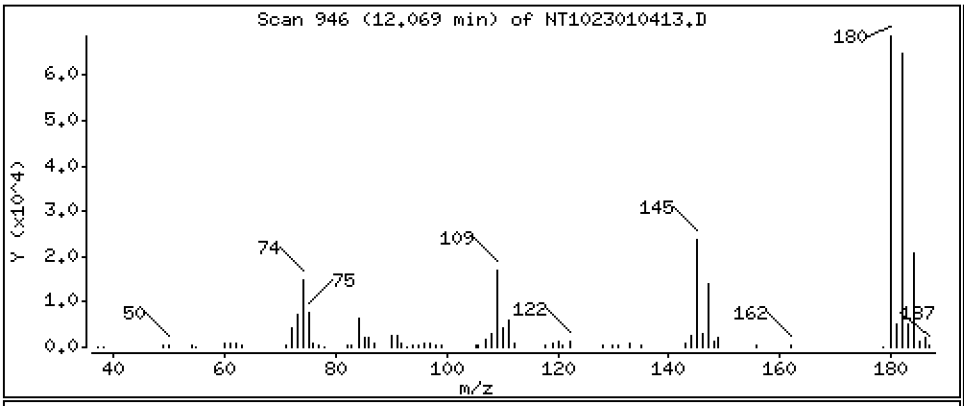
Operator: VTS

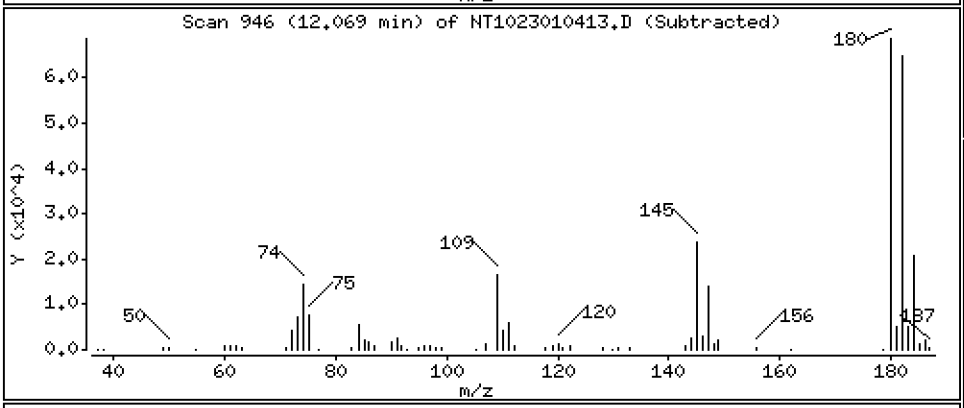
Column phase: ZB-5msi

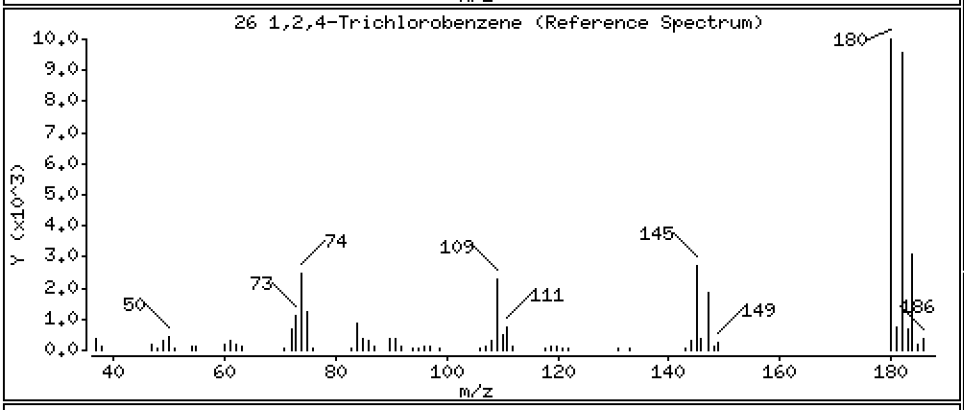
Column diameter: 0.25

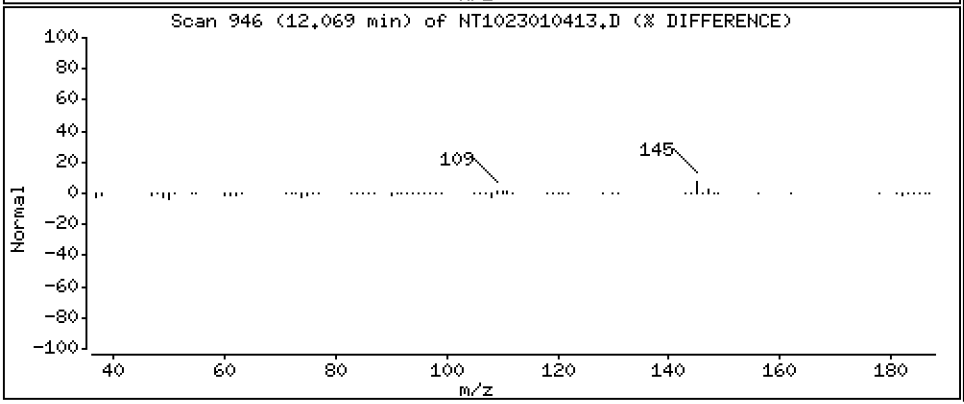
26 1,2,4-Trichlorobenzene

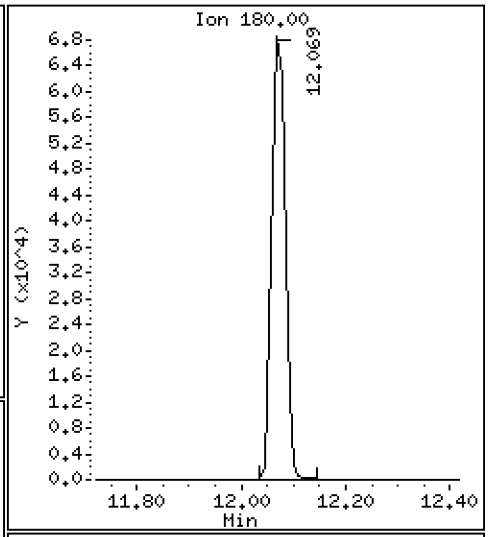
Concentration: 4.520 ug/mL

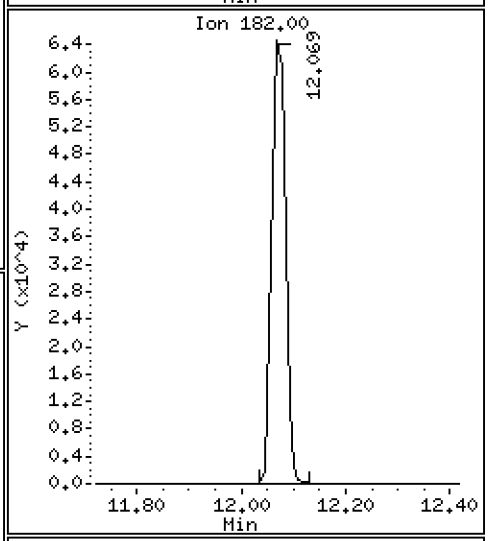


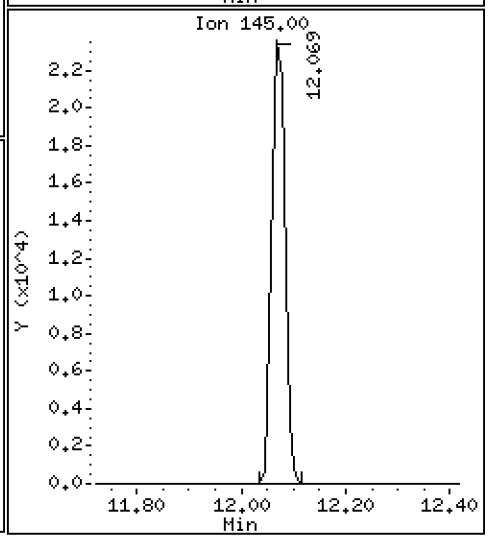












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

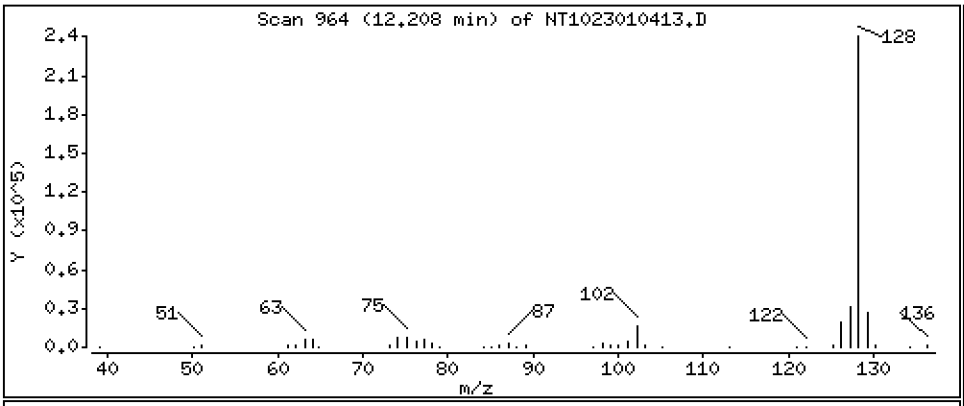
Operator: VTS

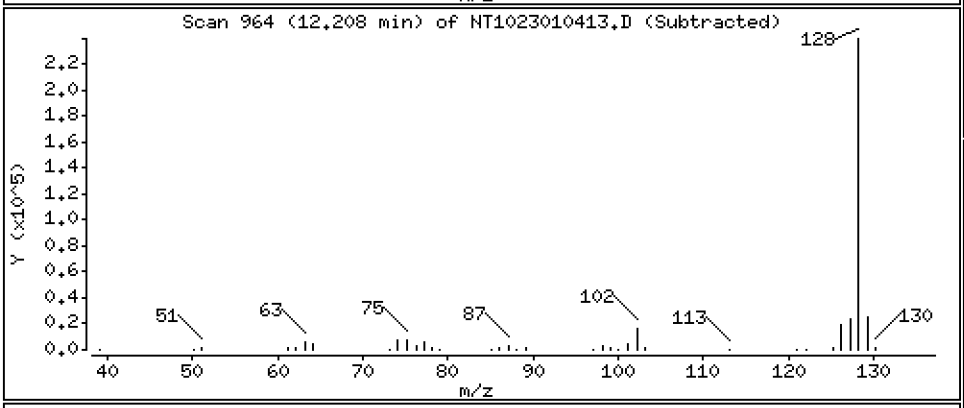
Column phase: ZB-5msi

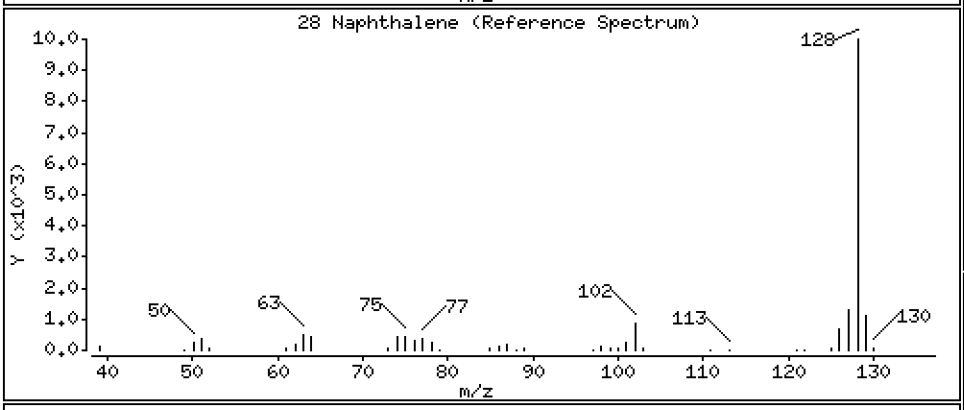
Column diameter: 0.25

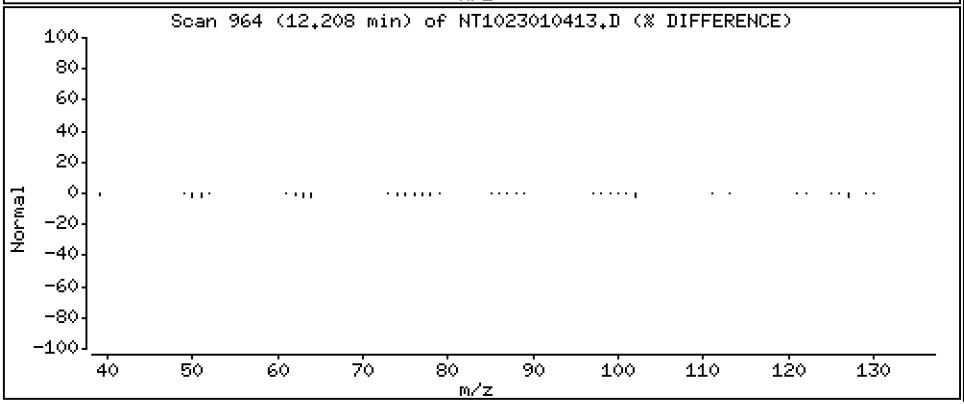
28 Naphthalene

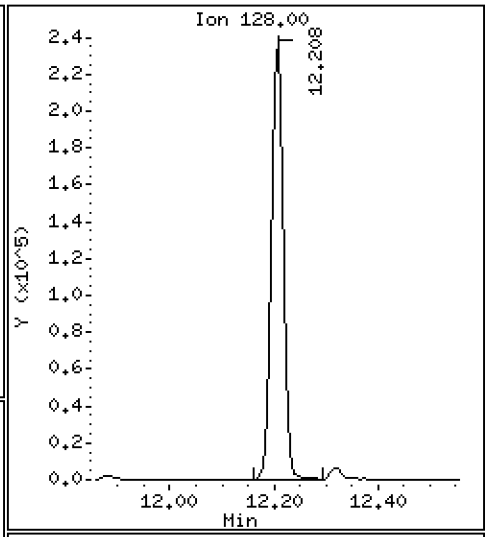
Concentration: 5.156 ug/mL

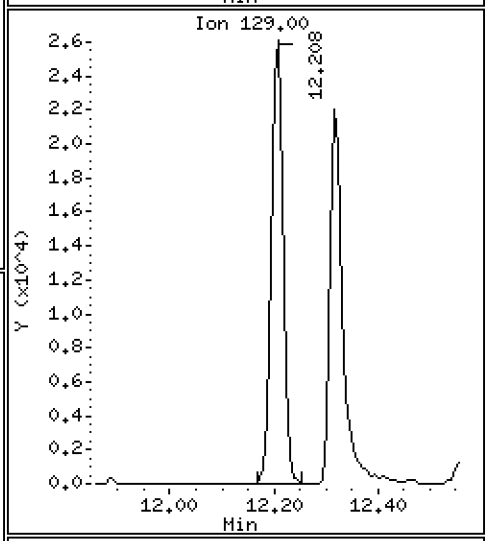


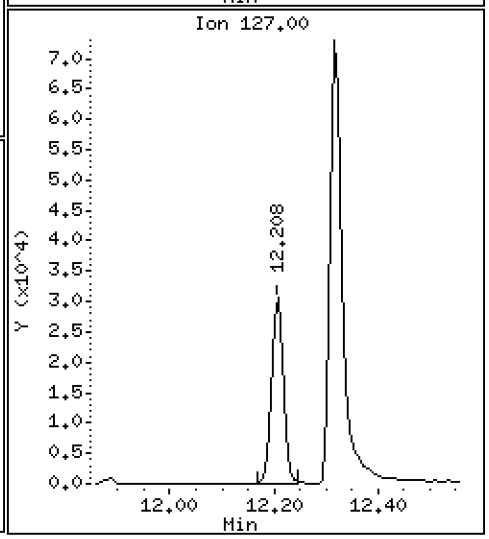












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

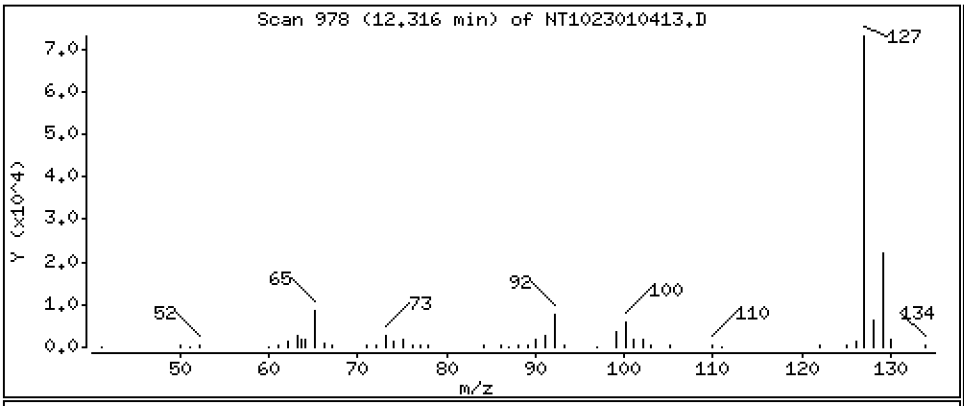
Operator: VTS

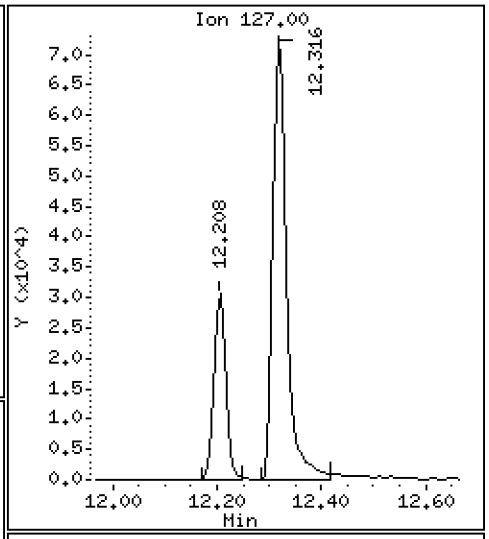
Column phase: ZB-5msi

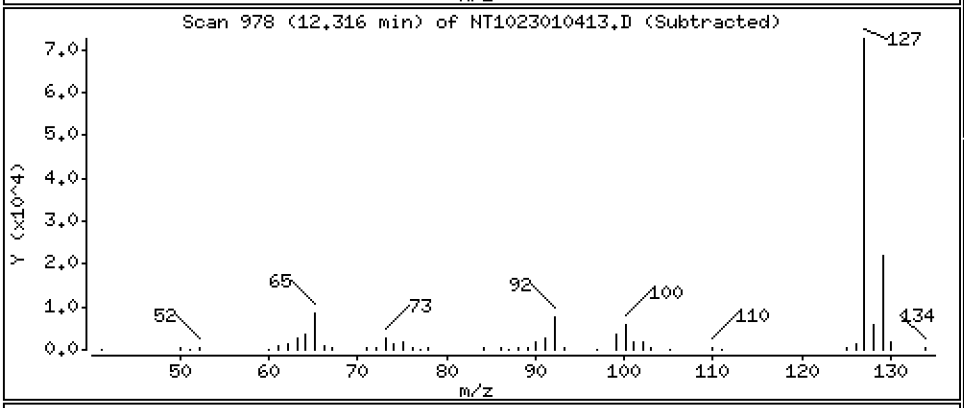
Column diameter: 0.25

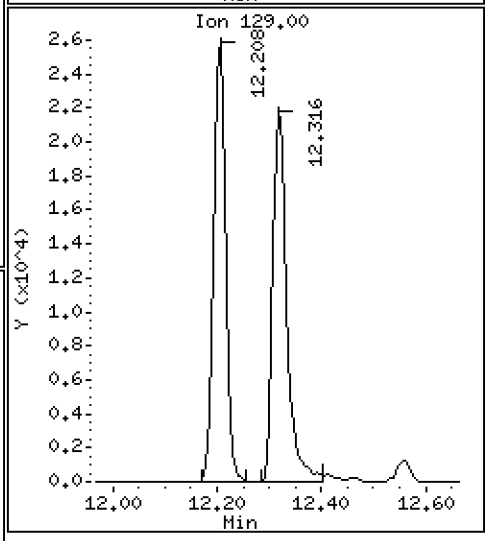
29 4-Chloroaniline

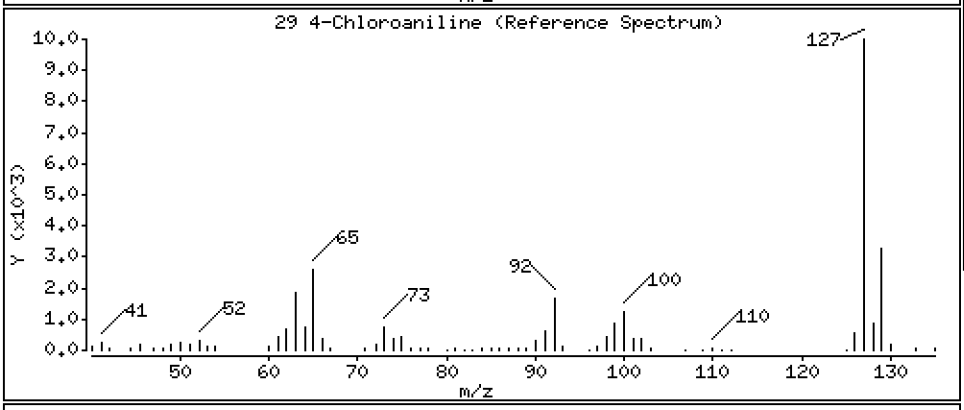
Concentration: 4.197 ug/mL

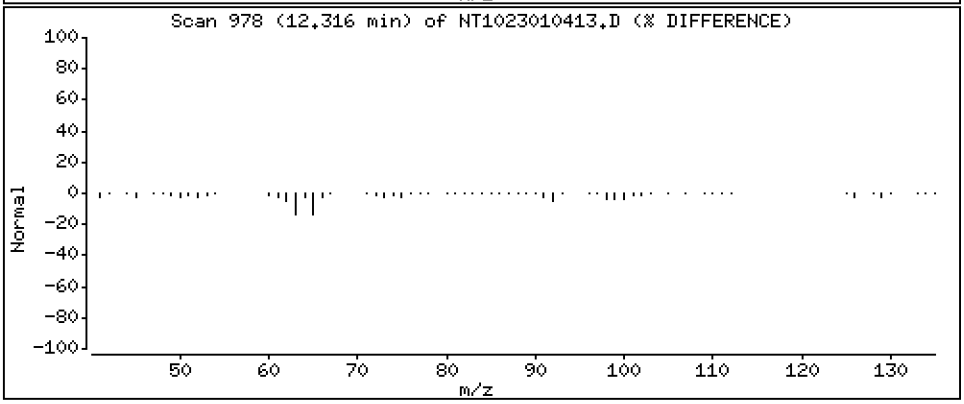












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

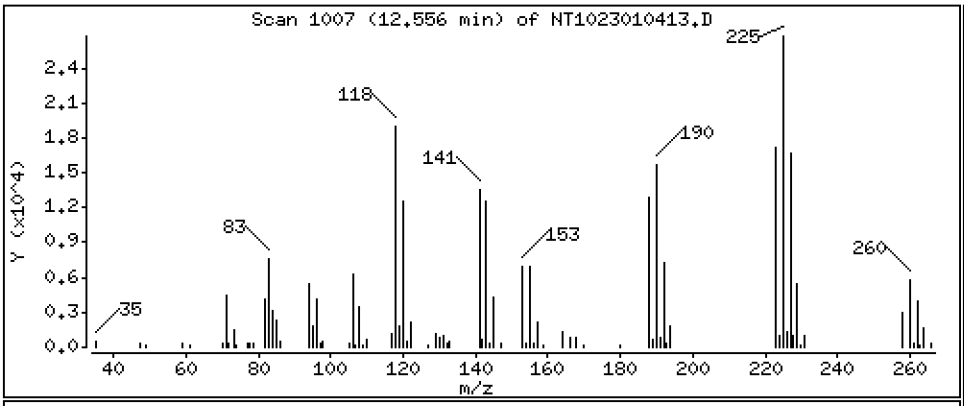
Operator: VTS

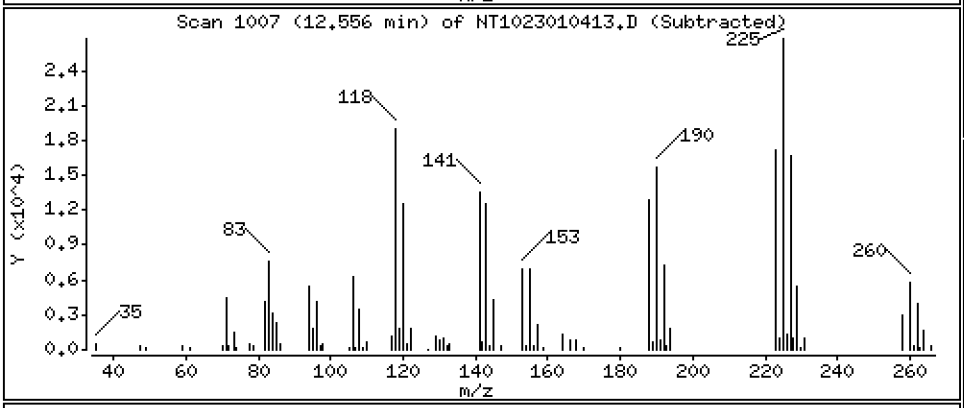
Column phase: ZB-5msi

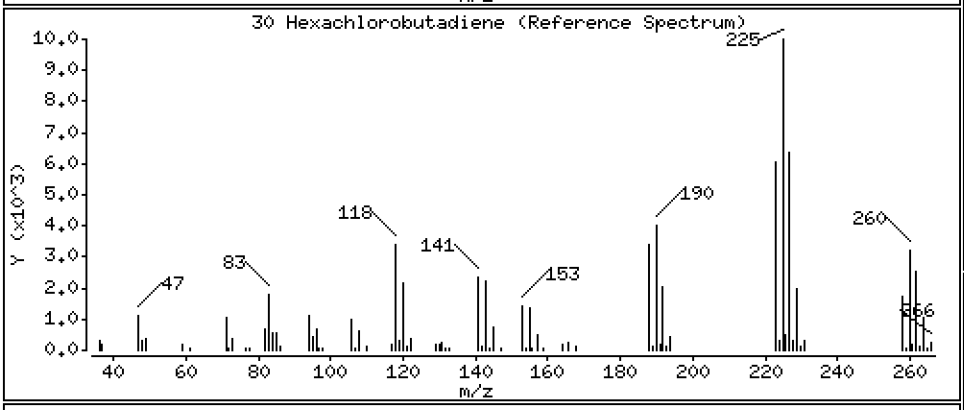
Column diameter: 0.25

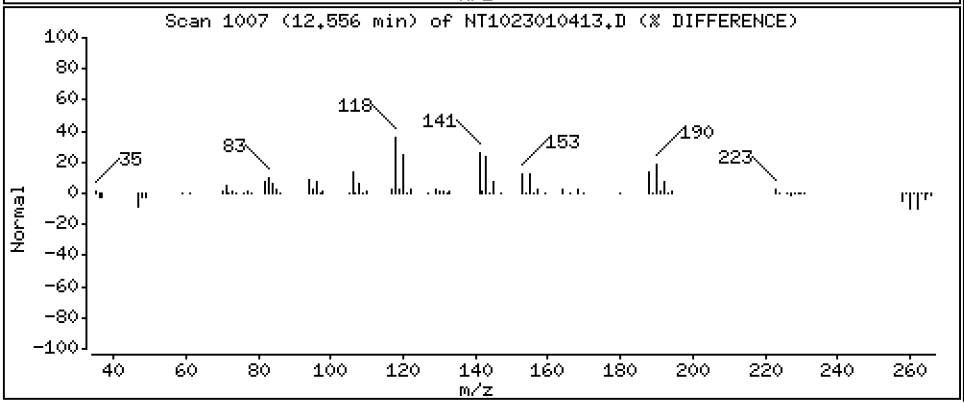
30 Hexachlorobutadiene

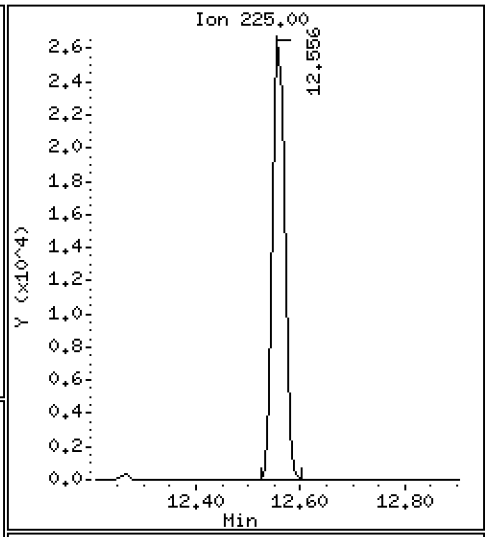
Concentration: 4.884 ug/mL

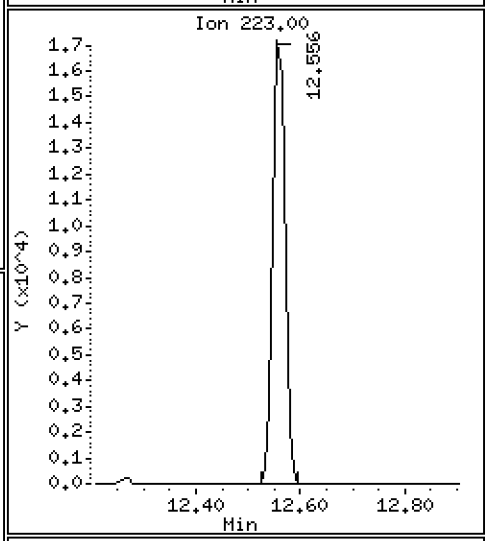


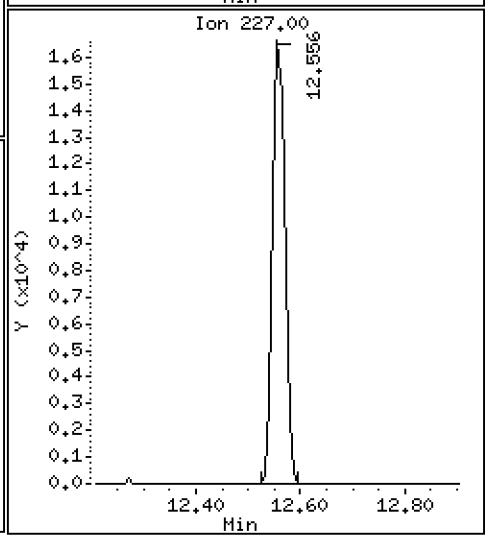












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

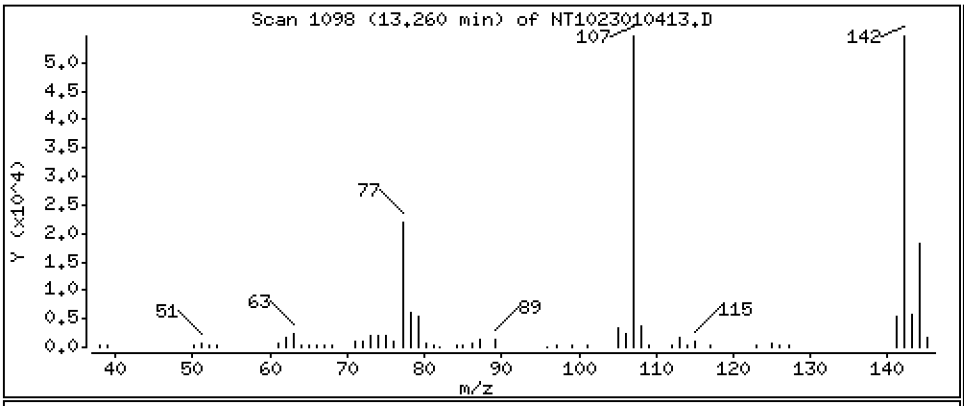
Operator: VTS

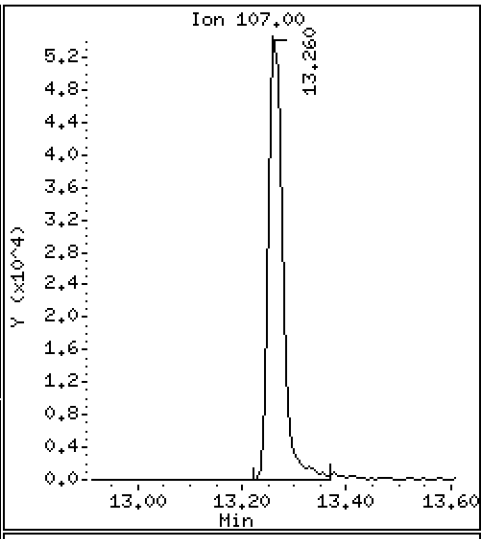
Column phase: ZB-5msi

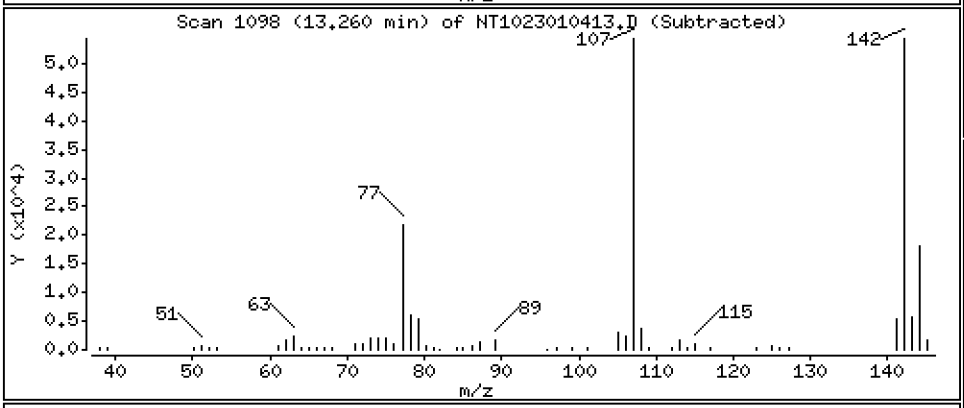
Column diameter: 0.25

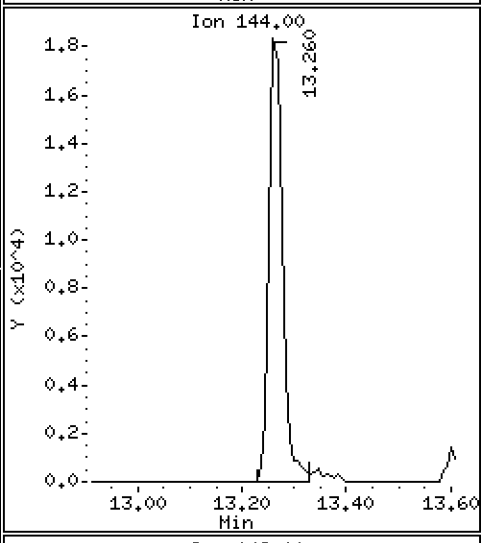
31 4-Chloro-3-methylphenol

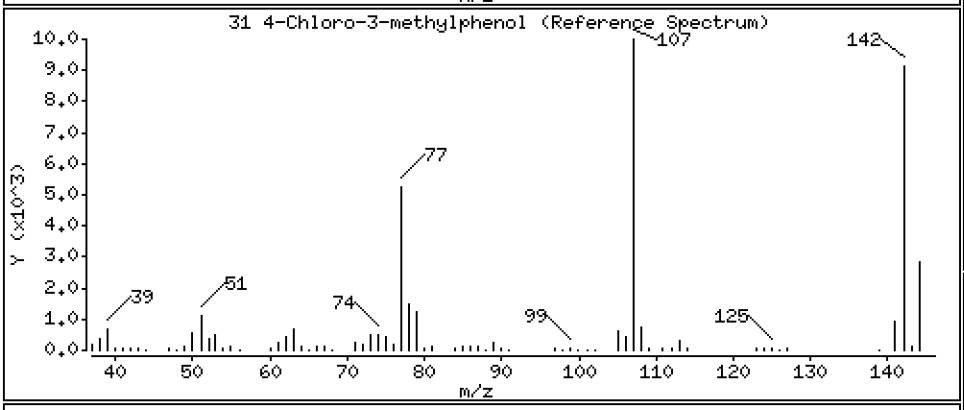
Concentration: 4.515 ug/mL

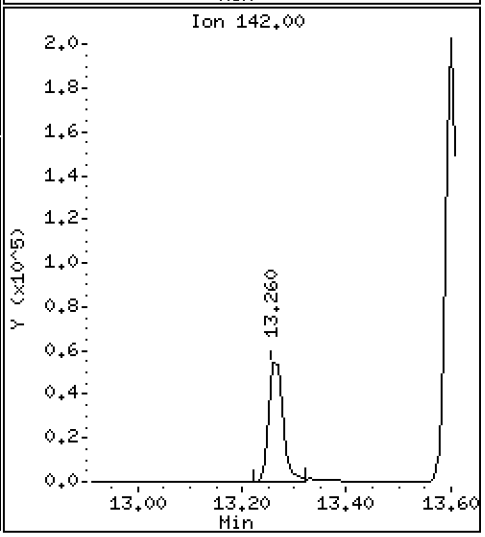


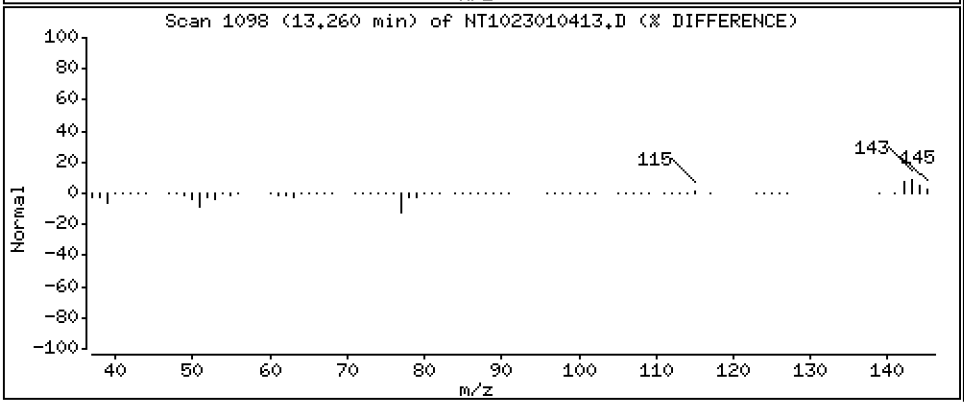












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

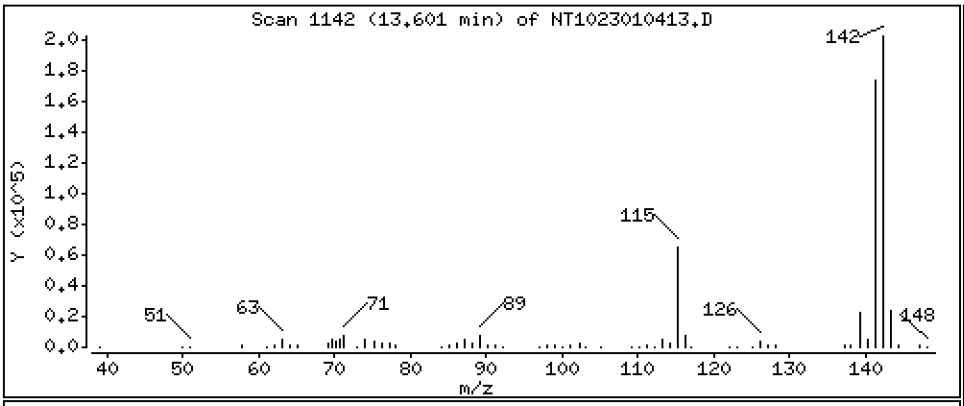
Operator: VTS

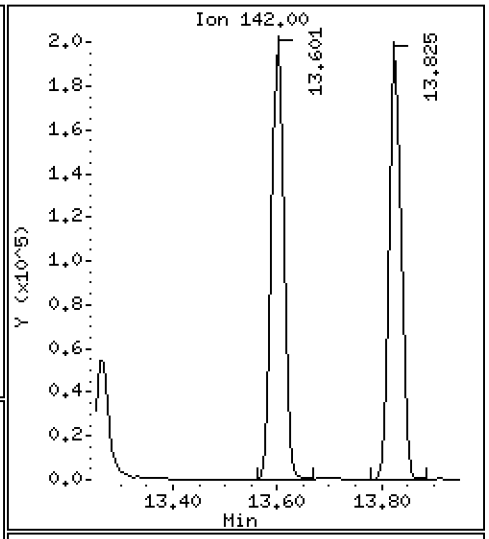
Column phase: ZB-5msi

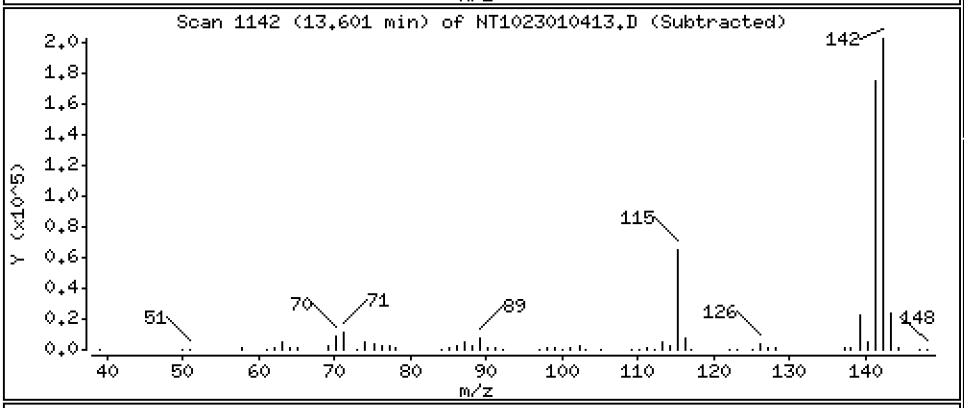
Column diameter: 0.25

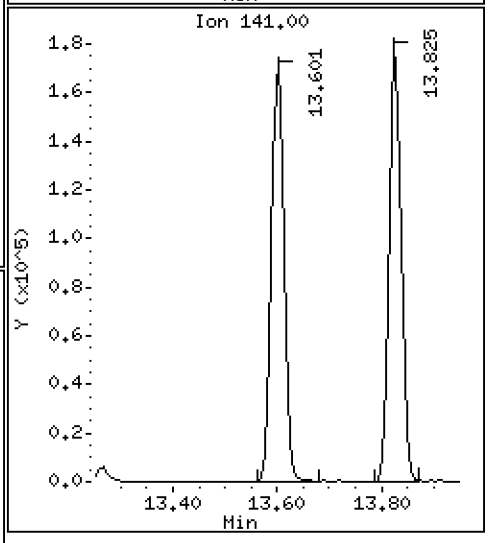
32 2-Methylnaphthalene

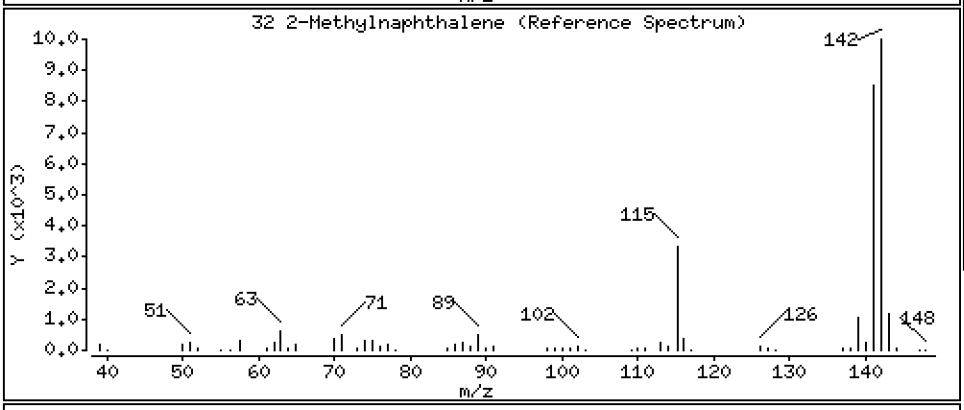
Concentration: 5.163 ug/mL

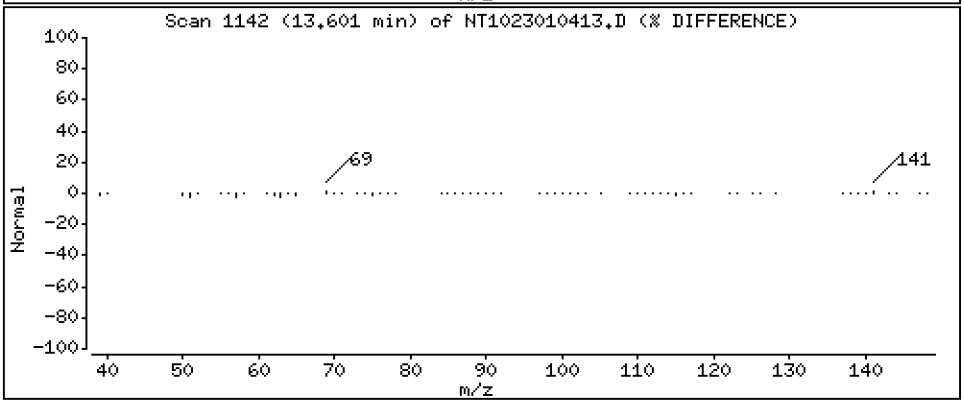












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

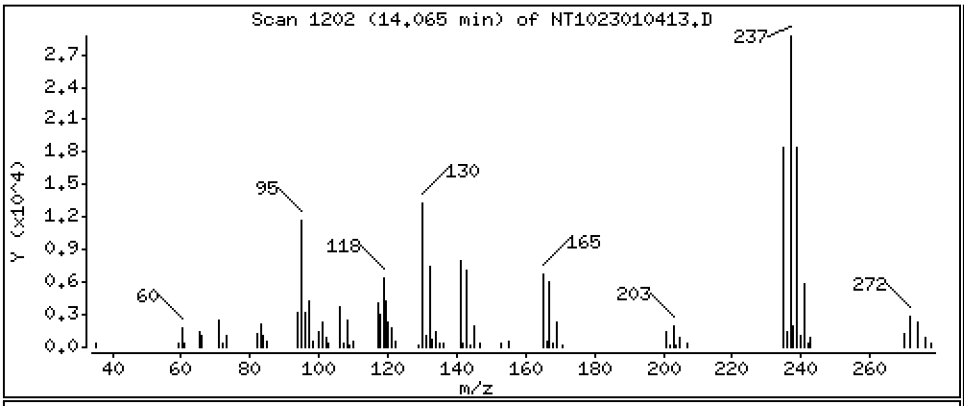
Operator: VTS

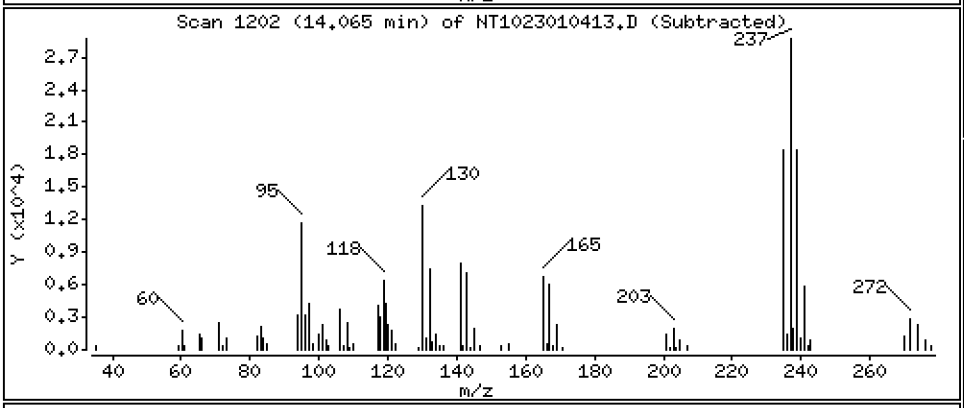
Column phase: ZB-5msi

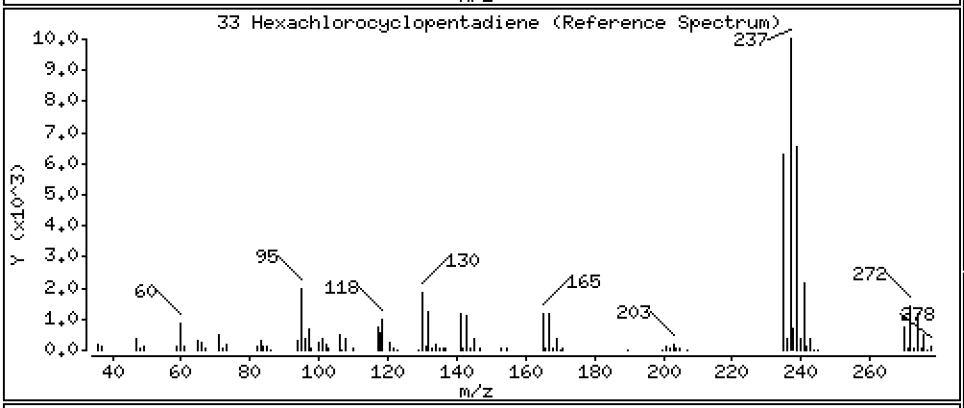
Column diameter: 0.25

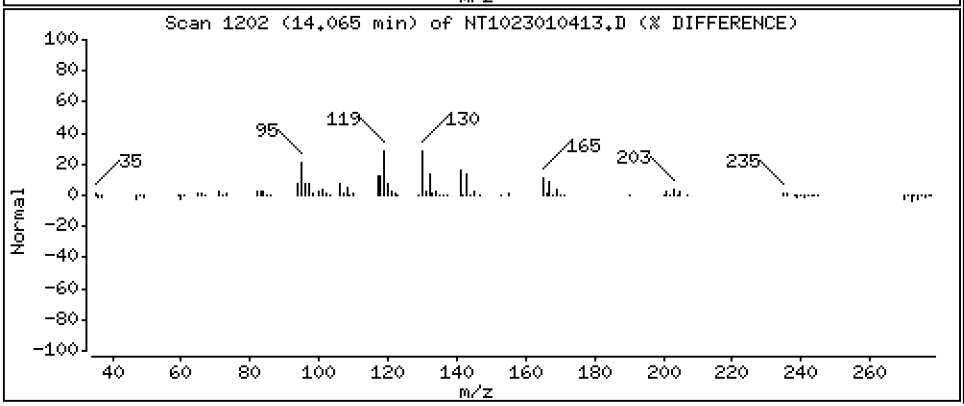
33 Hexachlorocyclopentadiene

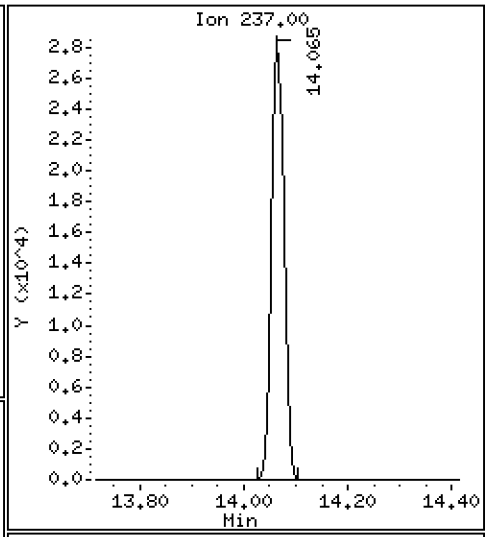
Concentration: 5.178 ug/mL

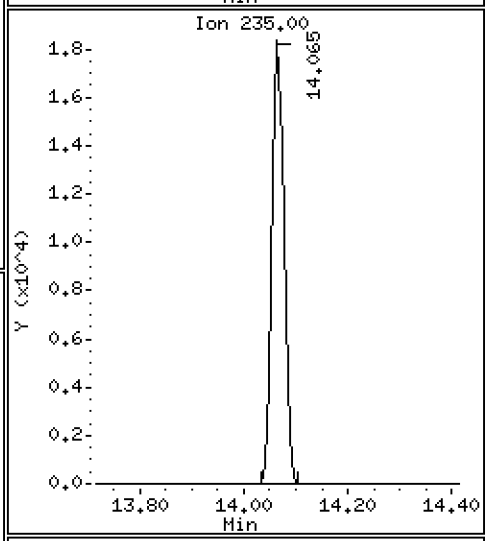


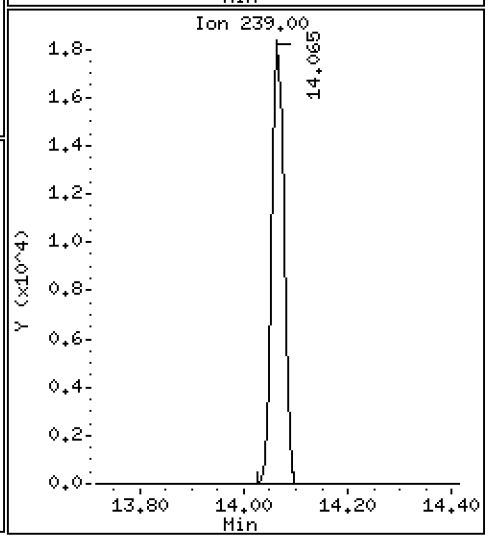












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

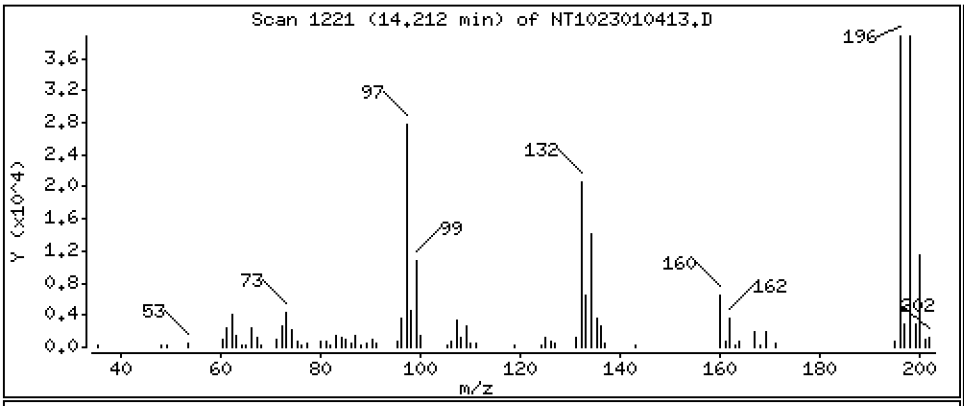
Operator: VTS

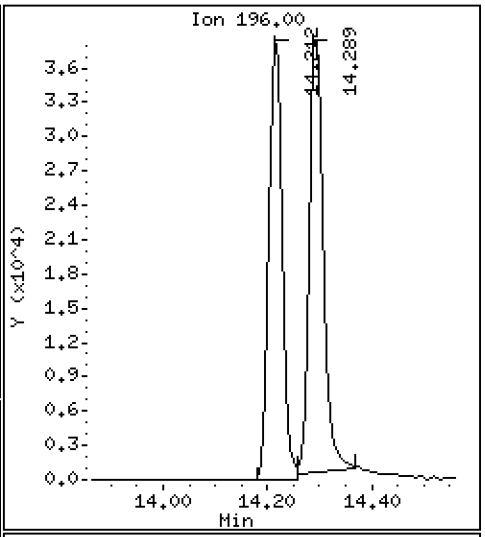
Column phase: ZB-5msi

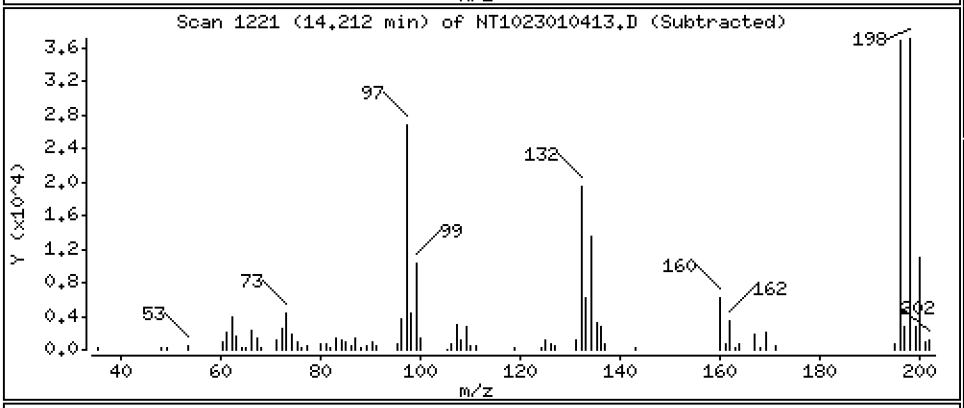
Column diameter: 0.25

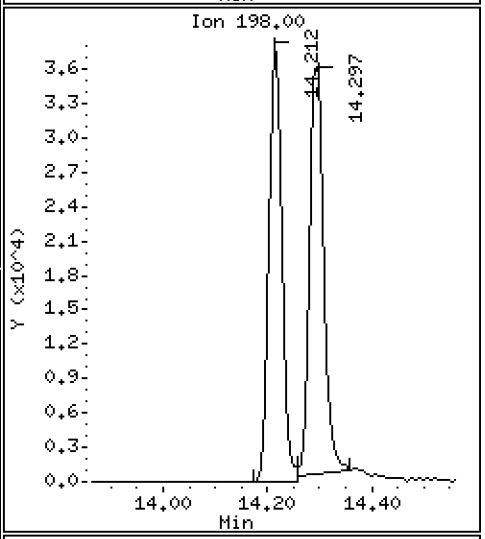
34 2,4,6-Trichlorophenol

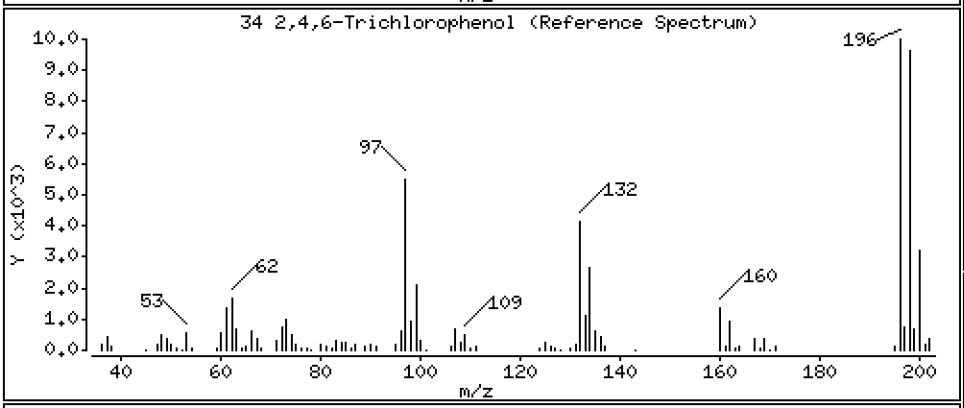
Concentration: 4.948 ug/mL

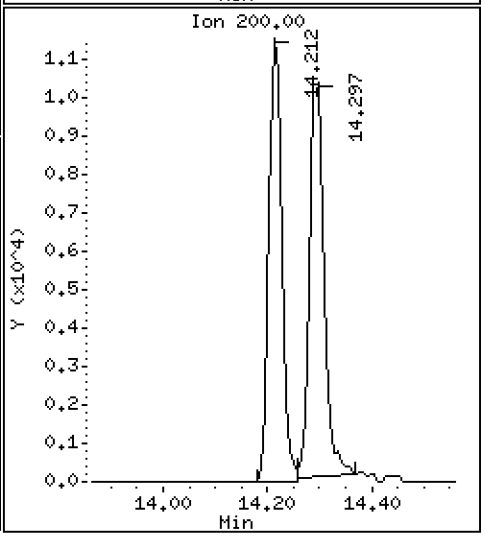


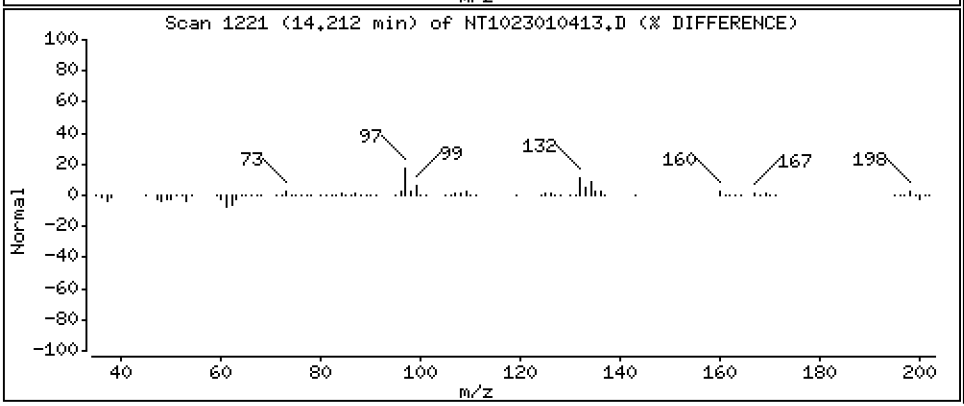












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

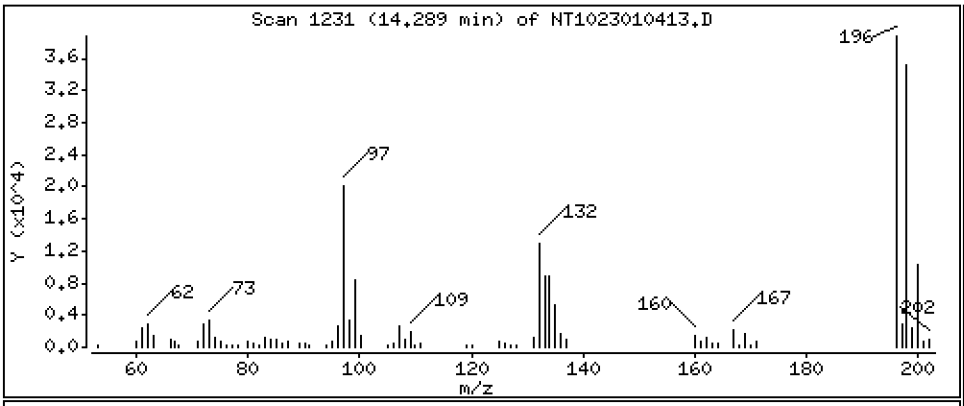
Operator: VTS

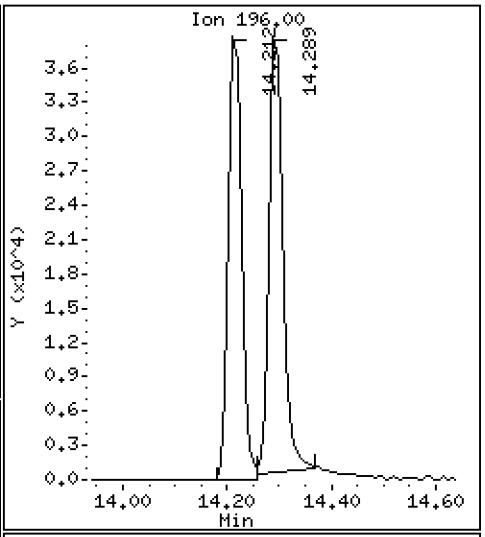
Column phase: ZB-5msi

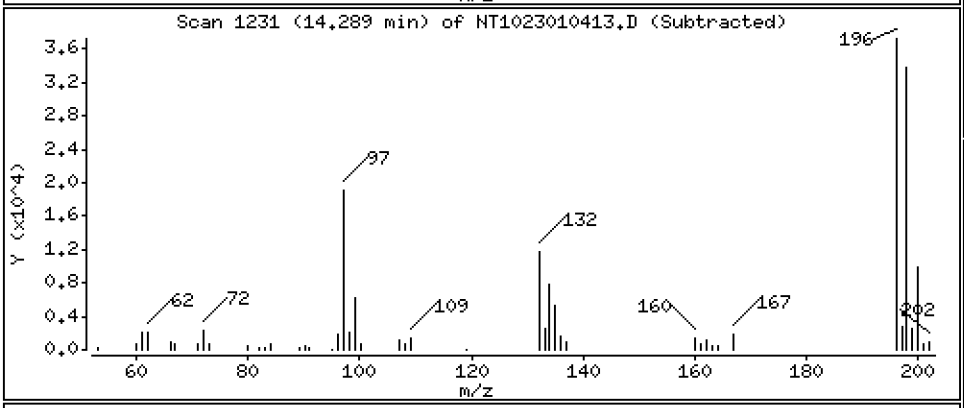
Column diameter: 0.25

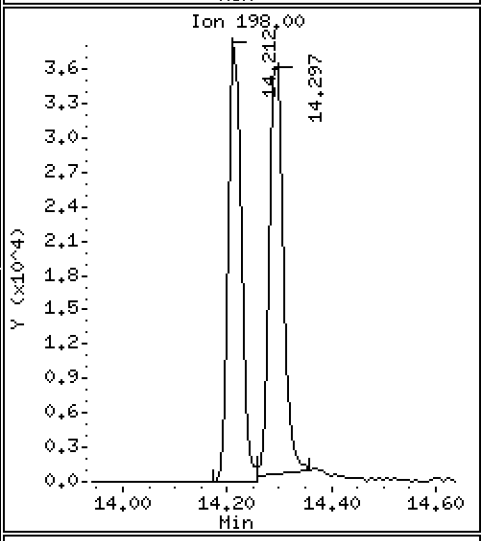
35 2,4,5-Trichlorophenol

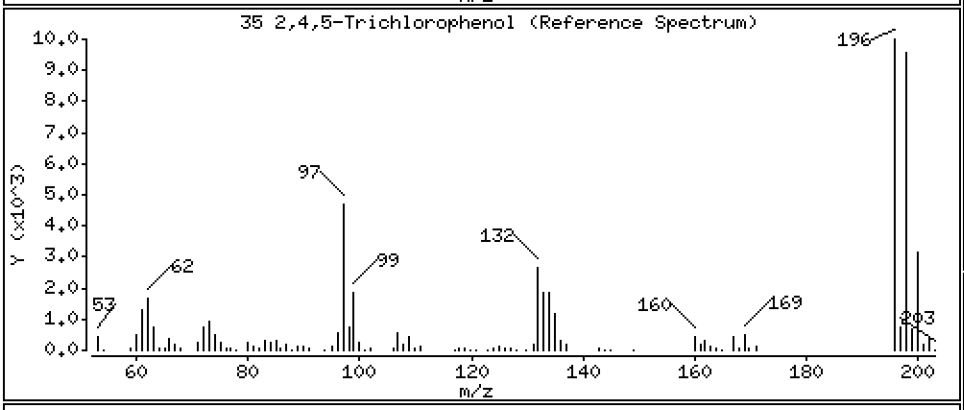
Concentration: 4.607 ug/mL

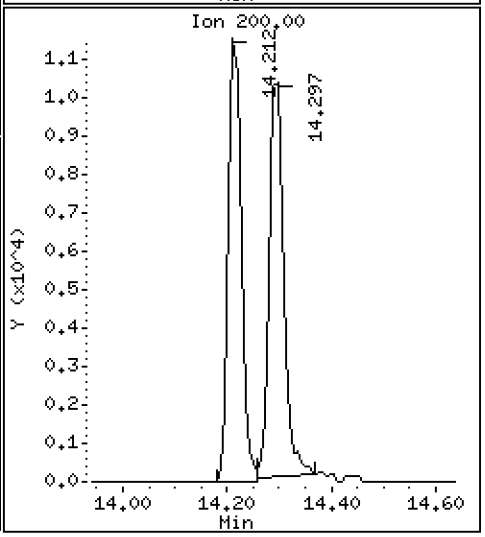


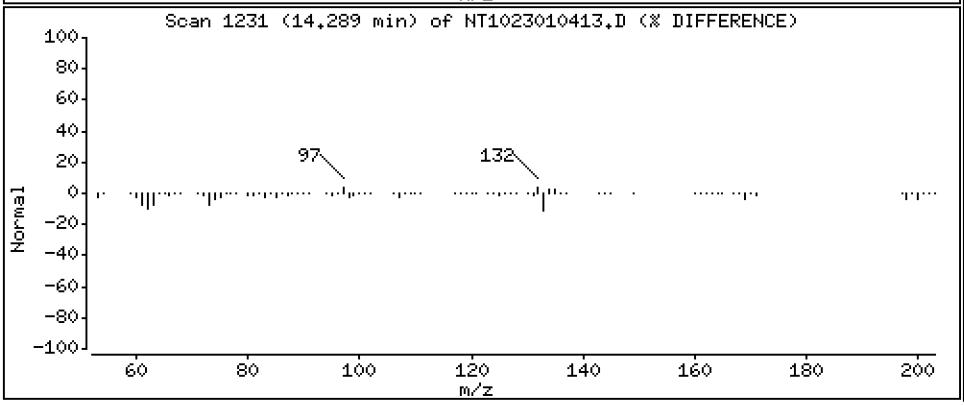












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

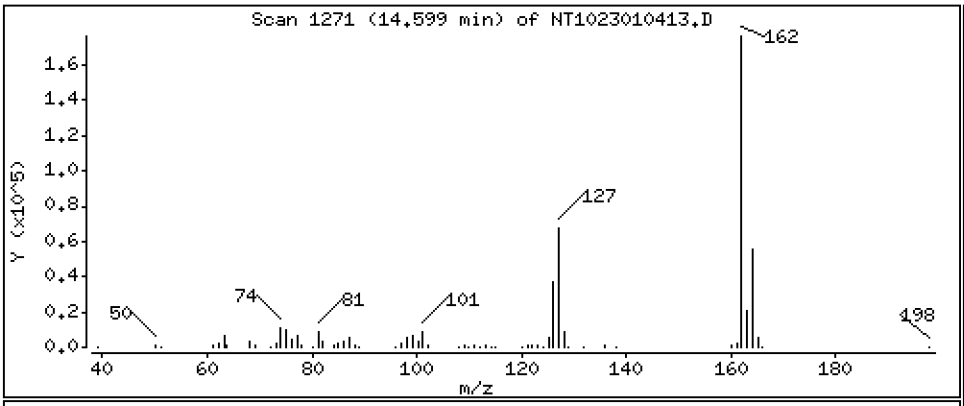
Operator: VTS

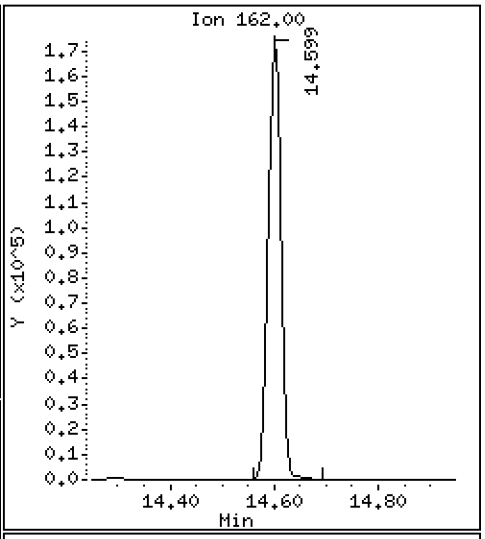
Column phase: ZB-5msi

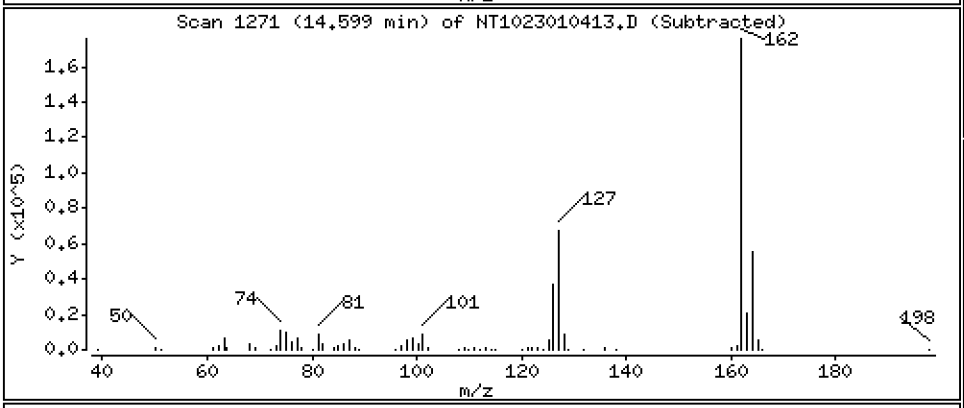
Column diameter: 0.25

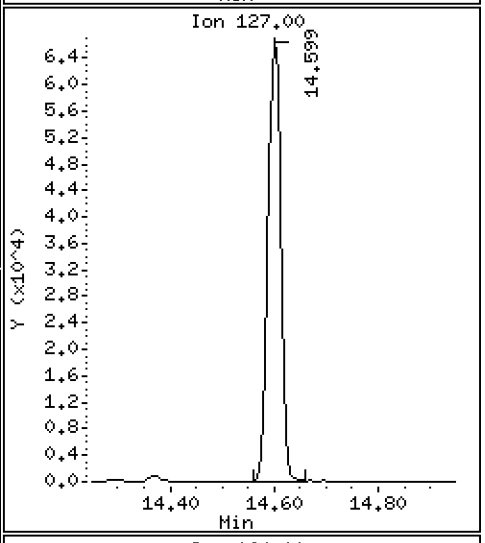
37 2-Chloronaphthalene

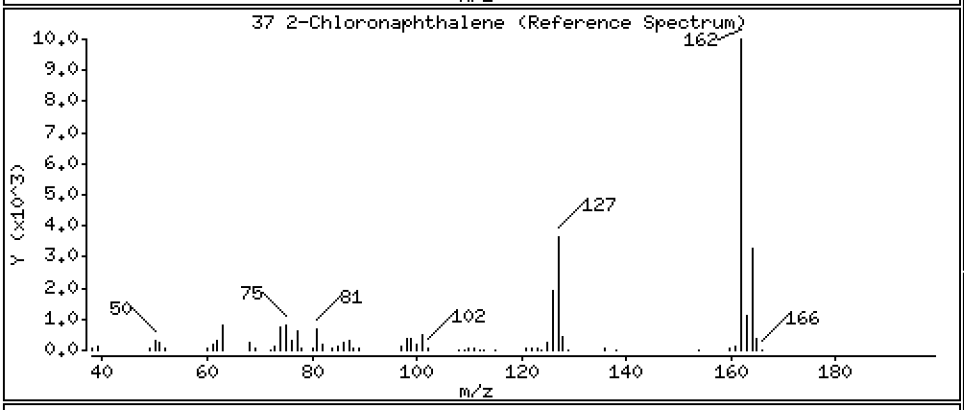
Concentration: 5.379 ug/mL

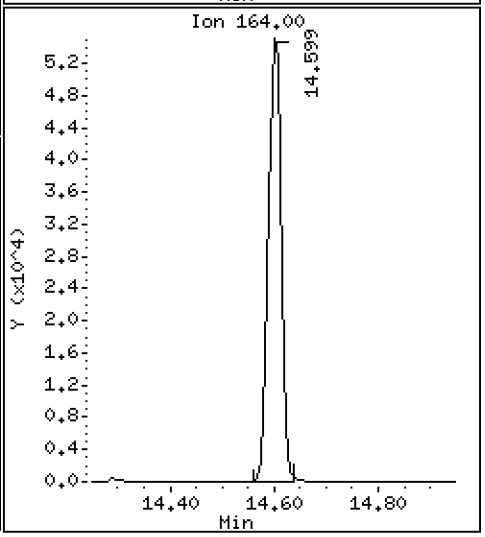


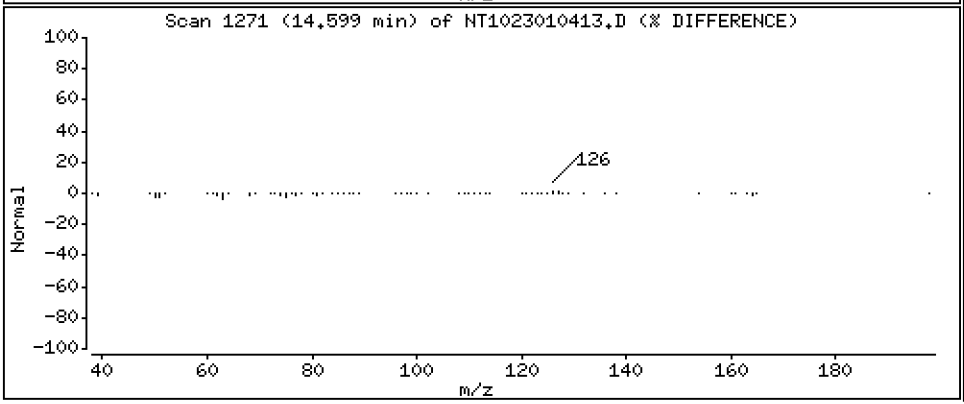












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

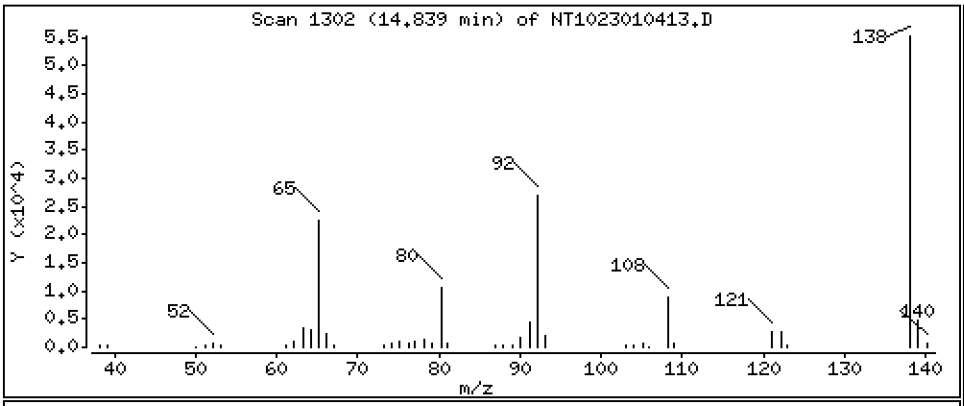
Operator: VTS

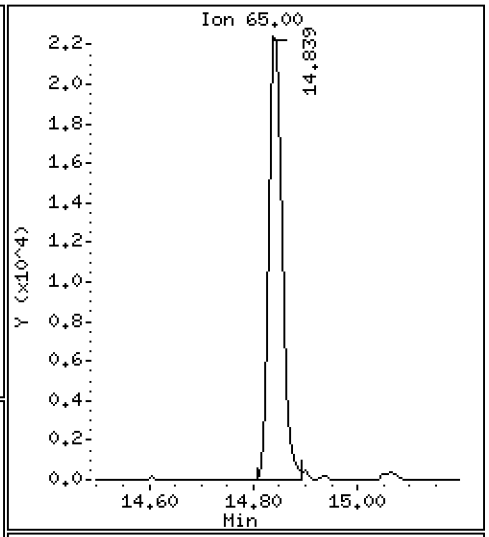
Column phase: ZB-5msi

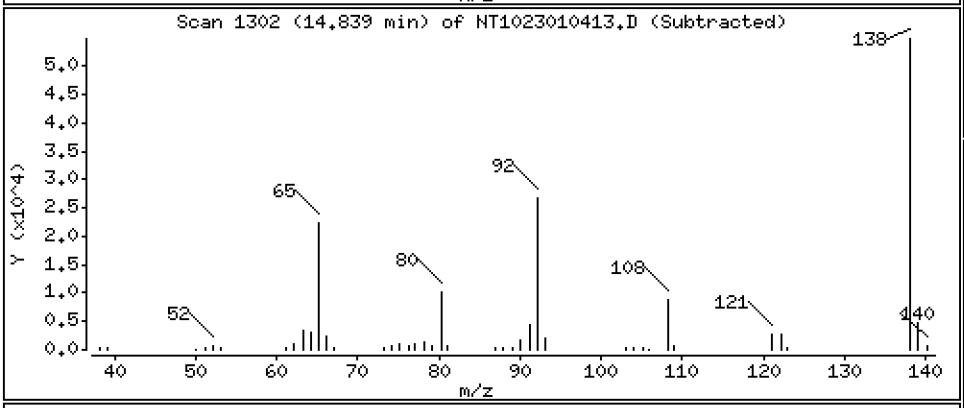
Column diameter: 0.25

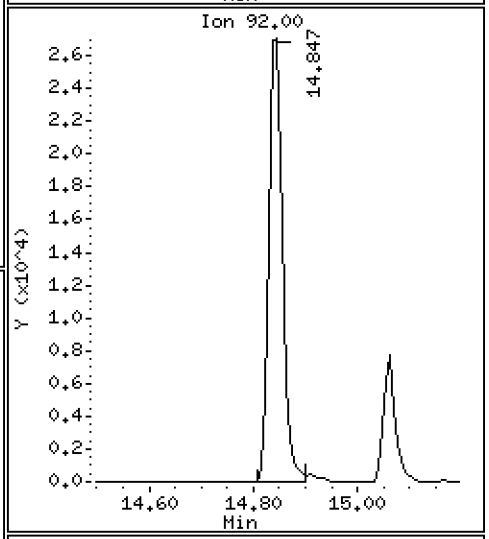
38 2-Nitroaniline

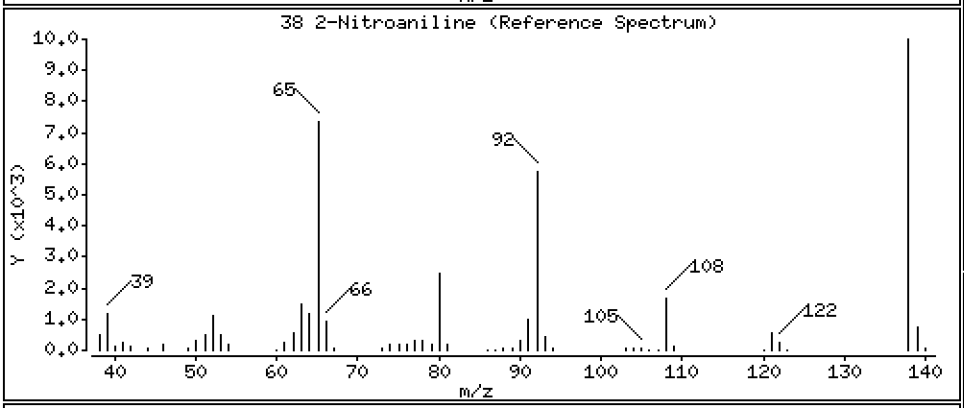
Concentration: 5.391 ug/mL

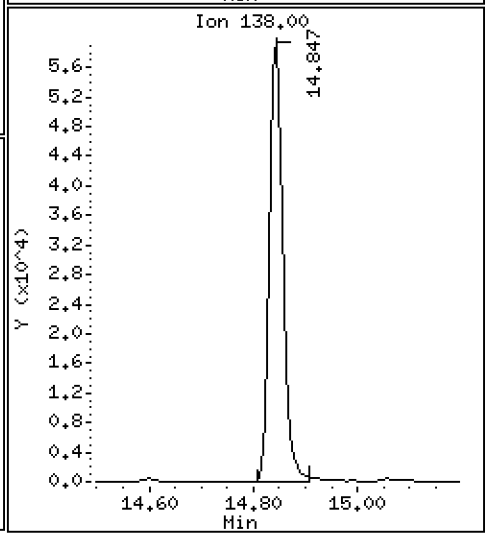


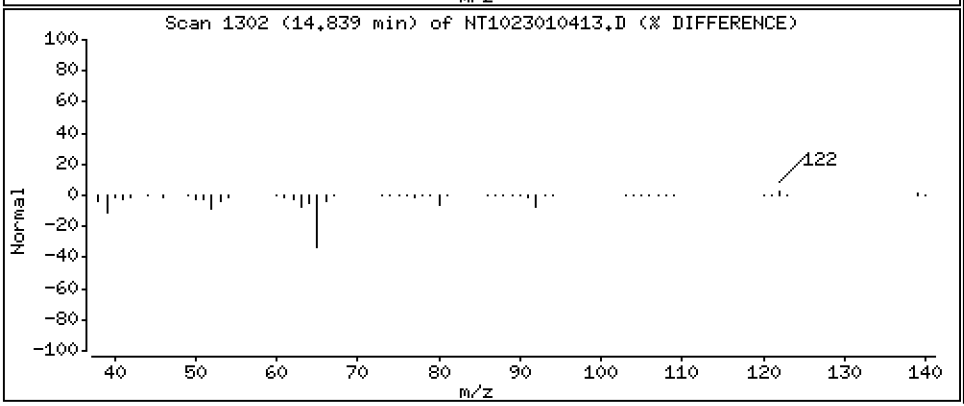












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

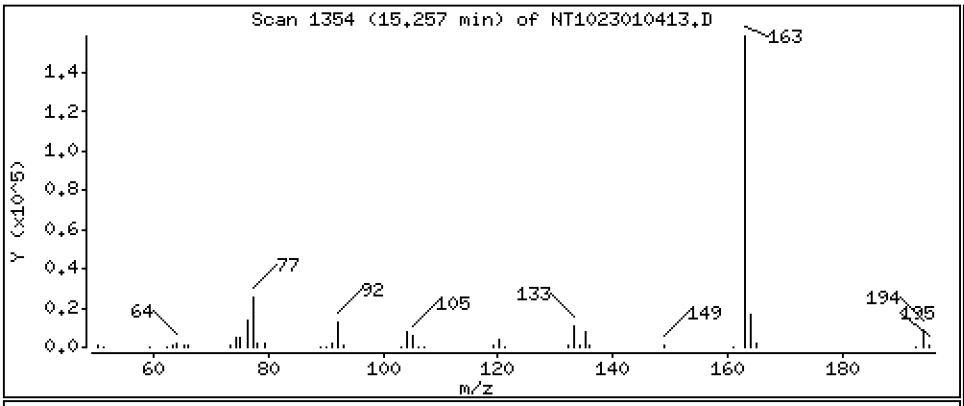
Operator: VTS

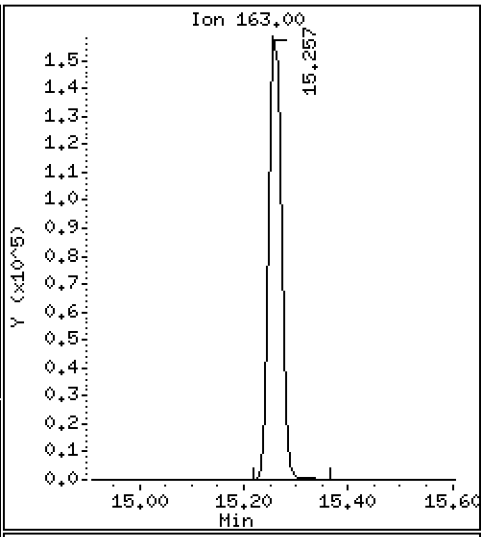
Column phase: ZB-5msi

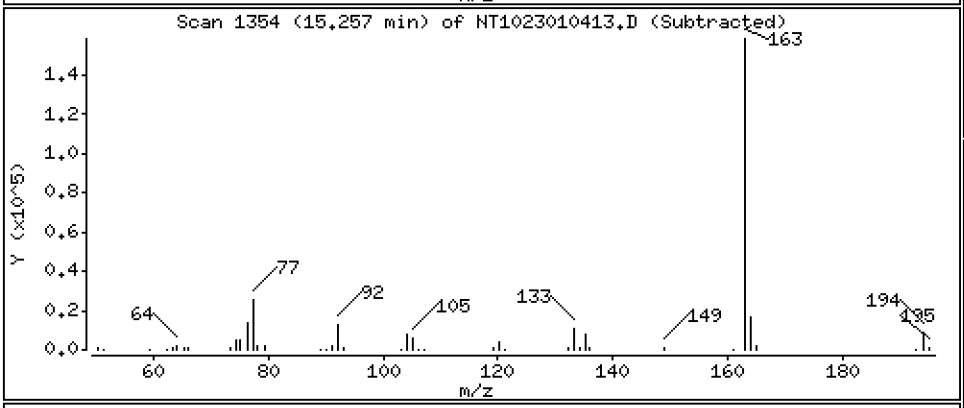
Column diameter: 0.25

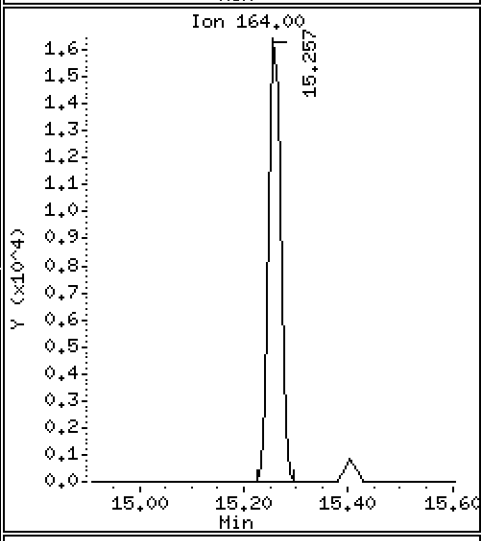
39 Dimethylphthalate

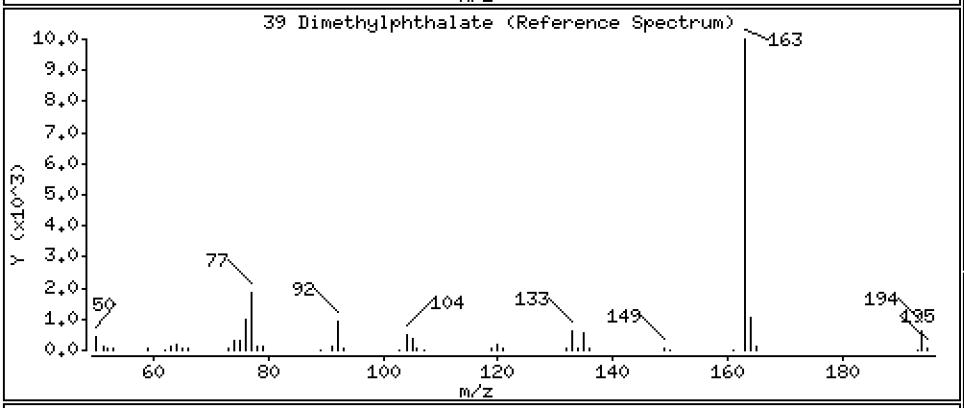
Concentration: 5.362 ug/mL

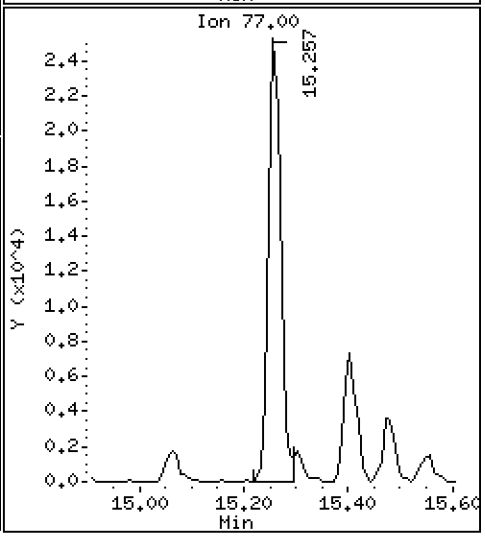


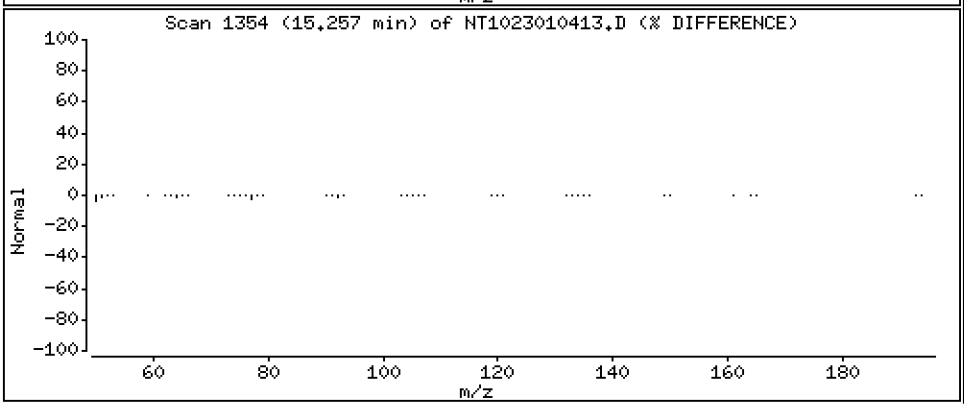












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

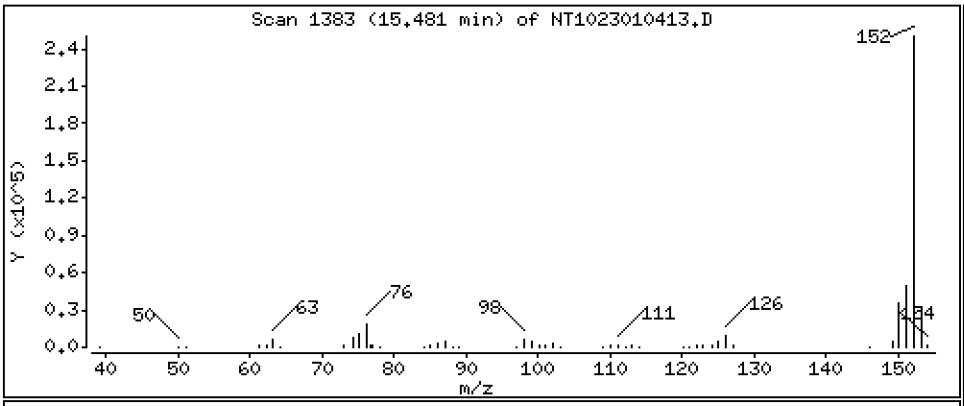
Operator: VTS

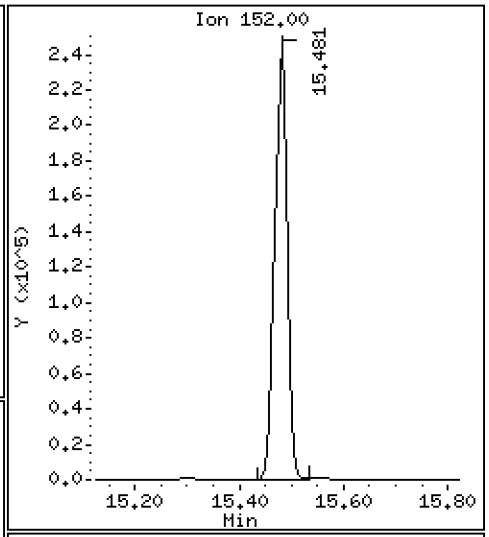
Column phase: ZB-5msi

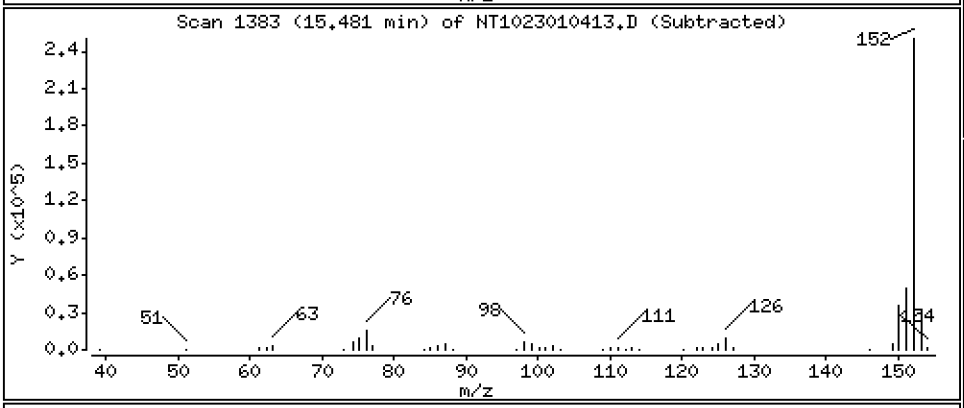
Column diameter: 0.25

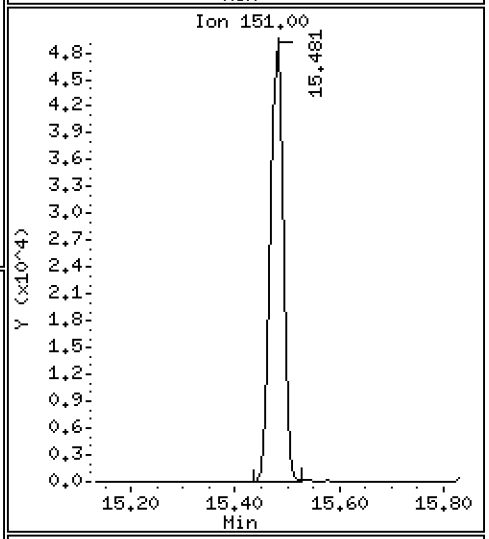
40 Acenaphthylene

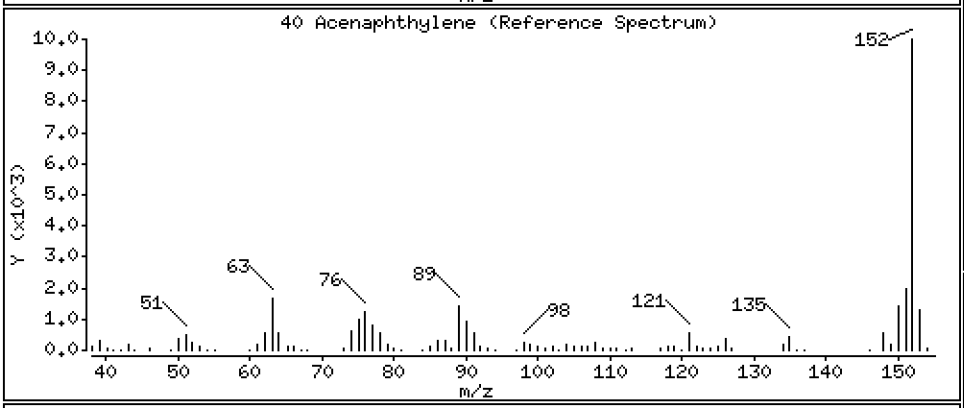
Concentration: 5.275 ug/mL

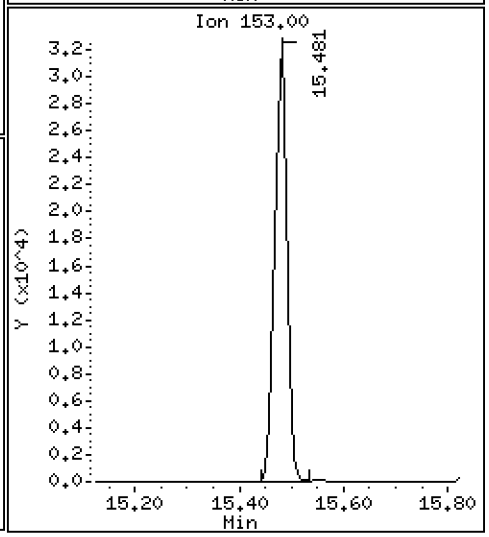


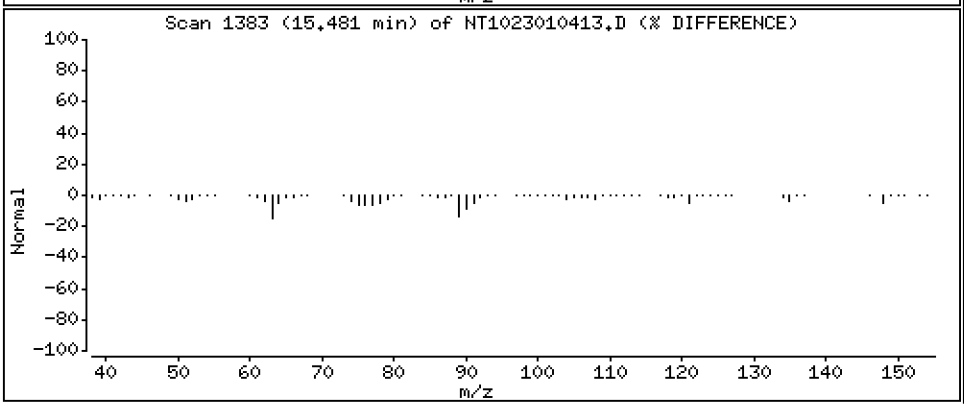












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

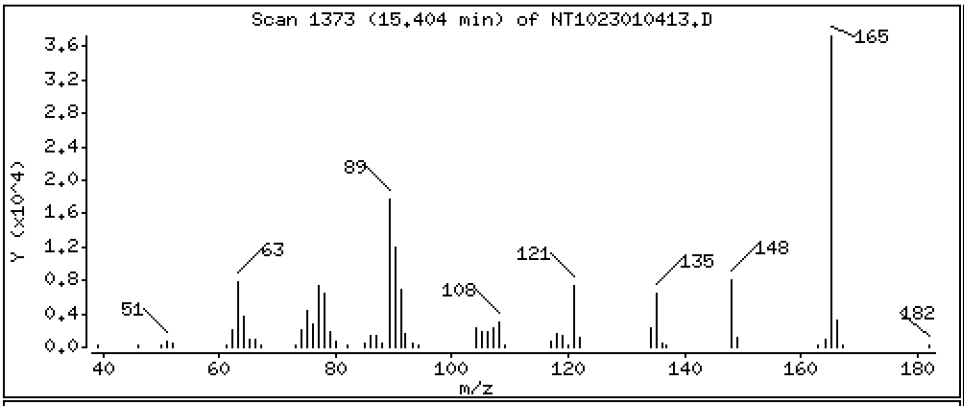
Operator: VTS

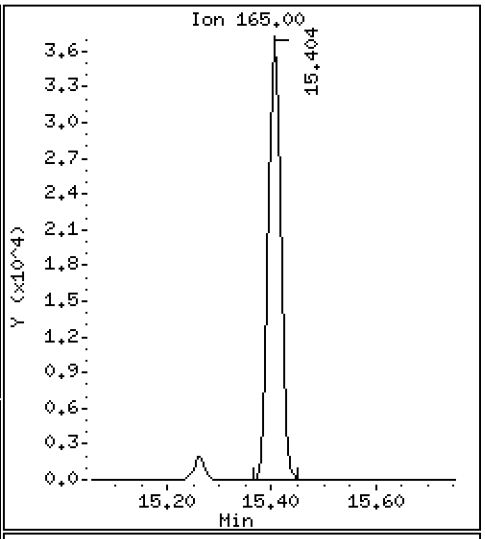
Column phase: ZB-5msi

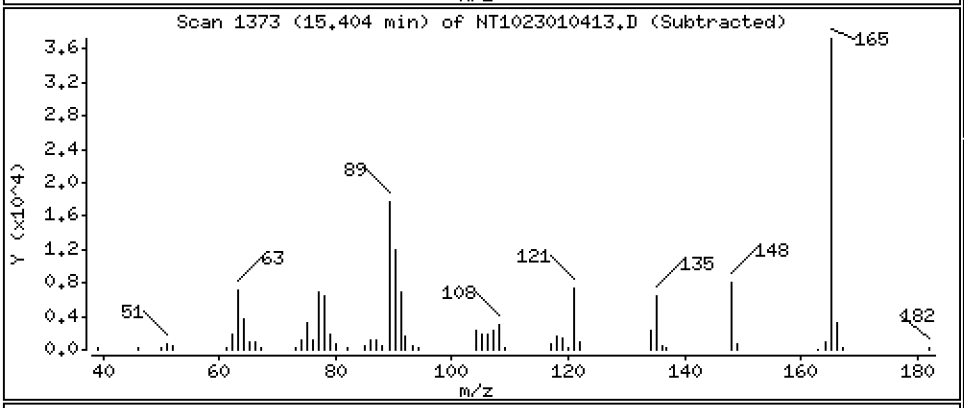
Column diameter: 0.25

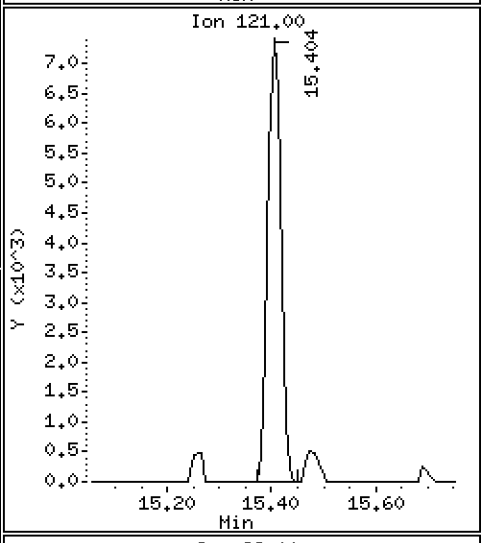
41 2,6-Dinitrotoluene

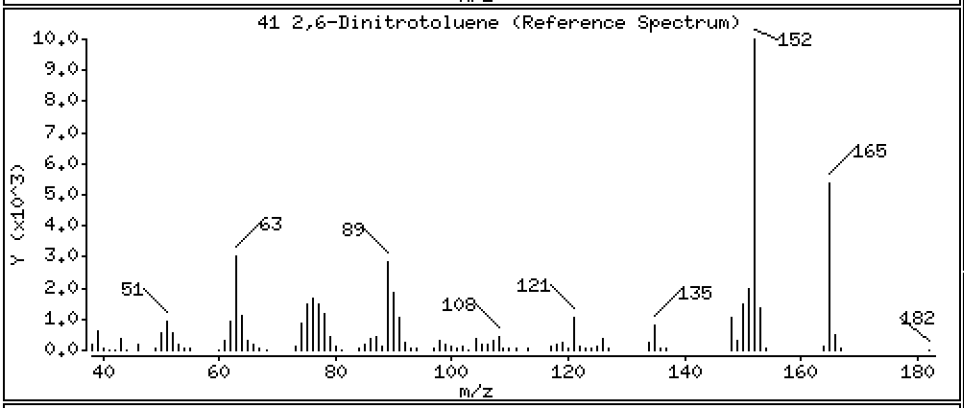
Concentration: 5.450 ug/mL

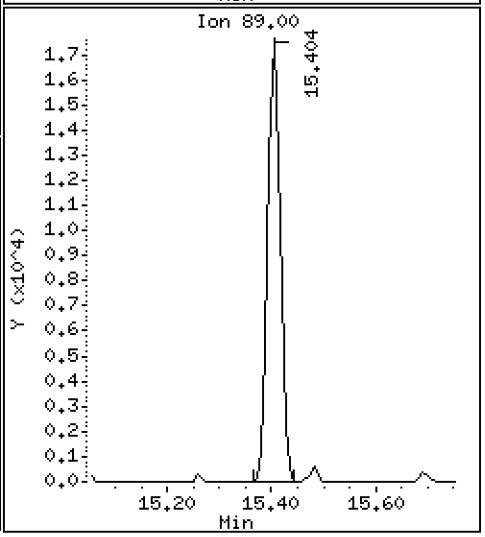


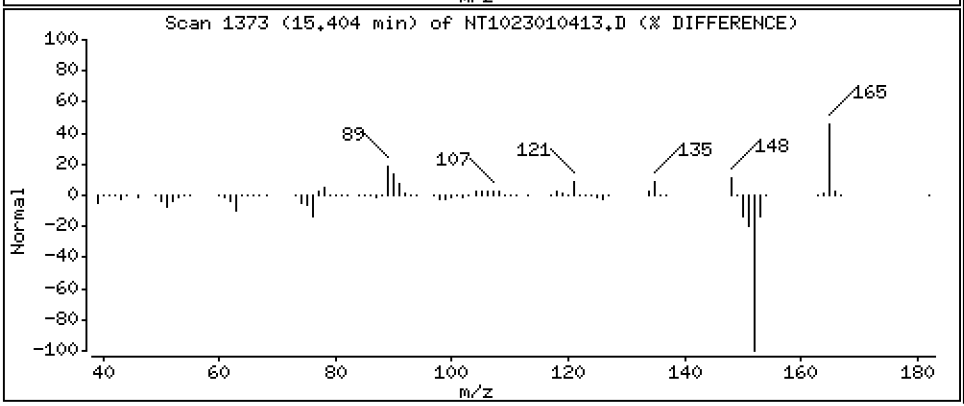












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

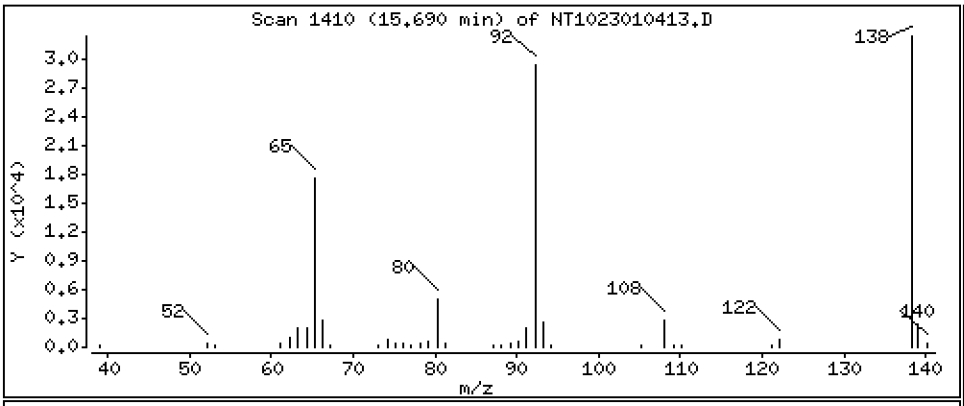
Operator: VTS

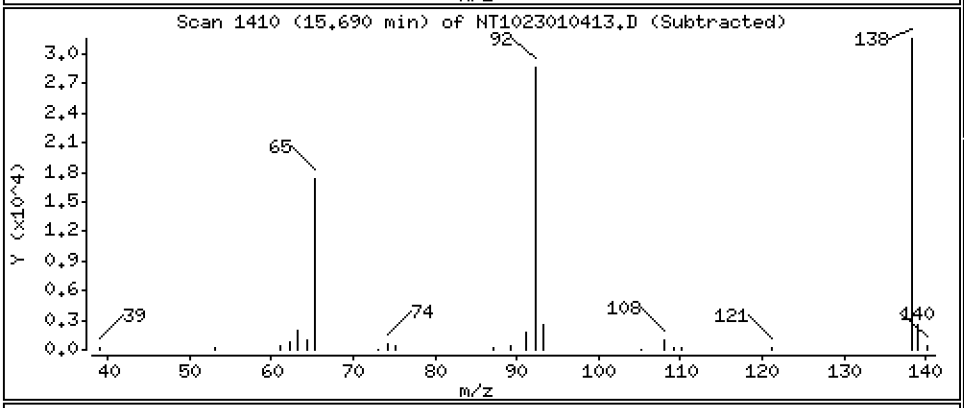
Column phase: ZB-5msi

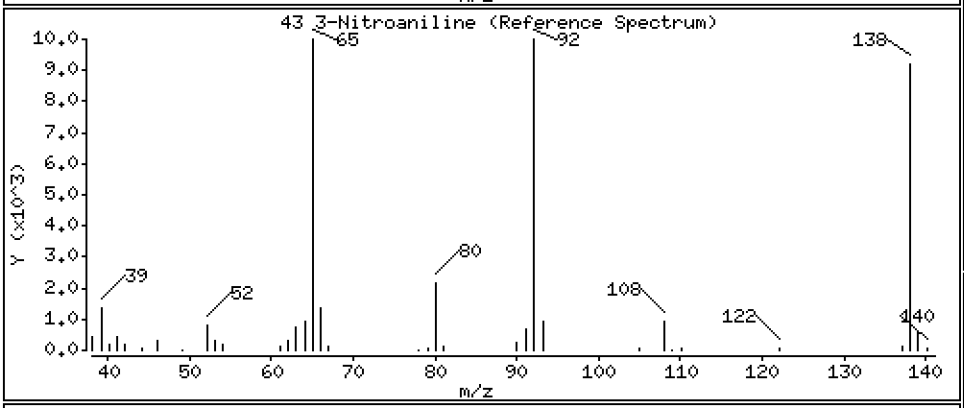
Column diameter: 0.25

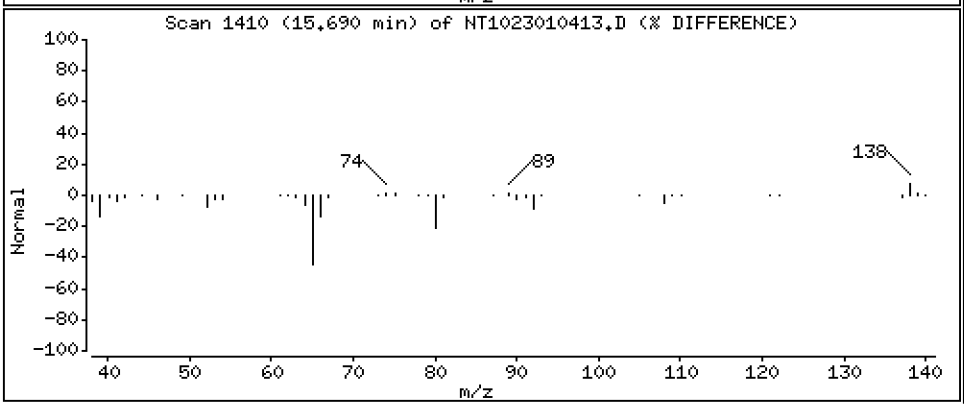
43 3-Nitroaniline

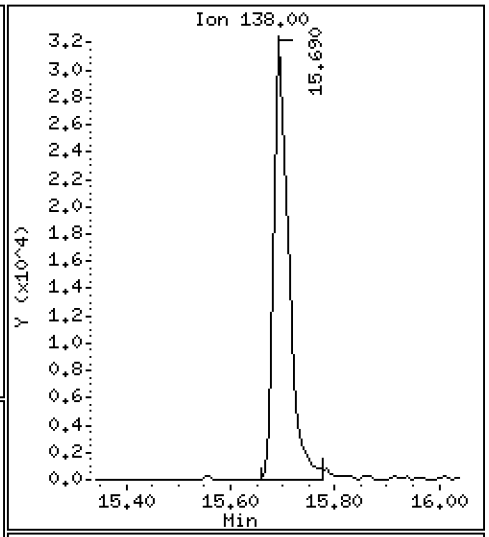
Concentration: 6.037 ug/mL

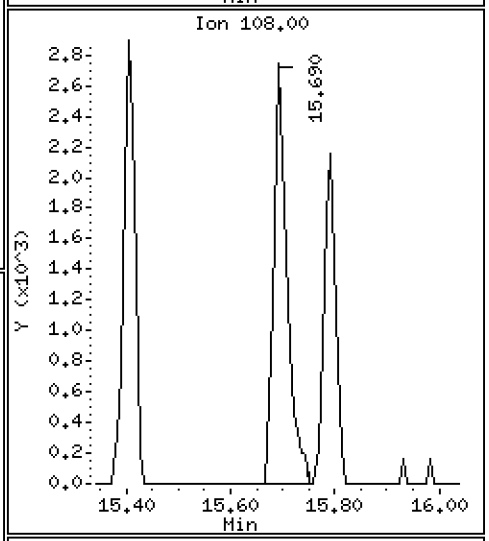


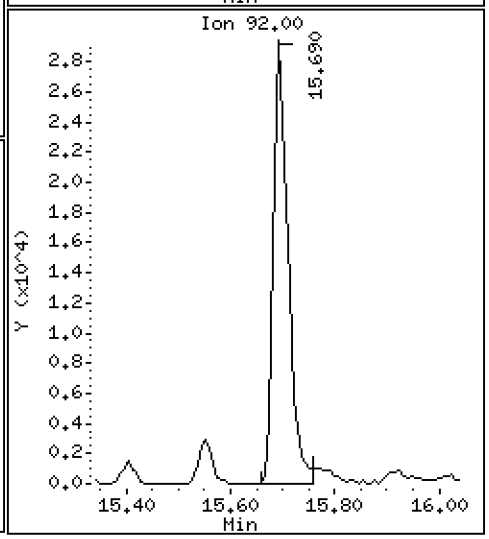












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

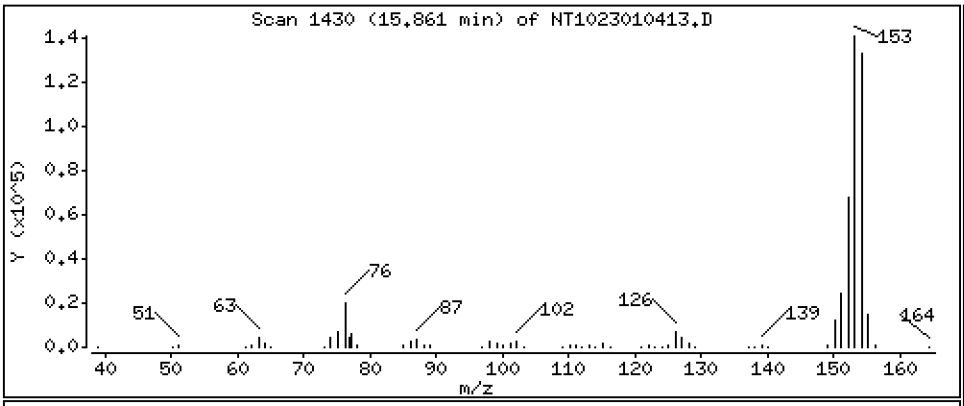
Operator: VTS

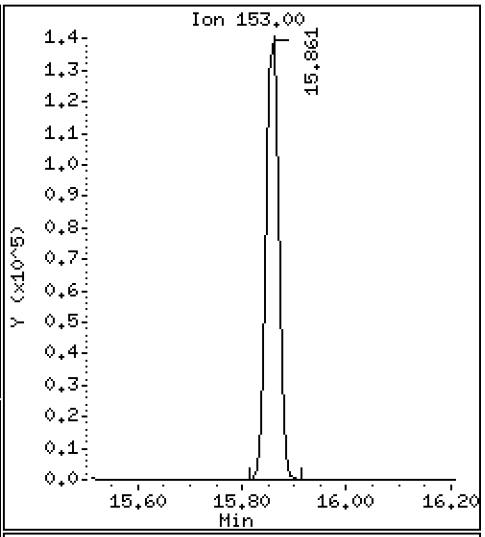
Column phase: ZB-5msi

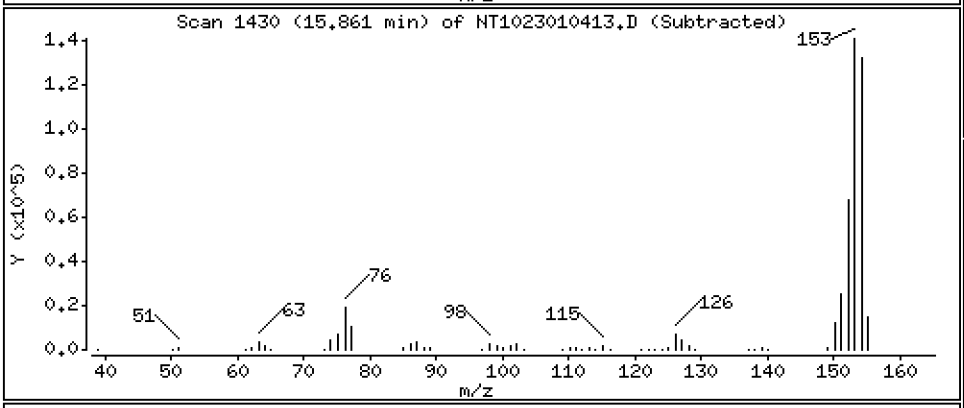
Column diameter: 0.25

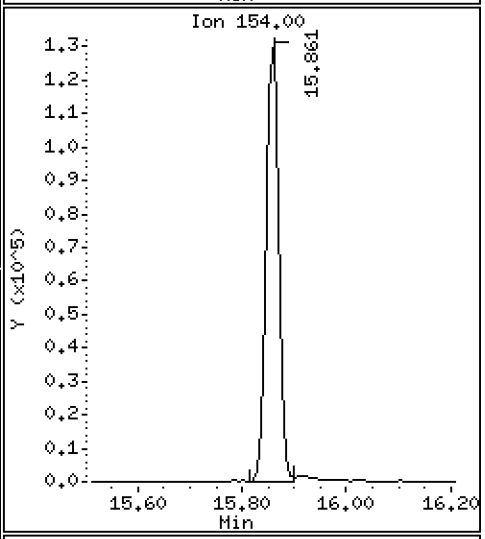
44 Acenaphthene

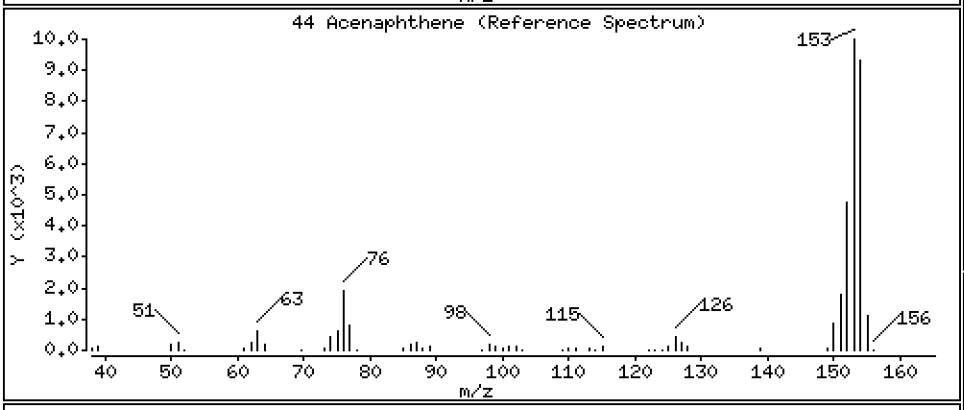
Concentration: 5.393 ug/mL

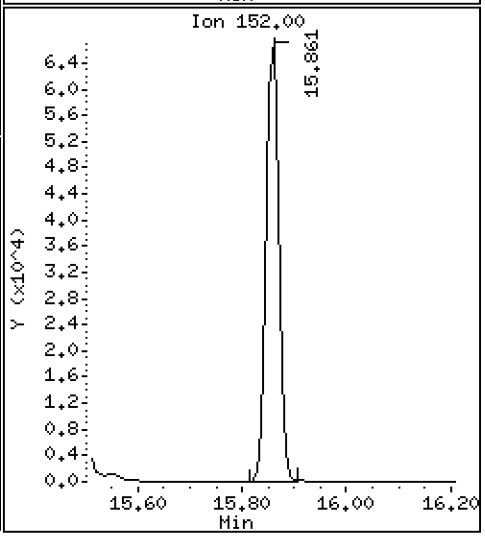


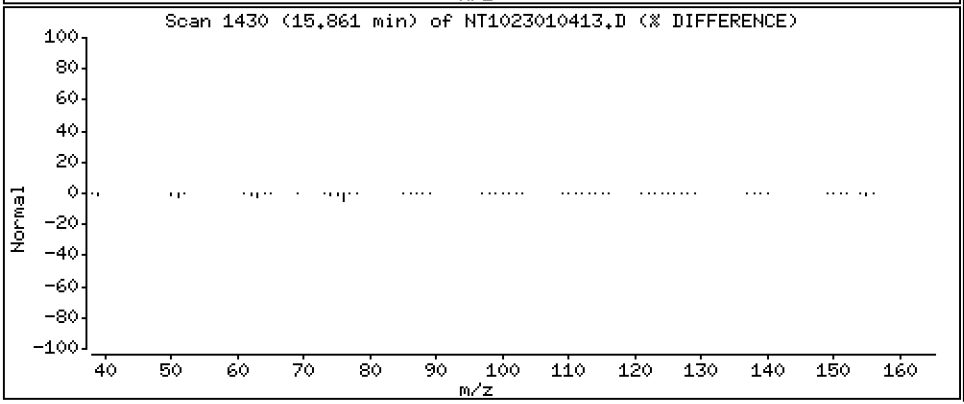












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

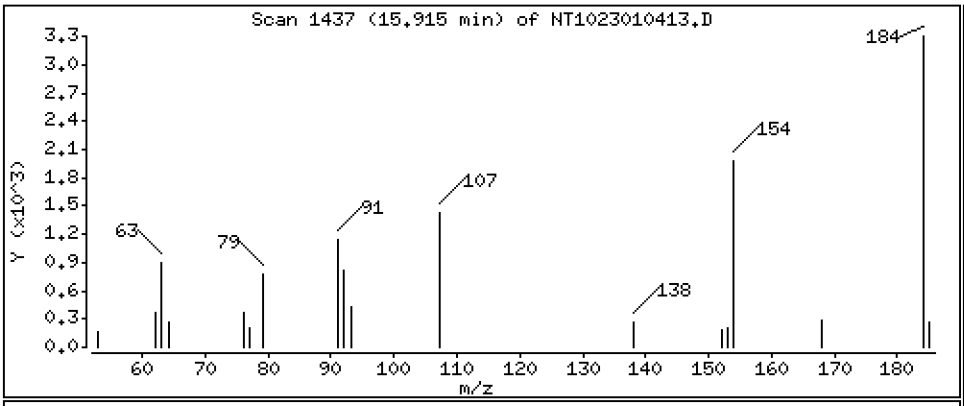
Operator: VTS

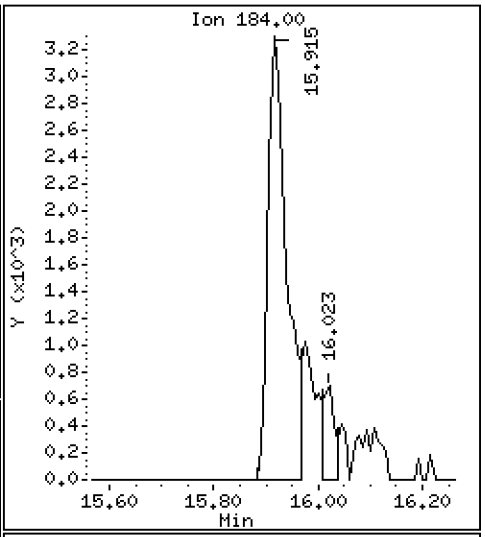
Column phase: ZB-5msi

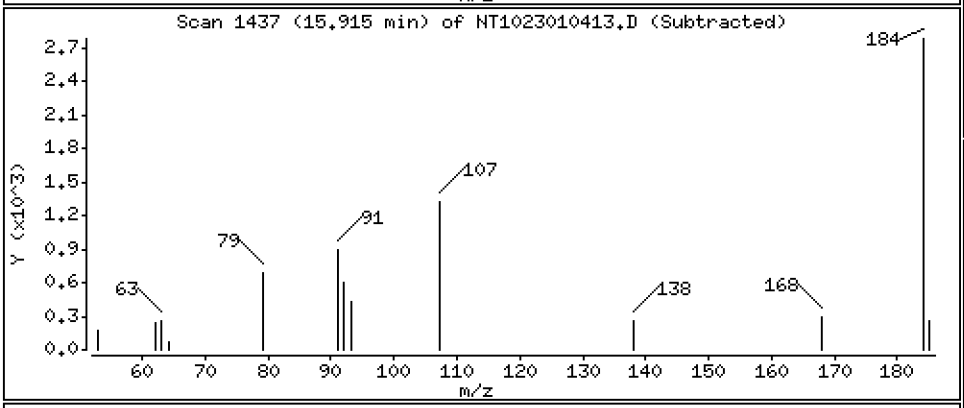
Column diameter: 0.25

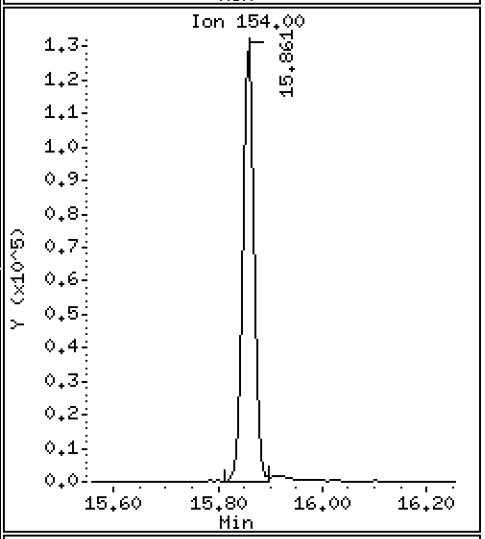
45 2,4-Dinitrophenol

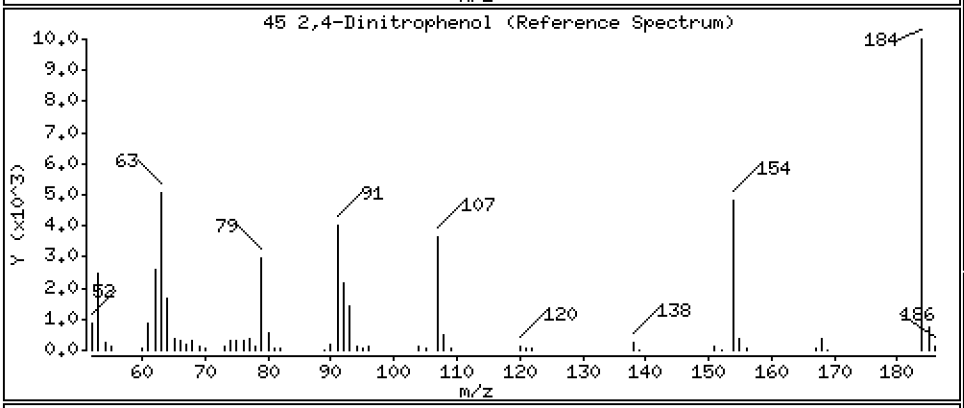
Concentration: 1.161 ug/mL

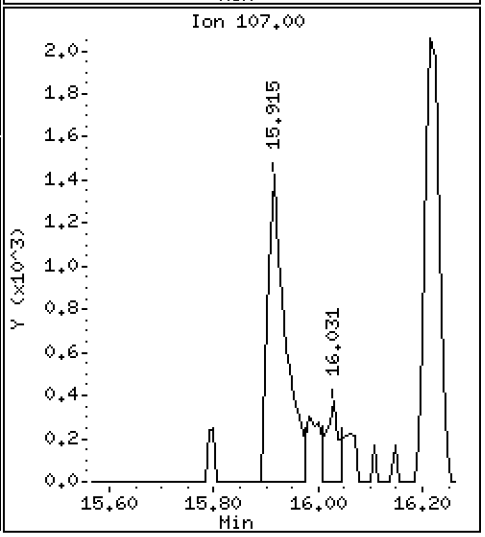


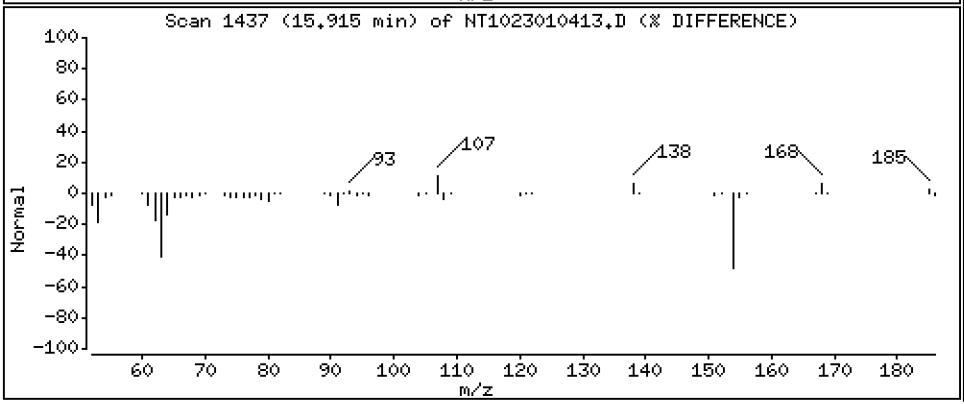












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

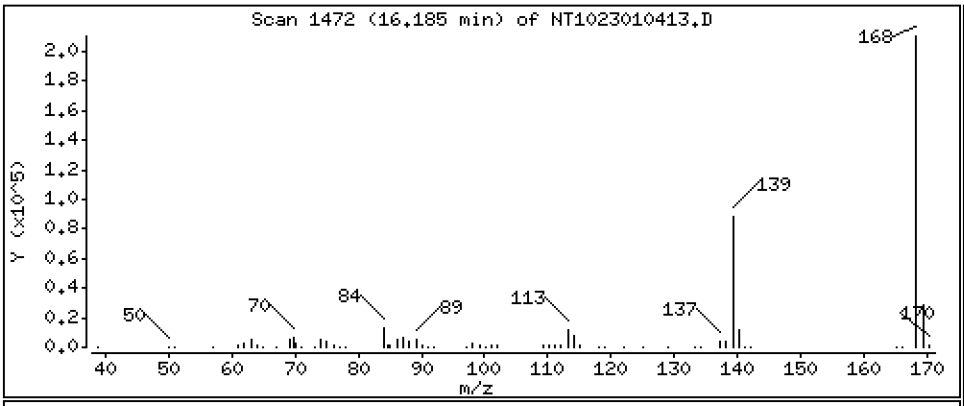
Operator: VTS

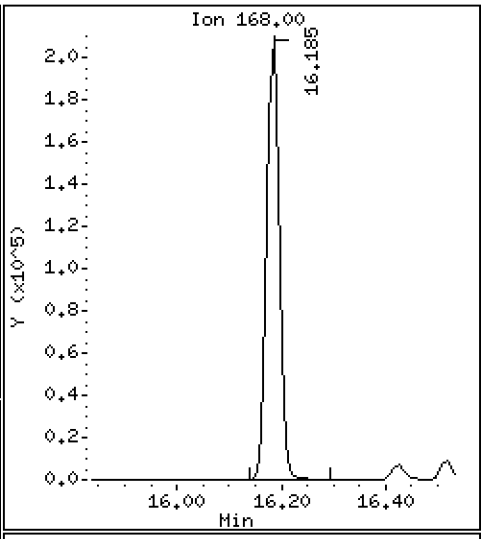
Column phase: ZB-5msi

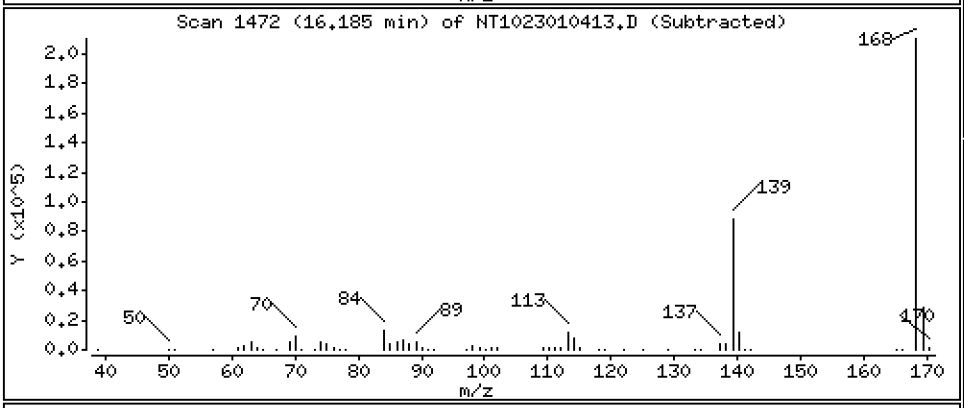
Column diameter: 0.25

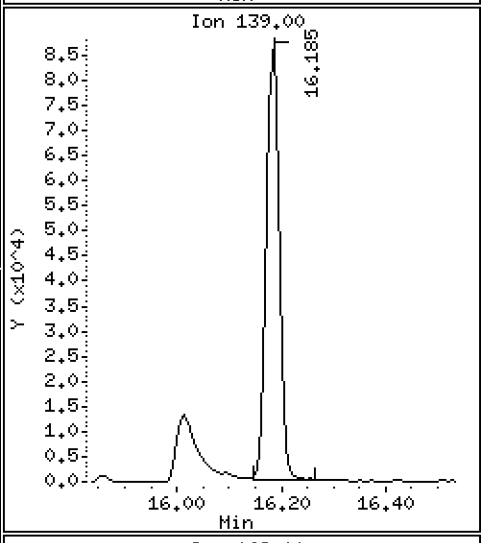
46 Dibenzofuran

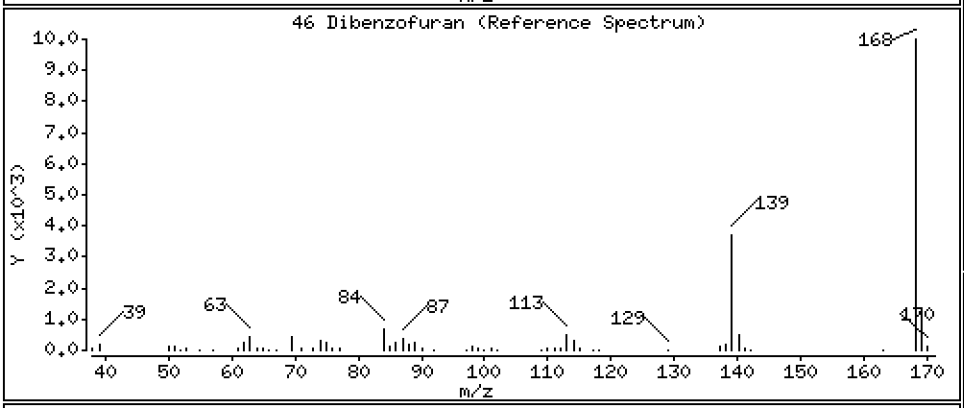
Concentration: 5.268 ug/mL

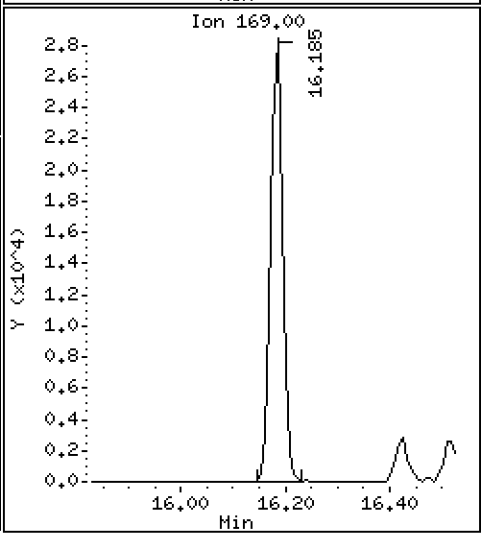


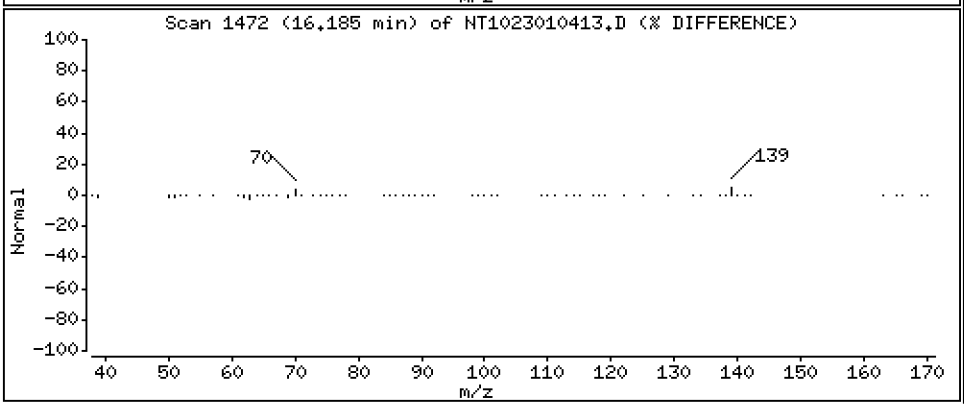












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

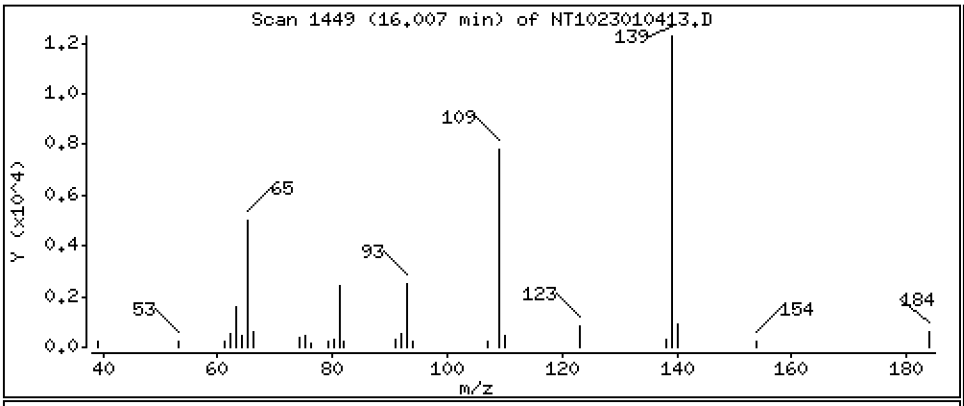
Operator: VTS

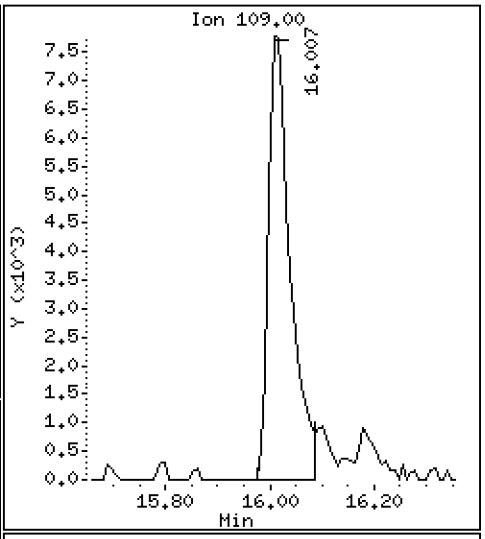
Column phase: ZB-5msi

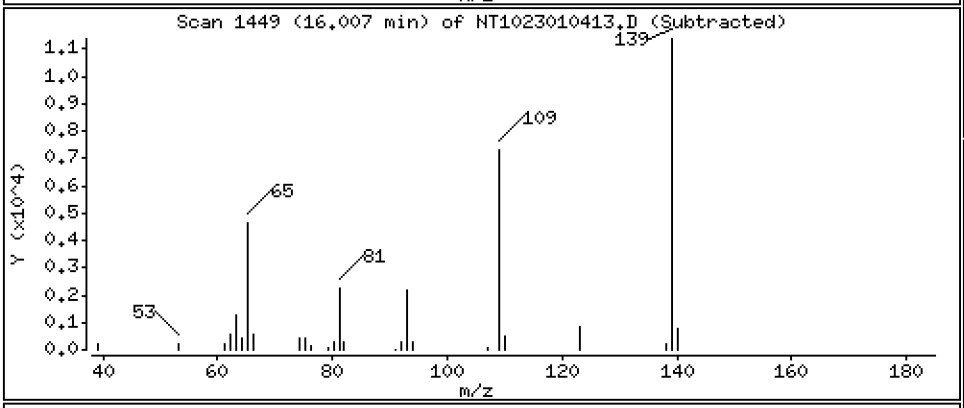
Column diameter: 0.25

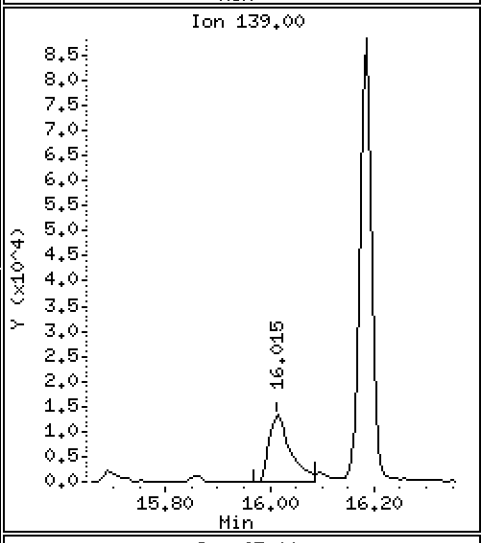
47 4-Nitrophenol

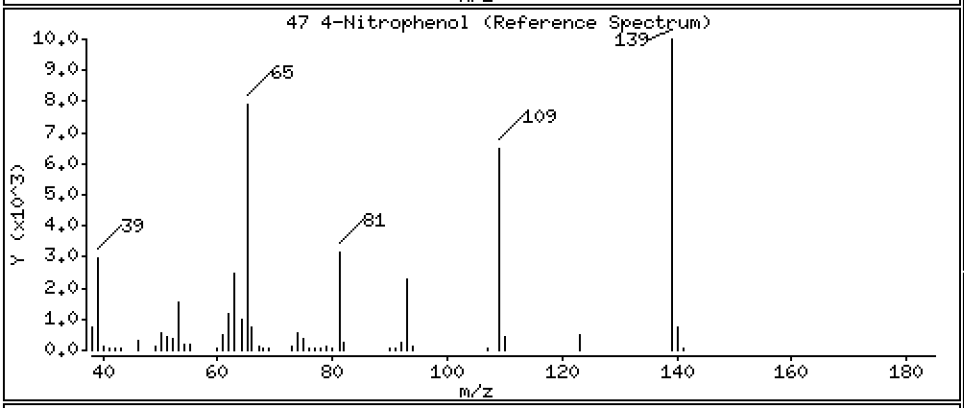
Concentration: 3.882 ug/mL

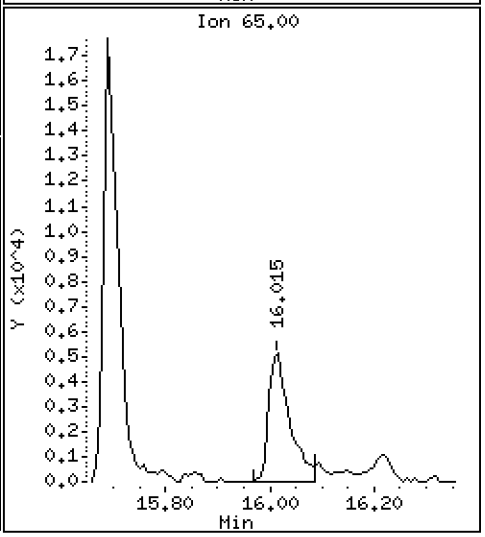


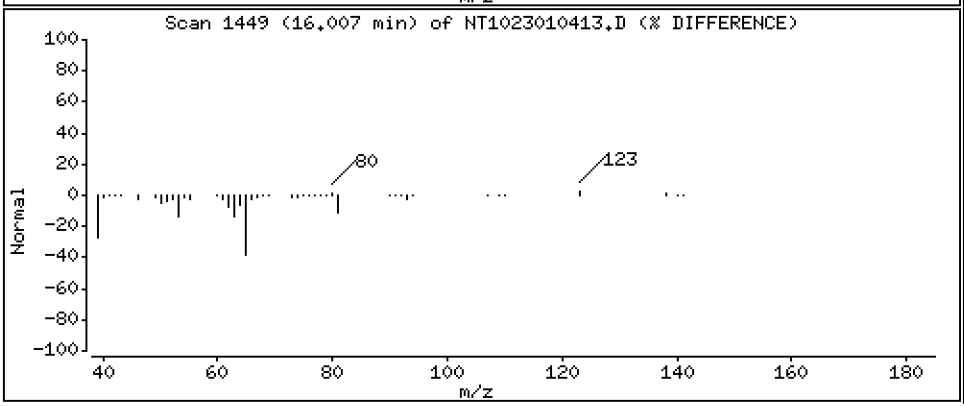












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

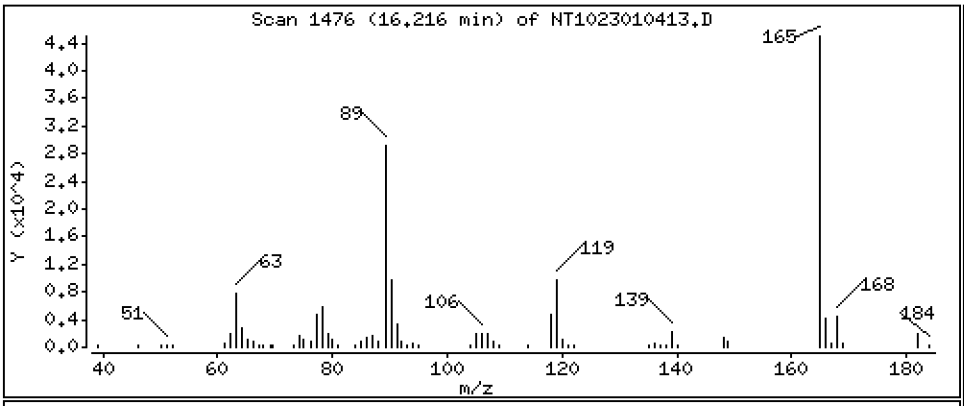
Operator: VTS

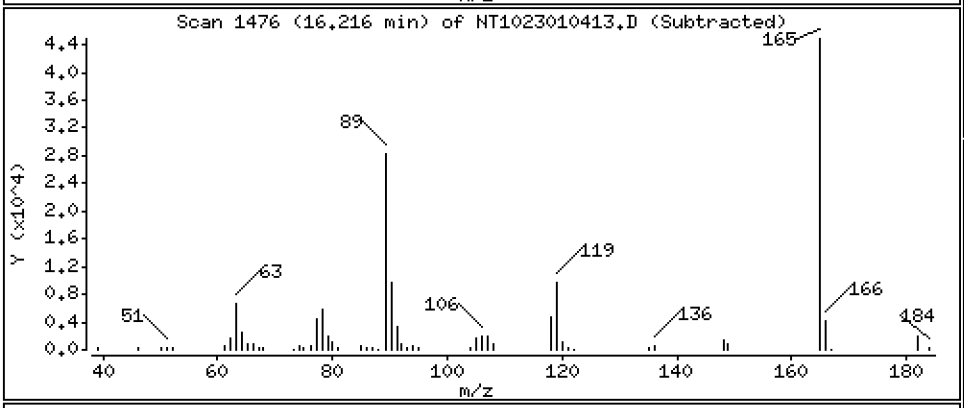
Column phase: ZB-5msi

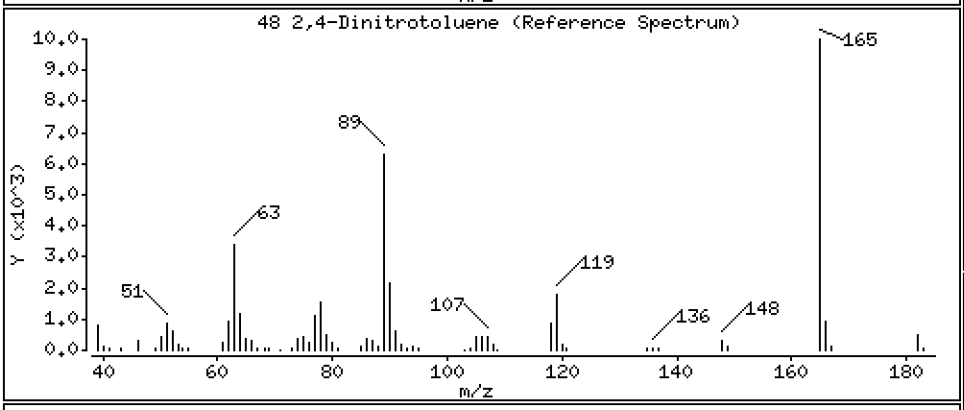
Column diameter: 0.25

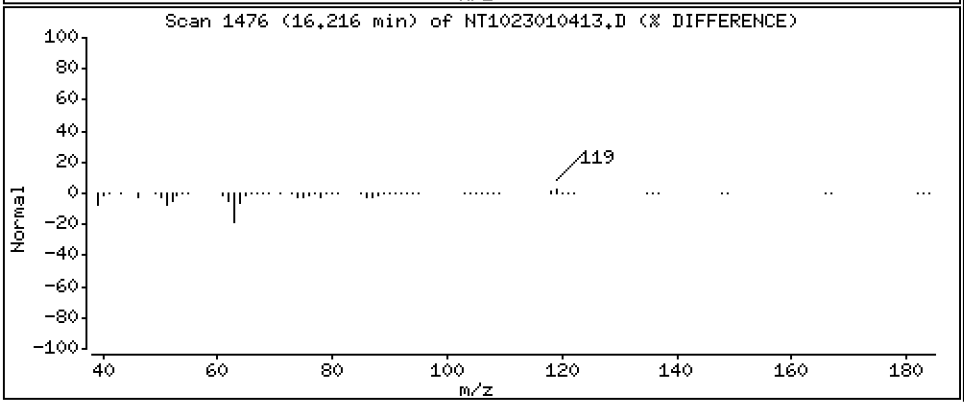
48 2,4-Dinitrotoluene

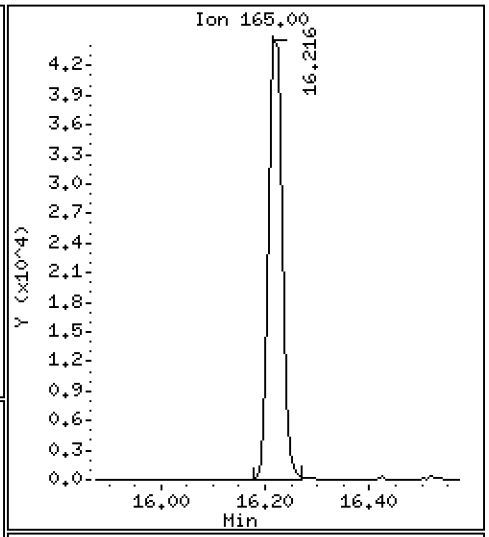
Concentration: 5.337 ug/mL

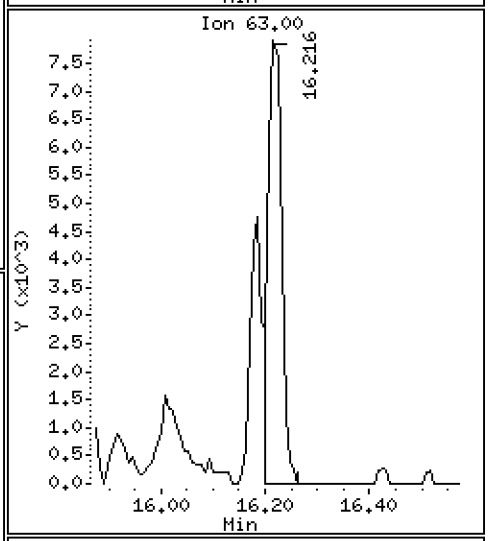


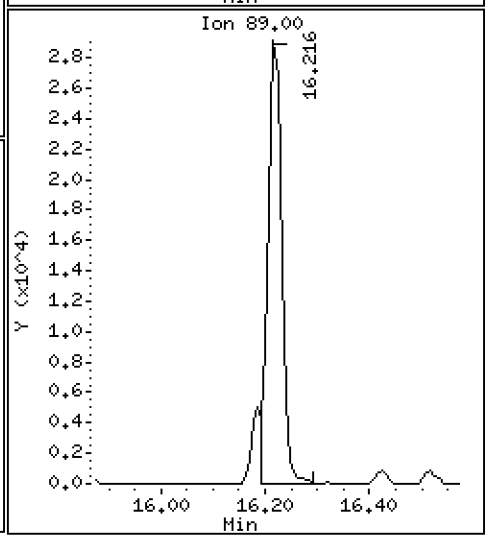












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

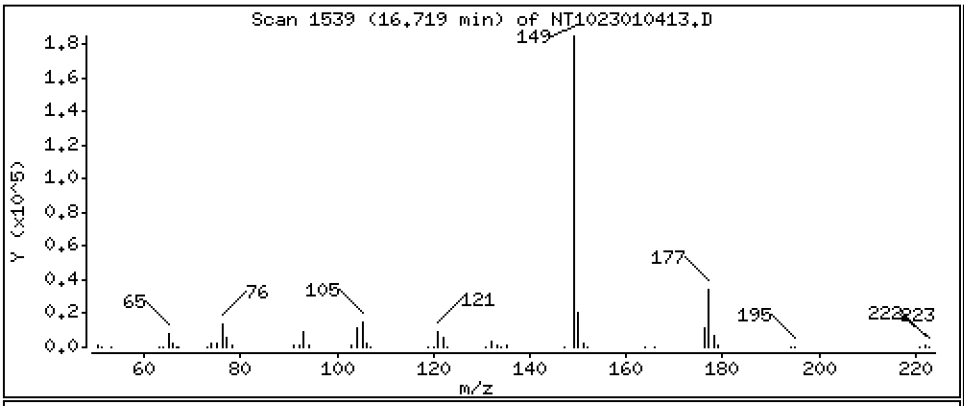
Operator: VTS

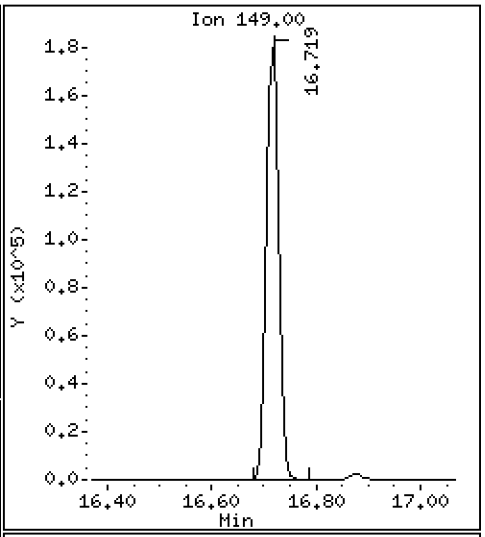
Column phase: ZB-5msi

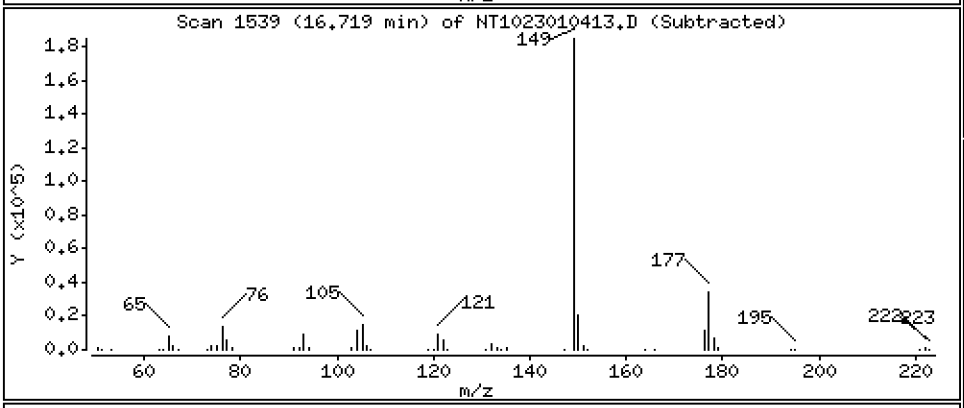
Column diameter: 0.25

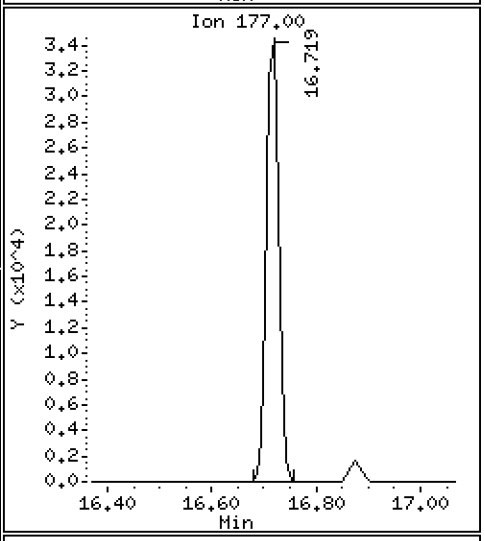
50 Diethylphthalate

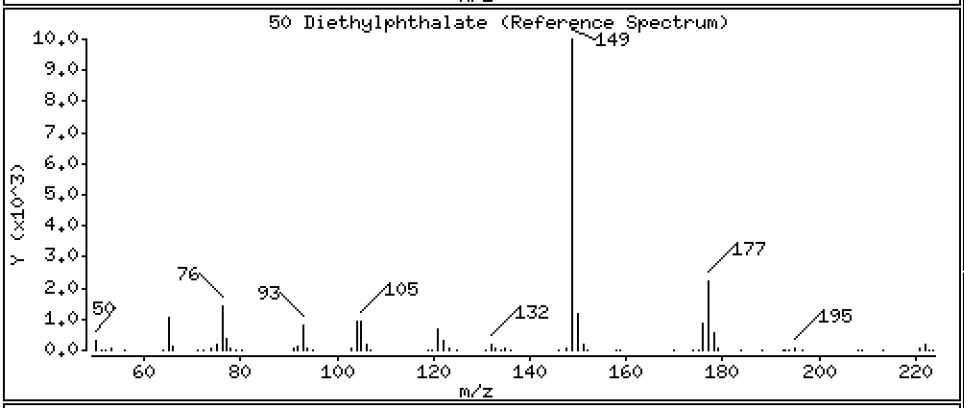
Concentration: 5.604 ug/mL

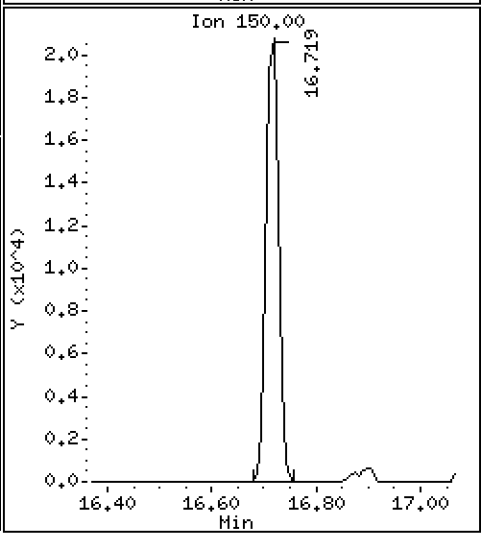


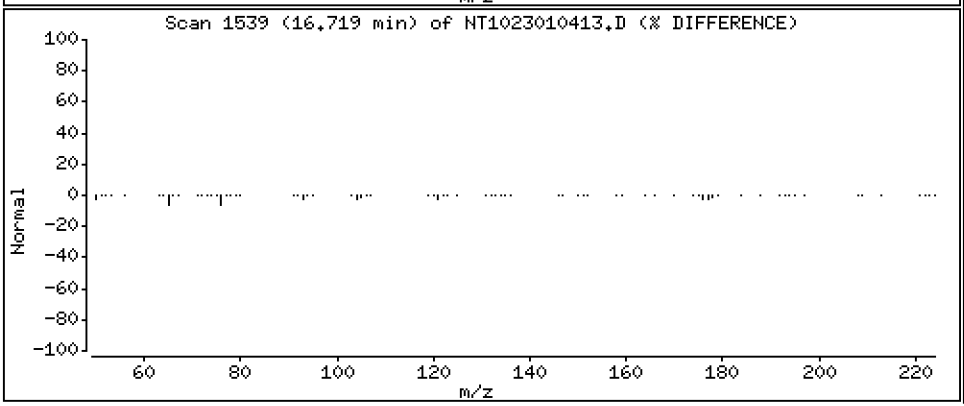












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

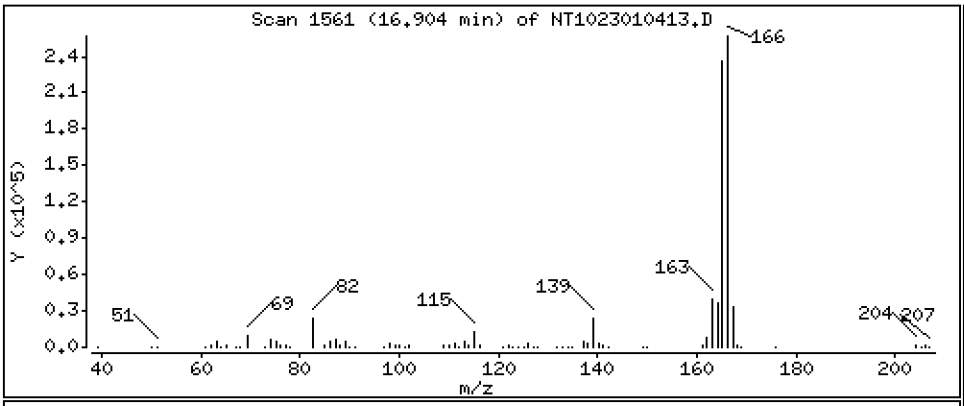
Operator: VTS

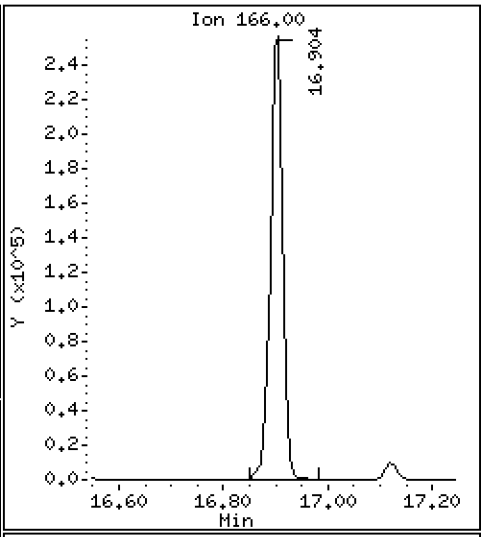
Column phase: ZB-5msi

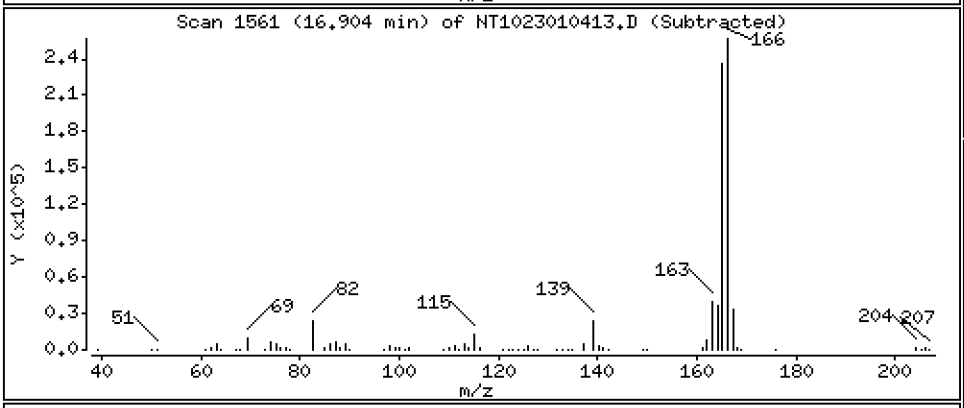
Column diameter: 0.25

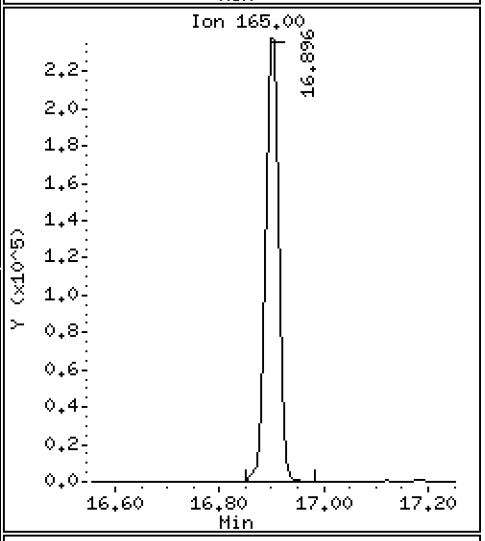
49 Fluorene

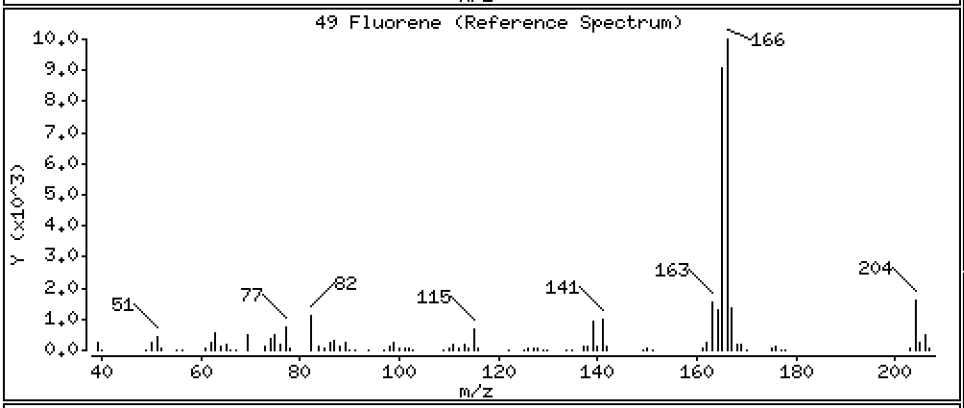
Concentration: 5.127 ug/mL

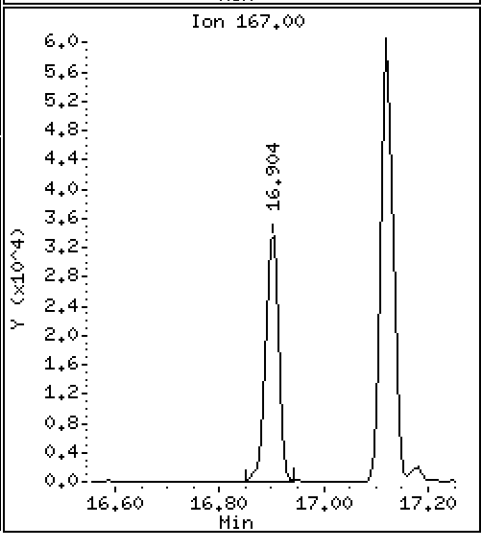


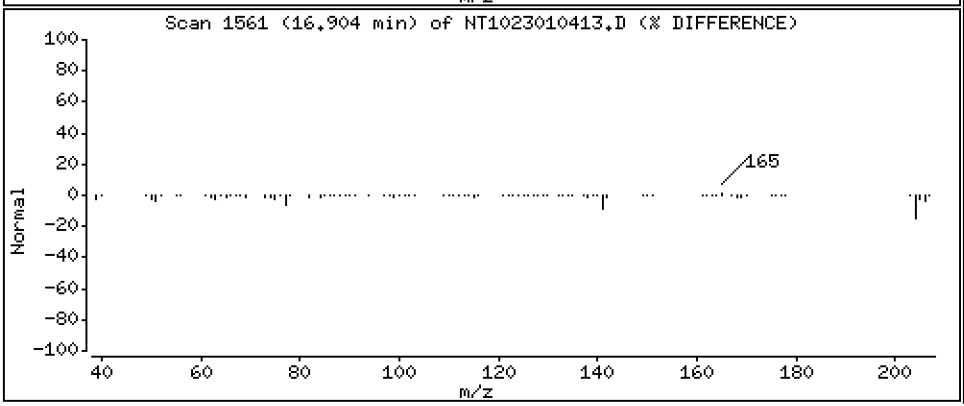












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

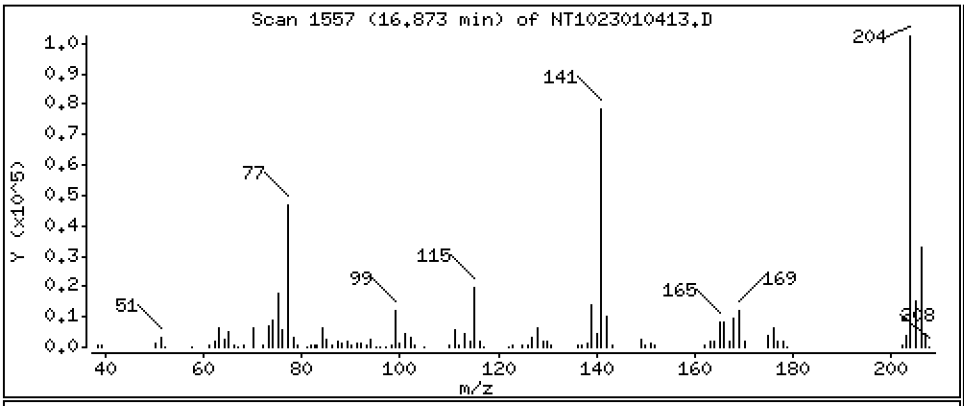
Operator: VTS

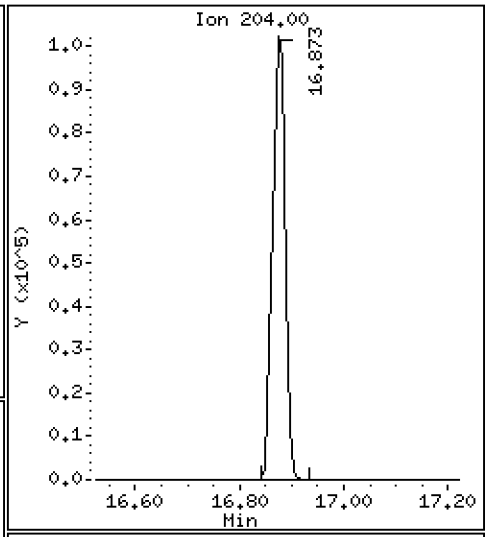
Column phase: ZB-5msi

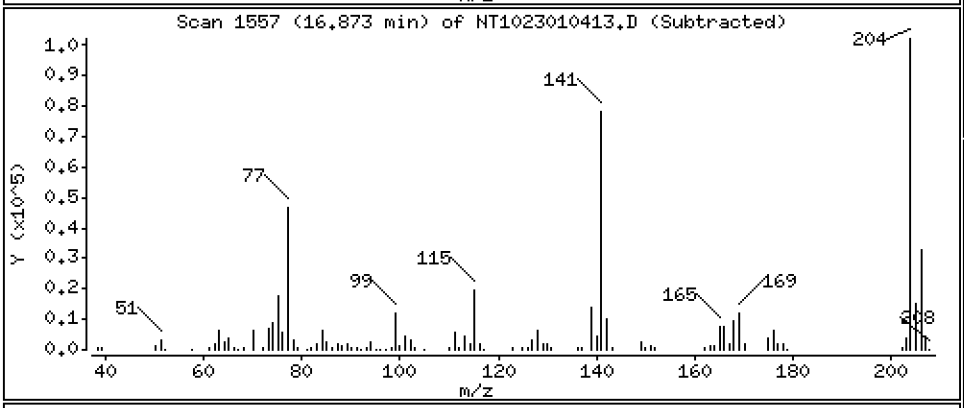
Column diameter: 0.25

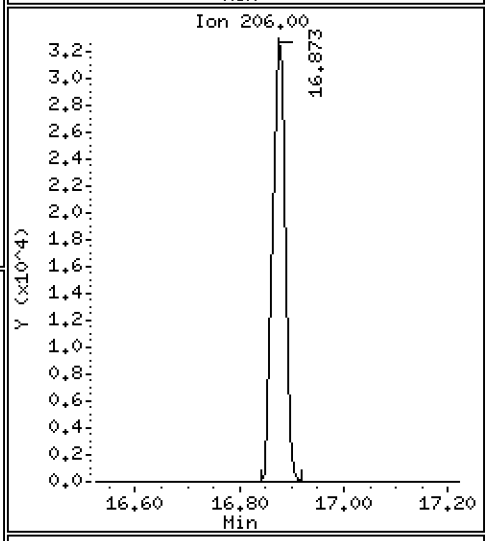
51 4-Chlorophenyl-phenylether

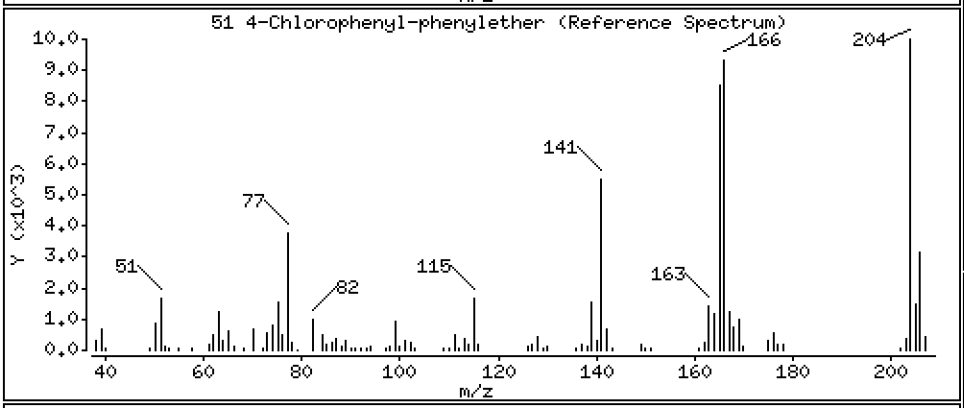
Concentration: 4.890 ug/mL

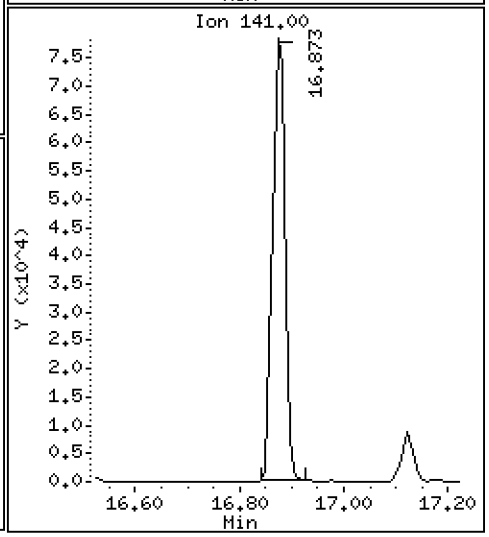


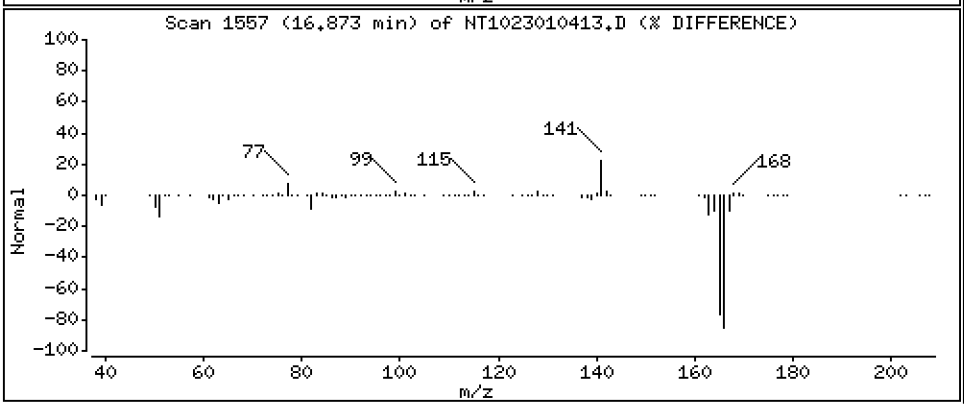












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

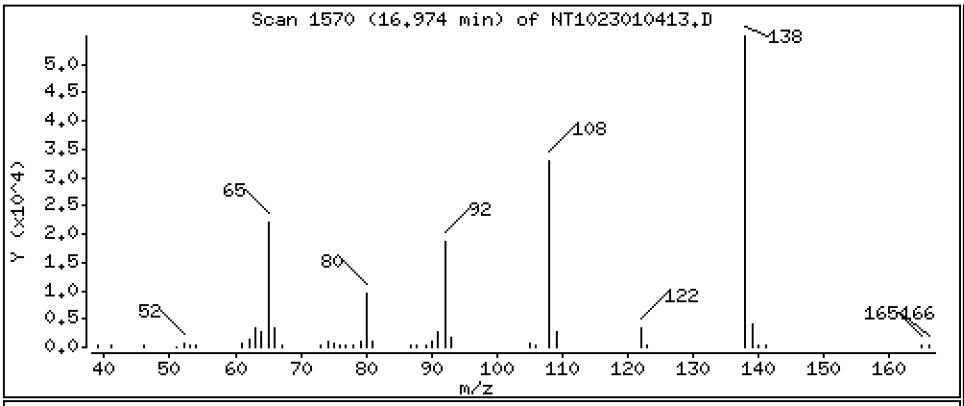
Operator: VTS

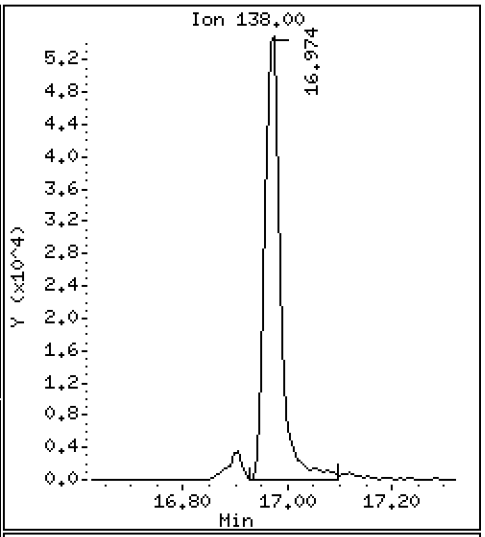
Column phase: ZB-5msi

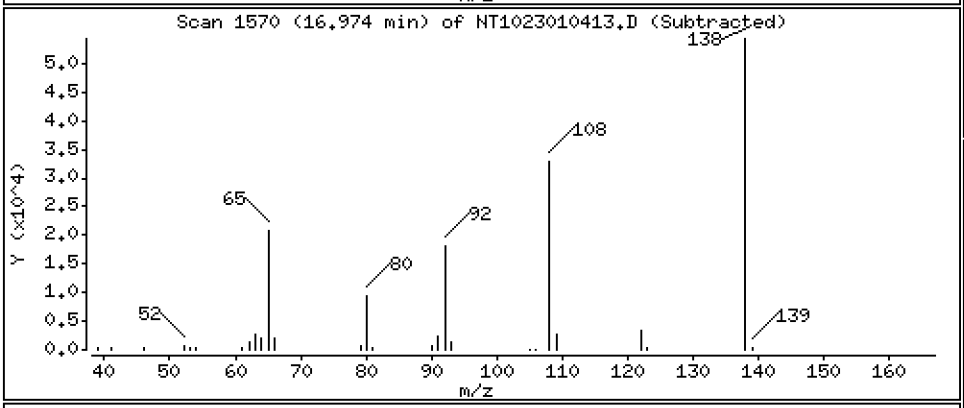
Column diameter: 0.25

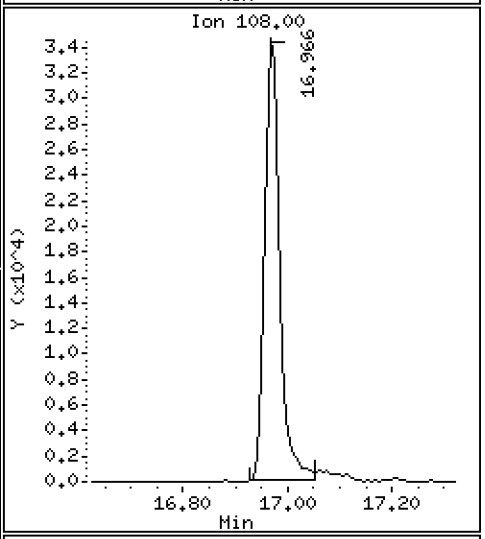
52 4-Nitroaniline

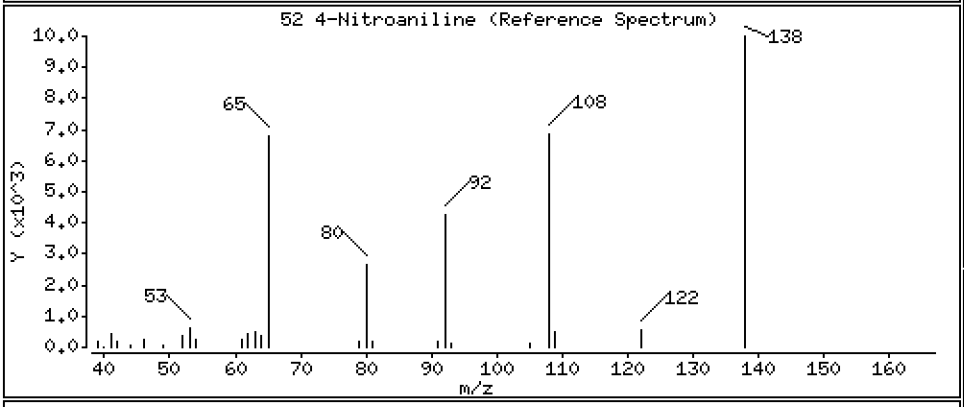
Concentration: 5.363 ug/mL

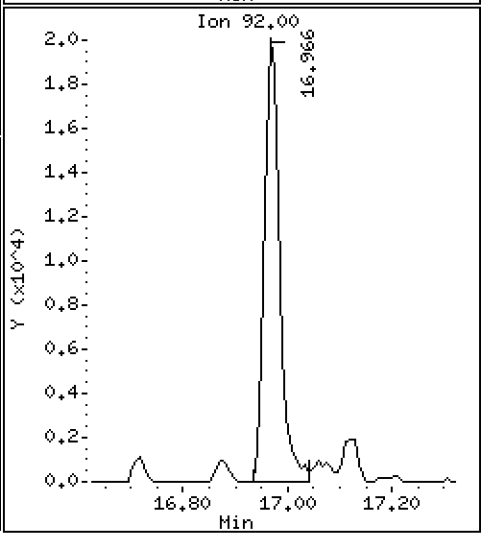


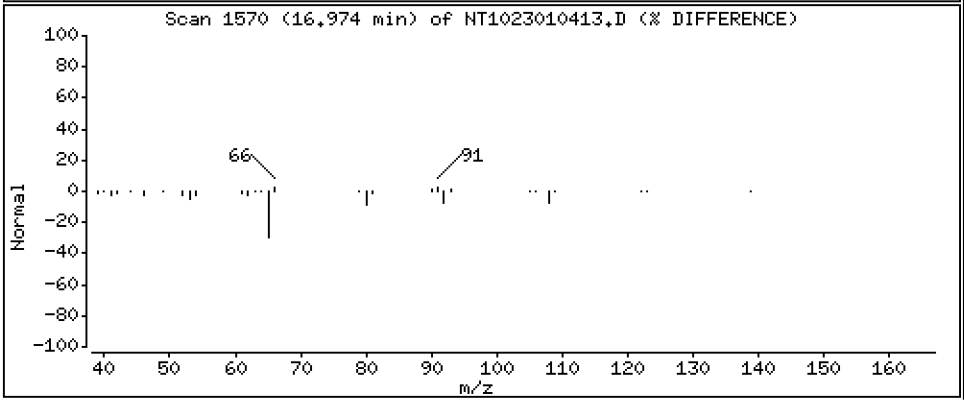












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

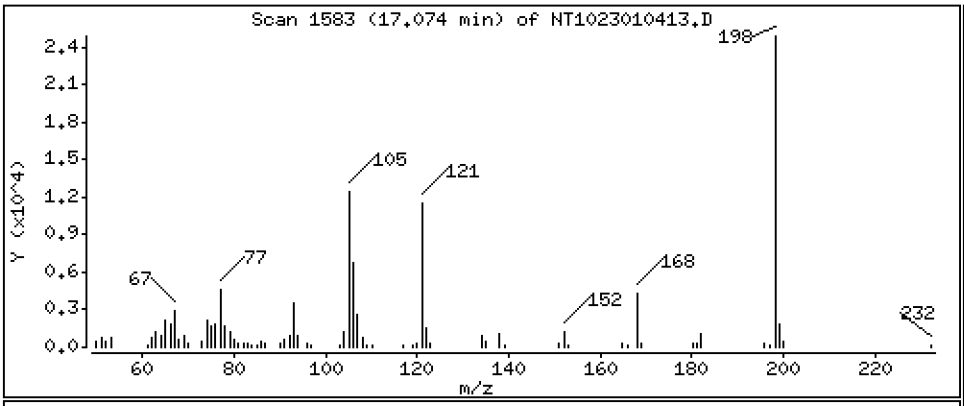
Operator: VTS

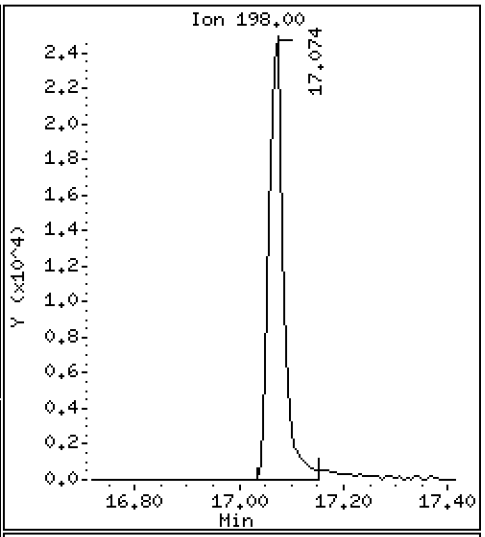
Column phase: ZB-5msi

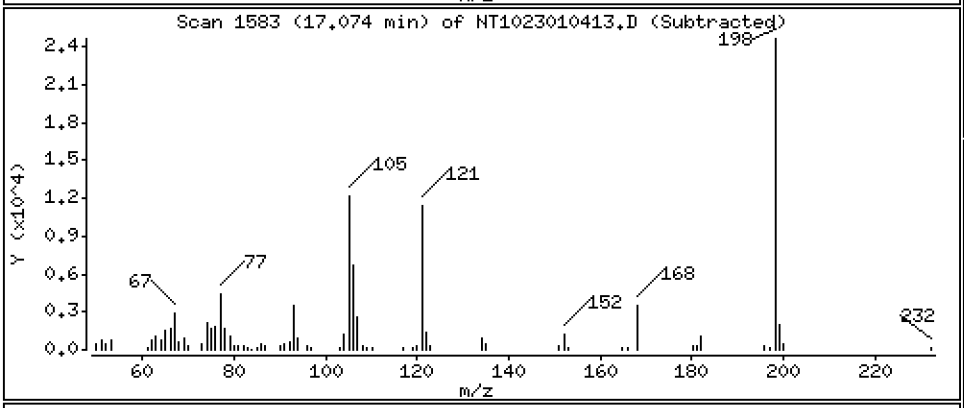
Column diameter: 0.25

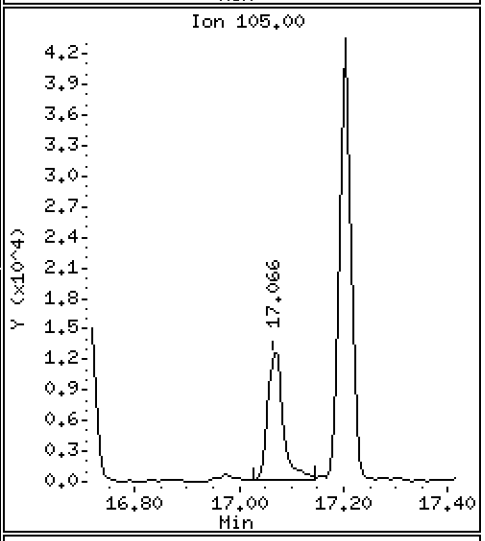
53 4,6-Dinitro-2-methylphenol

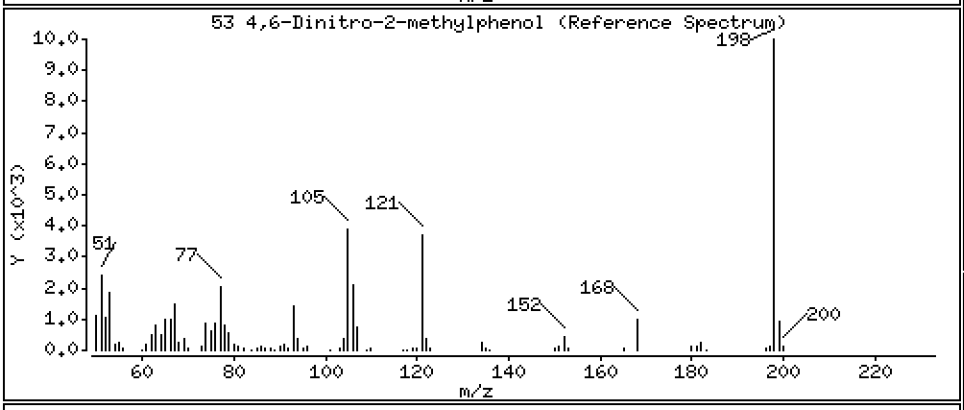
Concentration: 3.808 ug/mL

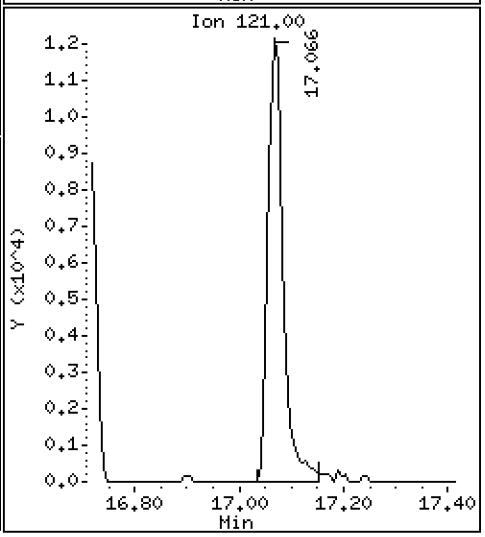


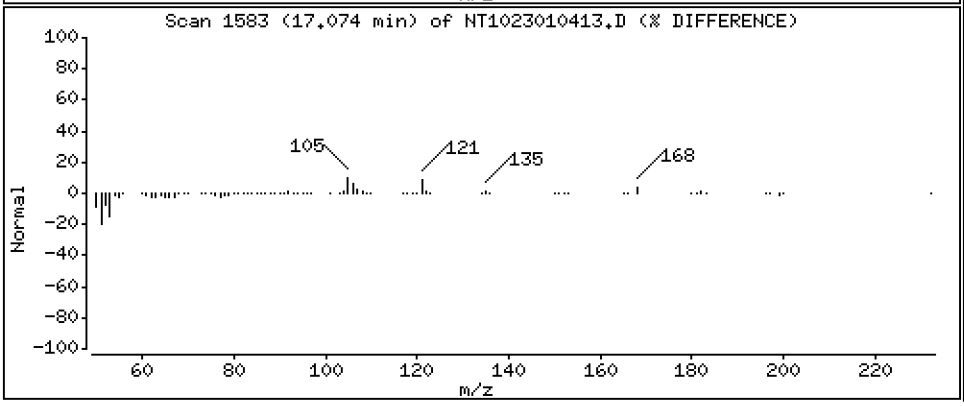












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

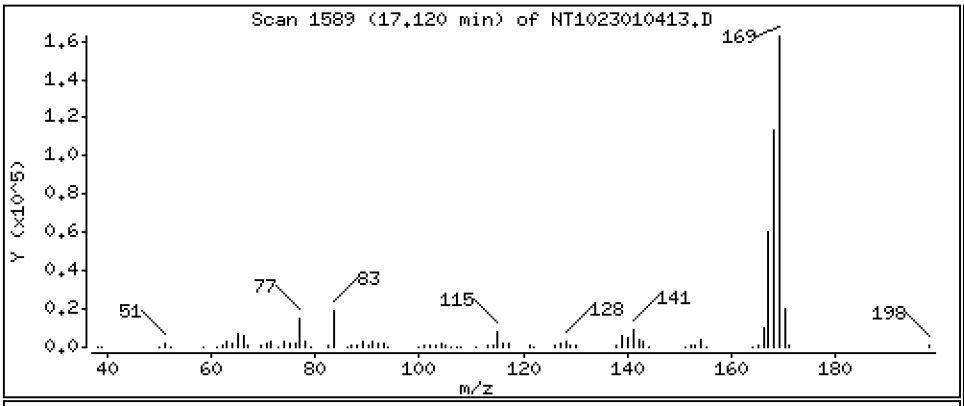
Operator: VTS

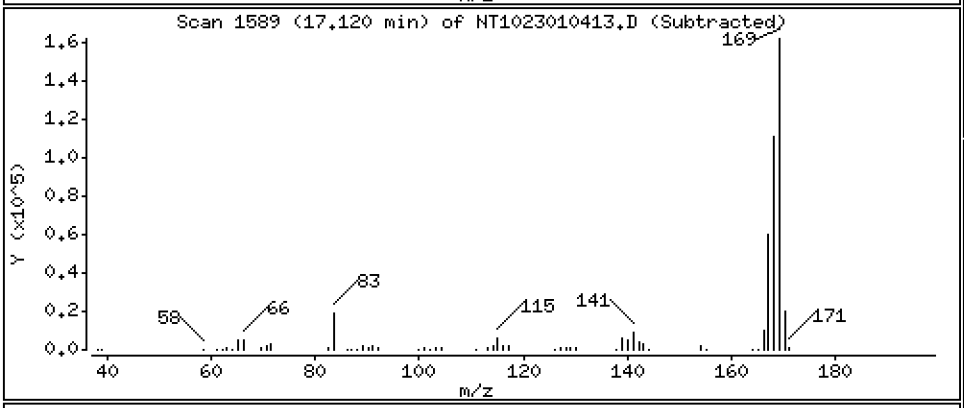
Column phase: ZB-5msi

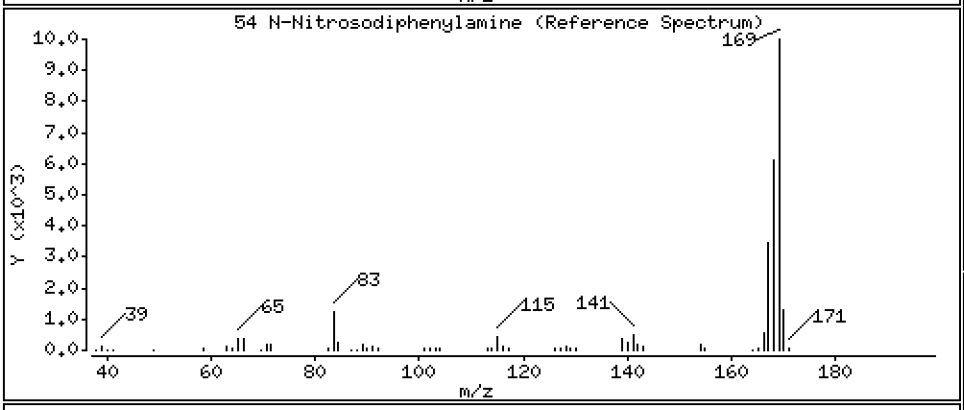
Column diameter: 0.25

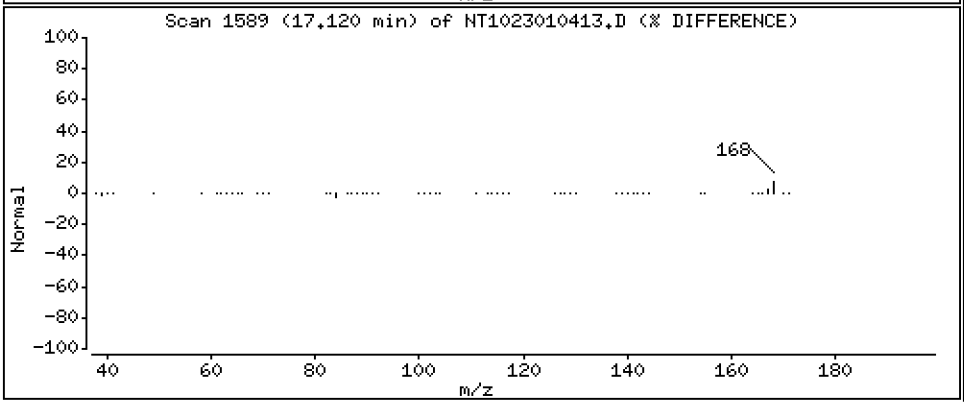
54 N-Nitrosodiphenylamine

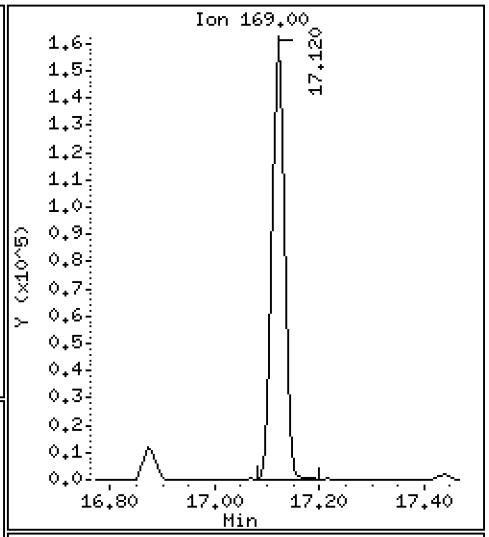
Concentration: 4.692 ug/mL

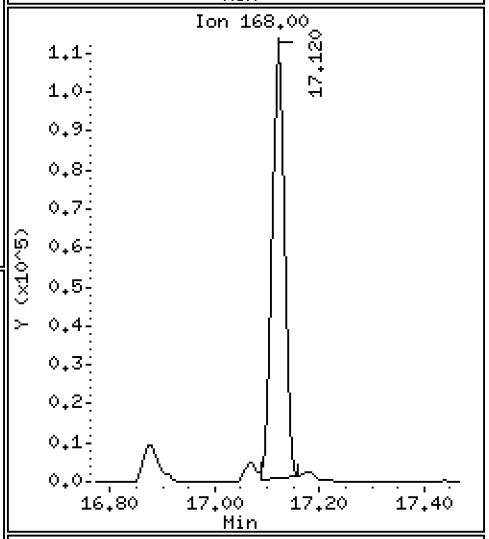


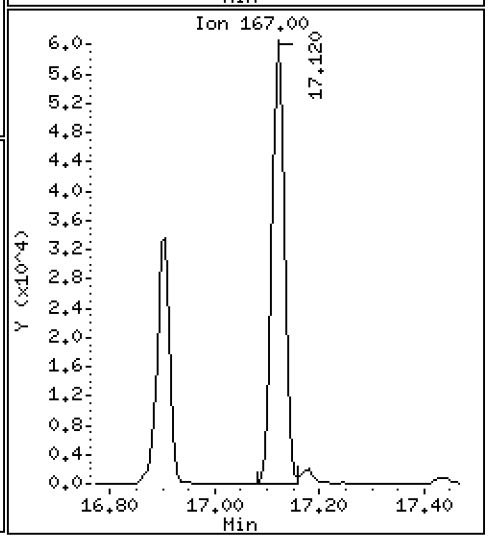












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

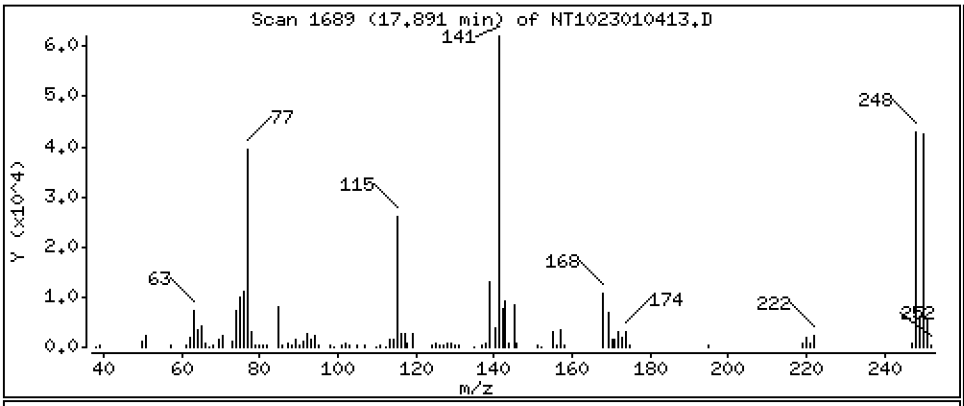
Operator: VTS

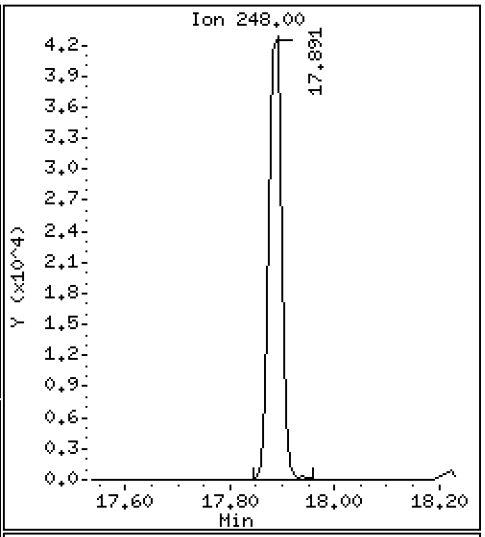
Column phase: ZB-5msi

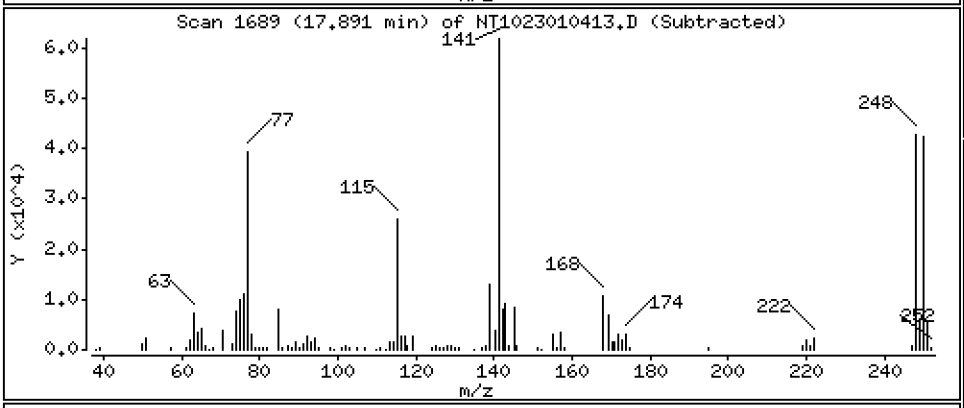
Column diameter: 0.25

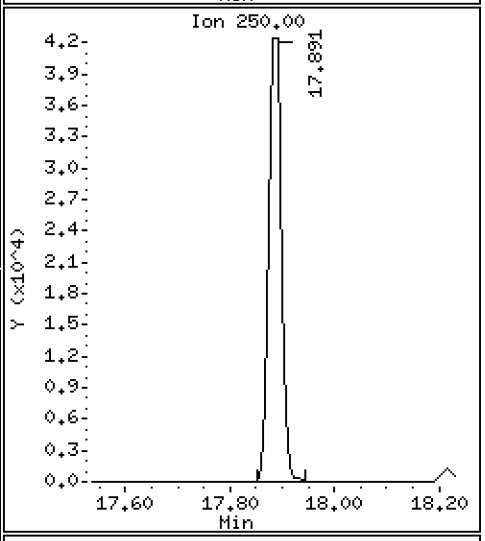
56 4-Bromophenyl-phenylether

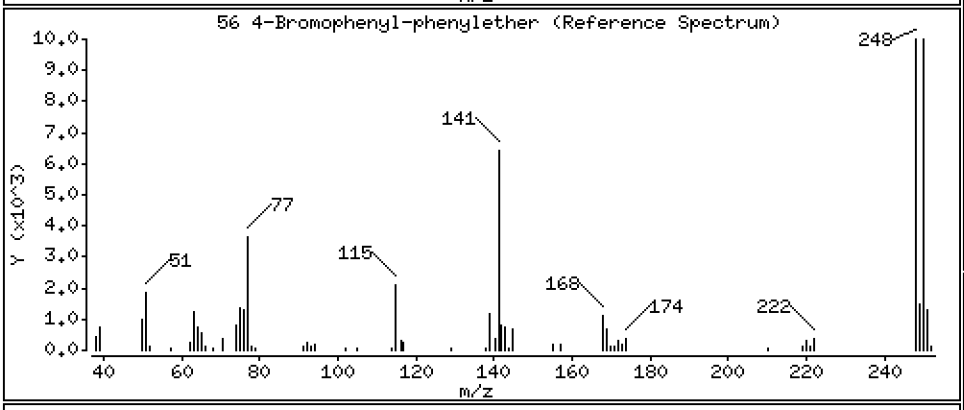
Concentration: 4.854 ug/mL

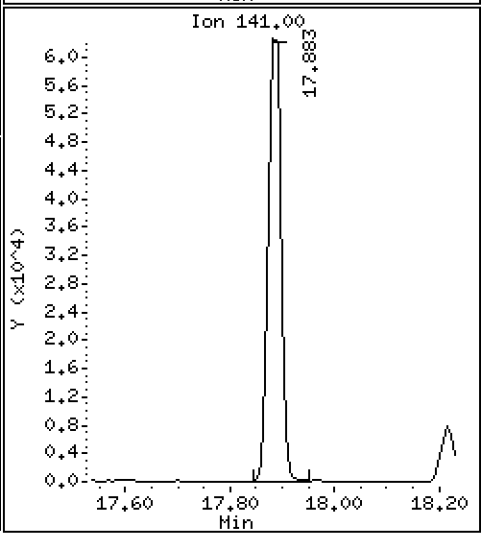


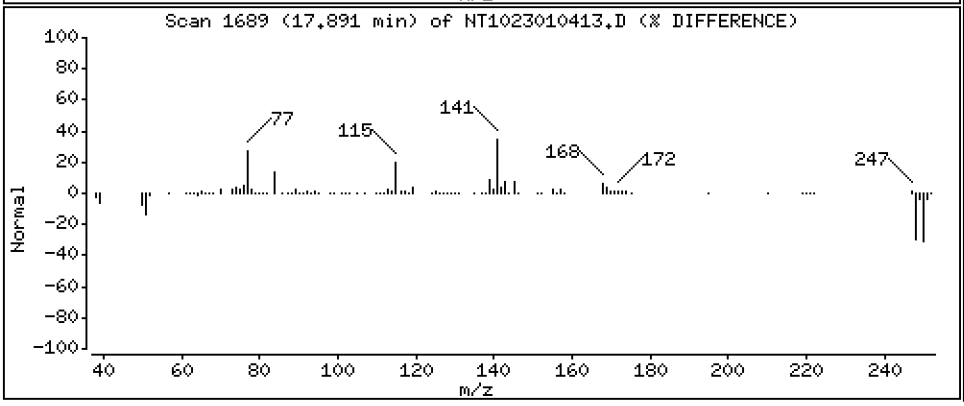












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

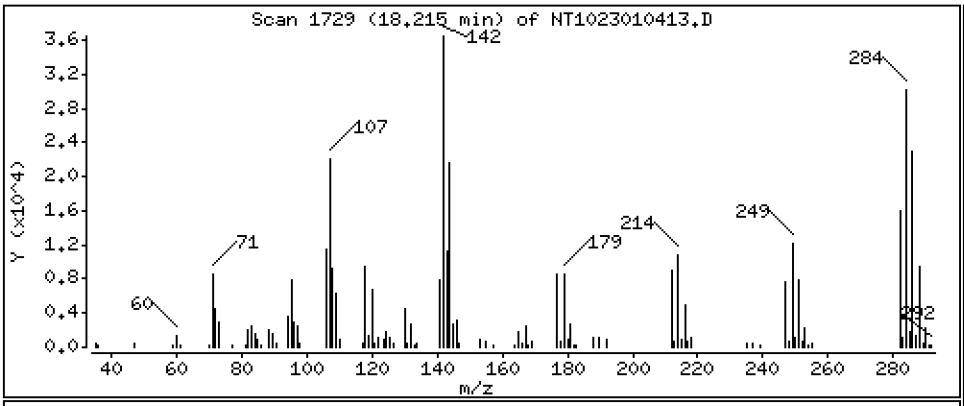
Operator: VTS

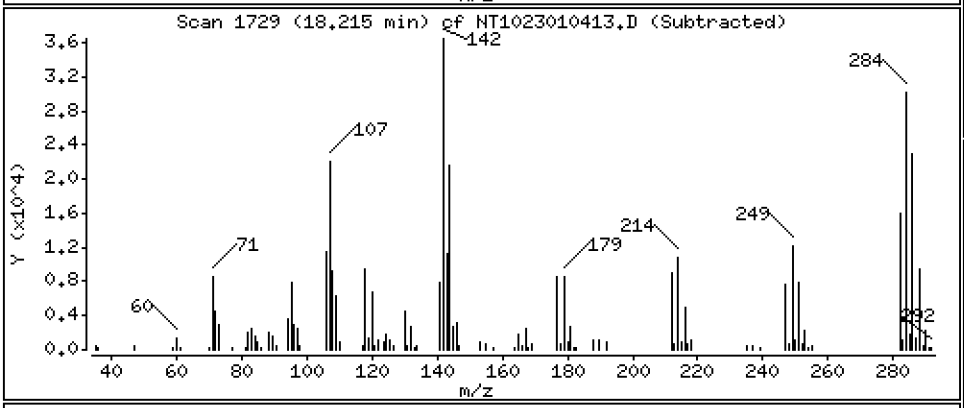
Column phase: ZB-5msi

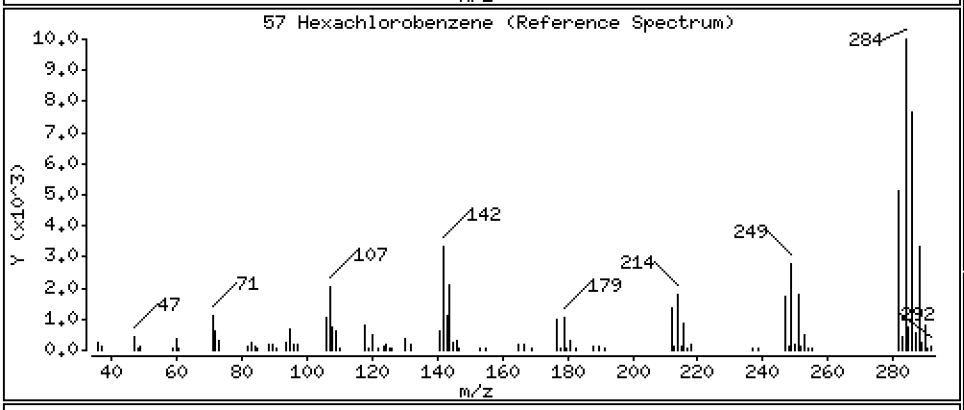
Column diameter: 0.25

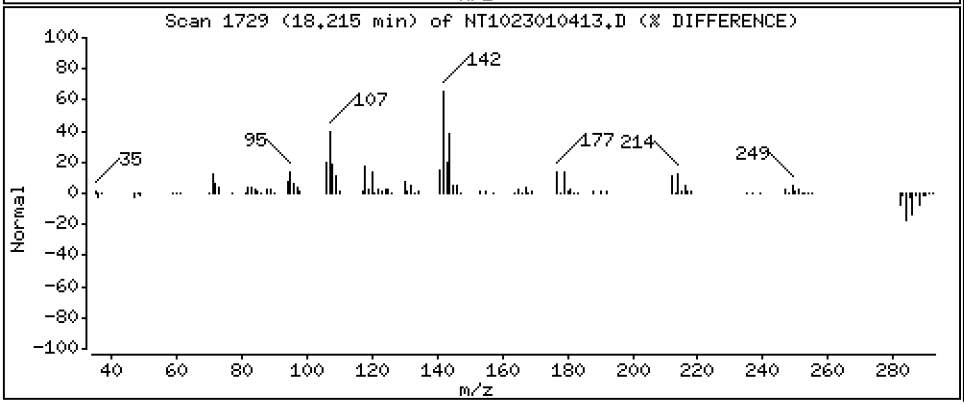
57 Hexachlorobenzene

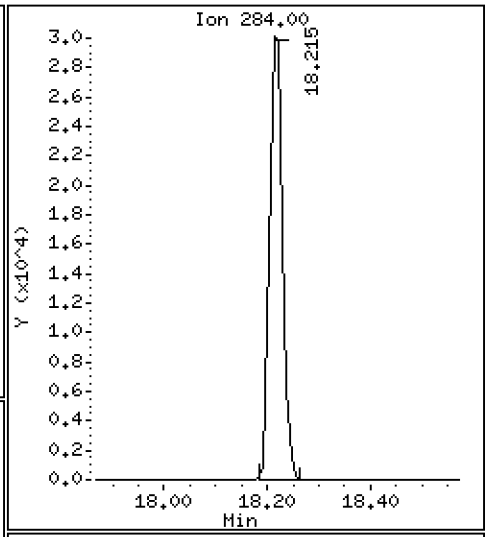
Concentration: 4.101 ug/mL

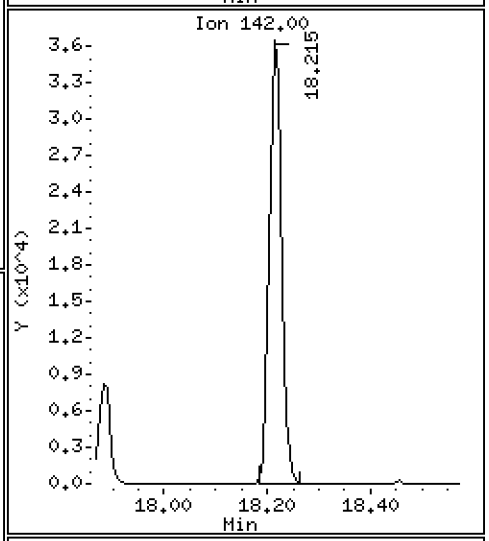


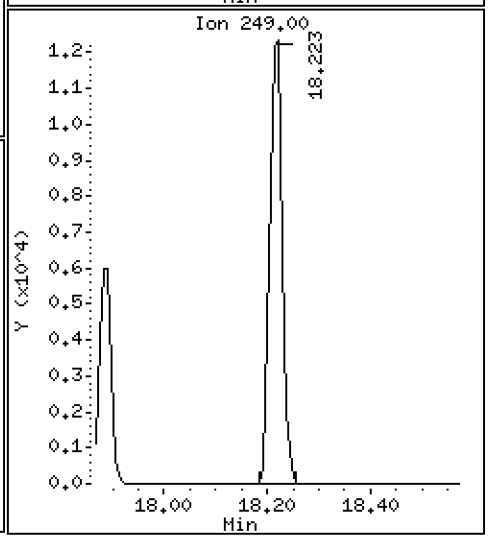












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

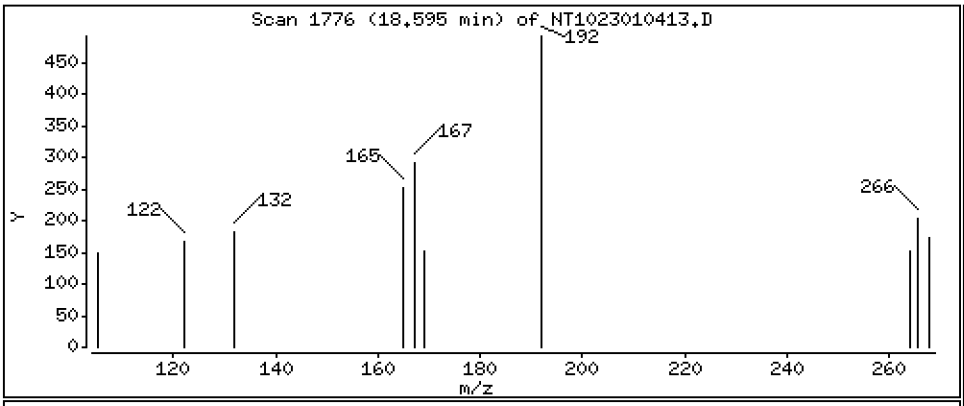
Operator: VTS

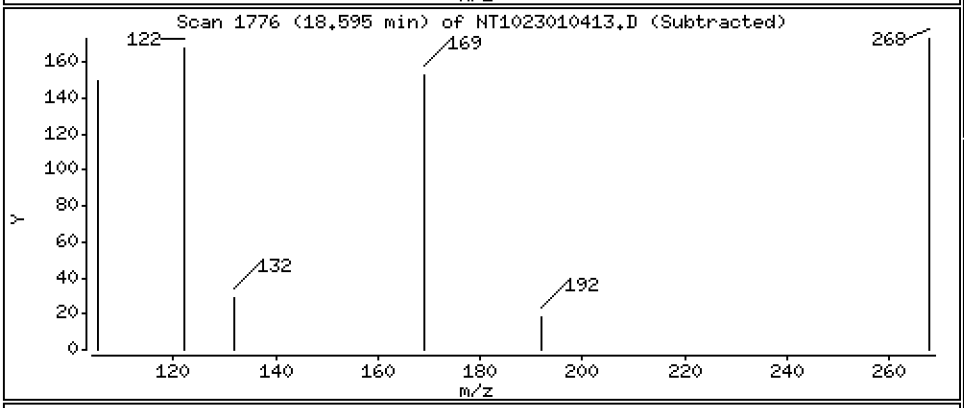
Column phase: ZB-5msi

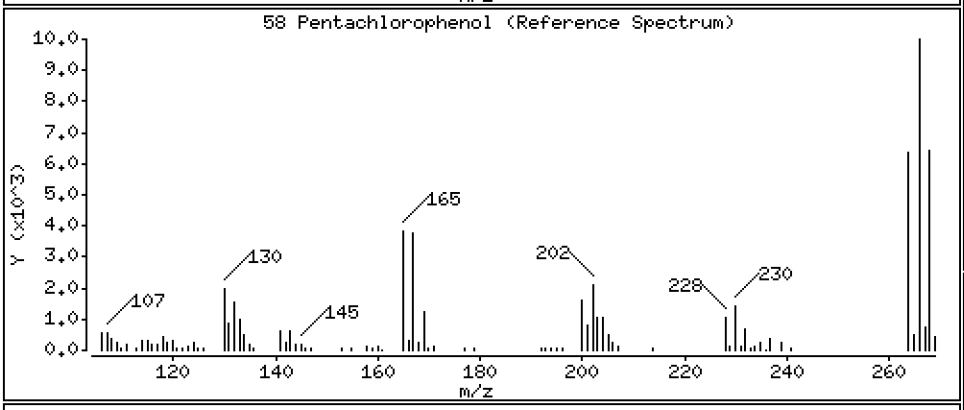
Column diameter: 0.25

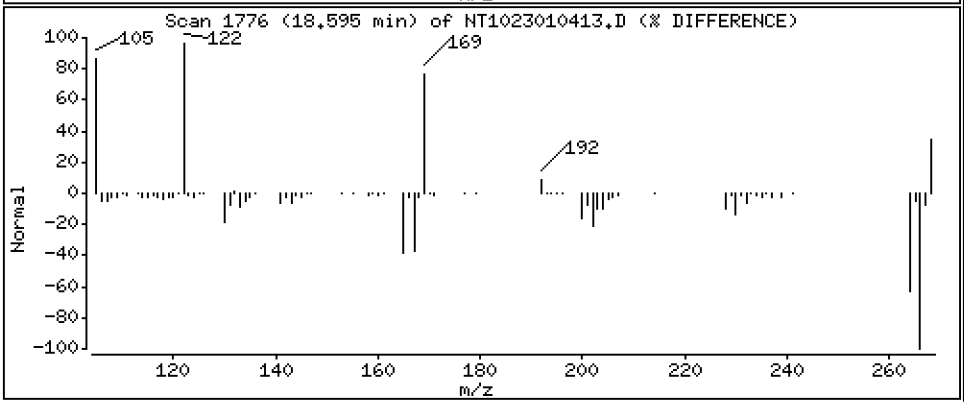
58 Pentachlorophenol

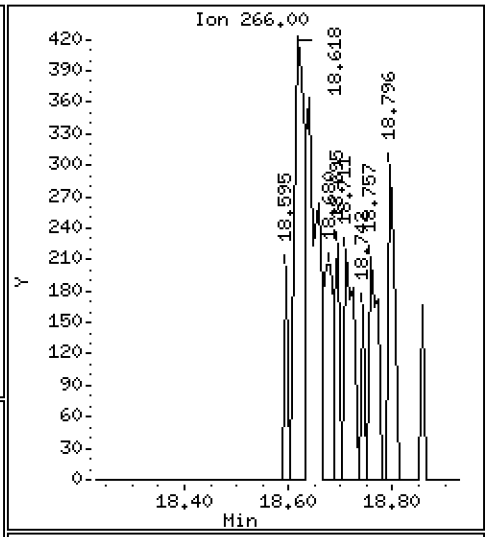
Concentration: 0.04497 ug/mL

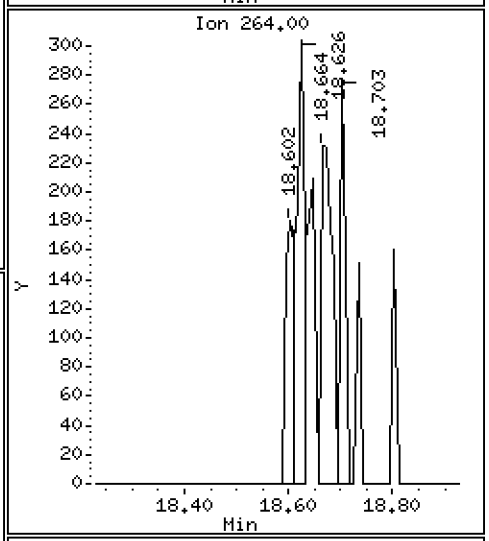


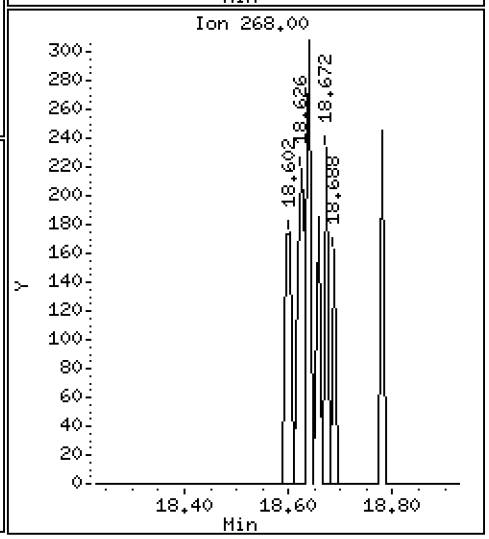












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

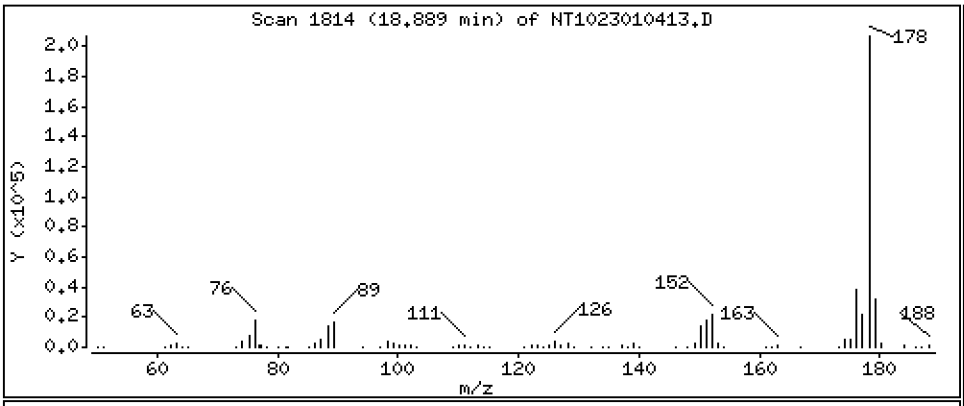
Operator: VTS

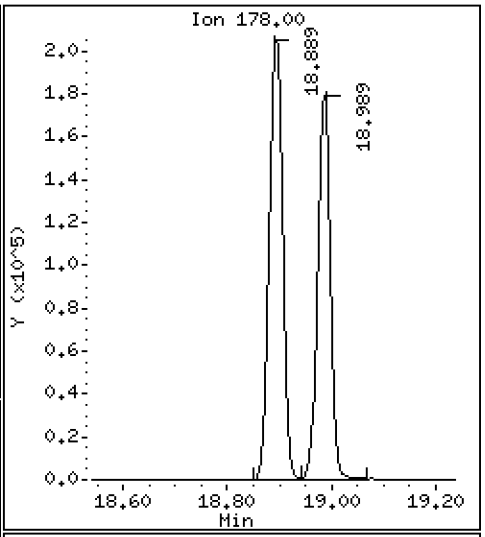
Column phase: ZB-5msi

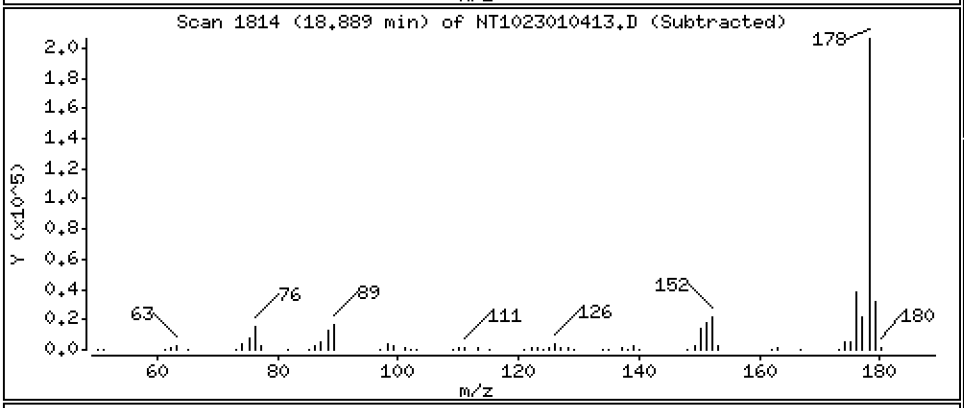
Column diameter: 0.25

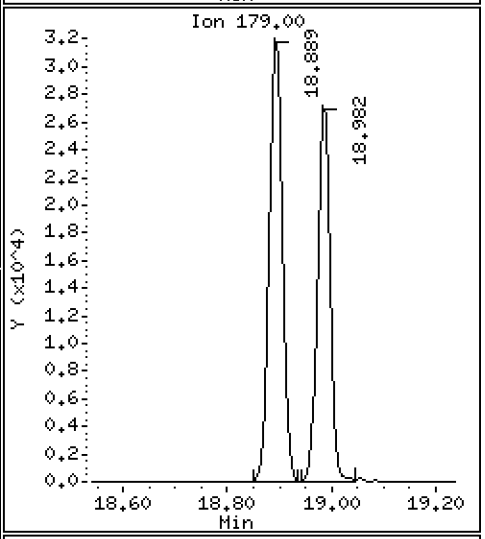
60 Phenanthrene

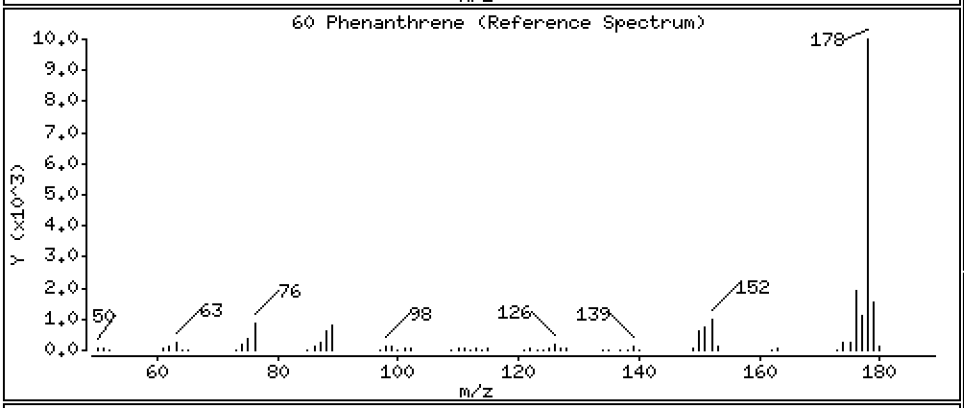
Concentration: 5.025 ug/mL

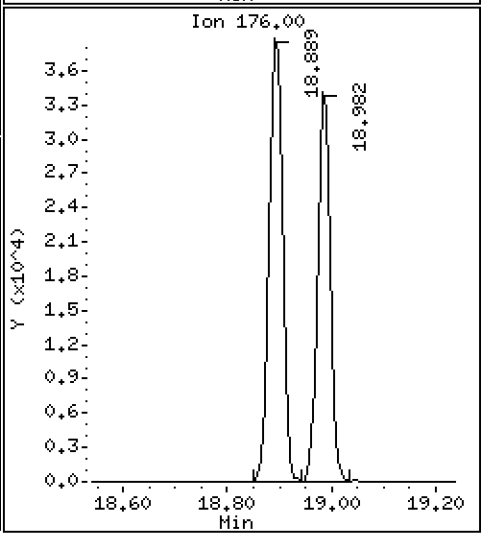


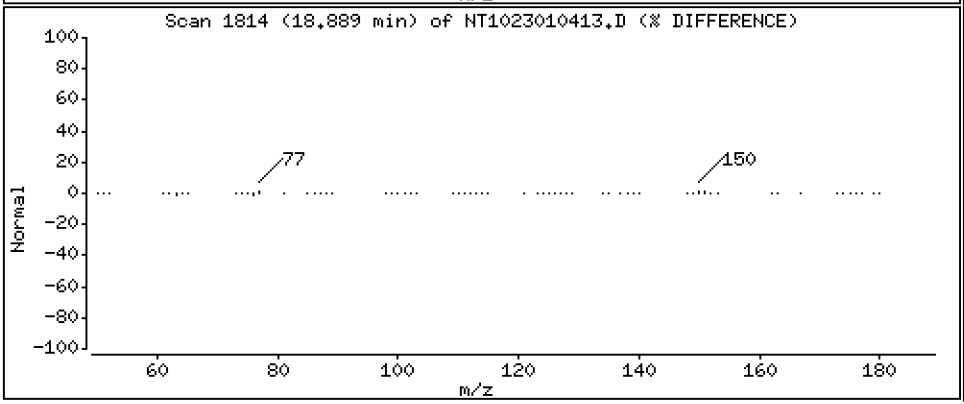












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

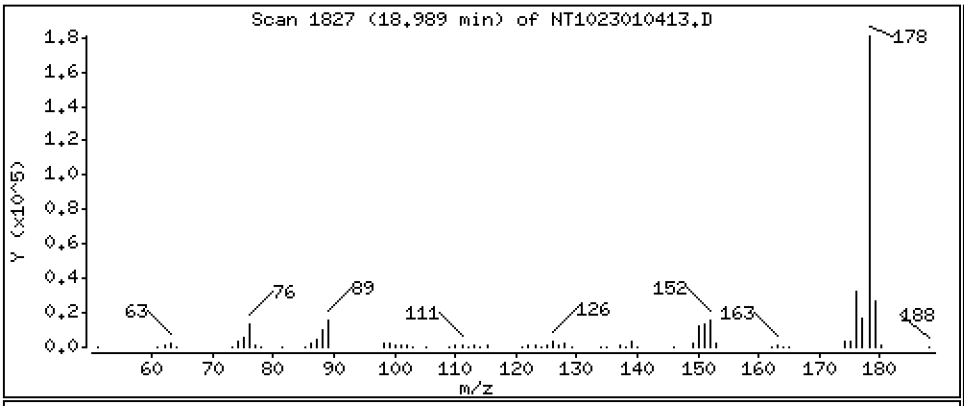
Operator: VTS

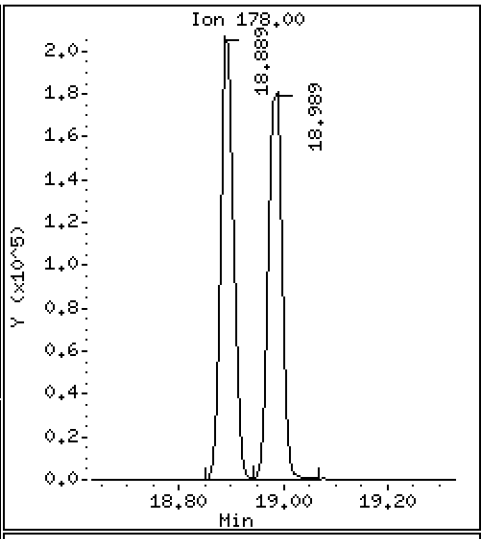
Column phase: ZB-5msi

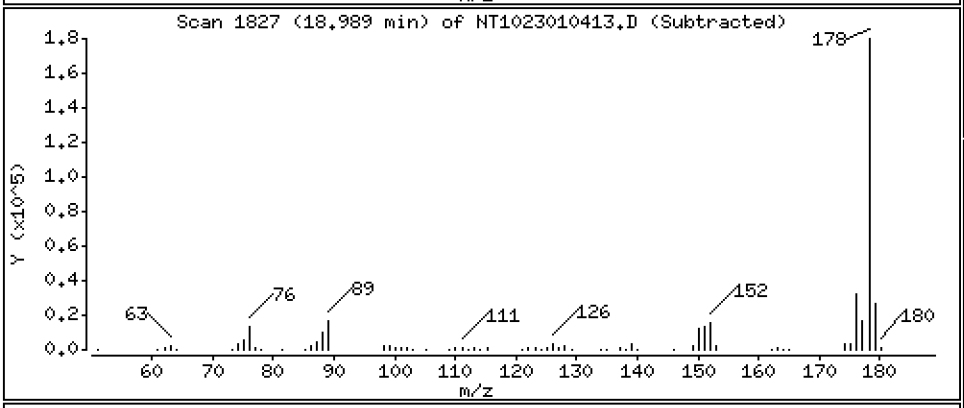
Column diameter: 0.25

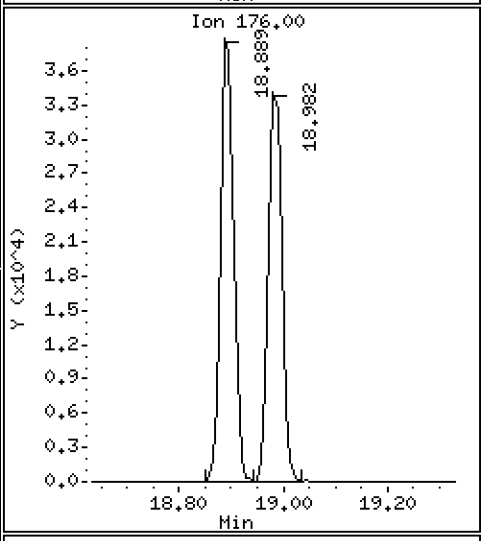
61 Anthracene

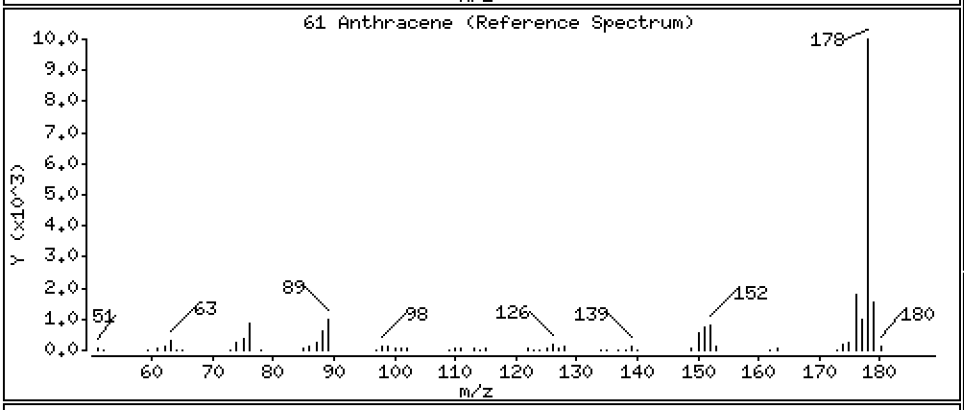
Concentration: 4.542 ug/mL

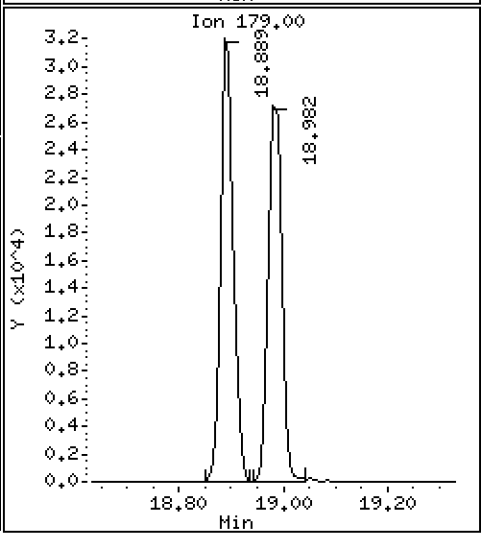


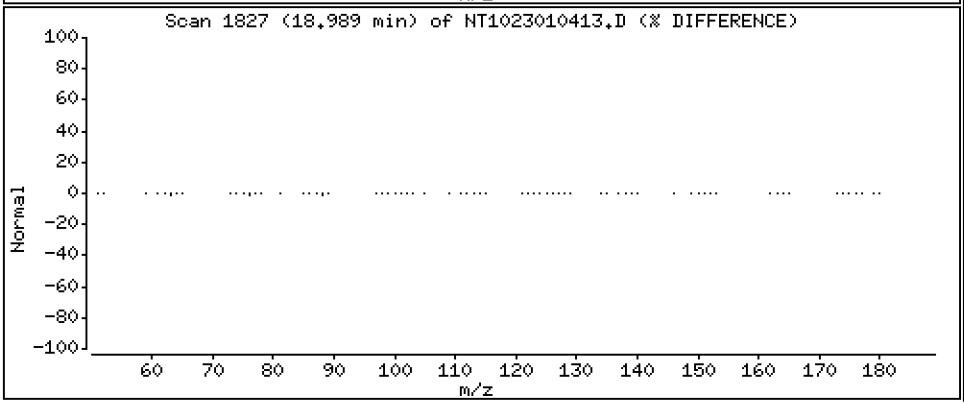












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

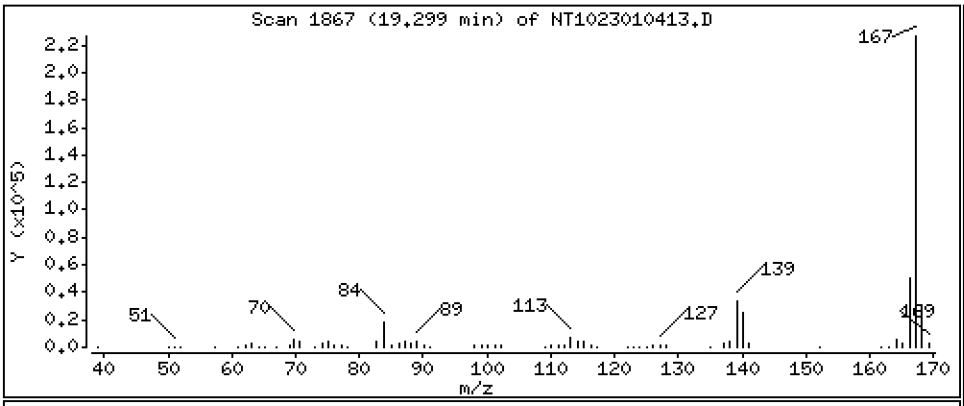
Operator: VTS

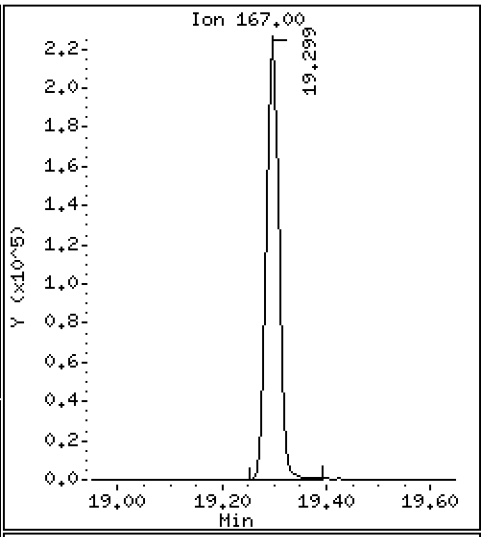
Column phase: ZB-5msi

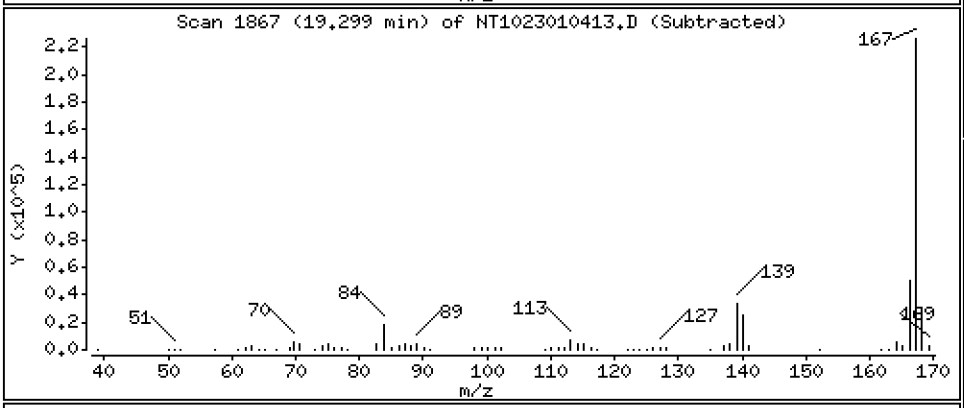
Column diameter: 0.25

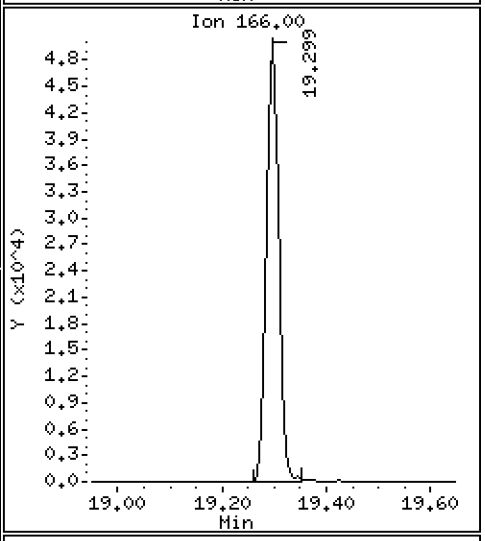
62 Carbazole

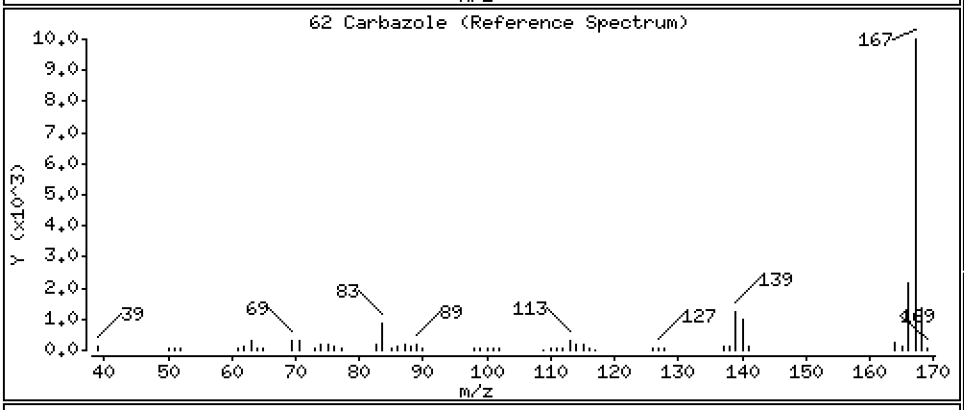
Concentration: 4.823 ug/mL

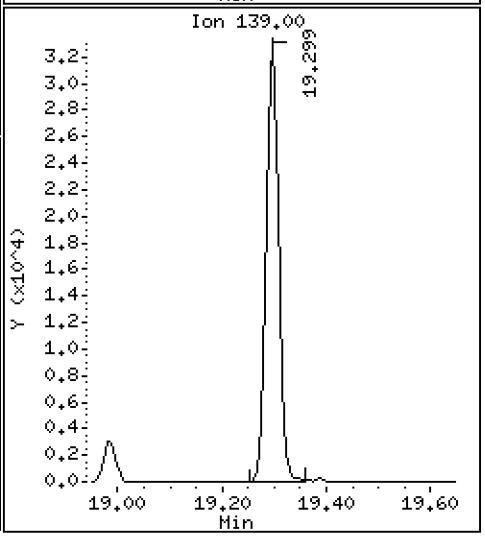


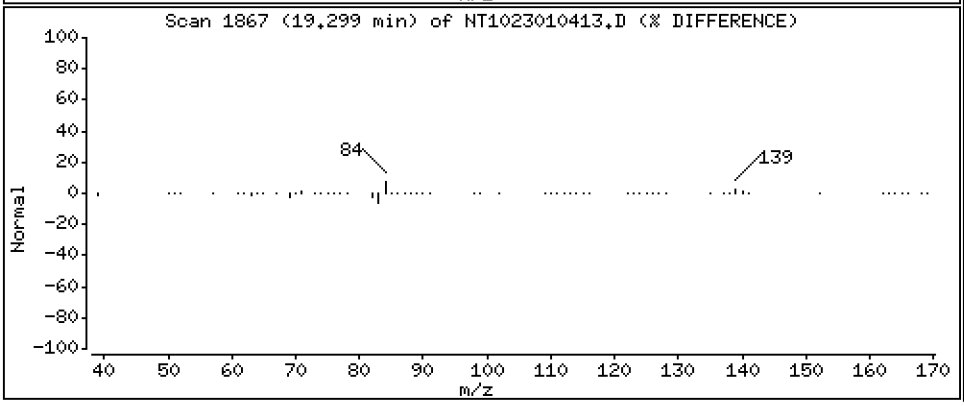












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

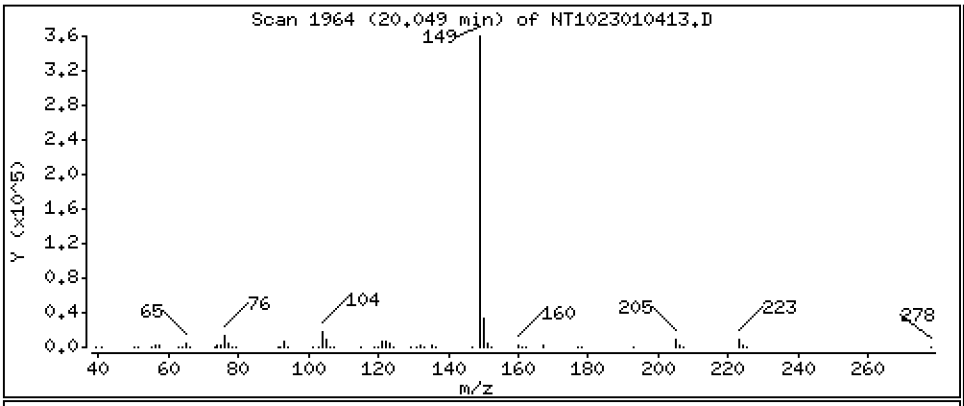
Operator: VTS

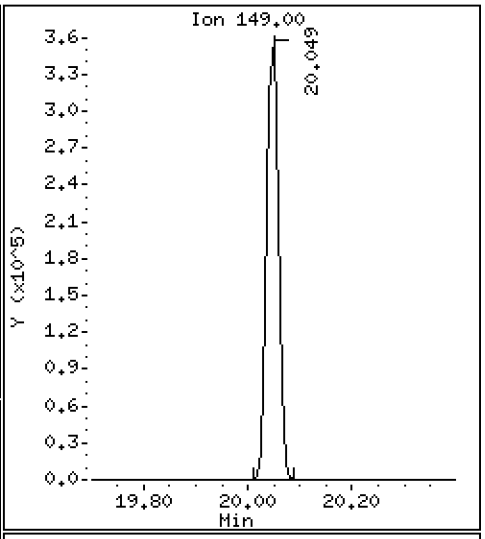
Column phase: ZB-5msi

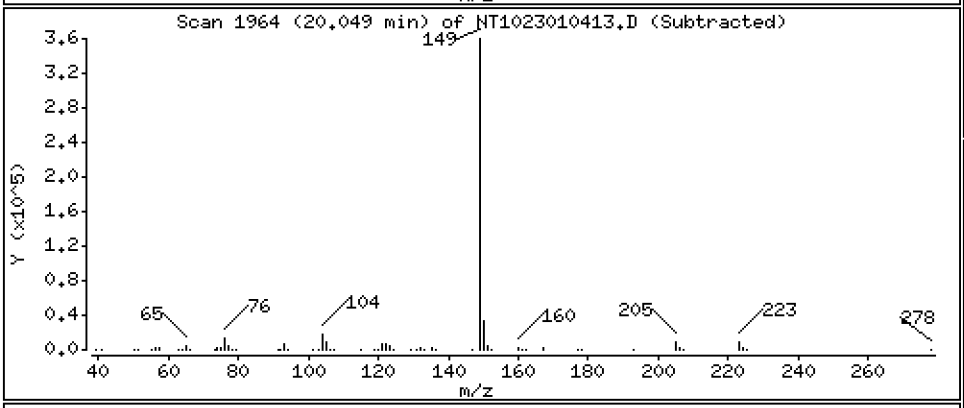
Column diameter: 0.25

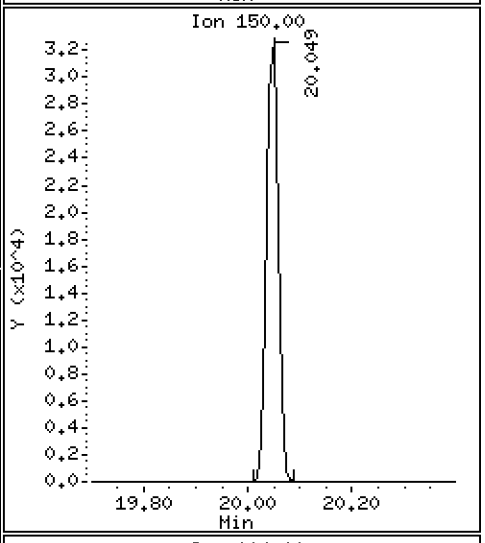
63 Di-n-butylphthalate

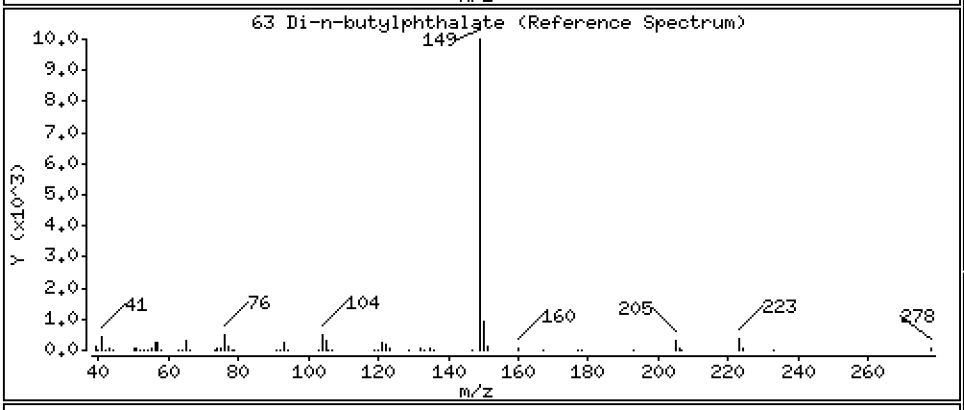
Concentration: 5.130 ug/mL

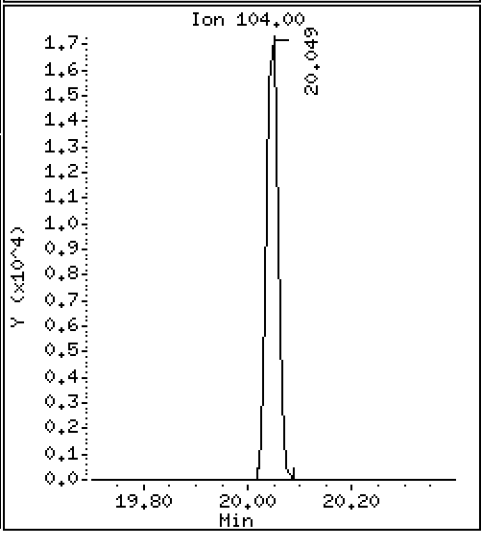


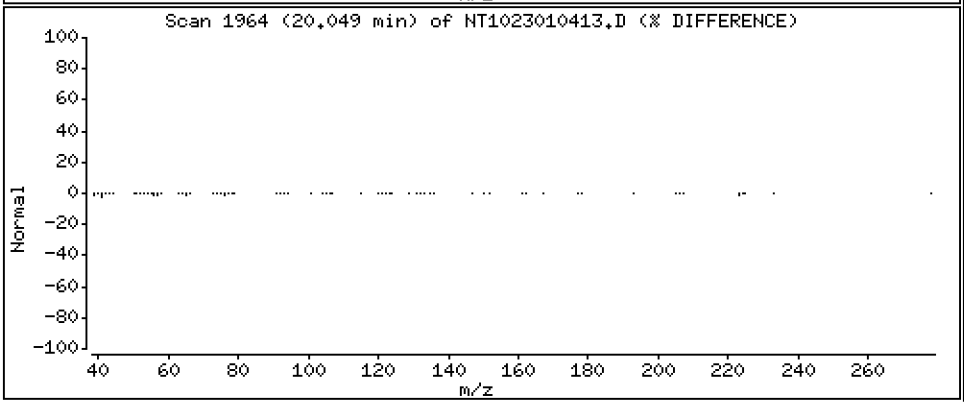












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

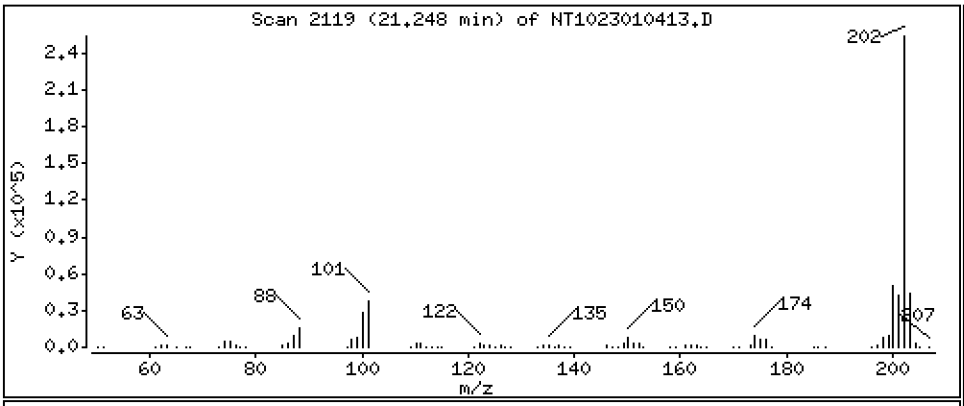
Operator: VTS

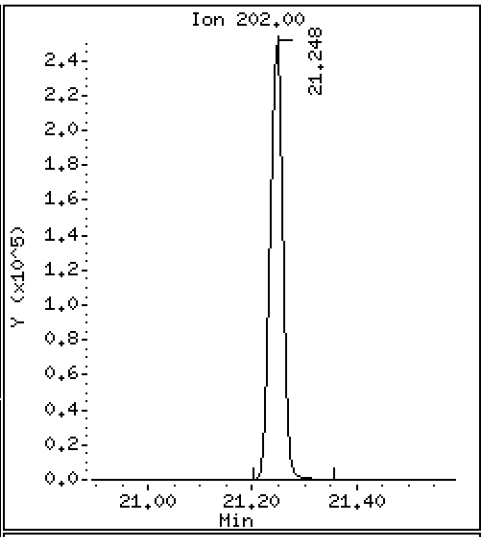
Column phase: ZB-5msi

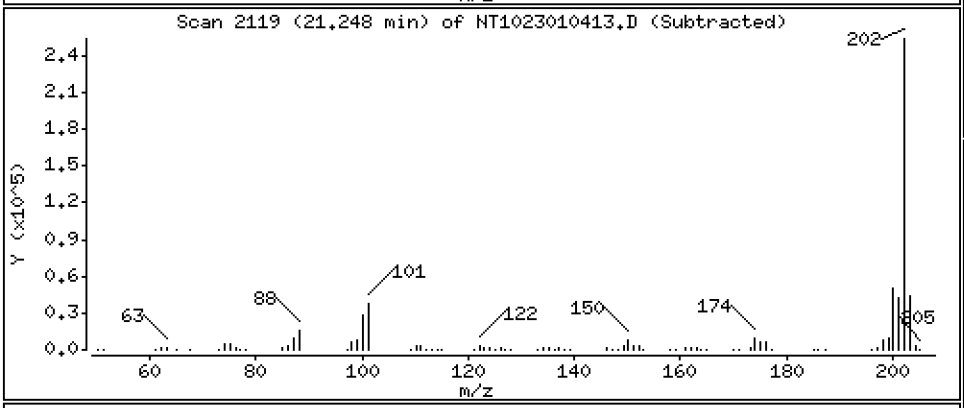
Column diameter: 0.25

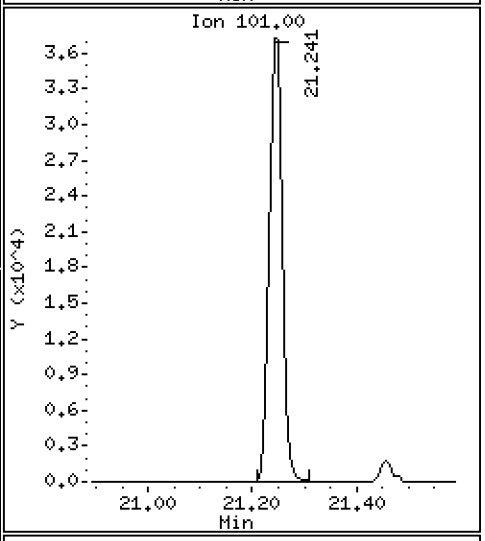
64 Fluoranthene

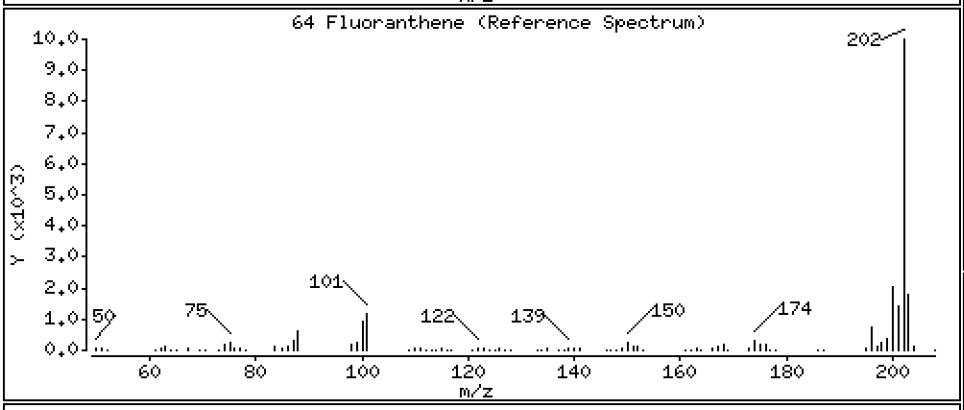
Concentration: 5.425 ug/mL

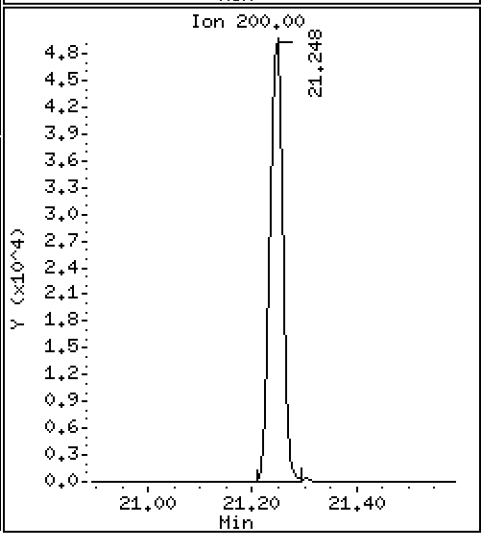


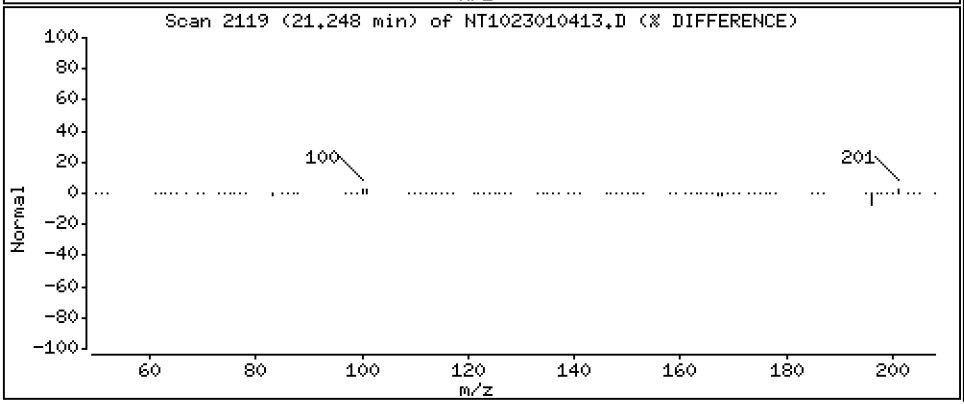












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

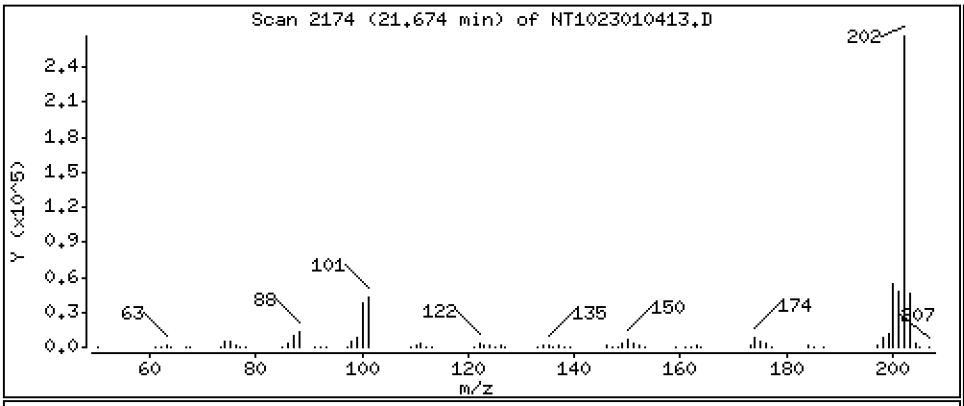
Operator: VTS

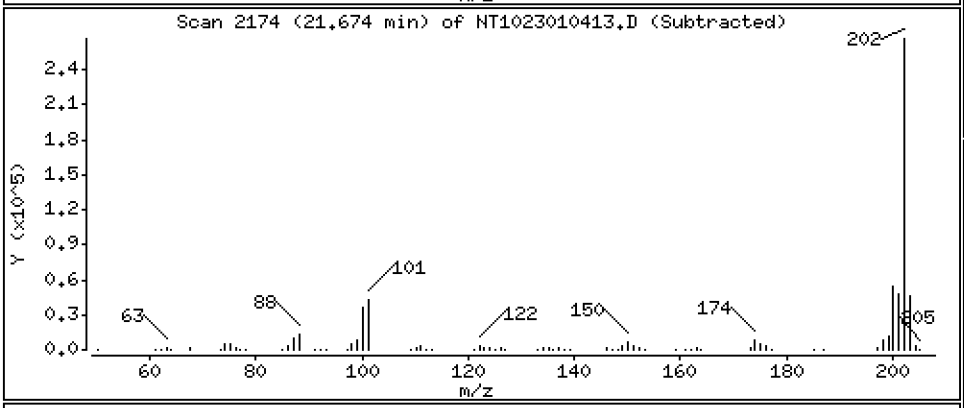
Column phase: ZB-5msi

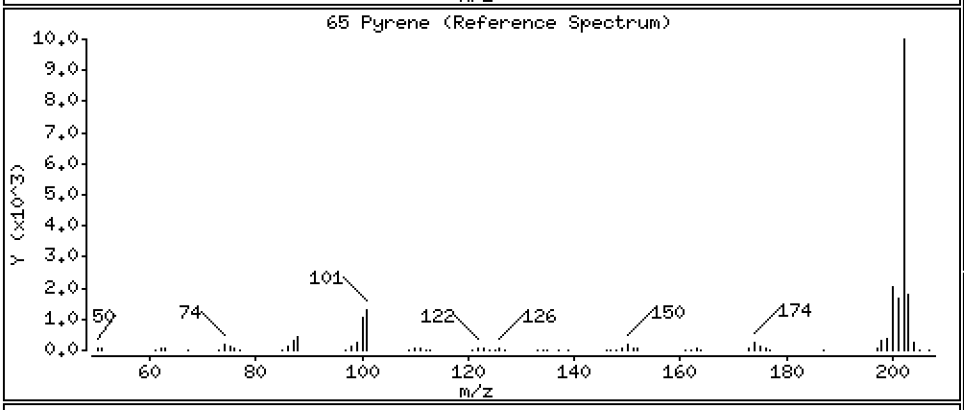
Column diameter: 0.25

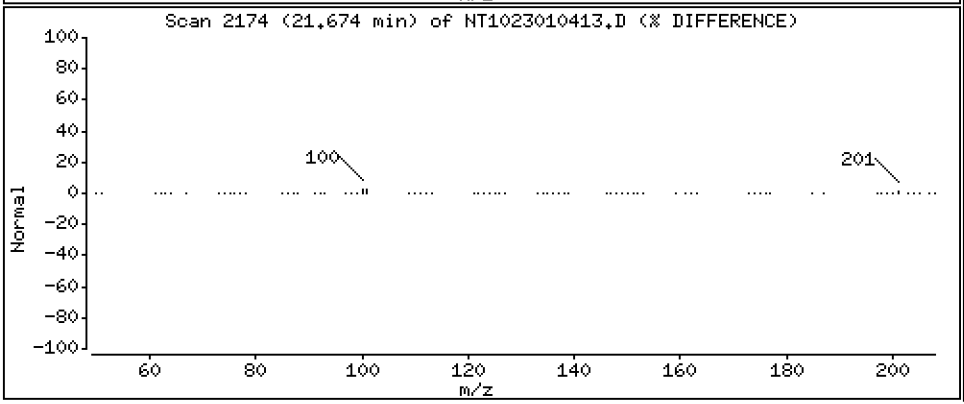
65 Pyrene

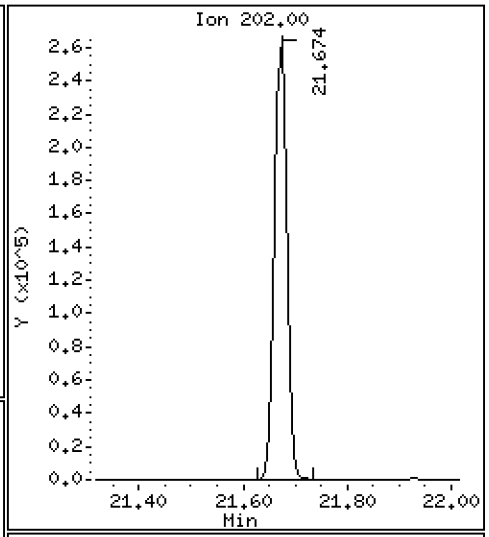
Concentration: 5.438 ug/mL

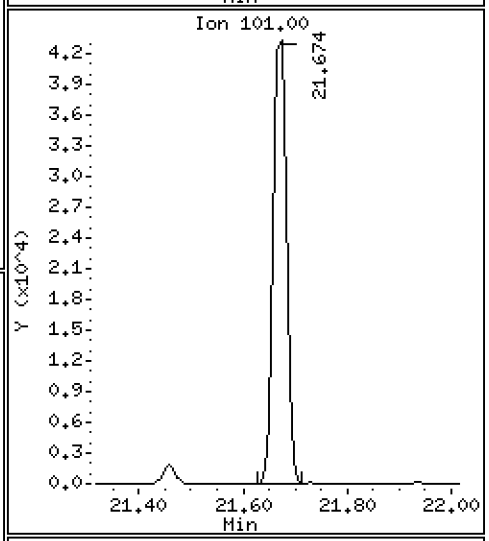


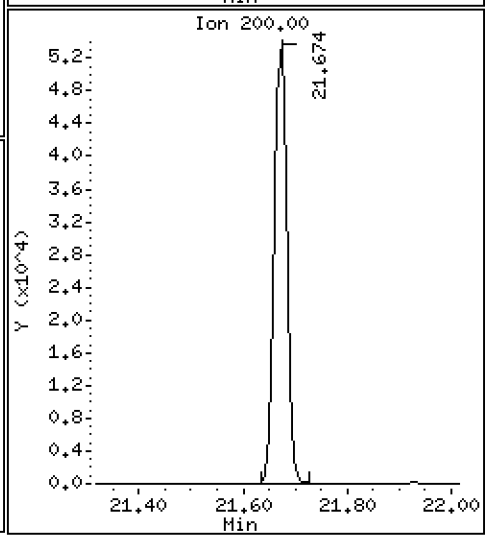












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

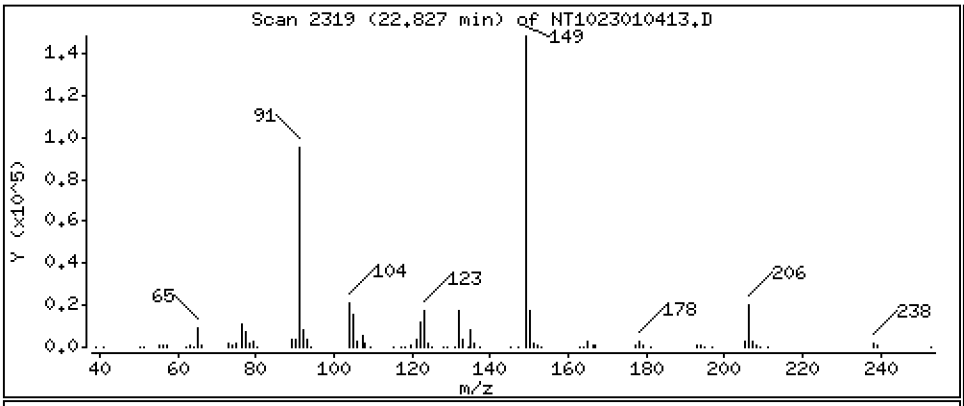
Operator: VTS

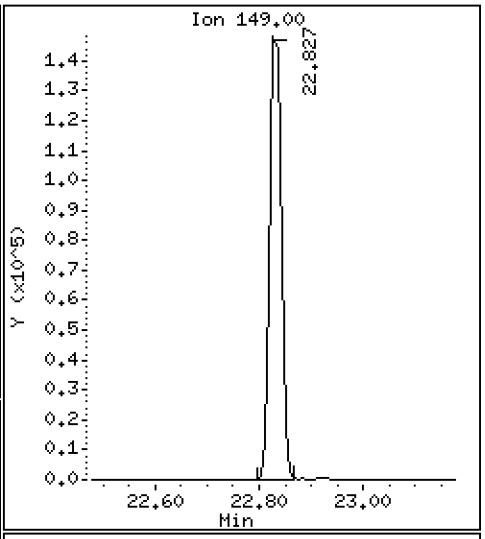
Column phase: ZB-5msi

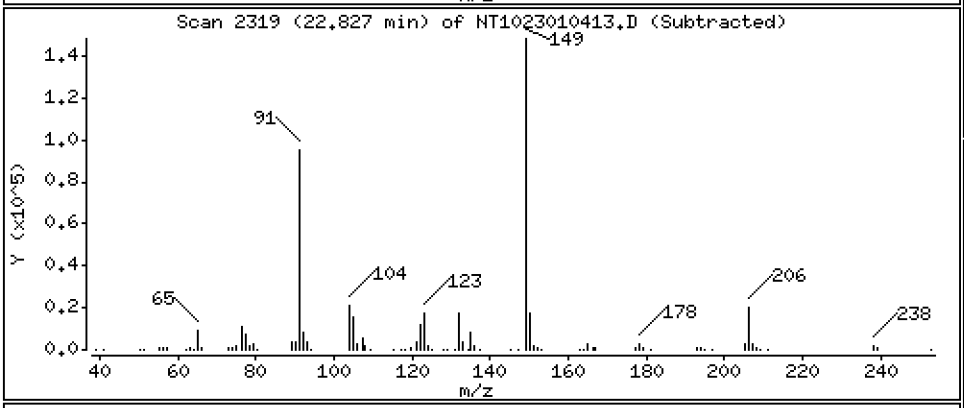
Column diameter: 0.25

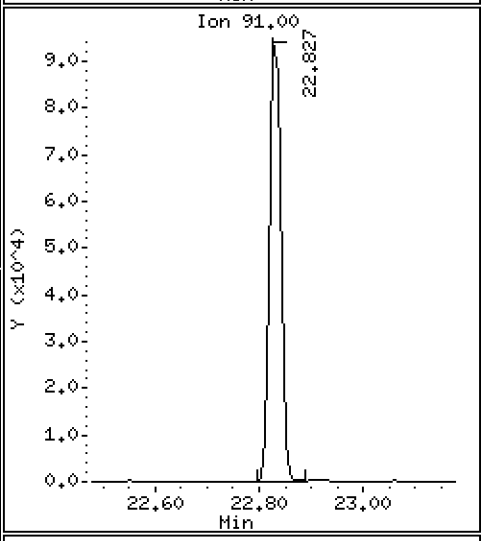
67 Butylbenzylphthalate

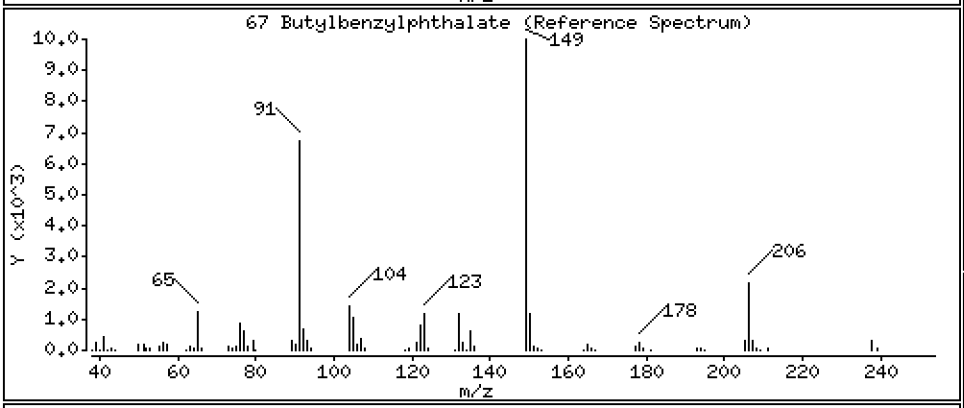
Concentration: 5.293 ug/mL

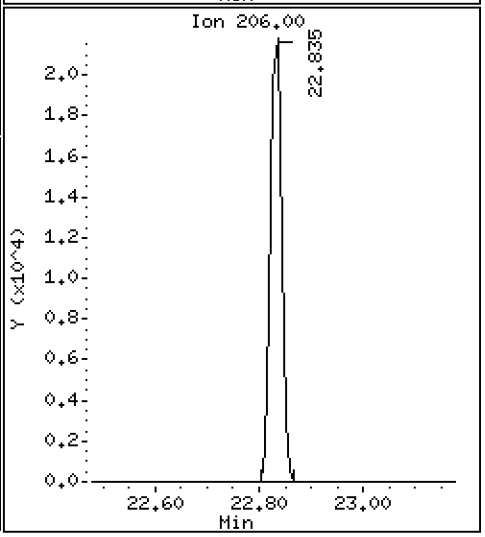


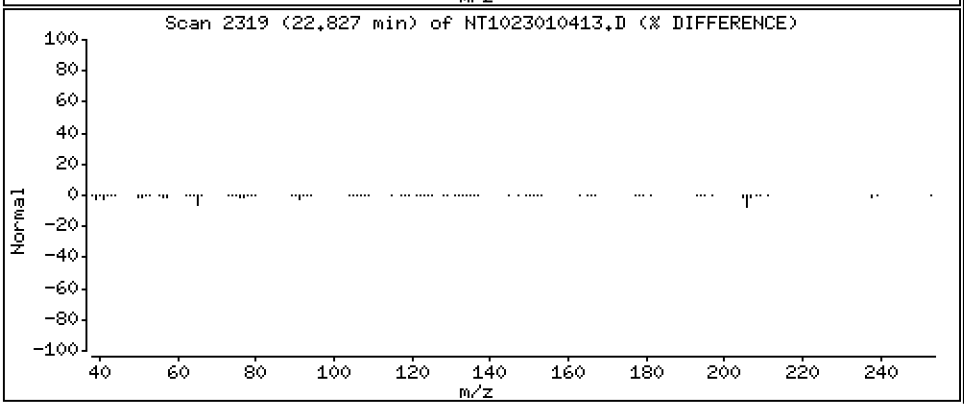












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

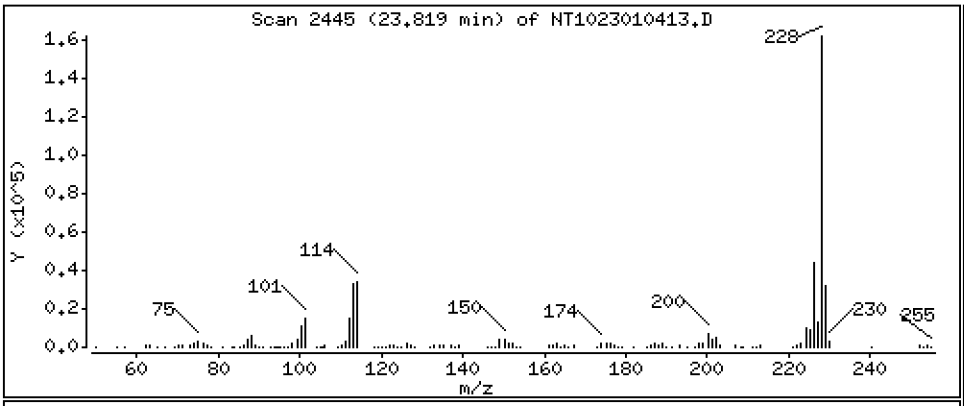
Operator: VTS

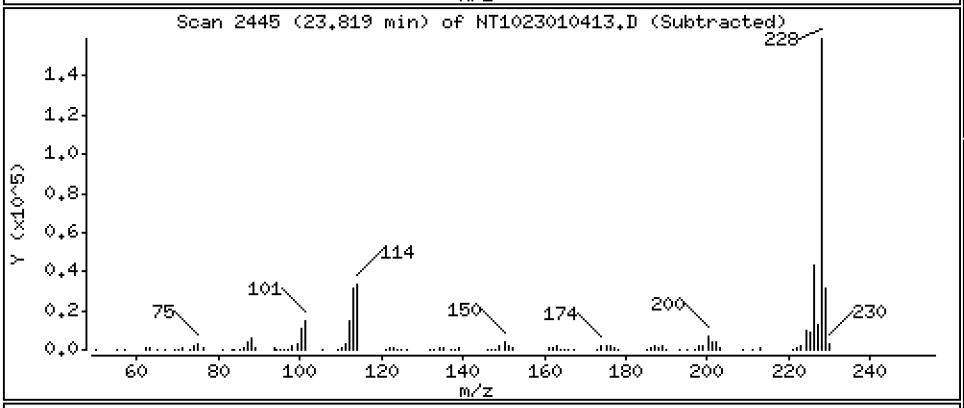
Column phase: ZB-5msi

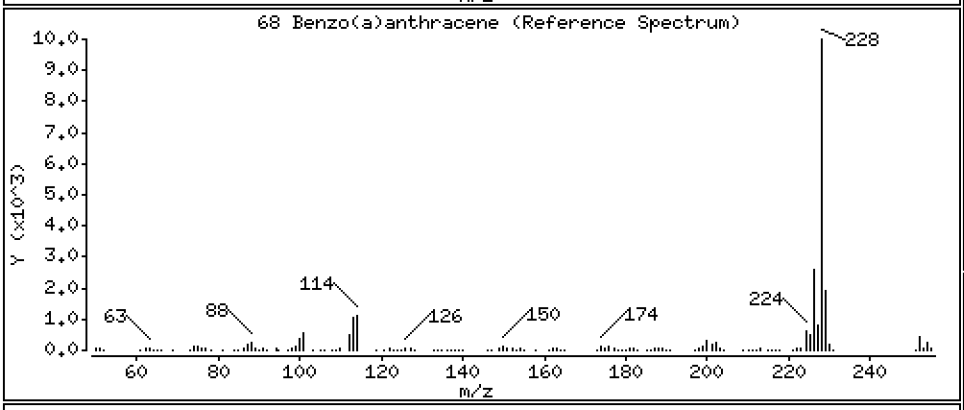
Column diameter: 0.25

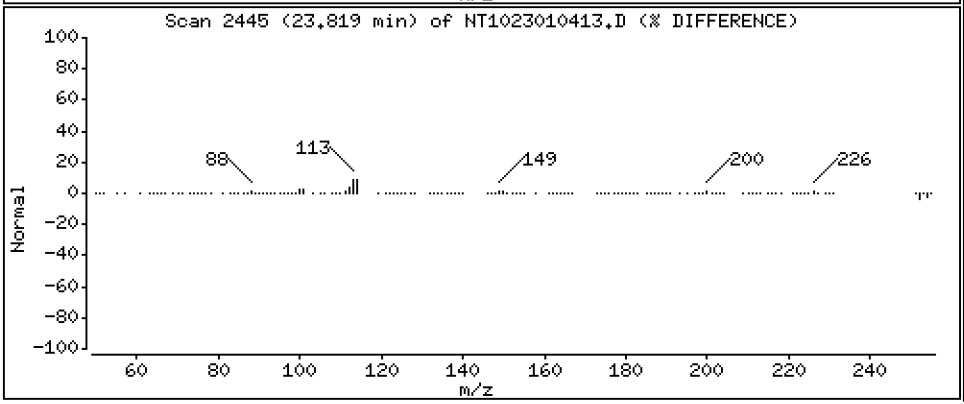
68 Benzo(a)anthracene

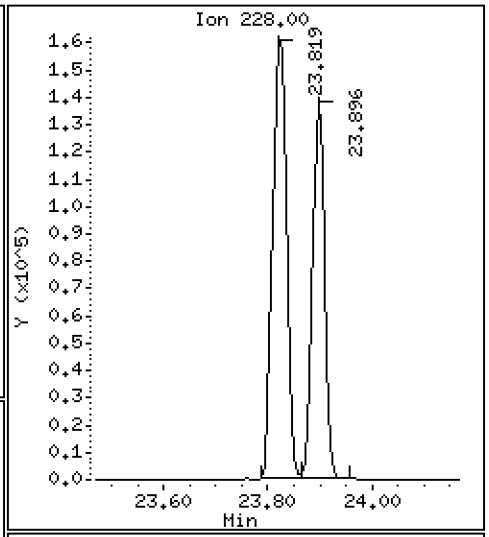
Concentration: 5.367 ug/mL

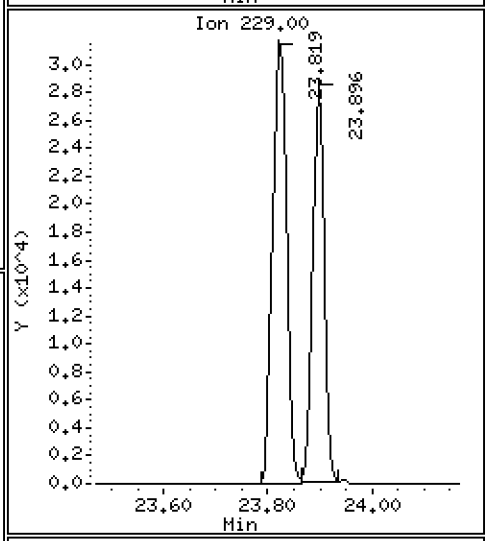


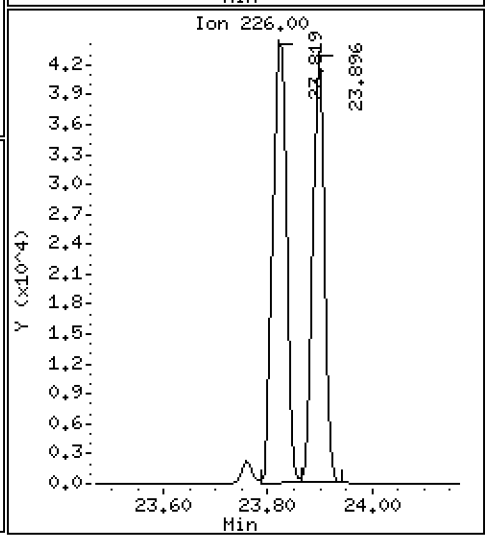












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

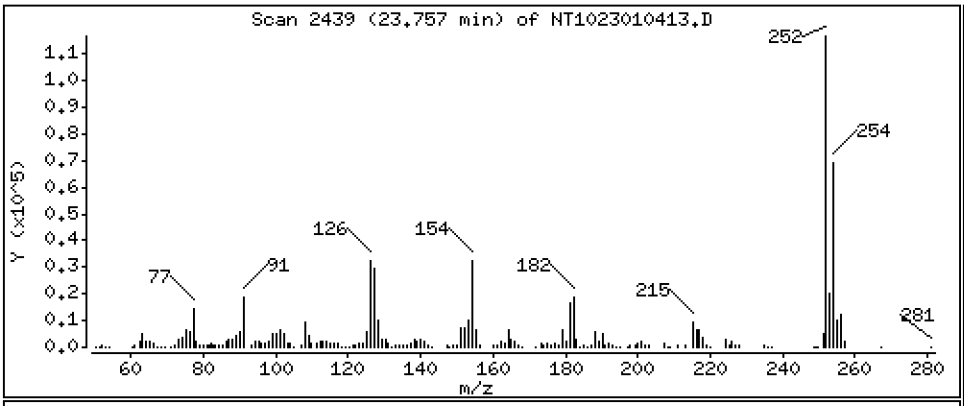
Operator: VTS

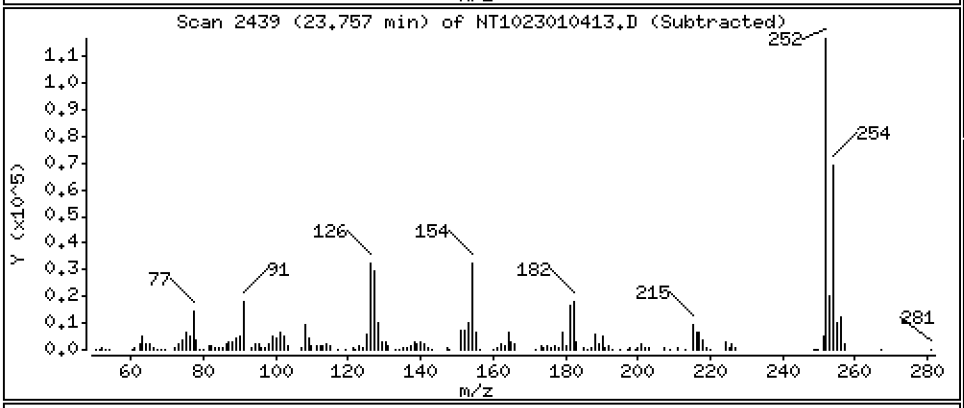
Column phase: ZB-5msi

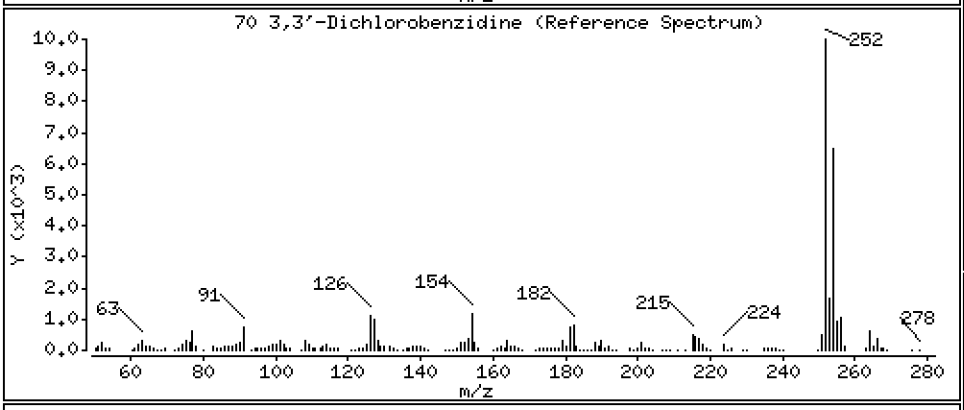
Column diameter: 0.25

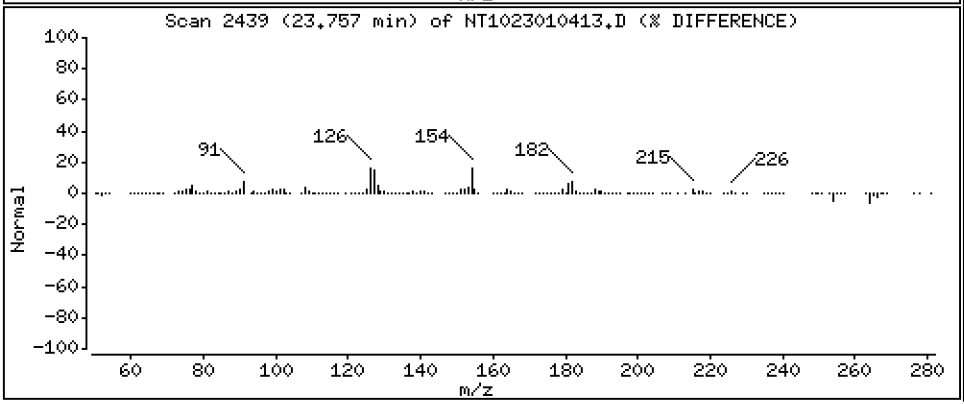
70 3,3'-Dichlorobenzidine

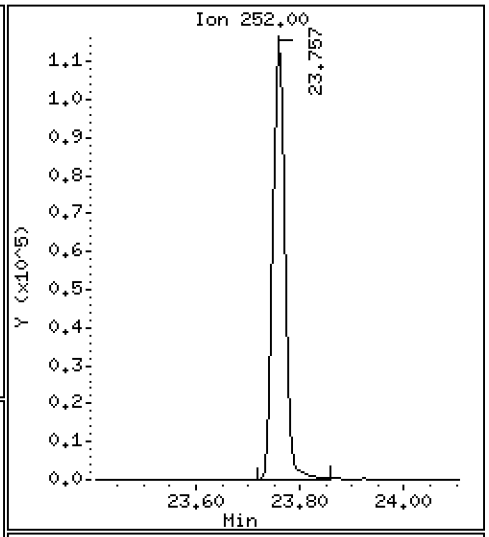
Concentration: 10.55 ug/mL

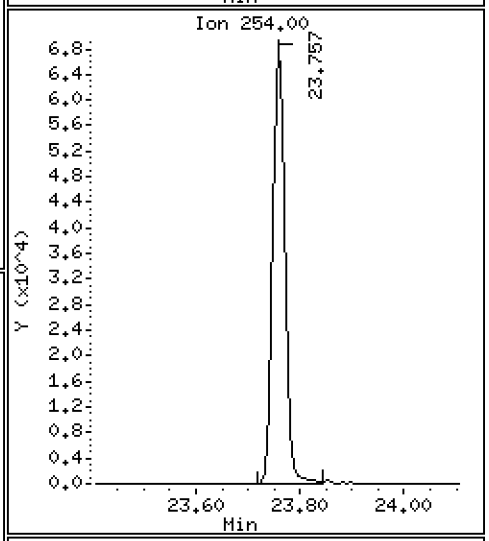


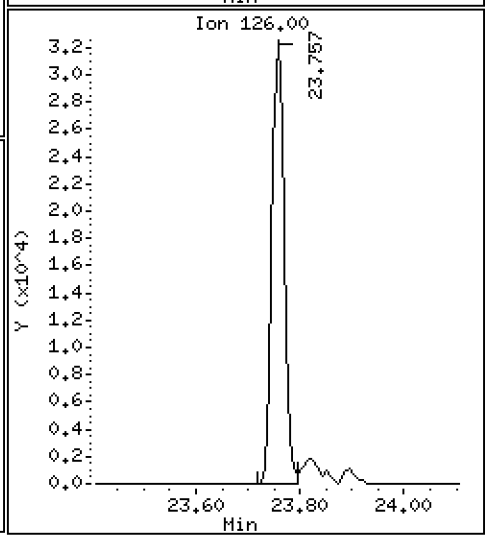












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

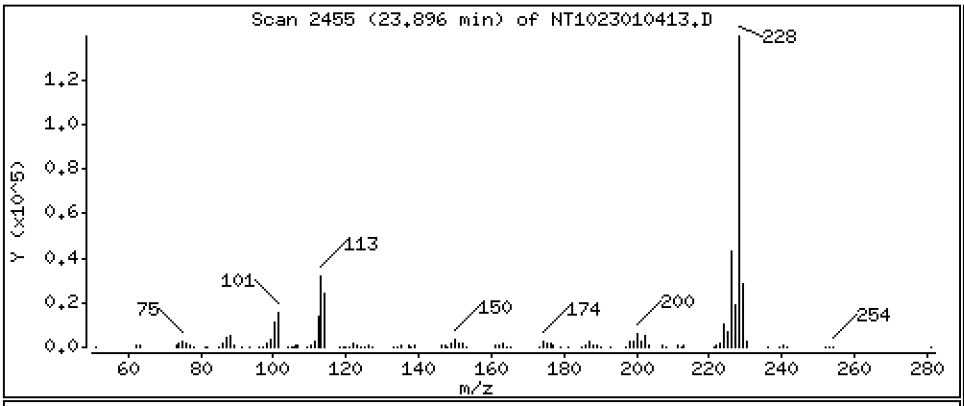
Operator: VTS

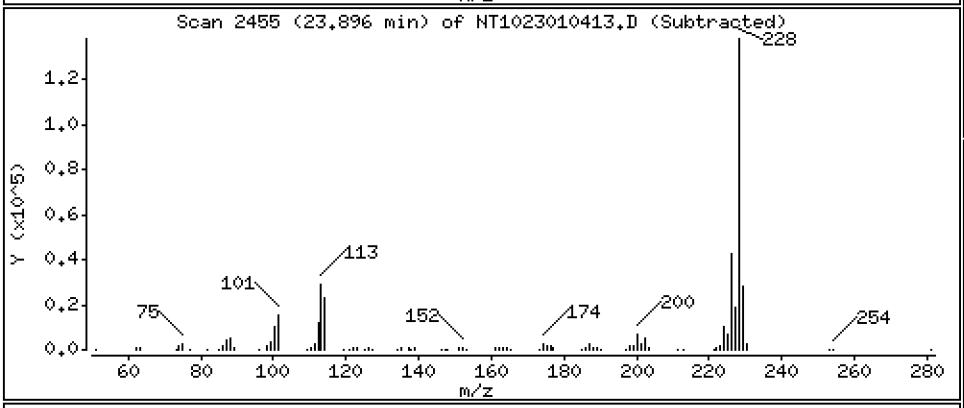
Column phase: ZB-5msi

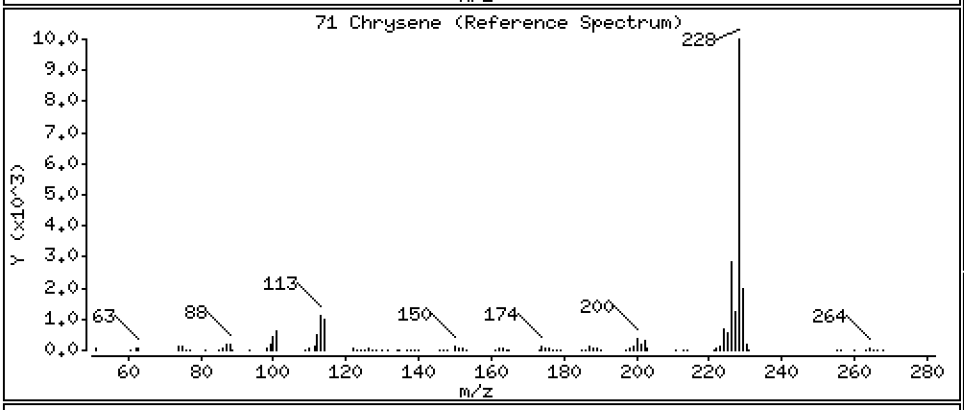
Column diameter: 0.25

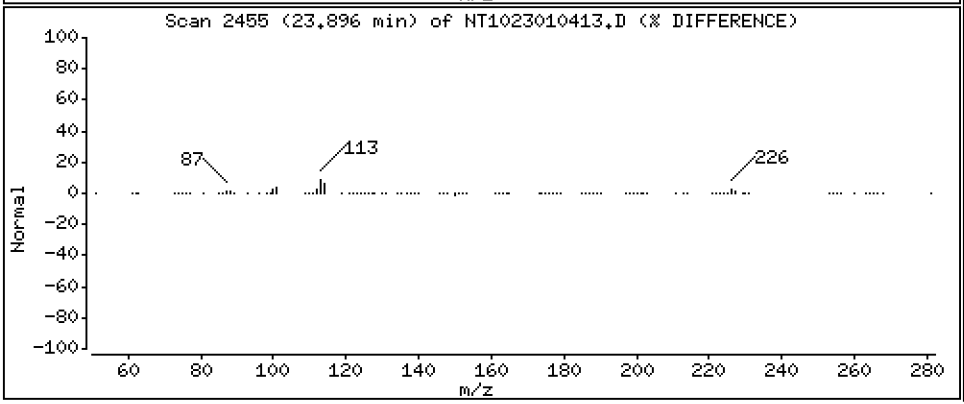
71 Chrysene

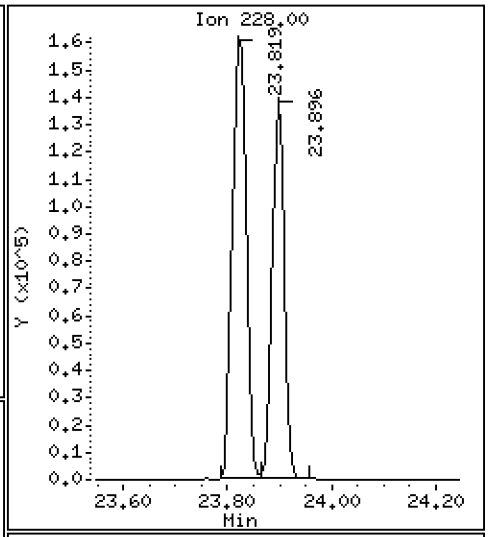
Concentration: 4.662 ug/mL

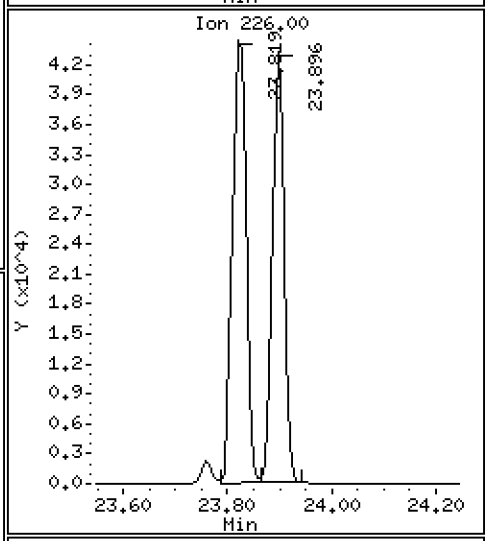


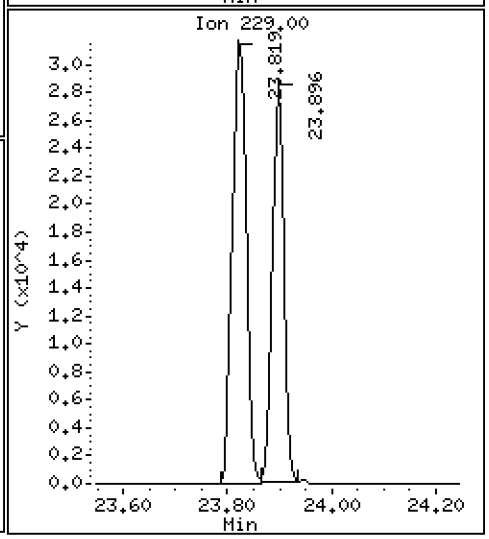












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

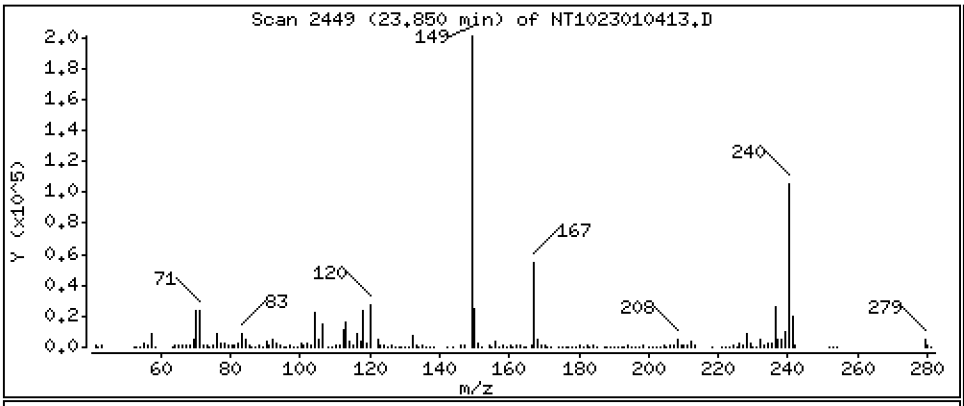
Operator: VTS

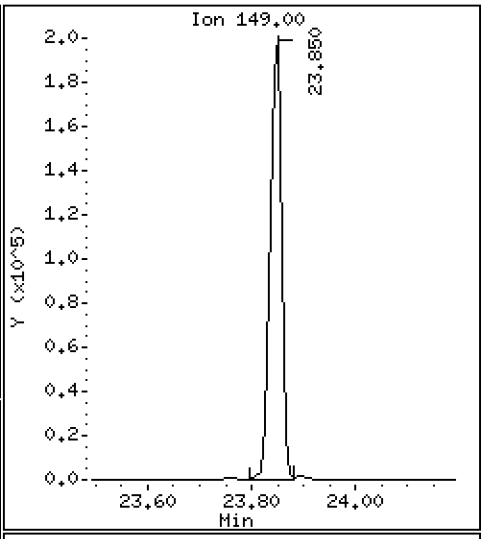
Column phase: ZB-5msi

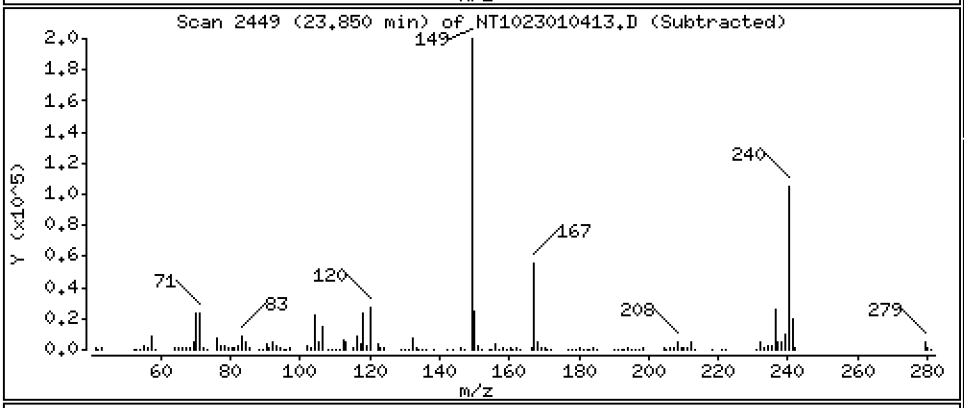
Column diameter: 0.25

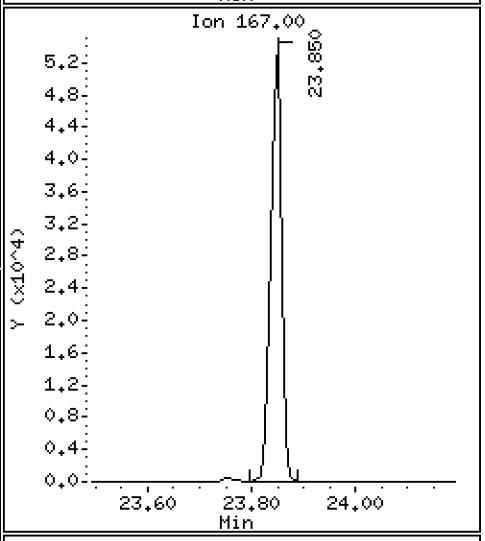
72 bis(2-Ethylhexyl)phthalate

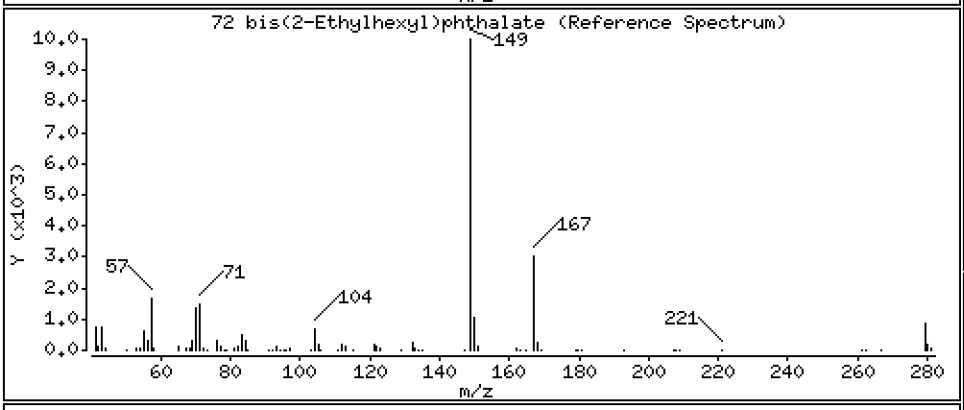
Concentration: 5.281 ug/mL

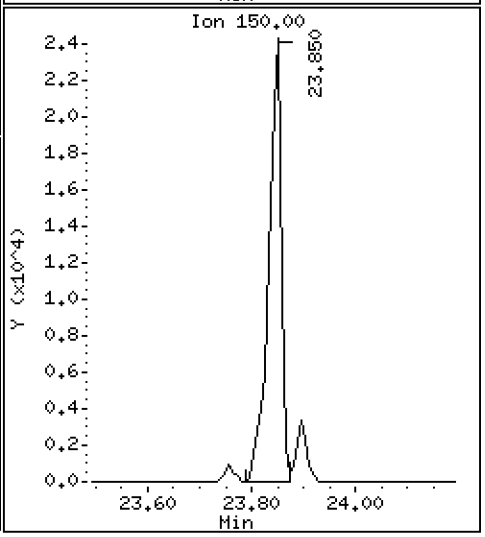


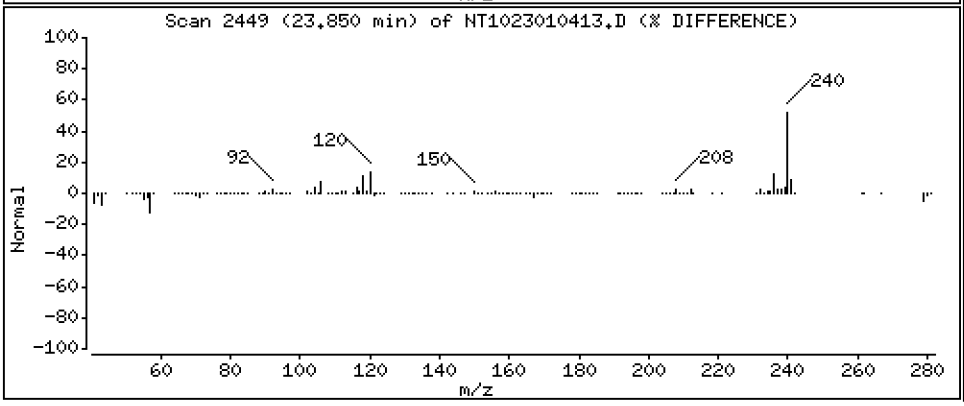












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

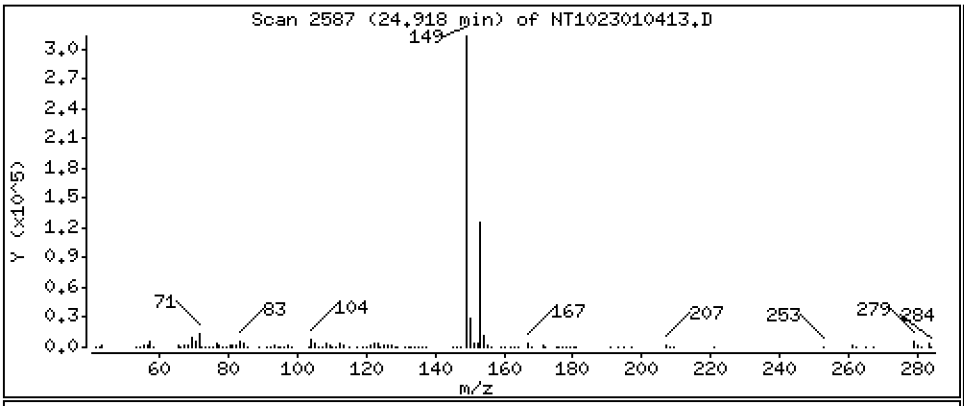
Operator: VTS

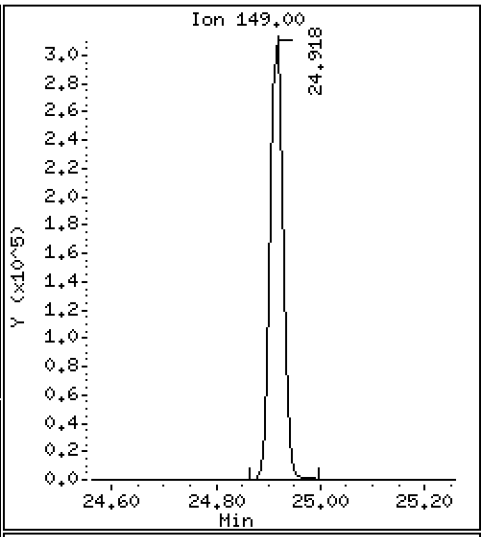
Column phase: ZB-5msi

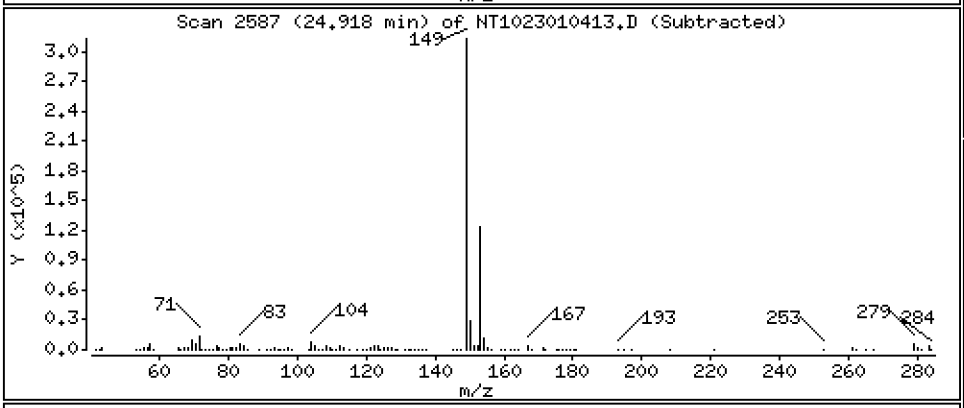
Column diameter: 0.25

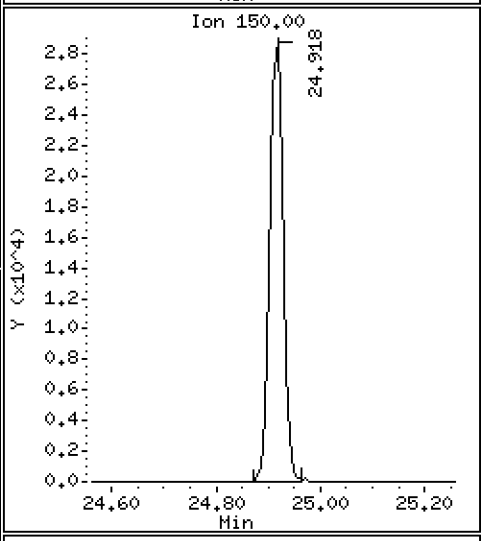
73 Di-n-octylphthalate

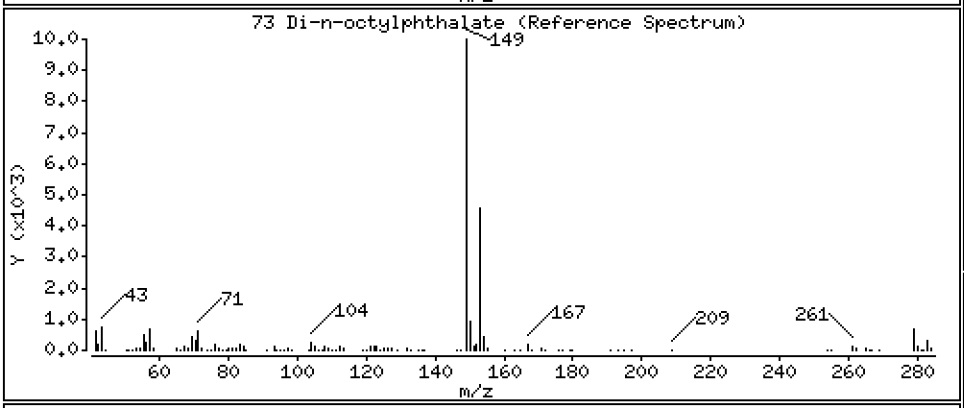
Concentration: 5.052 ug/mL

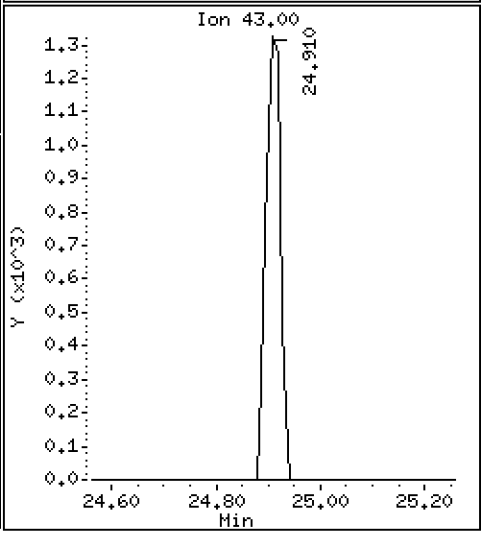


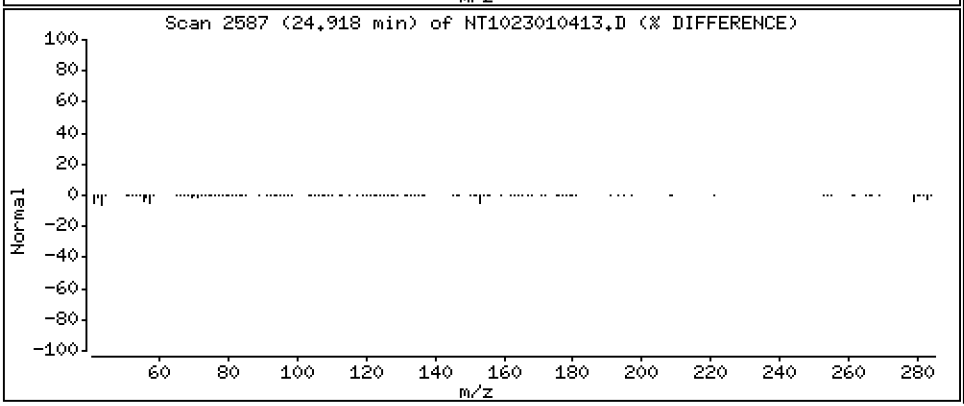












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

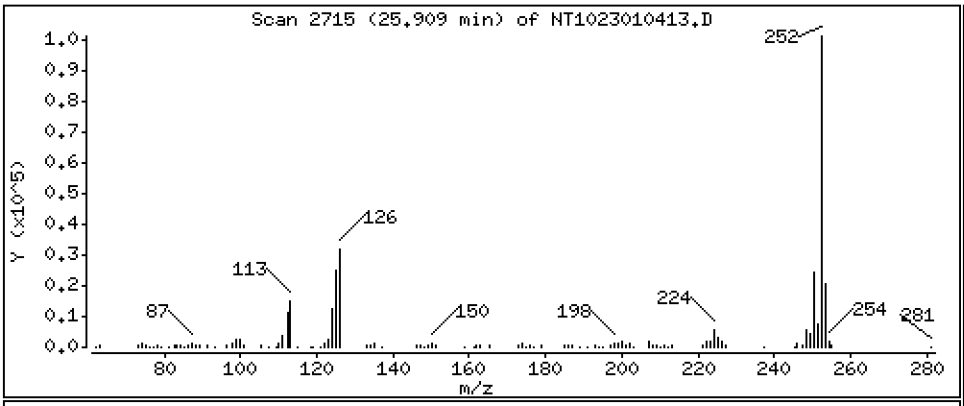
Operator: VTS

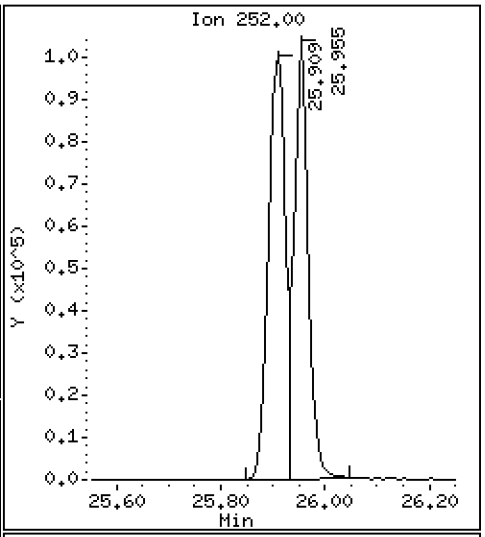
Column phase: ZB-5msi

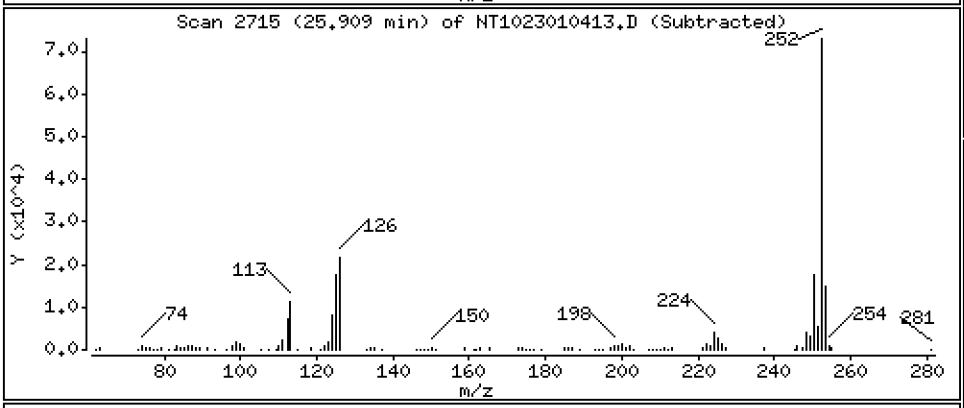
Column diameter: 0.25

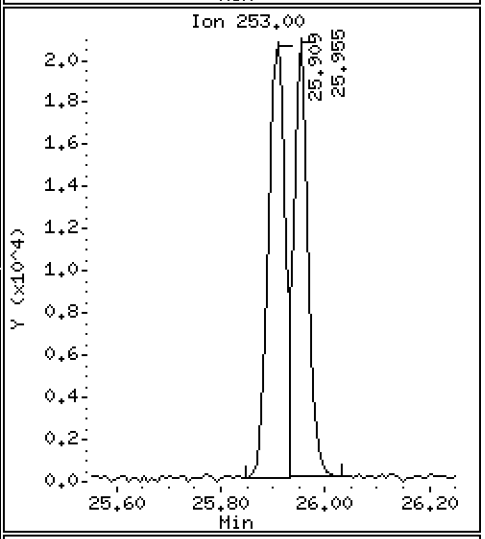
74 Benzo(b)fluoranthene

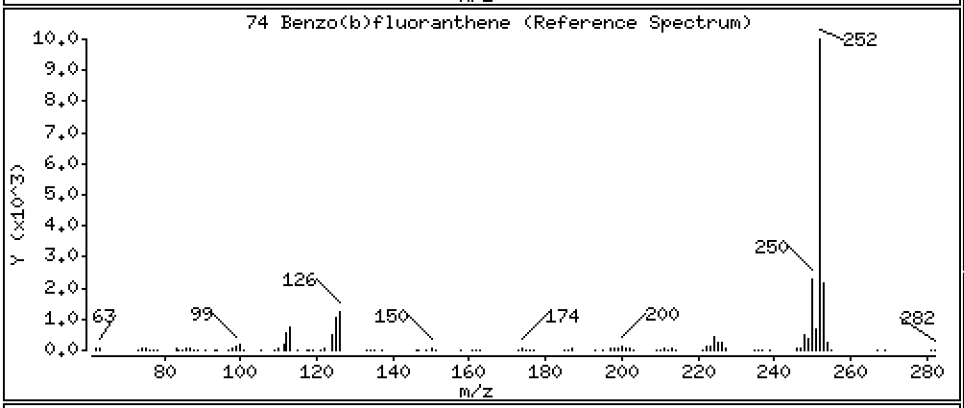
Concentration: 5.488 ug/mL

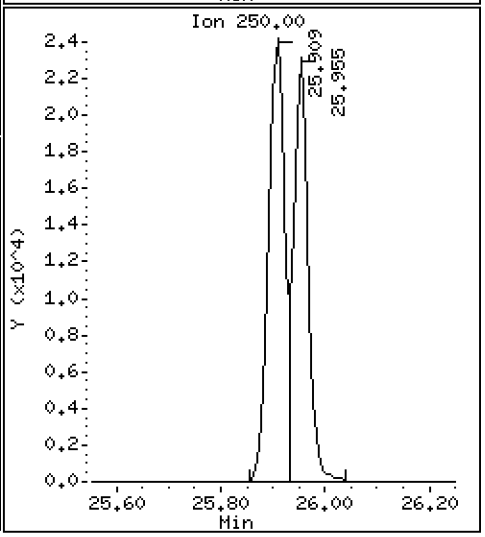


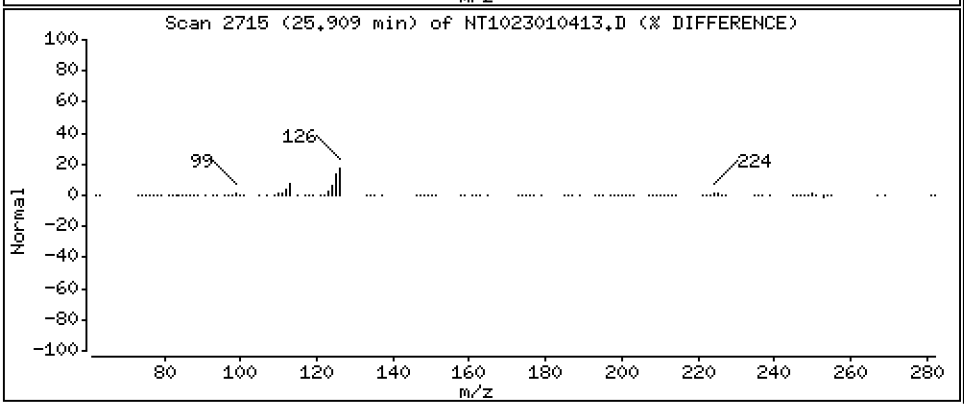












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

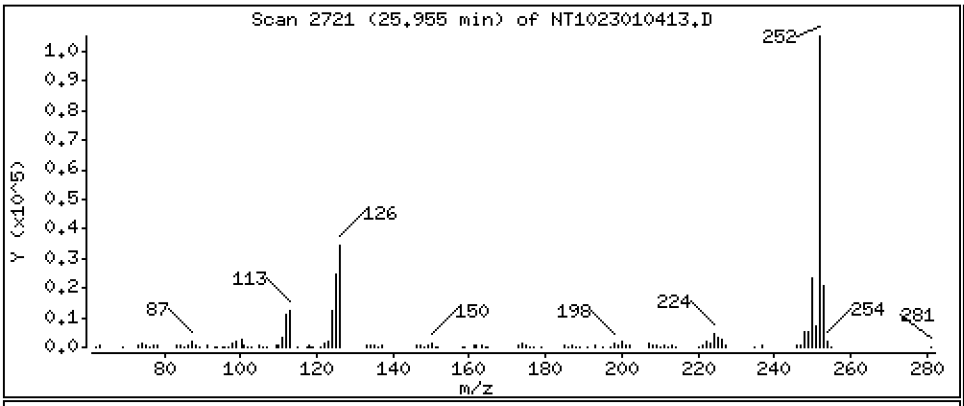
Operator: VTS

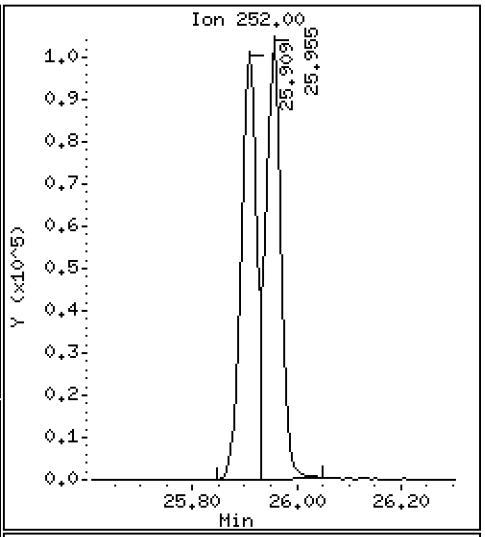
Column phase: ZB-5msi

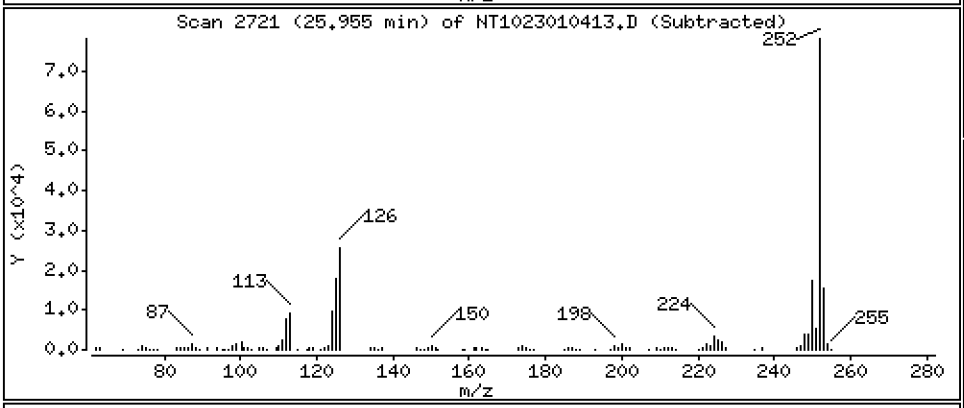
Column diameter: 0.25

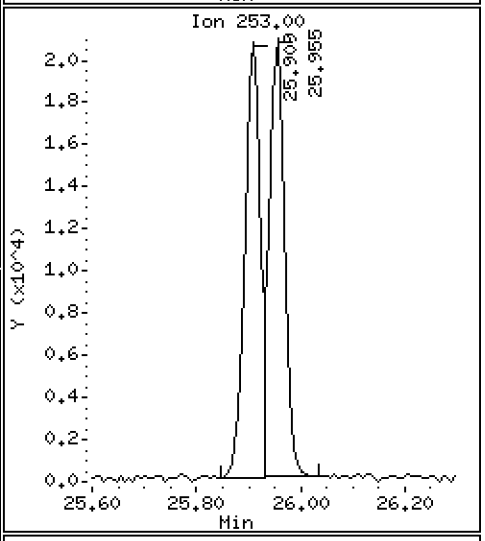
75 Benzo(k)fluoranthene

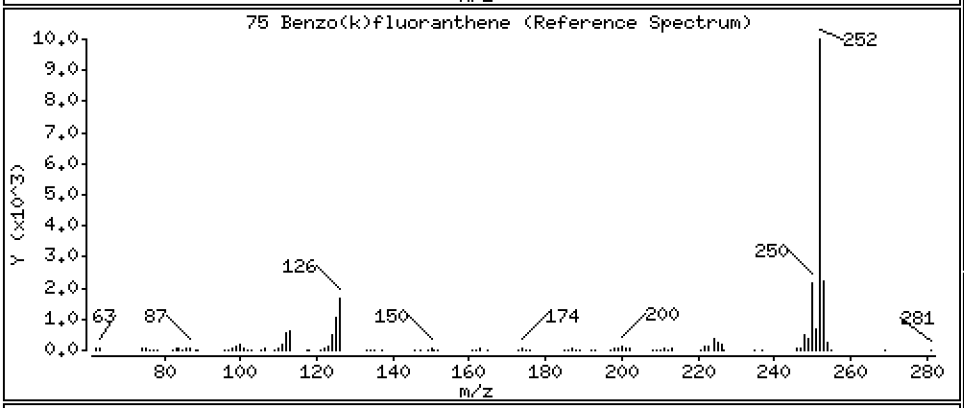
Concentration: 5.183 ug/mL

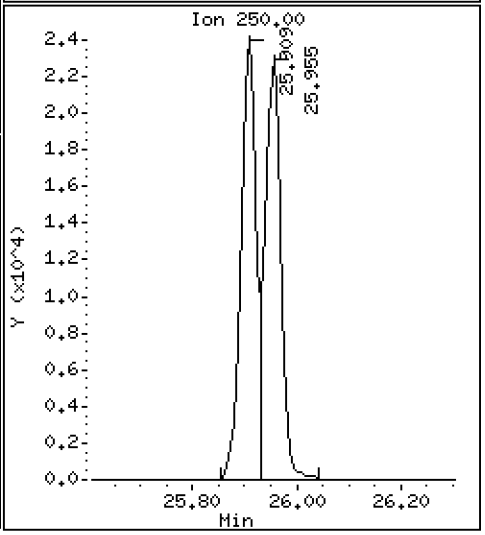


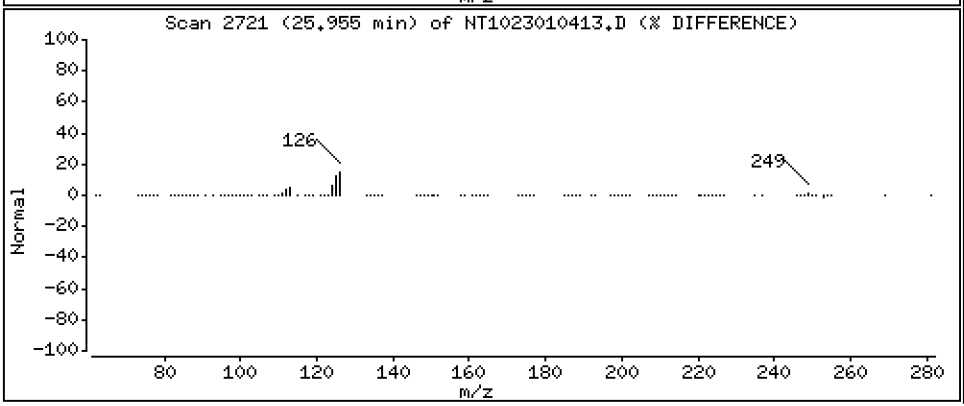












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

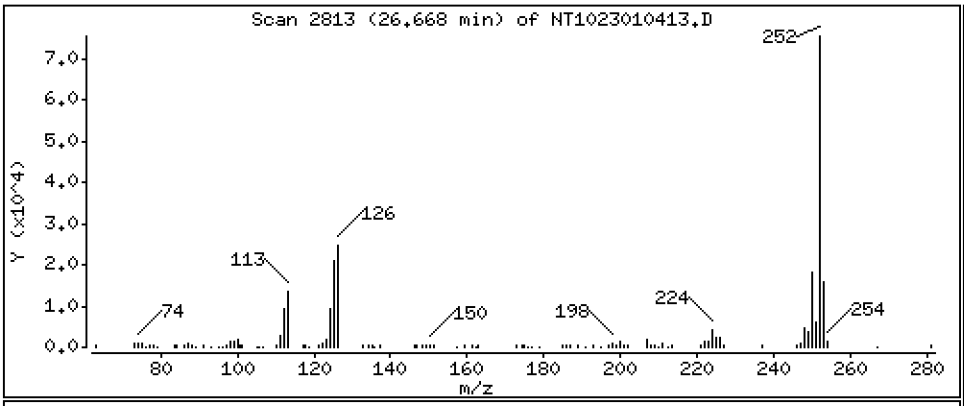
Operator: VTS

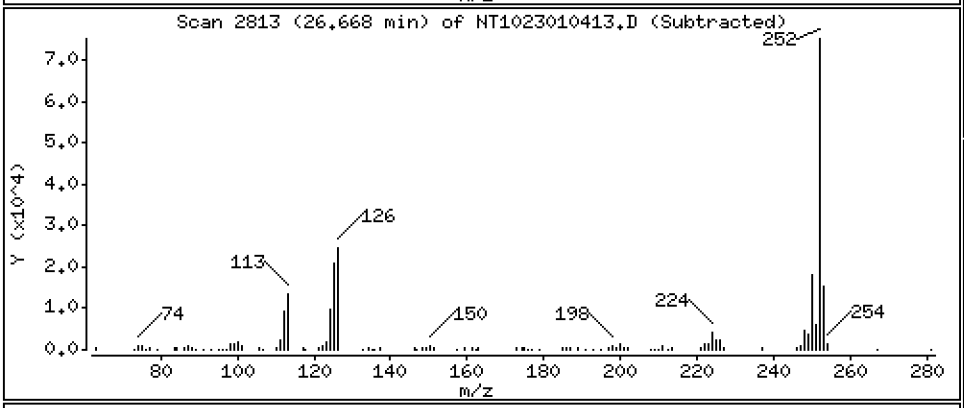
Column phase: ZB-5msi

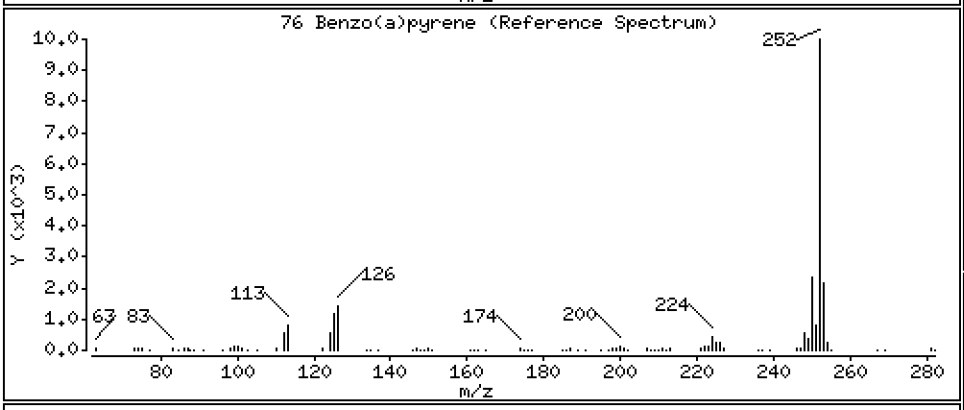
Column diameter: 0.25

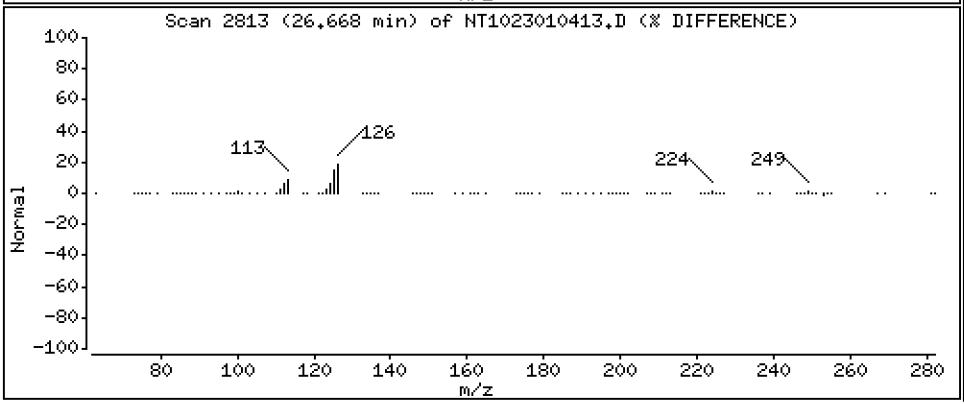
76 Benzo(a)pyrene

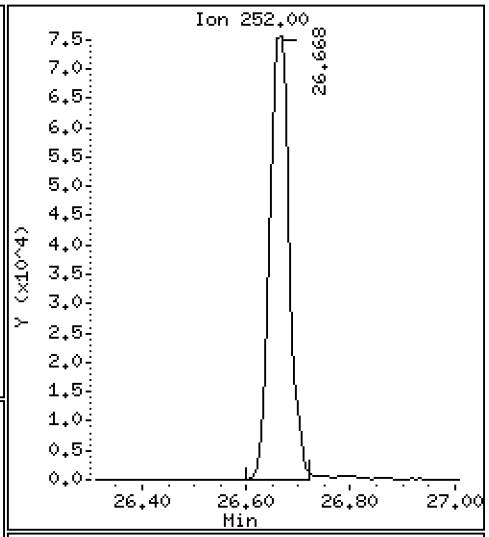
Concentration: 5.365 ug/mL

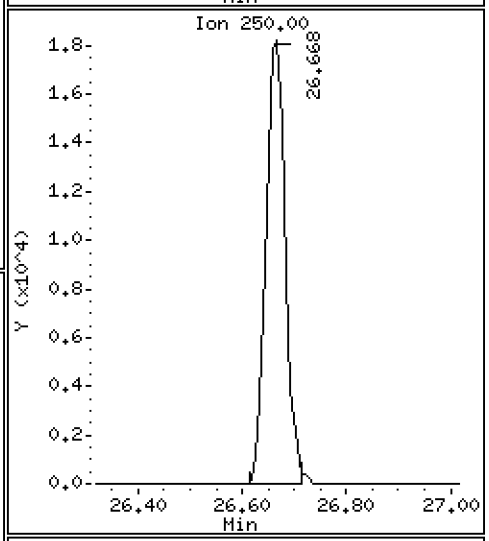


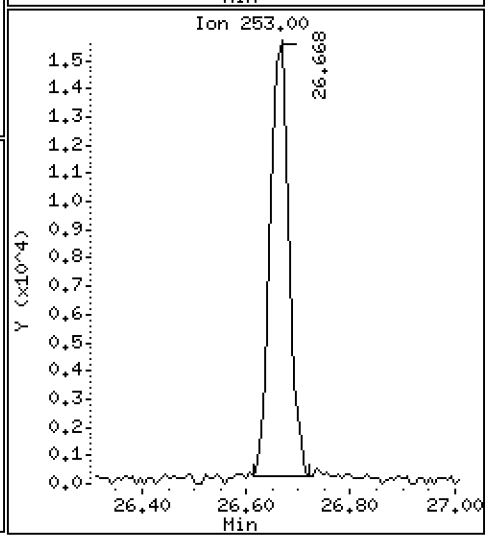












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

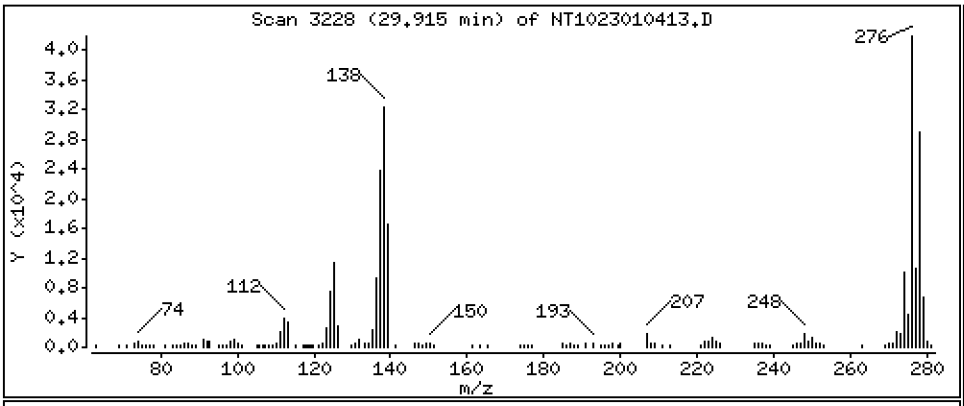
Operator: VTS

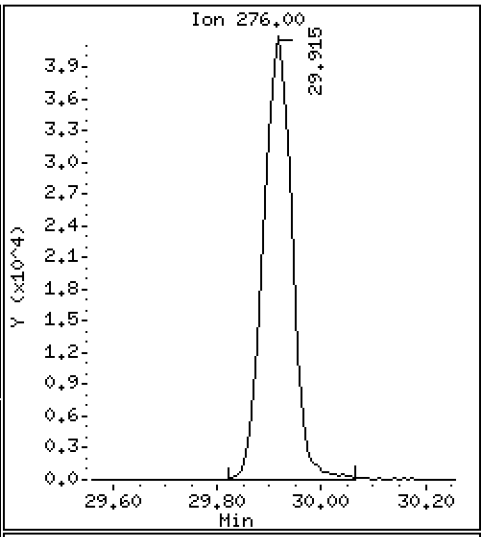
Column phase: ZB-5msi

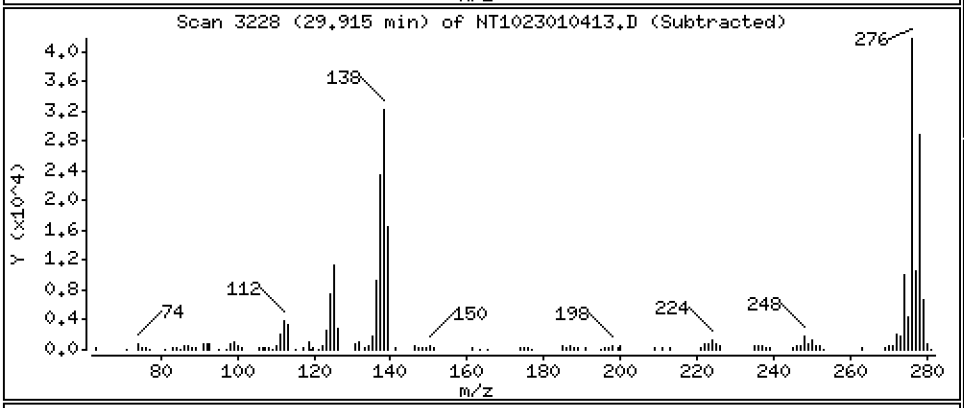
Column diameter: 0.25

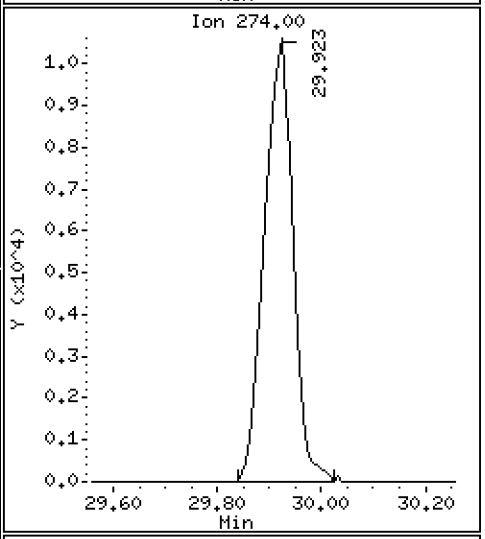
78 Indeno(1,2,3-cd)pyrene

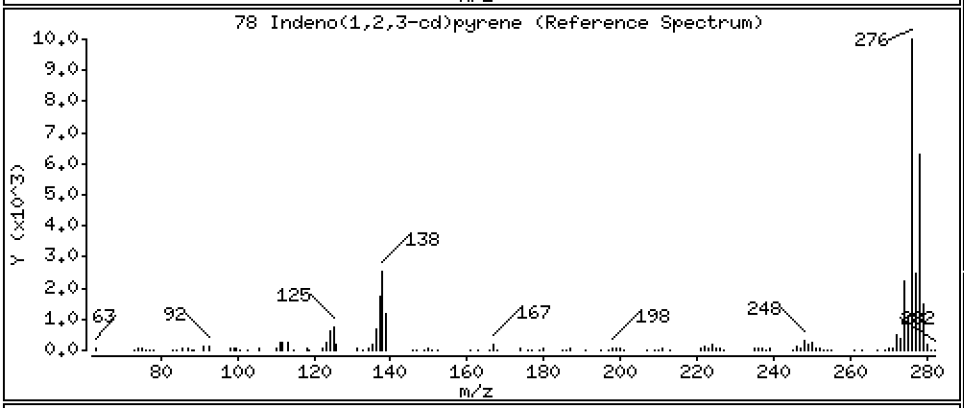
Concentration: 5.235 ug/mL

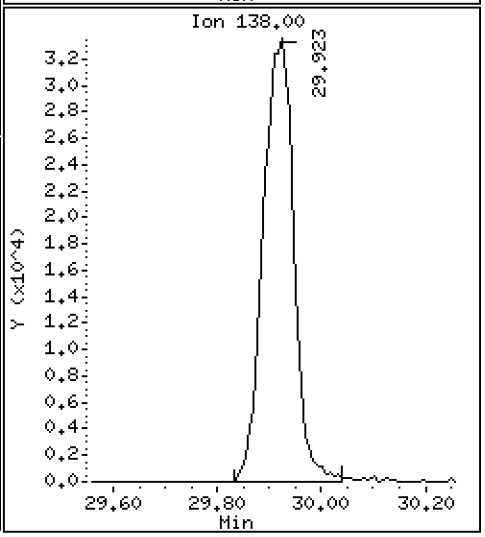


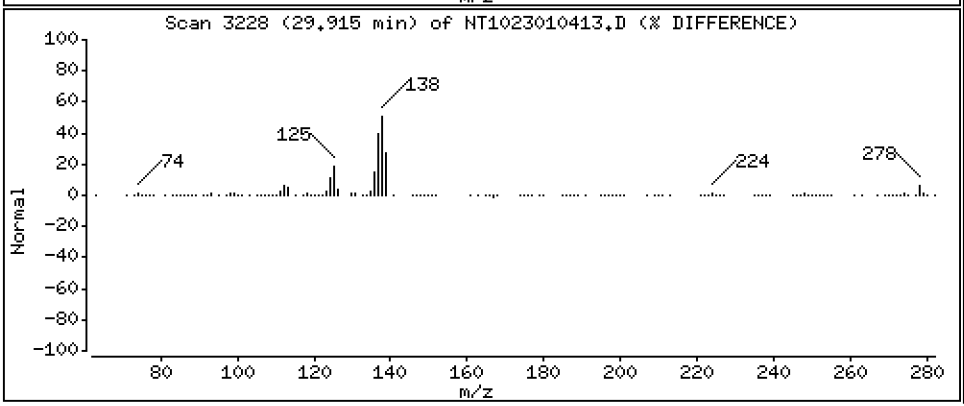












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

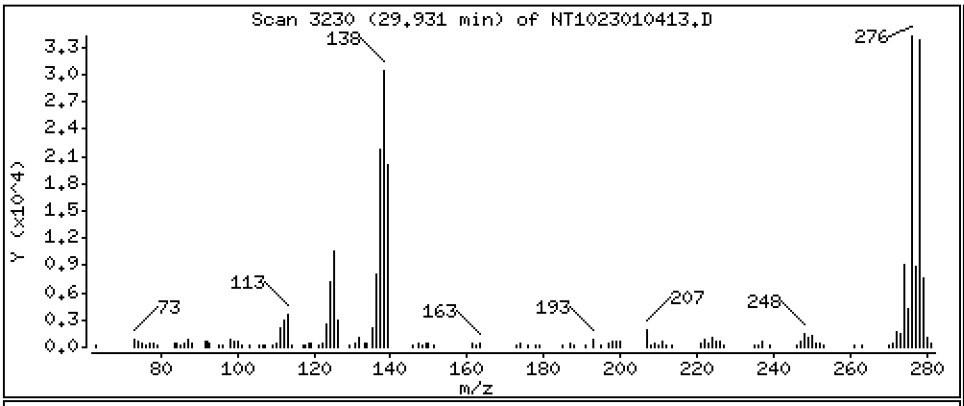
Operator: VTS

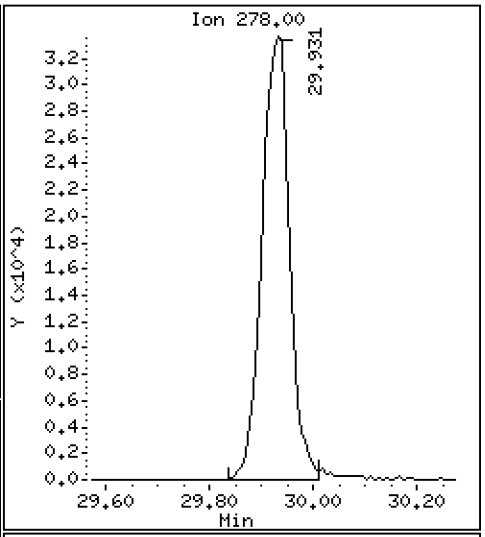
Column phase: ZB-5msi

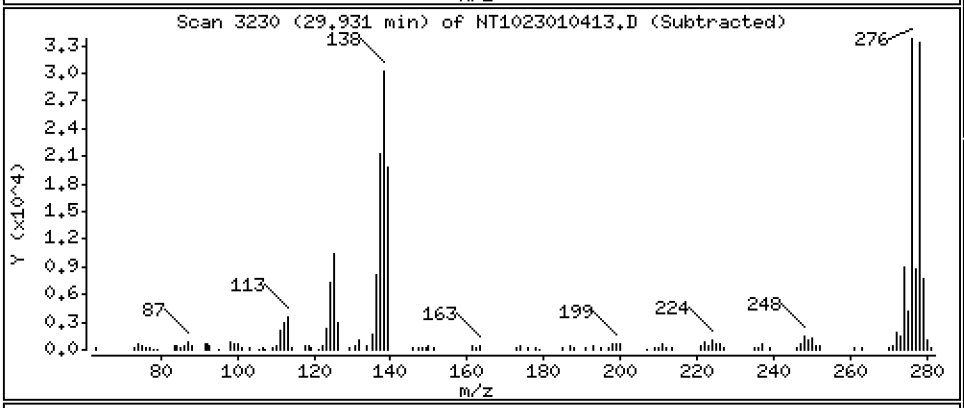
Column diameter: 0.25

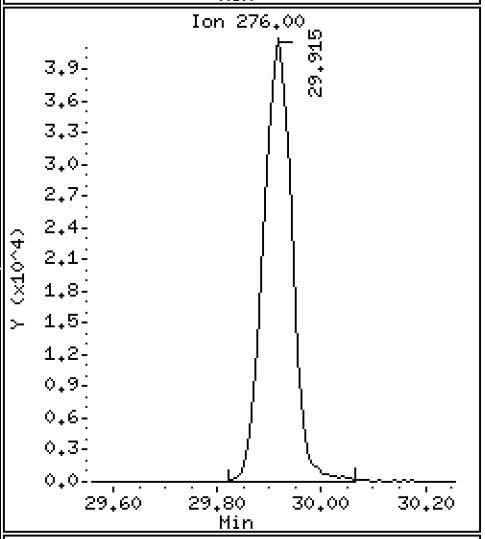
79 Dibenzo(a,h)anthracene

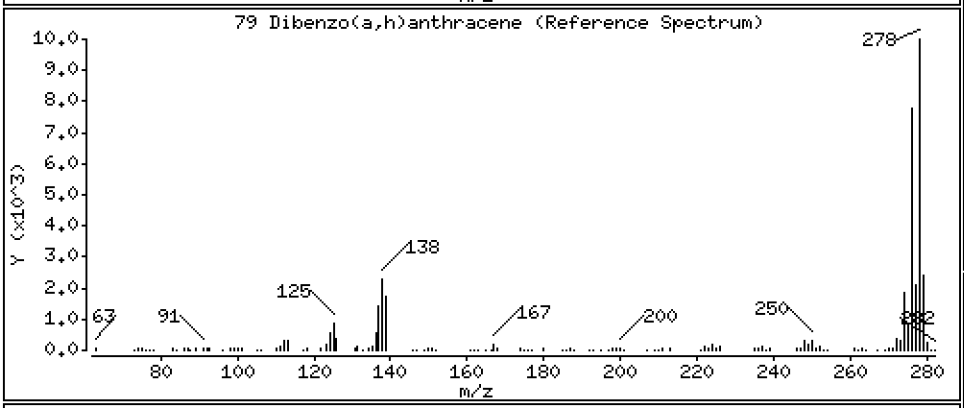
Concentration: 5.112 ug/mL

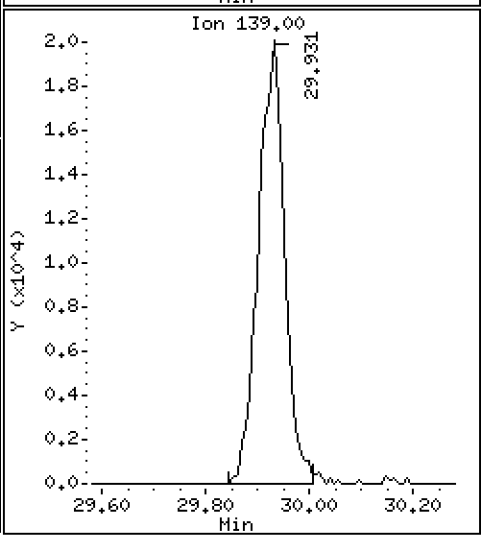


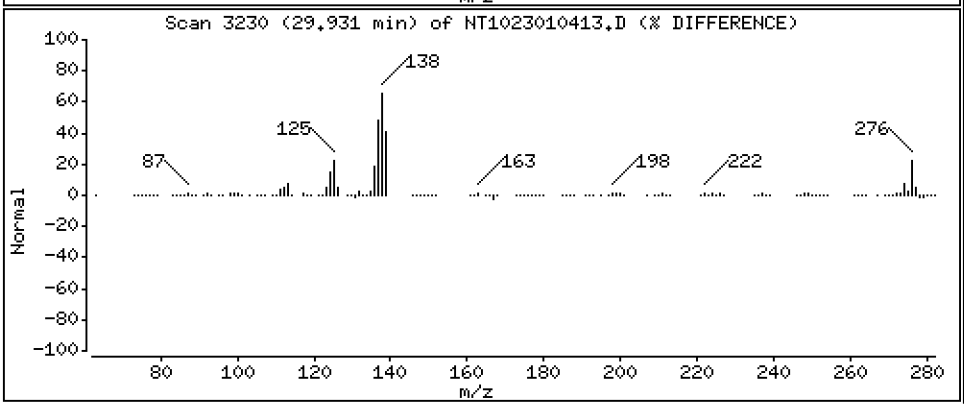












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

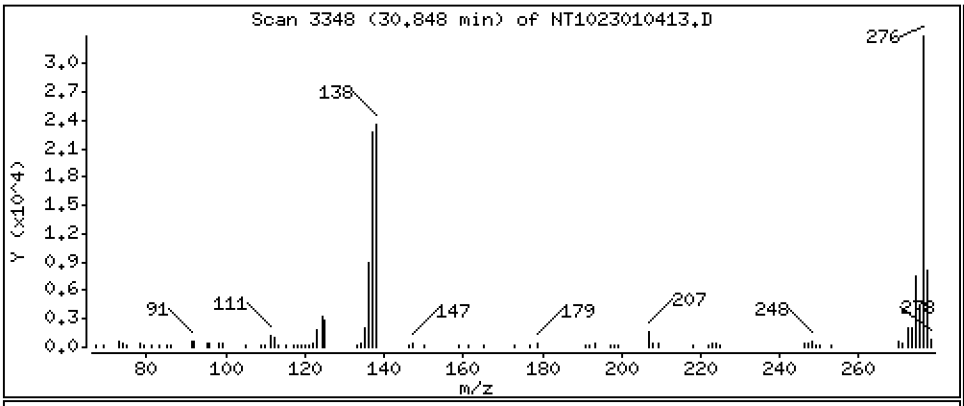
Operator: VTS

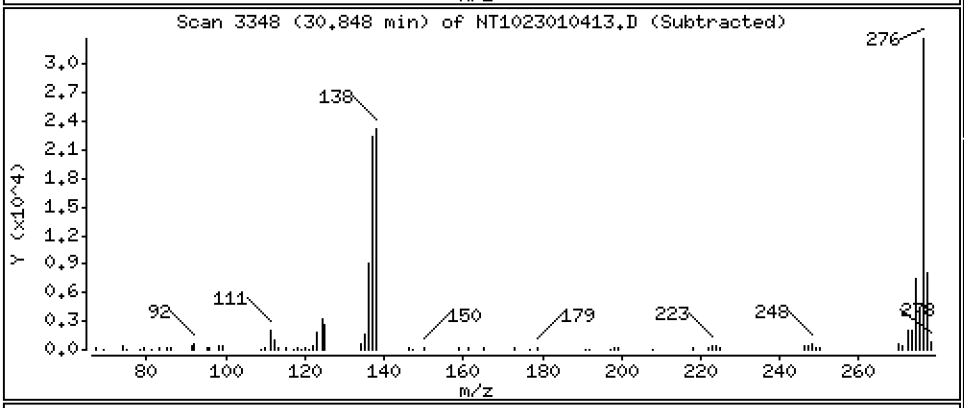
Column phase: ZB-5msi

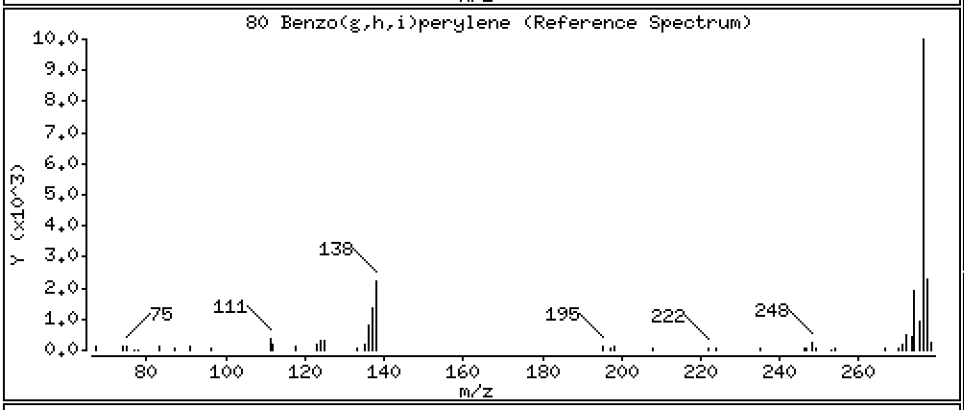
Column diameter: 0.25

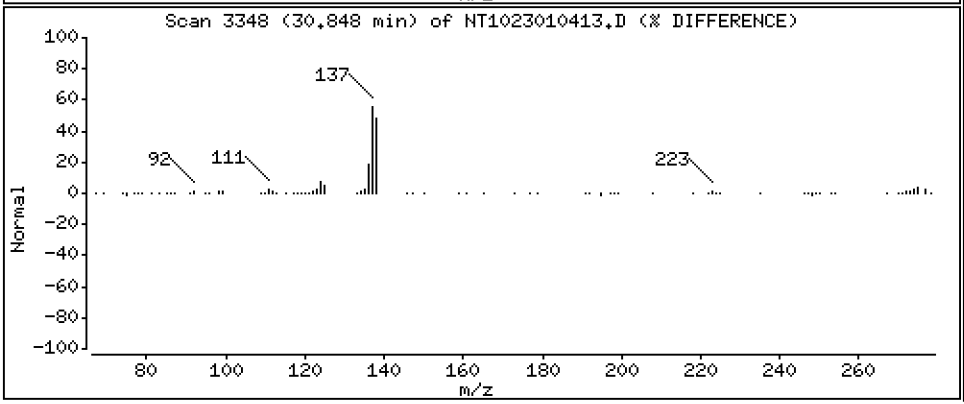
80 Benzo(g,h,i)perylene

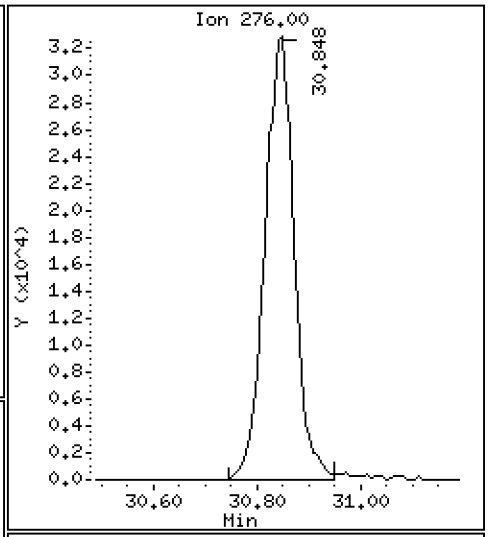
Concentration: 5.066 ug/mL

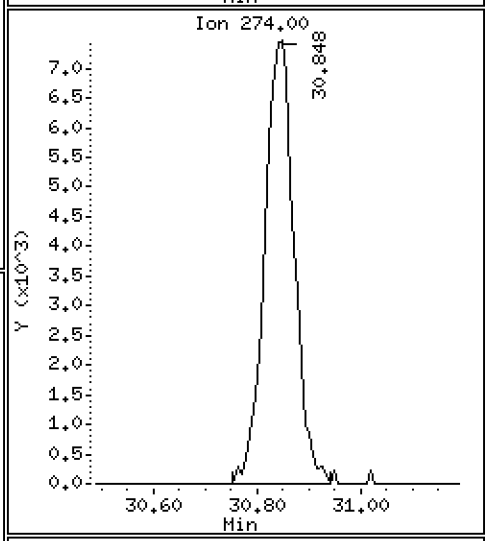


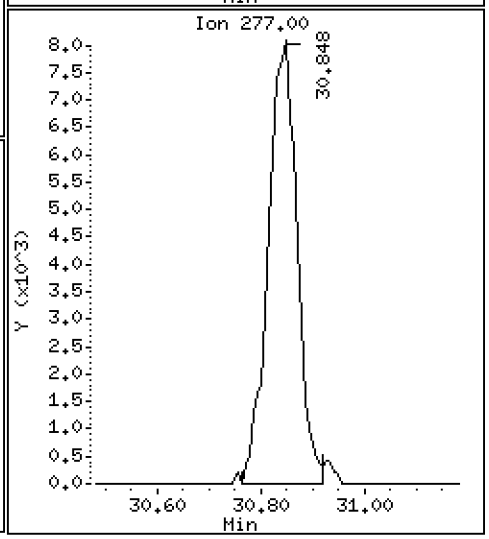












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

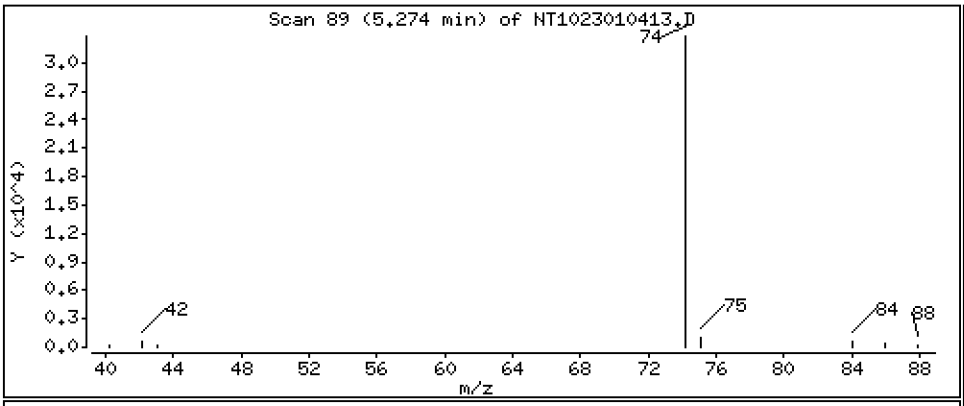
Operator: VTS

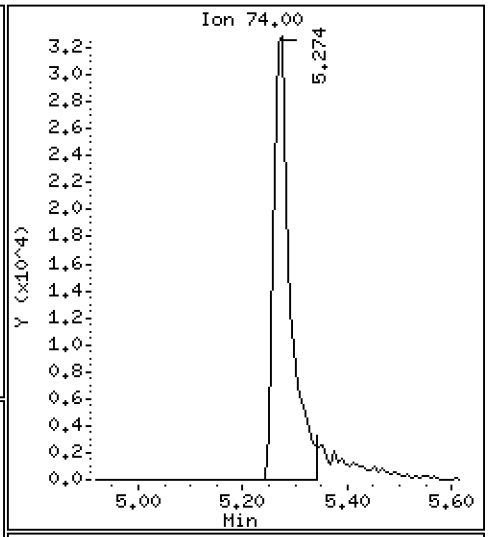
Column phase: ZB-5msi

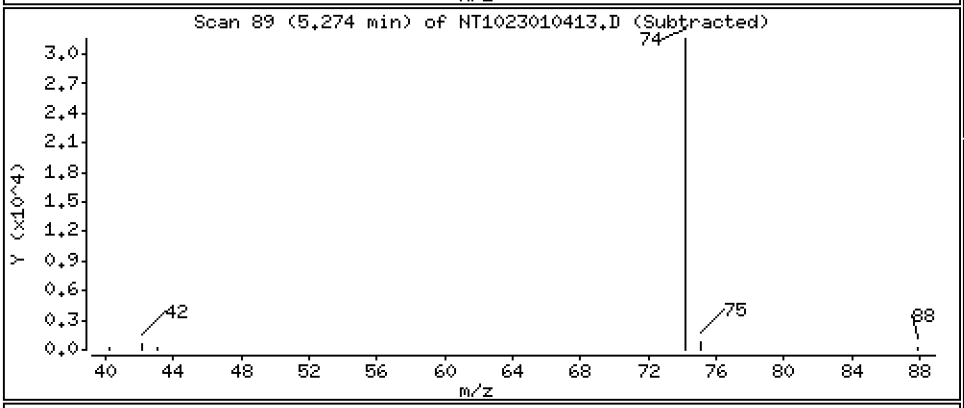
Column diameter: 0.25

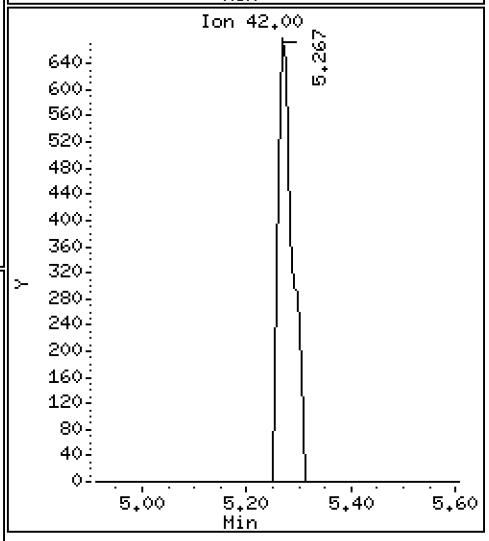
90 N-Nitrosodimethylamine

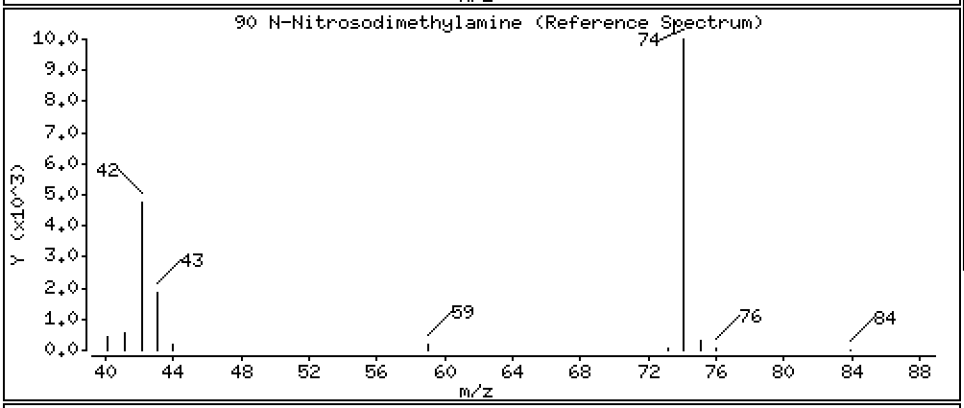
Concentration: 4.535 ug/mL

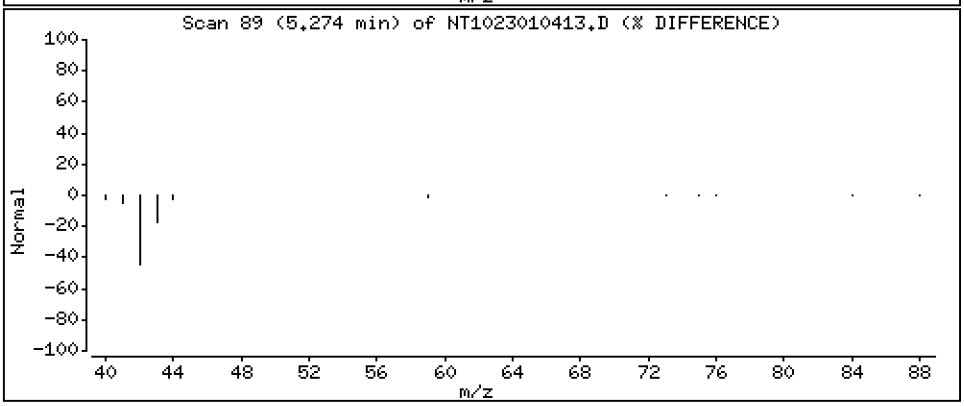












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

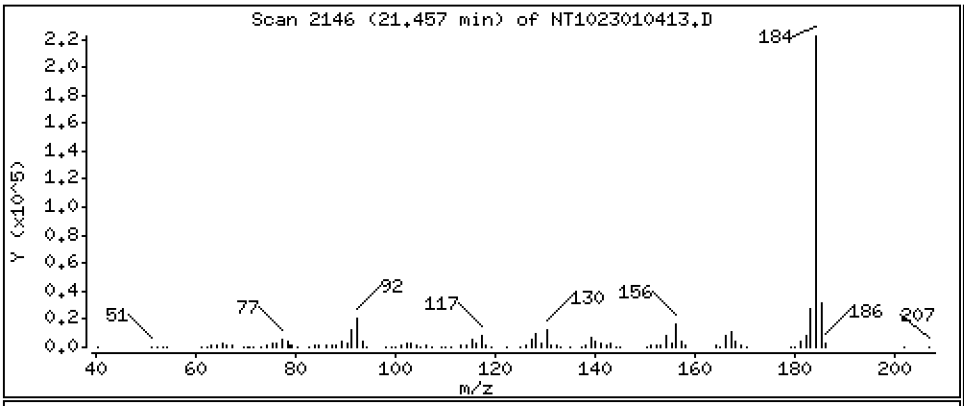
Operator: VTS

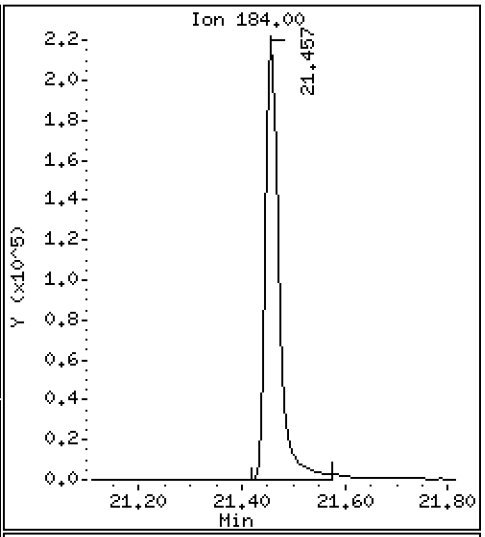
Column phase: ZB-5msi

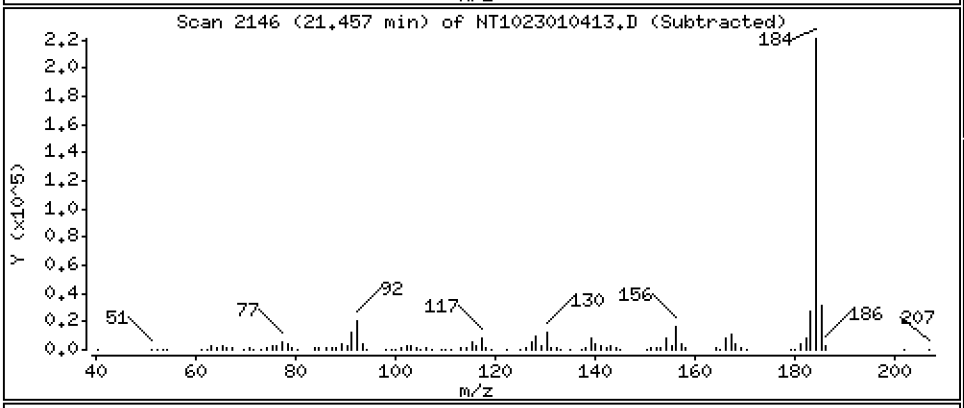
Column diameter: 0.25

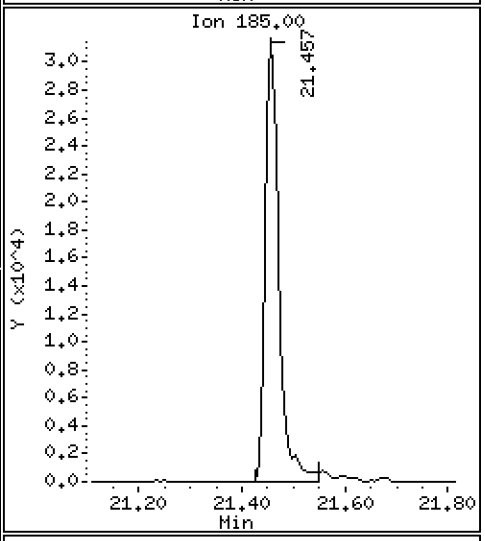
93 Benzidine

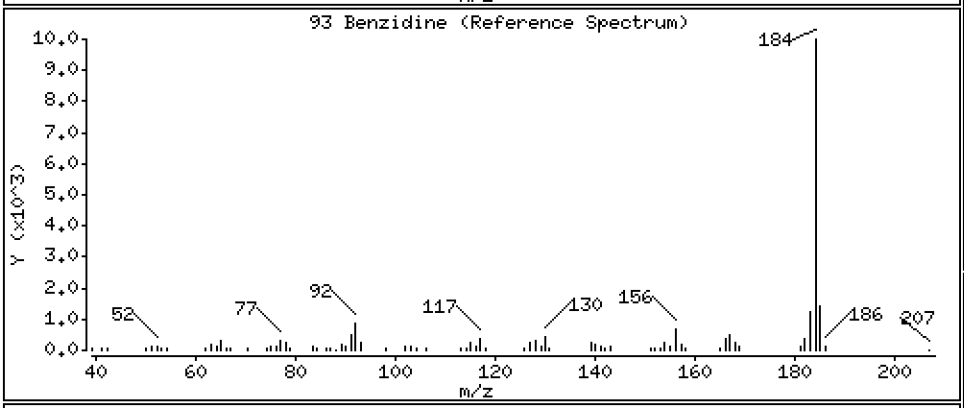
Concentration: 10.79 ug/mL

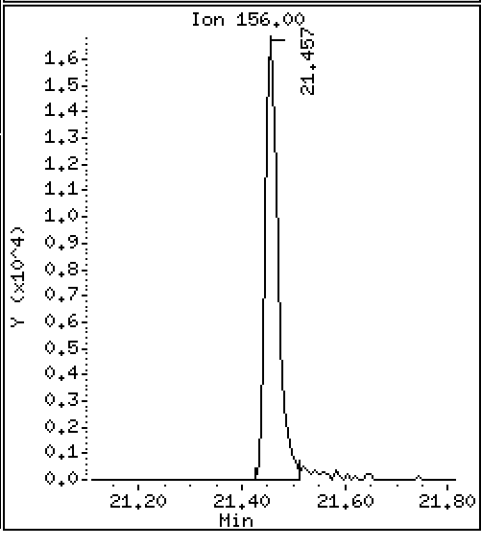


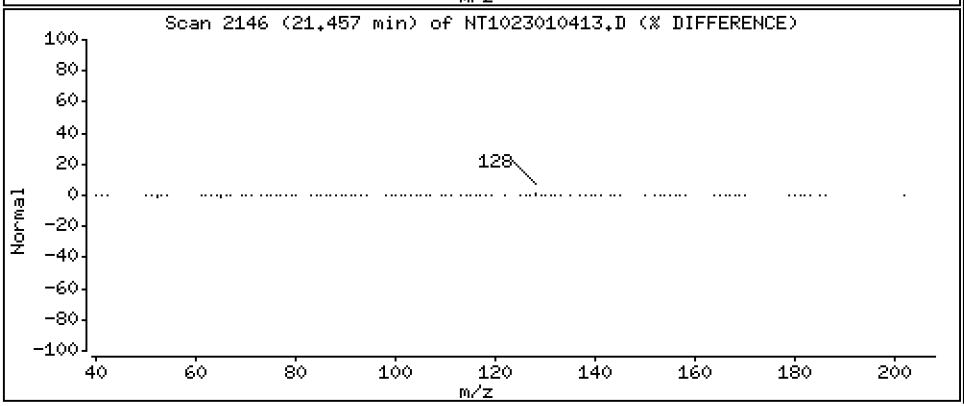












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

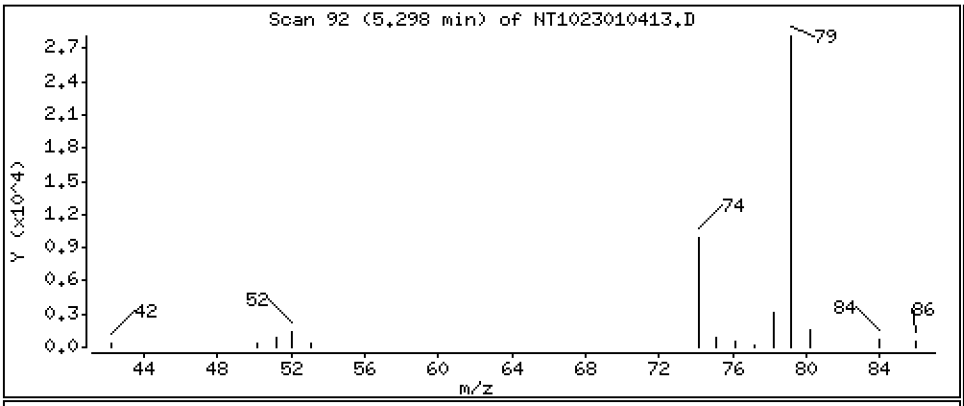
Operator: VTS

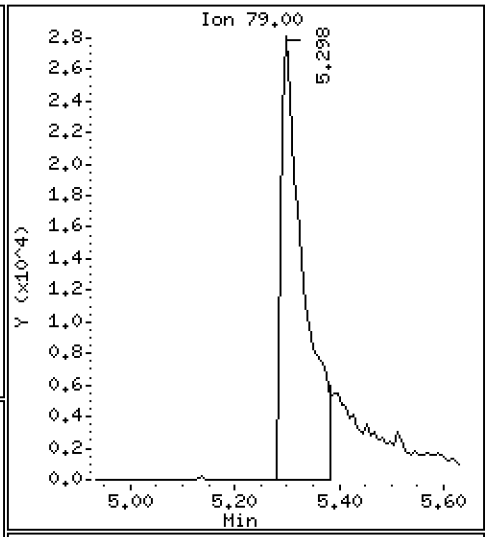
Column phase: ZB-5msi

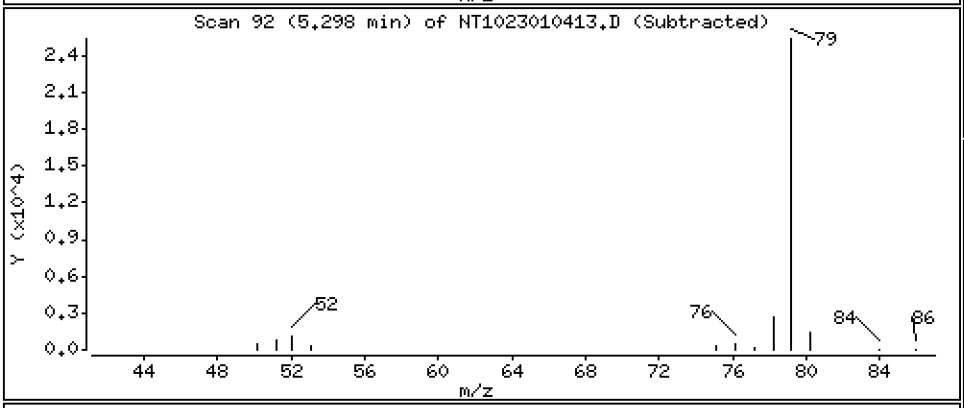
Column diameter: 0.25

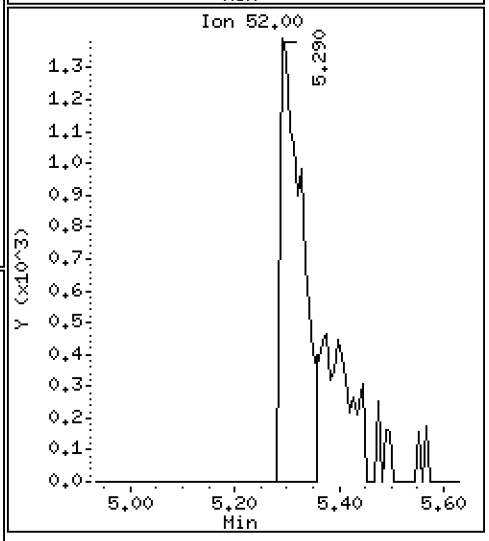
103 Pyridine

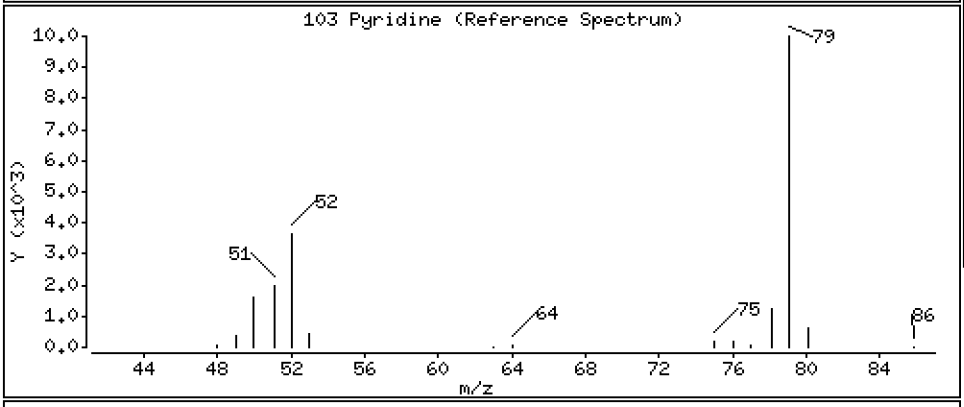
Concentration: 1.791 ug/mL

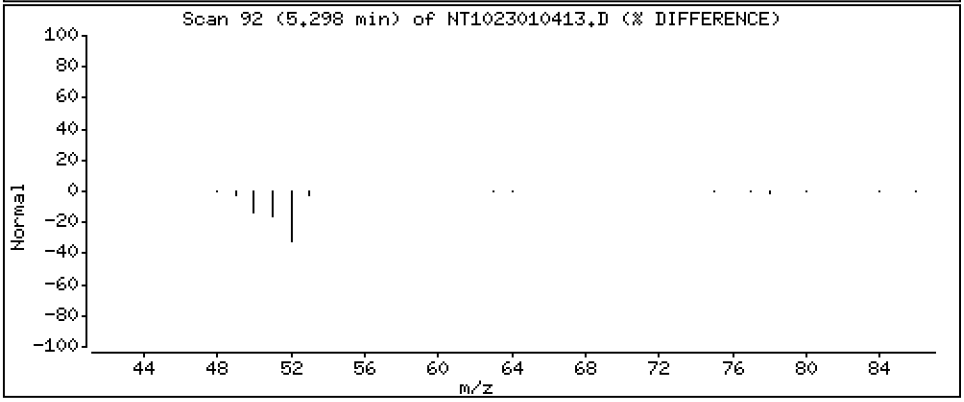












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

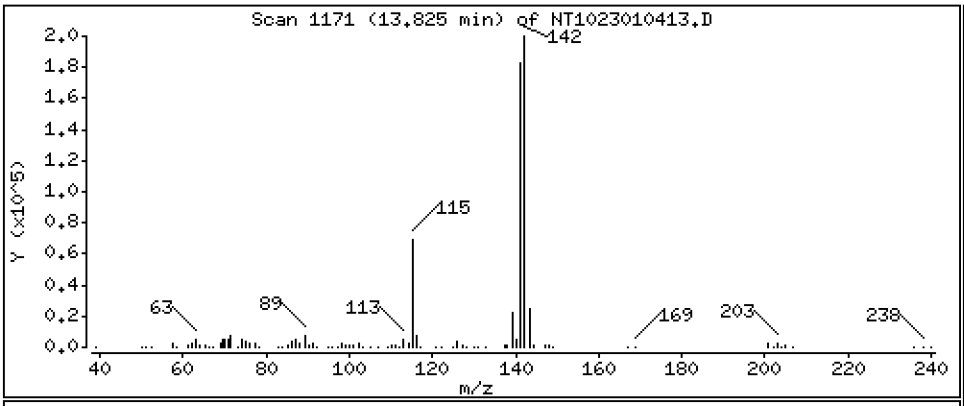
Operator: VTS

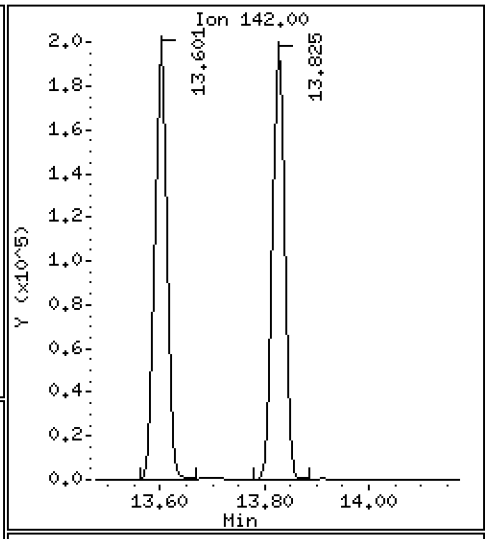
Column phase: ZB-5msi

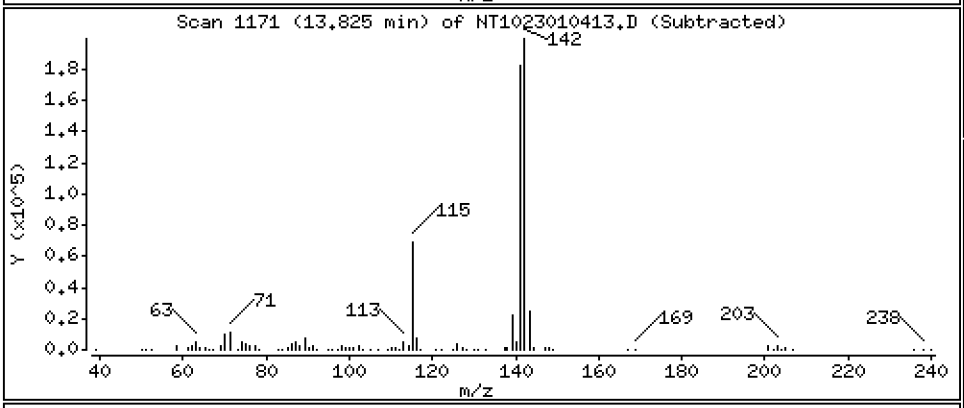
Column diameter: 0.25

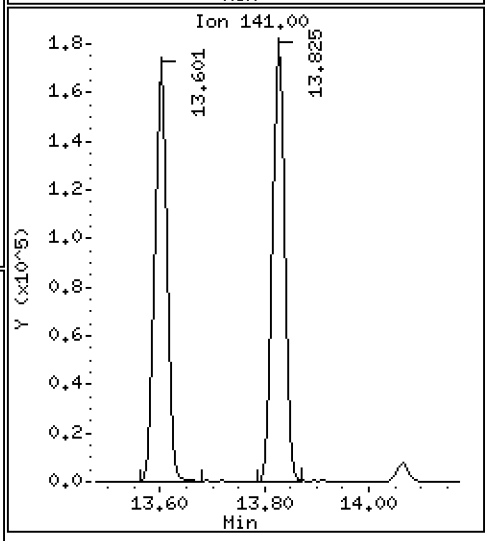
105 1-methylnaphthalene

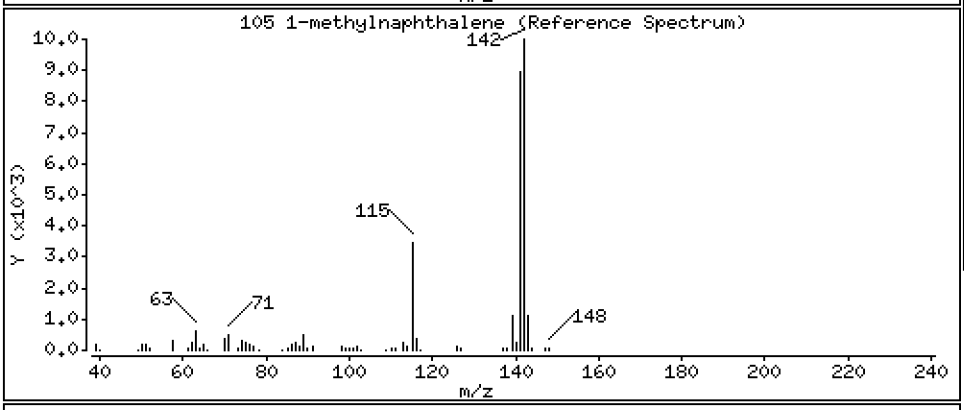
Concentration: 5.103 ug/mL

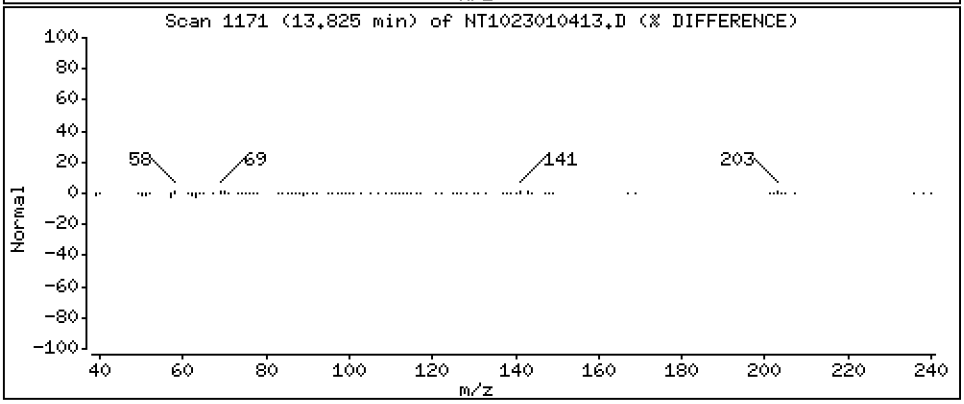












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

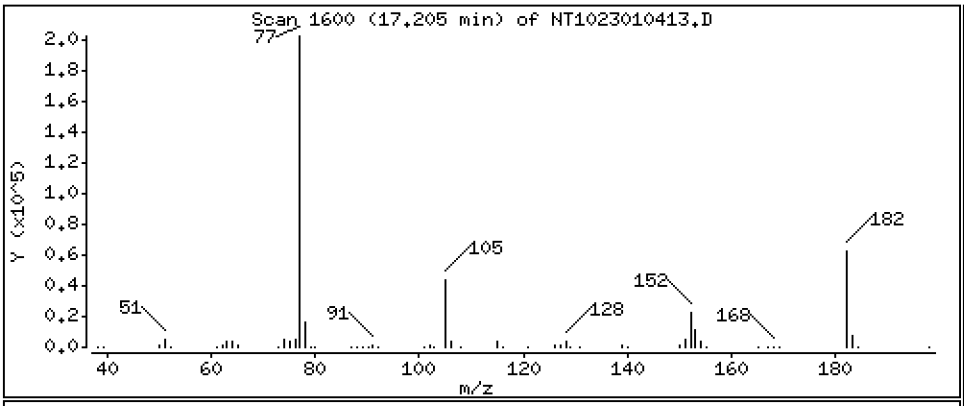
Operator: VTS

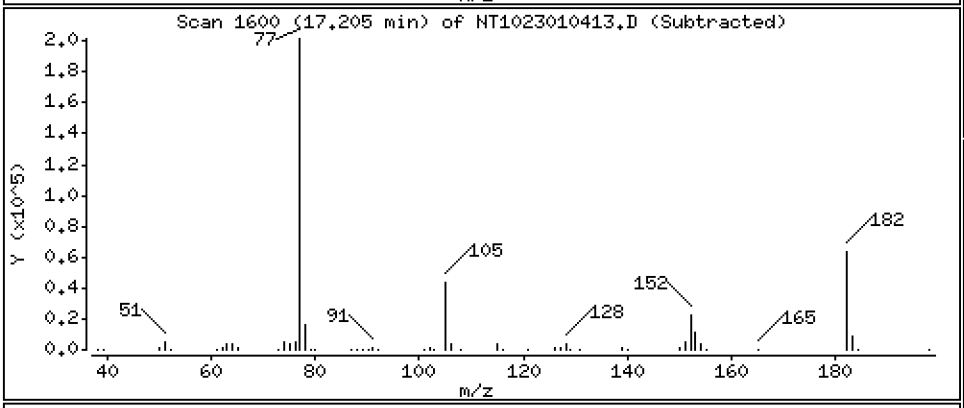
Column phase: ZB-5msi

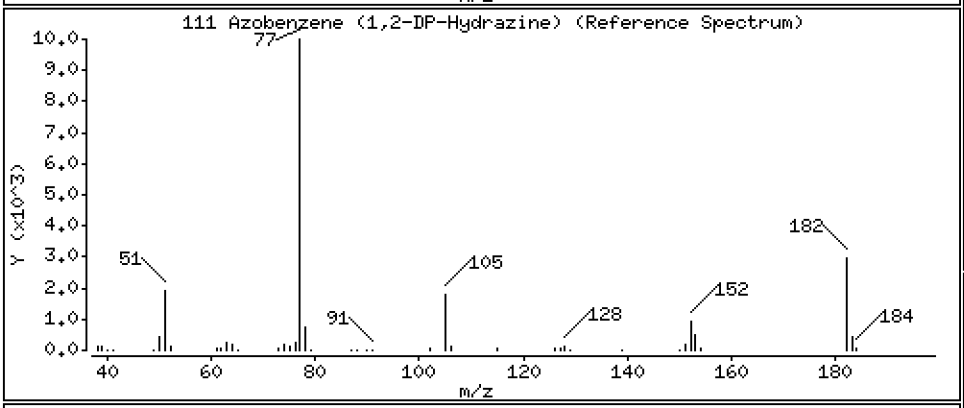
Column diameter: 0.25

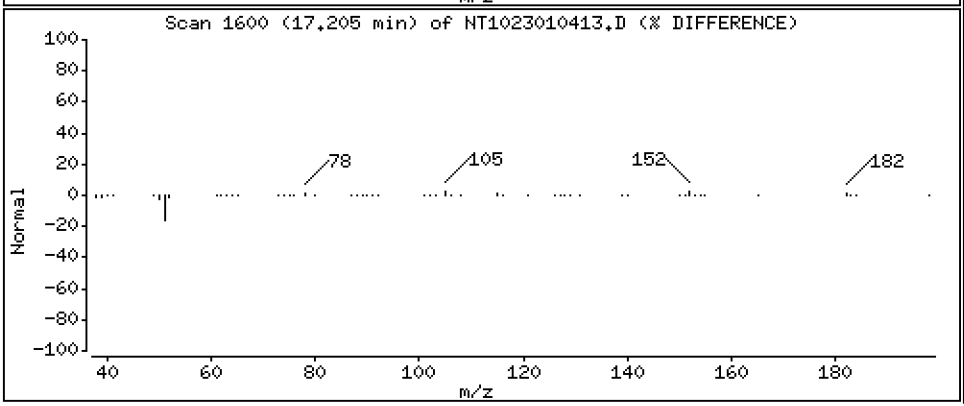
111 Azobenzene (1,2-DP-Hydrazine)

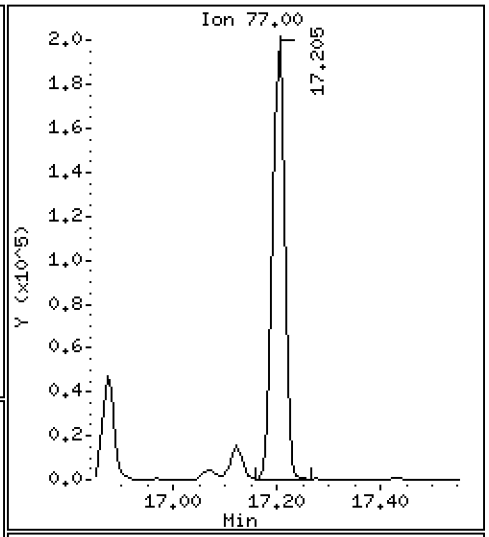
Concentration: 4.878 ug/mL

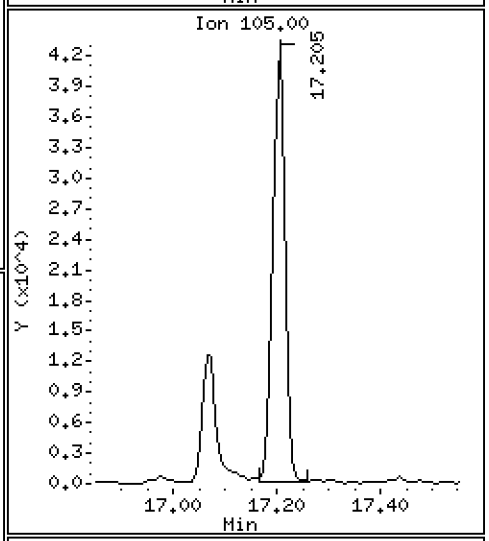


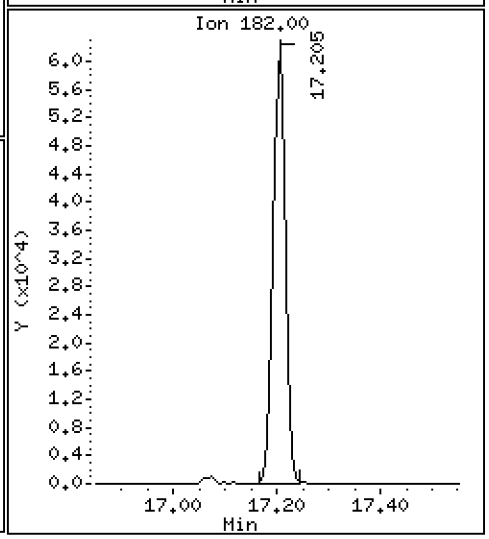












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

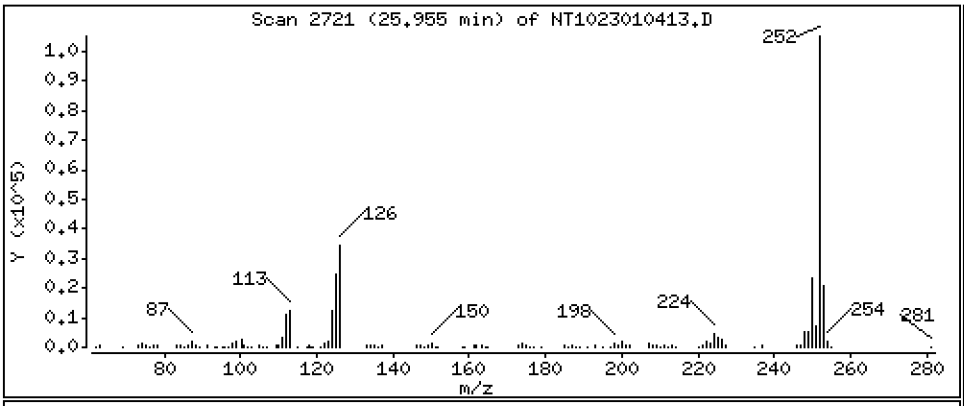
Operator: VTS

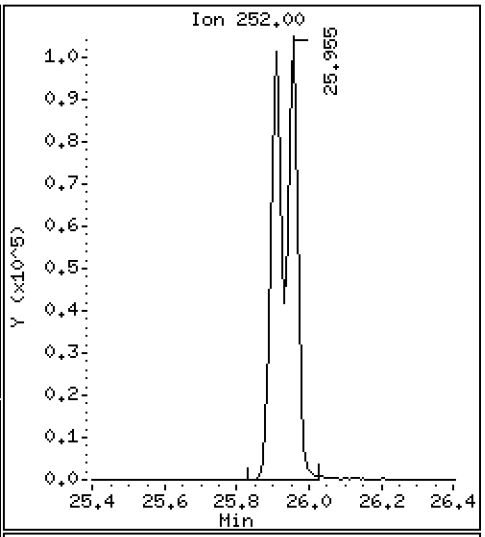
Column phase: ZB-5msi

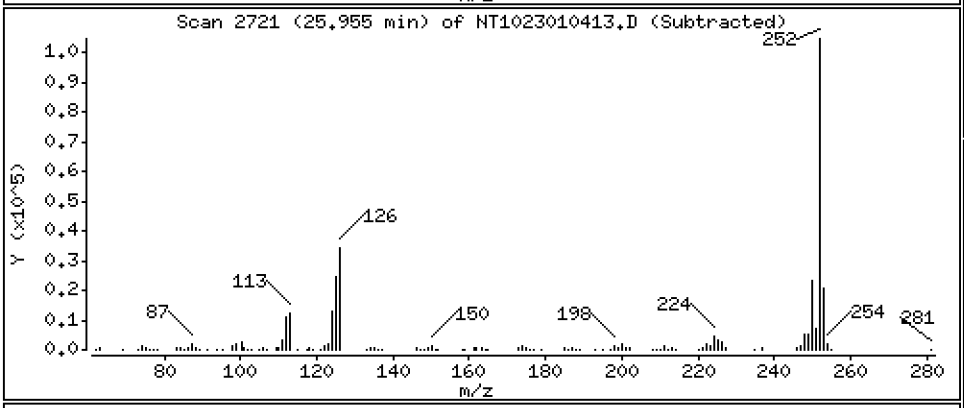
Column diameter: 0.25

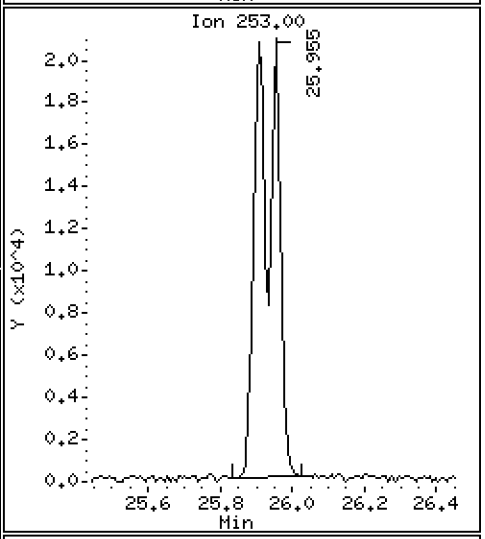
187 Total Benzofluoranthenes

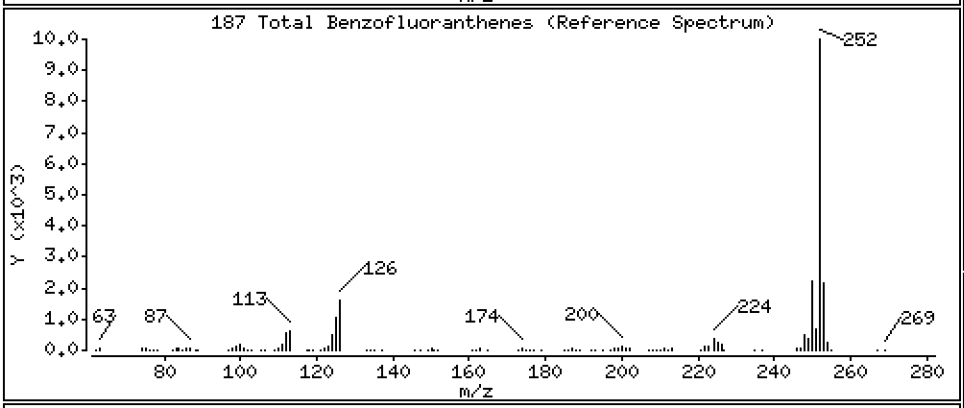
Concentration: 10.68 ug/mL

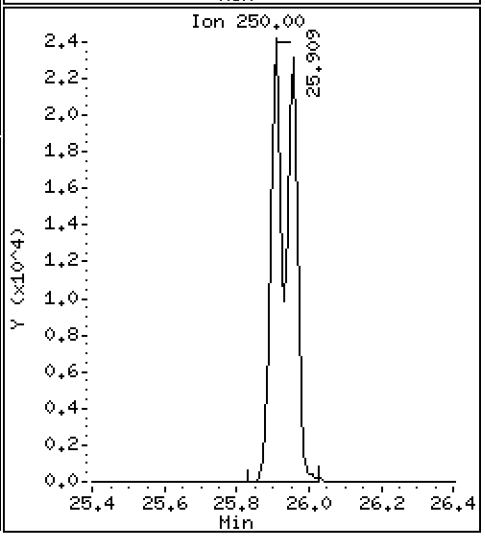


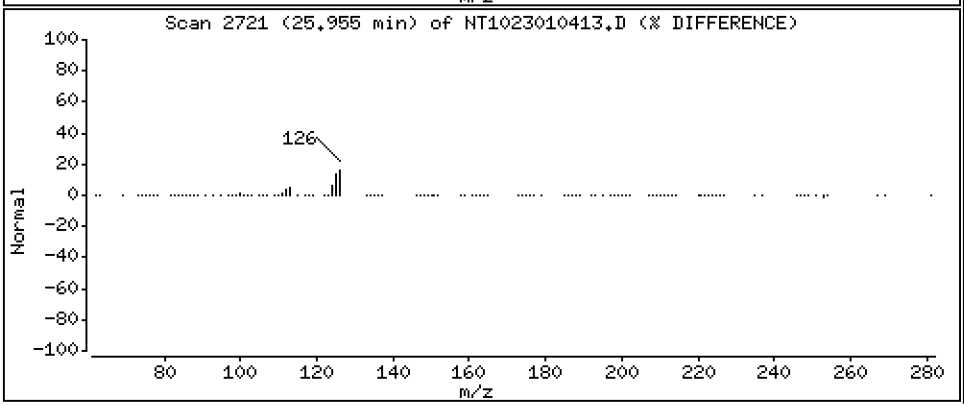












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

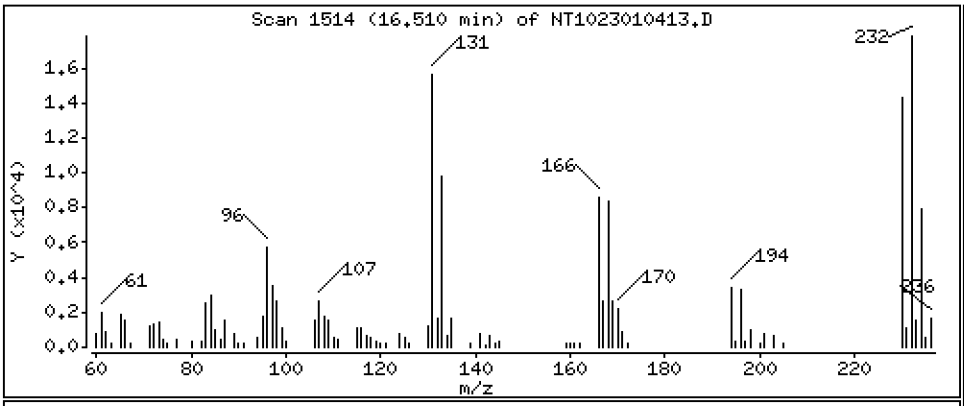
Operator: VTS

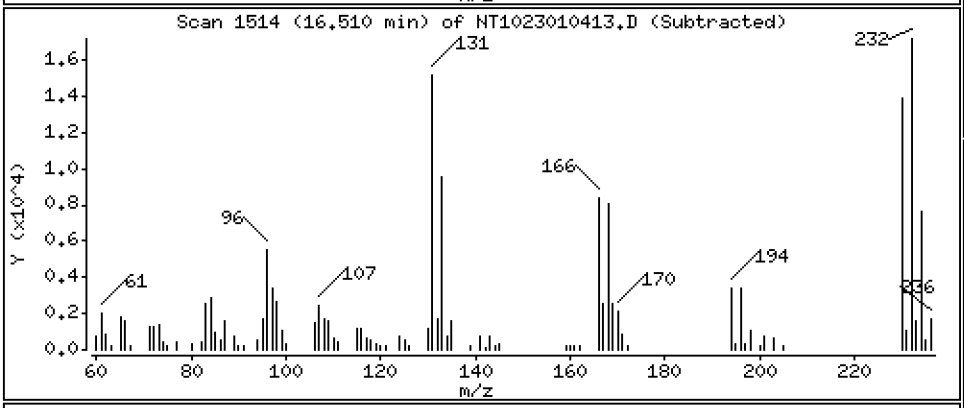
Column phase: ZB-5msi

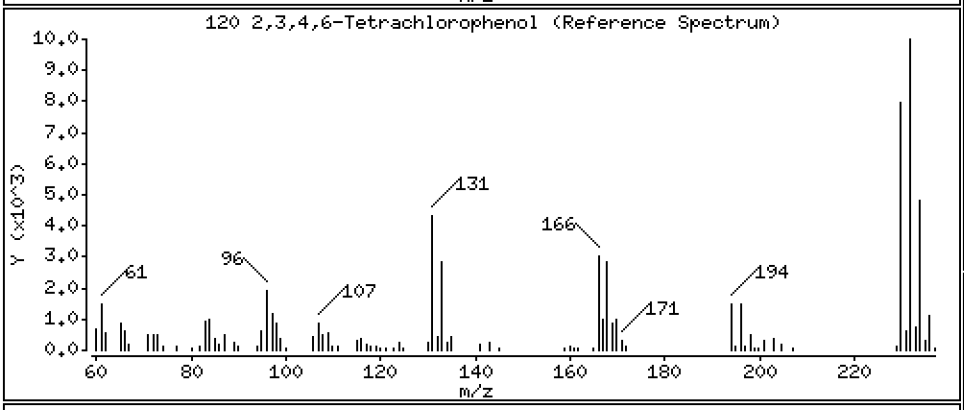
Column diameter: 0.25

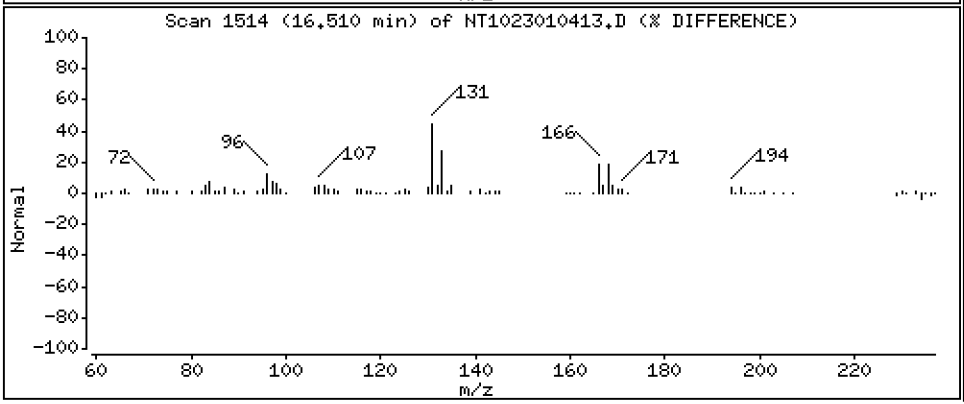
120 2,3,4,6-Tetrachlorophenol

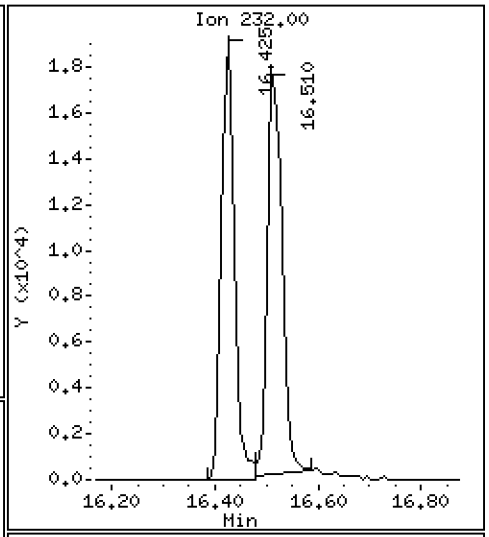
Concentration: 4.060 ug/mL

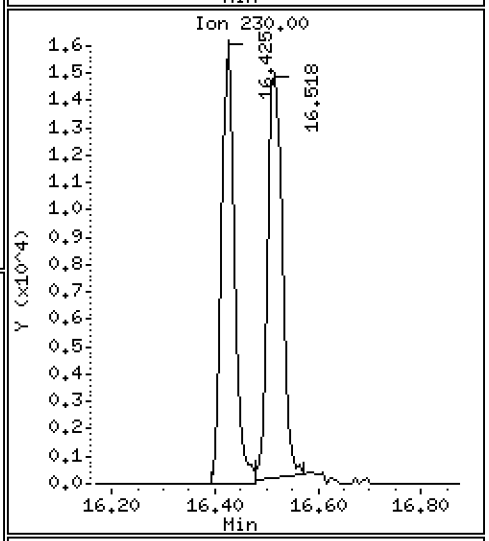


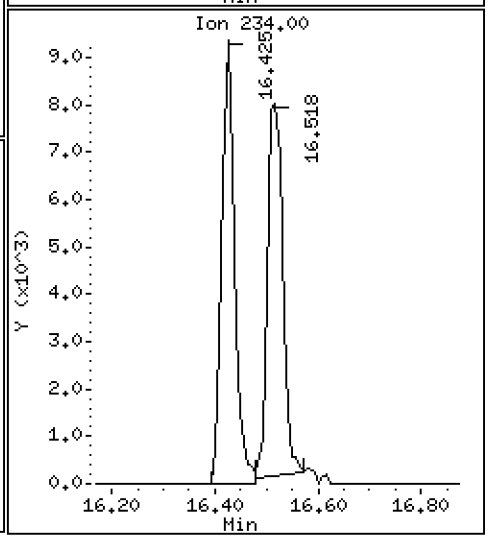












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Inj Date : 04-JAN-2023 16:58
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	224715	7.64185	7.642
$	2 Phenol-d5	99	8.989	8.989	(0.930)	267575	7.58597	7.586
	3 Phenol	94	9.012	9.012	(0.933)	158785	4.71880	4.719
$	5 2-Chlorophenol-d4	132	9.298	9.298	(0.962)	258199	8.46951	8.470
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.951)	138910	4.78072	4.781
	6 2-Chlorophenol	128	9.329	9.329	(0.966)	166488	5.15267	5.153
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	170615	5.03039	5.030
*	8 1,4-Dichlorobenzene-d4	152	9.661	9.670	(1.000)	88595	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.004)	144841	4.96598	4.966
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.039)	99739	5.25220	5.252
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.041)	146003	4.93320	4.933
	11 Benzyl alcohol	108	9.925	9.925	(1.027)	74707	4.69913	4.699
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.058)	48379	5.55091	5.551
	13 2-Methylphenol	108	10.135	10.135	(1.049)	94252	4.16263	4.163
	17 Hexachloroethane	117	10.655	10.663	(1.103)	64725	5.05461	5.055
	16 N-Nitroso-di-n-propylamine	70	10.476	10.477	(1.084)	61755	5.18101	5.181
	15 4-Methylphenol	108	10.414	10.391	(1.078)	72303	4.57347	4.573
$	18 Nitrobenzene-d5	82	10.756	10.764	(0.884)	118184	5.02398	5.024
	19 Nitrobenzene	77	10.795	10.795	(0.888)	105765	4.93221	4.932
	20 Isophorone	82	11.237	11.237	(0.924)	224608	6.64004	6.640
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	88380	4.47939	4.479
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	102048	3.77028	3.770
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	148405	6.33196	6.332
	24 Benzoic acid	105	11.450	11.450	(0.942)	3528	0.31664	0.3166
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	106733	5.09782	5.098
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	101894	4.51999	4.520
*	27 Naphthalene-d8	136	12.161	12.162	(1.000)	350423	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	397291	5.15594	5.156
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	127702	4.19747	4.197
	30 Hexachlorobutadiene	225	12.555	12.556	(1.032)	40912	4.88362	4.884
	31 4-Chloro-3-methylphenol	107	13.260	13.260	(1.090)	100560	4.51499	4.515
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	314685	5.16348	5.163
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	44657	5.17794	5.178

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	66043	4.94833	4.948
	35	2,4,5-Trichlorophenol	196	14.289	14.289	(0.905)	66737	4.60726	4.607
$	36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	321372	5.49371	5.494
	37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	281103	5.37875	5.379
	38	2-Nitroaniline	65	14.838	14.846	(0.940)	38621	5.39121	5.391
	39	Dimethylphthalate	163	15.256	15.257	(0.966)	255305	5.36151	5.362
	40	Acenaphthylene	152	15.481	15.473	(0.980)	396090	5.27531	5.275
	41	2,6-Dinitrotoluene	165	15.403	15.404	(0.975)	58941	5.44953	5.450
*	42	Acenaphthene-d10	164	15.790	15.791	(1.000)	157902	4.00000	
	43	3-Nitroaniline	138	15.690	15.690	(0.994)	46796	6.03670	6.037
	44	Acenaphthene	153	15.860	15.860	(1.004)	224711	5.39302	5.393
	45	2,4-Dinitrophenol	184	15.914	15.914	(1.008)	8291	1.16138	1.161
	46	Dibenzofuran	168	16.185	16.185	(1.025)	333559	5.26832	5.268
	47	4-Nitrophenol	109	16.007	16.007	(1.014)	22311	3.88150	3.882
	48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	77451	5.33670	5.337
	50	Diethylphthalate	149	16.718	16.718	(1.059)	281464	5.60445	5.604
	49	Fluorene	166	16.904	16.896	(1.070)	476590	5.12741	5.127
	51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	145983	4.88992	4.890
	52	4-Nitroaniline	138	16.973	16.973	(1.075)	112376	5.36280	5.363
	53	4,6-Dinitro-2-methylphenol	198	17.073	17.066	(0.906)	46974	3.80822	3.808
	54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	252742	4.69177	4.692
$	55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	19945	6.20177	6.202
	56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.950)	68834	4.85369	4.854
	57	Hexachlorobenzene	284	18.215	18.215	(0.967)	49735	4.10084	4.101
	58	Pentachlorophenol	266	18.594	18.579	(0.987)	94	0.04497	0.04497
*	59	Phenanthrene-d10	188	18.842	18.842	(1.000)	291036	4.00000	
	60	Phenanthrene	178	18.888	18.888	(1.002)	354841	5.02544	5.025
	61	Anthracene	178	18.989	18.981	(1.008)	313064	4.54195	4.542
	62	Carbazole	167	19.298	19.299	(1.024)	358216	4.82289	4.823
	63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	530086	5.12976	5.130
	64	Fluoranthene	202	21.248	21.240	(0.891)	410175	5.42517	5.425
	65	Pyrene	202	21.673	21.666	(0.909)	413310	5.43802	5.438
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	212848	4.87635	4.876
	67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	215268	5.29295	5.293
	68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	278522	5.36735	5.367
*	69	Chrysene-d12	240	23.849	23.850	(1.000)	180135	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.756	23.757	(0.996)	197513	10.5462	10.55
	71	Chrysene	228	23.896	23.896	(1.002)	207879	4.66213	4.662
	72	bis(2-Ethylhexyl)phthalate	149	23.849	23.842	(0.958)	355145	5.28072	5.281
*	134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	437929	4.00000	
	73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	511569	5.05159	5.052
	74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	225309	5.48784	5.488
	75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	207321	5.18288	5.183
	76	Benzo(a)pyrene	252	26.667	26.660	(0.995)	210048	5.36509	5.365
*	77	Perylene-d12	264	26.799	26.791	(1.000)	113976	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	161089	5.23456	5.235
	79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	123610	5.11179	5.112
	80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	128628	5.06607	5.066
	90	N-Nitrosodimethylamine	74	5.274	5.266	(0.546)	72009	4.53535	4.535
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.457	21.457	(0.900)	383147	10.7938	10.79
	103	Pyridine	79	5.297	5.282	(0.548)	84629	1.79057	1.791
	105	1-methylnaphthalene	142	13.825	13.825	(1.137)	303889	5.10312	5.103
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.204	17.205	(1.090)	303783	4.87819	4.878

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	415058	10.6768	10.68
120 2,3,4,6-Tetrachlorophenol	232	16.509	16.517	(1.046)	32903	4.05990	4.060

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	80982	40491	161964	88595	9.40
27 Naphthalene-d8	314194	157097	628388	350423	11.53
42 Acenaphthene-d10	149187	74594	298374	157902	5.84
59 Phenanthrene-d10	263157	131579	526314	291036	10.59
69 Chrysene-d12	165015	82508	330030	180135	9.16
134 Di-n-octylphthala	399023	199512	798046	437929	9.75
77 Perylene-d12	106456	53228	212912	113976	7.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.66	-0.08
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010413.D

Lab ID: SLA0012-SCV1
nt10.i, ABN.m, 04-JAN-2023 16:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00013
Laboratory ID: SLA0012-SCV1
Sequence: SLA0012
Standard ID: K010066

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Butylbenzylphthalate	5.0000	5.3	5.9	20.00
p-Terphenyl-d14	5.0000	4.88	-2.5	20.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Page 1

Date : 04-JAN-2023 16:58

Client ID:

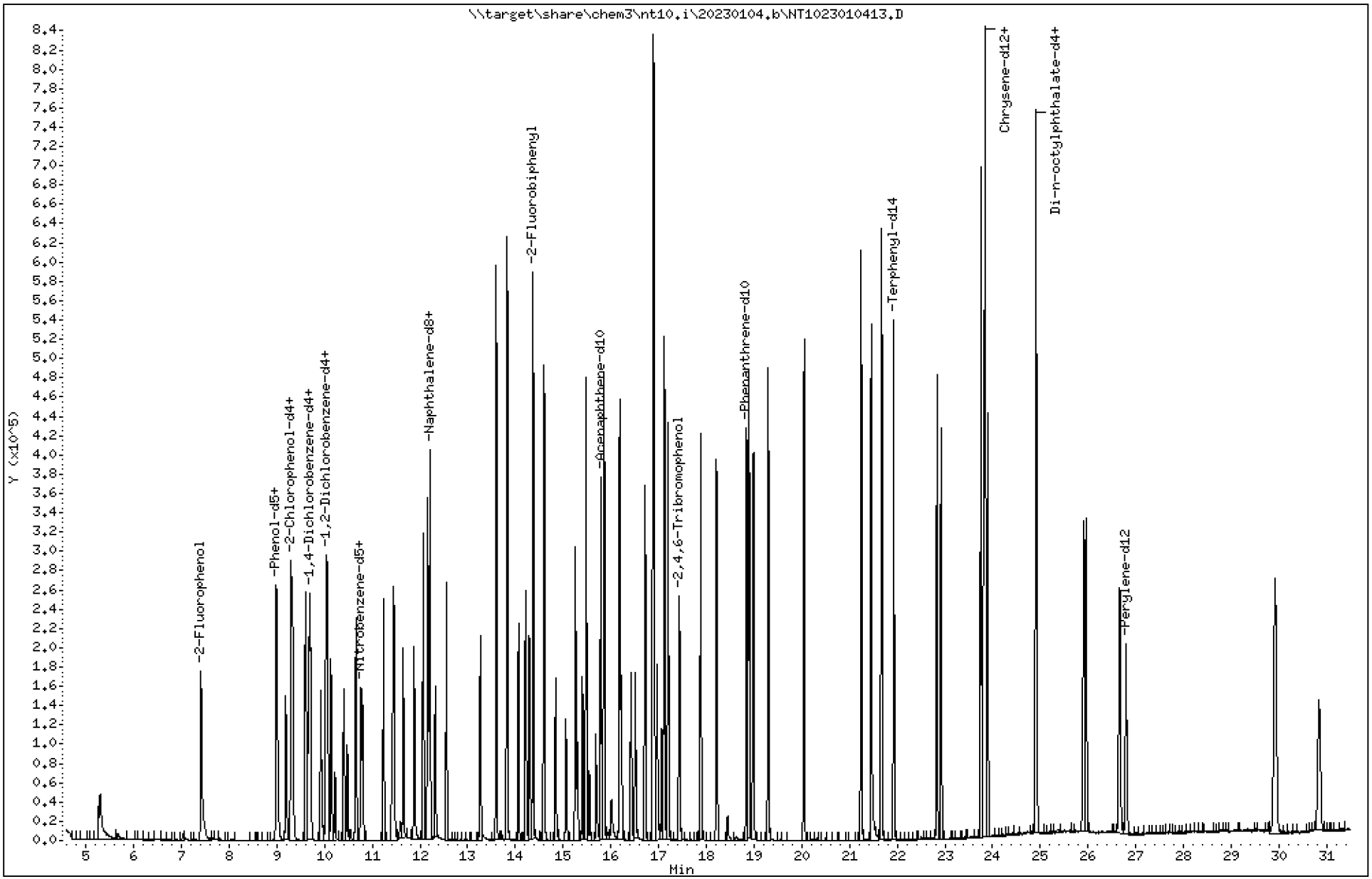
Instrument: nt10.i

Sample Info: SLA0012-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1909 of 5449

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

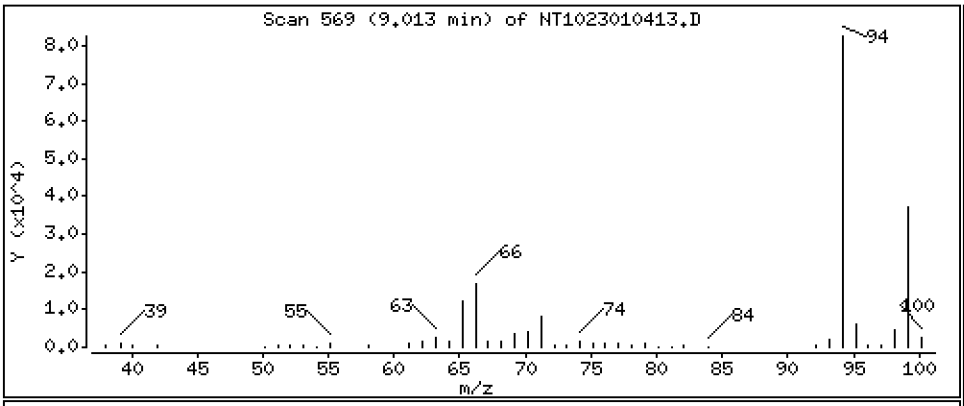
Operator: VTS

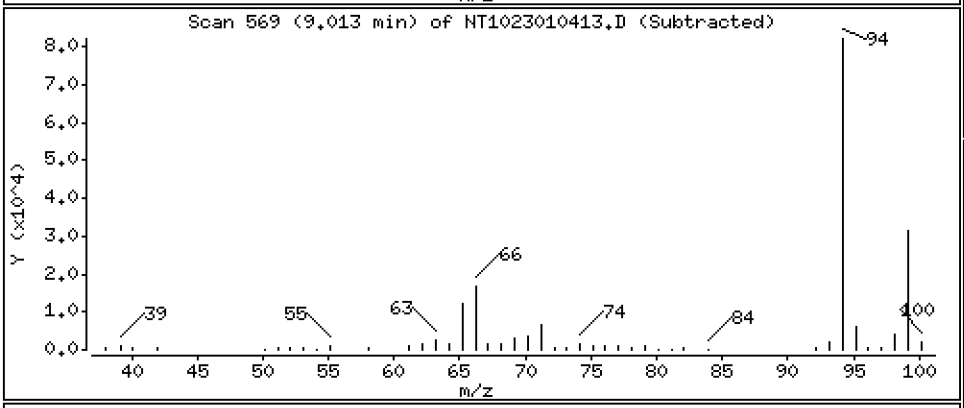
Column phase: ZB-5msi

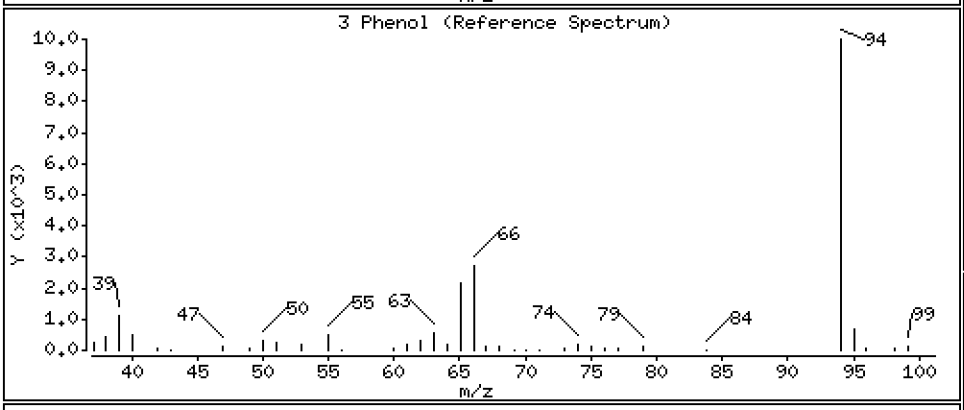
Column diameter: 0.25

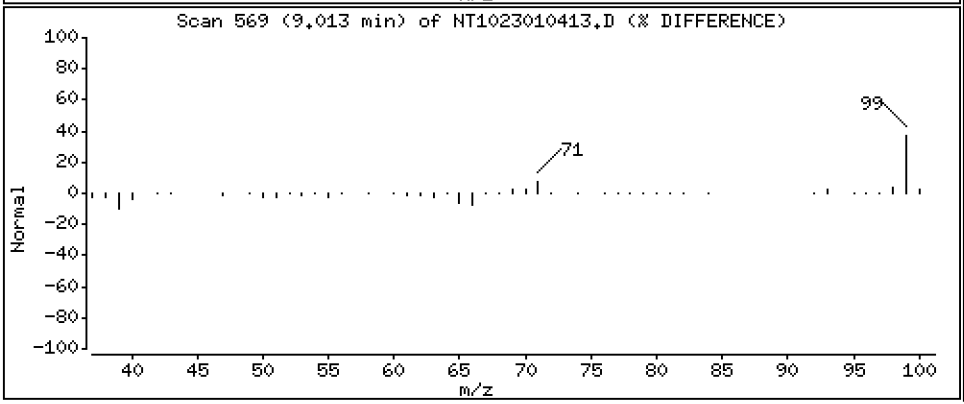
3 Phenol

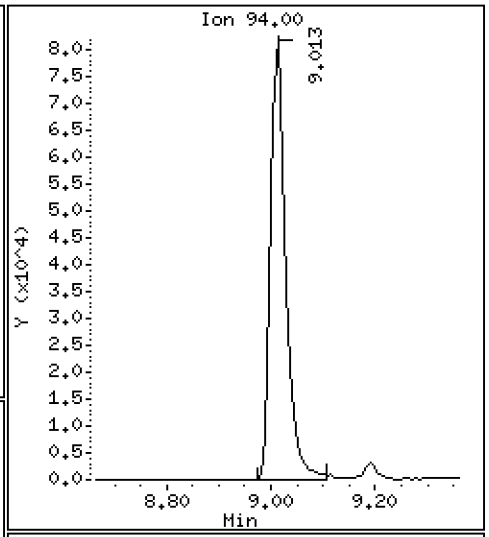
Concentration: 4.719 ug/mL

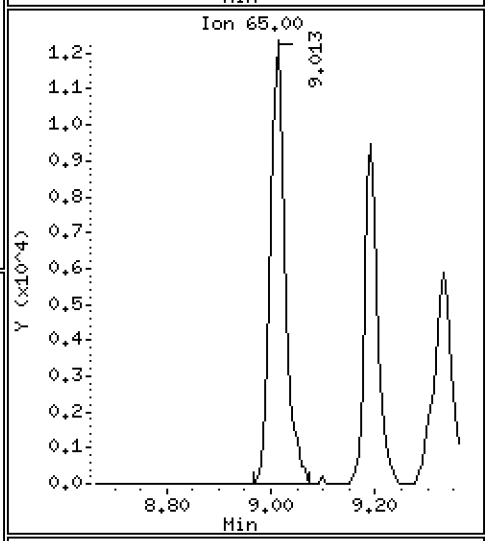


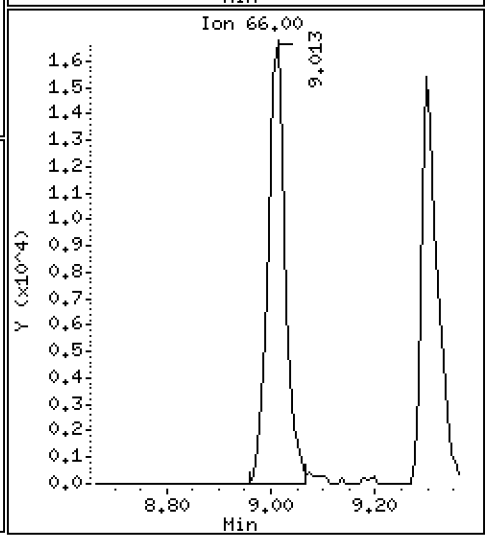












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

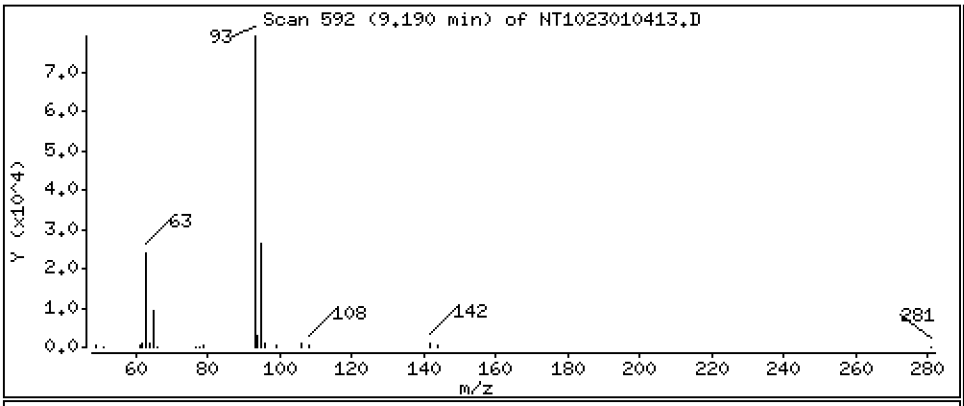
Operator: VTS

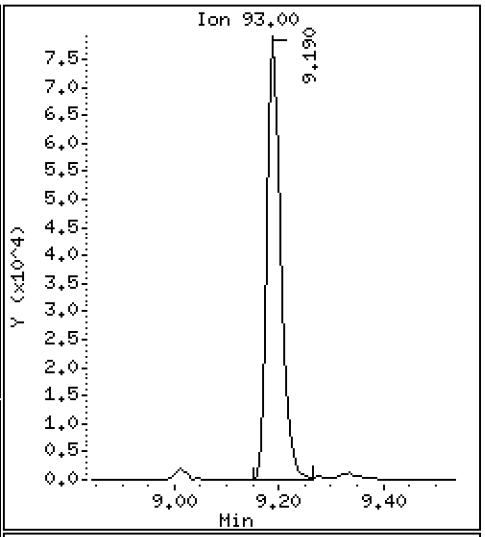
Column phase: ZB-5msi

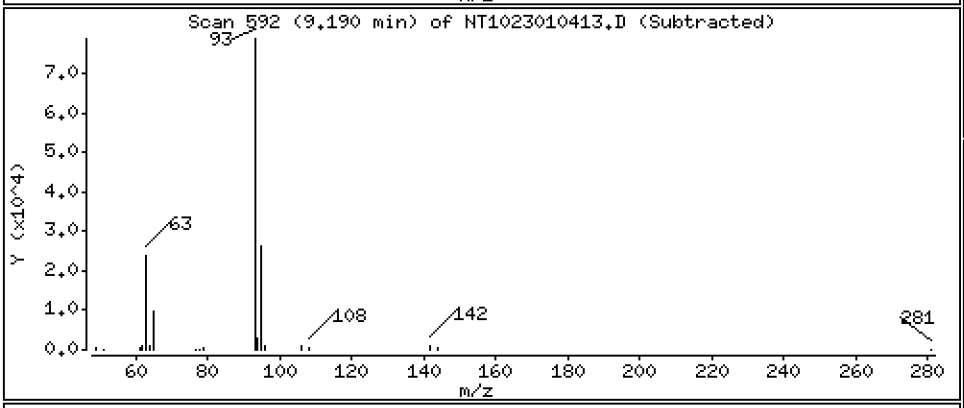
Column diameter: 0.25

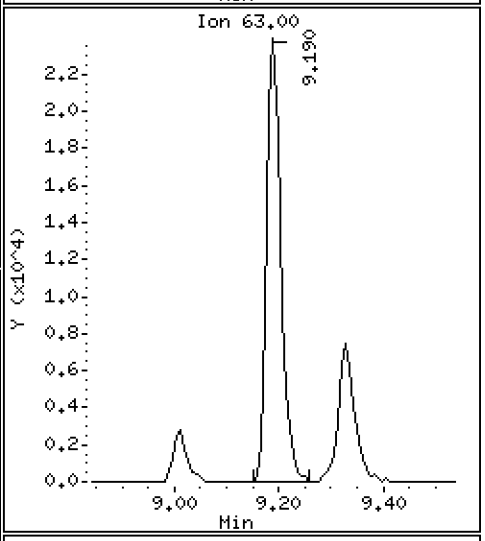
4 Bis(2-Chloroethyl)ether

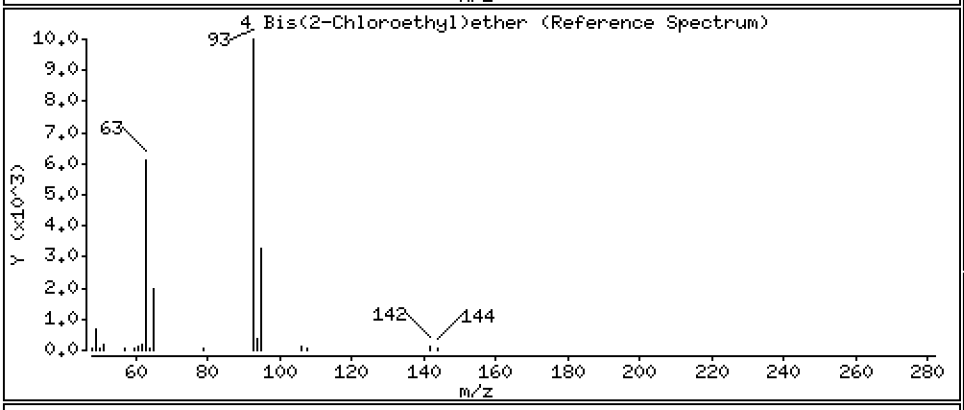
Concentration: 4.781 ug/mL

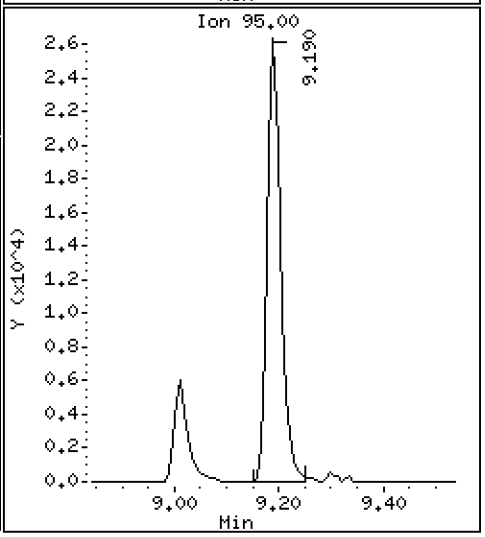


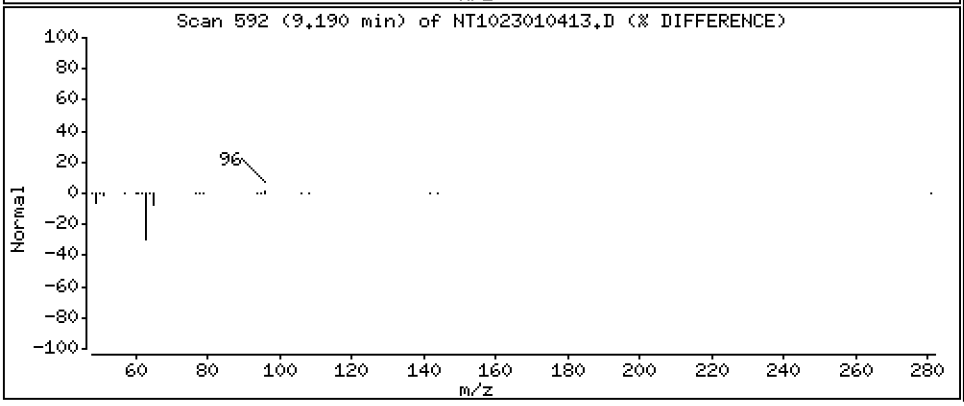












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

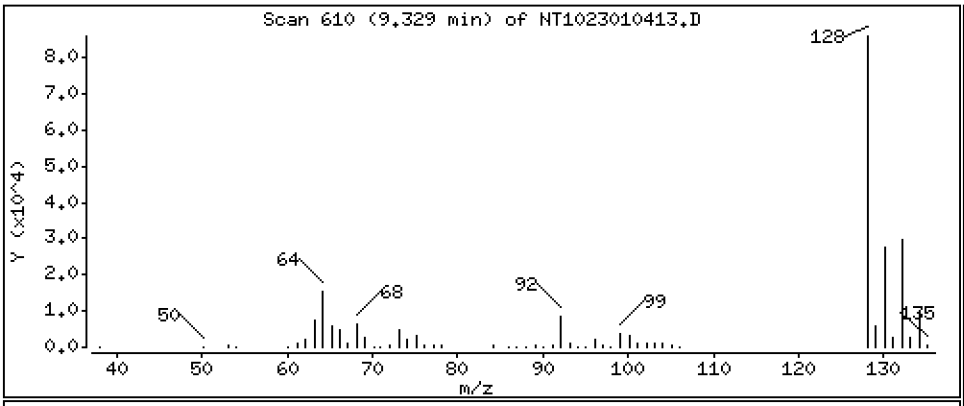
Operator: VTS

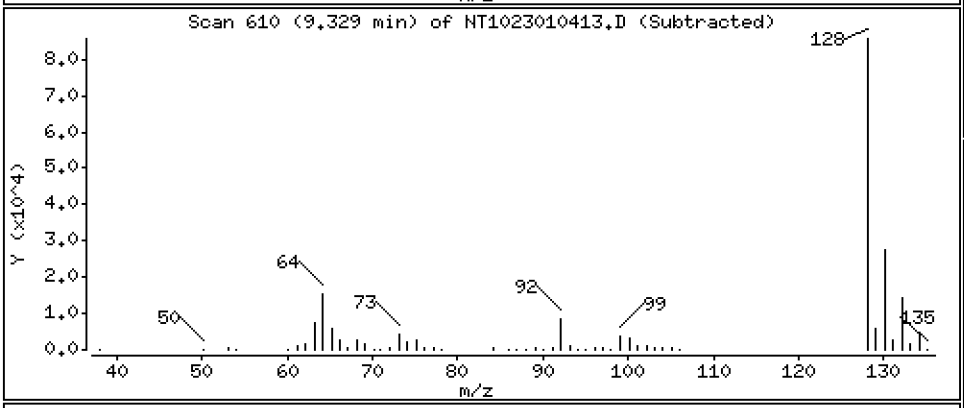
Column phase: ZB-5msi

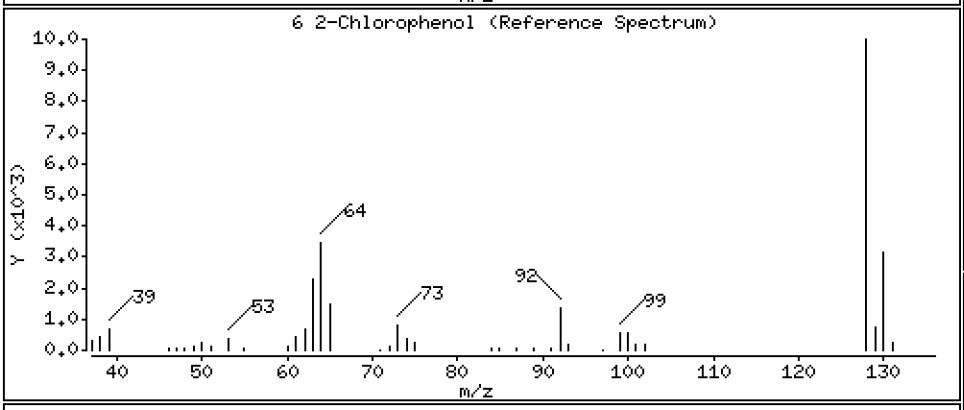
Column diameter: 0.25

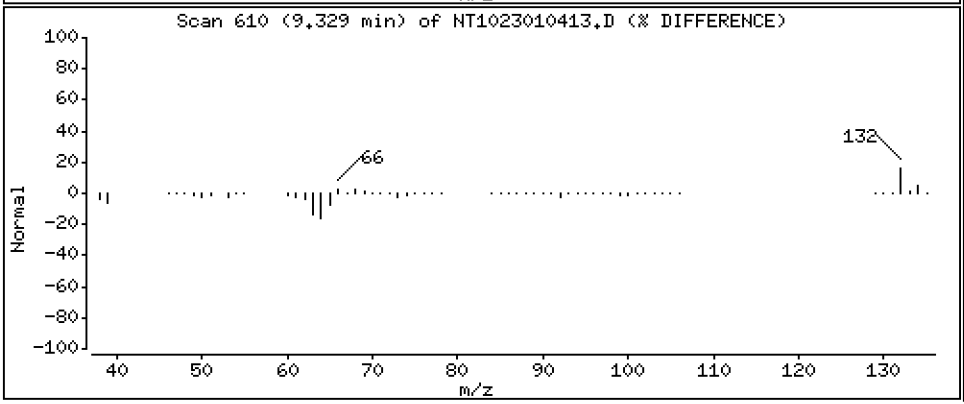
6 2-Chlorophenol

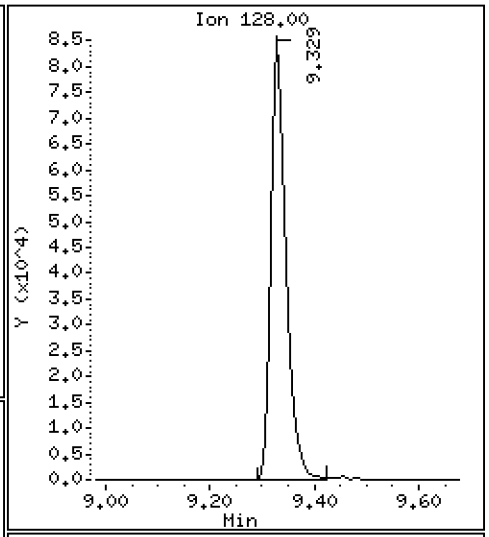
Concentration: 5.153 ug/mL

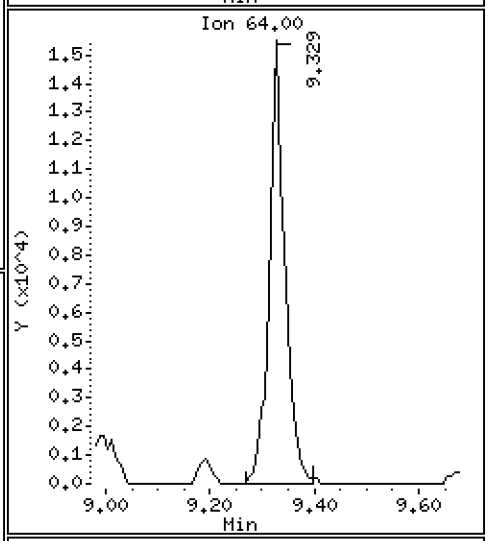


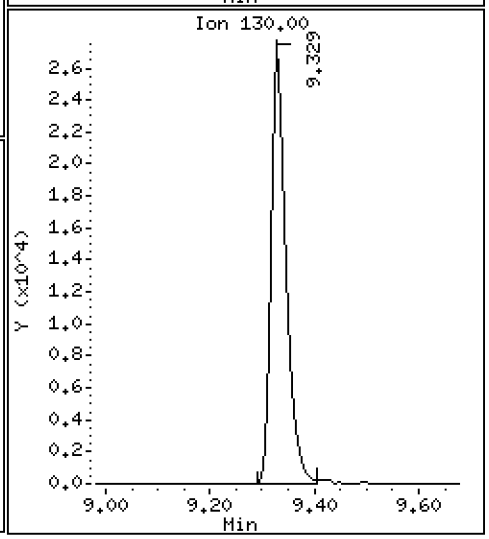












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

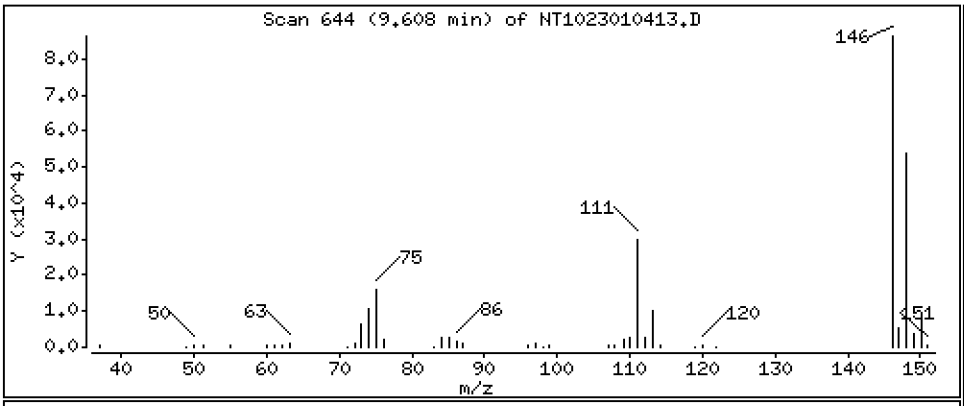
Operator: VTS

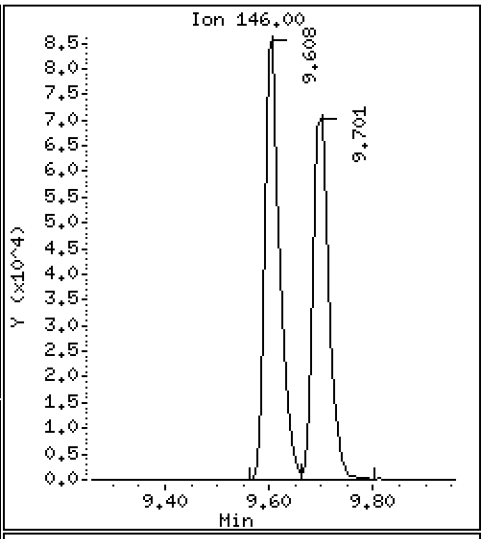
Column phase: ZB-5msi

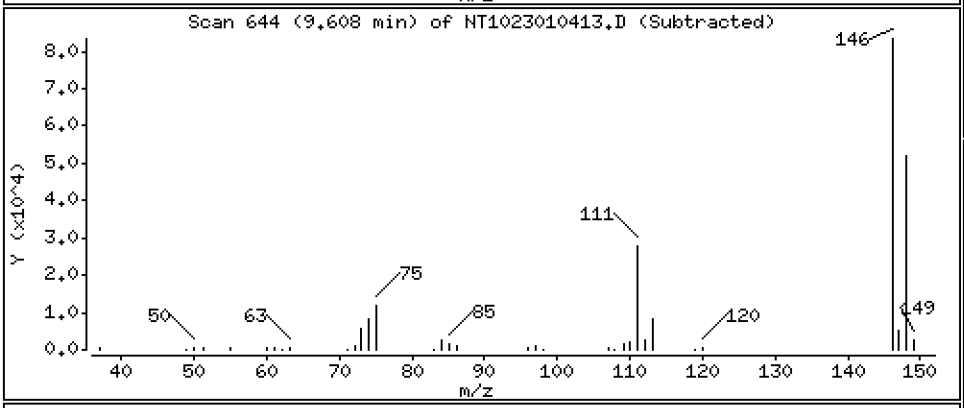
Column diameter: 0.25

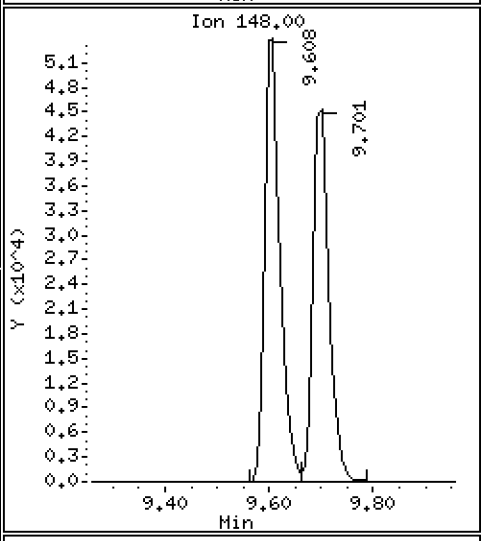
7 1,3-Dichlorobenzene

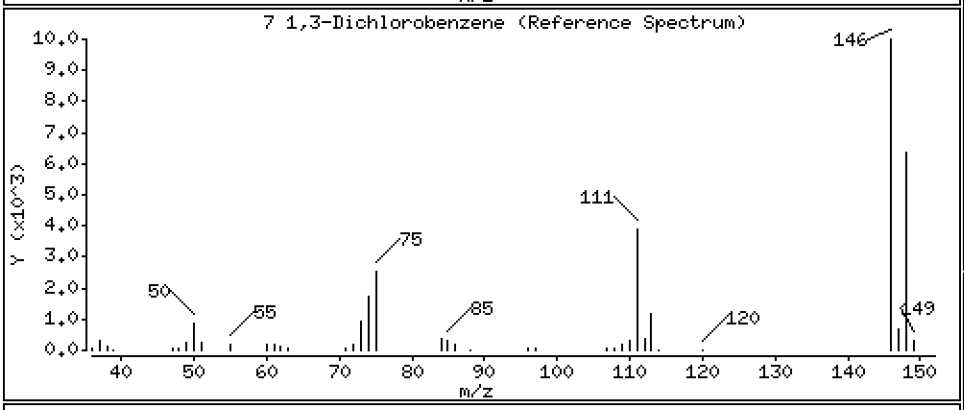
Concentration: 5.030 ug/mL

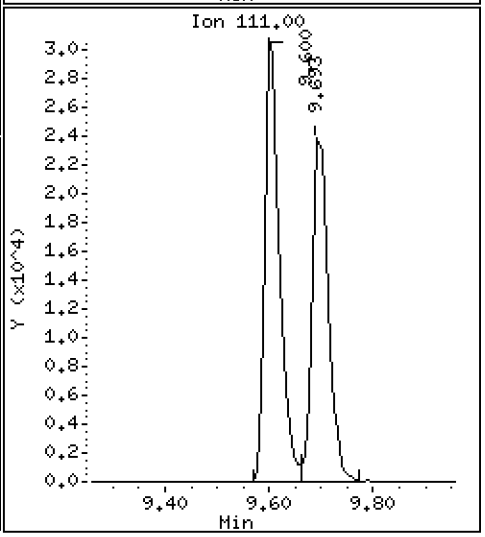


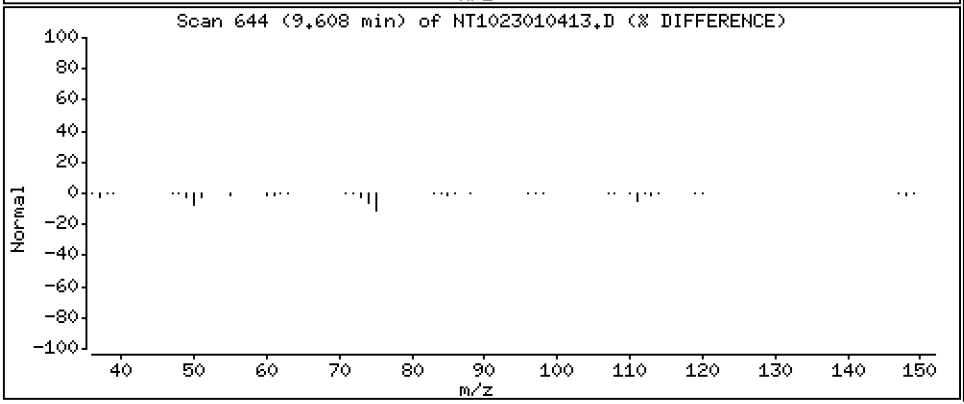












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

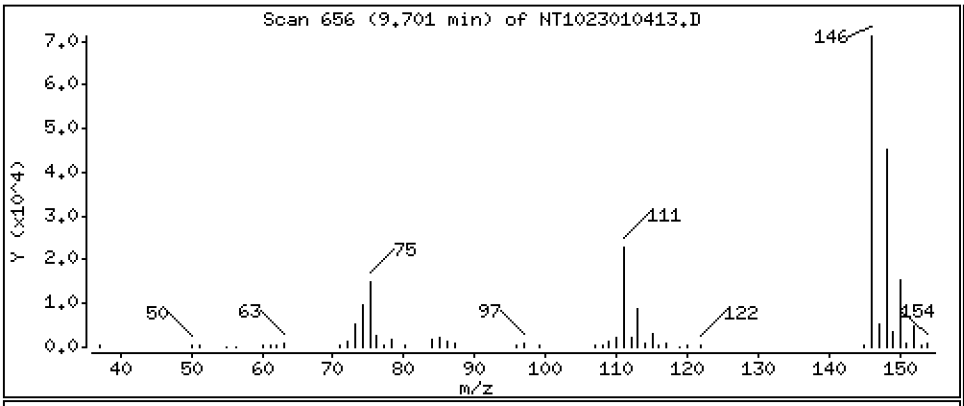
Operator: VTS

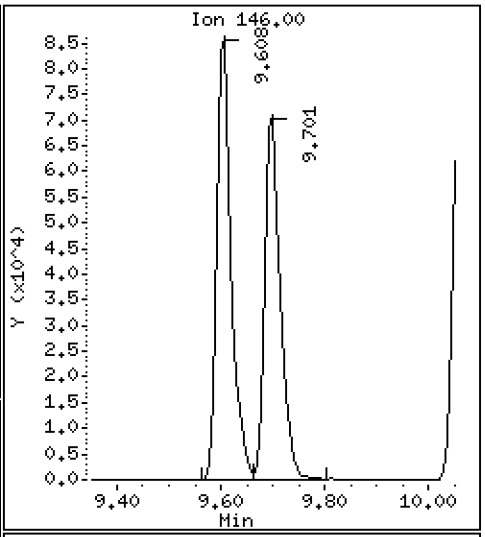
Column phase: ZB-5msi

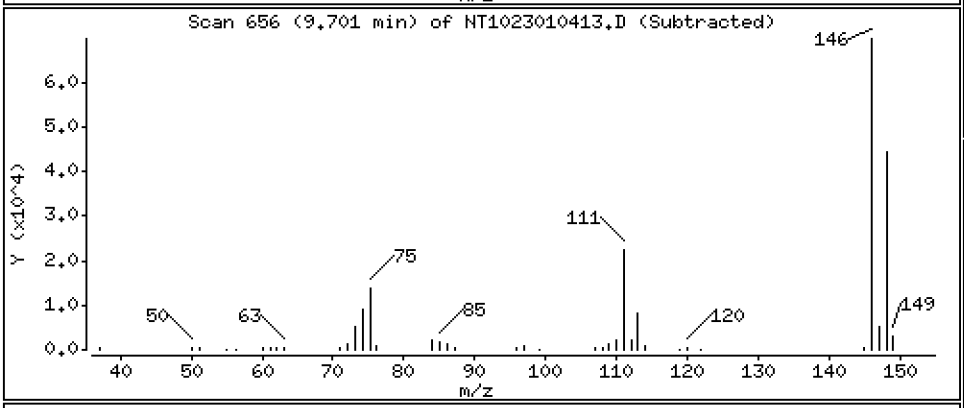
Column diameter: 0.25

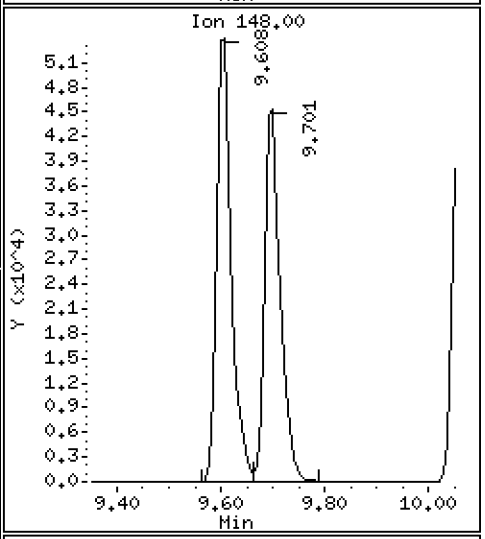
9 1,4-Dichlorobenzene

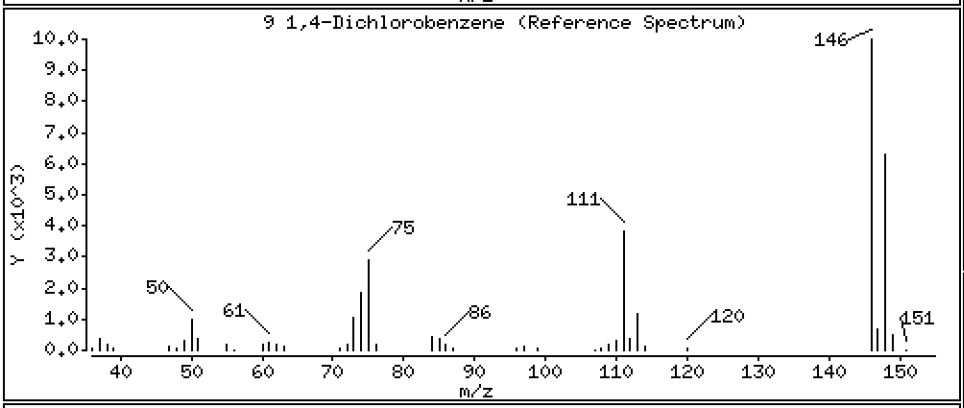
Concentration: 4.966 ug/mL

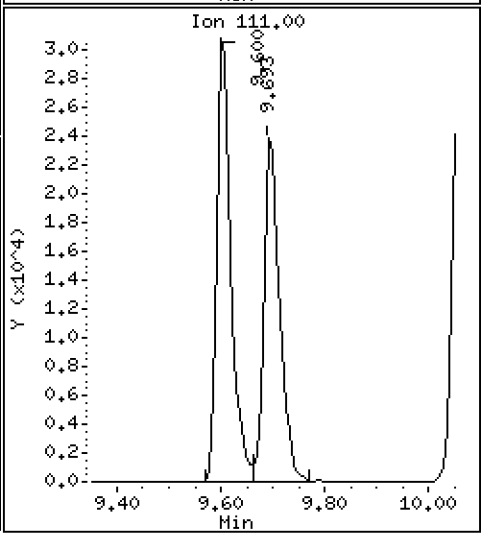


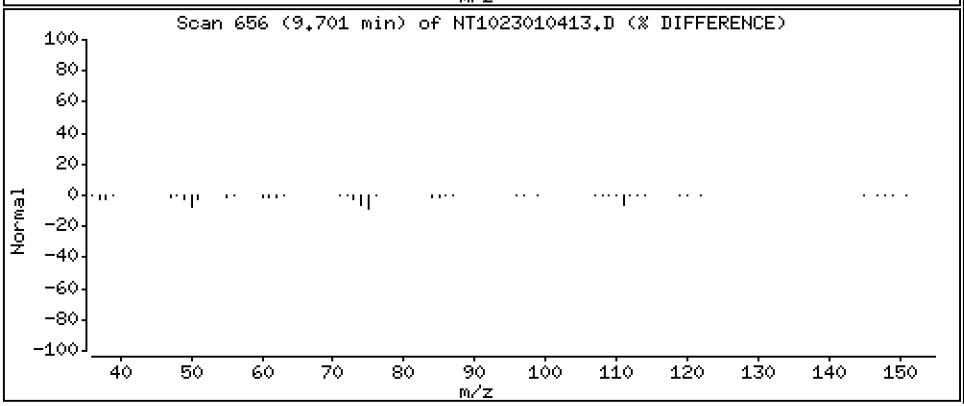












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

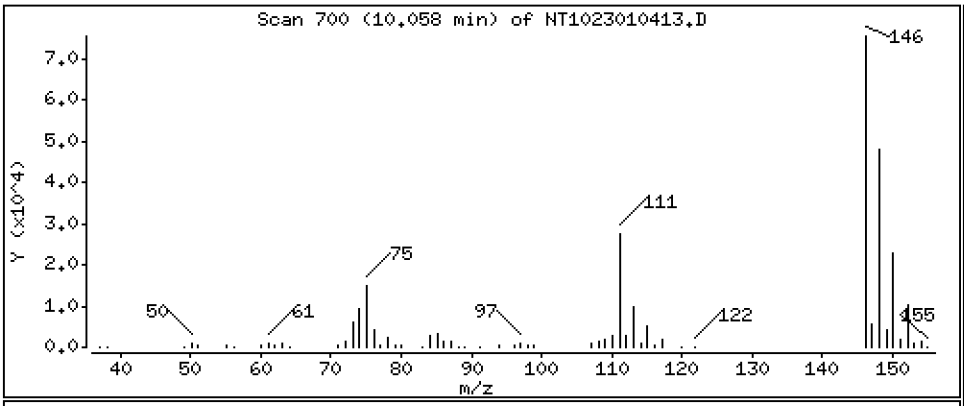
Operator: VTS

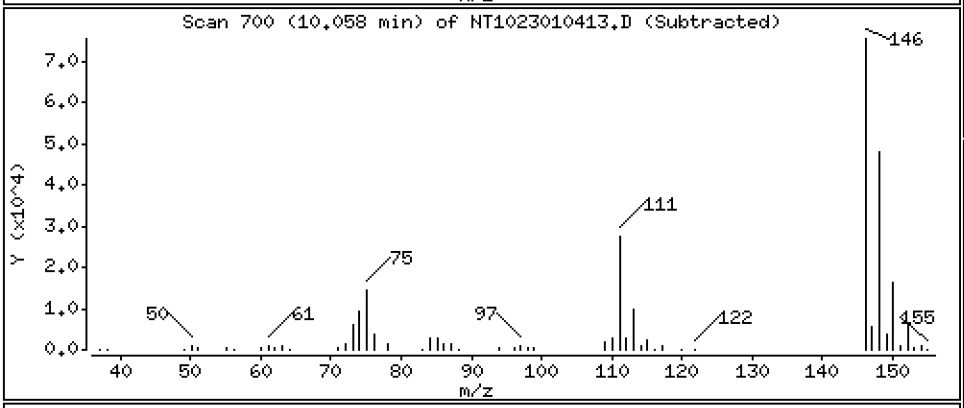
Column phase: ZB-5msi

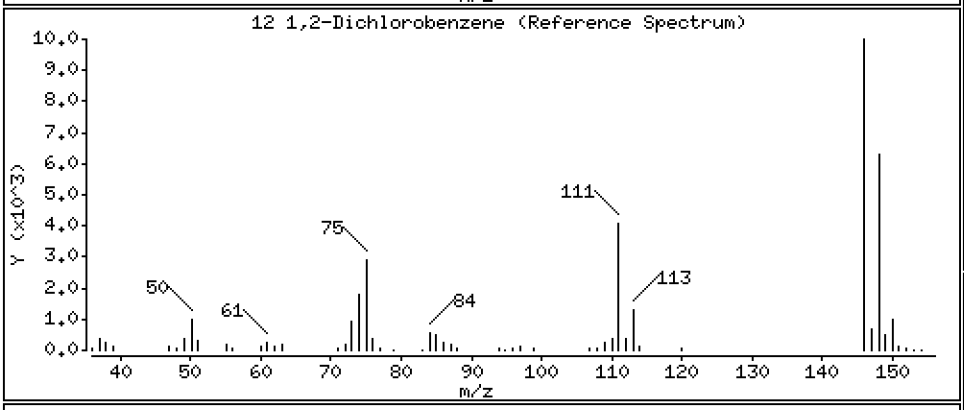
Column diameter: 0.25

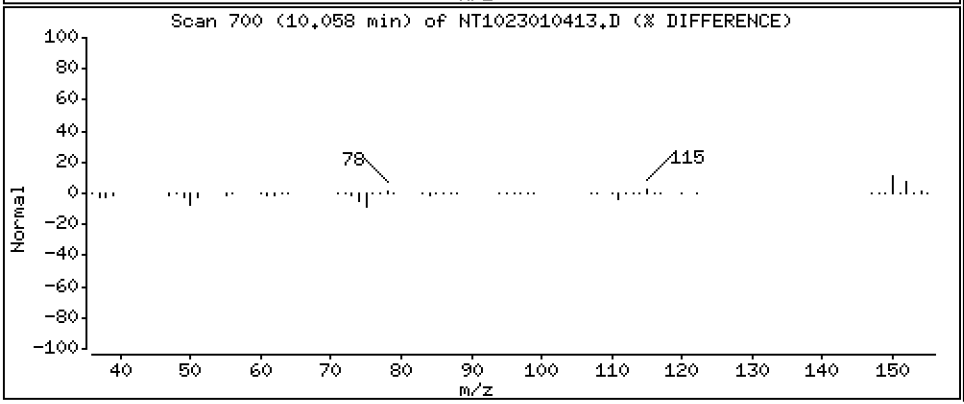
12 1,2-Dichlorobenzene

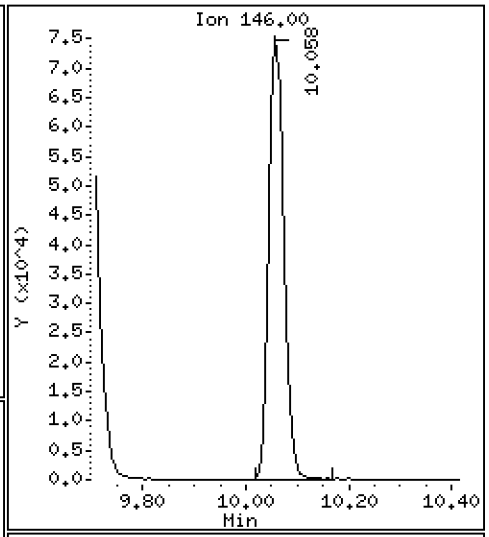
Concentration: 4.933 ug/mL

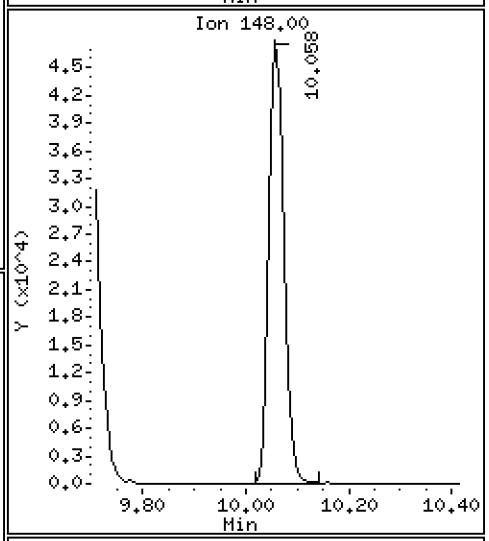


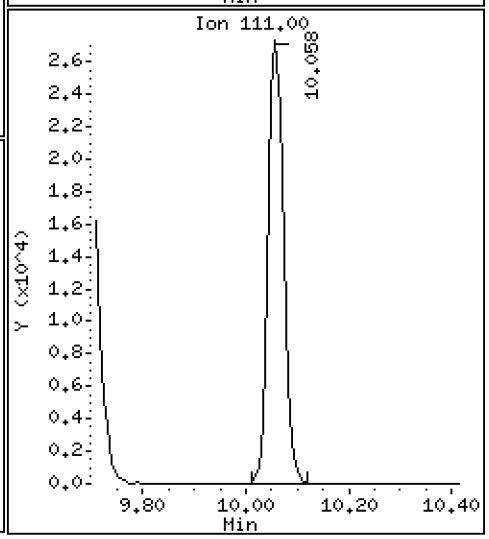












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

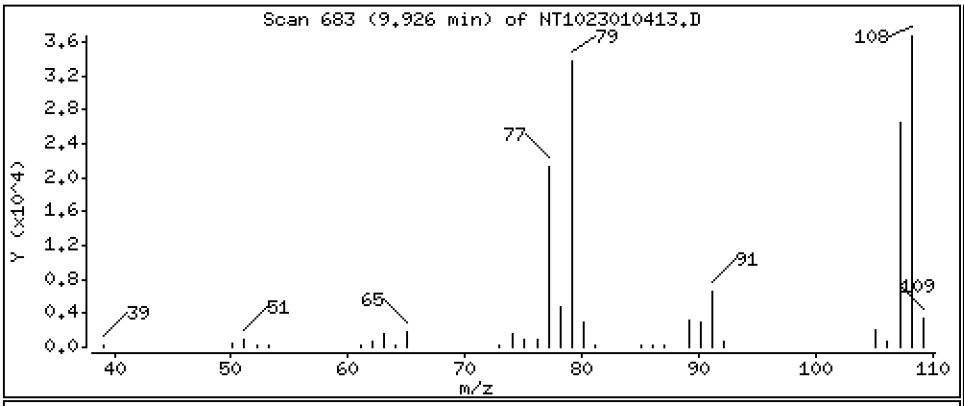
Operator: VTS

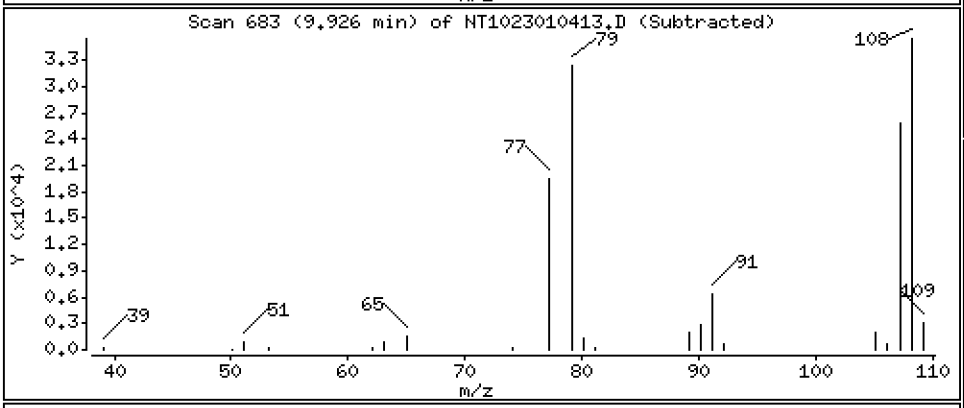
Column phase: ZB-5msi

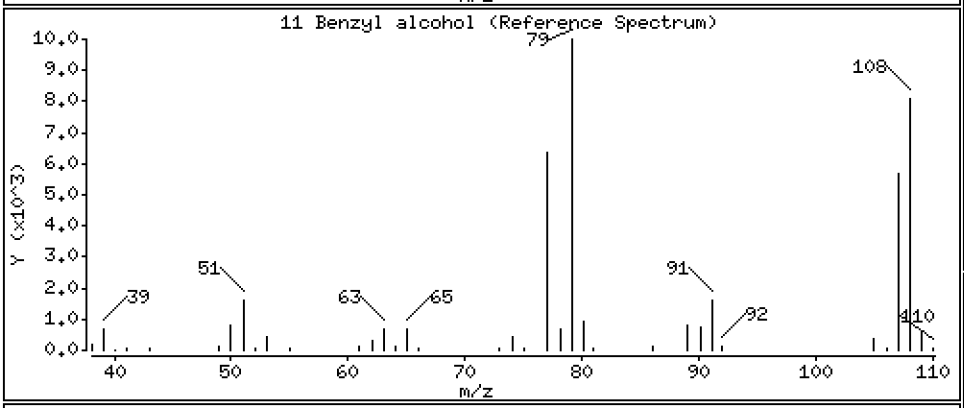
Column diameter: 0.25

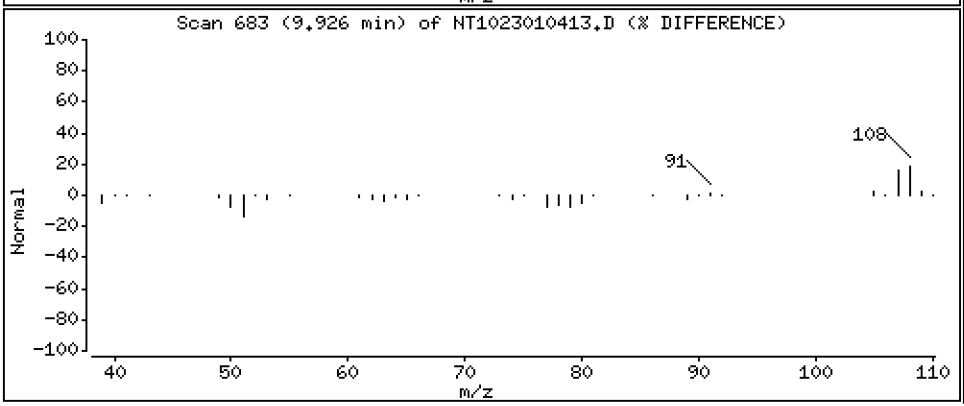
11 Benzyl alcohol

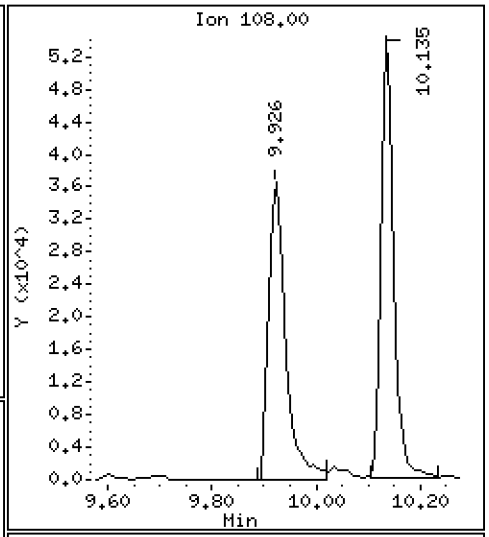
Concentration: 4.699 ug/mL

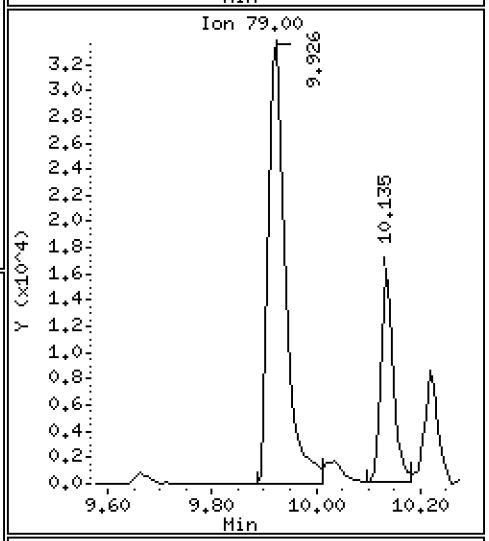


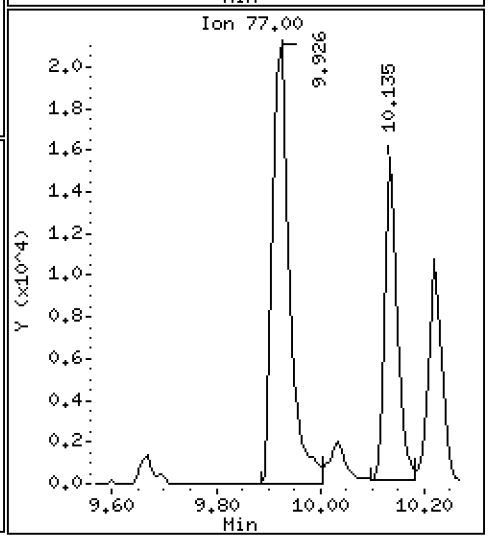












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

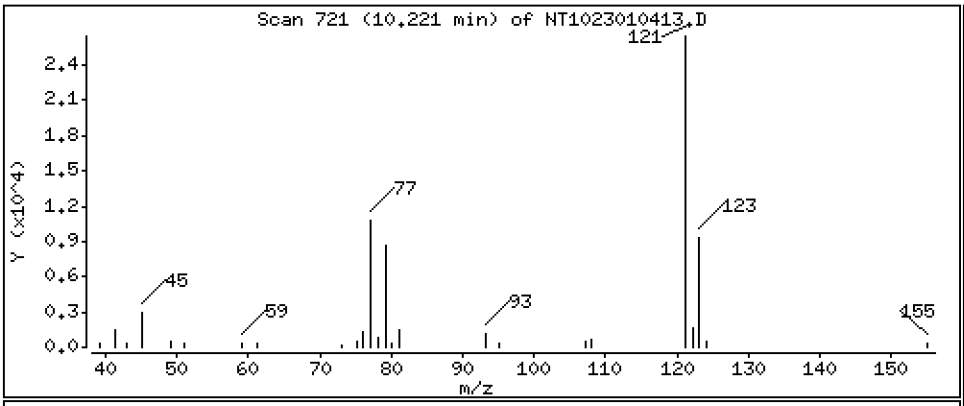
Operator: VTS

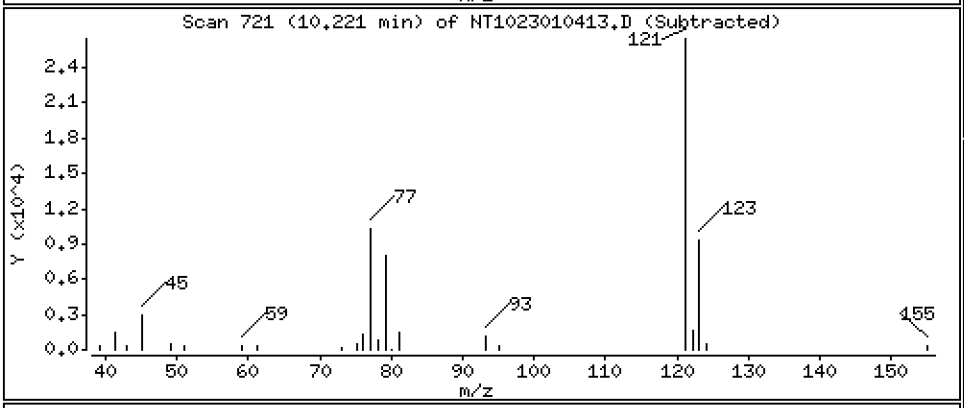
Column phase: ZB-5msi

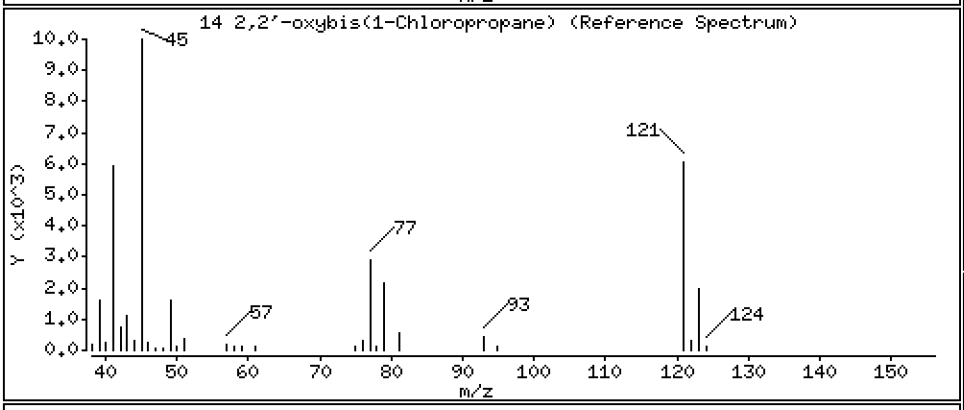
Column diameter: 0.25

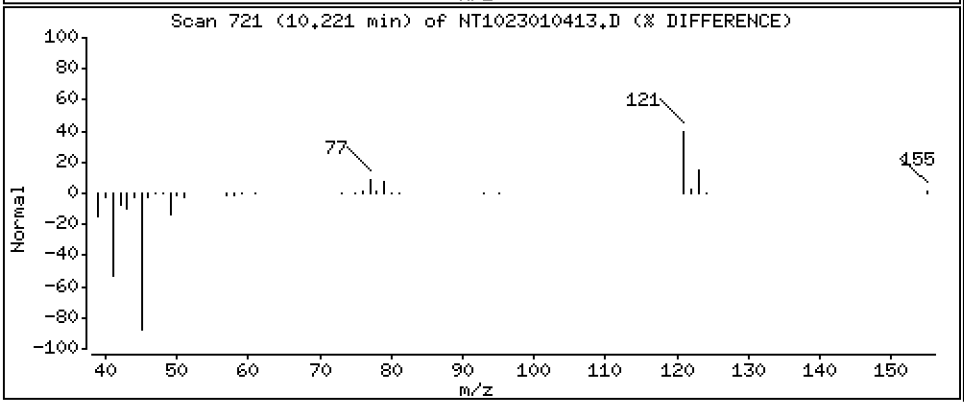
14 2,2'-oxybis(1-Chloropropane)

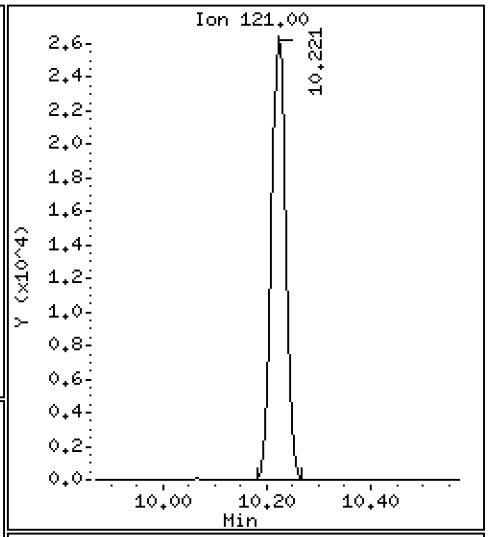
Concentration: 5.551 ug/mL

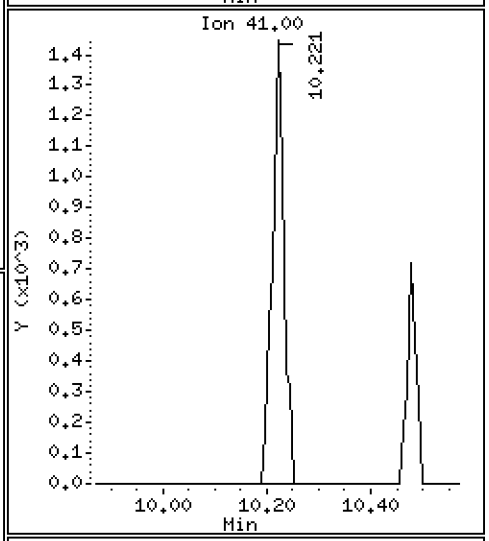


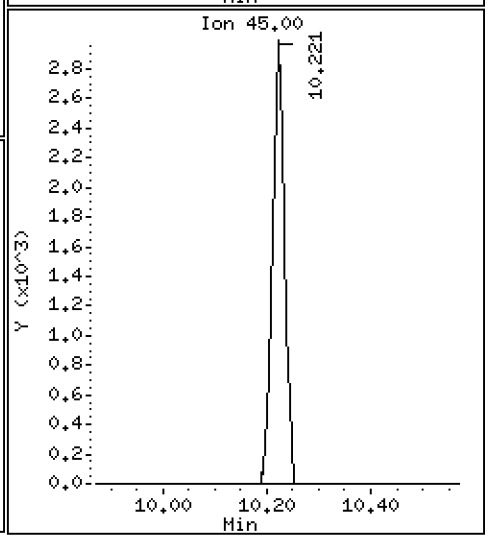












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

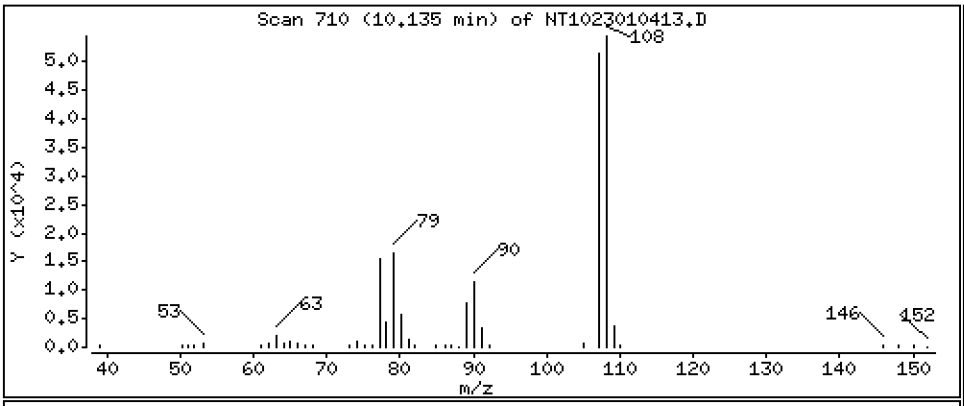
Operator: VTS

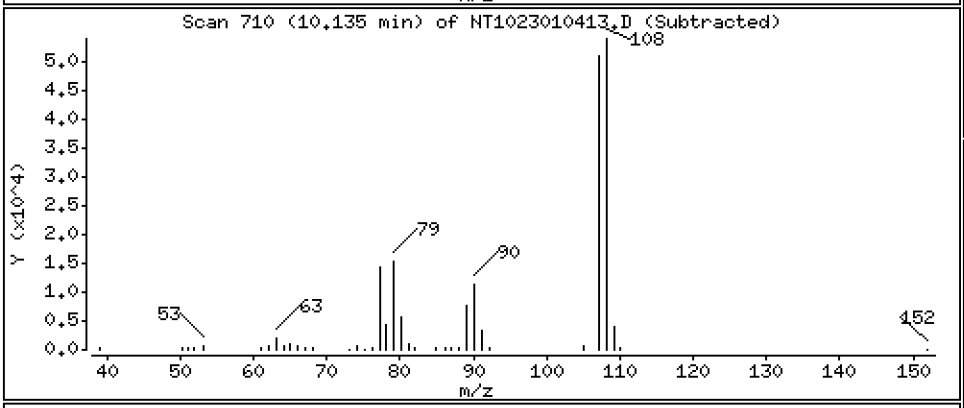
Column phase: ZB-5msi

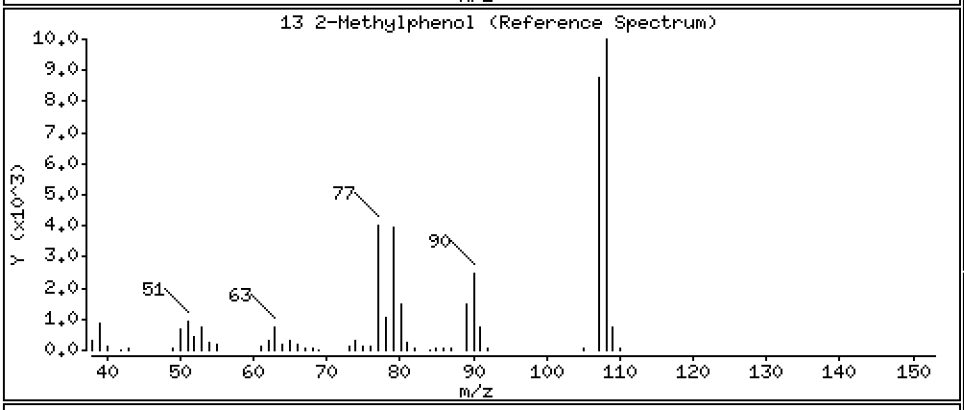
Column diameter: 0.25

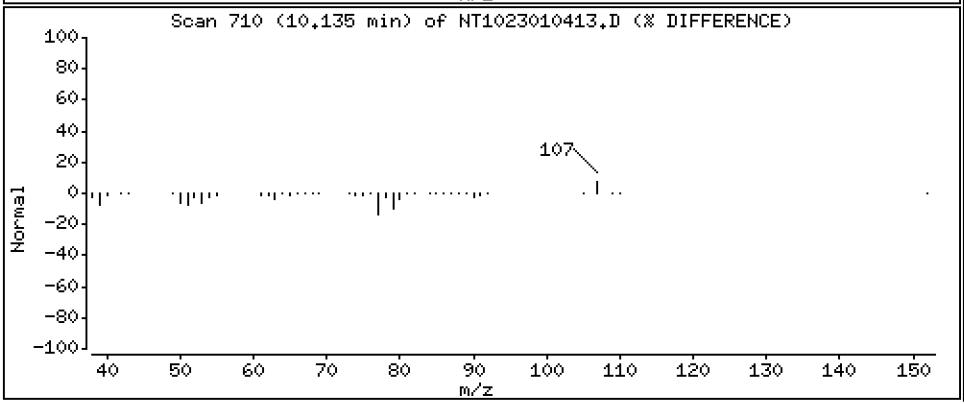
13 2-Methylphenol

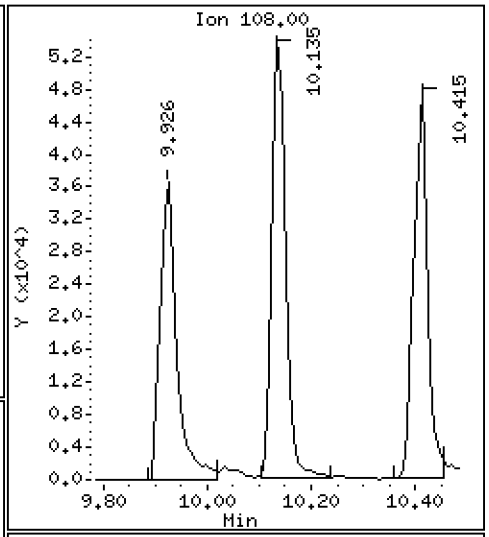
Concentration: 4.163 ug/mL

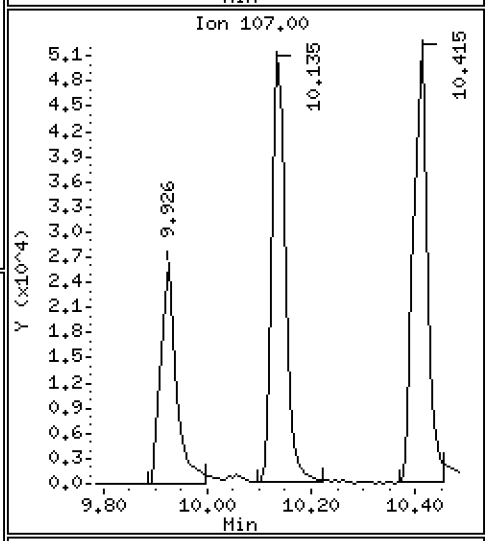


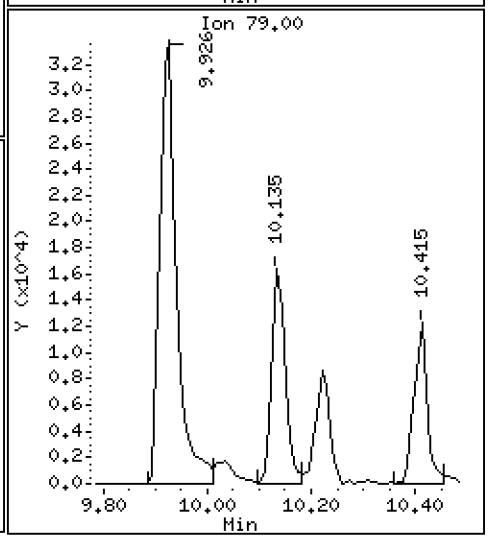












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

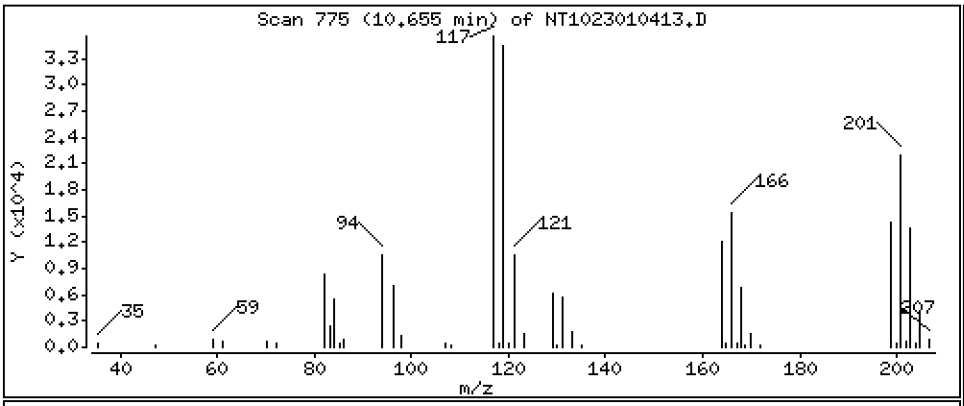
Operator: VTS

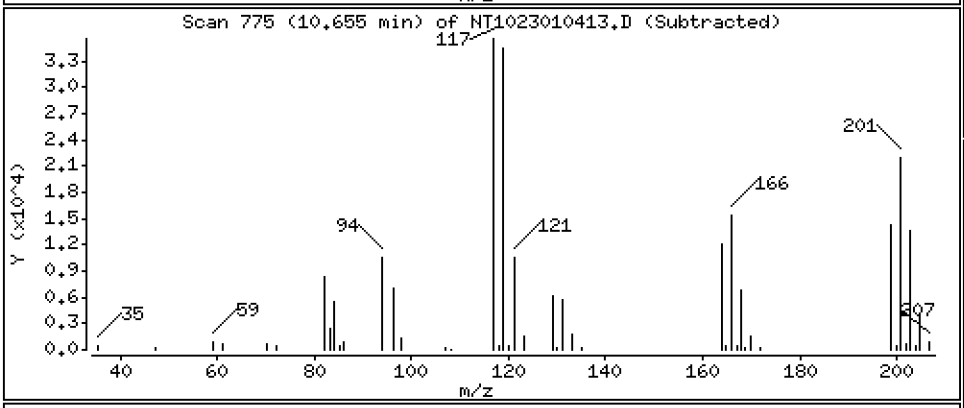
Column phase: ZB-5msi

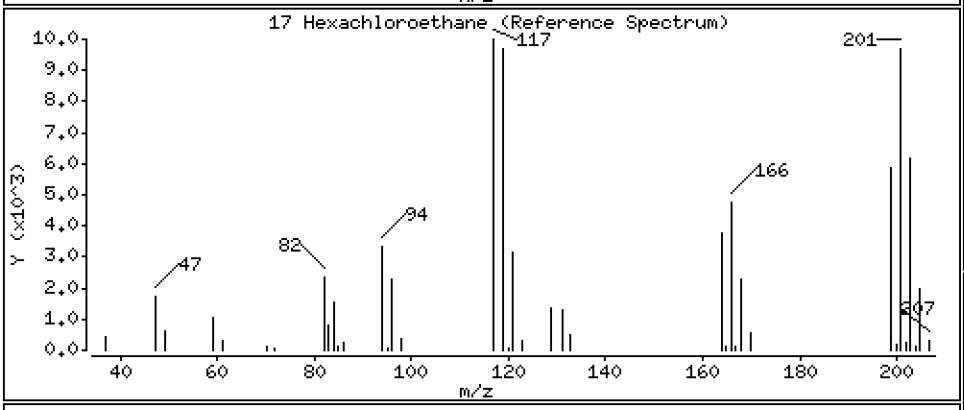
Column diameter: 0.25

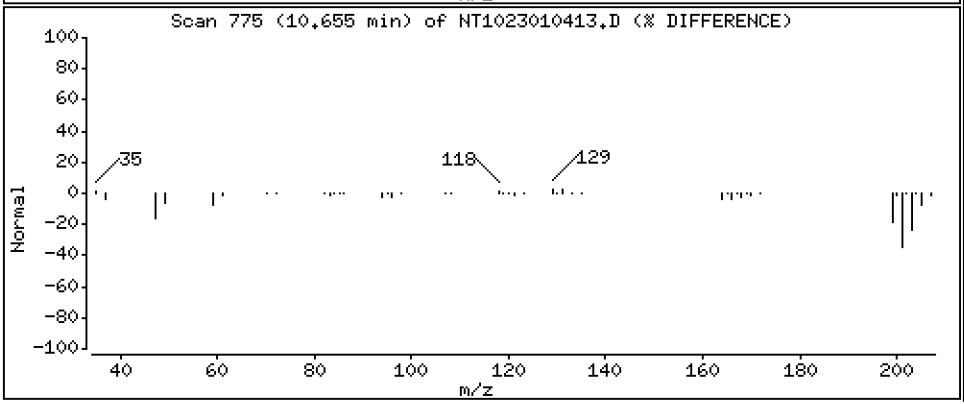
17 Hexachloroethane

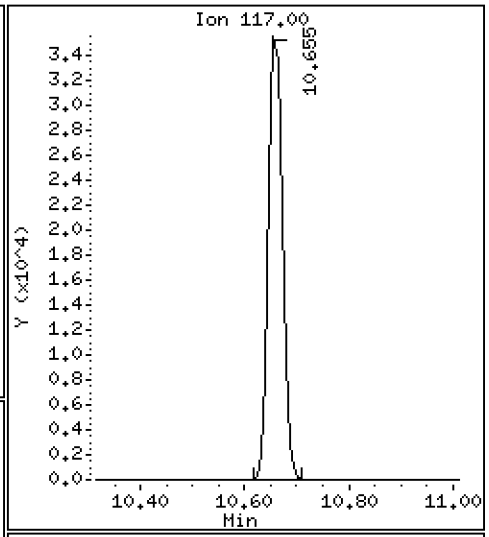
Concentration: 5.055 ug/mL

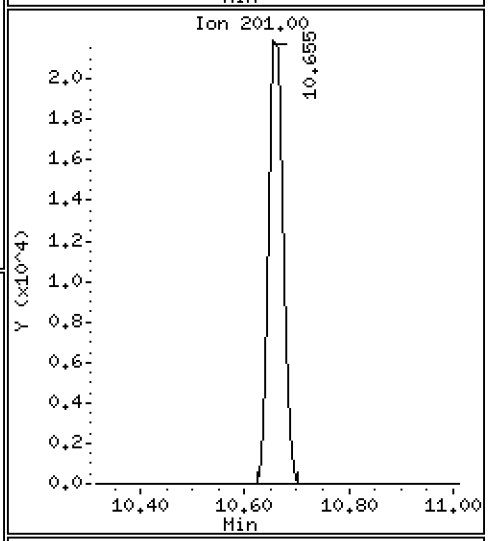


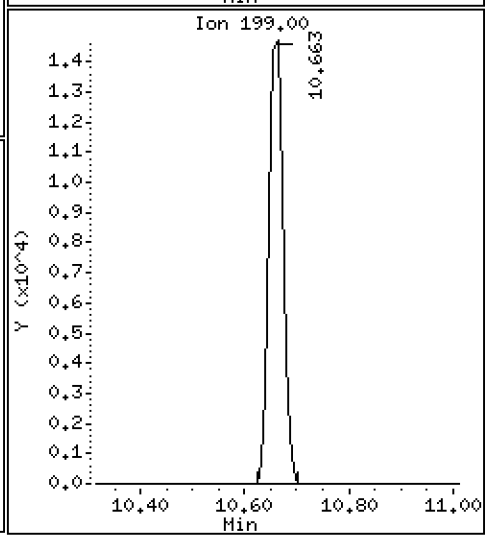












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

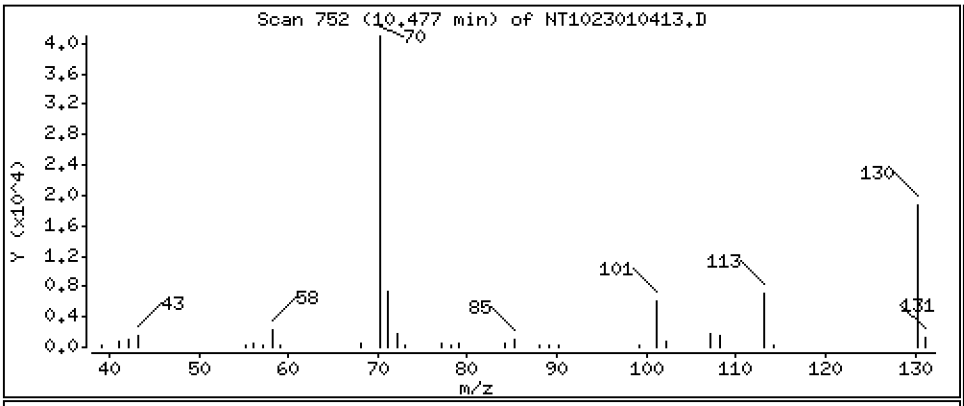
Operator: VTS

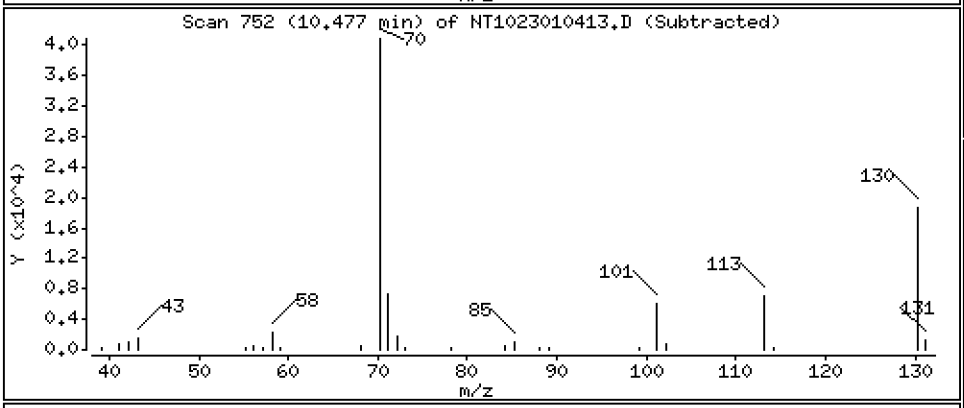
Column phase: ZB-5msi

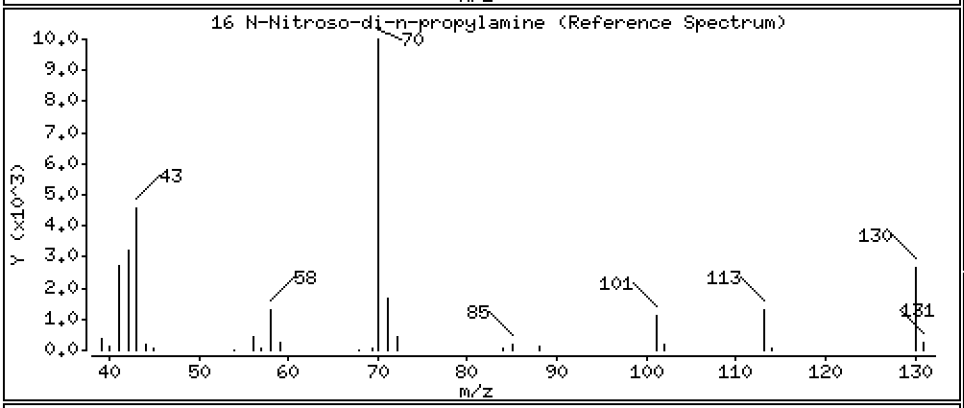
Column diameter: 0.25

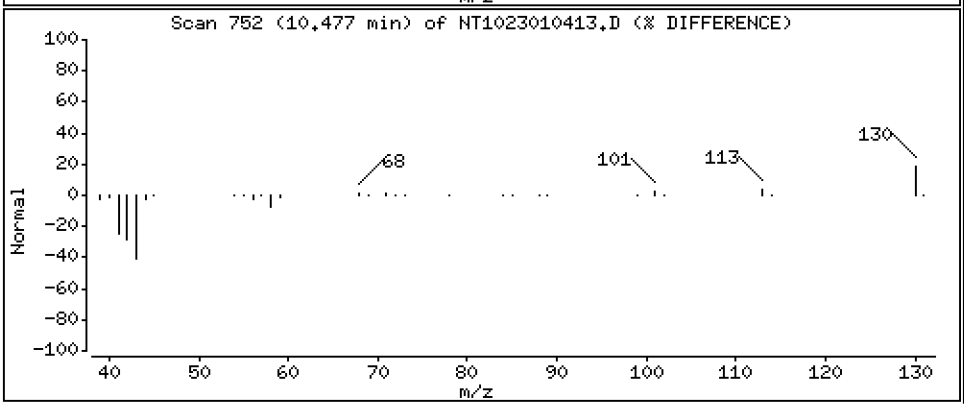
16 N-Nitroso-di-n-propylamine

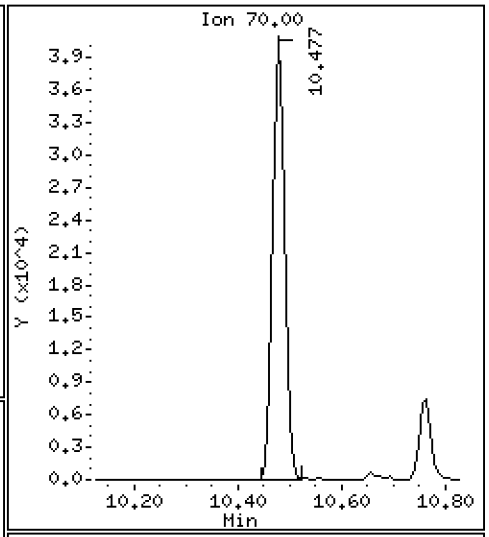
Concentration: 5.181 ug/mL

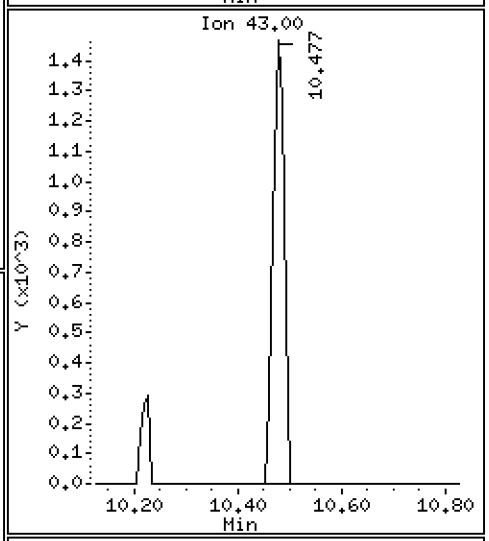


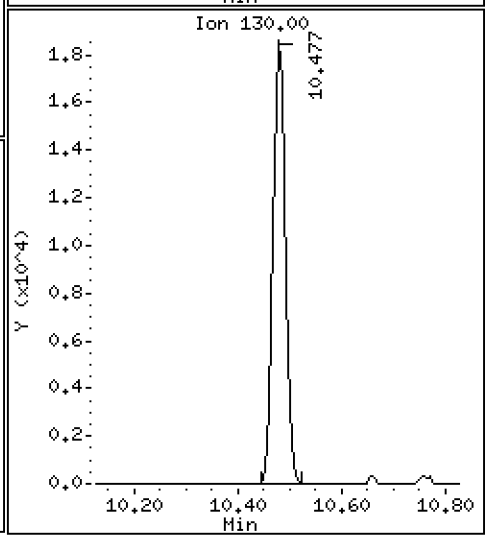












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

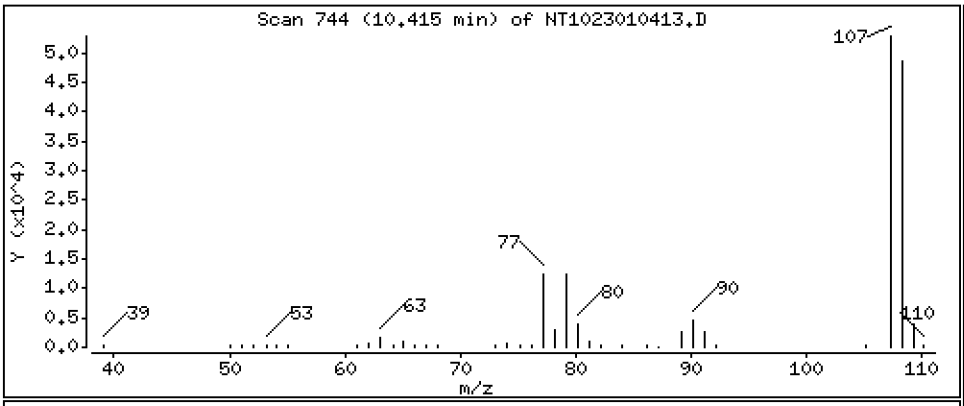
Operator: VTS

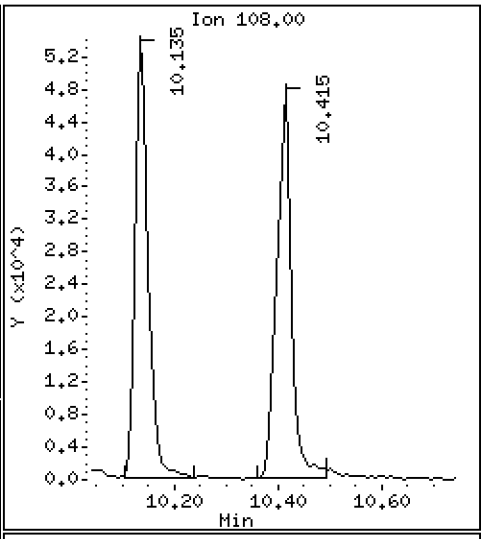
Column phase: ZB-5msi

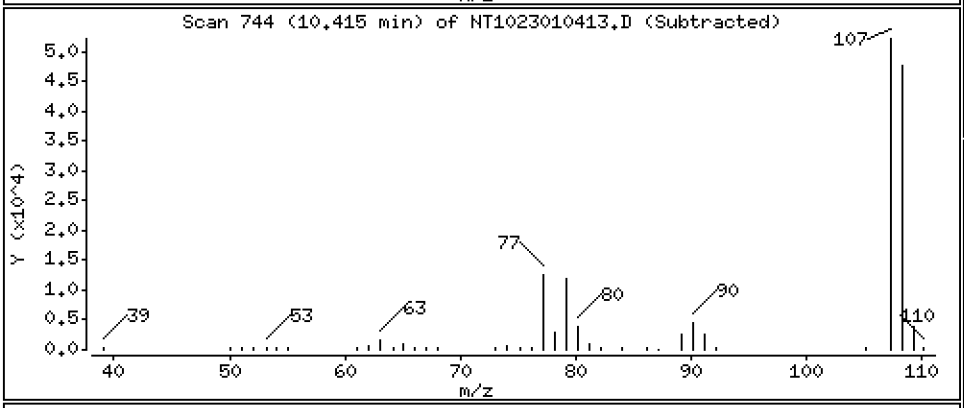
Column diameter: 0.25

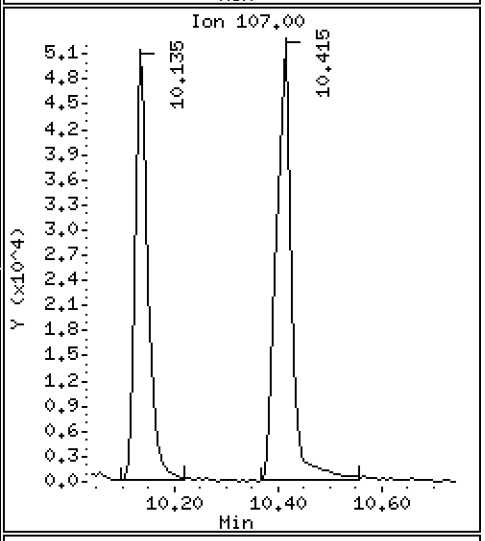
15 4-Methylphenol

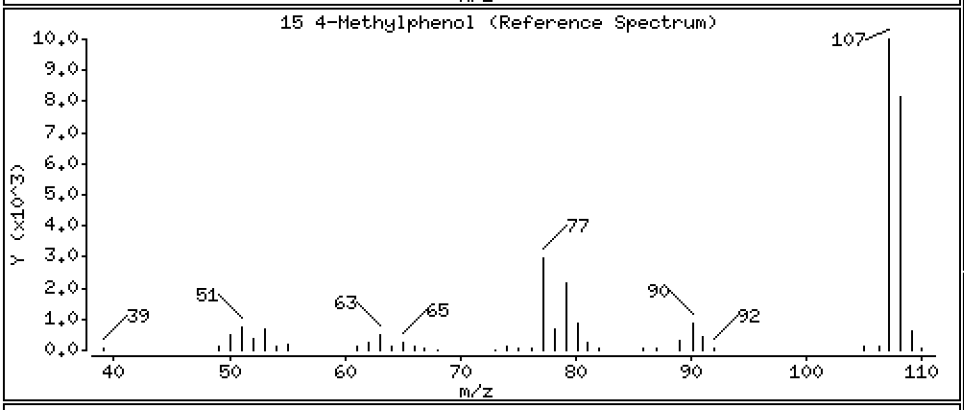
Concentration: 4.573 ug/mL

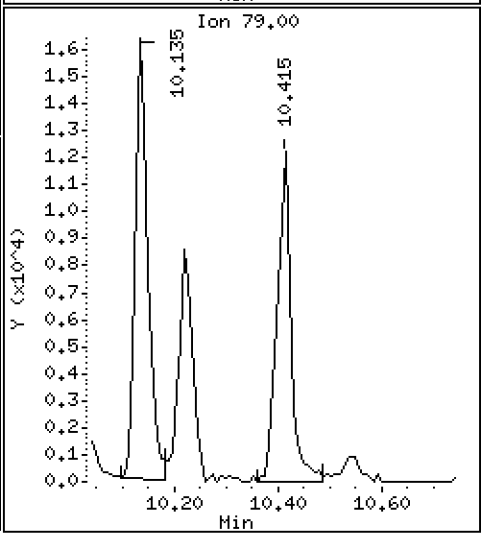


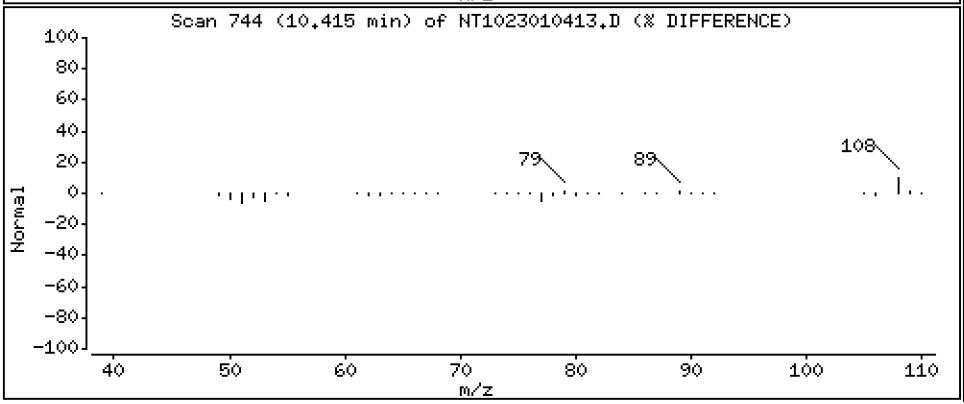












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

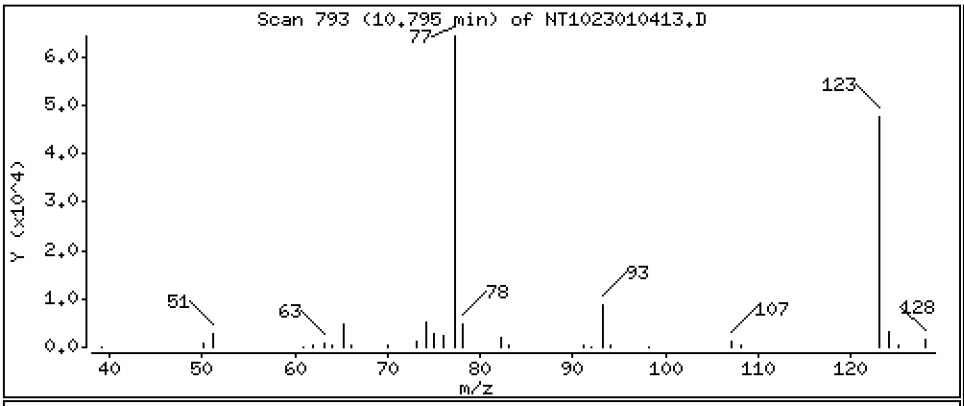
Operator: VTS

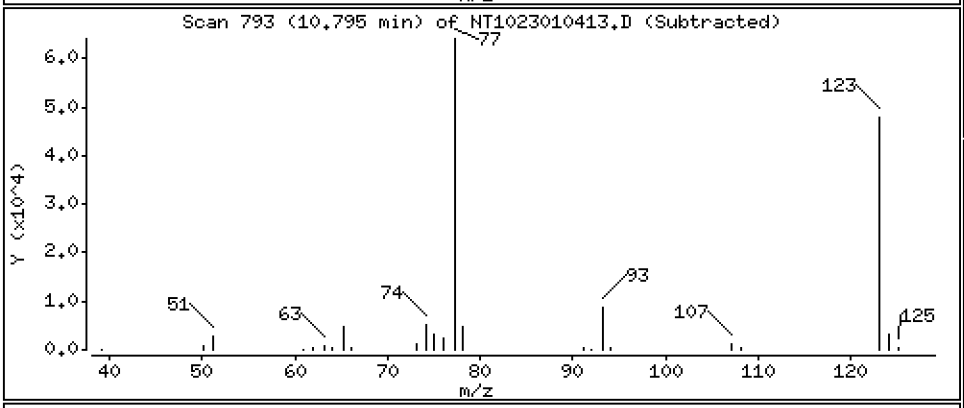
Column phase: ZB-5msi

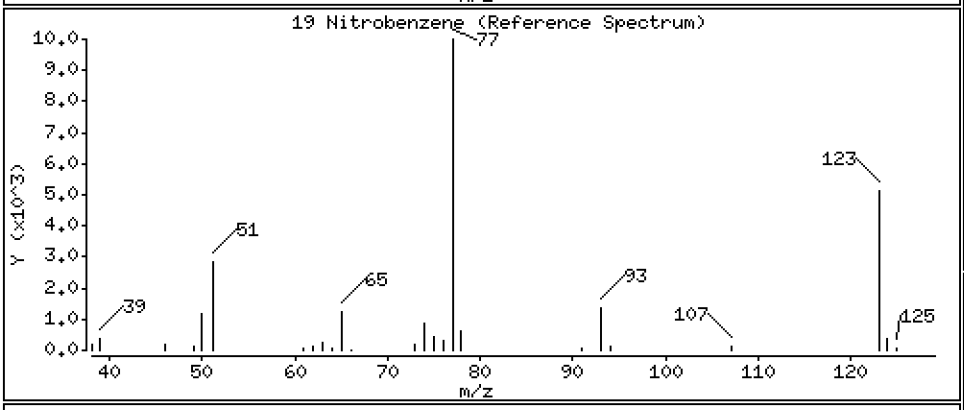
Column diameter: 0.25

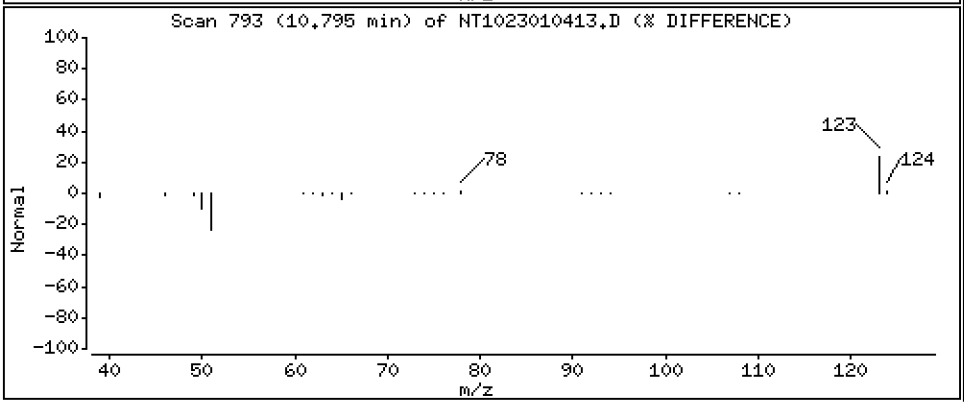
19 Nitrobenzene

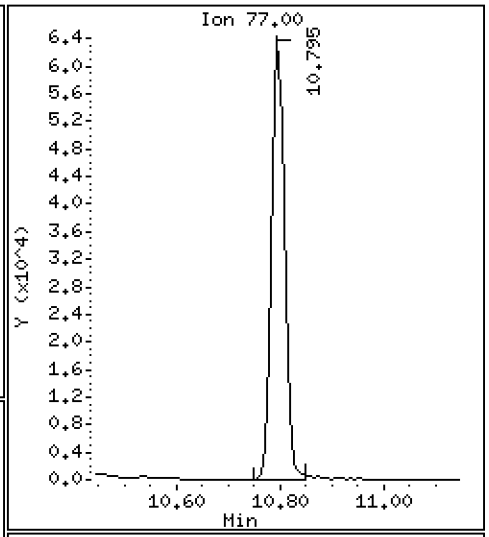
Concentration: 4.932 ug/mL

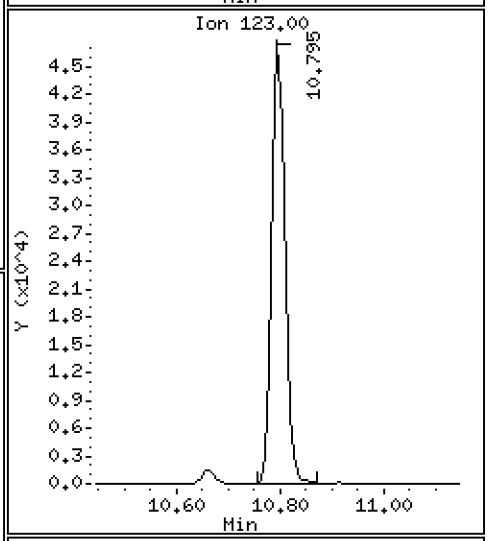


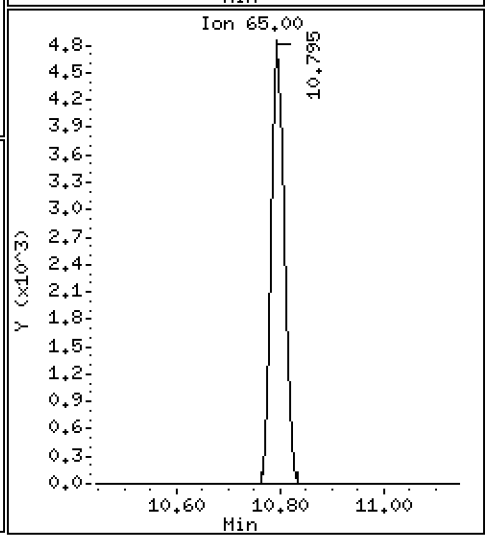












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

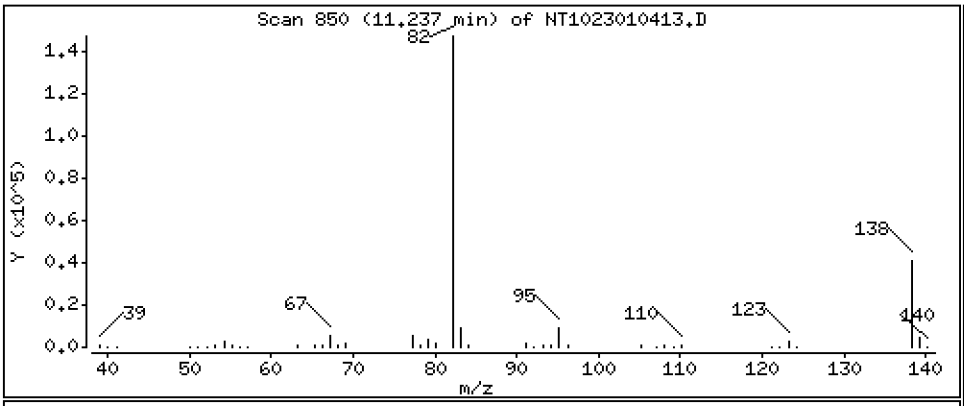
Operator: VTS

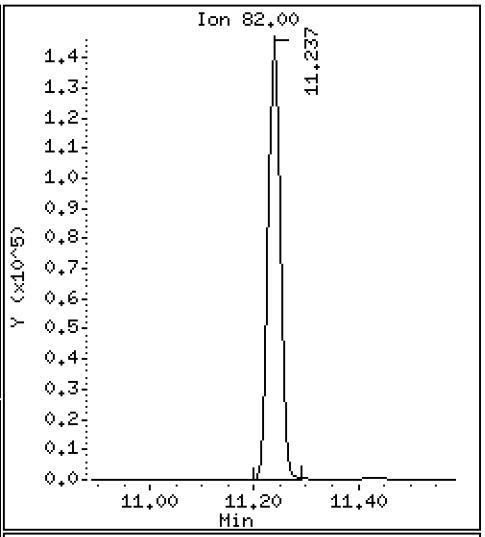
Column phase: ZB-5msi

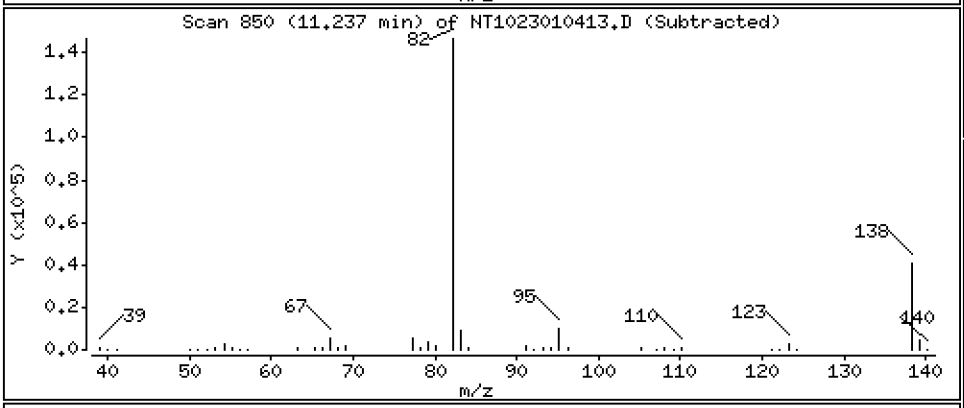
Column diameter: 0.25

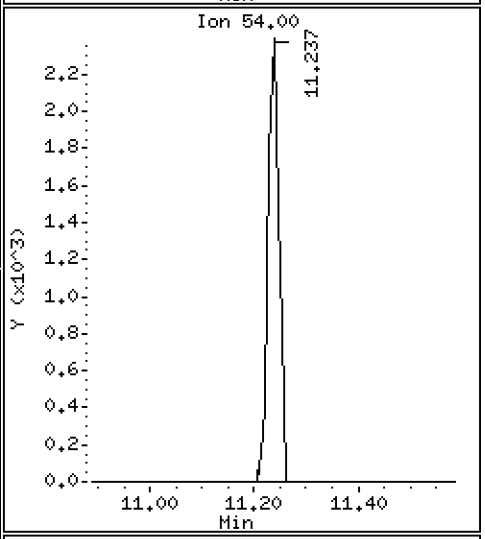
20 Isophorone

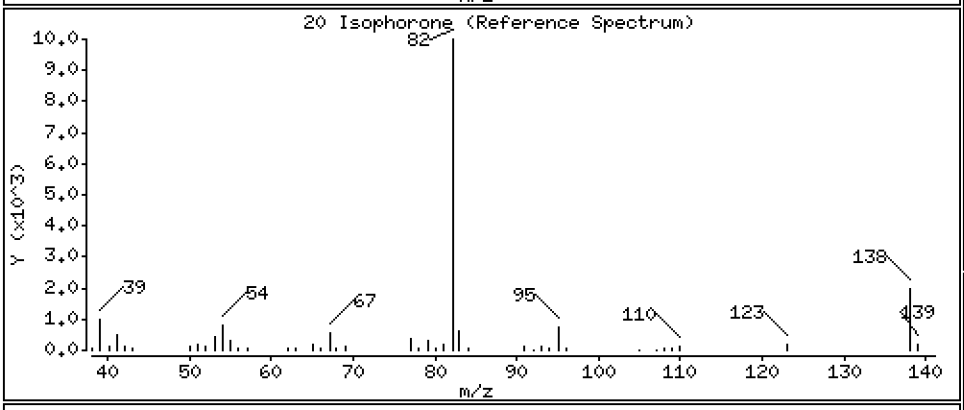
Concentration: 6.640 ug/mL

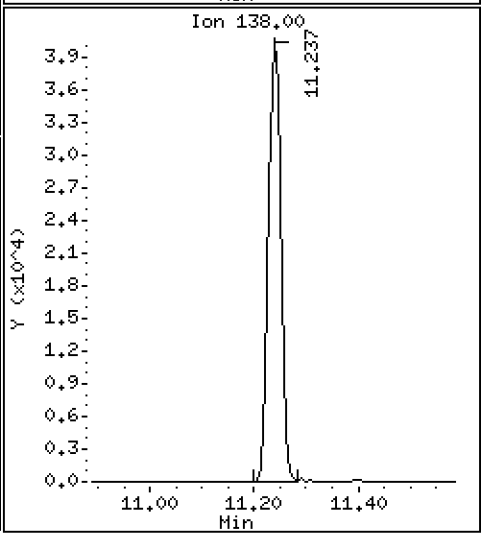


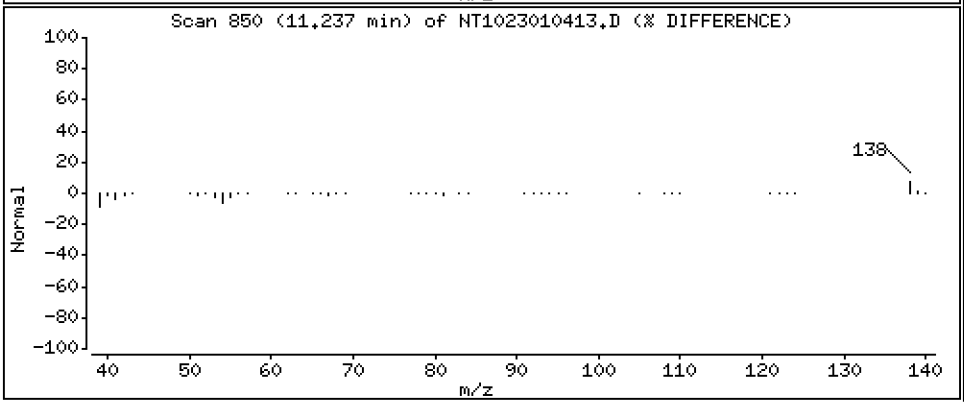












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

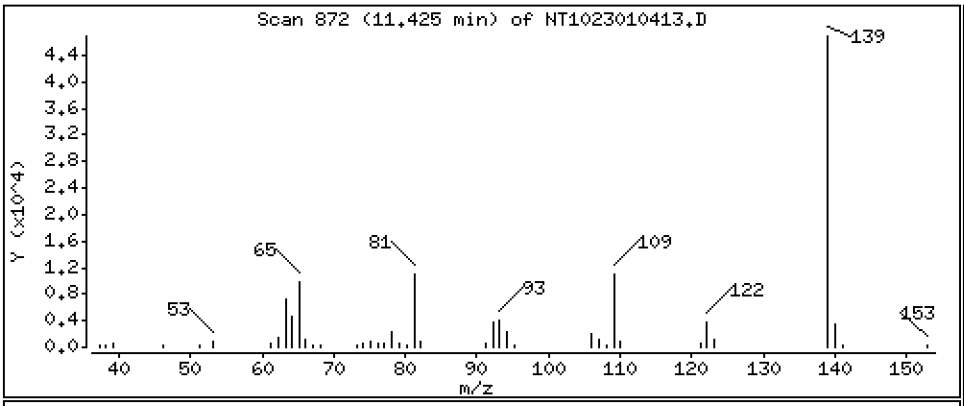
Operator: VTS

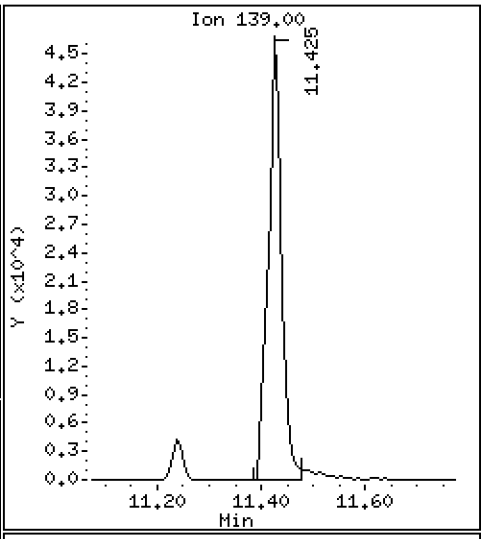
Column phase: ZB-5msi

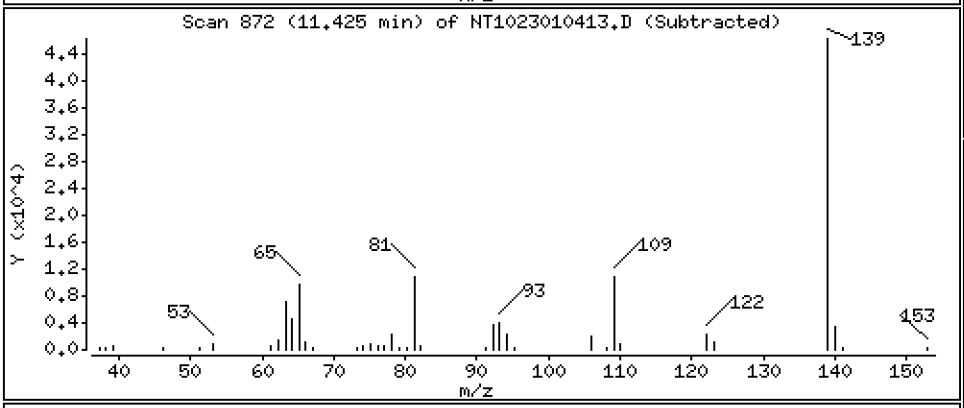
Column diameter: 0.25

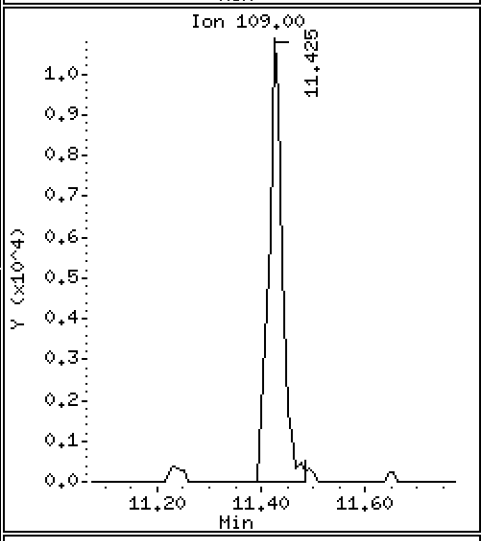
21 2-Nitrophenol

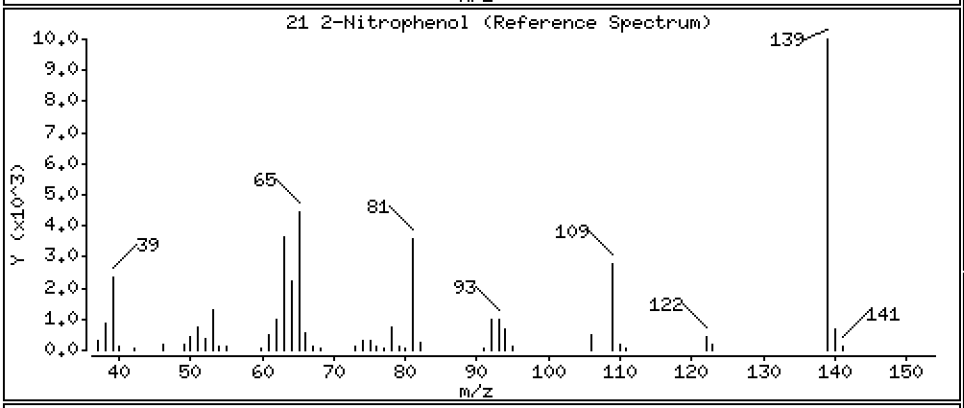
Concentration: 4.479 ug/mL

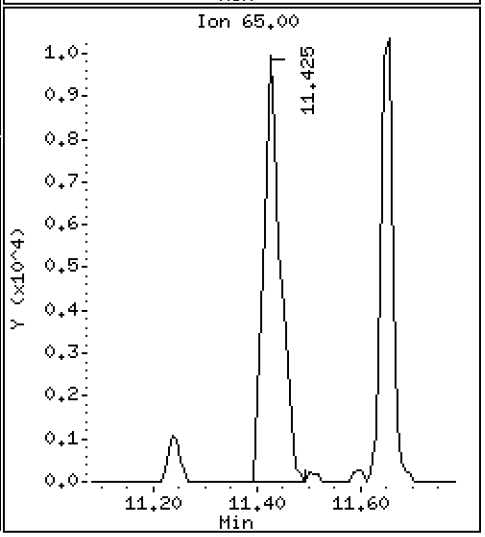


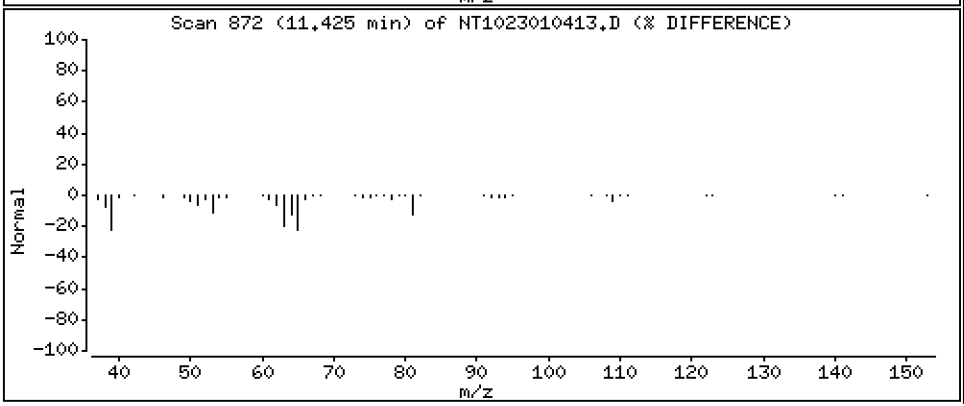












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

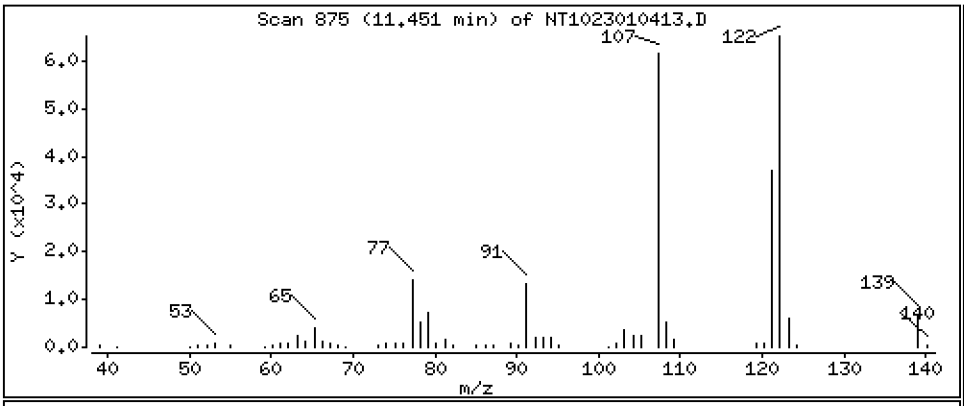
Operator: VTS

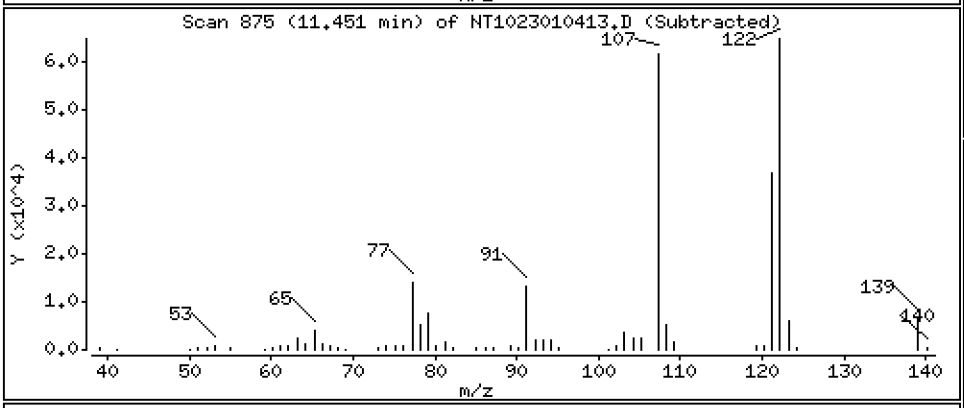
Column phase: ZB-5msi

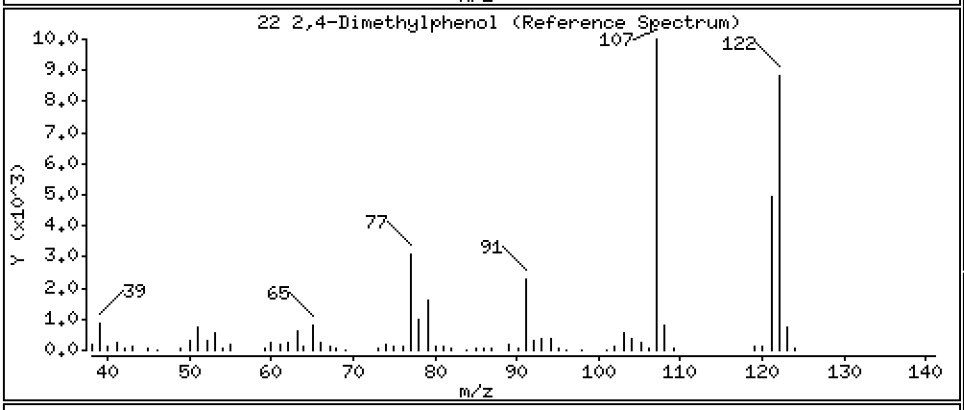
Column diameter: 0.25

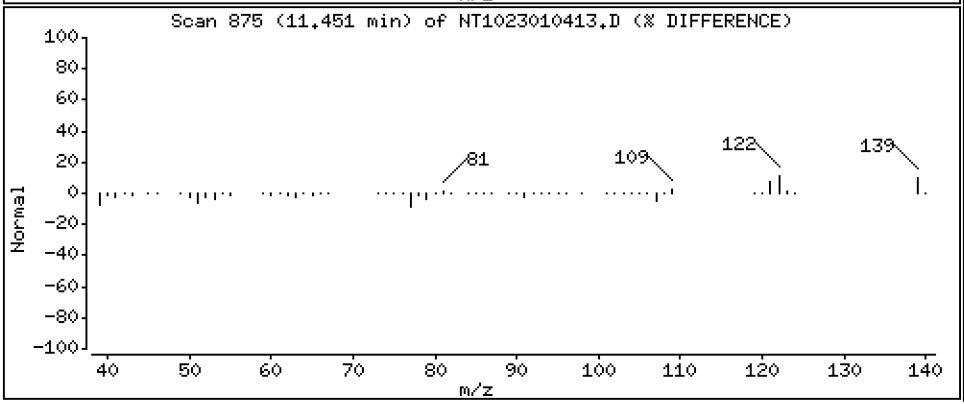
22 2,4-Dimethylphenol

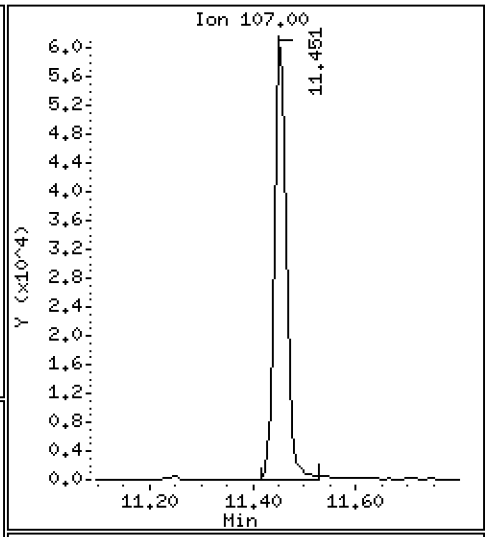
Concentration: 3.770 ug/mL

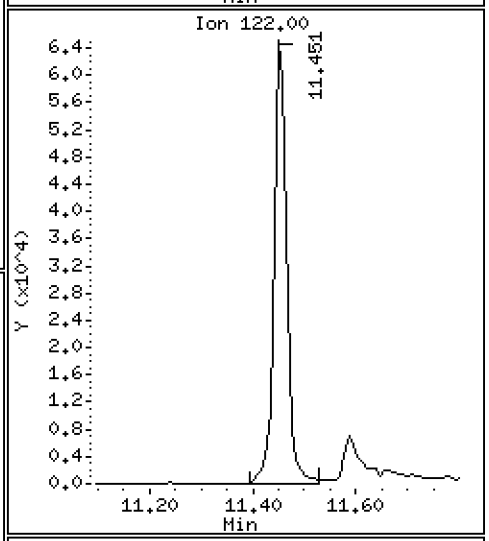


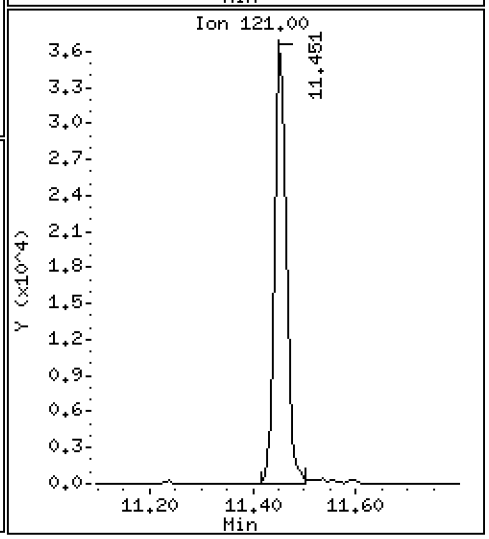












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

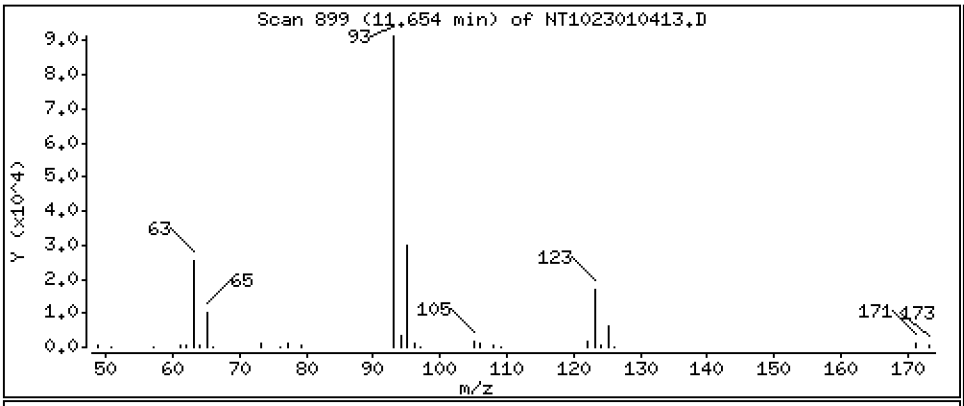
Operator: VTS

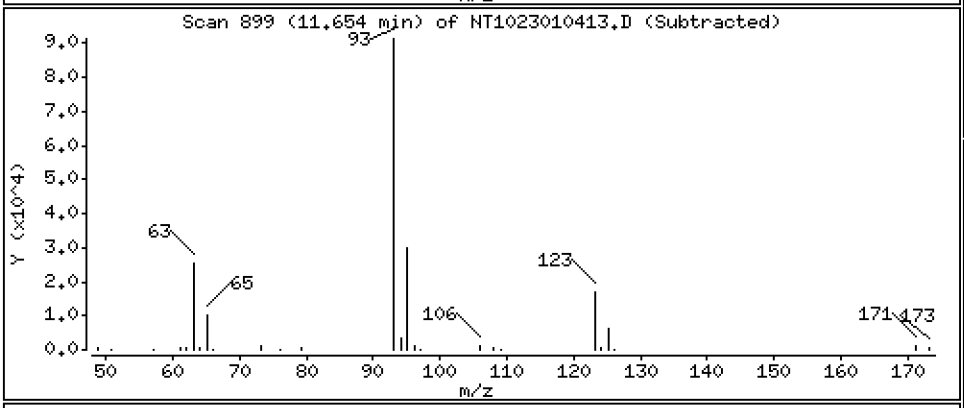
Column phase: ZB-5msi

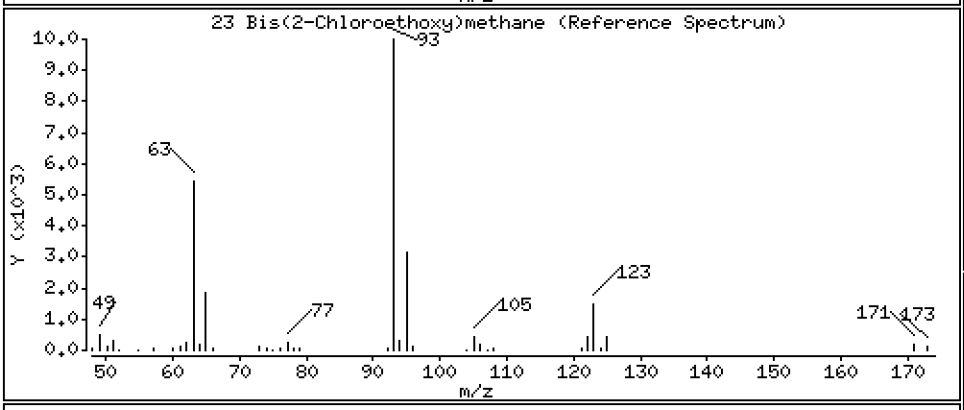
Column diameter: 0.25

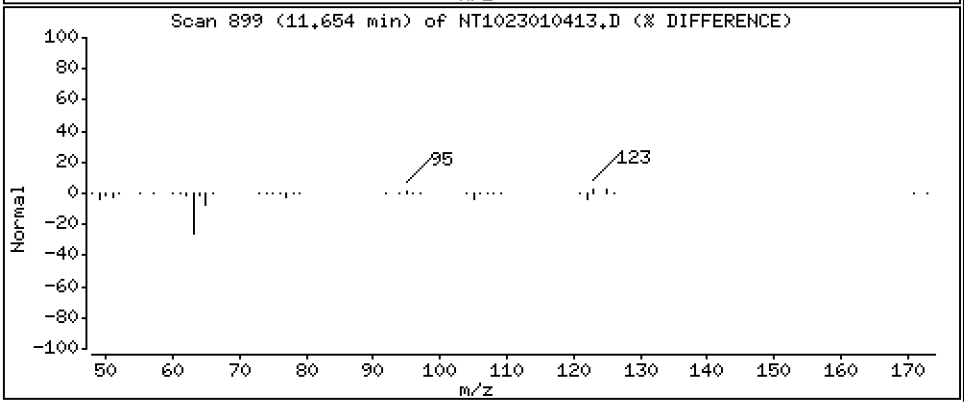
23 Bis(2-Chloroethoxy)methane

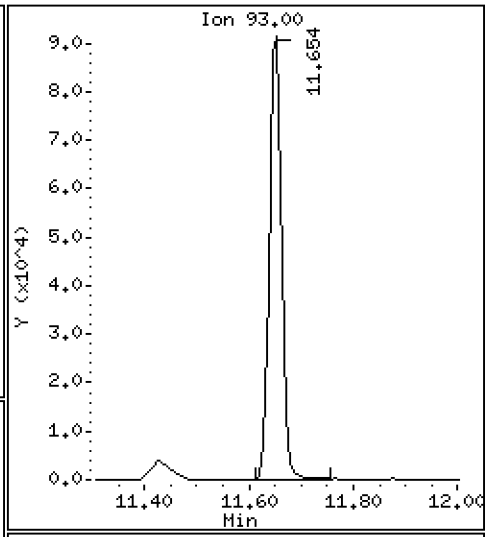
Concentration: 6.332 ug/mL

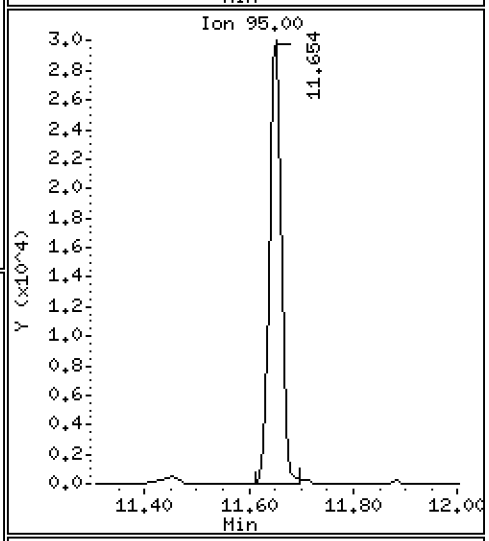


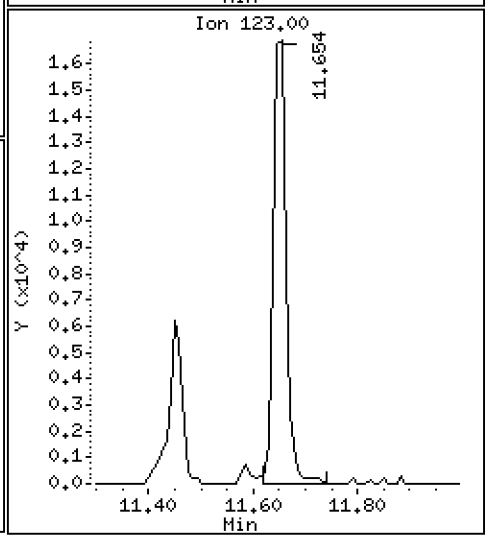












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

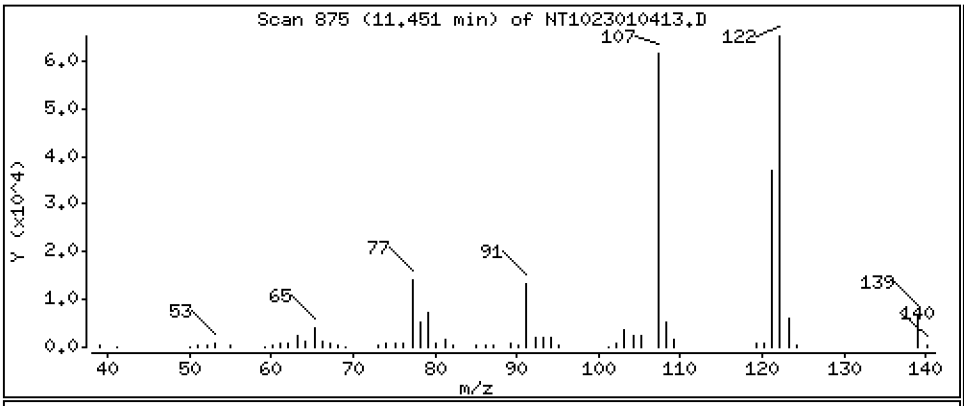
Operator: VTS

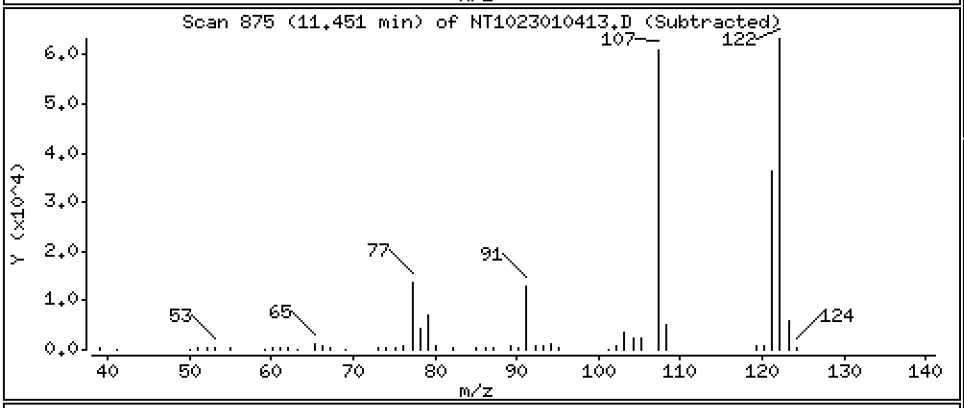
Column phase: ZB-5msi

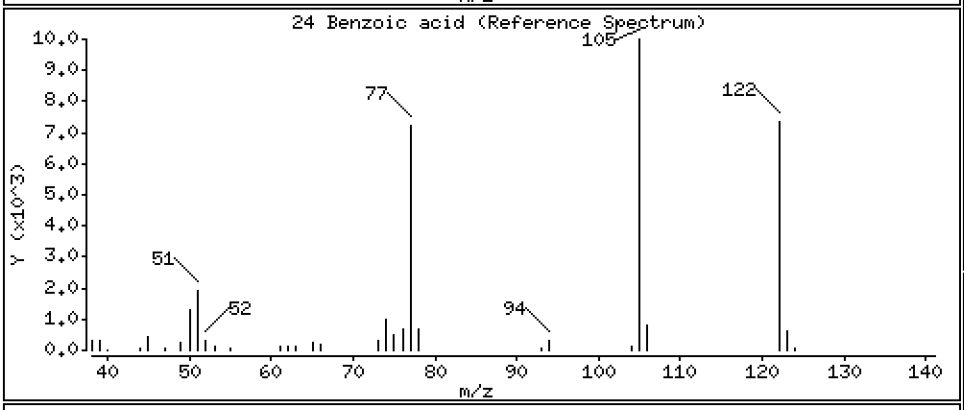
Column diameter: 0.25

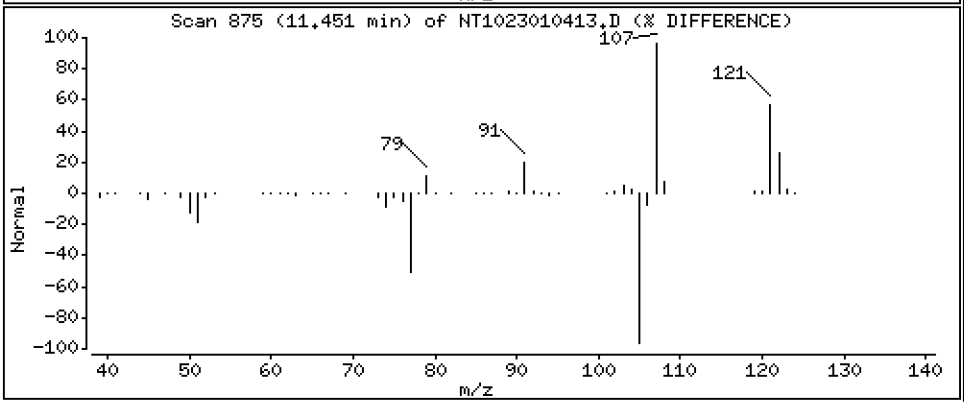
24 Benzoic acid

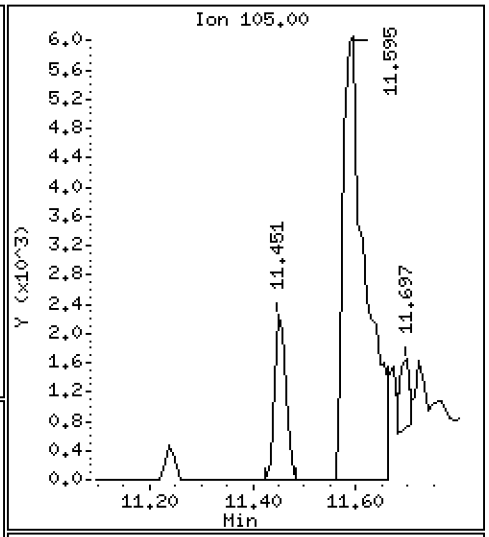
Concentration: 0.3166 ug/mL

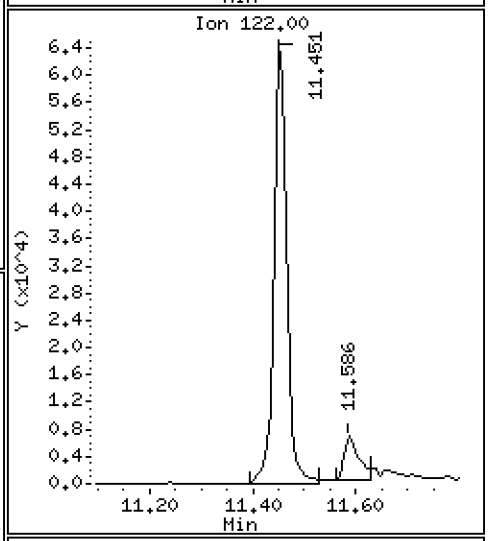


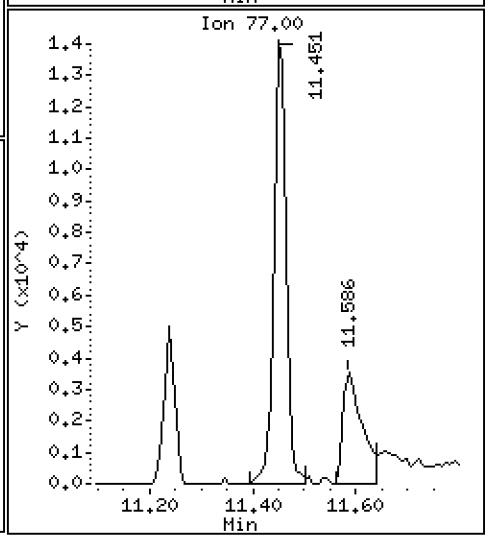












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

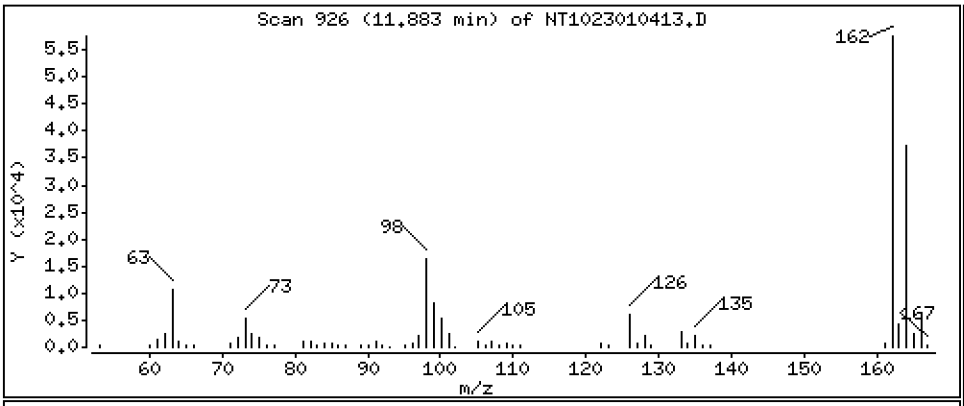
Operator: VTS

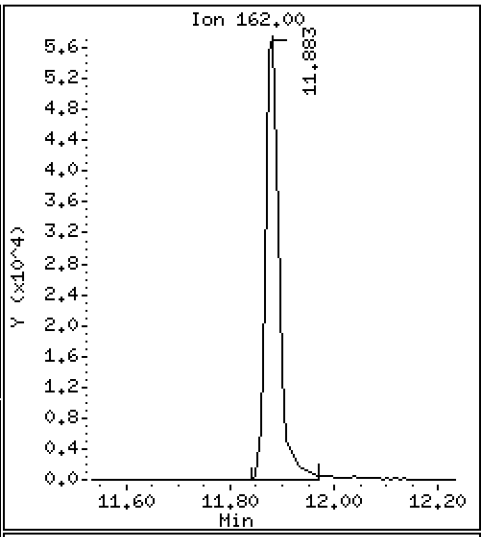
Column phase: ZB-5msi

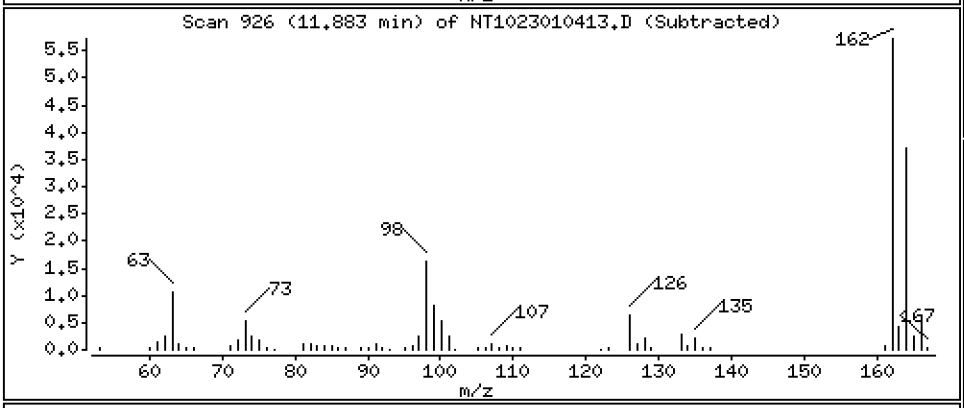
Column diameter: 0.25

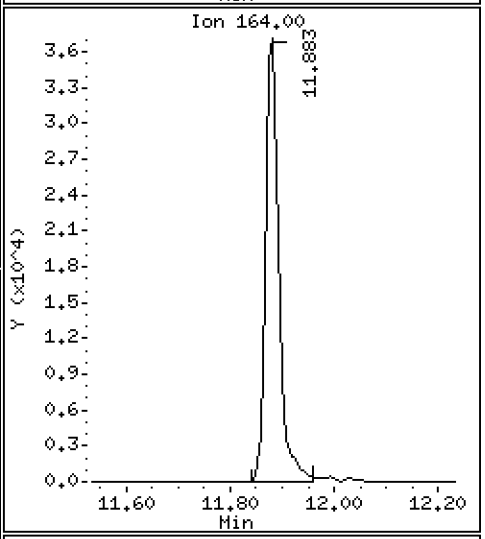
25 2,4-Dichlorophenol

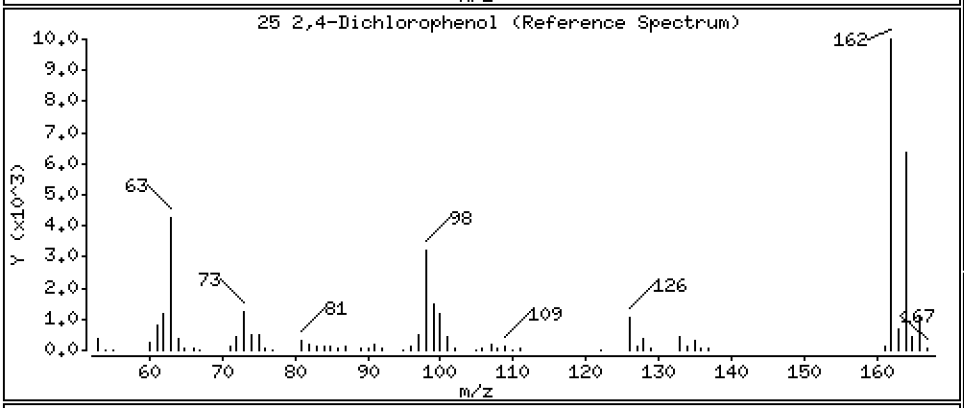
Concentration: 5.098 ug/mL

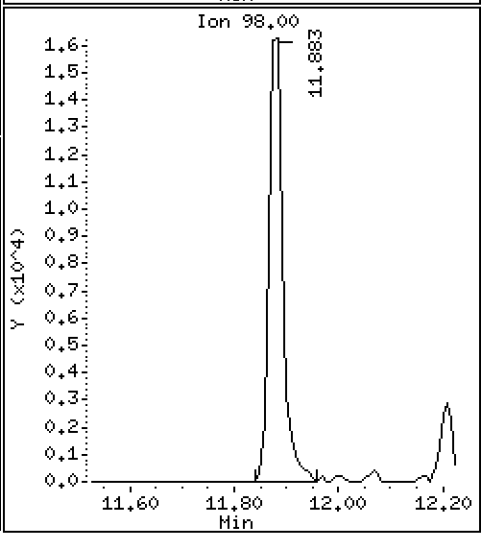


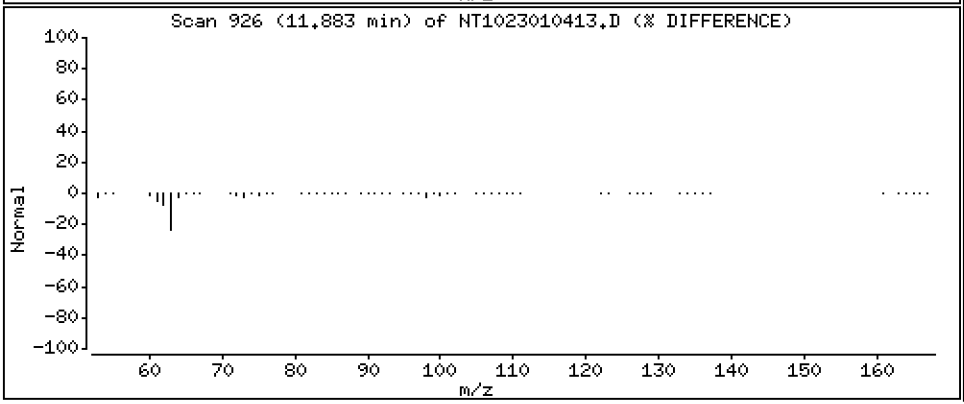












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

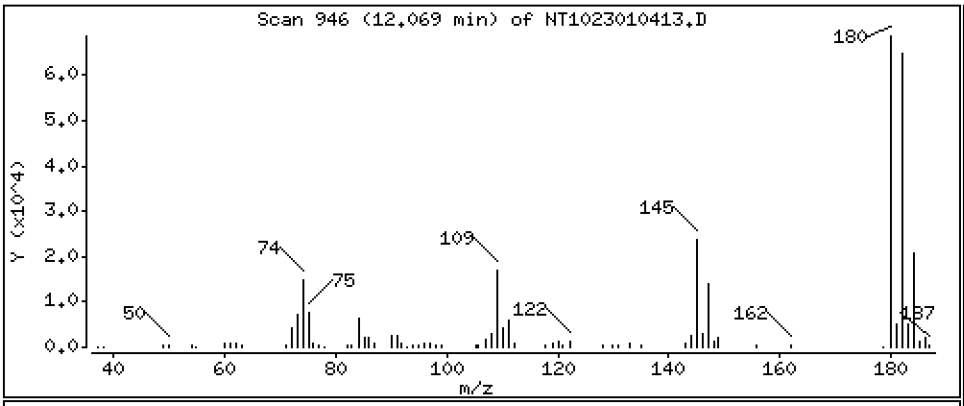
Operator: VTS

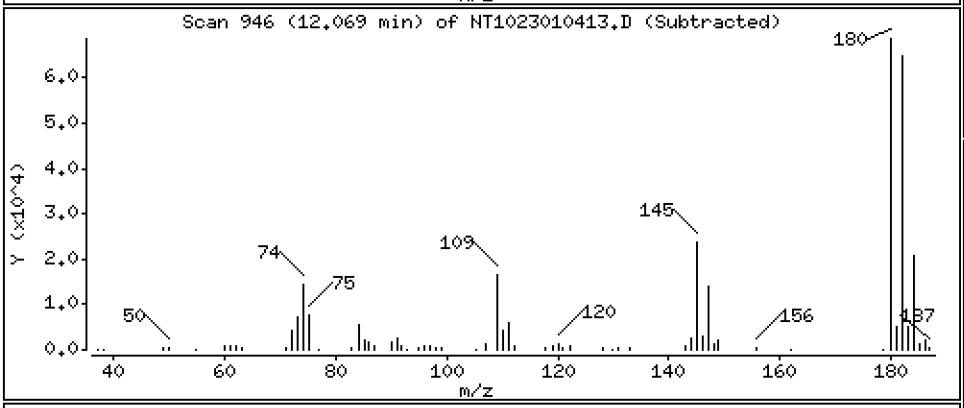
Column phase: ZB-5msi

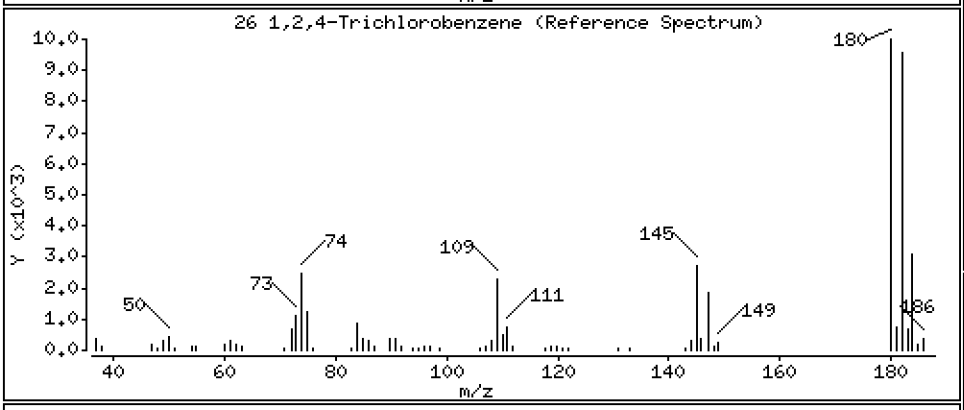
Column diameter: 0.25

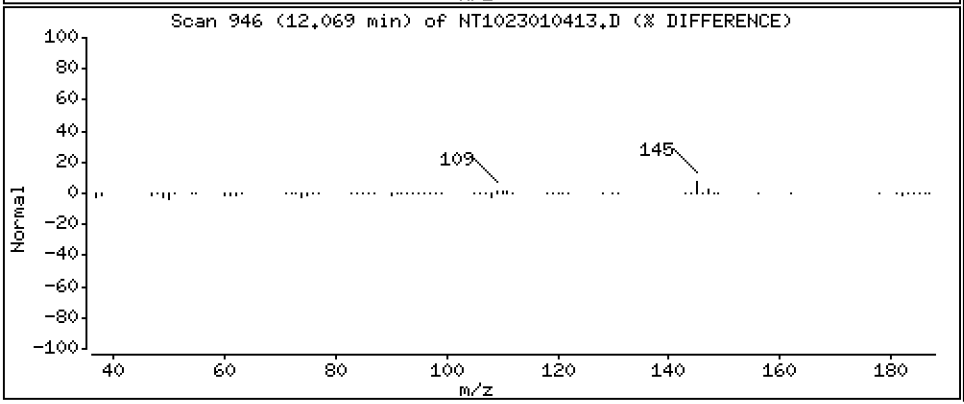
26 1,2,4-Trichlorobenzene

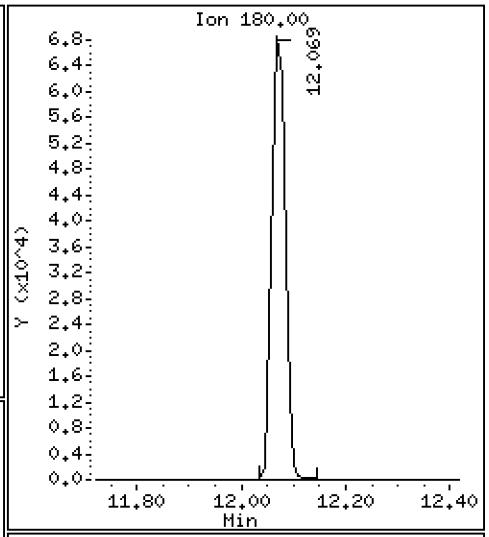
Concentration: 4.520 ug/mL

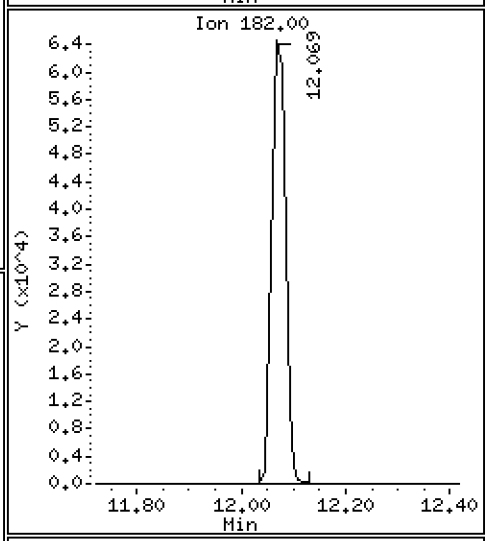


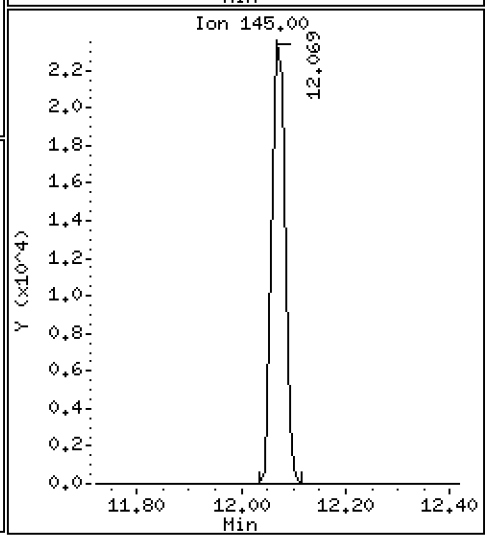












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

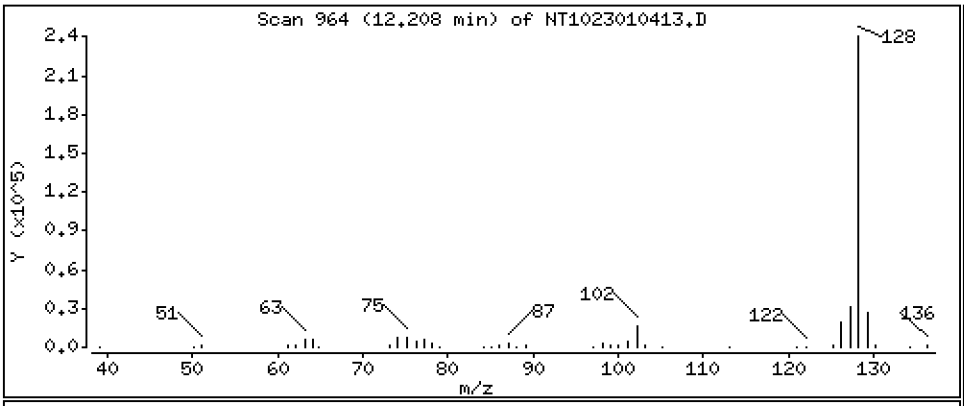
Operator: VTS

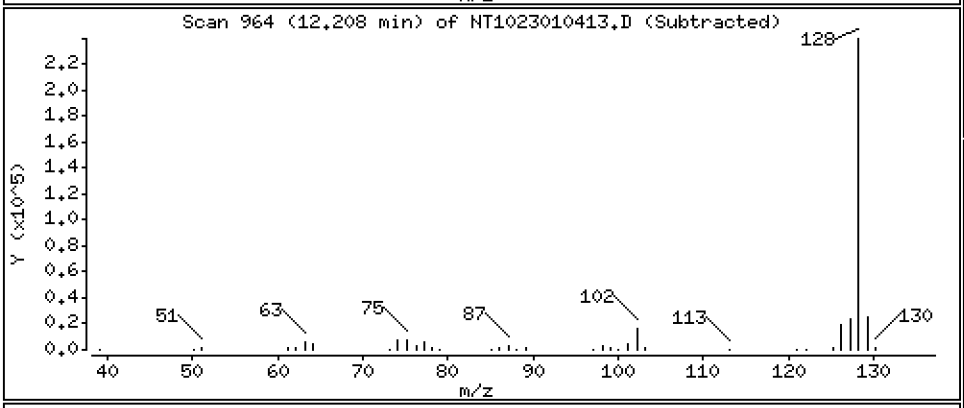
Column phase: ZB-5msi

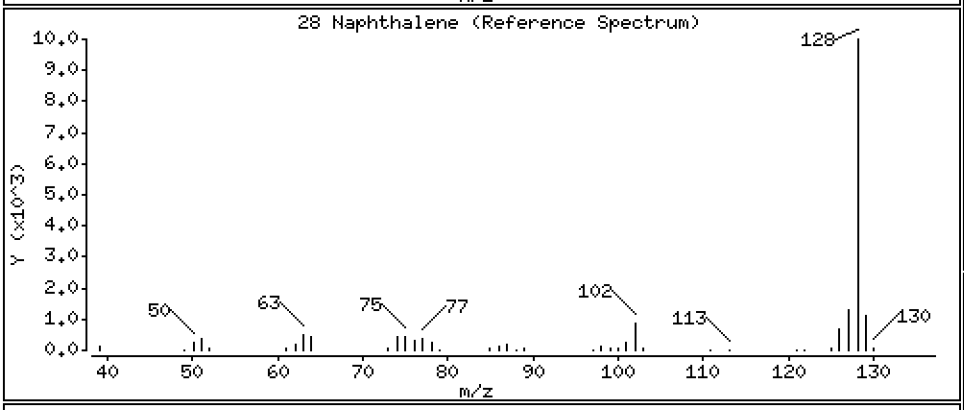
Column diameter: 0.25

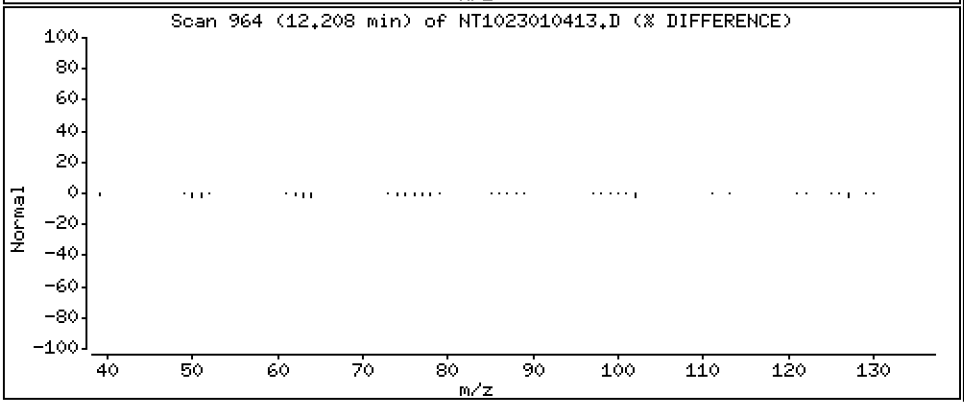
28 Naphthalene

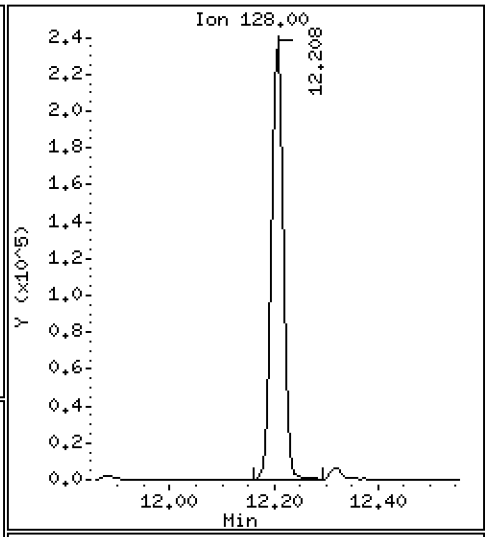
Concentration: 5.156 ug/mL

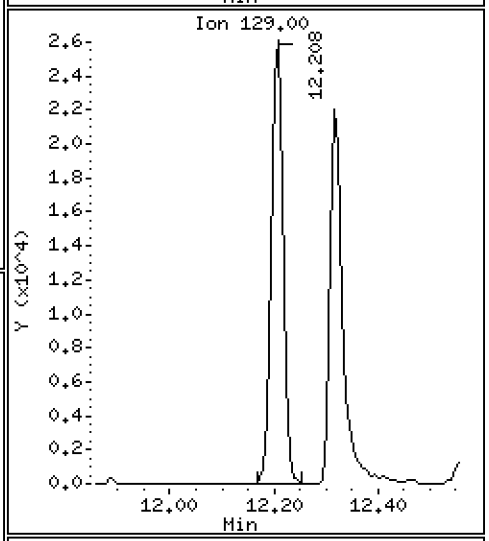


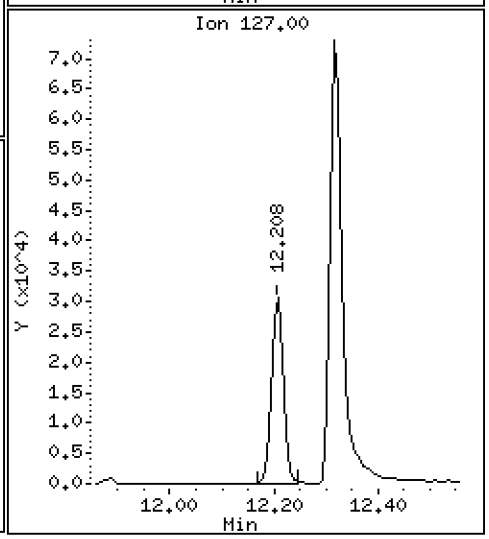












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

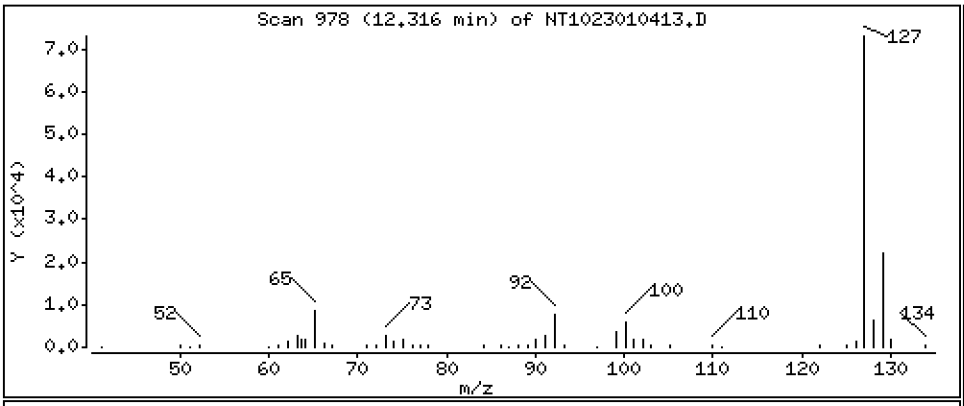
Operator: VTS

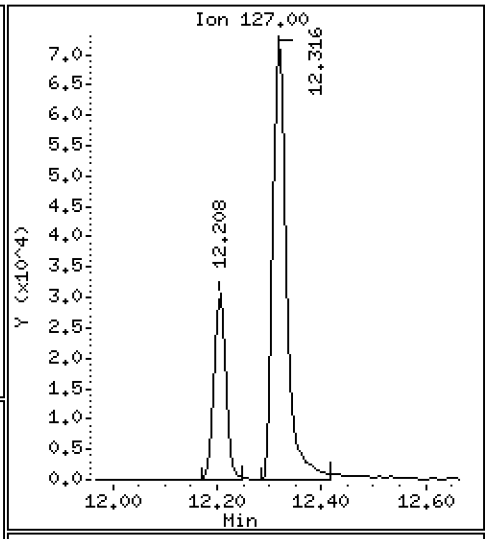
Column phase: ZB-5msi

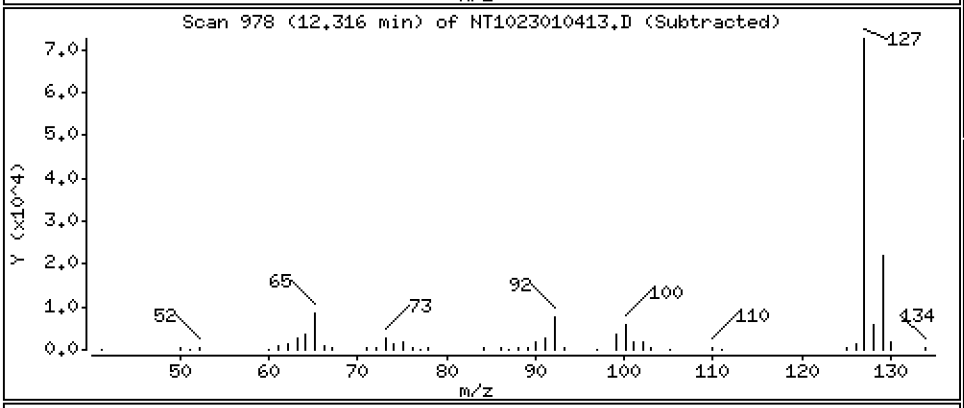
Column diameter: 0.25

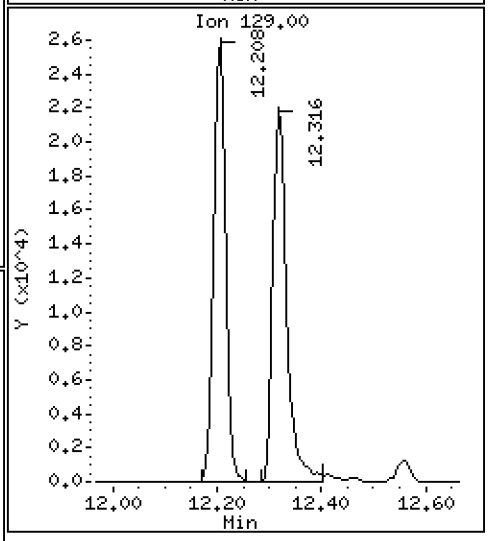
29 4-Chloroaniline

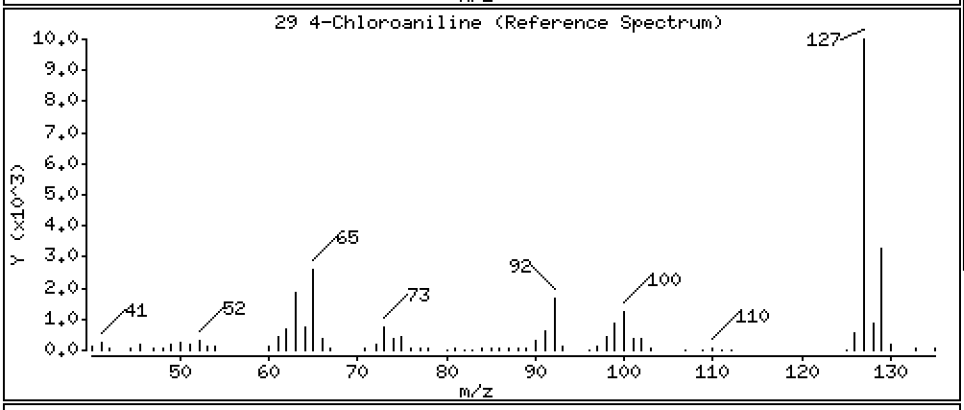
Concentration: 4.197 ug/mL

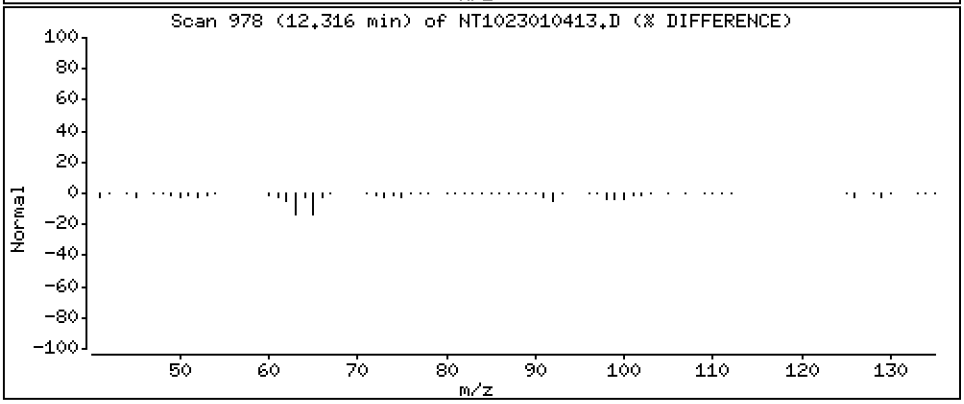












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

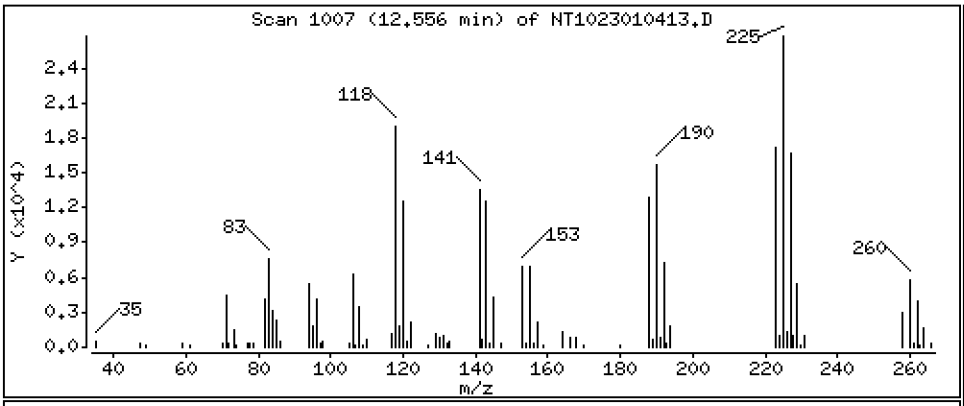
Operator: VTS

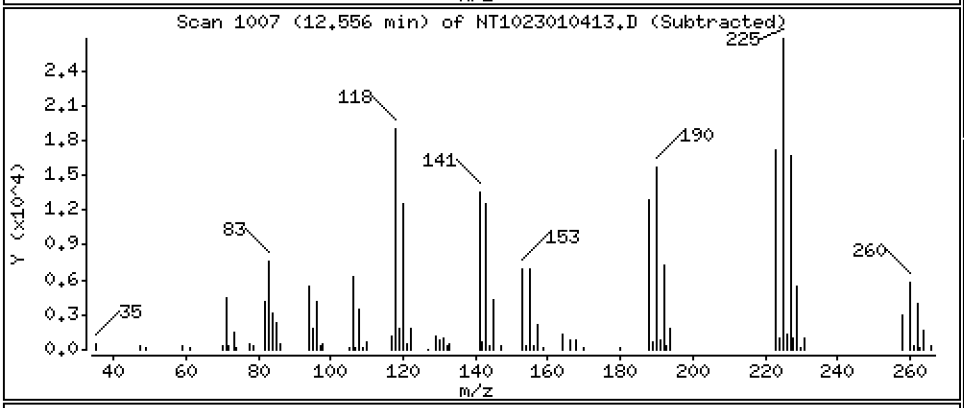
Column phase: ZB-5msi

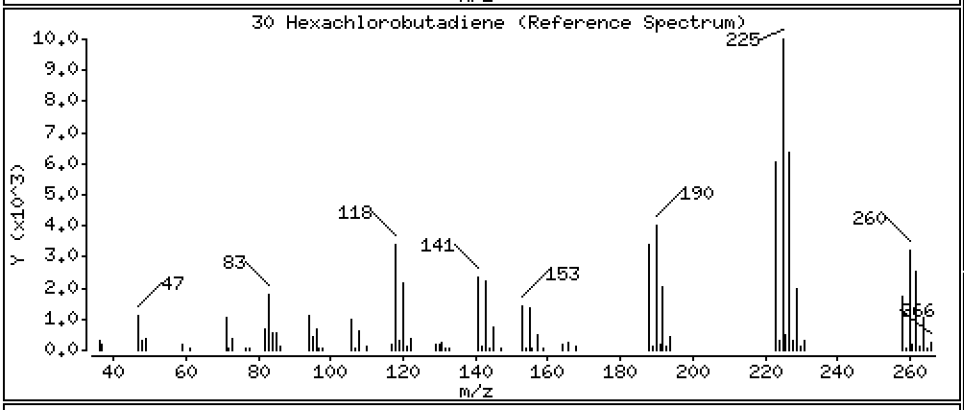
Column diameter: 0.25

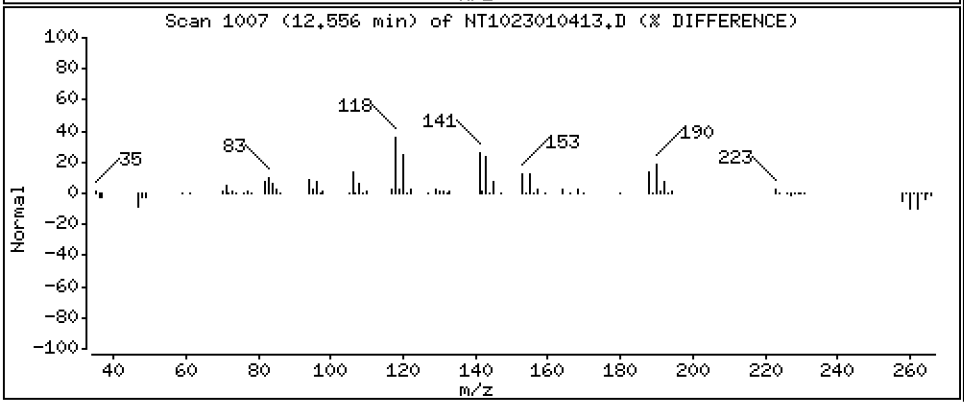
30 Hexachlorobutadiene

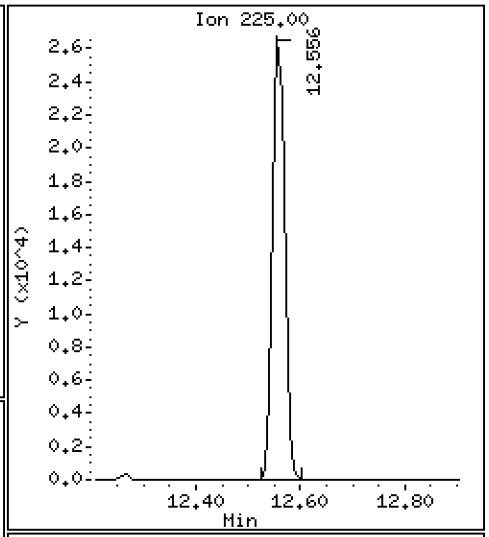
Concentration: 4.884 ug/mL

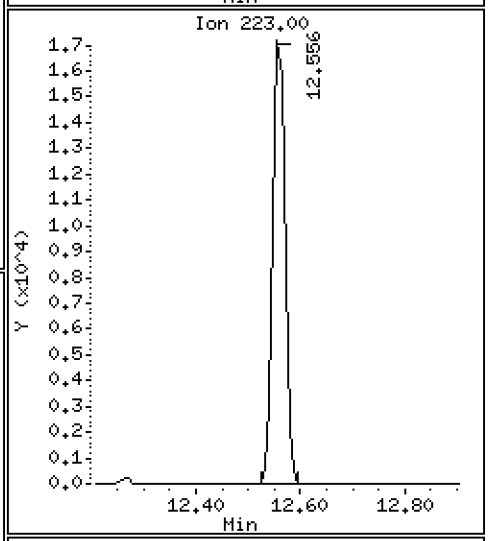


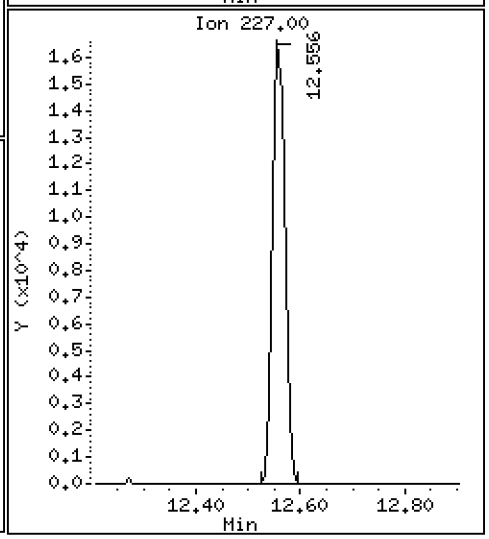












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

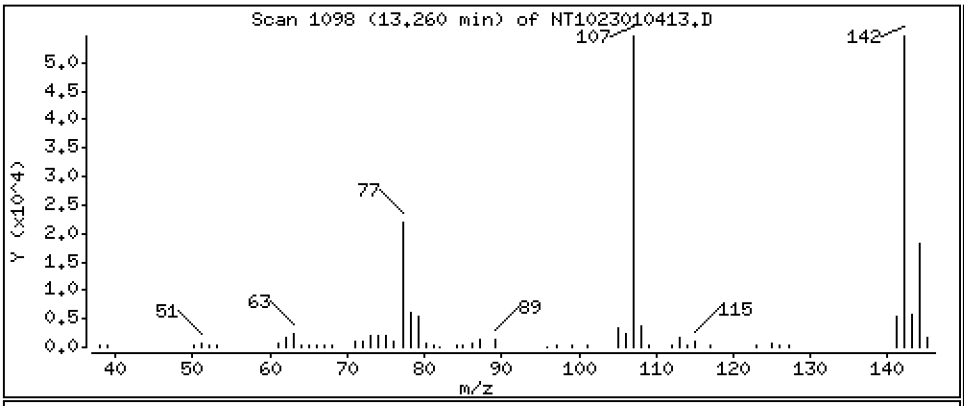
Operator: VTS

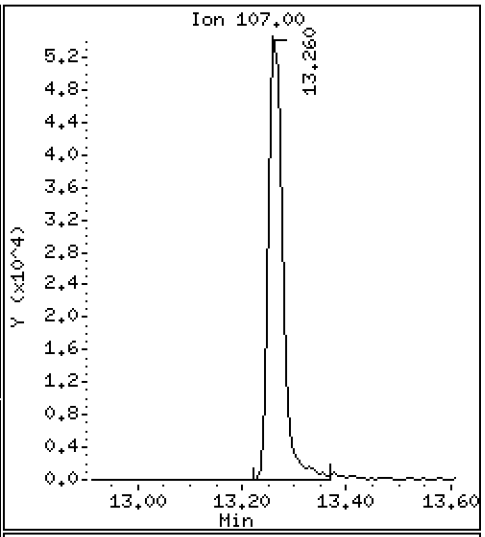
Column phase: ZB-5msi

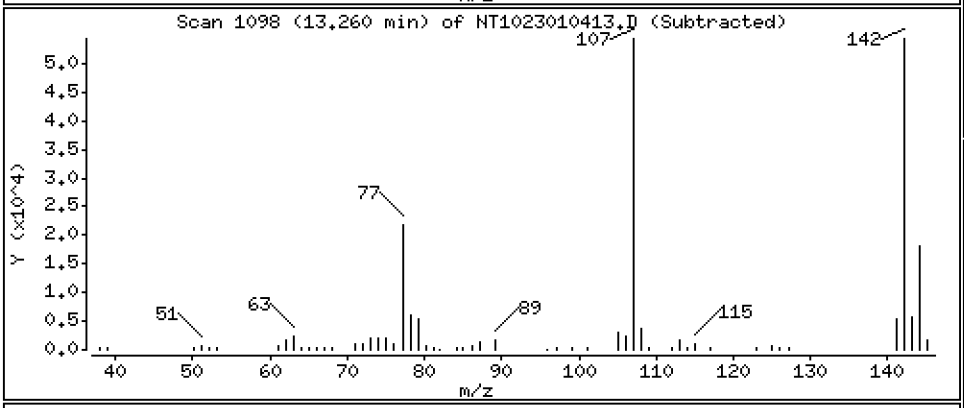
Column diameter: 0.25

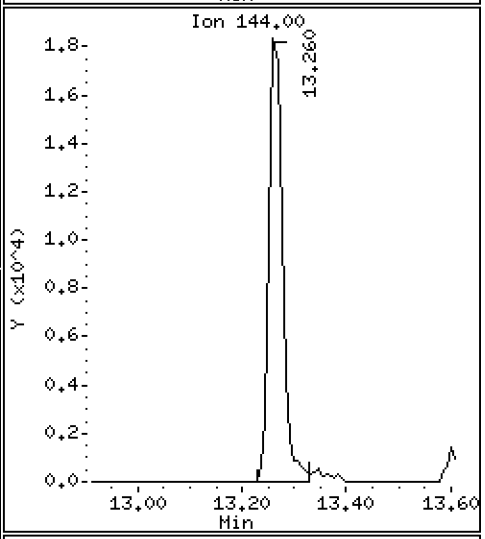
31 4-Chloro-3-methylphenol

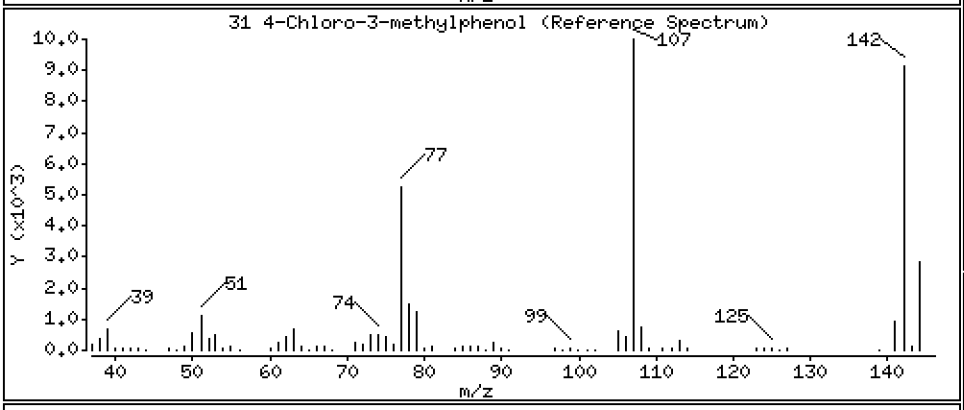
Concentration: 4.515 ug/mL

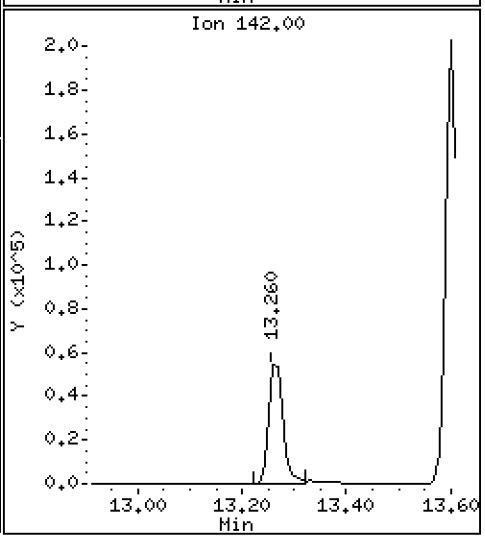


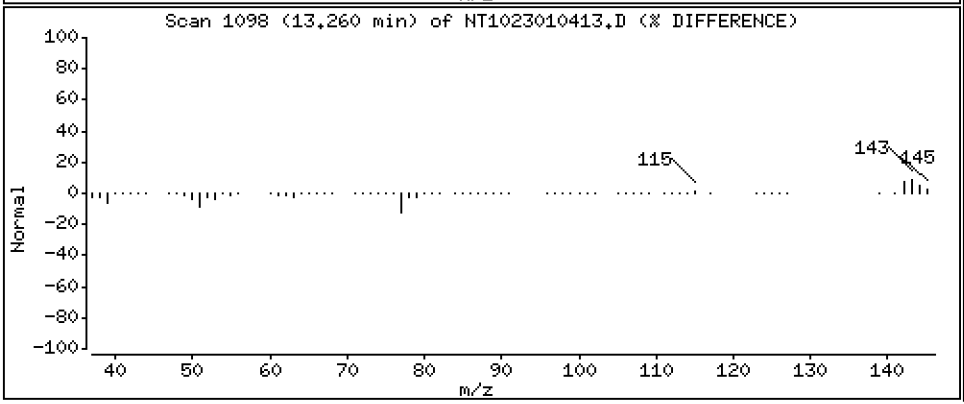












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

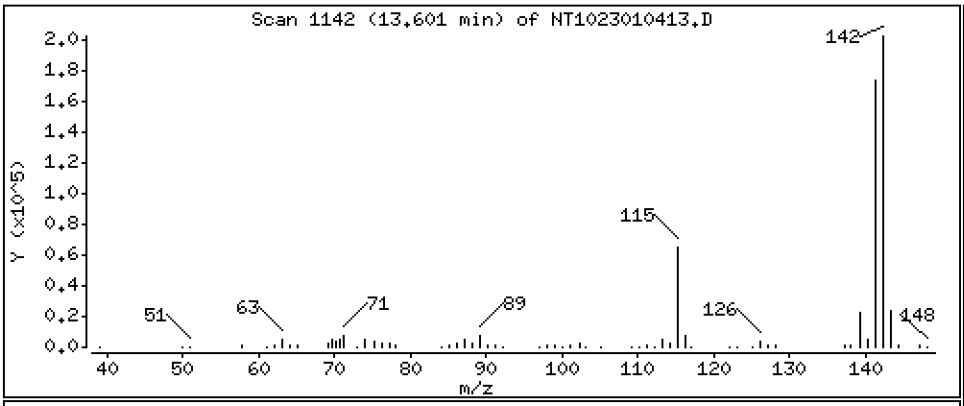
Operator: VTS

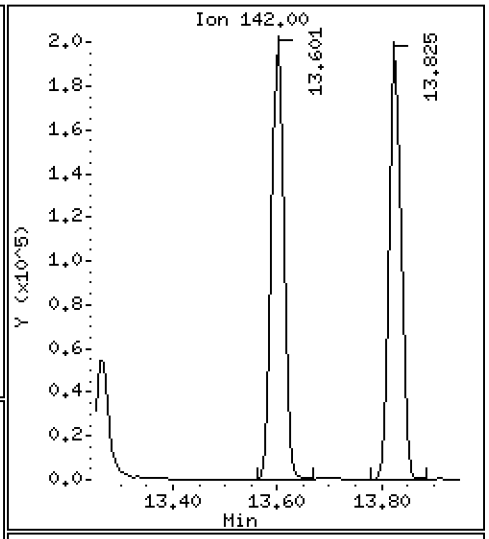
Column phase: ZB-5msi

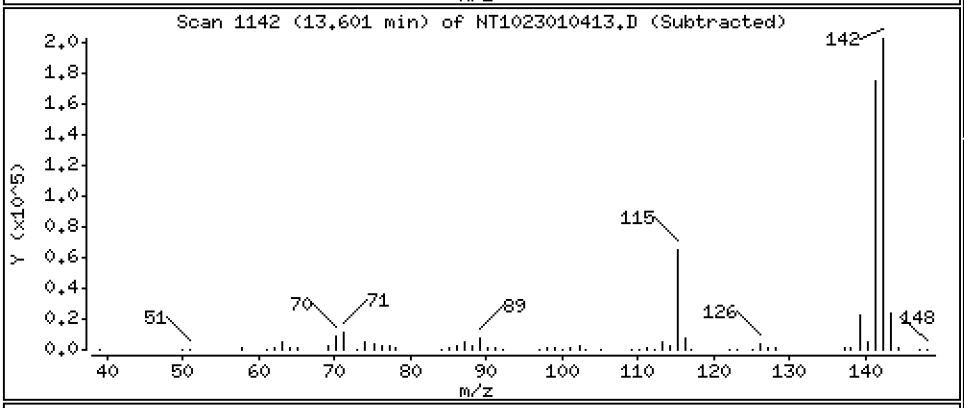
Column diameter: 0.25

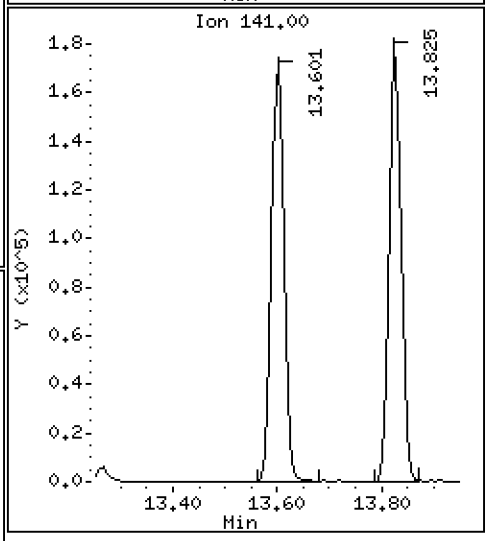
32 2-Methylnaphthalene

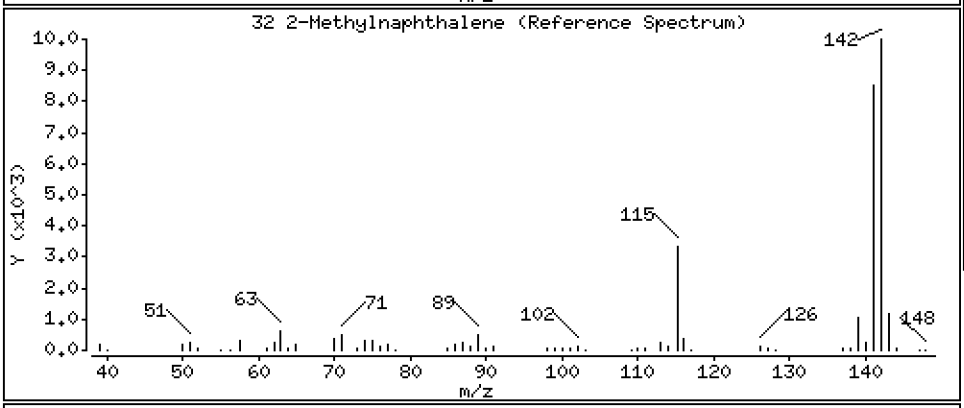
Concentration: 5.163 ug/mL

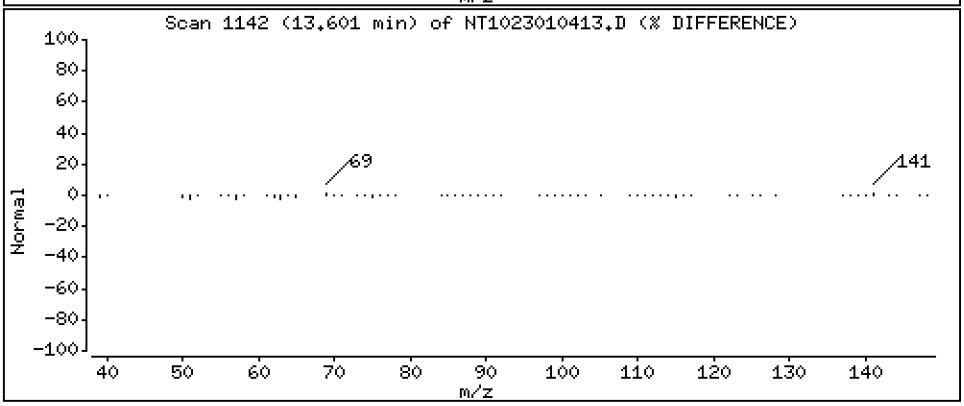












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

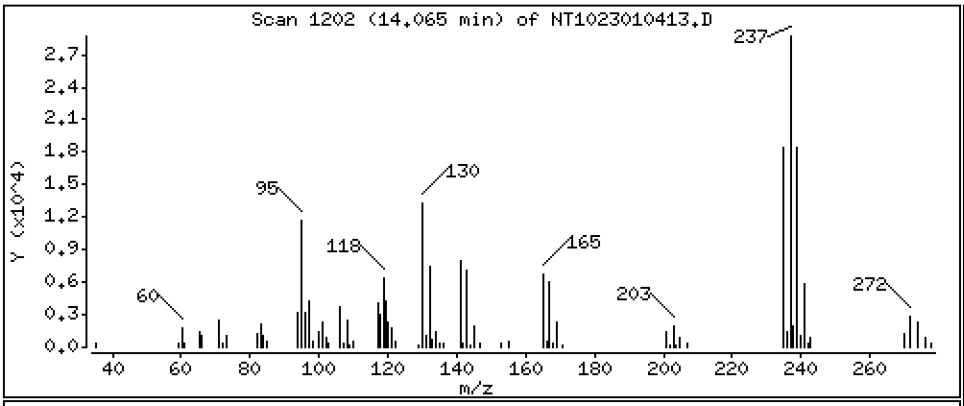
Operator: VTS

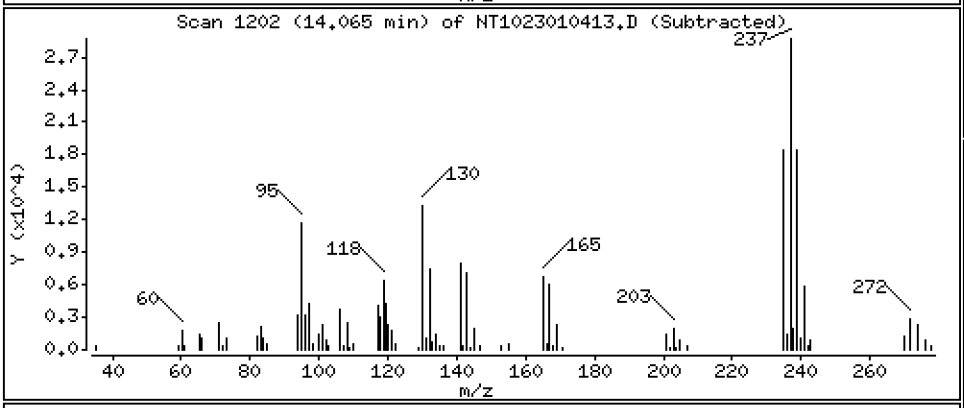
Column phase: ZB-5msi

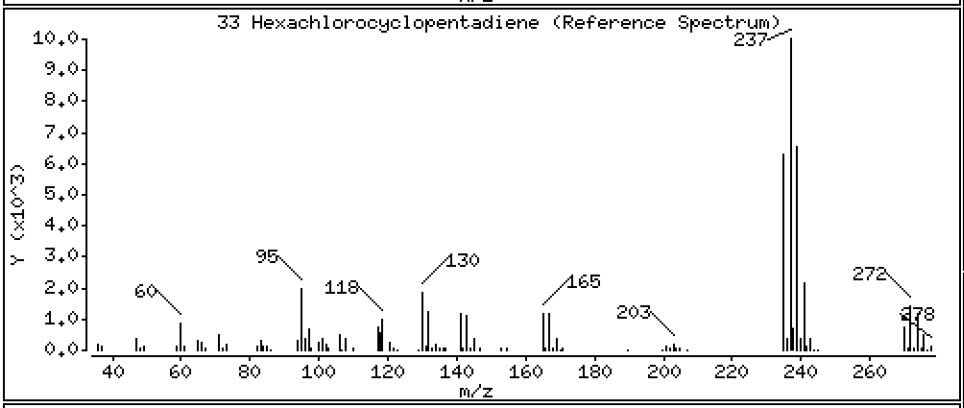
Column diameter: 0.25

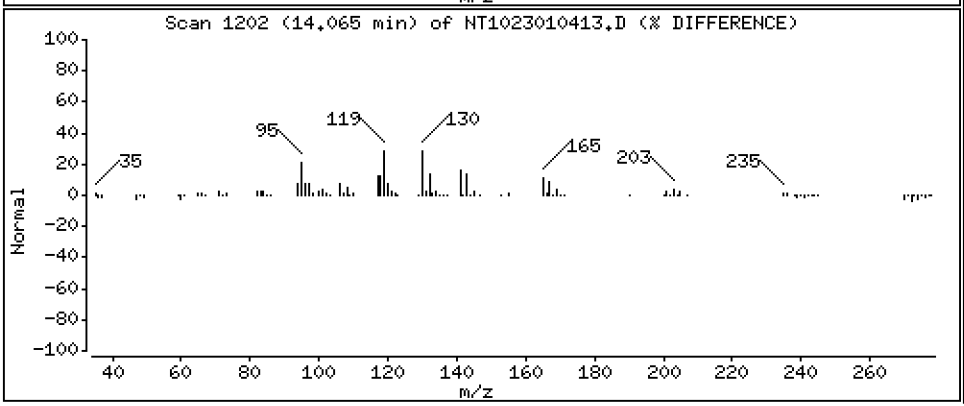
33 Hexachlorocyclopentadiene

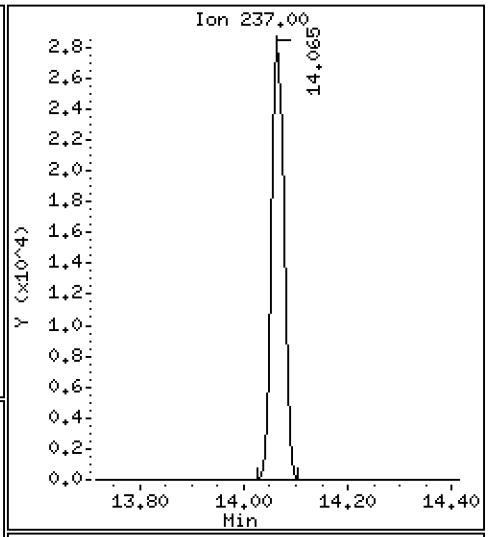
Concentration: 5.178 ug/mL

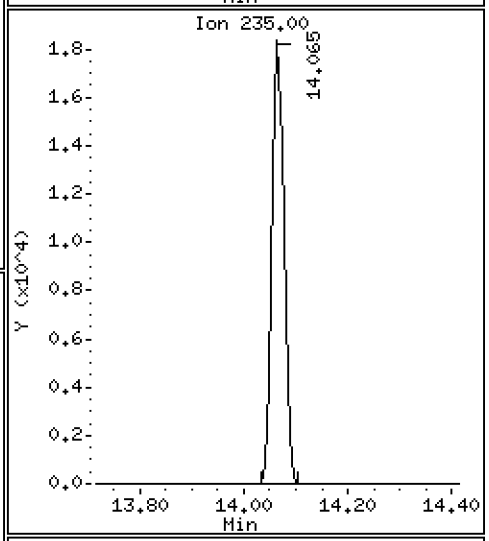


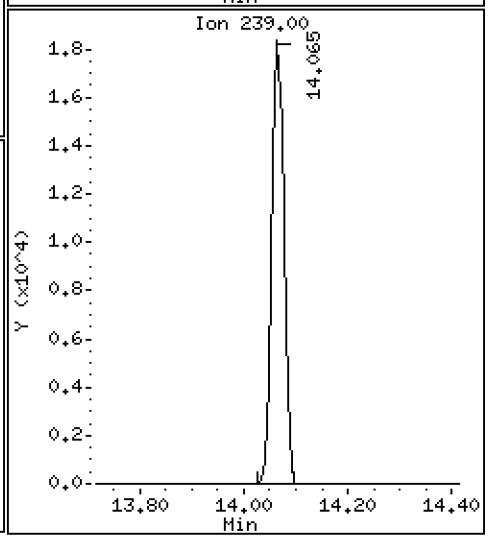












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

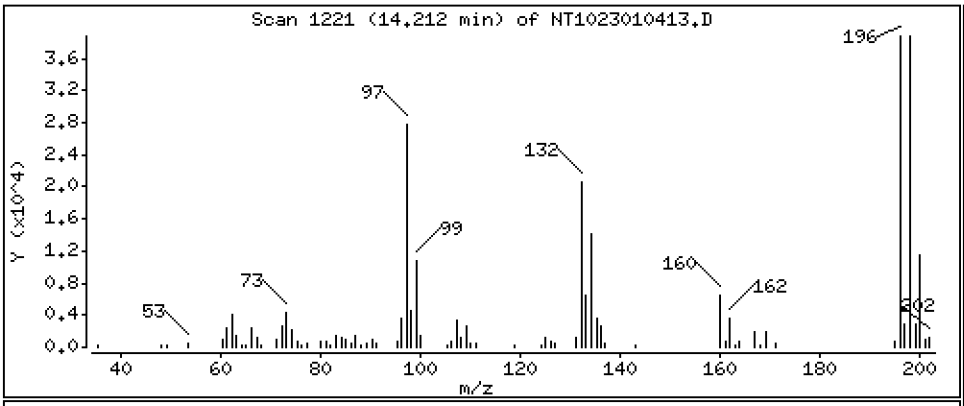
Operator: VTS

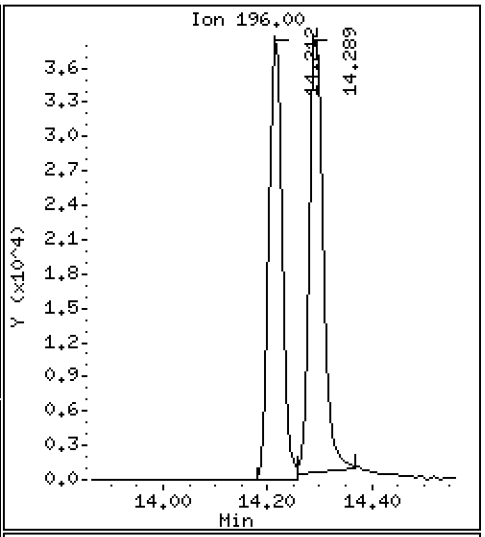
Column phase: ZB-5msi

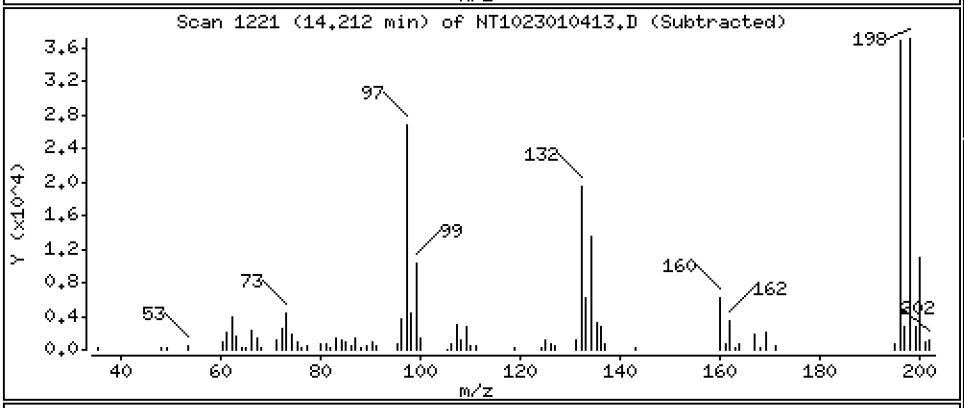
Column diameter: 0.25

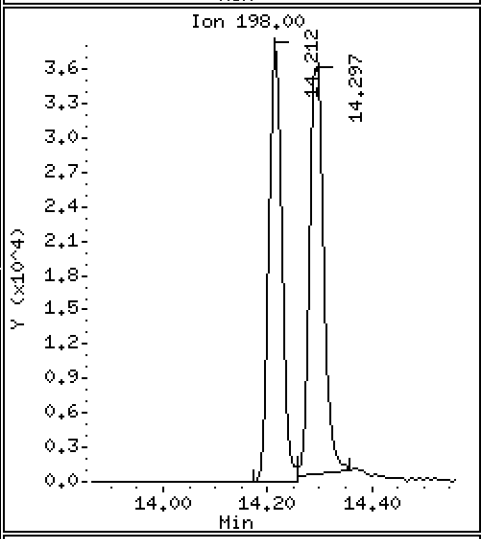
34 2,4,6-Trichlorophenol

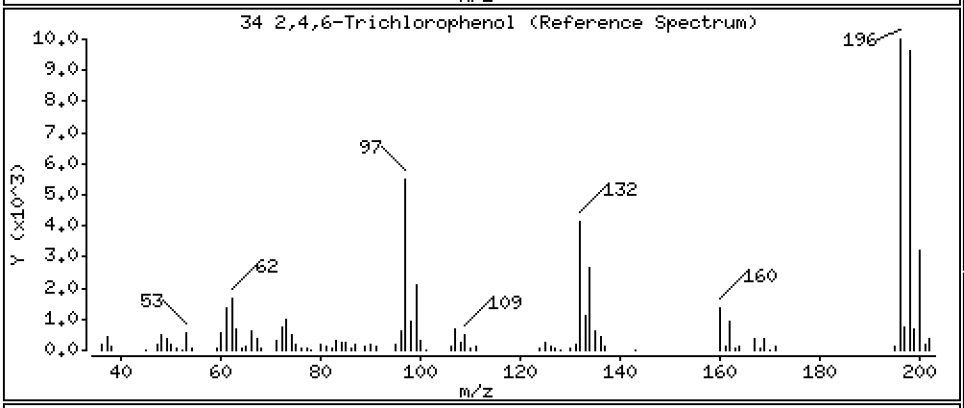
Concentration: 4.948 ug/mL

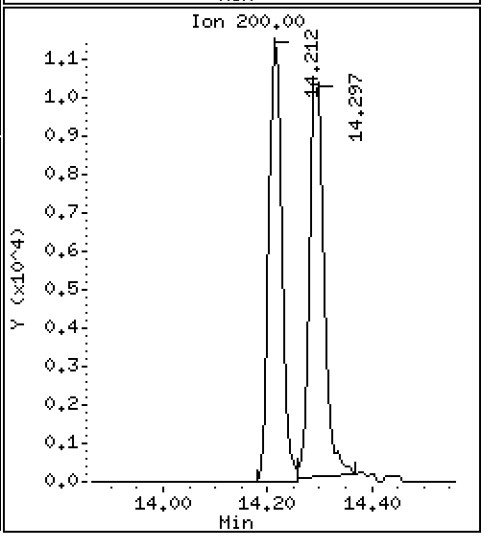


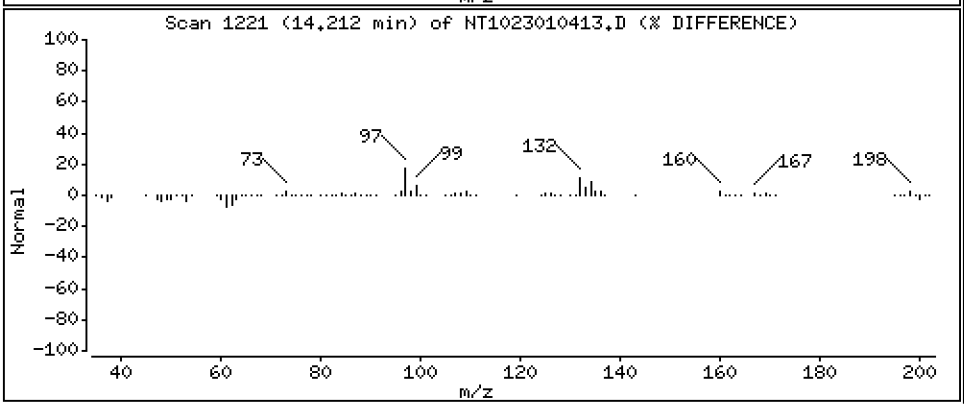












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

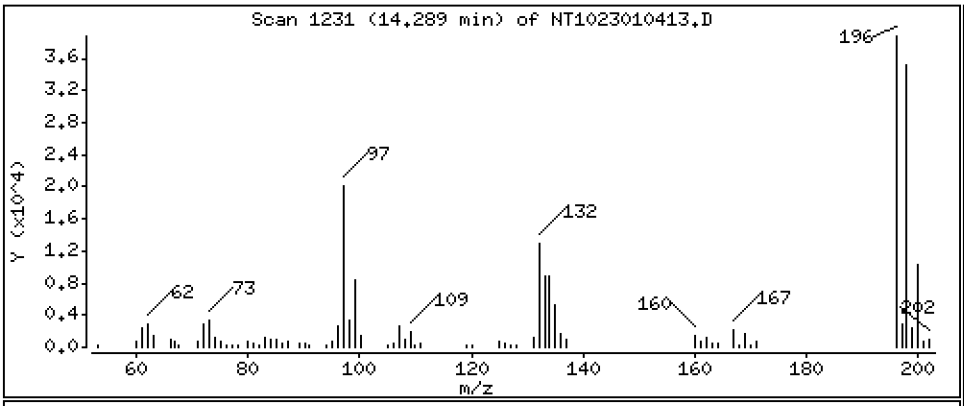
Operator: VTS

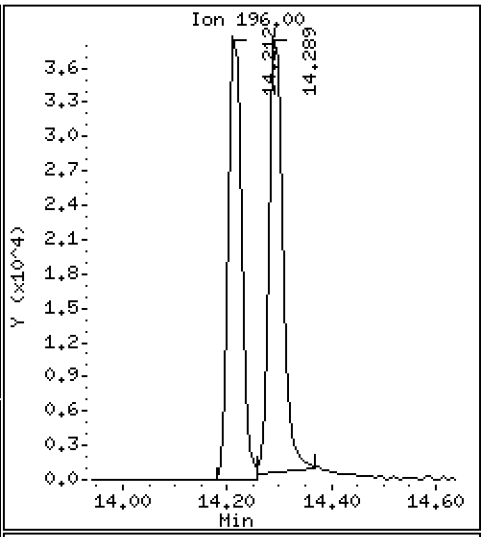
Column phase: ZB-5msi

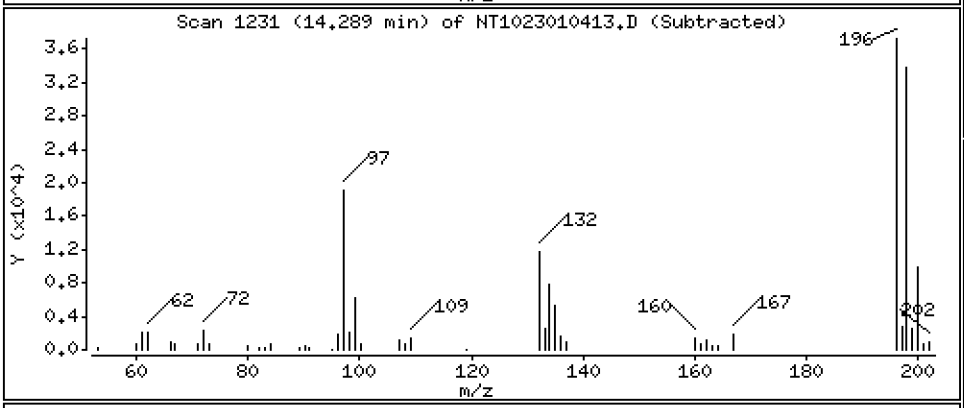
Column diameter: 0.25

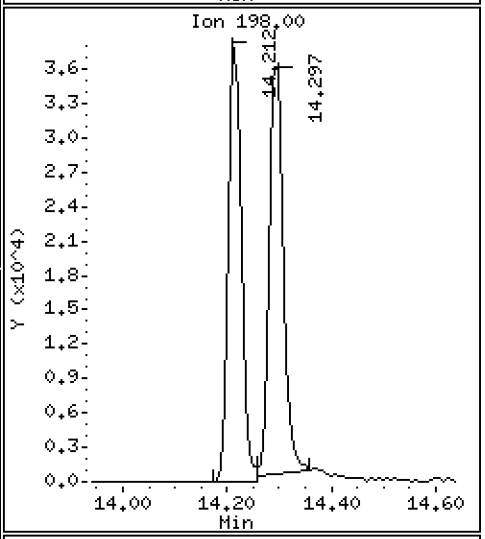
35 2,4,5-Trichlorophenol

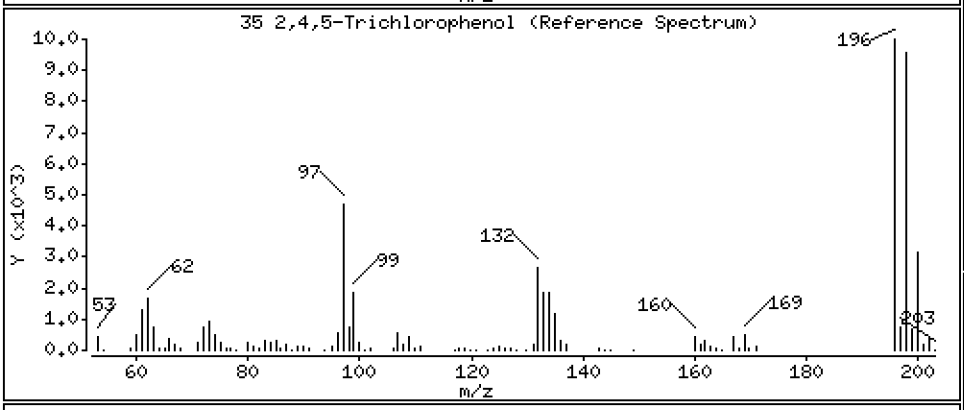
Concentration: 4.607 ug/mL

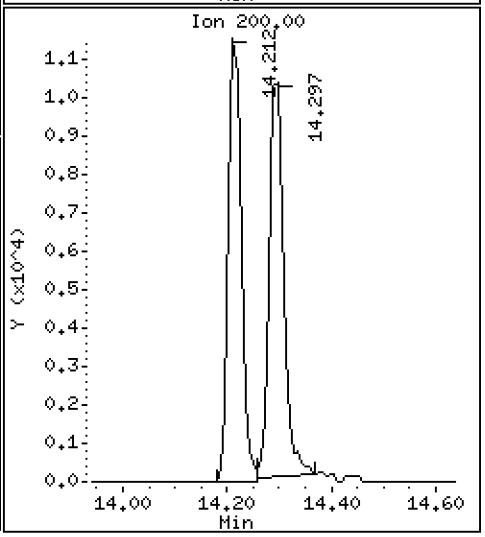


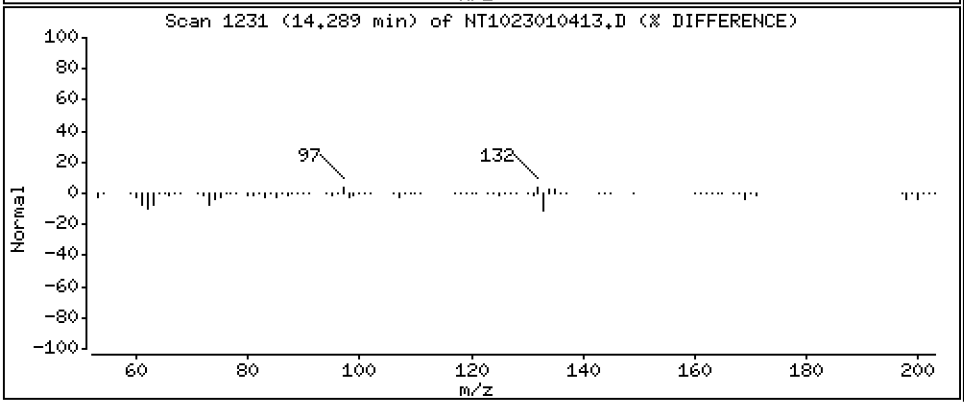












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

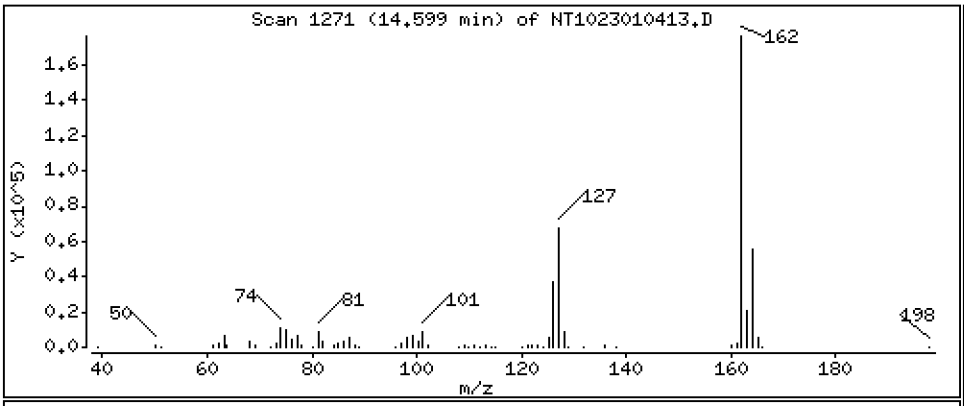
Operator: VTS

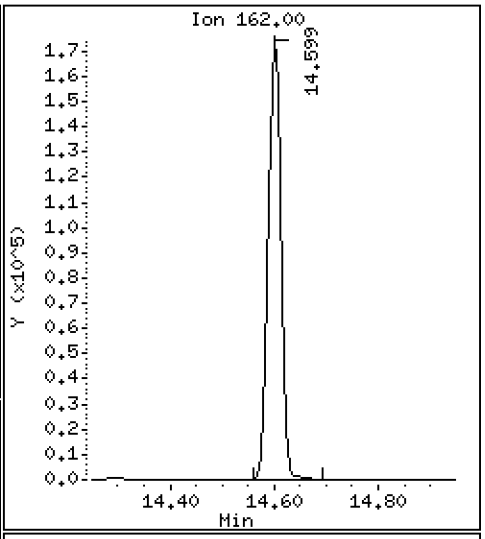
Column phase: ZB-5msi

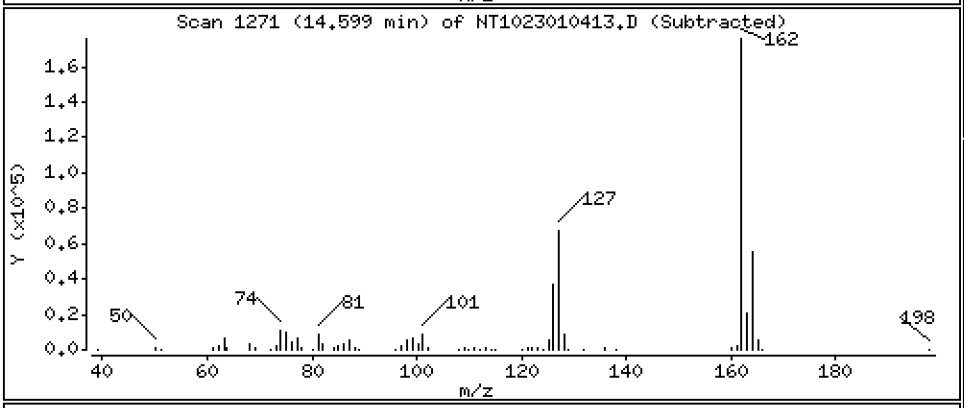
Column diameter: 0.25

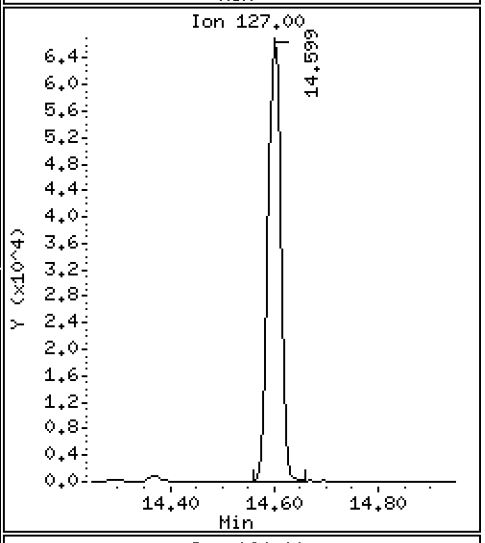
37 2-Chloronaphthalene

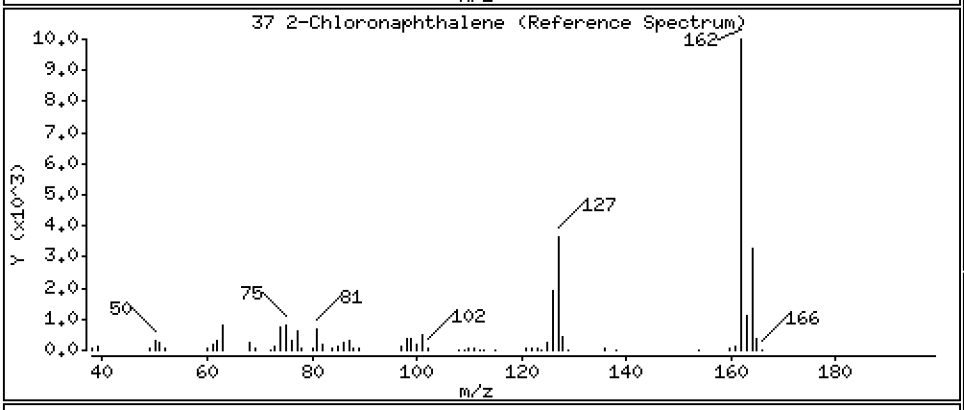
Concentration: 5.379 ug/mL

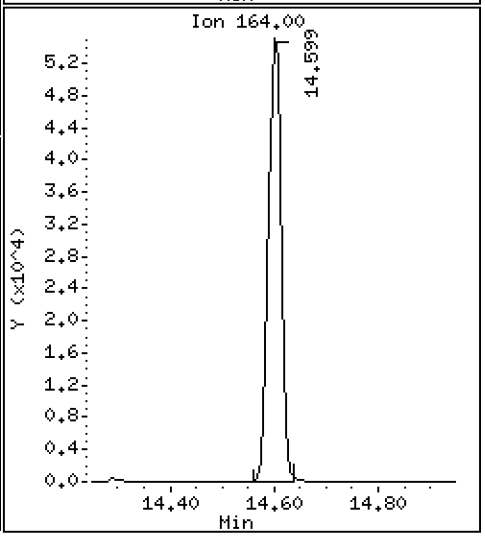


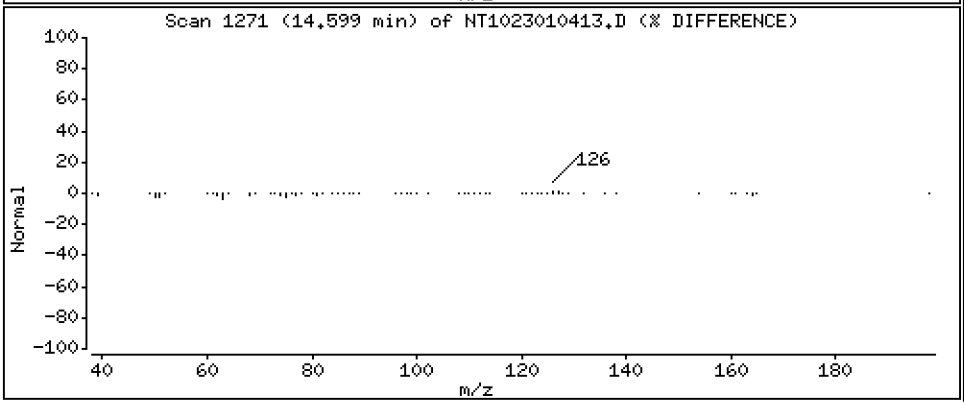












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

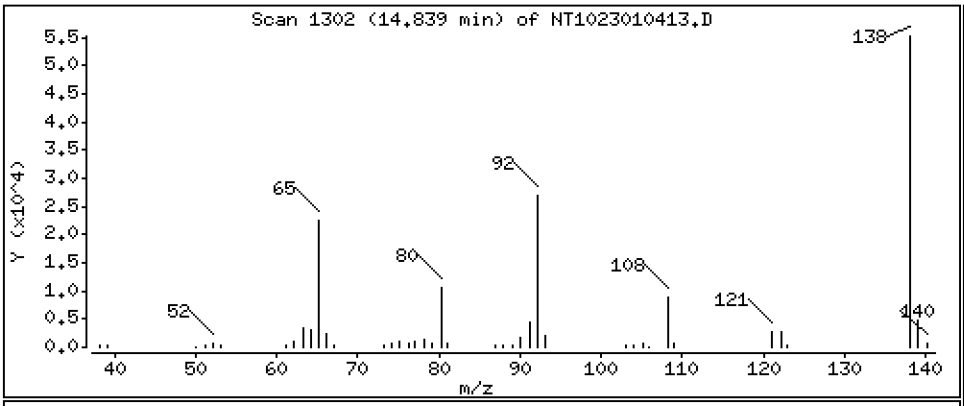
Operator: VTS

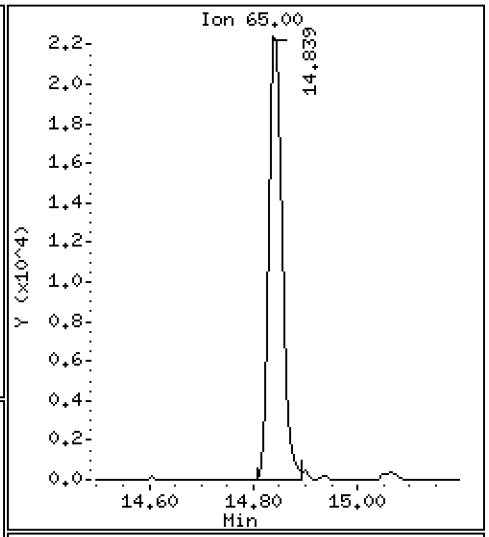
Column phase: ZB-5msi

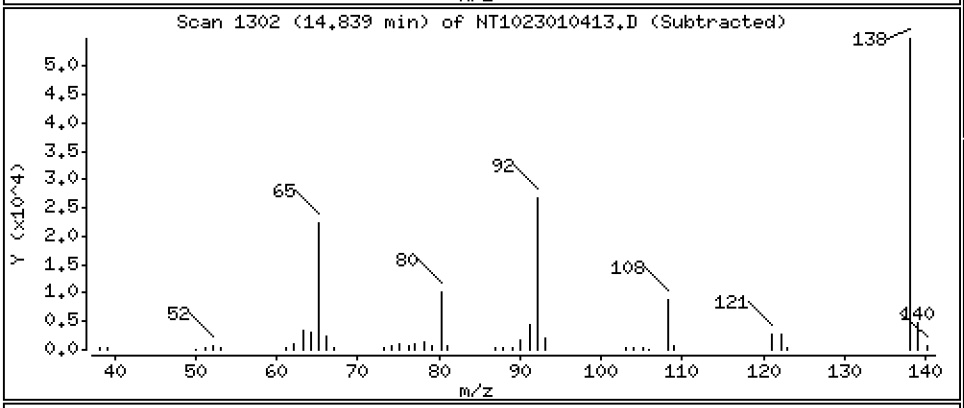
Column diameter: 0.25

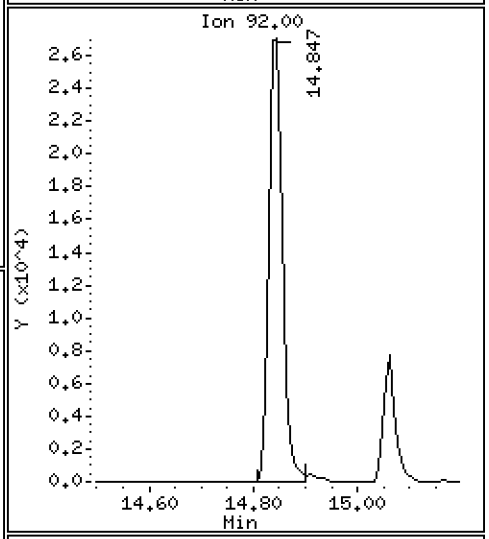
38 2-Nitroaniline

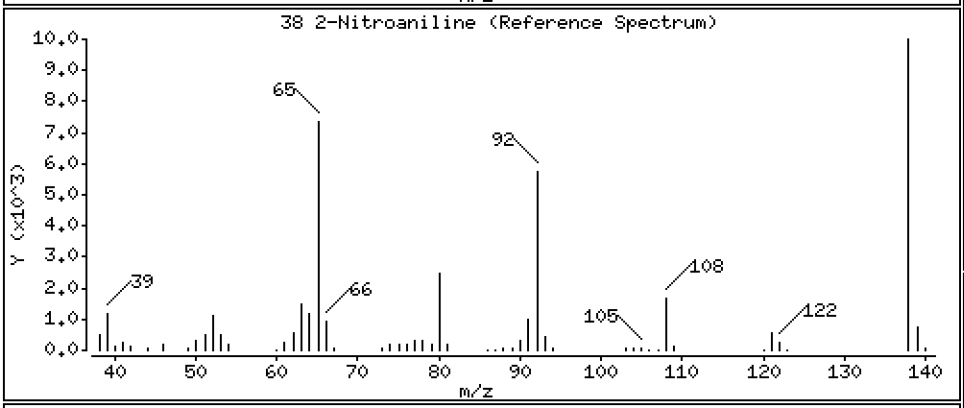
Concentration: 5.391 ug/mL

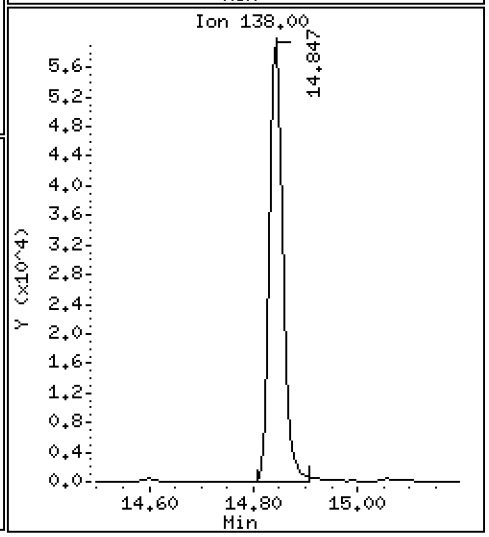


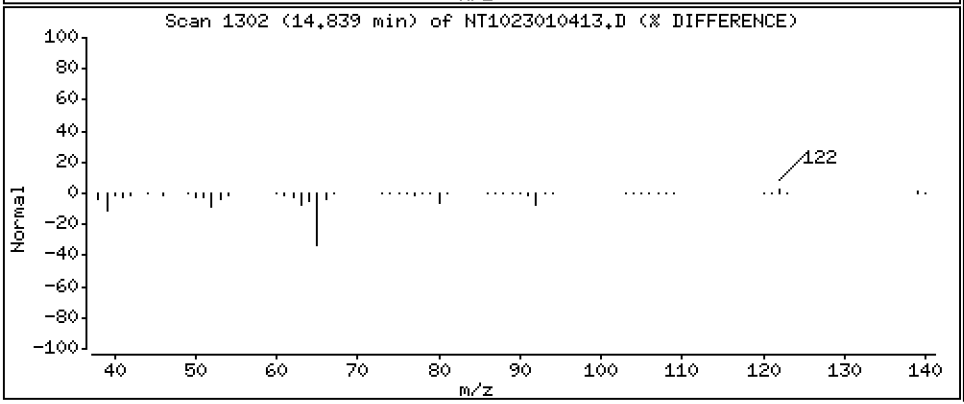












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

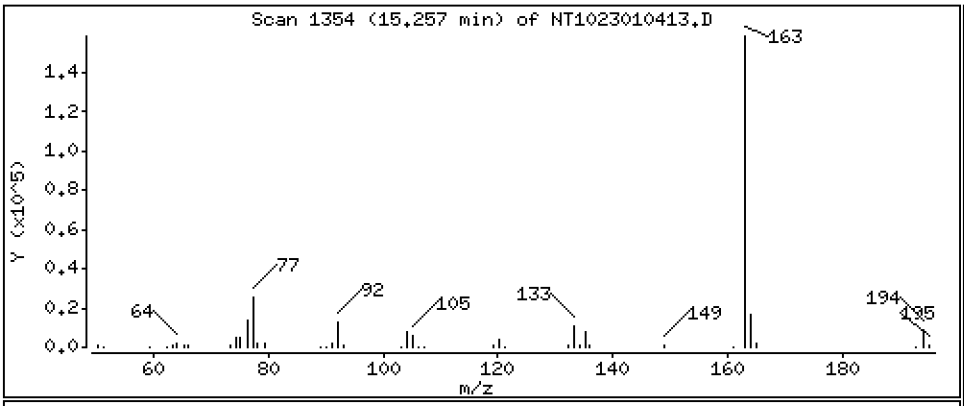
Operator: VTS

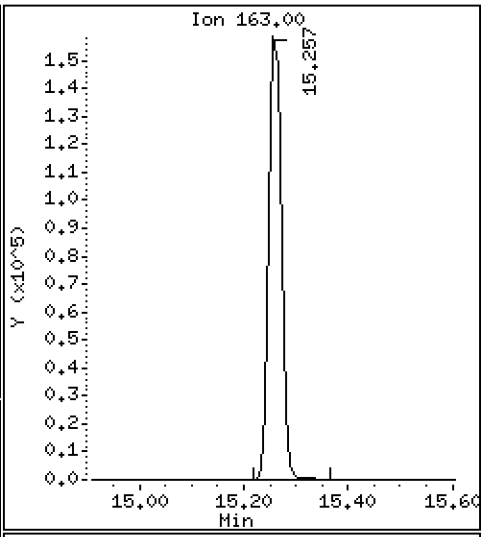
Column phase: ZB-5msi

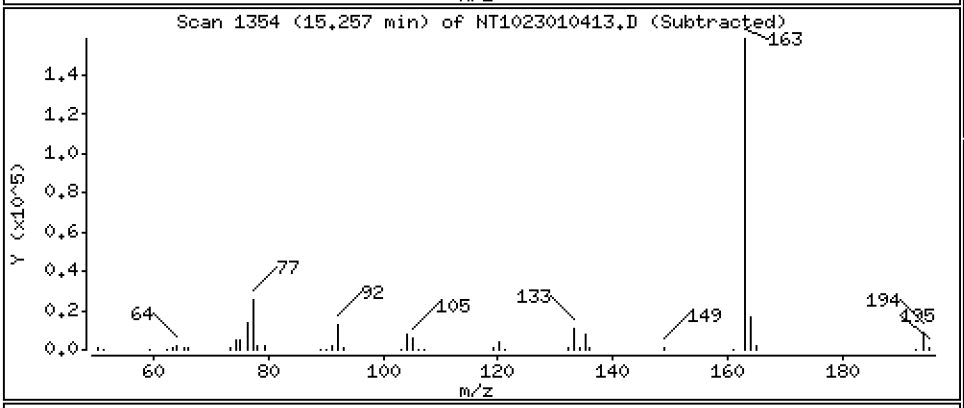
Column diameter: 0.25

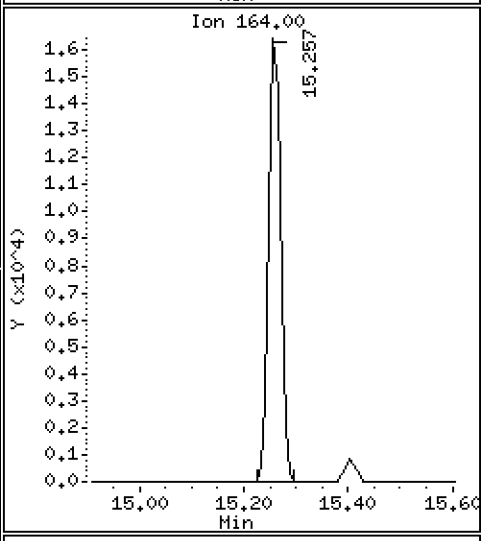
39 Dimethylphthalate

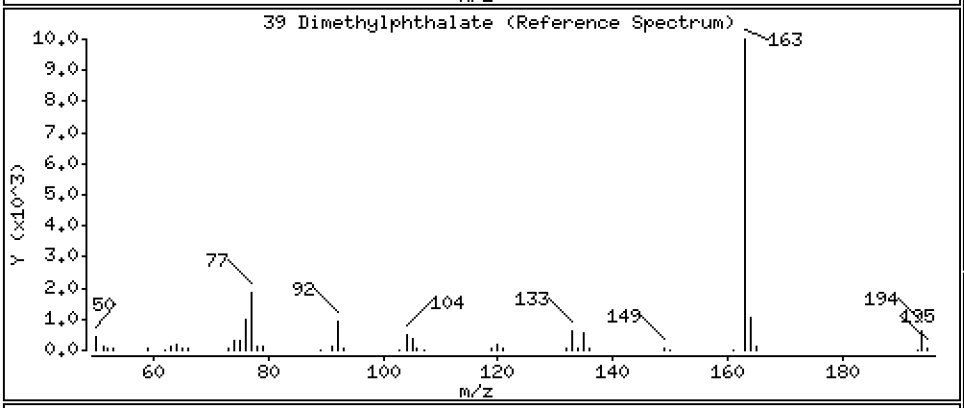
Concentration: 5.362 ug/mL

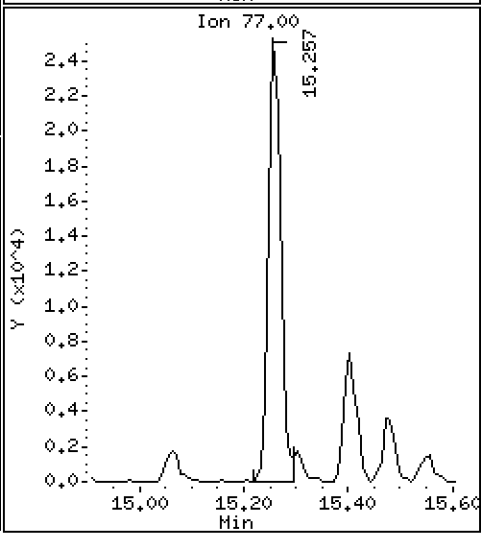


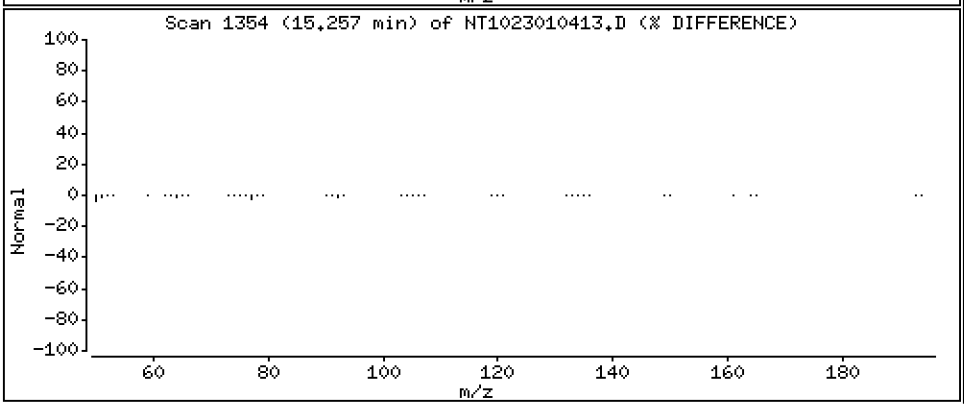












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

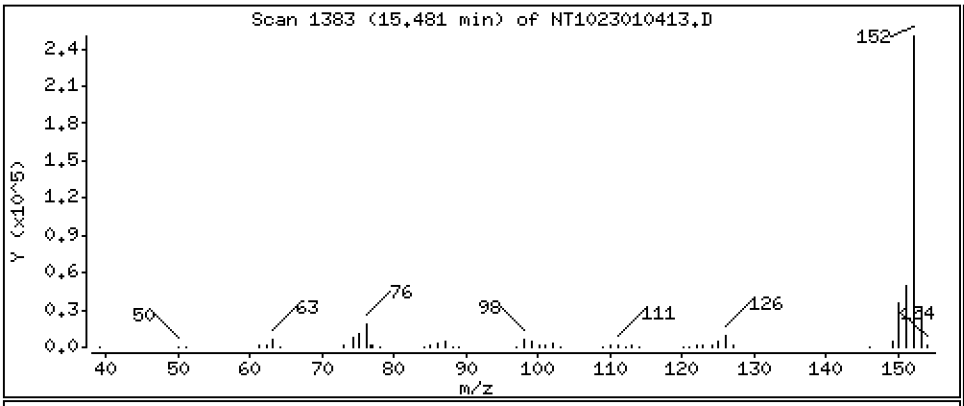
Operator: VTS

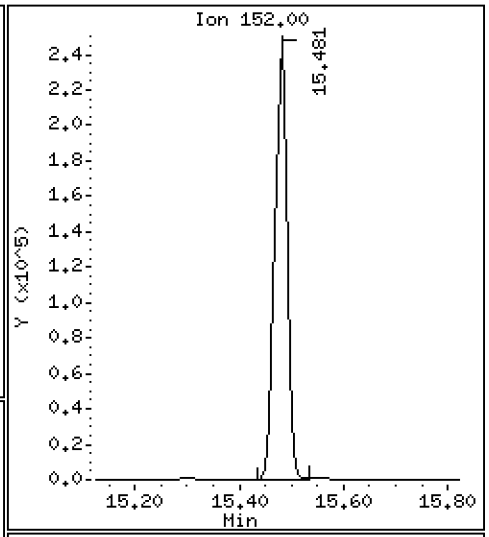
Column phase: ZB-5msi

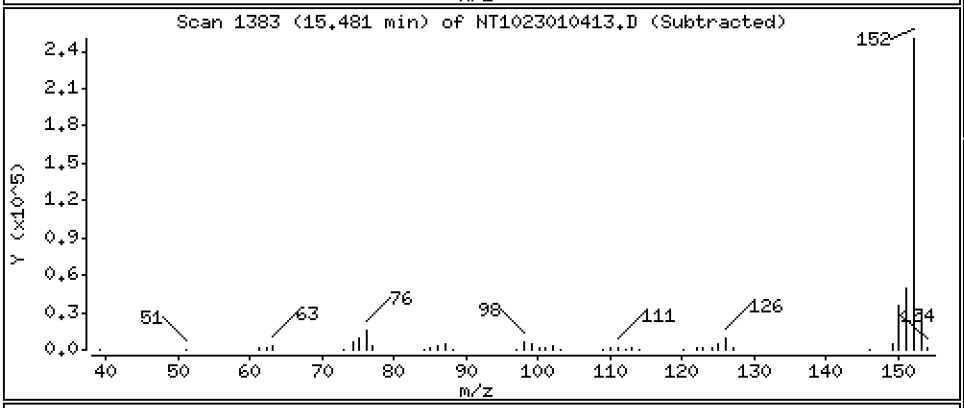
Column diameter: 0.25

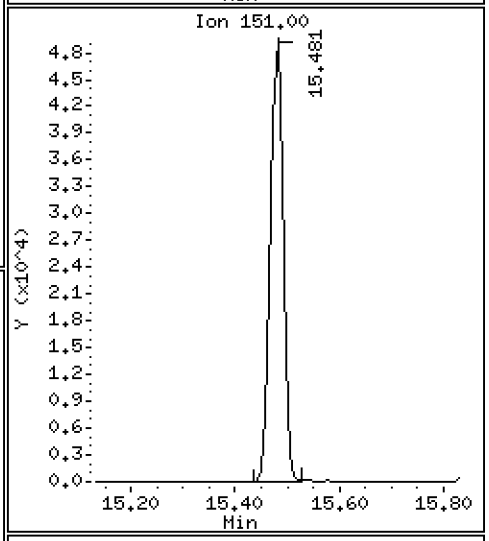
40 Acenaphthylene

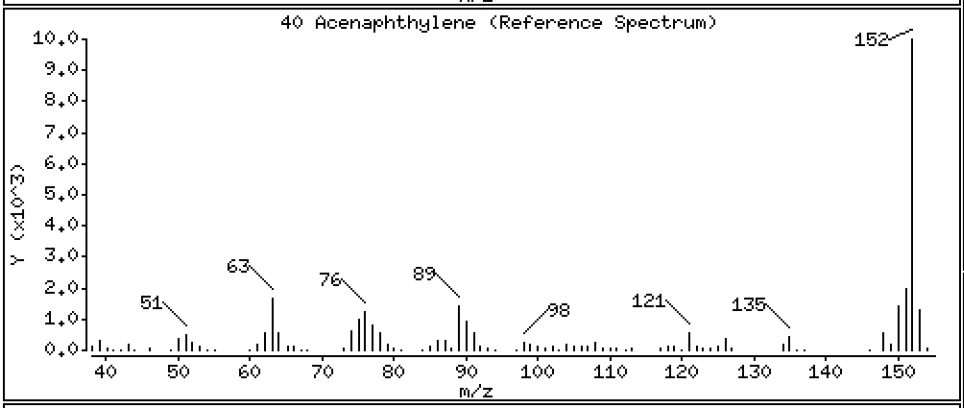
Concentration: 5.275 ug/mL

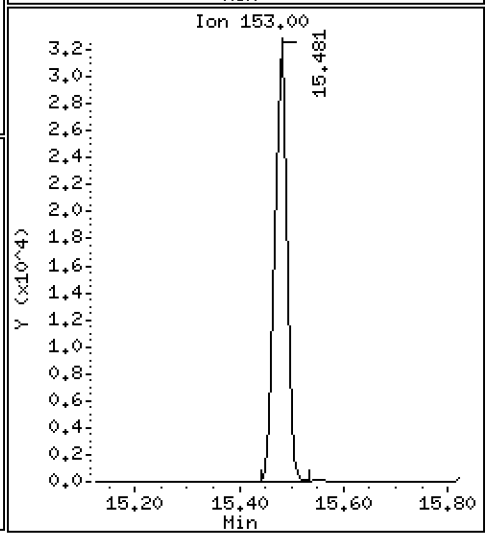


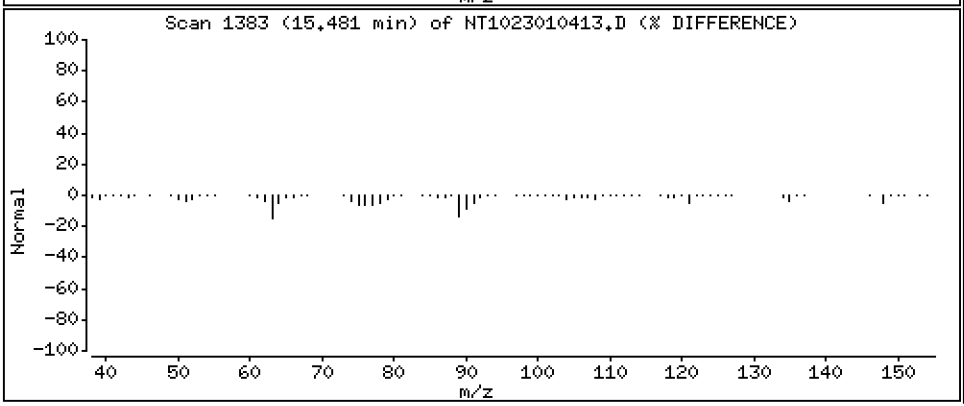












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

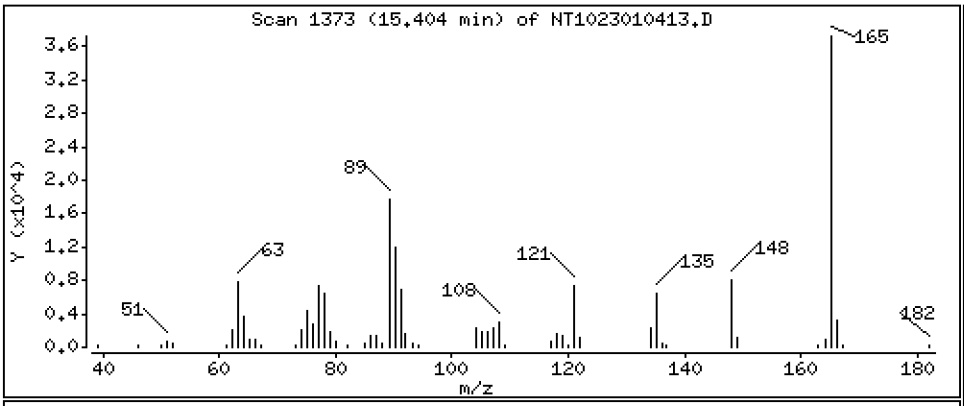
Operator: VTS

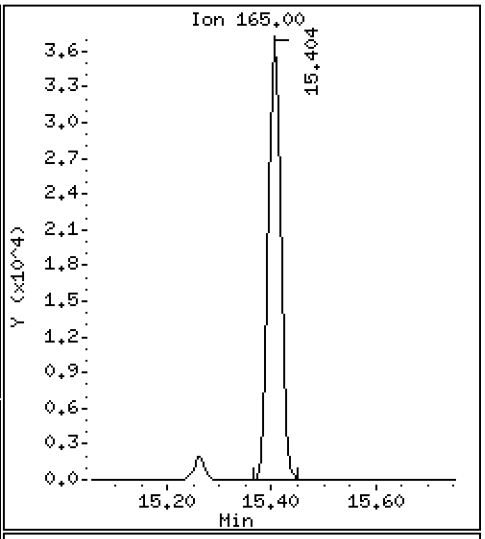
Column phase: ZB-5msi

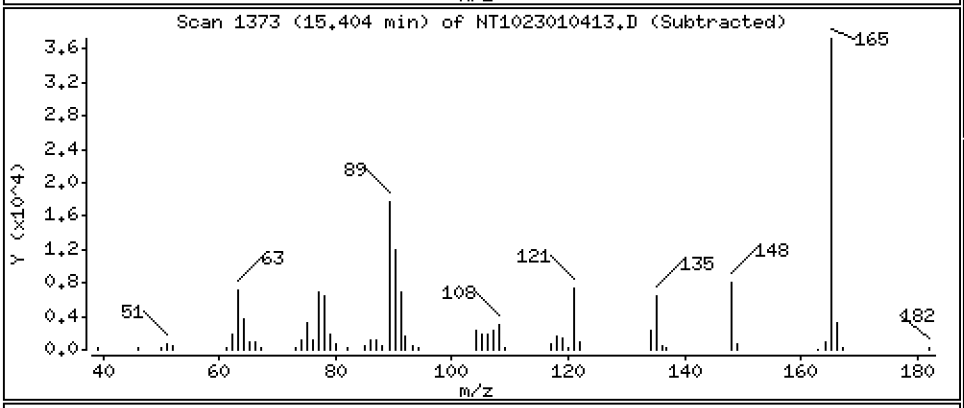
Column diameter: 0.25

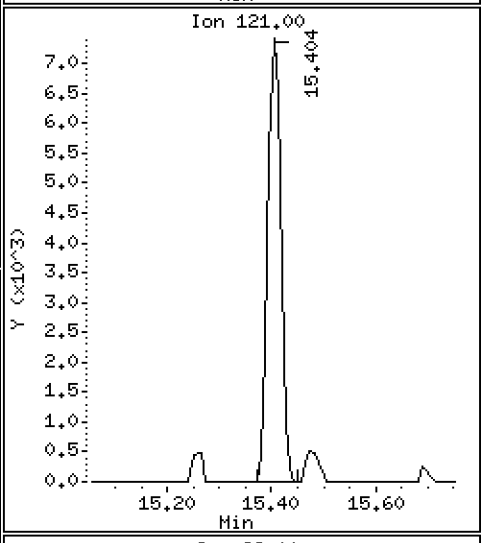
41 2,6-Dinitrotoluene

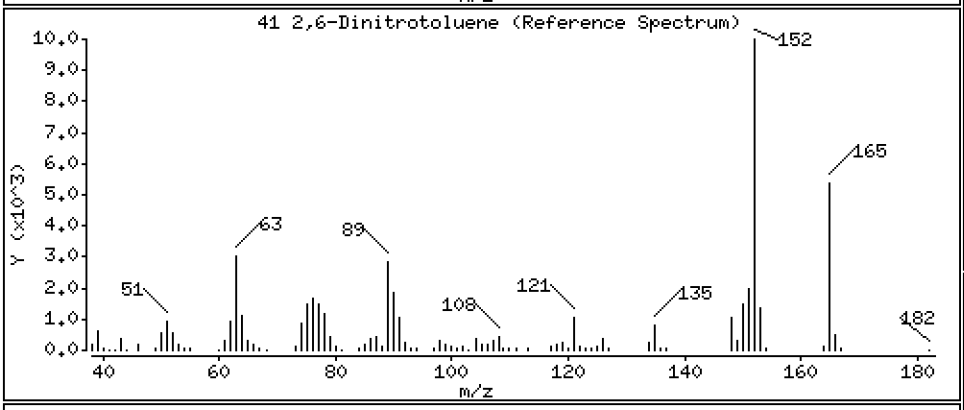
Concentration: 5.450 ug/mL

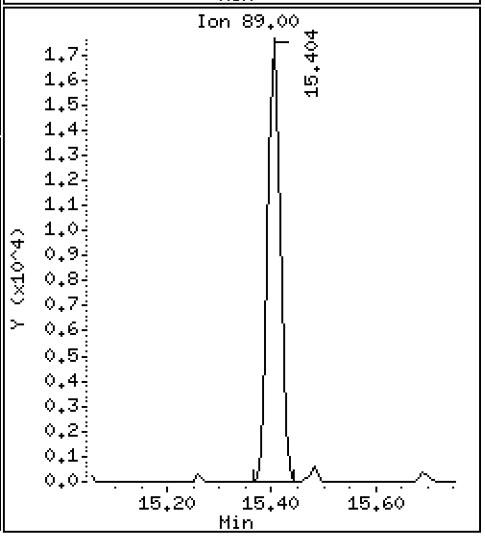


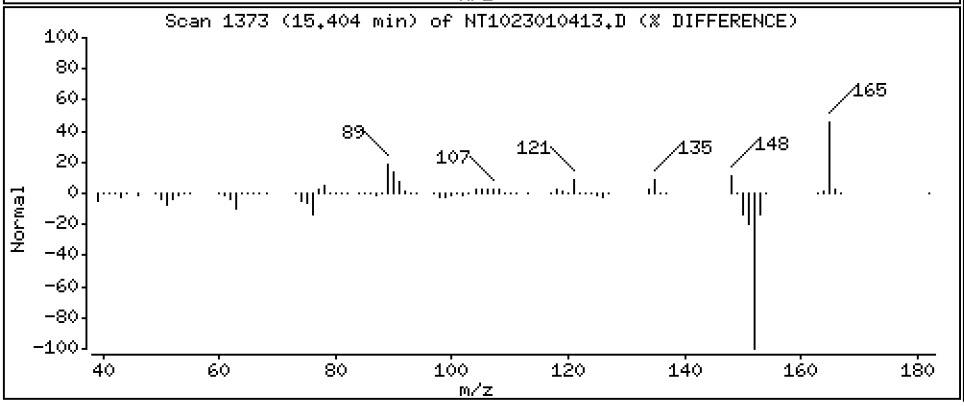












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

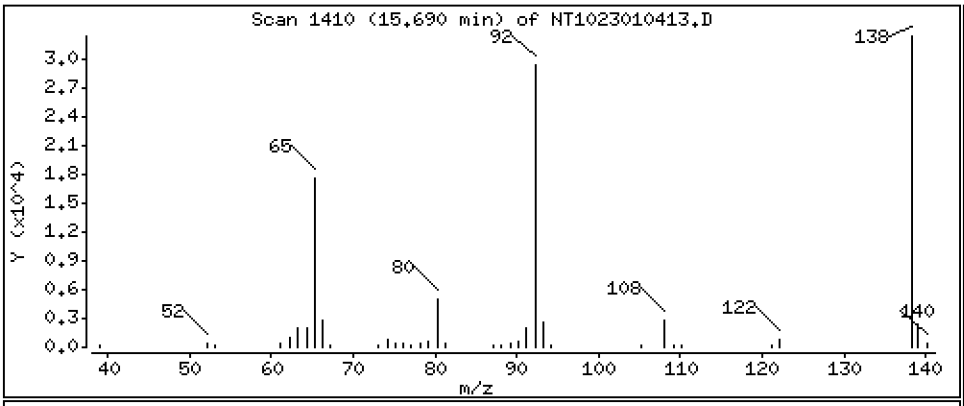
Operator: VTS

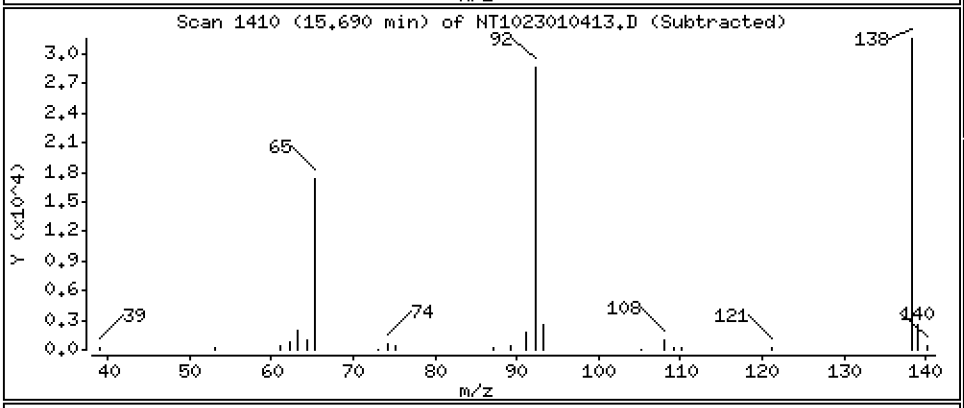
Column phase: ZB-5msi

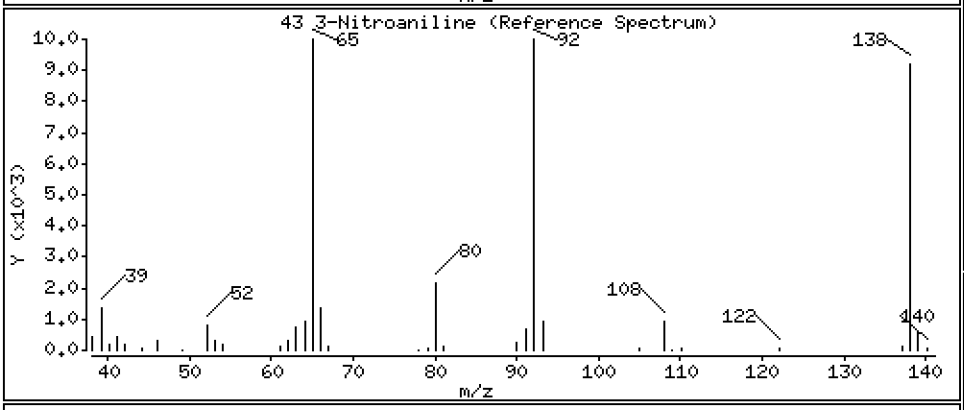
Column diameter: 0.25

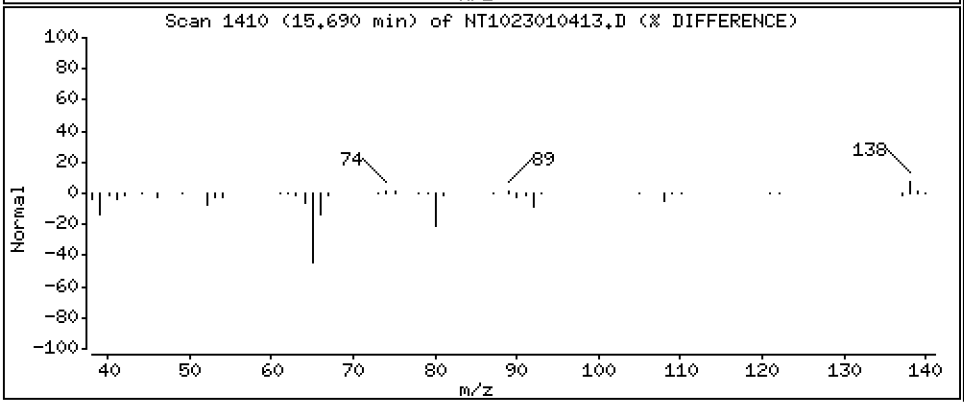
43 3-Nitroaniline

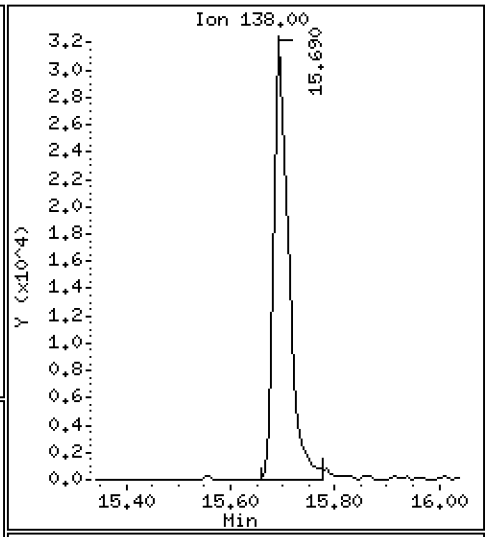
Concentration: 6.037 ug/mL

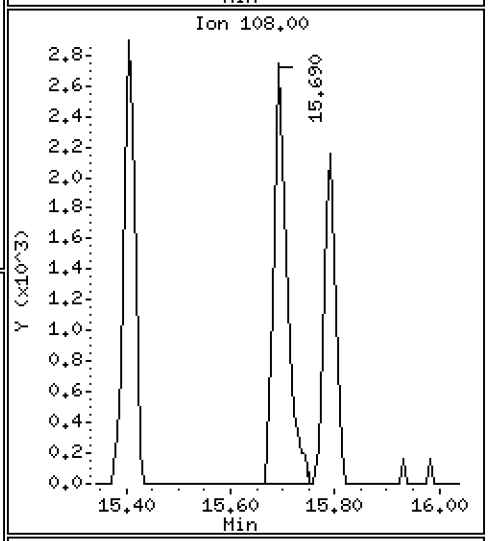


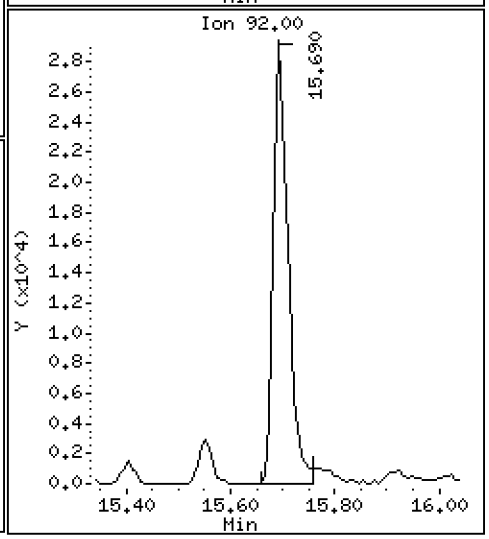












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

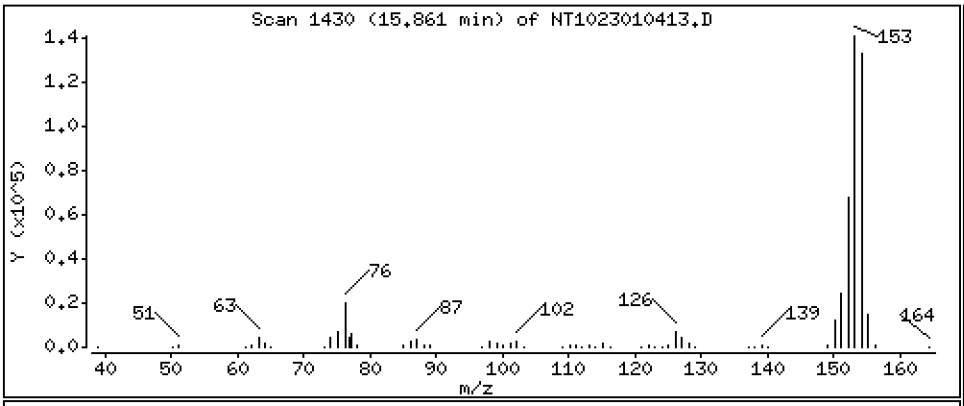
Operator: VTS

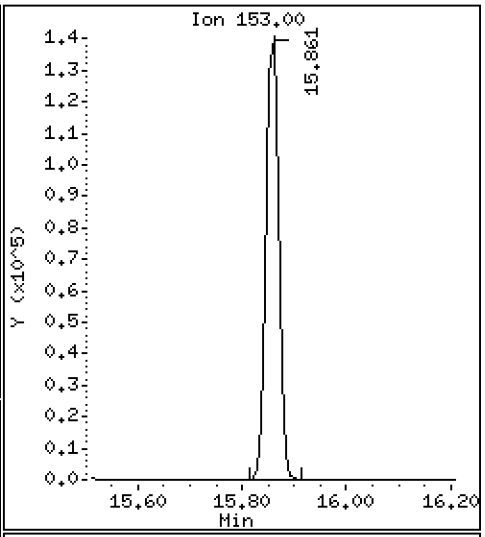
Column phase: ZB-5msi

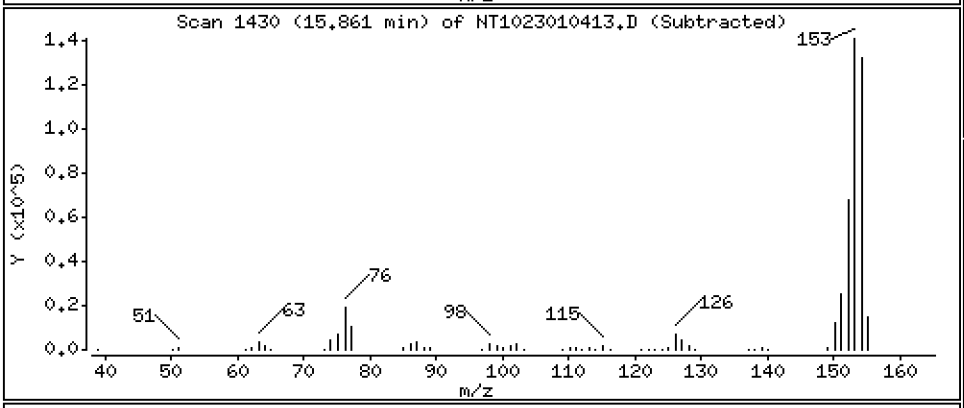
Column diameter: 0.25

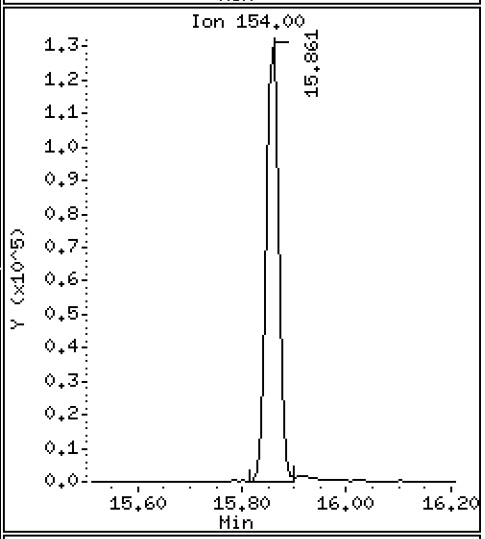
44 Acenaphthene

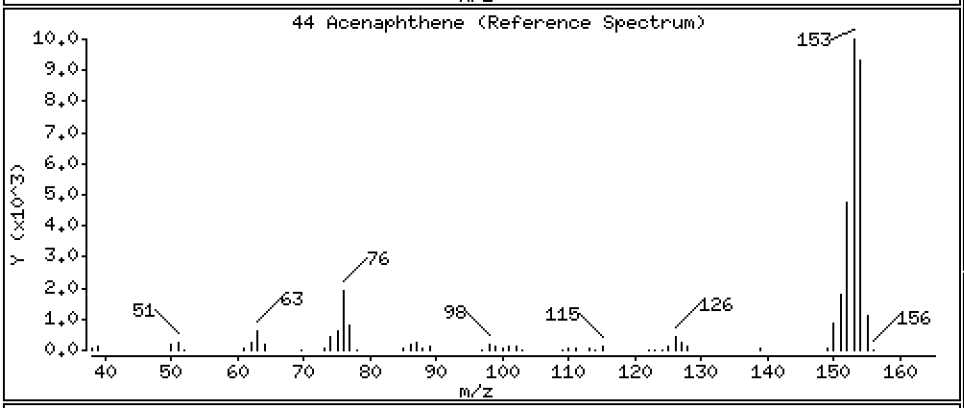
Concentration: 5.393 ug/mL

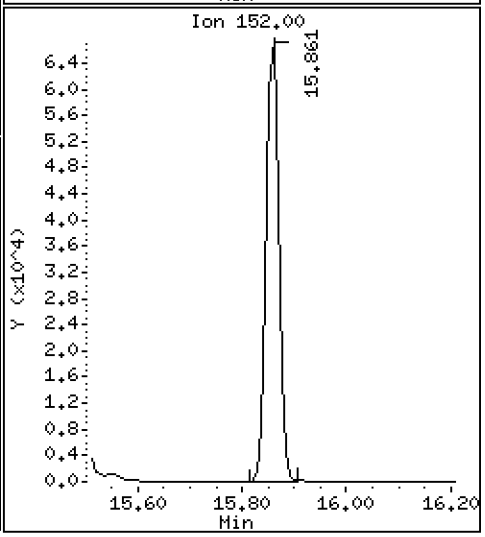


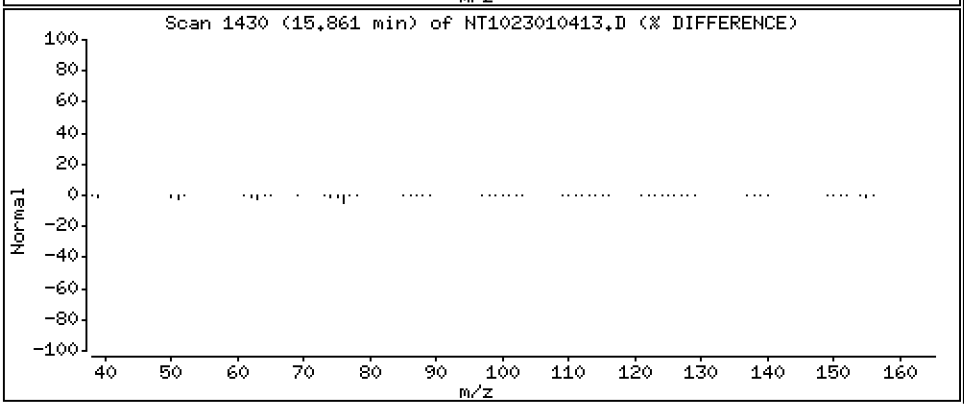












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

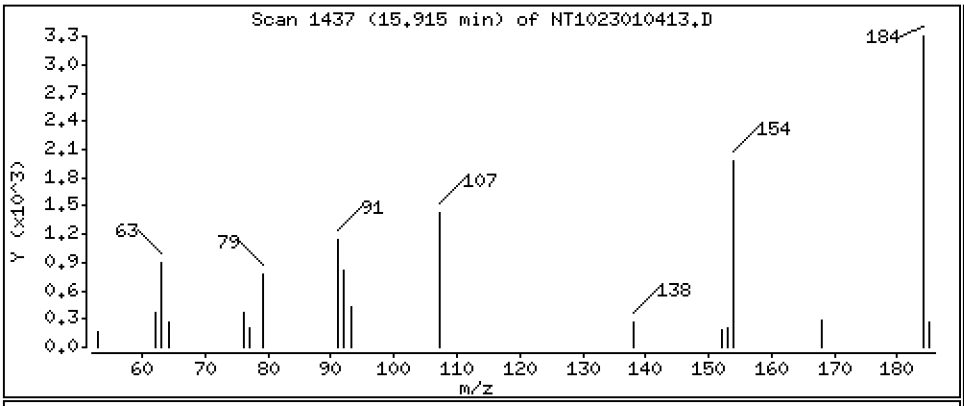
Operator: VTS

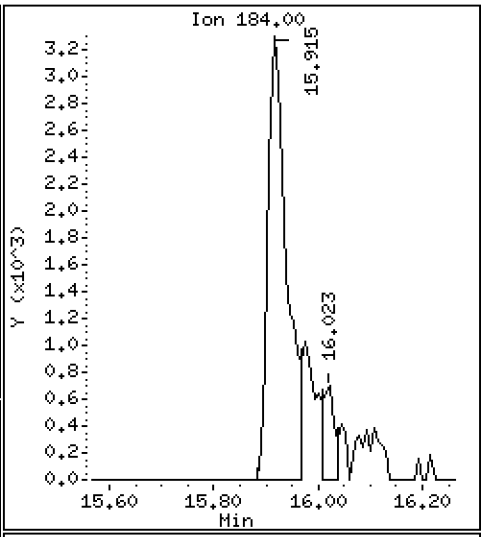
Column phase: ZB-5msi

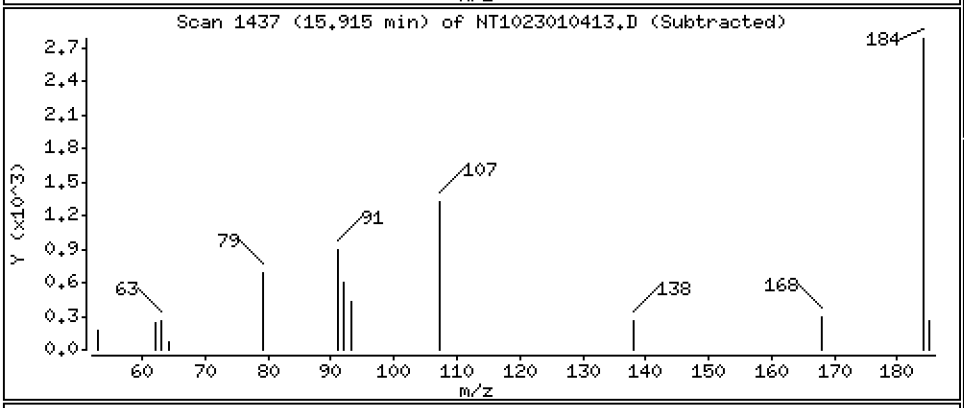
Column diameter: 0.25

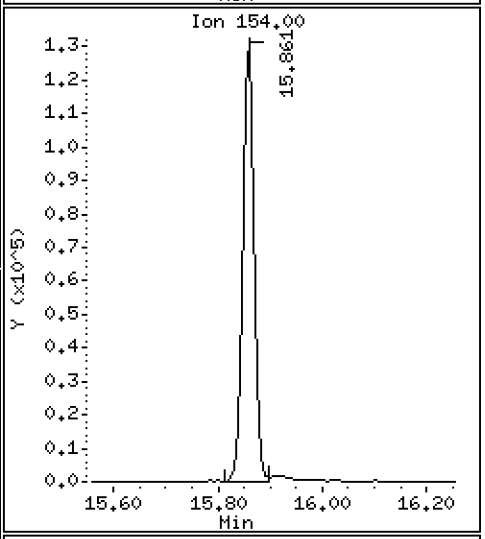
45 2,4-Dinitrophenol

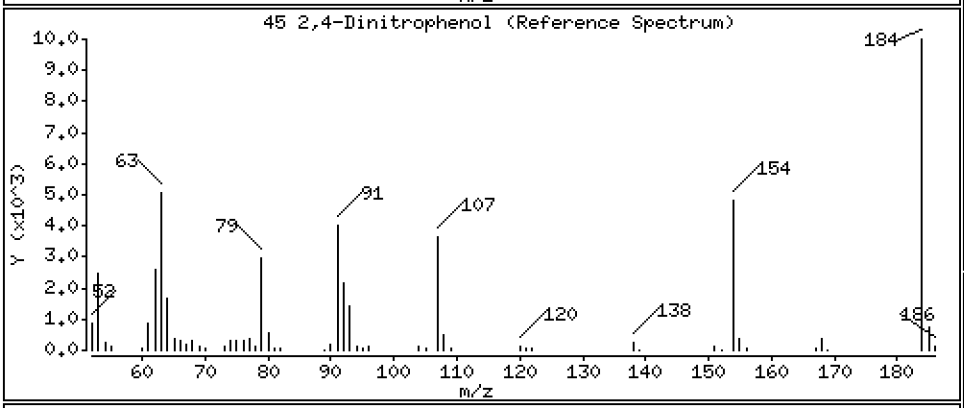
Concentration: 1.161 ug/mL

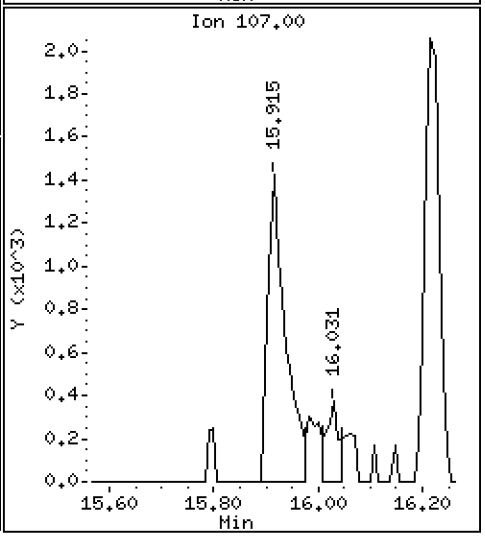


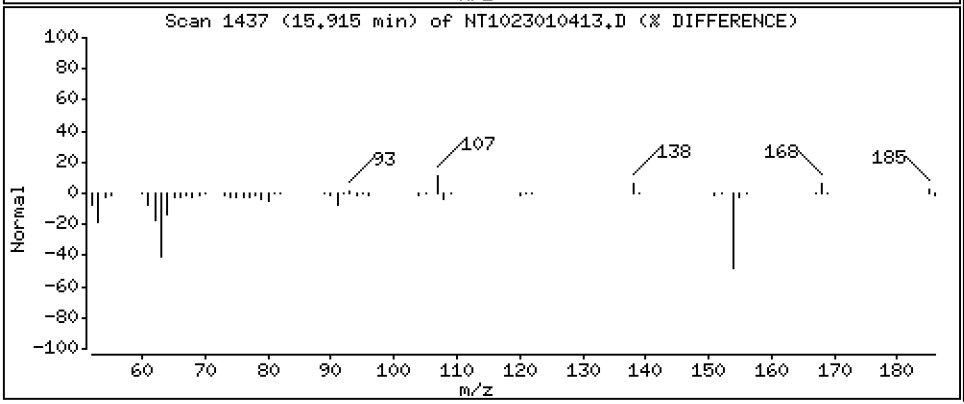












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

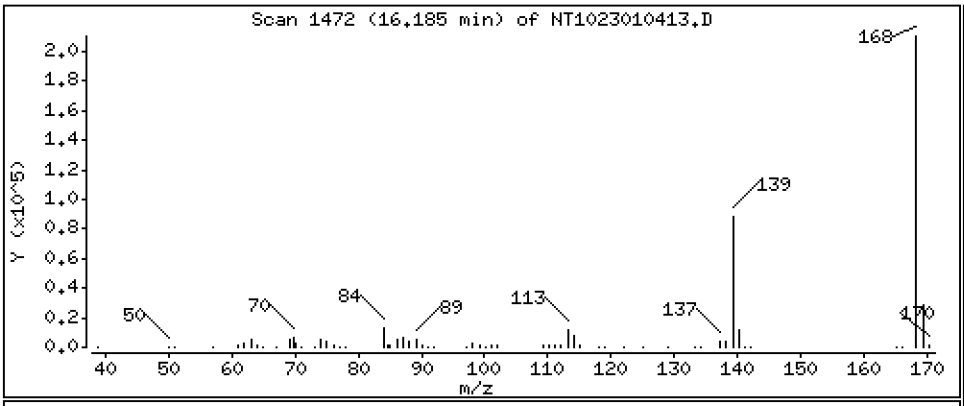
Operator: VTS

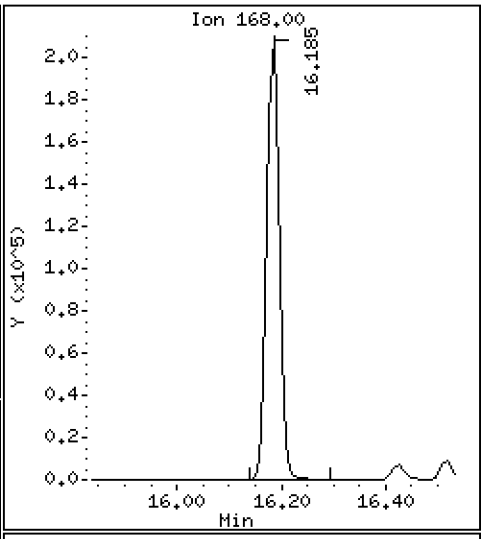
Column phase: ZB-5msi

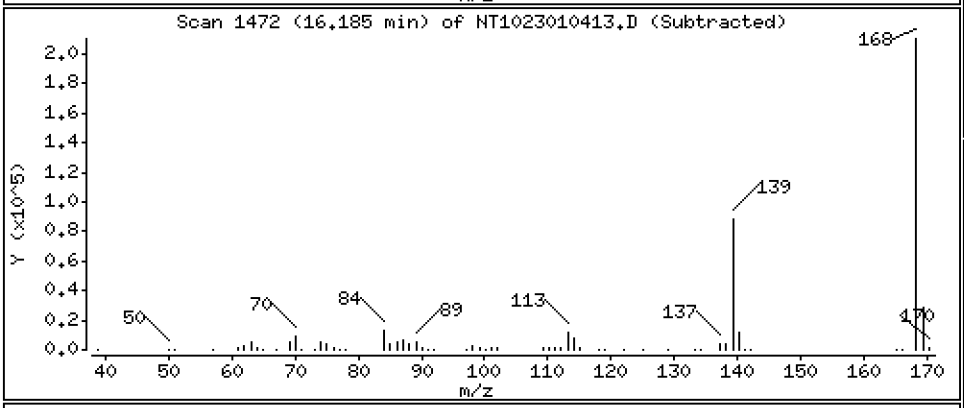
Column diameter: 0.25

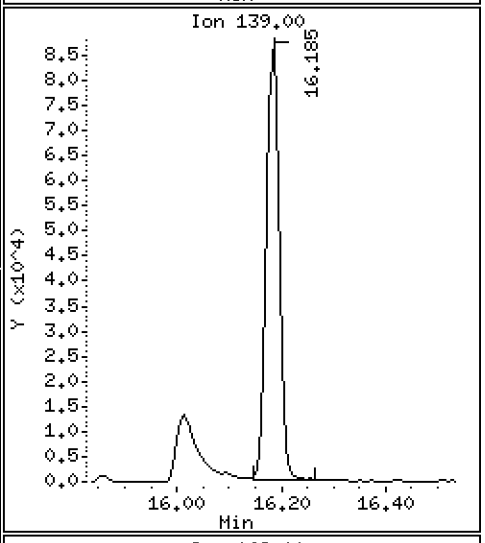
46 Dibenzofuran

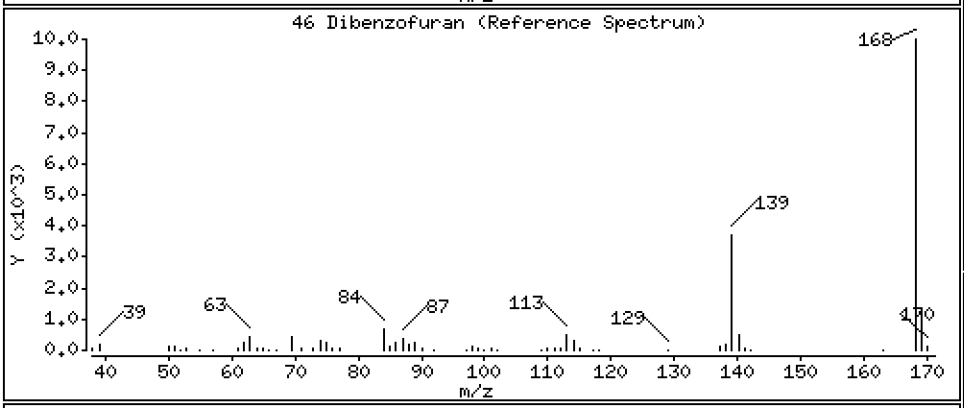
Concentration: 5.268 ug/mL

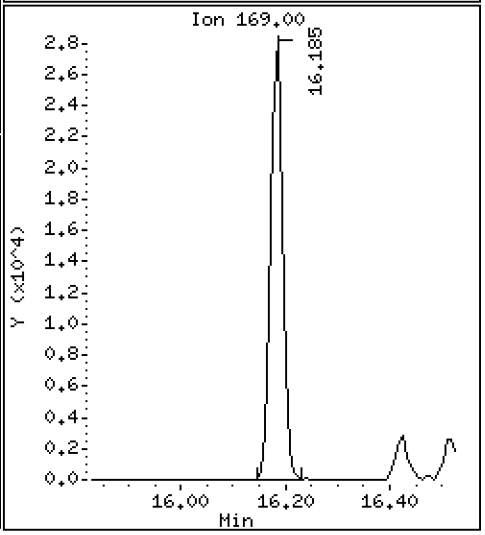


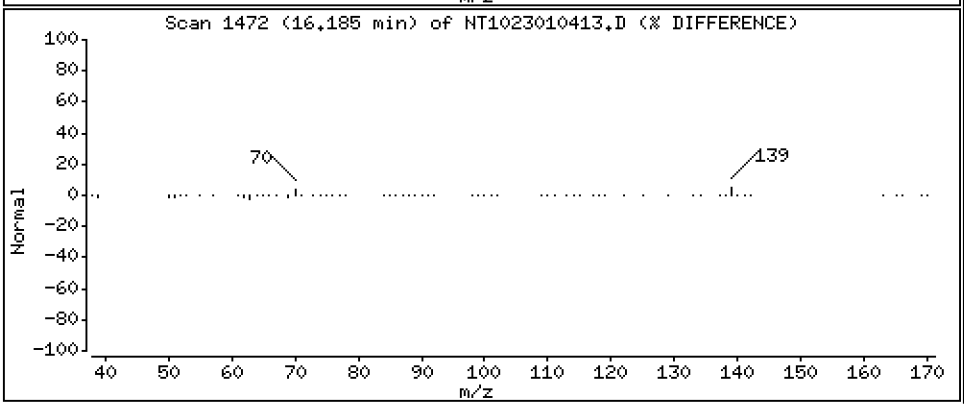












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

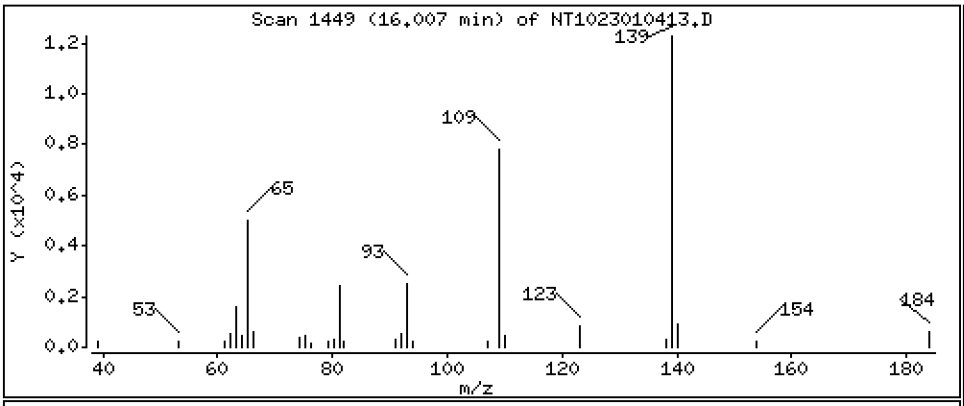
Operator: VTS

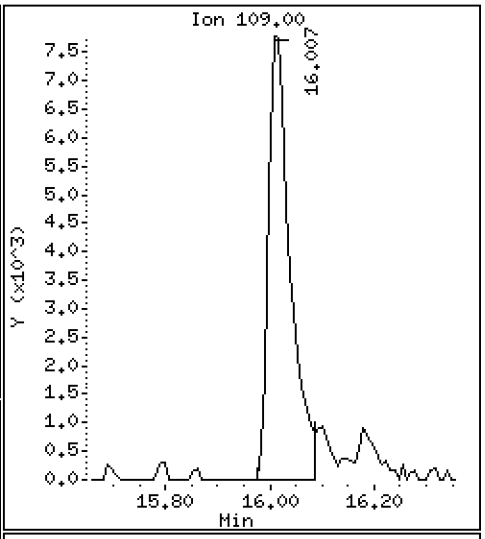
Column phase: ZB-5msi

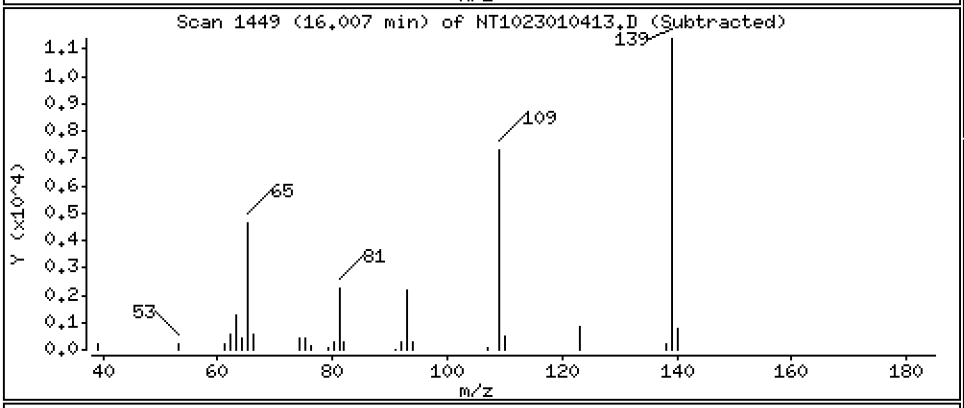
Column diameter: 0.25

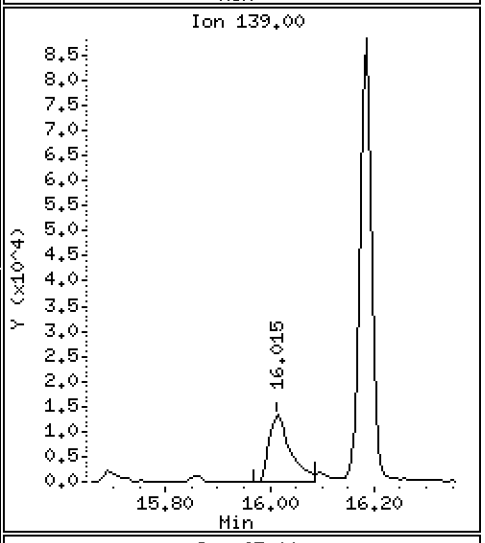
47 4-Nitrophenol

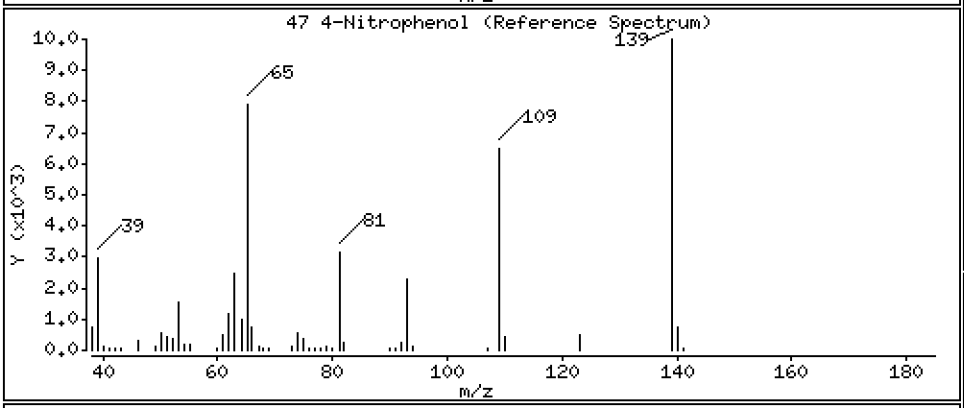
Concentration: 3.882 ug/mL

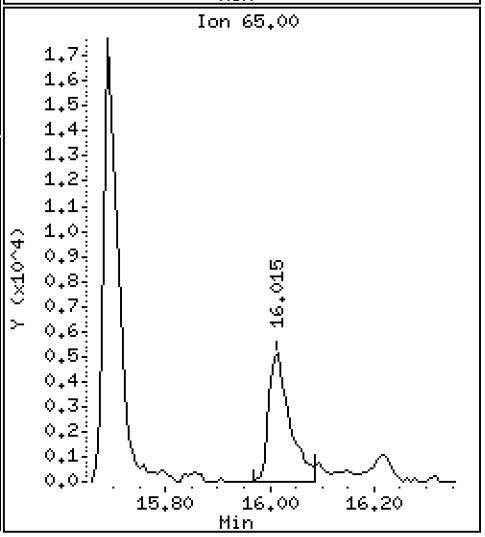


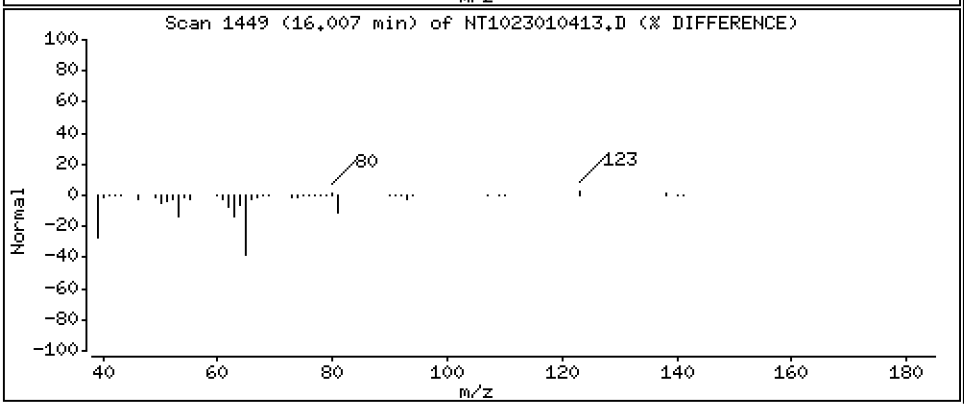












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

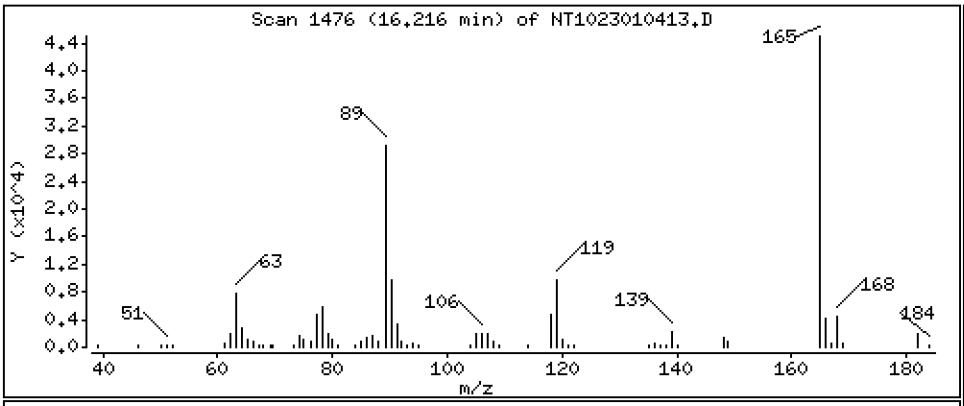
Operator: VTS

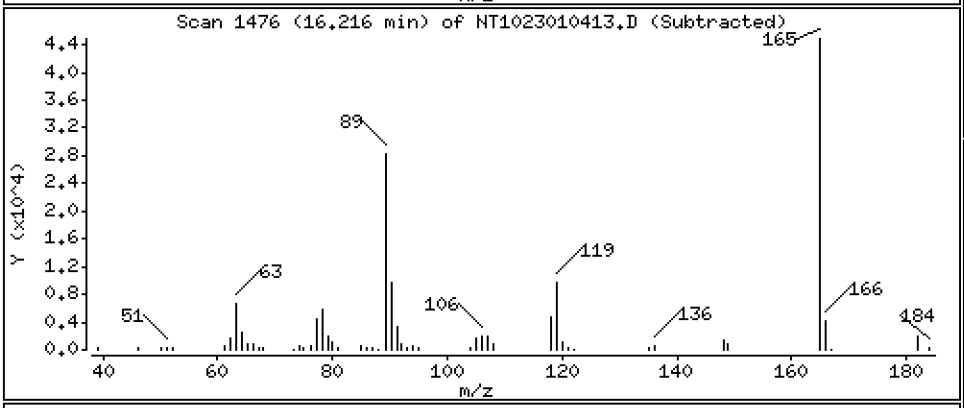
Column phase: ZB-5msi

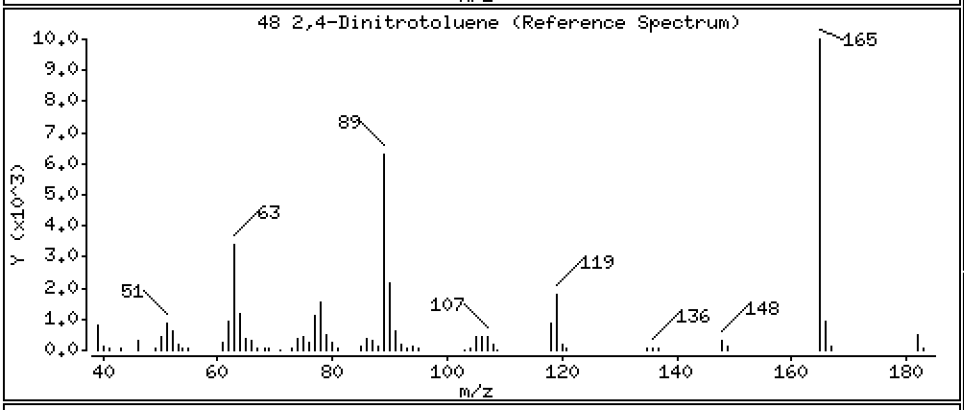
Column diameter: 0.25

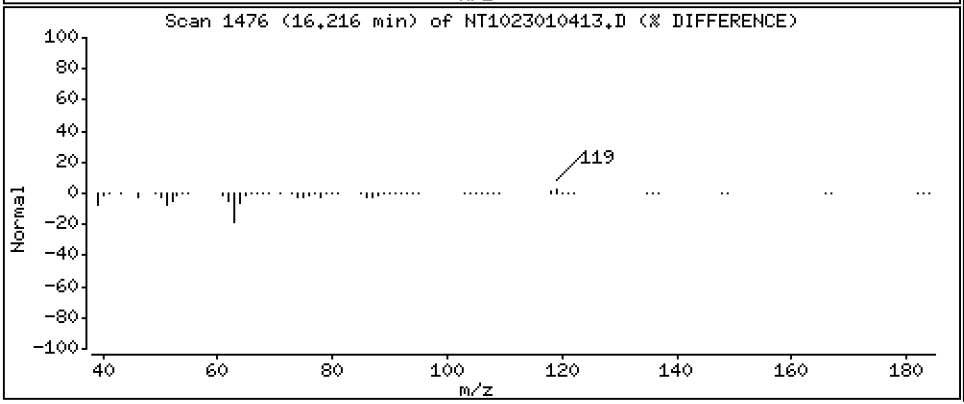
48 2,4-Dinitrotoluene

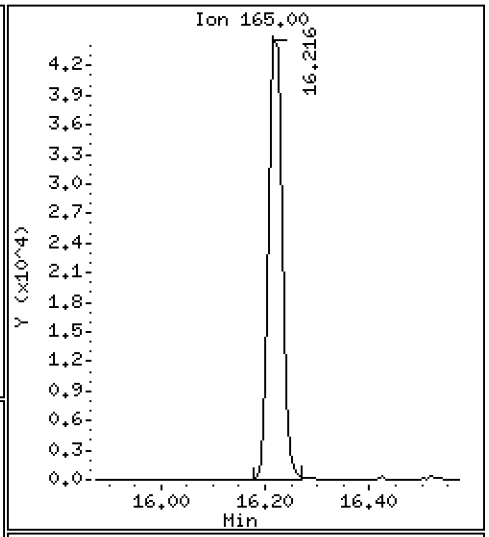
Concentration: 5.337 ug/mL

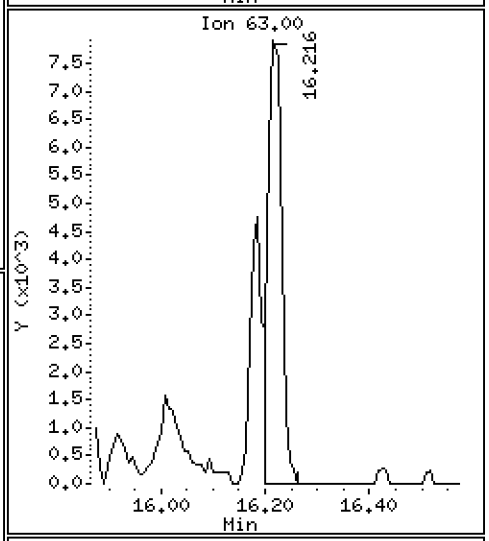


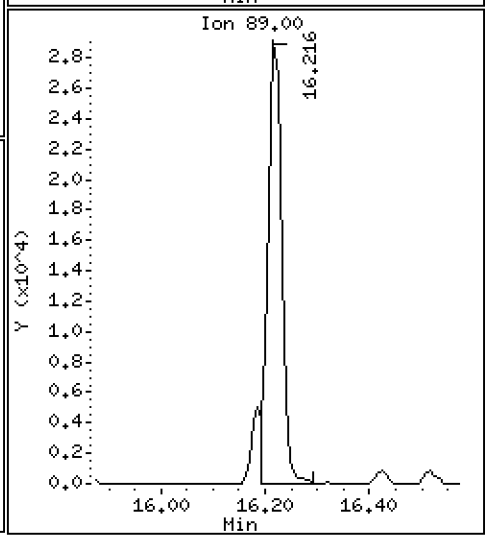












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

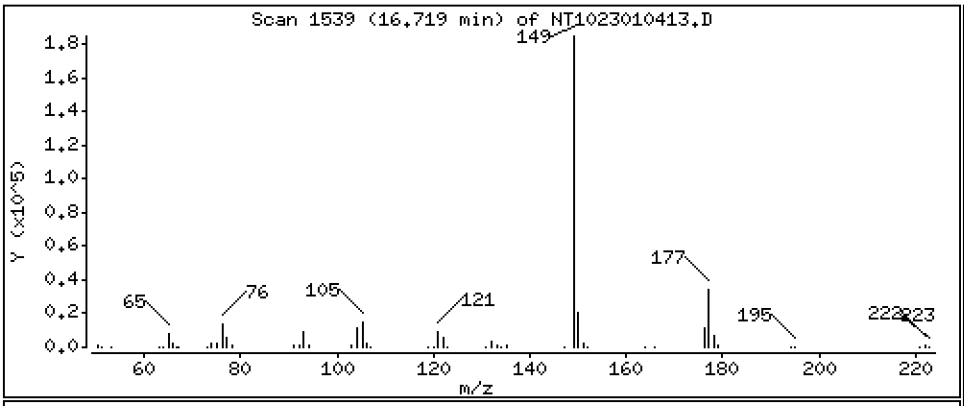
Operator: VTS

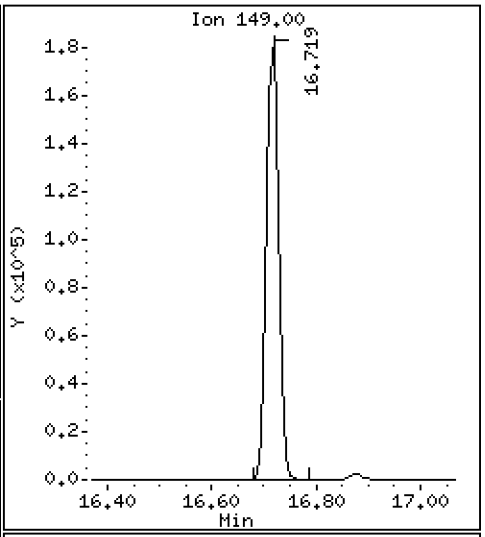
Column phase: ZB-5msi

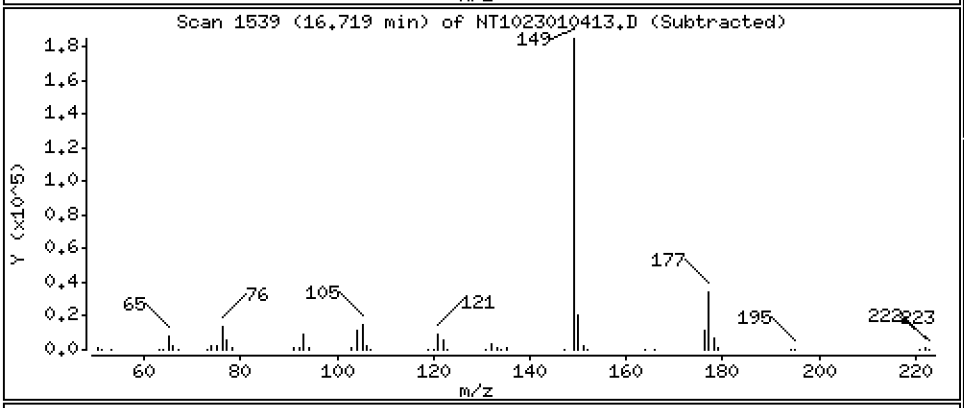
Column diameter: 0.25

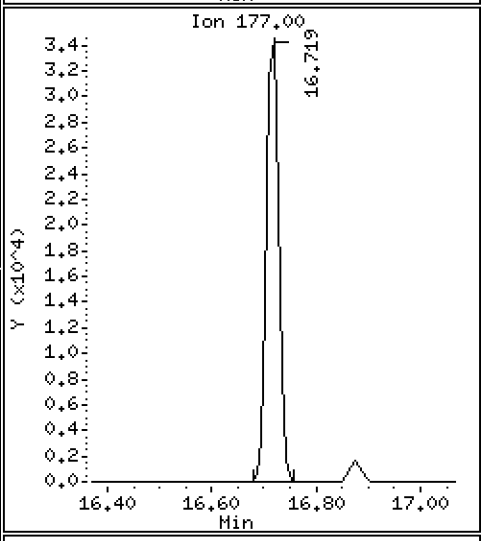
50 Diethylphthalate

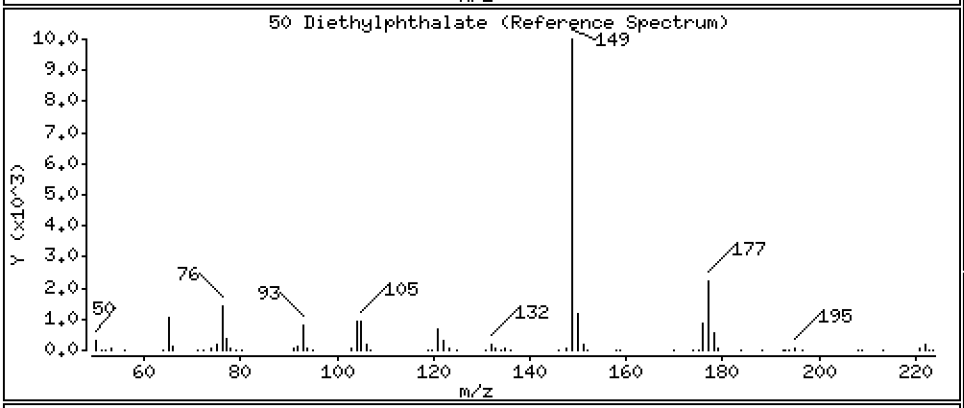
Concentration: 5.604 ug/mL

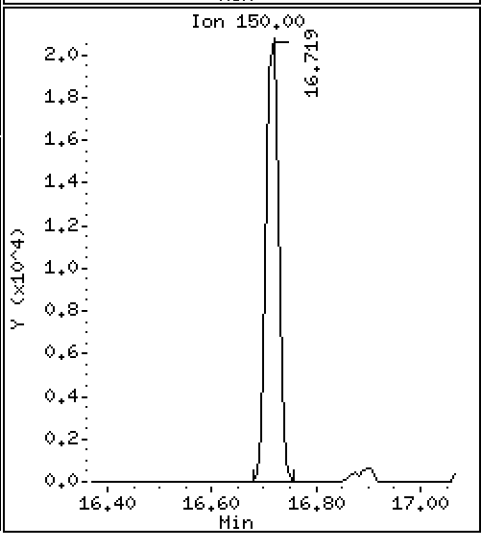


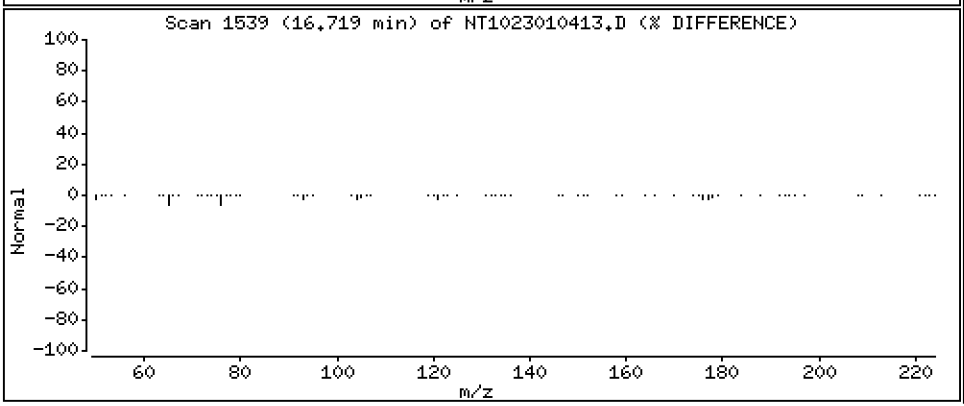












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

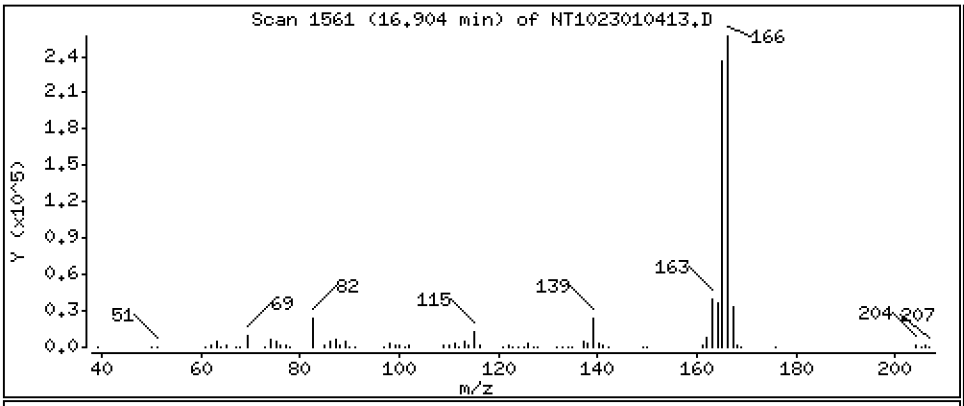
Operator: VTS

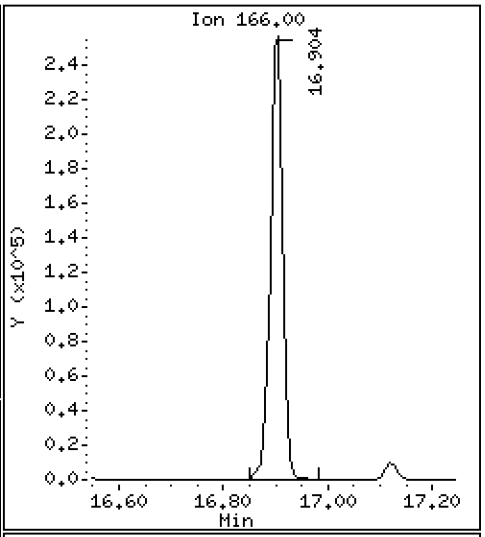
Column phase: ZB-5msi

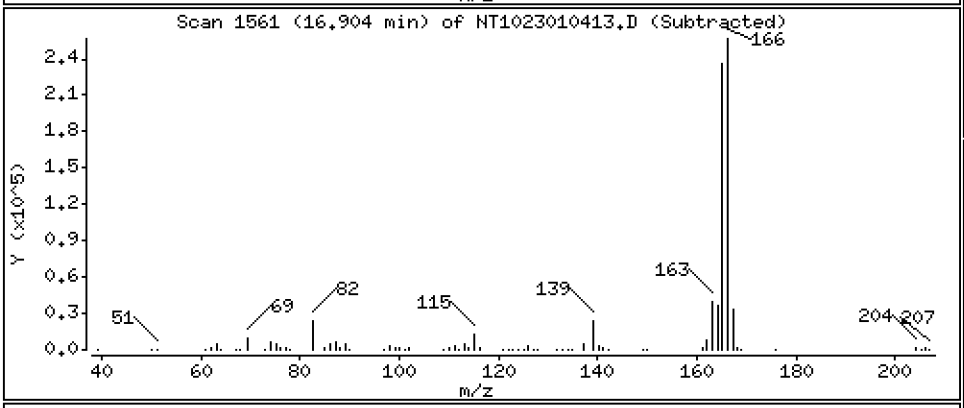
Column diameter: 0.25

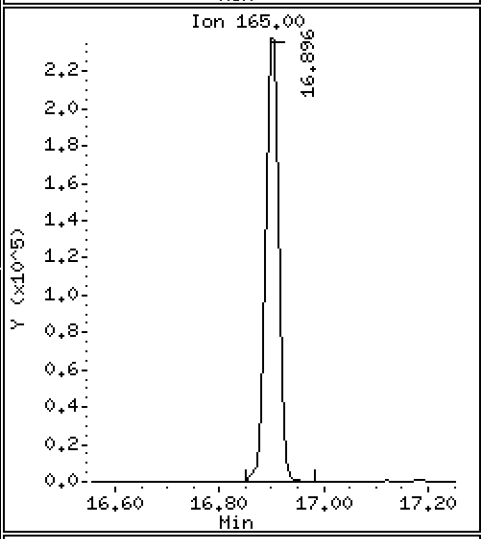
49 Fluorene

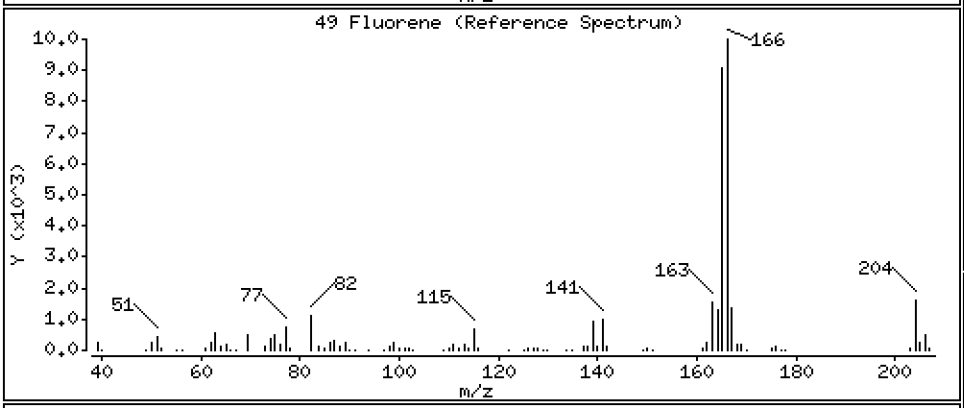
Concentration: 5.127 ug/mL

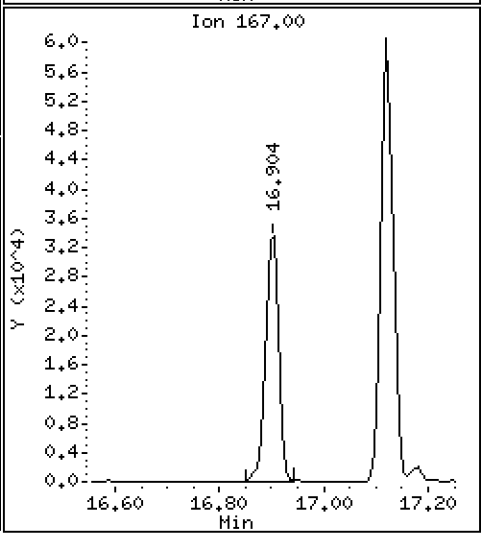


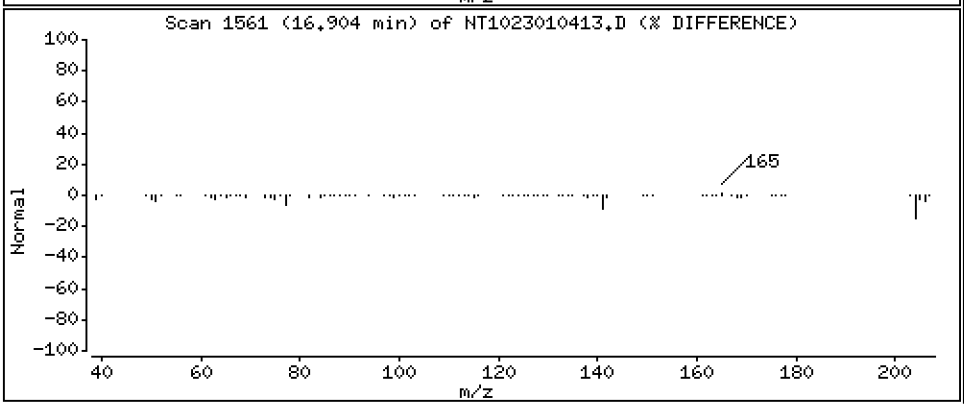












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

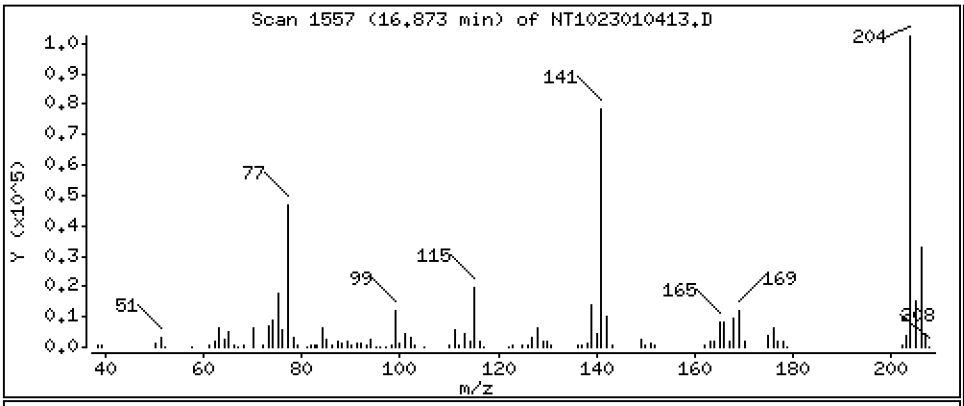
Operator: VTS

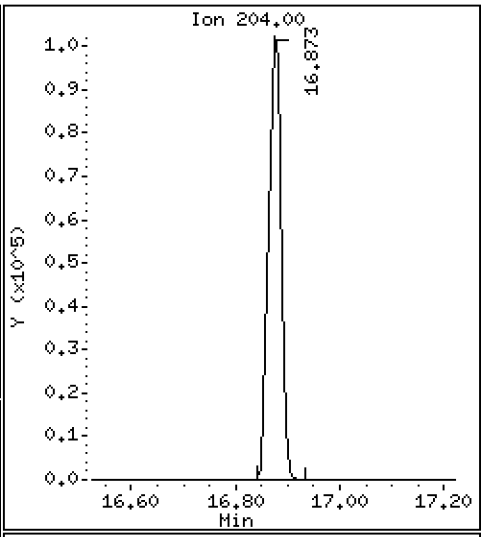
Column phase: ZB-5msi

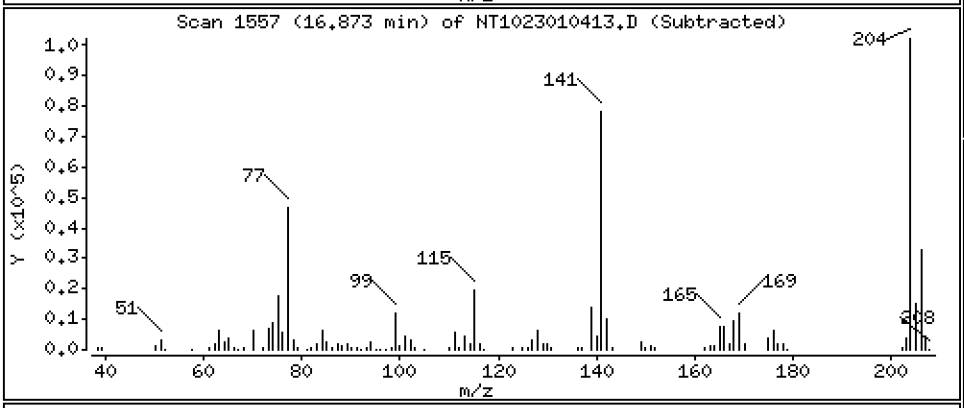
Column diameter: 0.25

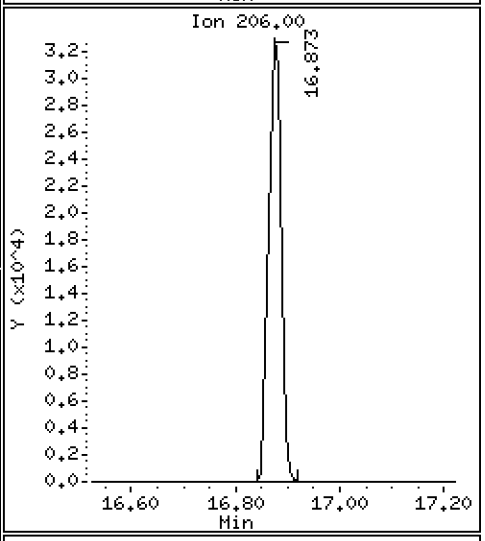
51 4-Chlorophenyl-phenylether

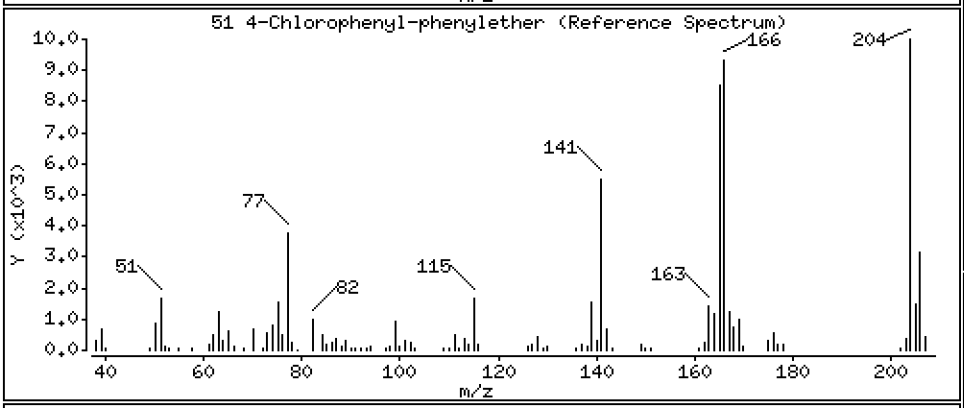
Concentration: 4.890 ug/mL

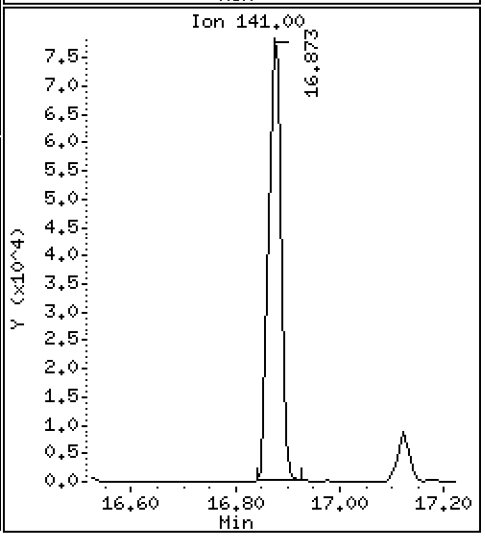


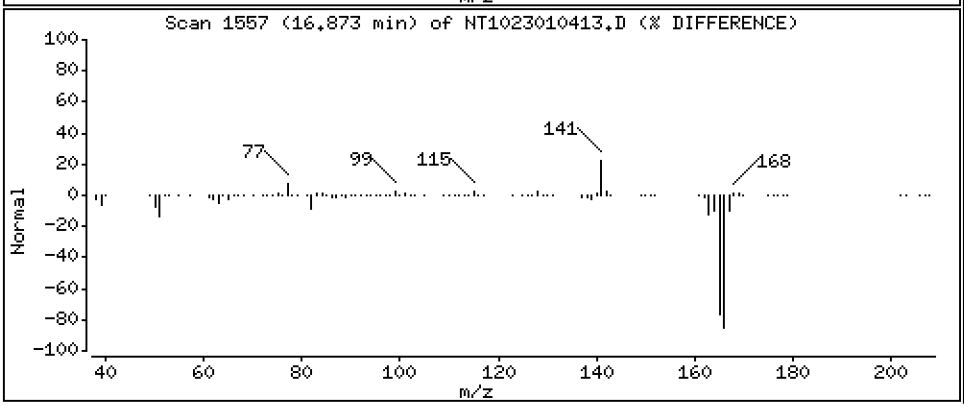












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

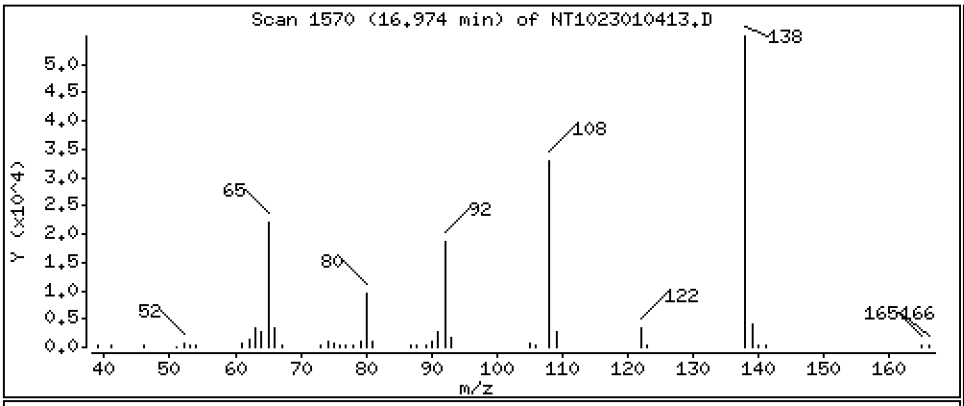
Operator: VTS

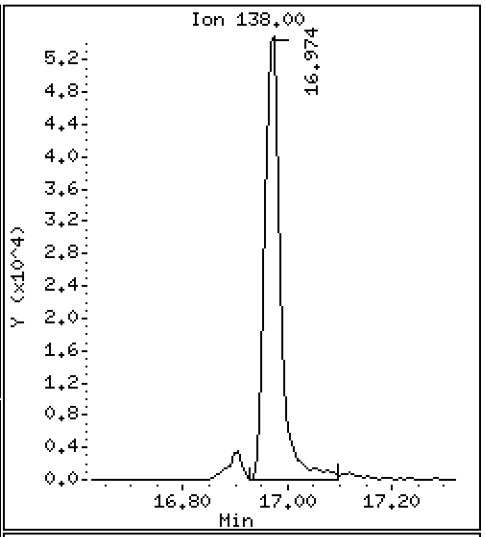
Column phase: ZB-5msi

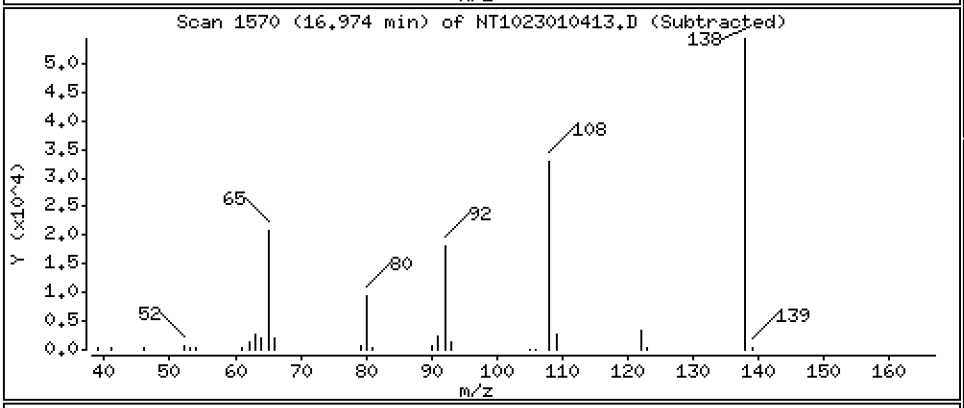
Column diameter: 0.25

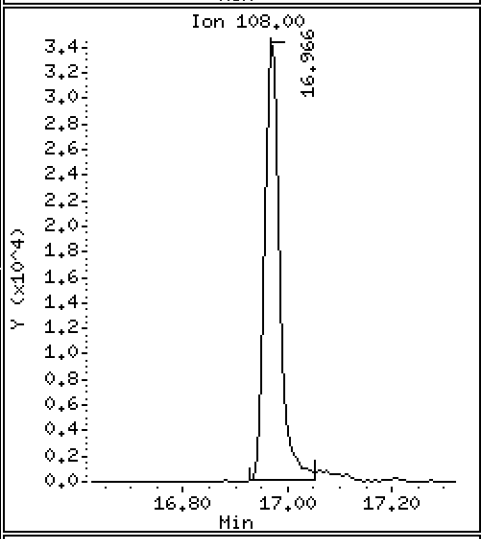
52 4-Nitroaniline

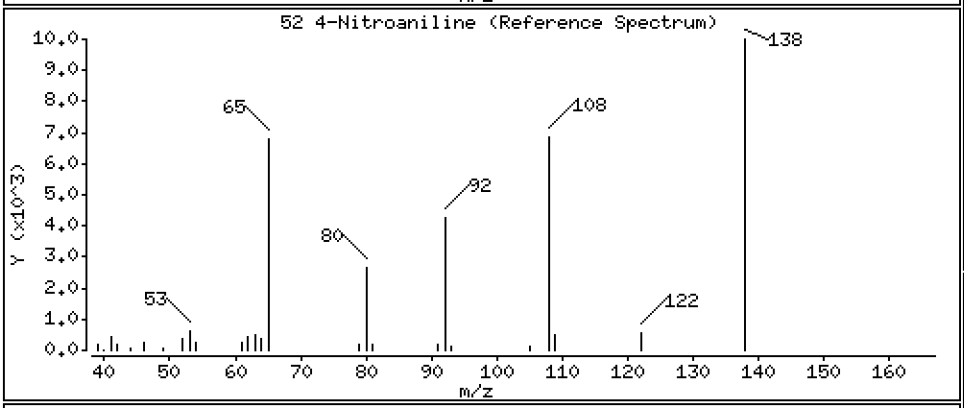
Concentration: 5.363 ug/mL

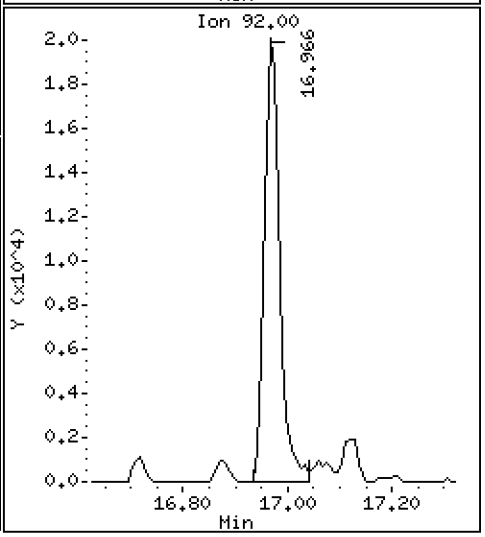


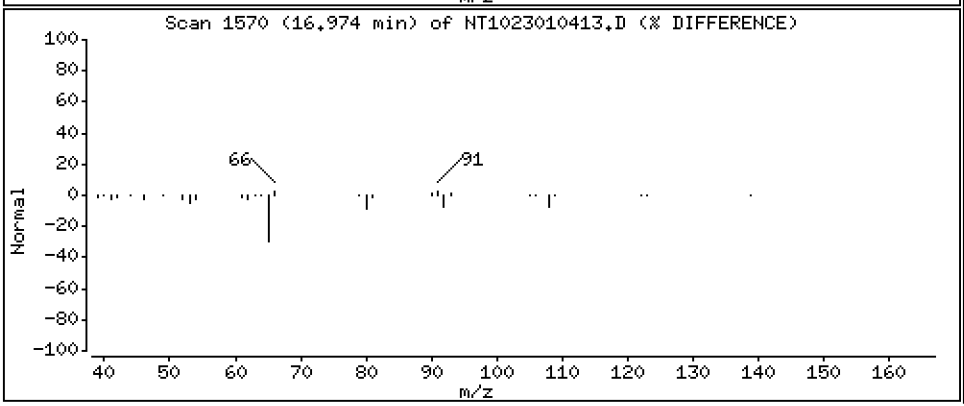












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

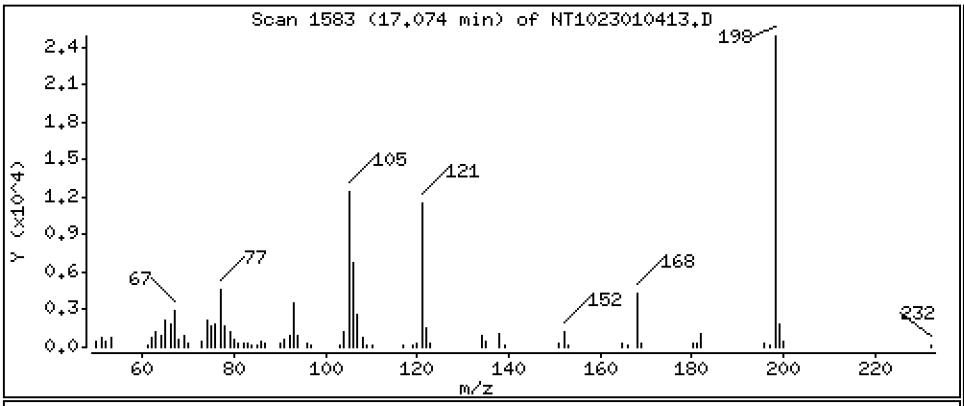
Operator: VTS

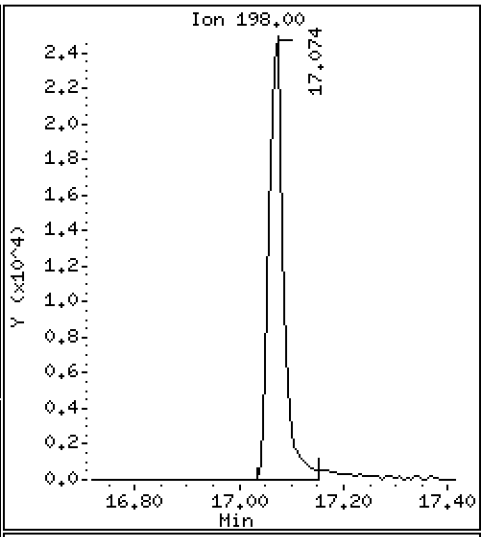
Column phase: ZB-5msi

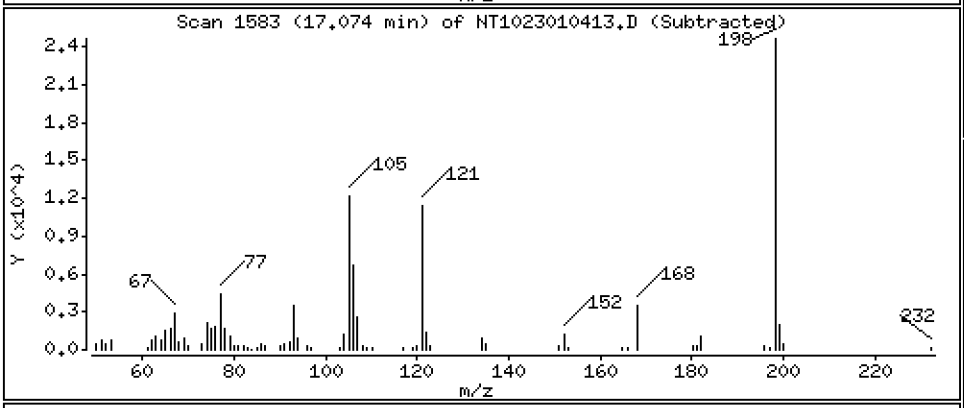
Column diameter: 0.25

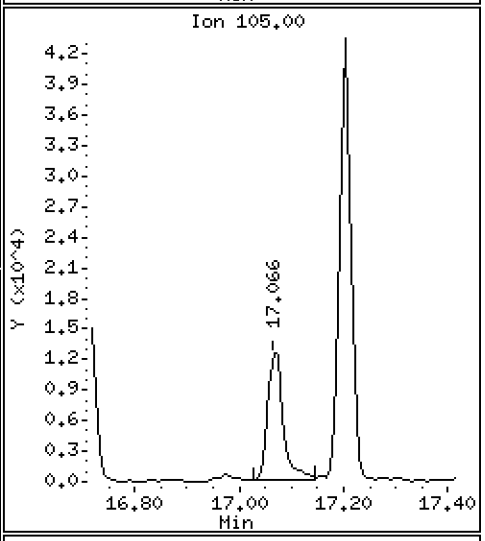
53 4,6-Dinitro-2-methylphenol

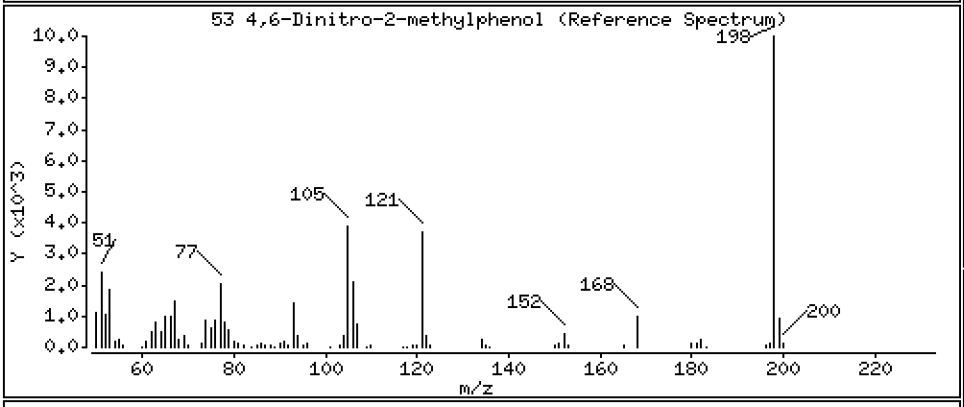
Concentration: 3.808 ug/mL

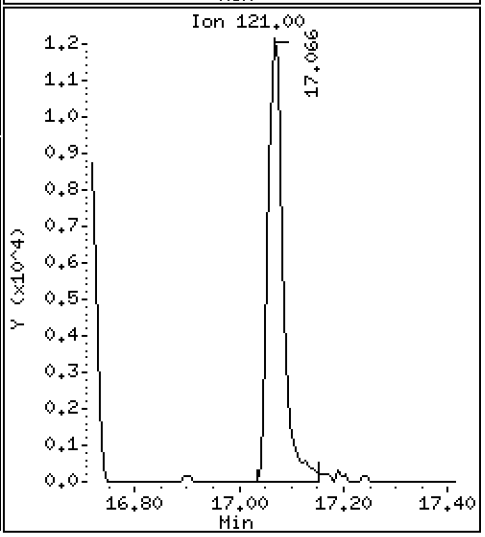


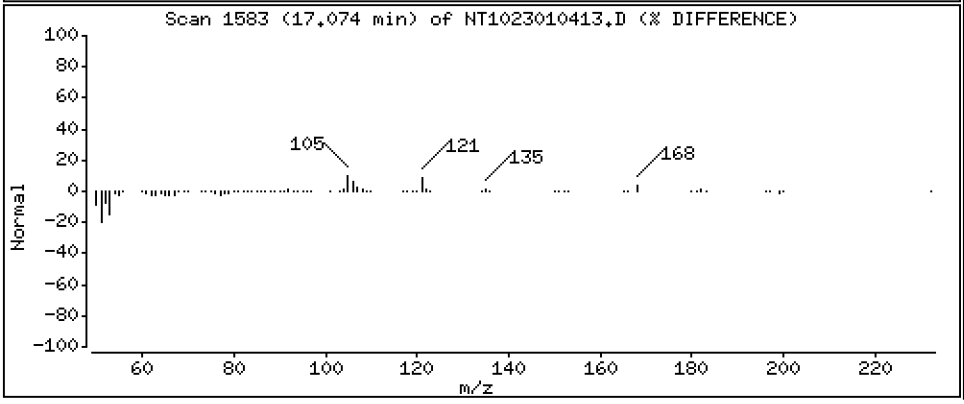












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

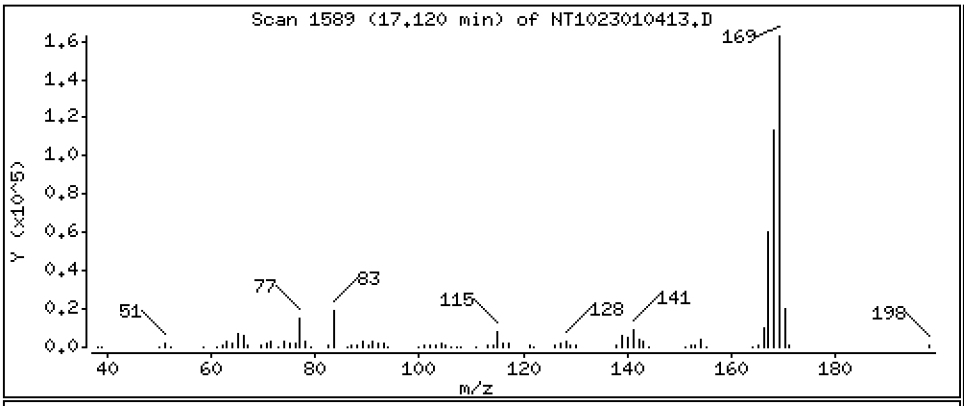
Operator: VTS

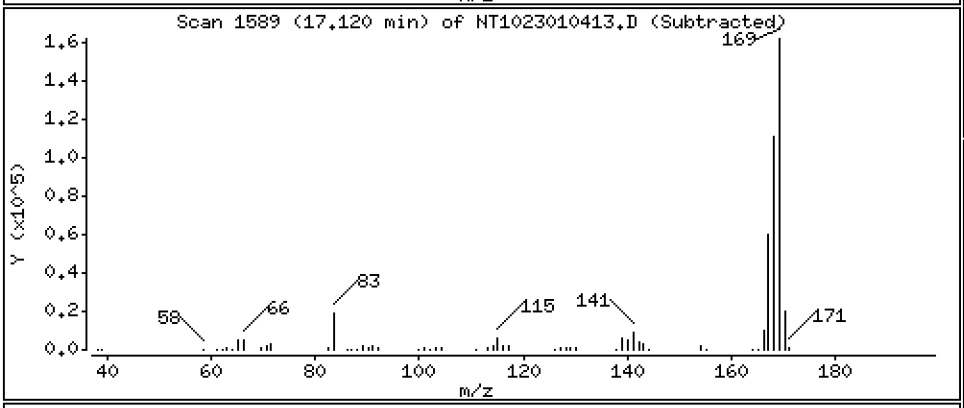
Column phase: ZB-5msi

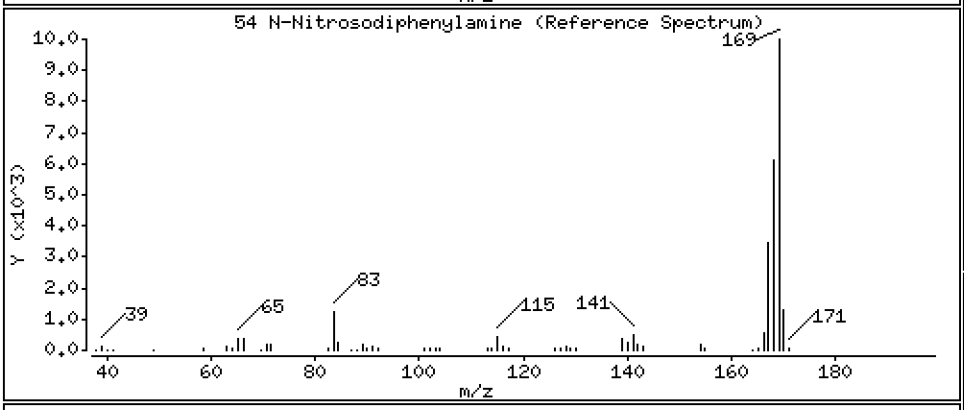
Column diameter: 0.25

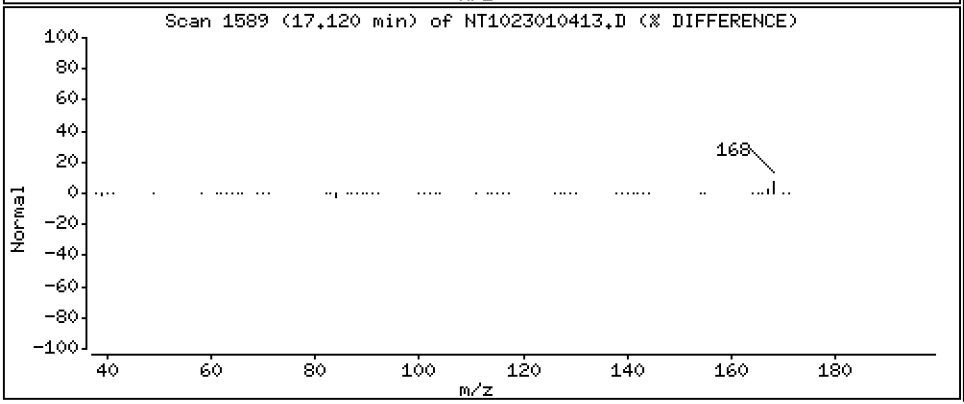
54 N-Nitrosodiphenylamine

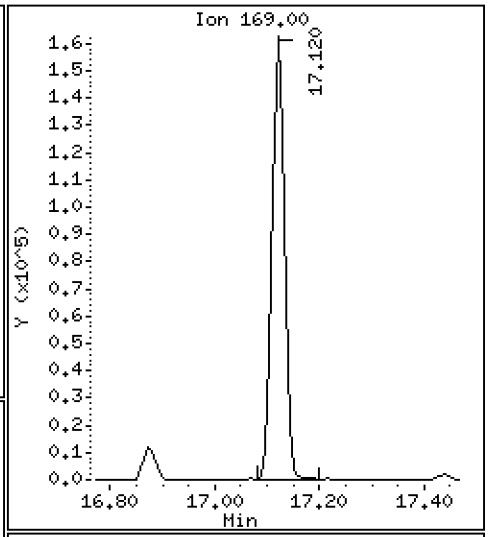
Concentration: 4.692 ug/mL

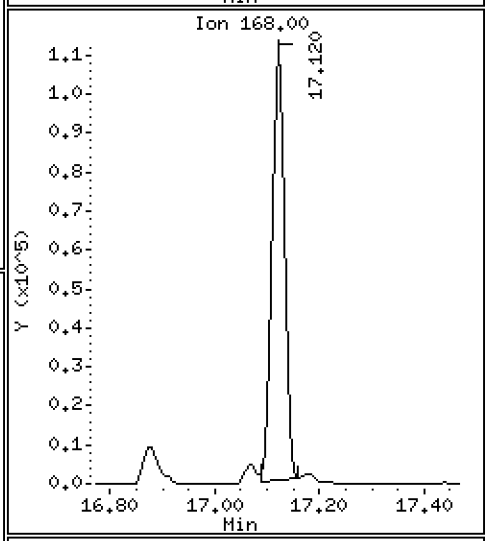


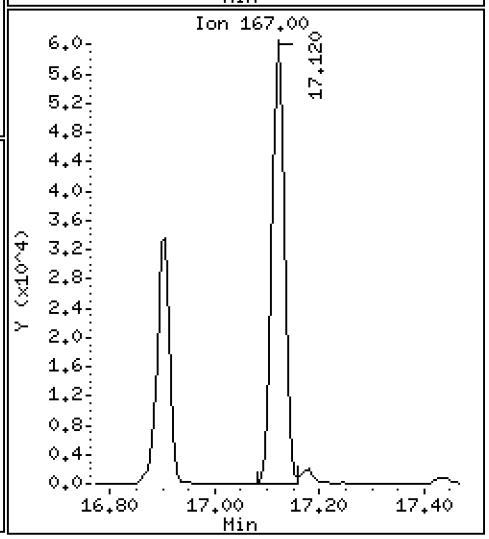












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

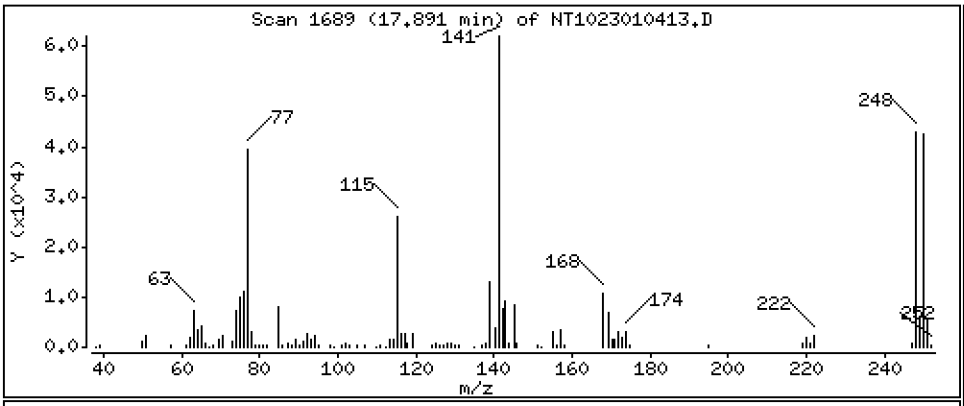
Operator: VTS

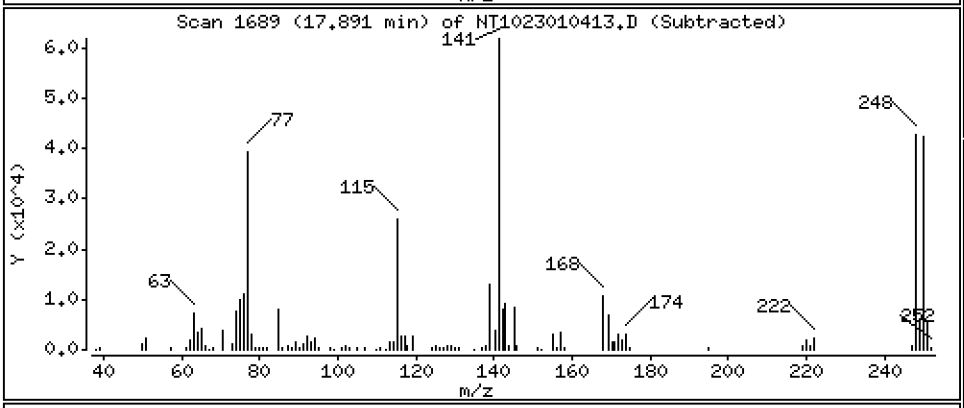
Column phase: ZB-5msi

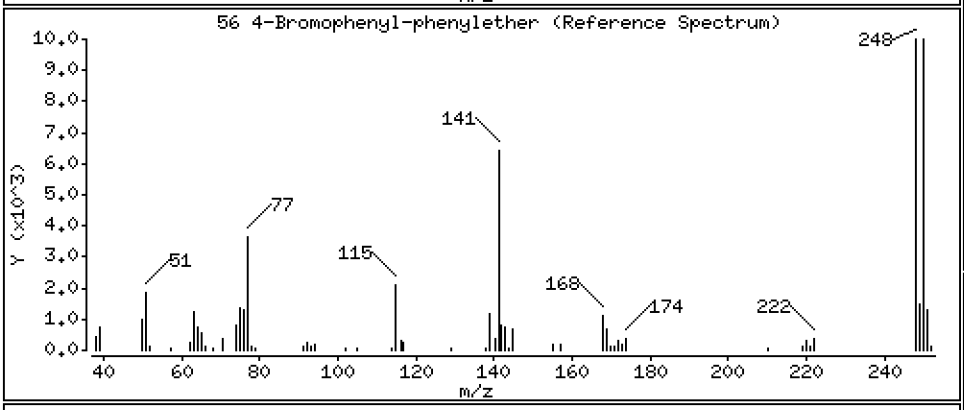
Column diameter: 0.25

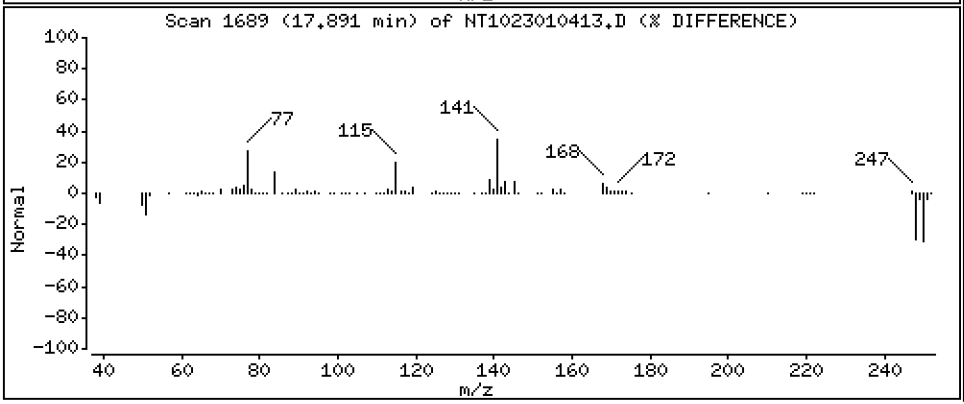
56 4-Bromophenyl-phenylether

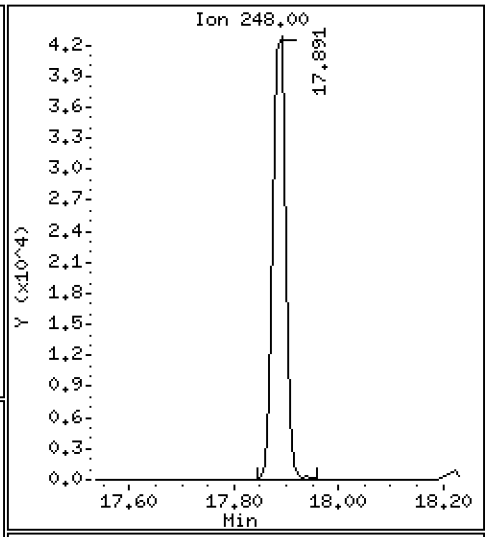
Concentration: 4.854 ug/mL

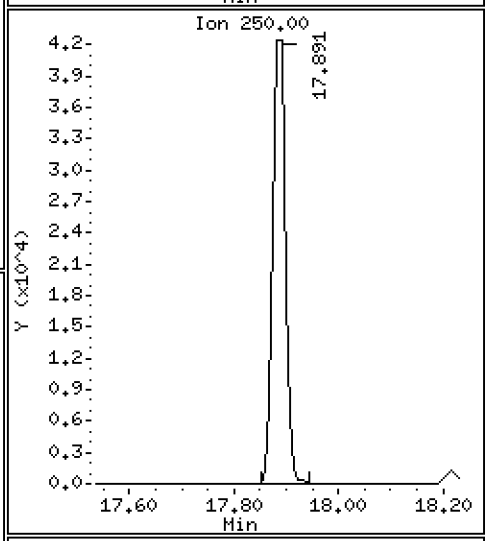


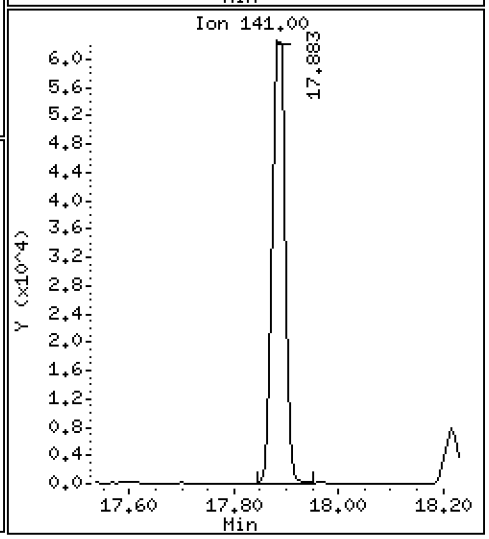












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

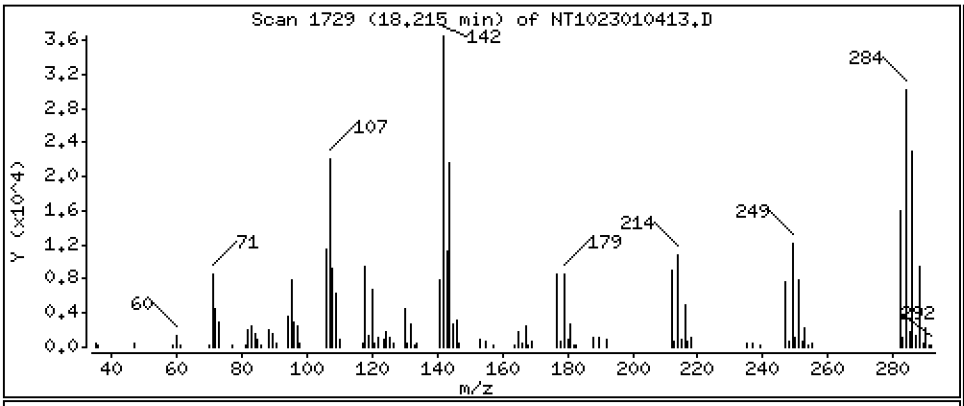
Operator: VTS

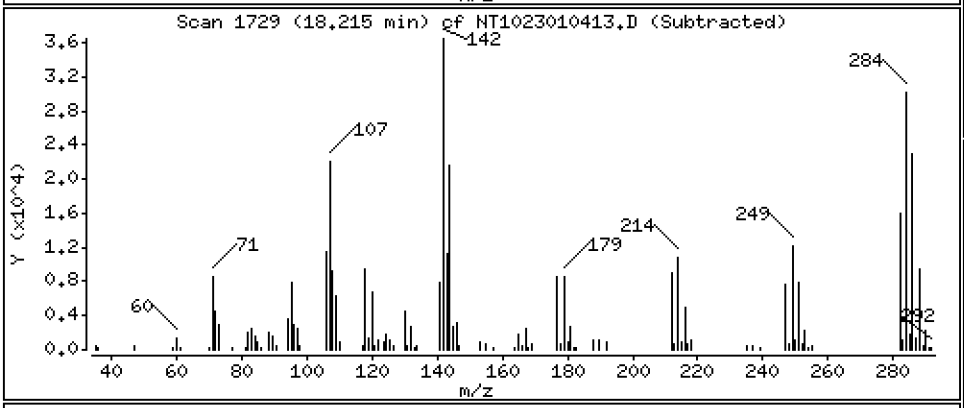
Column phase: ZB-5msi

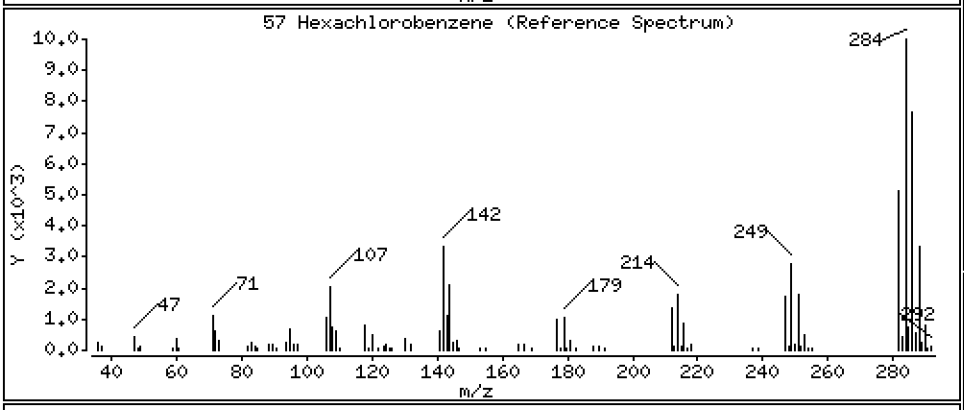
Column diameter: 0.25

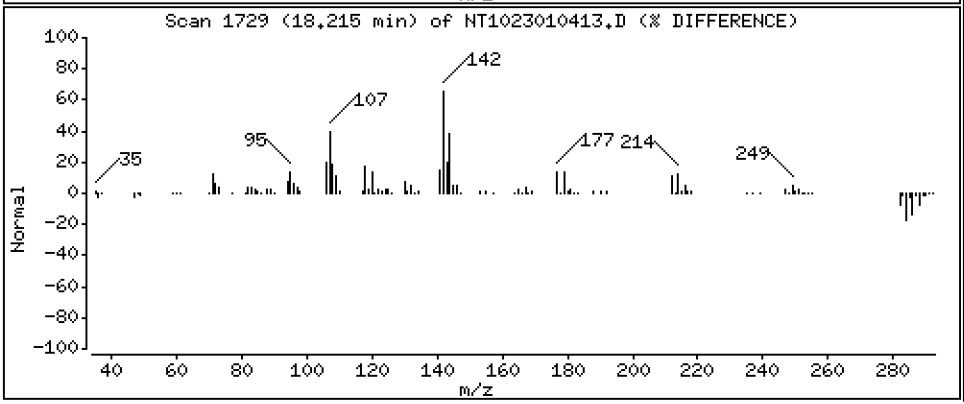
57 Hexachlorobenzene

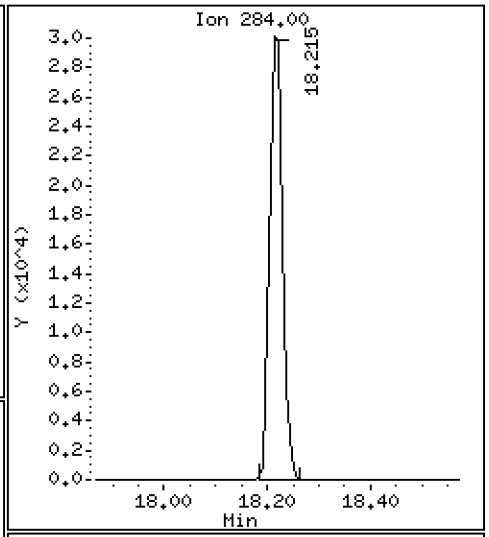
Concentration: 4.101 ug/mL

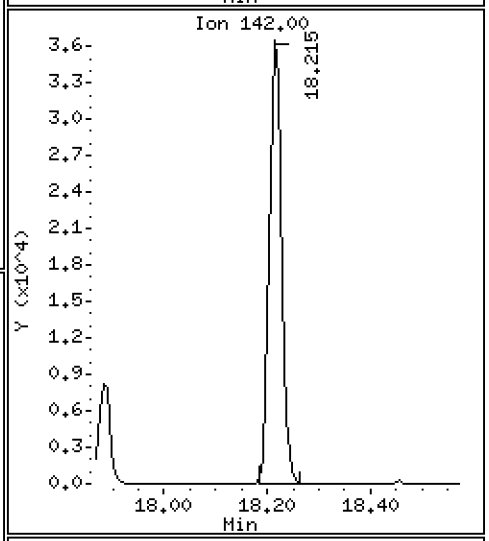


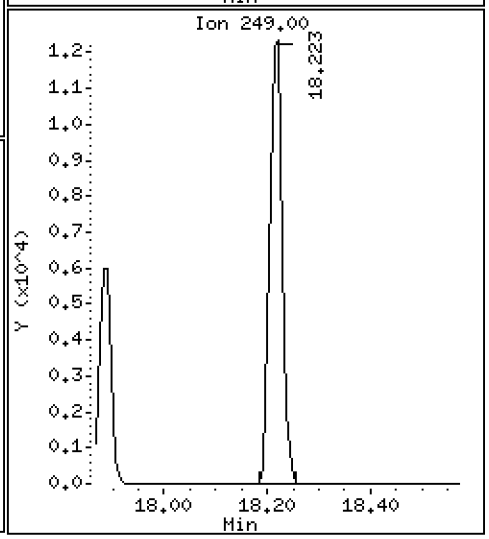












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

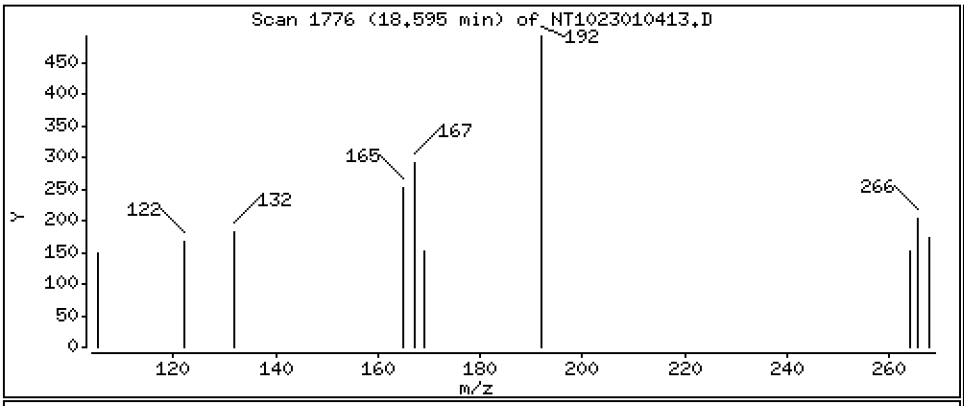
Operator: VTS

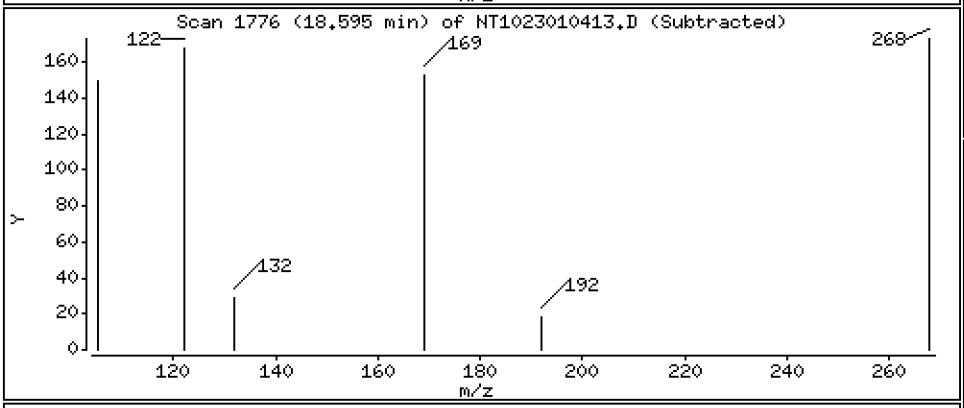
Column phase: ZB-5msi

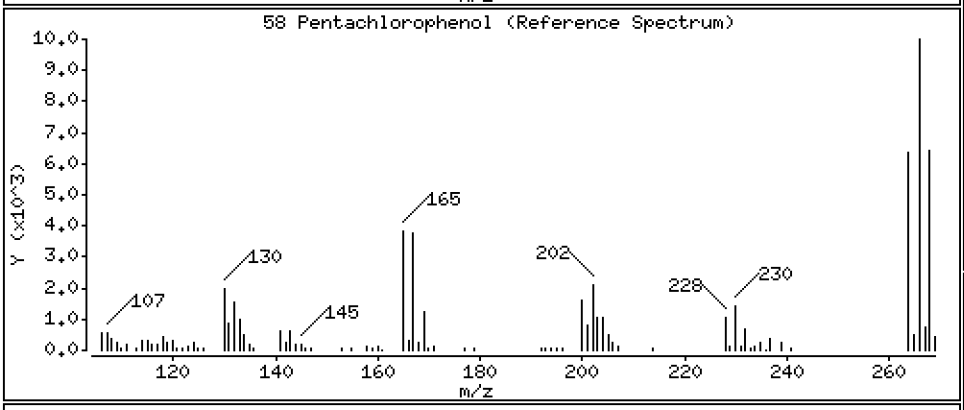
Column diameter: 0.25

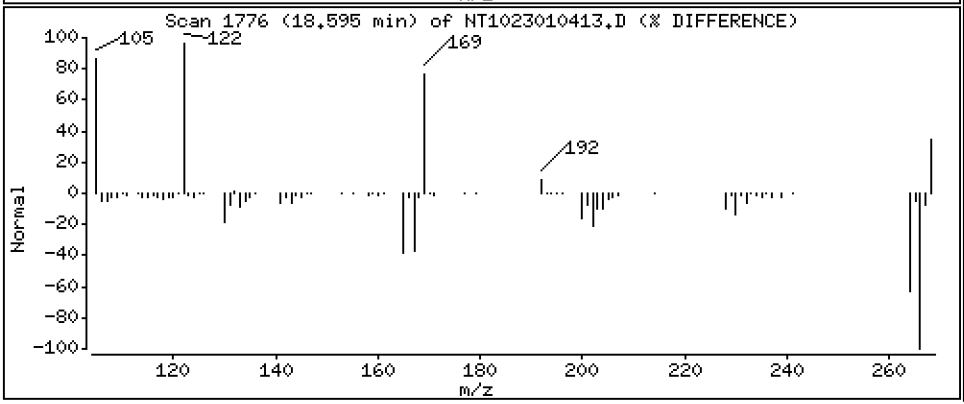
58 Pentachlorophenol

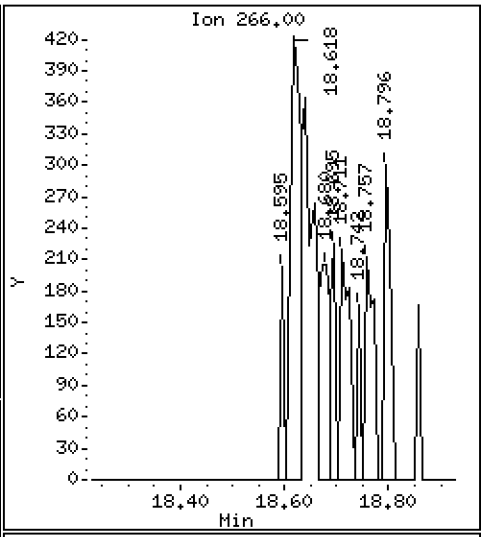
Concentration: 0.04497 ug/mL

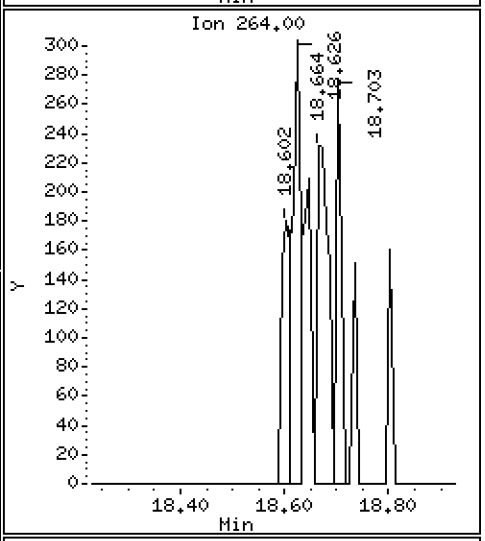


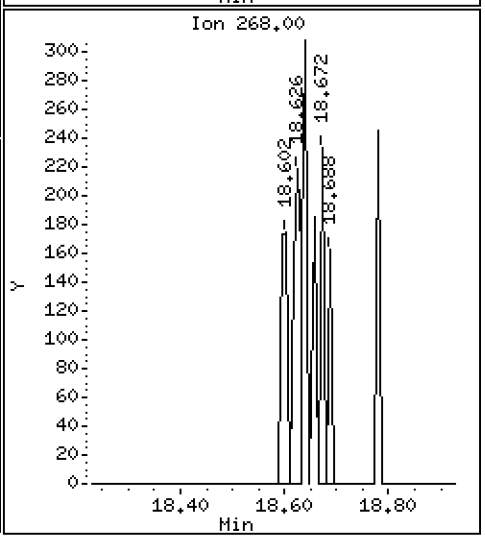












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

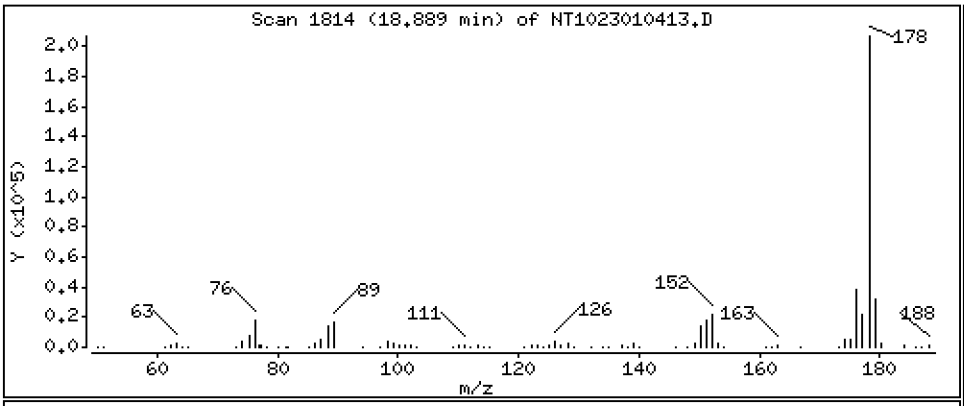
Operator: VTS

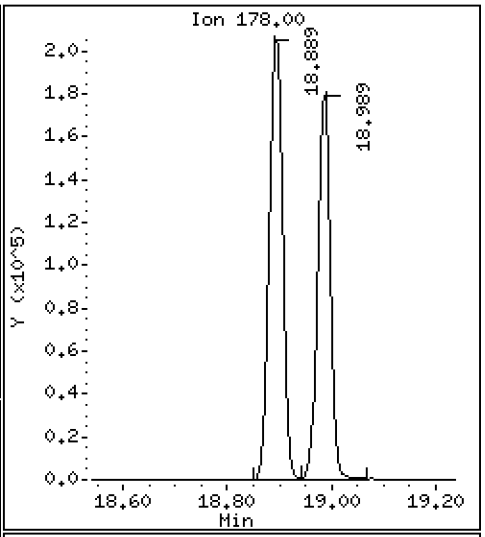
Column phase: ZB-5msi

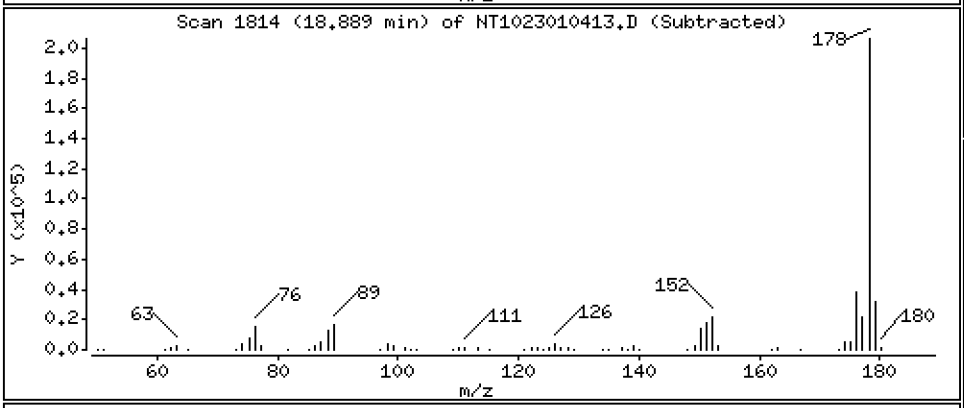
Column diameter: 0.25

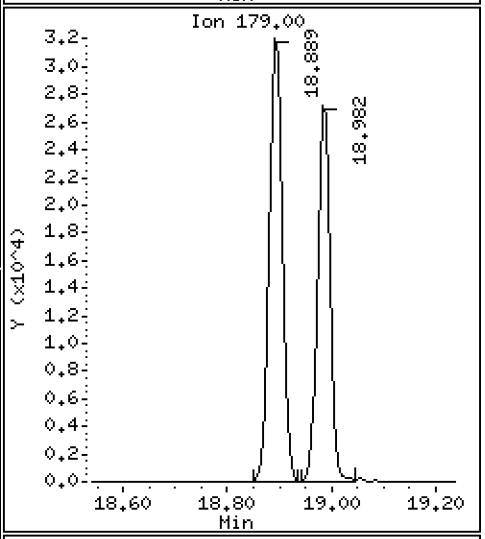
60 Phenanthrene

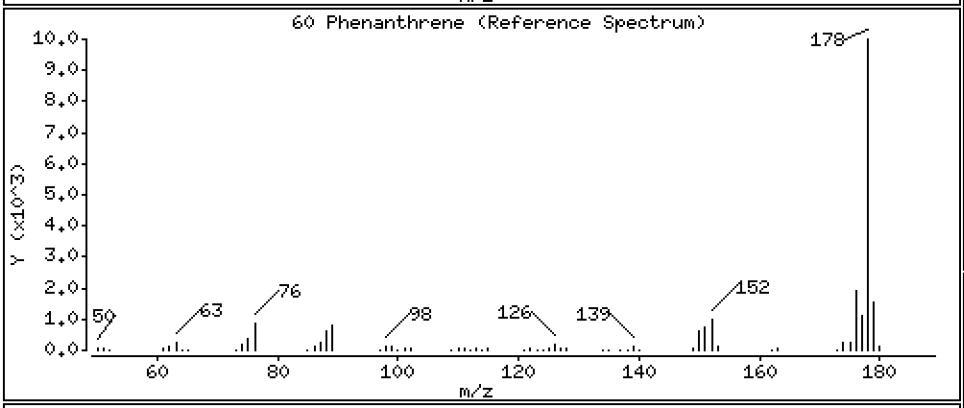
Concentration: 5.025 ug/mL

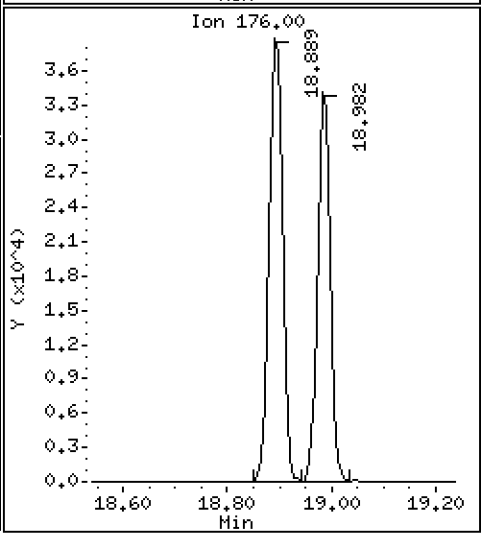


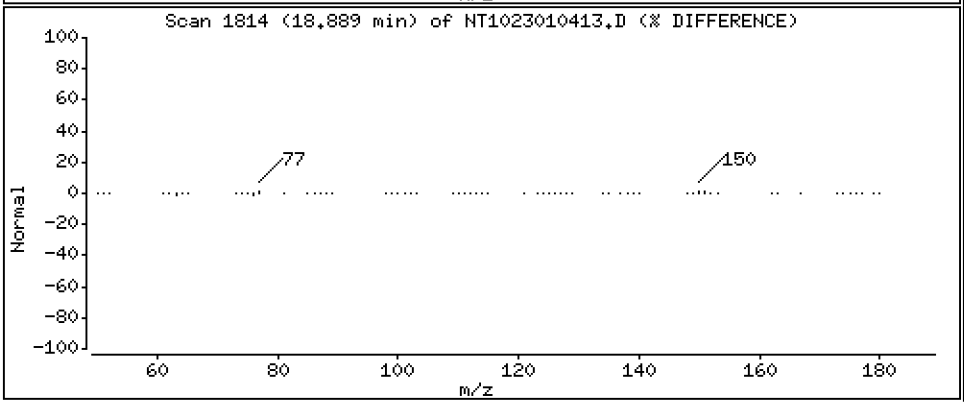












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

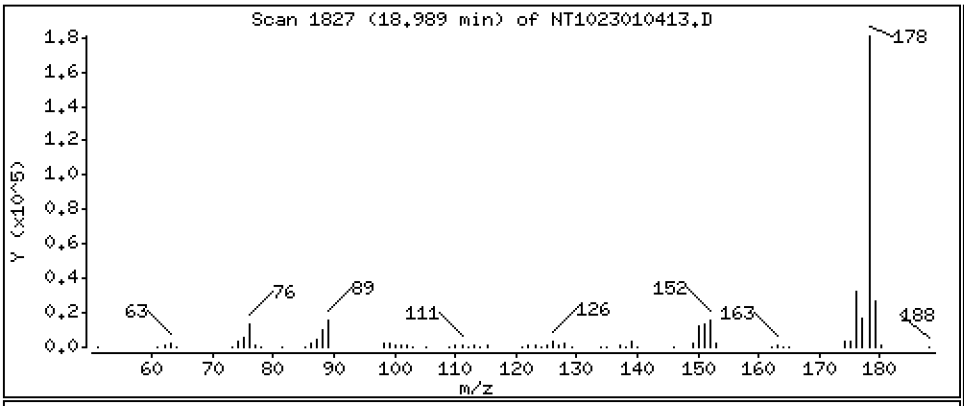
Operator: VTS

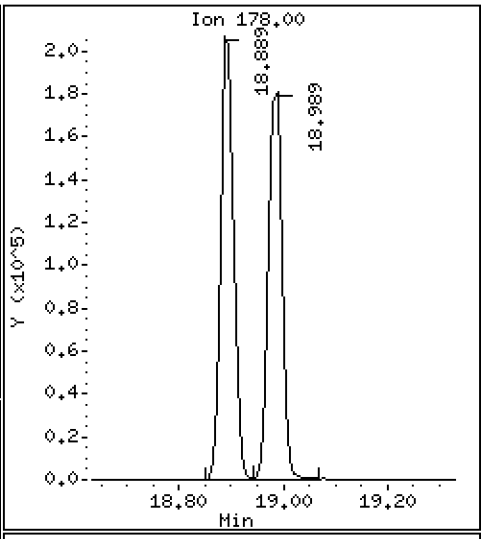
Column phase: ZB-5msi

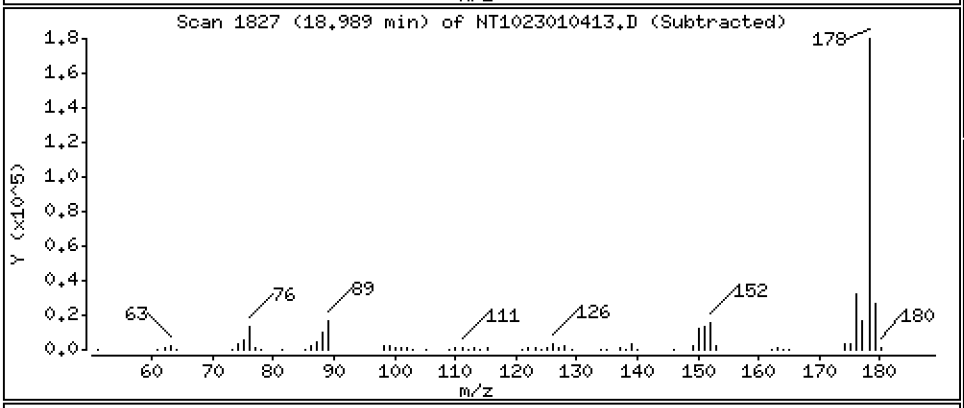
Column diameter: 0.25

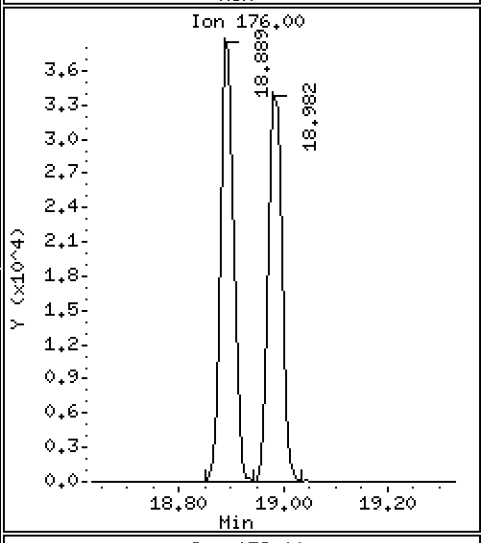
61 Anthracene

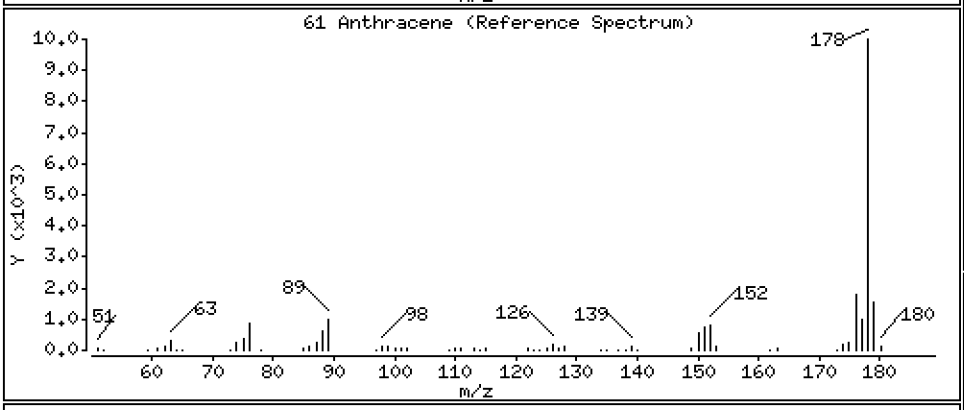
Concentration: 4.542 ug/mL

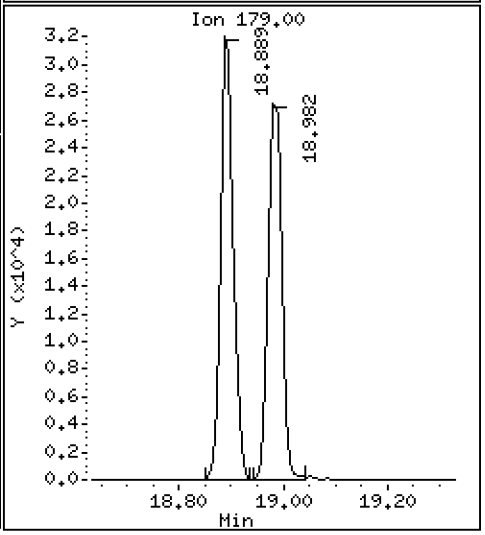


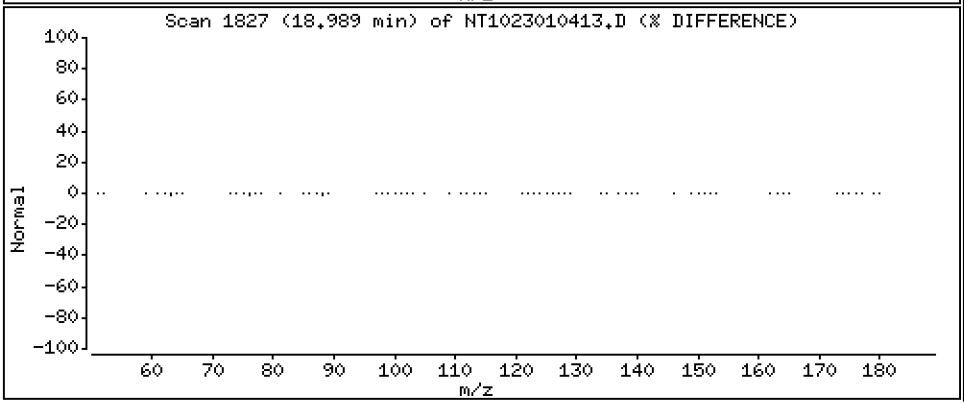












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

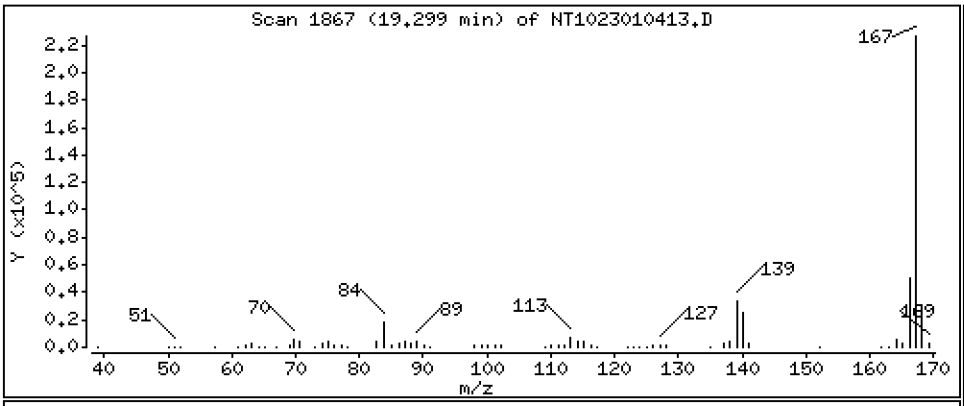
Operator: VTS

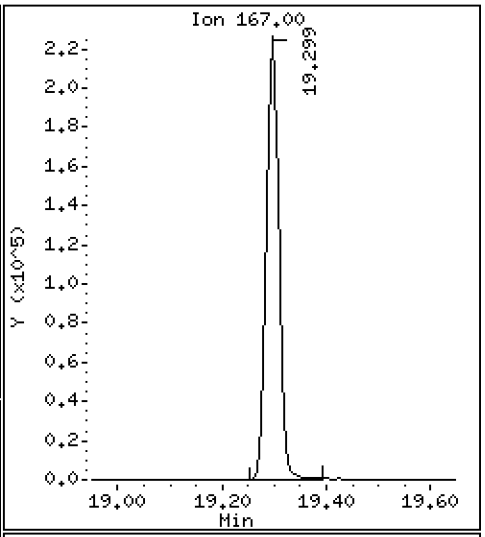
Column phase: ZB-5msi

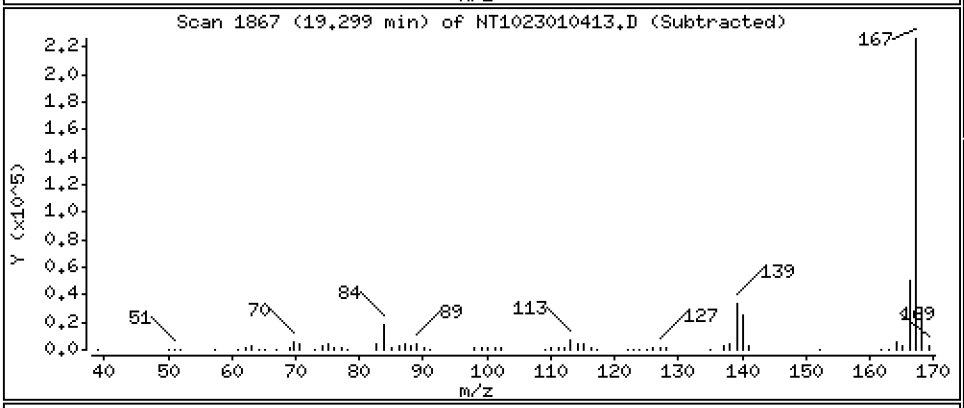
Column diameter: 0.25

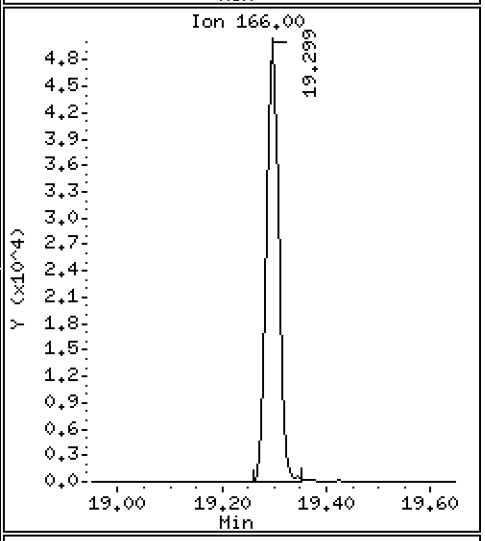
62 Carbazole

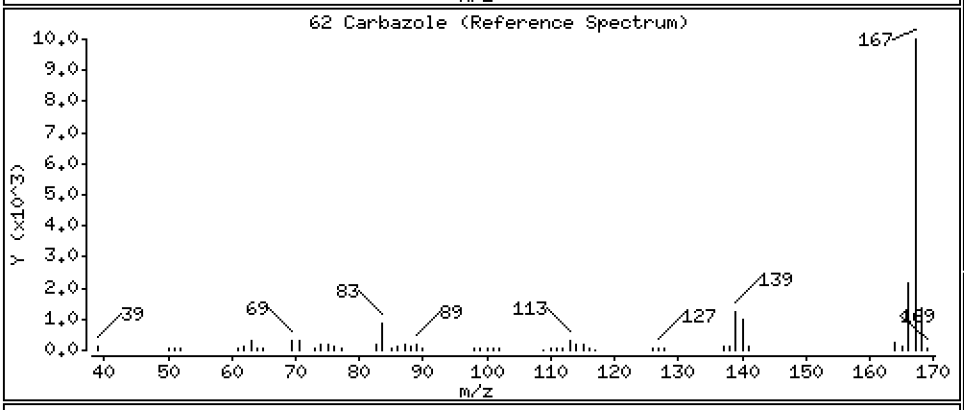
Concentration: 4.823 ug/mL

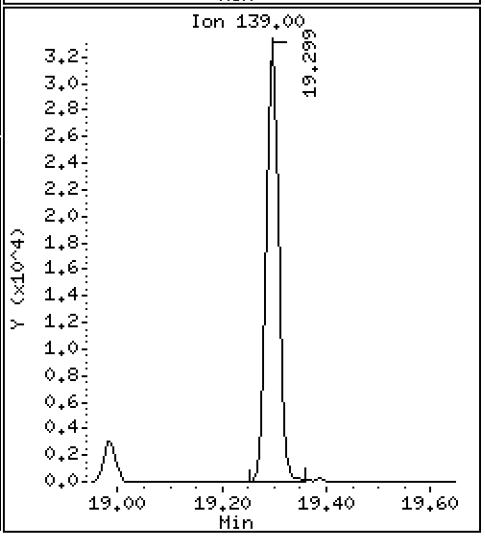


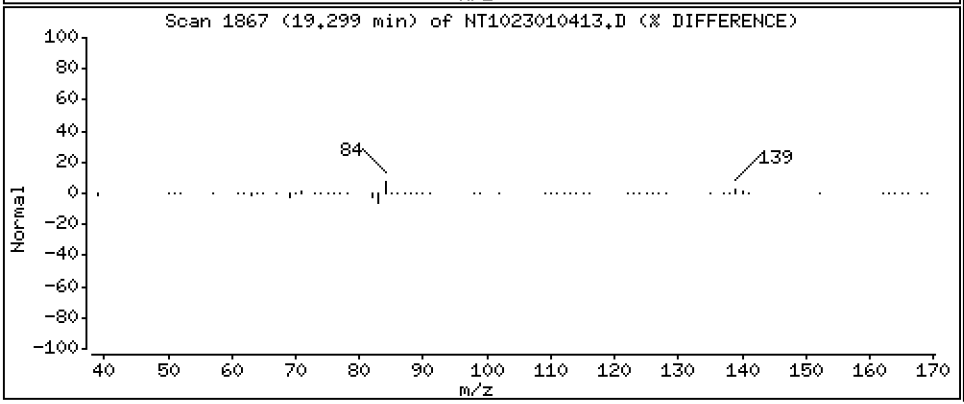












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

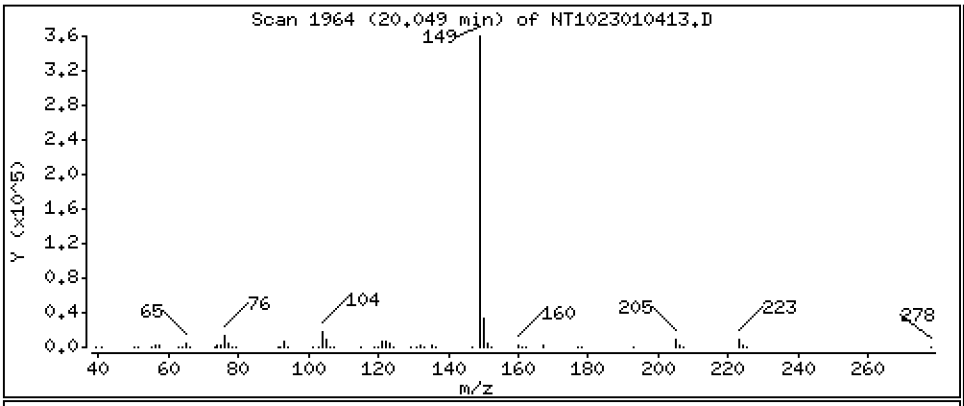
Operator: VTS

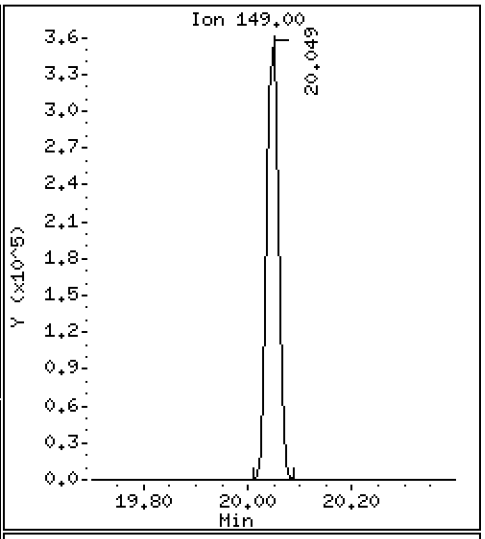
Column phase: ZB-5msi

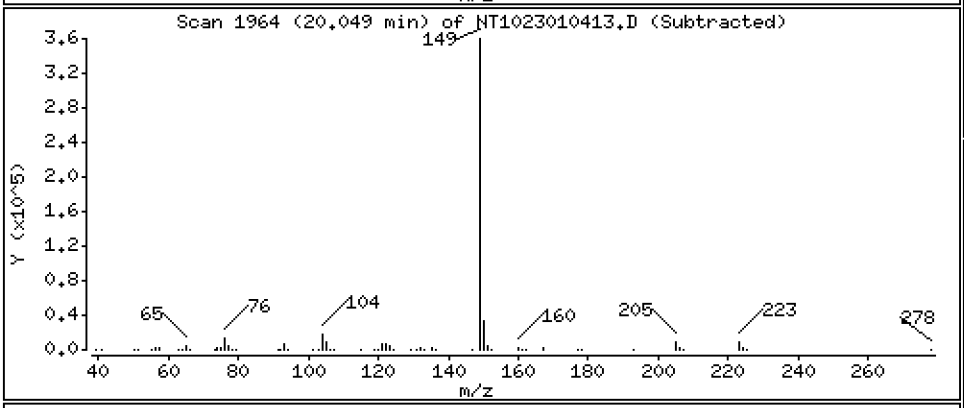
Column diameter: 0.25

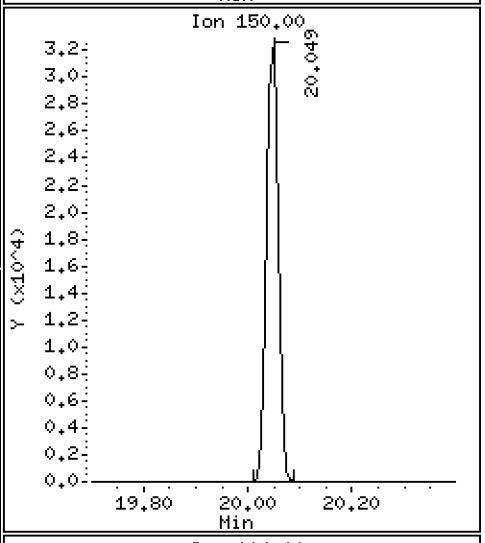
63 Di-n-butylphthalate

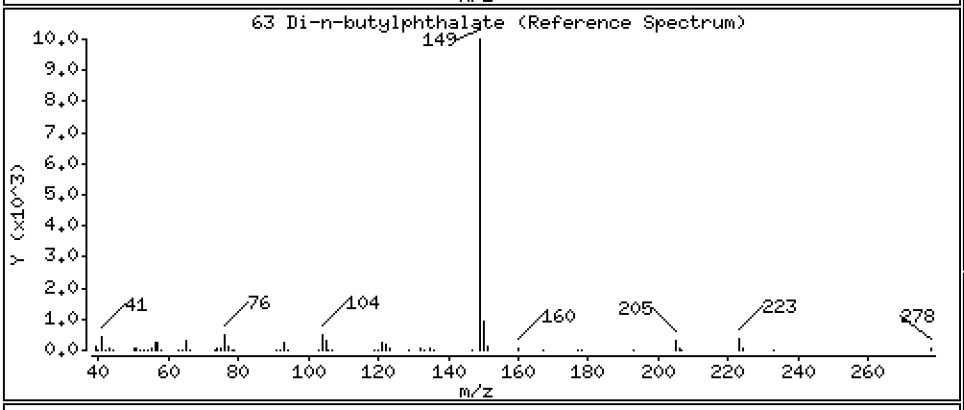
Concentration: 5.130 ug/mL

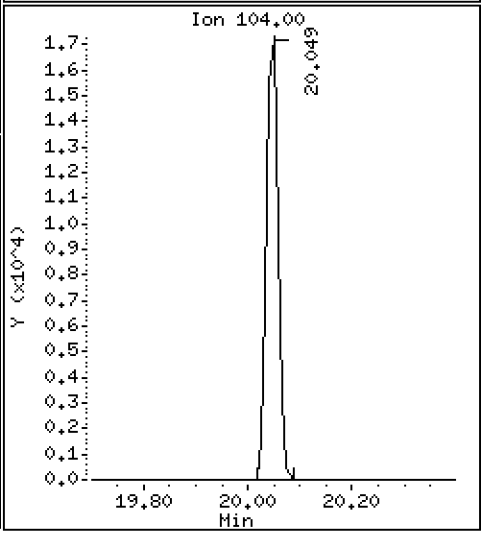


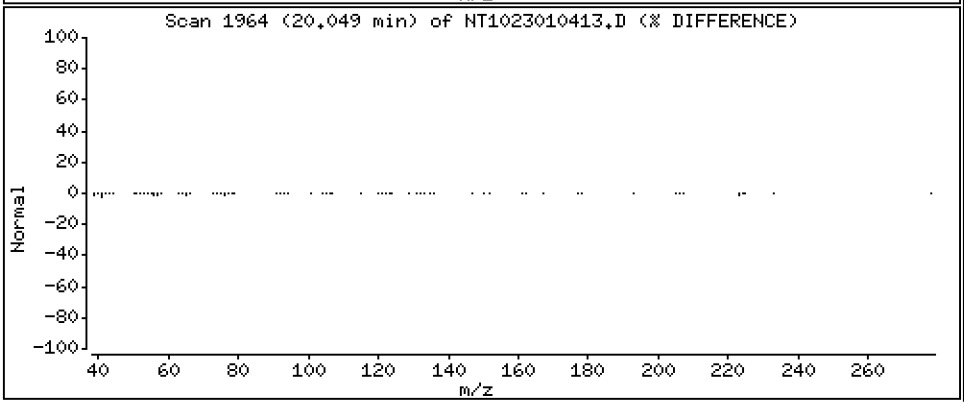












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

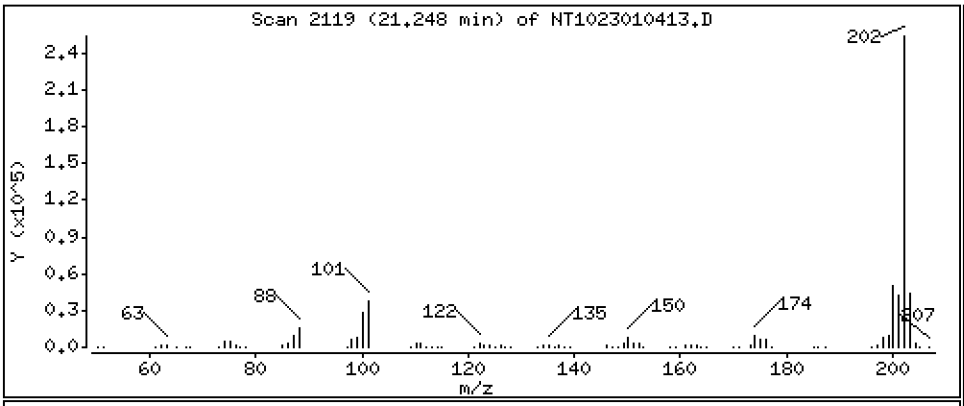
Operator: VTS

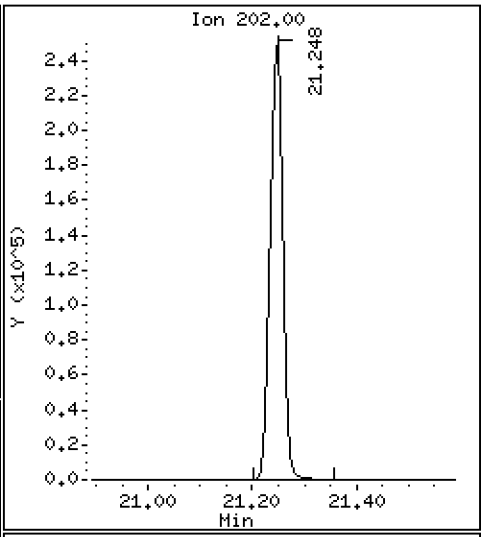
Column phase: ZB-5msi

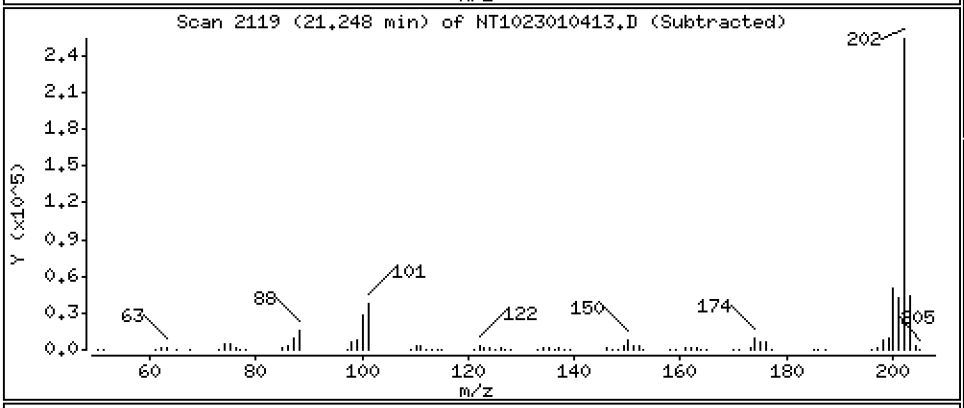
Column diameter: 0.25

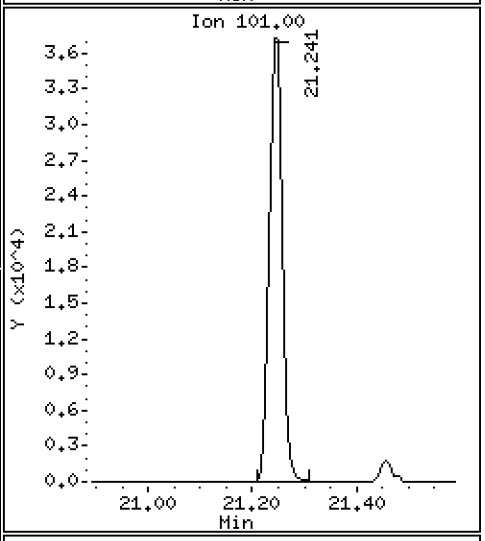
64 Fluoranthene

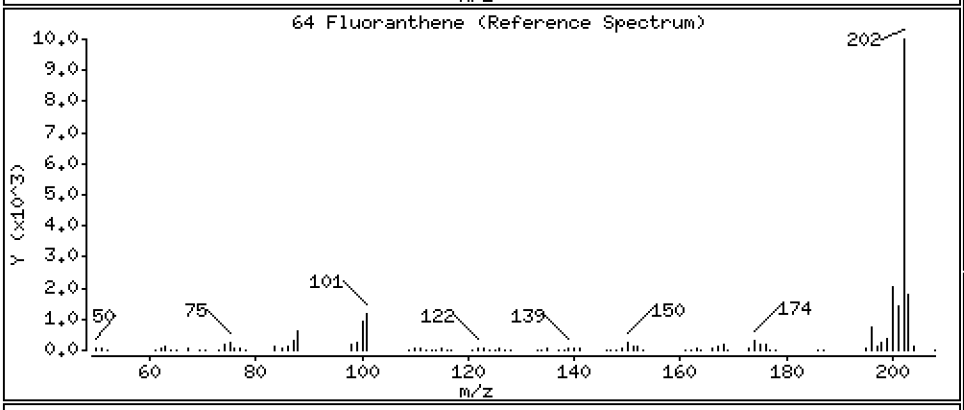
Concentration: 5.425 ug/mL

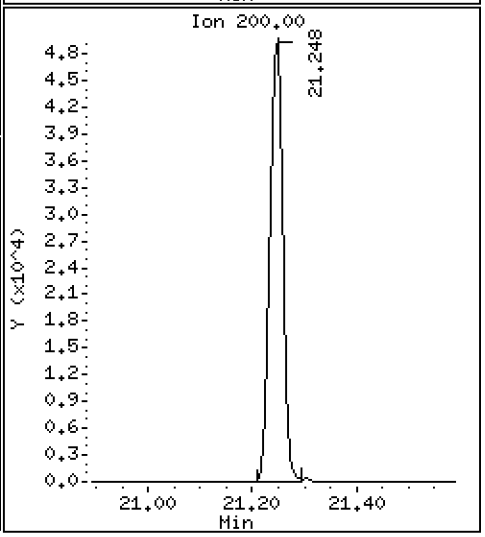


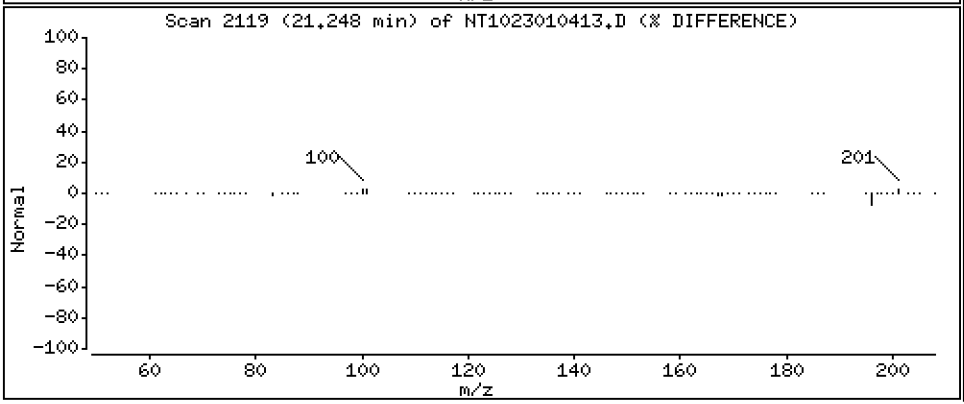












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

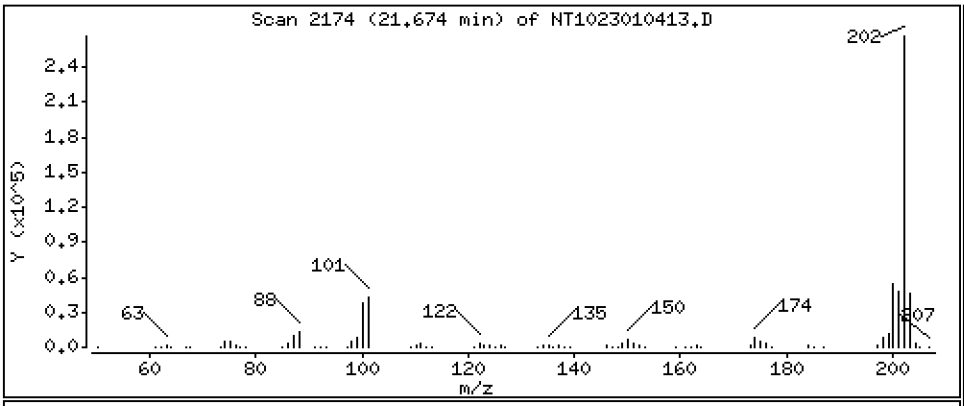
Operator: VTS

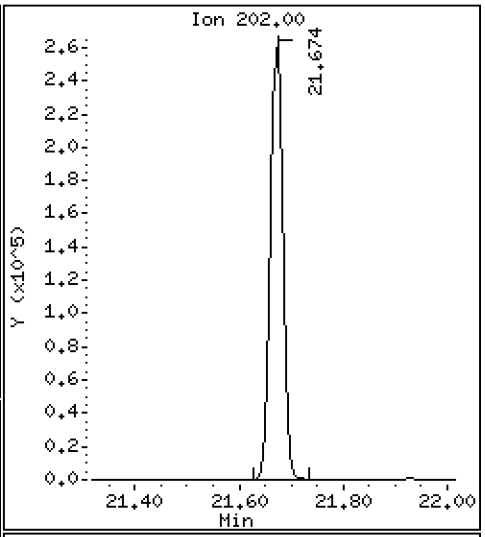
Column phase: ZB-5msi

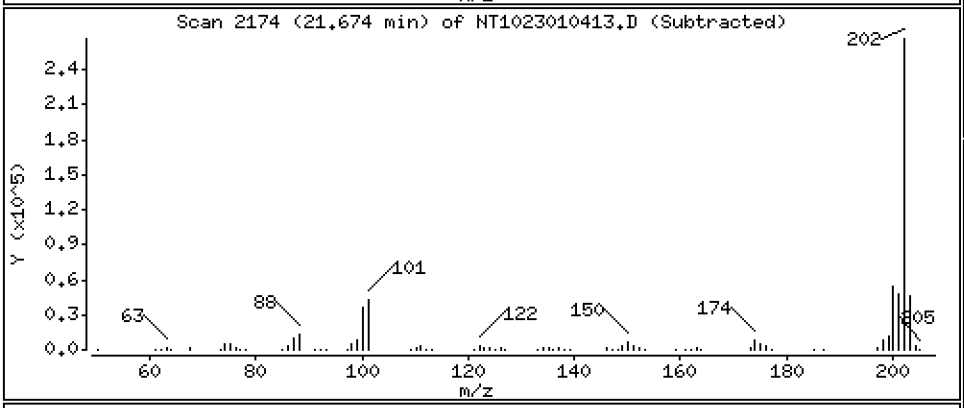
Column diameter: 0.25

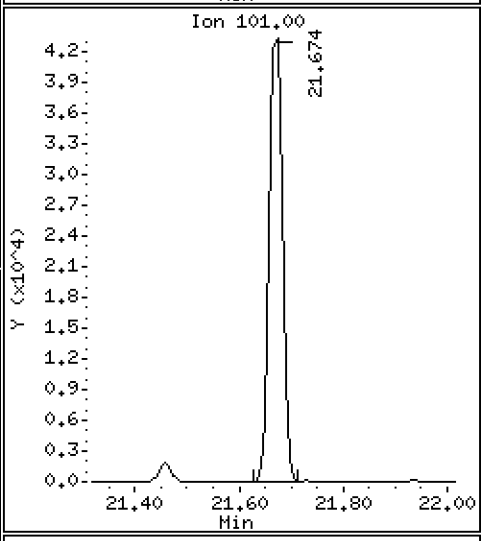
65 Pyrene

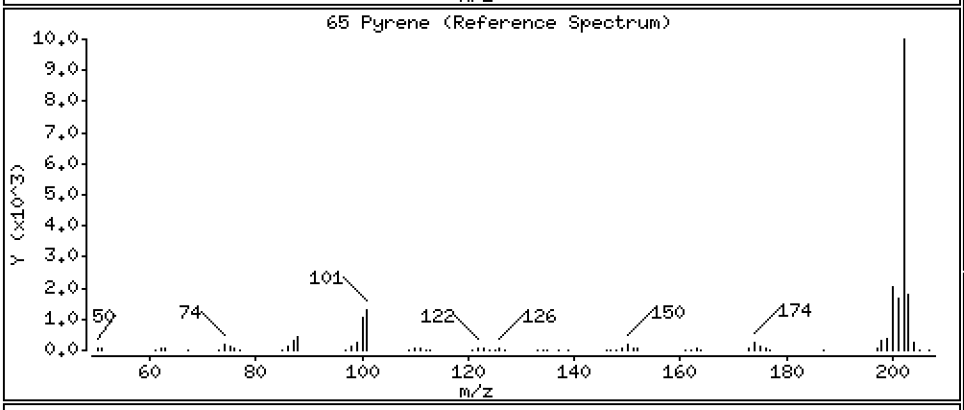
Concentration: 5.438 ug/mL

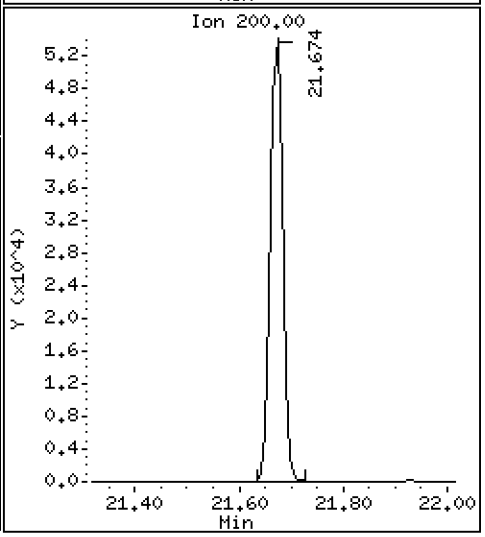


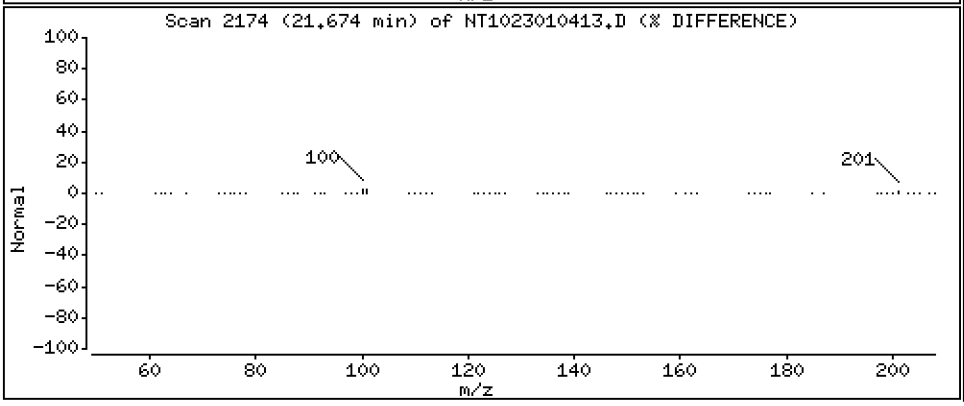












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

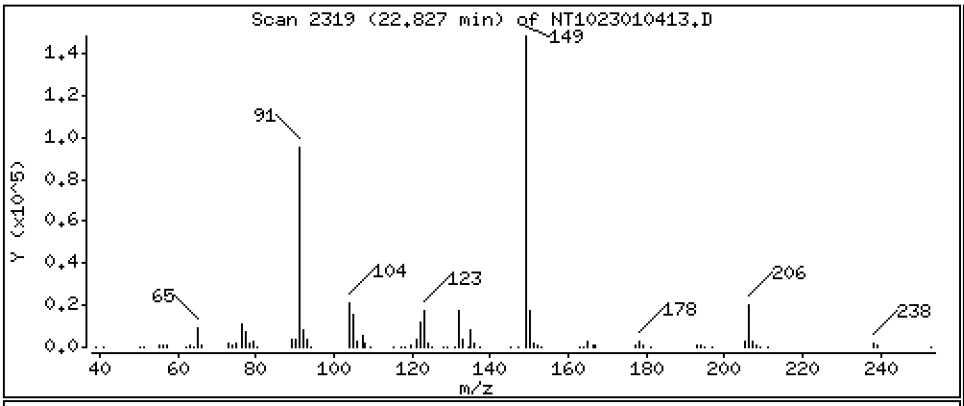
Operator: VTS

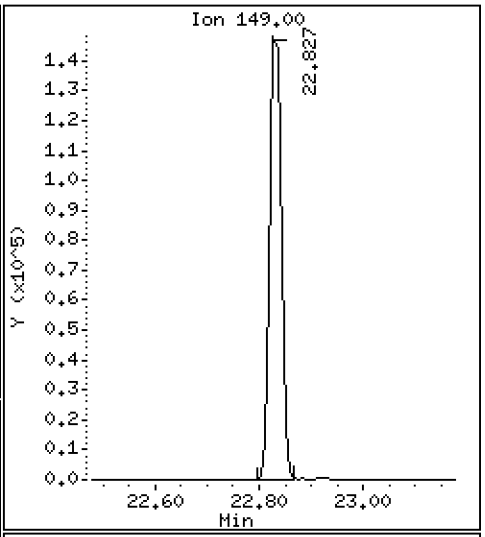
Column phase: ZB-5msi

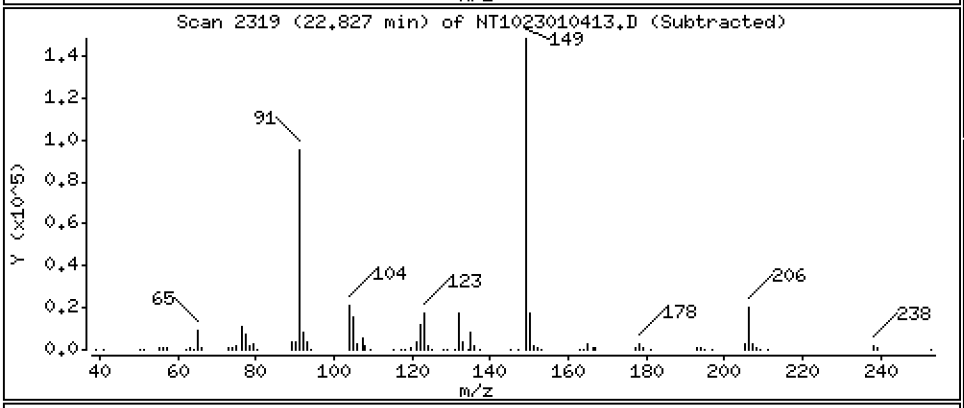
Column diameter: 0.25

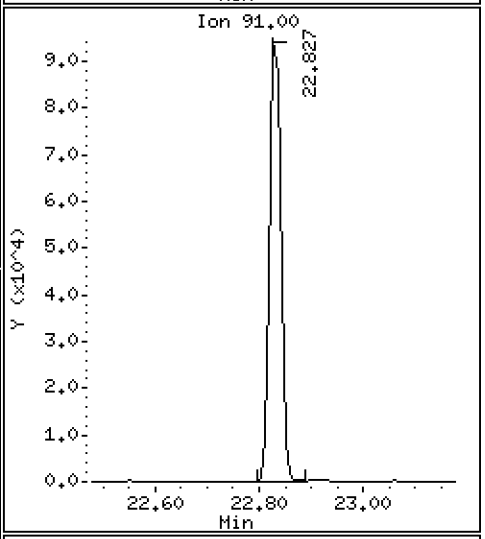
67 Butylbenzylphthalate

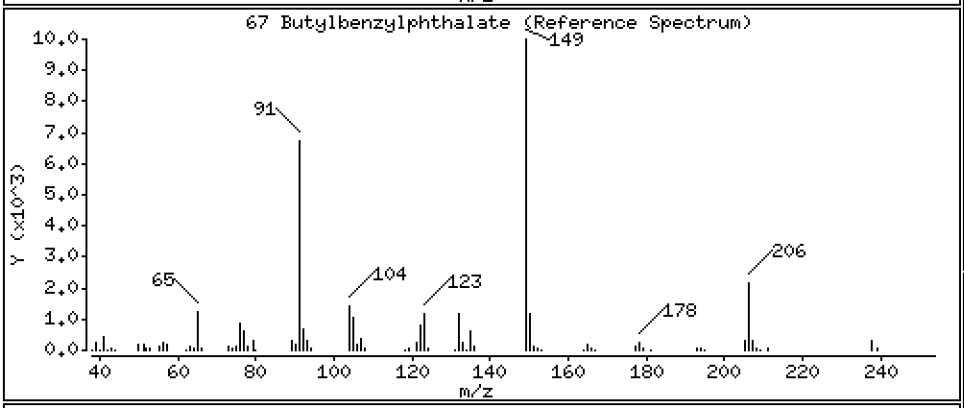
Concentration: 5.293 ug/mL

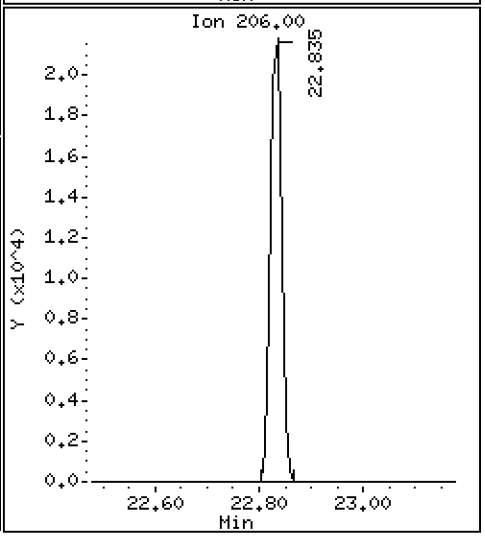


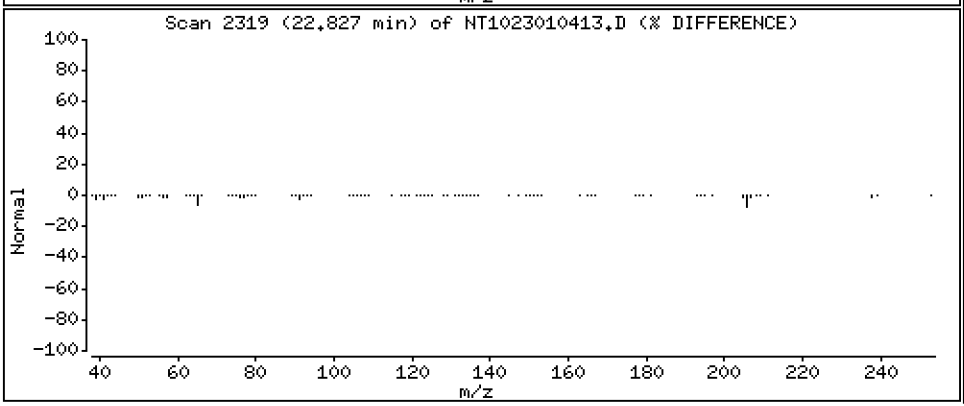












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

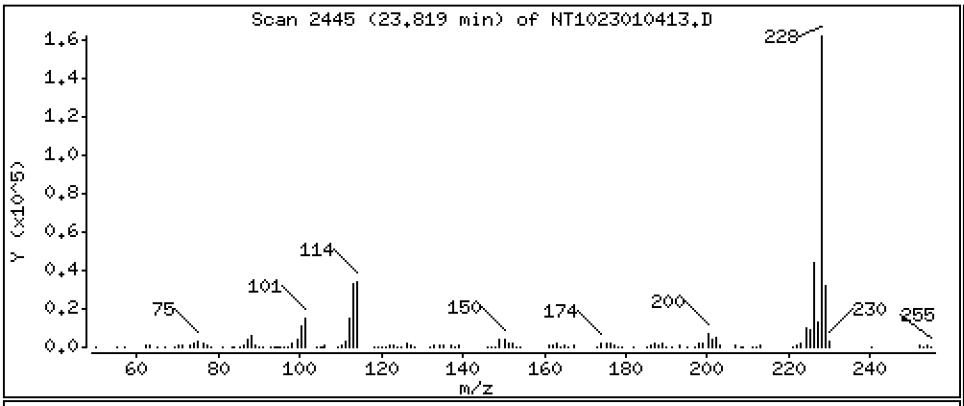
Operator: VTS

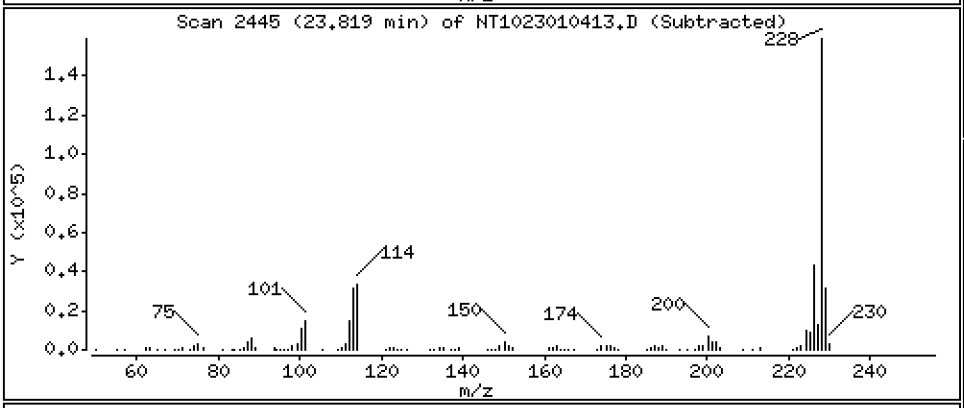
Column phase: ZB-5msi

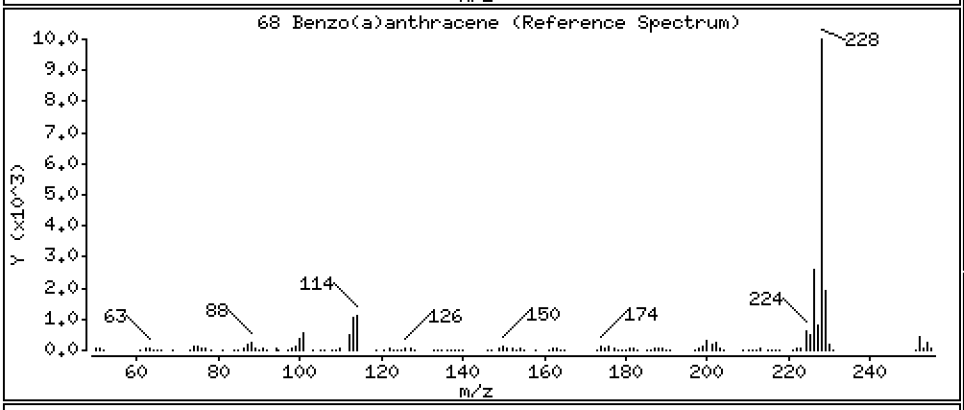
Column diameter: 0.25

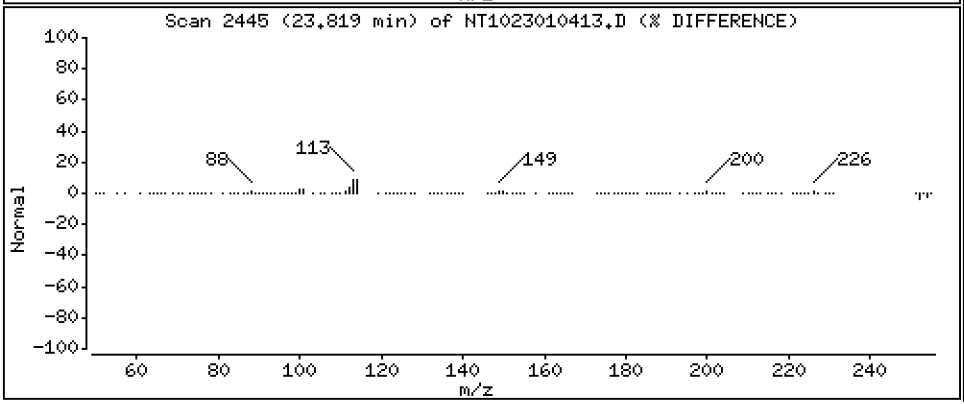
68 Benzo(a)anthracene

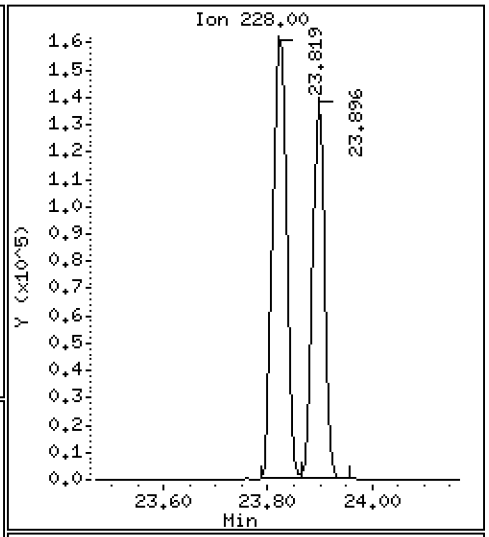
Concentration: 5.367 ug/mL

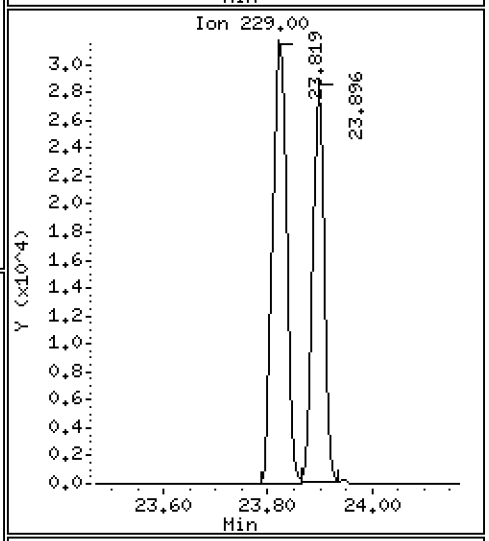


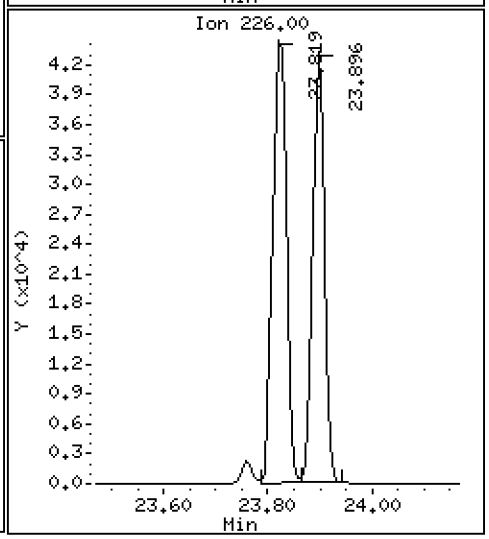












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

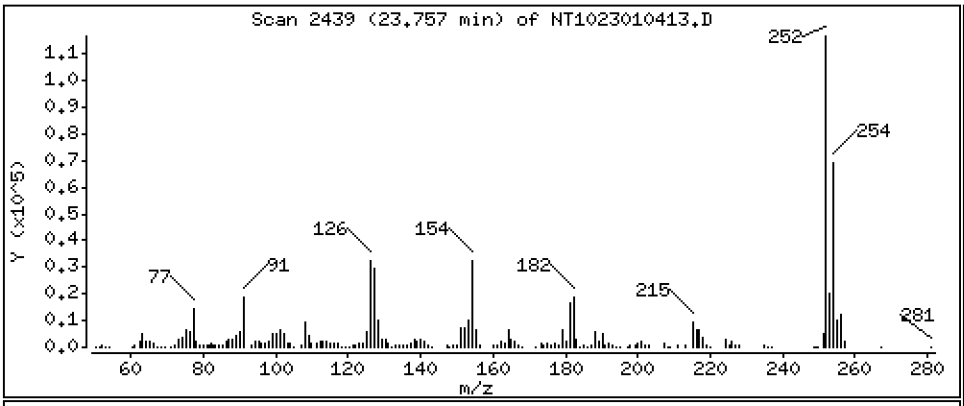
Operator: VTS

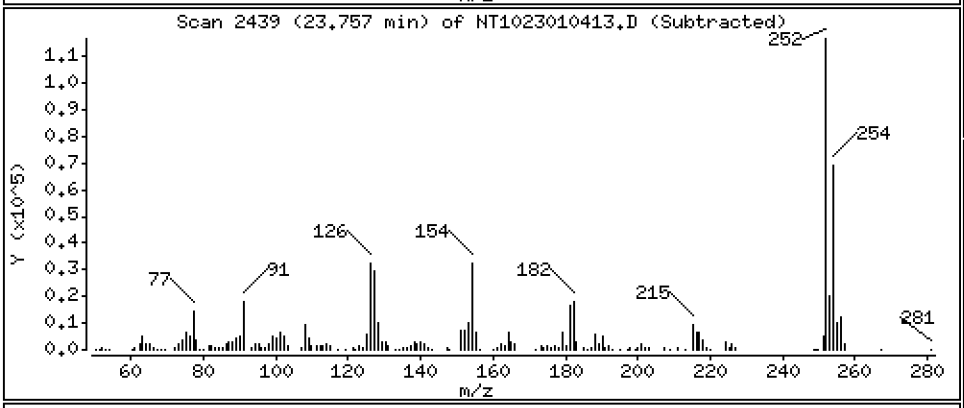
Column phase: ZB-5msi

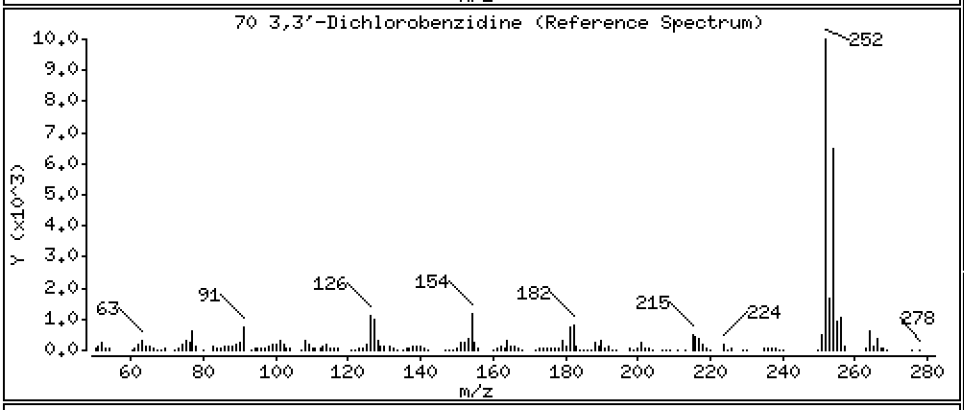
Column diameter: 0.25

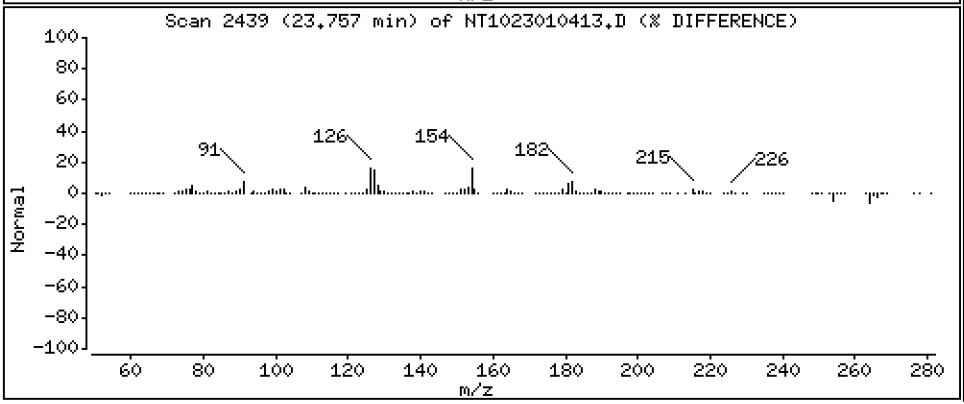
70 3,3'-Dichlorobenzidine

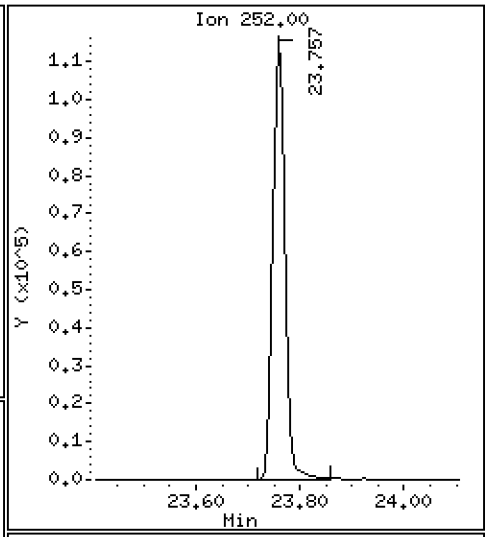
Concentration: 10.55 ug/mL

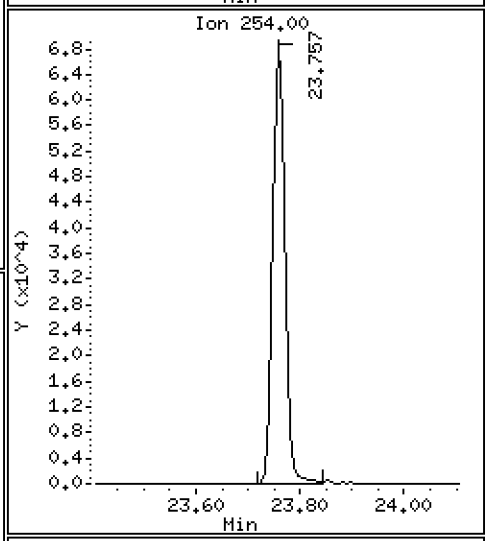


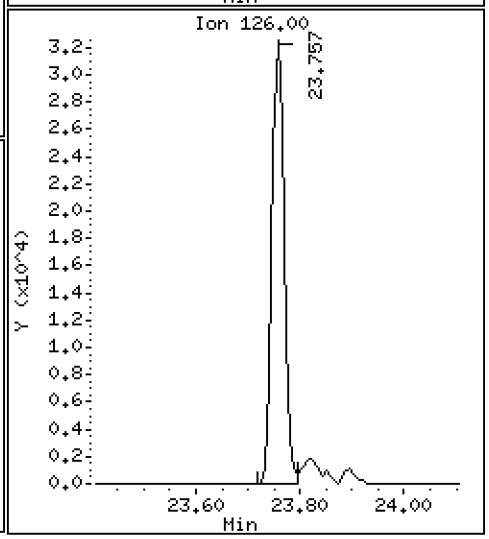












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

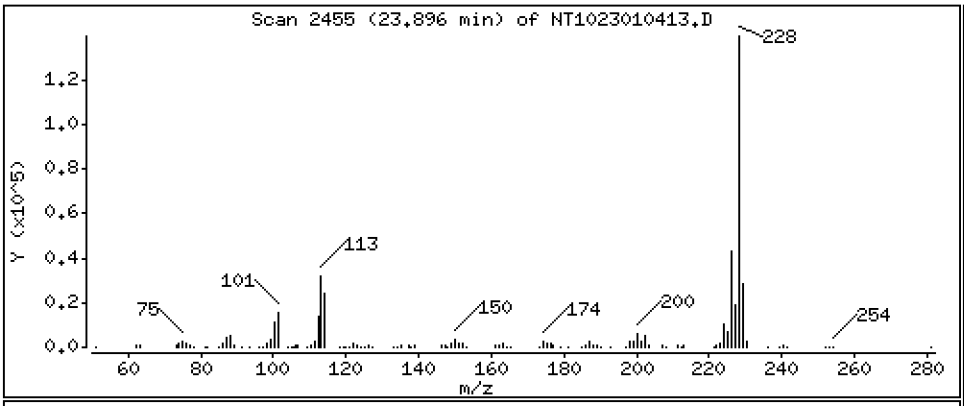
Operator: VTS

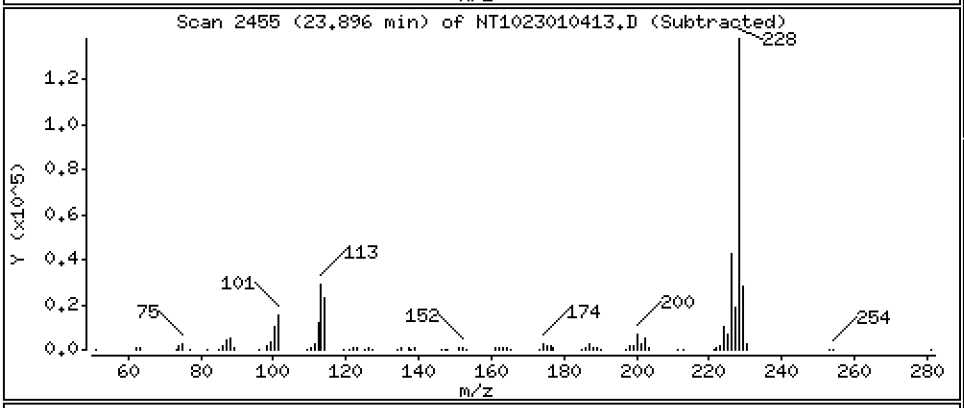
Column phase: ZB-5msi

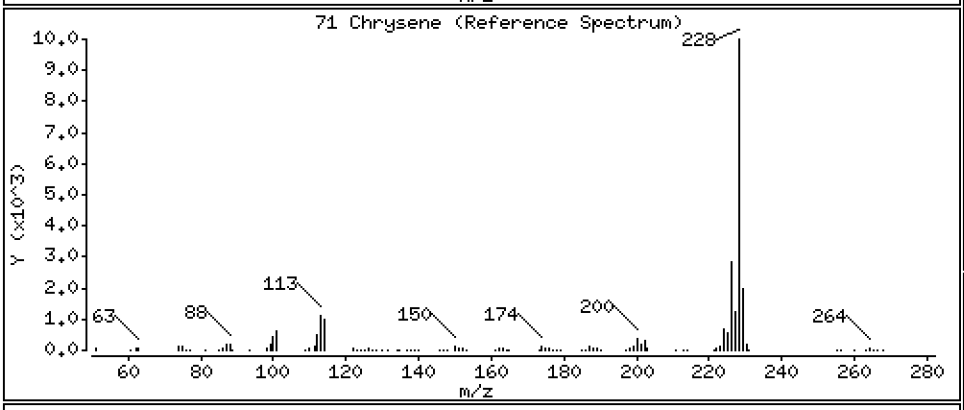
Column diameter: 0.25

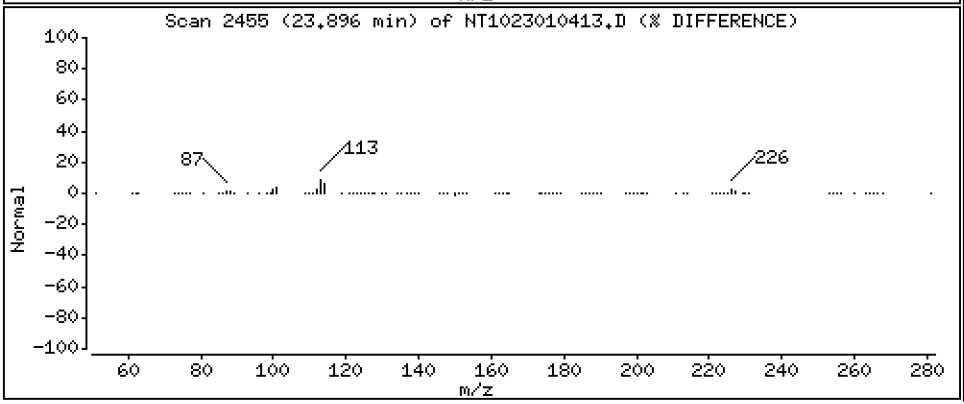
71 Chrysene

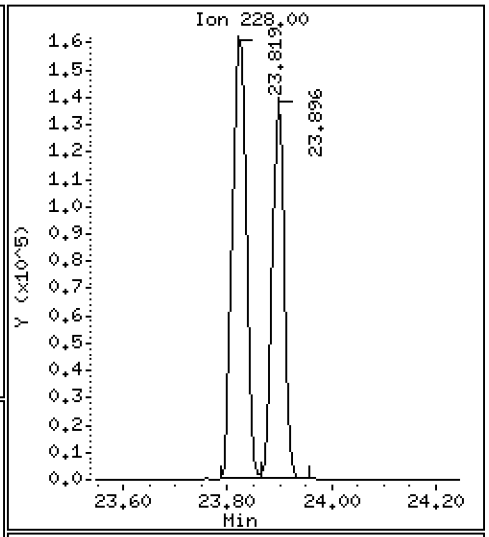
Concentration: 4.662 ug/mL

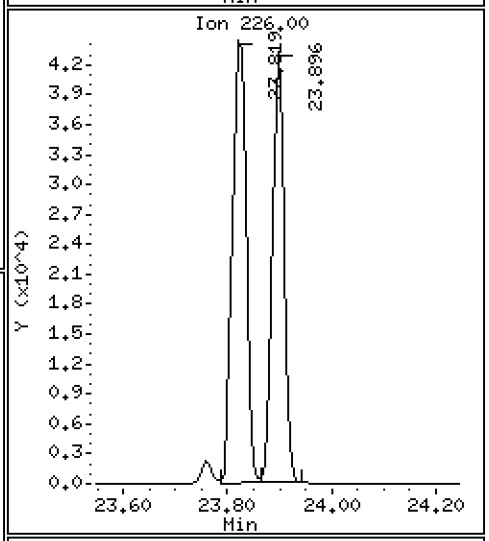


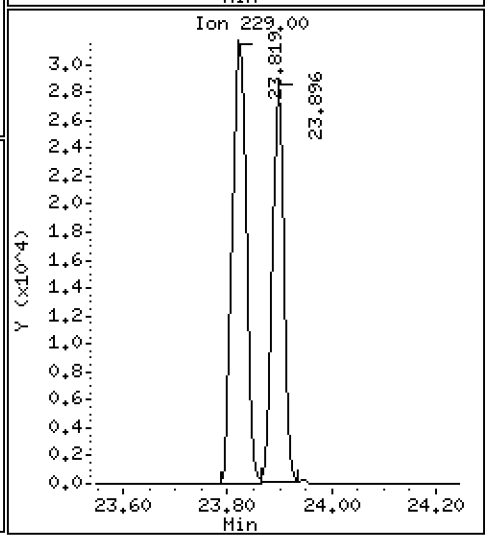












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

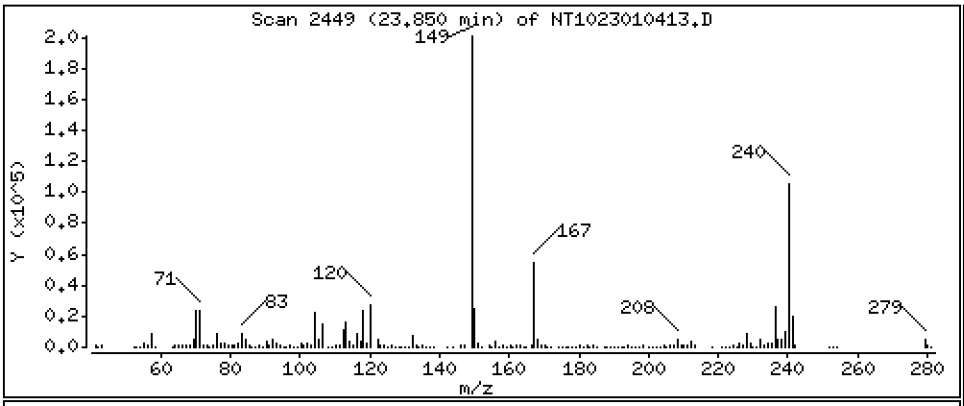
Operator: VTS

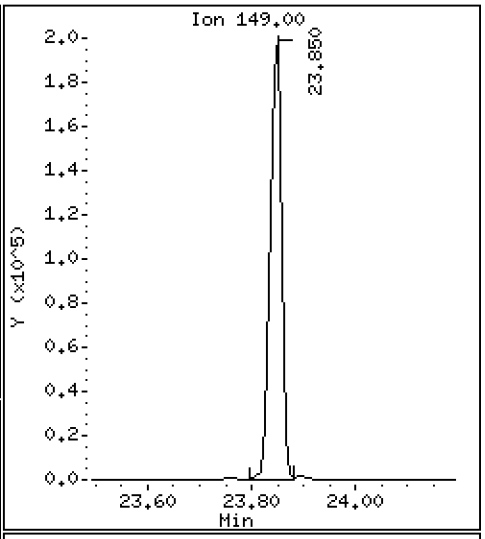
Column phase: ZB-5msi

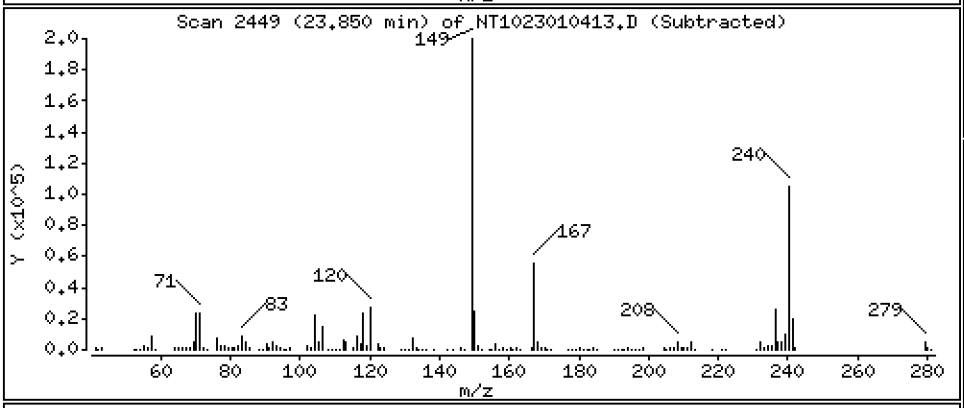
Column diameter: 0.25

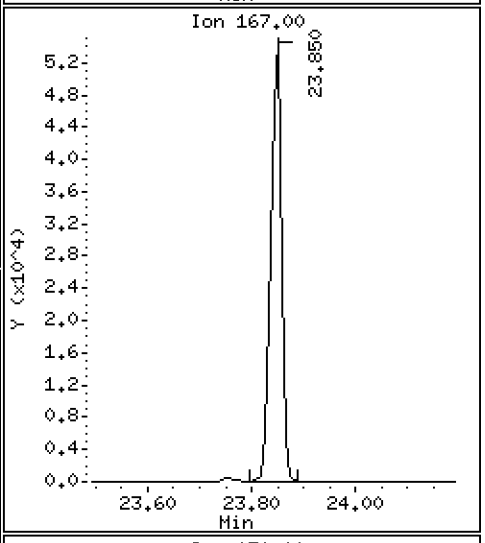
72 bis(2-Ethylhexyl)phthalate

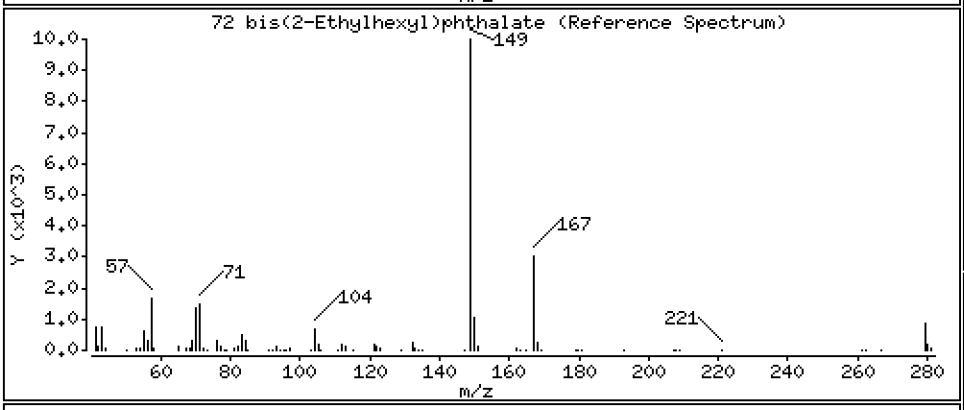
Concentration: 5.281 ug/mL

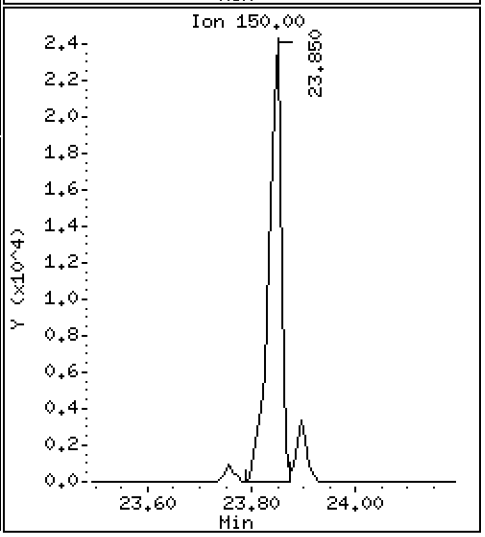


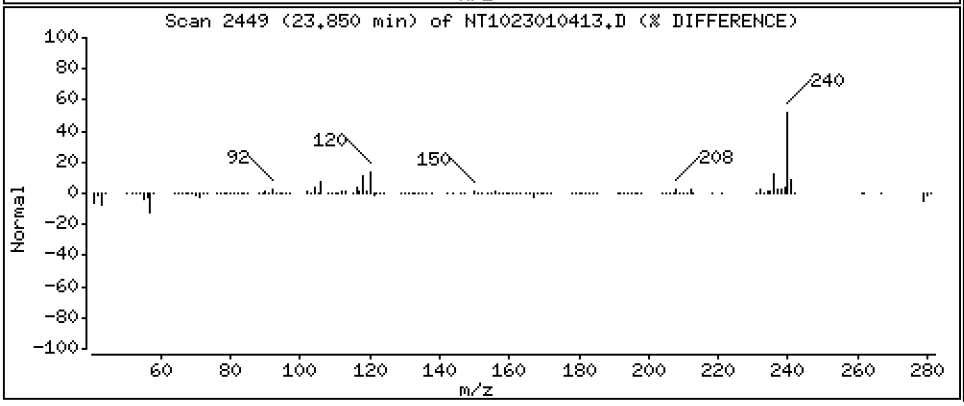












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

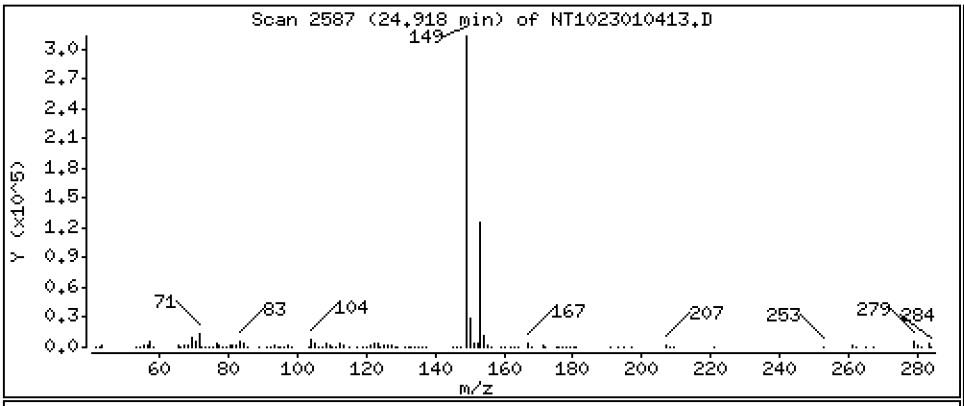
Operator: VTS

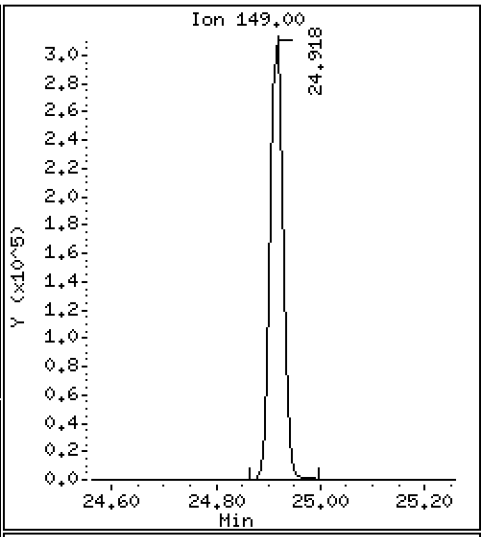
Column phase: ZB-5msi

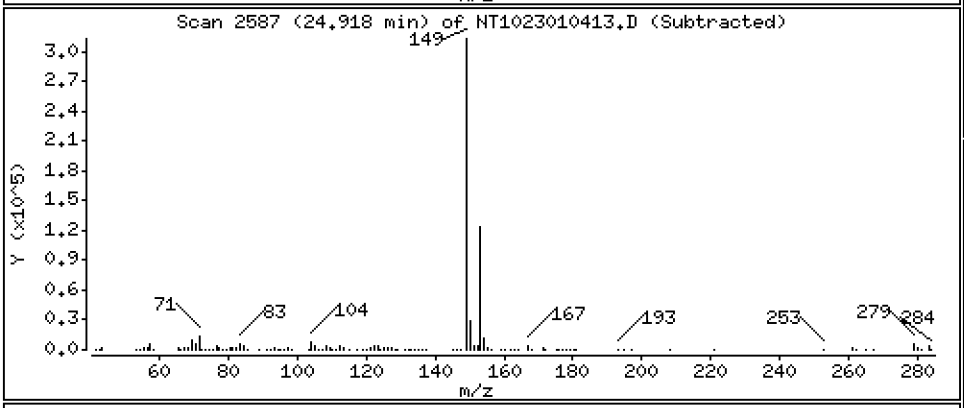
Column diameter: 0.25

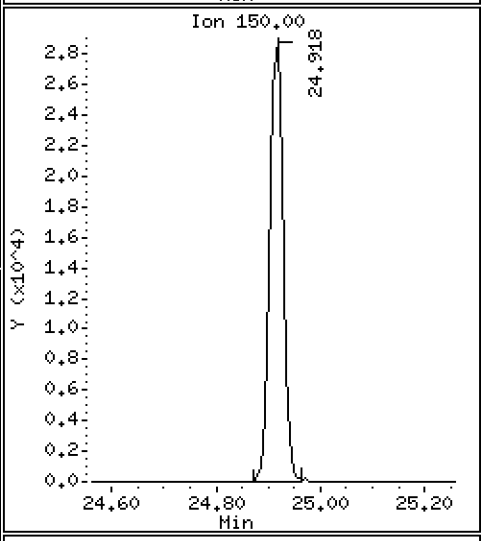
73 Di-n-octylphthalate

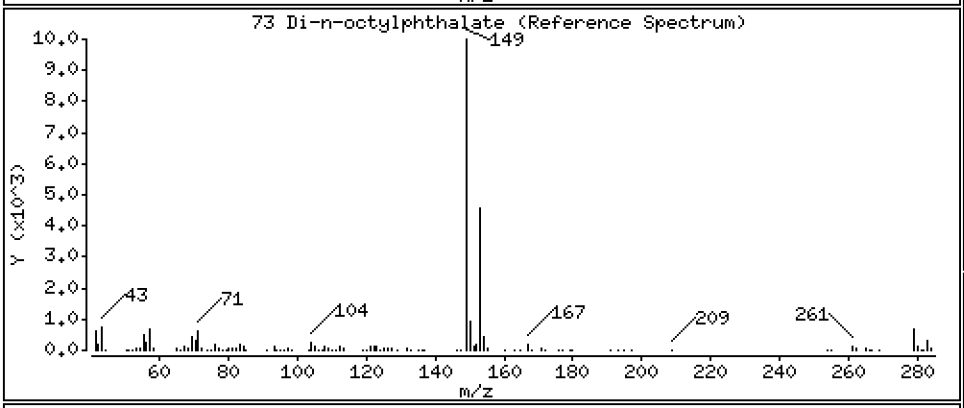
Concentration: 5.052 ug/mL

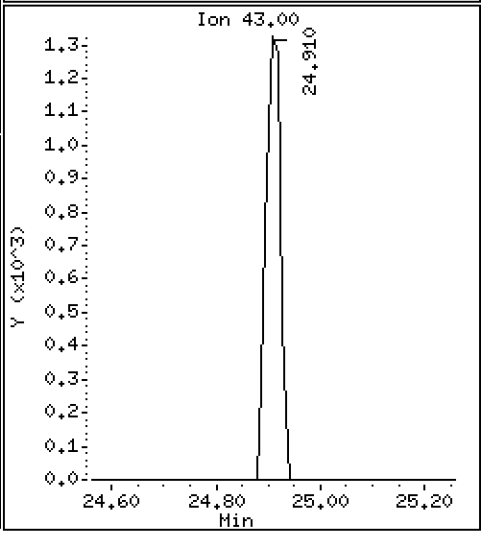


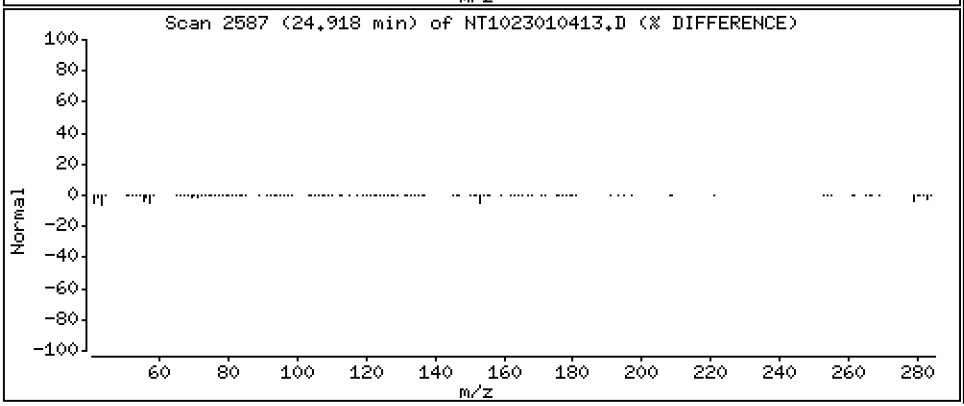












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

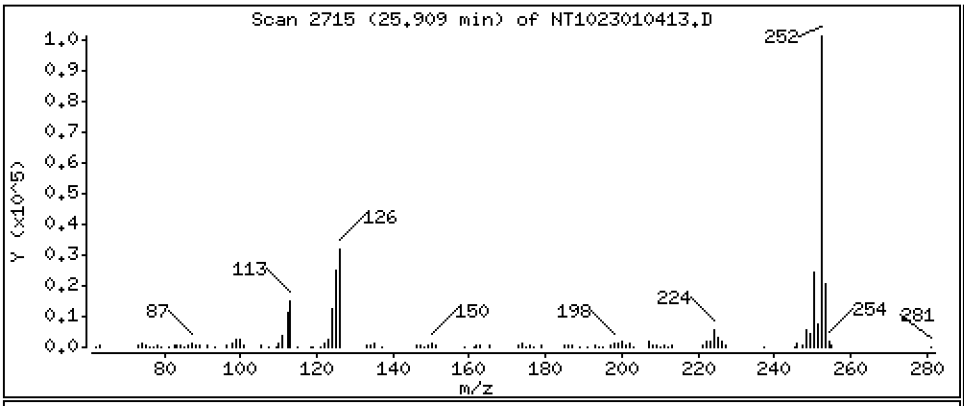
Operator: VTS

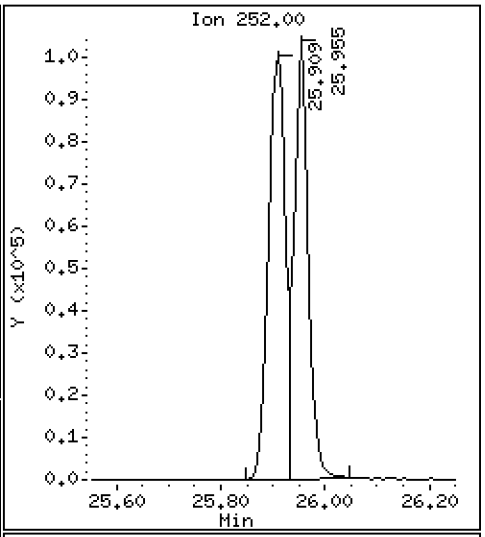
Column phase: ZB-5msi

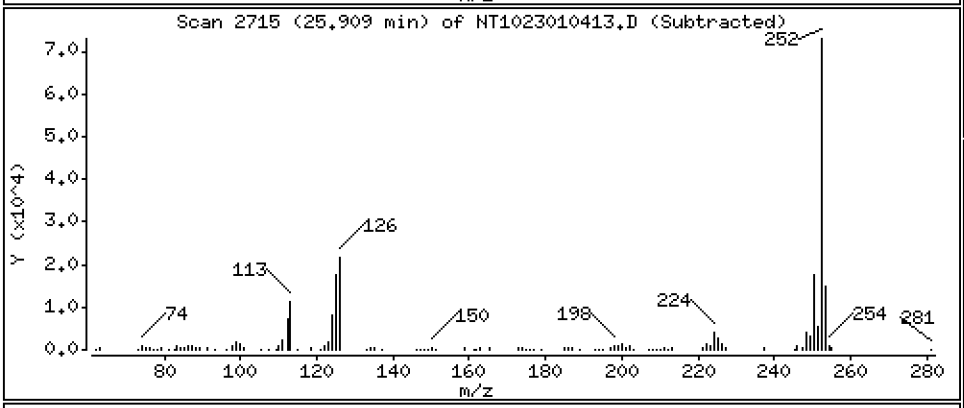
Column diameter: 0.25

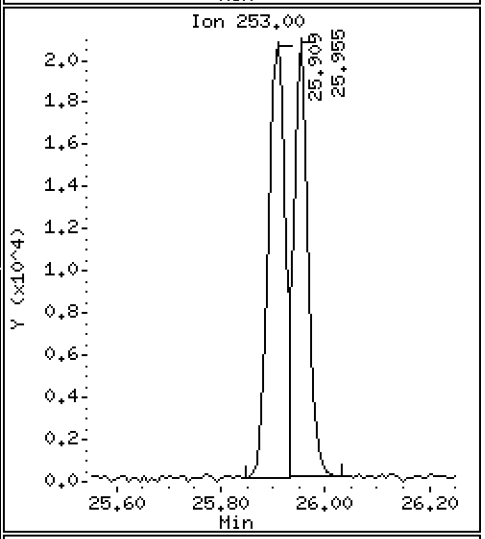
74 Benzo(b)fluoranthene

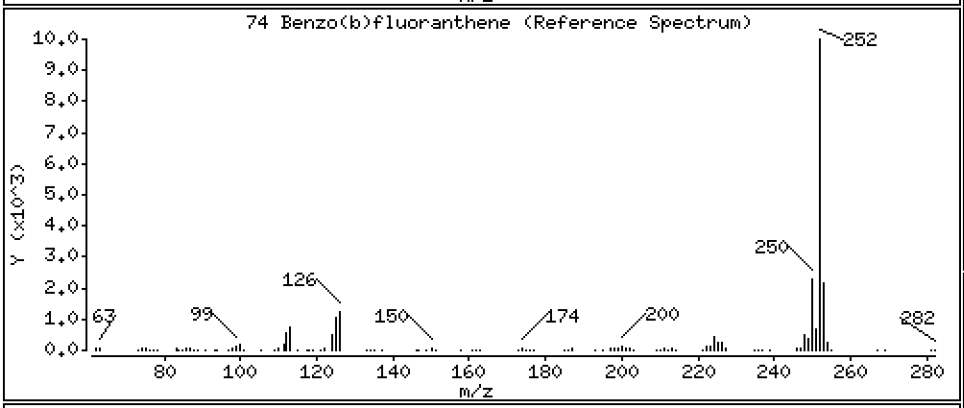
Concentration: 5.488 ug/mL

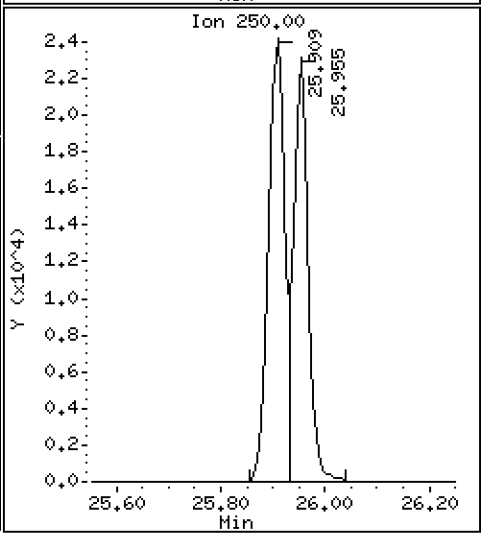


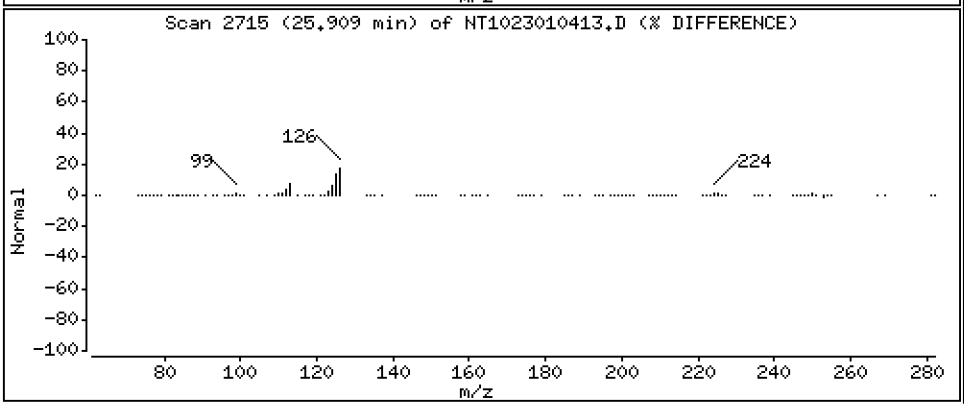












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

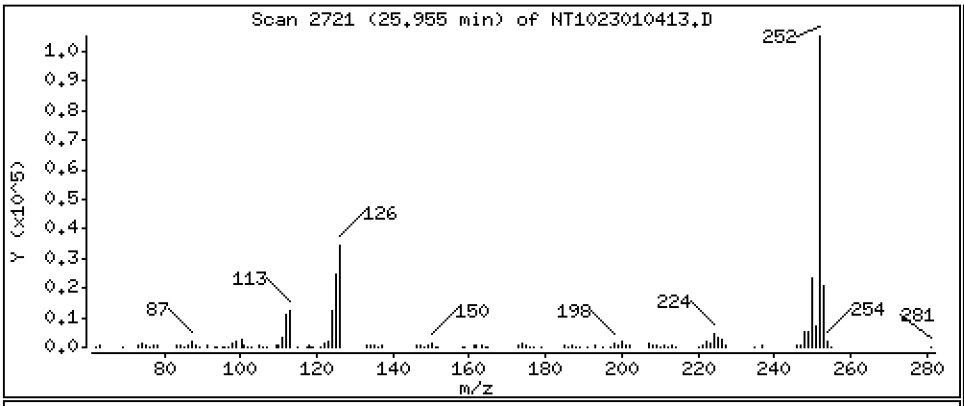
Operator: VTS

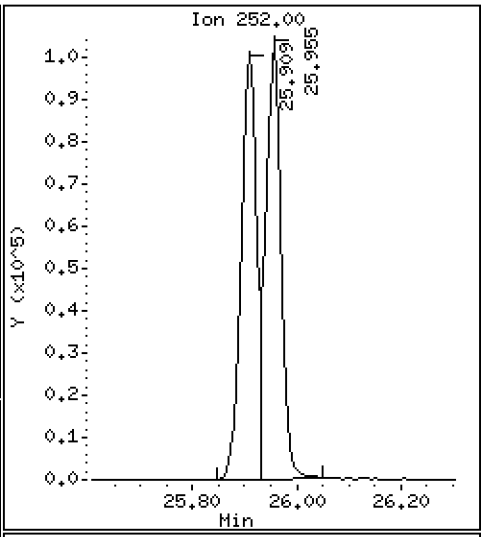
Column phase: ZB-5msi

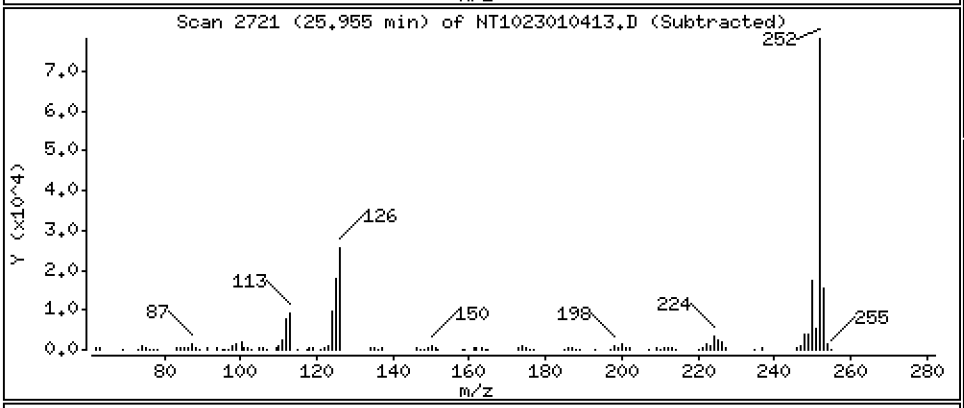
Column diameter: 0.25

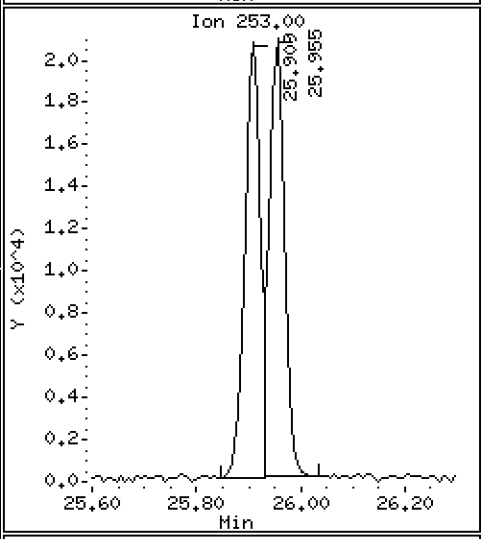
75 Benzo(k)fluoranthene

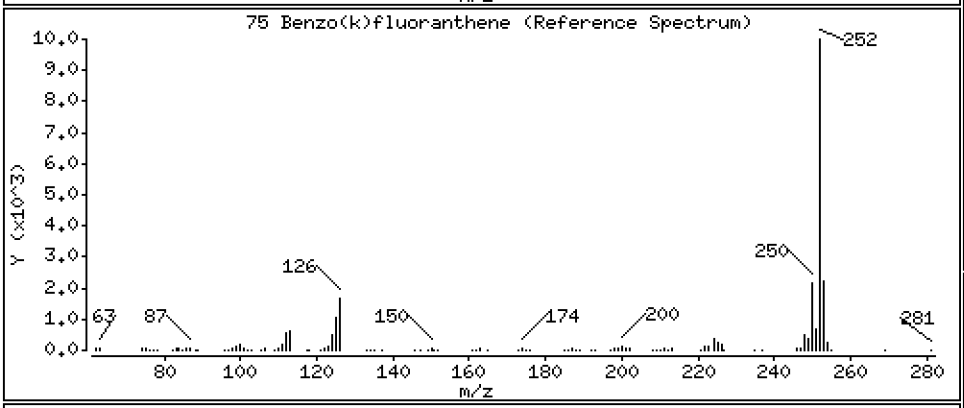
Concentration: 5.183 ug/mL

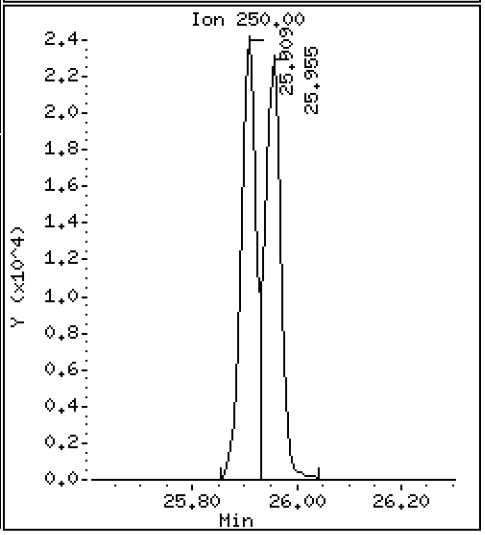


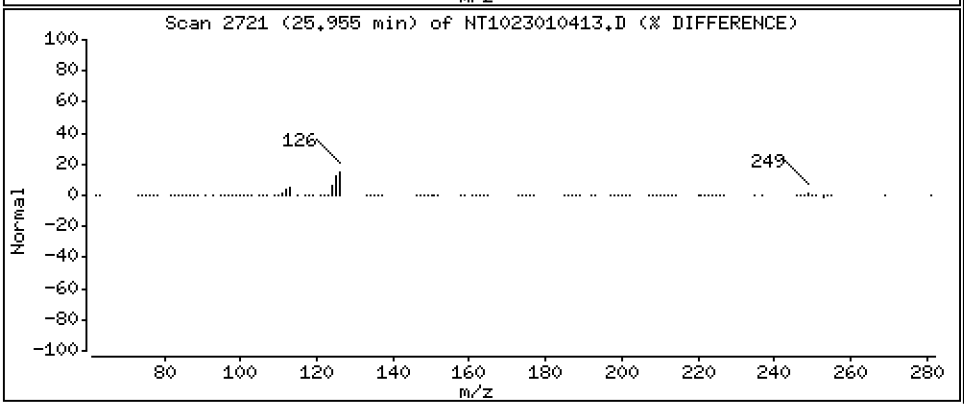












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

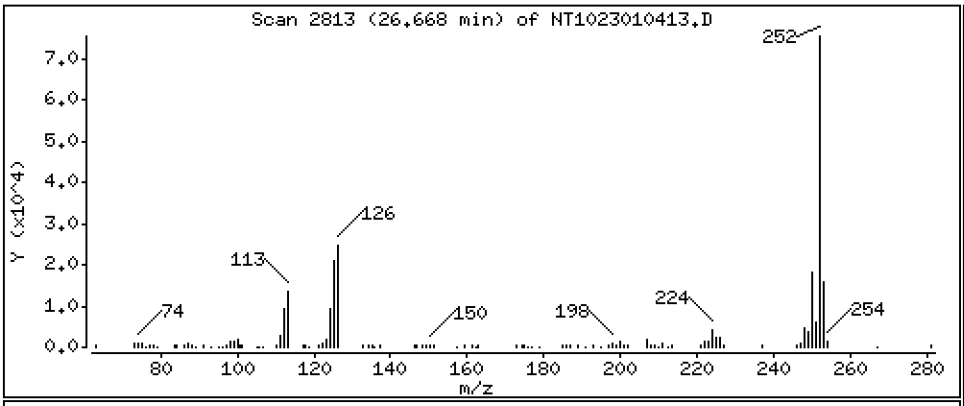
Operator: VTS

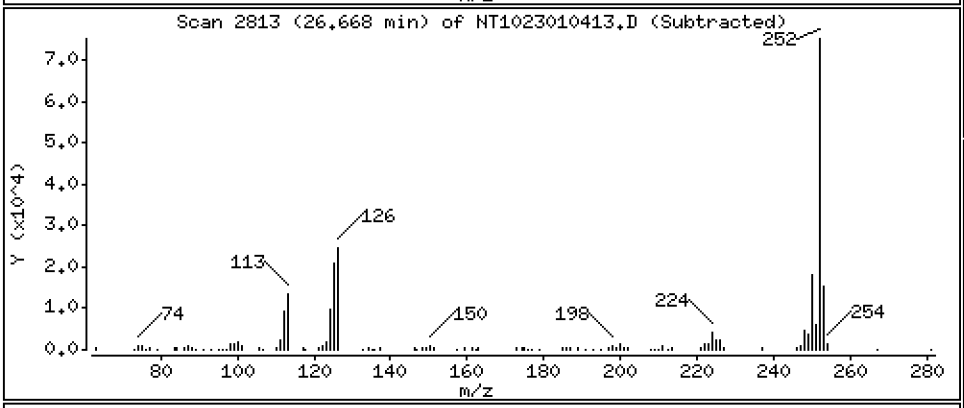
Column phase: ZB-5msi

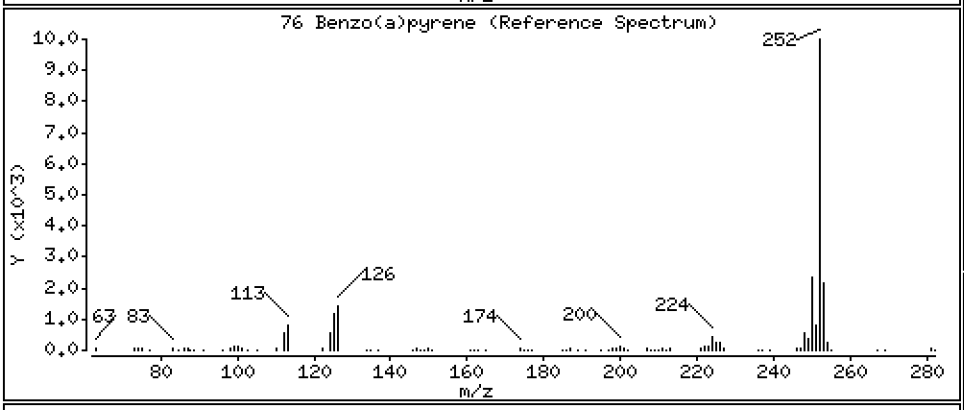
Column diameter: 0.25

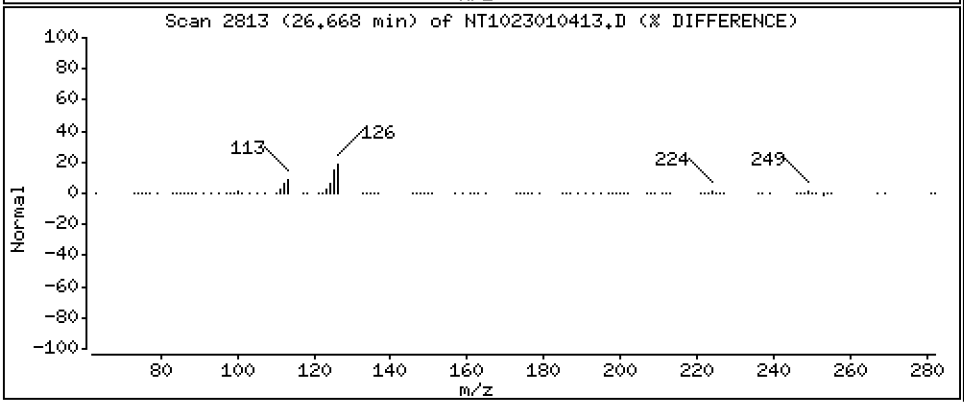
76 Benzo(a)pyrene

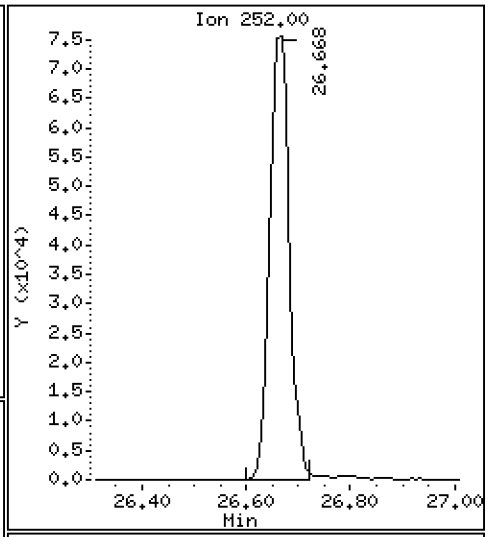
Concentration: 5.365 ug/mL

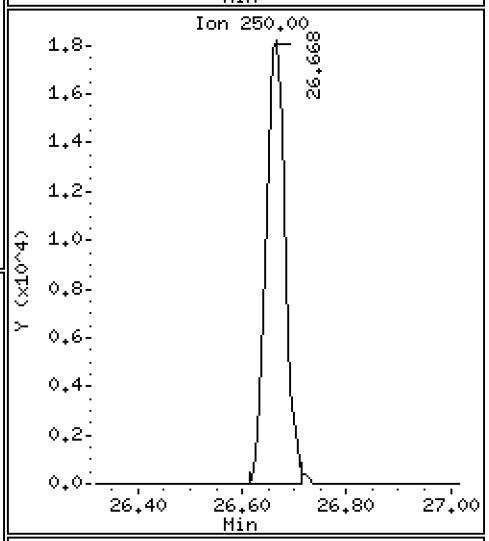


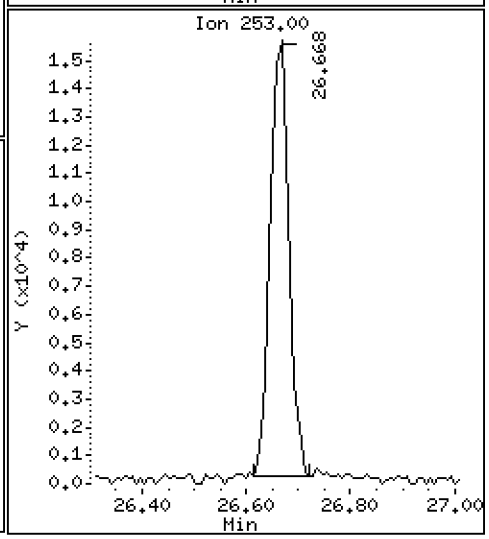












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

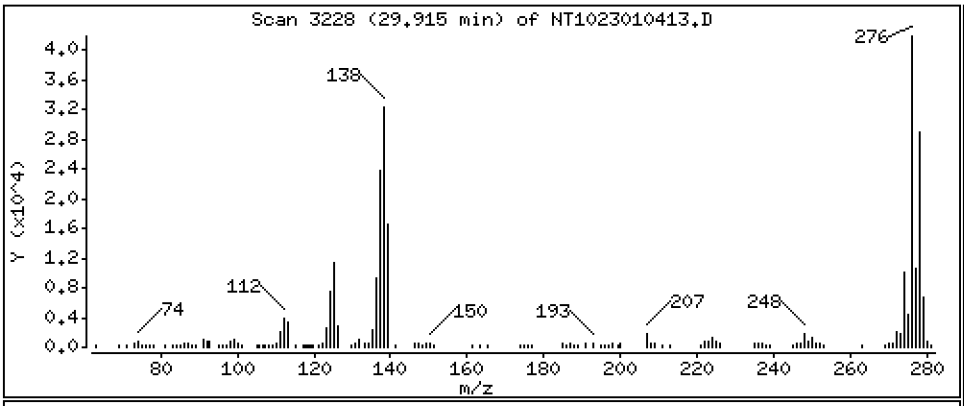
Operator: VTS

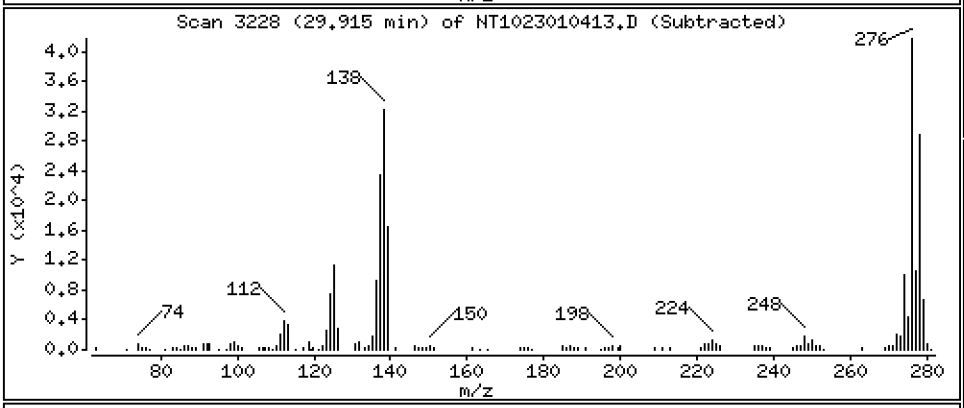
Column phase: ZB-5msi

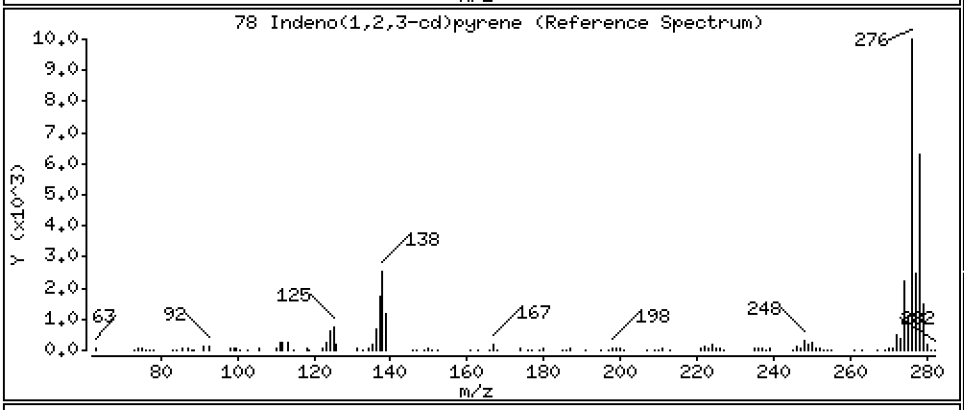
Column diameter: 0.25

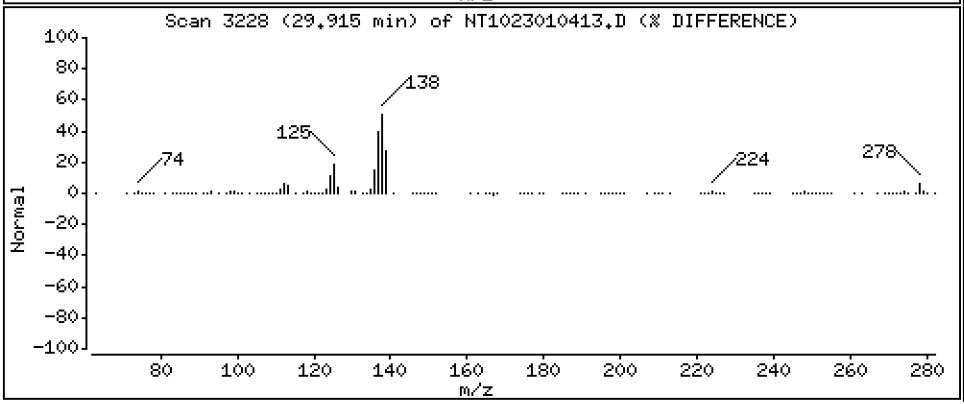
78 Indeno(1,2,3-cd)pyrene

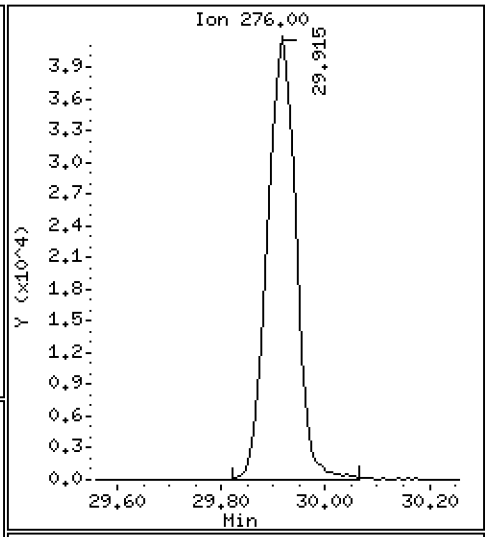
Concentration: 5.235 ug/mL

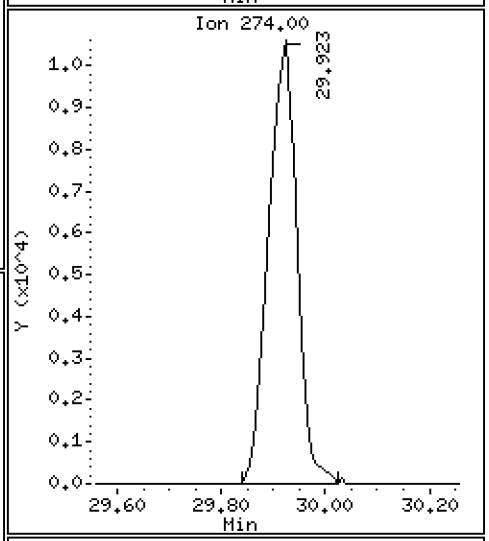


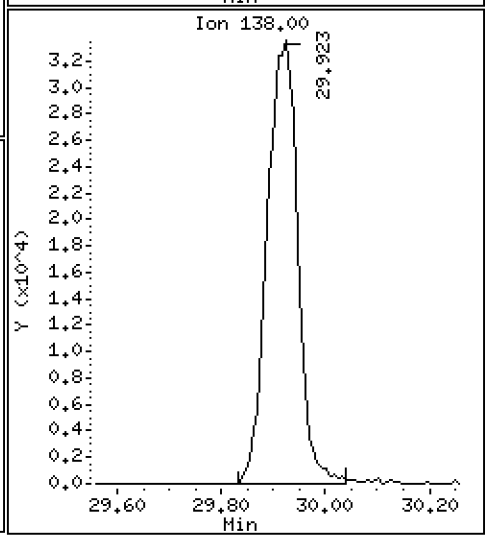












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

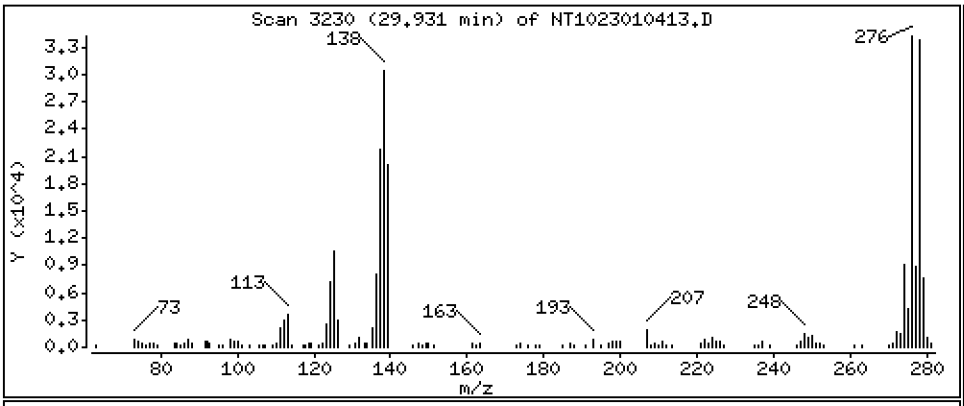
Operator: VTS

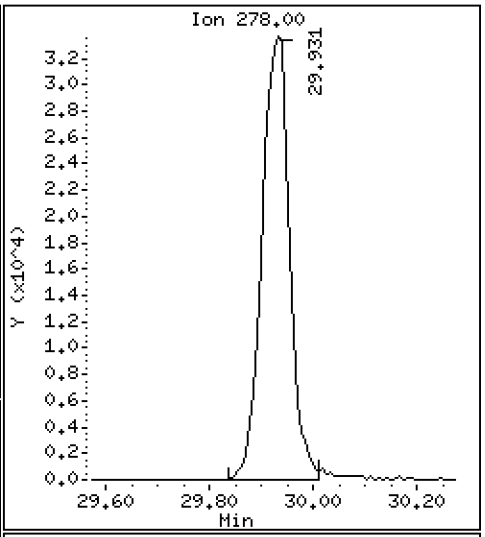
Column phase: ZB-5msi

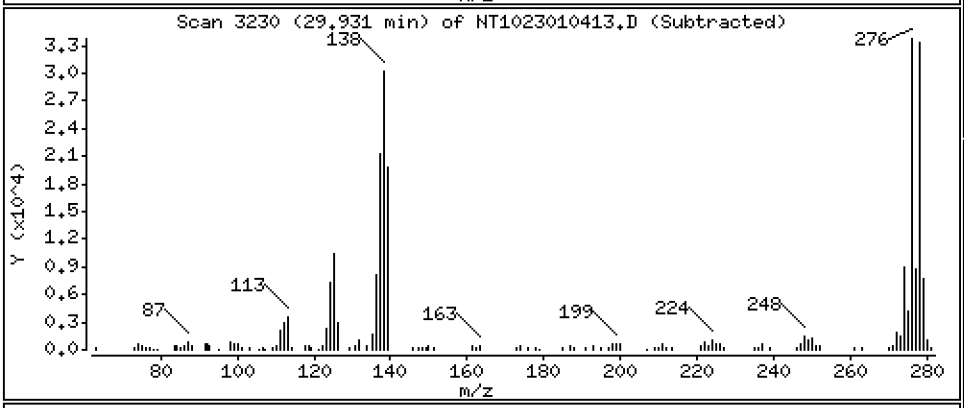
Column diameter: 0.25

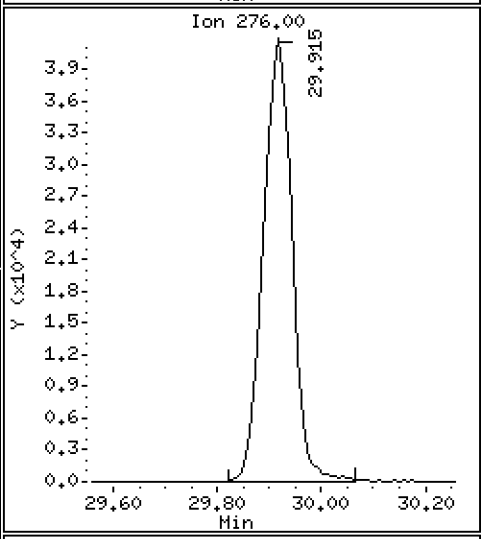
79 Dibenzo(a,h)anthracene

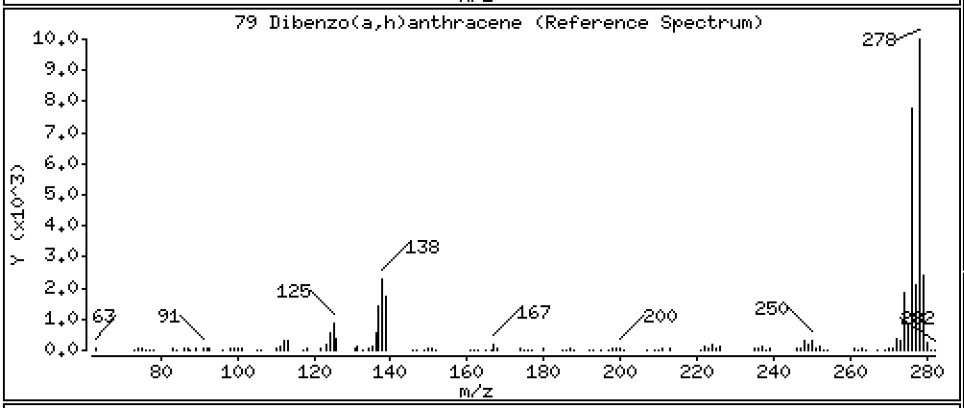
Concentration: 5.112 ug/mL

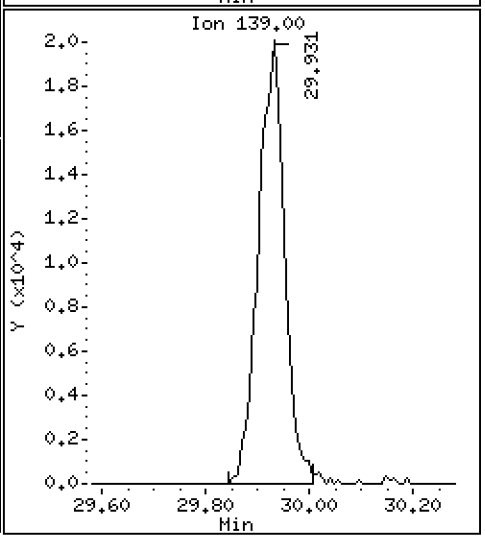


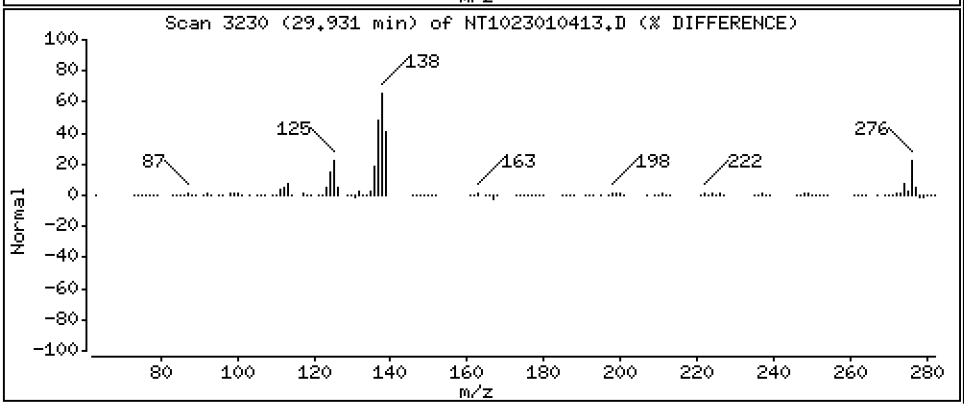












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

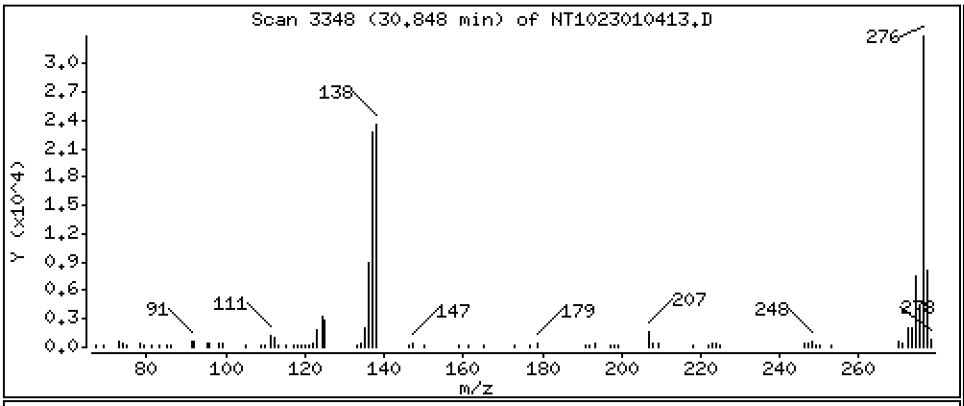
Operator: VTS

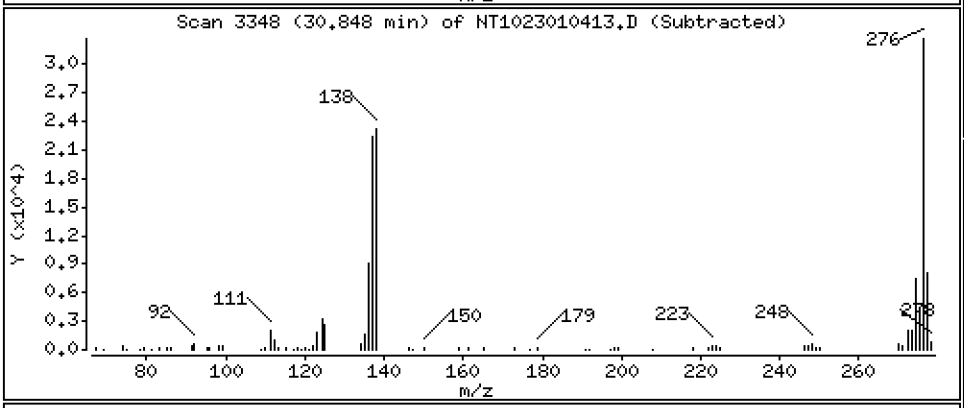
Column phase: ZB-5msi

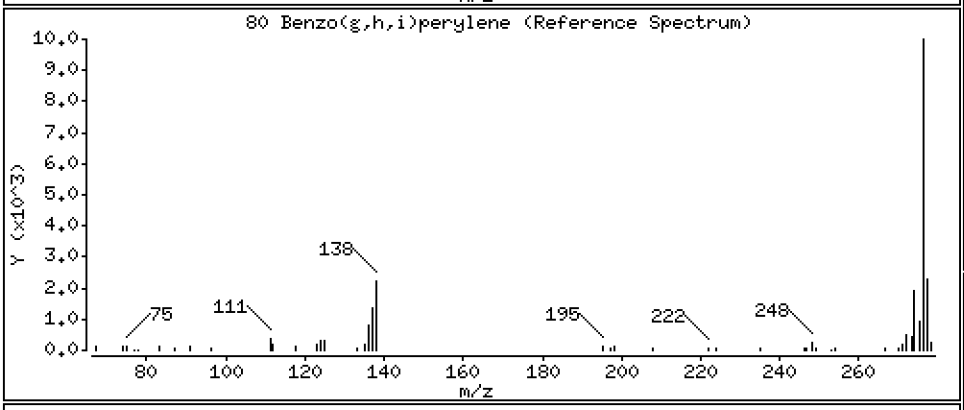
Column diameter: 0.25

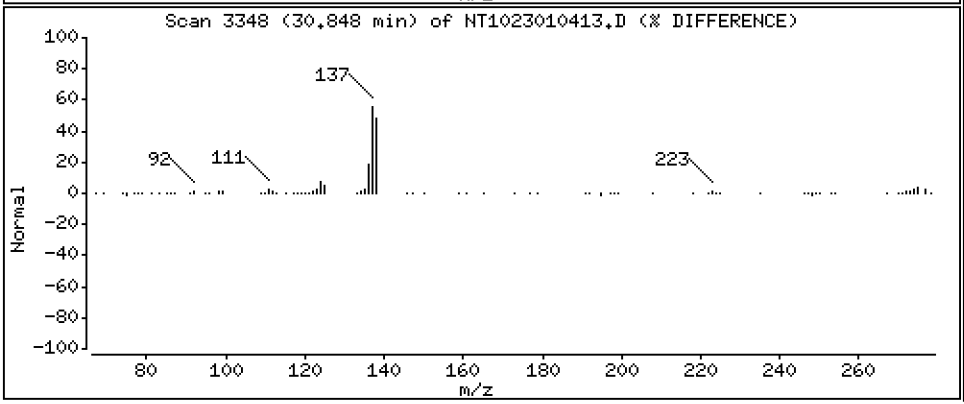
80 Benzo(g,h,i)perylene

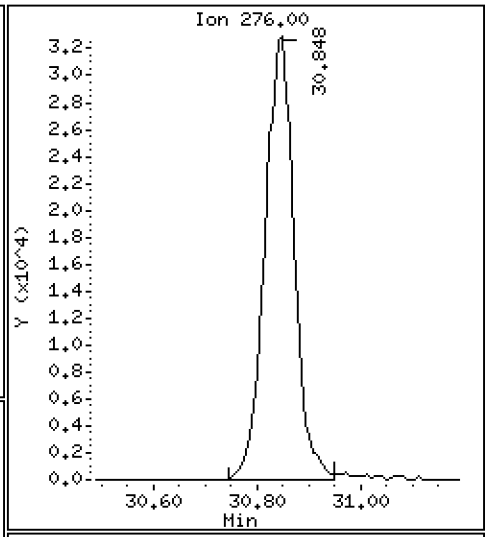
Concentration: 5.066 ug/mL

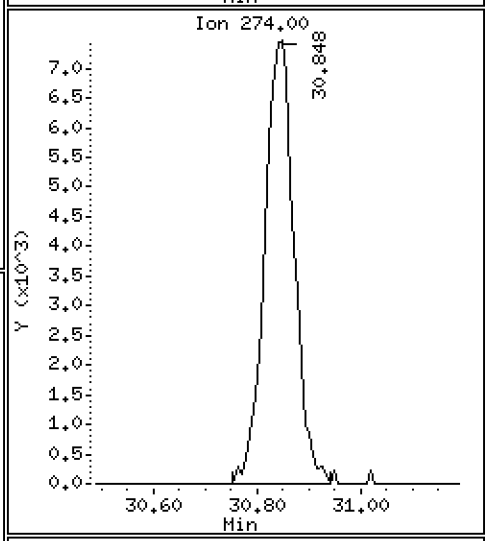


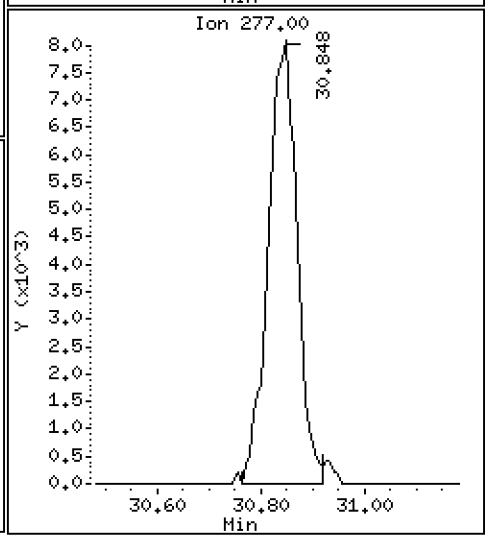












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

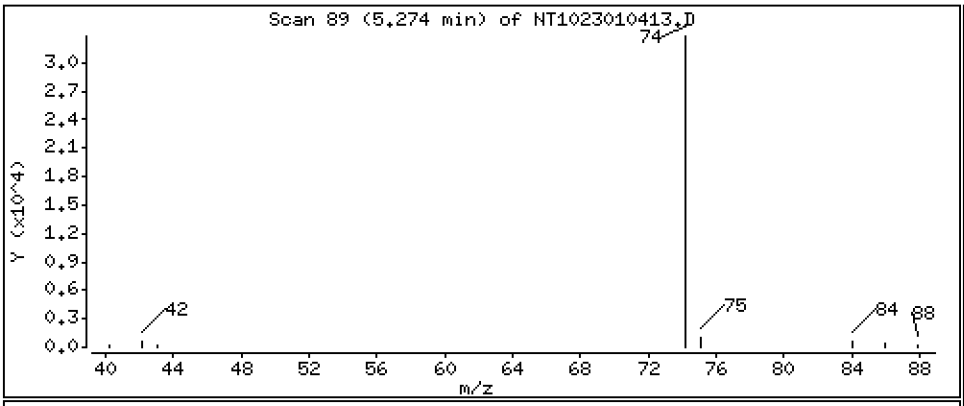
Operator: VTS

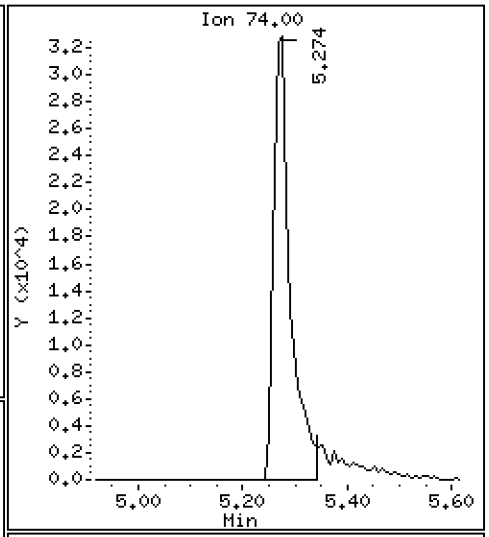
Column phase: ZB-5msi

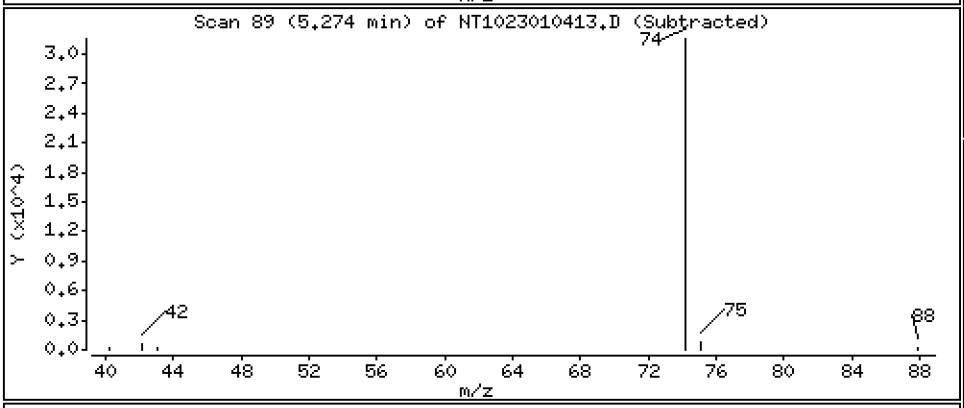
Column diameter: 0.25

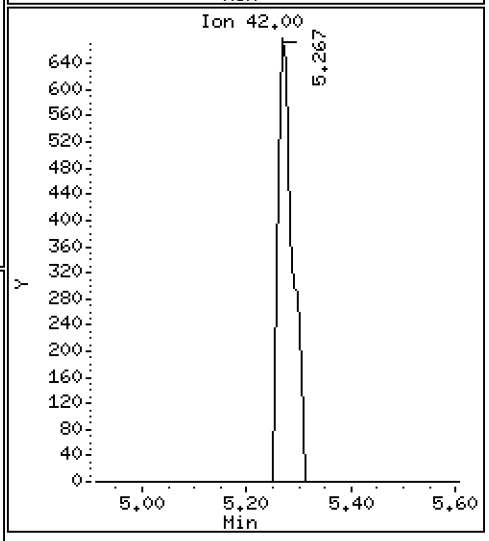
90 N-Nitrosodimethylamine

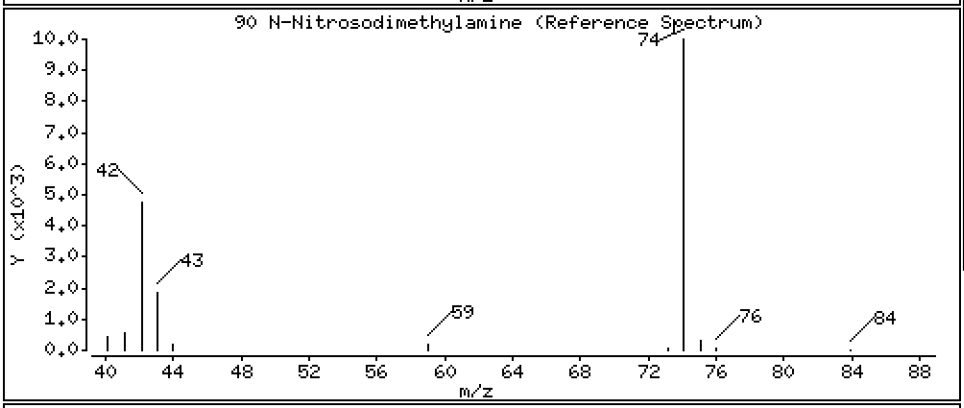
Concentration: 4.535 ug/mL

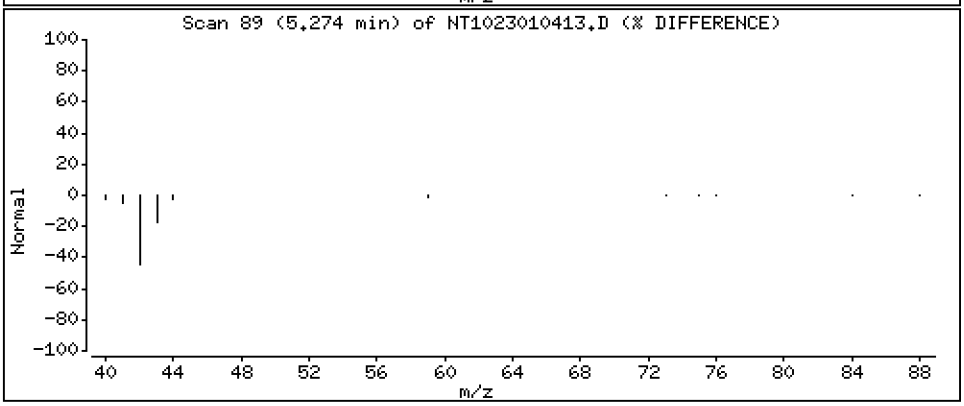












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

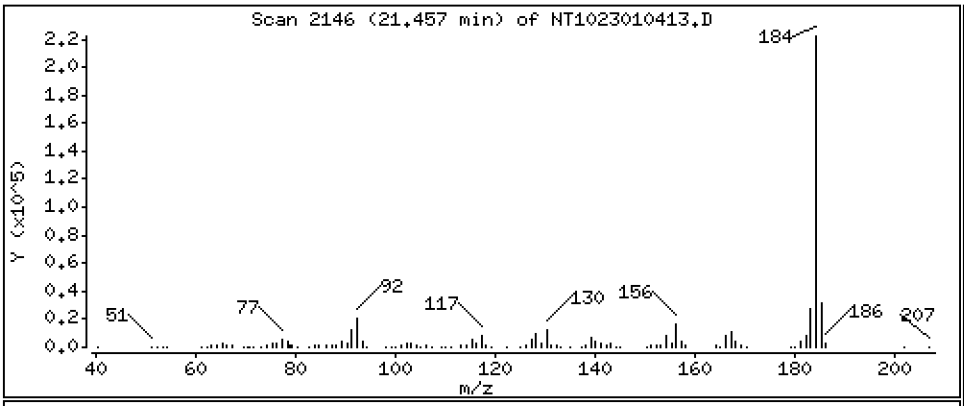
Operator: VTS

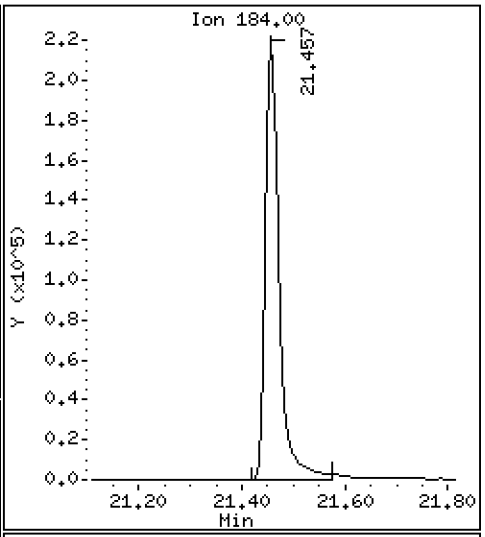
Column phase: ZB-5msi

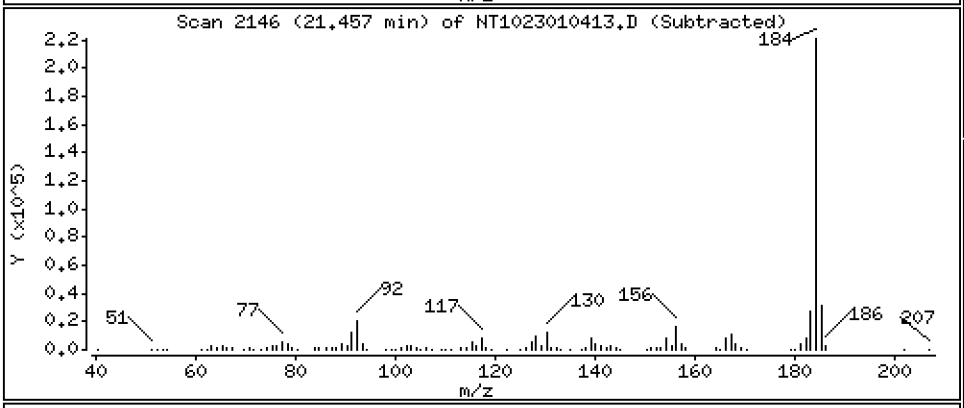
Column diameter: 0.25

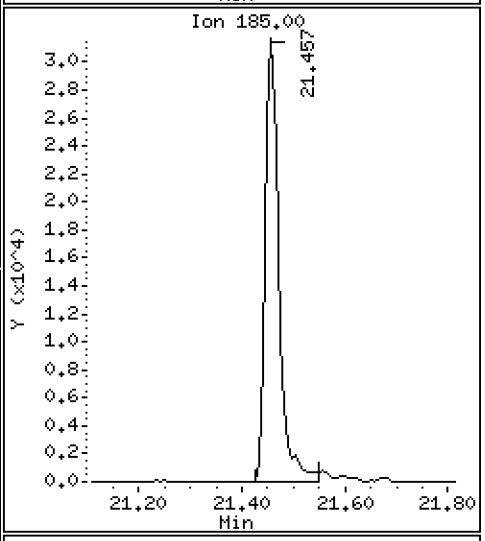
93 Benzidine

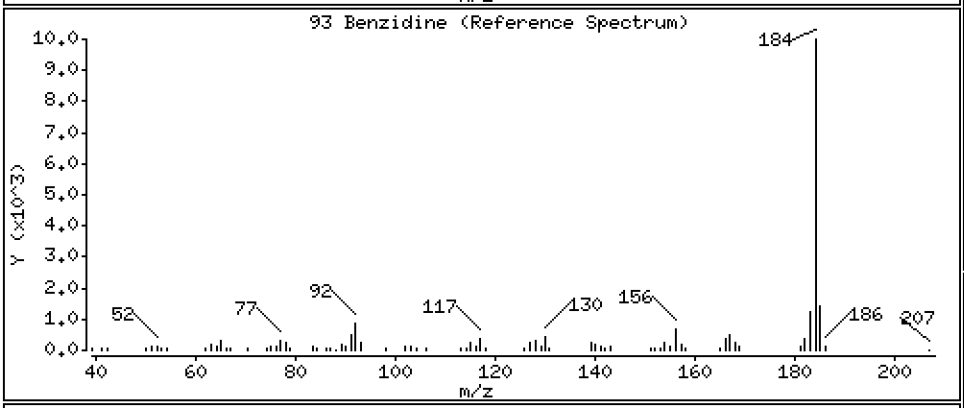
Concentration: 10.79 ug/mL

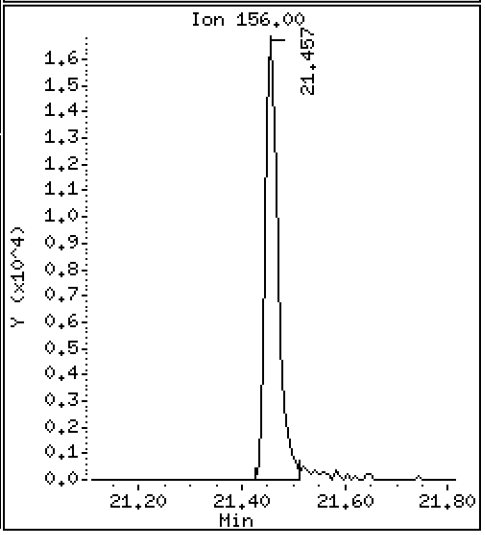


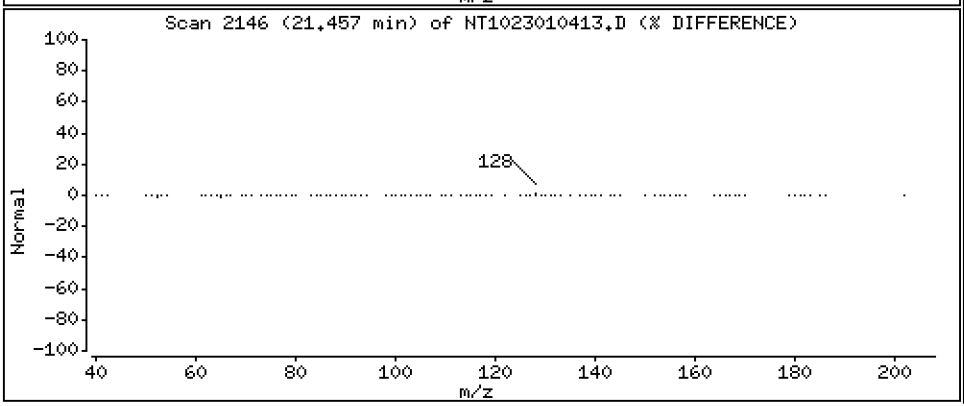












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

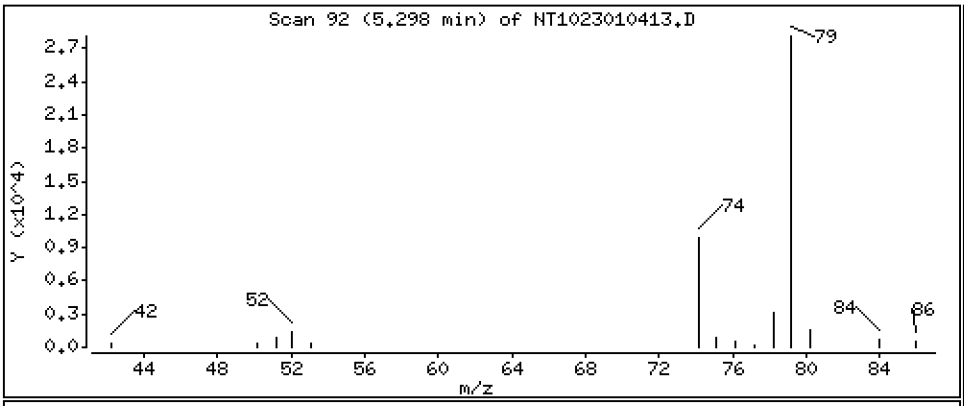
Operator: VTS

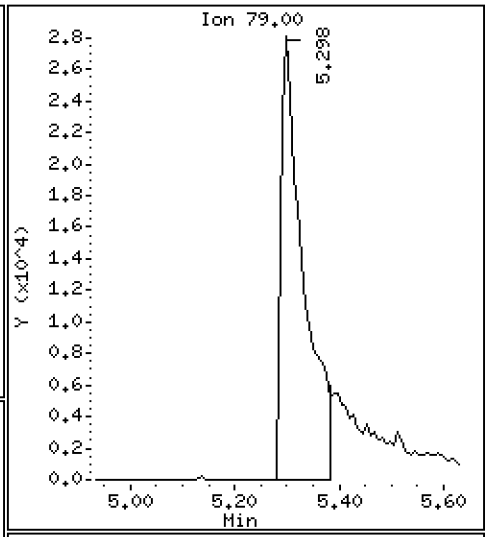
Column phase: ZB-5msi

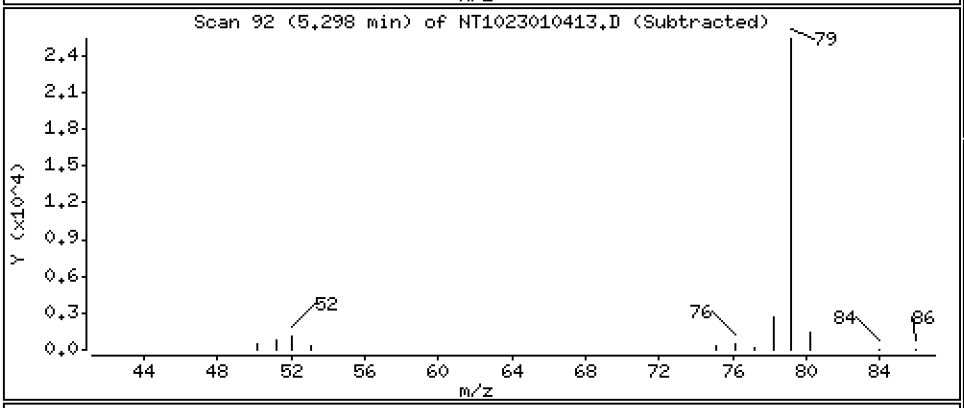
Column diameter: 0.25

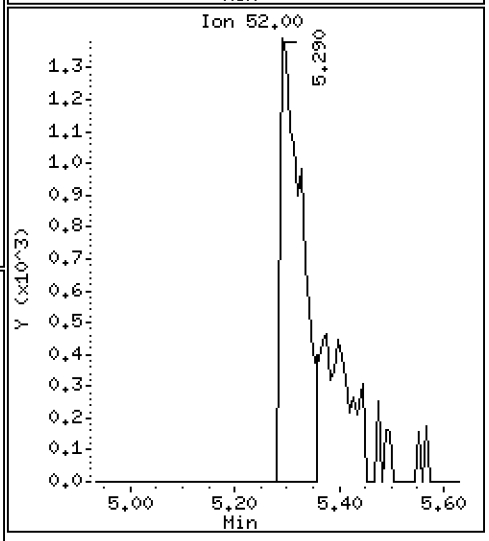
103 Pyridine

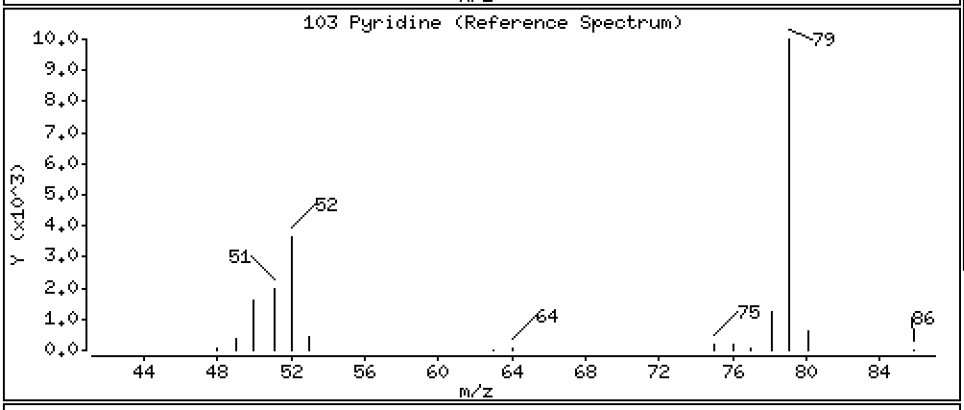
Concentration: 1.791 ug/mL

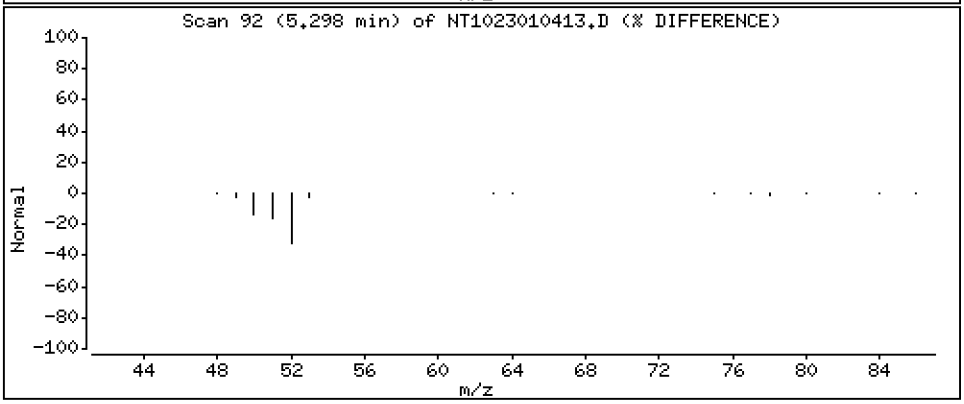












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

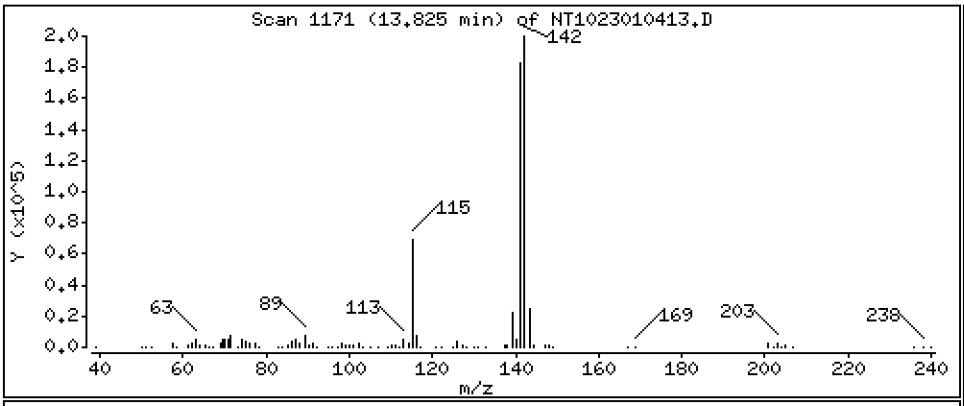
Operator: VTS

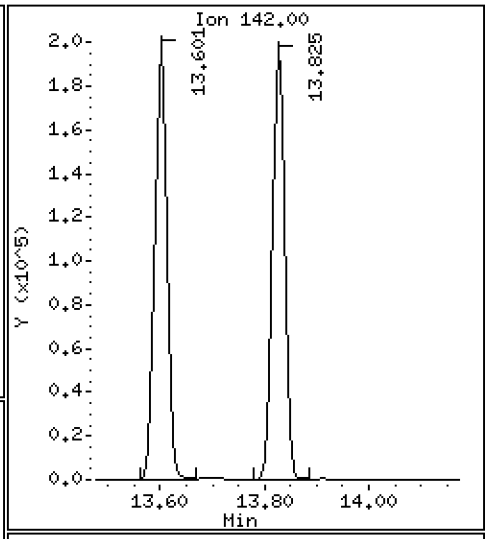
Column phase: ZB-5msi

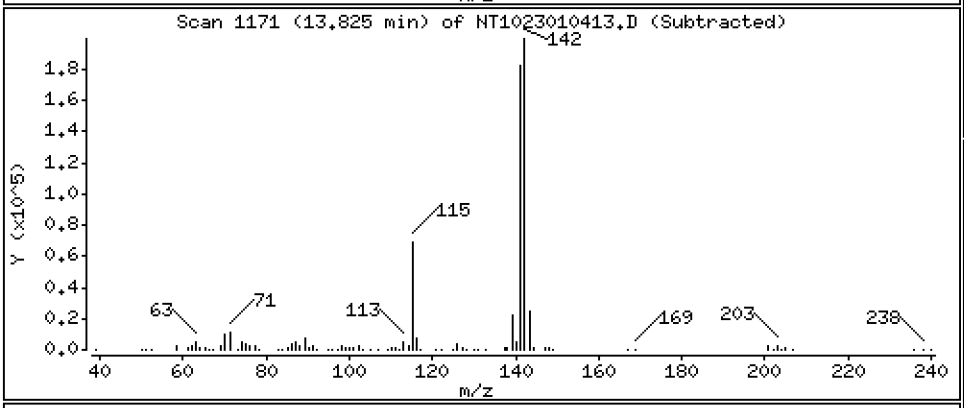
Column diameter: 0.25

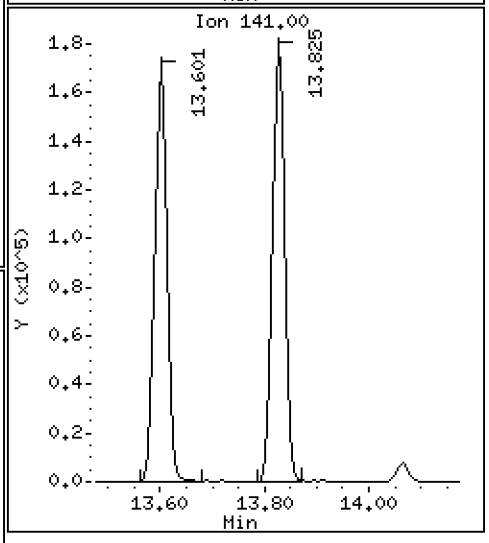
105 1-methylnaphthalene

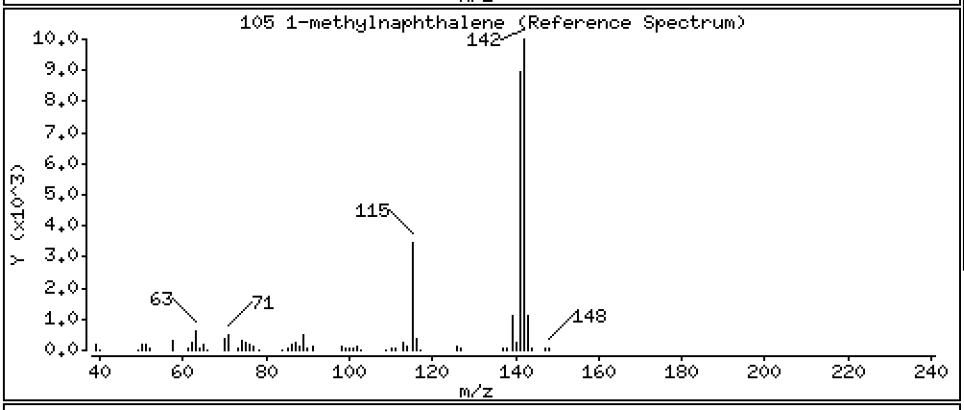
Concentration: 5.103 ug/mL

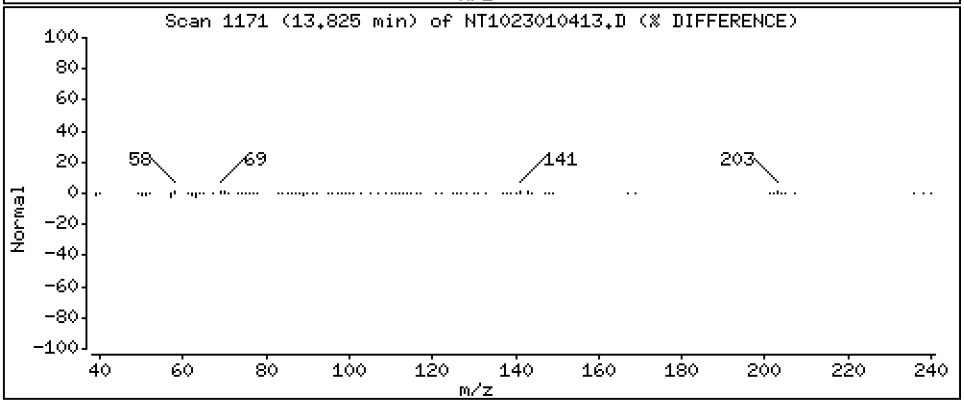












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

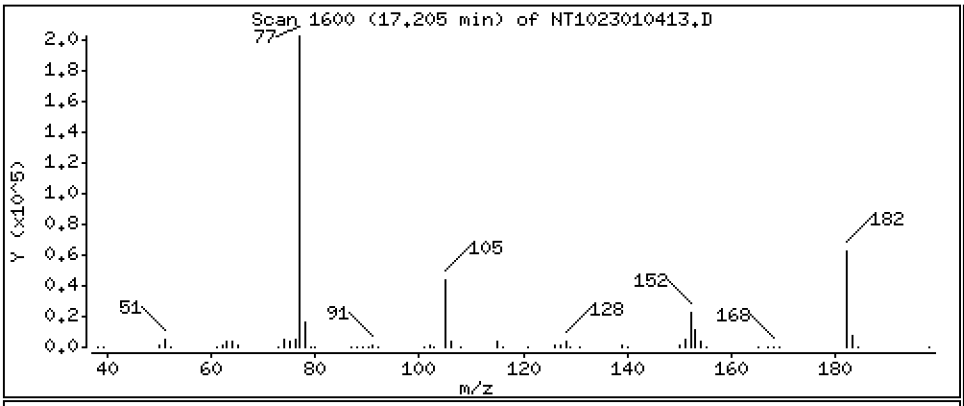
Operator: VTS

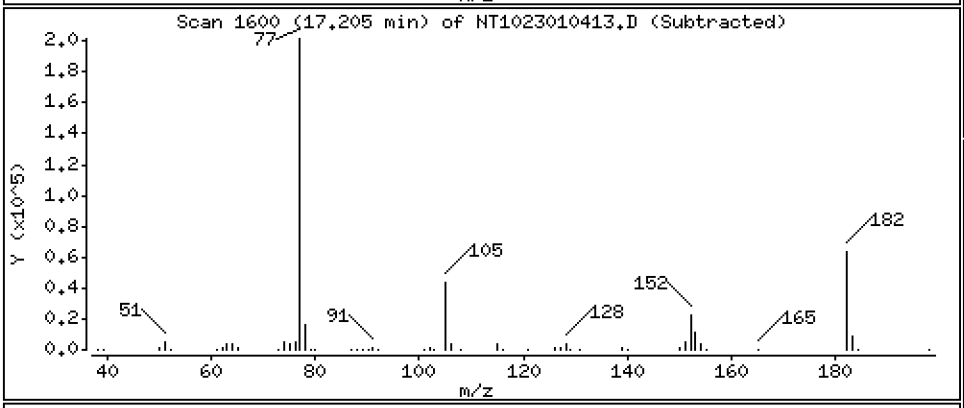
Column phase: ZB-5msi

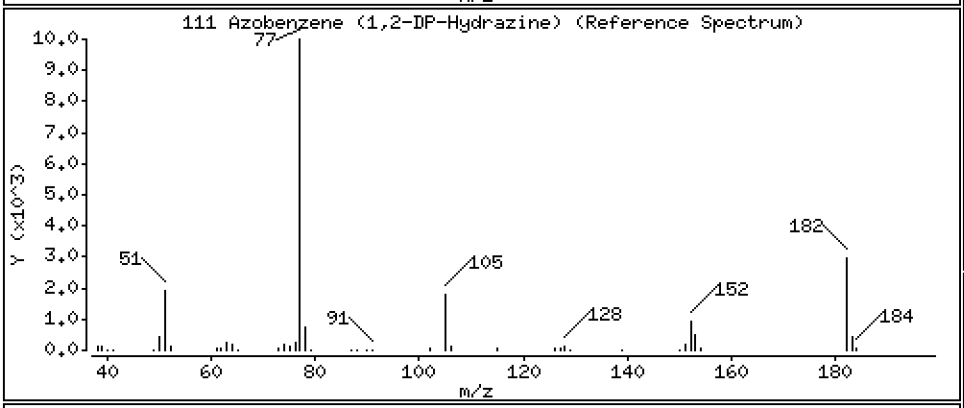
Column diameter: 0.25

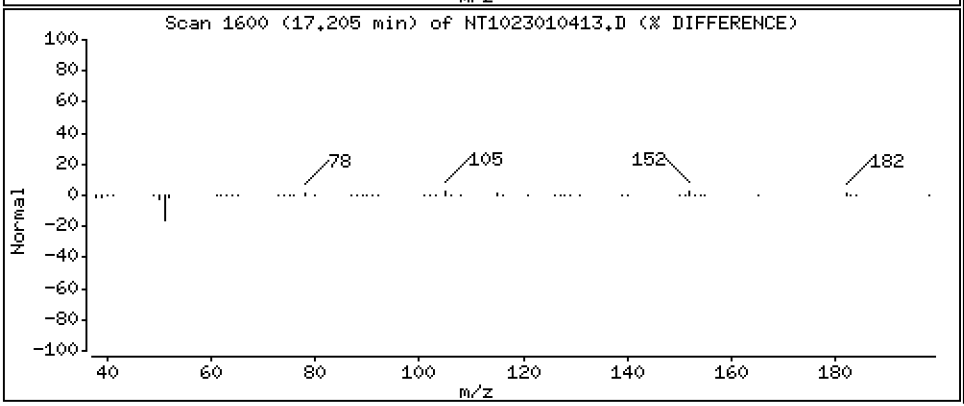
111 Azobenzene (1,2-DP-Hydrazine)

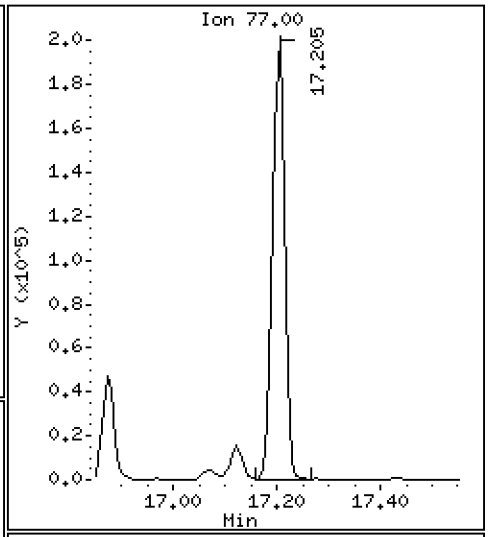
Concentration: 4.878 ug/mL

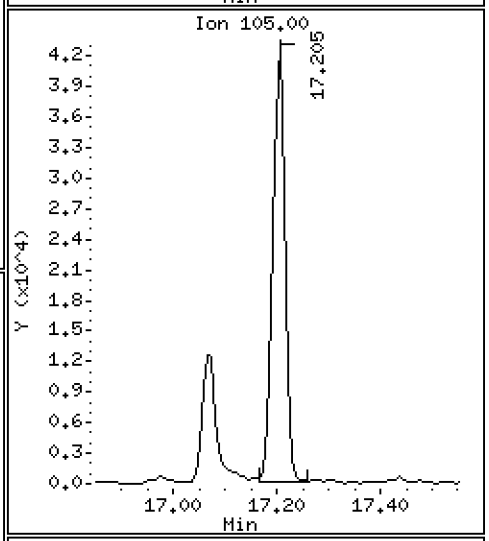


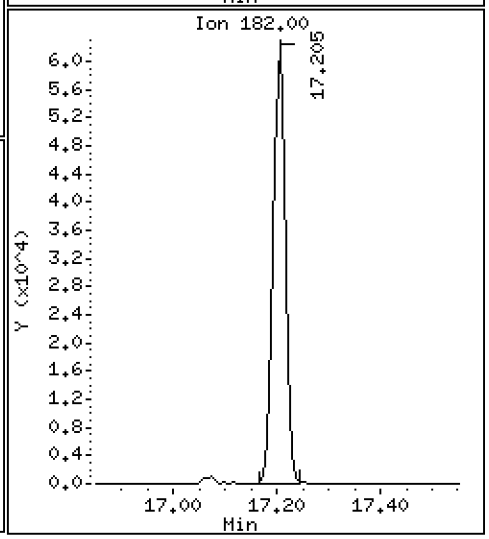












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

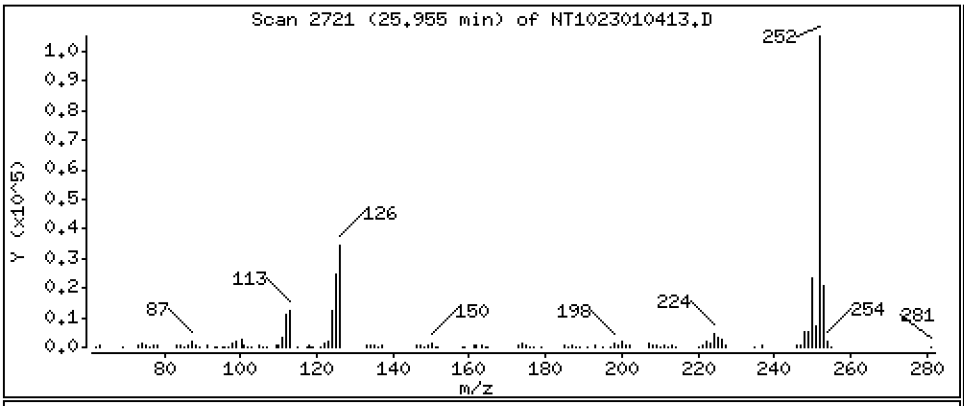
Operator: VTS

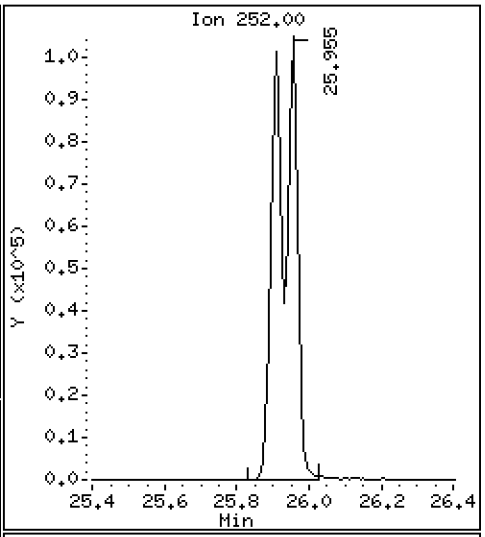
Column phase: ZB-5msi

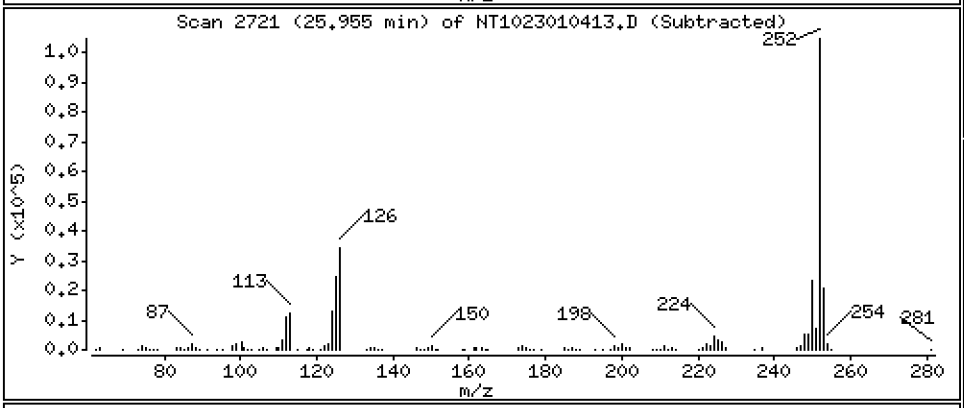
Column diameter: 0.25

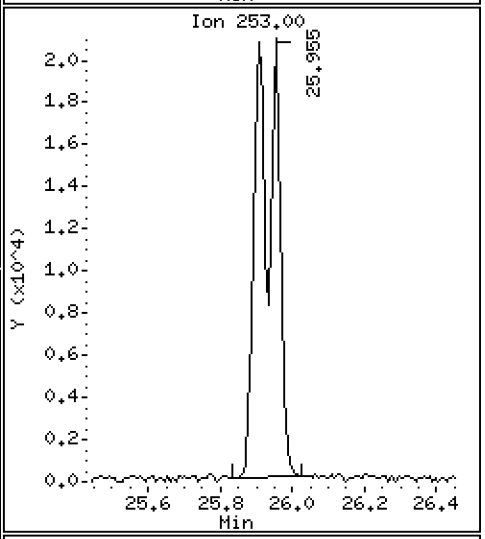
187 Total Benzofluoranthenes

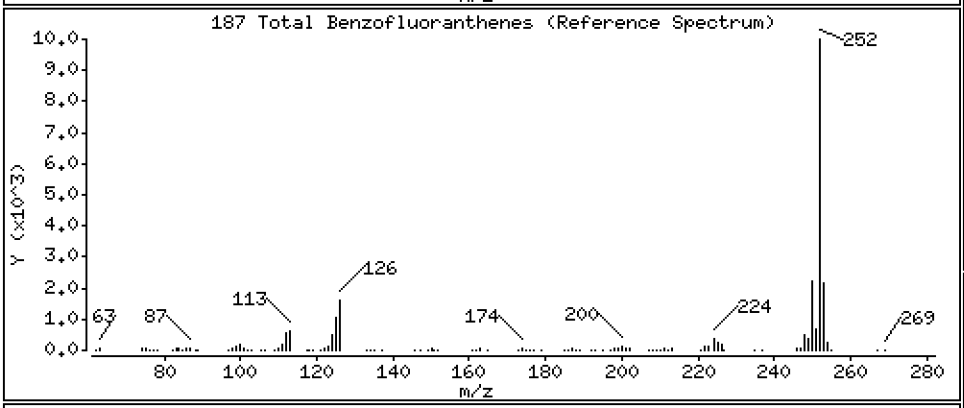
Concentration: 10.68 ug/mL

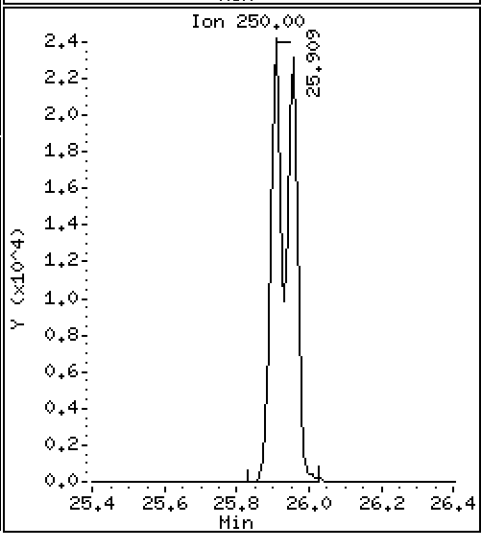


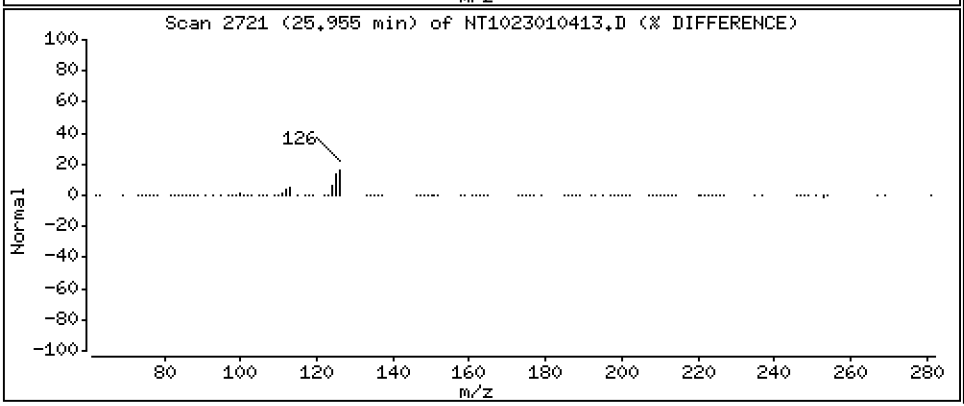












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

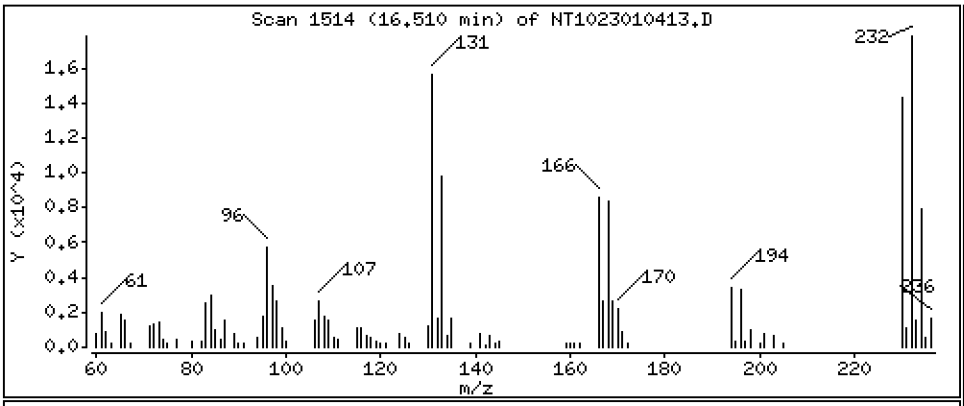
Operator: VTS

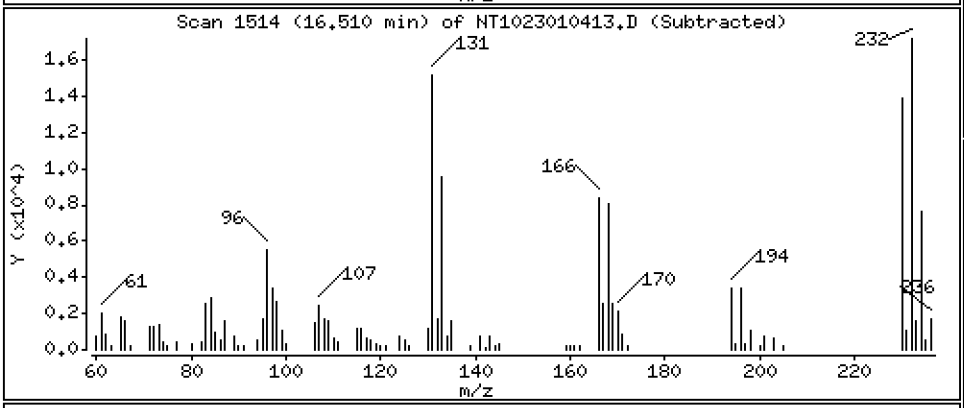
Column phase: ZB-5msi

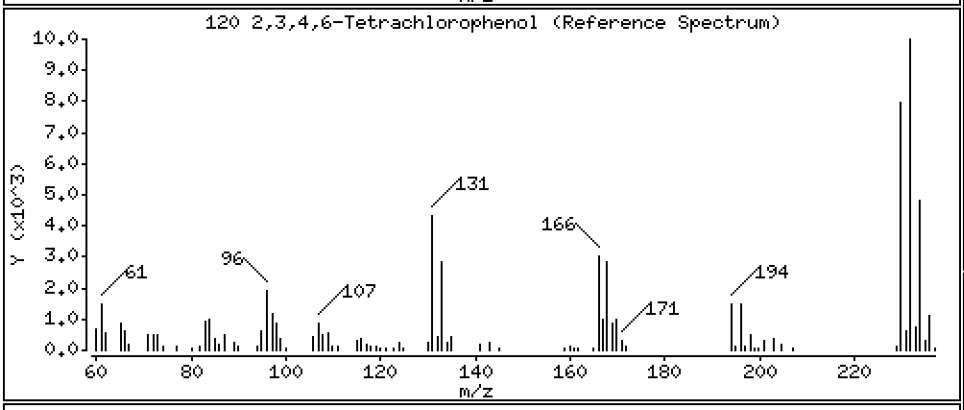
Column diameter: 0.25

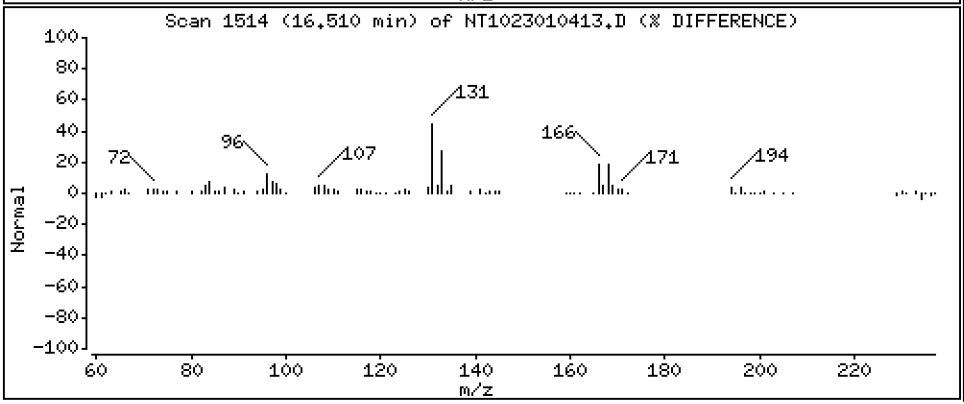
120 2,3,4,6-Tetrachlorophenol

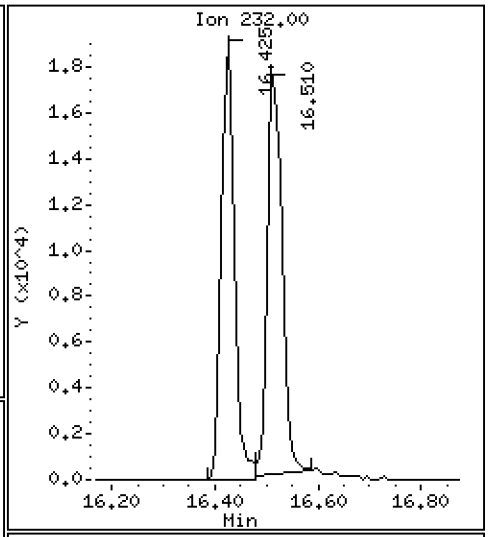
Concentration: 4.060 ug/mL

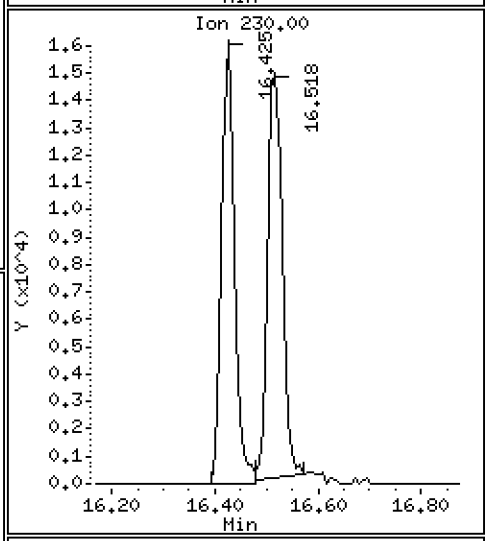


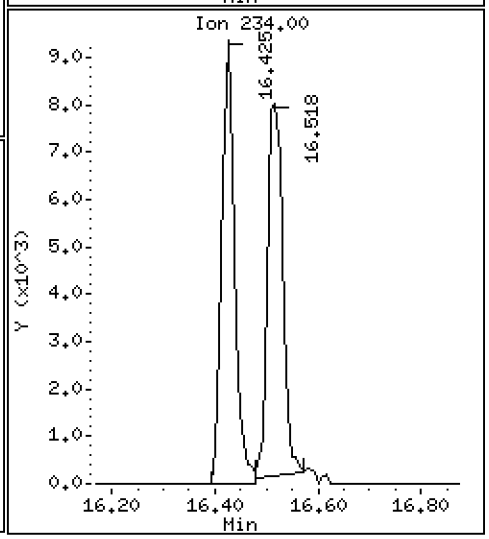












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SLA0012-SCV1
Inj Date : 04-JAN-2023 16:58
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	224715	7.64185	7.642
$	2 Phenol-d5	99	8.989	8.989	(0.930)	267575	7.58597	7.586
	3 Phenol	94	9.012	9.012	(0.933)	158785	4.71880	4.719
$	5 2-Chlorophenol-d4	132	9.298	9.298	(0.962)	258199	8.46951	8.470
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.951)	138910	4.78072	4.781
	6 2-Chlorophenol	128	9.329	9.329	(0.966)	166488	5.15267	5.153
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	170615	5.03039	5.030
*	8 1,4-Dichlorobenzene-d4	152	9.661	9.670	(1.000)	88595	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.004)	144841	4.96598	4.966
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.039)	99739	5.25220	5.252
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.041)	146003	4.93320	4.933
	11 Benzyl alcohol	108	9.925	9.925	(1.027)	74707	4.69913	4.699
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.058)	48379	5.55091	5.551
	13 2-Methylphenol	108	10.135	10.135	(1.049)	94252	4.16263	4.163
	17 Hexachloroethane	117	10.655	10.663	(1.103)	64725	5.05461	5.055
	16 N-Nitroso-di-n-propylamine	70	10.476	10.477	(1.084)	61755	5.18101	5.181
	15 4-Methylphenol	108	10.414	10.391	(1.078)	72303	4.57347	4.573
$	18 Nitrobenzene-d5	82	10.756	10.764	(0.884)	118184	5.02398	5.024
	19 Nitrobenzene	77	10.795	10.795	(0.888)	105765	4.93221	4.932
	20 Isophorone	82	11.237	11.237	(0.924)	224608	6.64004	6.640
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	88380	4.47939	4.479
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	102048	3.77028	3.770
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	148405	6.33196	6.332
	24 Benzoic acid	105	11.450	11.450	(0.942)	3528	0.31664	0.3166
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	106733	5.09782	5.098
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	101894	4.51999	4.520
*	27 Naphthalene-d8	136	12.161	12.162	(1.000)	350423	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	397291	5.15594	5.156
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	127702	4.19747	4.197
	30 Hexachlorobutadiene	225	12.555	12.556	(1.032)	40912	4.88362	4.884
	31 4-Chloro-3-methylphenol	107	13.260	13.260	(1.090)	100560	4.51499	4.515
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	314685	5.16348	5.163
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	44657	5.17794	5.178

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	66043	4.94833	4.948
	35	2,4,5-Trichlorophenol	196	14.289	14.289	(0.905)	66737	4.60726	4.607
$	36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	321372	5.49371	5.494
	37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	281103	5.37875	5.379
	38	2-Nitroaniline	65	14.838	14.846	(0.940)	38621	5.39121	5.391
	39	Dimethylphthalate	163	15.256	15.257	(0.966)	255305	5.36151	5.362
	40	Acenaphthylene	152	15.481	15.473	(0.980)	396090	5.27531	5.275
	41	2,6-Dinitrotoluene	165	15.403	15.404	(0.975)	58941	5.44953	5.450
*	42	Acenaphthene-d10	164	15.790	15.791	(1.000)	157902	4.00000	
	43	3-Nitroaniline	138	15.690	15.690	(0.994)	46796	6.03670	6.037
	44	Acenaphthene	153	15.860	15.860	(1.004)	224711	5.39302	5.393
	45	2,4-Dinitrophenol	184	15.914	15.914	(1.008)	8291	1.16138	1.161
	46	Dibenzofuran	168	16.185	16.185	(1.025)	333559	5.26832	5.268
	47	4-Nitrophenol	109	16.007	16.007	(1.014)	22311	3.88150	3.882
	48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	77451	5.33670	5.337
	50	Diethylphthalate	149	16.718	16.718	(1.059)	281464	5.60445	5.604
	49	Fluorene	166	16.904	16.896	(1.070)	476590	5.12741	5.127
	51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	145983	4.88992	4.890
	52	4-Nitroaniline	138	16.973	16.973	(1.075)	112376	5.36280	5.363
	53	4,6-Dinitro-2-methylphenol	198	17.073	17.066	(0.906)	46974	3.80822	3.808
	54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	252742	4.69177	4.692
$	55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	19945	6.20177	6.202
	56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.950)	68834	4.85369	4.854
	57	Hexachlorobenzene	284	18.215	18.215	(0.967)	49735	4.10084	4.101
	58	Pentachlorophenol	266	18.594	18.579	(0.987)	94	0.04497	0.04497
*	59	Phenanthrene-d10	188	18.842	18.842	(1.000)	291036	4.00000	
	60	Phenanthrene	178	18.888	18.888	(1.002)	354841	5.02544	5.025
	61	Anthracene	178	18.989	18.981	(1.008)	313064	4.54195	4.542
	62	Carbazole	167	19.298	19.299	(1.024)	358216	4.82289	4.823
	63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	530086	5.12976	5.130
	64	Fluoranthene	202	21.248	21.240	(0.891)	410175	5.42517	5.425
	65	Pyrene	202	21.673	21.666	(0.909)	413310	5.43802	5.438
$	66	Terphenyl-d14	244	21.929	21.929	(0.919)	212848	4.87635	4.876
	67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	215268	5.29295	5.293
	68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	278522	5.36735	5.367
*	69	Chrysene-d12	240	23.849	23.850	(1.000)	180135	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.756	23.757	(0.996)	197513	10.5462	10.55
	71	Chrysene	228	23.896	23.896	(1.002)	207879	4.66213	4.662
	72	bis(2-Ethylhexyl)phthalate	149	23.849	23.842	(0.958)	355145	5.28072	5.281
*	134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	437929	4.00000	
	73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	511569	5.05159	5.052
	74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	225309	5.48784	5.488
	75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	207321	5.18288	5.183
	76	Benzo(a)pyrene	252	26.667	26.660	(0.995)	210048	5.36509	5.365
*	77	Perylene-d12	264	26.799	26.791	(1.000)	113976	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	161089	5.23456	5.235
	79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	123610	5.11179	5.112
	80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	128628	5.06607	5.066
	90	N-Nitrosodimethylamine	74	5.274	5.266	(0.546)	72009	4.53535	4.535
	91	Aniline	93	Compound Not Detected.					
	93	Benzidine	184	21.457	21.457	(0.900)	383147	10.7938	10.79
	103	Pyridine	79	5.297	5.282	(0.548)	84629	1.79057	1.791
	105	1-methylnaphthalene	142	13.825	13.825	(1.137)	303889	5.10312	5.103
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.204	17.205	(1.090)	303783	4.87819	4.878

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	415058	10.6768	10.68
120 2,3,4,6-Tetrachlorophenol	232	16.509	16.517	(1.046)	32903	4.05990	4.060

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	80982	40491	161964	88595	9.40
27 Naphthalene-d8	314194	157097	628388	350423	11.53
42 Acenaphthene-d10	149187	74594	298374	157902	5.84
59 Phenanthrene-d10	263157	131579	526314	291036	10.59
69 Chrysene-d12	165015	82508	330030	180135	9.16
134 Di-n-octylphthala	399023	199512	798046	437929	9.75
77 Perylene-d12	106456	53228	212912	113976	7.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.66	-0.08
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010413.D

Lab ID: SLA0012-SCV1
nt10.i, ABN.m, 04-JAN-2023 16:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	14.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.5	50.00
2-Chlorophenol	0.20000	0.2	17.8	50.00
1,3-Dichlorobenzene	0.20000	0.2	22.8	50.00
1,4-Dichlorobenzene	0.20000	0.2	24.3	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.6	50.00
Benzyl Alcohol	0.20000	0.2	-18.9	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	11.8	50.00
2-Methylphenol	0.20000	0.2	17.1	50.00
Hexachloroethane	0.20000	0.2	-12.3	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	10.4	50.00
4-Methylphenol	0.20000	0.2	6.0	50.00
Nitrobenzene	0.20000	0.2	12.7	50.00
Isophorone	0.20000	0.2	-1.7	50.00
2-Nitrophenol	0.20000	0.2	1.4	50.00
2,4-Dimethylphenol	0.40000	0.5	13.9	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	17.9	50.00
2,4-Dichlorophenol	0.40000	0.4	3.3	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	21.1	50.00
Naphthalene	0.20000	0.2	18.9	50.00
Benzoic acid	0.80000	0.2	-78.2	50.00
4-Chloroaniline	0.40000	0.4	1.5	50.00
Hexachlorobutadiene	0.20000	0.2	11.2	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	0.3	50.00
2-Methylnaphthalene	0.20000	0.2	11.5	50.00
Hexachlorocyclopentadiene	0.40000	0.02	-94.6	50.00
2,4,6-Trichlorophenol	0.40000	0.4	-6.3	50.00
2,4,5-Trichlorophenol	0.40000	0.4	7.9	50.00
2-Chloronaphthalene	0.20000	0.2	18.6	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

2-Nitroaniline	0.40000	0.4	-0.7	50.00
Acenaphthylene	0.20000	0.2	12.8	50.00
Dimethylphthalate	0.20000	0.2	11.6	50.00
2,6-Dinitrotoluene	0.40000	0.4	-12.1	50.00
Acenaphthene	0.20000	0.2	17.6	50.00
3-Nitroaniline	0.40000	0.3	-15.7	50.00
2,4-Dinitrophenol	0.80000	0.005	-99.3	50.00
Dibenzofuran	0.20000	0.2	20.2	50.00
4-Nitrophenol	0.40000	0.2	-40.6	50.00
2,4-Dinitrotoluene	0.40000	0.3	-24.5	50.00
Fluorene	0.20000	0.2	13.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	6.9	50.00
Diethyl phthalate	0.20000	0.2	13.9	50.00
4-Nitroaniline	0.40000	0.3	-21.8	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.2	-74.8	50.00
N-Nitrosodiphenylamine	0.20000	0.2	21.1	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	13.7	50.00
Hexachlorobenzene	0.20000	0.2	14.5	50.00
Pentachlorophenol	0.40000	0.08	-80.8	50.00
Phenanthrene	0.20000	0.2	20.7	50.00
Anthracene	0.20000	0.2	9.1	50.00
Carbazole	0.20000	0.2	8.7	50.00
Di-n-Butylphthalate	0.20000	0.2	-4.7	50.00
Fluoranthene	0.20000	0.2	15.4	50.00
Pyrene	0.20000	0.2	10.6	50.00
Butylbenzylphthalate	0.20000	0.2	4.0	50.00
Benzo(a)anthracene	0.20000	0.2	20.8	50.00
3,3'-Dichlorobenzidine	0.60000	0.7	16.0	50.00
Chrysene	0.20000	0.2	20.7	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.2	9.3	50.00
Di-n-Octylphthalate	0.20000	0.2	21.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV1
Sequence: SKL0355
Standard ID: K011105

Benzofluoranthenes, Total	0.40000	0.5	27.2	50.00
Benzo(a)pyrene	0.20000	0.2	20.8	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-28.7	50.00
Dibenzo(a,h)anthracene	0.20000	0.1	-25.2	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-38.5	50.00
1-Methylnaphthalene	0.20000	0.2	15.9	50.00
2-Fluorophenol	0.30000	0.344	14.8	50.00
Phenol-d5	0.30000	0.307	2.4	50.00
2-Chlorophenol-d4	0.30000	0.332	10.7	50.00
1,2-Dichlorobenzene-d4	0.20000	0.241	20.5	50.00
Nitrobenzene-d5	0.20000	0.214	7.0	50.00
2-Fluorobiphenyl	0.20000	0.223	11.6	50.00
2,4,6-Tribromophenol	0.30000	0.212	-29.4	50.00
p-Terphenyl-d14	0.20000	0.218	8.8	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Page 1

Date : 31-DEC-2022 14:29

Client ID:

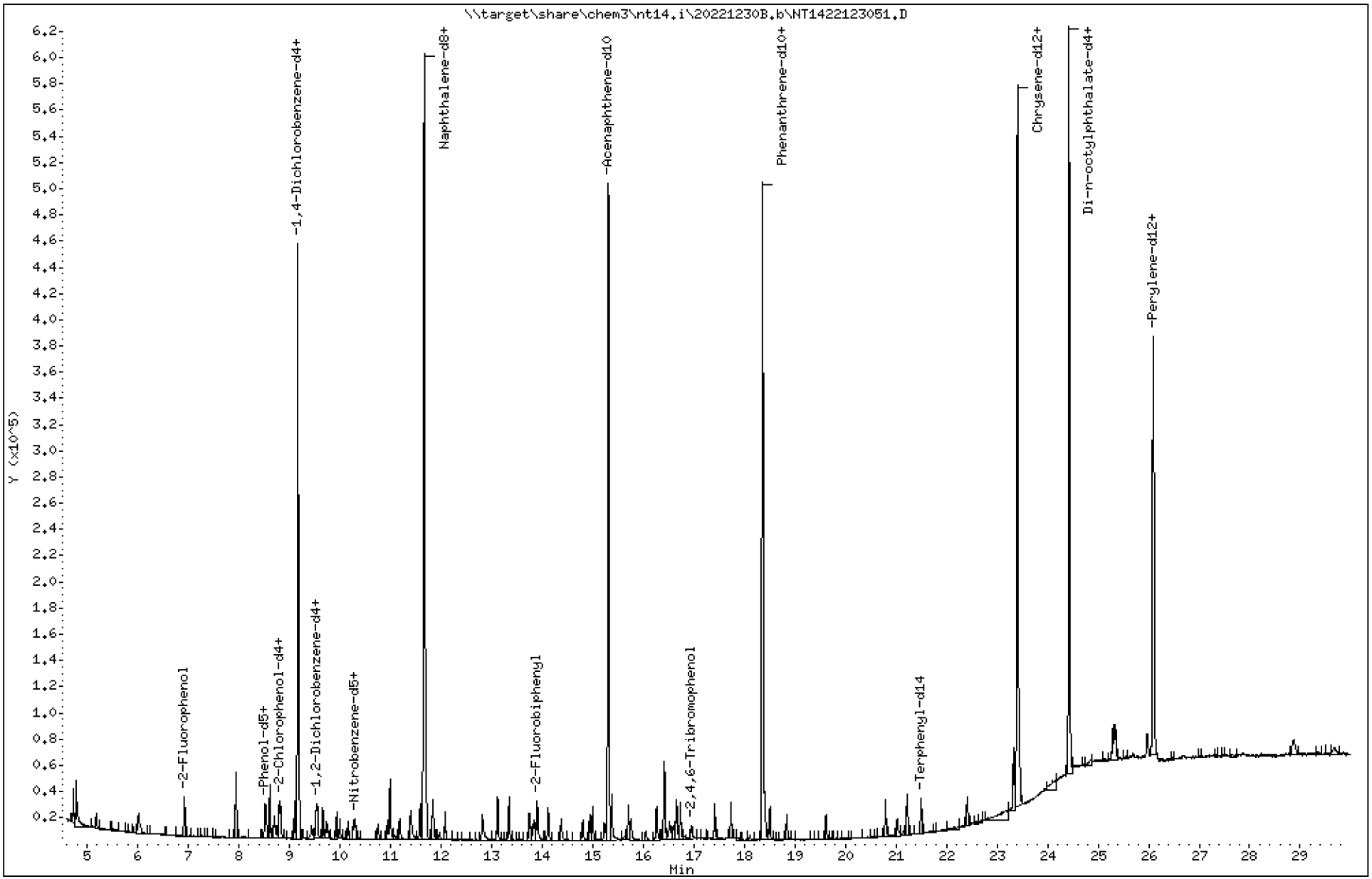
Instrument: nt14.i

Sample Info: SKL0355-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 1991 of 5449

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

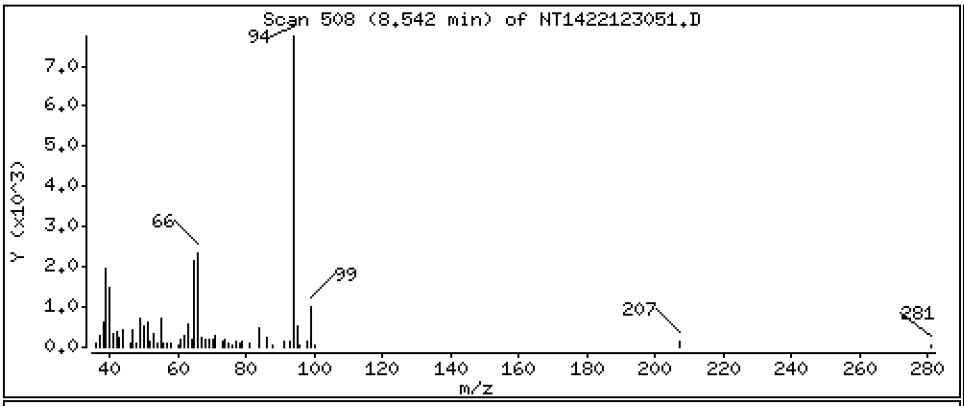
Operator: VTS

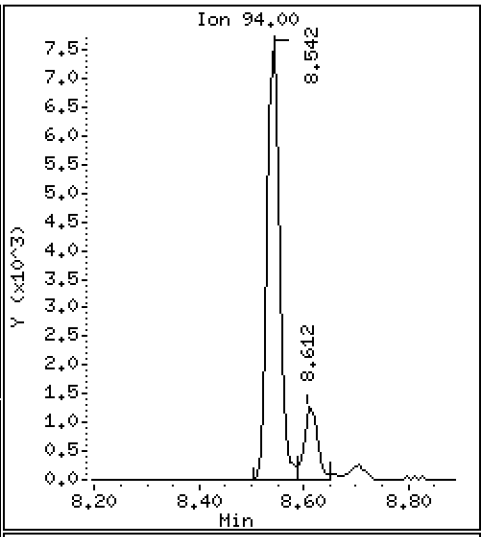
Column phase: ZB-5msi

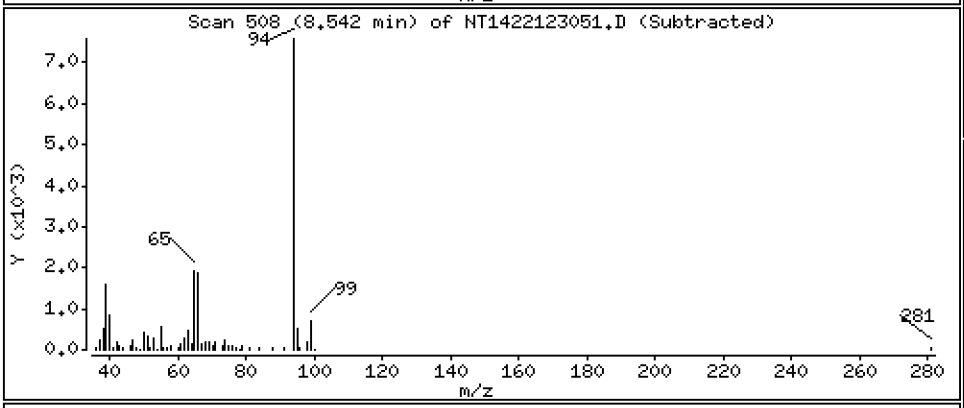
Column diameter: 0.25

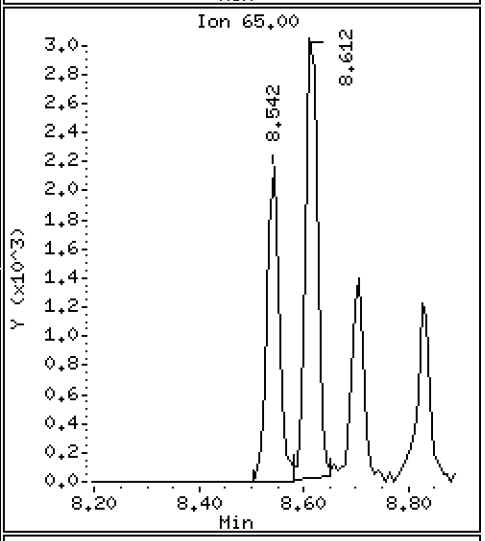
3 Phenol

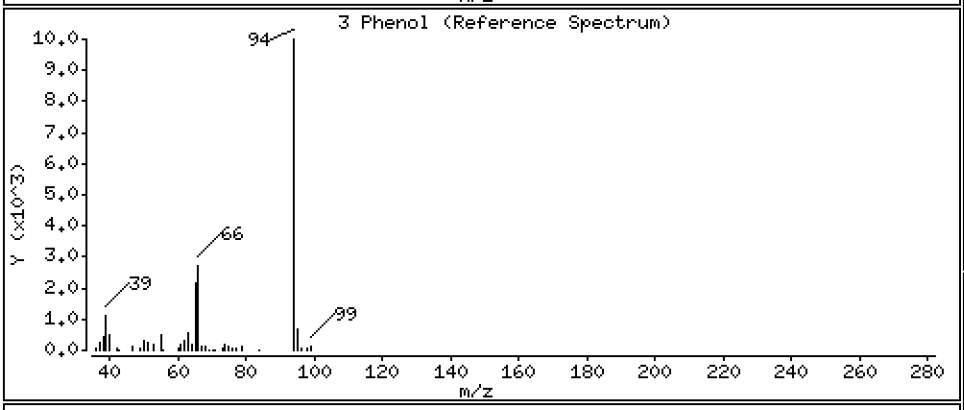
Concentration: 0.2294 ug/mL

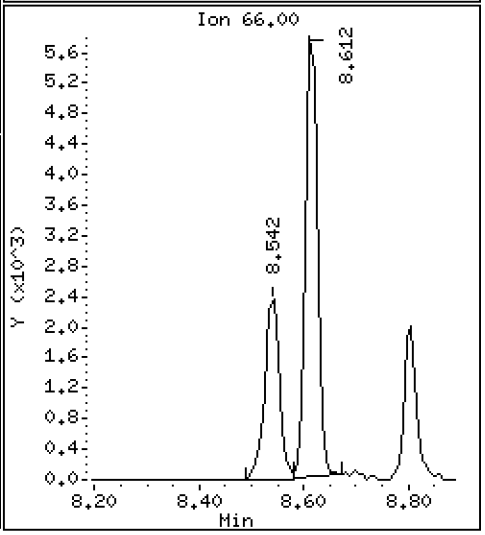


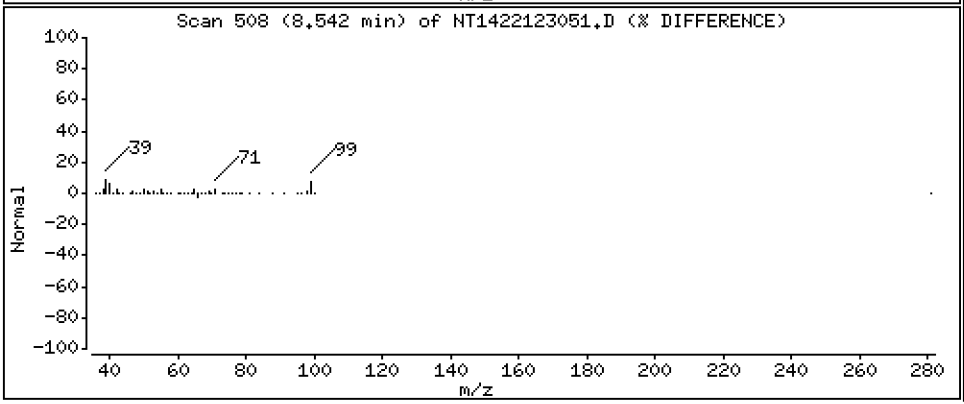












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

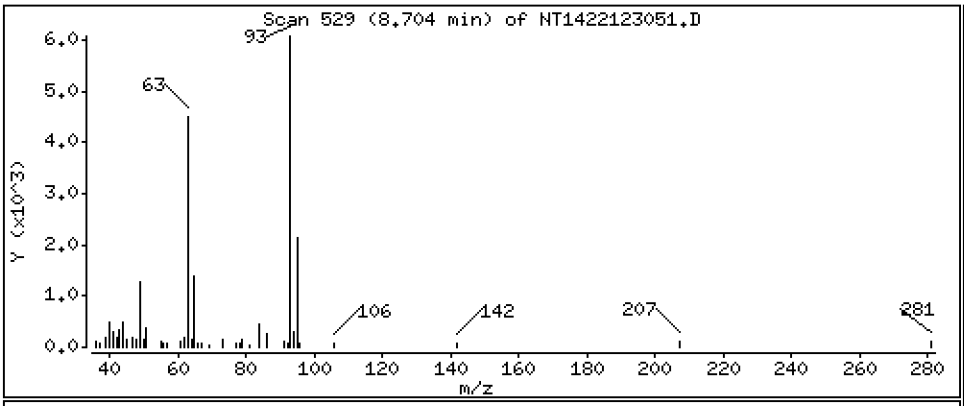
Operator: VTS

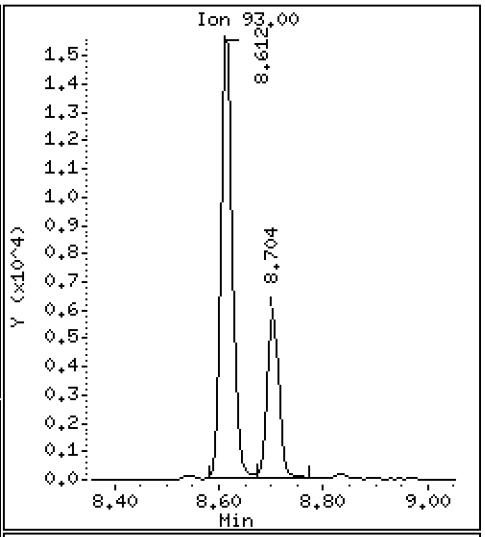
Column phase: ZB-5msi

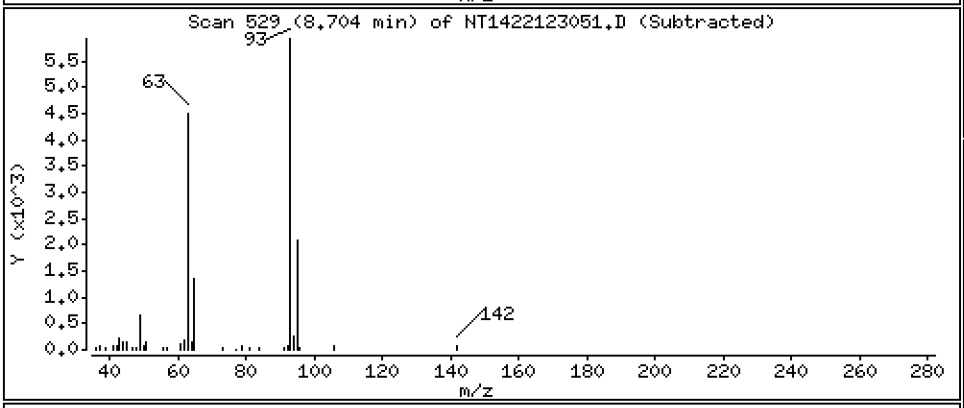
Column diameter: 0.25

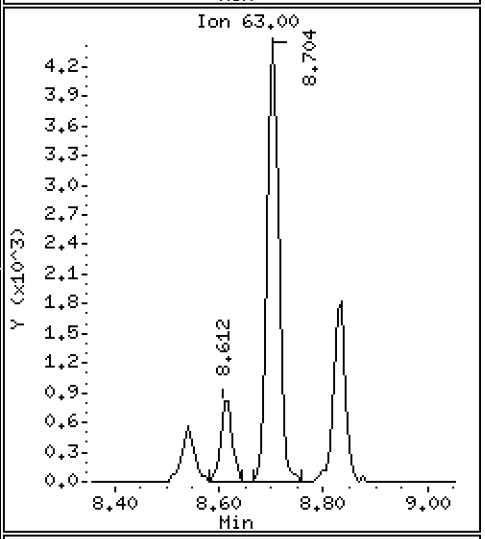
4 Bis(2-Chloroethyl)ether

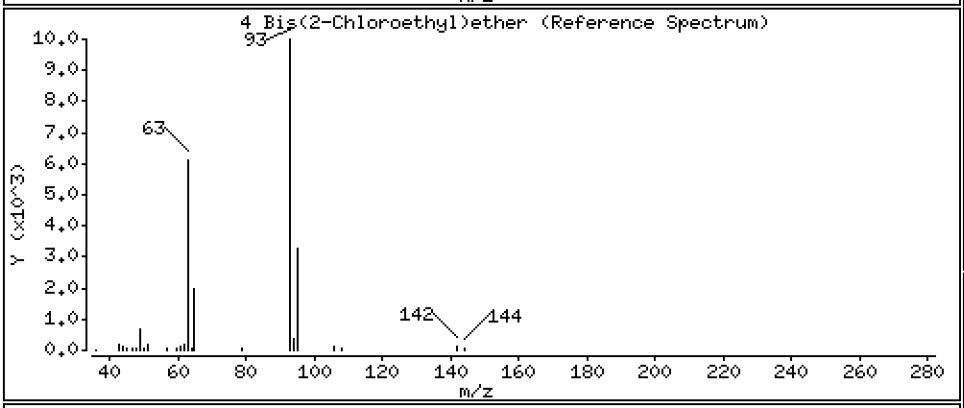
Concentration: 0.2390 ug/mL

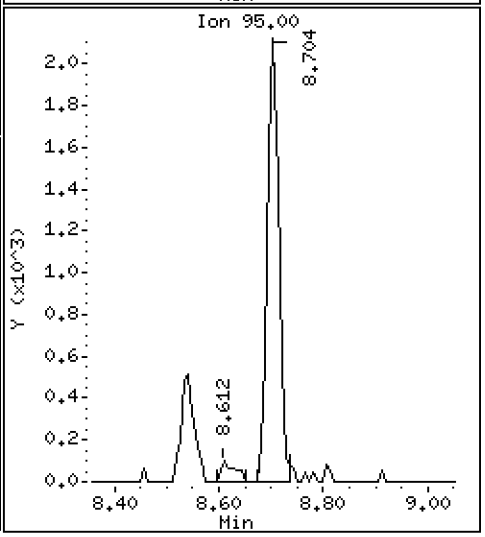


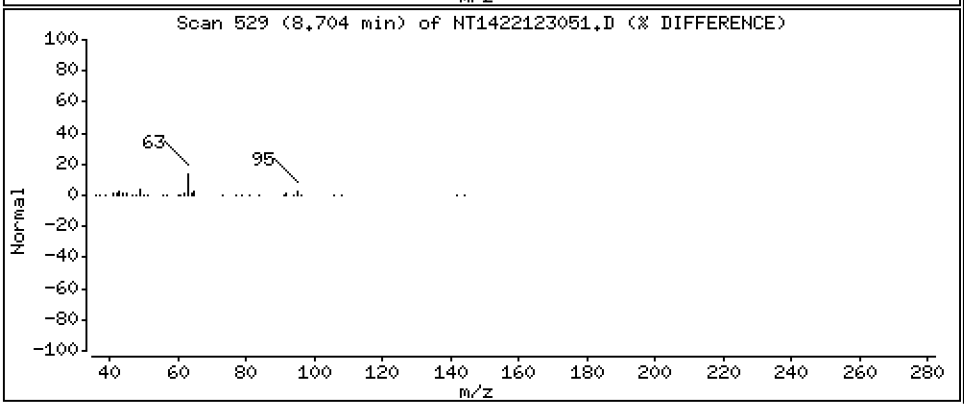












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

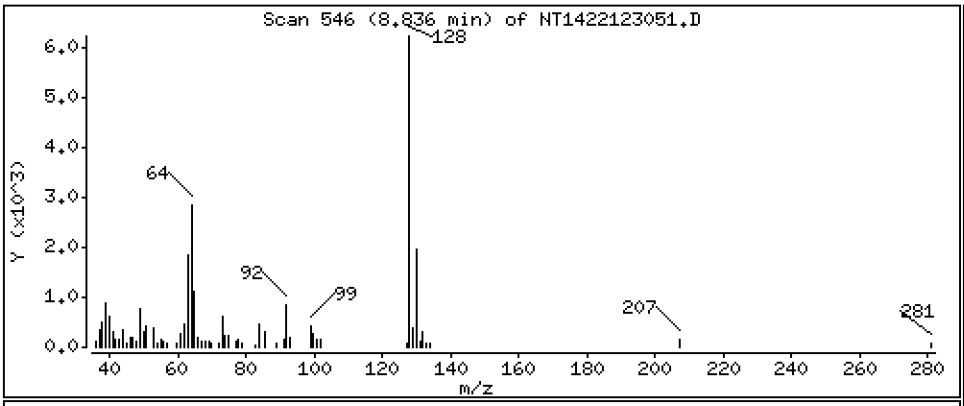
Operator: VTS

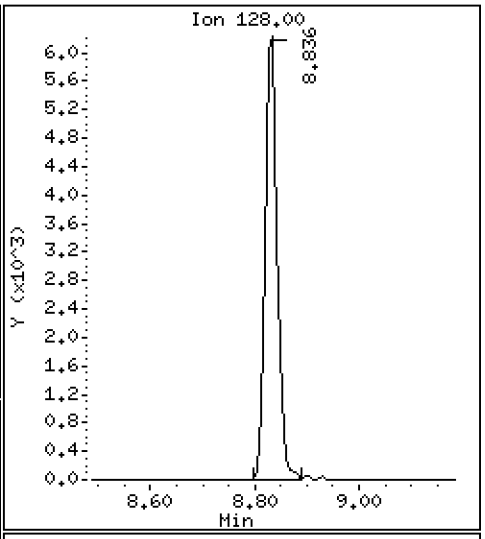
Column phase: ZB-5msi

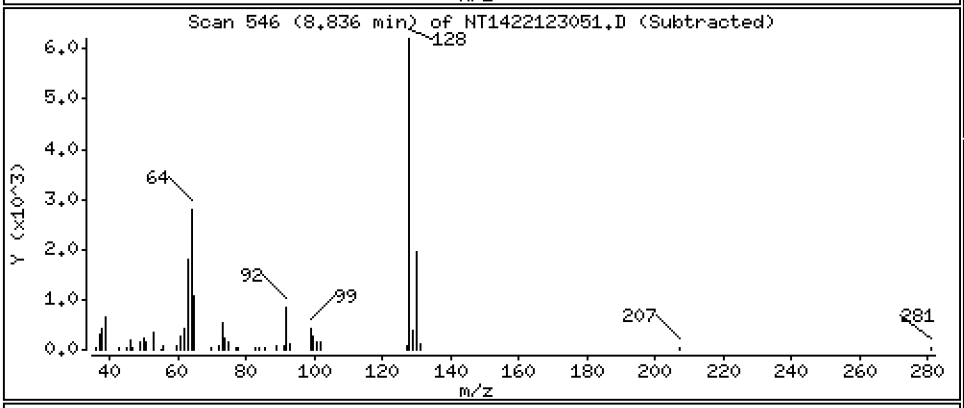
Column diameter: 0.25

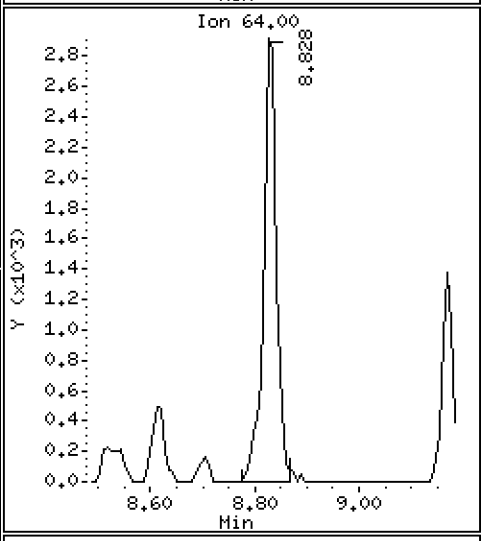
6 2-Chlorophenol

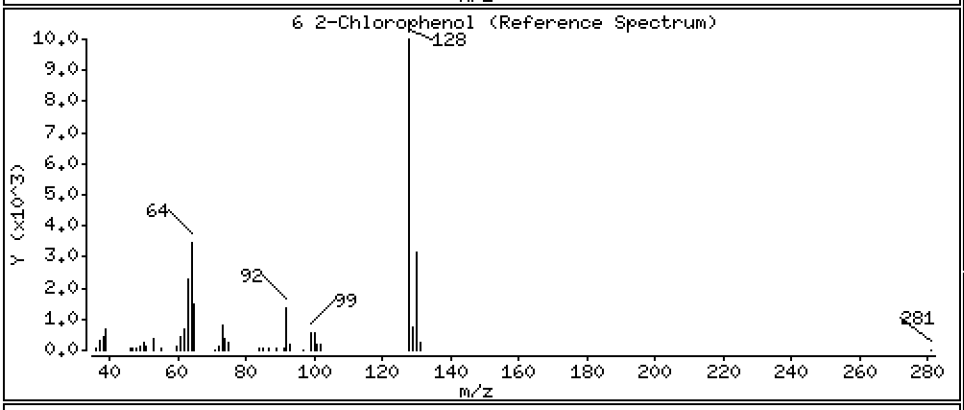
Concentration: 0.2355 ug/mL

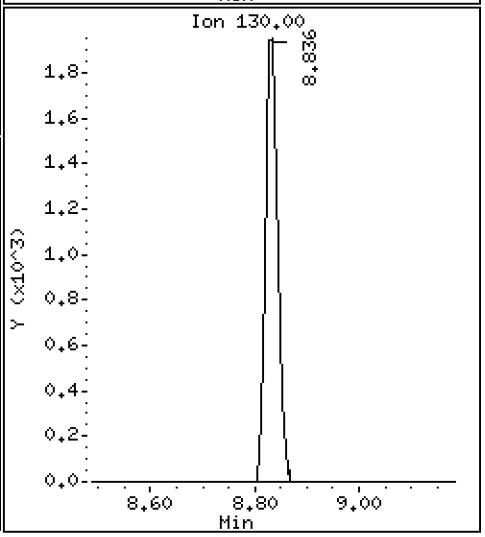


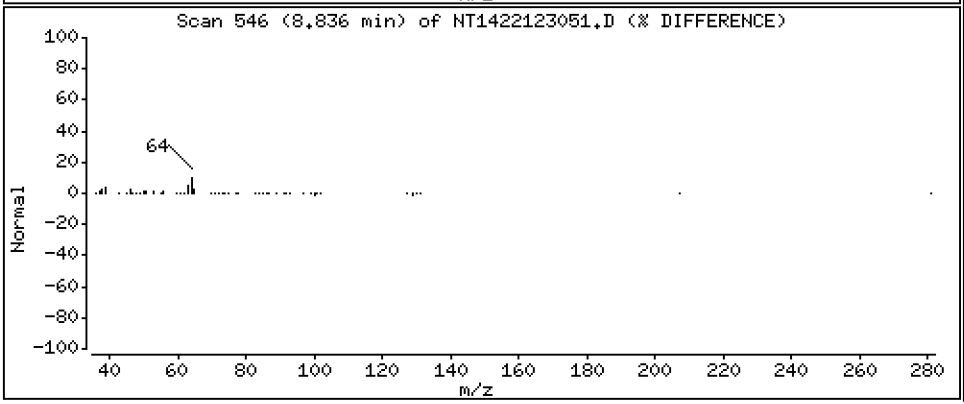












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

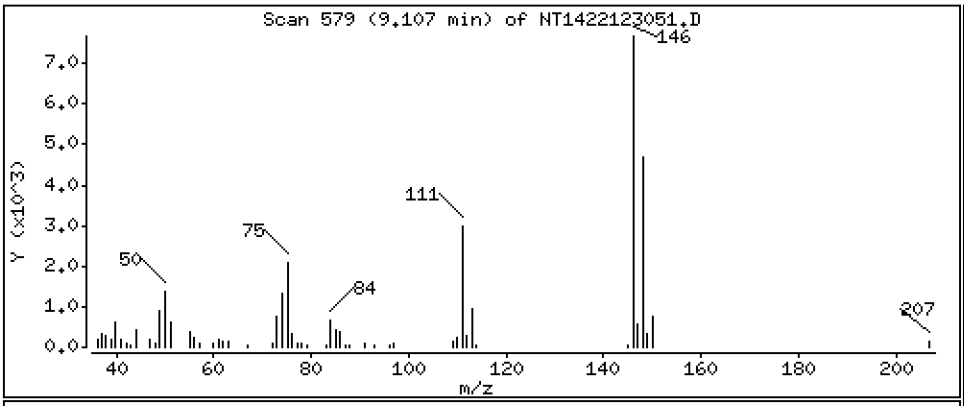
Operator: VTS

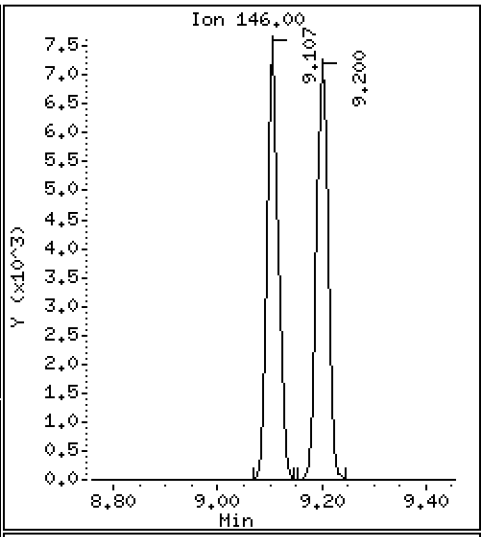
Column phase: ZB-5msi

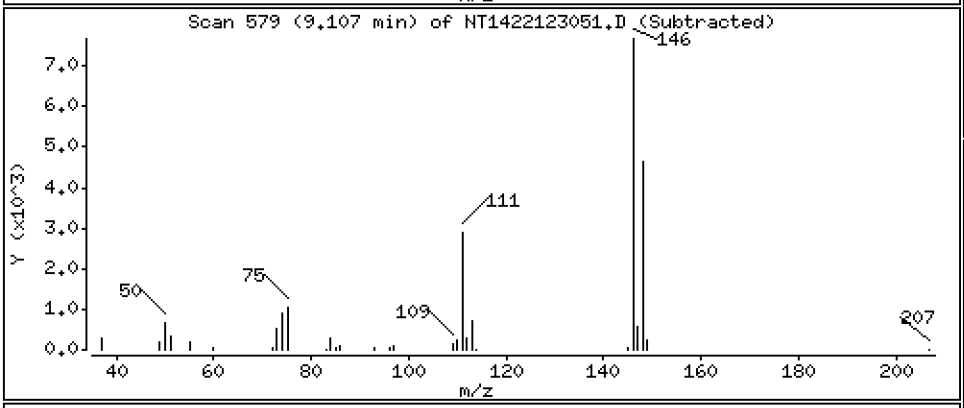
Column diameter: 0.25

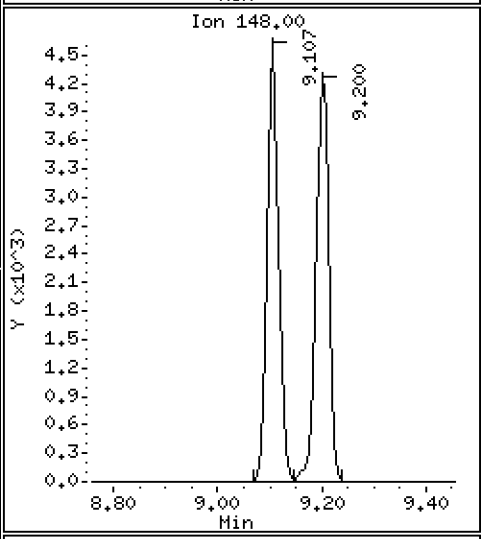
7 1,3-Dichlorobenzene

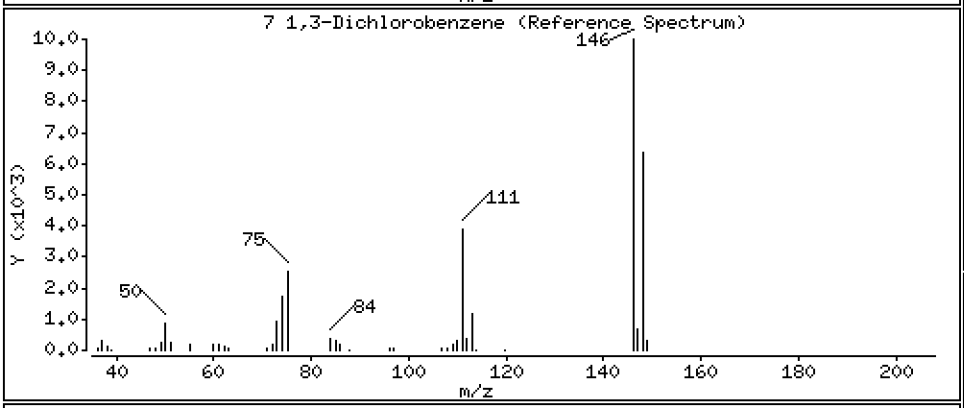
Concentration: 0.2457 ug/mL

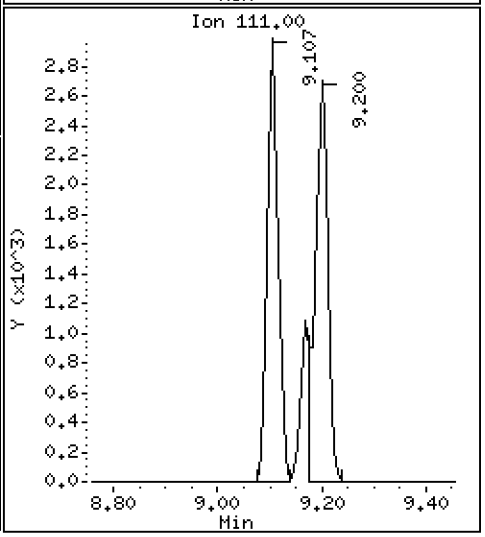


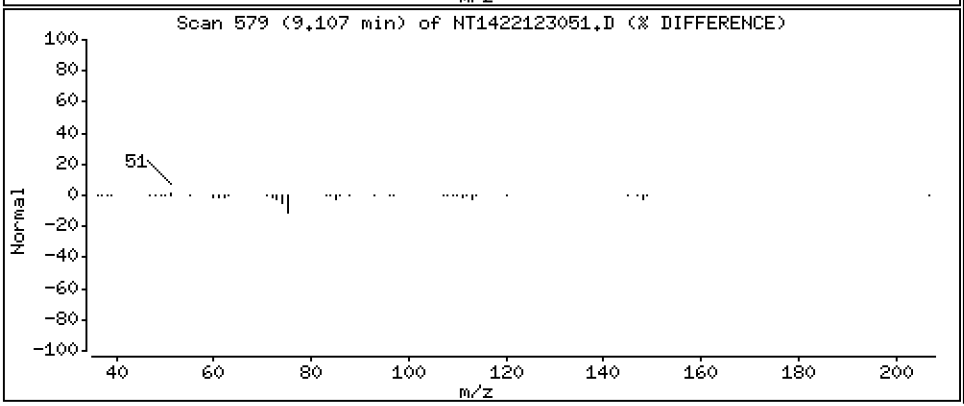












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

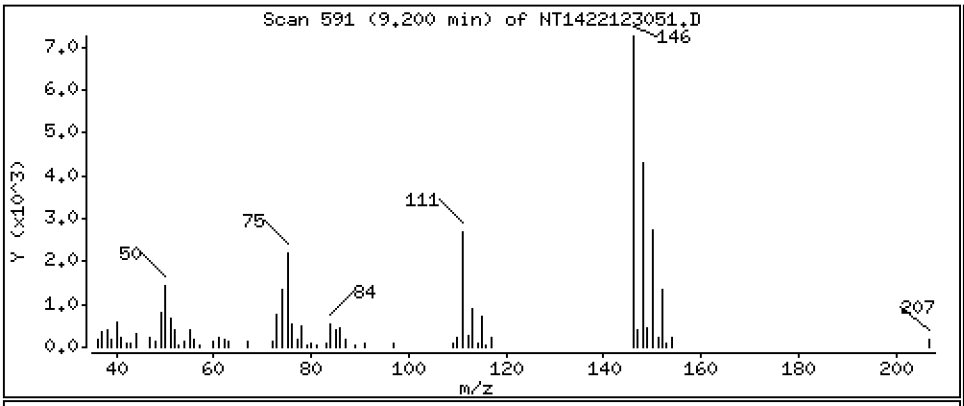
Operator: VTS

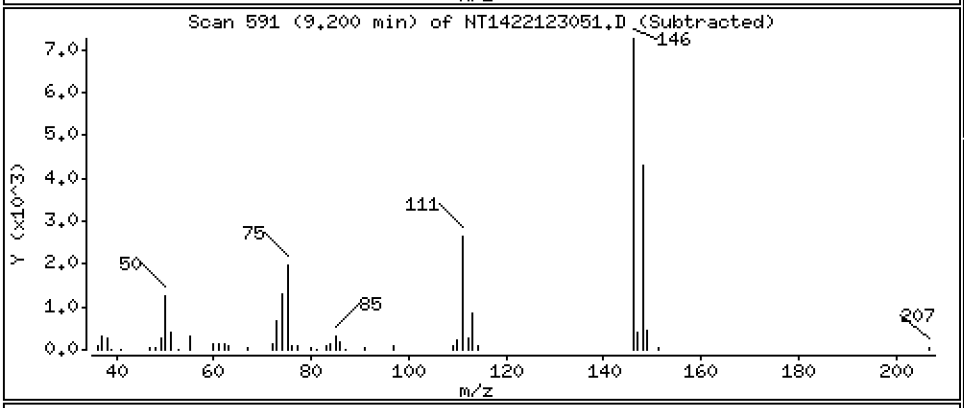
Column phase: ZB-5msi

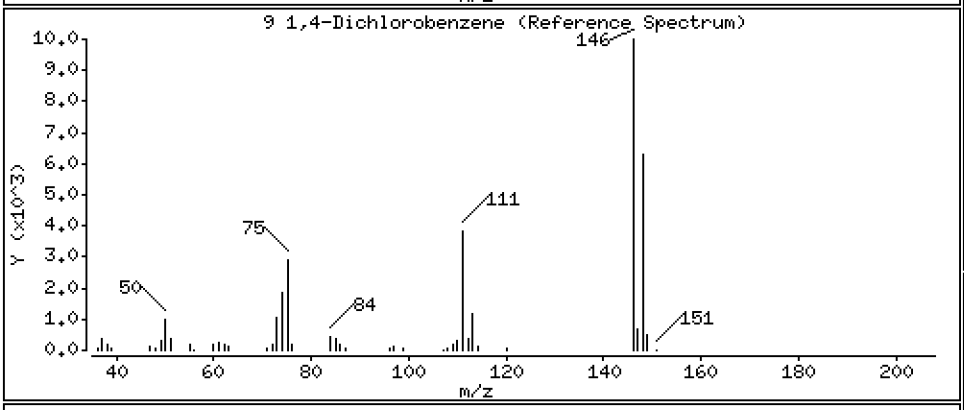
Column diameter: 0.25

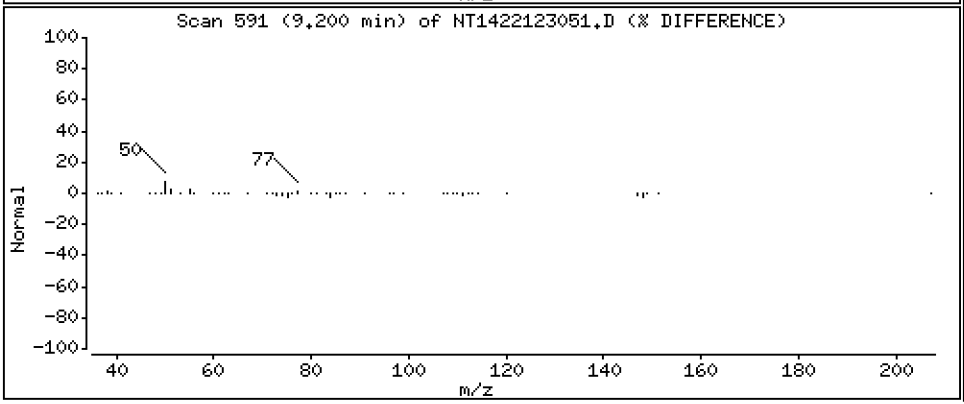
9 1,4-Dichlorobenzene

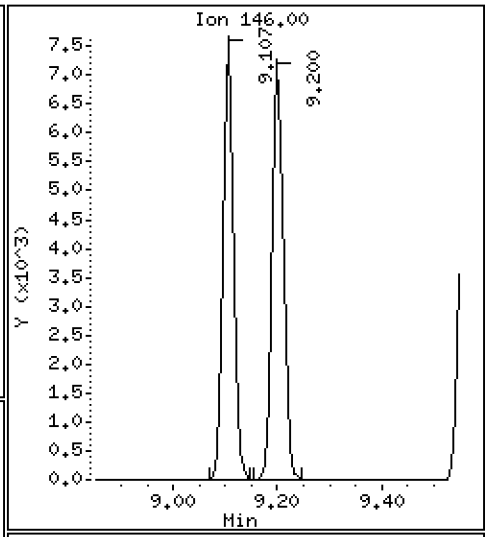
Concentration: 0.2487 ug/mL

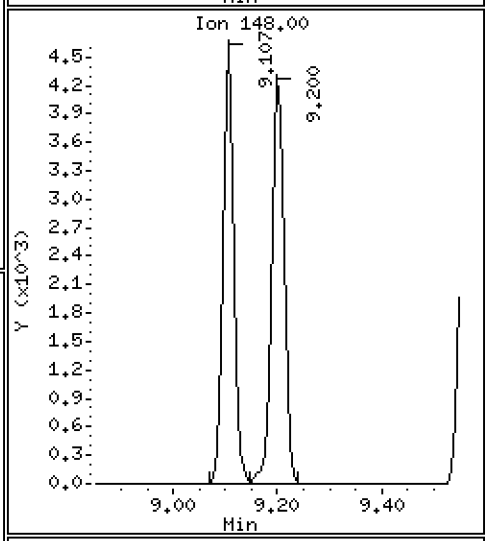


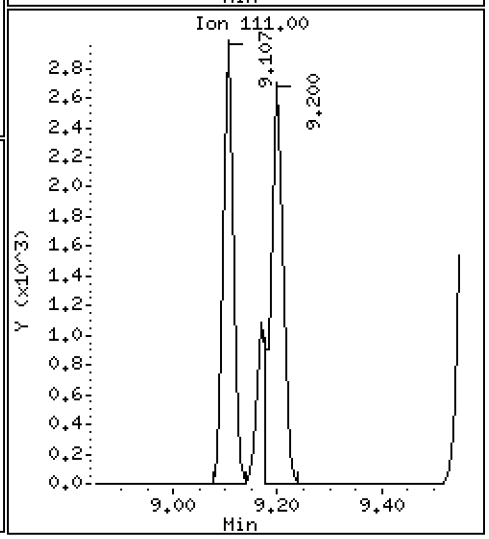












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

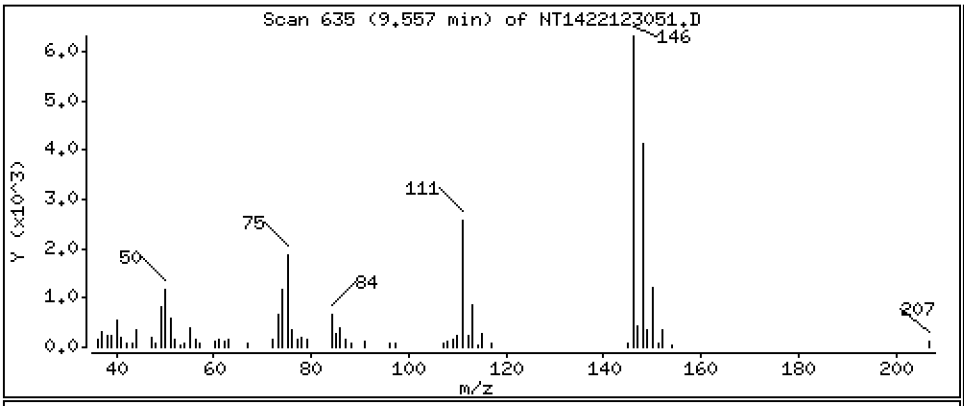
Operator: VTS

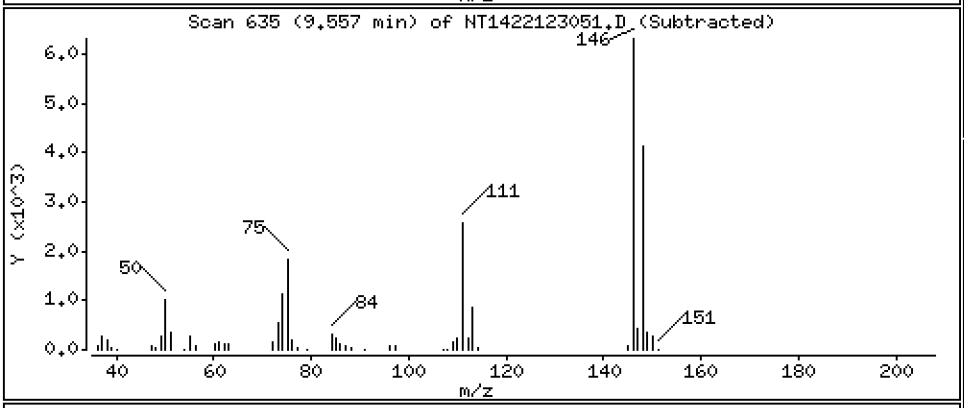
Column phase: ZB-5msi

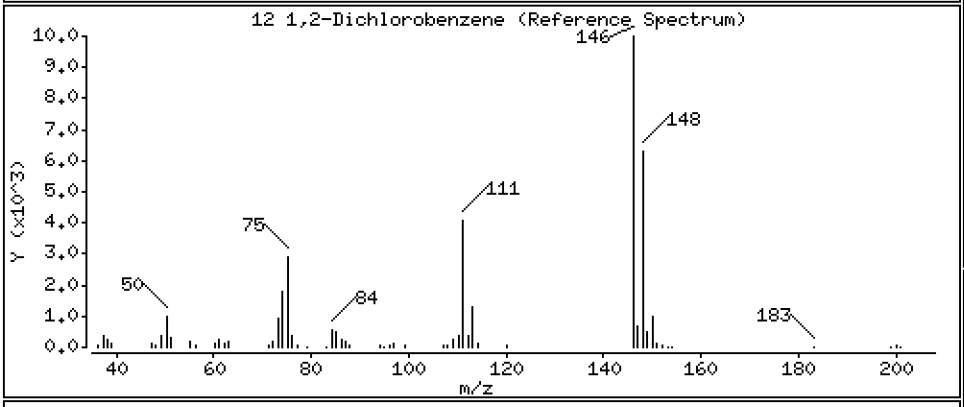
Column diameter: 0.25

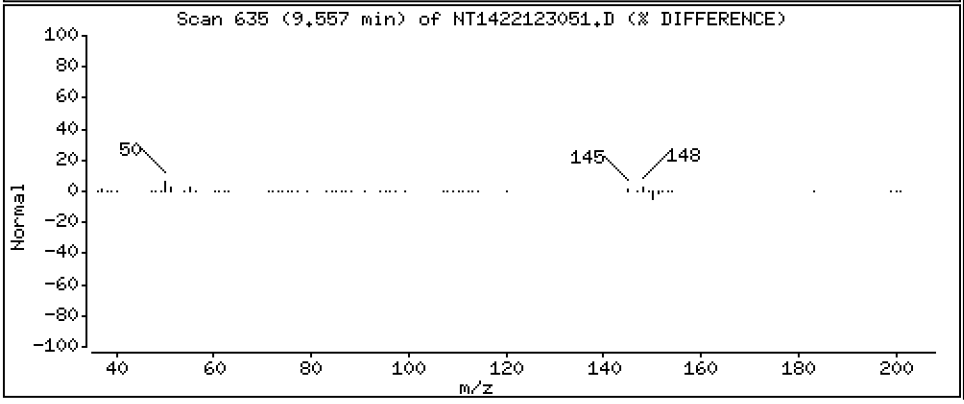
12 1,2-Dichlorobenzene

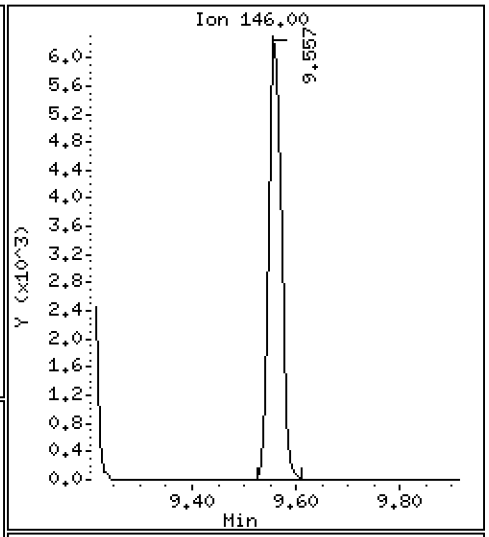
Concentration: 0.2432 ug/mL

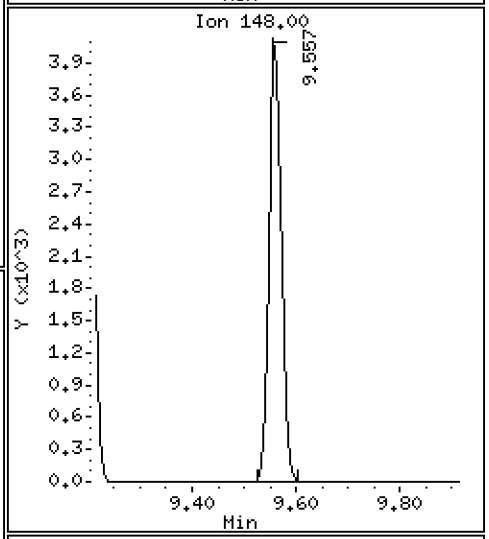


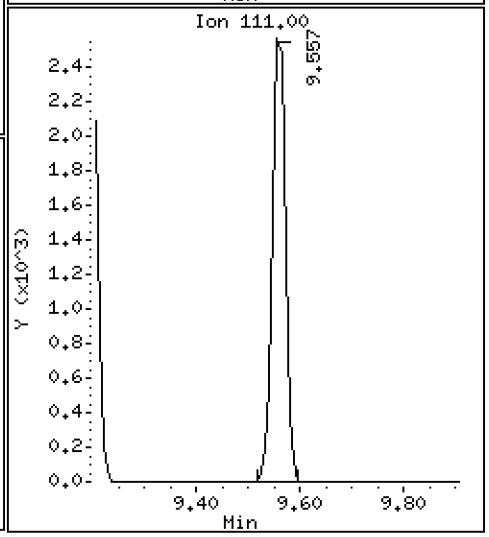












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

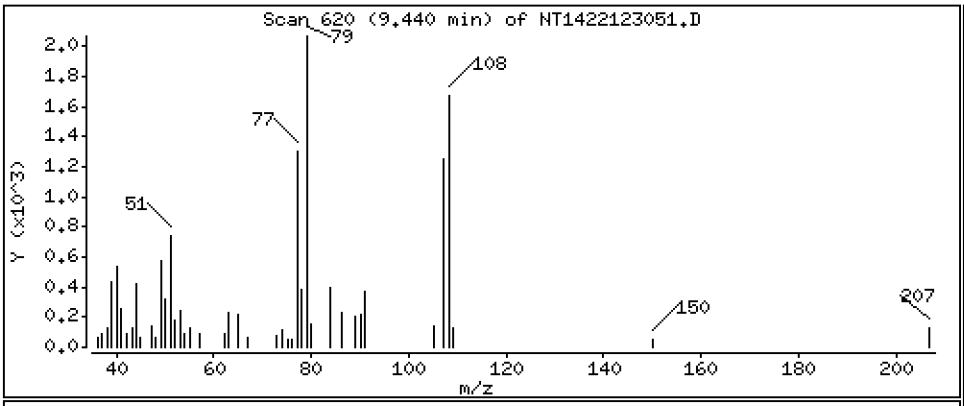
Operator: VTS

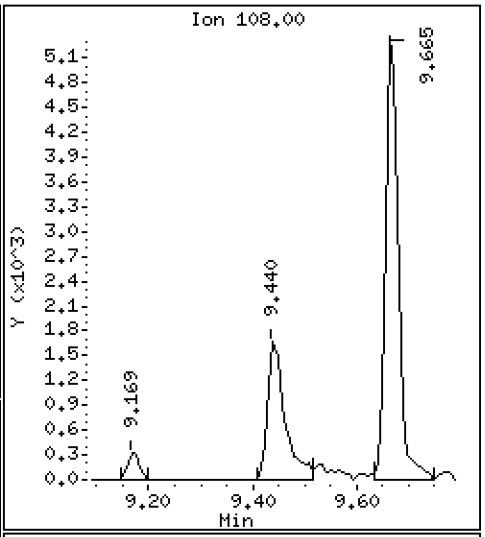
Column phase: ZB-5msi

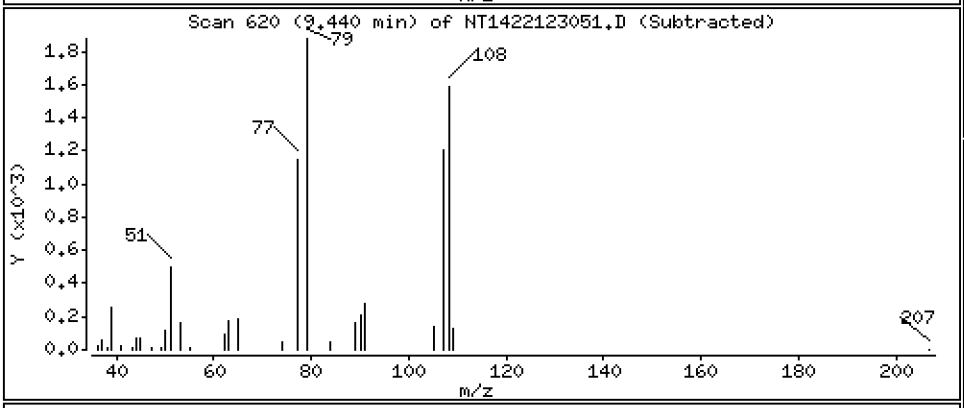
Column diameter: 0.25

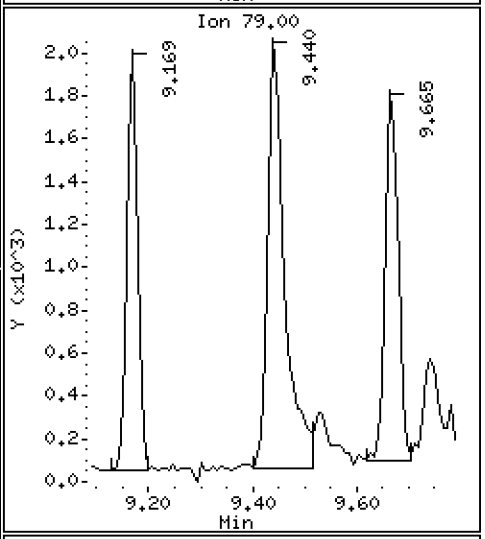
11 Benzyl alcohol

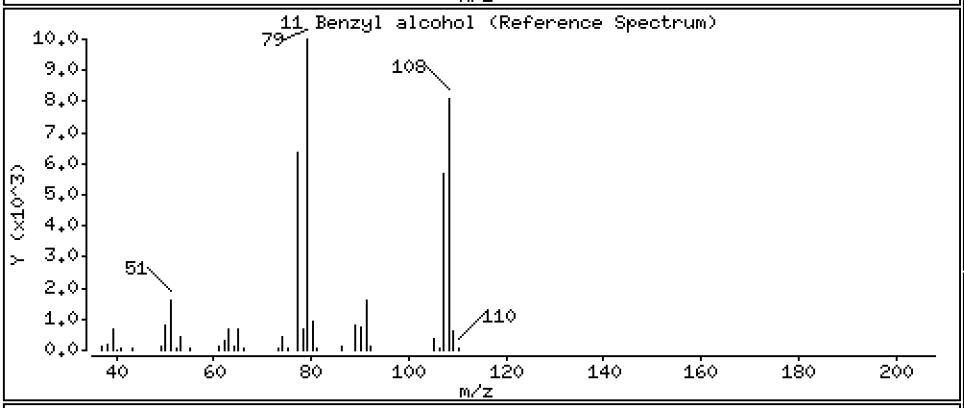
Concentration: 0.1623 ug/mL

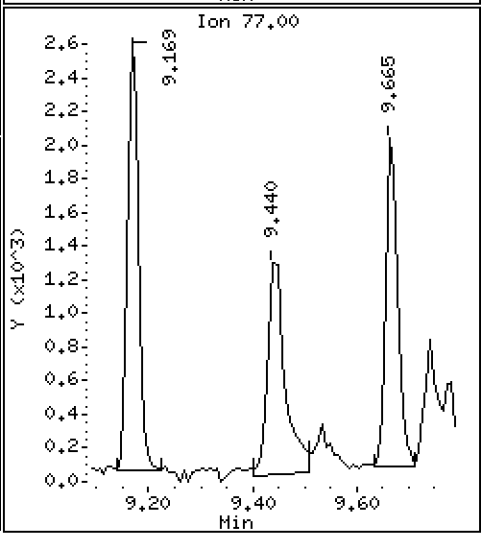


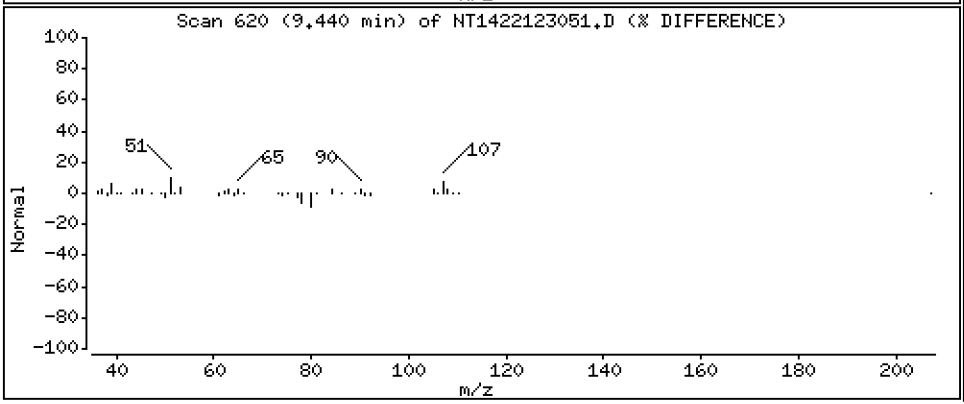












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

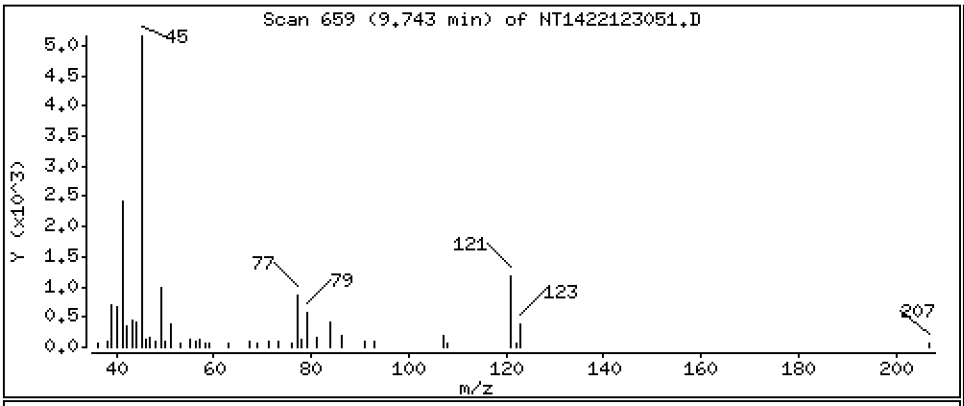
Operator: VTS

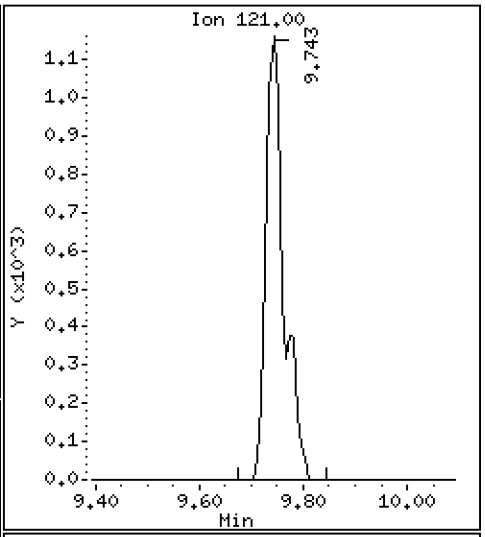
Column phase: ZB-5msi

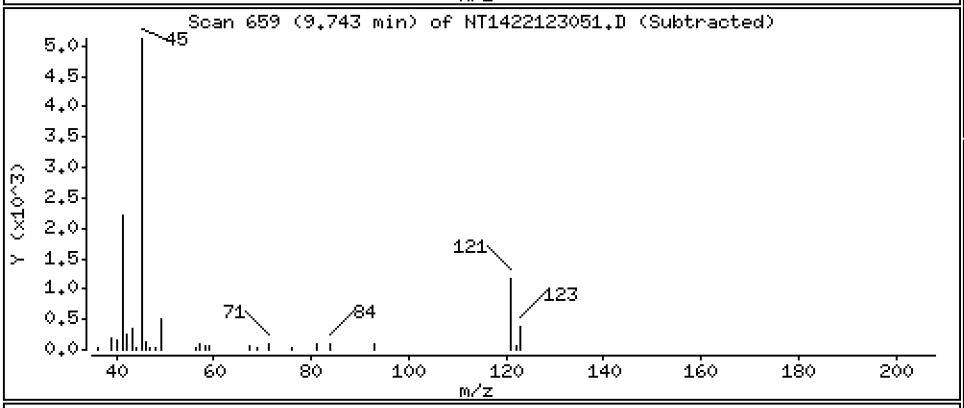
Column diameter: 0.25

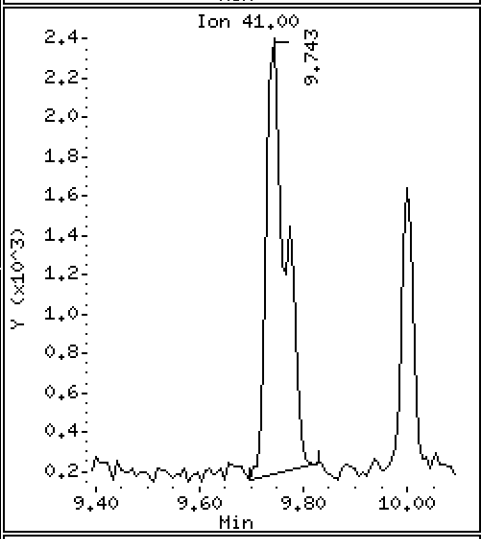
14 2,2'-oxybis(1-Chloropropane)

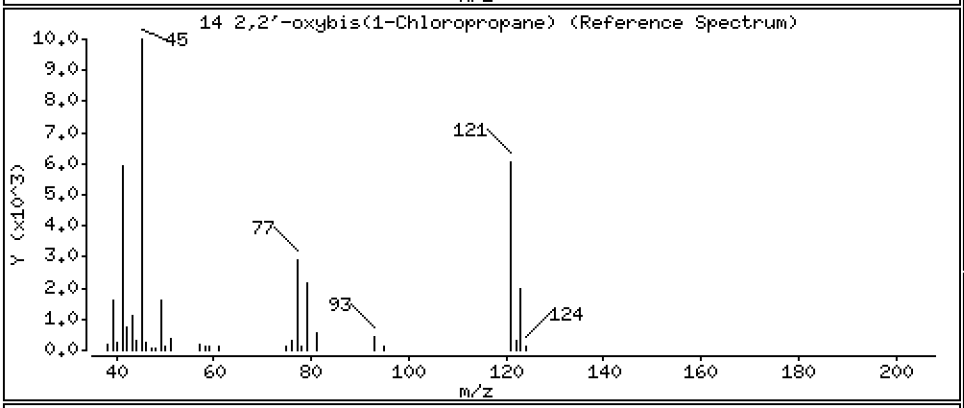
Concentration: 0.2236 ug/mL

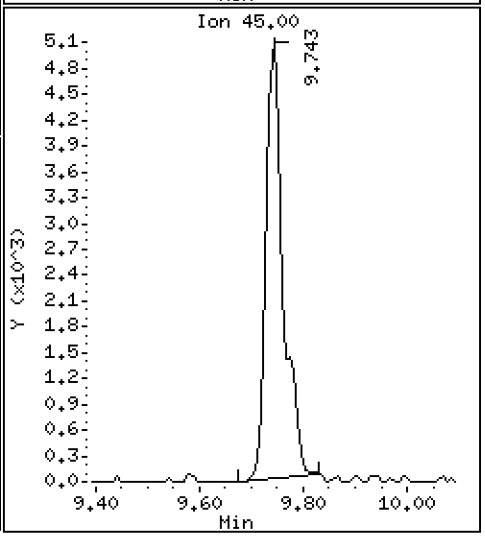


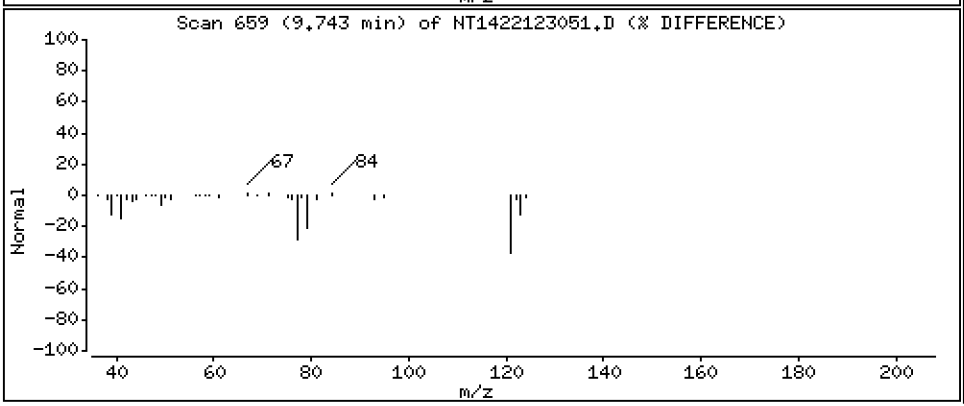












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

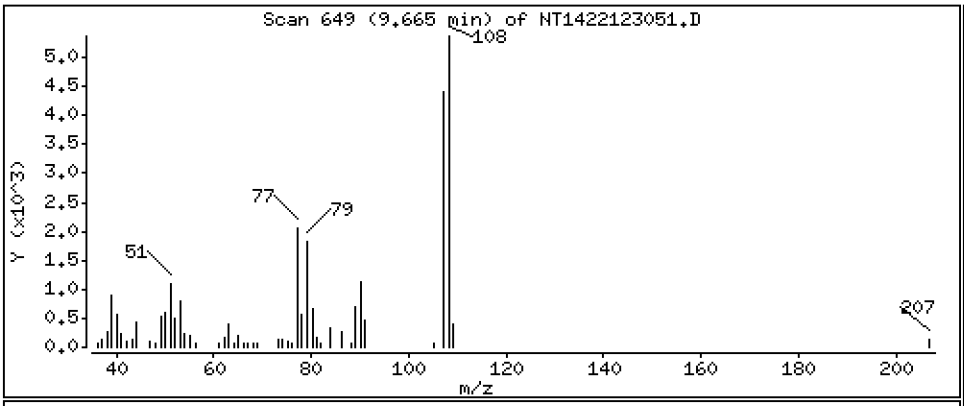
Operator: VTS

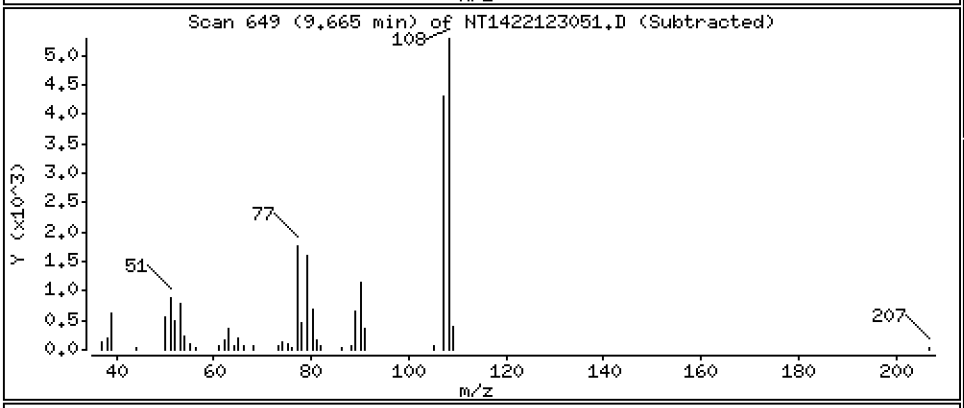
Column phase: ZB-5msi

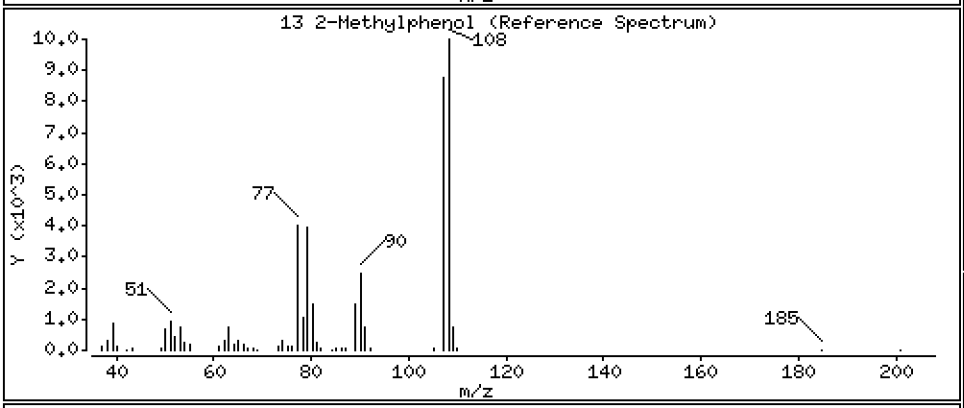
Column diameter: 0.25

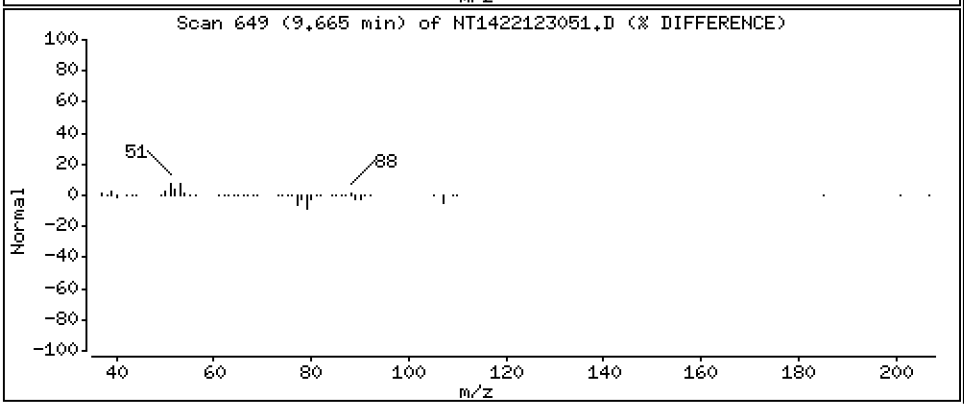
13 2-Methylphenol

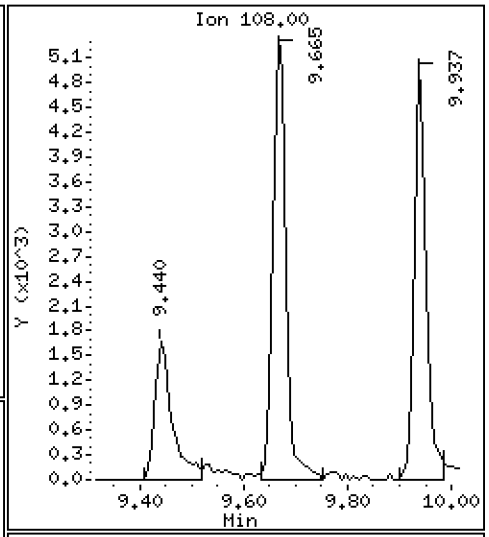
Concentration: 0.2341 ug/mL

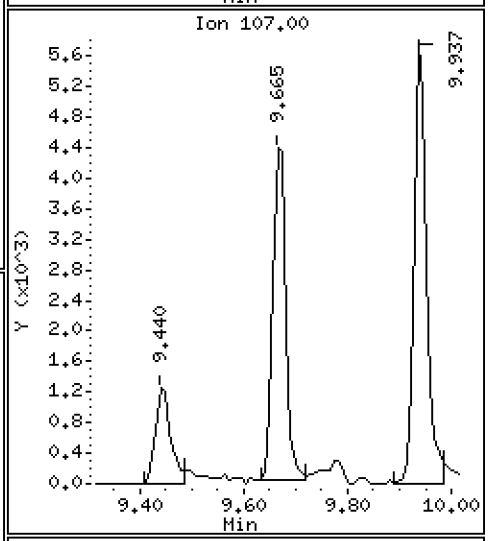


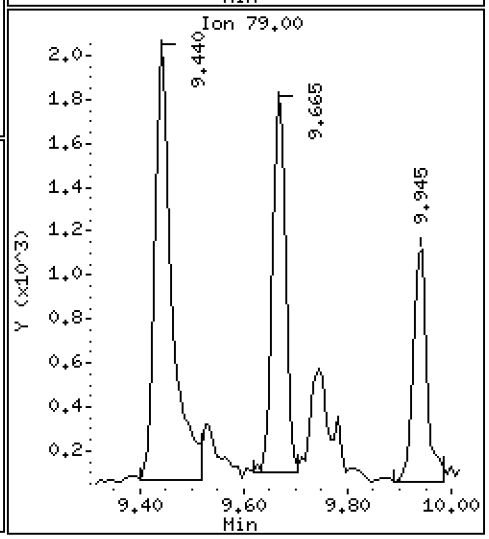












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

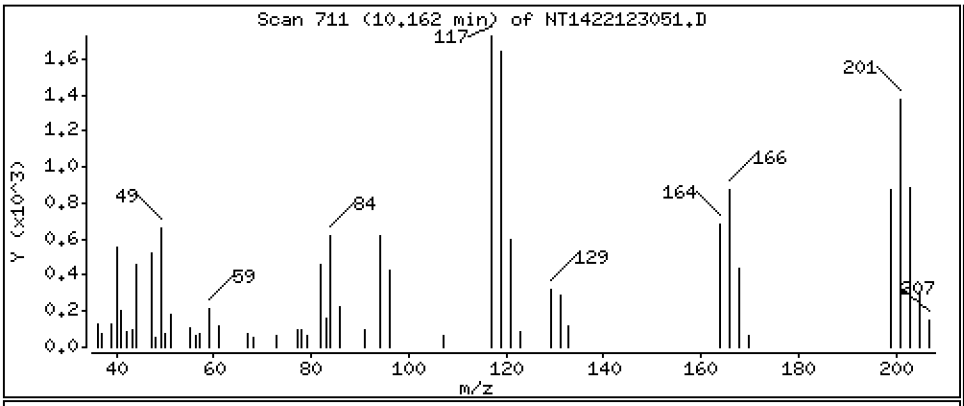
Operator: VTS

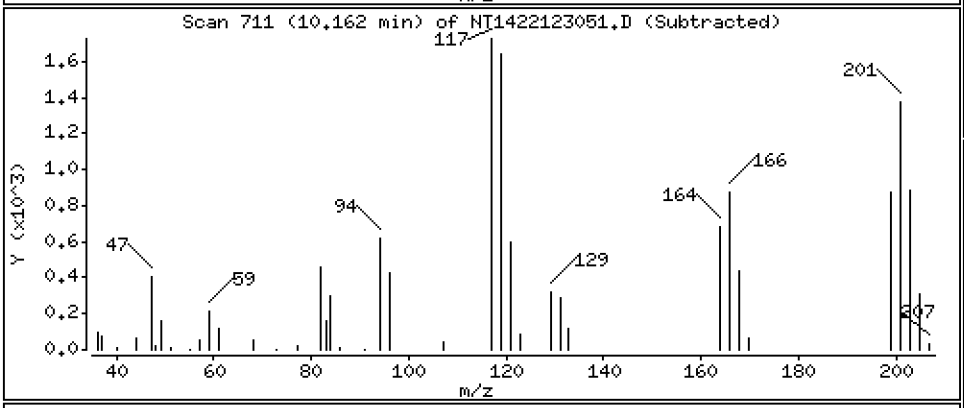
Column phase: ZB-5msi

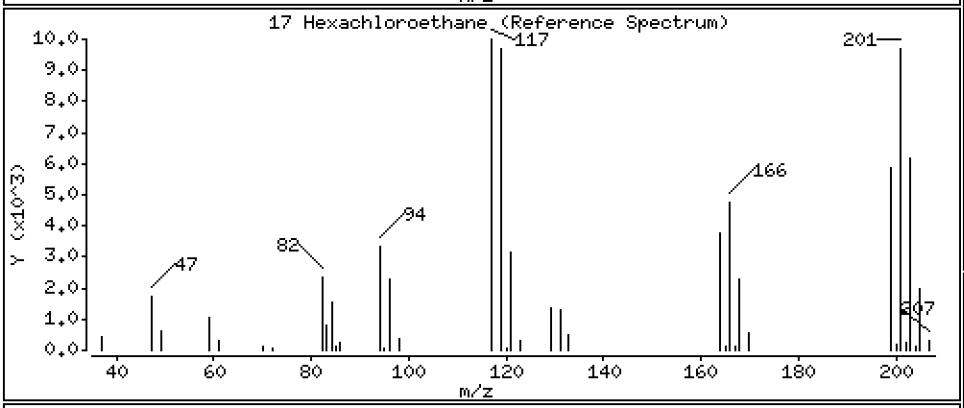
Column diameter: 0.25

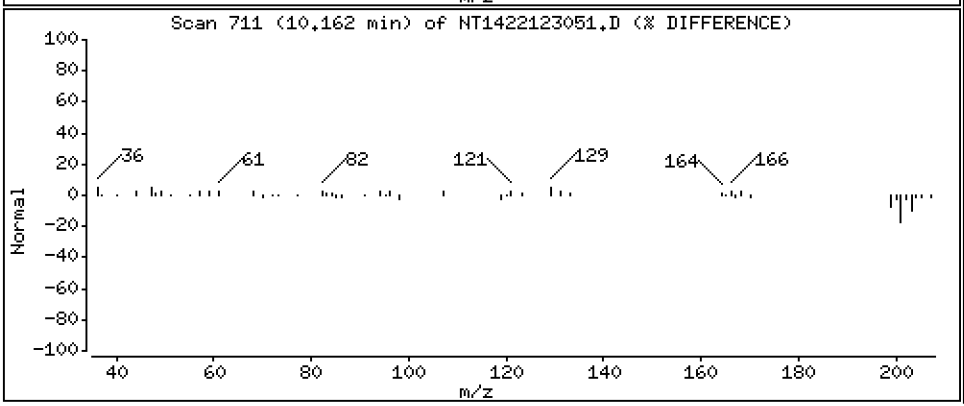
17 Hexachloroethane

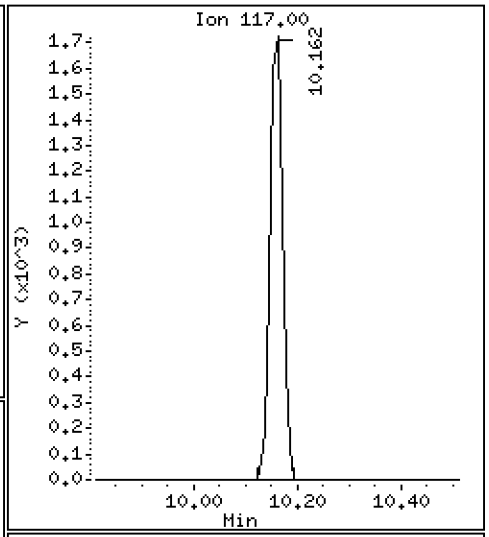
Concentration: 0.1755 ug/mL

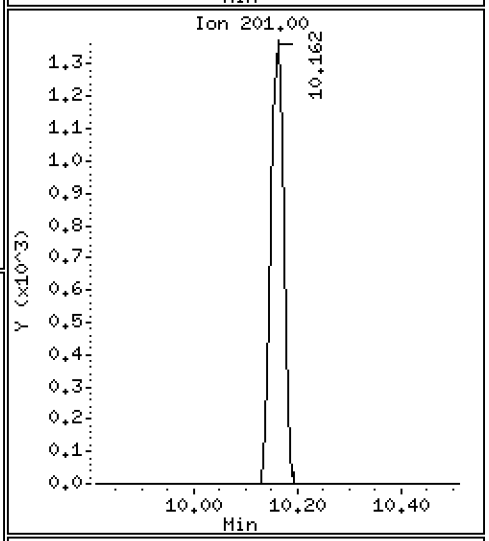


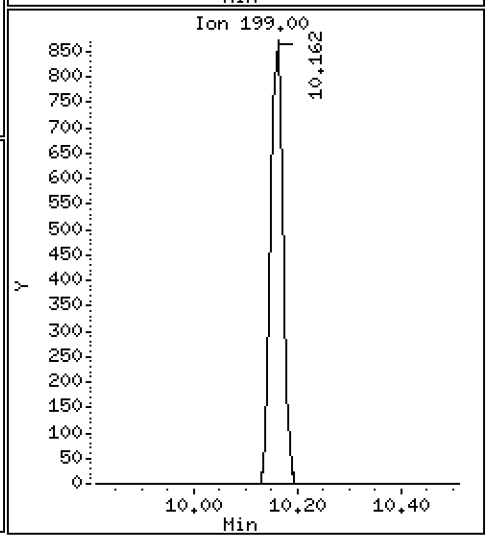












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

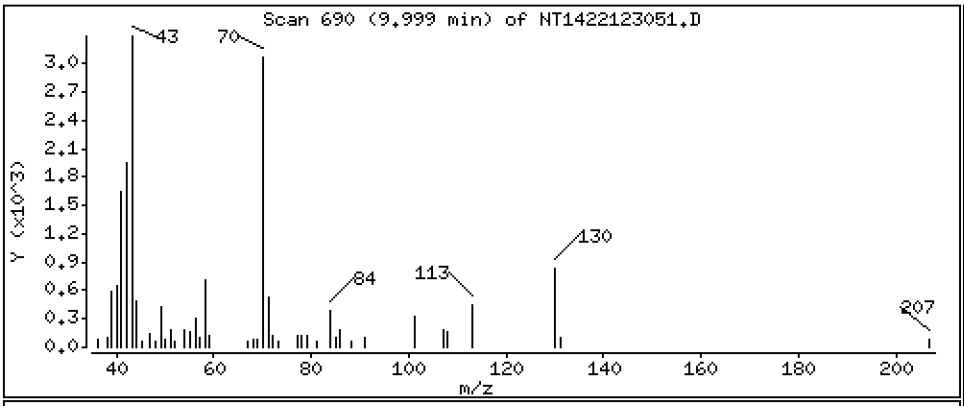
Operator: VTS

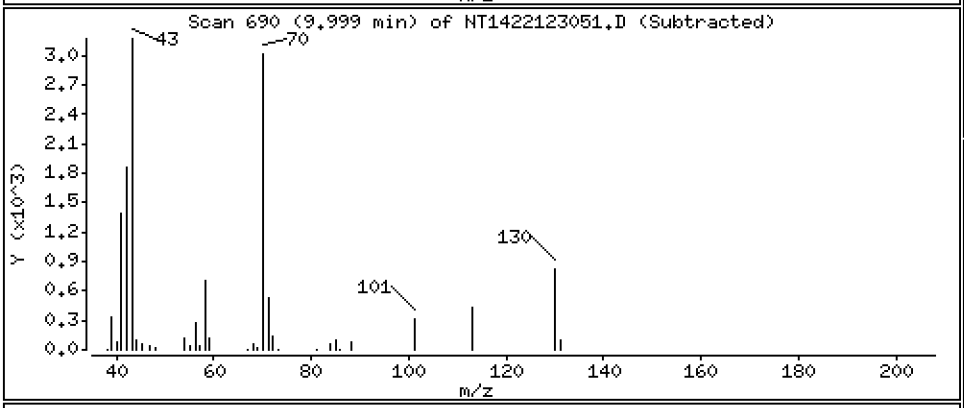
Column phase: ZB-5msi

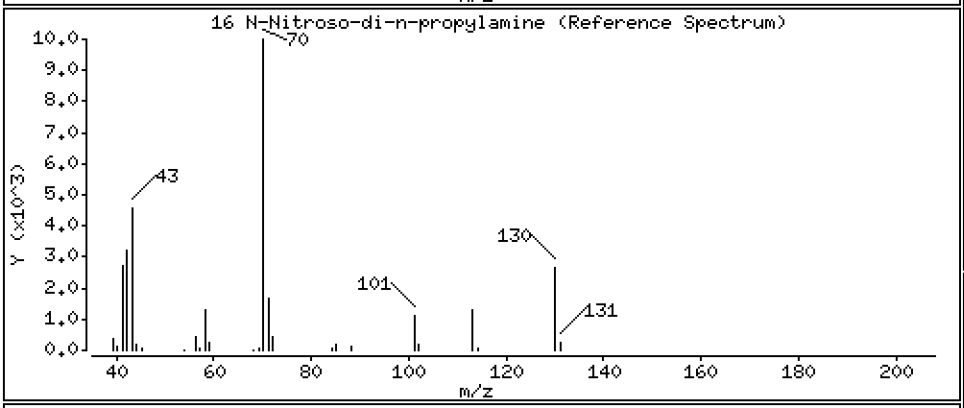
Column diameter: 0.25

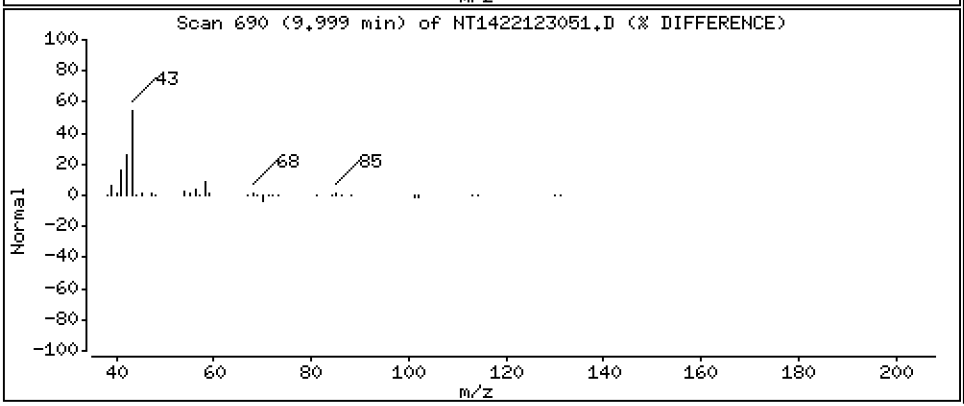
16 N-Nitroso-di-n-propylamine

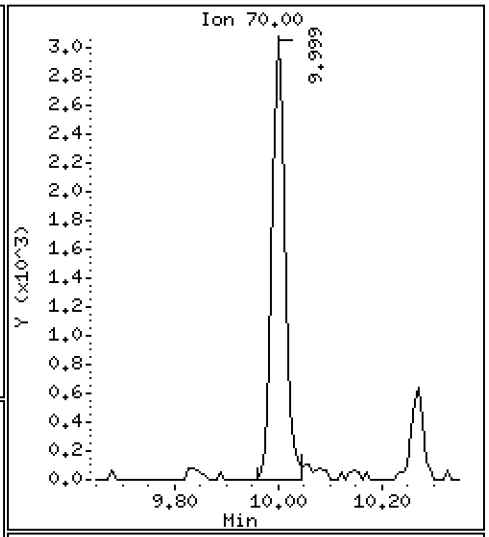
Concentration: 0.2208 ug/mL

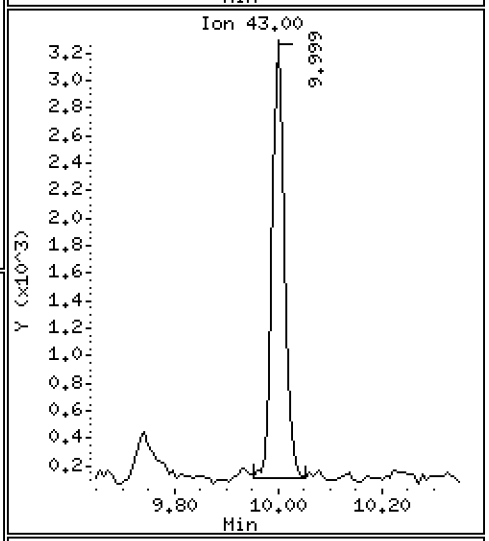


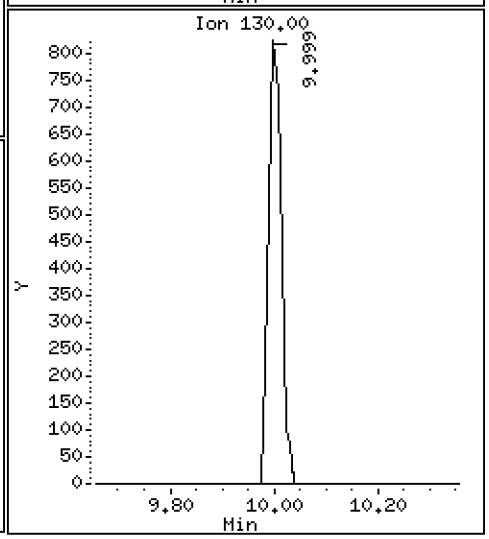












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

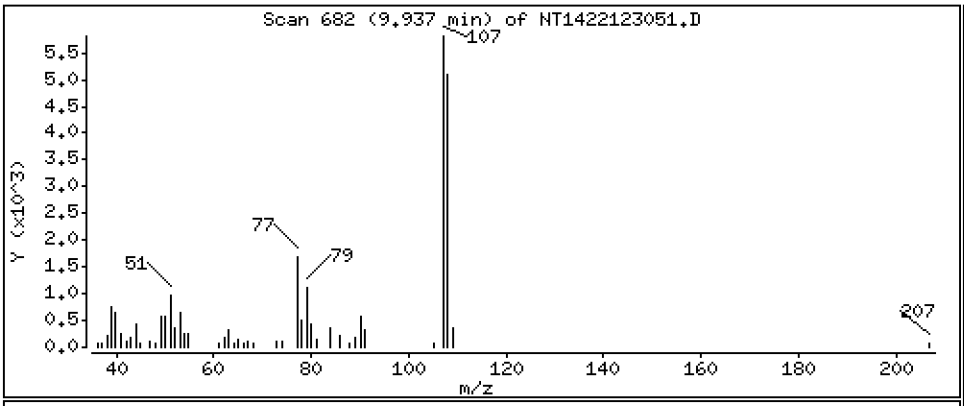
Operator: VTS

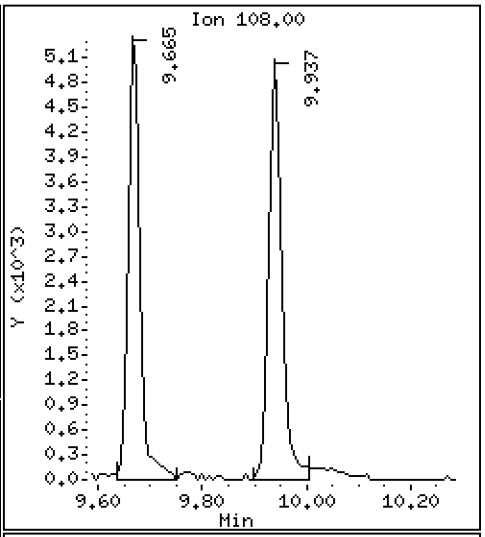
Column phase: ZB-5msi

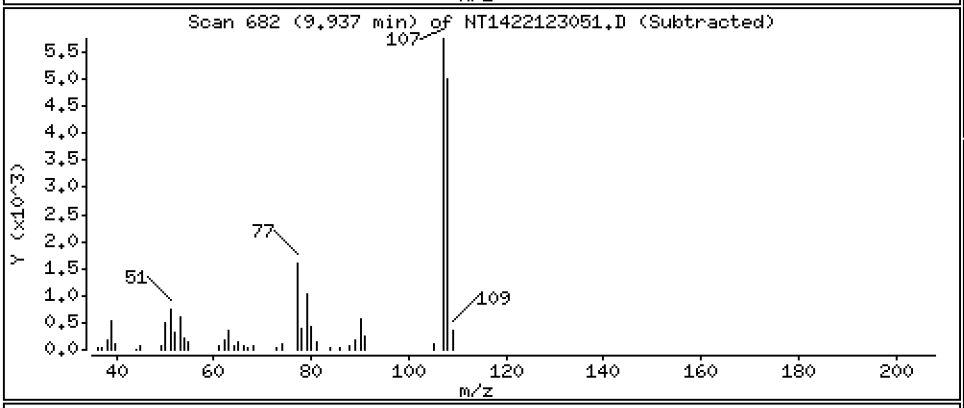
Column diameter: 0.25

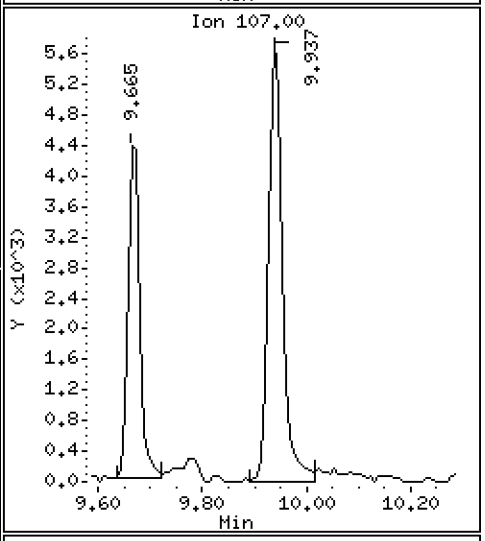
15 4-Methylphenol

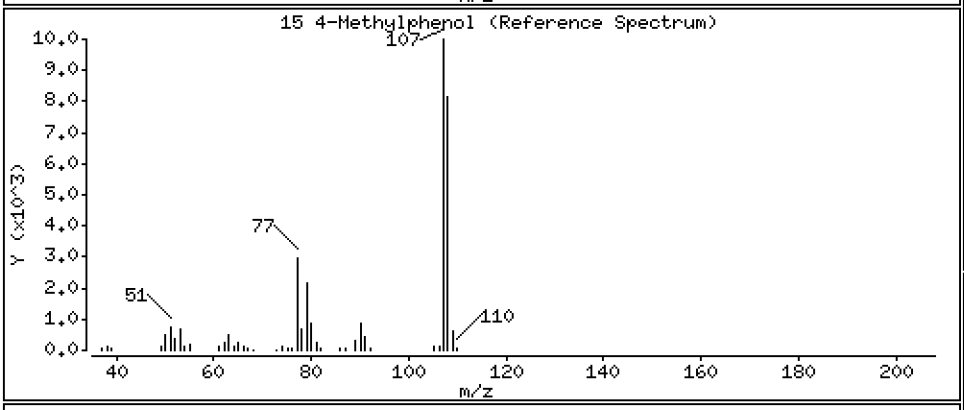
Concentration: 0.2121 ug/mL

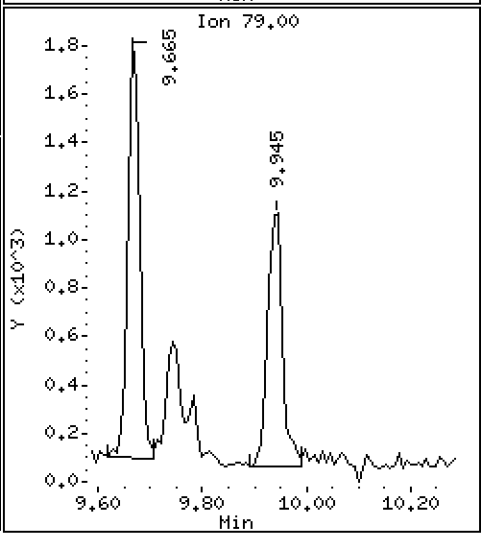


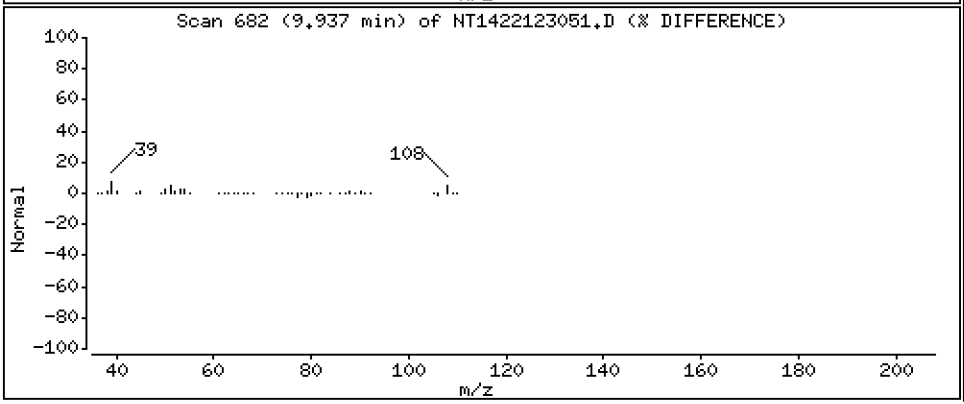












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

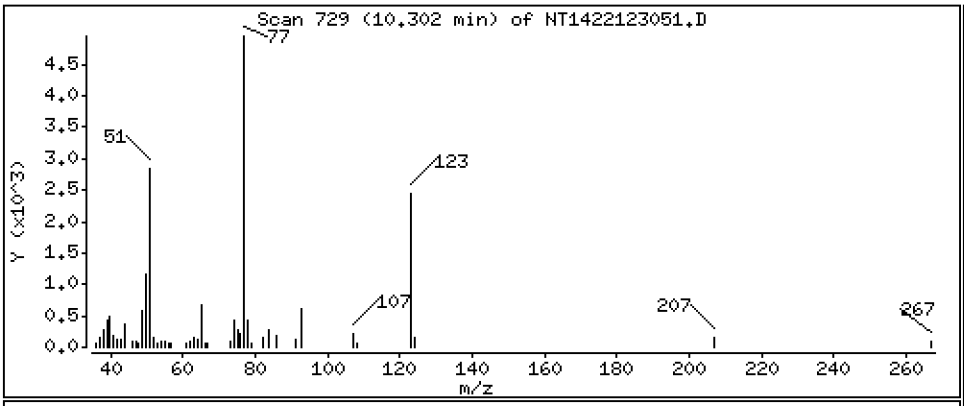
Operator: VTS

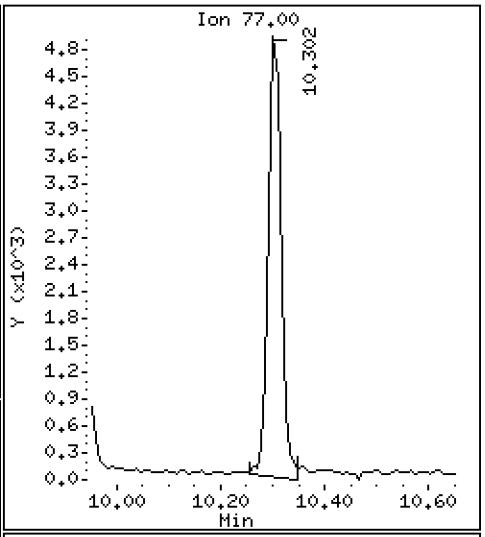
Column phase: ZB-5msi

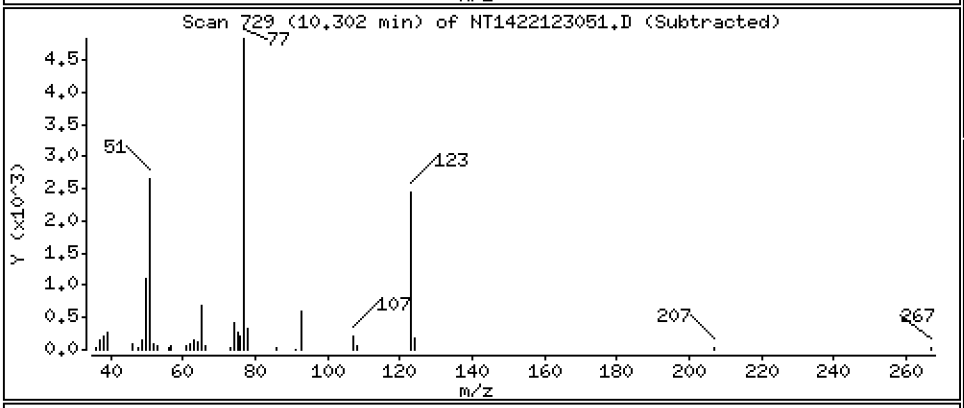
Column diameter: 0.25

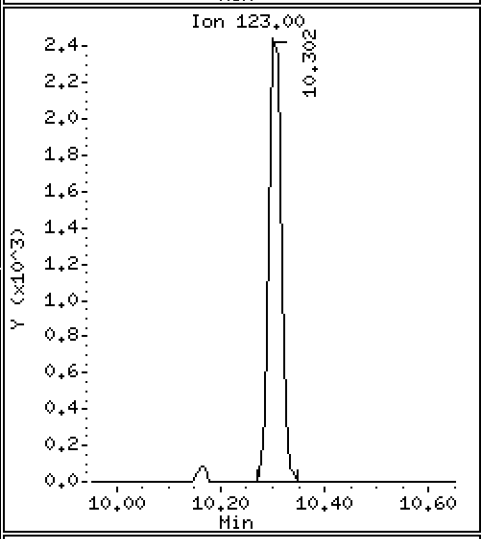
19 Nitrobenzene

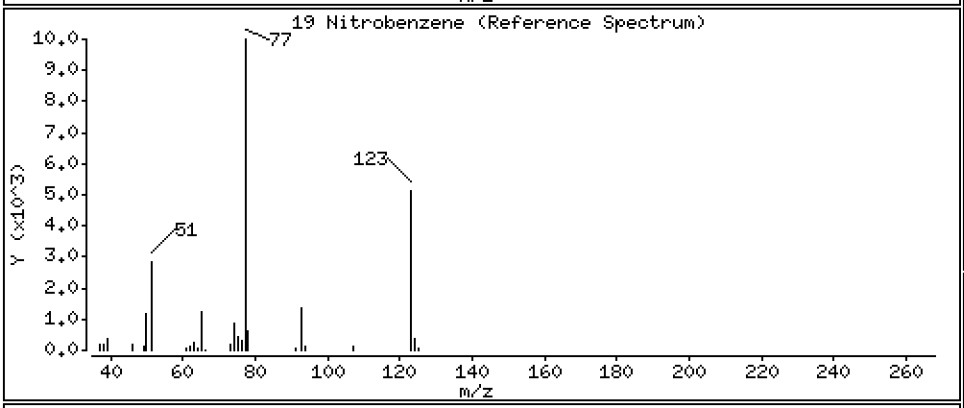
Concentration: 0.2254 ug/mL

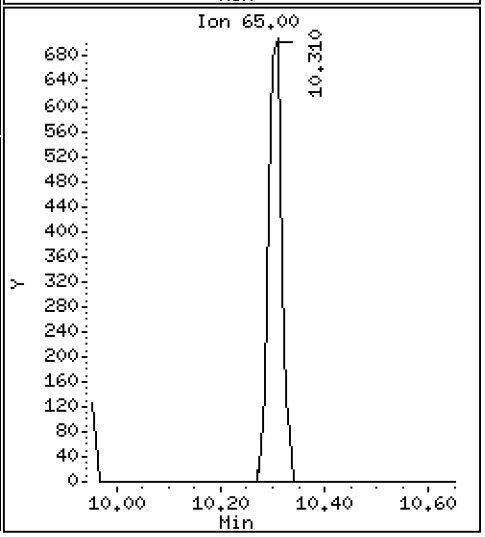


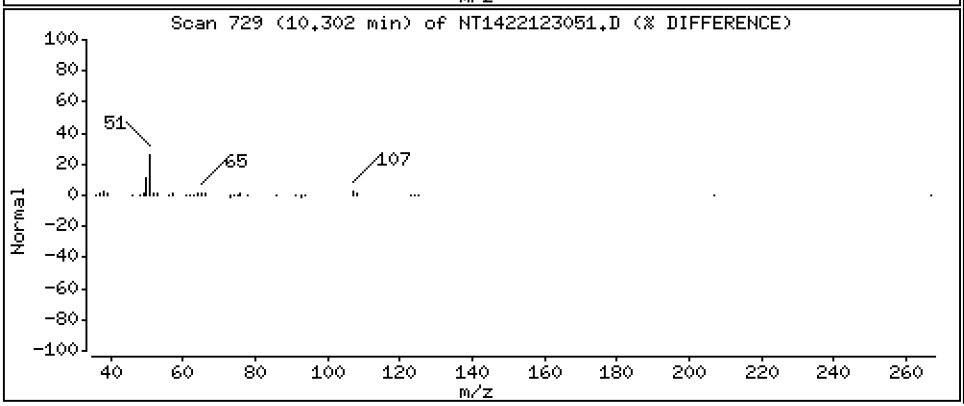












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

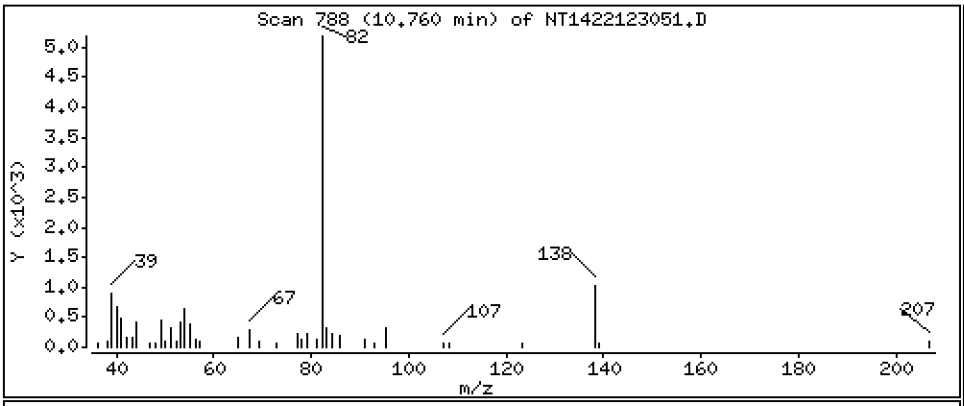
Operator: VTS

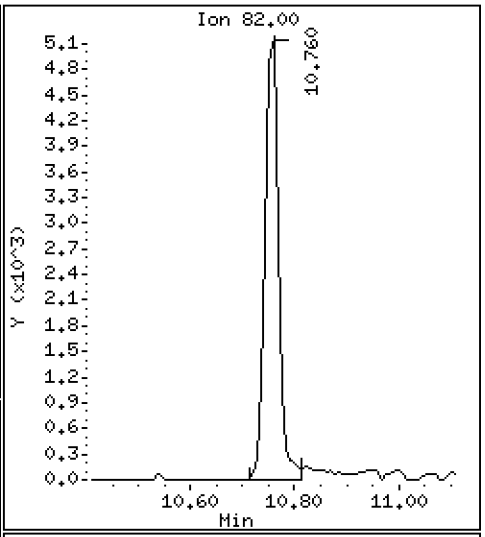
Column phase: ZB-5msi

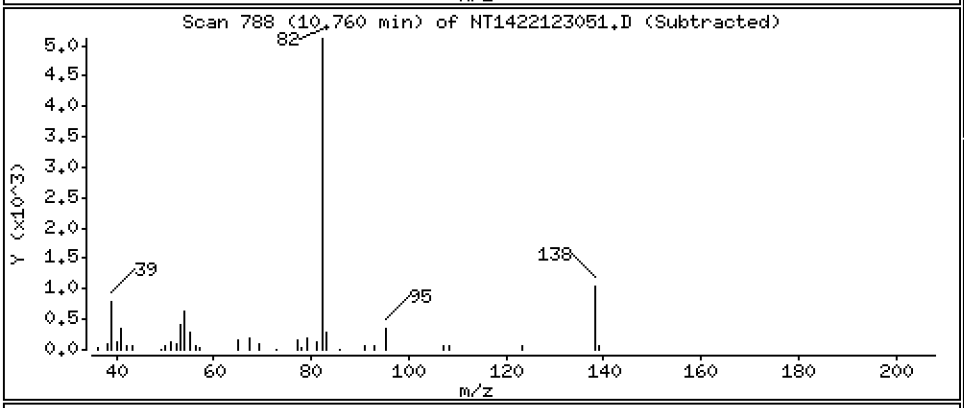
Column diameter: 0.25

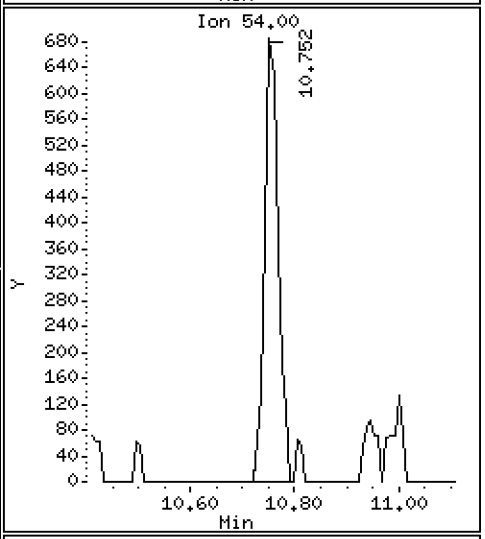
20 Isophorone

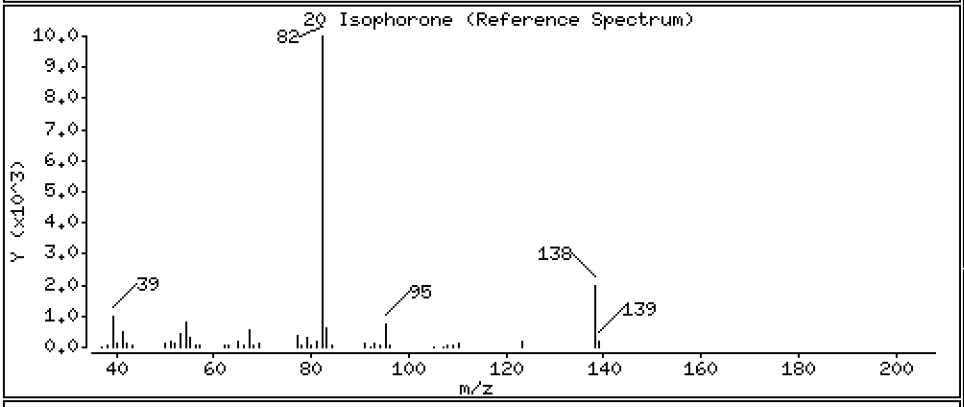
Concentration: 0.1965 ug/mL

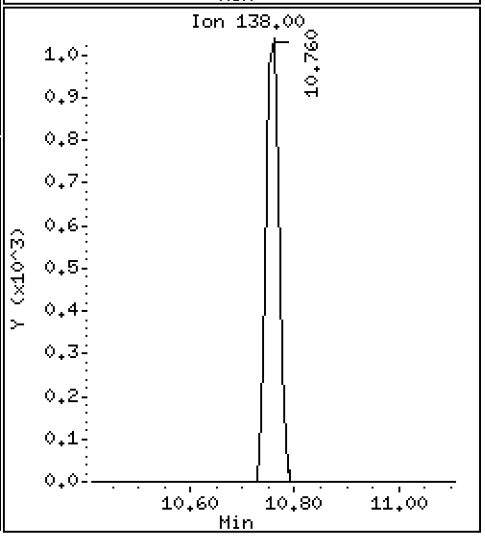


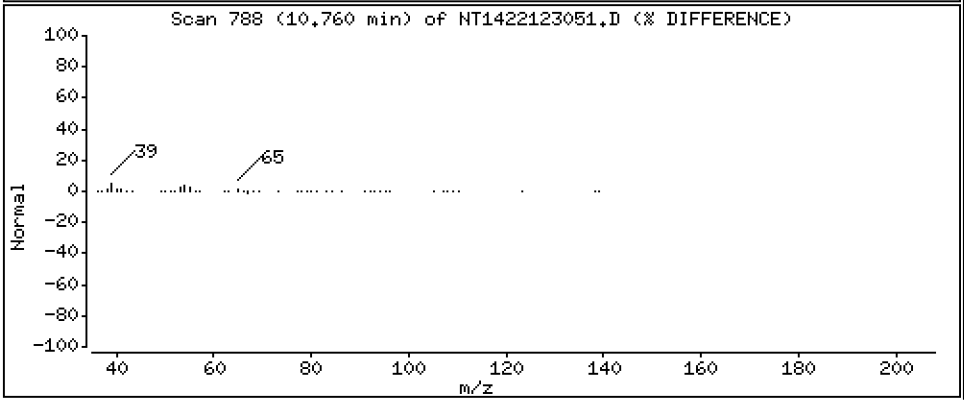












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

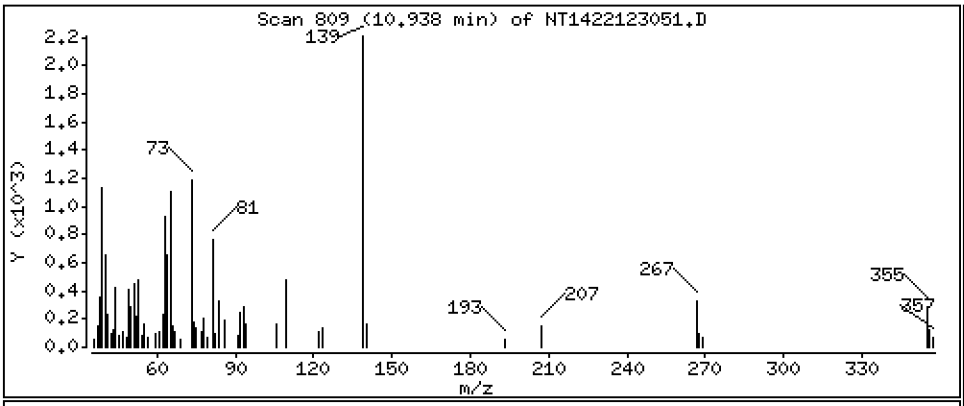
Operator: VTS

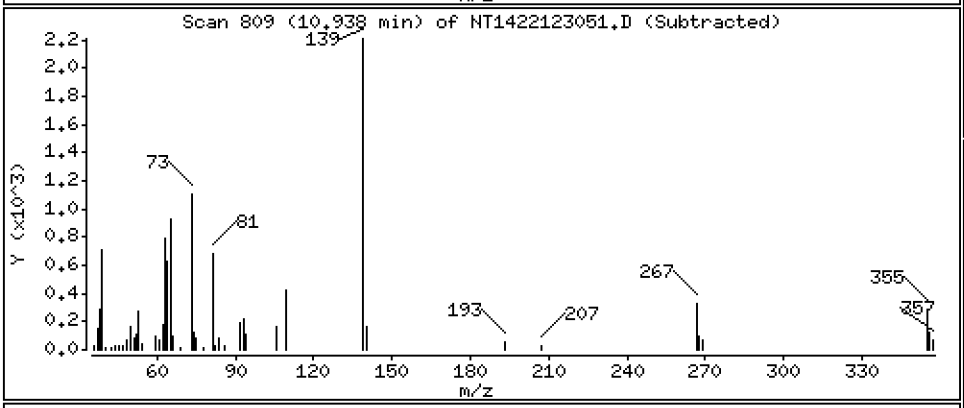
Column phase: ZB-5msi

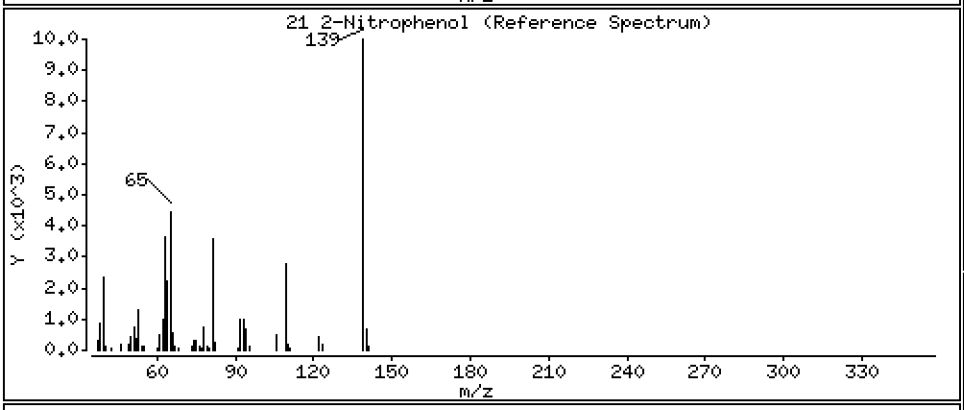
Column diameter: 0.25

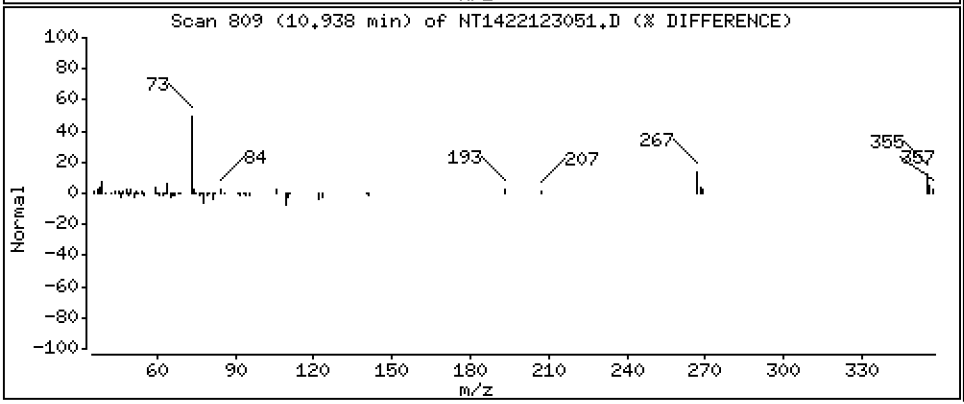
21 2-Nitrophenol

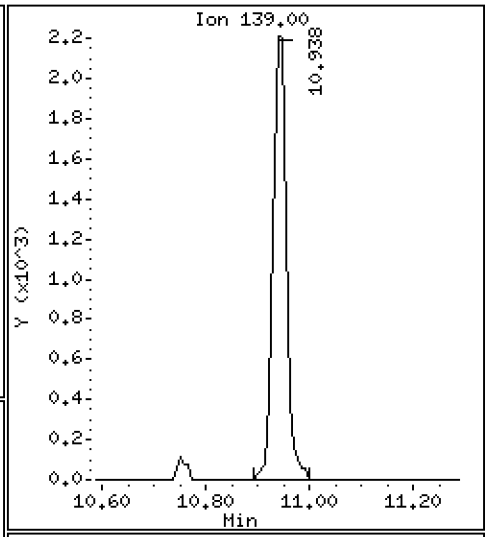
Concentration: 0.2028 ug/mL

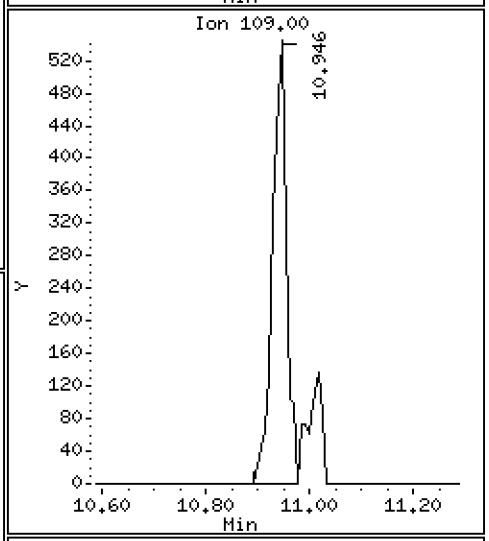


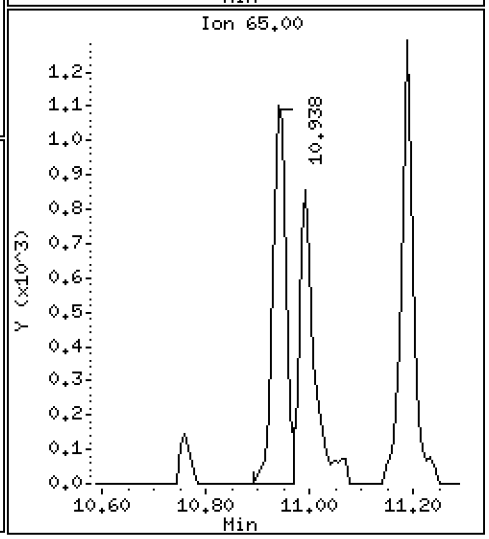












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

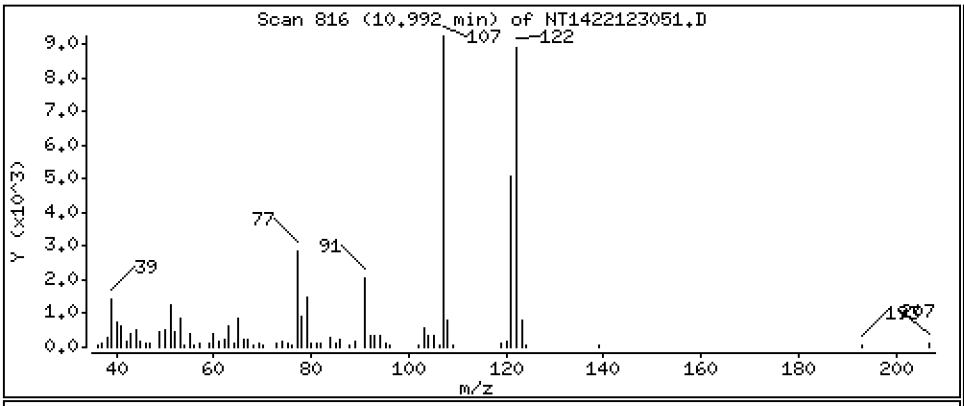
Operator: VTS

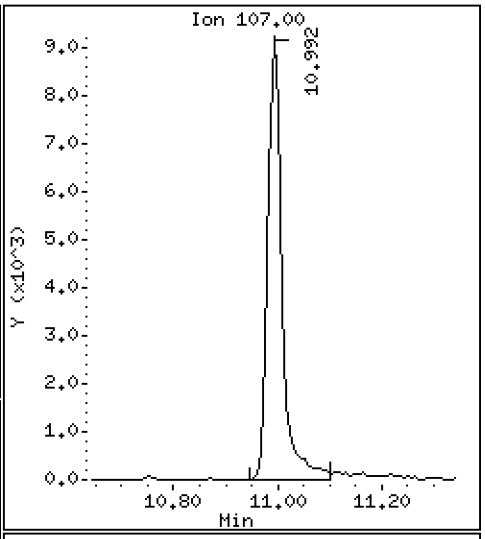
Column phase: ZB-5msi

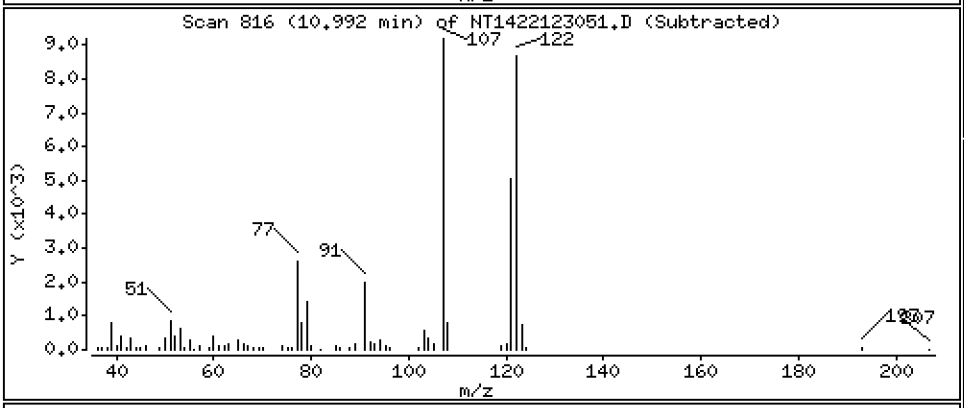
Column diameter: 0.25

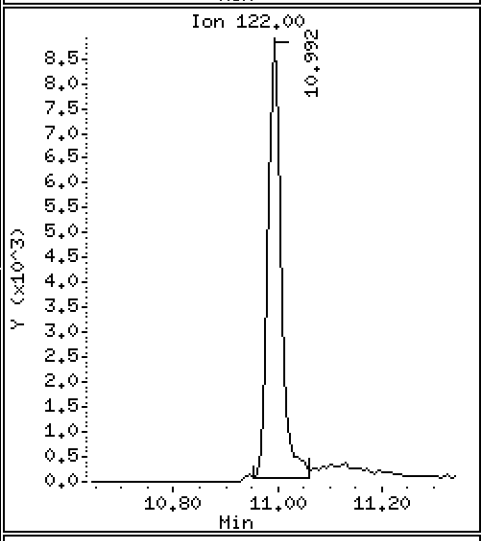
22 2,4-Dimethylphenol

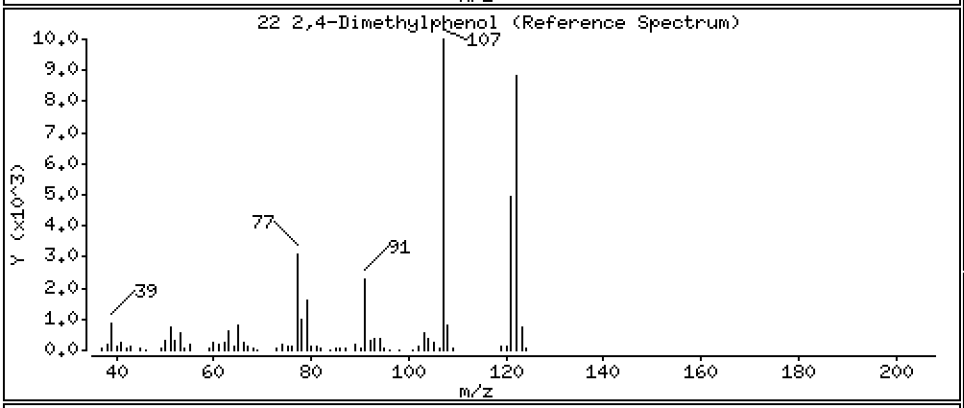
Concentration: 0.4556 ug/mL

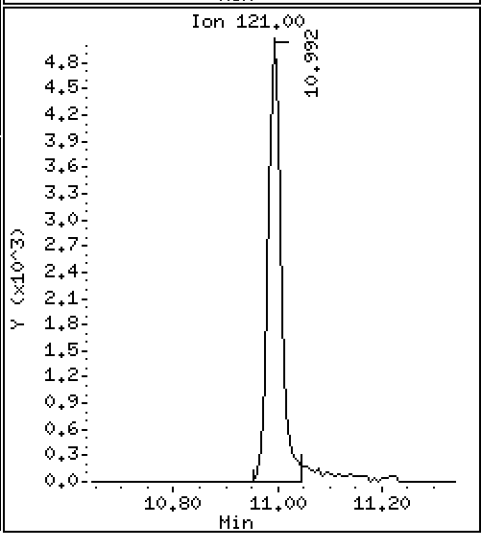


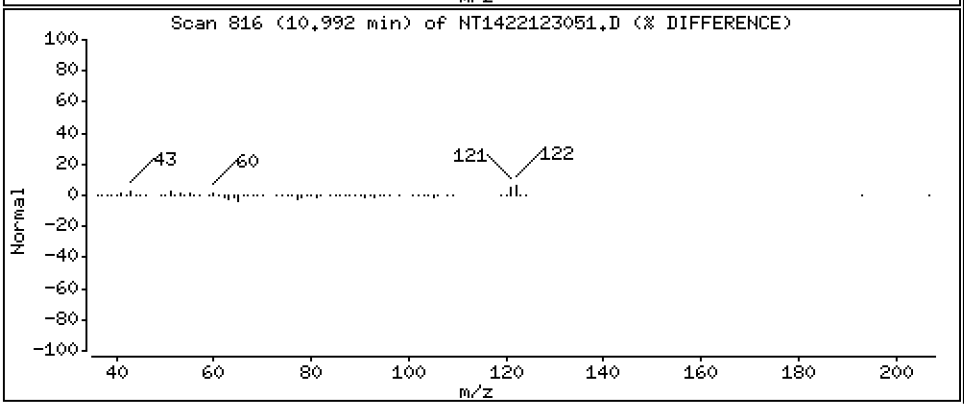












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

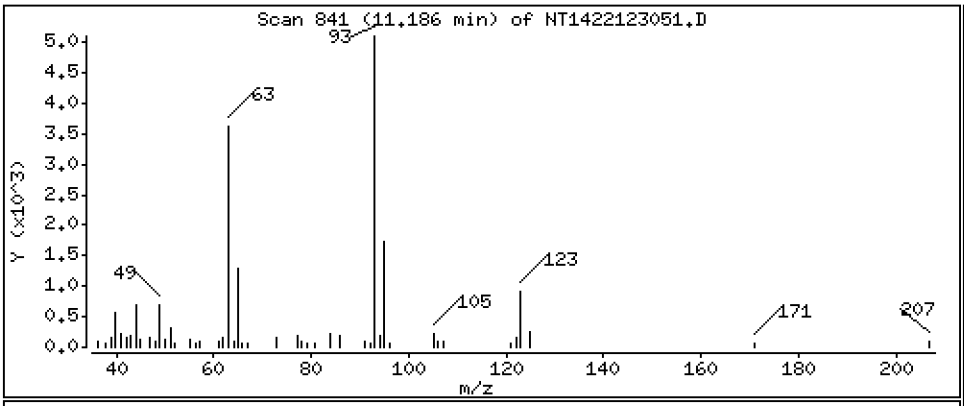
Operator: VTS

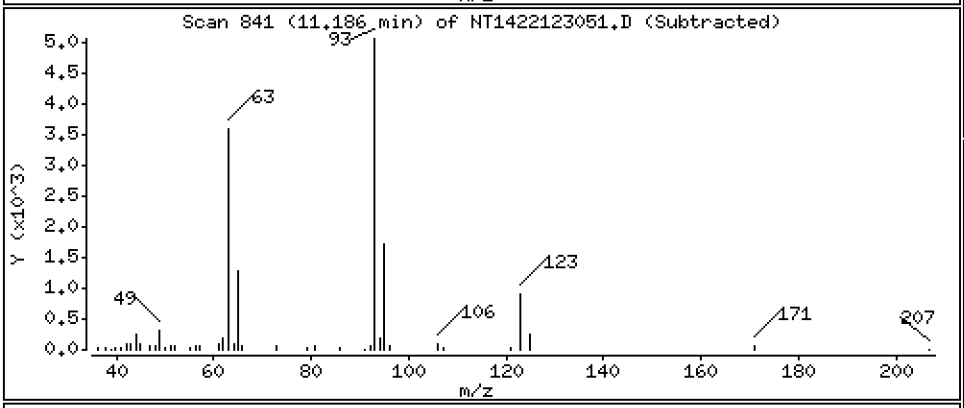
Column phase: ZB-5msi

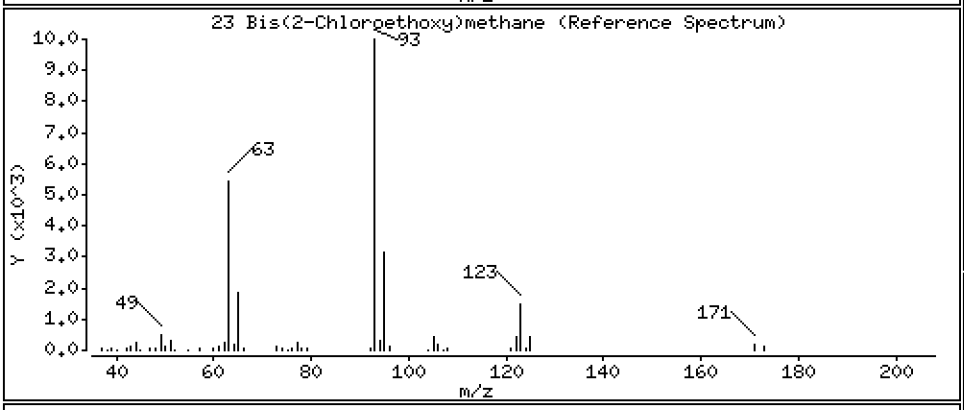
Column diameter: 0.25

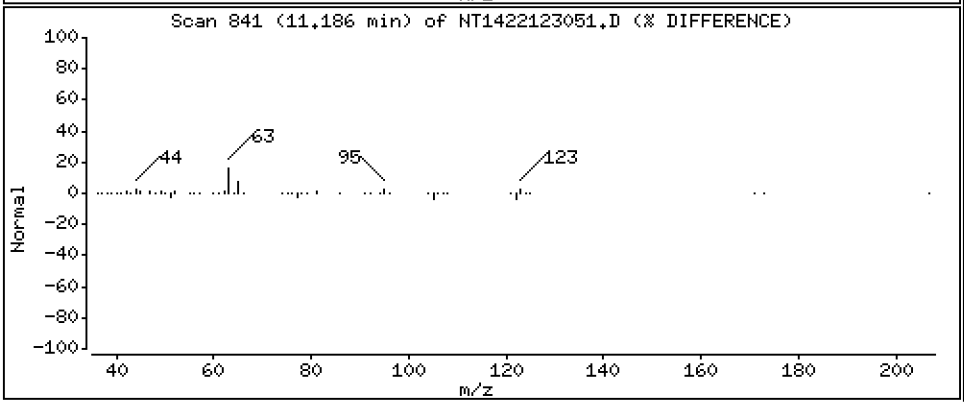
23 Bis(2-Chloroethoxy)methane

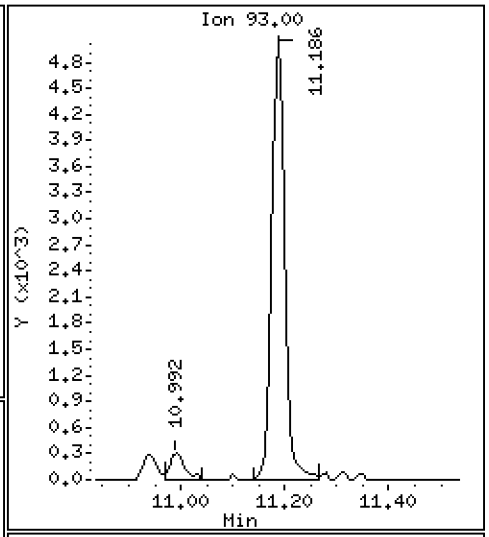
Concentration: 0.2358 ug/mL

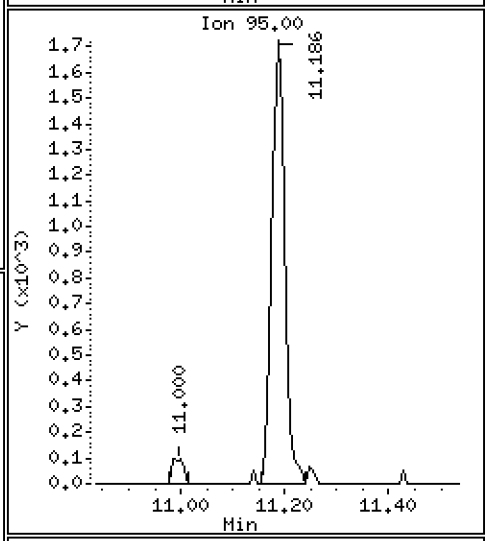


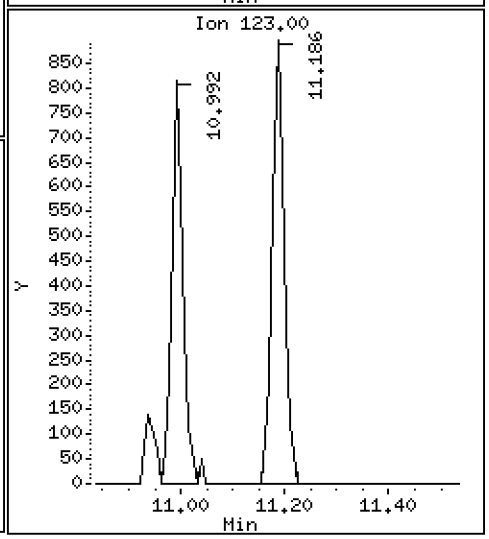












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

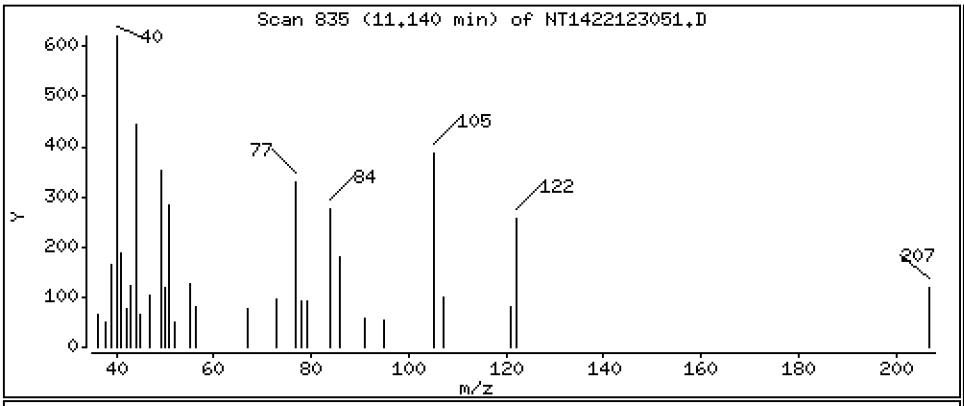
Operator: VTS

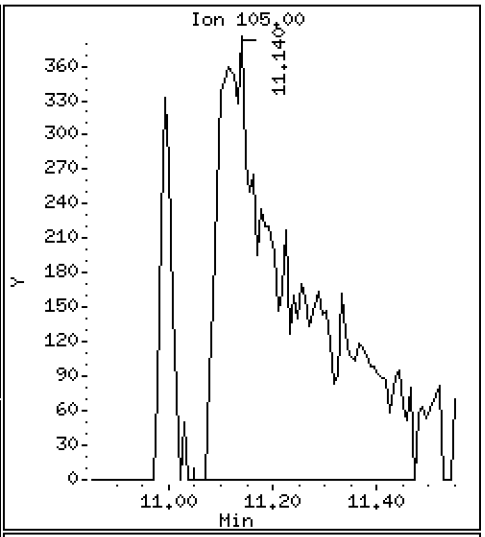
Column phase: ZB-5msi

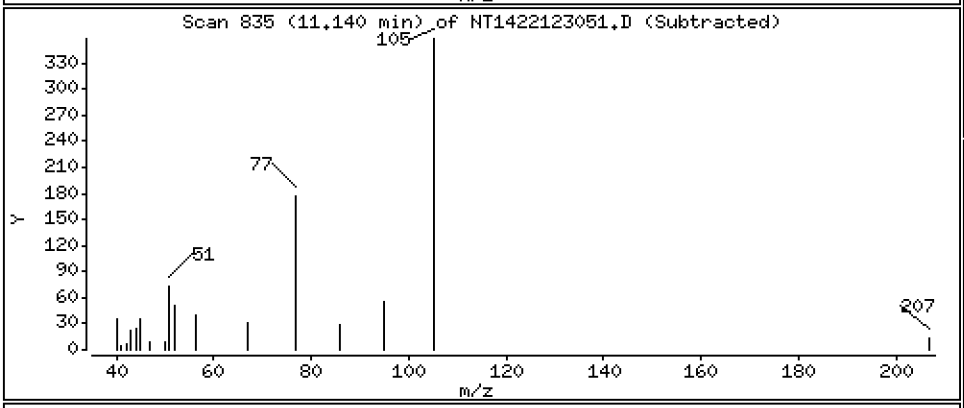
Column diameter: 0.25

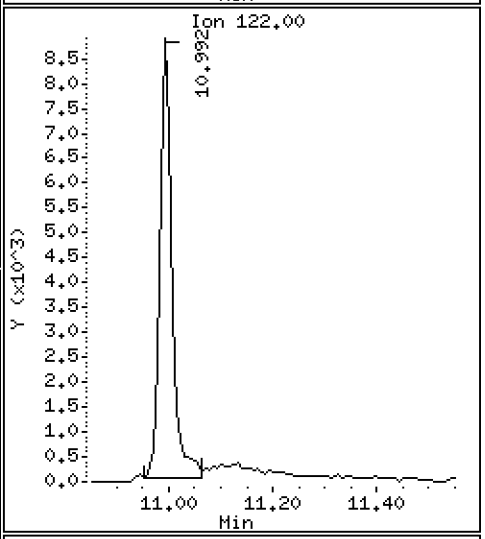
24 Benzoic acid

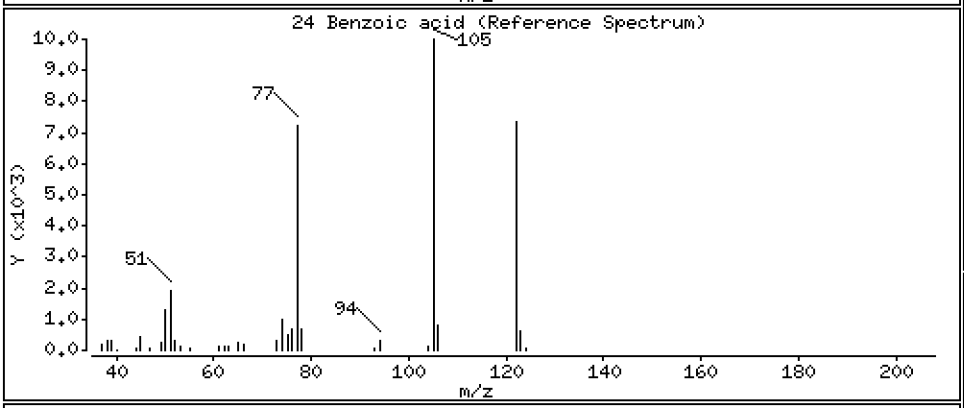
Concentration: 0.1748 ug/mL

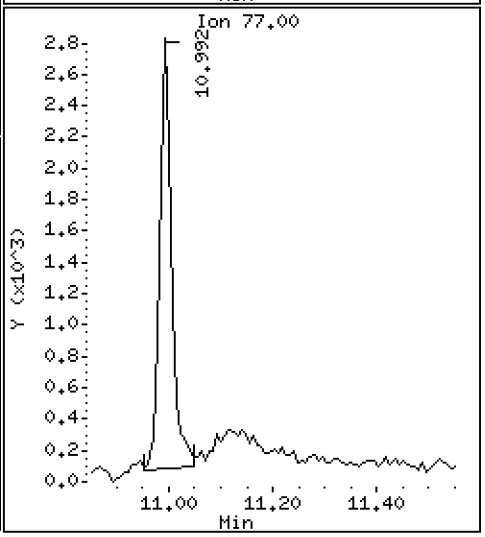


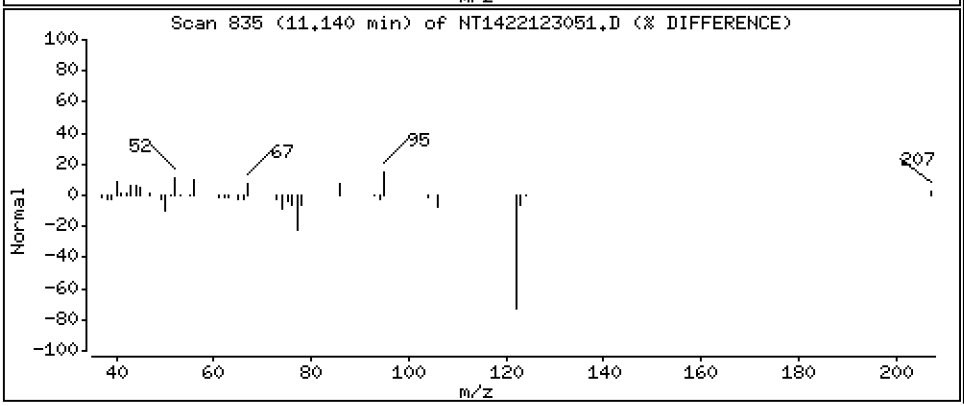












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

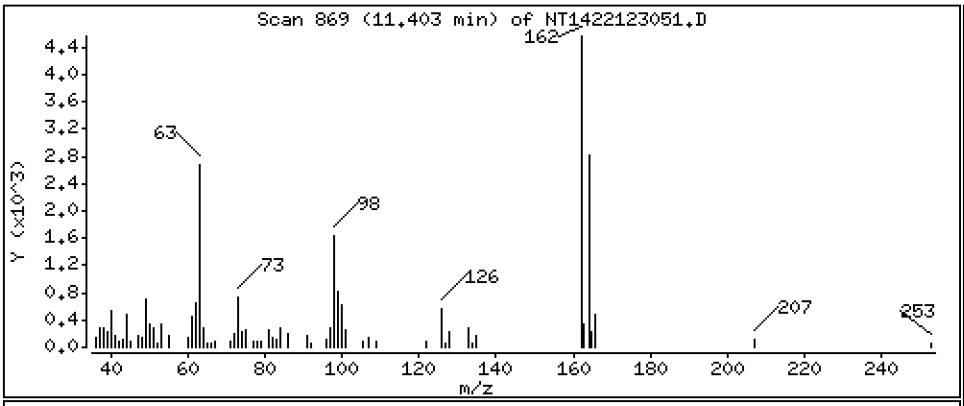
Operator: VTS

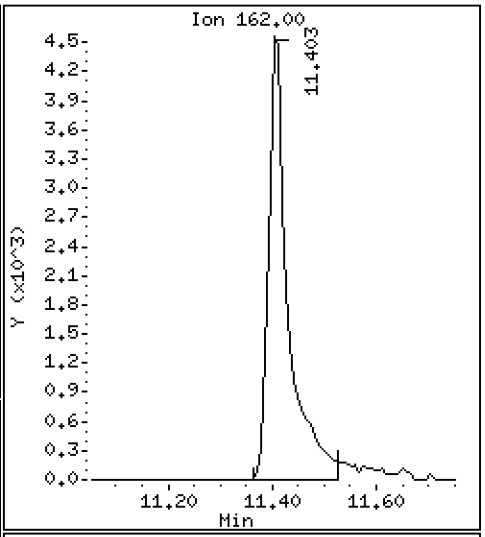
Column phase: ZB-5msi

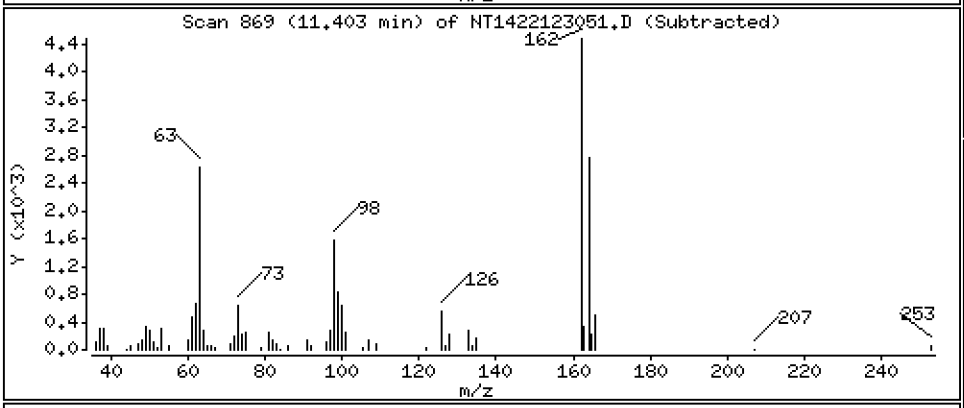
Column diameter: 0.25

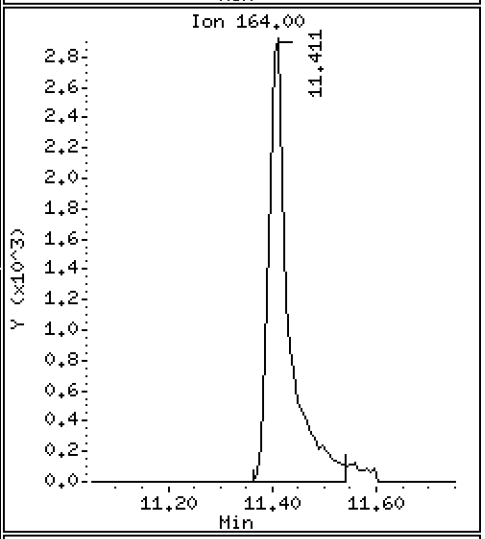
25 2,4-Dichlorophenol

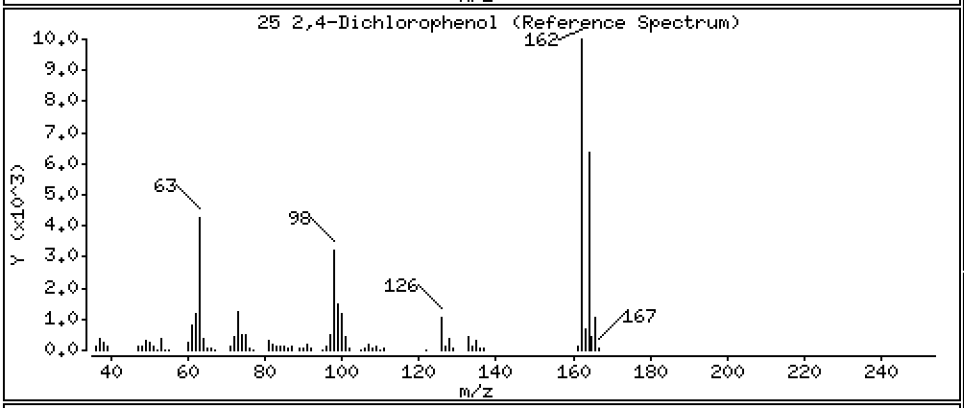
Concentration: 0.4132 ug/mL

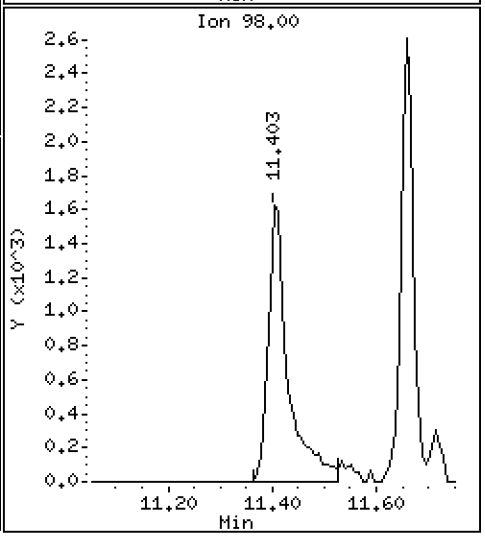


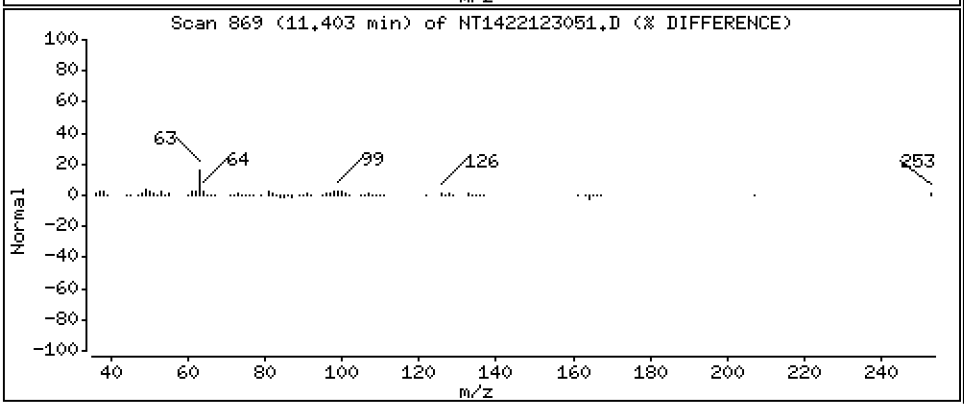












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

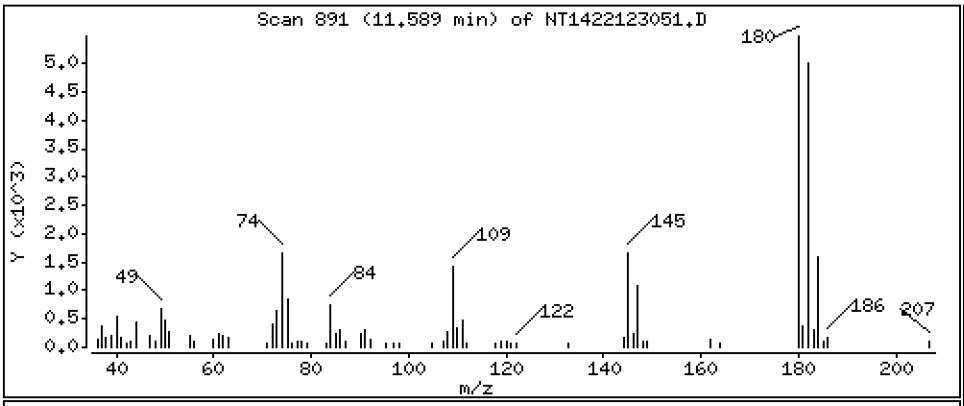
Operator: VTS

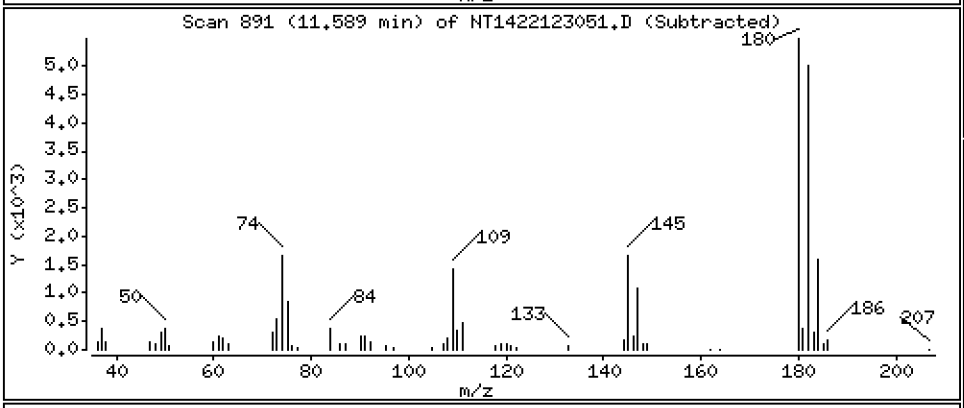
Column phase: ZB-5msi

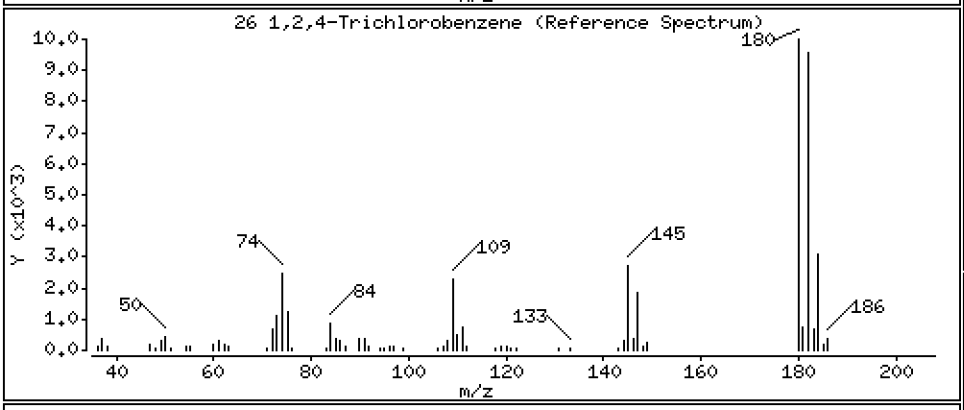
Column diameter: 0.25

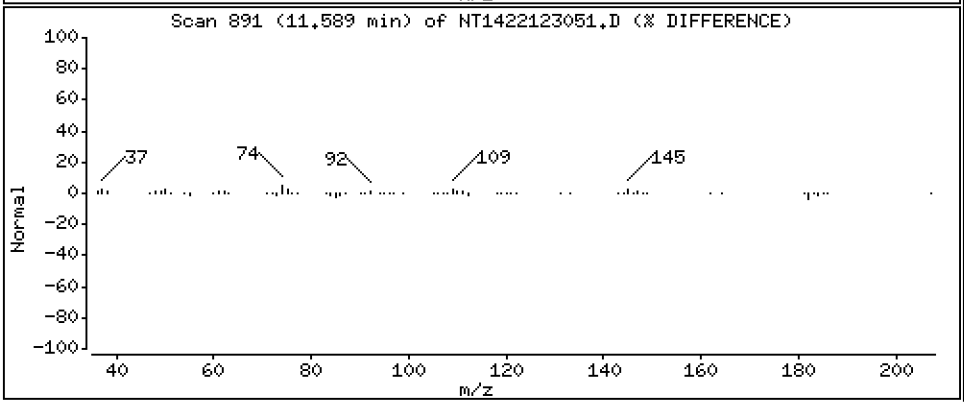
26 1,2,4-Trichlorobenzene

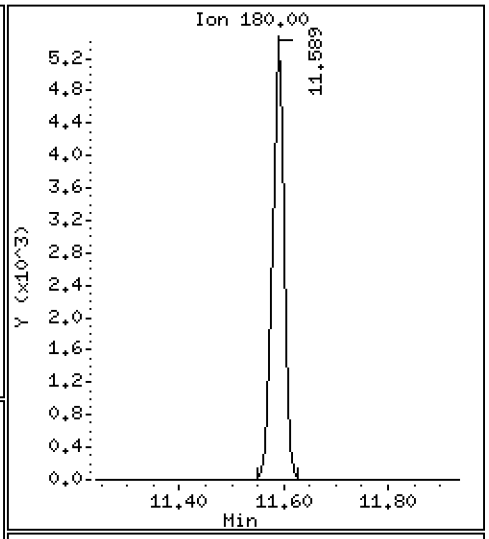
Concentration: 0.2422 ug/mL

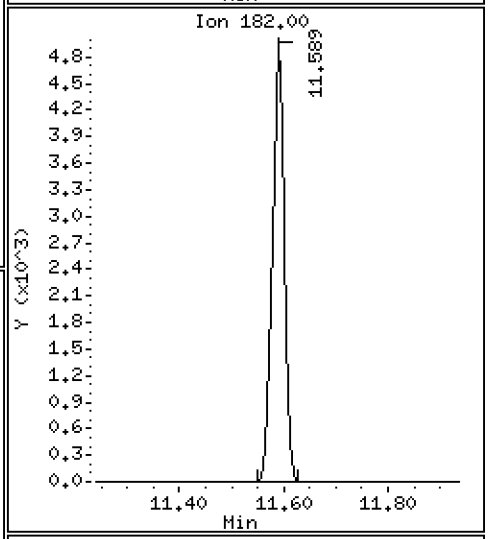


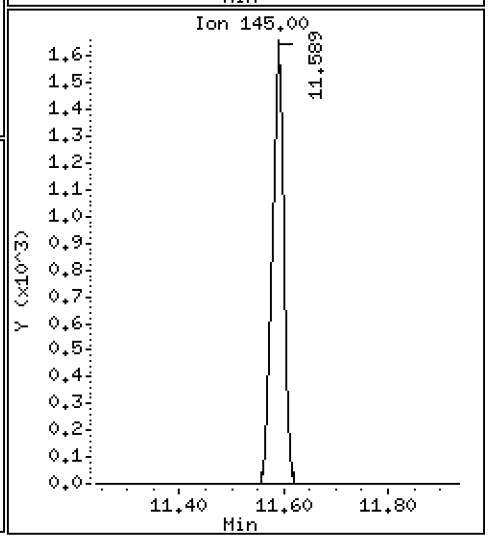












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

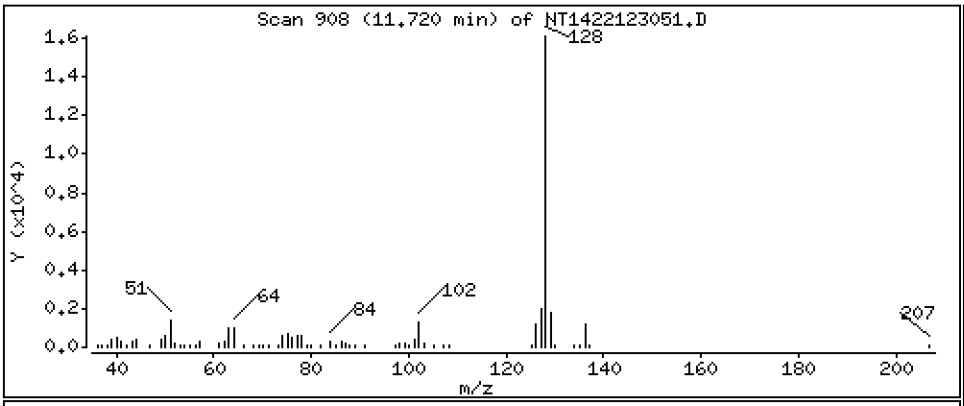
Operator: VTS

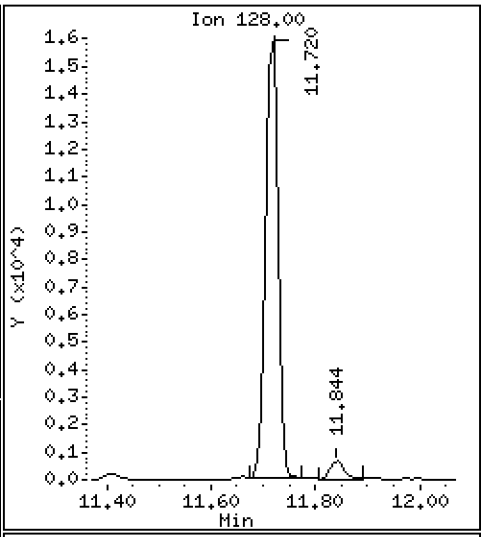
Column phase: ZB-5msi

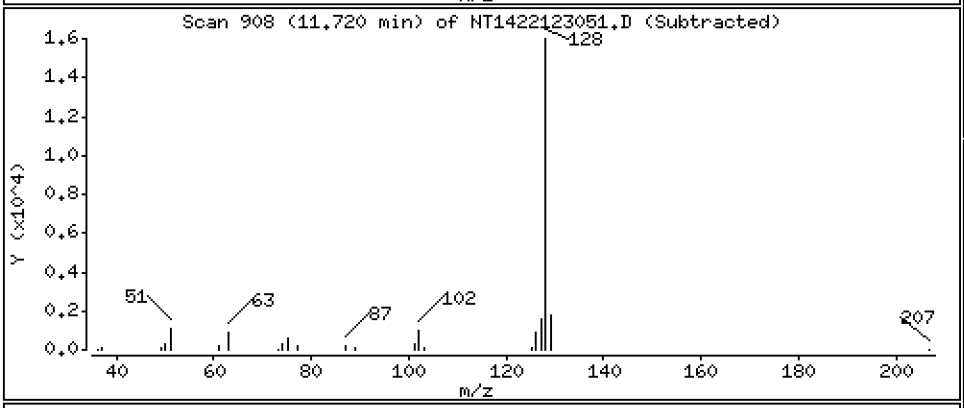
Column diameter: 0.25

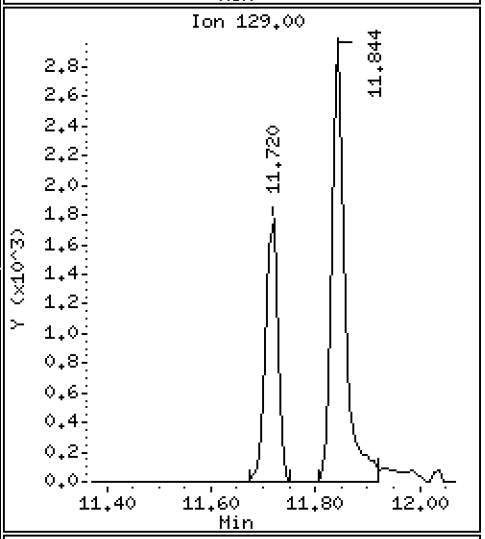
28 Naphthalene

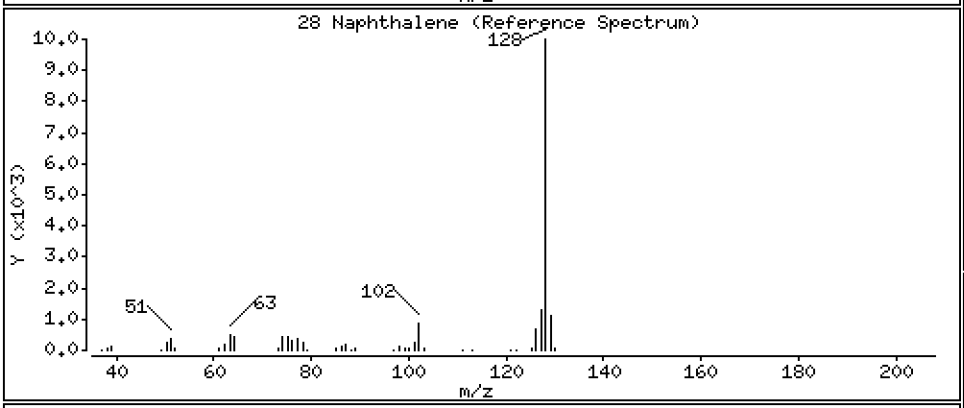
Concentration: 0.2377 ug/mL

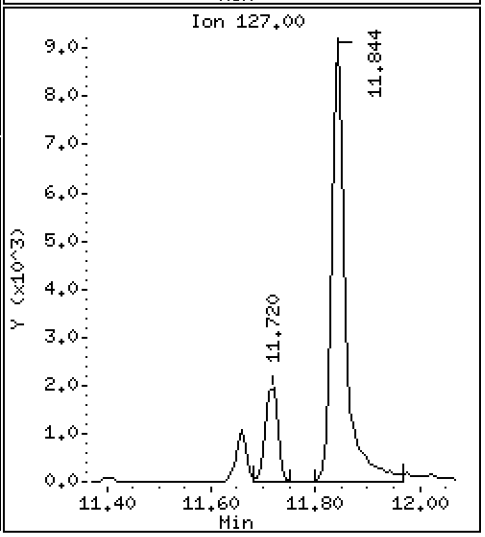


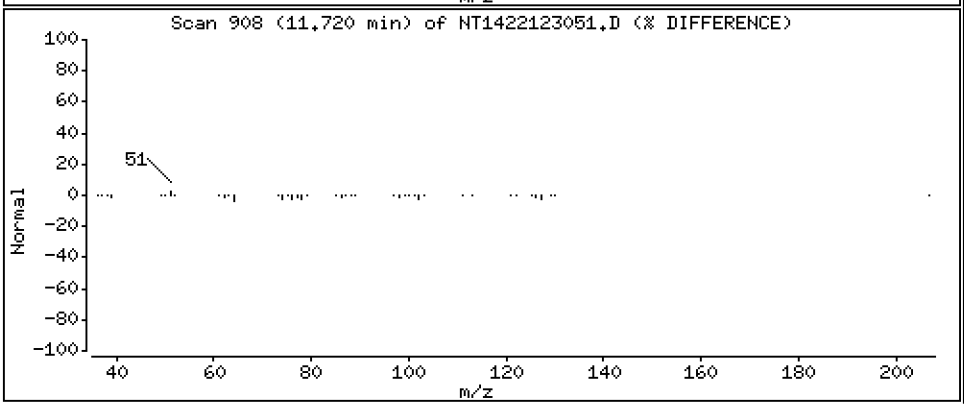












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

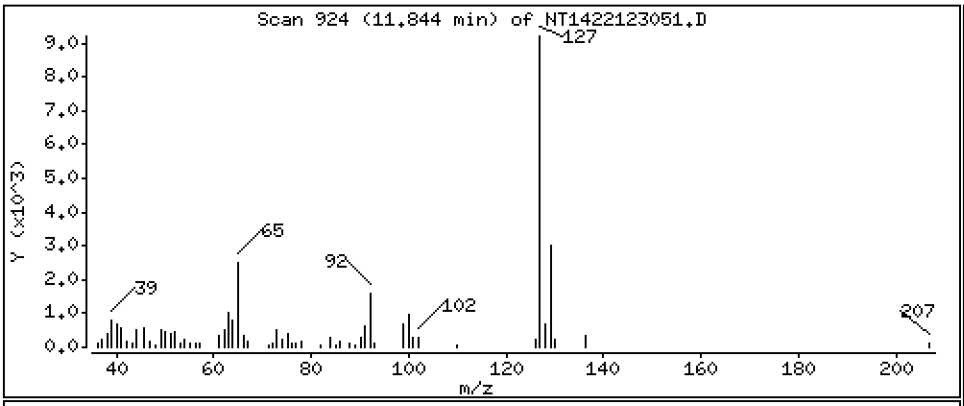
Operator: VTS

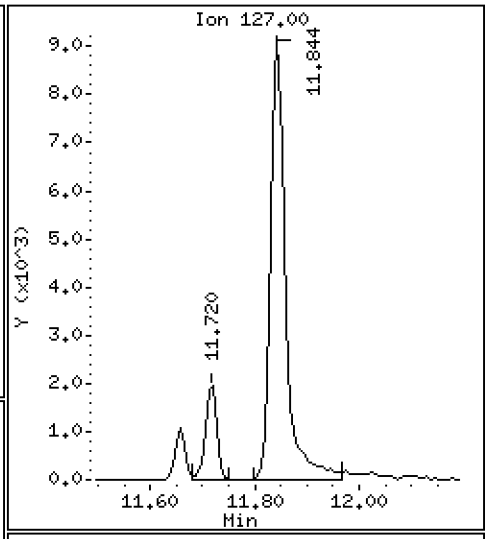
Column phase: ZB-5msi

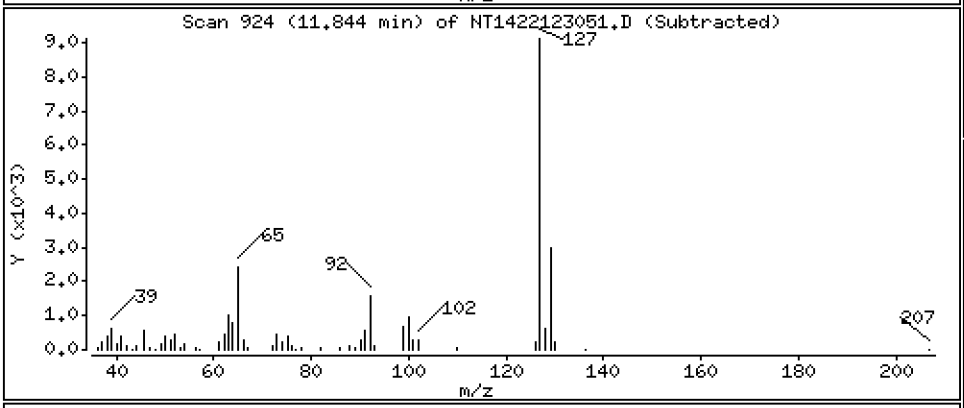
Column diameter: 0.25

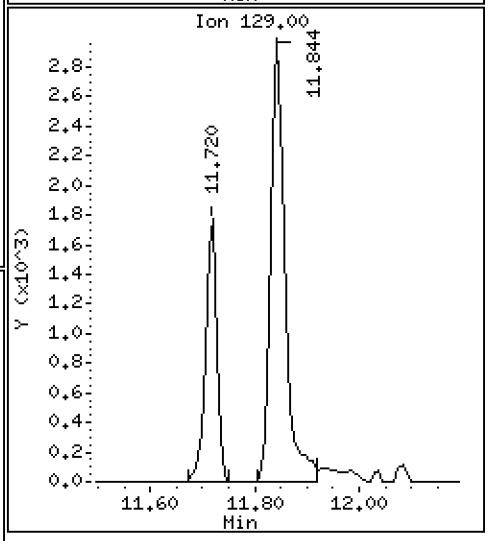
29 4-Chloroaniline

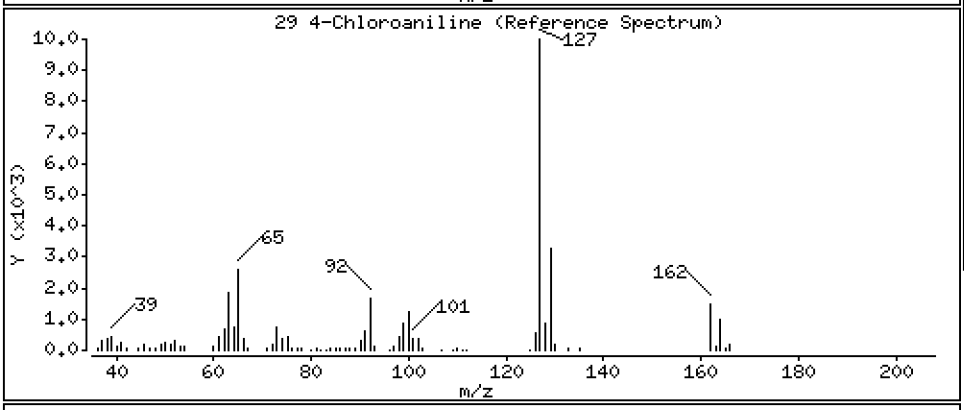
Concentration: 0.4058 ug/mL

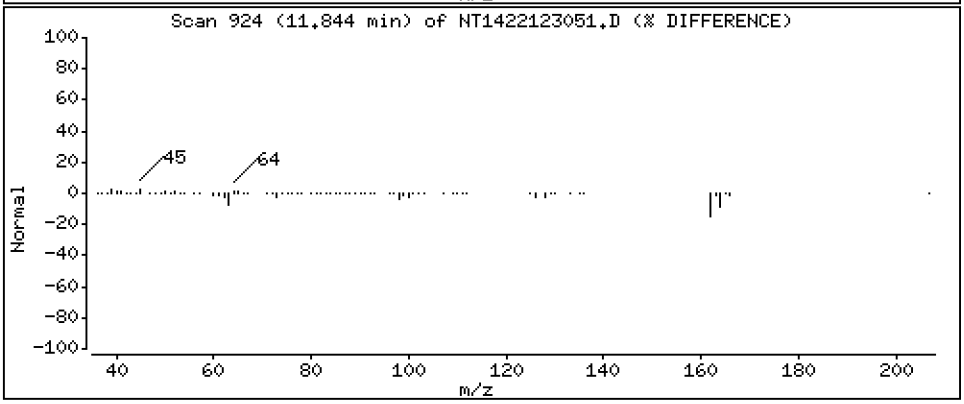












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

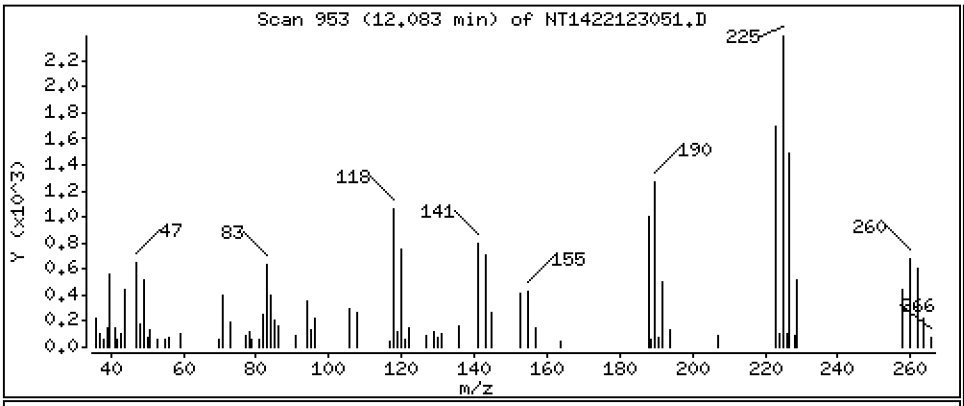
Operator: VTS

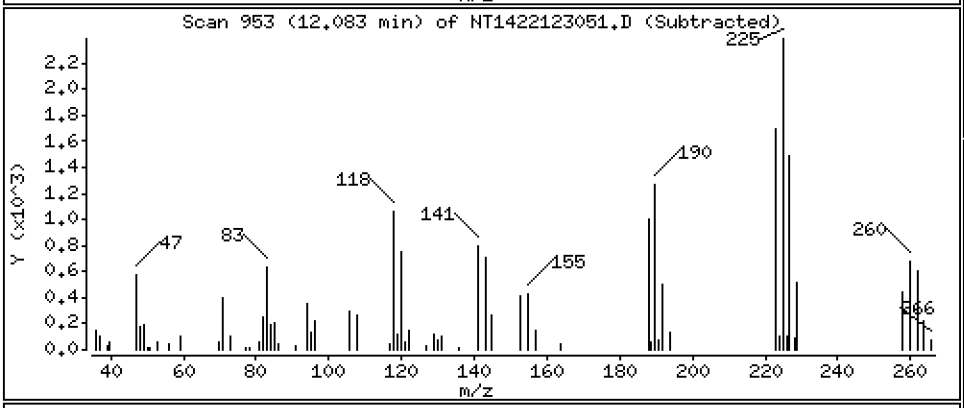
Column phase: ZB-5msi

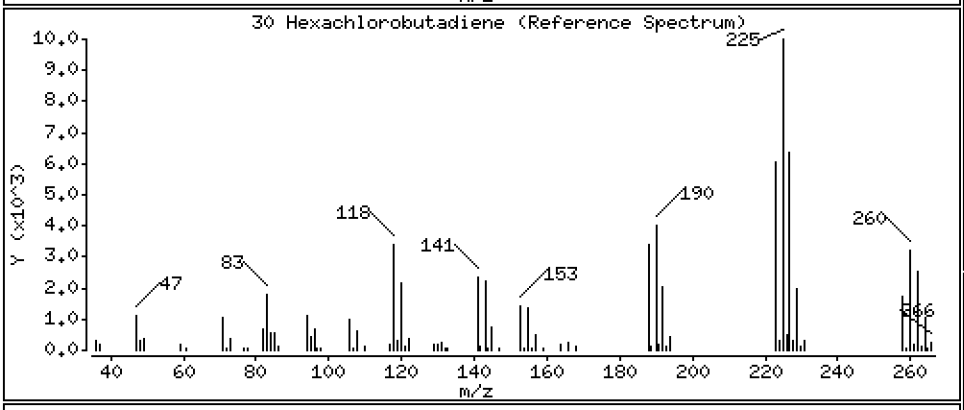
Column diameter: 0.25

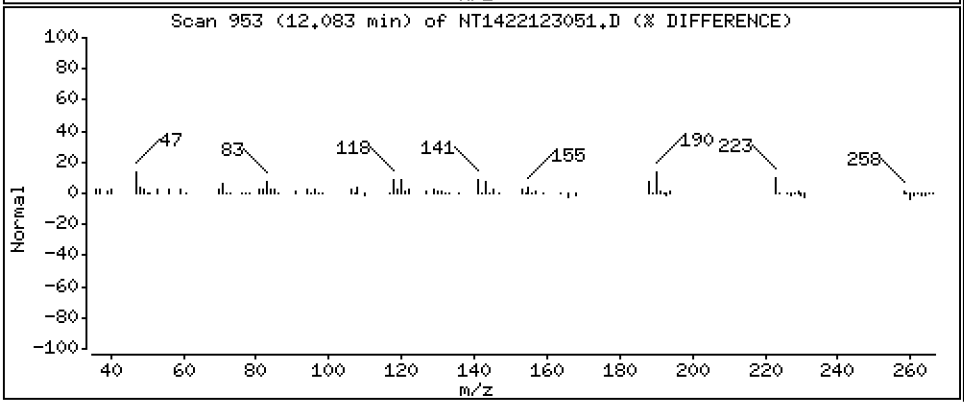
30 Hexachlorobutadiene

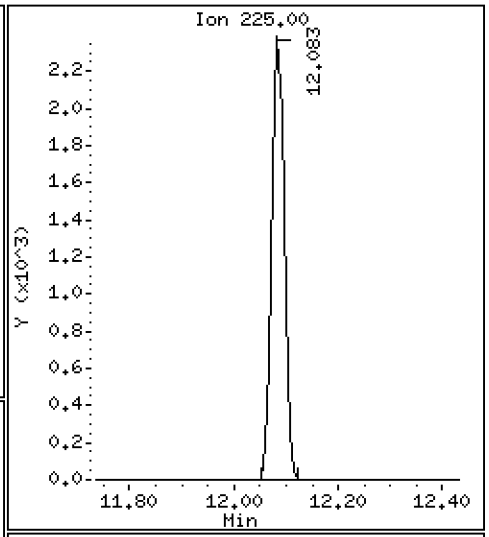
Concentration: 0.2223 ug/mL

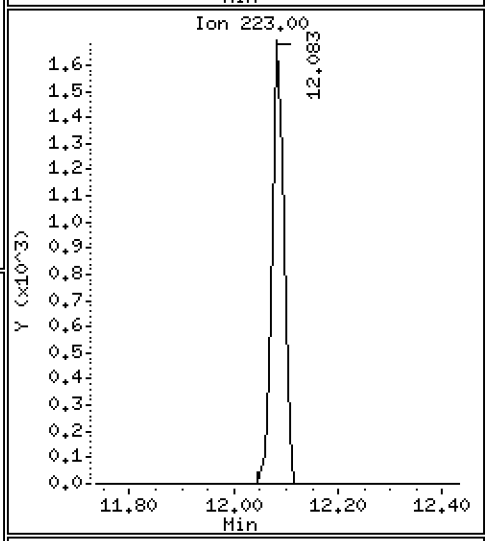


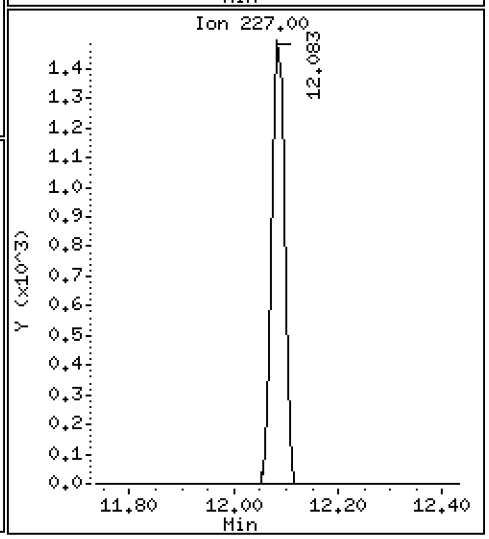












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

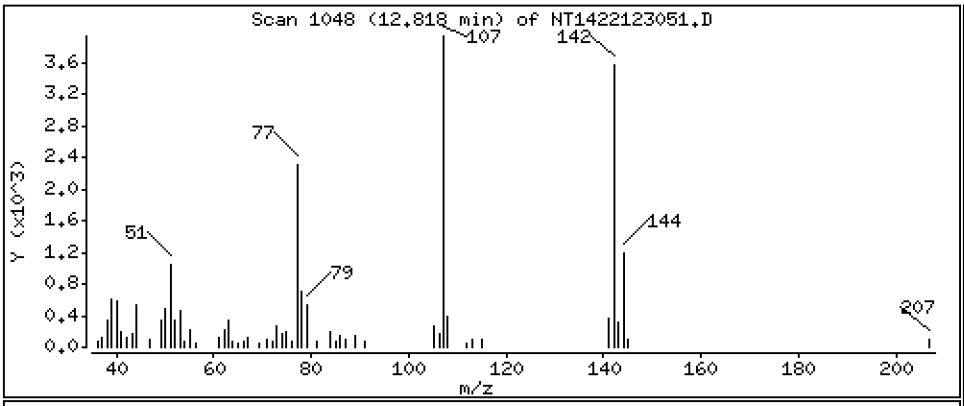
Operator: VTS

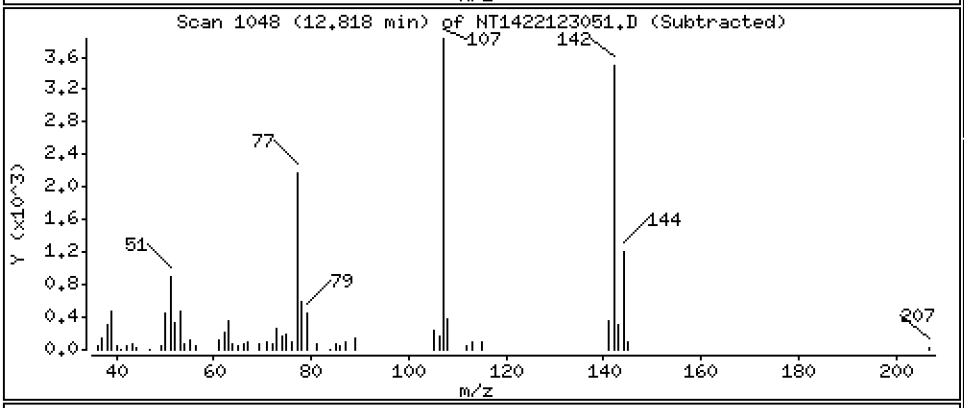
Column phase: ZB-5msi

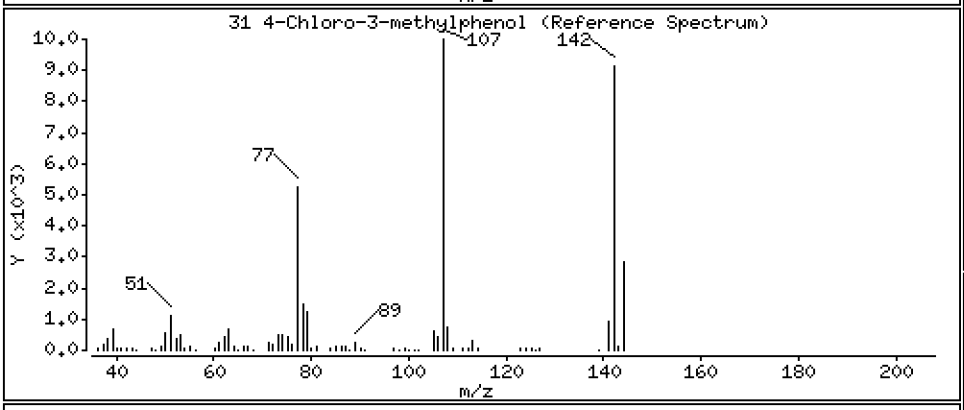
Column diameter: 0.25

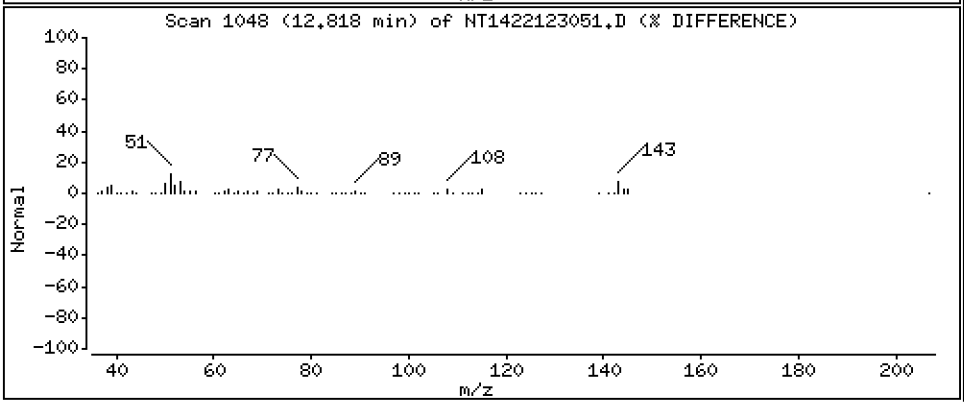
31 4-Chloro-3-methylphenol

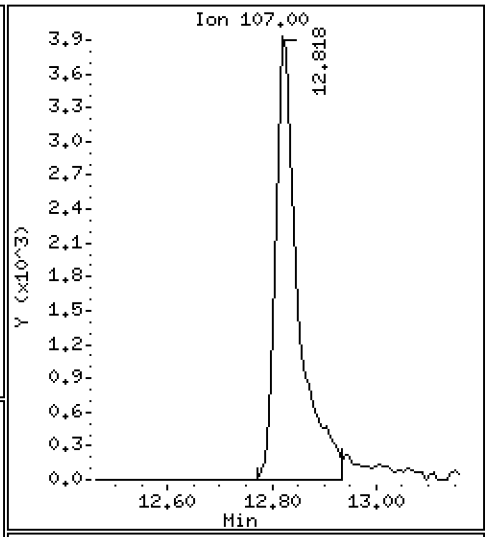
Concentration: 0.4010 ug/mL

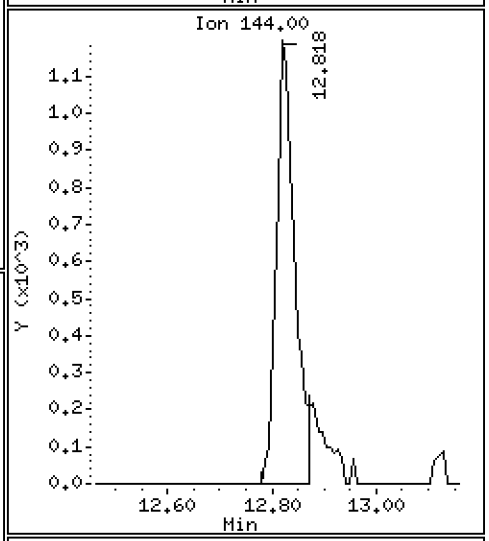


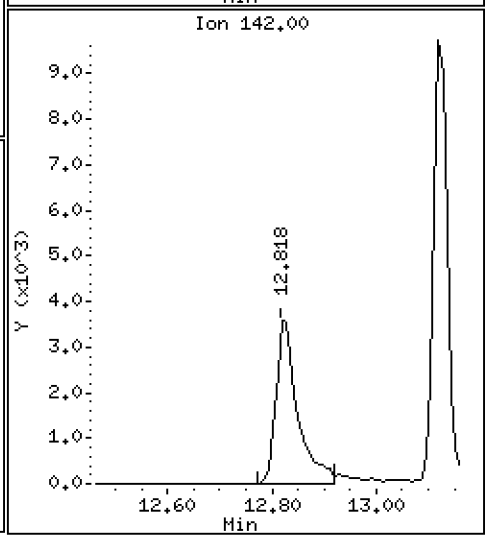












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

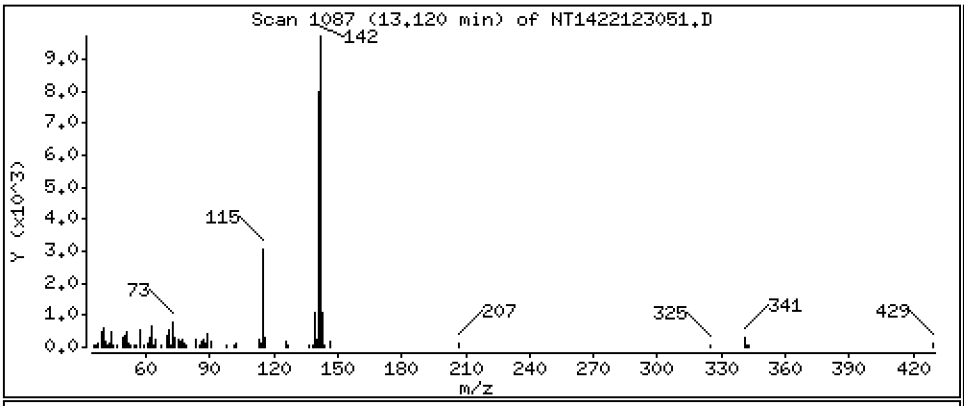
Operator: VTS

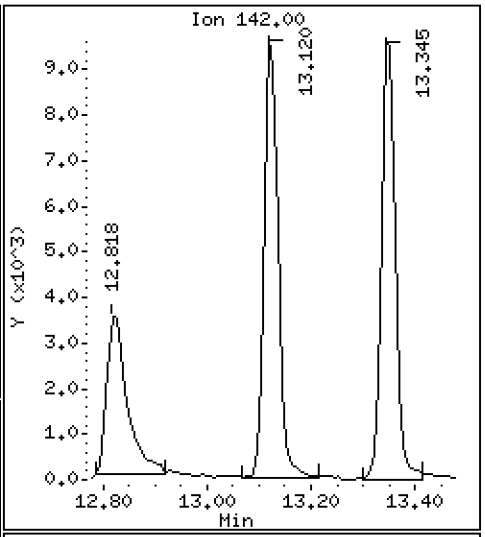
Column phase: ZB-5msi

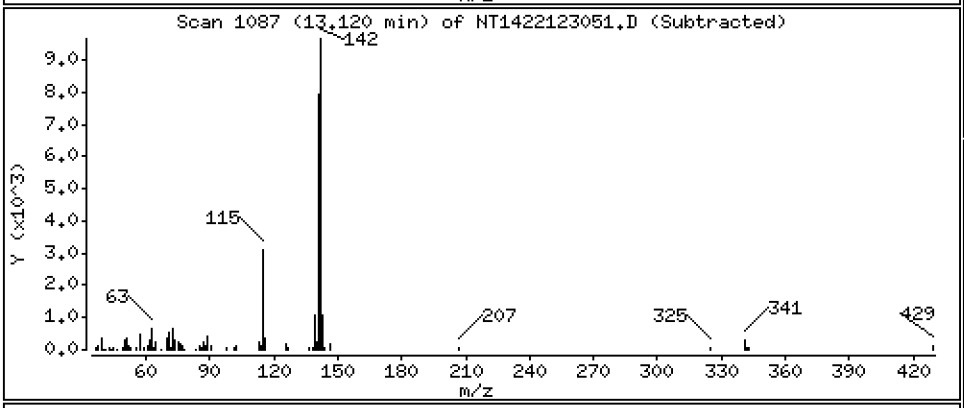
Column diameter: 0.25

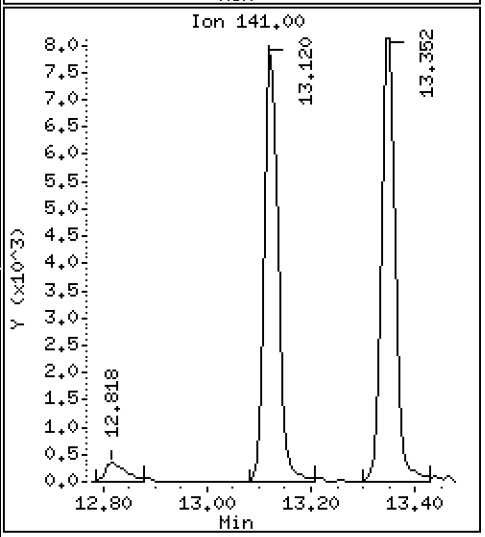
32 2-Methylnaphthalene

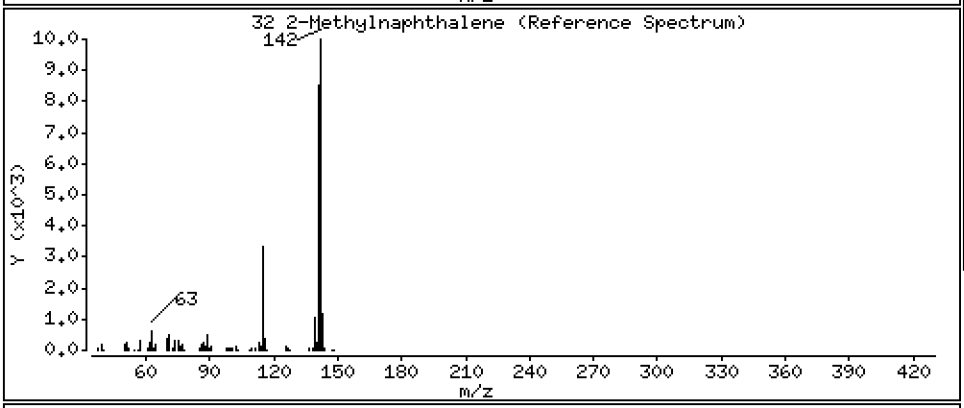
Concentration: 0.2231 ug/mL

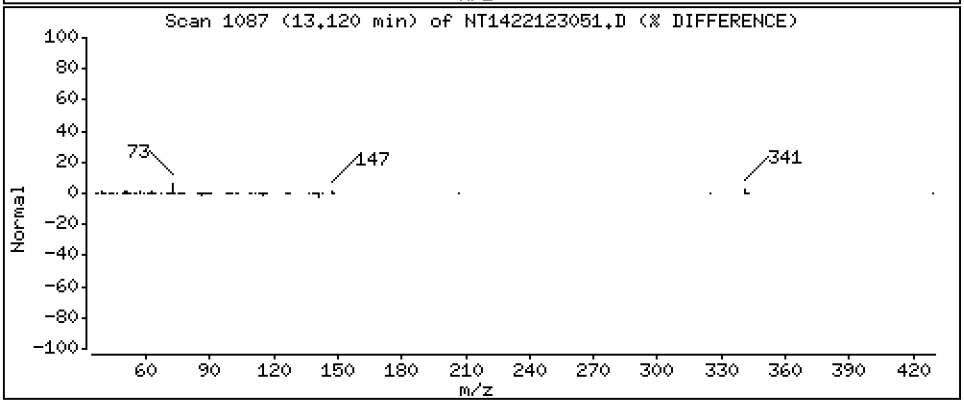












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

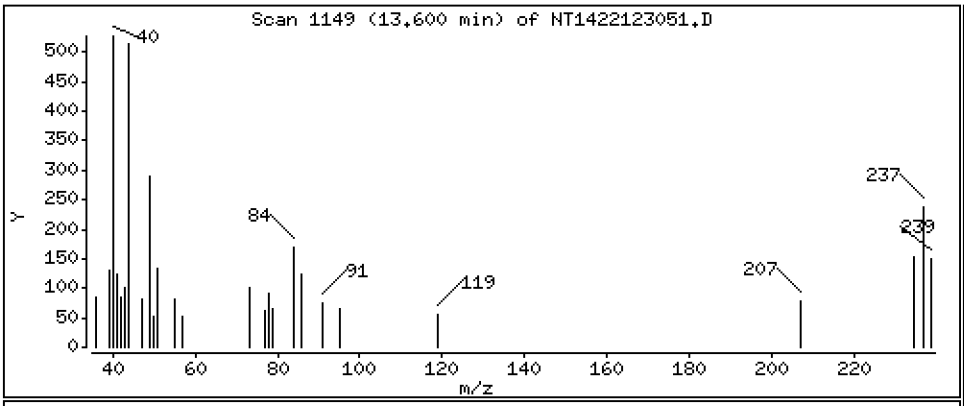
Operator: VTS

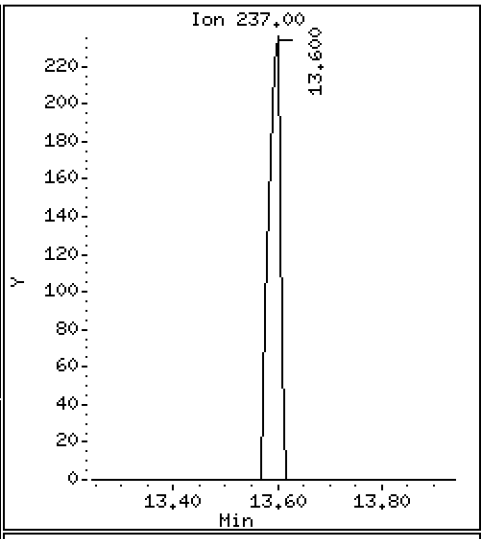
Column phase: ZB-5msi

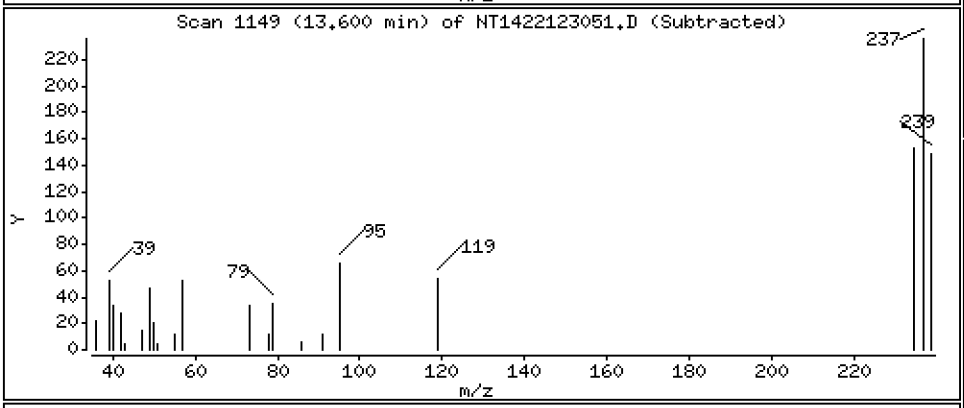
Column diameter: 0.25

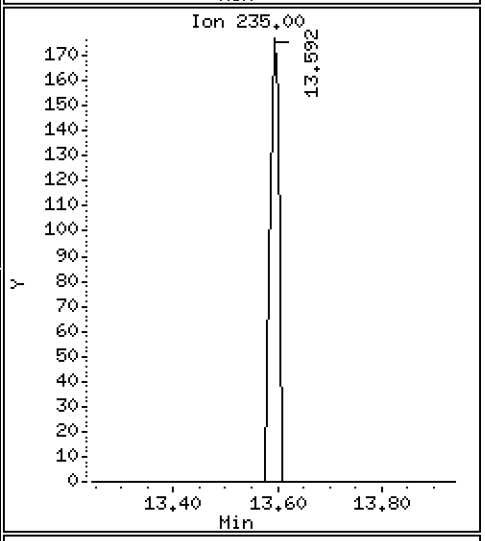
33 Hexachlorocyclopentadiene

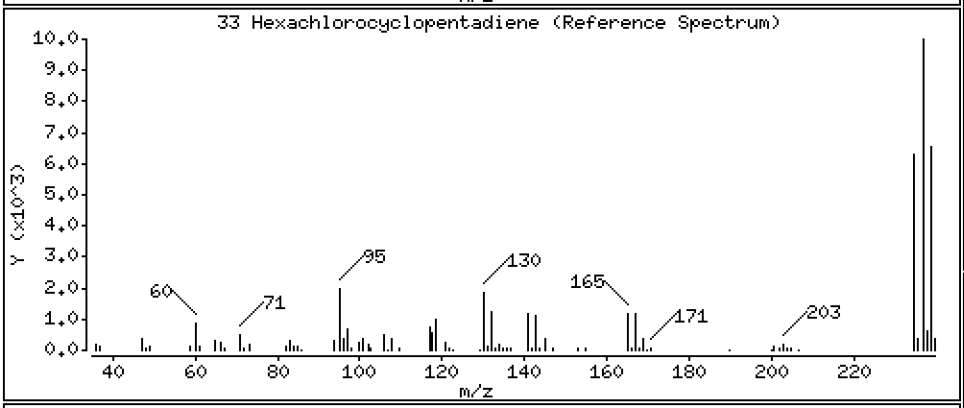
Concentration: 0.02150 ug/mL

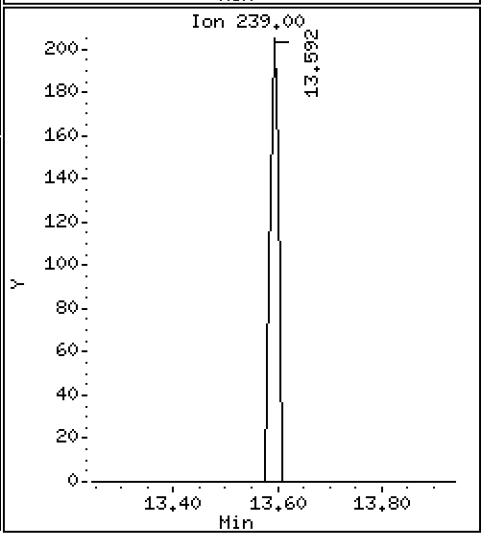


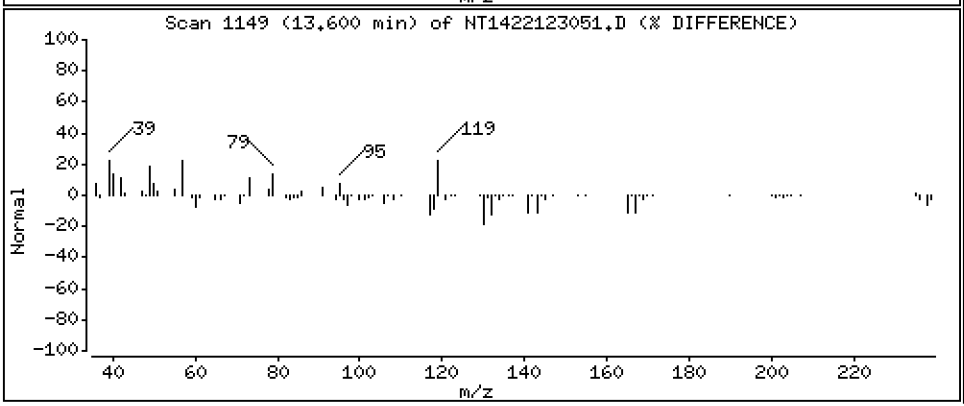












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

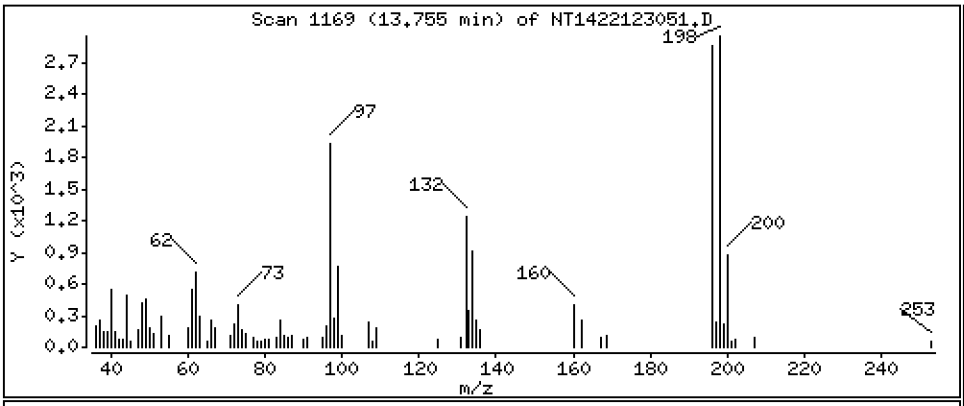
Operator: VTS

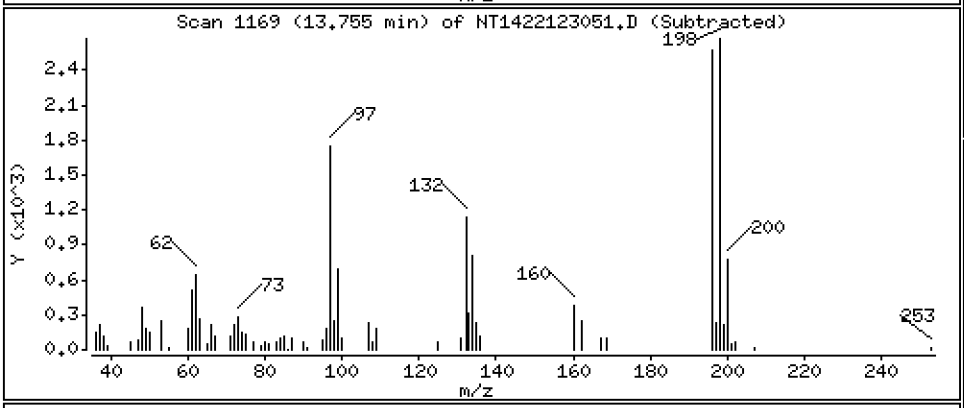
Column phase: ZB-5msi

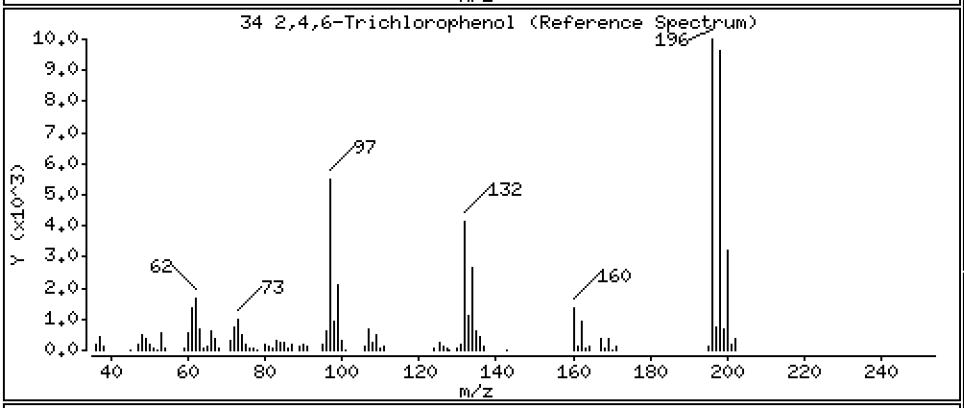
Column diameter: 0.25

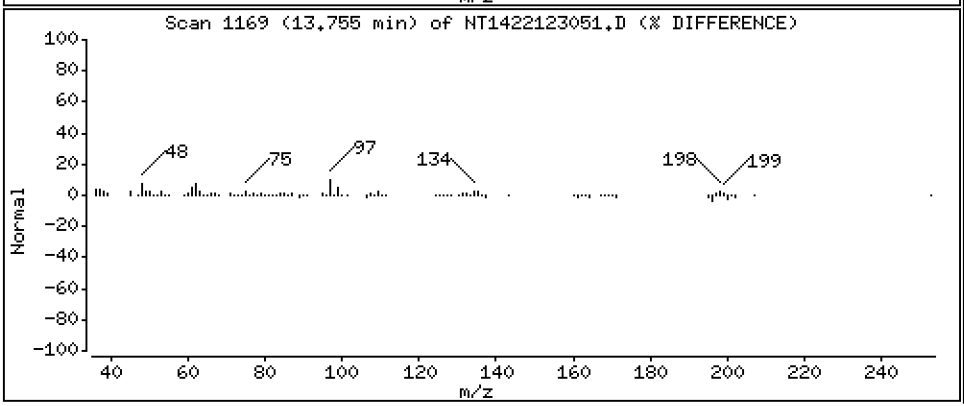
34 2,4,6-Trichlorophenol

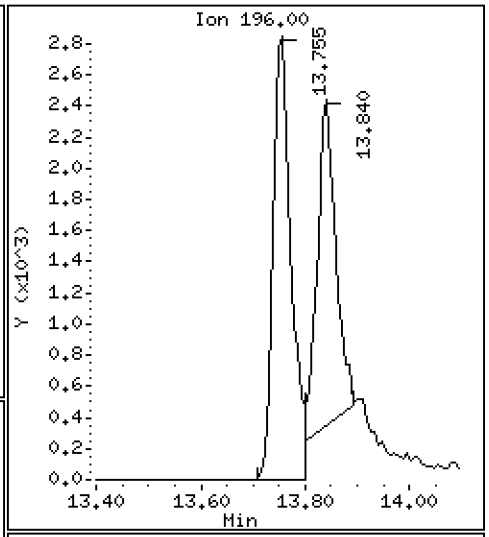
Concentration: 0.3746 ug/mL

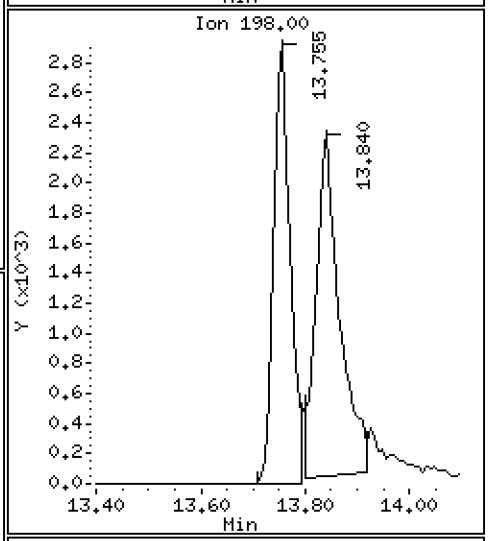


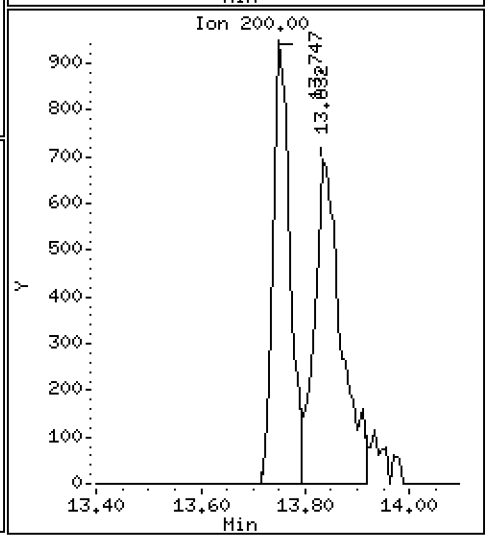












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

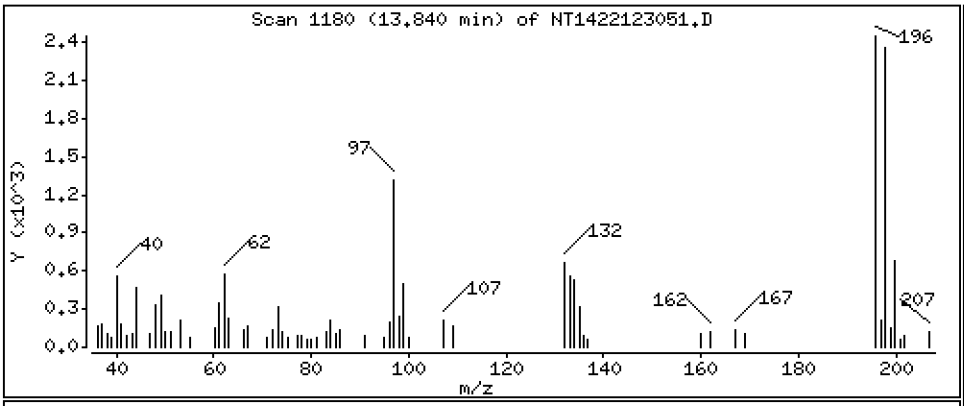
Operator: VTS

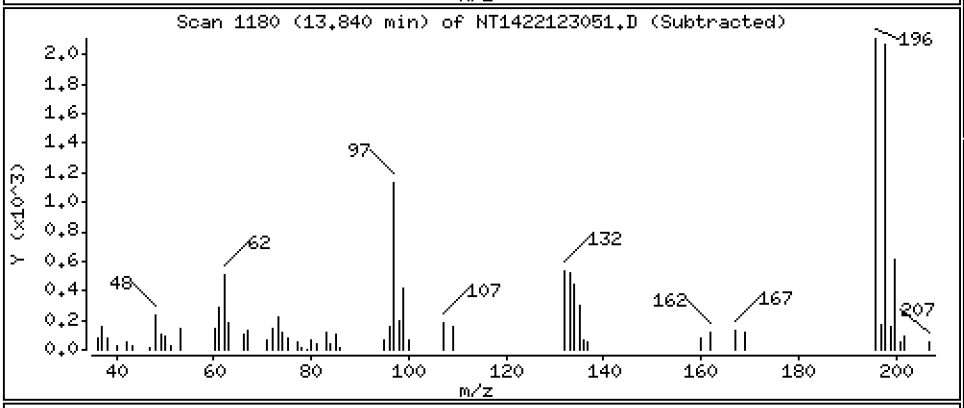
Column phase: ZB-5msi

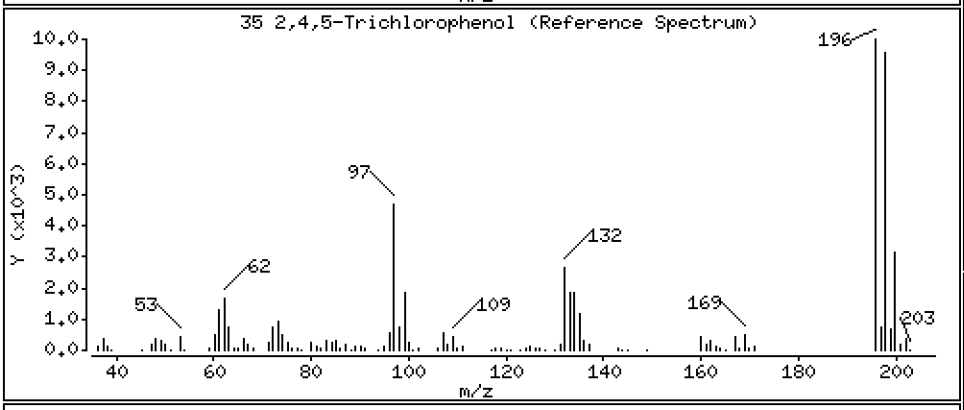
Column diameter: 0.25

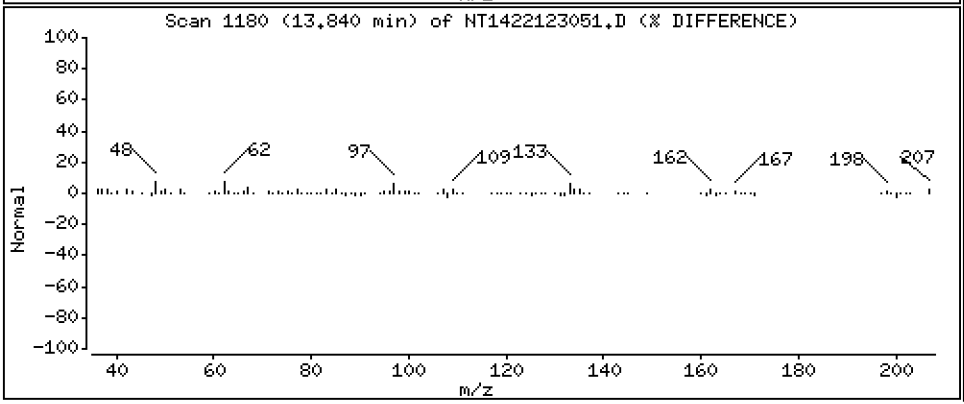
35 2,4,5-Trichlorophenol

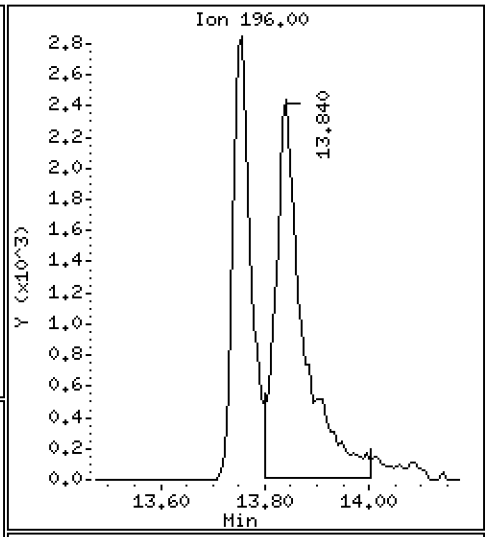
Concentration: 0.4316 ug/mL

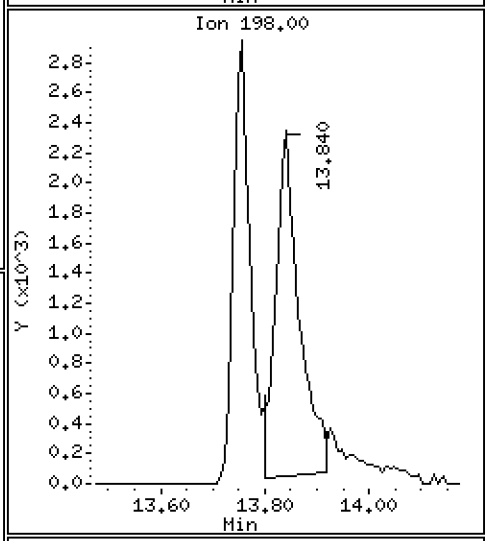


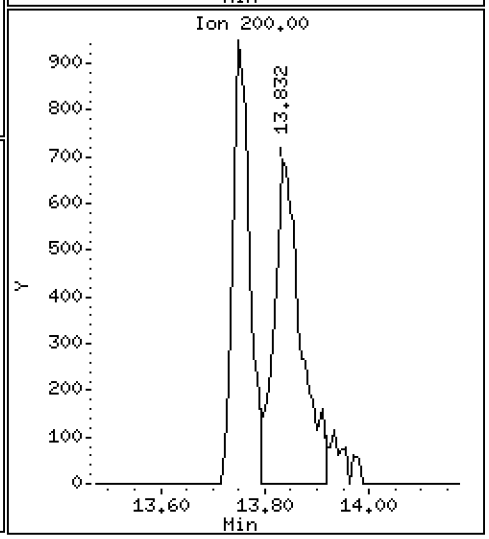












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

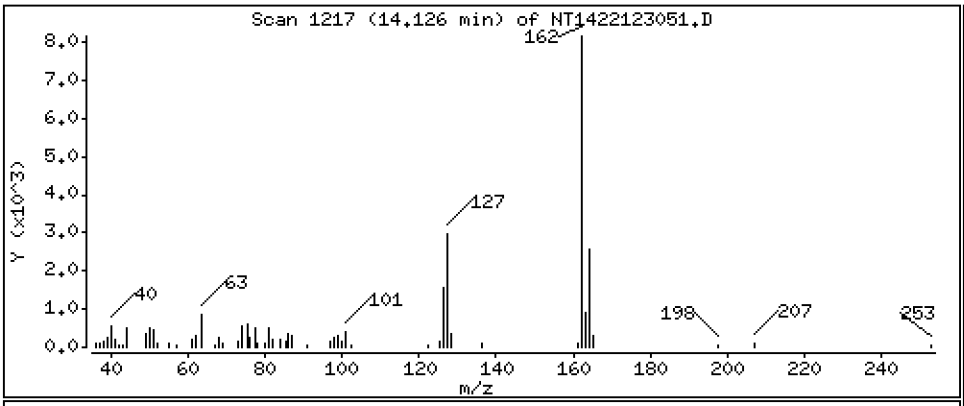
Operator: VTS

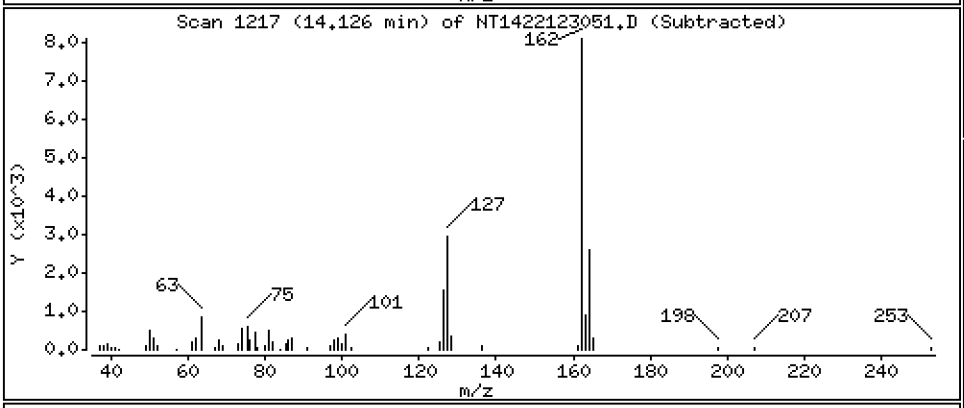
Column phase: ZB-5msi

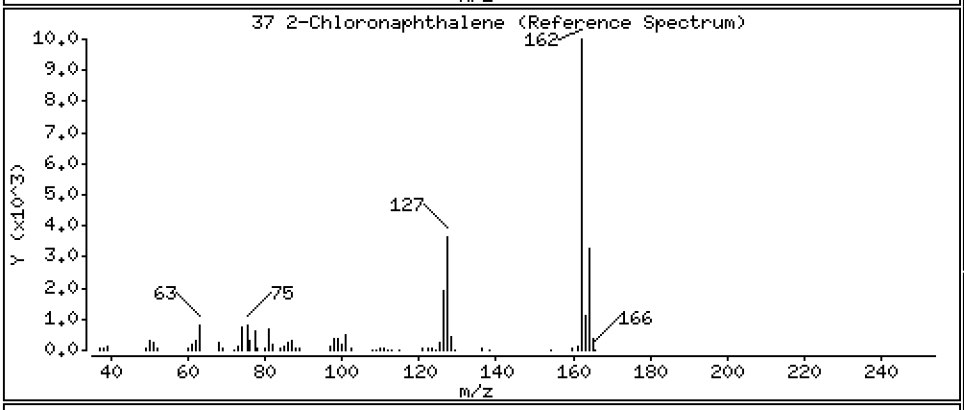
Column diameter: 0.25

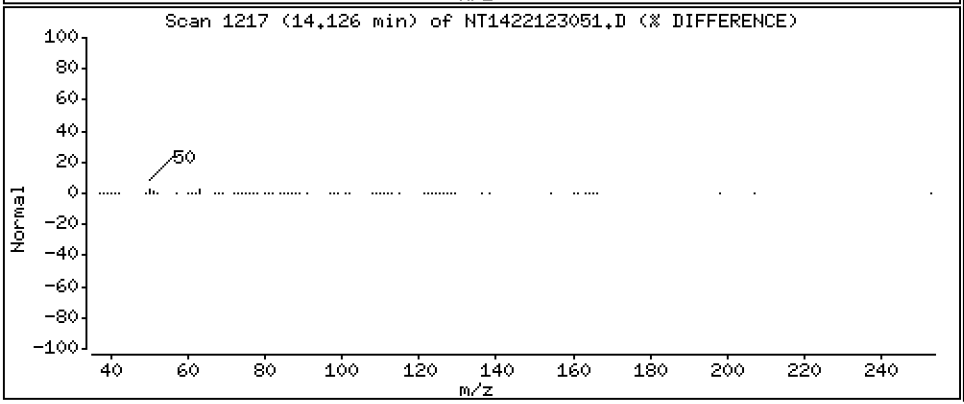
37 2-Chloronaphthalene

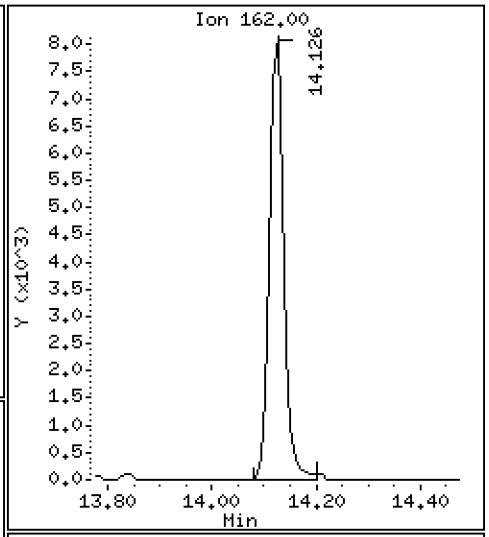
Concentration: 0.2372 ug/mL

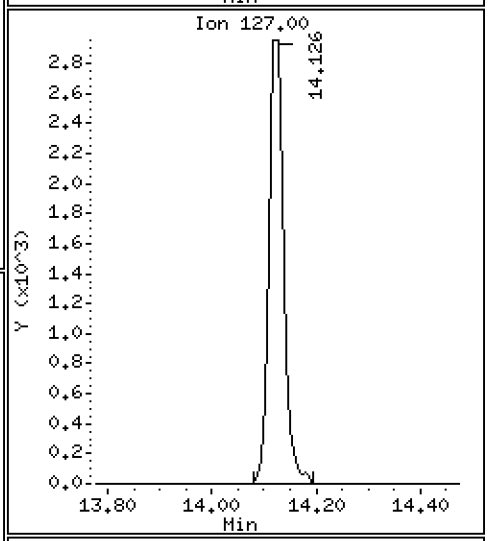


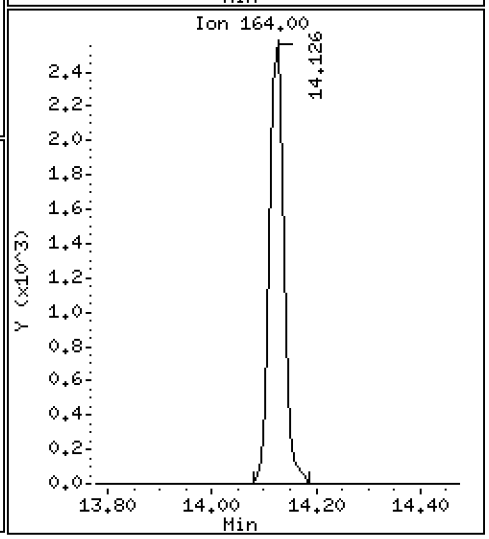












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

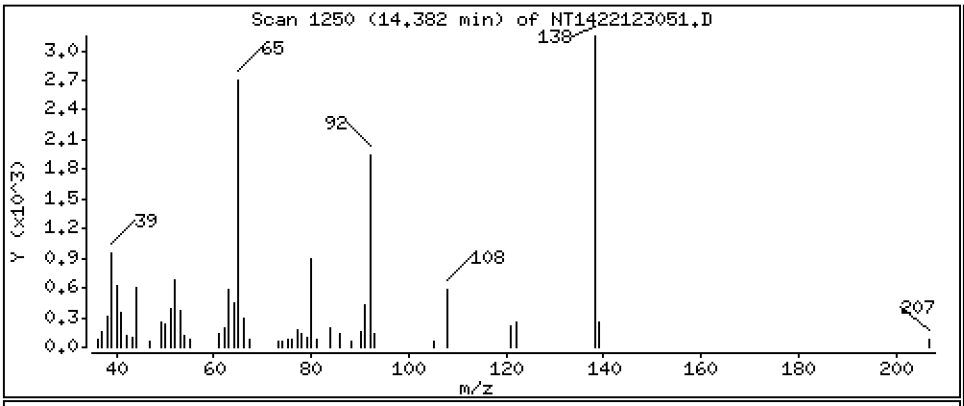
Operator: VTS

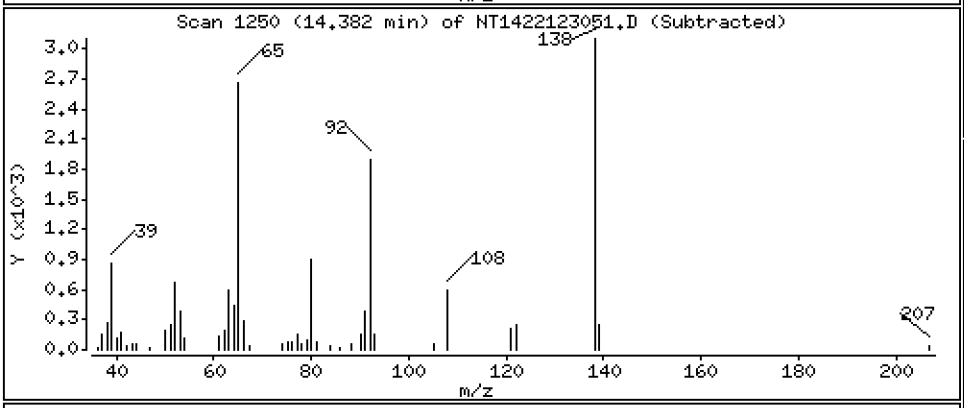
Column phase: ZB-5msi

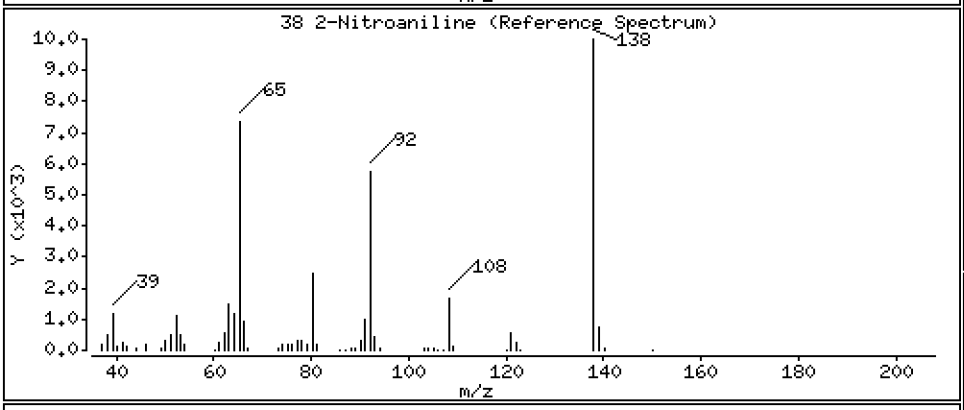
Column diameter: 0.25

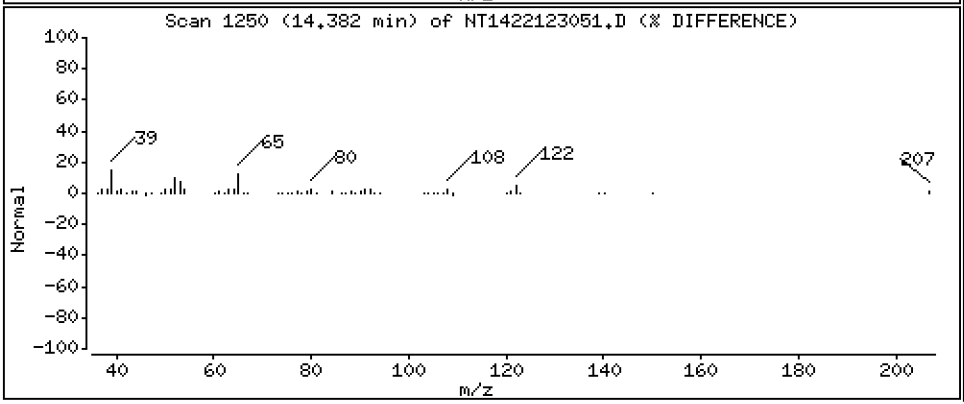
38 2-Nitroaniline

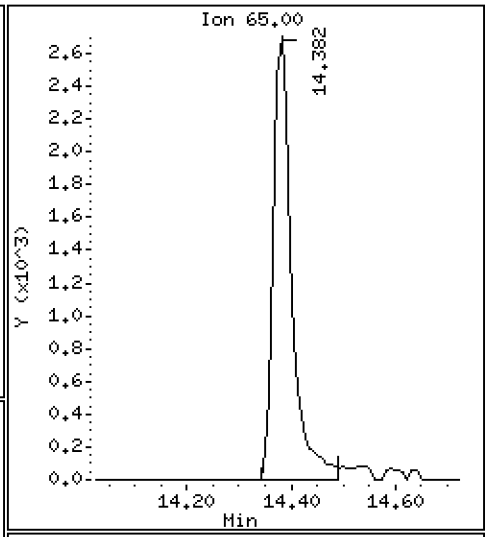
Concentration: 0.3972 ug/mL

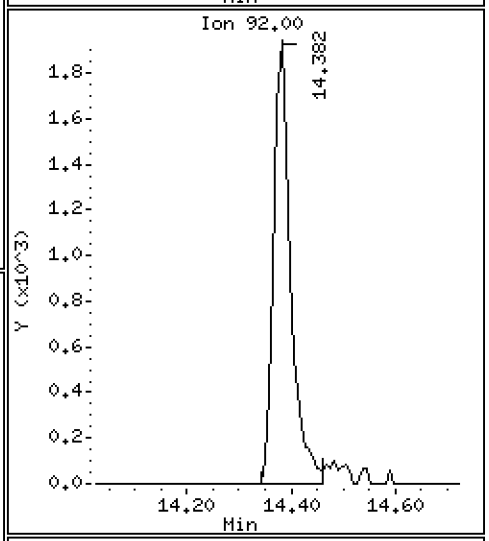


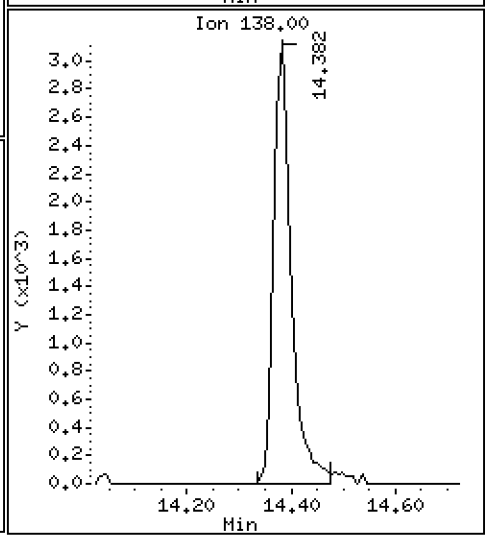












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

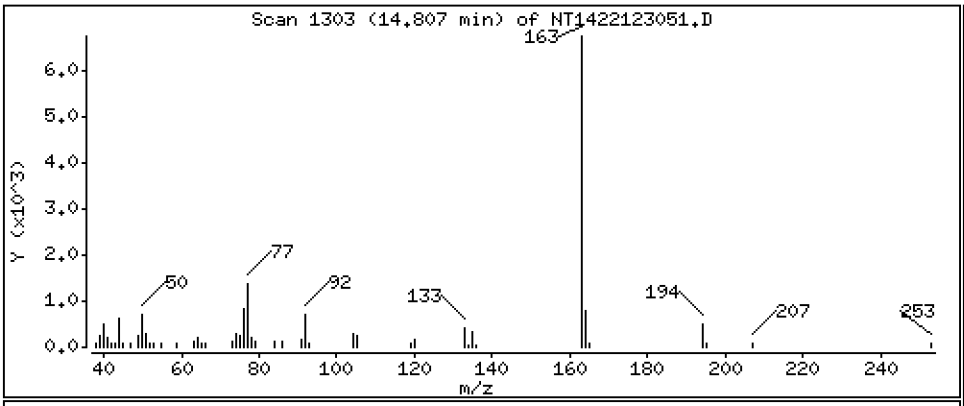
Operator: VTS

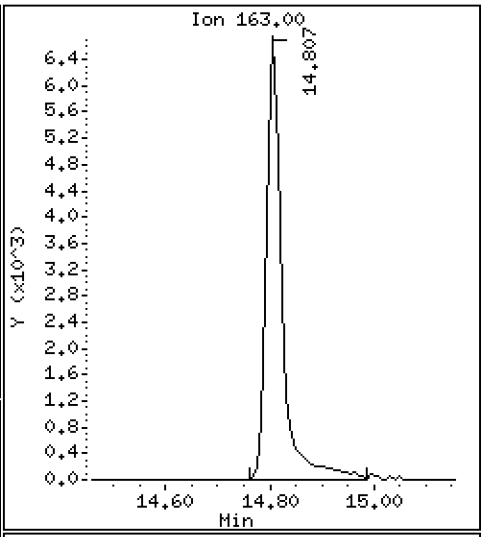
Column phase: ZB-5msi

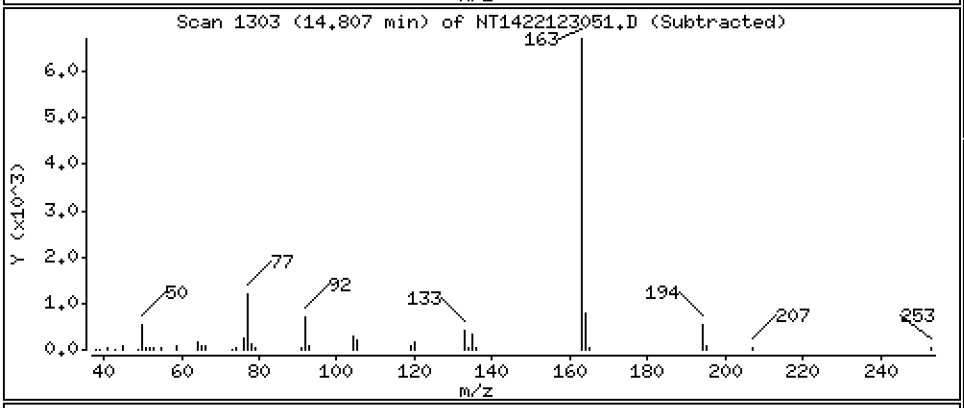
Column diameter: 0.25

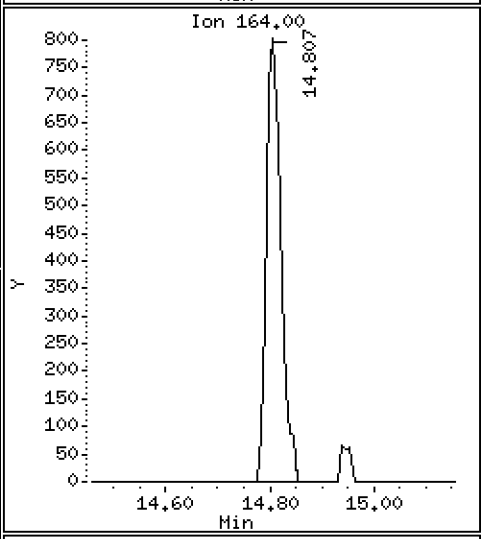
39 Dimethylphthalate

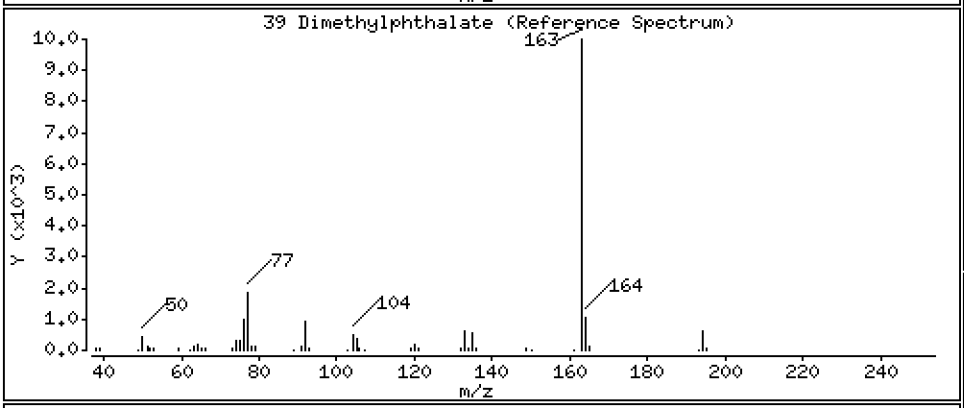
Concentration: 0.2231 ug/mL

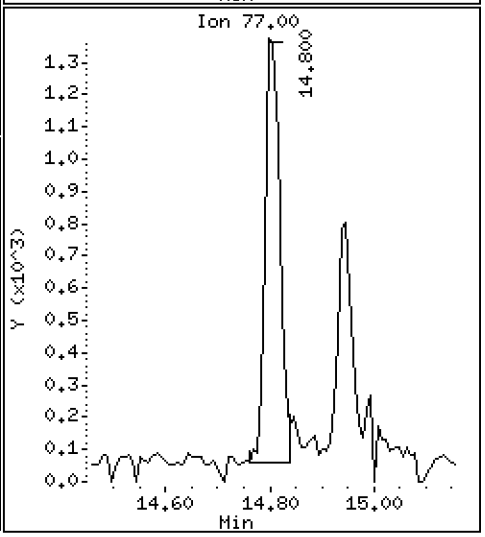


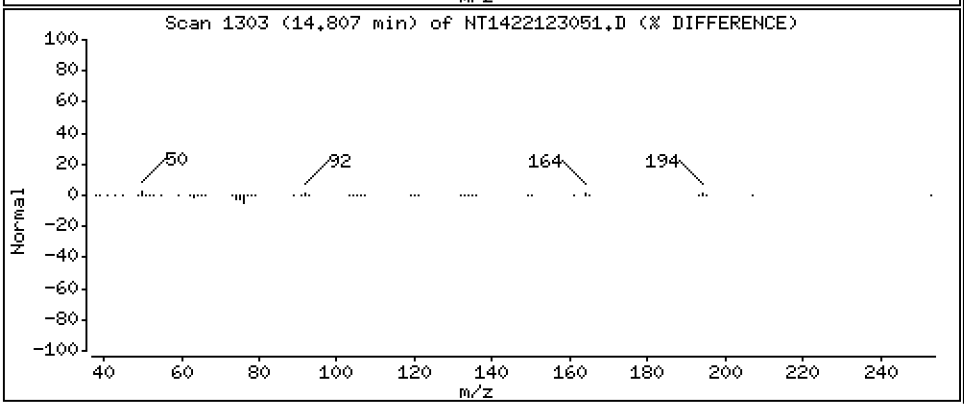












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

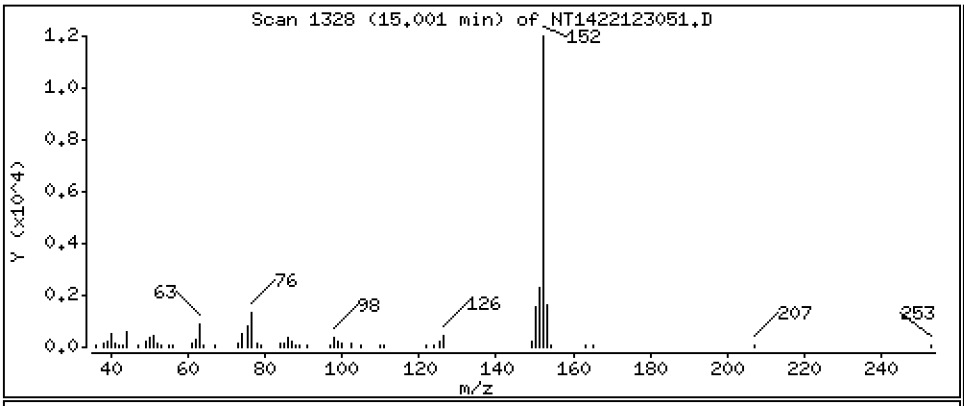
Operator: VTS

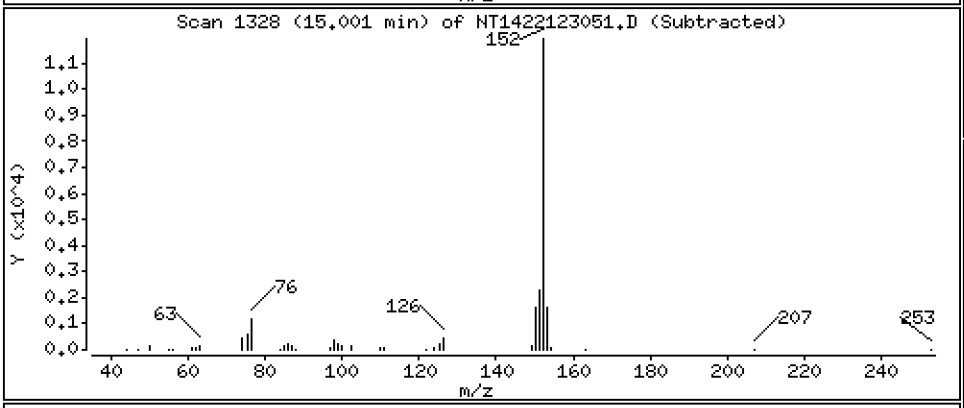
Column phase: ZB-5msi

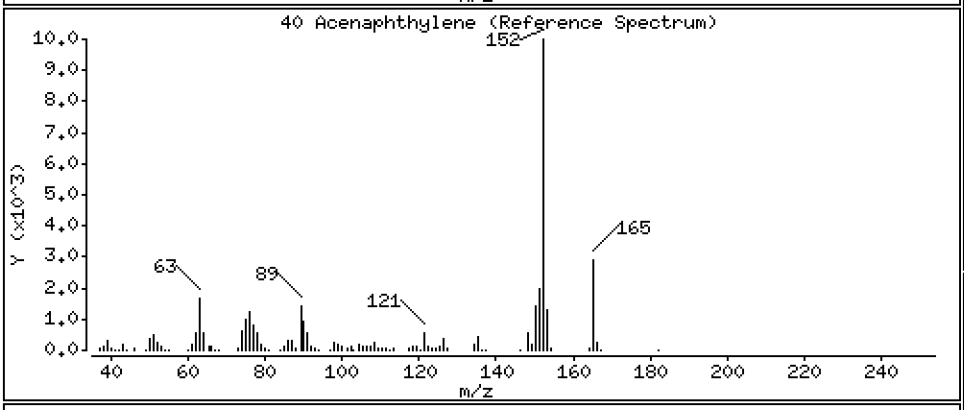
Column diameter: 0.25

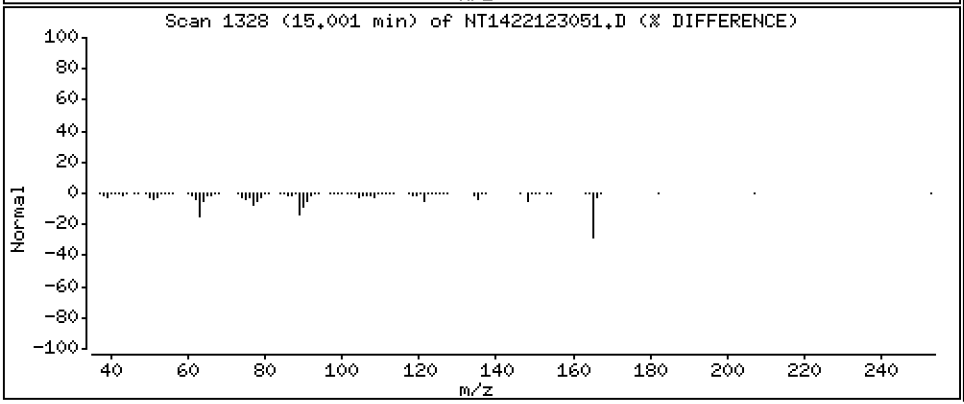
40 Acenaphthylene

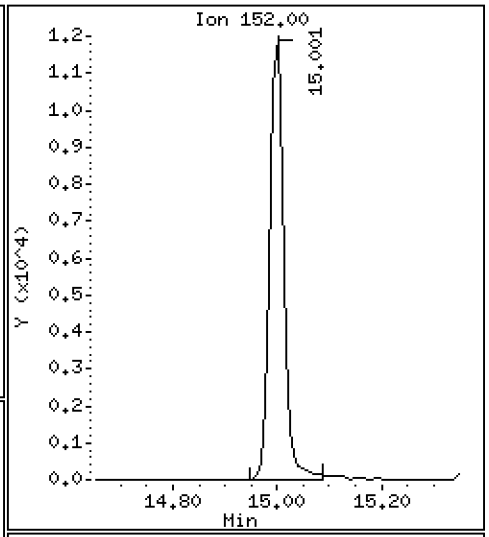
Concentration: 0.2256 ug/mL

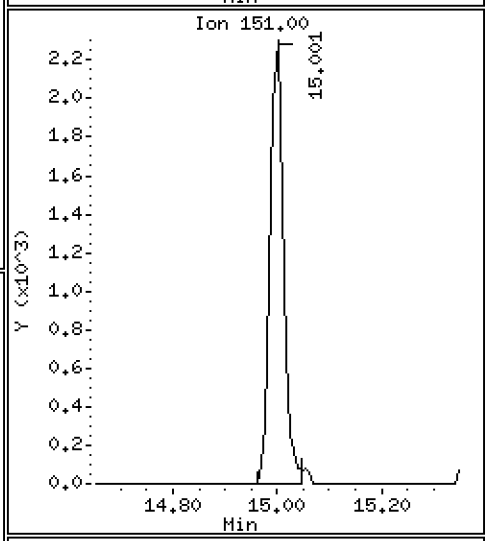


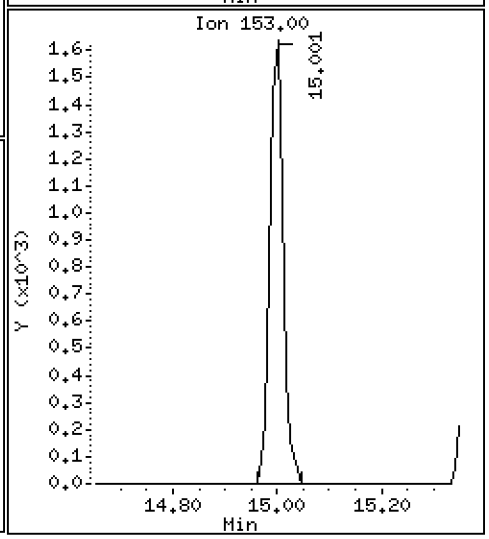












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

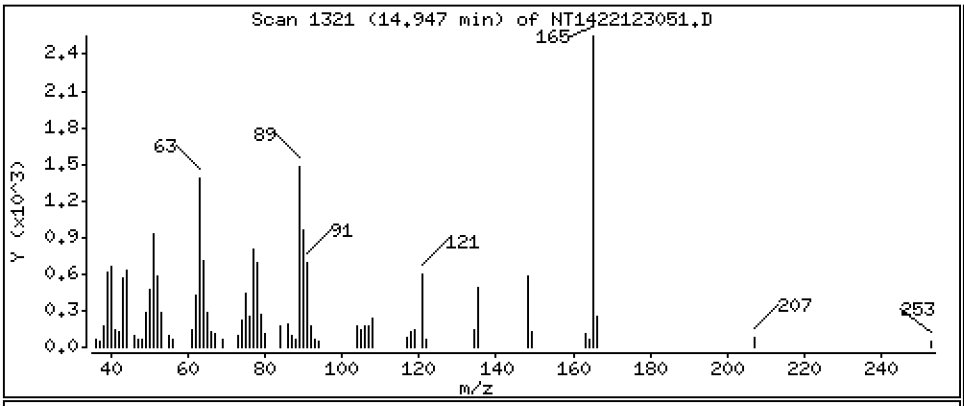
Operator: VTS

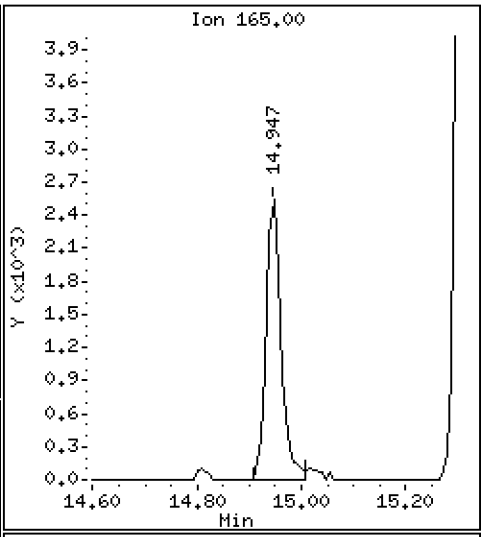
Column phase: ZB-5msi

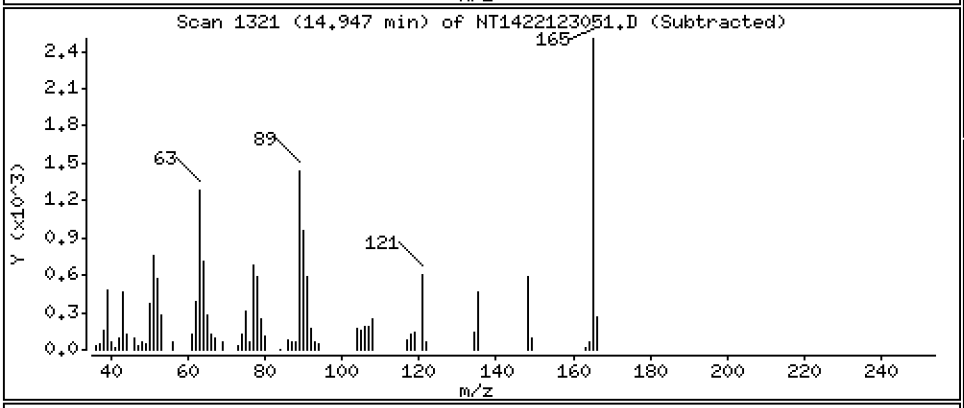
Column diameter: 0.25

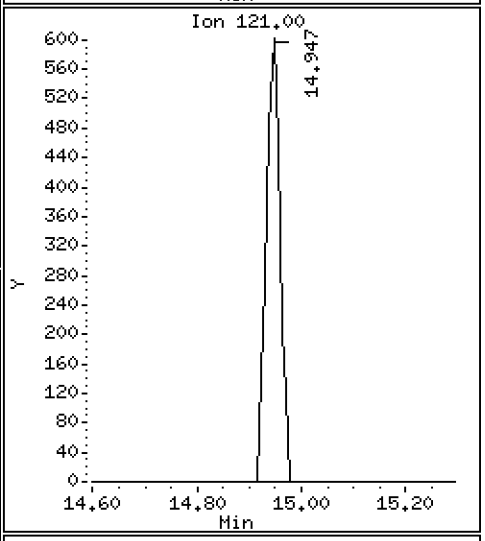
41 2,6-Dinitrotoluene

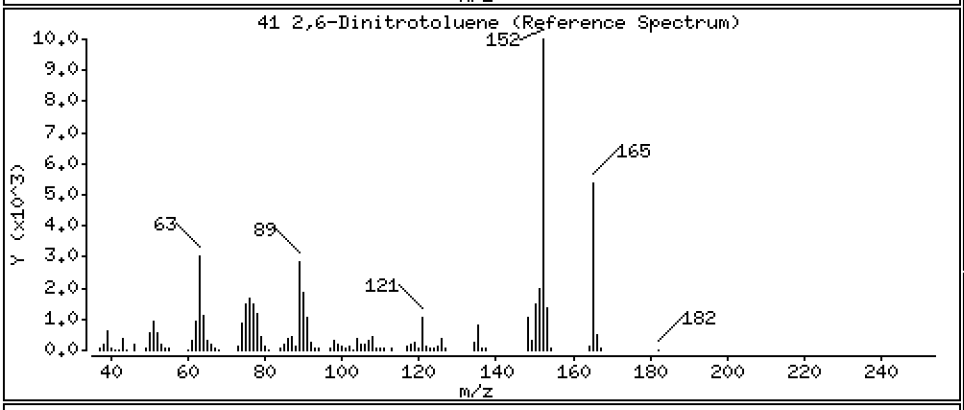
Concentration: 0.3515 ug/mL

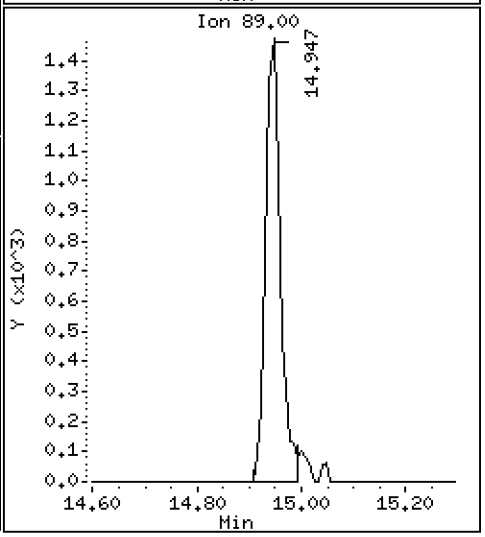


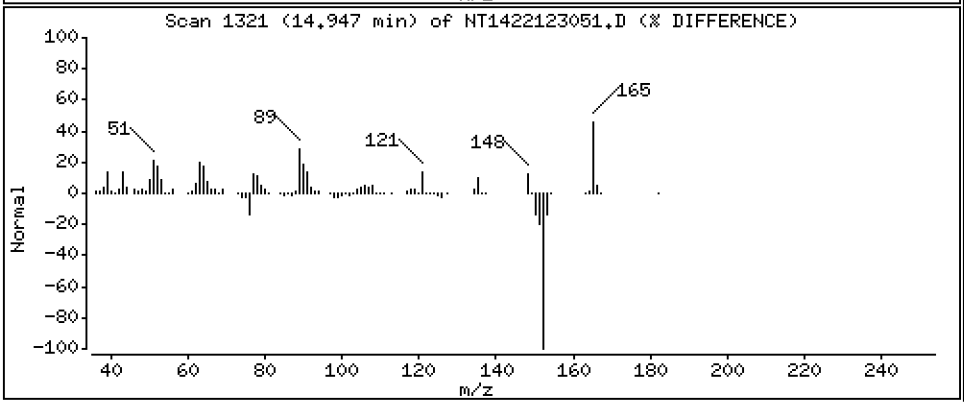












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

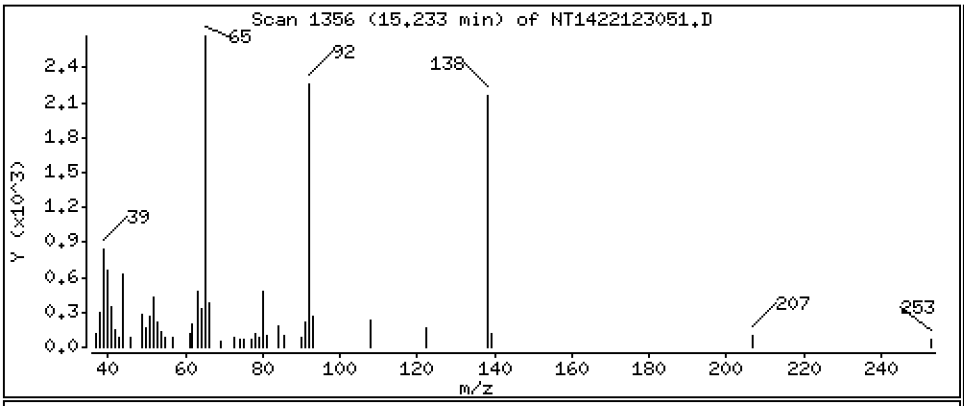
Operator: VTS

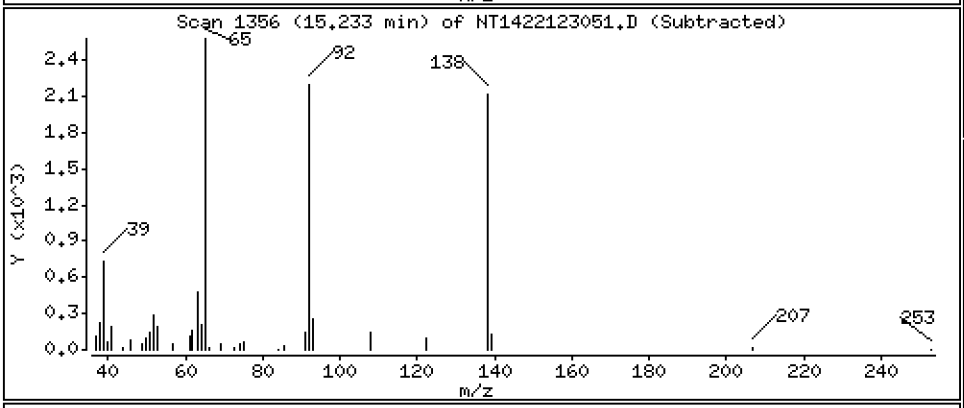
Column phase: ZB-5msi

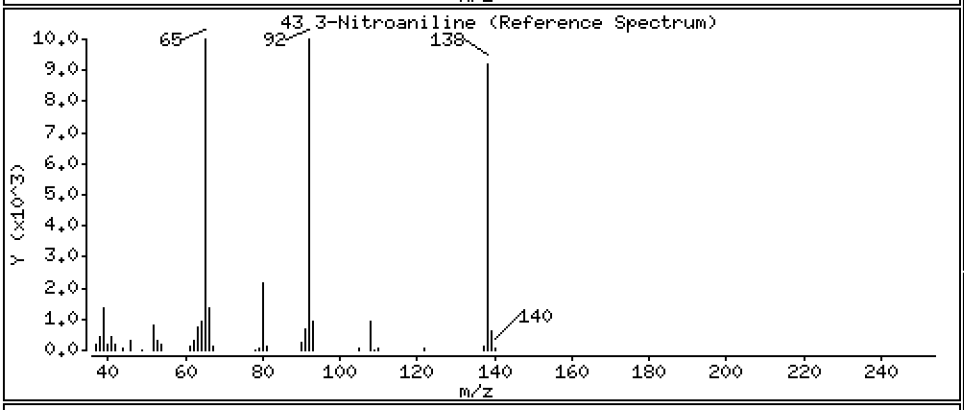
Column diameter: 0.25

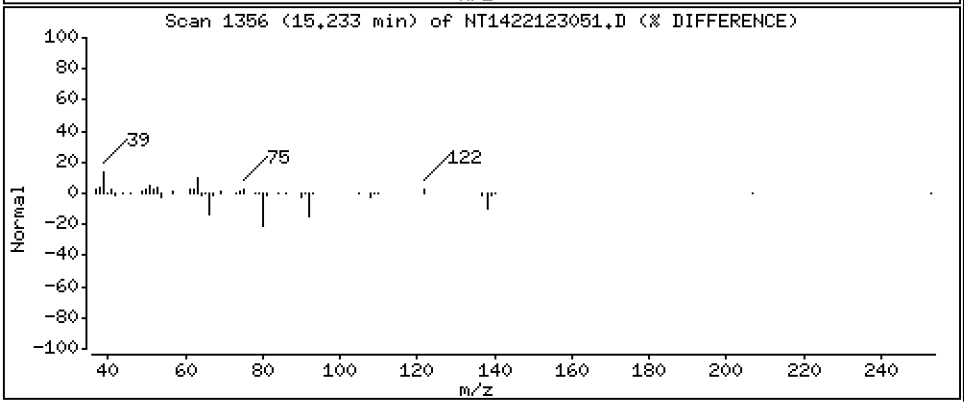
43 3-Nitroaniline

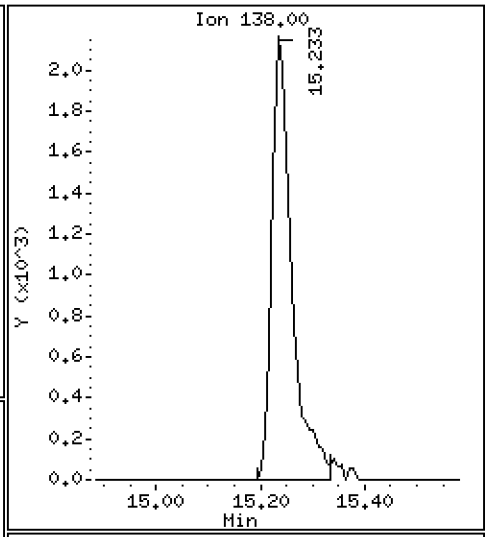
Concentration: 0.3370 ug/mL

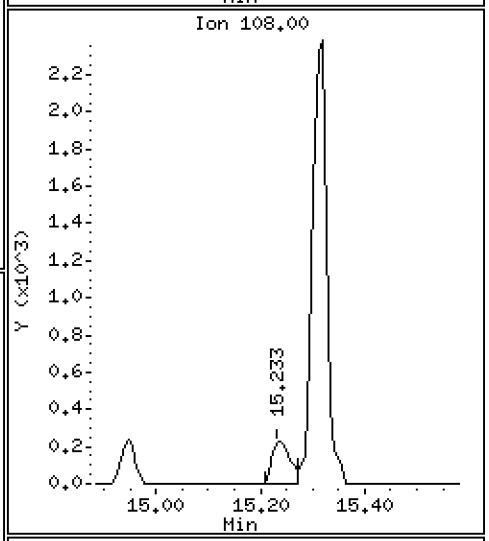


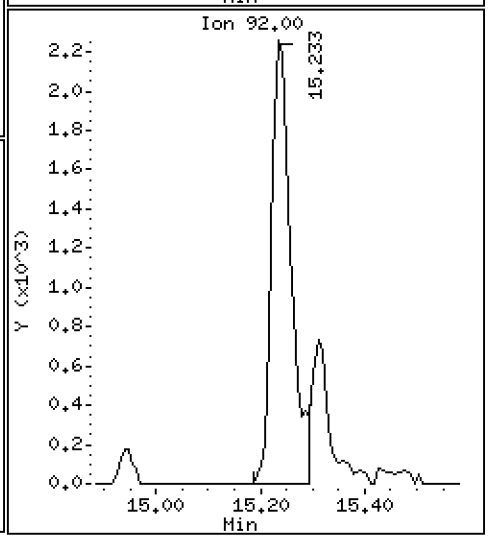












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

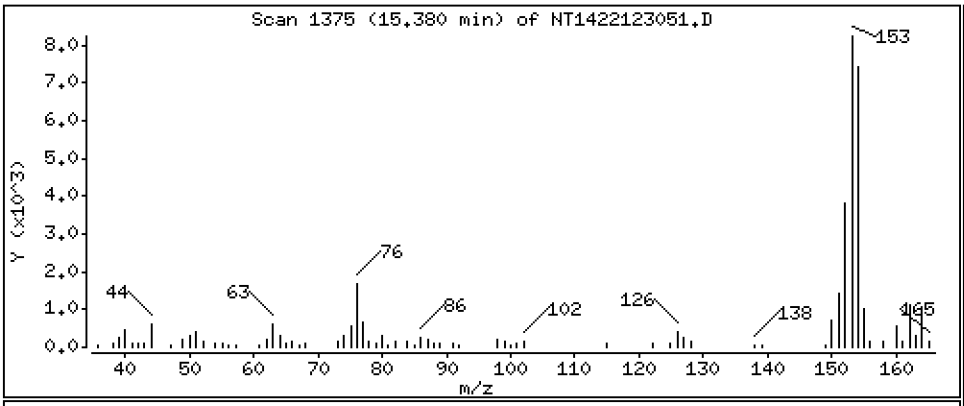
Operator: VTS

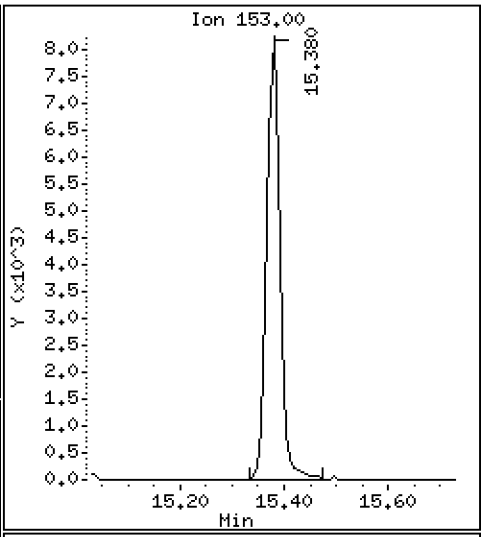
Column phase: ZB-5msi

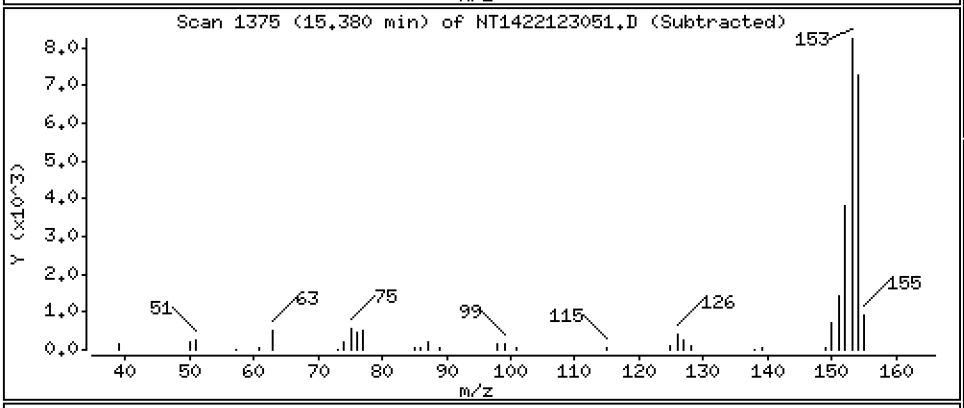
Column diameter: 0.25

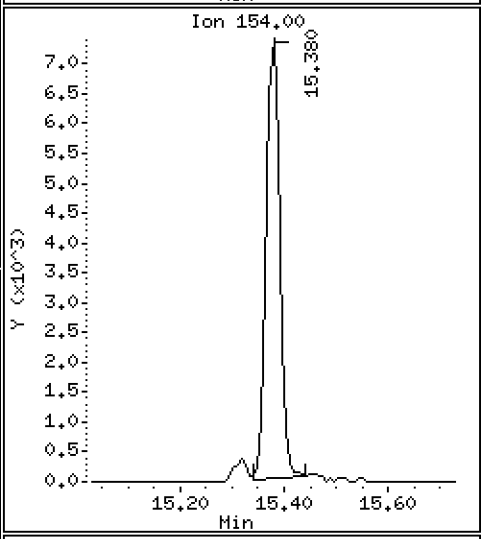
44 Acenaphthene

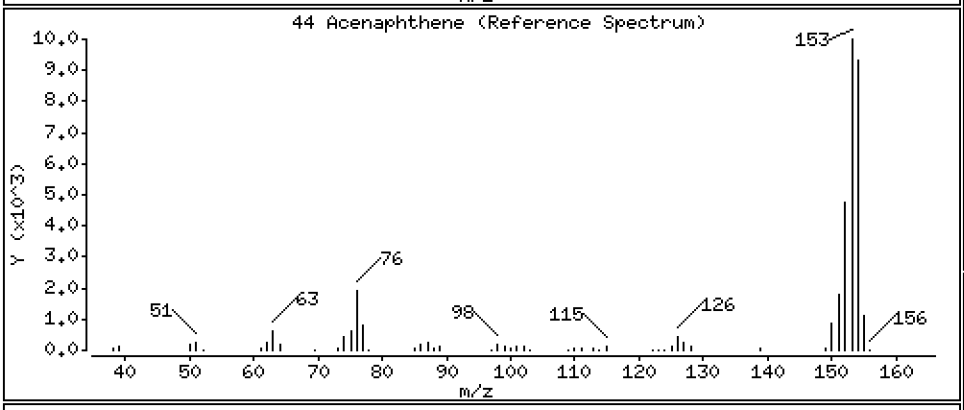
Concentration: 0.2351 ug/mL

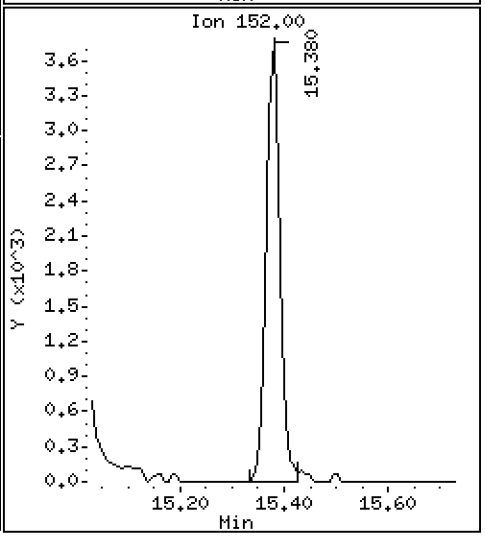


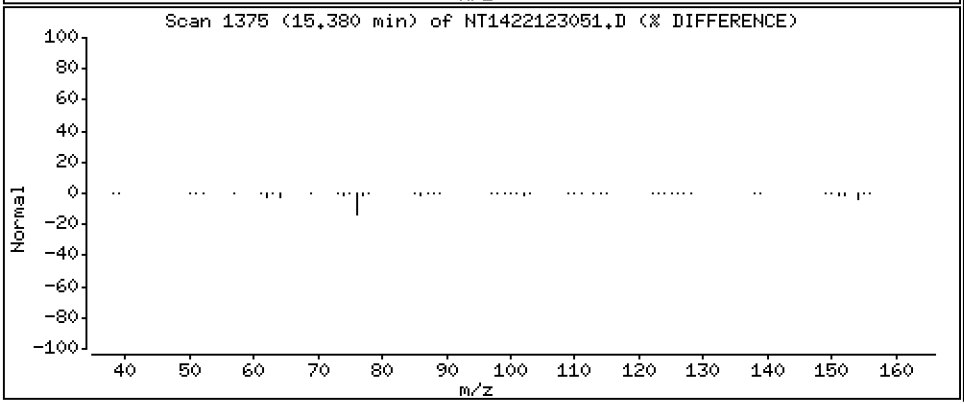












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

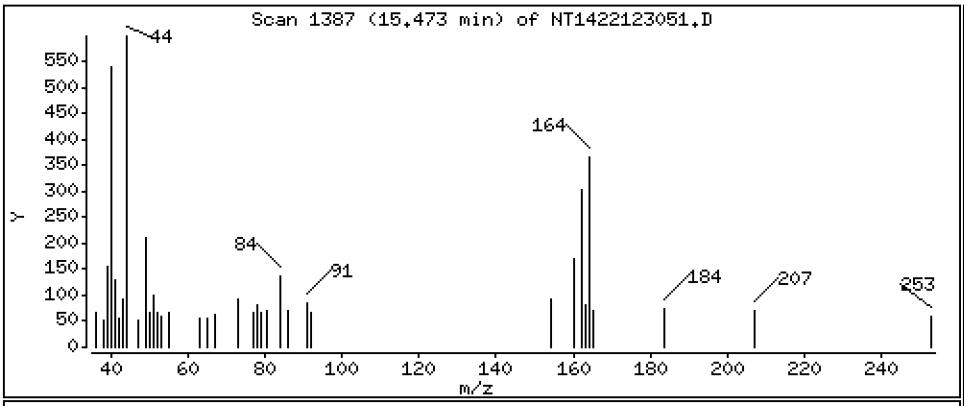
Operator: VTS

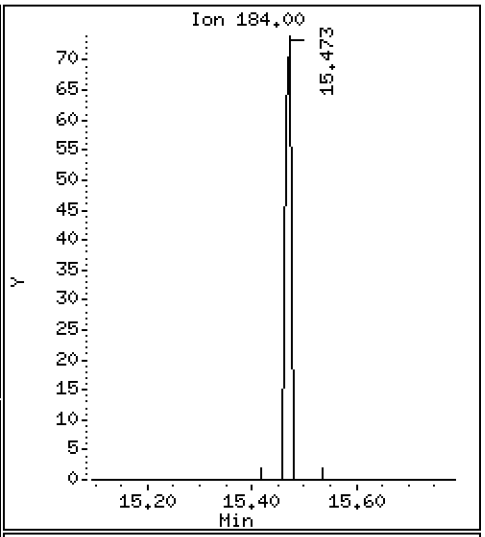
Column phase: ZB-5msi

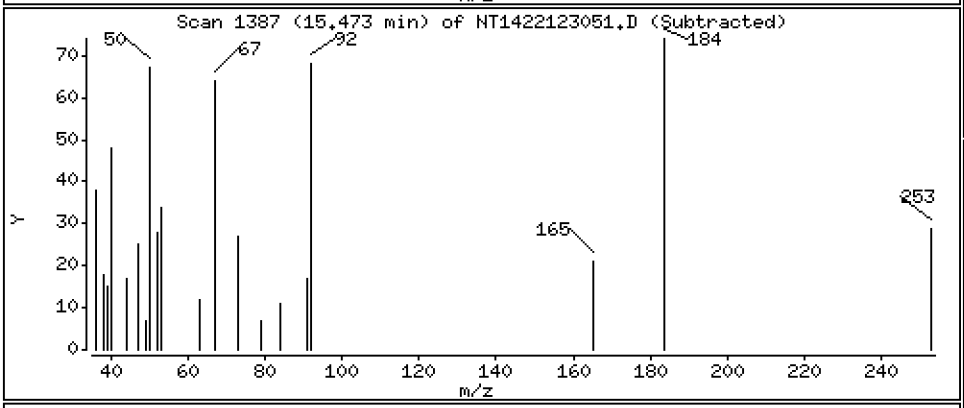
Column diameter: 0.25

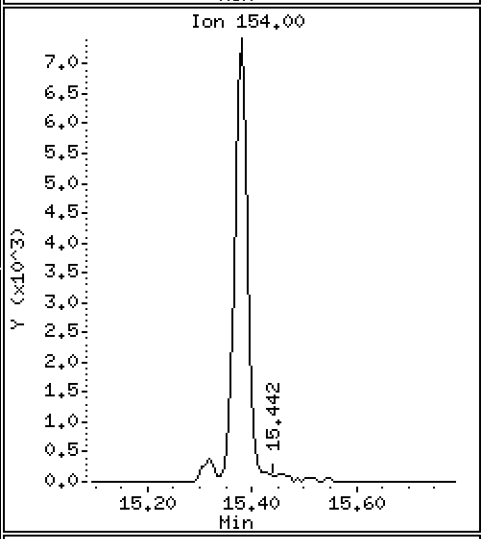
45 2,4-Dinitrophenol

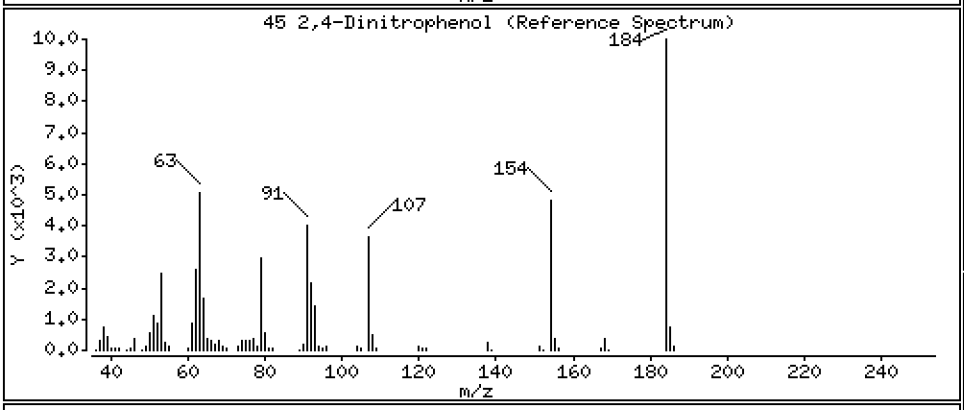
Concentration: 0.005296 ug/mL

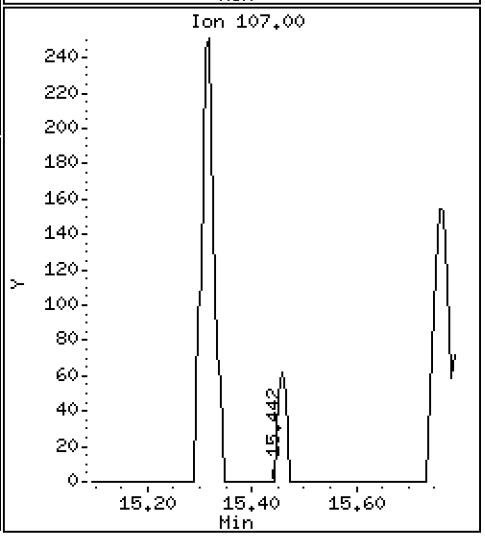


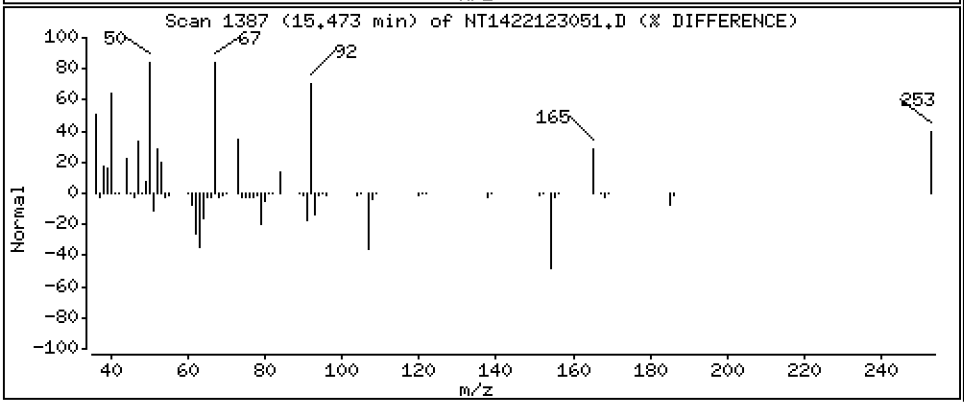












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

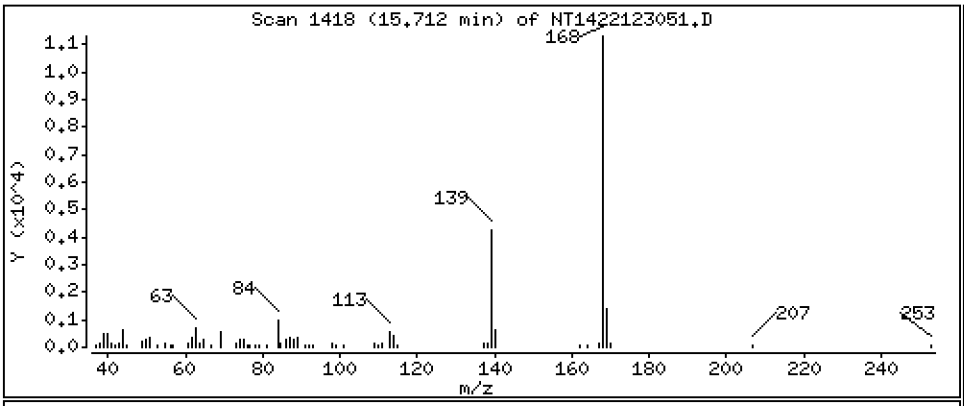
Operator: VTS

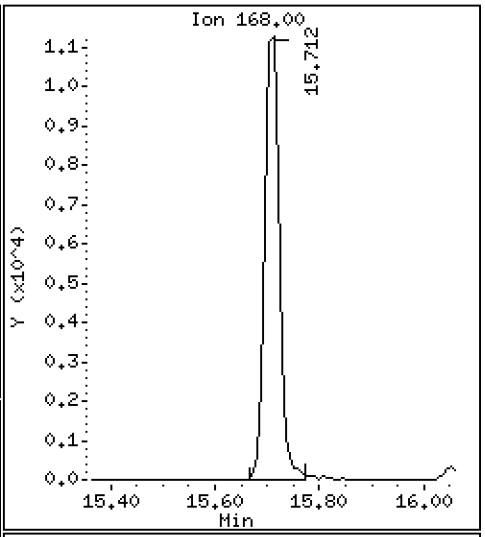
Column phase: ZB-5msi

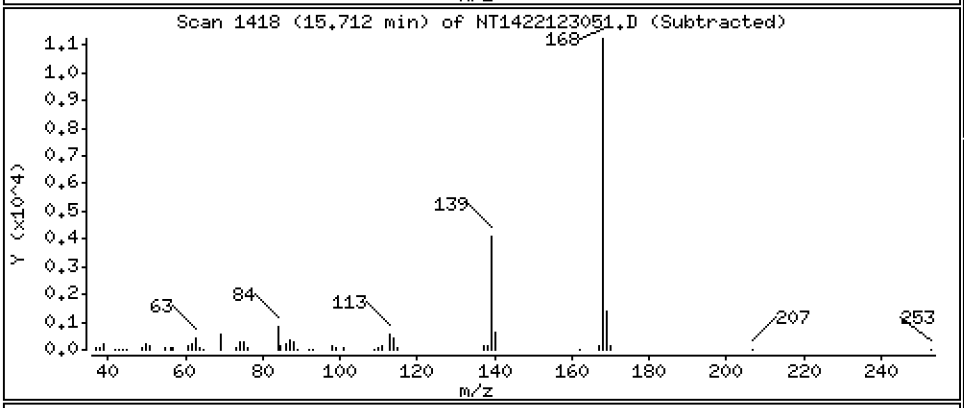
Column diameter: 0.25

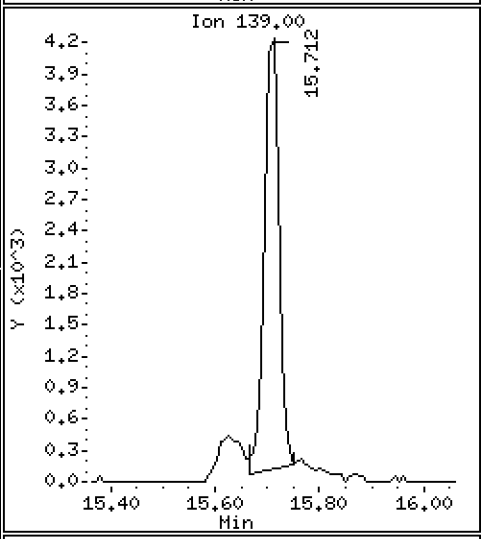
46 Dibenzofuran

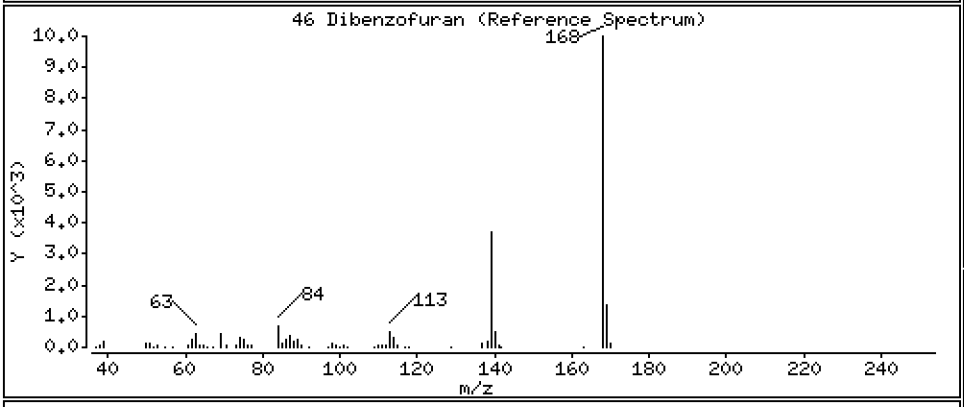
Concentration: 0.2405 ug/mL

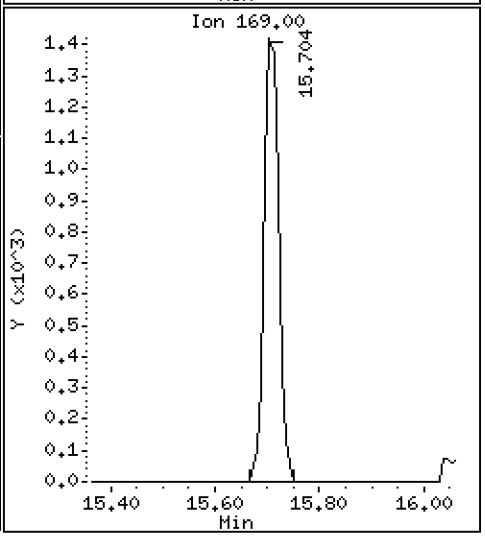


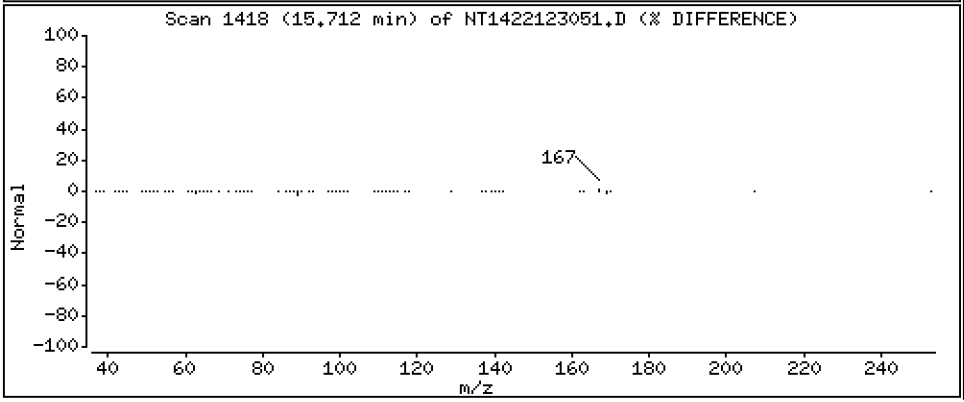












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

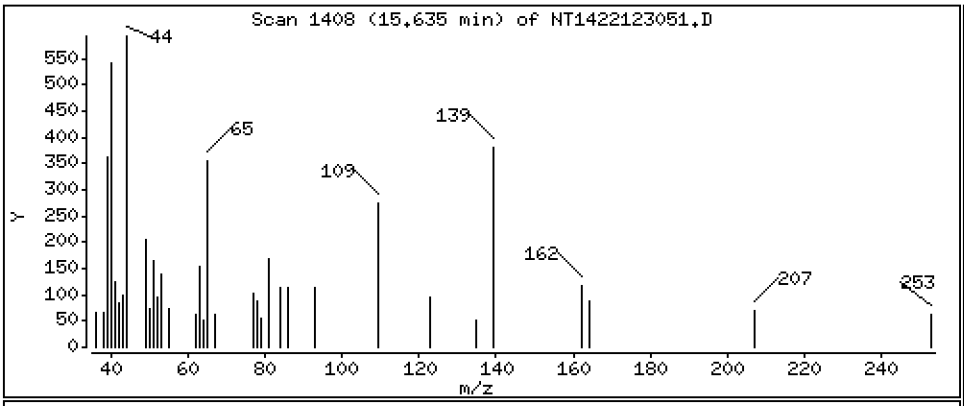
Operator: VTS

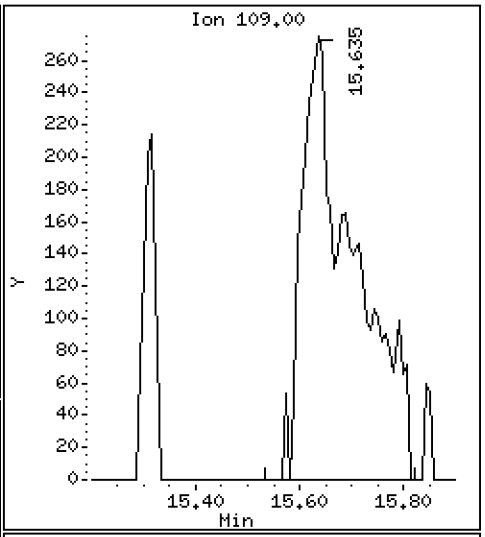
Column phase: ZB-5msi

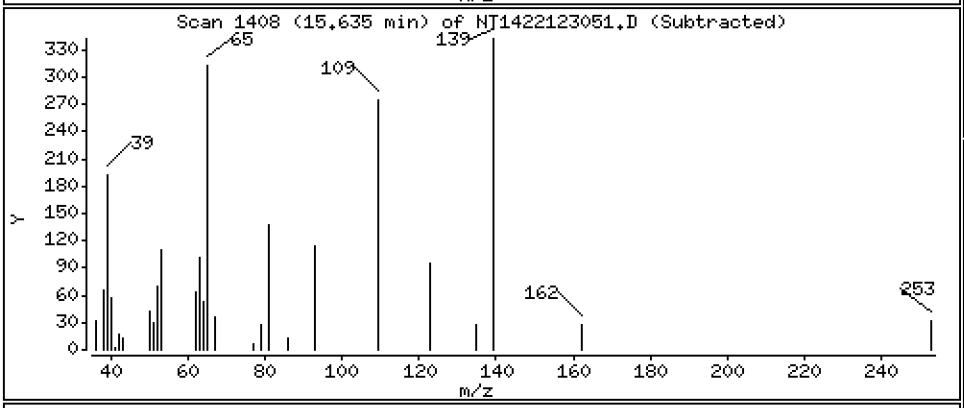
Column diameter: 0.25

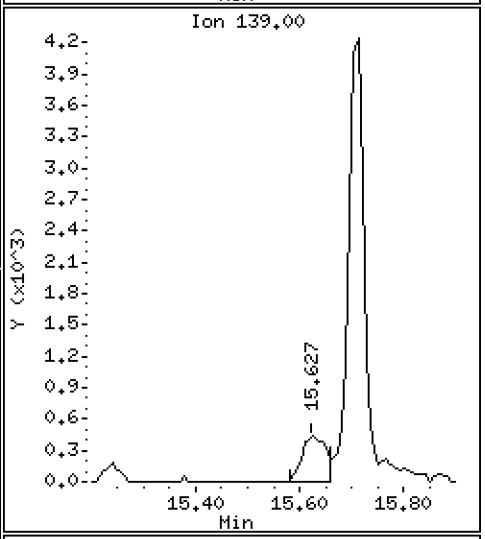
47 4-Nitrophenol

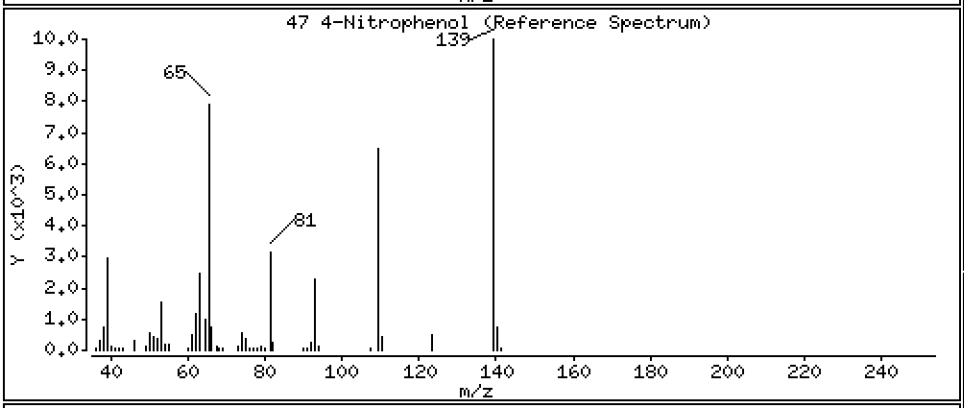
Concentration: 0.2375 ug/mL

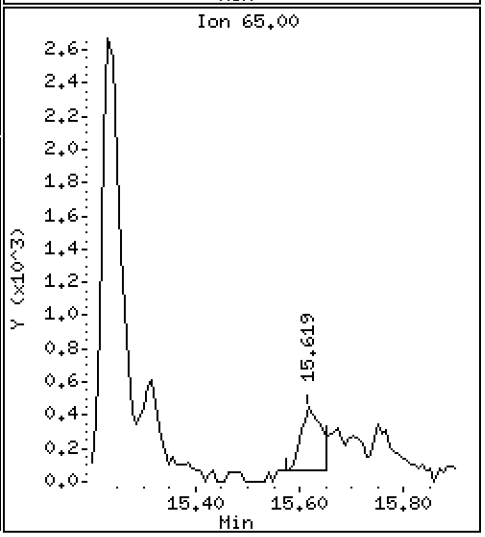


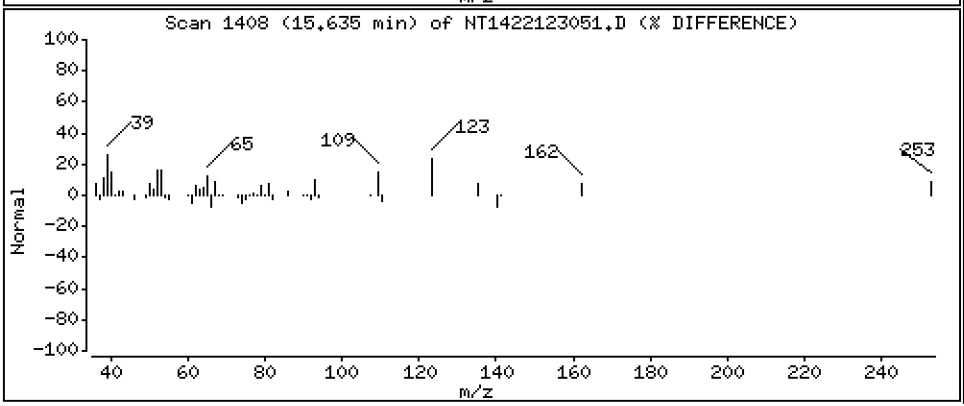












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

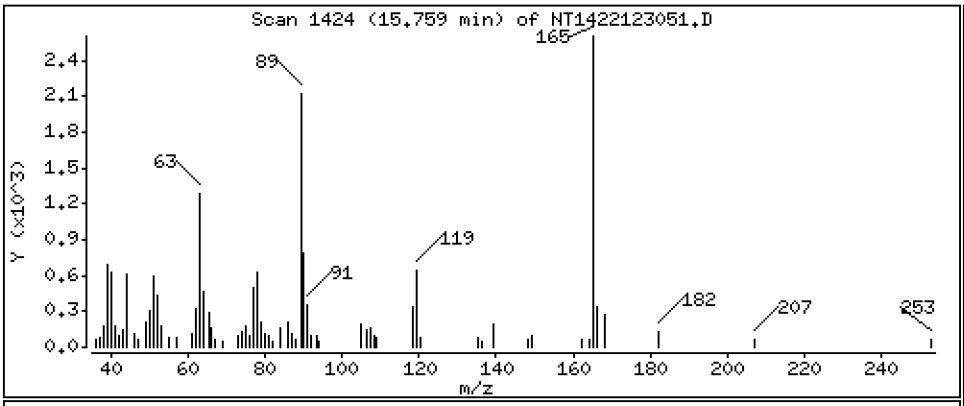
Operator: VTS

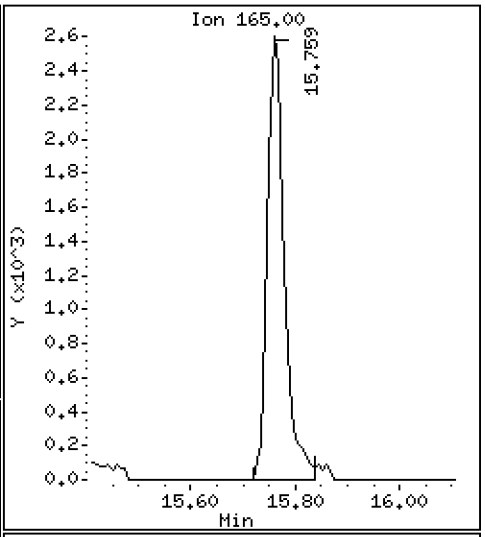
Column phase: ZB-5msi

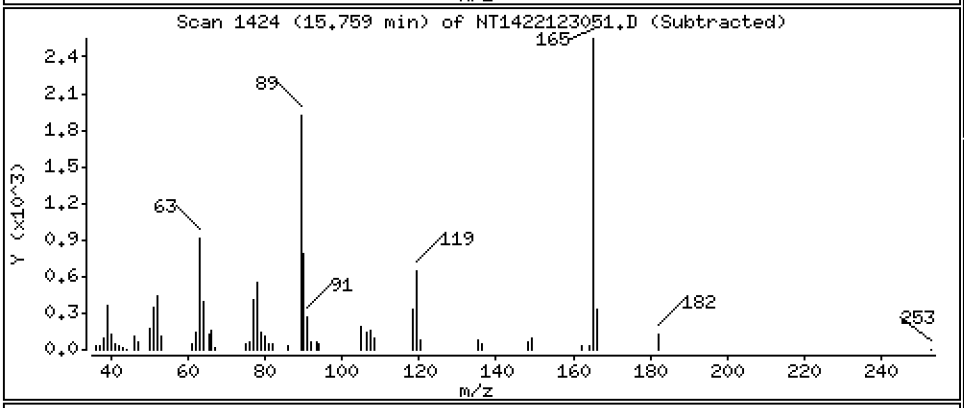
Column diameter: 0.25

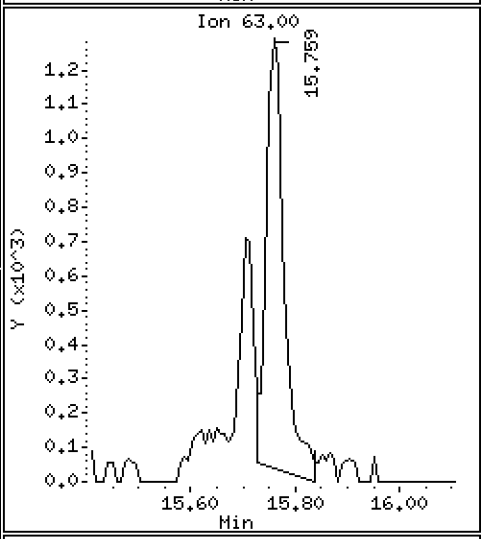
48 2,4-Dinitrotoluene

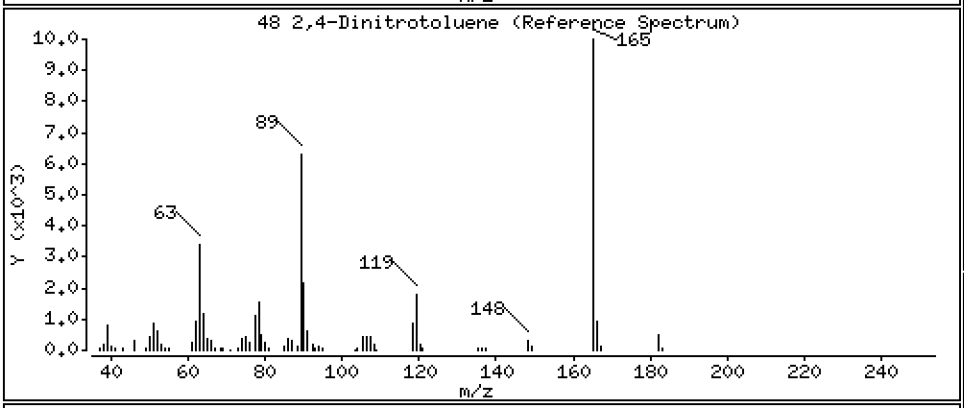
Concentration: 0.3020 ug/mL

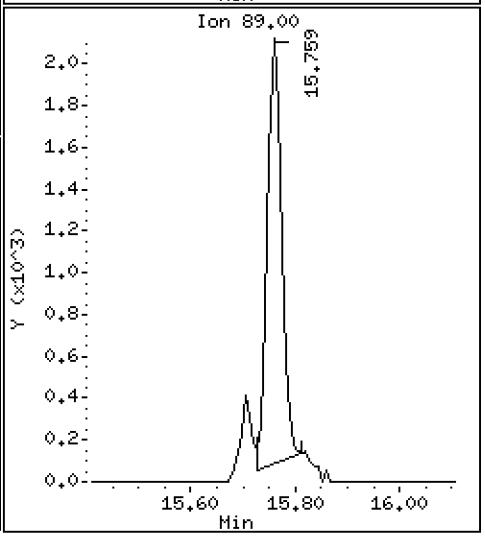


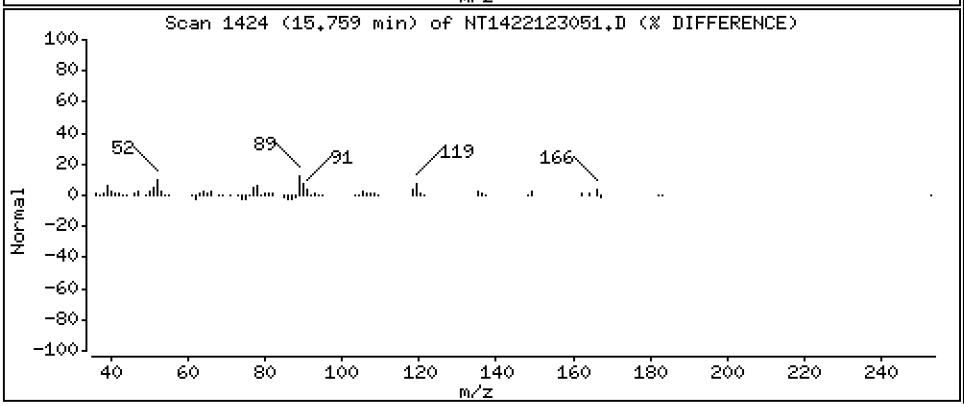












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

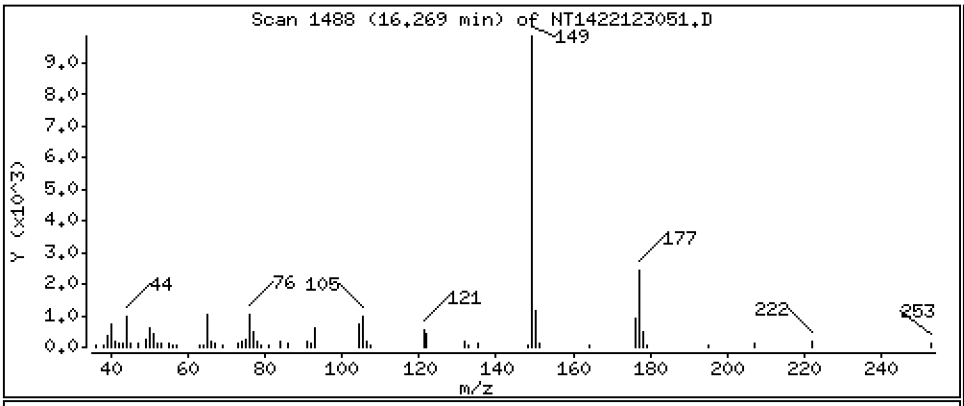
Operator: VTS

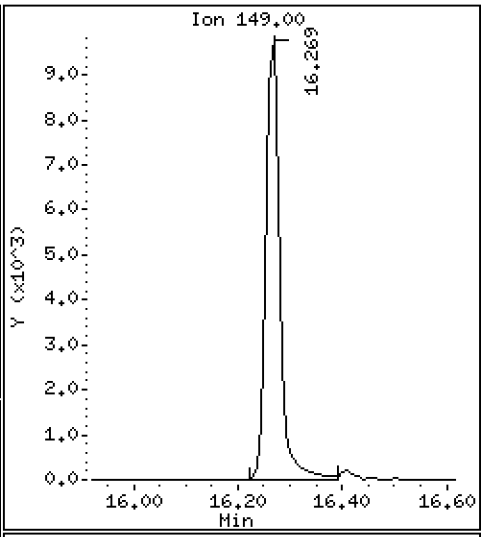
Column phase: ZB-5msi

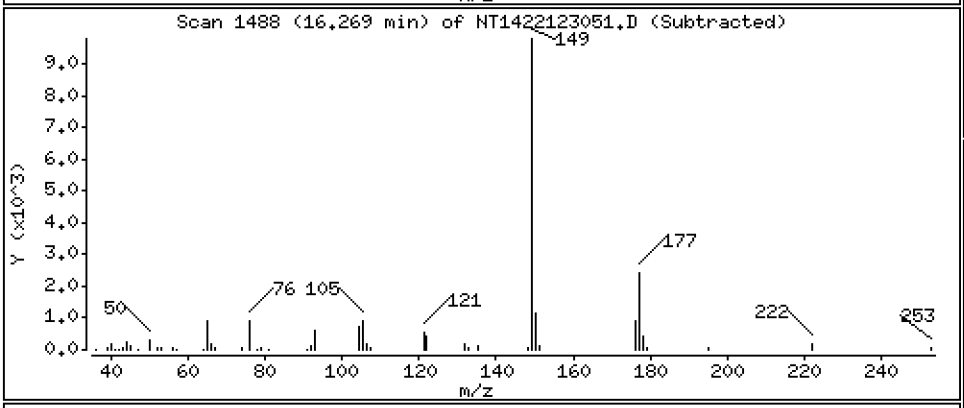
Column diameter: 0.25

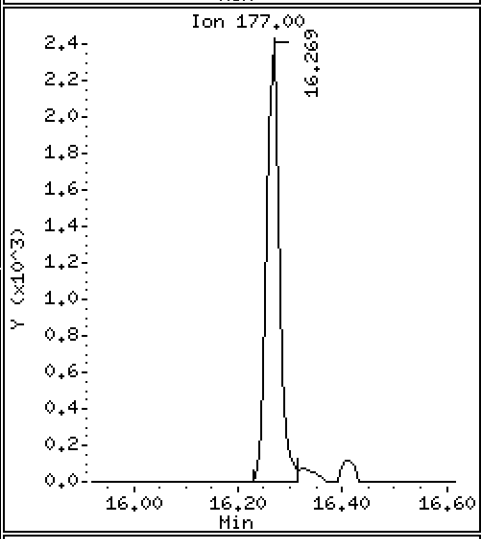
50 Diethylphthalate

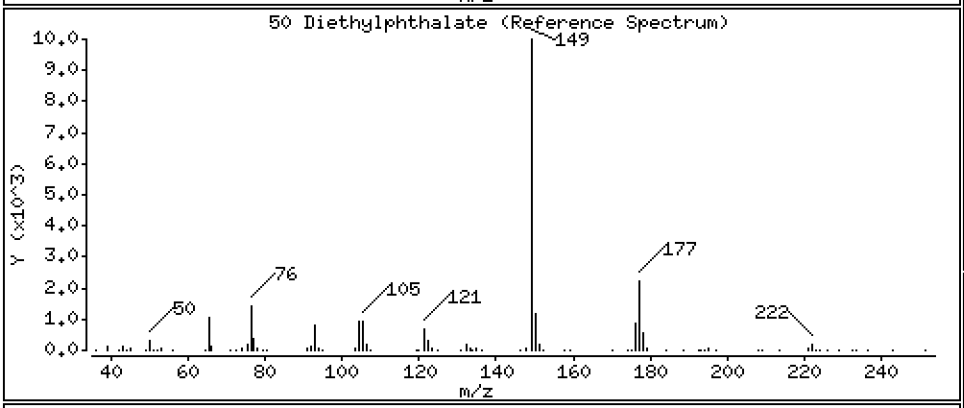
Concentration: 0.2277 ug/mL

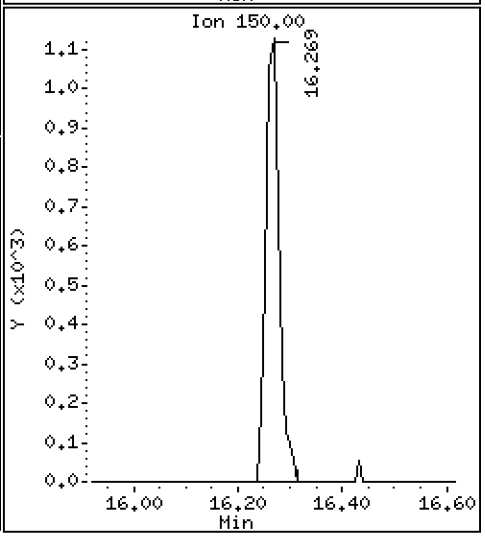


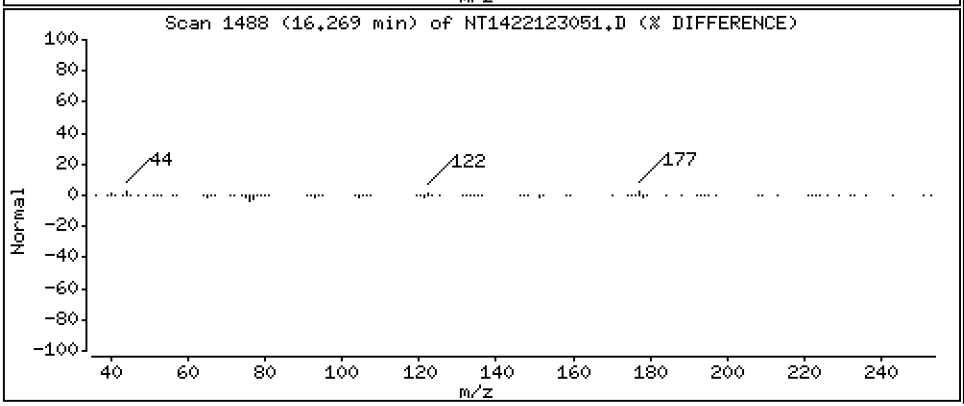












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

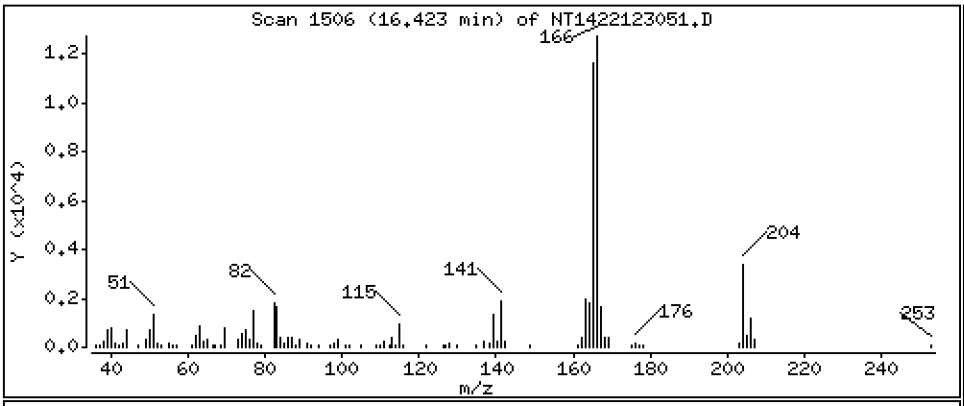
Operator: VTS

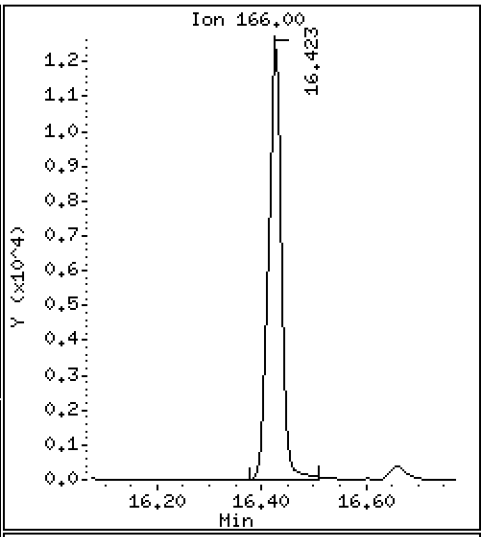
Column phase: ZB-5msi

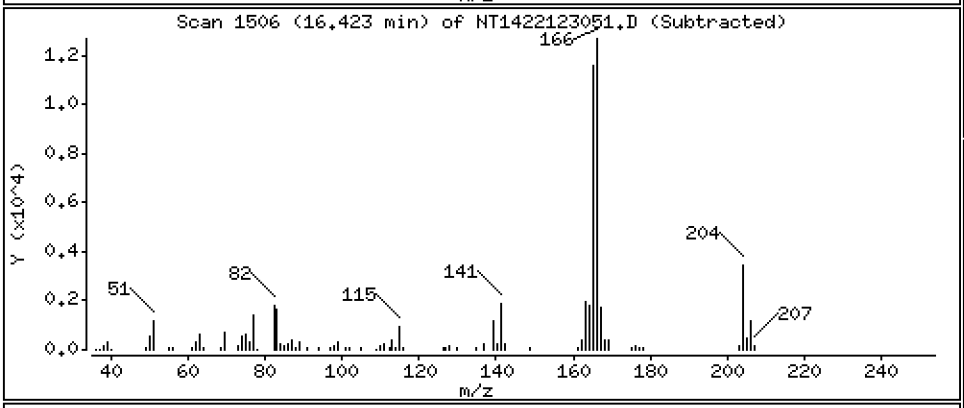
Column diameter: 0.25

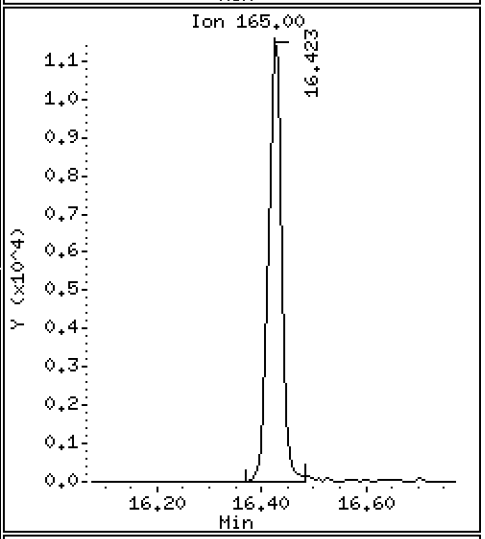
49 Fluorene

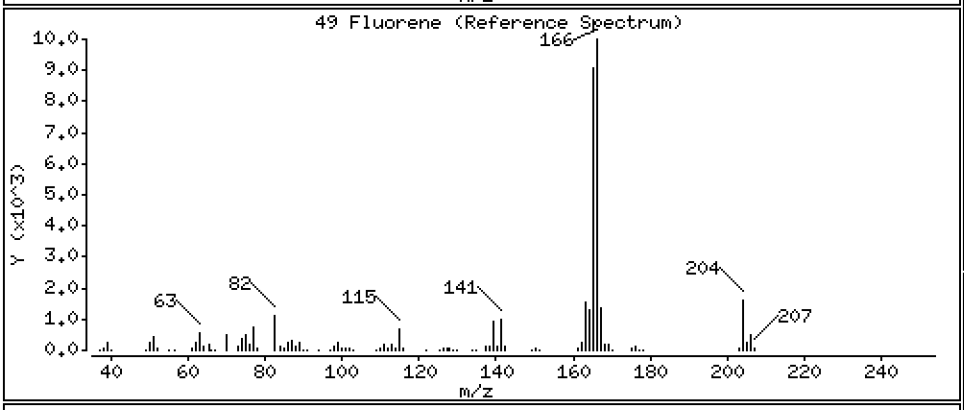
Concentration: 0.2274 ug/mL

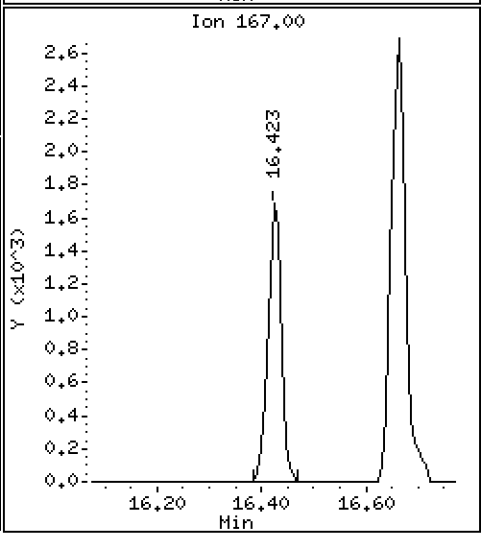


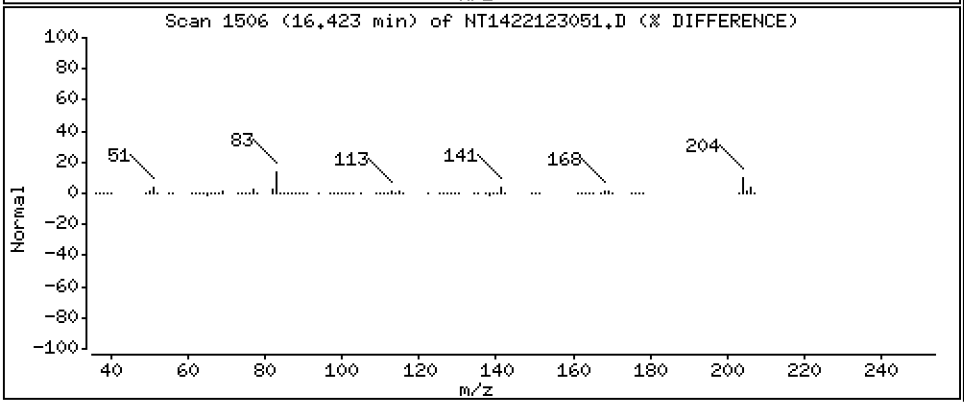












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

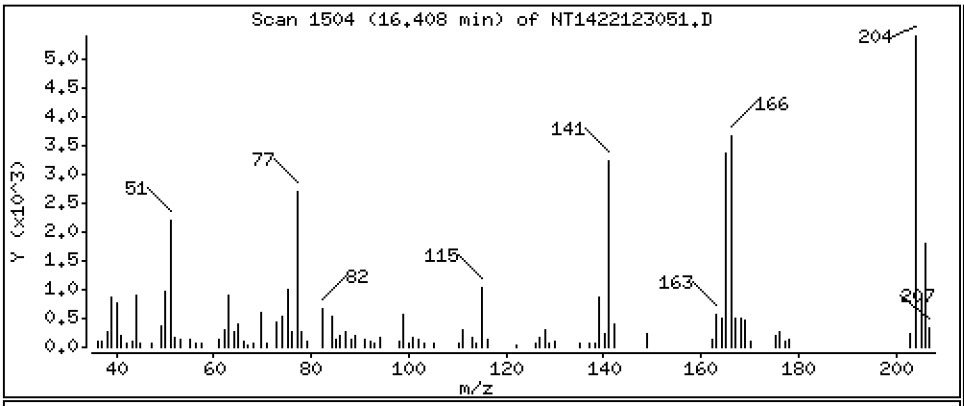
Operator: VTS

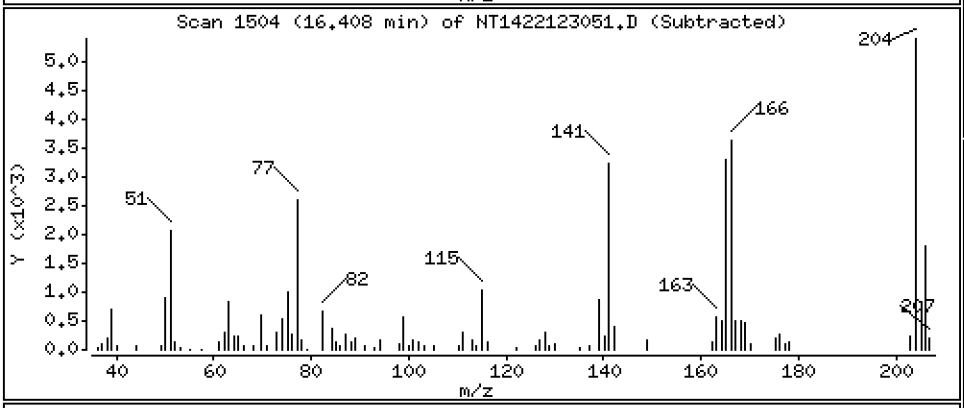
Column phase: ZB-5msi

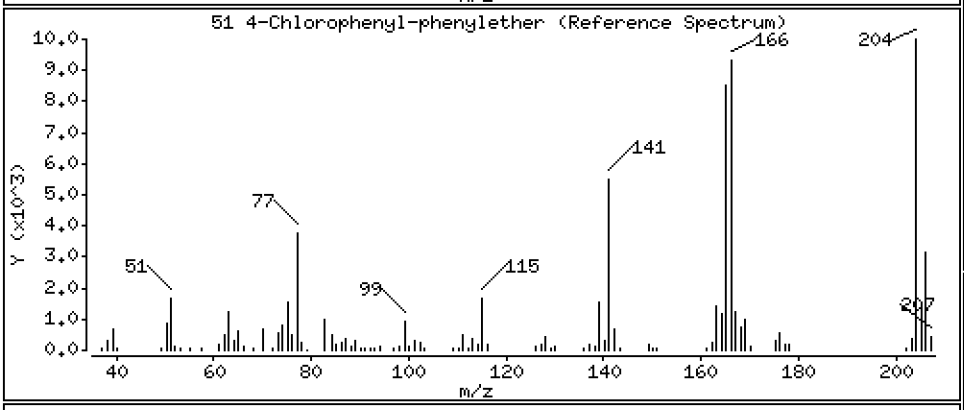
Column diameter: 0.25

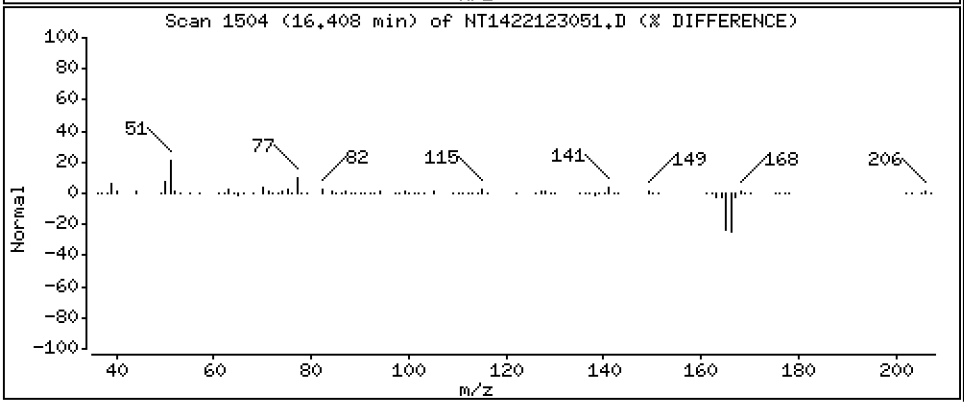
51 4-Chlorophenyl-phenylether

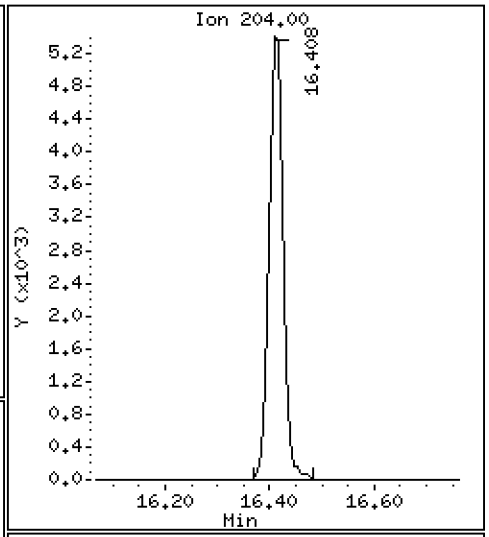
Concentration: 0.2138 ug/mL

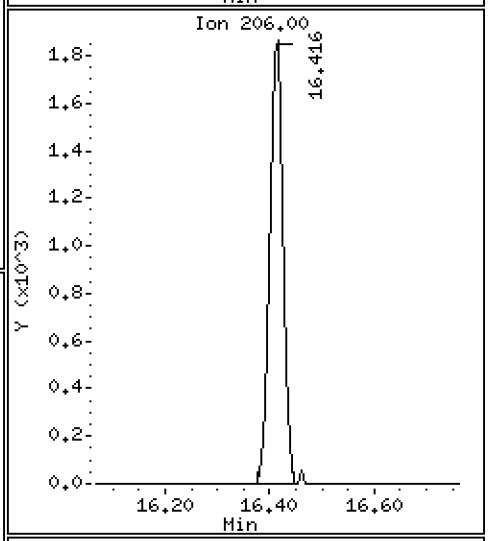


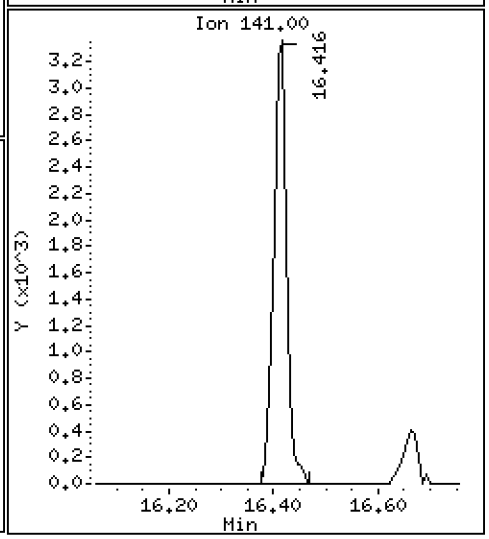












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

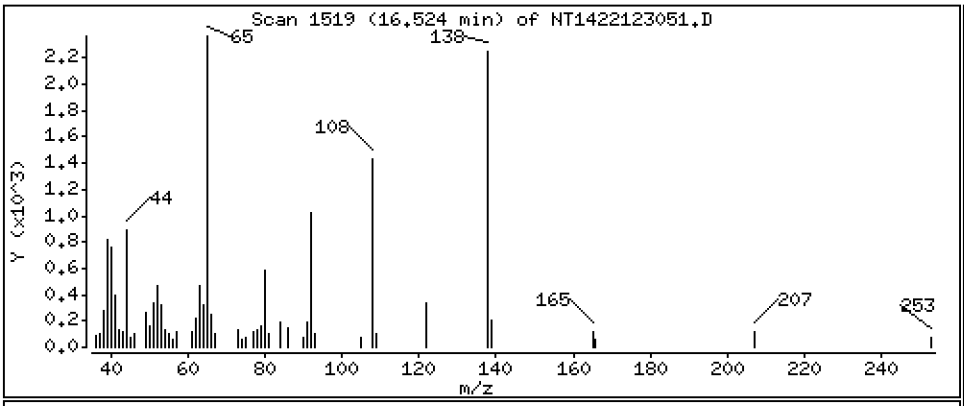
Operator: VTS

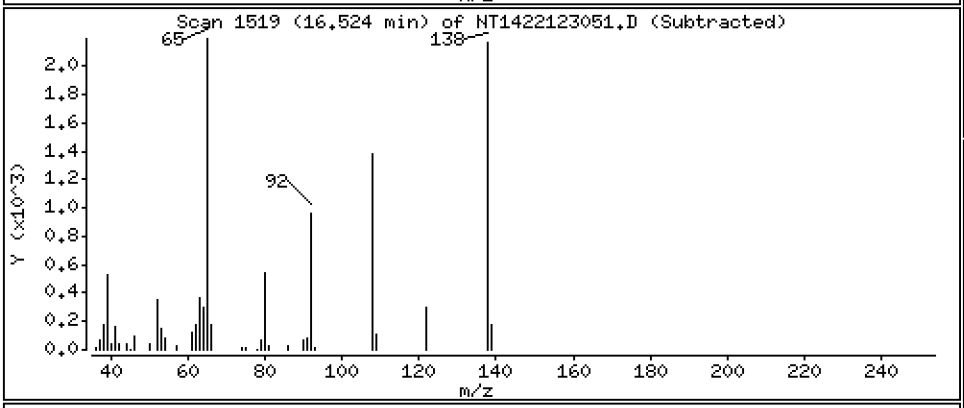
Column phase: ZB-5msi

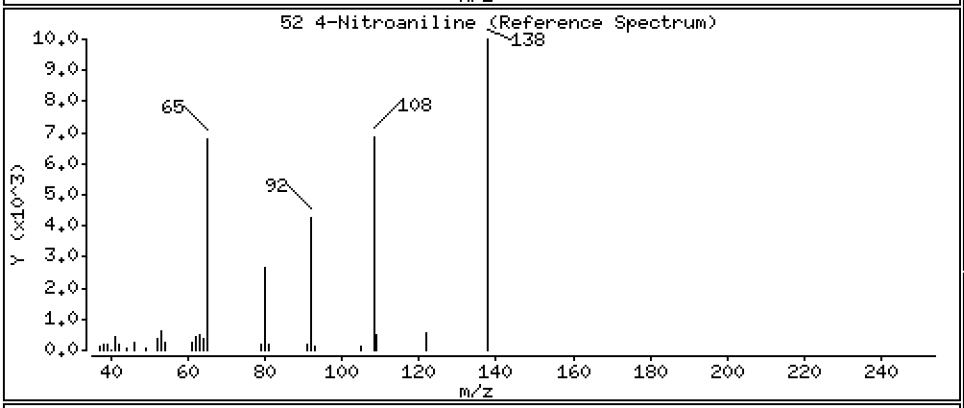
Column diameter: 0.25

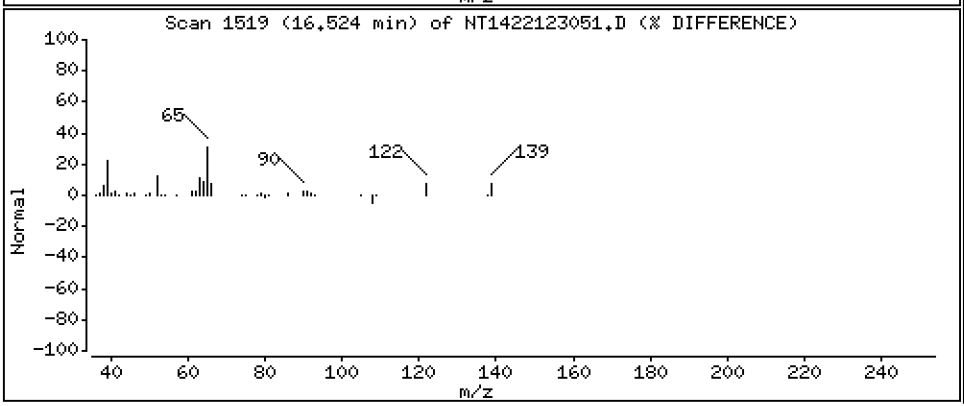
52 4-Nitroaniline

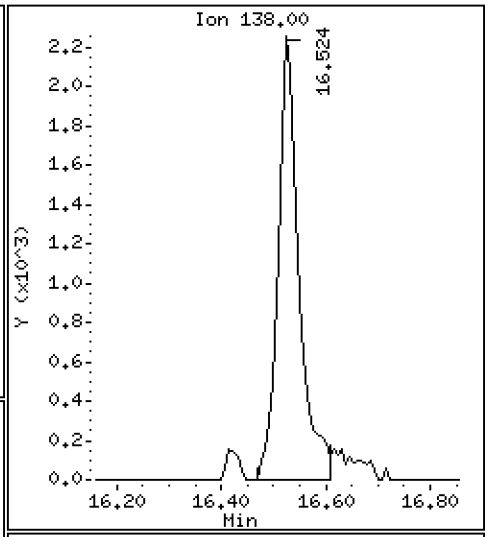
Concentration: 0.3128 ug/mL

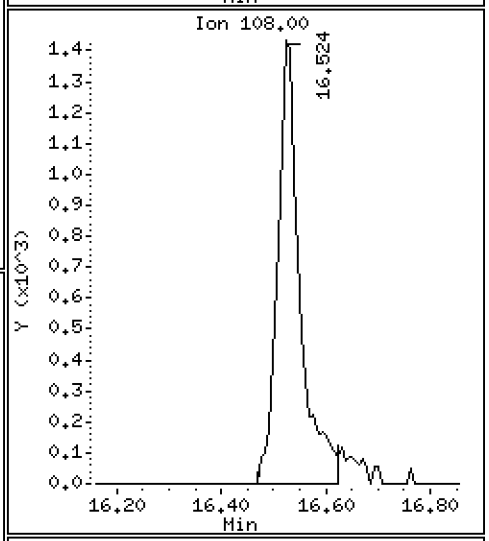


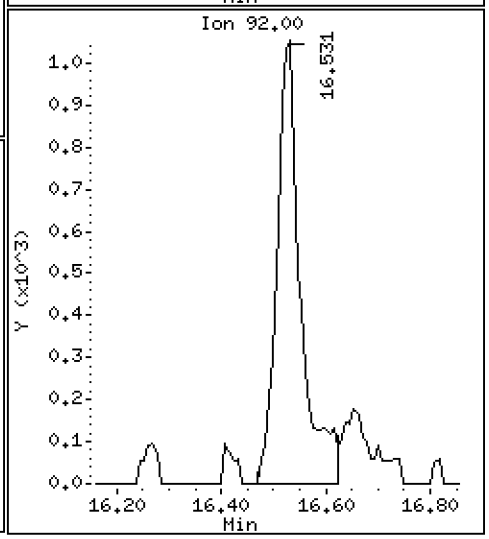












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

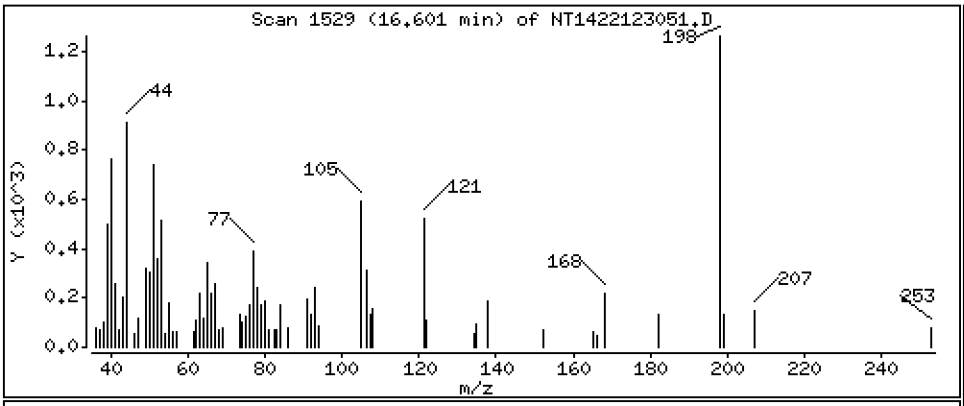
Operator: VTS

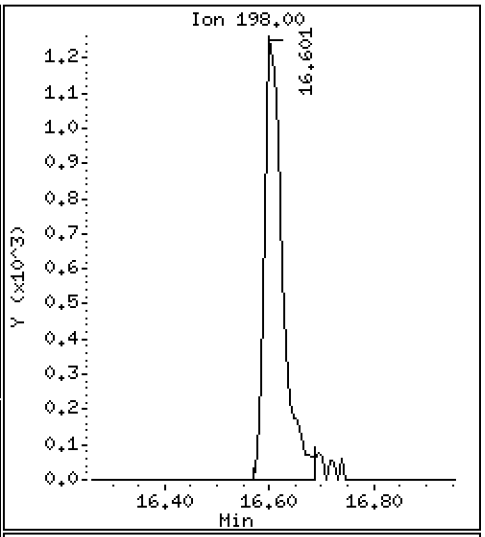
Column phase: ZB-5msi

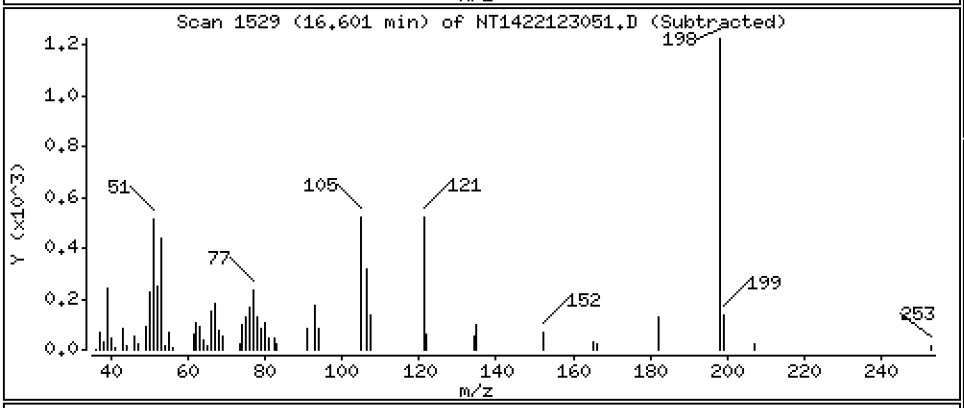
Column diameter: 0.25

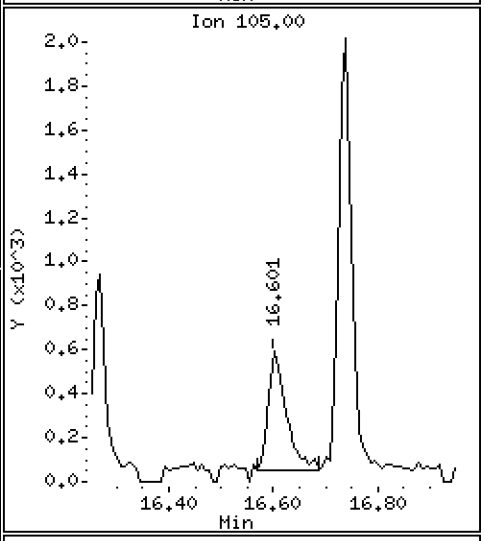
53 4,6-Dinitro-2-methylphenol

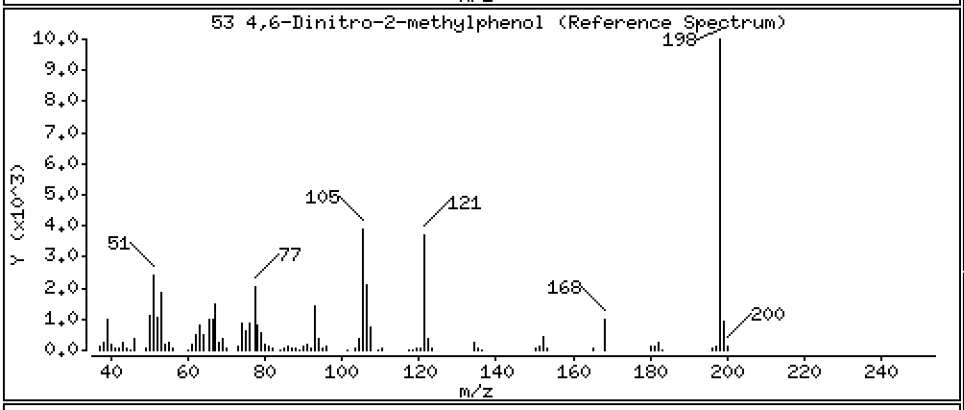
Concentration: 0.2020 ug/mL

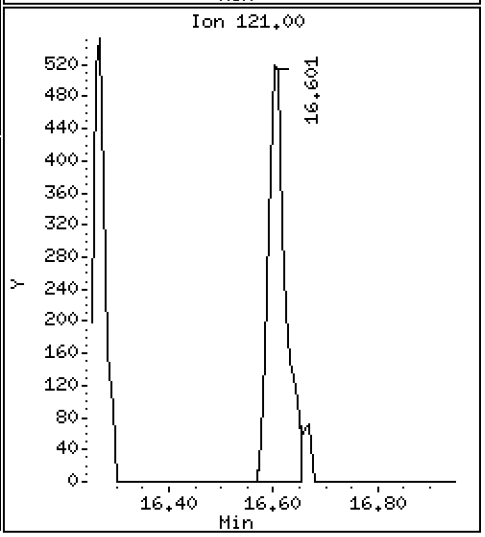


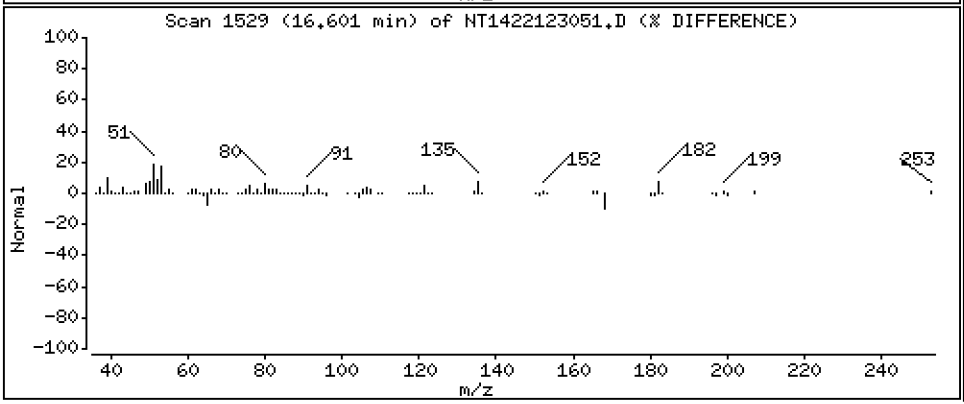












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

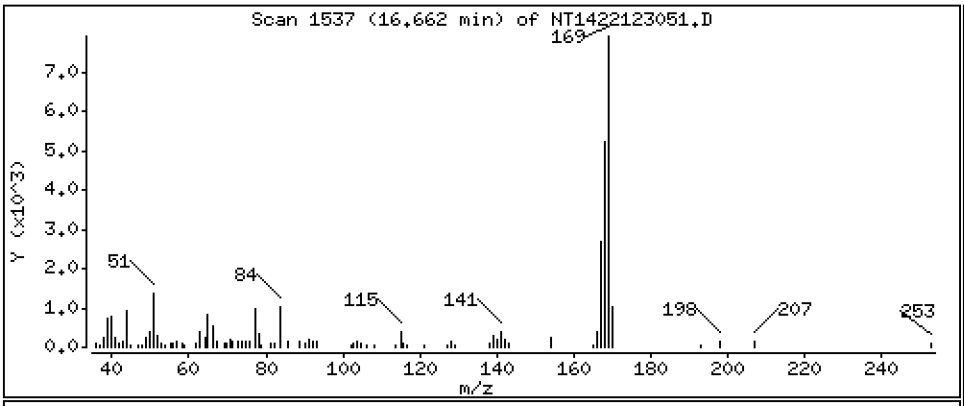
Operator: VTS

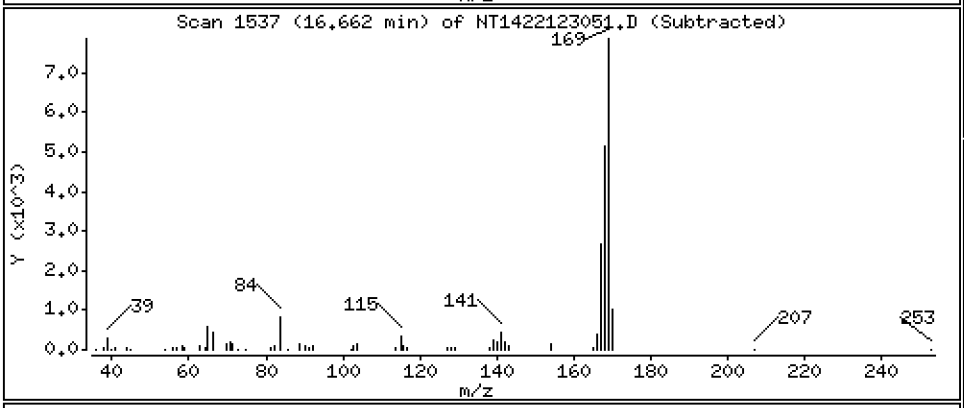
Column phase: ZB-5msi

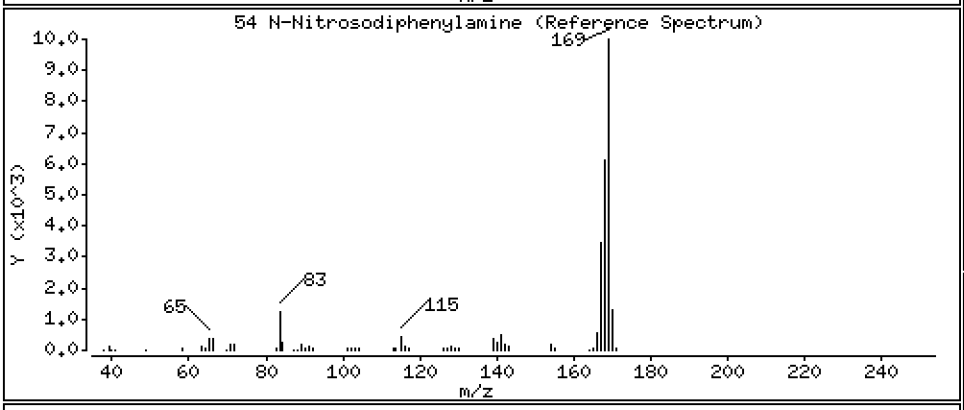
Column diameter: 0.25

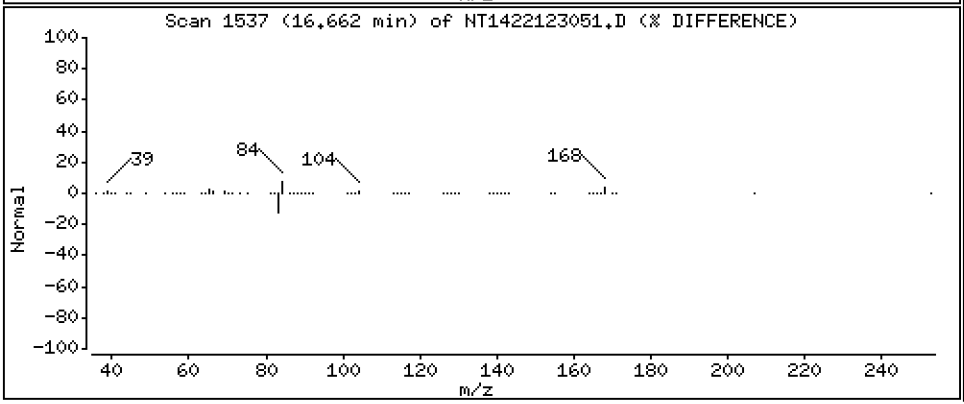
54 N-Nitrosodiphenylamine

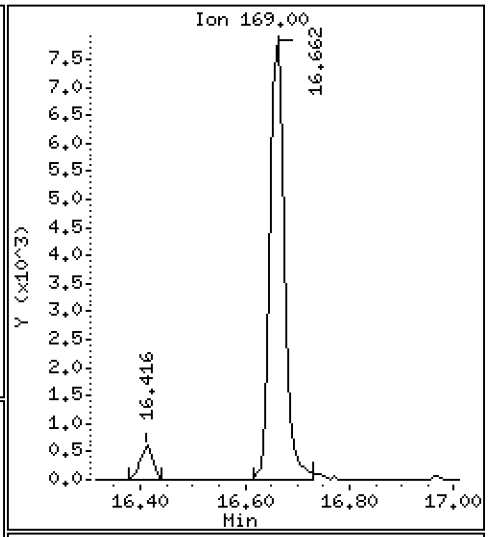
Concentration: 0.2422 ug/mL

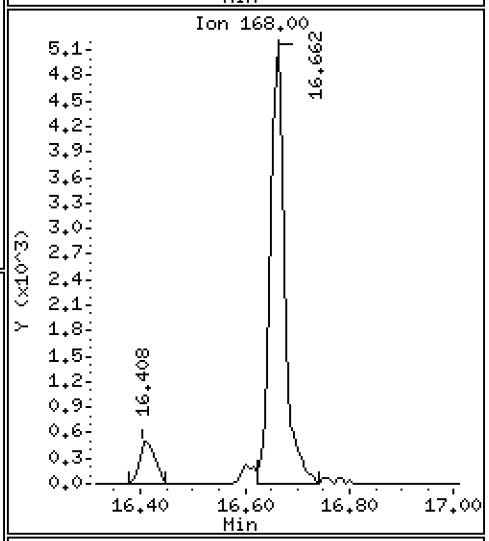


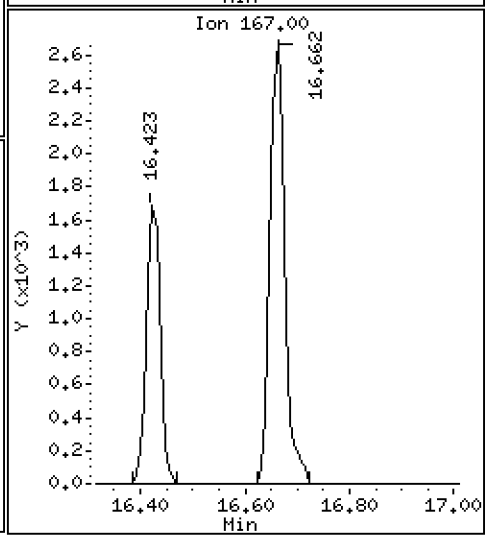












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

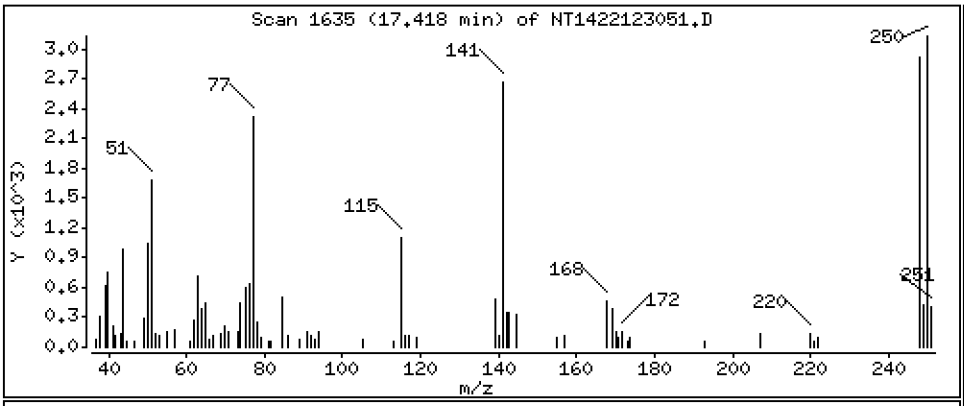
Operator: VTS

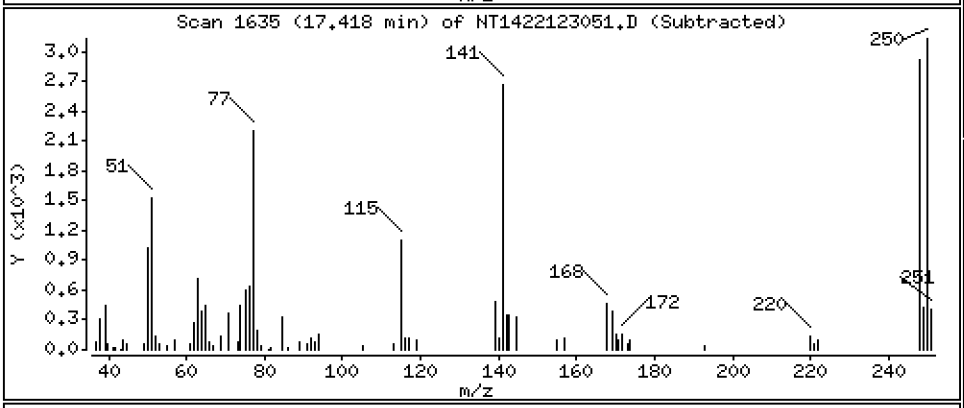
Column phase: ZB-5msi

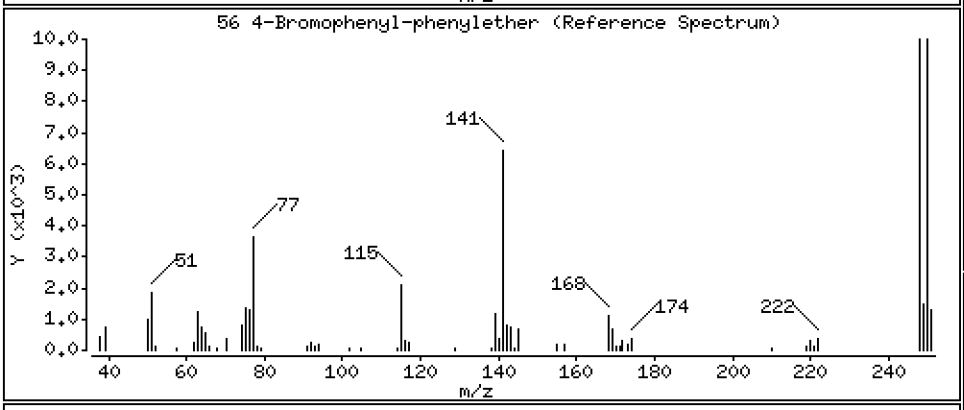
Column diameter: 0.25

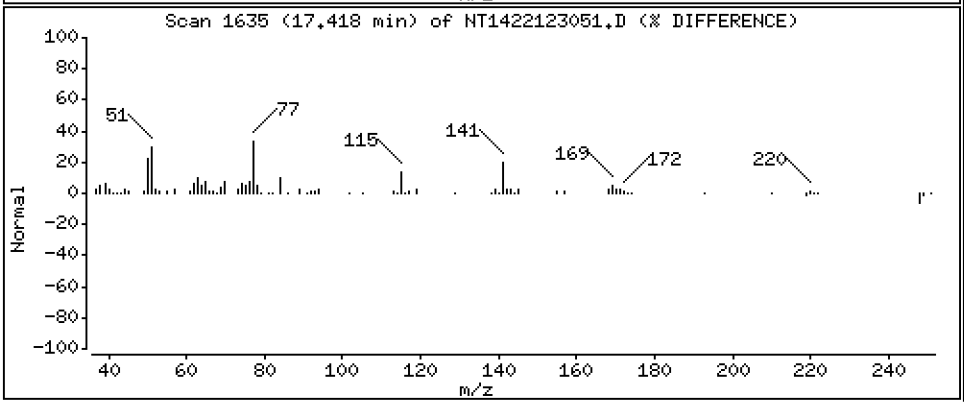
56 4-Bromophenyl-phenylether

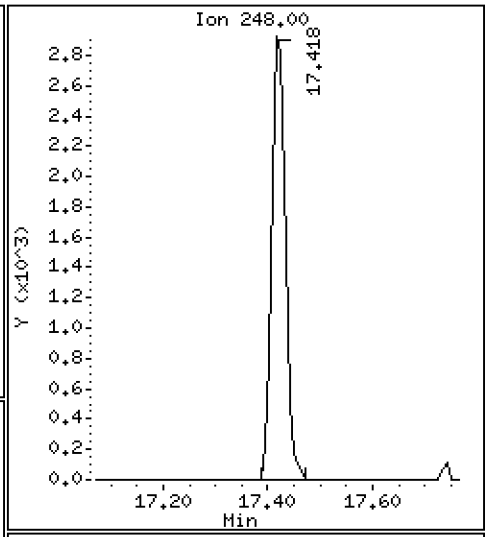
Concentration: 0.2274 ug/mL

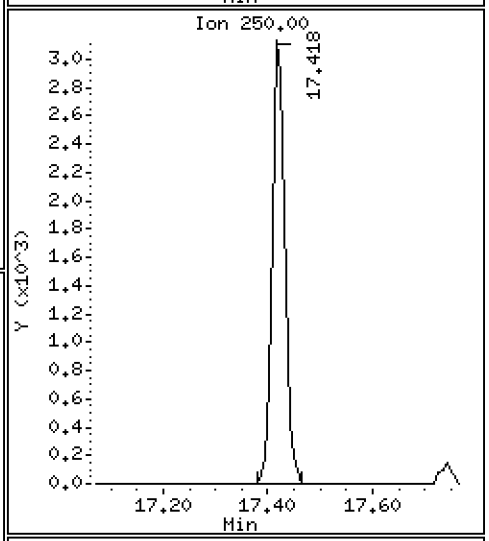


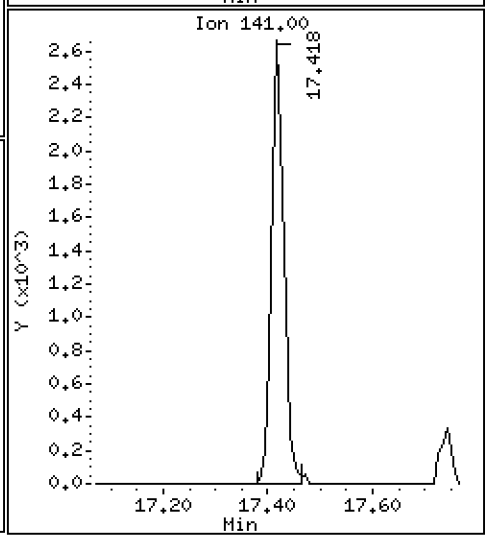












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

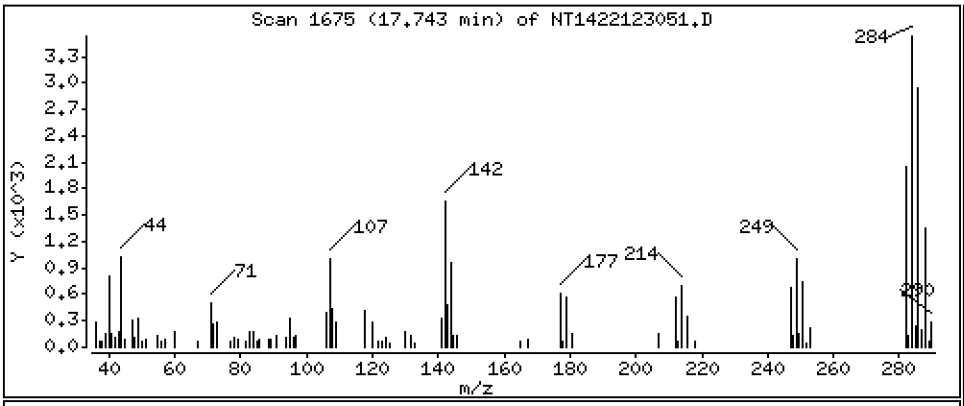
Operator: VTS

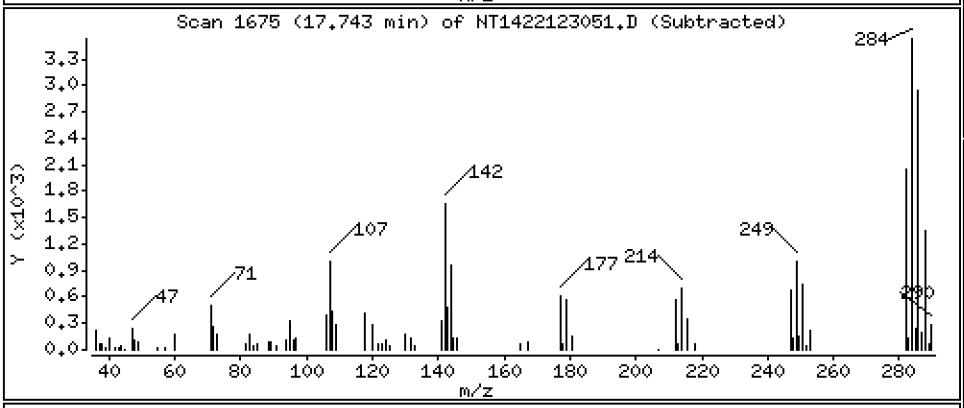
Column phase: ZB-5msi

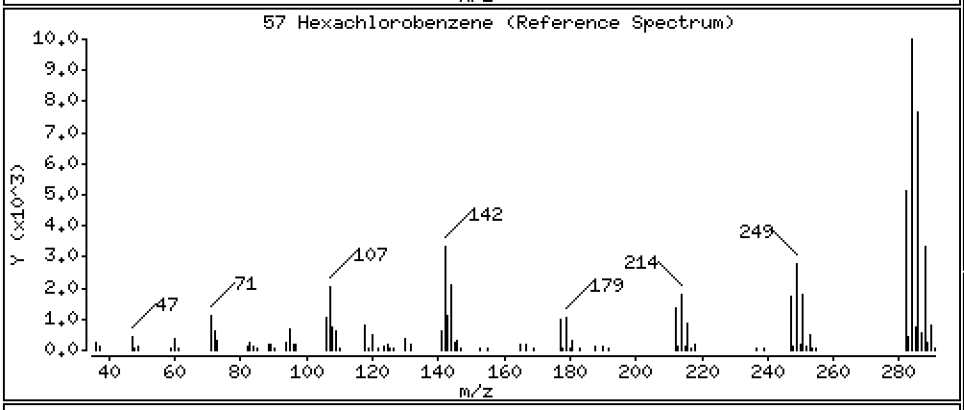
Column diameter: 0.25

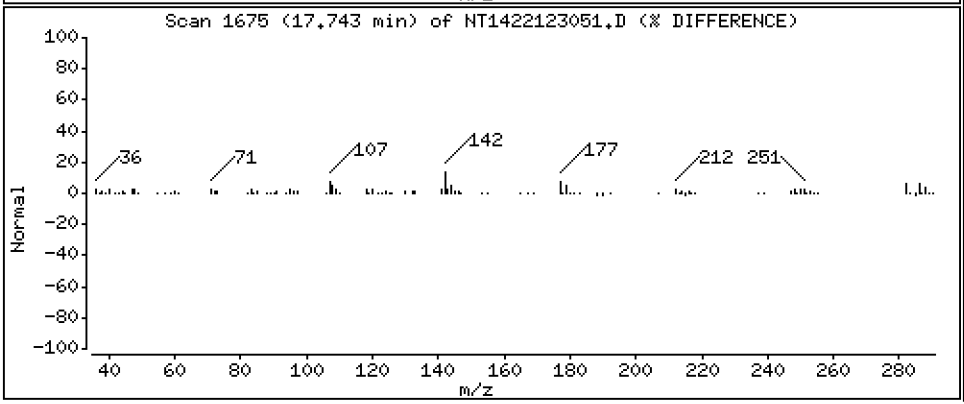
57 Hexachlorobenzene

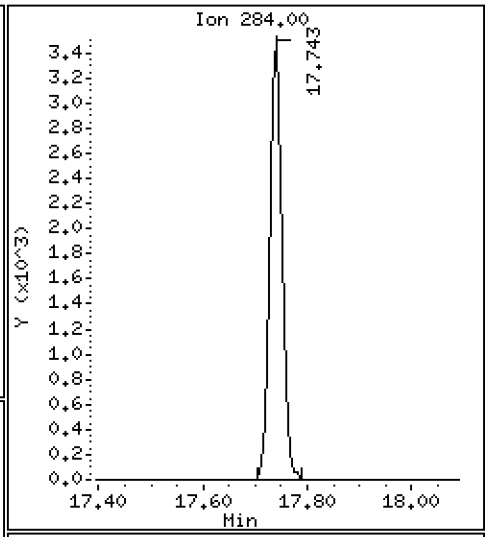
Concentration: 0.2291 ug/mL

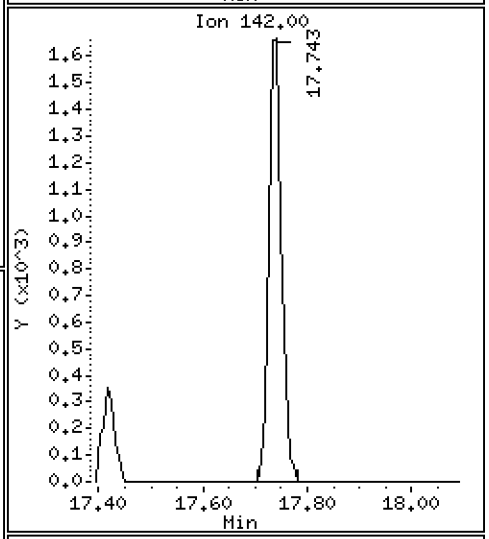


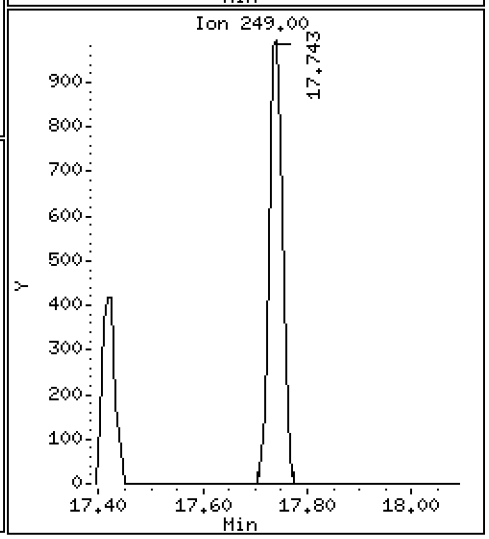












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

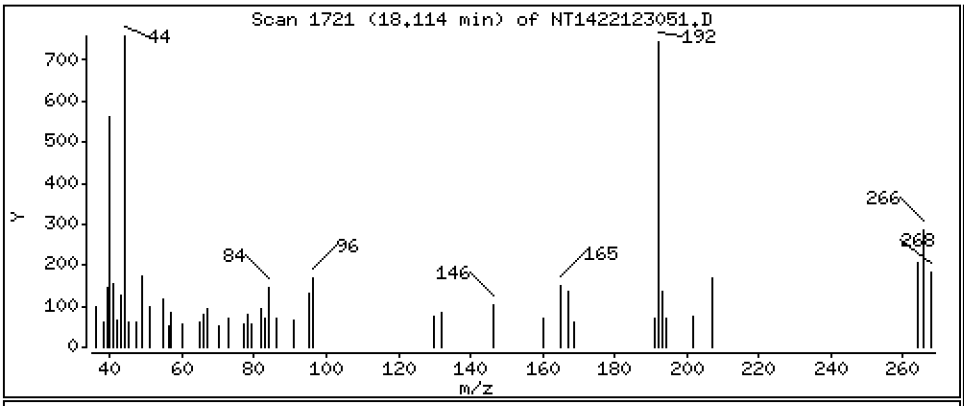
Operator: VTS

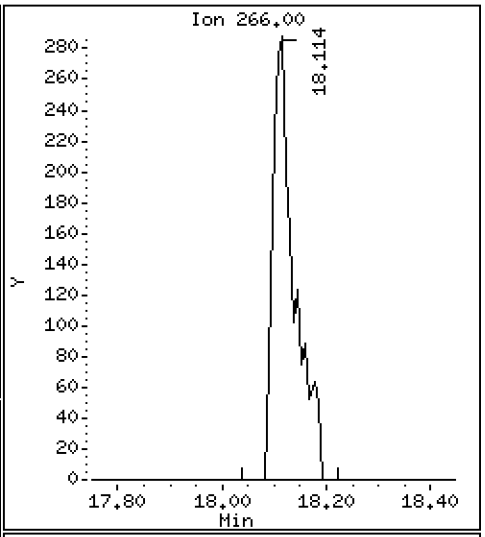
Column phase: ZB-5msi

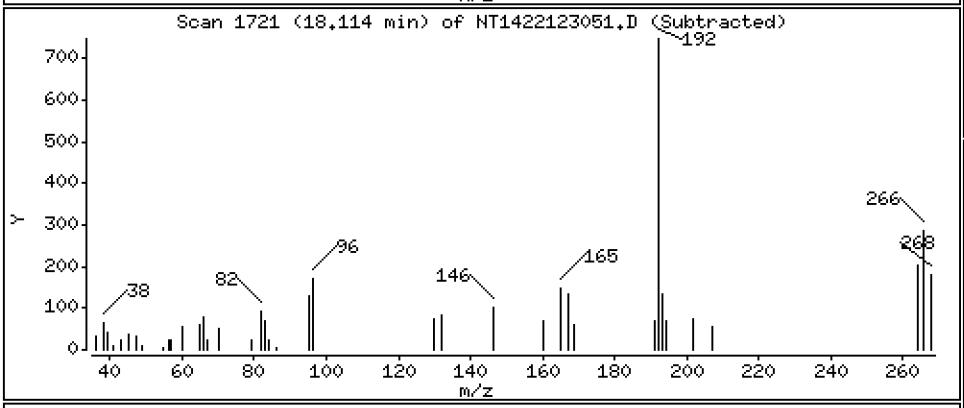
Column diameter: 0.25

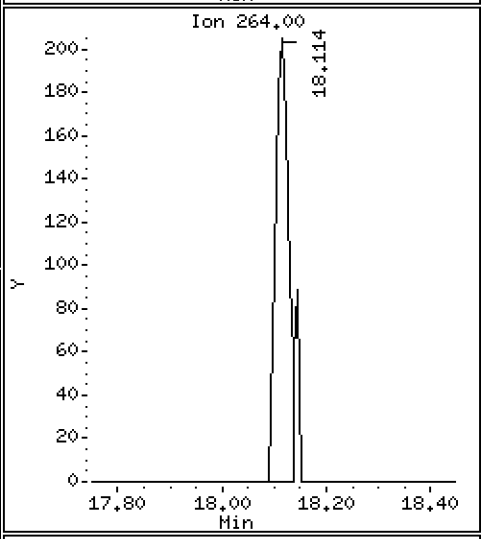
58 Pentachlorophenol

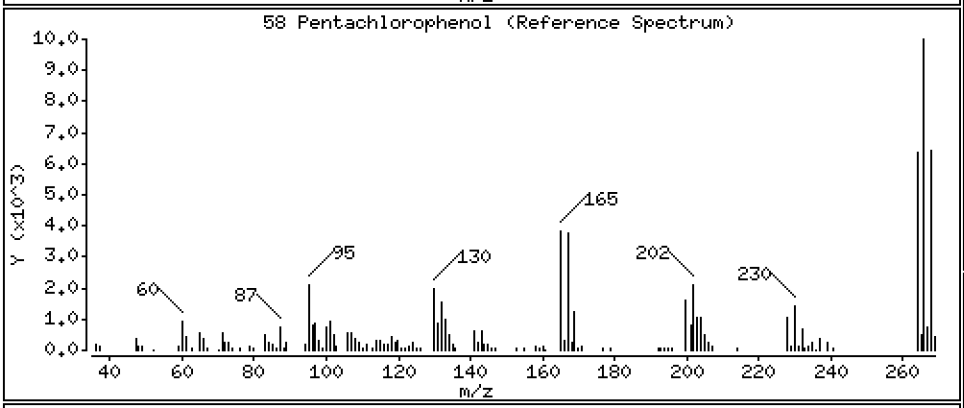
Concentration: 0.07669 ug/mL

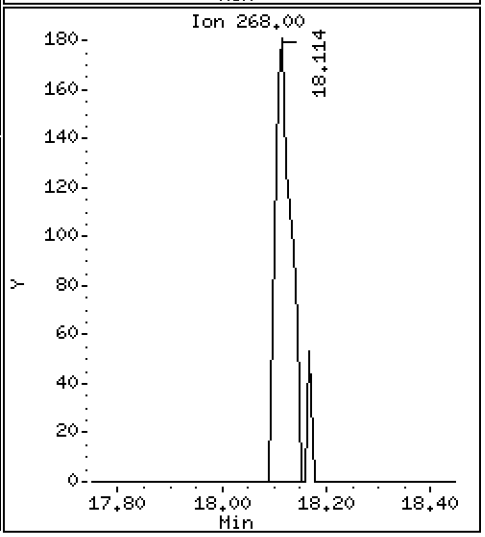


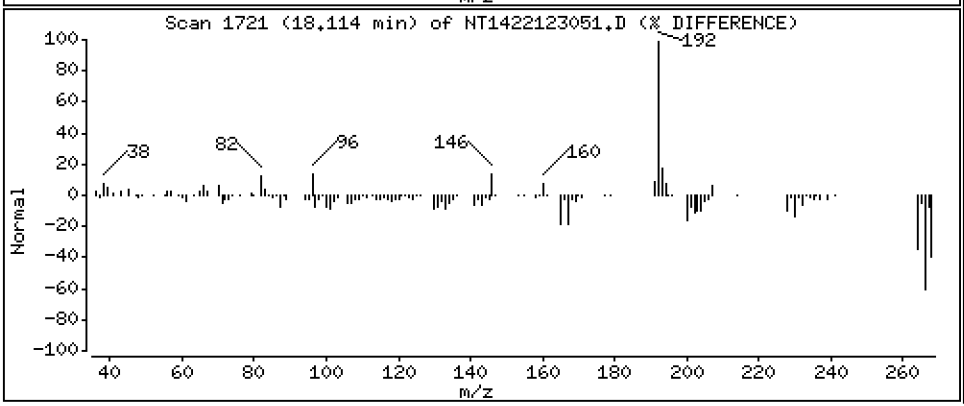












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

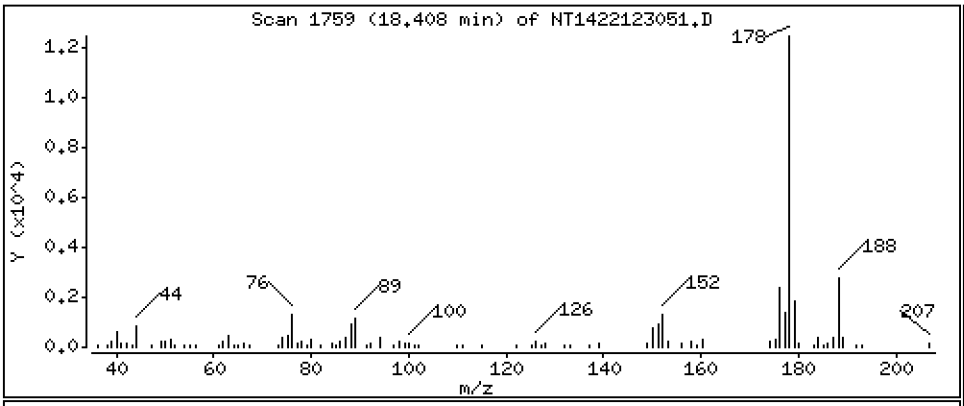
Operator: VTS

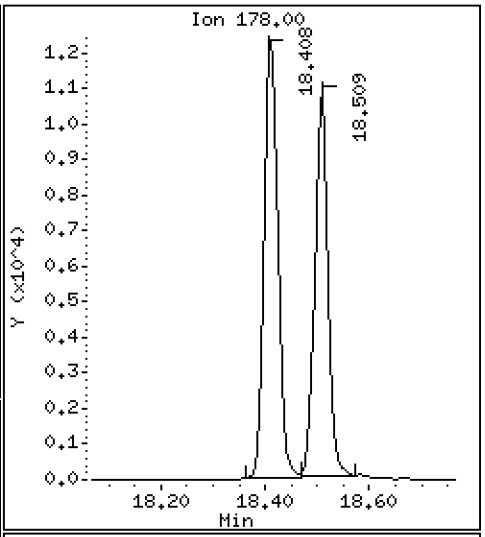
Column phase: ZB-5msi

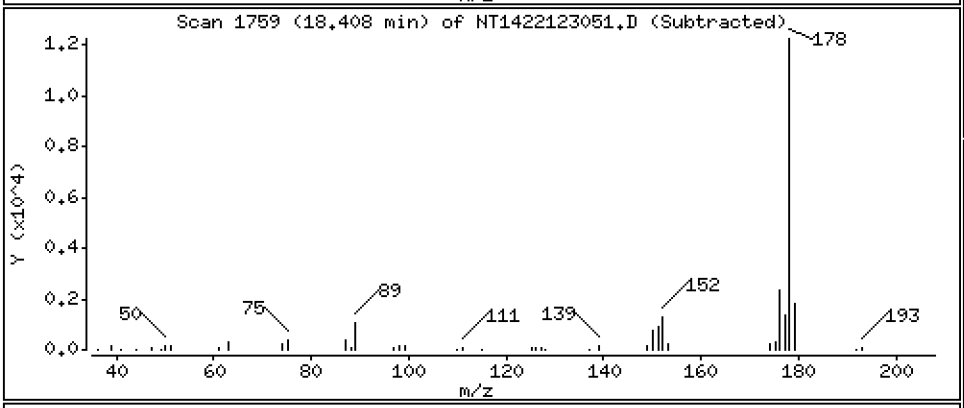
Column diameter: 0.25

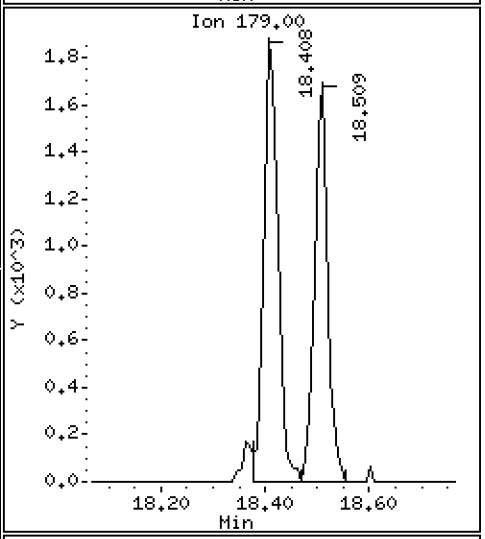
60 Phenanthrene

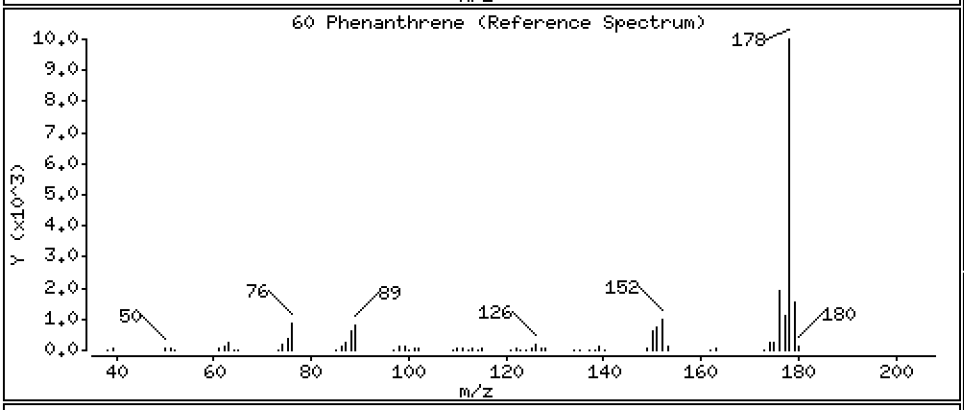
Concentration: 0.2415 ug/mL

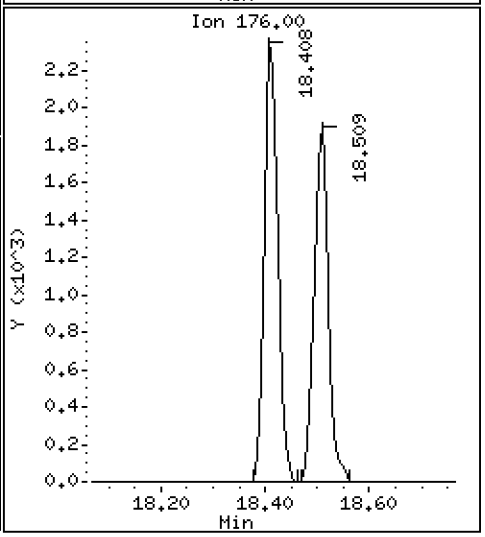


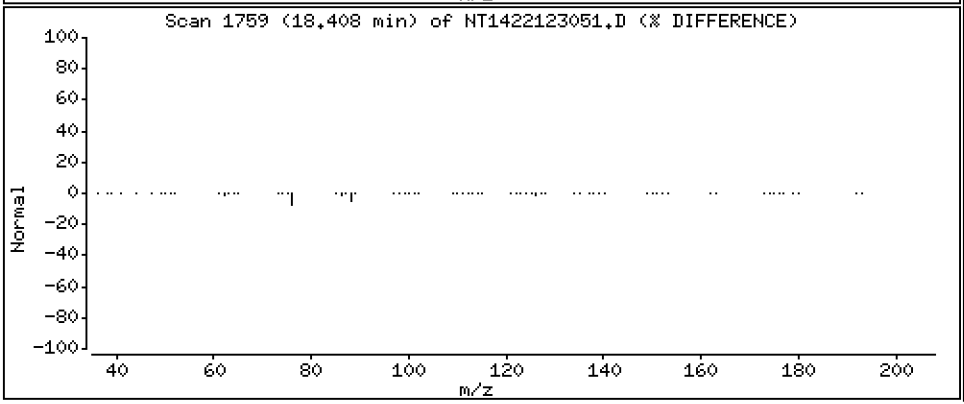












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

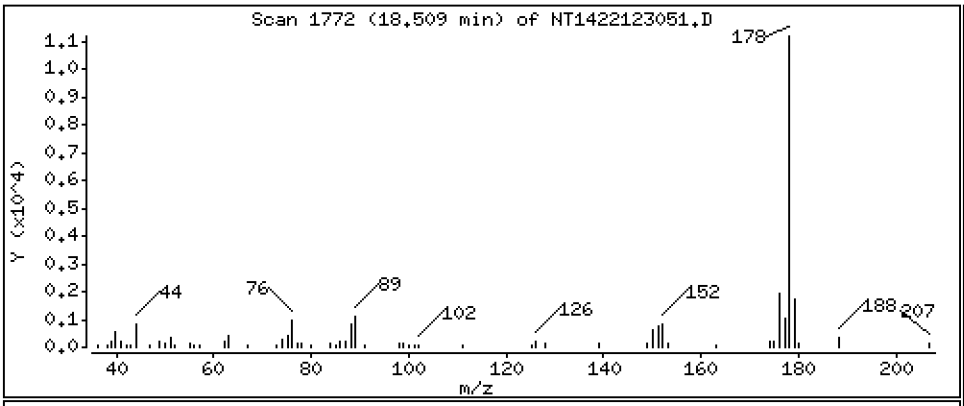
Operator: VTS

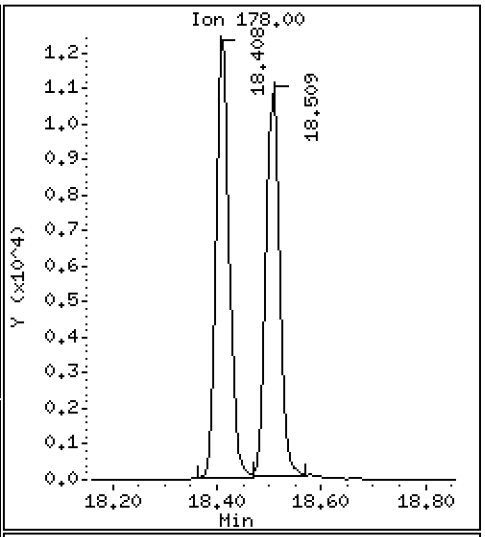
Column phase: ZB-5msi

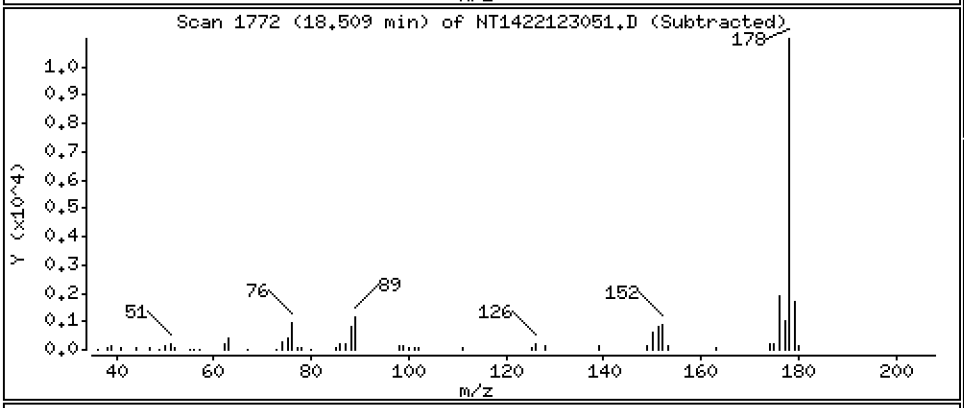
Column diameter: 0.25

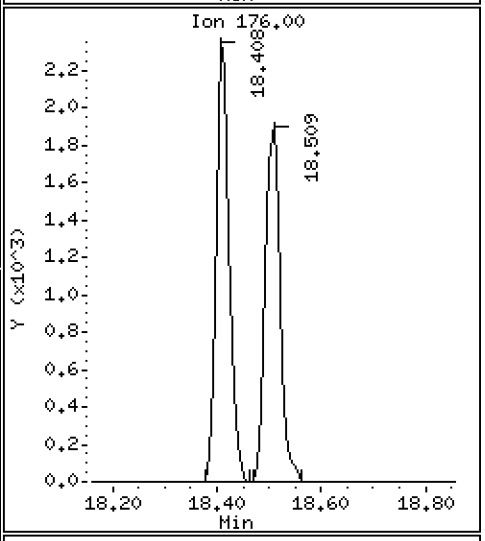
61 Anthracene

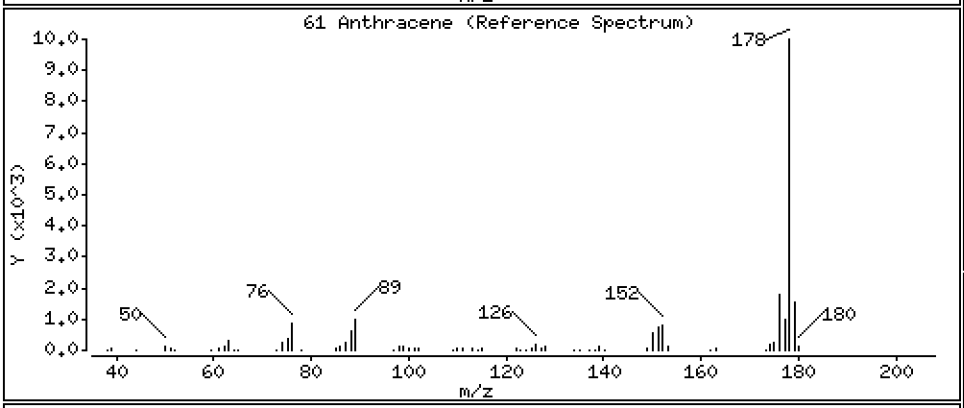
Concentration: 0.2183 ug/mL

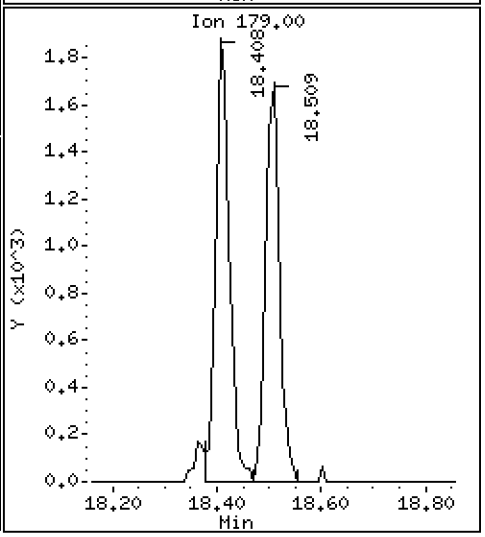


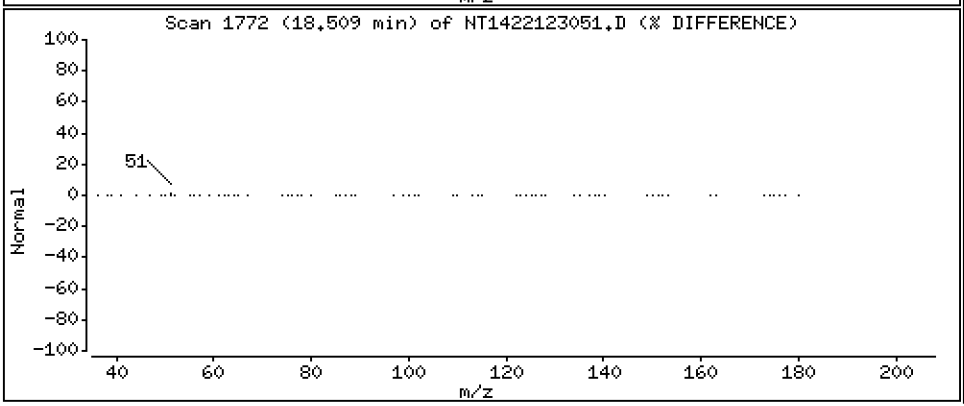












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

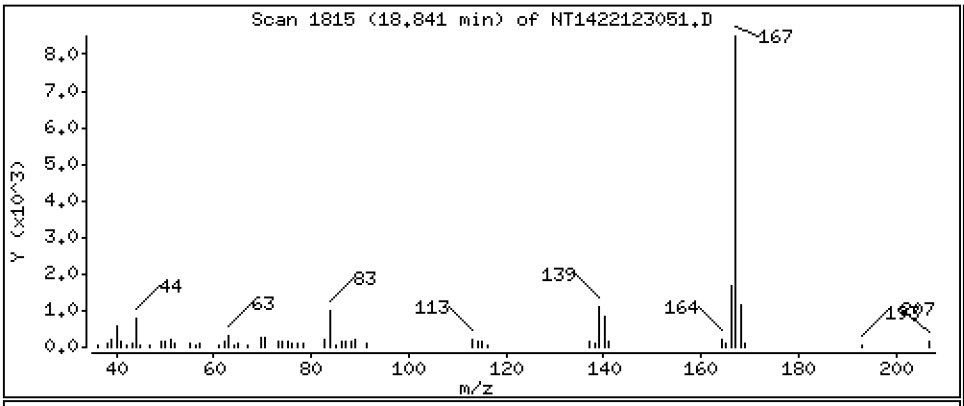
Operator: VTS

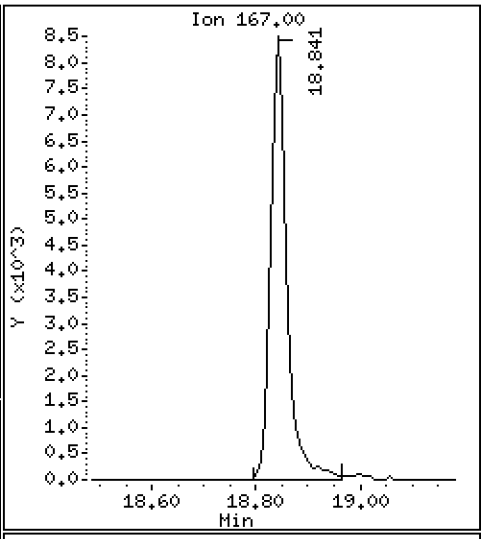
Column phase: ZB-5msi

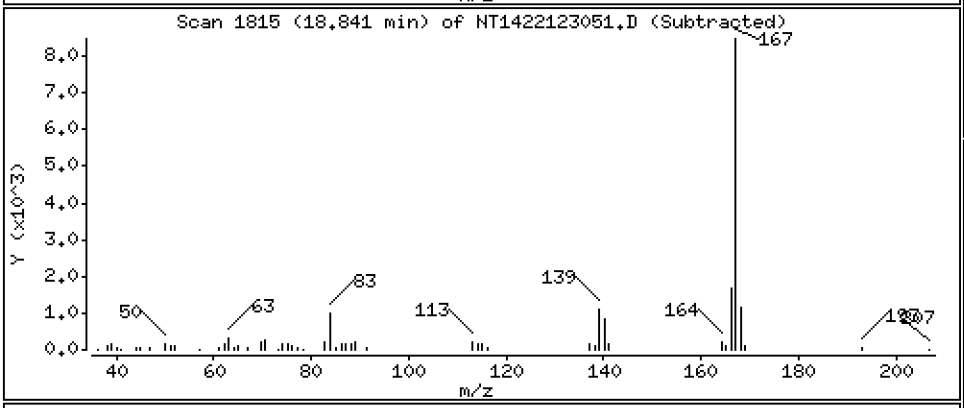
Column diameter: 0.25

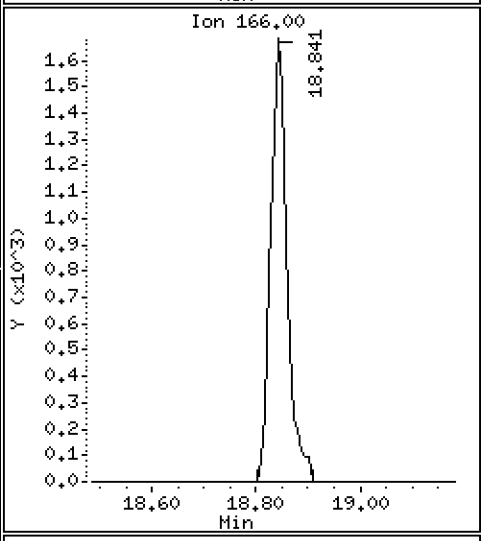
62 Carbazole

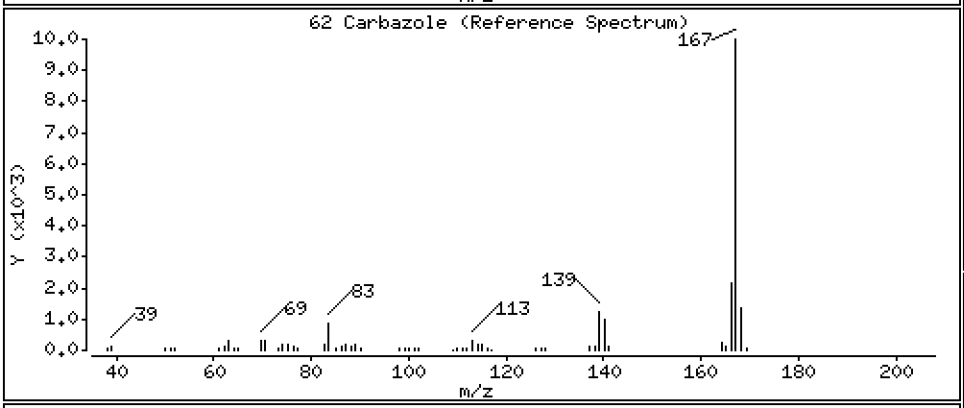
Concentration: 0.2174 ug/mL

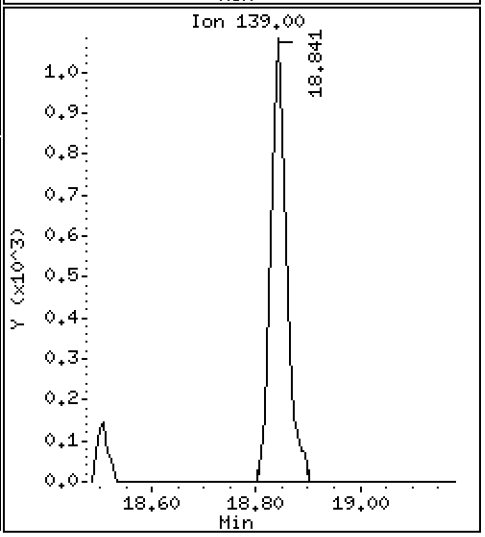


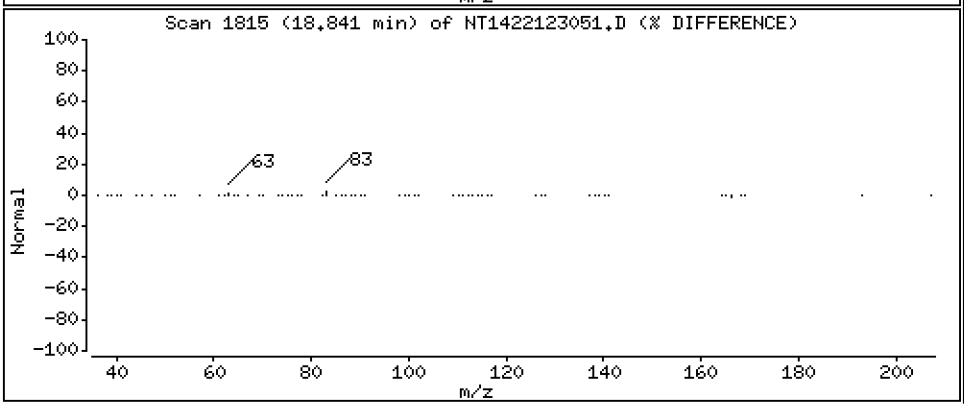












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

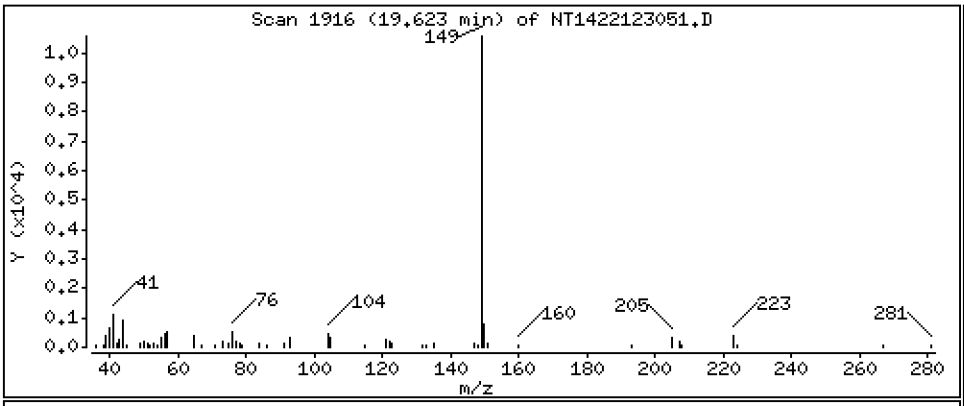
Operator: VTS

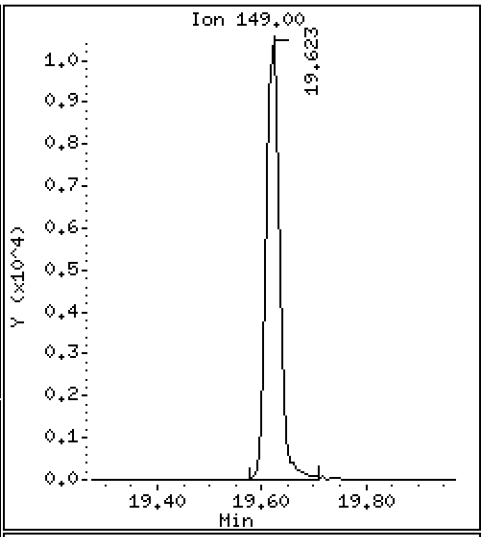
Column phase: ZB-5msi

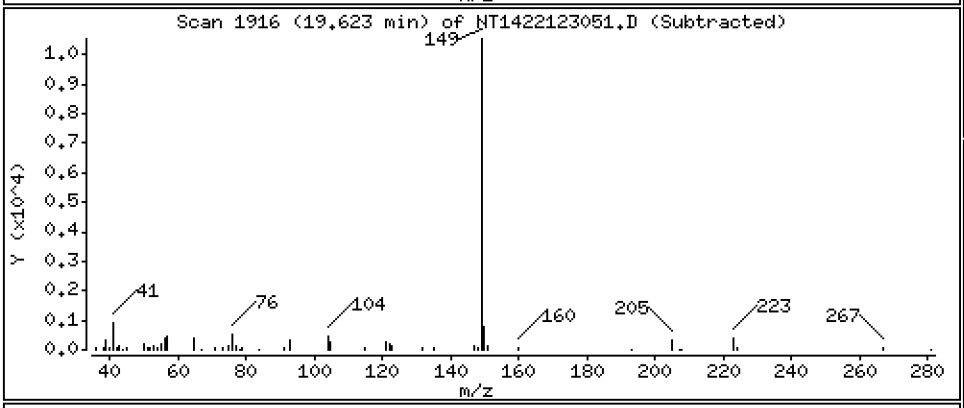
Column diameter: 0.25

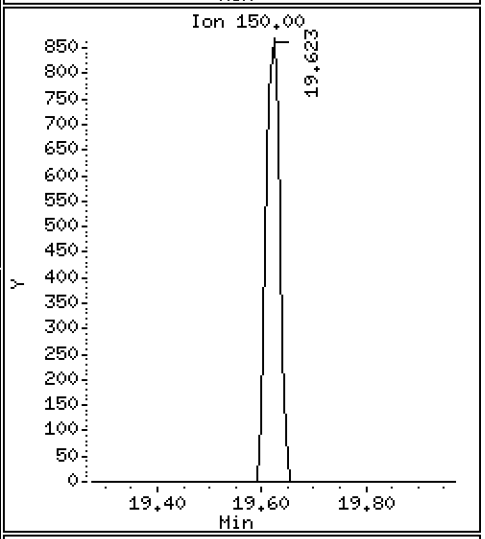
63 Di-n-butylphthalate

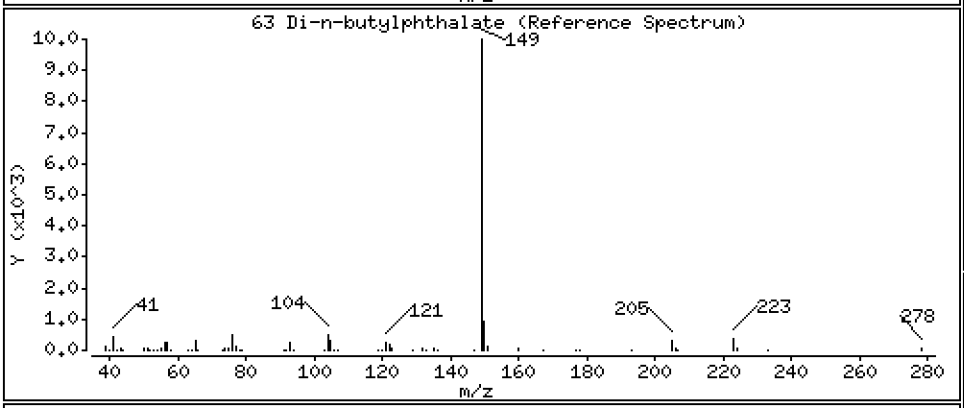
Concentration: 0.1906 ug/mL

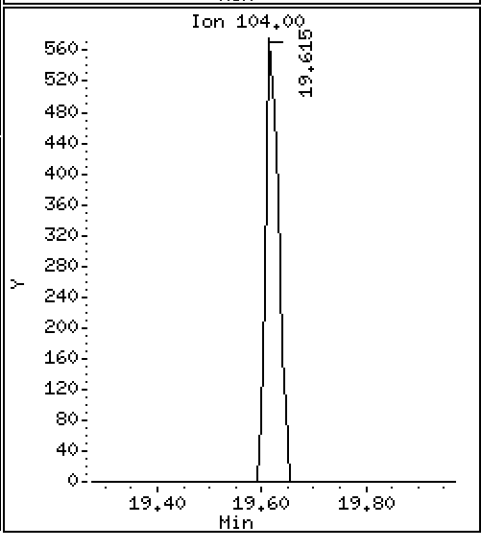


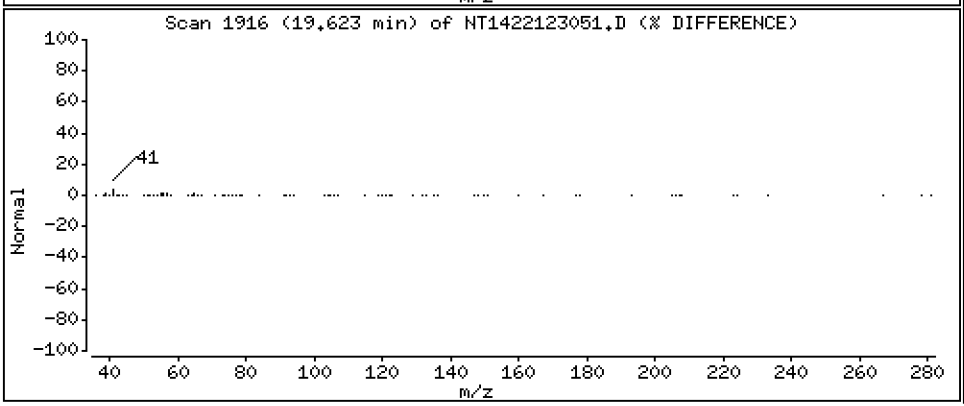












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

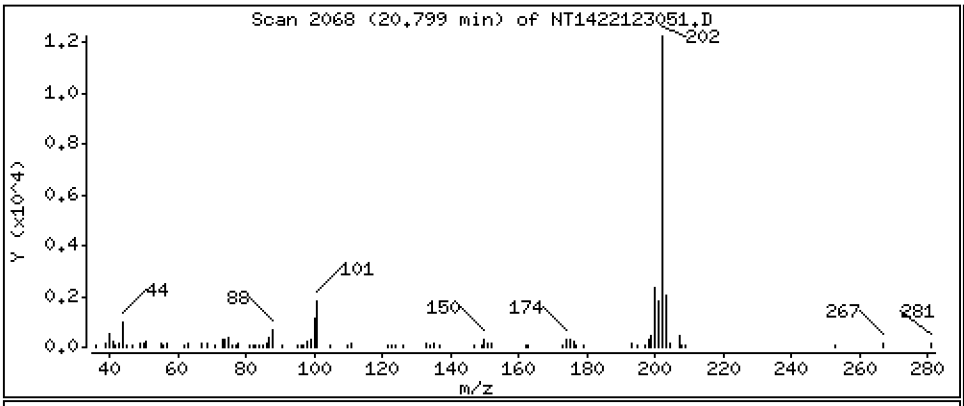
Operator: VTS

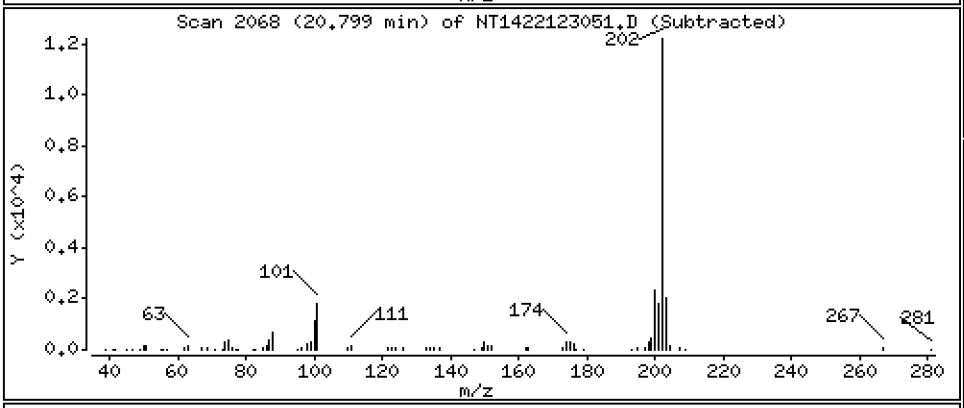
Column phase: ZB-5msi

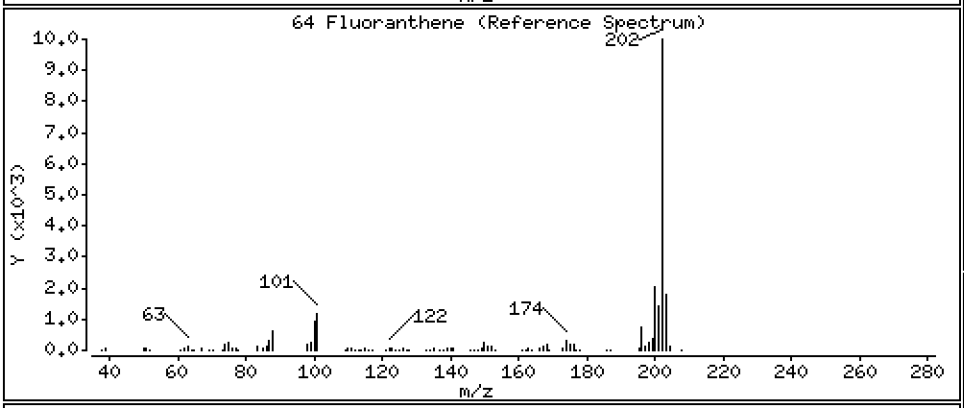
Column diameter: 0.25

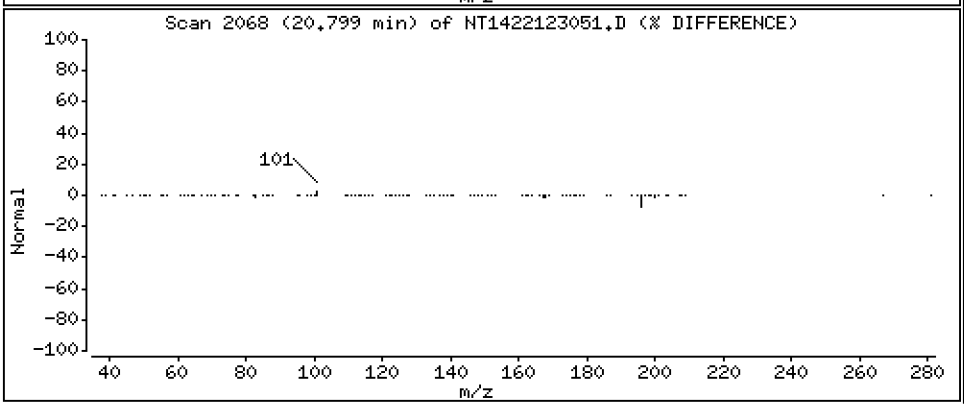
64 Fluoranthene

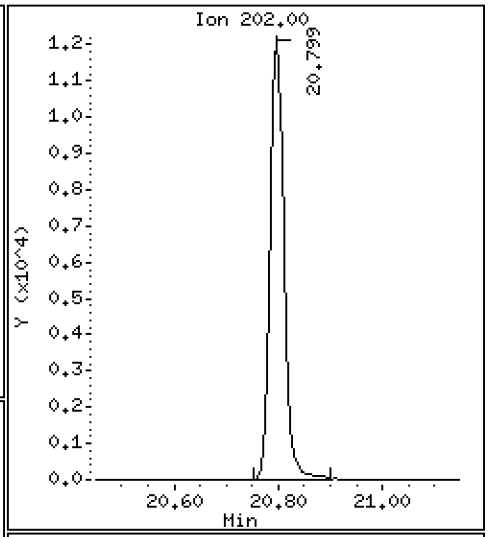
Concentration: 0.2308 ug/mL

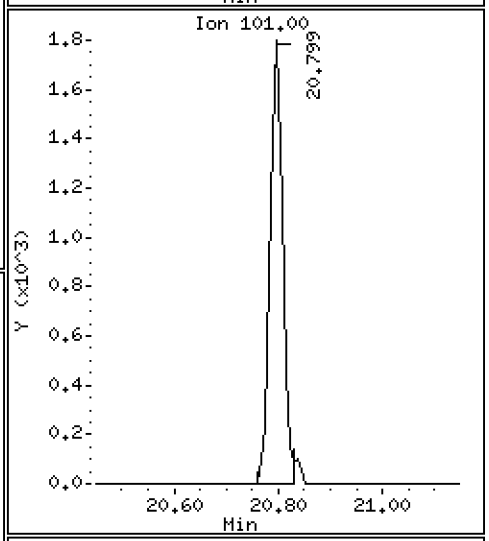


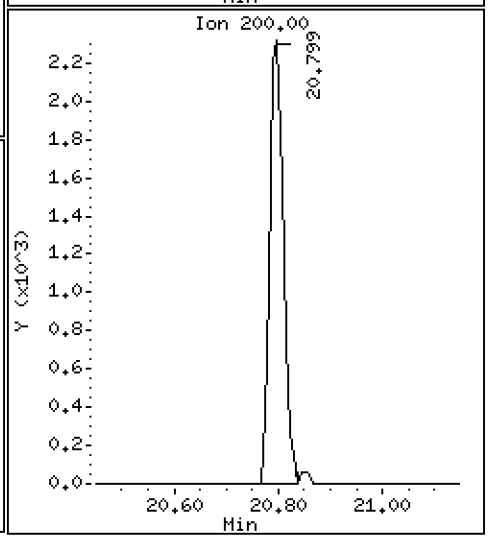












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

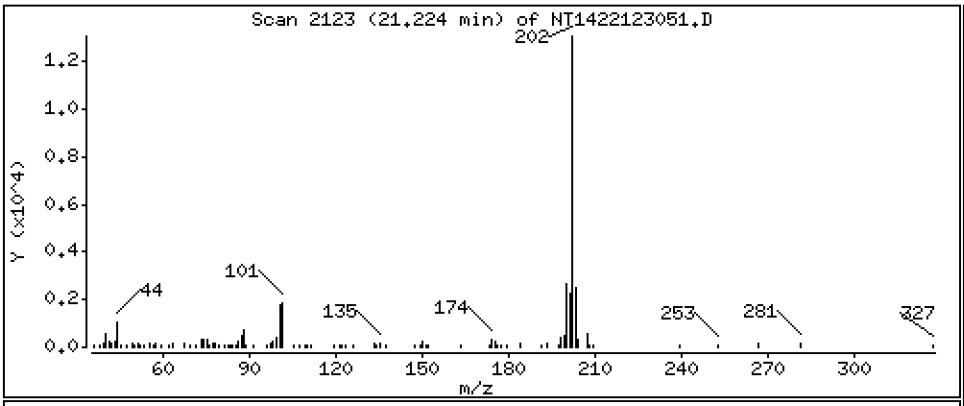
Operator: VTS

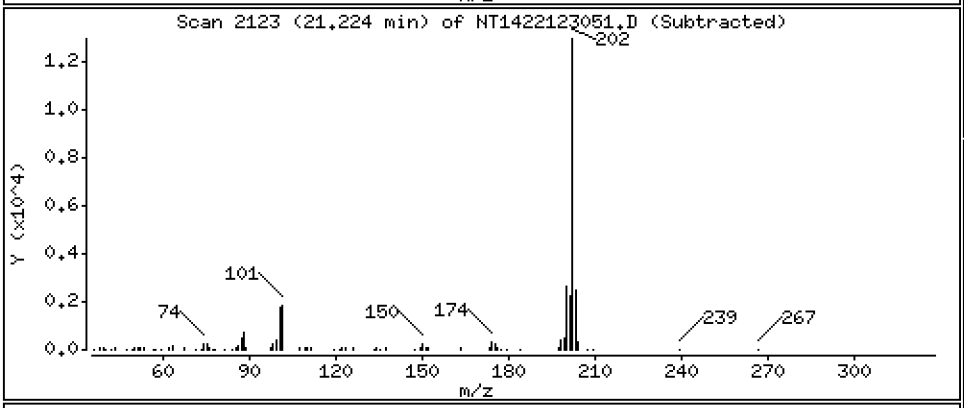
Column phase: ZB-5msi

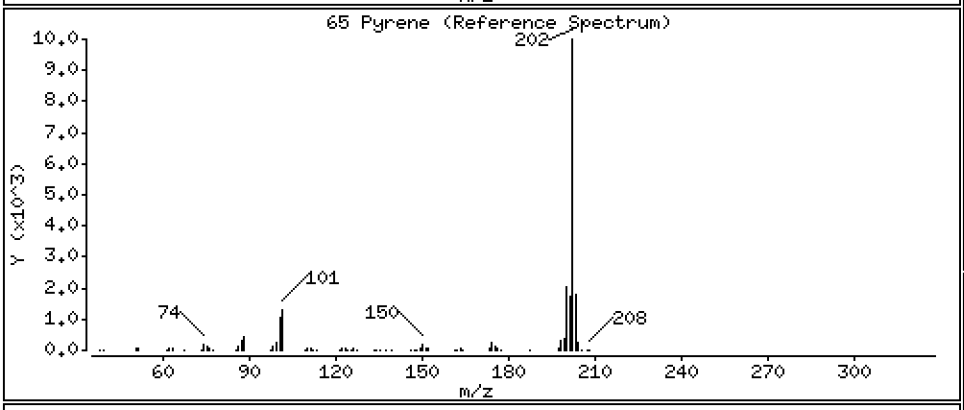
Column diameter: 0.25

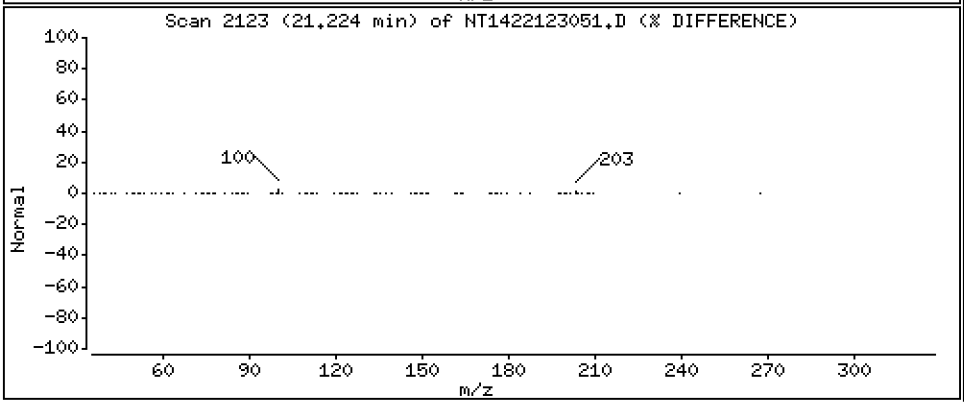
65 Pyrene

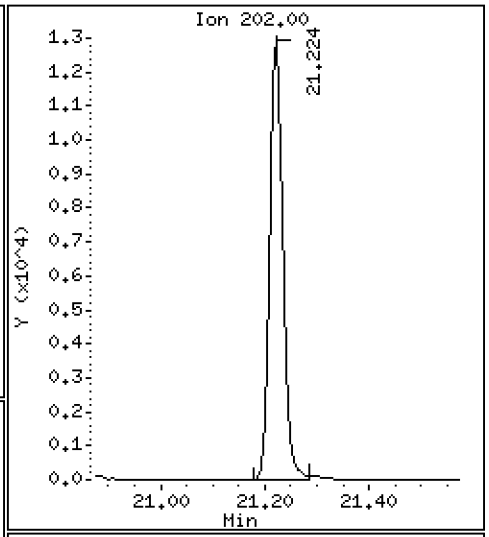
Concentration: 0.2212 ug/mL

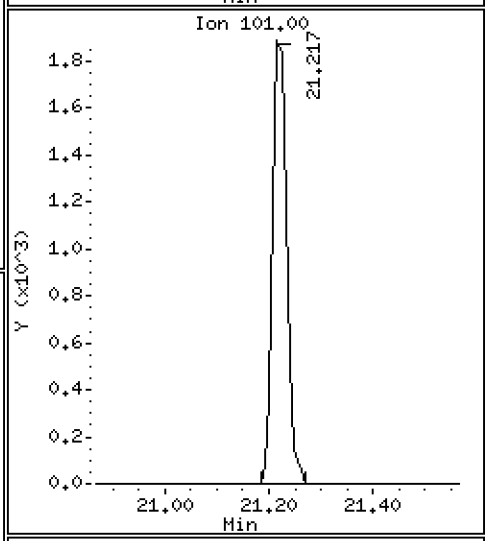


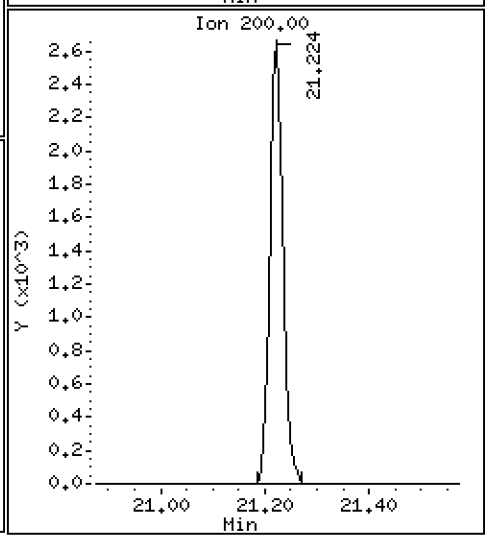












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

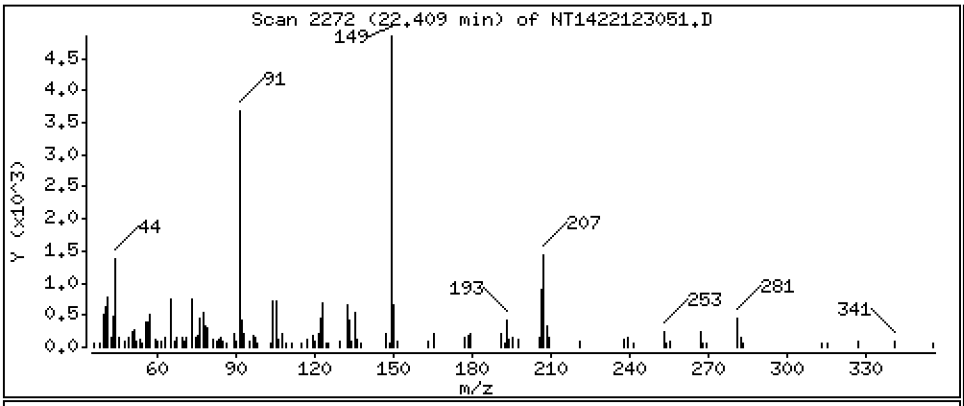
Operator: VTS

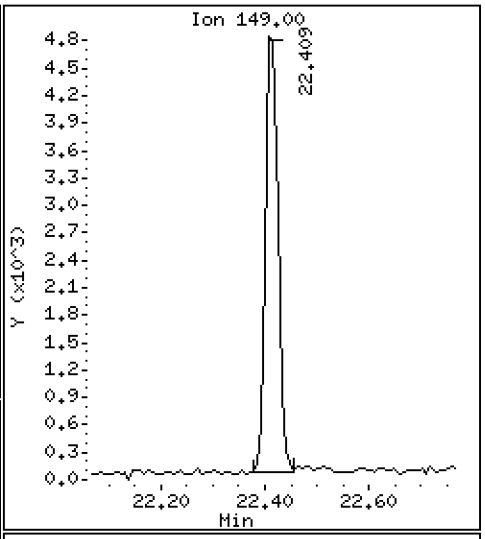
Column phase: ZB-5msi

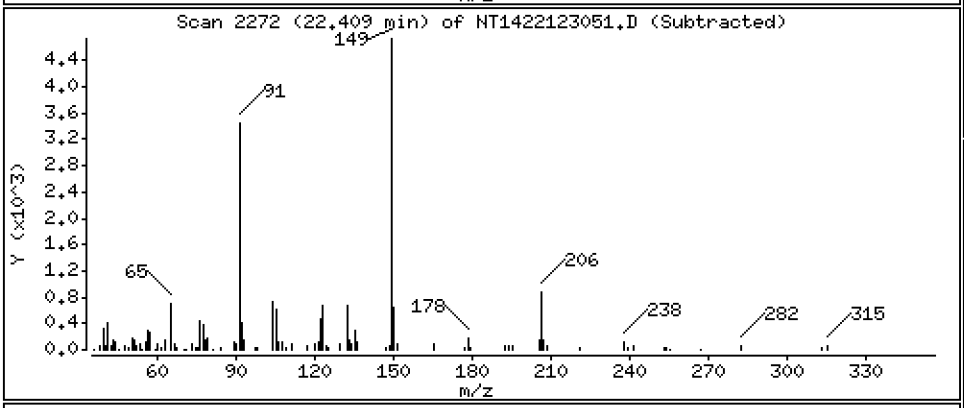
Column diameter: 0.25

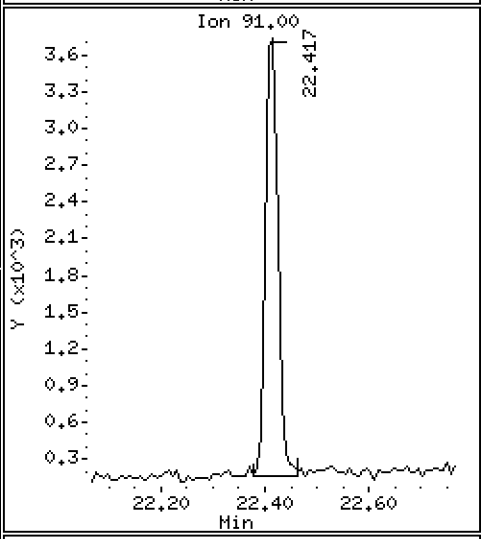
67 Butylbenzylphthalate

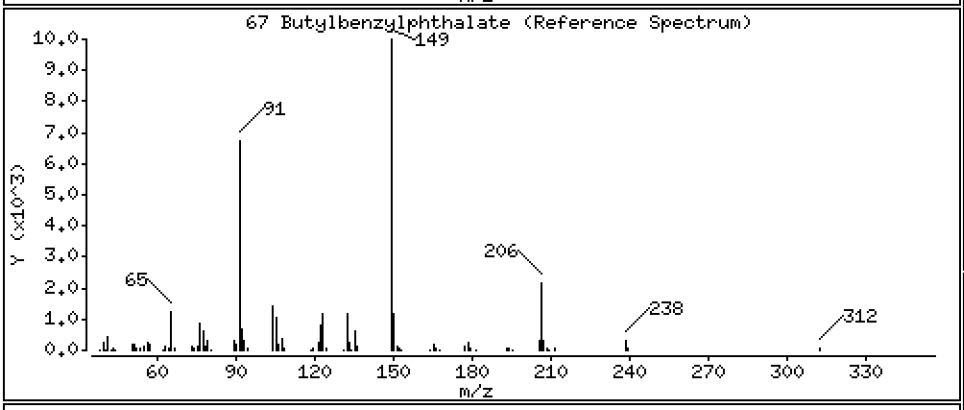
Concentration: 0.2080 ug/mL

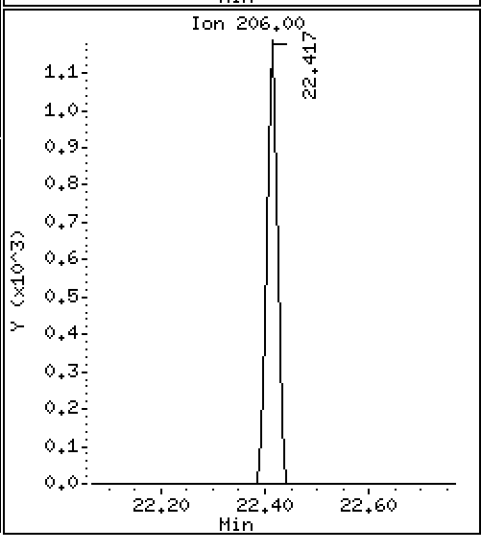


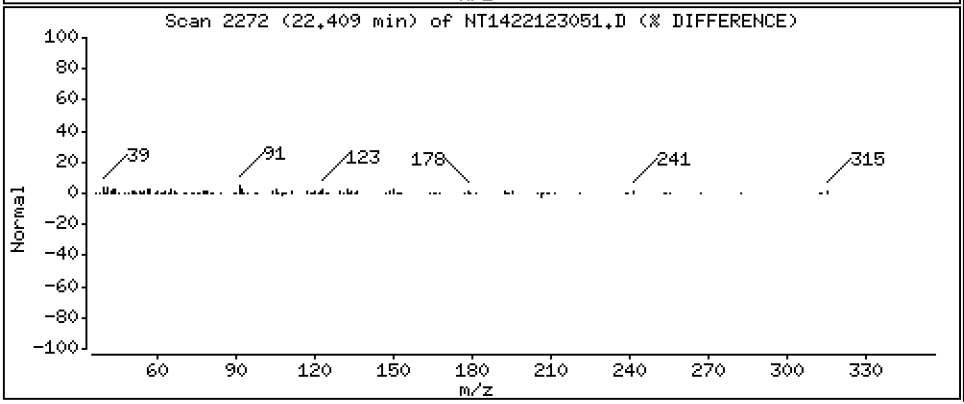












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

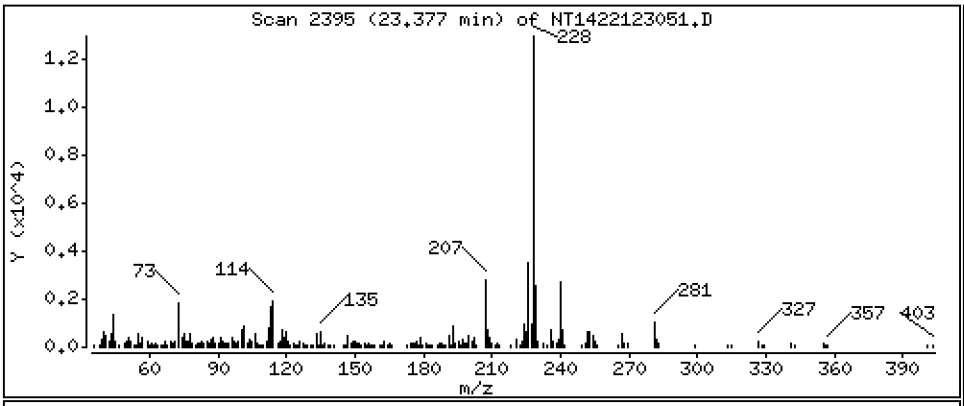
Operator: VTS

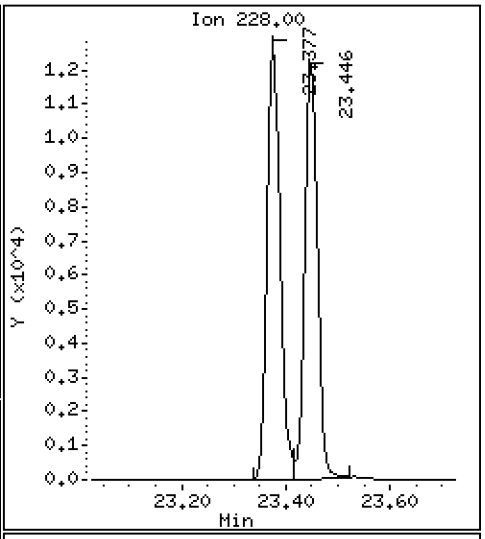
Column phase: ZB-5msi

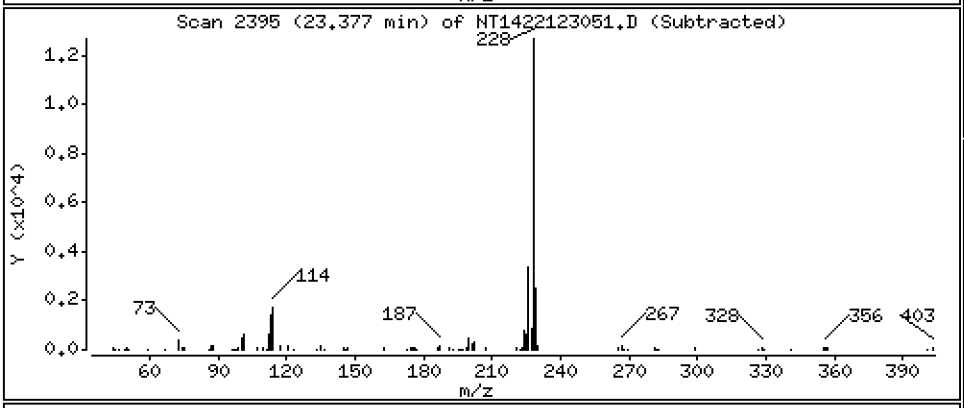
Column diameter: 0.25

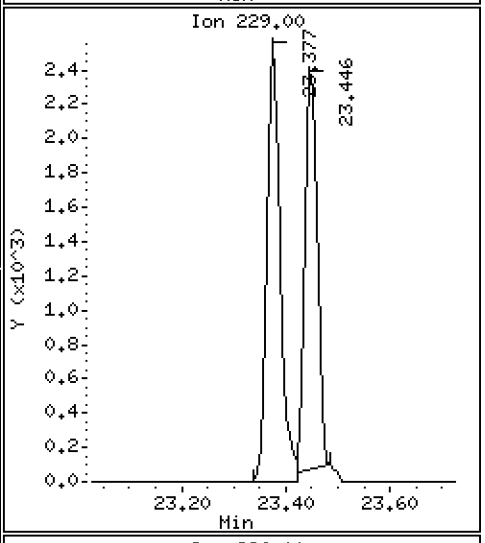
68 Benzo(a)anthracene

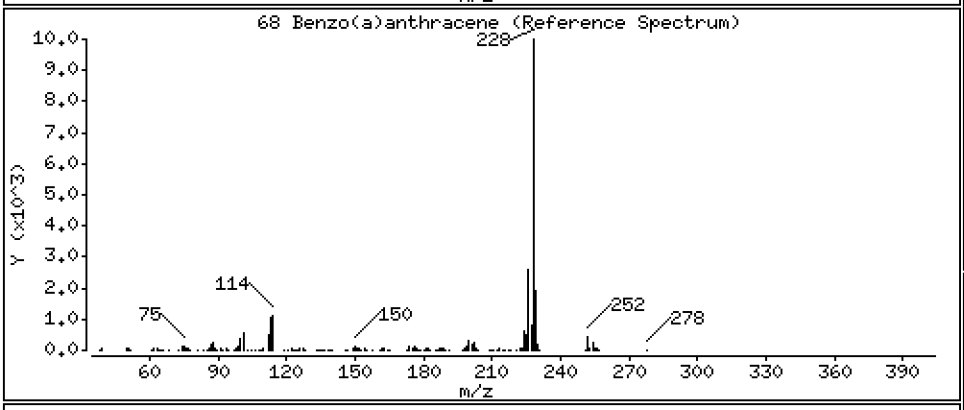
Concentration: 0.2415 ug/mL

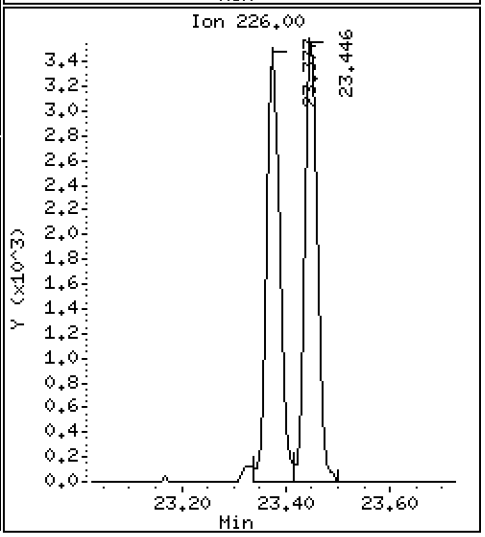


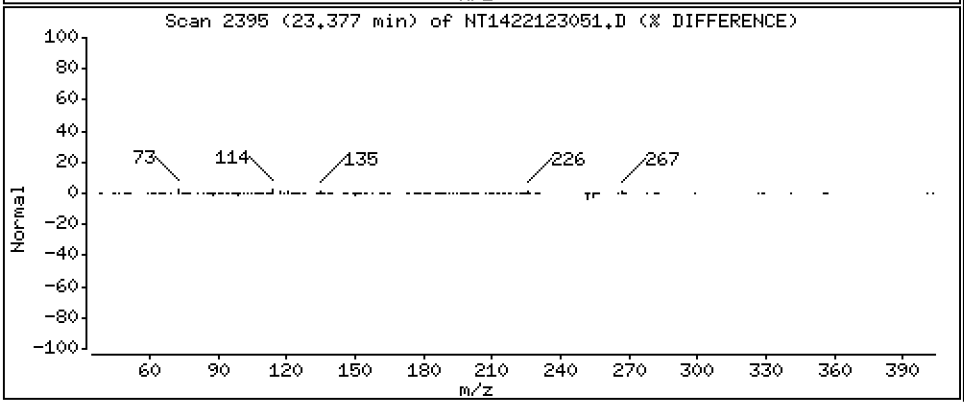












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

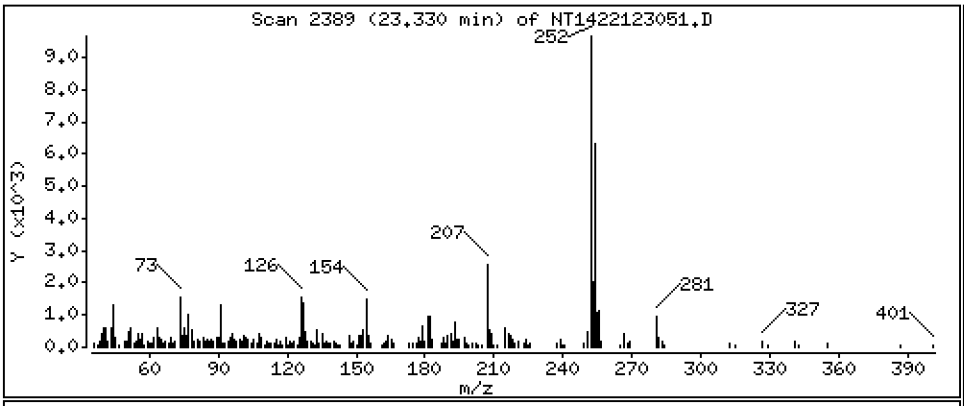
Operator: VTS

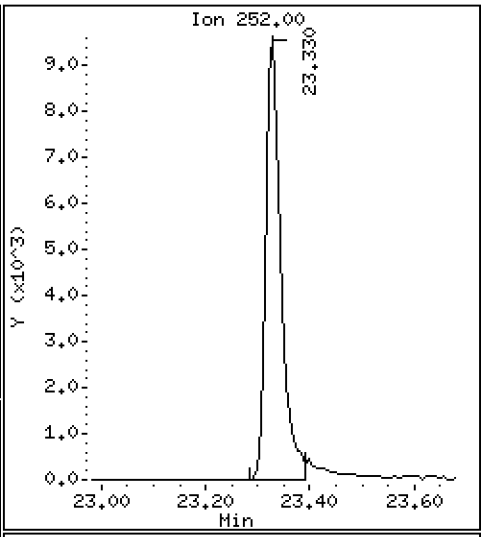
Column phase: ZB-5msi

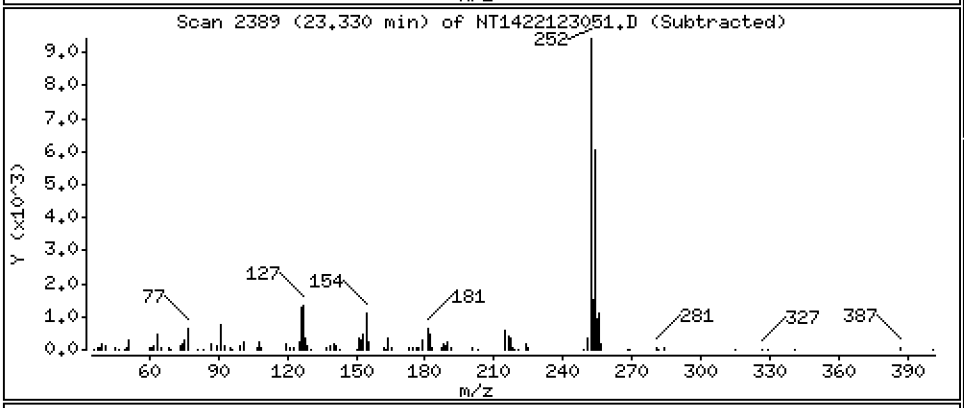
Column diameter: 0.25

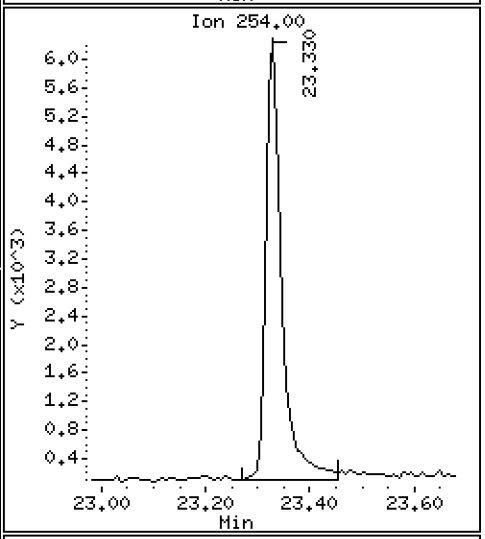
70 3,3'-Dichlorobenzidine

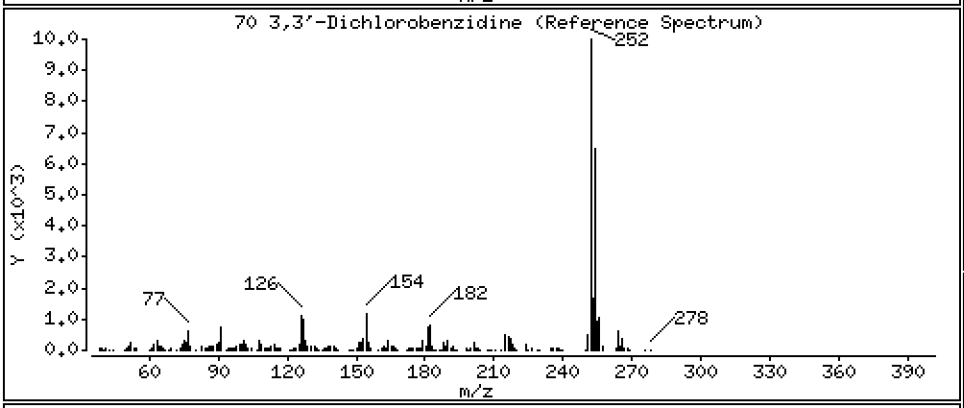
Concentration: 0.6962 ug/mL

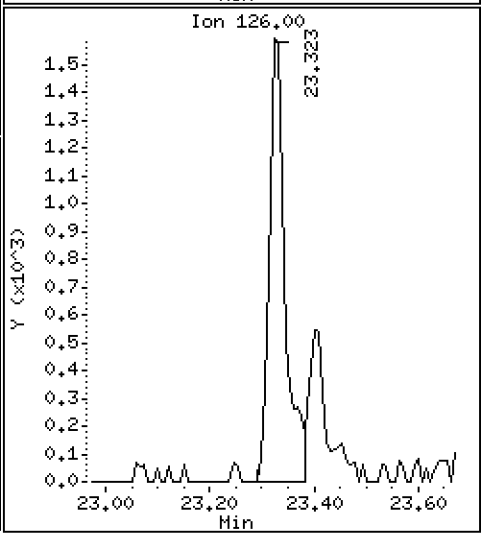


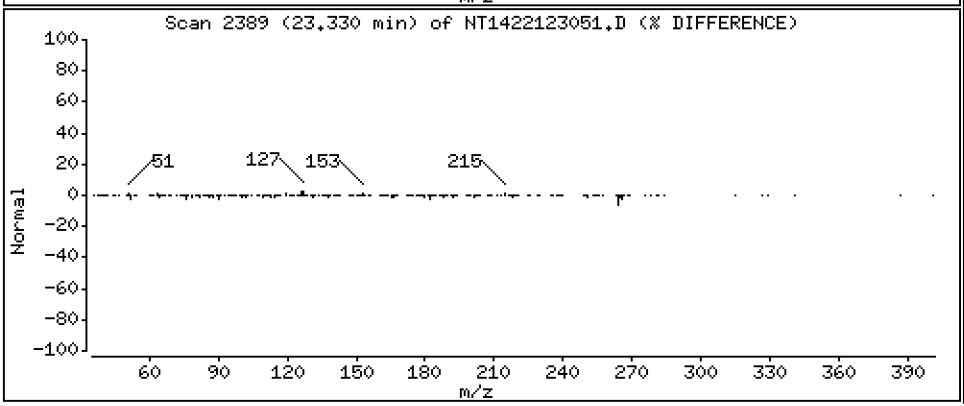












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

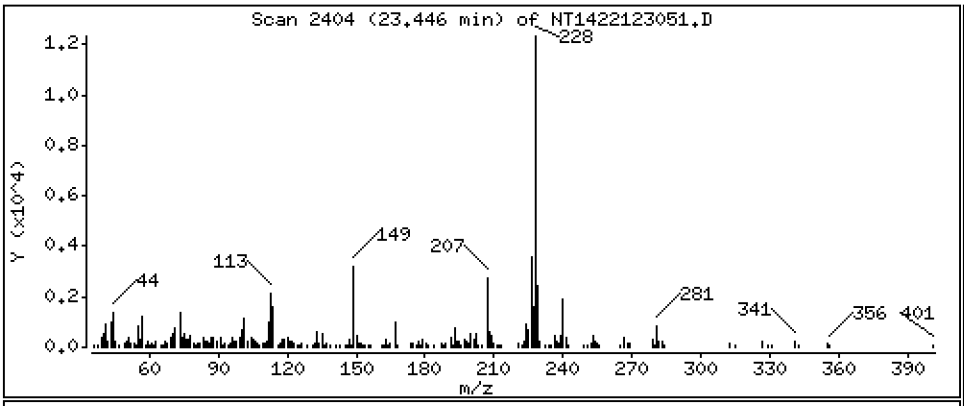
Operator: VTS

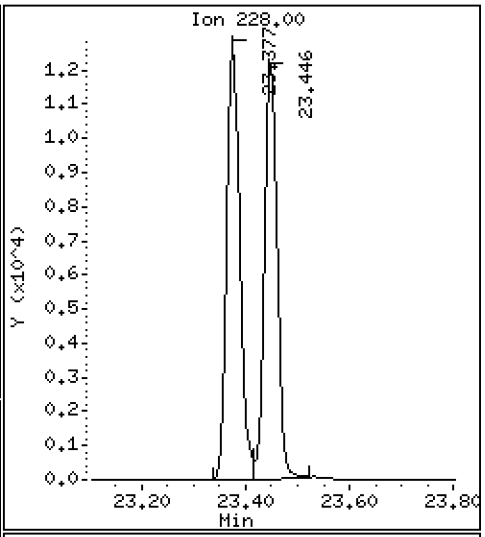
Column phase: ZB-5msi

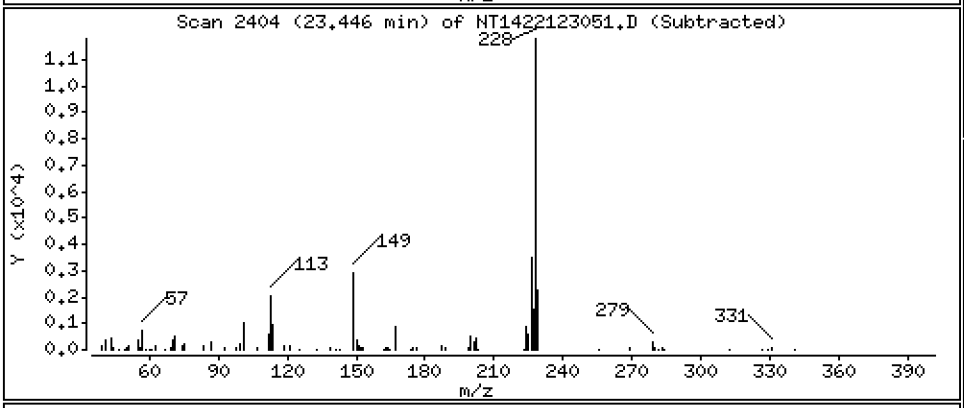
Column diameter: 0.25

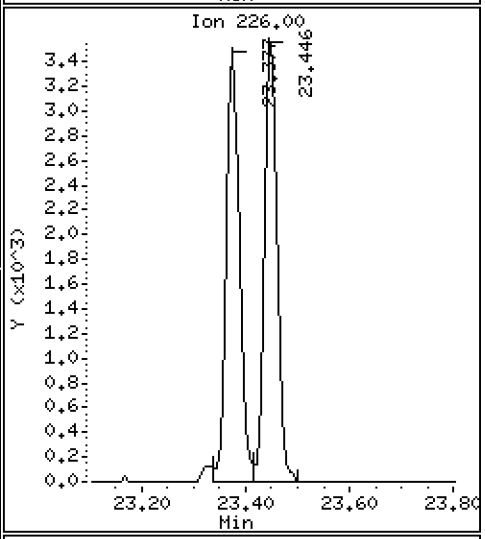
71 Chrysene

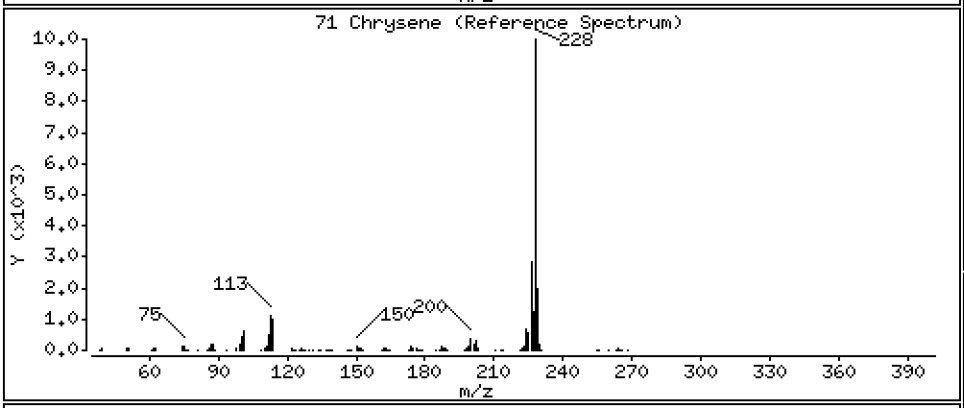
Concentration: 0.2414 ug/mL

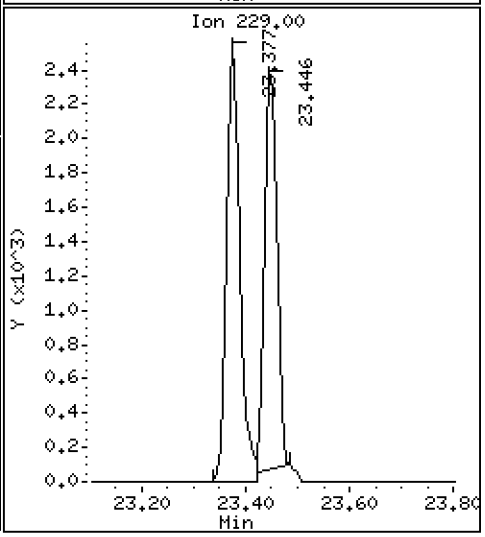


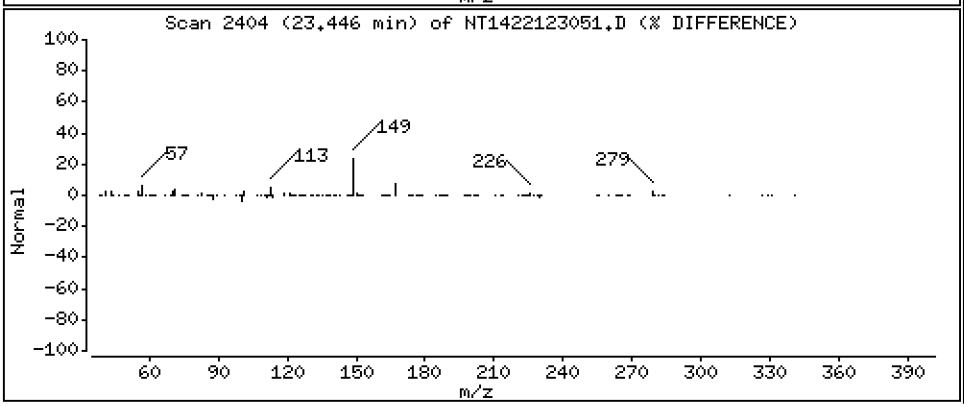












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

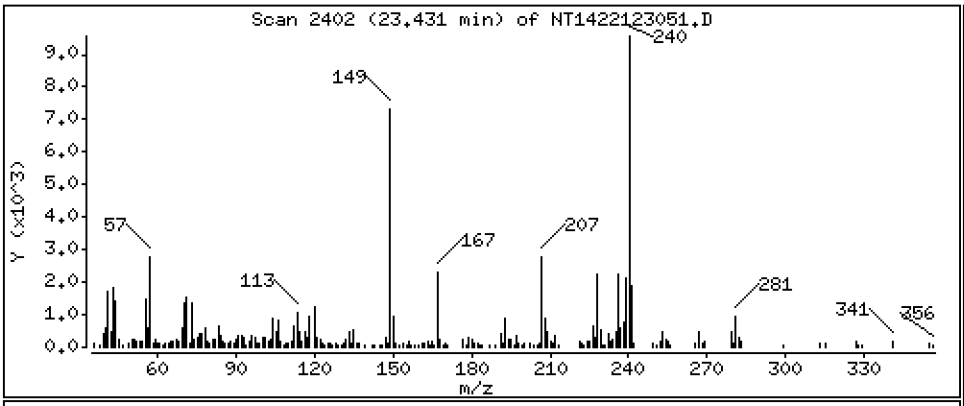
Operator: VTS

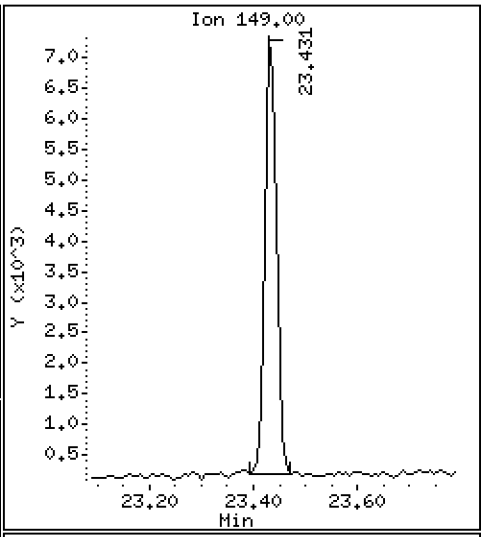
Column phase: ZB-5msi

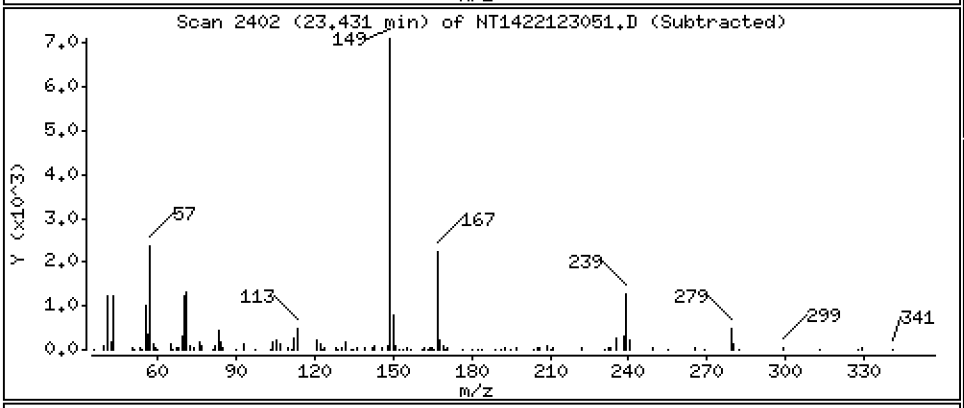
Column diameter: 0.25

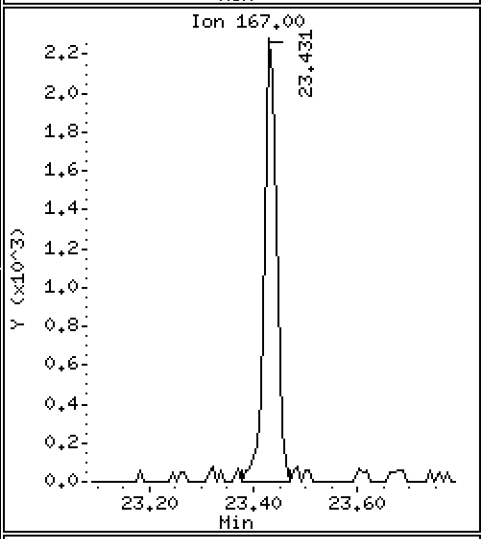
72 bis(2-Ethylhexyl)phthalate

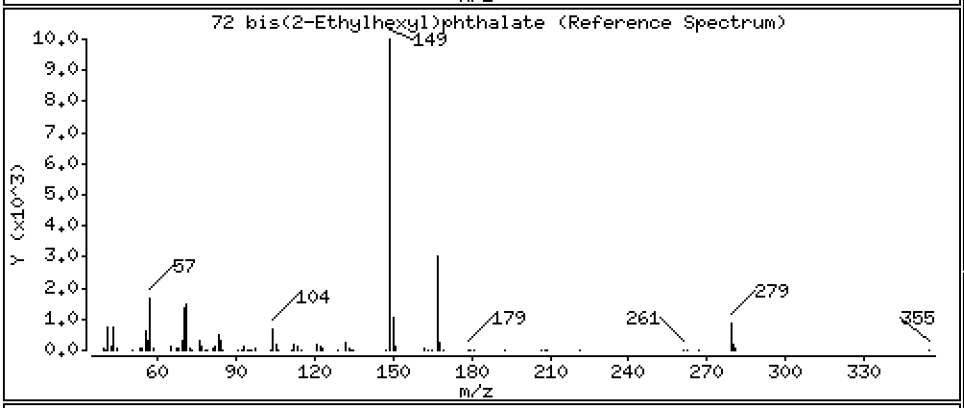
Concentration: 0.2185 ug/mL

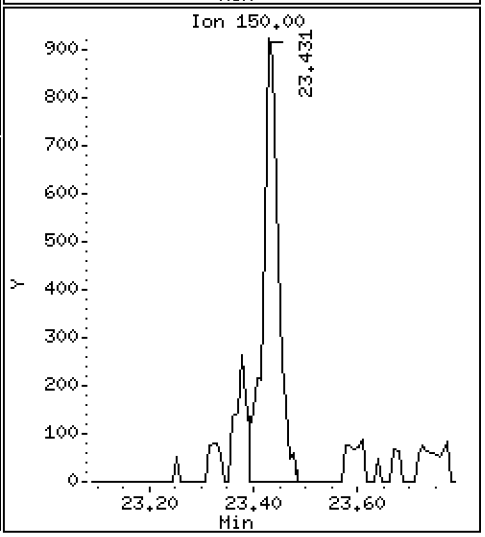


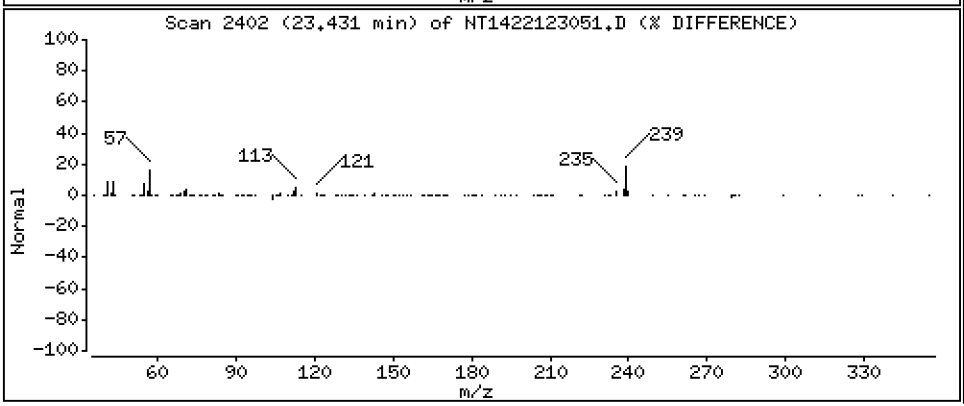












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

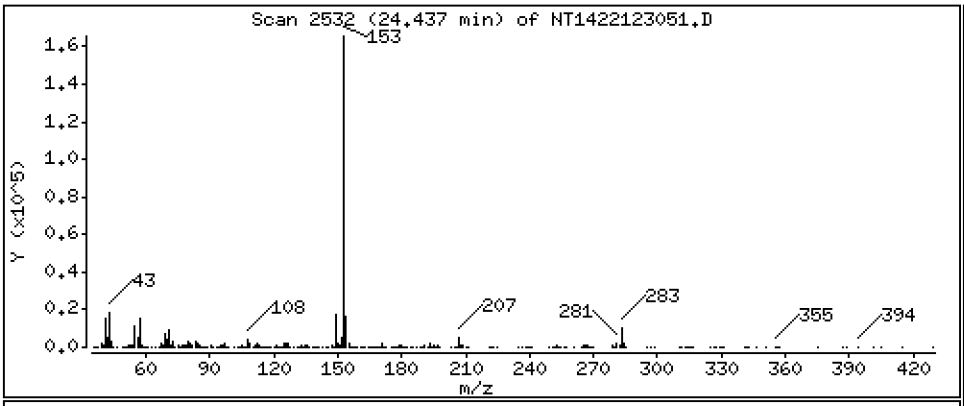
Operator: VTS

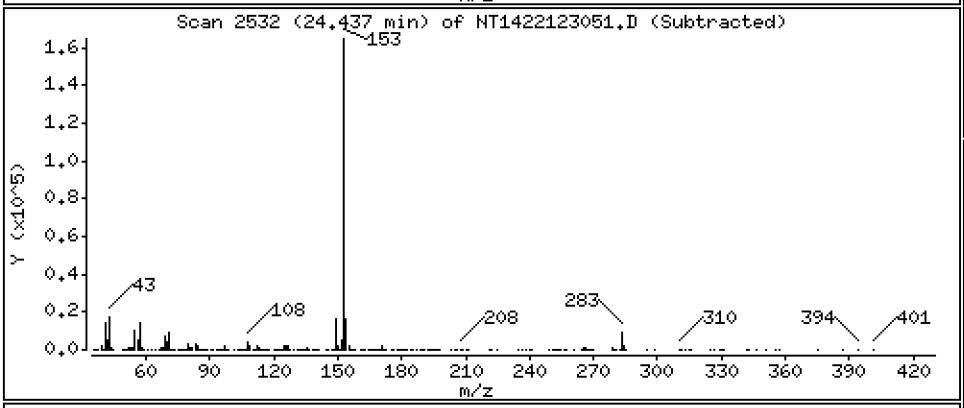
Column phase: ZB-5msi

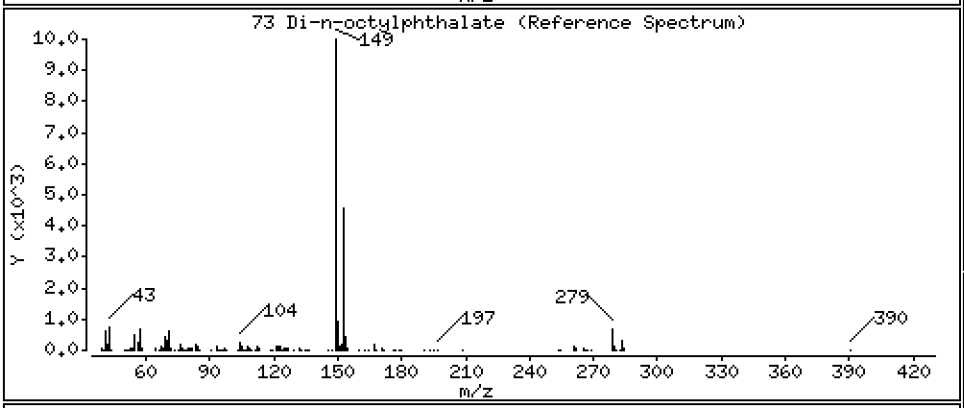
Column diameter: 0.25

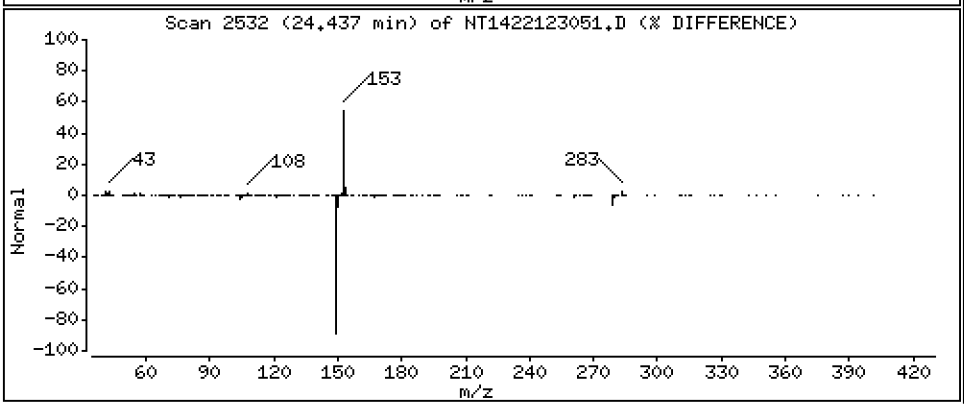
73 Di-n-octylphthalate

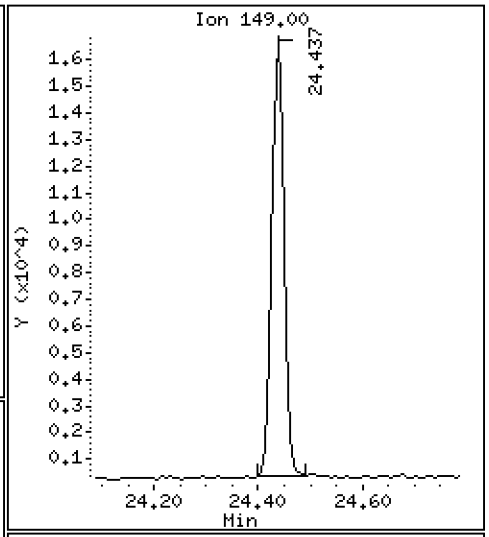
Concentration: 0.2419 ug/mL

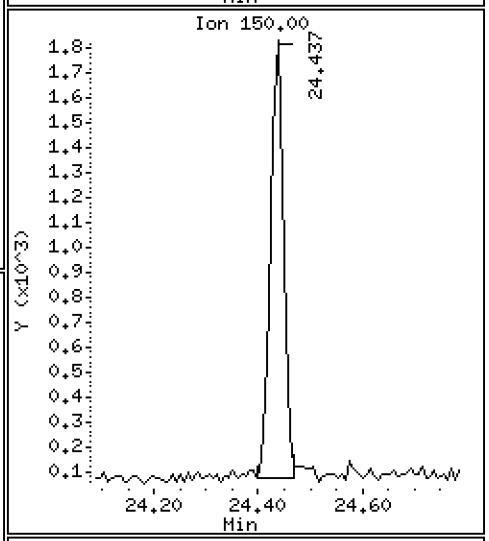


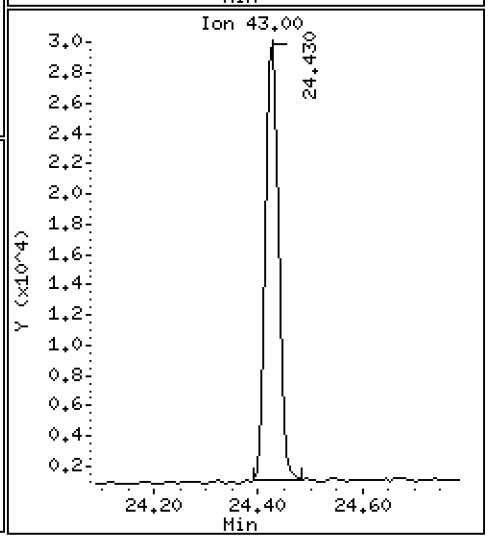












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

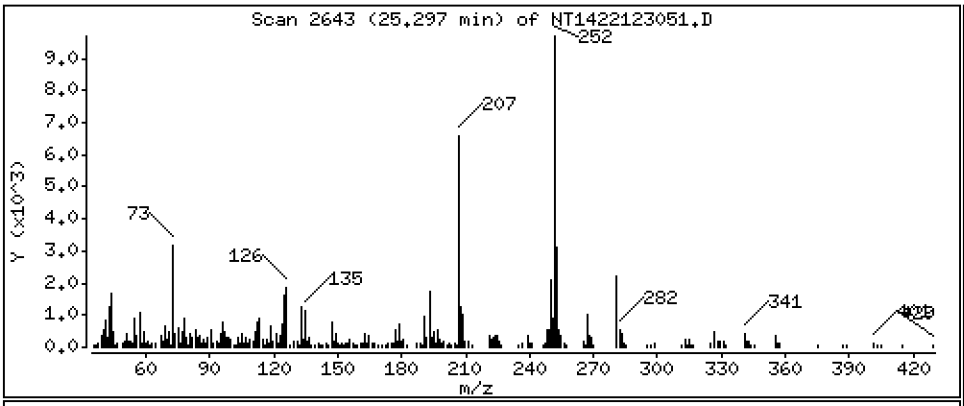
Operator: VTS

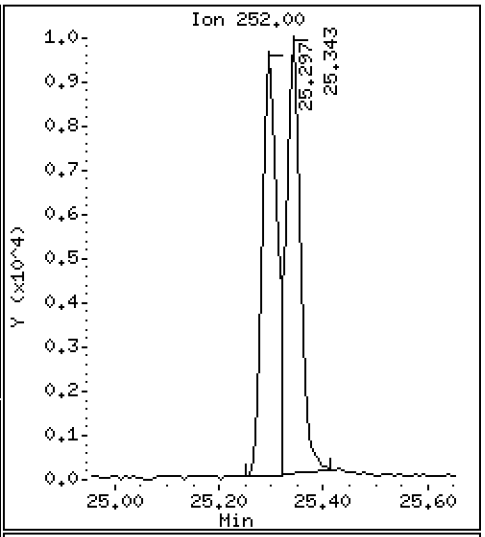
Column phase: ZB-5msi

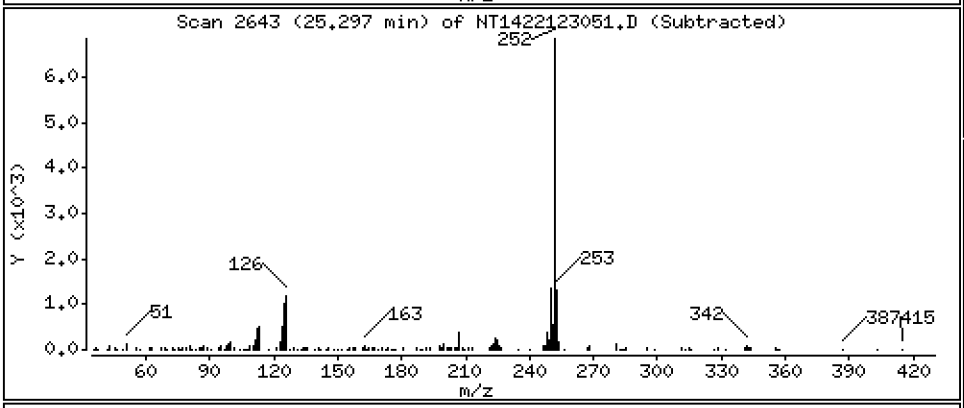
Column diameter: 0.25

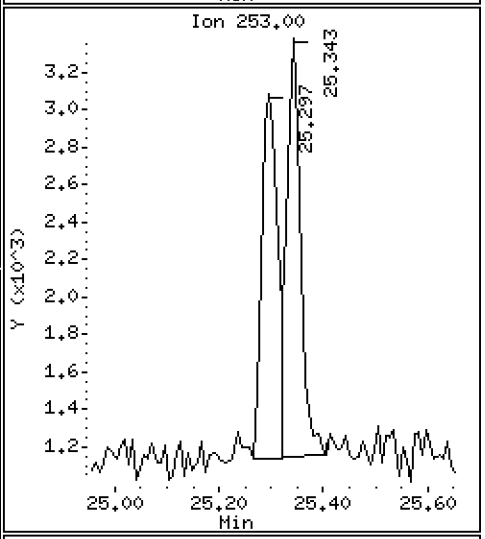
74 Benzo(b)fluoranthene

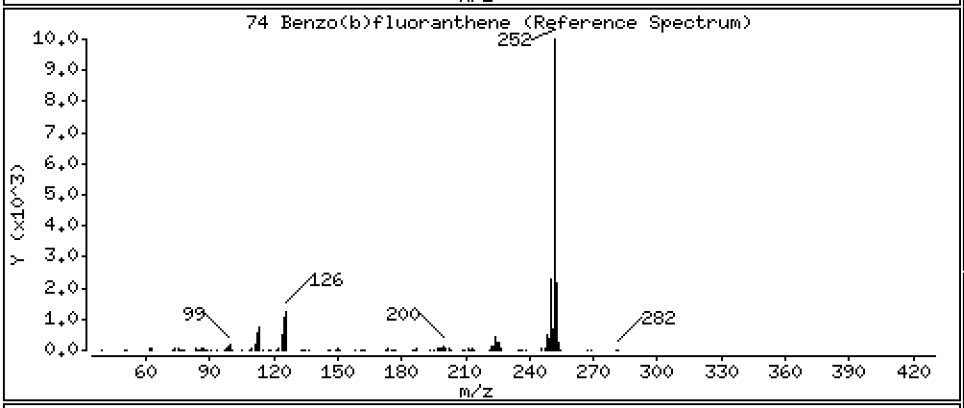
Concentration: 0.2459 ug/mL

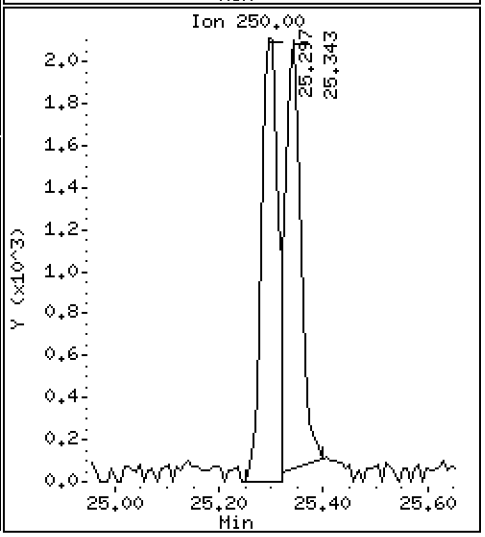


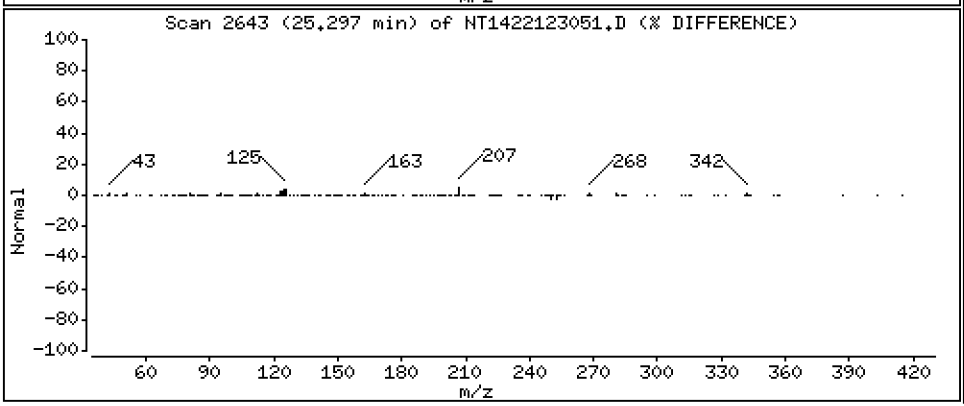












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

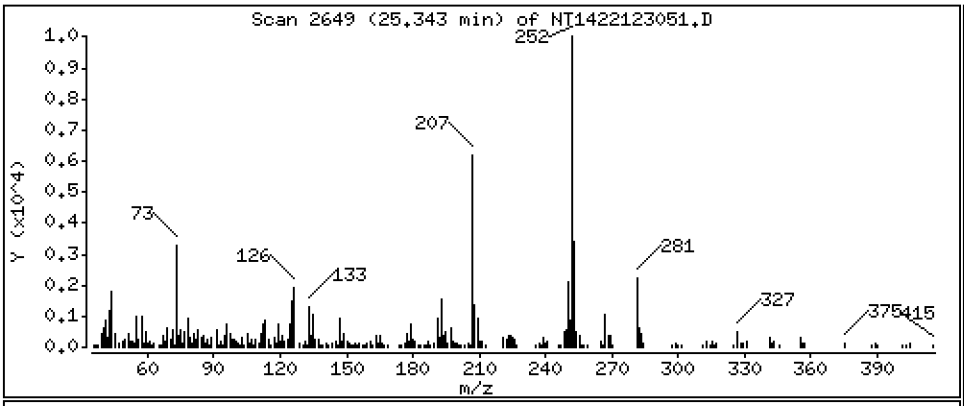
Operator: VTS

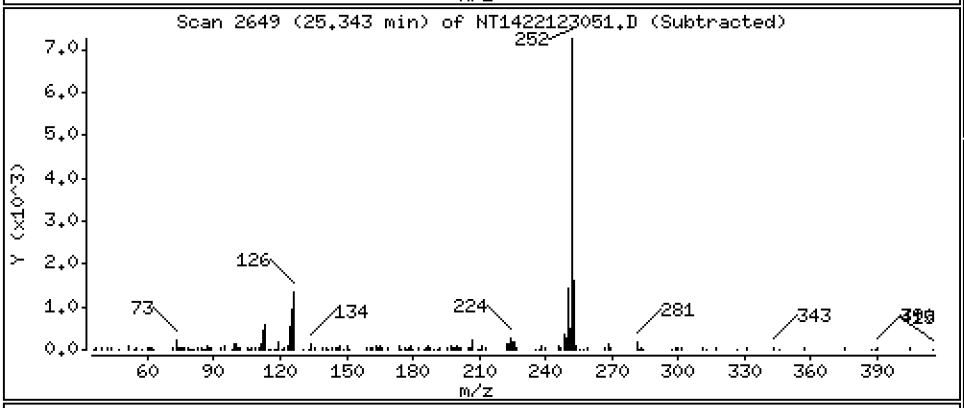
Column phase: ZB-5msi

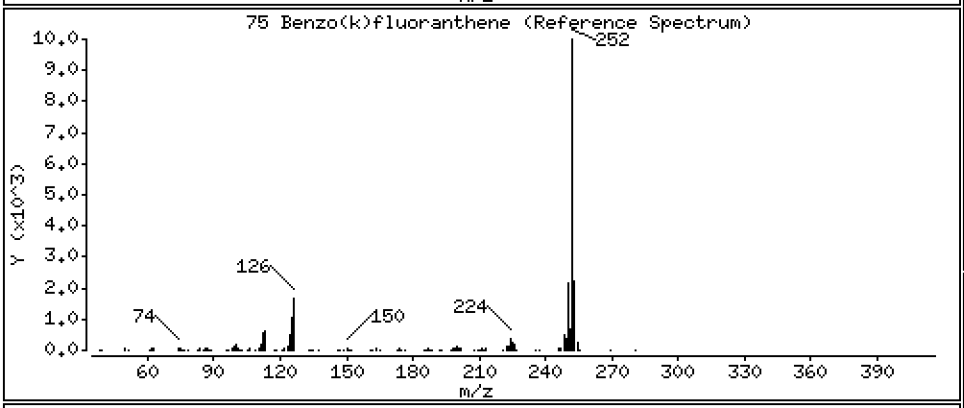
Column diameter: 0.25

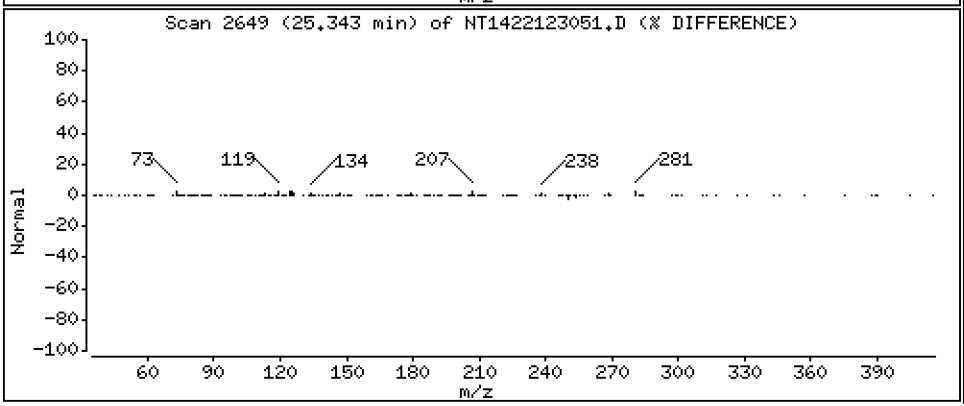
75 Benzo(k)fluoranthene

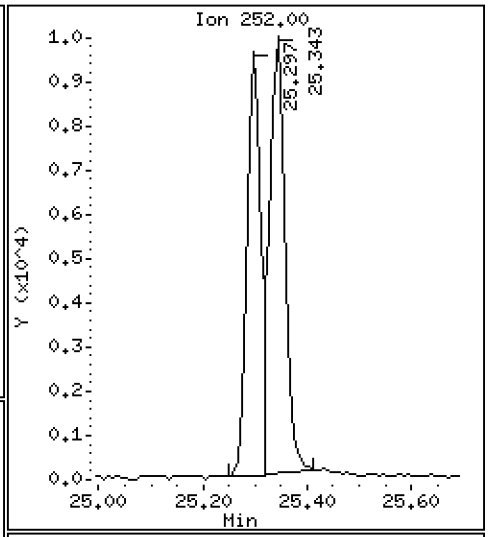
Concentration: 0.2549 ug/mL

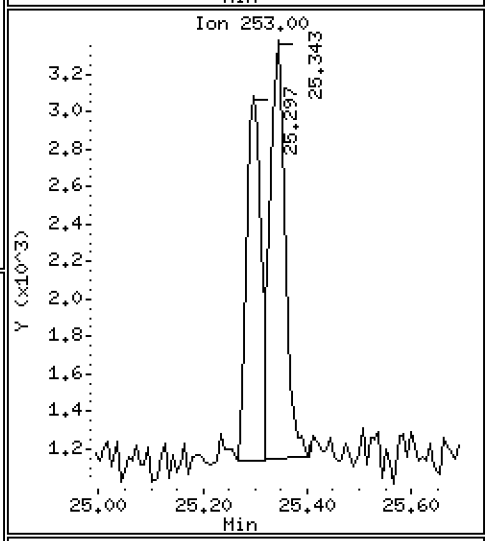


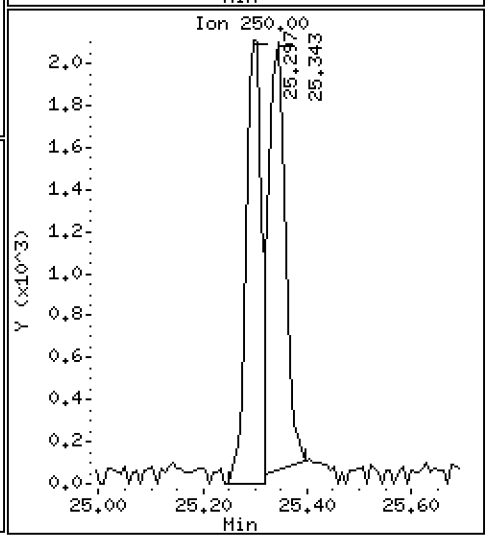












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

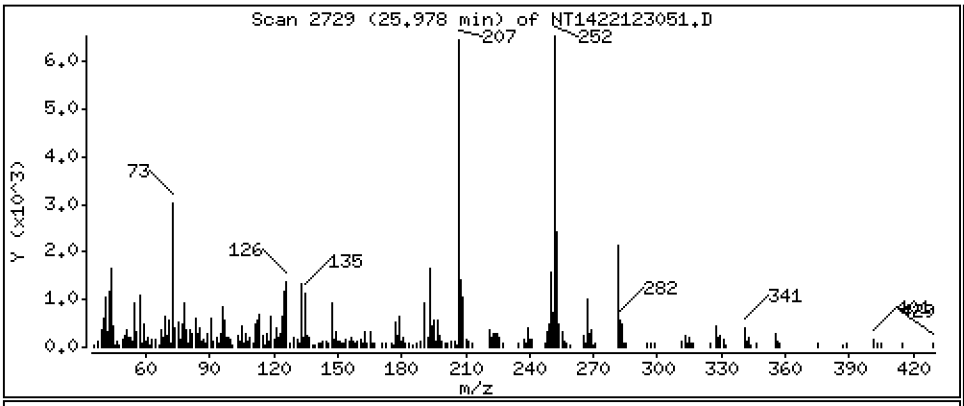
Operator: VTS

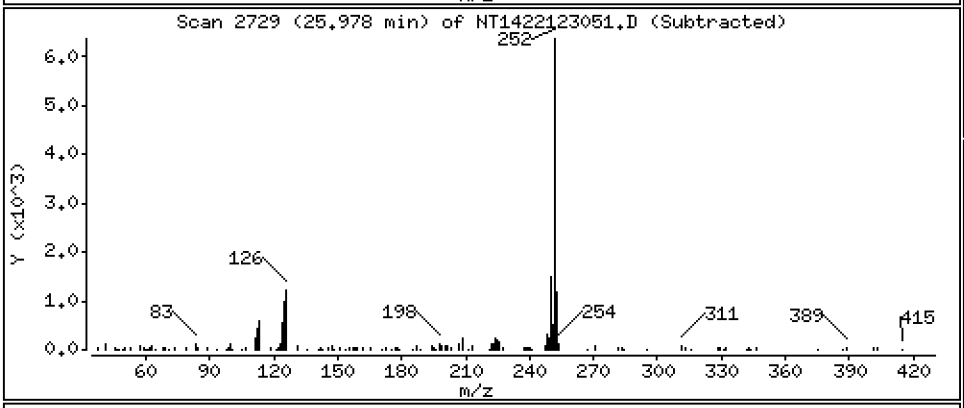
Column phase: ZB-5msi

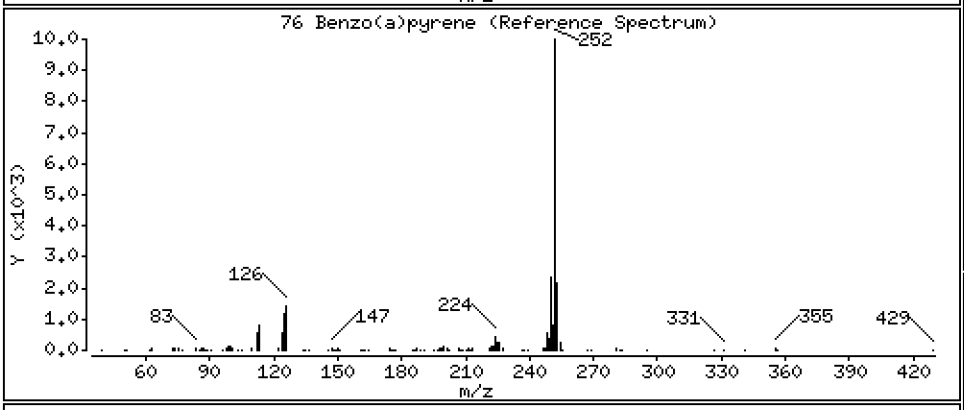
Column diameter: 0.25

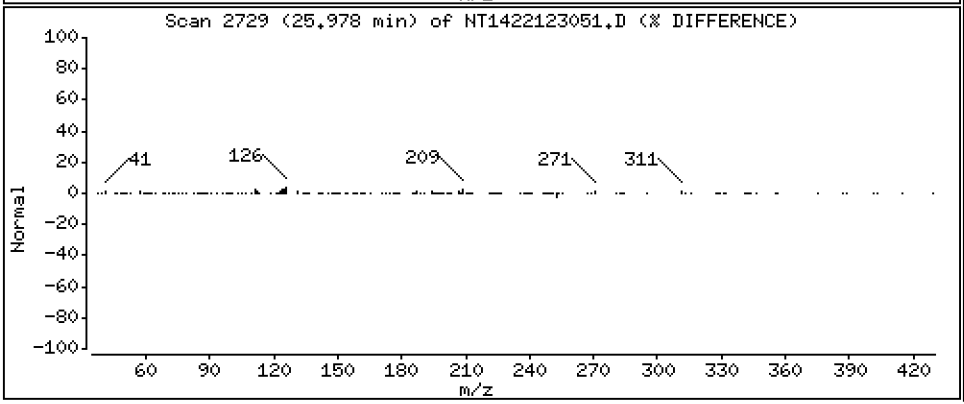
76 Benzo(a)pyrene

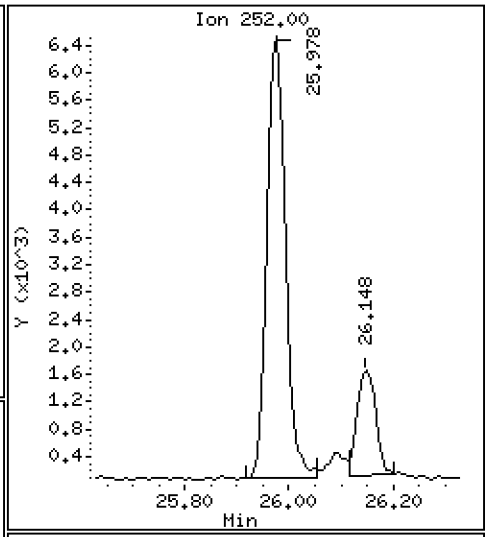
Concentration: 0.2416 ug/mL

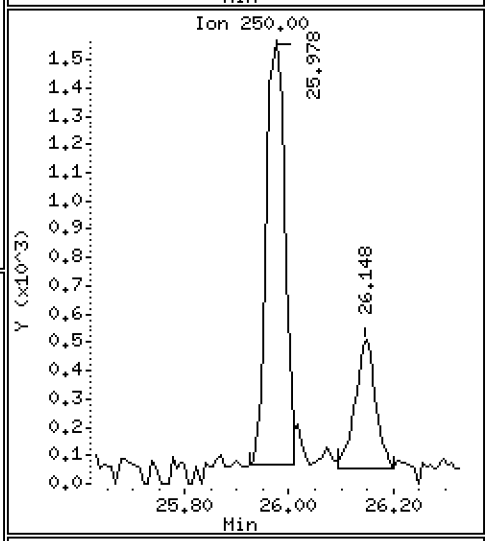


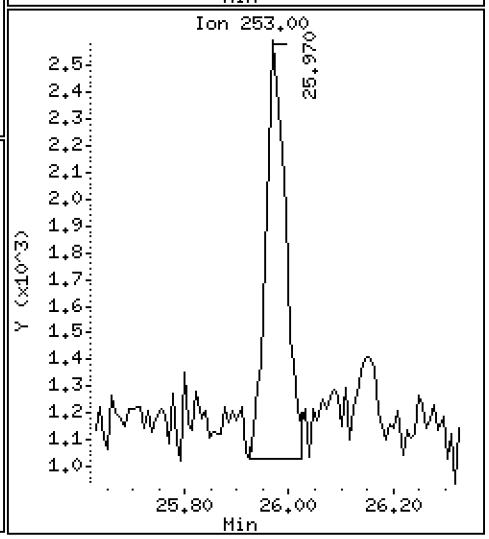












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

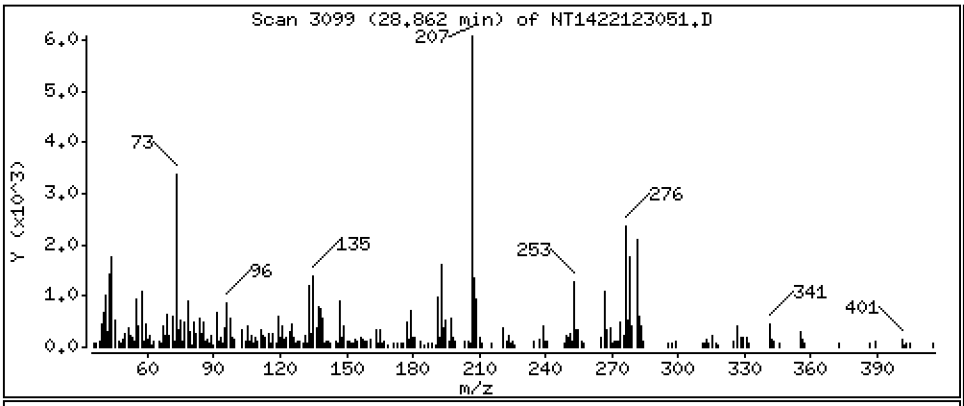
Operator: VTS

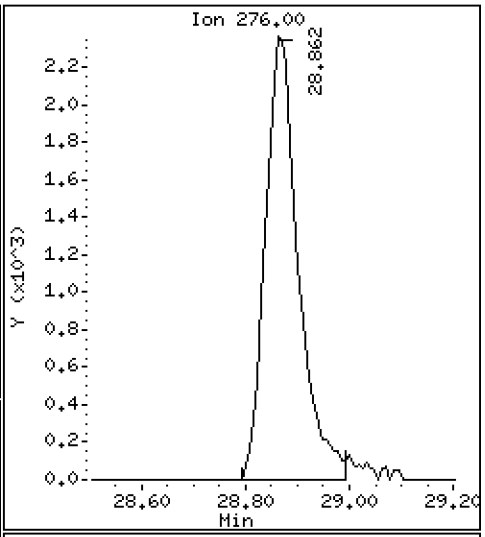
Column phase: ZB-5msi

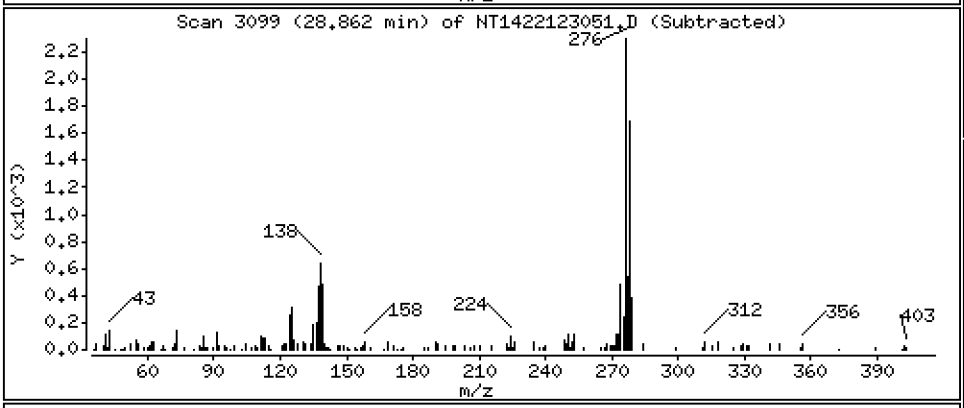
Column diameter: 0.25

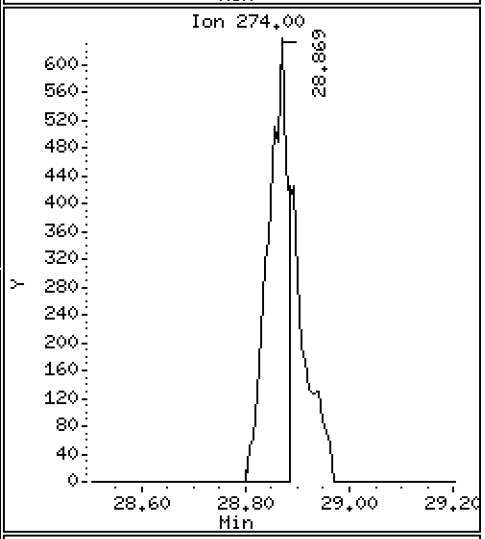
78 Indeno(1,2,3-cd)pyrene

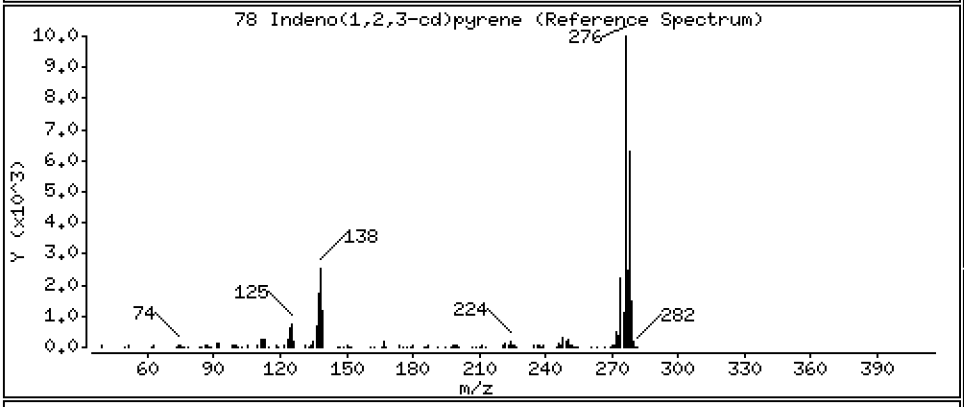
Concentration: 0.1427 ug/mL

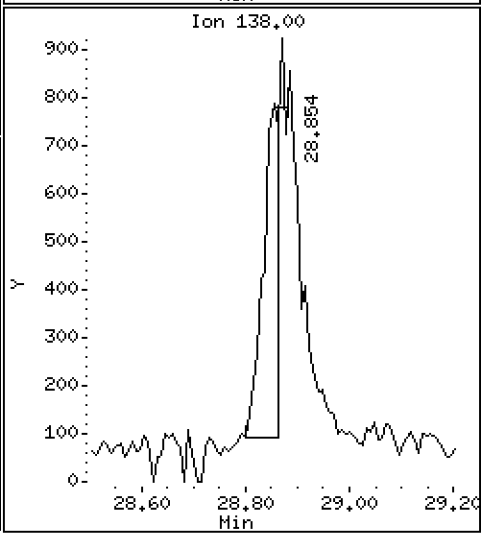


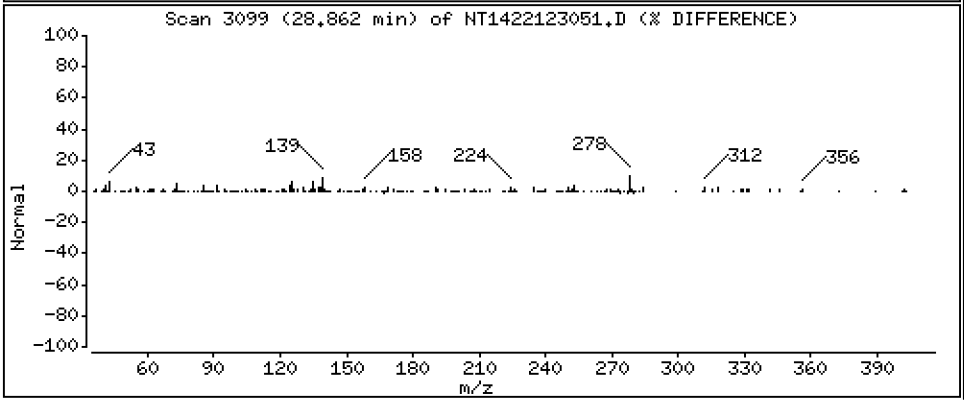












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

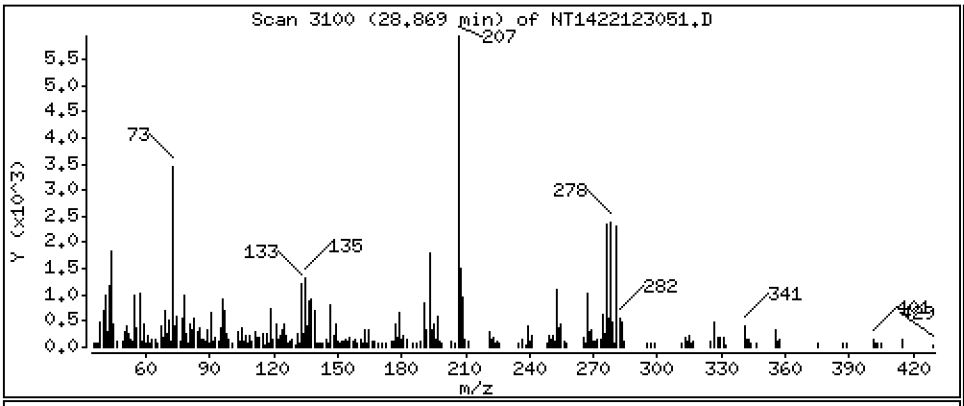
Operator: VTS

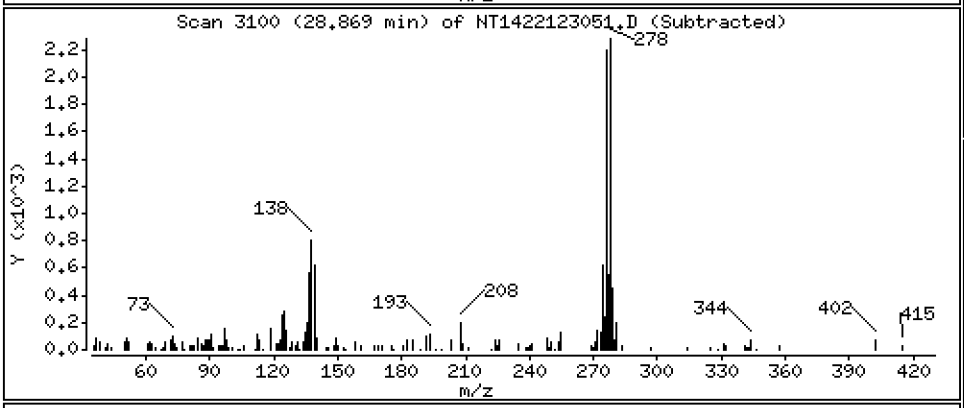
Column phase: ZB-5msi

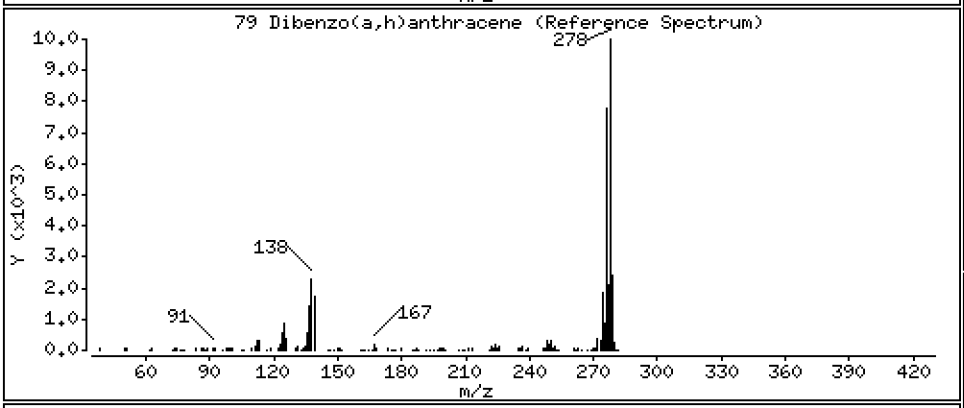
Column diameter: 0.25

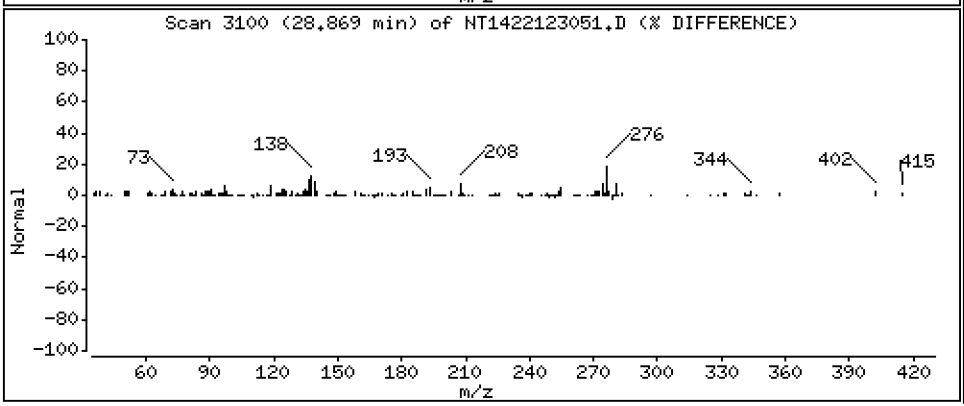
79 Dibenzo(a,h)anthracene

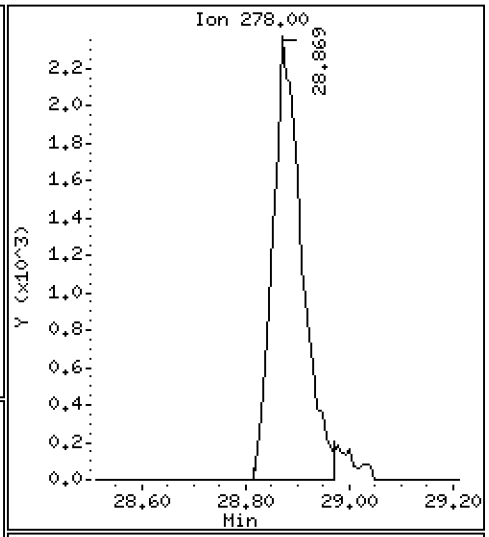
Concentration: 0.1497 ug/mL

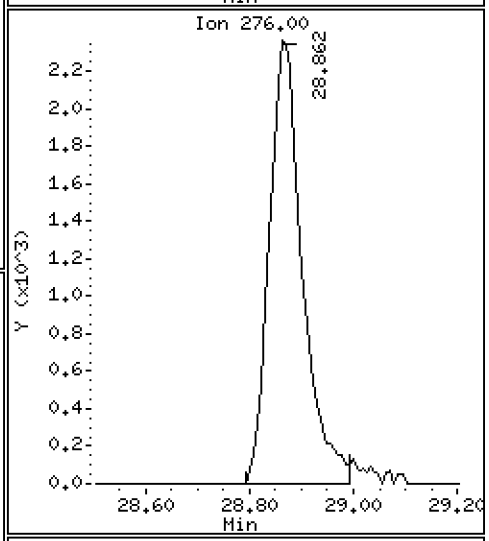


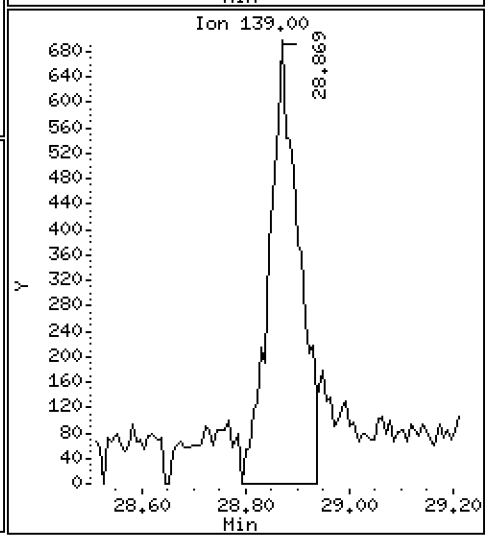












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

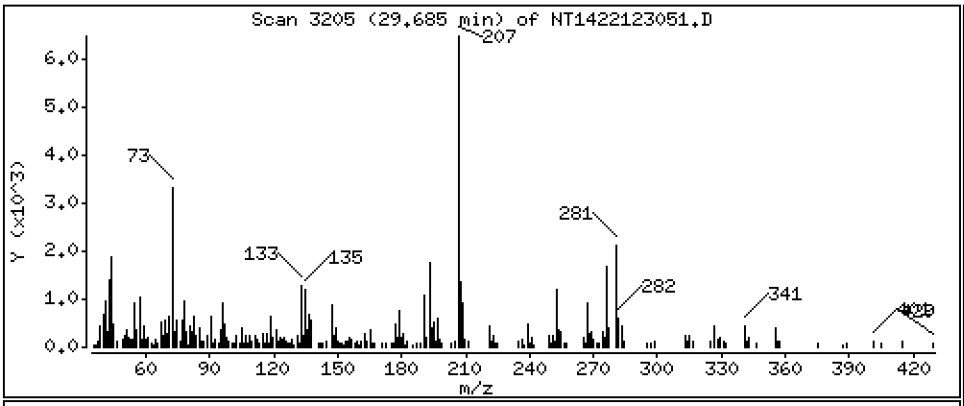
Operator: VTS

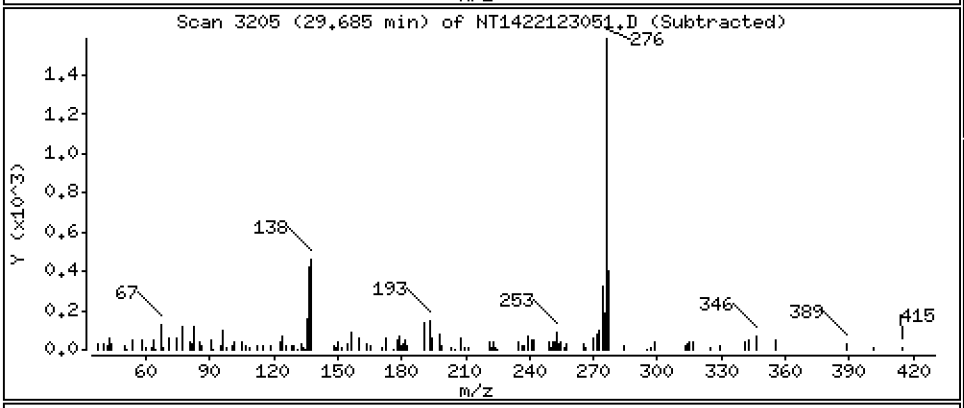
Column phase: ZB-5msi

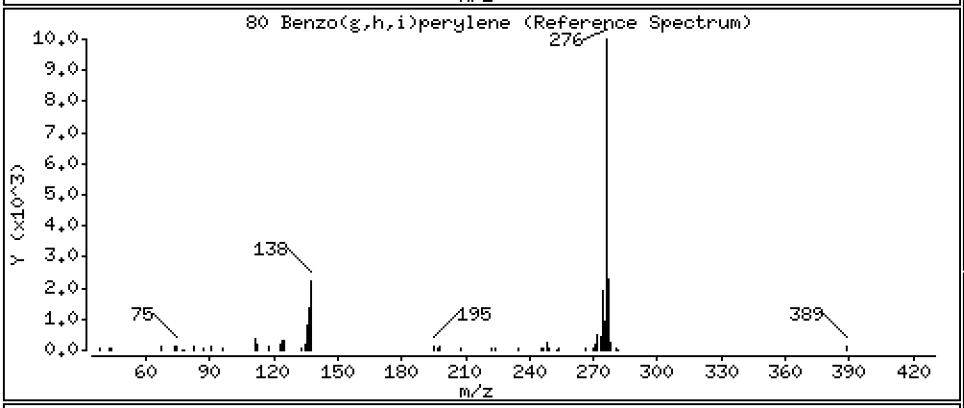
Column diameter: 0.25

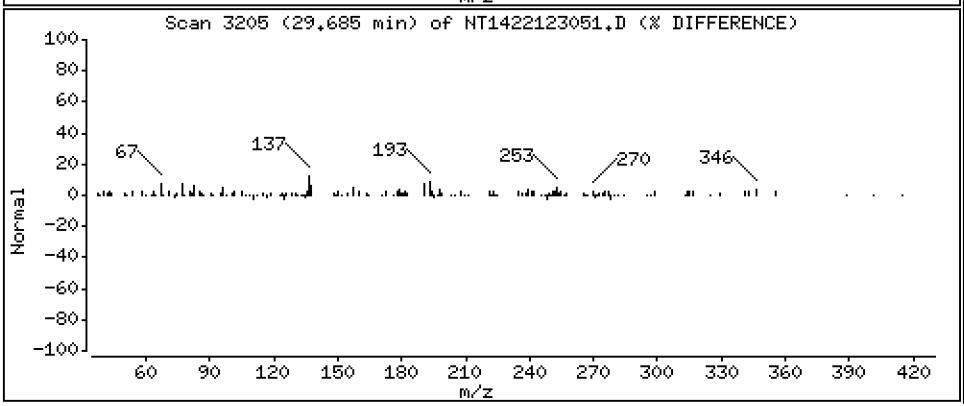
80 Benzo(g,h,i)perylene

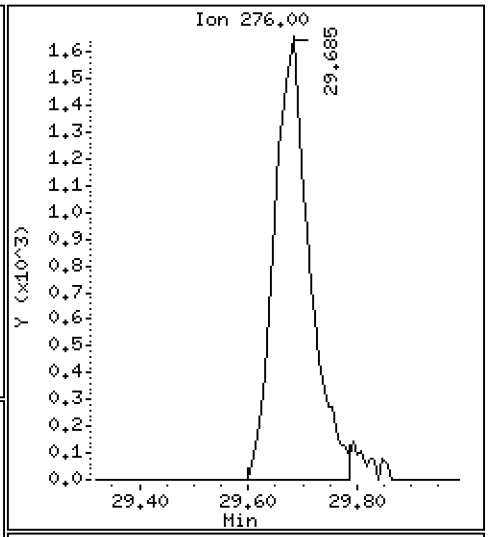
Concentration: 0.1229 ug/mL

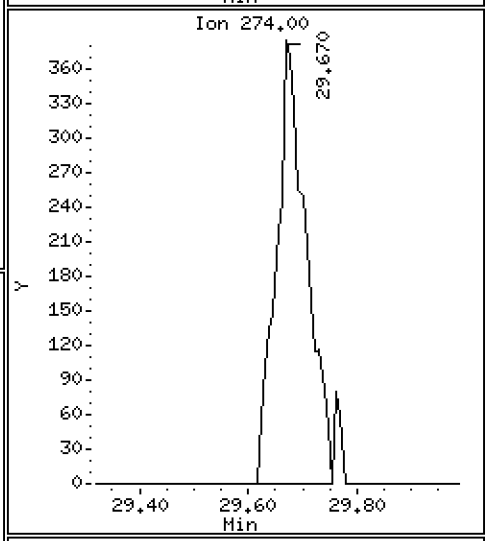


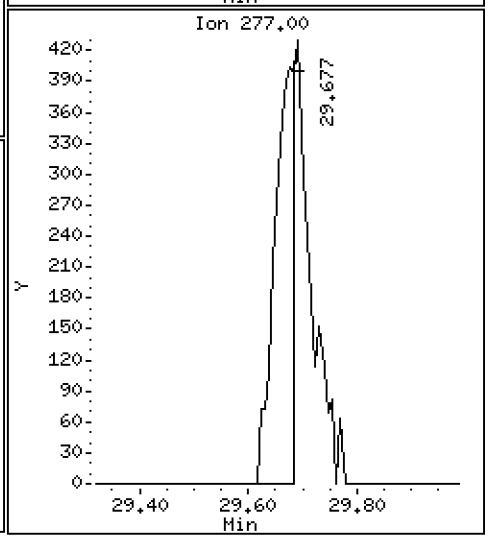












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

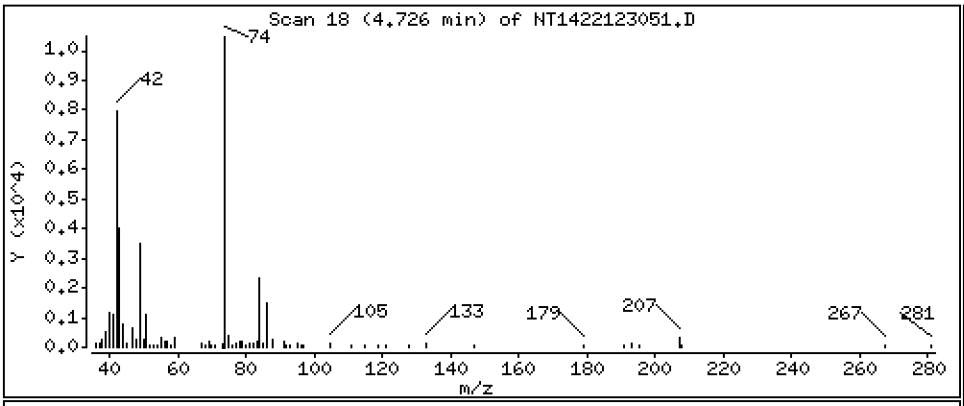
Operator: VTS

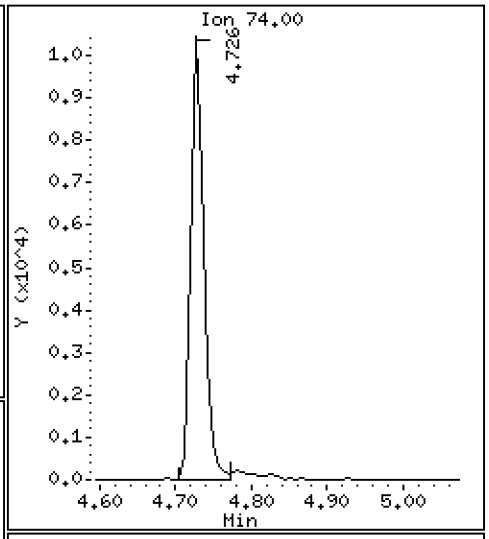
Column phase: ZB-5msi

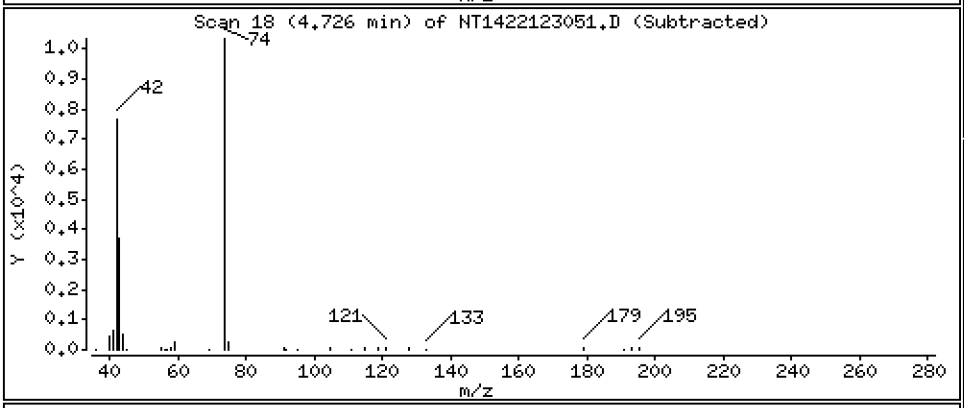
Column diameter: 0.25

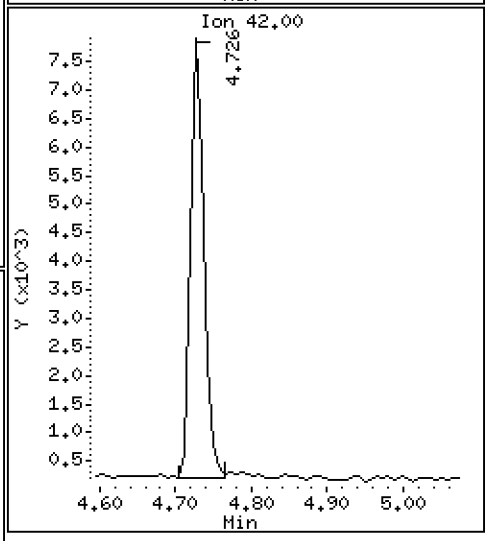
90 N-Nitrosodimethylamine

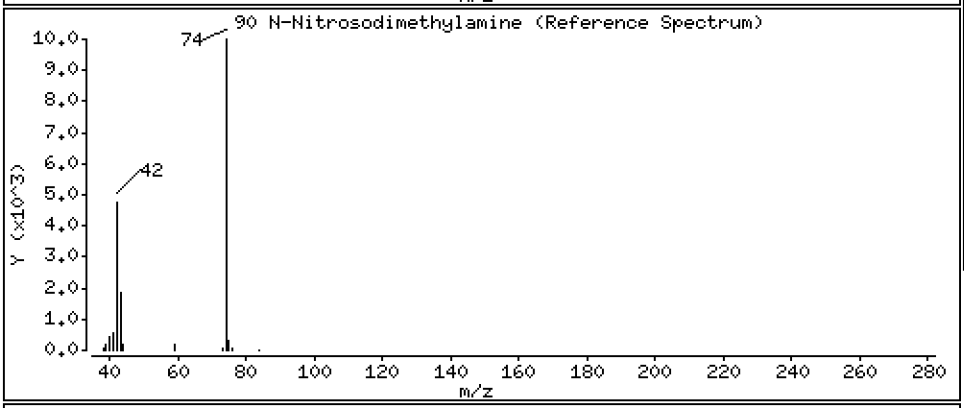
Concentration: 0.4965 ug/mL

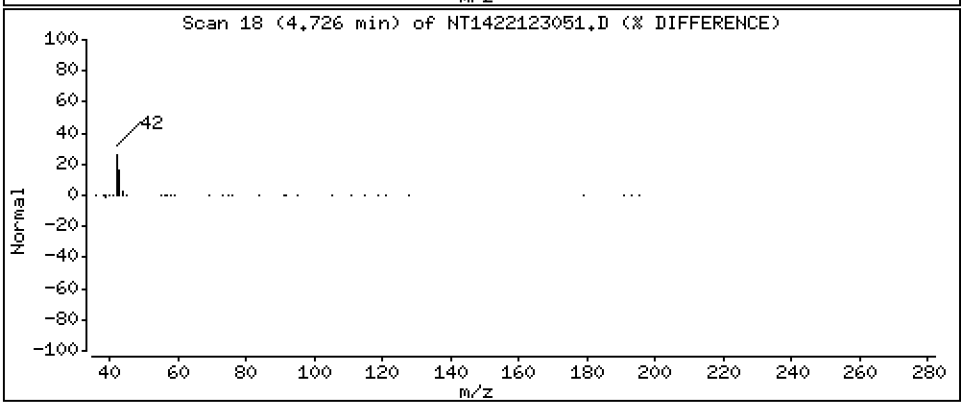












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

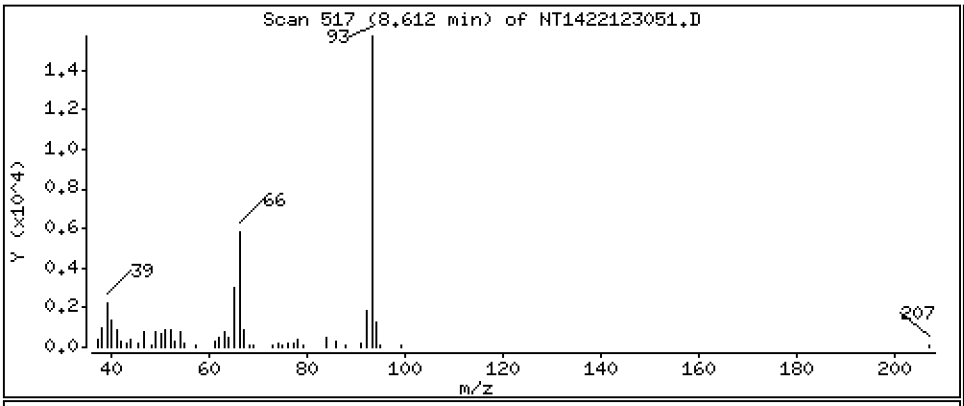
Operator: VTS

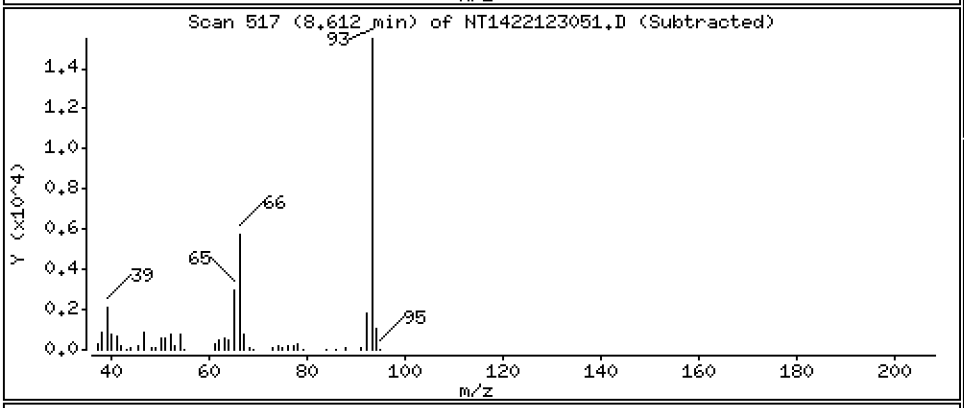
Column phase: ZB-5msi

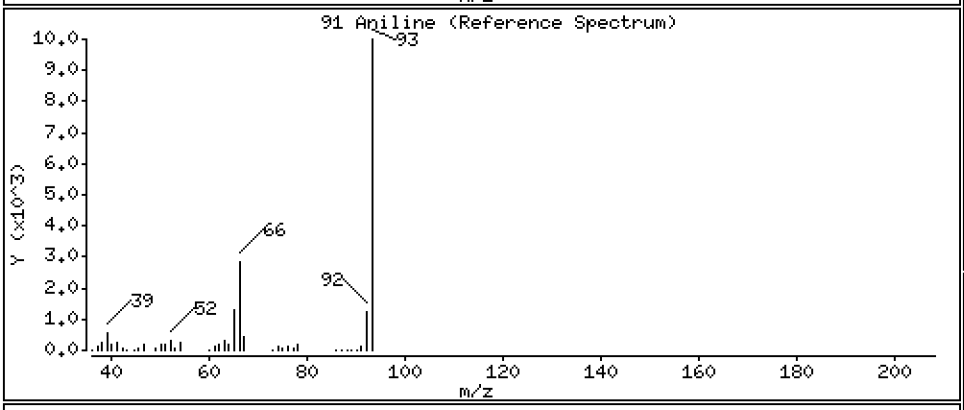
Column diameter: 0.25

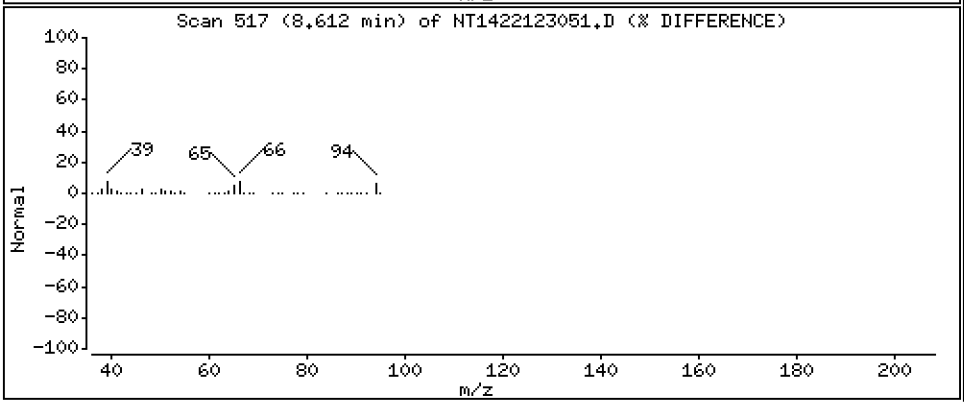
91 Aniline

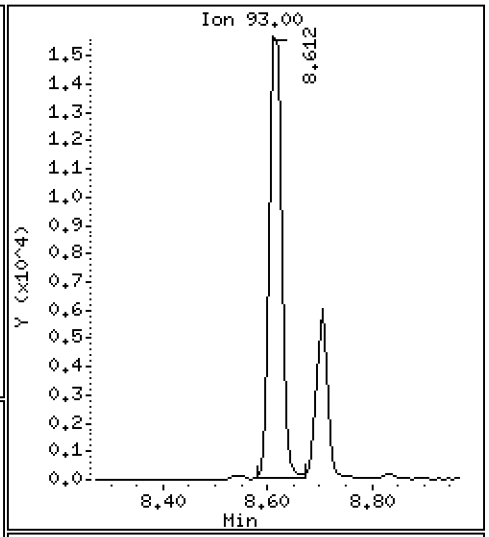
Concentration: 0.4714 ug/mL

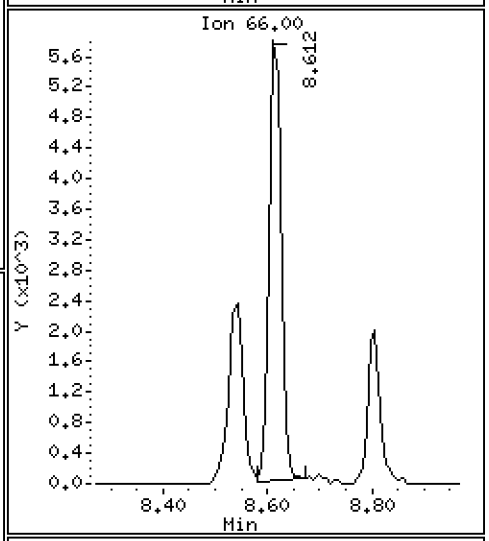


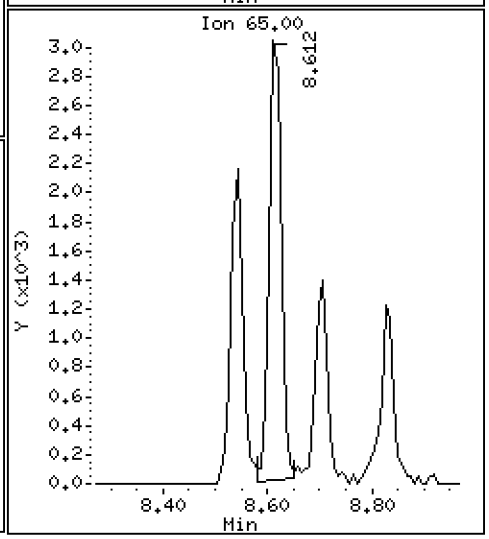












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

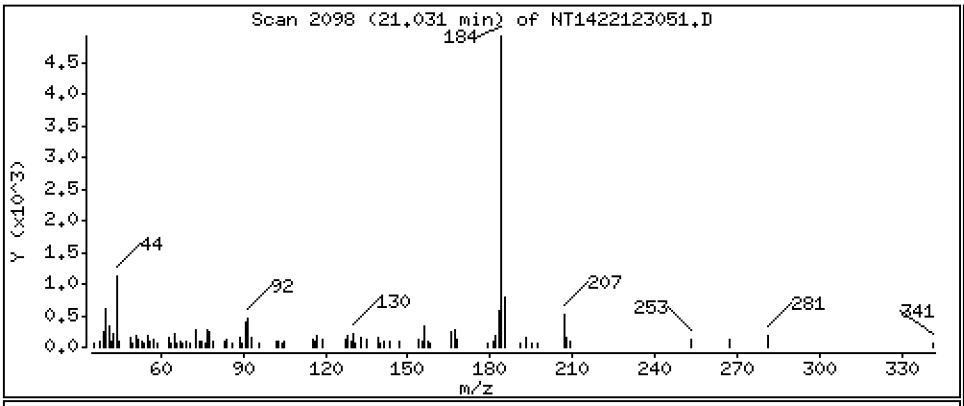
Operator: VTS

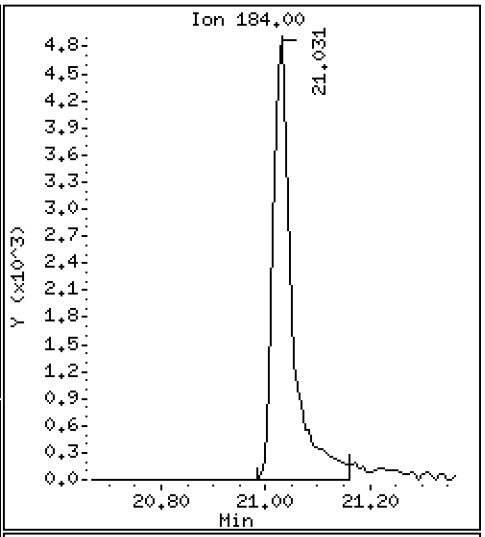
Column phase: ZB-5msi

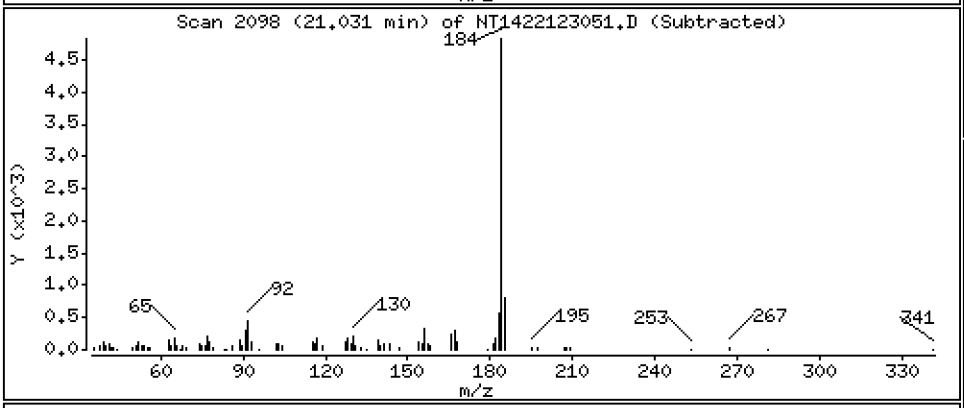
Column diameter: 0.25

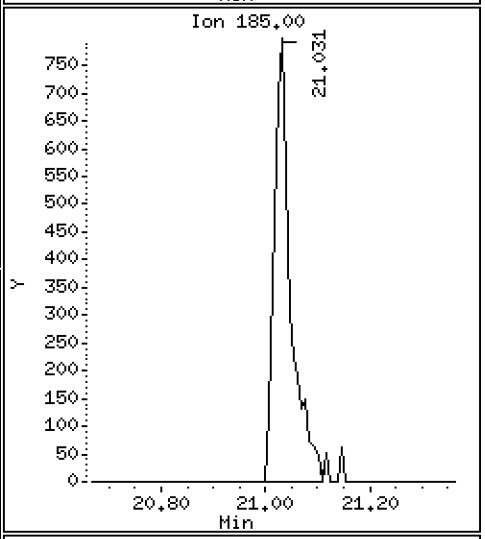
93 Benzidine

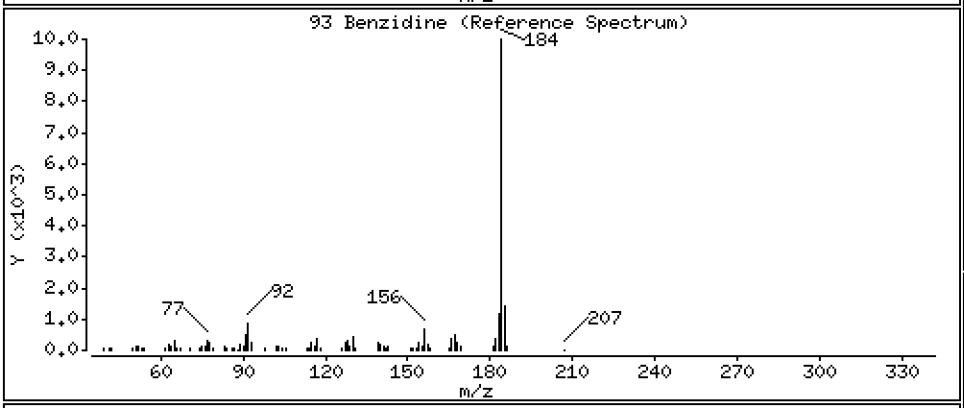
Concentration: 0.3471 ug/mL

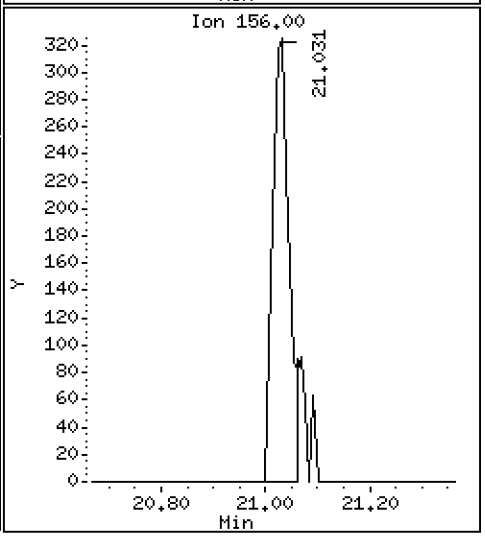


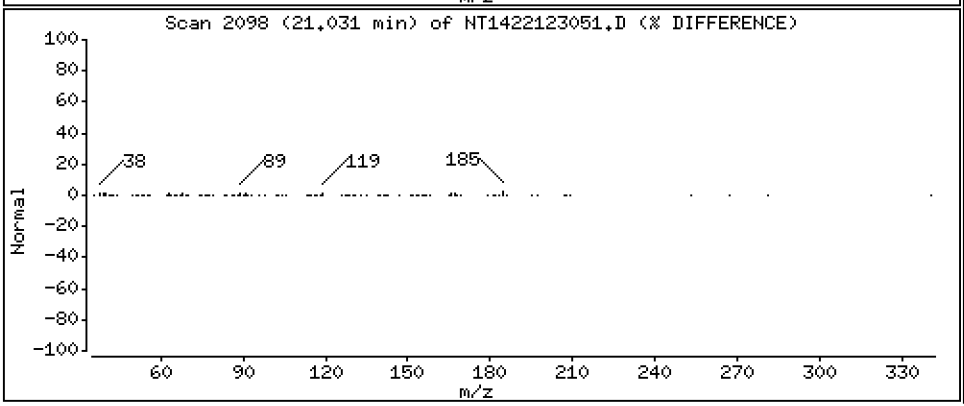












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

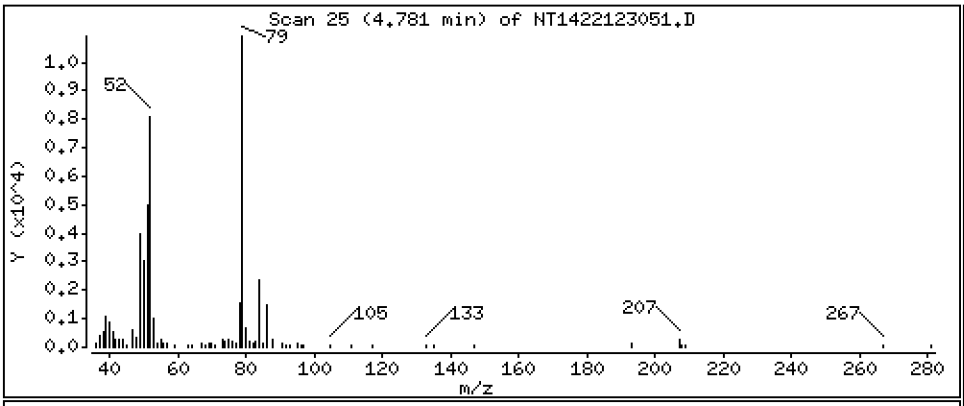
Operator: VTS

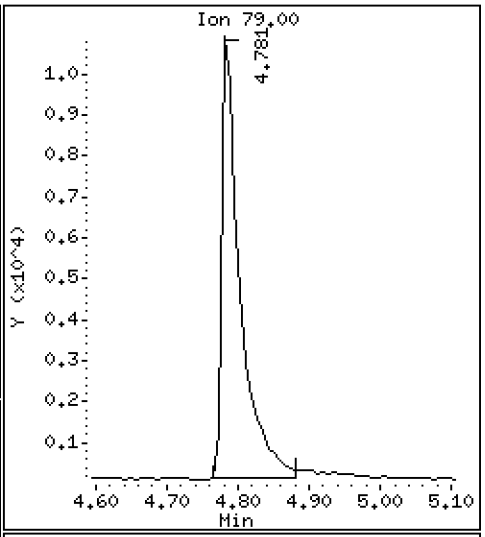
Column phase: ZB-5msi

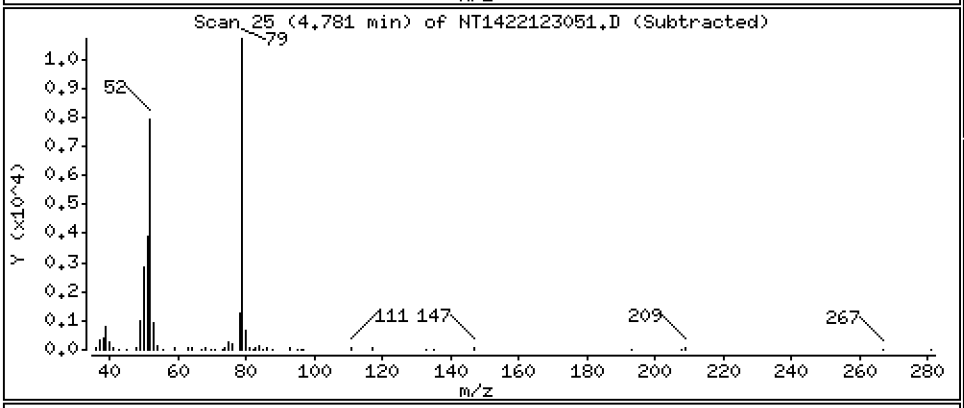
Column diameter: 0.25

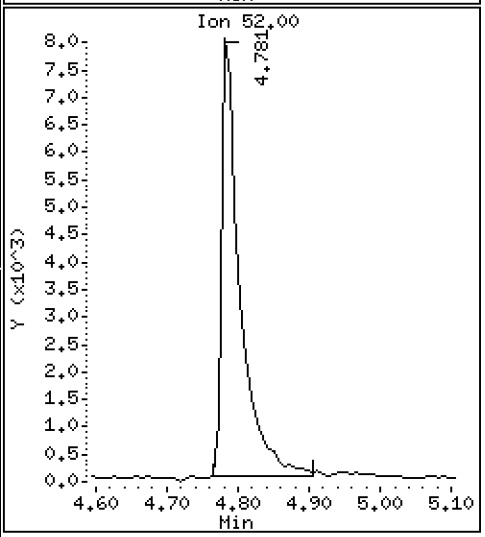
103 Pyridine

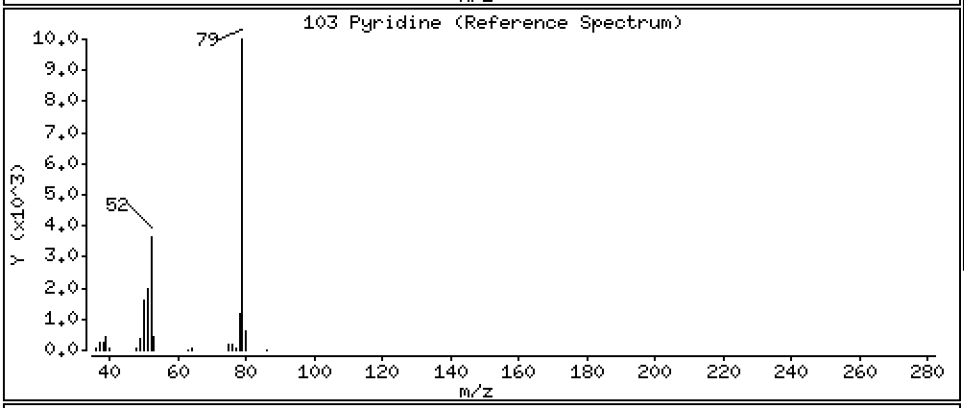
Concentration: 0.2428 ug/mL

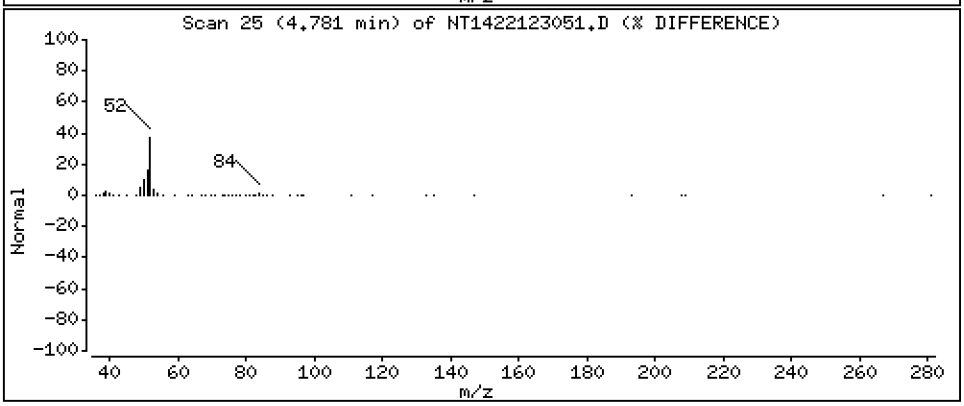












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

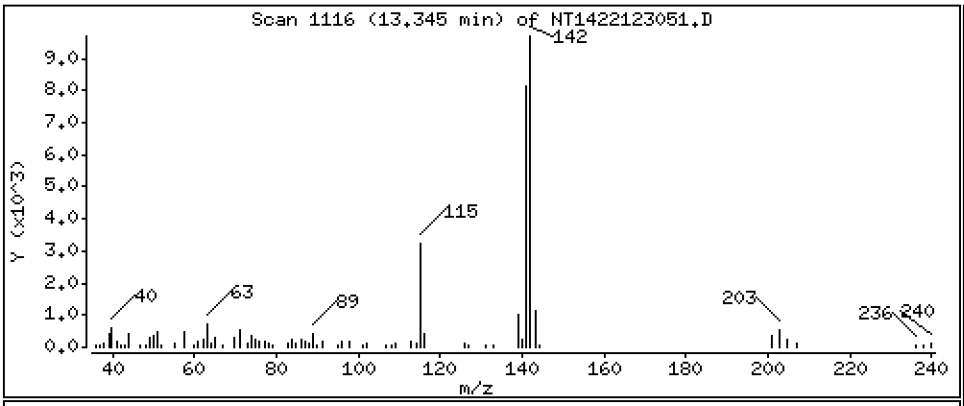
Operator: VTS

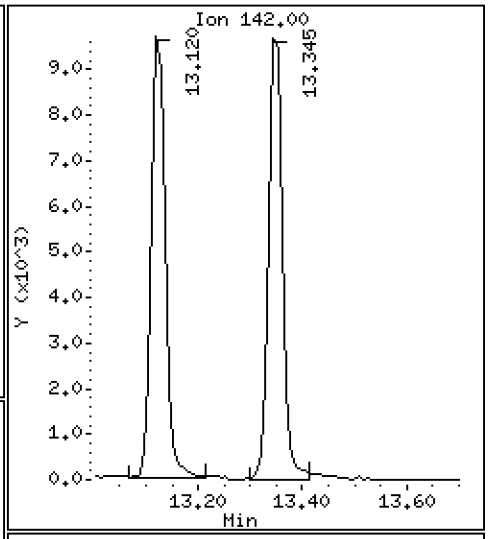
Column phase: ZB-5msi

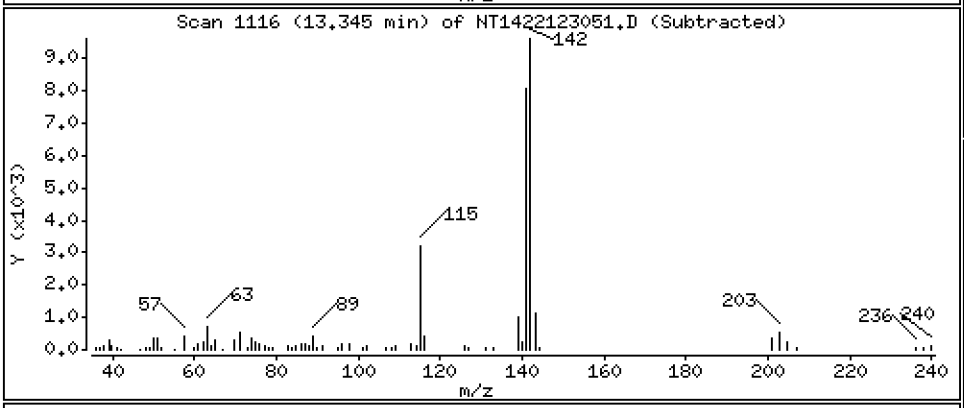
Column diameter: 0.25

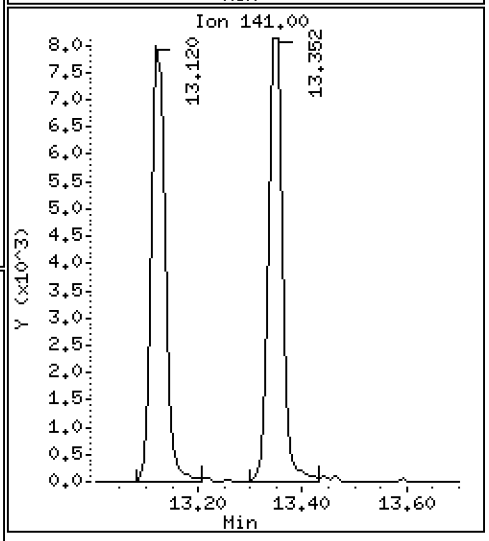
105 1-methylnaphthalene

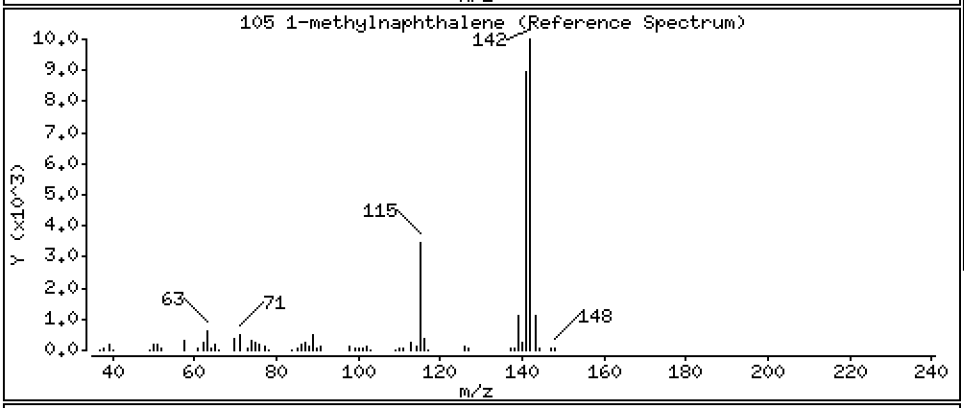
Concentration: 0.2317 ug/mL

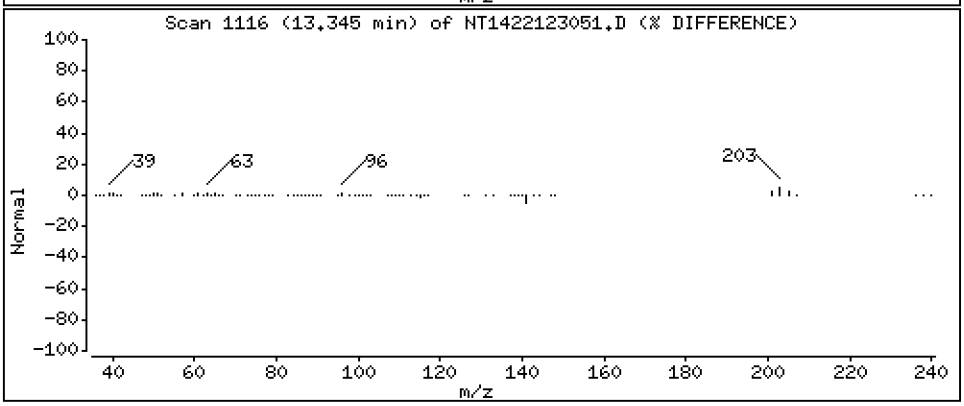












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

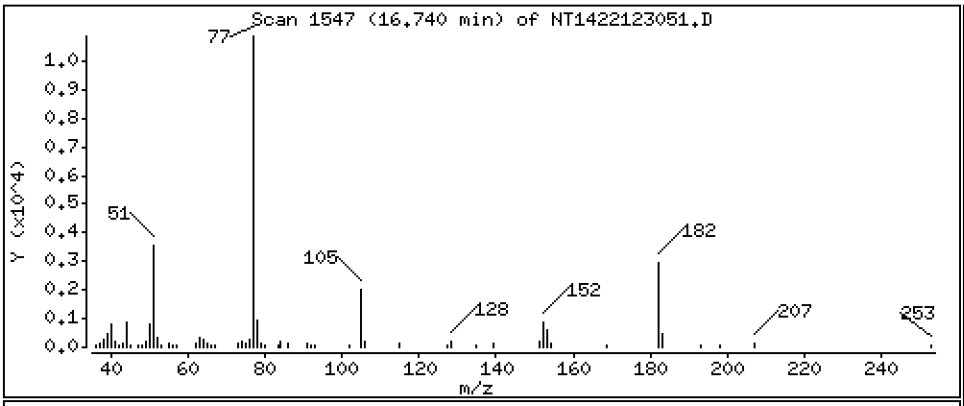
Operator: VTS

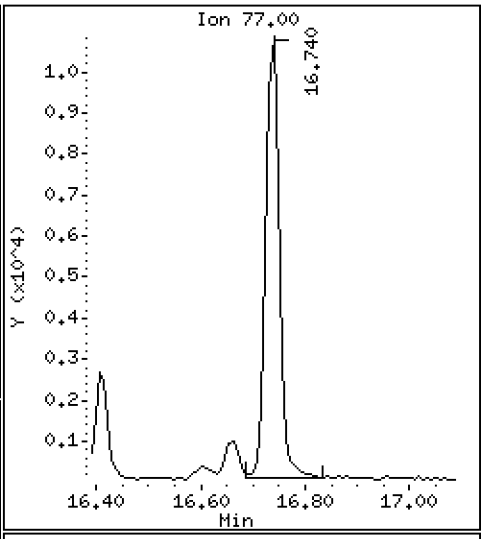
Column phase: ZB-5msi

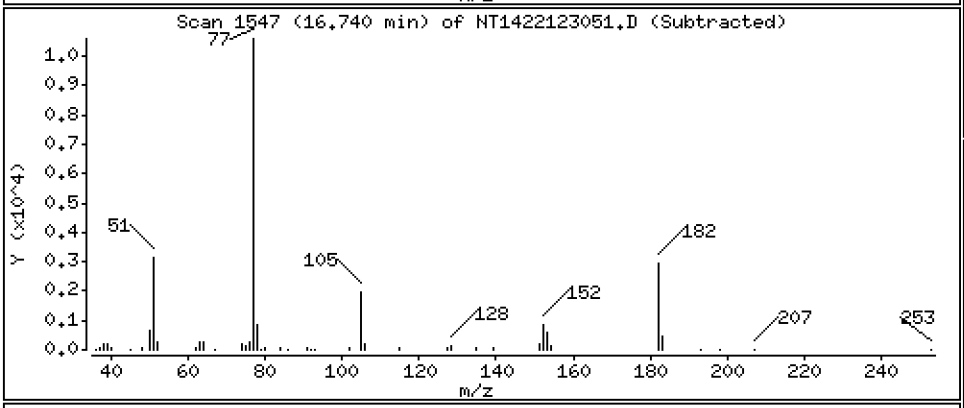
Column diameter: 0.25

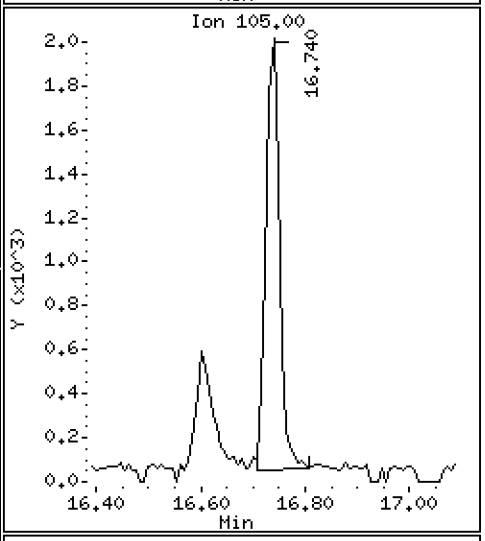
111 Azobenzene (1,2-DP-Hydrazine)

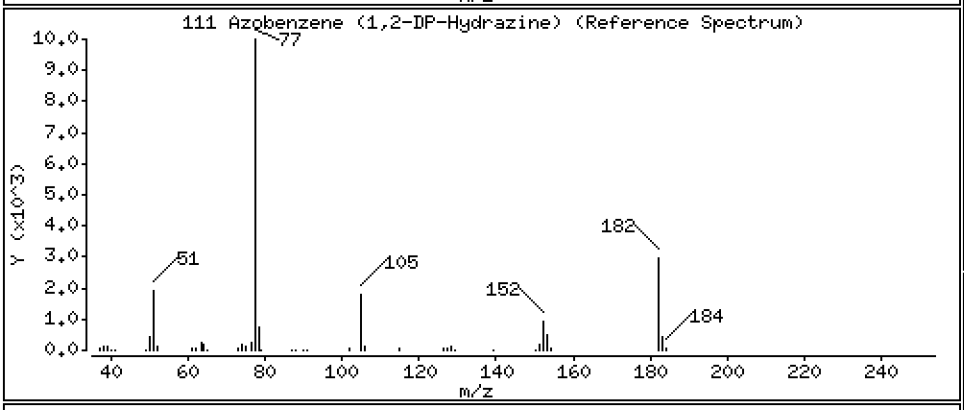
Concentration: 0.2322 ug/mL

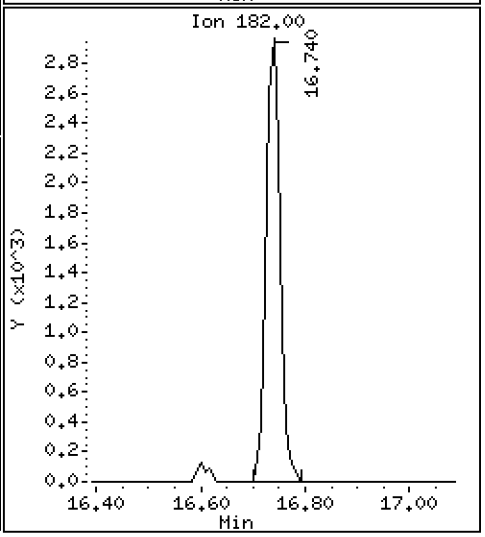


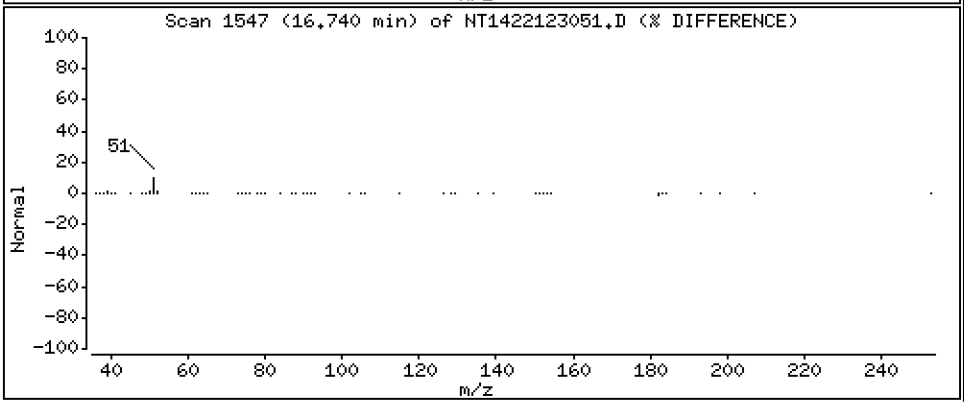












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

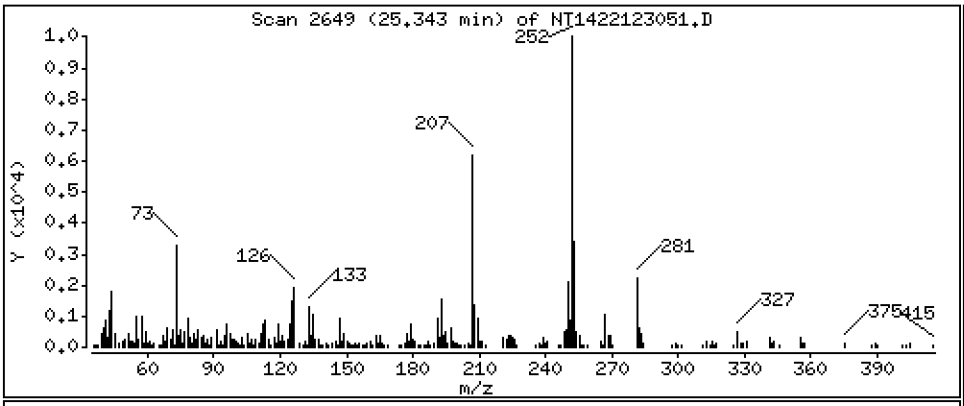
Operator: VTS

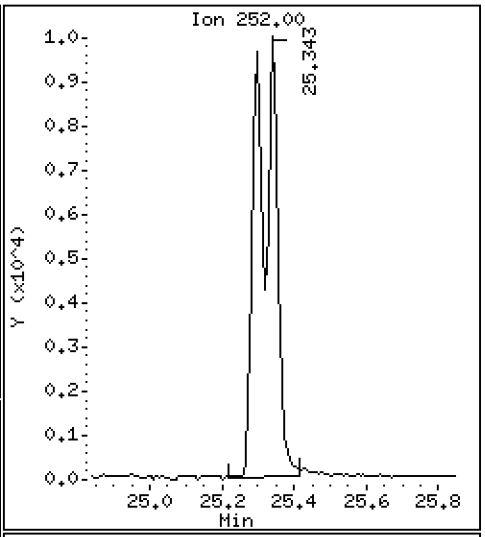
Column phase: ZB-5msi

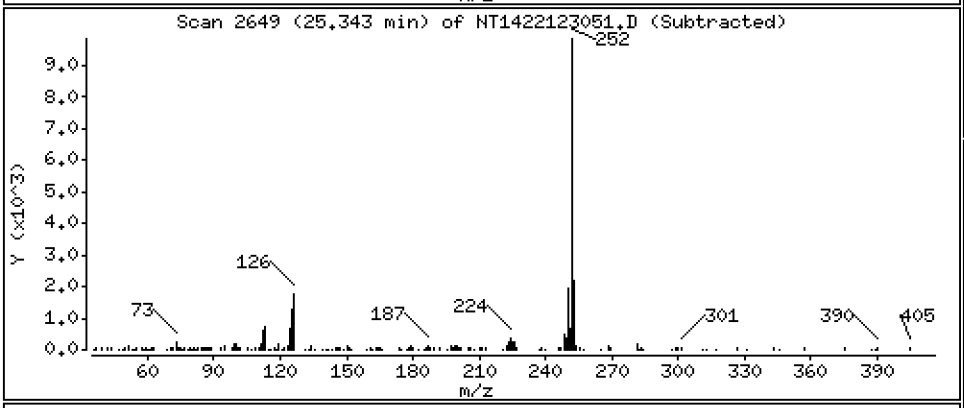
Column diameter: 0.25

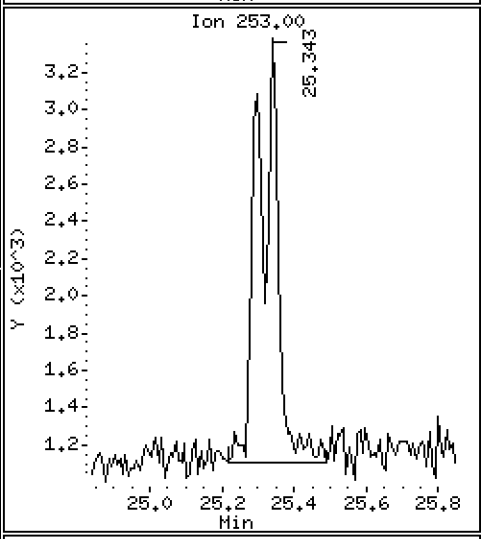
187 Total Benzofluoranthenes

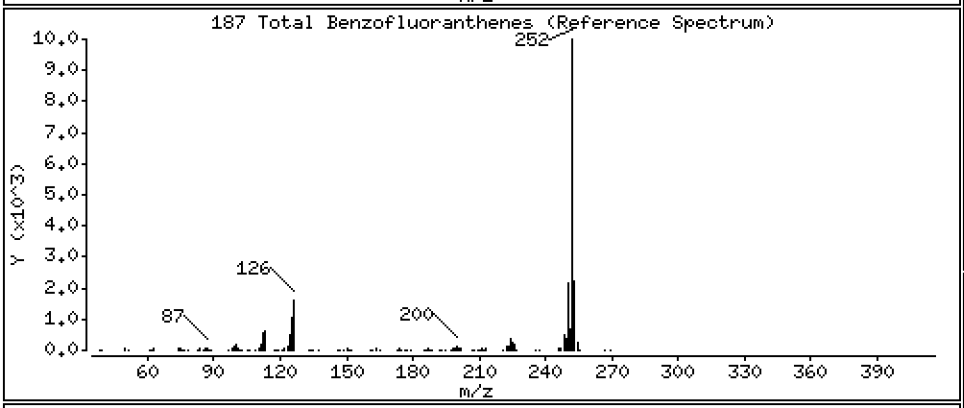
Concentration: 0.5087 ug/mL

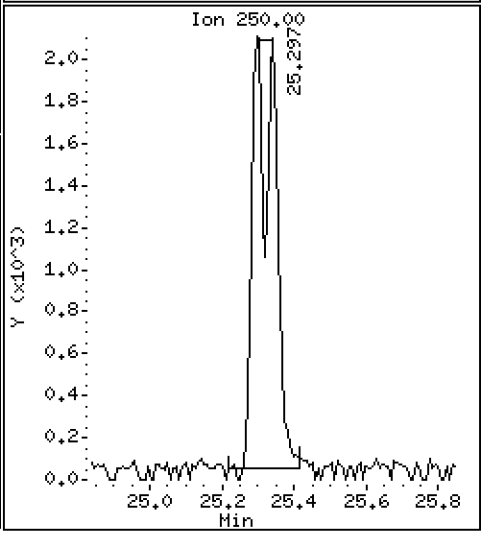


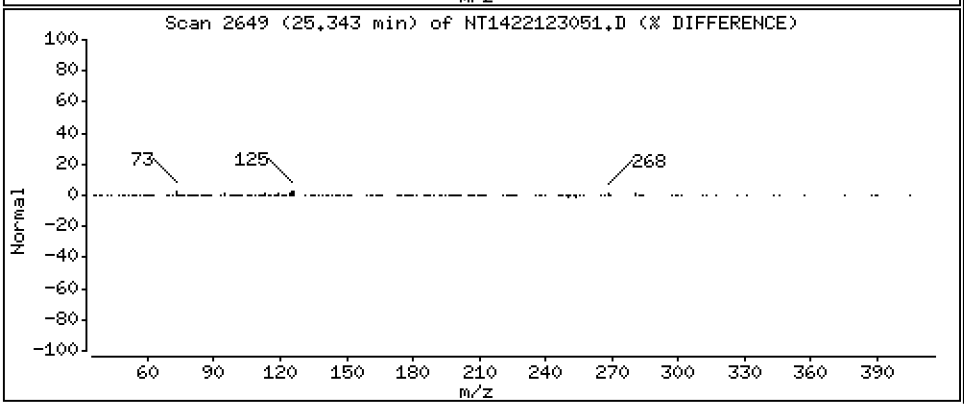












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

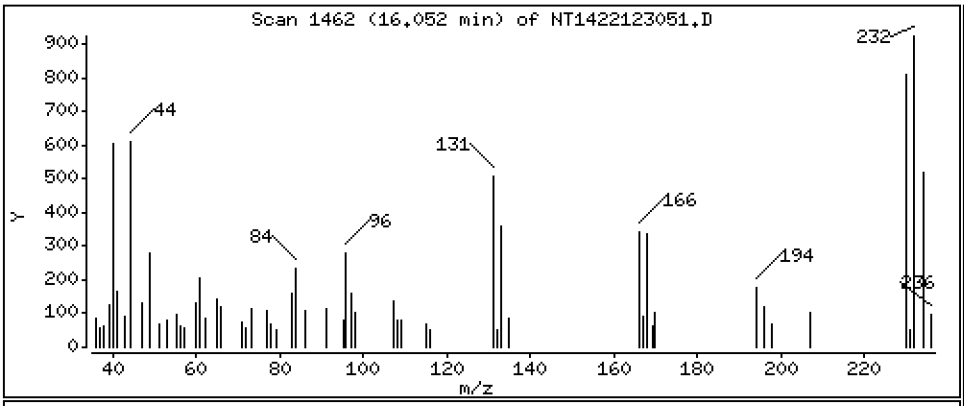
Operator: VTS

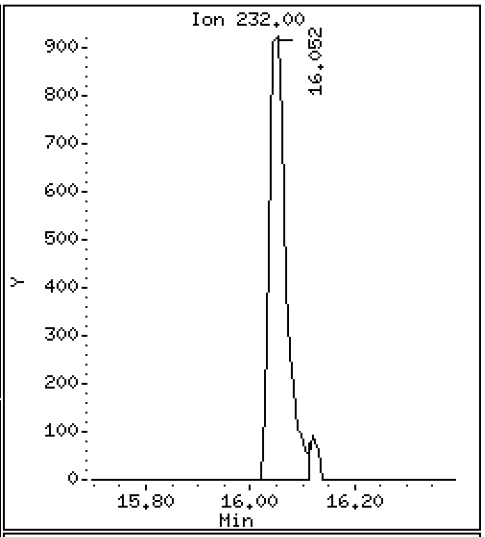
Column phase: ZB-5msi

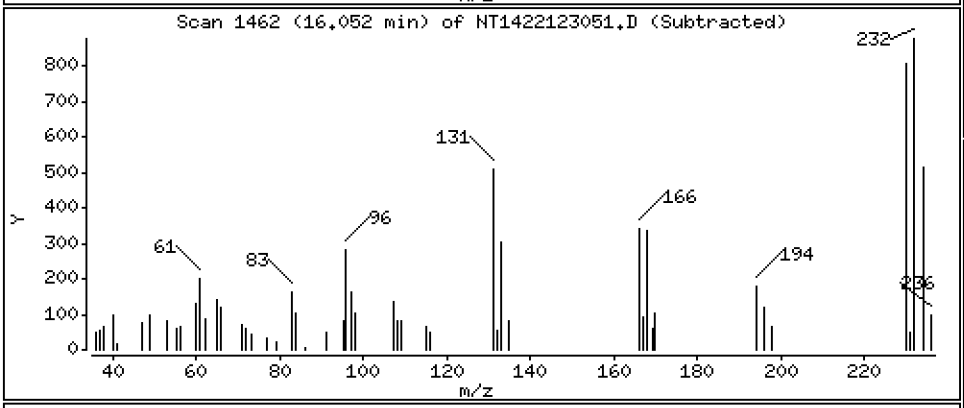
Column diameter: 0.25

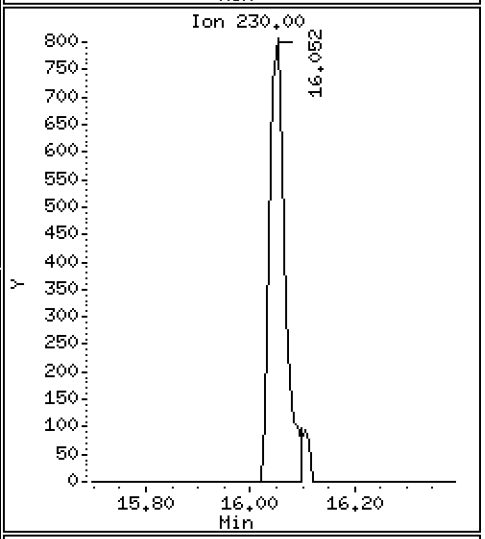
120 2,3,4,6-Tetrachlorophenol

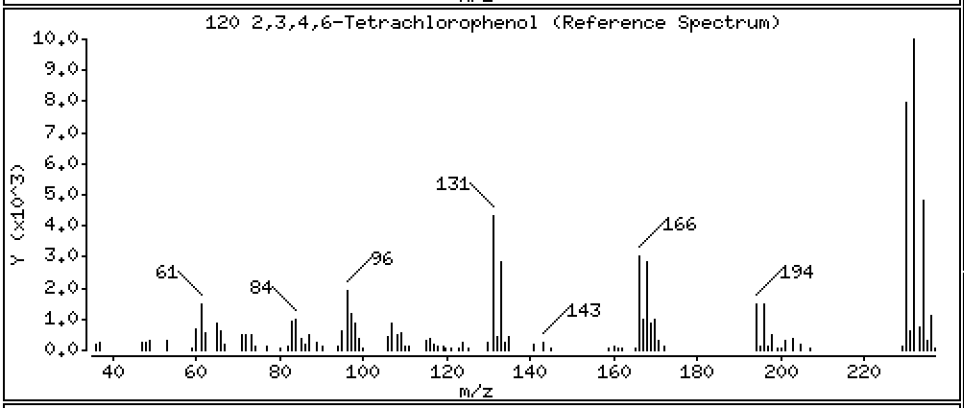
Concentration: 0.1326 ug/mL

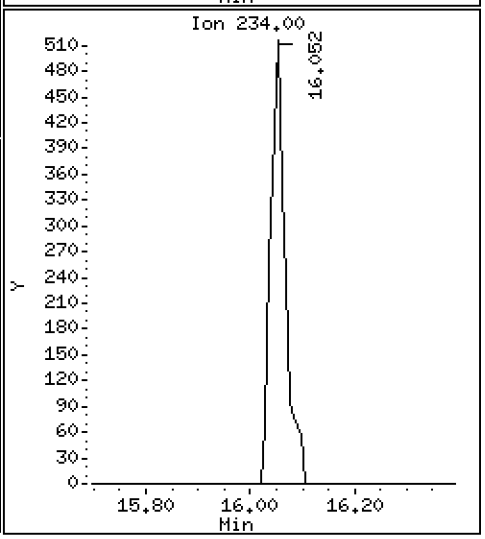


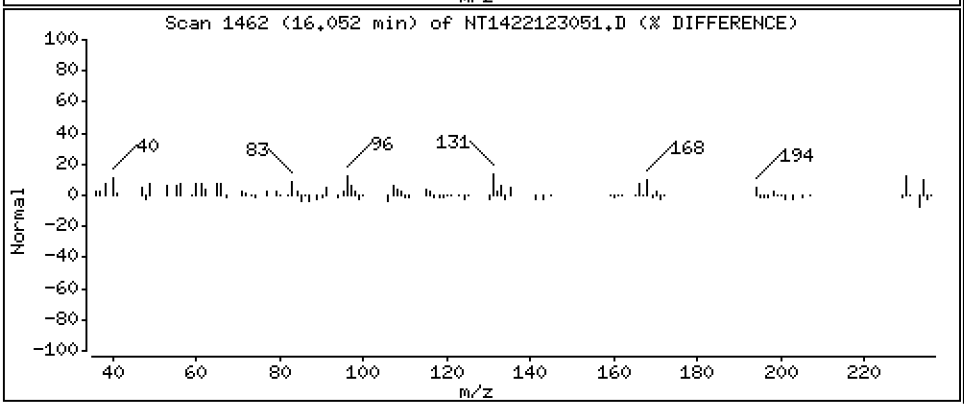












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	12842	0.34438	0.3444
$	2 Phenol-d5	99	8.519	8.519	(0.929)	14155	0.30716	0.3072
	3 Phenol	94	8.542	8.542	(0.932)	12014	0.22943	0.2294
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	12856	0.33217	0.3322
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	8623	0.23905	0.2390
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	10012	0.23554	0.2355
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	11073	0.24567	0.2457
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	116397	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	10619	0.24869	0.2487
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	6376	0.24103	0.2410
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	10186	0.24324	0.2432
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3783	0.16228	0.1623
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	2715	0.22362	0.2236(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	8908	0.23411	0.2341
	17 Hexachloroethane	117	10.162	10.162	(1.108)	2756	0.17549	0.1755
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	5117	0.22076	0.2208
	15 4-Methylphenol	108	9.937	9.937	(1.084)	8513	0.21208	0.2121
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.880)	7699	0.21407	0.2141
	19 Nitrobenzene	77	10.301	10.301	(0.882)	8051	0.22540	0.2254
	20 Isophorone	82	10.759	10.759	(0.922)	8947	0.19654	0.1965
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	4423	0.20275	0.2028
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	16985	0.45562	0.4556
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	8349	0.23576	0.2358
	24 Benzoic acid	105	11.139	11.201	(0.954)	3966	0.17478	0.1748(M)
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	12985	0.41323	0.4132
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	8229	0.24219	0.2422
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	425902	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.004)	24917	0.23773	0.2377
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	17541	0.40581	0.4058
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	3748	0.22233	0.2223
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.098)	11891	0.40100	0.4010
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	17149	0.22305	0.2231
	33 Hexachlorocyclopentadiene	237	13.600	13.592	(0.888)	352	0.02150	0.02150

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.747	(0.898)	6773	0.37464	0.3746
	35	2,4,5-Trichlorophenol	196	13.839	13.824	(0.904)	9005	0.43158	0.4316(M)
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	16254	0.22319	0.2232
	37	2-Chloronaphthalene	162	14.126	14.126	(0.923)	14693	0.23716	0.2372
	38	2-Nitroaniline	65	14.381	14.373	(0.939)	6470	0.39723	0.3972
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	13629	0.22312	0.2231
	40	Acenaphthylene	152	15.000	15.000	(0.980)	21309	0.22558	0.2256
	41	2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	4846	0.35154	0.3515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	216598	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	5647	0.33704	0.3370
	44	Acenaphthene	153	15.379	15.379	(1.005)	13777	0.23514	0.2351
	45	2,4-Dinitrophenol	184	15.472	15.441	(1.011)	62	0.00530	0.005296(M)
	46	Dibenzofuran	168	15.712	15.712	(1.026)	21128	0.24047	0.2405
	47	4-Nitrophenol	109	15.634	15.549	(1.021)	1904	0.23747	0.2375(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	5711	0.30195	0.3020
	50	Diethylphthalate	149	16.268	16.268	(1.063)	18907	0.22772	0.2277
	49	Fluorene	166	16.423	16.423	(1.073)	21251	0.22736	0.2274
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	9783	0.21379	0.2138
	52	4-Nitroaniline	138	16.523	16.508	(1.079)	6307	0.31284	0.3128
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	2946	0.20197	0.2020
	54	N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	14446	0.24221	0.2422
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	2148	0.21169	0.2117(M)
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	5136	0.22742	0.2274
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	5677	0.22906	0.2291
	58	Pentachlorophenol	266	18.114	18.098	(0.987)	823	0.07669	0.07669(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	347572	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	21884	0.24149	0.2415
	61	Anthracene	178	18.508	18.508	(1.008)	18882	0.21826	0.2183
	62	Carbazole	167	18.841	18.833	(1.026)	18183	0.21741	0.2174
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	17991	0.19057	0.1906
	64	Fluoranthene	202	20.798	20.798	(0.889)	21465	0.23077	0.2308
	65	Pyrene	202	21.224	21.224	(0.907)	21631	0.22118	0.2212
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	15087	0.21757	0.2176
	67	Butylbenzylphthalate	149	22.408	22.416	(0.957)	7672	0.20800	0.2080
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	21137	0.24154	0.2415
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	288877	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	18651	0.69622	0.6962
	71	Chrysene	228	23.446	23.454	(1.002)	19952	0.24137	0.2414
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	10512	0.21854	0.2185
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	433122	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	25154	0.24194	0.2419
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	19147	0.24594	0.2459
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	20195	0.25486	0.2549
	76	Benzo(a)pyrene	252	25.978	25.978	(0.996)	15635	0.24158	0.2416
*	77	Perylene-d12	264	26.094	26.094	(1.000)	247727	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.854	(1.106)	10497	0.14268	0.1427
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	9359	0.14970	0.1497
	80	Benzo(g,h,i)perylene	276	29.685	29.669	(1.138)	7577	0.12294	0.1229
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	12751	0.49649	0.4965
	91	Aniline	93	8.611	8.619	(0.939)	24033	0.47136	0.4714
	93	Benzidine	184	21.030	21.015	(0.898)	12279	0.34708	0.3471
	103	Pyridine	79	4.780	4.757	(0.521)	19811	0.24276	0.2428
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	17117	0.23171	0.2317
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	18676	0.23219	0.2322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123051.D
Lab Smp Id: SKL0355-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 14:29

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.021	1.015	0.0061	4-Nitrophenol

RRT check based on Ccal File: NT1422123049.D

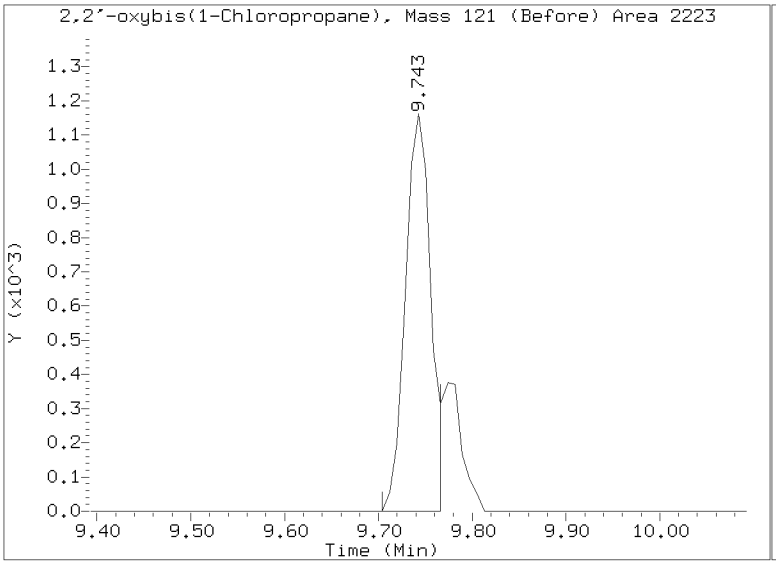
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

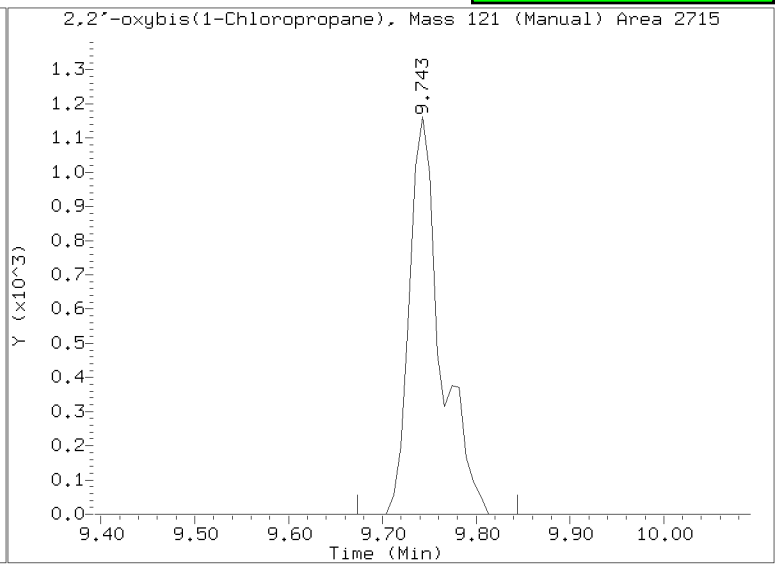
* Only compounds listed in the work order have been verified by the analyst *

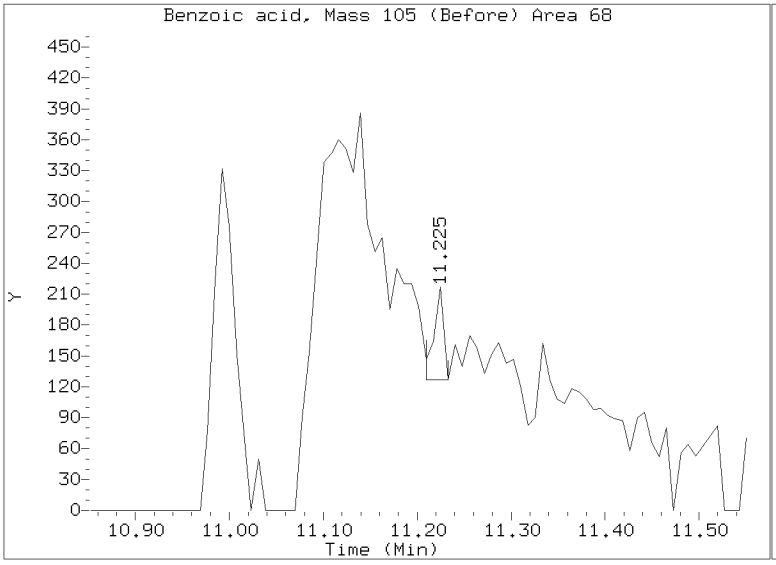
Quant Ion Manual Peak Adjustment Report

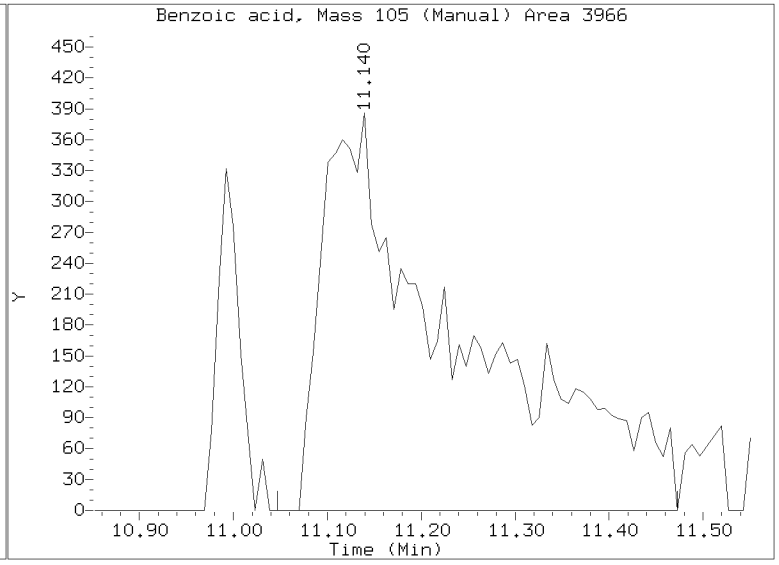
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

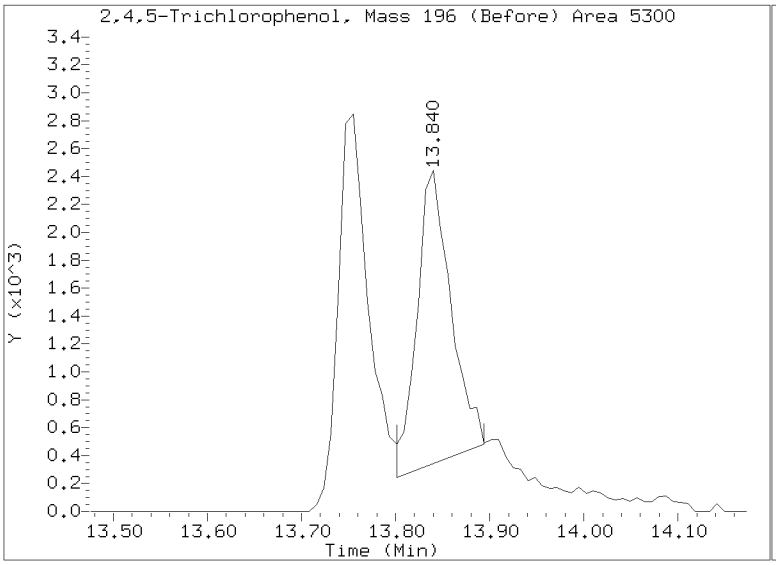
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

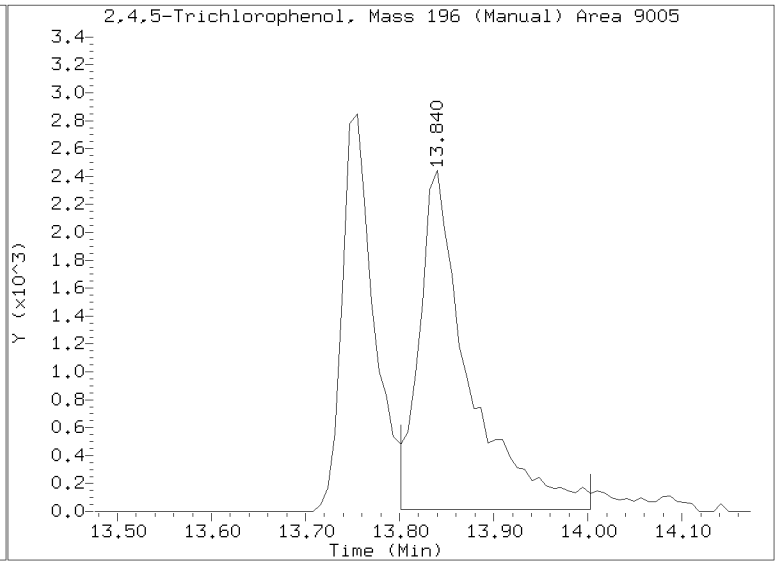












Quant Ion Manual Peak Adjustment Report

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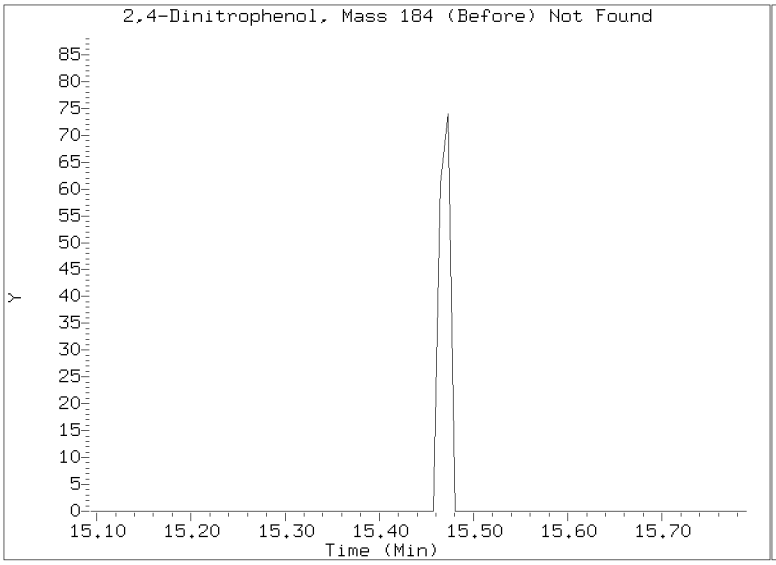
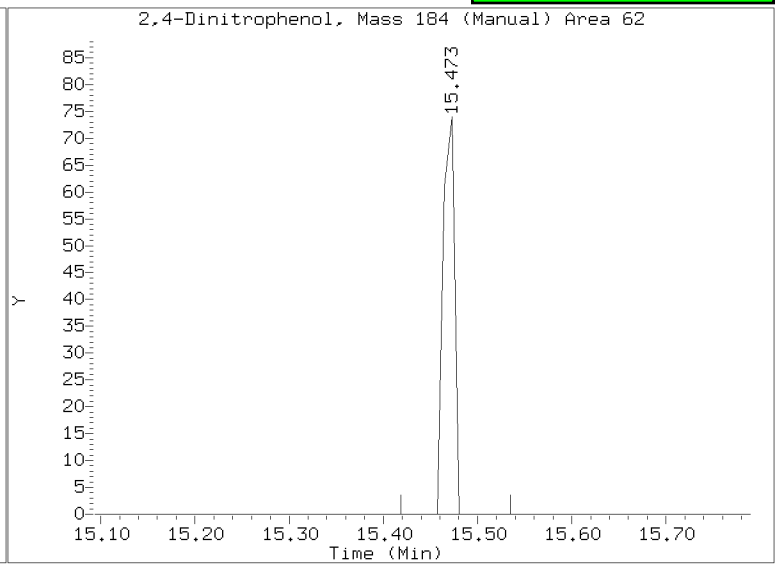
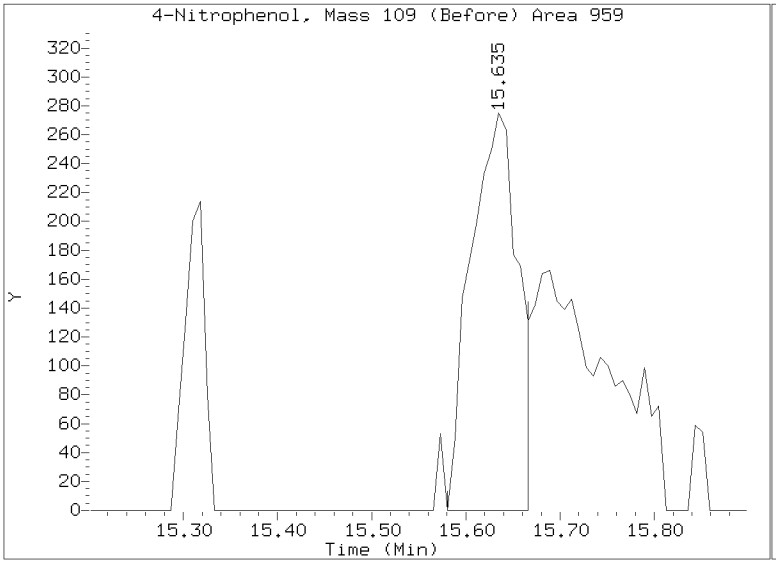
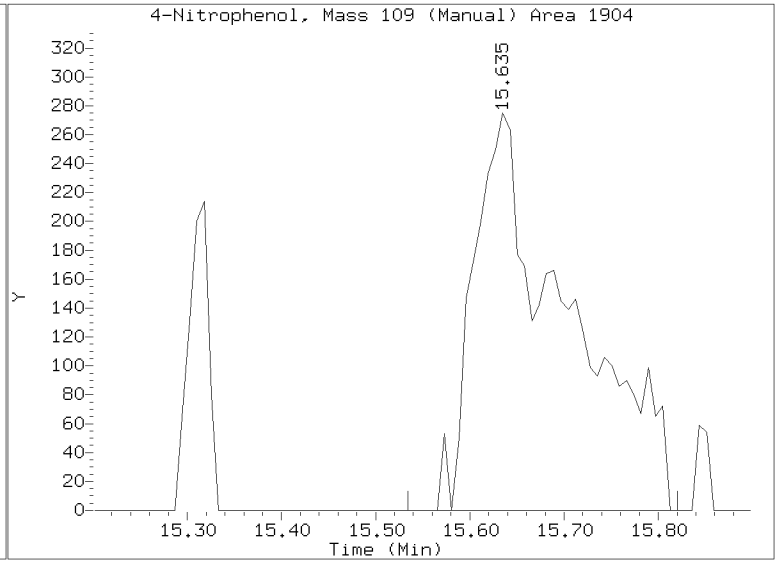
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

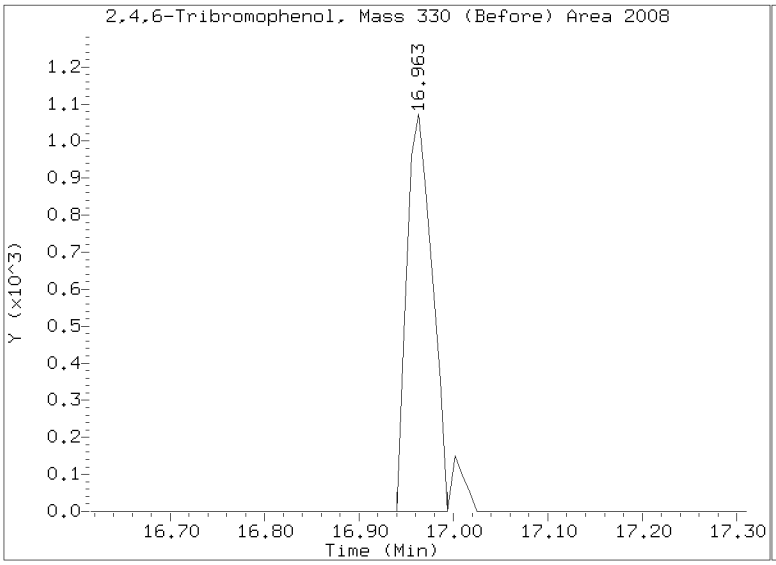
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

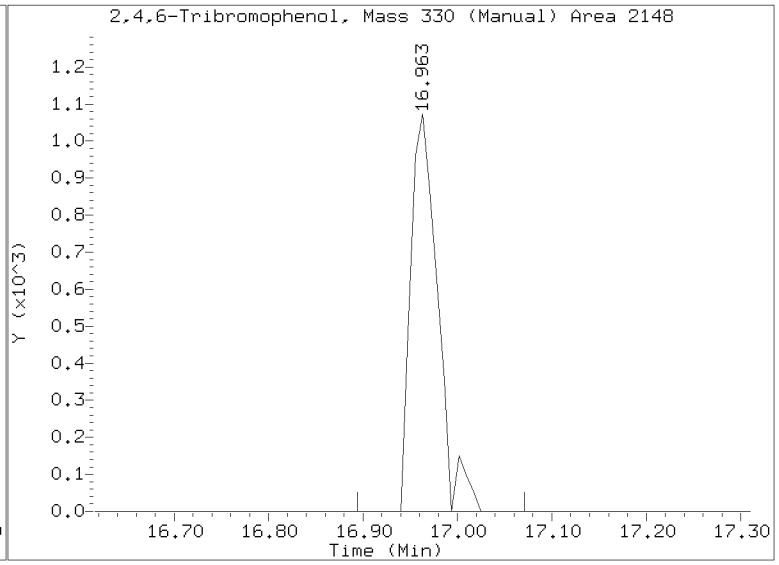












Quant Ion Manual Peak Adjustment Report

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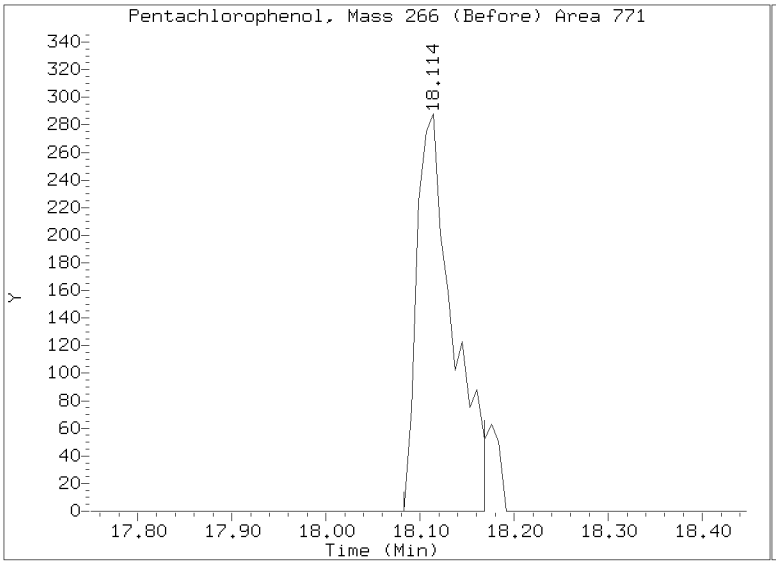
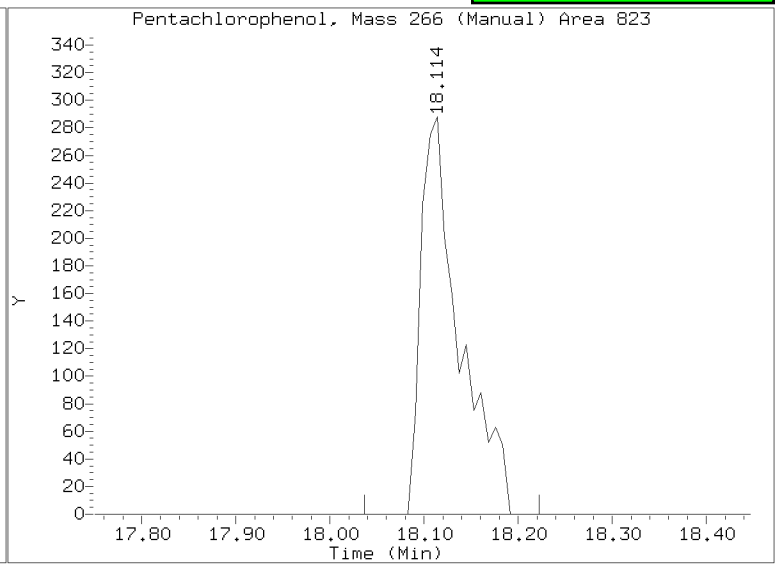
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-3.7	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.0	50.00
2-Chlorophenol	0.50000	0.5	1.1	50.00
1,3-Dichlorobenzene	0.50000	0.5	-1.0	50.00
1,4-Dichlorobenzene	0.50000	0.5	-1.5	50.00
1,2-Dichlorobenzene	0.50000	0.5	-3.2	50.00
Benzyl Alcohol	0.50000	0.4	-24.2	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-7.7	50.00
2-Methylphenol	0.50000	0.5	-3.3	50.00
Hexachloroethane	0.50000	0.4	-25.4	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	-6.9	50.00
4-Methylphenol	0.50000	0.5	-5.1	50.00
Nitrobenzene	0.50000	0.5	-7.2	50.00
Isophorone	0.50000	0.4	-13.7	50.00
2-Nitrophenol	0.50000	0.5	-8.8	50.00
2,4-Dimethylphenol	1.0000	1.0	-1.2	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-3.2	50.00
2,4-Dichlorophenol	1.0000	1.0	-0.8	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-3.7	50.00
Naphthalene	0.50000	0.5	-3.1	50.00
Benzoic acid	2.0000	0.3	-83.5	50.00
4-Chloroaniline	1.0000	0.9	-13.0	50.00
Hexachlorobutadiene	0.50000	0.5	-5.8	50.00
4-Chloro-3-Methylphenol	1.0000	1.0	-4.8	50.00
2-Methylnaphthalene	0.50000	0.5	-6.5	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-89.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-11.0	50.00
2,4,5-Trichlorophenol	1.0000	0.9	-10.1	50.00
2-Chloronaphthalene	0.50000	0.5	-2.4	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

2-Nitroaniline	1.0000	0.9	-8.0	50.00
Acenaphthylene	0.50000	0.5	6.4	50.00
Dimethylphthalate	0.50000	0.5	-6.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-14.9	50.00
Acenaphthene	0.50000	0.5	-0.7	50.00
3-Nitroaniline	1.0000	0.8	-20.0	50.00
2,4-Dinitrophenol	2.0000	0.1	-92.8	50.00
Dibenzofuran	0.50000	0.5	-1.5	50.00
4-Nitrophenol	1.0000	0.6	-35.2	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.1	50.00
Fluorene	0.50000	0.5	-3.3	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	-8.3	50.00
Diethyl phthalate	0.50000	0.5	7.5	50.00
4-Nitroaniline	1.0000	0.8	-20.7	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.8	-62.2	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-1.9	50.00
Hexachlorobenzene	0.50000	0.5	-2.0	50.00
Pentachlorophenol	1.0000	0.2	-77.5	50.00
Phenanthrene	0.50000	0.5	-2.3	50.00
Anthracene	0.50000	0.5	-6.3	50.00
Carbazole	0.50000	0.5	-7.8	50.00
Di-n-Butylphthalate	0.50000	0.4	-14.3	50.00
Fluoranthene	0.50000	0.5	-7.1	50.00
Pyrene	0.50000	0.5	-6.4	50.00
Butylbenzylphthalate	0.50000	0.4	-11.3	50.00
Benzo(a)anthracene	0.50000	0.5	-3.0	50.00
3,3'-Dichlorobenzidine	1.5000	1.5	-1.4	50.00
Chrysene	0.50000	0.5	-2.0	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	-5.9	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.4	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV2
Sequence: SKL0355
Standard ID: K011106

Benzofluoranthenes, Total	1.0000	1.0	2.2	50.00
Benzo(a)pyrene	0.50000	0.5	0.3	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-35.3	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-34.1	50.00
Benzo(g,h,i)perylene	0.50000	0.3	-46.5	50.00
1-Methylnaphthalene	0.50000	0.5	-4.7	50.00
2-Fluorophenol	0.75000	0.711	-5.2	50.00
Phenol-d5	0.75000	0.658	-12.3	50.00
2-Chlorophenol-d4	0.75000	0.686	-8.5	50.00
1,2-Dichlorobenzene-d4	0.50000	0.471	-5.9	50.00
Nitrobenzene-d5	0.50000	0.460	-8.0	50.00
2-Fluorobiphenyl	0.50000	0.474	-5.1	50.00
2,4,6-Tribromophenol	0.75000	0.536	-28.6	50.00
p-Terphenyl-d14	0.50000	0.454	-9.2	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

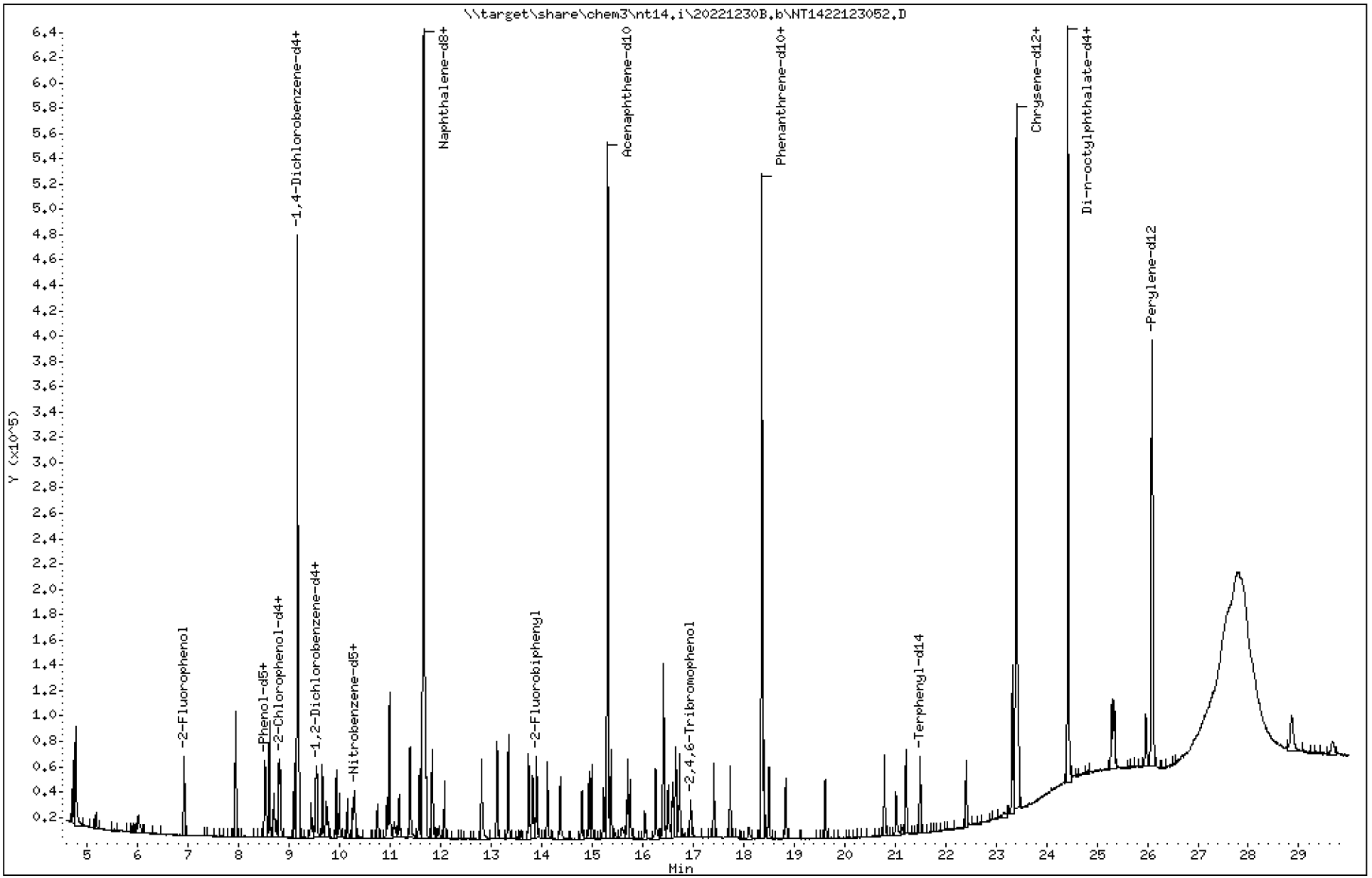
Instrument: nt14.i

Sample Info: SKL0356-LCV2

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2077 of 5449

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

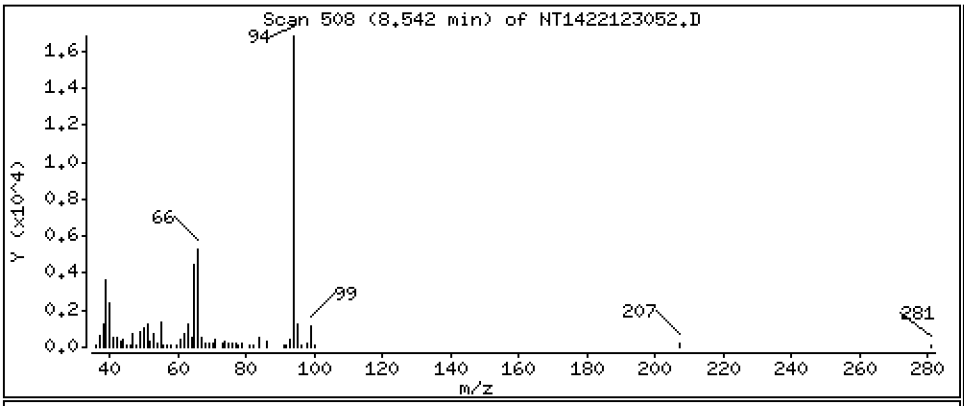
Operator: VTS

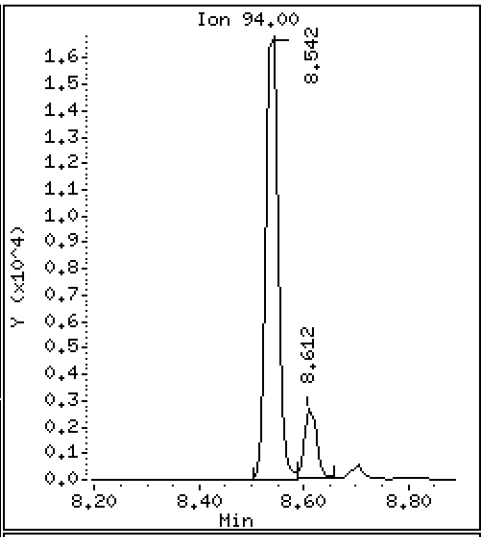
Column phase: ZB-5msi

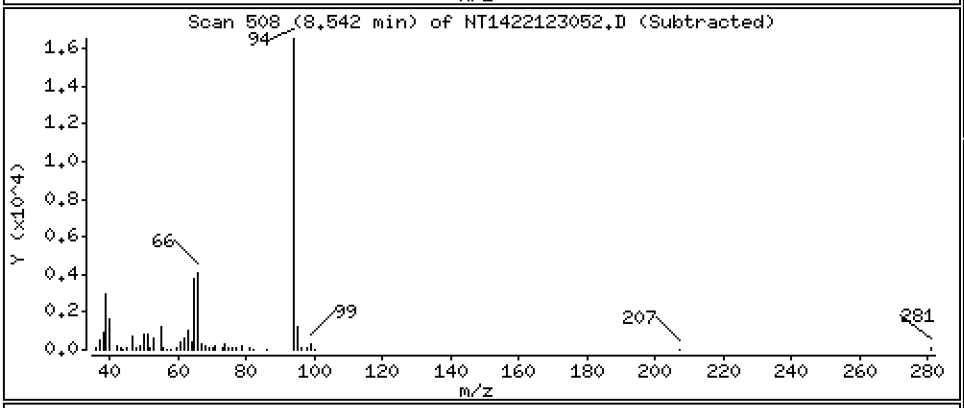
Column diameter: 0.25

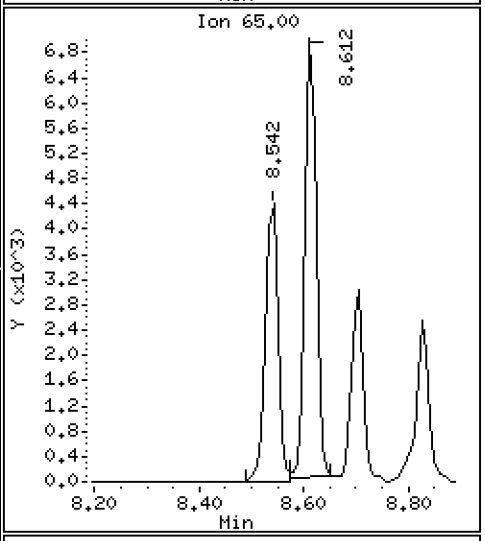
3 Phenol

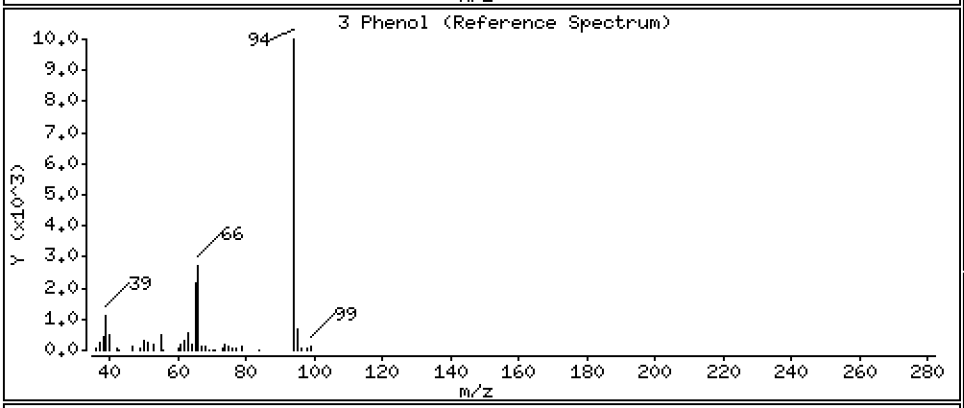
Concentration: 0.4814 ug/mL

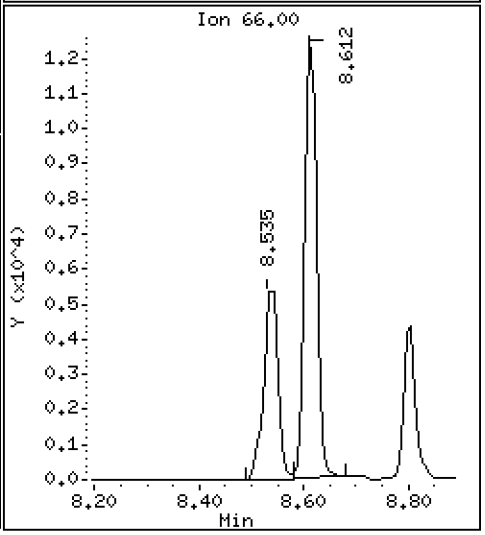


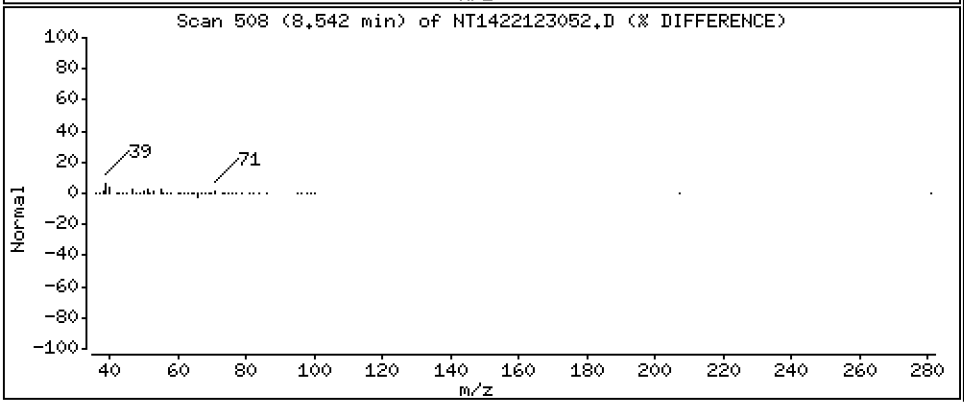












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

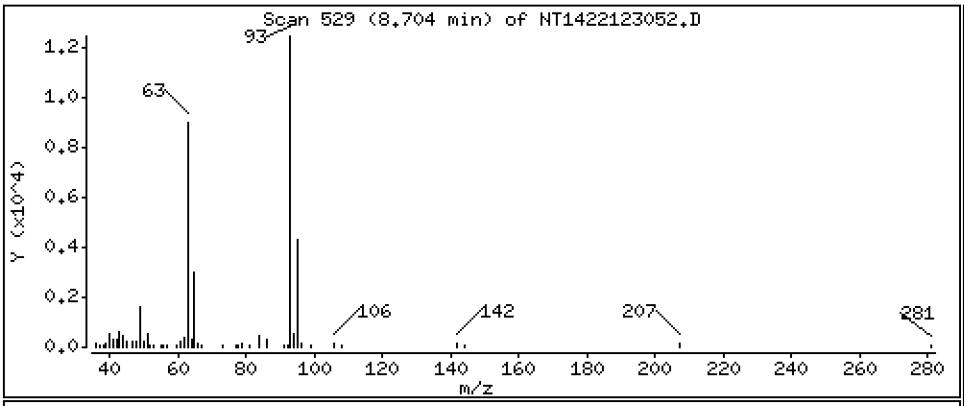
Operator: VTS

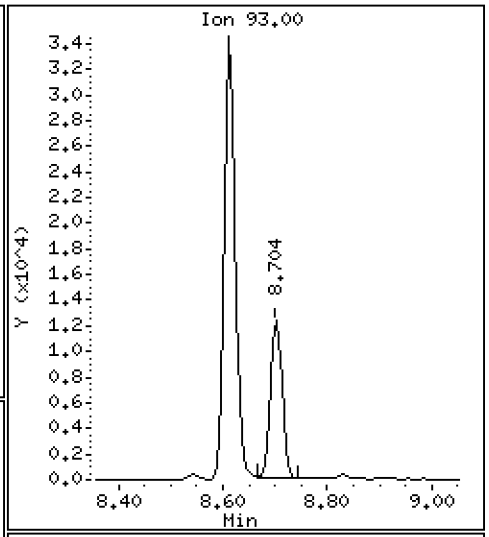
Column phase: ZB-5msi

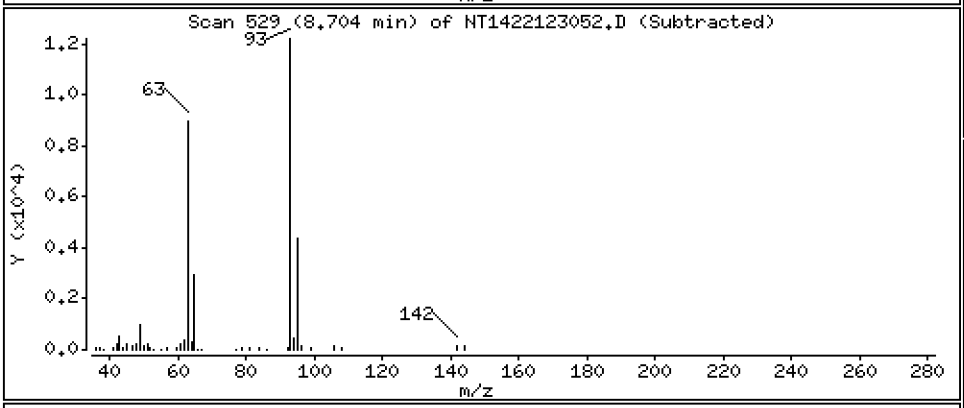
Column diameter: 0.25

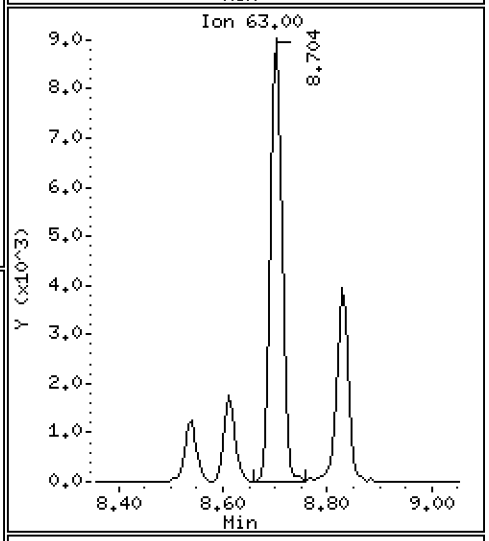
4 Bis(2-Chloroethyl)ether

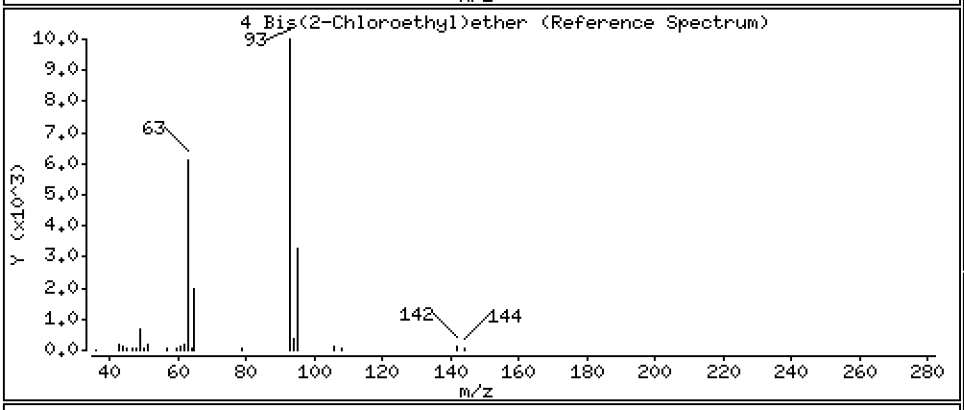
Concentration: 0.4852 ug/mL

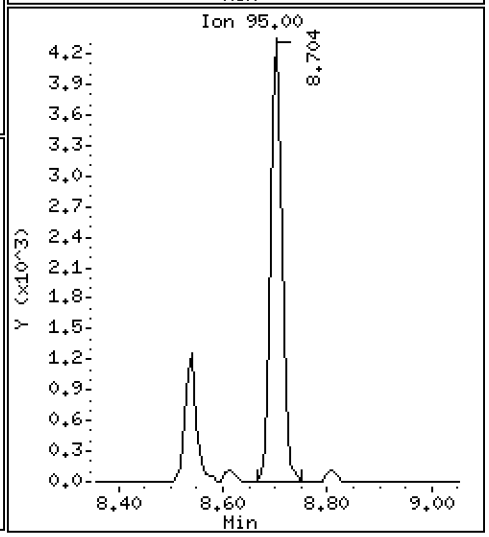


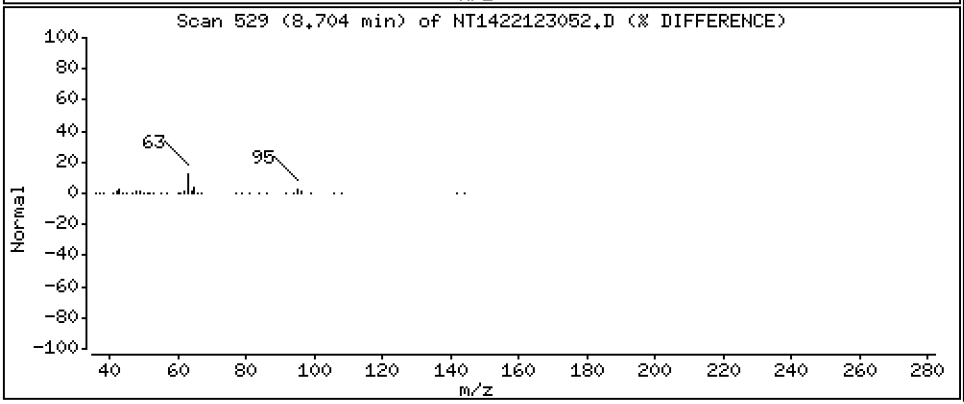












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

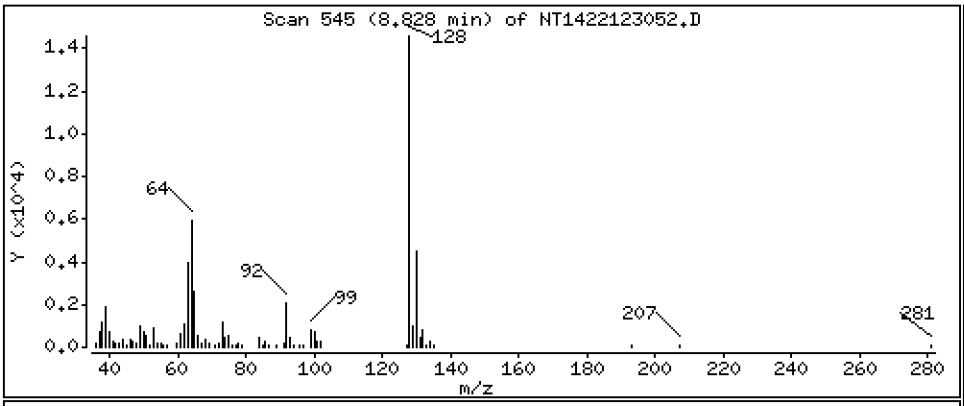
Operator: VTS

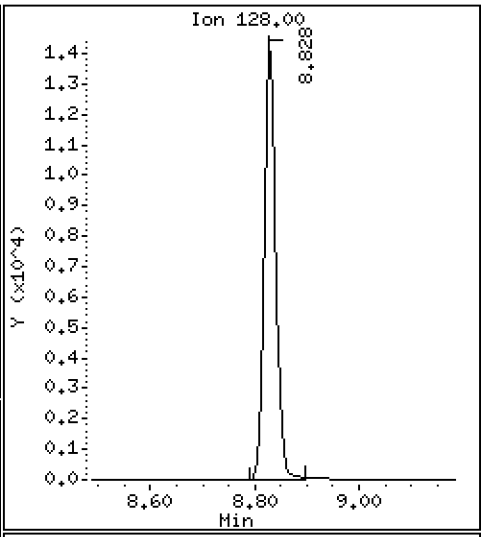
Column phase: ZB-5msi

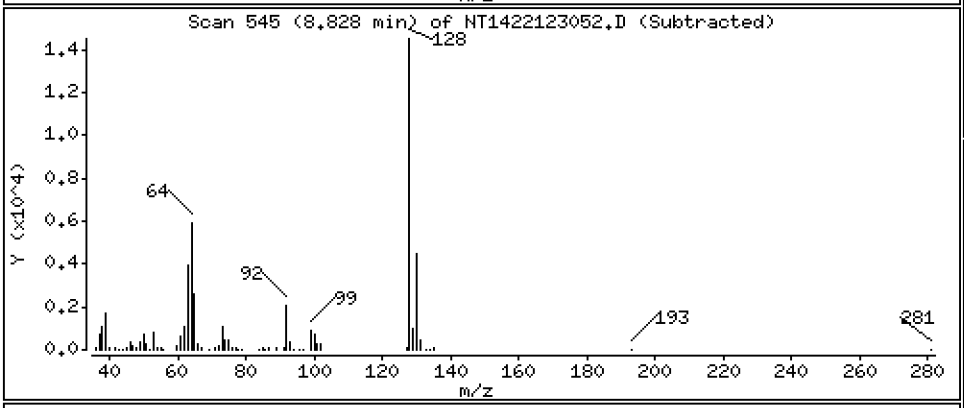
Column diameter: 0.25

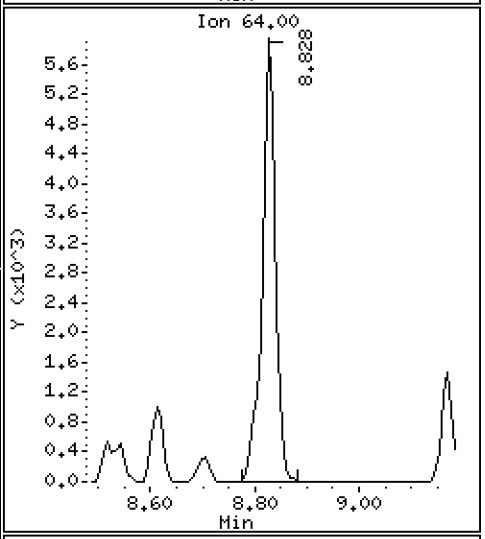
6 2-Chlorophenol

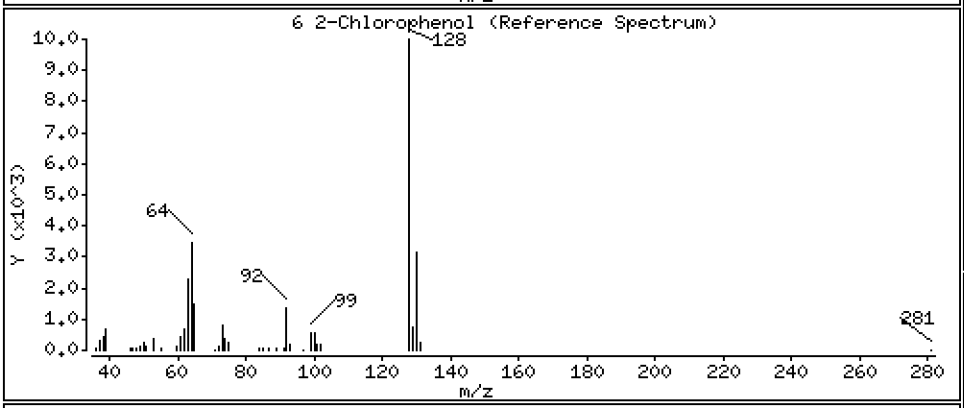
Concentration: 0.5057 ug/mL

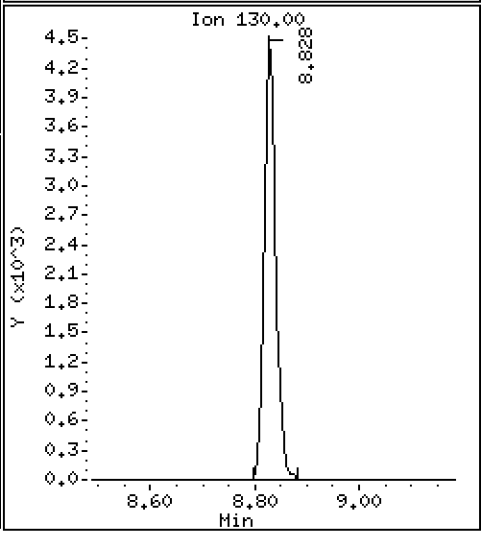


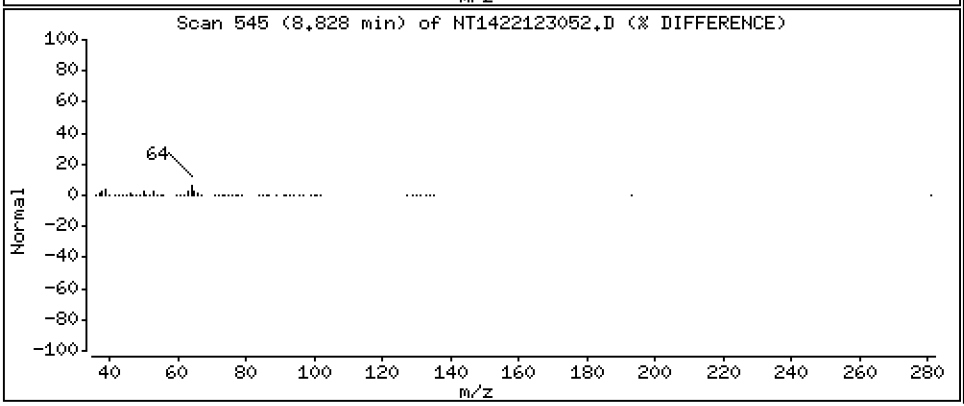












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

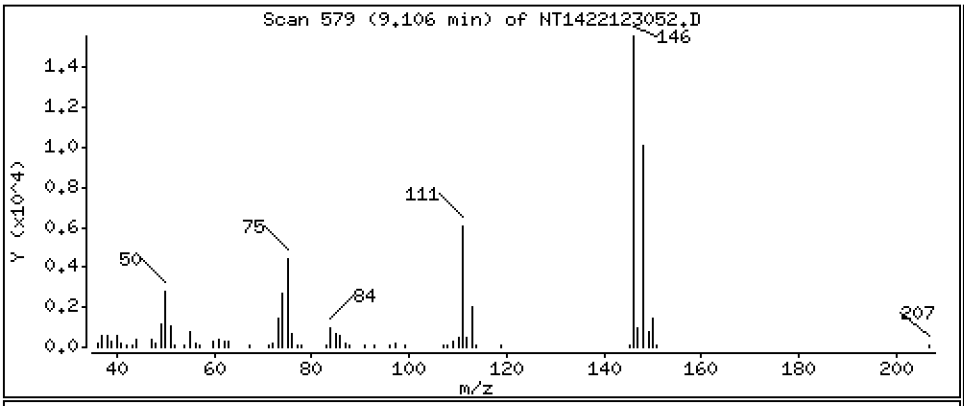
Operator: VTS

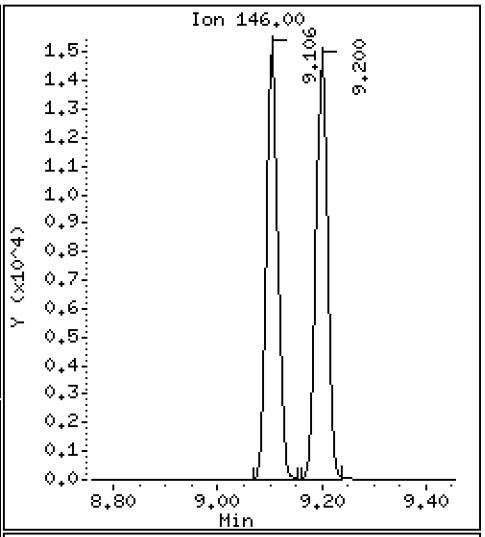
Column phase: ZB-5msi

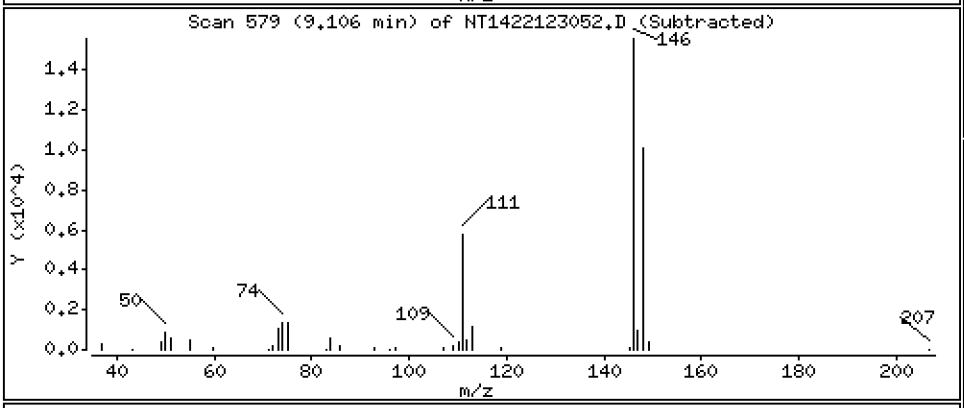
Column diameter: 0.25

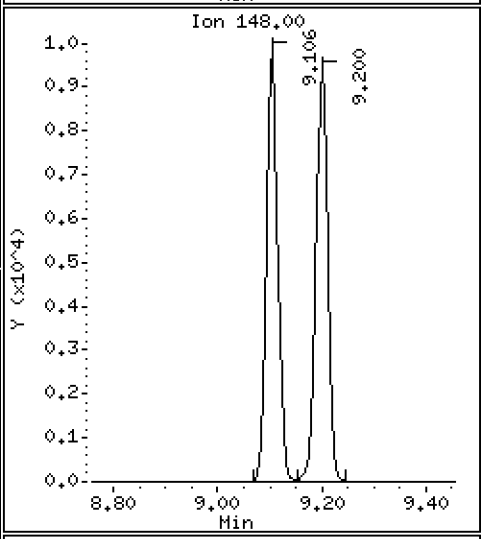
7 1,3-Dichlorobenzene

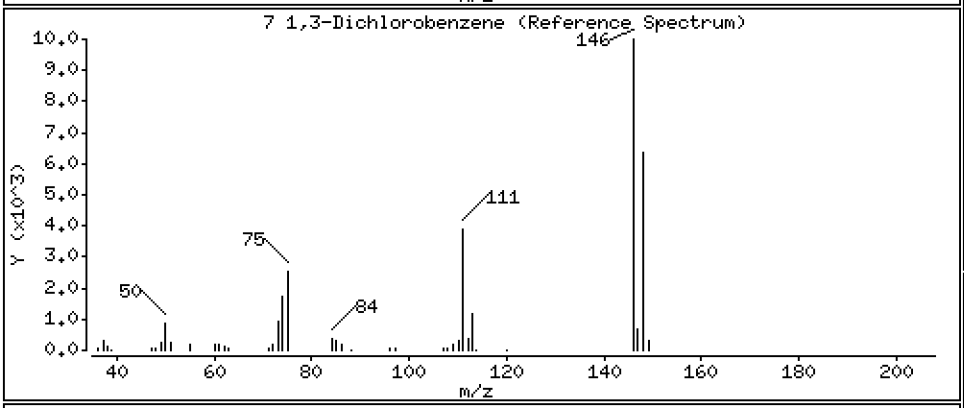
Concentration: 0.4948 ug/mL

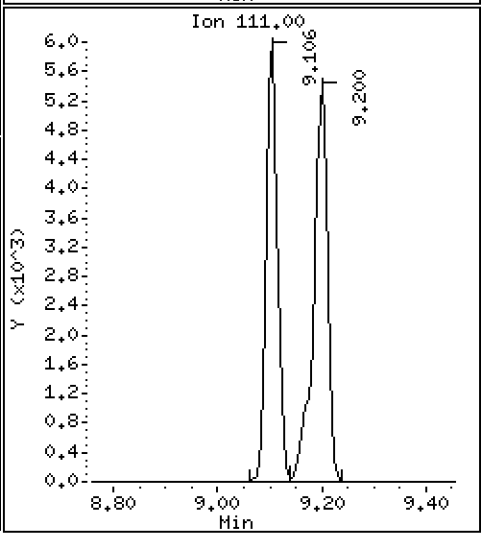


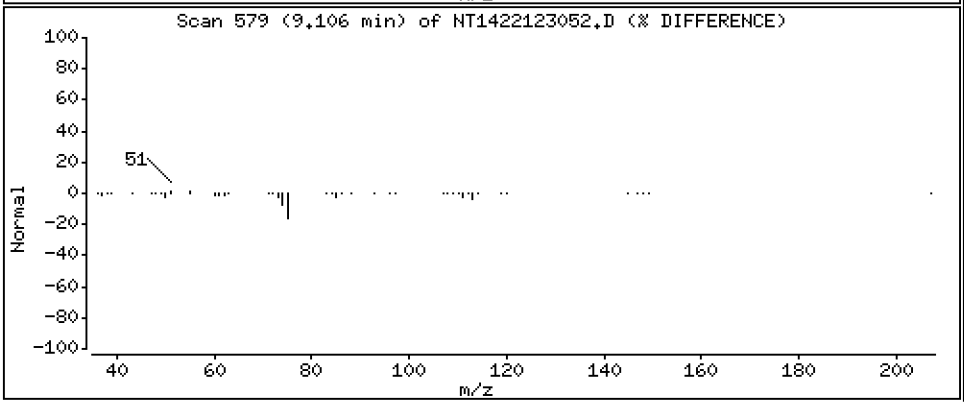












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

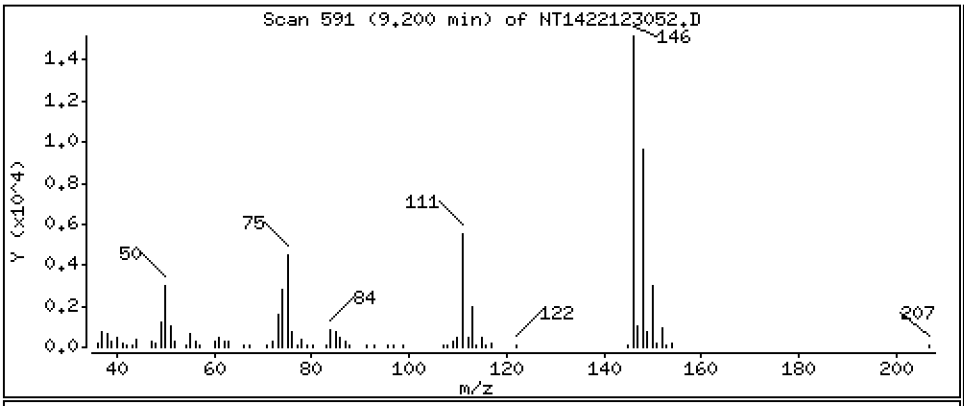
Operator: VTS

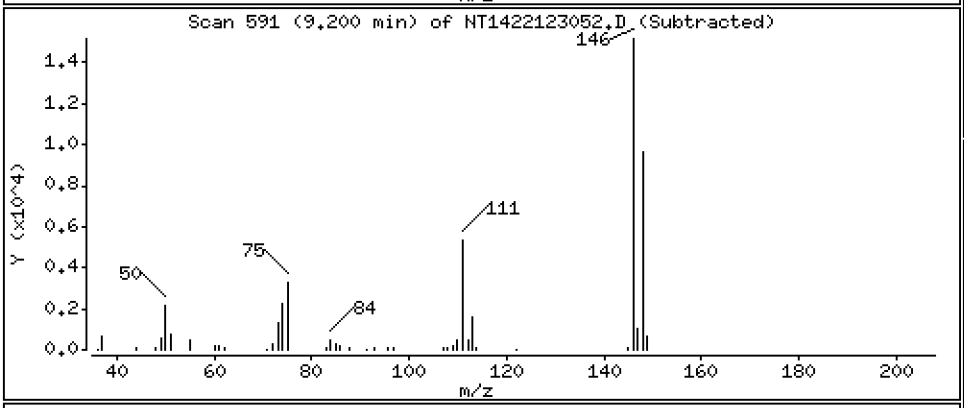
Column phase: ZB-5msi

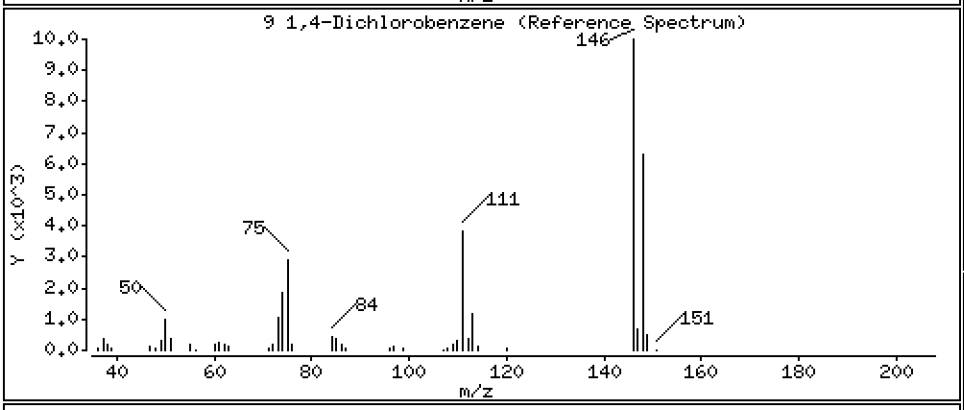
Column diameter: 0.25

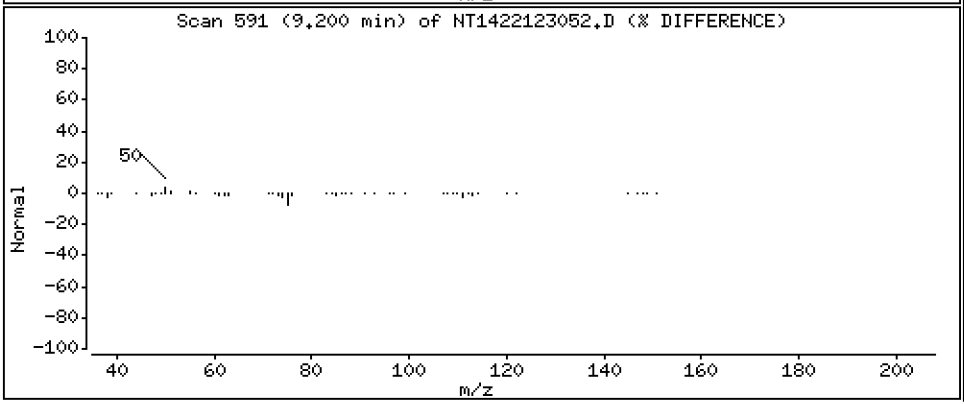
9 1,4-Dichlorobenzene

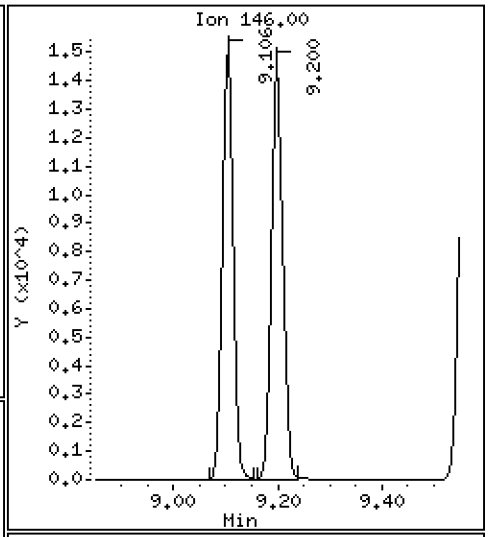
Concentration: 0.4924 ug/mL

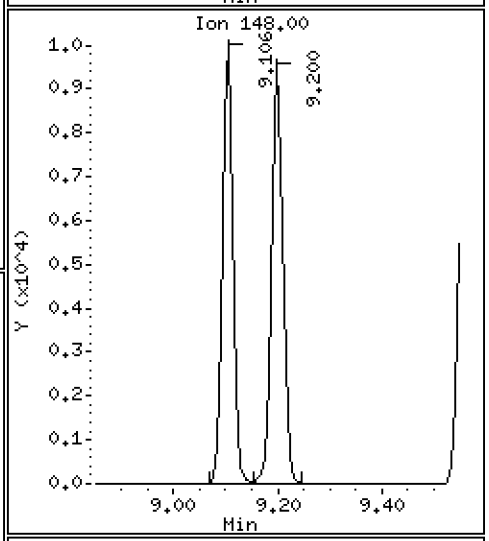


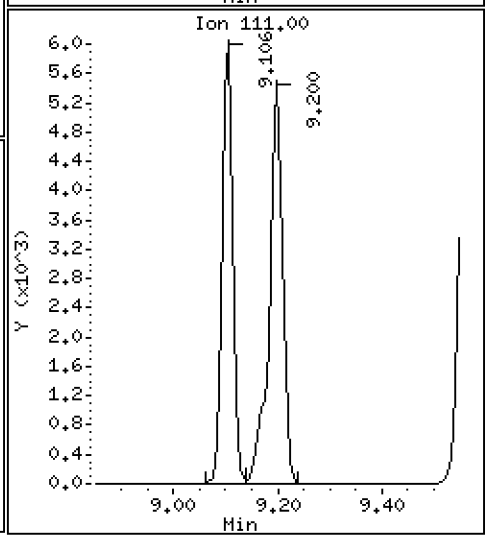












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

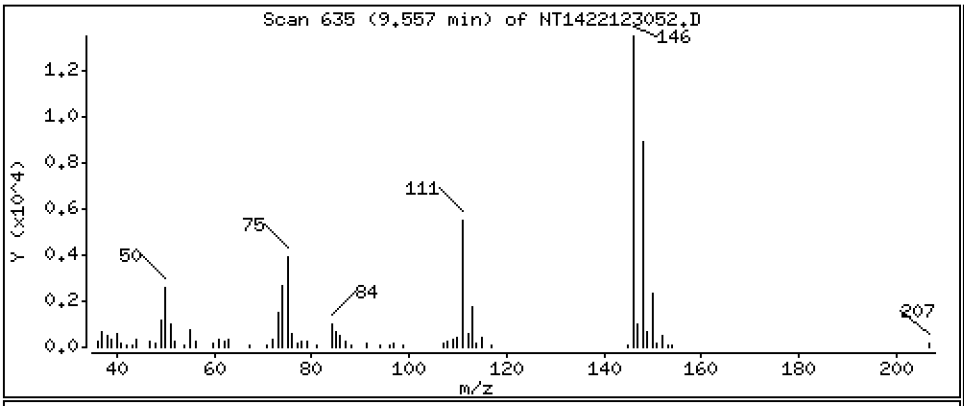
Operator: VTS

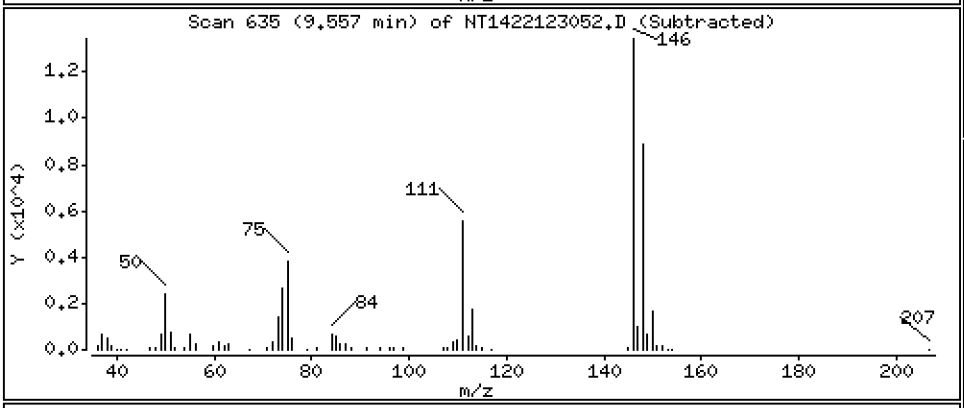
Column phase: ZB-5msi

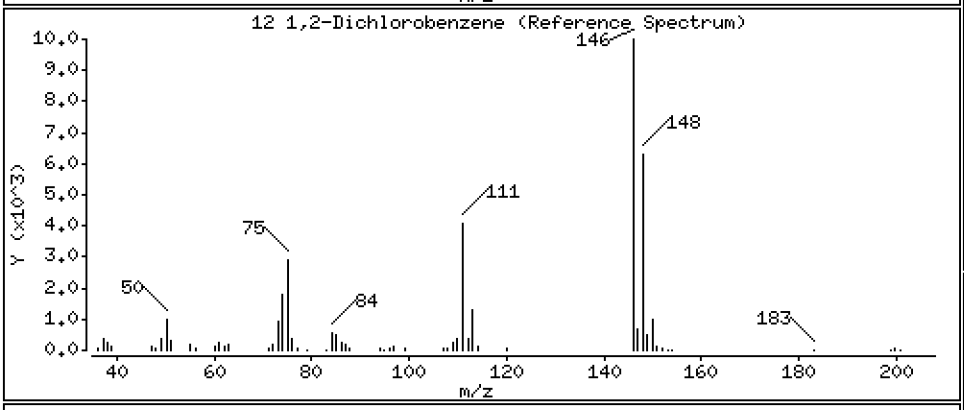
Column diameter: 0.25

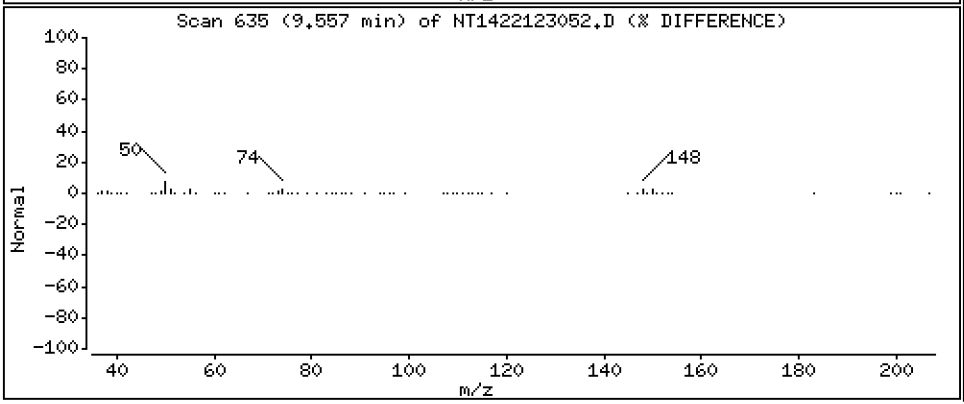
12 1,2-Dichlorobenzene

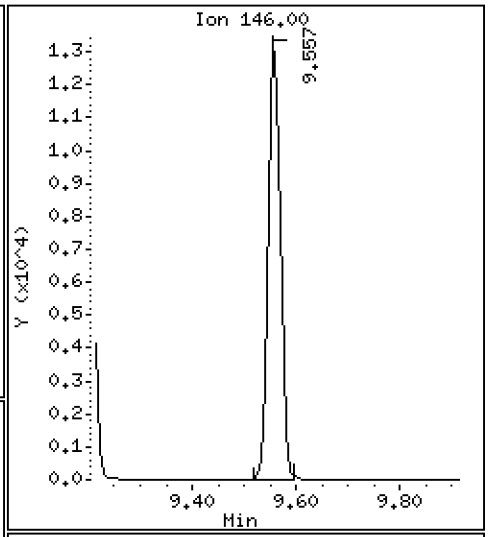
Concentration: 0.4842 ug/mL

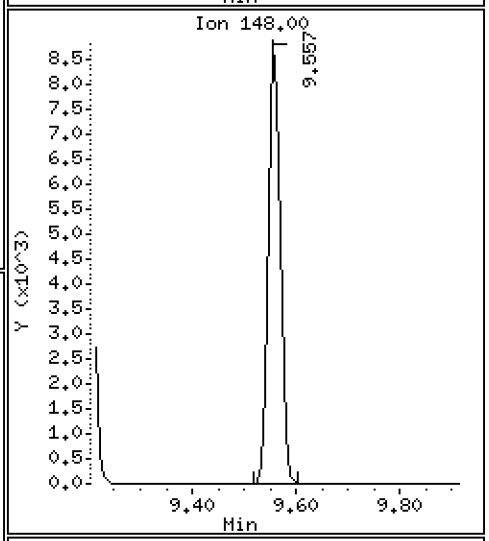


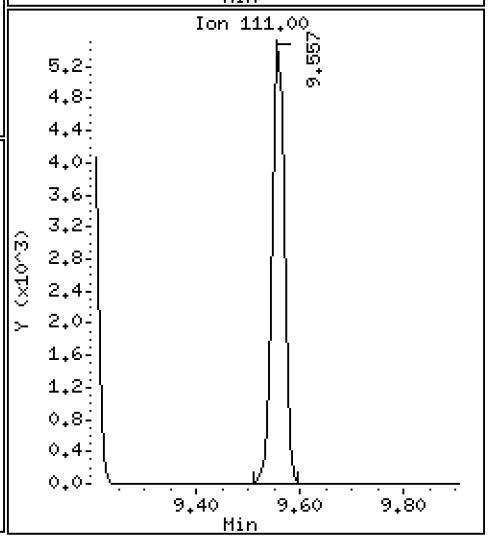












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

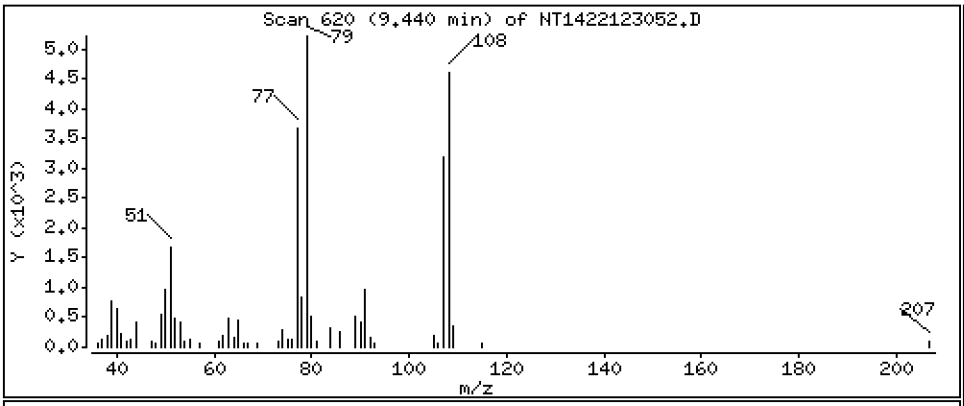
Operator: VTS

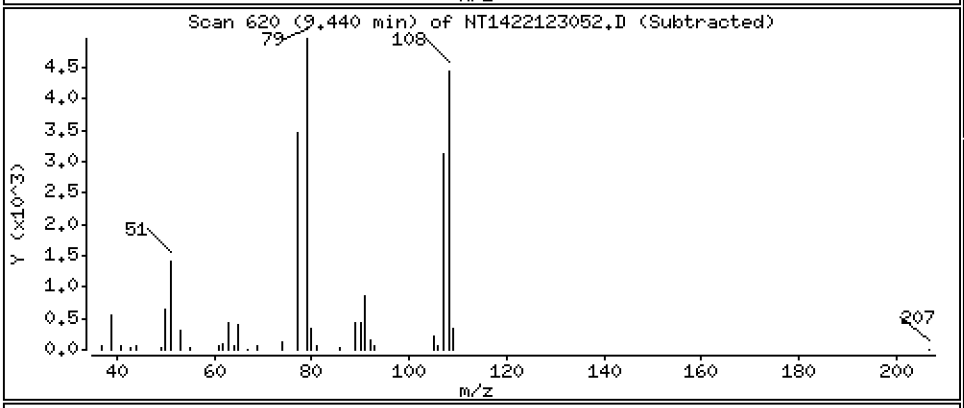
Column phase: ZB-5msi

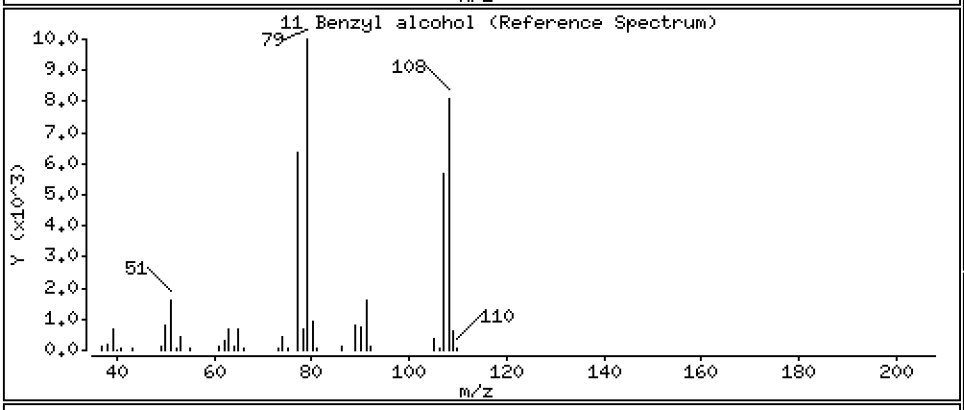
Column diameter: 0.25

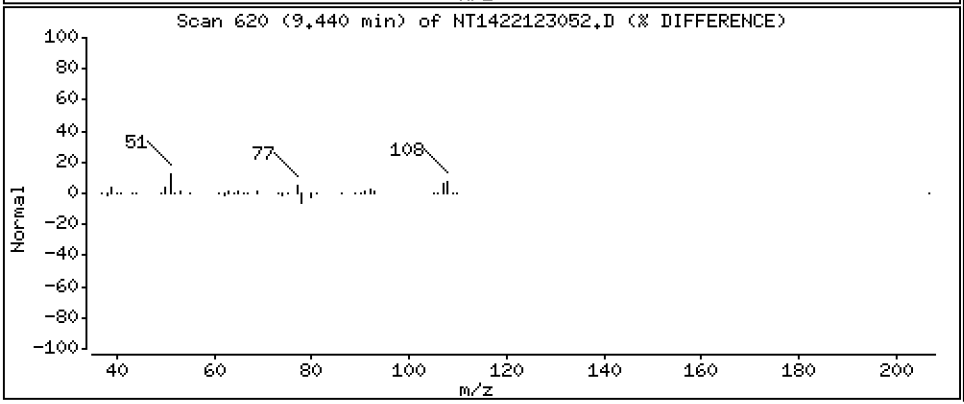
11 Benzyl alcohol

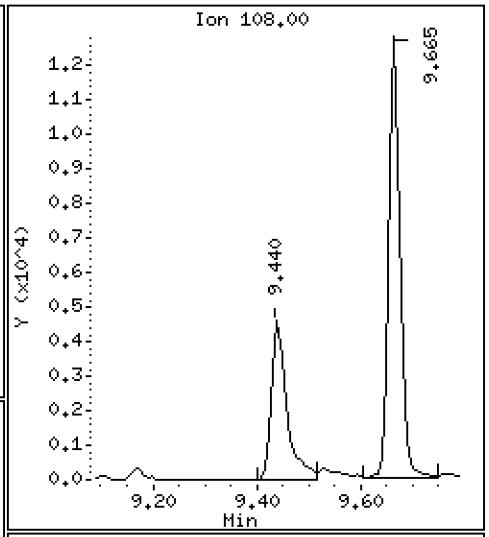
Concentration: 0.3788 ug/mL

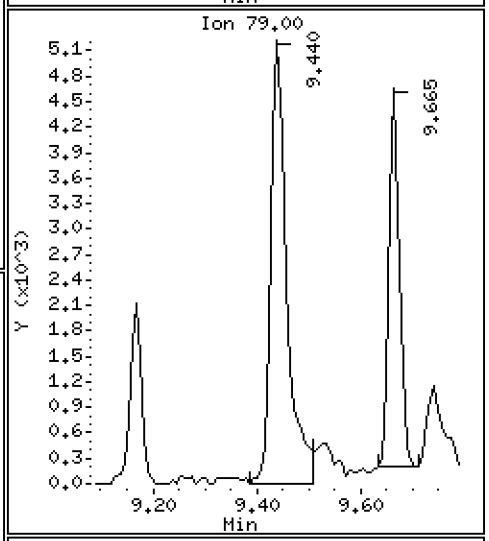


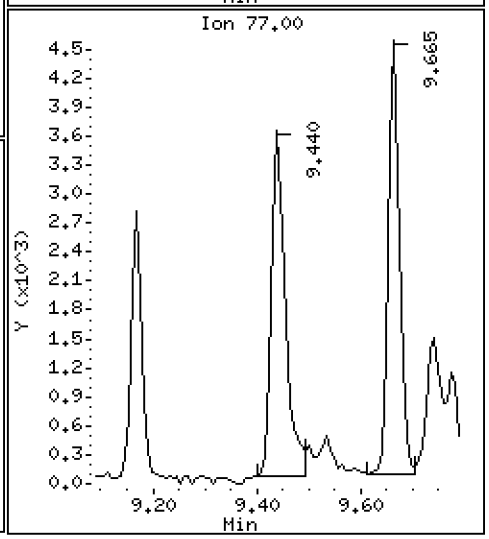












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

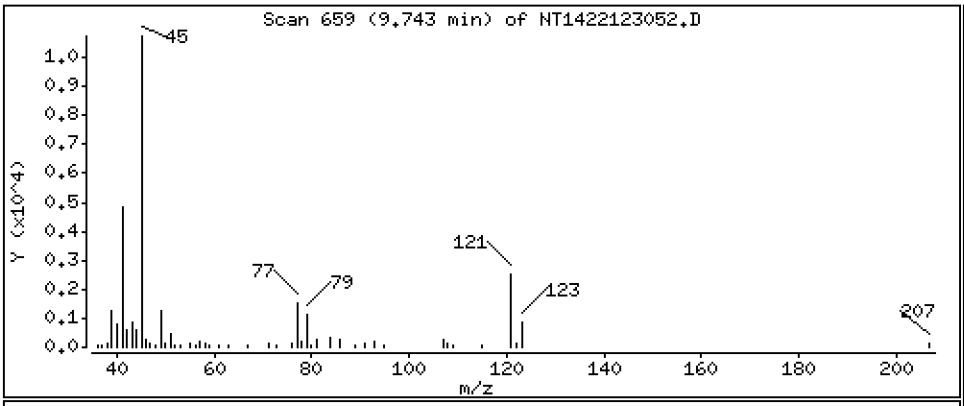
Operator: VTS

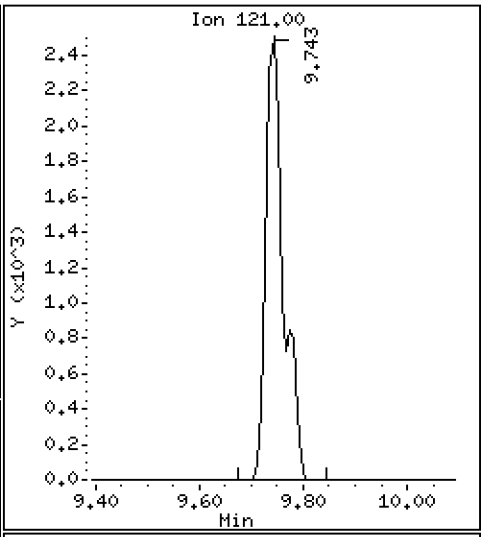
Column phase: ZB-5msi

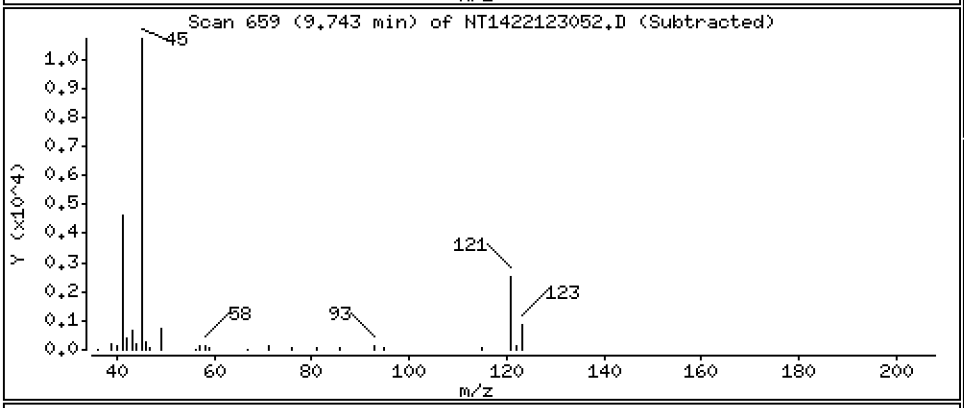
Column diameter: 0.25

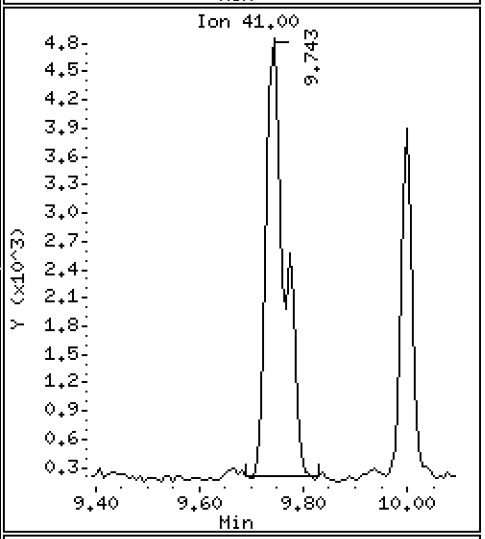
14 2,2'-oxybis(1-Chloropropane)

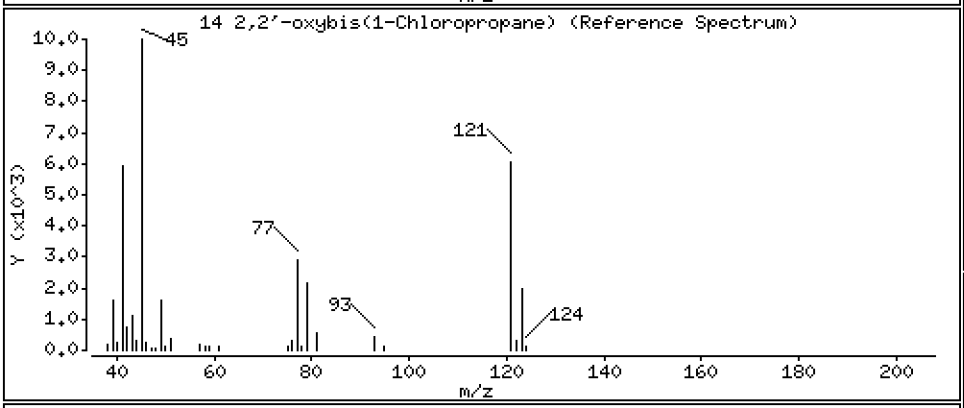
Concentration: 0.4614 ug/mL

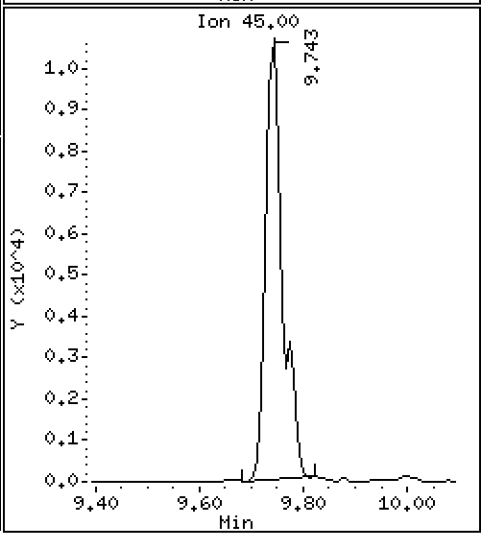


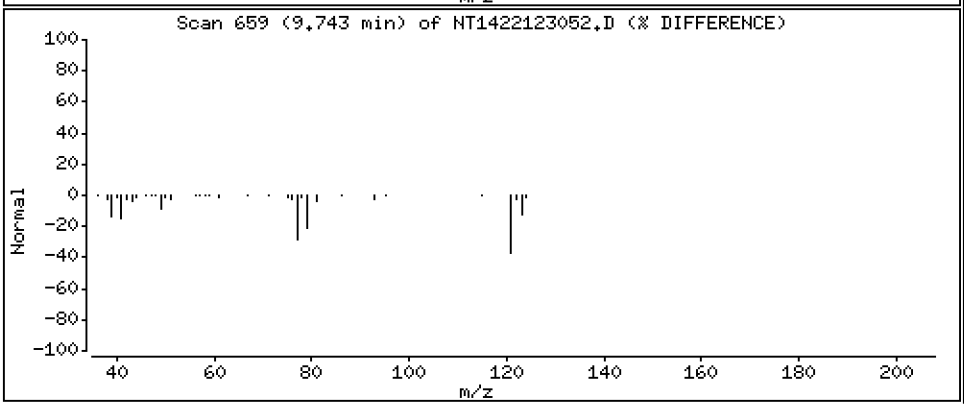












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

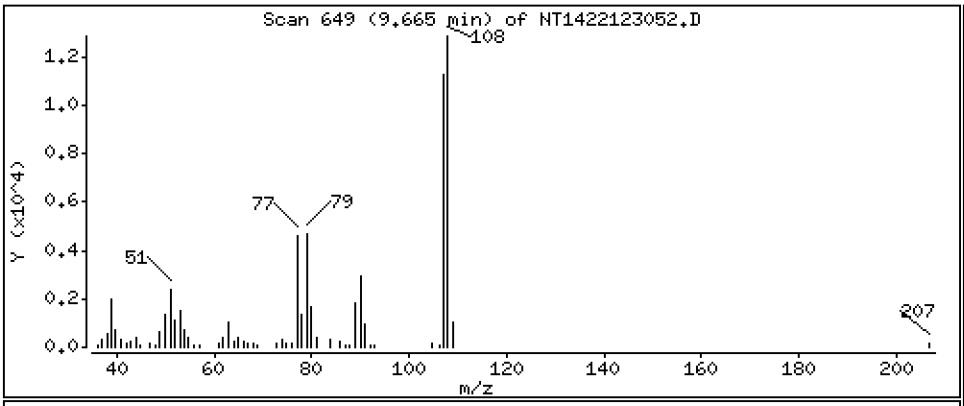
Operator: VTS

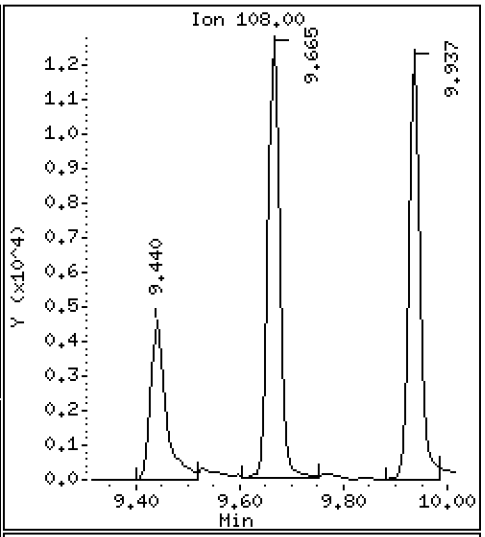
Column phase: ZB-5msi

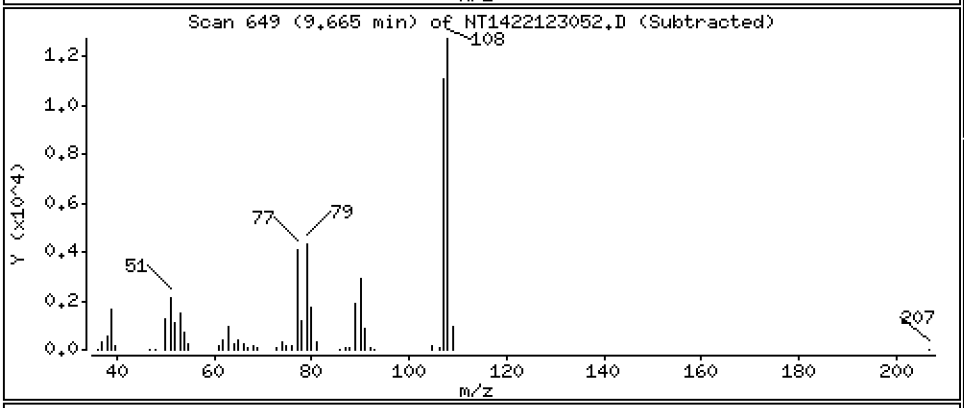
Column diameter: 0.25

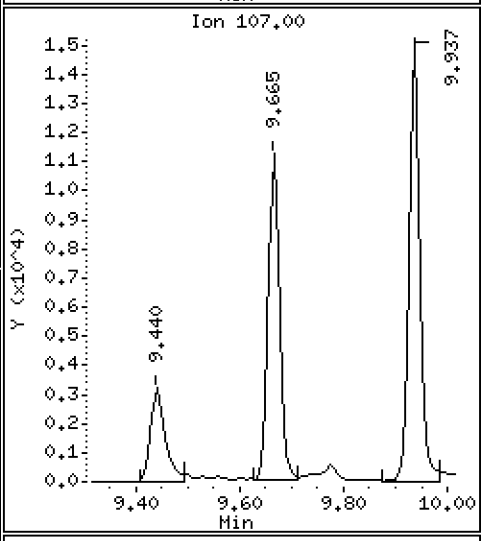
13 2-Methylphenol

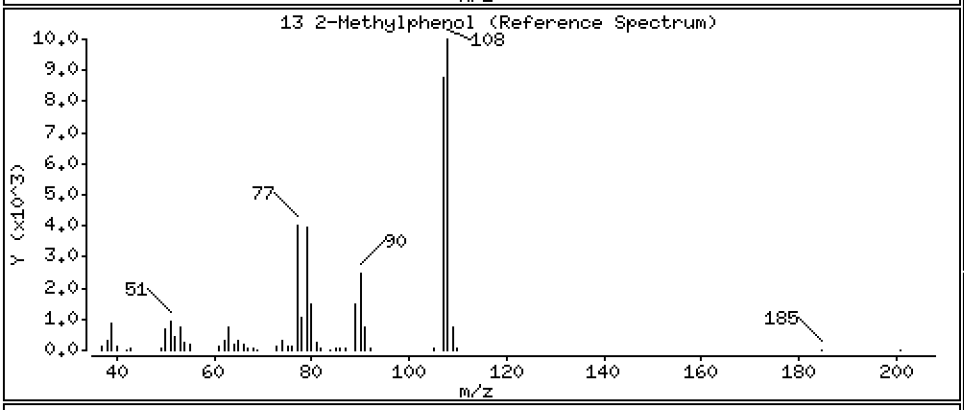
Concentration: 0.4833 ug/mL

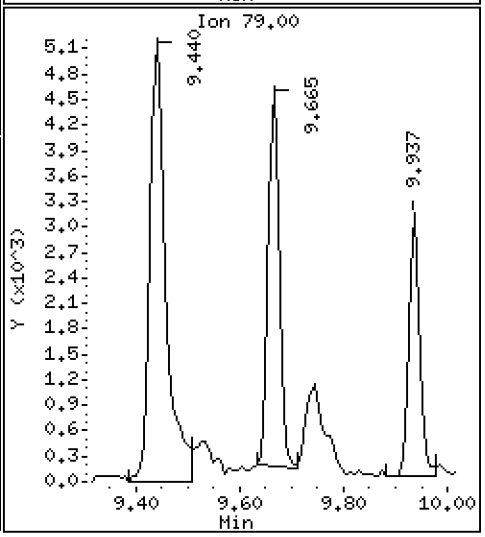


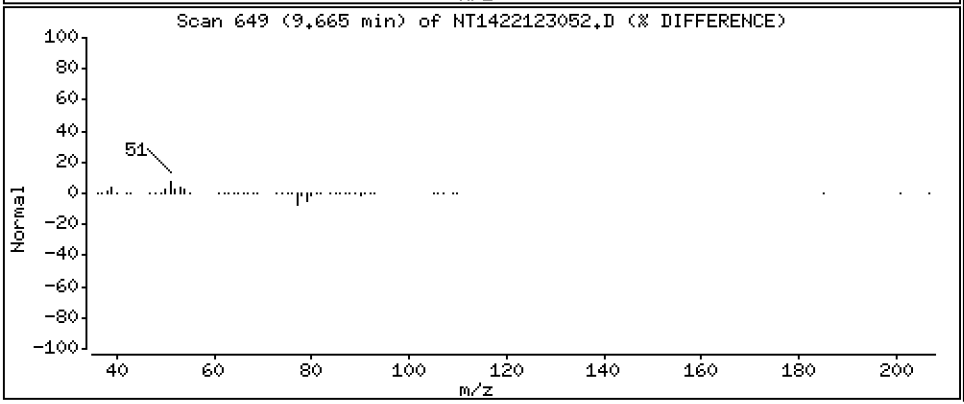












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

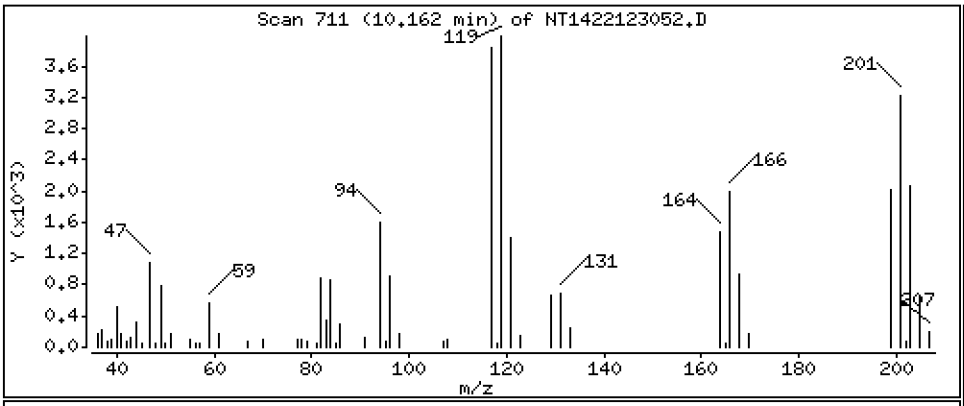
Operator: VTS

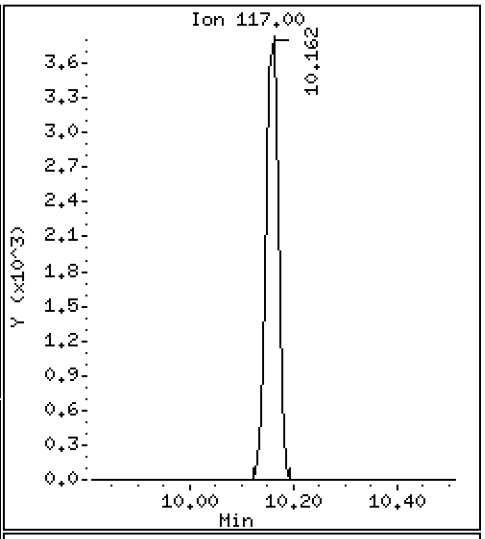
Column phase: ZB-5msi

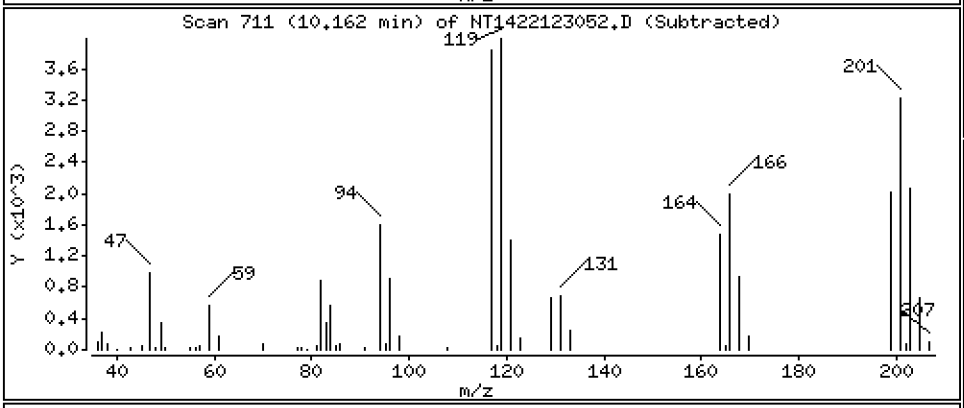
Column diameter: 0.25

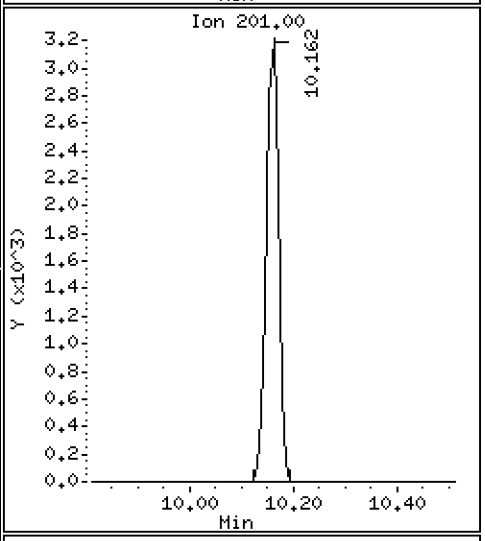
17 Hexachloroethane

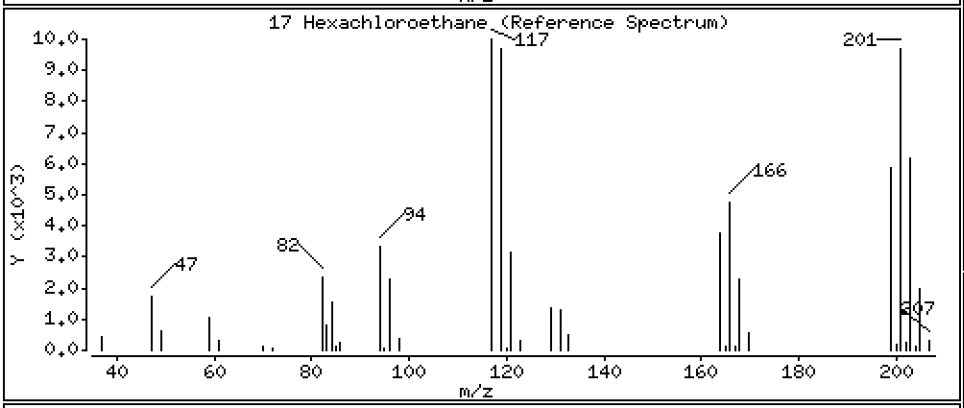
Concentration: 0.3728 ug/mL

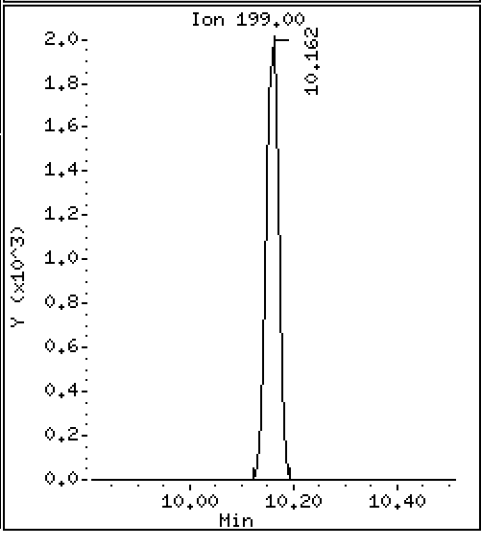


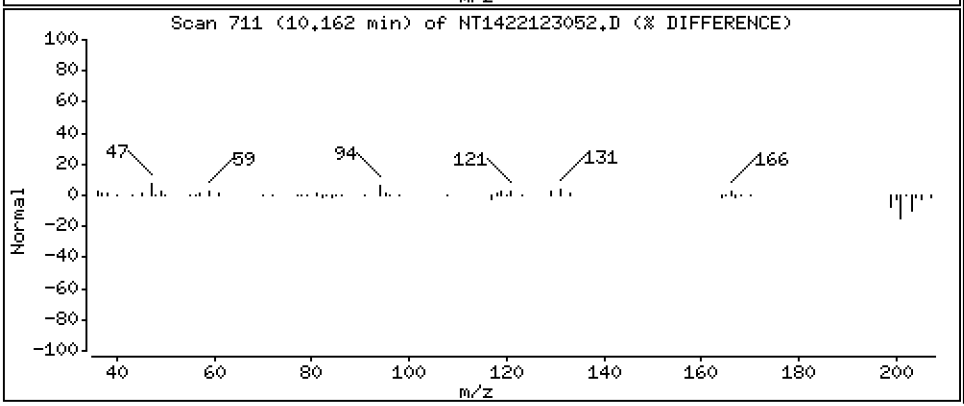












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

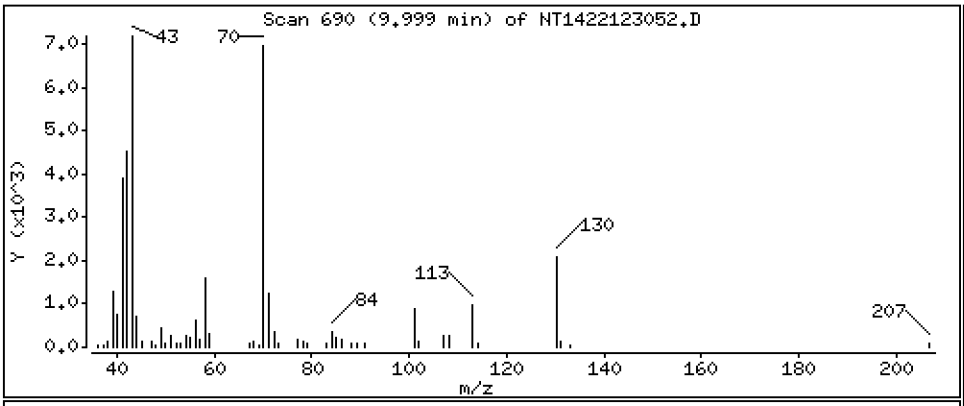
Operator: VTS

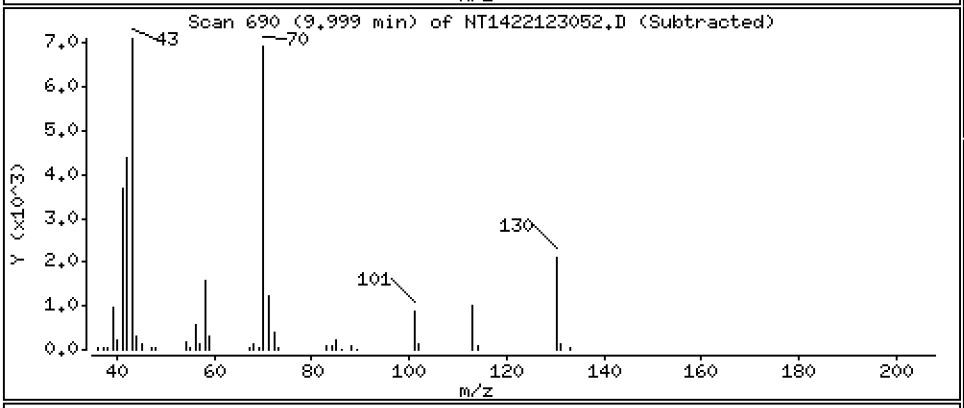
Column phase: ZB-5msi

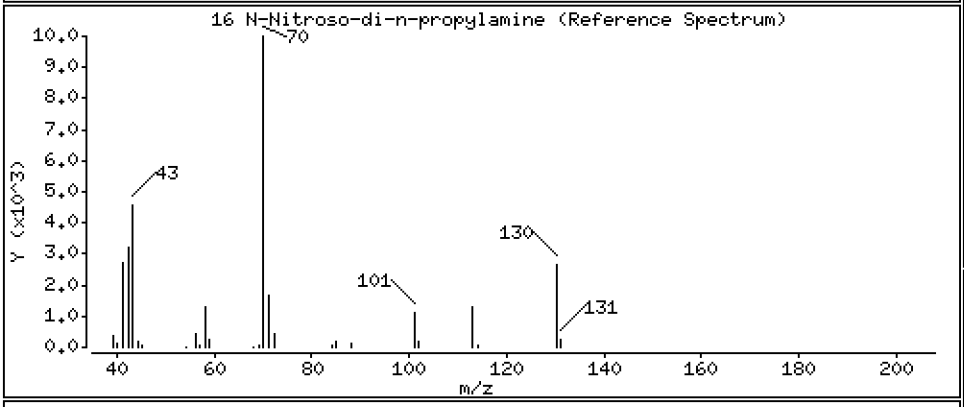
Column diameter: 0.25

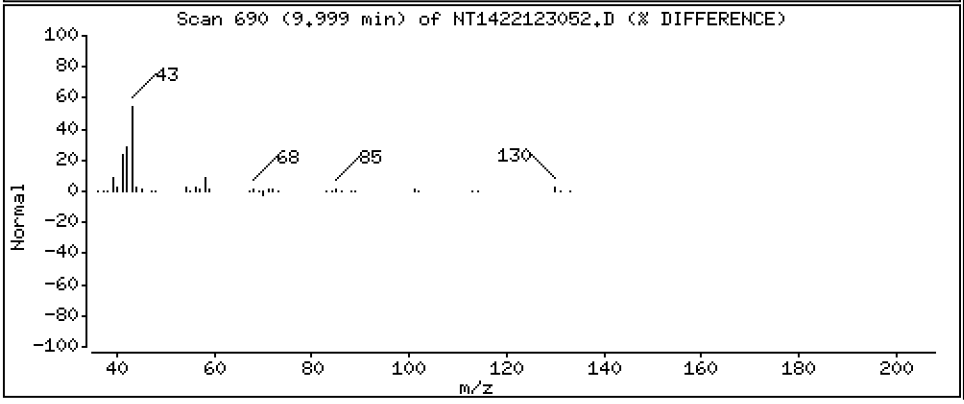
16 N-Nitroso-di-n-propylamine

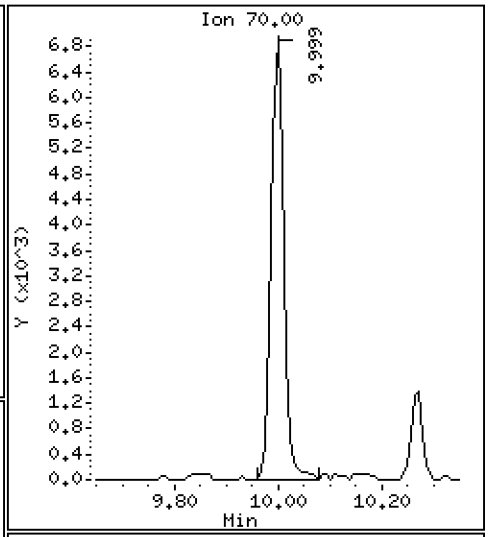
Concentration: 0.4654 ug/mL

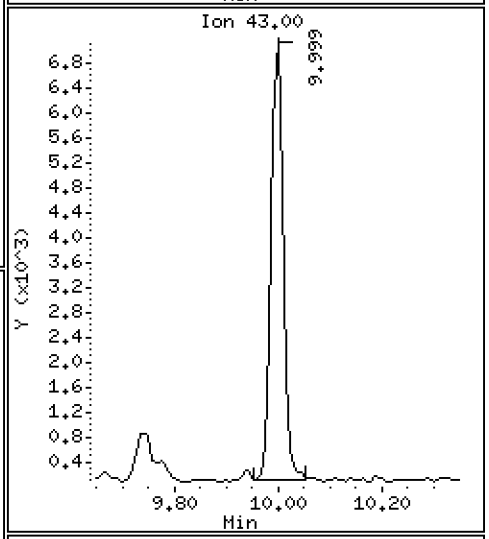


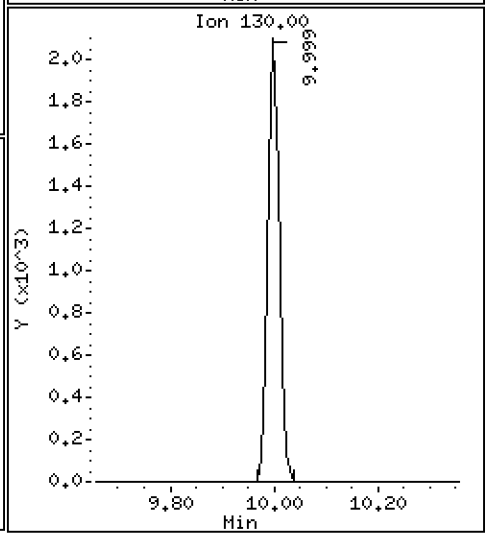












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

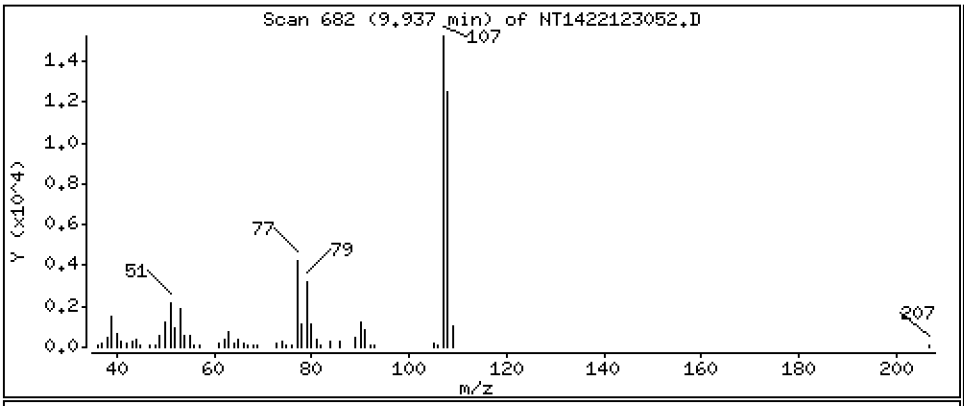
Operator: VTS

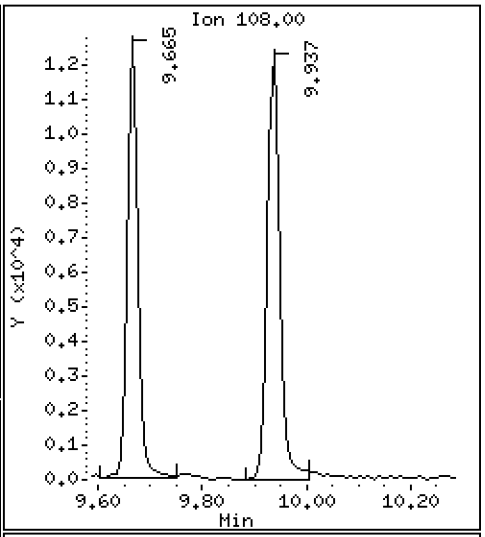
Column phase: ZB-5msi

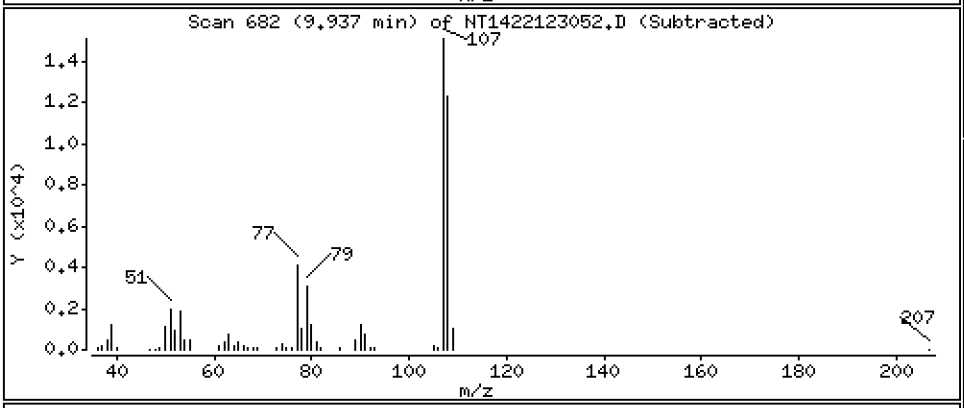
Column diameter: 0.25

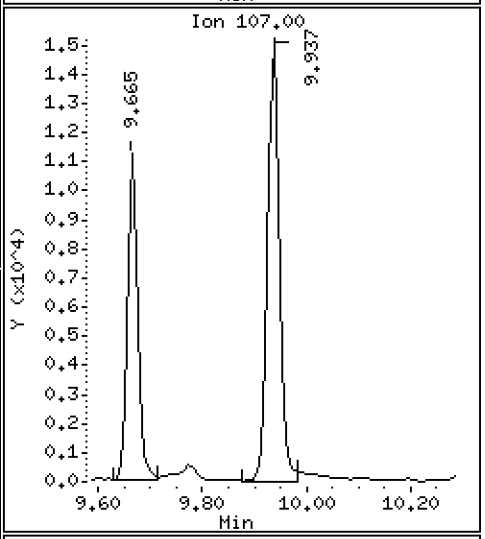
15 4-Methylphenol

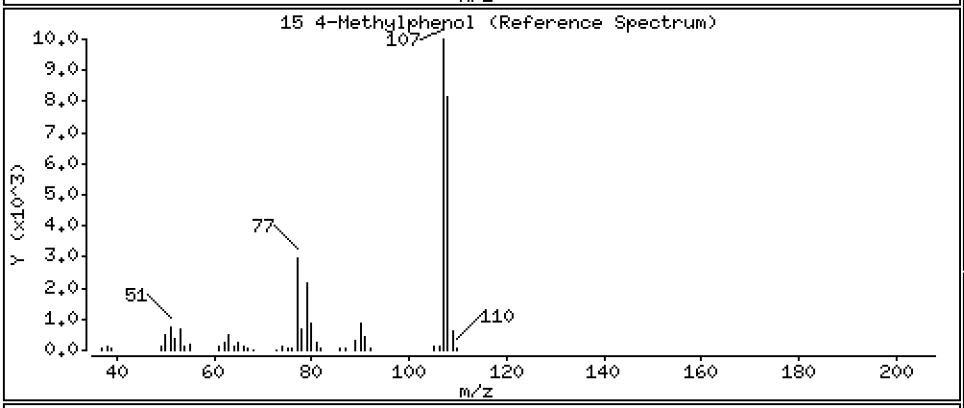
Concentration: 0.4747 ug/mL

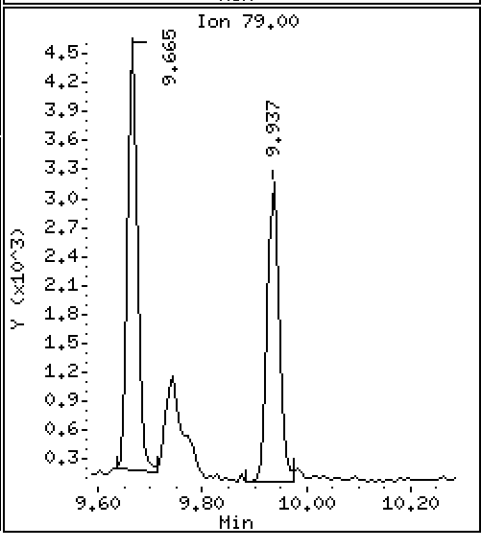


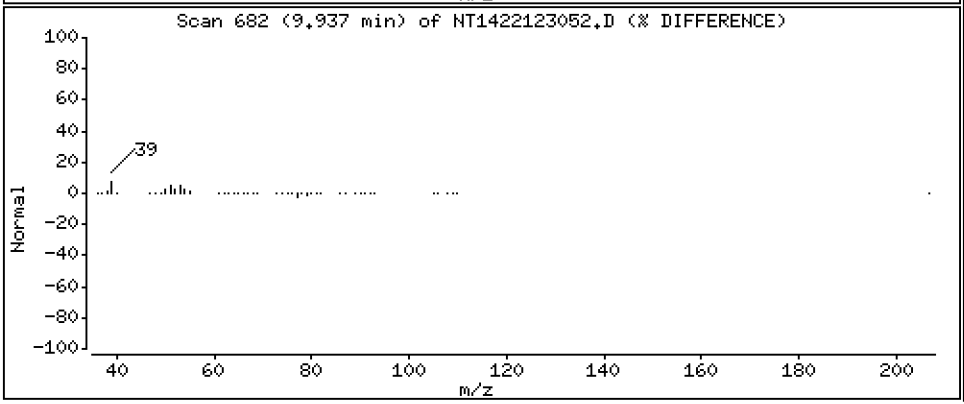












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

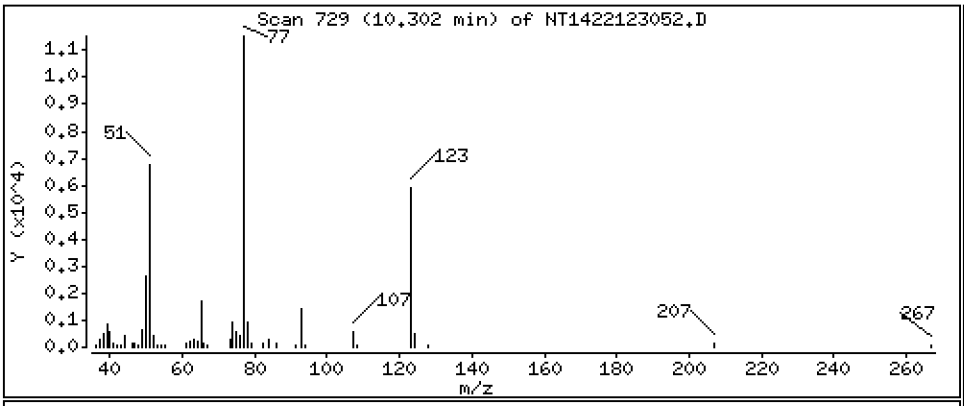
Operator: VTS

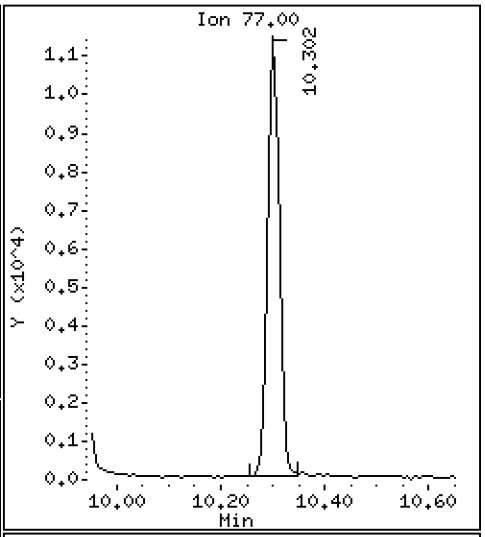
Column phase: ZB-5msi

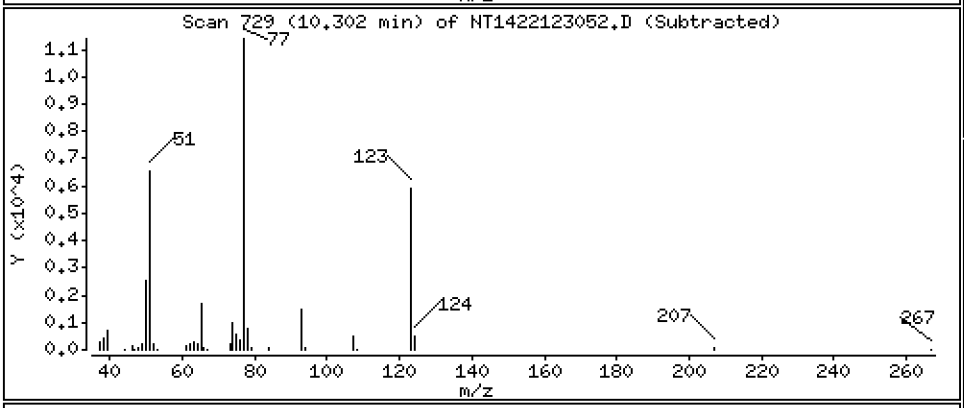
Column diameter: 0.25

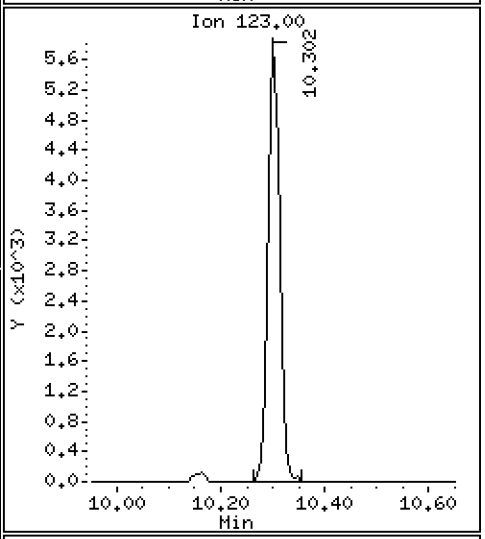
19 Nitrobenzene

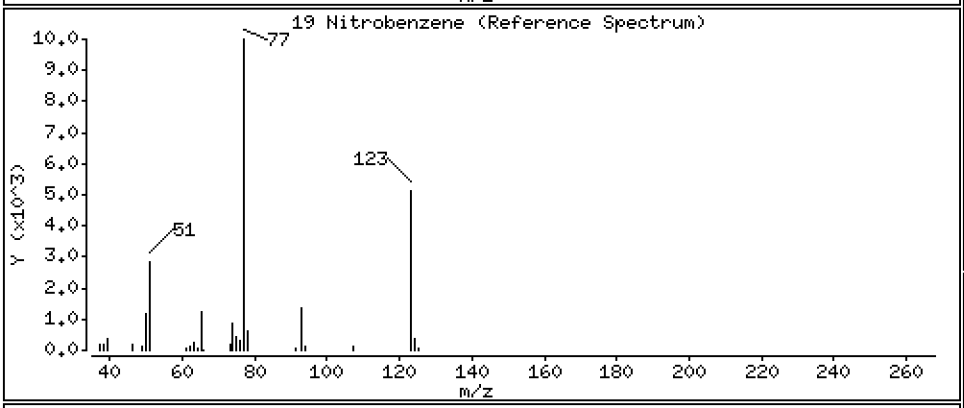
Concentration: 0.4641 ug/mL

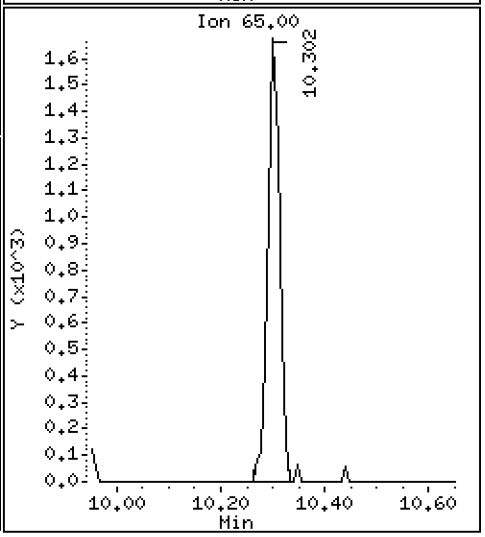


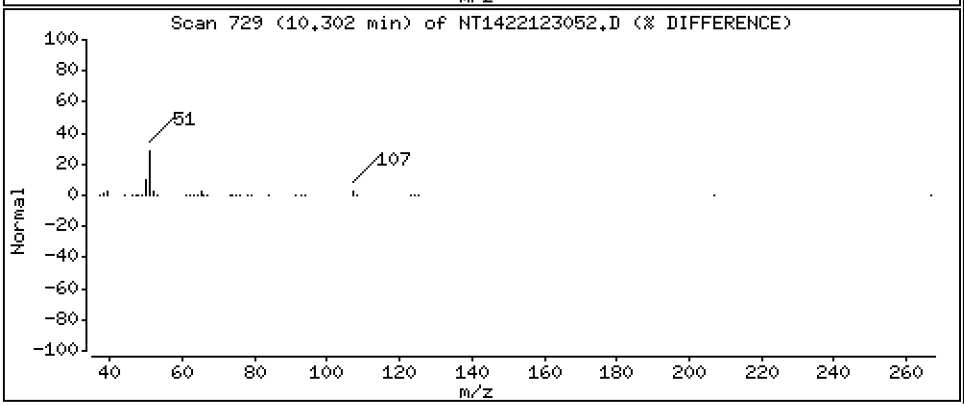












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

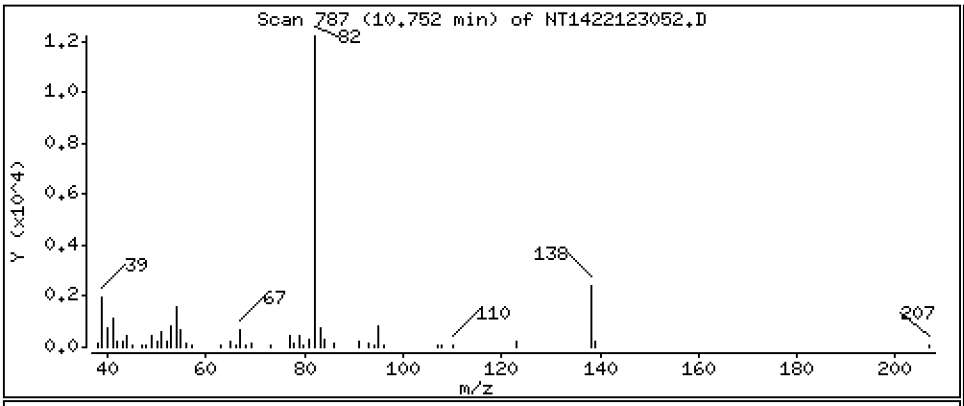
Operator: VTS

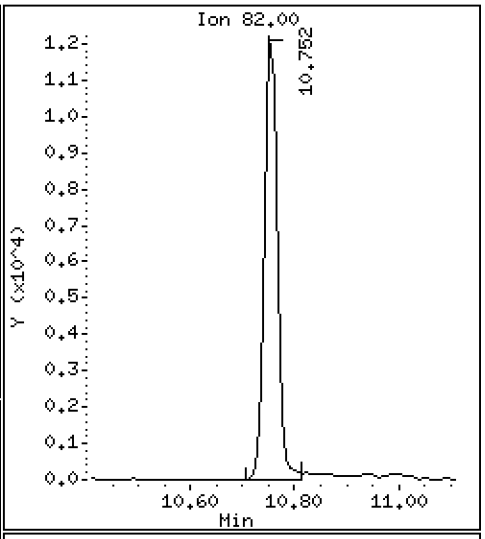
Column phase: ZB-5msi

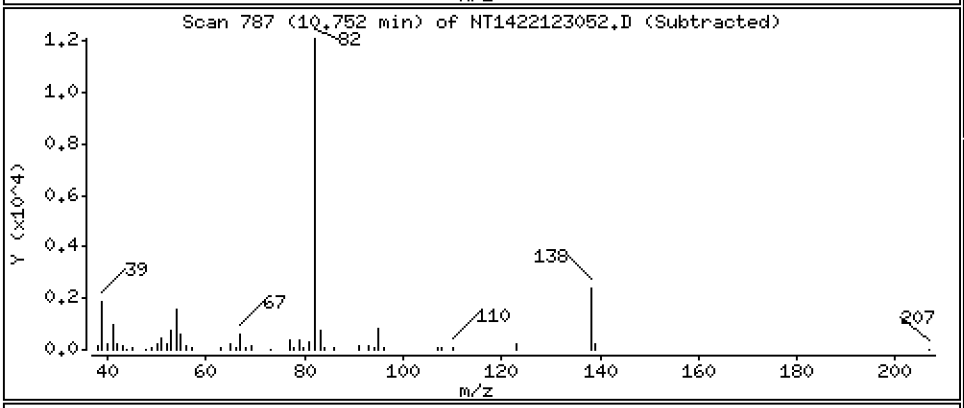
Column diameter: 0.25

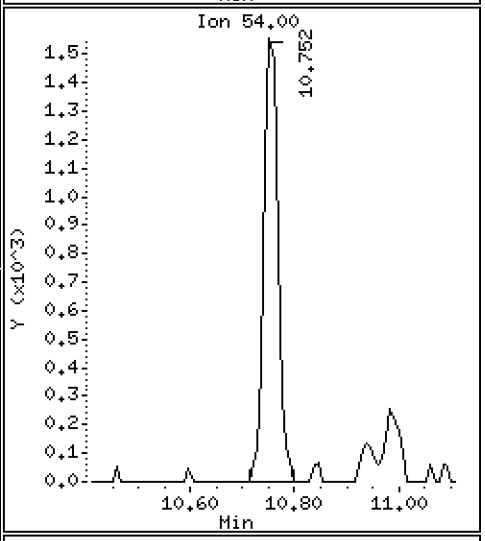
20 Isophorone

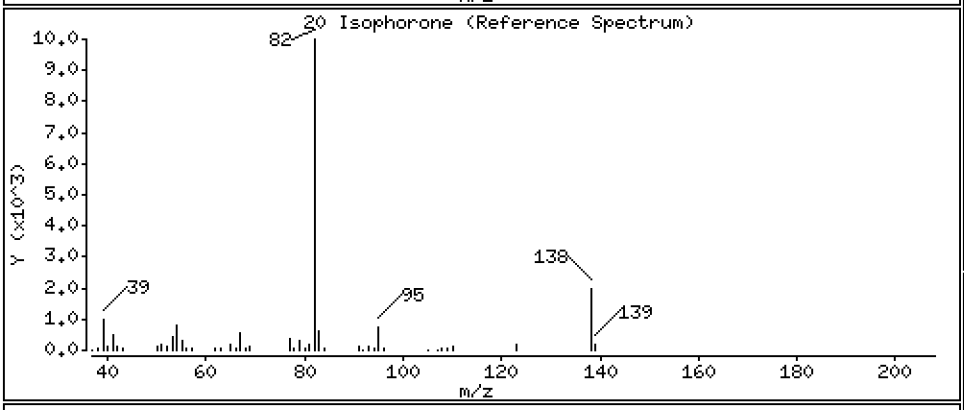
Concentration: 0.4317 ug/mL

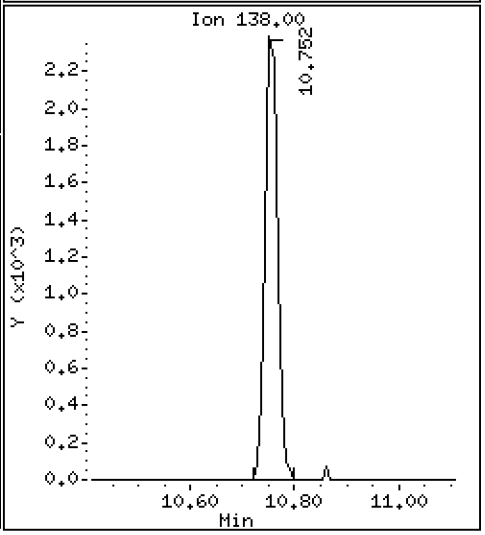


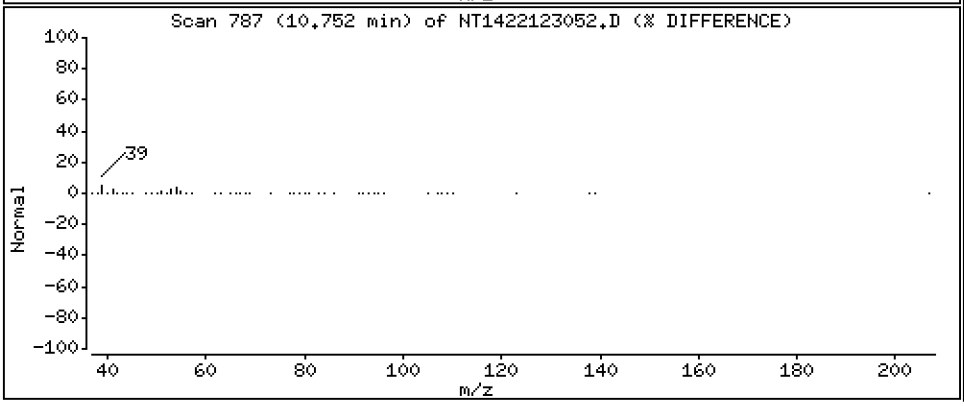












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

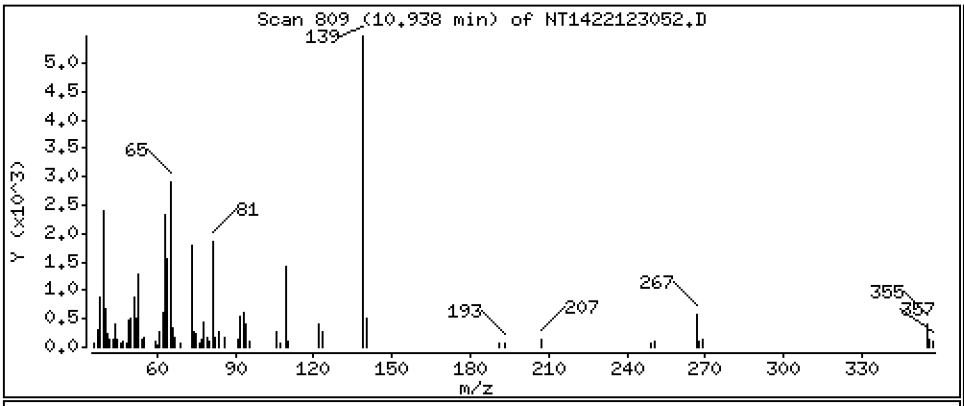
Operator: VTS

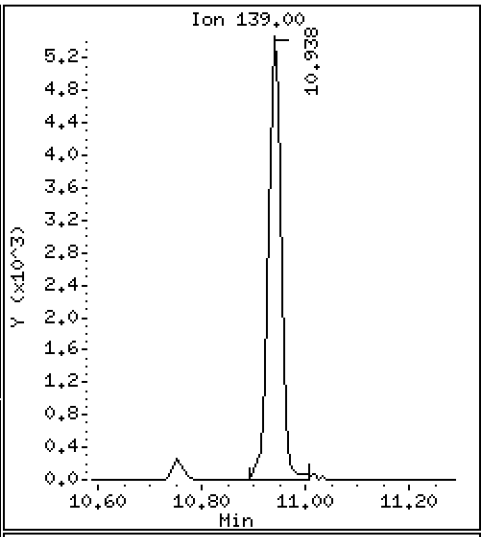
Column phase: ZB-5msi

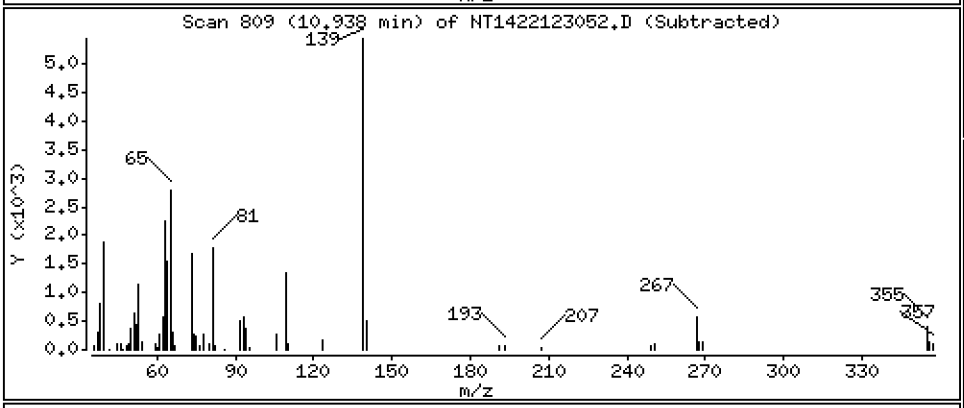
Column diameter: 0.25

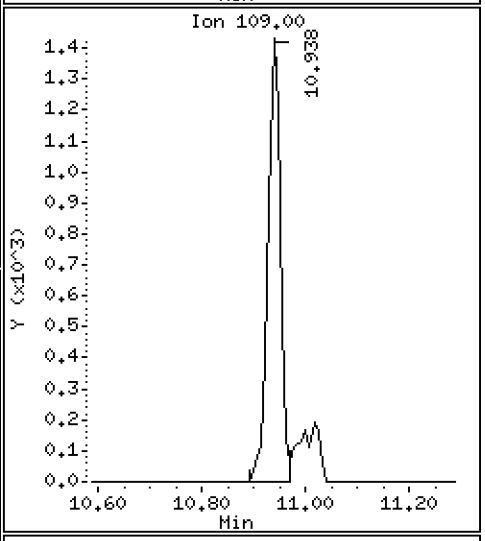
21 2-Nitrophenol

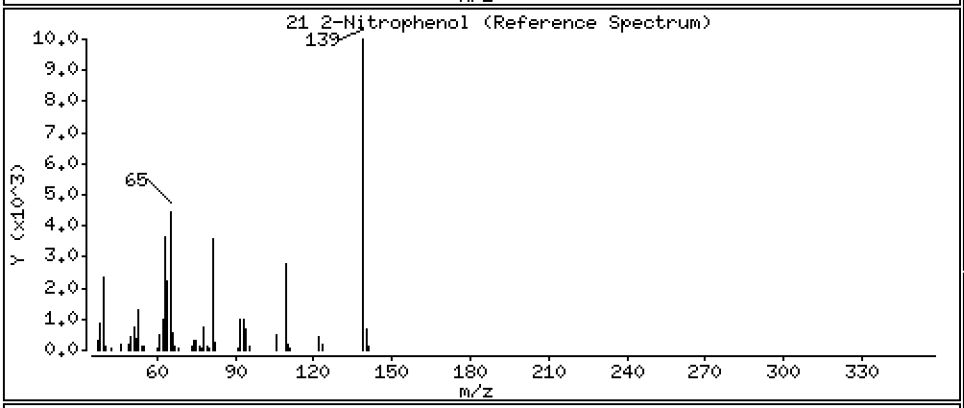
Concentration: 0.4561 ug/mL

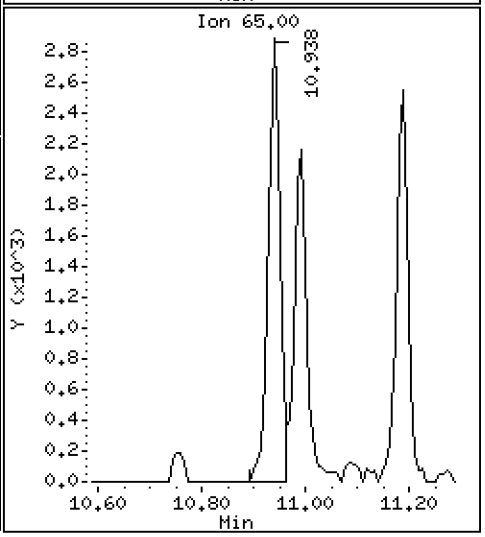


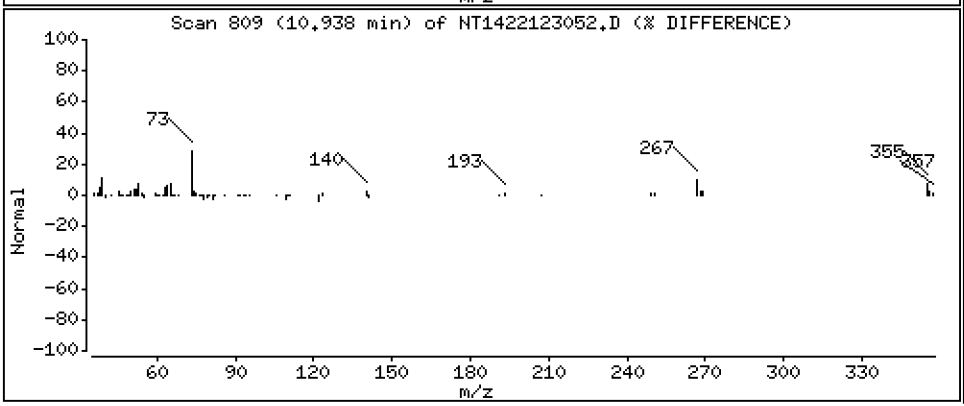












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

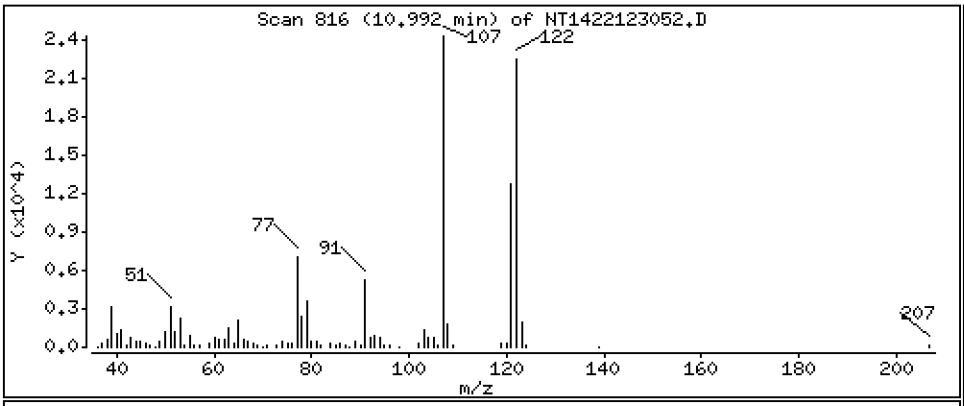
Operator: VTS

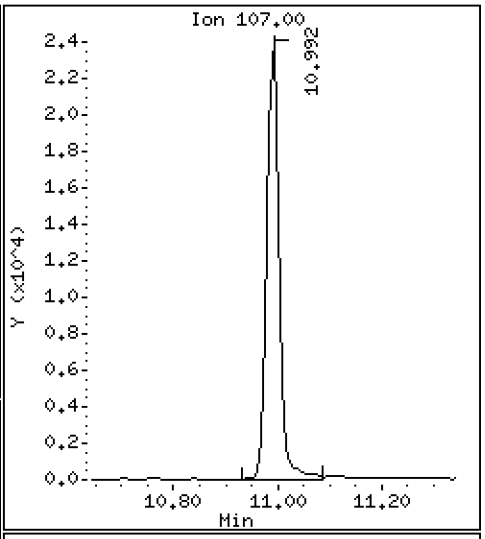
Column phase: ZB-5msi

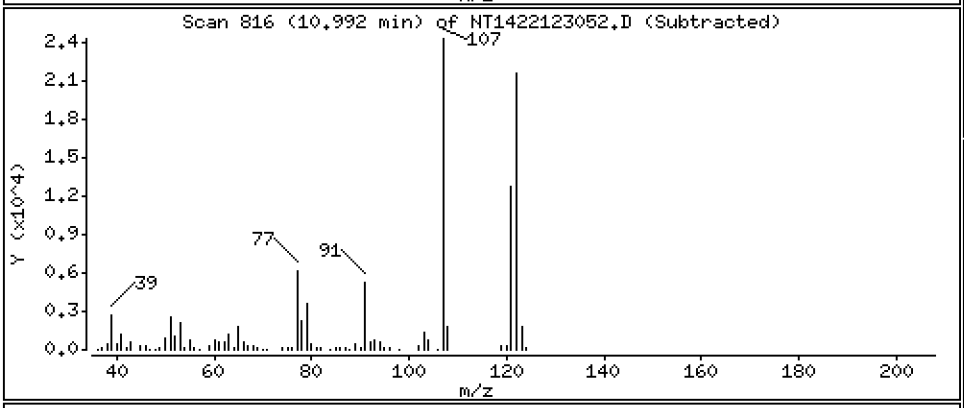
Column diameter: 0.25

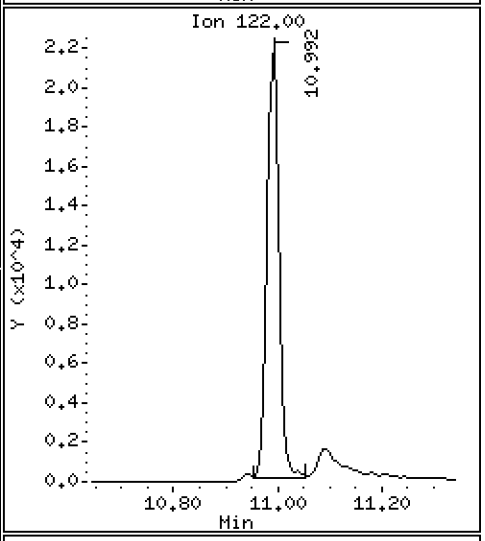
22 2,4-Dimethylphenol

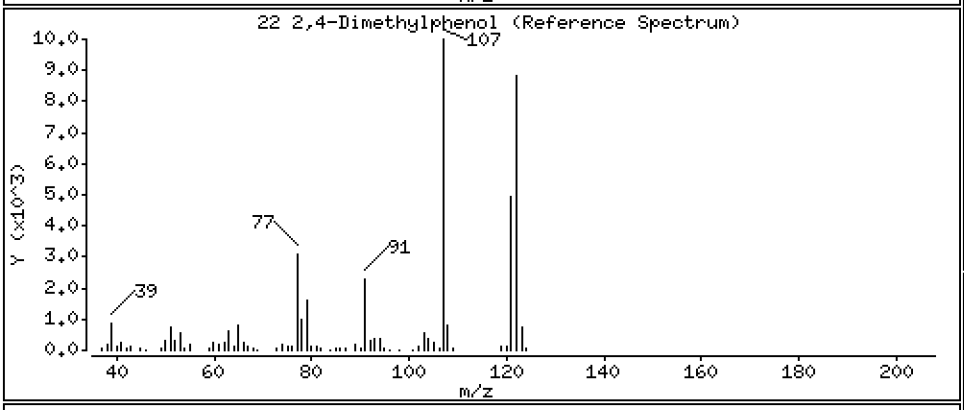
Concentration: 0.9882 ug/mL

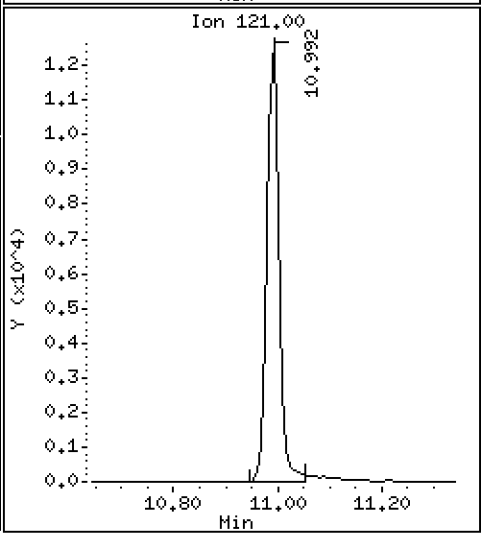


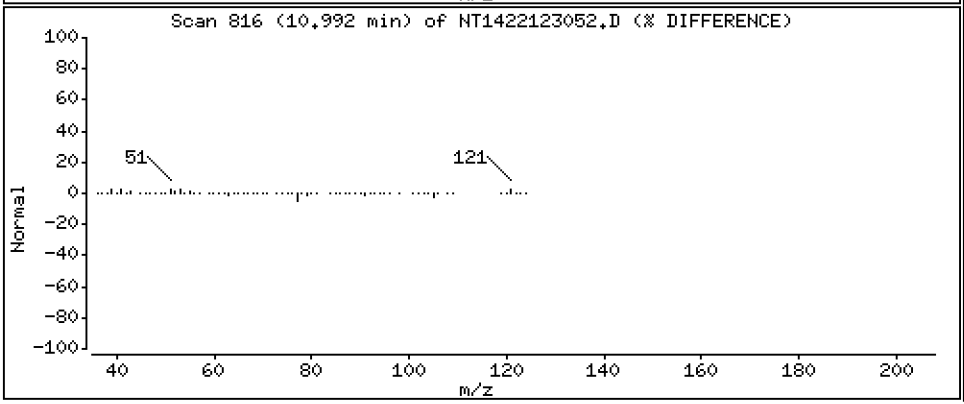












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

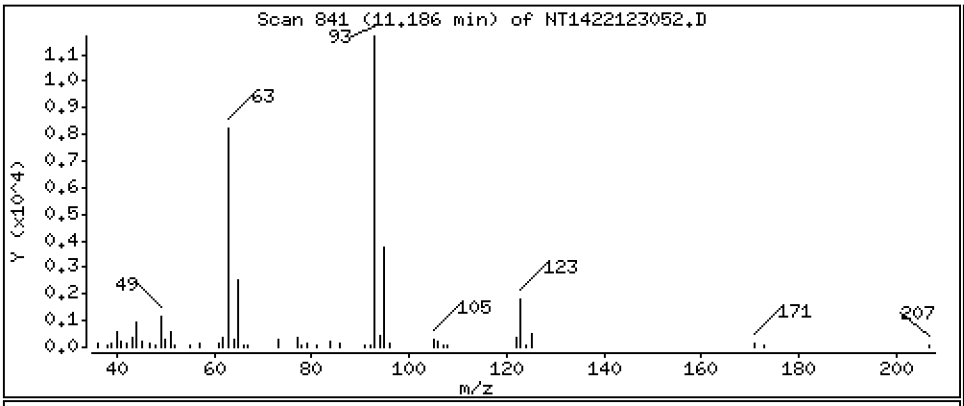
Operator: VTS

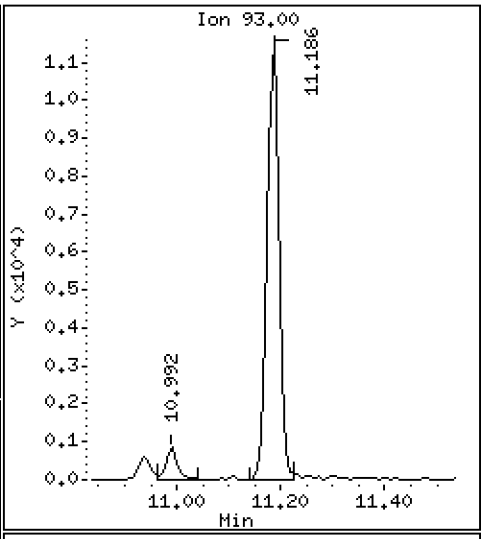
Column phase: ZB-5msi

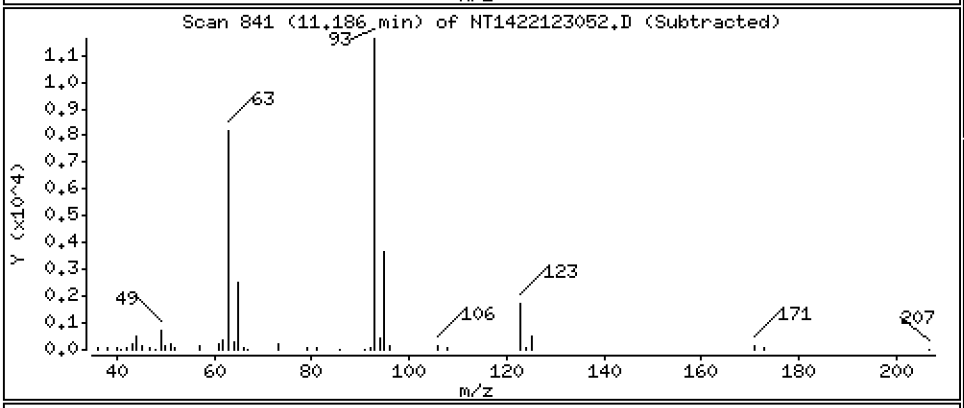
Column diameter: 0.25

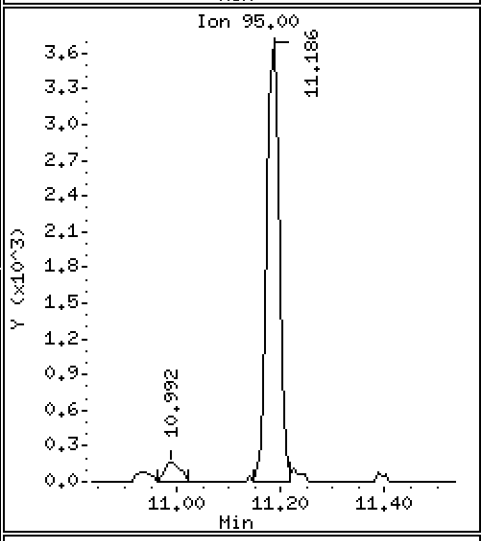
23 Bis(2-Chloroethoxy)methane

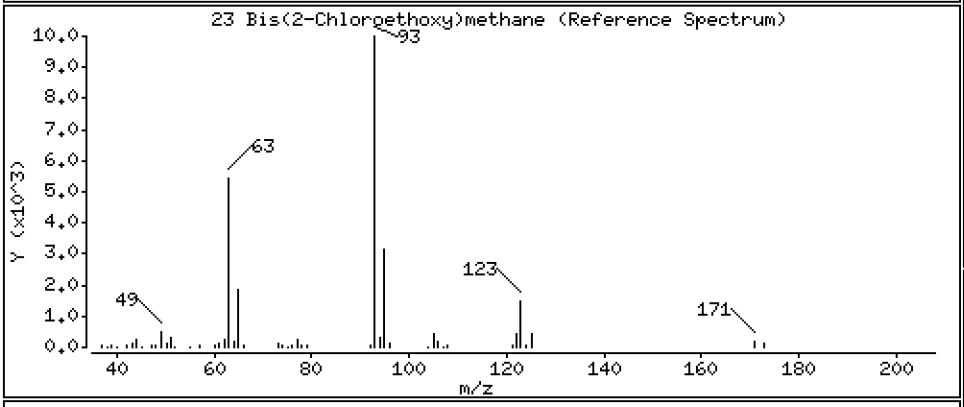
Concentration: 0.4840 ug/mL

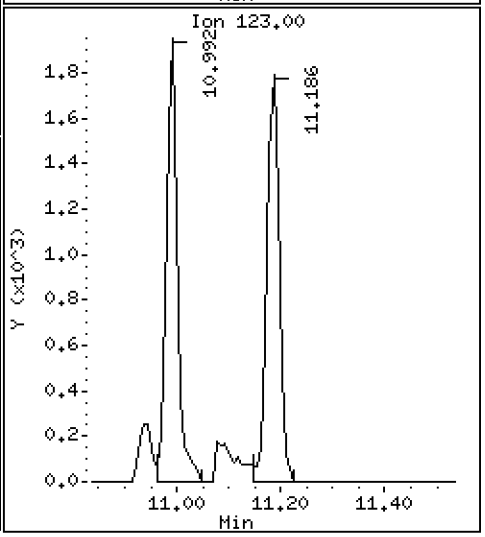


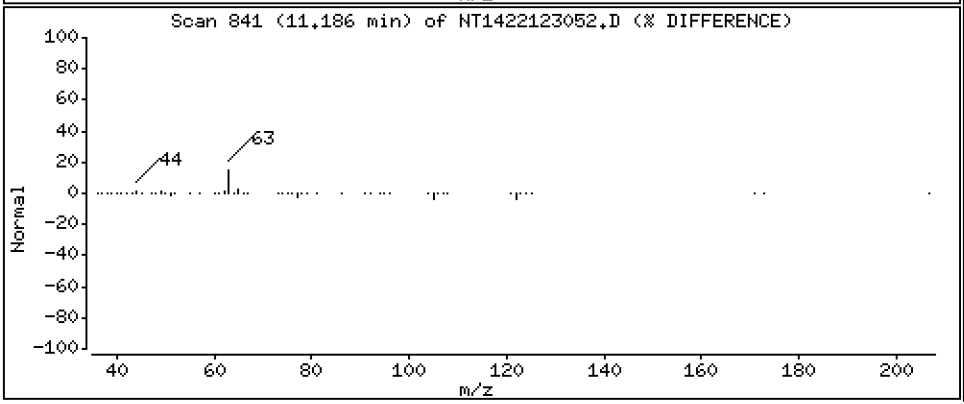












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

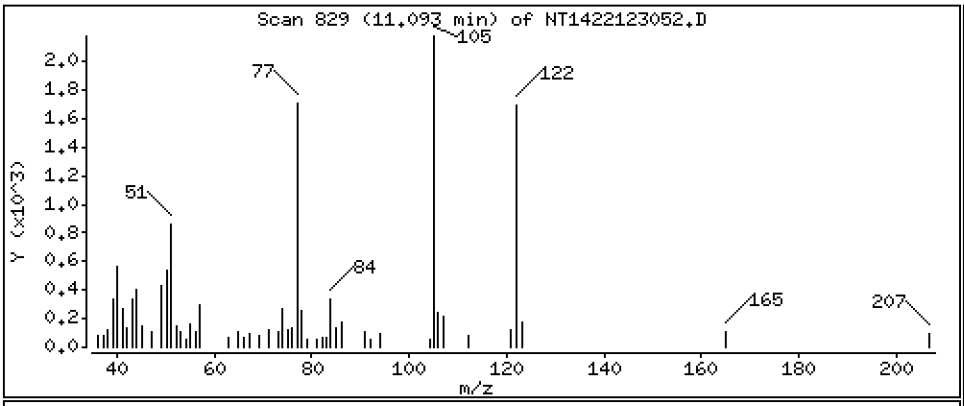
Operator: VTS

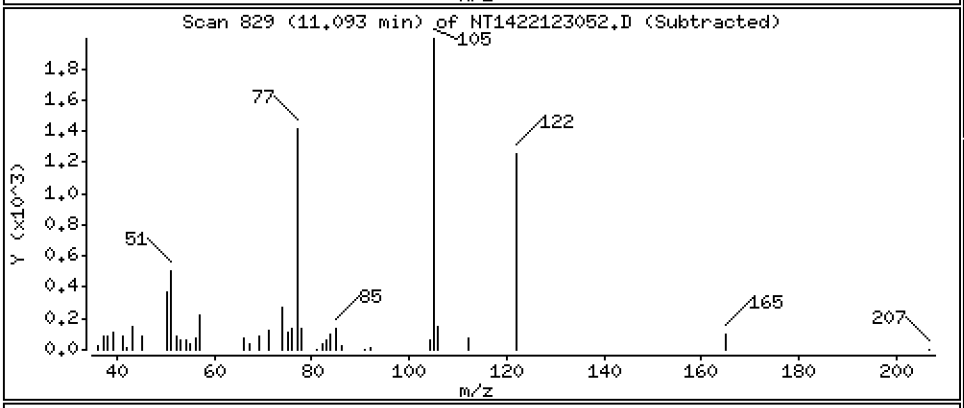
Column phase: ZB-5msi

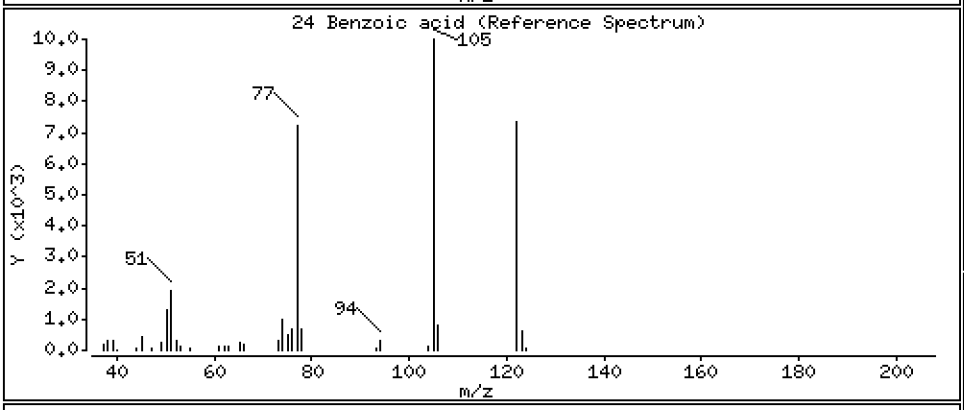
Column diameter: 0.25

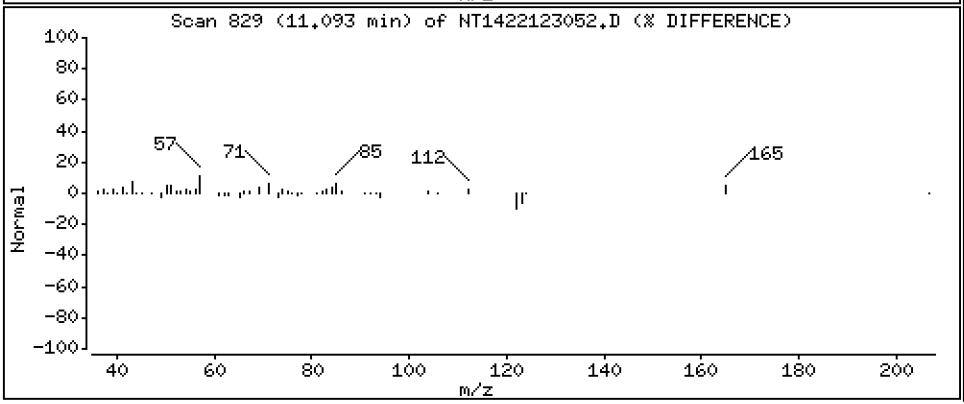
24 Benzoic acid

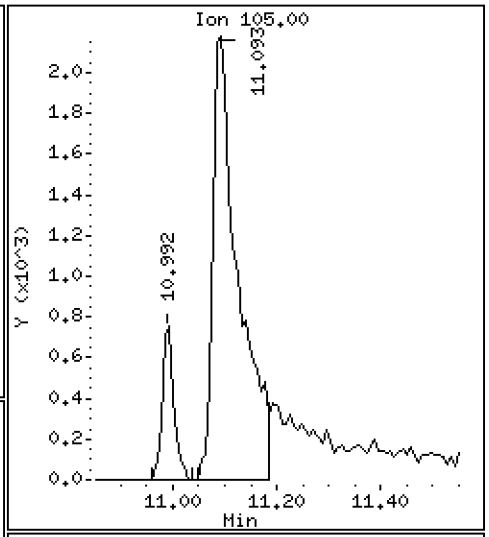
Concentration: 0.3306 ug/mL

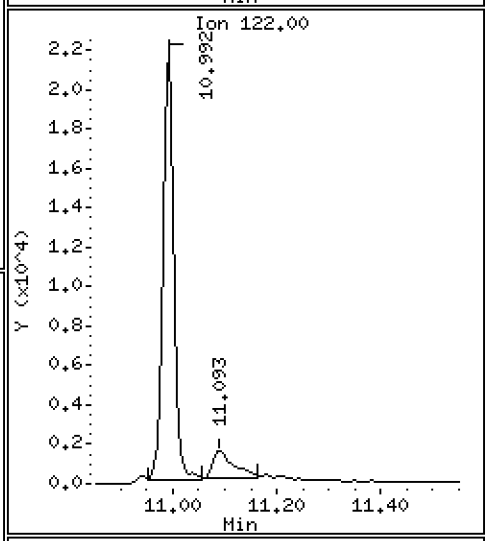


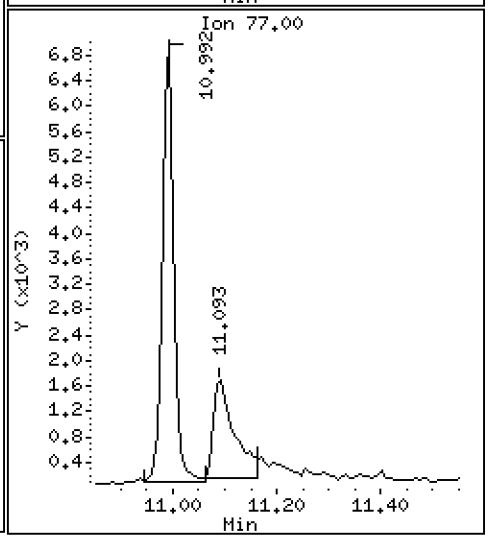












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

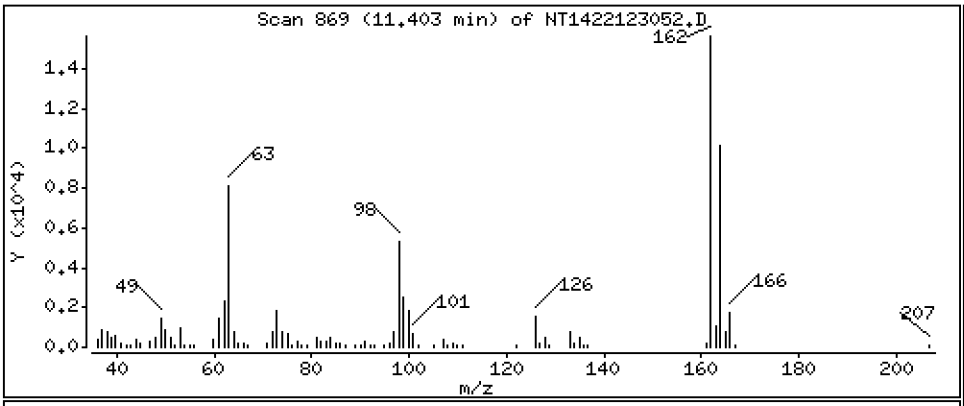
Operator: VTS

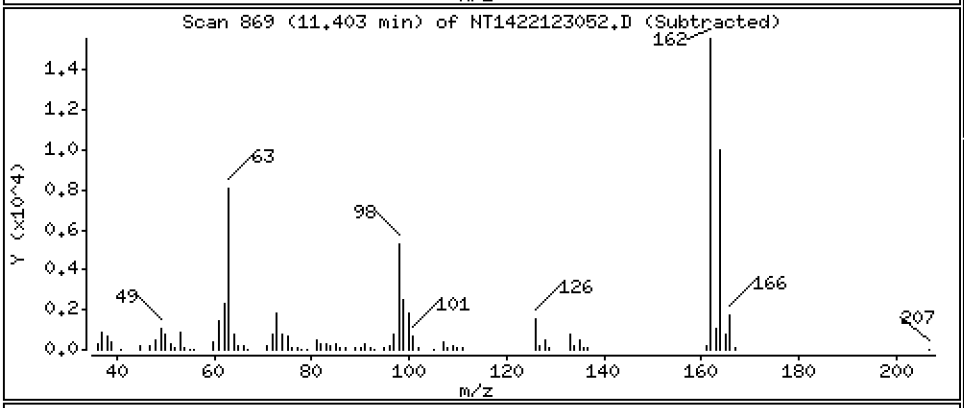
Column phase: ZB-5msi

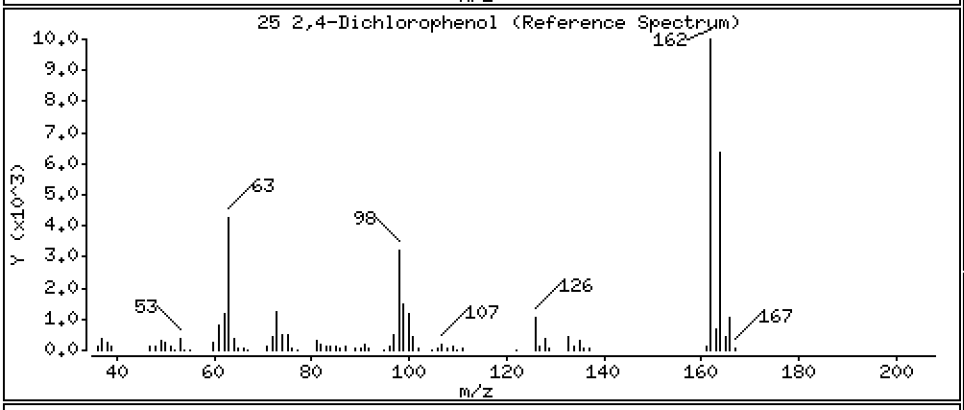
Column diameter: 0.25

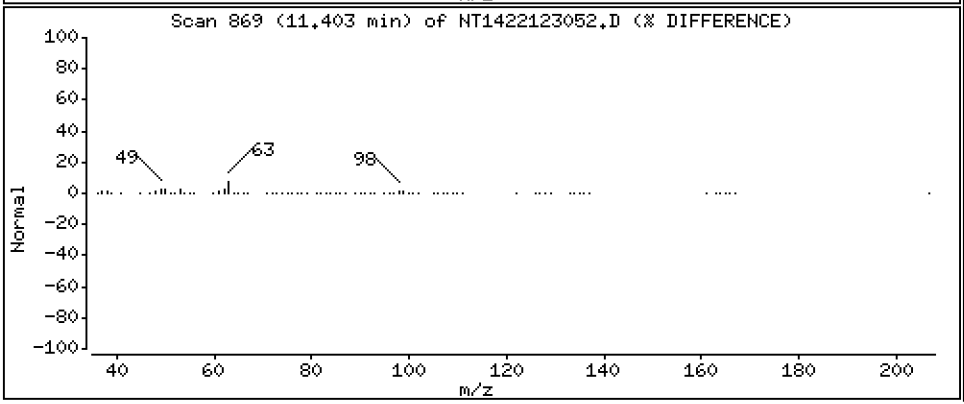
25 2,4-Dichlorophenol

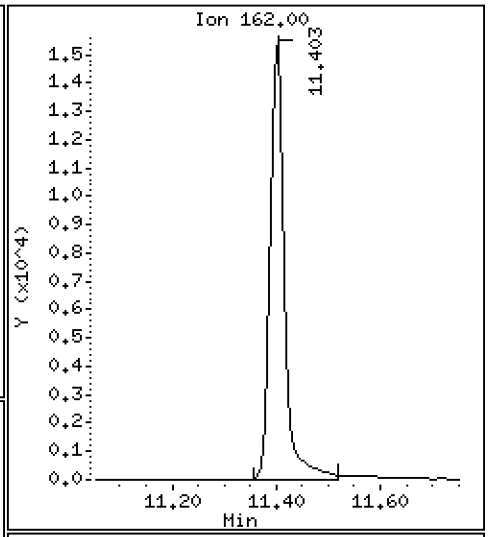
Concentration: 0.9922 ug/mL

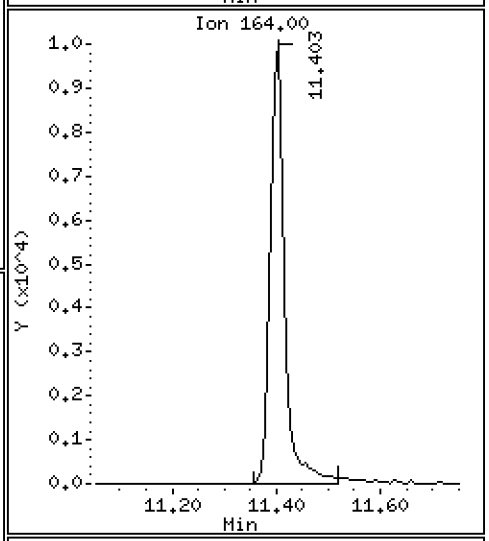


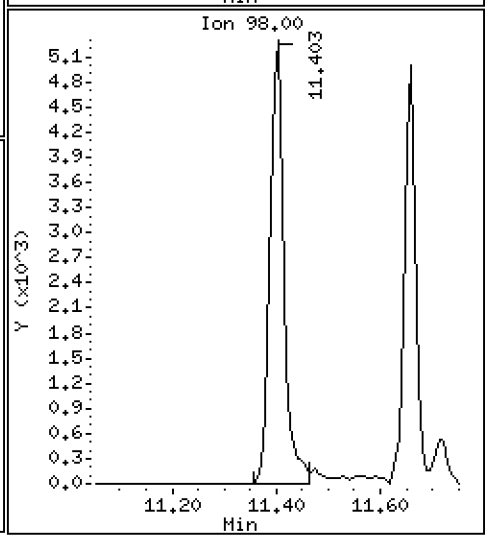












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

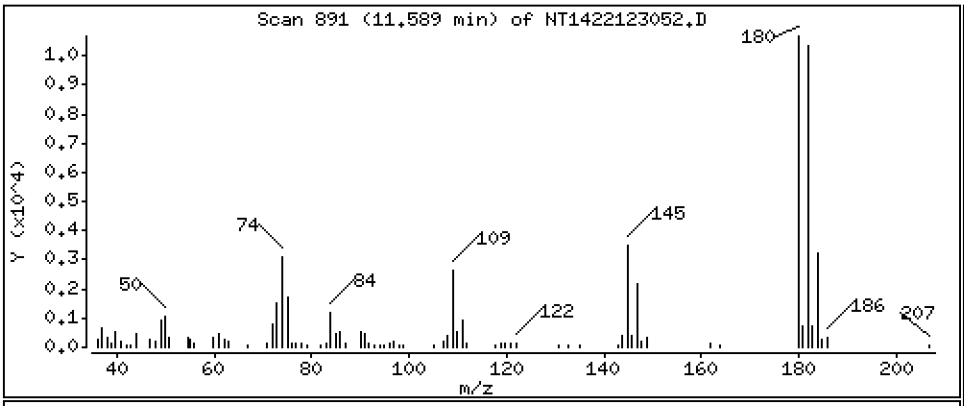
Operator: VTS

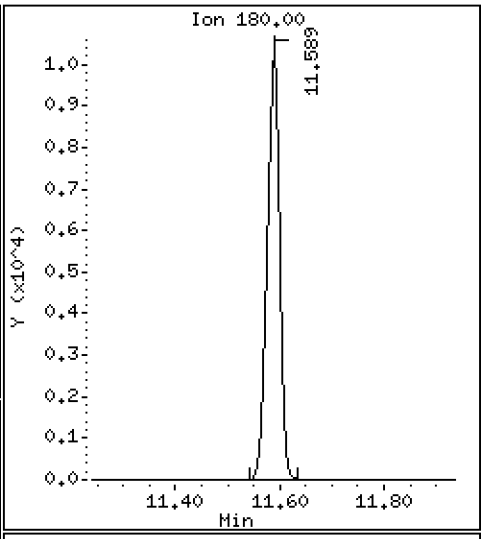
Column phase: ZB-5msi

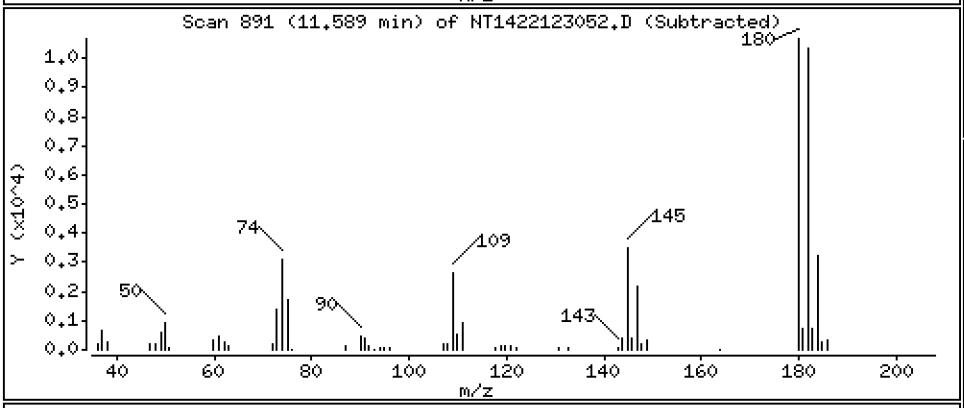
Column diameter: 0.25

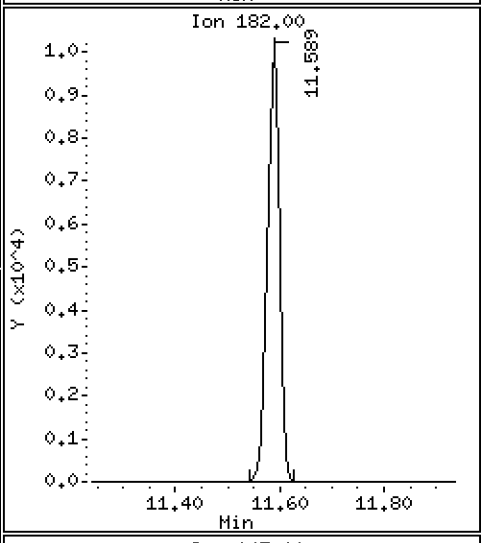
26 1,2,4-Trichlorobenzene

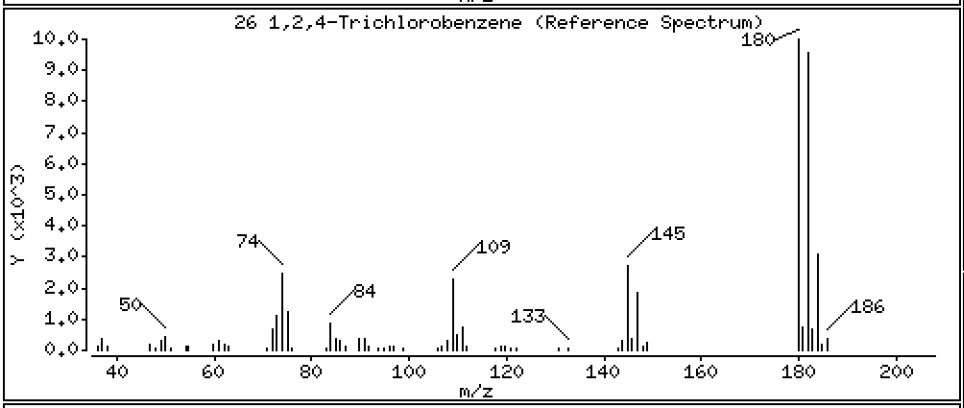
Concentration: 0.4816 ug/mL

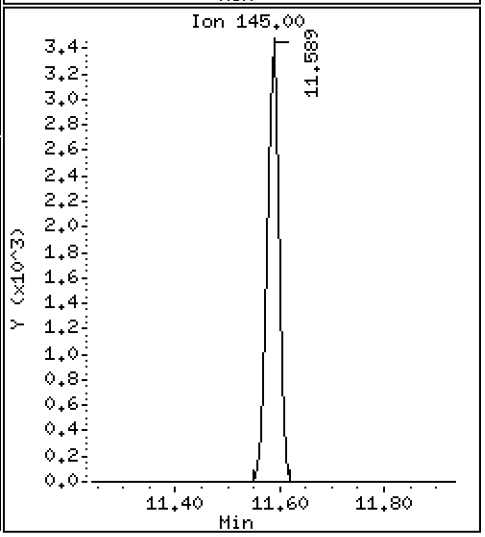


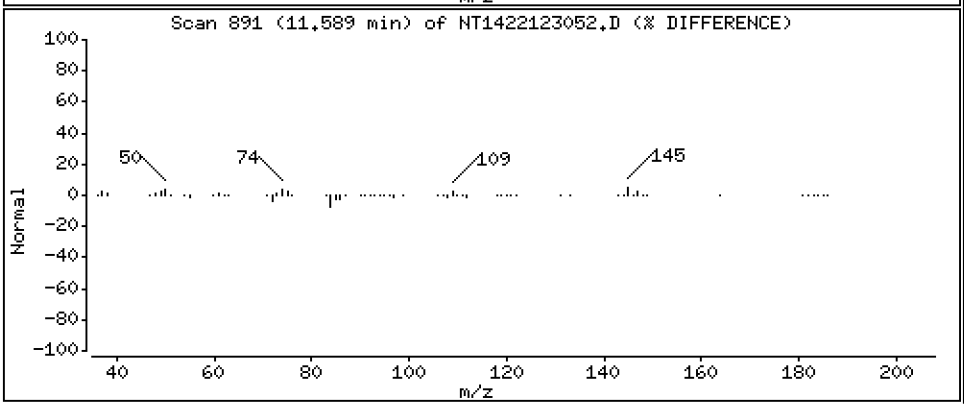












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

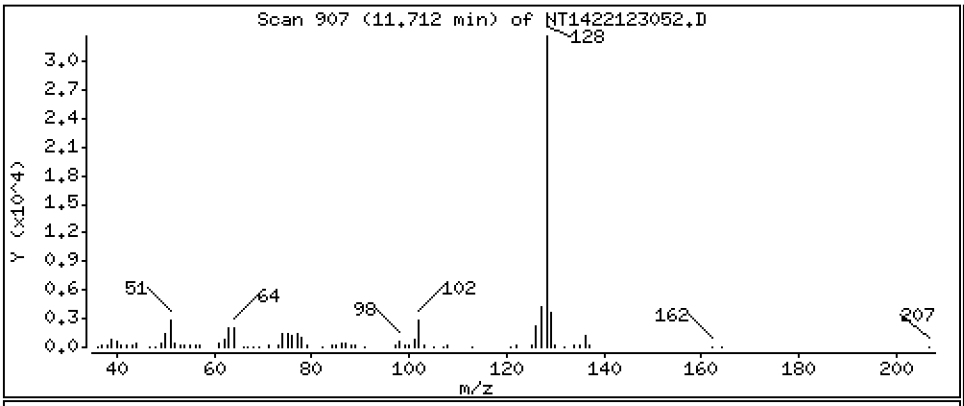
Operator: VTS

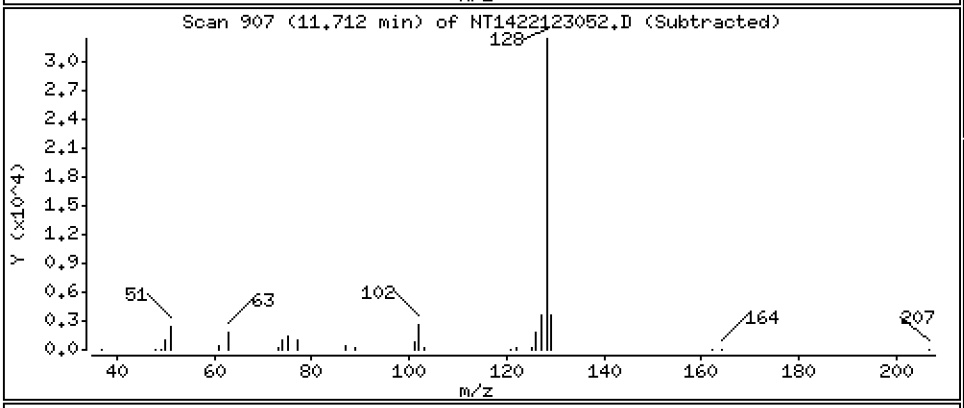
Column phase: ZB-5msi

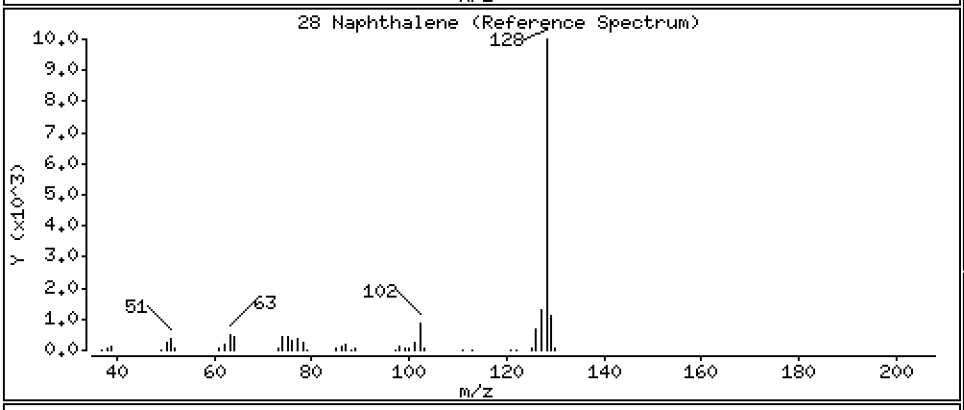
Column diameter: 0.25

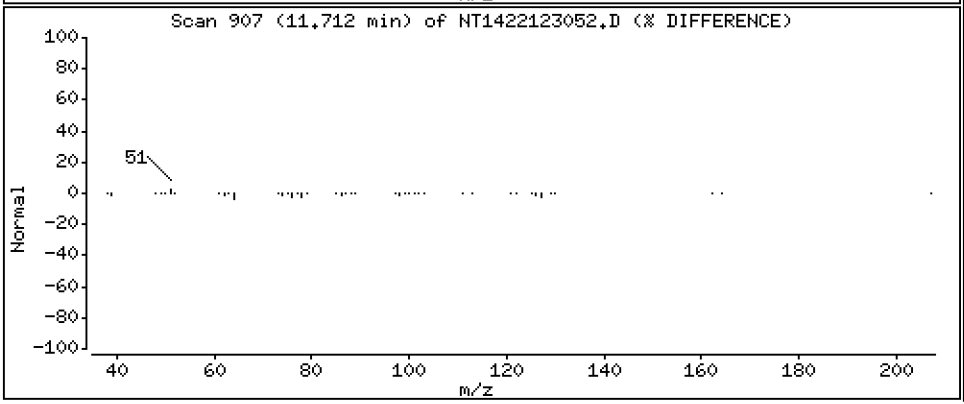
28 Naphthalene

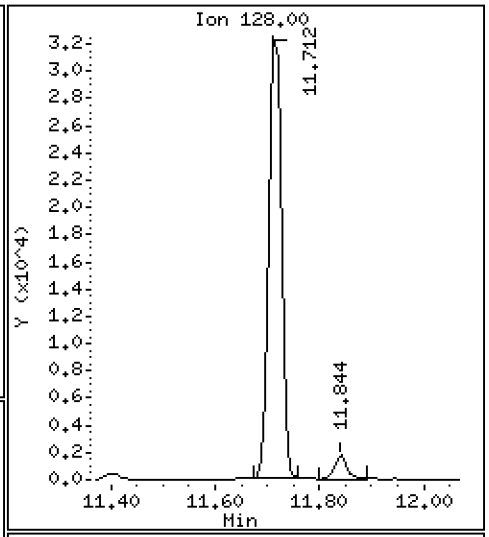
Concentration: 0.4844 ug/mL

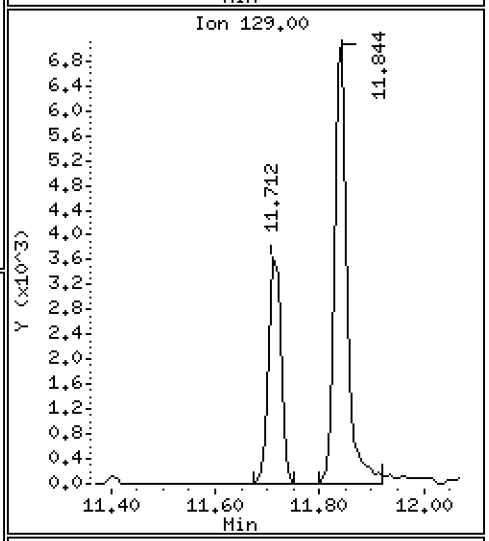


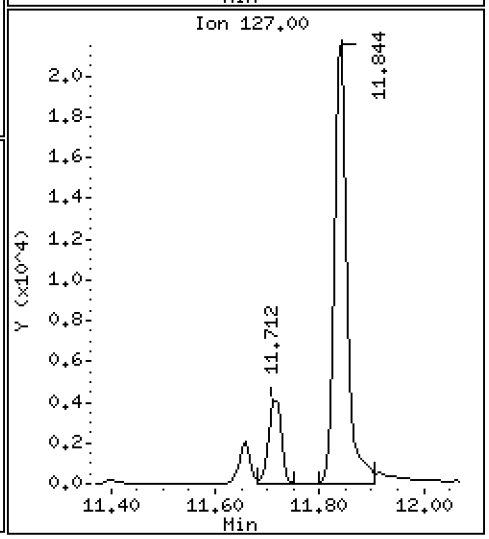












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

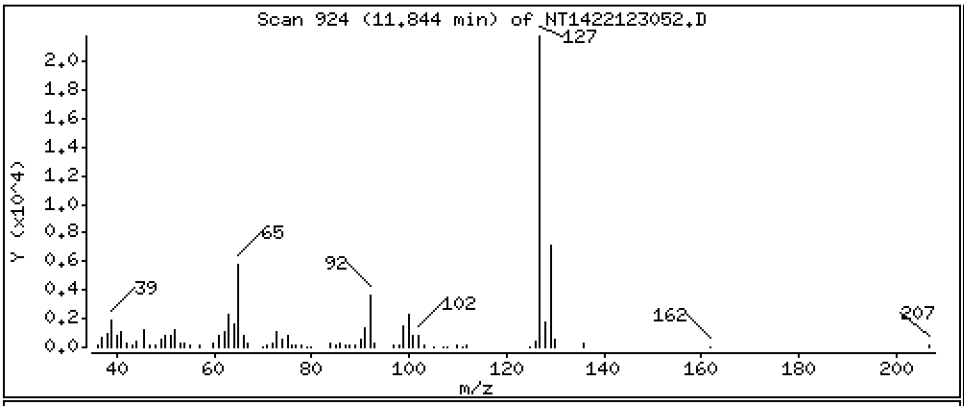
Operator: VTS

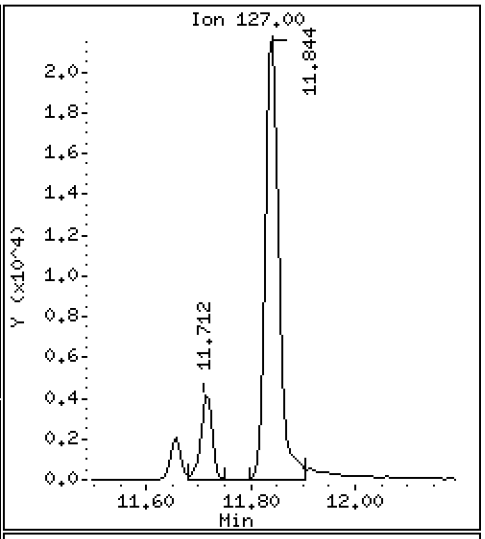
Column phase: ZB-5msi

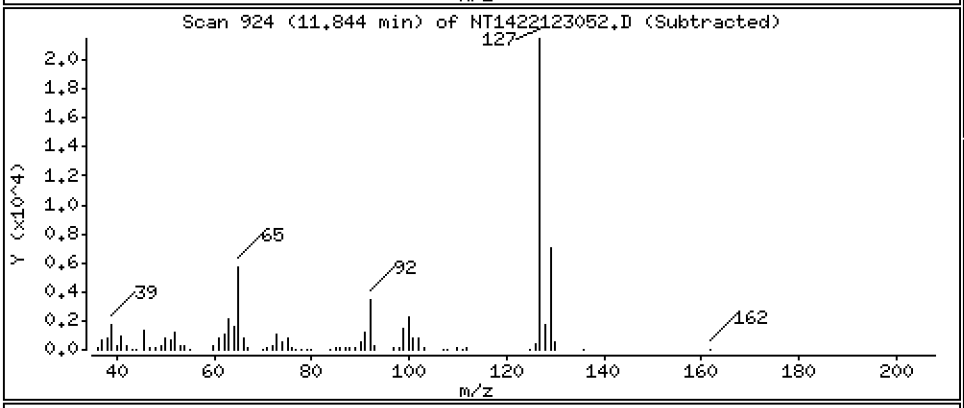
Column diameter: 0.25

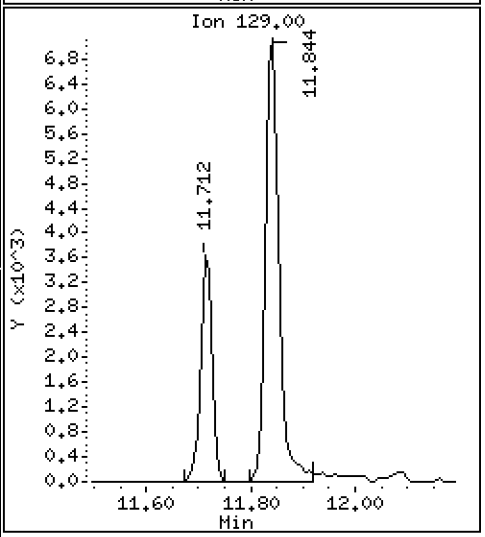
29 4-Chloroaniline

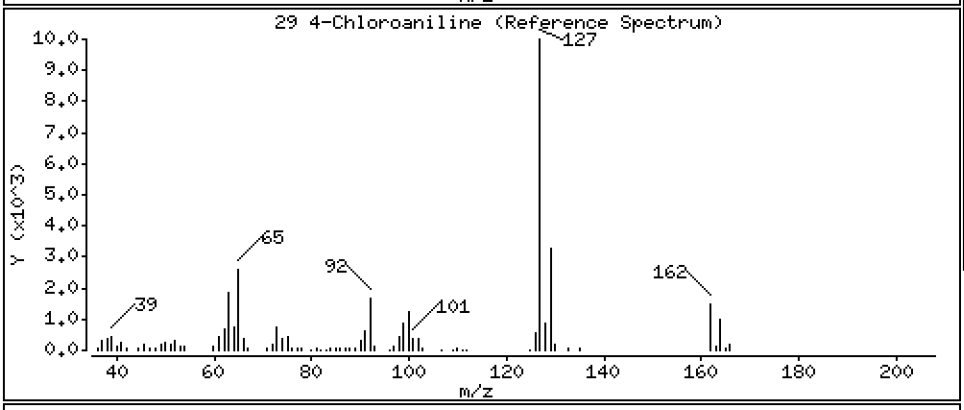
Concentration: 0.8698 ug/mL

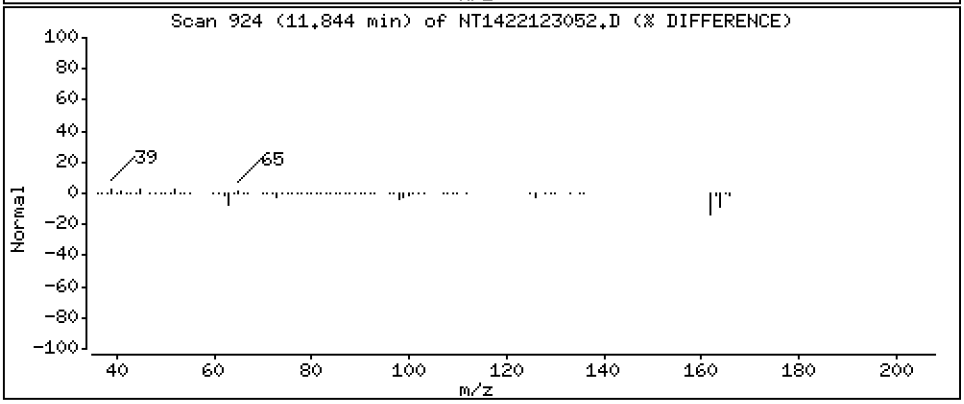












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

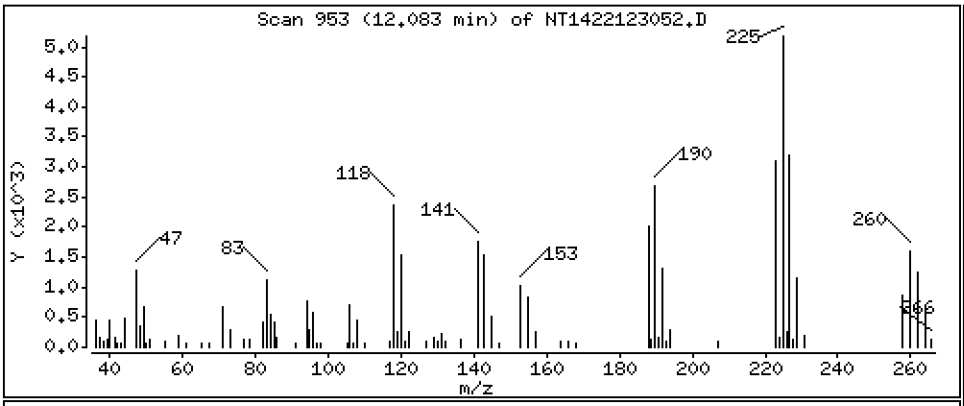
Operator: VTS

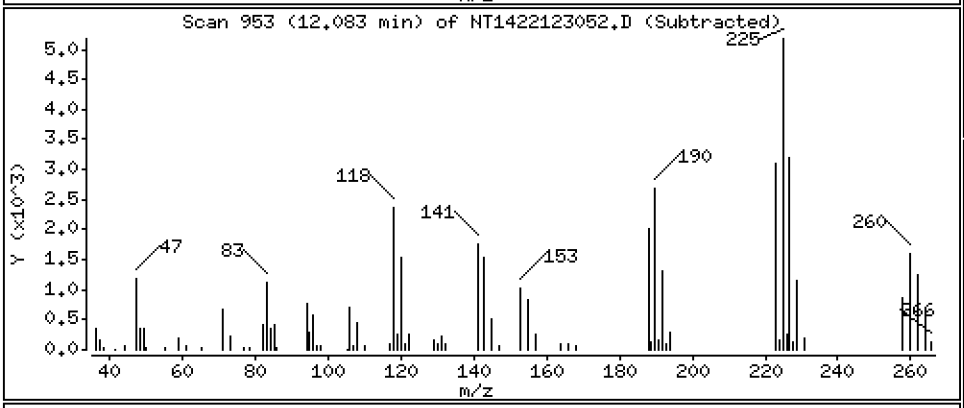
Column phase: ZB-5msi

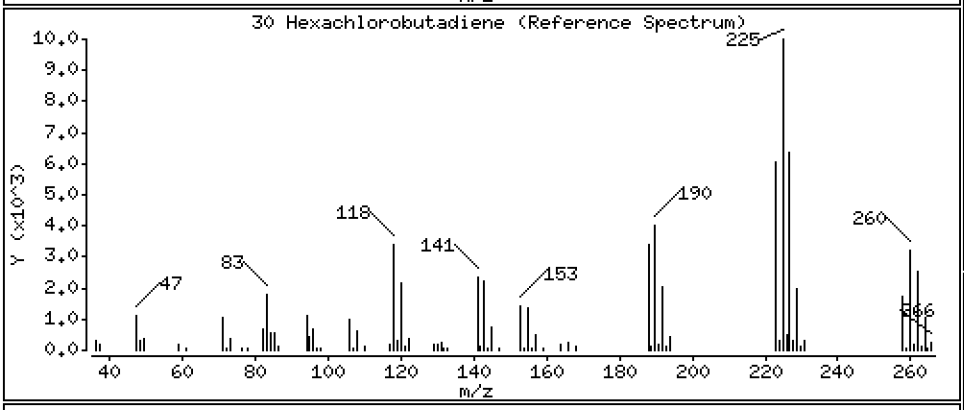
Column diameter: 0.25

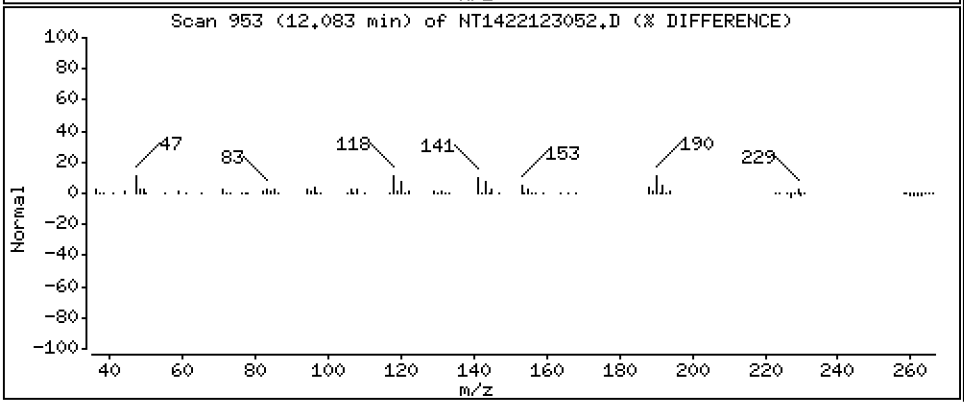
30 Hexachlorobutadiene

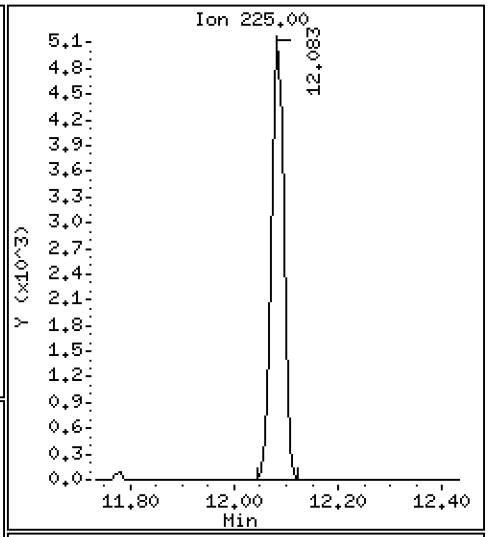
Concentration: 0.4710 ug/mL

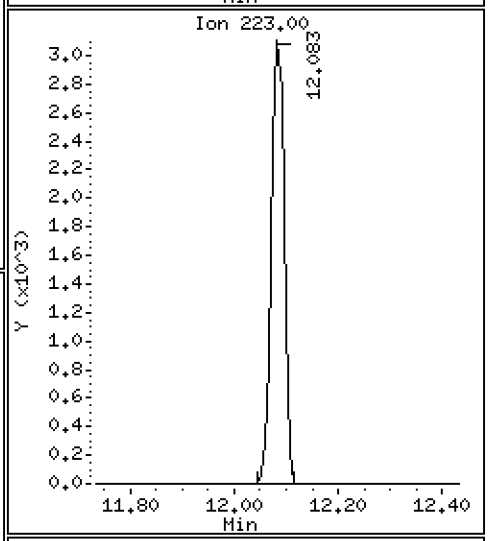


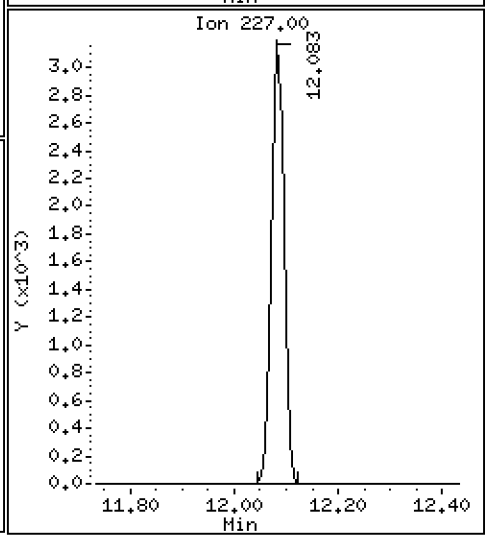












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

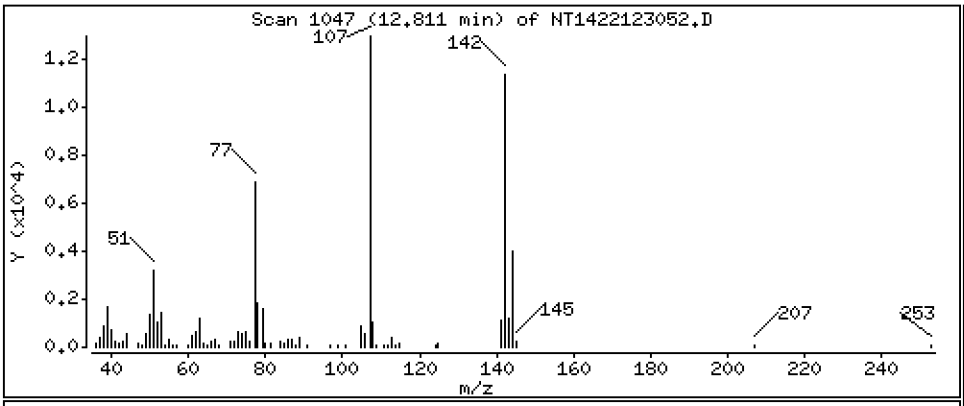
Operator: VTS

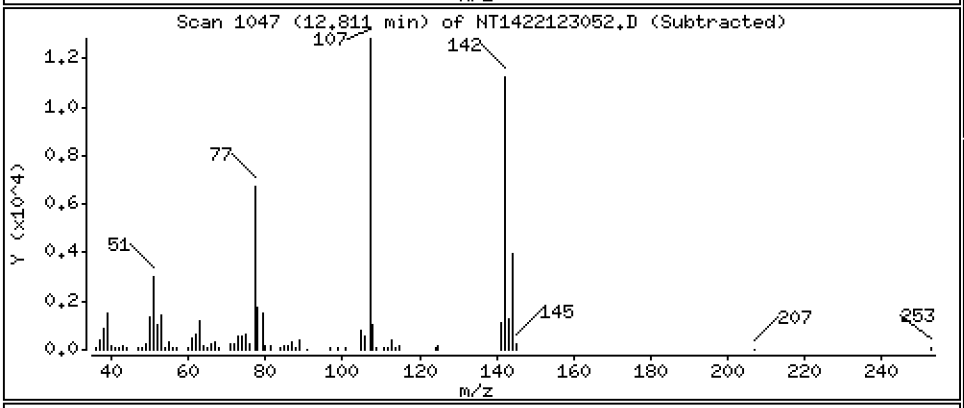
Column phase: ZB-5msi

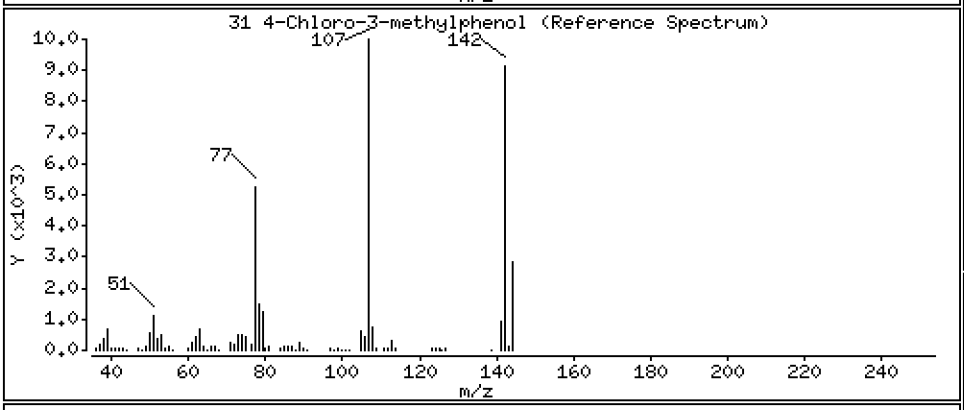
Column diameter: 0.25

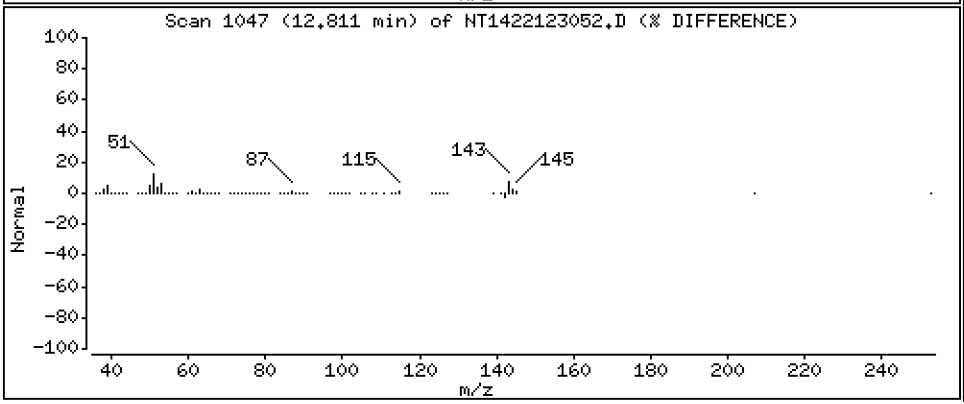
31 4-Chloro-3-methylphenol

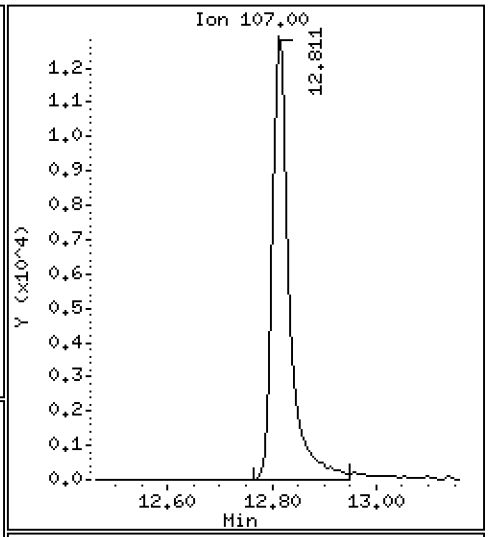
Concentration: 0.9524 ug/mL

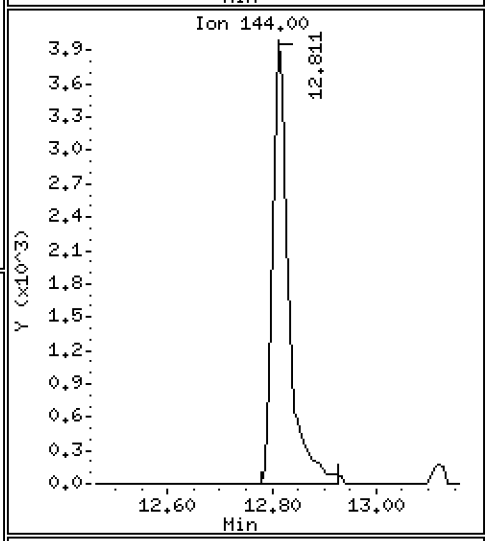


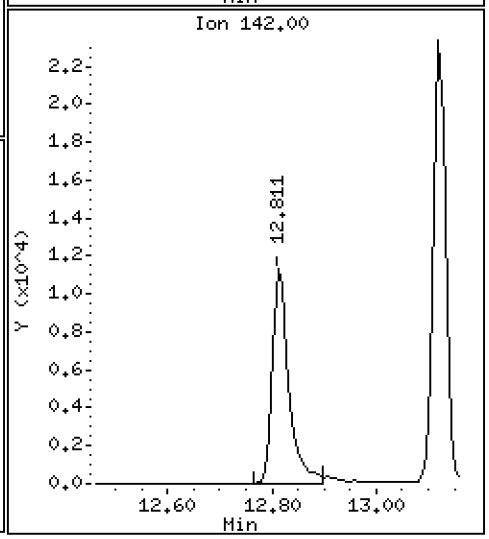












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

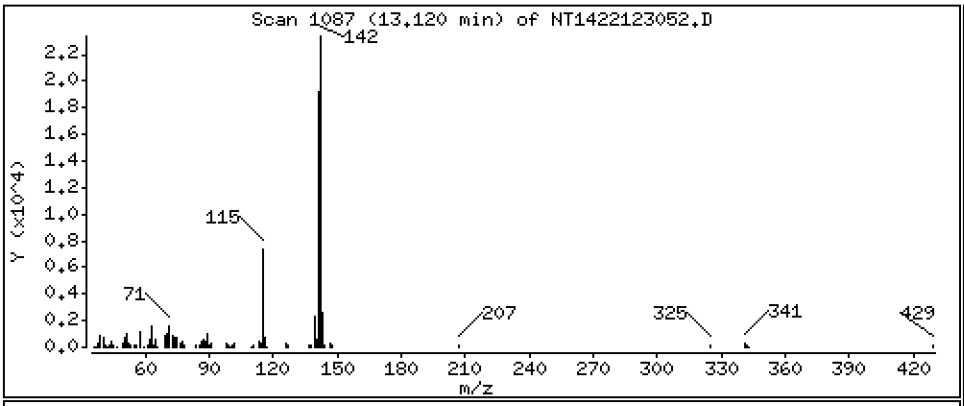
Operator: VTS

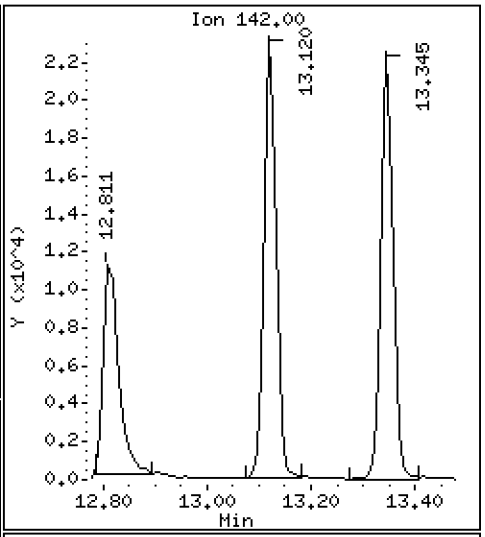
Column phase: ZB-5msi

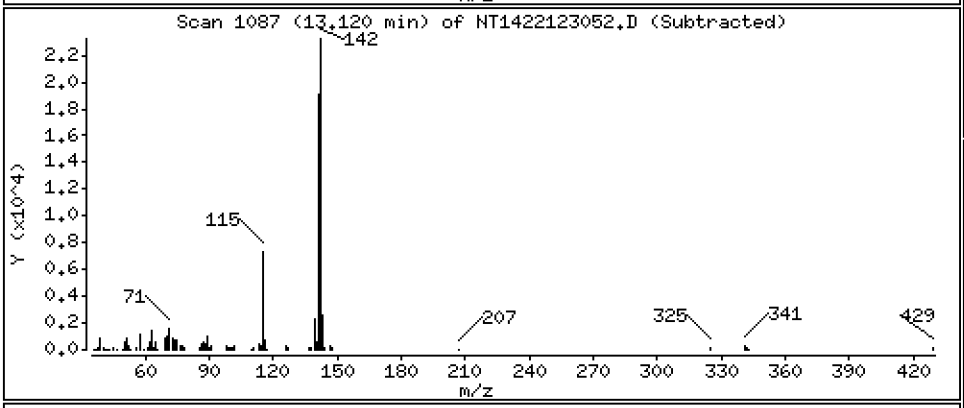
Column diameter: 0.25

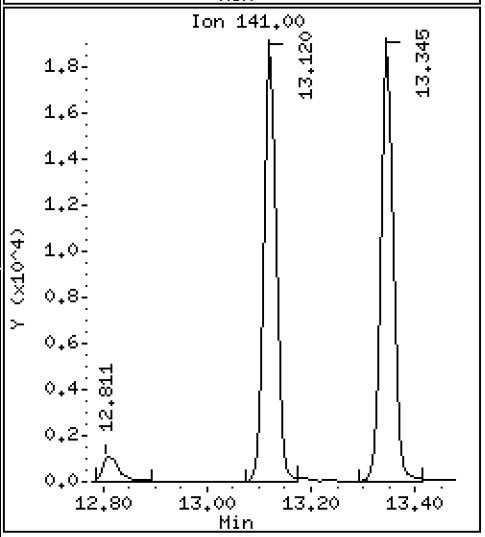
32 2-Methylnaphthalene

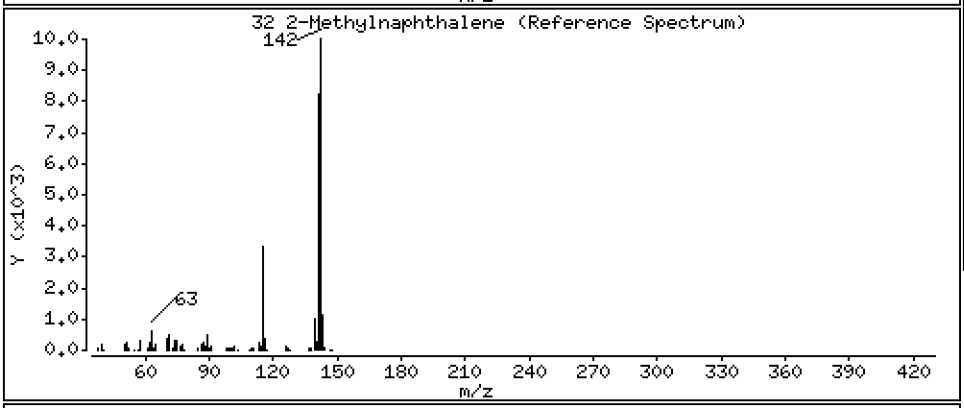
Concentration: 0.4676 ug/mL

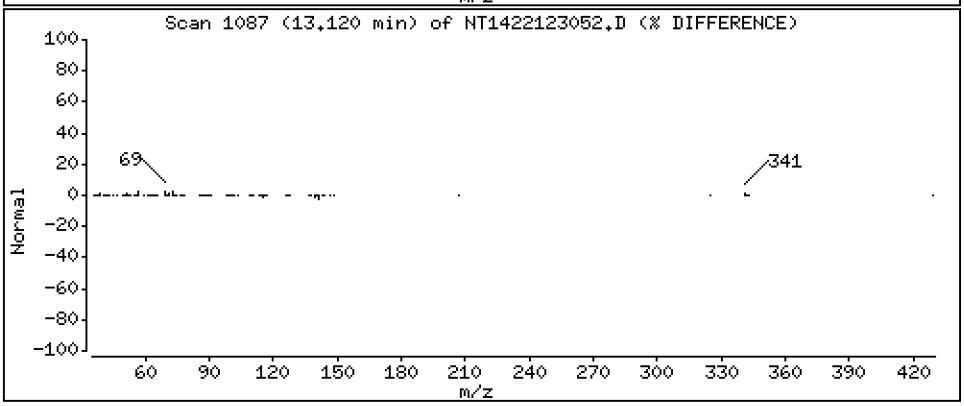












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

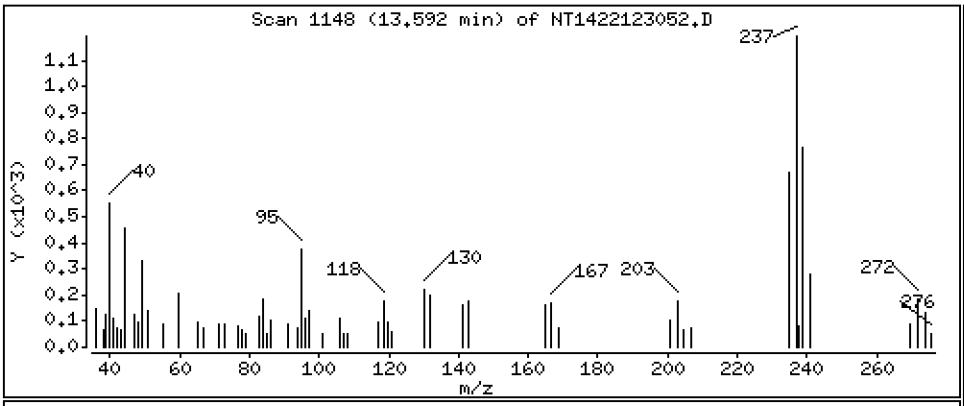
Operator: VTS

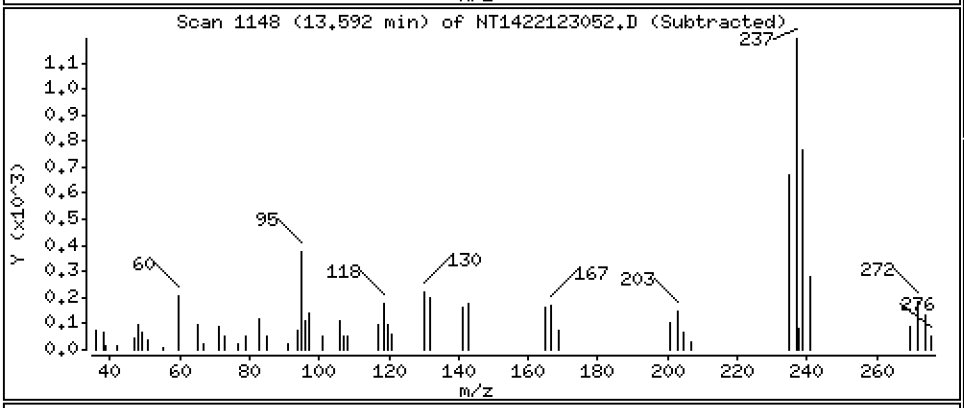
Column phase: ZB-5msi

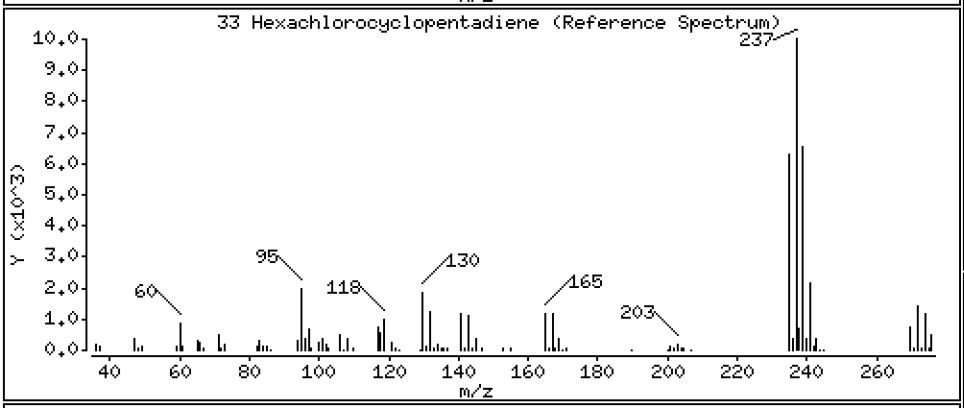
Column diameter: 0.25

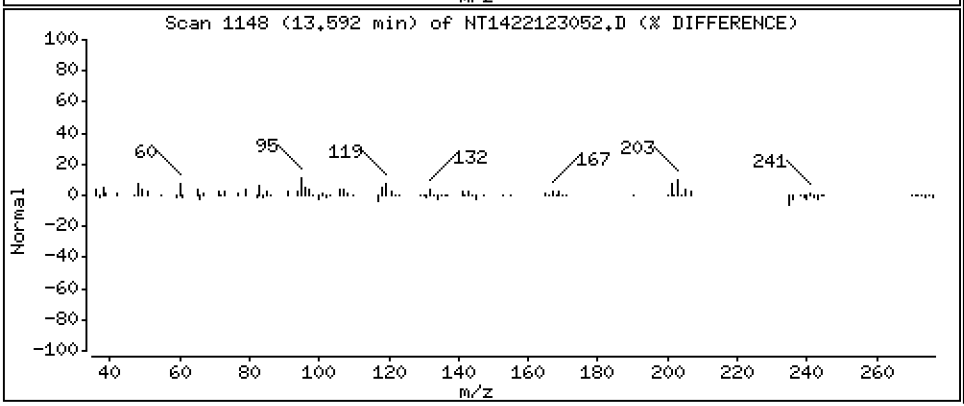
33 Hexachlorocyclopentadiene

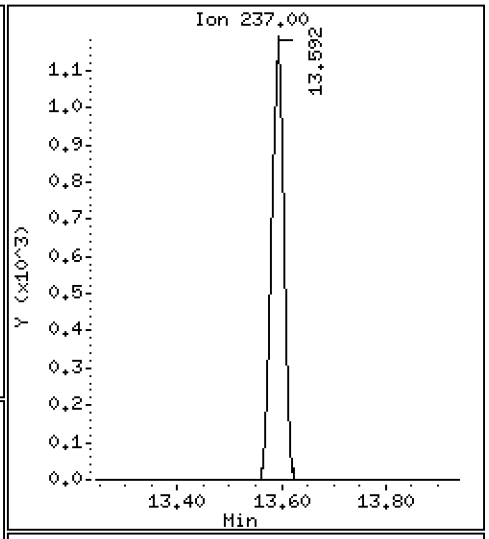
Concentration: 0.1074 ug/mL

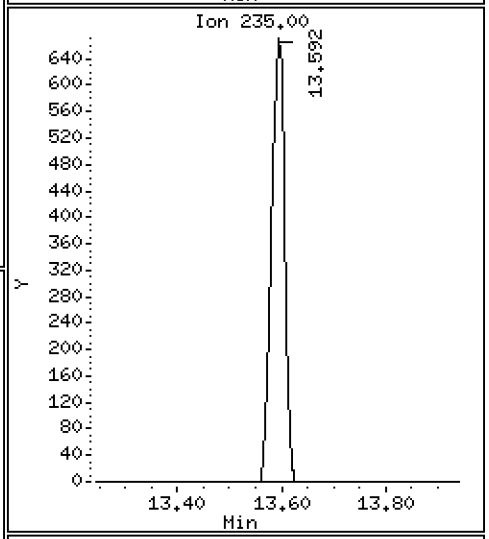


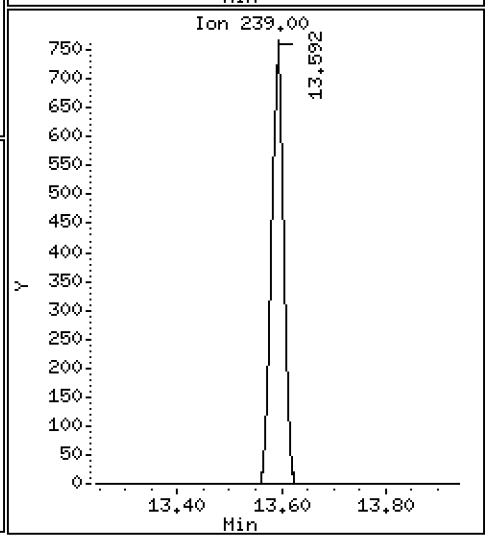












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

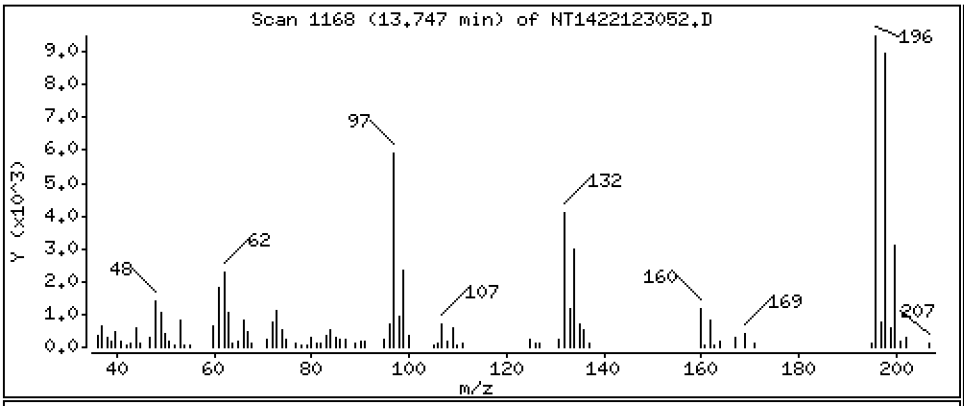
Operator: VTS

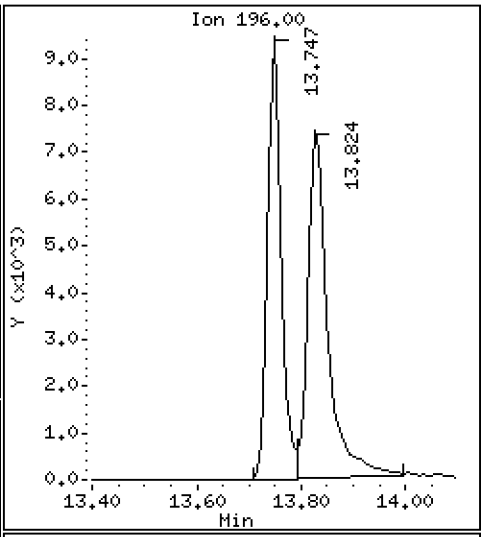
Column phase: ZB-5msi

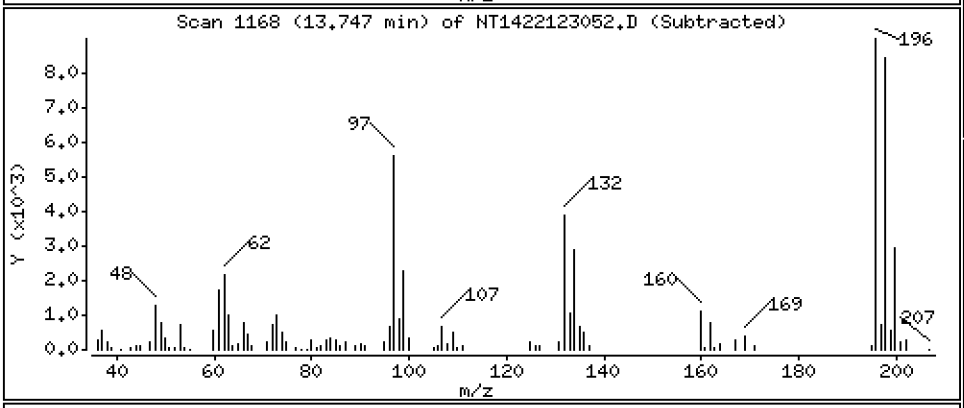
Column diameter: 0.25

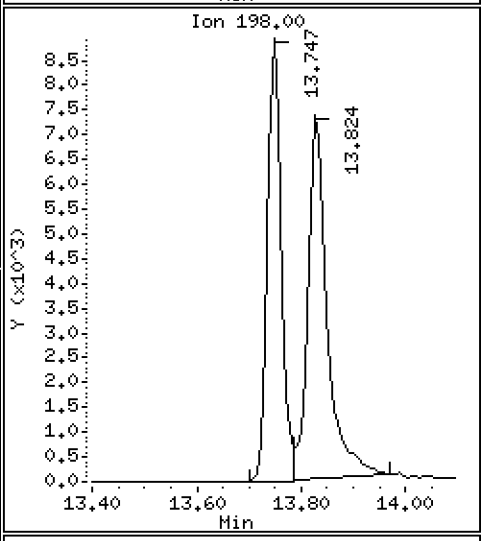
34 2,4,6-Trichlorophenol

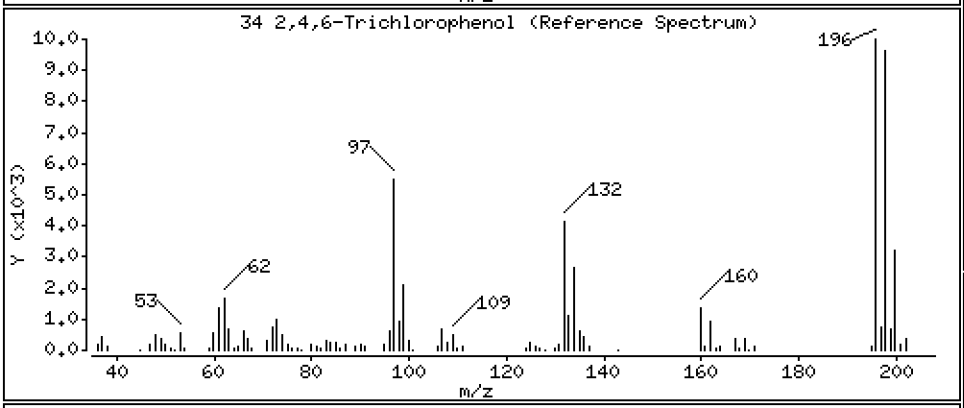
Concentration: 0.8903 ug/mL

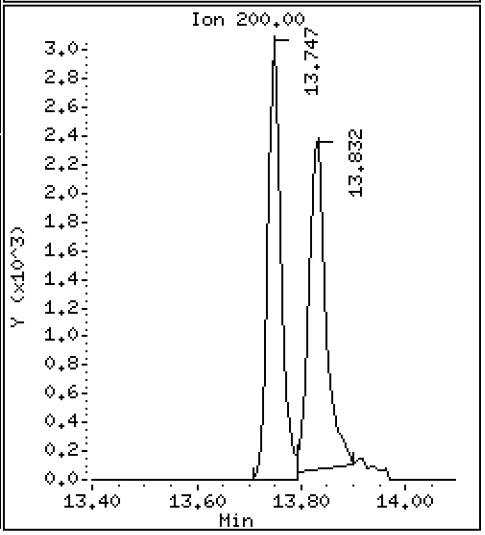


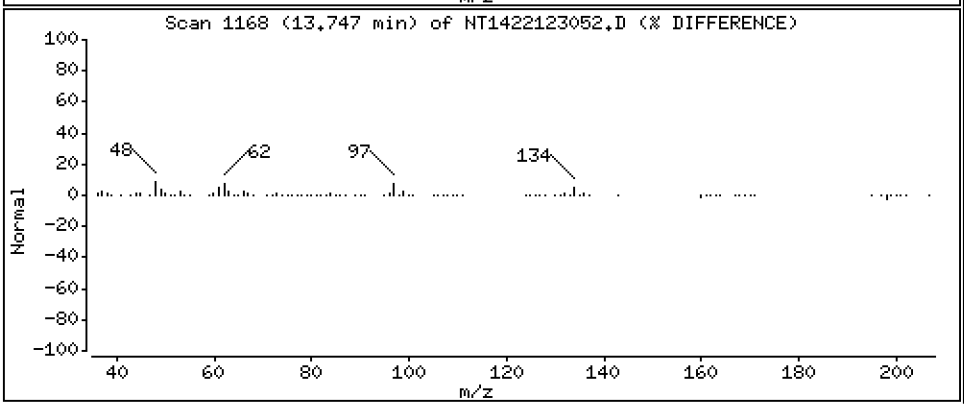












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

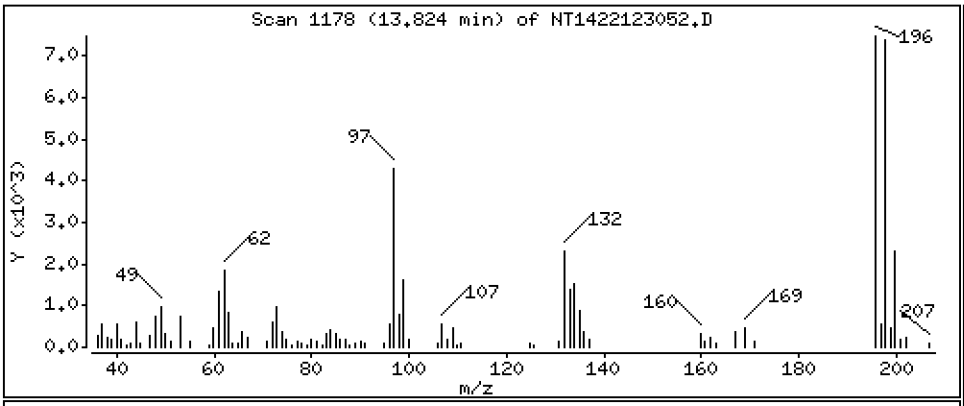
Operator: VTS

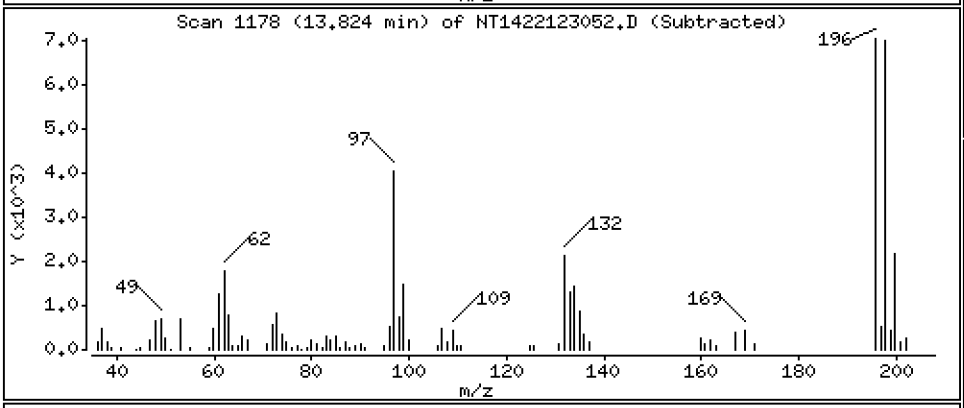
Column phase: ZB-5msi

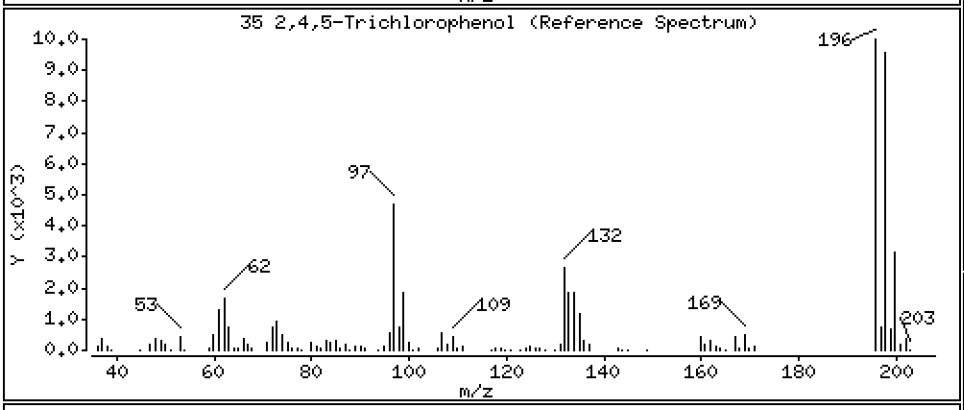
Column diameter: 0.25

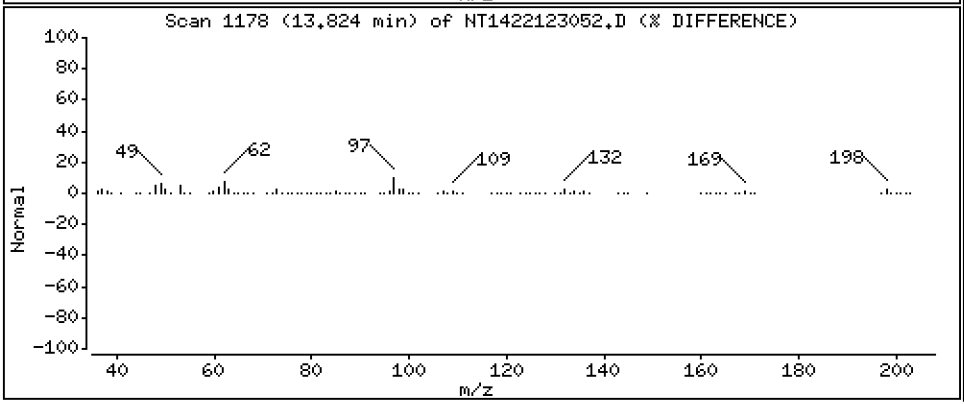
35 2,4,5-Trichlorophenol

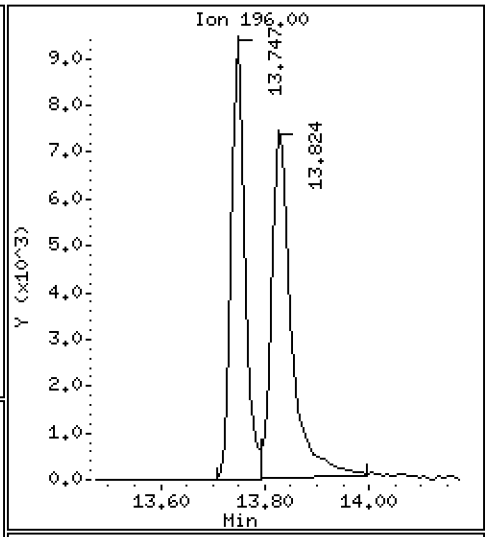
Concentration: 0.8994 ug/mL

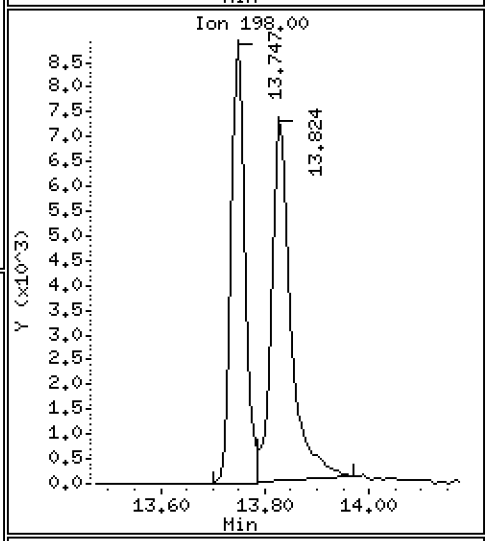


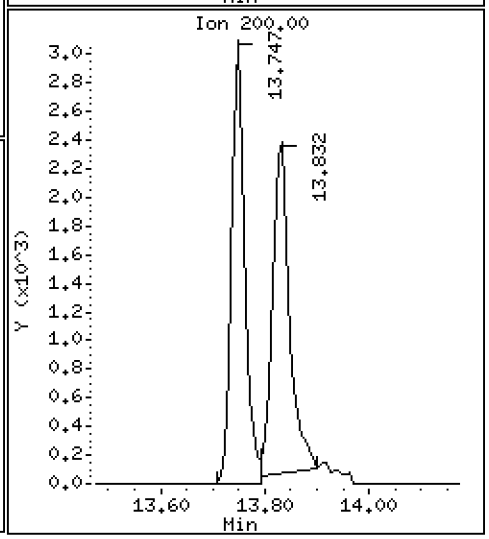












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

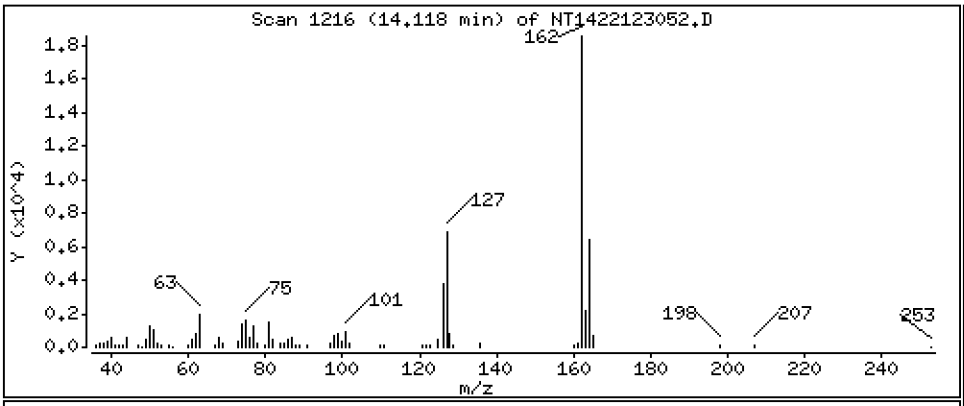
Operator: VTS

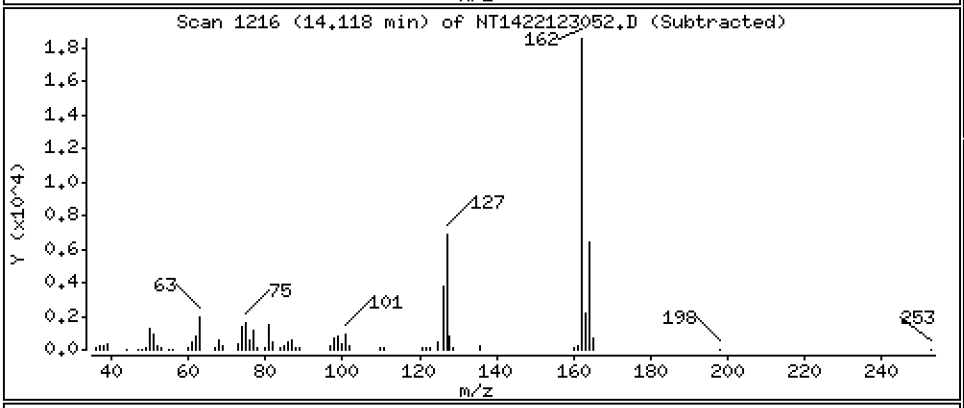
Column phase: ZB-5msi

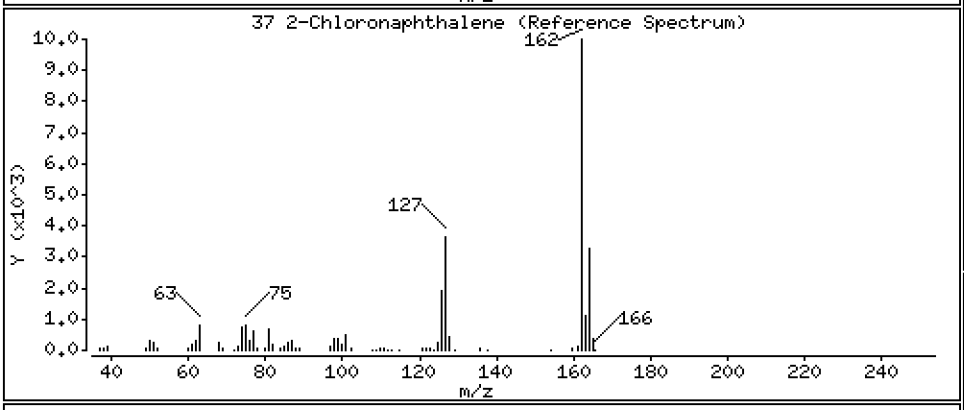
Column diameter: 0.25

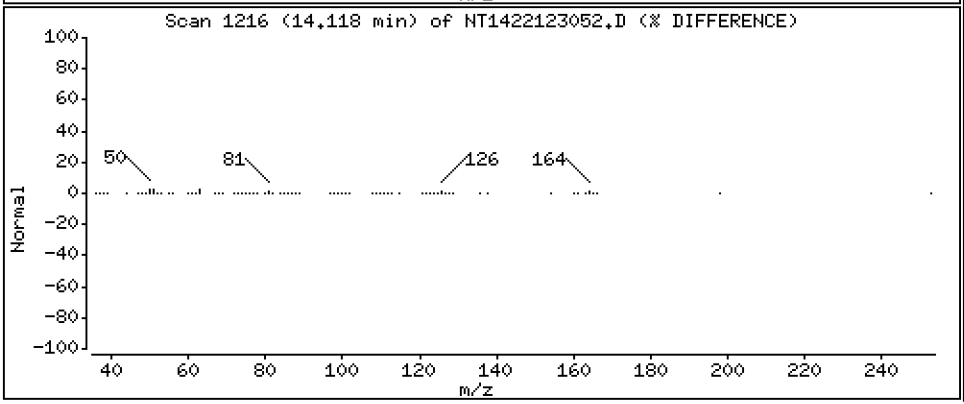
37 2-Chloronaphthalene

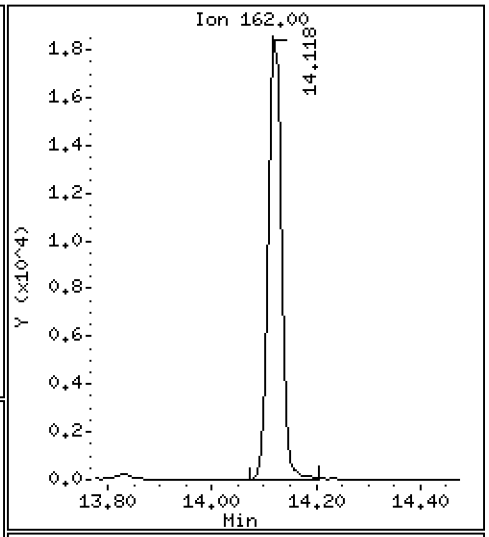
Concentration: 0.4882 ug/mL

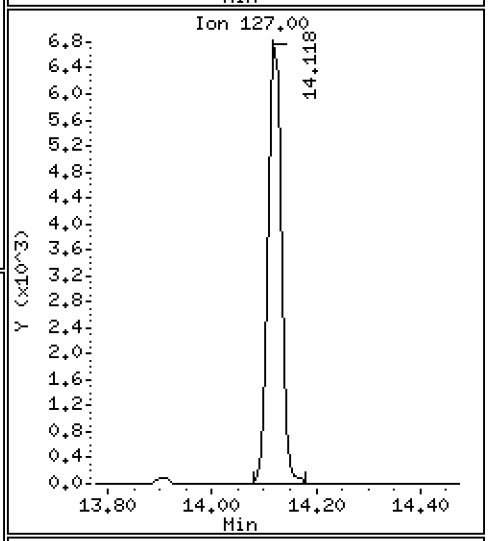


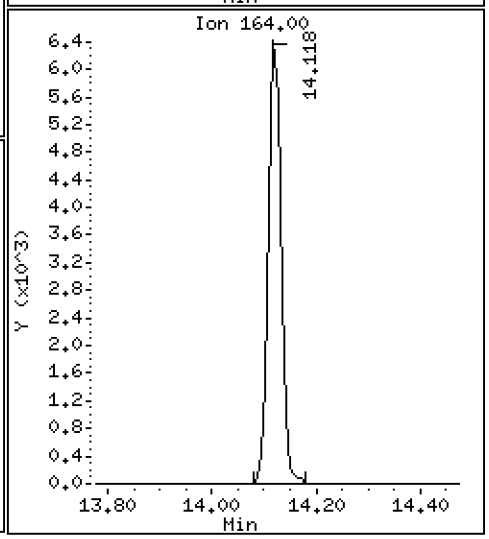












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

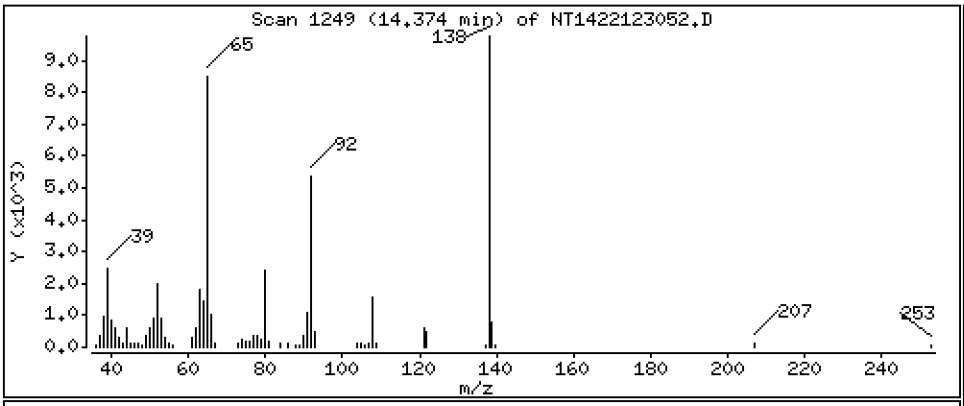
Operator: VTS

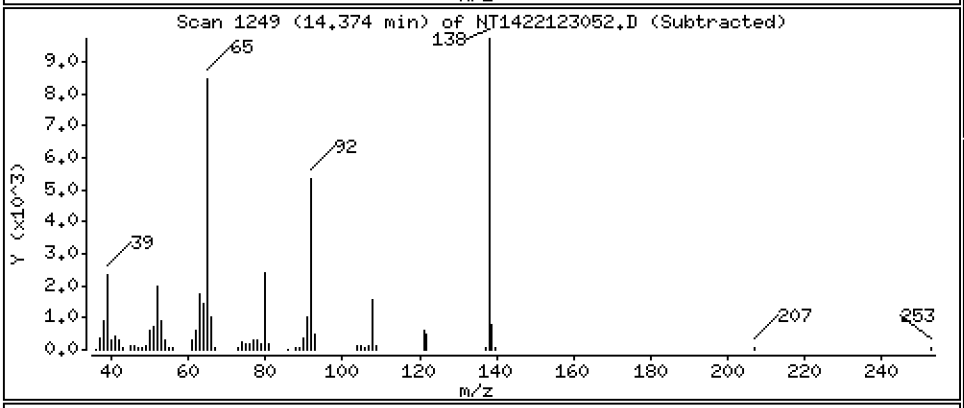
Column phase: ZB-5msi

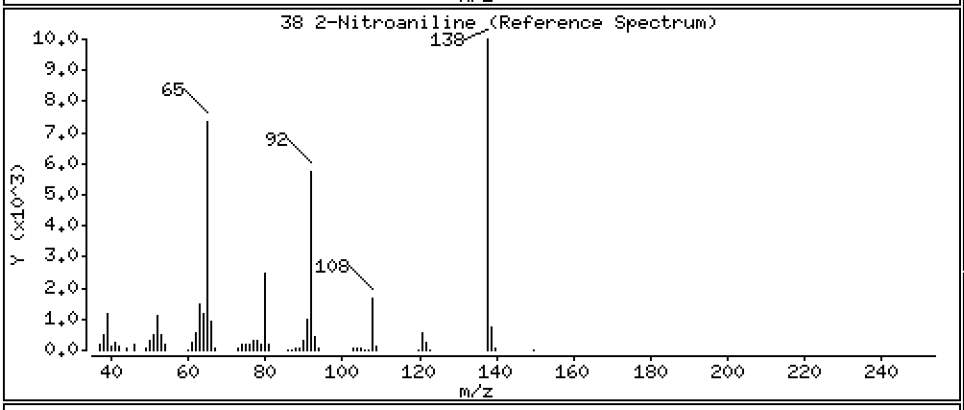
Column diameter: 0.25

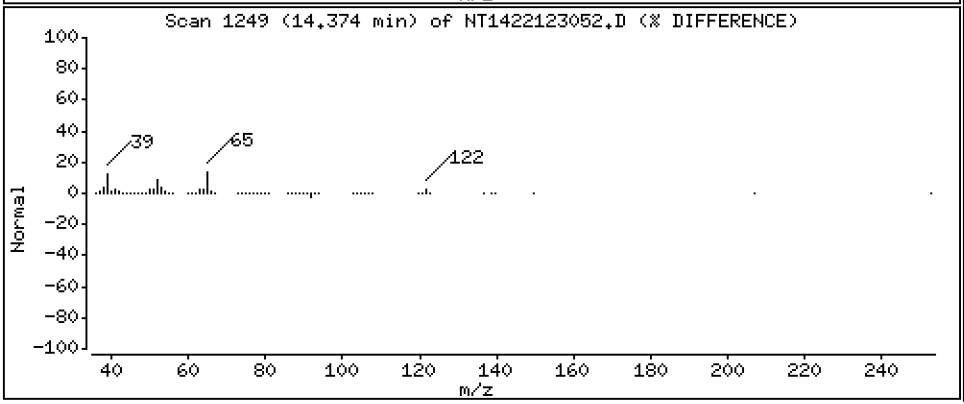
38 2-Nitroaniline

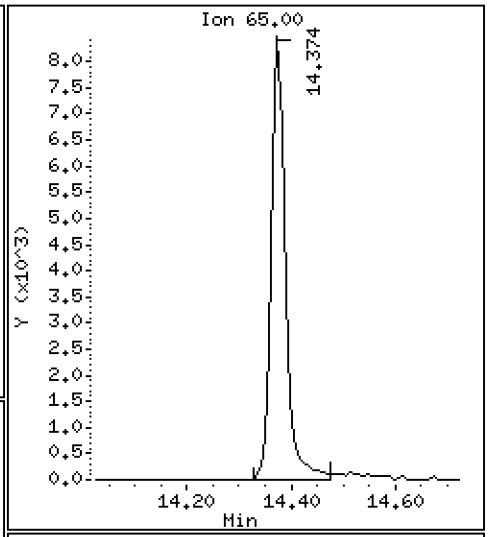
Concentration: 0.9202 ug/mL

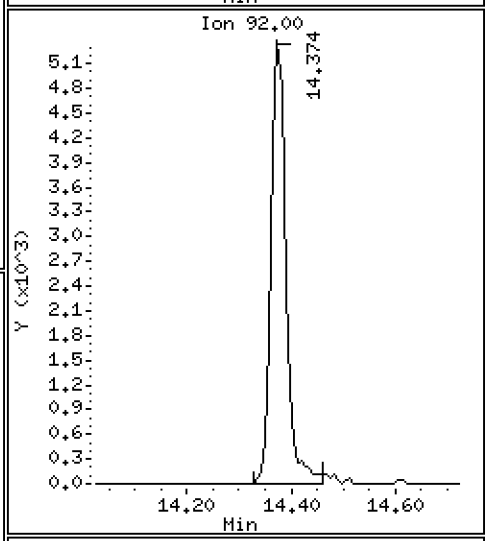


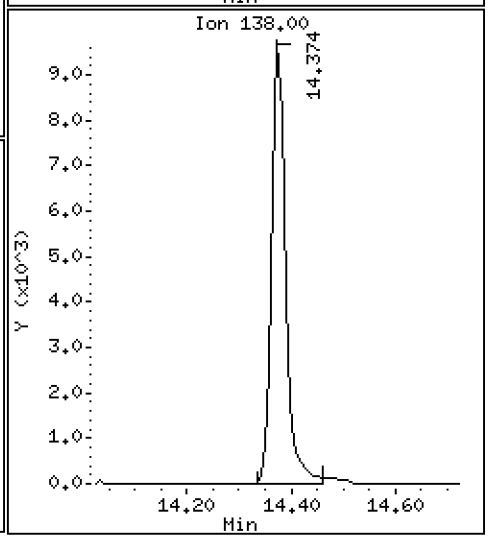












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

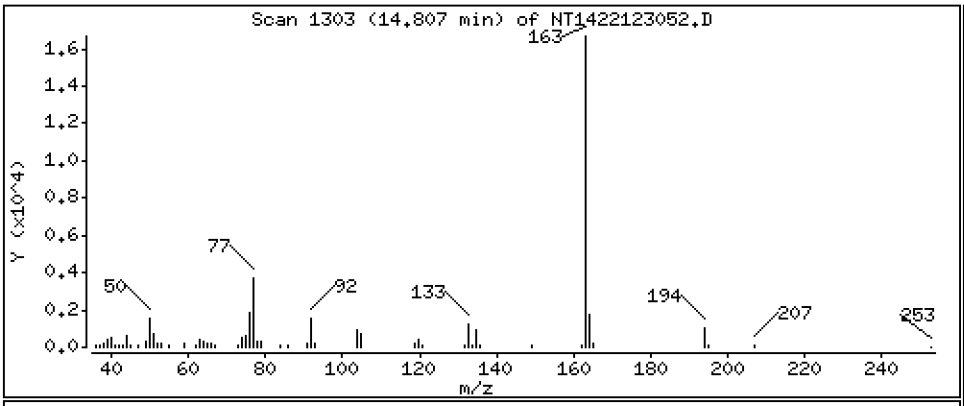
Operator: VTS

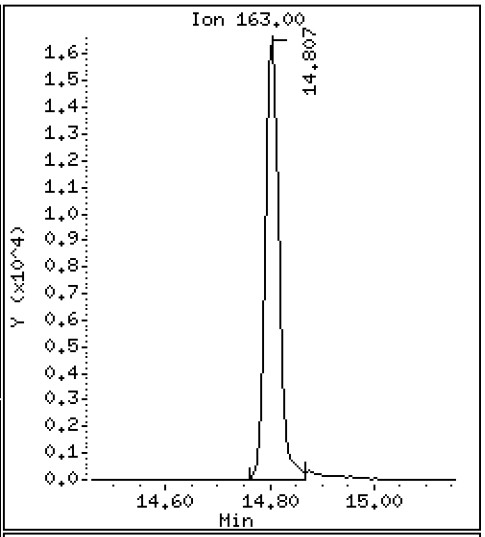
Column phase: ZB-5msi

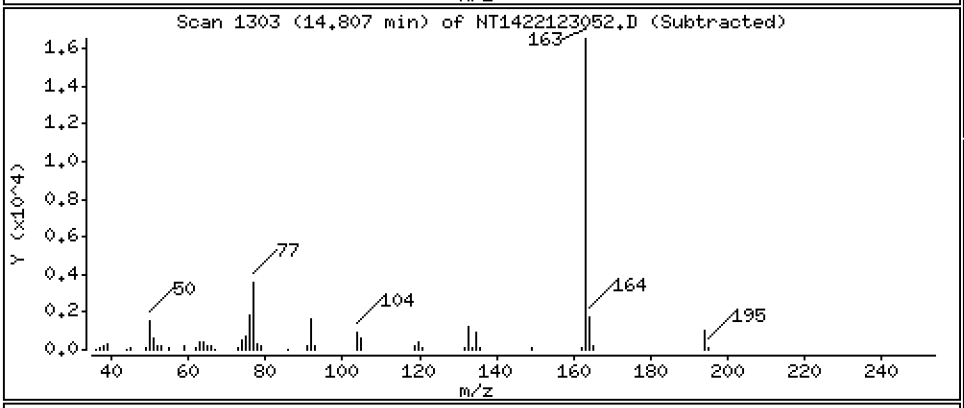
Column diameter: 0.25

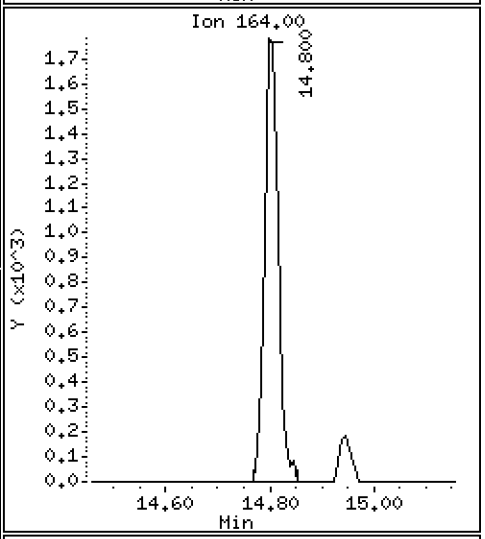
39 Dimethylphthalate

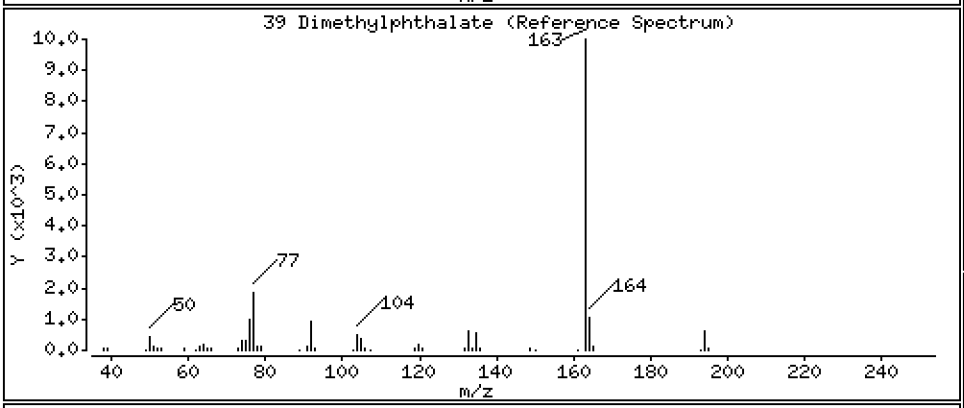
Concentration: 0.4656 ug/mL

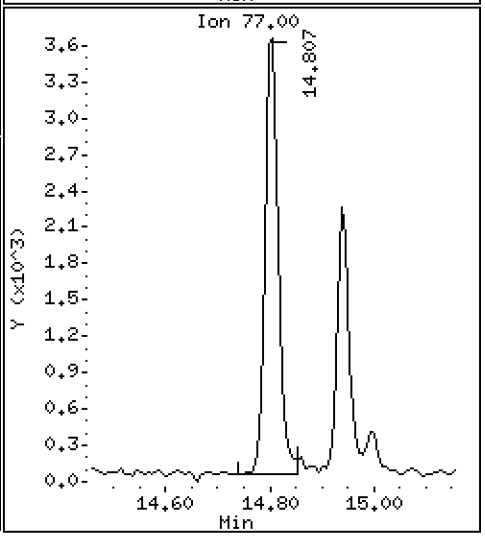


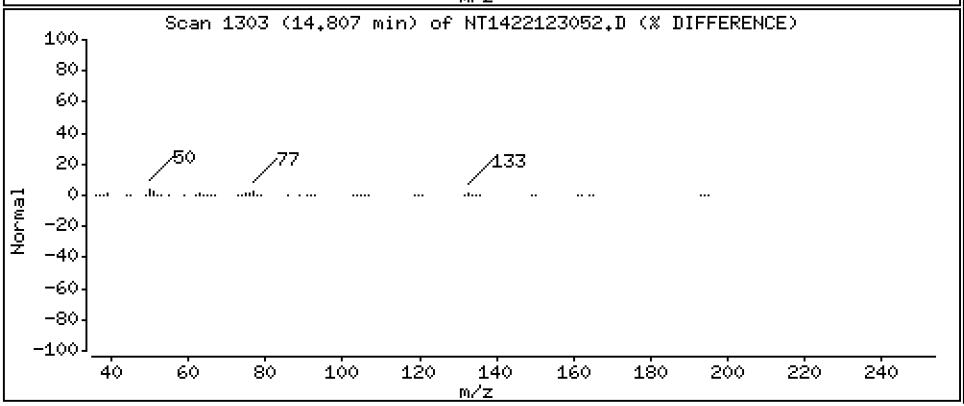












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

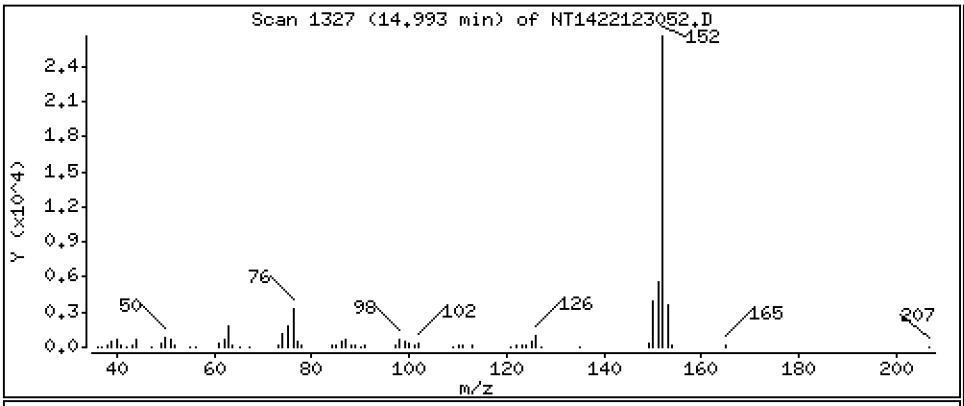
Operator: VTS

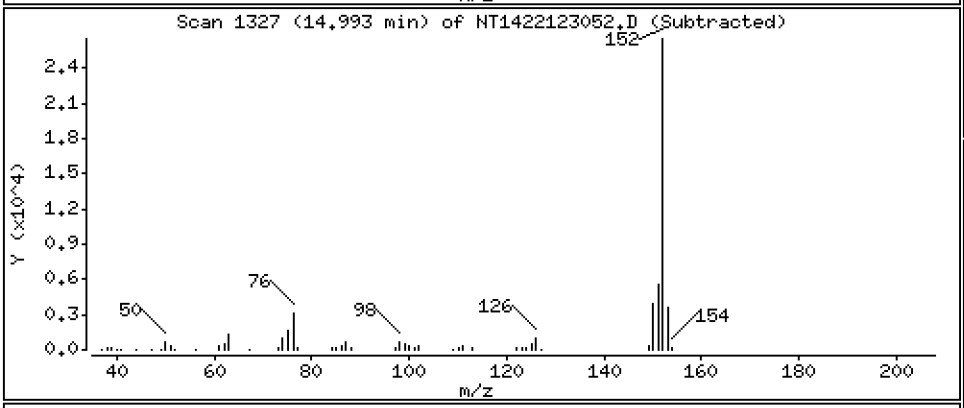
Column phase: ZB-5msi

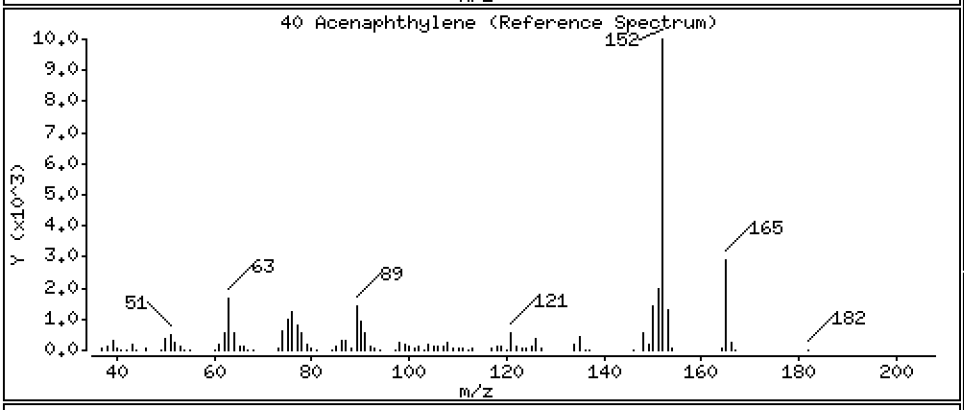
Column diameter: 0.25

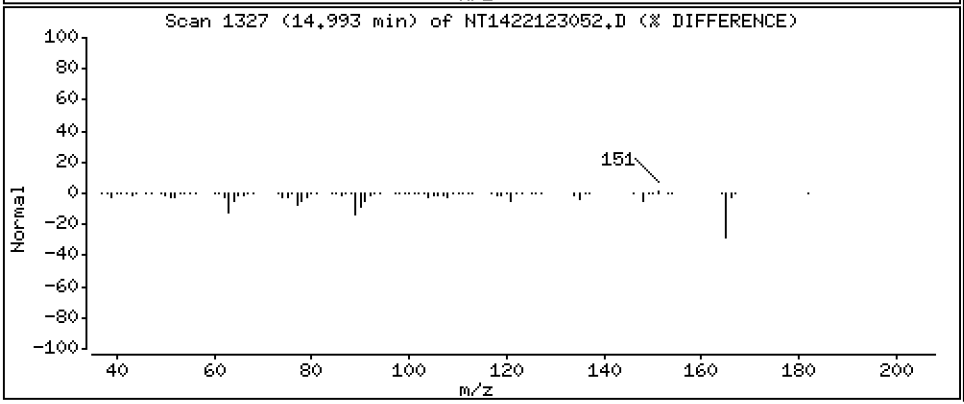
40 Acenaphthylene

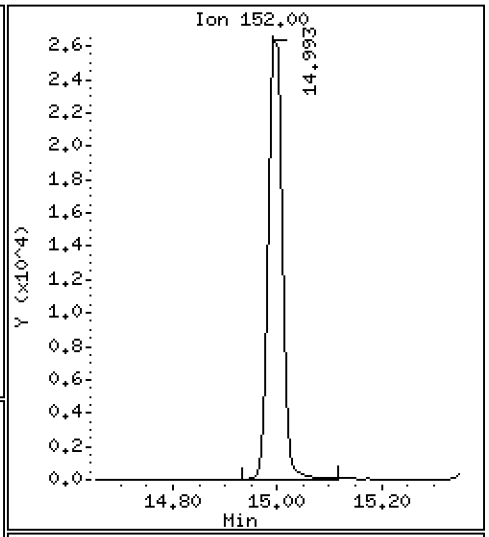
Concentration: 0.5321 ug/mL

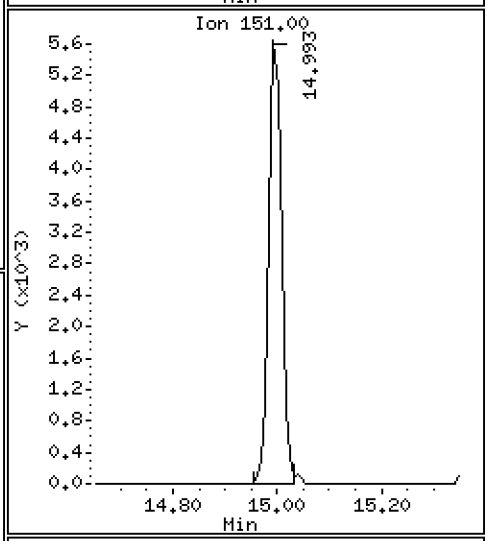


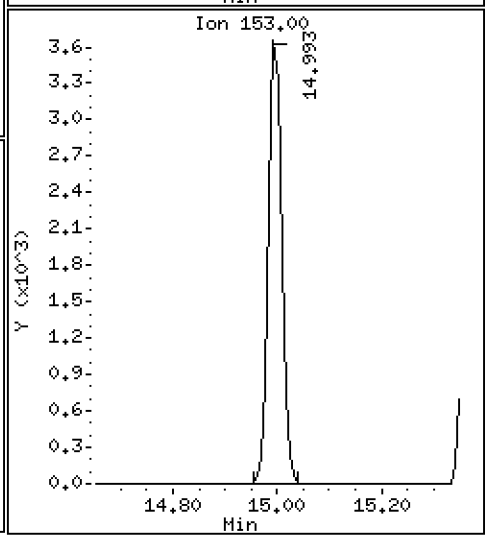












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

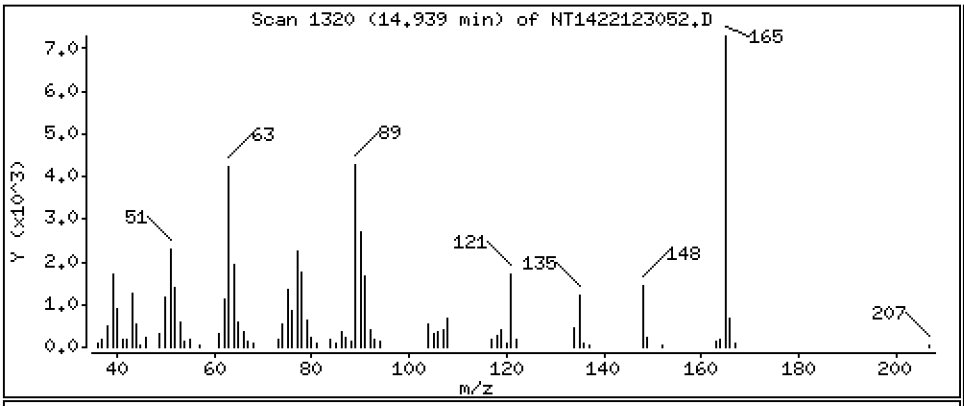
Operator: VTS

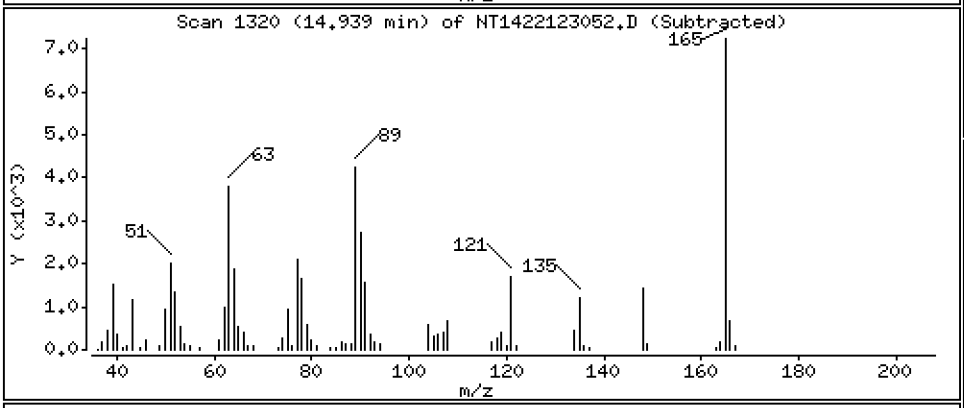
Column phase: ZB-5msi

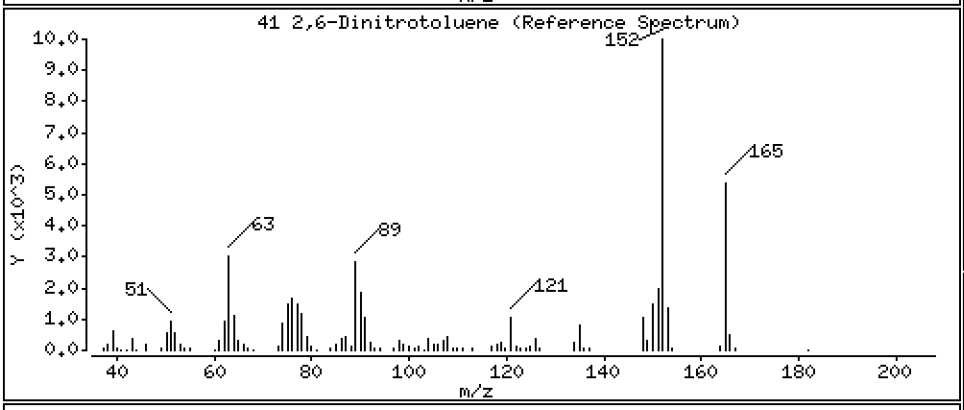
Column diameter: 0.25

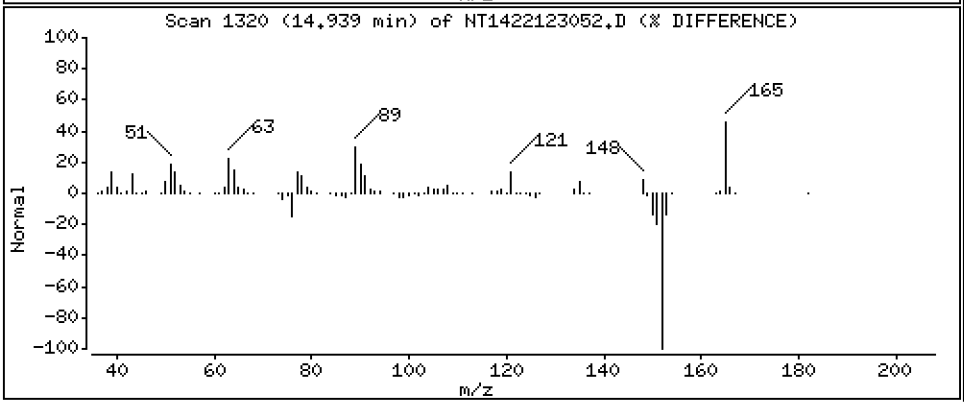
41 2,6-Dinitrotoluene

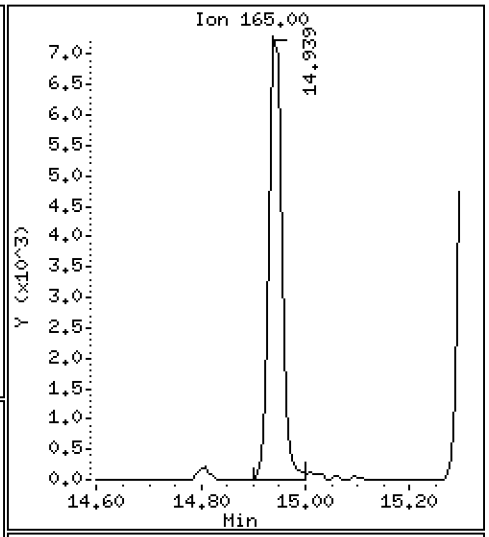
Concentration: 0.8515 ug/mL

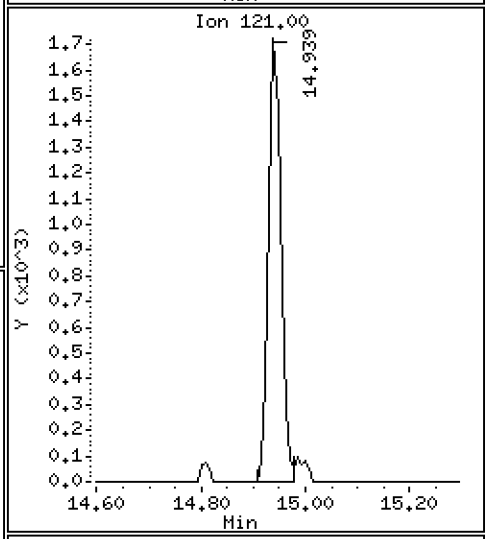


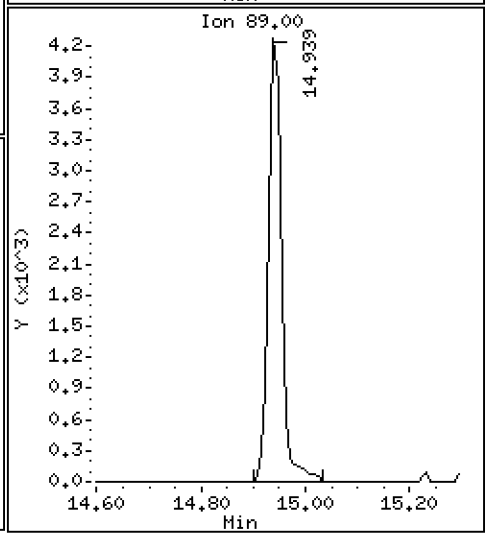












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

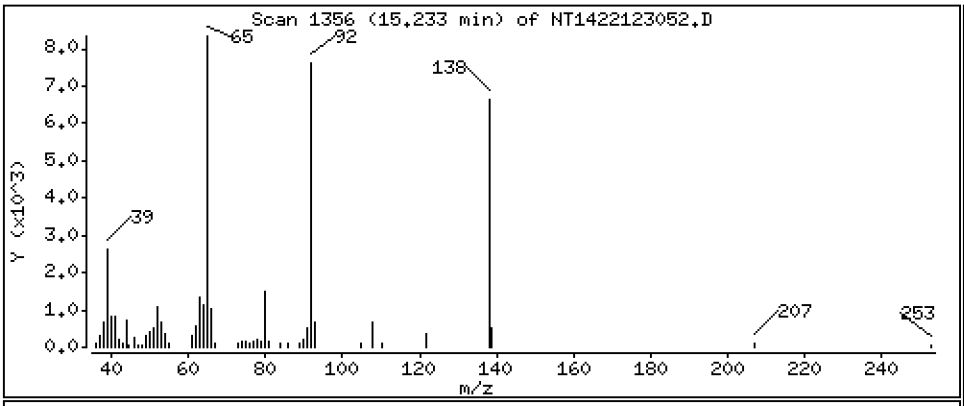
Operator: VTS

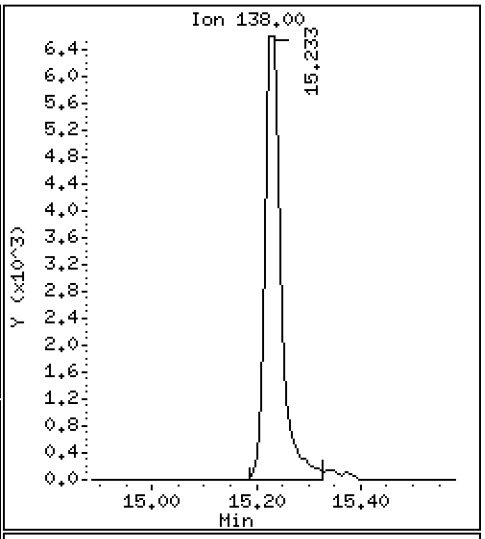
Column phase: ZB-5msi

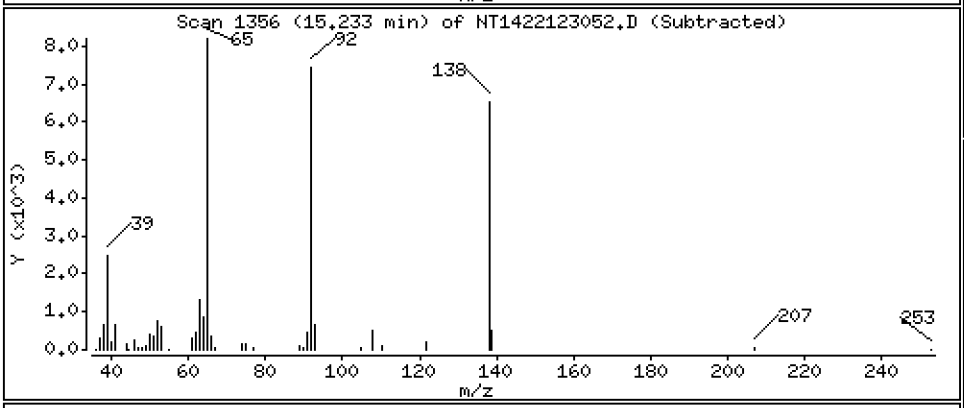
Column diameter: 0.25

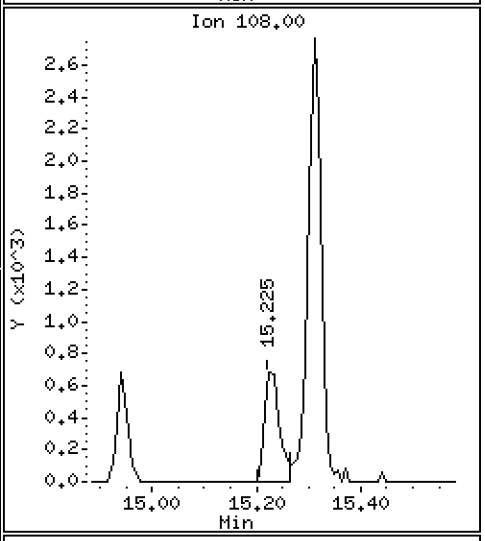
43 3-Nitroaniline

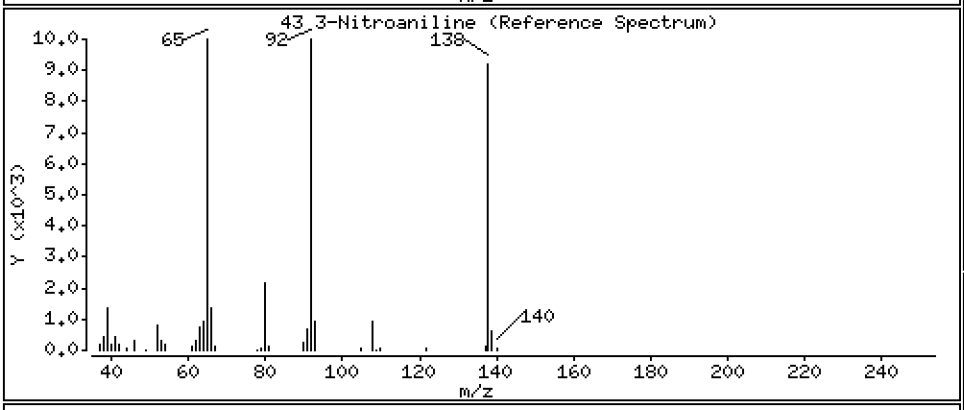
Concentration: 0.8004 ug/mL

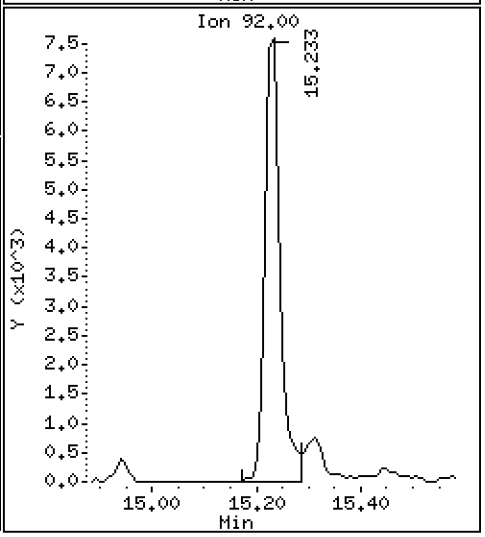


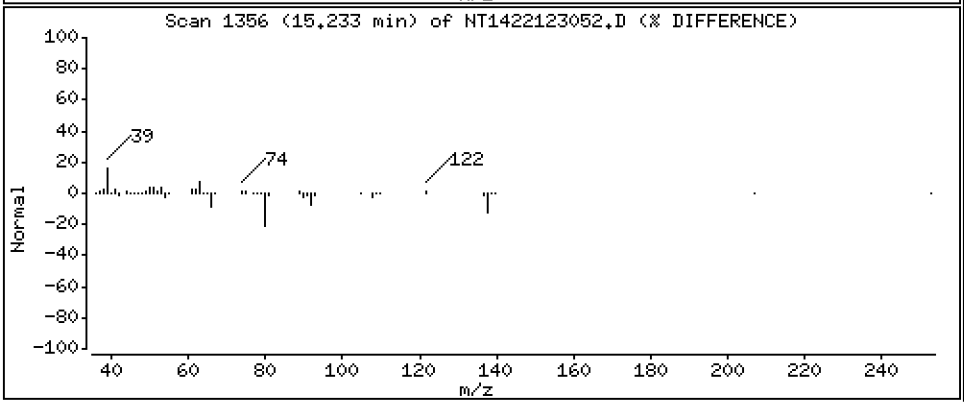












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

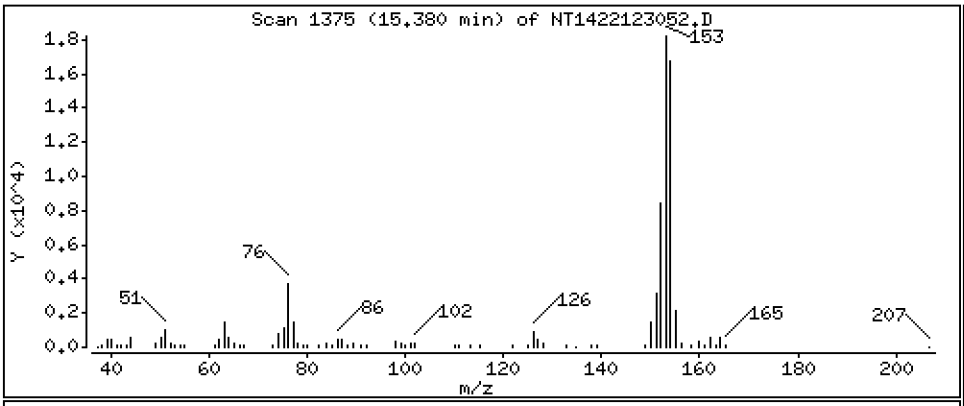
Operator: VTS

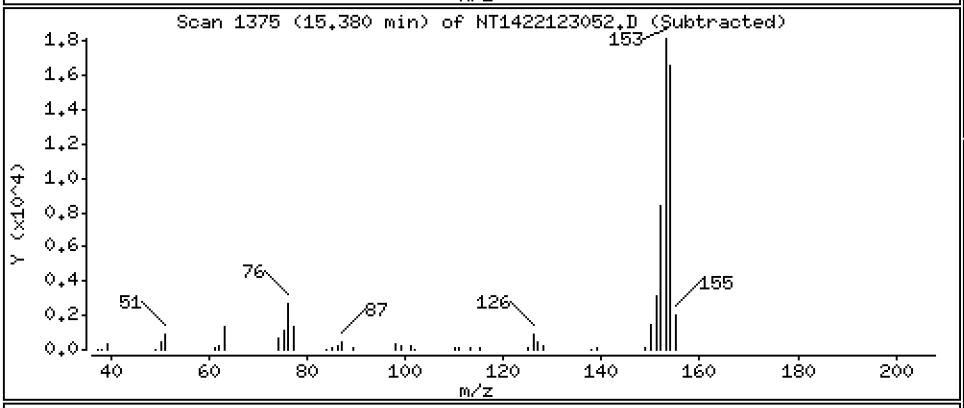
Column phase: ZB-5msi

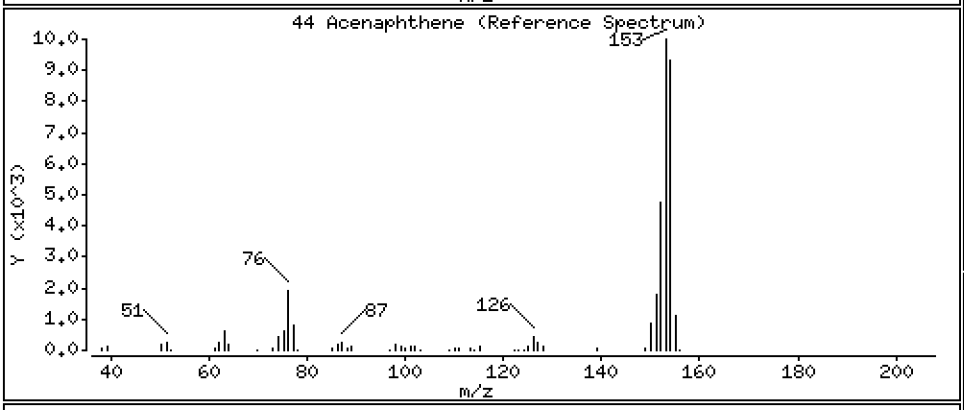
Column diameter: 0.25

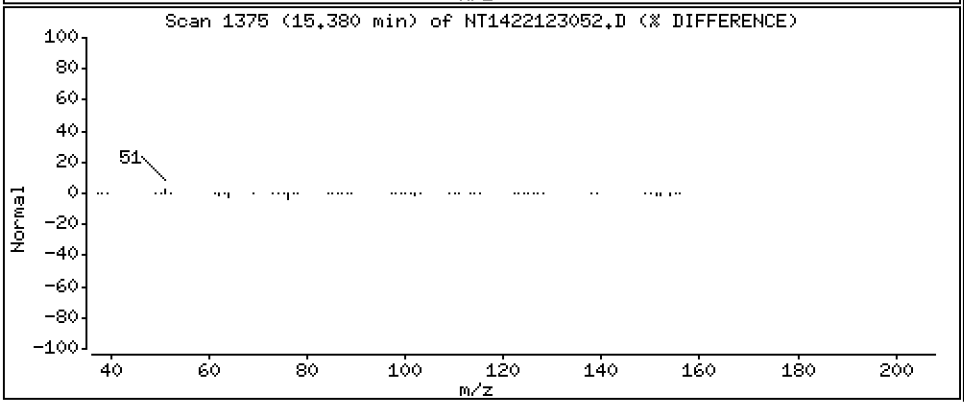
44 Acenaphthene

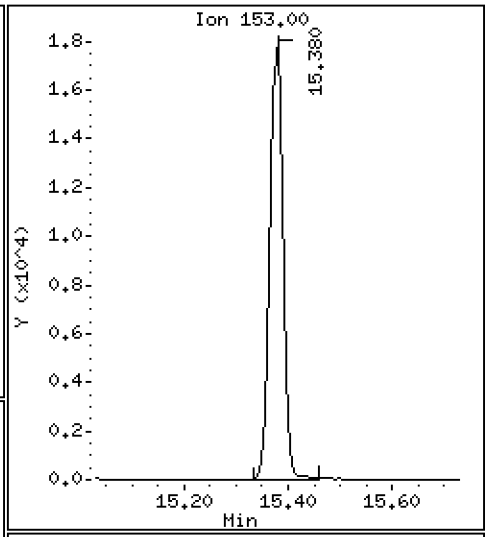
Concentration: 0.4966 ug/mL

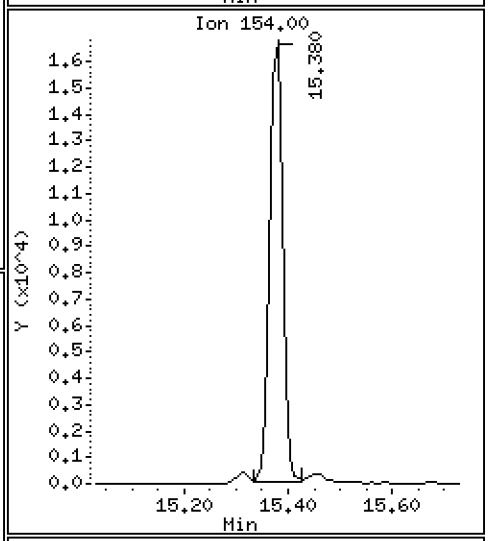


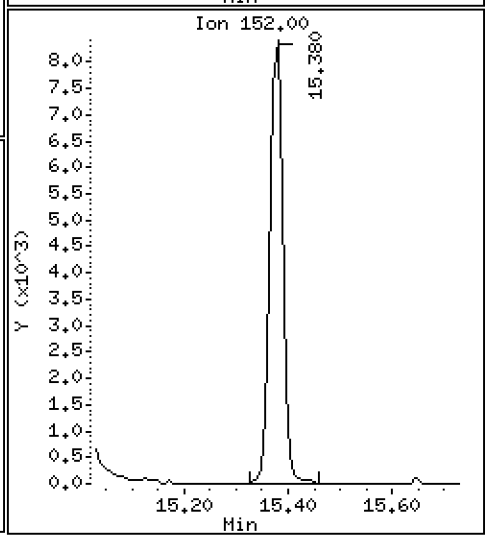












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

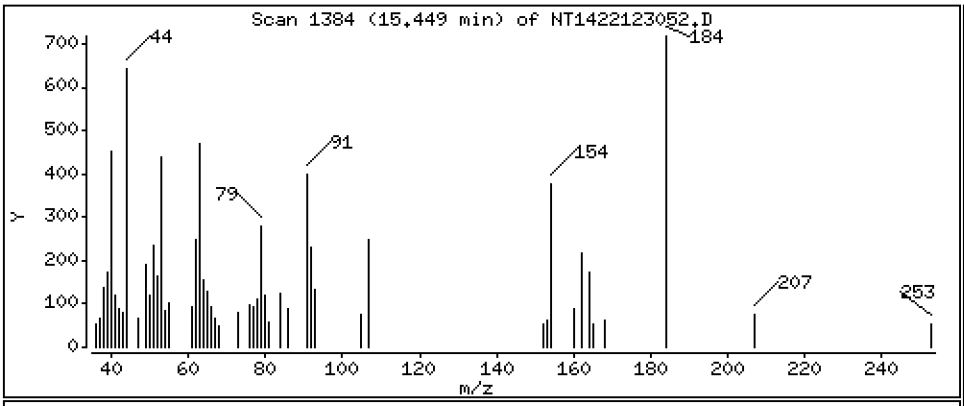
Operator: VTS

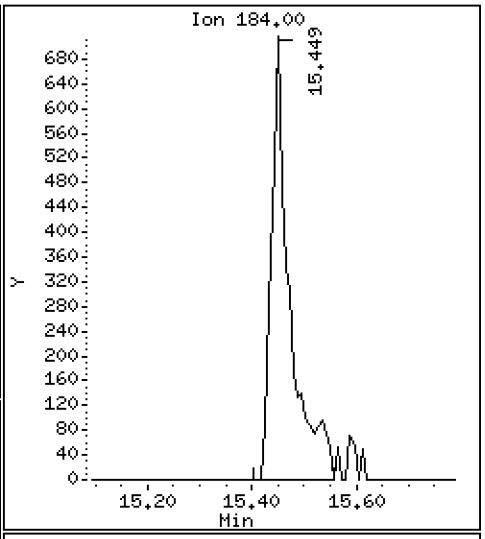
Column phase: ZB-5msi

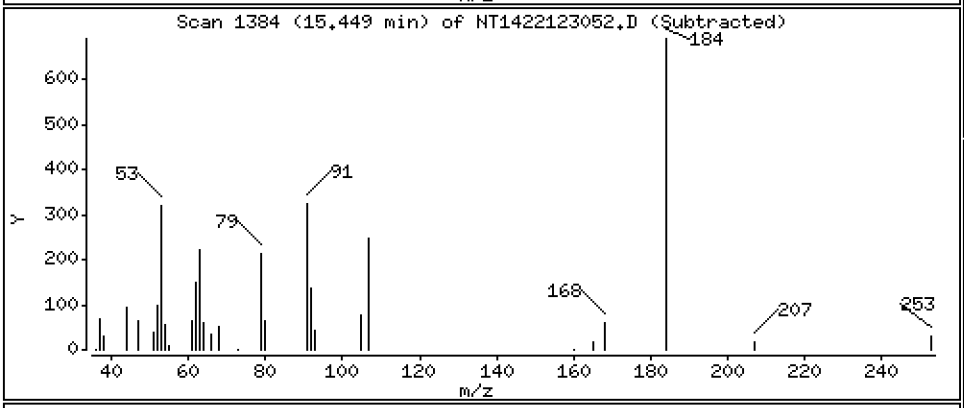
Column diameter: 0.25

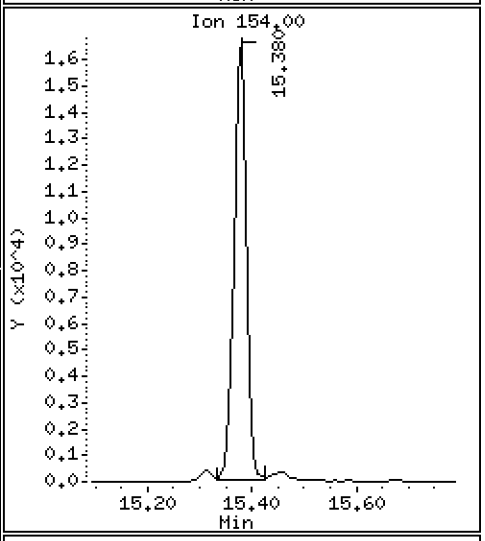
45 2,4-Dinitrophenol

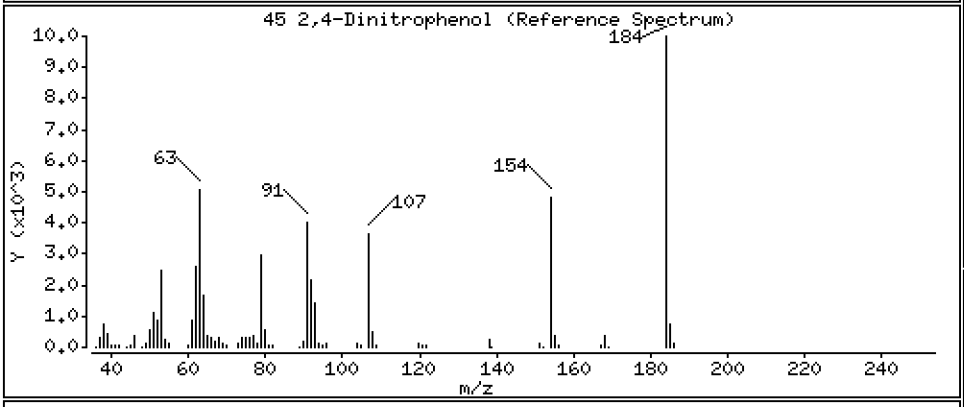
Concentration: 0.1450 ug/mL

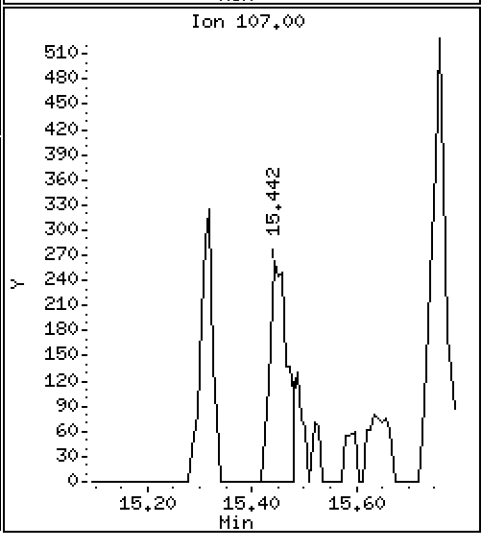


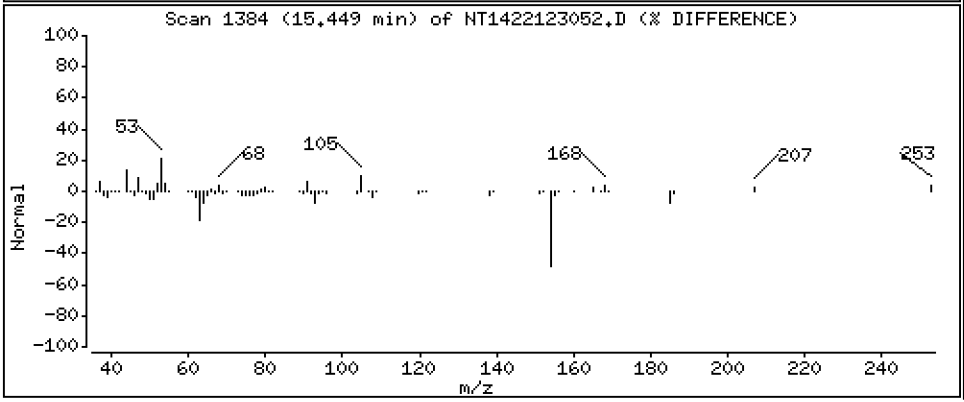












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

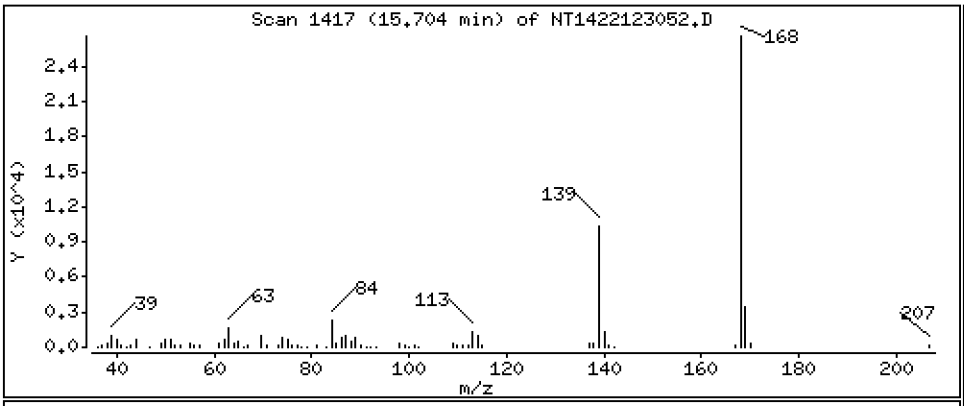
Operator: VTS

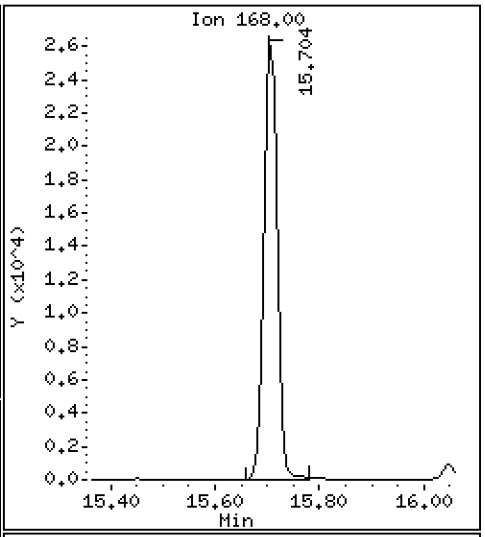
Column phase: ZB-5msi

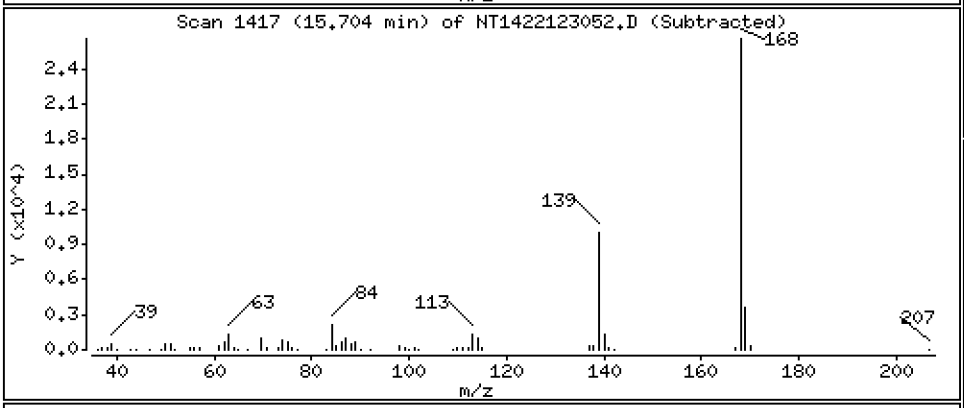
Column diameter: 0.25

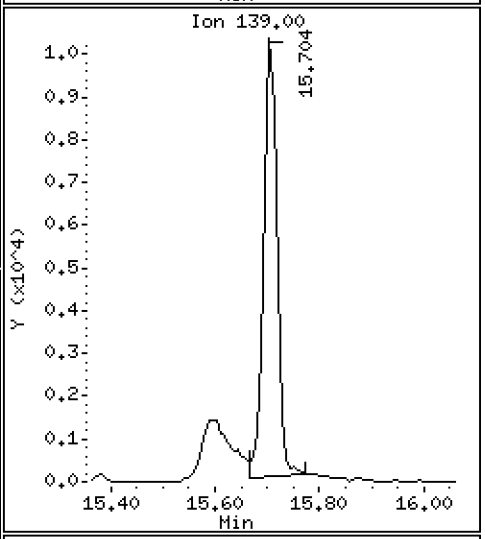
46 Dibenzofuran

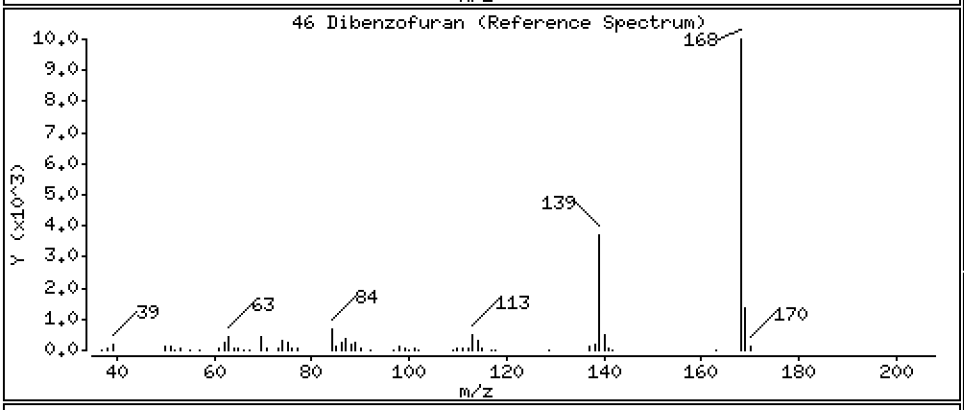
Concentration: 0.4927 ug/mL

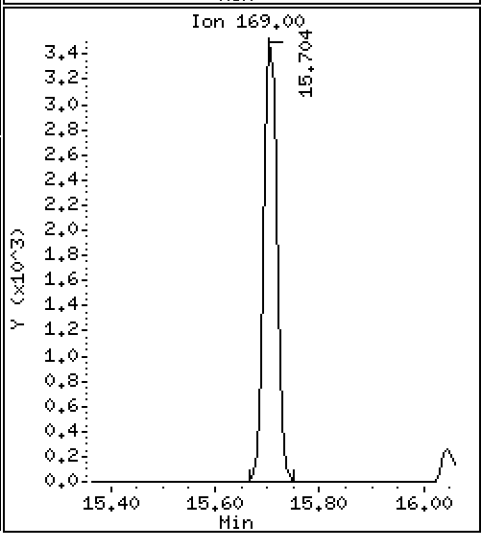


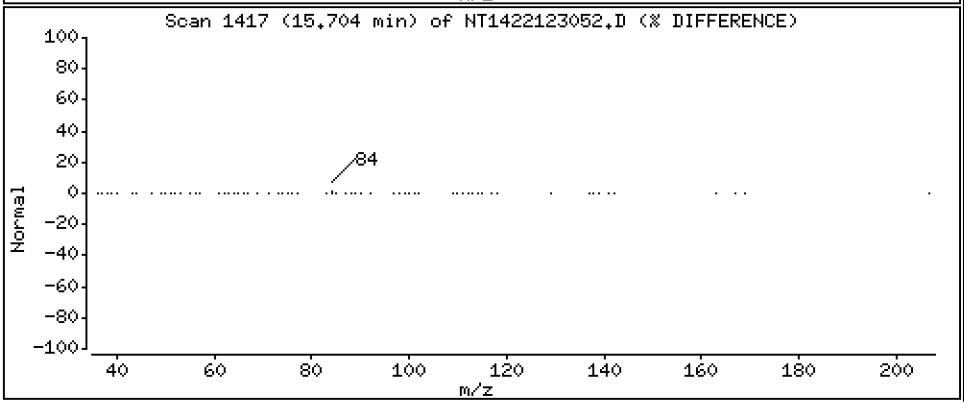












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

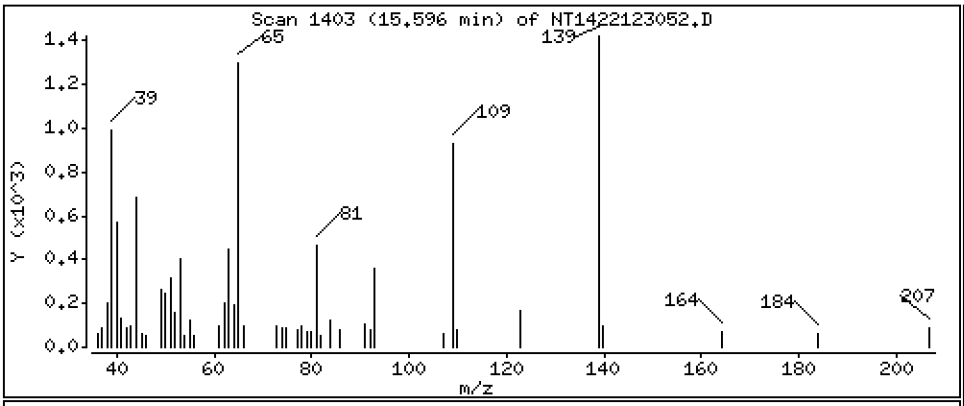
Operator: VTS

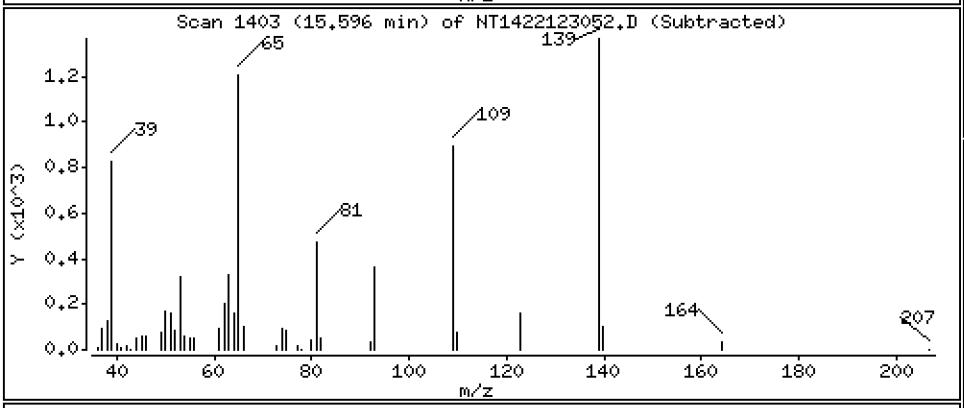
Column phase: ZB-5msi

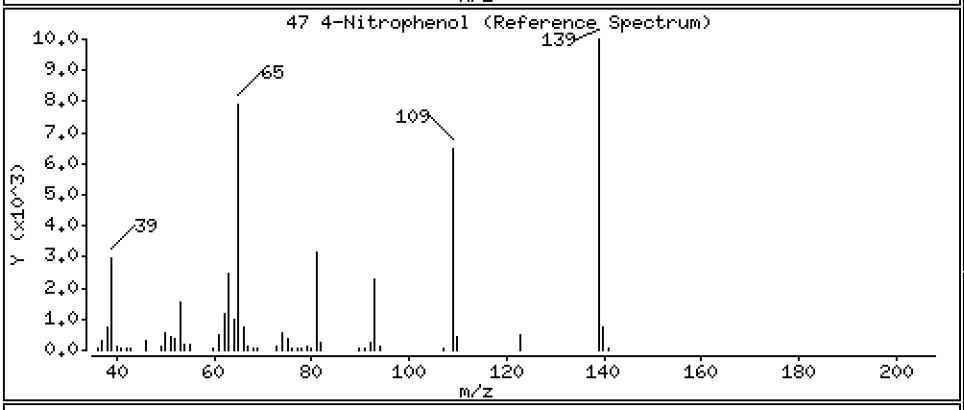
Column diameter: 0.25

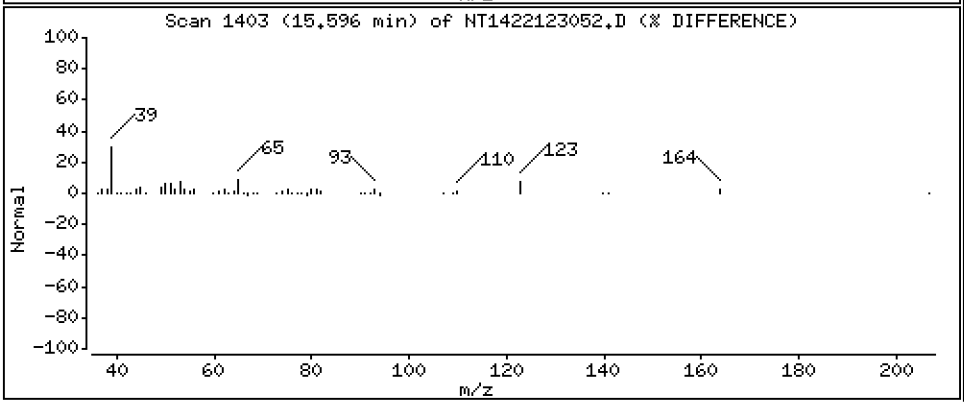
47 4-Nitrophenol

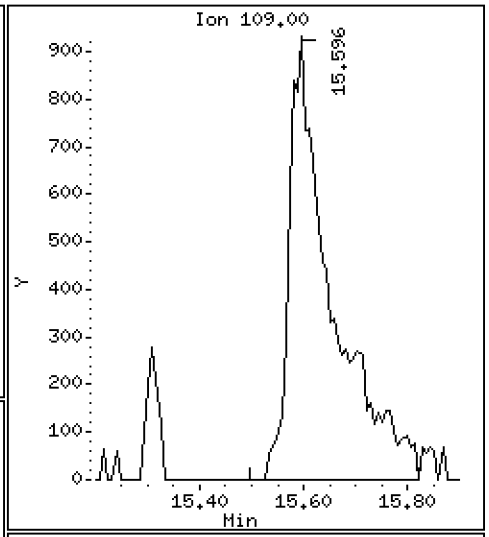
Concentration: 0.6475 ug/mL

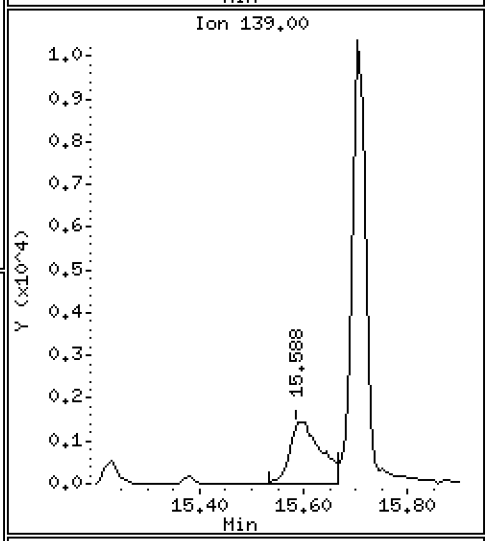


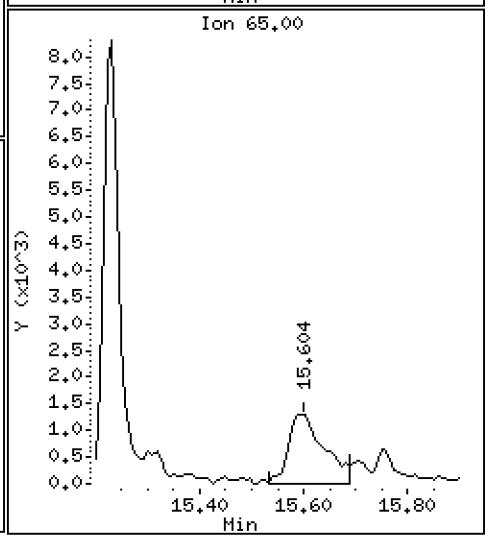












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

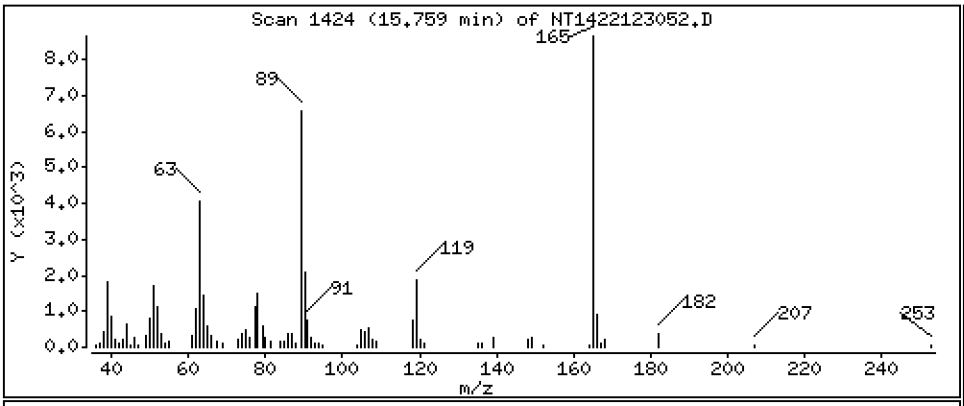
Operator: VTS

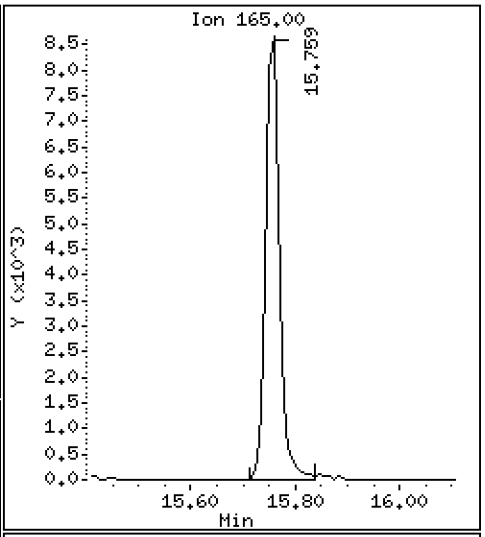
Column phase: ZB-5msi

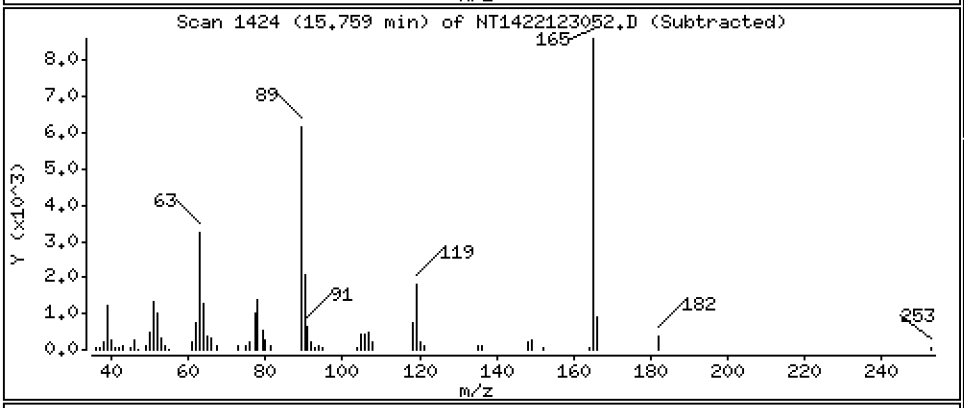
Column diameter: 0.25

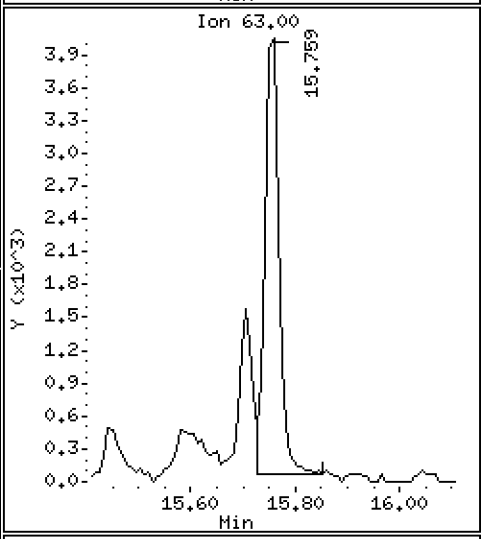
48 2,4-Dinitrotoluene

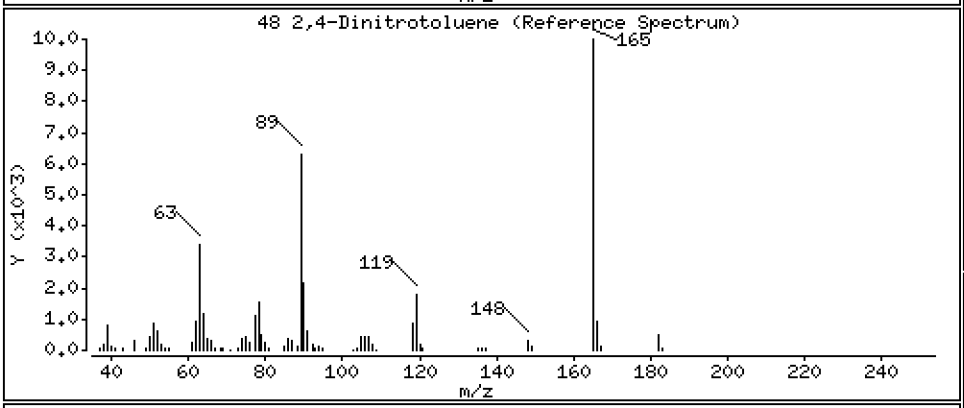
Concentration: 0.7788 ug/mL

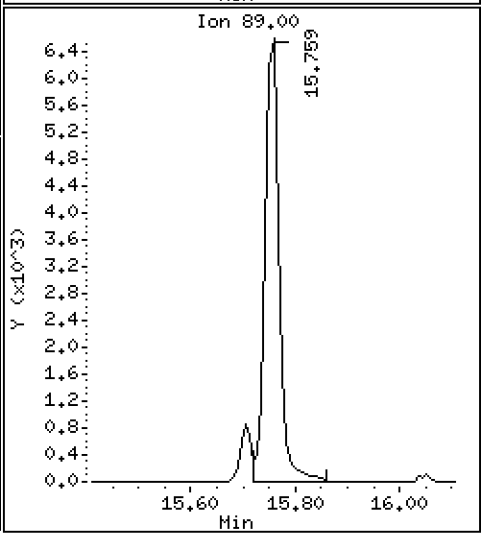


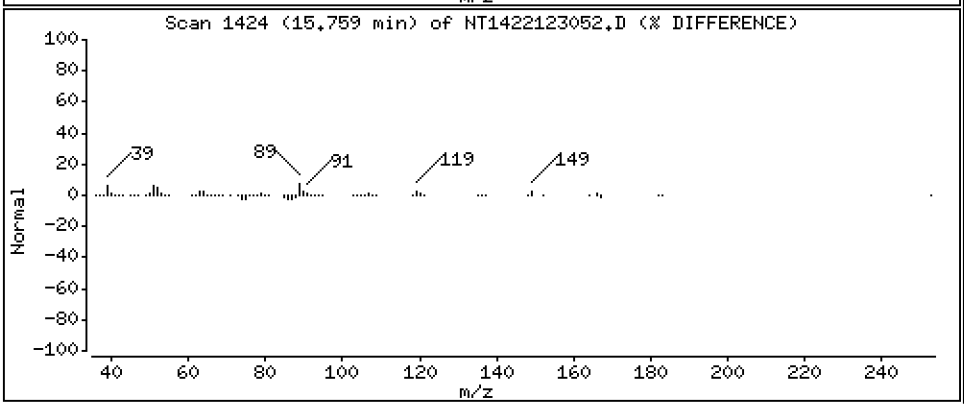












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

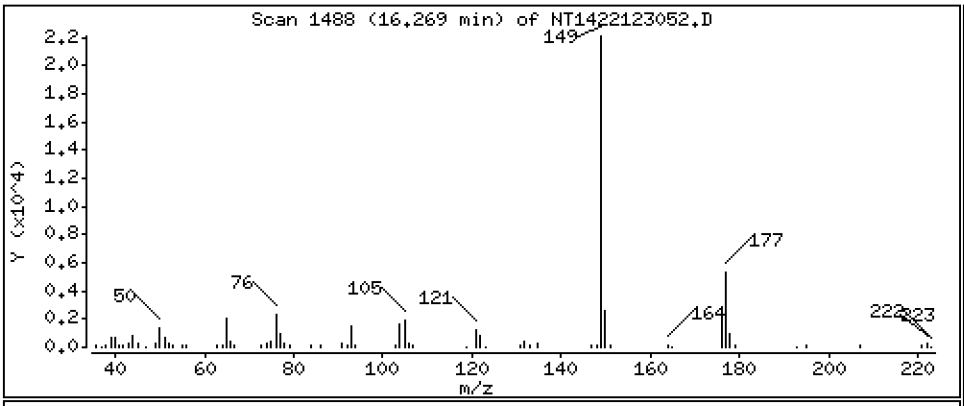
Operator: VTS

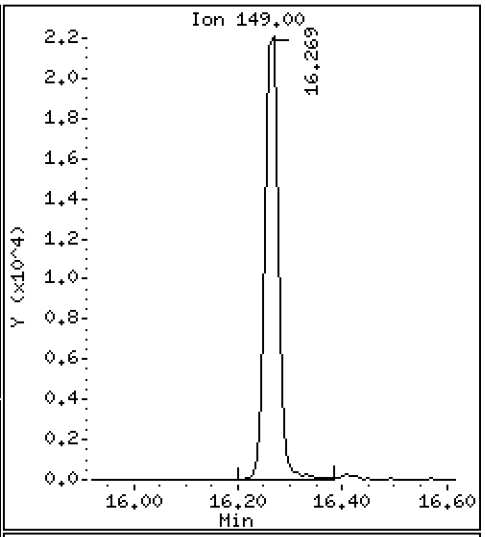
Column phase: ZB-5msi

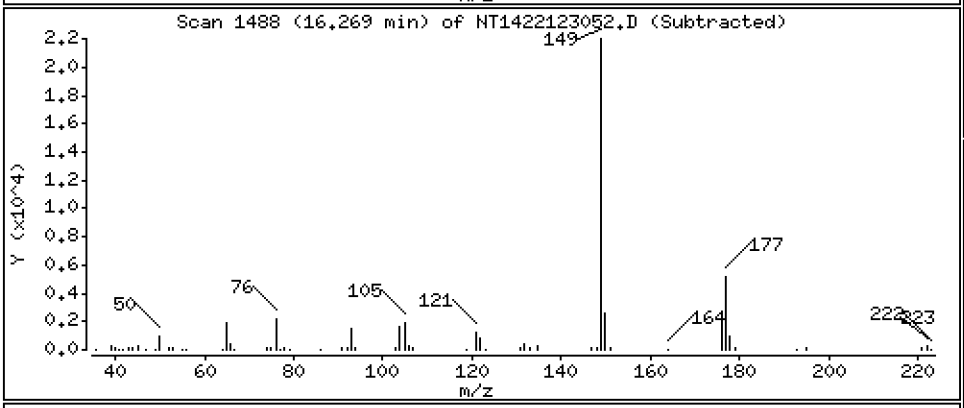
Column diameter: 0.25

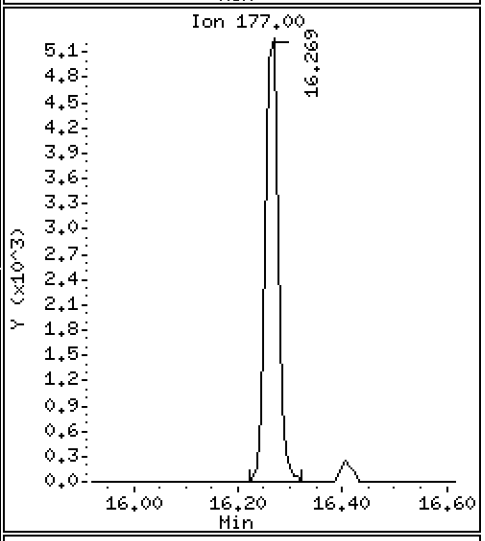
50 Diethylphthalate

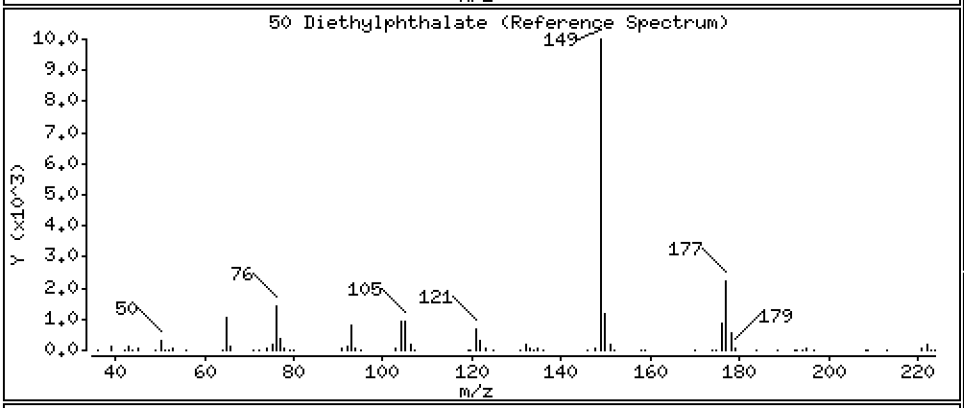
Concentration: 0.5374 ug/mL

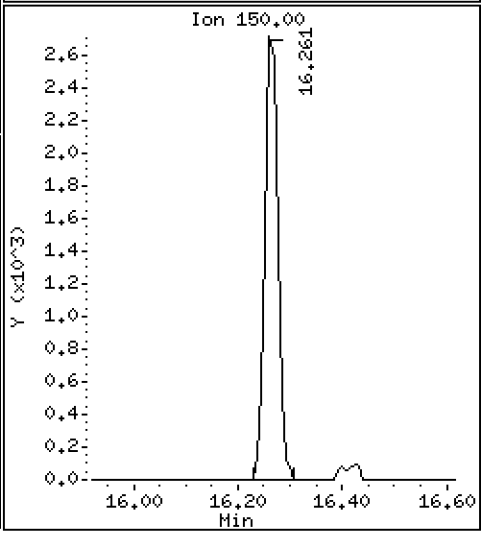


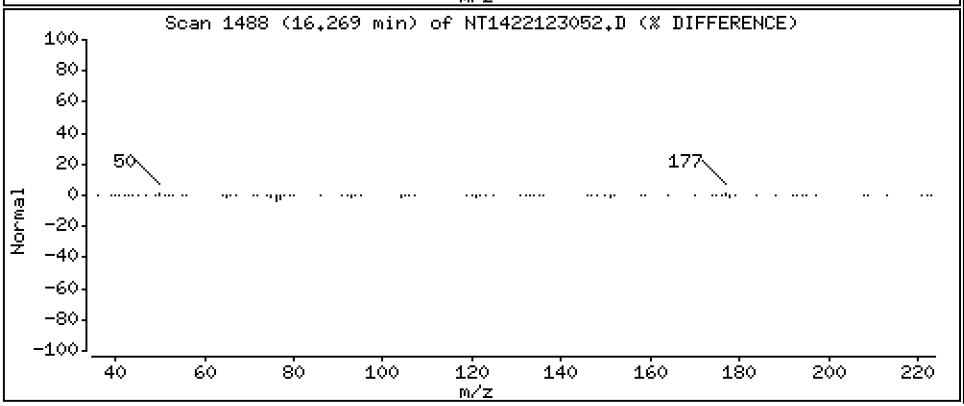












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

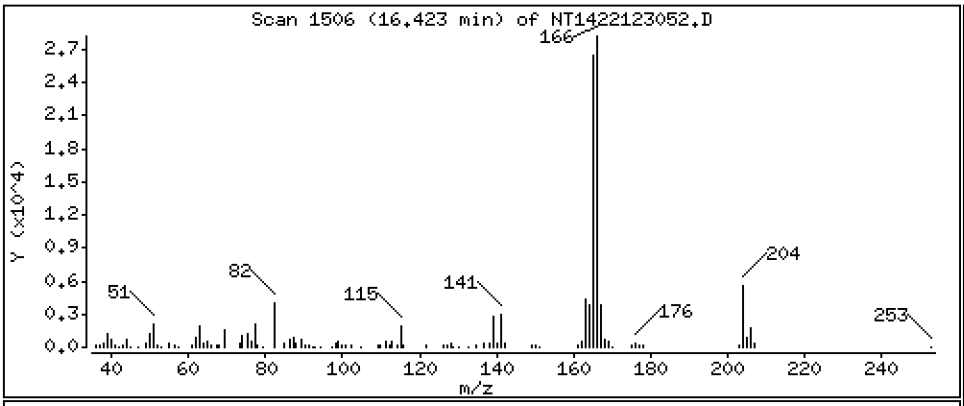
Operator: VTS

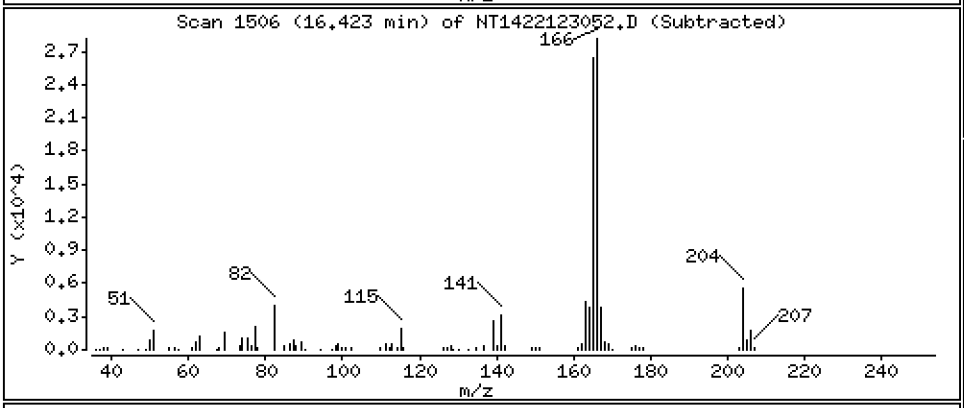
Column phase: ZB-5msi

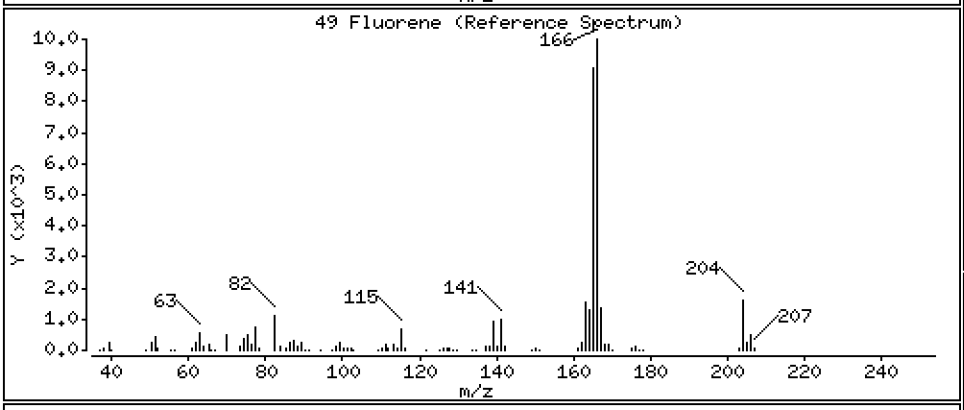
Column diameter: 0.25

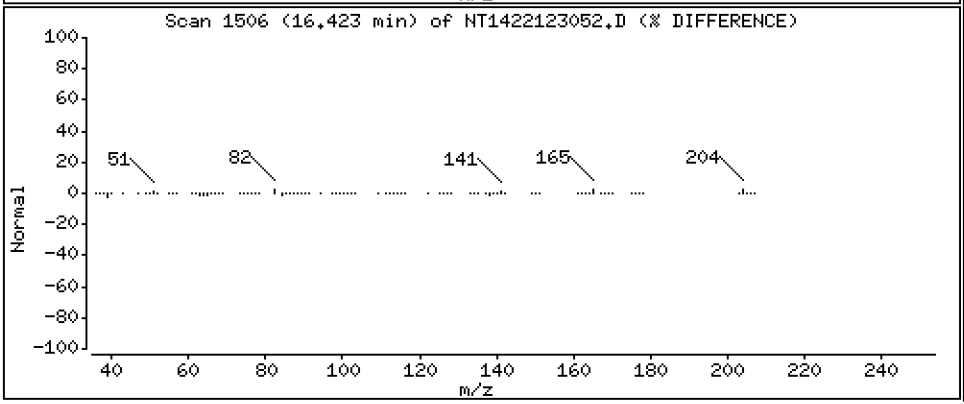
49 Fluorene

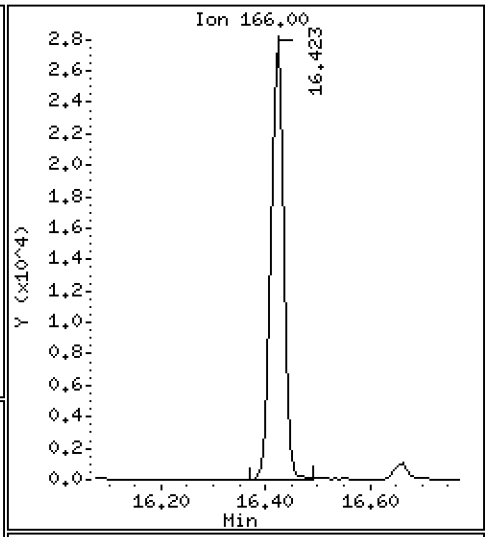
Concentration: 0.4836 ug/mL

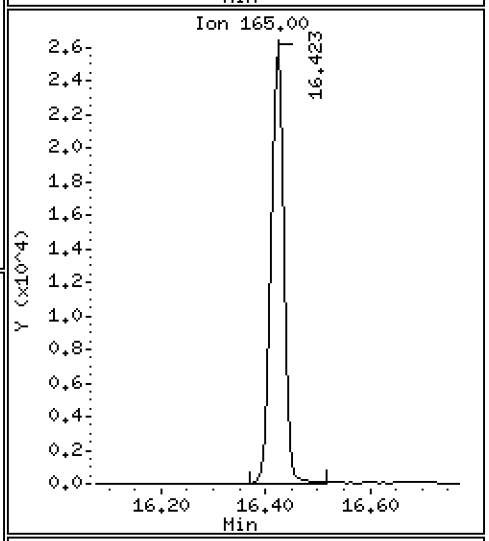


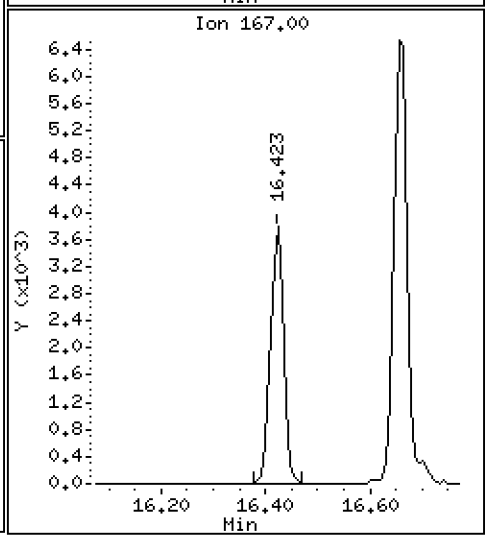












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

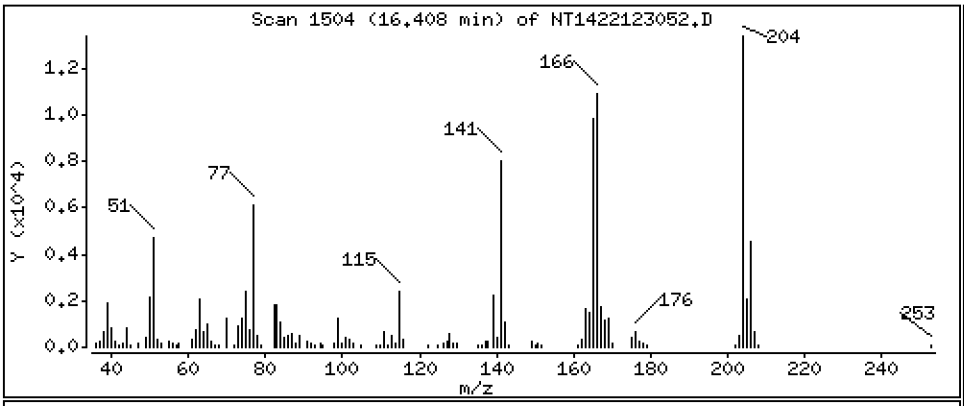
Operator: VTS

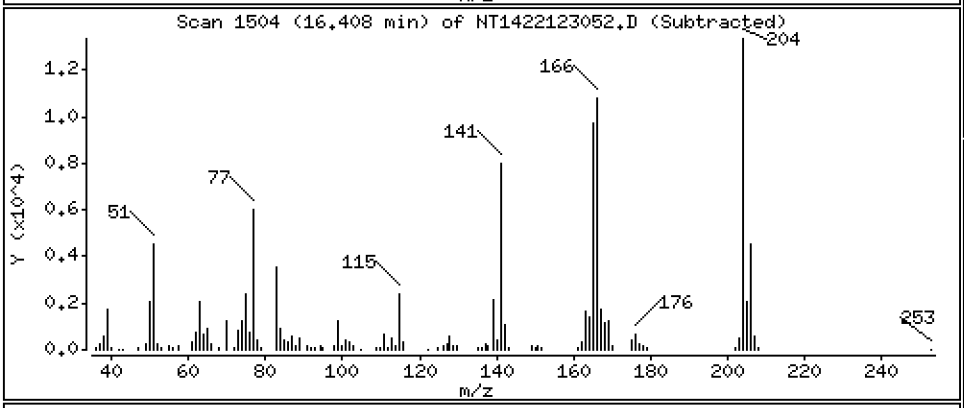
Column phase: ZB-5msi

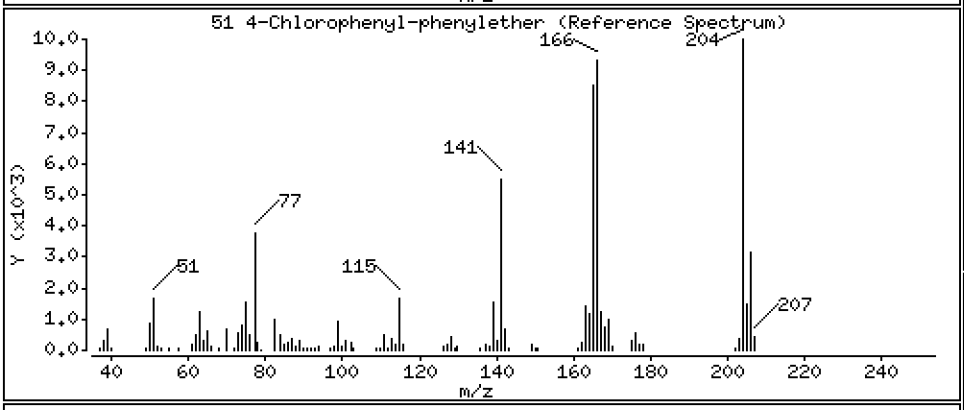
Column diameter: 0.25

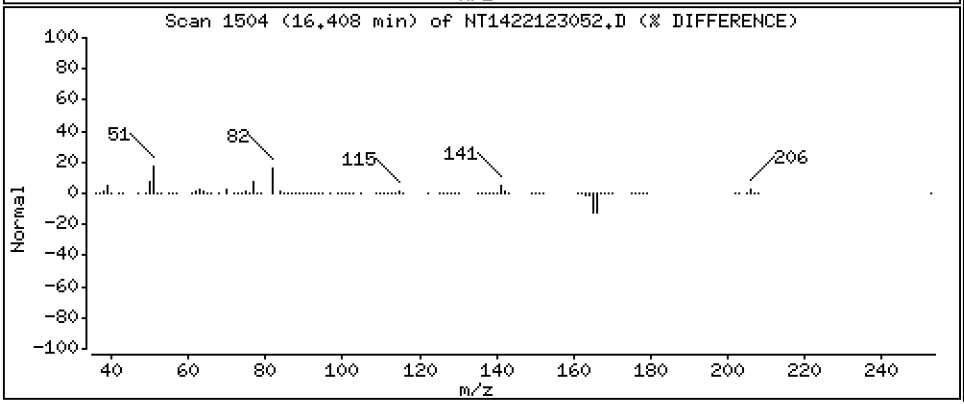
51 4-Chlorophenyl-phenylether

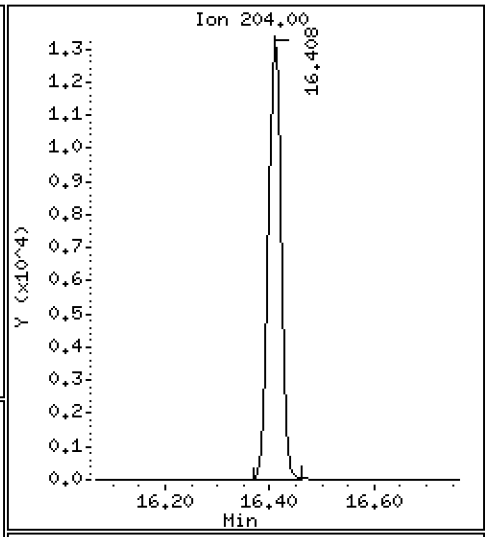
Concentration: 0.4585 ug/mL

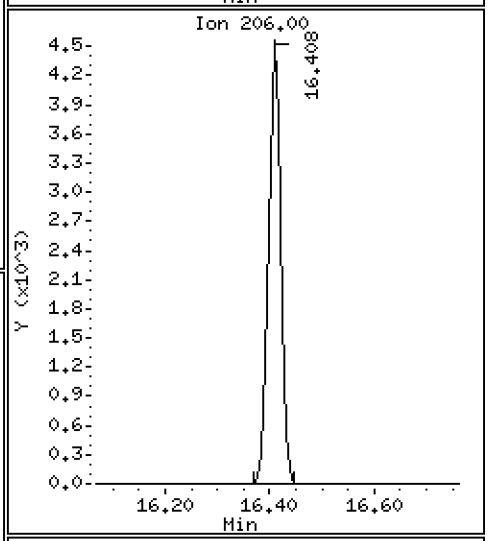


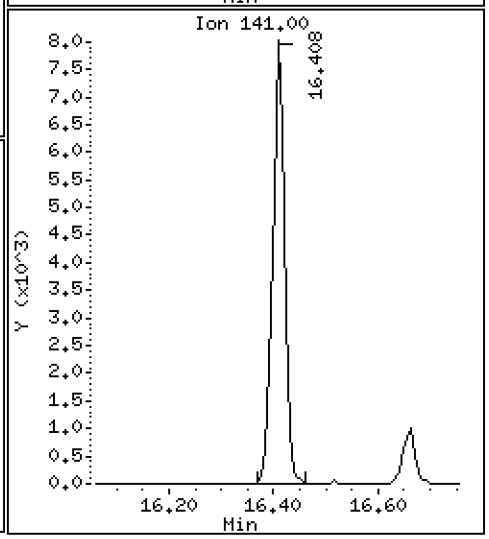












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

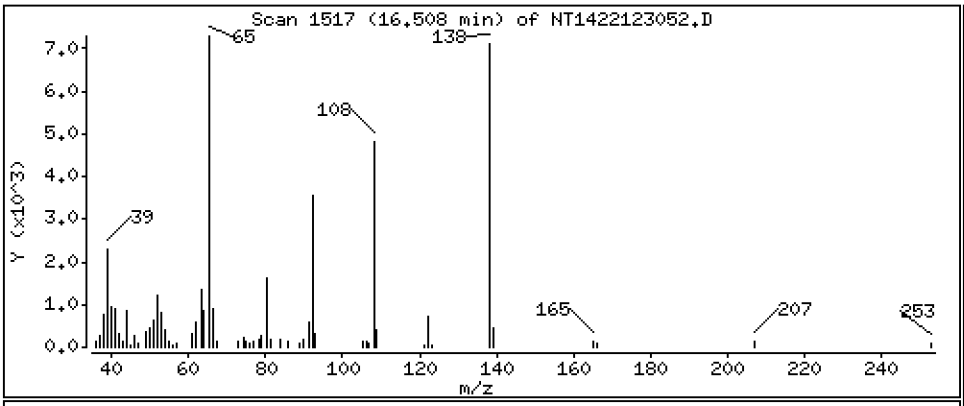
Operator: VTS

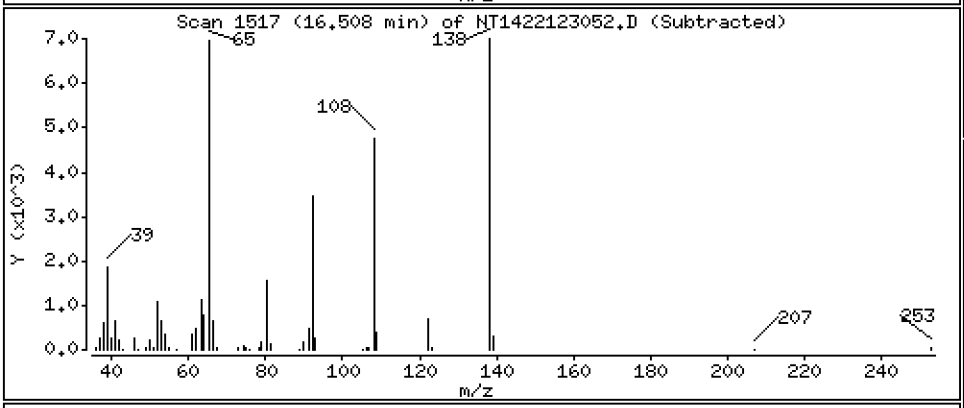
Column phase: ZB-5msi

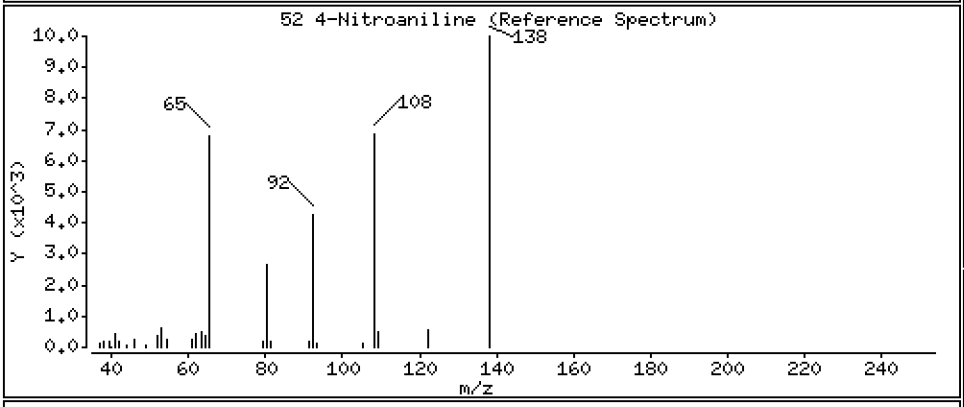
Column diameter: 0.25

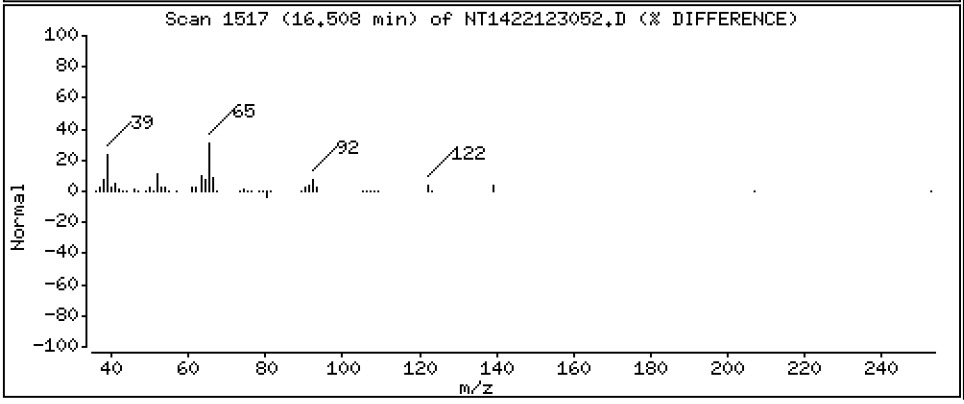
52 4-Nitroaniline

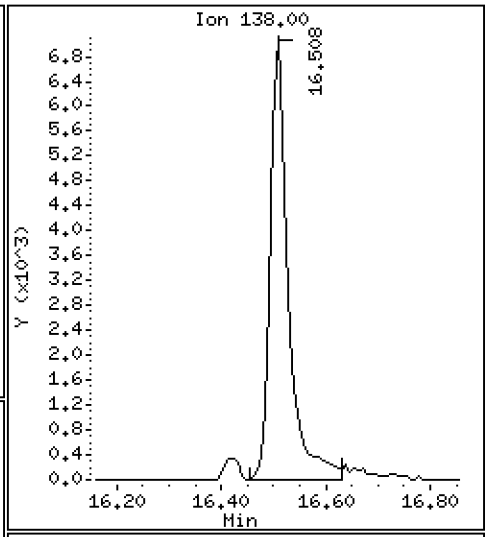
Concentration: 0.7926 ug/mL

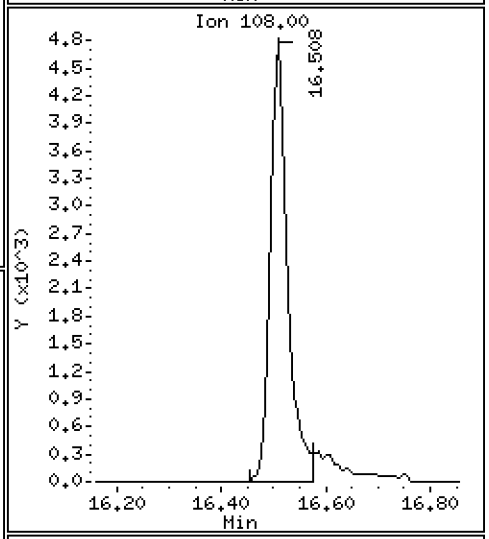


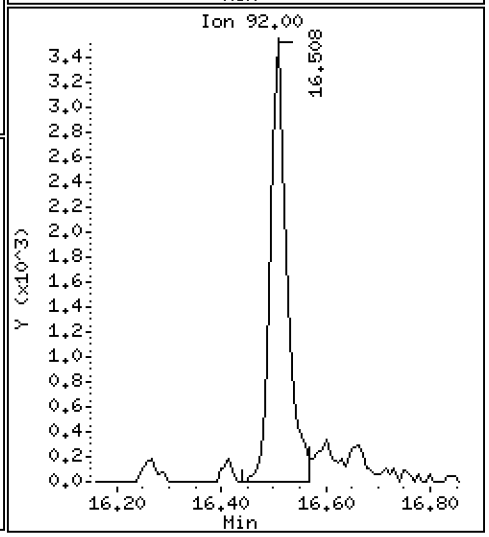












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

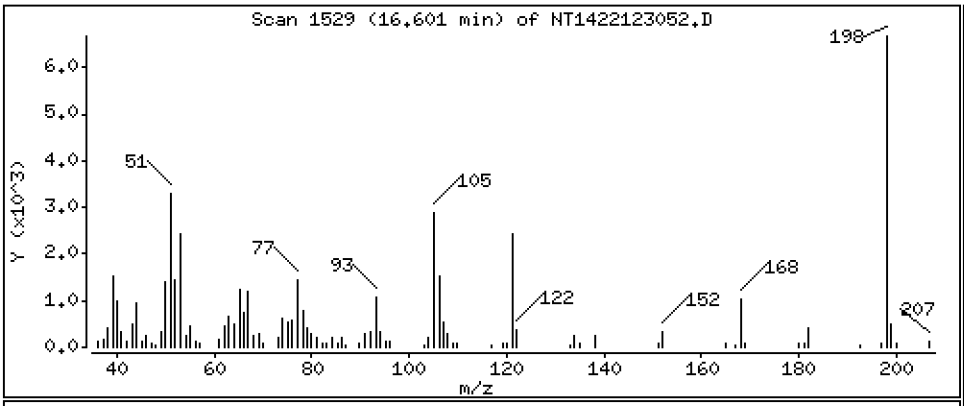
Operator: VTS

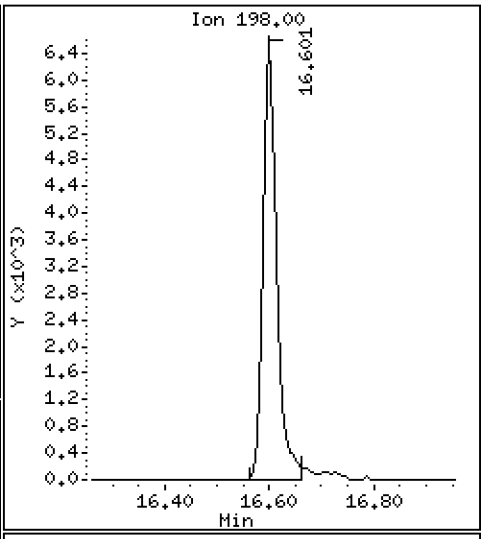
Column phase: ZB-5msi

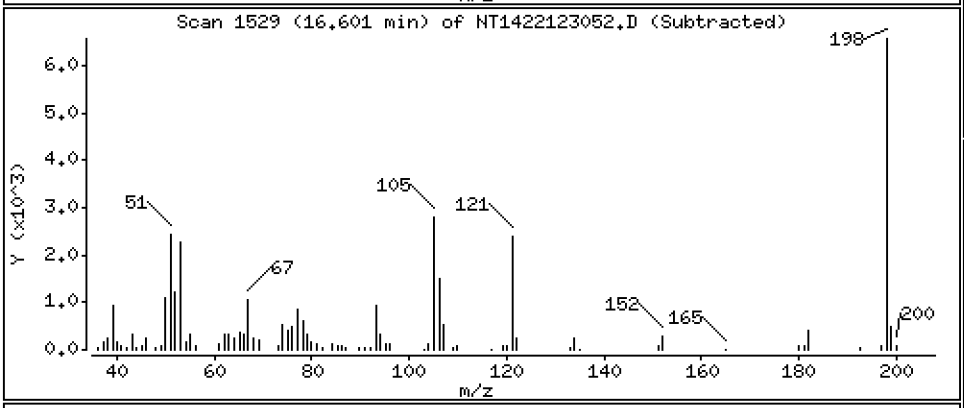
Column diameter: 0.25

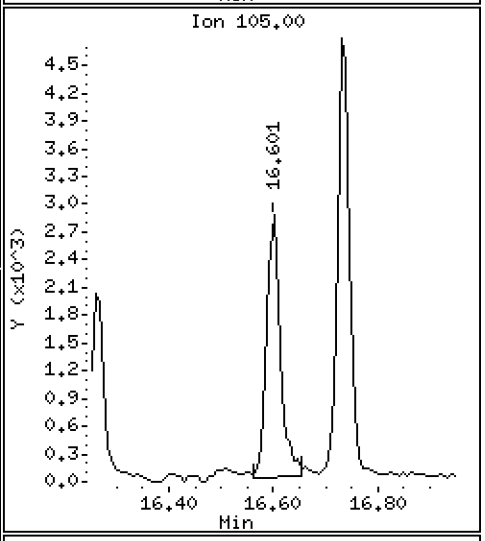
53 4,6-Dinitro-2-methylphenol

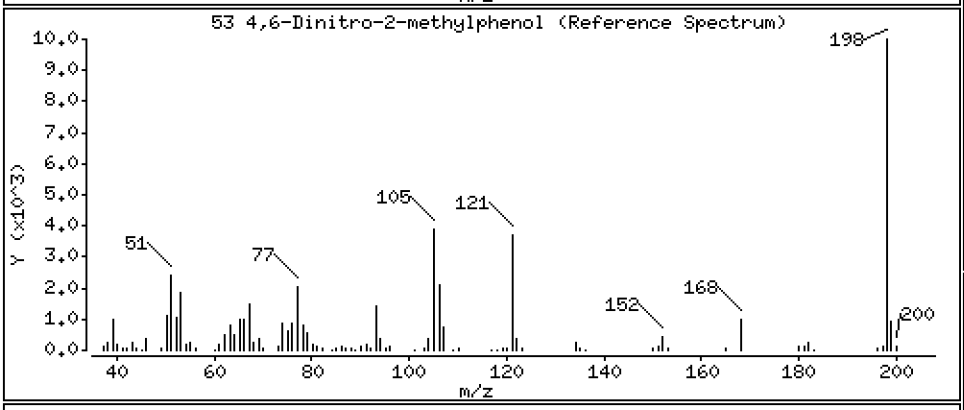
Concentration: 0.7566 ug/mL

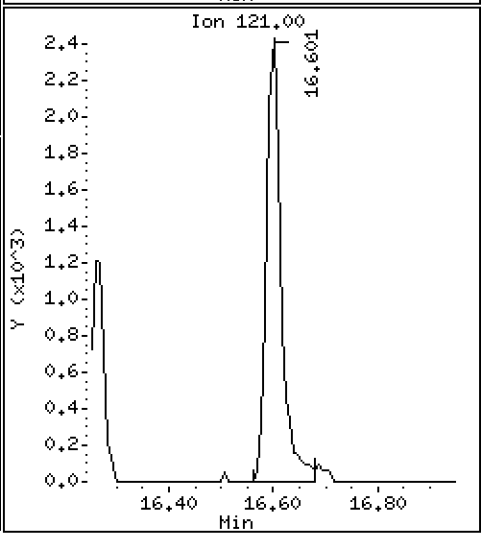


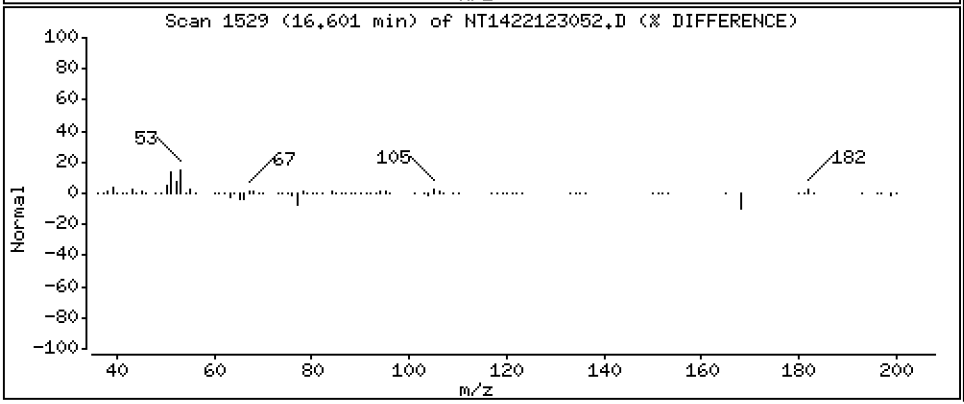












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

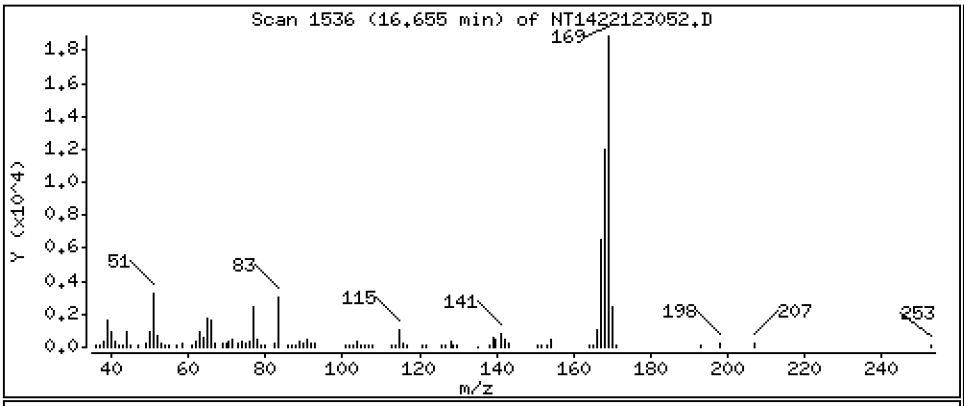
Operator: VTS

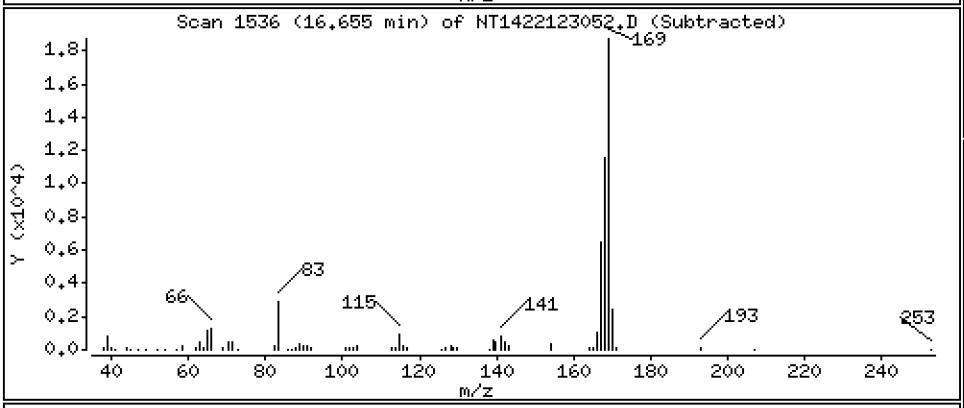
Column phase: ZB-5msi

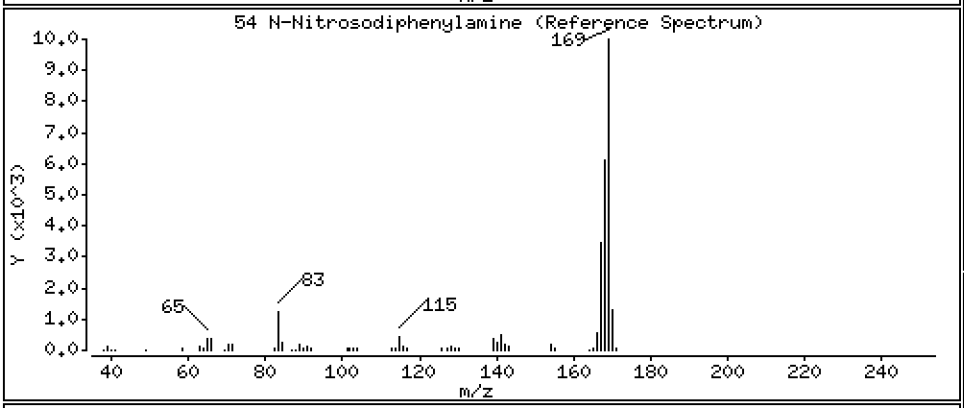
Column diameter: 0.25

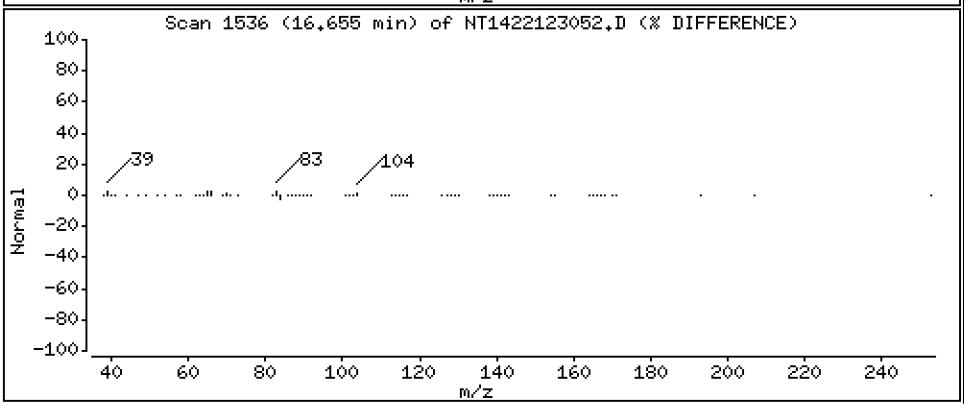
54 N-Nitrosodiphenylamine

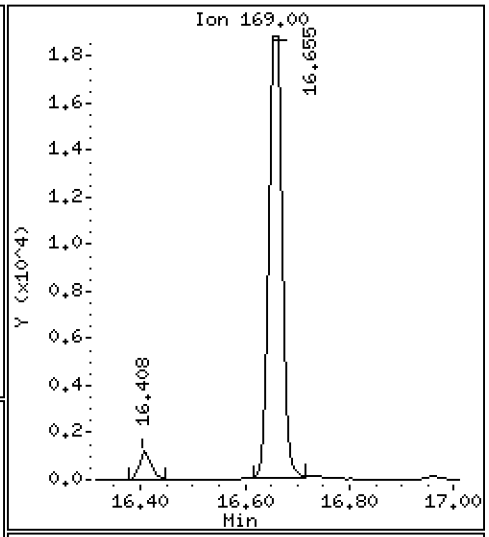
Concentration: 0.5113 ug/mL

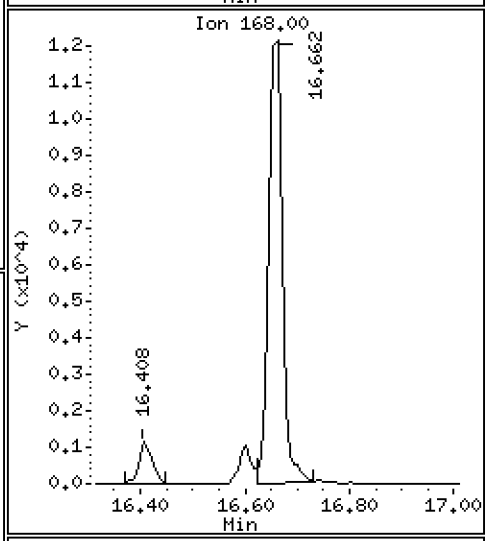


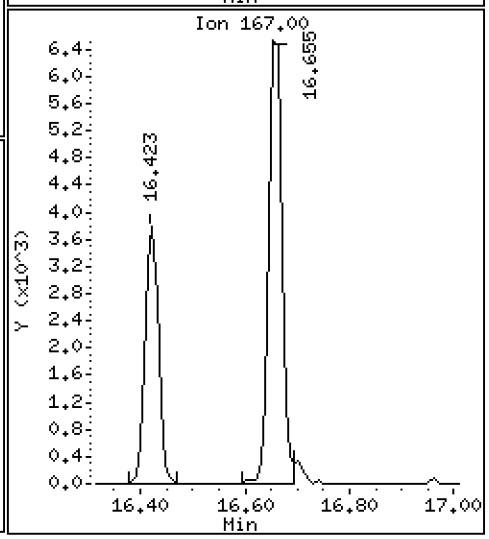












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

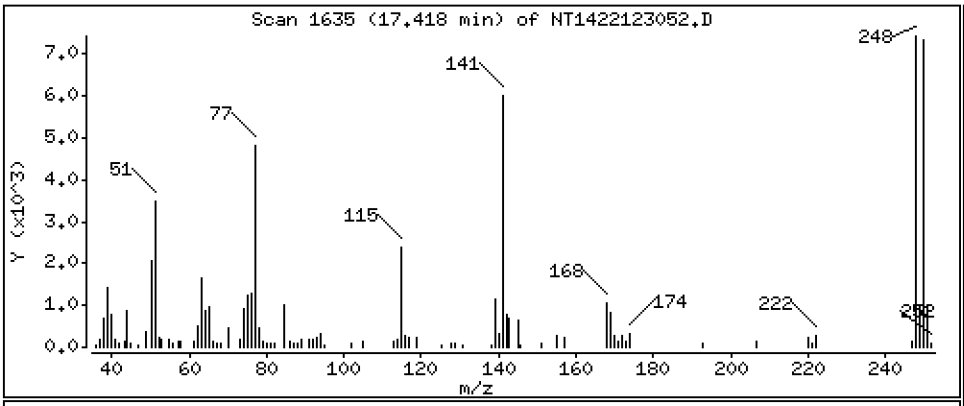
Operator: VTS

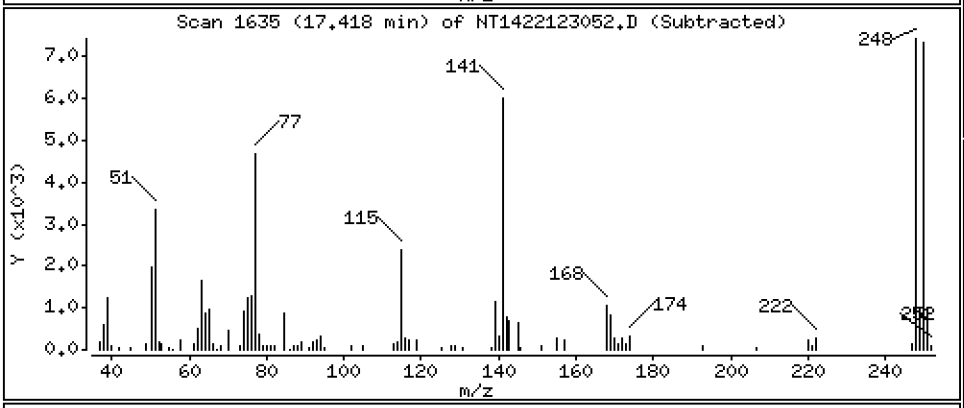
Column phase: ZB-5msi

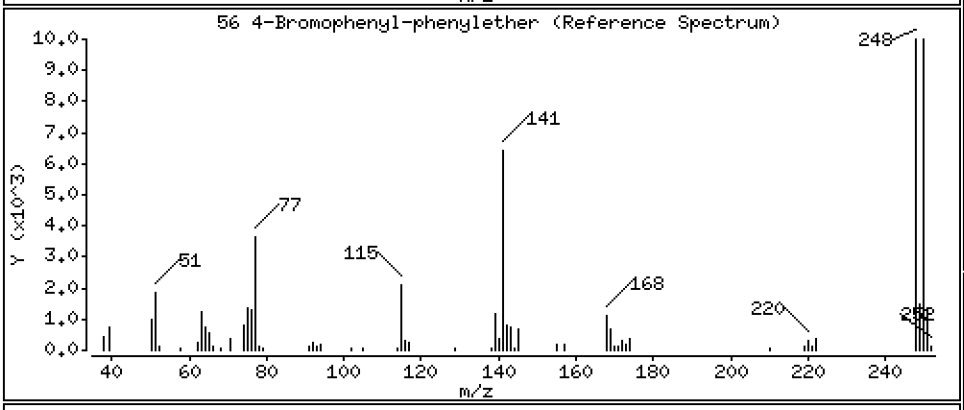
Column diameter: 0.25

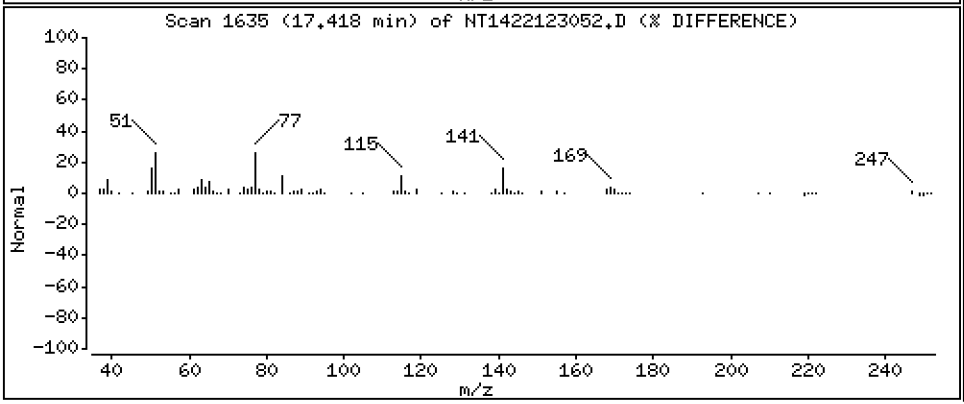
56 4-Bromophenyl-phenylether

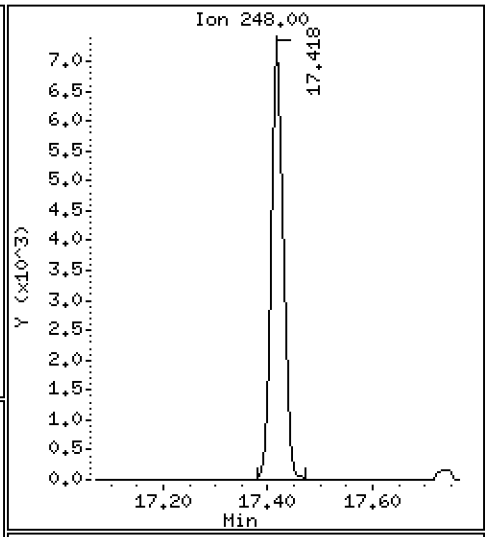
Concentration: 0.4903 ug/mL

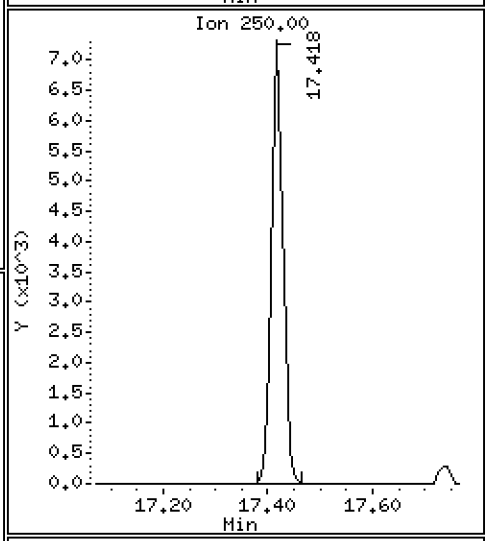


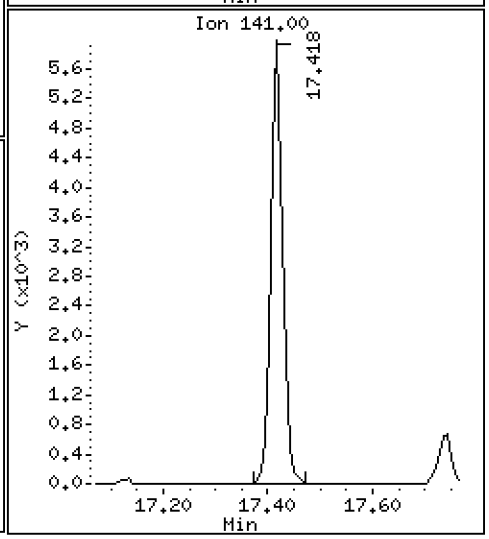












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

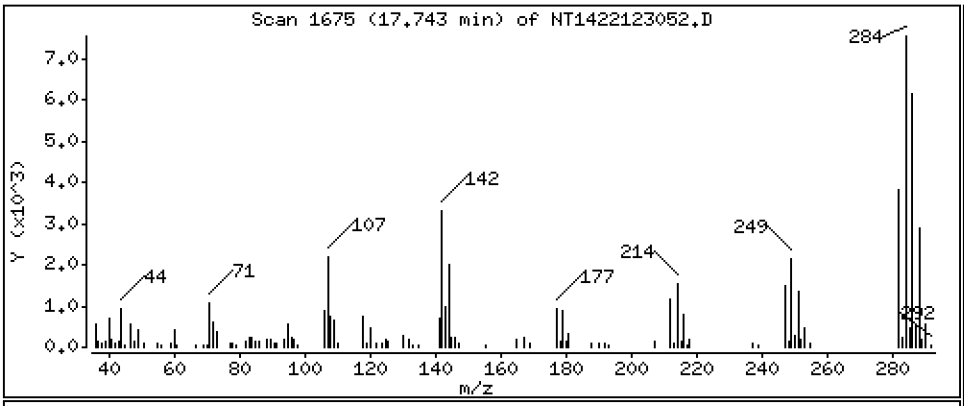
Operator: VTS

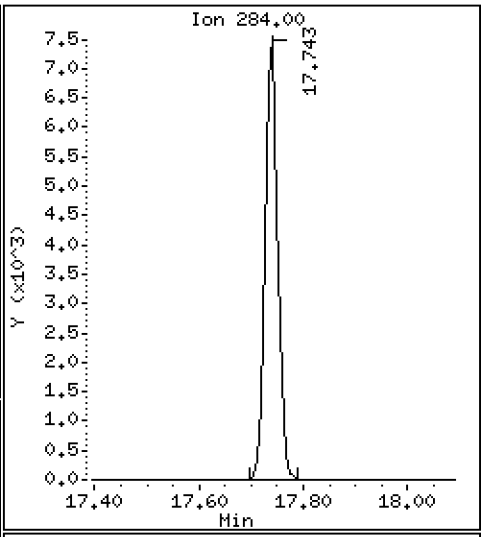
Column phase: ZB-5msi

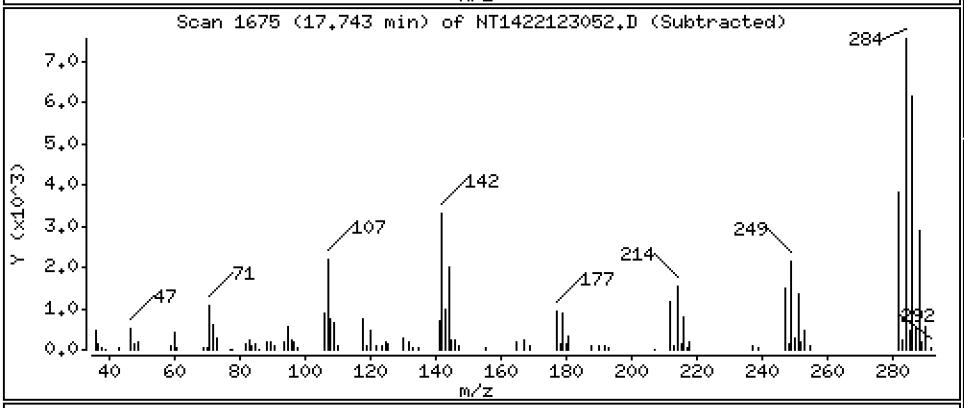
Column diameter: 0.25

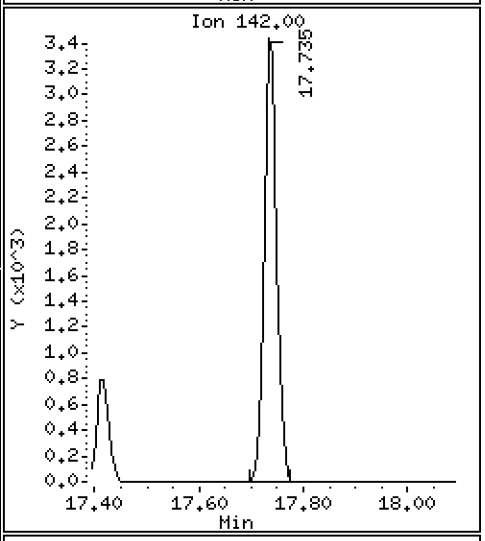
57 Hexachlorobenzene

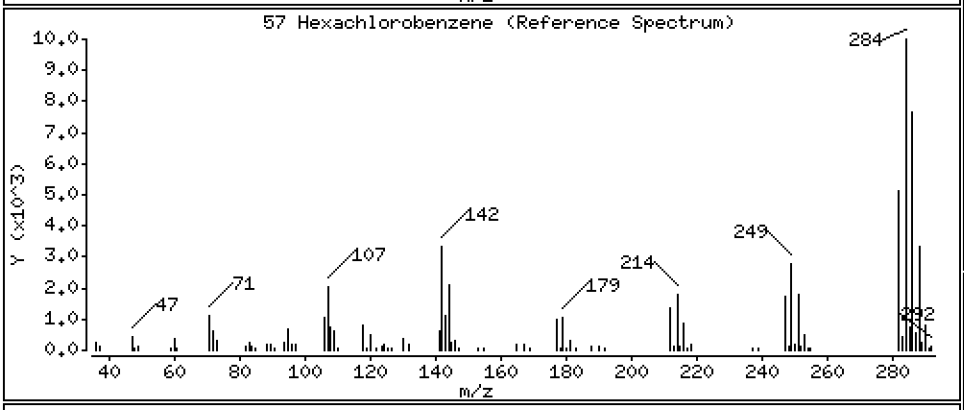
Concentration: 0.4900 ug/mL

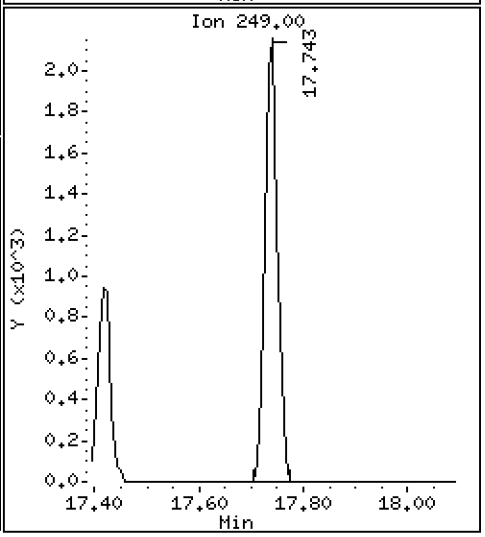


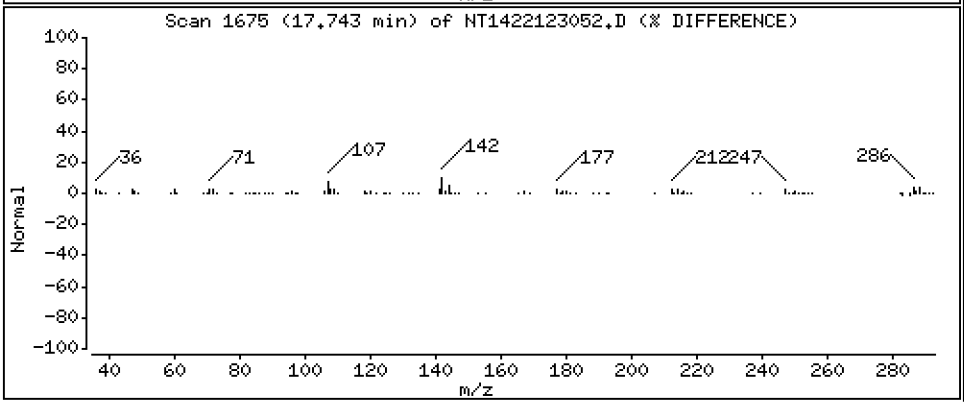












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

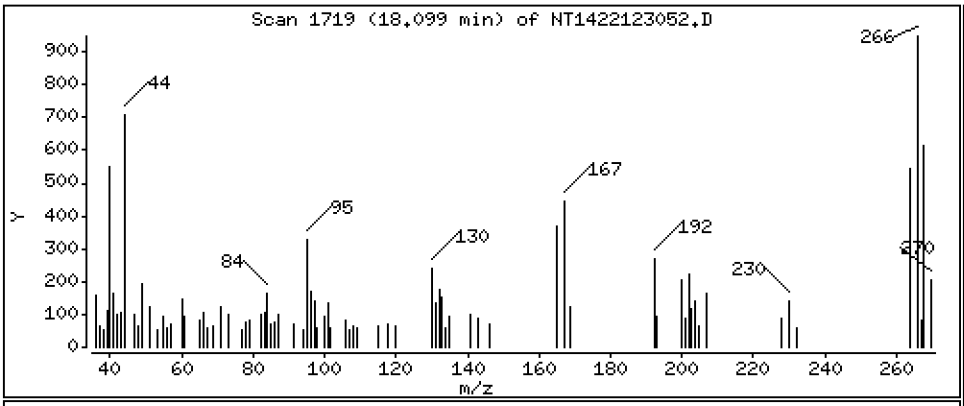
Operator: VTS

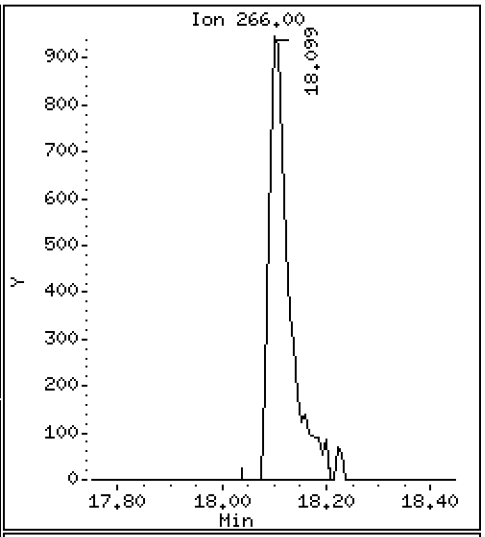
Column phase: ZB-5msi

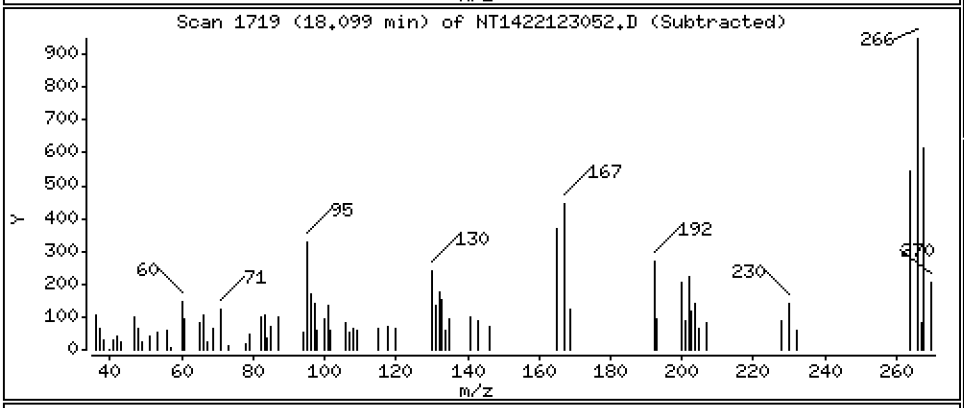
Column diameter: 0.25

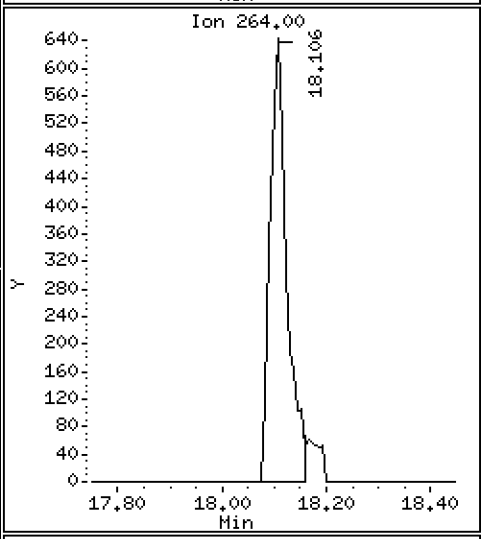
58 Pentachlorophenol

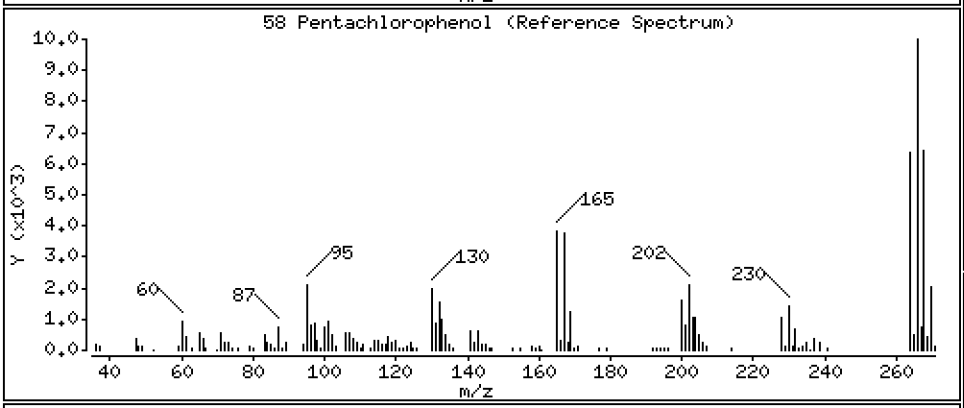
Concentration: 0.2250 ug/mL

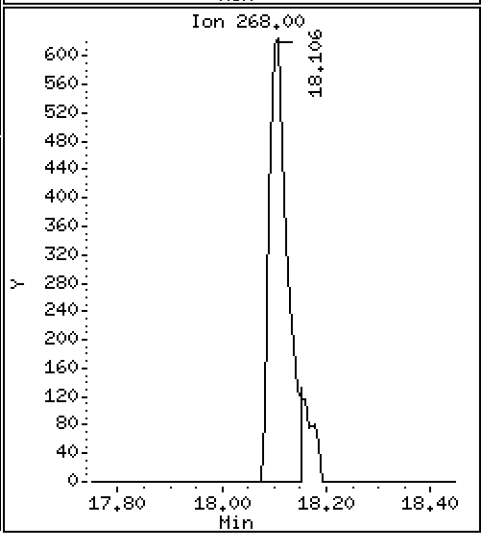


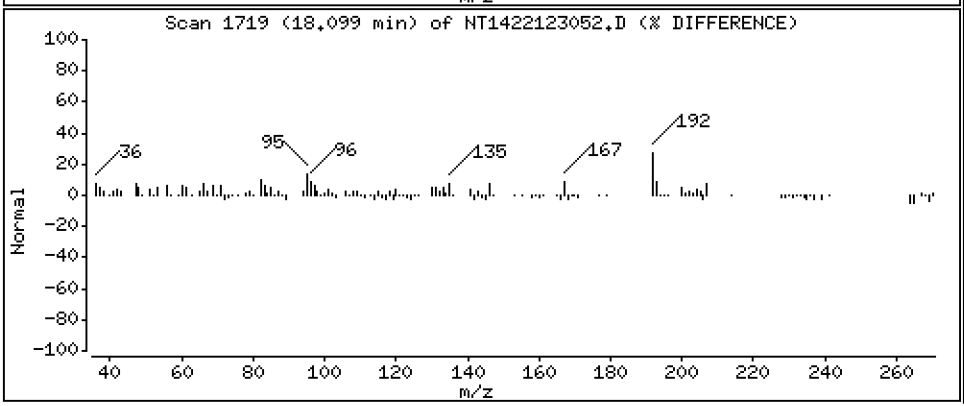












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

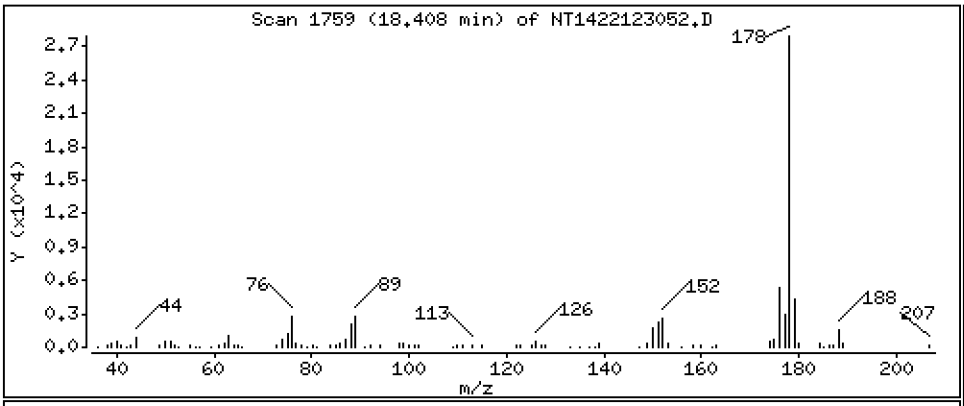
Operator: VTS

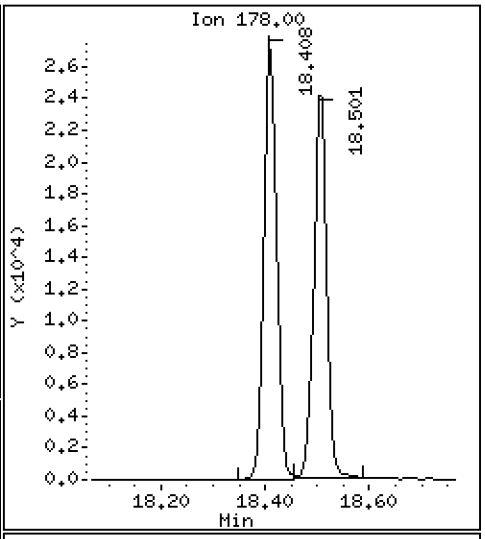
Column phase: ZB-5msi

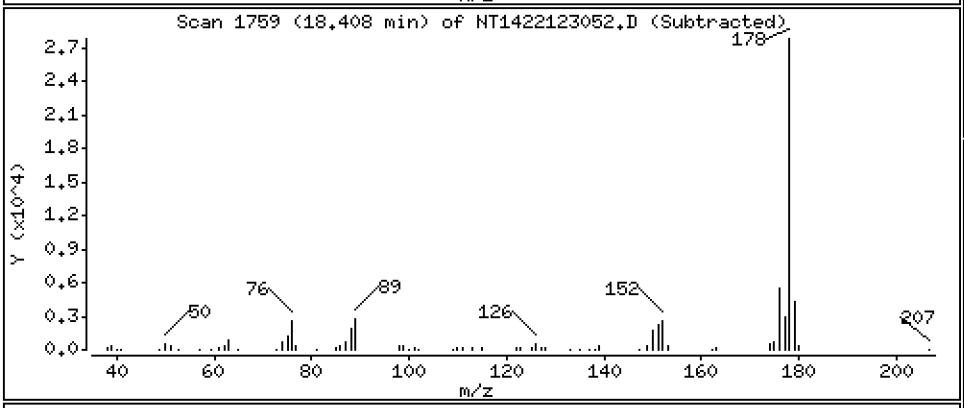
Column diameter: 0.25

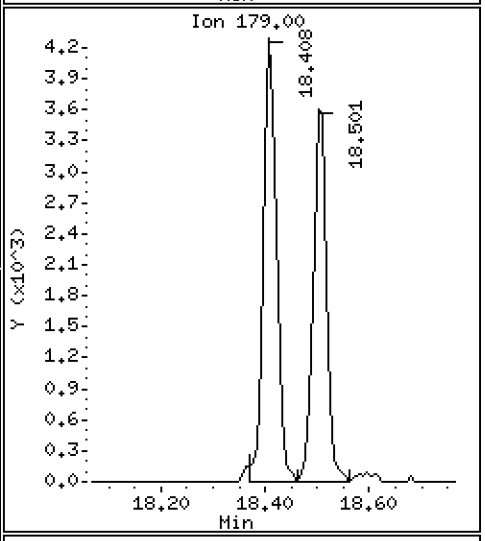
60 Phenanthrene

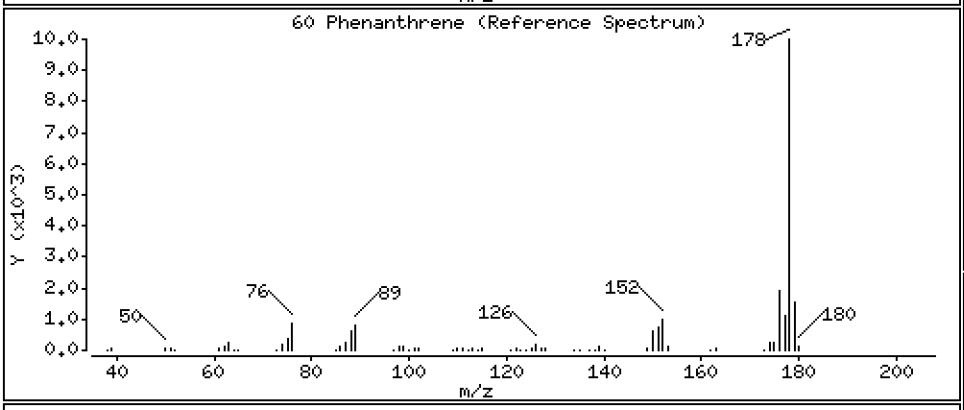
Concentration: 0.4886 ug/mL

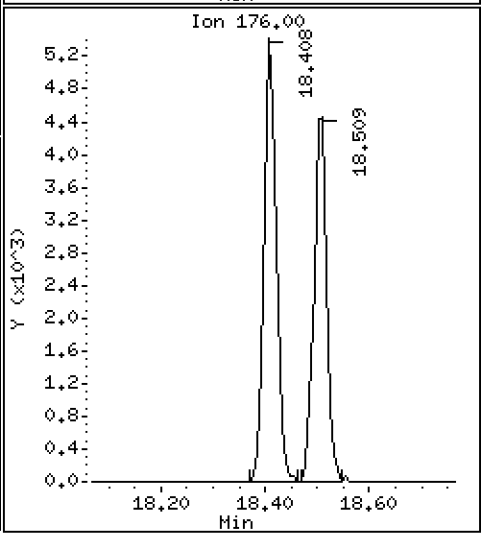


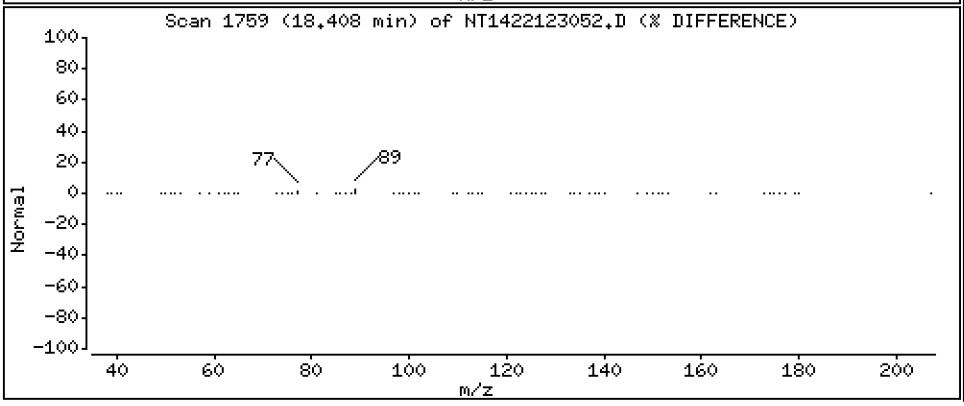












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

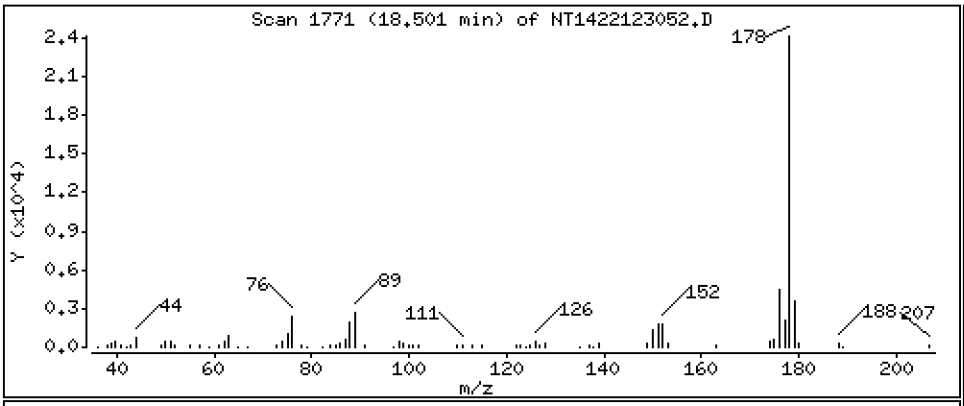
Operator: VTS

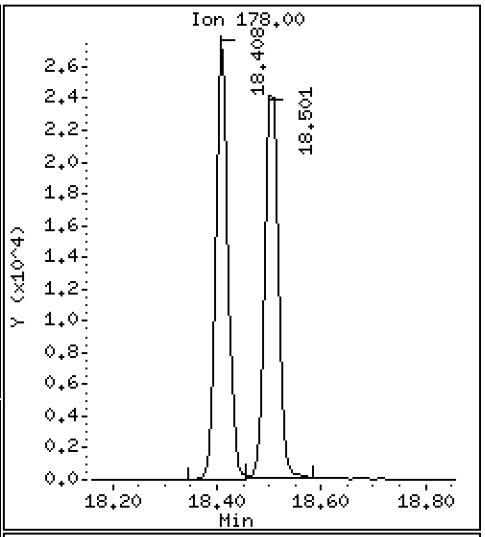
Column phase: ZB-5msi

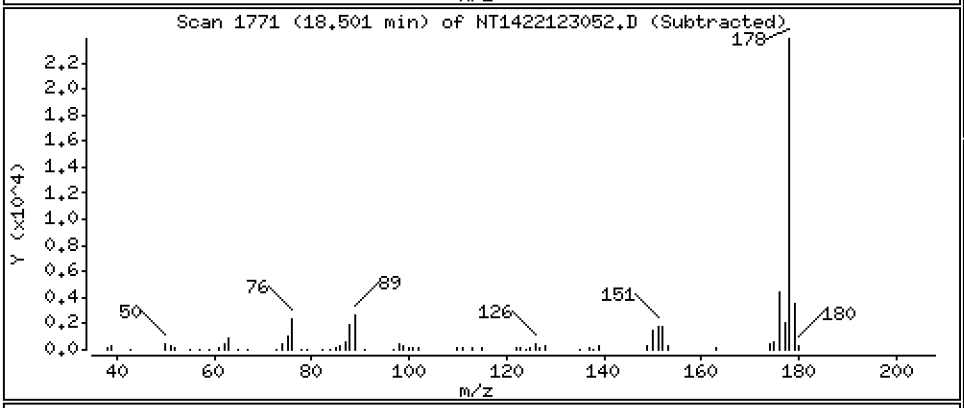
Column diameter: 0.25

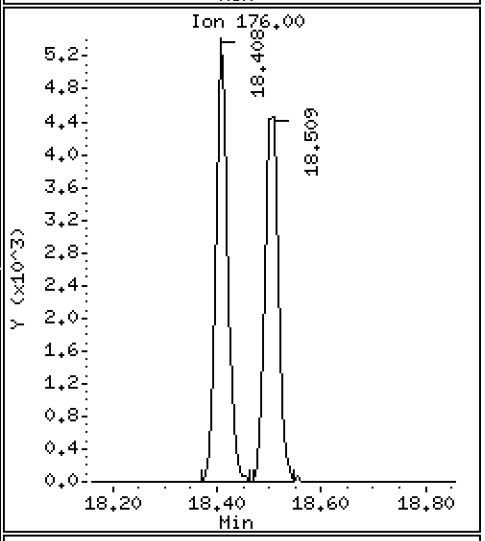
61 Anthracene

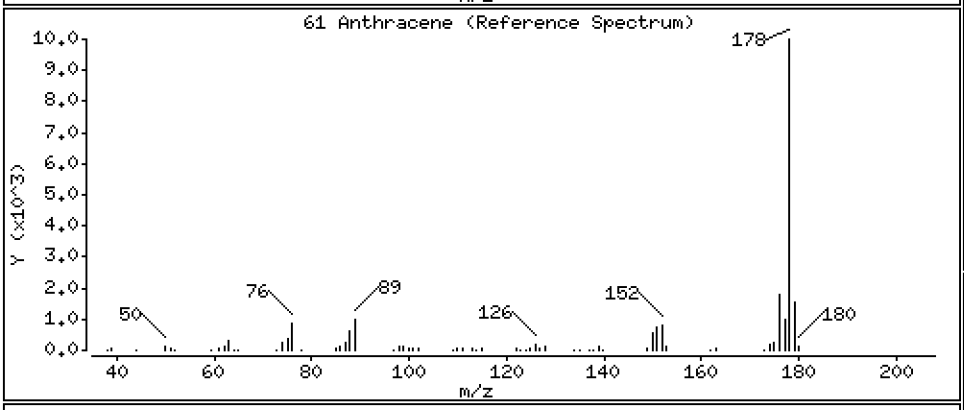
Concentration: 0.4683 ug/mL

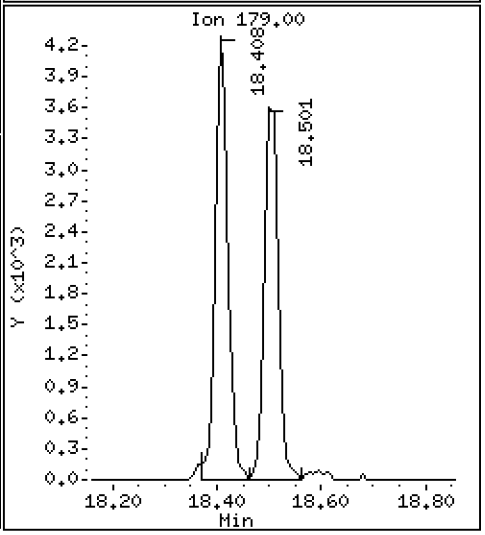


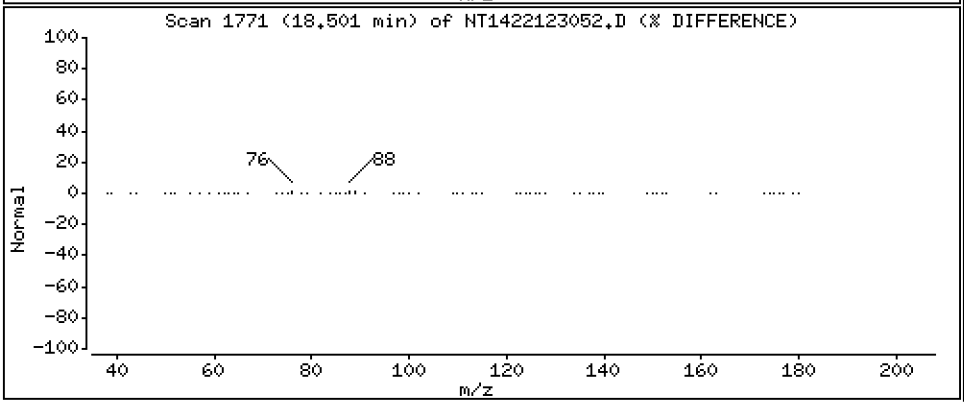












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

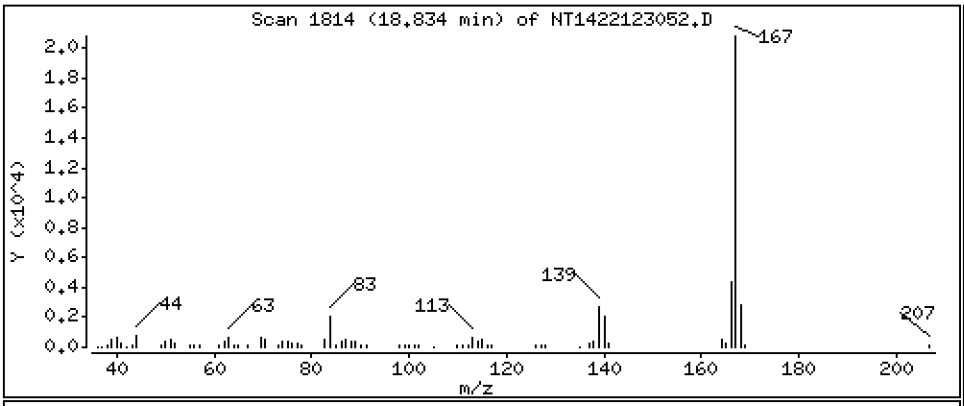
Operator: VTS

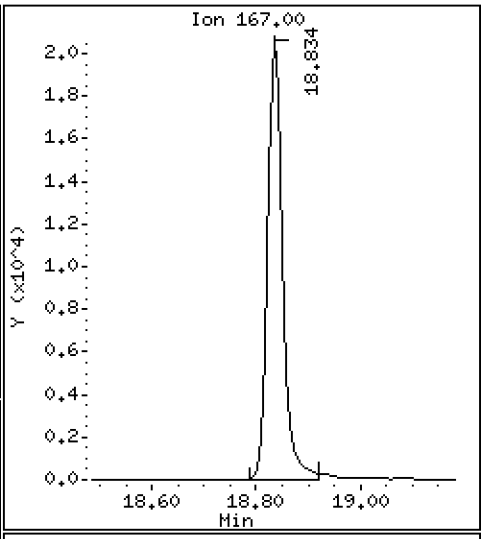
Column phase: ZB-5msi

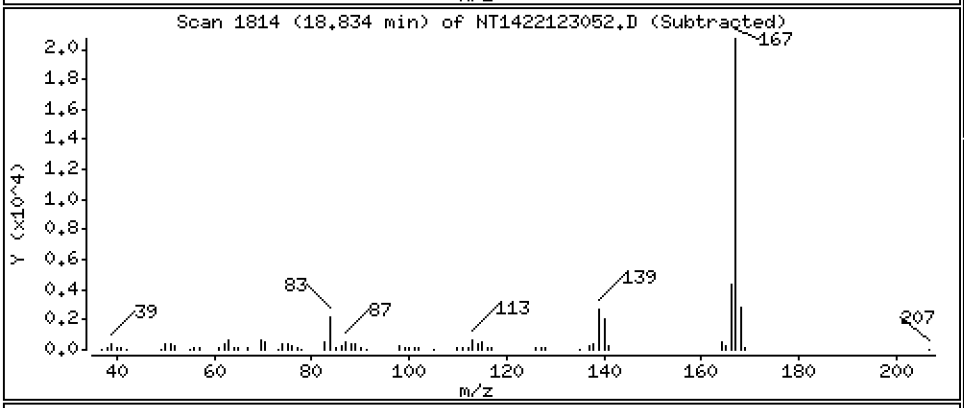
Column diameter: 0.25

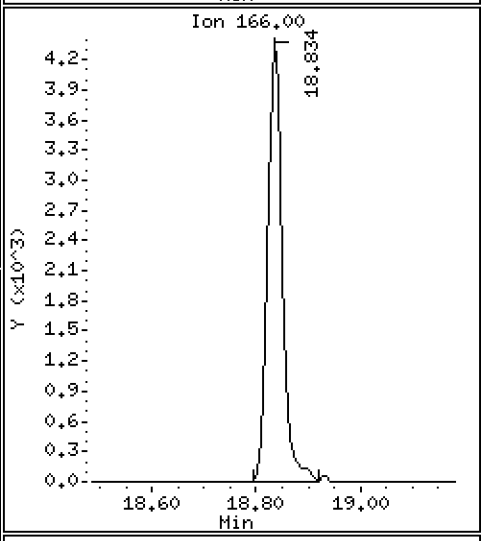
62 Carbazole

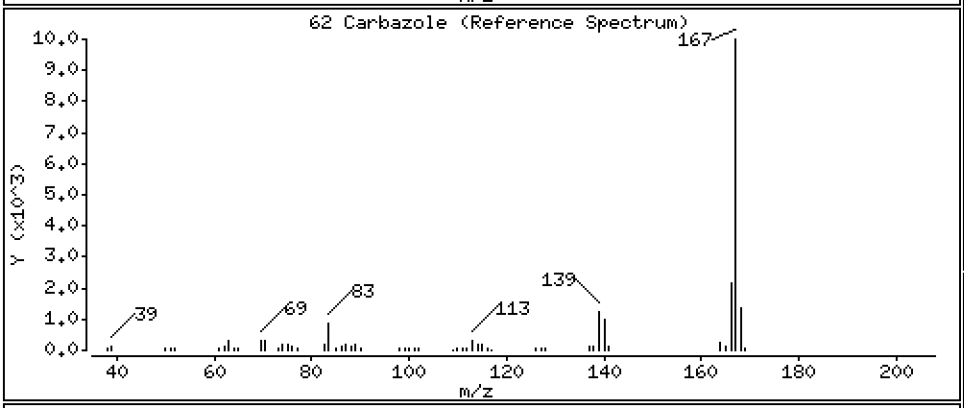
Concentration: 0.4608 ug/mL

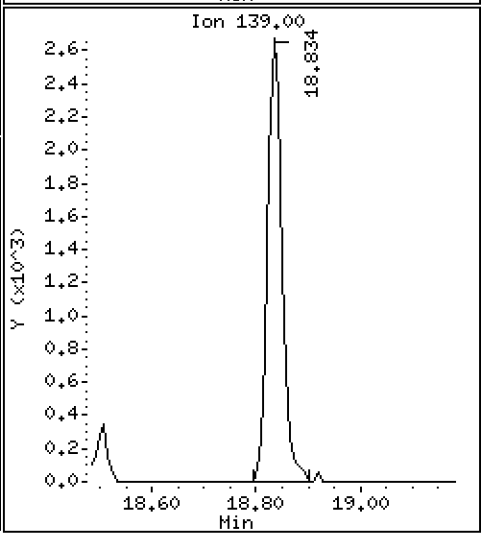


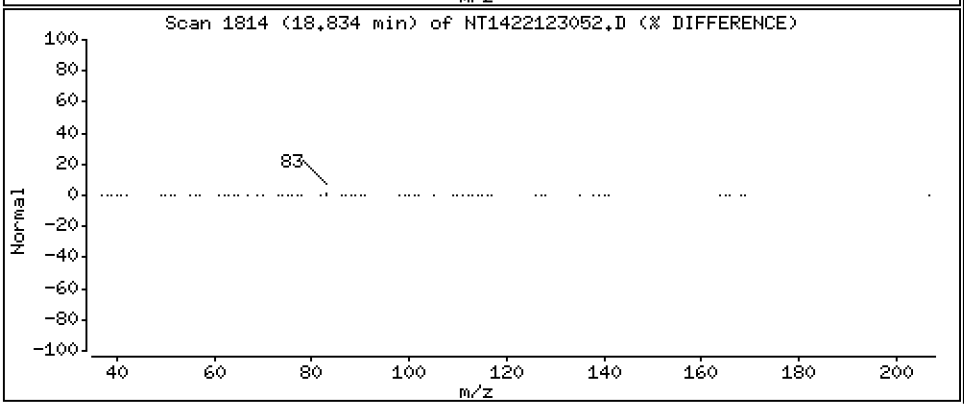












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

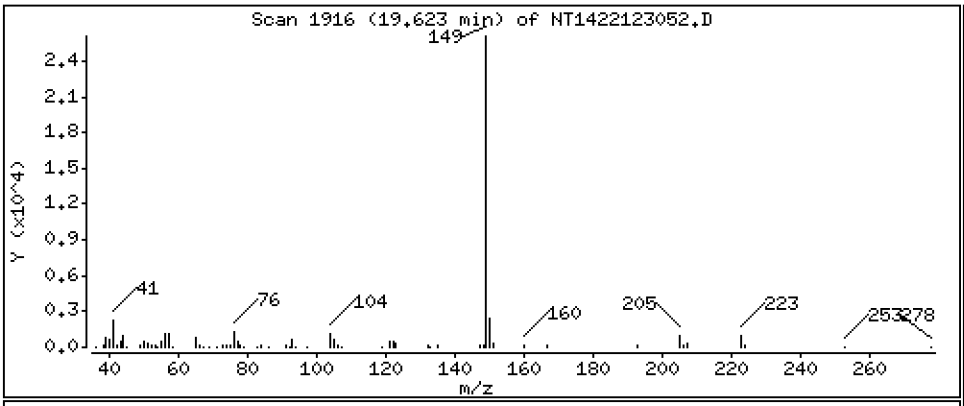
Operator: VTS

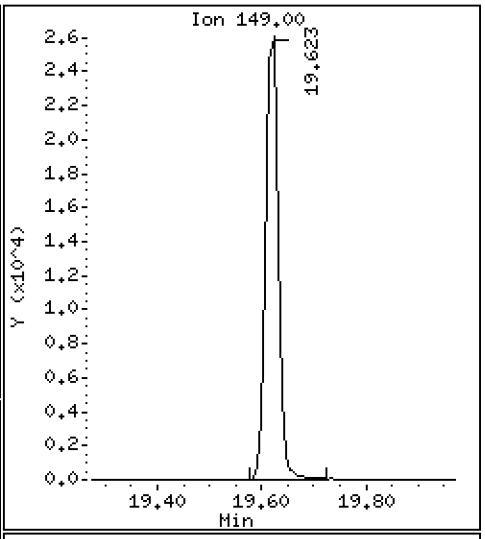
Column phase: ZB-5msi

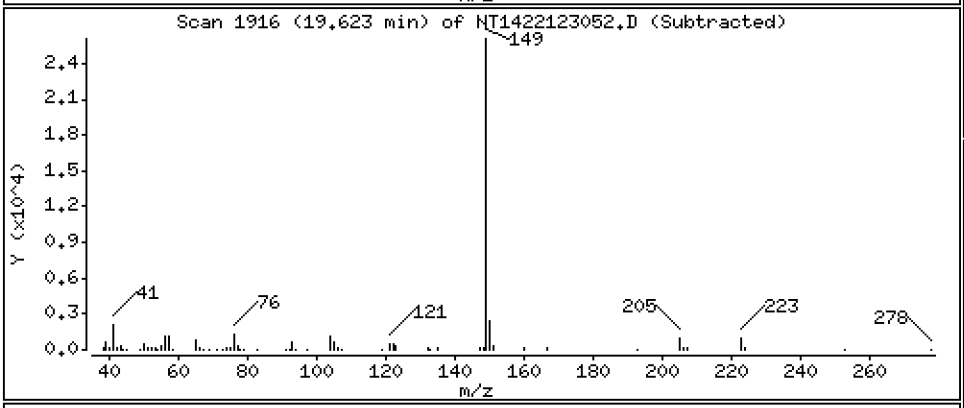
Column diameter: 0.25

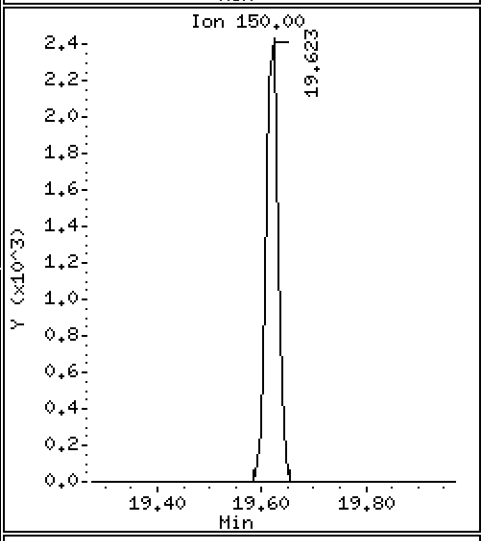
63 Di-n-butylphthalate

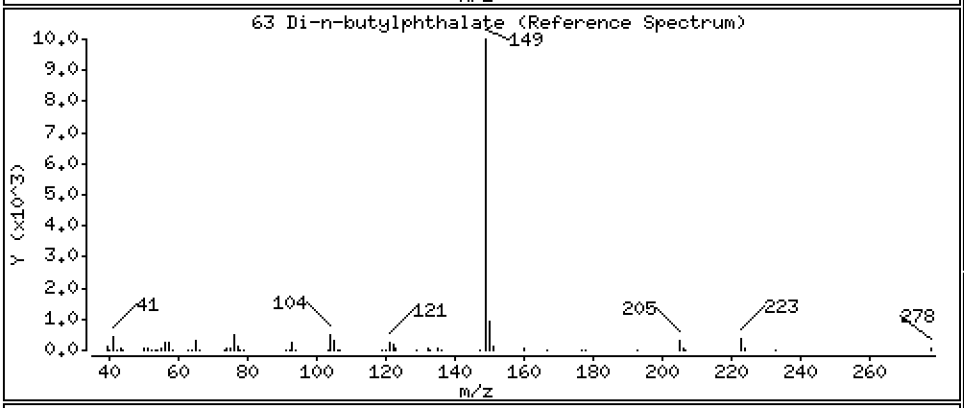
Concentration: 0.4286 ug/mL

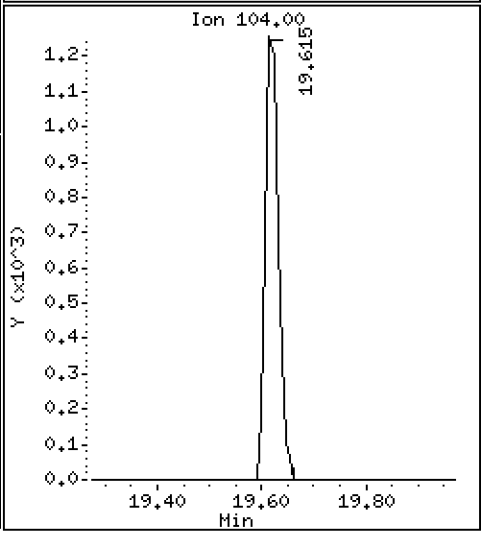


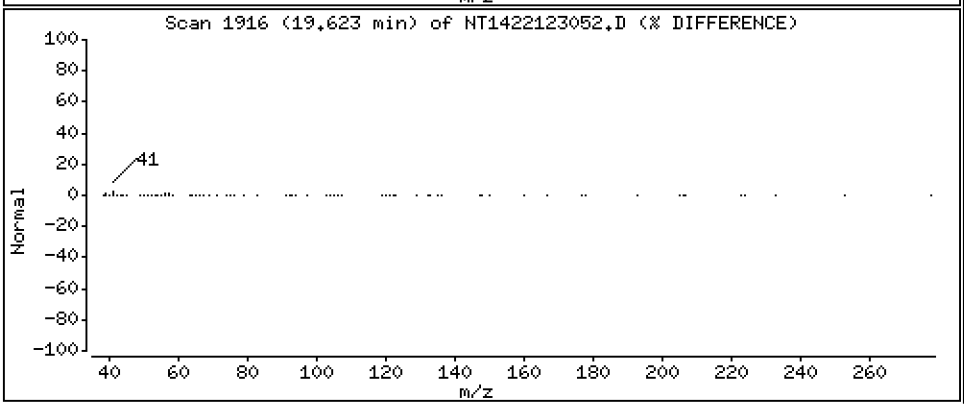












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

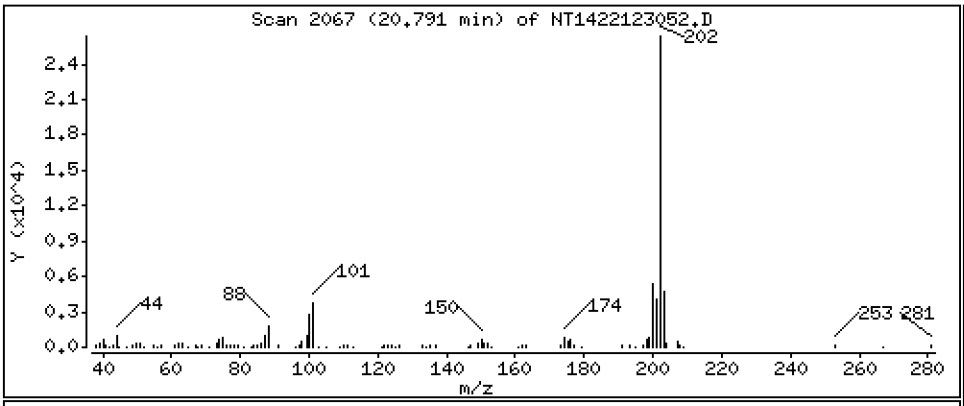
Operator: VTS

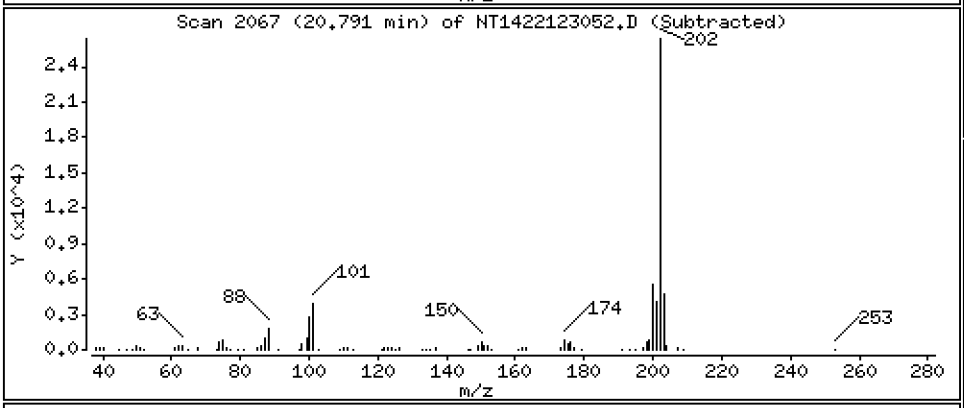
Column phase: ZB-5msi

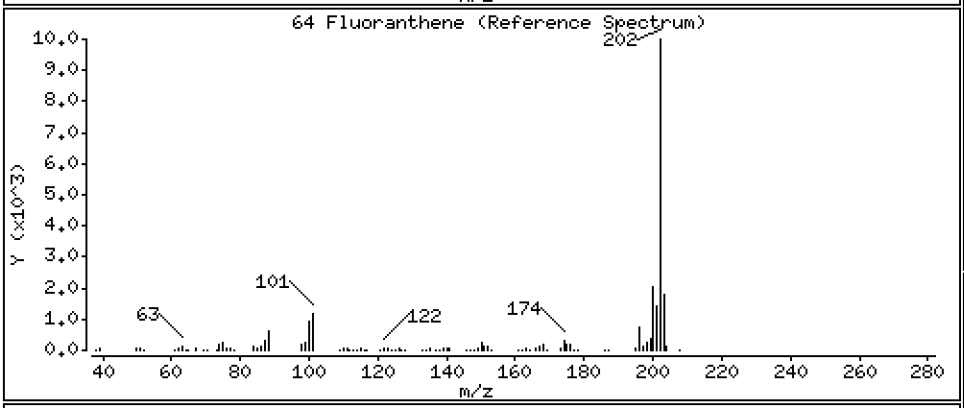
Column diameter: 0.25

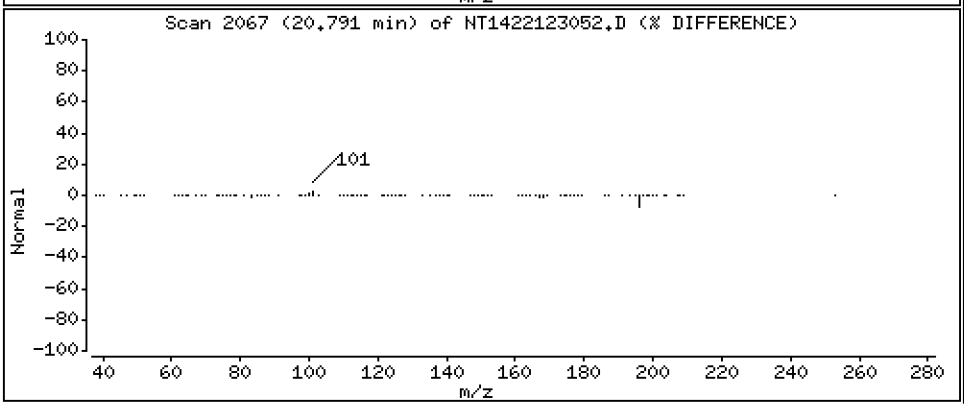
64 Fluoranthene

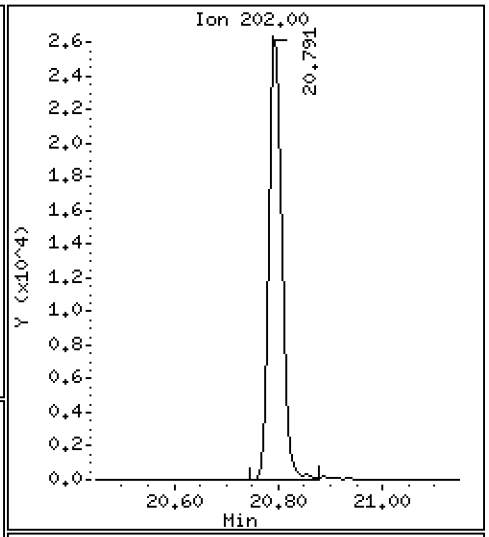
Concentration: 0.4643 ug/mL

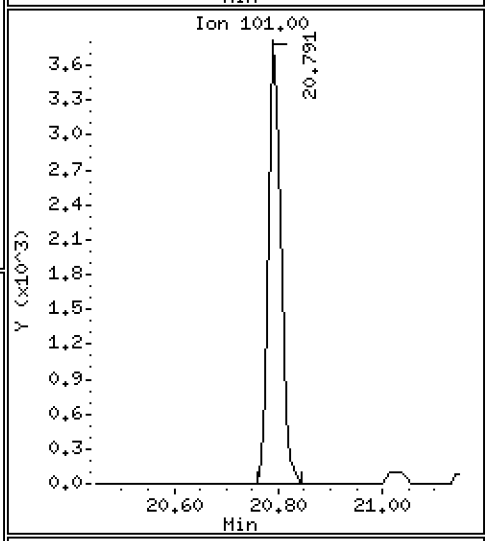


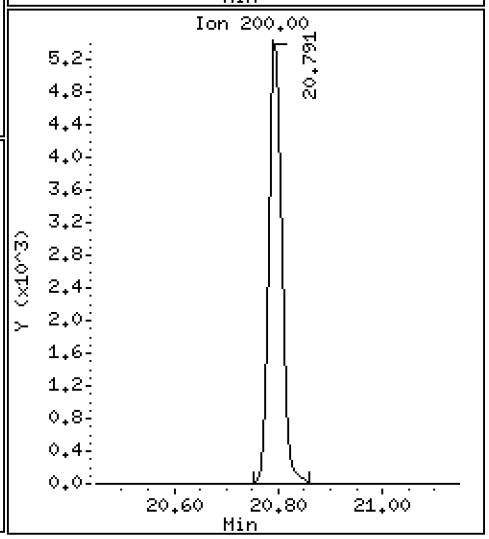












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

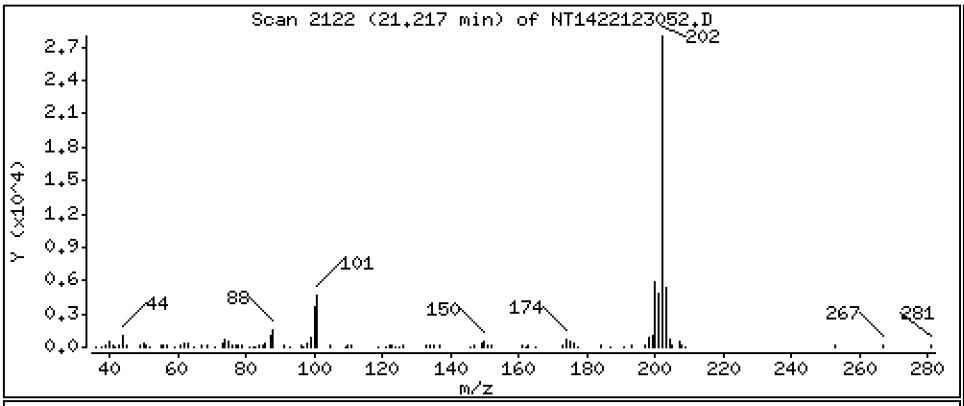
Operator: VTS

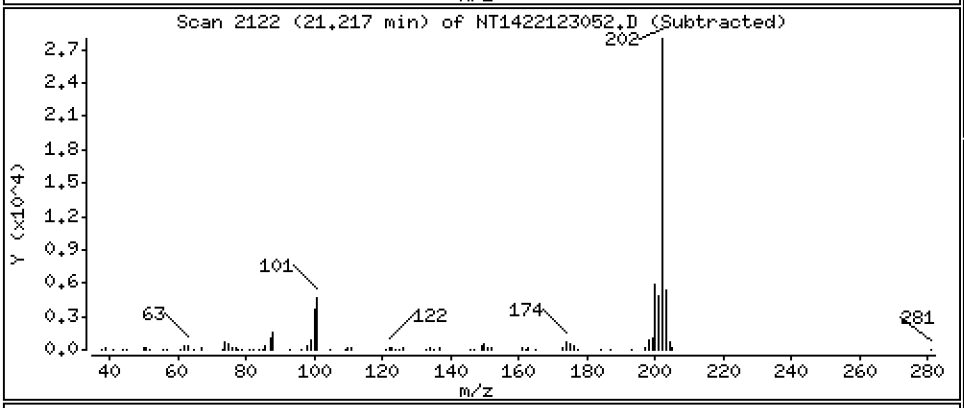
Column phase: ZB-5msi

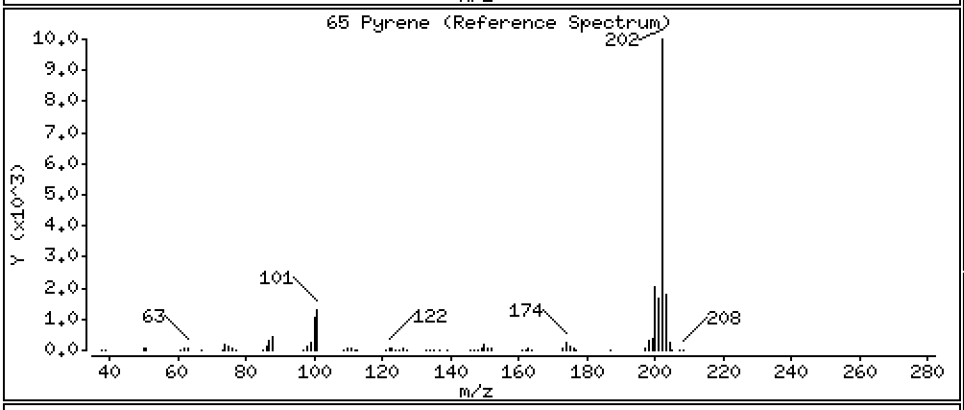
Column diameter: 0.25

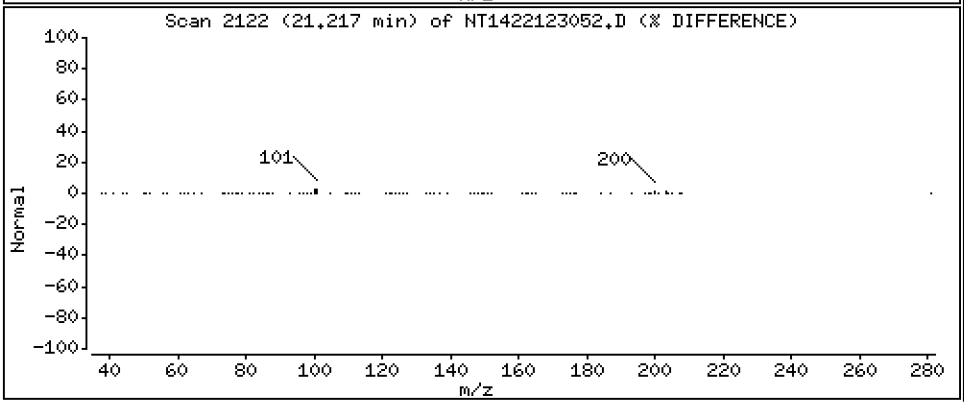
65 Pyrene

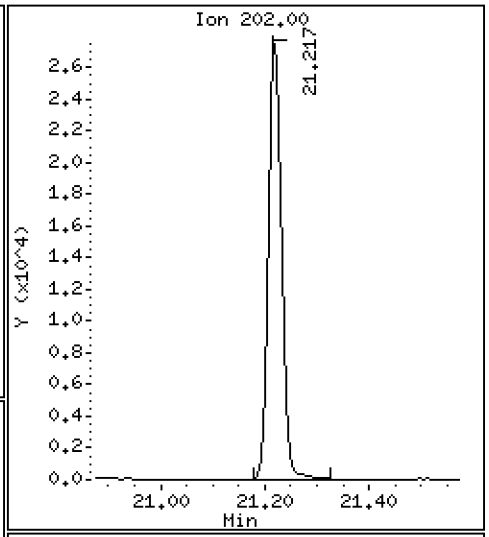
Concentration: 0.4679 ug/mL

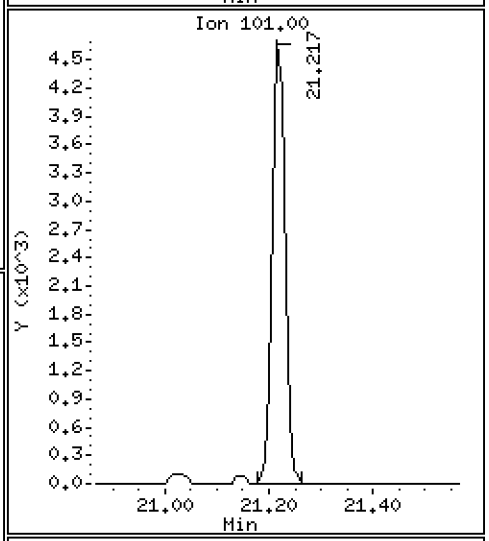


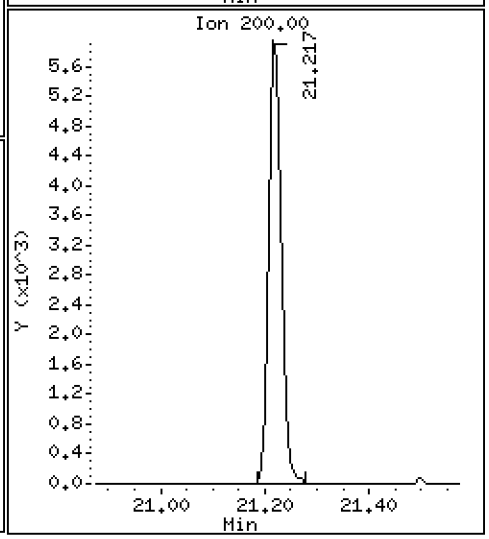












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

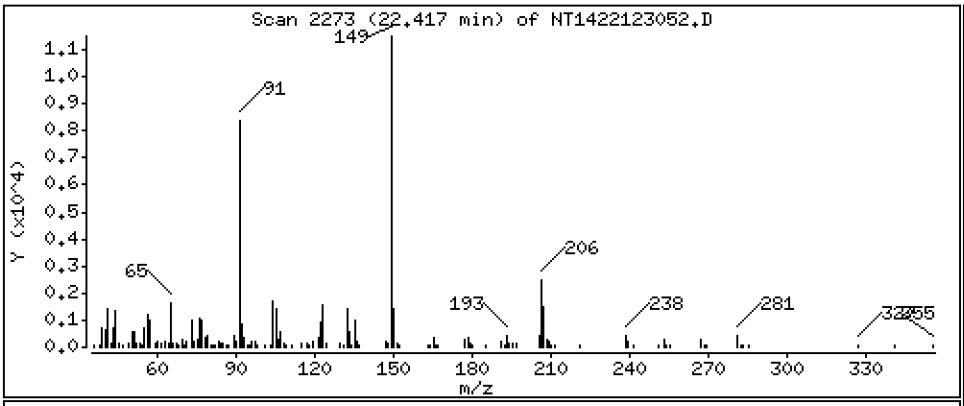
Operator: VTS

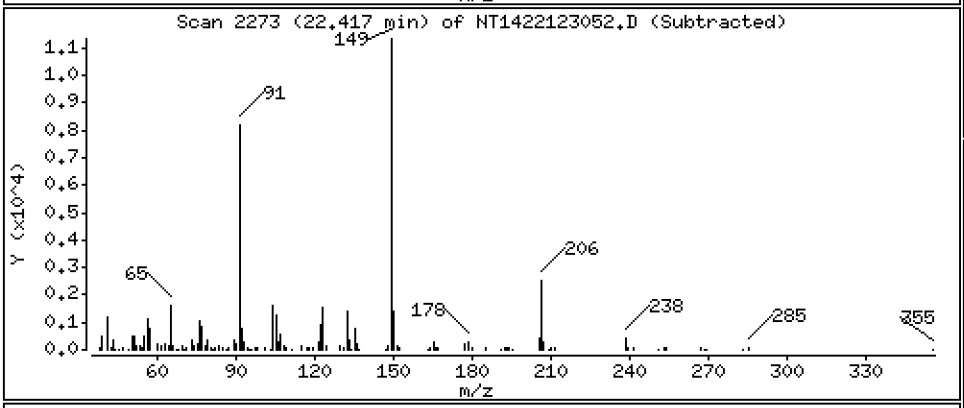
Column phase: ZB-5msi

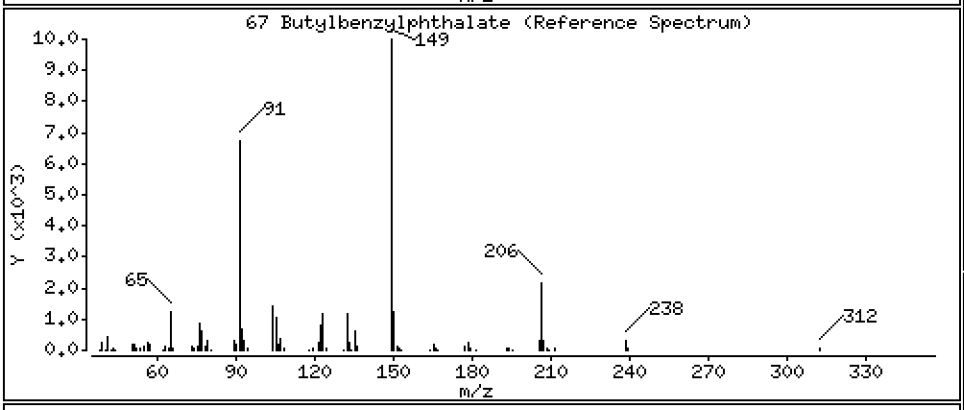
Column diameter: 0.25

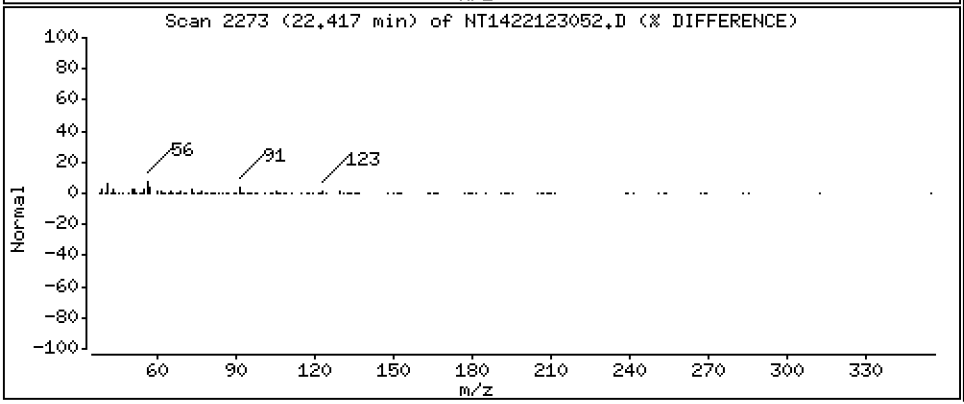
67 Butylbenzylphthalate

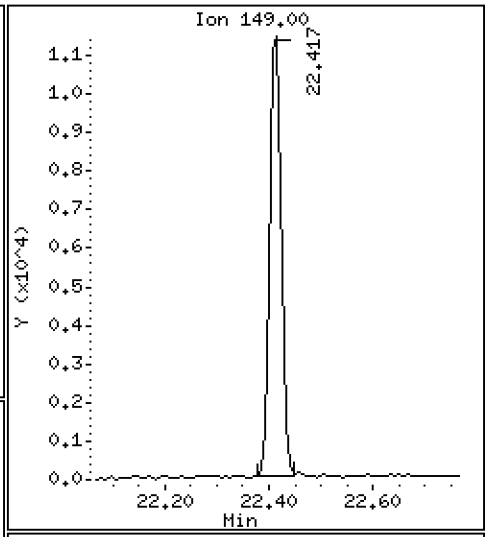
Concentration: 0.4436 ug/mL

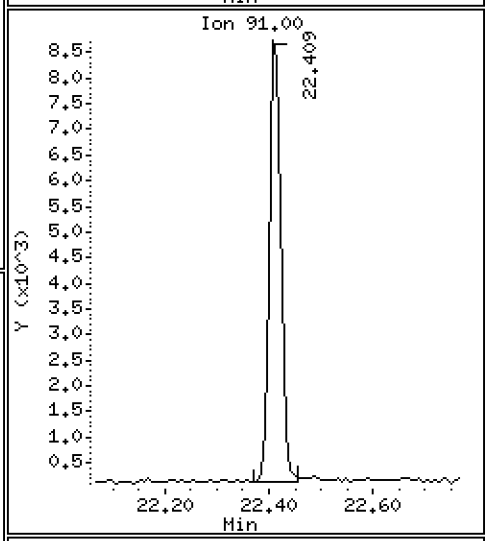


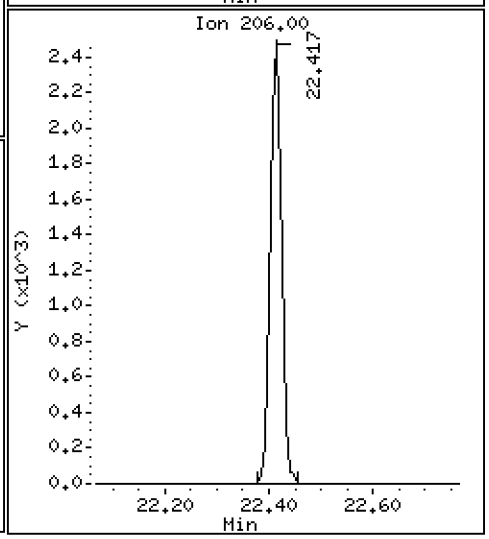












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

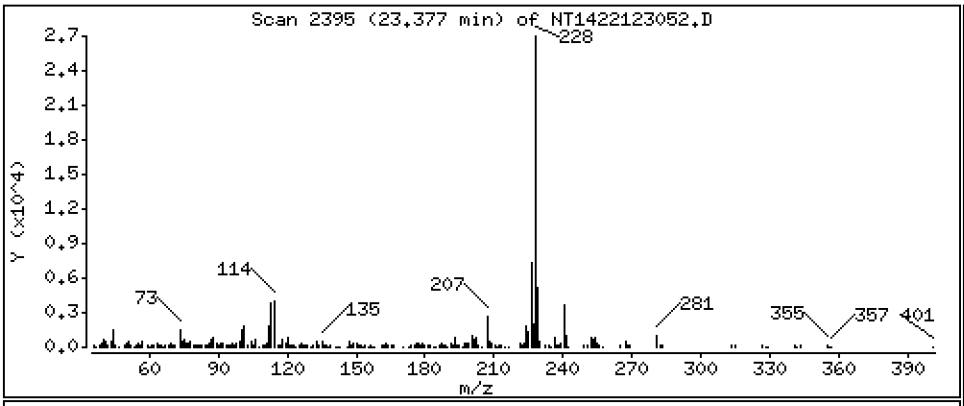
Operator: VTS

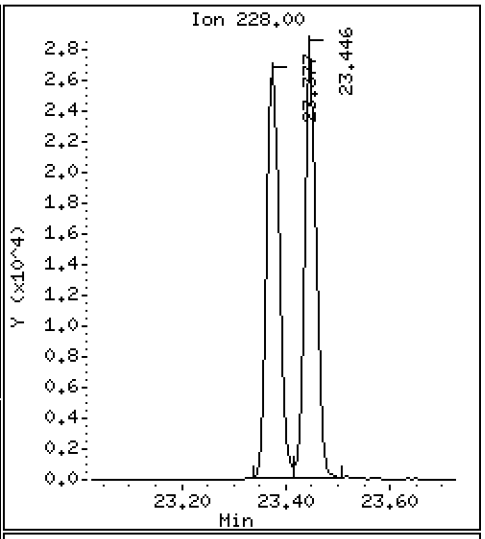
Column phase: ZB-5msi

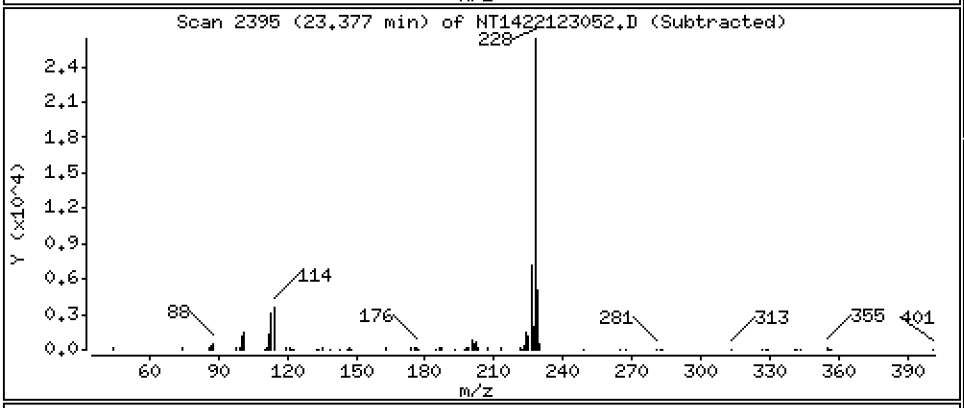
Column diameter: 0.25

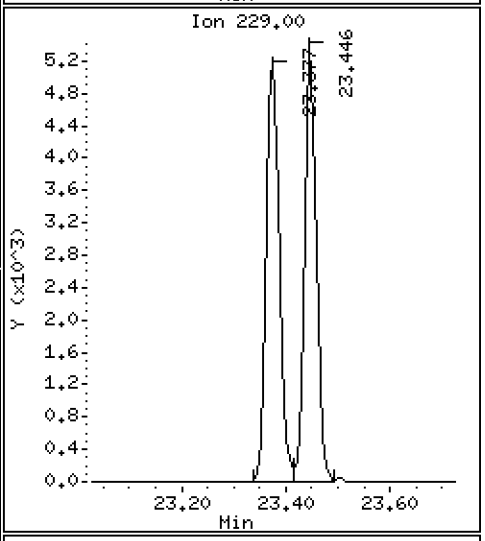
68 Benzo(a)anthracene

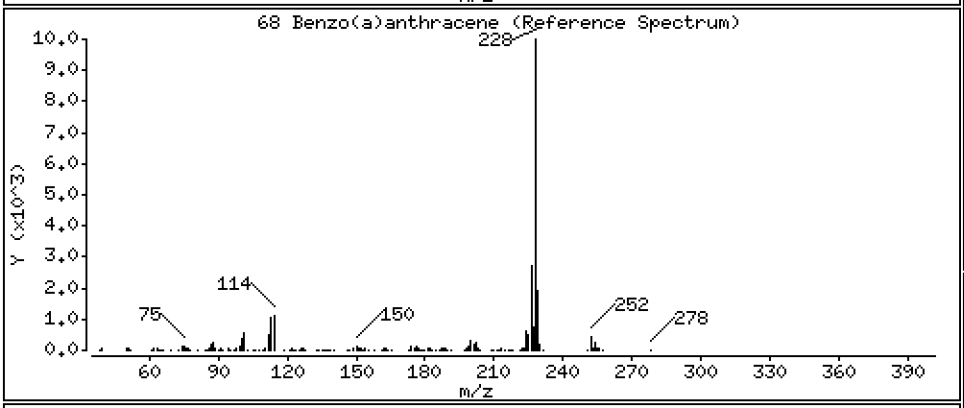
Concentration: 0.4849 ug/mL

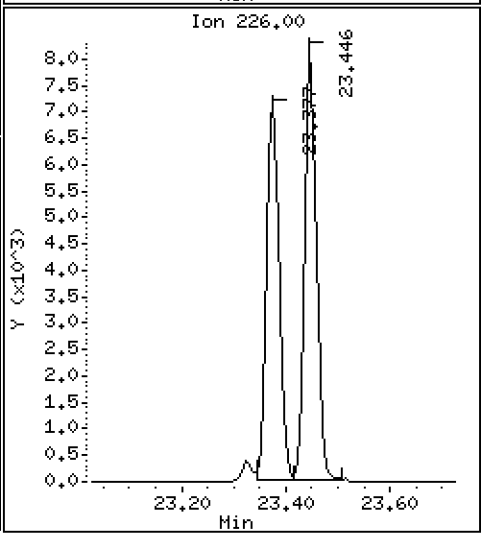


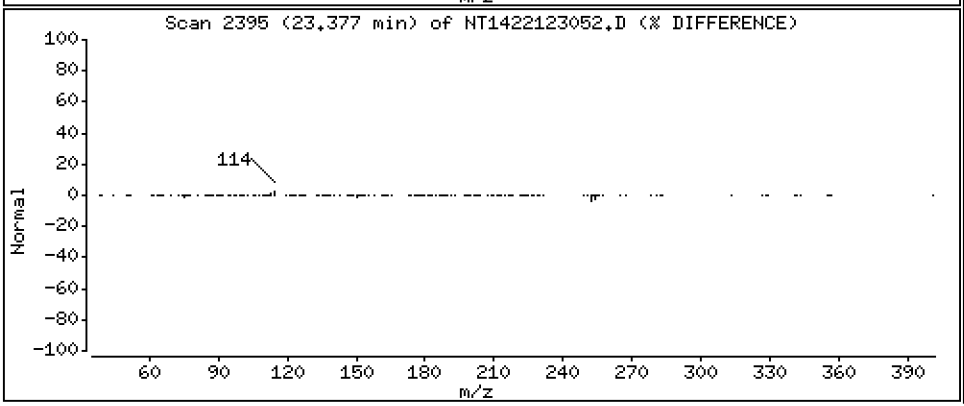












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

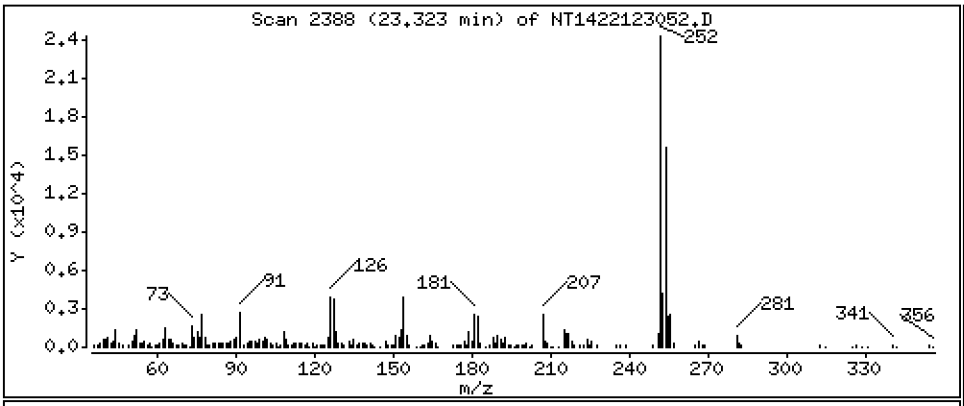
Operator: VTS

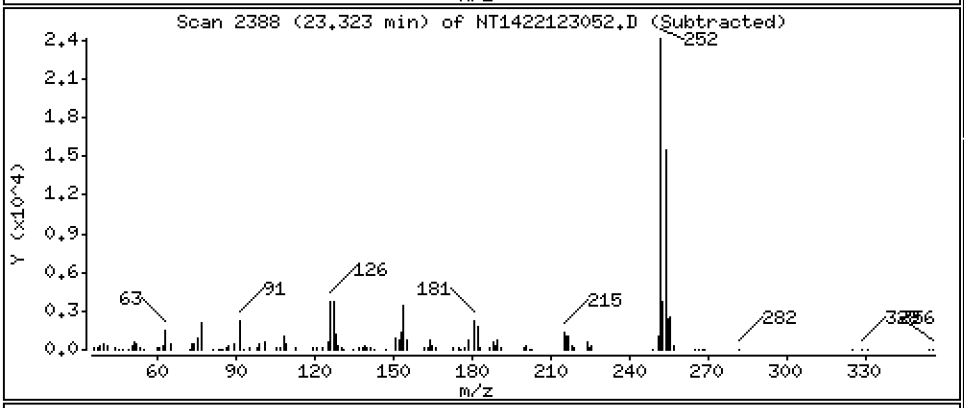
Column phase: ZB-5msi

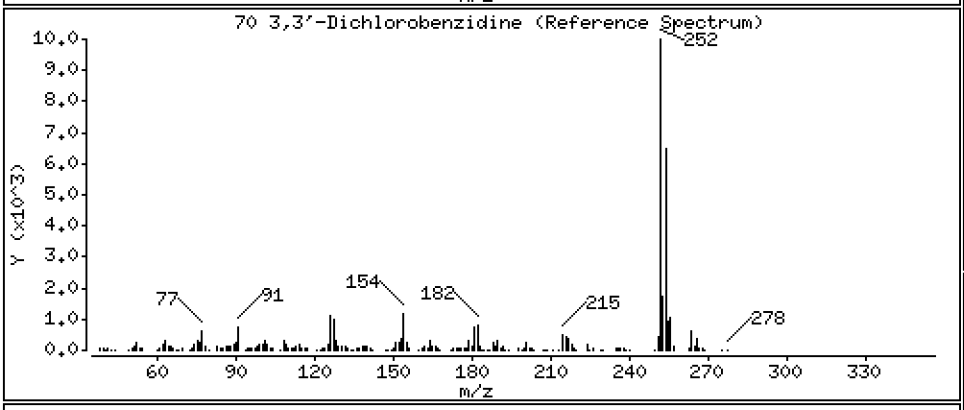
Column diameter: 0.25

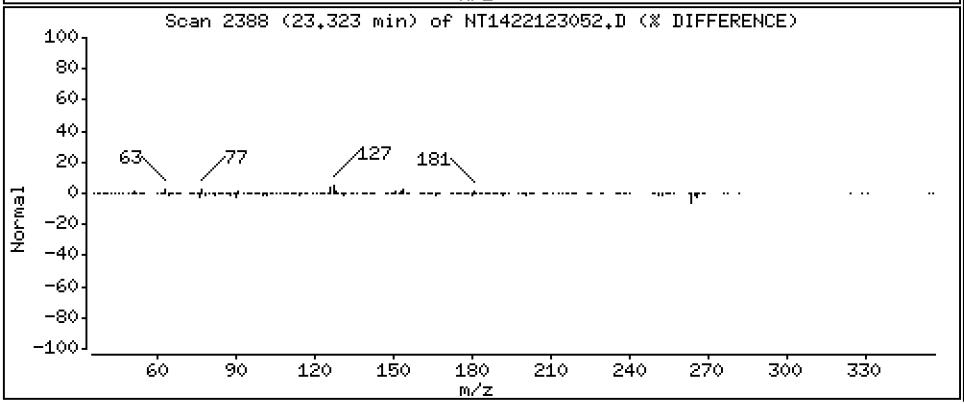
70 3,3'-Dichlorobenzidine

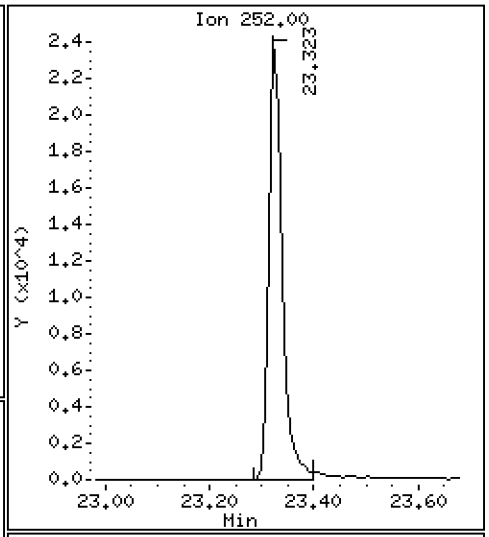
Concentration: 1.479 ug/mL

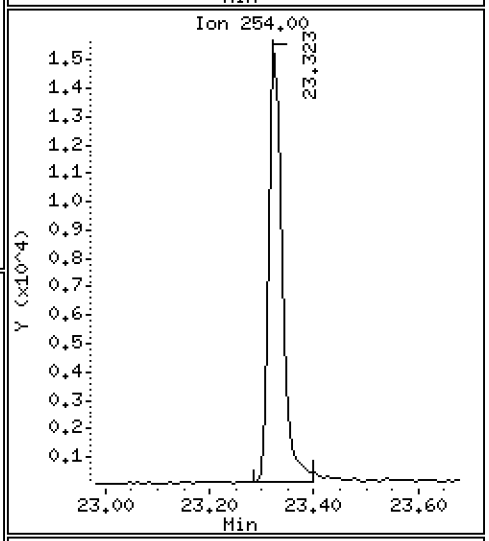


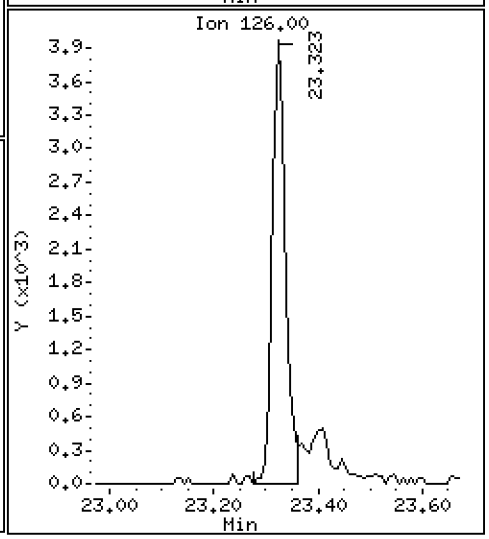












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

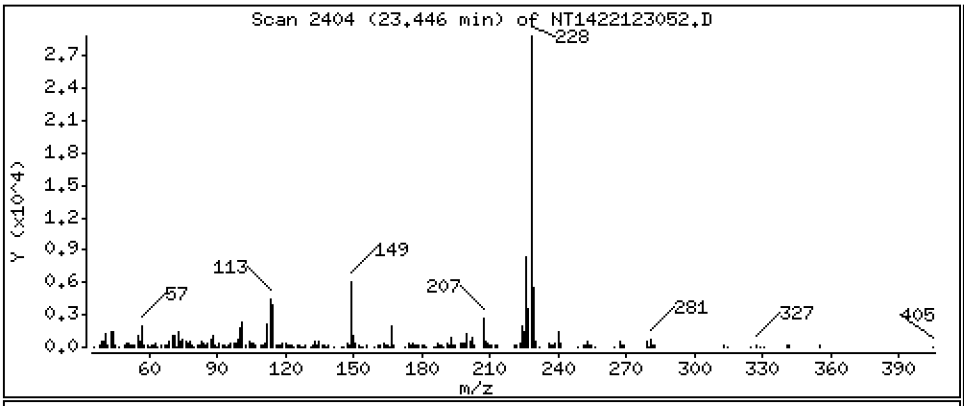
Operator: VTS

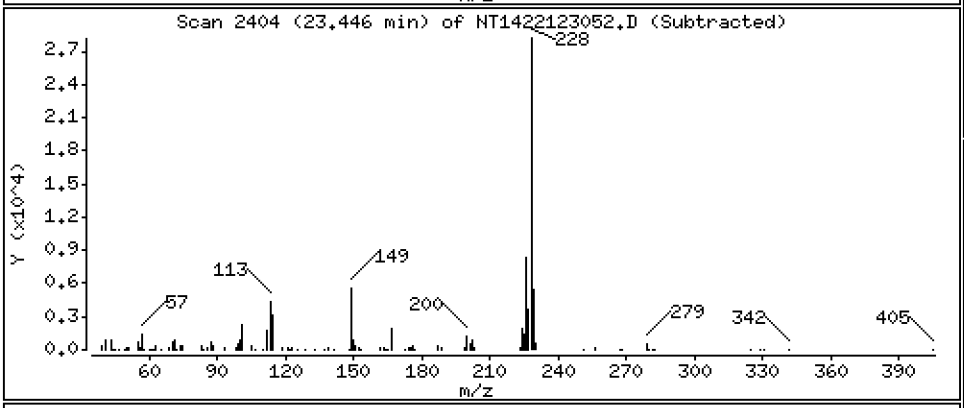
Column phase: ZB-5msi

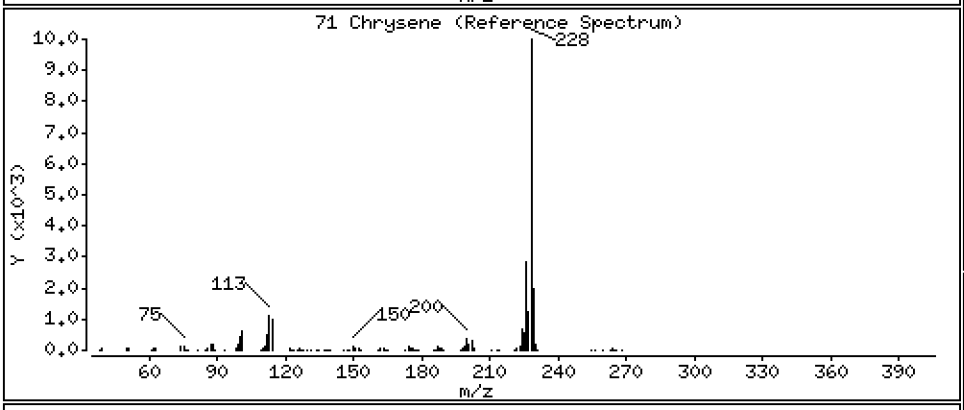
Column diameter: 0.25

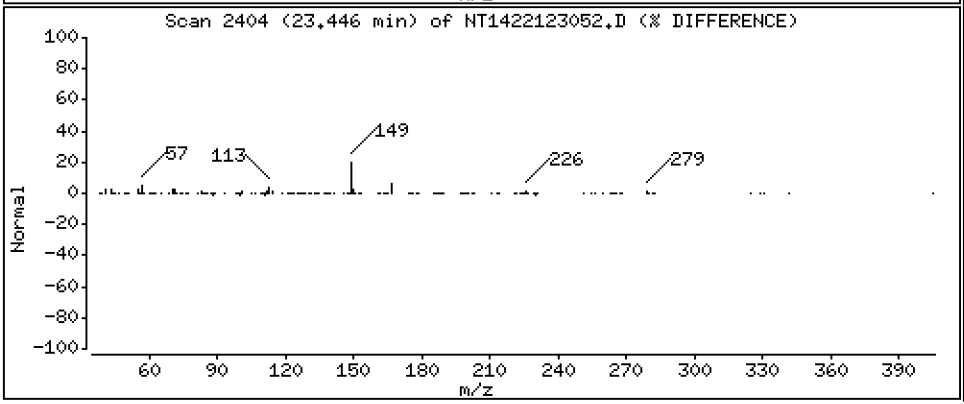
71 Chrysene

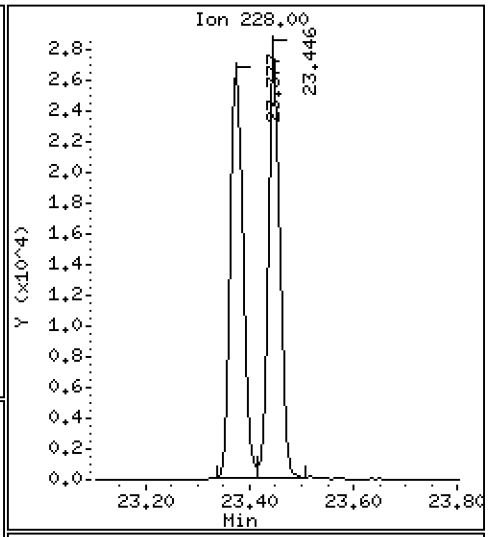
Concentration: 0.4899 ug/mL

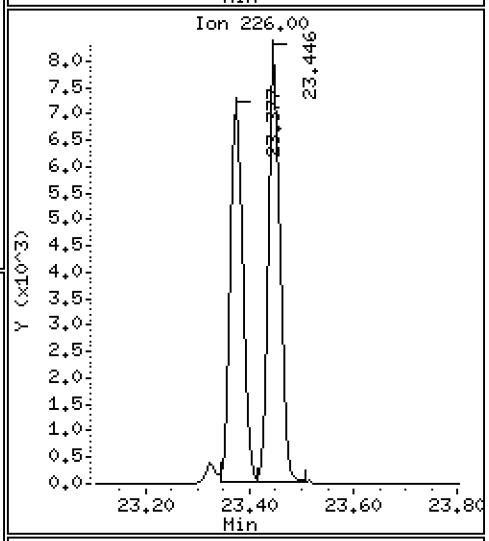


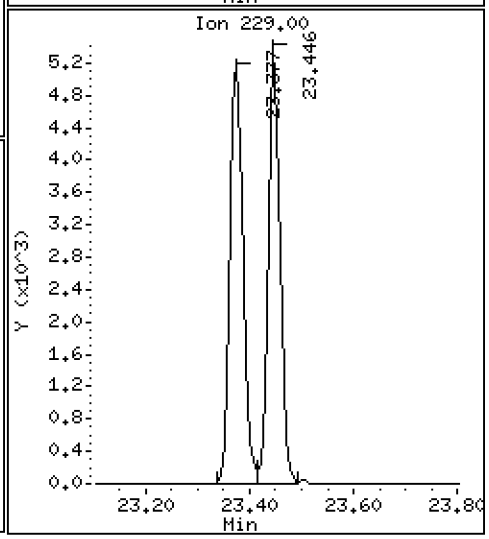












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

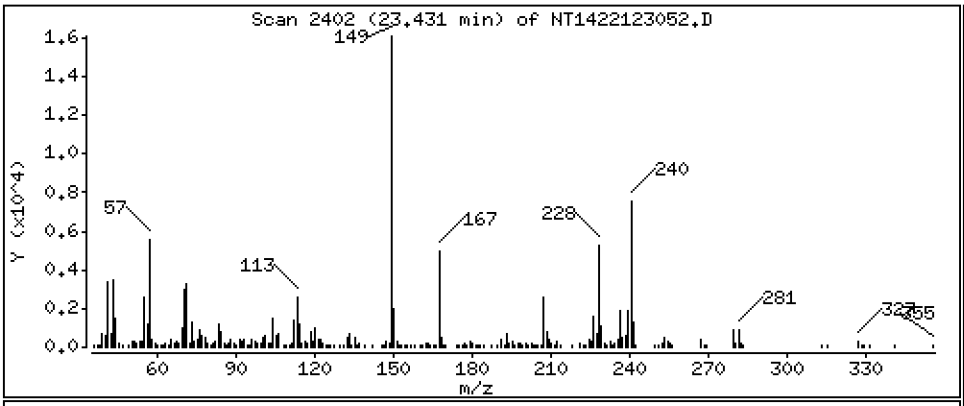
Operator: VTS

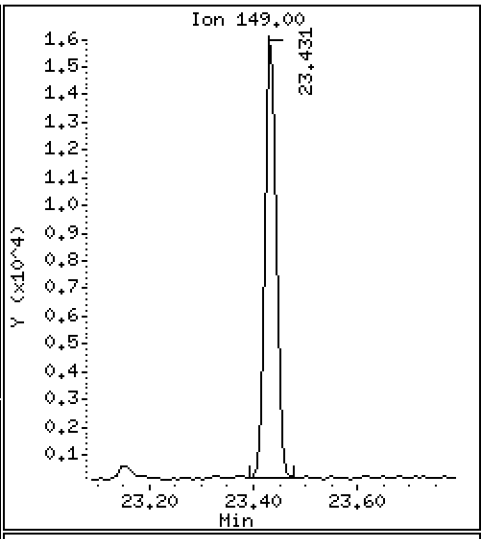
Column phase: ZB-5msi

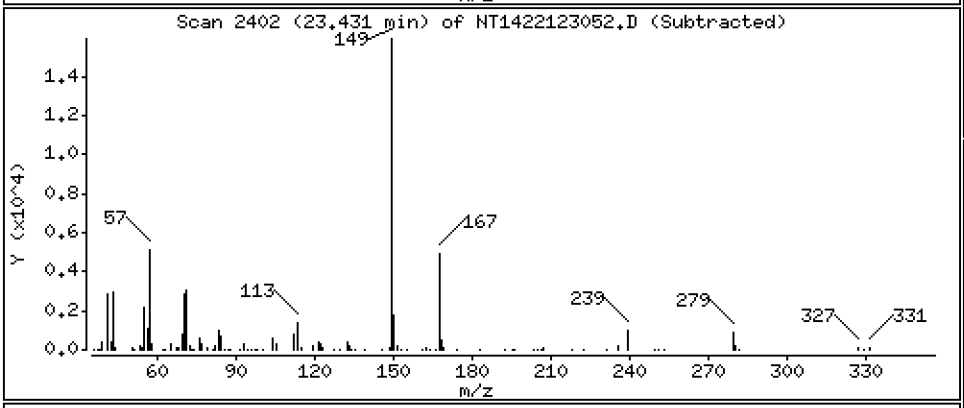
Column diameter: 0.25

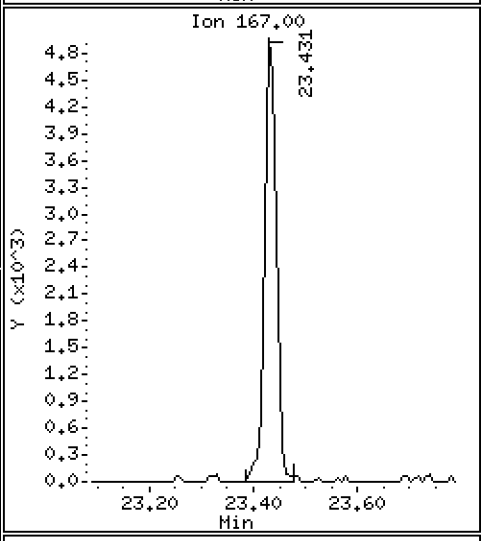
72 bis(2-Ethylhexyl)phthalate

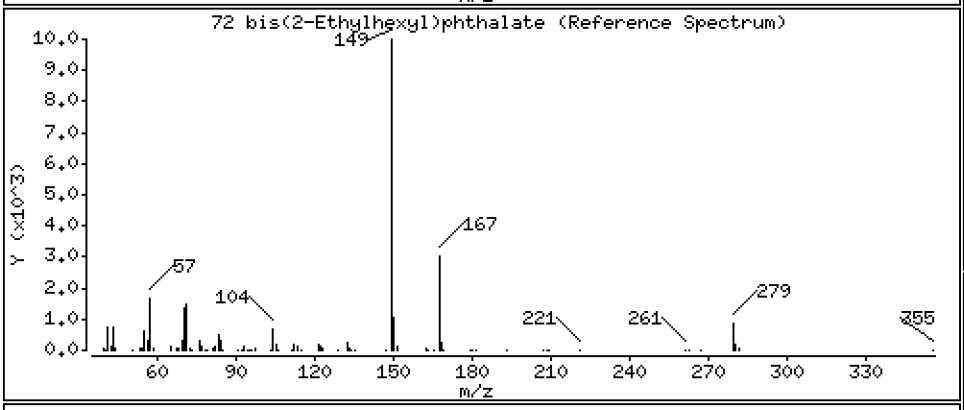
Concentration: 0.4704 ug/mL

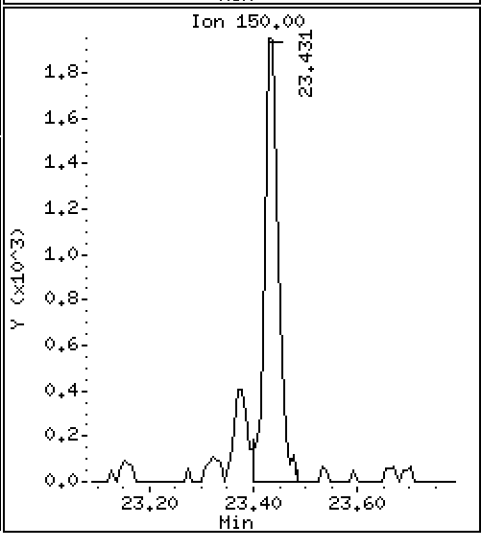


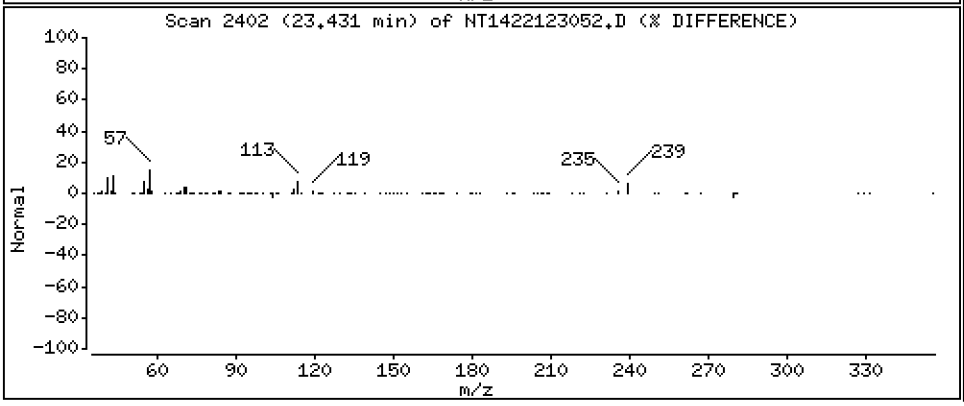












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

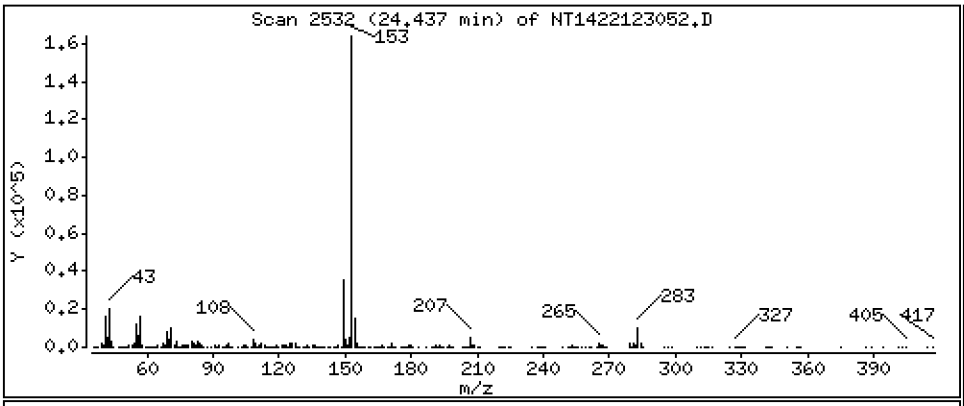
Operator: VTS

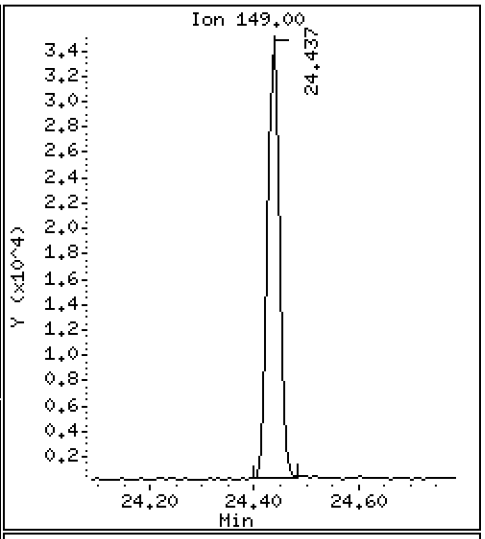
Column phase: ZB-5msi

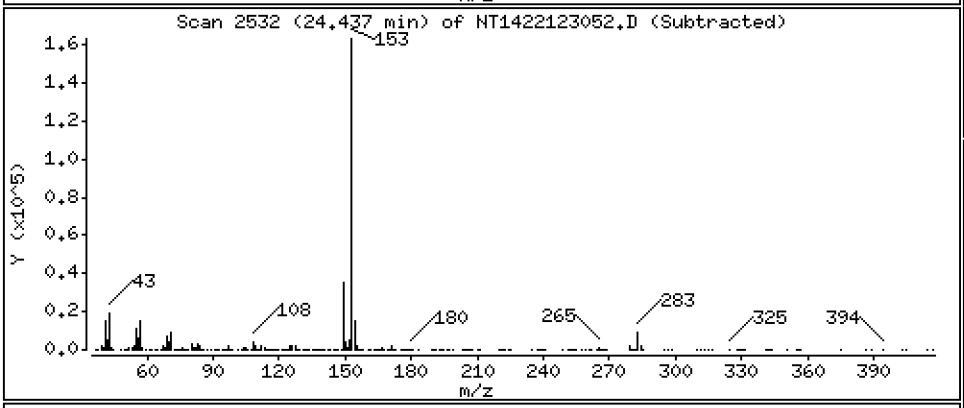
Column diameter: 0.25

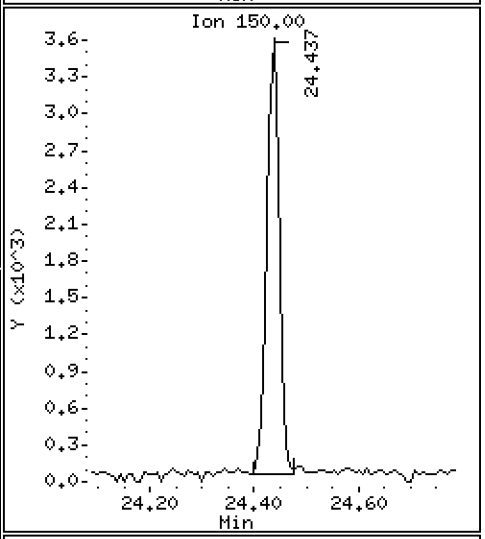
73 Di-n-octylphthalate

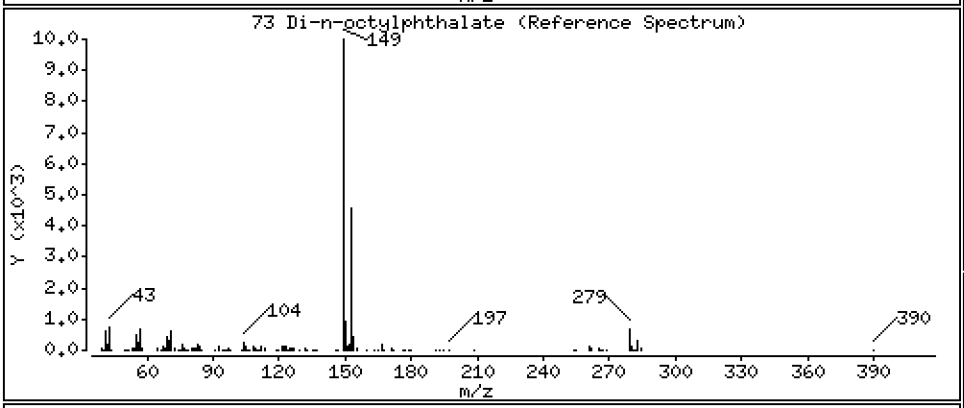
Concentration: 0.4879 ug/mL

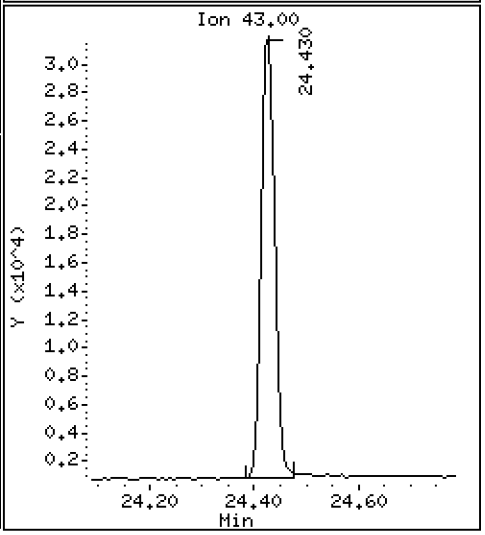


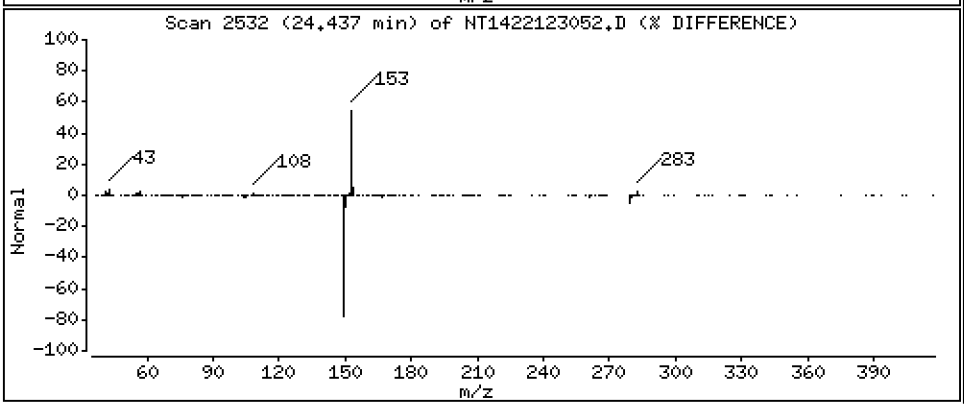












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

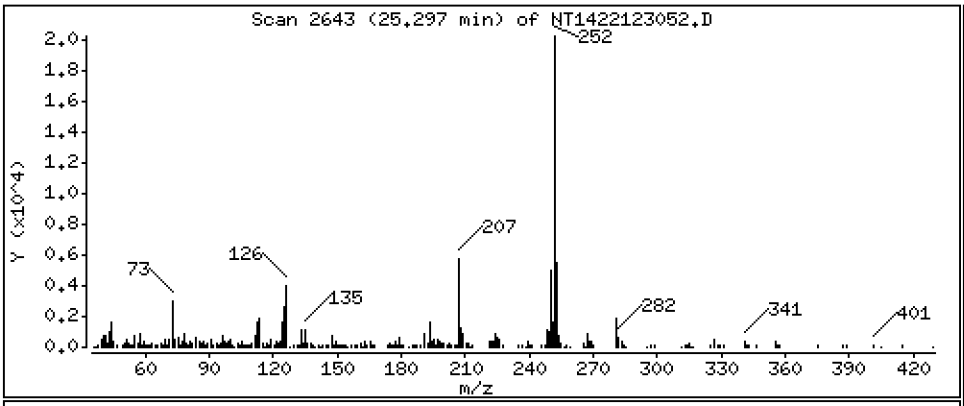
Operator: VTS

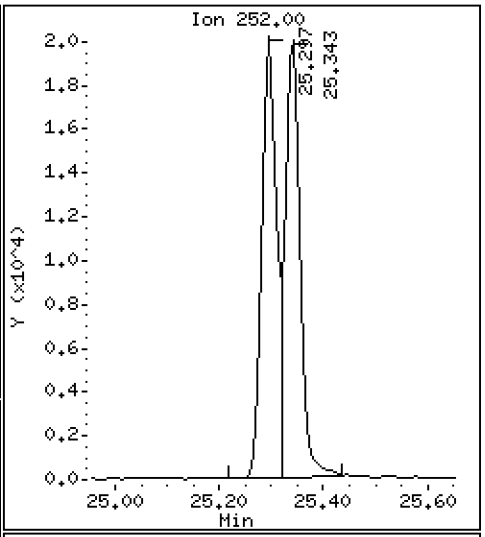
Column phase: ZB-5msi

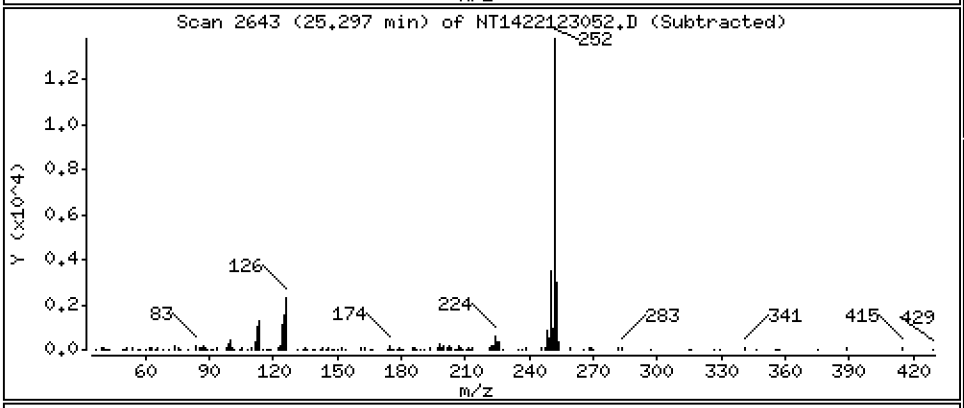
Column diameter: 0.25

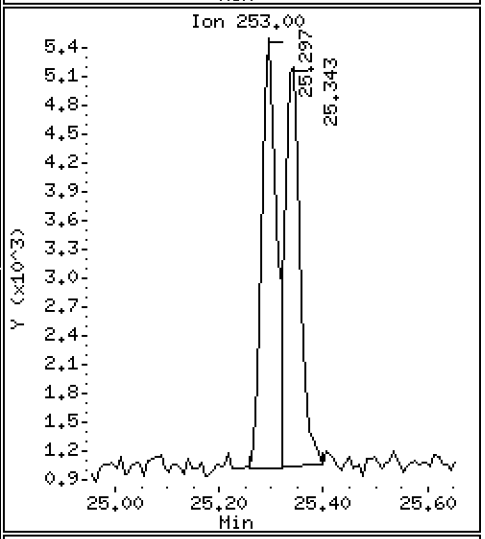
74 Benzo(b)fluoranthene

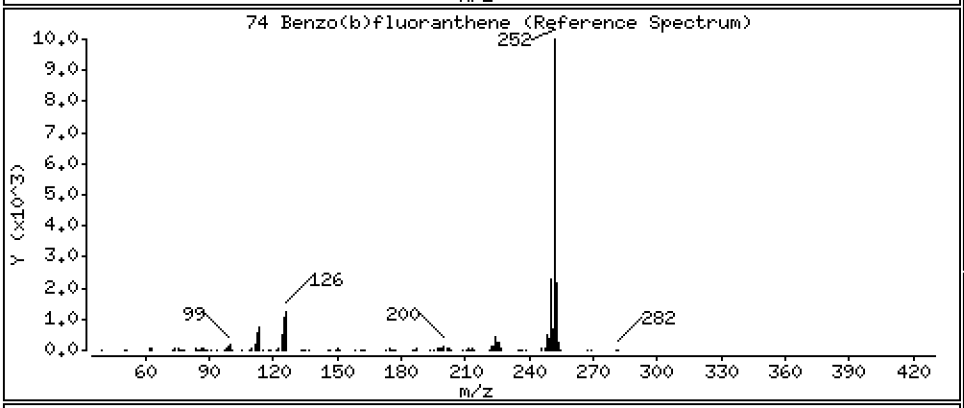
Concentration: 0.5079 ug/mL

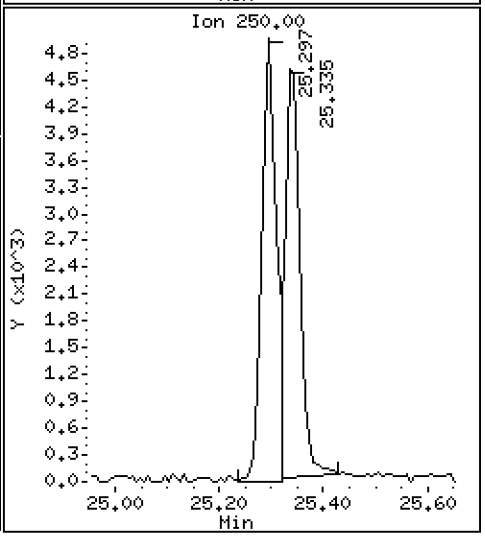


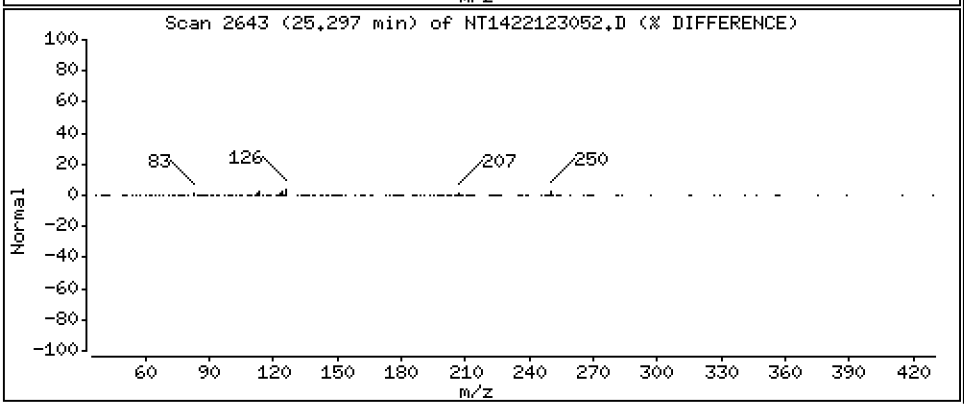












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

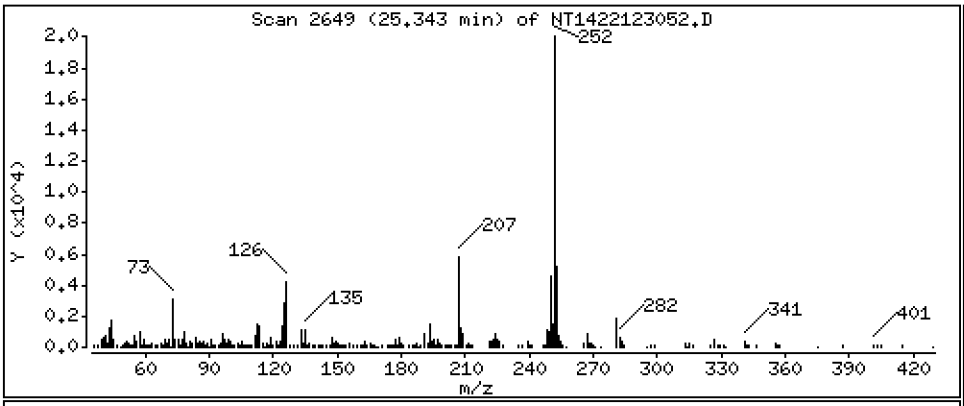
Operator: VTS

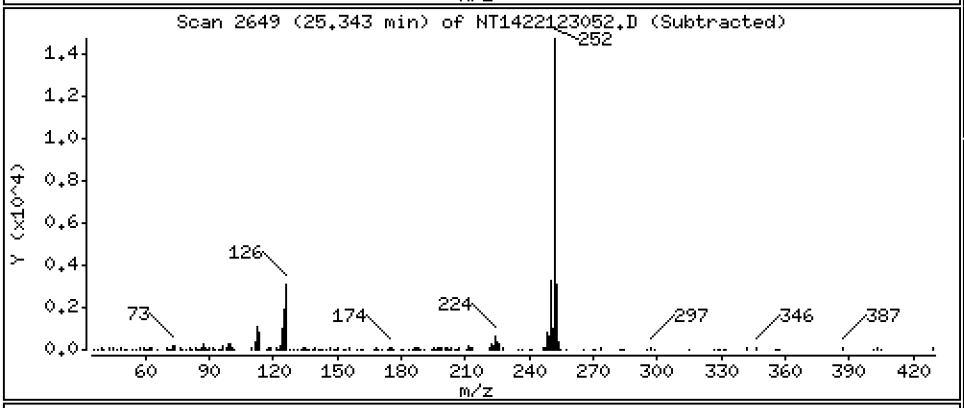
Column phase: ZB-5msi

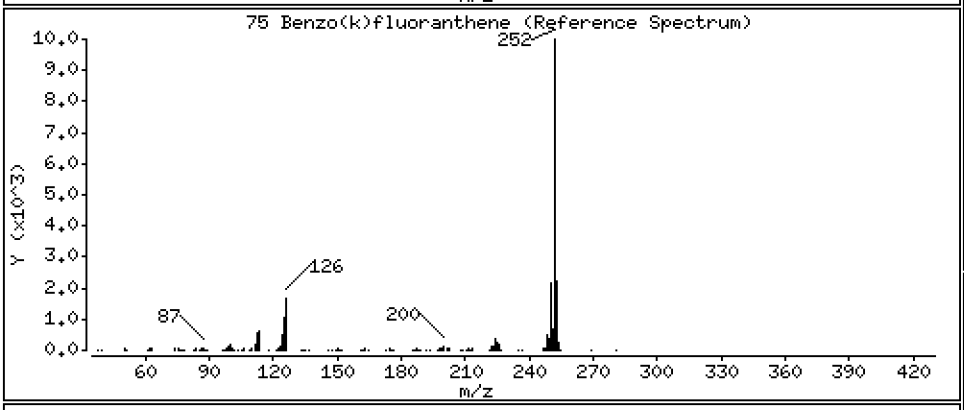
Column diameter: 0.25

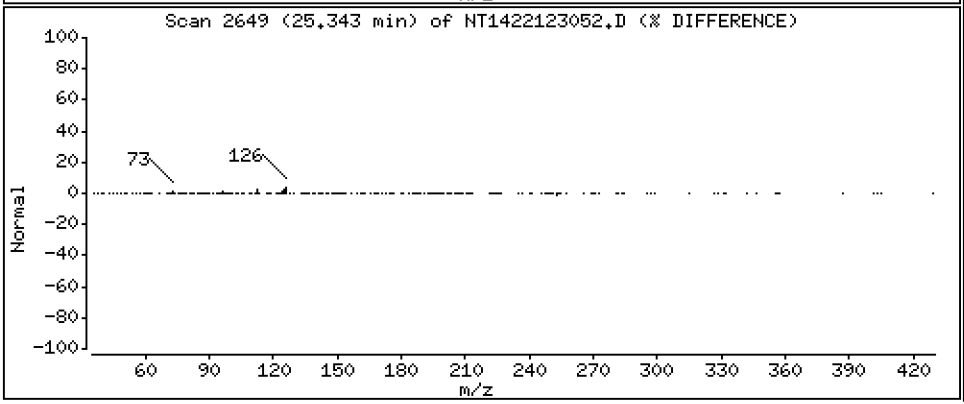
75 Benzo(k)fluoranthene

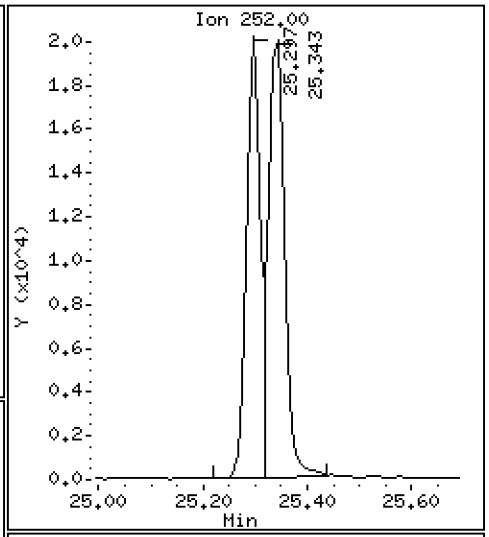
Concentration: 0.5155 ug/mL

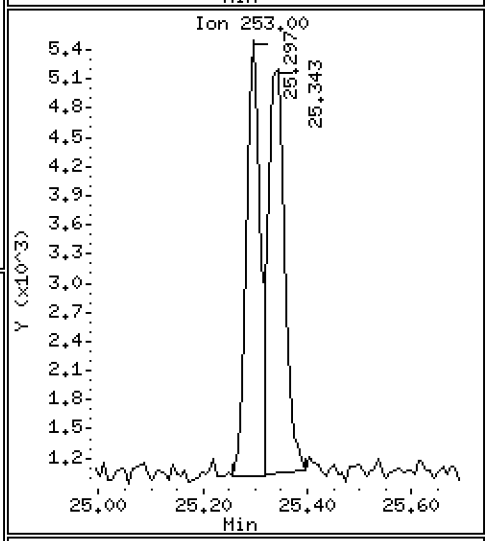


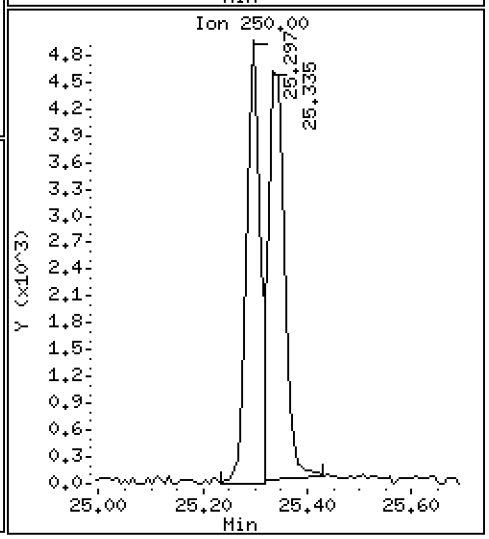












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

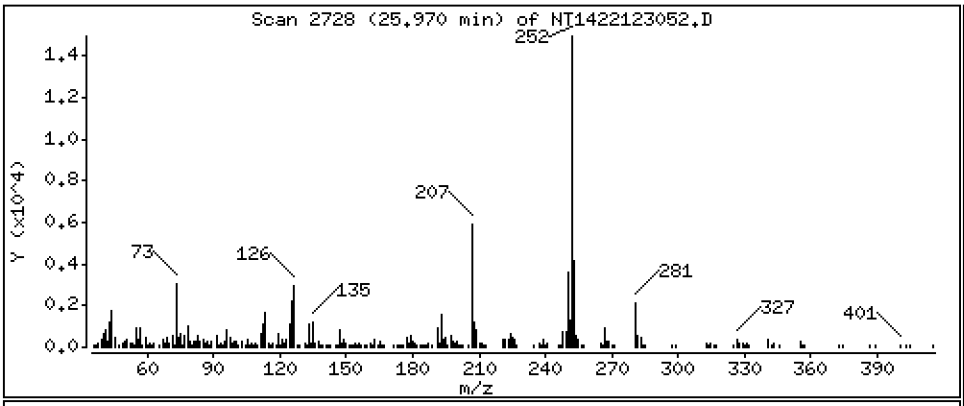
Operator: VTS

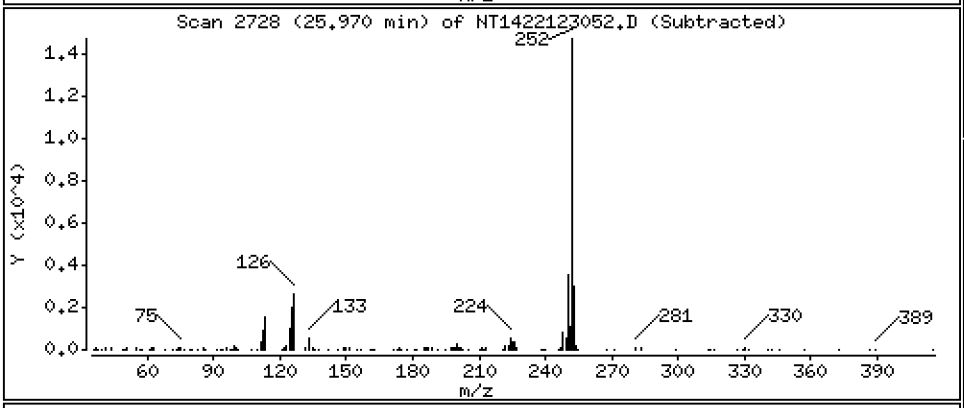
Column phase: ZB-5msi

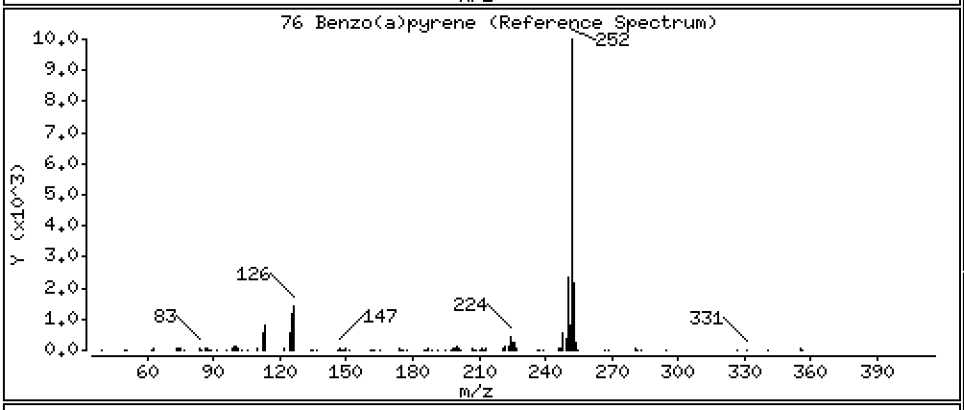
Column diameter: 0.25

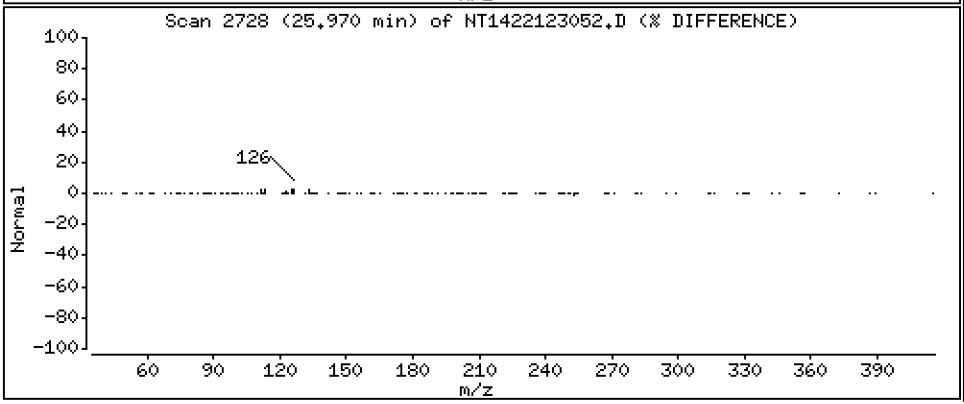
76 Benzo(a)pyrene

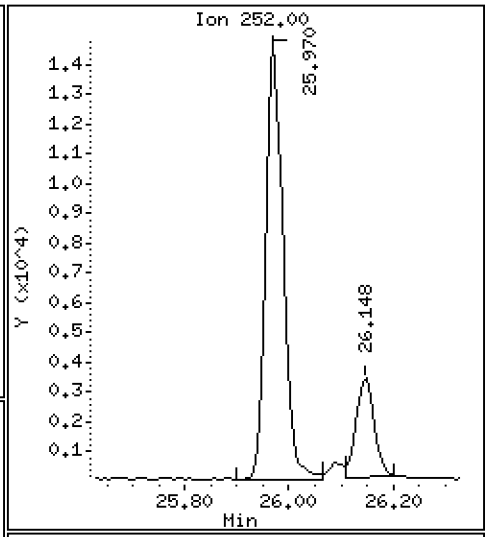
Concentration: 0.5015 ug/mL

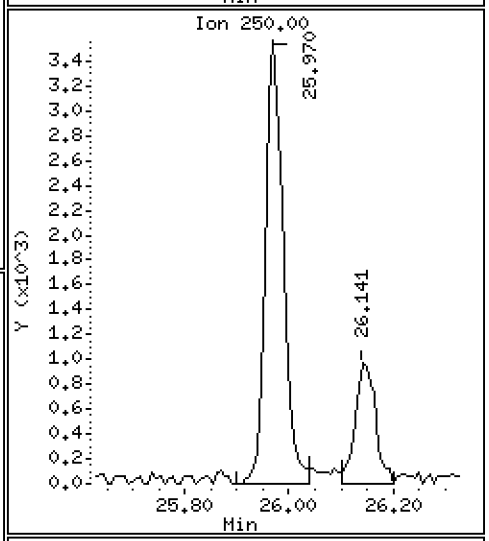


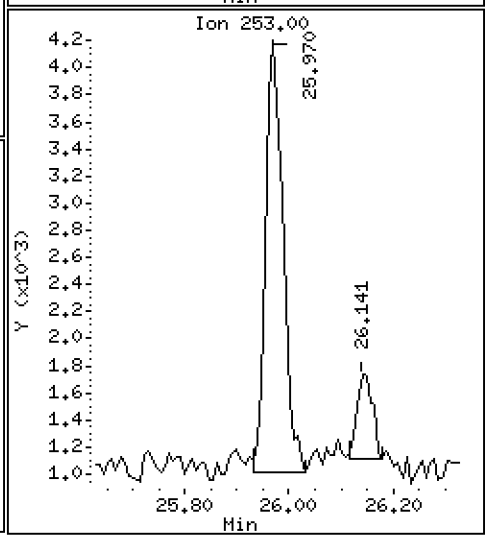












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

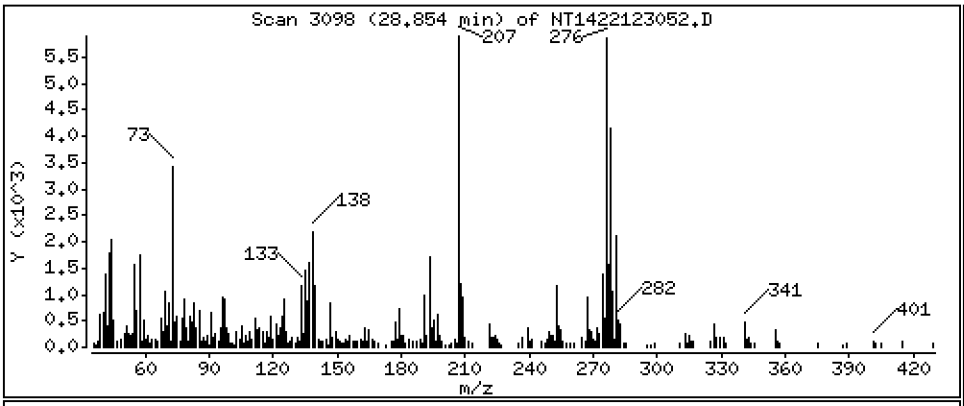
Operator: VTS

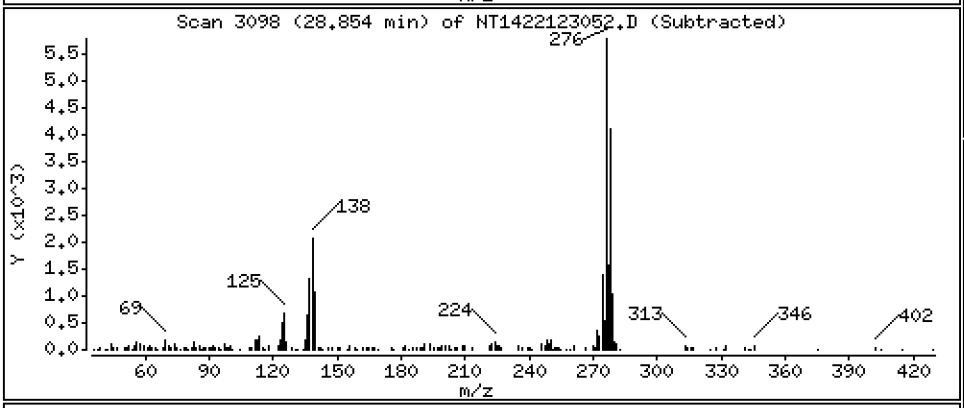
Column phase: ZB-5msi

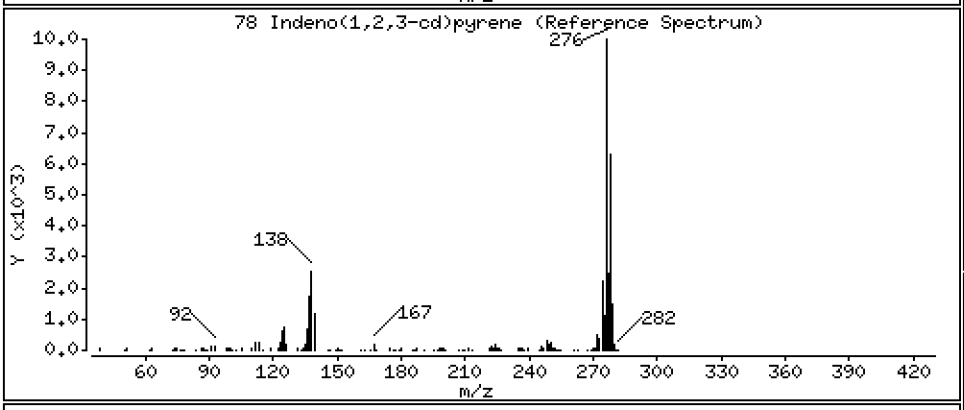
Column diameter: 0.25

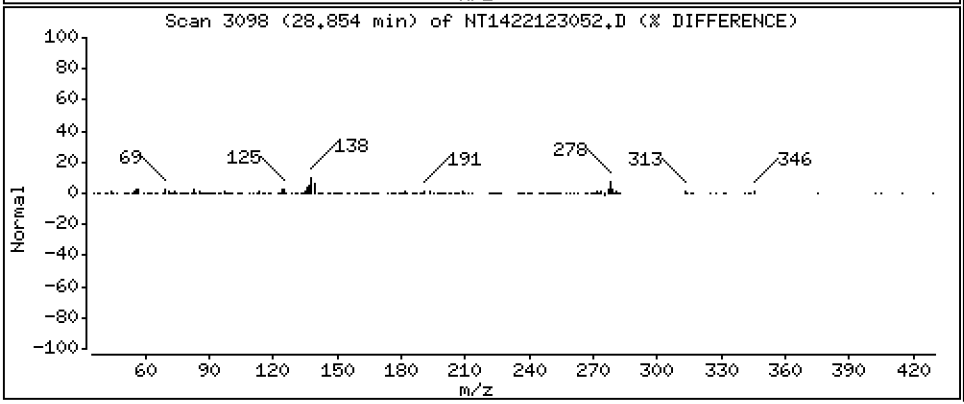
78 Indeno(1,2,3-cd)pyrene

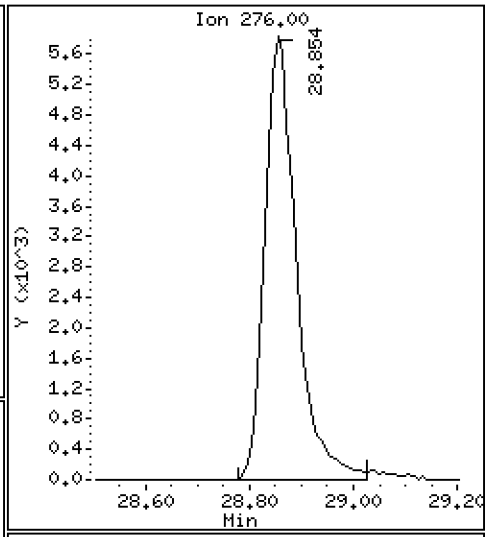
Concentration: 0.3235 ug/mL

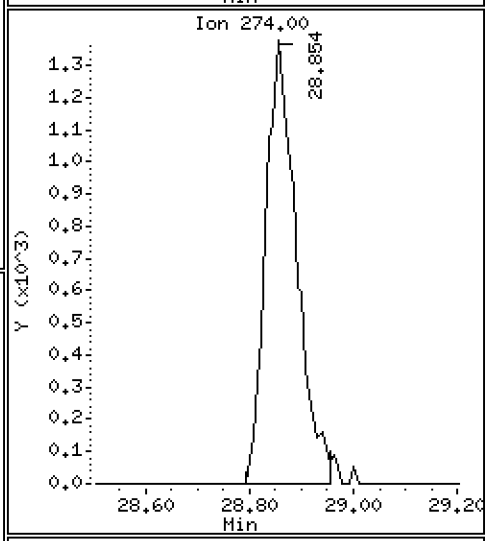


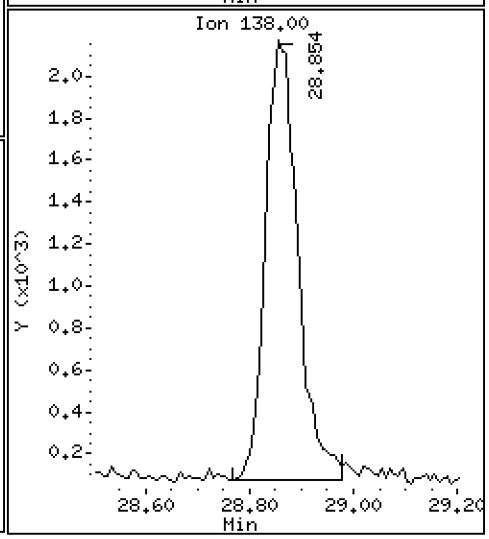












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

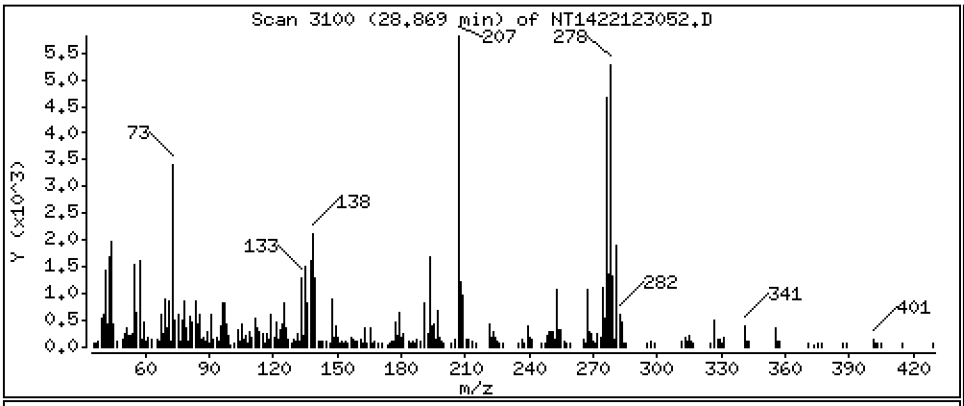
Operator: VTS

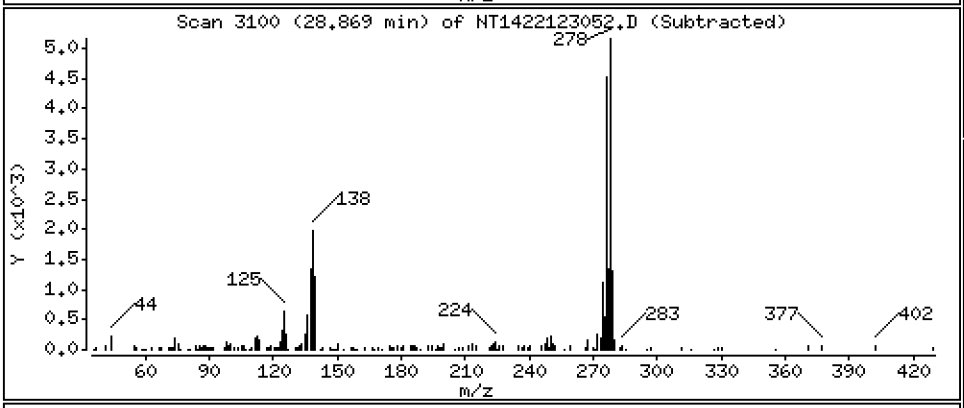
Column phase: ZB-5msi

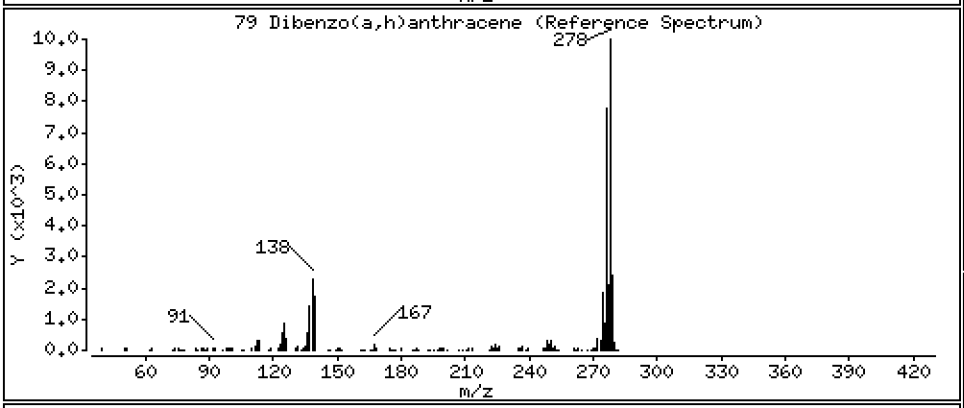
Column diameter: 0.25

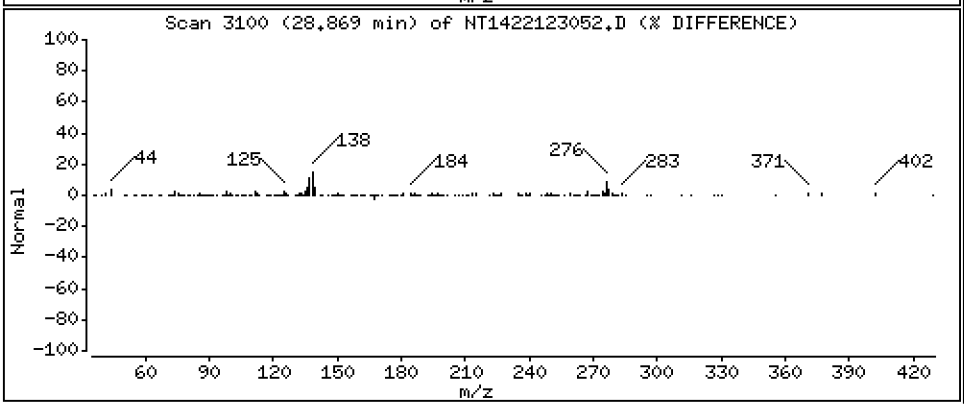
79 Dibenzo(a,h)anthracene

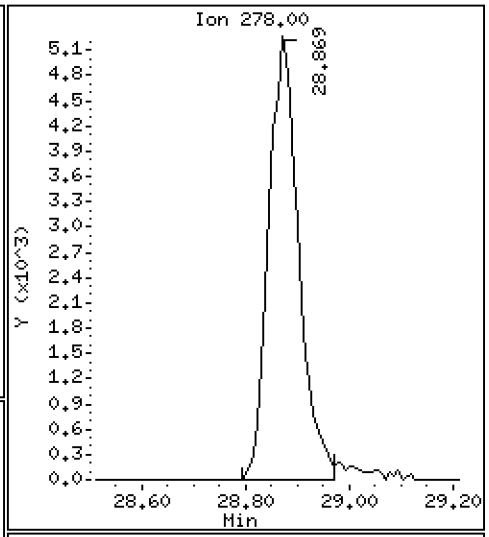
Concentration: 0.3297 ug/mL

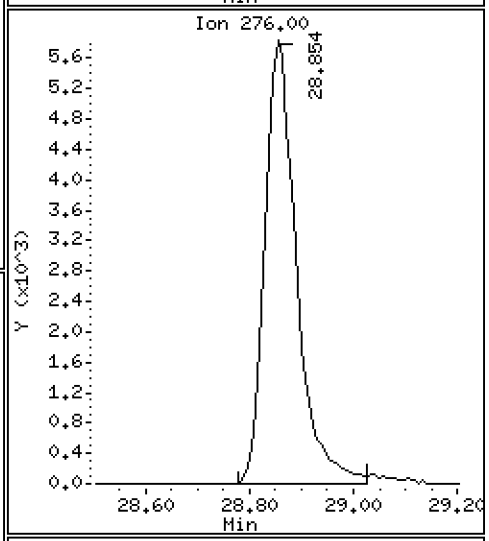


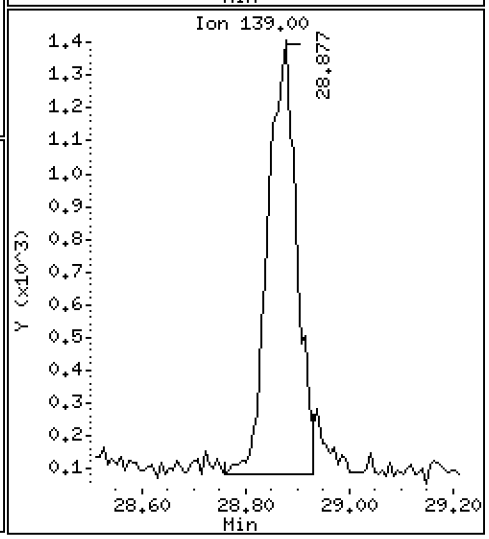












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

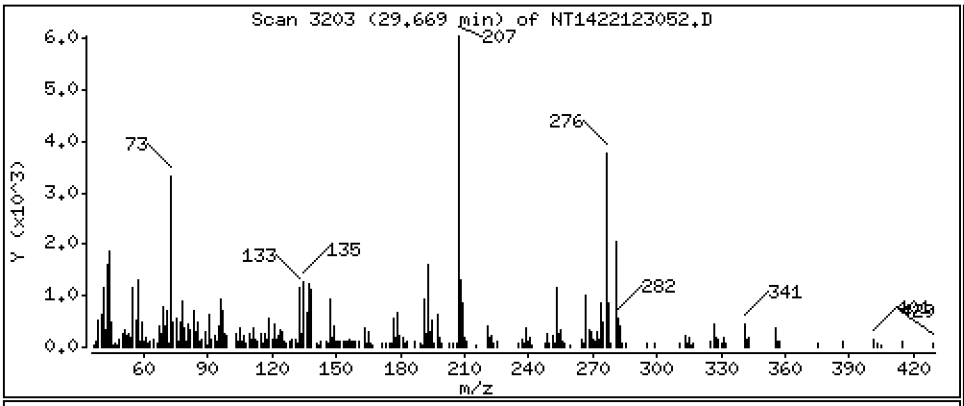
Operator: VTS

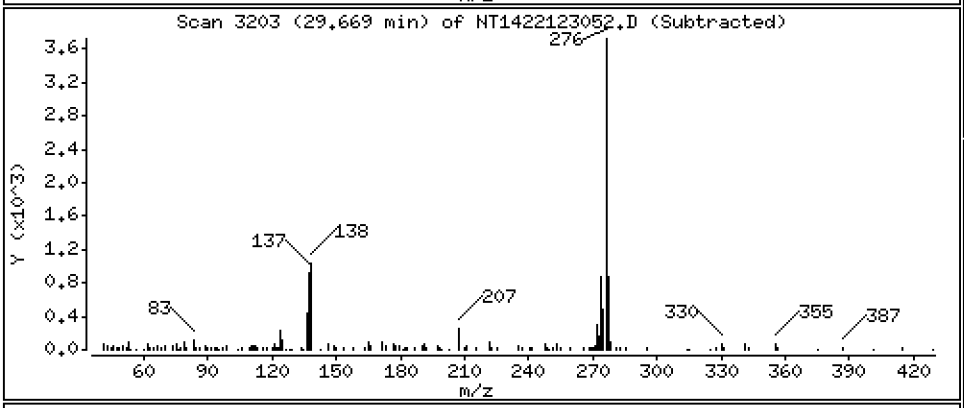
Column phase: ZB-5msi

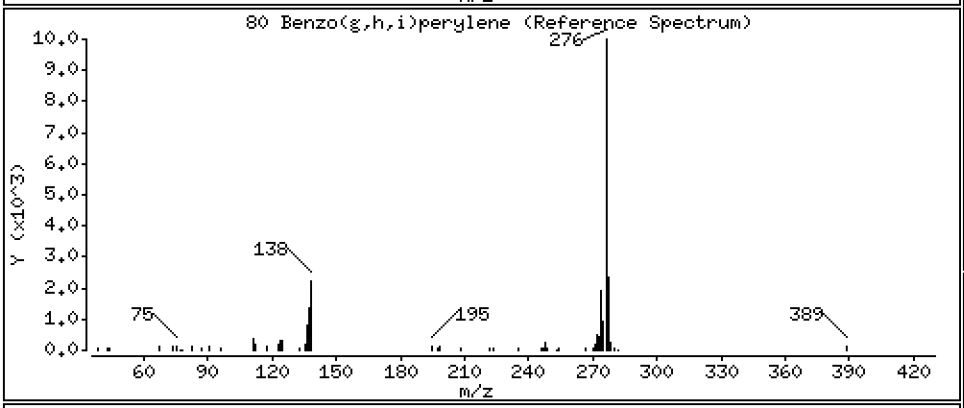
Column diameter: 0.25

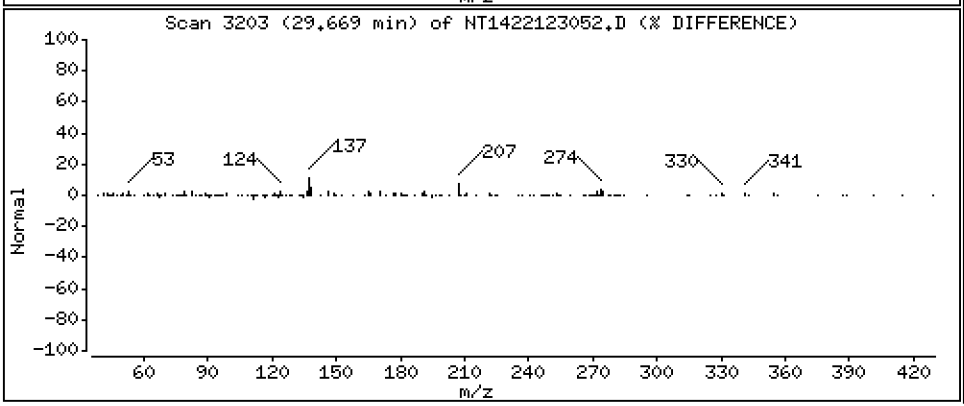
80 Benzo(g,h,i)perylene

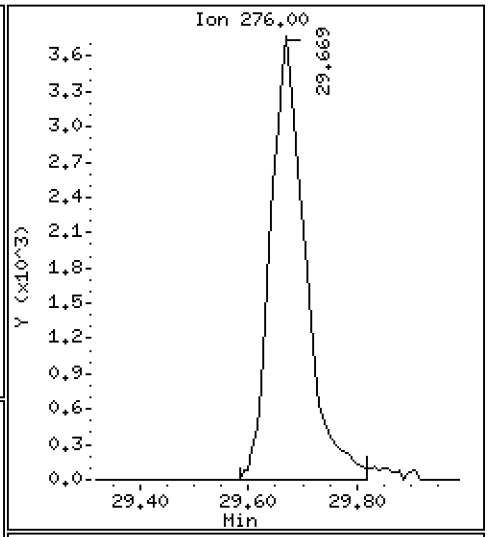
Concentration: 0.2675 ug/mL

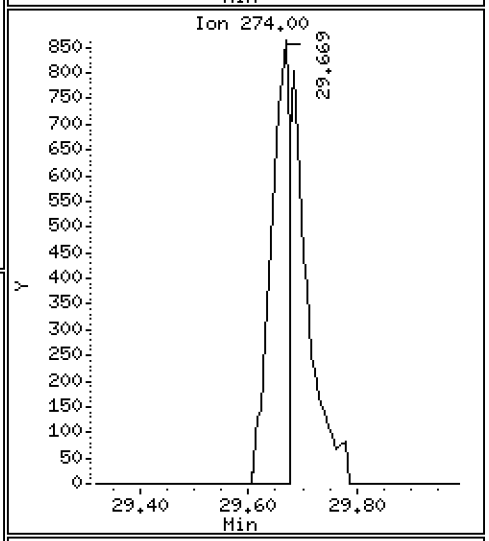


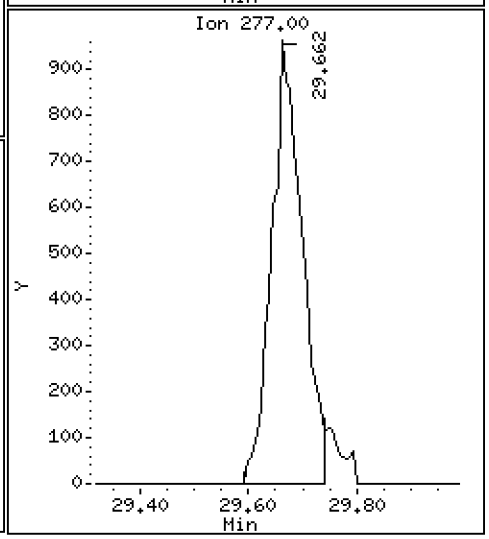












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

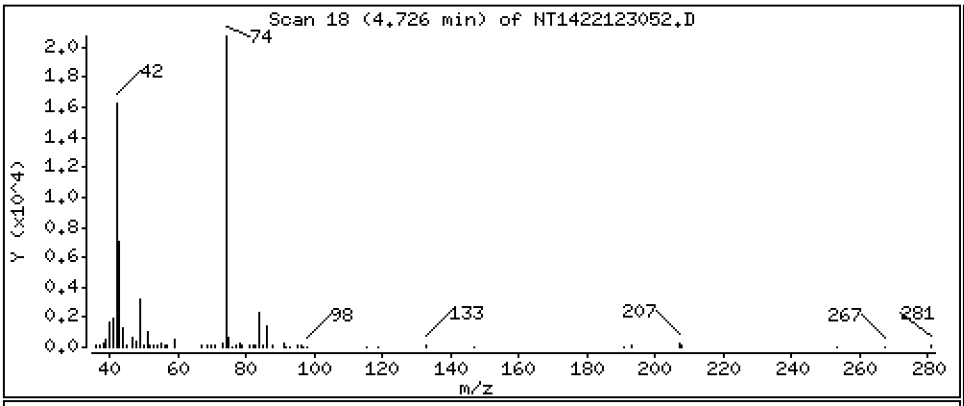
Operator: VTS

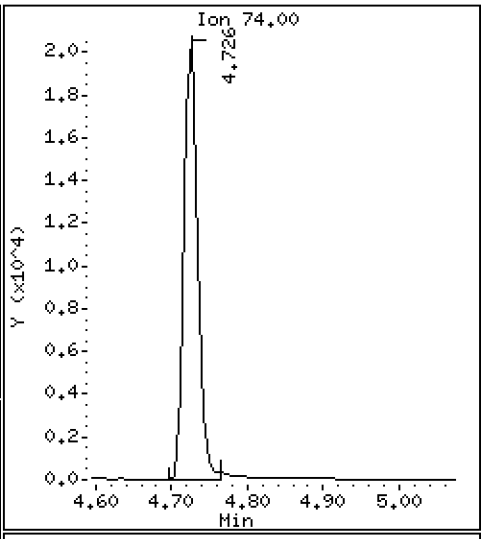
Column phase: ZB-5msi

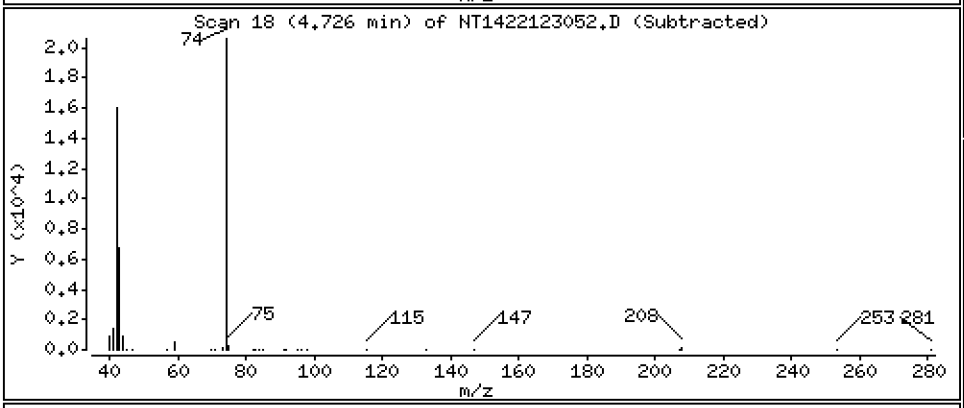
Column diameter: 0.25

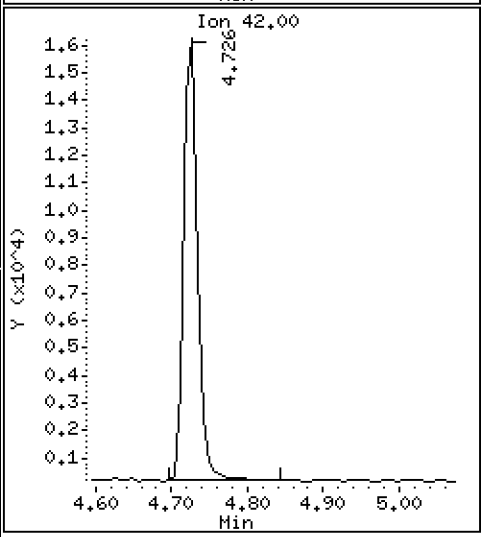
90 N-Nitrosodimethylamine

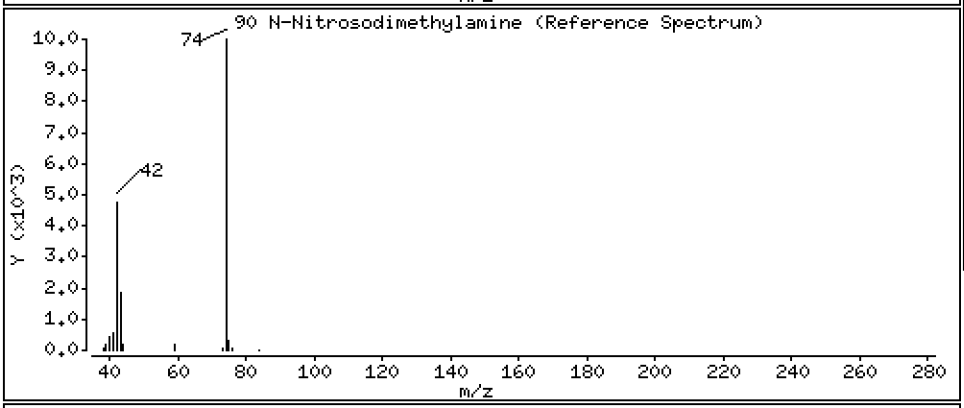
Concentration: 1.002 ug/mL

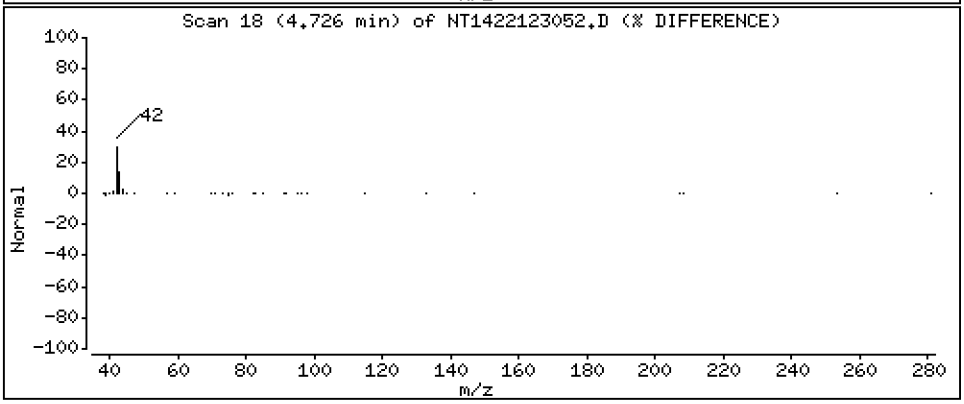












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

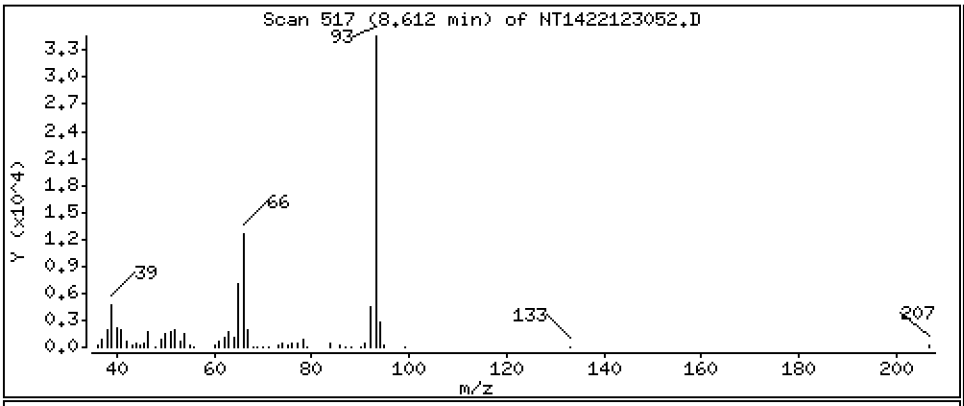
Operator: VTS

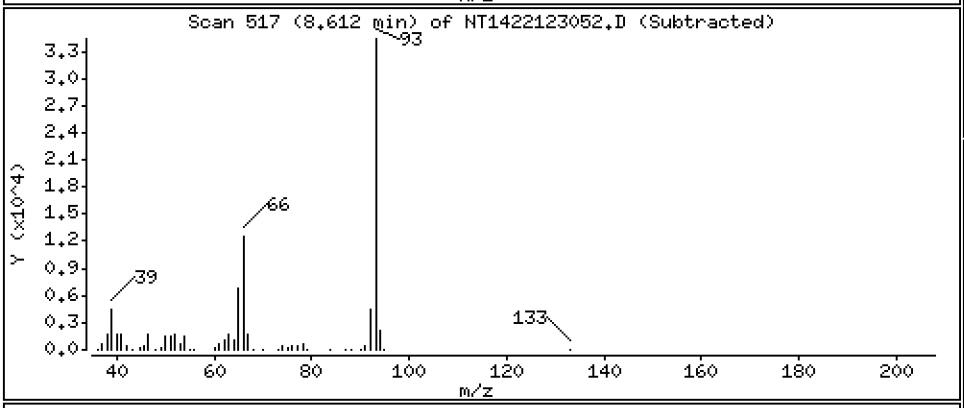
Column phase: ZB-5msi

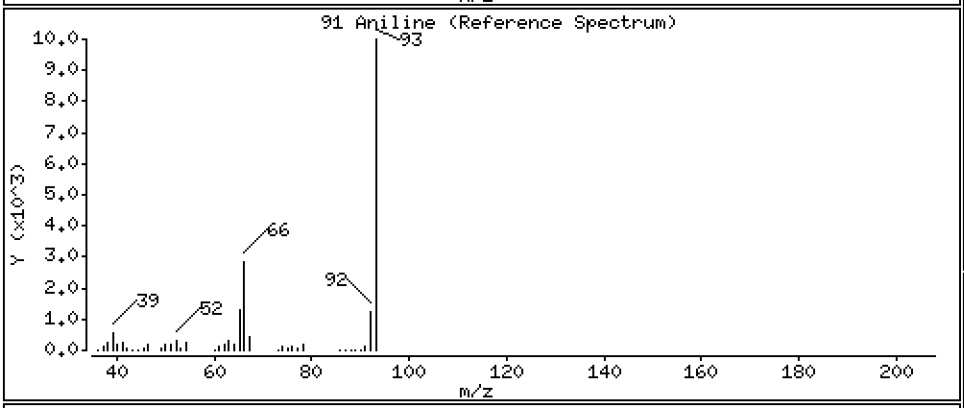
Column diameter: 0.25

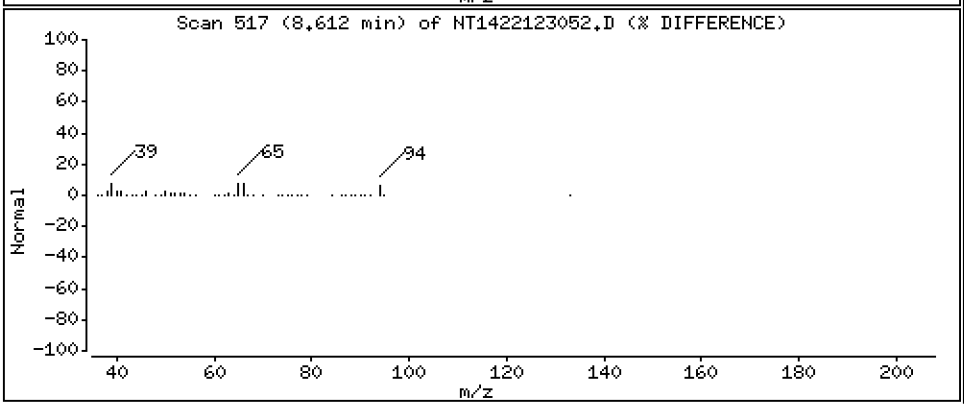
91 Aniline

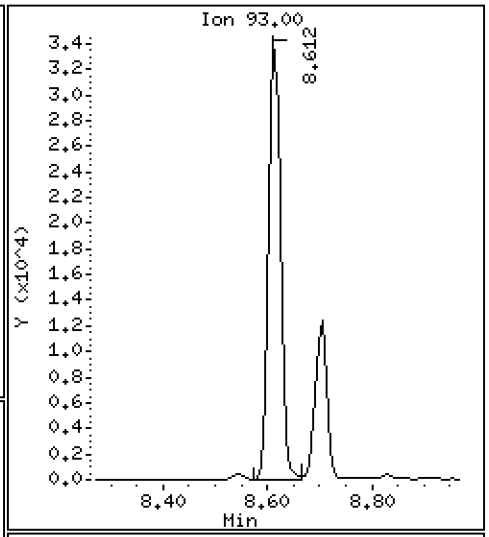
Concentration: 0.9702 ug/mL

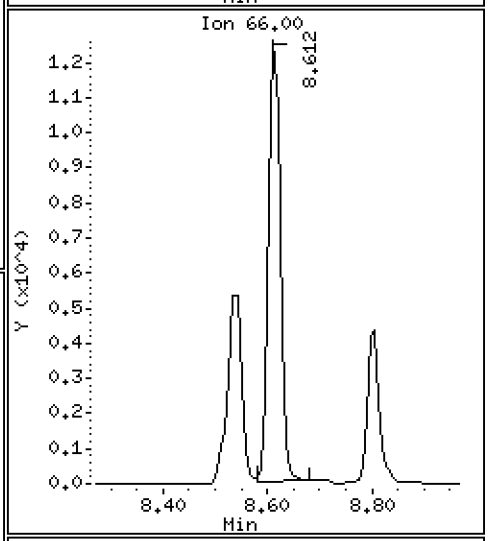


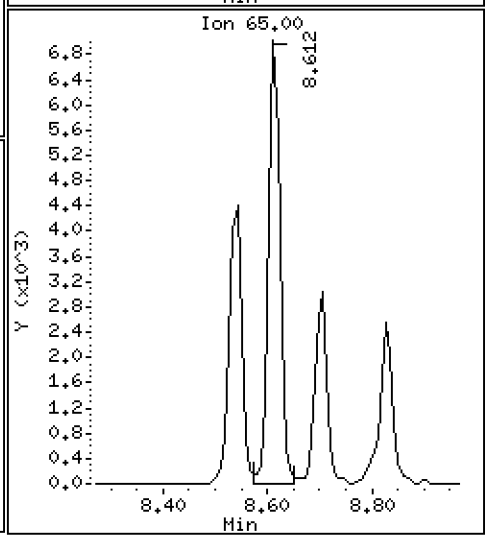












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

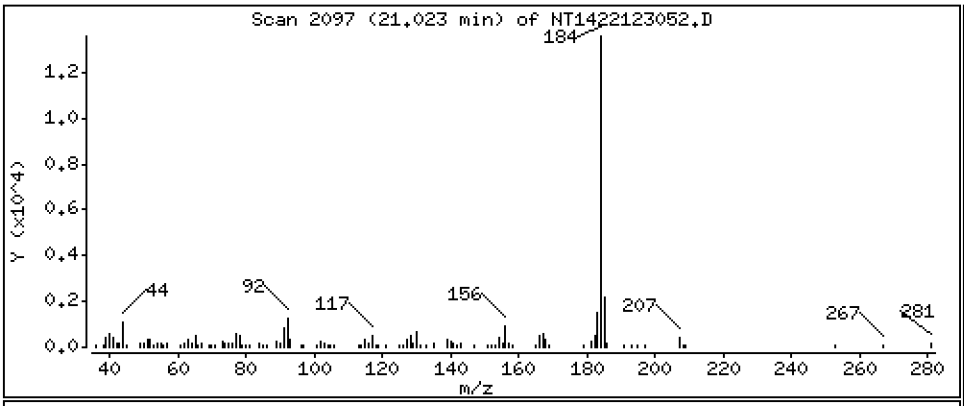
Operator: VTS

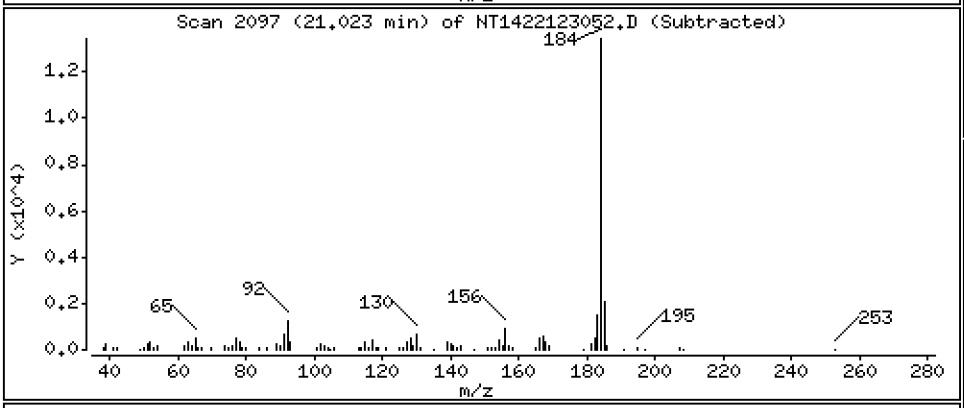
Column phase: ZB-5msi

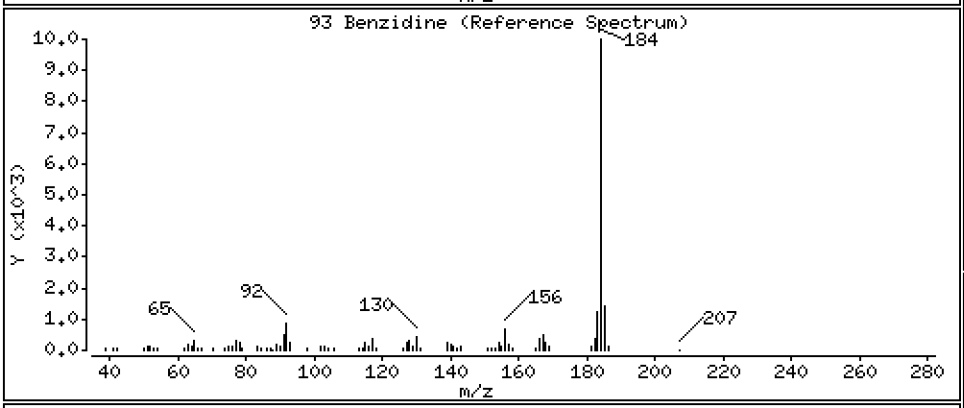
Column diameter: 0.25

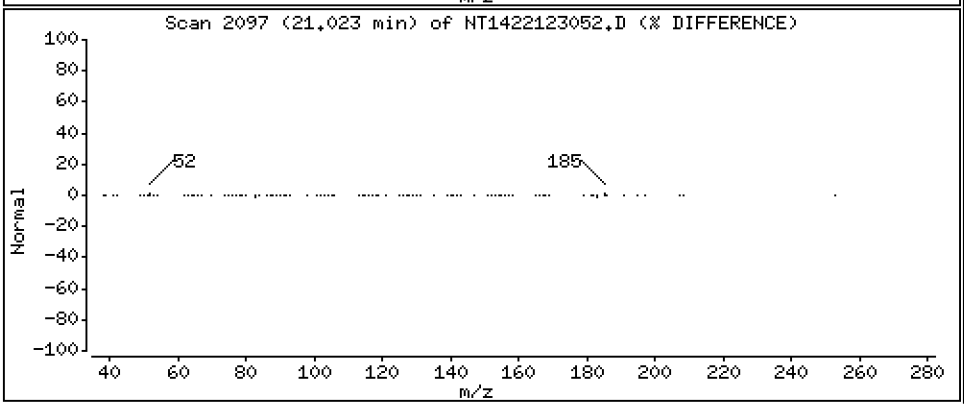
93 Benzidine

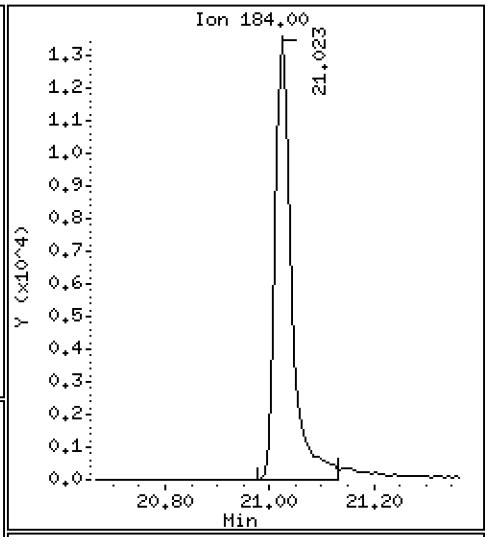
Concentration: 0.8039 ug/mL

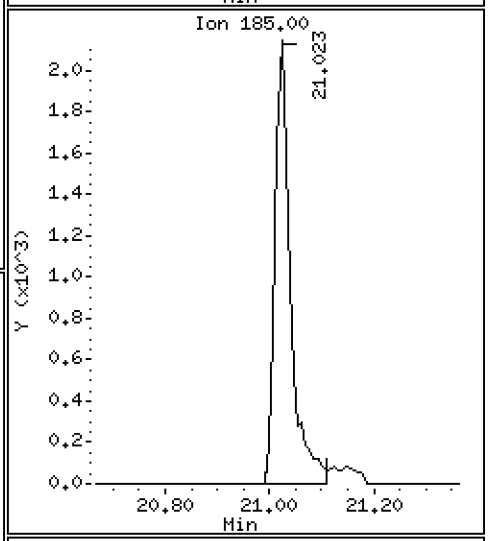


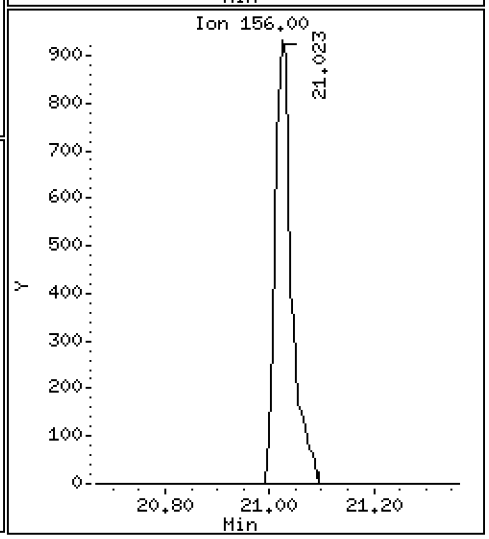












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

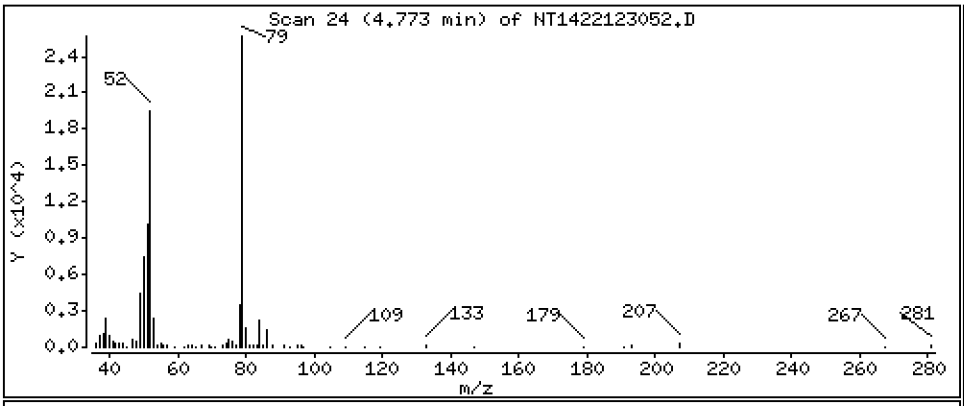
Operator: VTS

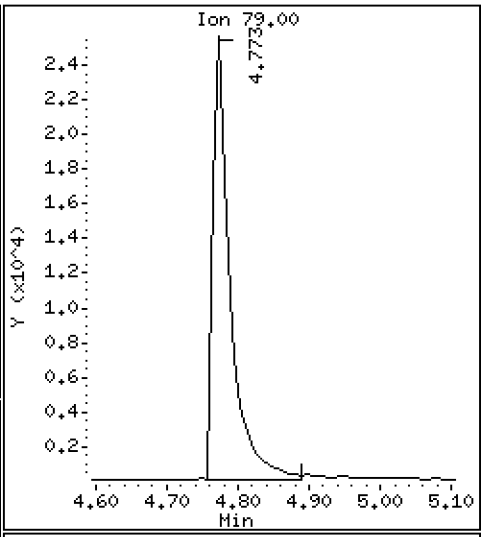
Column phase: ZB-5msi

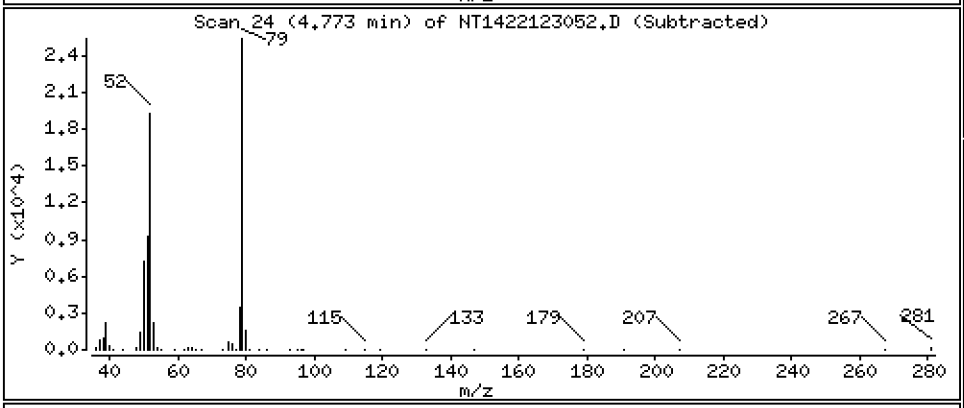
Column diameter: 0.25

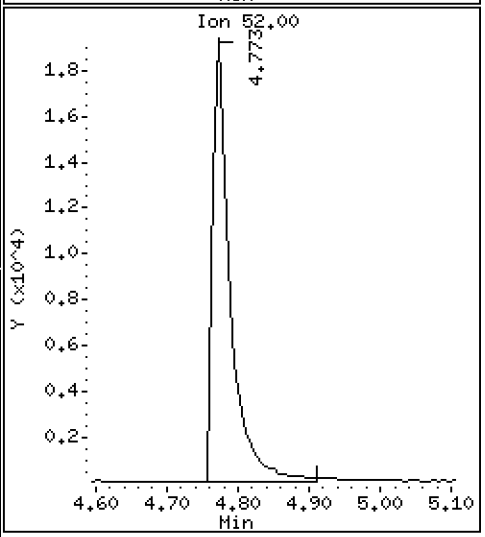
103 Pyridine

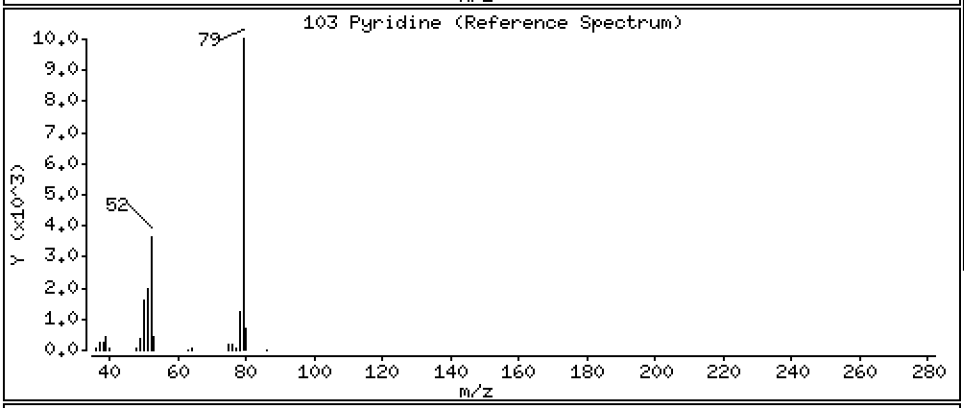
Concentration: 0.5100 ug/mL

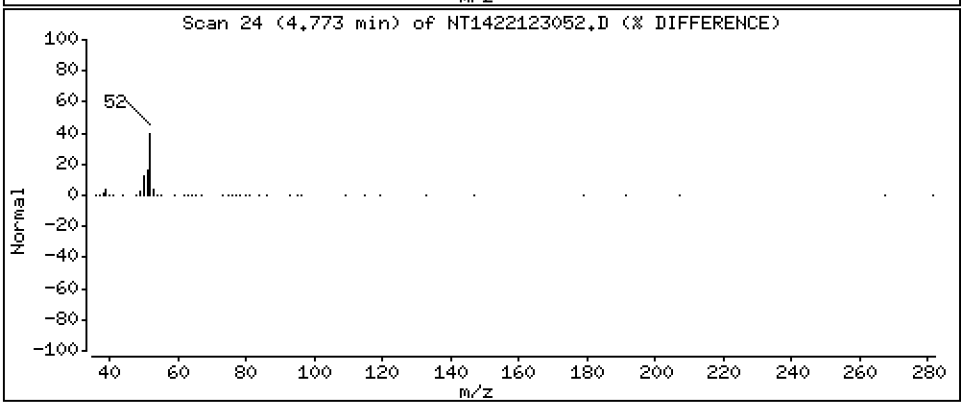












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

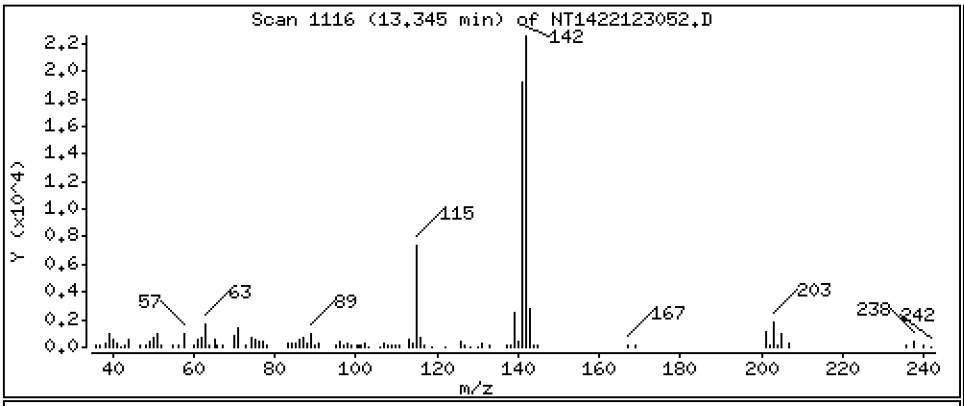
Operator: VTS

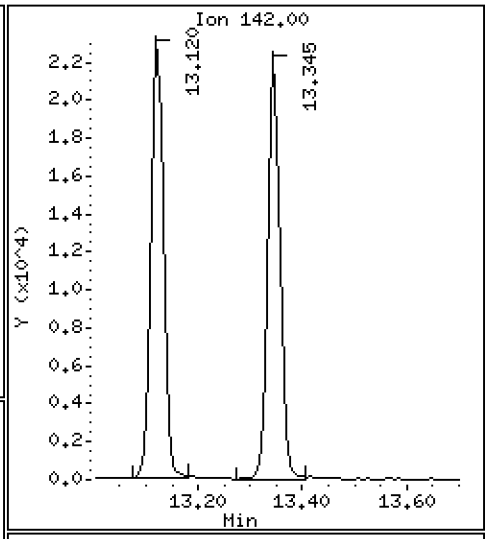
Column phase: ZB-5msi

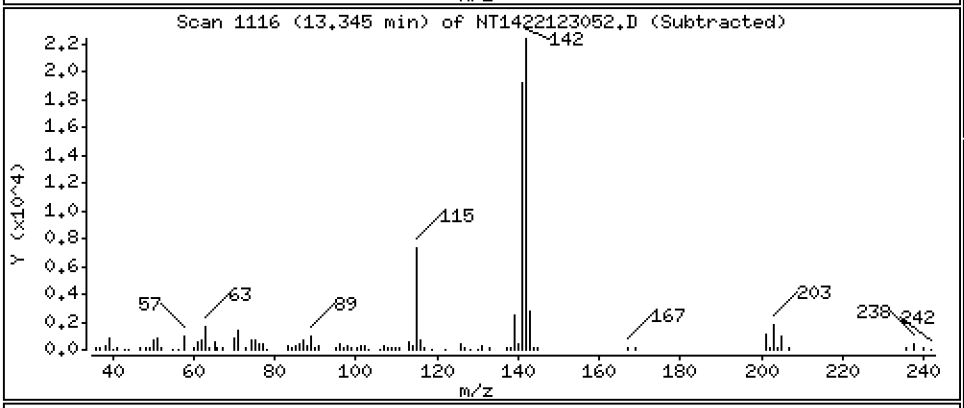
Column diameter: 0.25

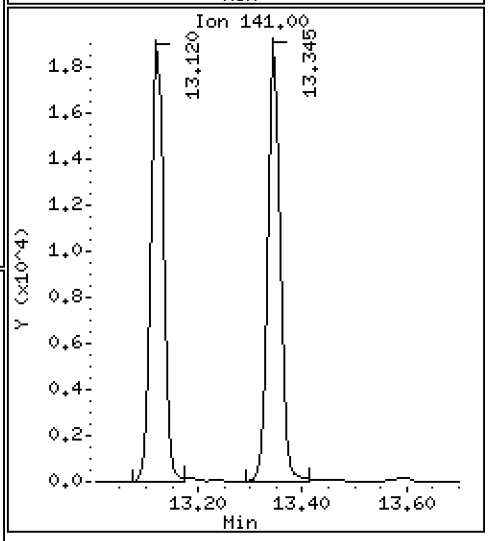
105 1-methylnaphthalene

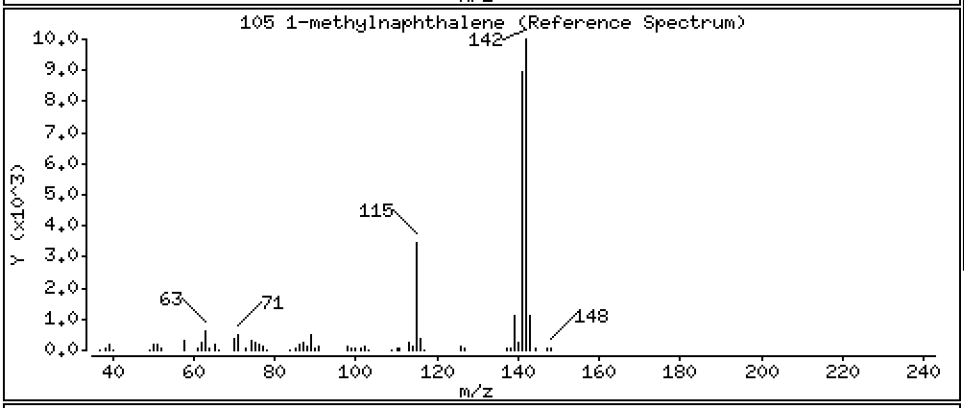
Concentration: 0.4765 ug/mL

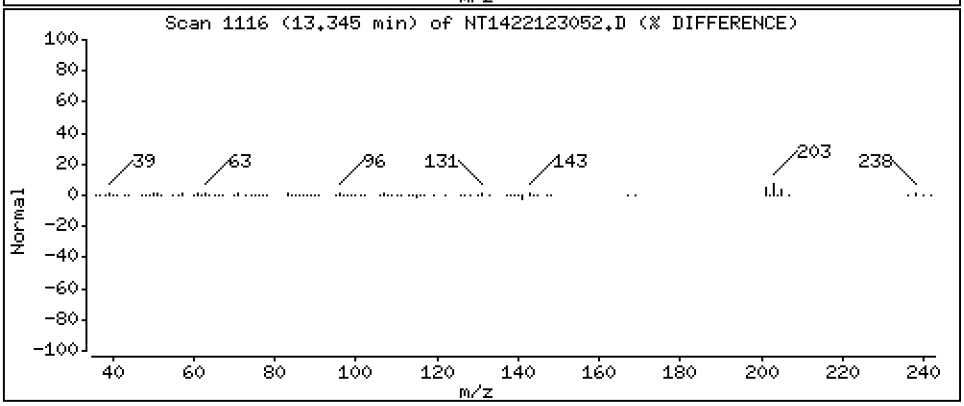












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

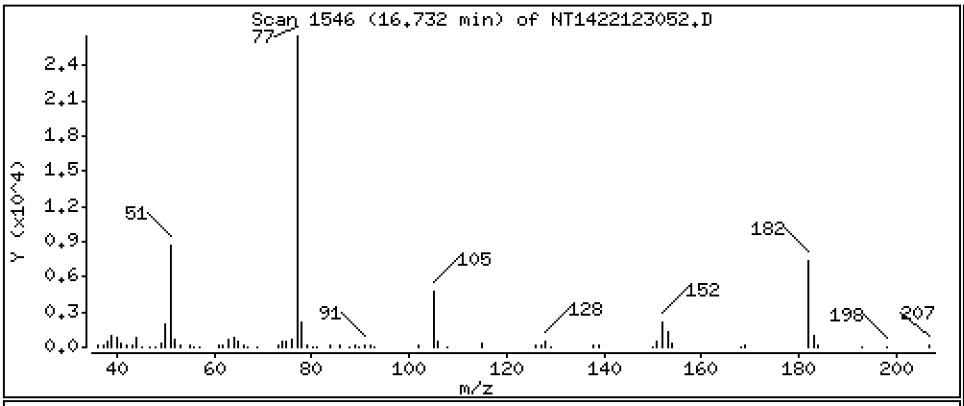
Operator: VTS

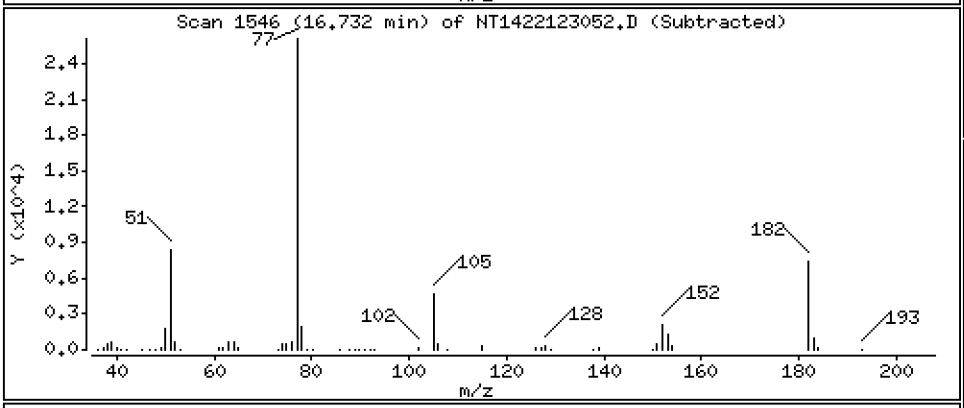
Column phase: ZB-5msi

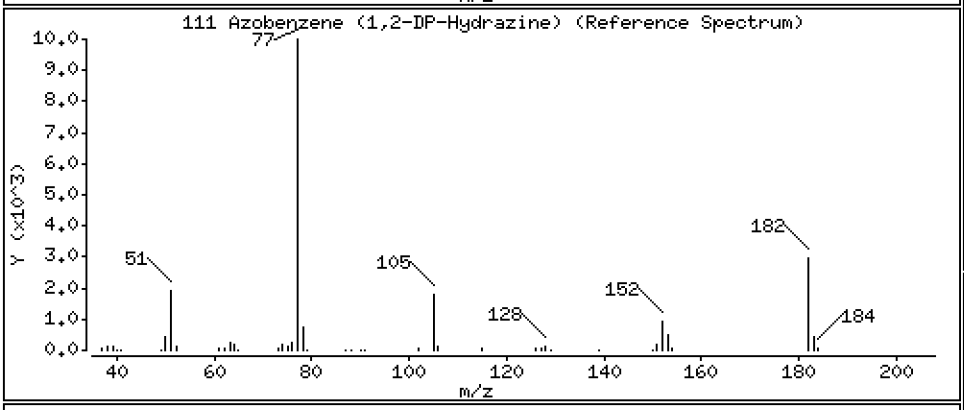
Column diameter: 0.25

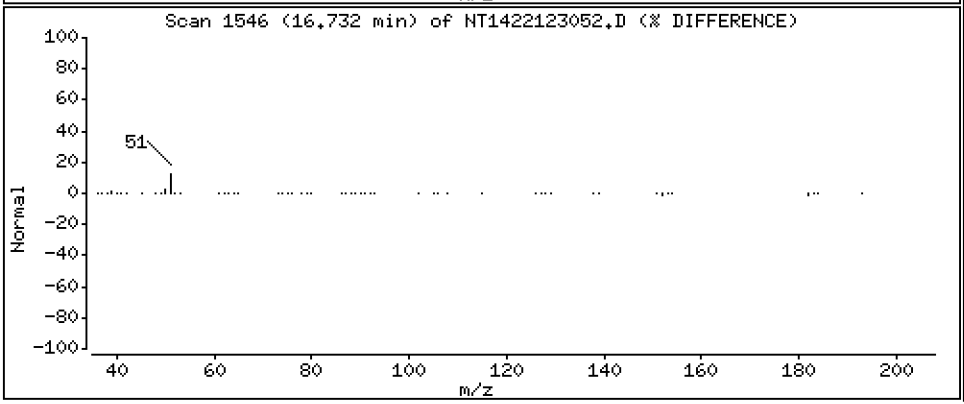
111 Azobenzene (1,2-DP-Hydrazine)

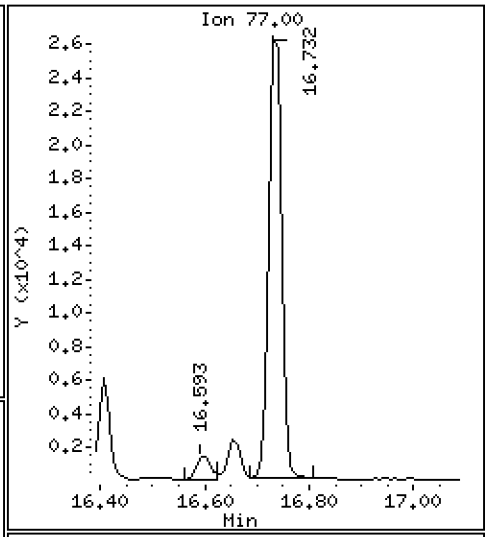
Concentration: 0.5124 ug/mL

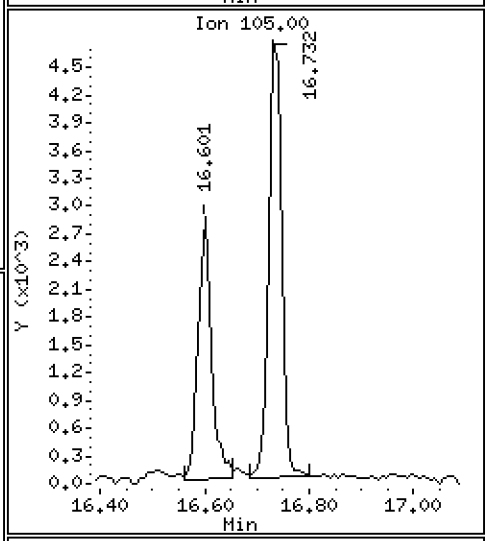


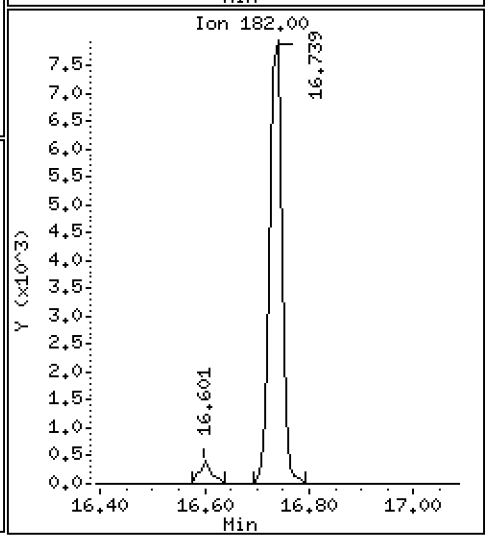












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

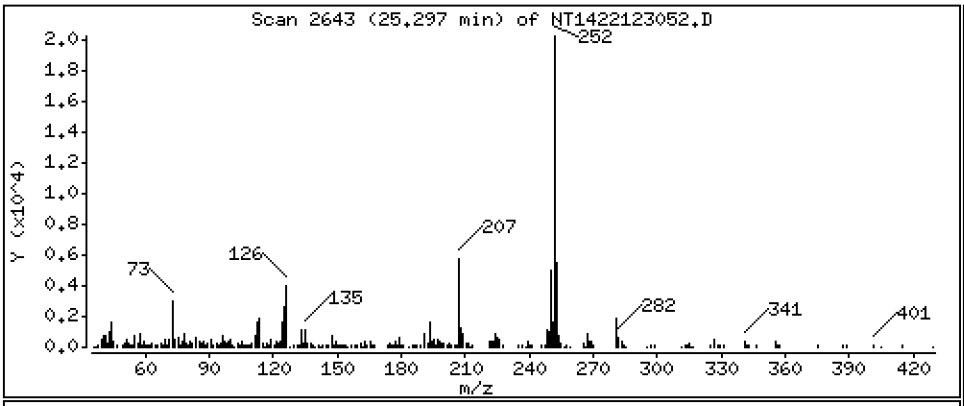
Operator: VTS

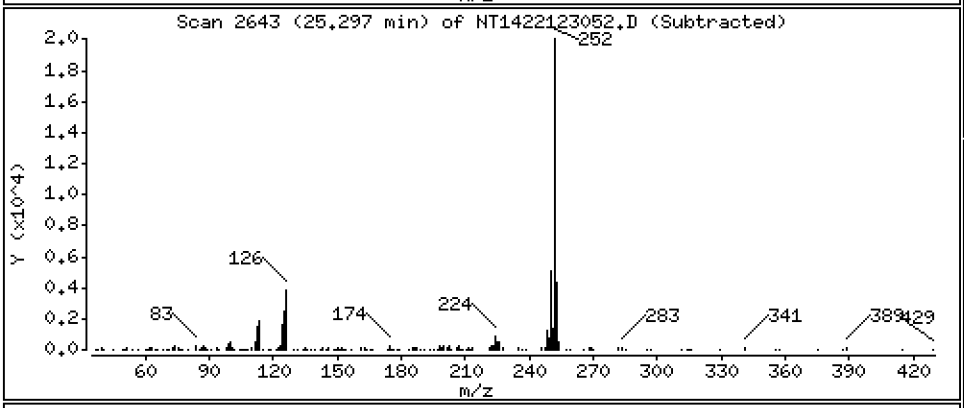
Column phase: ZB-5msi

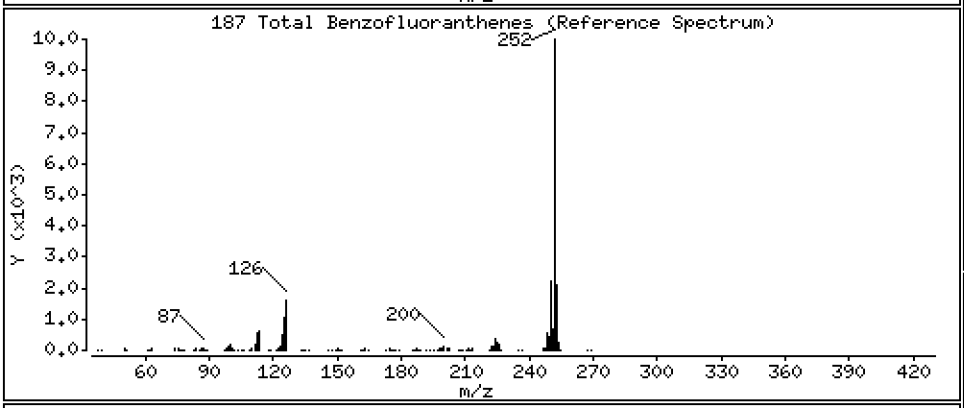
Column diameter: 0.25

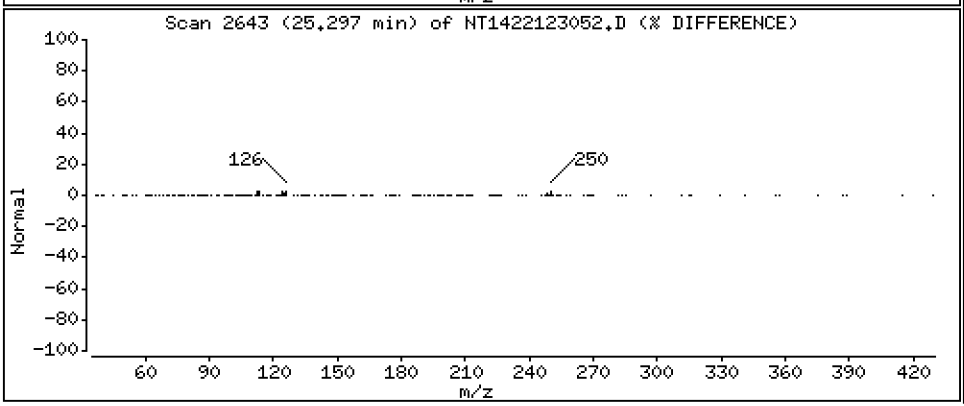
187 Total Benzofluoranthenes

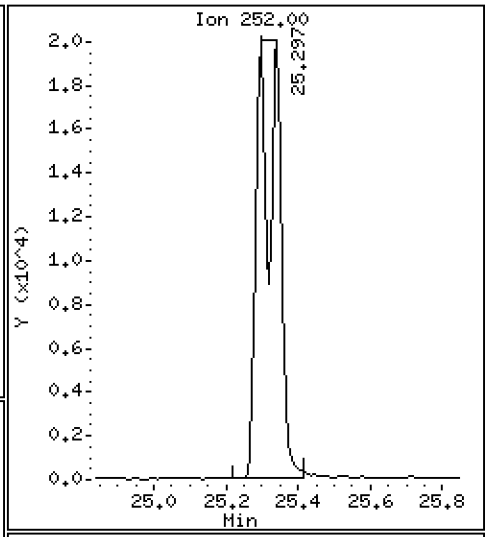
Concentration: 1.022 ug/mL

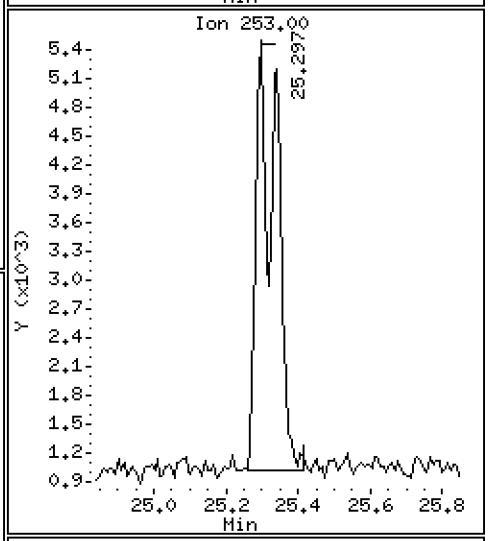


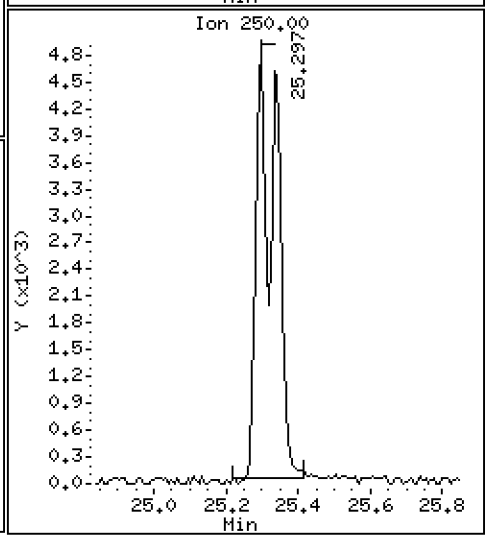












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

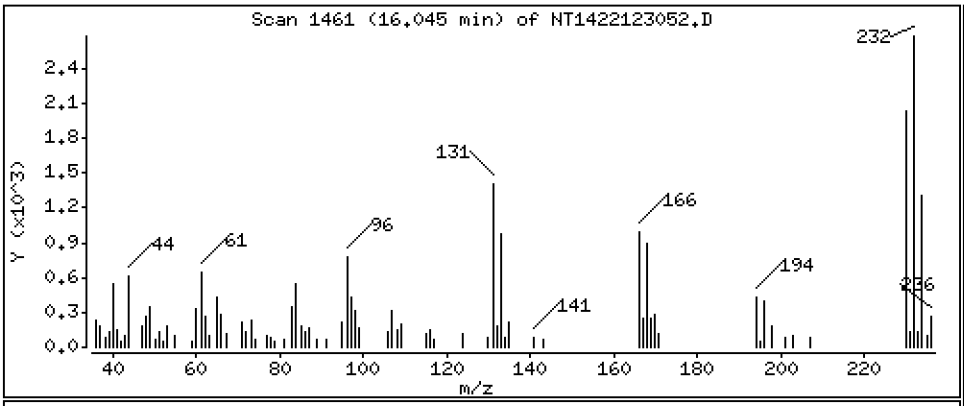
Operator: VTS

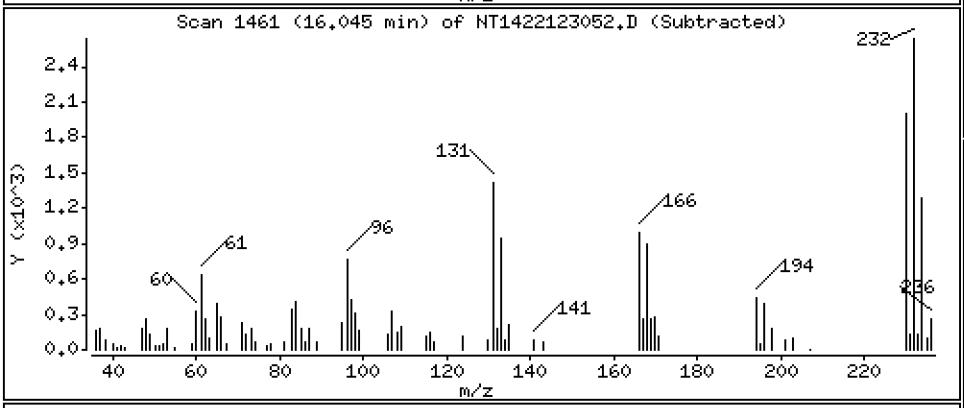
Column phase: ZB-5msi

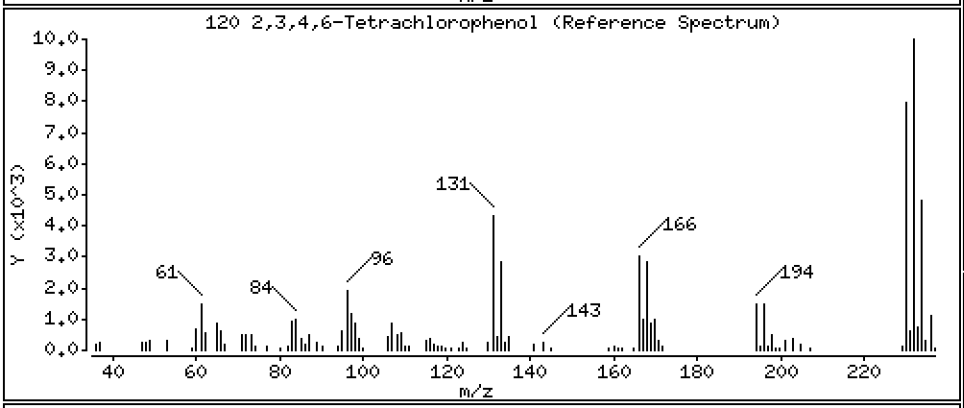
Column diameter: 0.25

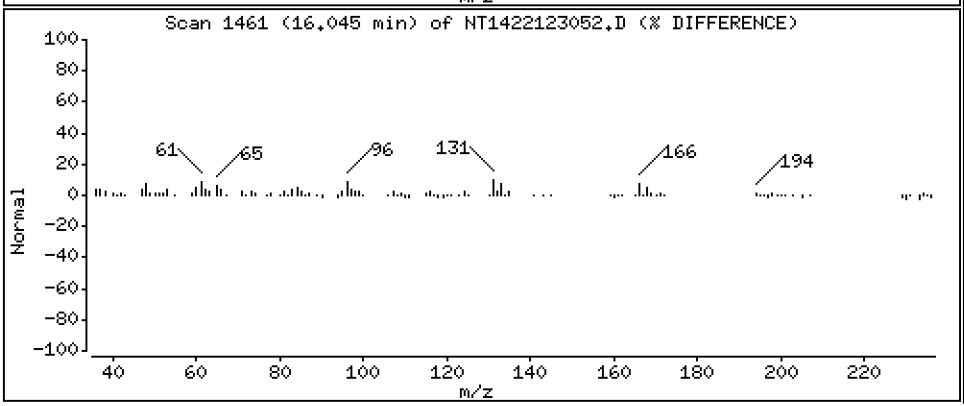
120 2,3,4,6-Tetrachlorophenol

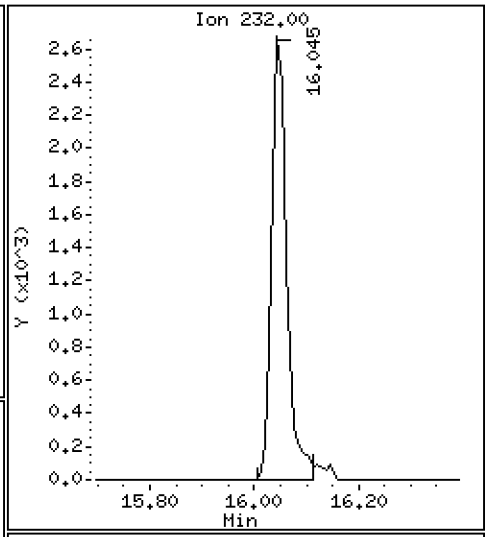
Concentration: 0.3296 ug/mL

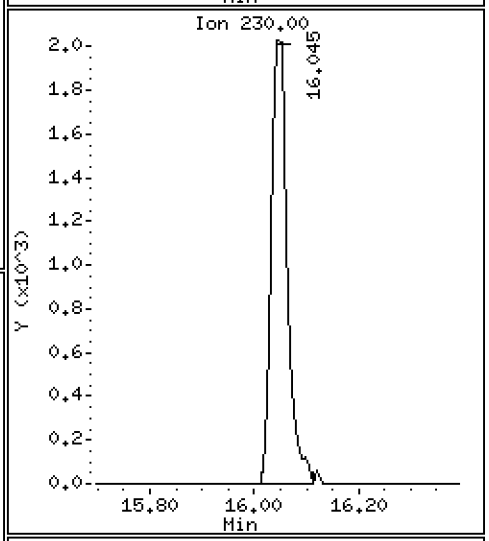


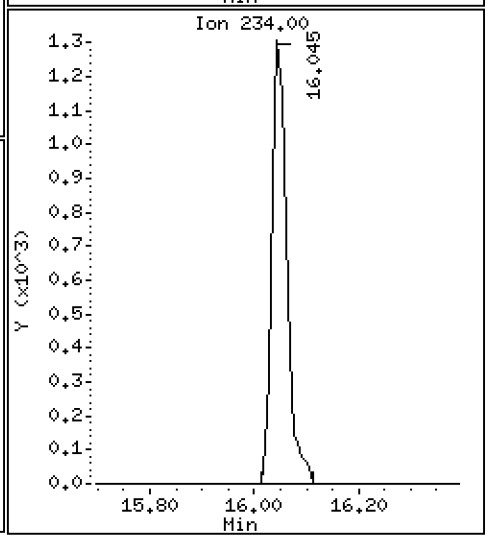












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D
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Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0356-LCV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.927	(0.755)	27373	0.71127	0.7113
$	2 Phenol-d5	99	8.519	8.519	(0.929)	31285	0.65780	0.6578
	3 Phenol	94	8.542	8.542	(0.932)	26016	0.48140	0.4814
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	27396	0.68588	0.6859
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	18062	0.48518	0.4852
	6 2-Chlorophenol	128	8.828	8.835	(0.963)	22183	0.50569	0.5057
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	23016	0.49479	0.4948
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	120125	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	21701	0.49244	0.4924
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	12849	0.47066	0.4707
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	20928	0.48424	0.4842
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	9113	0.37879	0.3788
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	5781	0.46137	0.4614(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	18978	0.48328	0.4833
	17 Hexachloroethane	117	10.162	10.162	(1.108)	6042	0.37278	0.3728
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	11134	0.46544	0.4654
	15 4-Methylphenol	108	9.936	9.937	(1.084)	19666	0.47473	0.4747
$	18 Nitrobenzene-d5	82	10.262	10.270	(0.879)	16741	0.45978	0.4598
	19 Nitrobenzene	77	10.301	10.301	(0.882)	16782	0.46409	0.4641
	20 Isophorone	82	10.751	10.759	(0.921)	19898	0.43175	0.4317
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	10095	0.45609	0.4561
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	37295	0.98819	0.9882
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	17353	0.48401	0.4840
	24 Benzoic acid	105	11.093	11.201	(0.950)	7598	0.33063	0.3306
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	31564	0.99218	0.9922
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	16567	0.48162	0.4816
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	431181	4.00000	
	28 Naphthalene	128	11.712	11.720	(1.003)	51400	0.48439	0.4844
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	38062	0.86979	0.8698
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	8038	0.47097	0.4710
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	28593	0.95242	0.9524
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	36399	0.46764	0.4676
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.888)	1798	0.10740	0.1074

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.898)	16457	0.89033	0.8903
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.903)	19186	0.89935	0.8994
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	35317	0.47432	0.4743
	37	2-Chloronaphthalene	162	14.118	14.126	(0.922)	30923	0.48818	0.4882
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	15325	0.92024	0.9202
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	29080	0.46562	0.4656
	40	Acenaphthylene	152	14.993	15.000	(0.979)	51393	0.53211	0.5321
	41	2,6-Dinitrotoluene	165	14.938	14.946	(0.976)	12001	0.85147	0.8515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	221457	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	13712	0.80043	0.8004
	44	Acenaphthene	153	15.379	15.379	(1.005)	29746	0.49655	0.4966
	45	2,4-Dinitrophenol	184	15.449	15.441	(1.009)	1736	0.14499	0.1450(M)
	46	Dibenzofuran	168	15.704	15.712	(1.026)	44263	0.49272	0.4927
	47	4-Nitrophenol	109	15.596	15.549	(1.019)	5313	0.64751	0.6475(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	15060	0.77878	0.7788
	50	Diethylphthalate	149	16.268	16.268	(1.063)	45617	0.53738	0.5374
	49	Fluorene	166	16.423	16.423	(1.073)	46218	0.48362	0.4836
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	21450	0.45846	0.4585
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	16356	0.79260	0.7926
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	11325	0.75665	0.7566
	54	N-Nitrosodiphenylamine	169	16.654	16.662	(0.907)	31251	0.51126	0.5113
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	5569	0.53587	0.5359
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	11348	0.49028	0.4903
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	12447	0.49003	0.4900
	58	Pentachlorophenol	266	18.098	18.098	(0.986)	2476	0.22496	0.2250(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	356219	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	45378	0.48858	0.4886
	61	Anthracene	178	18.500	18.508	(1.008)	41525	0.46834	0.4683
	62	Carbazole	167	18.833	18.833	(1.026)	39496	0.46078	0.4608
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	41551	0.42863	0.4286
	64	Fluoranthene	202	20.791	20.798	(0.888)	44087	0.46433	0.4643
	65	Pyrene	202	21.216	21.224	(0.906)	46707	0.46787	0.4679
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	32135	0.45398	0.4540
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	16717	0.44361	0.4436
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	43313	0.48487	0.4849
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	294883	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.330	(0.996)	40436	1.47869	1.479
	71	Chrysene	228	23.446	23.454	(1.002)	41334	0.48986	0.4899
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	22969	0.47045	0.4704
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	439623	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	51489	0.48792	0.4879
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	40786	0.50793	0.5079
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	42127	0.51546	0.5155
	76	Benzo(a)pyrene	252	25.970	25.978	(0.995)	33479	0.50154	0.5015
*	77	Perylene-d12	264	26.094	26.094	(1.000)	255506	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.853	28.854	(1.106)	24548	0.32350	0.3235
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	21258	0.32967	0.3297
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	17003	0.26748	0.2675
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	26563	1.00220	1.002
	91	Aniline	93	8.611	8.619	(0.939)	51051	0.97019	0.9702
	93	Benzidine	184	21.023	21.015	(0.898)	29087	0.80389	0.8039
	103	Pyridine	79	4.772	4.757	(0.521)	42950	0.50997	0.5100
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	35633	0.47646	0.4765
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.739	(1.093)	42141	0.51242	0.5124

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123052.D
Lab Smp Id: SKL0356-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 15:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

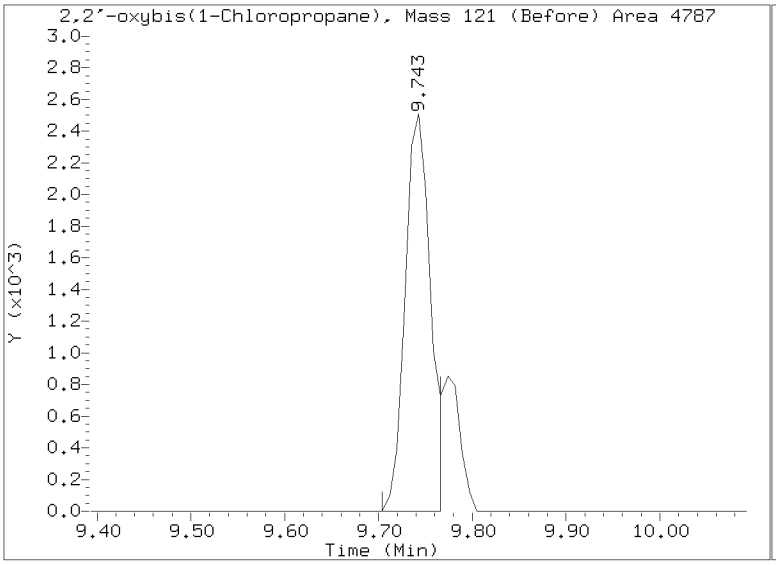
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

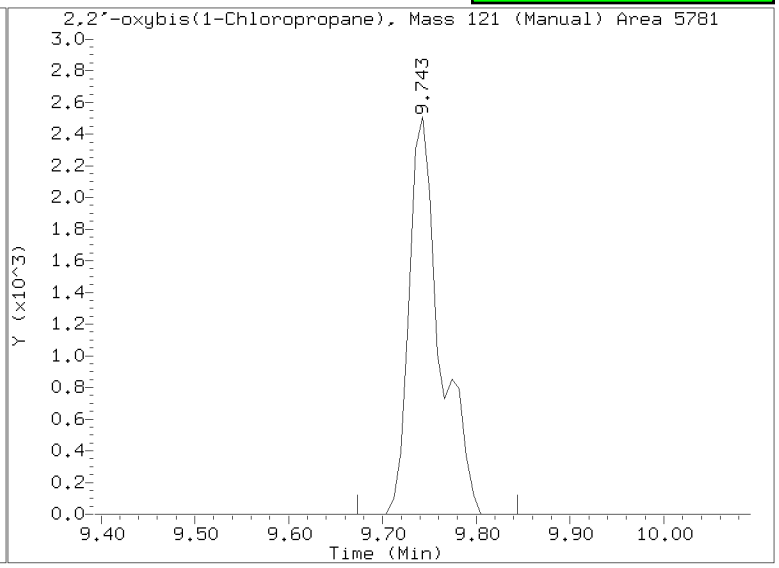
* Only compounds listed in the work order have been verified by the analyst *

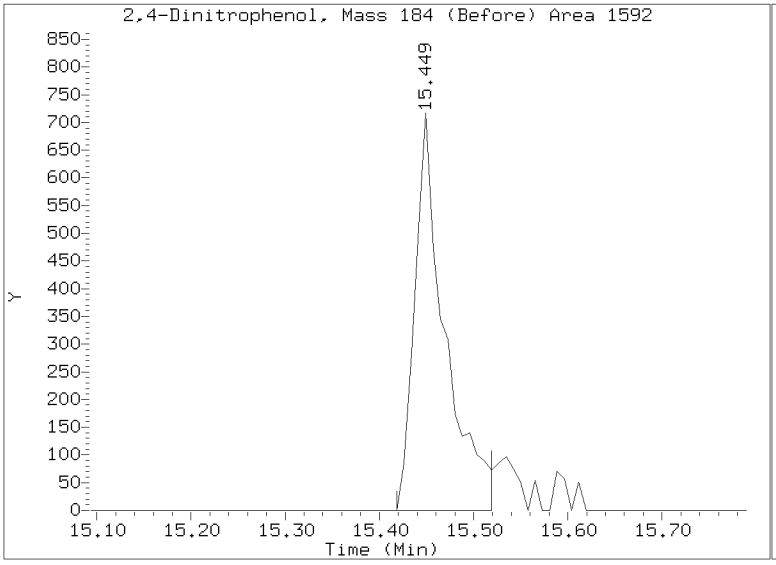
Quant Ion Manual Peak Adjustment Report

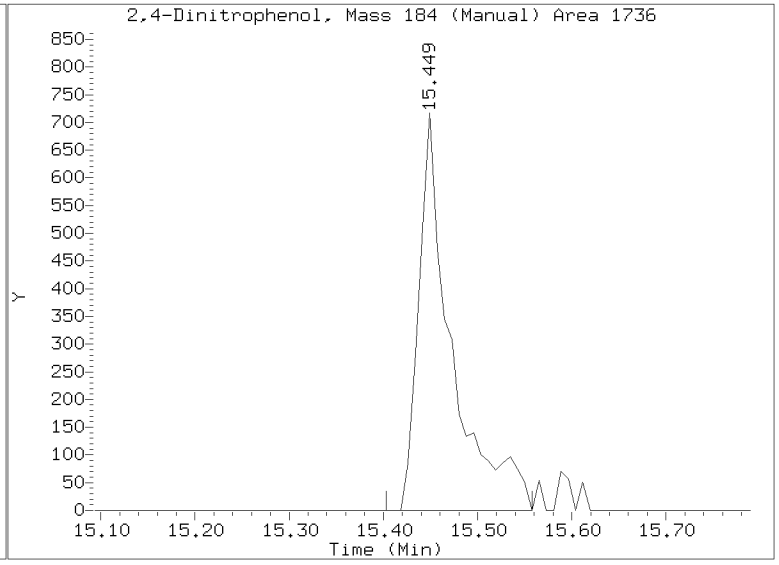
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

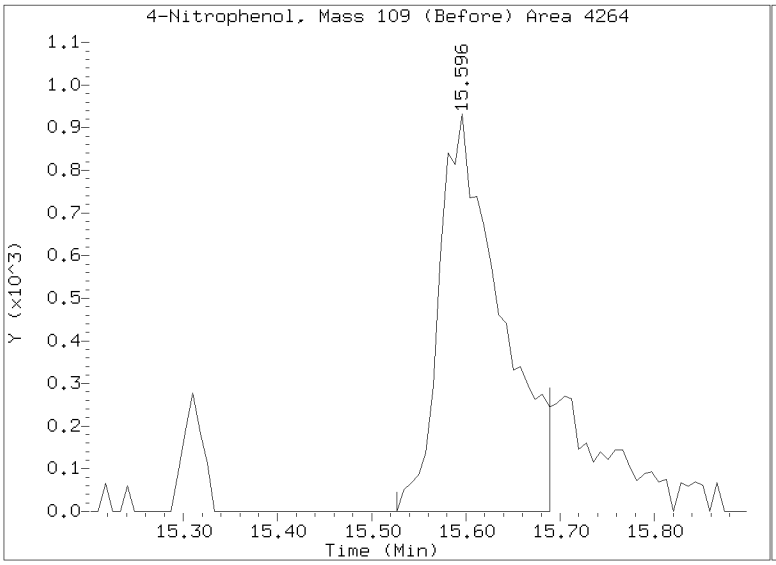
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

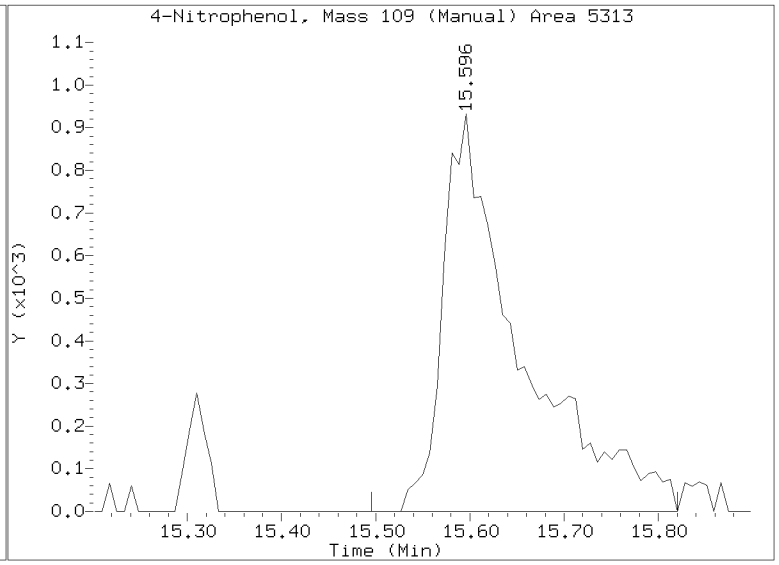








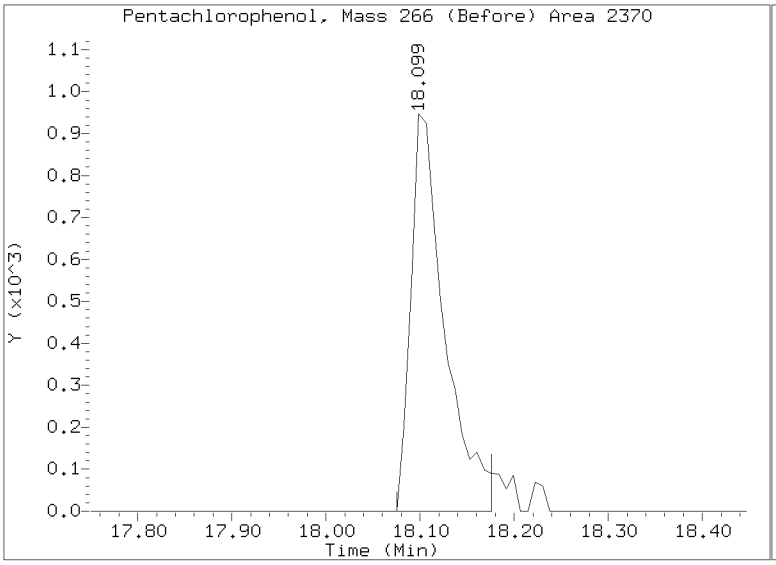


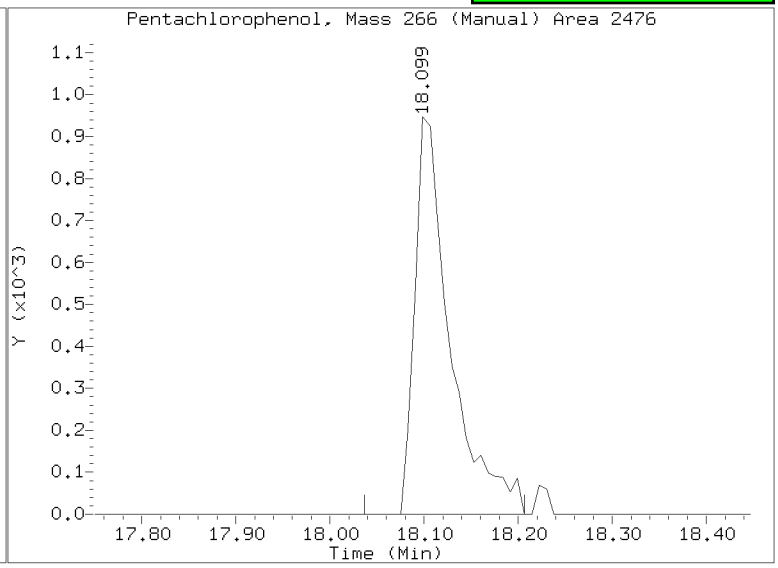


Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.20000	0.2	13.7	50.00
bis(2-chloroethyl) ether	0.20000	0.2	19.6	50.00
2-Chlorophenol	0.20000	0.2	23.1	50.00
1,3-Dichlorobenzene	0.20000	0.2	23.5	50.00
1,4-Dichlorobenzene	0.20000	0.3	25.1	50.00
1,2-Dichlorobenzene	0.20000	0.2	21.0	50.00
Benzyl Alcohol	0.20000	0.2	-17.4	50.00
2,2'-Oxybis(1-chloropropane)	0.20000	0.2	21.5	50.00
2-Methylphenol	0.20000	0.2	10.4	50.00
Hexachloroethane	0.20000	0.2	-1.0	50.00
N-Nitroso-di-n-Propylamine	0.20000	0.2	17.6	50.00
4-Methylphenol	0.20000	0.2	4.0	50.00
Nitrobenzene	0.20000	0.2	11.5	50.00
Isophorone	0.20000	0.2	-1.4	50.00
2-Nitrophenol	0.20000	0.2	5.8	50.00
2,4-Dimethylphenol	0.40000	0.5	14.7	50.00
Bis(2-Chloroethoxy)methane	0.20000	0.2	18.0	50.00
2,4-Dichlorophenol	0.40000	0.4	2.5	50.00
1,2,4-Trichlorobenzene	0.20000	0.2	20.1	50.00
Naphthalene	0.20000	0.2	17.7	50.00
Benzoic acid	0.80000	0.2	-73.8	50.00
4-Chloroaniline	0.40000	0.4	1.3	50.00
Hexachlorobutadiene	0.20000	0.2	19.0	50.00
4-Chloro-3-Methylphenol	0.40000	0.4	8.2	50.00
2-Methylnaphthalene	0.20000	0.2	13.5	50.00
Hexachlorocyclopentadiene	0.40000	0.04	-89.9	50.00
2,4,6-Trichlorophenol	0.40000	0.3	-13.9	50.00
2,4,5-Trichlorophenol	0.40000	0.4	-9.9	50.00
2-Chloronaphthalene	0.20000	0.2	17.3	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

2-Nitroaniline	0.40000	0.4	7.4	50.00
Acenaphthylene	0.20000	0.2	14.6	50.00
Dimethylphthalate	0.20000	0.2	6.9	50.00
2,6-Dinitrotoluene	0.40000	0.4	-4.5	50.00
Acenaphthene	0.20000	0.2	17.9	50.00
3-Nitroaniline	0.40000	0.4	-10.9	50.00
2,4-Dinitrophenol	0.80000	0.0		50.00
Dibenzofuran	0.20000	0.2	20.3	50.00
4-Nitrophenol	0.40000	0.3	-33.0	50.00
2,4-Dinitrotoluene	0.40000	0.3	-15.3	50.00
Fluorene	0.20000	0.2	16.7	50.00
4-Chlorophenylphenyl ether	0.20000	0.2	5.7	50.00
Diethyl phthalate	0.20000	0.3	29.8	50.00
4-Nitroaniline	0.40000	0.4	-6.5	50.00
4,6-Dinitro-2-methylphenol	0.80000	0.09	-88.4	50.00
N-Nitrosodiphenylamine	0.20000	0.3	25.4	50.00
4-Bromophenyl phenyl ether	0.20000	0.2	11.6	50.00
Hexachlorobenzene	0.20000	0.2	18.4	50.00
Pentachlorophenol	0.40000	0.02	-94.9	50.00
Phenanthrene	0.20000	0.2	19.8	50.00
Anthracene	0.20000	0.2	16.1	50.00
Carbazole	0.20000	0.2	15.4	50.00
Di-n-Butylphthalate	0.20000	0.2	13.6	50.00
Fluoranthene	0.20000	0.2	19.0	50.00
Pyrene	0.20000	0.2	16.7	50.00
Butylbenzylphthalate	0.20000	0.3	34.9	50.00
Benzo(a)anthracene	0.20000	0.3	32.0	50.00
3,3'-Dichlorobenzidine	0.60000	0.8	36.5	50.00
Chrysene	0.20000	0.2	21.4	50.00
bis(2-Ethylhexyl)phthalate	0.20000	0.3	30.5	50.00
Di-n-Octylphthalate	0.20000	0.2	23.0	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV3
Sequence: SKL0355
Standard ID: K011105

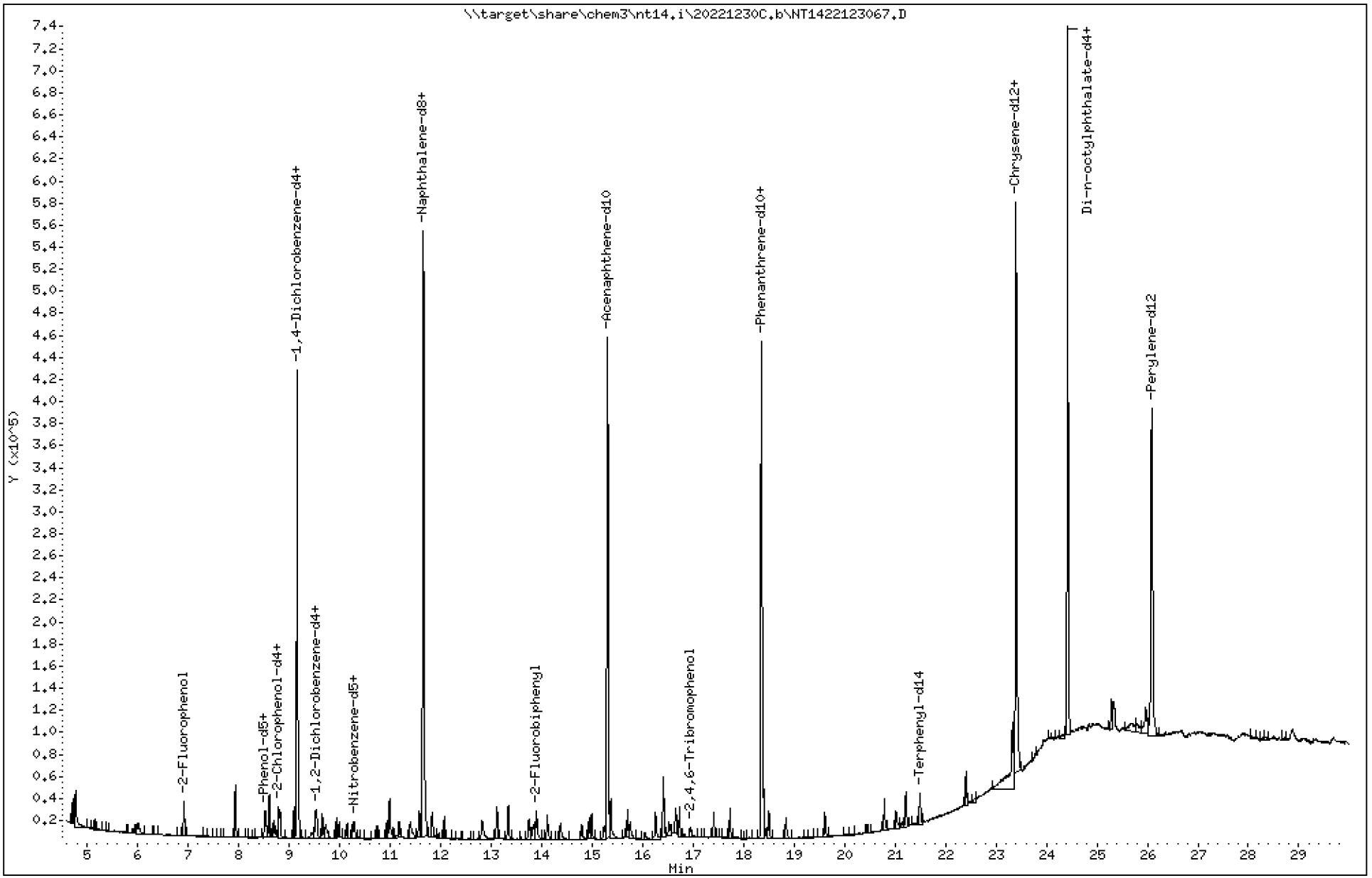
Benzofluoranthenes, Total	0.40000	0.5	31.6	50.00
Benzo(a)pyrene	0.20000	0.3	26.2	50.00
Indeno(1,2,3-cd)pyrene	0.20000	0.1	-25.3	50.00
Dibenzo(a,h)anthracene	0.20000	0.2	-24.6	50.00
Benzo(g,h,i)perylene	0.20000	0.1	-47.1	50.00
1-Methylnaphthalene	0.20000	0.2	13.7	50.00
2-Fluorophenol	0.30000	0.357	18.9	50.00
Phenol-d5	0.30000	0.312	4.0	50.00
2-Chlorophenol-d4	0.30000	0.337	12.3	50.00
1,2-Dichlorobenzene-d4	0.20000	0.240	20.2	50.00
Nitrobenzene-d5	0.20000	0.227	13.3	50.00
2-Fluorobiphenyl	0.20000	0.223	11.4	50.00
2,4,6-Tribromophenol	0.30000	0.225	-25.1	50.00
p-Terphenyl-d14	0.20000	0.222	11.1	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
Date : 01-JAN-2023 00:06
Client ID:
Sample Info: SKL0355-LCV3

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

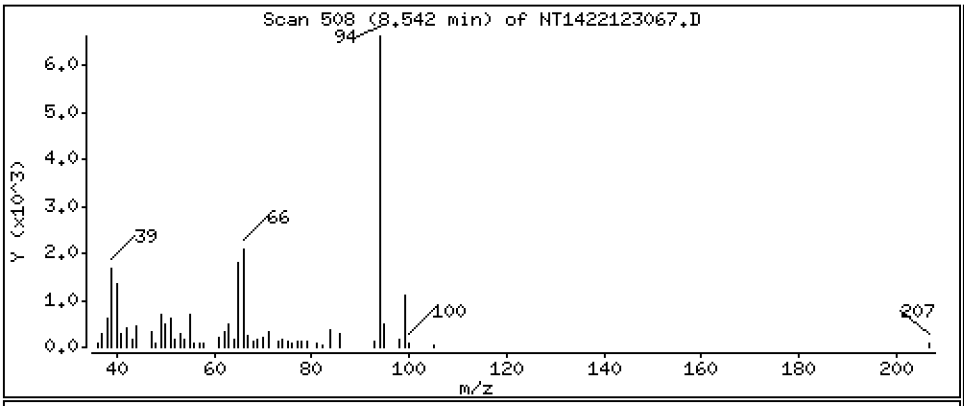
Operator: VTS

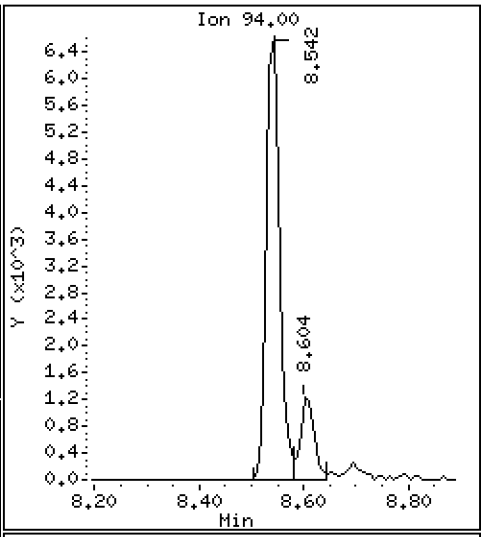
Column phase: ZB-5msi

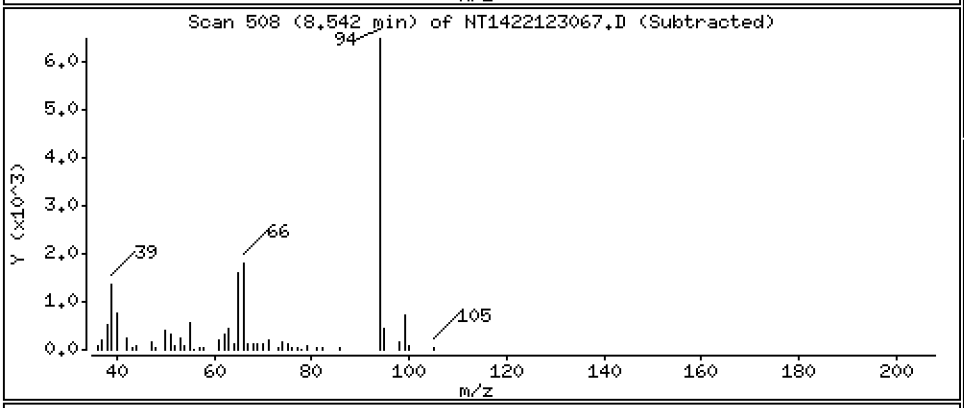
Column diameter: 0.25

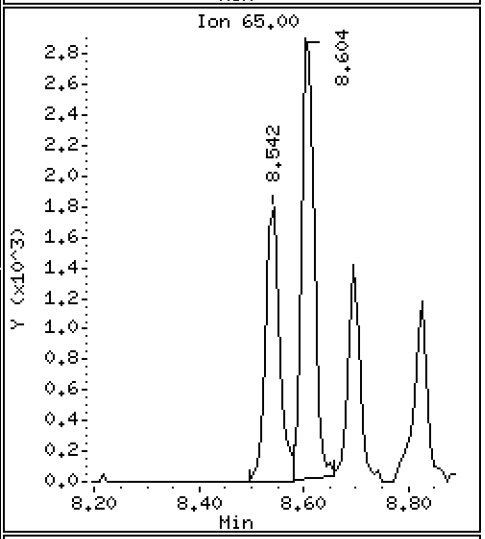
3 Phenol

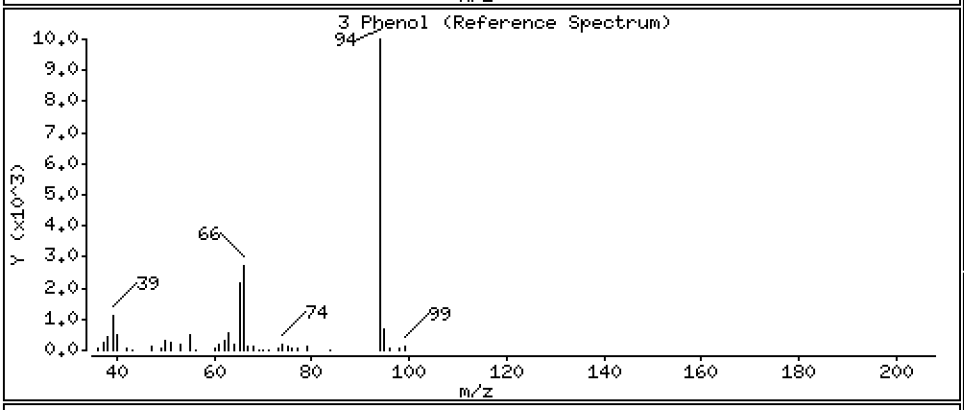
Concentration: 0.2273 ug/mL

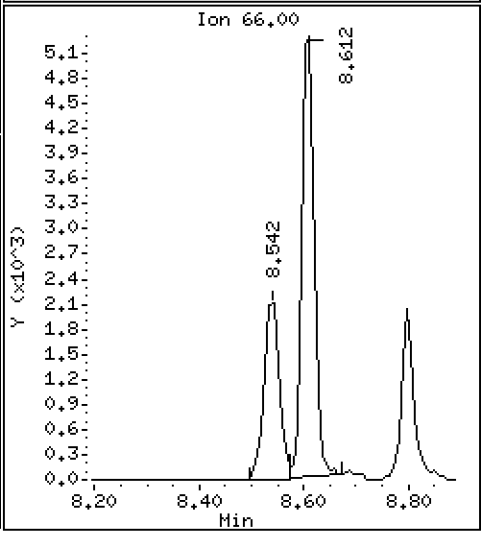


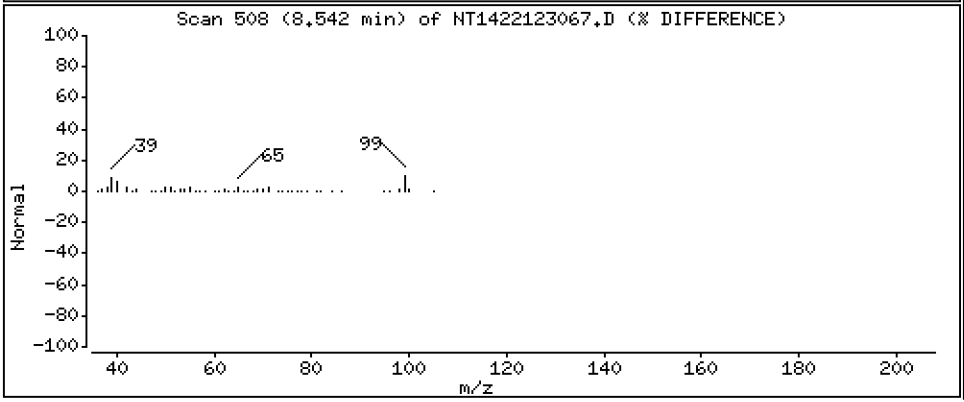












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

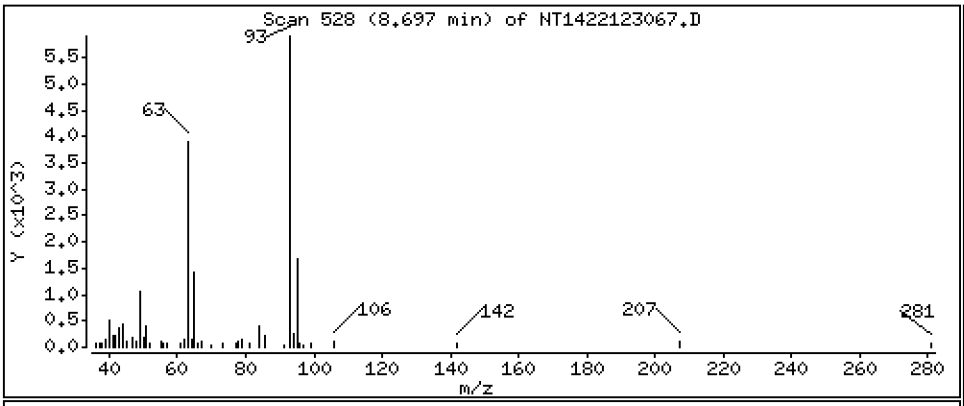
Operator: VTS

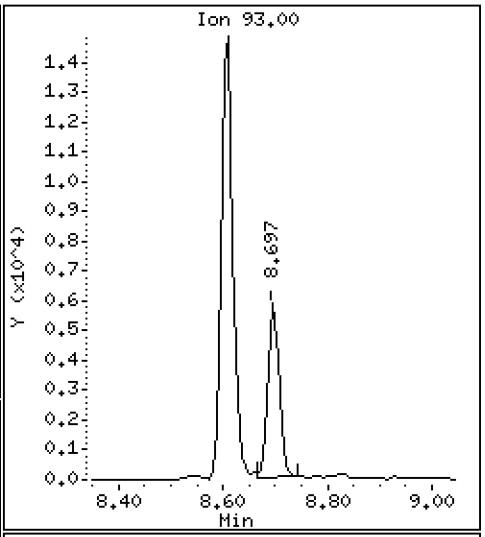
Column phase: ZB-5msi

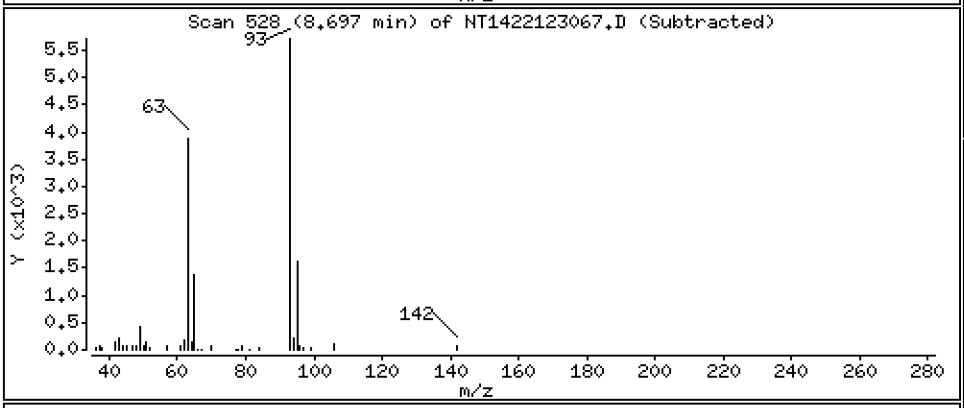
Column diameter: 0.25

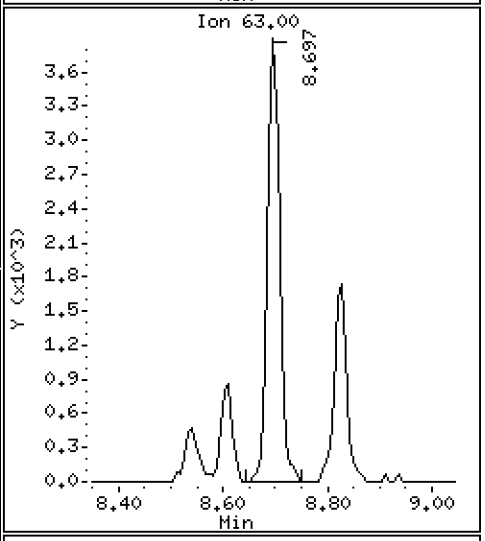
4 Bis(2-Chloroethyl)ether

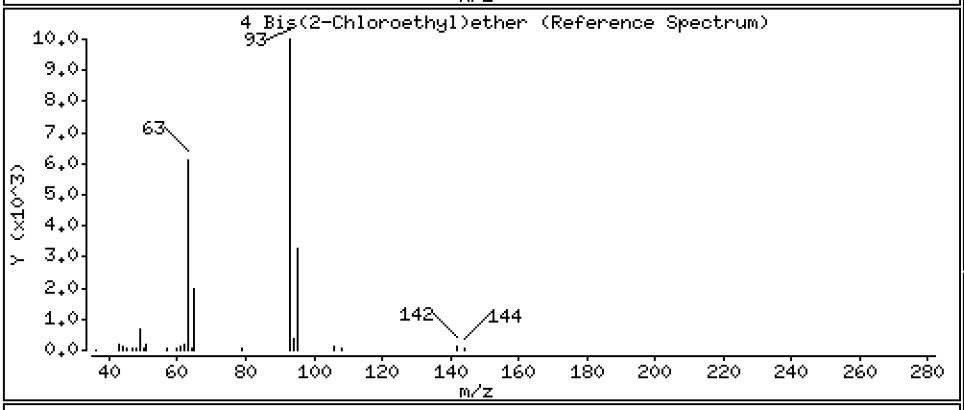
Concentration: 0.2393 ug/mL

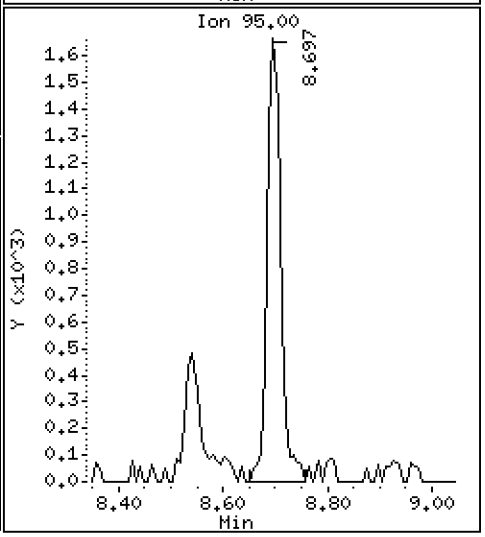


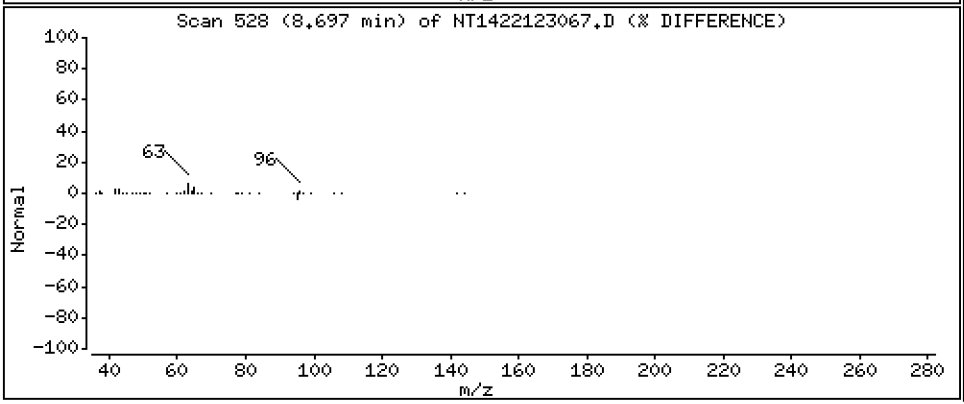












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

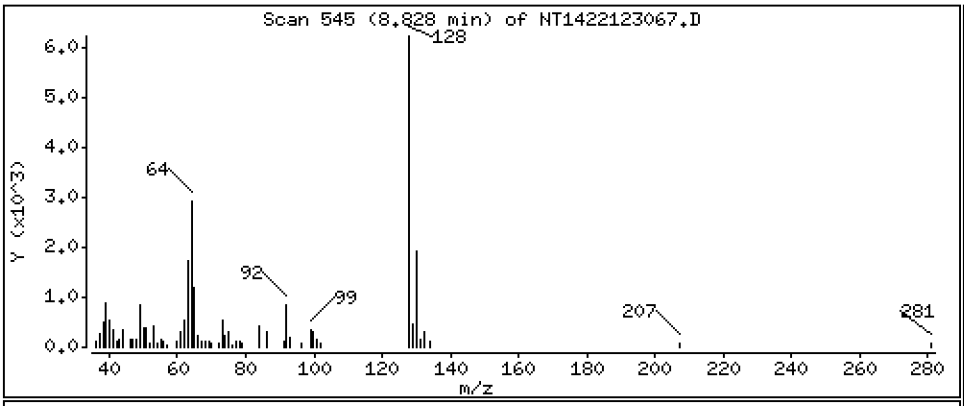
Operator: VTS

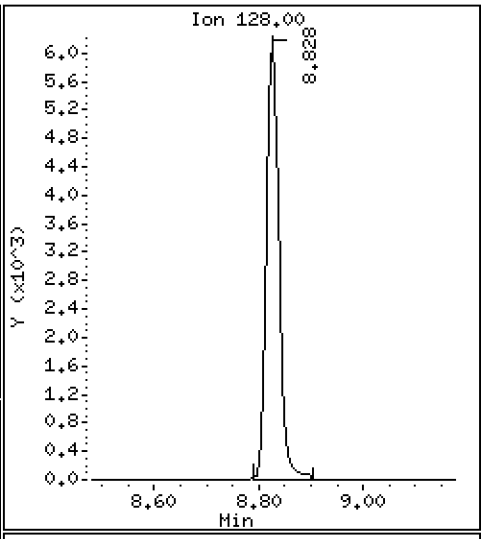
Column phase: ZB-5msi

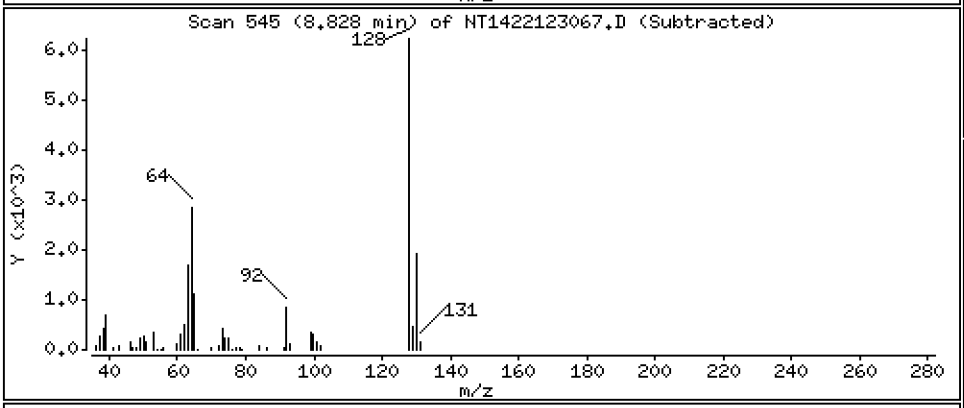
Column diameter: 0.25

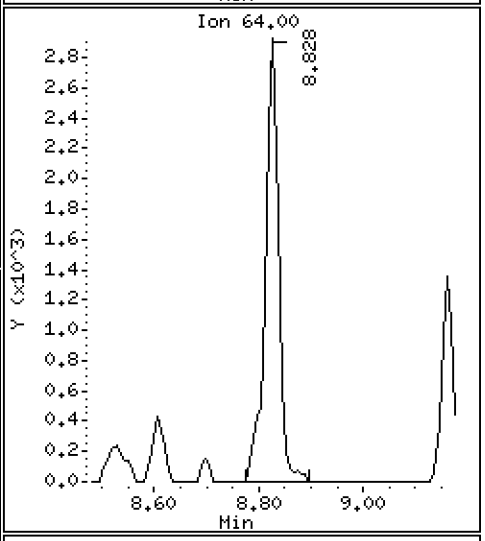
6 2-Chlorophenol

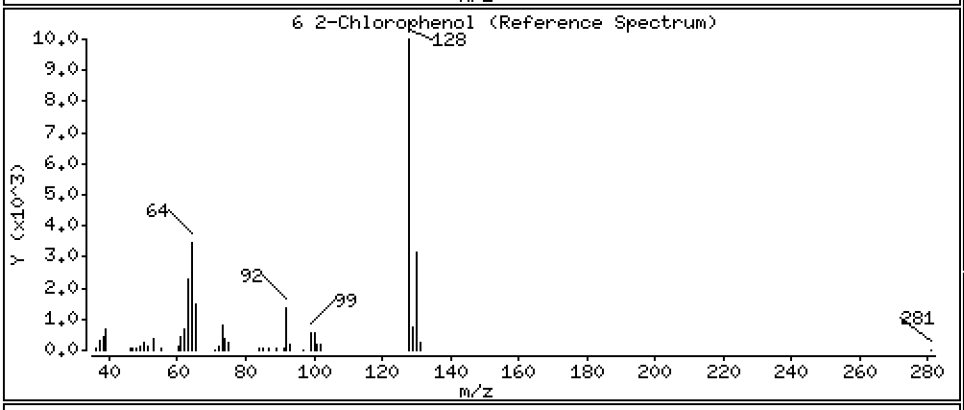
Concentration: 0.2462 ug/mL

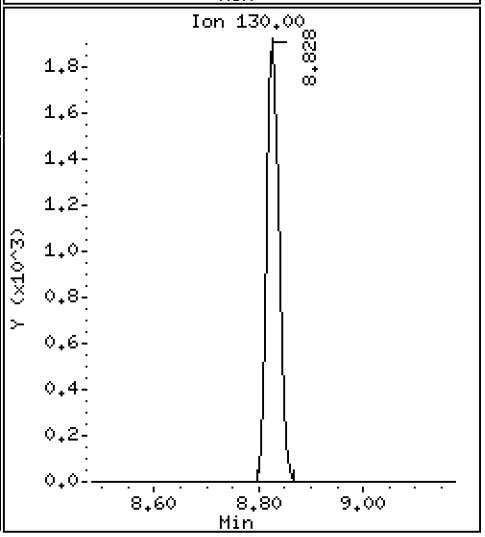


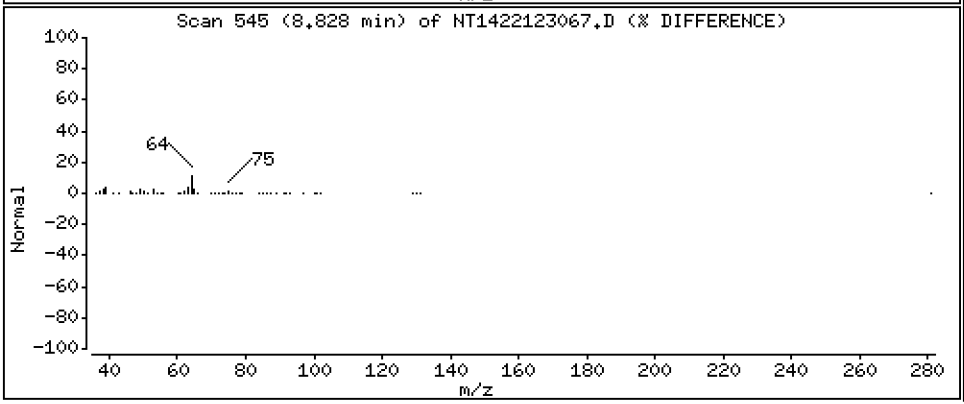












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

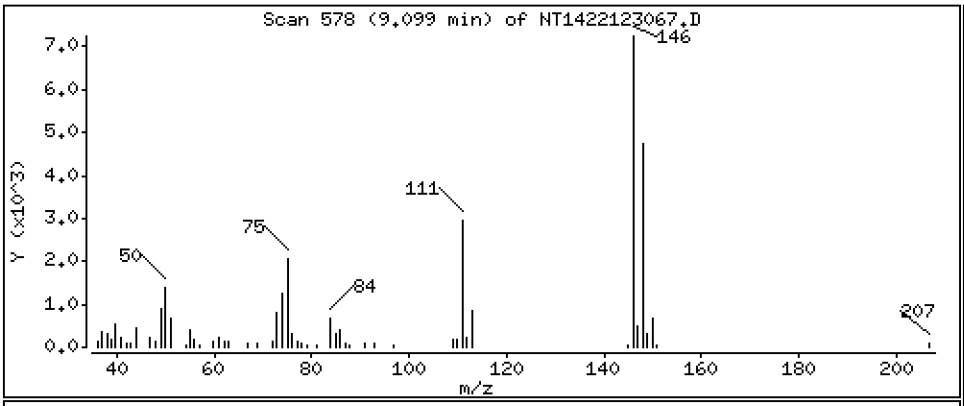
Operator: VTS

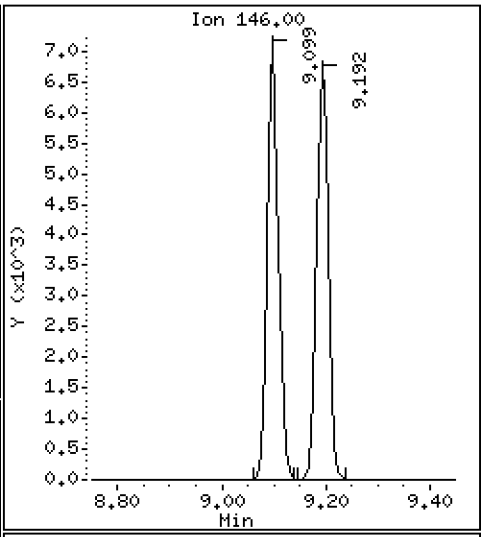
Column phase: ZB-5msi

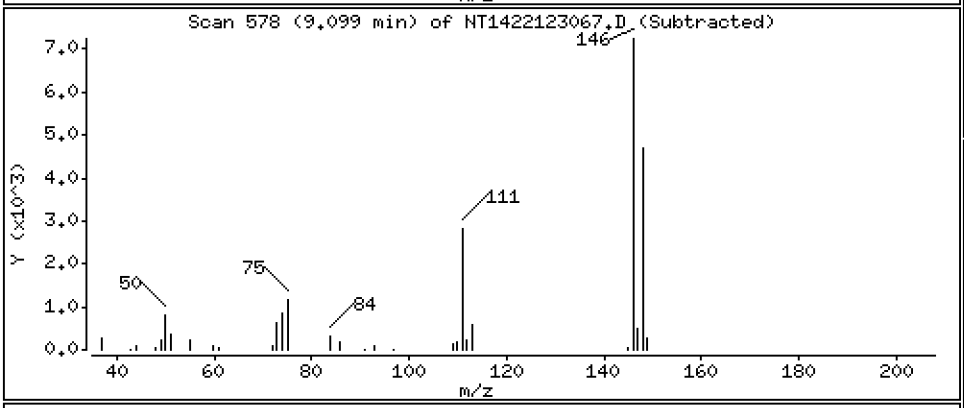
Column diameter: 0.25

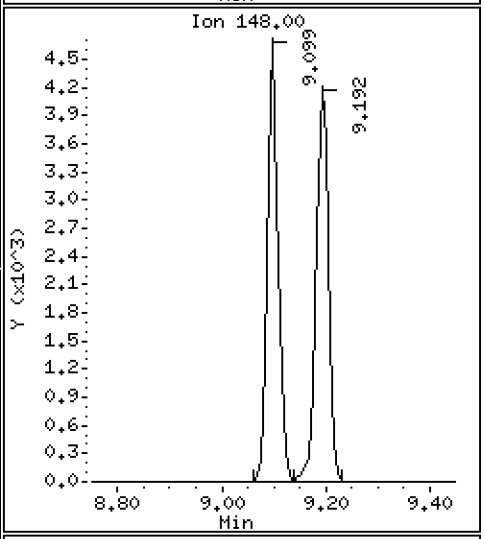
7 1,3-Dichlorobenzene

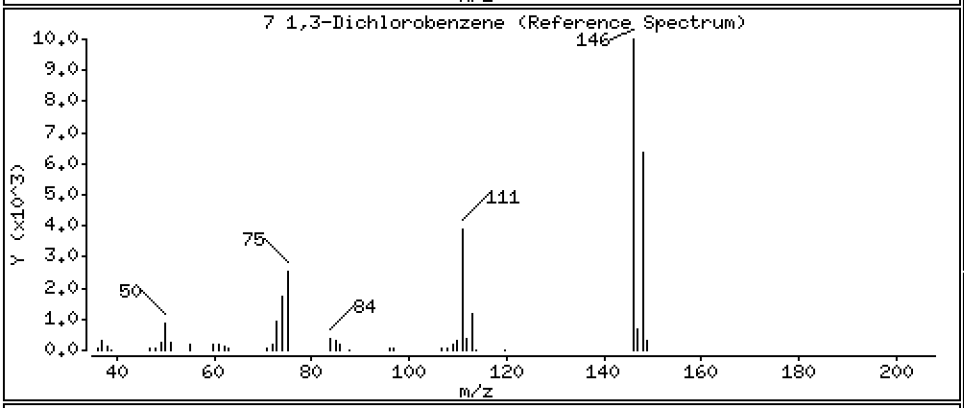
Concentration: 0.2470 ug/mL

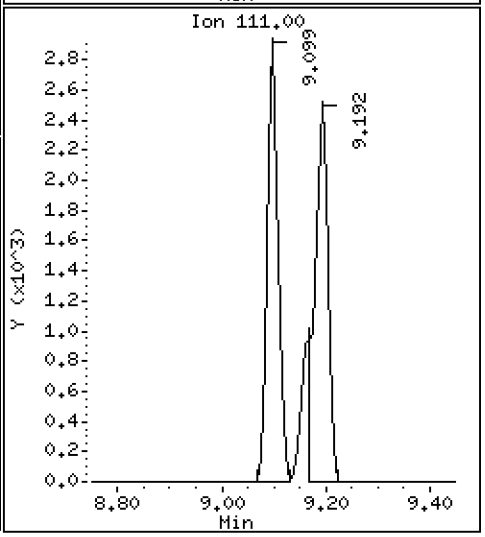


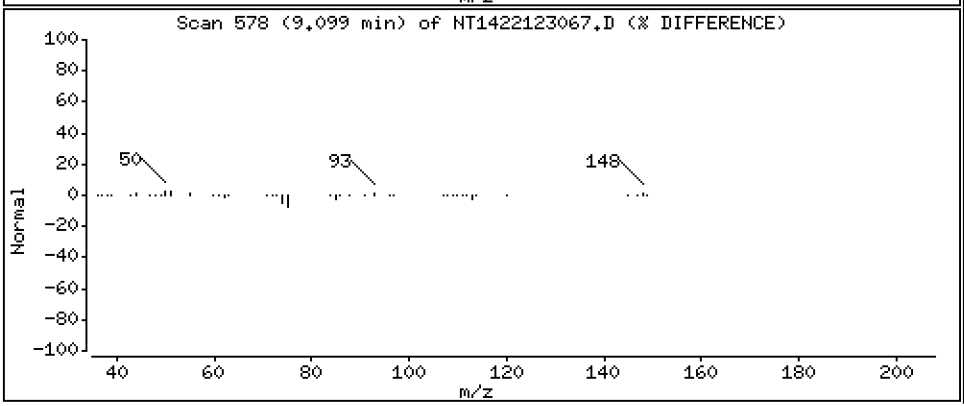












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

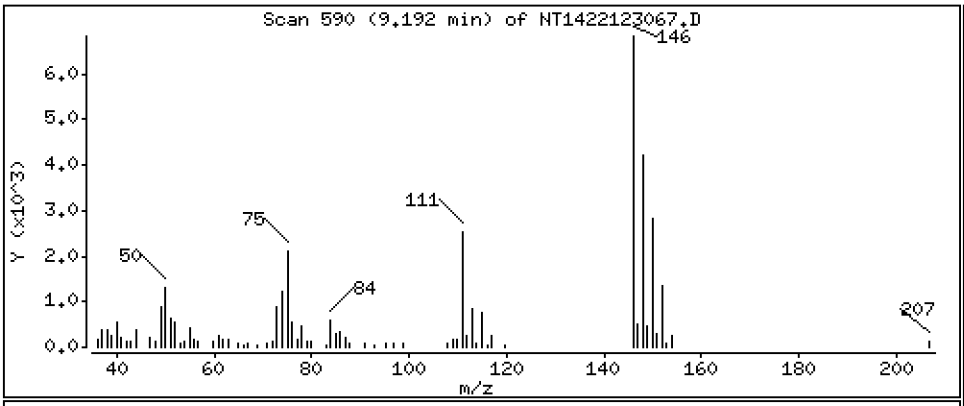
Operator: VTS

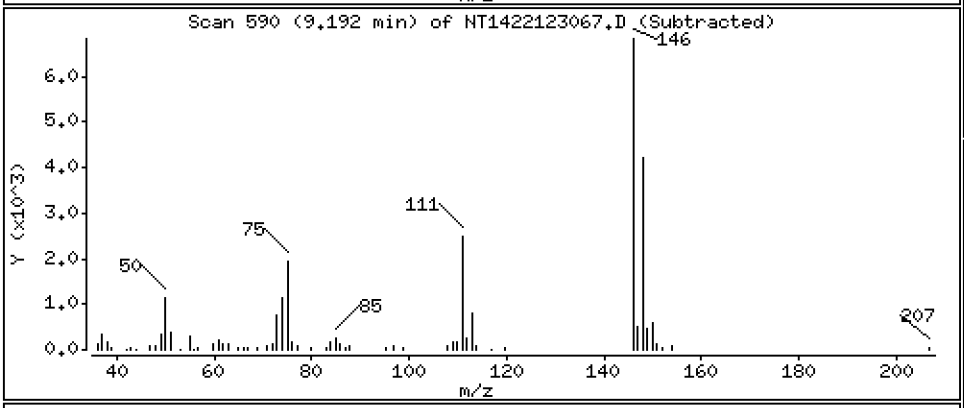
Column phase: ZB-5msi

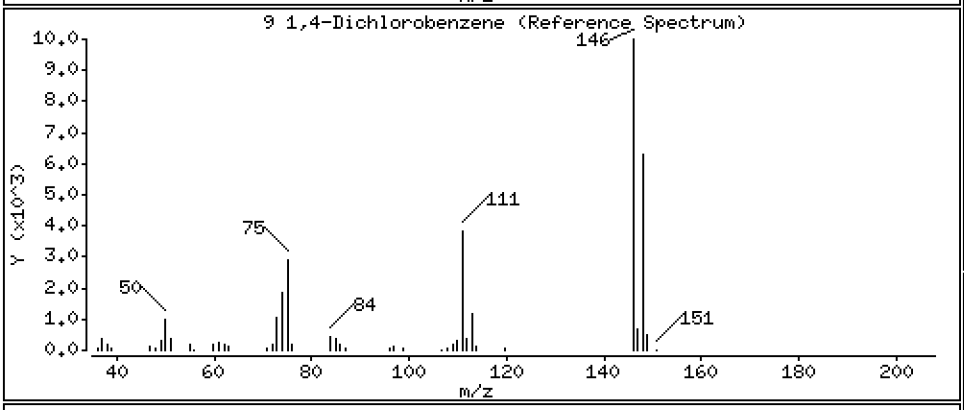
Column diameter: 0.25

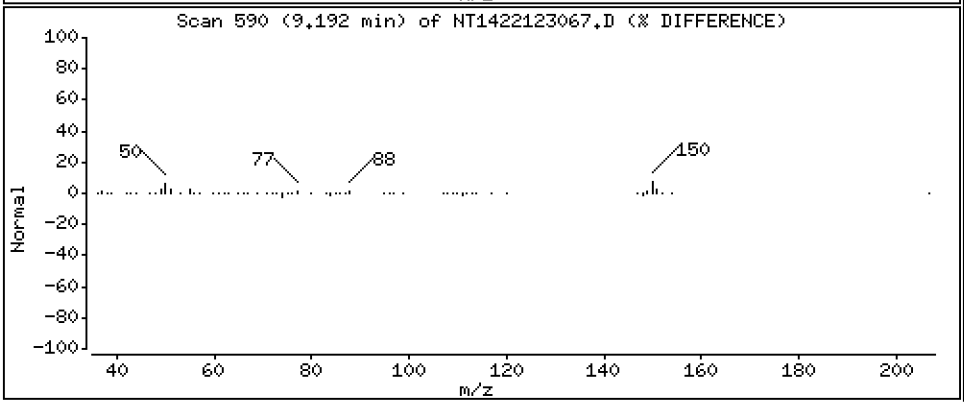
9 1,4-Dichlorobenzene

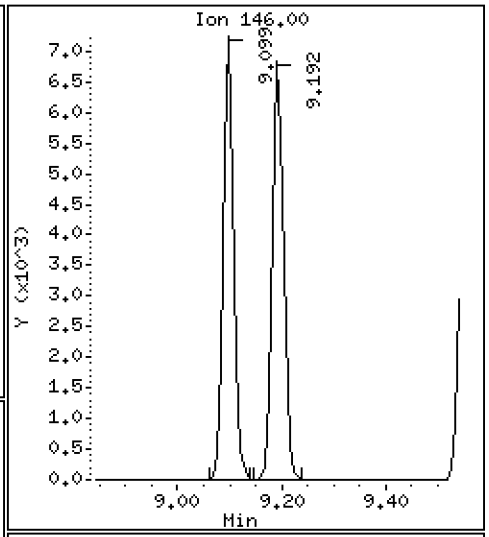
Concentration: 0.2502 ug/mL

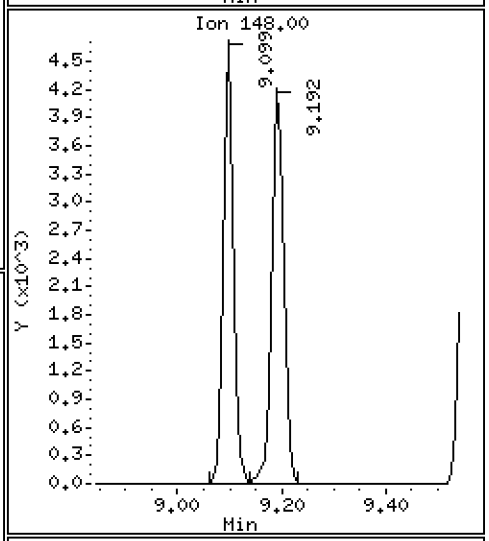


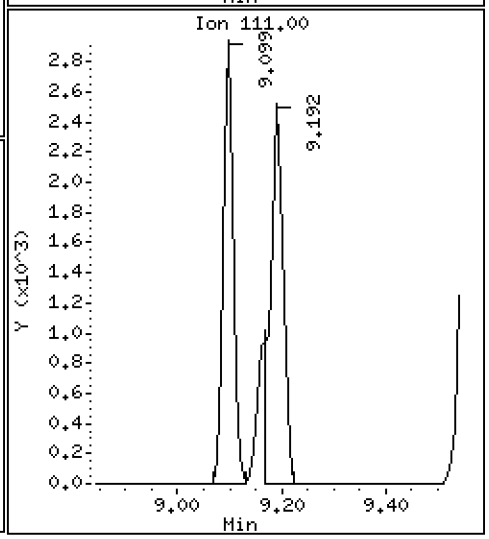












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

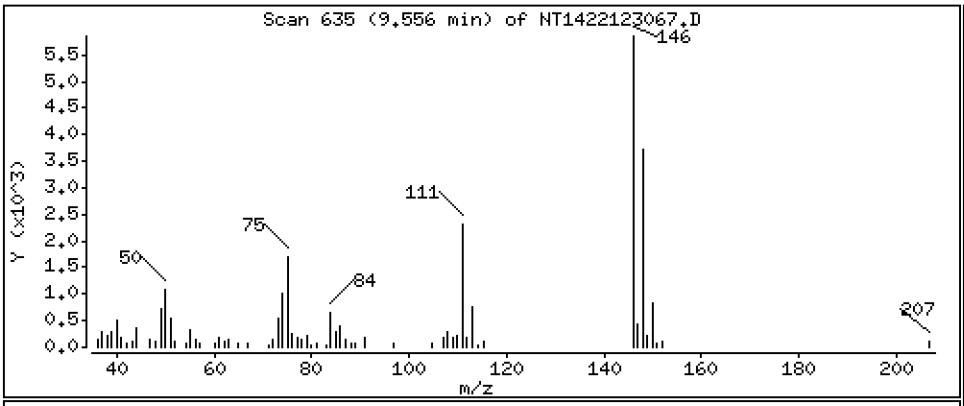
Operator: VTS

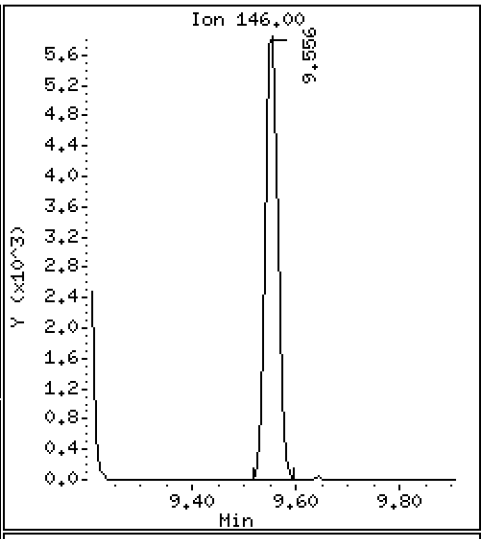
Column phase: ZB-5msi

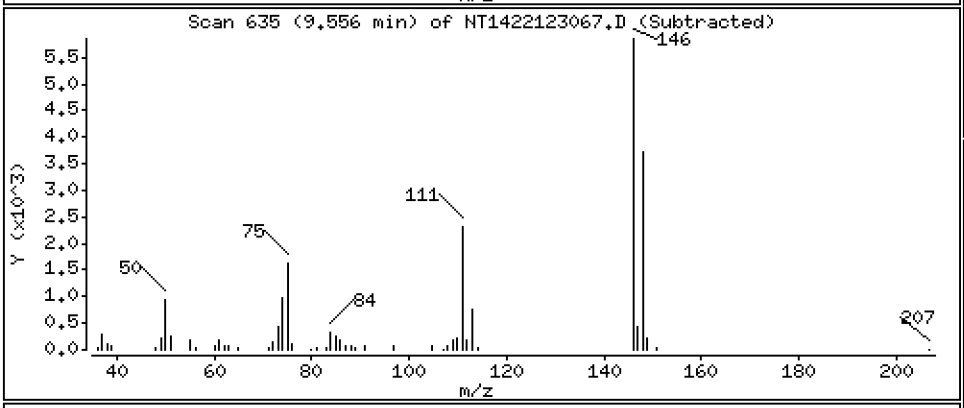
Column diameter: 0.25

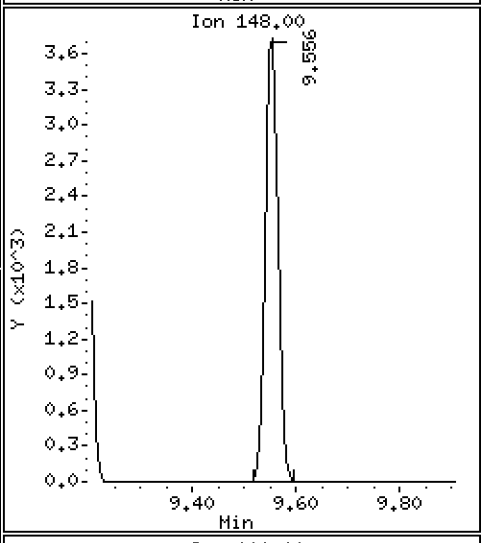
12 1,2-Dichlorobenzene

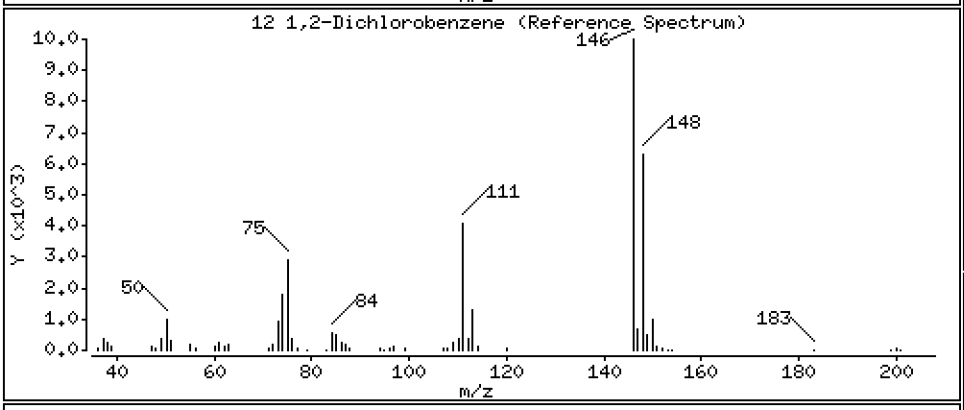
Concentration: 0.2420 ug/mL

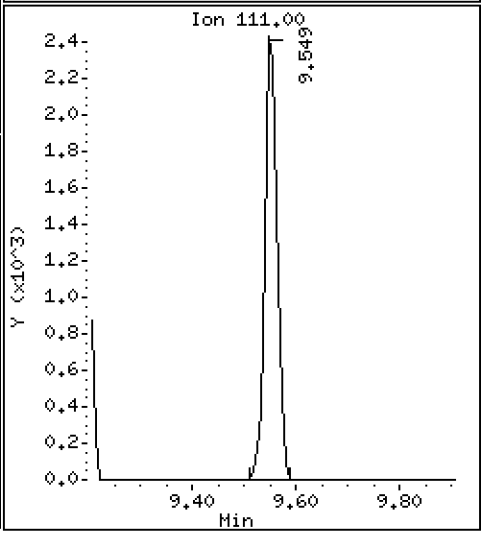


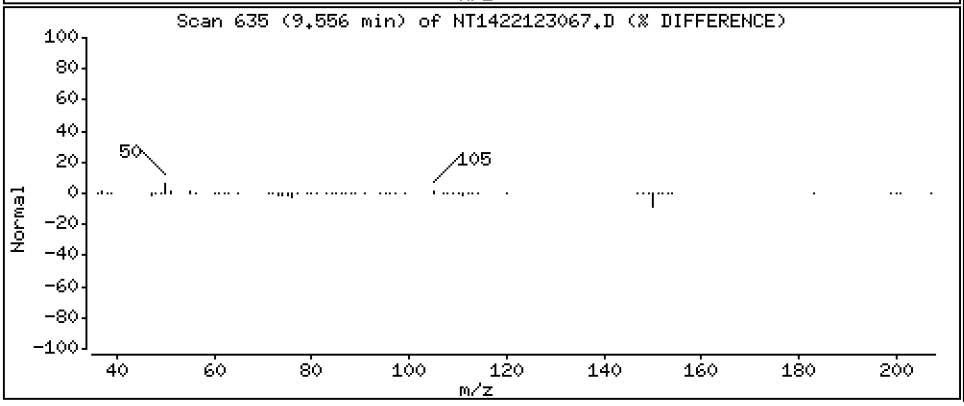












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

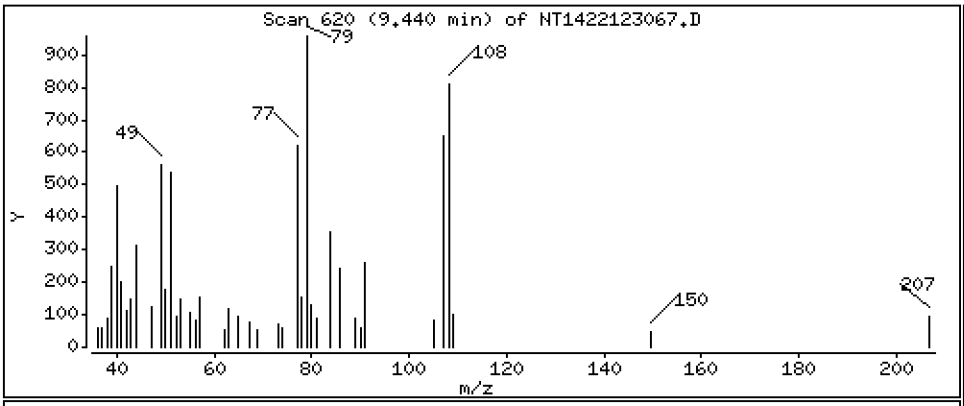
Operator: VTS

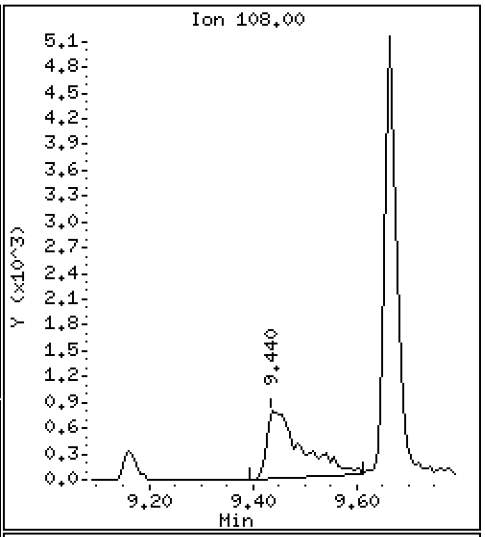
Column phase: ZB-5msi

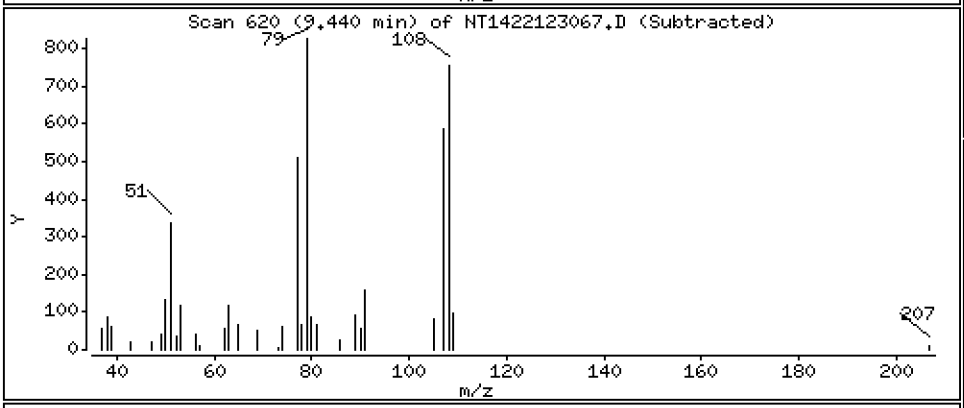
Column diameter: 0.25

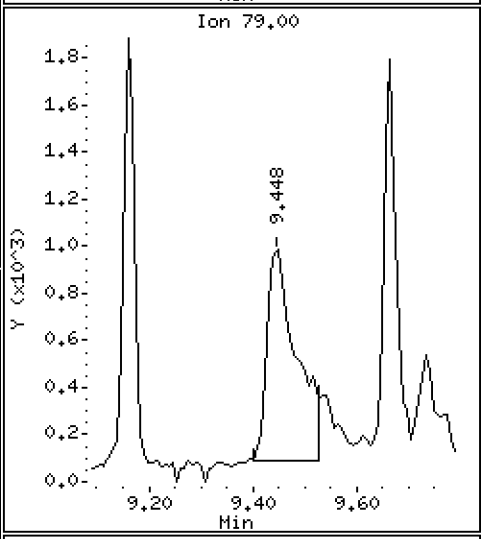
11 Benzyl alcohol

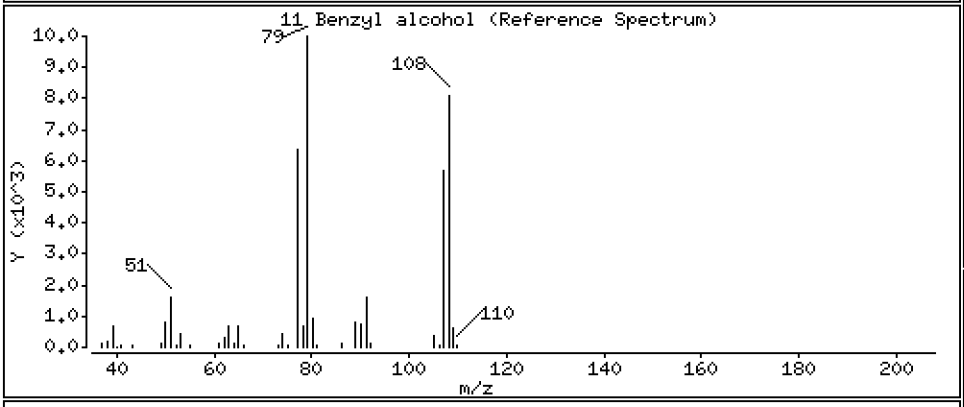
Concentration: 0.1653 ug/mL

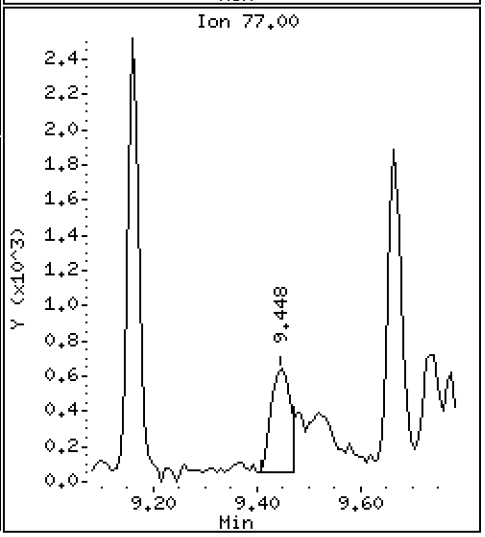


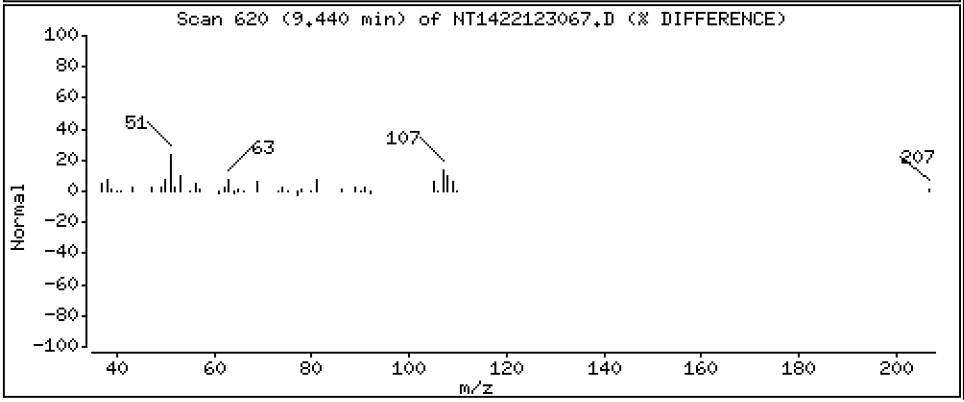












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

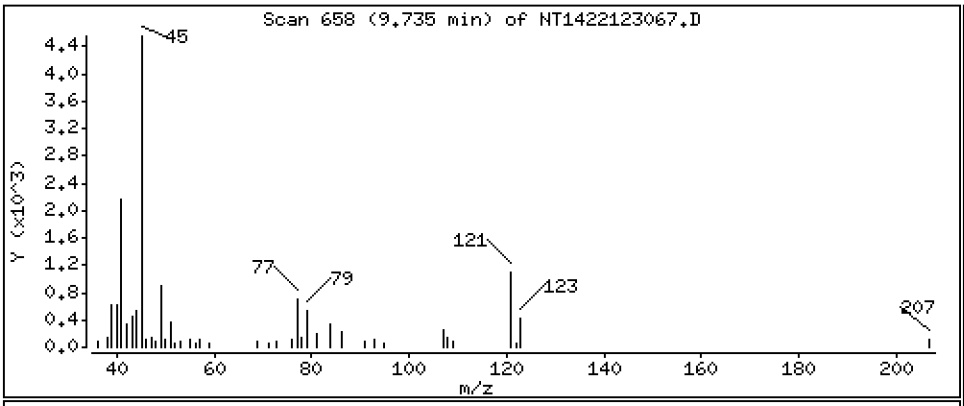
Operator: VTS

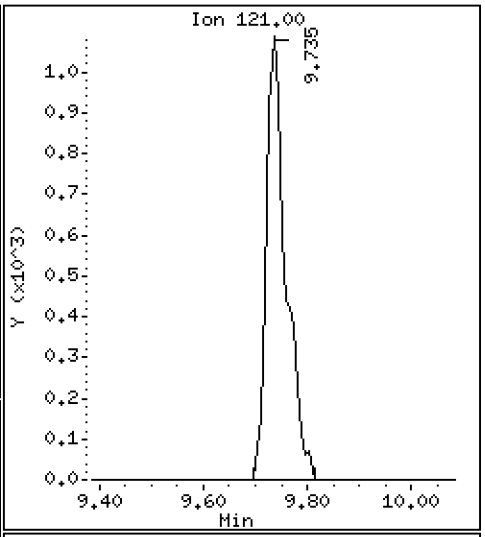
Column phase: ZB-5msi

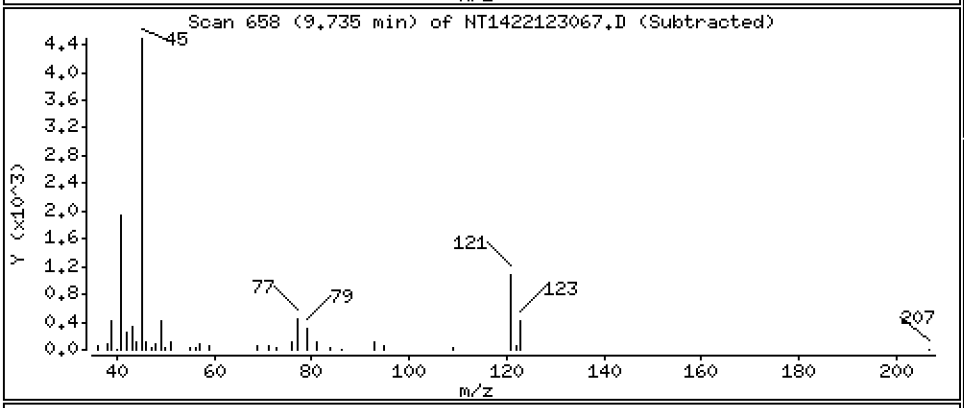
Column diameter: 0.25

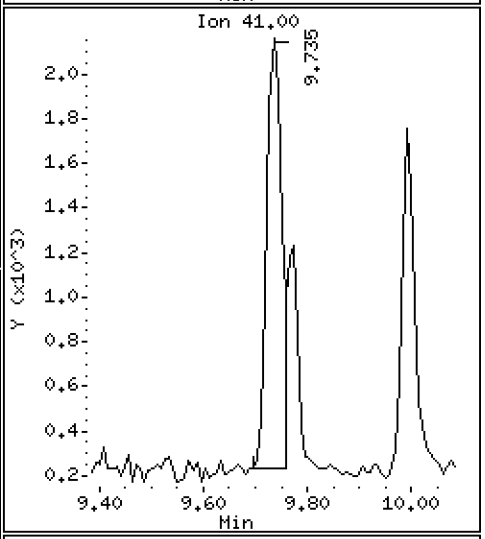
14 2,2'-oxybis(1-Chloropropane)

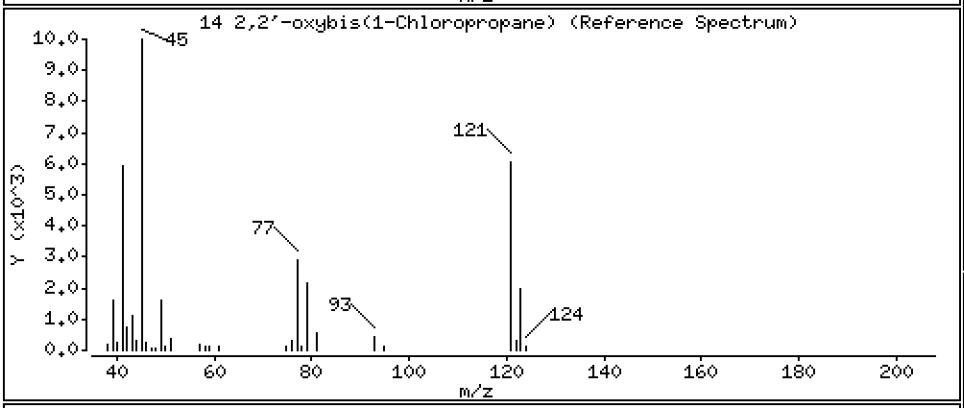
Concentration: 0.2430 ug/mL

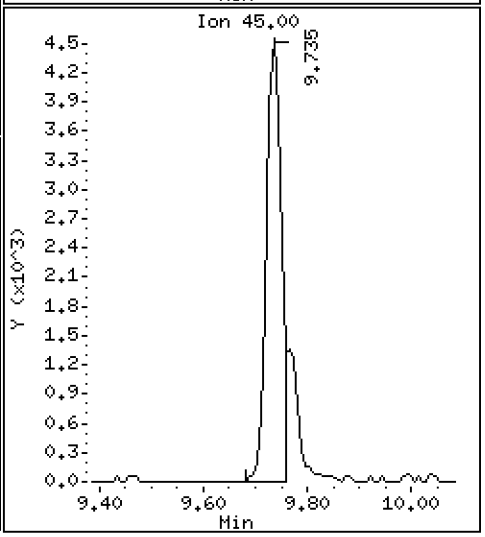


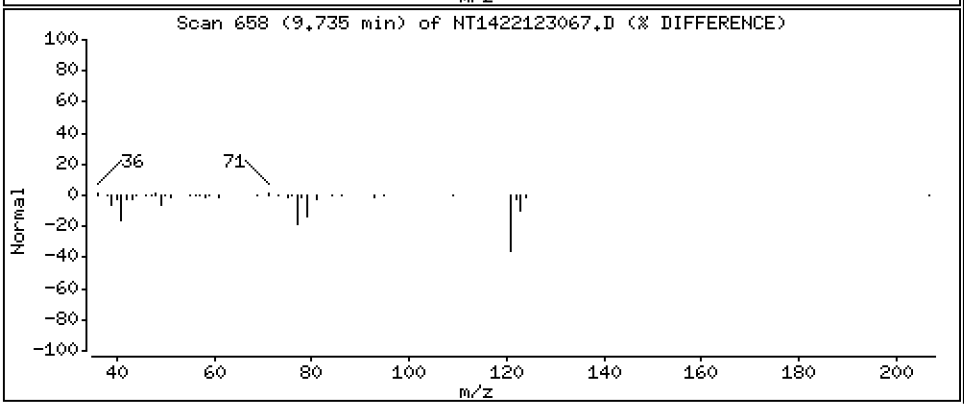












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

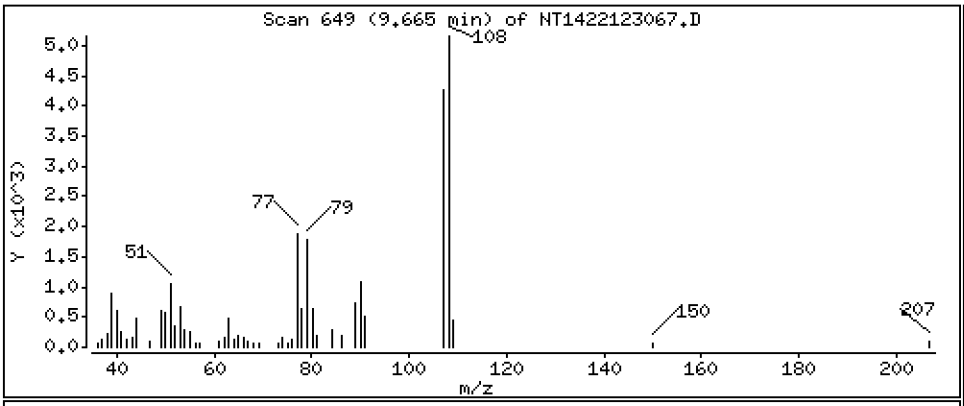
Operator: VTS

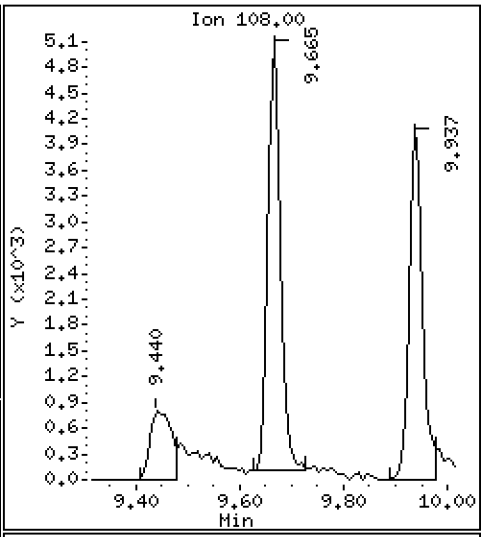
Column phase: ZB-5msi

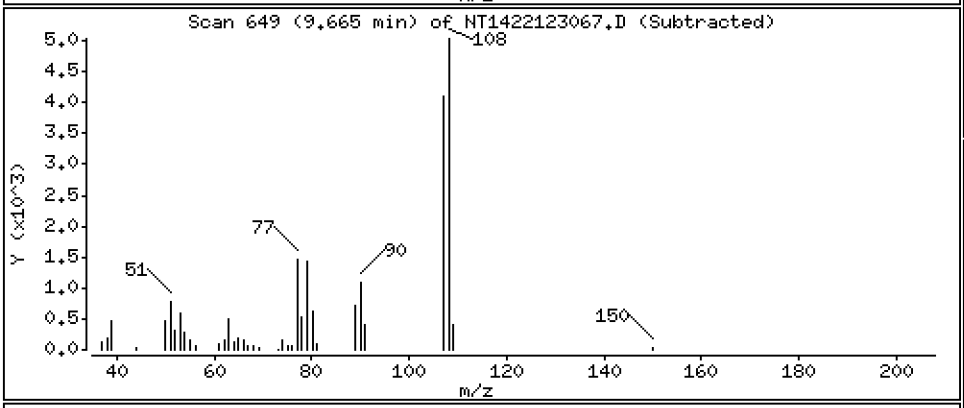
Column diameter: 0.25

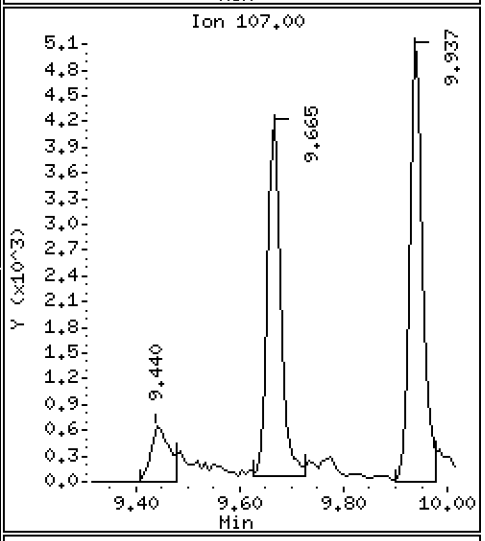
13 2-Methylphenol

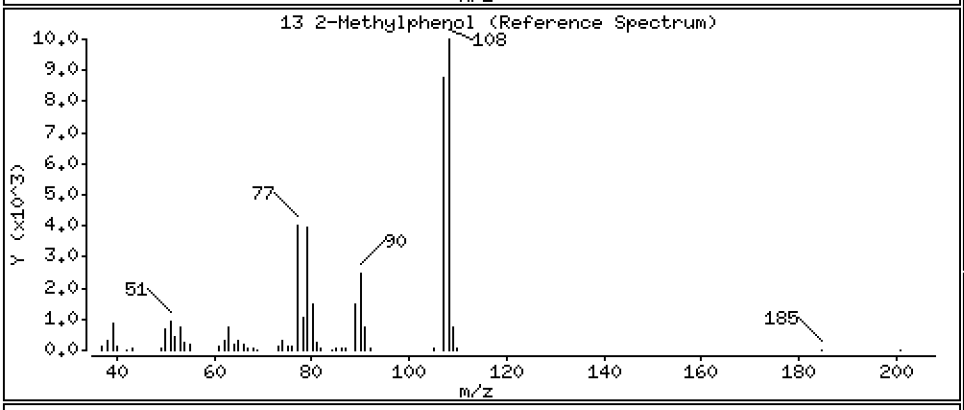
Concentration: 0.2207 ug/mL

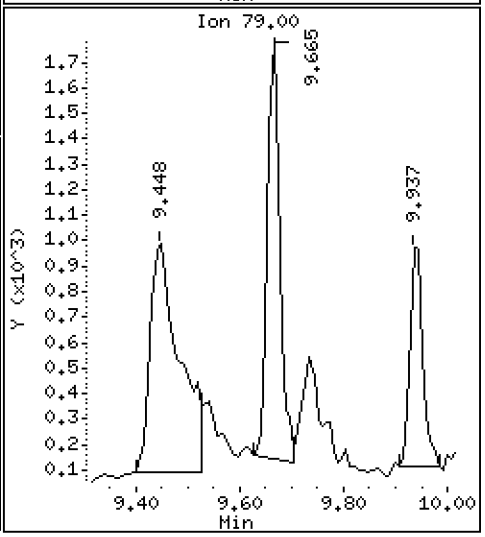


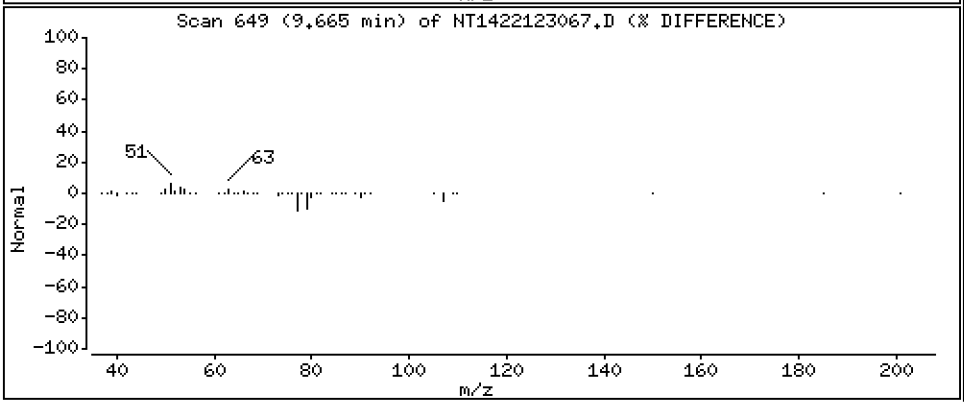












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

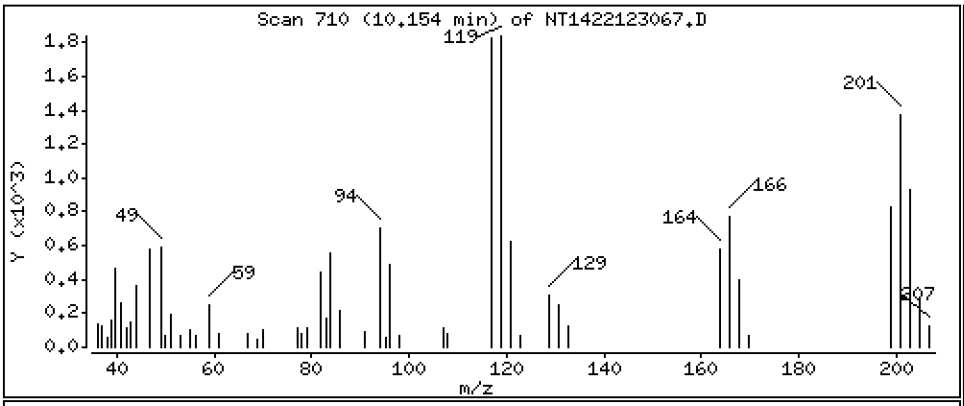
Operator: VTS

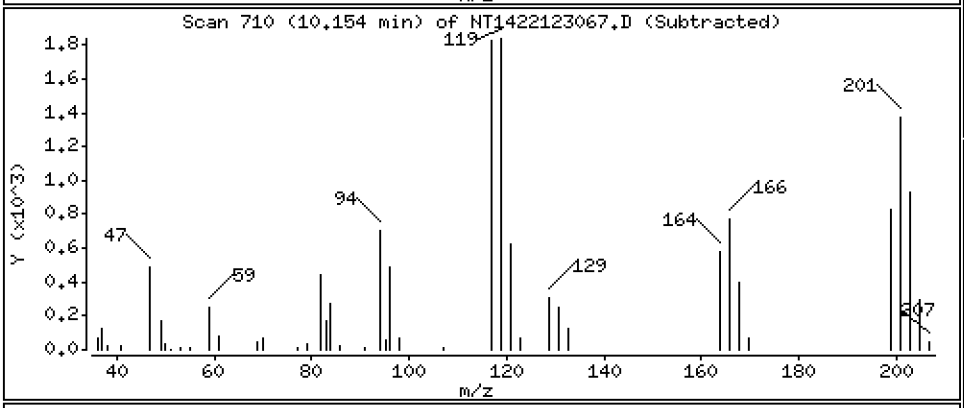
Column phase: ZB-5msi

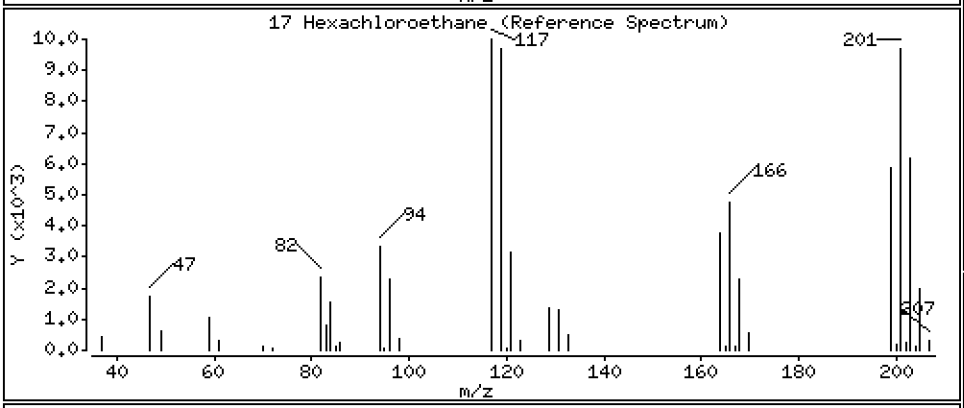
Column diameter: 0.25

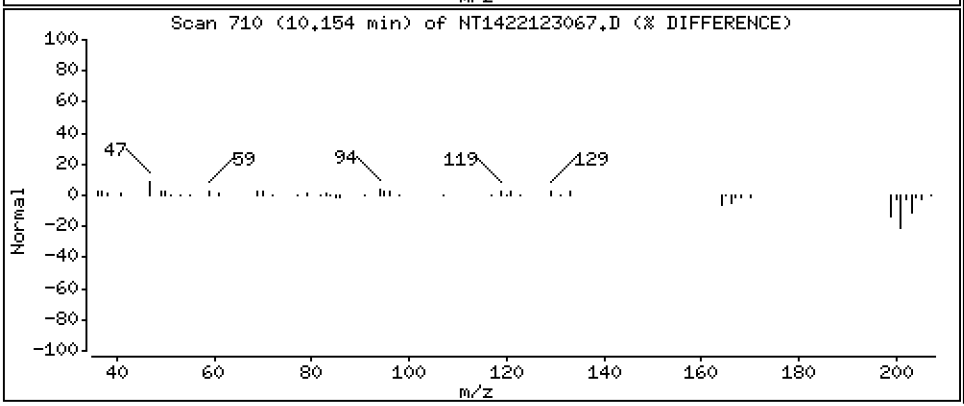
17 Hexachloroethane

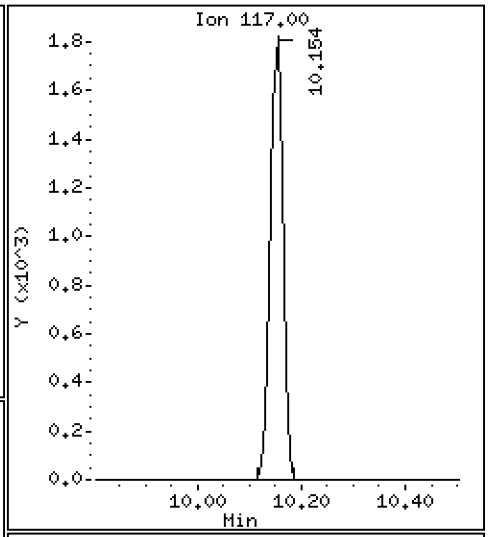
Concentration: 0.1979 ug/mL

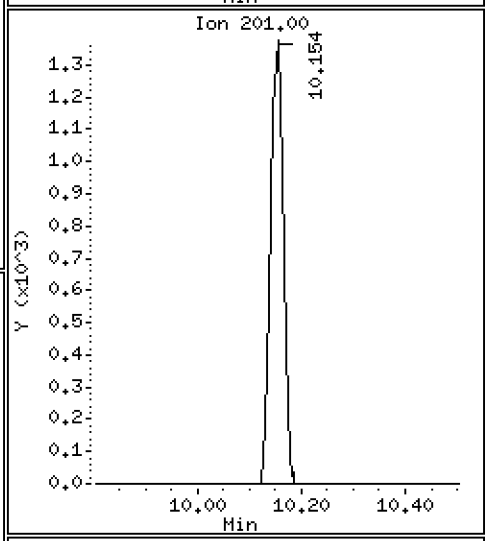


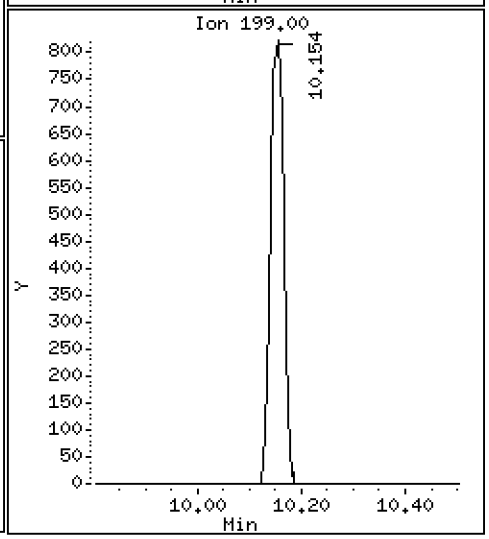












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

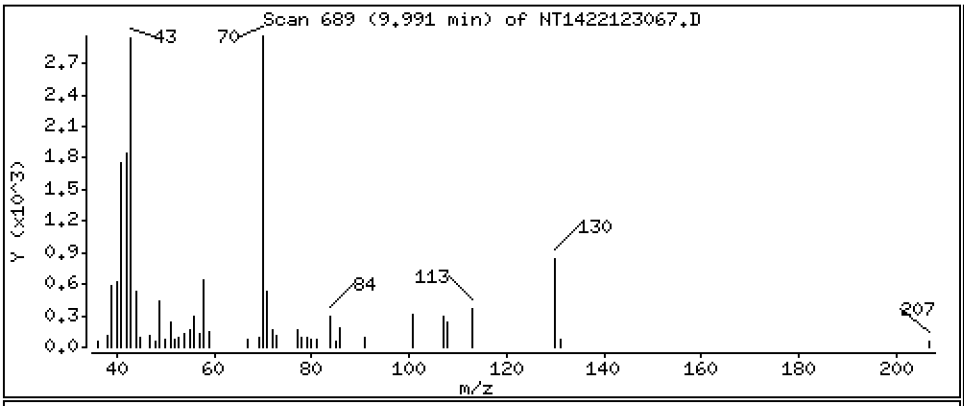
Operator: VTS

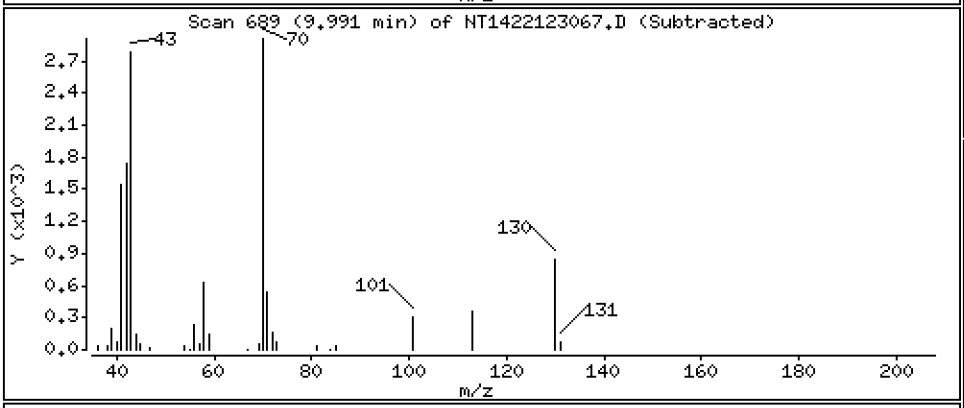
Column phase: ZB-5msi

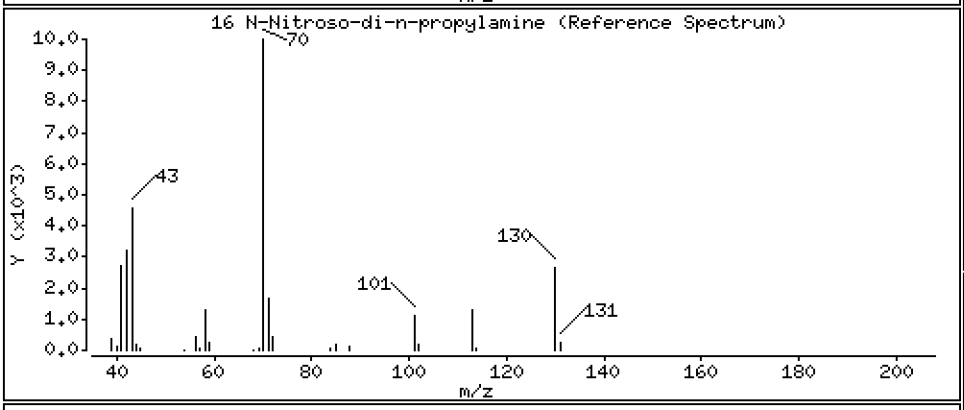
Column diameter: 0.25

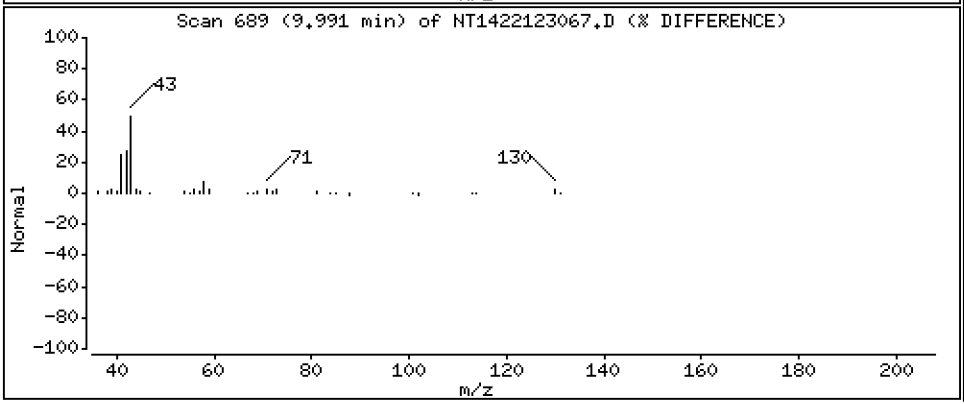
16 N-Nitroso-di-n-propylamine

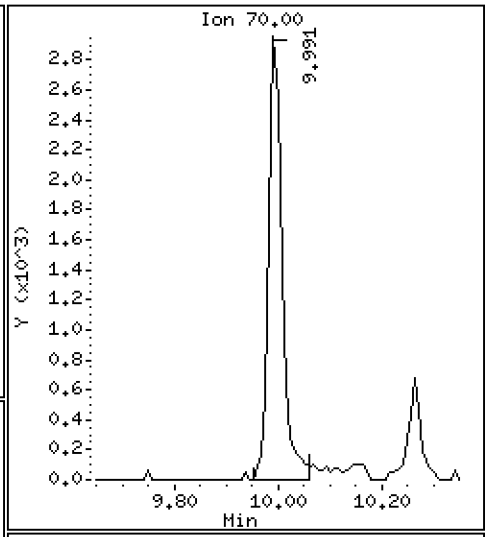
Concentration: 0.2352 ug/mL

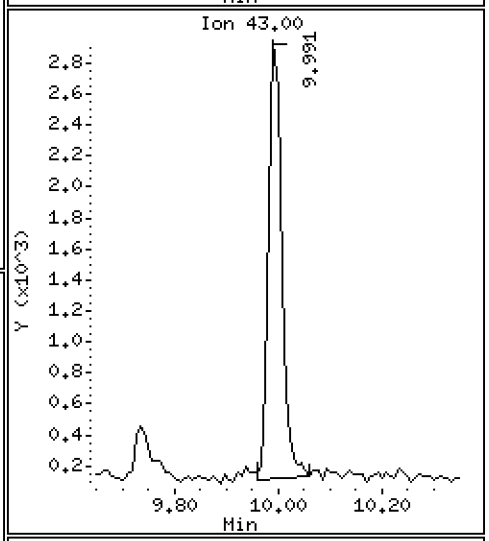


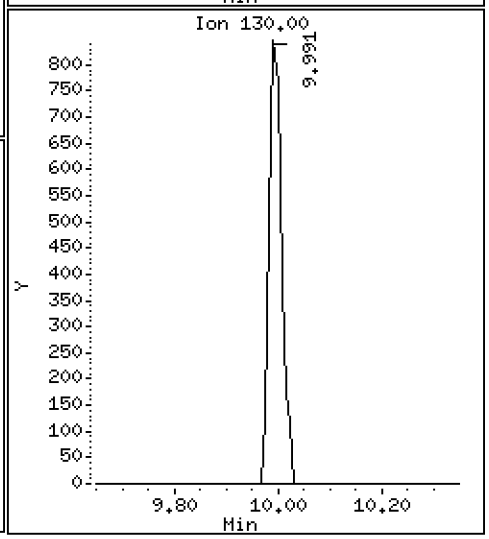












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

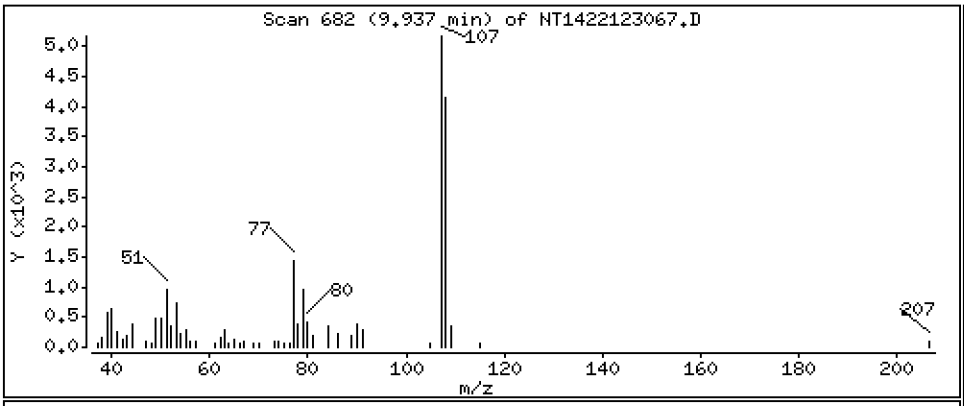
Operator: VTS

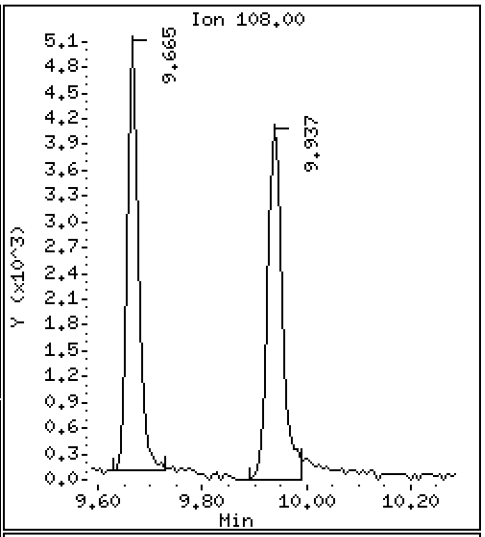
Column phase: ZB-5msi

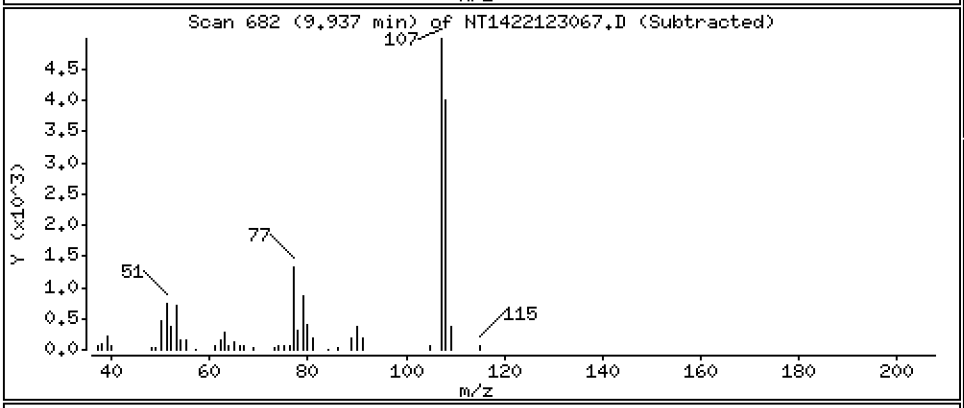
Column diameter: 0.25

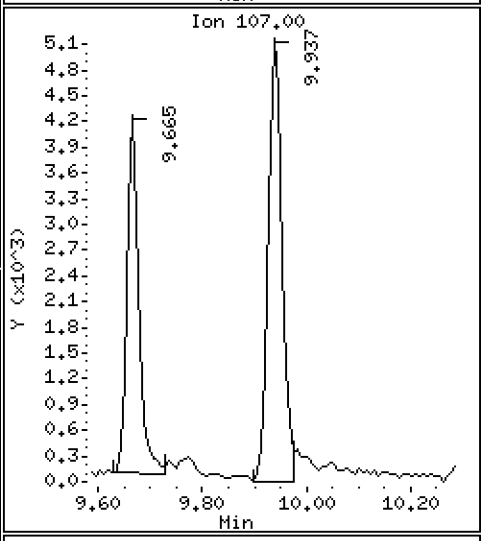
15 4-Methylphenol

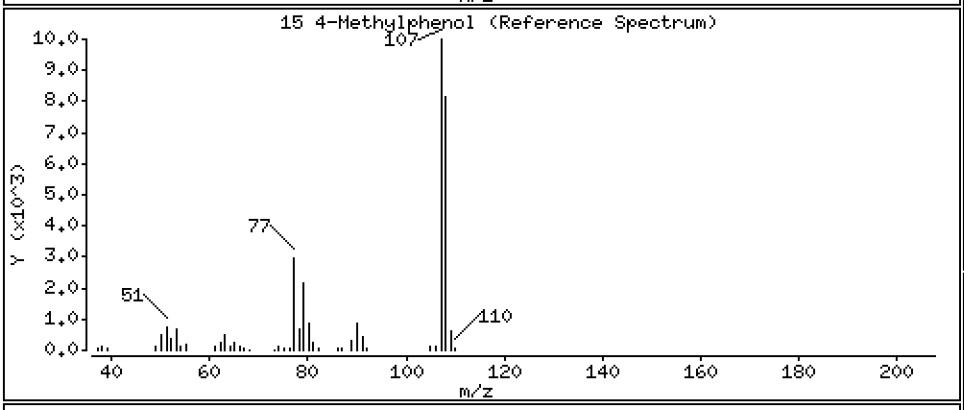
Concentration: 0.2079 ug/mL

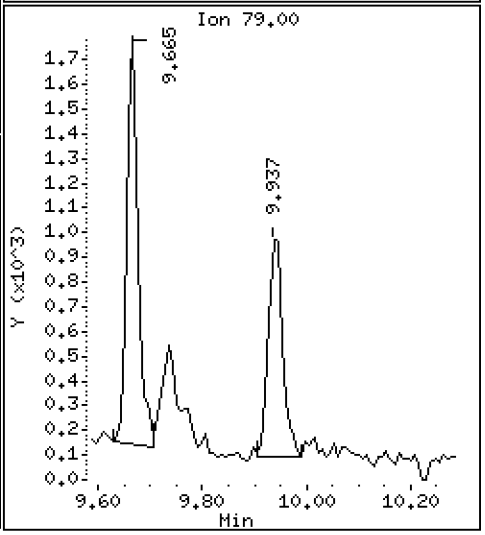


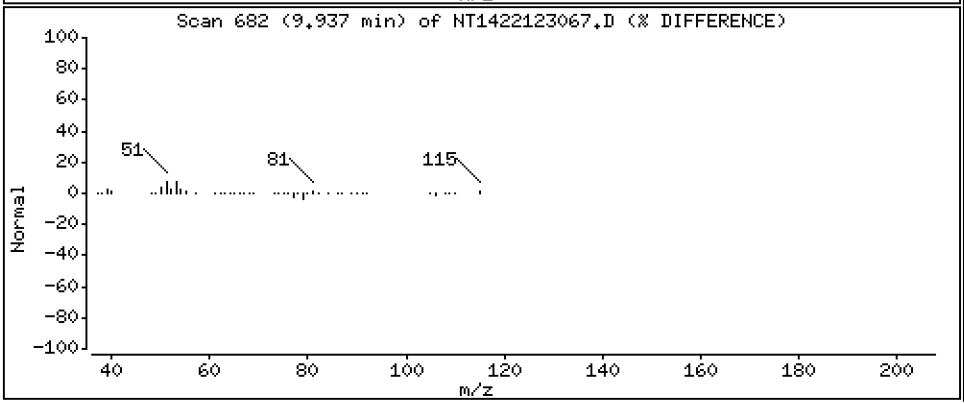












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

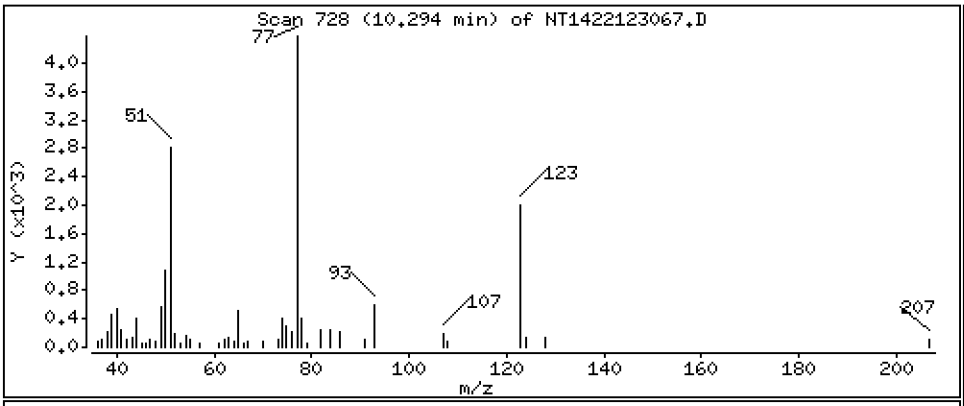
Operator: VTS

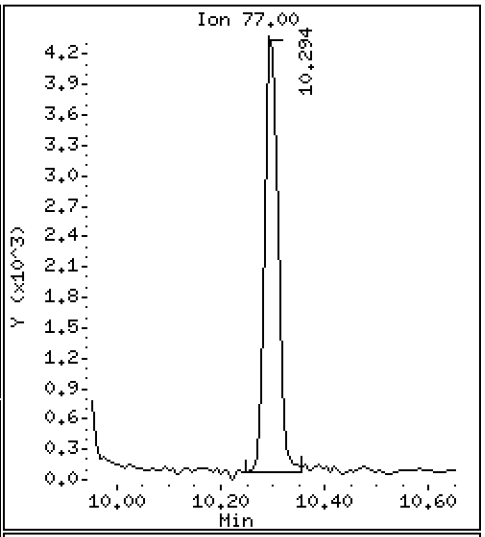
Column phase: ZB-5msi

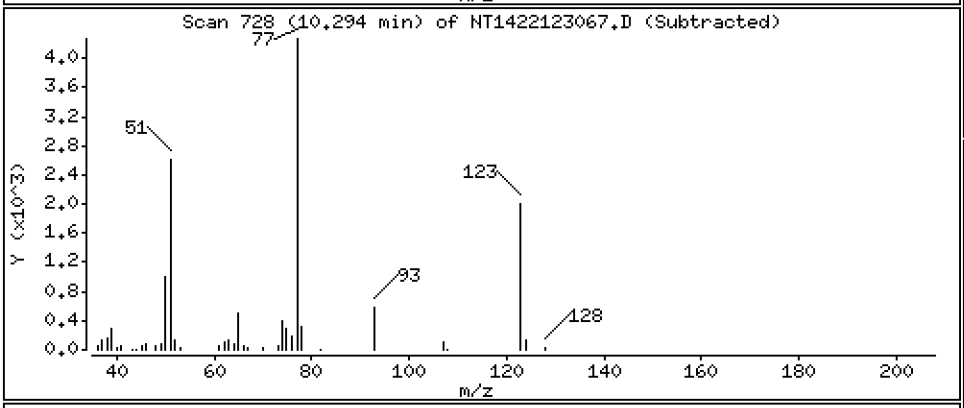
Column diameter: 0.25

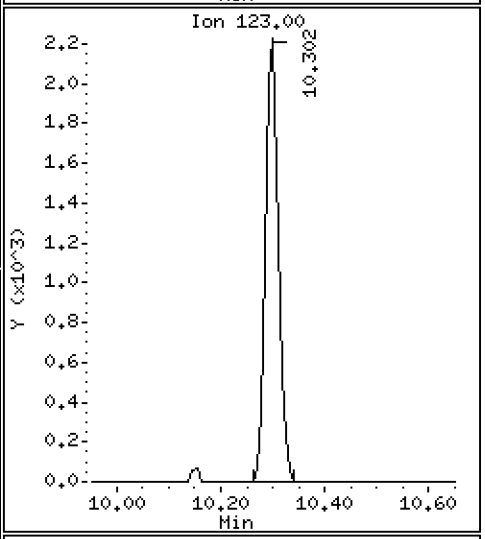
19 Nitrobenzene

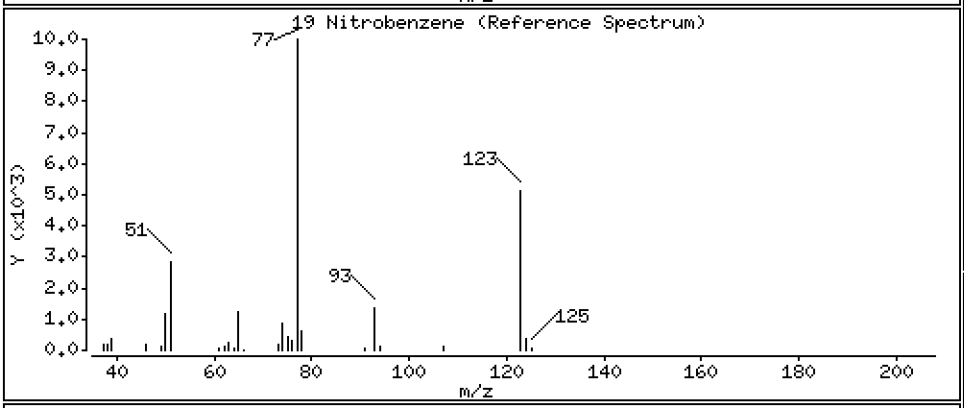
Concentration: 0.2230 ug/mL

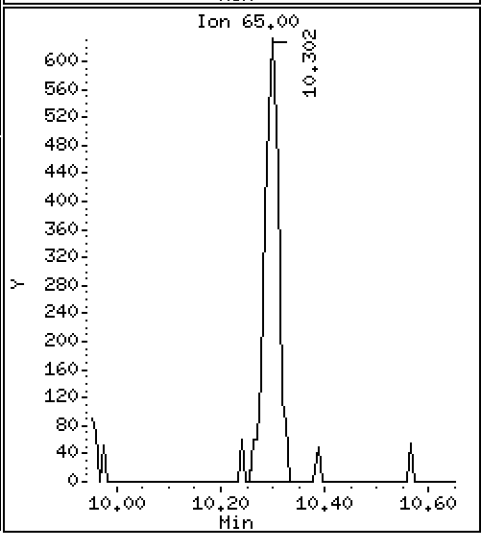


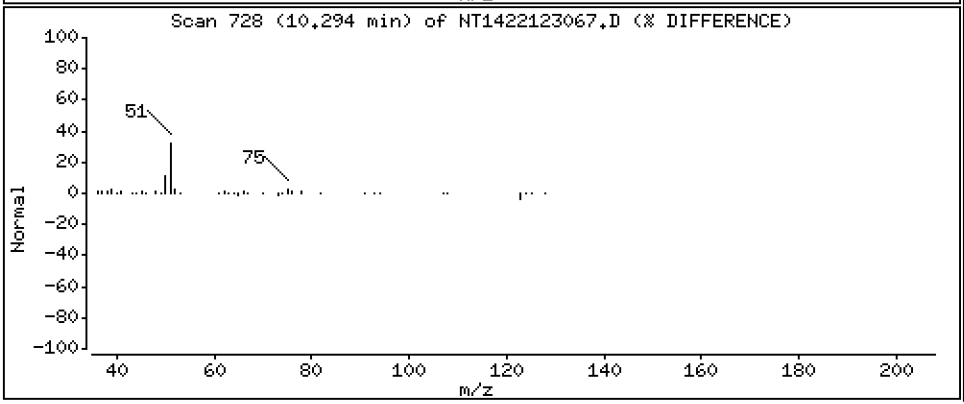












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

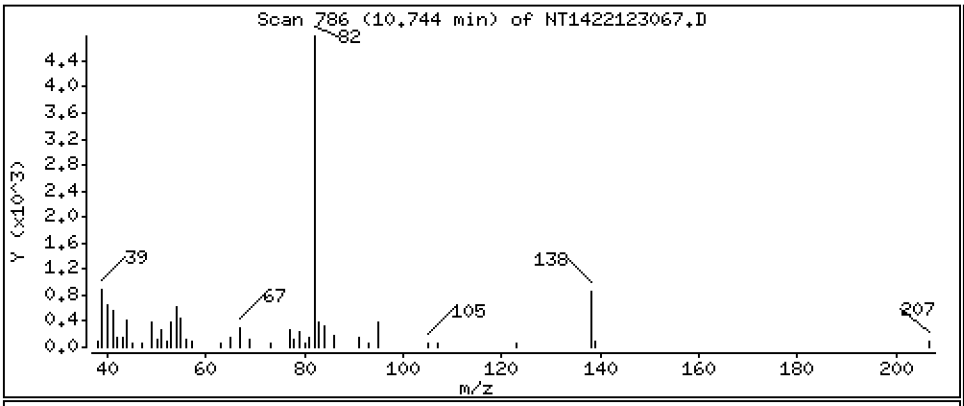
Operator: VTS

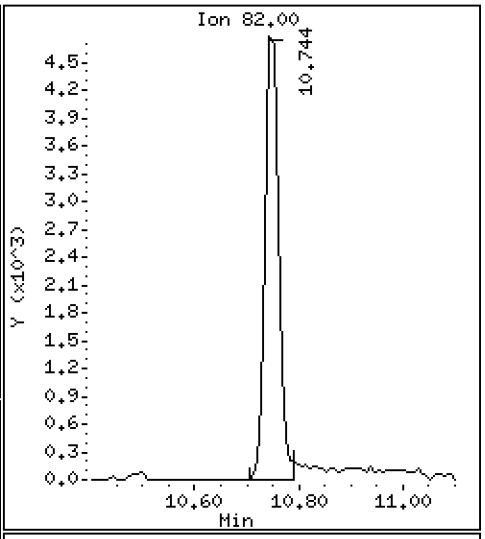
Column phase: ZB-5msi

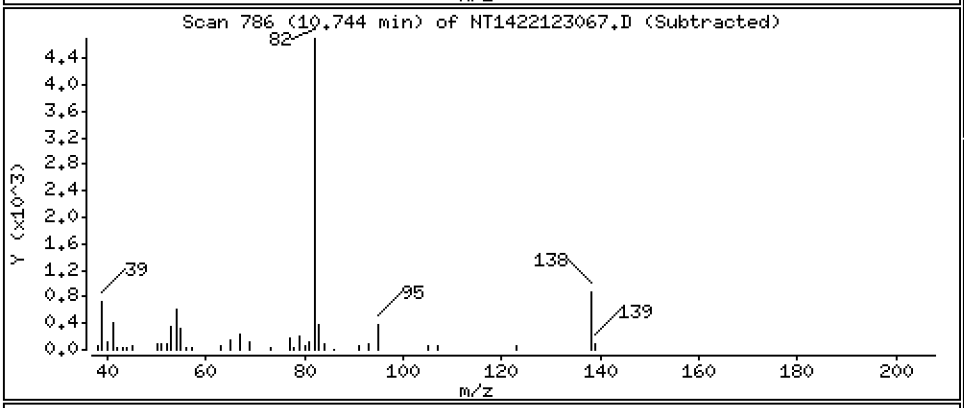
Column diameter: 0.25

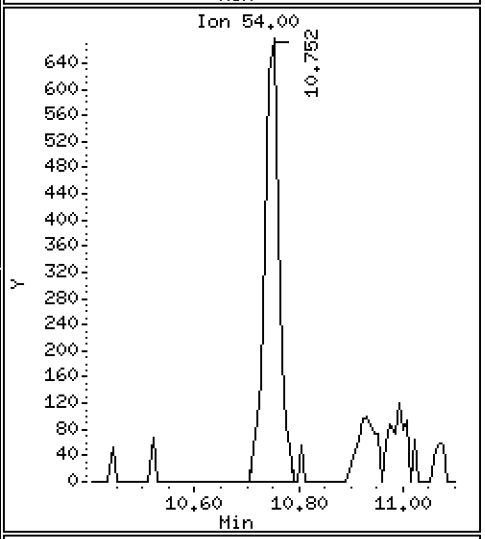
20 Isophorone

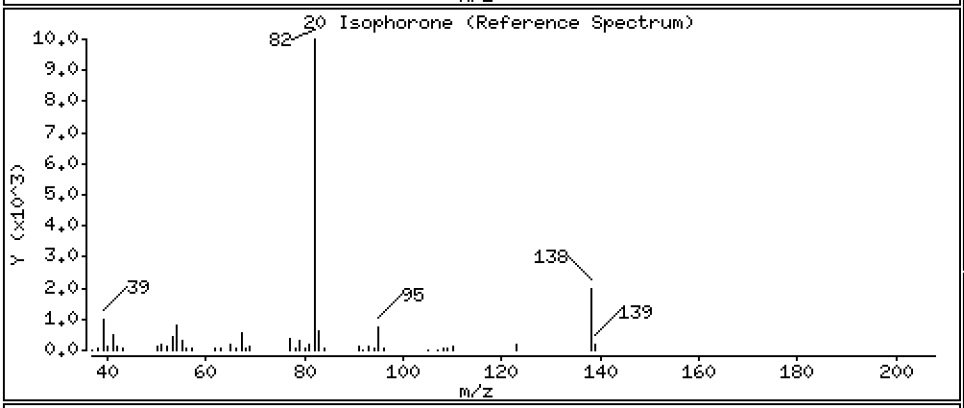
Concentration: 0.1972 ug/mL

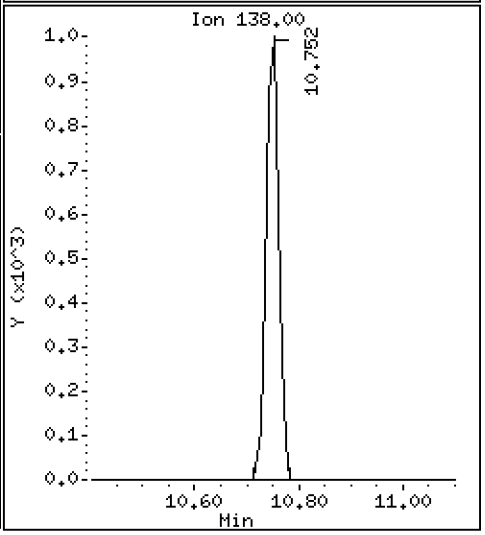


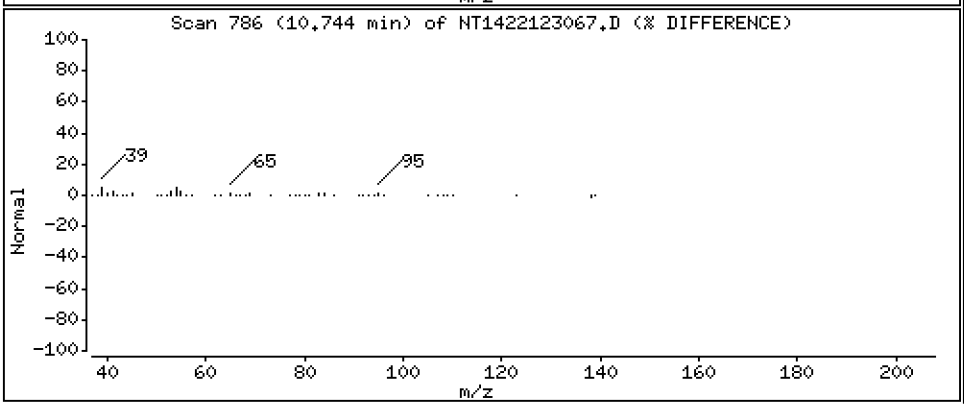












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

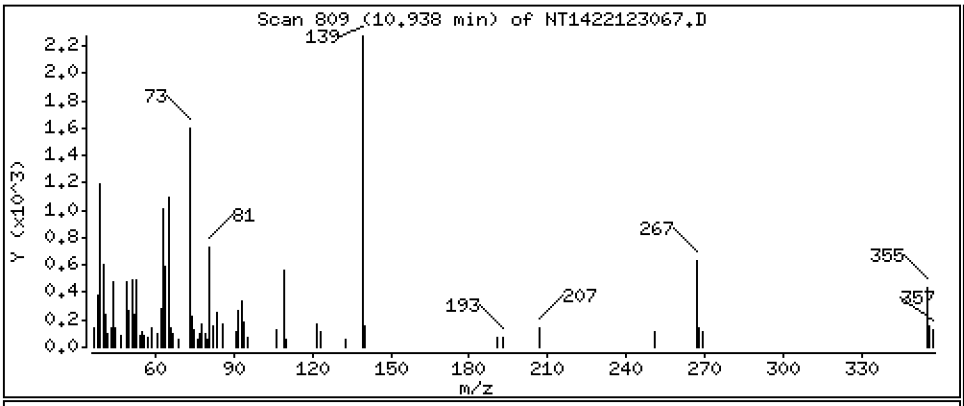
Operator: VTS

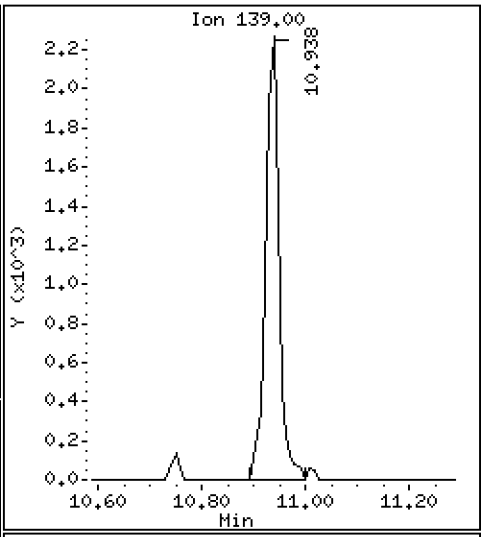
Column phase: ZB-5msi

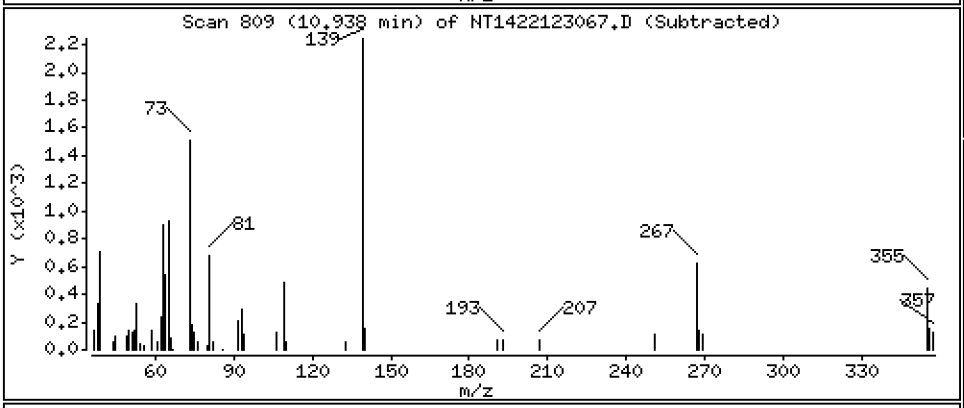
Column diameter: 0.25

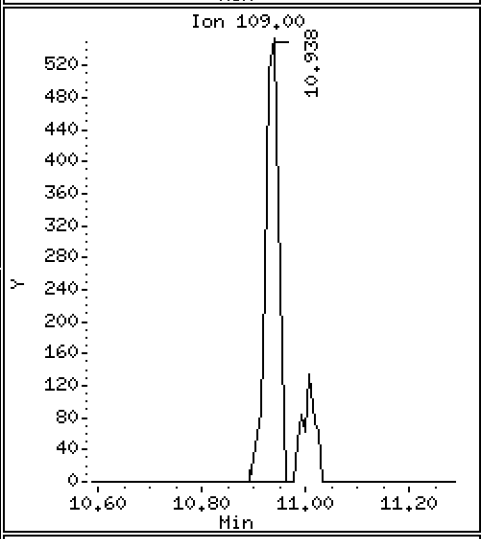
21 2-Nitrophenol

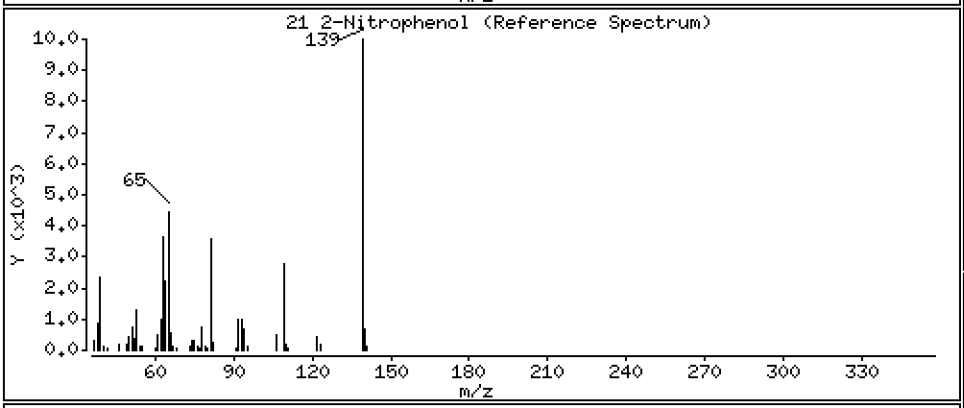
Concentration: 0.2116 ug/mL

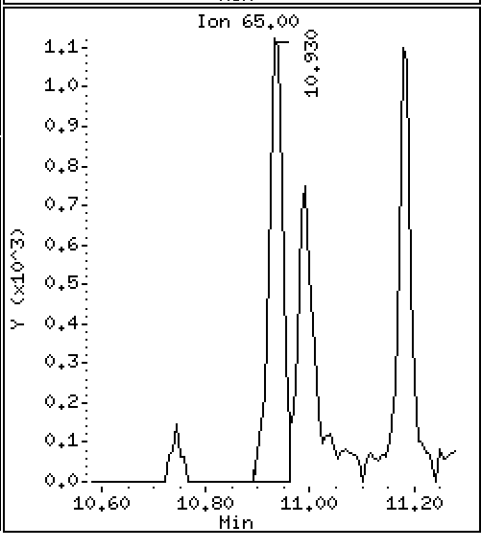


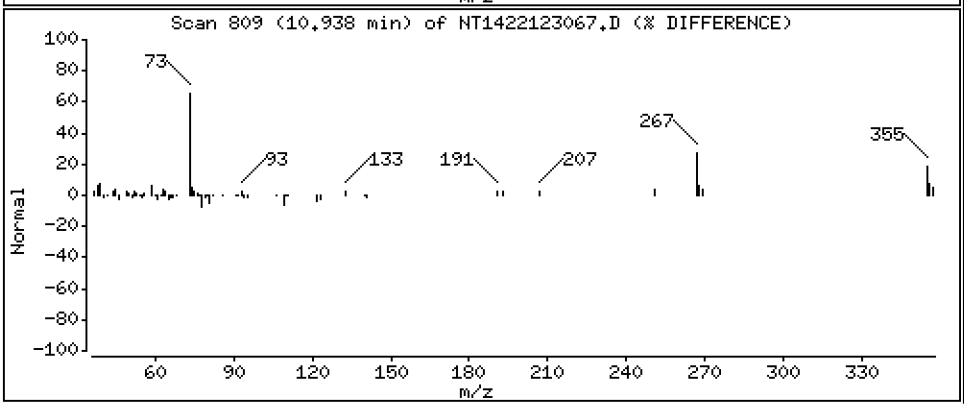












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

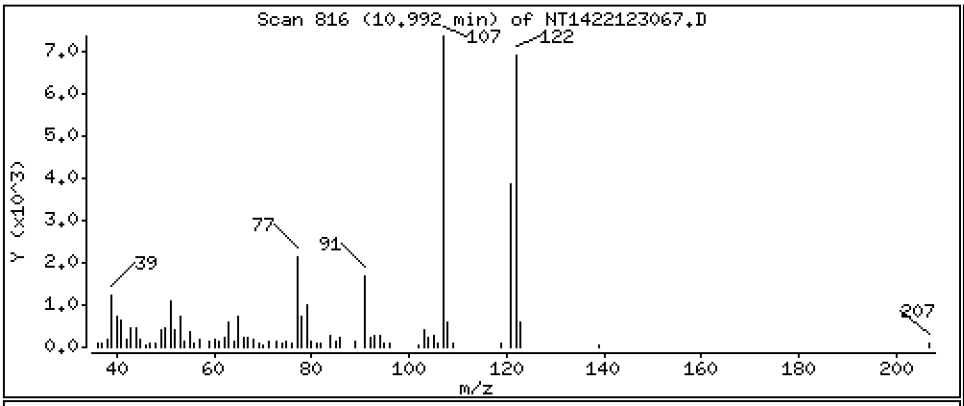
Operator: VTS

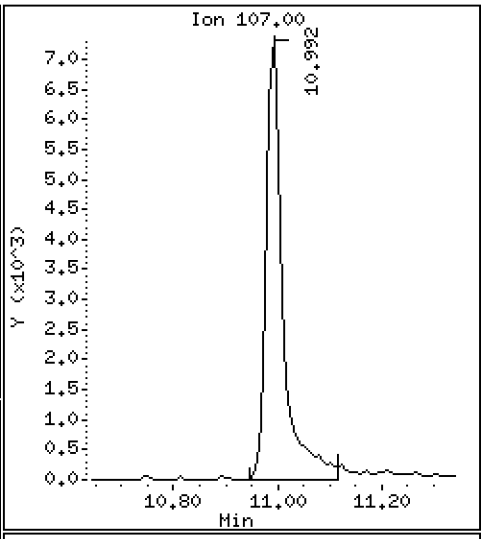
Column phase: ZB-5msi

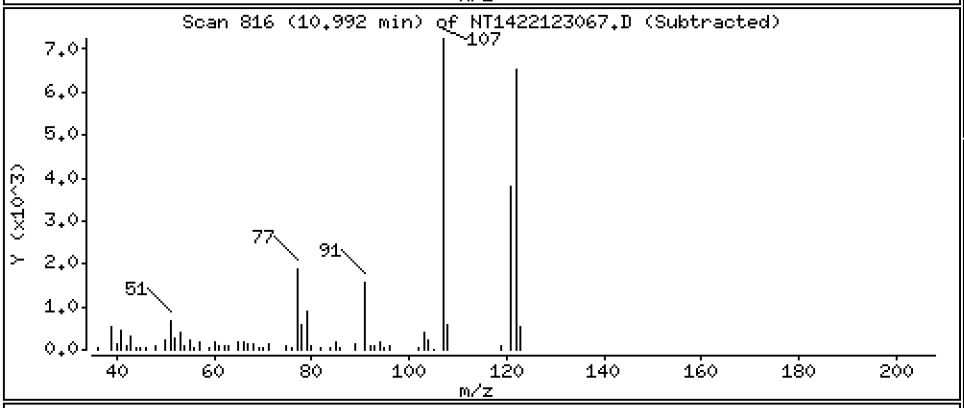
Column diameter: 0.25

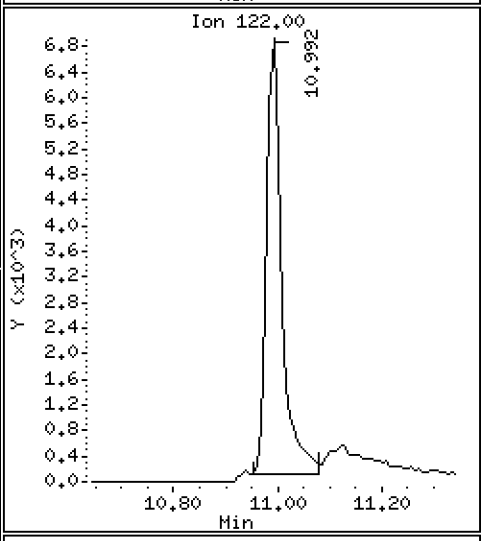
22 2,4-Dimethylphenol

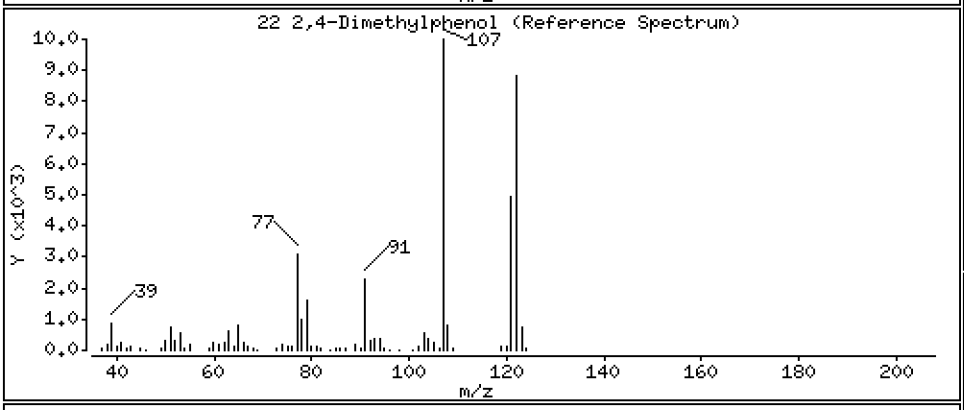
Concentration: 0.4590 ug/mL

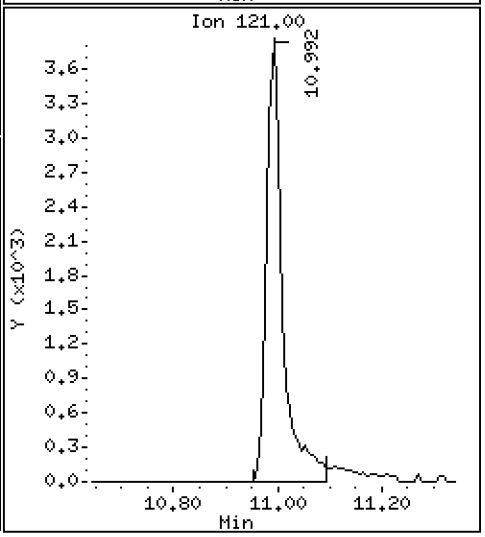


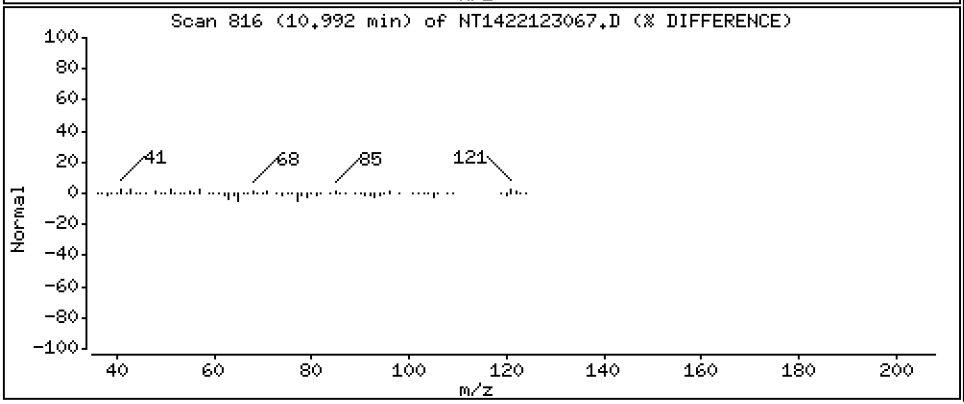












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

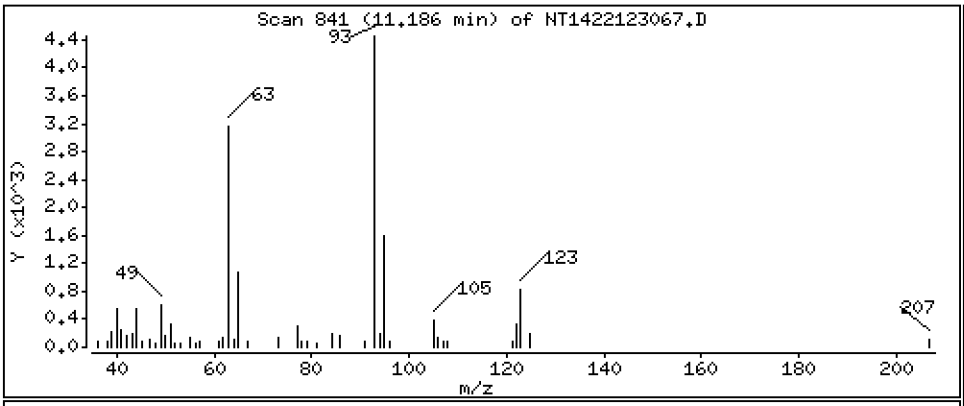
Operator: VTS

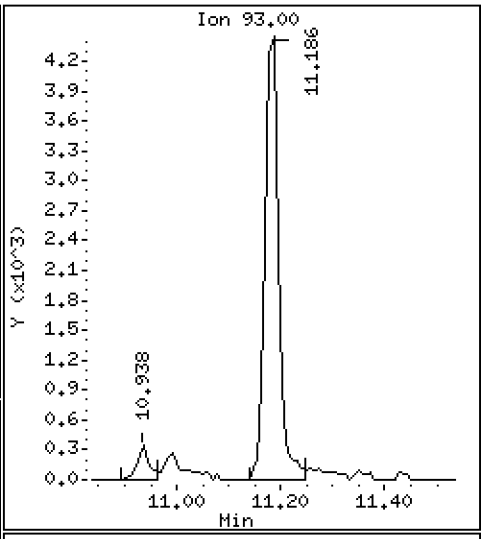
Column phase: ZB-5msi

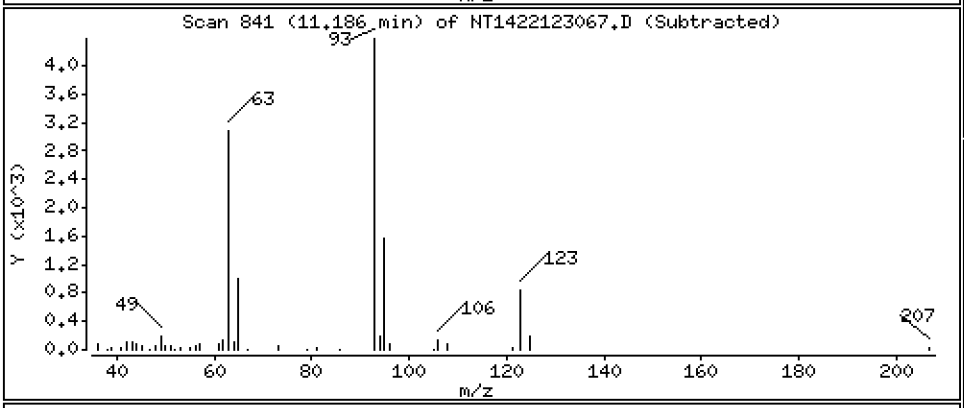
Column diameter: 0.25

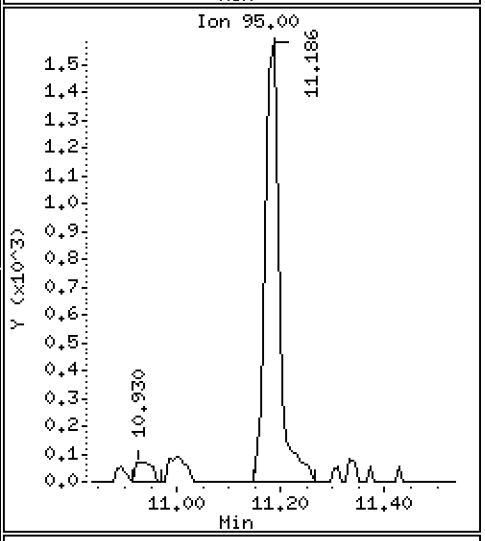
23 Bis(2-Chloroethoxy)methane

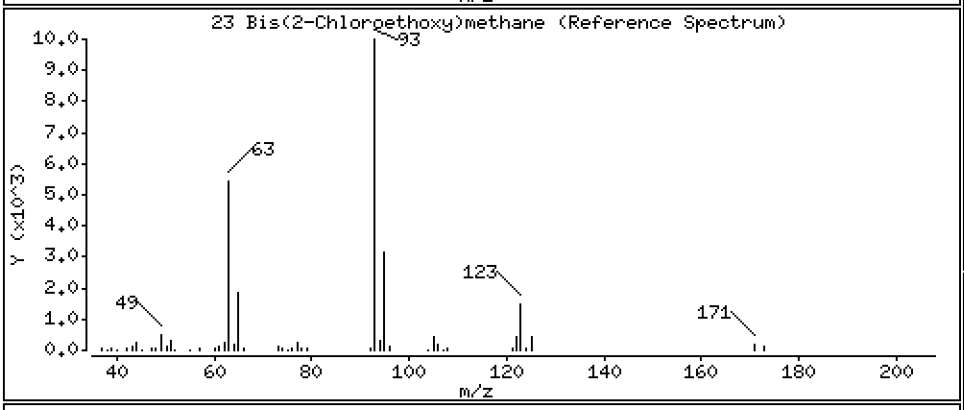
Concentration: 0.2359 ug/mL

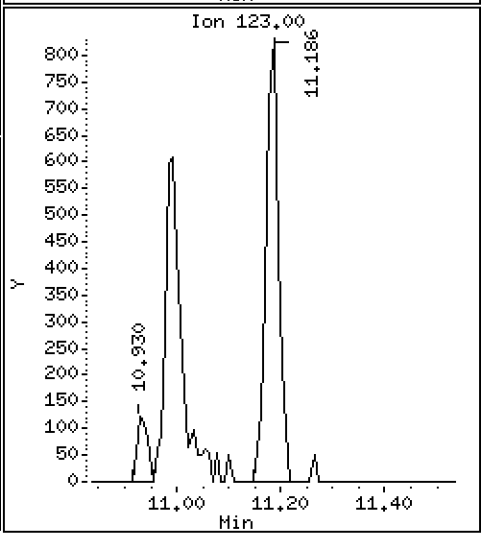


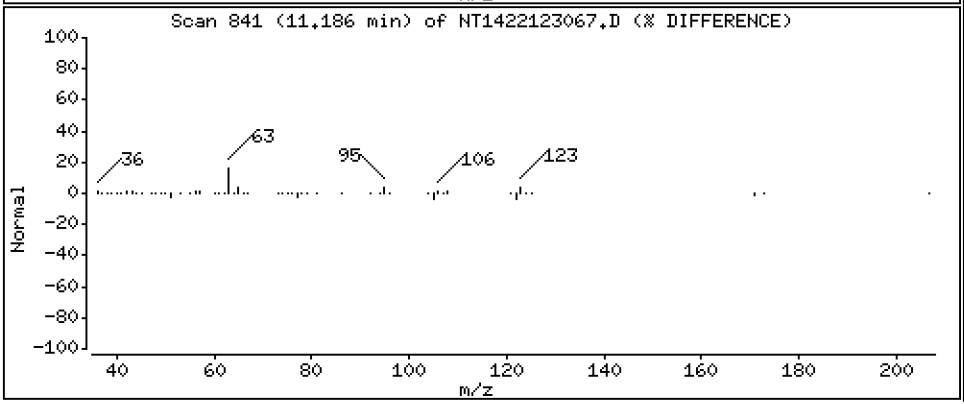












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

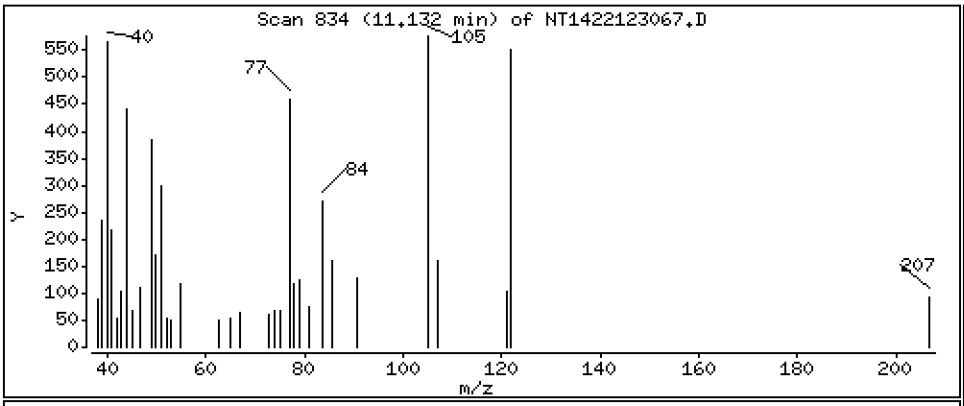
Operator: VTS

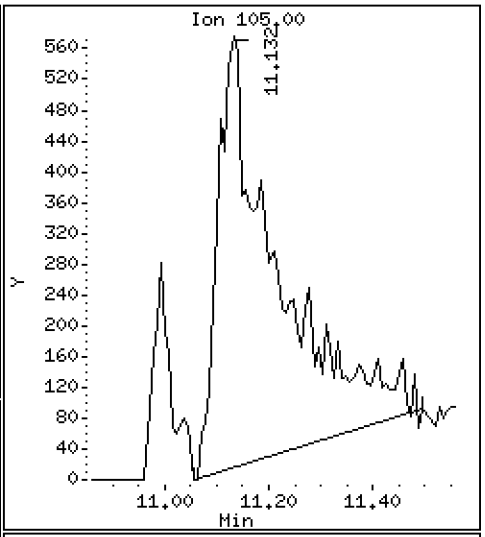
Column phase: ZB-5msi

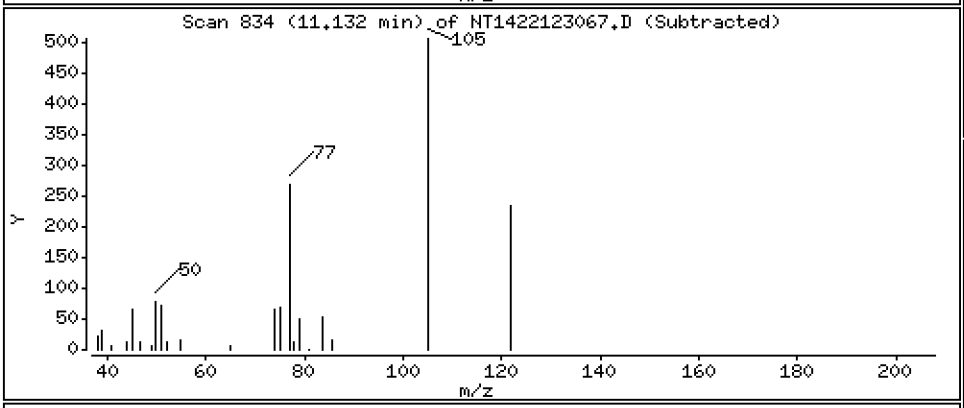
Column diameter: 0.25

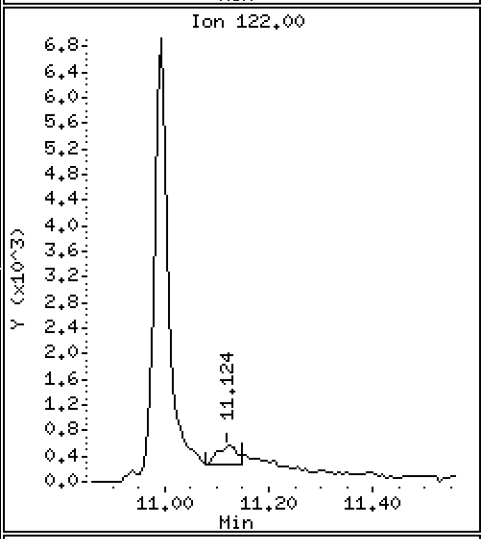
24 Benzoic acid

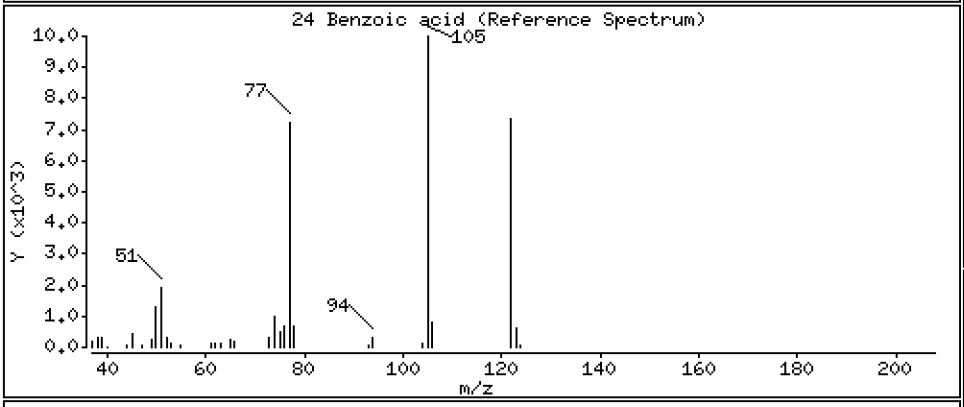
Concentration: 0.2097 ug/mL

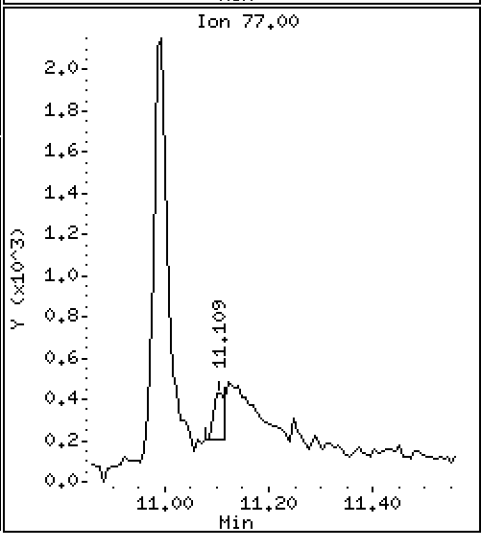


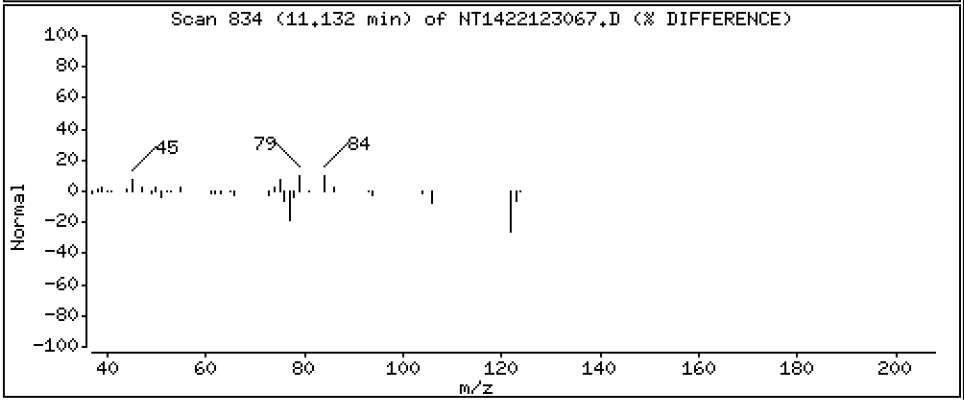












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

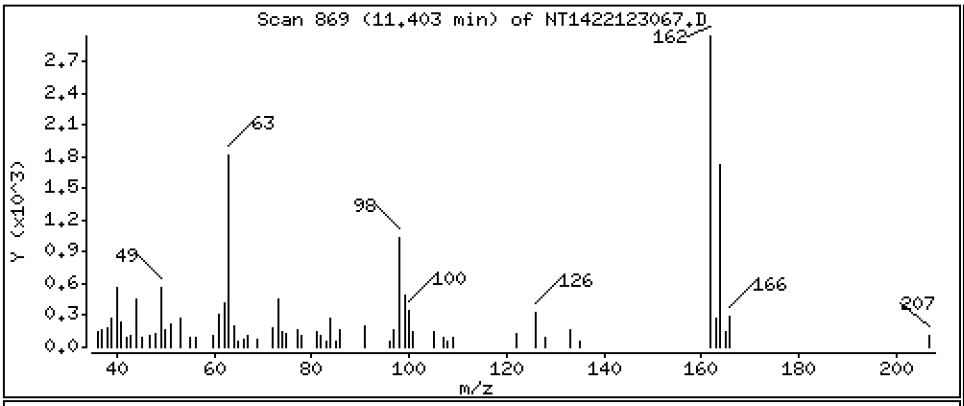
Operator: VTS

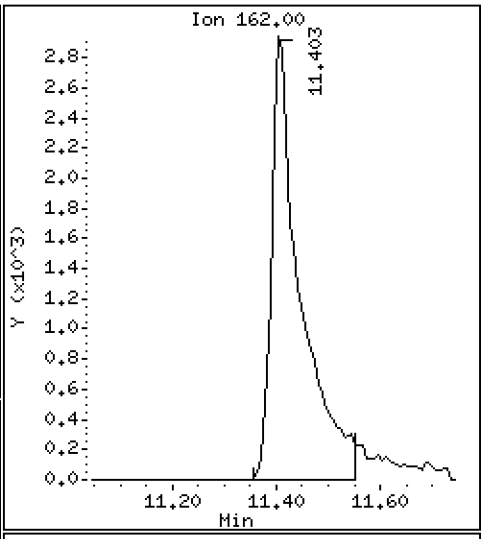
Column phase: ZB-5msi

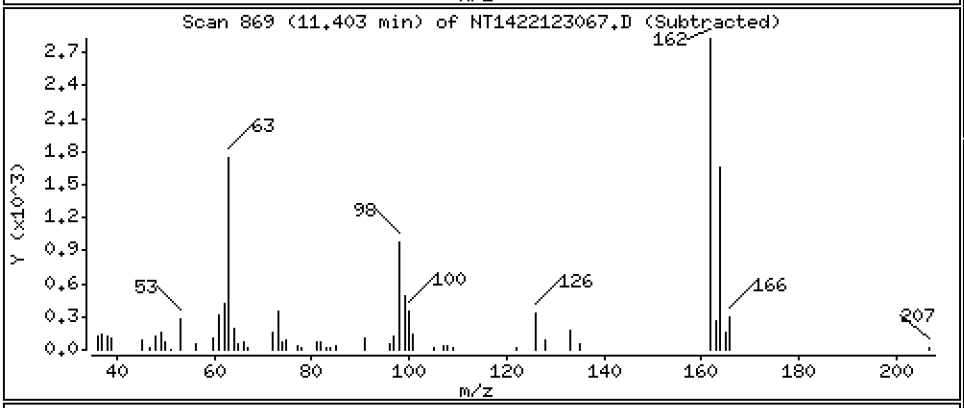
Column diameter: 0.25

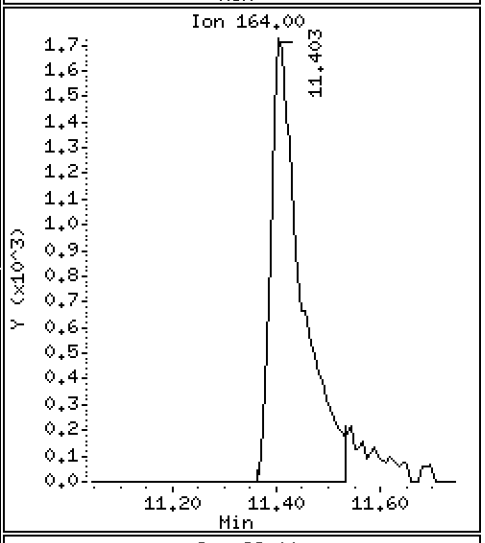
25 2,4-Dichlorophenol

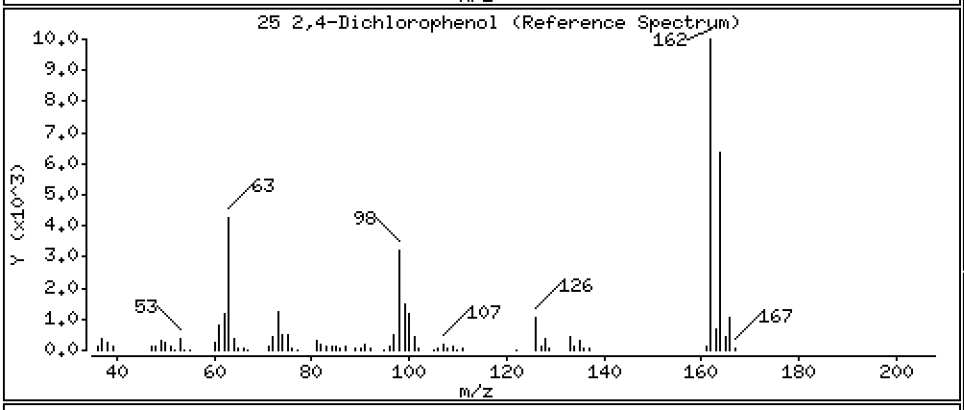
Concentration: 0.4100 ug/mL

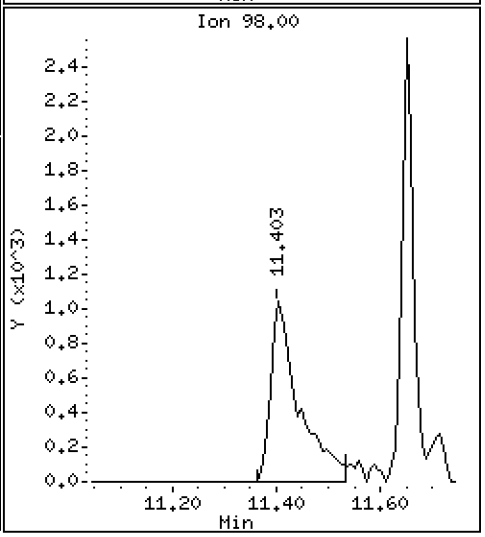


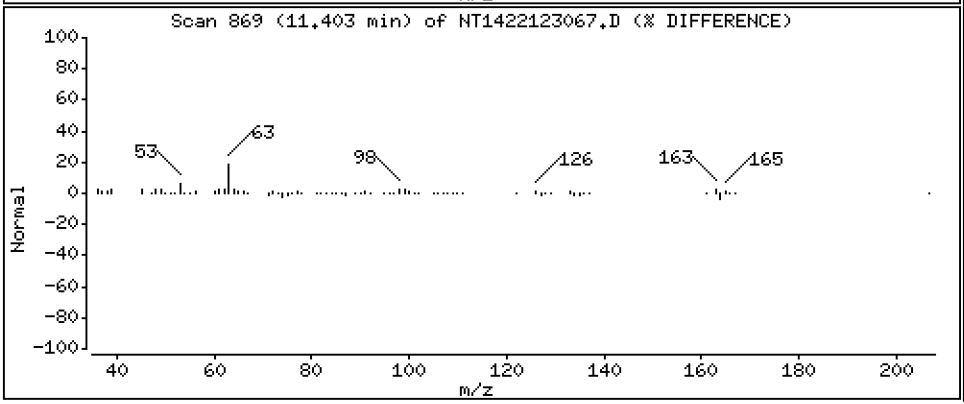












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

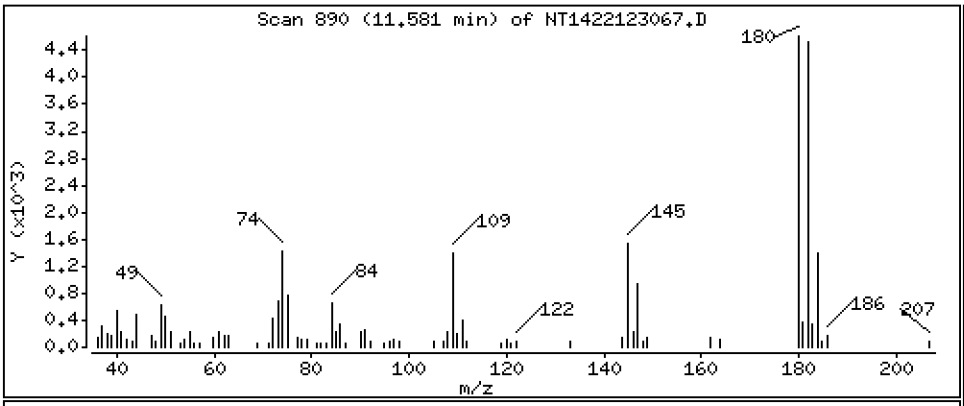
Operator: VTS

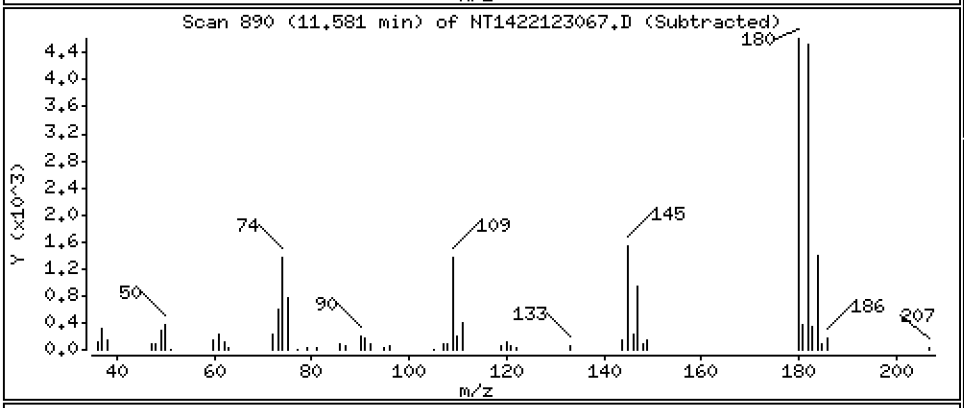
Column phase: ZB-5msi

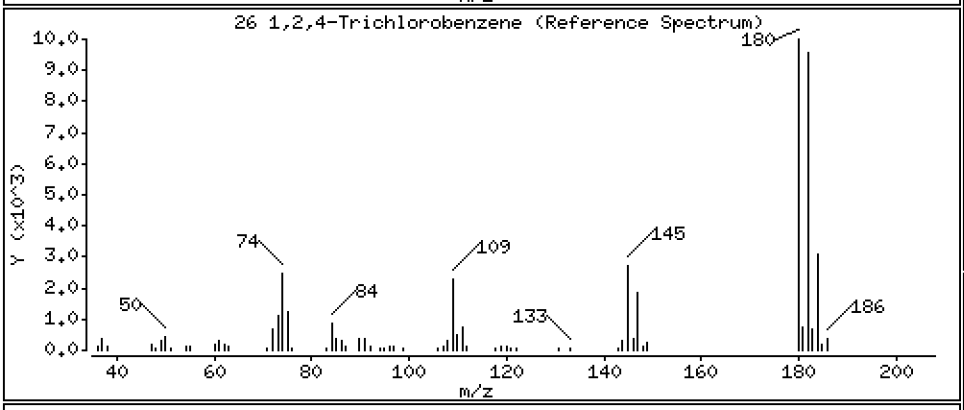
Column diameter: 0.25

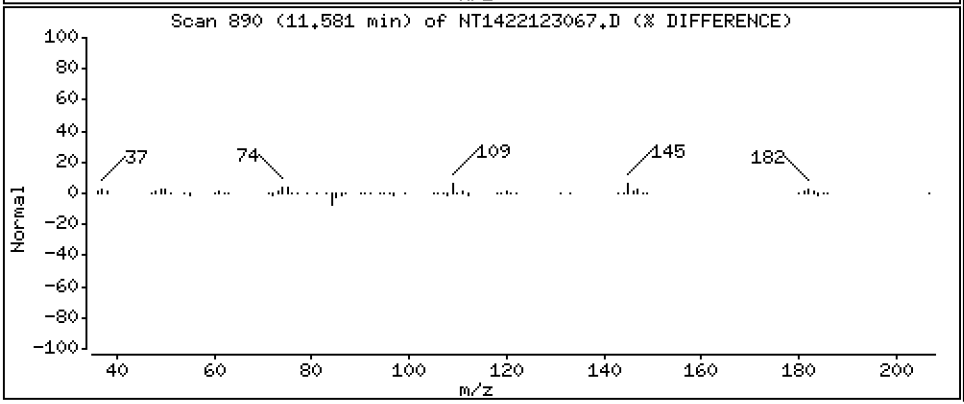
26 1,2,4-Trichlorobenzene

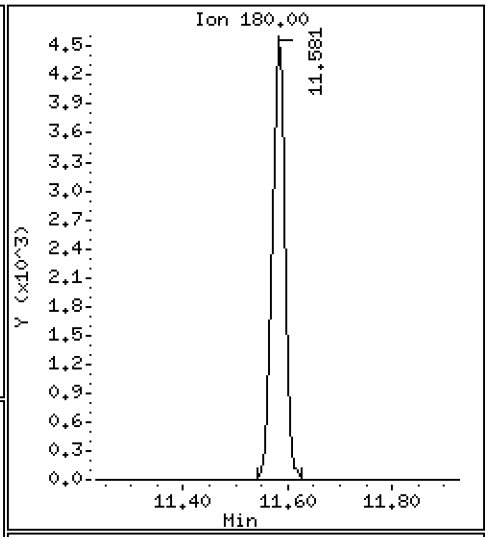
Concentration: 0.2401 ug/mL

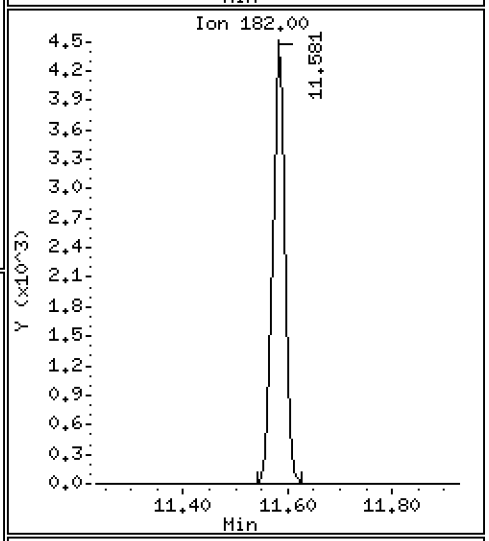


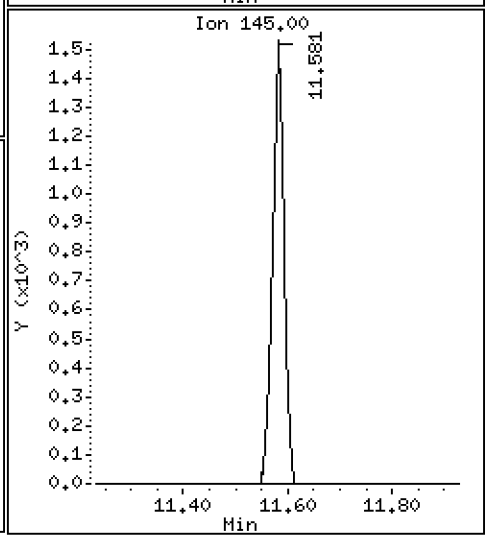












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

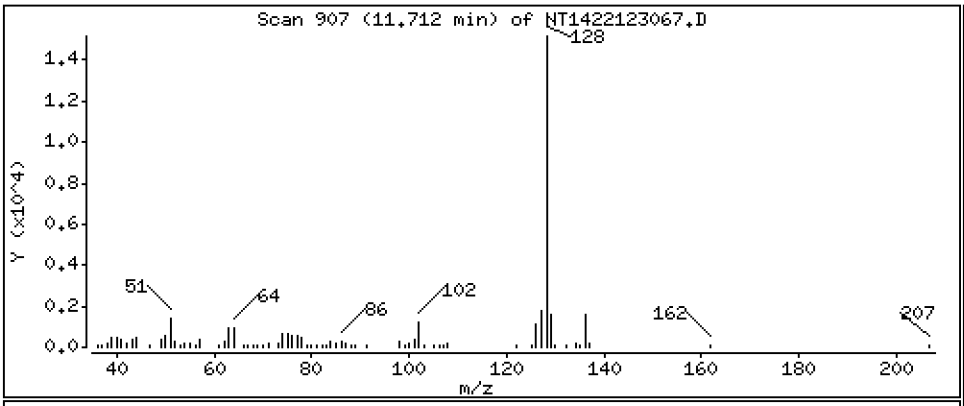
Operator: VTS

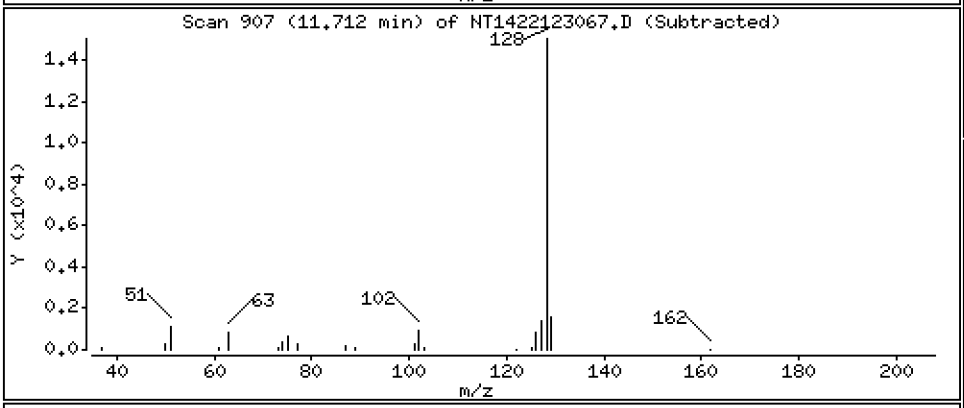
Column phase: ZB-5msi

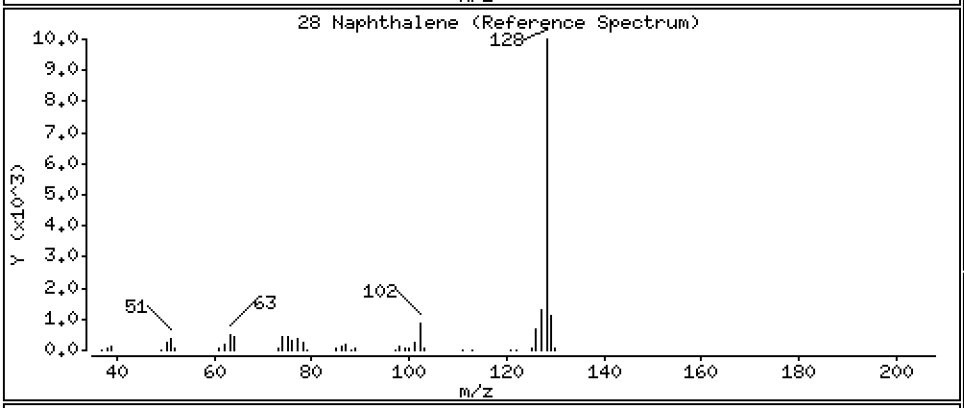
Column diameter: 0.25

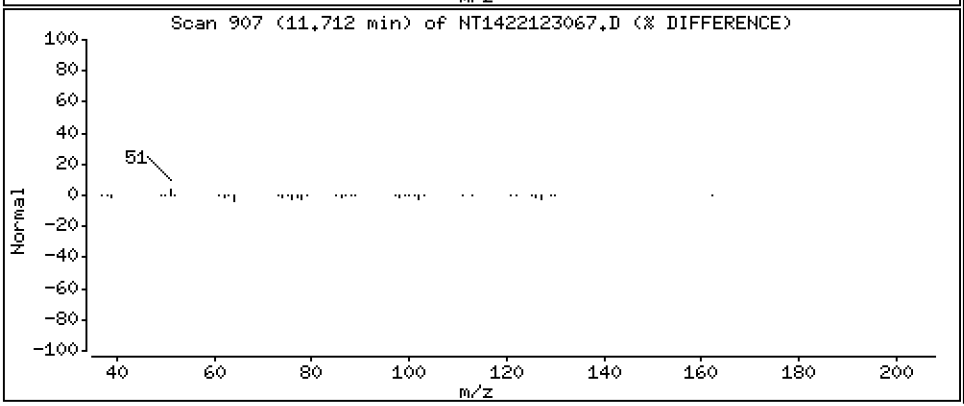
28 Naphthalene

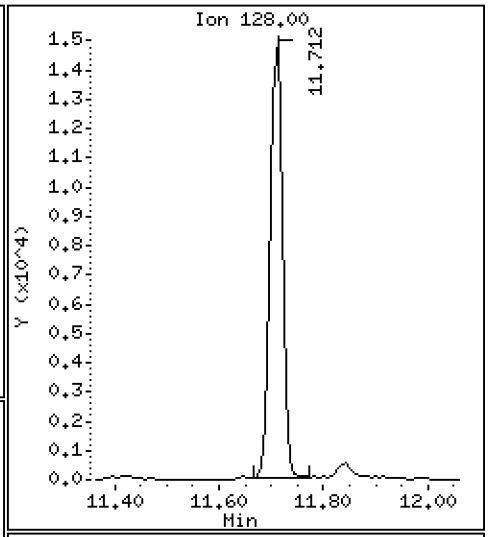
Concentration: 0.2355 ug/mL

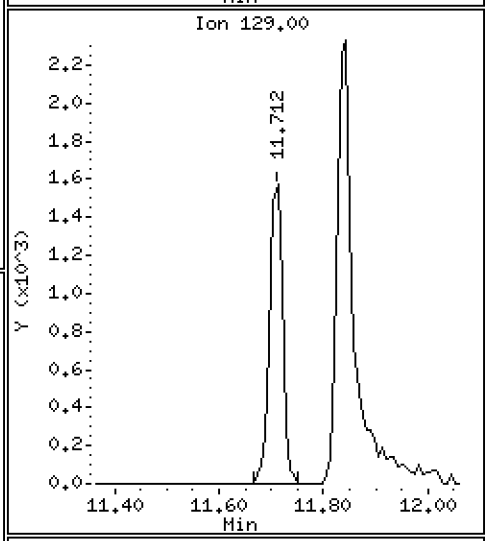


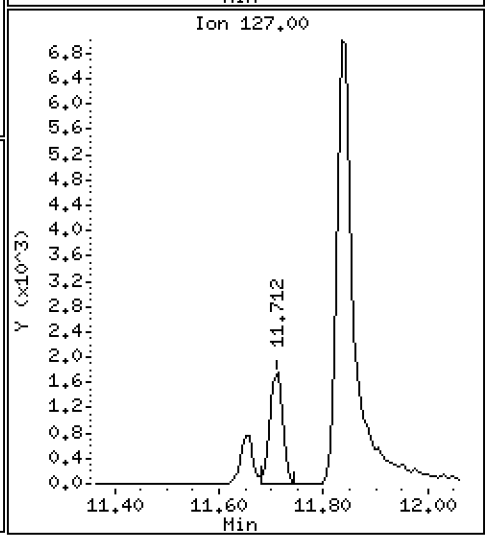












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

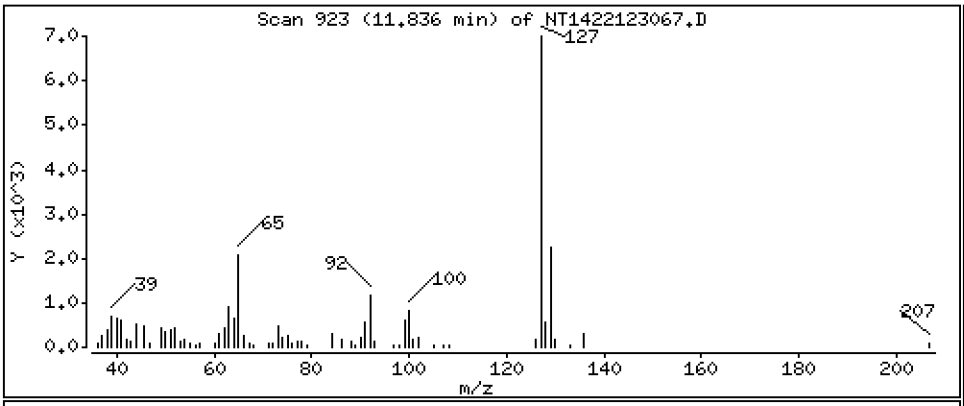
Operator: VTS

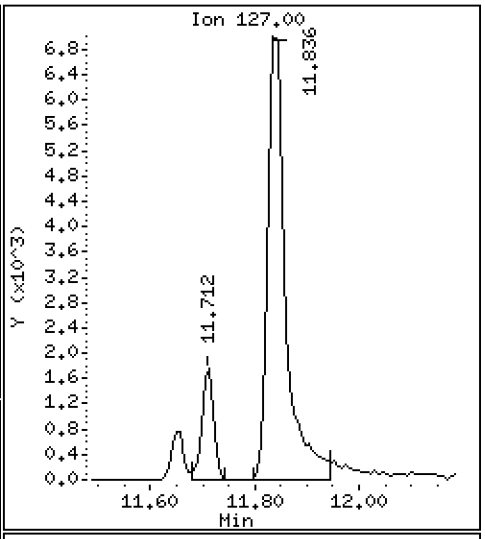
Column phase: ZB-5msi

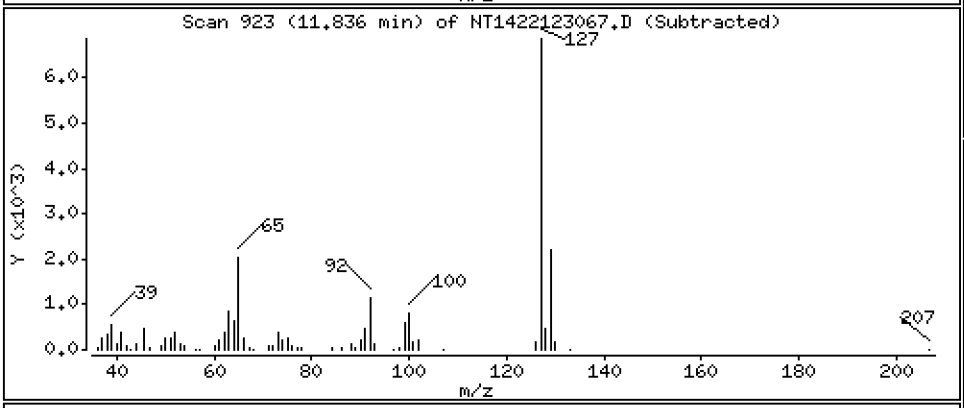
Column diameter: 0.25

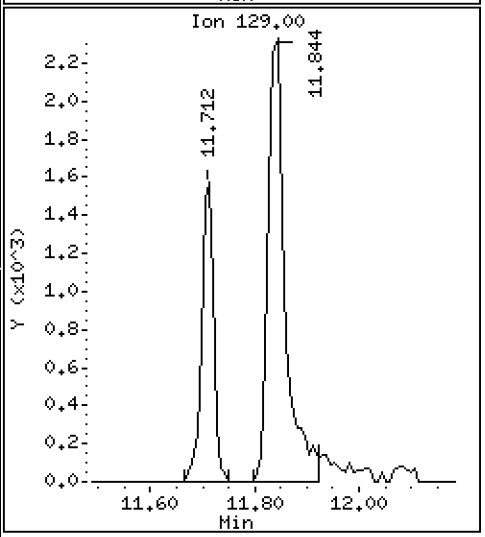
29 4-Chloroaniline

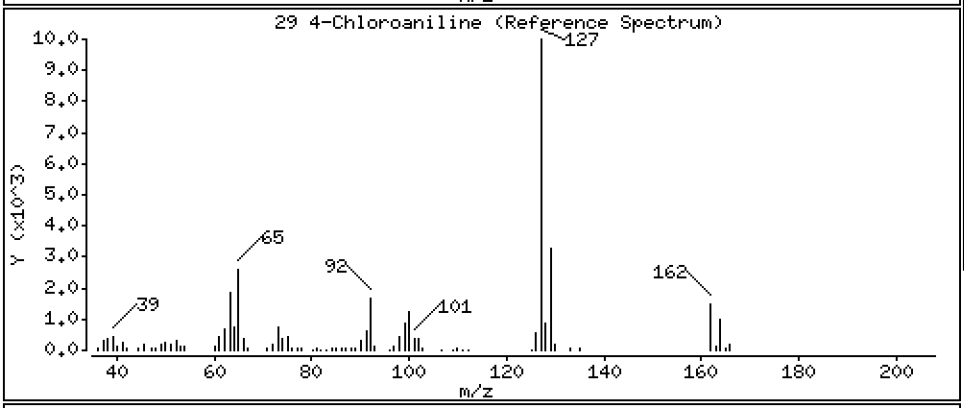
Concentration: 0.4051 ug/mL

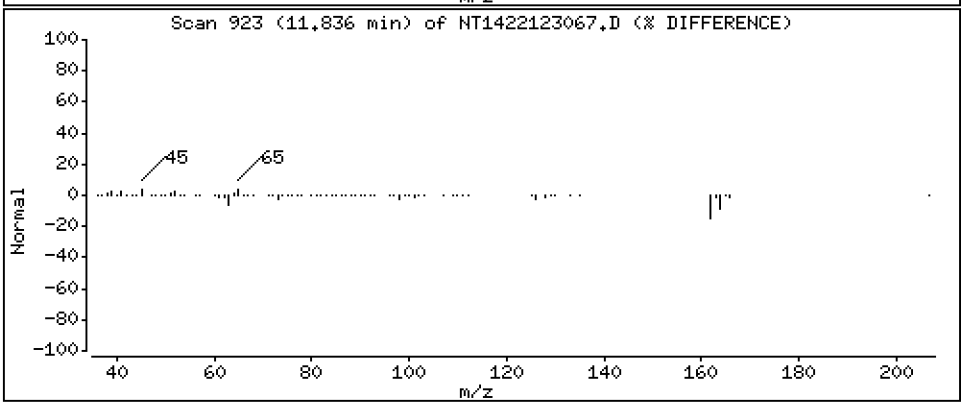












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

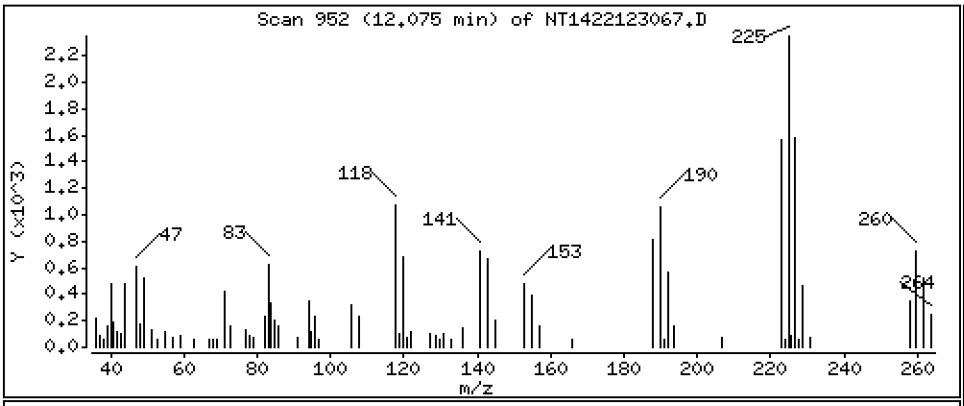
Operator: VTS

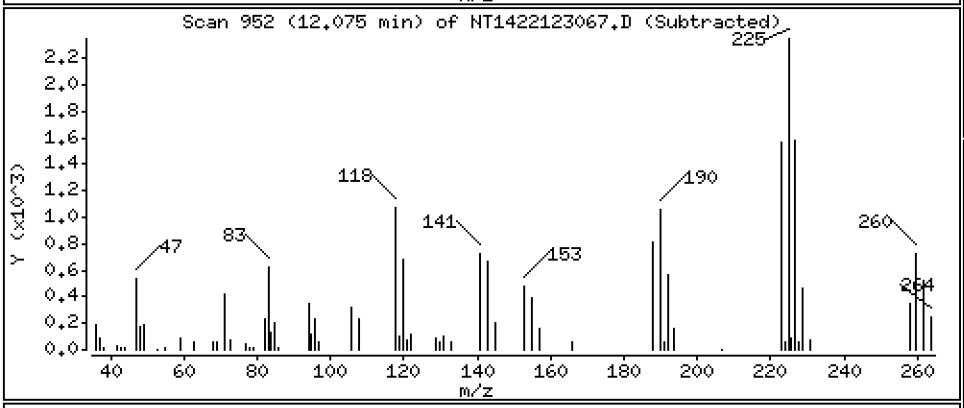
Column phase: ZB-5msi

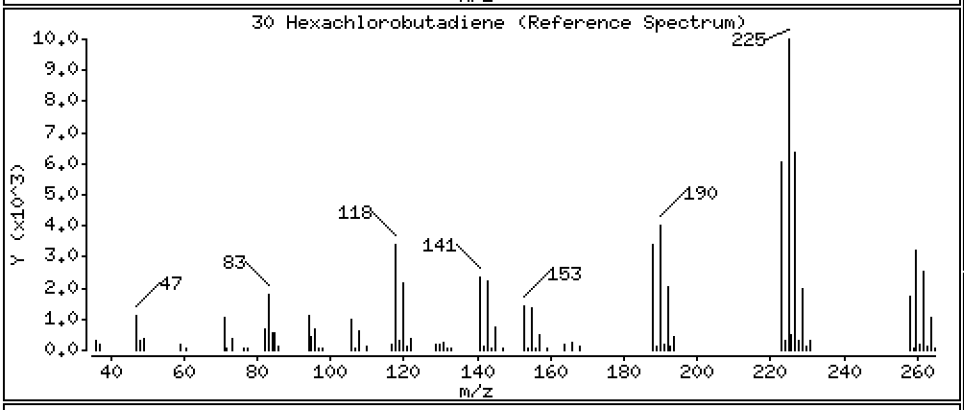
Column diameter: 0.25

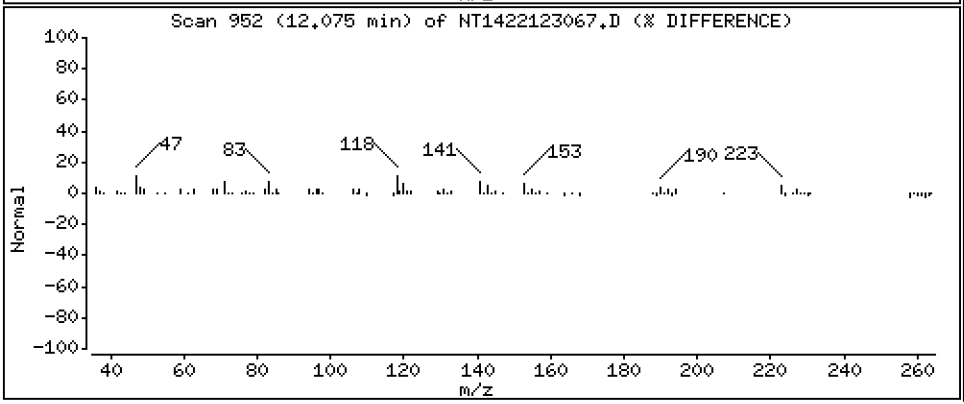
30 Hexachlorobutadiene

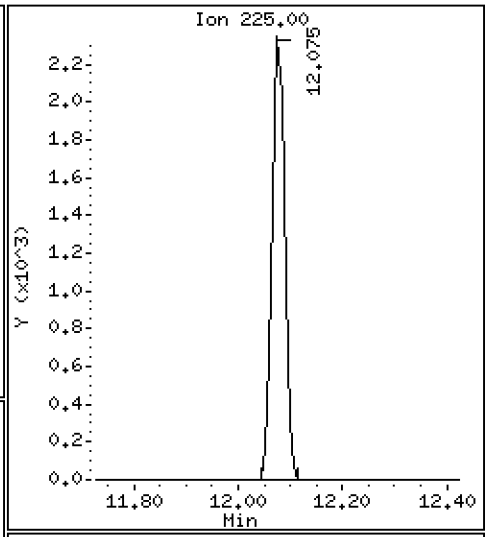
Concentration: 0.2380 ug/mL

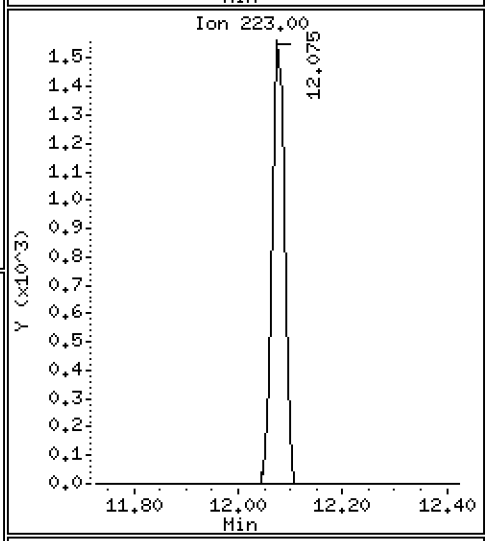


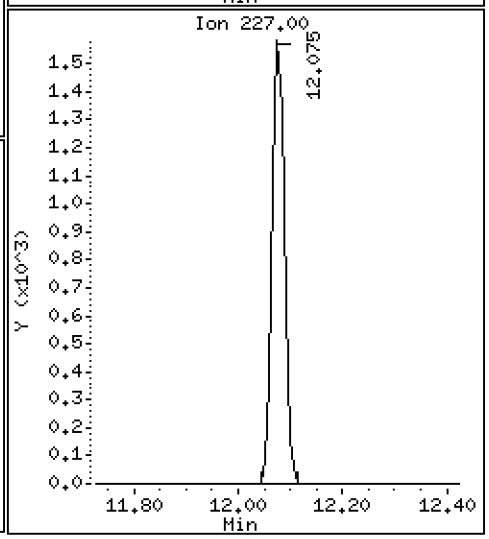












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

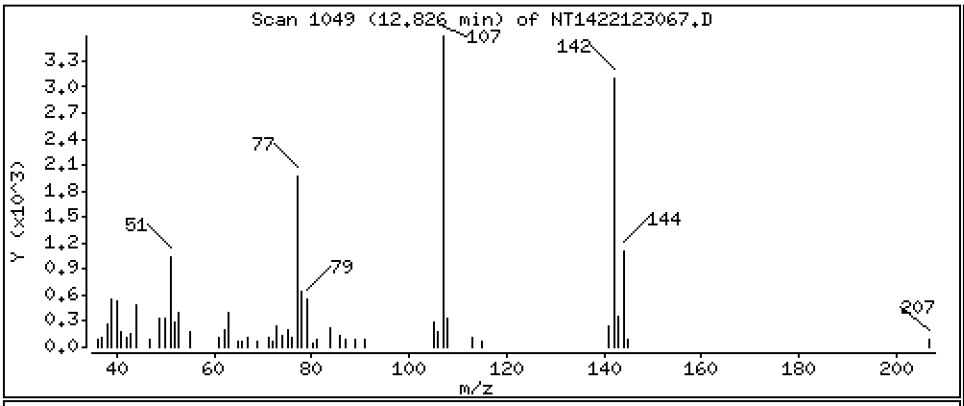
Operator: VTS

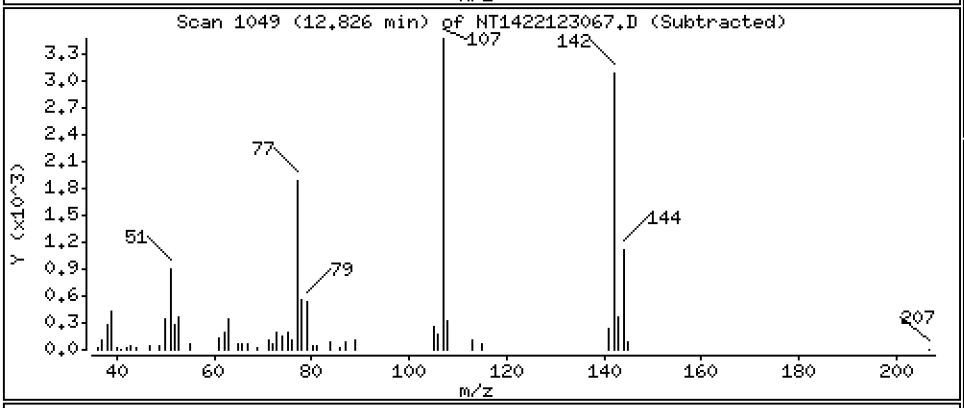
Column phase: ZB-5msi

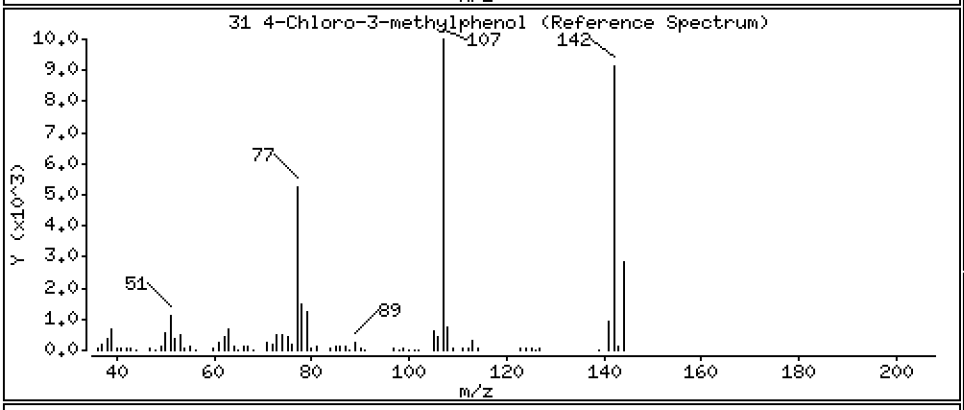
Column diameter: 0.25

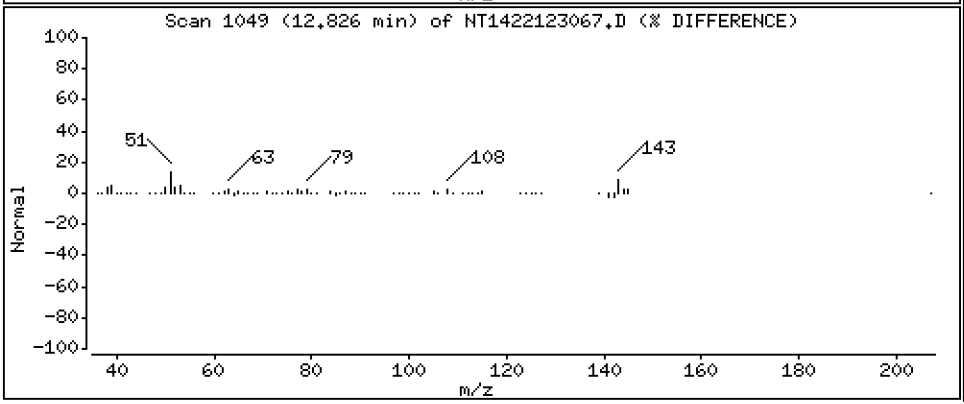
31 4-Chloro-3-methylphenol

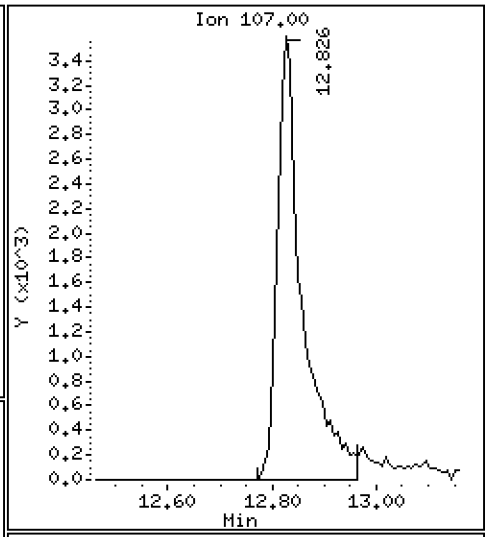
Concentration: 0.4327 ug/mL

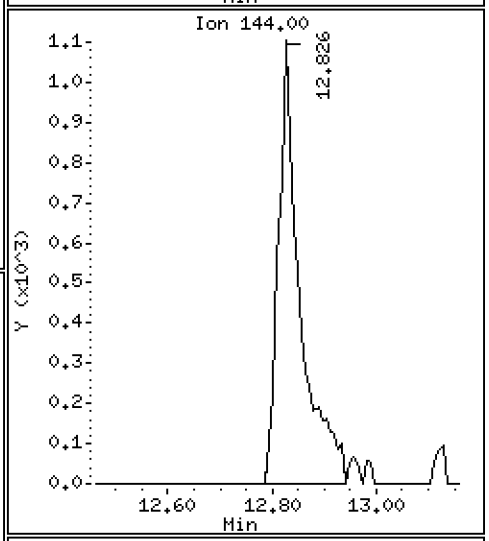


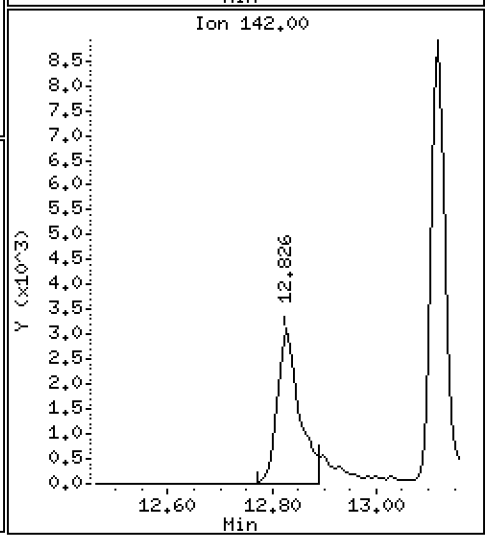












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

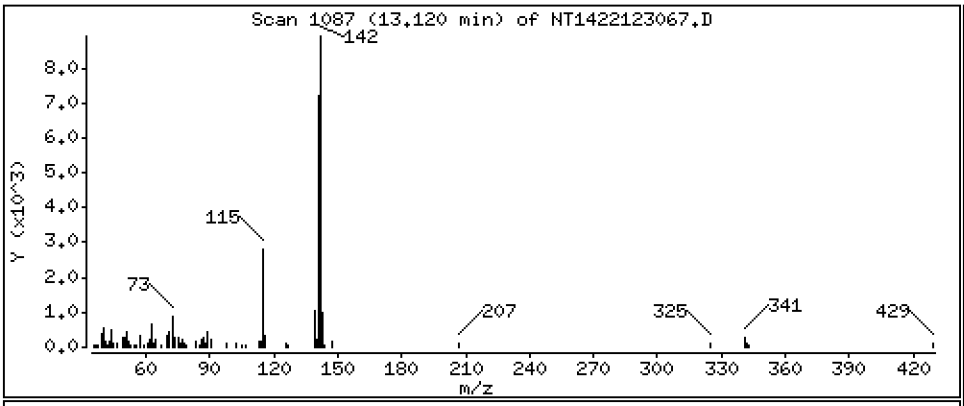
Operator: VTS

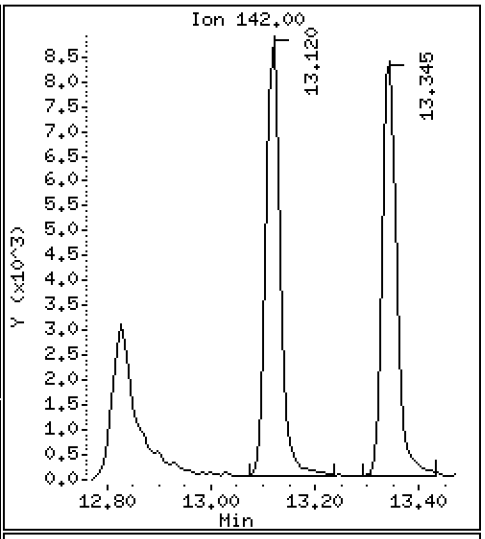
Column phase: ZB-5msi

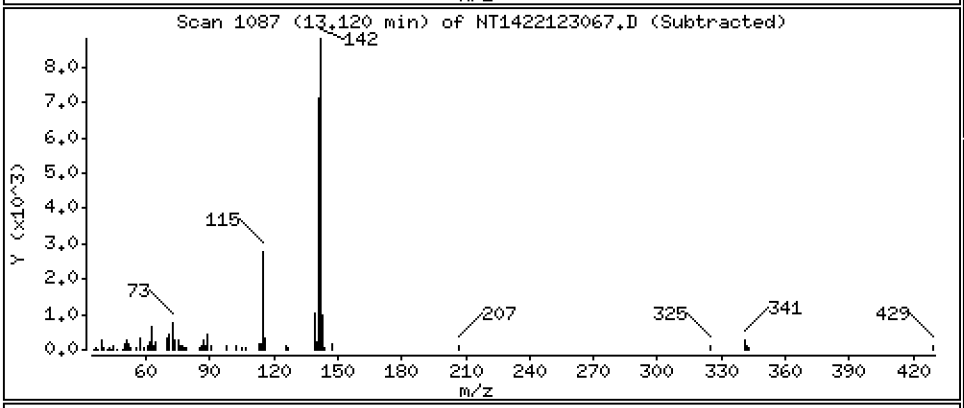
Column diameter: 0.25

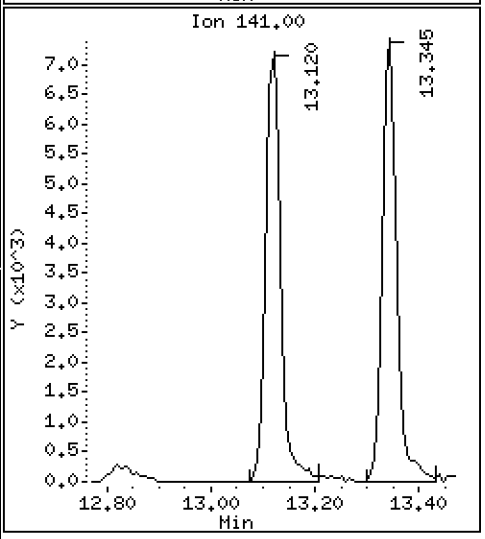
32 2-Methylnaphthalene

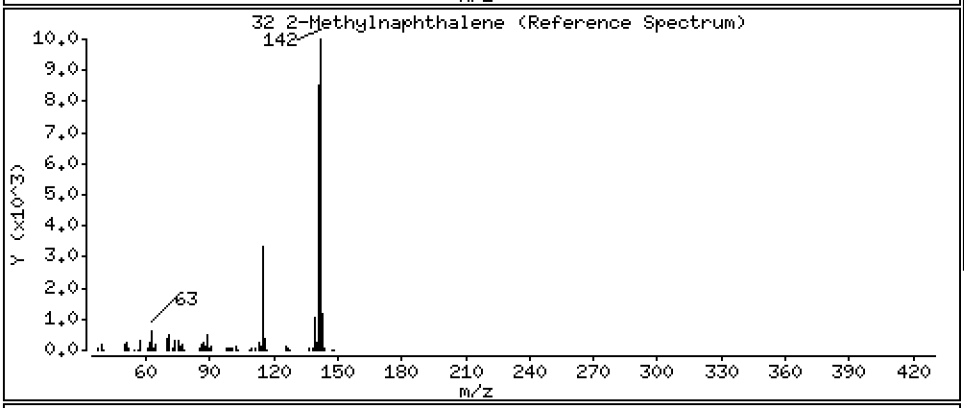
Concentration: 0.2270 ug/mL

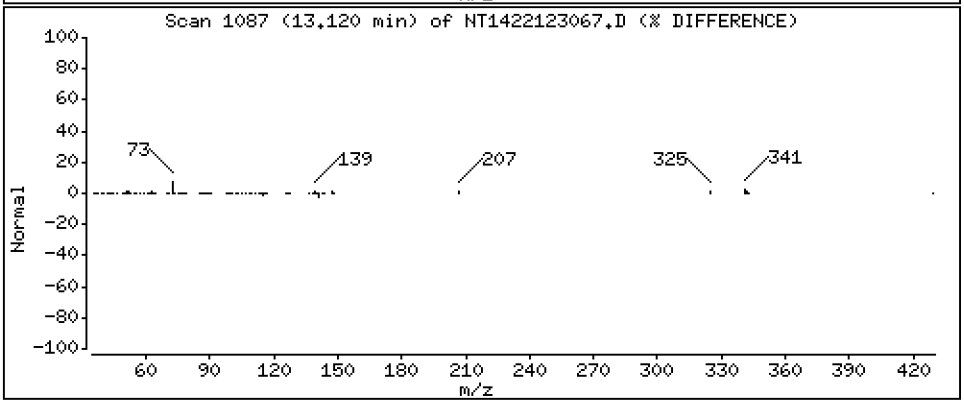












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

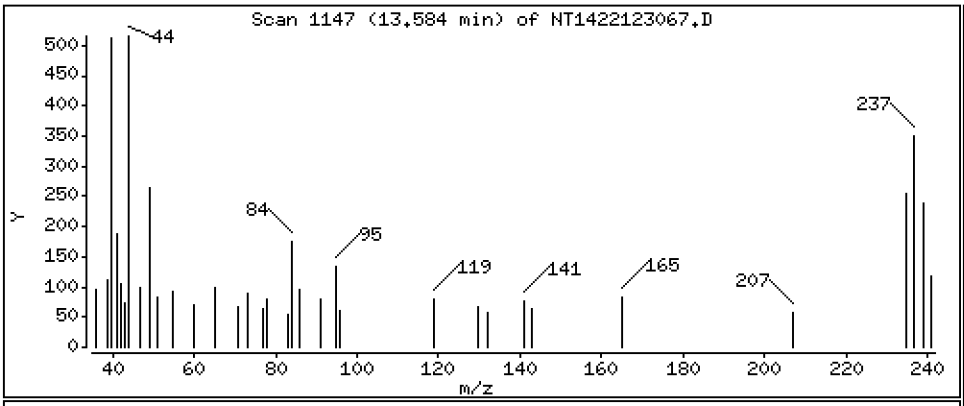
Operator: VTS

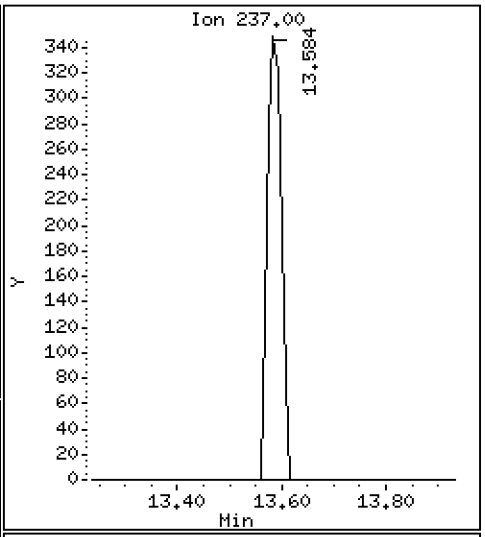
Column phase: ZB-5msi

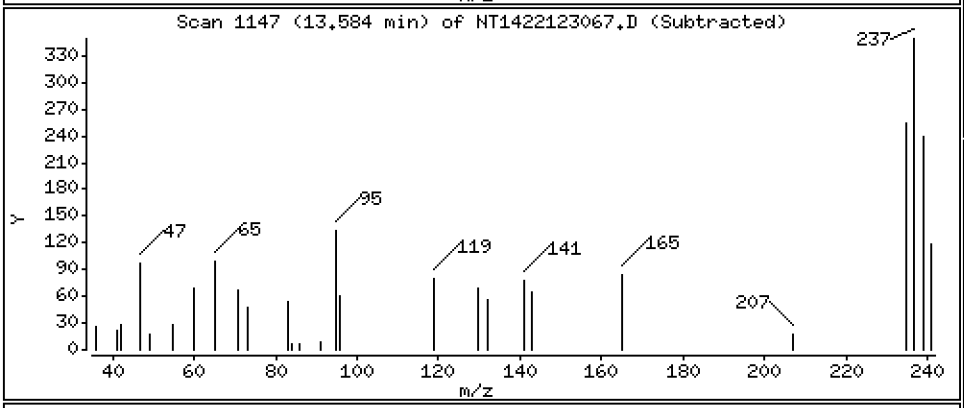
Column diameter: 0.25

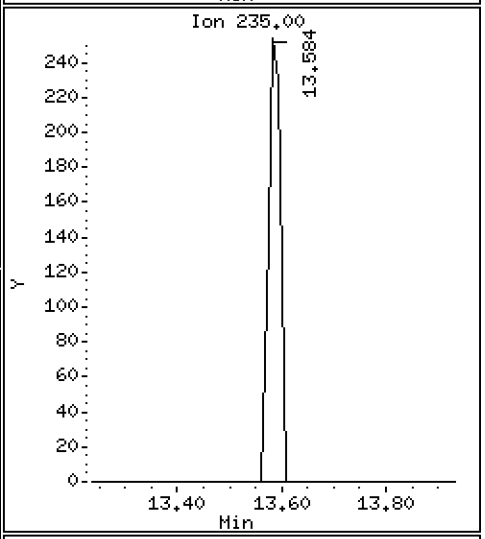
33 Hexachlorocyclopentadiene

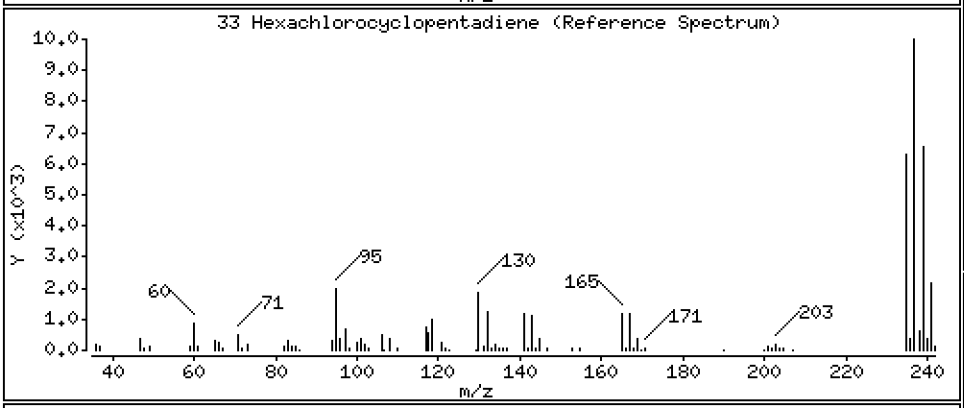
Concentration: 0.04042 ug/mL

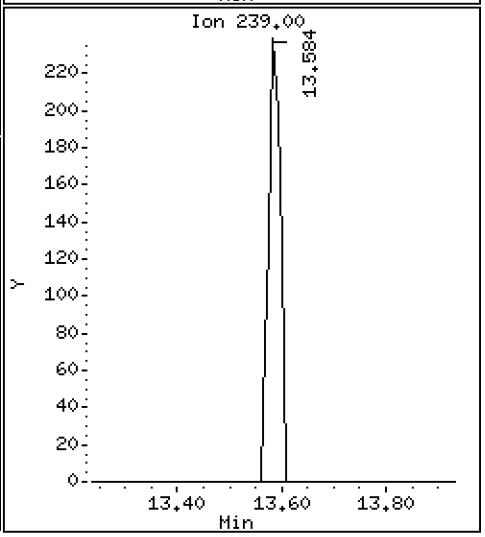


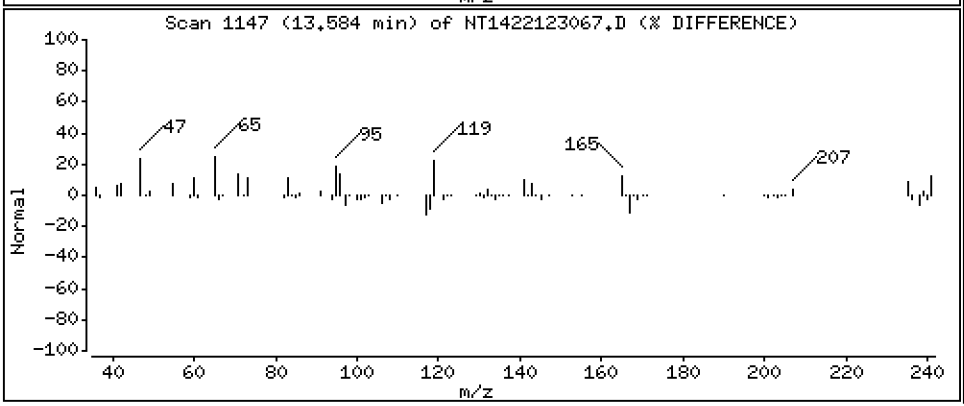












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

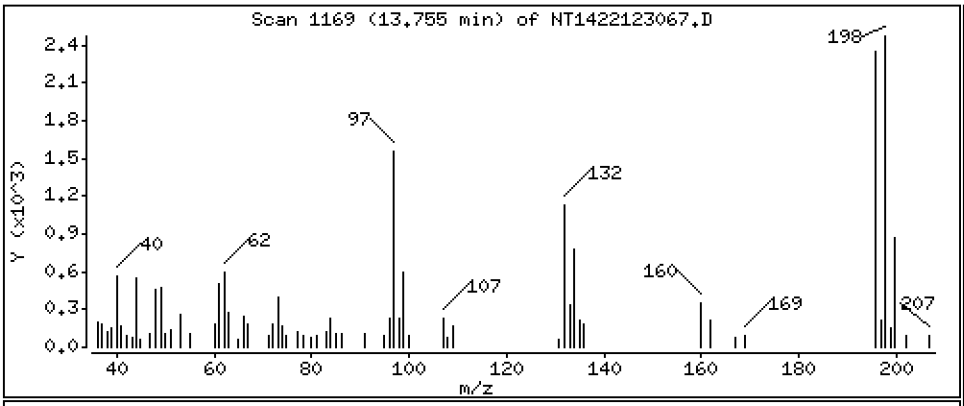
Operator: VTS

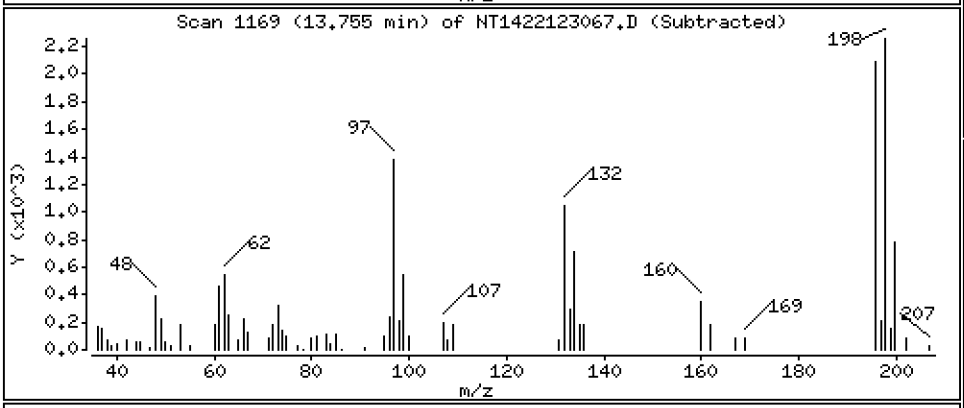
Column phase: ZB-5msi

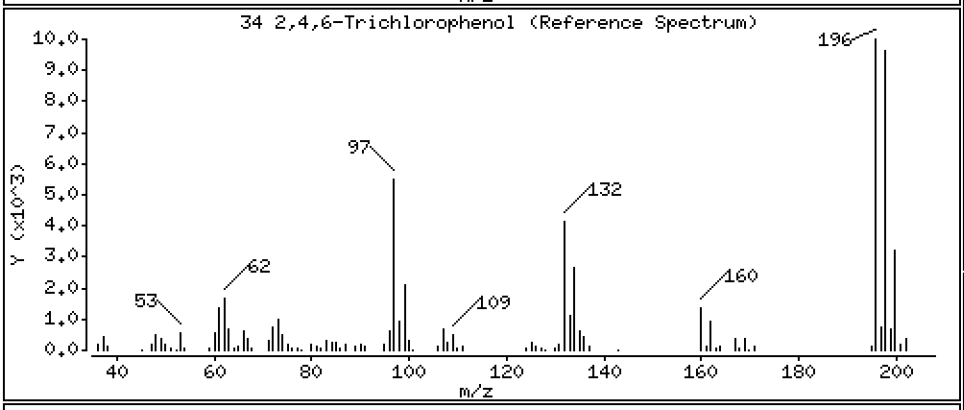
Column diameter: 0.25

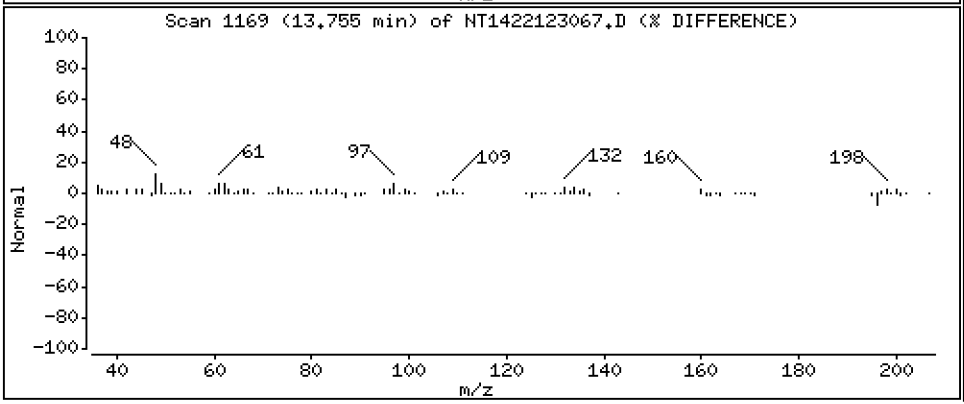
34 2,4,6-Trichlorophenol

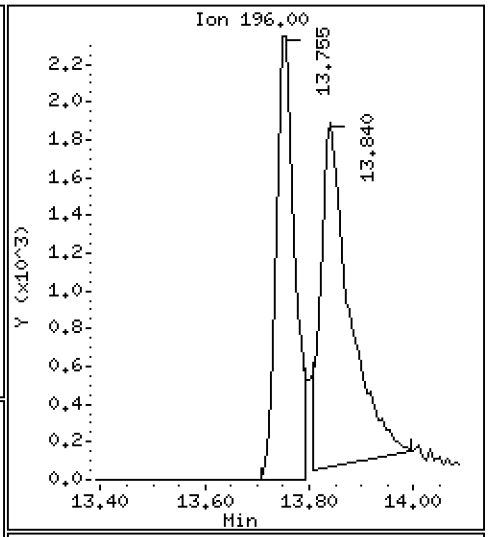
Concentration: 0.3442 ug/mL

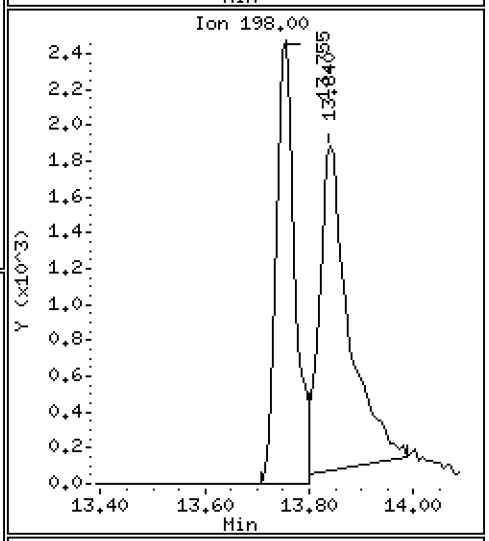


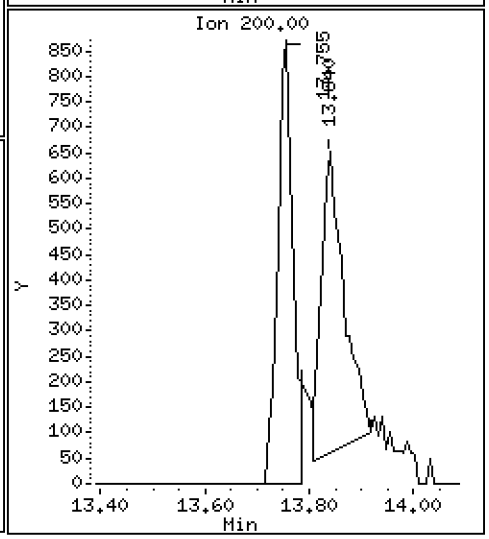












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

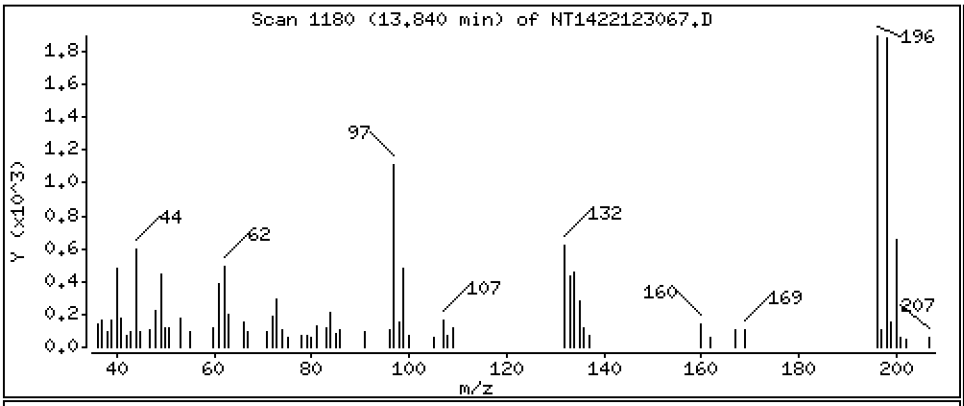
Operator: VTS

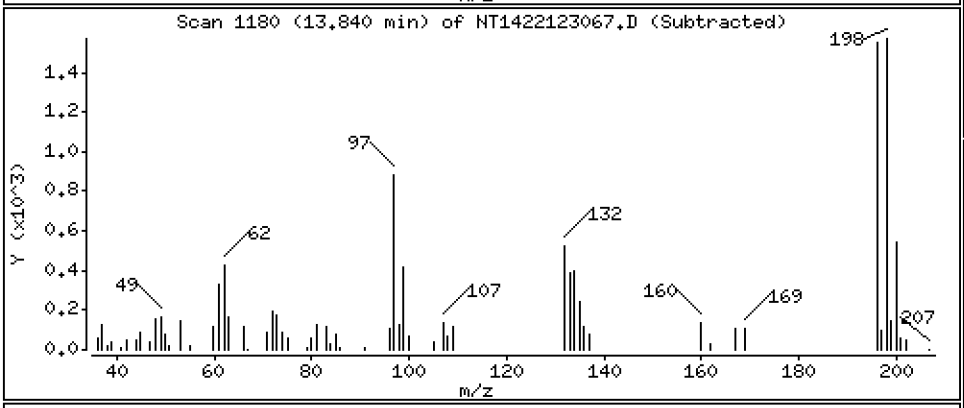
Column phase: ZB-5msi

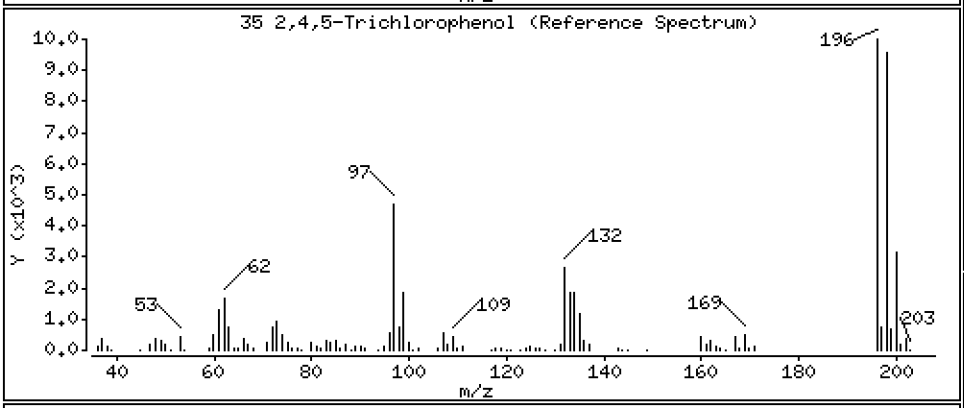
Column diameter: 0.25

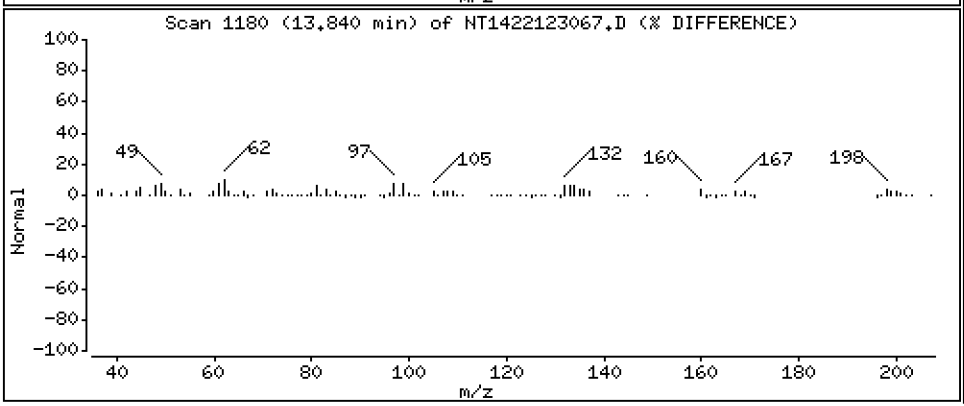
35 2,4,5-Trichlorophenol

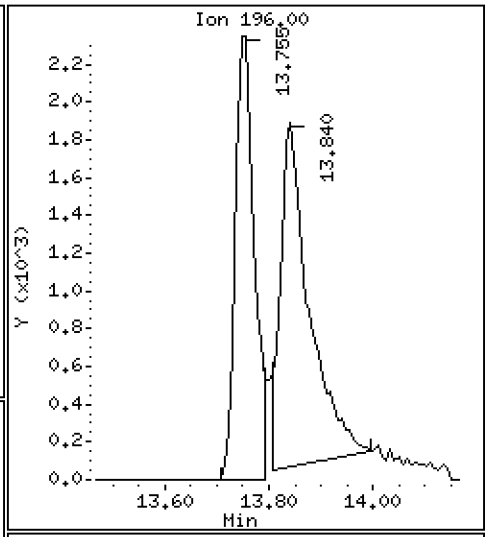
Concentration: 0.3604 ug/mL

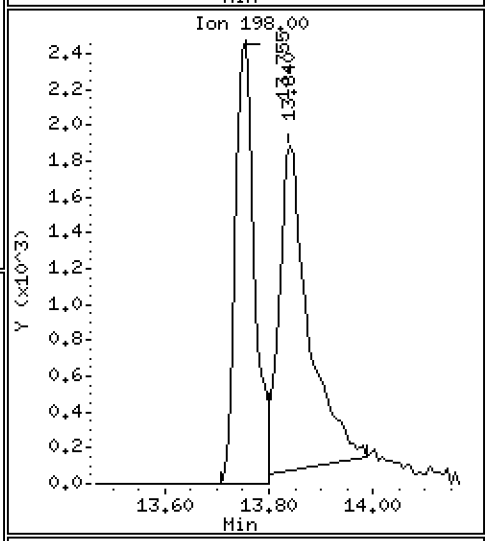


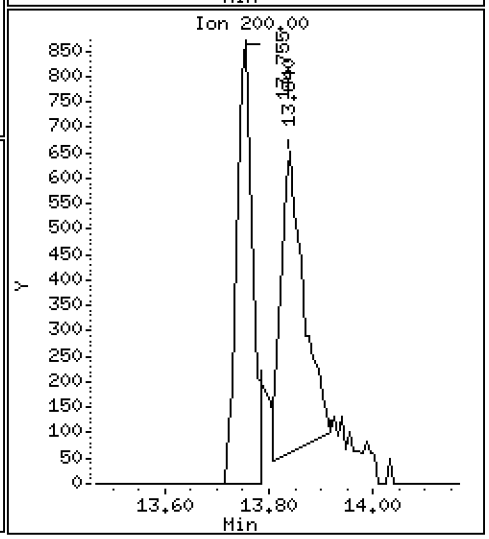












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

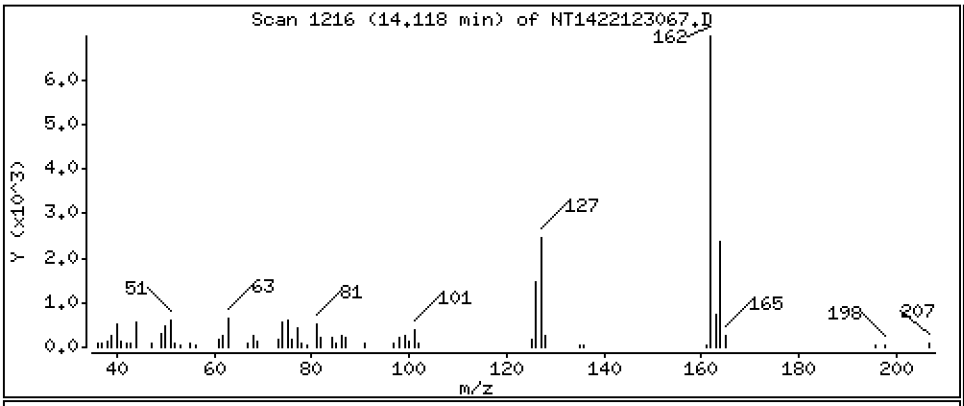
Operator: VTS

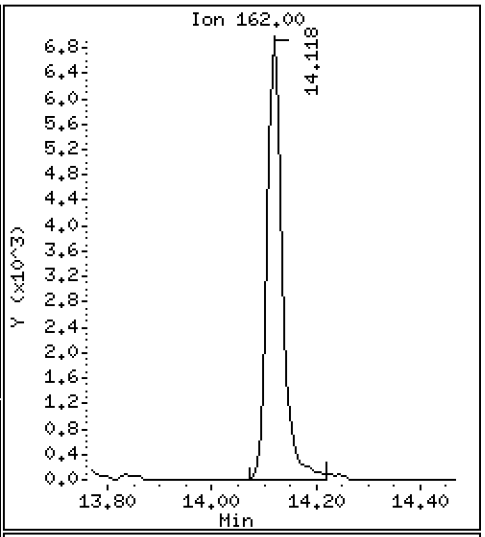
Column phase: ZB-5msi

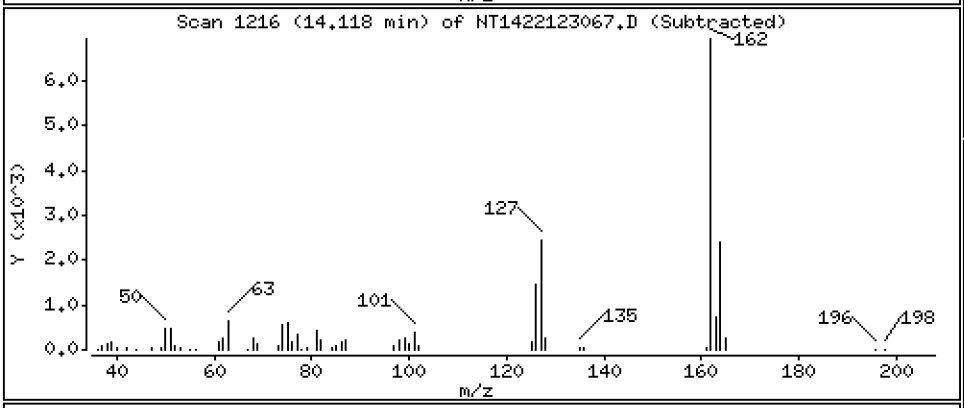
Column diameter: 0.25

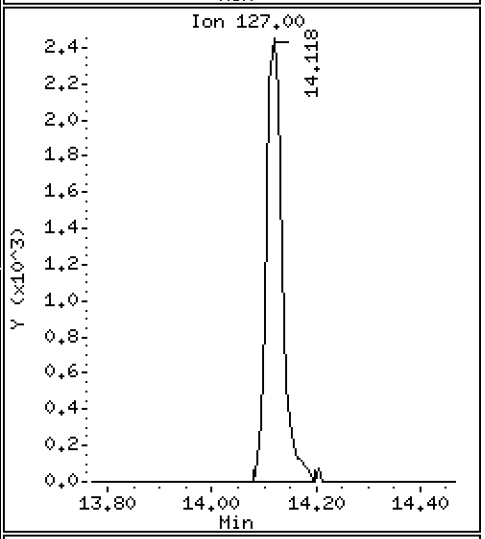
37 2-Chloronaphthalene

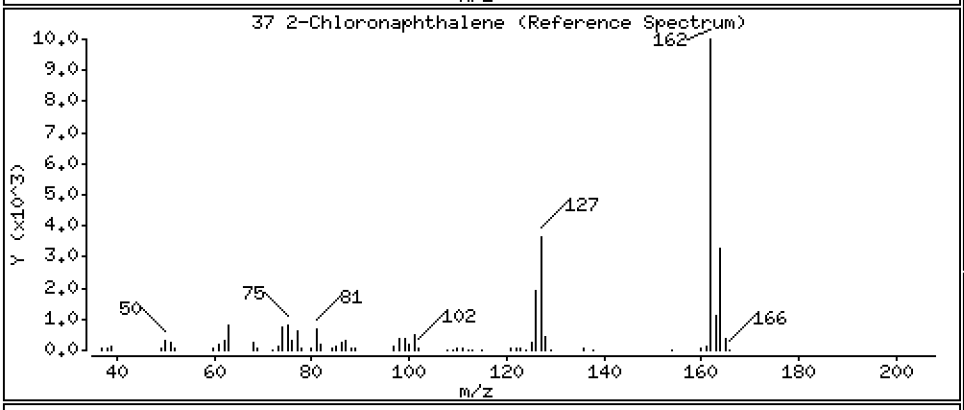
Concentration: 0.2346 ug/mL

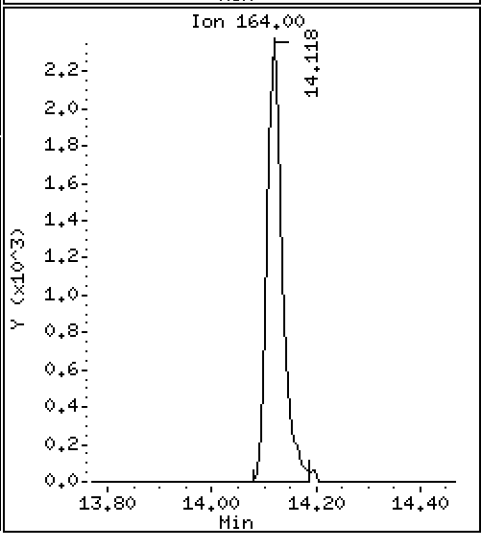


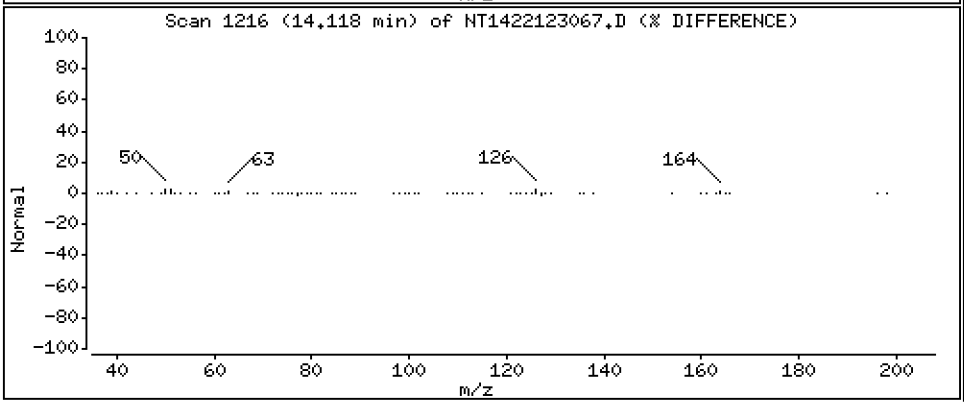












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

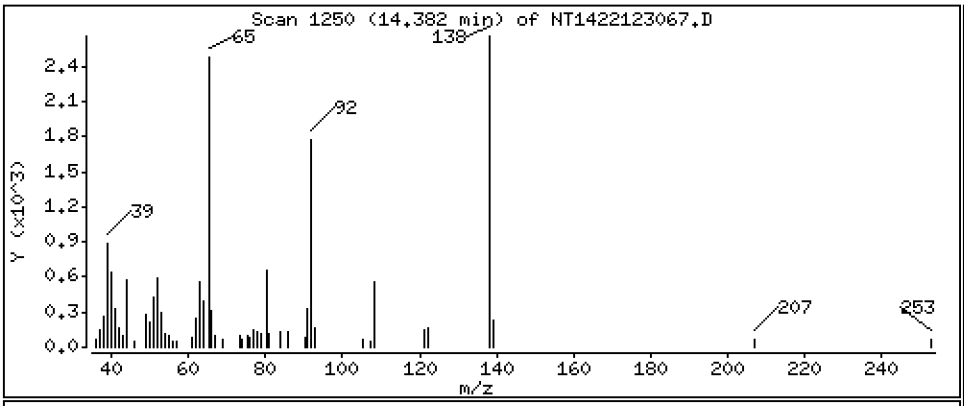
Operator: VTS

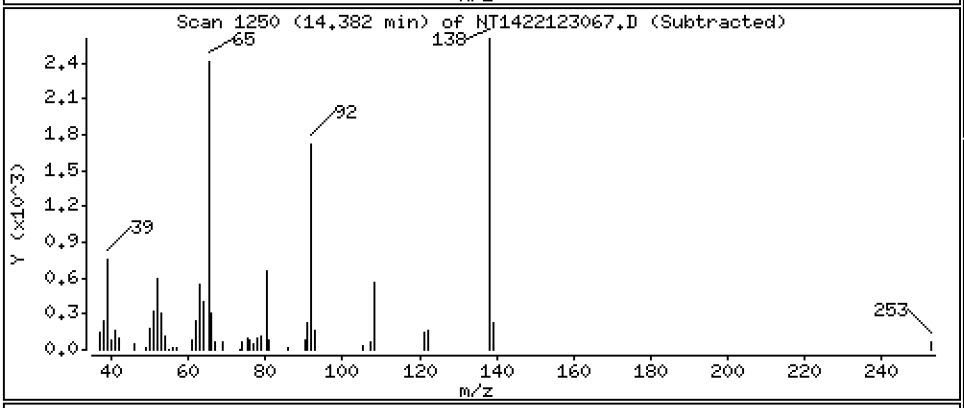
Column phase: ZB-5msi

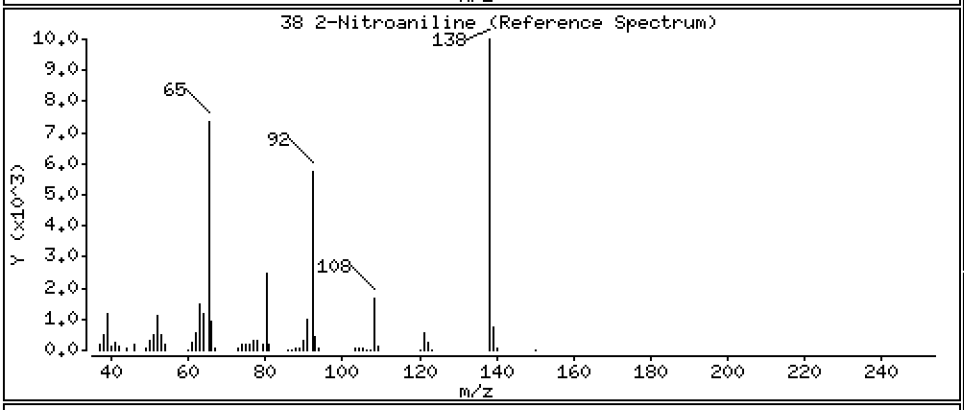
Column diameter: 0.25

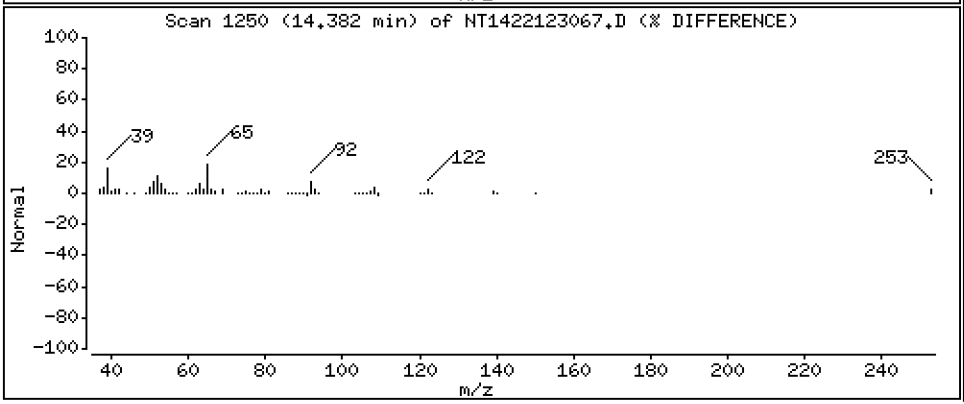
38 2-Nitroaniline

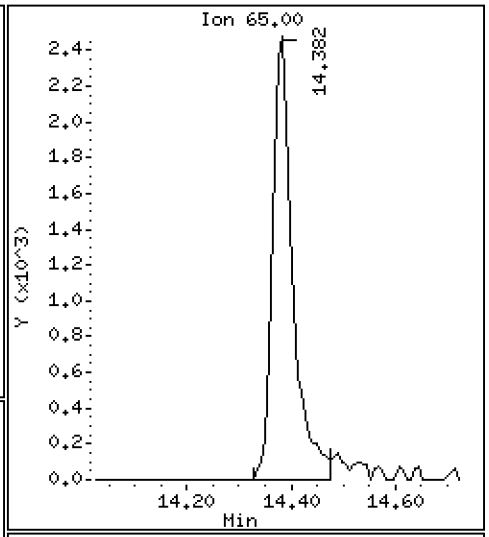
Concentration: 0.4296 ug/mL

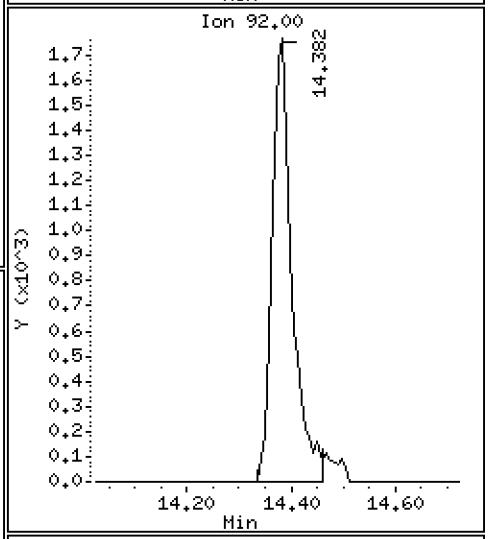


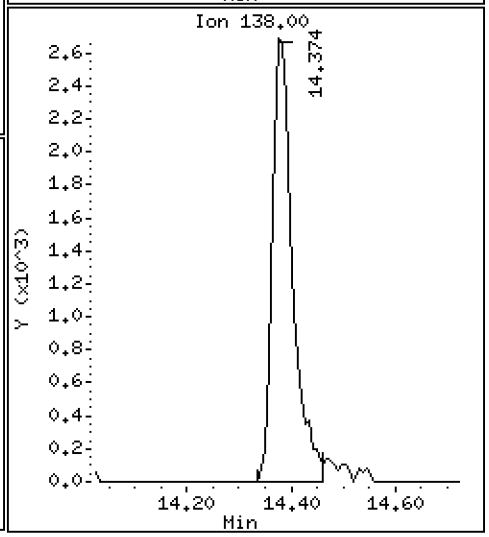












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

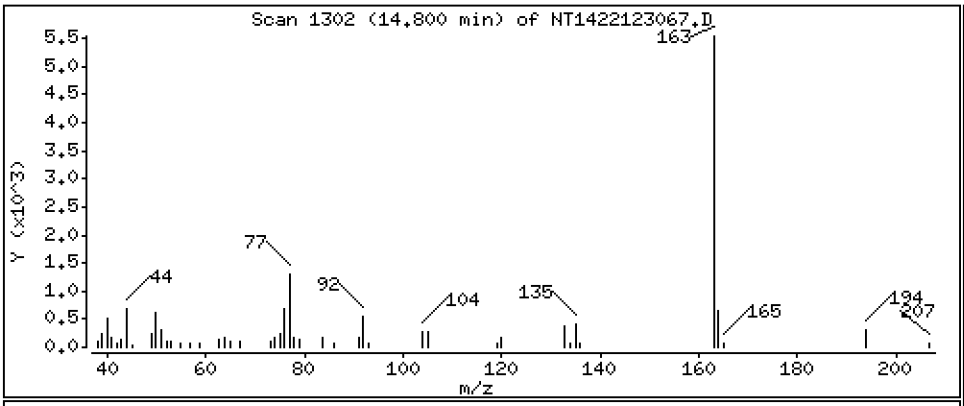
Operator: VTS

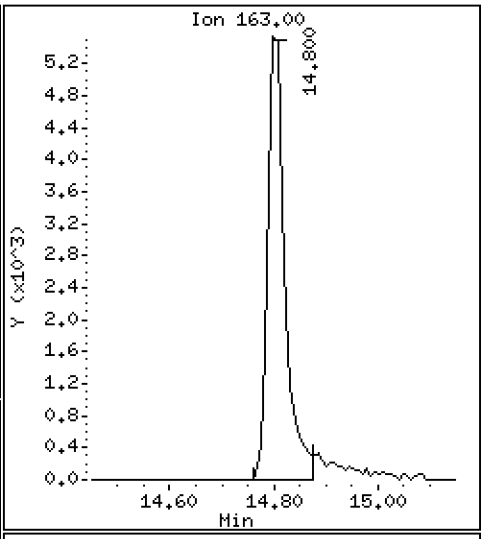
Column phase: ZB-5msi

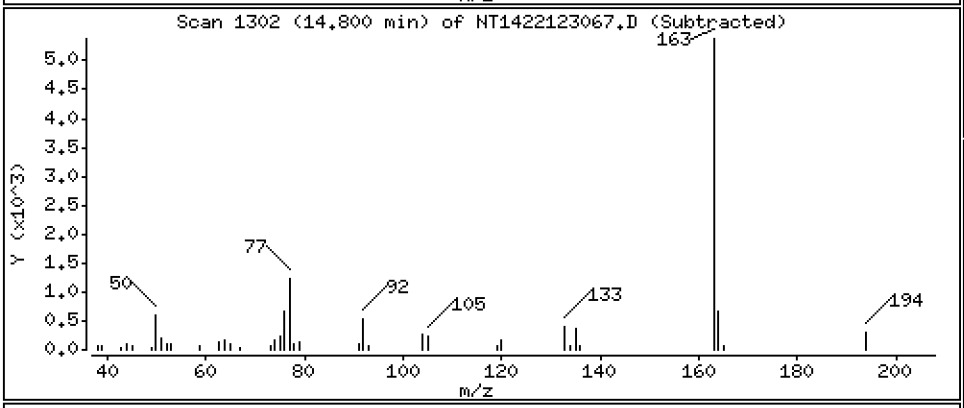
Column diameter: 0.25

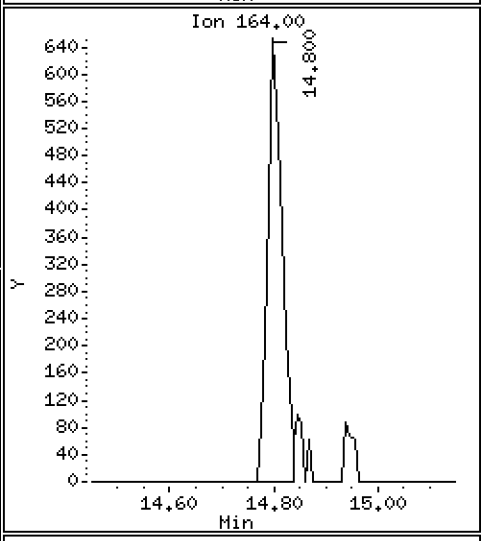
39 Dimethylphthalate

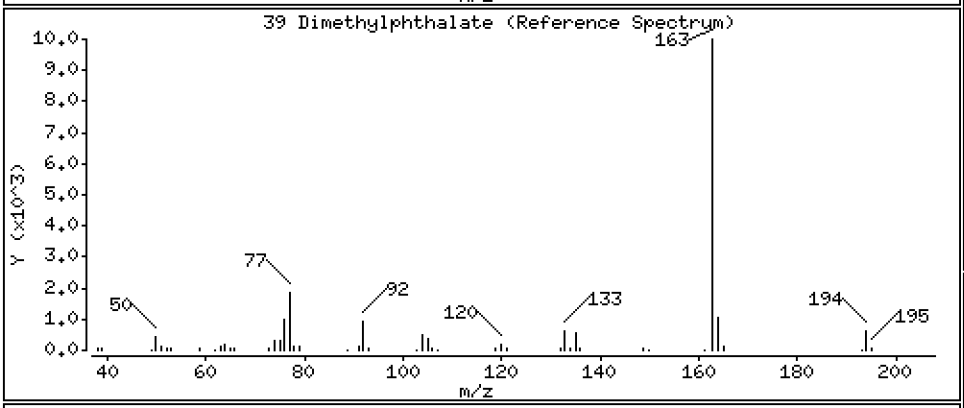
Concentration: 0.2138 ug/mL

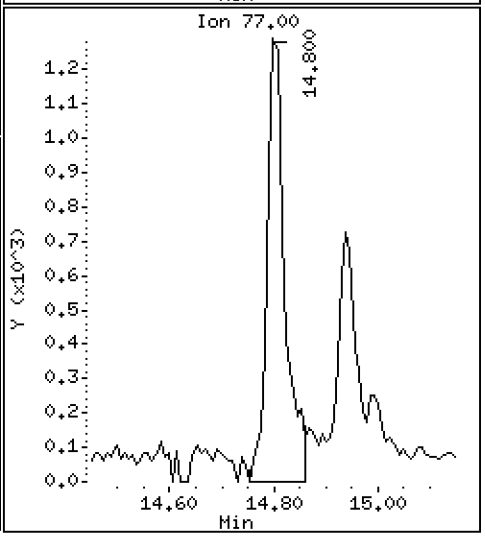


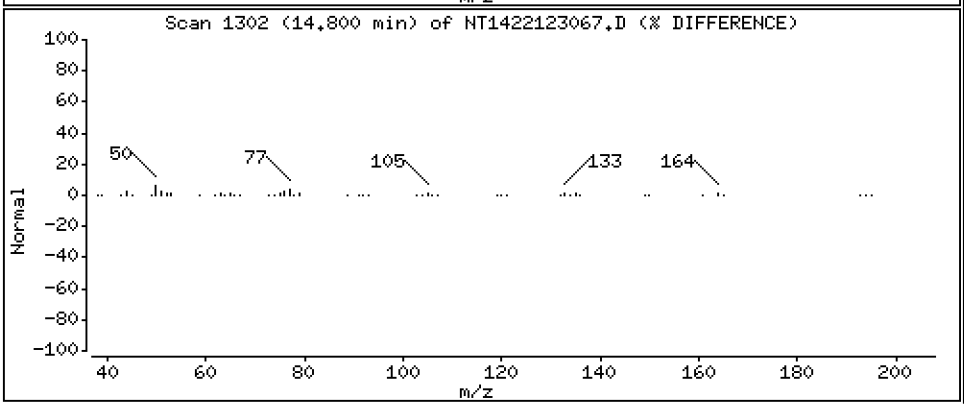












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

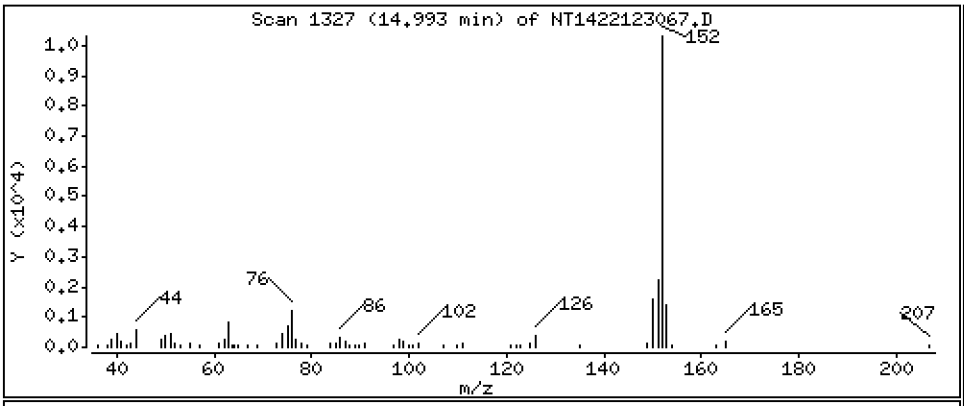
Operator: VTS

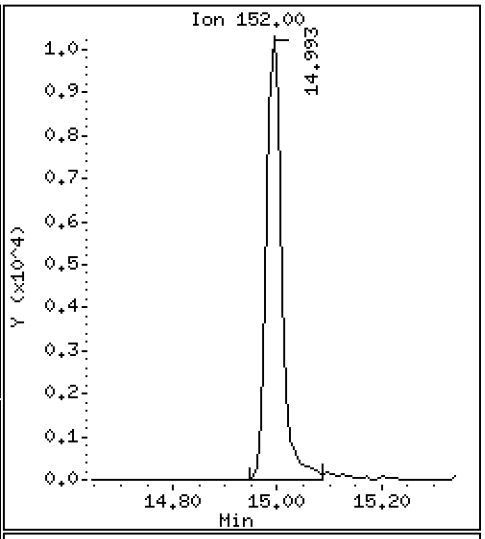
Column phase: ZB-5msi

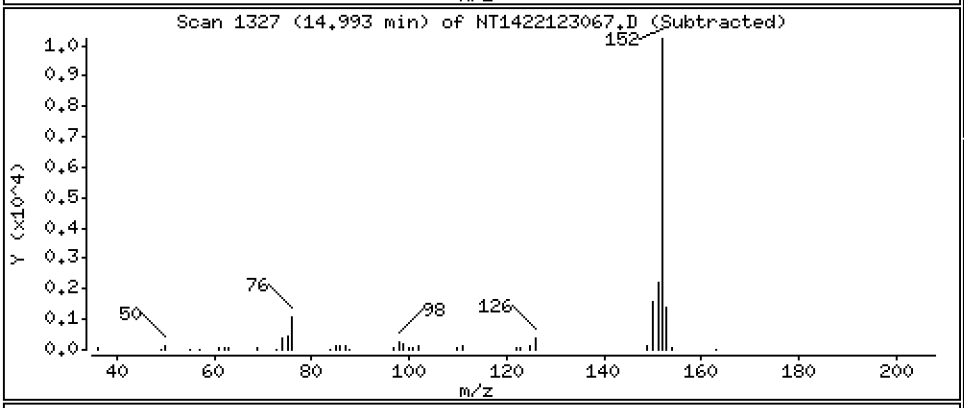
Column diameter: 0.25

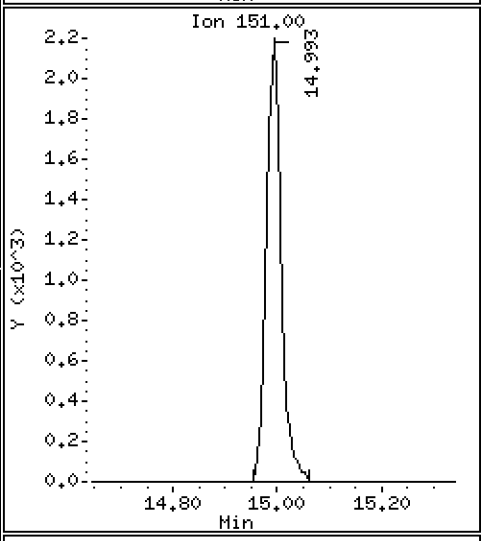
40 Acenaphthylene

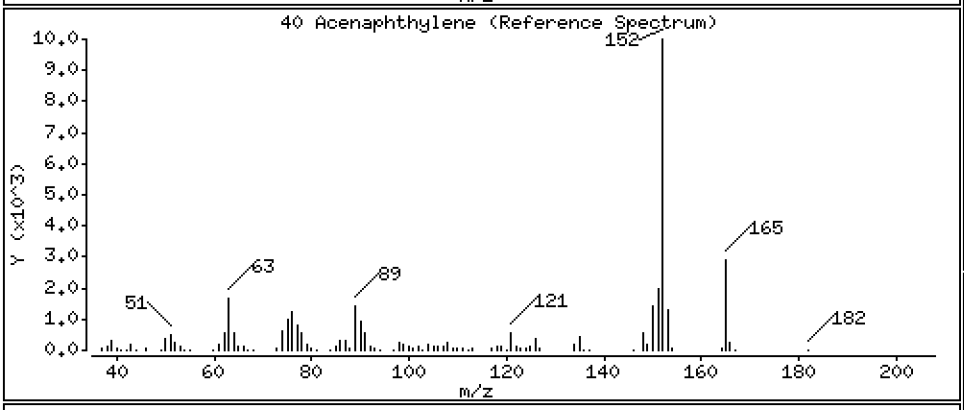
Concentration: 0.2291 ug/mL

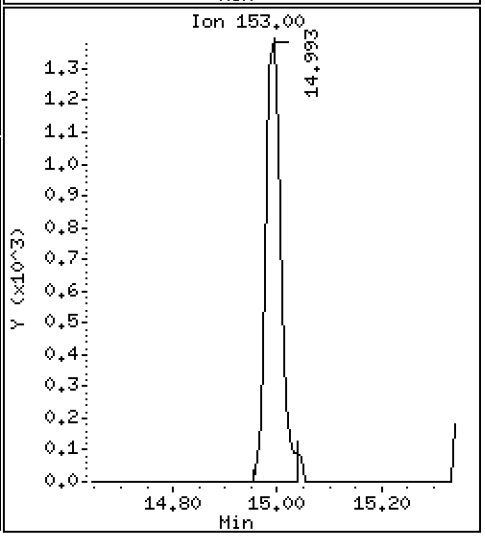


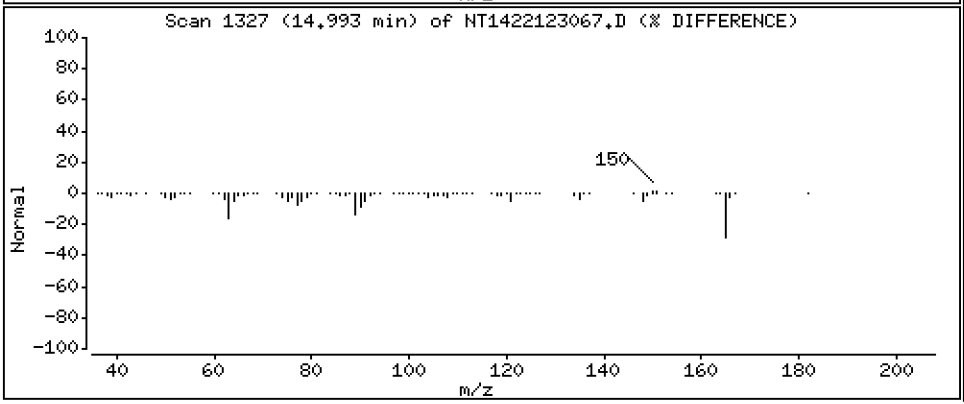












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

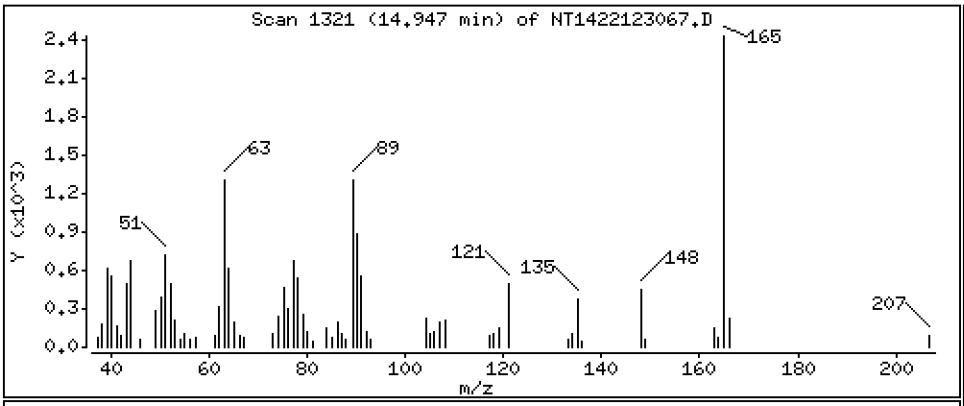
Operator: VTS

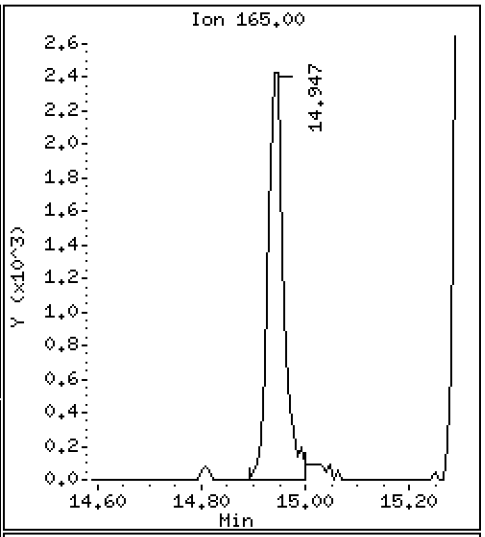
Column phase: ZB-5msi

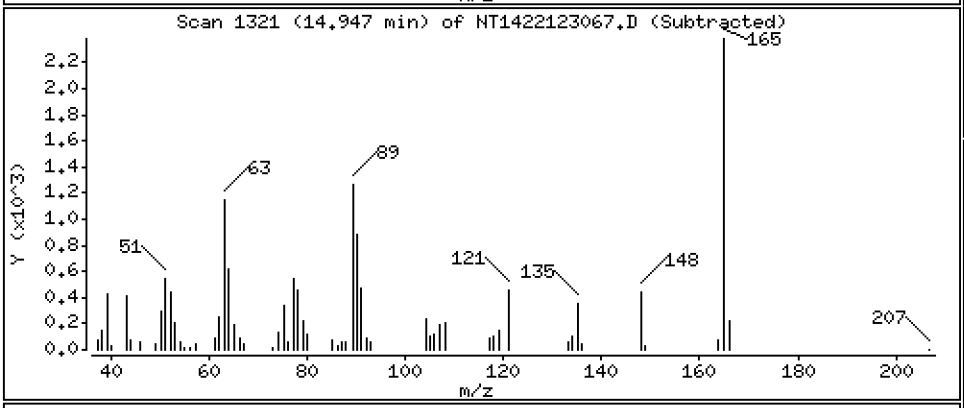
Column diameter: 0.25

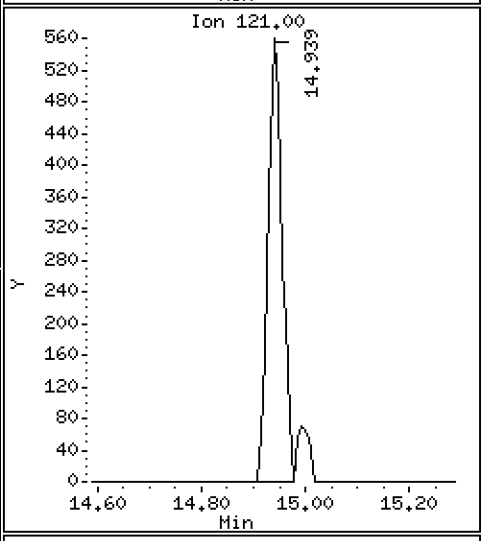
41 2,6-Dinitrotoluene

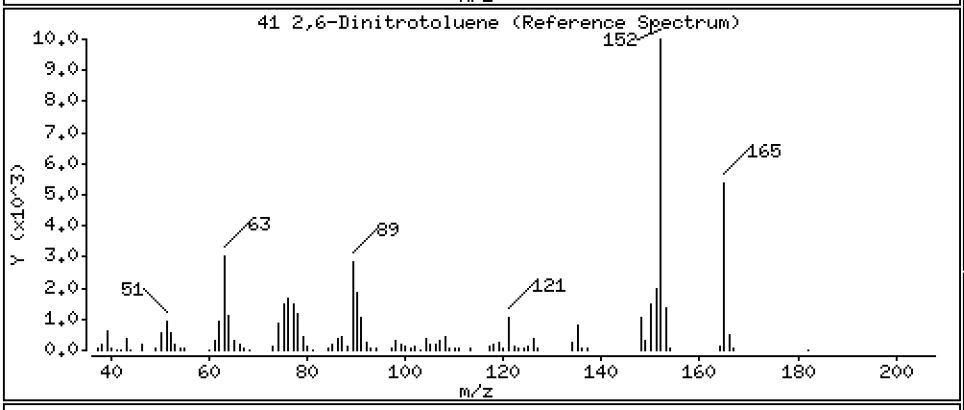
Concentration: 0.3820 ug/mL

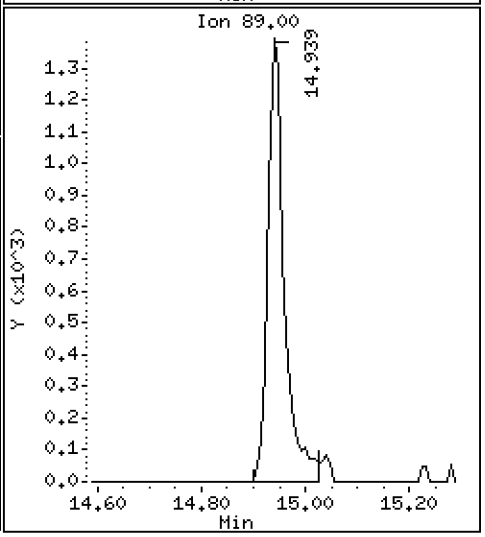


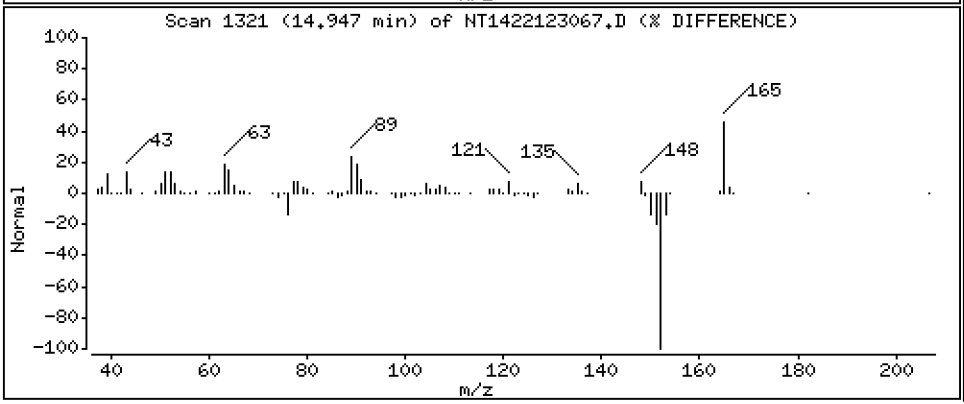












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

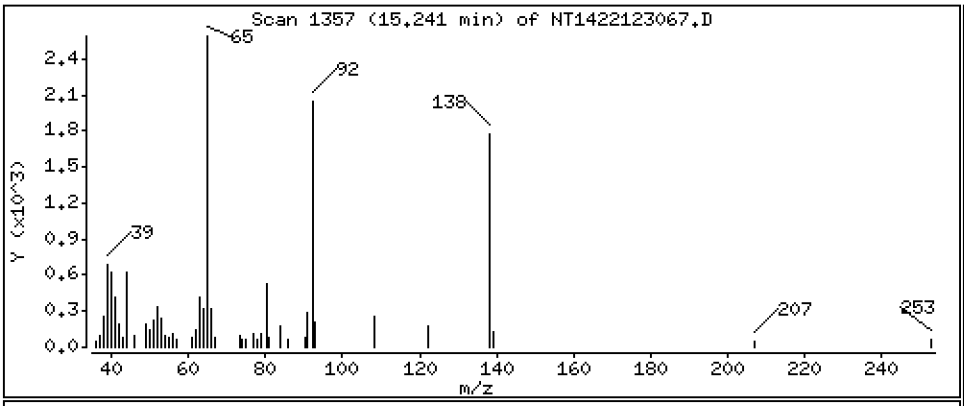
Operator: VTS

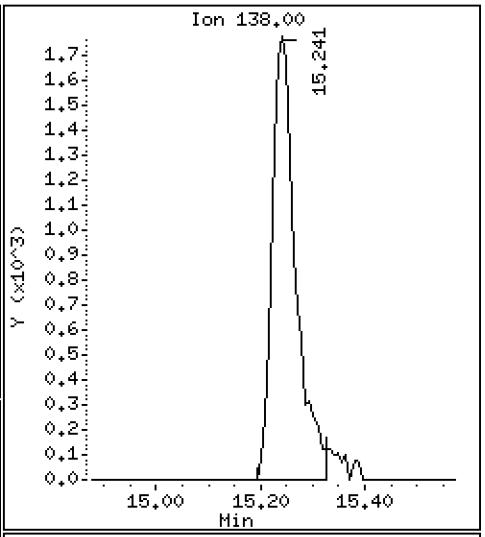
Column phase: ZB-5msi

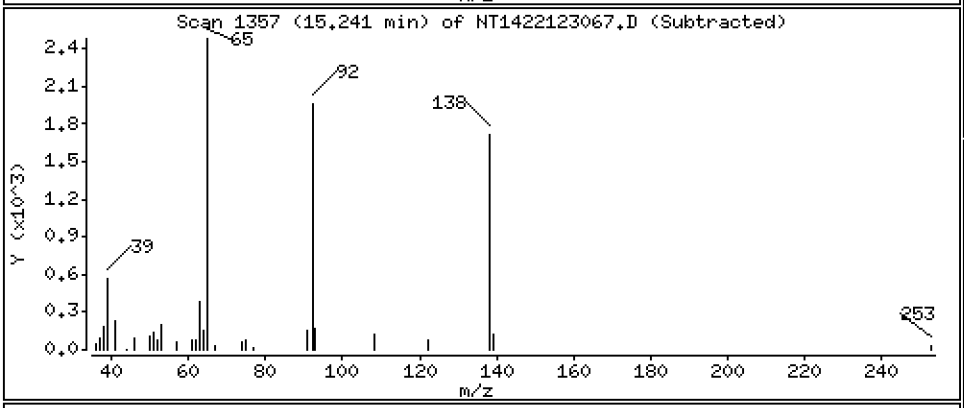
Column diameter: 0.25

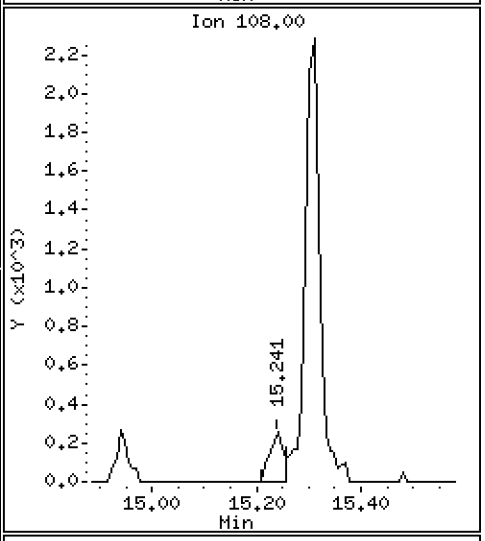
43 3-Nitroaniline

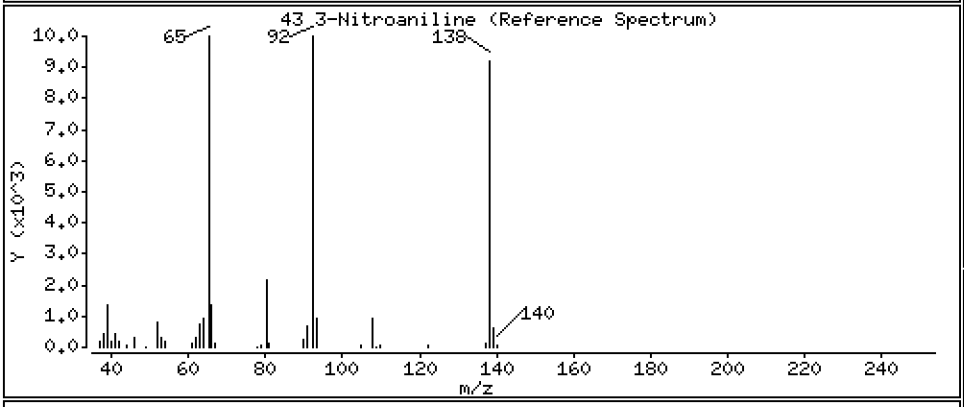
Concentration: 0.3563 ug/mL

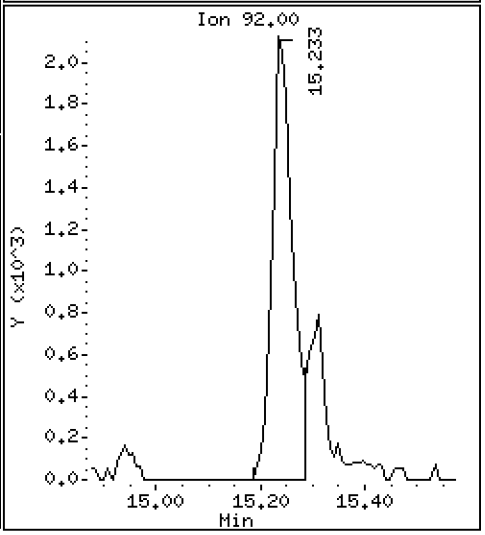


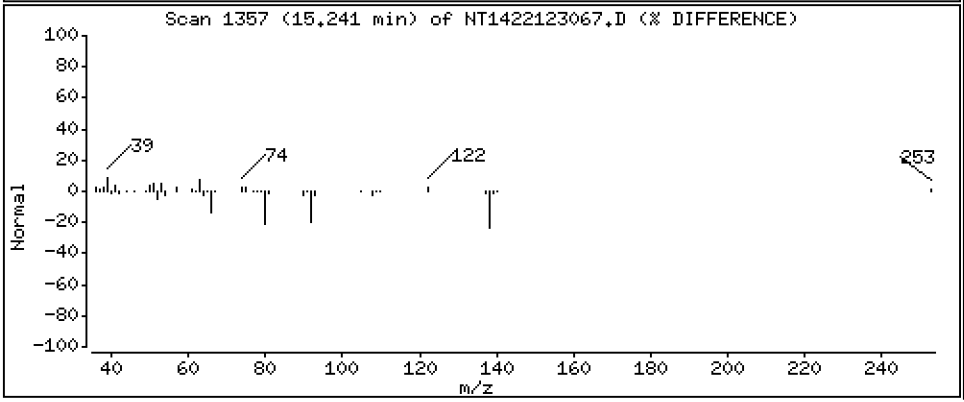












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

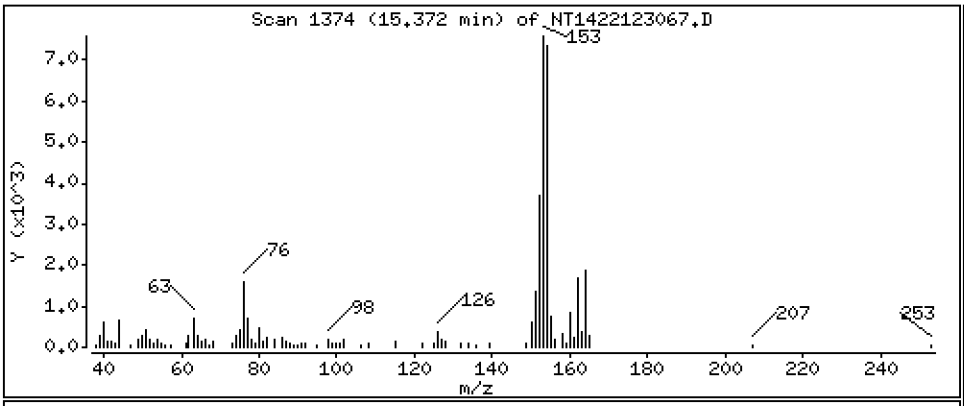
Operator: VTS

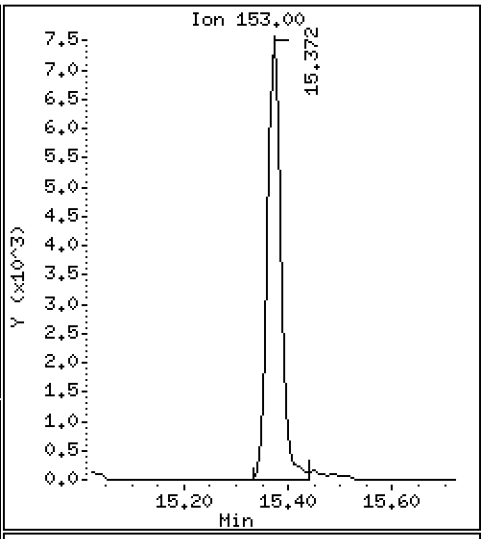
Column phase: ZB-5msi

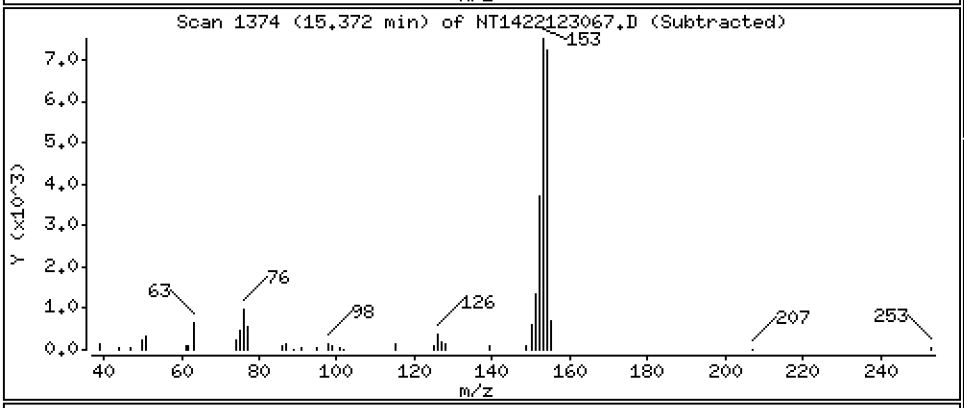
Column diameter: 0.25

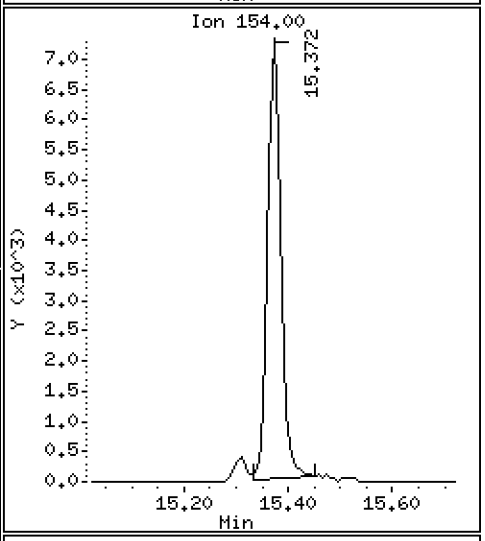
44 Acenaphthene

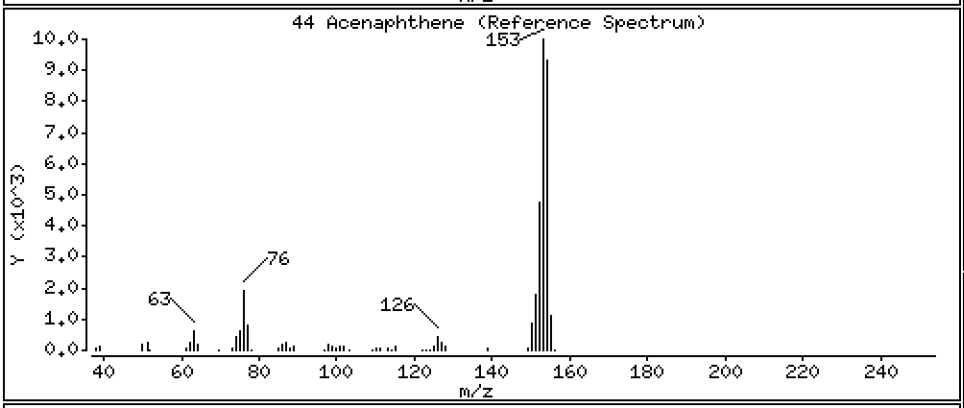
Concentration: 0.2358 ug/mL

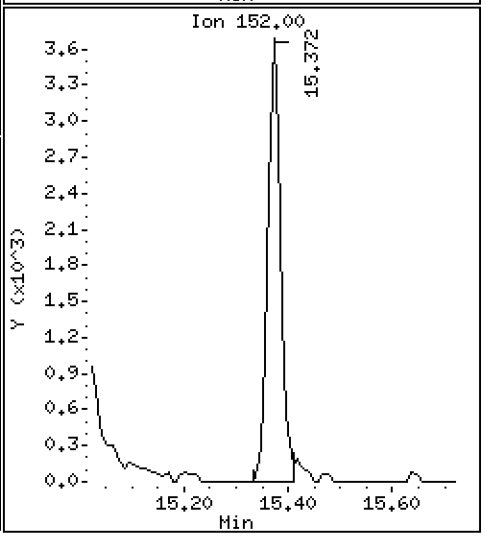


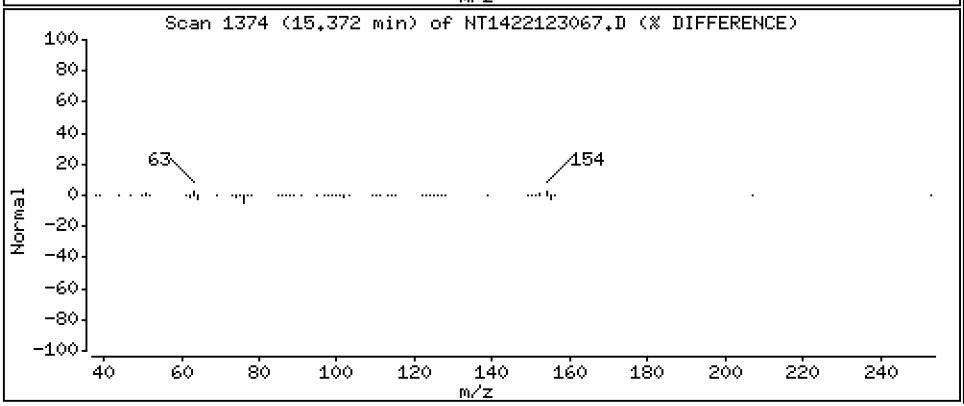












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

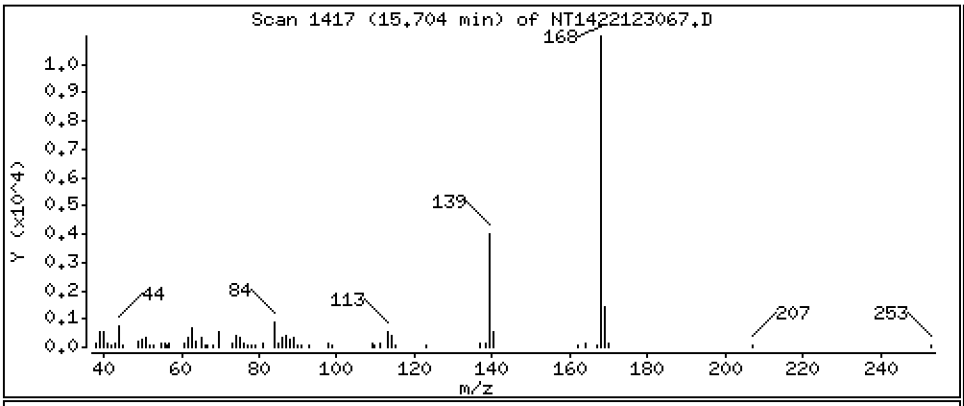
Operator: VTS

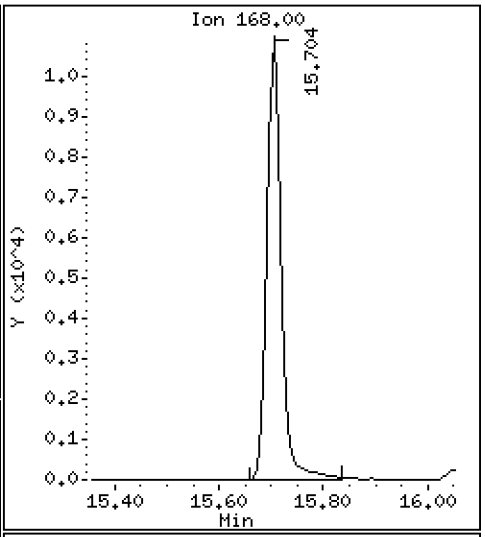
Column phase: ZB-5msi

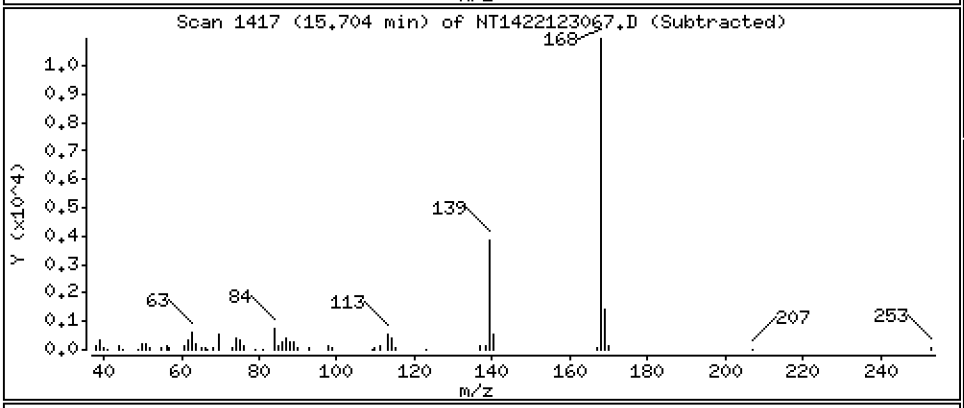
Column diameter: 0.25

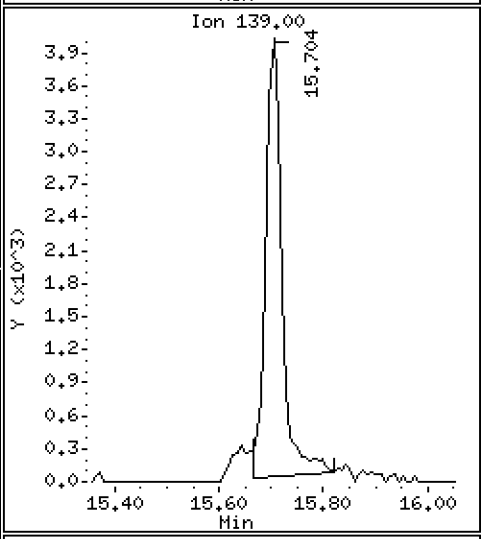
46 Dibenzofuran

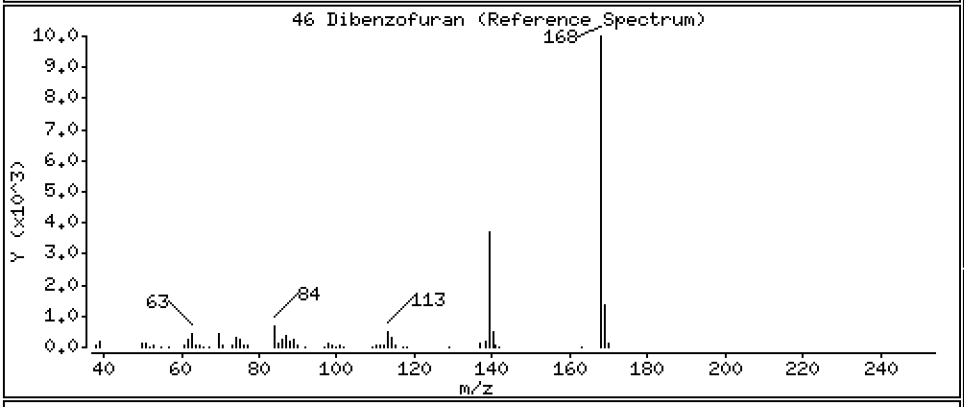
Concentration: 0.2405 ug/mL

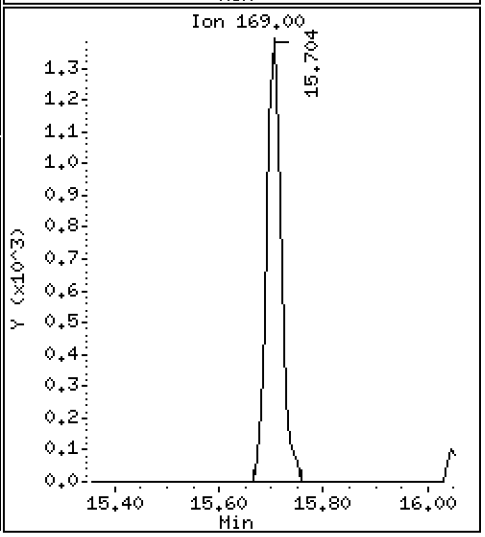


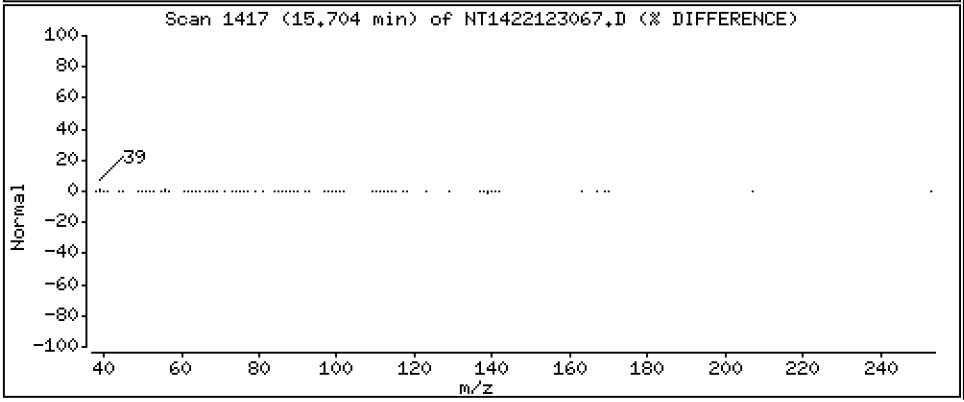












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

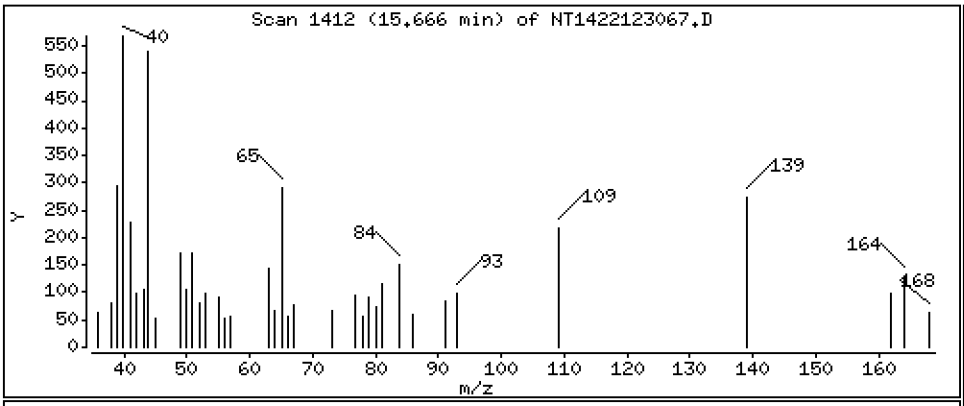
Operator: VTS

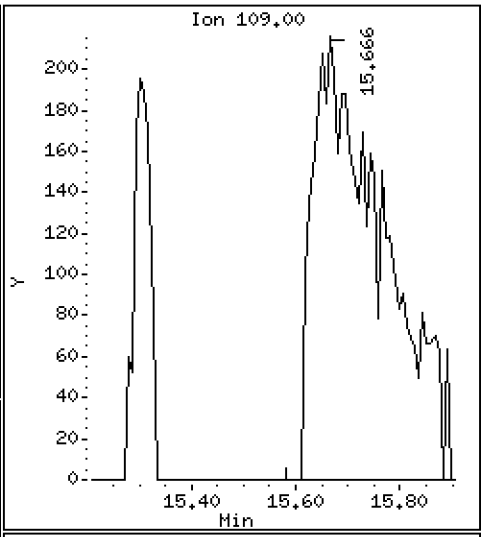
Column phase: ZB-5msi

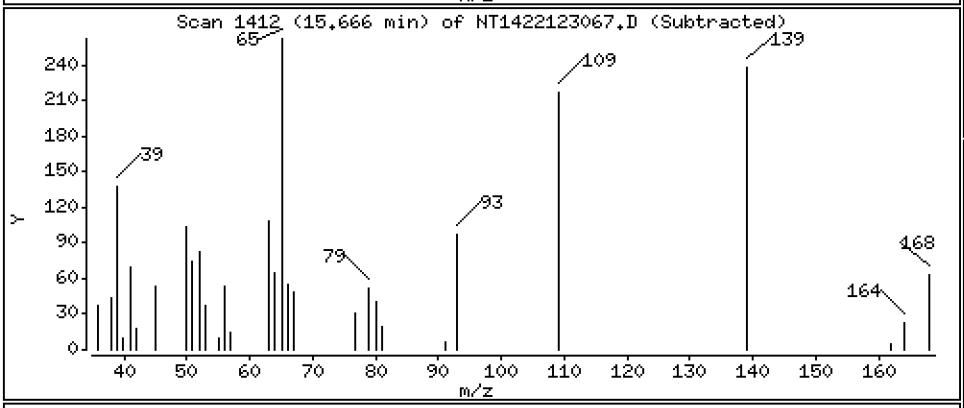
Column diameter: 0.25

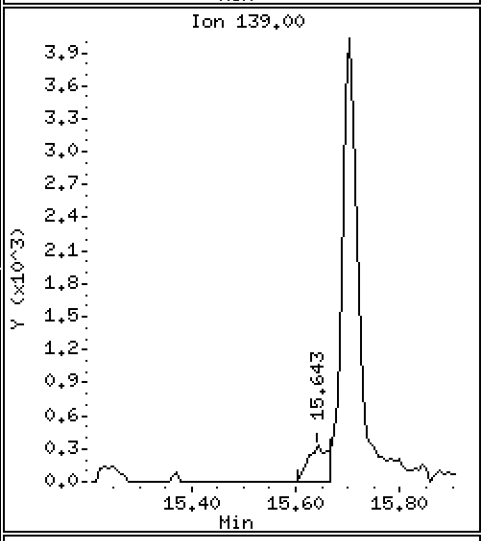
47 4-Nitrophenol

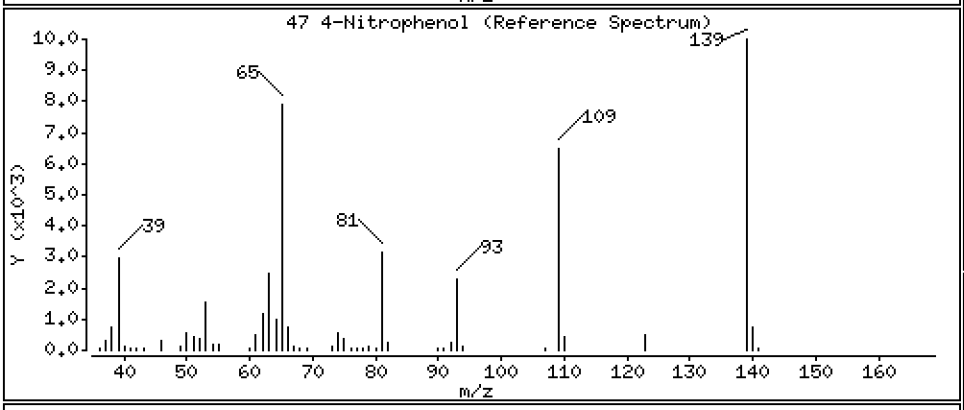
Concentration: 0.2680 ug/mL

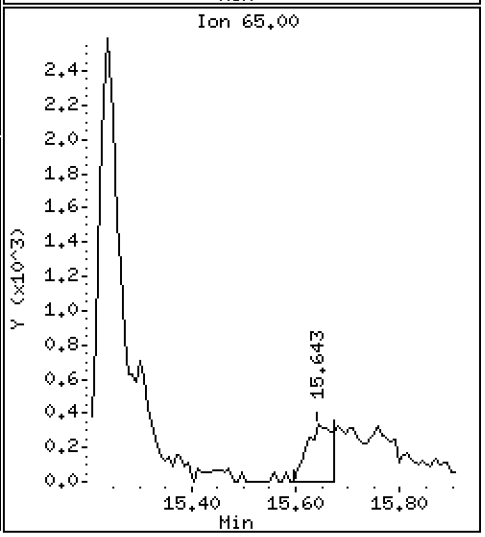


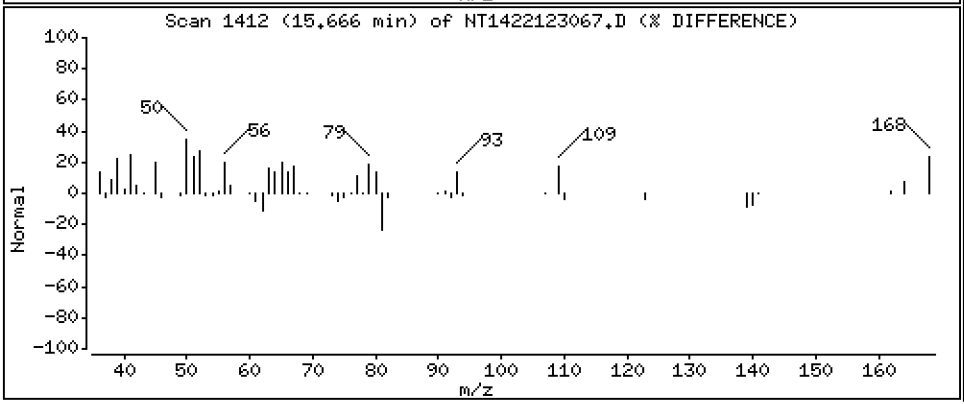












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

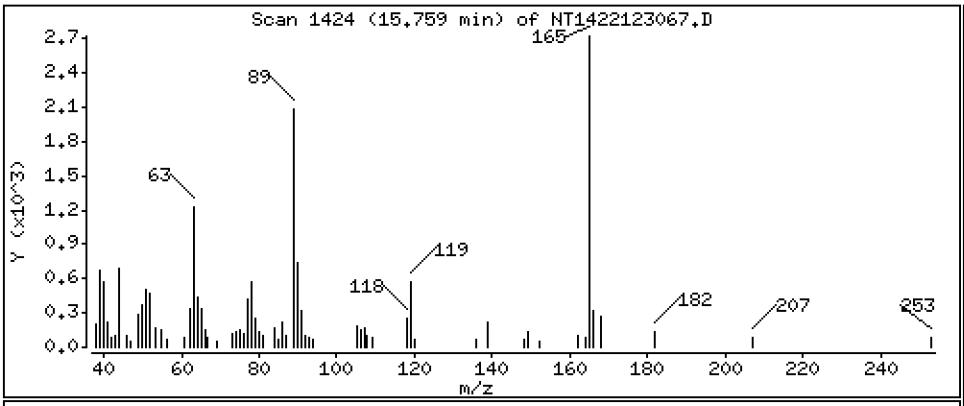
Operator: VTS

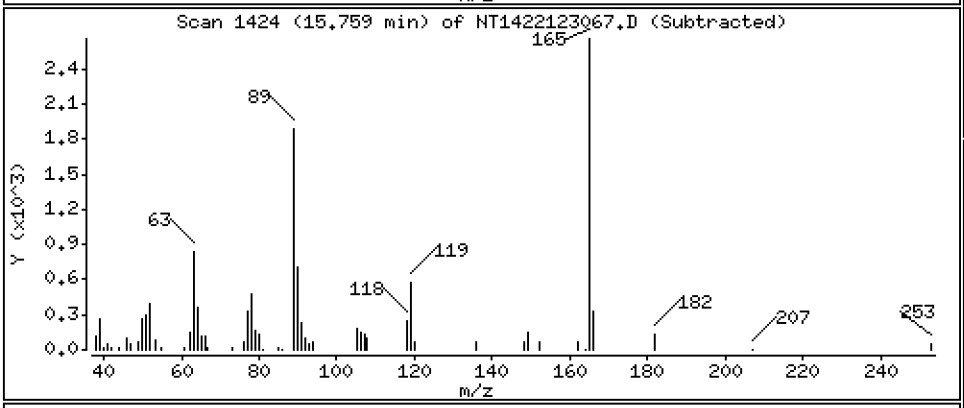
Column phase: ZB-5msi

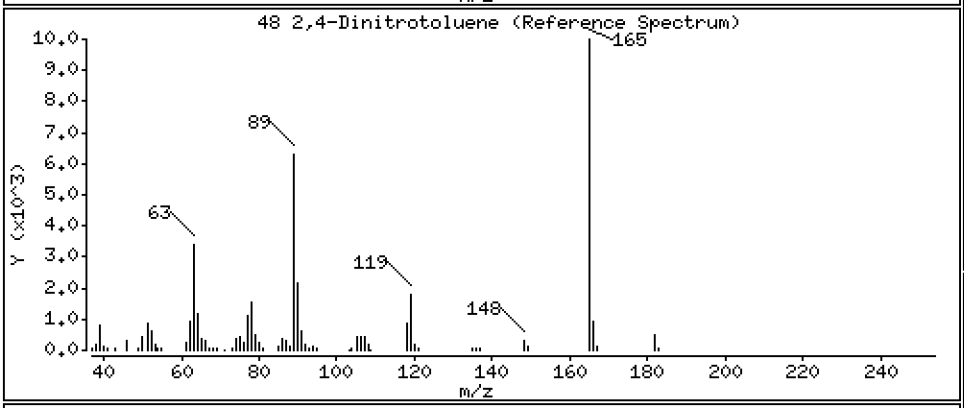
Column diameter: 0.25

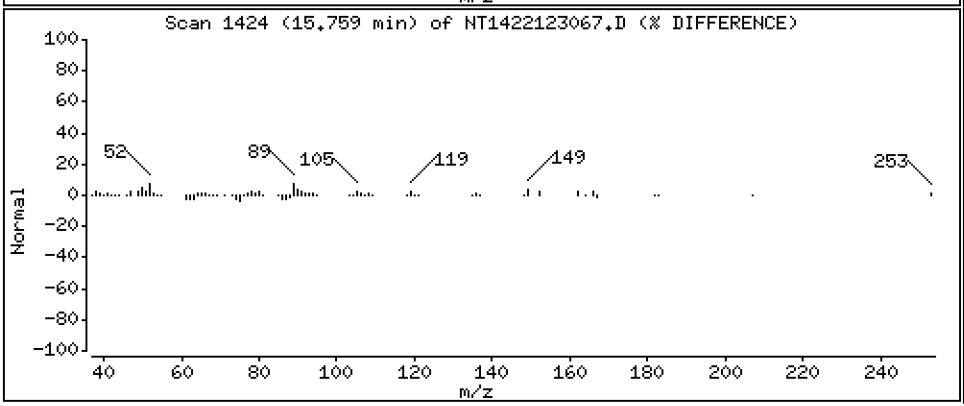
48 2,4-Dinitrotoluene

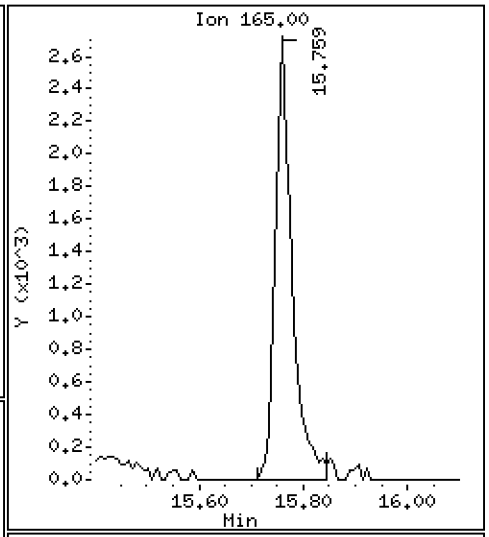
Concentration: 0.3389 ug/mL

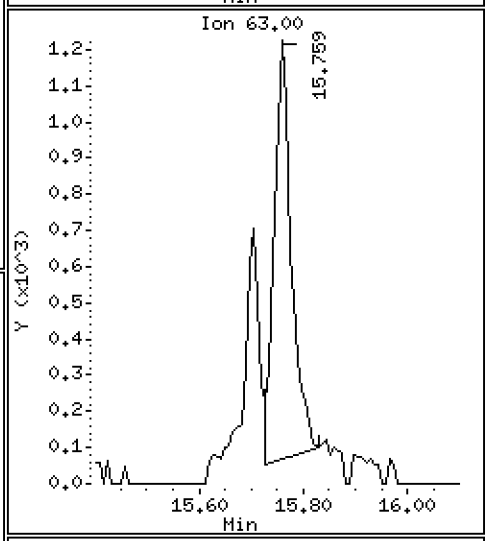


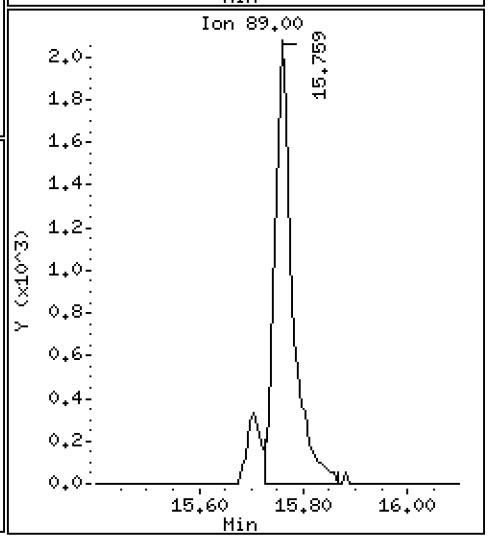












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

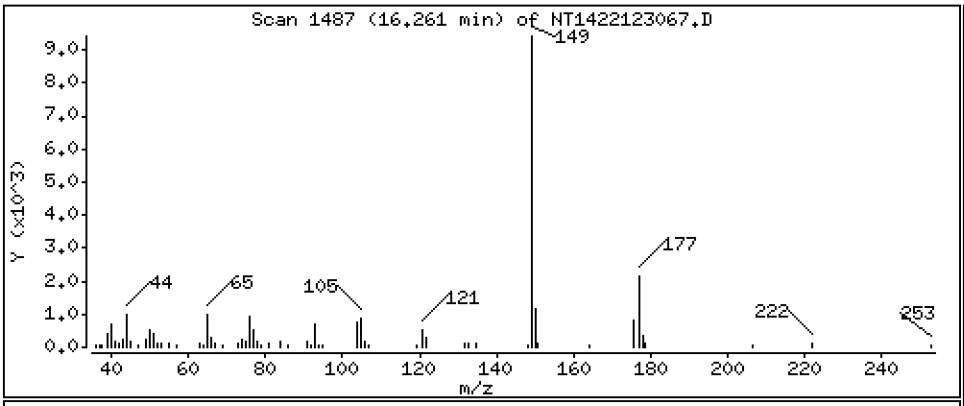
Operator: VTS

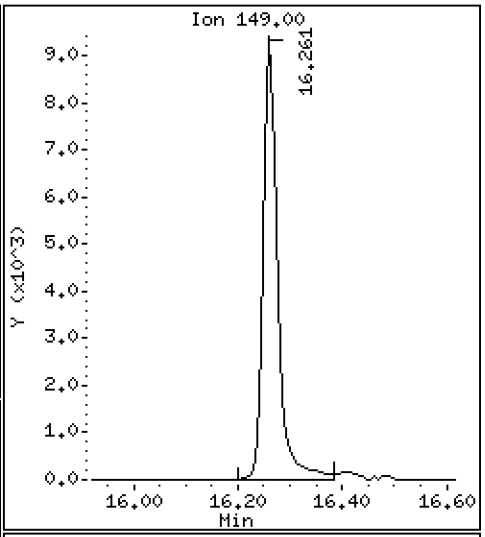
Column phase: ZB-5msi

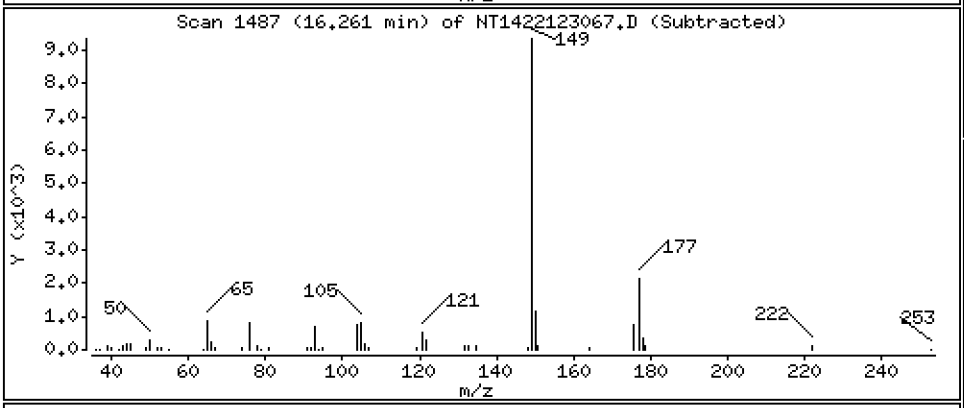
Column diameter: 0.25

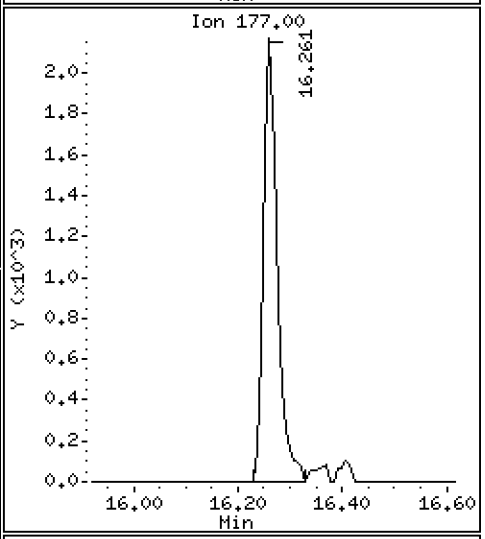
50 Diethylphthalate

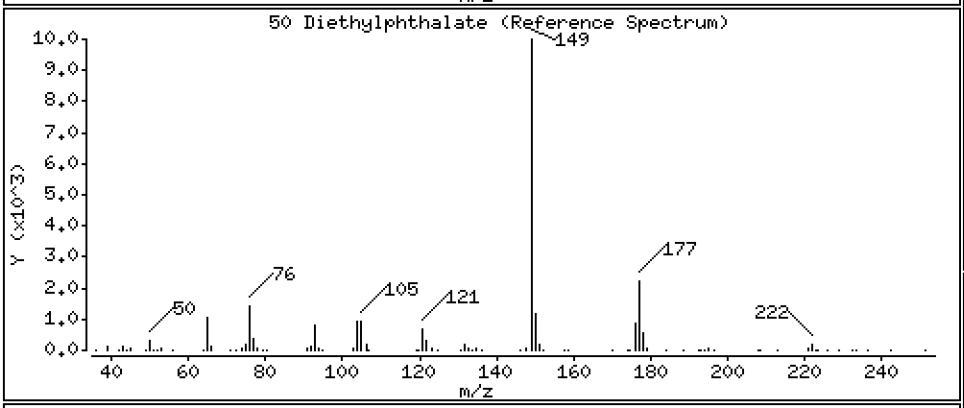
Concentration: 0.2595 ug/mL

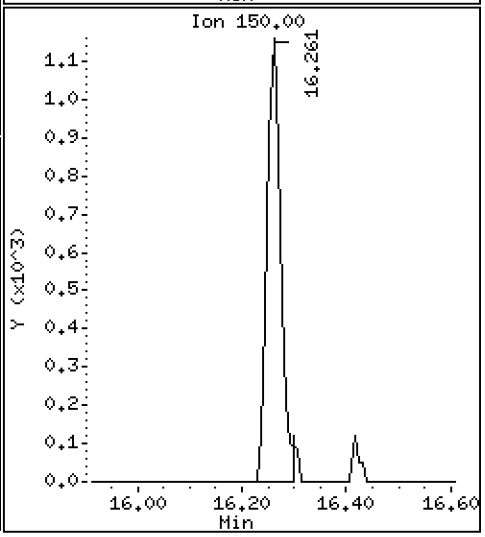


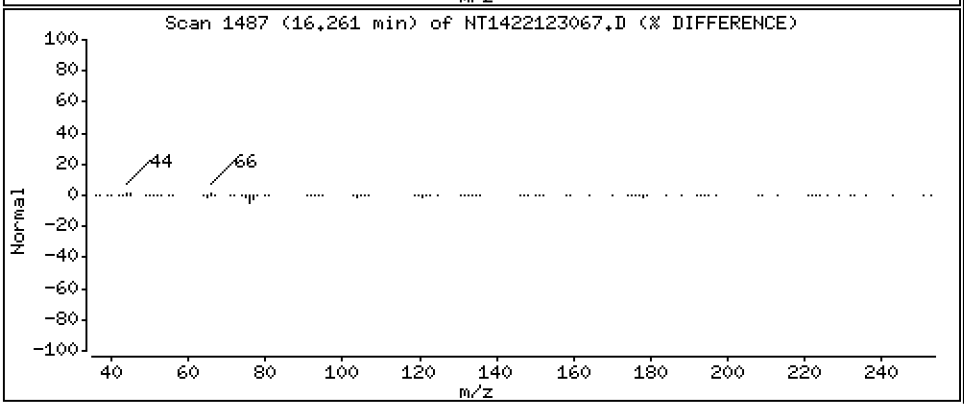












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

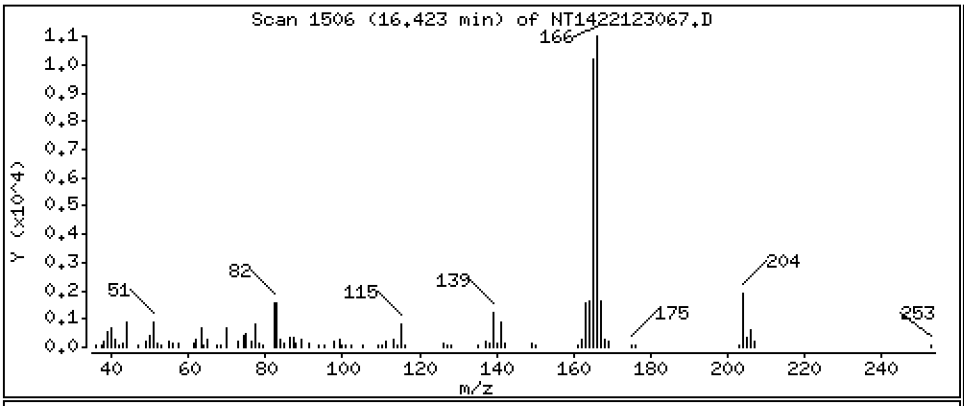
Operator: VTS

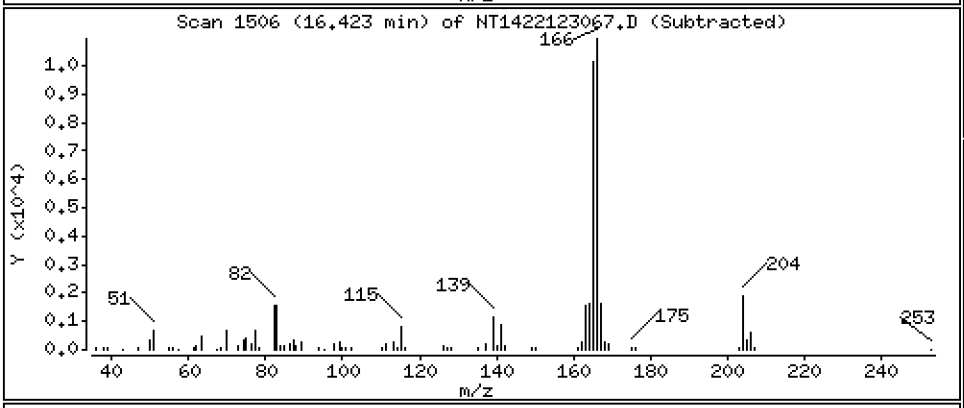
Column phase: ZB-5msi

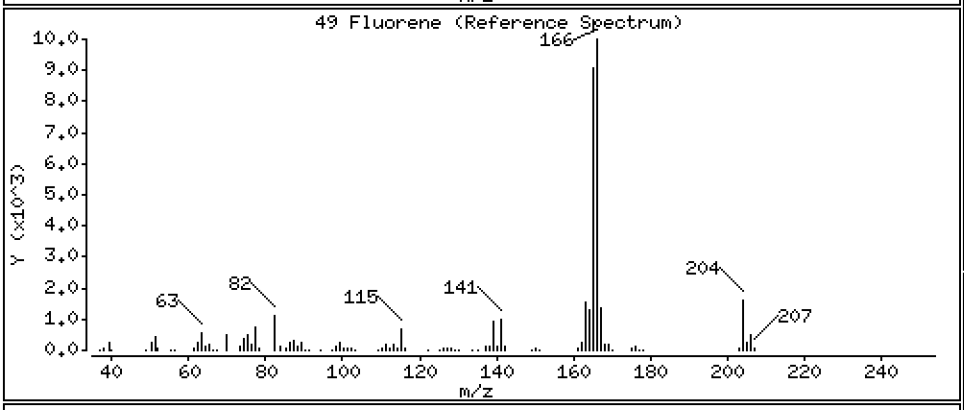
Column diameter: 0.25

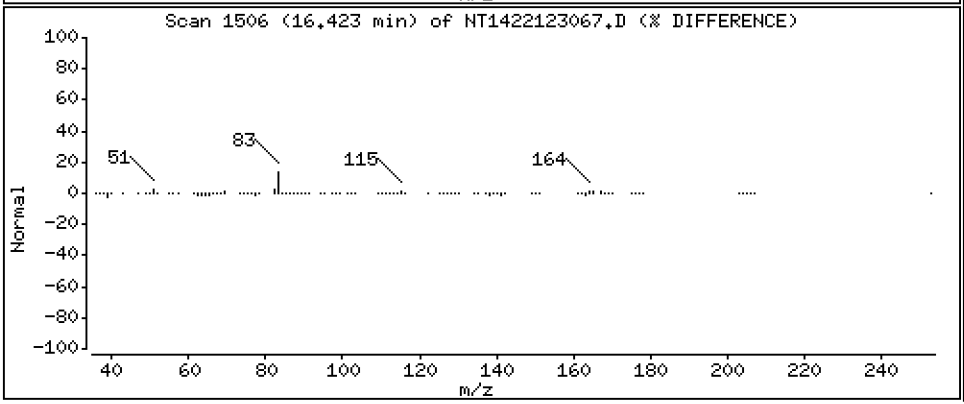
49 Fluorene

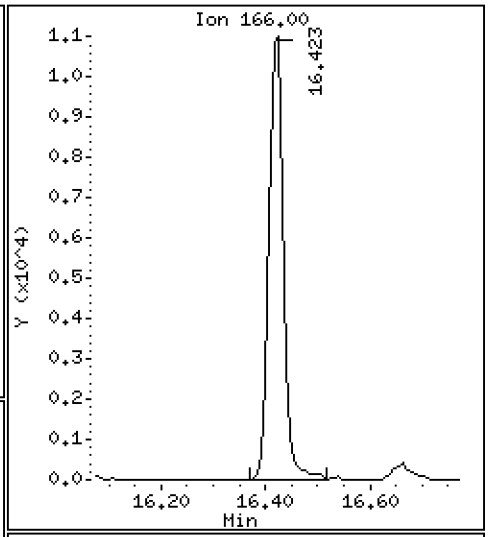
Concentration: 0.2334 ug/mL

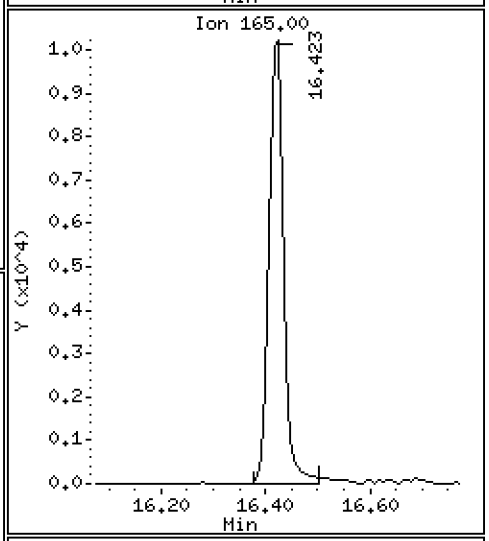


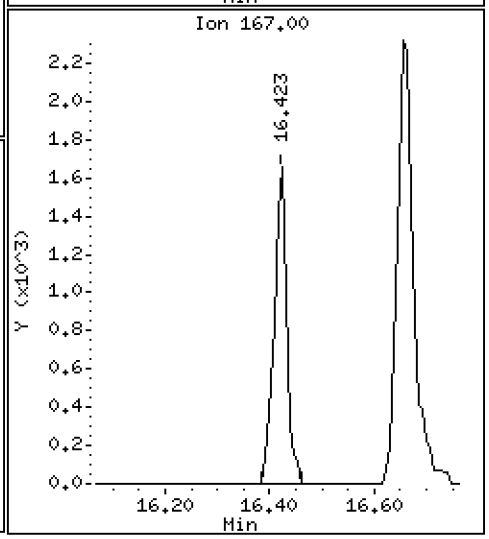












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

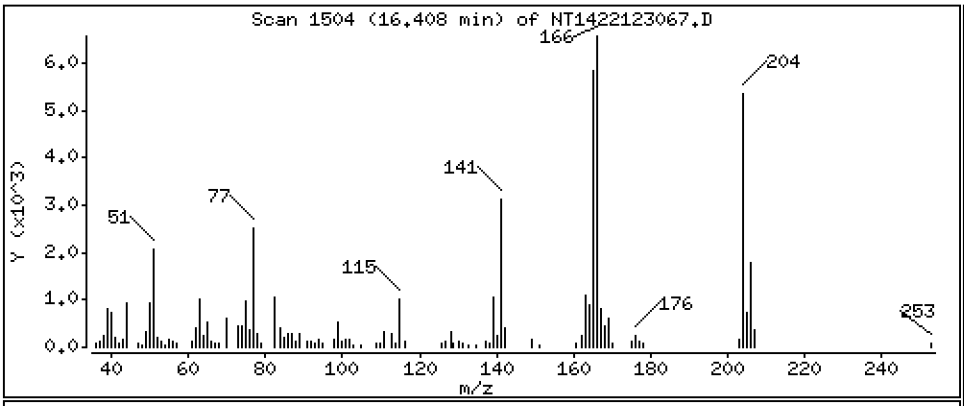
Operator: VTS

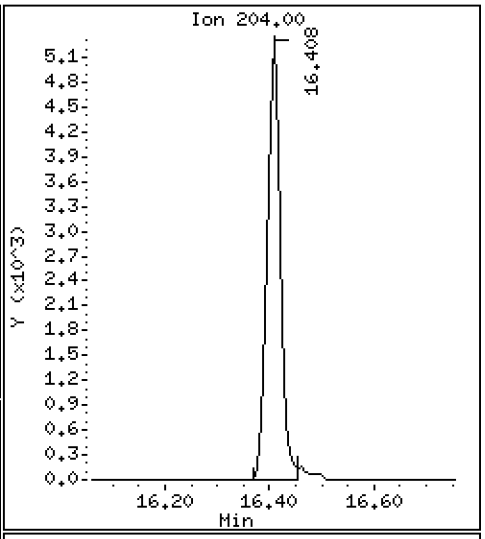
Column phase: ZB-5msi

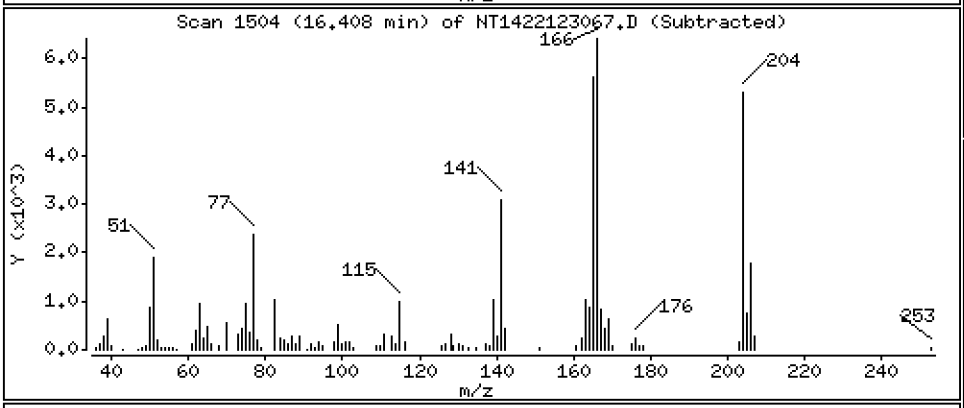
Column diameter: 0.25

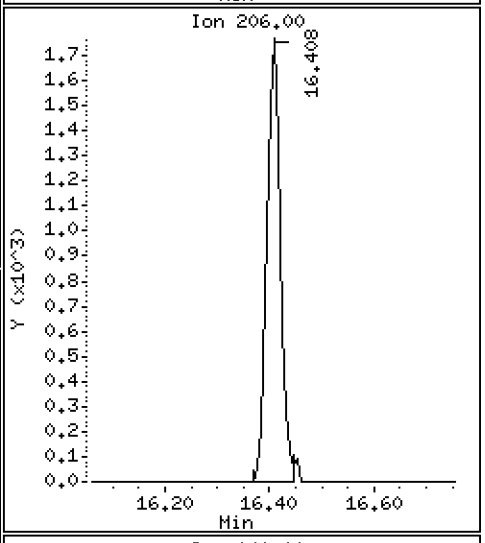
51 4-Chlorophenyl-phenylether

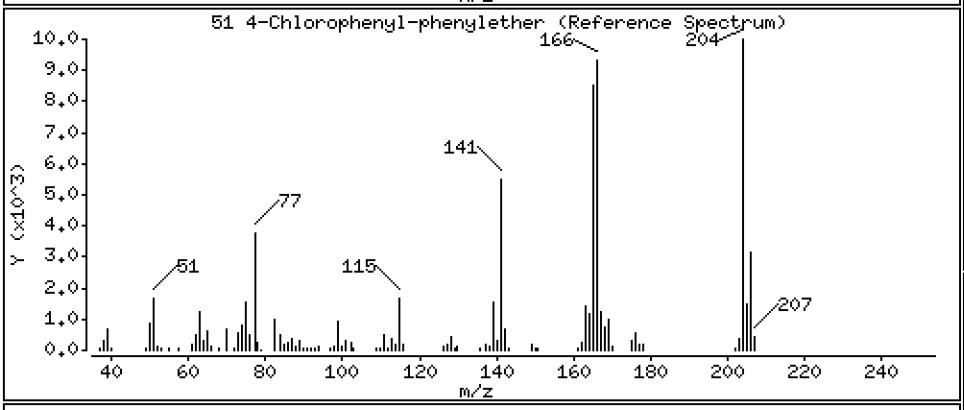
Concentration: 0.2115 ug/mL

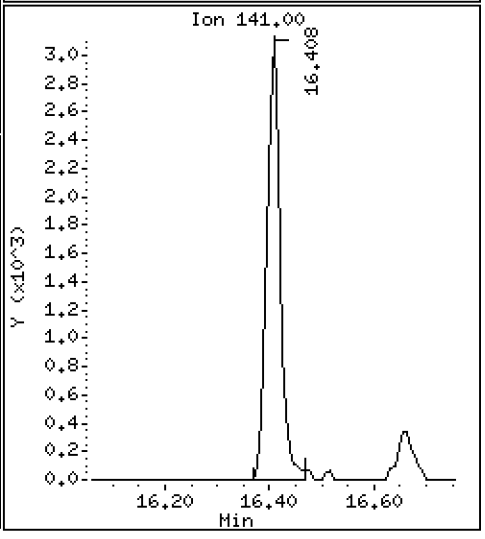


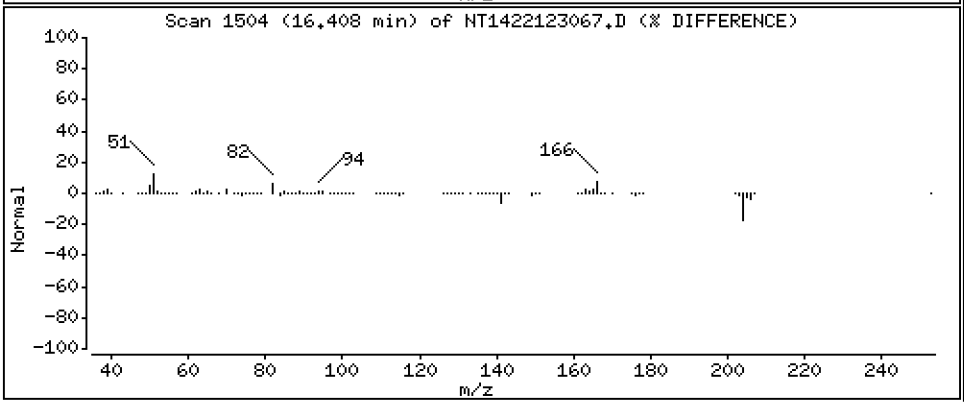












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

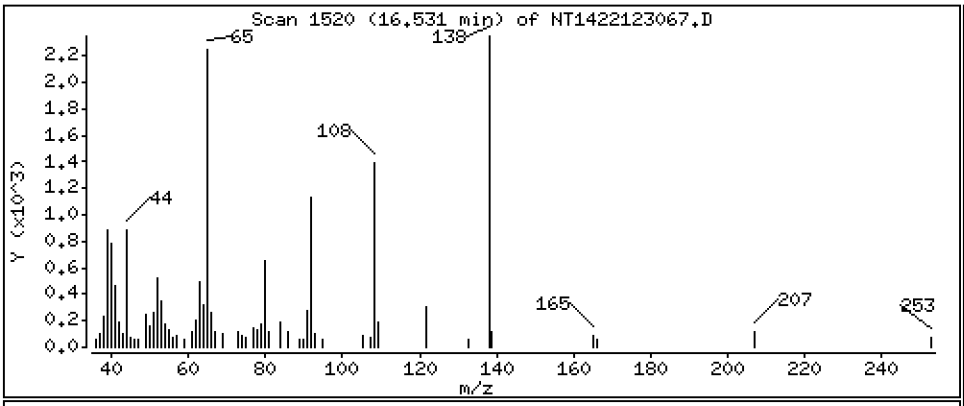
Operator: VTS

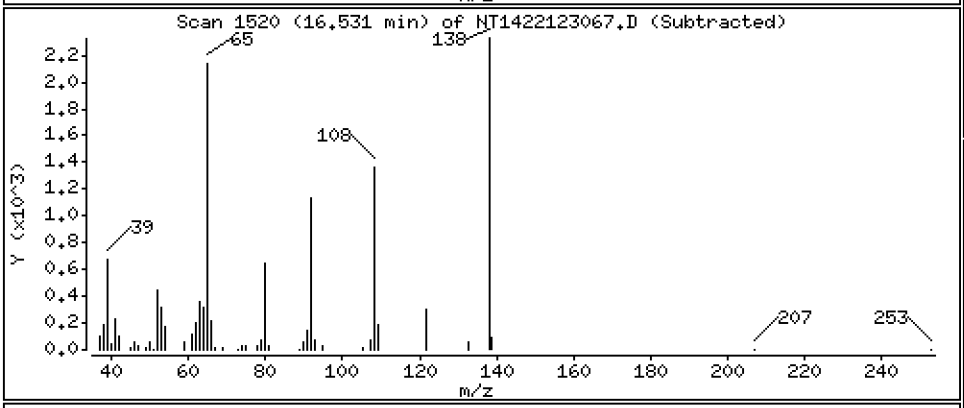
Column phase: ZB-5msi

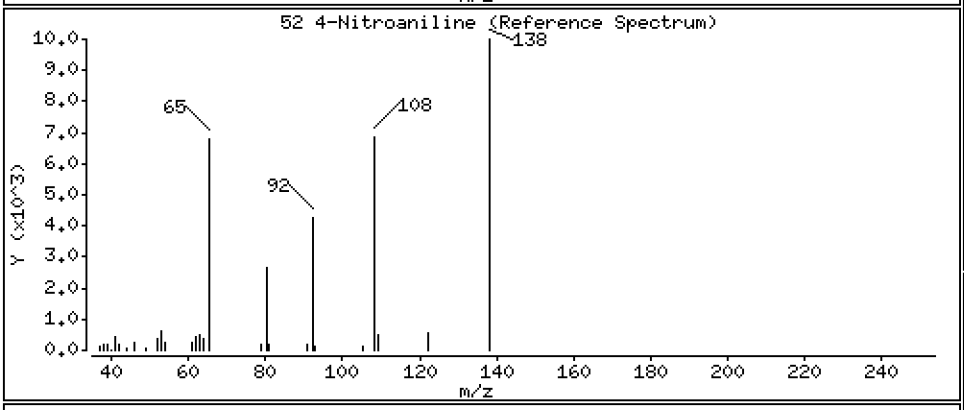
Column diameter: 0.25

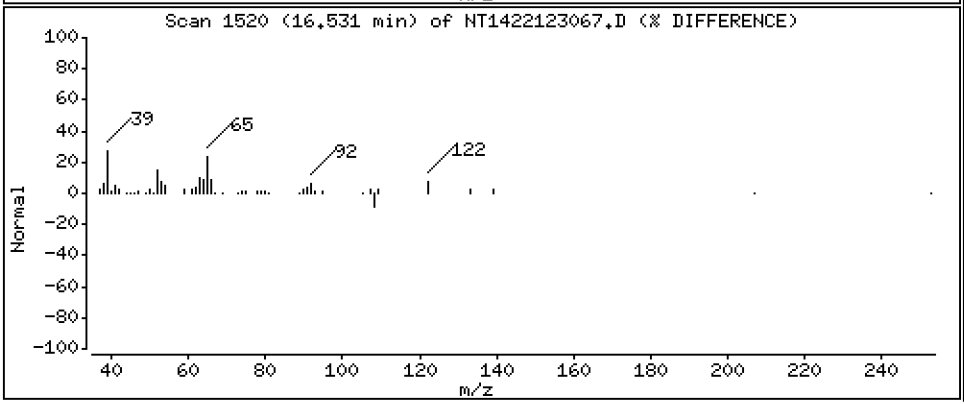
52 4-Nitroaniline

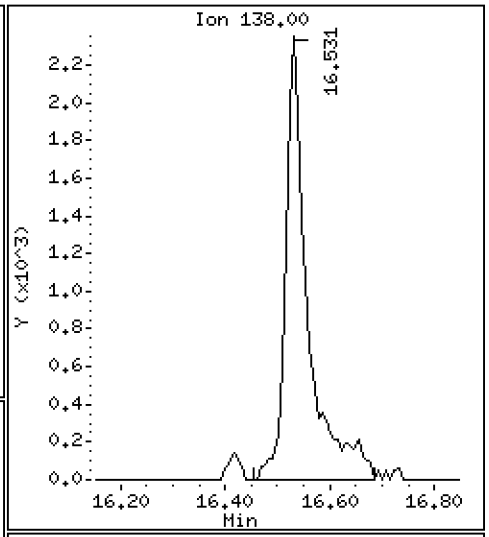
Concentration: 0.3738 ug/mL

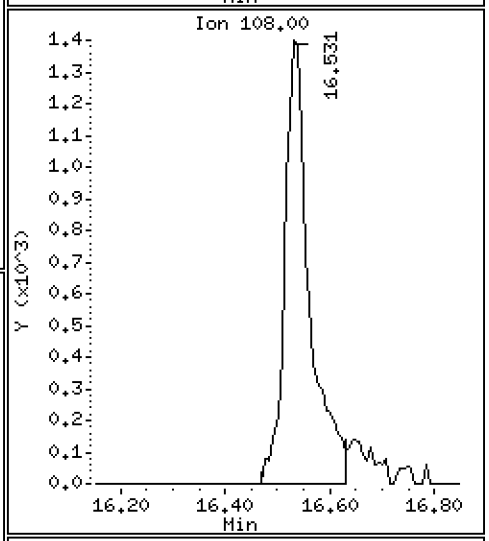


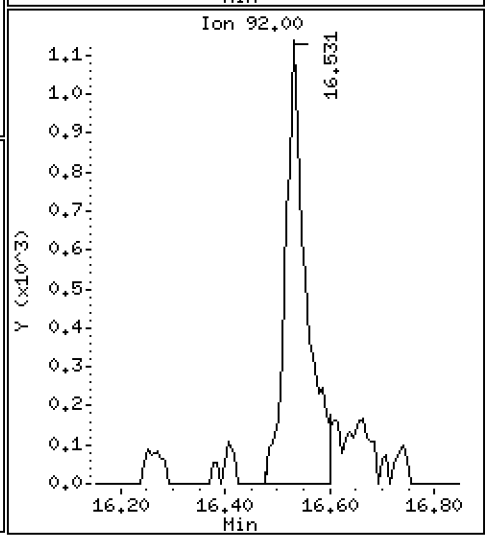












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

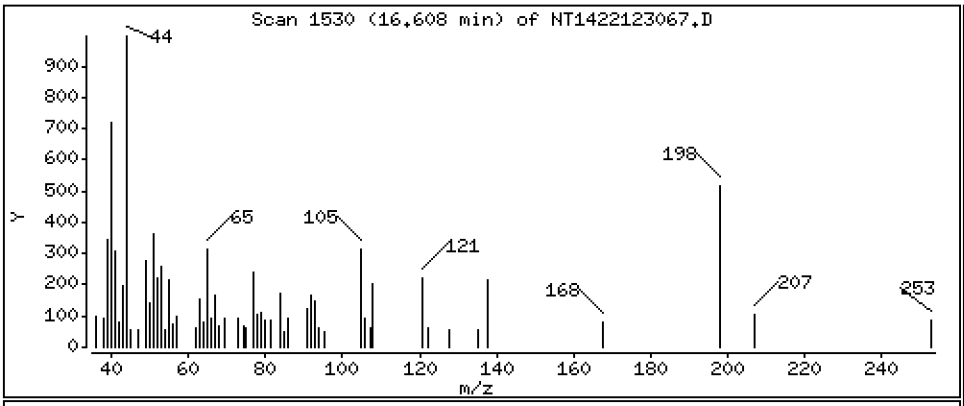
Operator: VTS

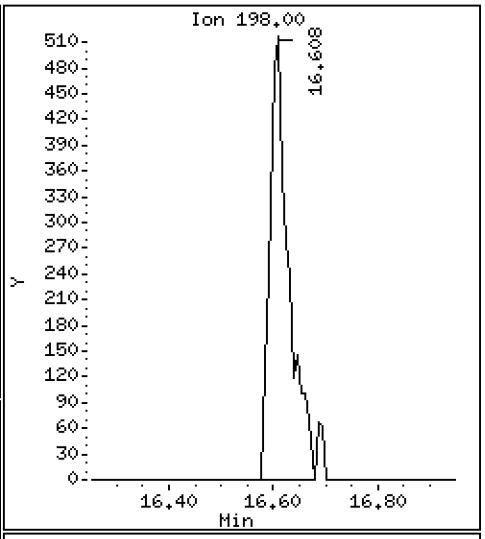
Column phase: ZB-5msi

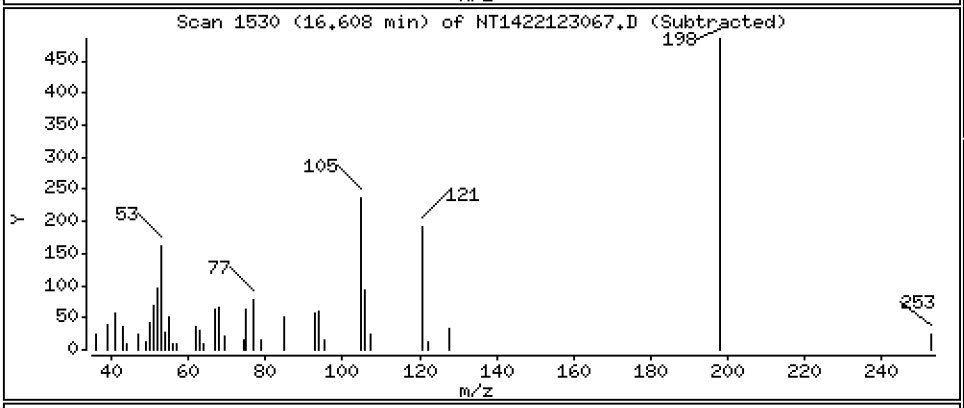
Column diameter: 0.25

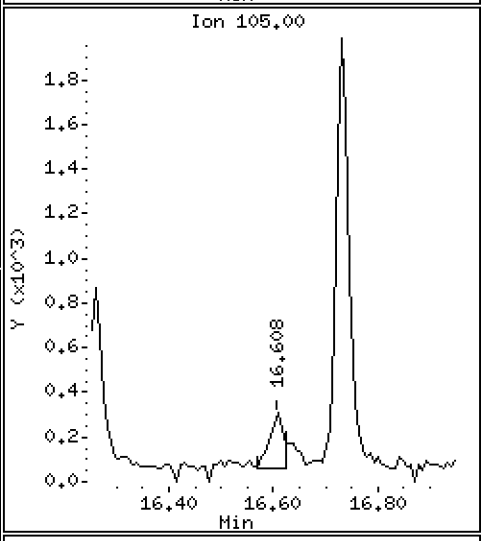
53 4,6-Dinitro-2-methylphenol

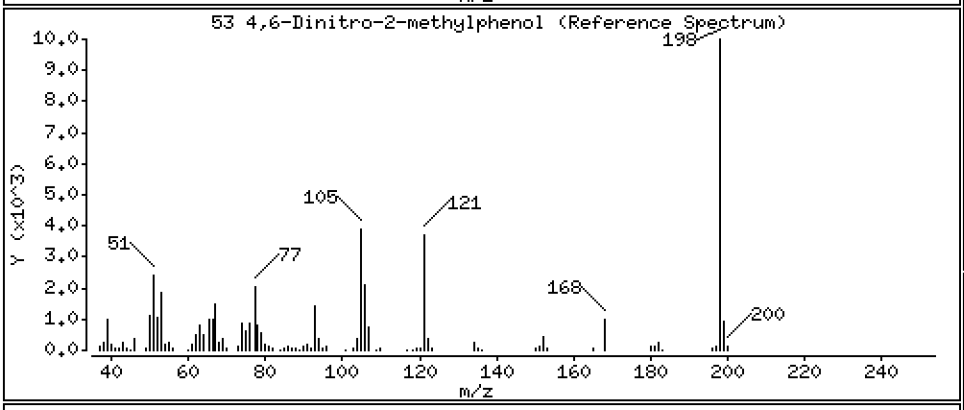
Concentration: 0.09261 ug/mL

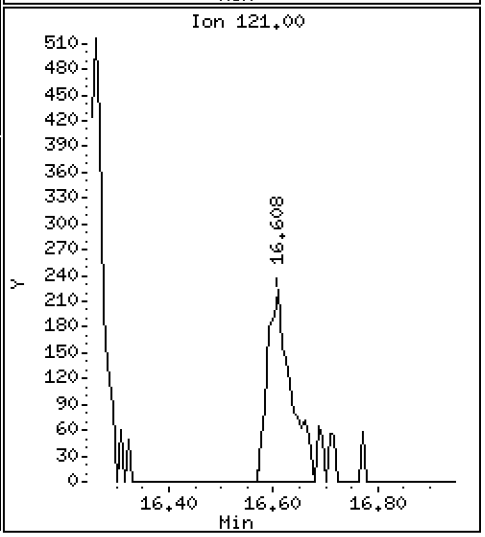


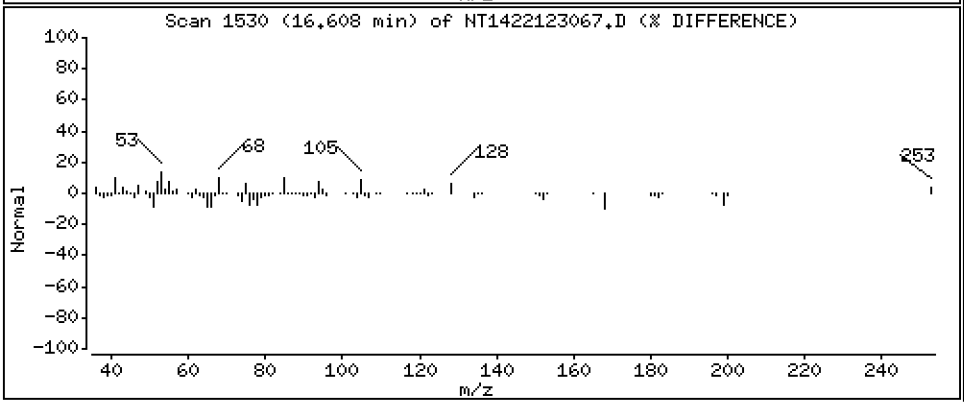












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

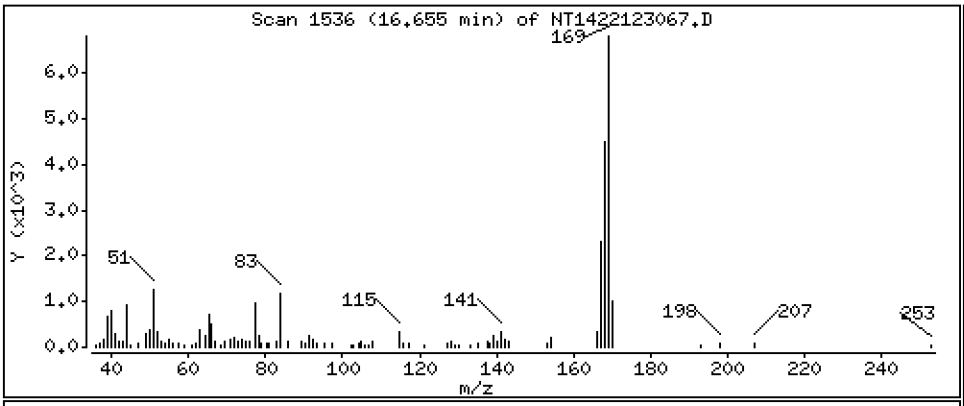
Operator: VTS

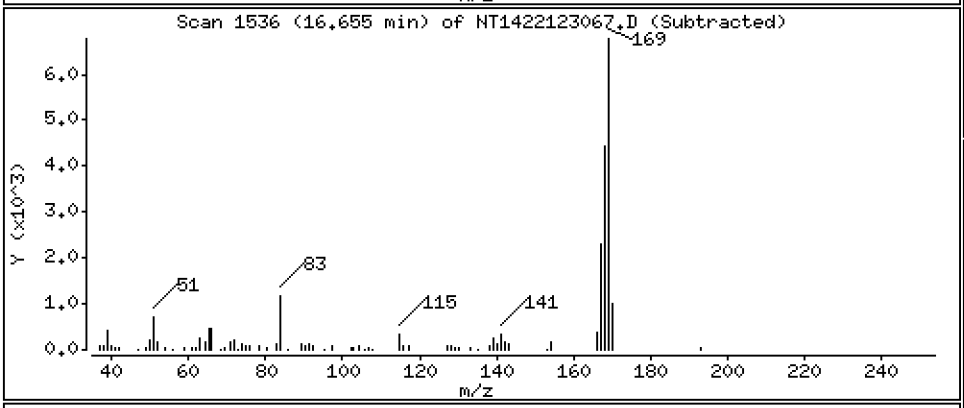
Column phase: ZB-5msi

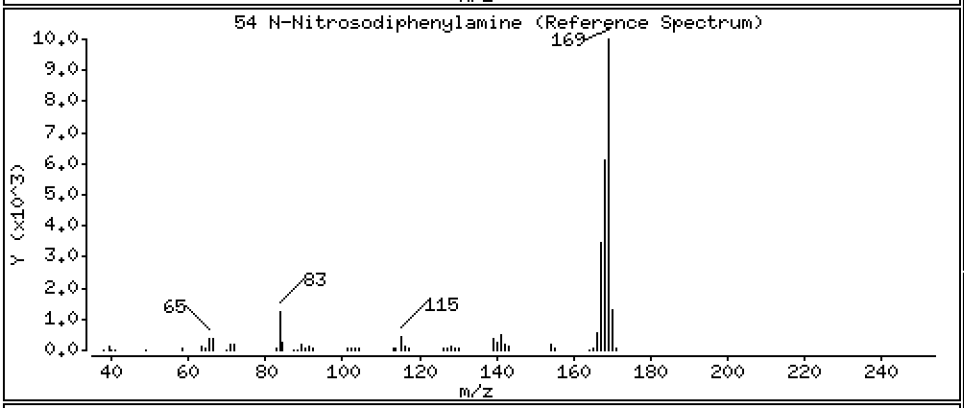
Column diameter: 0.25

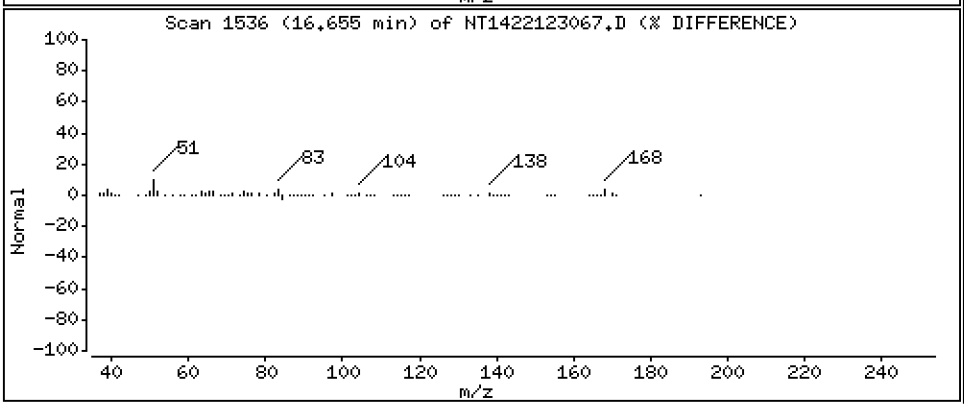
54 N-Nitrosodiphenylamine

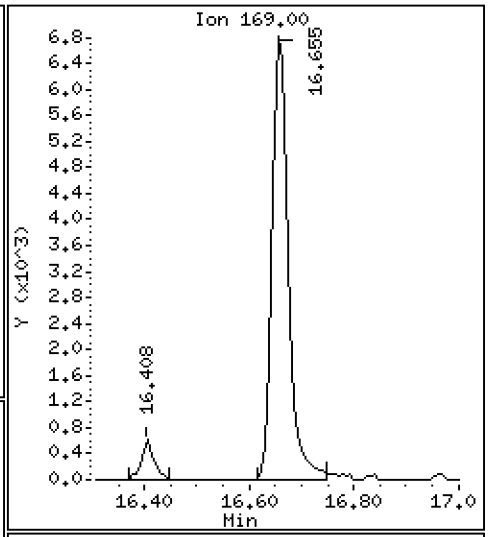
Concentration: 0.2509 ug/mL

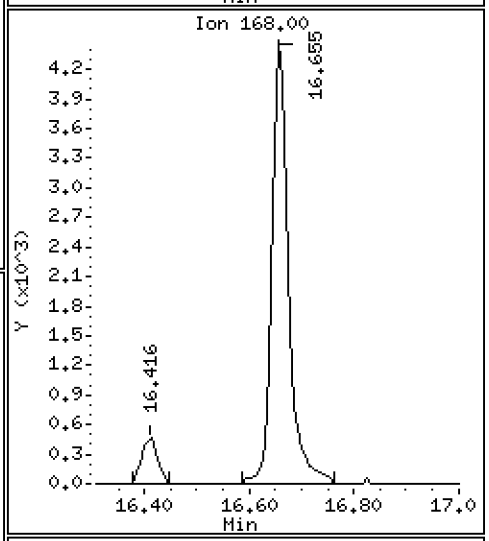


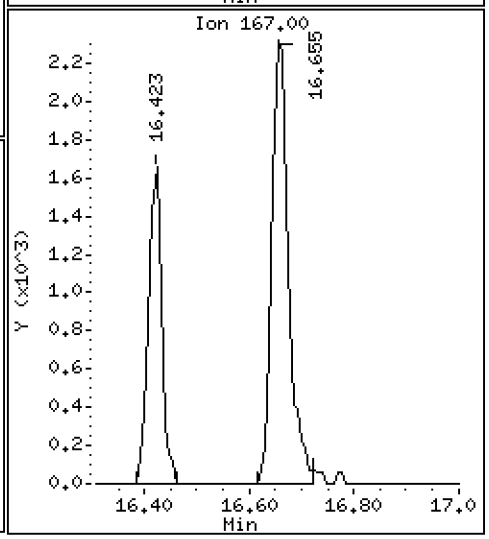












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

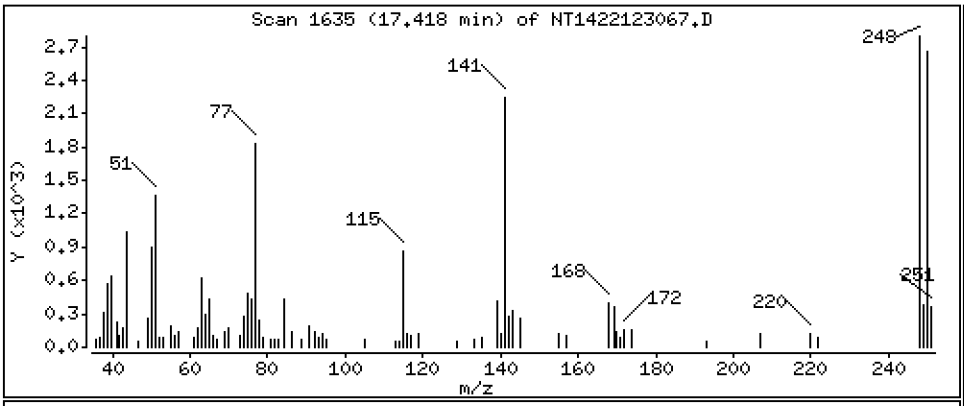
Operator: VTS

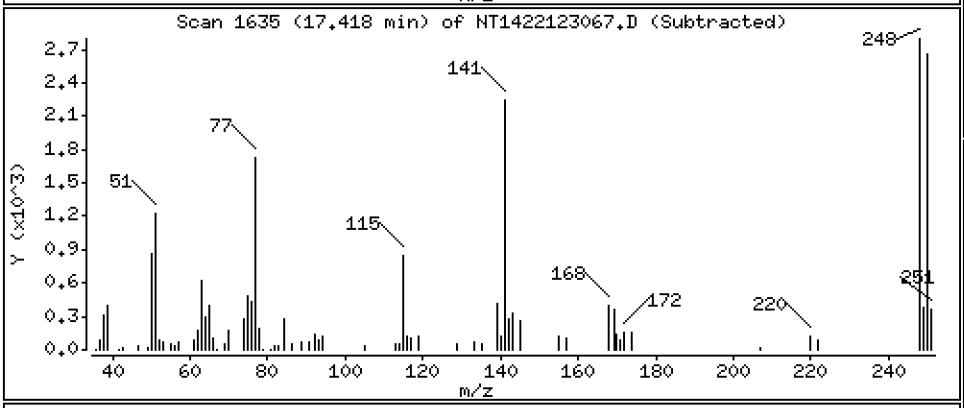
Column phase: ZB-5msi

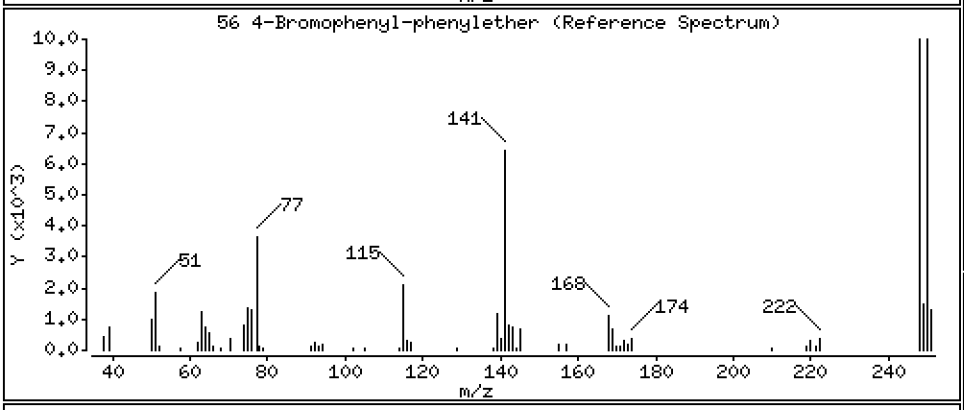
Column diameter: 0.25

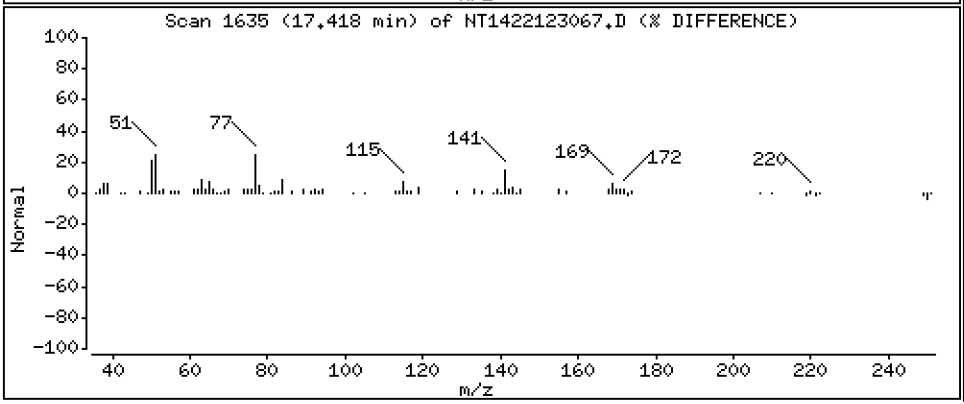
56 4-Bromophenyl-phenylether

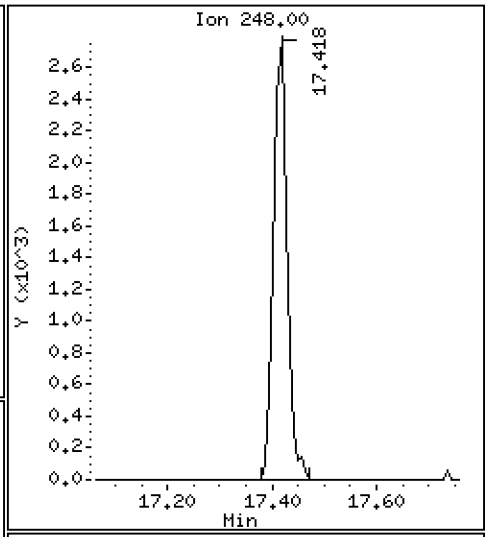
Concentration: 0.2232 ug/mL

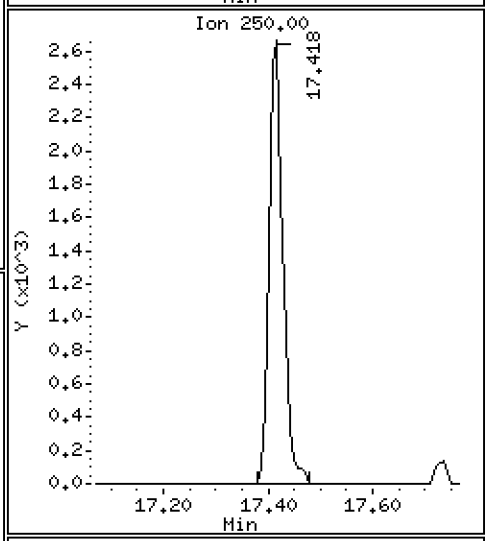


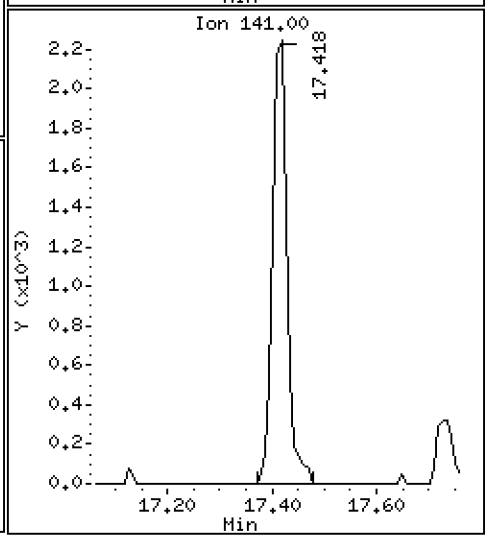












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

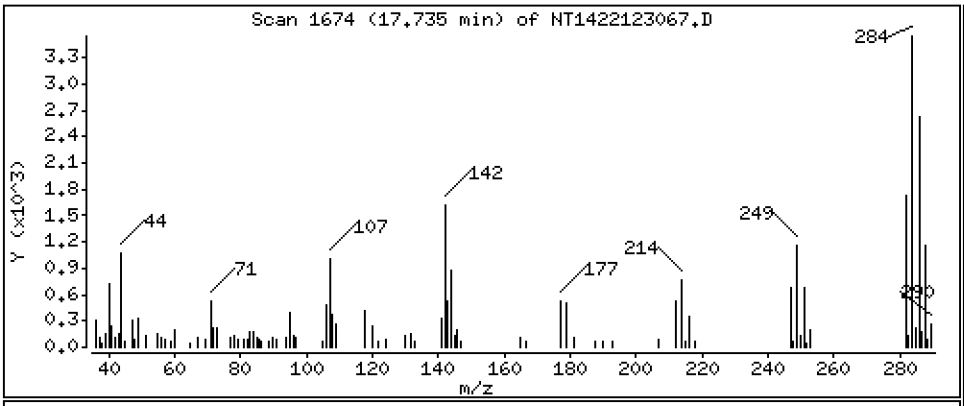
Operator: VTS

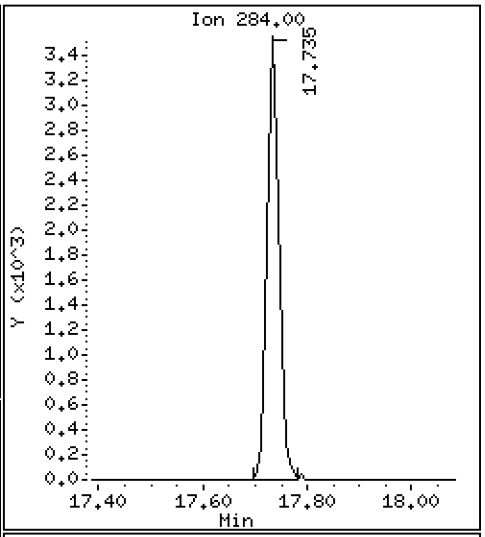
Column phase: ZB-5msi

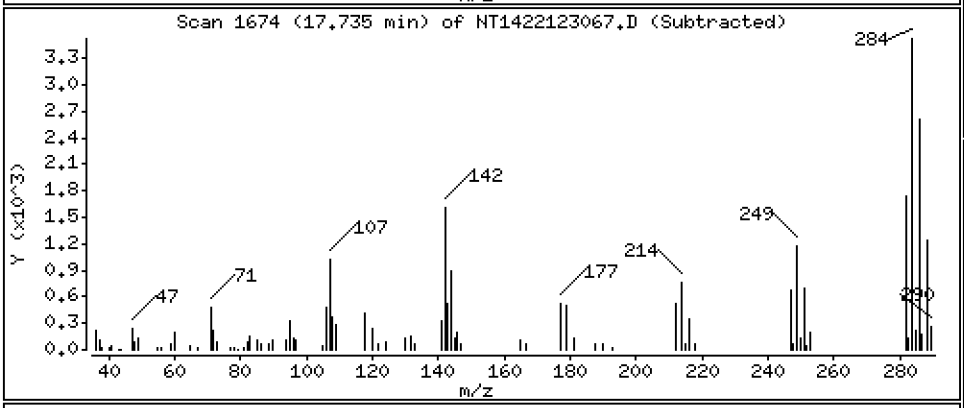
Column diameter: 0.25

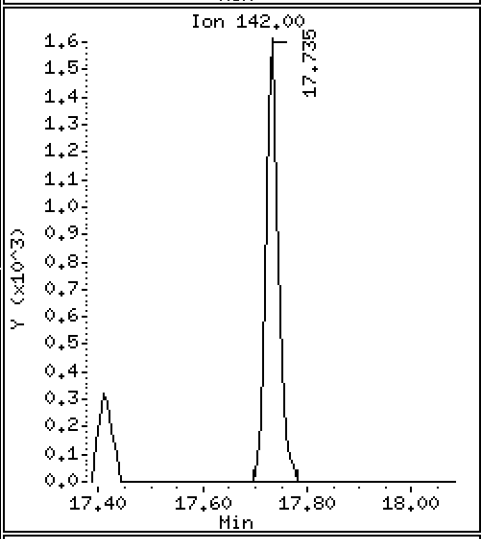
57 Hexachlorobenzene

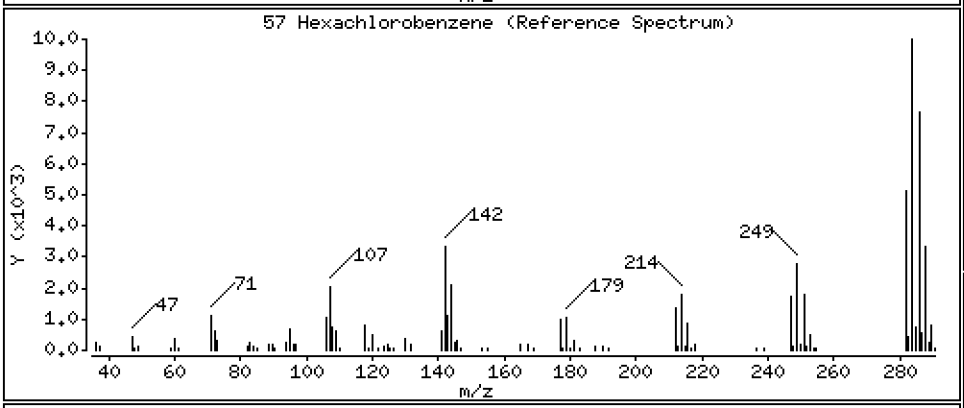
Concentration: 0.2368 ug/mL

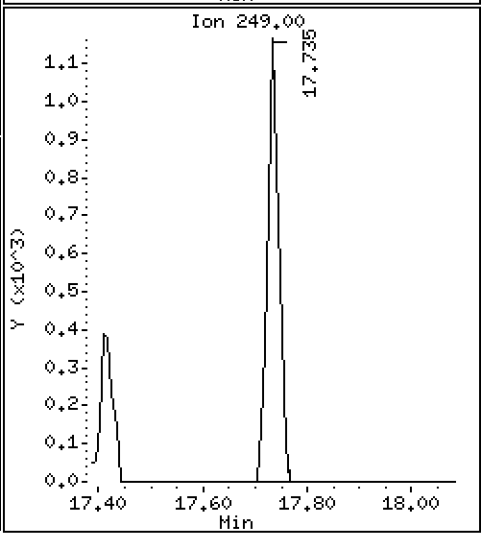


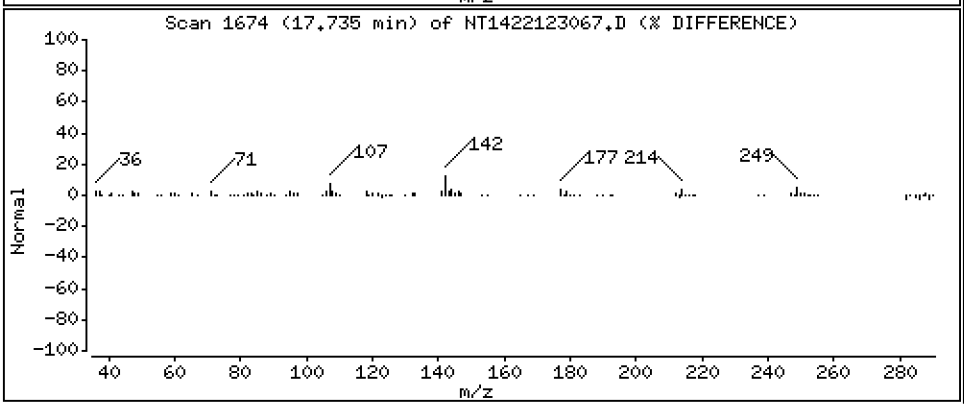












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

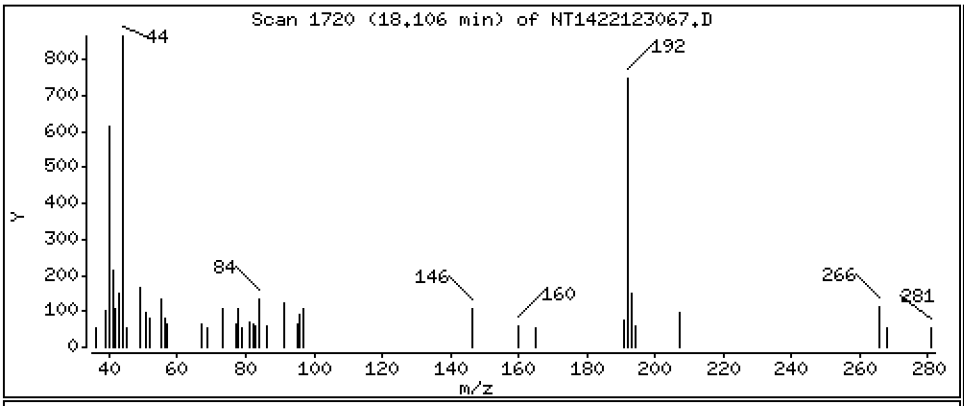
Operator: VTS

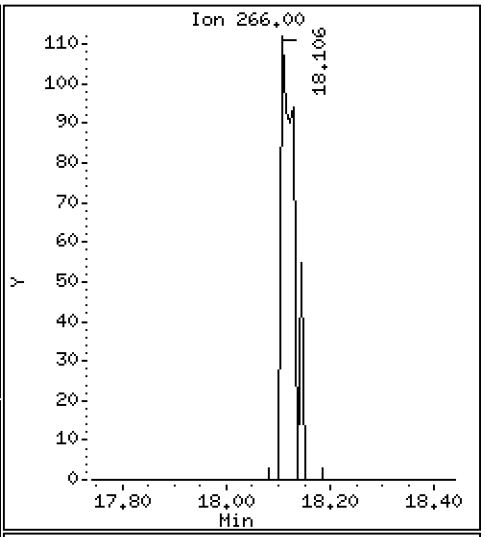
Column phase: ZB-5msi

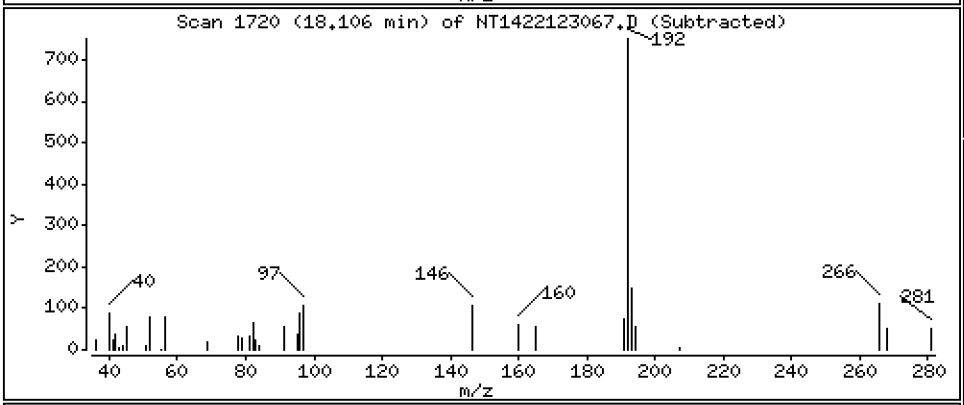
Column diameter: 0.25

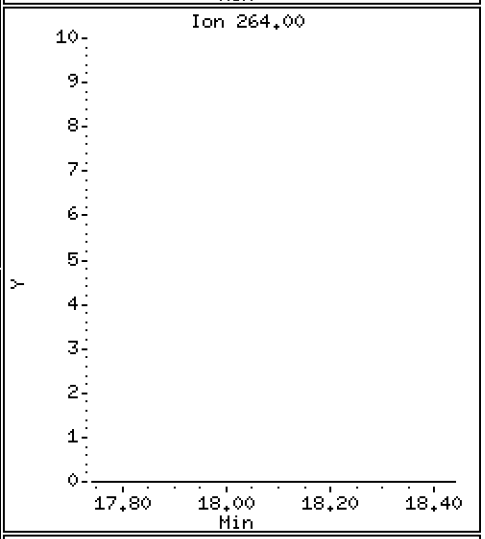
58 Pentachlorophenol

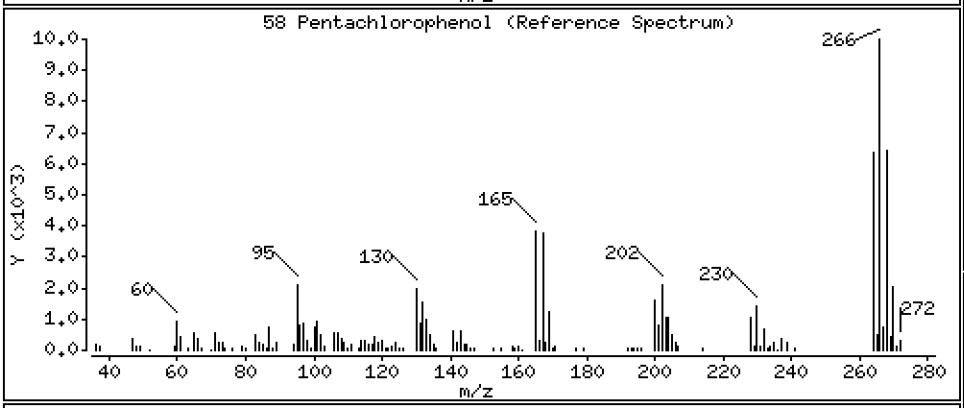
Concentration: 0.02024 ug/mL

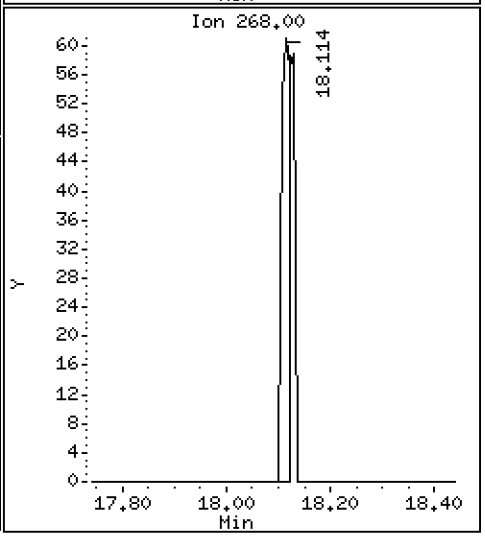


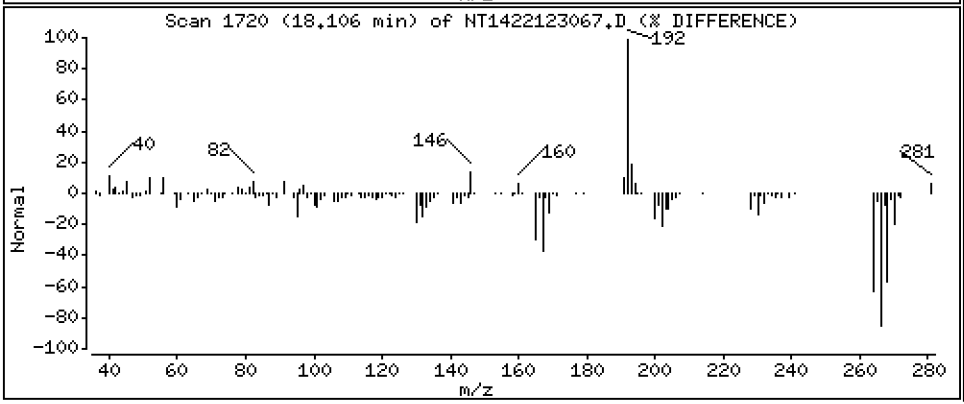












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

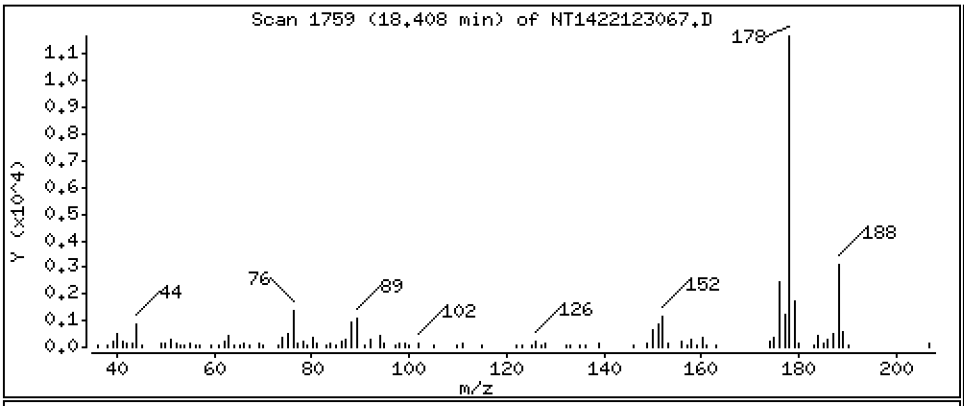
Operator: VTS

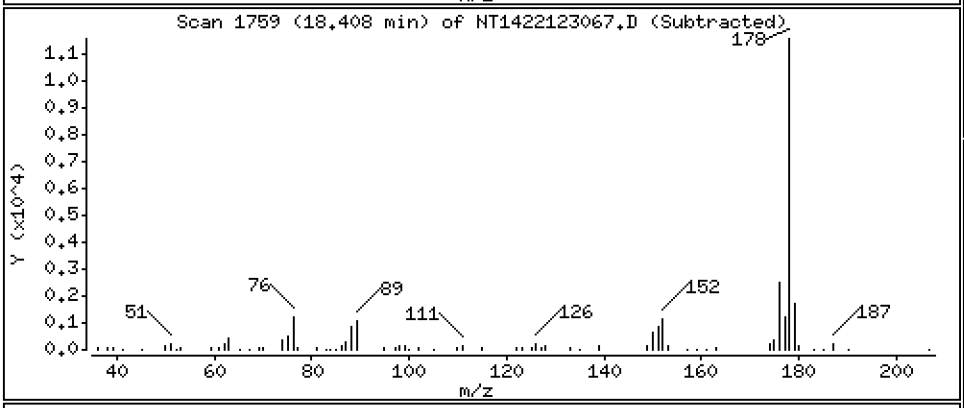
Column phase: ZB-5msi

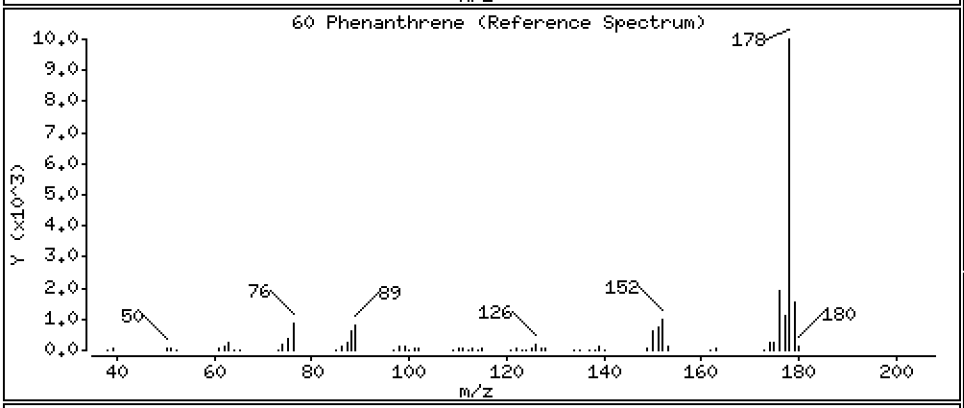
Column diameter: 0.25

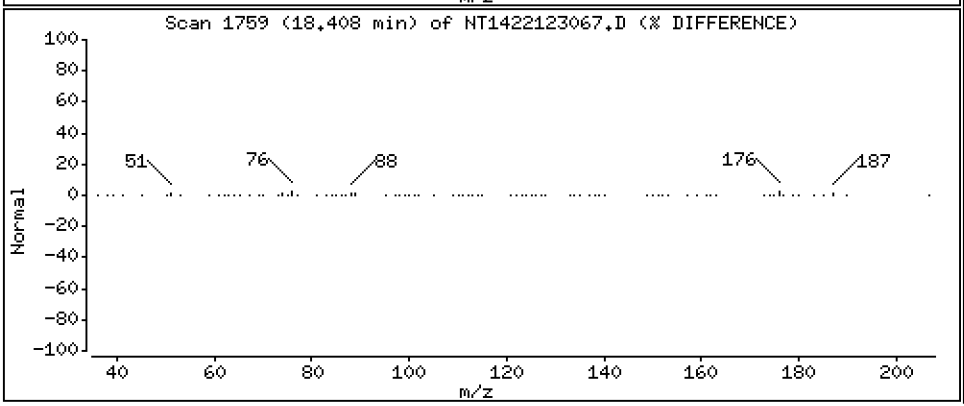
60 Phenanthrene

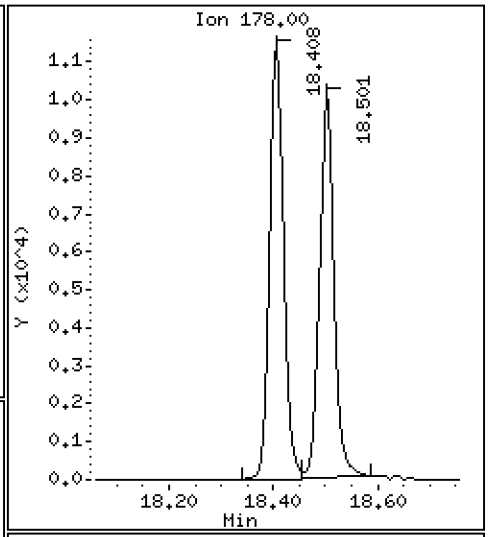
Concentration: 0.2396 ug/mL

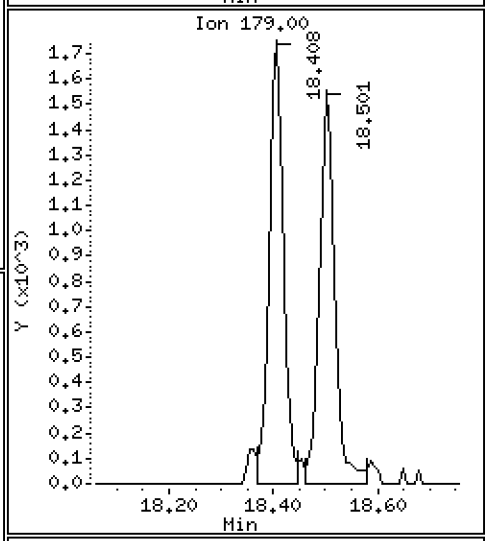


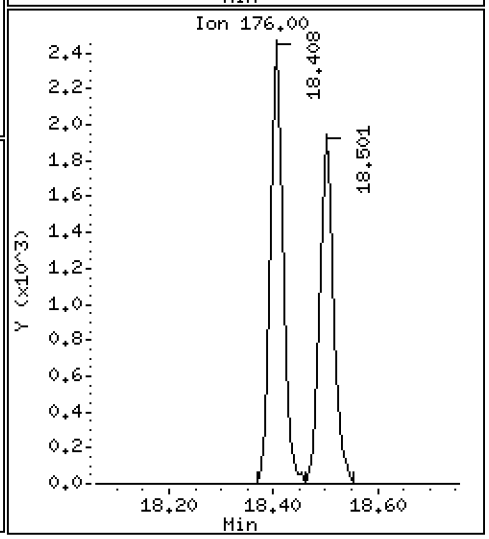












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

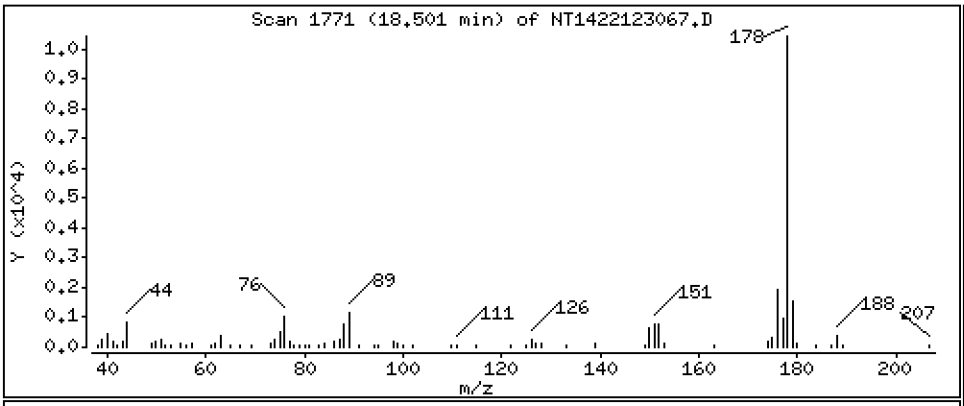
Operator: VTS

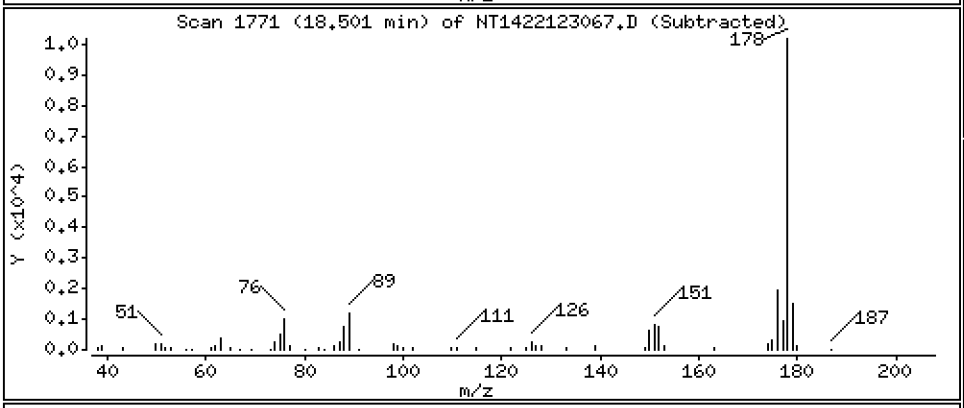
Column phase: ZB-5msi

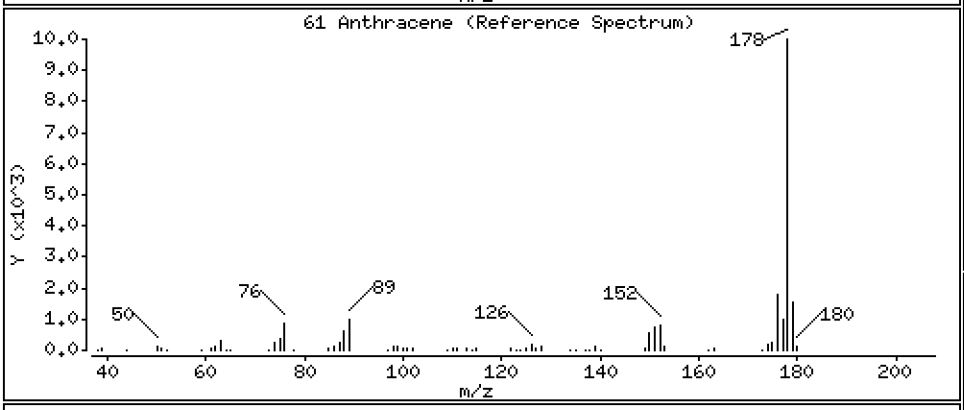
Column diameter: 0.25

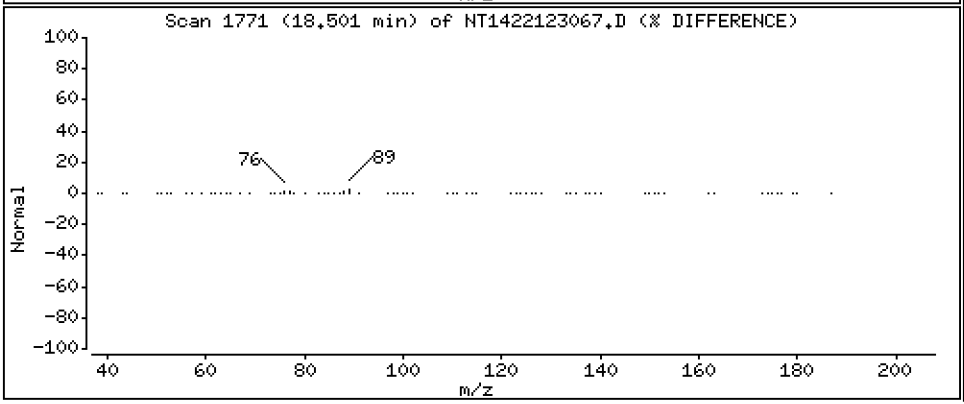
61 Anthracene

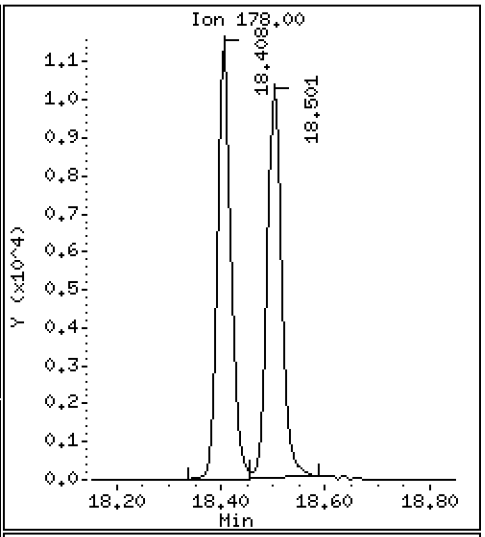
Concentration: 0.2322 ug/mL

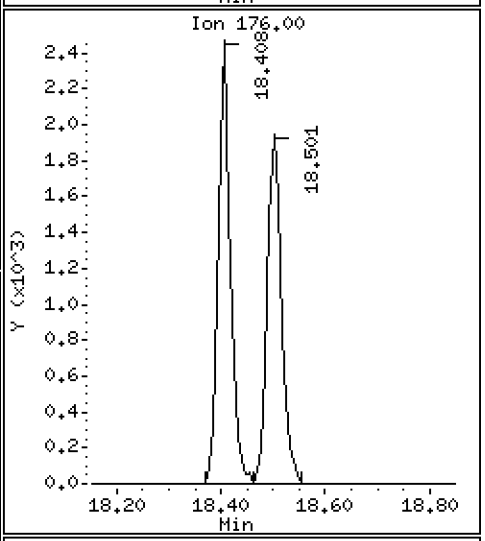


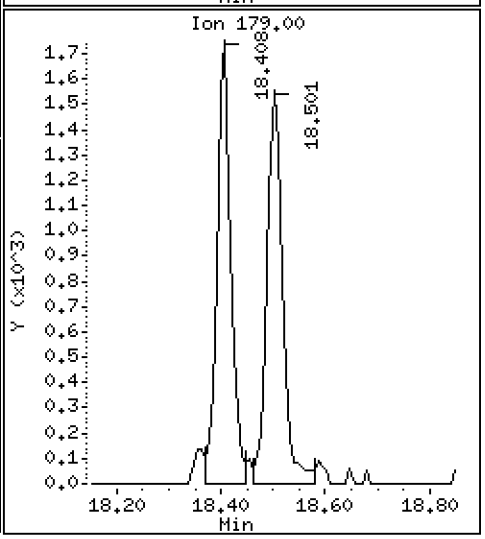












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

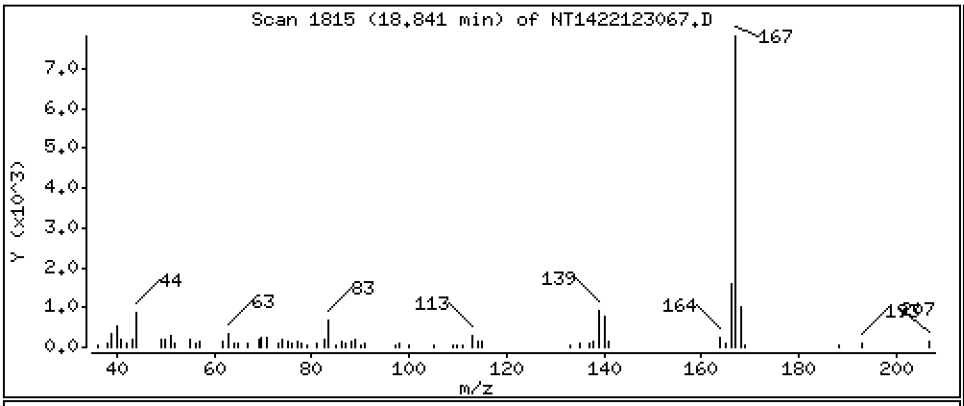
Operator: VTS

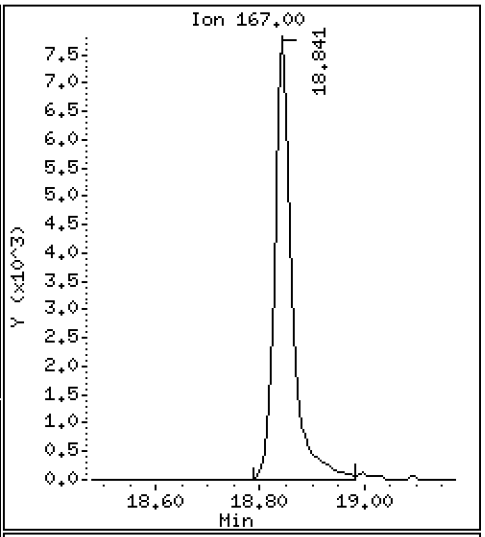
Column phase: ZB-5msi

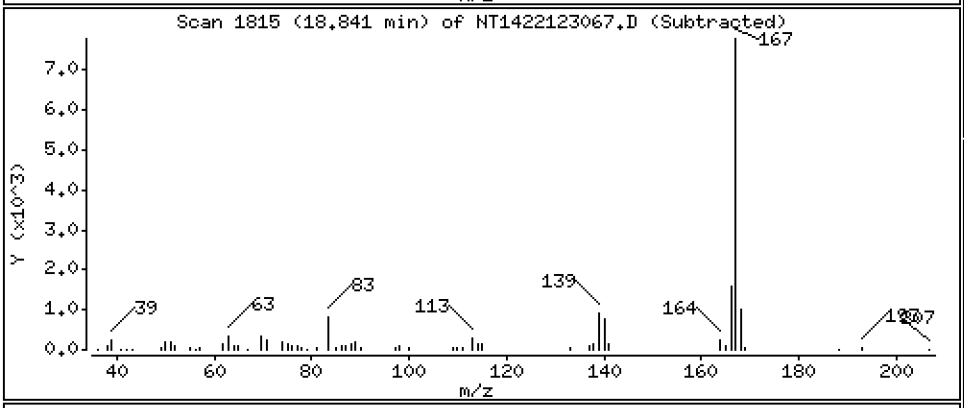
Column diameter: 0.25

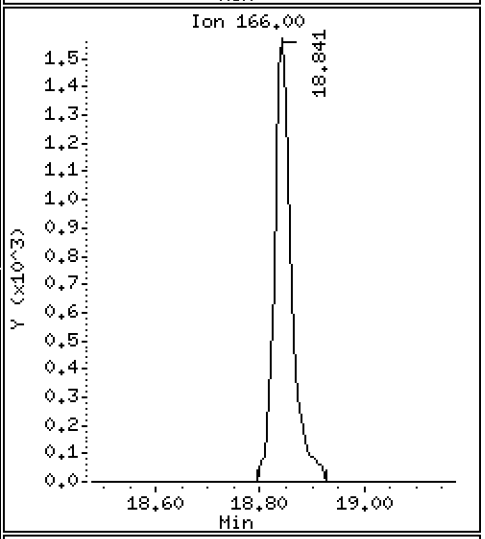
62 Carbazole

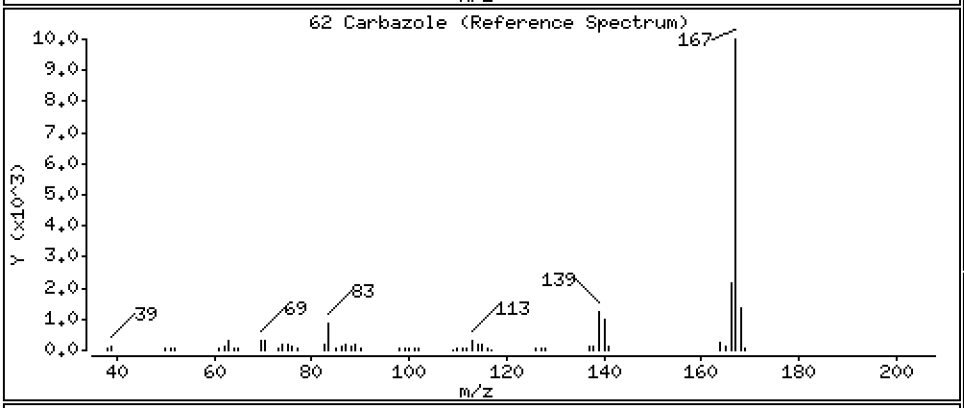
Concentration: 0.2308 ug/mL

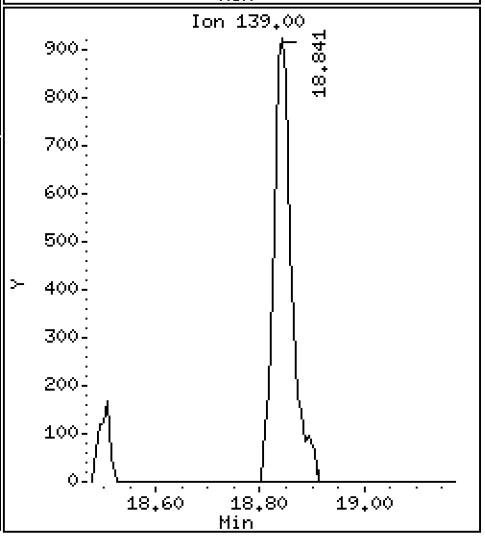


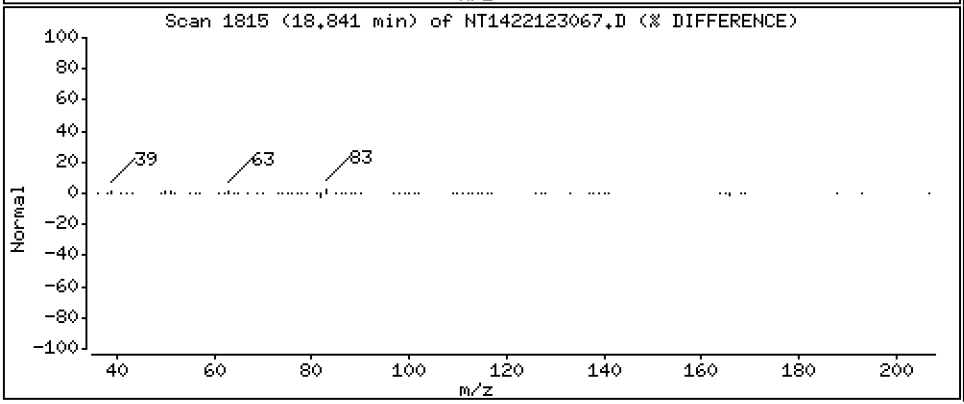












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

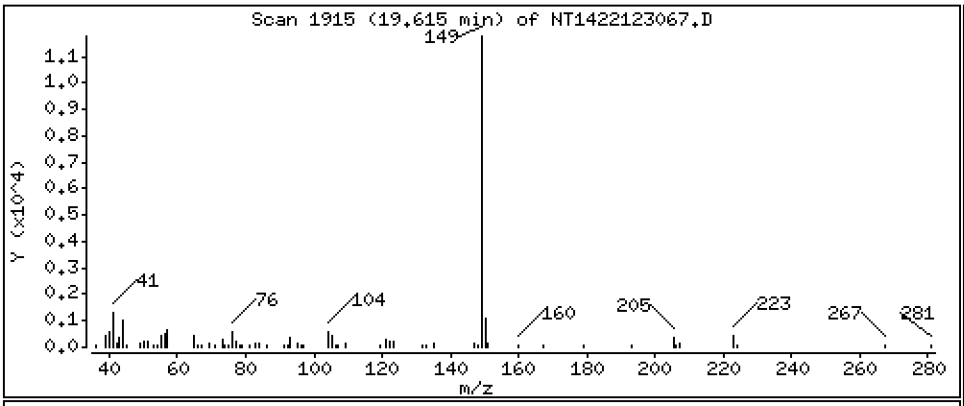
Operator: VTS

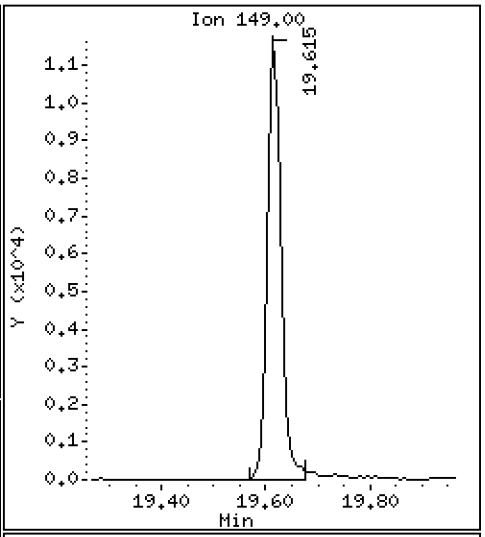
Column phase: ZB-5msi

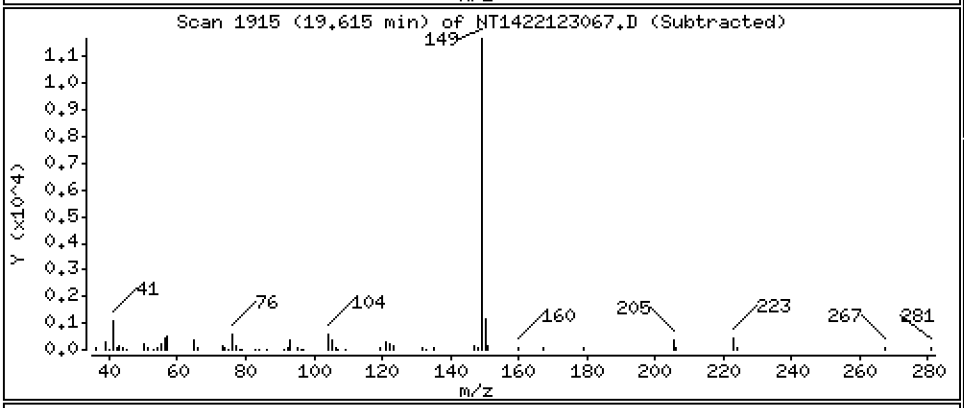
Column diameter: 0.25

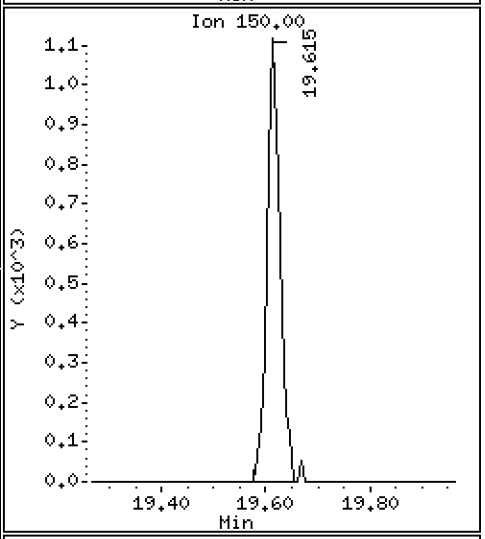
63 Di-n-butylphthalate

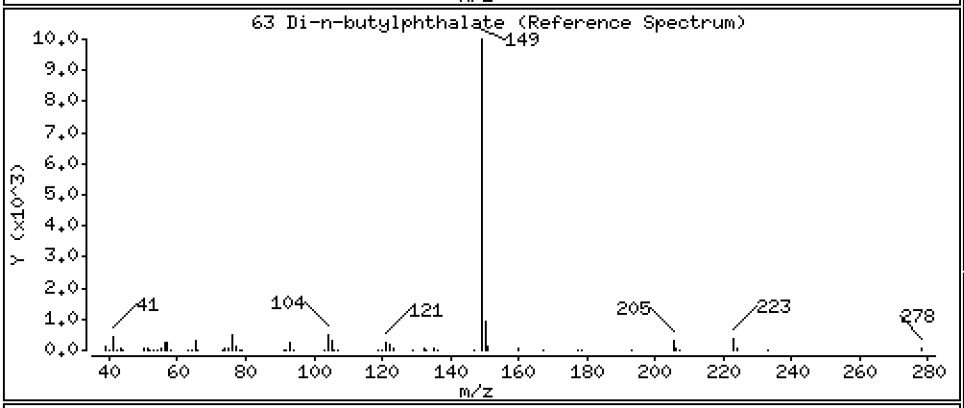
Concentration: 0.2273 ug/mL

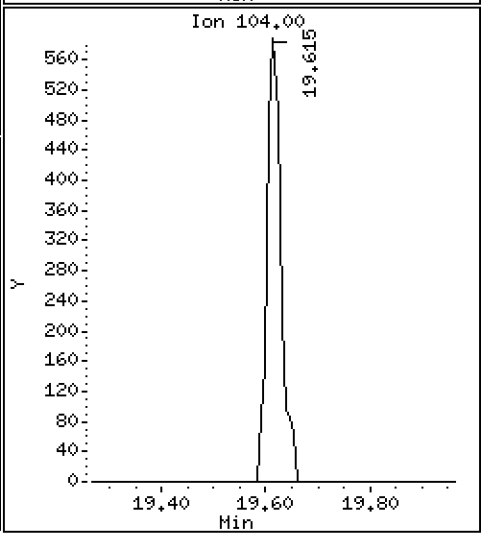


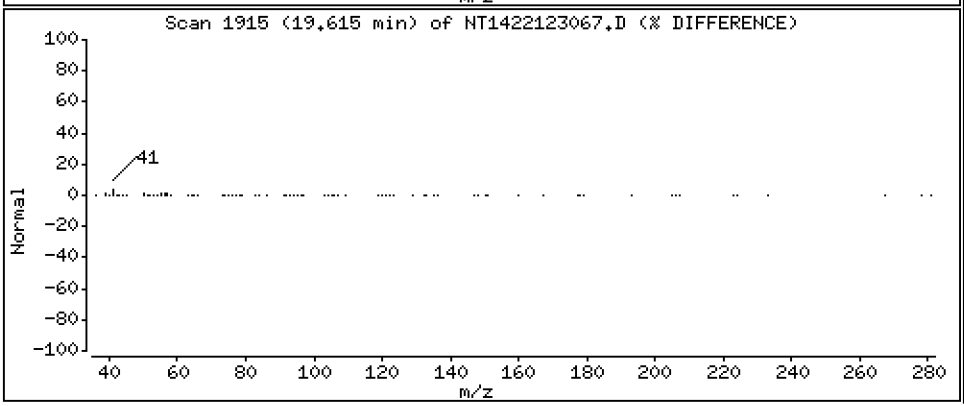












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

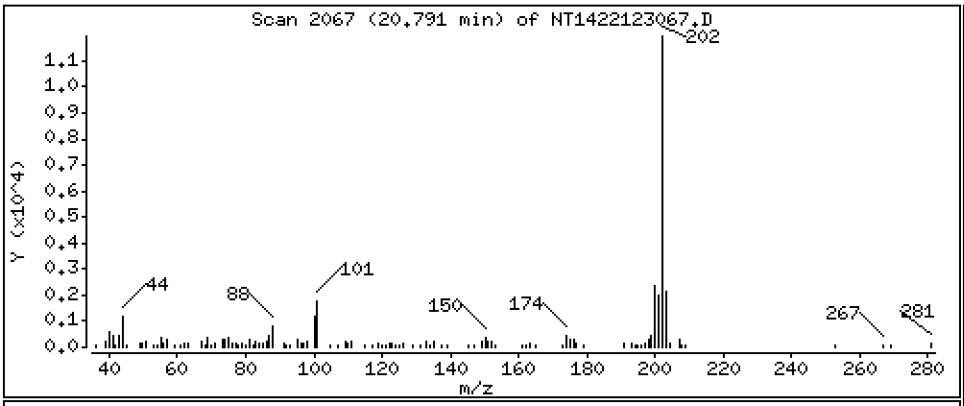
Operator: VTS

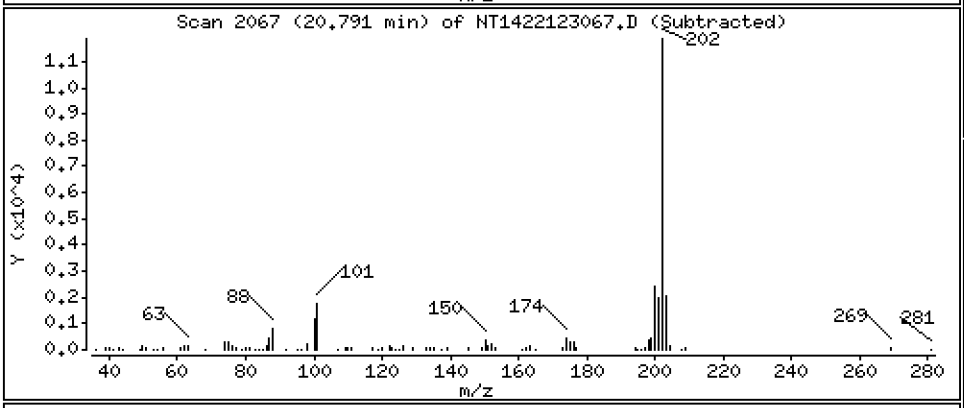
Column phase: ZB-5msi

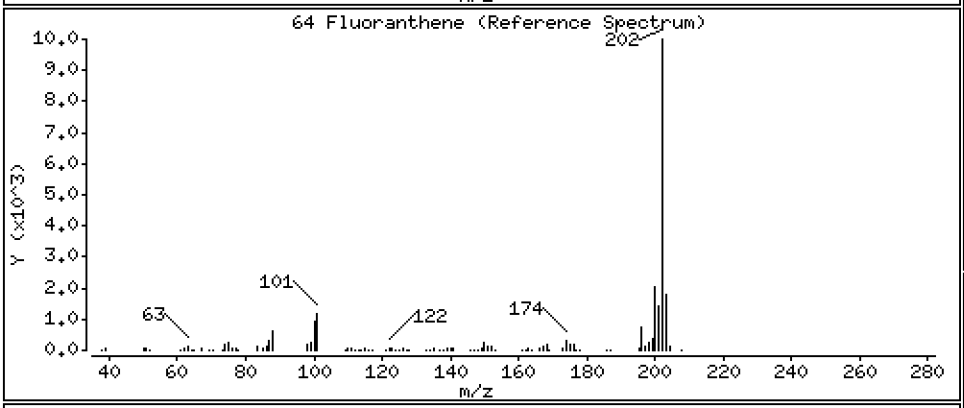
Column diameter: 0.25

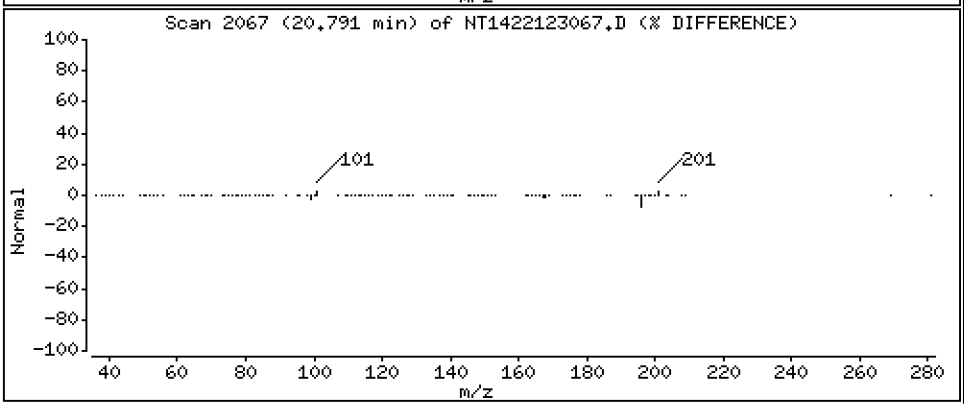
64 Fluoranthene

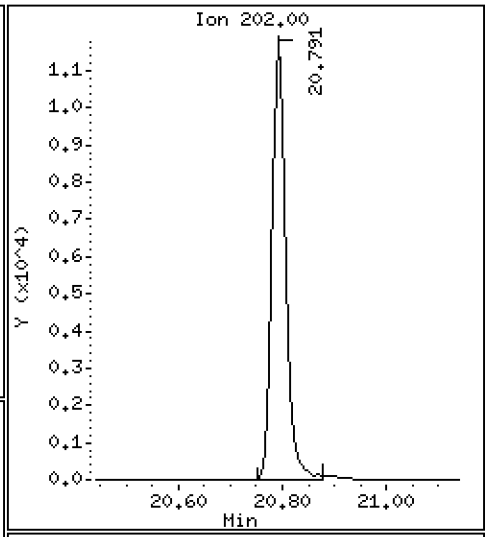
Concentration: 0.2381 ug/mL

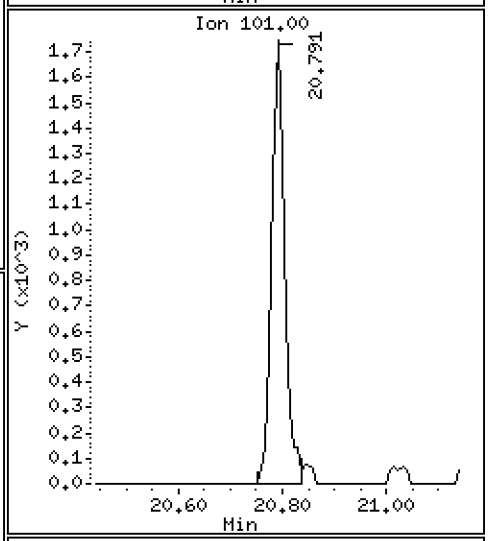


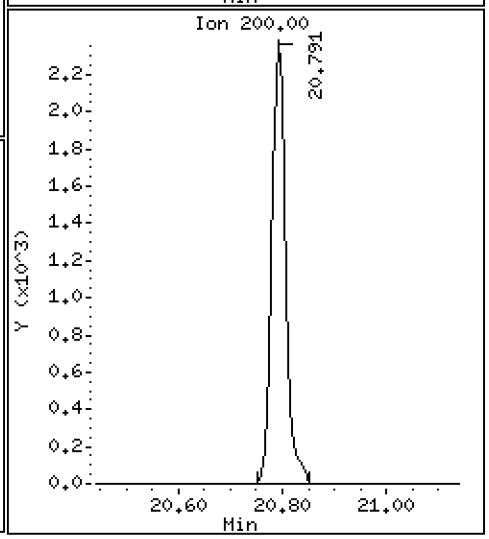












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

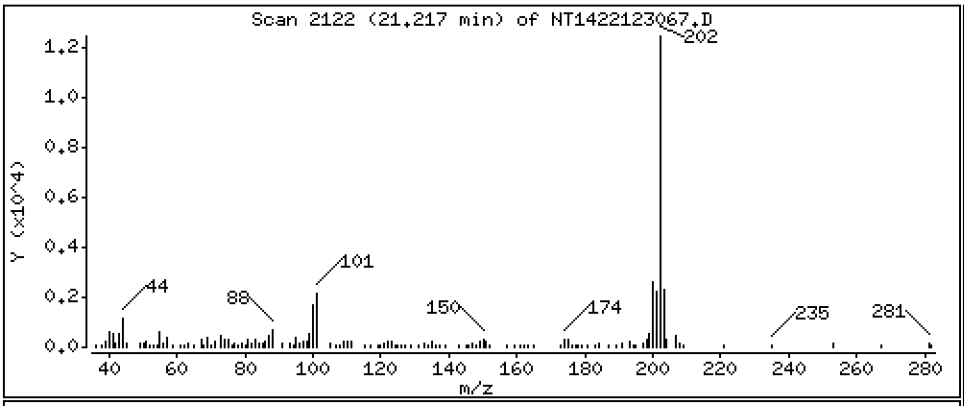
Operator: VTS

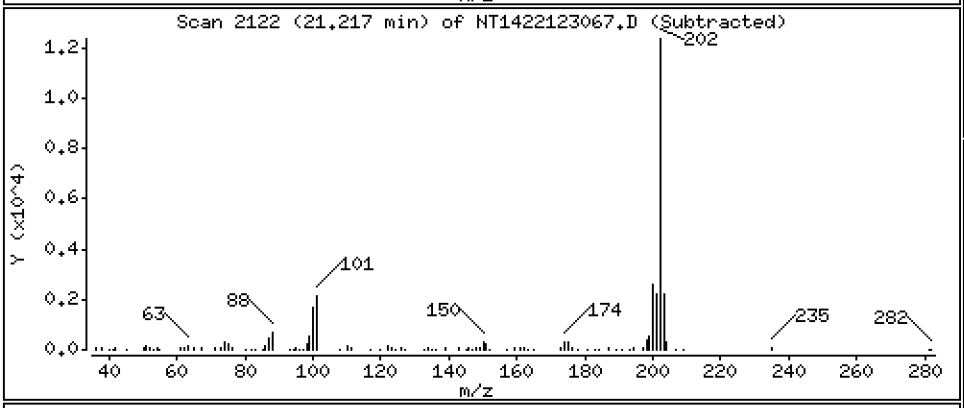
Column phase: ZB-5msi

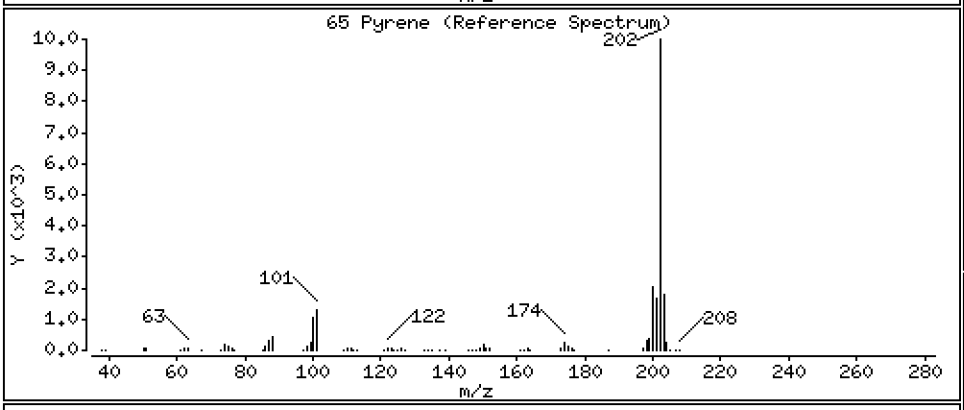
Column diameter: 0.25

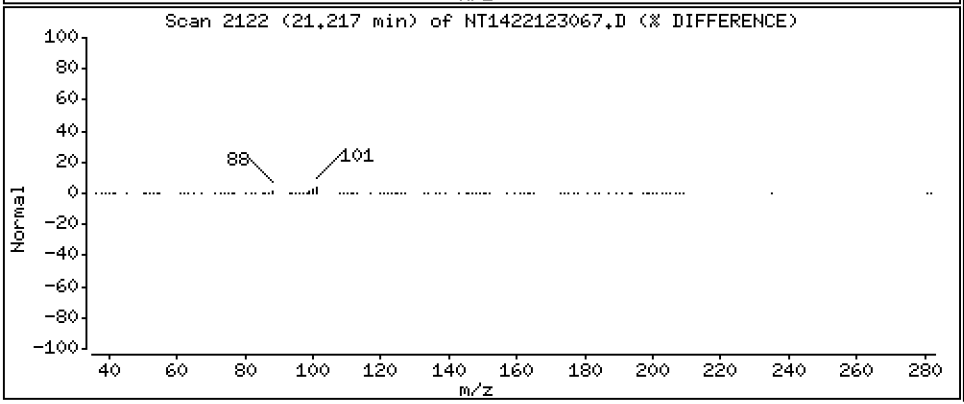
65 Pyrene

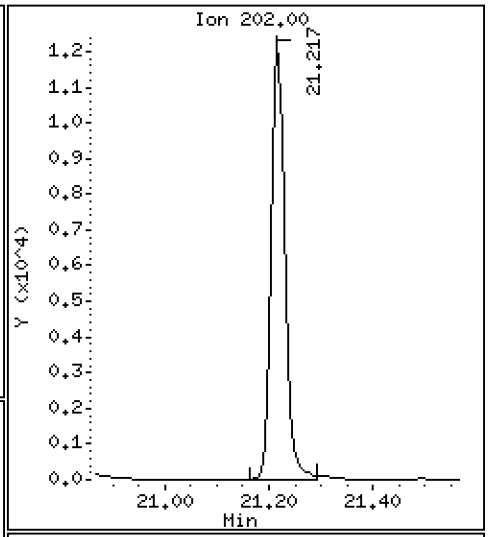
Concentration: 0.2334 ug/mL

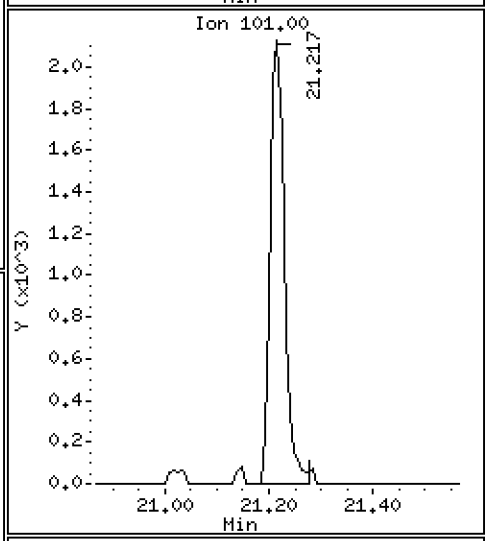


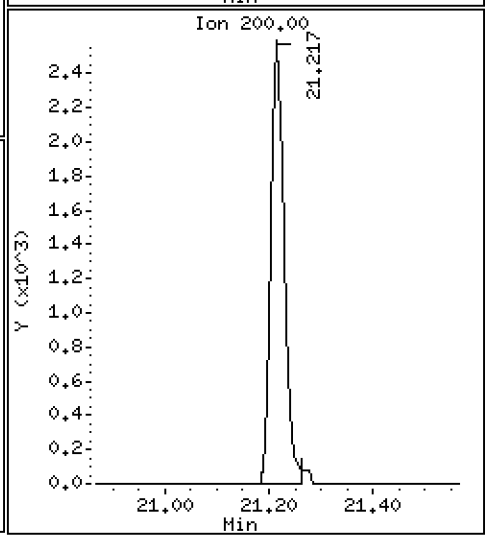












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

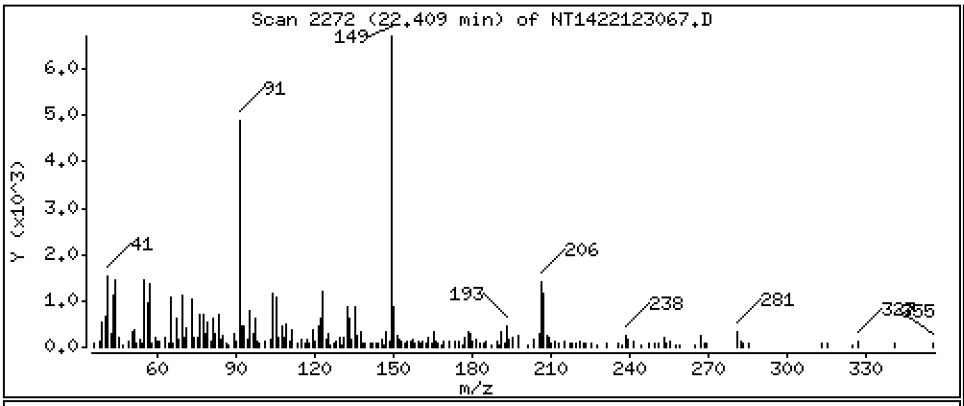
Operator: VTS

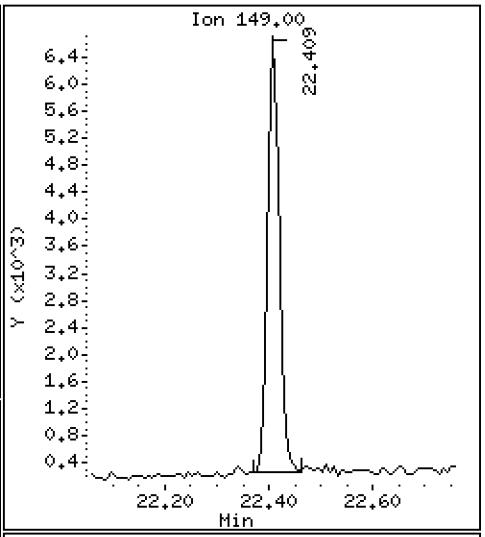
Column phase: ZB-5msi

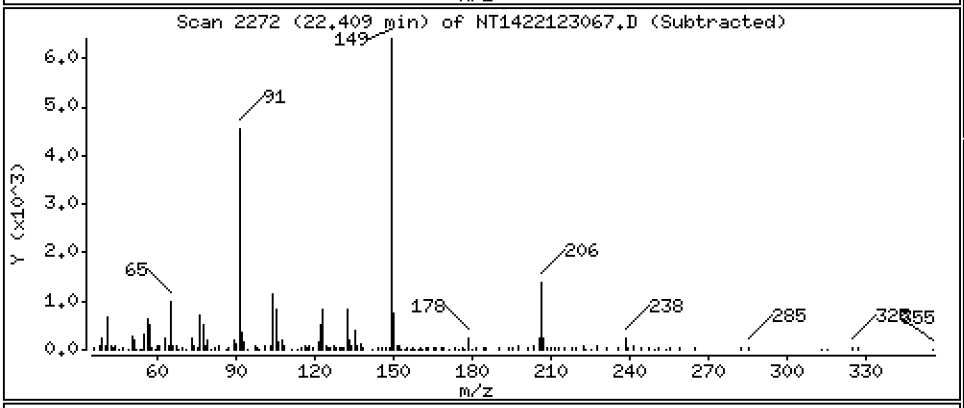
Column diameter: 0.25

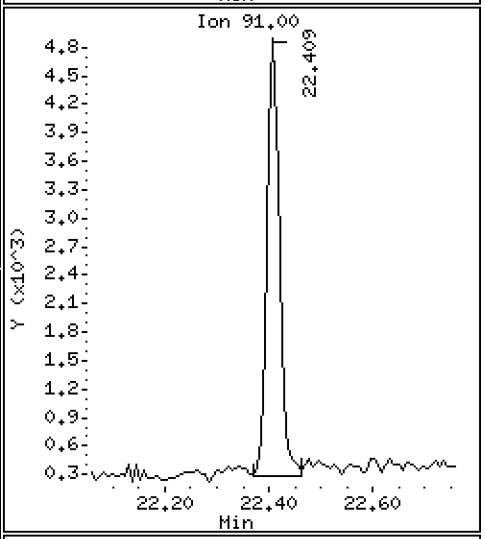
67 Butylbenzylphthalate

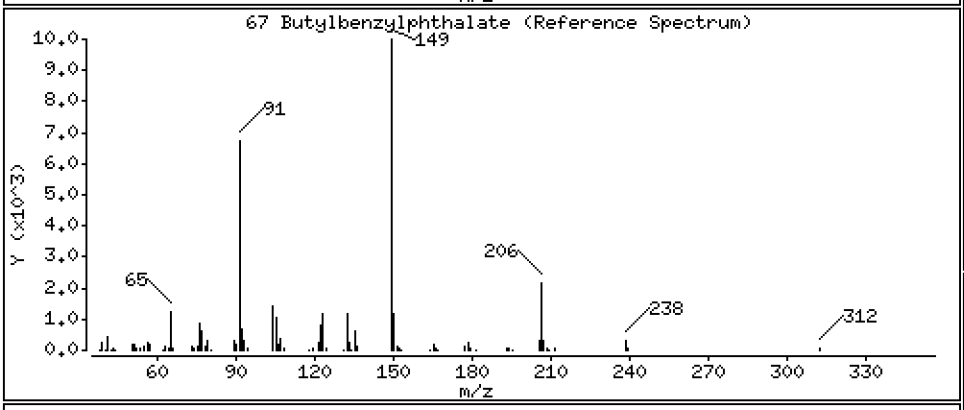
Concentration: 0.2699 ug/mL

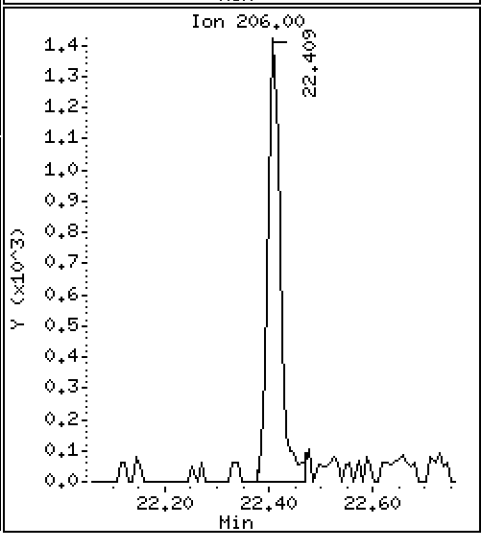


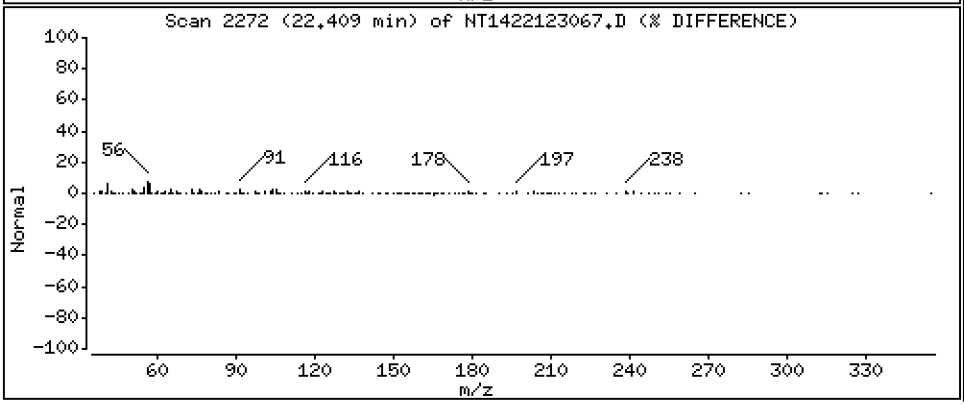












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

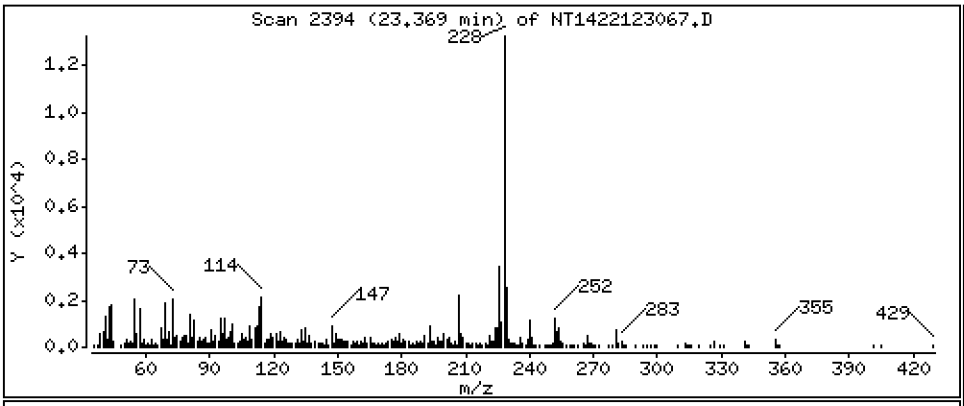
Operator: VTS

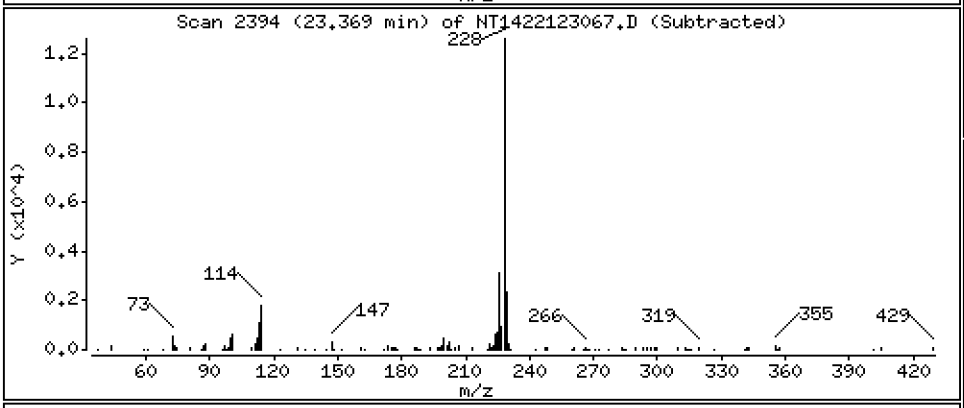
Column phase: ZB-5msi

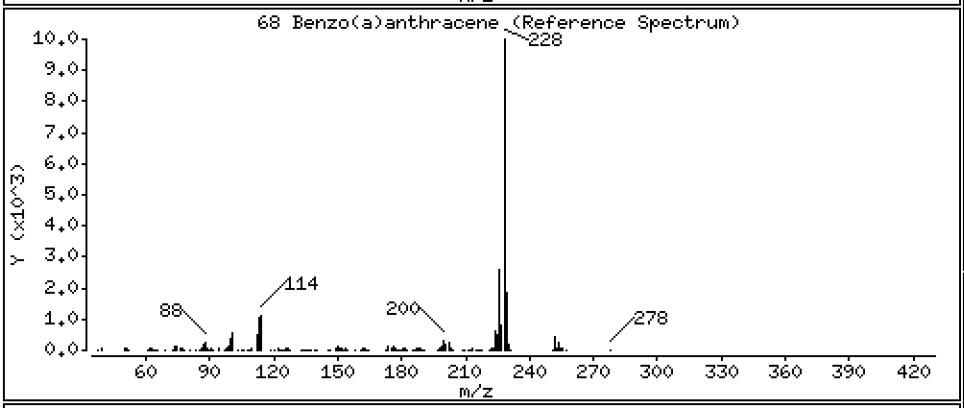
Column diameter: 0.25

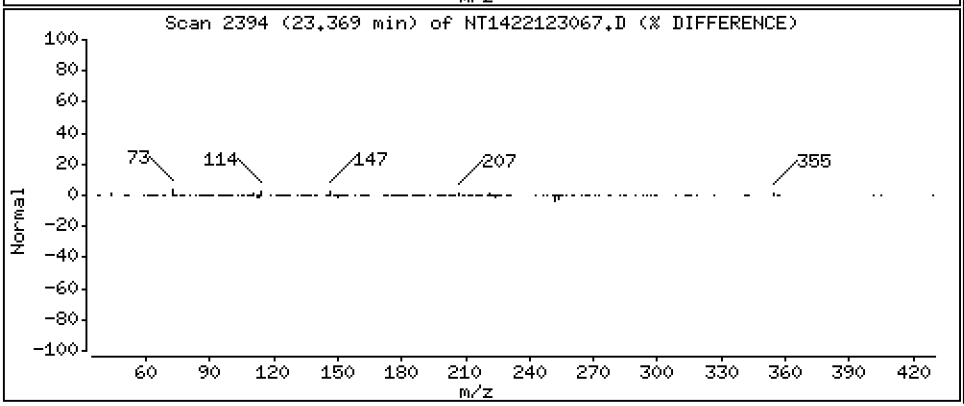
68 Benzo(a)anthracene

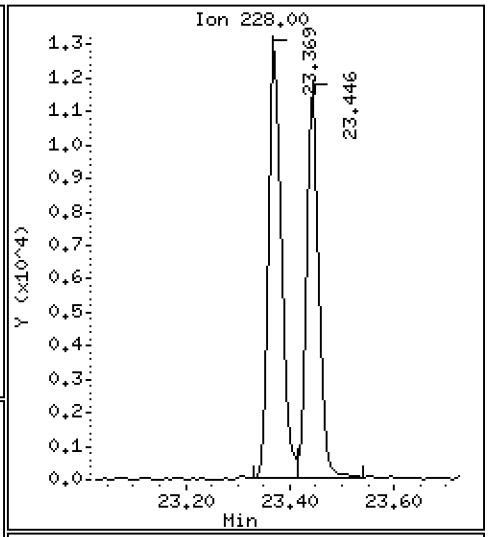
Concentration: 0.2639 ug/mL

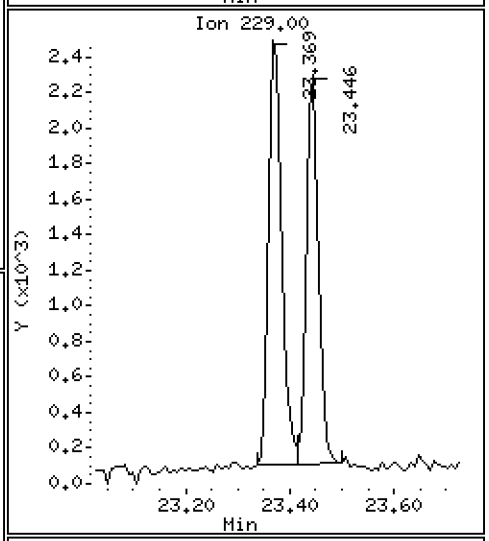


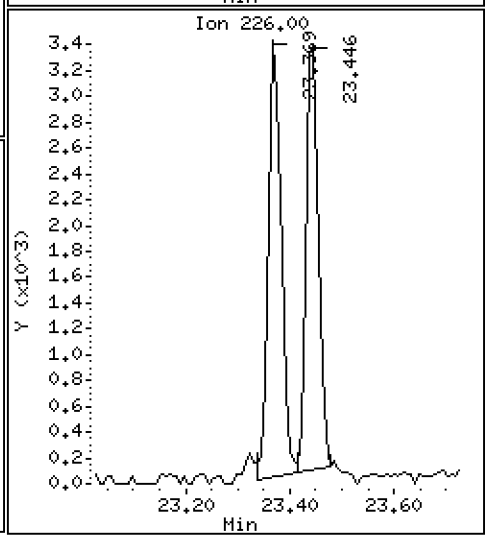












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

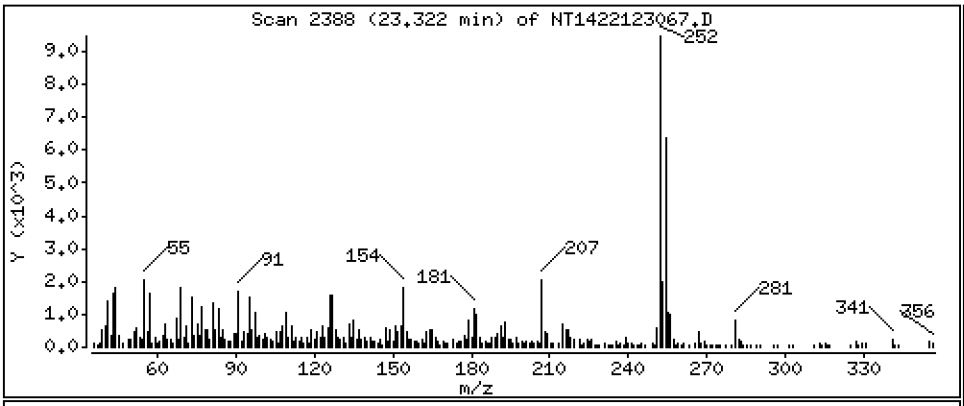
Operator: VTS

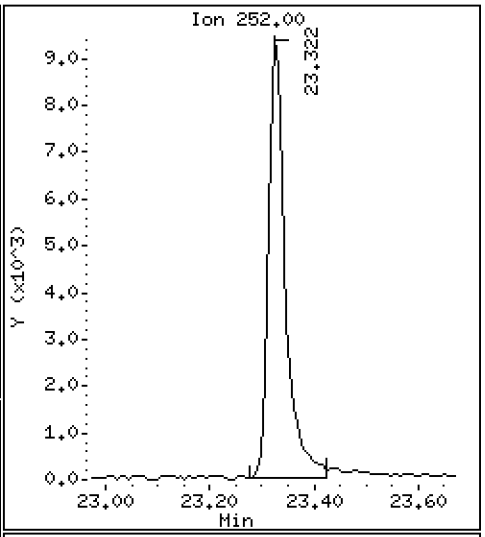
Column phase: ZB-5msi

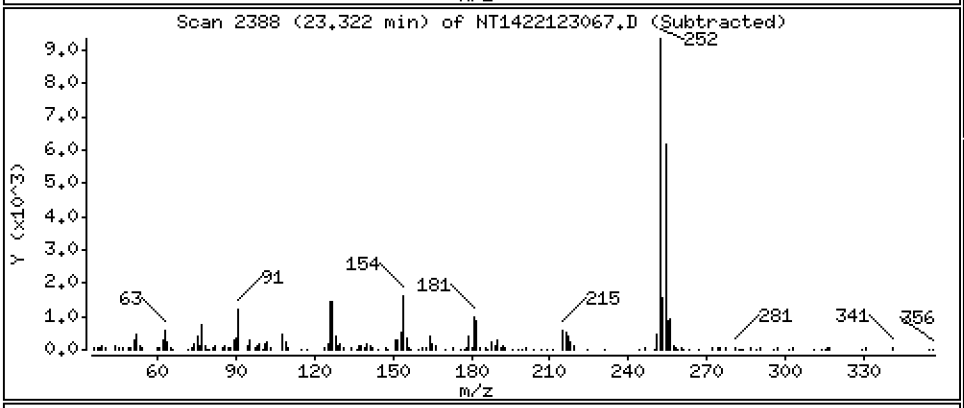
Column diameter: 0.25

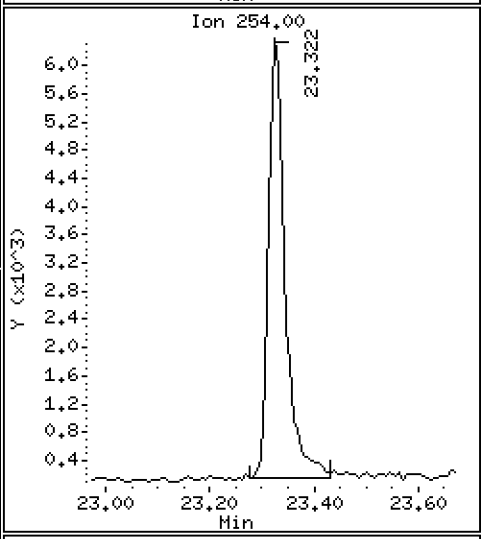
70 3,3'-Dichlorobenzidine

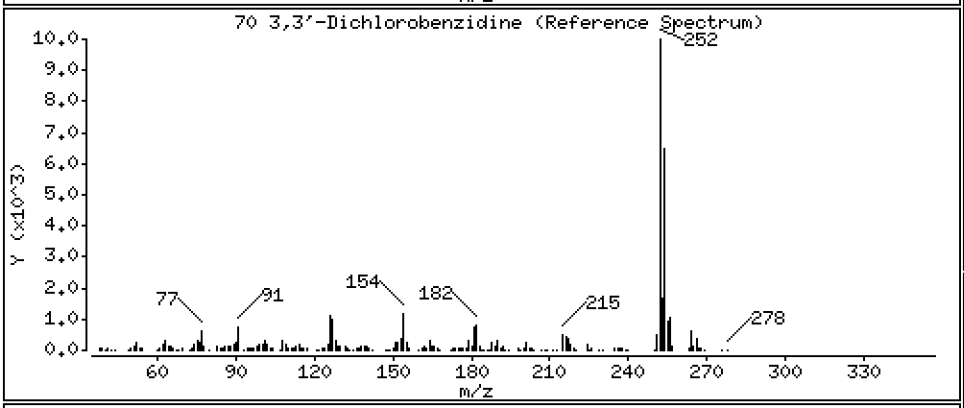
Concentration: 0.8193 ug/mL

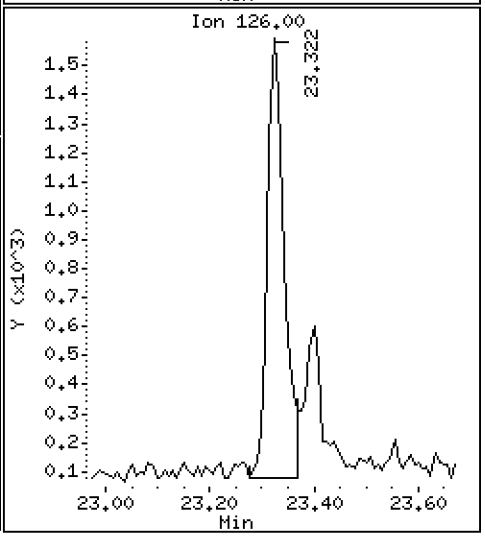


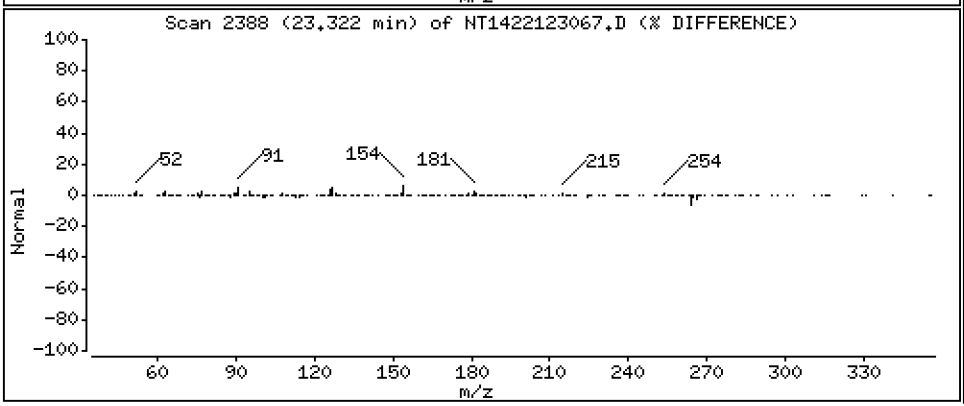












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

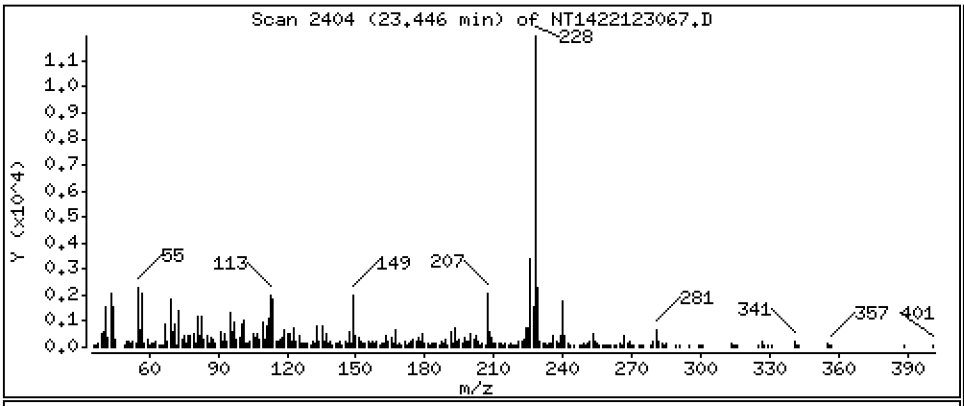
Operator: VTS

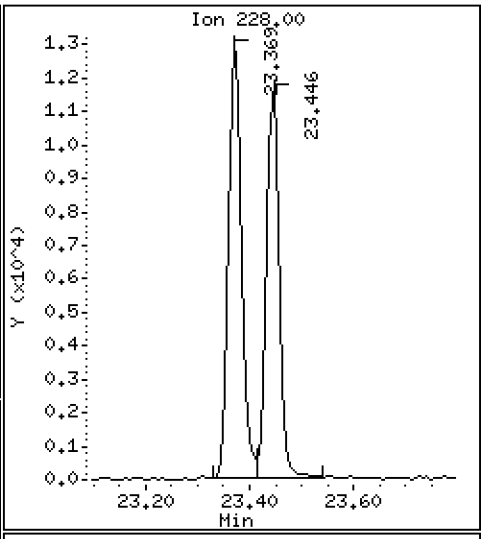
Column phase: ZB-5msi

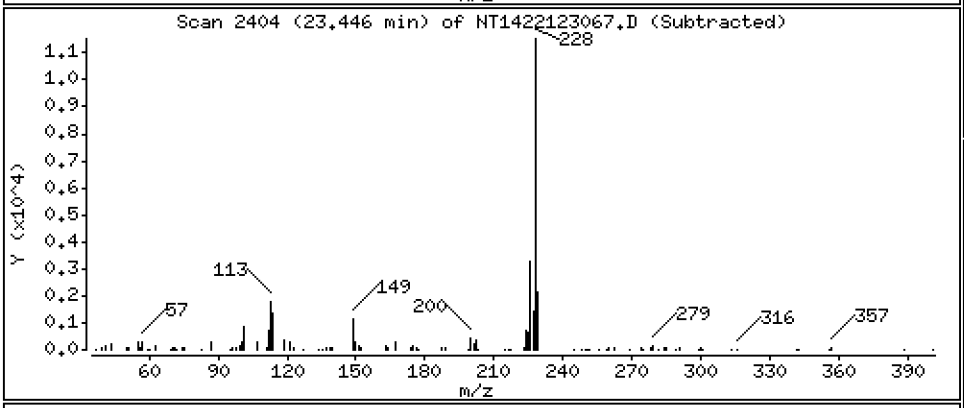
Column diameter: 0.25

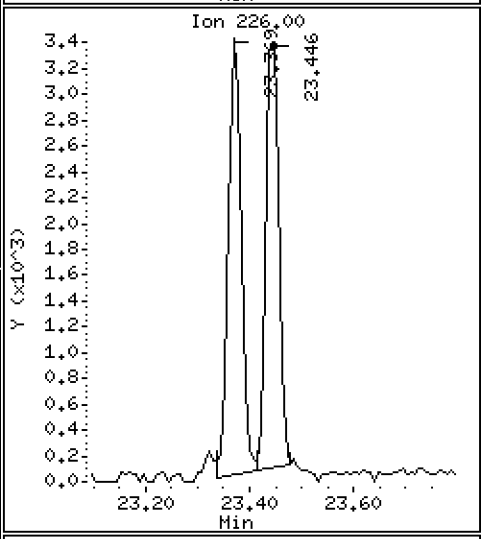
71 Chrysene

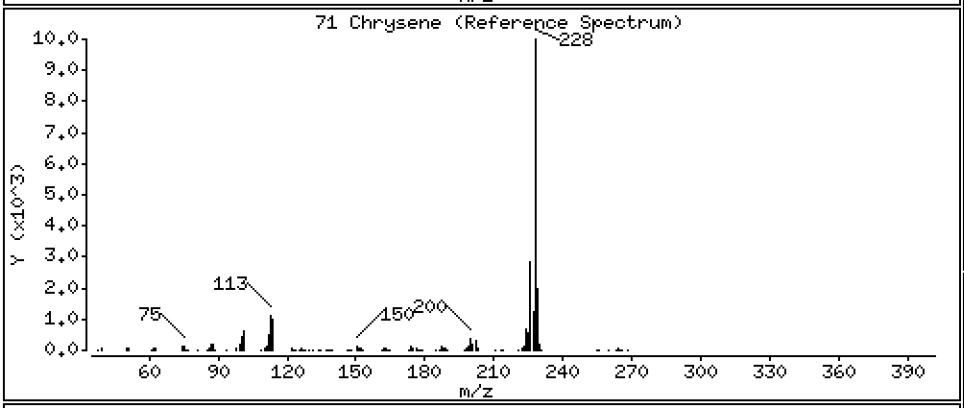
Concentration: 0.2429 ug/mL

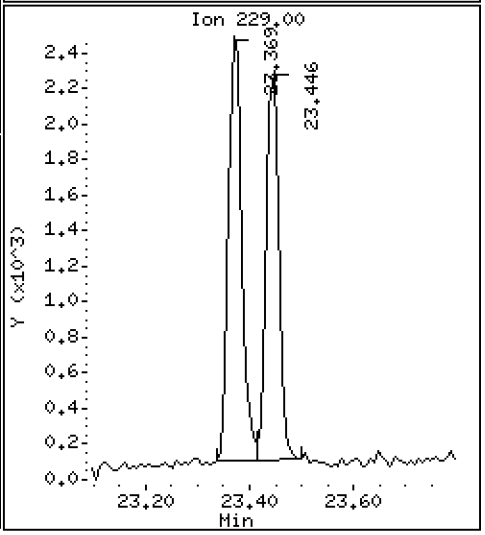


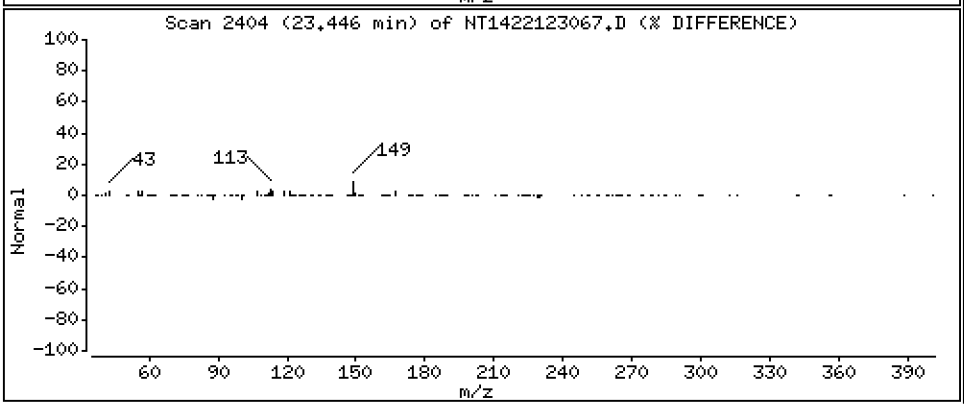












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

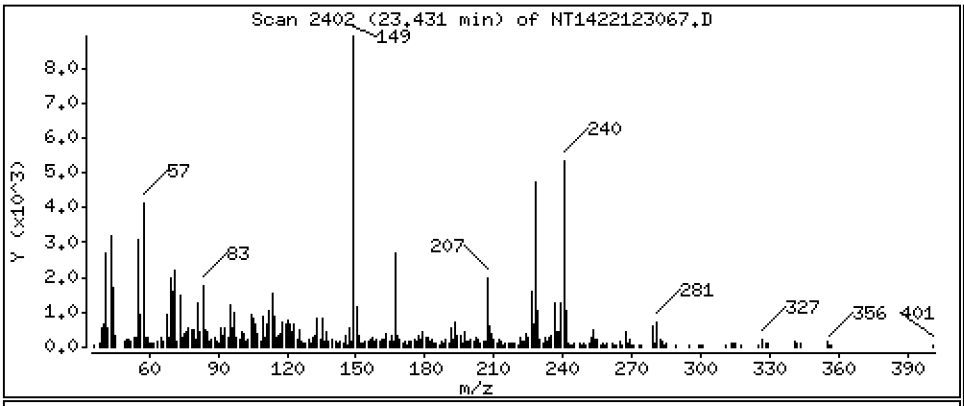
Operator: VTS

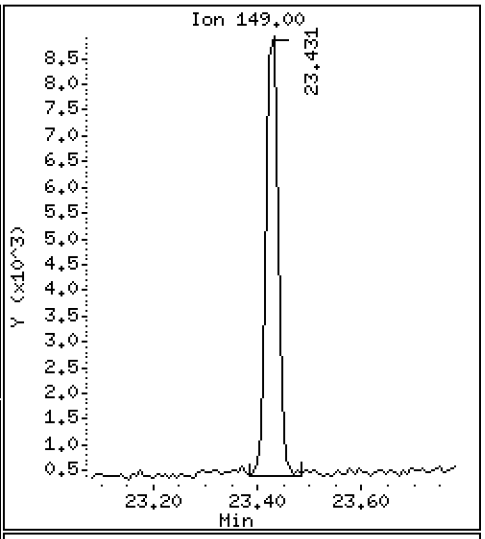
Column phase: ZB-5msi

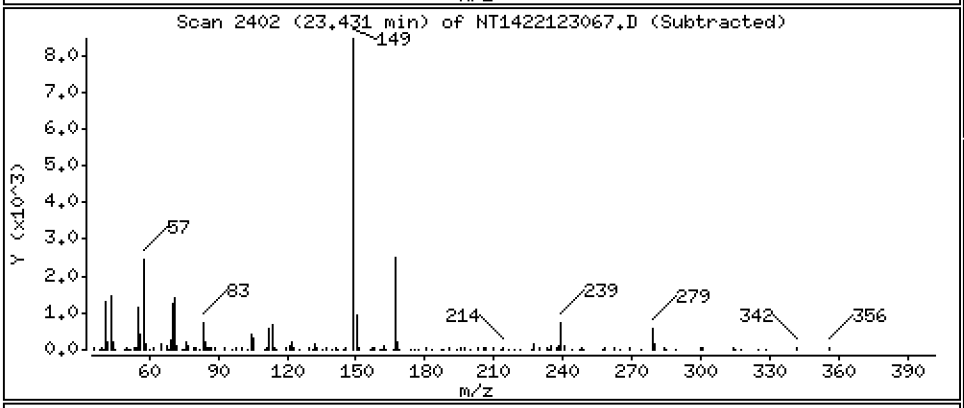
Column diameter: 0.25

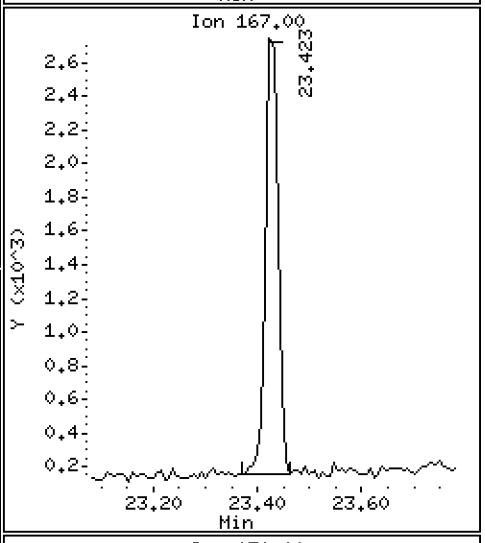
72 bis(2-Ethylhexyl)phthalate

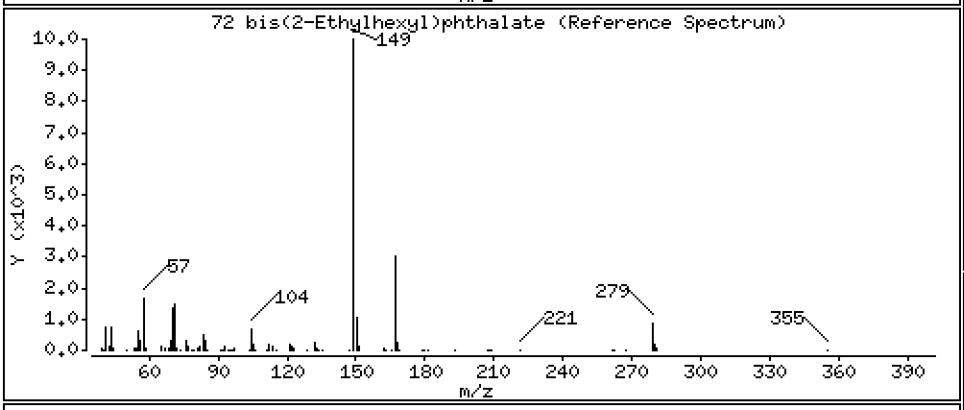
Concentration: 0.2611 ug/mL

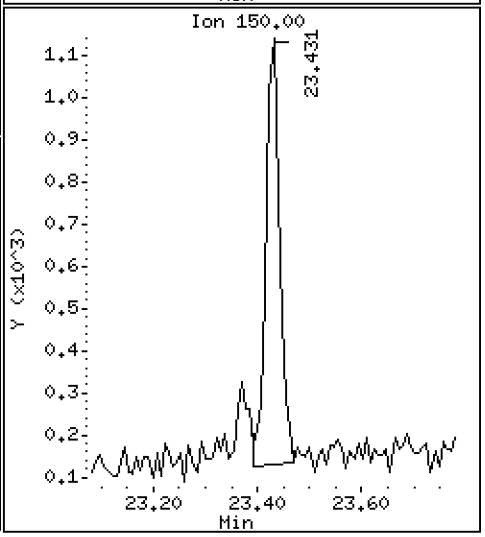


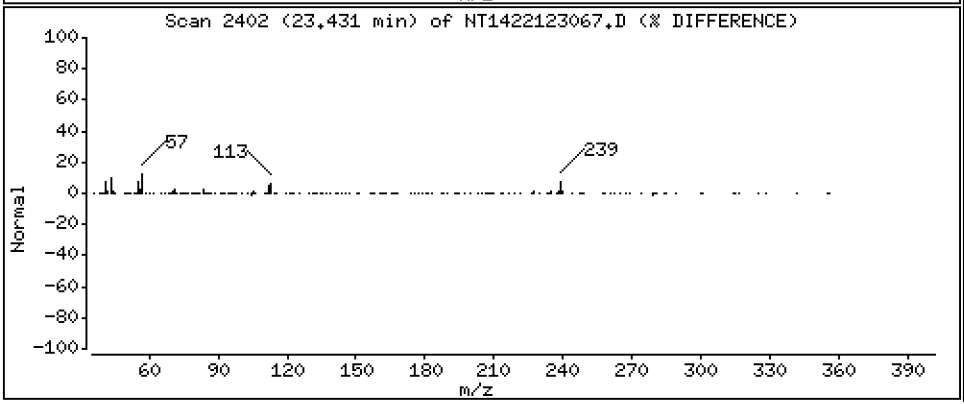












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

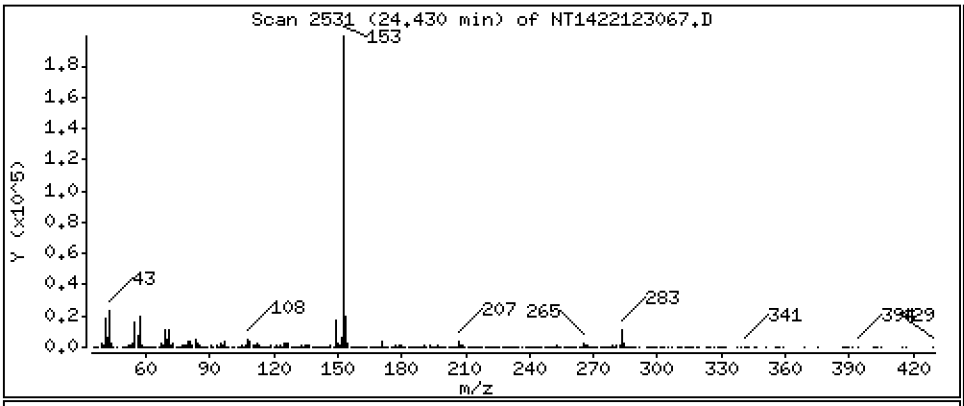
Operator: VTS

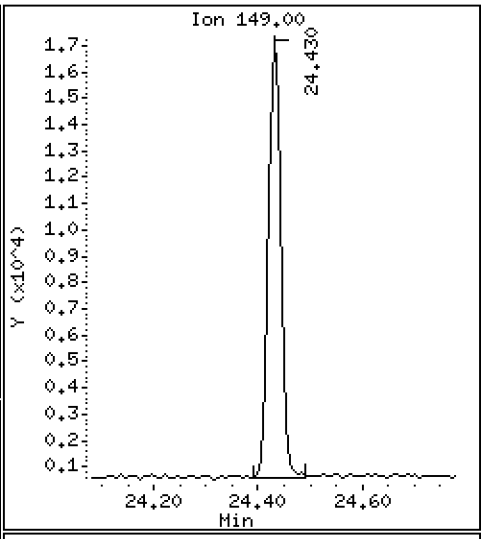
Column phase: ZB-5msi

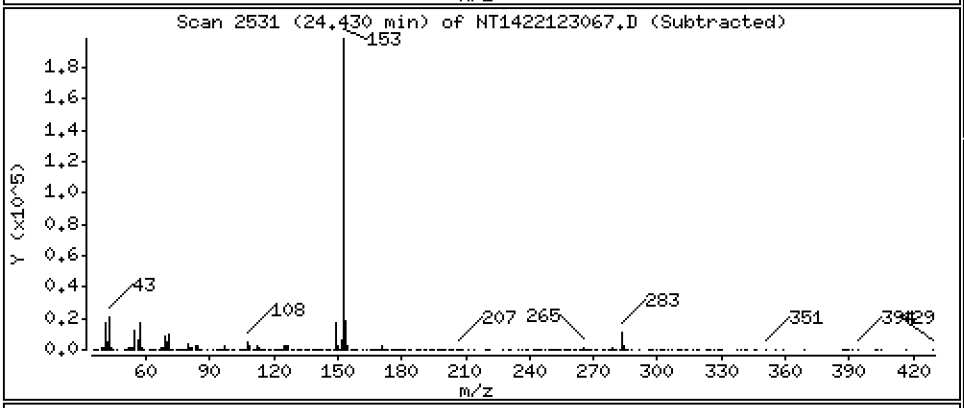
Column diameter: 0.25

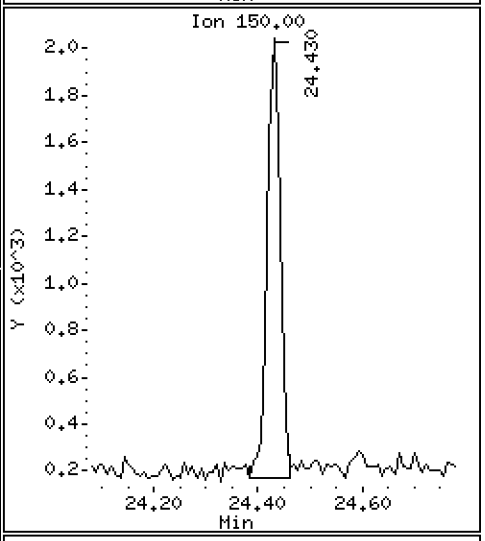
73 Di-n-octylphthalate

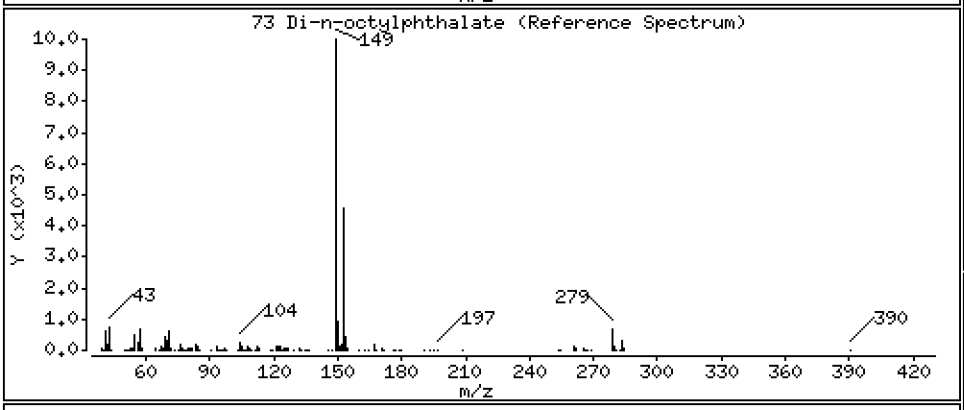
Concentration: 0.2459 ug/mL

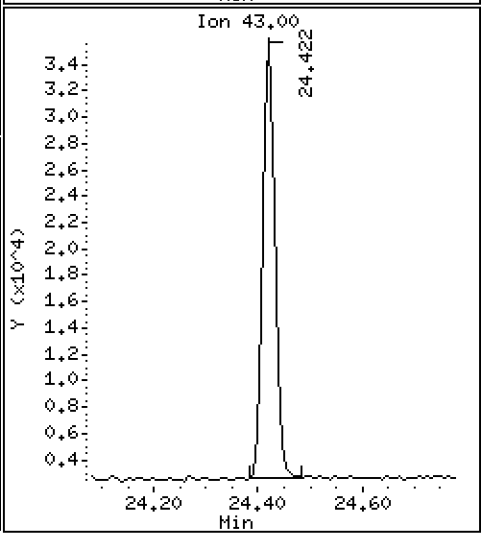


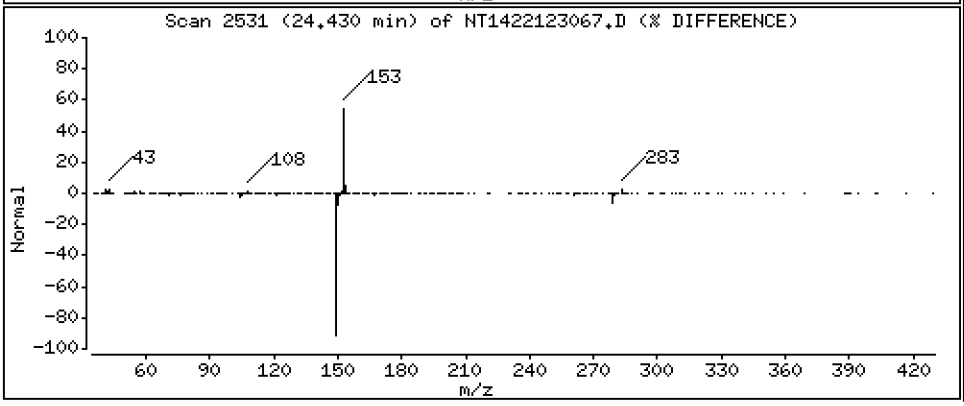












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

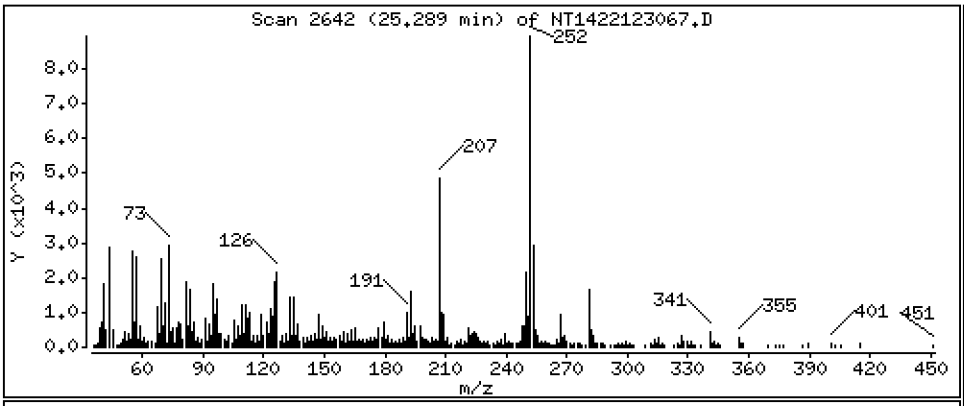
Operator: VTS

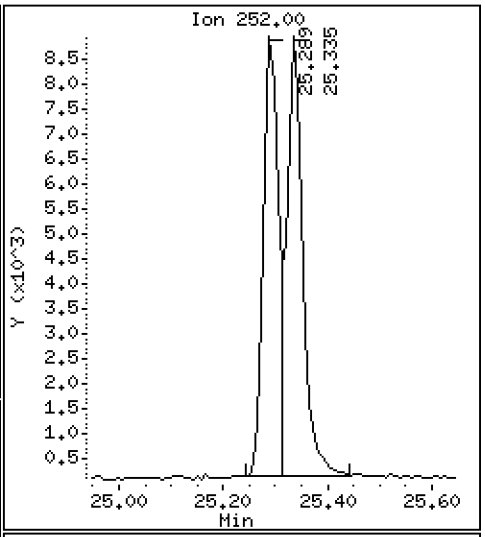
Column phase: ZB-5msi

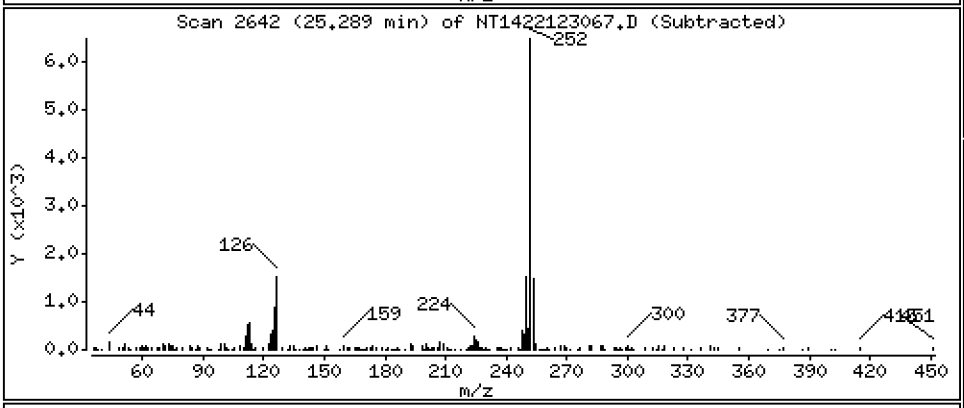
Column diameter: 0.25

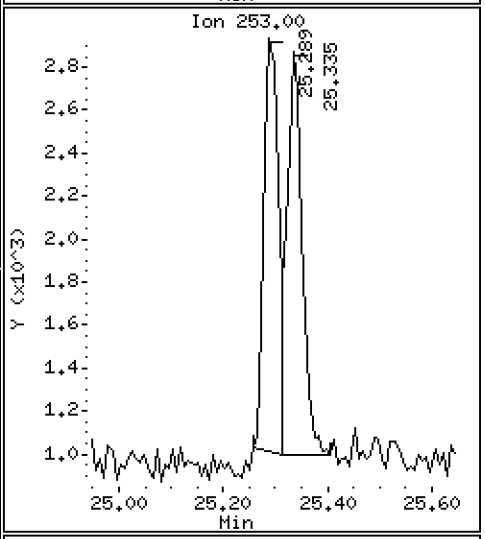
74 Benzo(b)fluoranthene

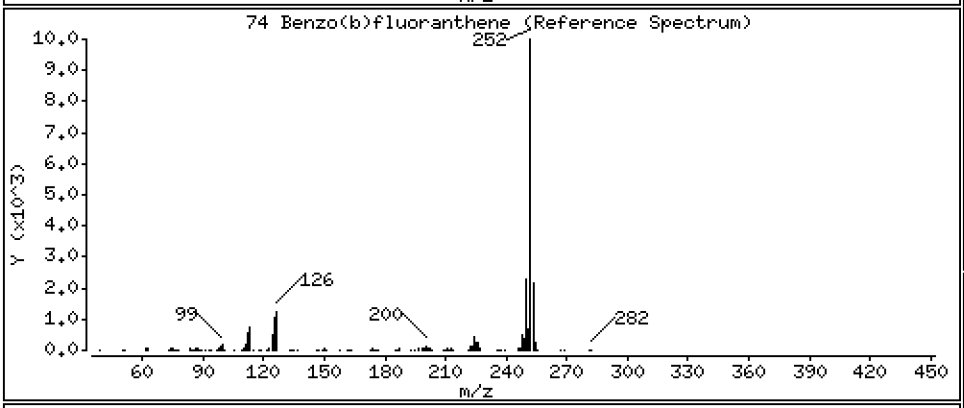
Concentration: 0.2414 ug/mL

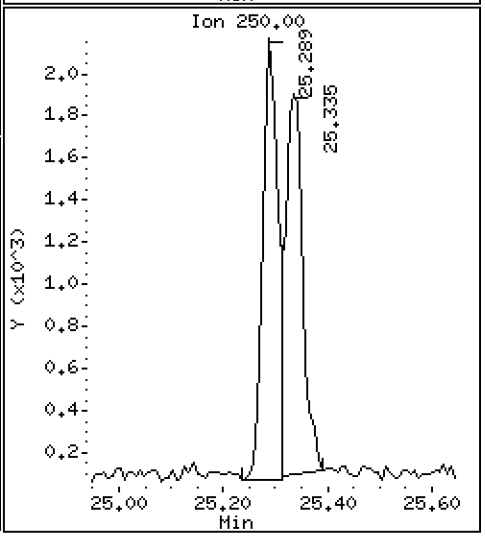


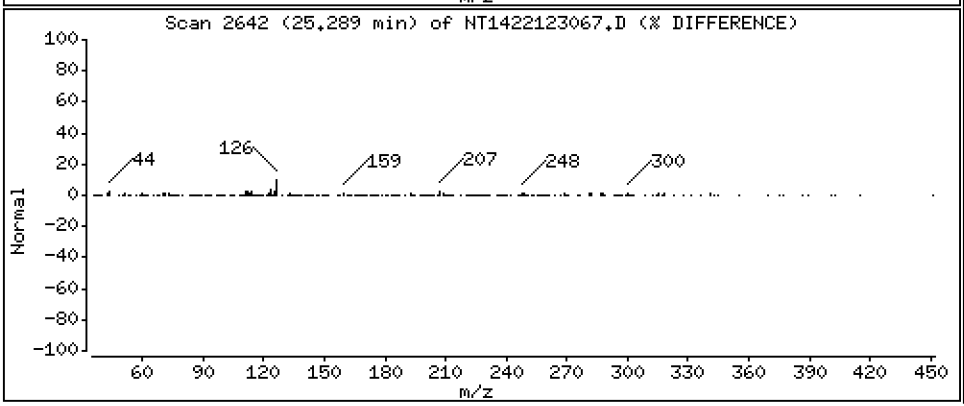












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

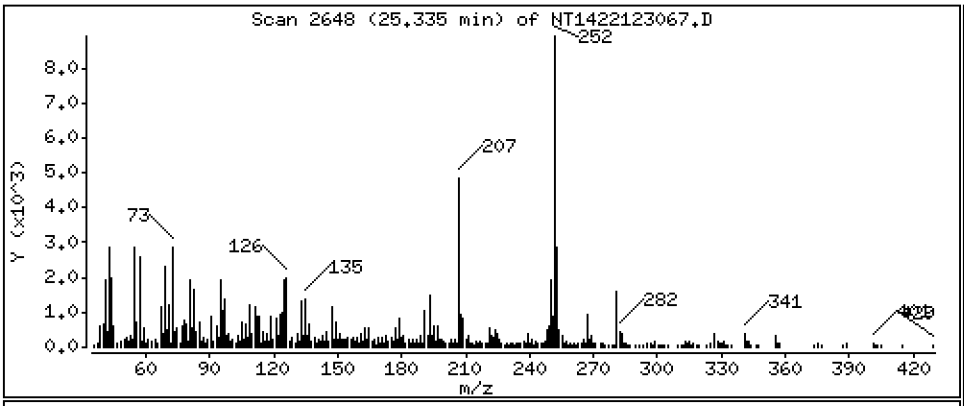
Operator: VTS

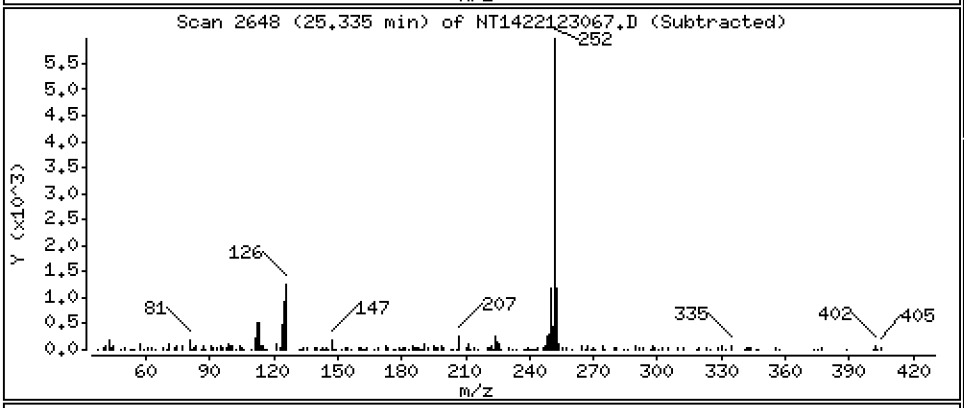
Column phase: ZB-5msi

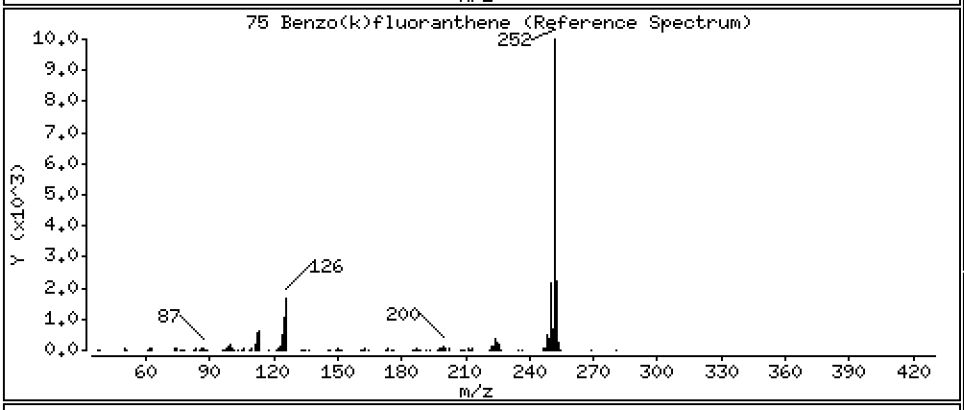
Column diameter: 0.25

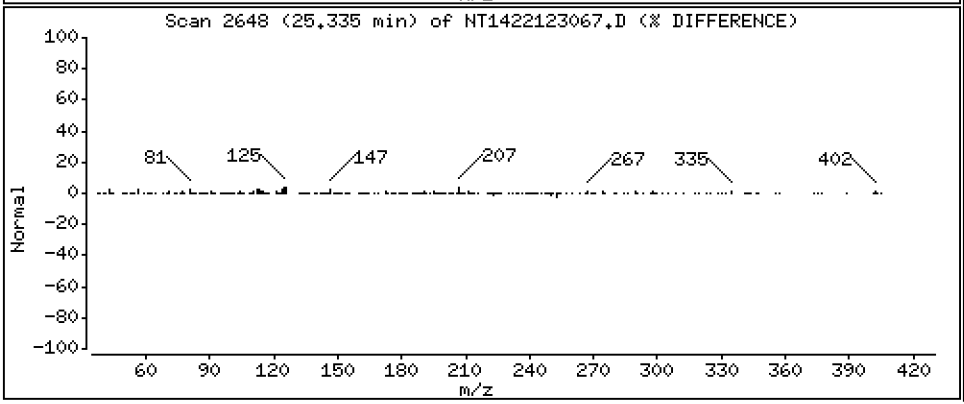
75 Benzo(k)fluoranthene

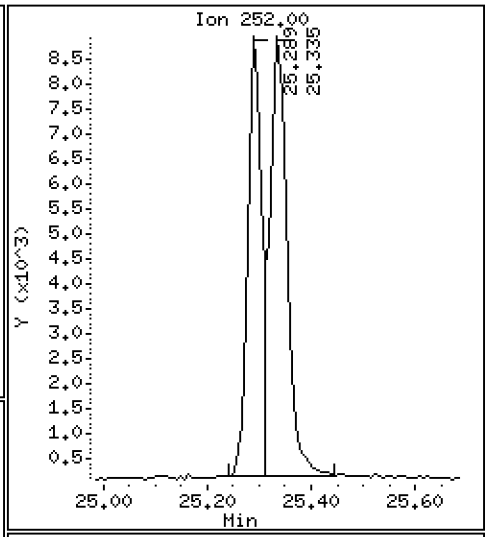
Concentration: 0.2810 ug/mL

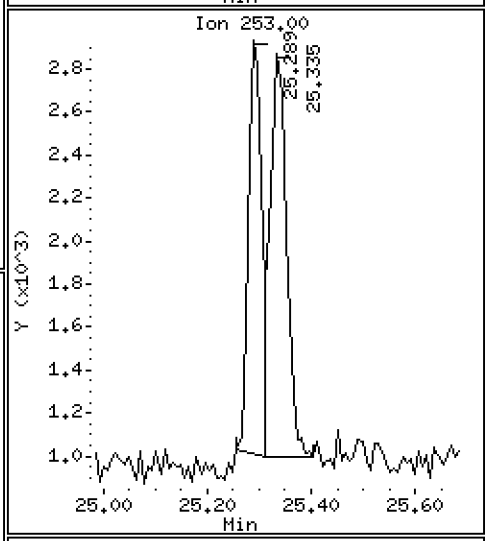


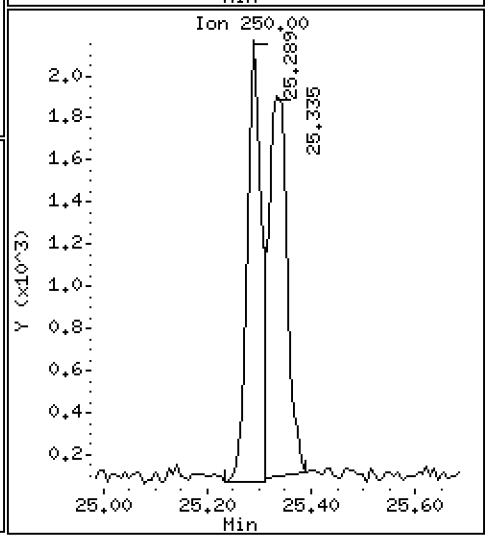












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

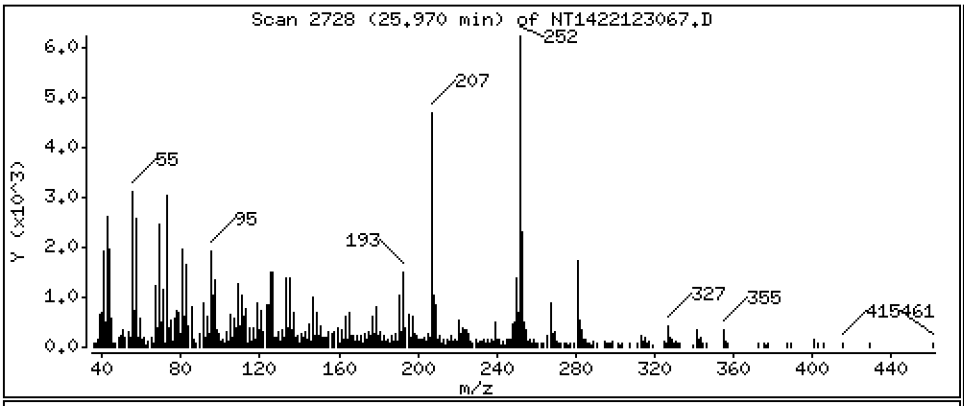
Operator: VTS

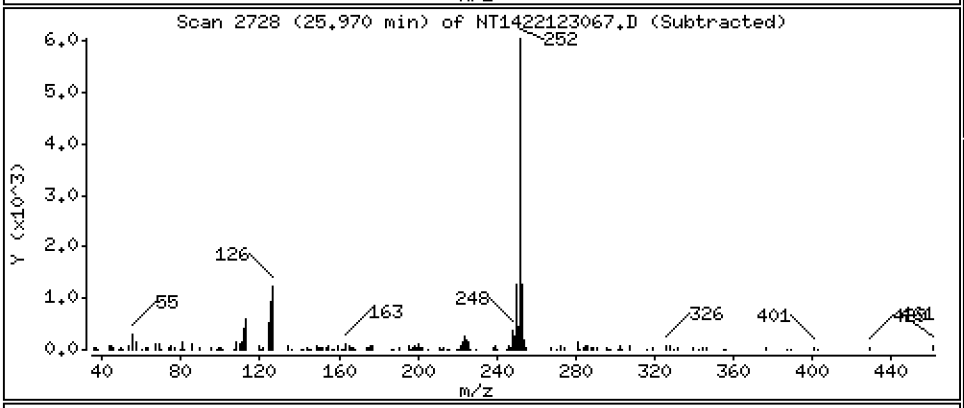
Column phase: ZB-5msi

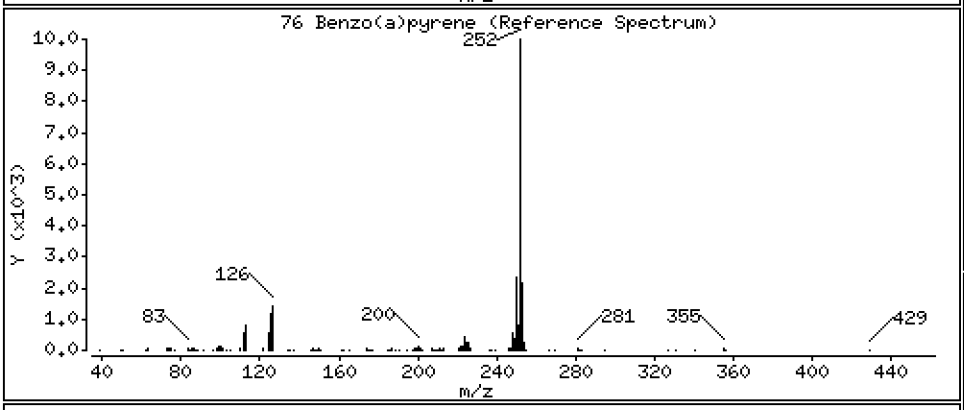
Column diameter: 0.25

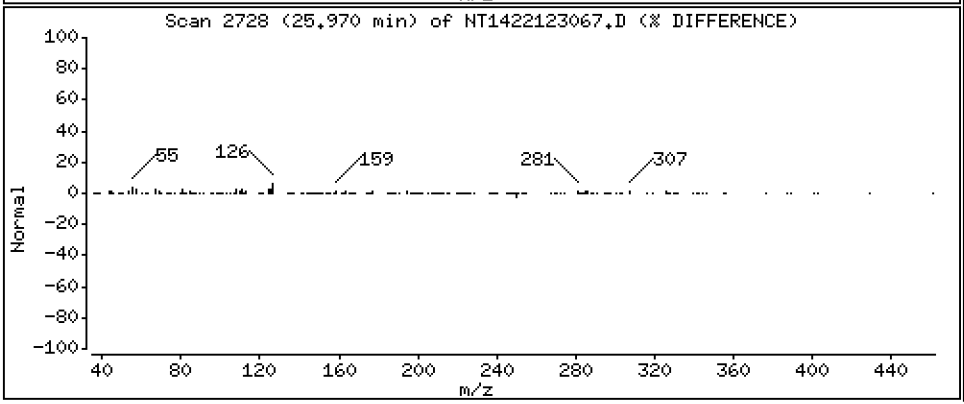
76 Benzo(a)pyrene

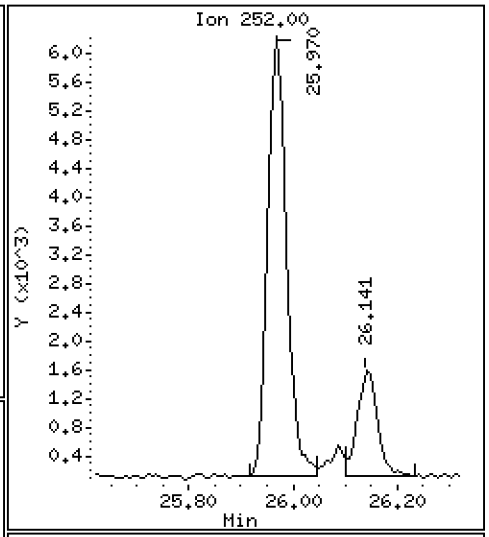
Concentration: 0.2524 ug/mL

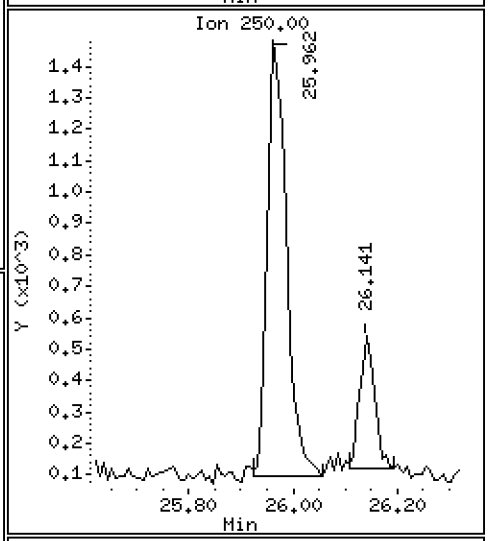


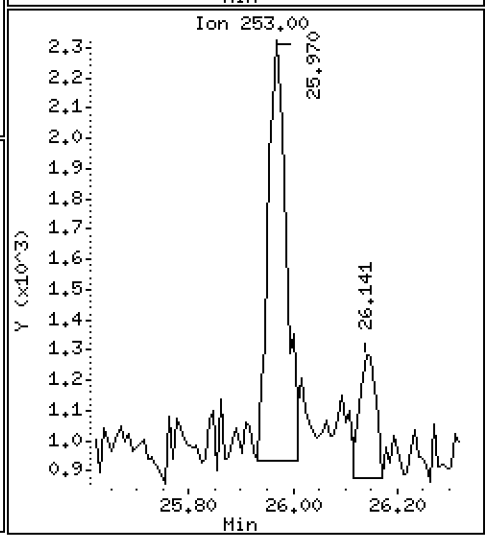












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

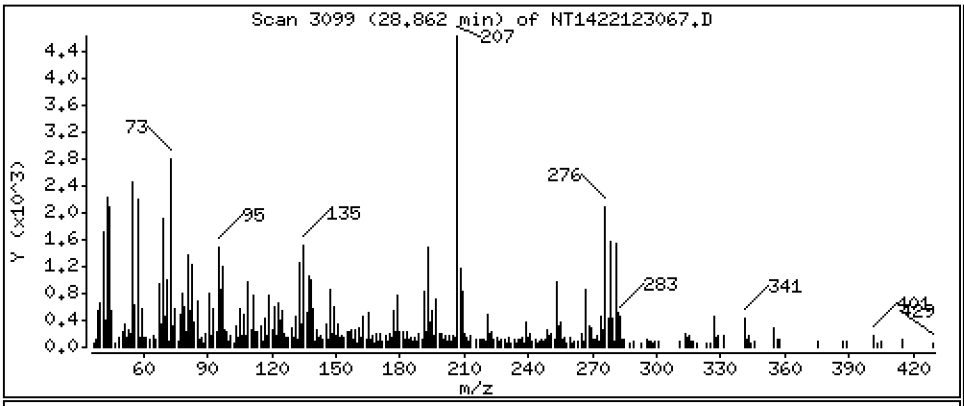
Operator: VTS

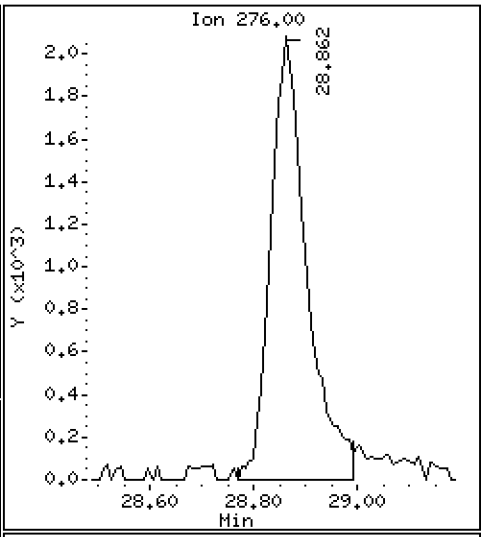
Column phase: ZB-5msi

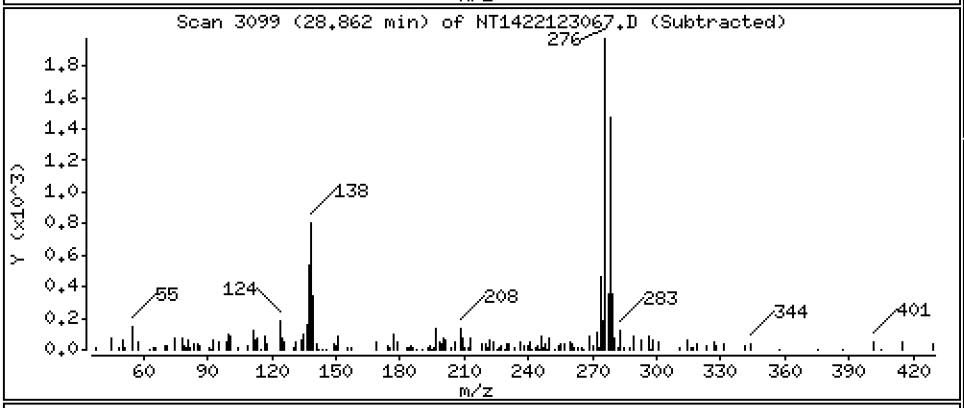
Column diameter: 0.25

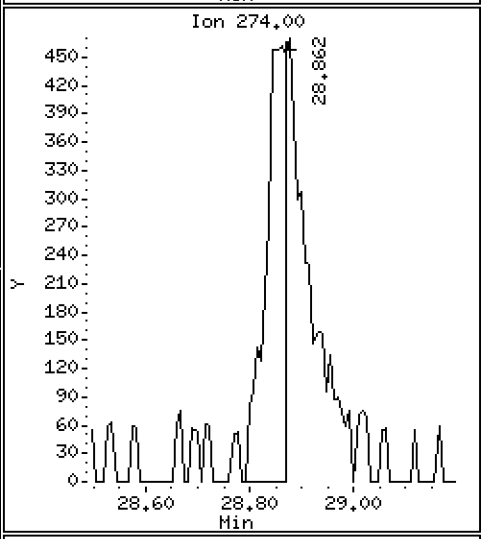
78 Indeno(1,2,3-cd)pyrene

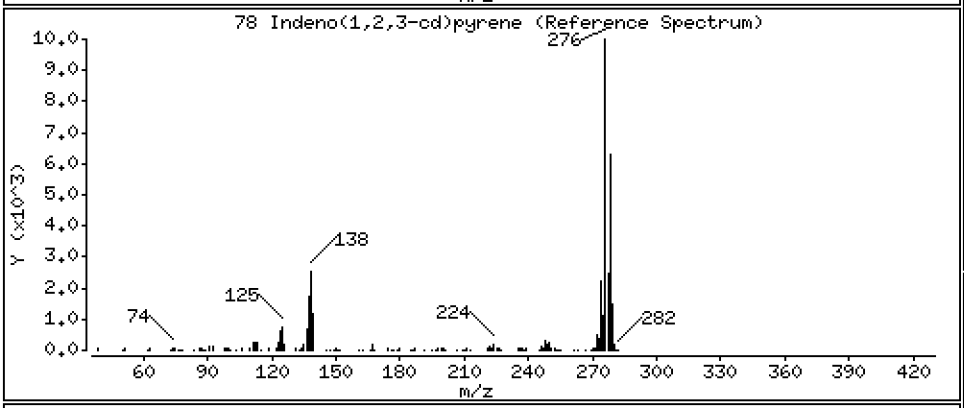
Concentration: 0.1494 ug/mL

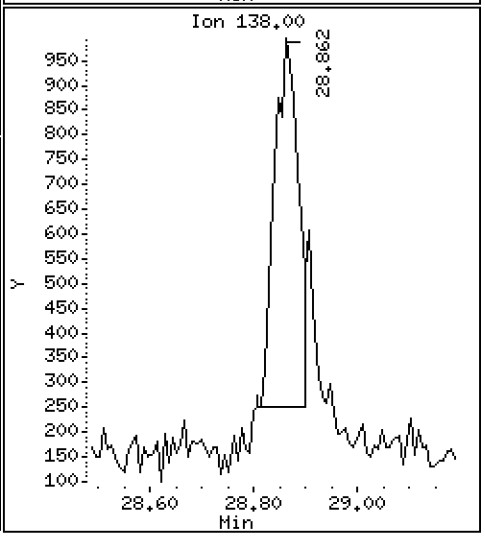


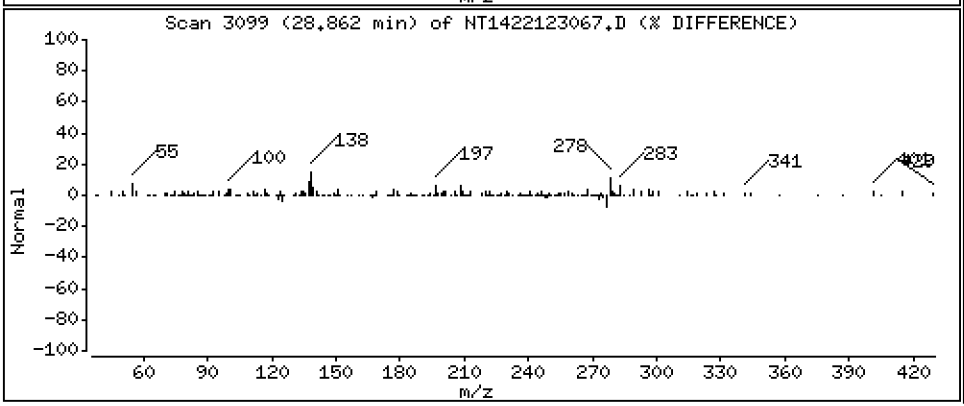












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

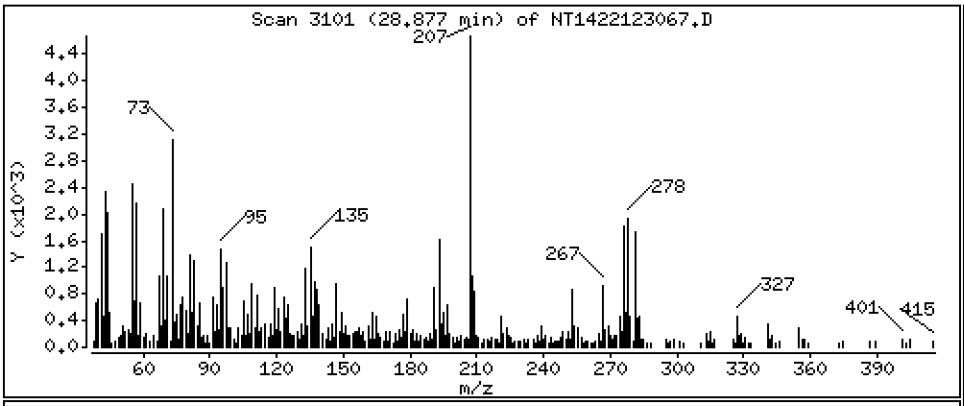
Operator: VTS

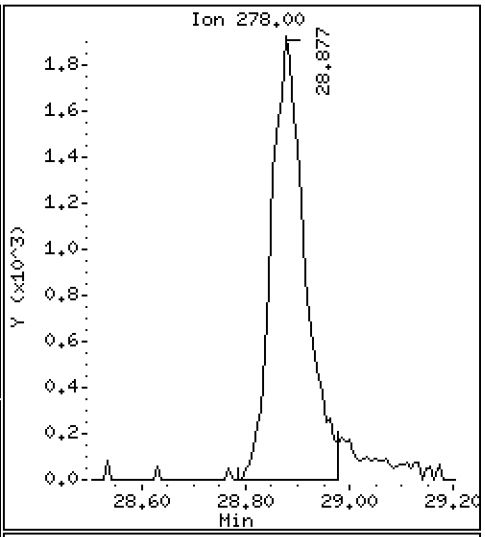
Column phase: ZB-5msi

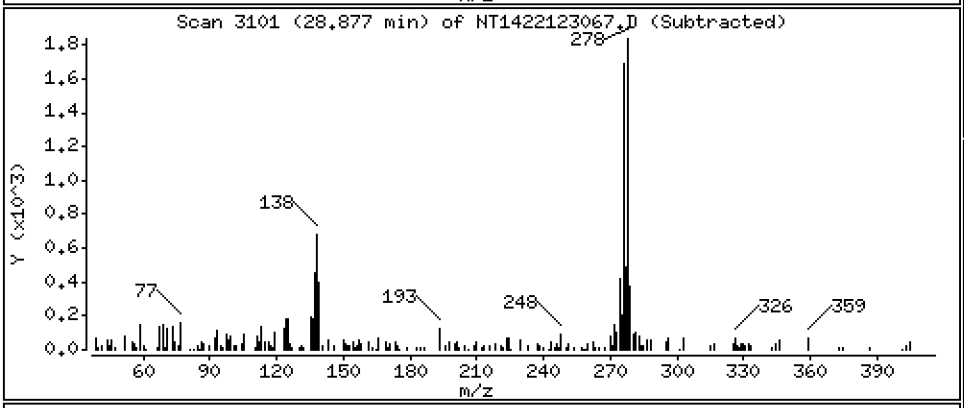
Column diameter: 0.25

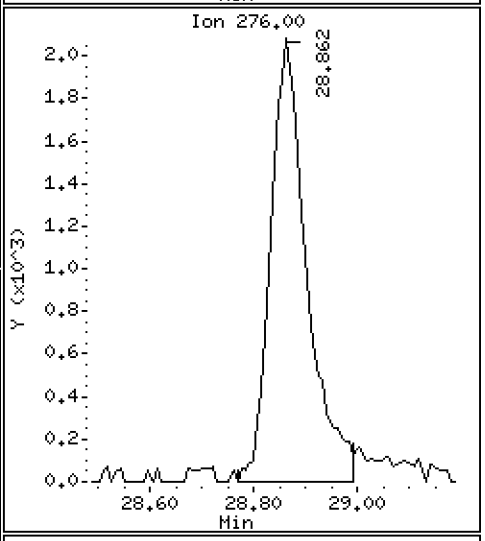
79 Dibenzo(a,h)anthracene

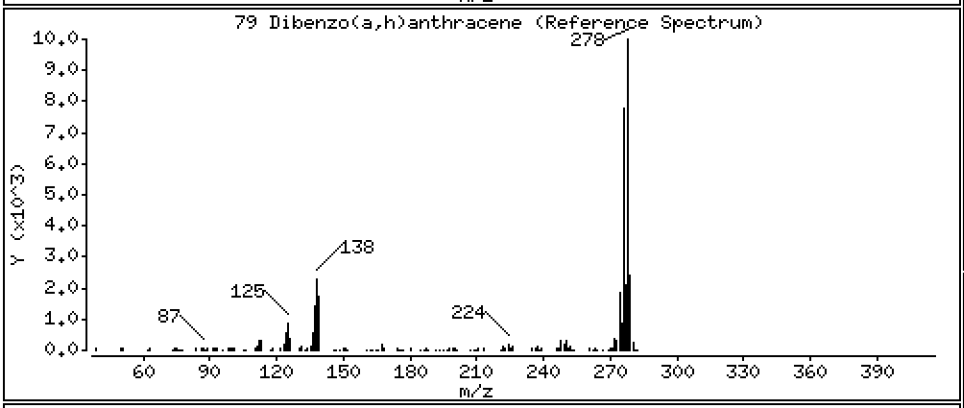
Concentration: 0.1509 ug/mL

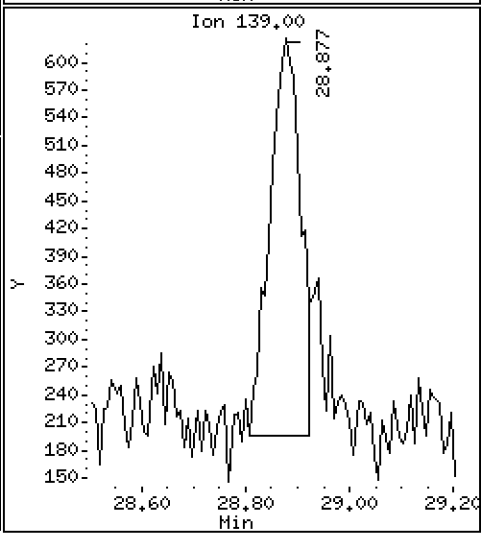


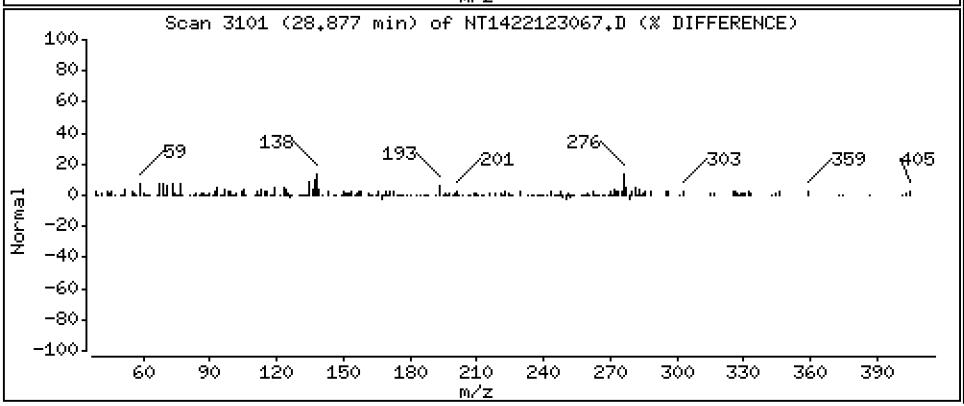












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

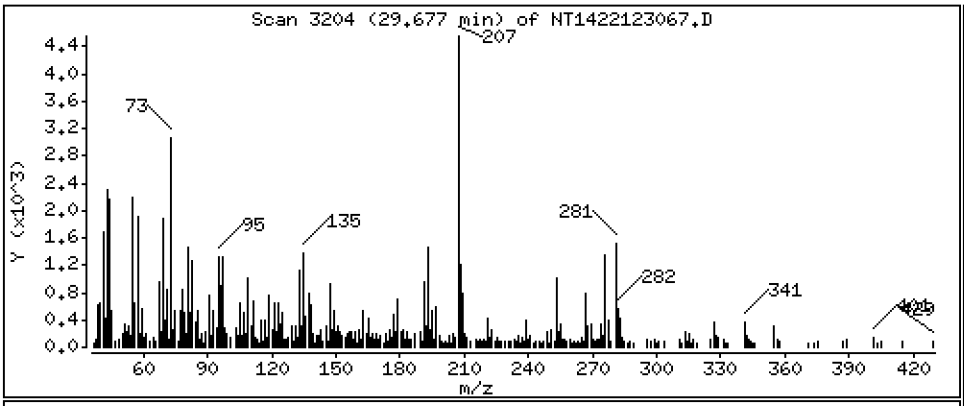
Operator: VTS

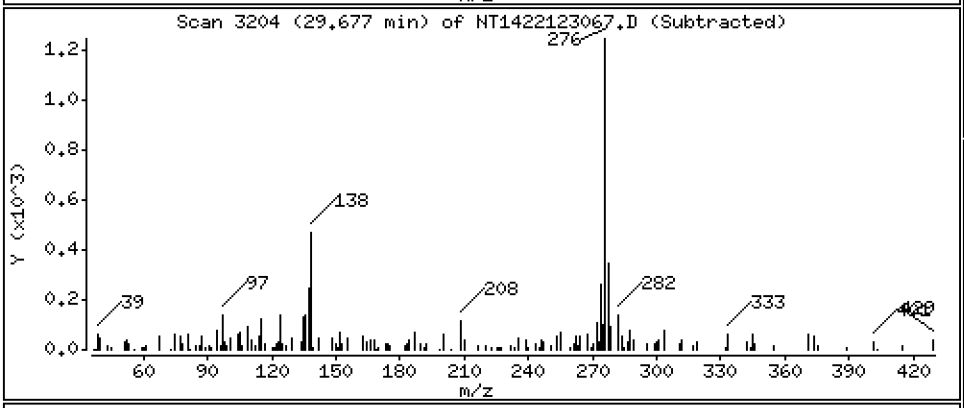
Column phase: ZB-5msi

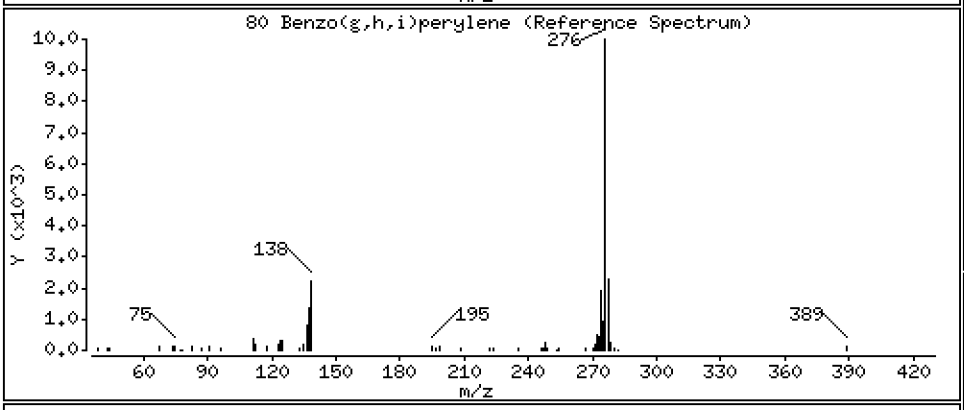
Column diameter: 0.25

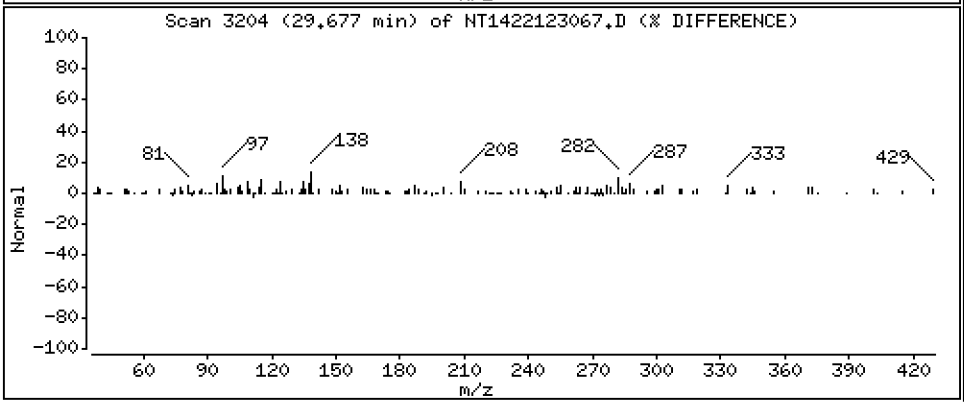
80 Benzo(g,h,i)perylene

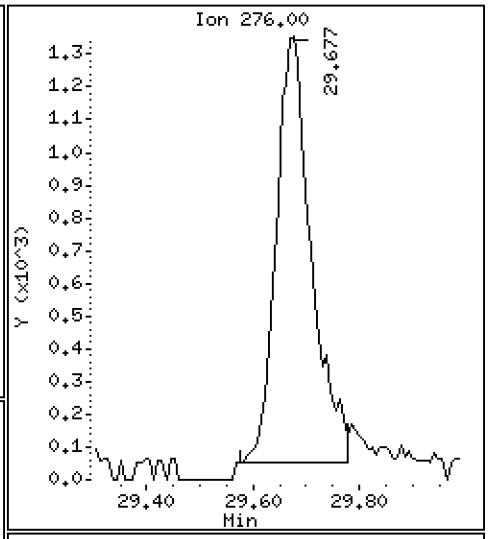
Concentration: 0.1058 ug/mL

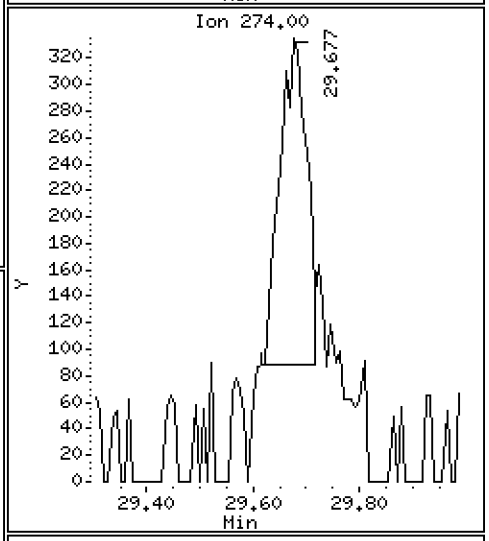


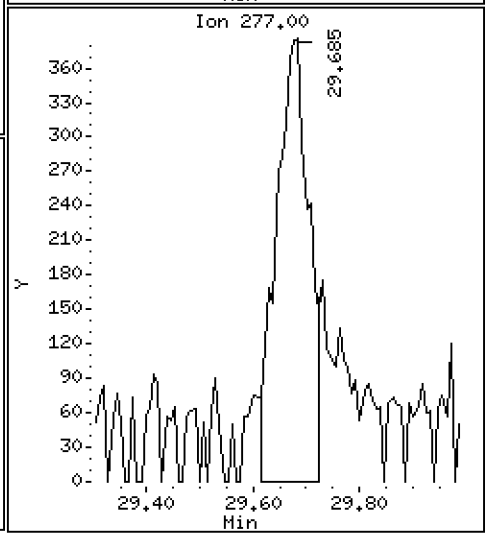












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

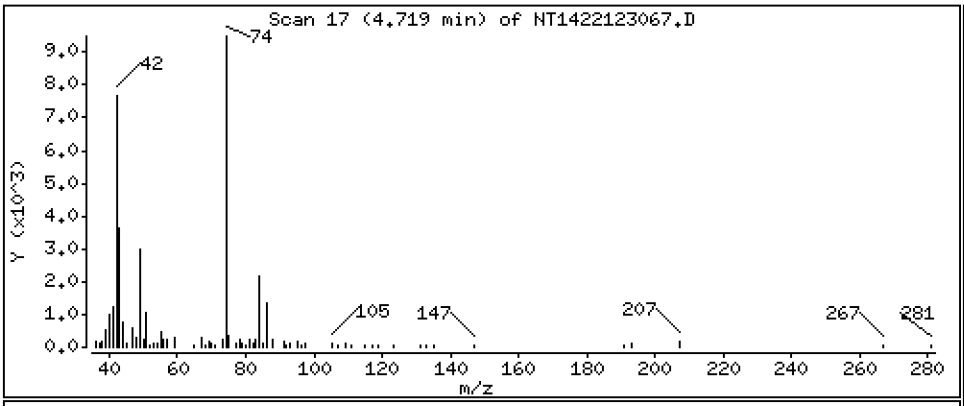
Operator: VTS

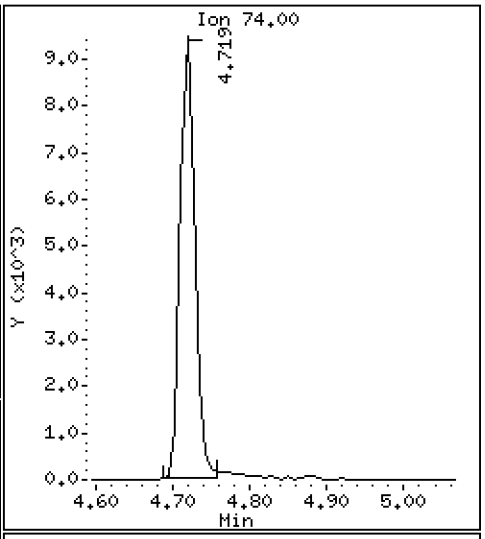
Column phase: ZB-5msi

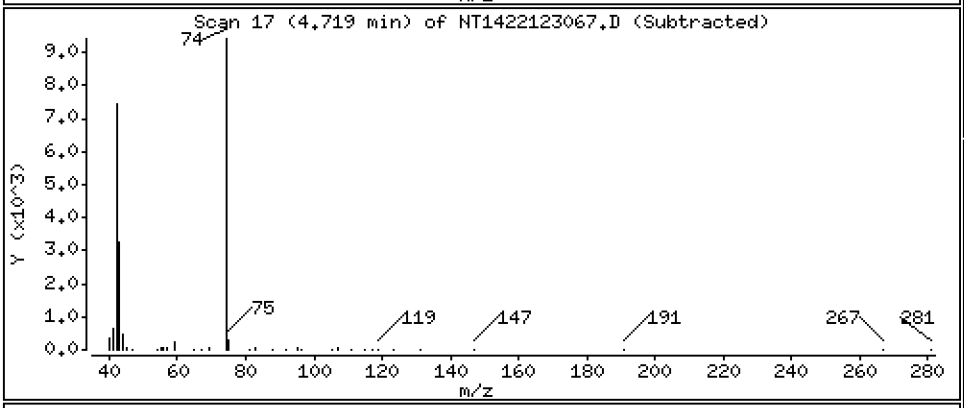
Column diameter: 0.25

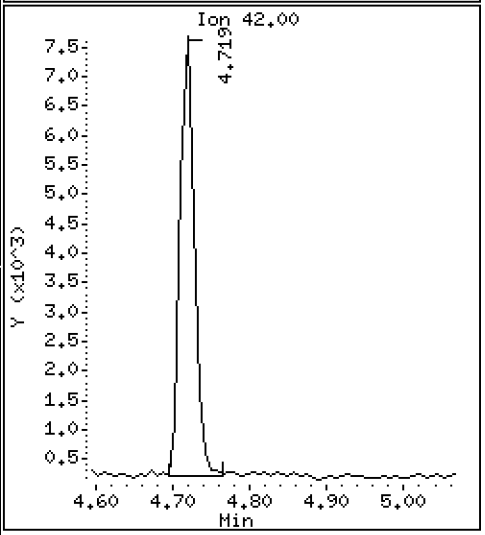
90 N-Nitrosodimethylamine

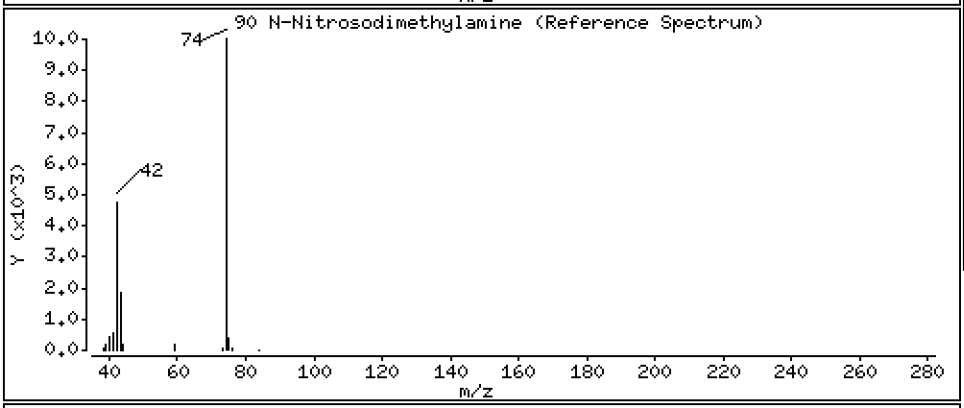
Concentration: 0.4928 ug/mL

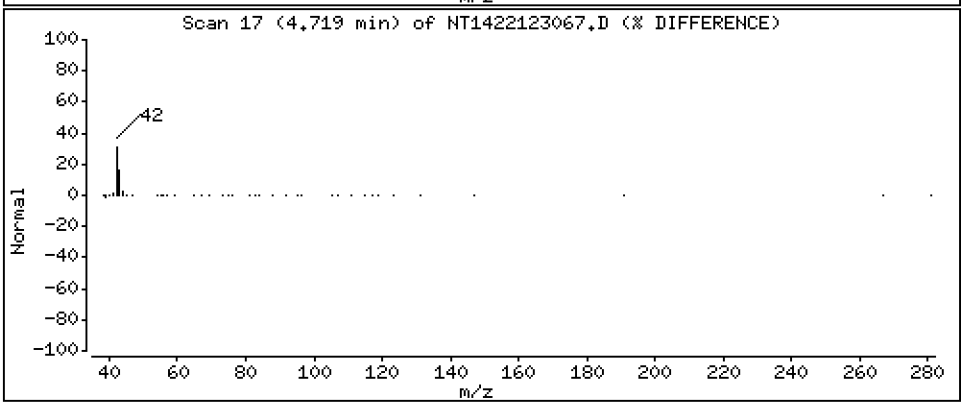












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

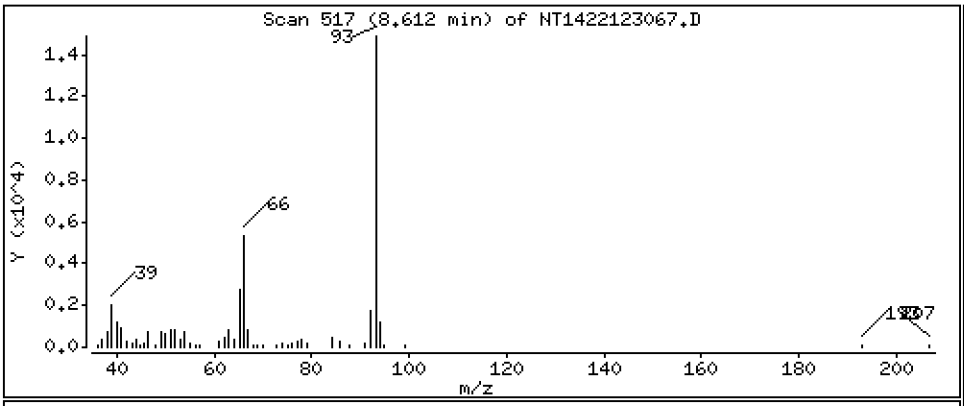
Operator: VTS

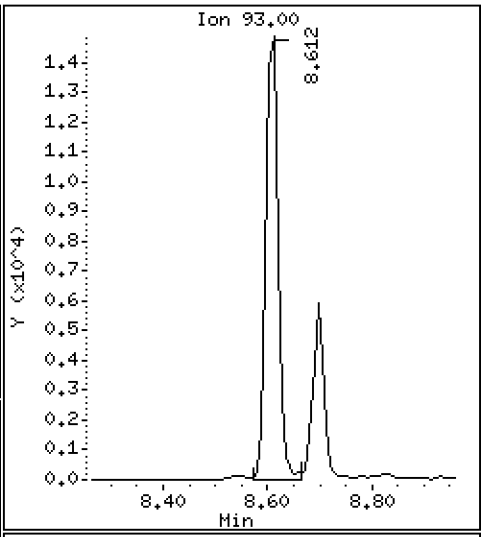
Column phase: ZB-5msi

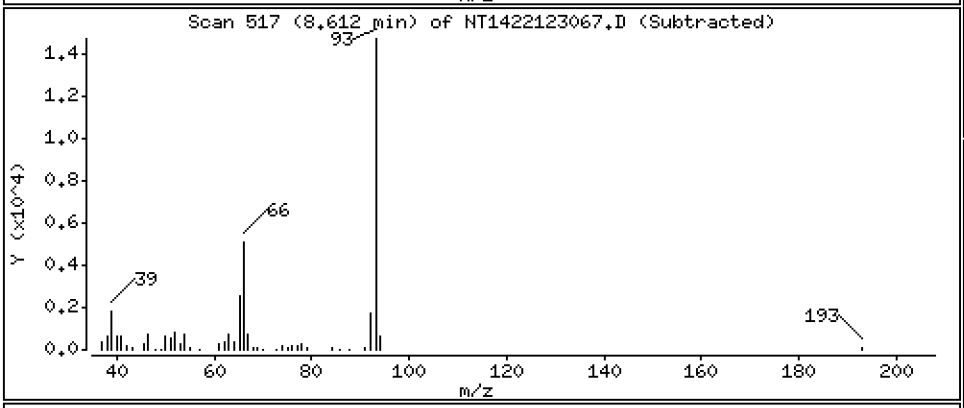
Column diameter: 0.25

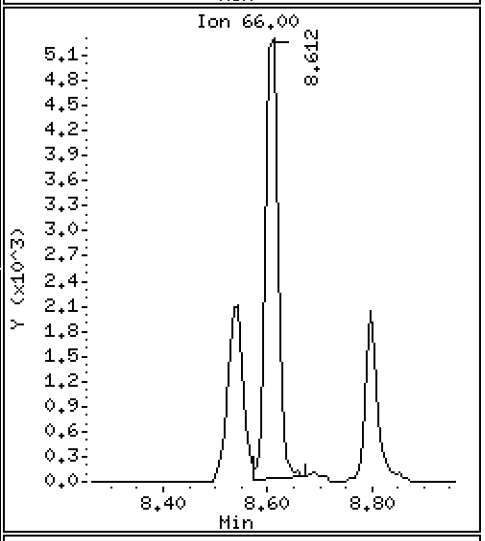
91 Aniline

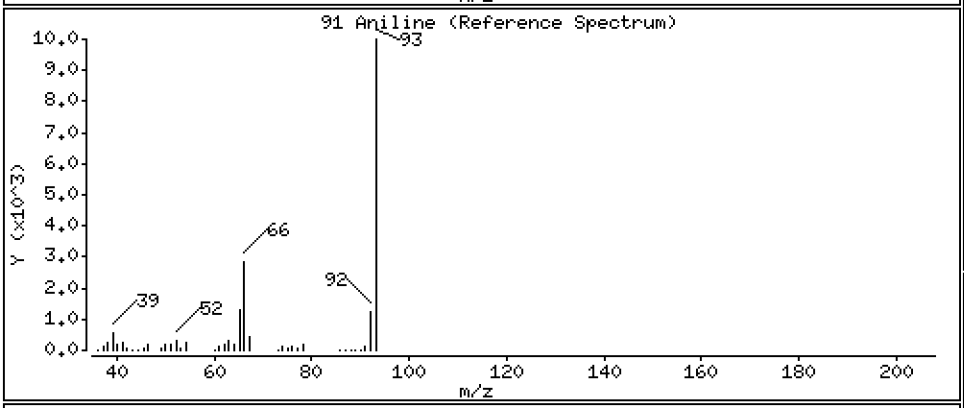
Concentration: 0.4840 ug/mL

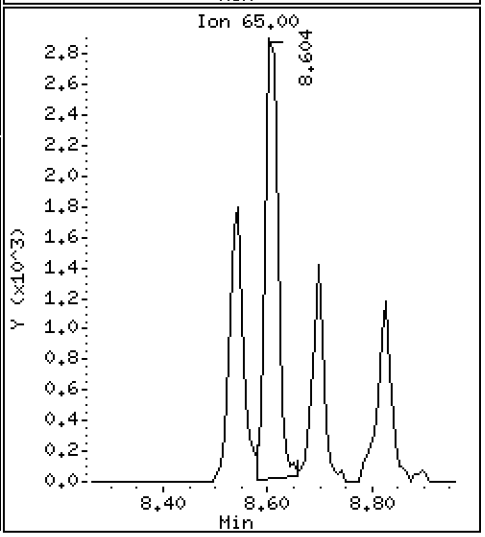


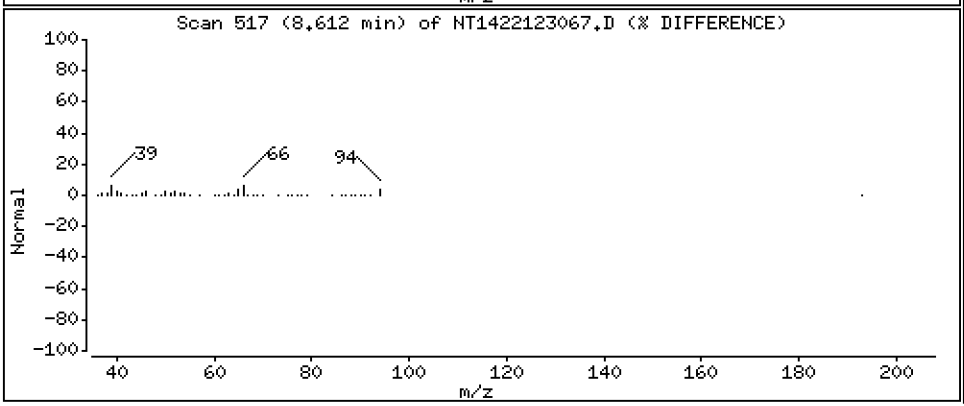












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

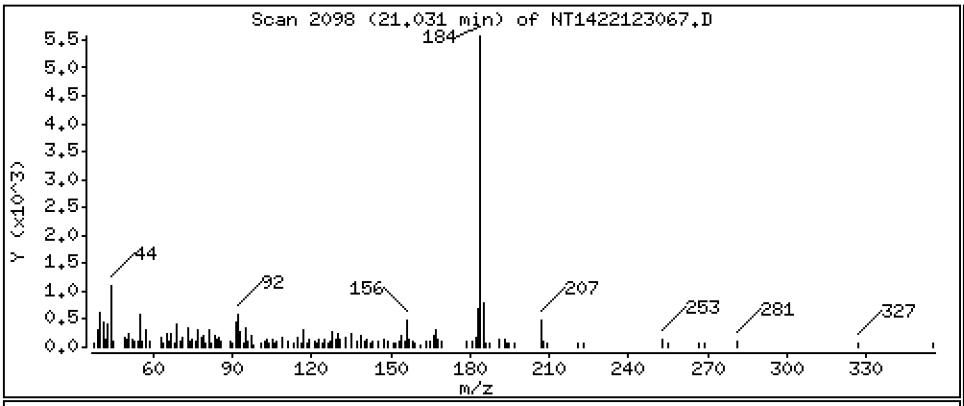
Operator: VTS

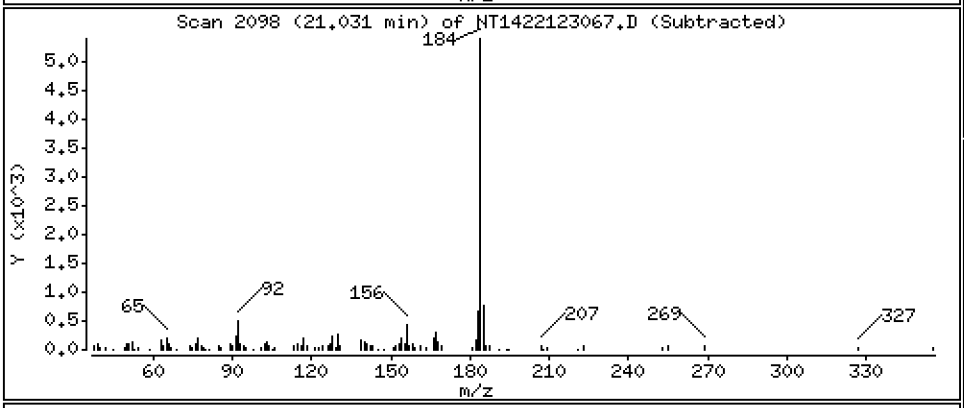
Column phase: ZB-5msi

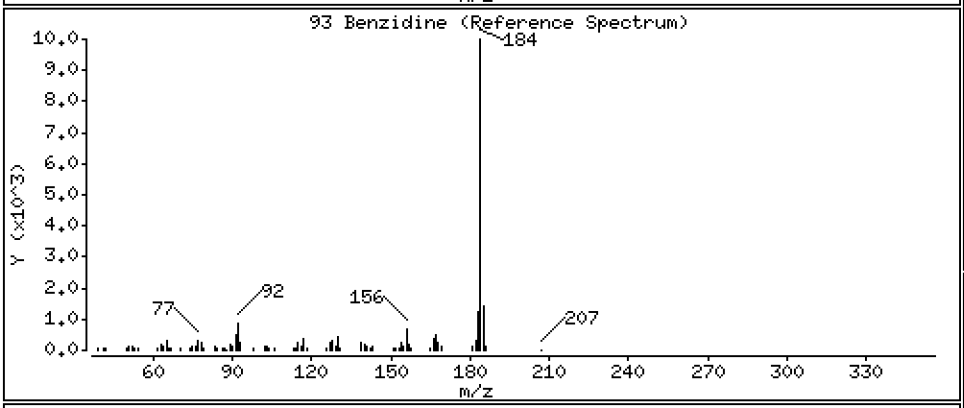
Column diameter: 0.25

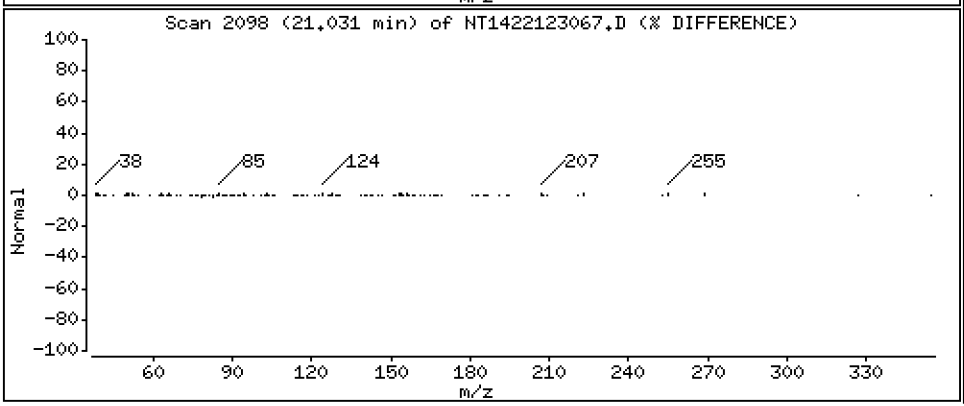
93 Benzidine

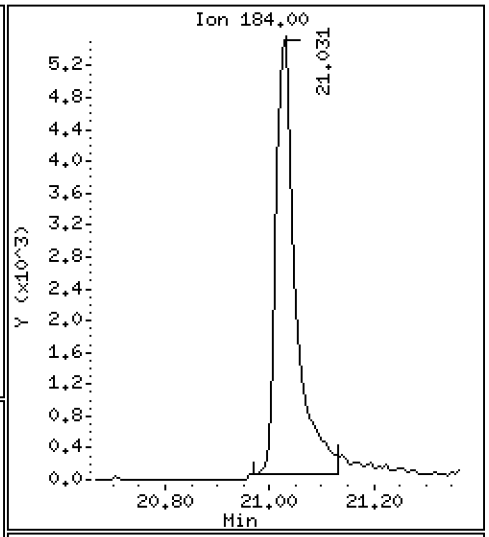
Concentration: 0.4312 ug/mL

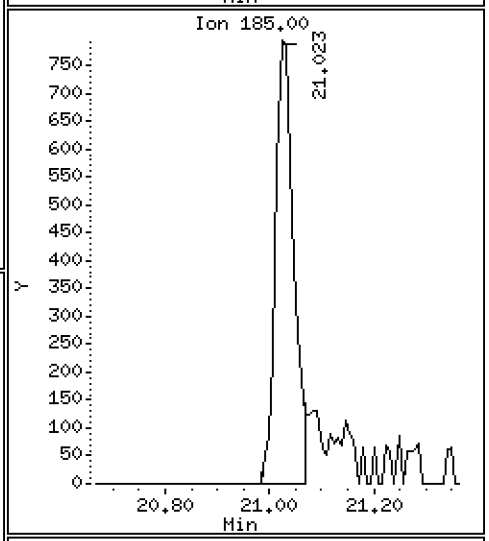


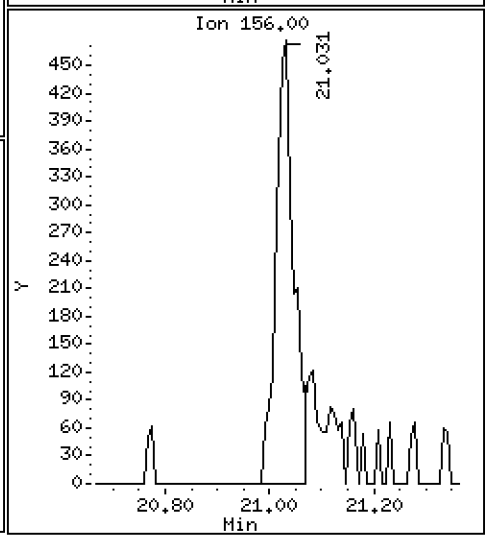












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

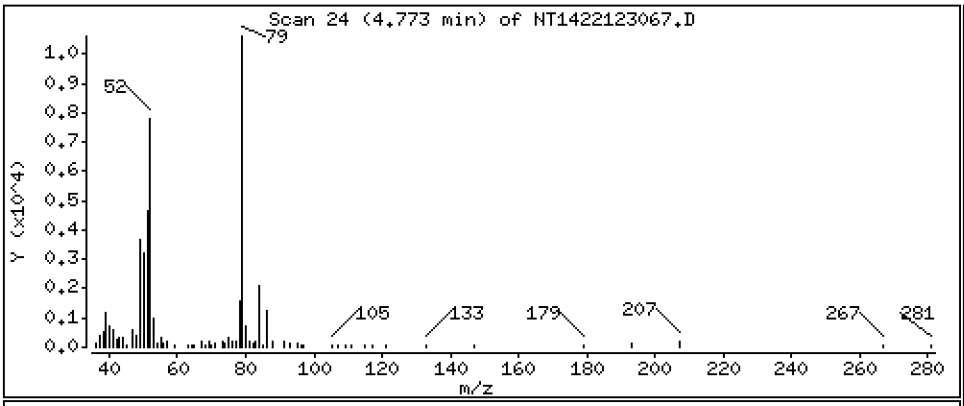
Operator: VTS

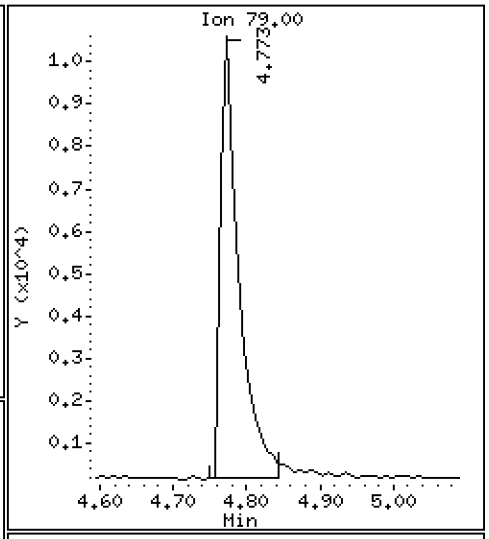
Column phase: ZB-5msi

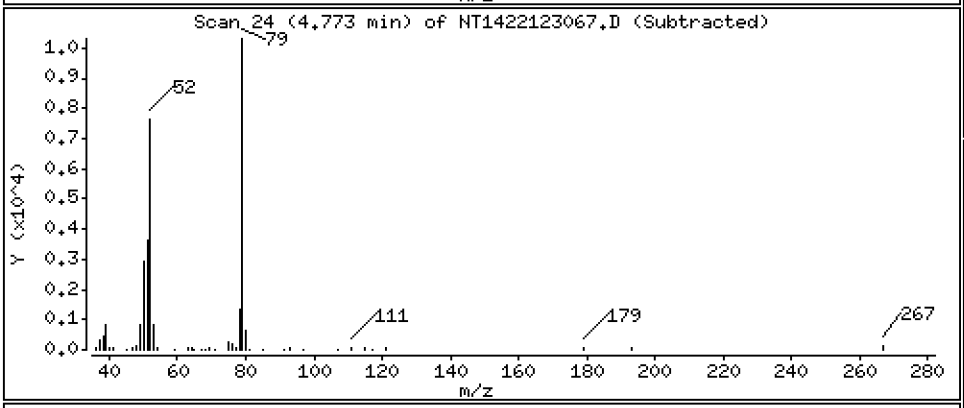
Column diameter: 0.25

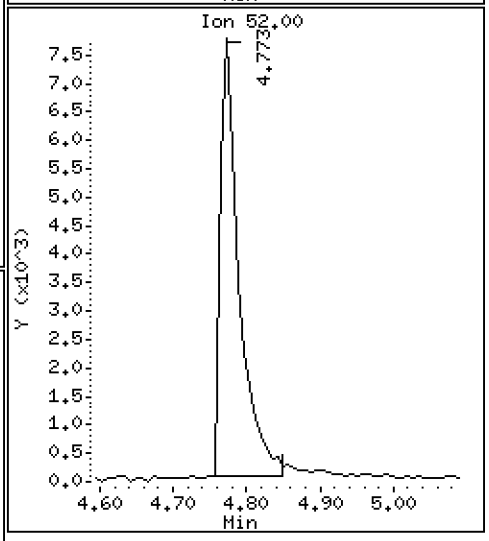
103 Pyridine

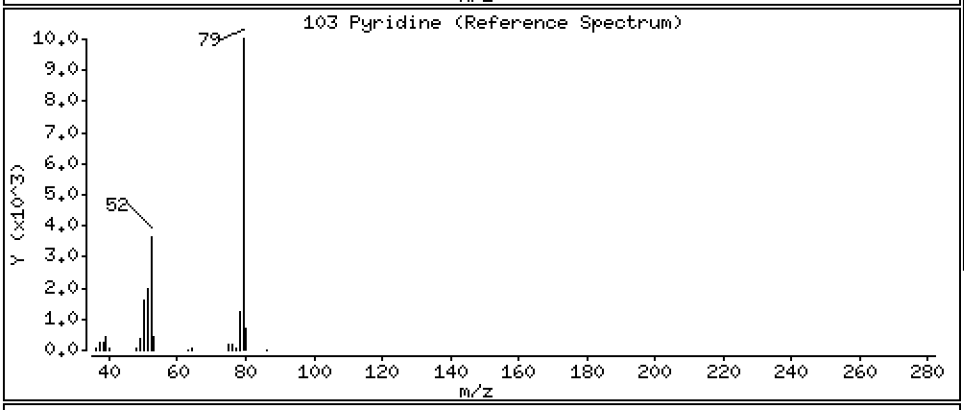
Concentration: 0.2348 ug/mL

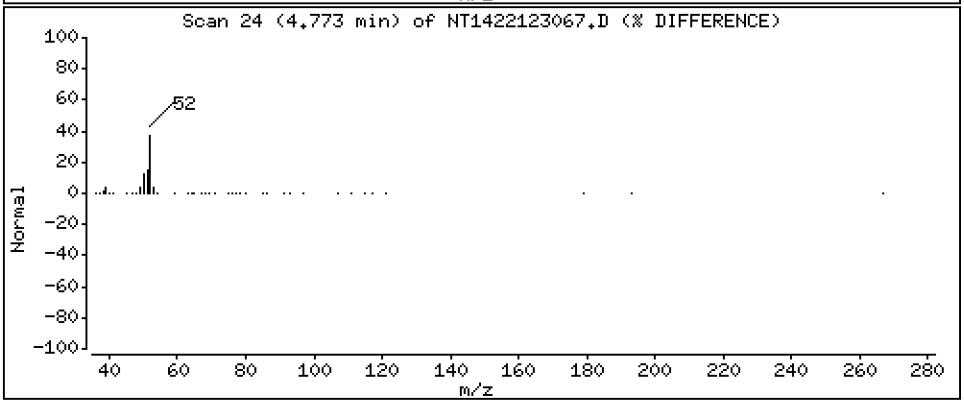












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

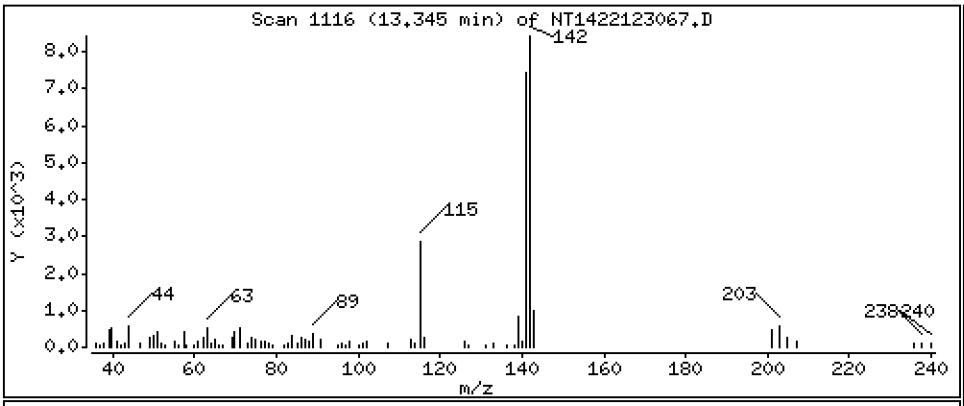
Operator: VTS

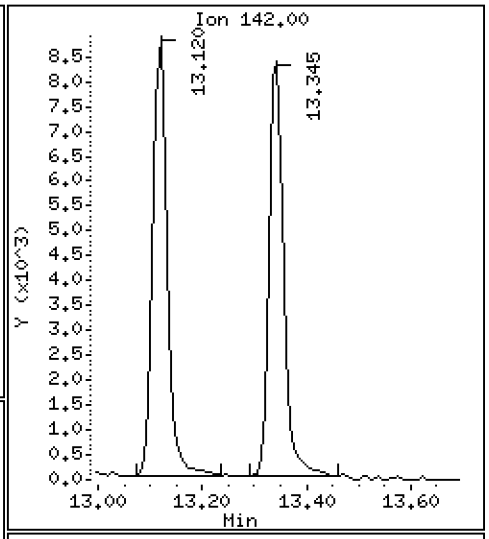
Column phase: ZB-5msi

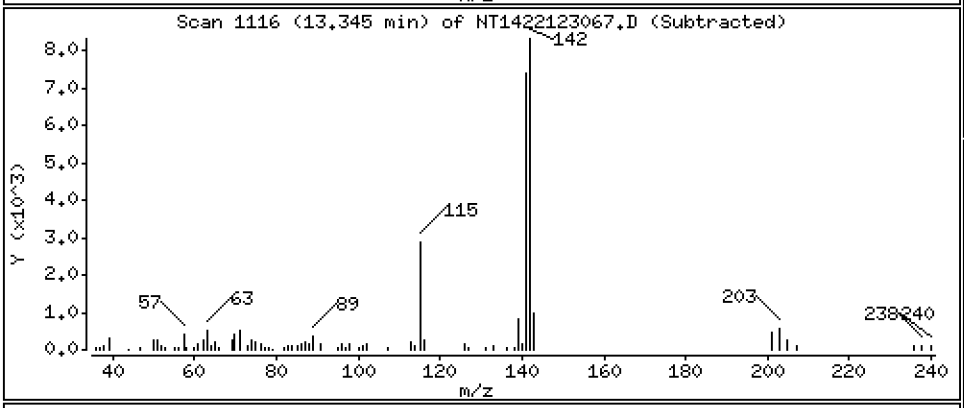
Column diameter: 0.25

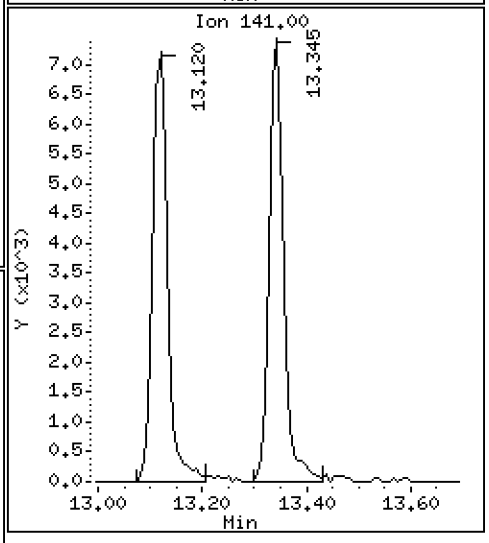
105 1-methylnaphthalene

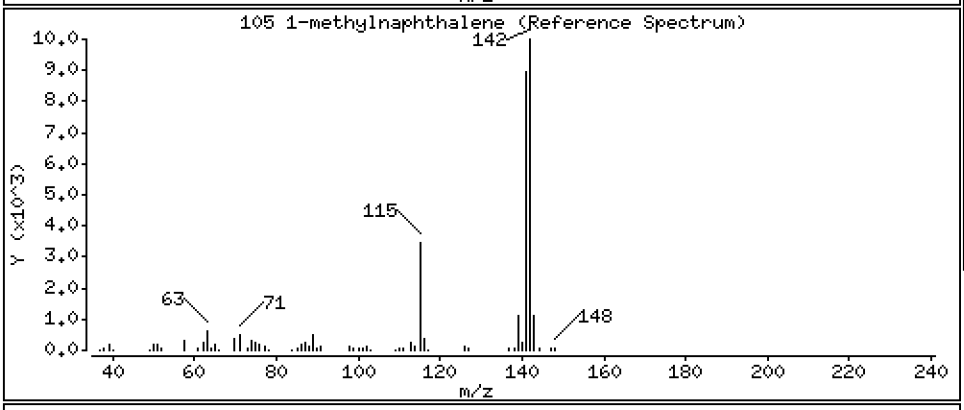
Concentration: 0.2273 ug/mL

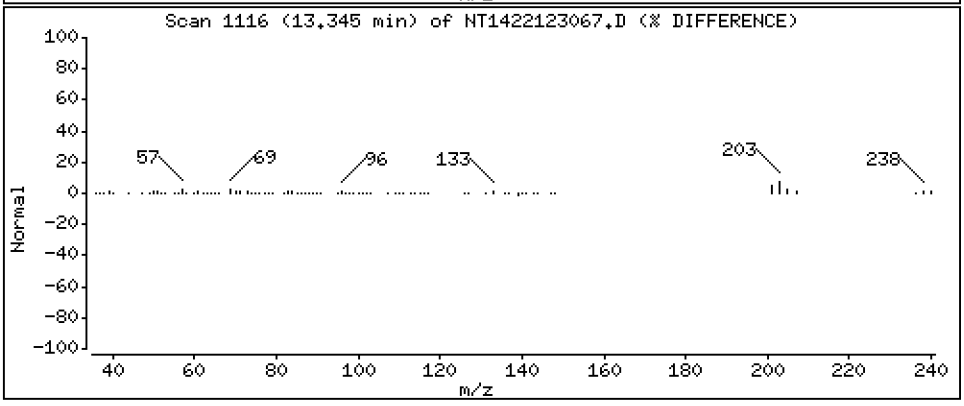












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

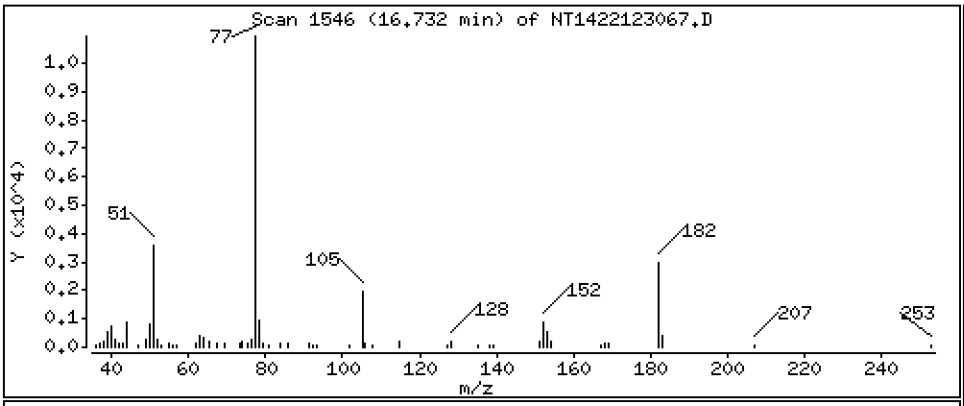
Operator: VTS

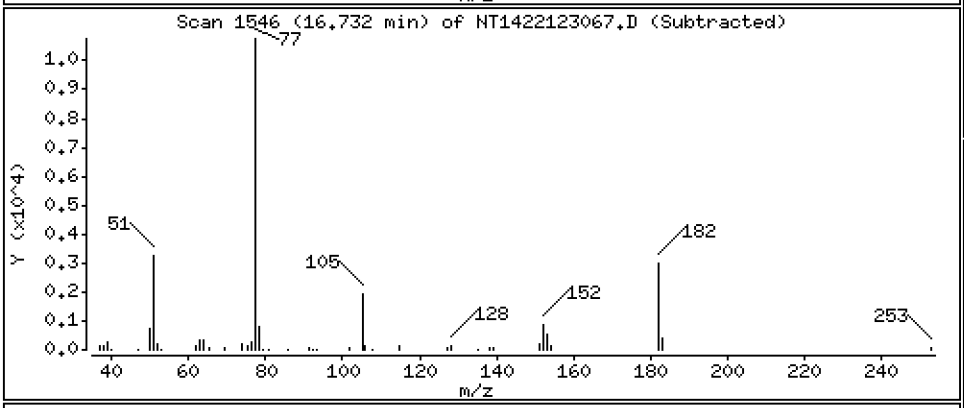
Column phase: ZB-5msi

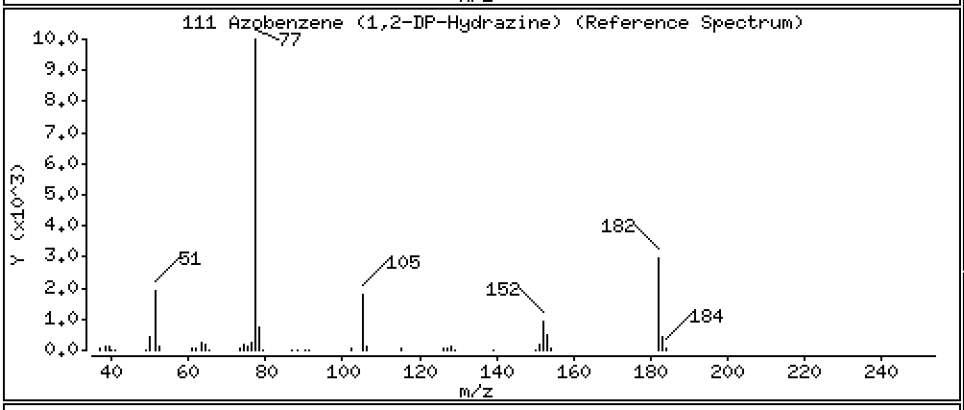
Column diameter: 0.25

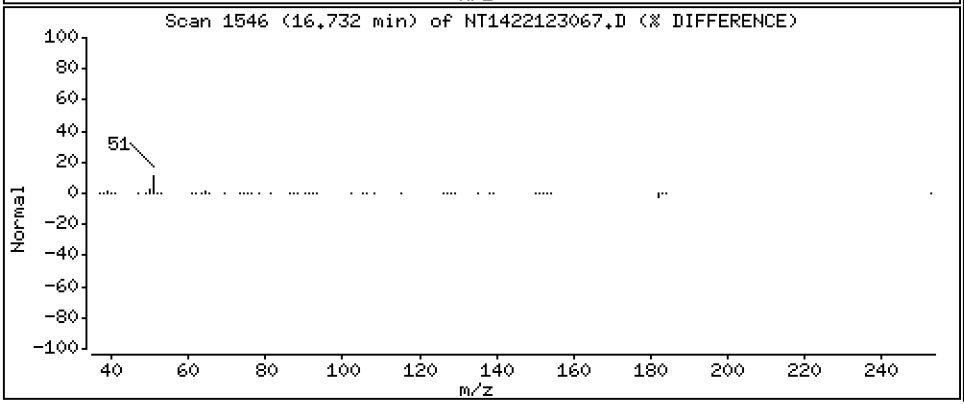
111 Azobenzene (1,2-DP-Hydrazine)

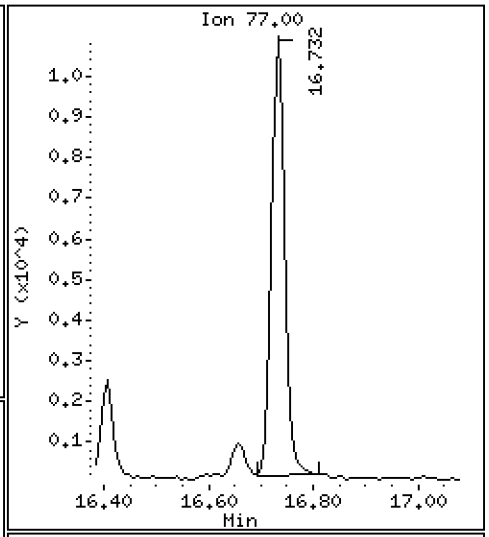
Concentration: 0.2385 ug/mL

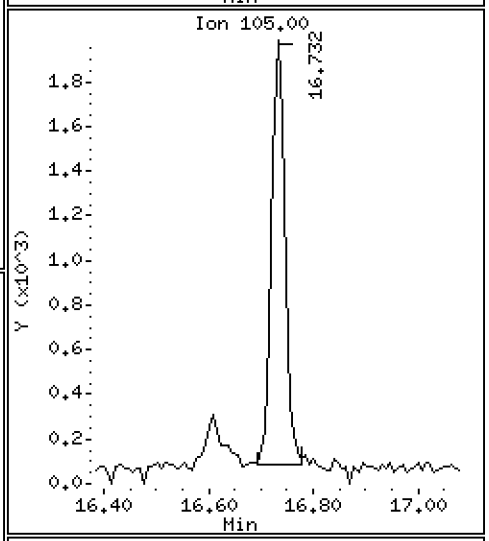


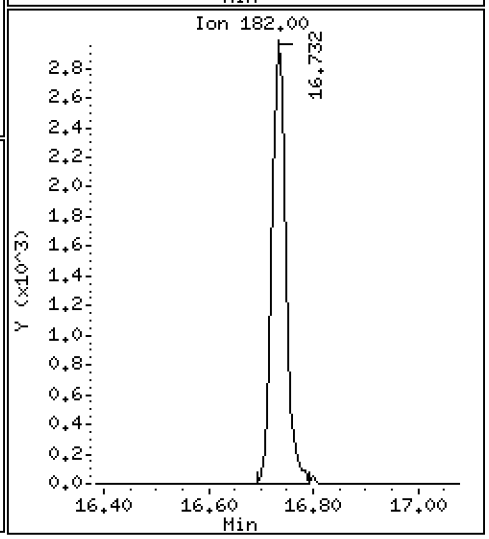












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

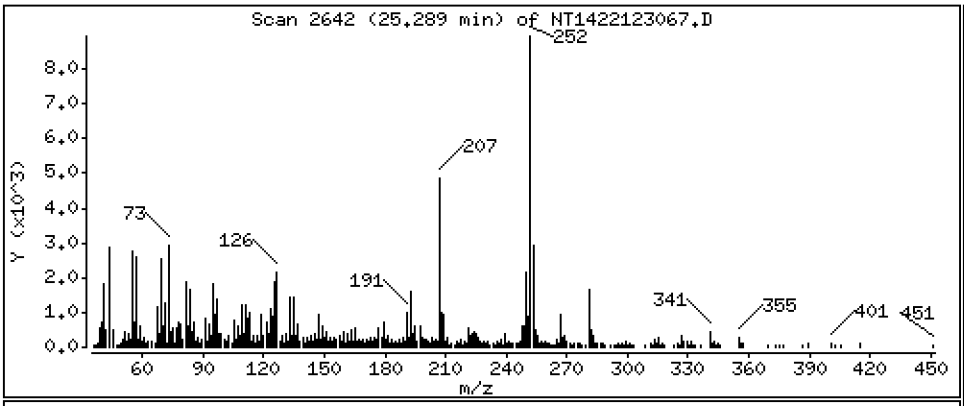
Operator: VTS

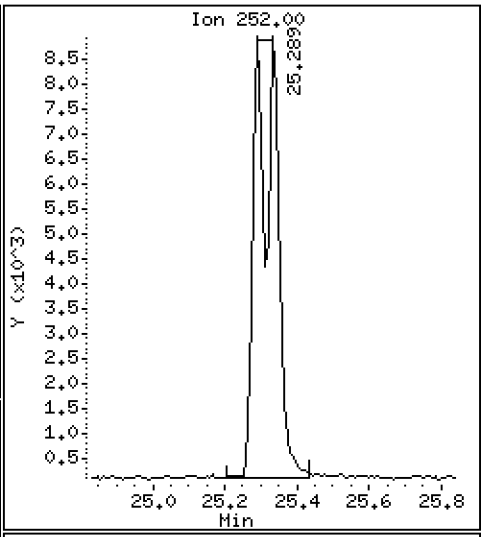
Column phase: ZB-5msi

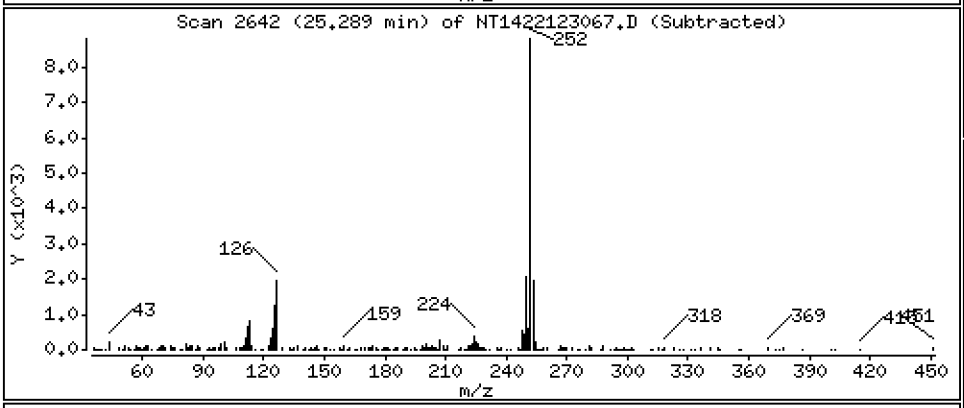
Column diameter: 0.25

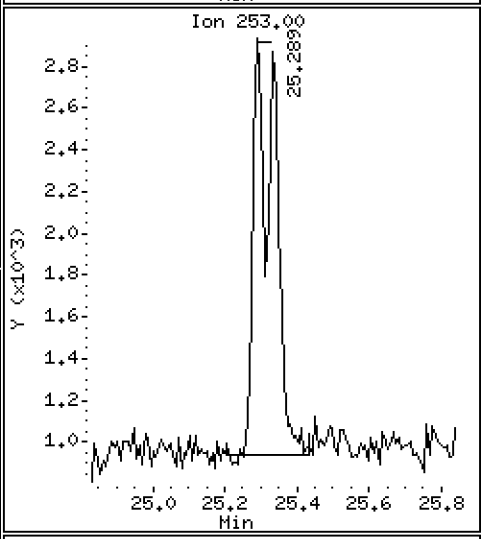
187 Total Benzofluoranthenes

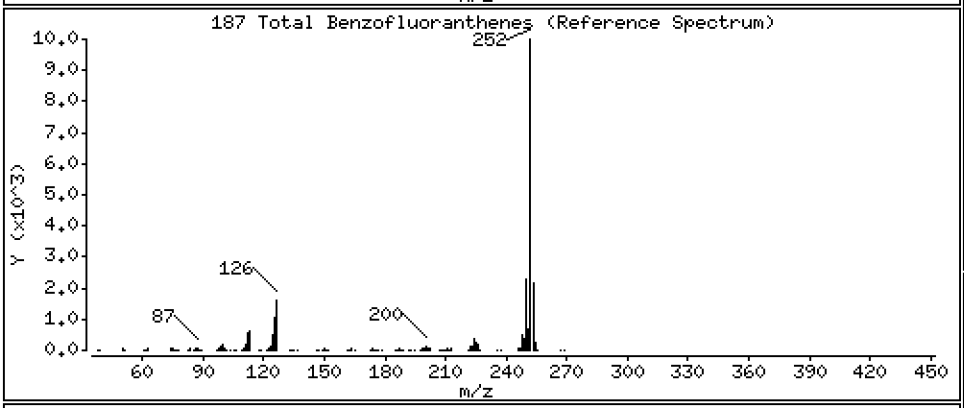
Concentration: 0.5264 ug/mL

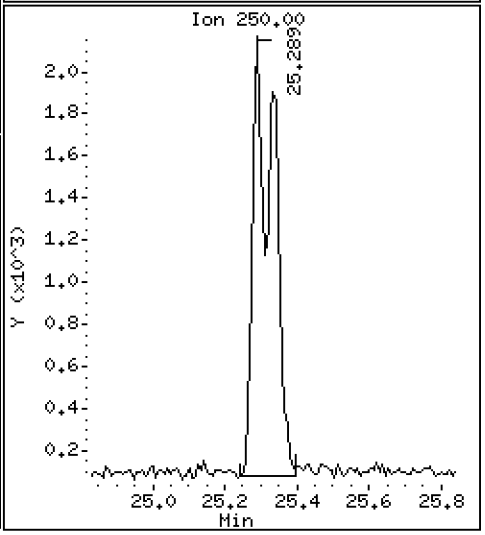


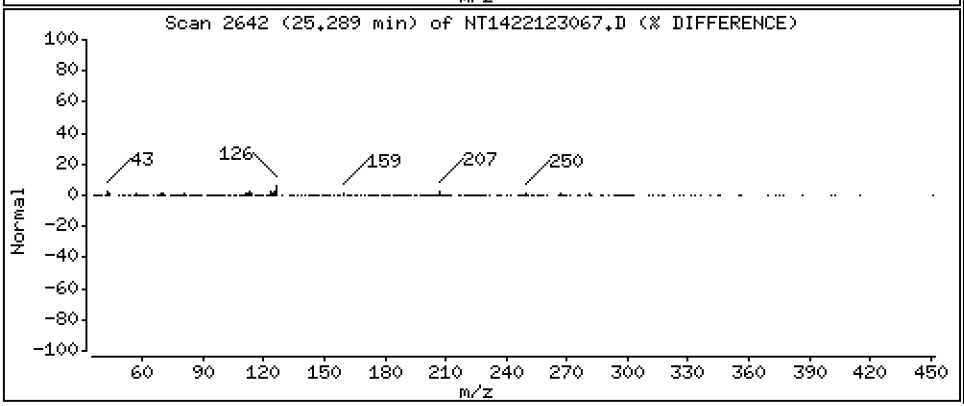












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

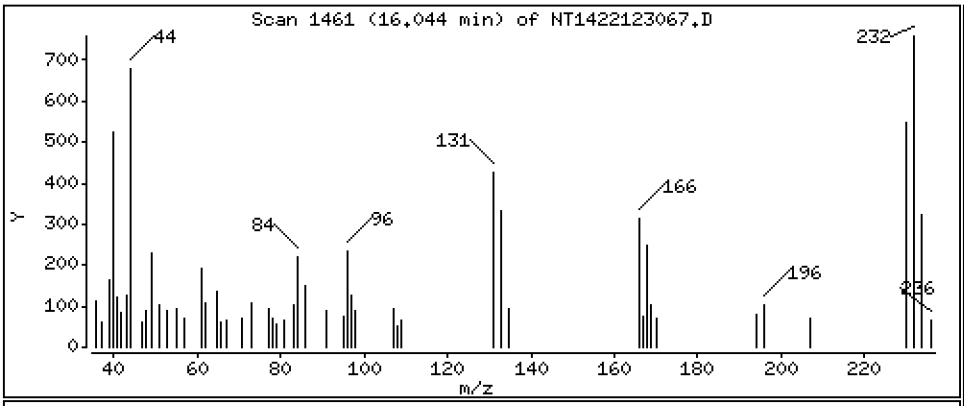
Operator: VTS

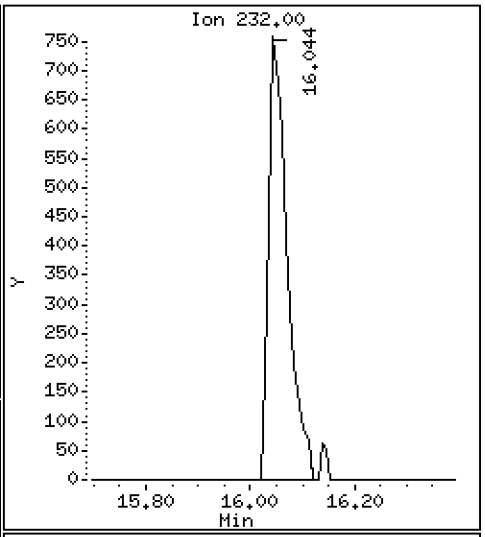
Column phase: ZB-5msi

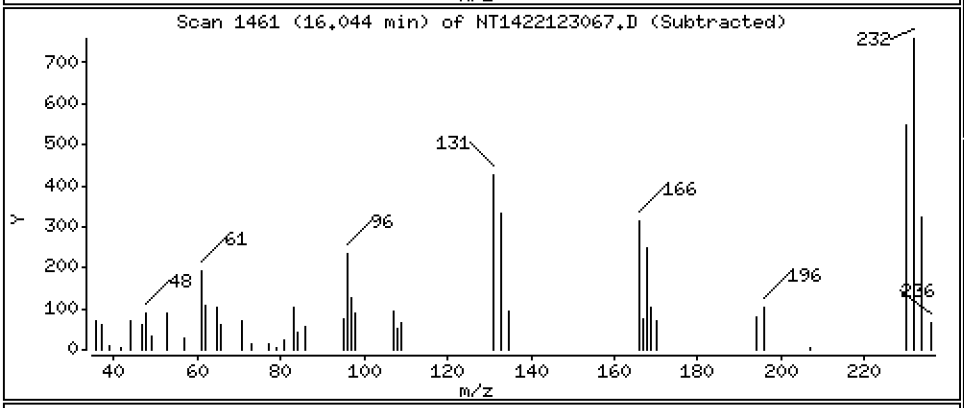
Column diameter: 0.25

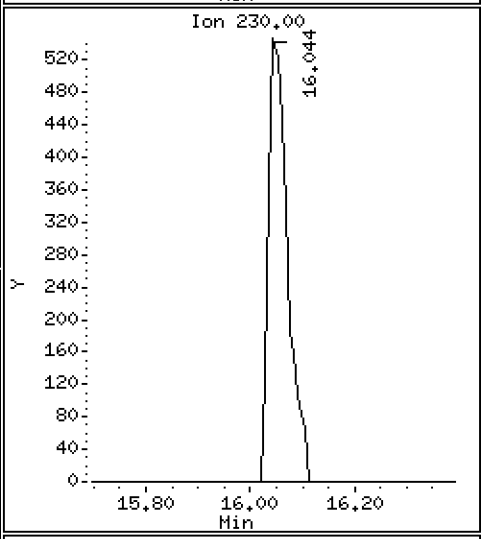
120 2,3,4,6-Tetrachlorophenol

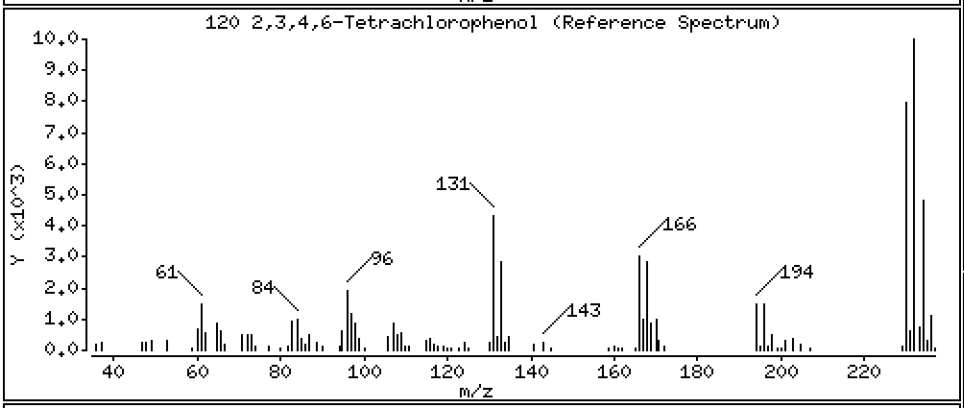
Concentration: 0.1280 ug/mL

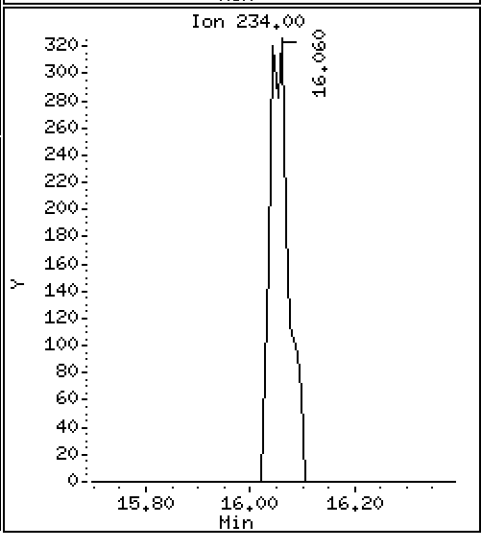


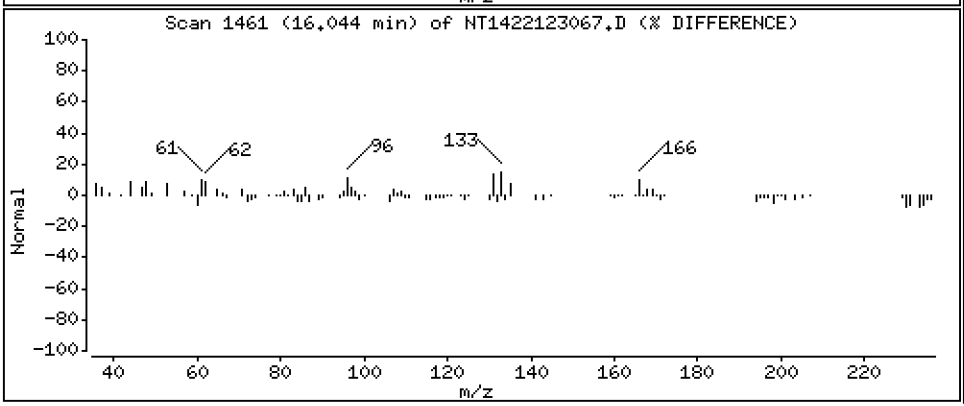












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	12469	0.35660	0.3566
$	2 Phenol-d5	99	8.519	8.519	(0.930)	13476	0.31186	0.3119
	3 Phenol	94	8.542	8.542	(0.932)	11161	0.22731	0.2273
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	12221	0.33675	0.3367
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	8093	0.23927	0.2393
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	9811	0.24616	0.2462
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	10440	0.24702	0.2470
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	109143	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	10018	0.25020	0.2502
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	5962	0.24036	0.2404
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	9504	0.24203	0.2420
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3613	0.16529	0.1653(M)
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	2767	0.24305	0.2430
	13 2-Methylphenol	108	9.665	9.665	(1.055)	7875	0.22072	0.2207
	17 Hexachloroethane	117	10.154	10.154	(1.108)	2915	0.19795	0.1979
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	5112	0.23520	0.2352
	15 4-Methylphenol	108	9.936	9.936	(1.085)	7826	0.20792	0.2079
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	7594	0.22651	0.2265
	19 Nitrobenzene	77	10.293	10.301	(0.882)	7425	0.22300	0.2230
	20 Isophorone	82	10.743	10.751	(0.921)	8370	0.19724	0.1972
	21 2-Nitrophenol	139	10.937	10.937	(0.938)	4304	0.21163	0.2116
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	15950	0.45898	0.4590
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.959)	7789	0.23594	0.2359
	24 Benzoic acid	105	11.131	11.209	(0.954)	4437	0.20974	0.2097(M)
	25 2,4-Dichlorophenol	162	11.403	11.395	(0.977)	12011	0.41003	0.4100
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	7605	0.24010	0.2401
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	397029	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	23009	0.23549	0.2355
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	16324	0.40512	0.4051
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	3740	0.23799	0.2380
	31 4-Chloro-3-methylphenol	107	12.826	12.810	(1.099)	11960	0.43265	0.4327
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	16268	0.22698	0.2270
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	624	0.04042	0.04042

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.739	(0.898)	5867	0.34421	0.3442
	35	2,4,5-Trichlorophenol	196	13.839	13.816	(0.904)	7090	0.36041	0.3604
$	36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	15298	0.22280	0.2228
	37	2-Chloronaphthalene	162	14.118	14.118	(0.922)	13703	0.23460	0.2346
	38	2-Nitroaniline	65	14.381	14.373	(0.939)	6597	0.42959	0.4296
	39	Dimethylphthalate	163	14.799	14.799	(0.967)	12311	0.21377	0.2138
	40	Acenaphthylene	152	14.993	14.993	(0.979)	20407	0.22913	0.2291
	41	2,6-Dinitrotoluene	165	14.946	14.938	(0.976)	4965	0.38201	0.3820
*	42	Acenaphthene-d10	164	15.310	15.310	(1.000)	204214	4.00000	
	43	3-Nitroaniline	138	15.240	15.225	(0.995)	5629	0.35634	0.3563
	44	Acenaphthene	153	15.372	15.371	(1.004)	13024	0.23577	0.2358
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.704	15.704	(1.026)	19925	0.24053	0.2405
	47	4-Nitrophenol	109	15.665	15.557	(1.023)	2026	0.26799	0.2680(M)
	48	2,4-Dinitrotoluene	165	15.758	15.750	(1.029)	6043	0.33888	0.3389
	50	Diethylphthalate	149	16.260	16.268	(1.062)	20315	0.25952	0.2595
	49	Fluorene	166	16.423	16.423	(1.073)	20566	0.23337	0.2334
	51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	9124	0.21148	0.2115
	52	4-Nitroaniline	138	16.531	16.500	(1.080)	7107	0.37385	0.3738(M)
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.600	(0.905)	1281	0.09261	0.09261
	54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	14191	0.25087	0.2509
$	55	2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	2149	0.22461	0.2246
	56	4-Bromophenyl-phenylether	248	17.417	17.410	(0.949)	4781	0.22320	0.2232
	57	Hexachlorobenzene	284	17.734	17.734	(0.966)	5567	0.23683	0.2368
	58	Pentachlorophenol	266	18.106	18.090	(0.986)	206	0.02024	0.02024(M)
*	59	Phenanthrene-d10	188	18.361	18.361	(1.000)	329657	4.00000	
	60	Phenanthrene	178	18.408	18.408	(1.003)	20593	0.23959	0.2396
	61	Anthracene	178	18.500	18.500	(1.008)	19055	0.23223	0.2322
	62	Carbazole	167	18.841	18.825	(1.026)	18308	0.23080	0.2308
	63	Di-n-butylphthalate	149	19.615	19.614	(1.068)	20354	0.22726	0.2273
	64	Fluoranthene	202	20.791	20.791	(0.889)	20667	0.23809	0.2381
	65	Pyrene	202	21.216	21.216	(0.907)	21300	0.23339	0.2334
$	66	Terphenyl-d14	244	21.495	21.495	(0.919)	14382	0.22224	0.2222
	67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	9292	0.26989	0.2699
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	21552	0.26391	0.2639
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	269585	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	20482	0.81929	0.8193
	71	Chrysene	228	23.446	23.446	(1.002)	18735	0.24287	0.2429
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	13030	0.26109	0.2611
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	449369	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	26527	0.24592	0.2459
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	17280	0.24137	0.2414
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	20473	0.28097	0.2810
	76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	15021	0.25240	0.2524
*	77	Perylene-d12	264	26.086	26.086	(1.000)	227797	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.838	(1.106)	10107	0.14940	0.1494
	79	Dibenzo(a,h)anthracene	278	28.877	28.853	(1.107)	8673	0.15086	0.1509
	80	Benzo(g,h,i)perylene	276	29.677	29.653	(1.138)	5996	0.10580	0.1058
	90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	11868	0.49283	0.4928
	91	Aniline	93	8.611	8.611	(0.940)	23141	0.48403	0.4840
	93	Benzidine	184	21.030	21.015	(0.899)	14240	0.43116	0.4312
	103	Pyridine	79	4.772	4.741	(0.521)	17969	0.23482	0.2348
	105	1-methylnaphthalene	142	13.344	13.344	(1.144)	15653	0.22730	0.2273
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	18088	0.23851	0.2385

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

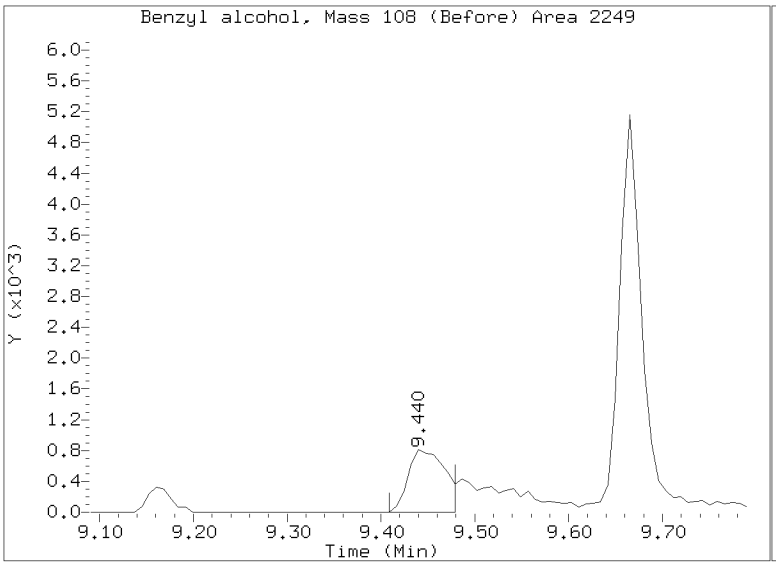
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

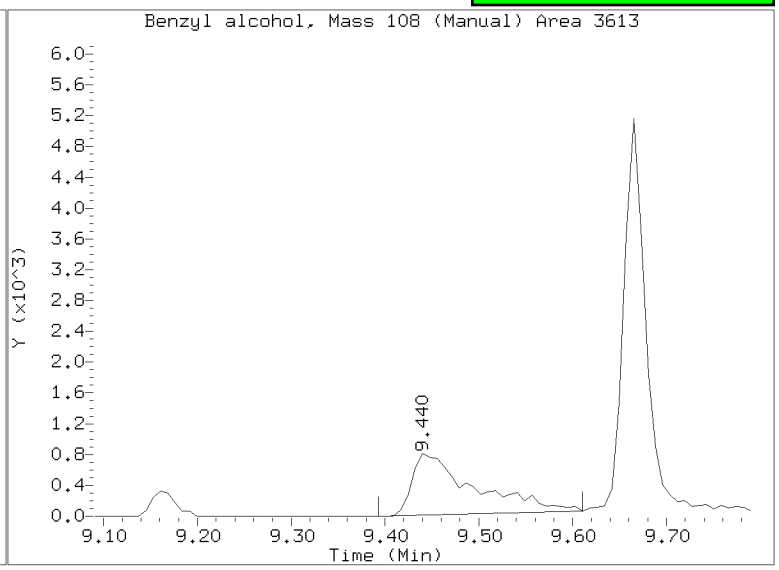
* Only compounds listed in the work order have been verified by the analyst *

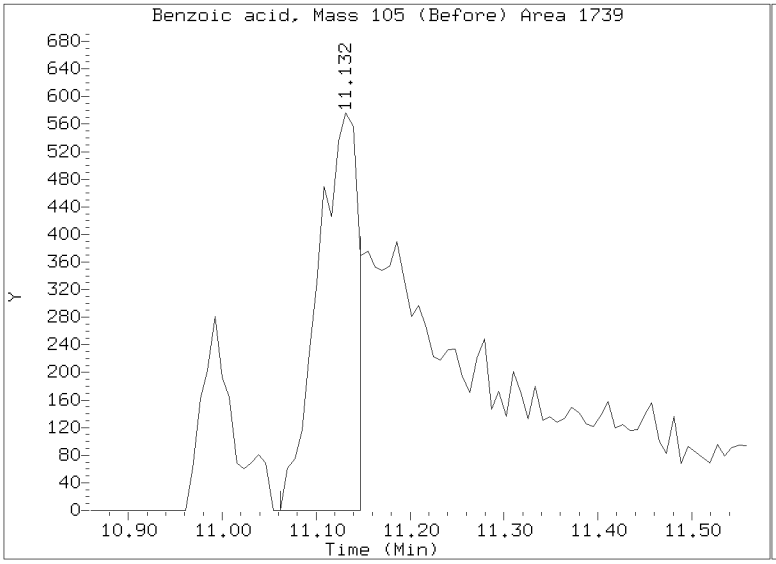
Quant Ion Manual Peak Adjustment Report

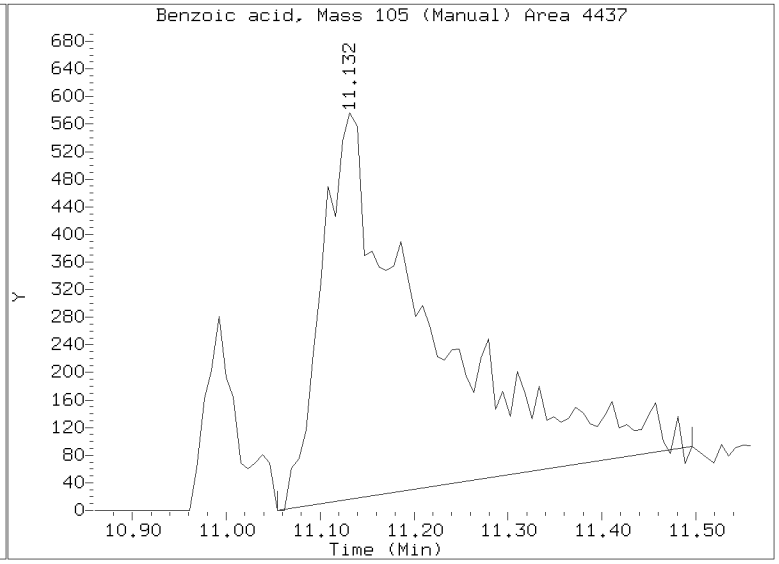
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

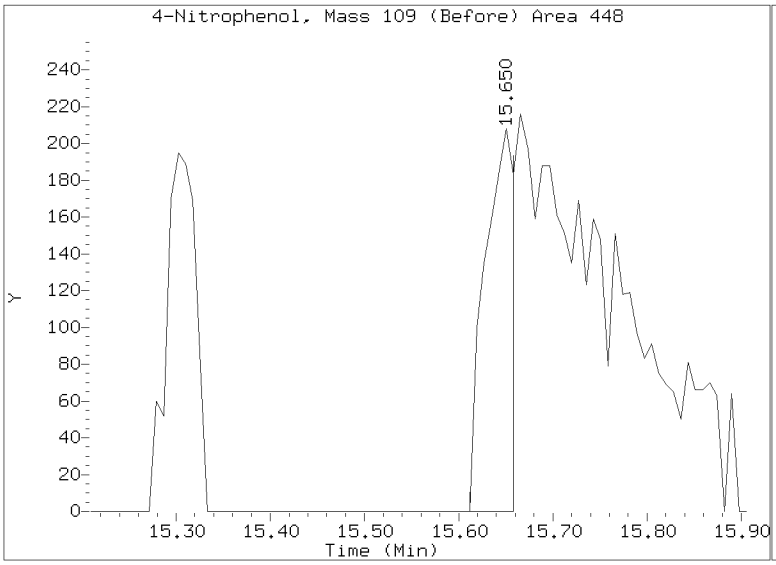
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

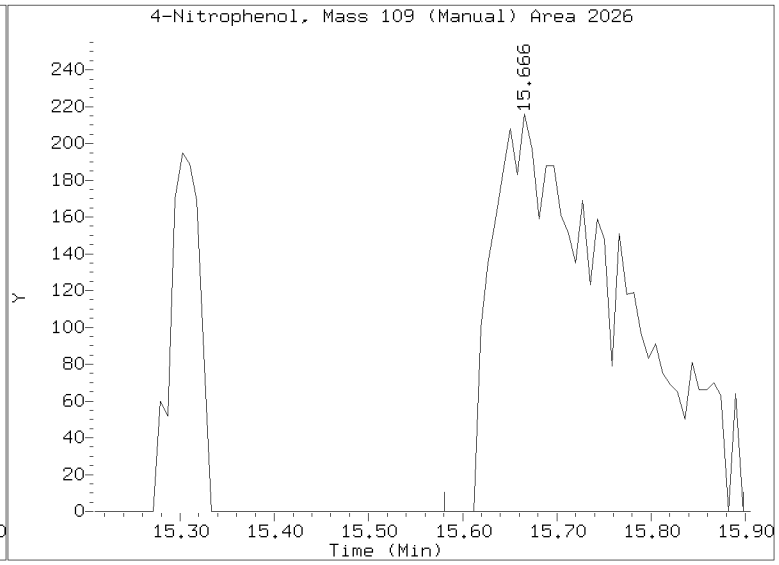








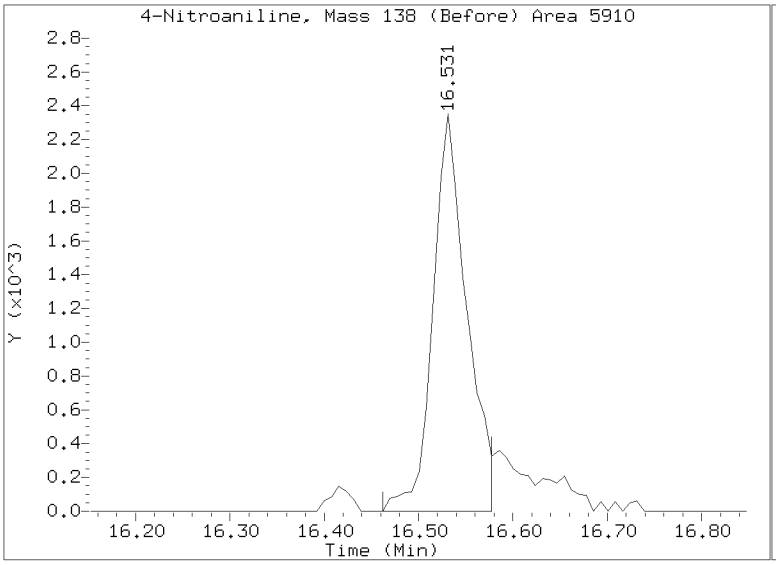


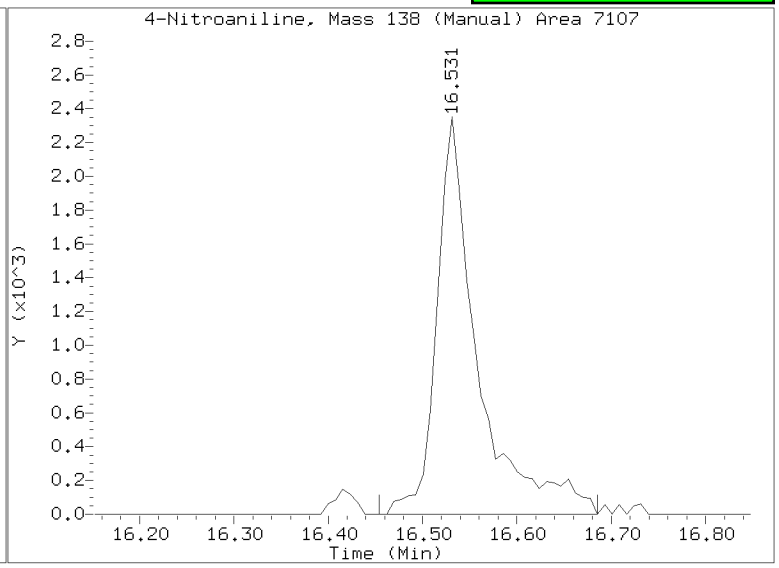


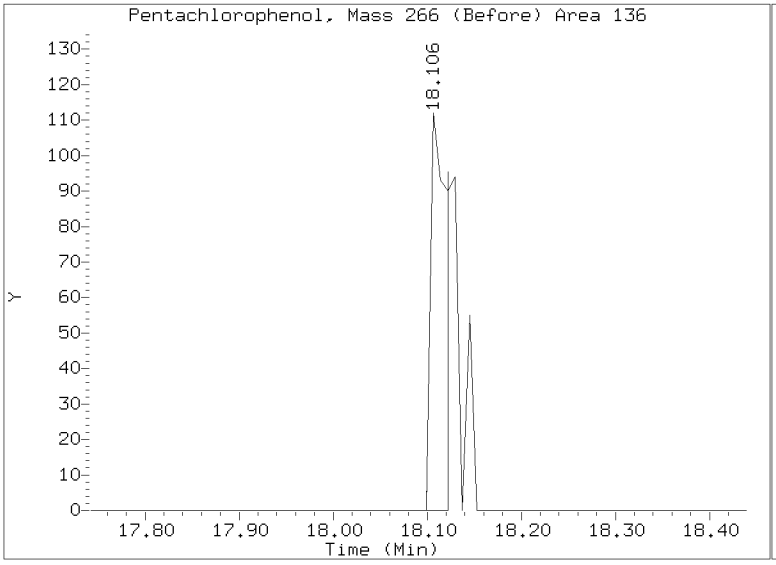
Quant Ion Manual Peak Adjustment Report

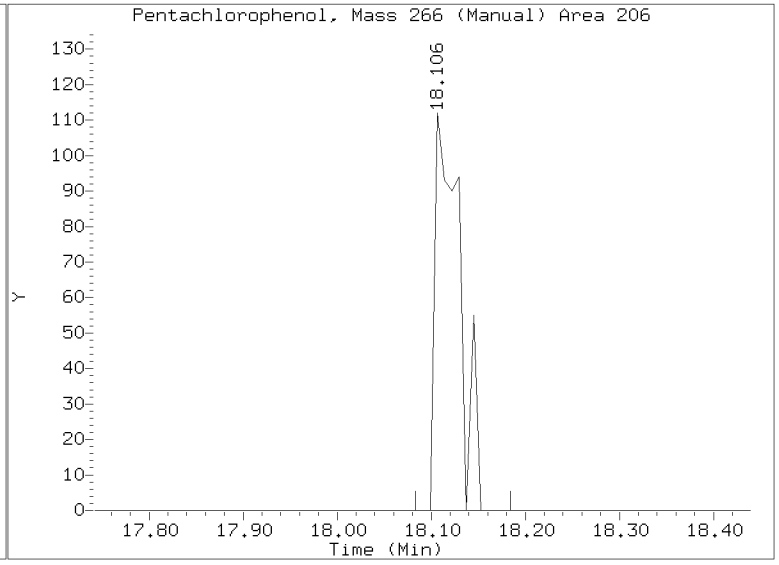
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM









LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.5	-2.8	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.7	50.00
2-Chlorophenol	0.50000	0.5	3.3	50.00
1,3-Dichlorobenzene	0.50000	0.5	-0.4	50.00
1,4-Dichlorobenzene	0.50000	0.5	1.4	50.00
1,2-Dichlorobenzene	0.50000	0.5	-0.8	50.00
Benzyl Alcohol	0.50000	0.4	-22.6	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-5.4	50.00
2-Methylphenol	0.50000	0.5	-2.6	50.00
Hexachloroethane	0.50000	0.4	-17.5	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	1.5	50.00
4-Methylphenol	0.50000	0.5	-6.9	50.00
Nitrobenzene	0.50000	0.5	-6.2	50.00
Isophorone	0.50000	0.5	-9.5	50.00
2-Nitrophenol	0.50000	0.5	-5.4	50.00
2,4-Dimethylphenol	1.0000	1.0	-2.3	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-1.0	50.00
2,4-Dichlorophenol	1.0000	1.0	-4.0	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	-2.2	50.00
Naphthalene	0.50000	0.5	-2.9	50.00
Benzoic acid	2.0000	0.4	-77.6	50.00
4-Chloroaniline	1.0000	0.9	-11.1	50.00
Hexachlorobutadiene	0.50000	0.5	-4.5	50.00
4-Chloro-3-Methylphenol	1.0000	0.9	-5.0	50.00
2-Methylnaphthalene	0.50000	0.5	-6.9	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-86.3	50.00
2,4,6-Trichlorophenol	1.0000	0.9	-12.6	50.00
2,4,5-Trichlorophenol	1.0000	0.8	-19.8	50.00
2-Chloronaphthalene	0.50000	0.5	-3.8	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

2-Nitroaniline	1.0000	1.0	-1.3	50.00
Acenaphthylene	0.50000	0.5	-0.4	50.00
Dimethylphthalate	0.50000	0.5	-0.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-12.7	50.00
Acenaphthene	0.50000	0.5	-0.9	50.00
3-Nitroaniline	1.0000	0.8	-15.1	50.00
2,4-Dinitrophenol	2.0000	0.01	-99.4	50.00
Dibenzofuran	0.50000	0.5	-1.4	50.00
4-Nitrophenol	1.0000	0.7	-32.8	50.00
2,4-Dinitrotoluene	1.0000	0.8	-22.2	50.00
Fluorene	0.50000	0.5	-2.4	50.00
4-Chlorophenylphenyl ether	0.50000	0.5	2.5	50.00
Diethyl phthalate	0.50000	0.6	14.4	50.00
4-Nitroaniline	1.0000	0.8	-16.9	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.4	-80.9	50.00
N-Nitrosodiphenylamine	0.50000	0.5	2.3	50.00
4-Bromophenyl phenyl ether	0.50000	0.5	-5.4	50.00
Hexachlorobenzene	0.50000	0.5	-2.6	50.00
Pentachlorophenol	1.0000	0.1	-89.6	50.00
Phenanthrene	0.50000	0.5	-3.4	50.00
Anthracene	0.50000	0.5	-3.0	50.00
Carbazole	0.50000	0.5	-6.4	50.00
Di-n-Butylphthalate	0.50000	0.5	-4.2	50.00
Fluoranthene	0.50000	0.5	-5.6	50.00
Pyrene	0.50000	0.5	-3.8	50.00
Butylbenzylphthalate	0.50000	0.5	5.2	50.00
Benzo(a)anthracene	0.50000	0.5	4.1	50.00
3,3'-Dichlorobenzidine	1.5000	1.6	9.4	50.00
Chrysene	0.50000	0.5	0.02	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	2.7	50.00
Di-n-Octylphthalate	0.50000	0.5	-2.0	50.00

LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SKL0355-LCV4
Sequence: SKL0355
Standard ID: K011106

Benzofluoranthenes, Total	1.0000	1.1	12.7	50.00
Benzo(a)pyrene	0.50000	0.5	5.9	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.3	-42.5	50.00
Dibenzo(a,h)anthracene	0.50000	0.3	-41.0	50.00
Benzo(g,h,i)perylene	0.50000	0.2	-51.8	50.00
1-Methylnaphthalene	0.50000	0.5	-5.2	50.00
2-Fluorophenol	0.75000	0.732	-2.4	50.00
Phenol-d5	0.75000	0.661	-11.9	50.00
2-Chlorophenol-d4	0.75000	0.698	-7.0	50.00
1,2-Dichlorobenzene-d4	0.50000	0.480	-4.0	50.00
Nitrobenzene-d5	0.50000	0.483	-3.4	50.00
2-Fluorobiphenyl	0.50000	0.472	-5.6	50.00
2,4,6-Tribromophenol	0.75000	0.538	-28.3	50.00
p-Terphenyl-d14	0.50000	0.451	-9.7	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Page 1

Date : 01-JAN-2023 00:42

Client ID:

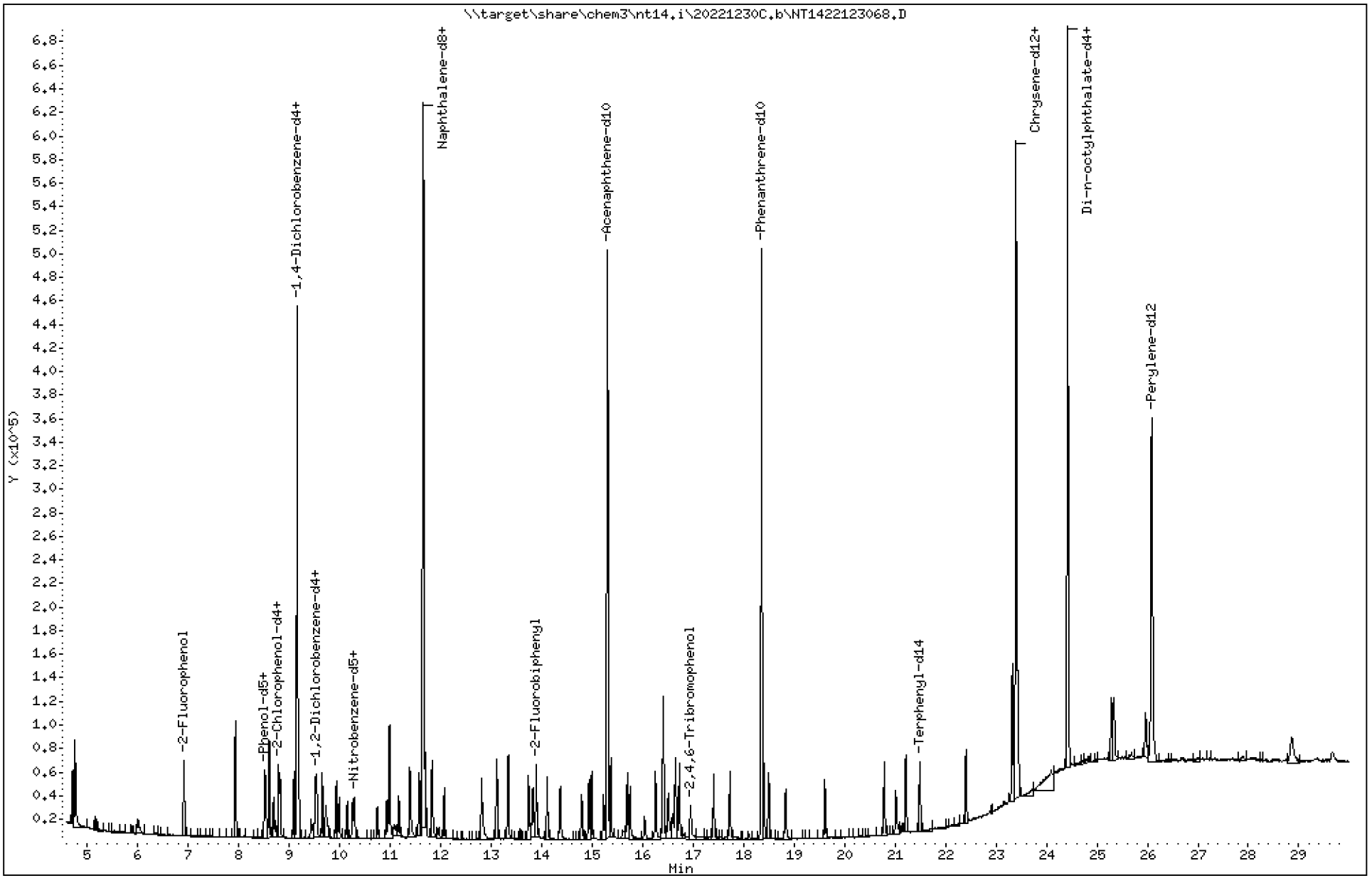
Instrument: nt14.i

Sample Info: SKL0355-LCV4

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2246 of 5449

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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

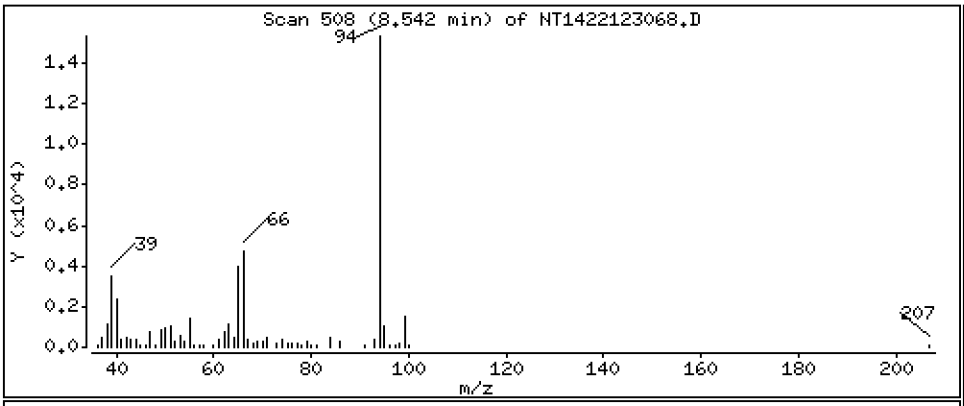
Operator: VTS

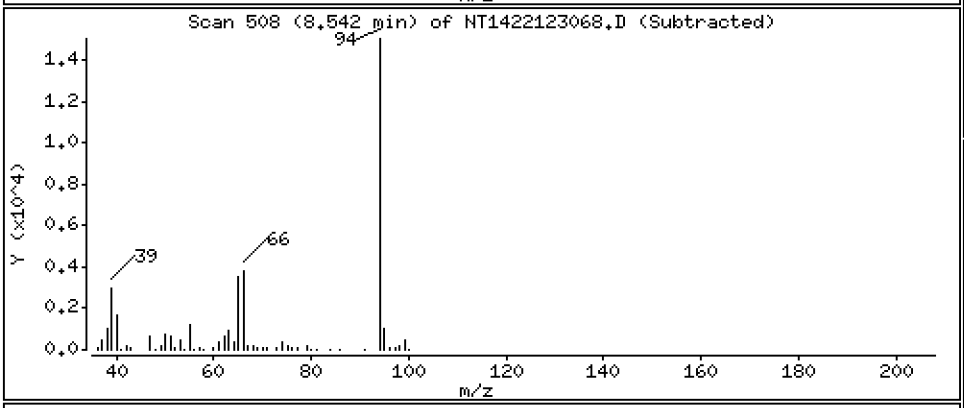
Column phase: ZB-5msi

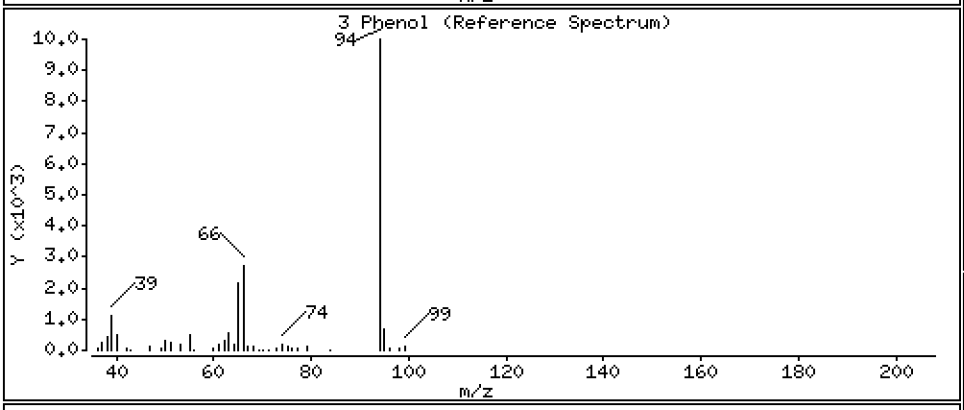
Column diameter: 0.25

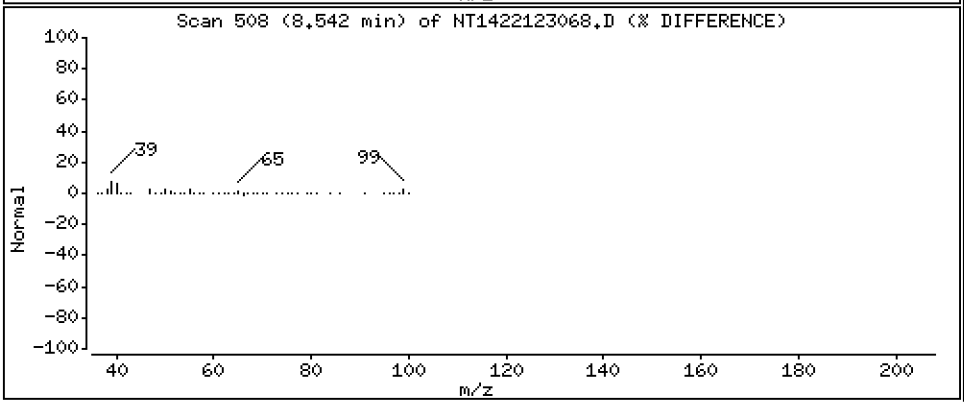
3 Phenol

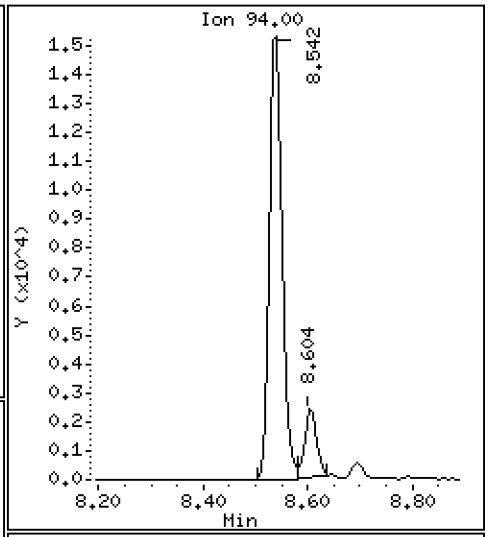
Concentration: 0.4858 ug/mL

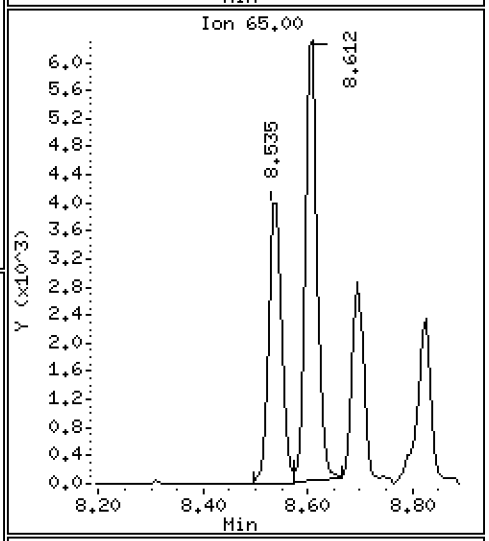


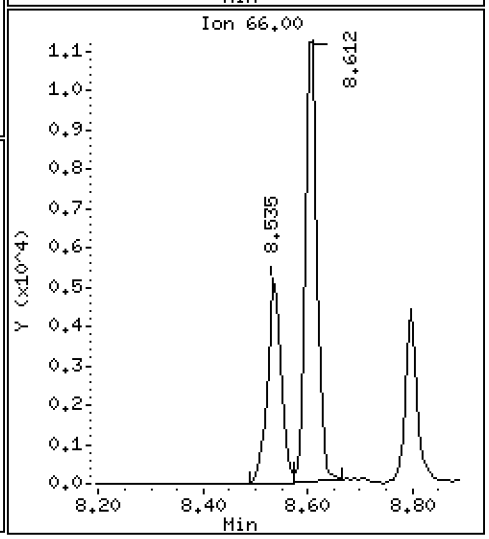












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

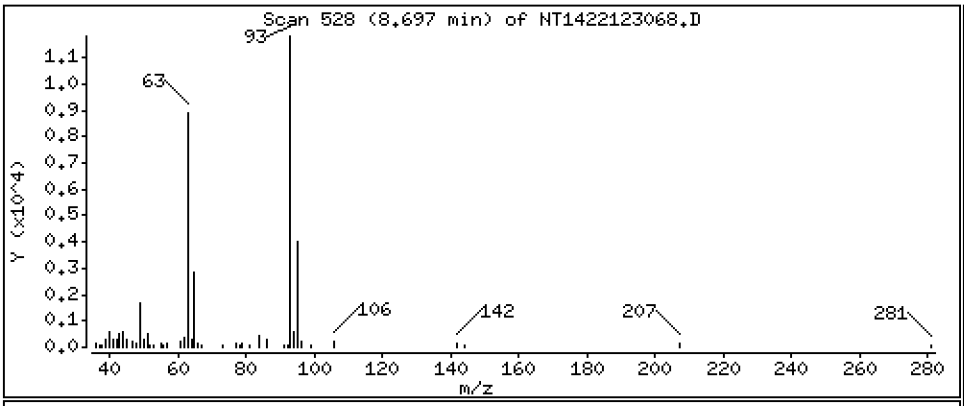
Operator: VTS

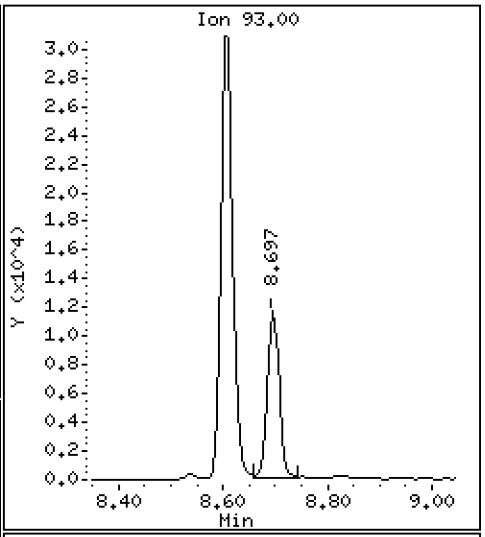
Column phase: ZB-5msi

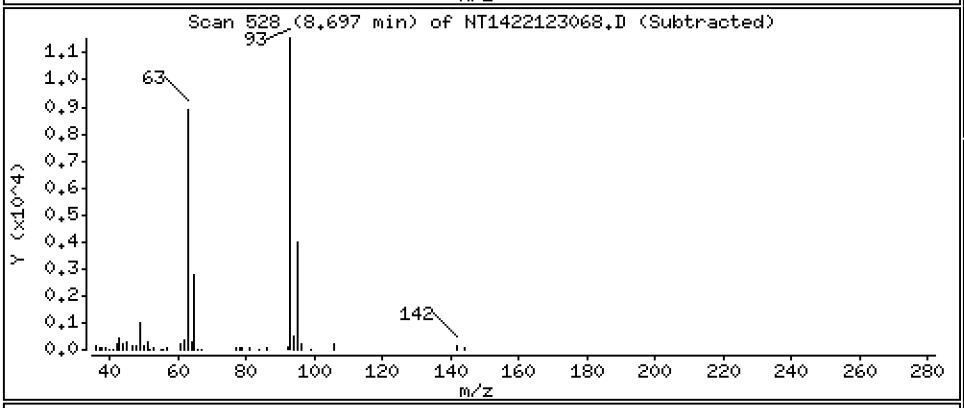
Column diameter: 0.25

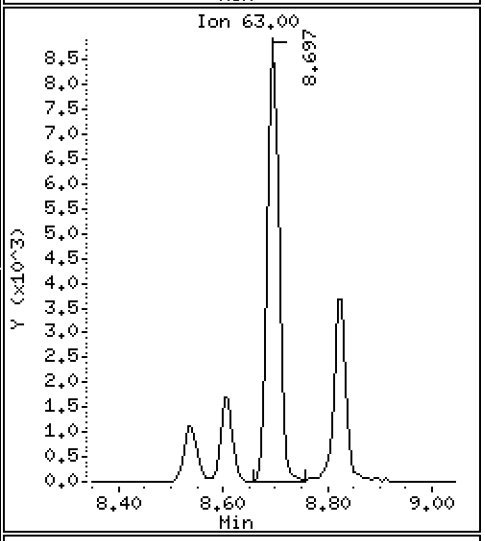
4 Bis(2-Chloroethyl)ether

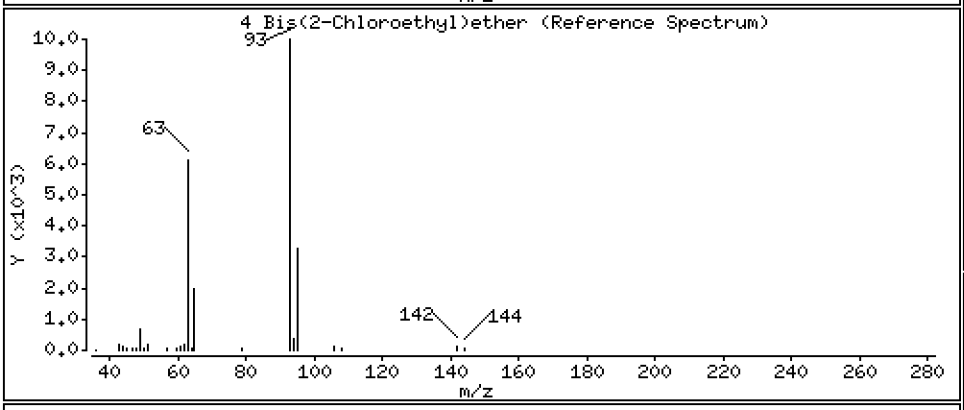
Concentration: 0.4816 ug/mL

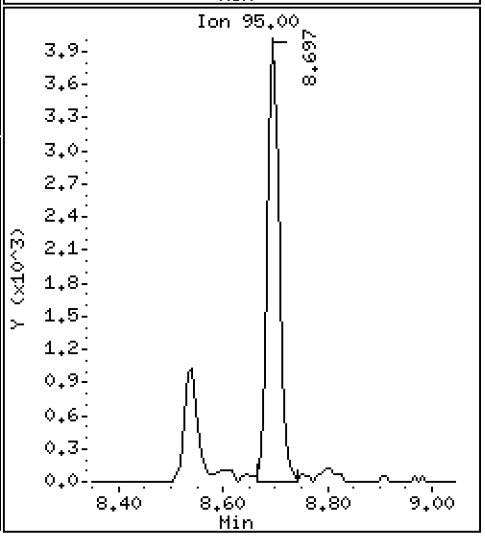


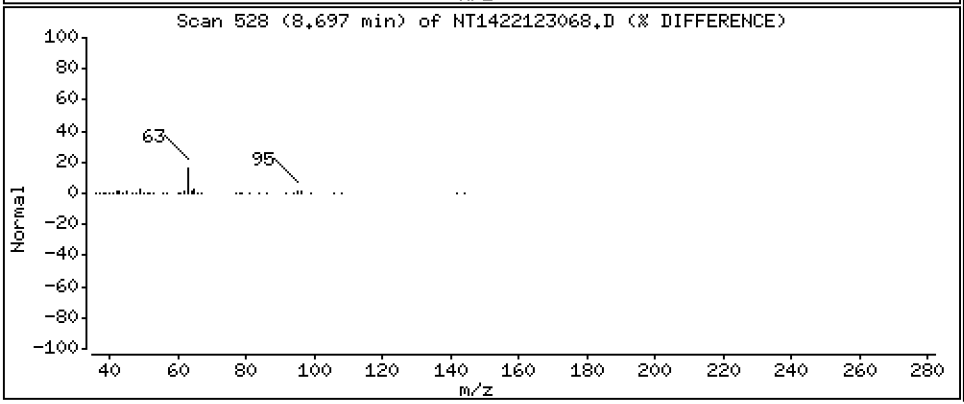












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

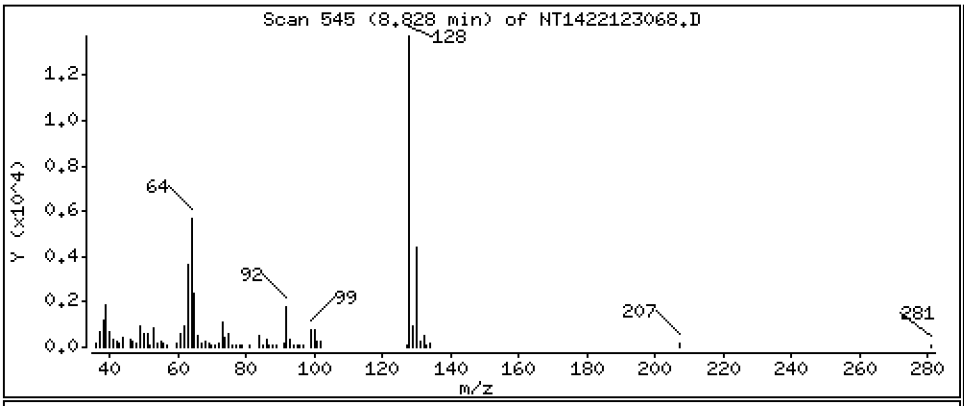
Operator: VTS

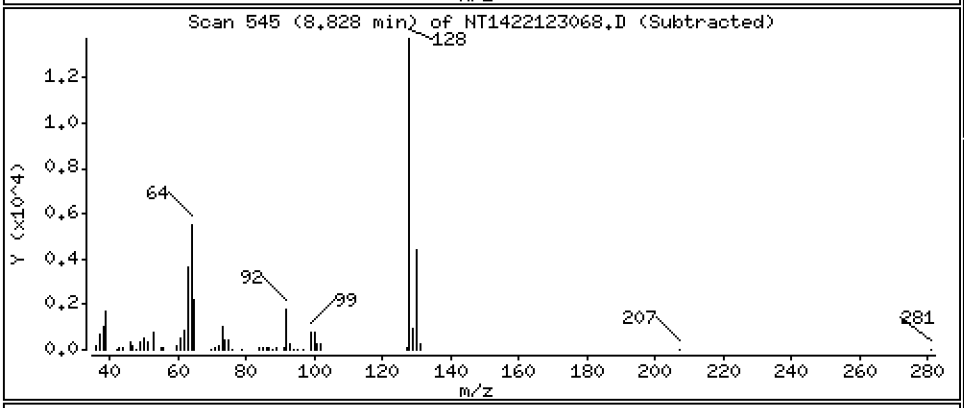
Column phase: ZB-5msi

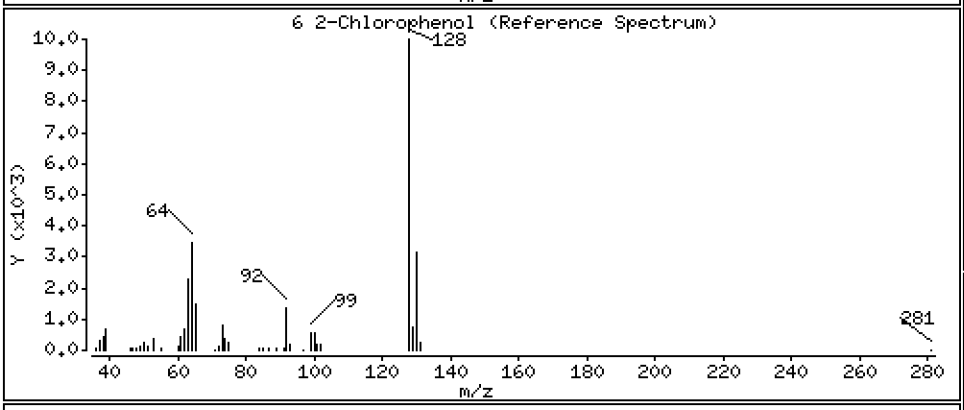
Column diameter: 0.25

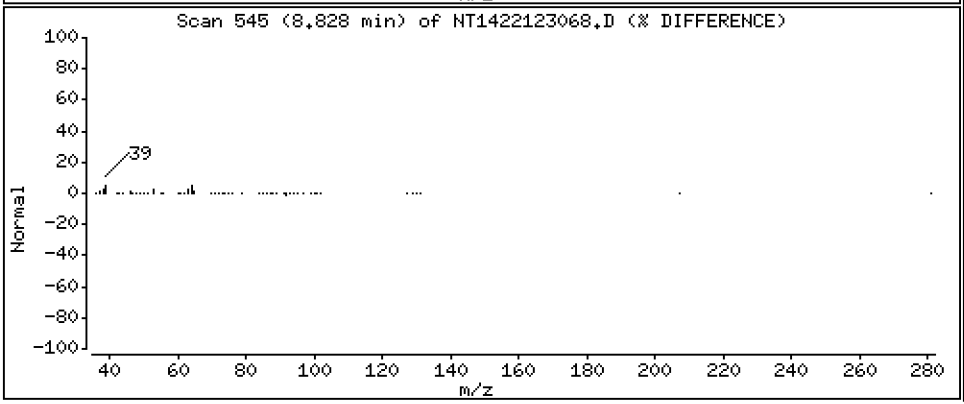
6 2-Chlorophenol

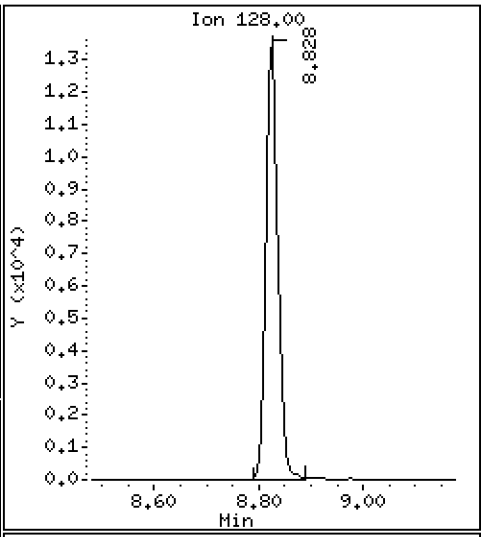
Concentration: 0.5163 ug/mL

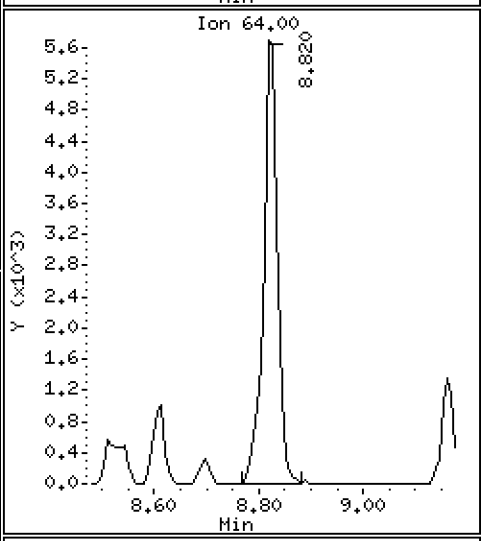


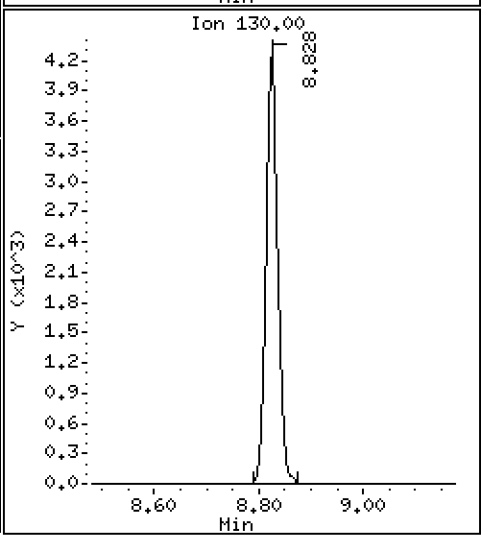












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

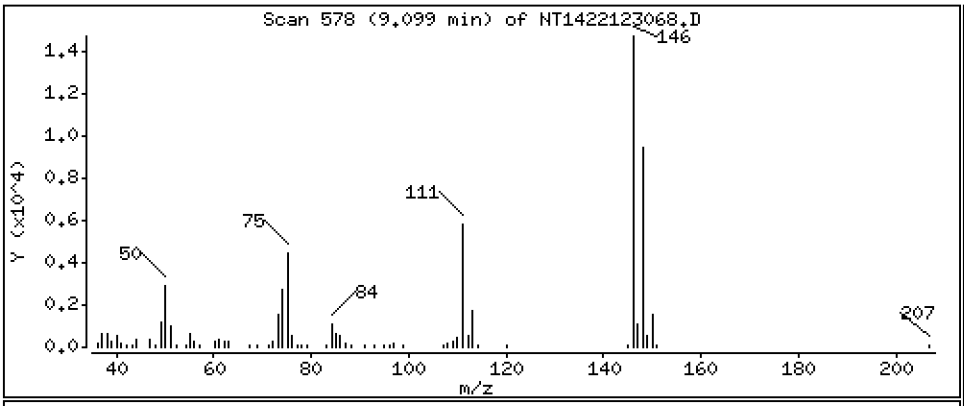
Operator: VTS

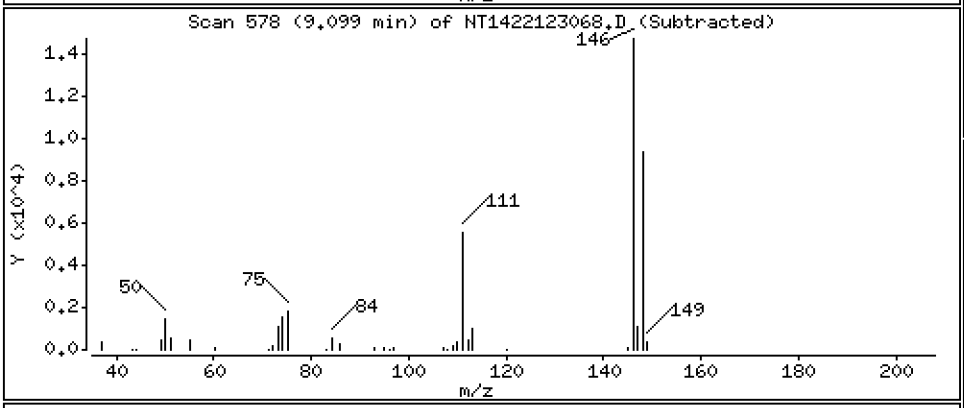
Column phase: ZB-5msi

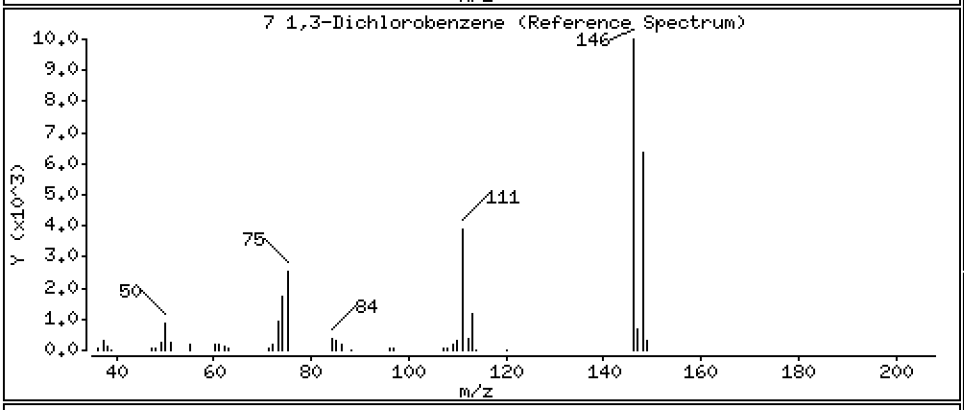
Column diameter: 0.25

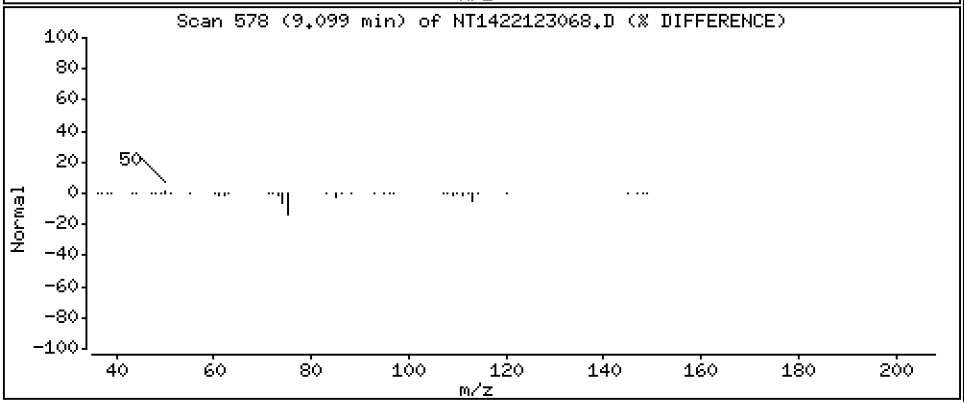
7 1,3-Dichlorobenzene

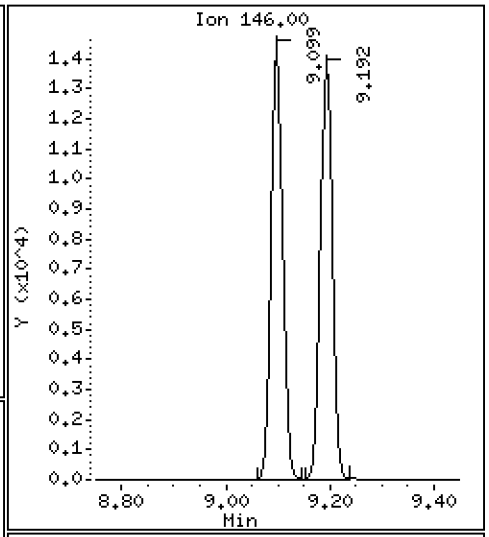
Concentration: 0.4981 ug/mL

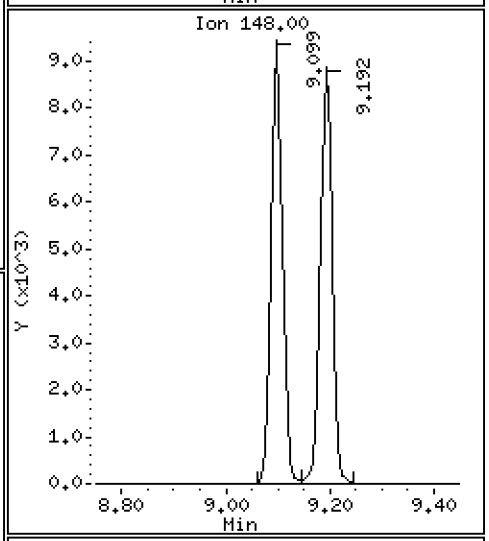


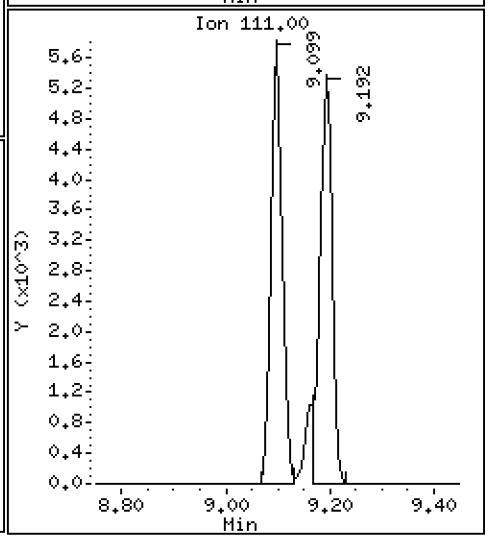












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

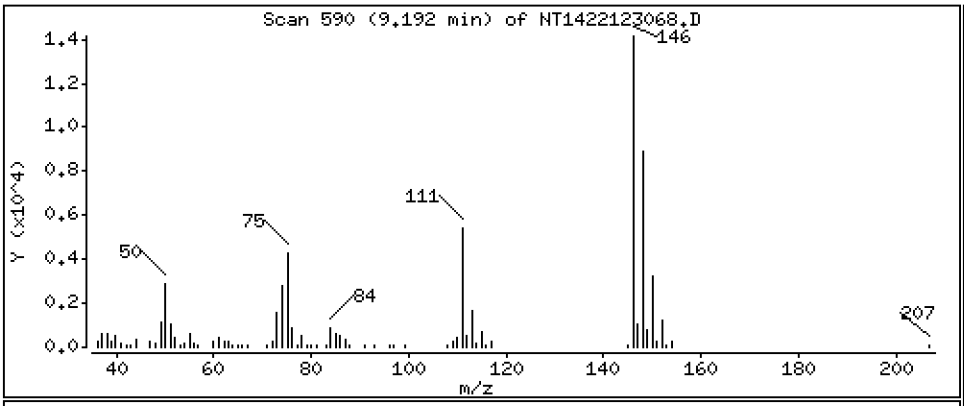
Operator: VTS

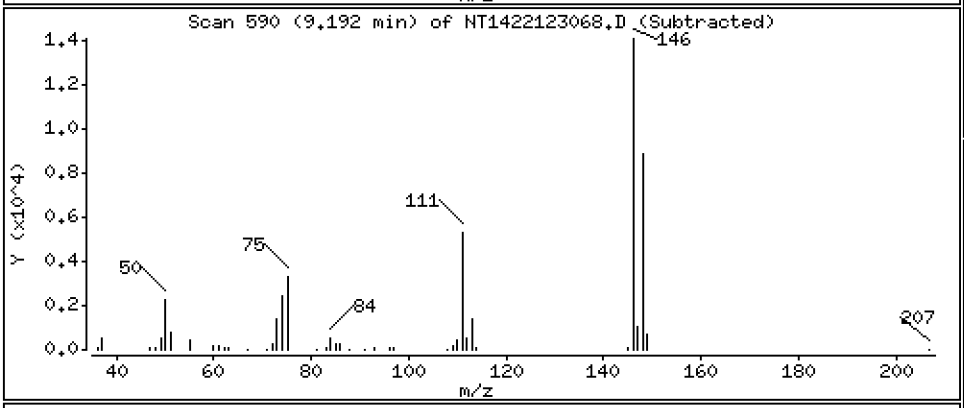
Column phase: ZB-5msi

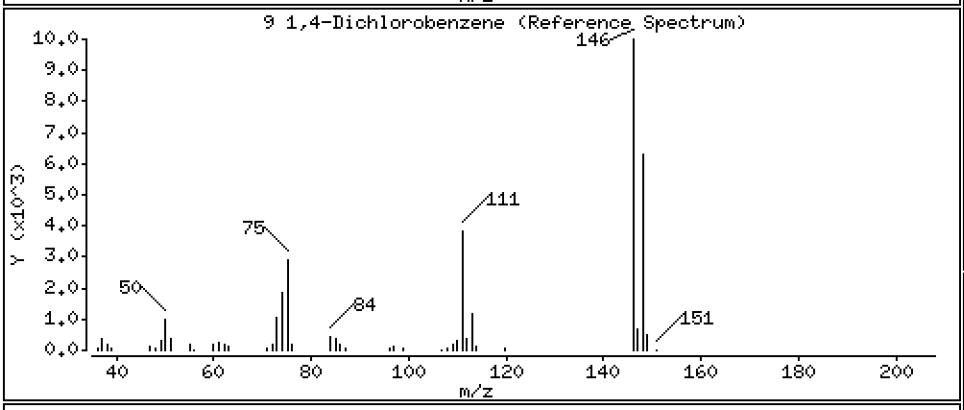
Column diameter: 0.25

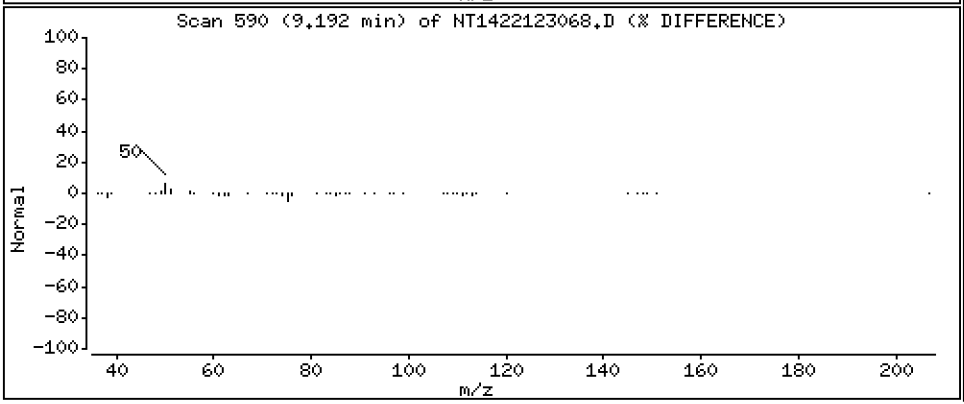
9 1,4-Dichlorobenzene

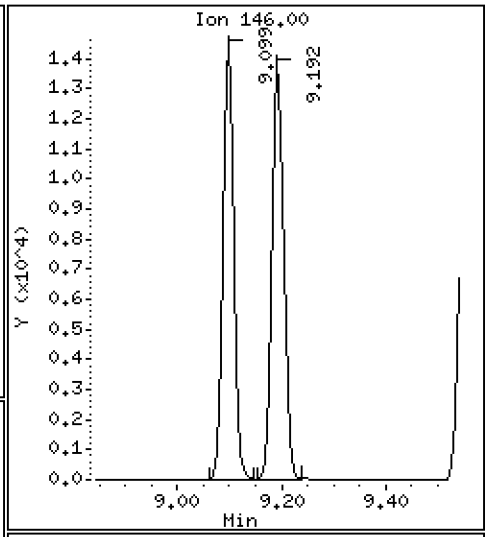
Concentration: 0.5068 ug/mL

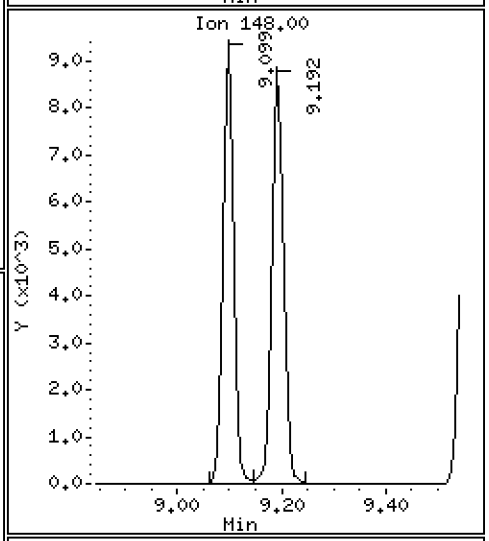


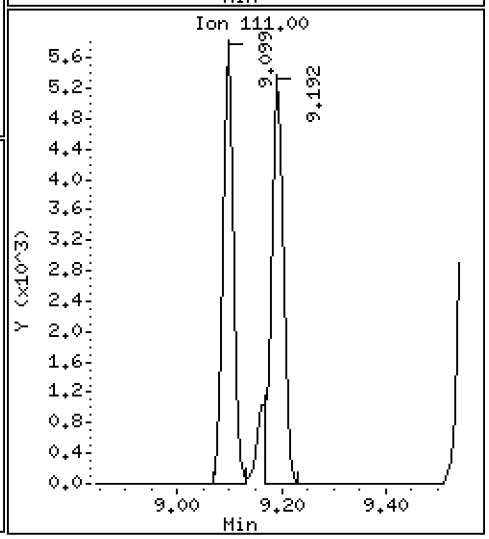












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

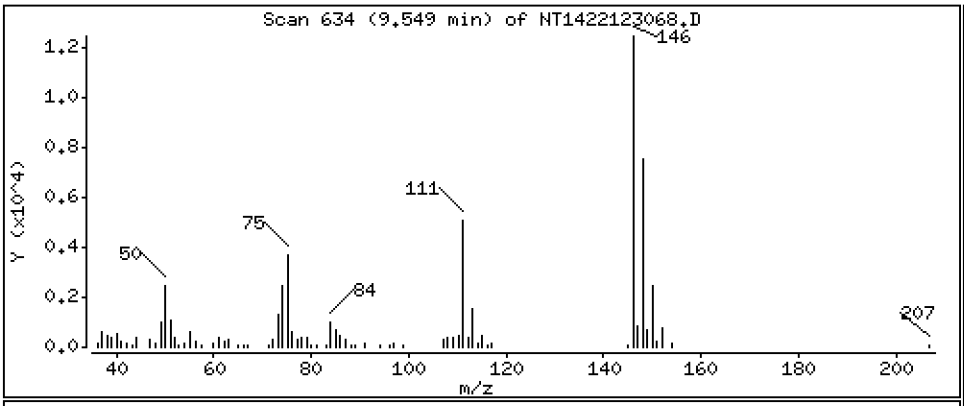
Operator: VTS

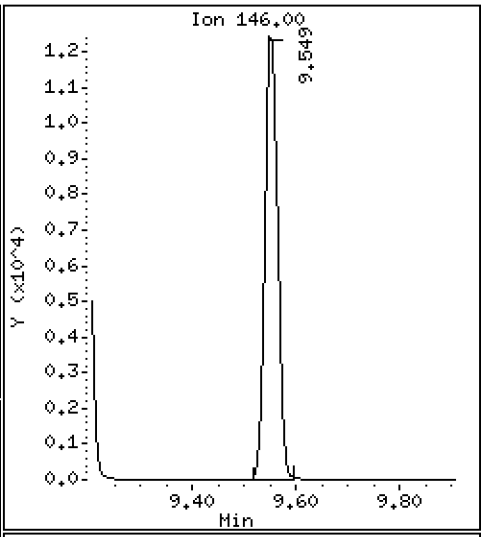
Column phase: ZB-5msi

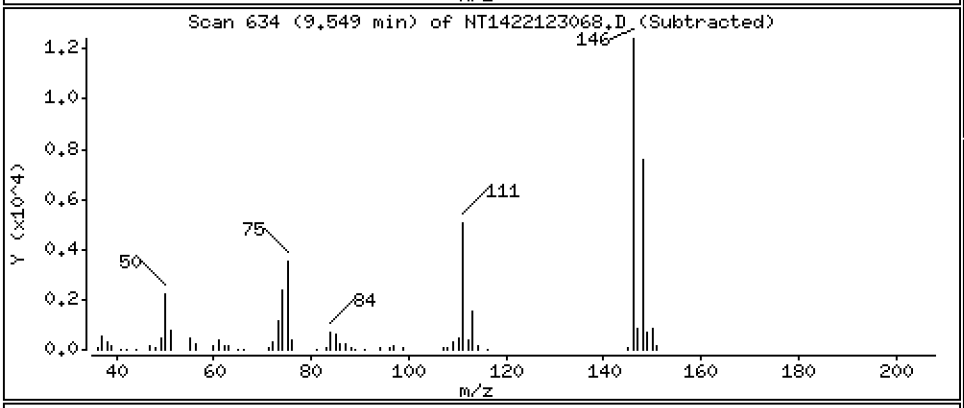
Column diameter: 0.25

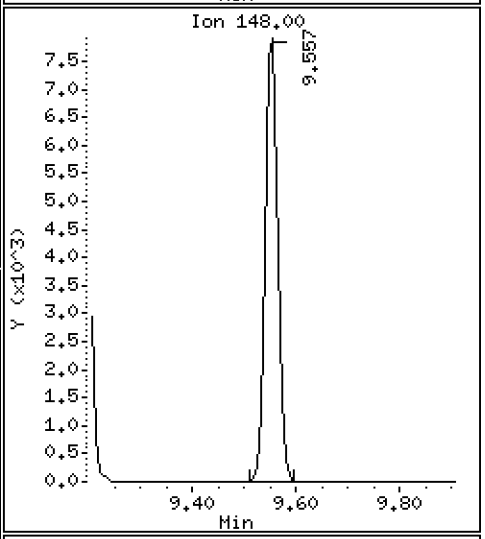
12 1,2-Dichlorobenzene

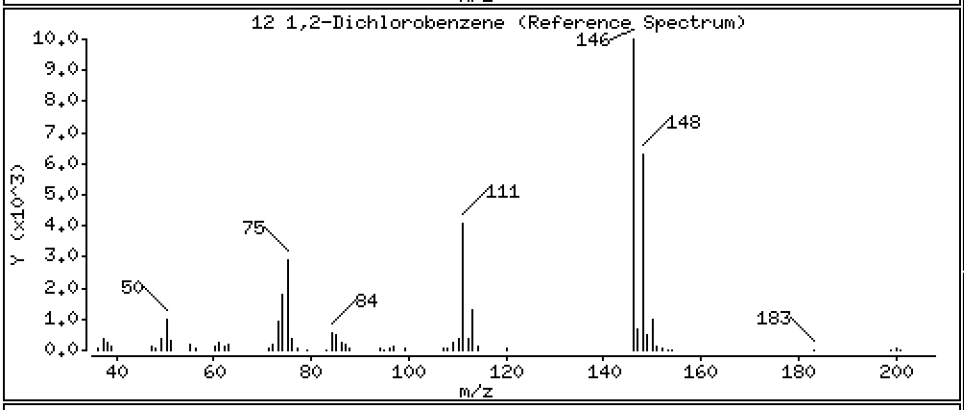
Concentration: 0.4961 ug/mL

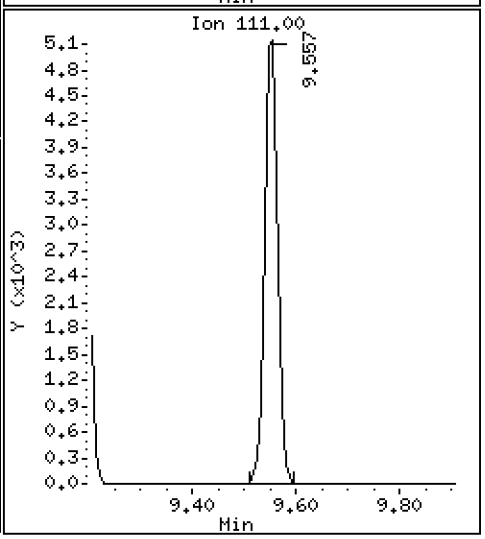


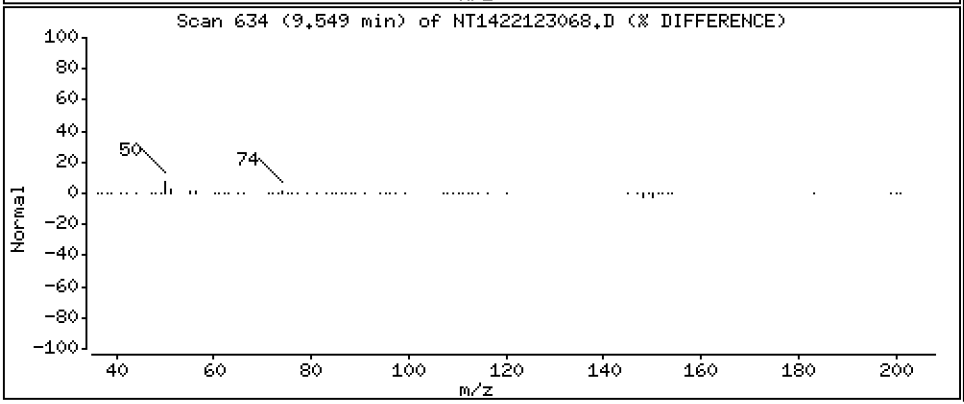












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

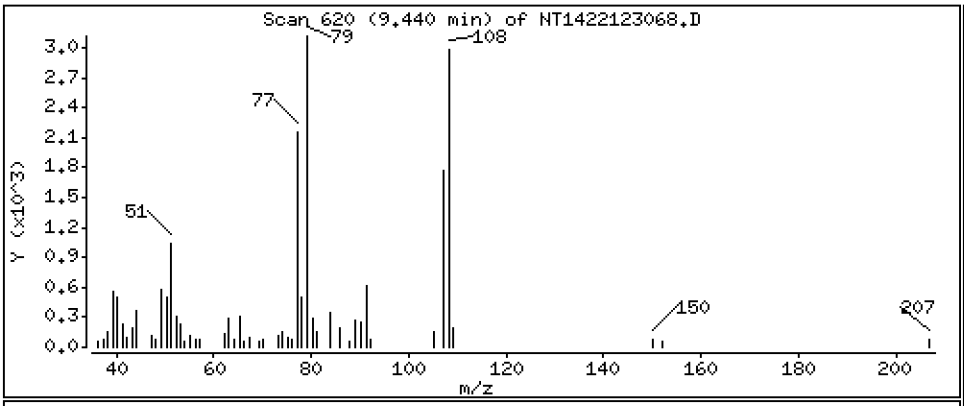
Operator: VTS

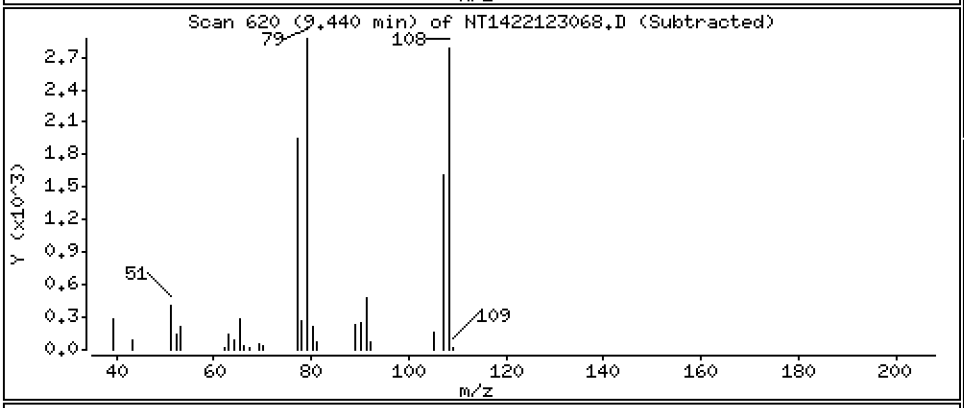
Column phase: ZB-5msi

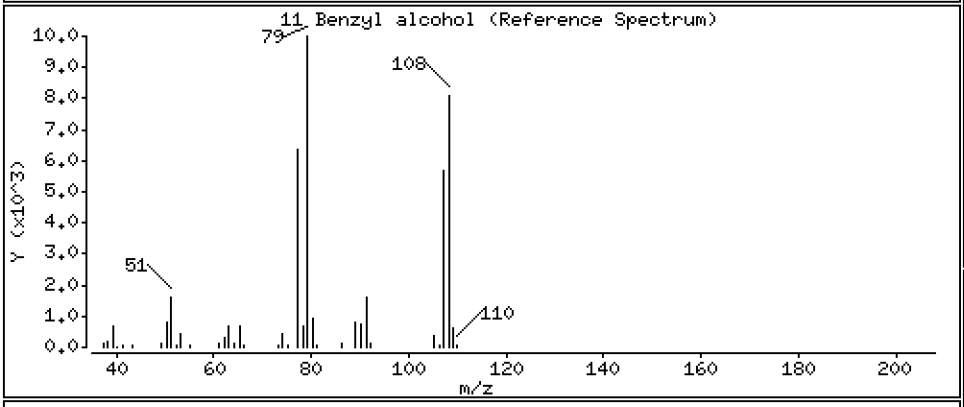
Column diameter: 0.25

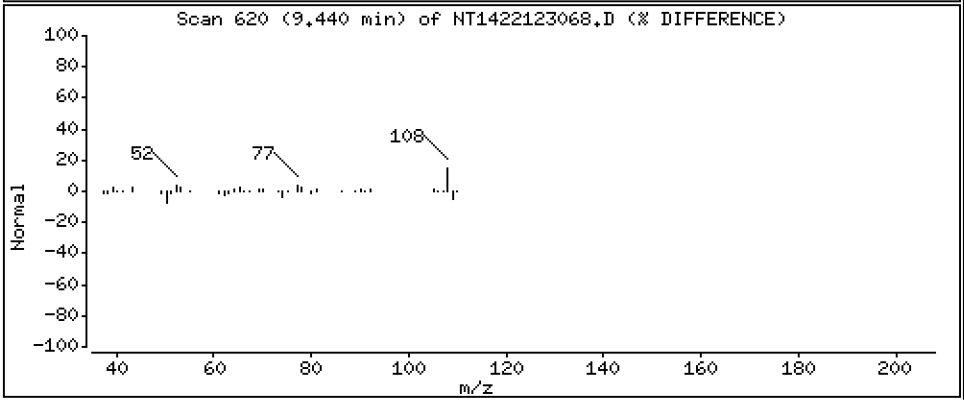
11 Benzyl alcohol

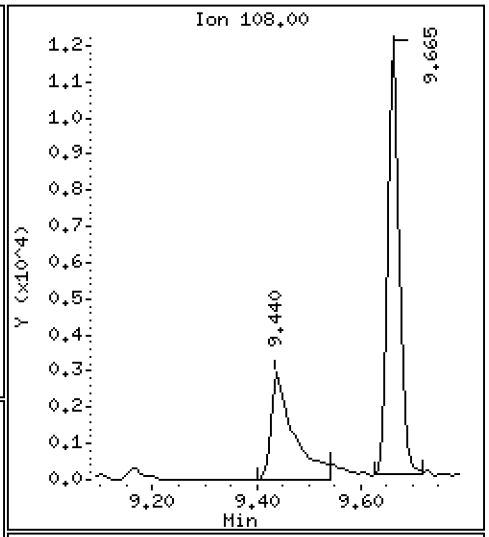
Concentration: 0.3869 ug/mL

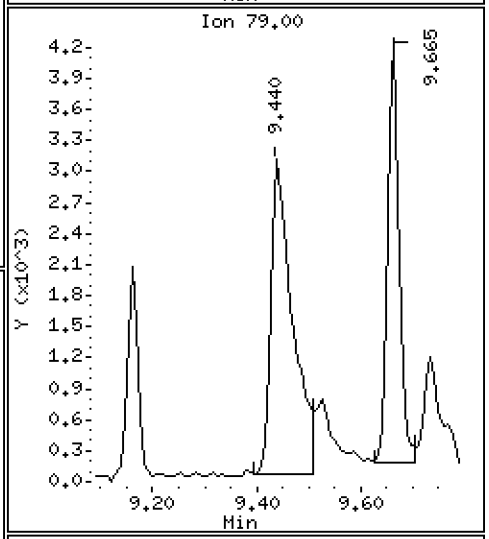


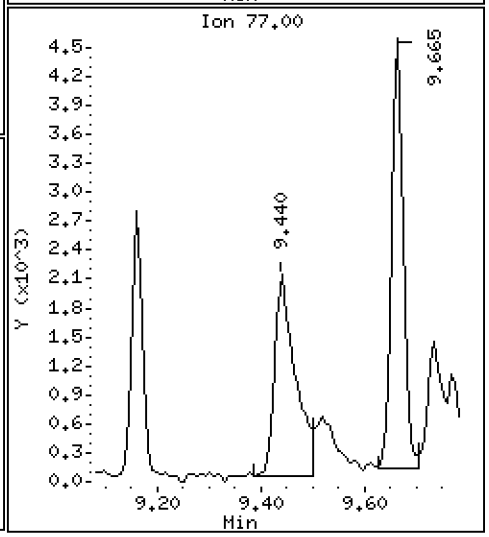












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

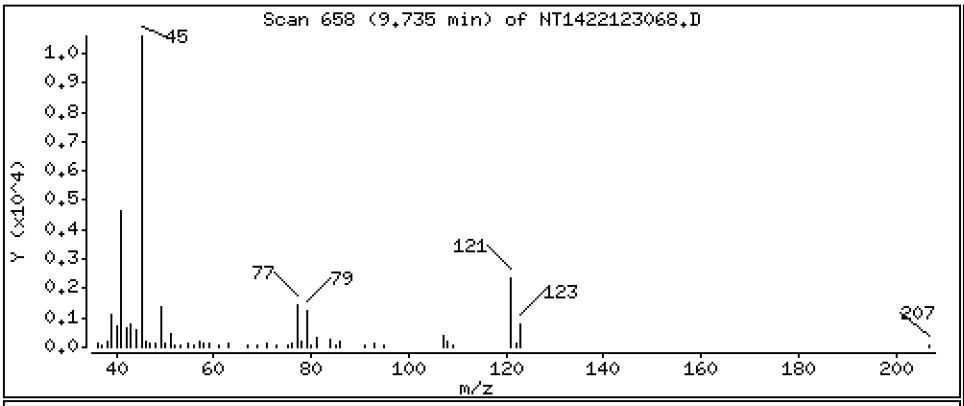
Operator: VTS

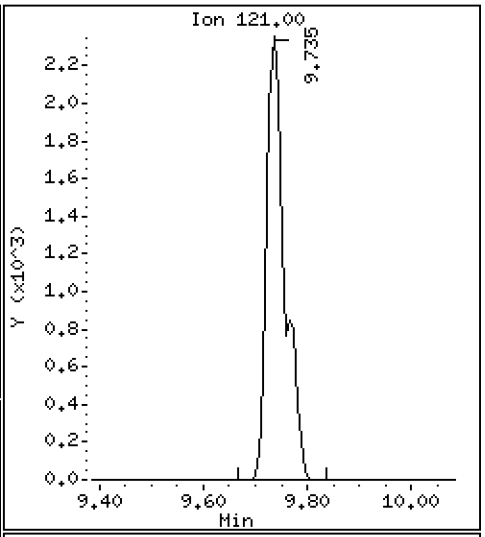
Column phase: ZB-5msi

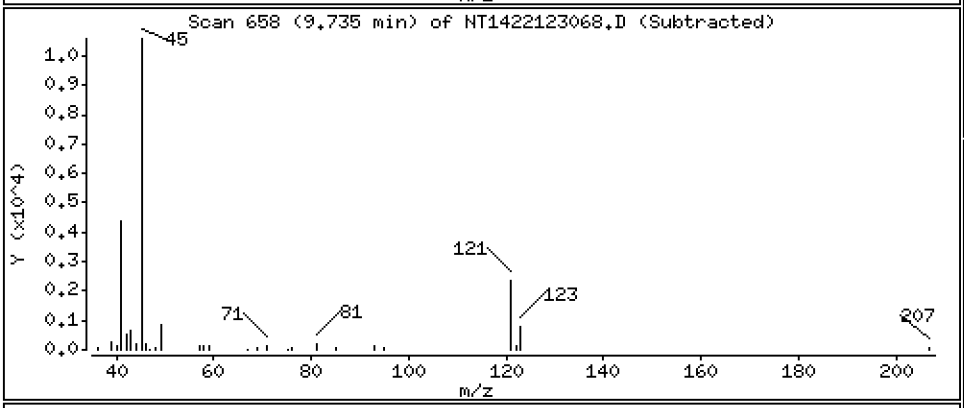
Column diameter: 0.25

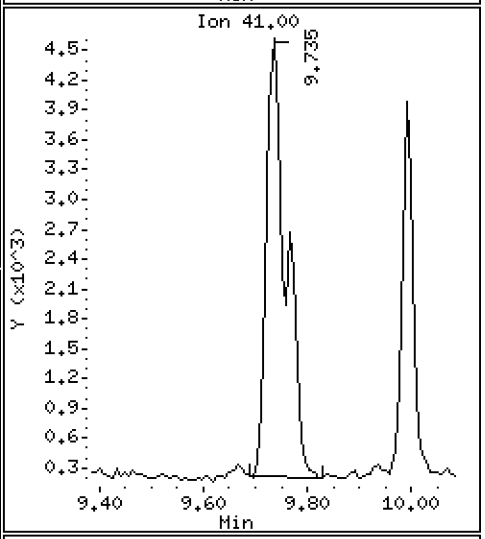
14 2,2'-oxybis(1-Chloropropane)

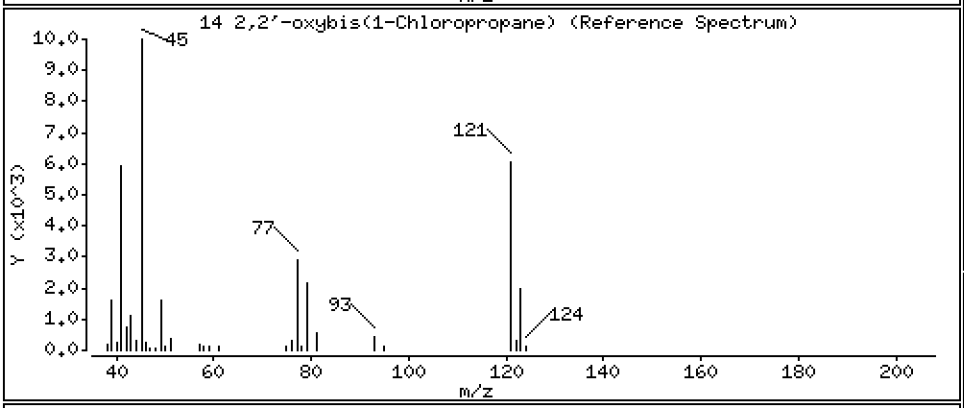
Concentration: 0.4728 ug/mL

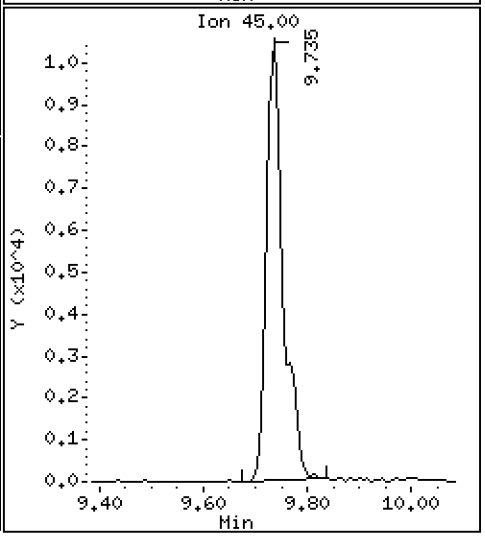


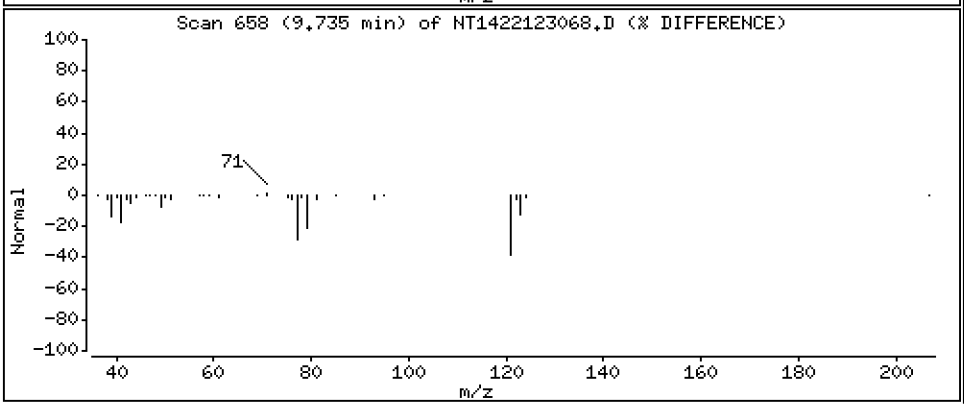












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

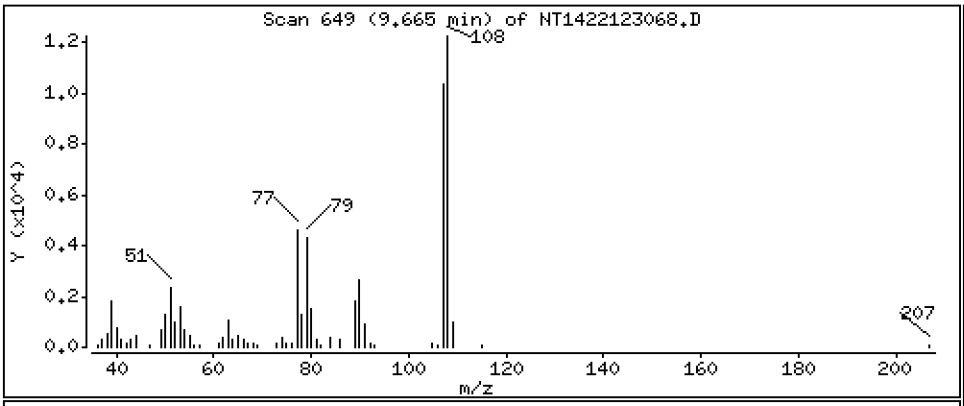
Operator: VTS

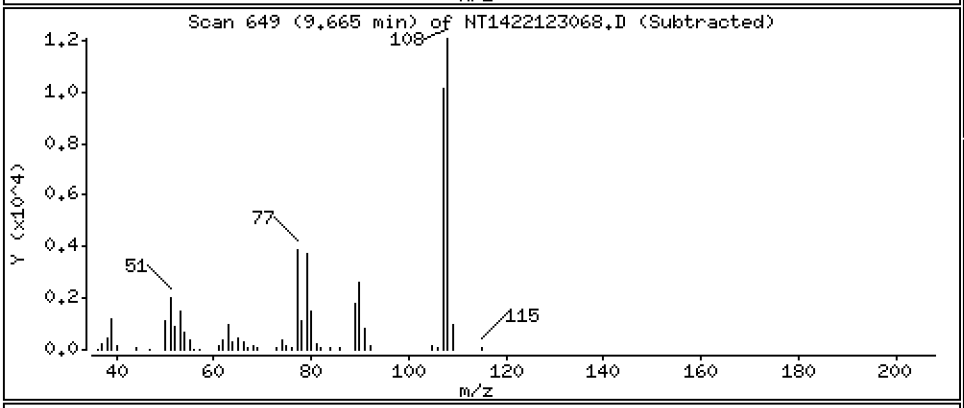
Column phase: ZB-5msi

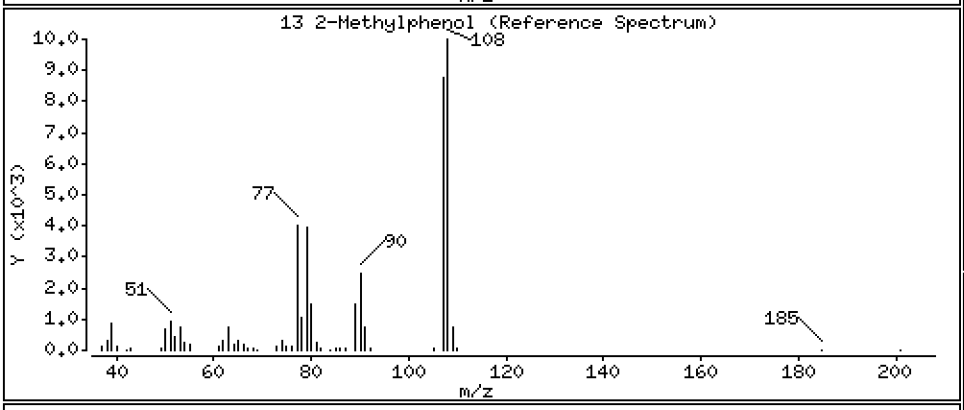
Column diameter: 0.25

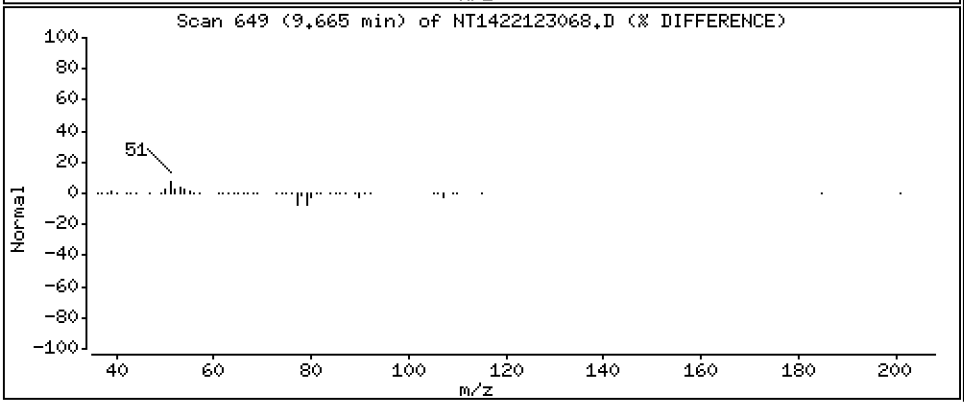
13 2-Methylphenol

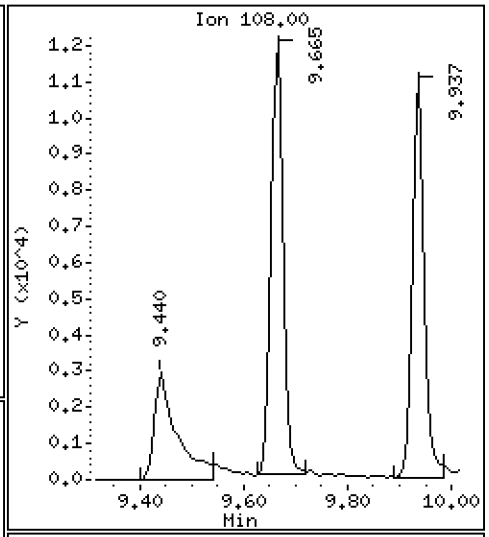
Concentration: 0.4871 ug/mL

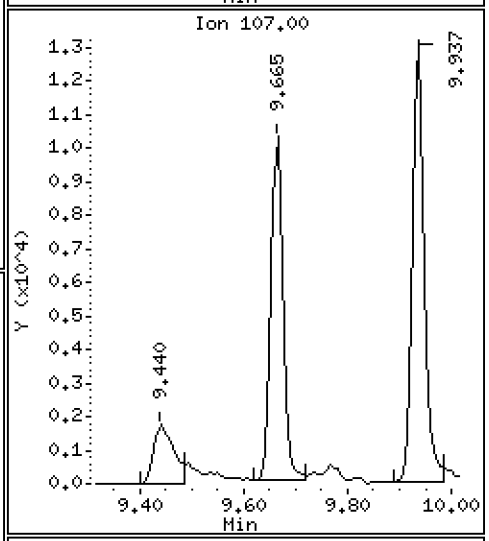


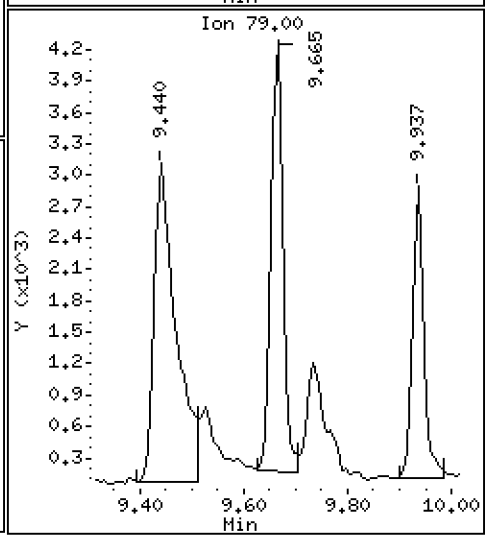












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

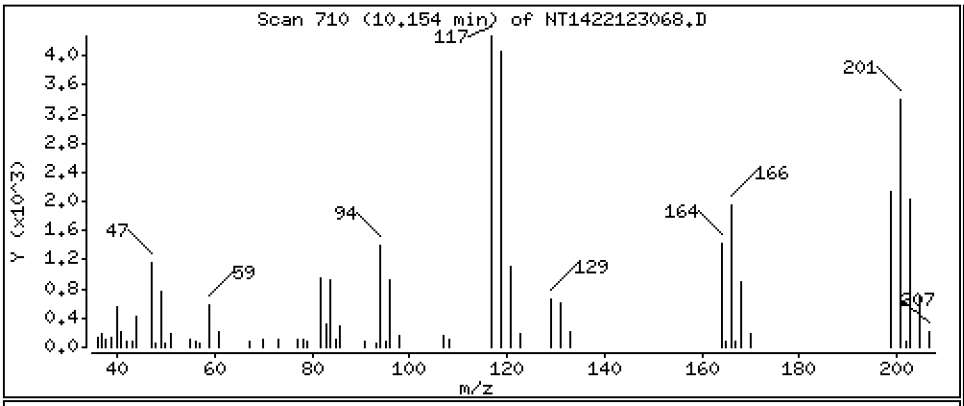
Operator: VTS

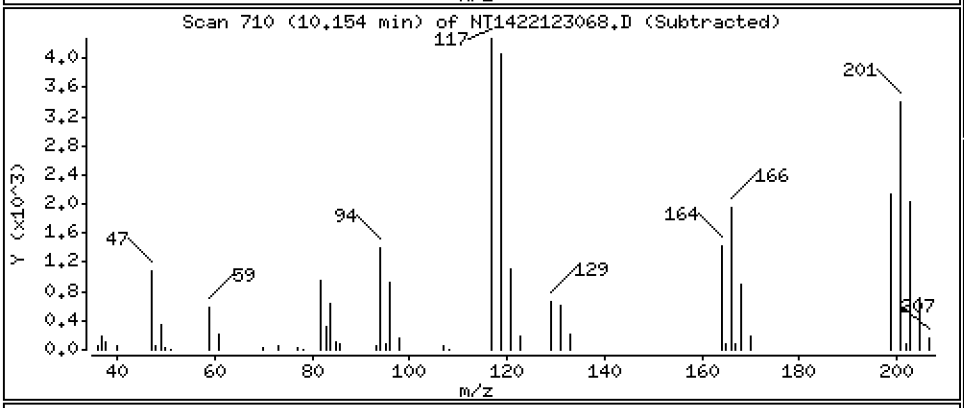
Column phase: ZB-5msi

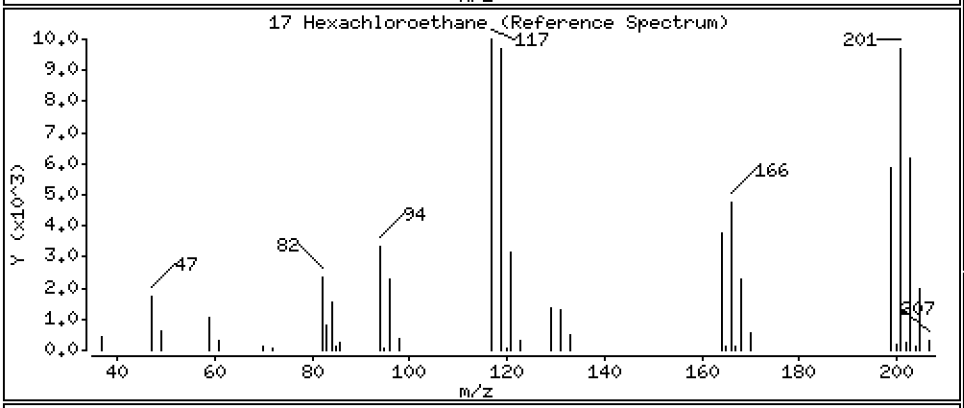
Column diameter: 0.25

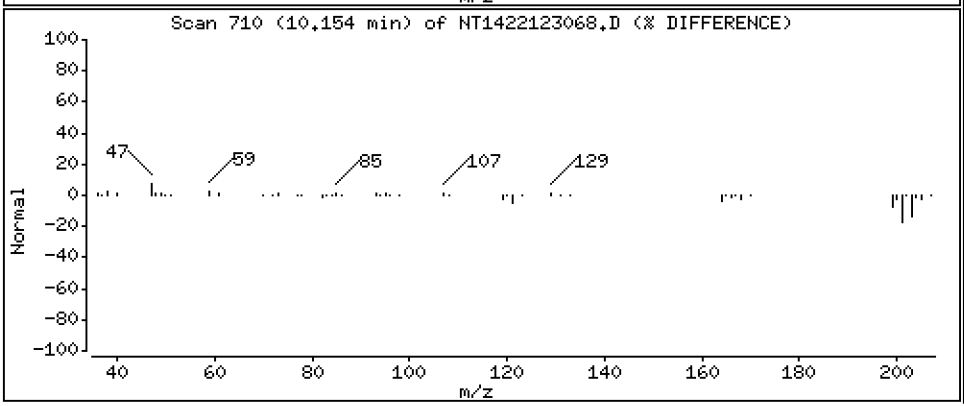
17 Hexachloroethane

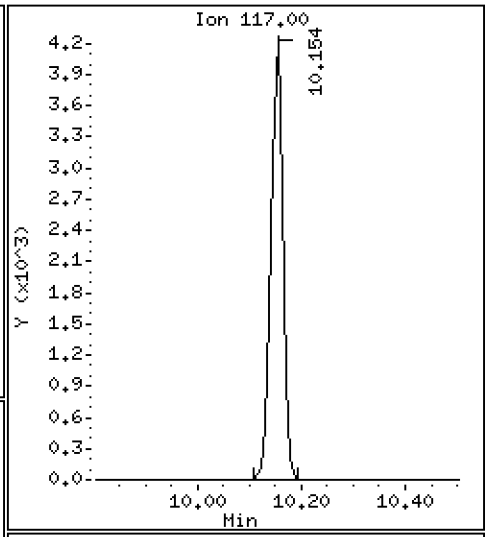
Concentration: 0.4126 ug/mL

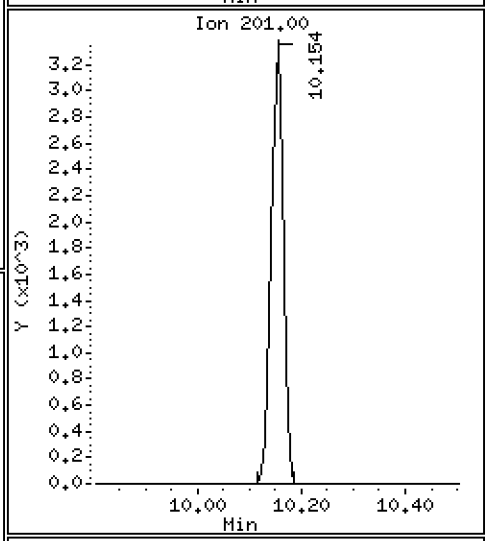


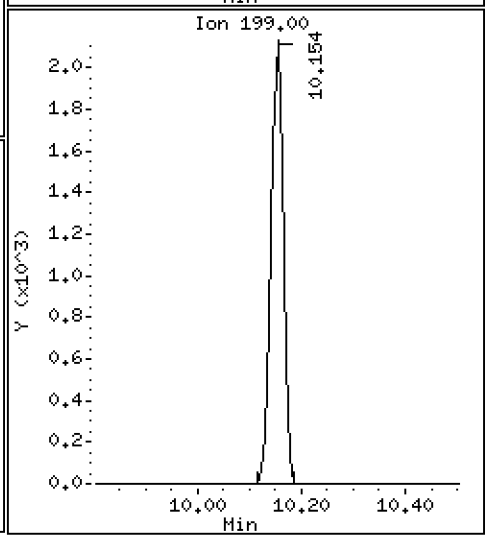












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

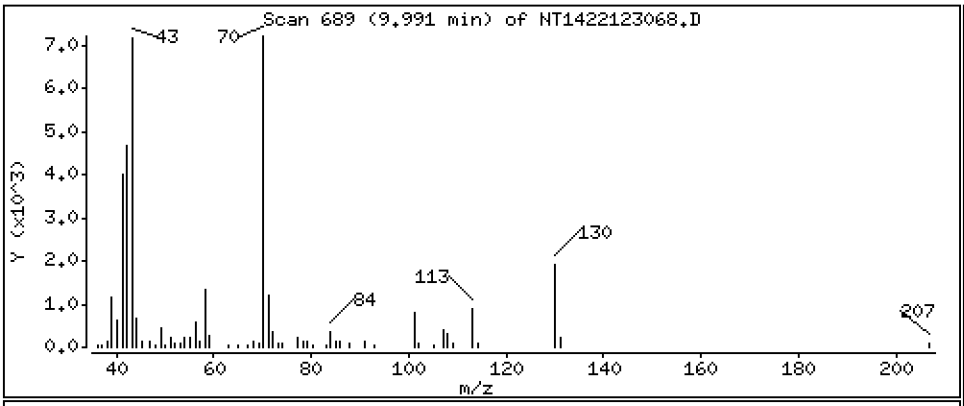
Operator: VTS

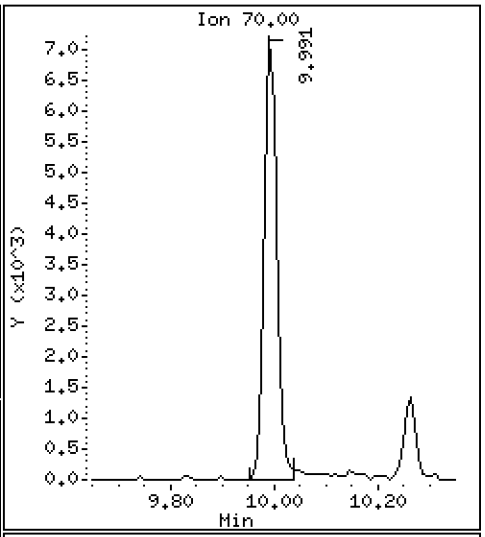
Column phase: ZB-5msi

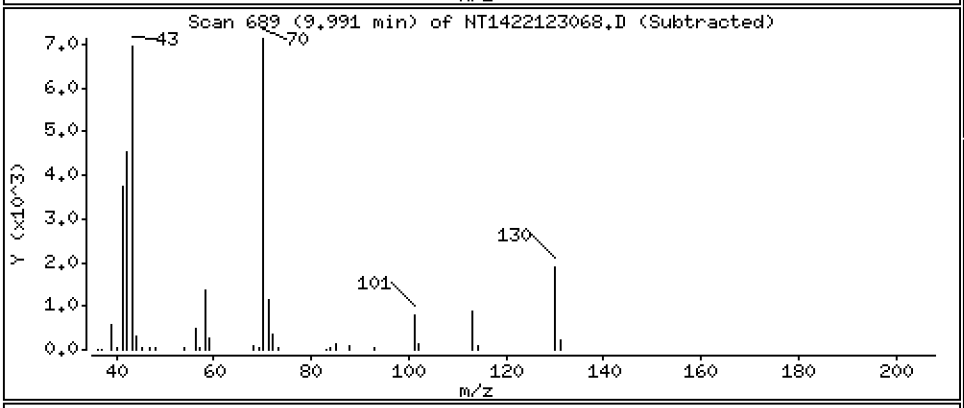
Column diameter: 0.25

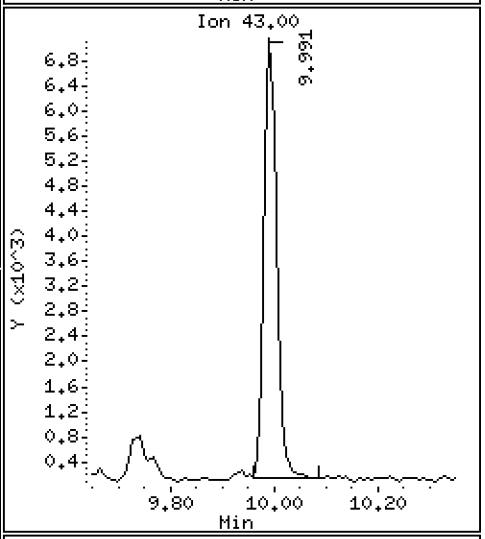
16 N-Nitroso-di-n-propylamine

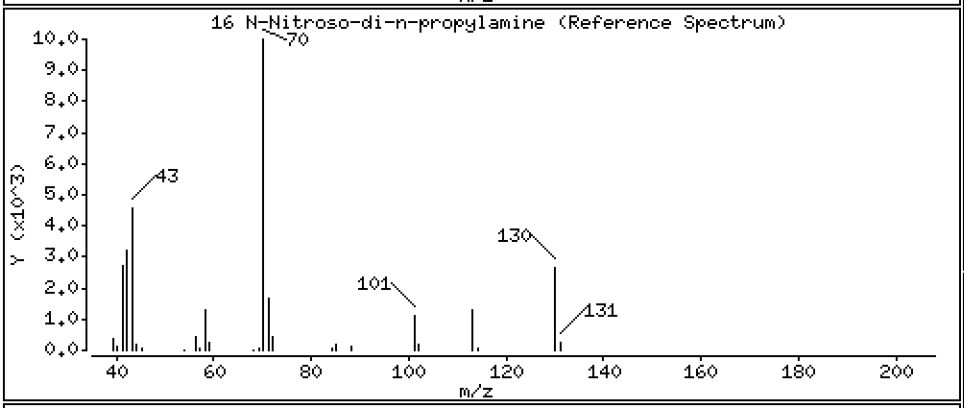
Concentration: 0.5075 ug/mL

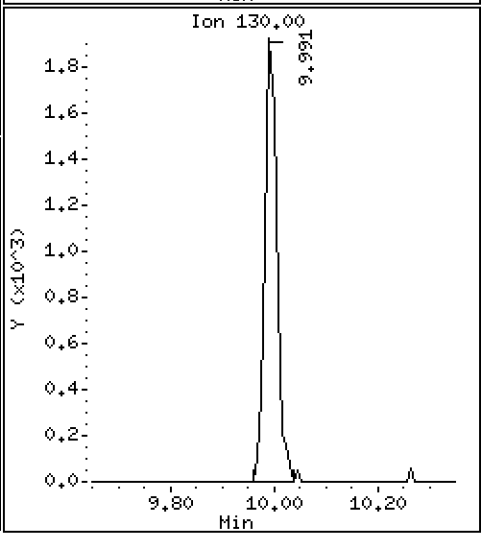


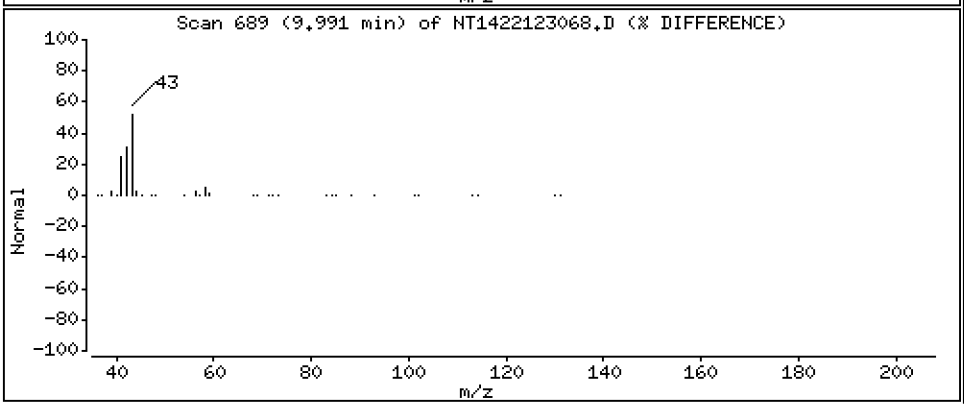












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

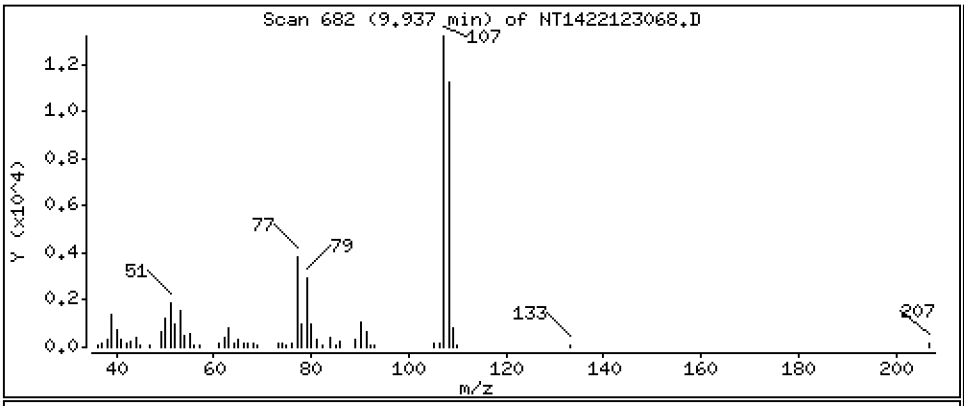
Operator: VTS

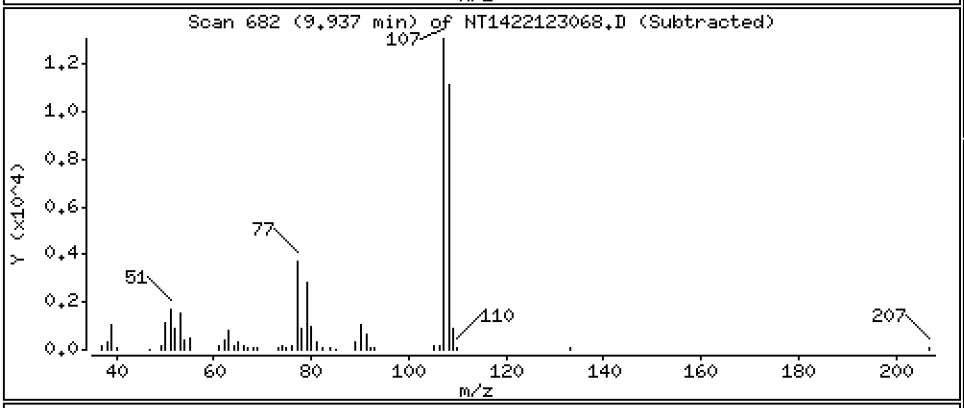
Column phase: ZB-5msi

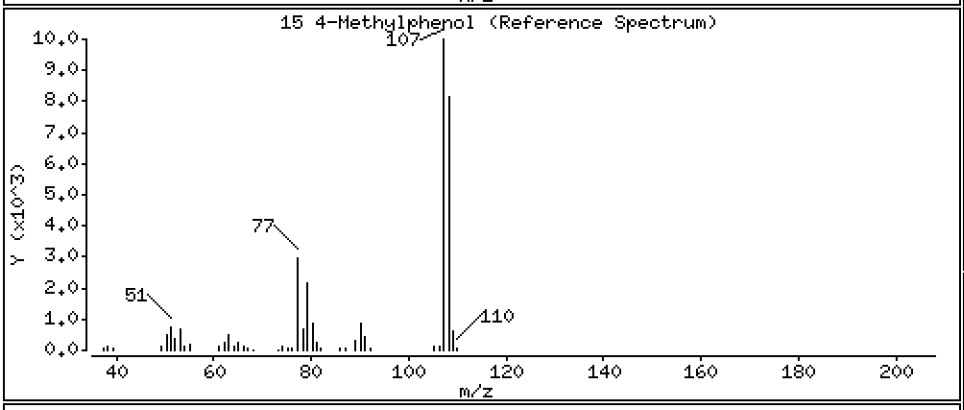
Column diameter: 0.25

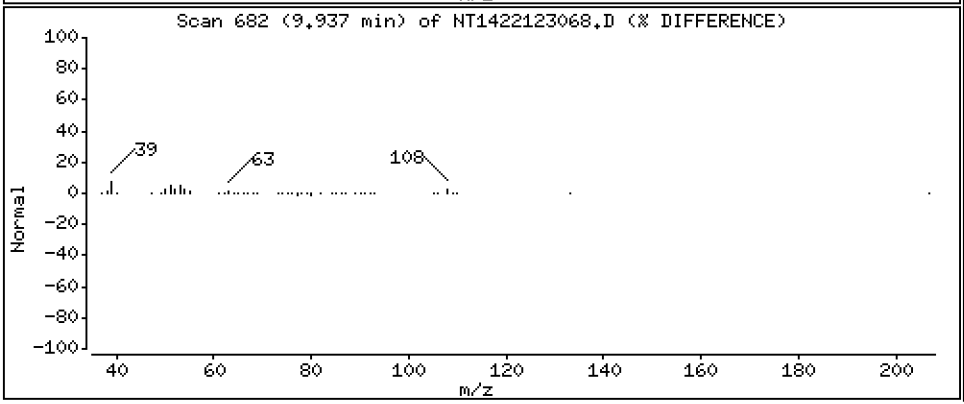
15 4-Methylphenol

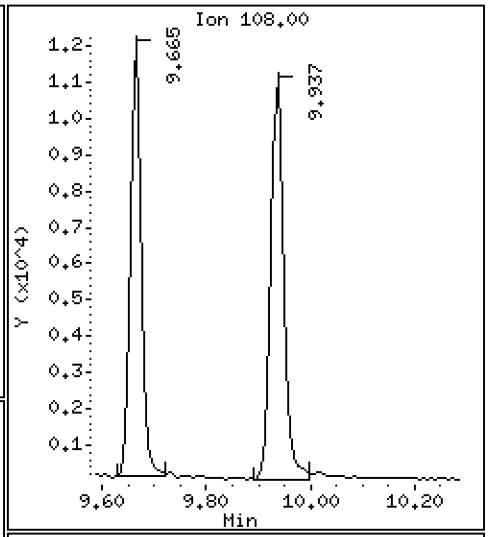
Concentration: 0.4654 ug/mL

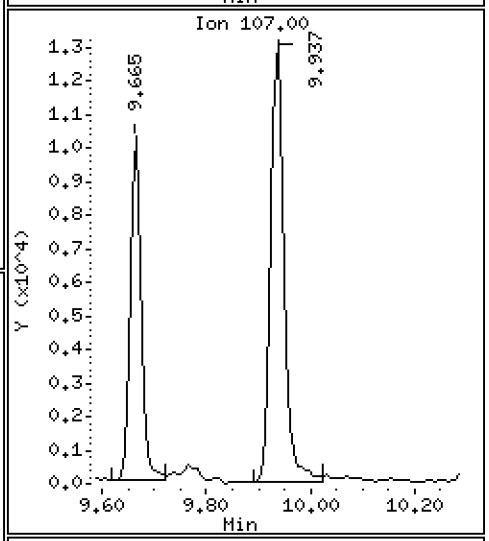


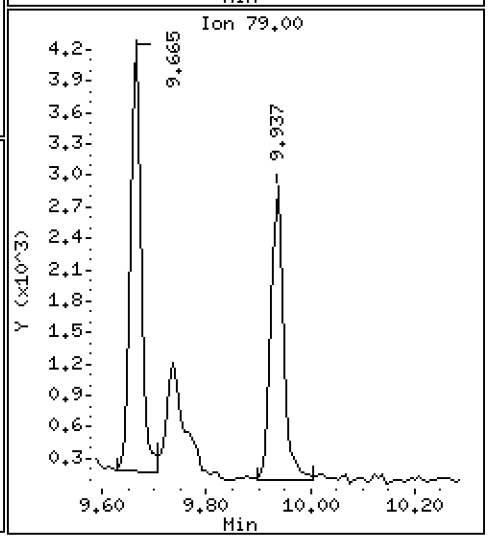












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

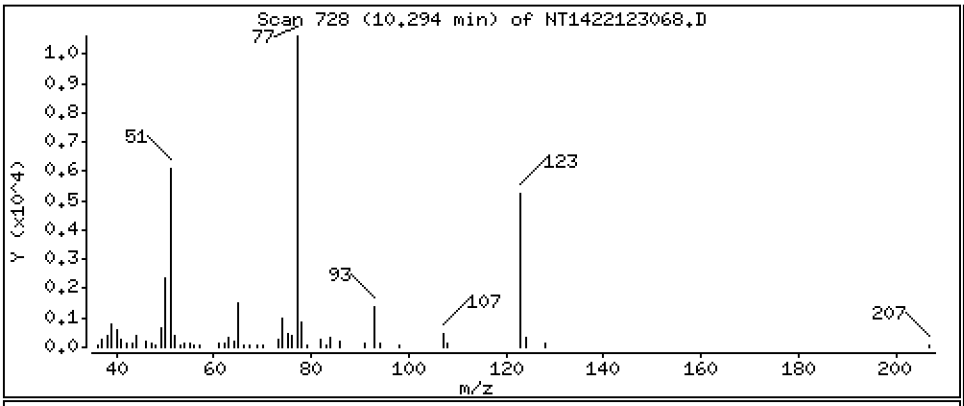
Operator: VTS

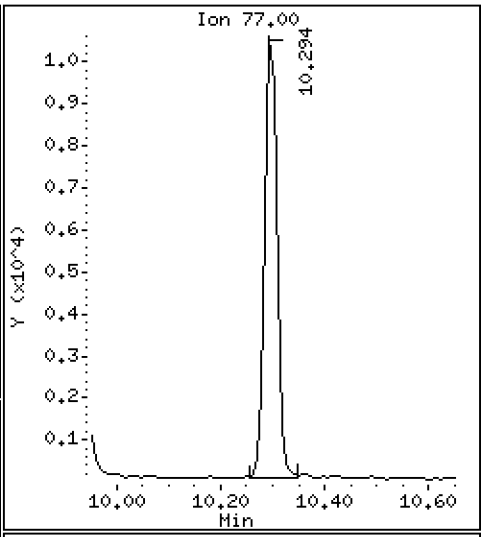
Column phase: ZB-5msi

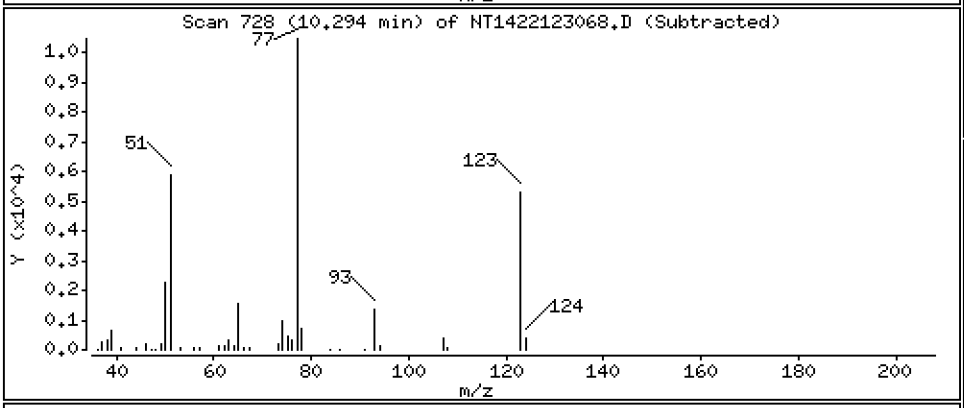
Column diameter: 0.25

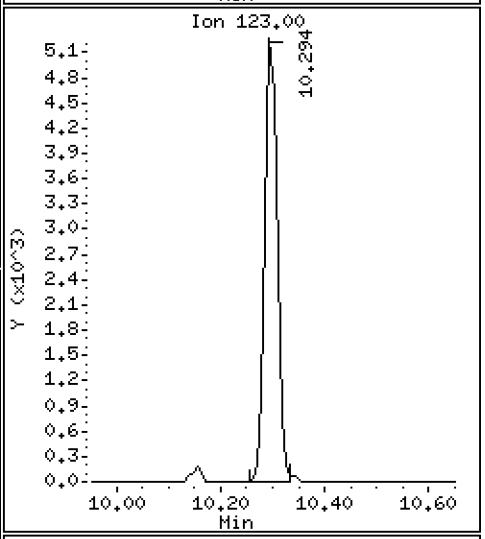
19 Nitrobenzene

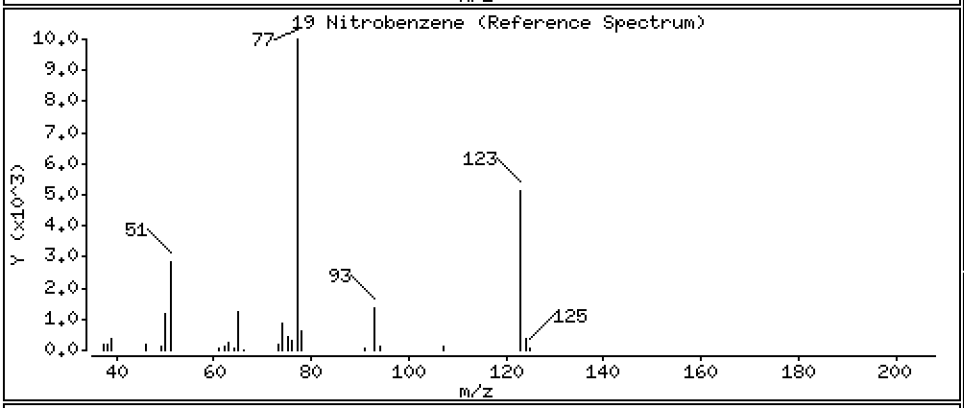
Concentration: 0.4693 ug/mL

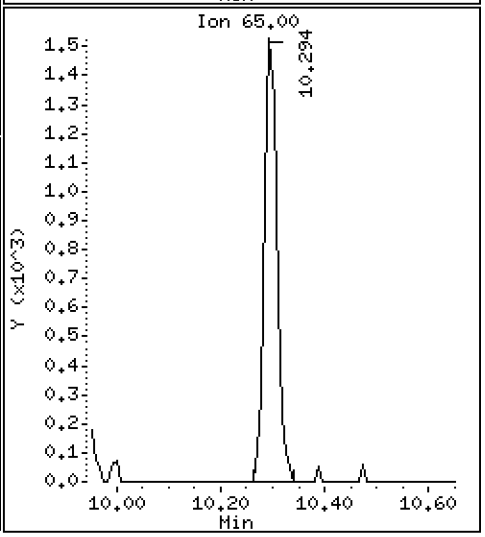


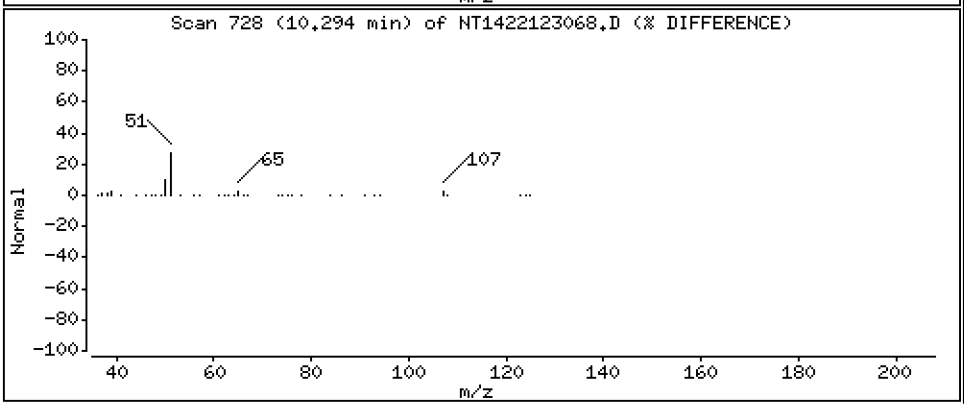












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

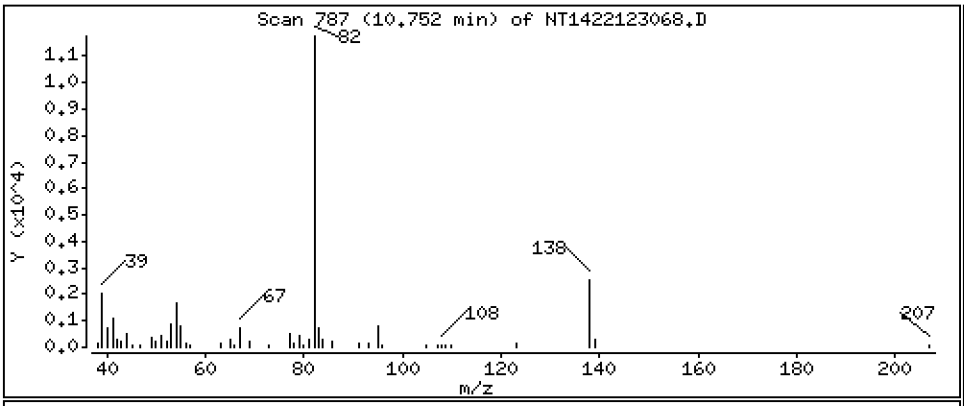
Operator: VTS

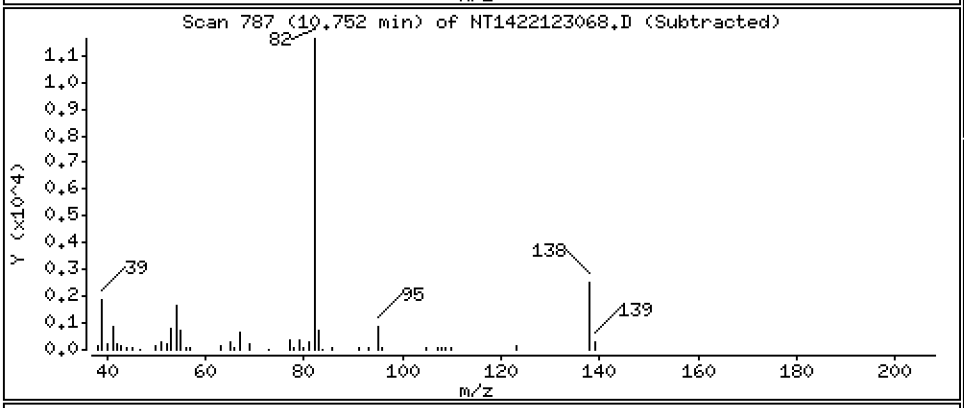
Column phase: ZB-5msi

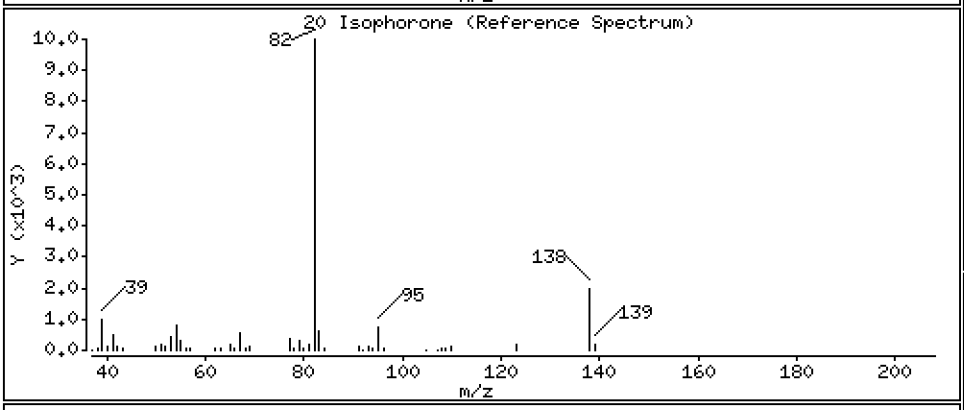
Column diameter: 0.25

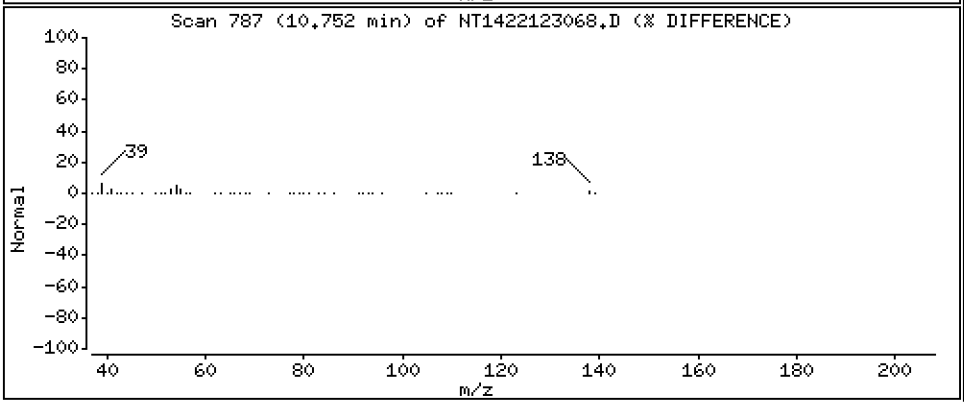
20 Isophorone

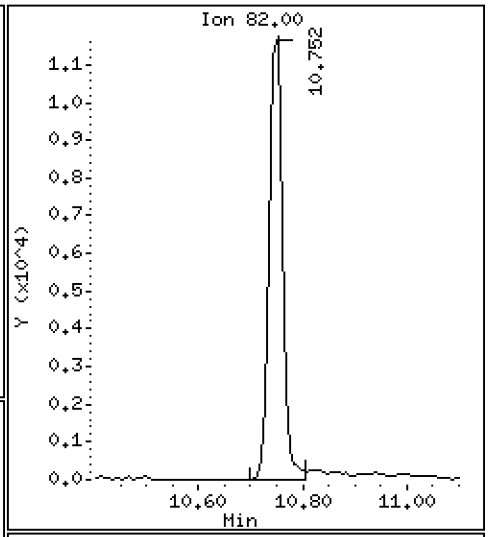
Concentration: 0.4524 ug/mL

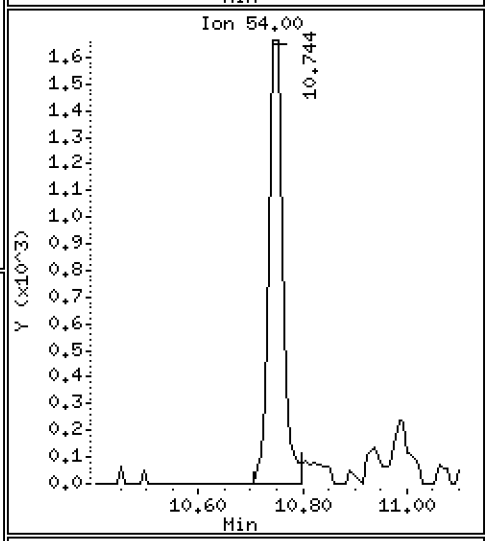


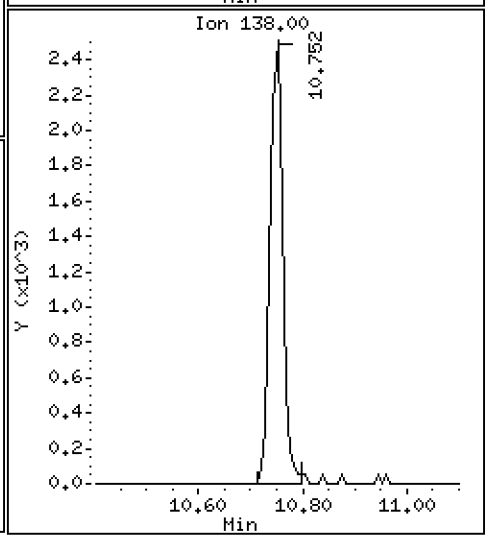












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

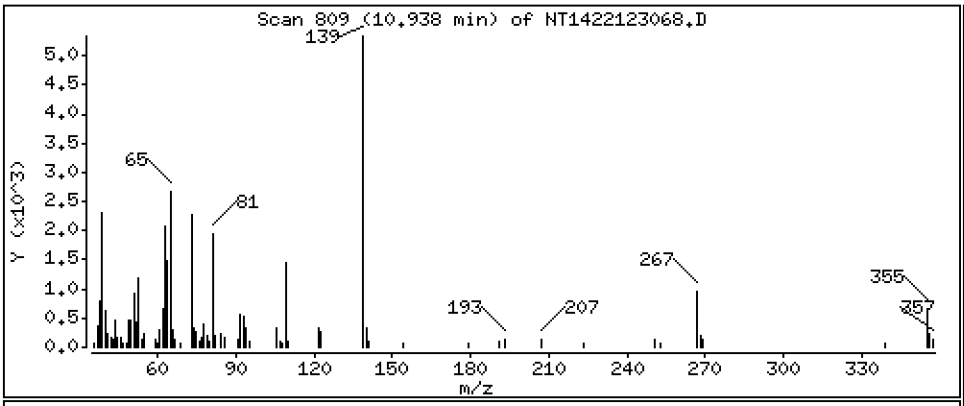
Operator: VTS

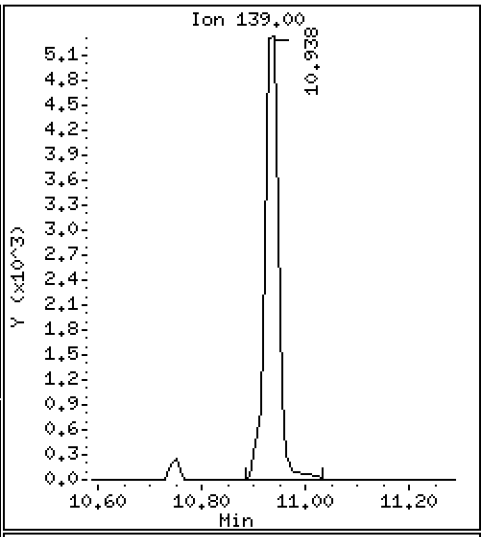
Column phase: ZB-5msi

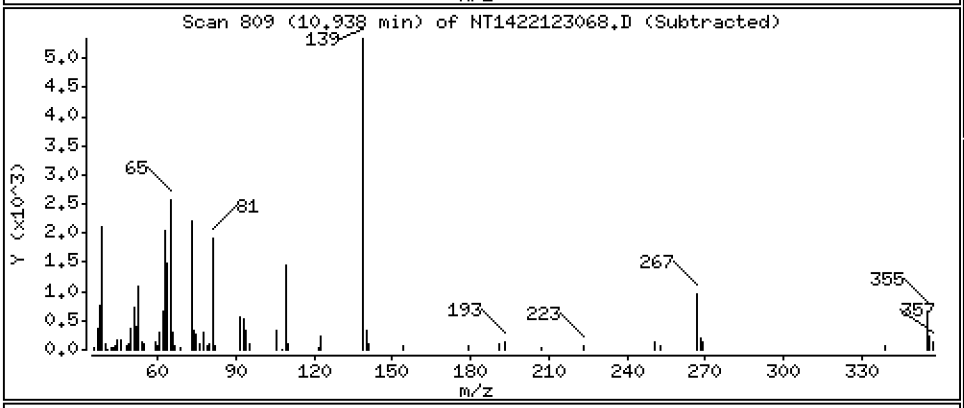
Column diameter: 0.25

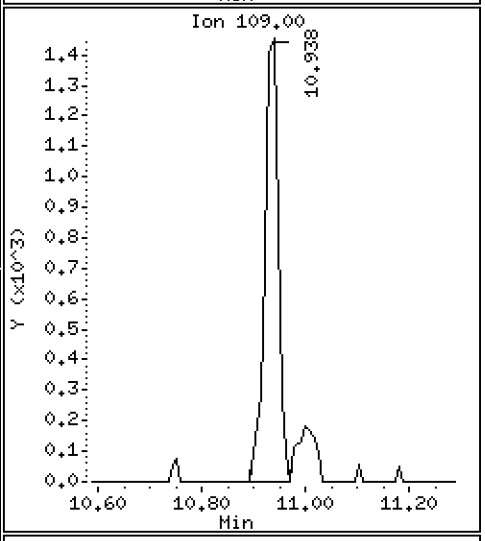
21 2-Nitrophenol

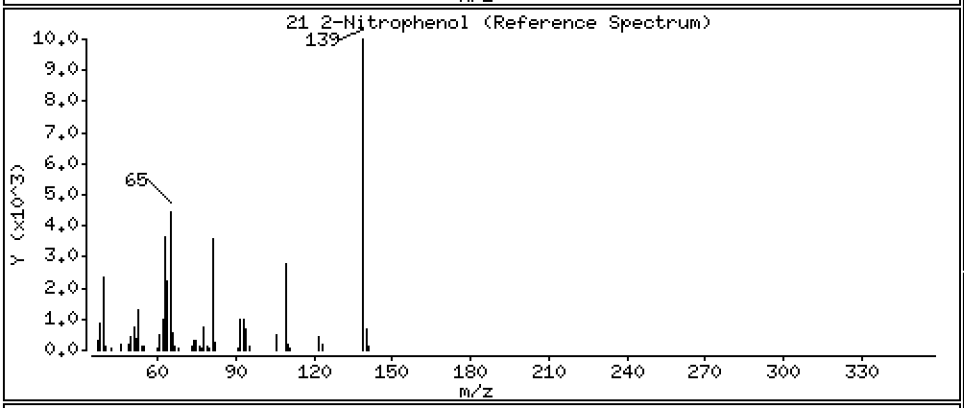
Concentration: 0.4732 ug/mL

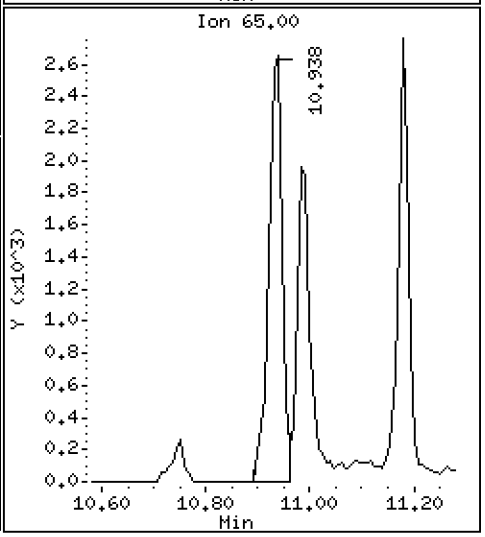


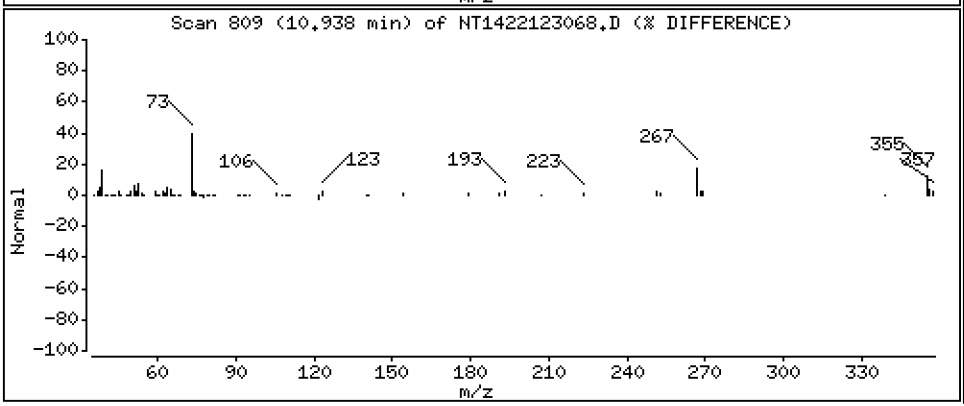












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

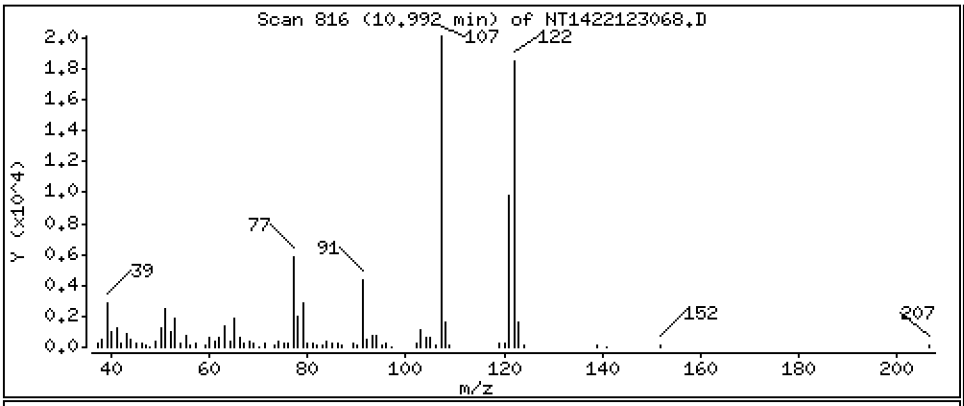
Operator: VTS

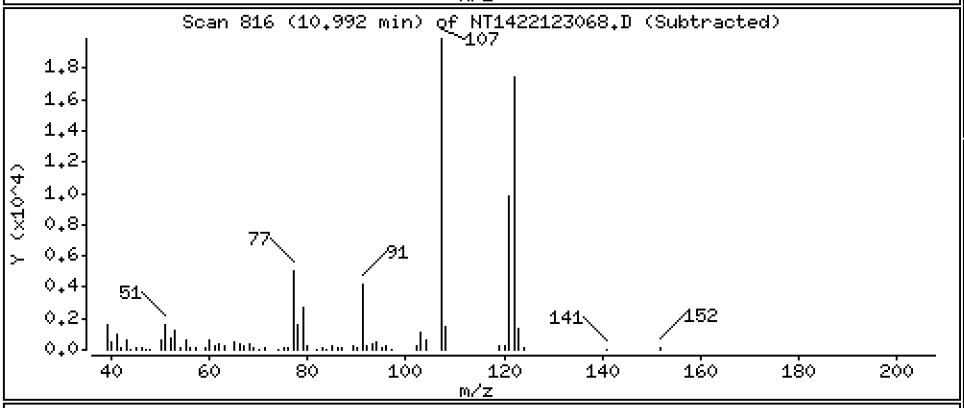
Column phase: ZB-5msi

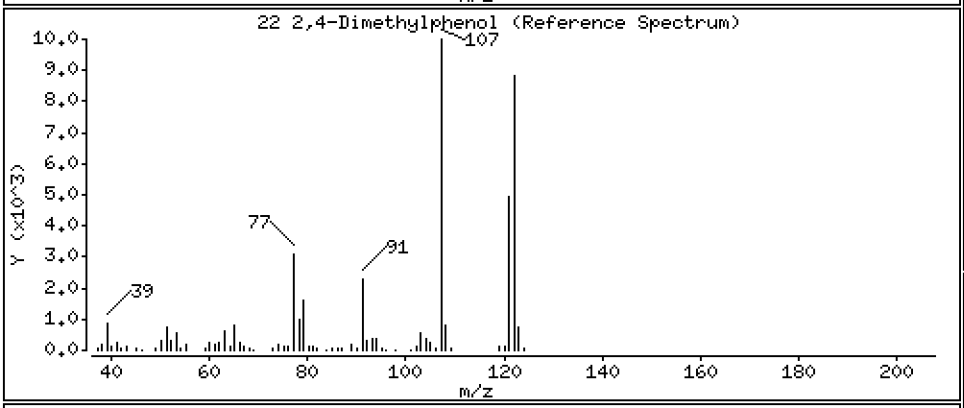
Column diameter: 0.25

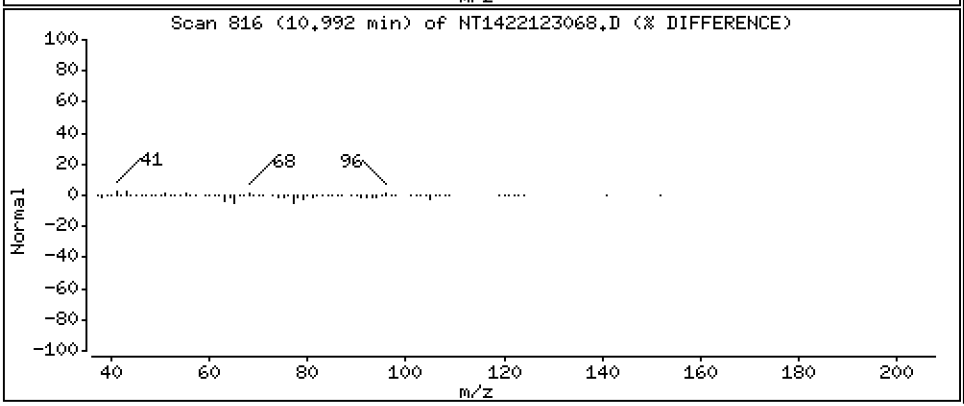
22 2,4-Dimethylphenol

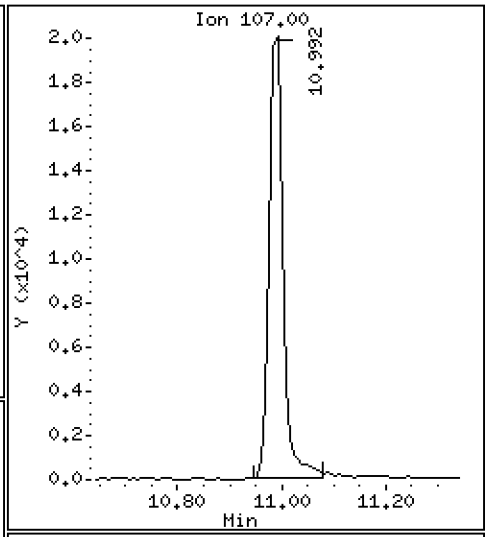
Concentration: 0.9769 ug/mL

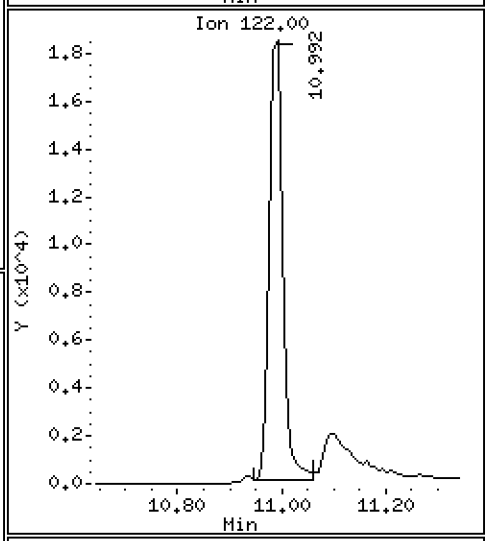


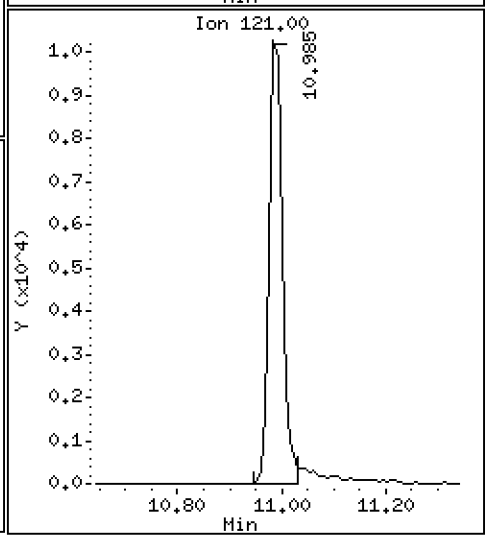












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

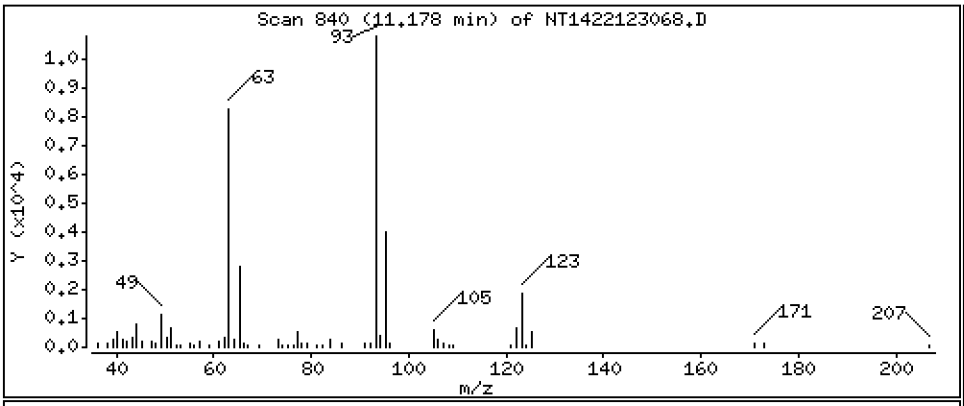
Operator: VTS

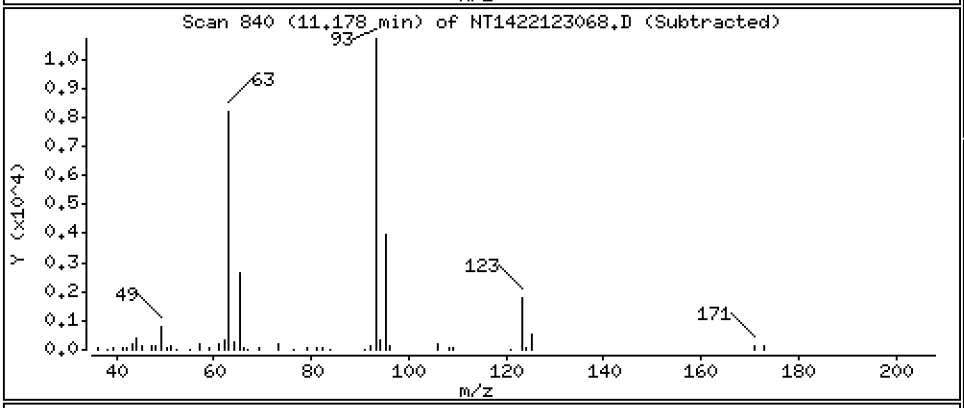
Column phase: ZB-5msi

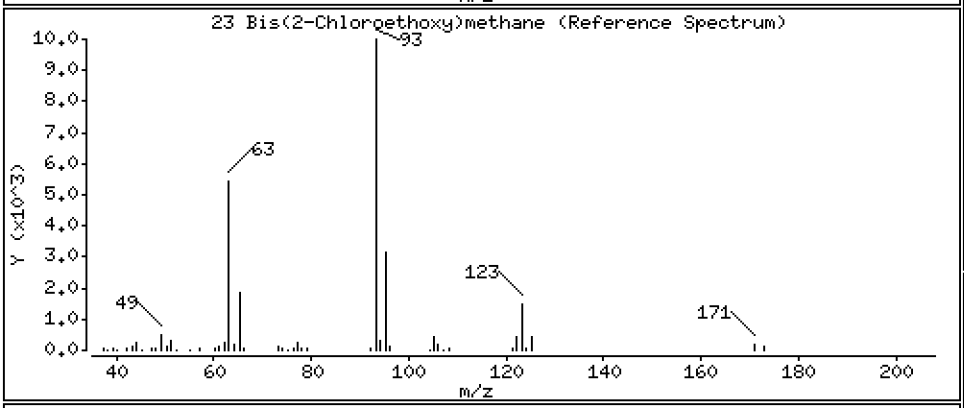
Column diameter: 0.25

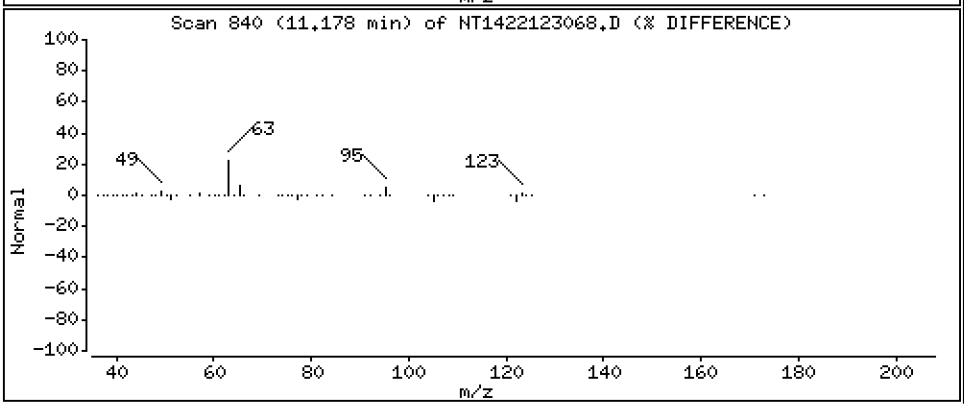
23 Bis(2-Chloroethoxy)methane

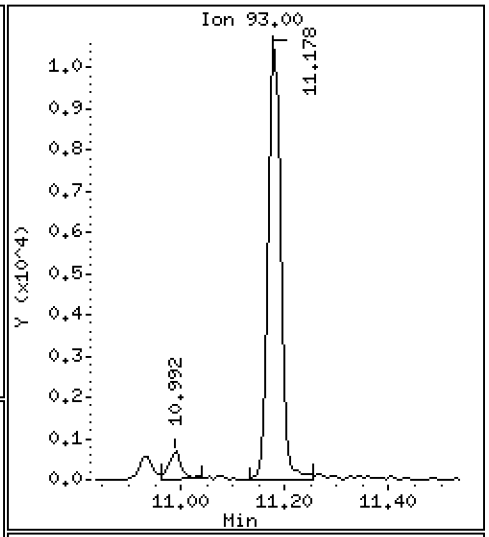
Concentration: 0.4949 ug/mL

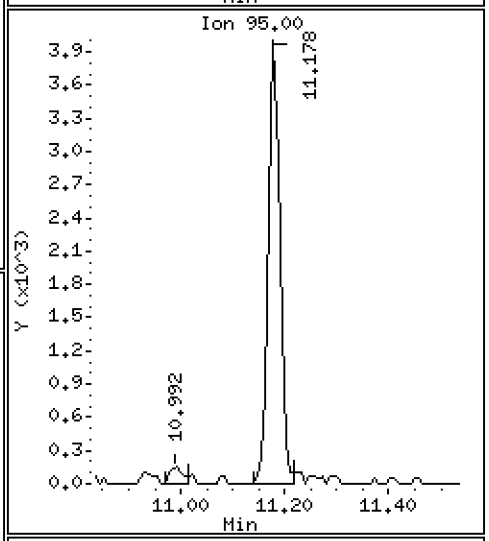


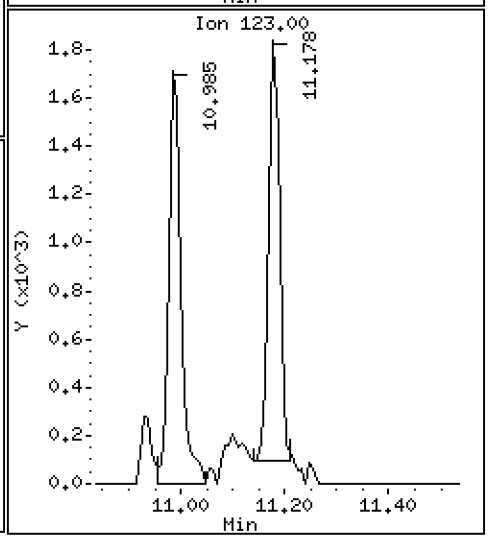












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

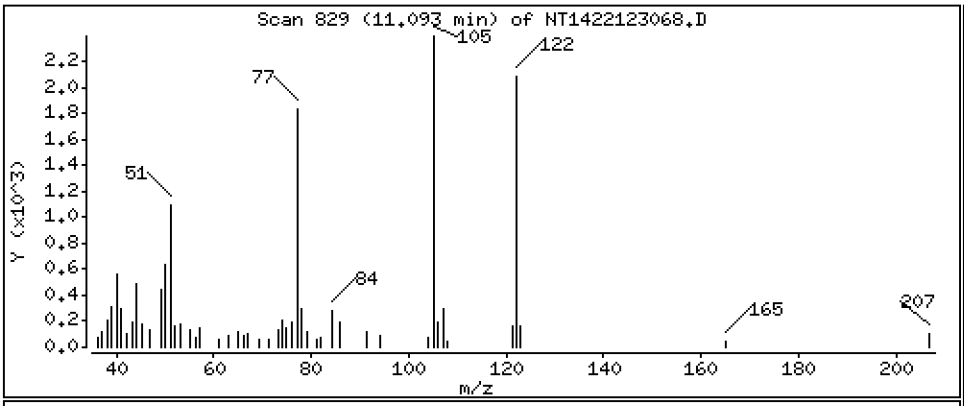
Operator: VTS

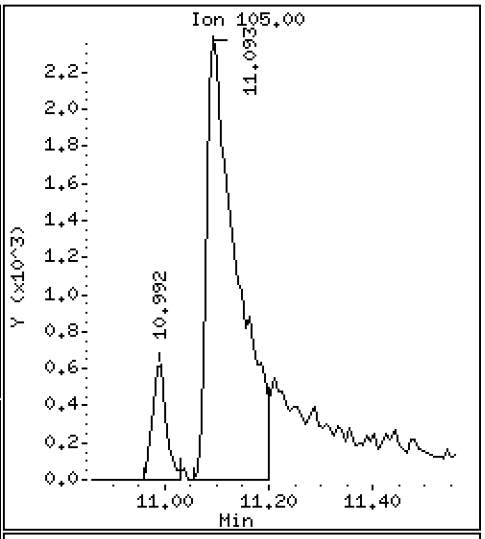
Column phase: ZB-5msi

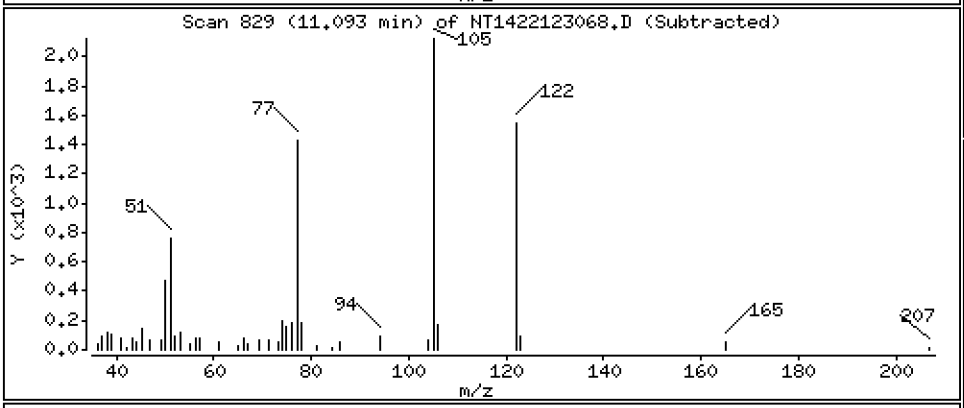
Column diameter: 0.25

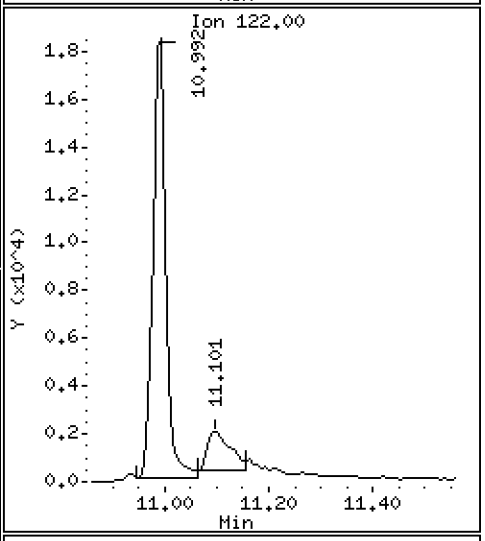
24 Benzoic acid

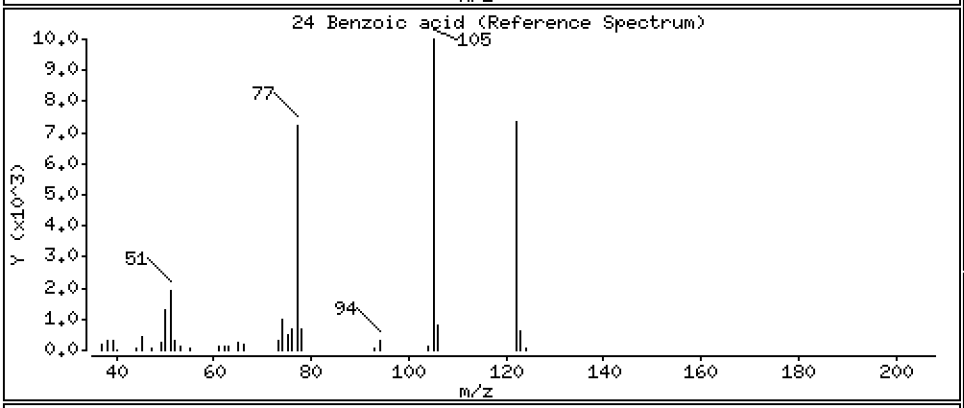
Concentration: 0.4477 ug/mL

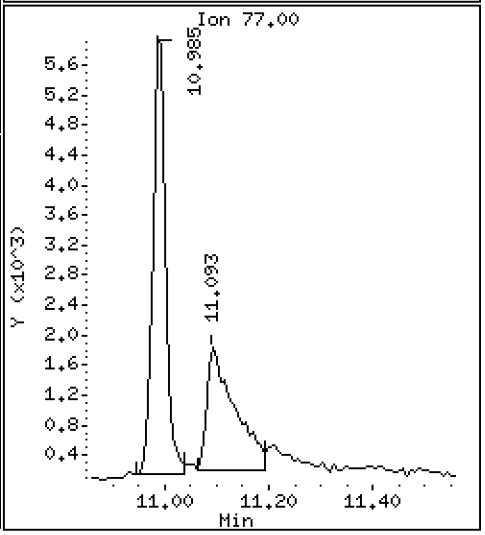


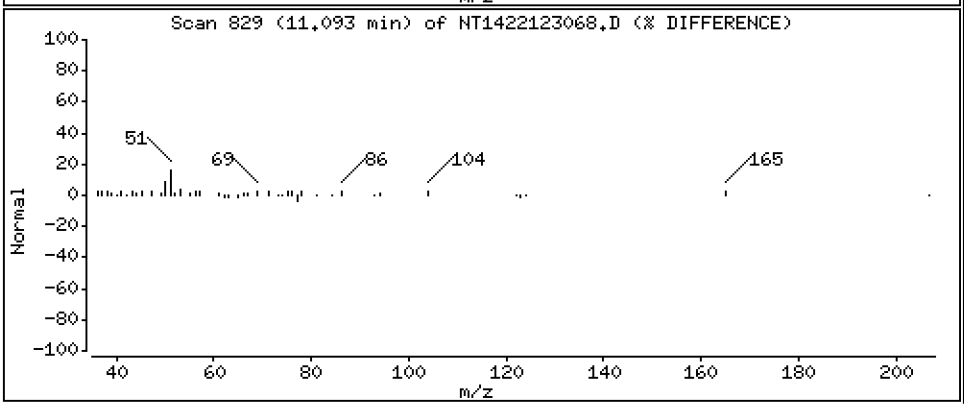












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

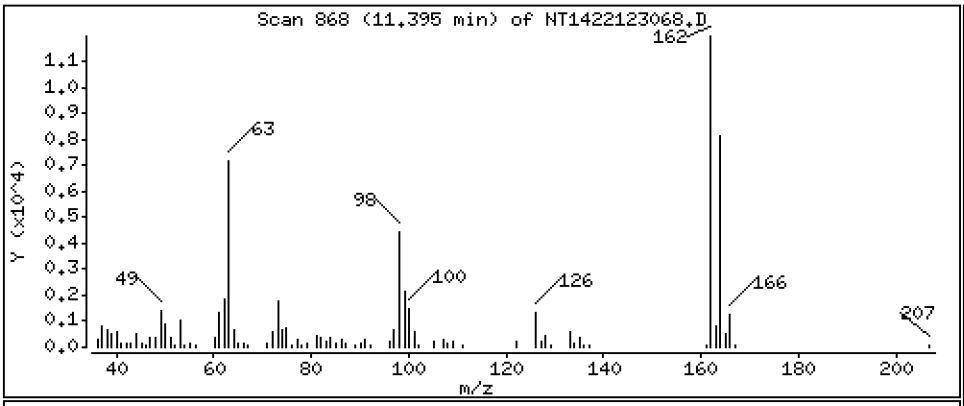
Operator: VTS

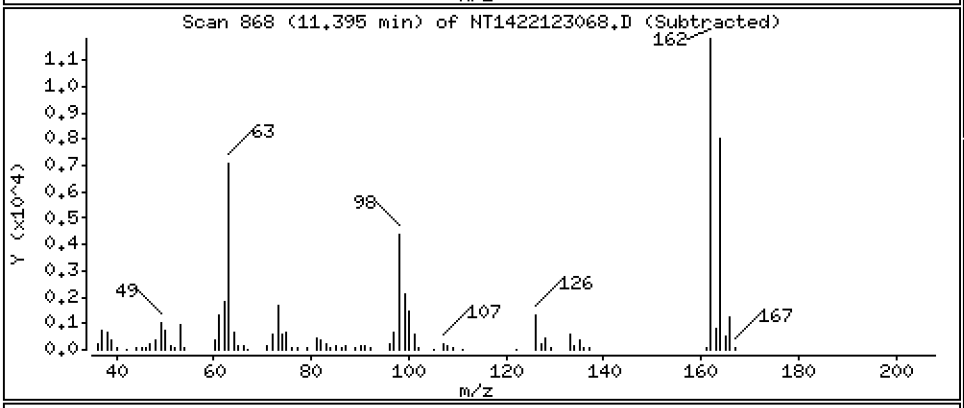
Column phase: ZB-5msi

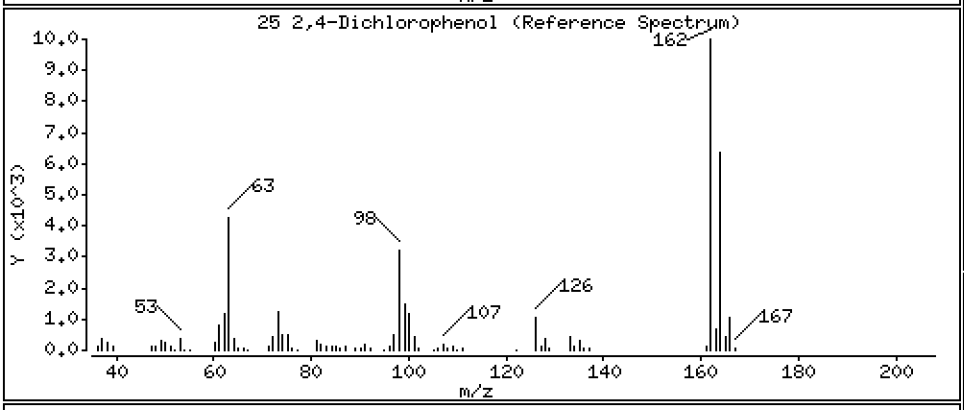
Column diameter: 0.25

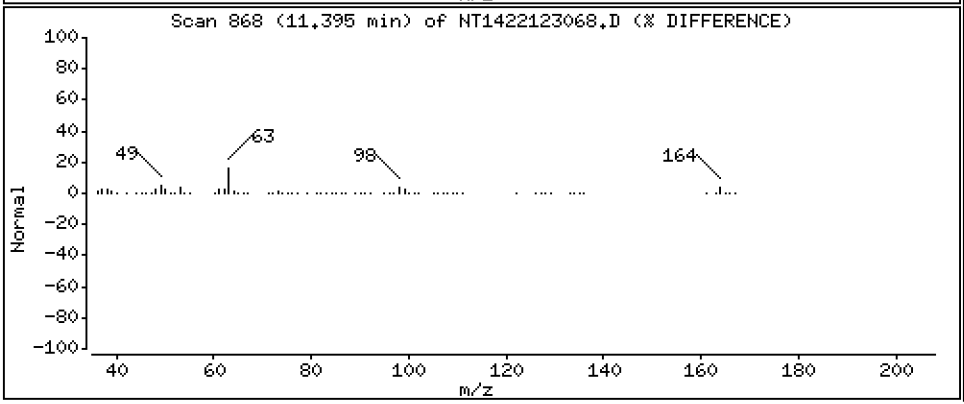
25 2,4-Dichlorophenol

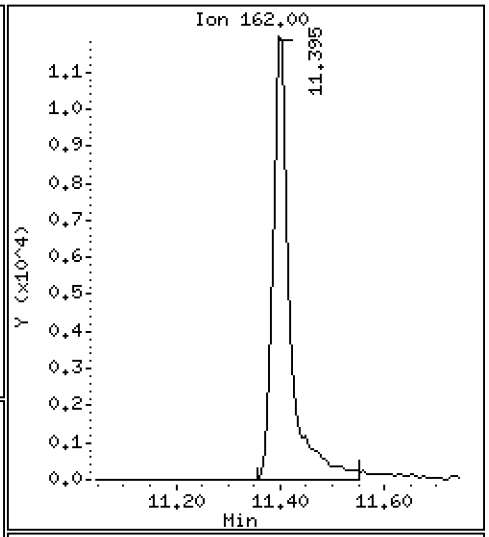
Concentration: 0.9599 ug/mL

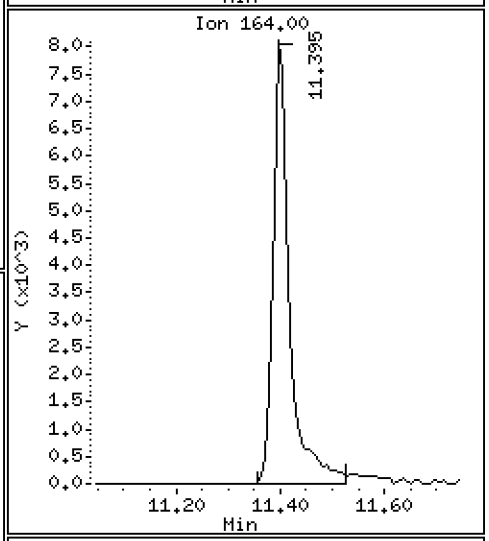


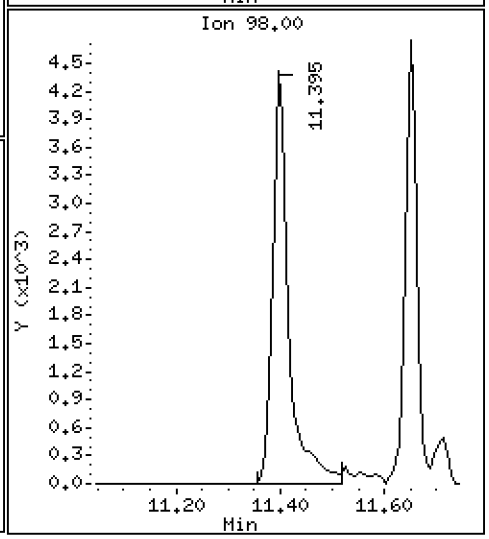












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

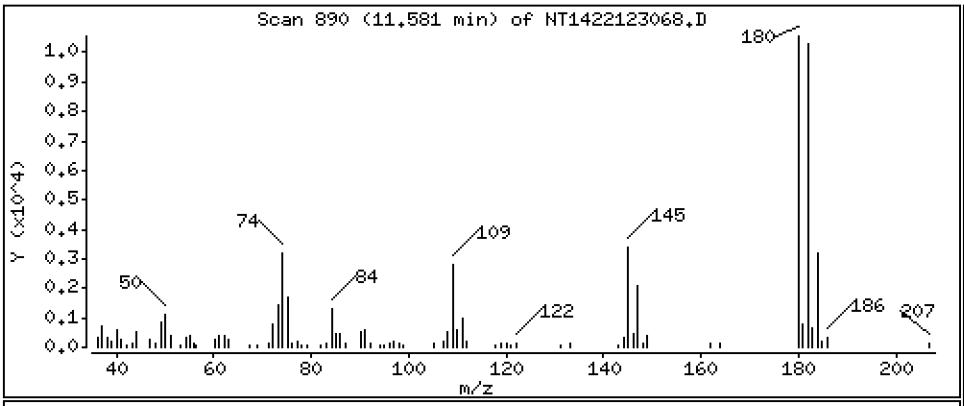
Operator: VTS

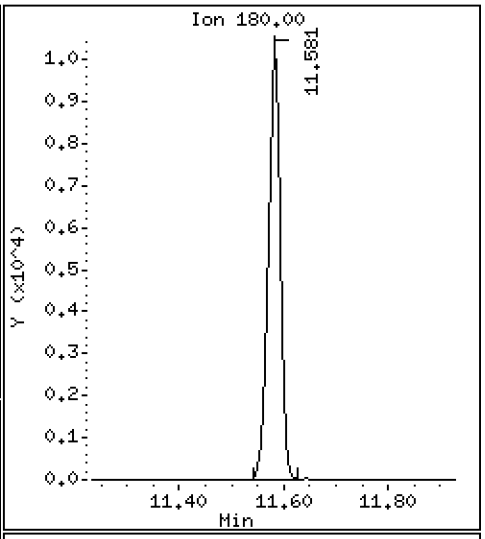
Column phase: ZB-5msi

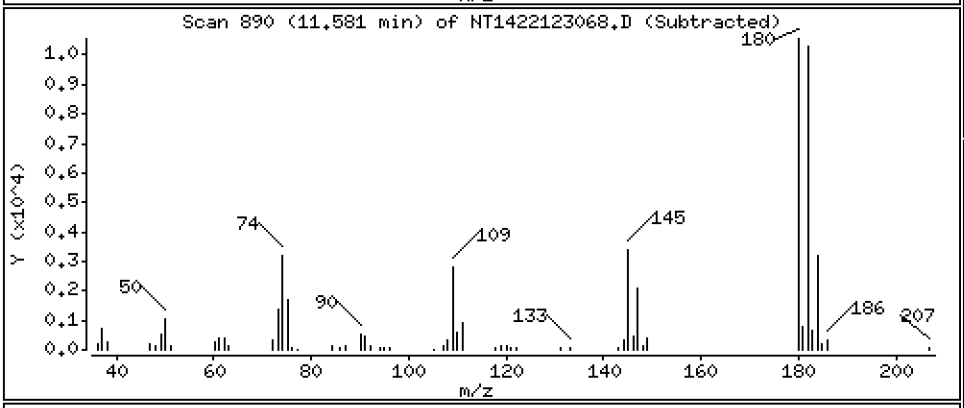
Column diameter: 0.25

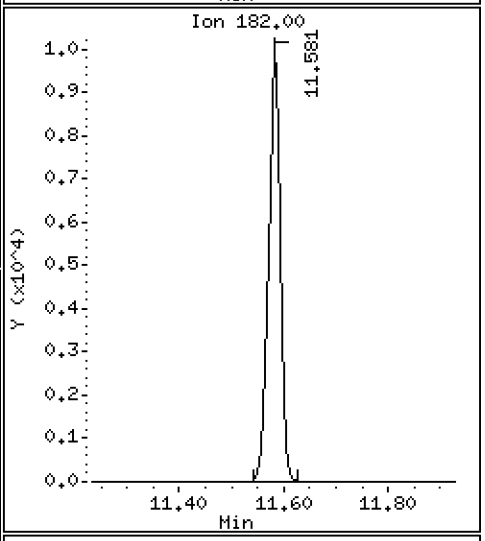
26 1,2,4-Trichlorobenzene

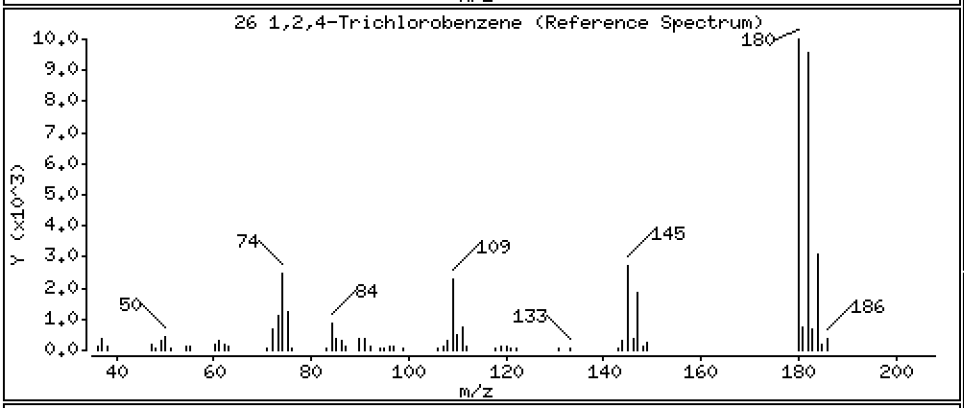
Concentration: 0.4890 ug/mL

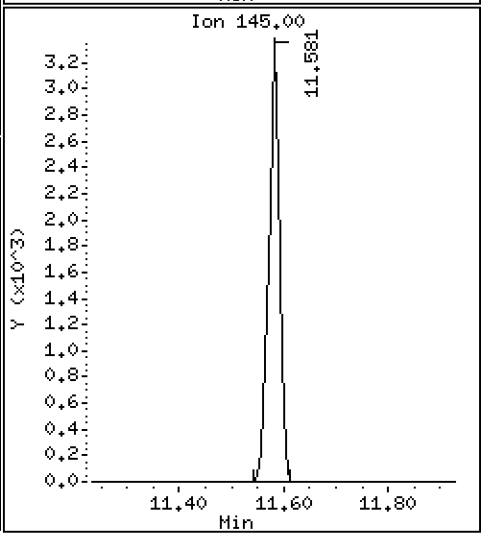


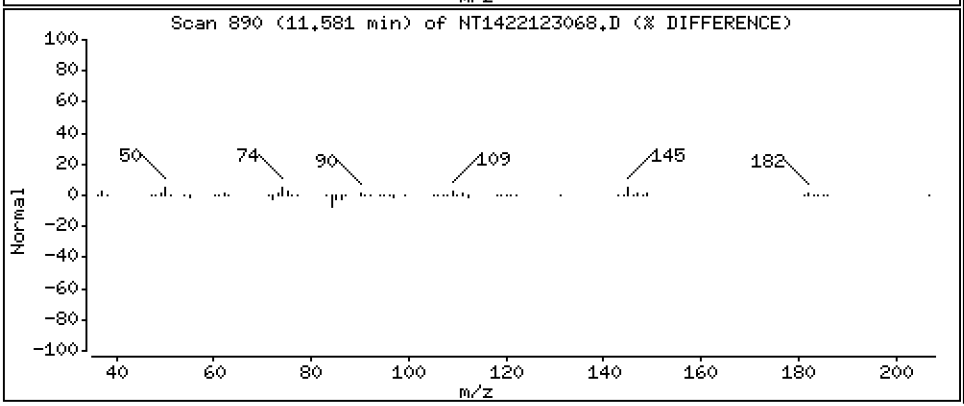












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

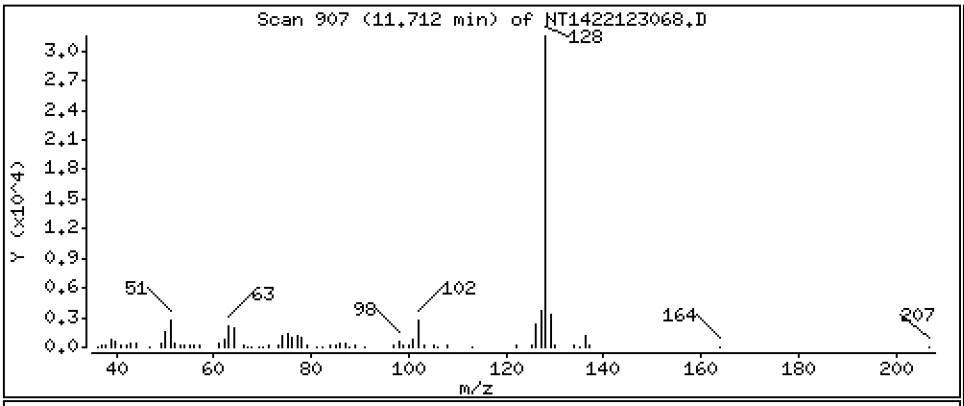
Operator: VTS

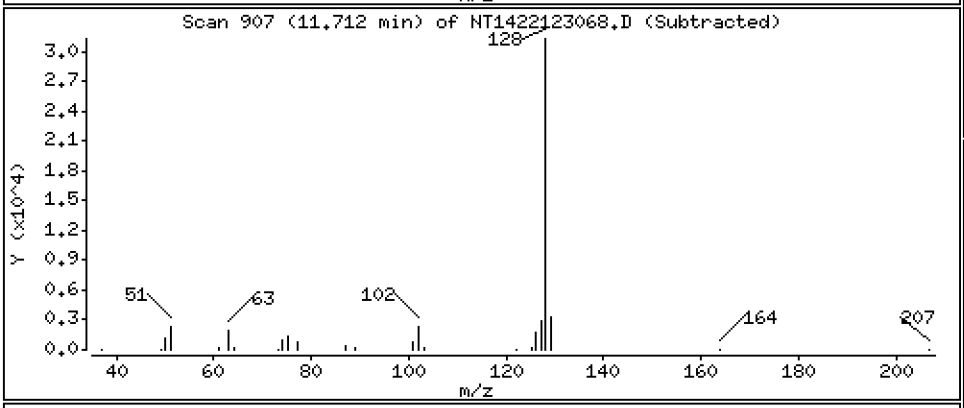
Column phase: ZB-5msi

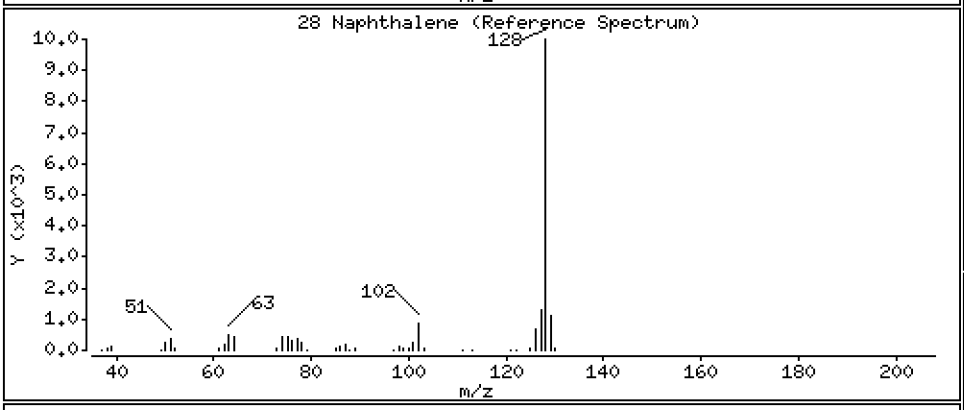
Column diameter: 0.25

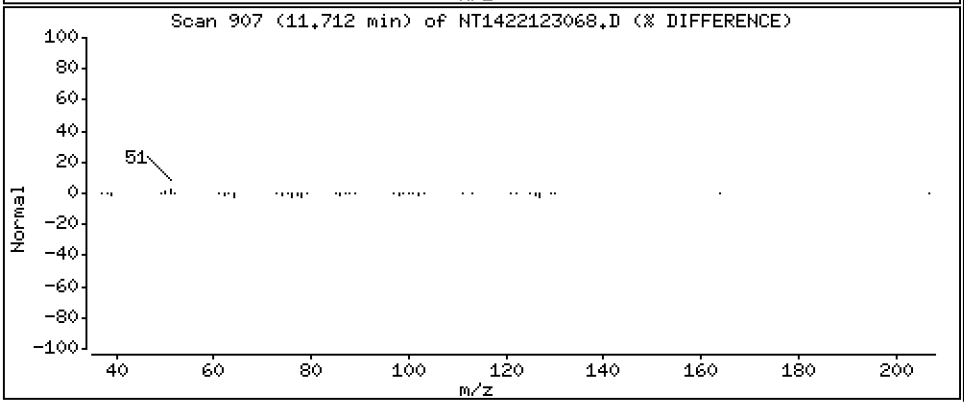
28 Naphthalene

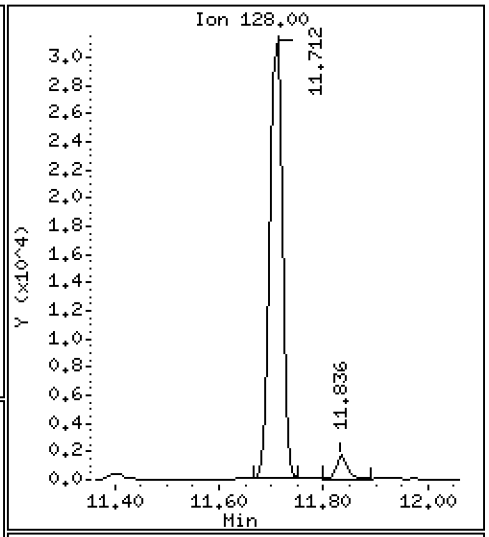
Concentration: 0.4854 ug/mL

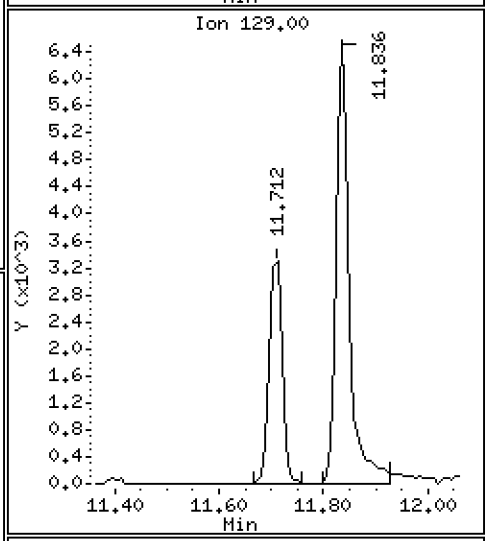


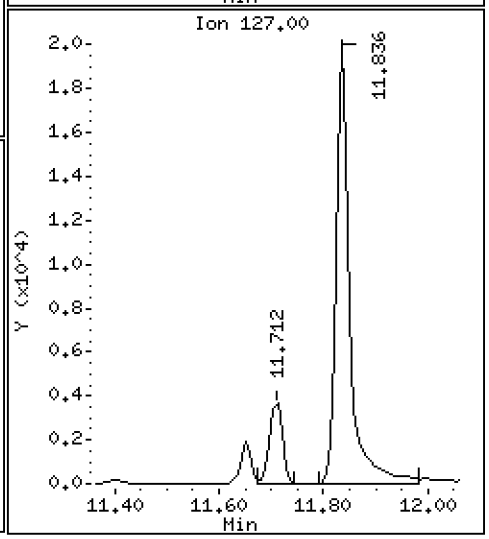












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

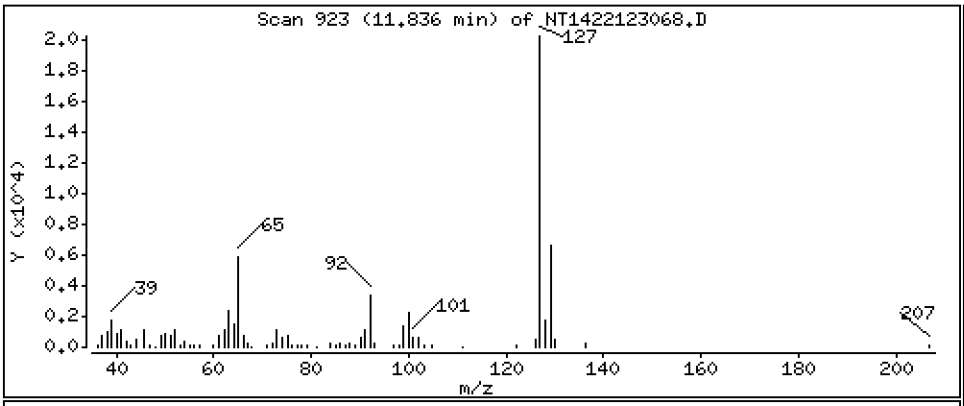
Operator: VTS

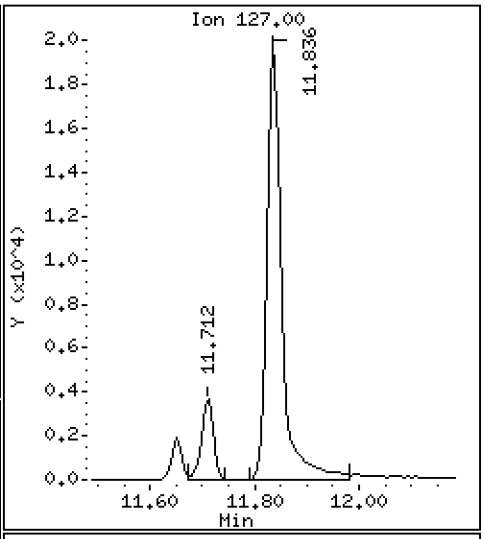
Column phase: ZB-5msi

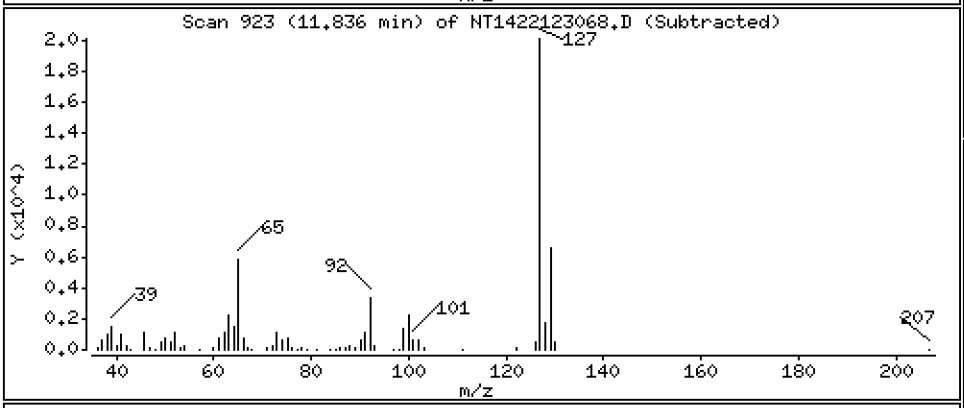
Column diameter: 0.25

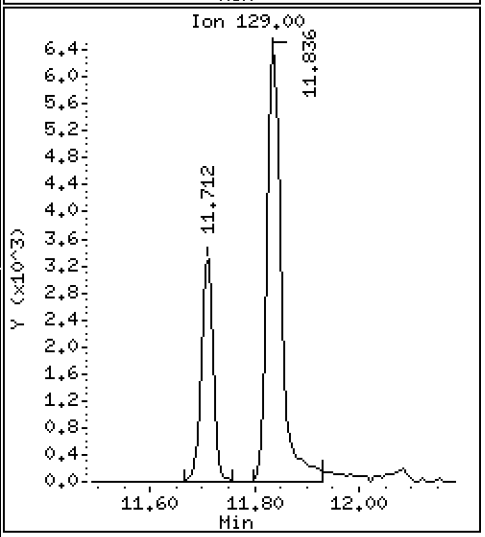
29 4-Chloroaniline

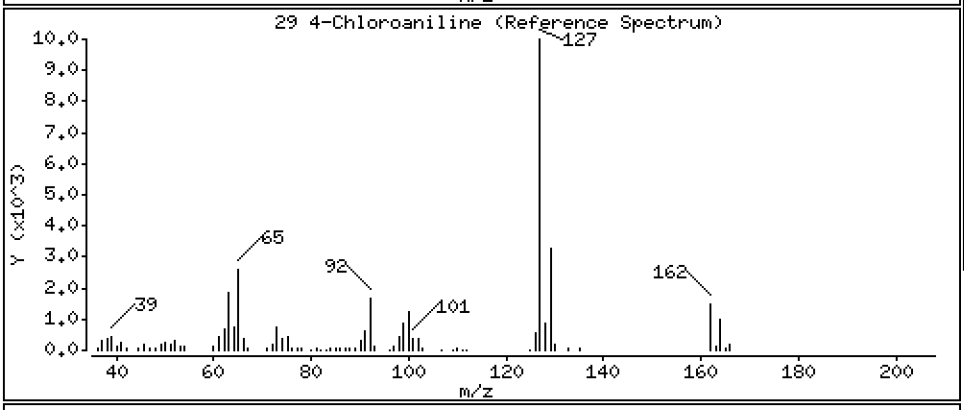
Concentration: 0.8885 ug/mL

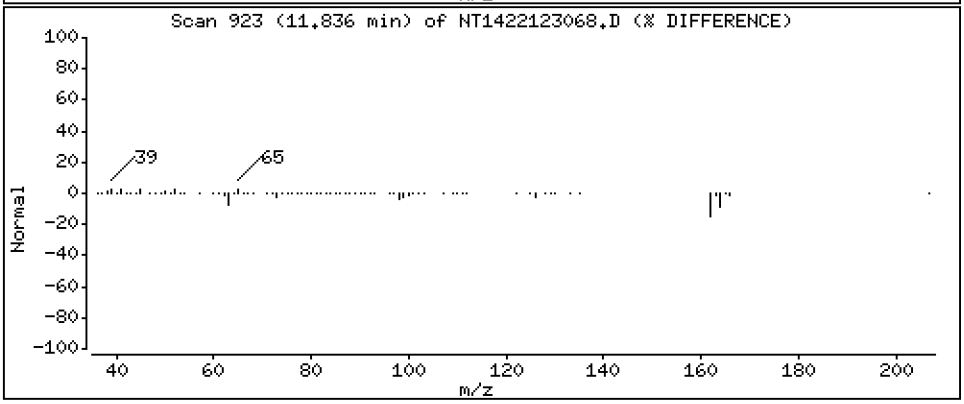












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

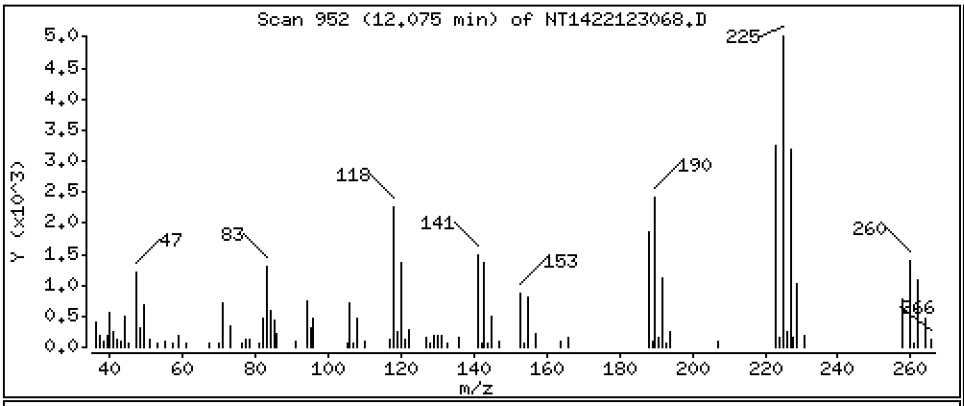
Operator: VTS

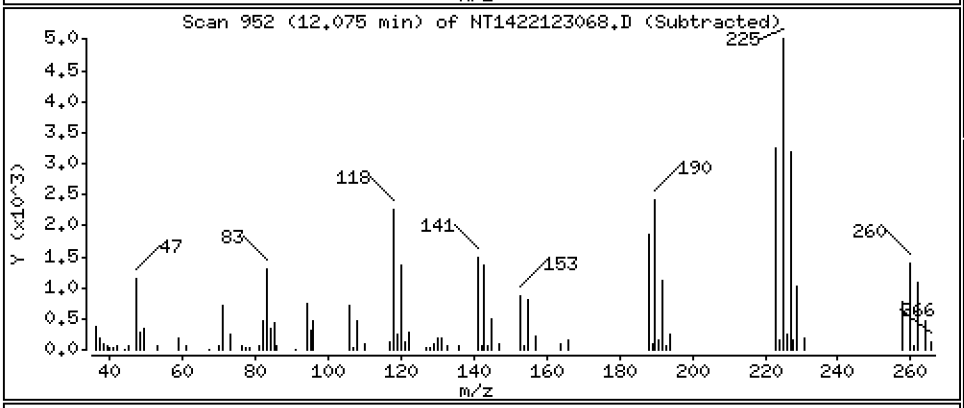
Column phase: ZB-5msi

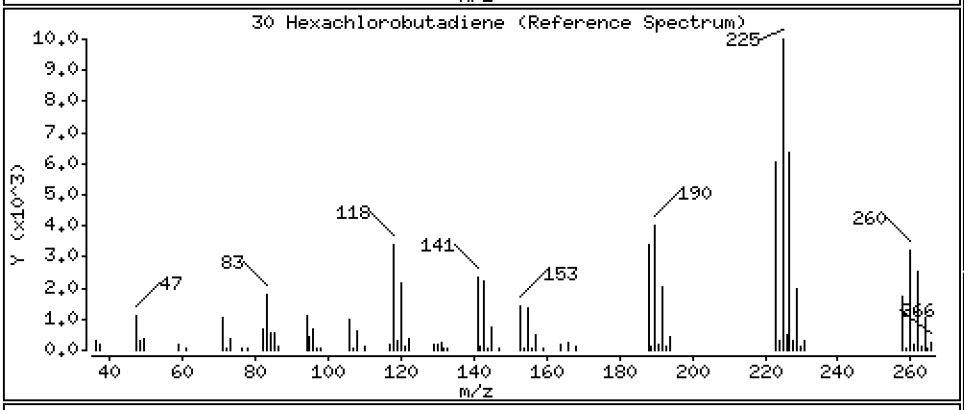
Column diameter: 0.25

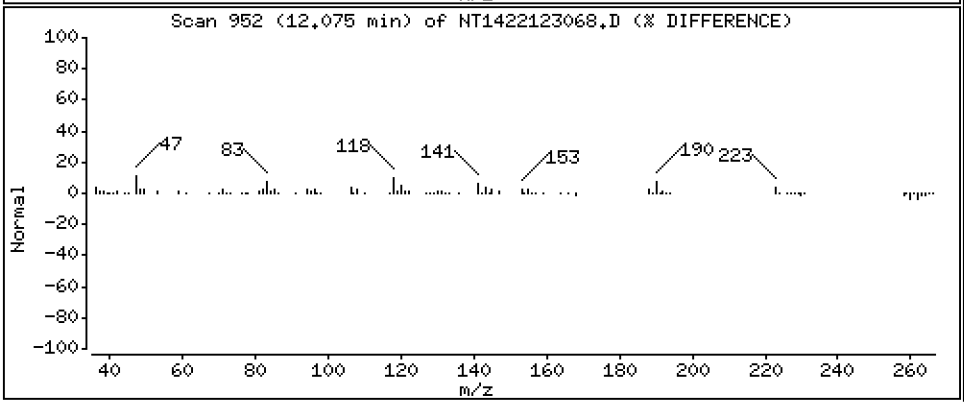
30 Hexachlorobutadiene

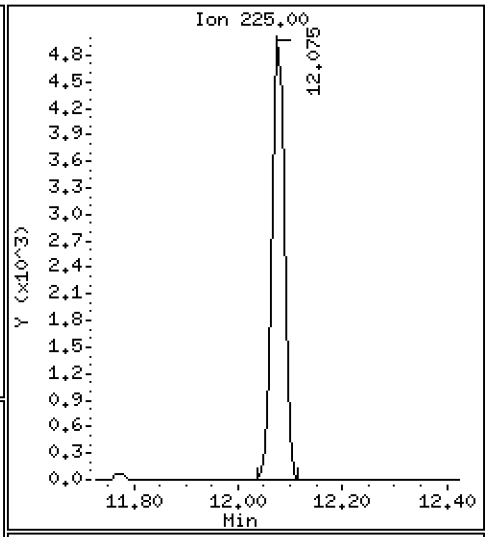
Concentration: 0.4777 ug/mL

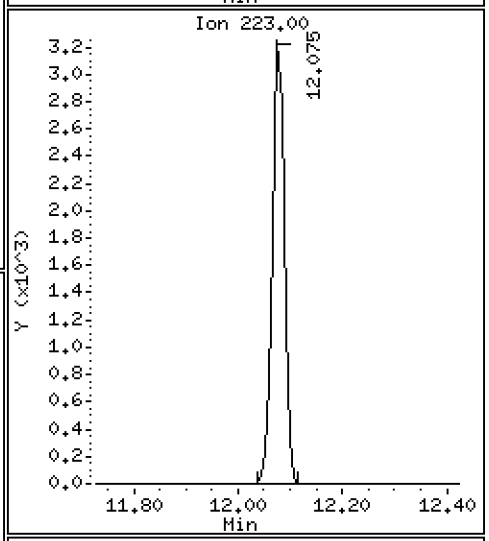


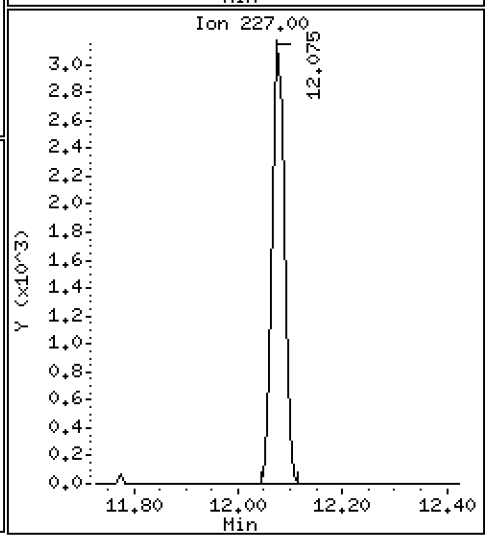












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

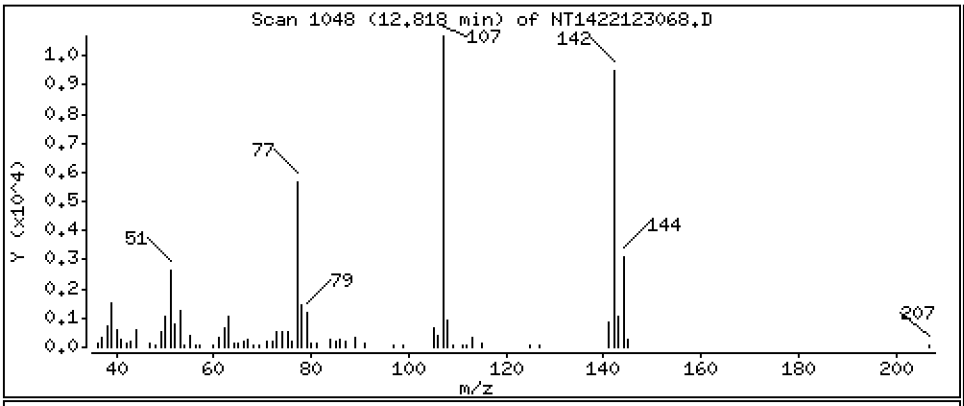
Operator: VTS

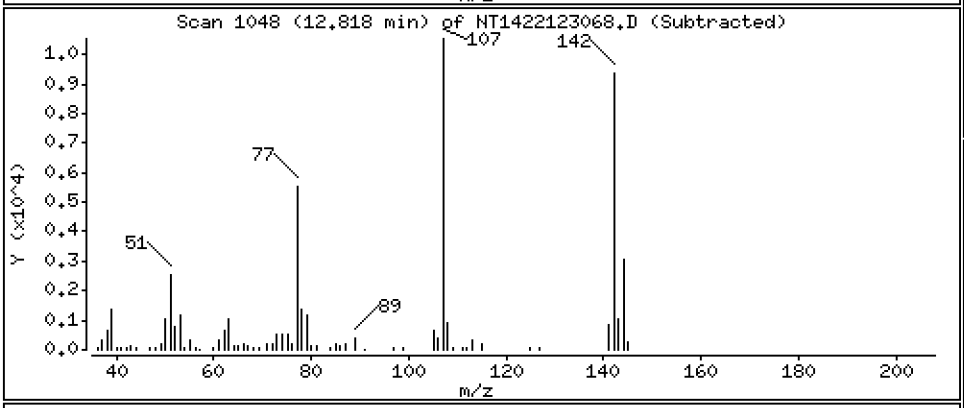
Column phase: ZB-5msi

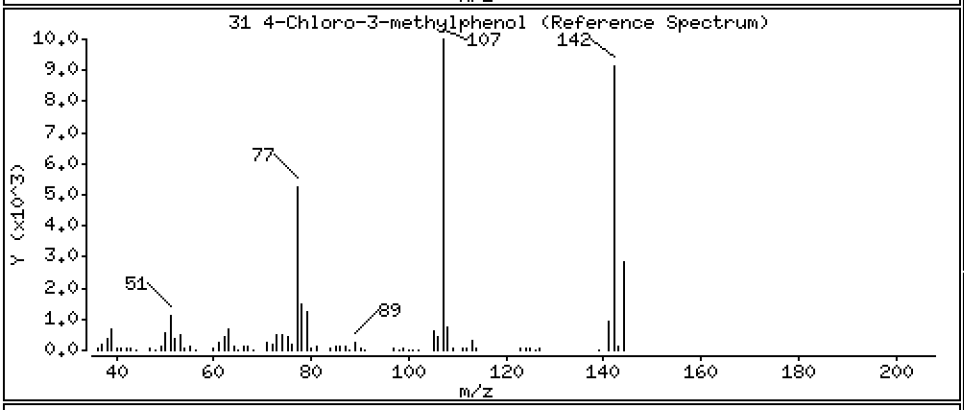
Column diameter: 0.25

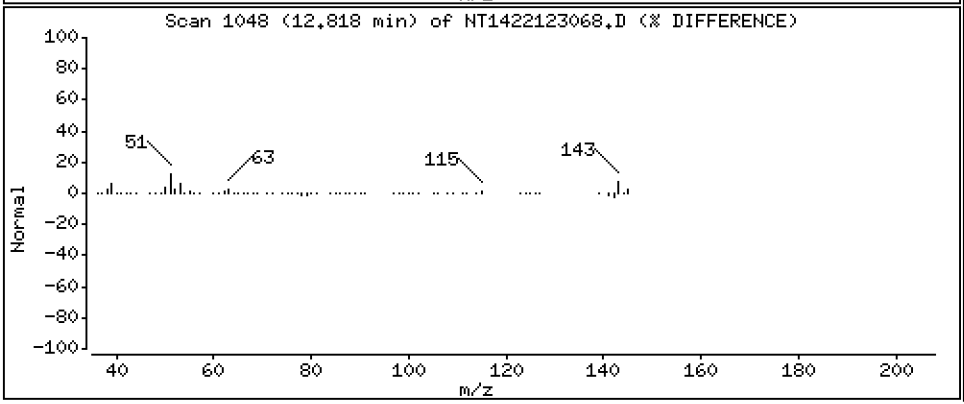
31 4-Chloro-3-methylphenol

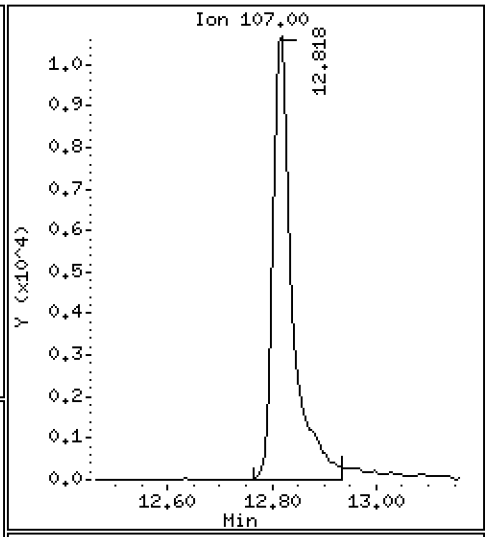
Concentration: 0.9495 ug/mL

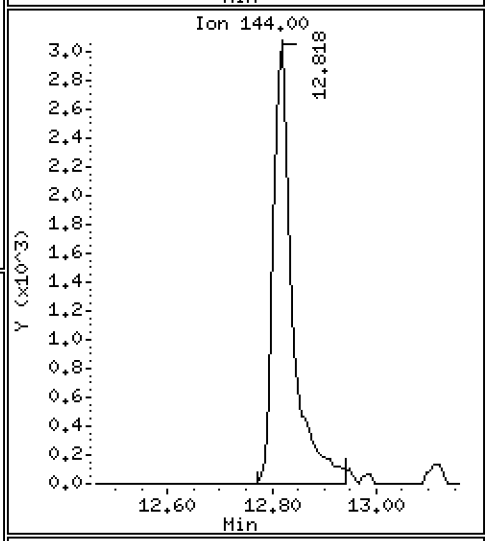


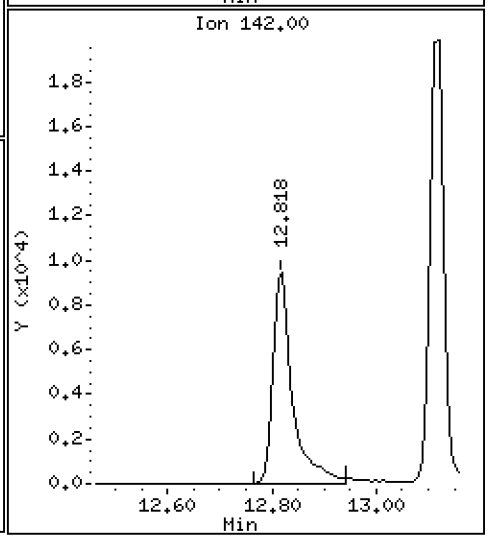












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

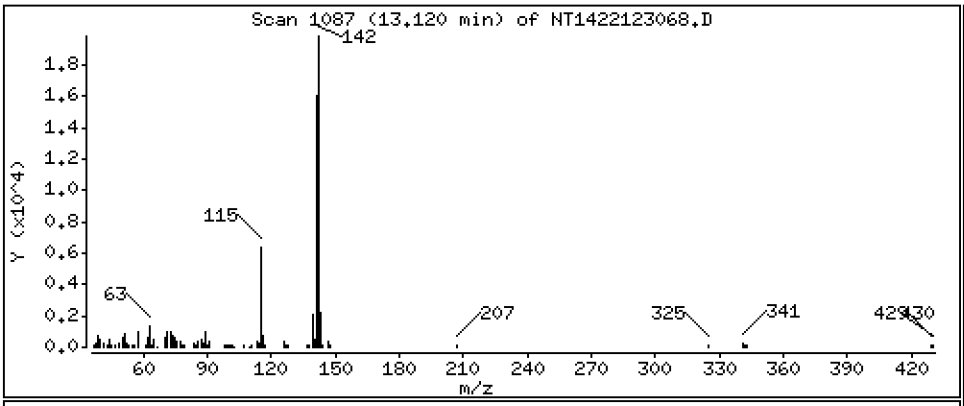
Operator: VTS

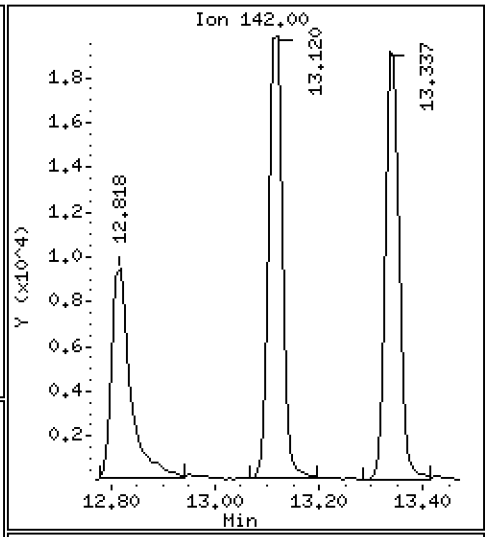
Column phase: ZB-5msi

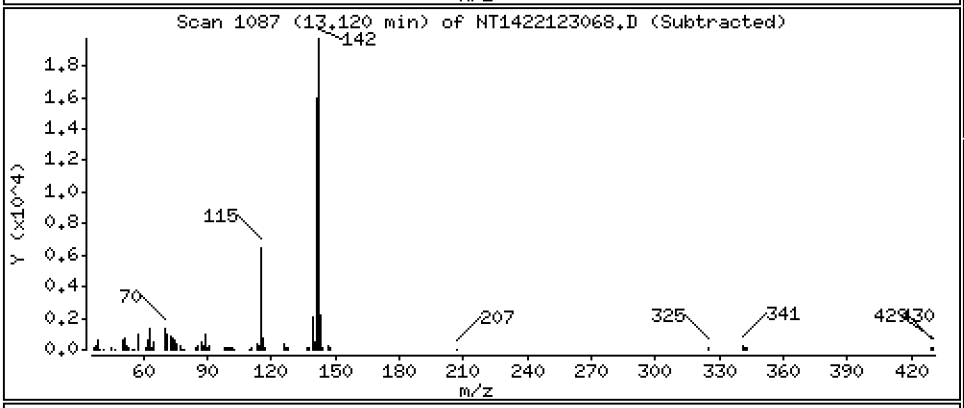
Column diameter: 0.25

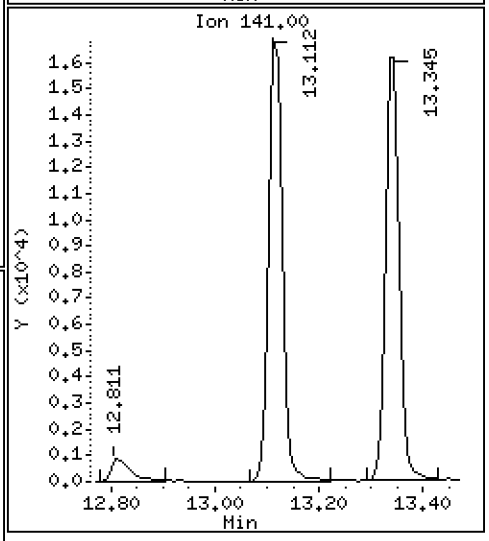
32 2-Methylnaphthalene

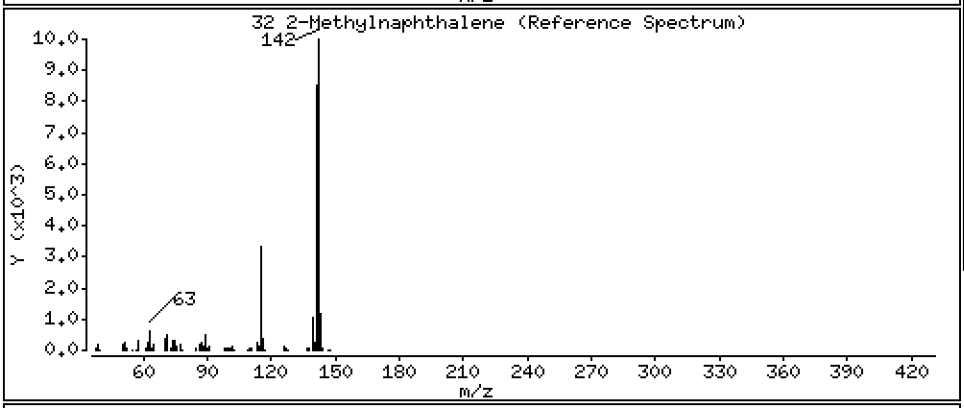
Concentration: 0.4656 ug/mL

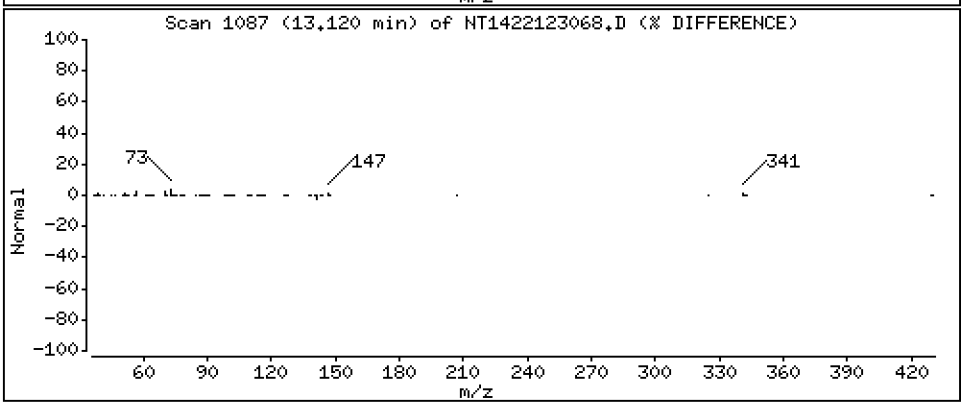












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

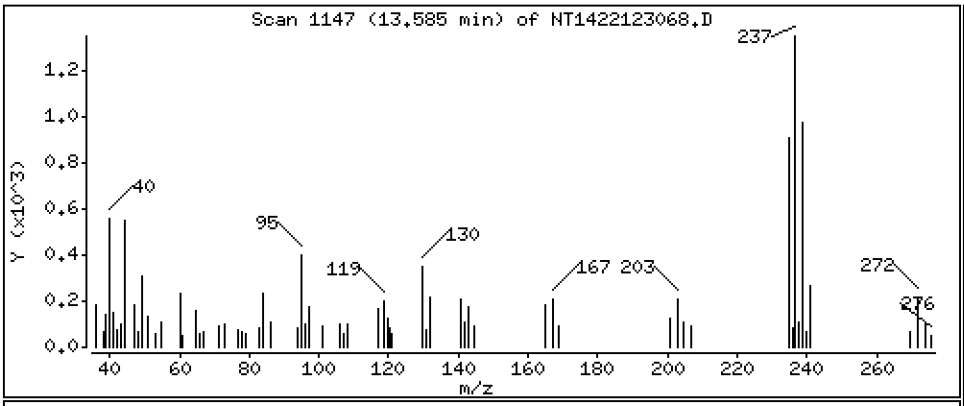
Operator: VTS

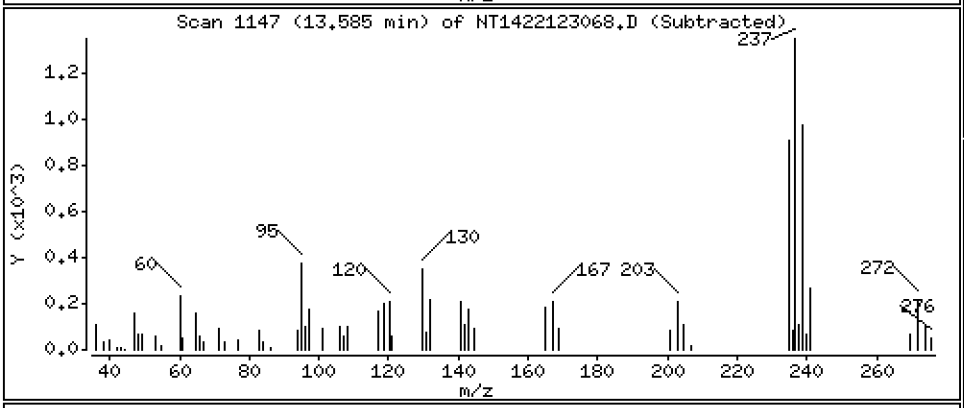
Column phase: ZB-5msi

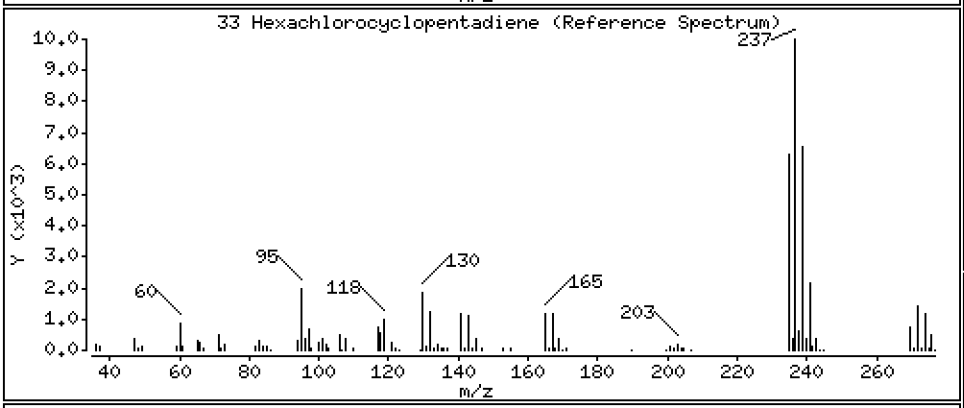
Column diameter: 0.25

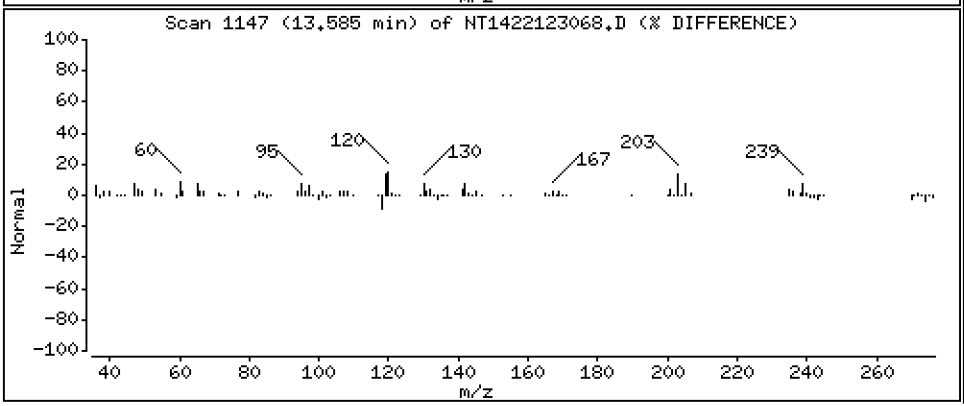
33 Hexachlorocyclopentadiene

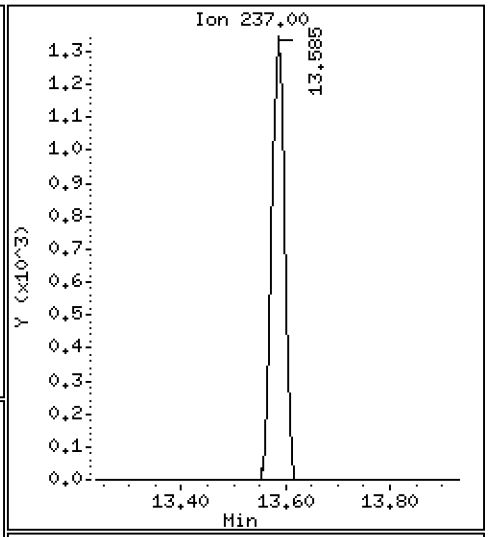
Concentration: 0.1373 ug/mL

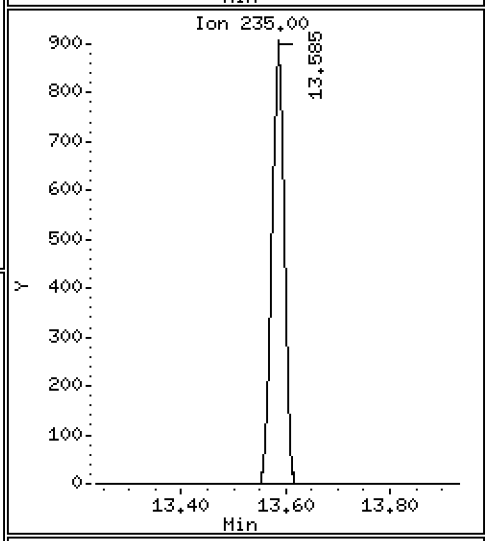


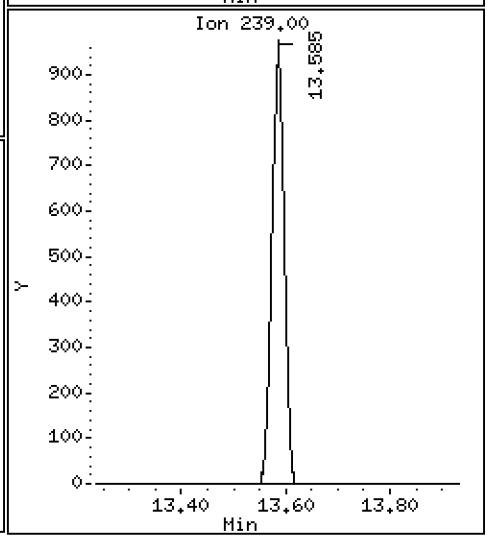












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

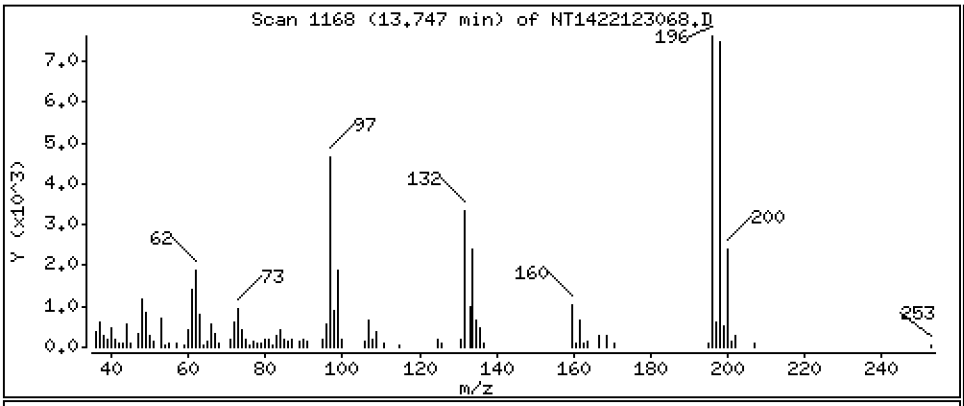
Operator: VTS

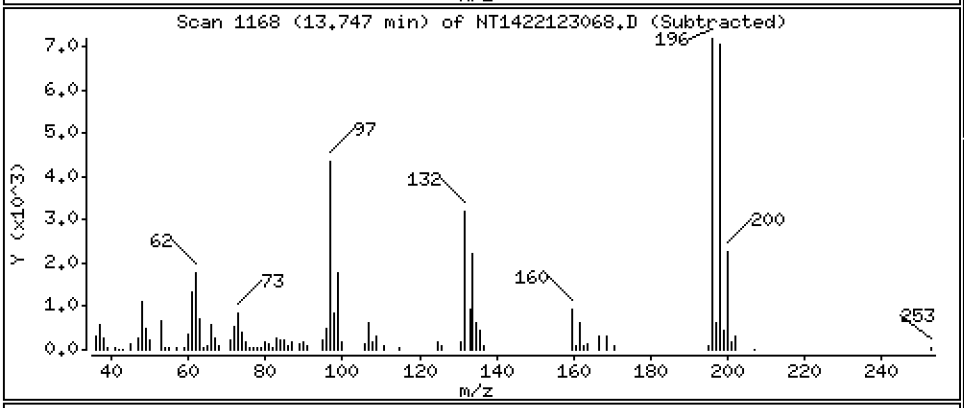
Column phase: ZB-5msi

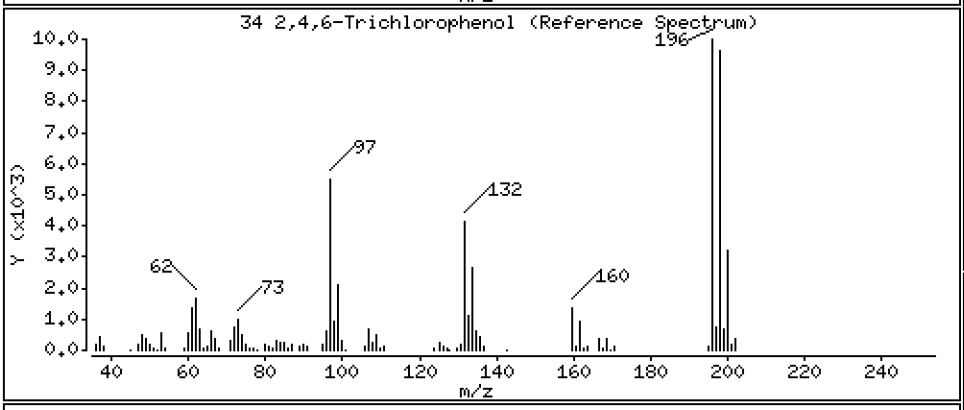
Column diameter: 0.25

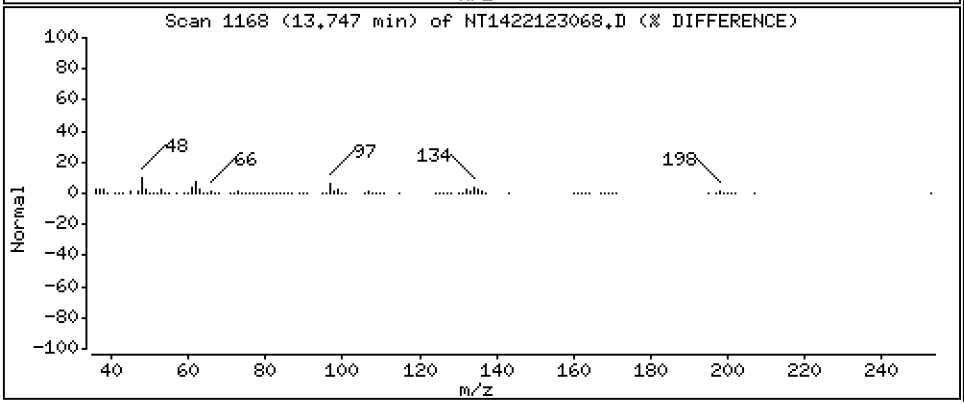
34 2,4,6-Trichlorophenol

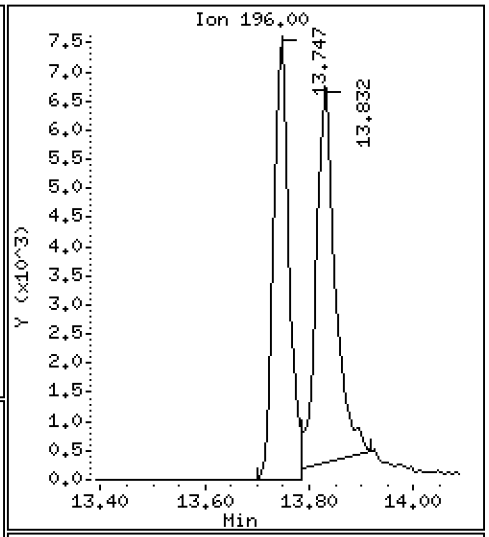
Concentration: 0.8738 ug/mL

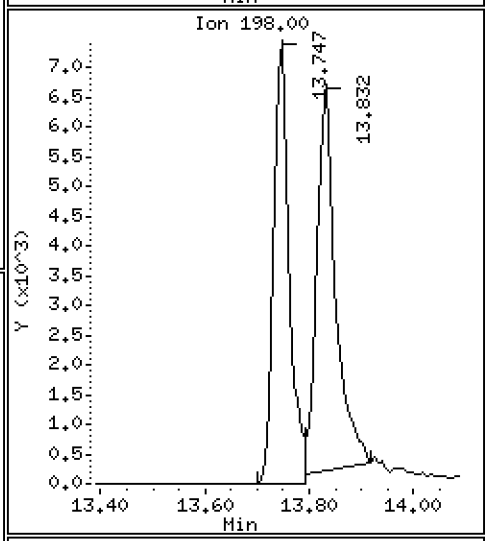


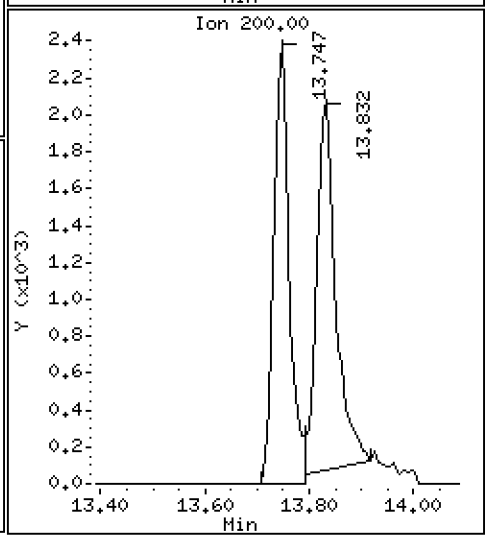












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

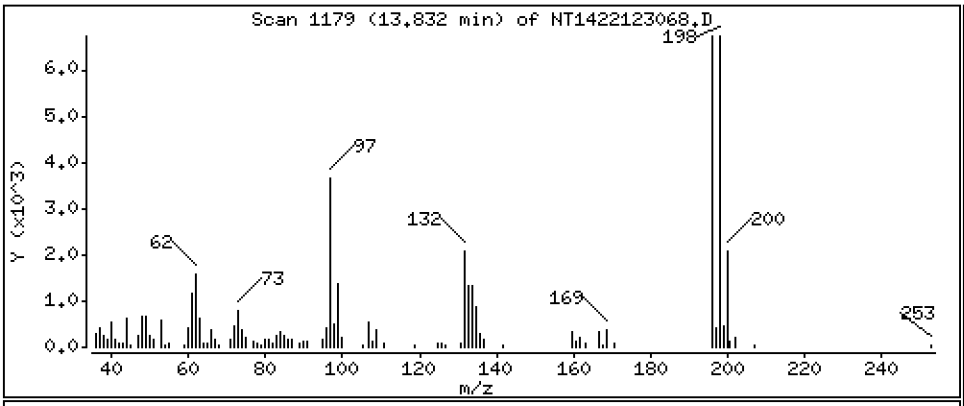
Operator: VTS

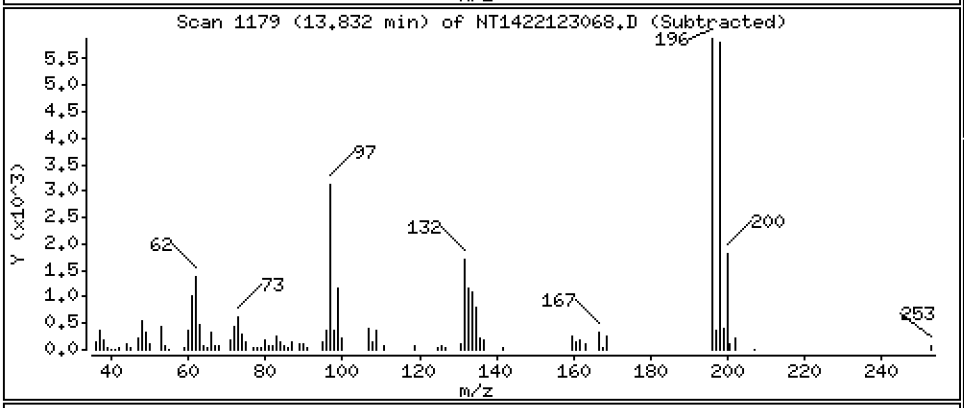
Column phase: ZB-5msi

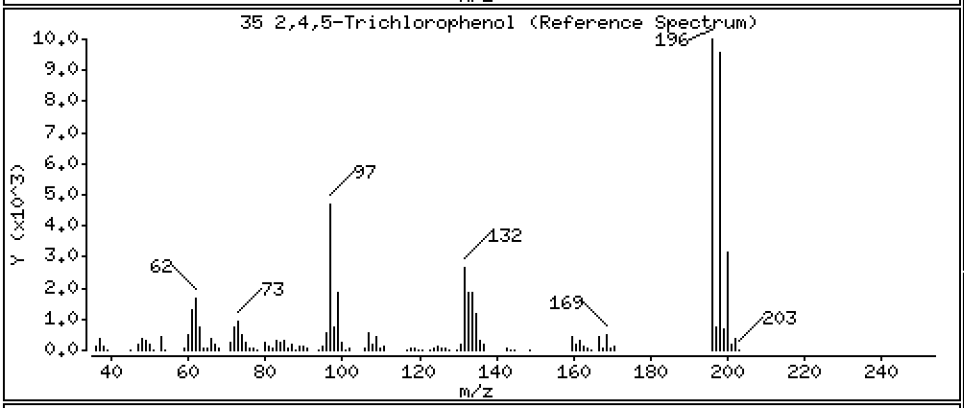
Column diameter: 0.25

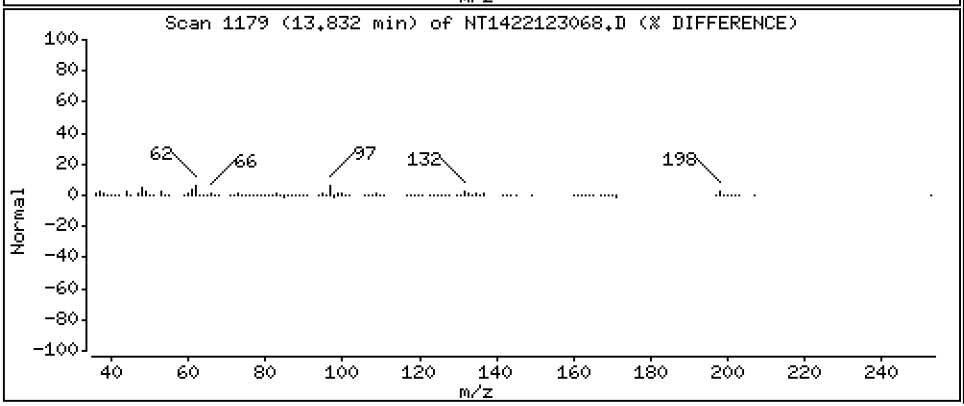
35 2,4,5-Trichlorophenol

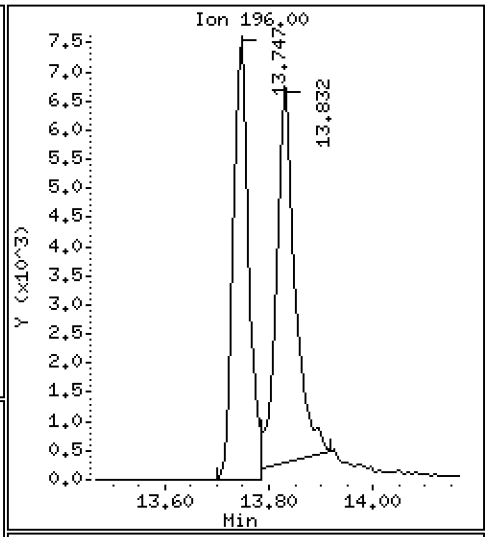
Concentration: 0.8019 ug/mL

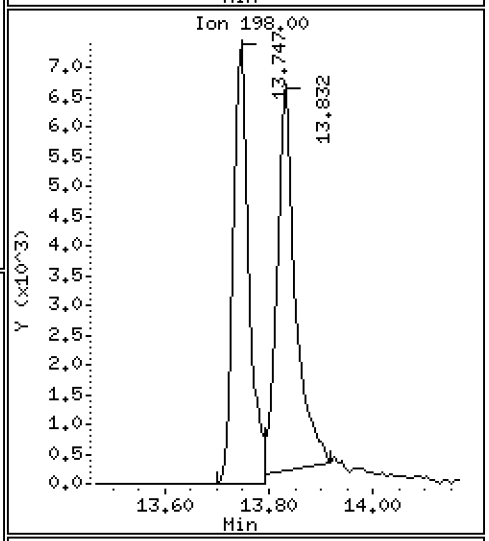


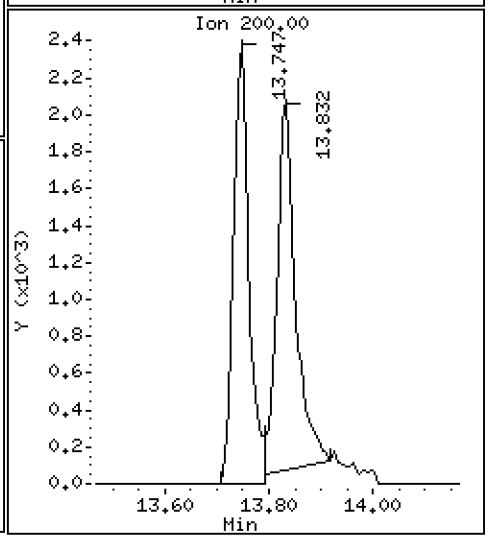












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

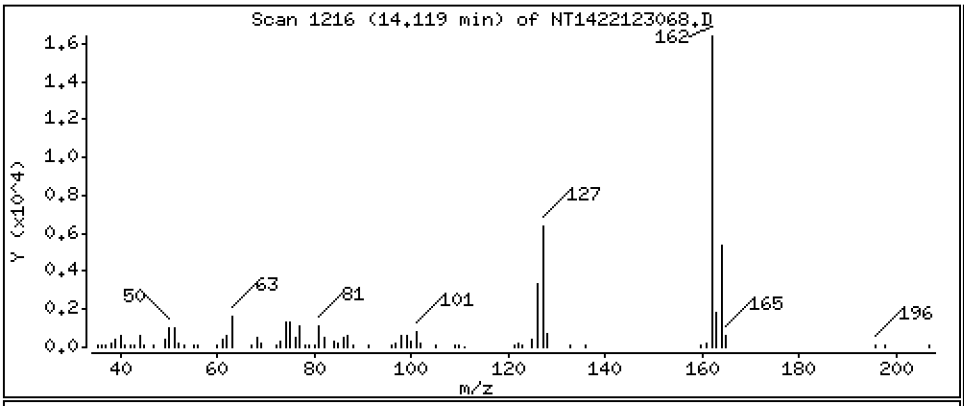
Operator: VTS

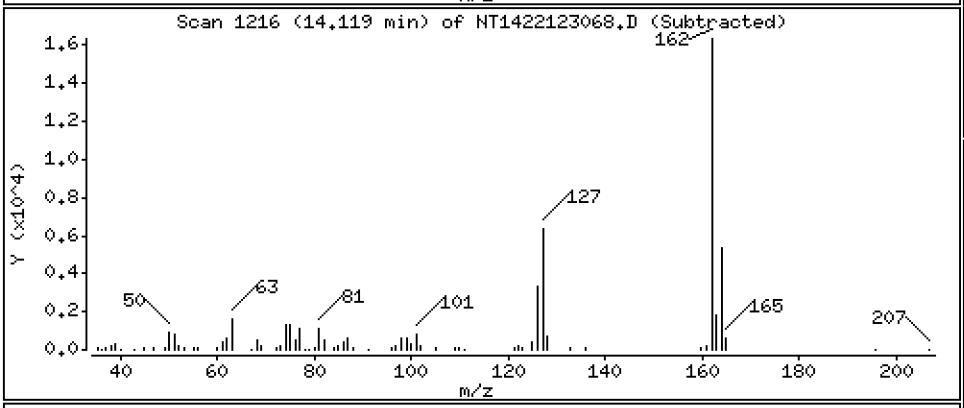
Column phase: ZB-5msi

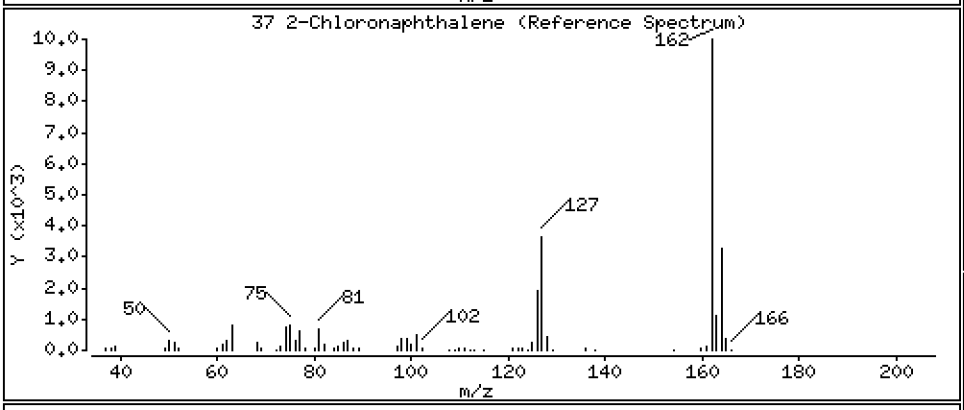
Column diameter: 0.25

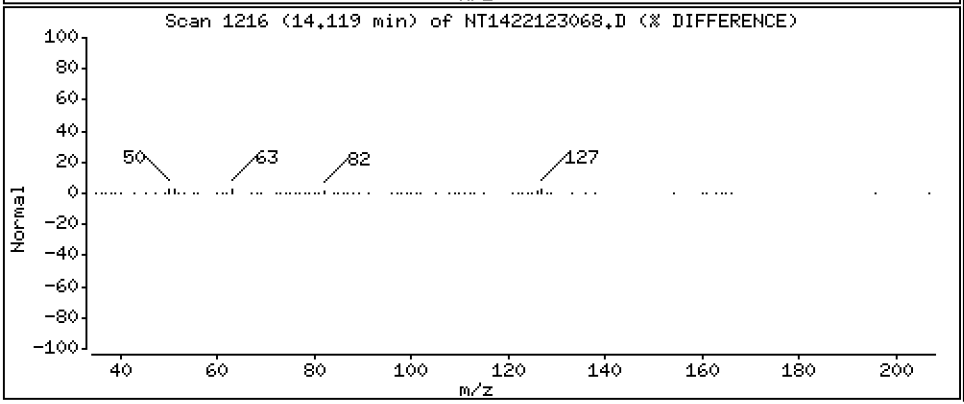
37 2-Chloronaphthalene

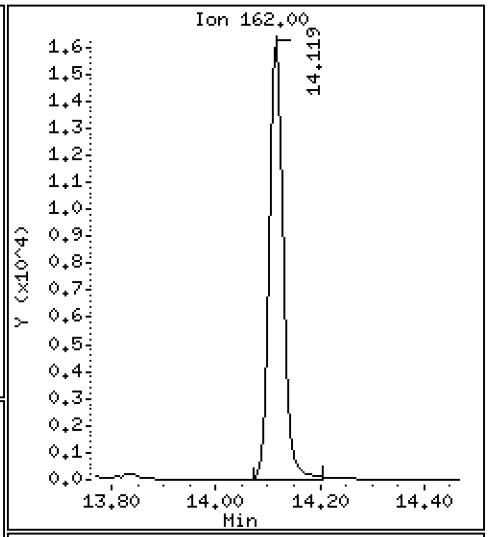
Concentration: 0.4809 ug/mL

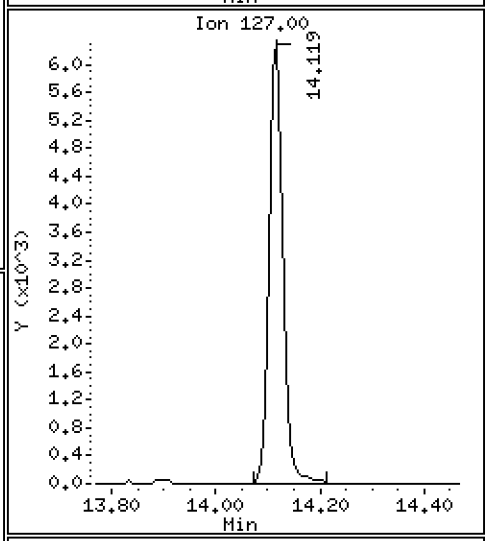


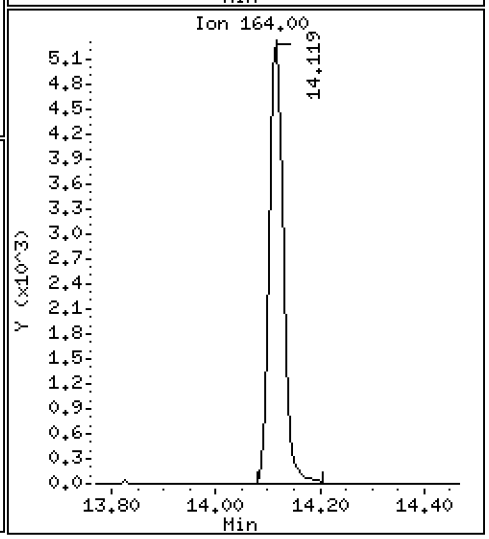












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

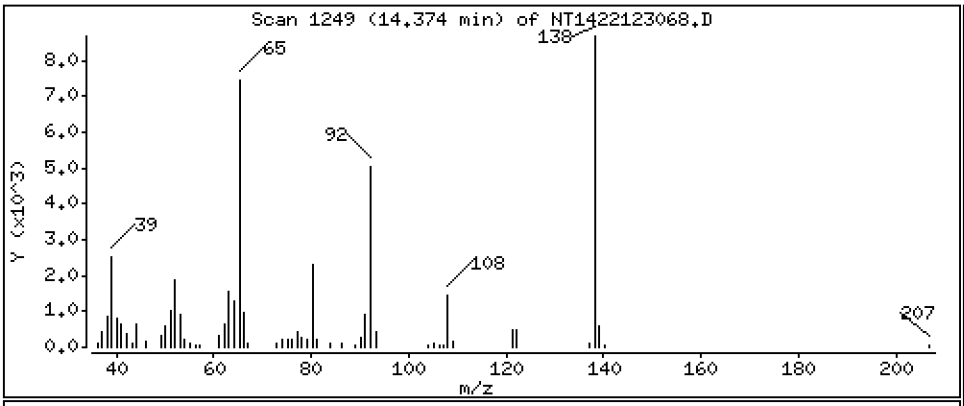
Operator: VTS

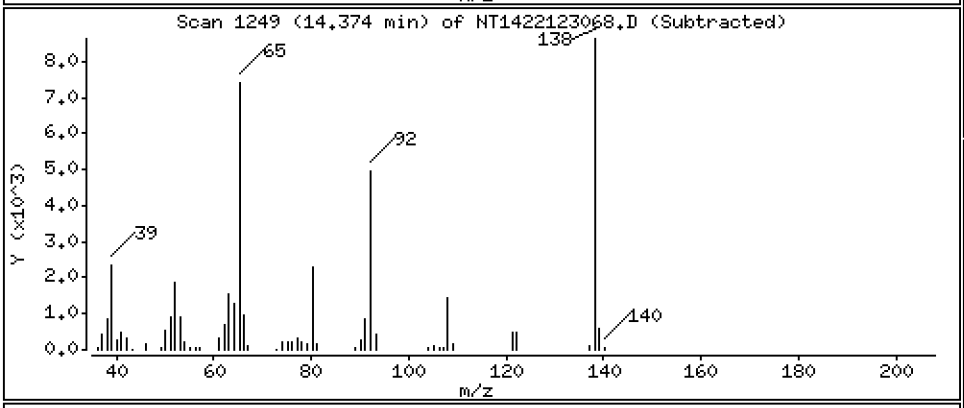
Column phase: ZB-5msi

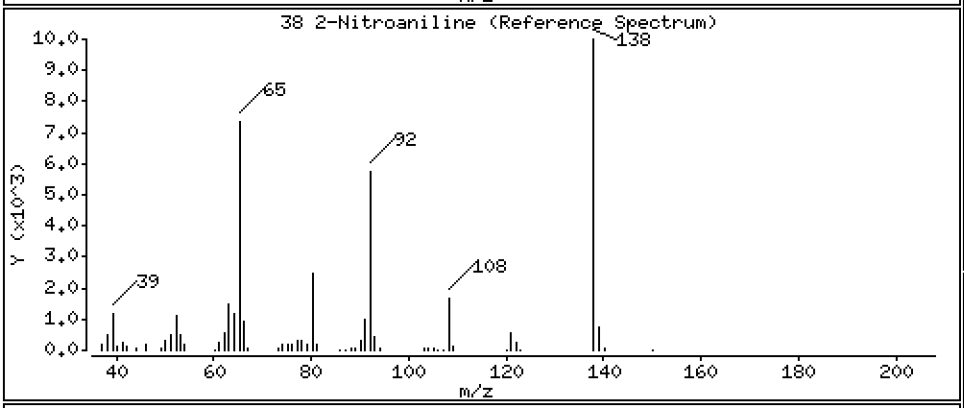
Column diameter: 0.25

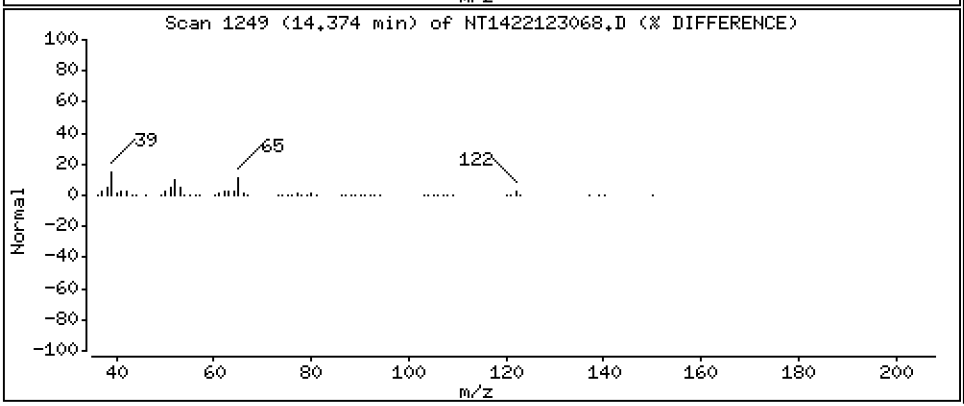
38 2-Nitroaniline

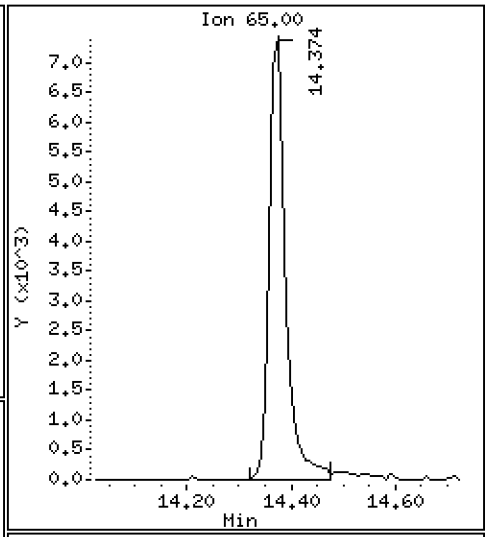
Concentration: 0.9872 ug/mL

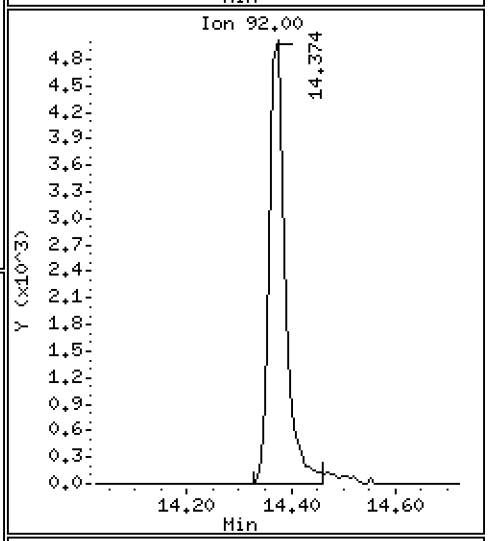


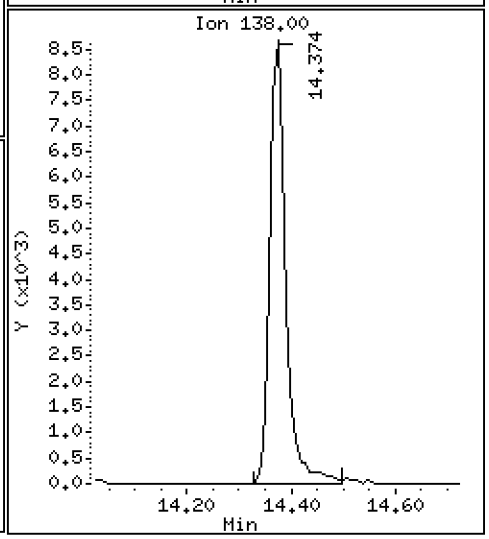












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

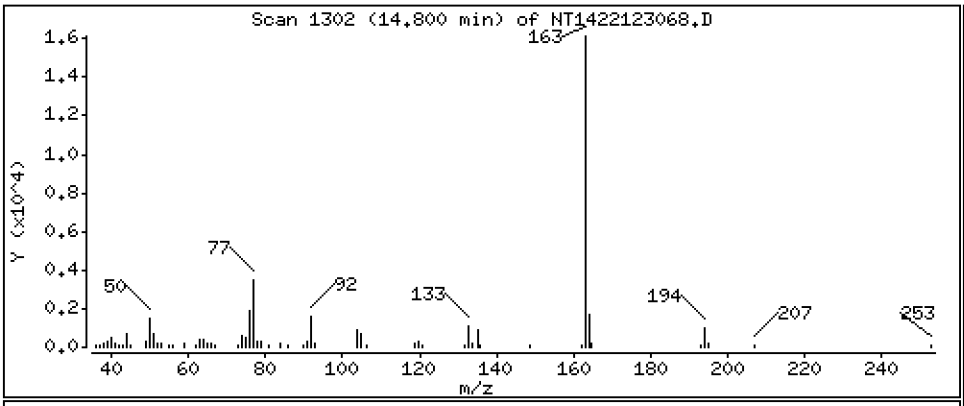
Operator: VTS

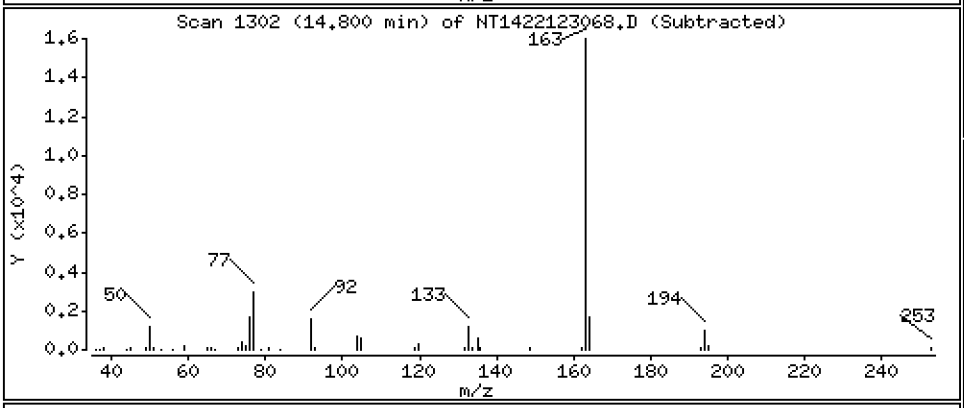
Column phase: ZB-5msi

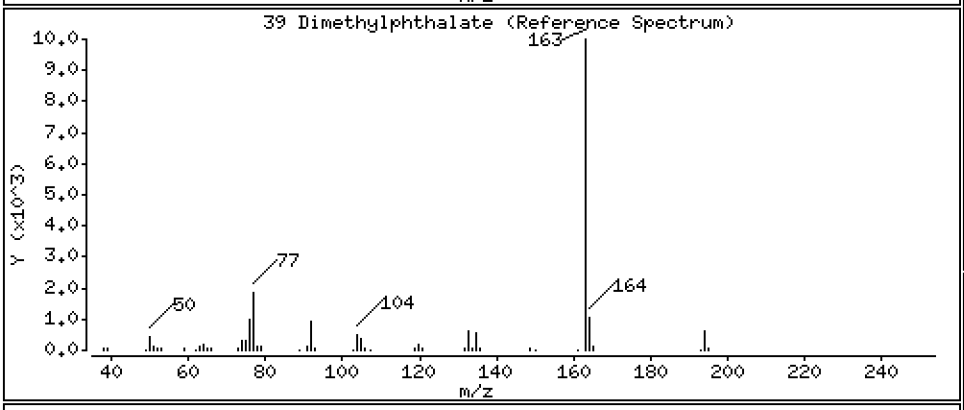
Column diameter: 0.25

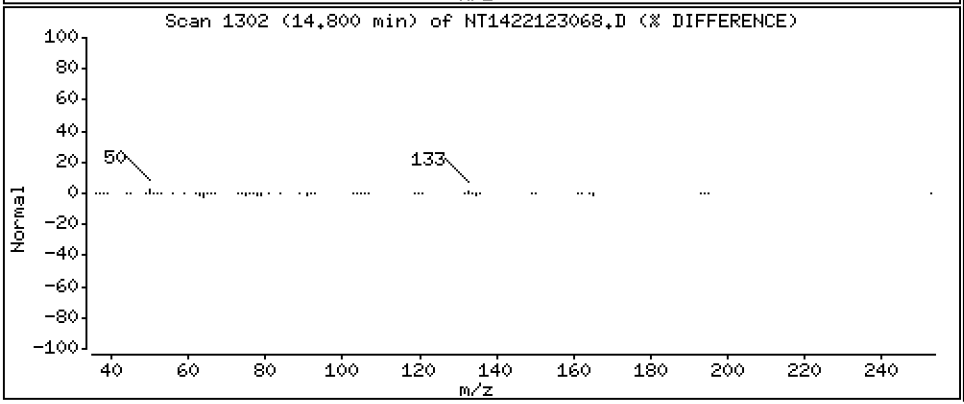
39 Dimethylphthalate

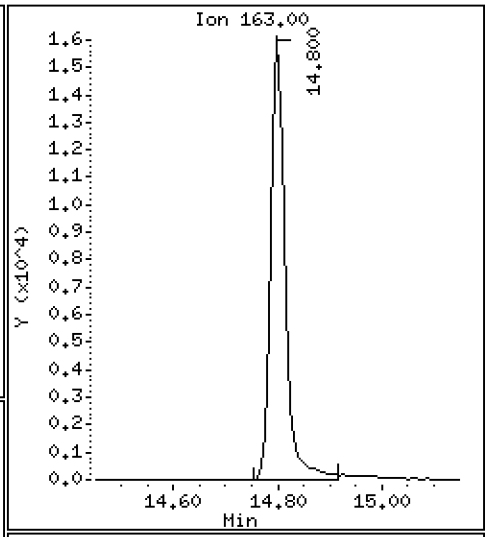
Concentration: 0.4956 ug/mL

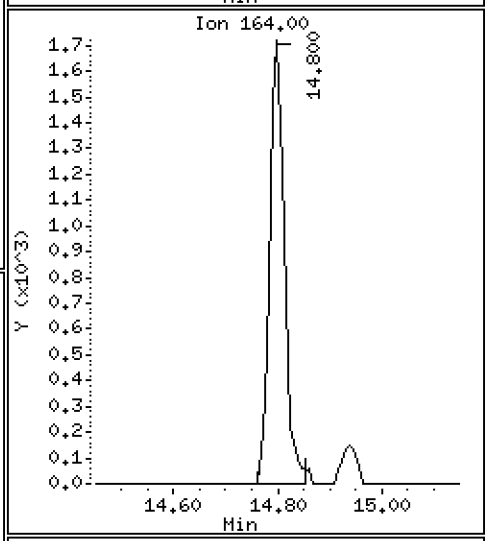


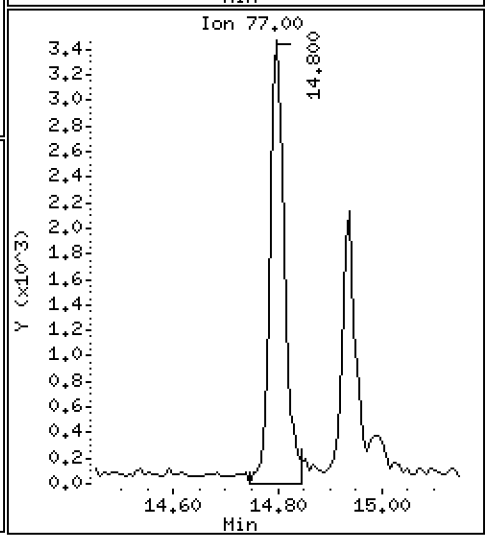












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

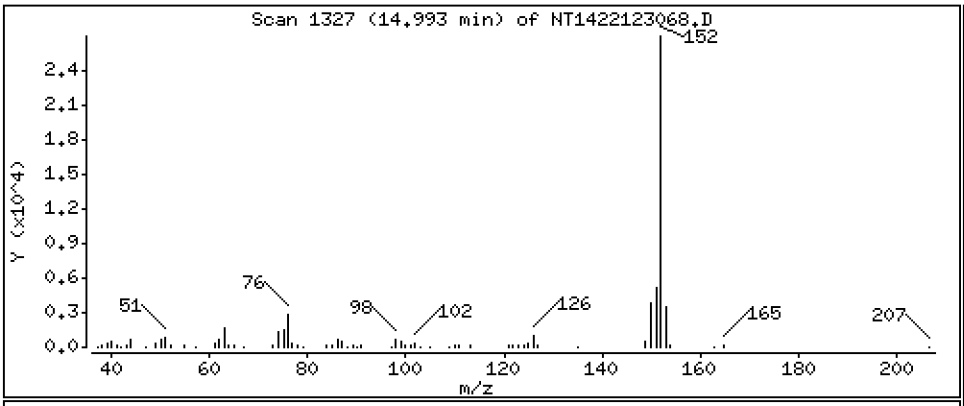
Operator: VTS

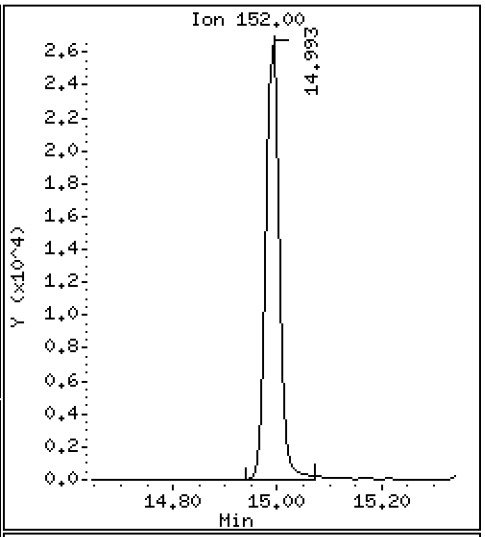
Column phase: ZB-5msi

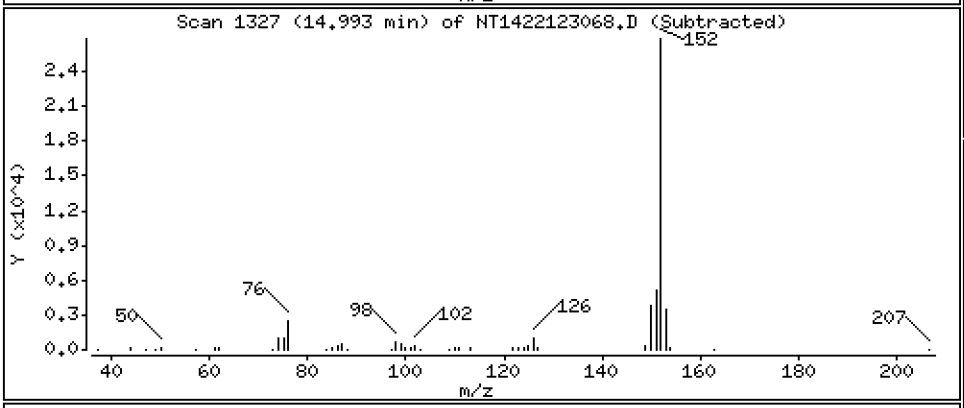
Column diameter: 0.25

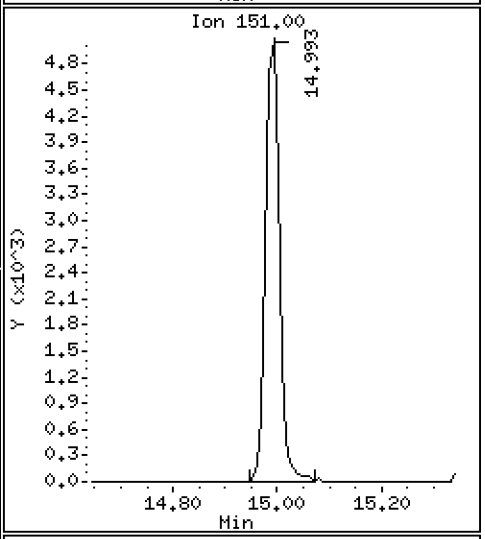
40 Acenaphthylene

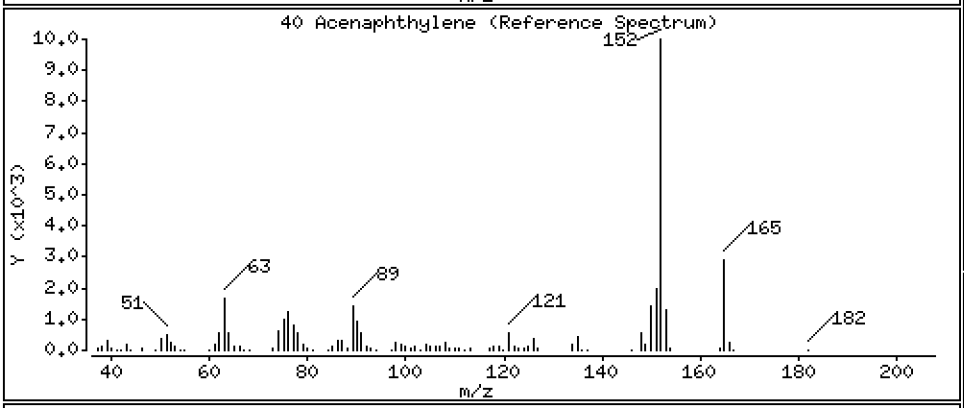
Concentration: 0.4979 ug/mL

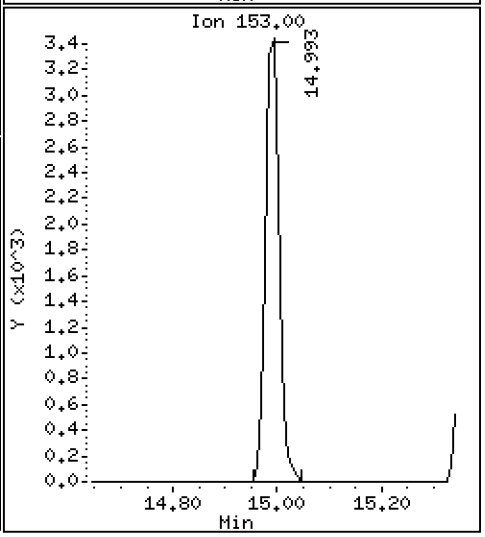


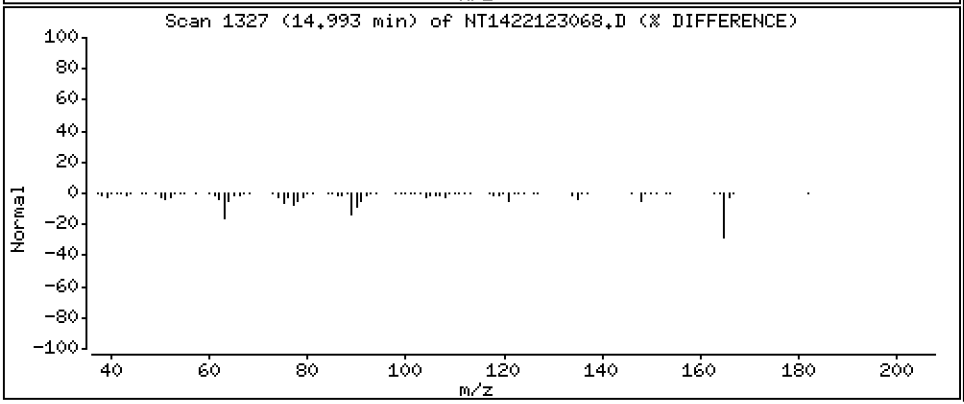












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

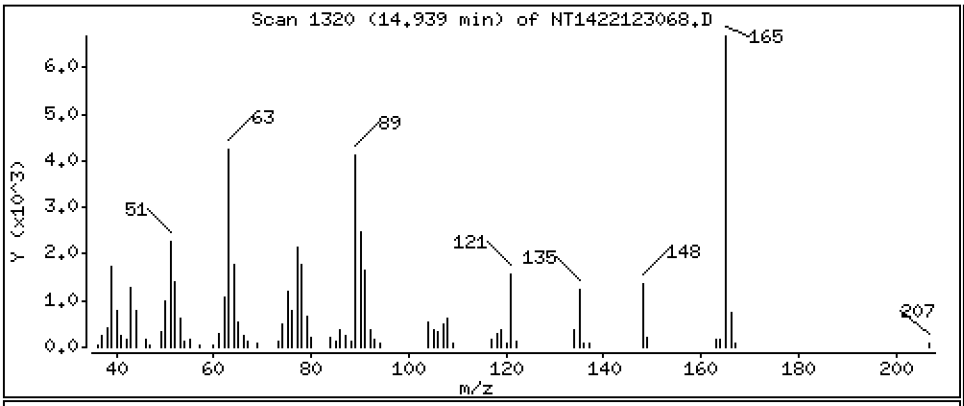
Operator: VTS

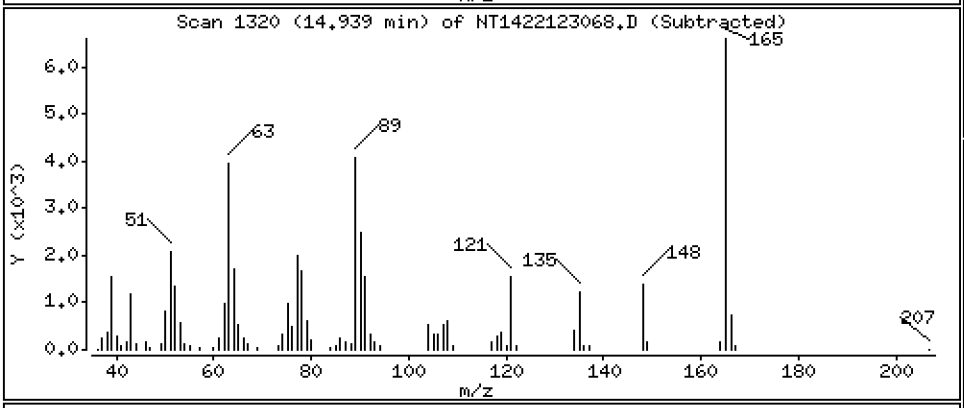
Column phase: ZB-5msi

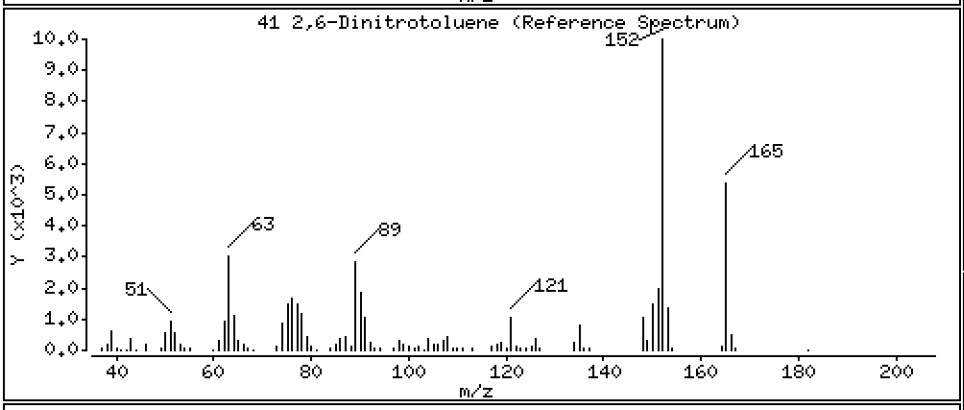
Column diameter: 0.25

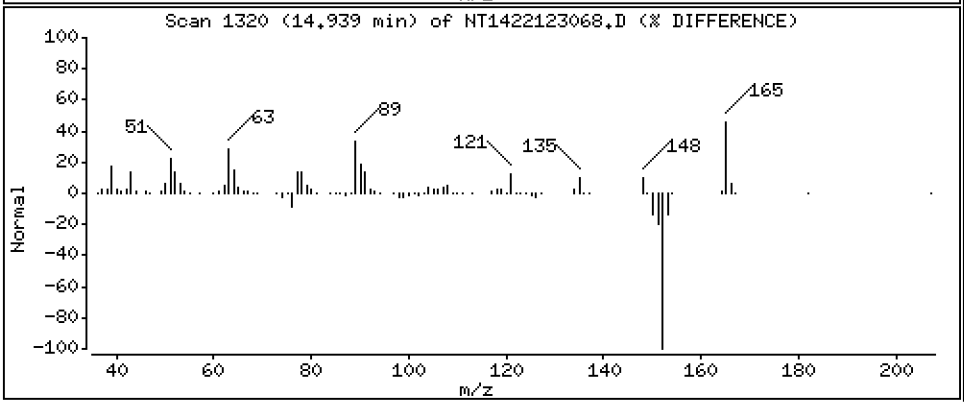
41 2,6-Dinitrotoluene

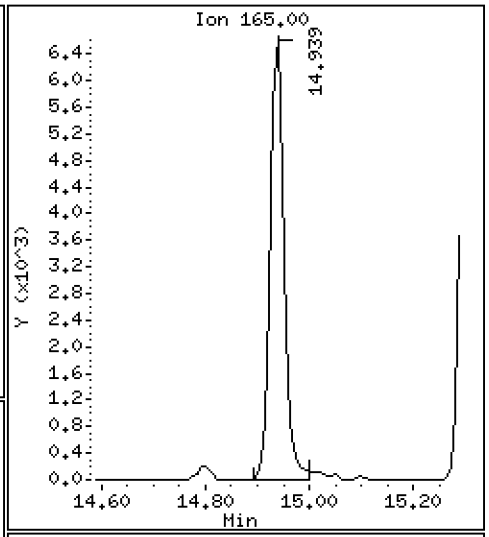
Concentration: 0.8726 ug/mL

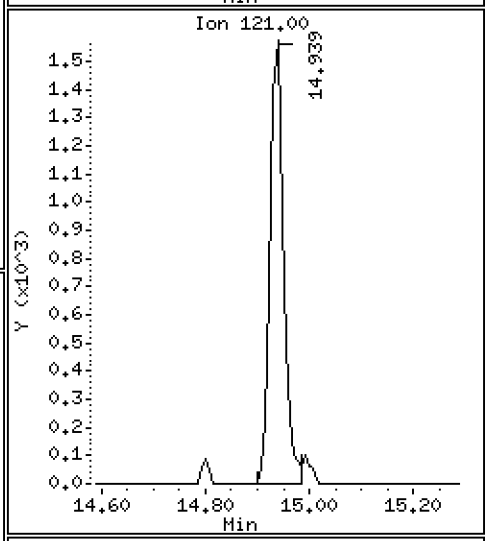


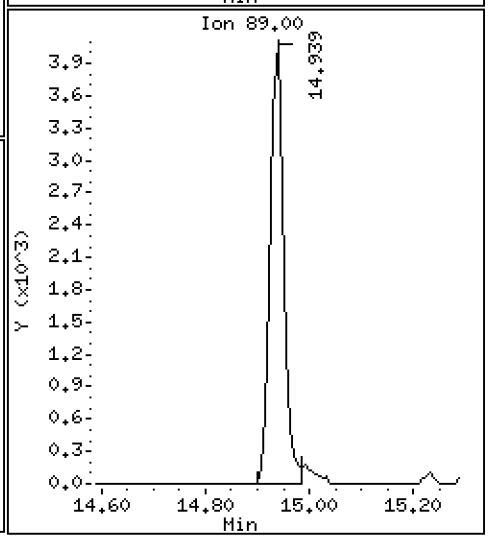












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

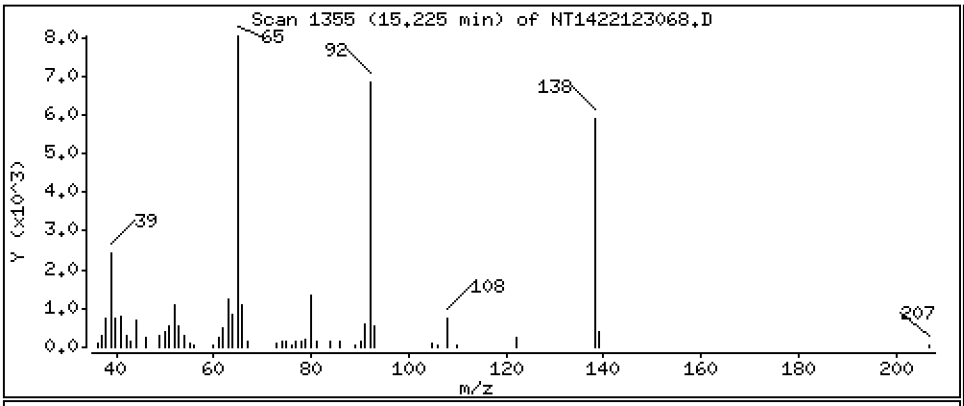
Operator: VTS

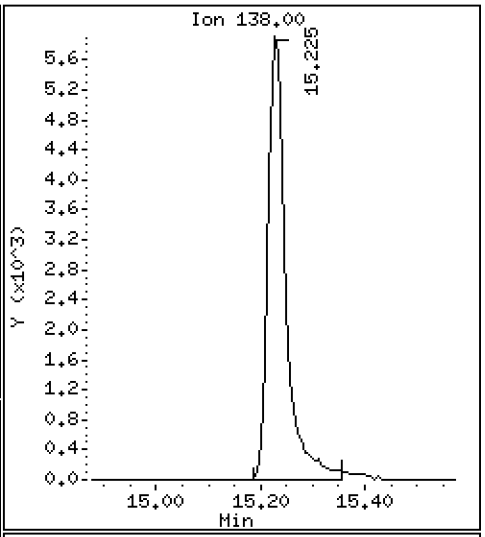
Column phase: ZB-5msi

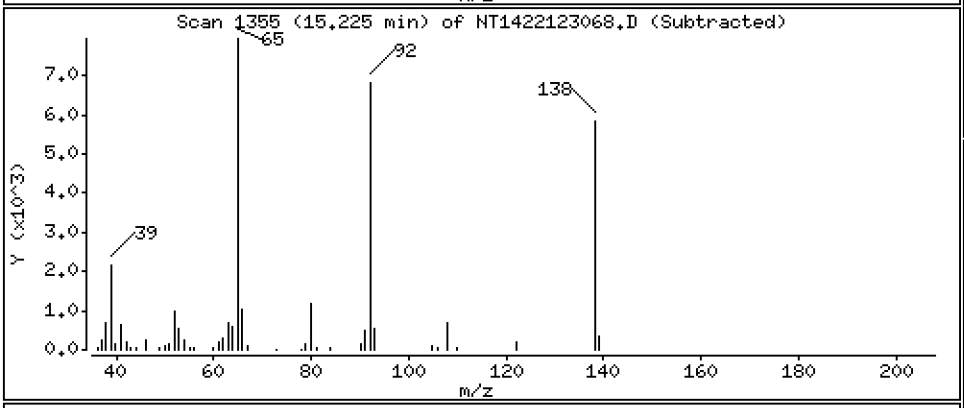
Column diameter: 0.25

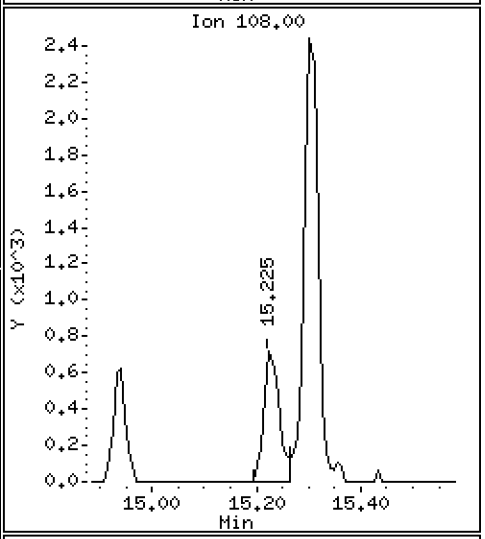
43 3-Nitroaniline

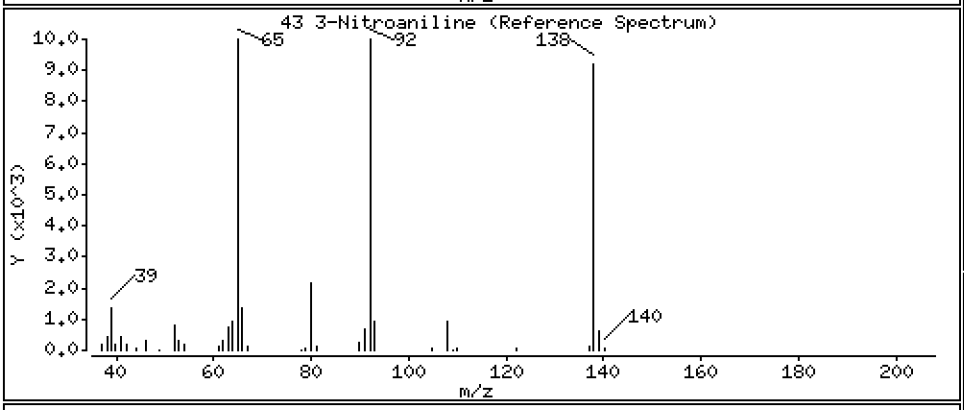
Concentration: 0.8487 ug/mL

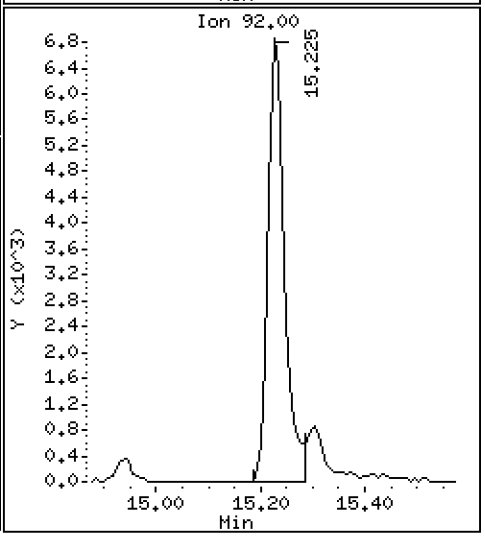


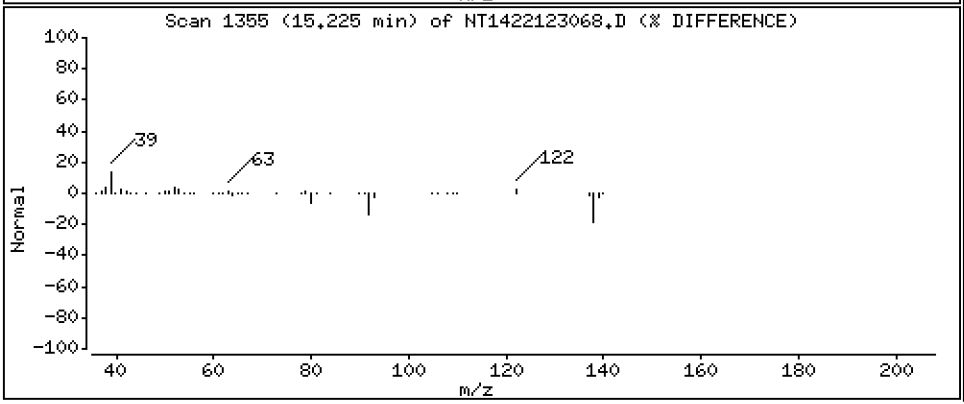












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

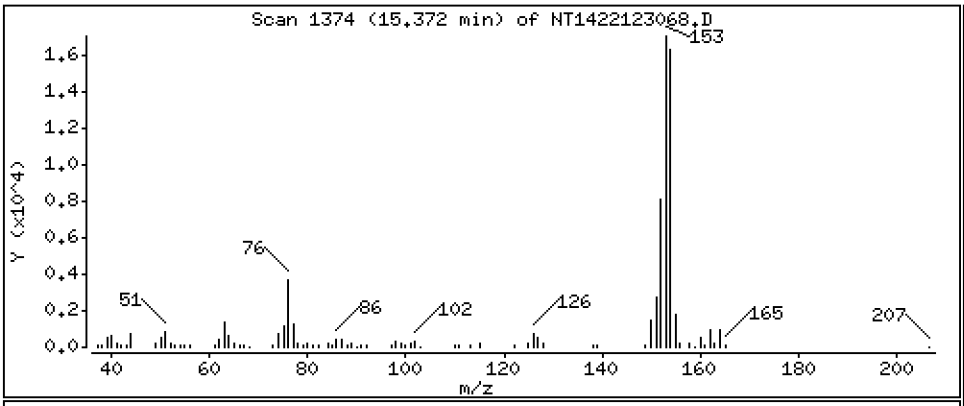
Operator: VTS

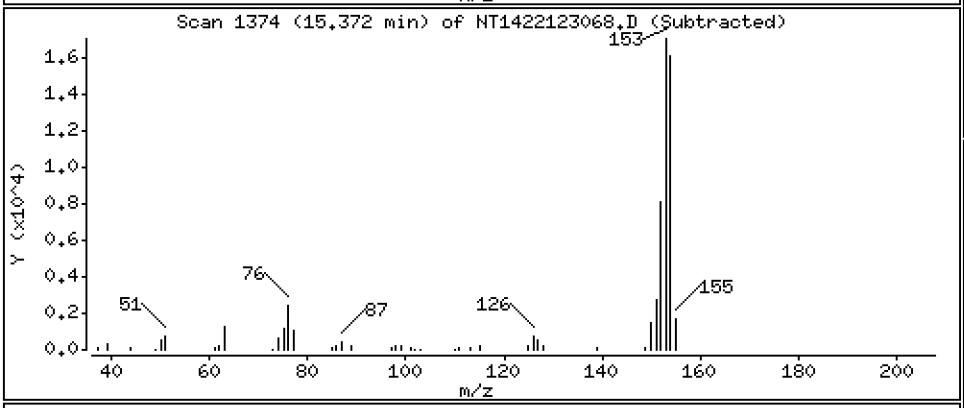
Column phase: ZB-5msi

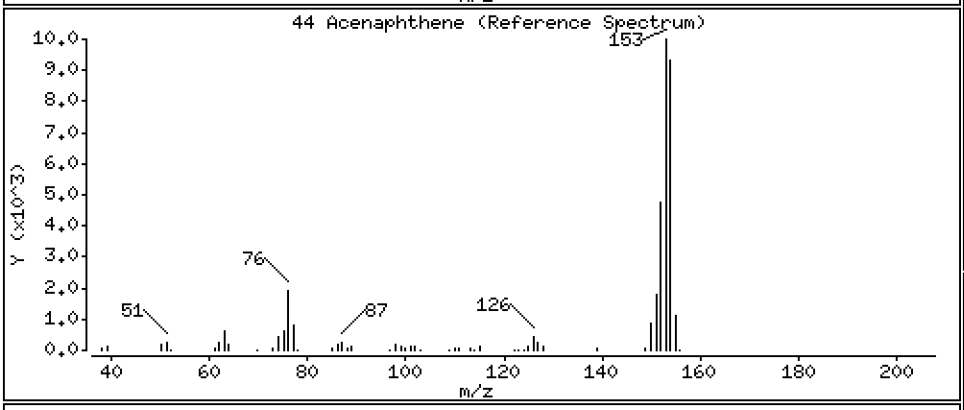
Column diameter: 0.25

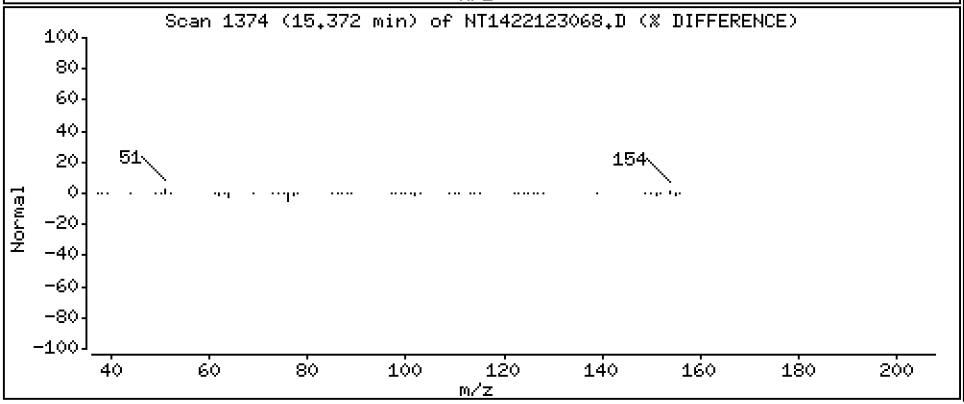
44 Acenaphthene

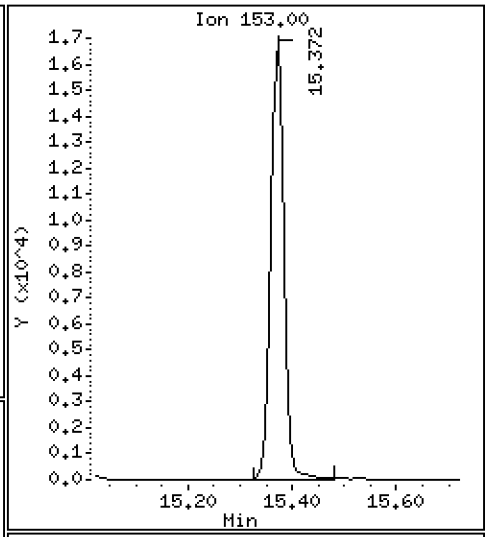
Concentration: 0.4955 ug/mL

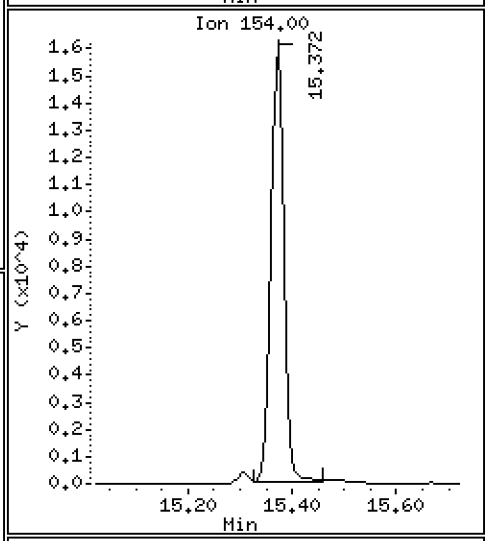


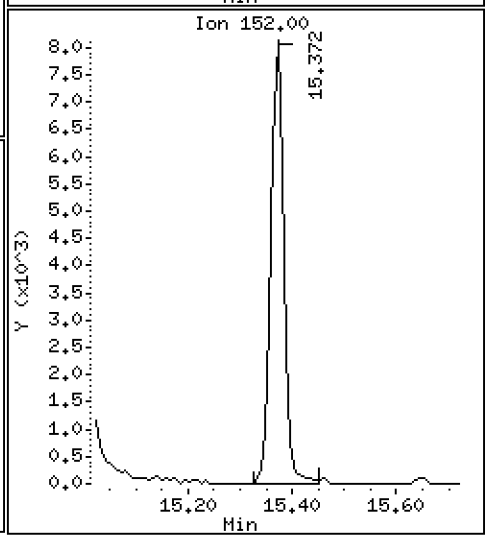












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

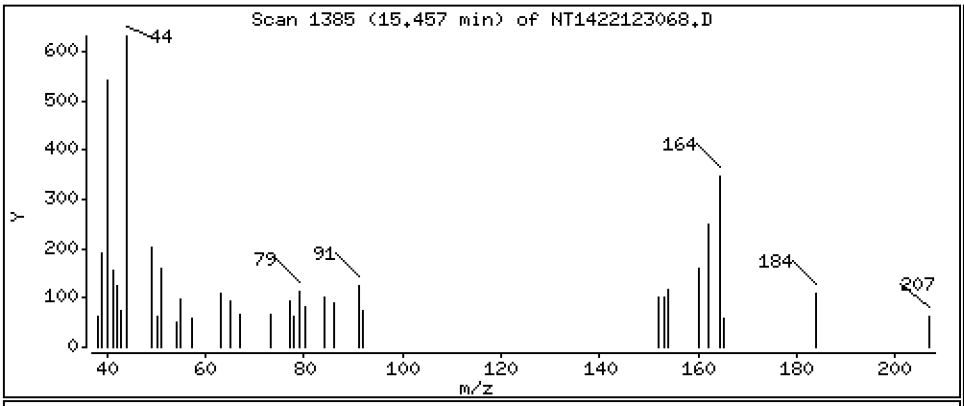
Operator: VTS

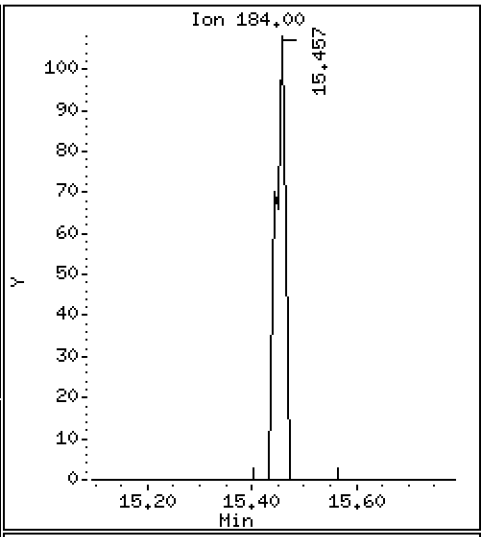
Column phase: ZB-5msi

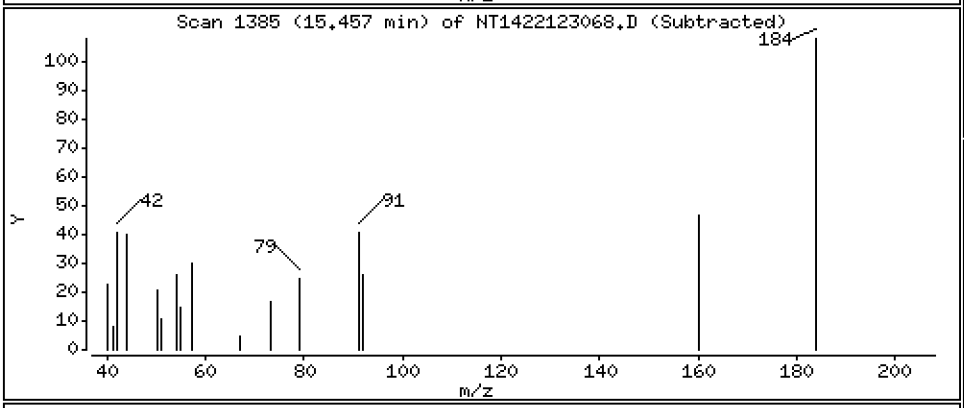
Column diameter: 0.25

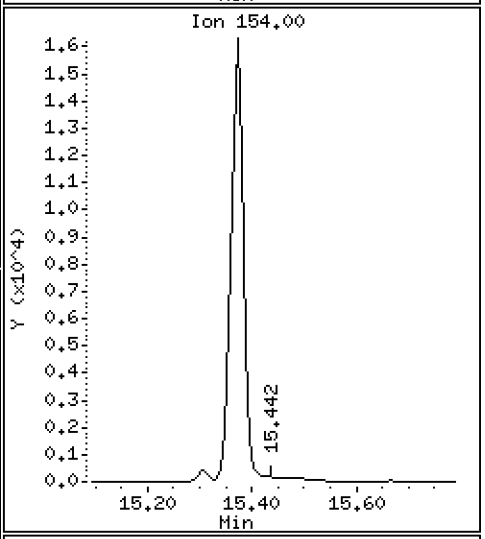
45 2,4-Dinitrophenol

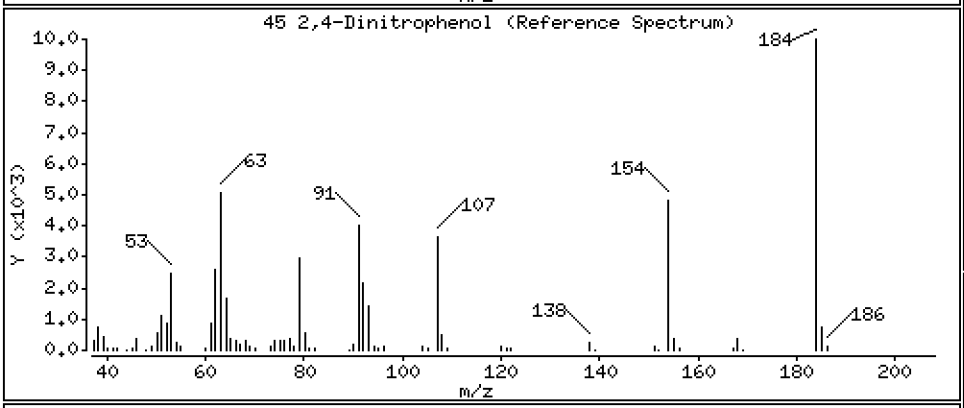
Concentration: 0.01232 ug/mL

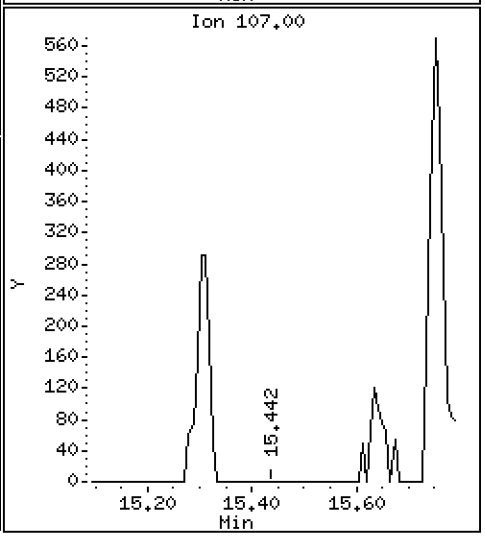


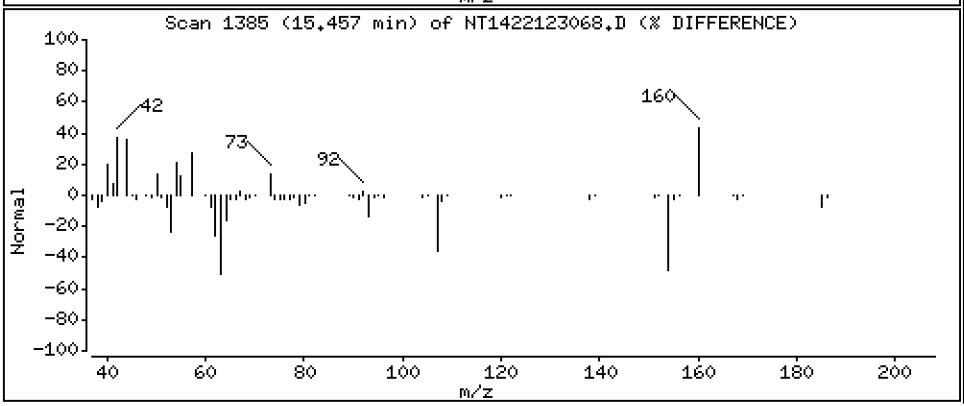












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

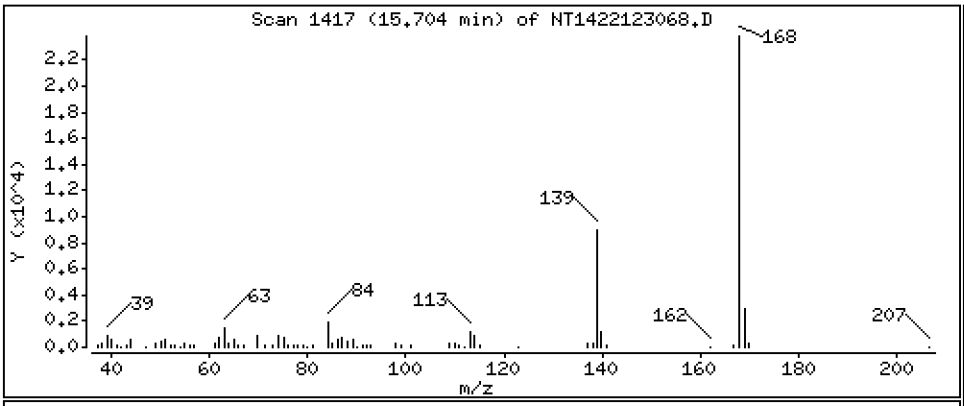
Operator: VTS

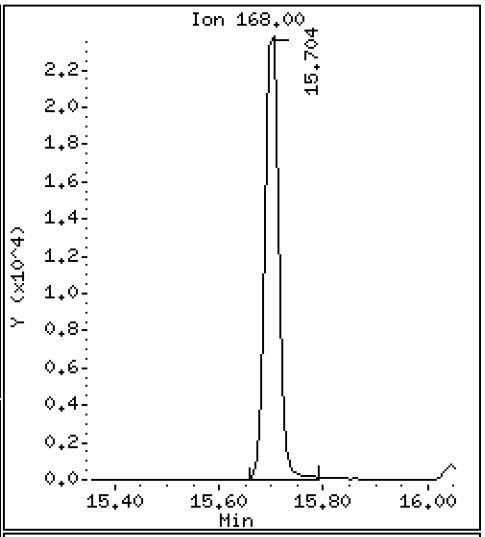
Column phase: ZB-5msi

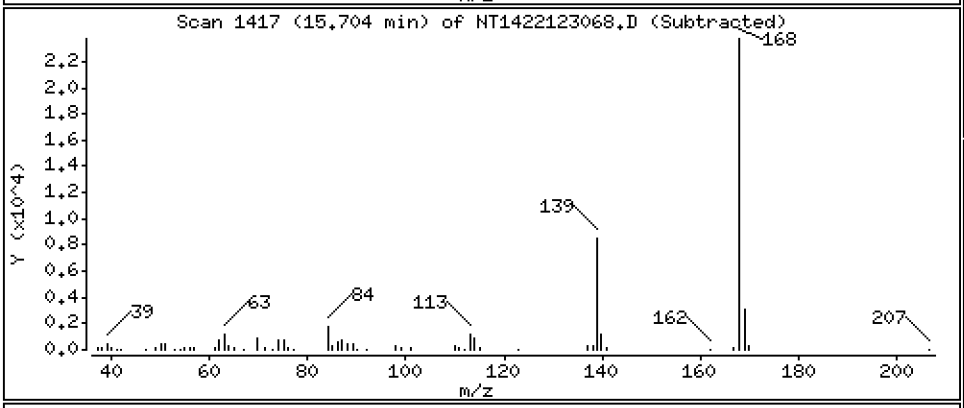
Column diameter: 0.25

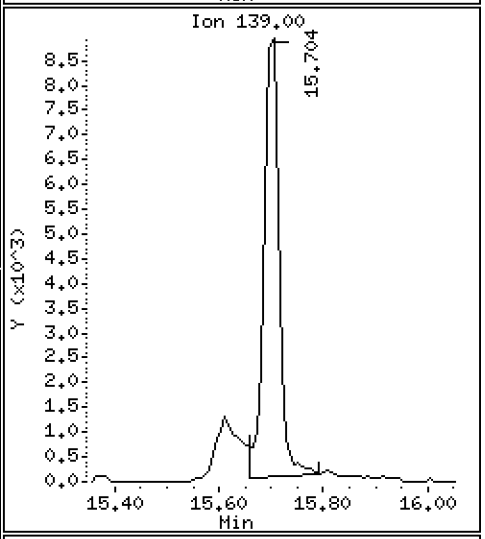
46 Dibenzofuran

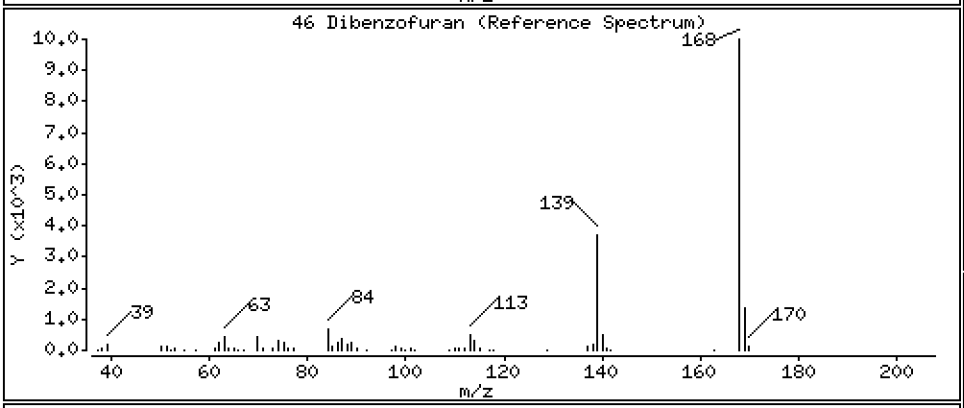
Concentration: 0.4928 ug/mL

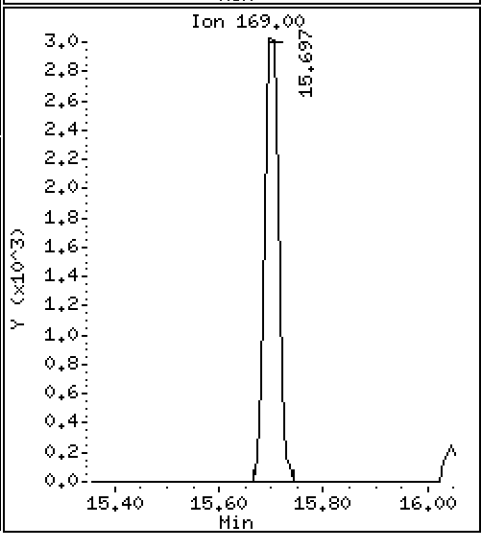


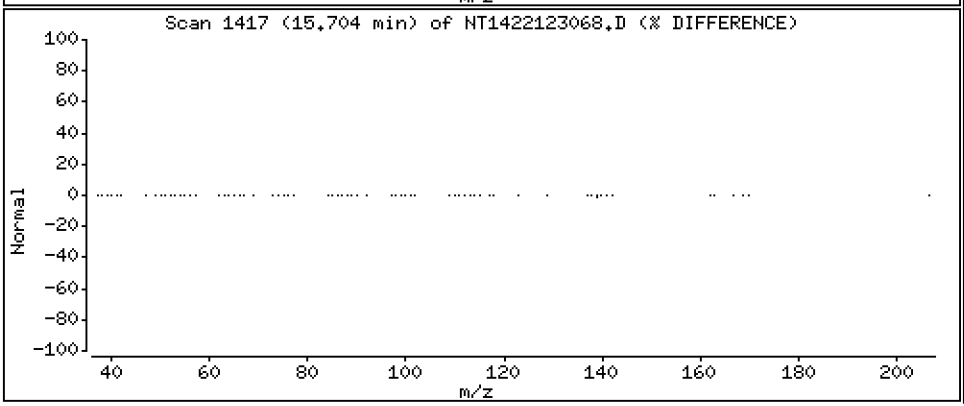












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

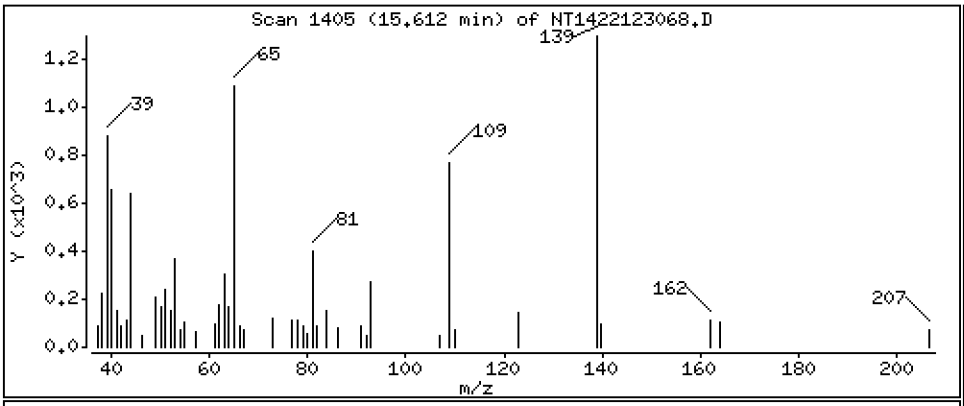
Operator: VTS

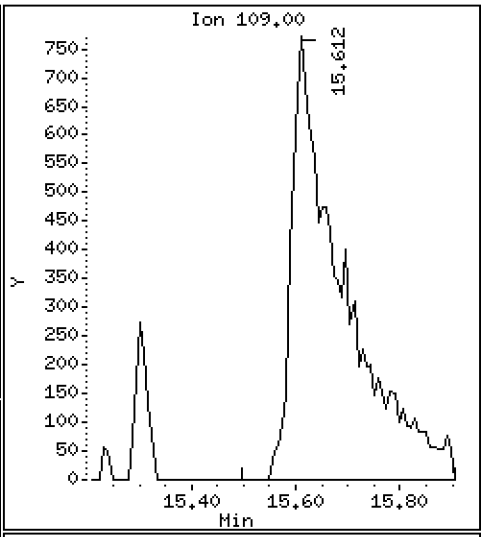
Column phase: ZB-5msi

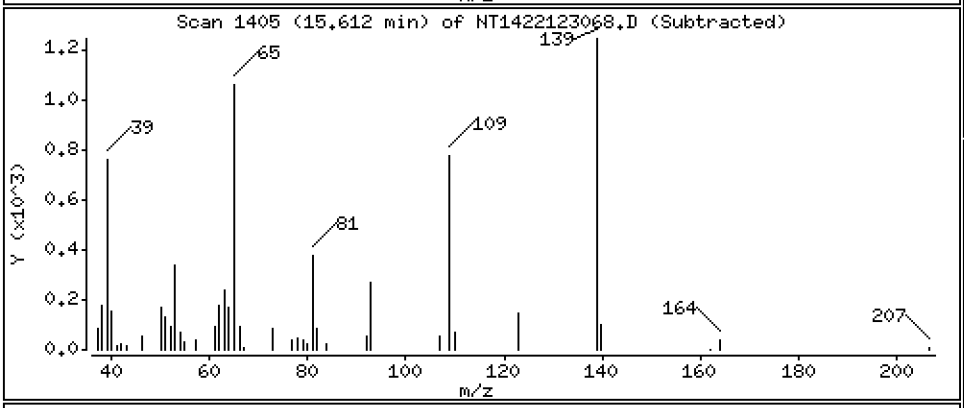
Column diameter: 0.25

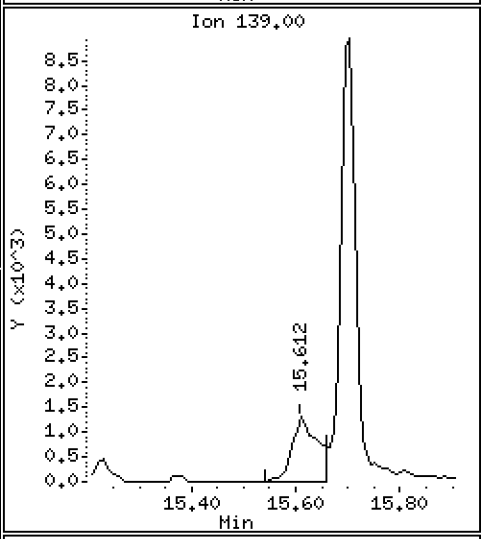
47 4-Nitrophenol

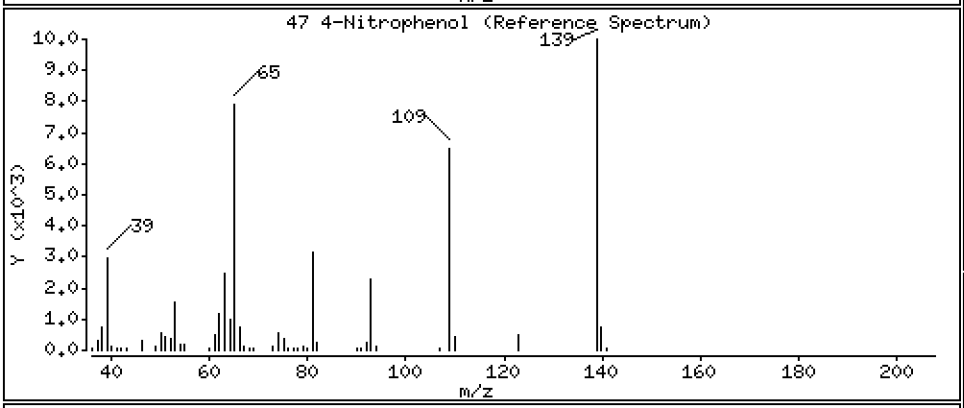
Concentration: 0.6719 ug/mL

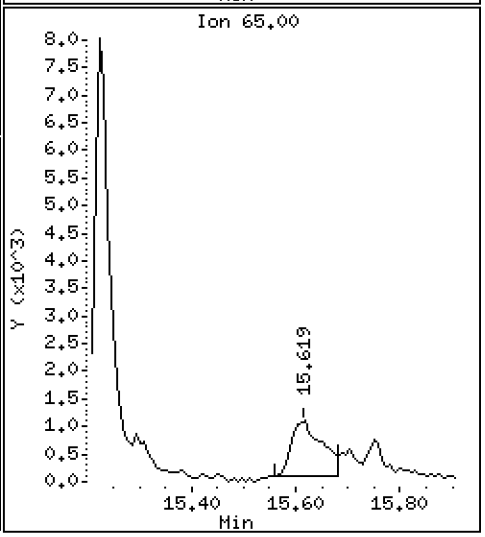


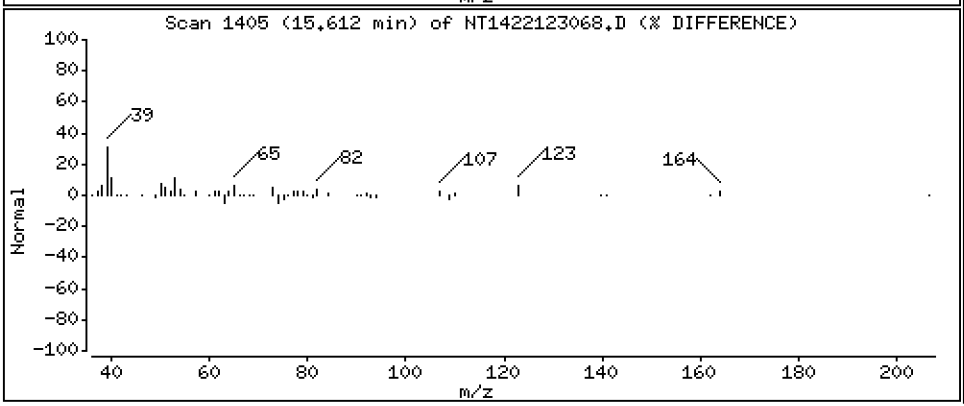












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

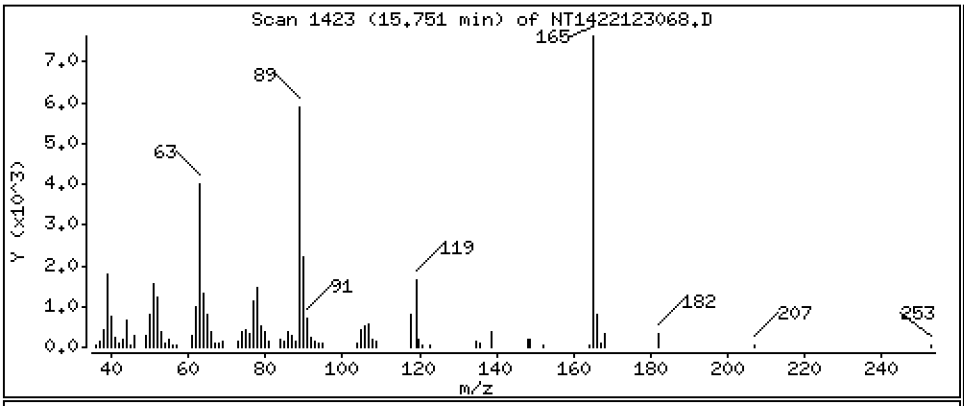
Operator: VTS

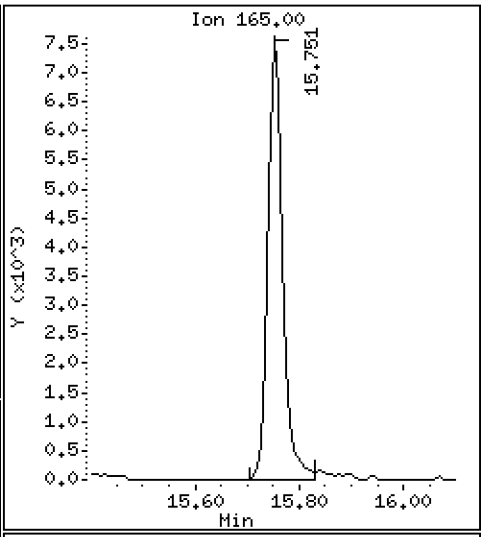
Column phase: ZB-5msi

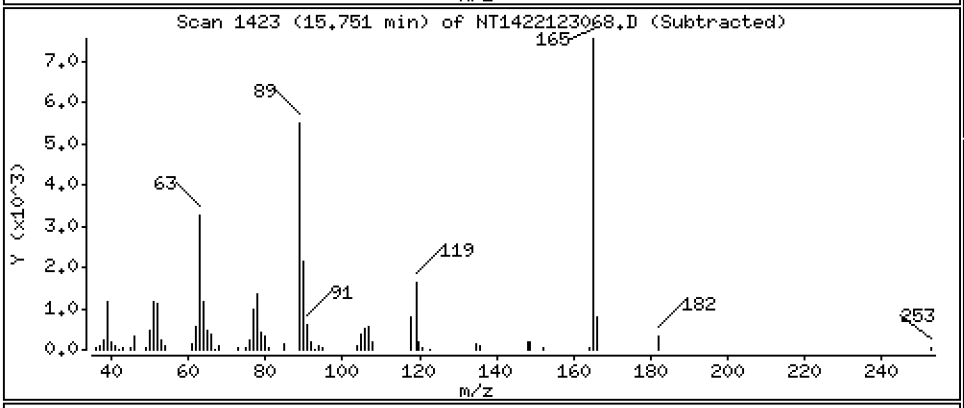
Column diameter: 0.25

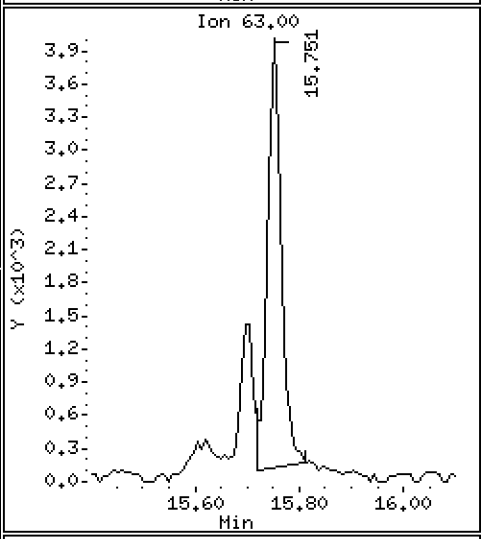
48 2,4-Dinitrotoluene

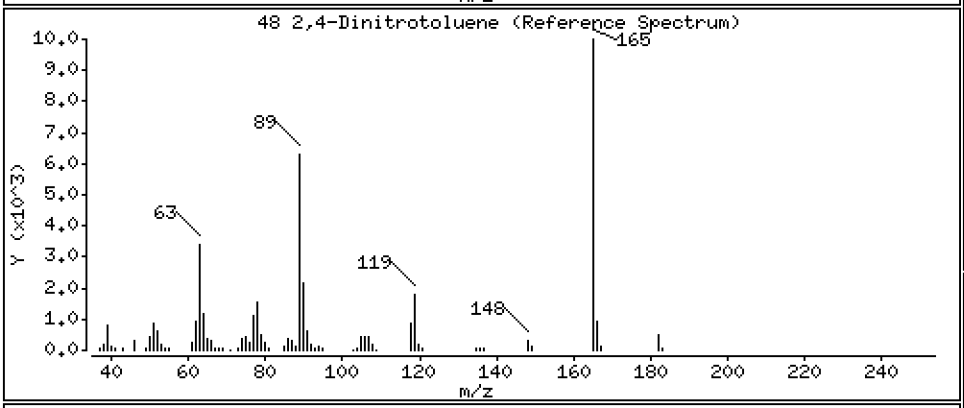
Concentration: 0.7780 ug/mL

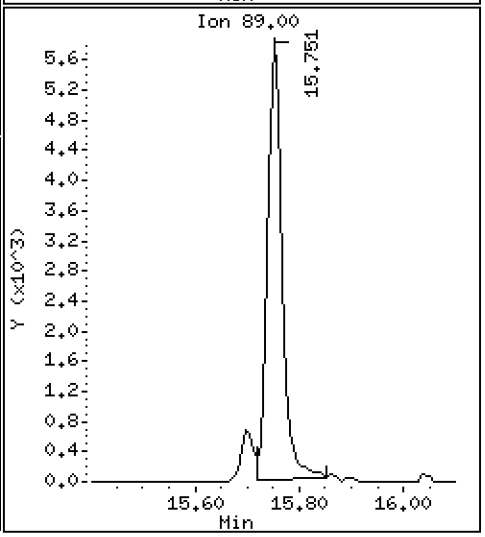


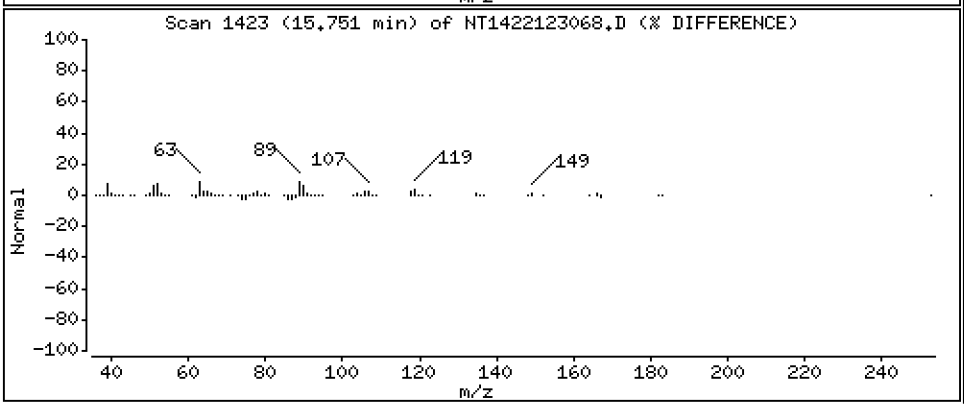












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

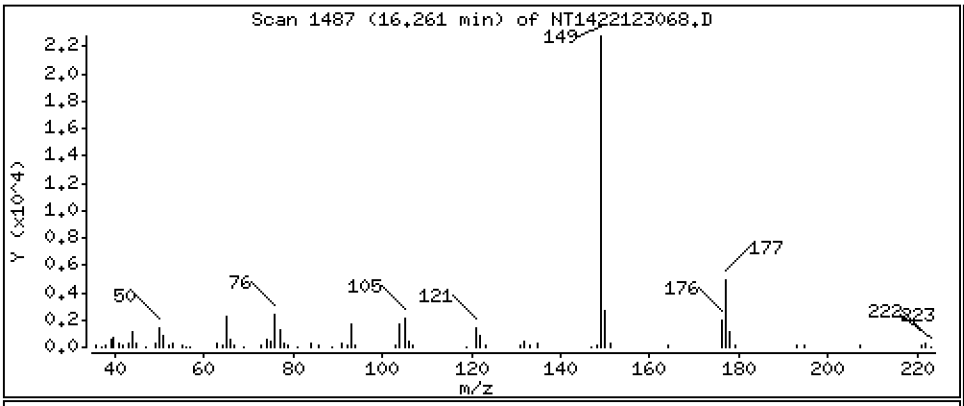
Operator: VTS

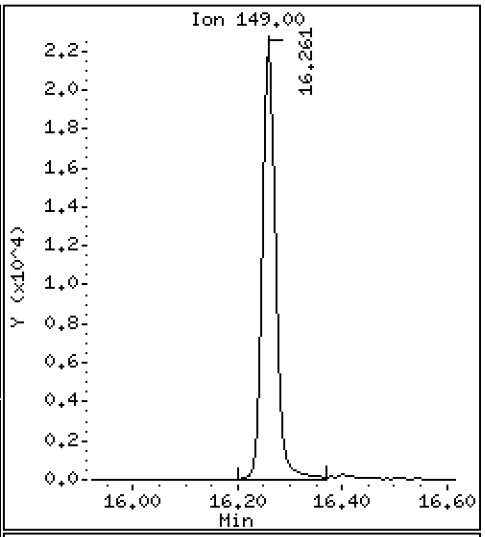
Column phase: ZB-5msi

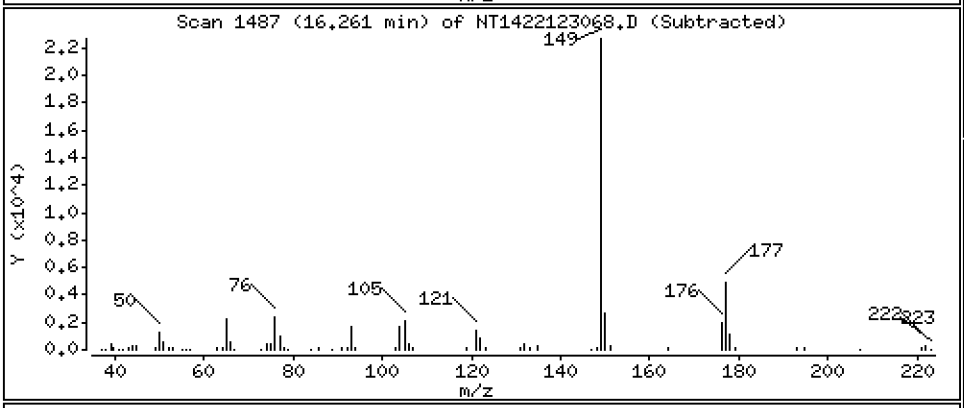
Column diameter: 0.25

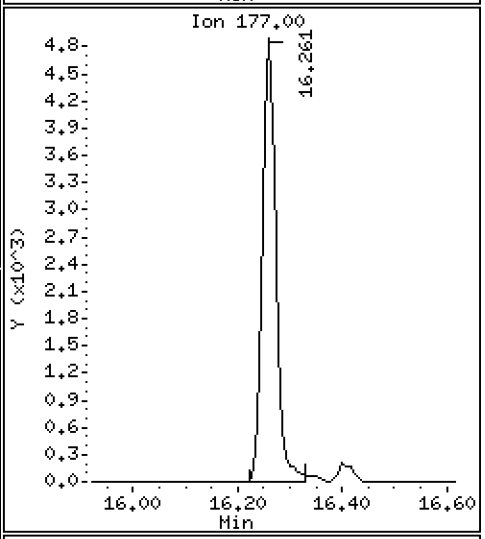
50 Diethylphthalate

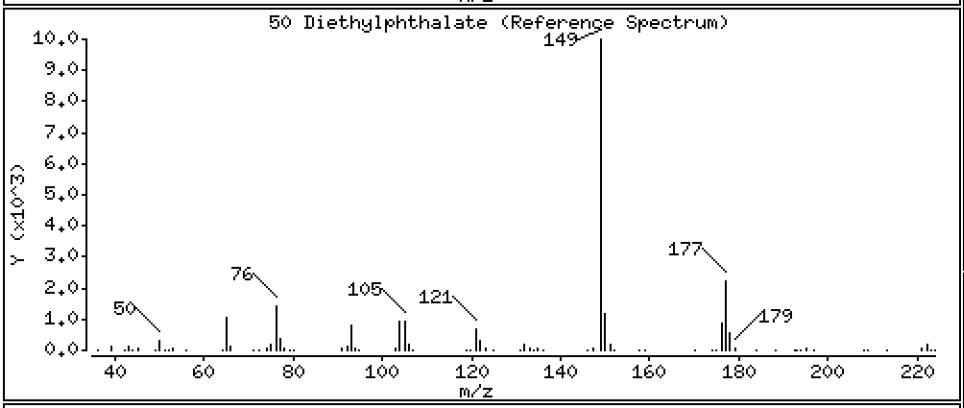
Concentration: 0.5719 ug/mL

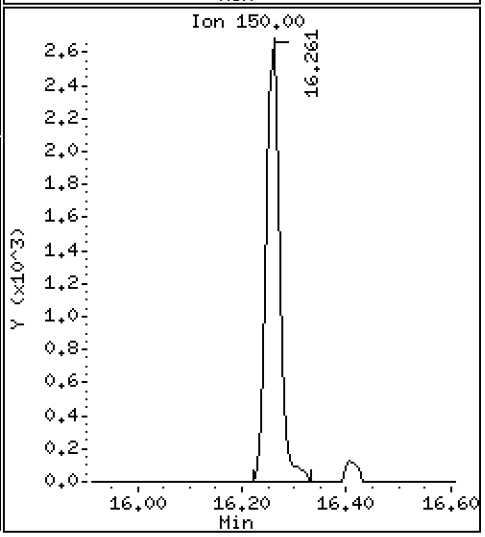


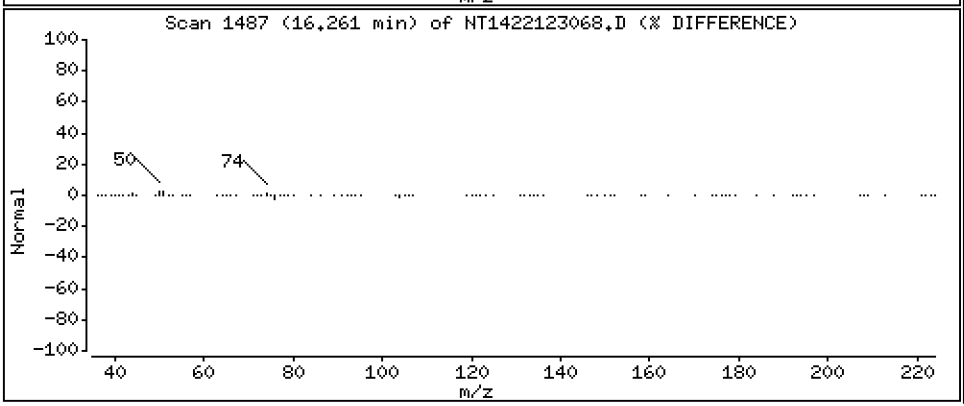












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

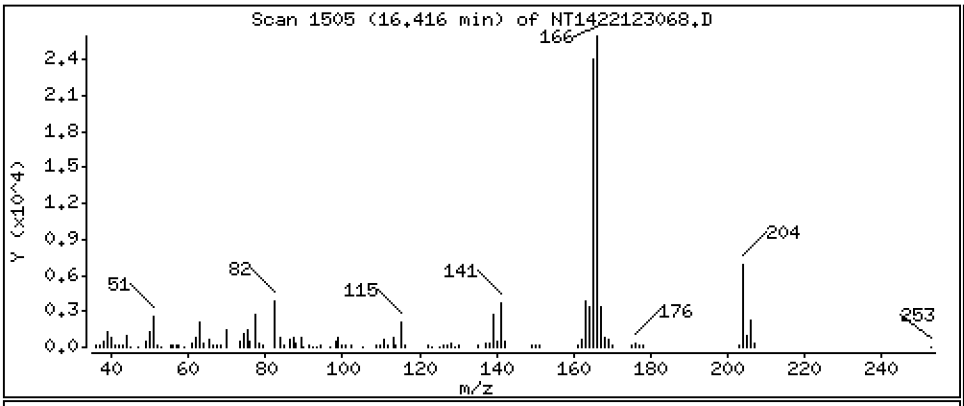
Operator: VTS

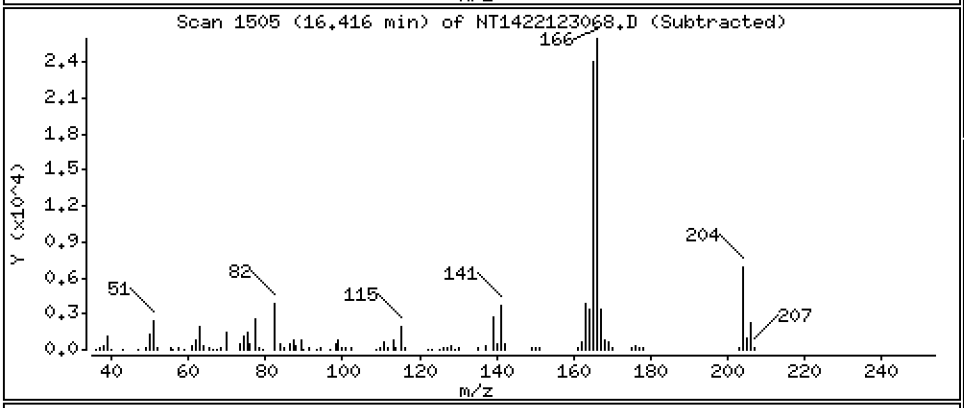
Column phase: ZB-5msi

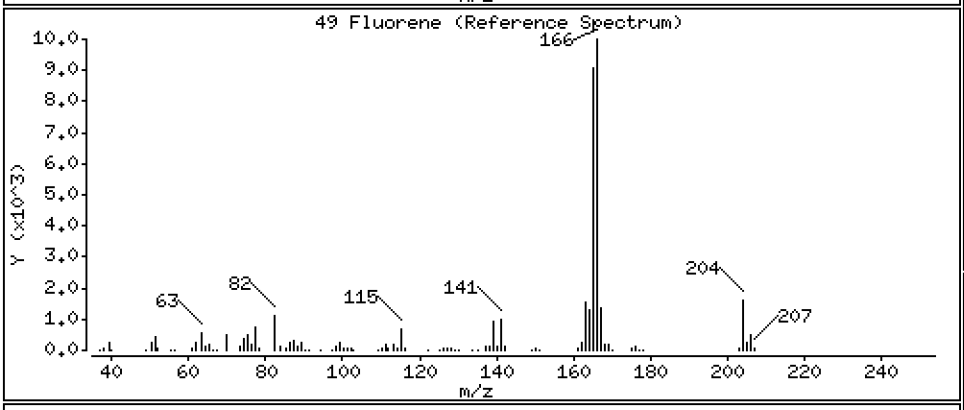
Column diameter: 0.25

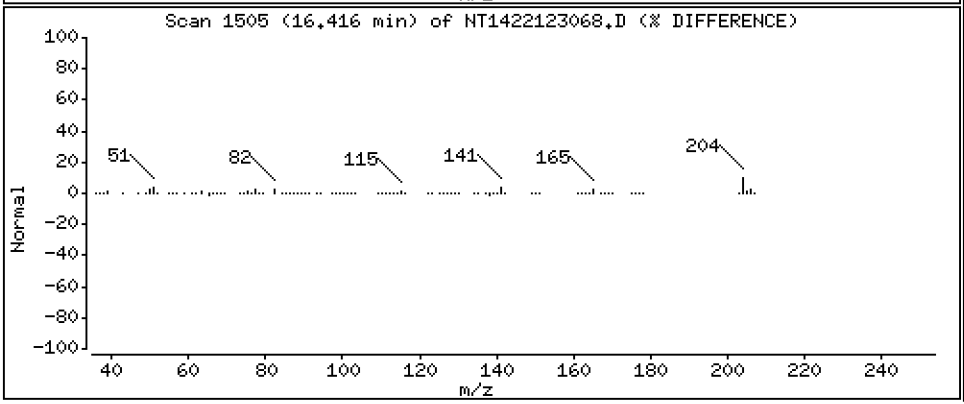
49 Fluorene

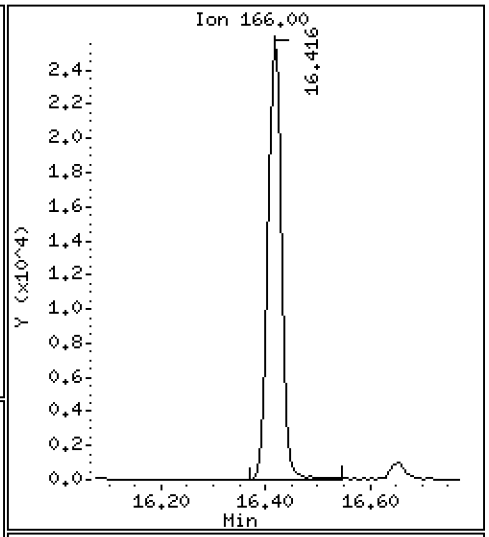
Concentration: 0.4880 ug/mL

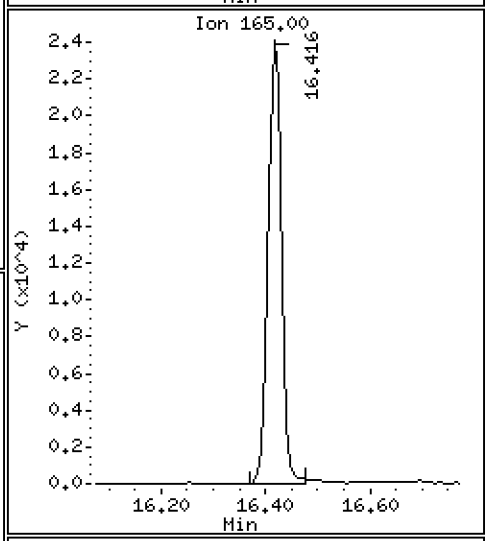


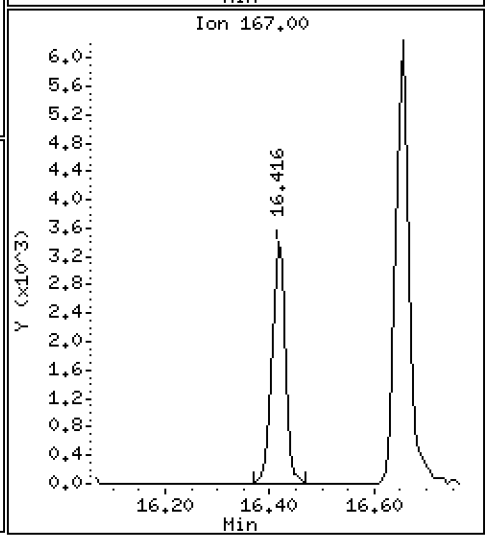












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

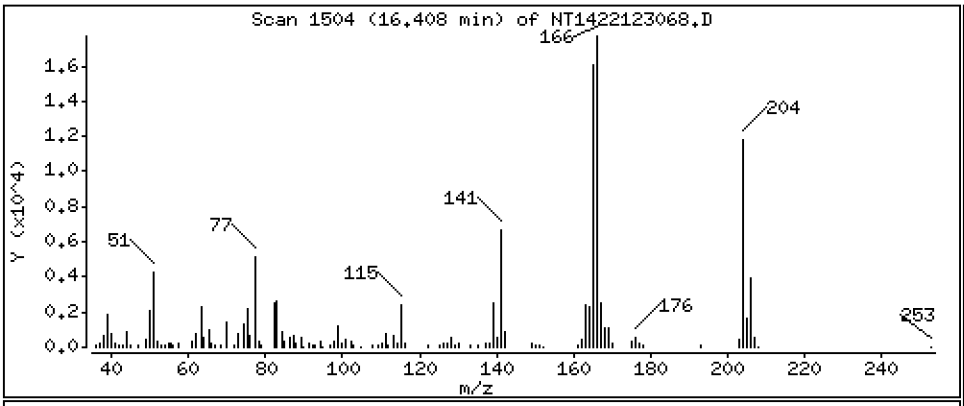
Operator: VTS

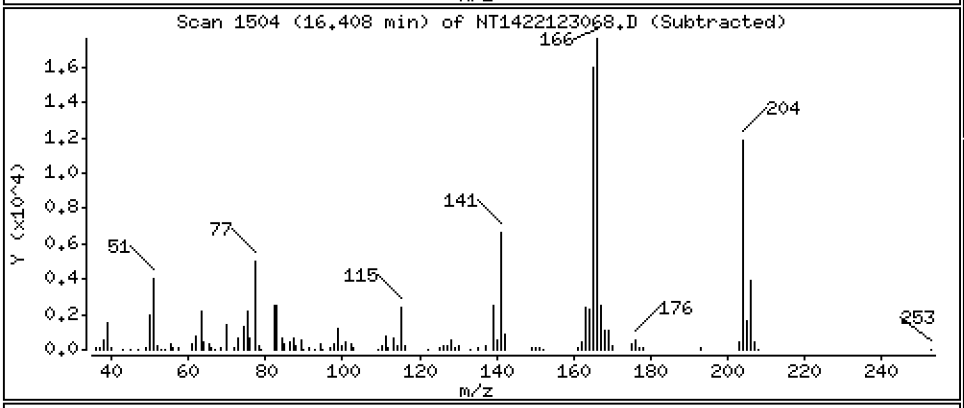
Column phase: ZB-5msi

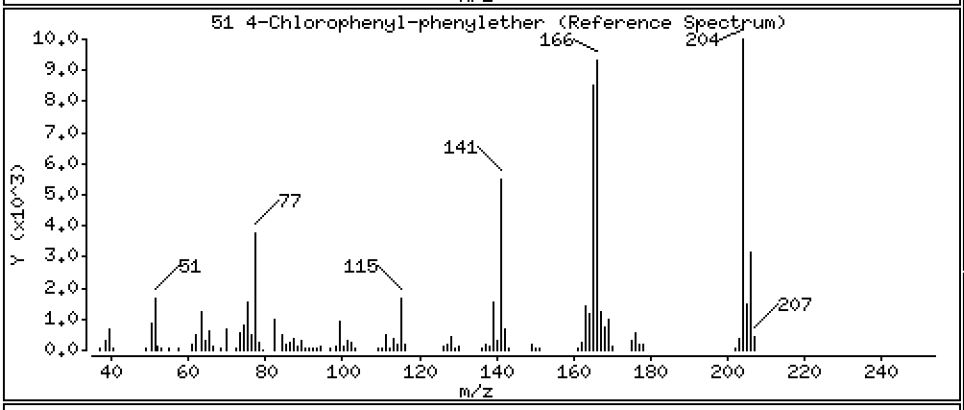
Column diameter: 0.25

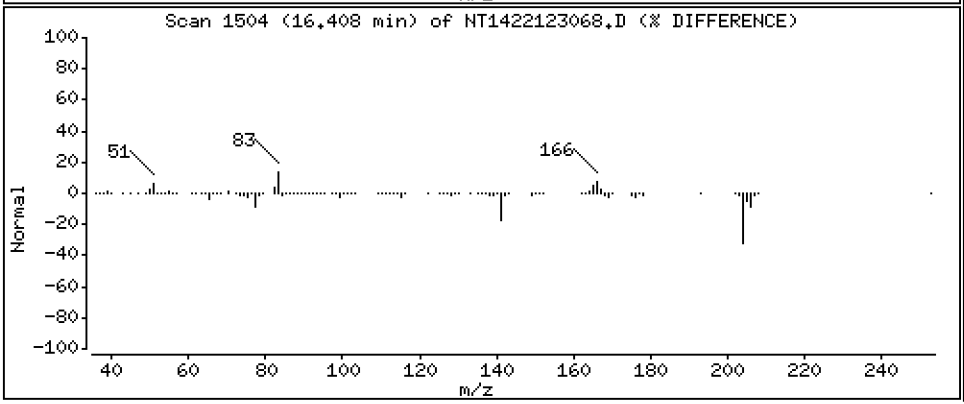
51 4-Chlorophenyl-phenylether

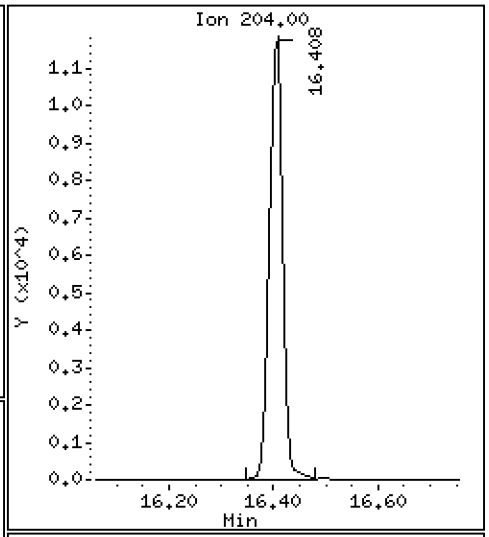
Concentration: 0.5123 ug/mL

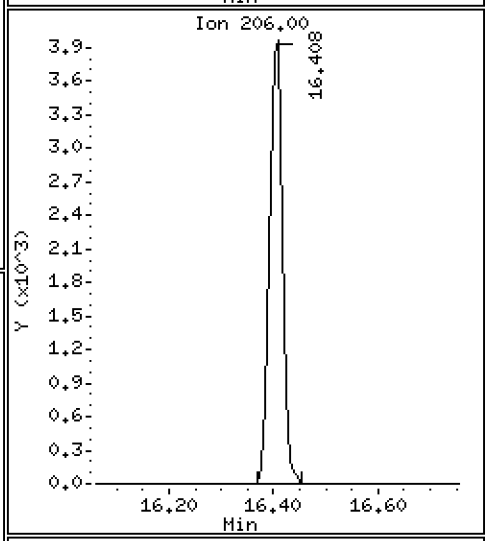


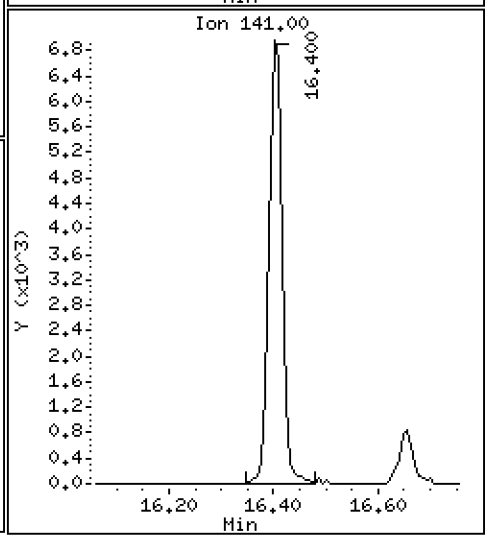












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

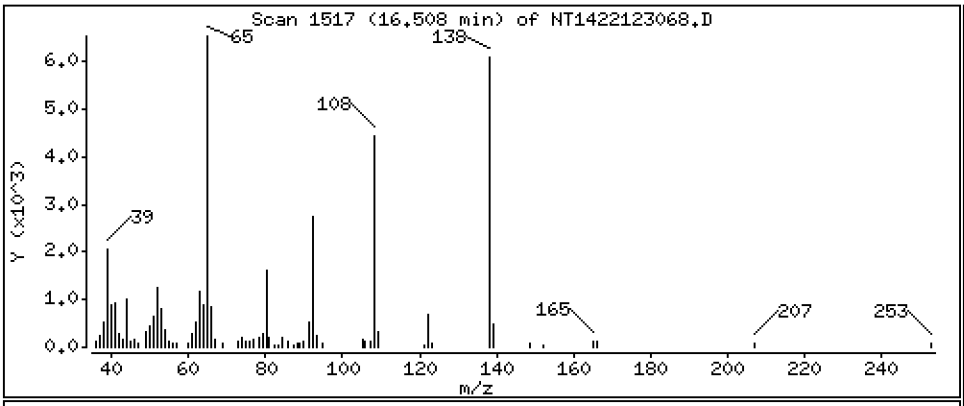
Operator: VTS

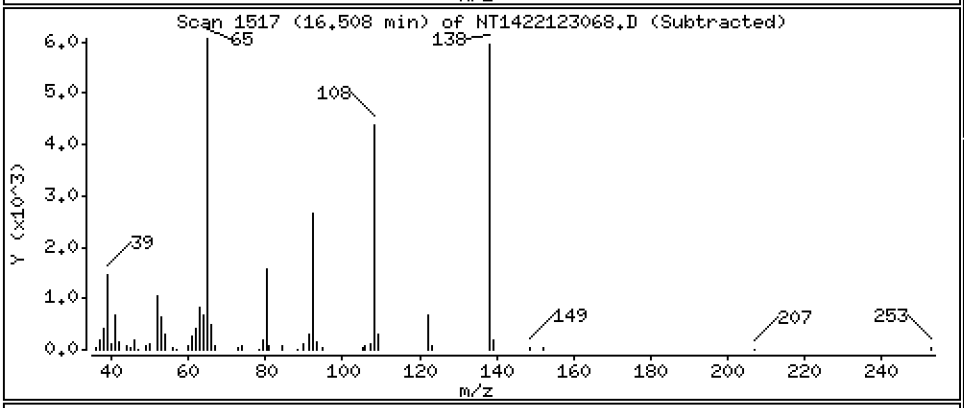
Column phase: ZB-5msi

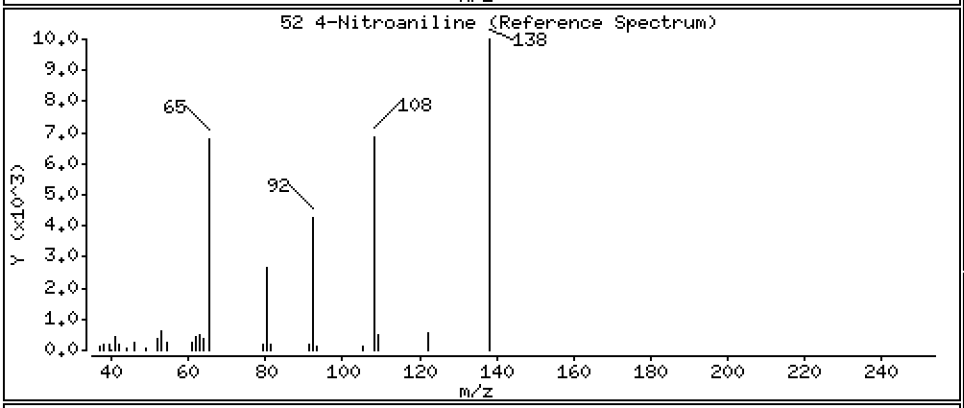
Column diameter: 0.25

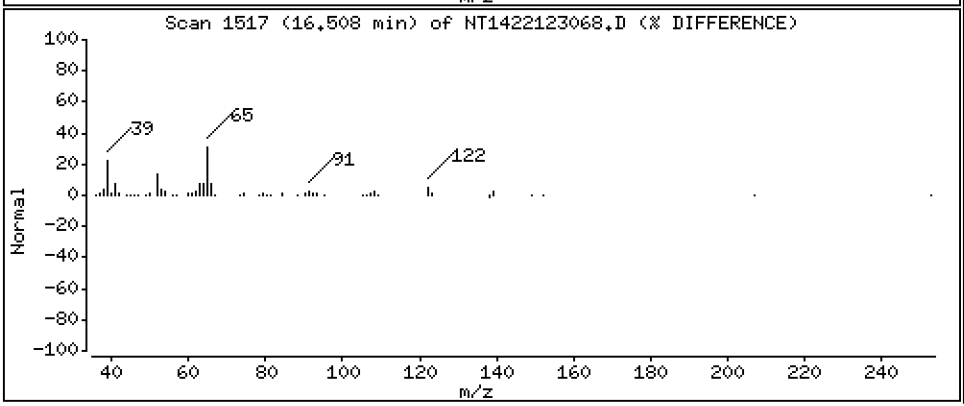
52 4-Nitroaniline

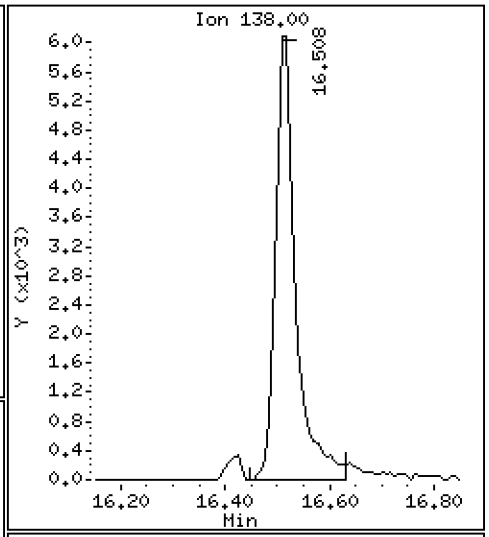
Concentration: 0.8313 ug/mL

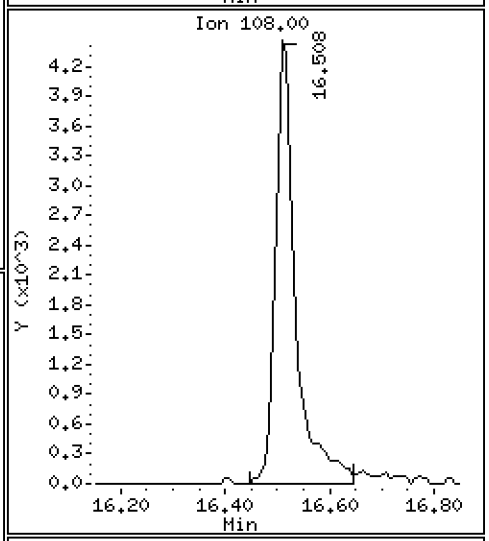


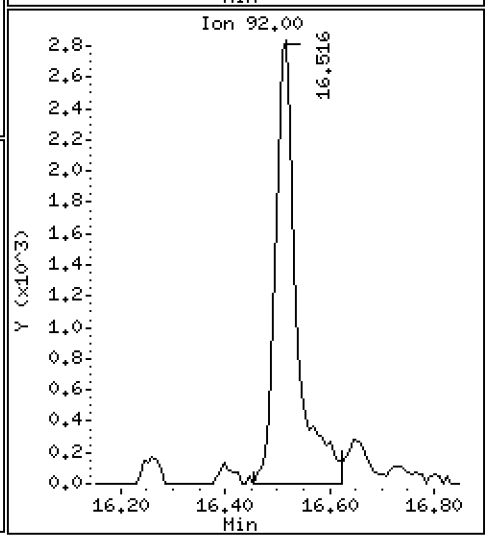












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

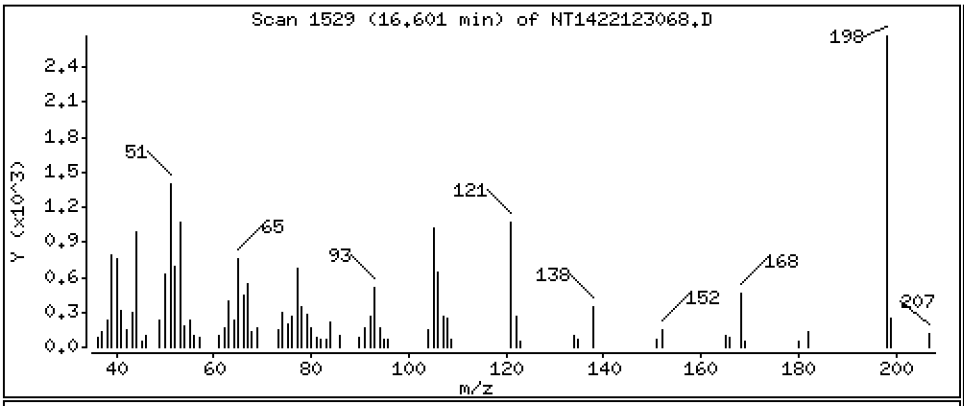
Operator: VTS

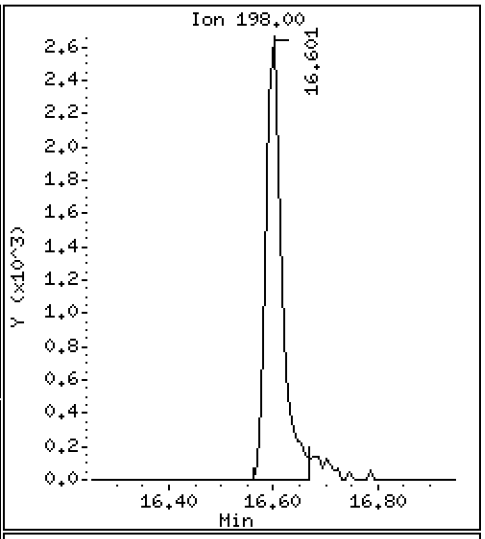
Column phase: ZB-5msi

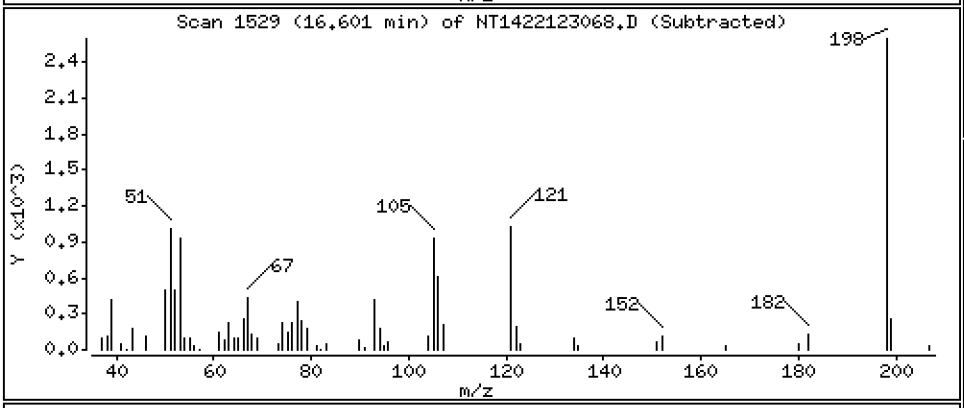
Column diameter: 0.25

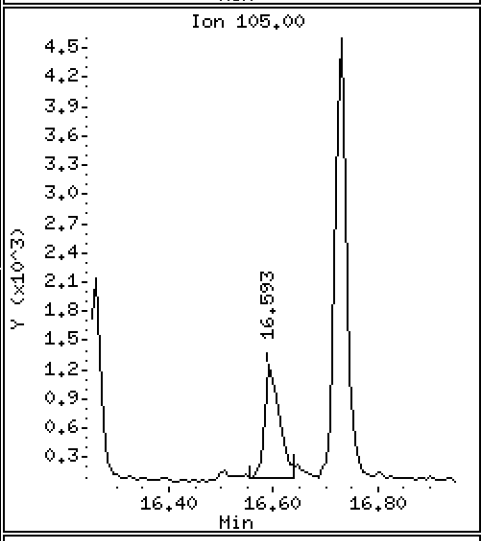
53 4,6-Dinitro-2-methylphenol

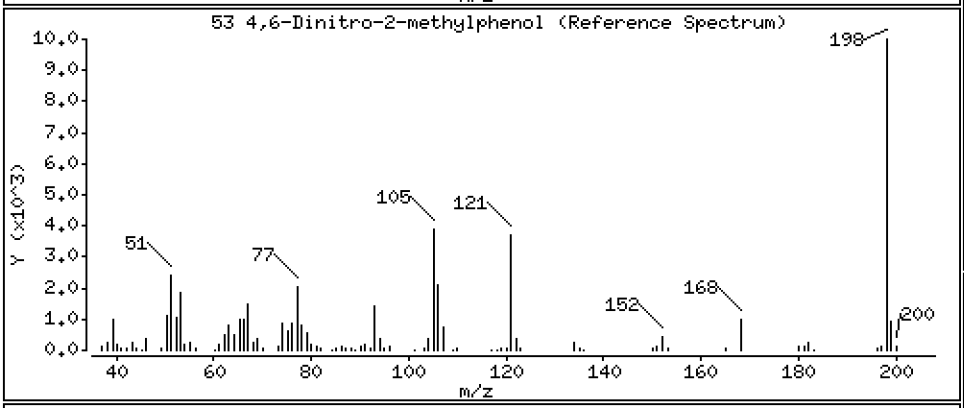
Concentration: 0.3826 ug/mL

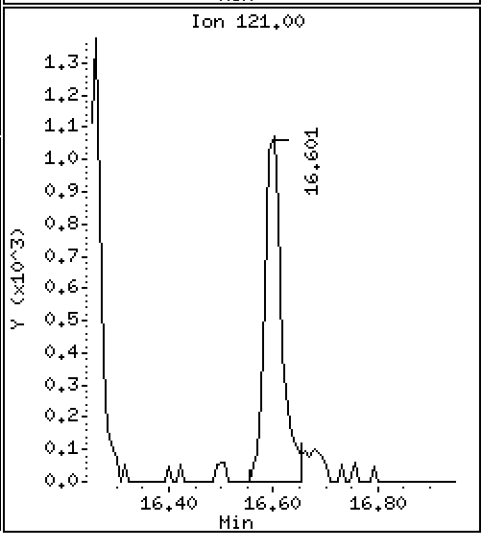


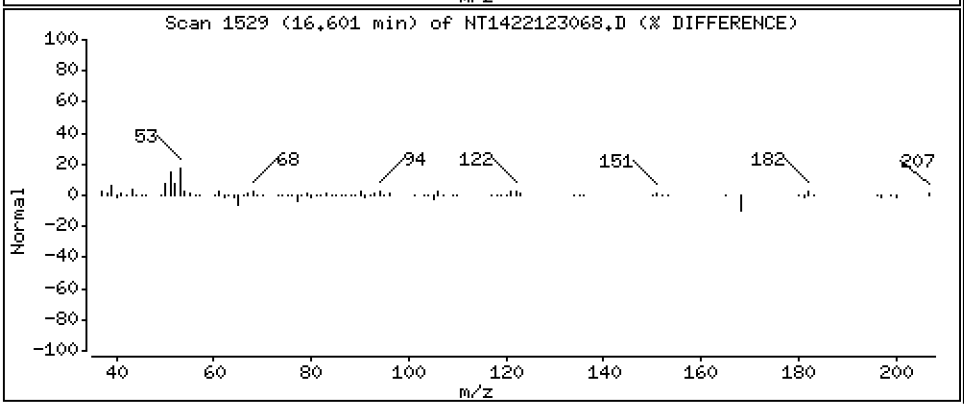












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

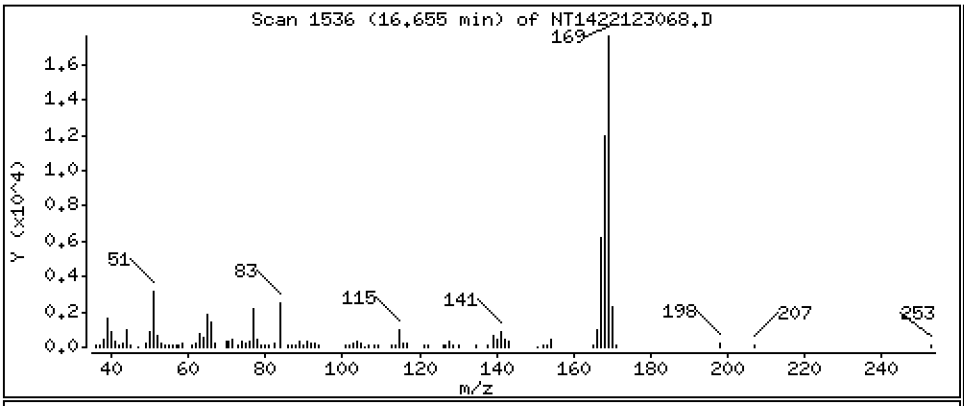
Operator: VTS

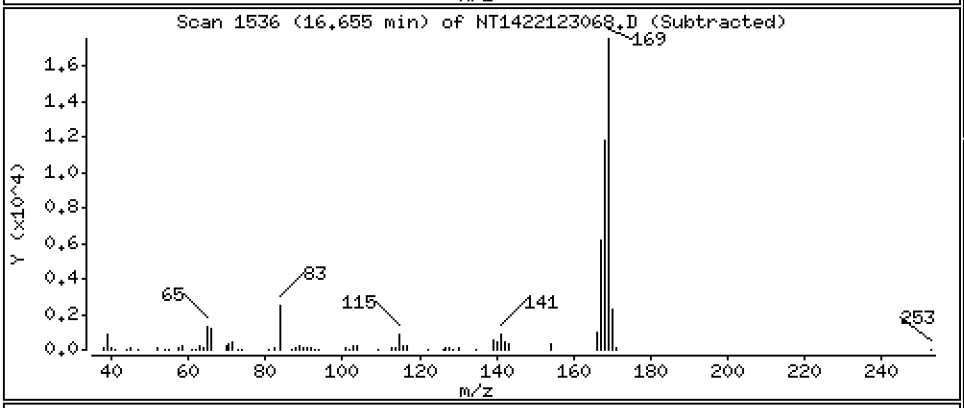
Column phase: ZB-5msi

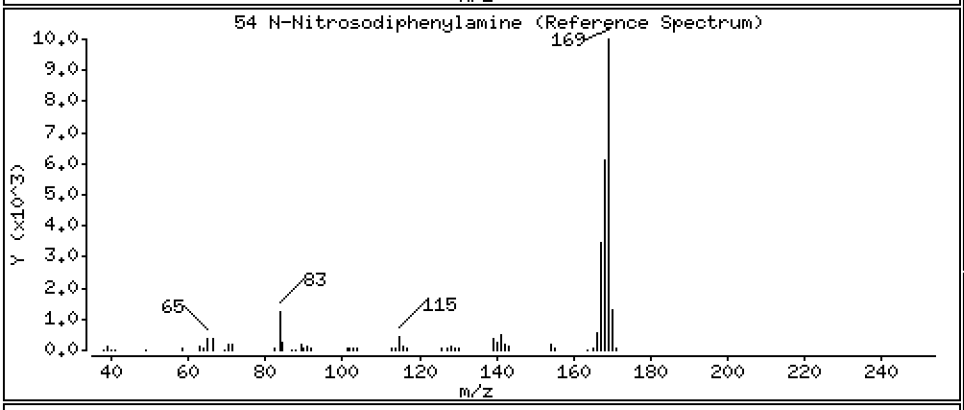
Column diameter: 0.25

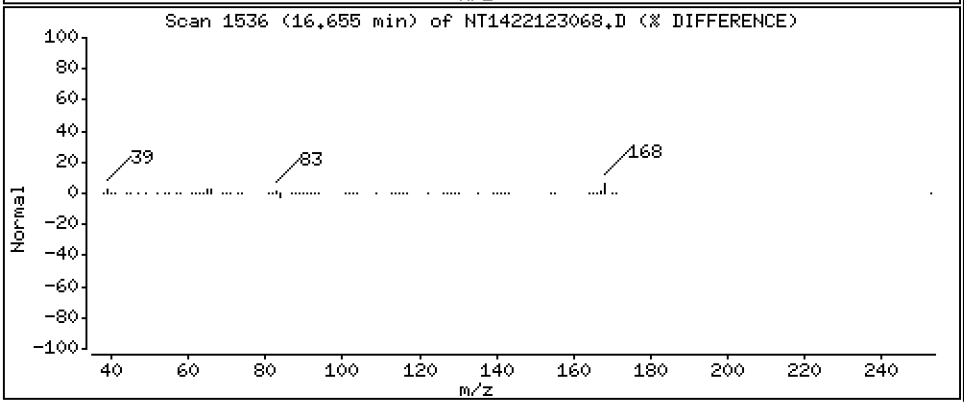
54 N-Nitrosodiphenylamine

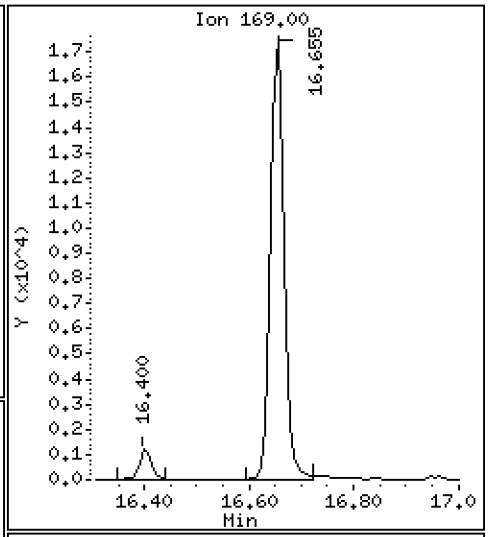
Concentration: 0.5115 ug/mL

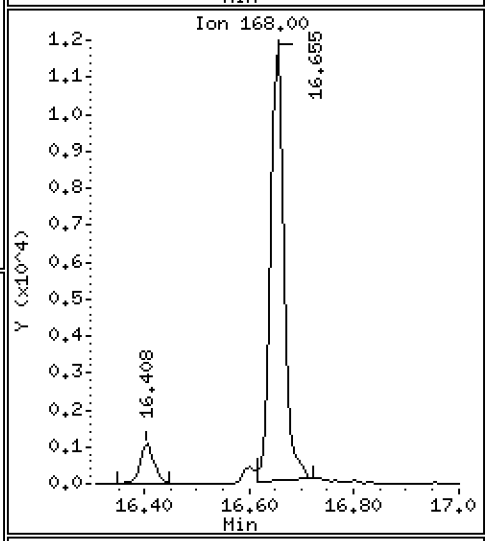


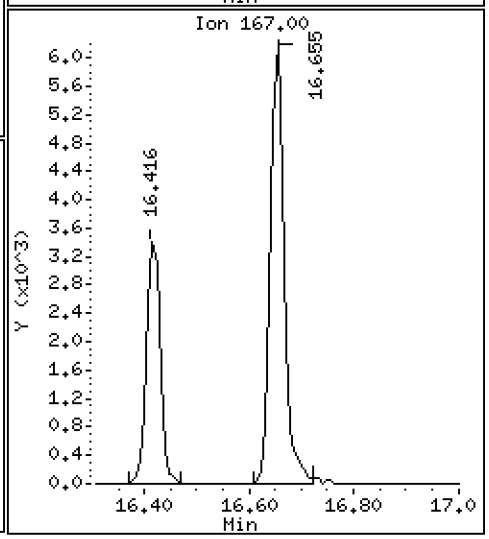












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

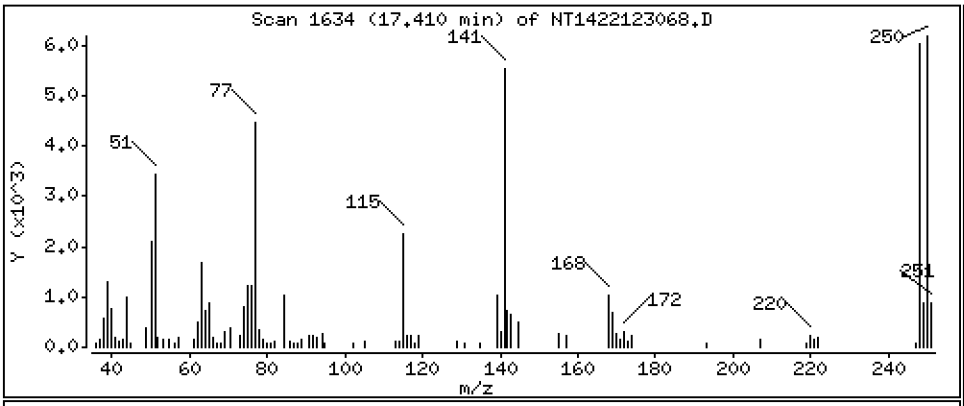
Operator: VTS

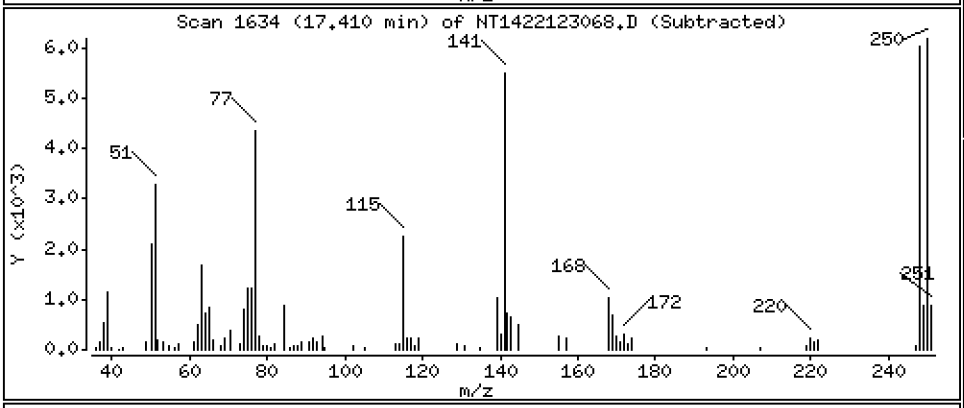
Column phase: ZB-5msi

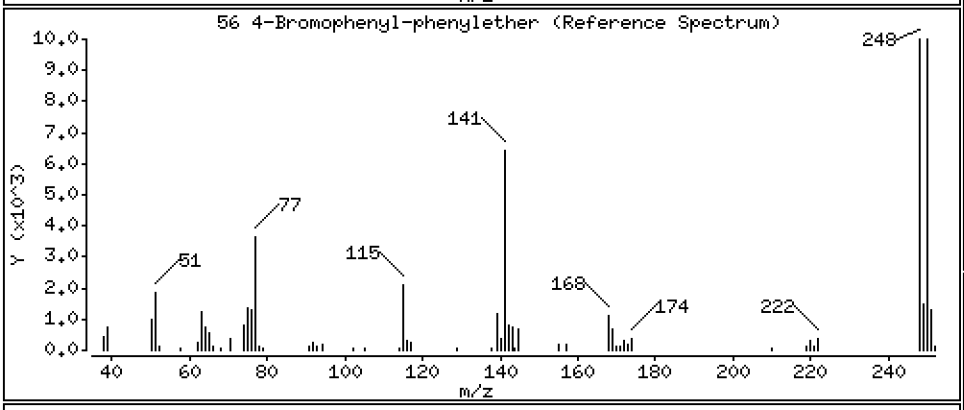
Column diameter: 0.25

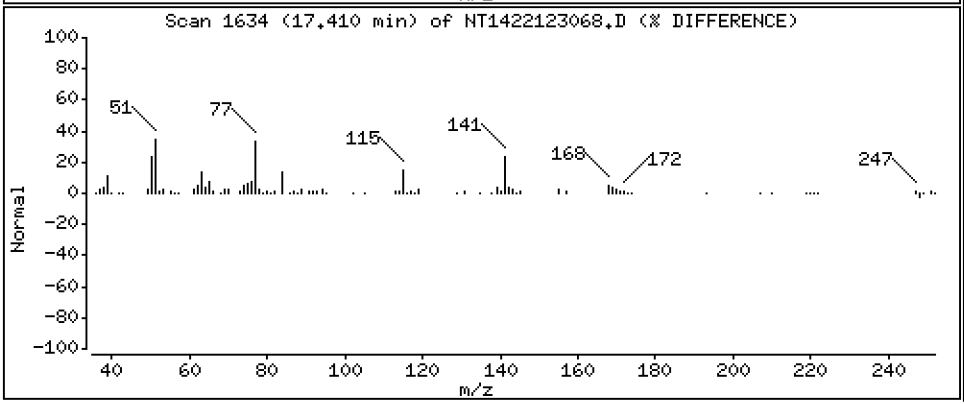
56 4-Bromophenyl-phenylether

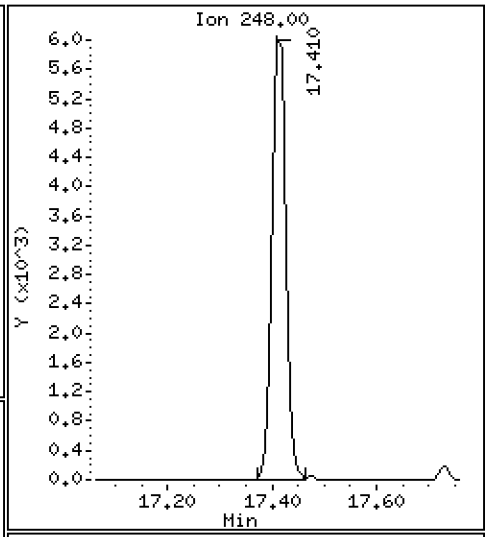
Concentration: 0.4732 ug/mL

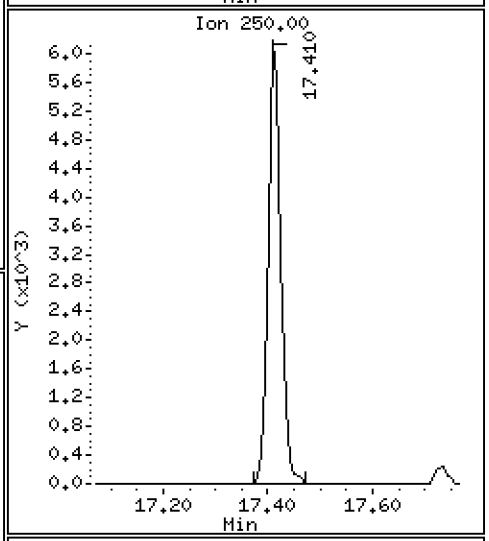


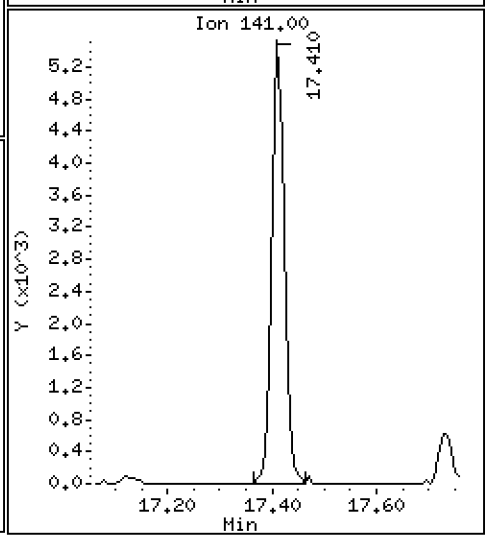












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

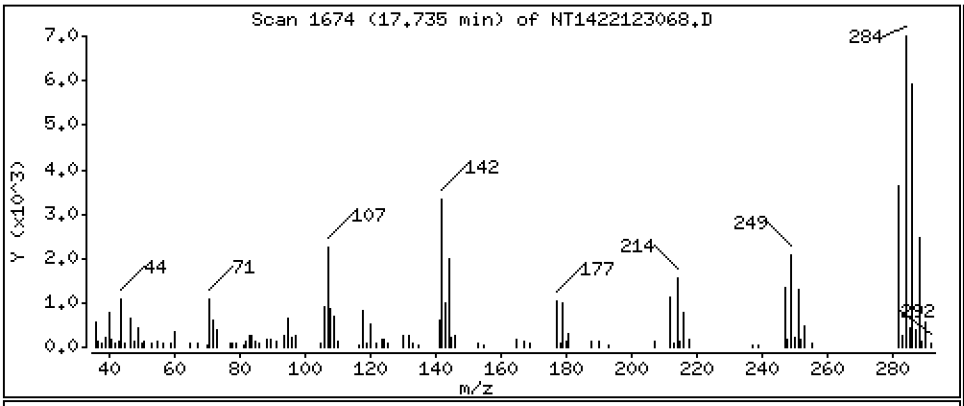
Operator: VTS

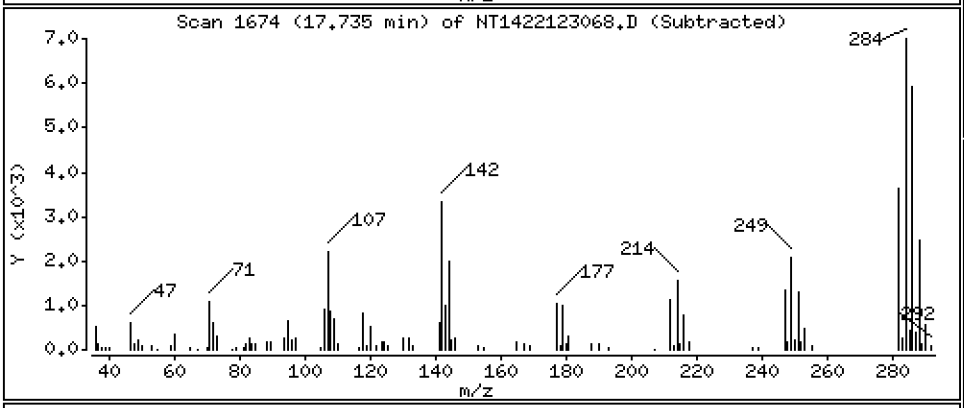
Column phase: ZB-5msi

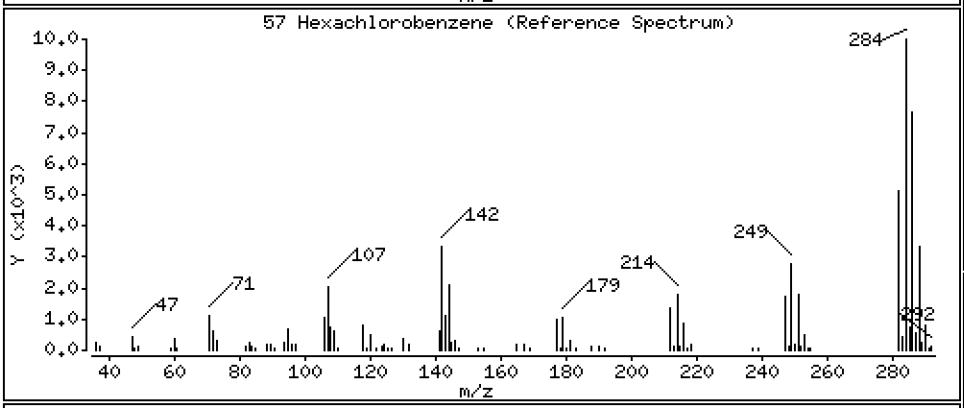
Column diameter: 0.25

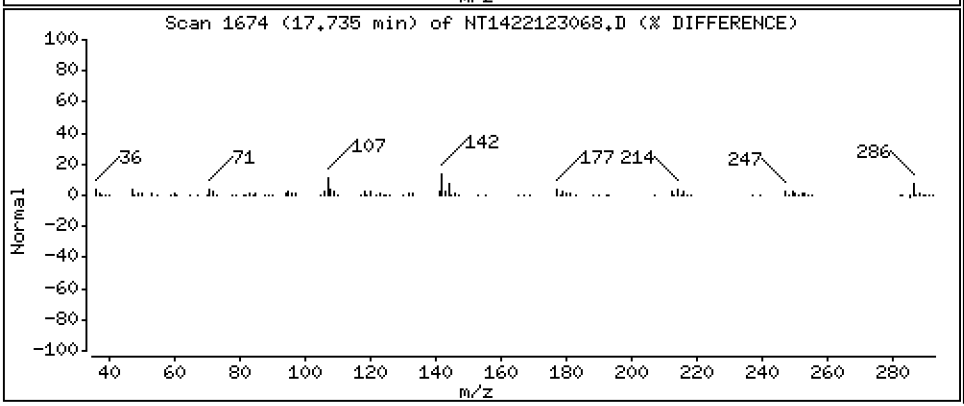
57 Hexachlorobenzene

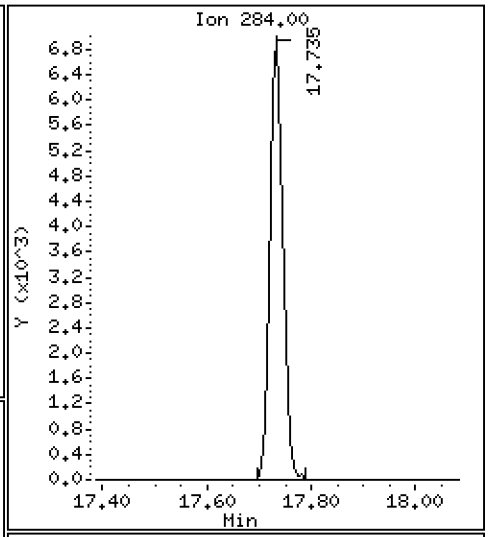
Concentration: 0.4872 ug/mL

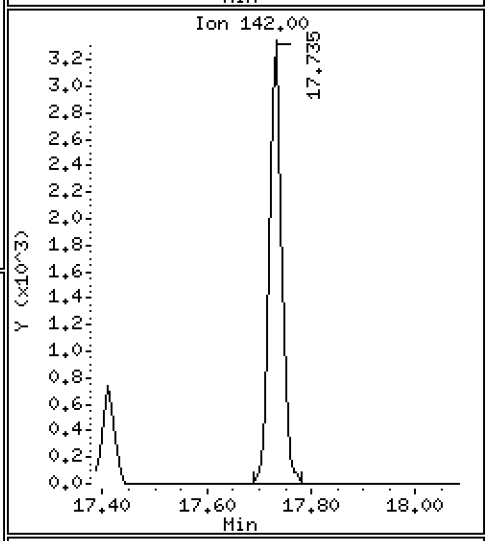


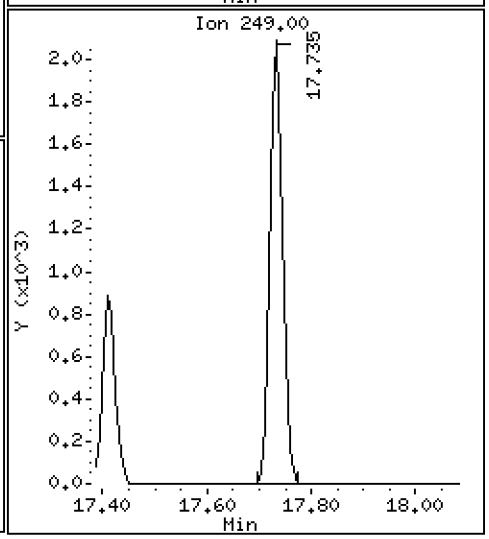












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

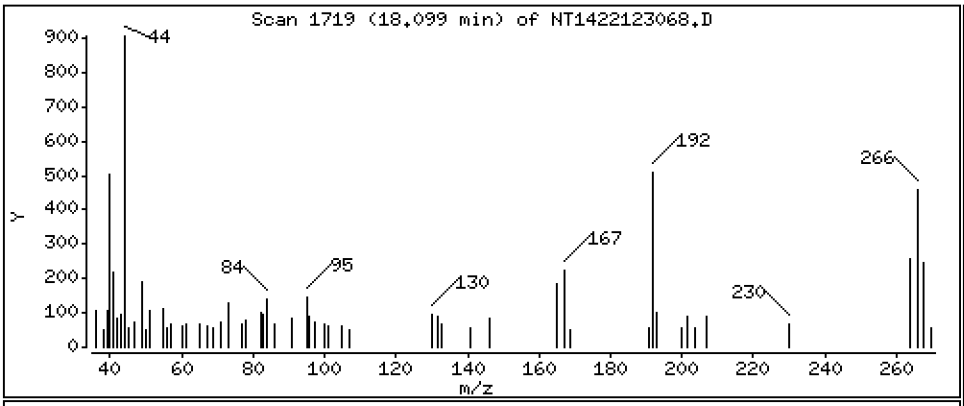
Operator: VTS

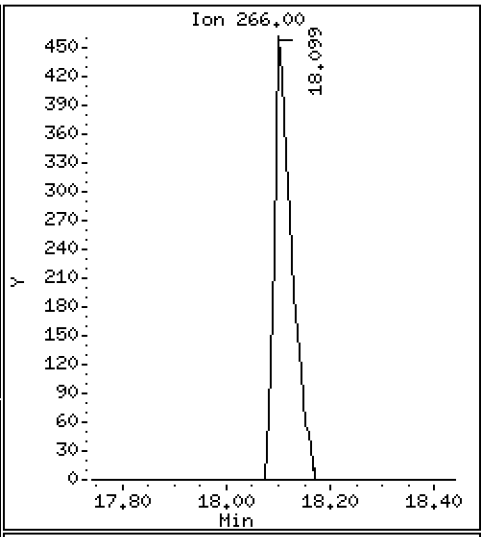
Column phase: ZB-5msi

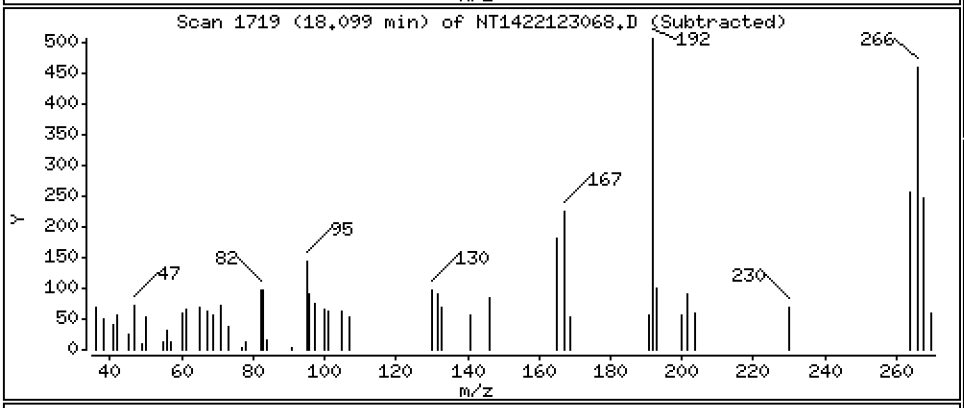
Column diameter: 0.25

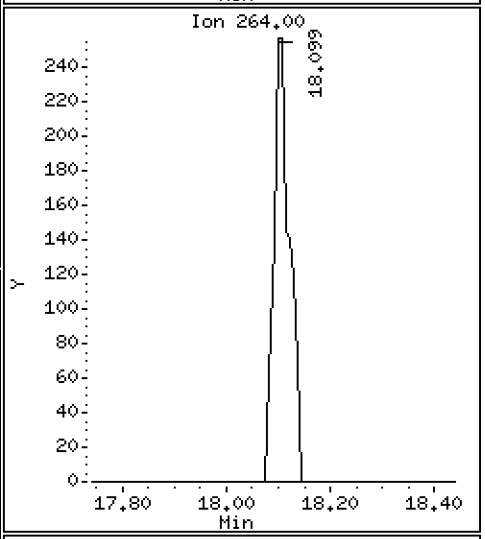
58 Pentachlorophenol

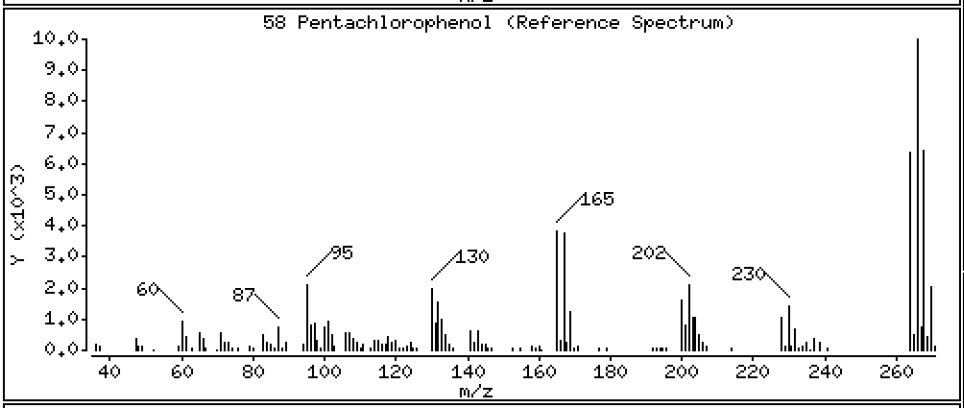
Concentration: 0.1037 ug/mL

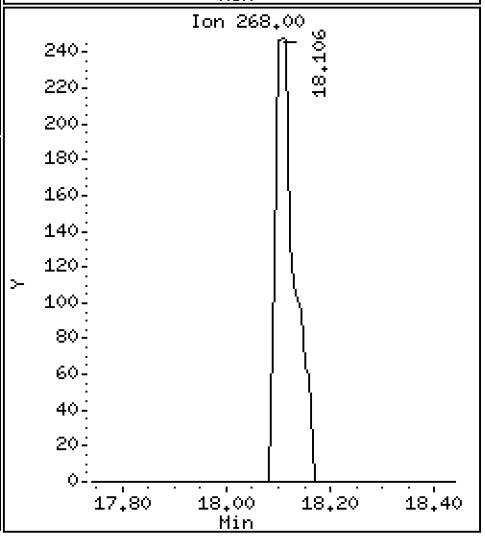


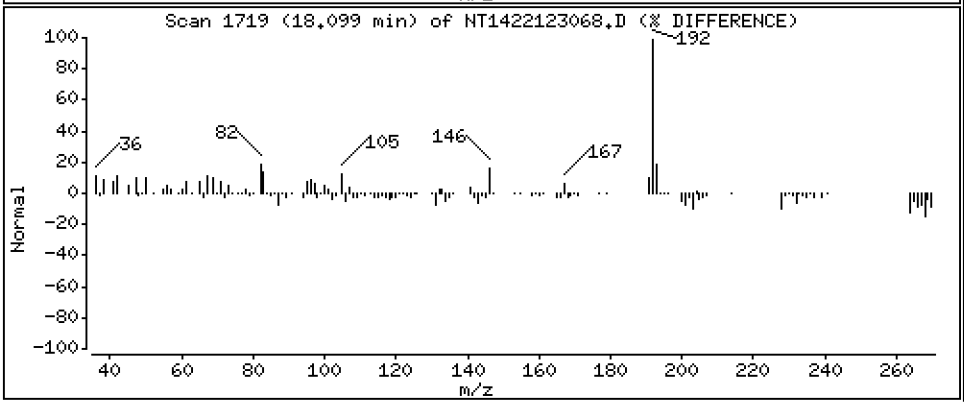












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

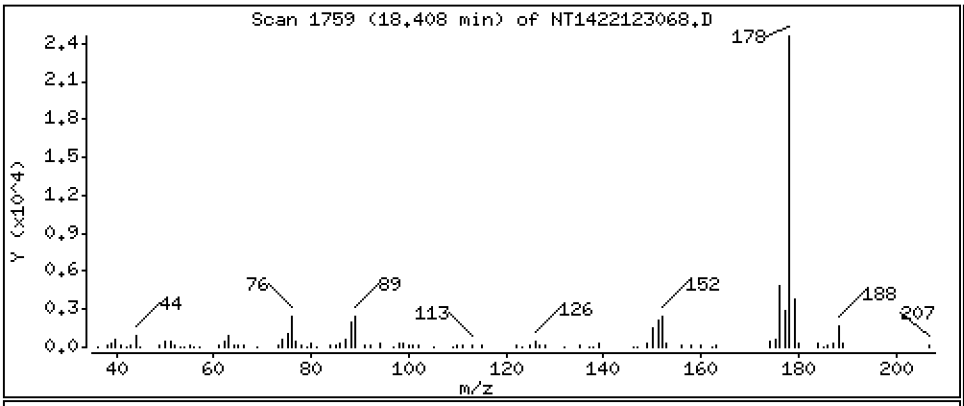
Operator: VTS

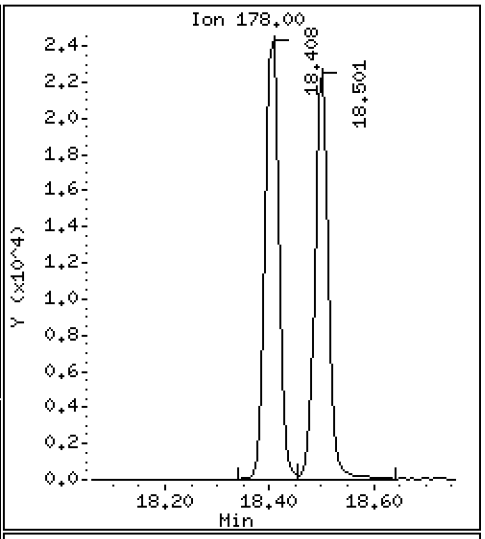
Column phase: ZB-5msi

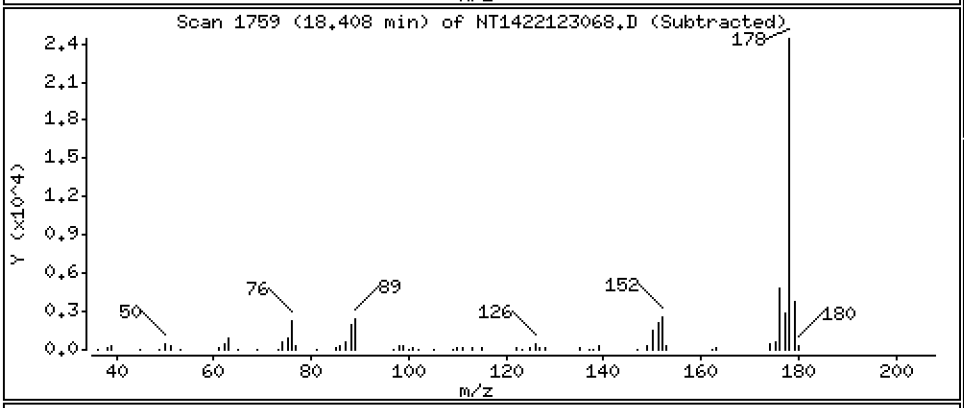
Column diameter: 0.25

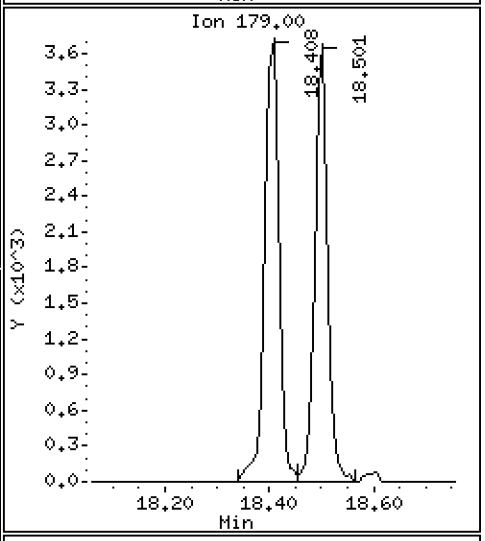
60 Phenanthrene

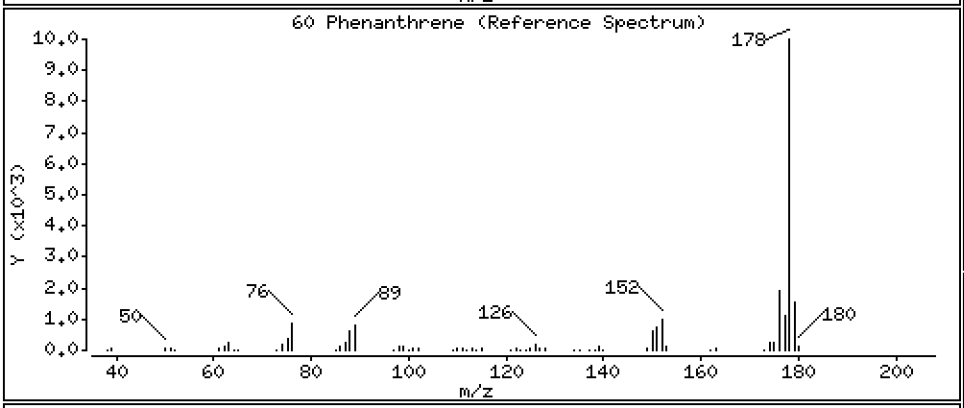
Concentration: 0.4832 ug/mL

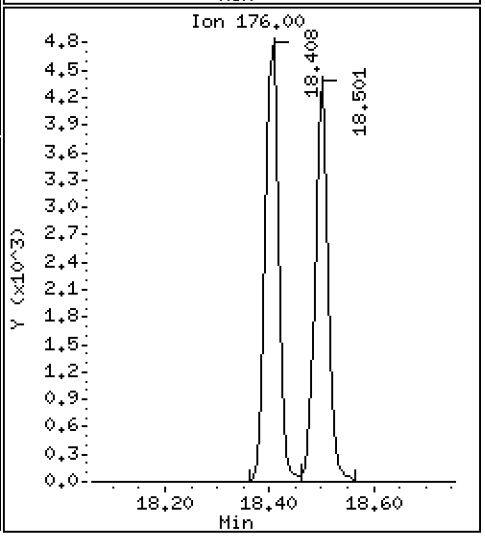


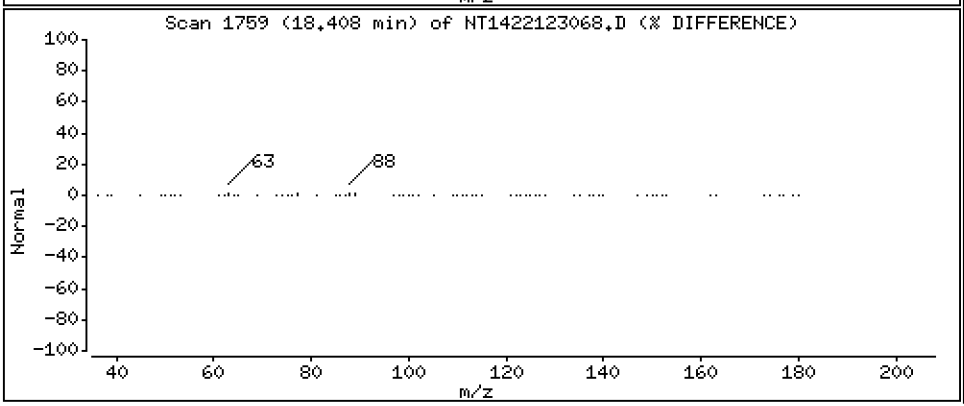












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

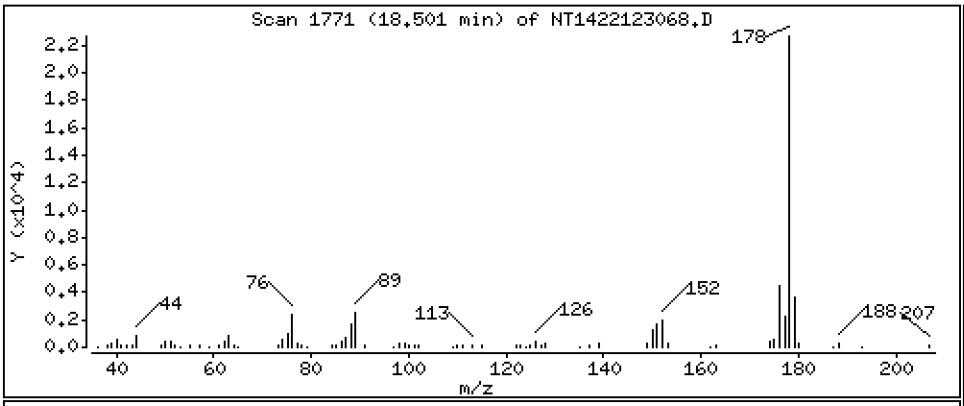
Operator: VTS

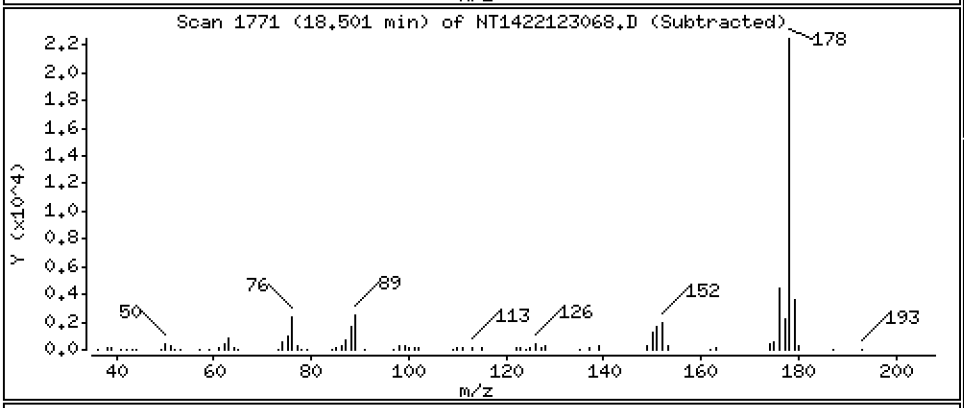
Column phase: ZB-5msi

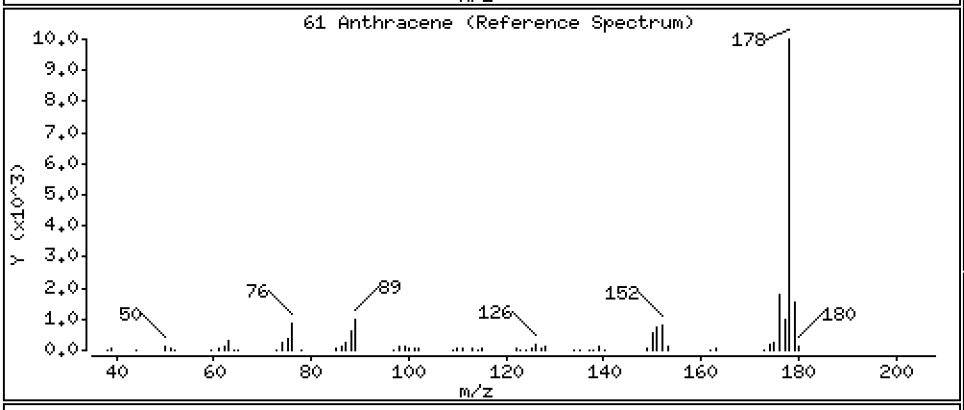
Column diameter: 0.25

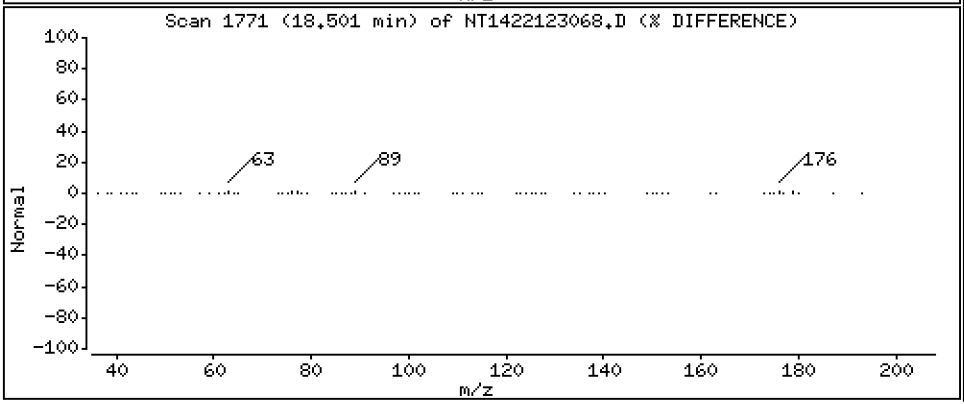
61 Anthracene

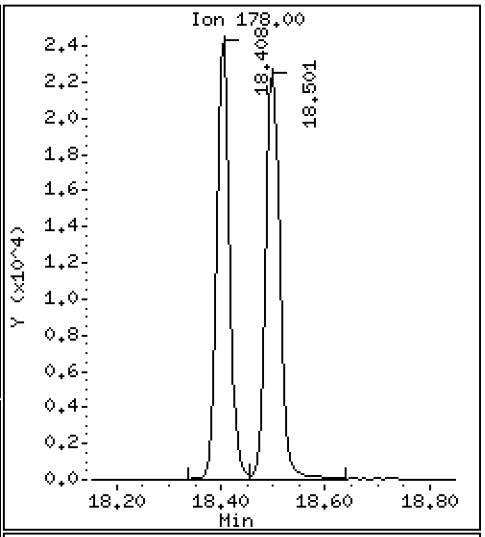
Concentration: 0.4848 ug/mL

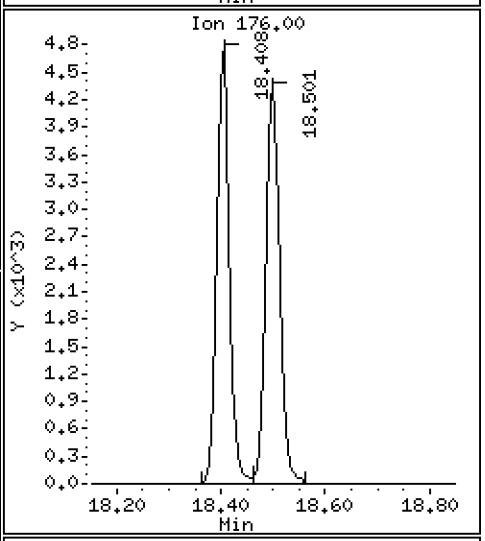


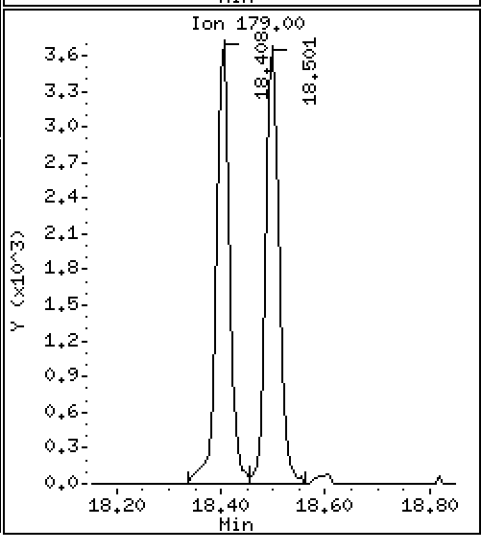












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

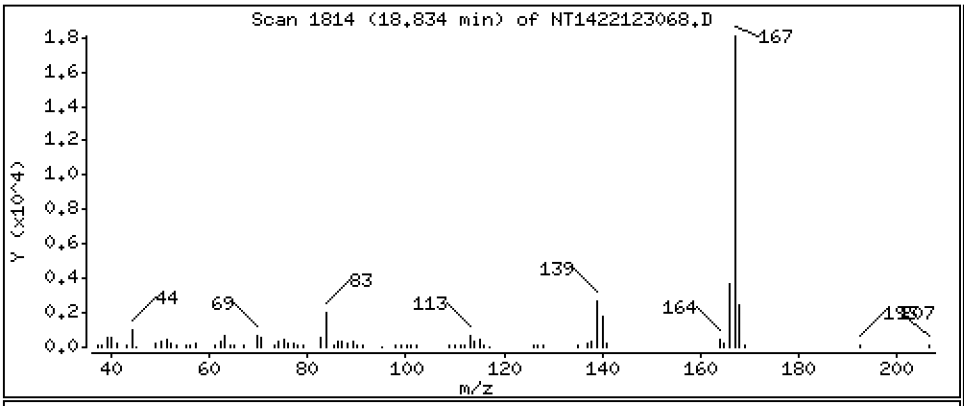
Operator: VTS

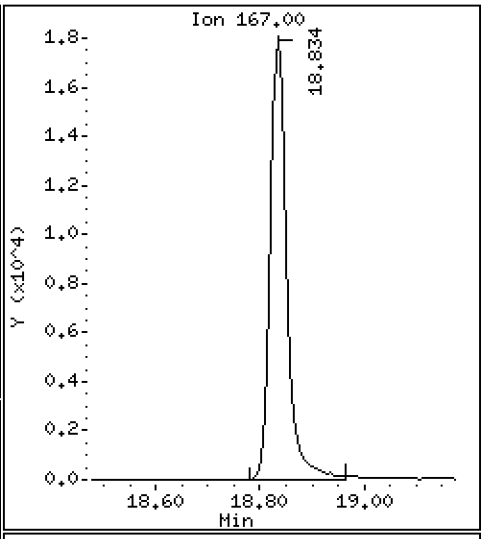
Column phase: ZB-5msi

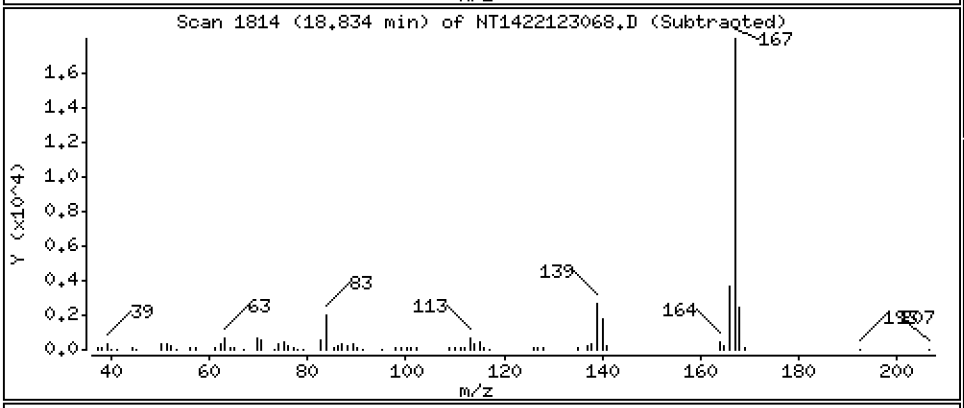
Column diameter: 0.25

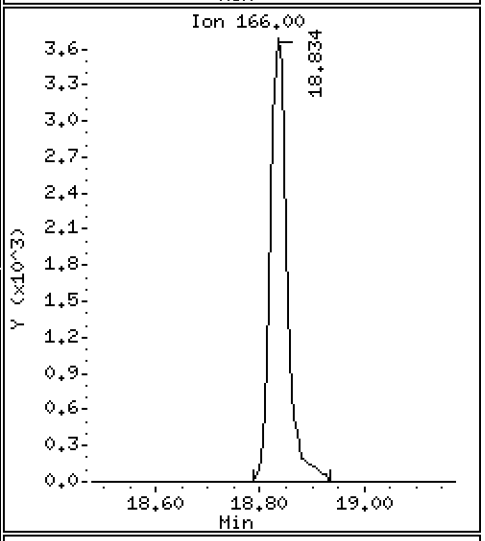
62 Carbazole

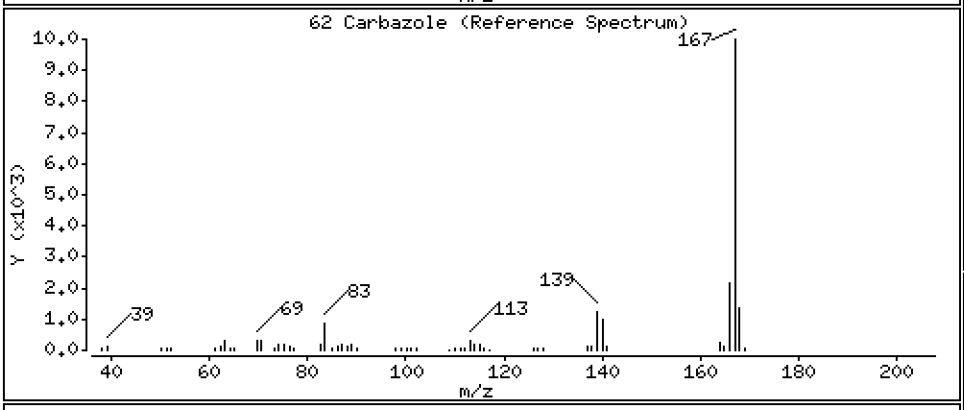
Concentration: 0.4681 ug/mL

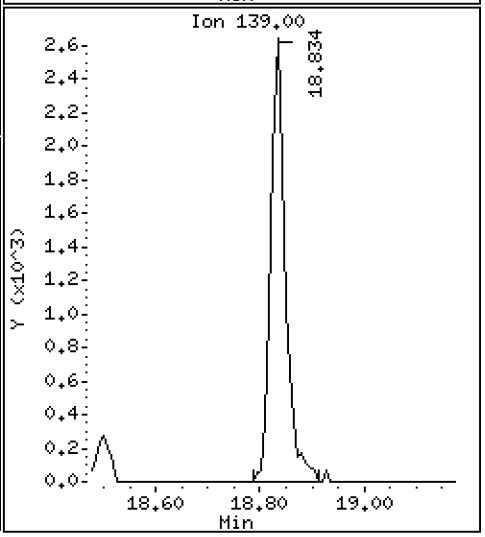


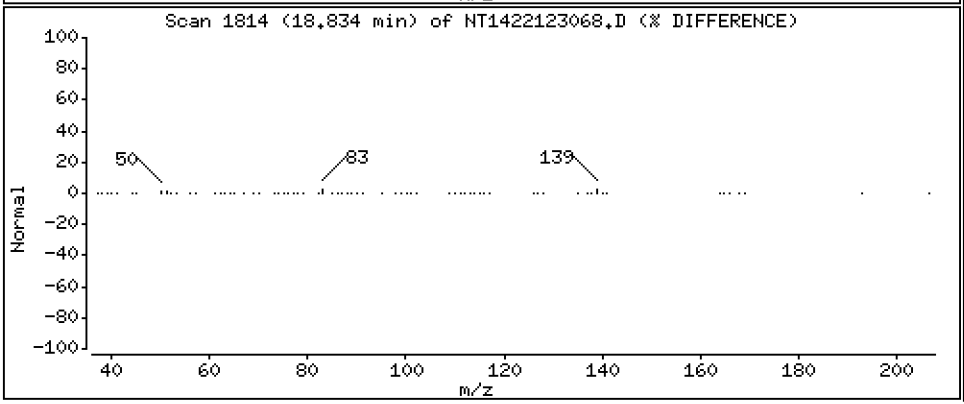












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

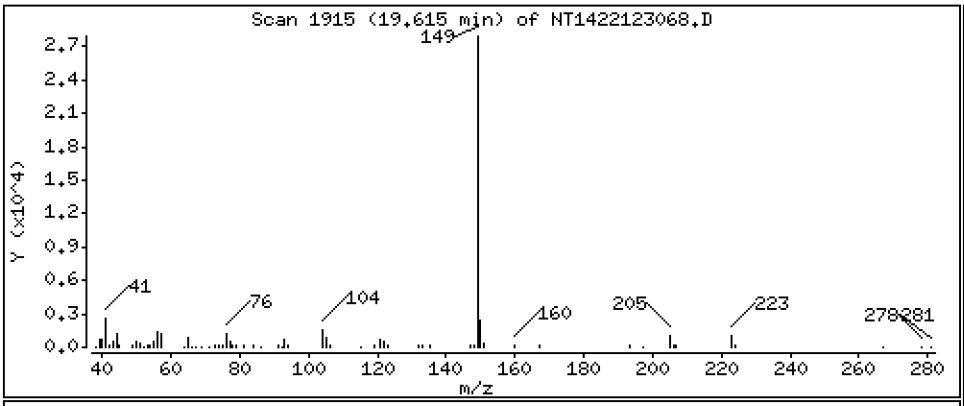
Operator: VTS

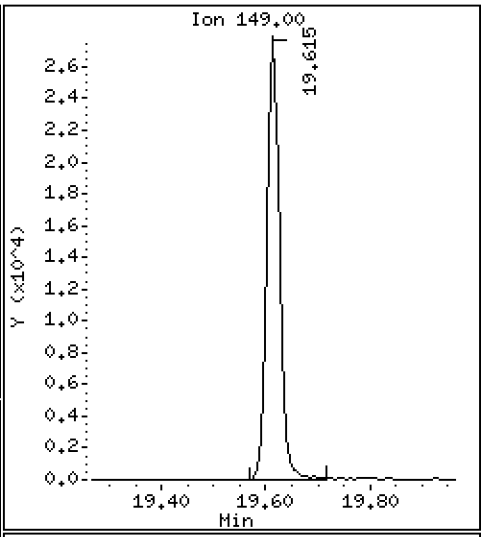
Column phase: ZB-5msi

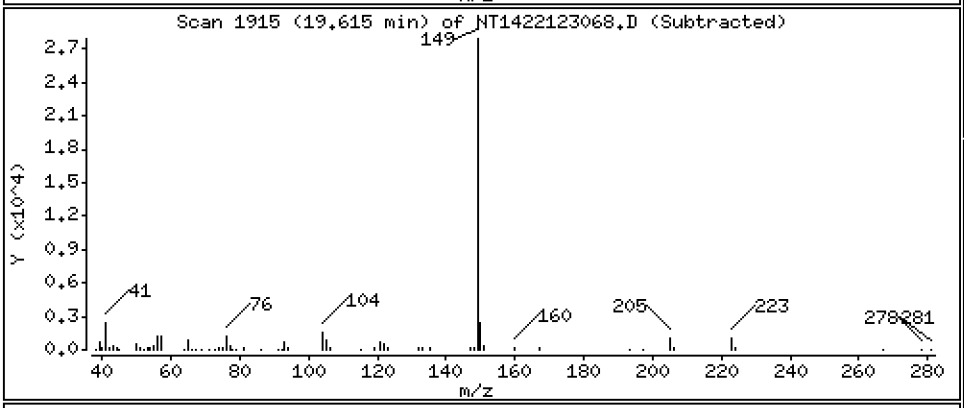
Column diameter: 0.25

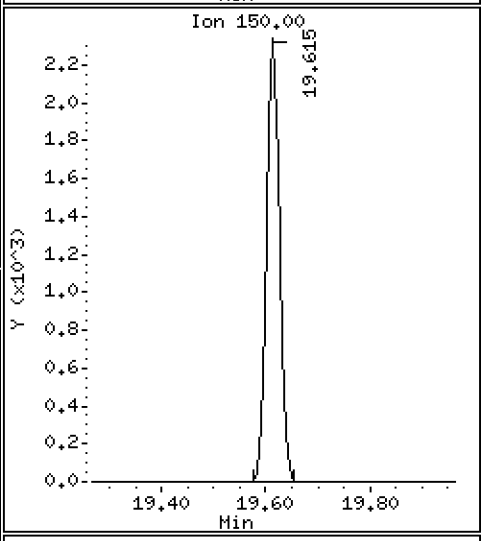
63 Di-n-butylphthalate

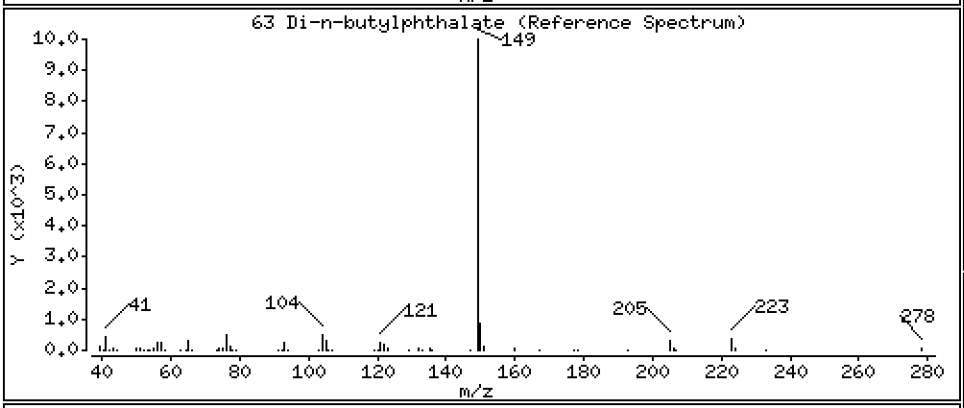
Concentration: 0.4789 ug/mL

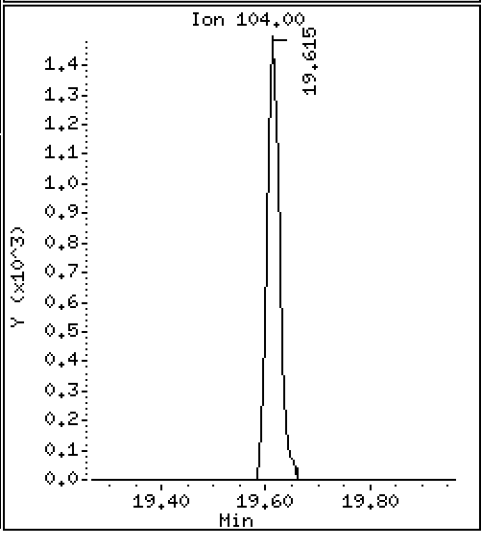


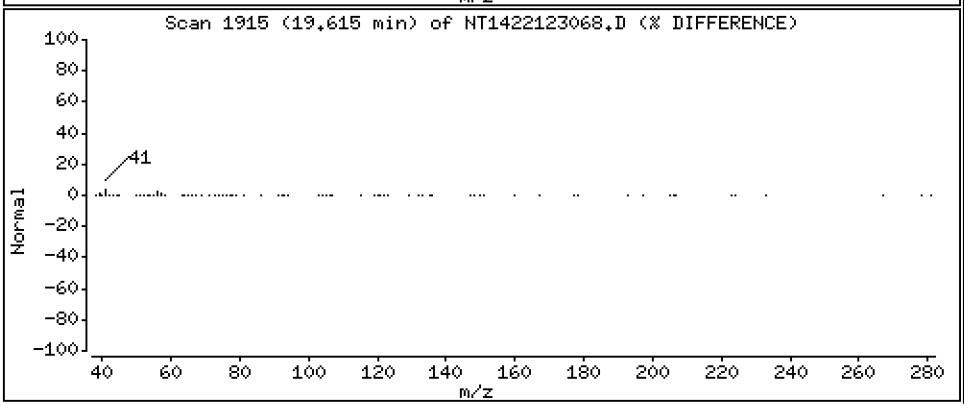












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

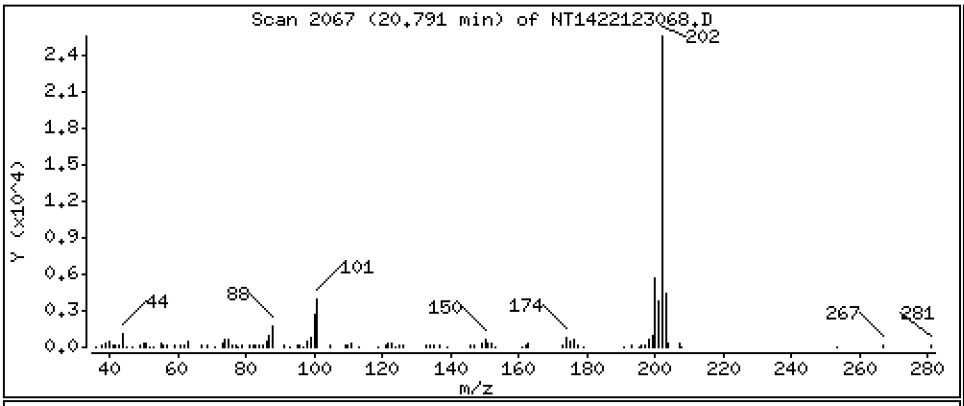
Operator: VTS

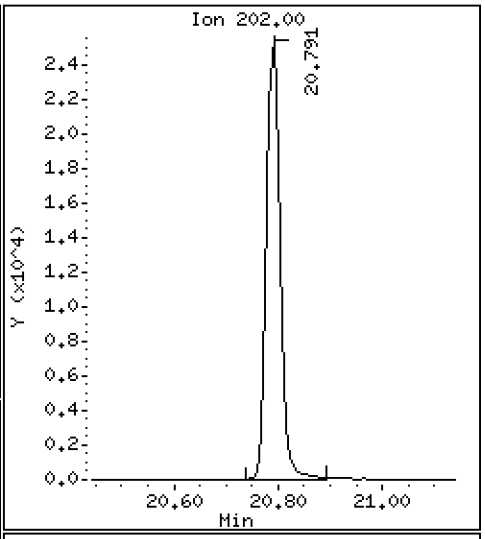
Column phase: ZB-5msi

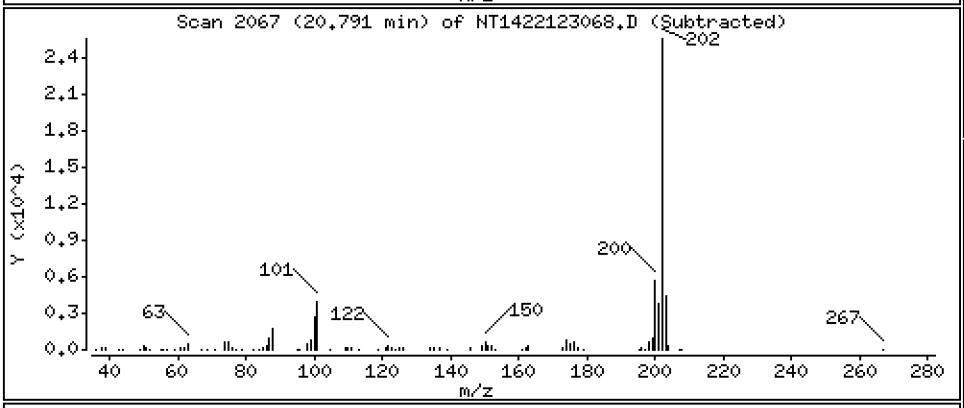
Column diameter: 0.25

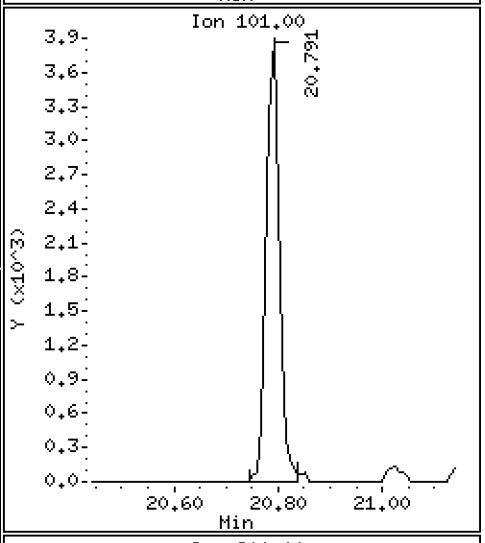
64 Fluoranthene

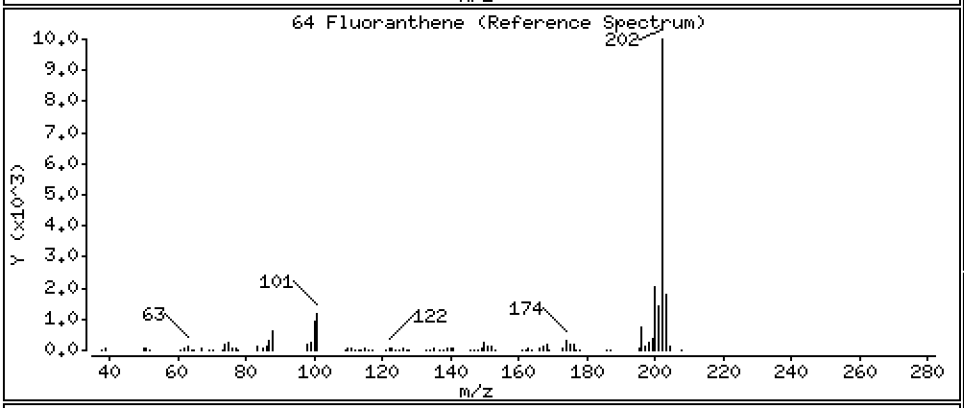
Concentration: 0.4720 ug/mL

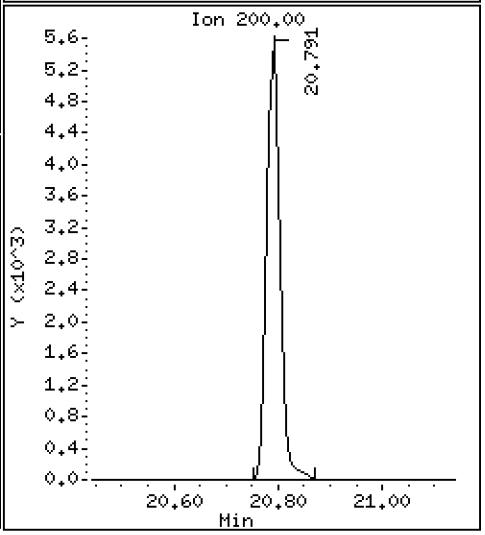


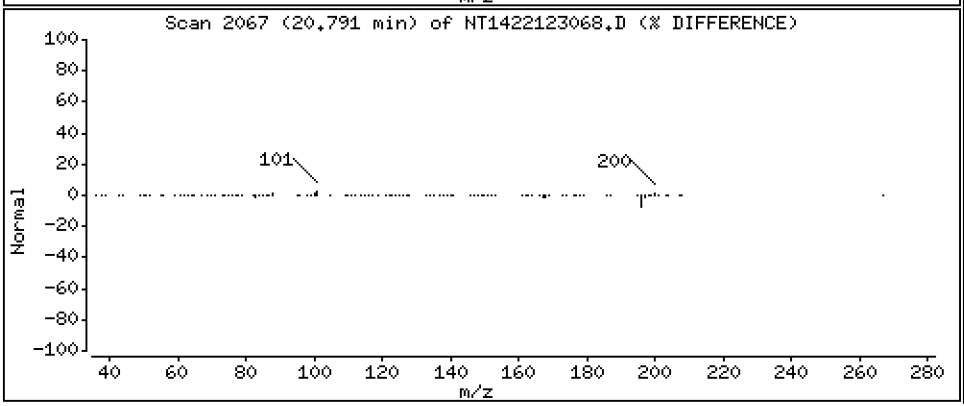












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

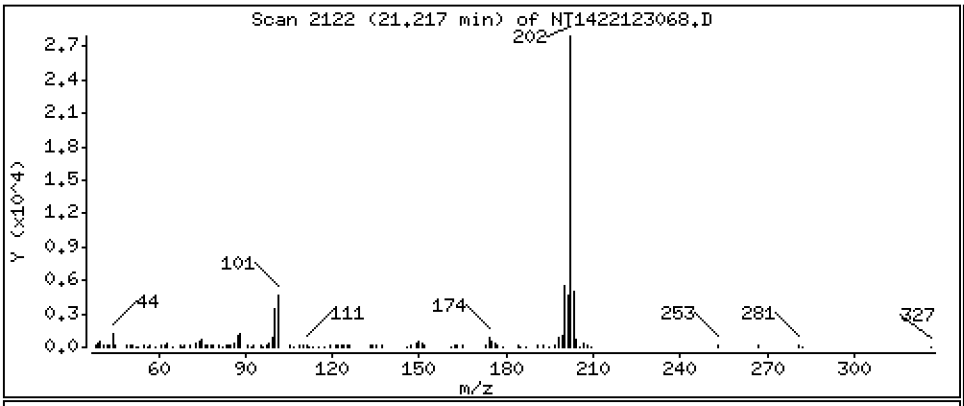
Operator: VTS

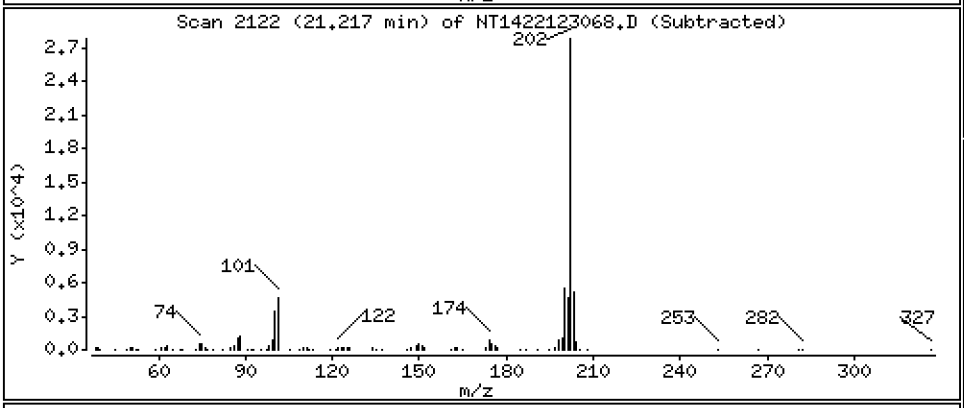
Column phase: ZB-5msi

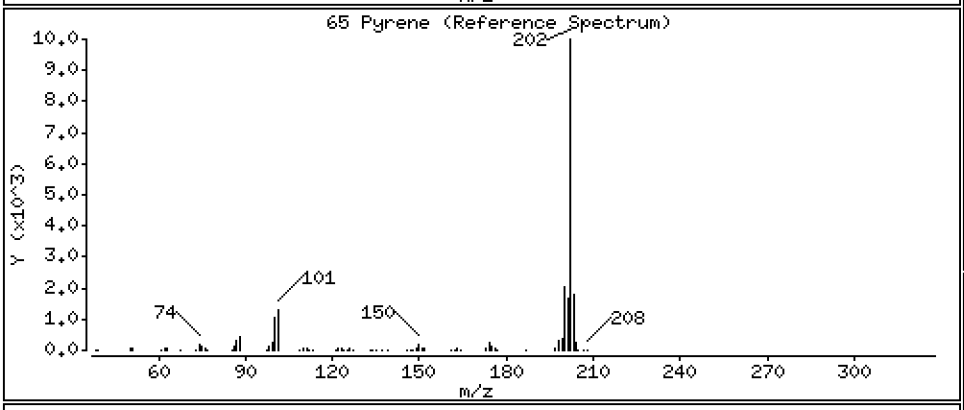
Column diameter: 0.25

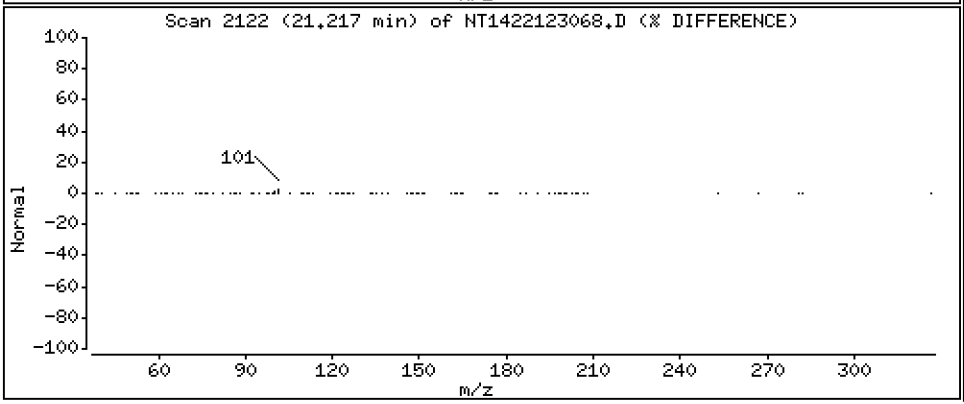
65 Pyrene

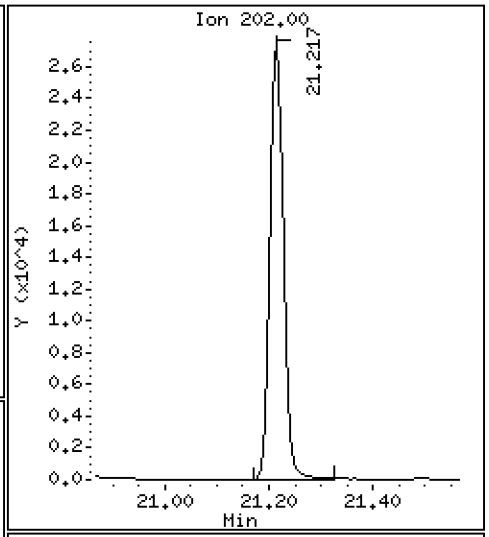
Concentration: 0.4811 ug/mL

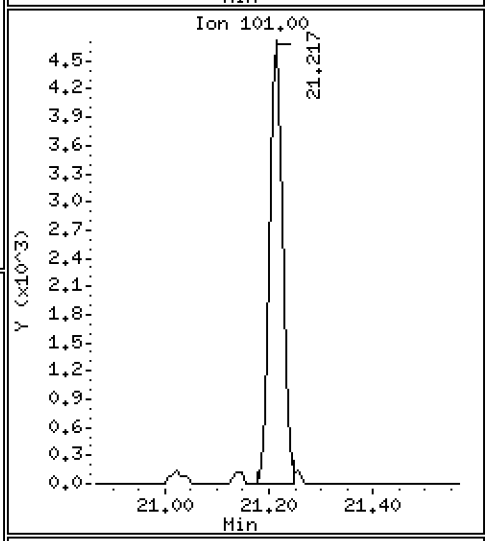


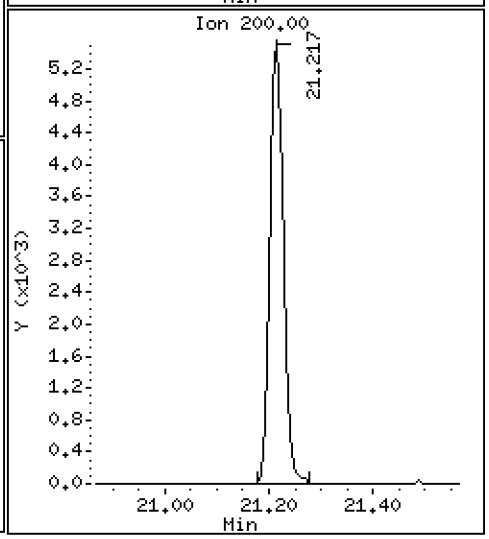












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

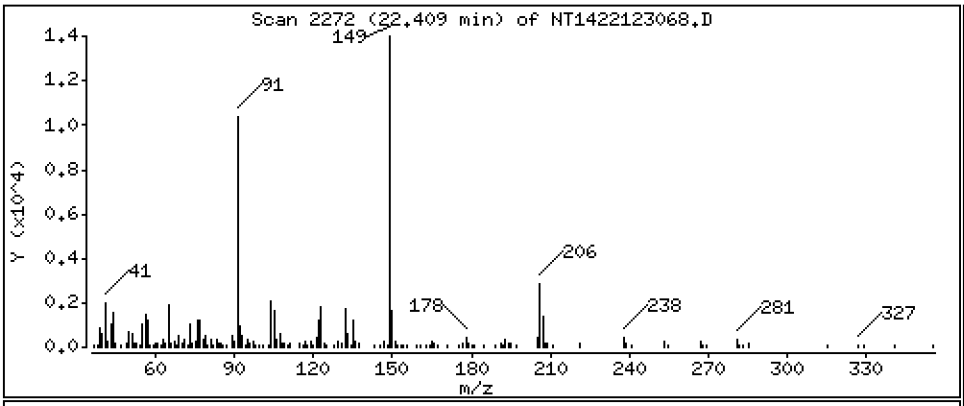
Operator: VTS

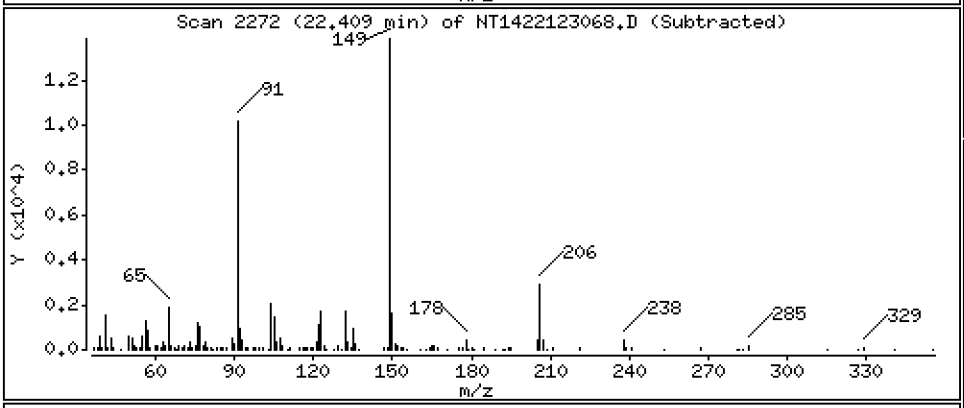
Column phase: ZB-5msi

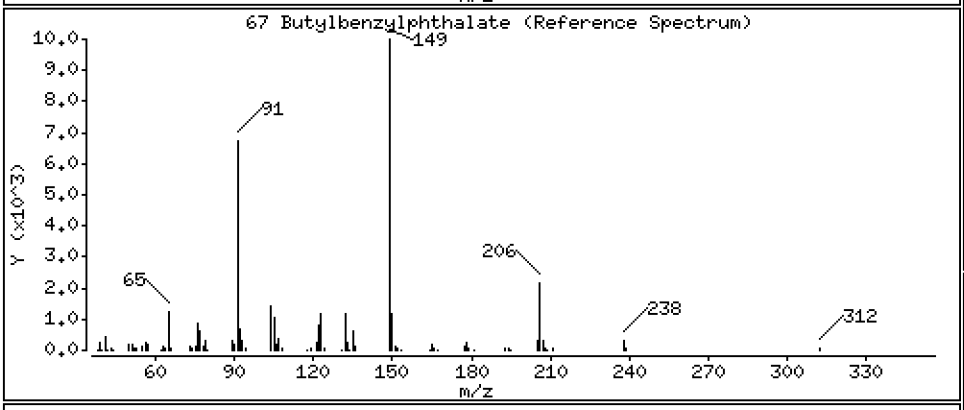
Column diameter: 0.25

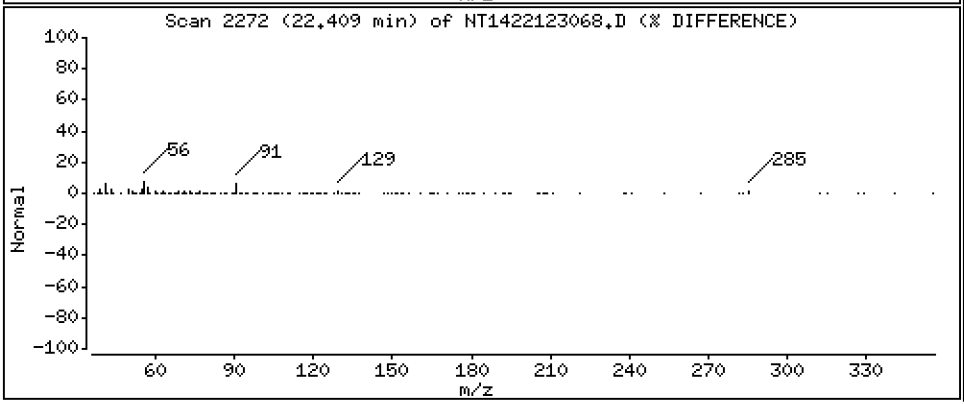
67 Butylbenzylphthalate

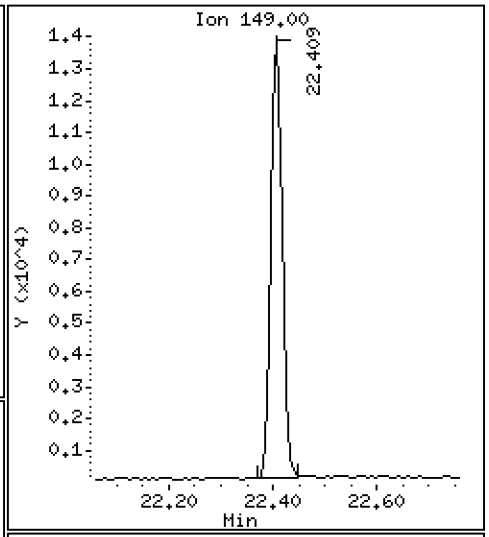
Concentration: 0.5261 ug/mL

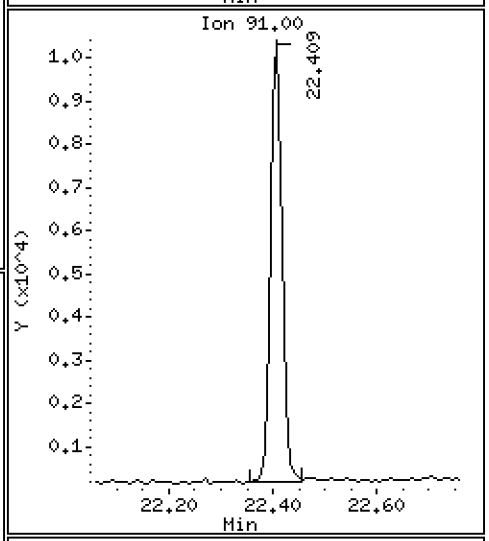


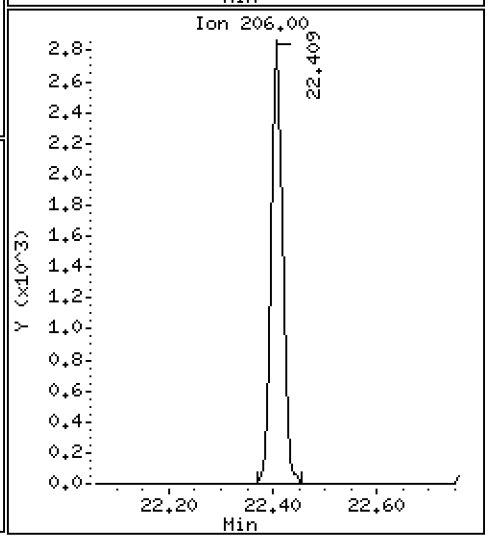












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

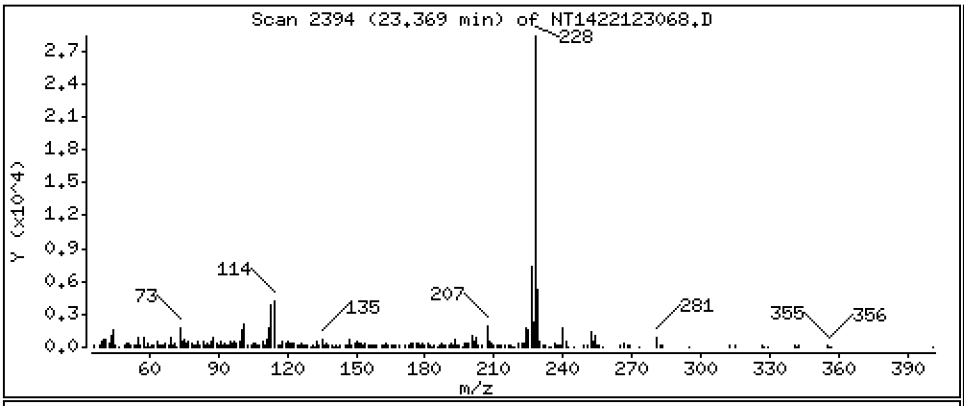
Operator: VTS

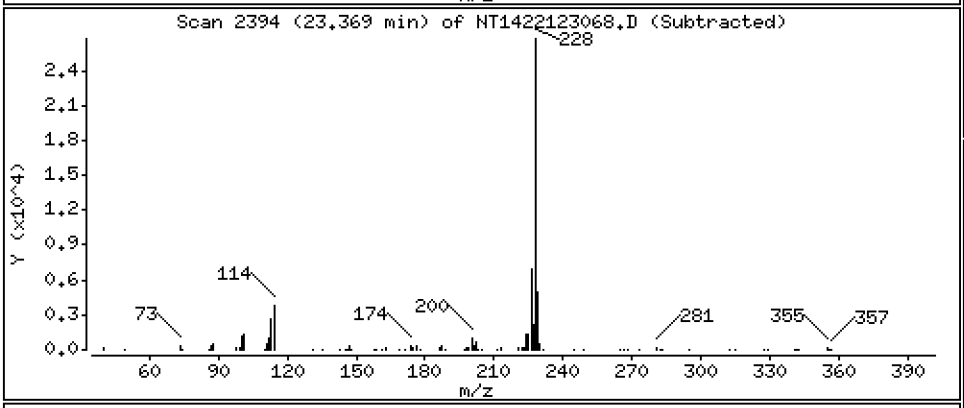
Column phase: ZB-5msi

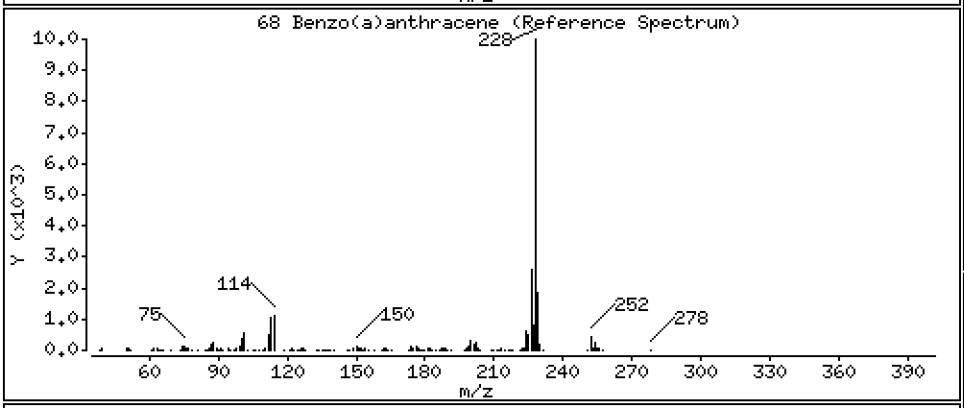
Column diameter: 0.25

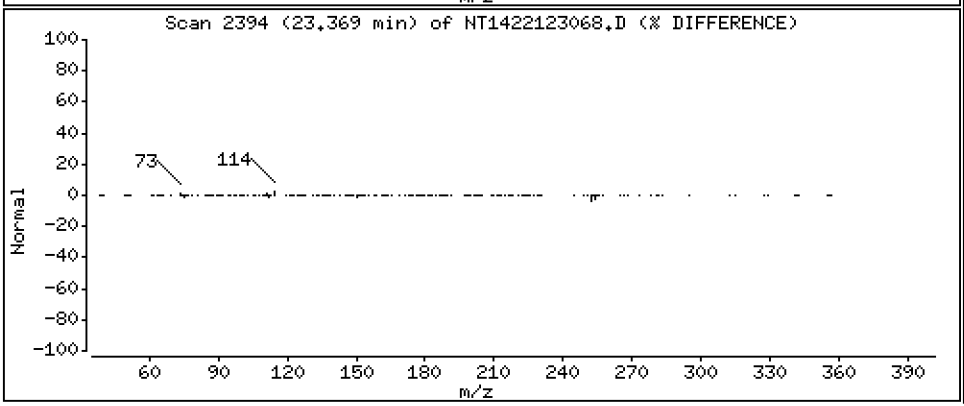
68 Benzo(a)anthracene

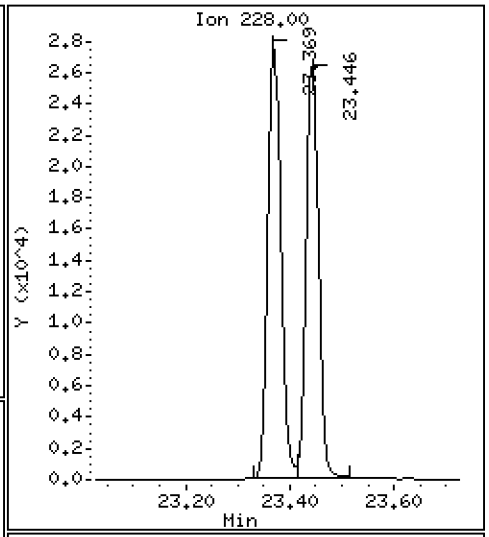
Concentration: 0.5206 ug/mL

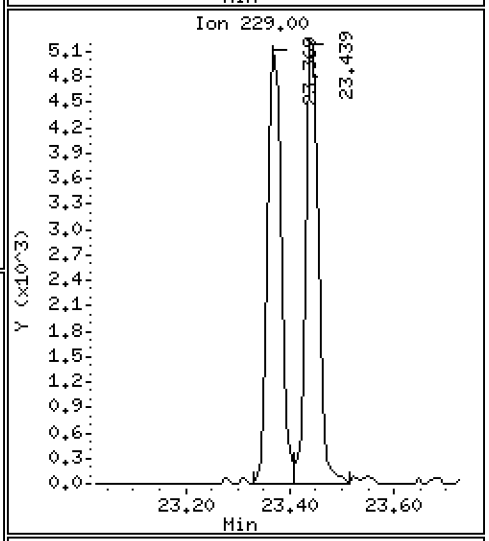


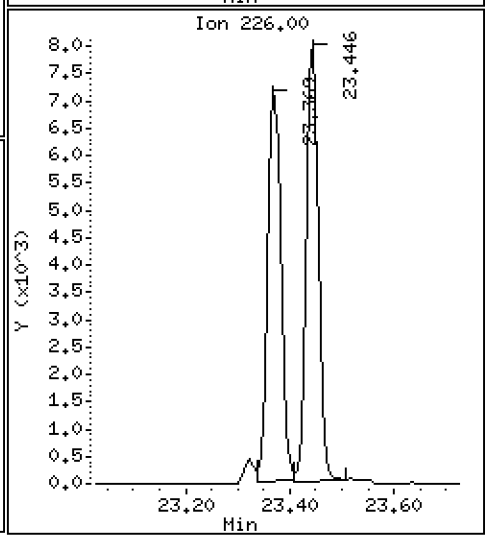












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

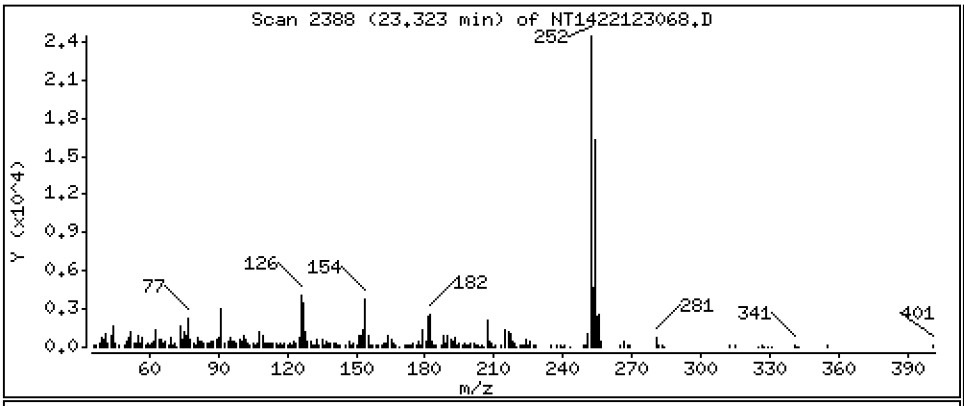
Operator: VTS

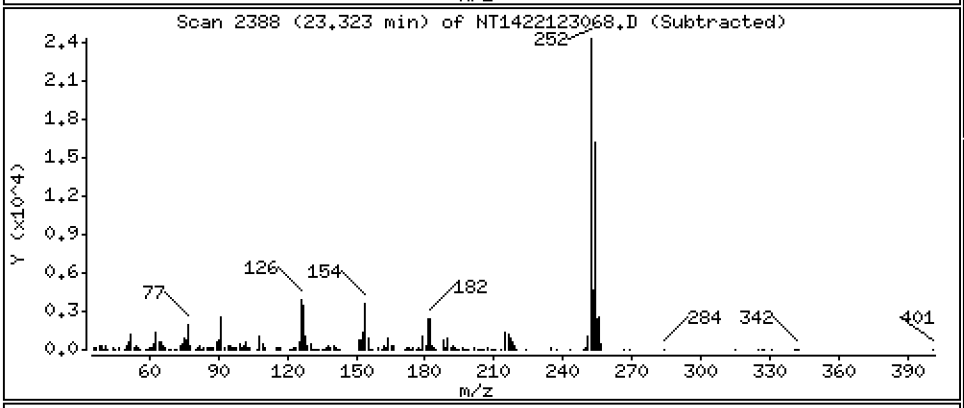
Column phase: ZB-5msi

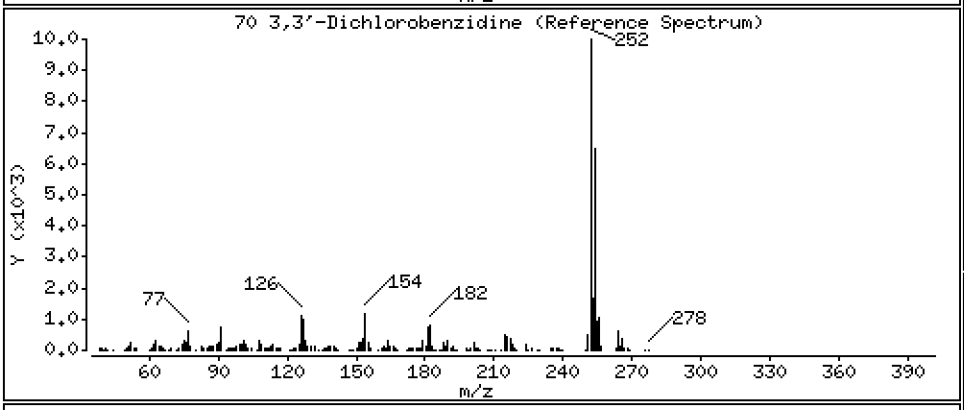
Column diameter: 0.25

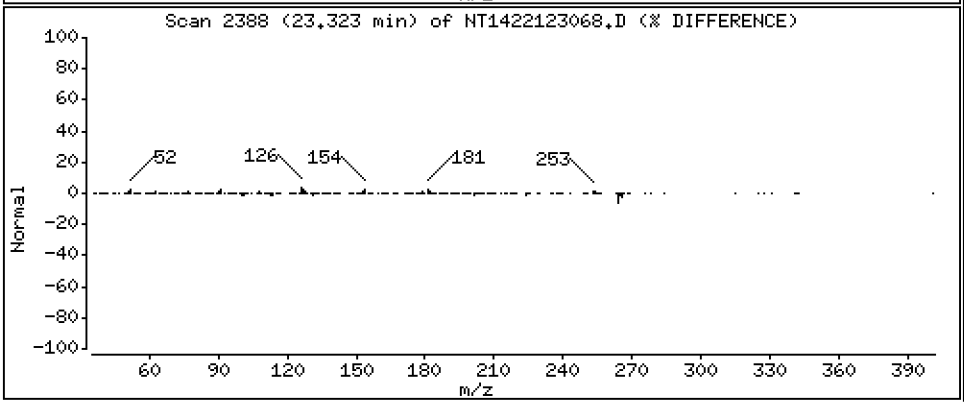
70 3,3'-Dichlorobenzidine

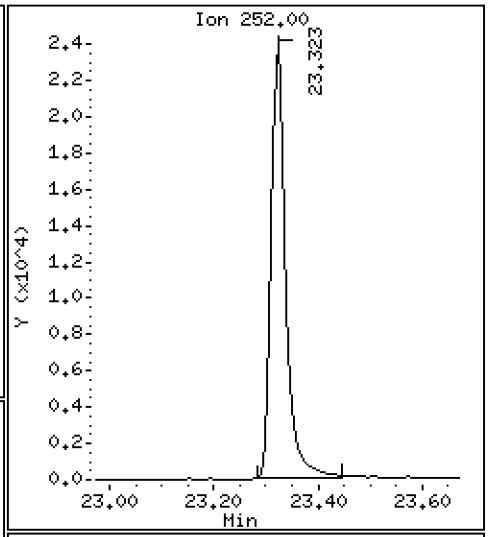
Concentration: 1.641 ug/mL

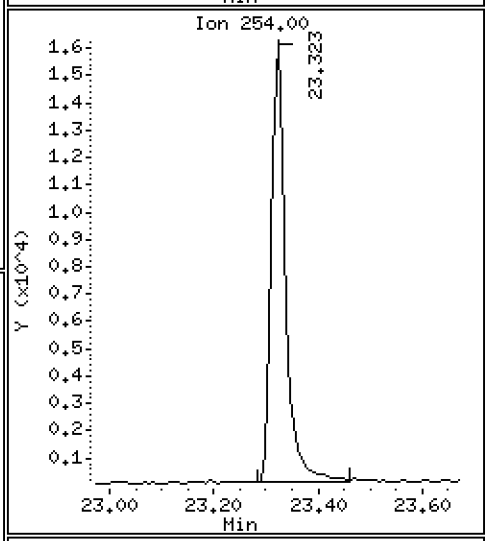


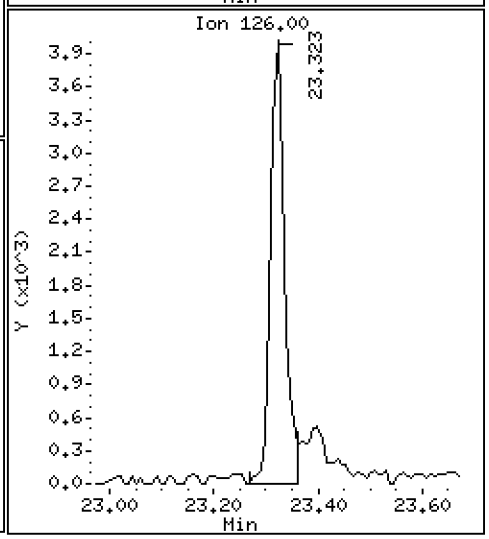












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

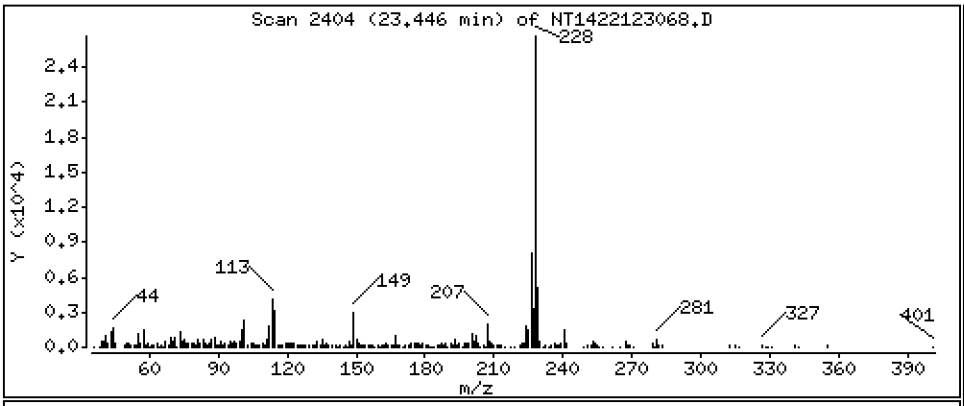
Operator: VTS

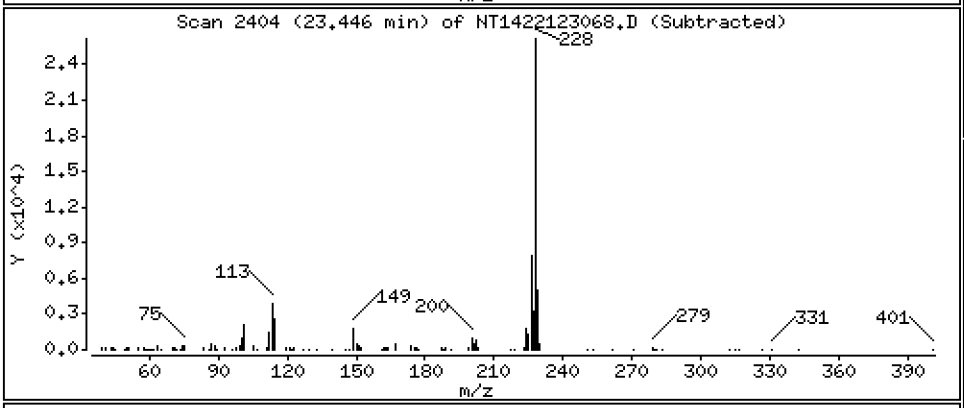
Column phase: ZB-5msi

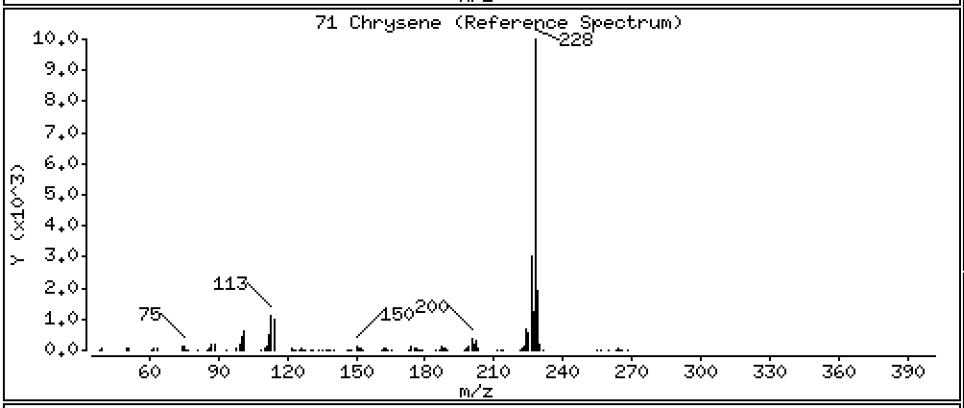
Column diameter: 0.25

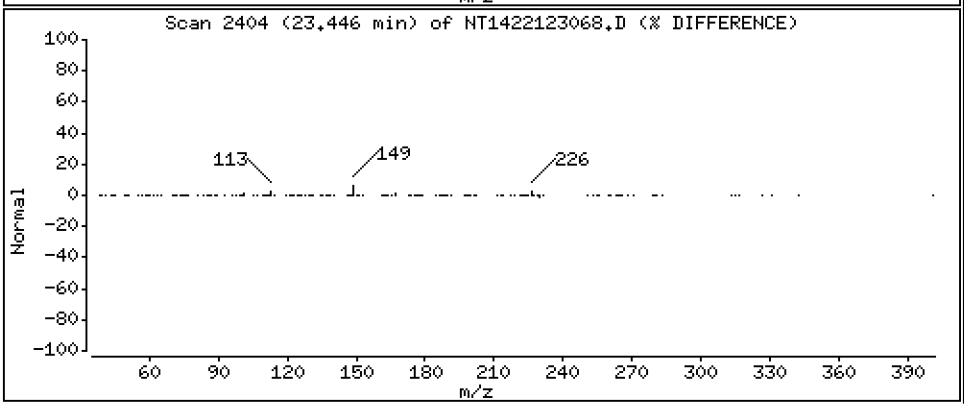
71 Chrysene

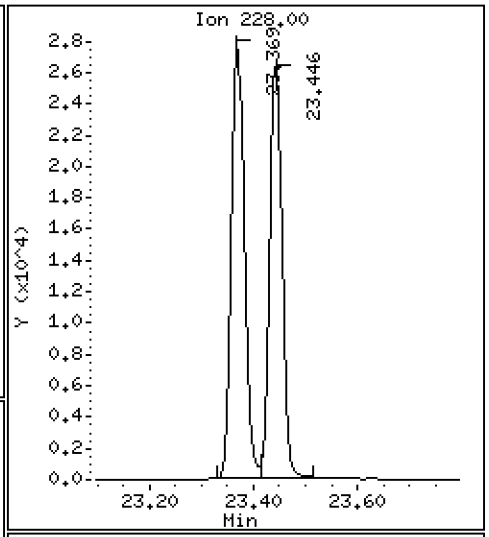
Concentration: 0.5001 ug/mL

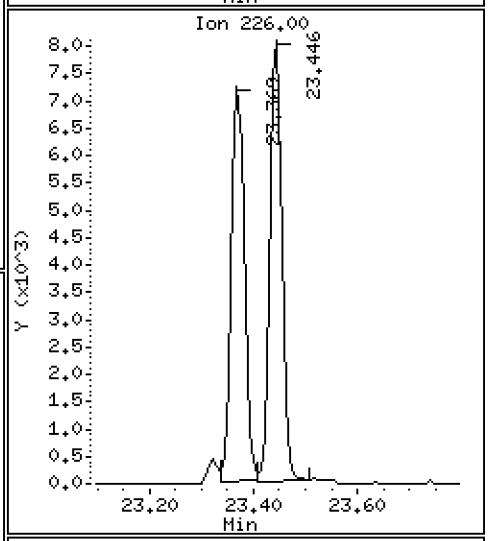


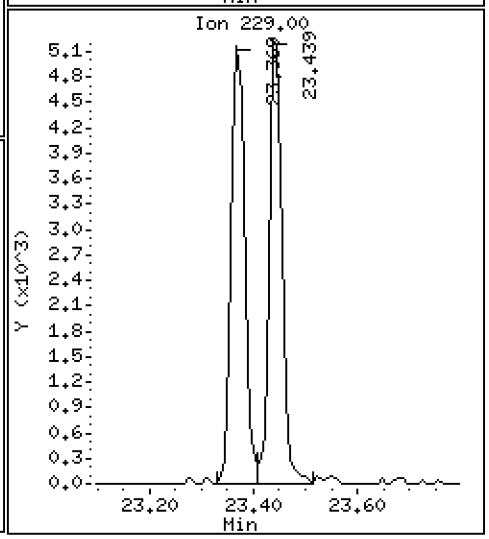












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

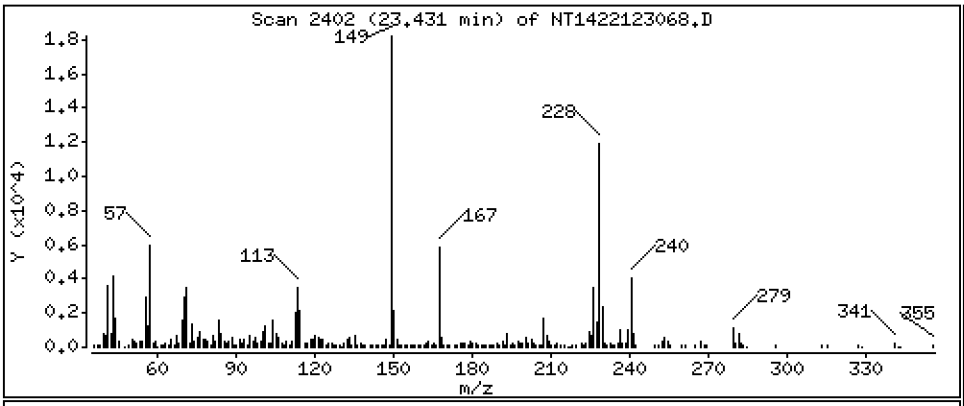
Operator: VTS

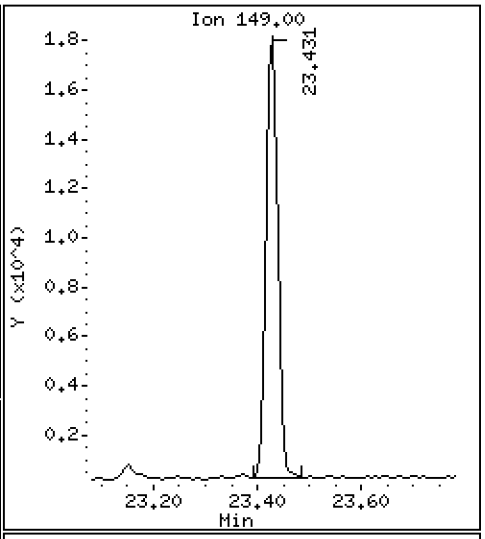
Column phase: ZB-5msi

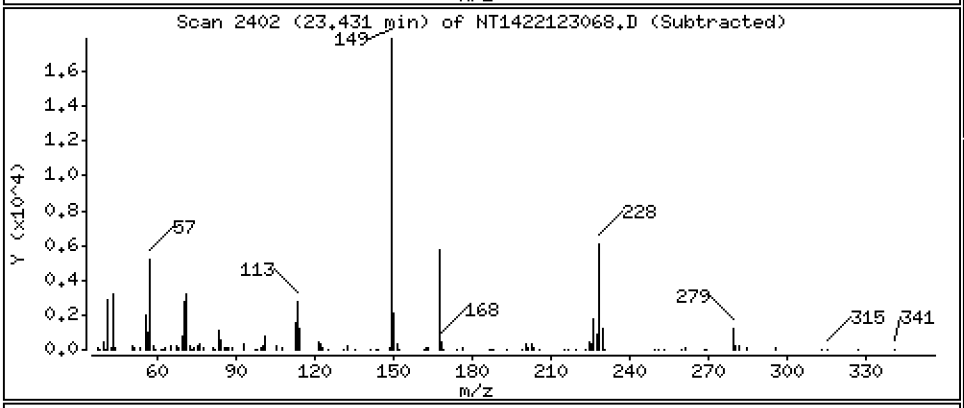
Column diameter: 0.25

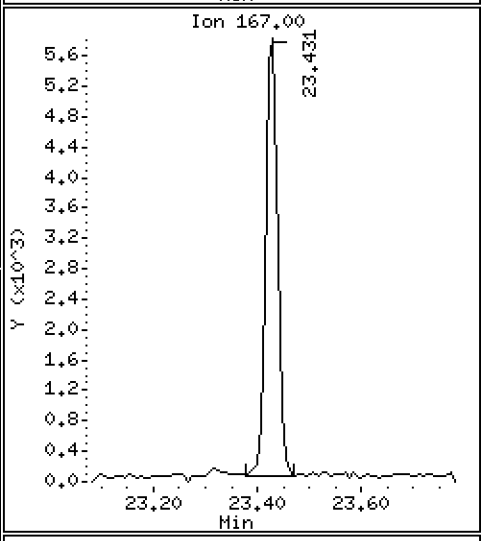
72 bis(2-Ethylhexyl)phthalate

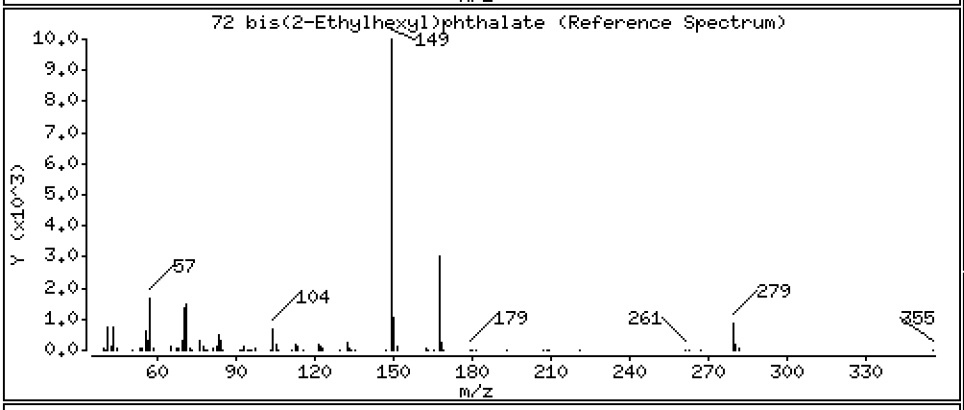
Concentration: 0.5136 ug/mL

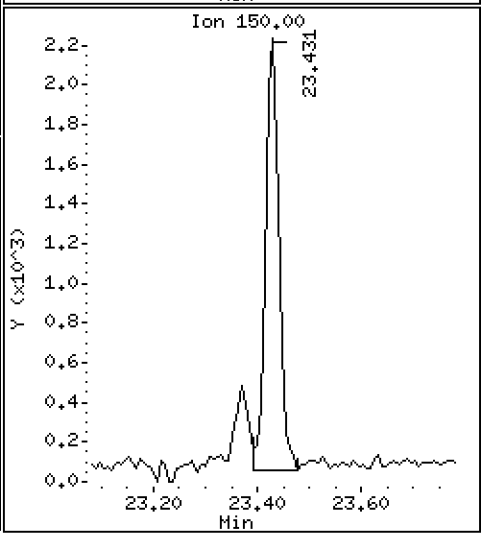


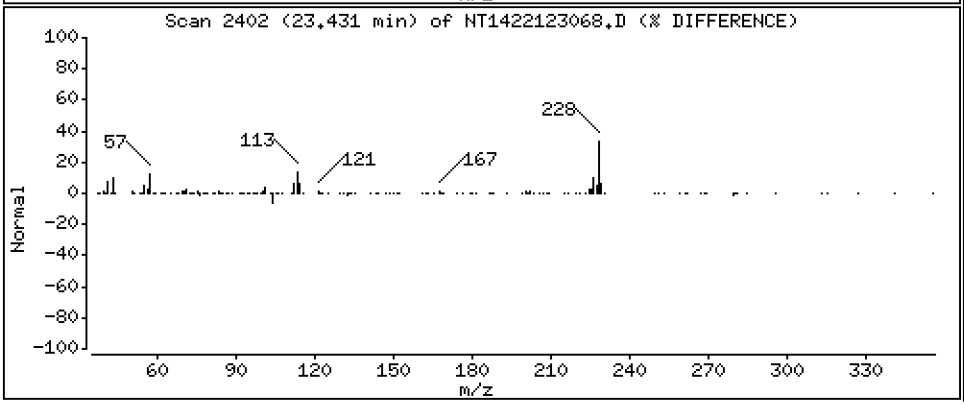












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

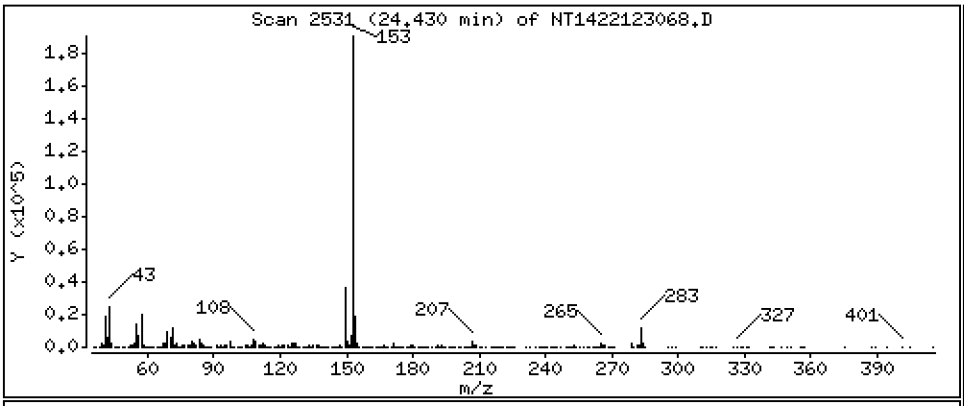
Operator: VTS

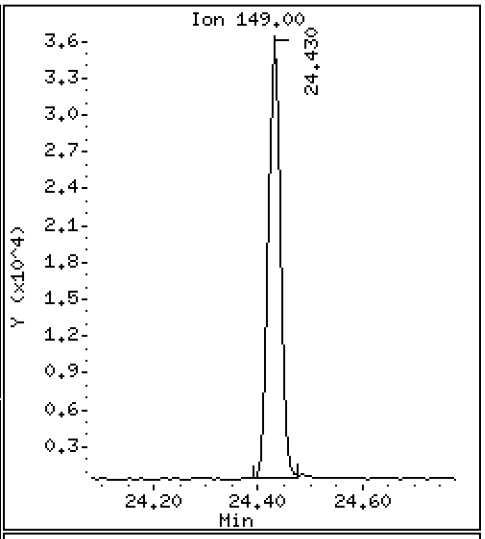
Column phase: ZB-5msi

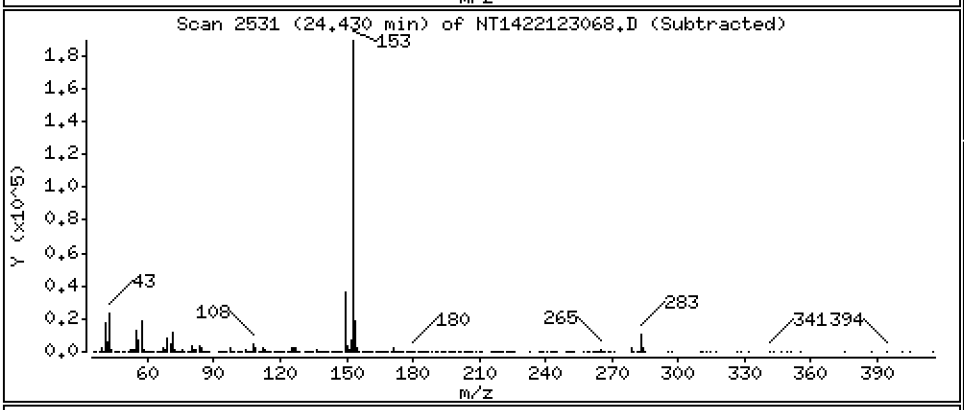
Column diameter: 0.25

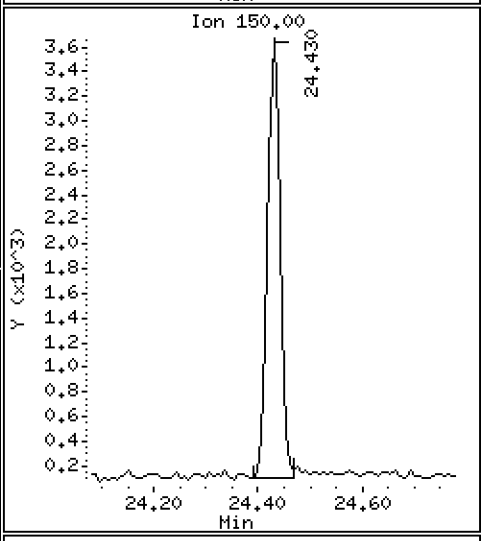
73 Di-n-octylphthalate

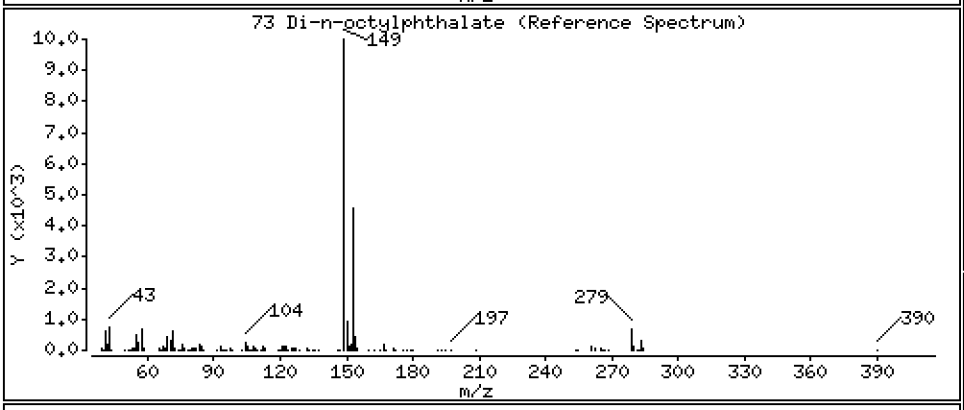
Concentration: 0.4900 ug/mL

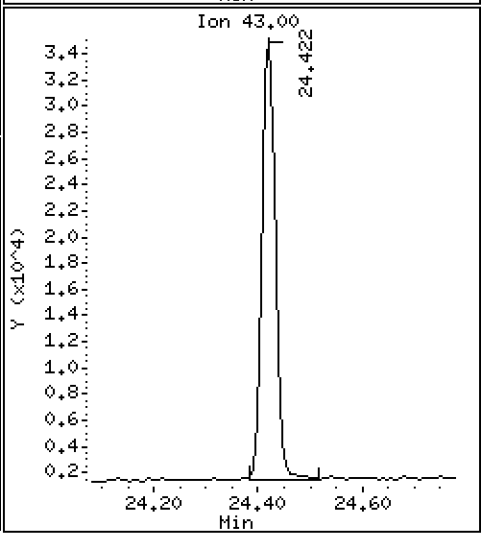


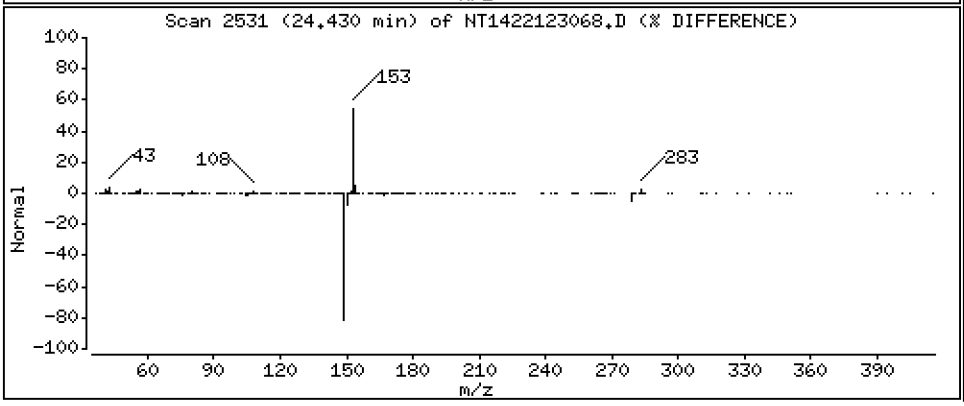












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

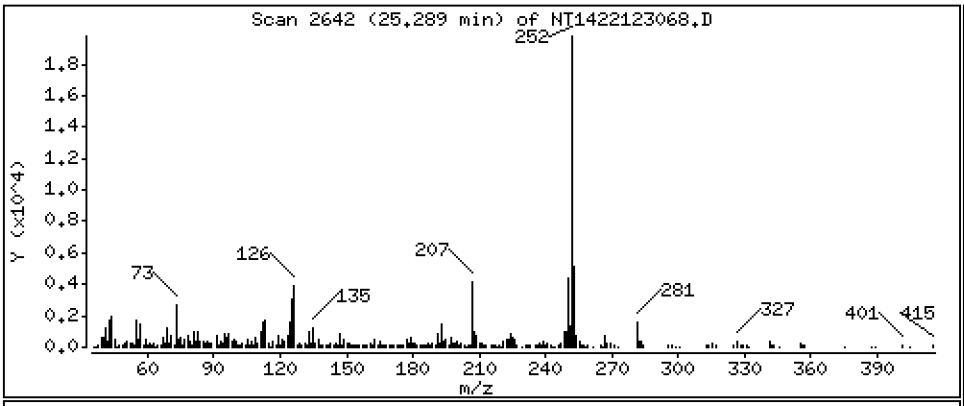
Operator: VTS

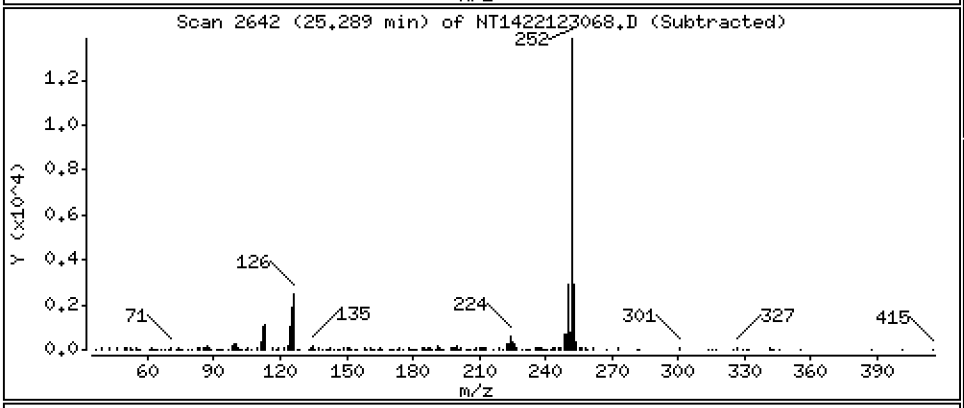
Column phase: ZB-5msi

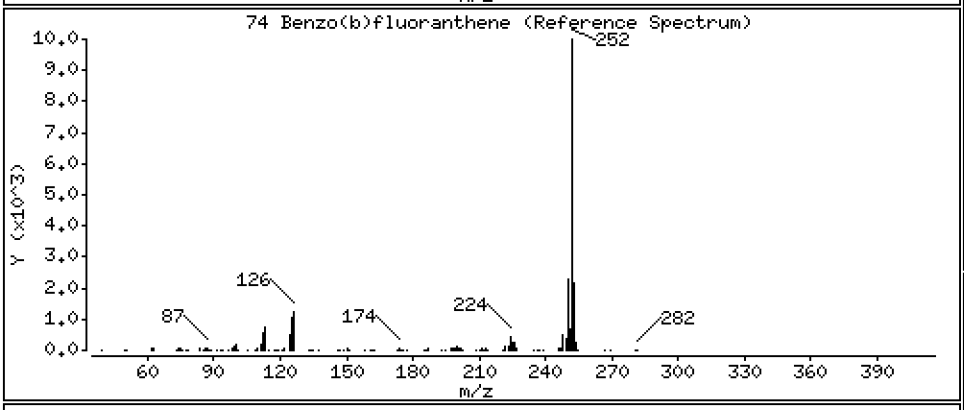
Column diameter: 0.25

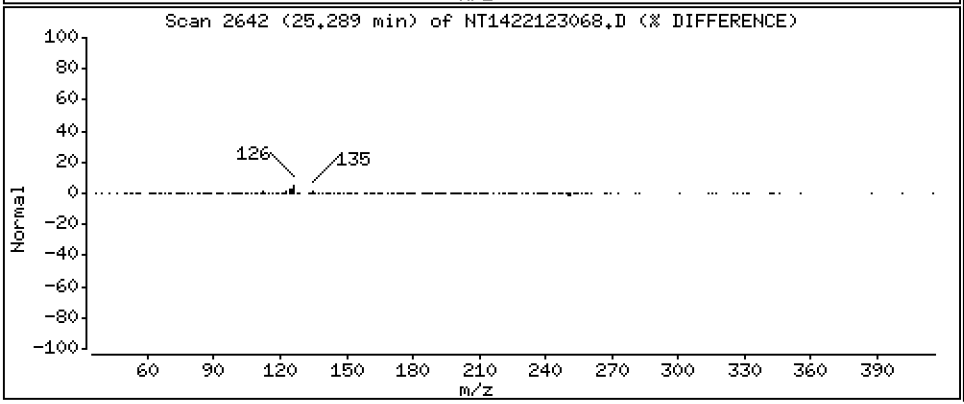
74 Benzo(b)fluoranthene

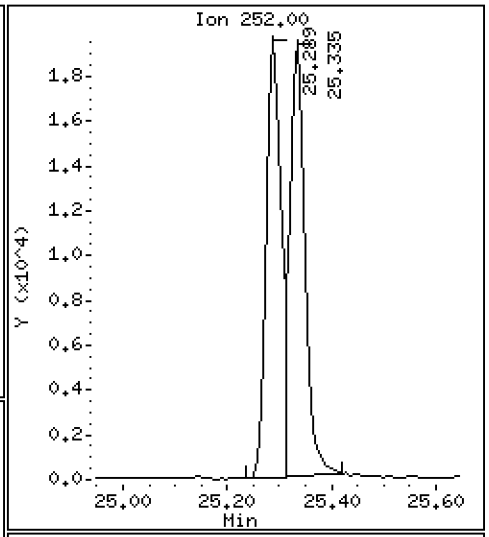
Concentration: 0.5437 ug/mL

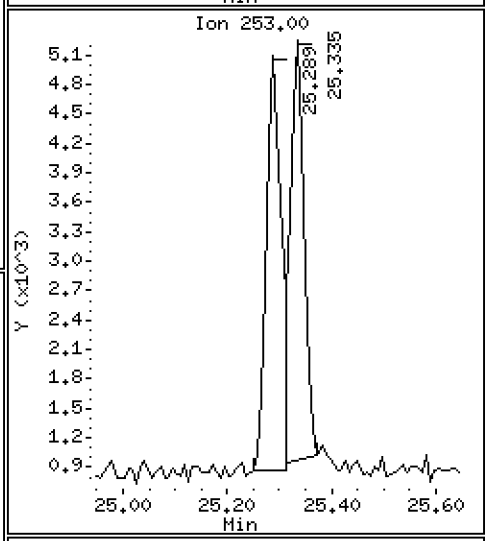


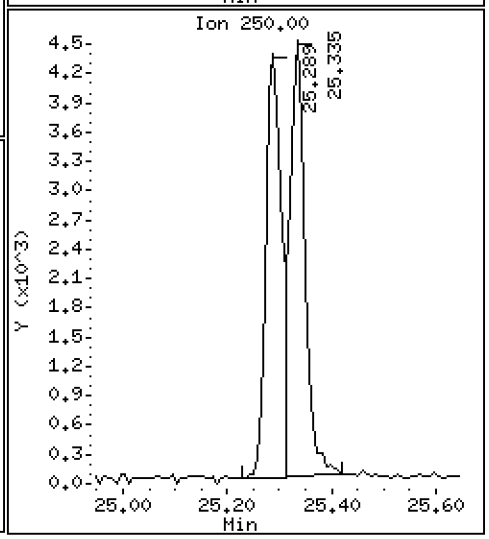












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

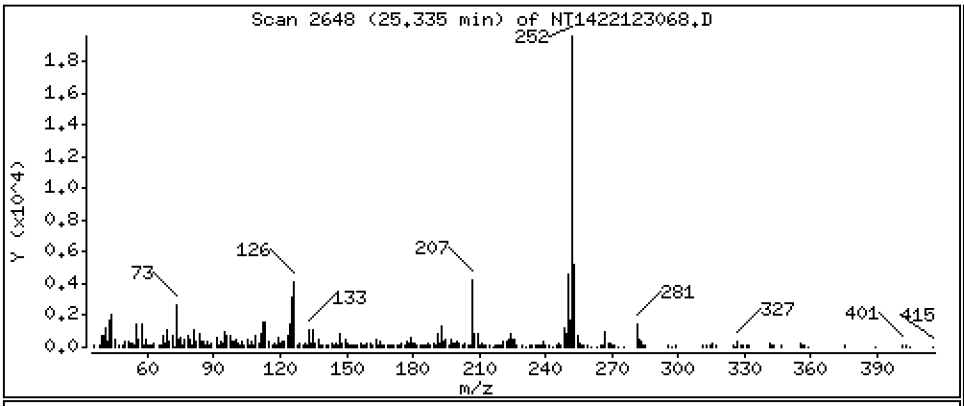
Operator: VTS

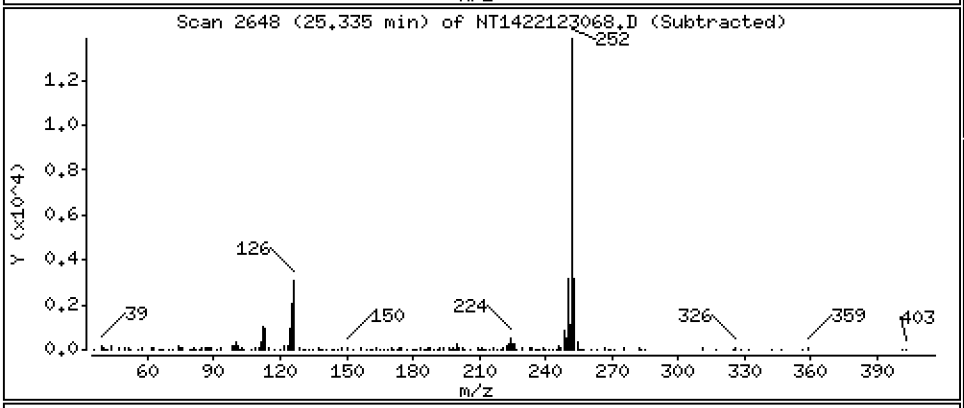
Column phase: ZB-5msi

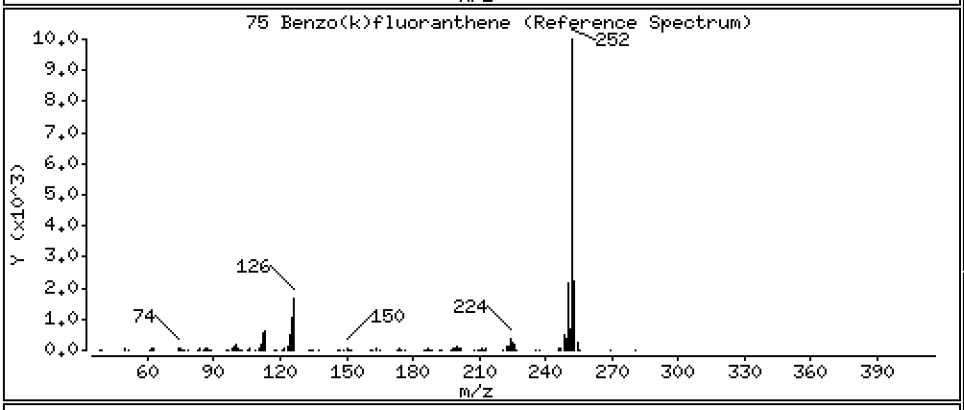
Column diameter: 0.25

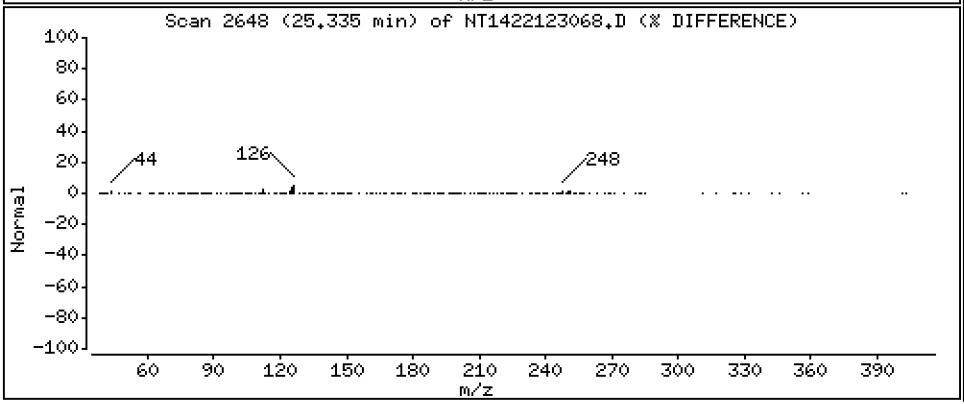
75 Benzo(k)fluoranthene

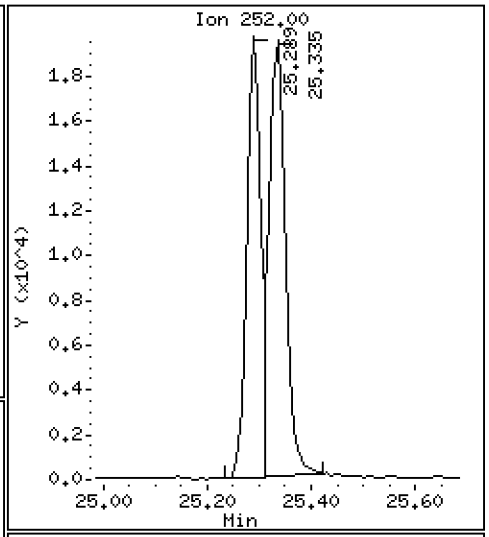
Concentration: 0.5702 ug/mL

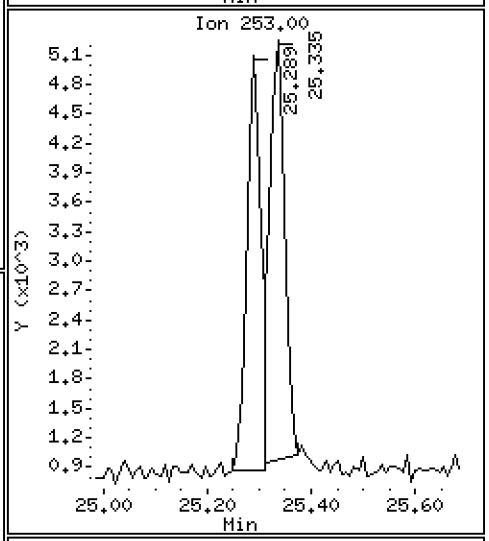


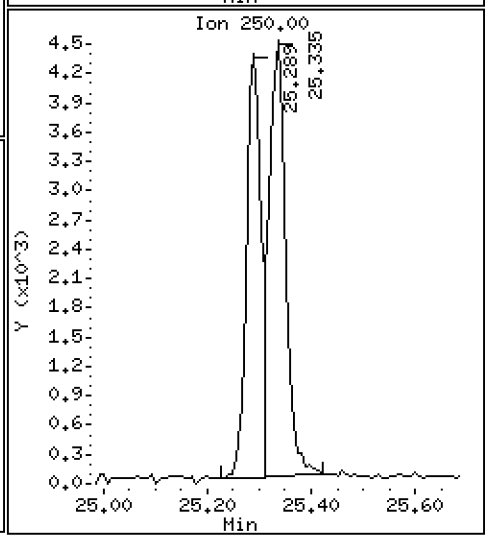












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

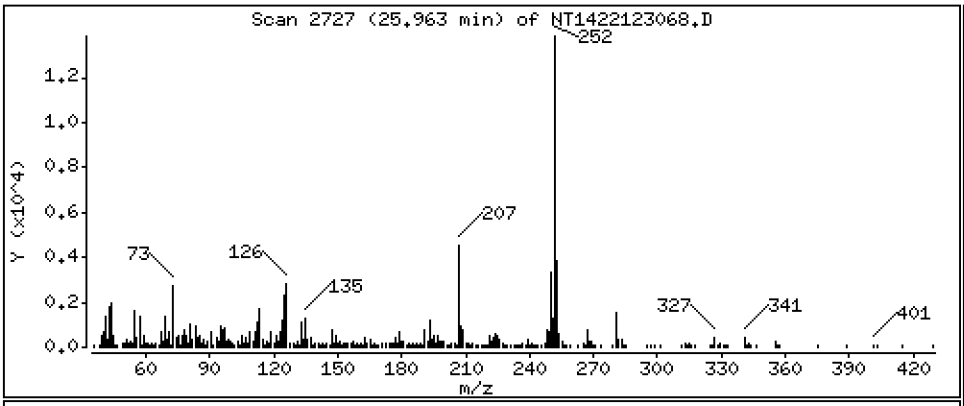
Operator: VTS

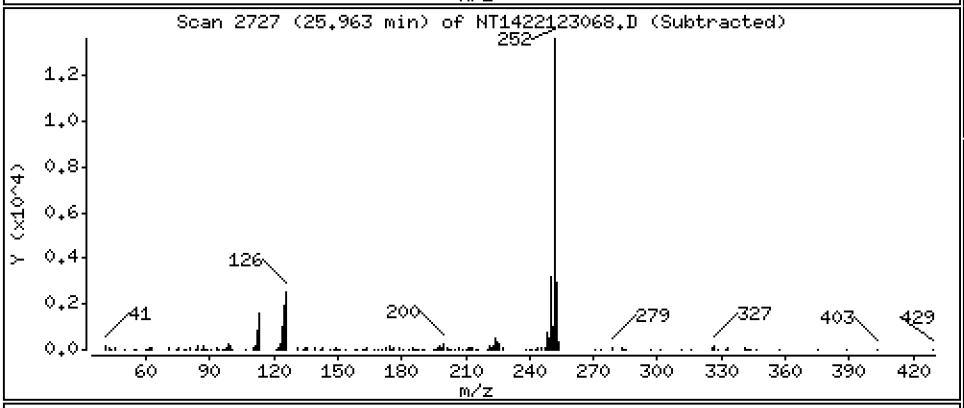
Column phase: ZB-5msi

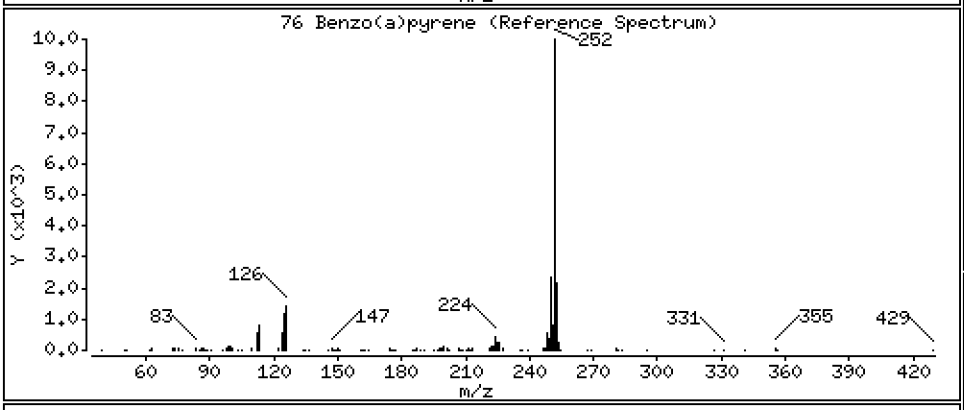
Column diameter: 0.25

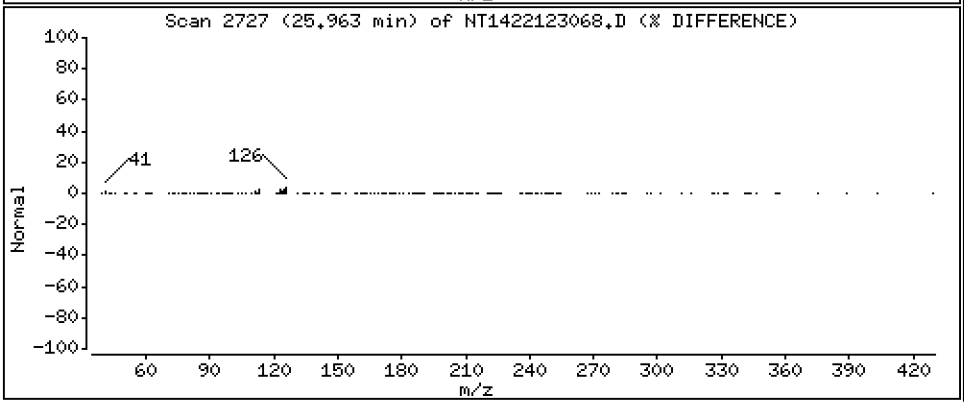
76 Benzo(a)pyrene

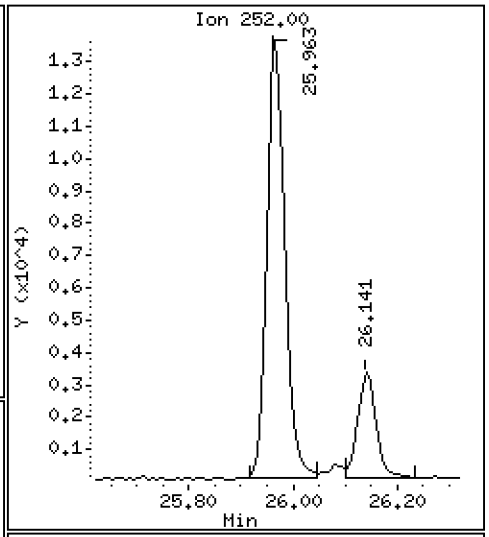
Concentration: 0.5296 ug/mL

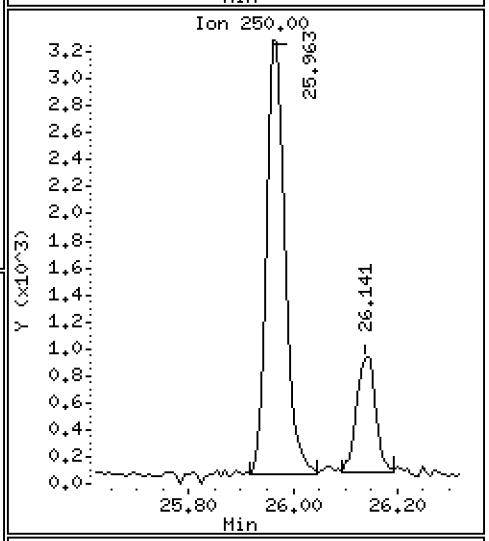


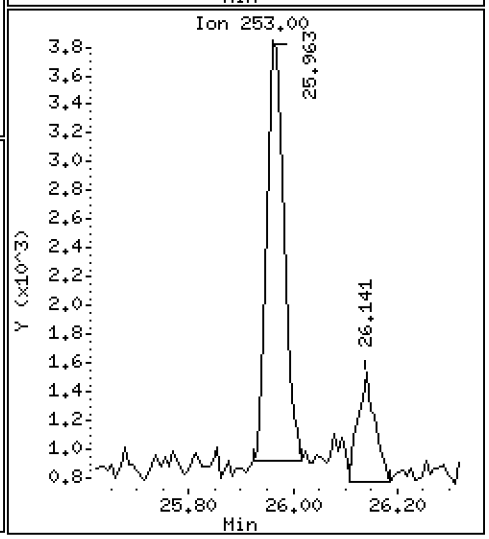












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

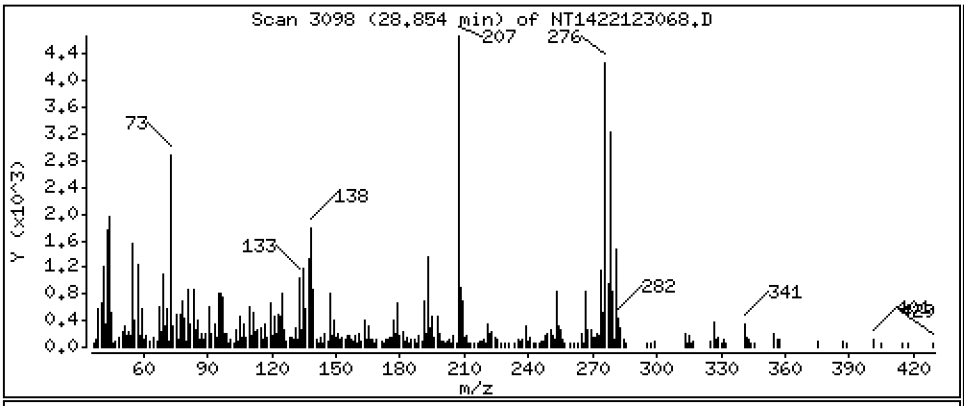
Operator: VTS

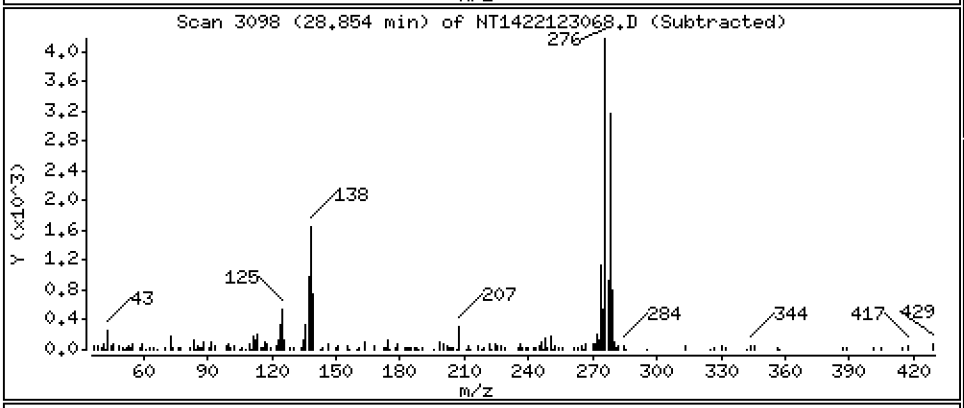
Column phase: ZB-5msi

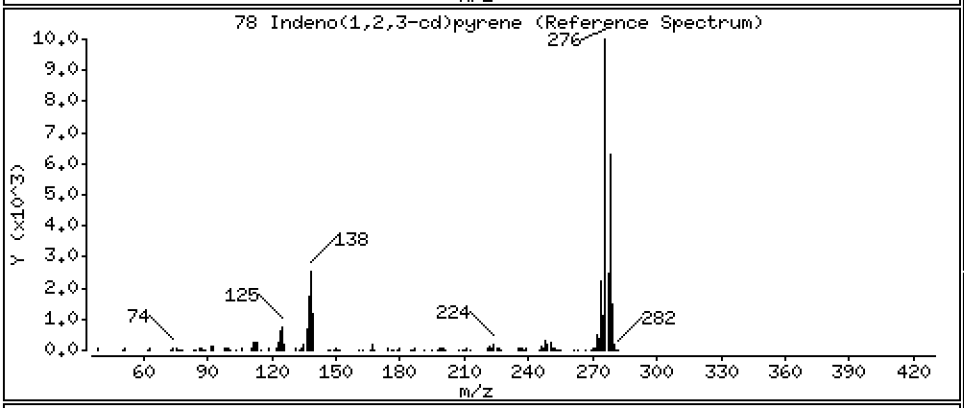
Column diameter: 0.25

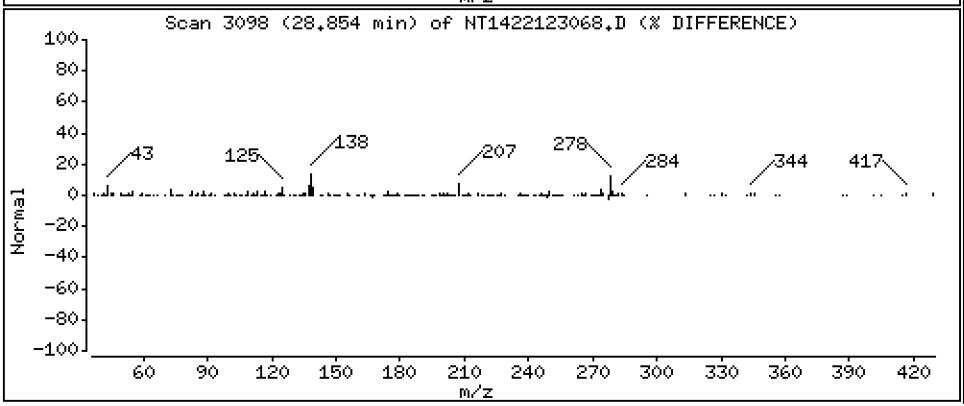
78 Indeno(1,2,3-cd)pyrene

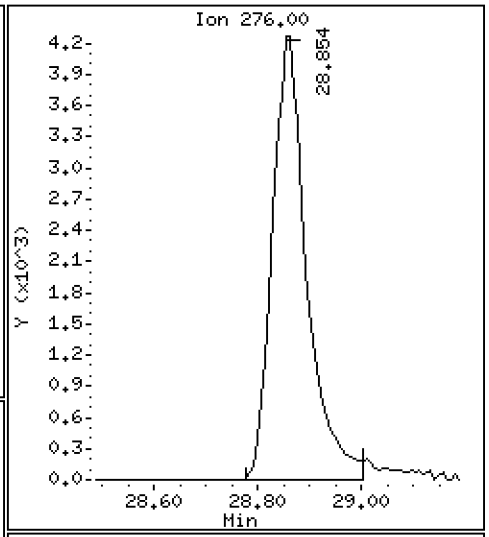
Concentration: 0.2876 ug/mL

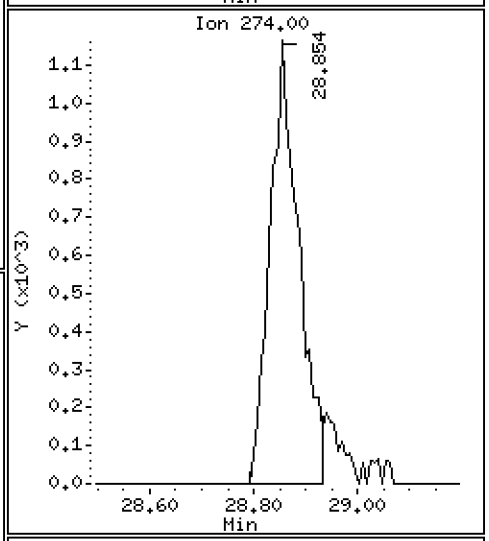


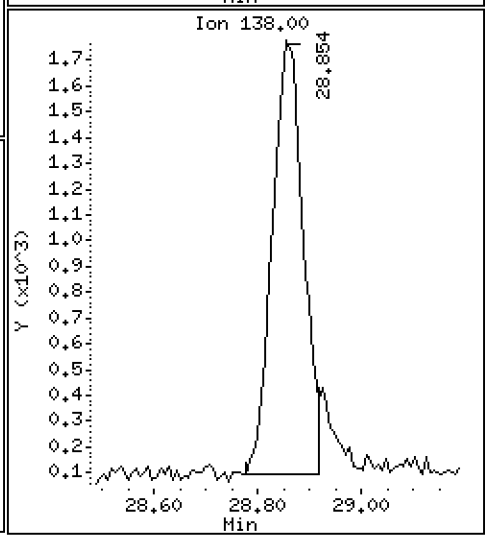












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

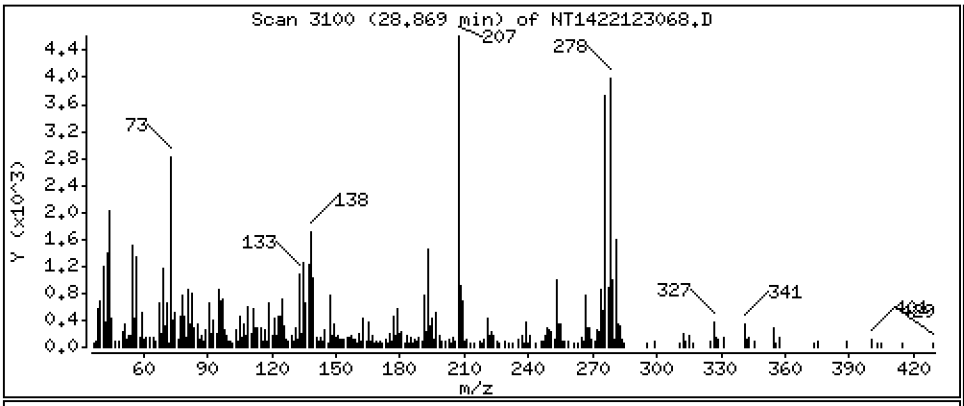
Operator: VTS

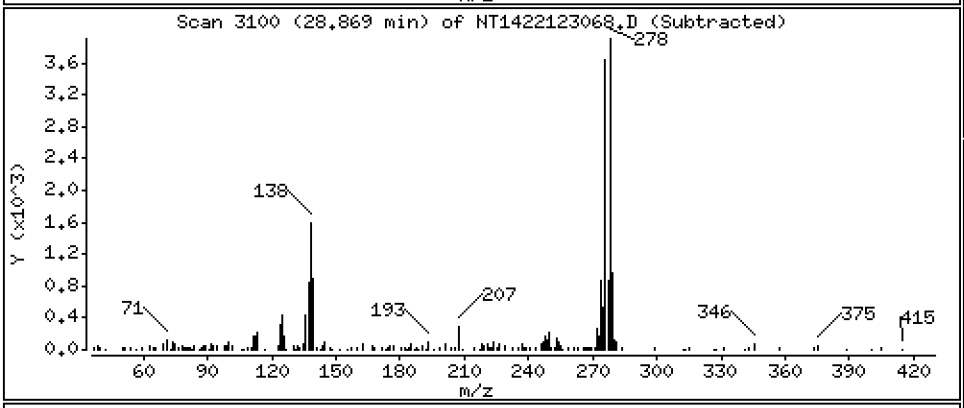
Column phase: ZB-5msi

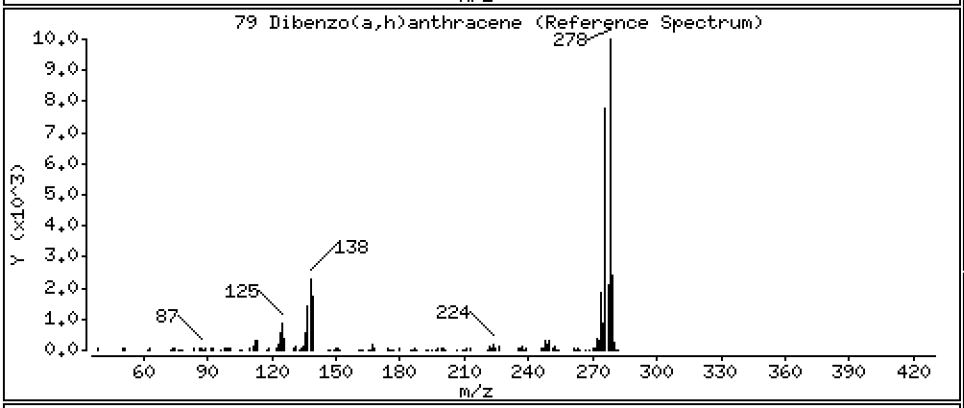
Column diameter: 0.25

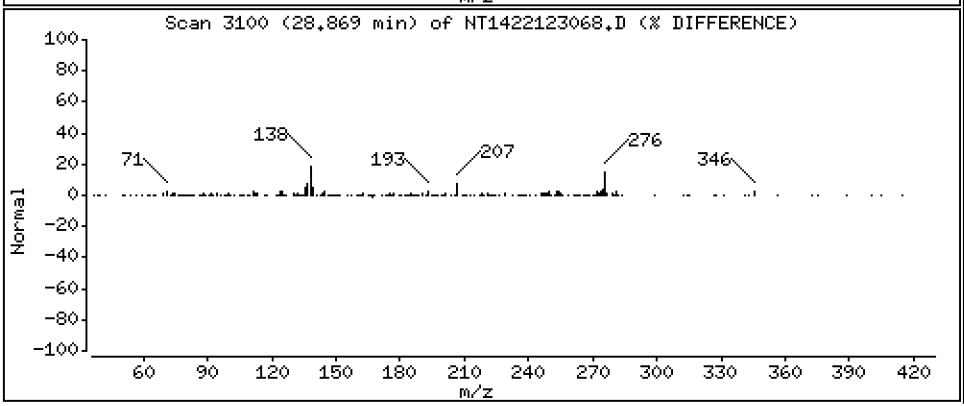
79 Dibenzo(a,h)anthracene

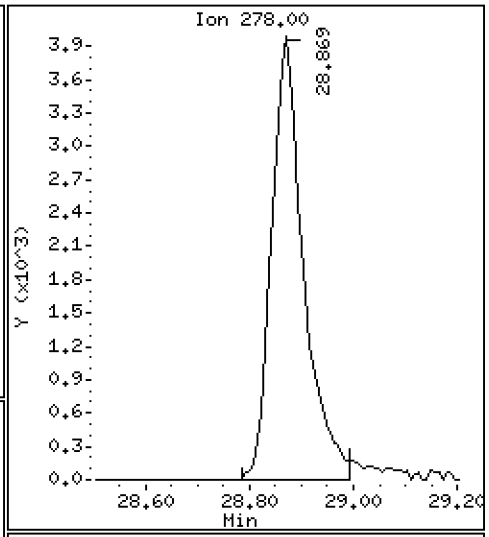
Concentration: 0.2950 ug/mL

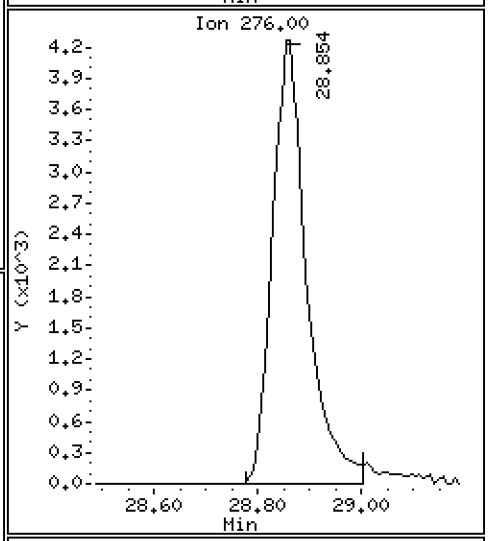


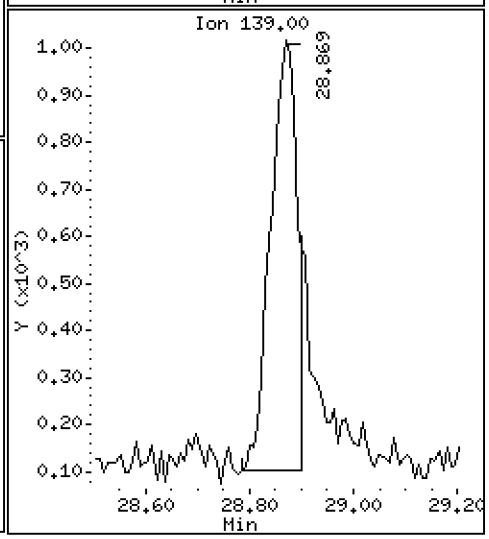












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

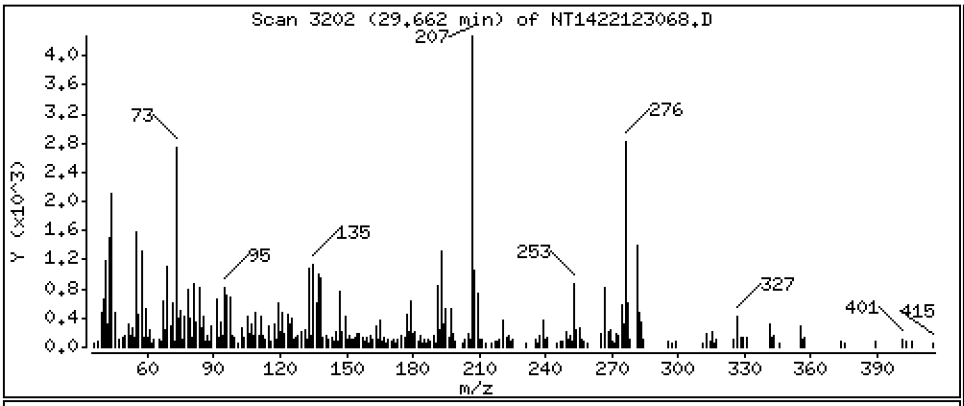
Operator: VTS

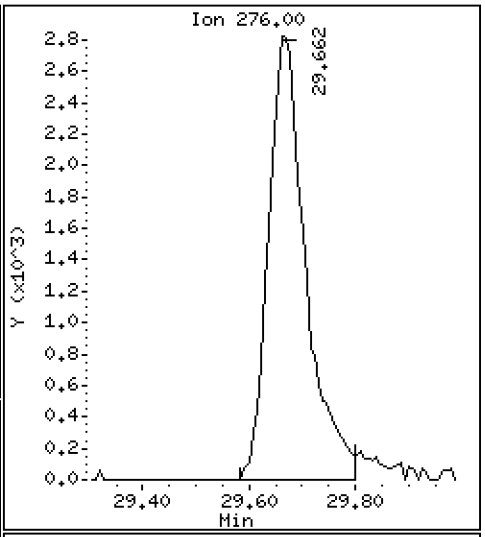
Column phase: ZB-5msi

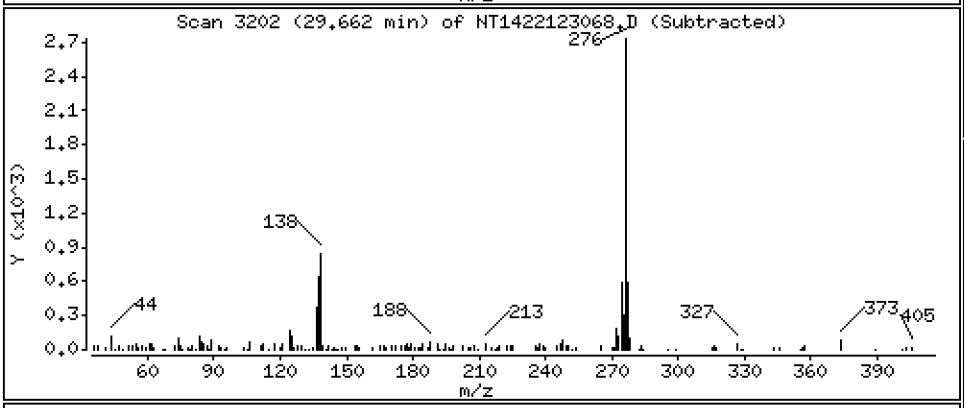
Column diameter: 0.25

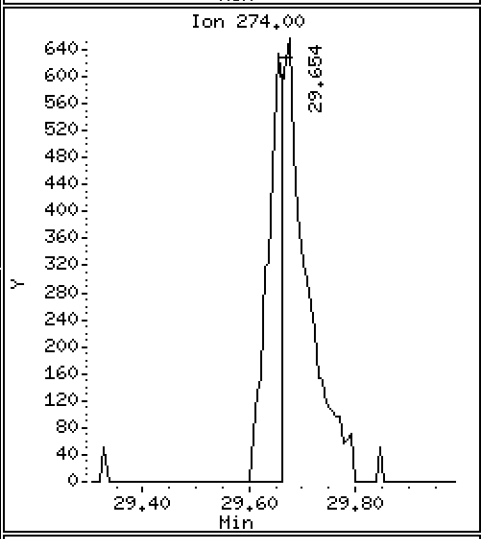
80 Benzo(g,h,i)perylene

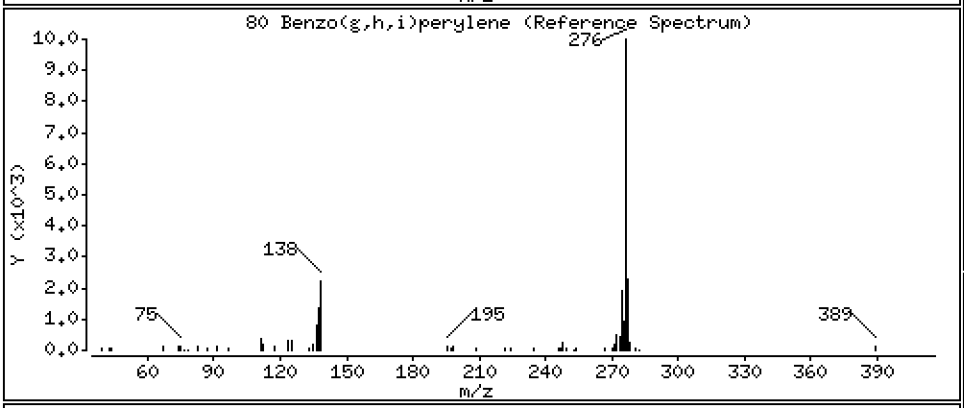
Concentration: 0.2408 ug/mL

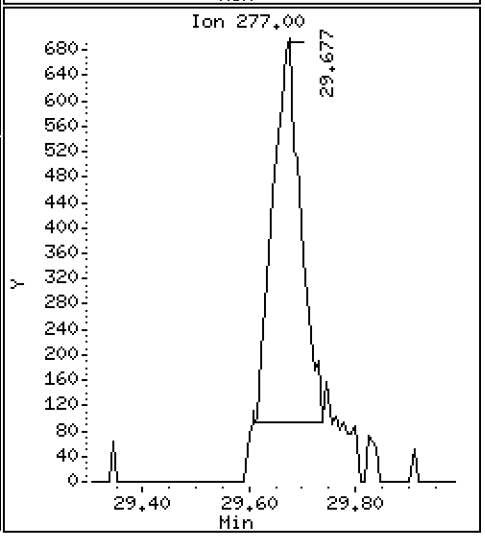


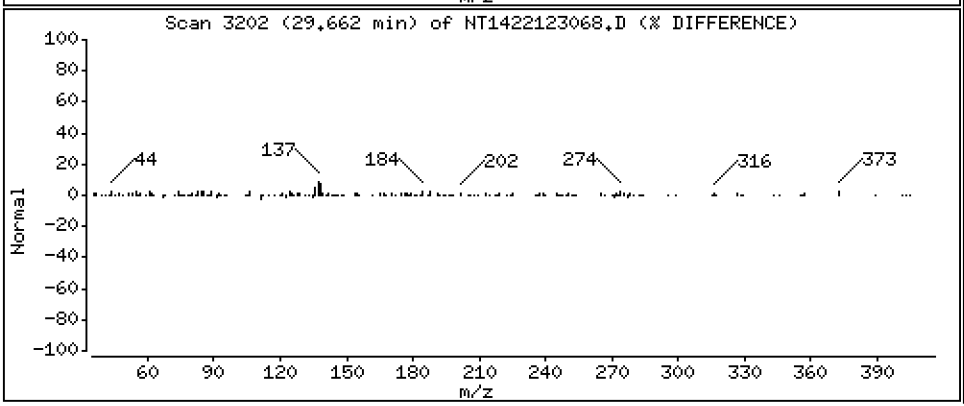












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

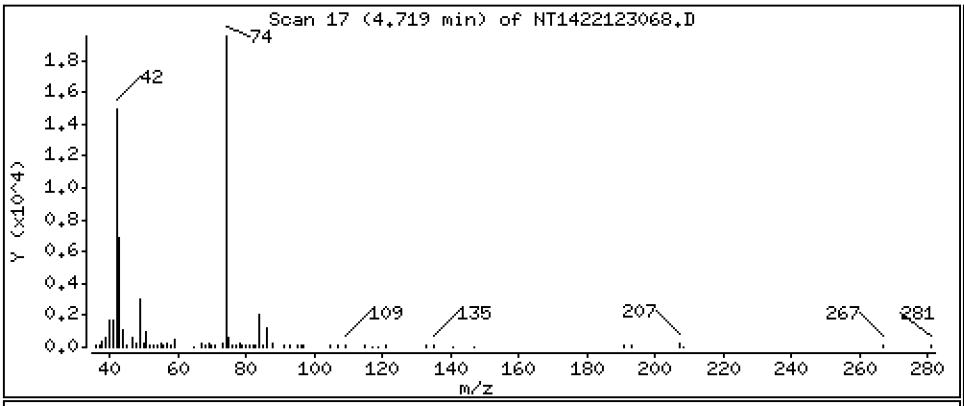
Operator: VTS

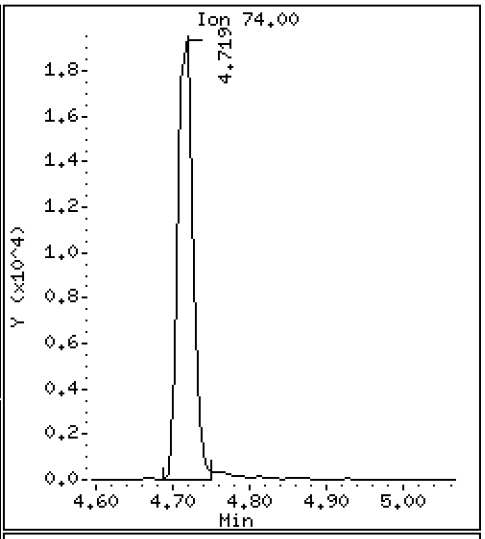
Column phase: ZB-5msi

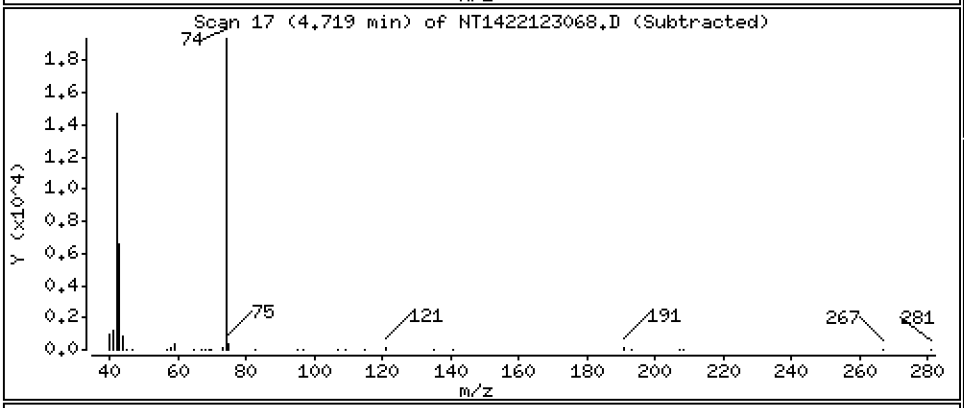
Column diameter: 0.25

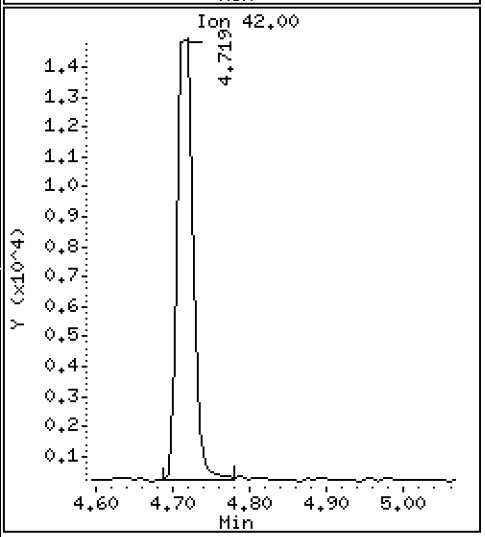
90 N-Nitrosodimethylamine

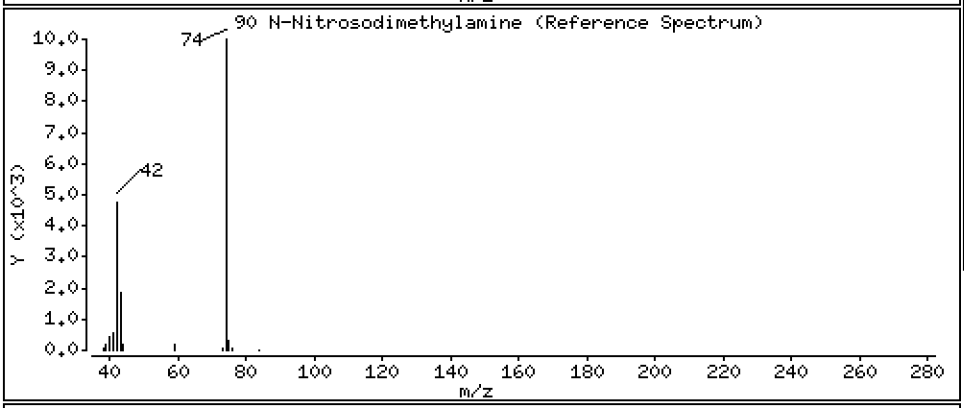
Concentration: 1.011 ug/mL

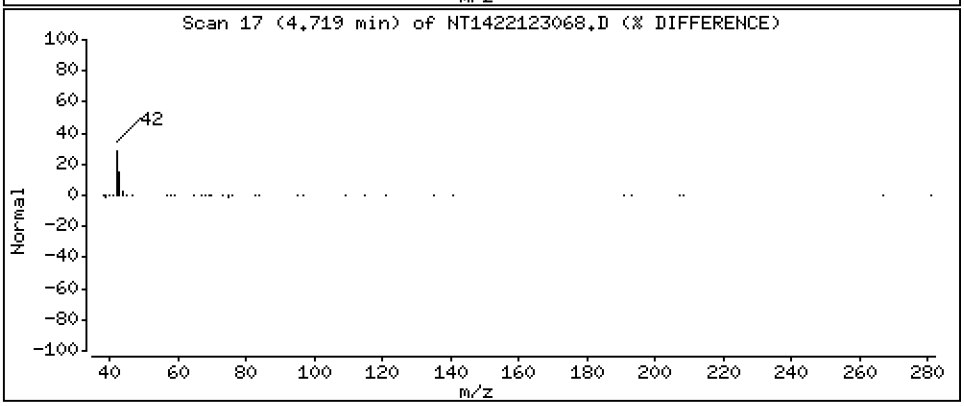












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

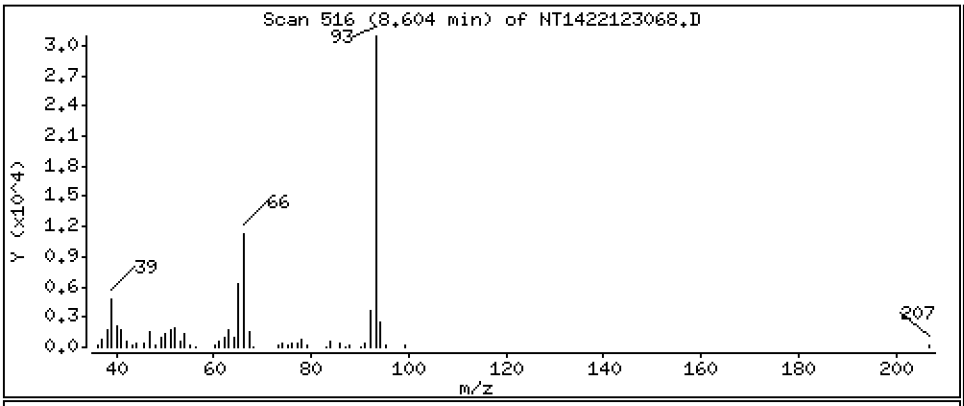
Operator: VTS

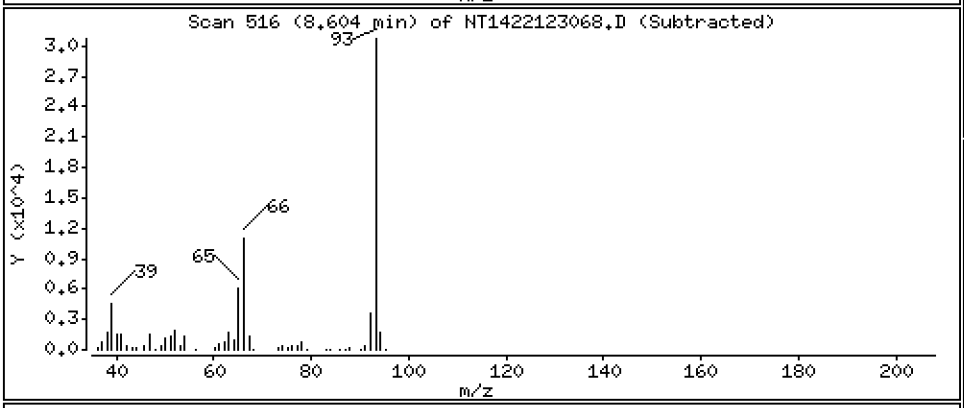
Column phase: ZB-5msi

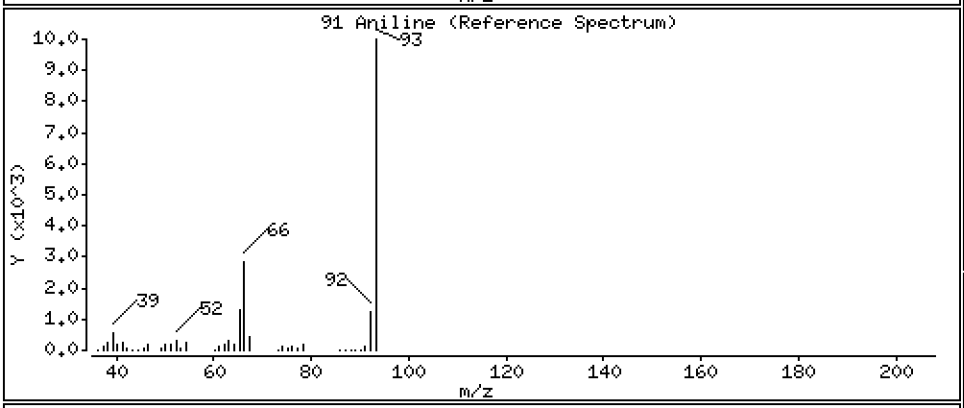
Column diameter: 0.25

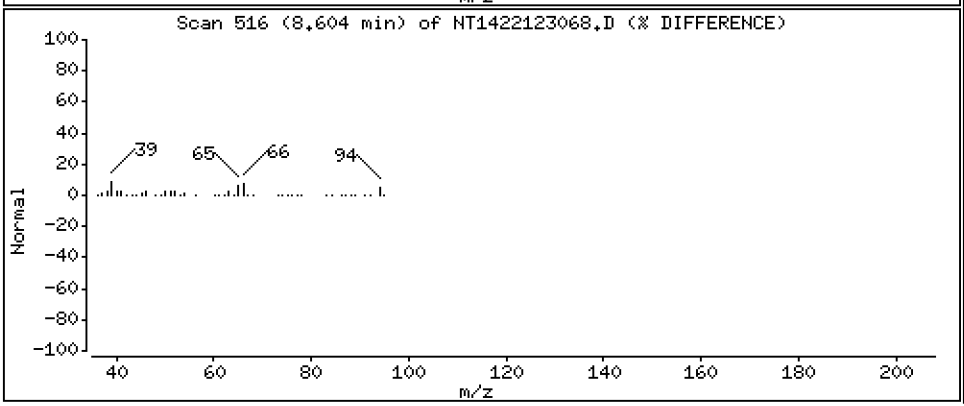
91 Aniline

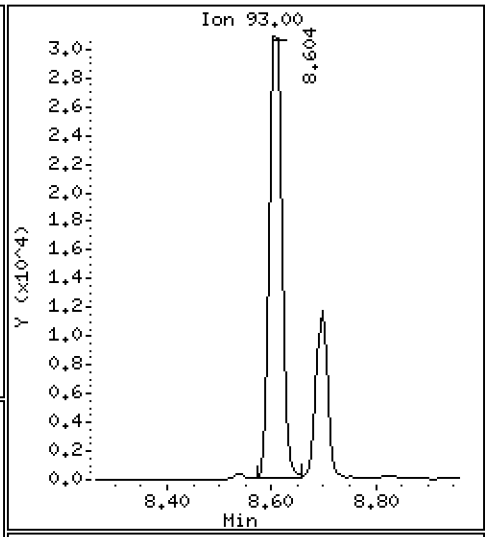
Concentration: 0.9709 ug/mL

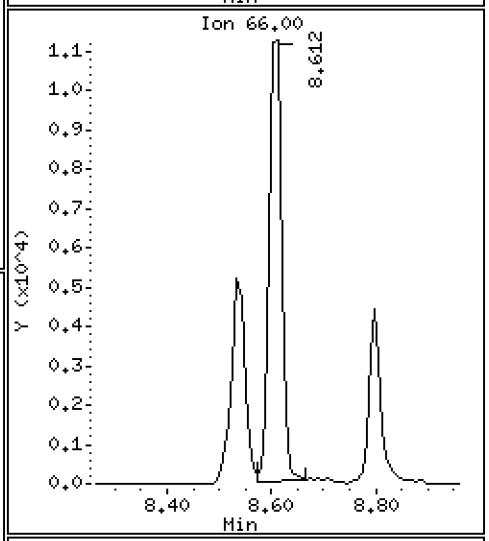


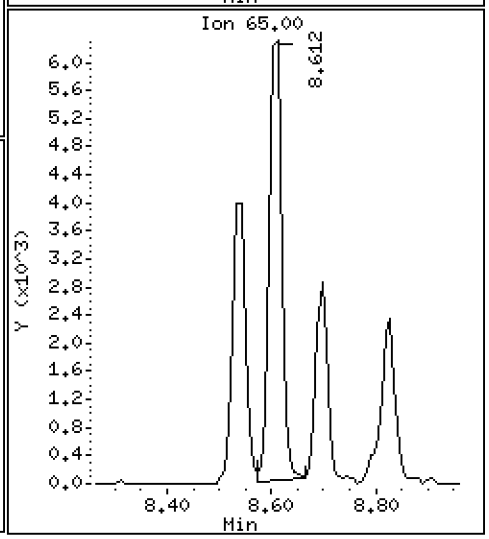












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

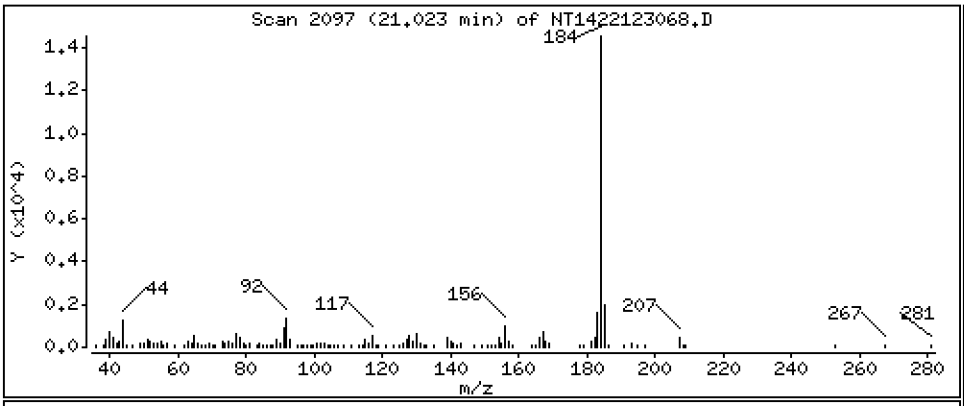
Operator: VTS

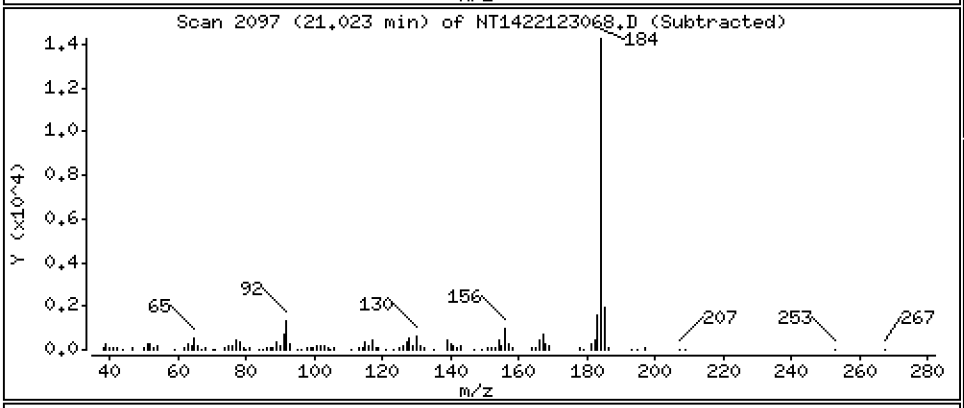
Column phase: ZB-5msi

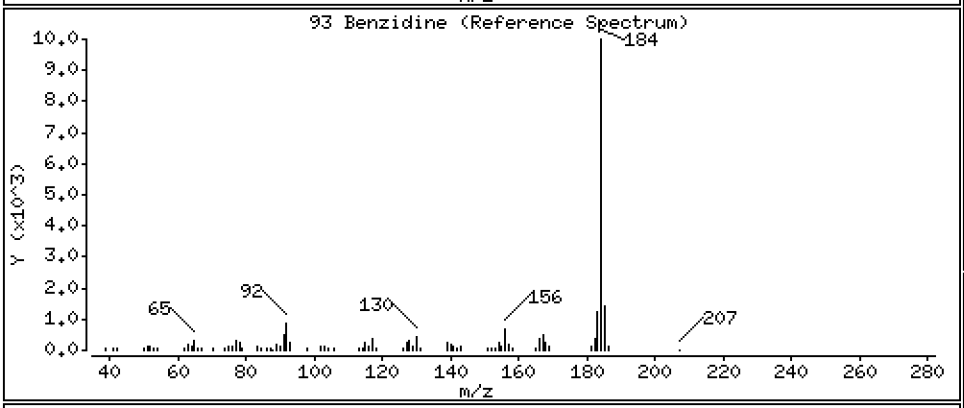
Column diameter: 0.25

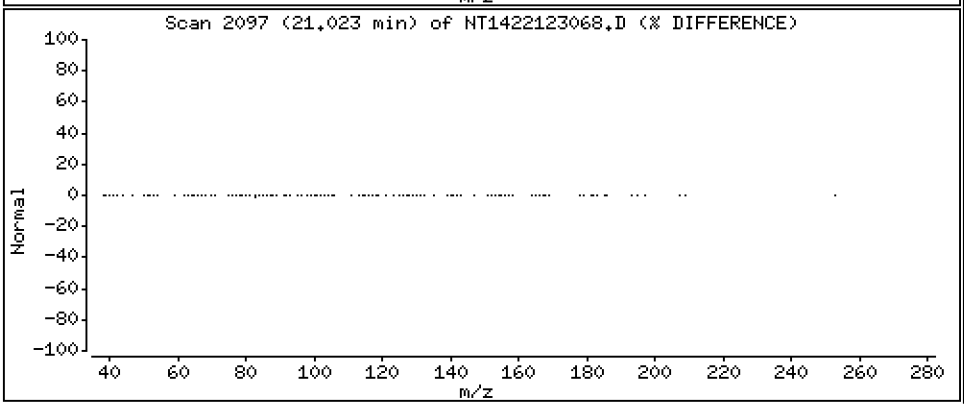
93 Benzidine

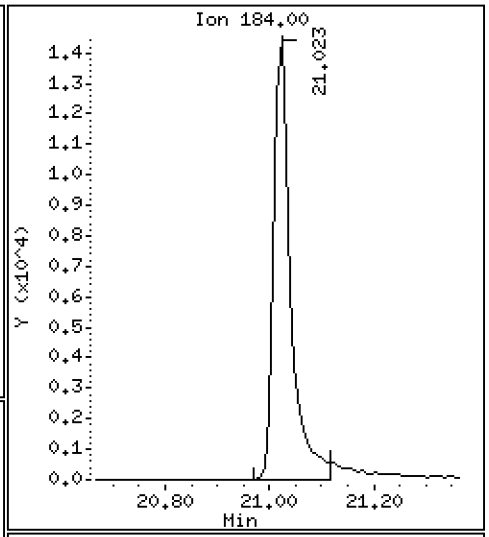
Concentration: 0.8853 ug/mL

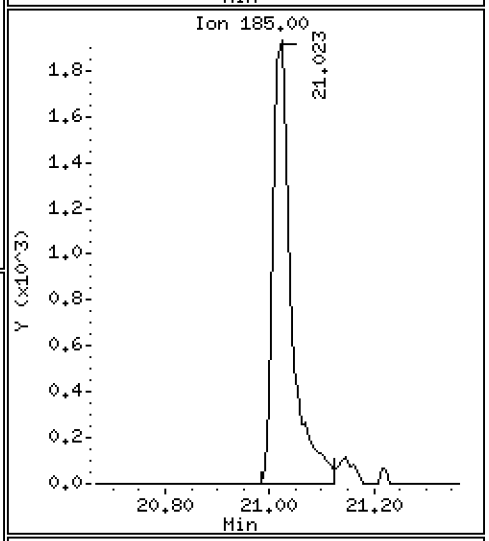


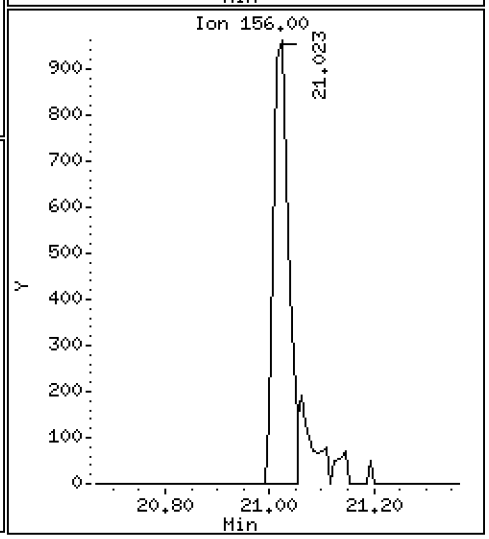












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

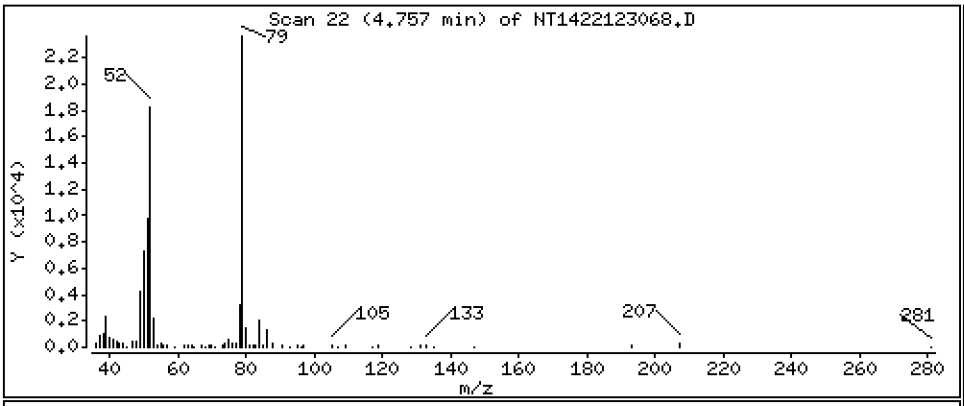
Operator: VTS

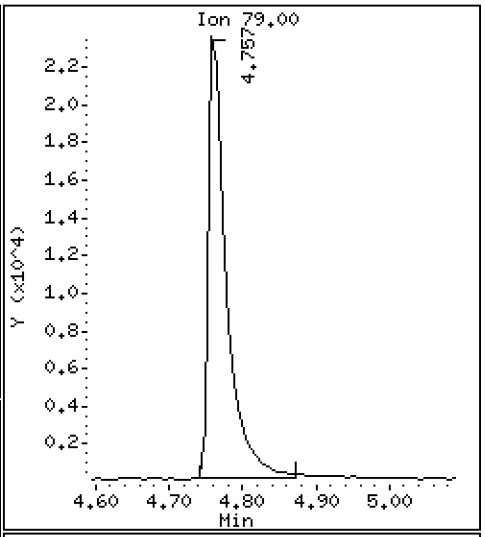
Column phase: ZB-5msi

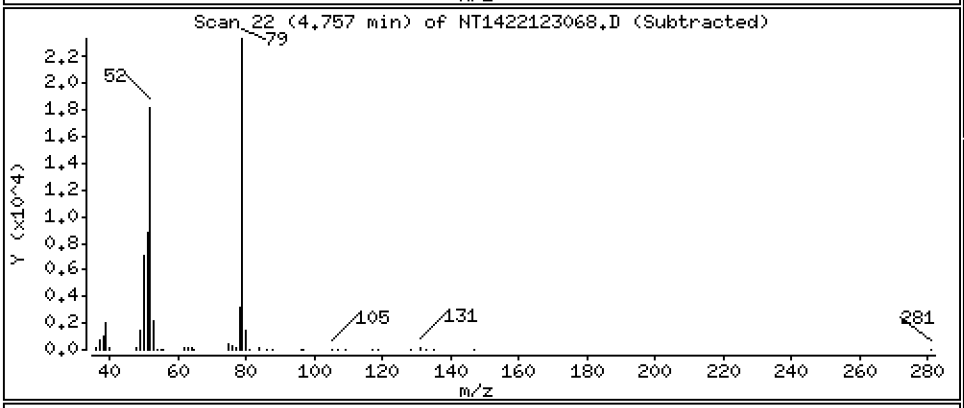
Column diameter: 0.25

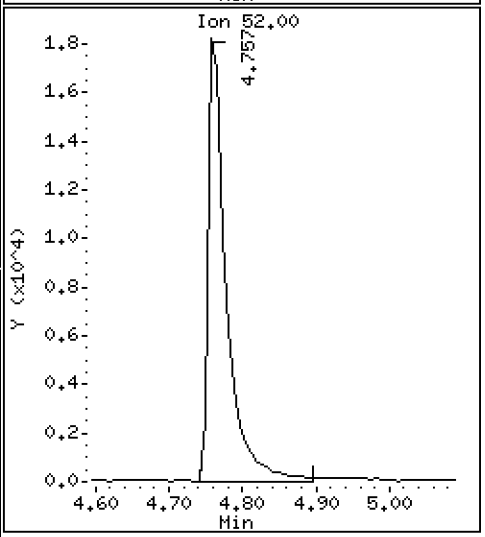
103 Pyridine

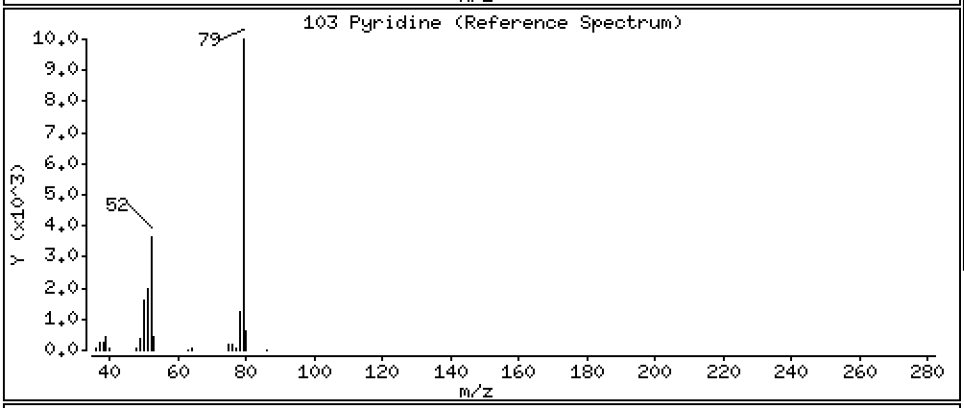
Concentration: 0.5018 ug/mL

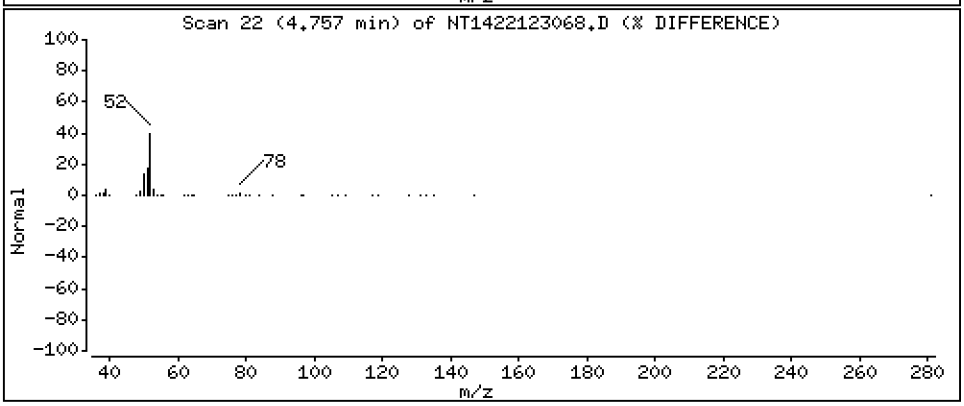












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

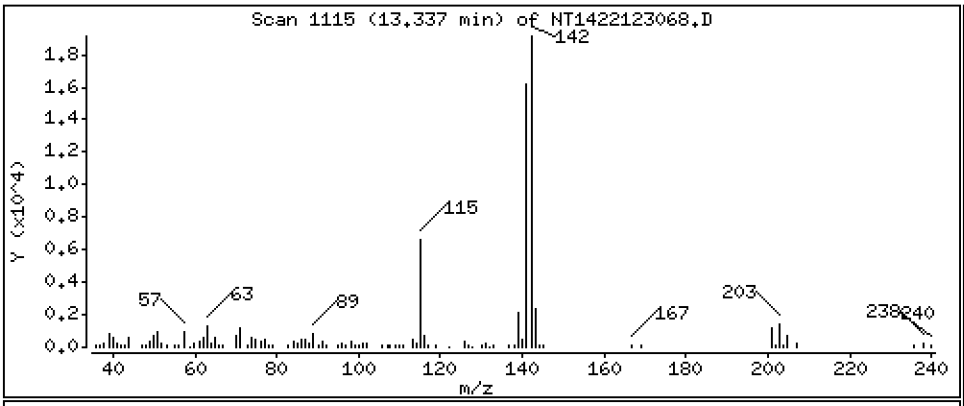
Operator: VTS

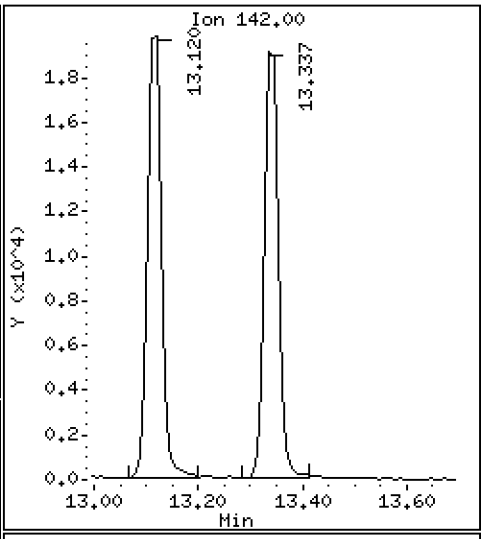
Column phase: ZB-5msi

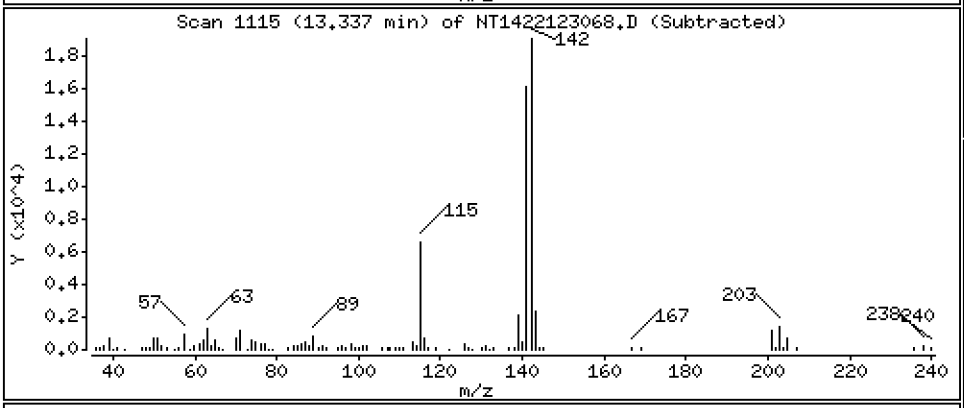
Column diameter: 0.25

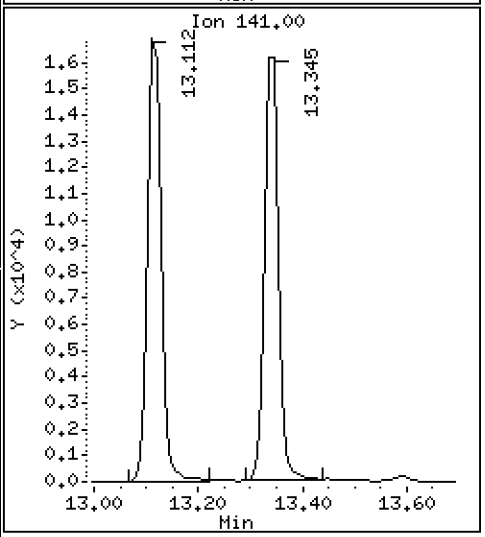
105 1-methylnaphthalene

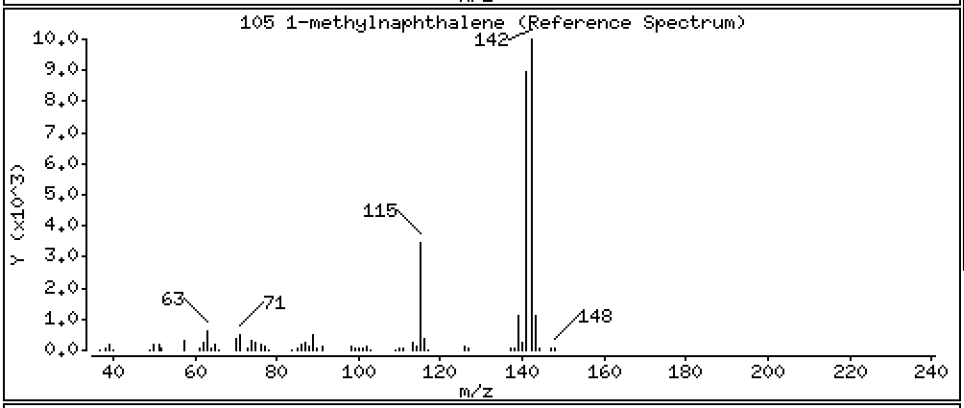
Concentration: 0.4742 ug/mL

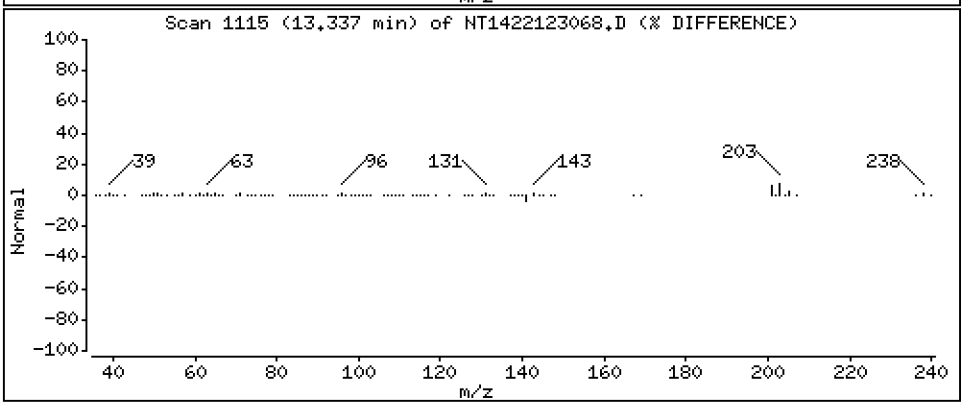












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

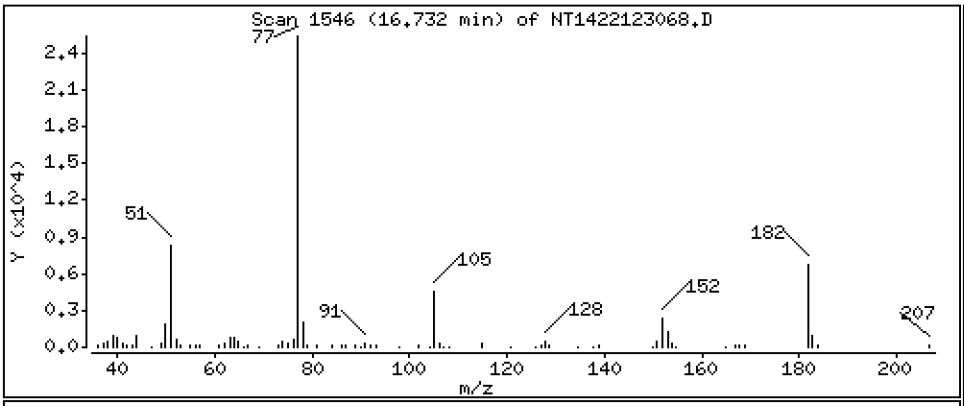
Operator: VTS

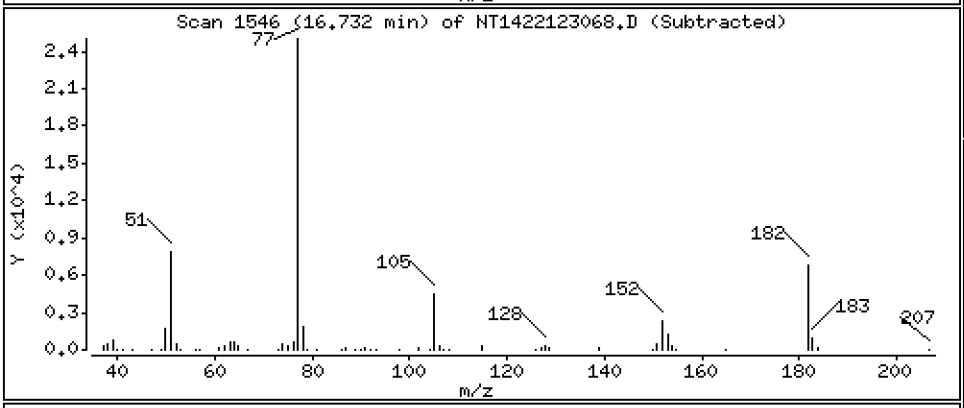
Column phase: ZB-5msi

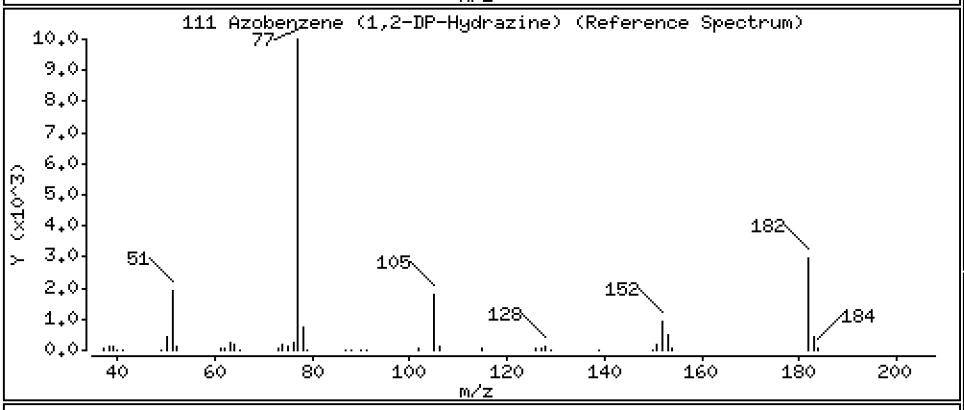
Column diameter: 0.25

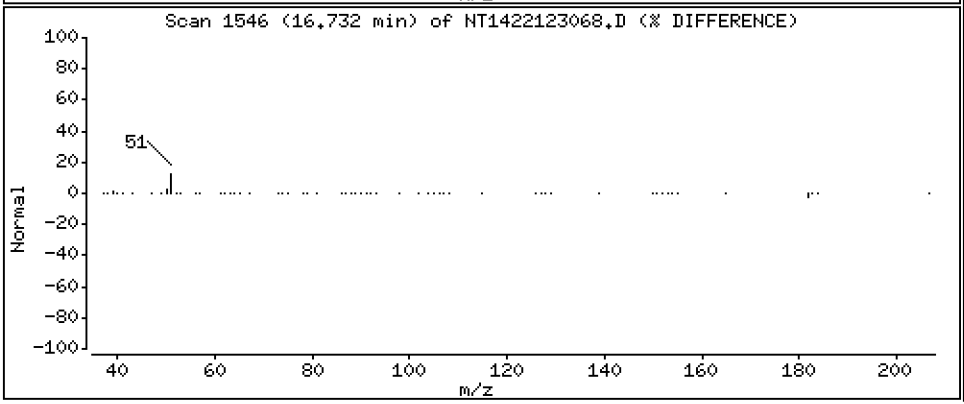
111 Azobenzene (1,2-DP-Hydrazine)

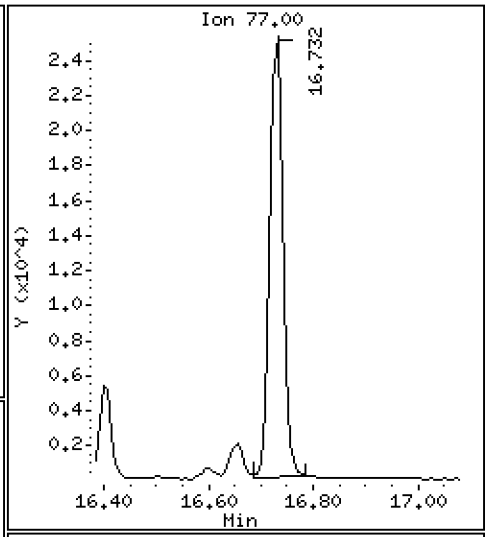
Concentration: 0.5334 ug/mL

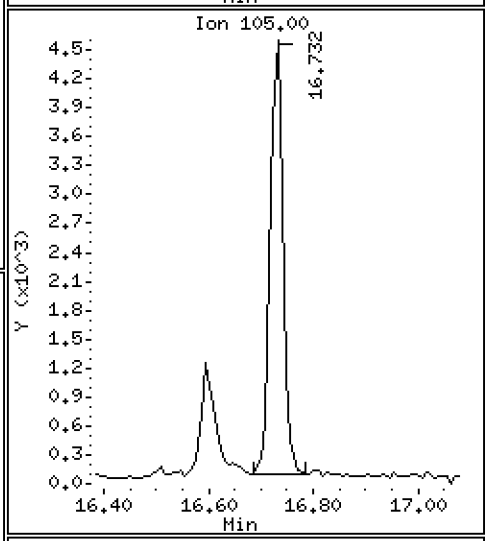


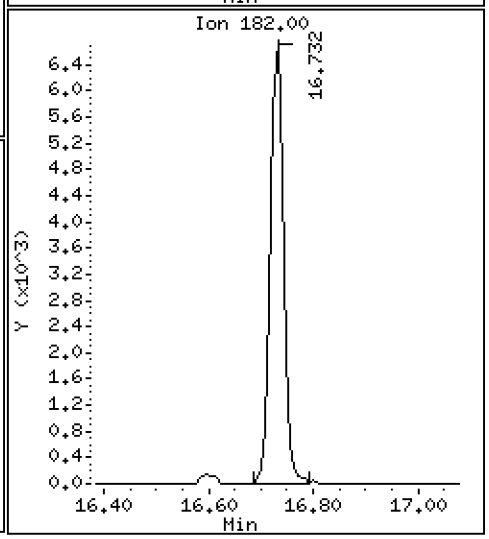












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

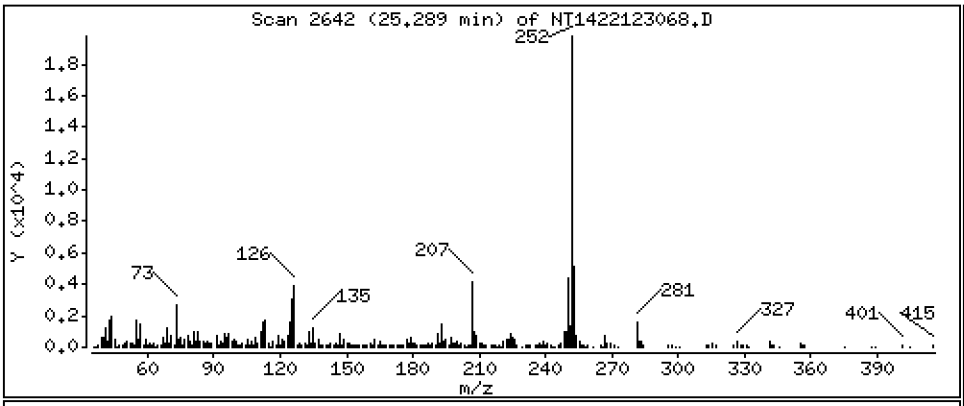
Operator: VTS

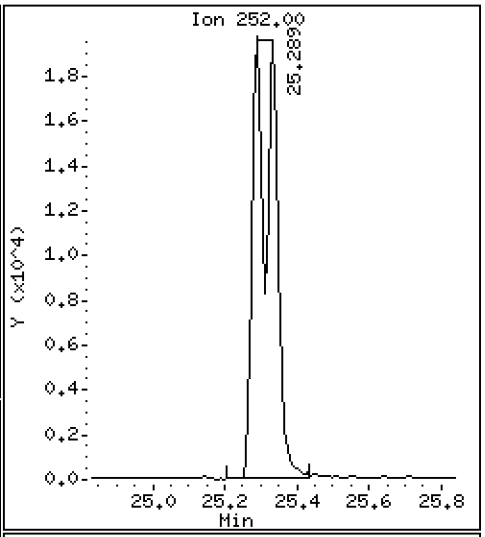
Column phase: ZB-5msi

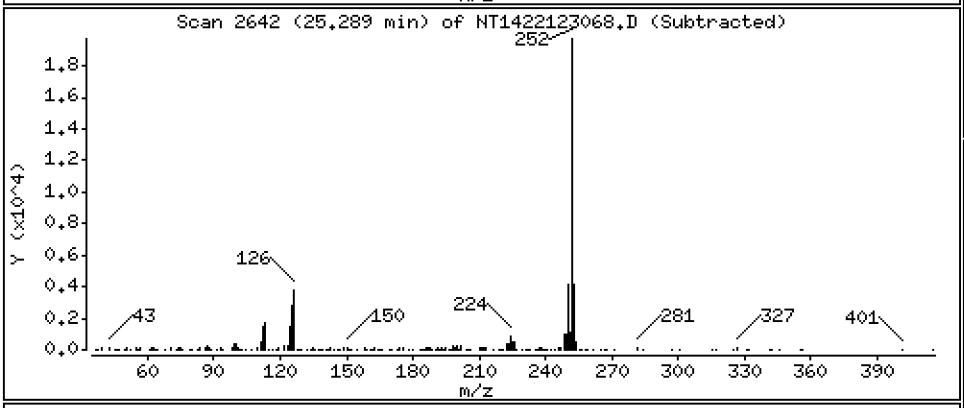
Column diameter: 0.25

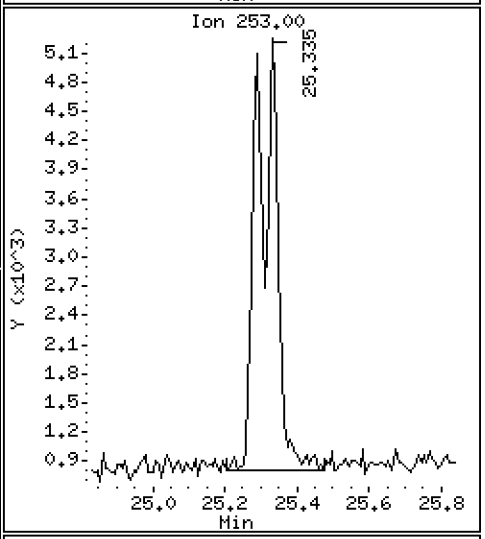
187 Total Benzofluoranthenes

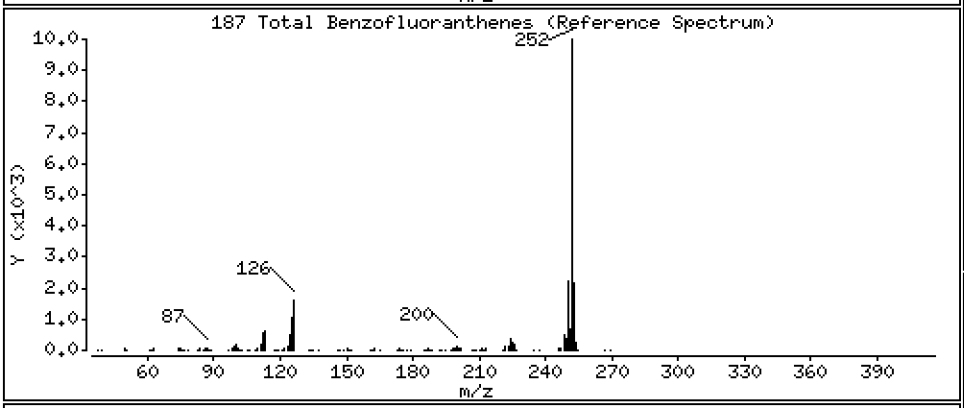
Concentration: 1.127 ug/mL

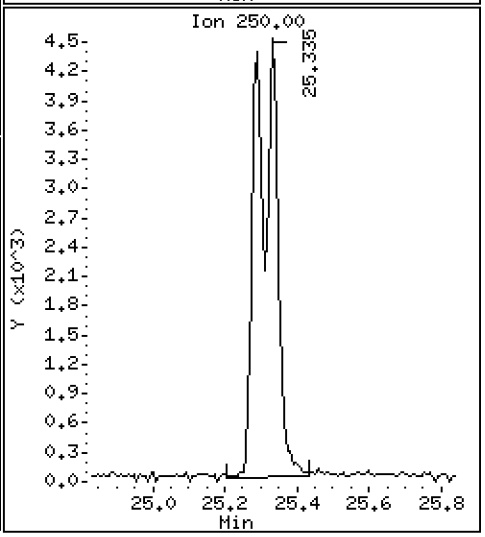


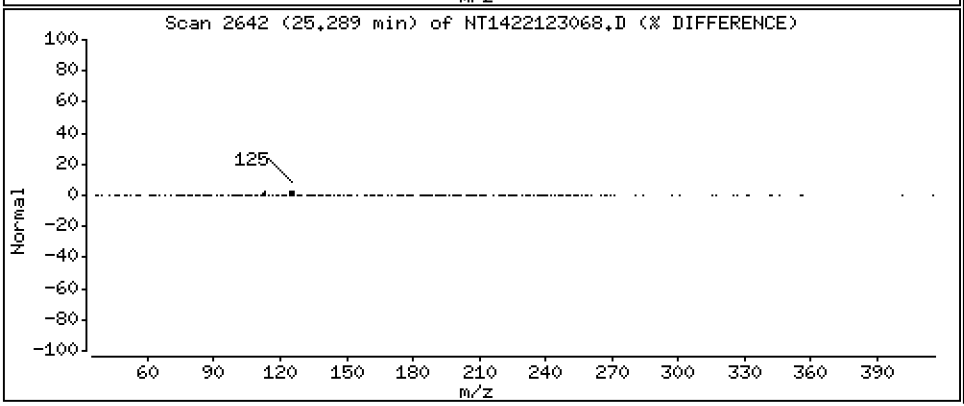












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

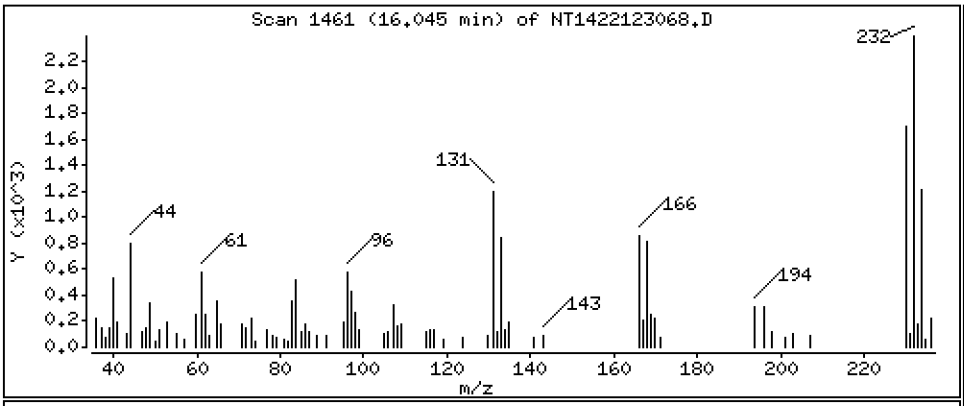
Operator: VTS

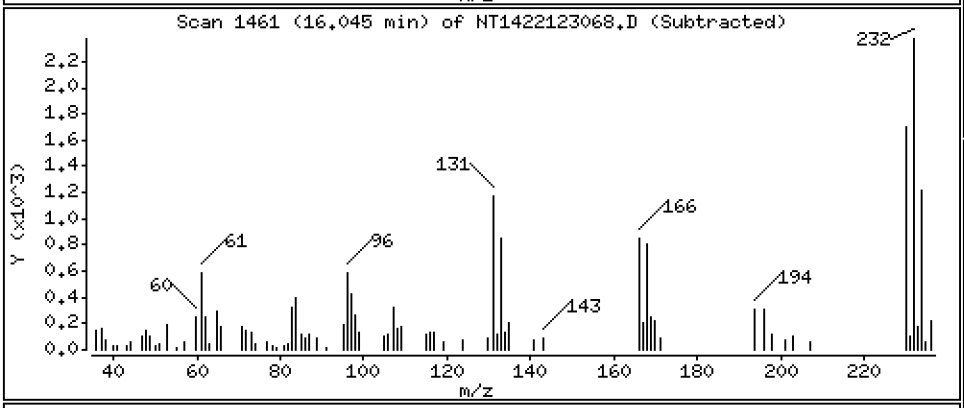
Column phase: ZB-5msi

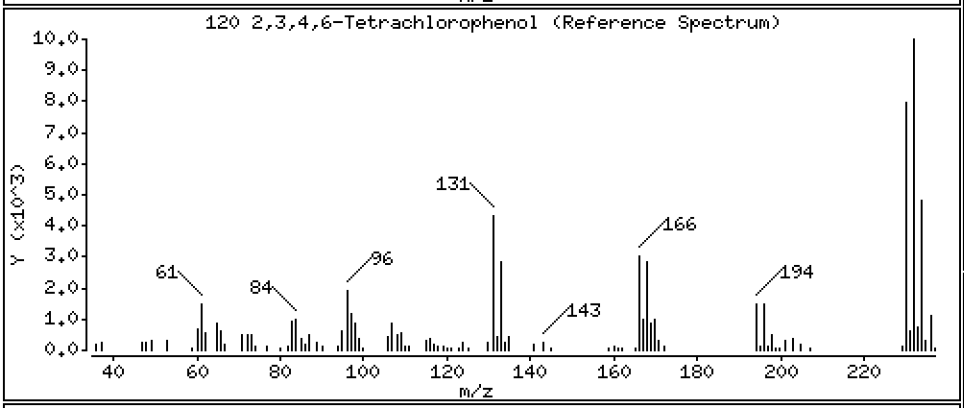
Column diameter: 0.25

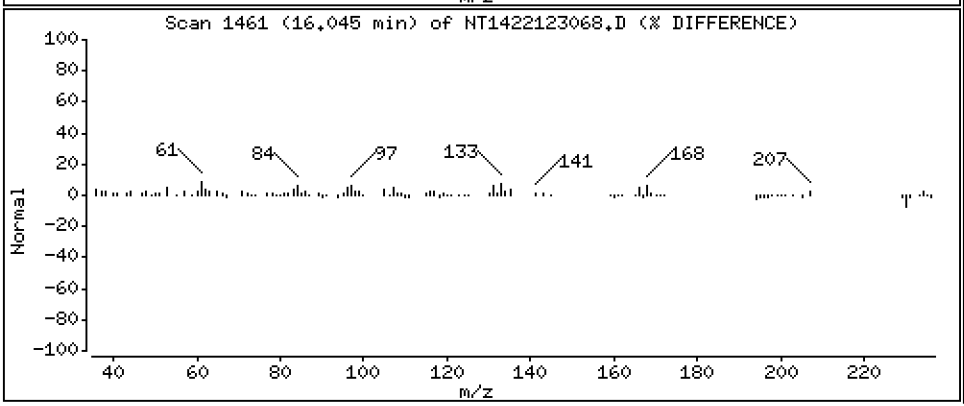
120 2,3,4,6-Tetrachlorophenol

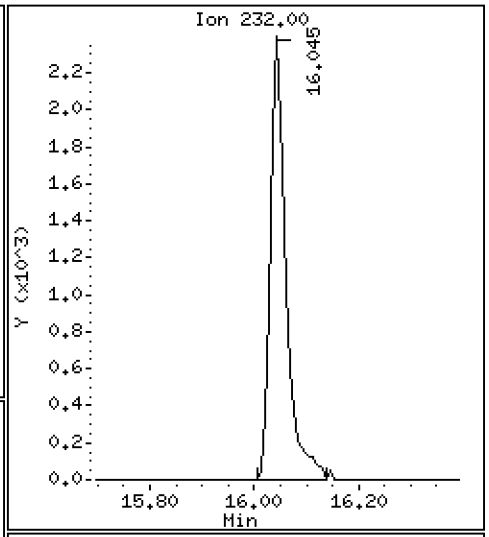
Concentration: 0.3210 ug/mL

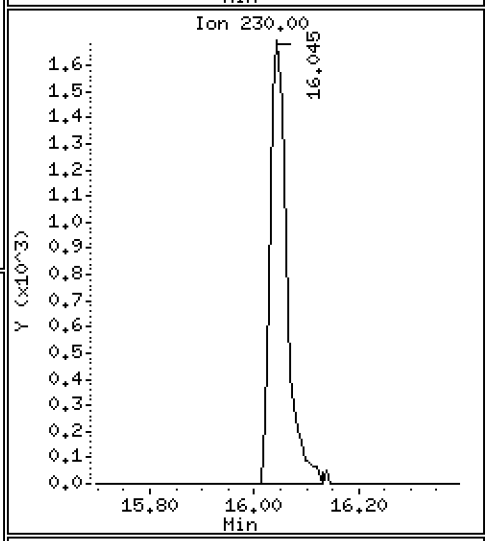


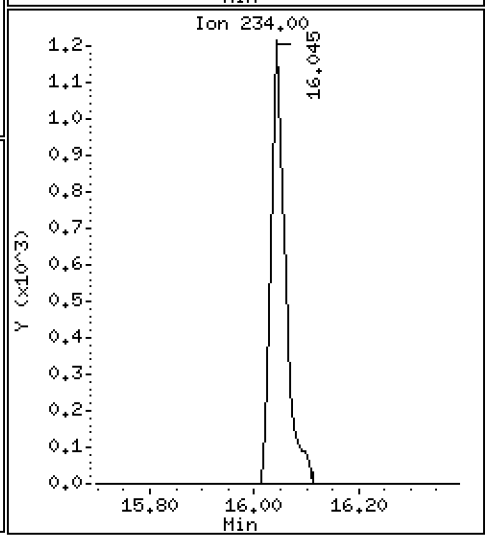












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	26679	0.73231	0.7323
$	2 Phenol-d5	99	8.519	8.519	(0.930)	29740	0.66056	0.6606
	3 Phenol	94	8.542	8.542	(0.932)	24851	0.48577	0.4858
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	26376	0.69756	0.6976
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	16971	0.48157	0.4816
	6 2-Chlorophenol	128	8.828	8.827	(0.964)	21442	0.51635	0.5163
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	21932	0.49807	0.4981
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	113715	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	21144	0.50685	0.5068
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	12409	0.48016	0.4802
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	20298	0.49614	0.4961
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	8811	0.38688	0.3869
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	5608	0.47279	0.4728(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	18106	0.48706	0.4871
	17 Hexachloroethane	117	10.154	10.154	(1.108)	6330	0.41257	0.4126
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	11492	0.50748	0.5075
	15 4-Methylphenol	108	9.937	9.936	(1.085)	18249	0.46535	0.4654
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	16843	0.48307	0.4831
	19 Nitrobenzene	77	10.293	10.301	(0.882)	16249	0.46925	0.4693
	20 Isophorone	82	10.751	10.751	(0.922)	19966	0.45240	0.4524
	21 2-Nitrophenol	139	10.938	10.937	(0.938)	10030	0.47315	0.4732
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	35304	0.97686	0.9769
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	16990	0.49487	0.4949
	24 Benzoic acid	105	11.093	11.209	(0.951)	9855	0.44771	0.4477
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	29244	0.95995	0.9599
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	16108	0.48901	0.4890
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	412900	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	49324	0.48541	0.4854
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	37233	0.88851	0.8885
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	7808	0.47774	0.4777
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.099)	27298	0.94955	0.9495
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	34703	0.46559	0.4656
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	2182	0.13732	0.1373

		QUANT SIG					CONCENTRATIONS ON-COLUMN	FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
35	2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
$ 36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
37	2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
38	2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
39	Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
40	Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
* 42	Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
43	3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
44	Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
45	2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232(M)
46	Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
47	4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719(M)
48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
50	Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
49	Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
52	4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
53	4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
$ 55	2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
57	Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
58	Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
* 59	Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
60	Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
61	Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
62	Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
63	Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
64	Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
65	Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
$ 66	Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
* 69	Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
71	Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
* 134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
* 77	Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
79	Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
80	Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
91	Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
93	Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
103	Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
105	1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:42

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

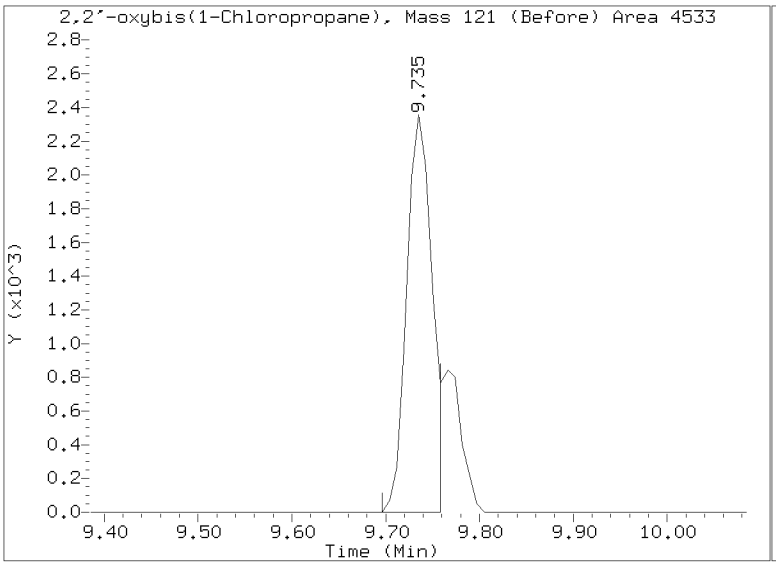
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

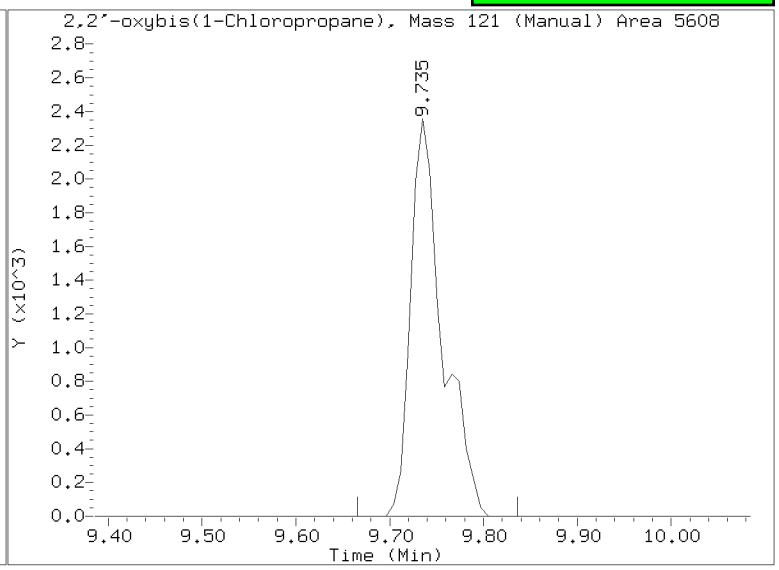
* Only compounds listed in the work order have been verified by the analyst *

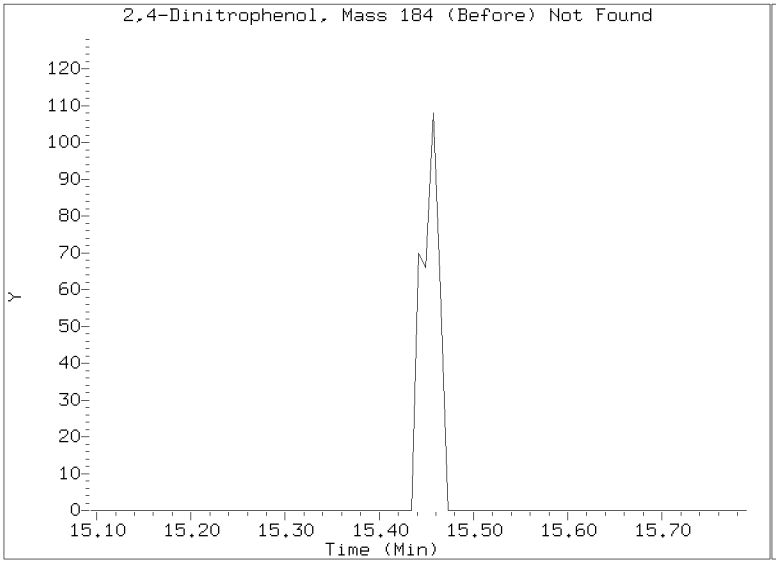
Quant Ion Manual Peak Adjustment Report

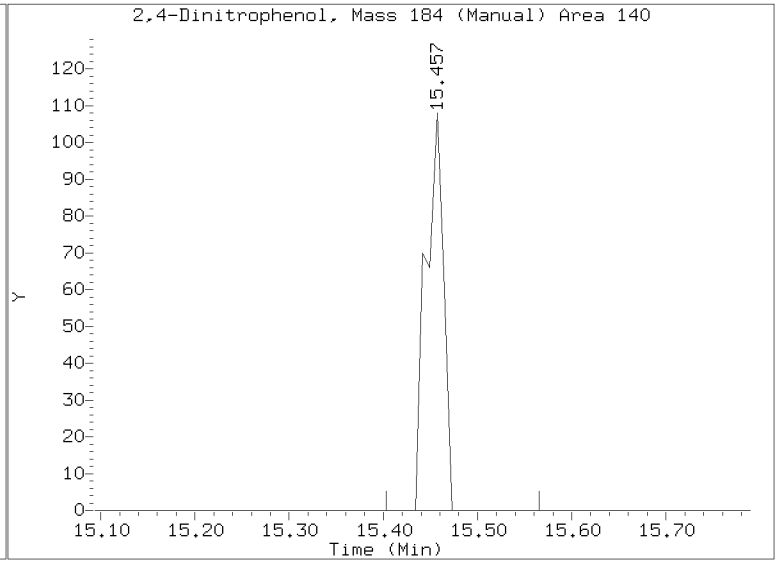
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

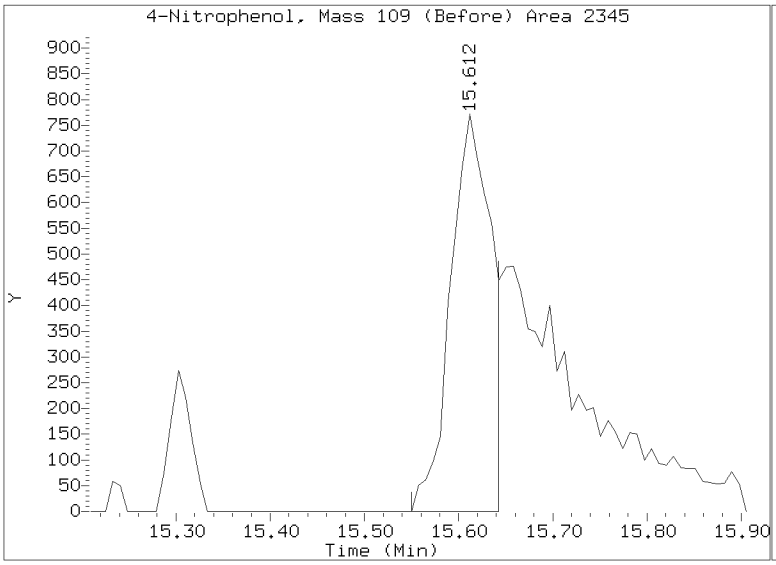
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

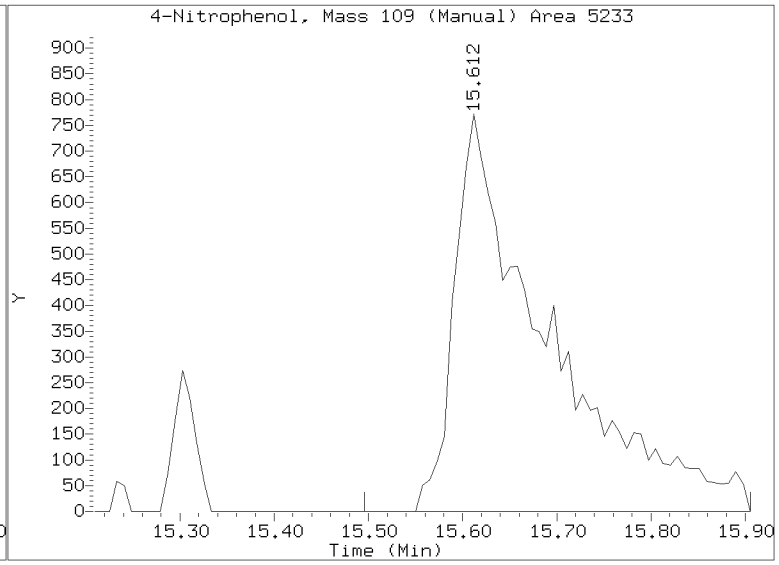












LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00013
Laboratory ID: SLA0061-LCV1
Sequence: SLA0061
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.4	-17.0	50.00
bis(2-chloroethyl) ether	0.50000	0.4	-11.1	50.00
2-Chlorophenol	0.50000	0.5	-7.1	50.00
1,3-Dichlorobenzene	0.50000	0.5	-1.5	50.00
1,4-Dichlorobenzene	0.50000	0.5	-7.3	50.00
1,2-Dichlorobenzene	0.50000	0.5	-2.8	50.00
Benzyl Alcohol	0.50000	0.4	-26.8	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.0	*	50.00
2-Methylphenol	0.50000	0.5	-4.0	50.00
Hexachloroethane	0.50000	0.5	-6.7	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.0	*	50.00
4-Methylphenol	0.50000	0.7	30.7	50.00
Nitrobenzene	0.50000	0.4	-10.7	50.00
Isophorone	0.50000	0.0	*	50.00
2-Nitrophenol	0.50000	0.4	-26.7	50.00
2,4-Dimethylphenol	1.0000	0.8	-20.2	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-6.9	50.00
2,4-Dichlorophenol	1.0000	0.8	-16.9	50.00
1,2,4-Trichlorobenzene	0.50000	0.6	23.8	50.00
Naphthalene	0.50000	0.5	-3.8	50.00
Benzoic acid	2.0000	0.02	-99.0	50.00
4-Chloroaniline	1.0000	0.8	-16.7	50.00
Hexachlorobutadiene	0.50000	0.5	-7.3	50.00
4-Chloro-3-Methylphenol	1.0000	0.7	-34.3	50.00
2-Methylnaphthalene	0.50000	0.4	-11.0	50.00
Hexachlorocyclopentadiene	1.0000	0.7	-28.7	50.00
2,4,6-Trichlorophenol	1.0000	0.8	-22.8	50.00
2,4,5-Trichlorophenol	1.0000	0.7	-27.0	50.00
2-Chloronaphthalene	0.50000	0.5	-1.4	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00013
Laboratory ID: SLA0061-LCV1
Sequence: SLA0061
Standard ID: K011106

2-Nitroaniline	1.0000	0.7	-34.5	50.00
Acenaphthylene	0.50000	0.5	-2.2	50.00
Dimethylphthalate	0.50000	0.5	3.9	50.00
2,6-Dinitrotoluene	1.0000	0.9	-9.6	50.00
Acenaphthene	0.50000	0.5	-0.5	50.00
3-Nitroaniline	1.0000	1.4	44.9	50.00
2,4-Dinitrophenol	2.0000	0.2	-88.9	50.00
Dibenzofuran	0.50000	0.5	-2.6	50.00
4-Nitrophenol	1.0000	0.3	-74.8	50.00
2,4-Dinitrotoluene	1.0000	0.8	-19.4	50.00
Fluorene	0.50000	0.5	8.2	50.00
4-Chlorophenylphenyl ether	0.50000	0.6	17.9	50.00
Diethyl phthalate	0.50000	0.5	-8.0	50.00
4-Nitroaniline	1.0000	0.9	-9.3	50.00
4,6-Dinitro-2-methylphenol	2.0000	1.1	-44.3	50.00
N-Nitrosodiphenylamine	0.50000	0.6	11.6	50.00
4-Bromophenyl phenyl ether	0.50000	0.4	-10.1	50.00
Hexachlorobenzene	0.50000	0.5	7.1	50.00
Pentachlorophenol	1.0000	0.0	*	50.00
Phenanthrene	0.50000	0.5	-3.7	50.00
Anthracene	0.50000	0.4	-13.0	50.00
Carbazole	0.50000	0.4	-11.6	50.00
Di-n-Butylphthalate	0.50000	0.4	-17.0	50.00
Fluoranthene	0.50000	0.5	-5.6	50.00
Pyrene	0.50000	0.5	-5.0	50.00
Butylbenzylphthalate	0.50000	0.5	-6.4	50.00
Benzo(a)anthracene	0.50000	0.5	5.7	50.00
3,3'-Dichlorobenzidine	1.5000	1.4	-9.0	50.00
Chrysene	0.50000	0.5	-2.3	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	0.6	50.00
Di-n-Octylphthalate	0.50000	0.5	-0.8	50.00

LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: GA00013
Laboratory ID: SLA0061-LCV1
Sequence: SLA0061
Standard ID: K011106

Benzofluoranthenes, Total	1.0000	1.0	-1.4	50.00
Benzo(a)pyrene	0.50000	0.5	-7.6	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.4	-14.9	50.00
Dibenzo(a,h)anthracene	0.50000	0.4	-17.1	50.00
Benzo(g,h,i)perylene	0.50000	0.2	-58.0	50.00
1-Methylnaphthalene	0.50000	0.4	-10.9	50.00
2-Fluorophenol	0.75000	0.556	-25.8	50.00
Phenol-d5	0.75000	0.00	*	50.00
2-Chlorophenol-d4	0.75000	0.670	-10.7	50.00
1,2-Dichlorobenzene-d4	0.50000	0.468	-6.4	50.00
Nitrobenzene-d5	0.50000	0.398	-20.4	50.00
2-Fluorobiphenyl	0.50000	0.474	-5.1	50.00
2,4,6-Tribromophenol	0.75000	0.548	-26.9	50.00
p-Terphenyl-d14	0.50000	0.452	-9.7	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

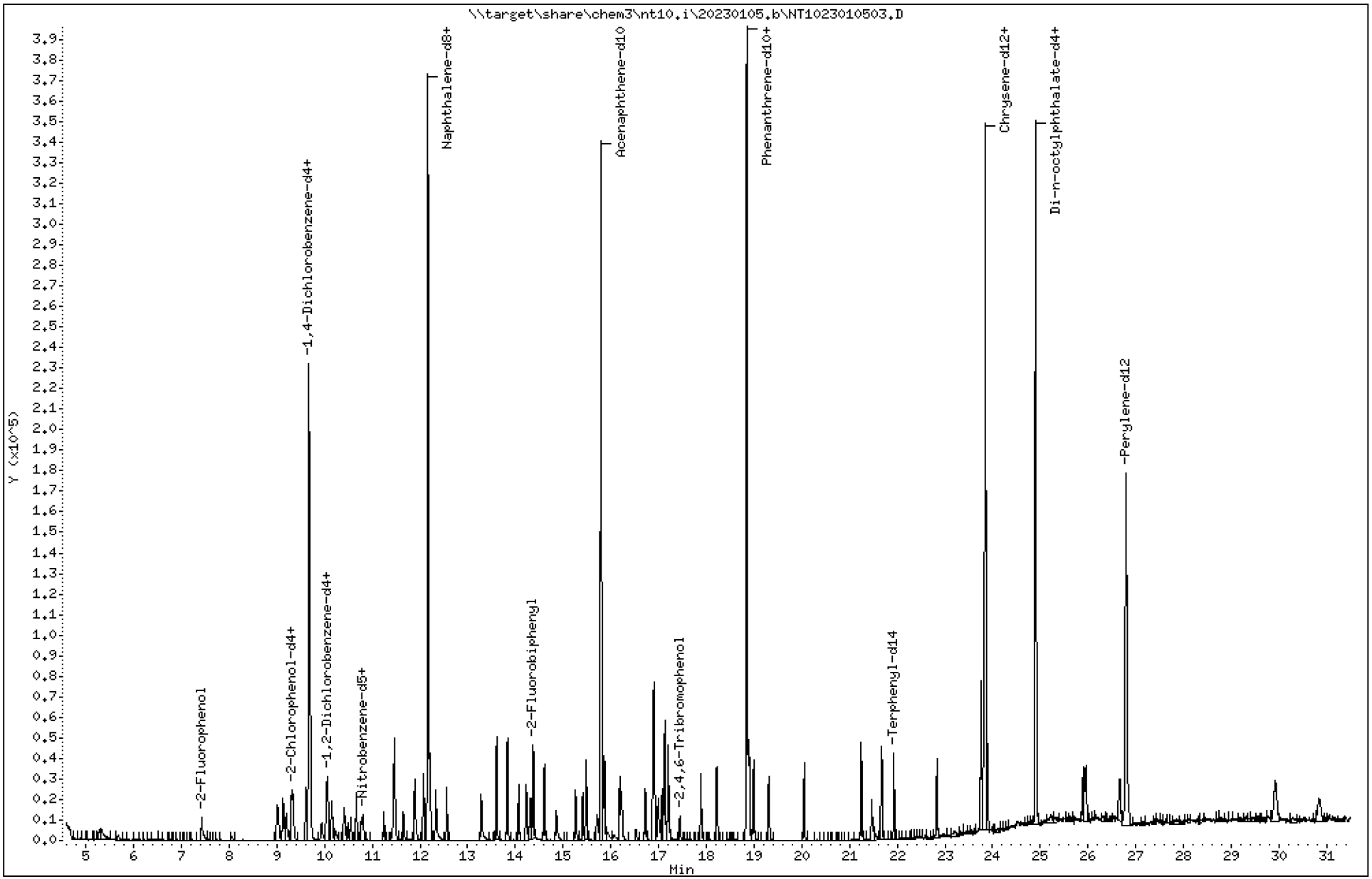
Instrument: nt10.i

Sample Info: SLA0061-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

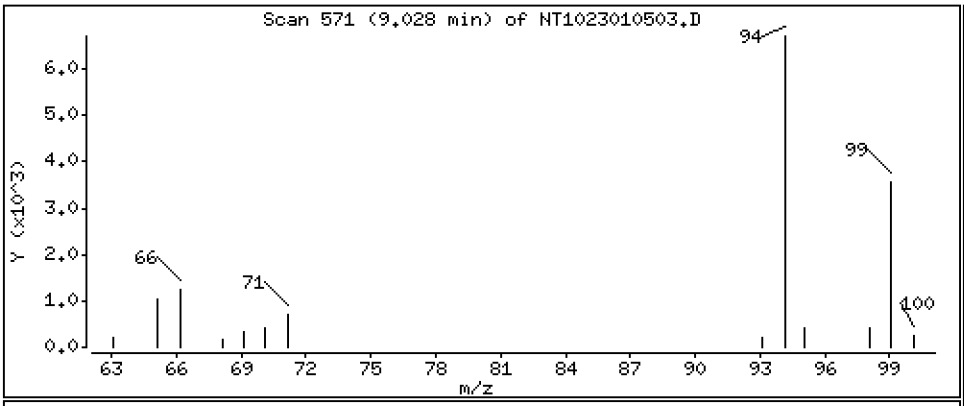
Operator: VTS

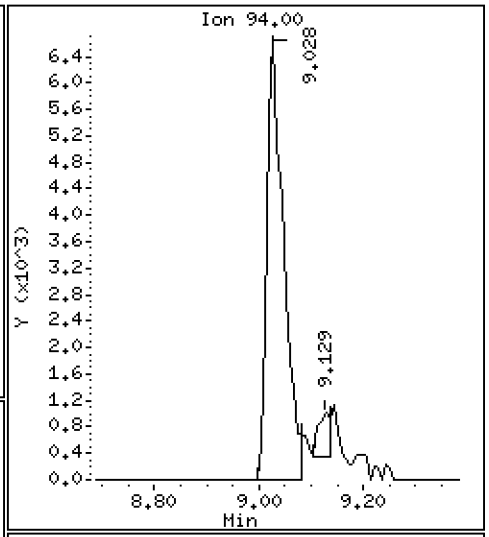
Column phase: ZB-5msi

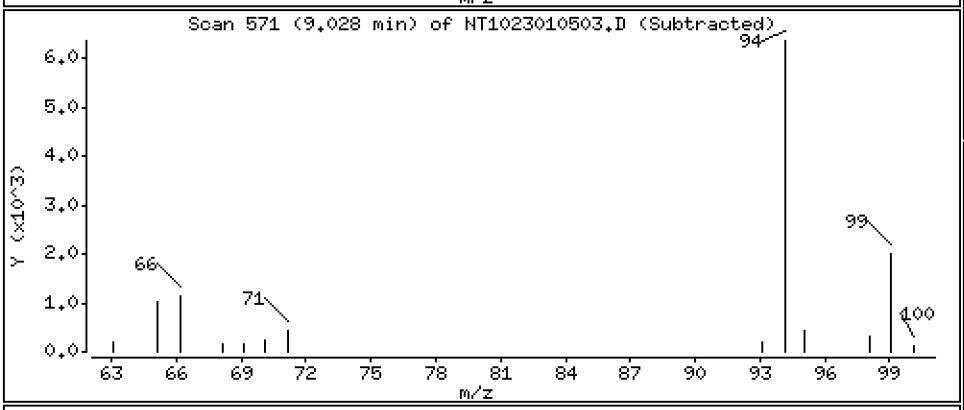
Column diameter: 0.25

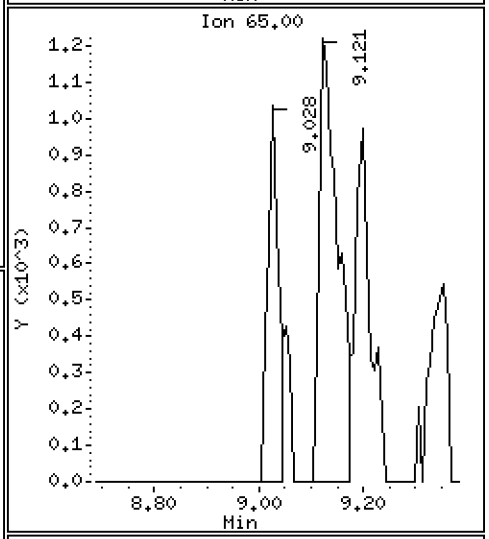
3 Phenol

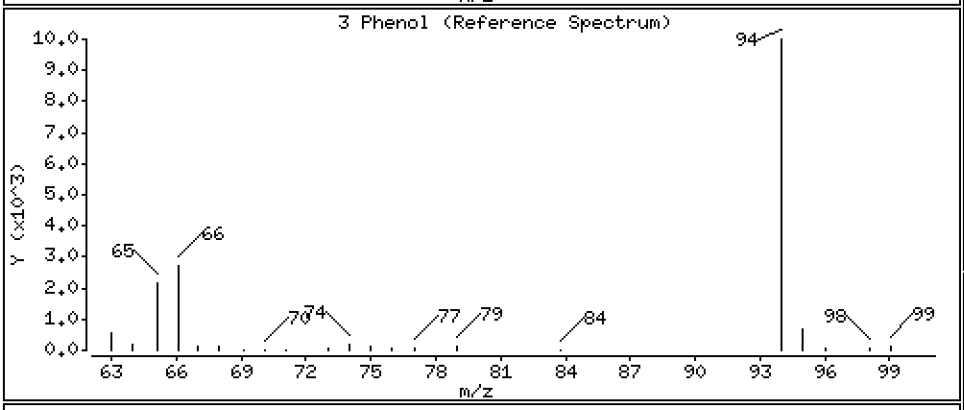
Concentration: 0.4152 ug/mL

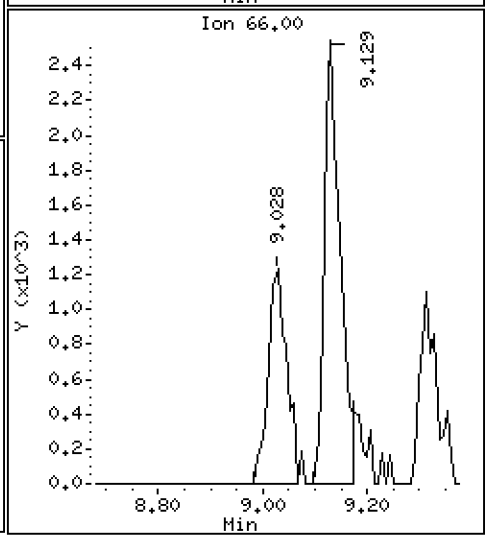


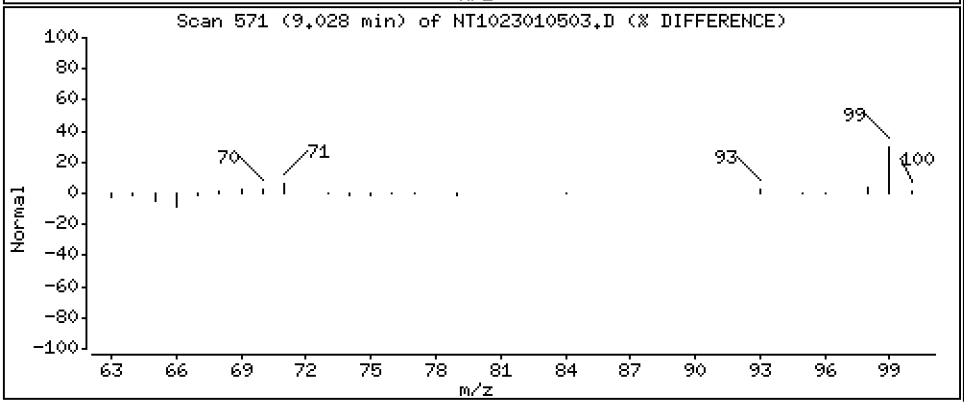












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

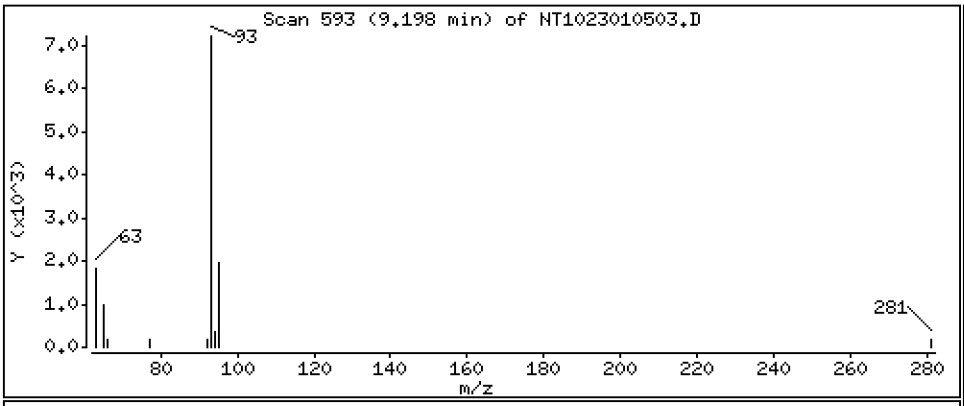
Operator: VTS

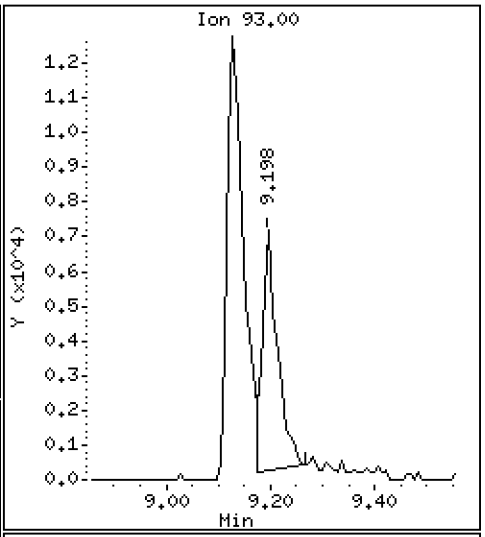
Column phase: ZB-5msi

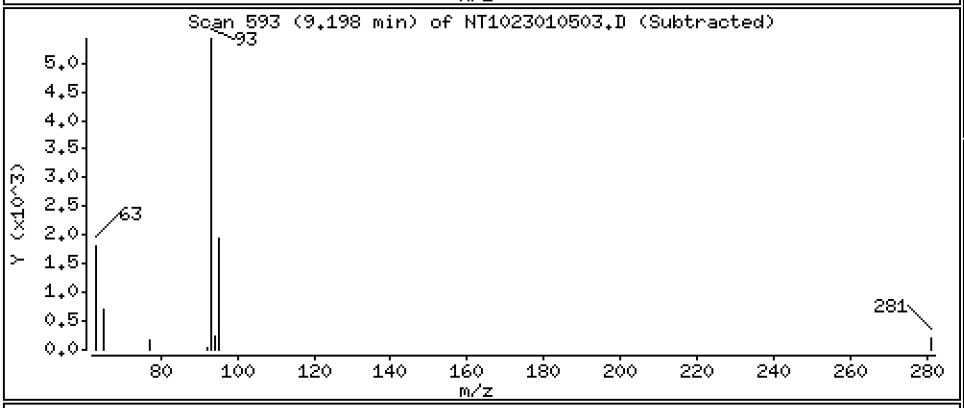
Column diameter: 0.25

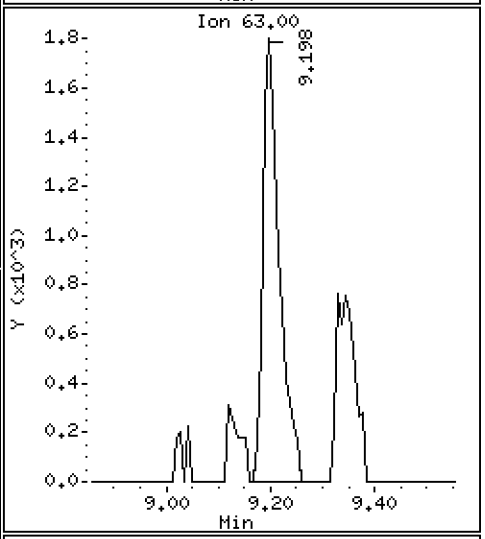
4 Bis(2-Chloroethyl)ether

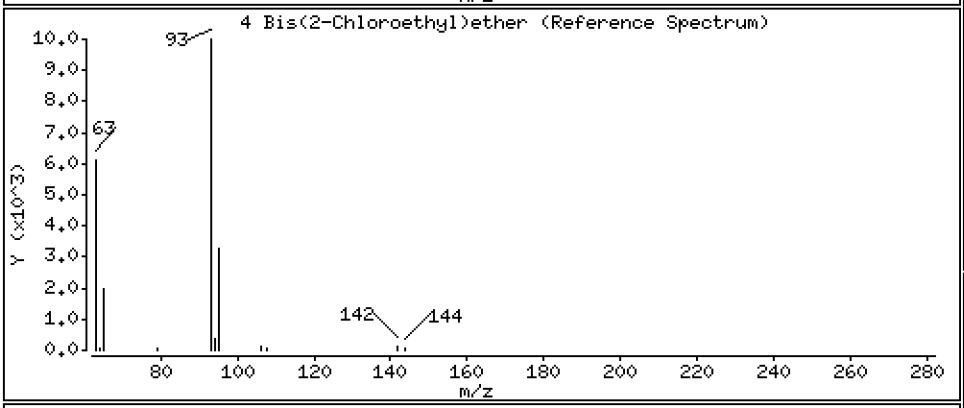
Concentration: 0.4445 ug/mL

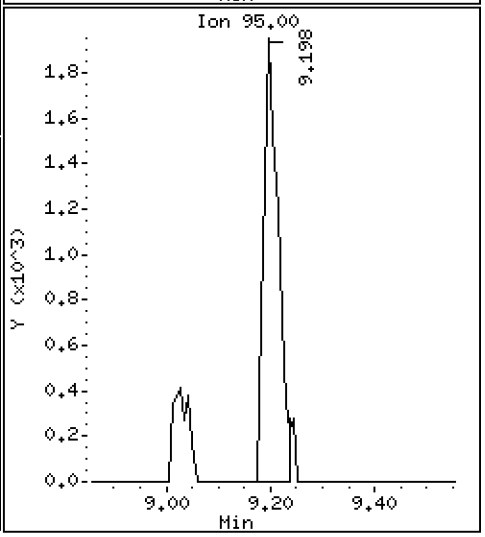


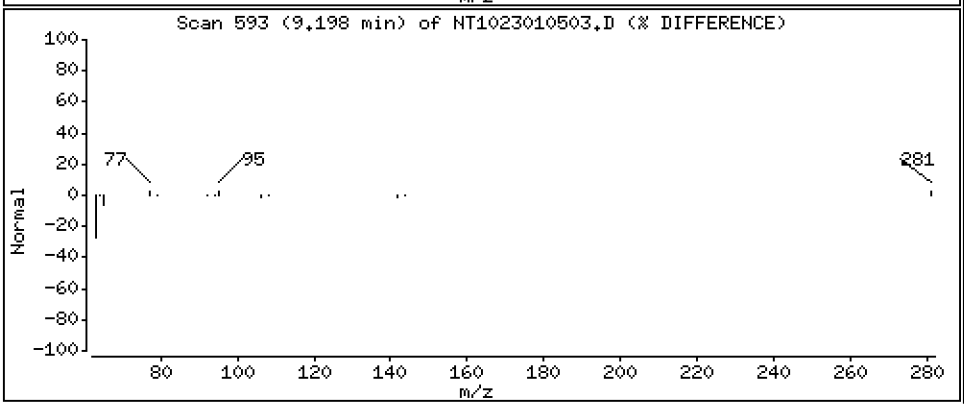












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

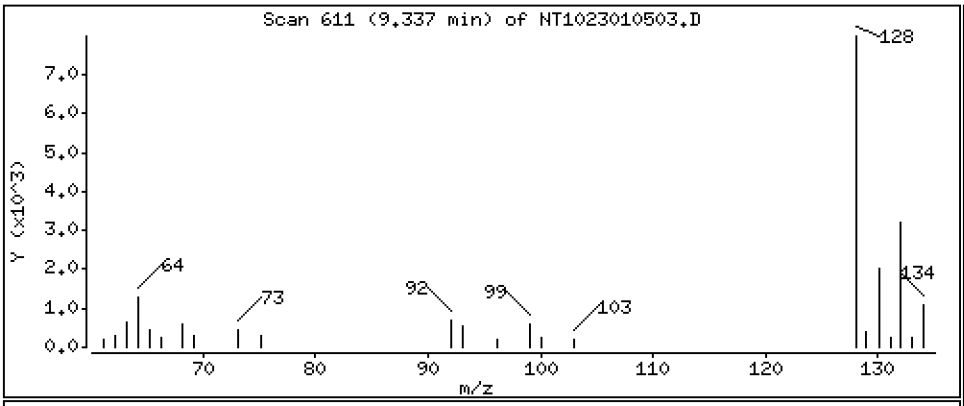
Operator: VTS

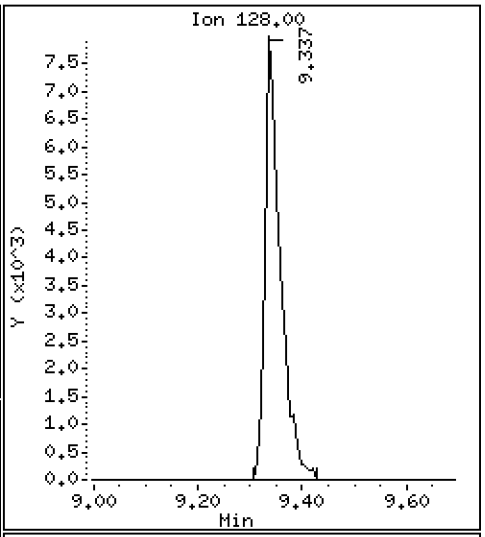
Column phase: ZB-5msi

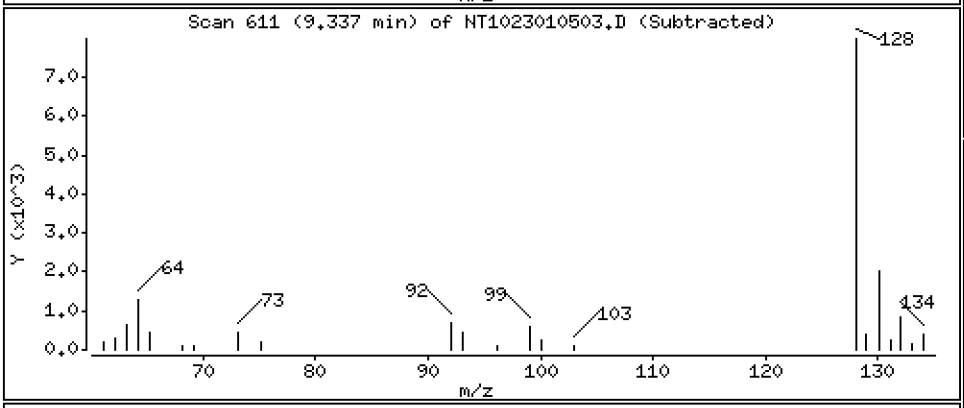
Column diameter: 0.25

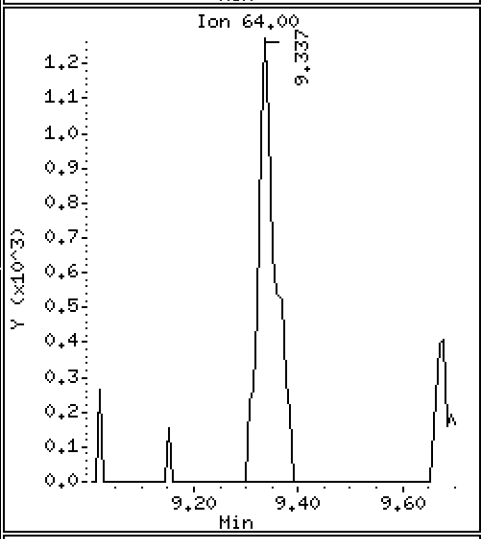
6 2-Chlorophenol

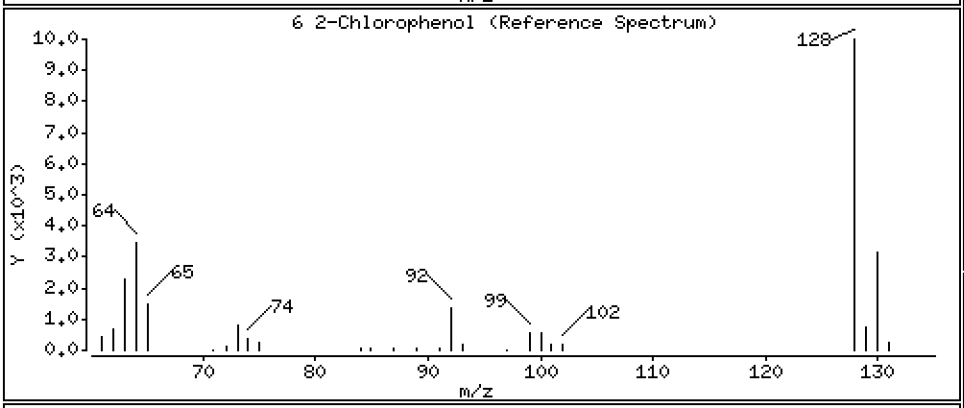
Concentration: 0.4644 ug/mL

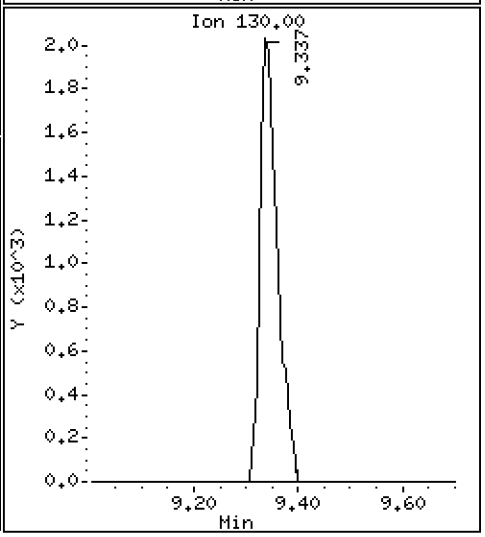


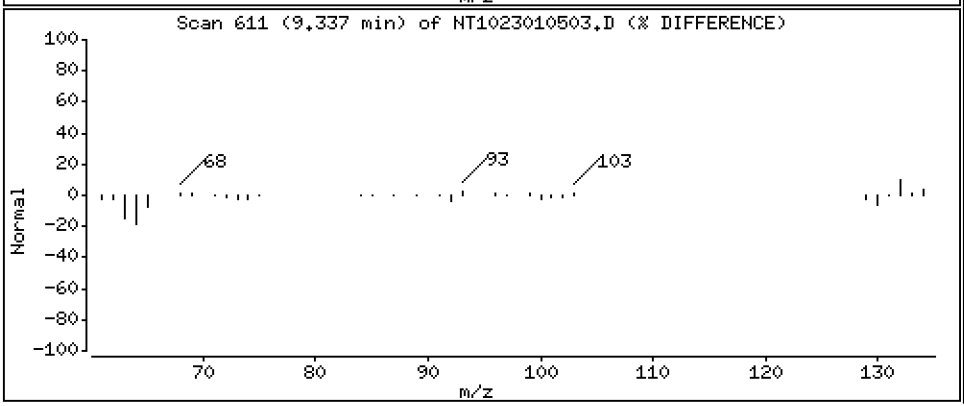












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

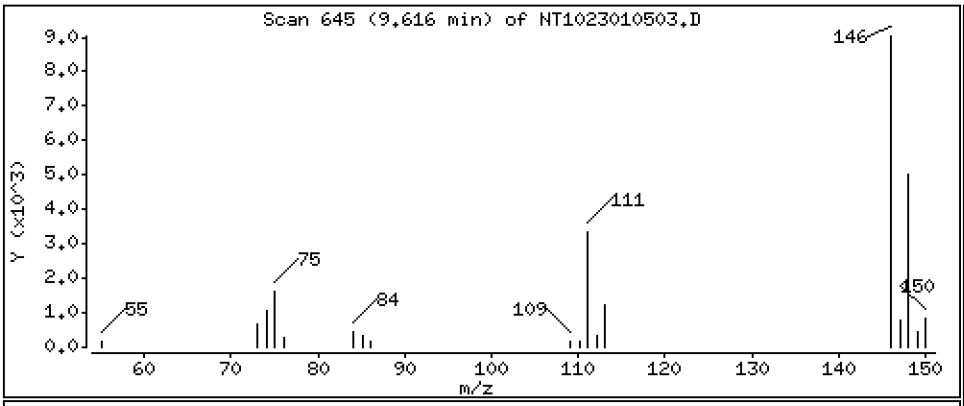
Operator: VTS

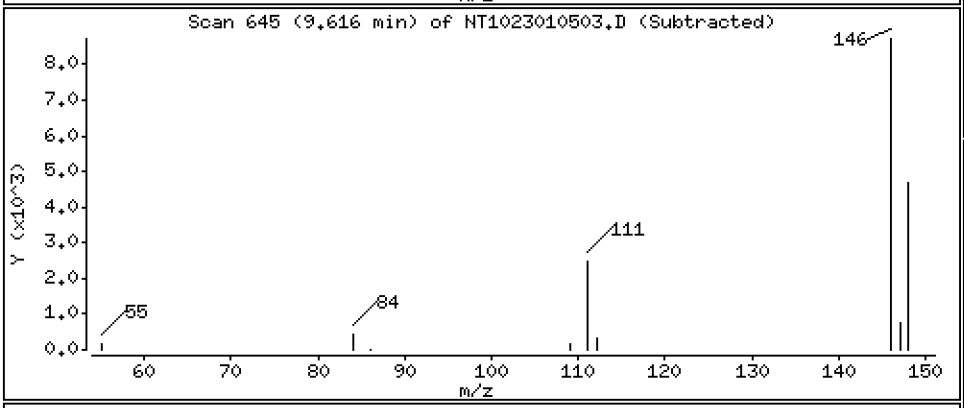
Column phase: ZB-5msi

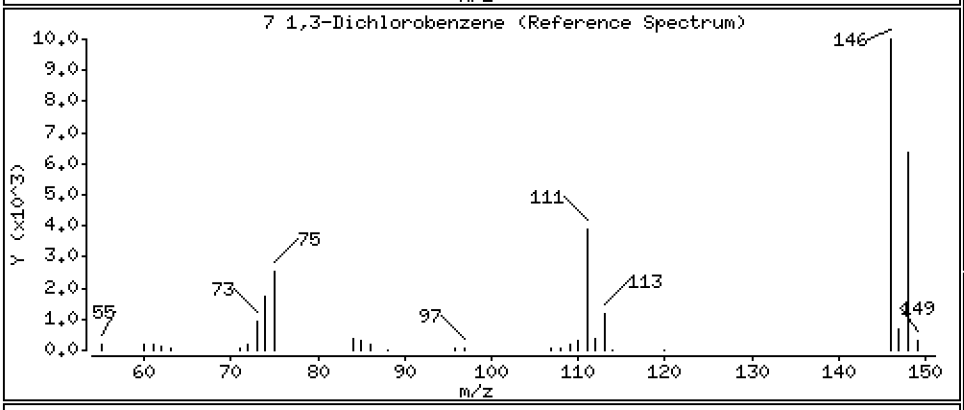
Column diameter: 0.25

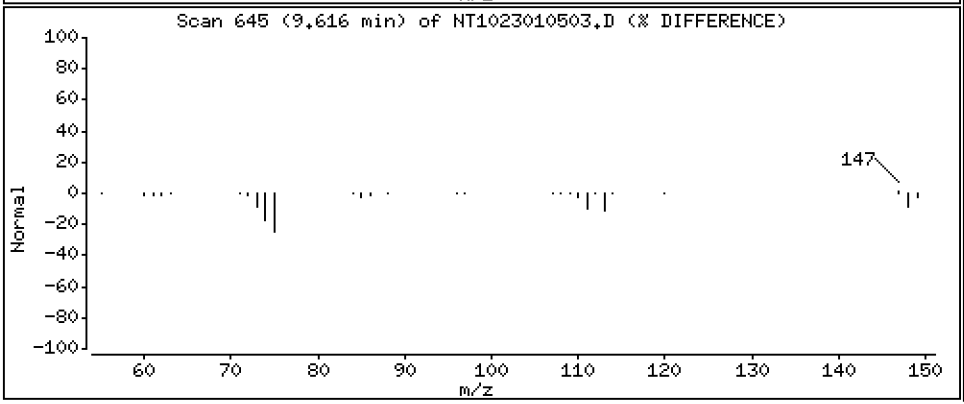
7 1,3-Dichlorobenzene

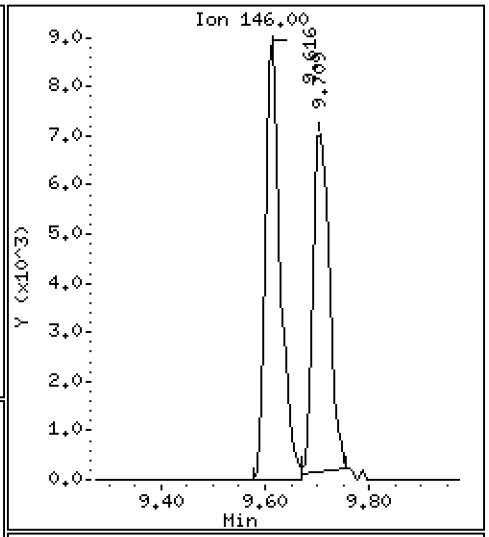
Concentration: 0.4925 ug/mL

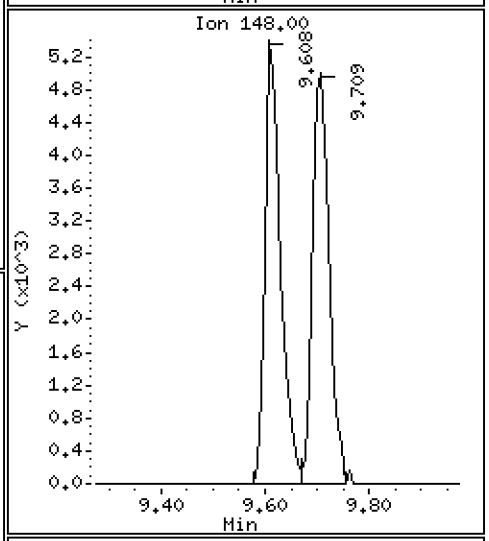


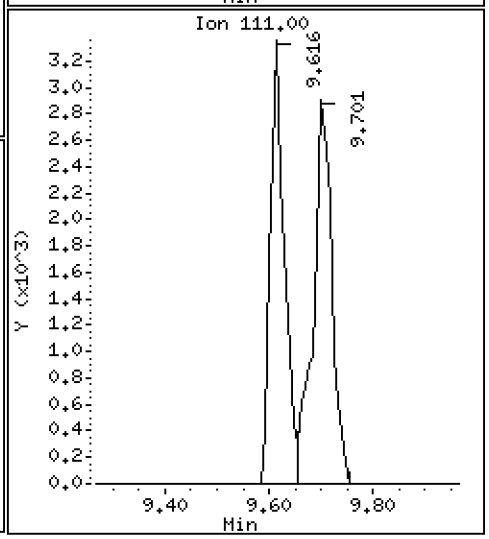












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

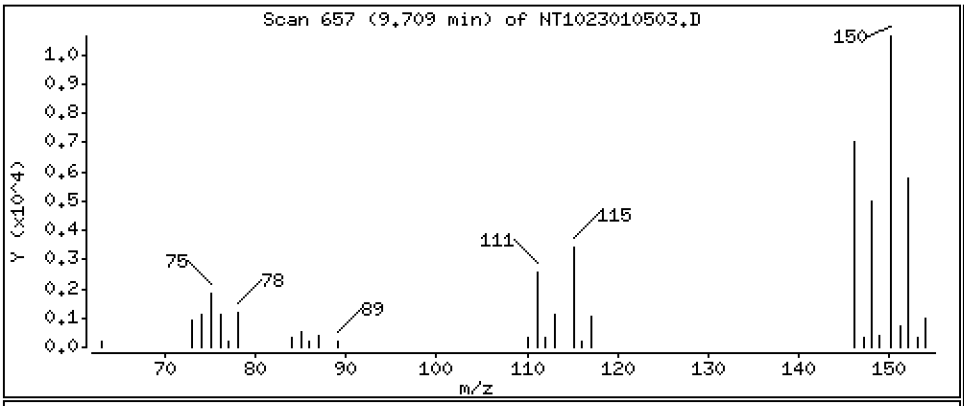
Operator: VTS

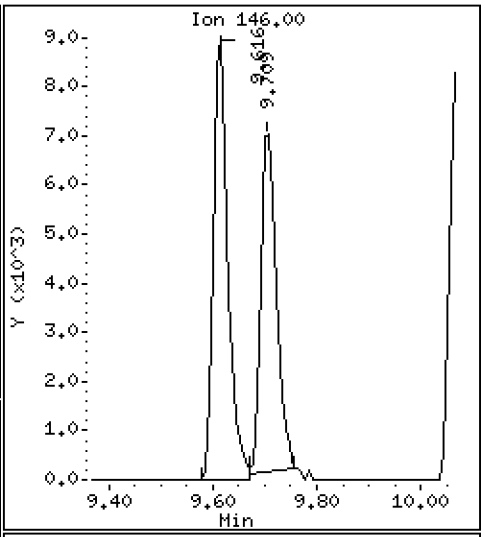
Column phase: ZB-5msi

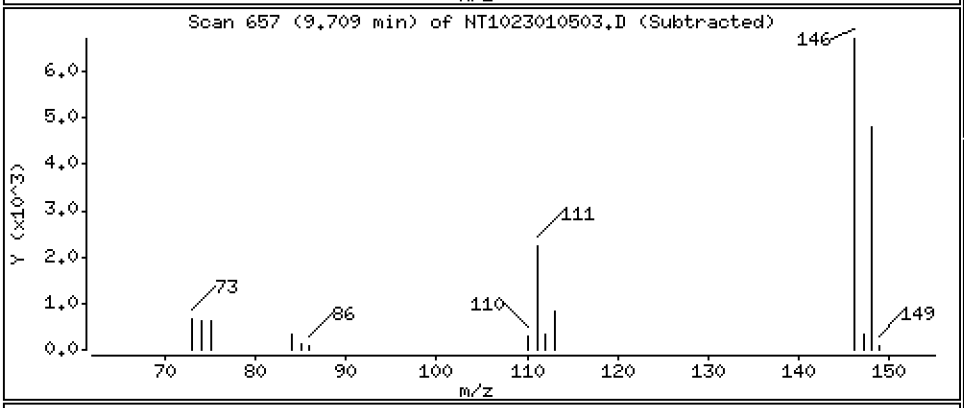
Column diameter: 0.25

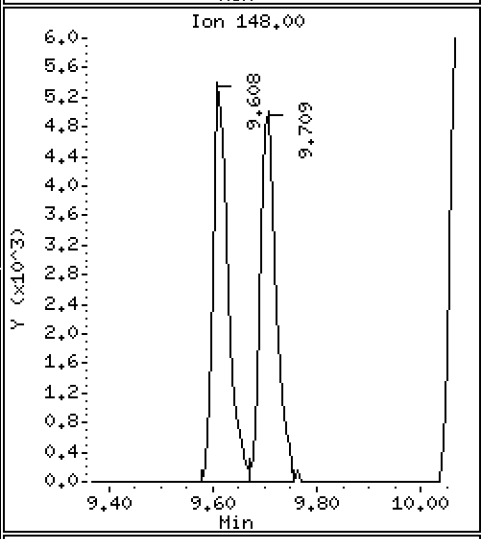
9 1,4-Dichlorobenzene

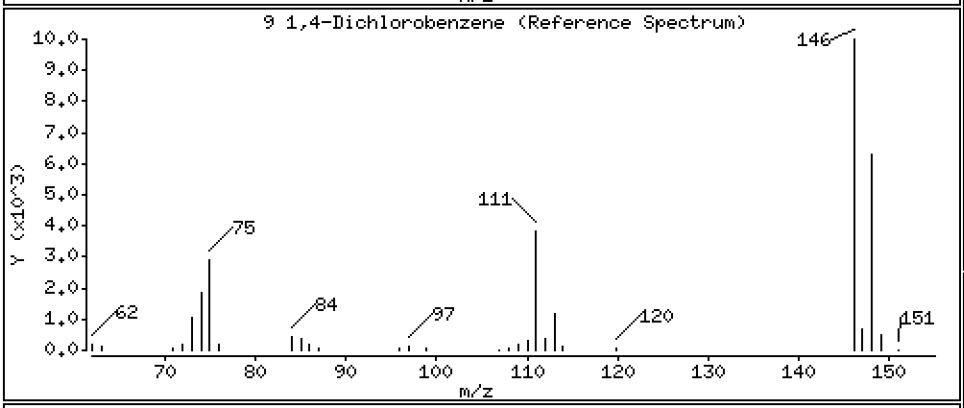
Concentration: 0.4633 ug/mL

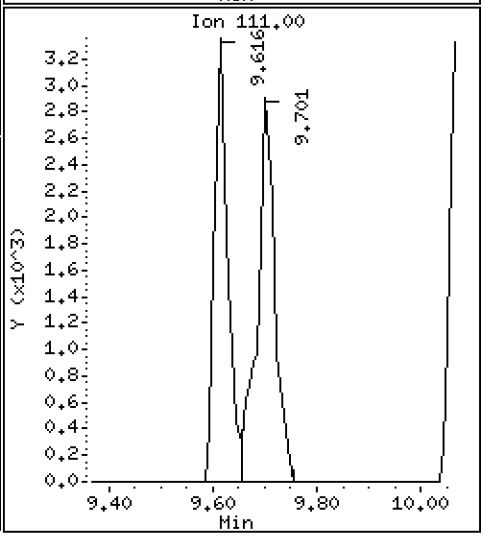


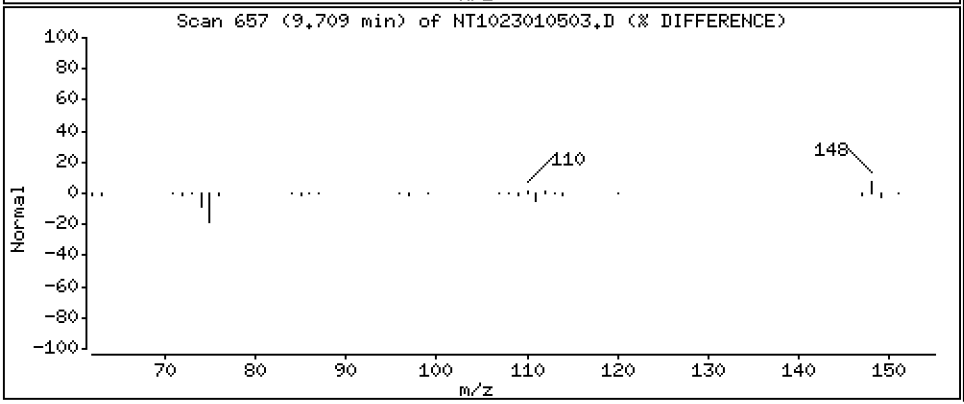












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

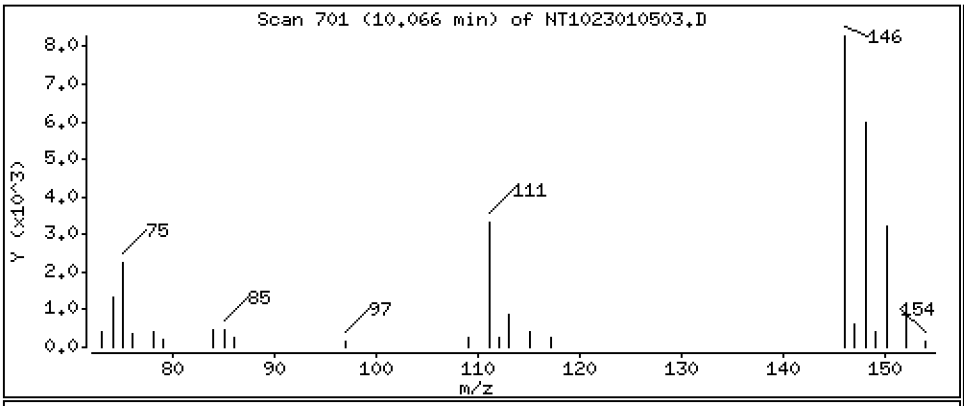
Operator: VTS

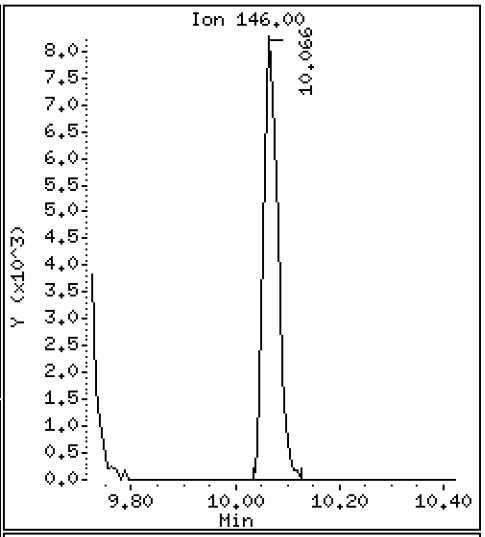
Column phase: ZB-5msi

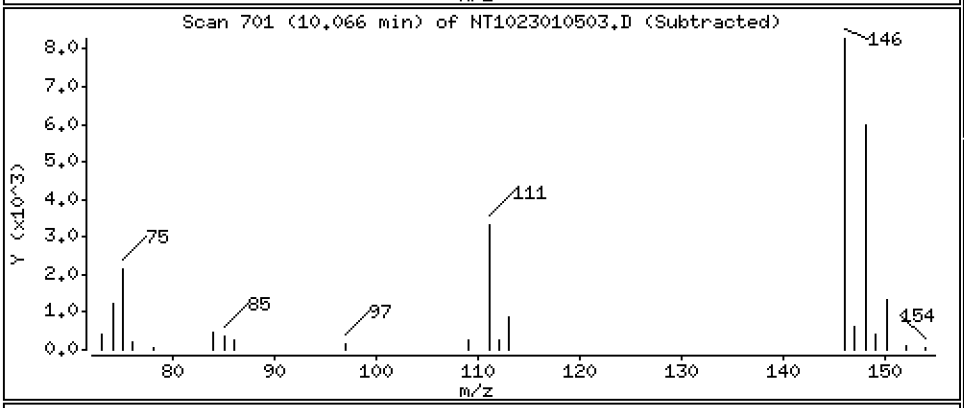
Column diameter: 0.25

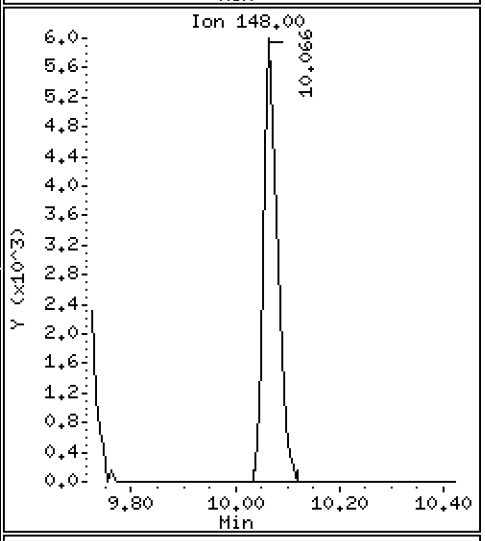
12 1,2-Dichlorobenzene

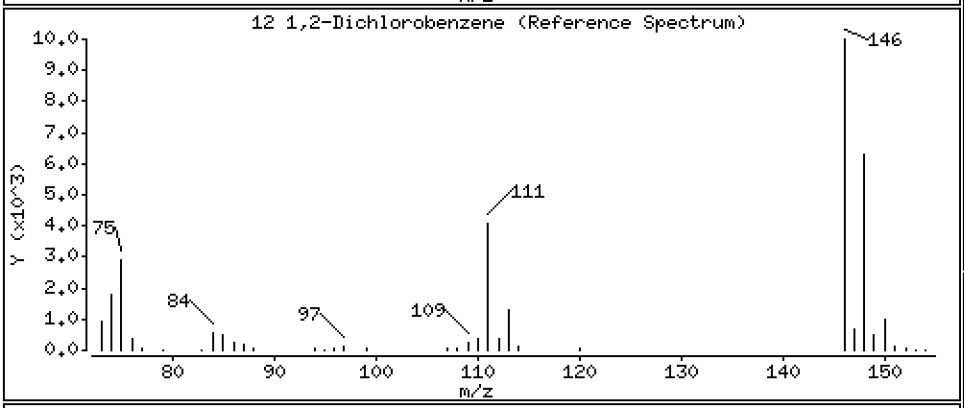
Concentration: 0.4858 ug/mL

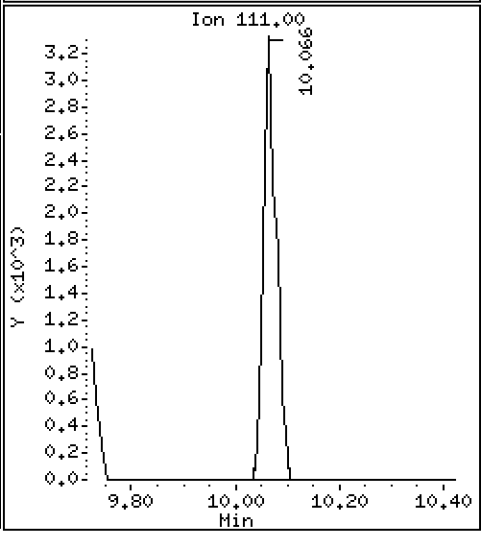


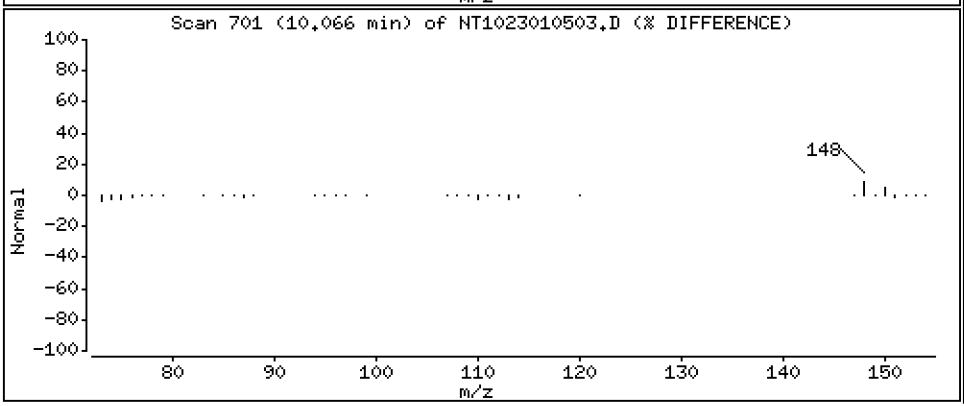












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

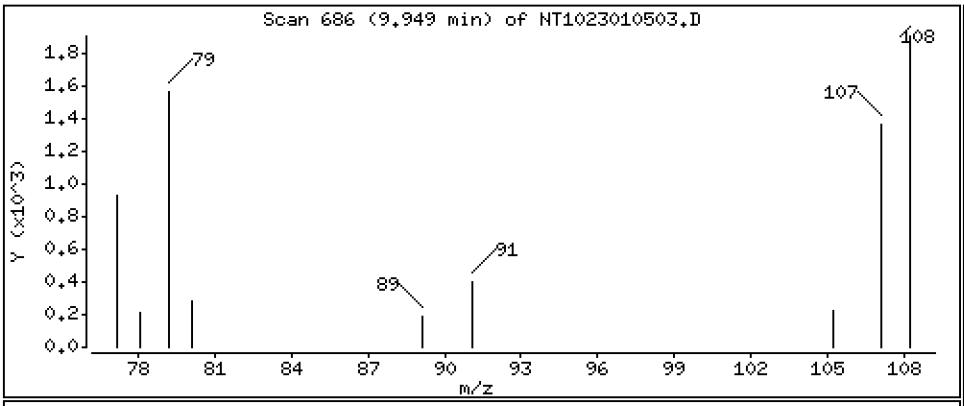
Operator: VTS

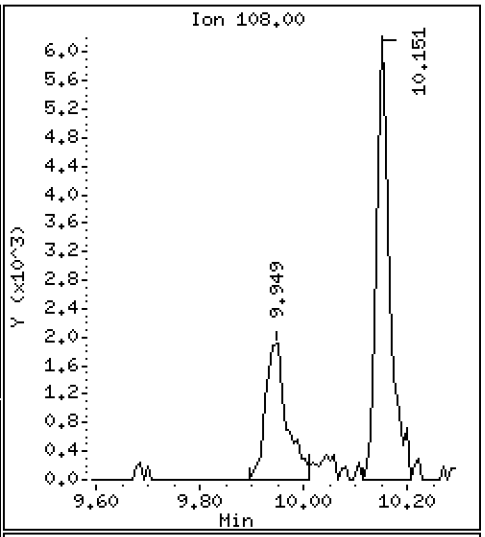
Column phase: ZB-5msi

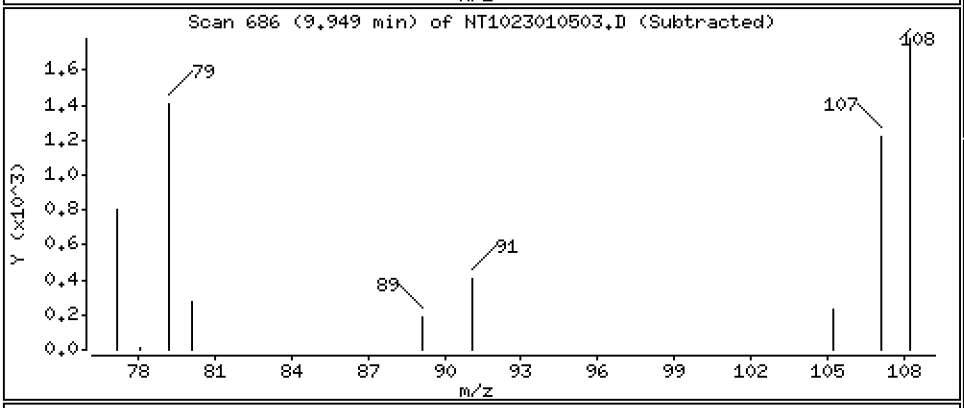
Column diameter: 0.25

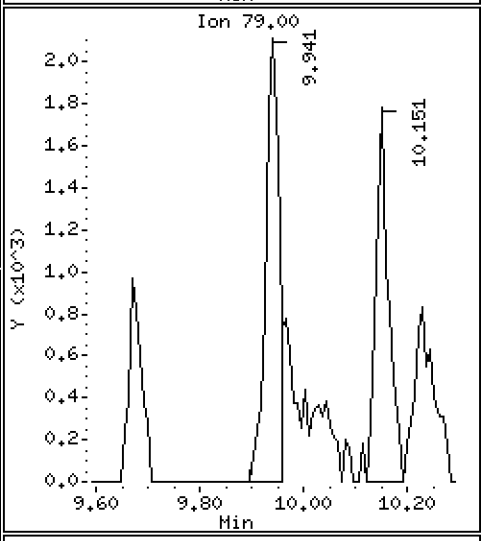
11 Benzyl alcohol

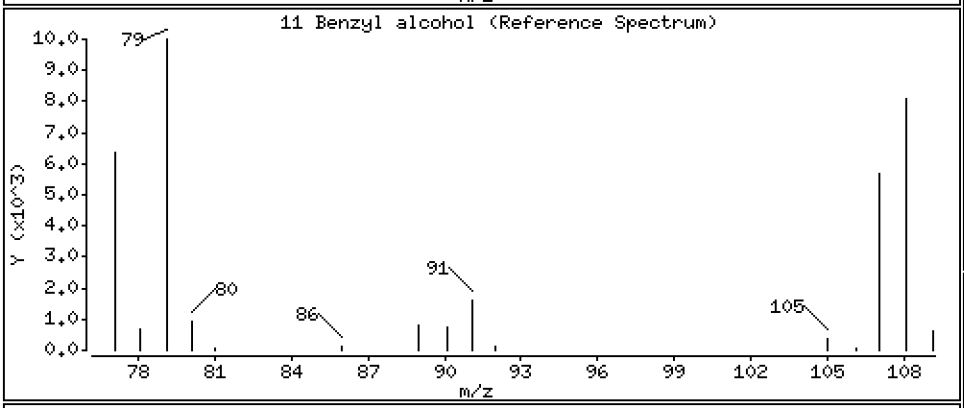
Concentration: 0.3661 ug/mL

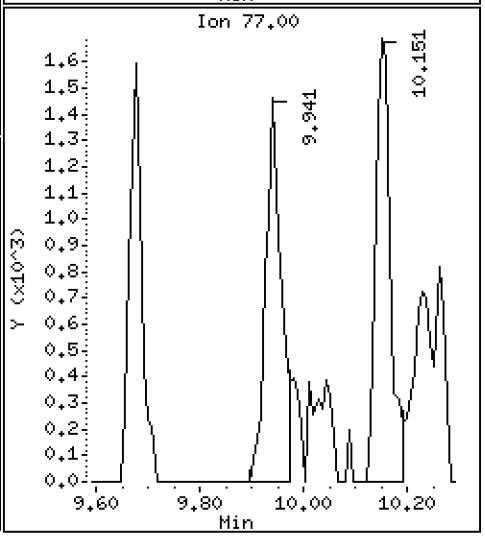


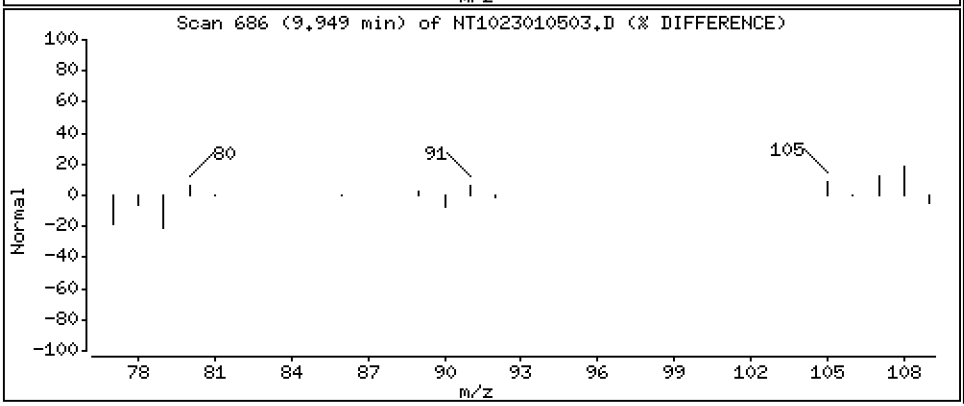












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

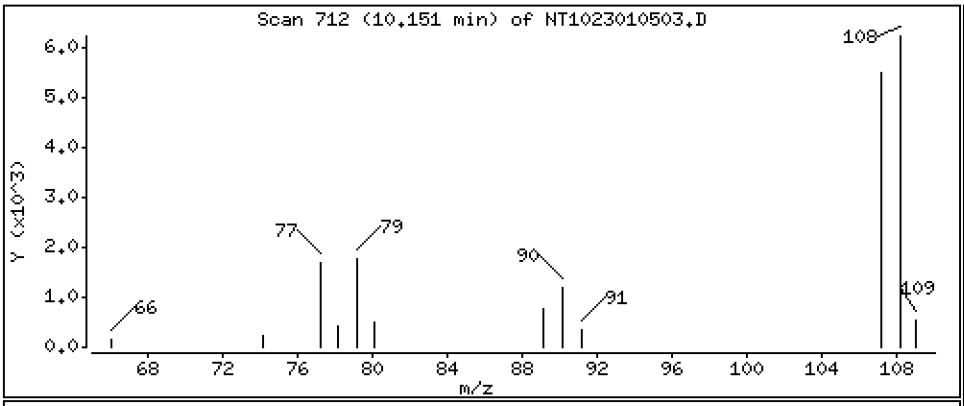
Operator: VTS

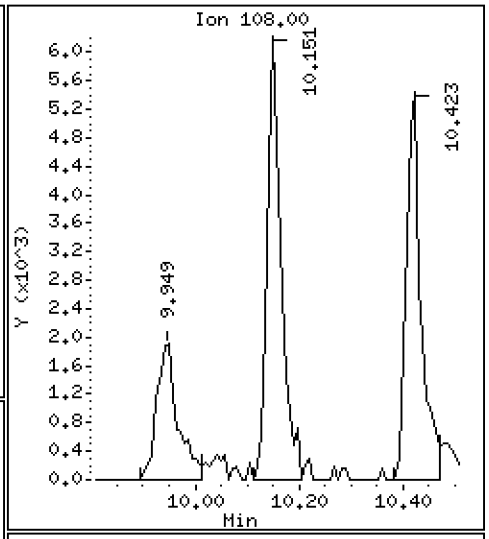
Column phase: ZB-5msi

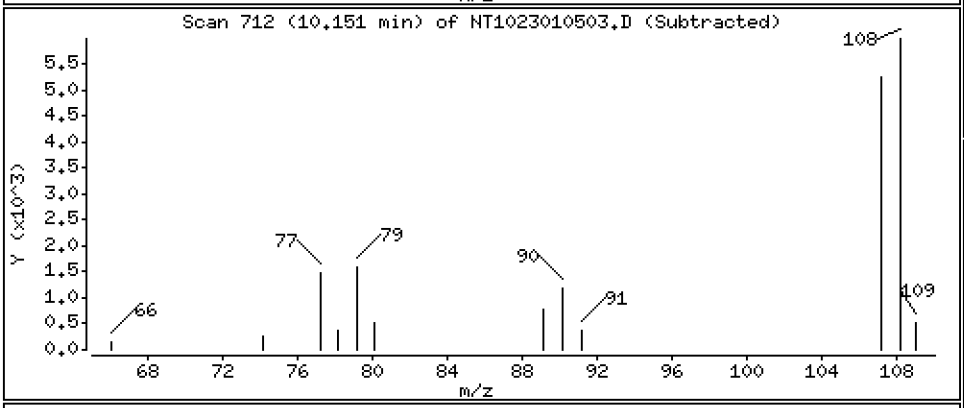
Column diameter: 0.25

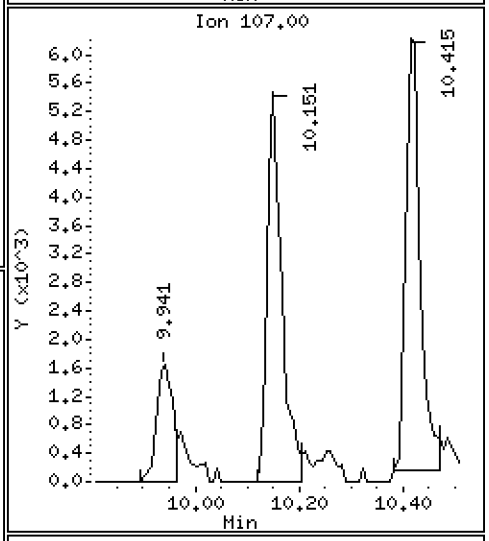
13 2-Methylphenol

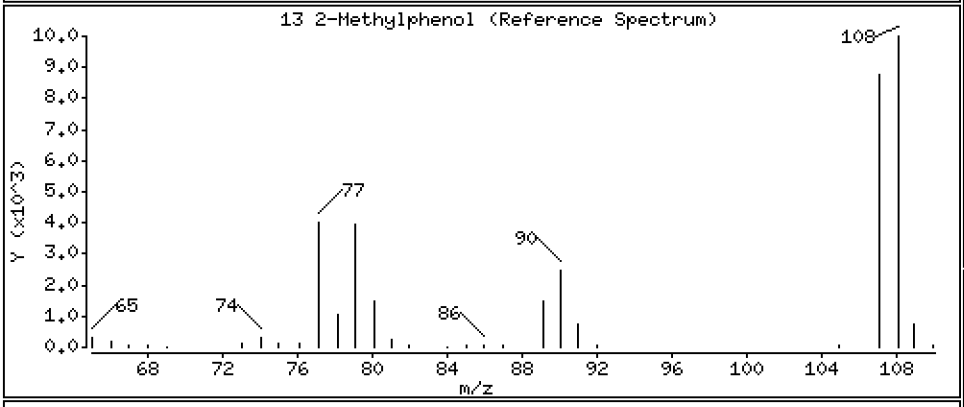
Concentration: 0.4802 ug/mL

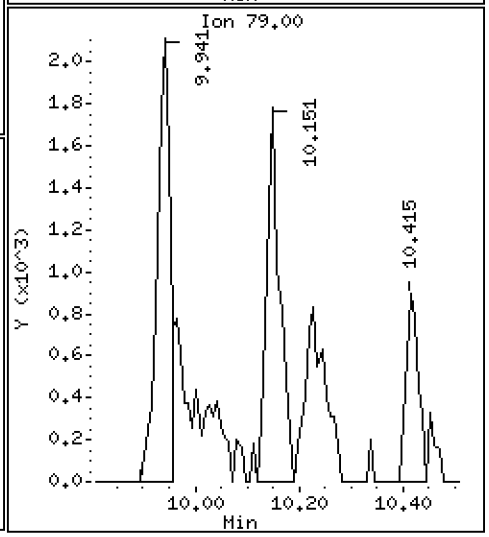


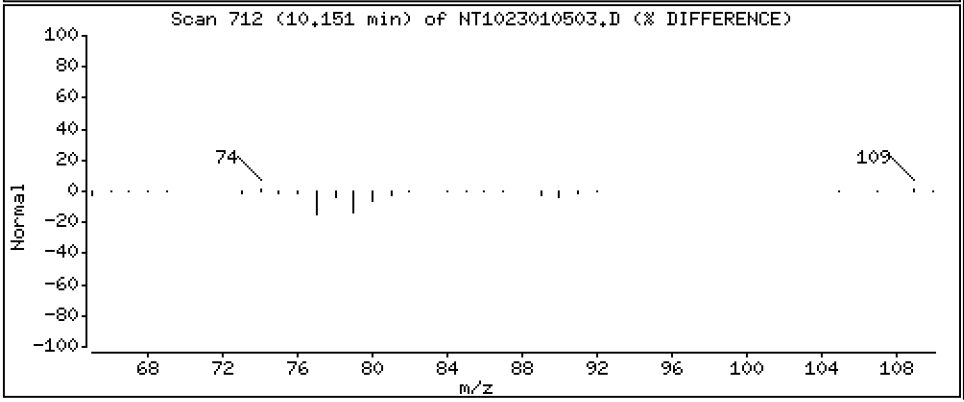












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

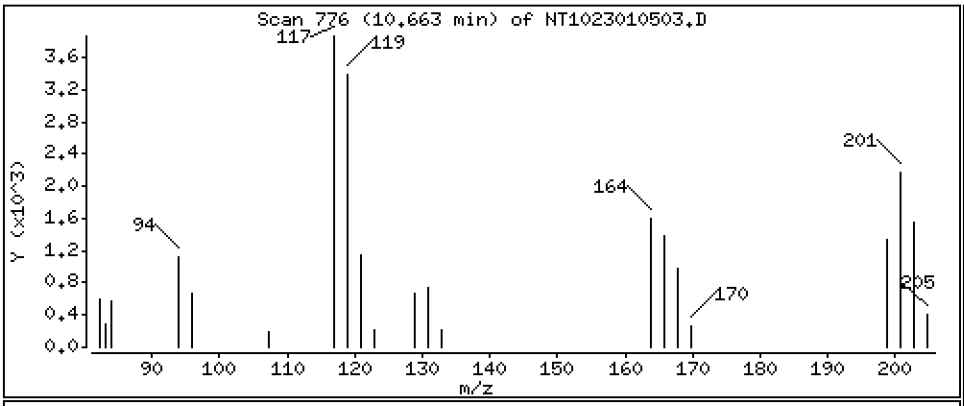
Operator: VTS

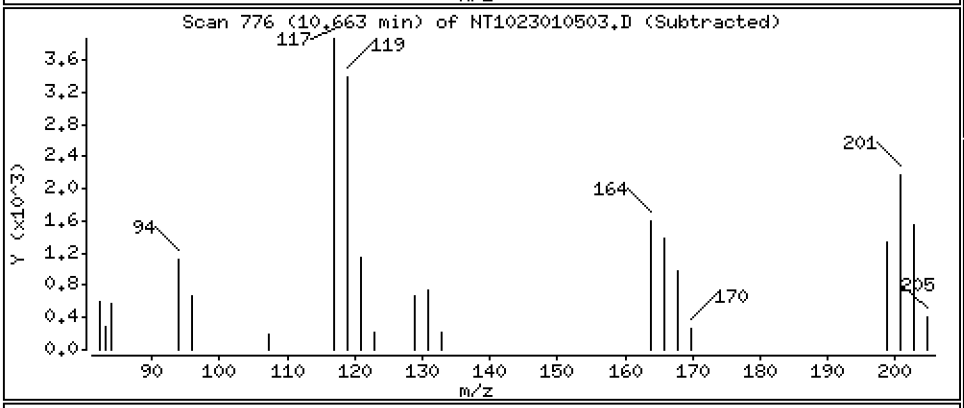
Column phase: ZB-5msi

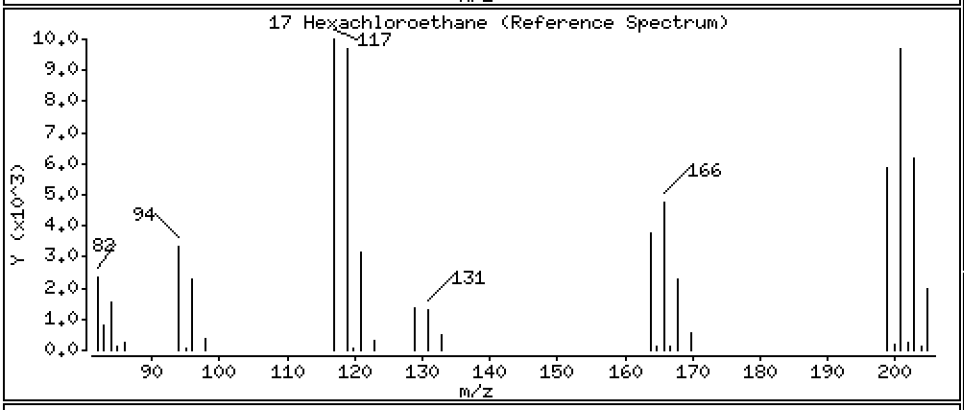
Column diameter: 0.25

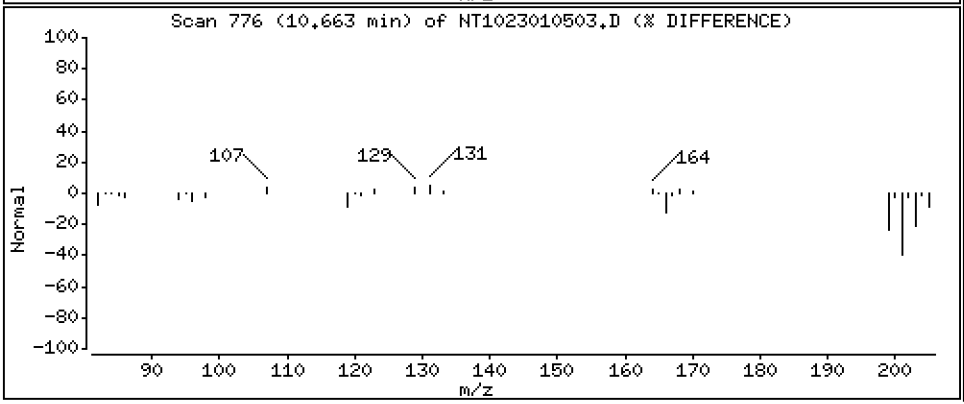
17 Hexachloroethane

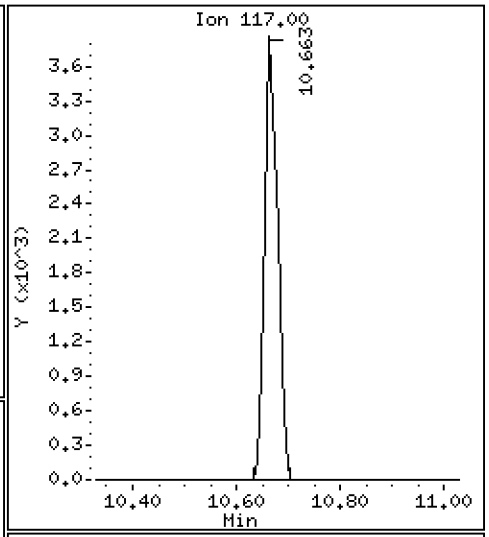
Concentration: 0.4667 ug/mL

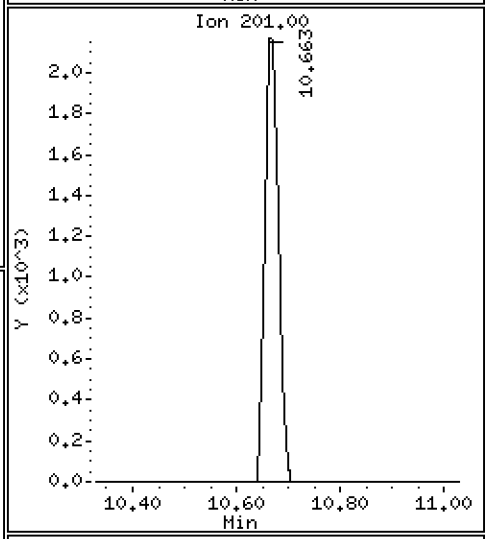


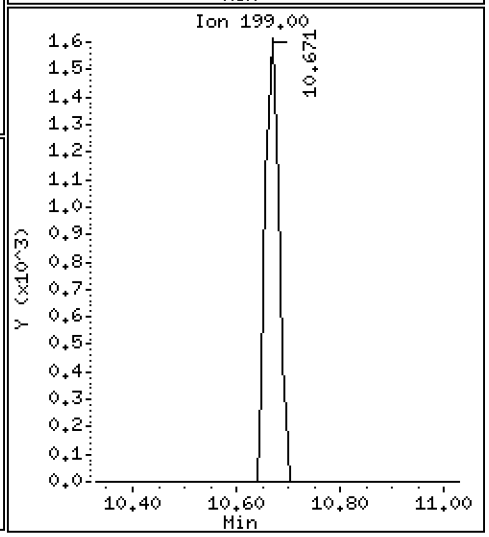












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

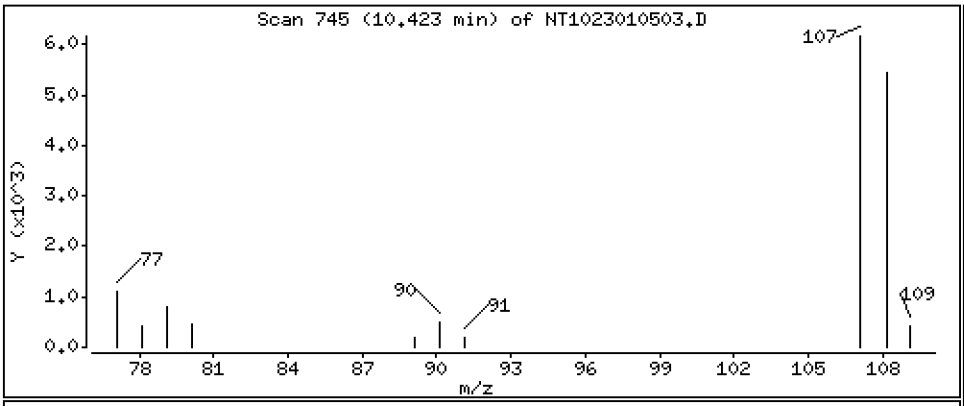
Operator: VTS

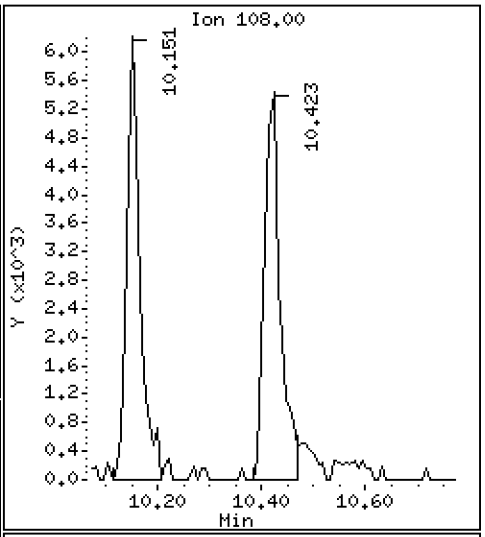
Column phase: ZB-5msi

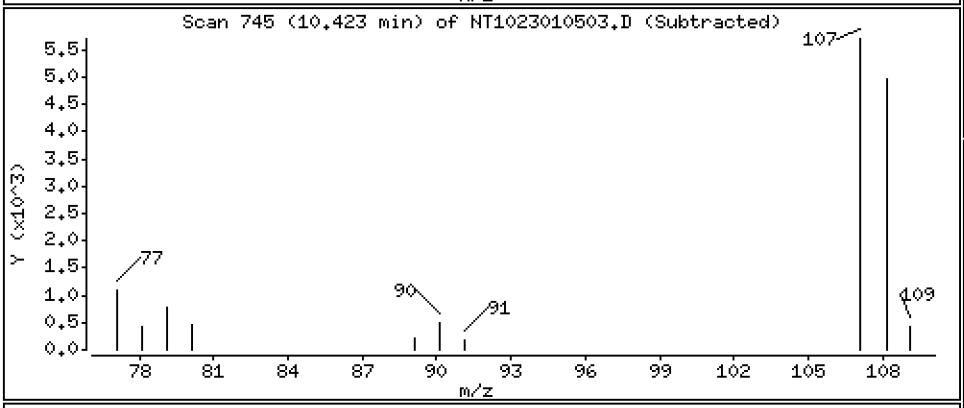
Column diameter: 0.25

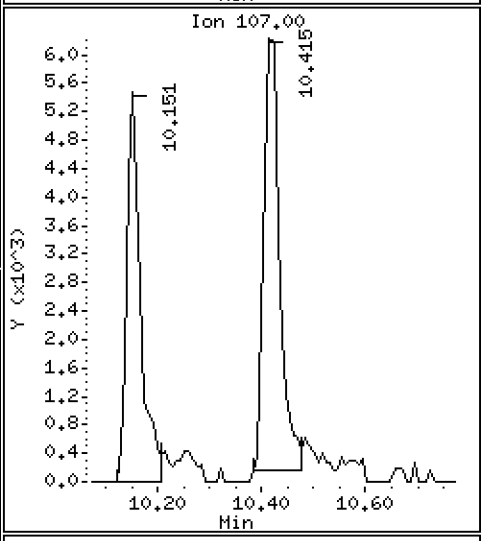
15 4-Methylphenol

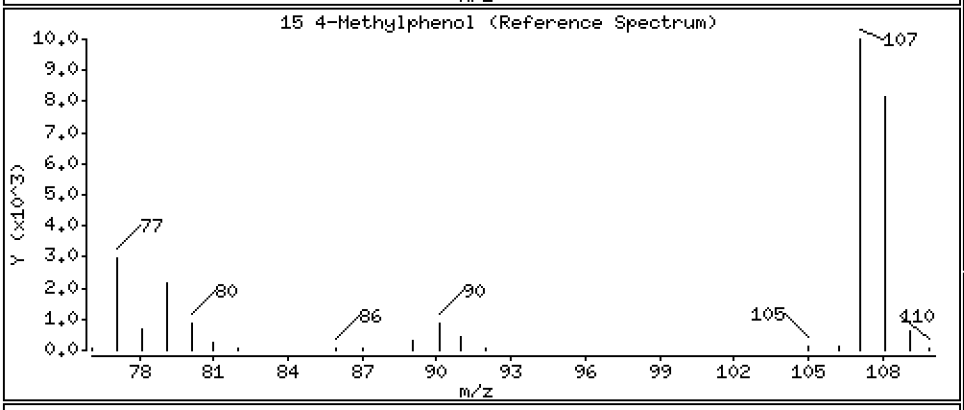
Concentration: 0.6537 ug/mL

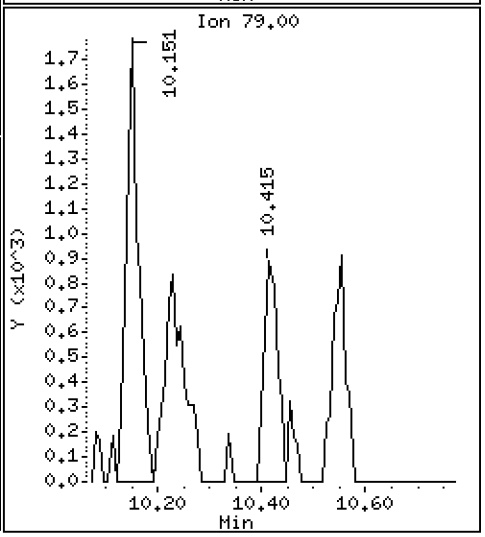


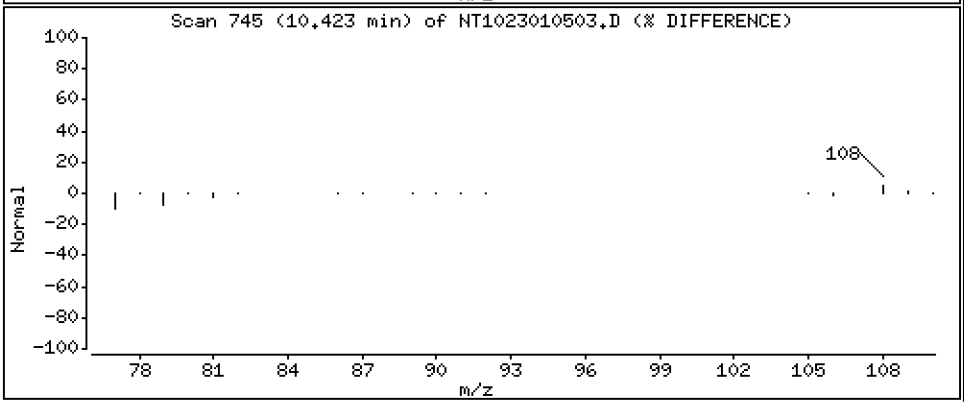












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

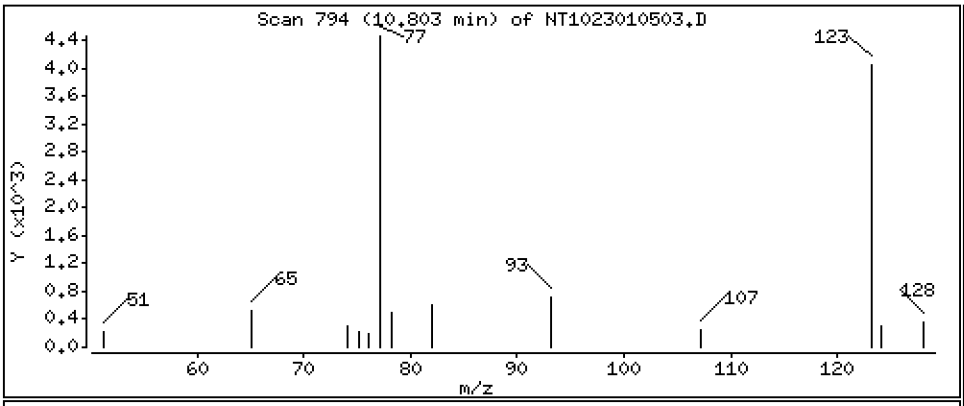
Operator: VTS

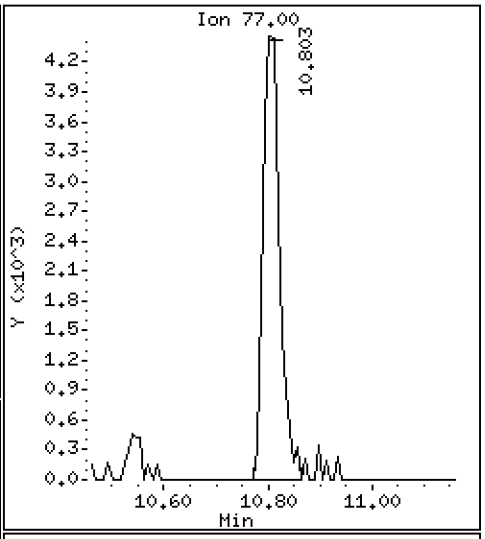
Column phase: ZB-5msi

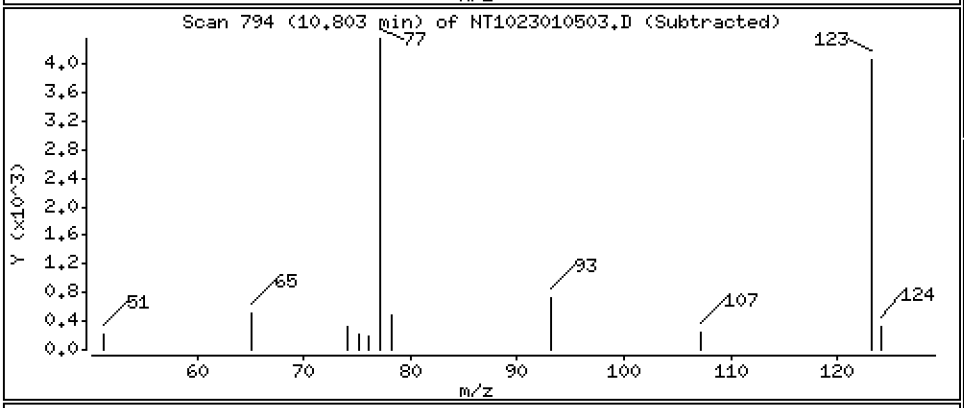
Column diameter: 0.25

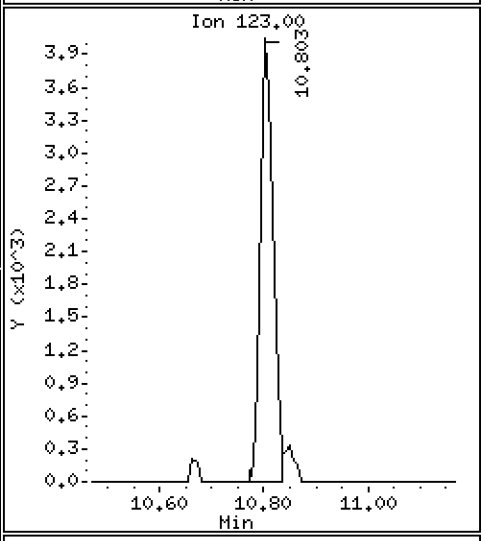
19 Nitrobenzene

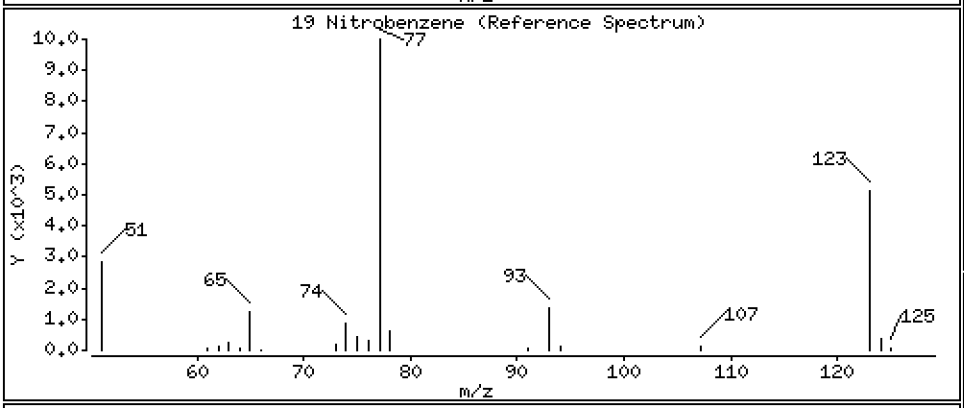
Concentration: 0.4464 ug/mL

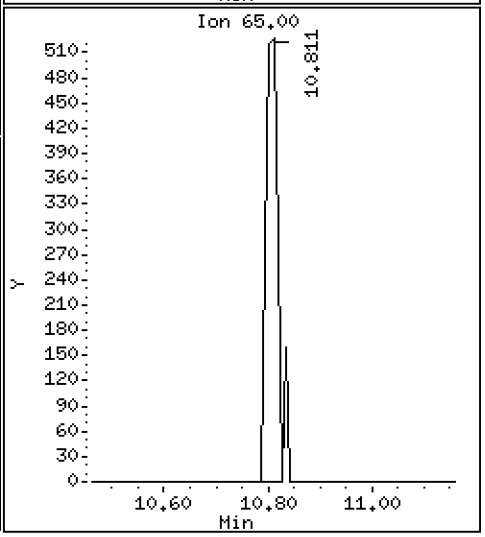


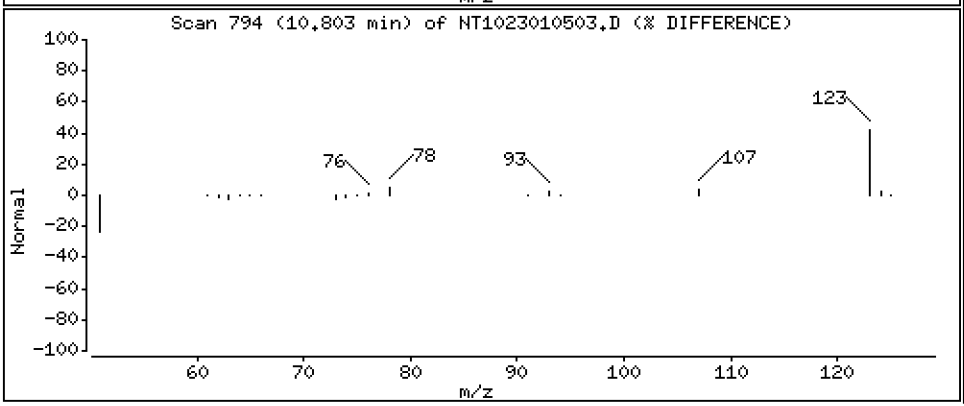












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

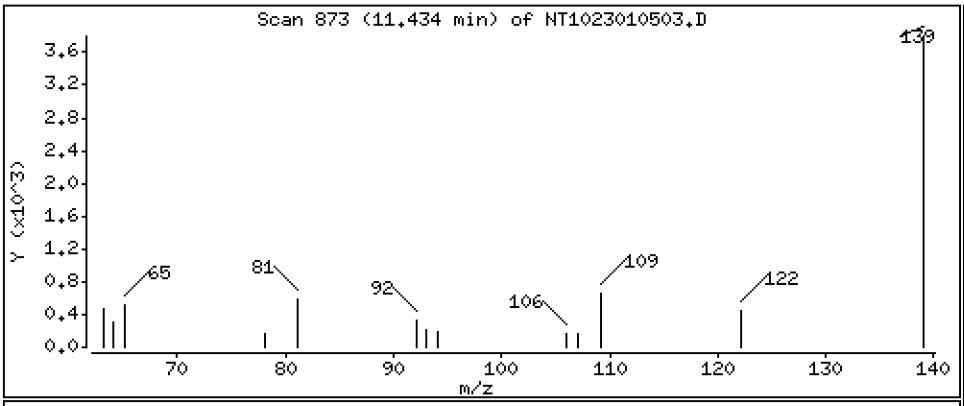
Operator: VTS

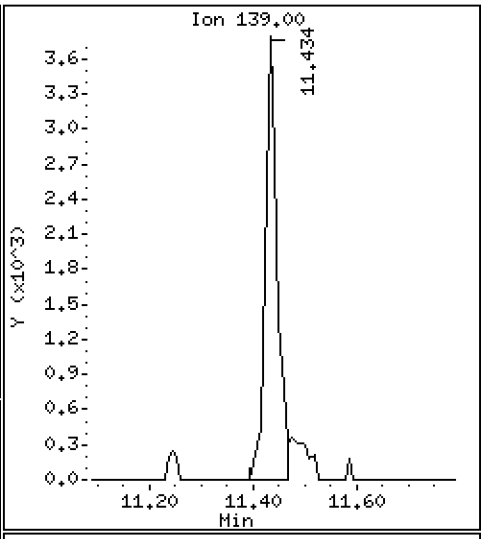
Column phase: ZB-5msi

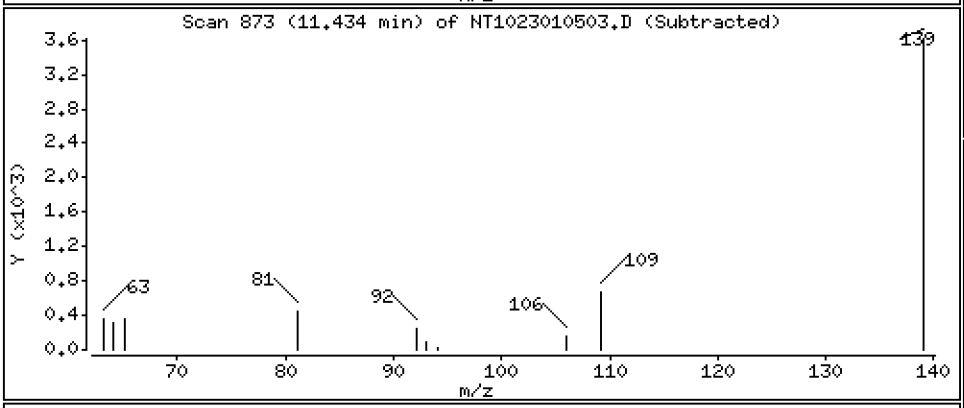
Column diameter: 0.25

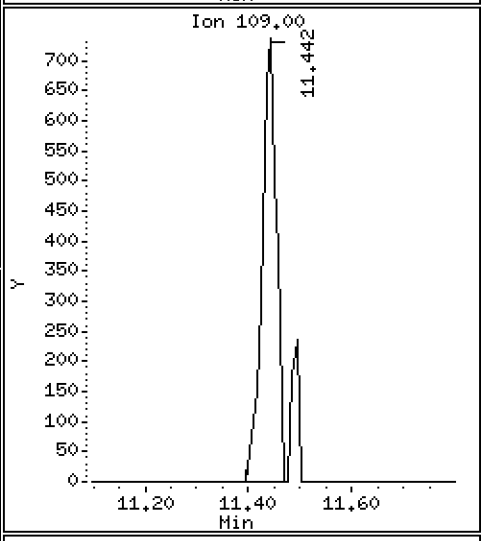
21 2-Nitrophenol

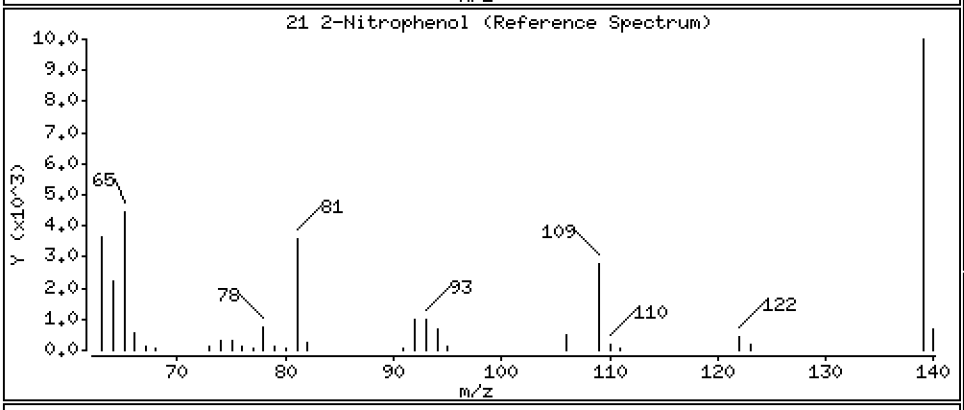
Concentration: 0.3666 ug/mL

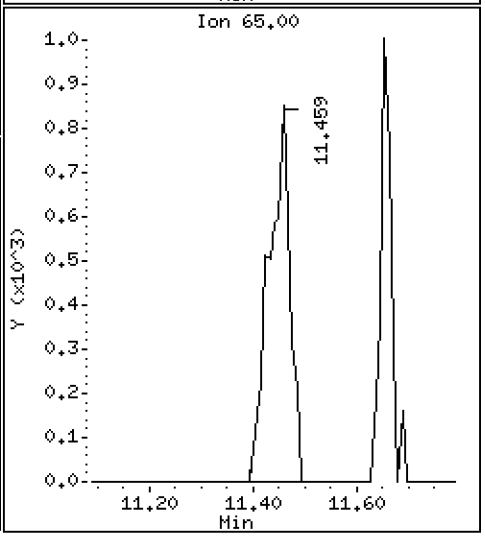


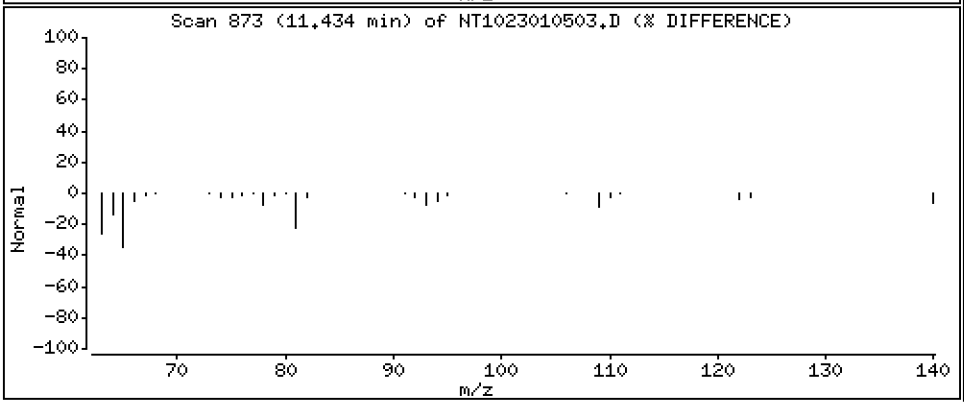












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

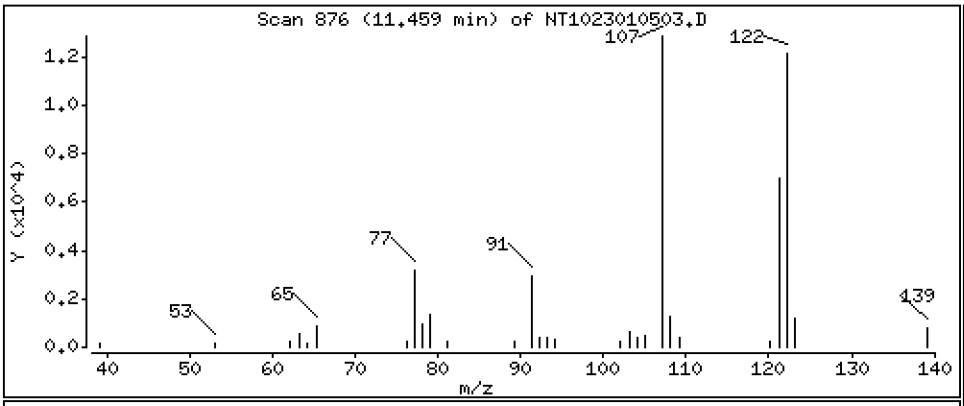
Operator: VTS

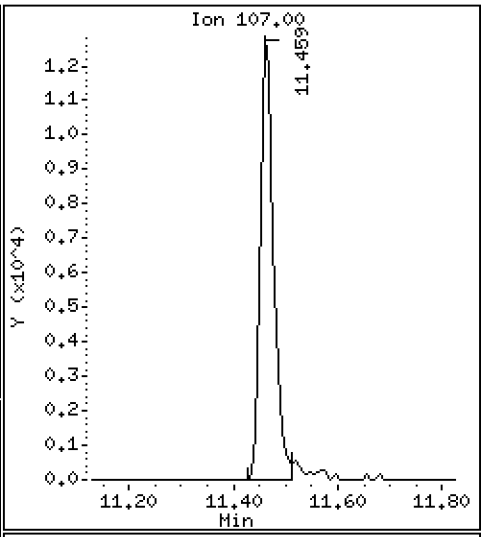
Column phase: ZB-5msi

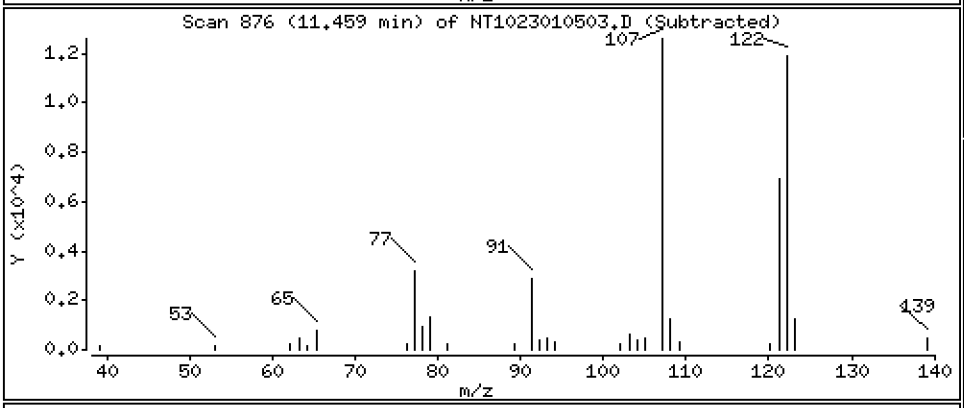
Column diameter: 0.25

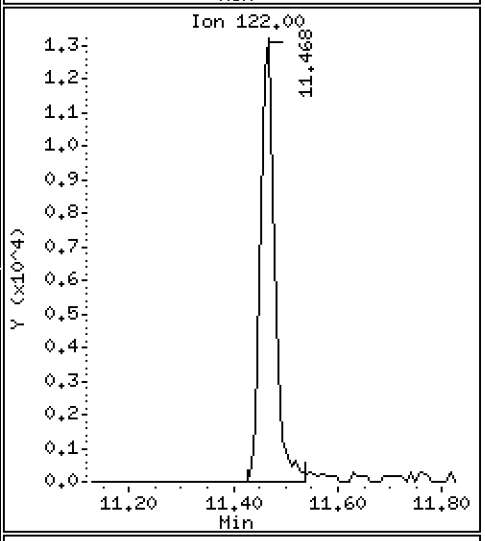
22 2,4-Dimethylphenol

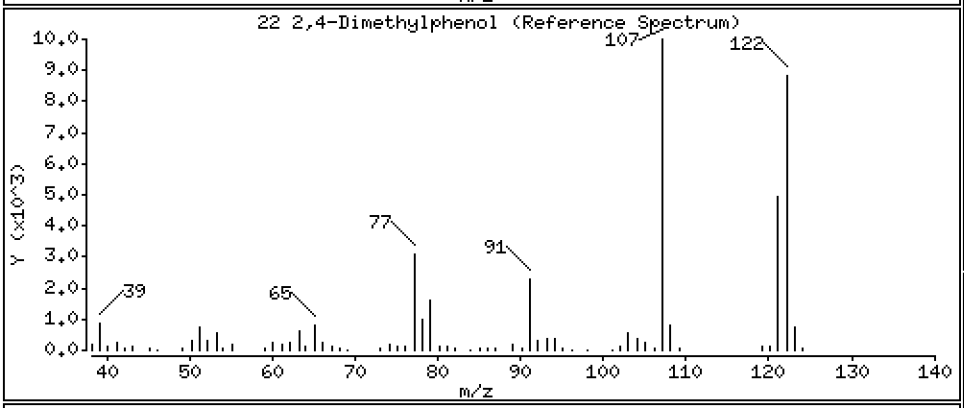
Concentration: 0.7976 ug/mL

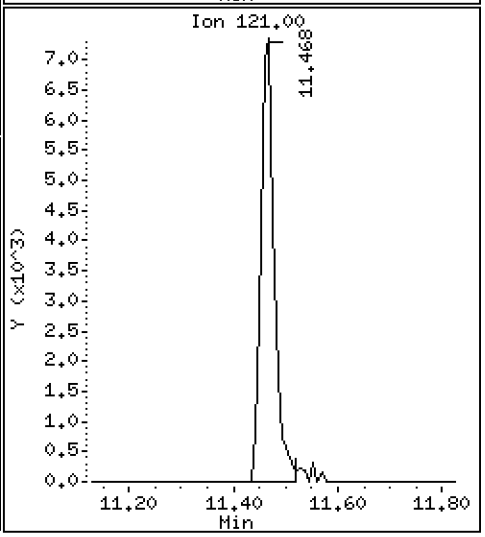


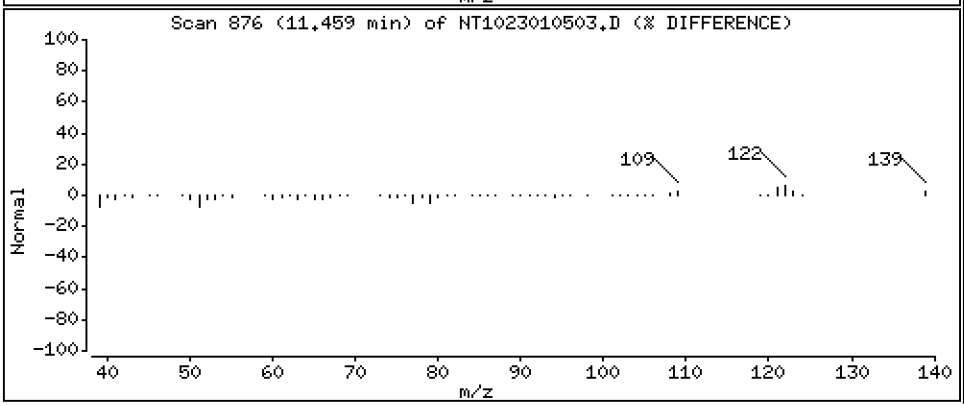












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

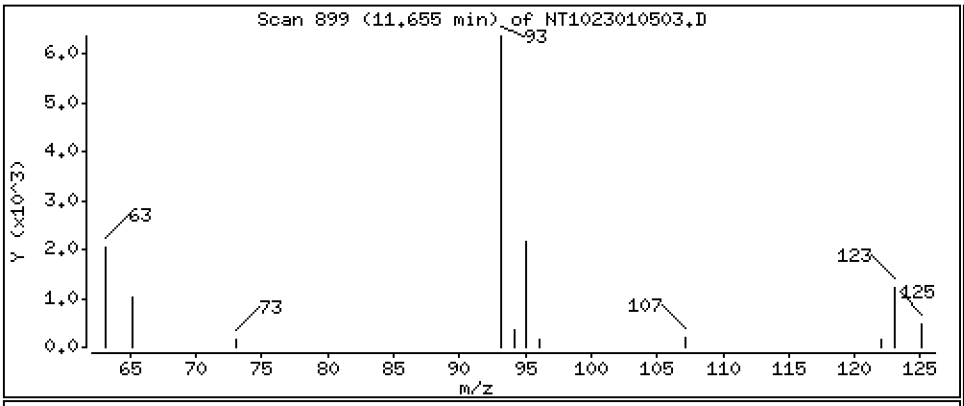
Operator: VTS

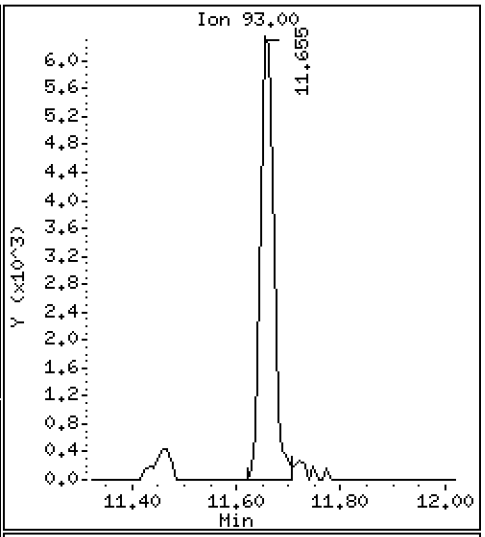
Column phase: ZB-5msi

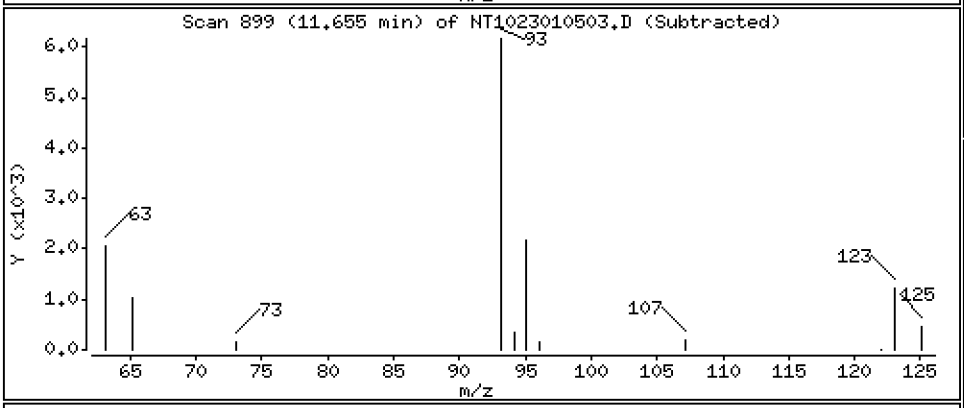
Column diameter: 0.25

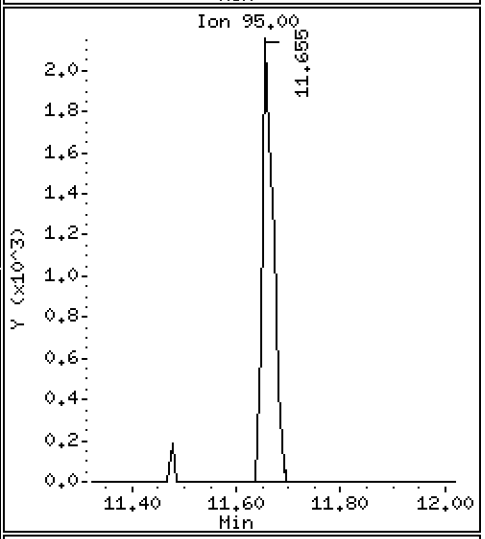
23 Bis(2-Chloroethoxy)methane

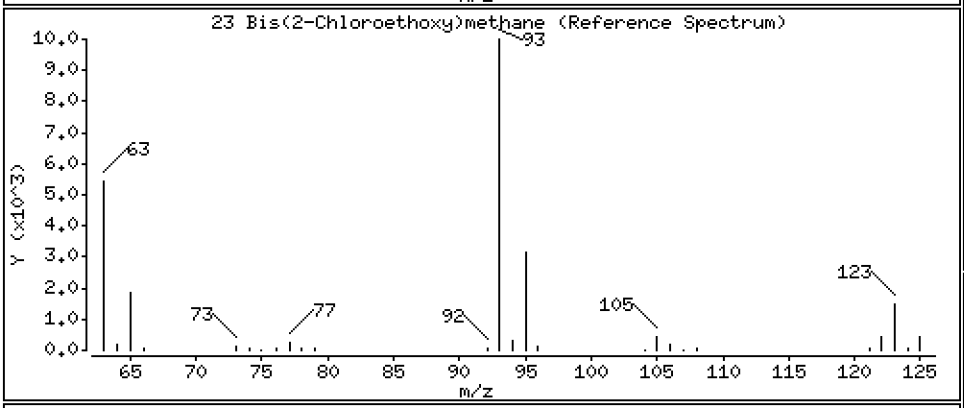
Concentration: 0.4657 ug/mL

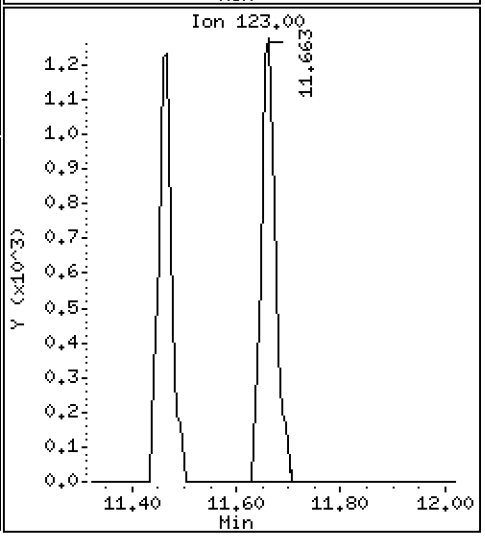


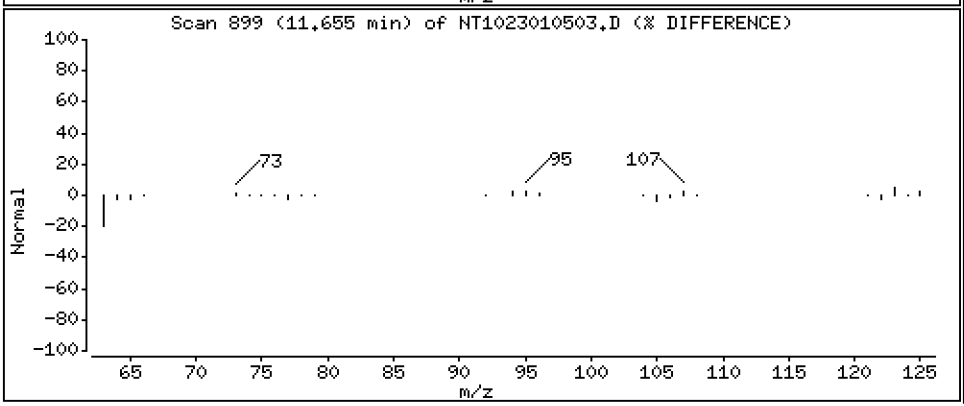












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

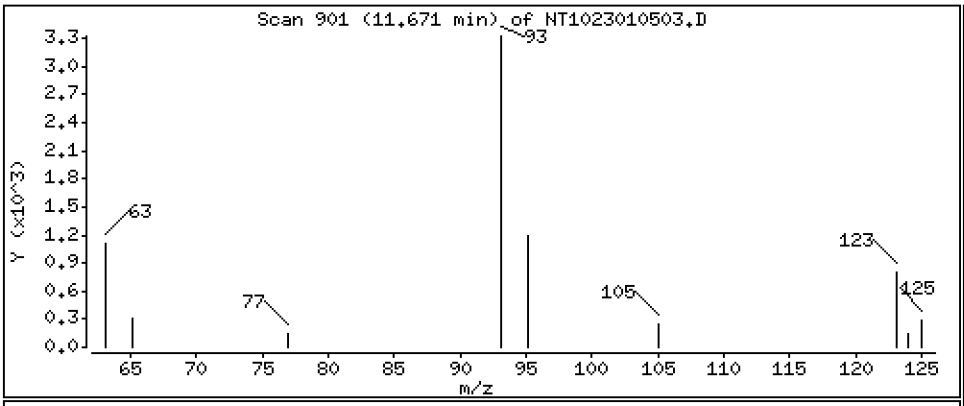
Operator: VTS

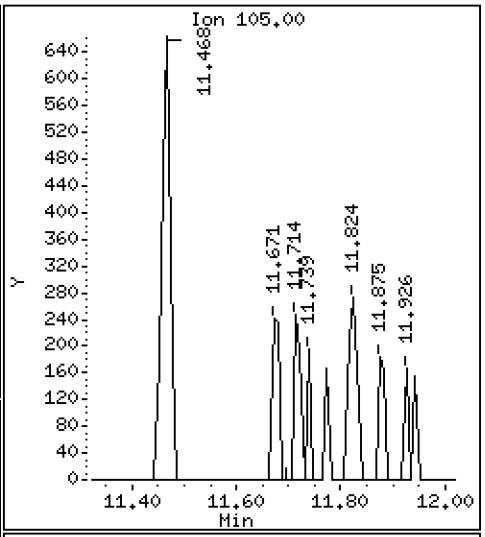
Column phase: ZB-5msi

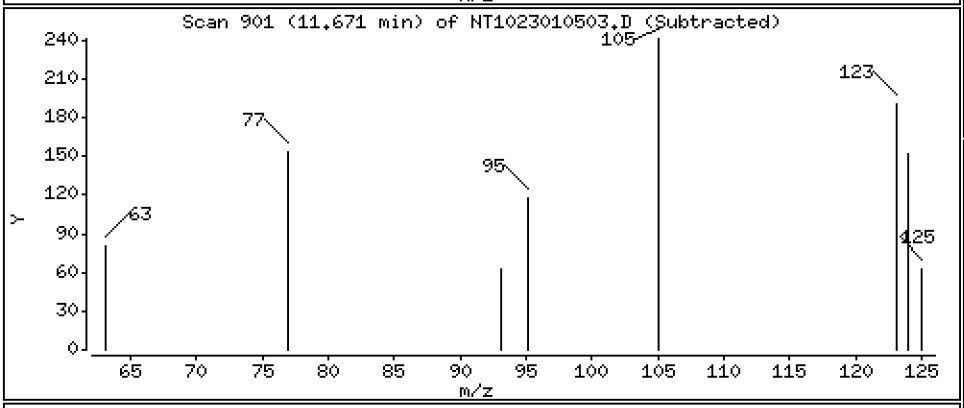
Column diameter: 0.25

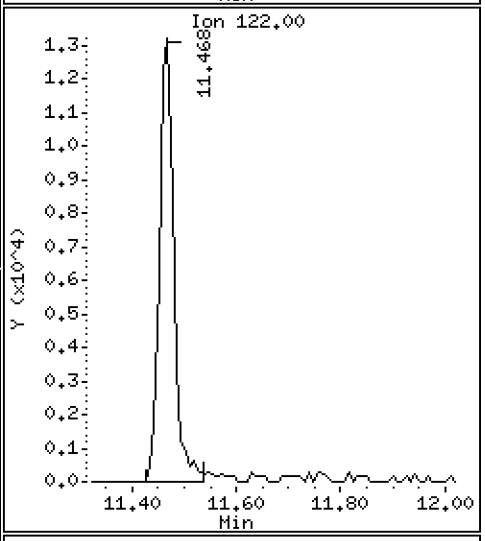
24 Benzoic acid

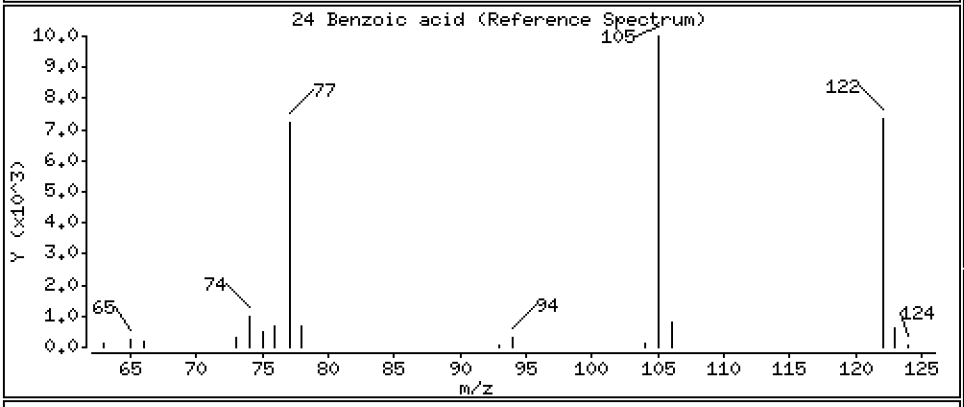
Concentration: 0.02070 ug/mL

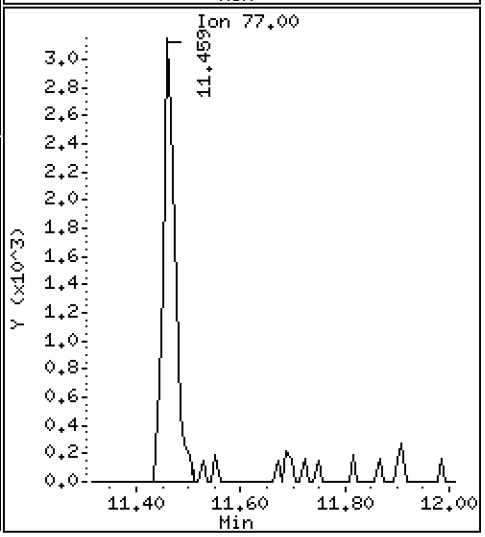


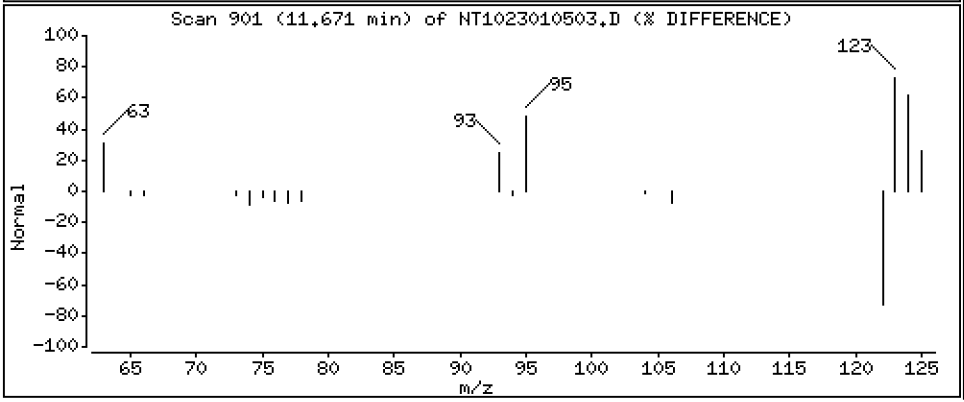












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

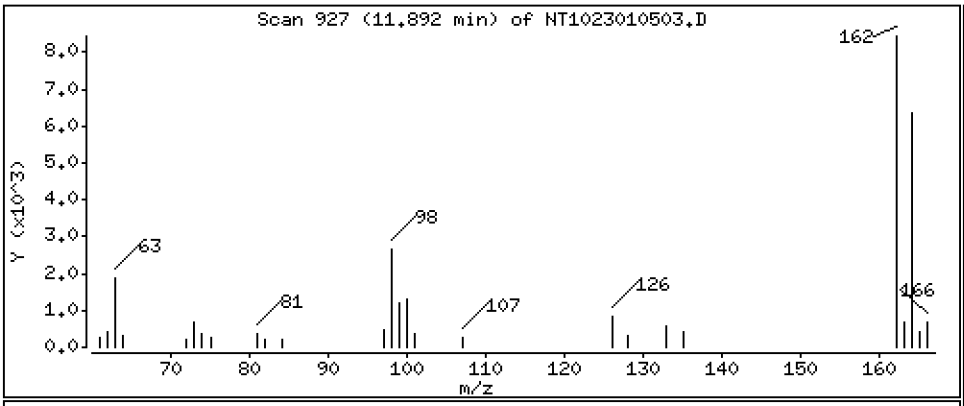
Operator: VTS

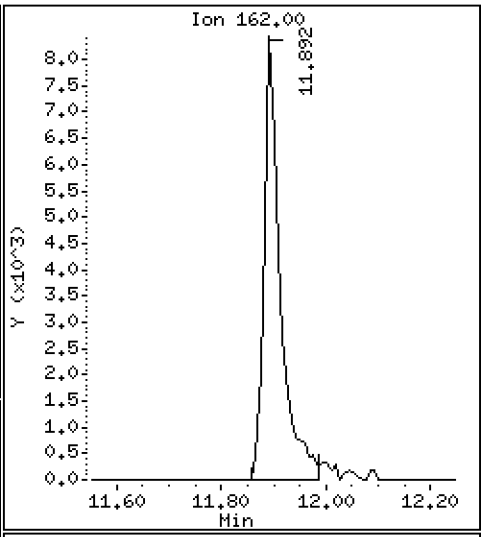
Column phase: ZB-5msi

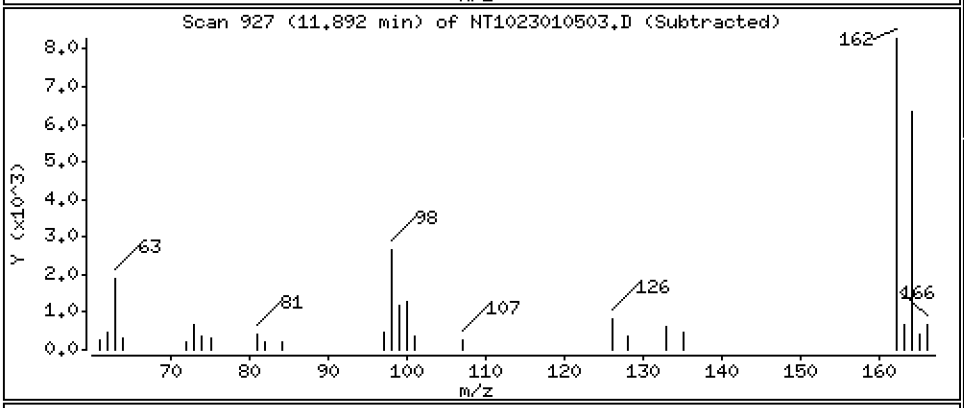
Column diameter: 0.25

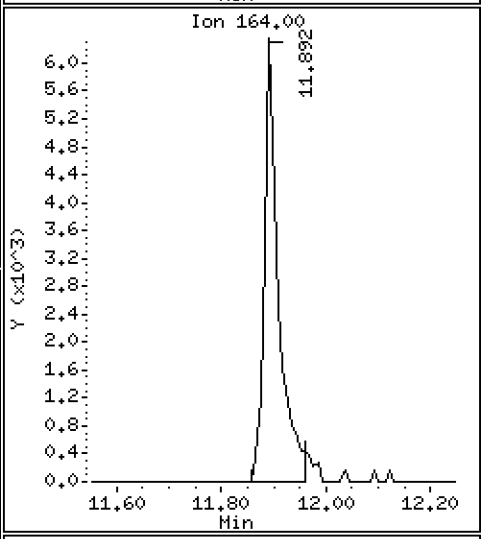
25 2,4-Dichlorophenol

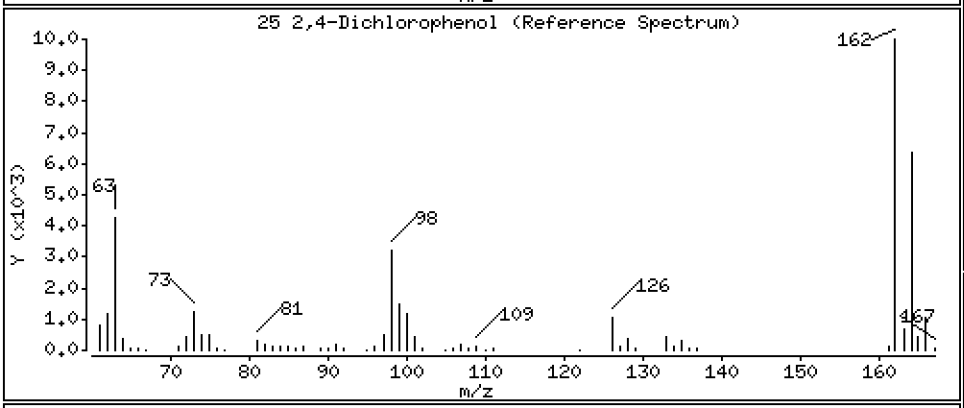
Concentration: 0.8305 ug/mL

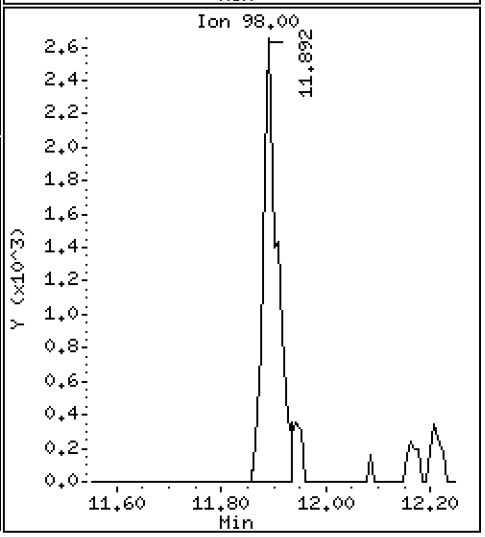


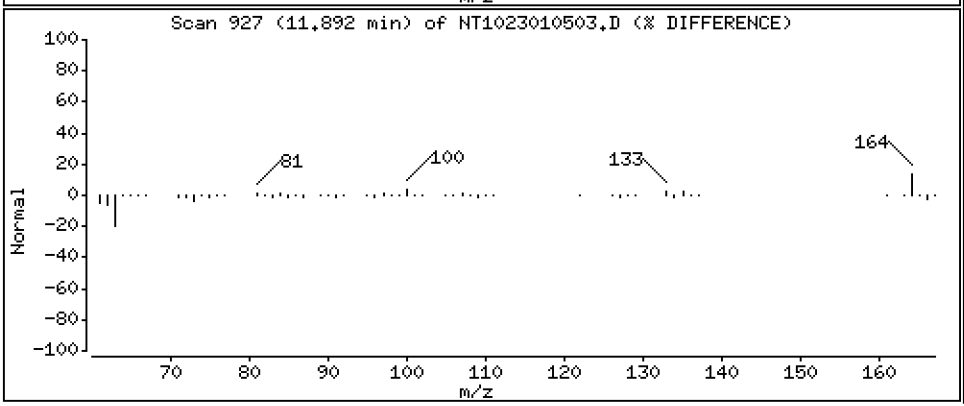












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

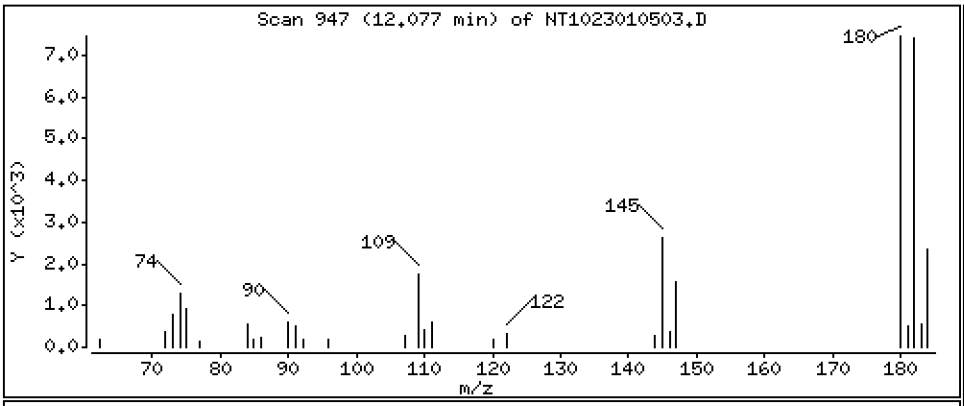
Operator: VTS

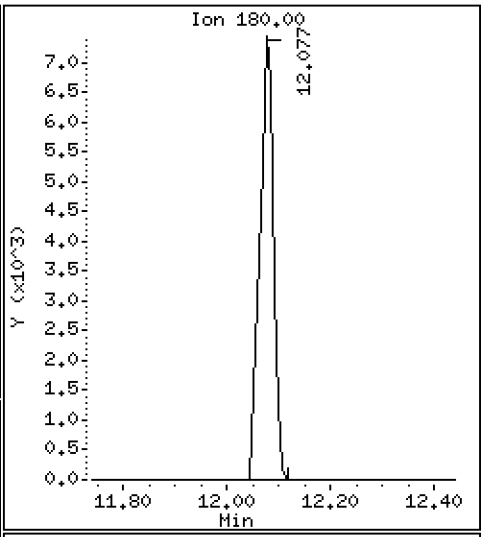
Column phase: ZB-5msi

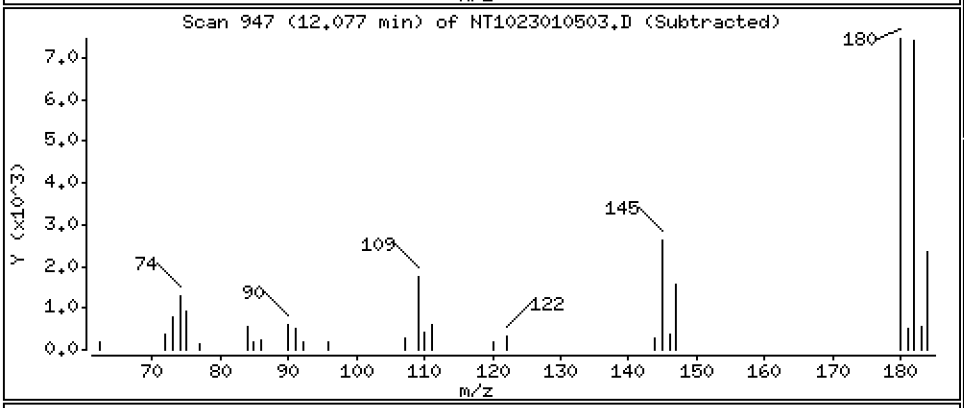
Column diameter: 0.25

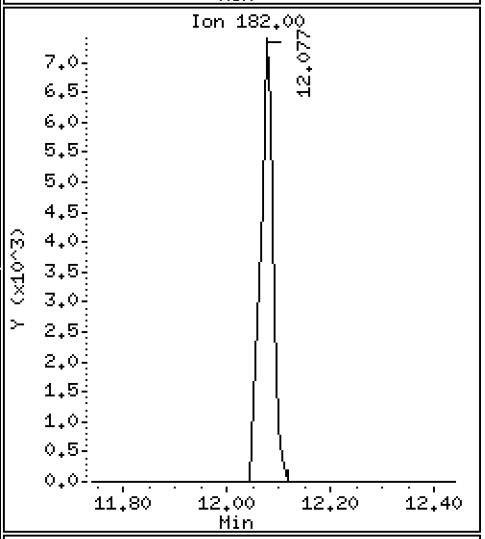
26 1,2,4-Trichlorobenzene

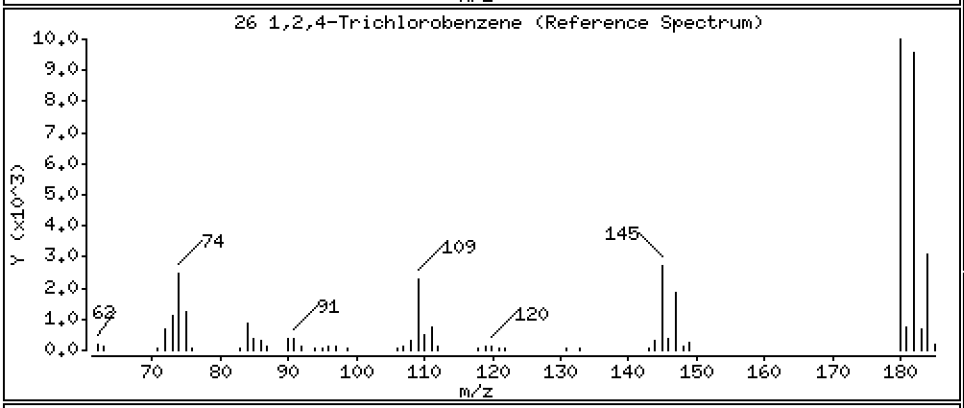
Concentration: 0.6190 ug/mL

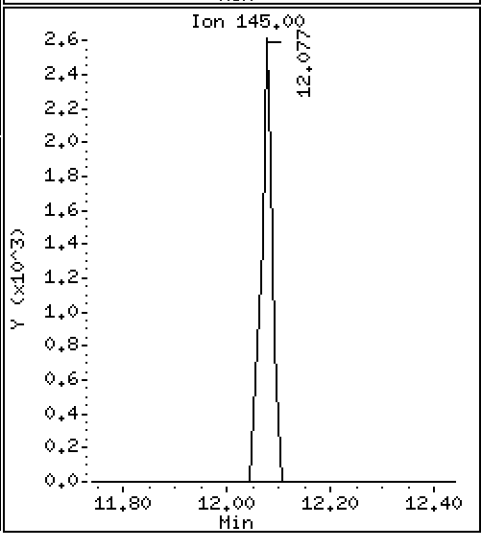


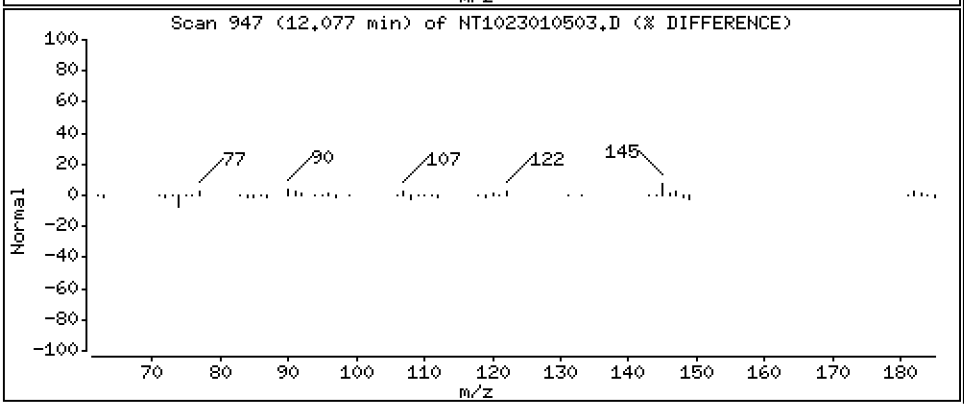












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

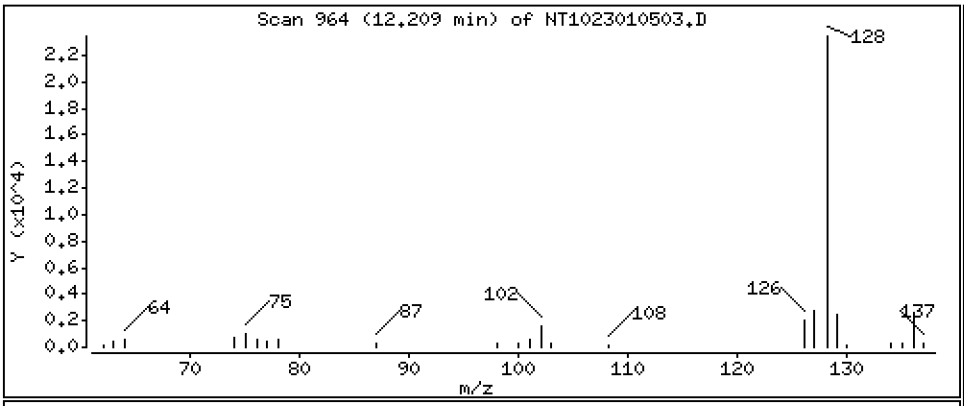
Operator: VTS

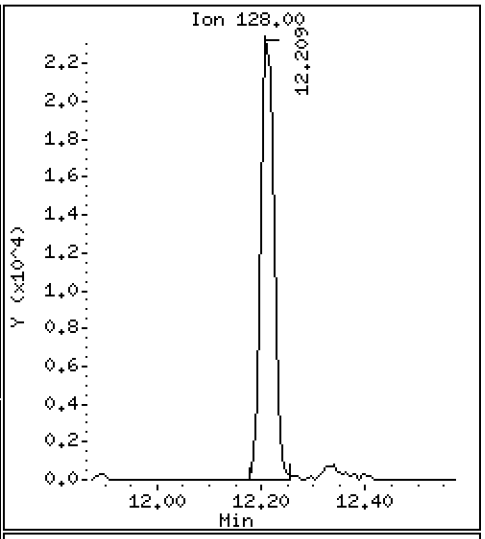
Column phase: ZB-5msi

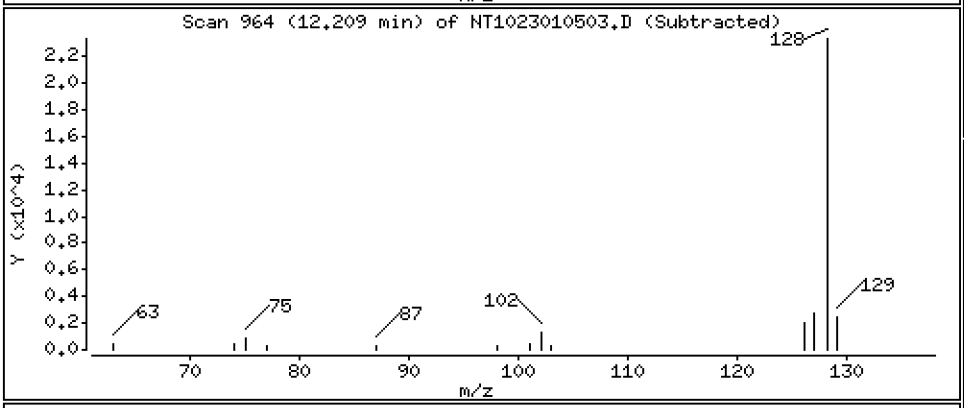
Column diameter: 0.25

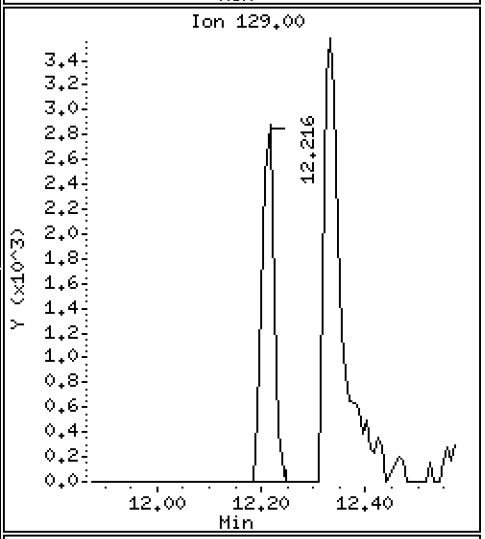
28 Naphthalene

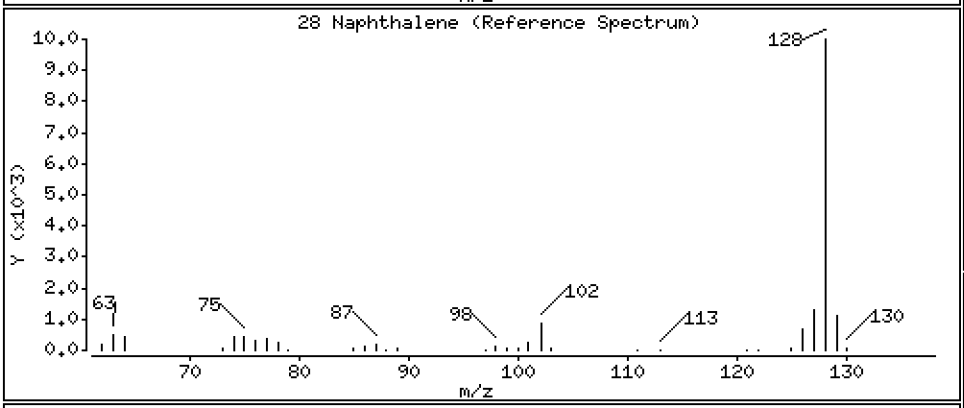
Concentration: 0.4811 ug/mL

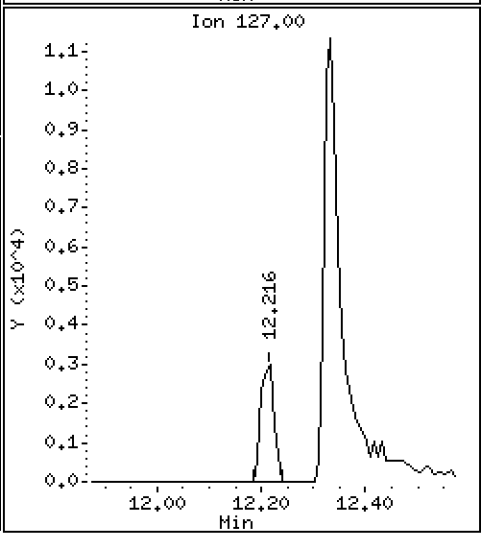


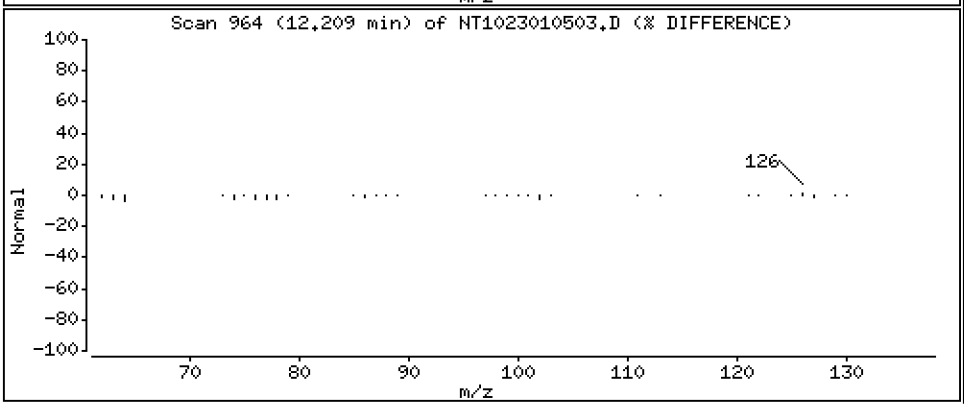












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

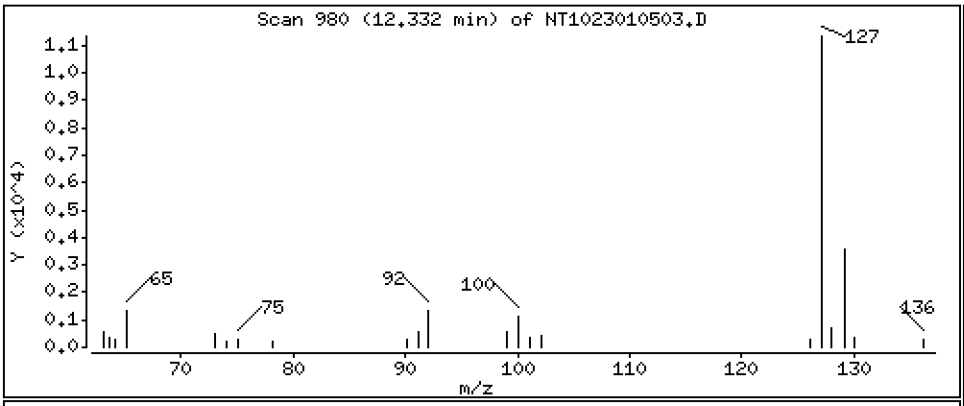
Operator: VTS

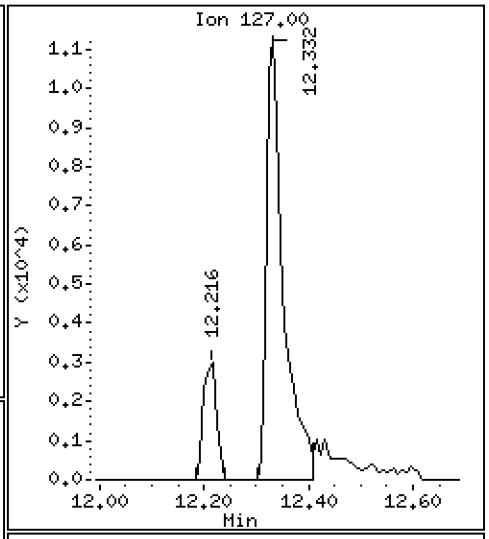
Column phase: ZB-5msi

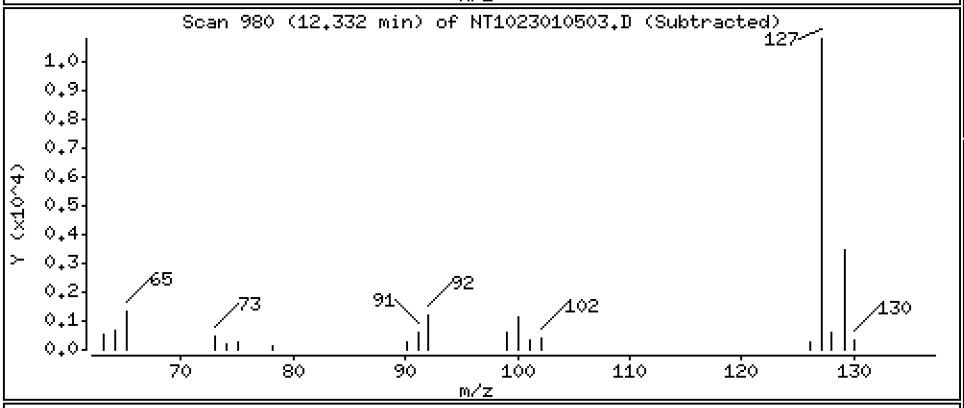
Column diameter: 0.25

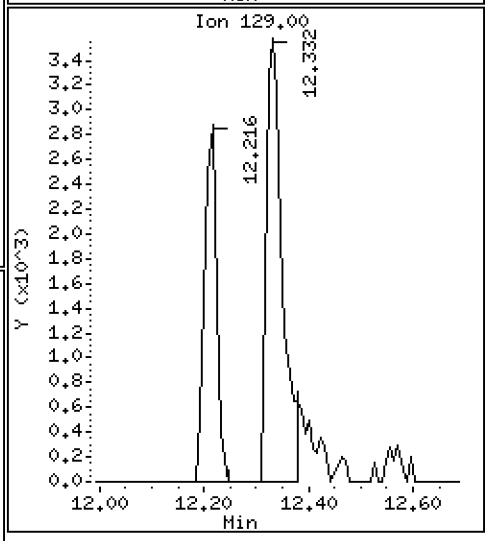
29 4-Chloroaniline

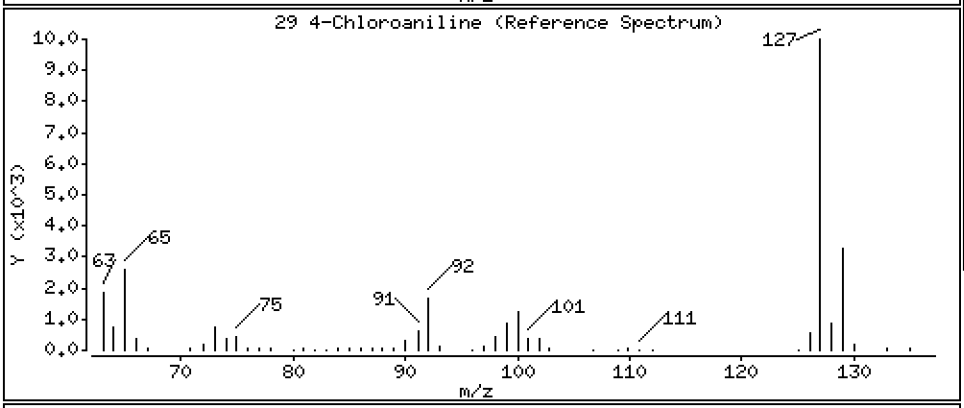
Concentration: 0.8326 ug/mL

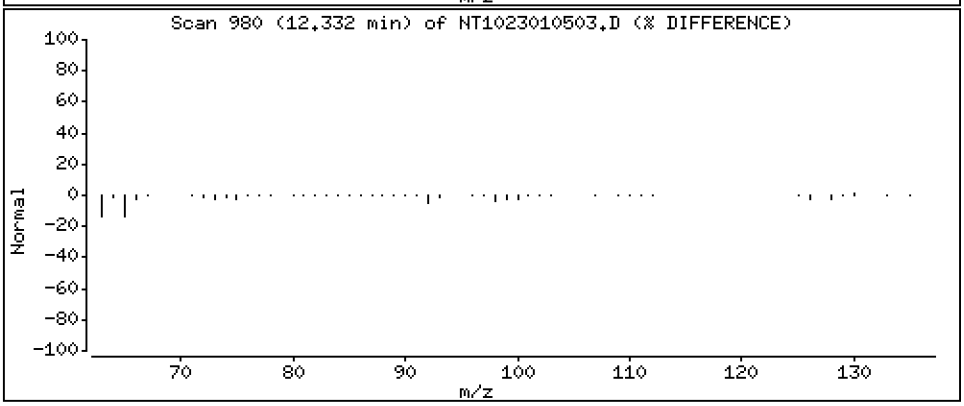












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

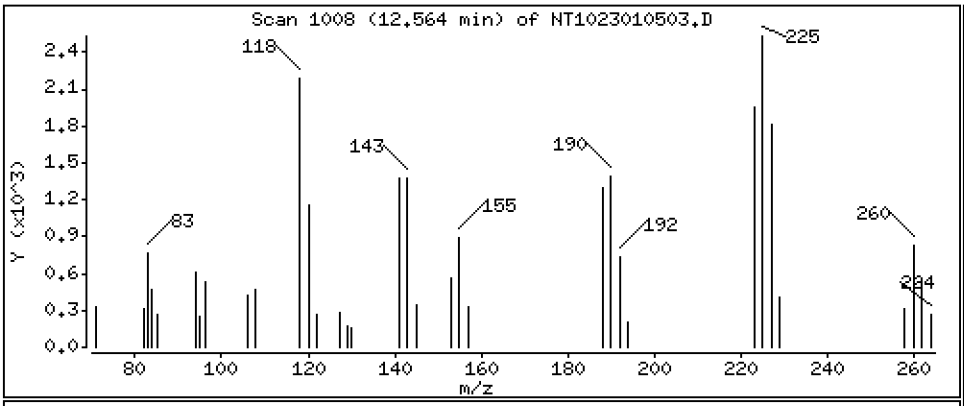
Operator: VTS

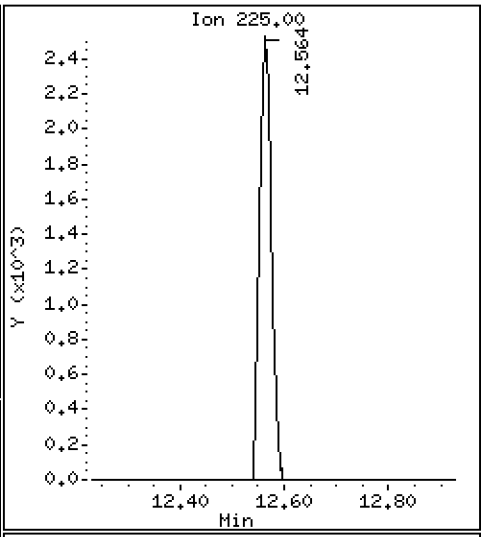
Column phase: ZB-5msi

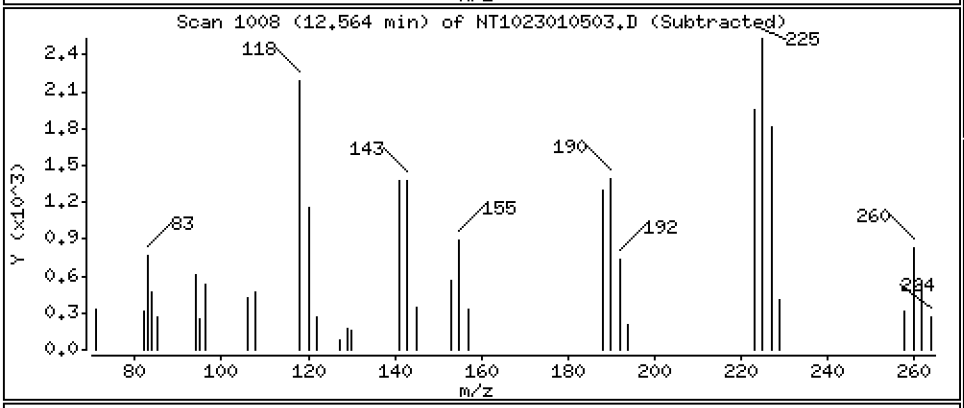
Column diameter: 0.25

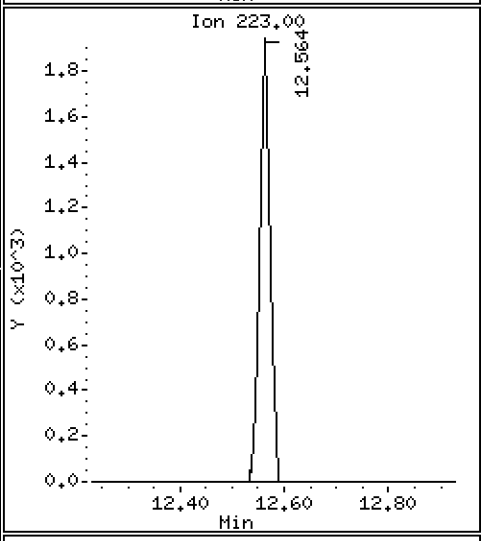
30 Hexachlorobutadiene

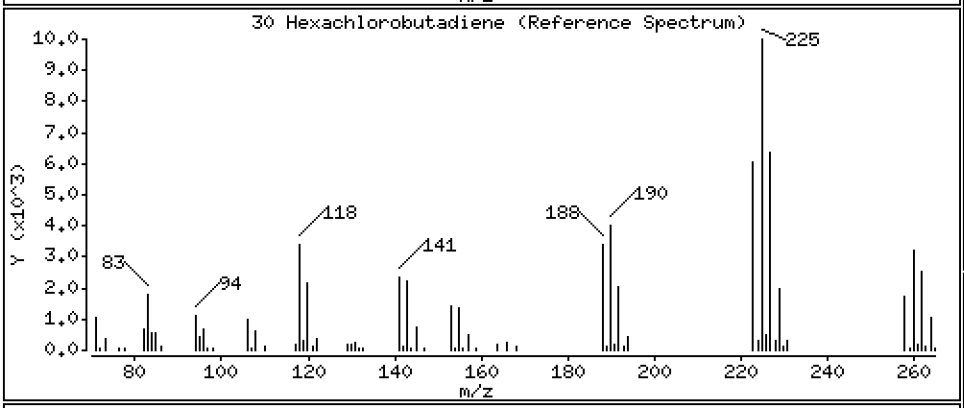
Concentration: 0.4636 ug/mL

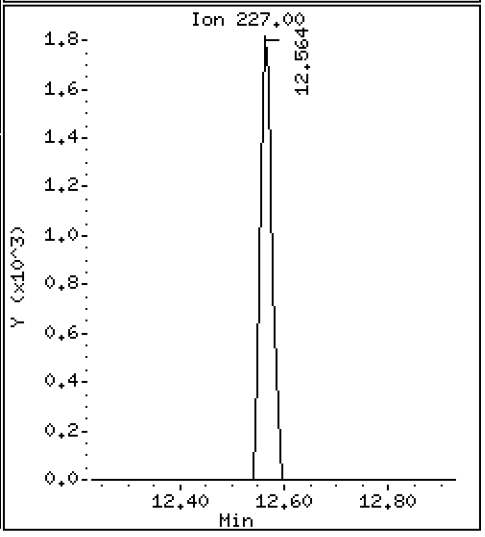


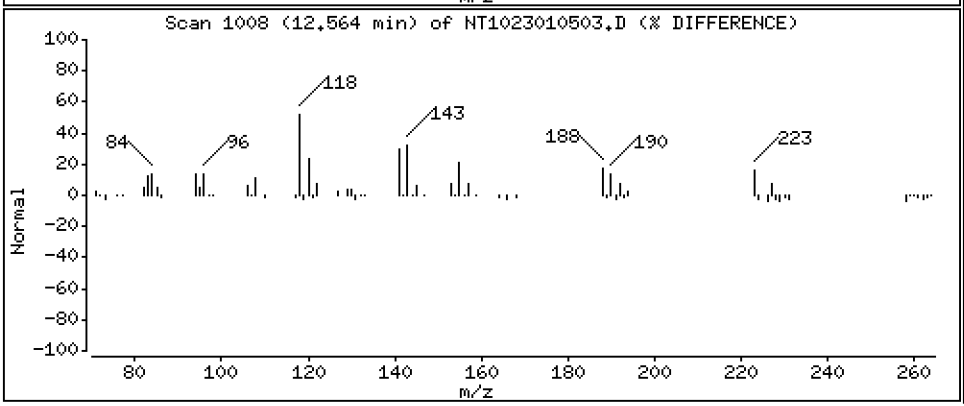












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

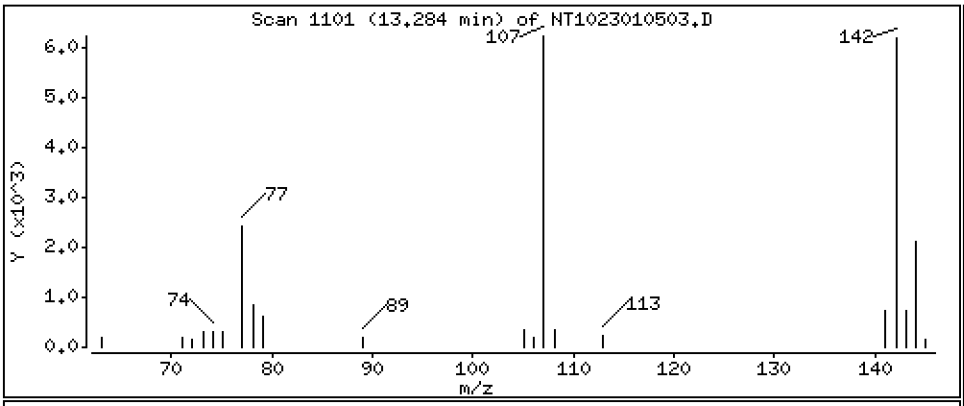
Operator: VTS

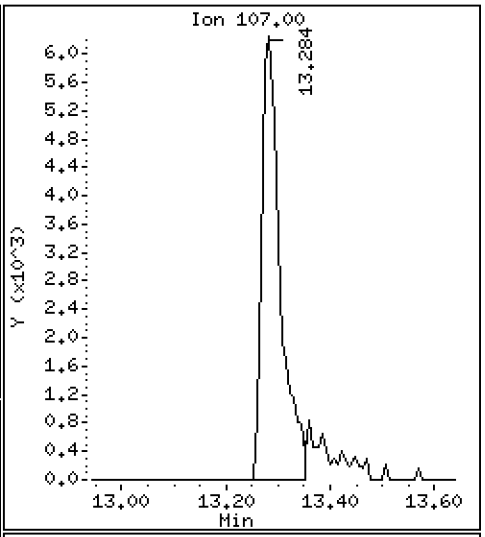
Column phase: ZB-5msi

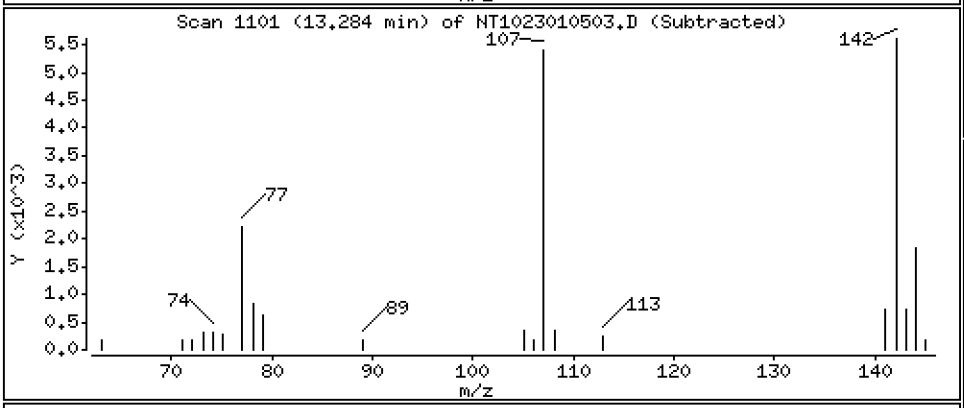
Column diameter: 0.25

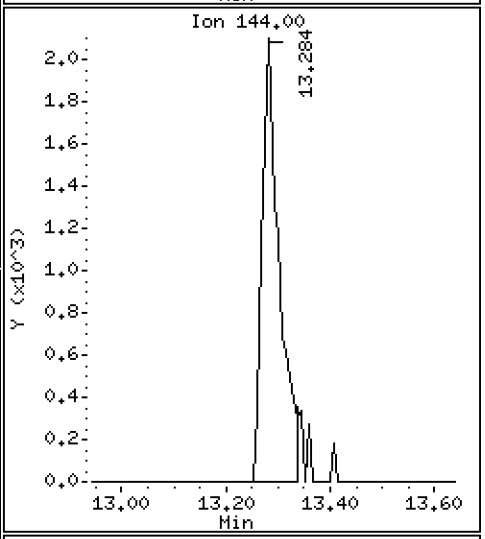
31 4-Chloro-3-methylphenol

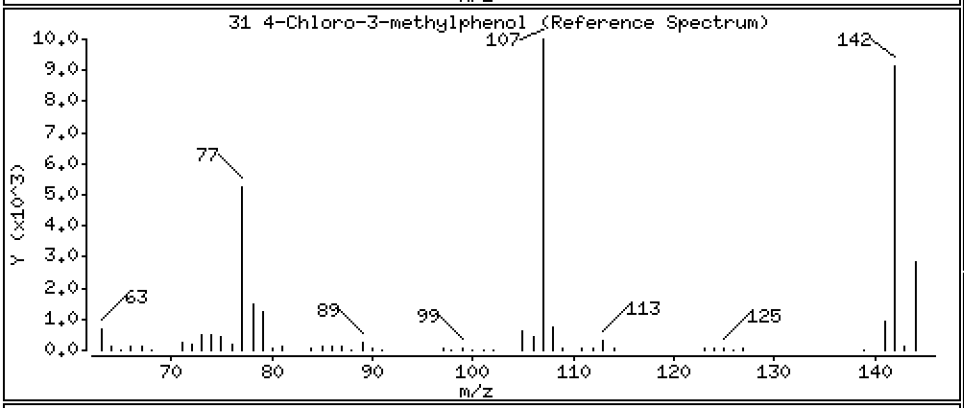
Concentration: 0.6568 ug/mL

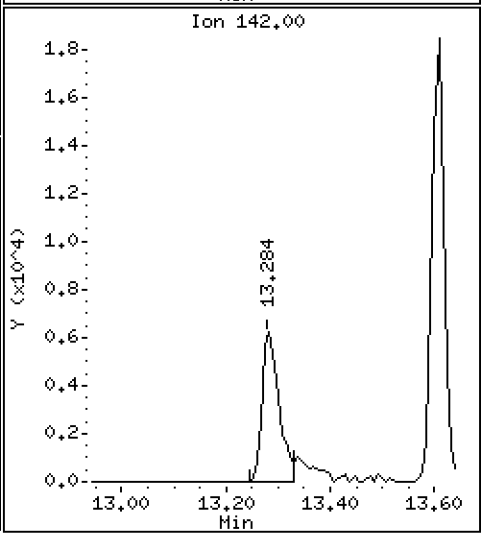


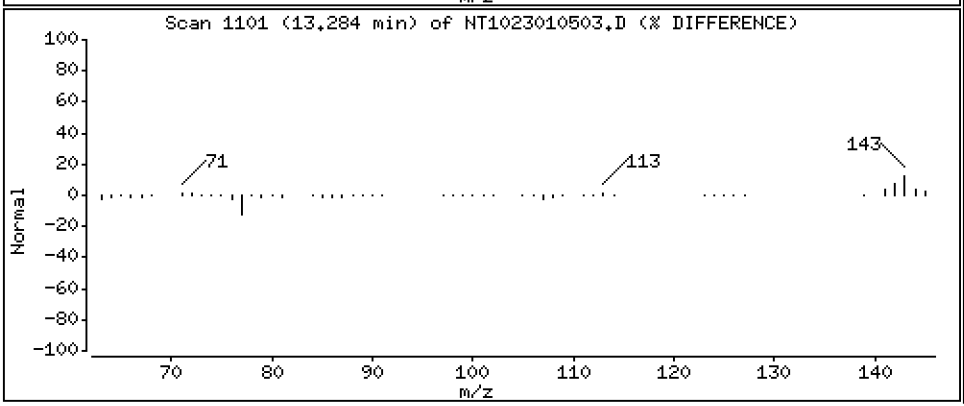












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

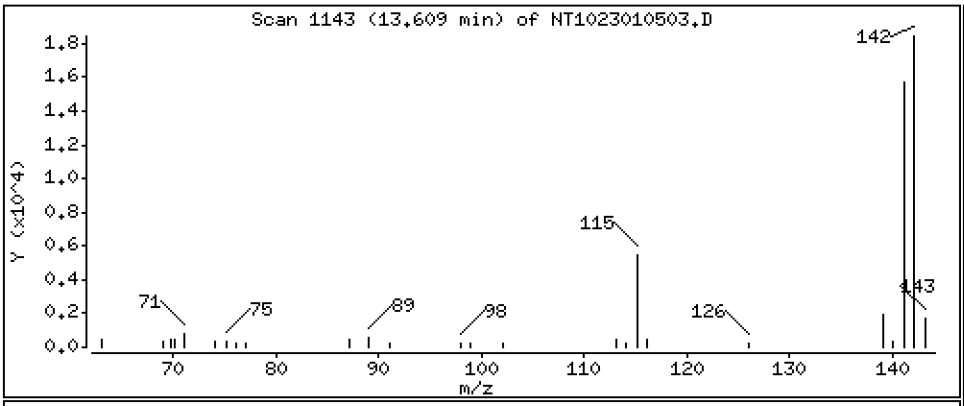
Operator: VTS

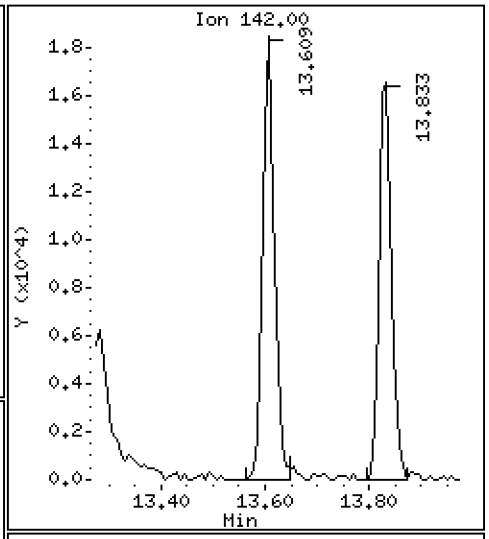
Column phase: ZB-5msi

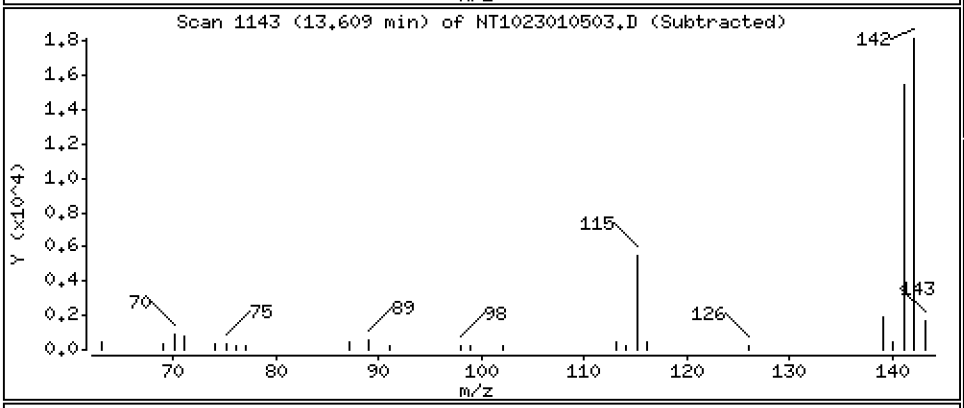
Column diameter: 0.25

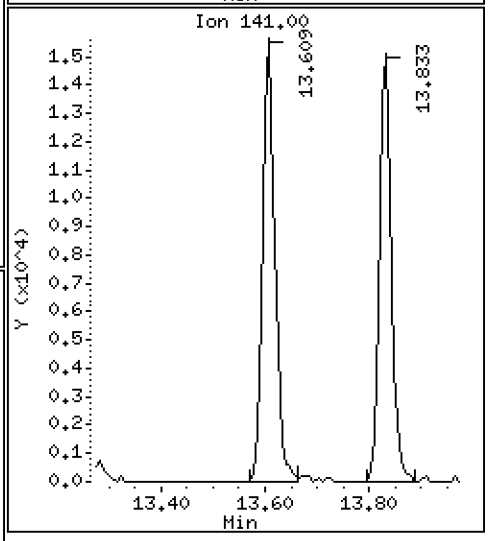
32 2-Methylnaphthalene

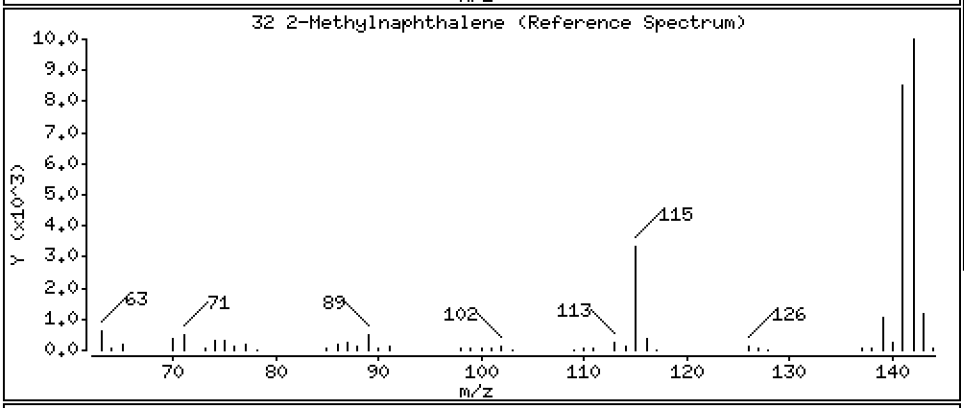
Concentration: 0.4449 ug/mL

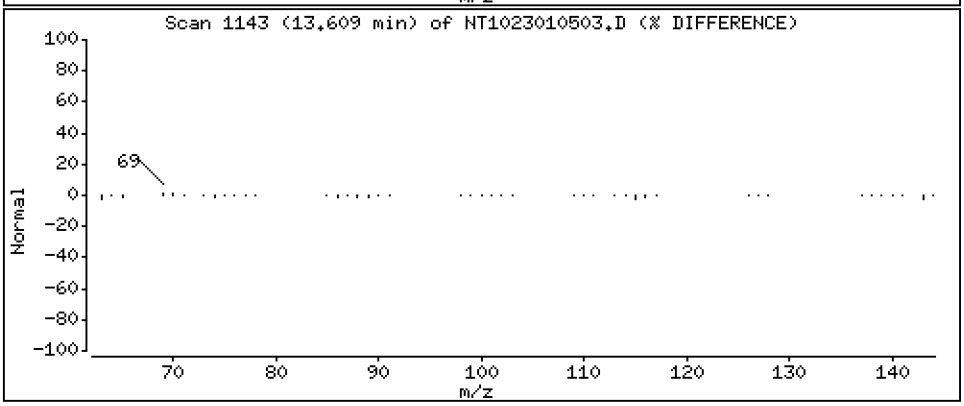












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

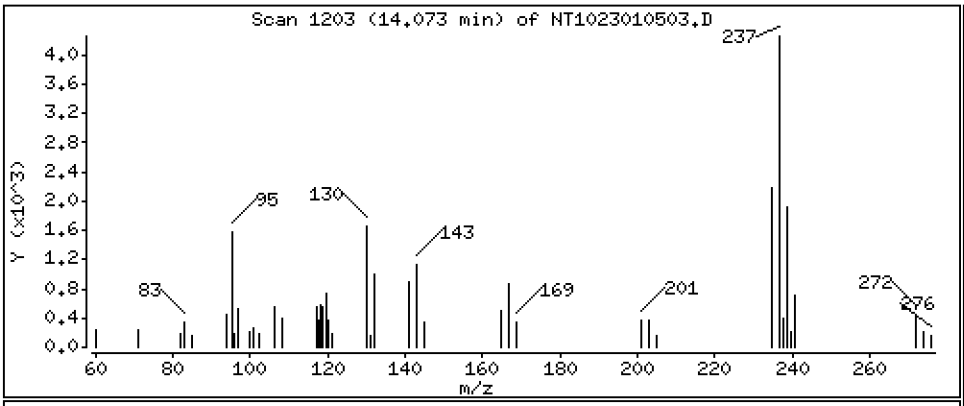
Operator: VTS

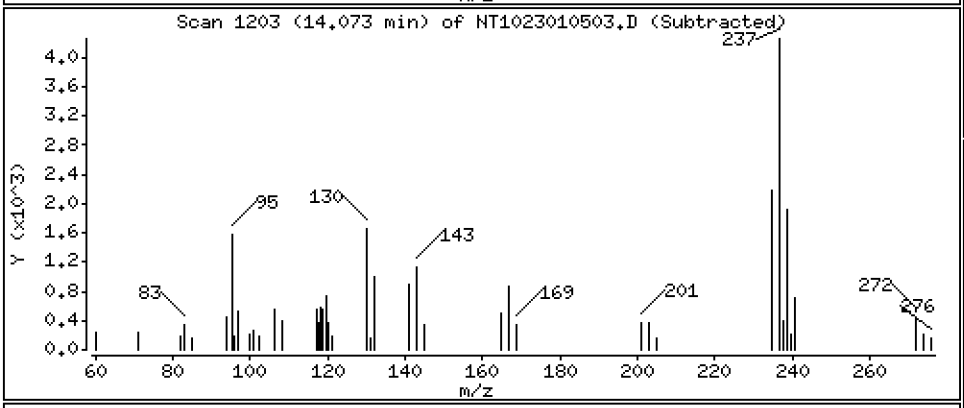
Column phase: ZB-5msi

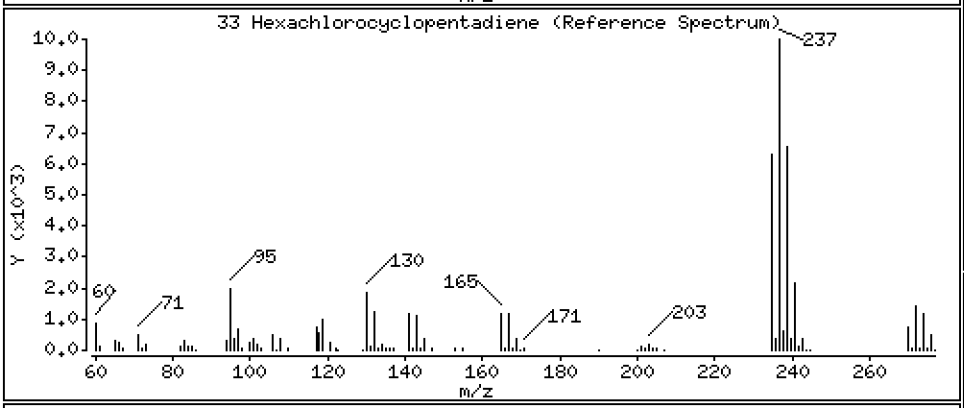
Column diameter: 0.25

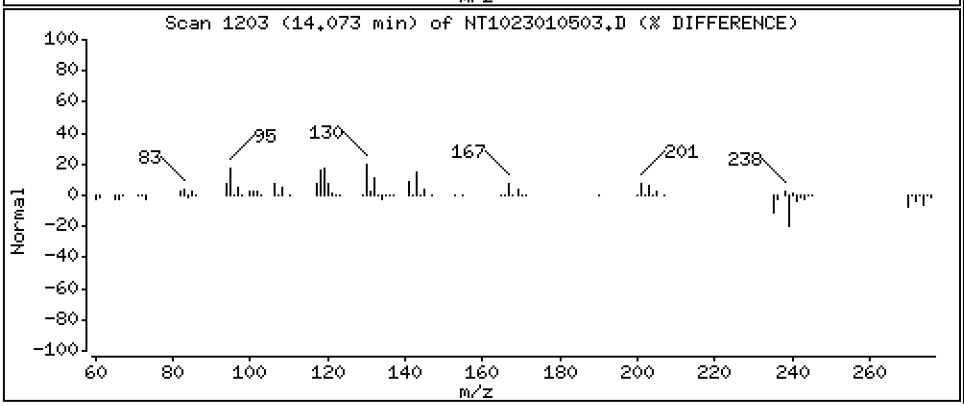
33 Hexachlorocyclopentadiene

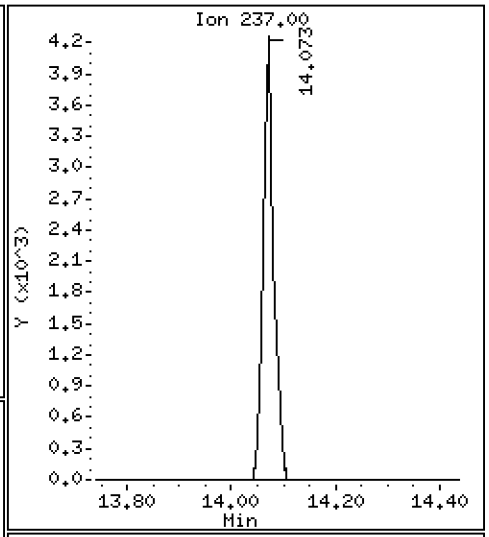
Concentration: 0.7129 ug/mL

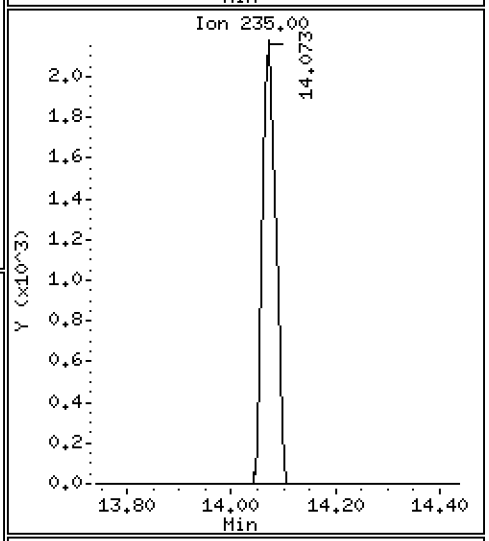


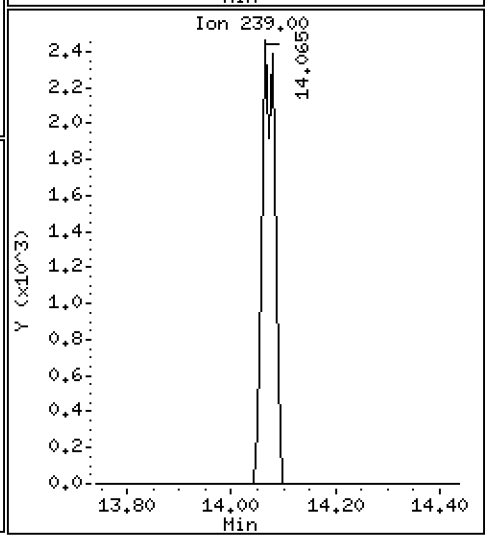












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

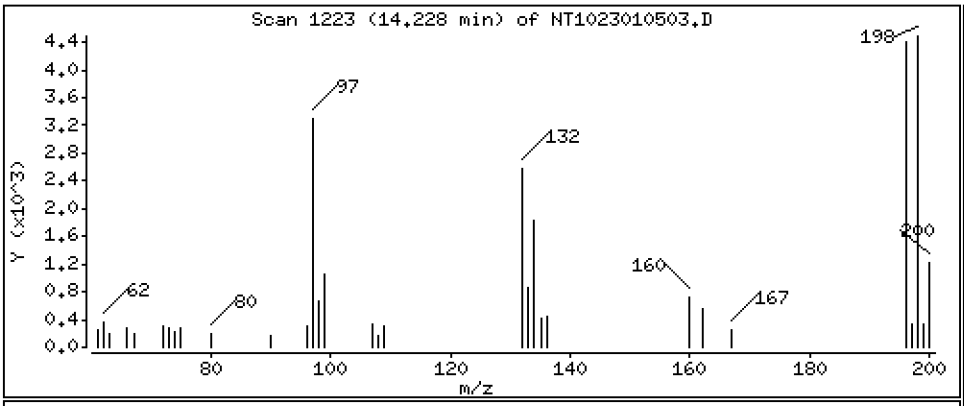
Operator: VTS

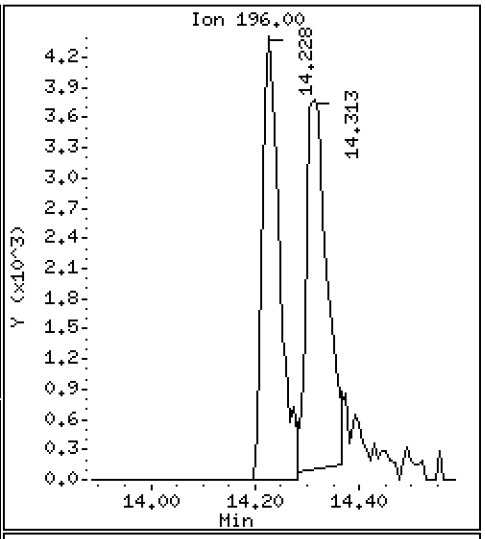
Column phase: ZB-5msi

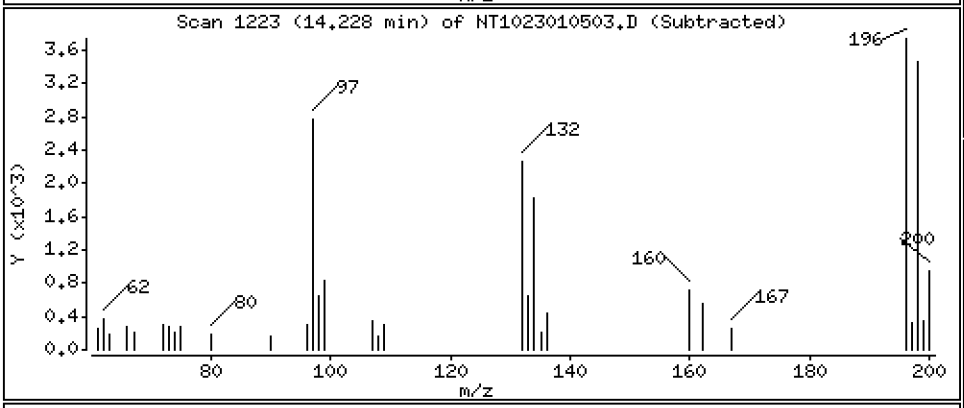
Column diameter: 0.25

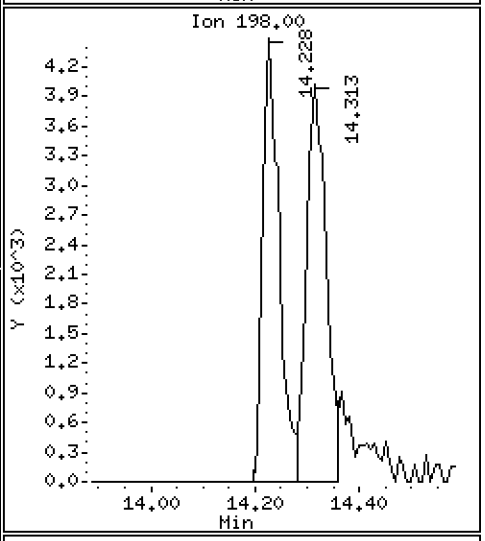
34 2,4,6-Trichlorophenol

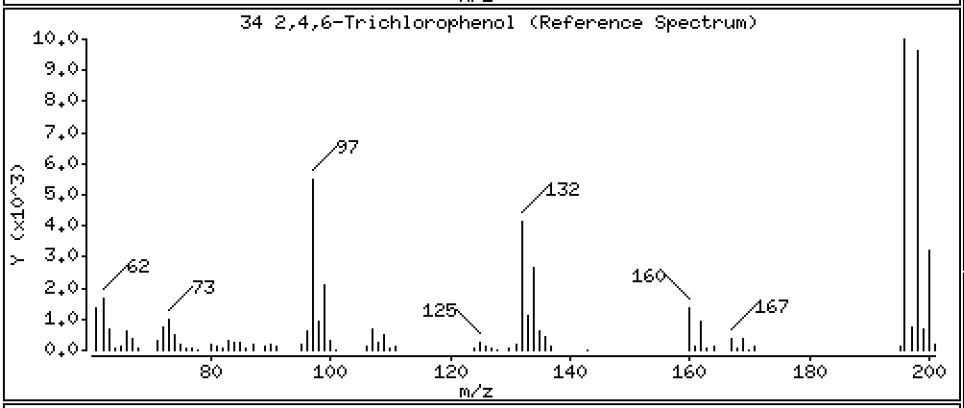
Concentration: 0.7716 ug/mL

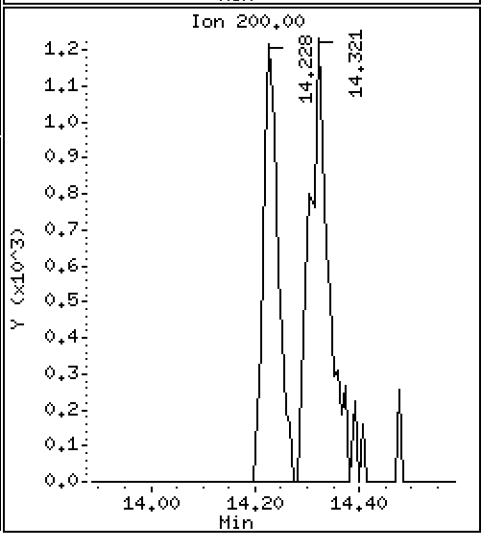


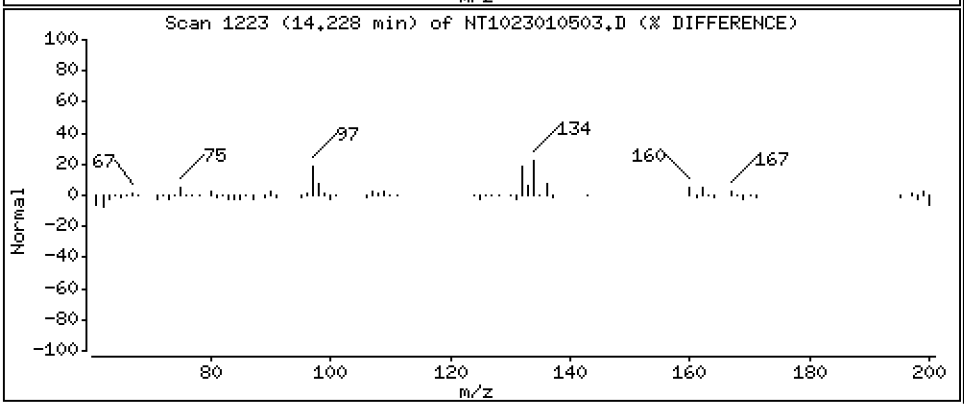












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

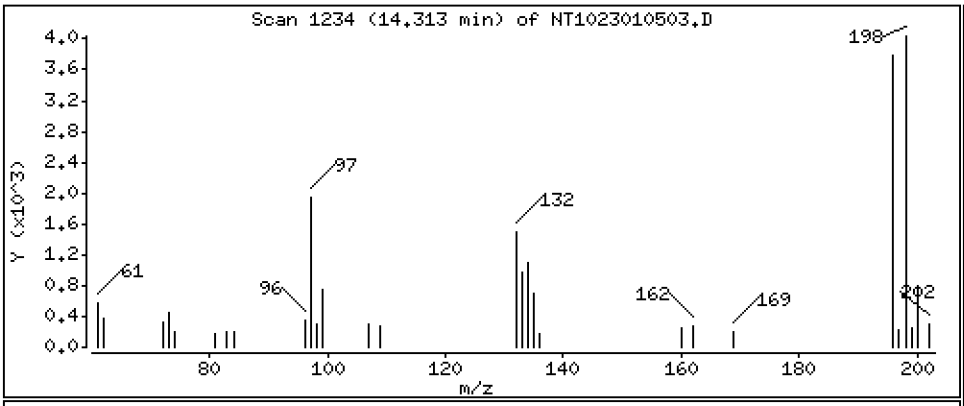
Operator: VTS

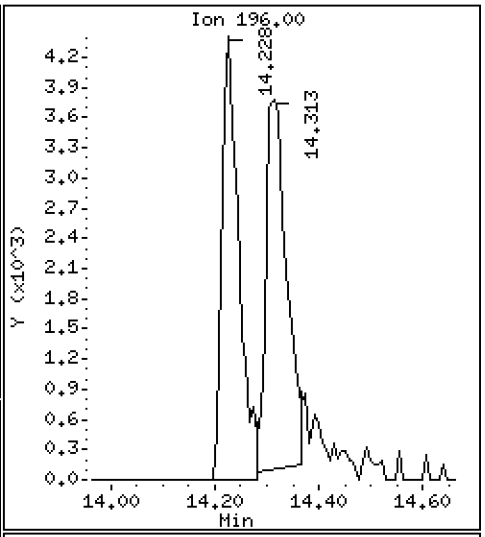
Column phase: ZB-5msi

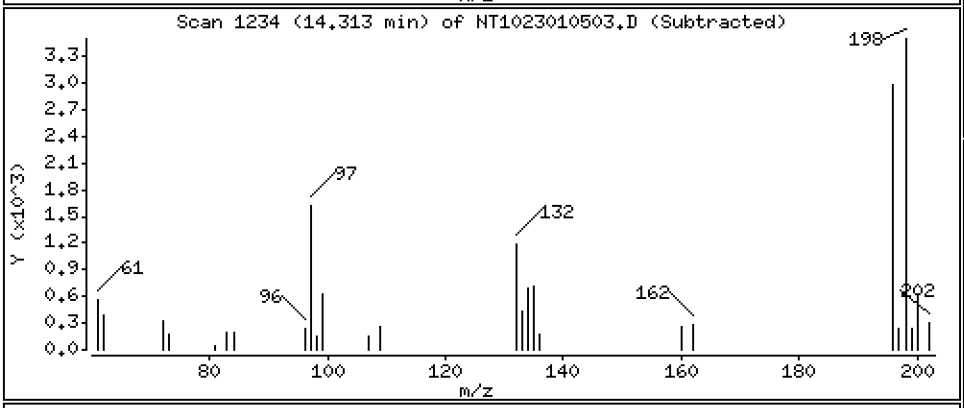
Column diameter: 0.25

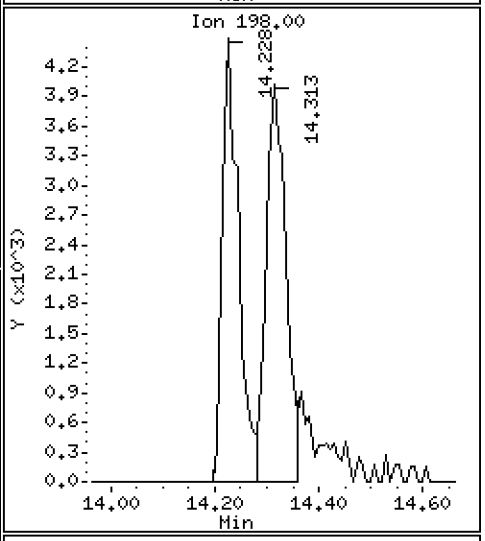
35 2,4,5-Trichlorophenol

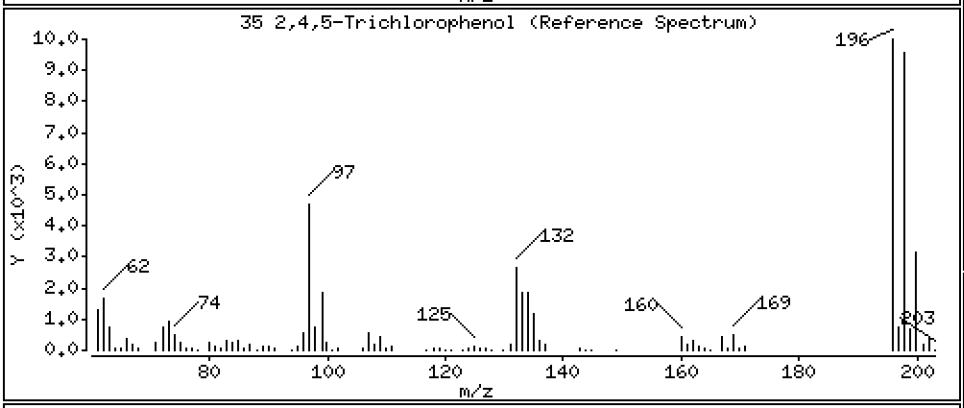
Concentration: 0.7302 ug/mL

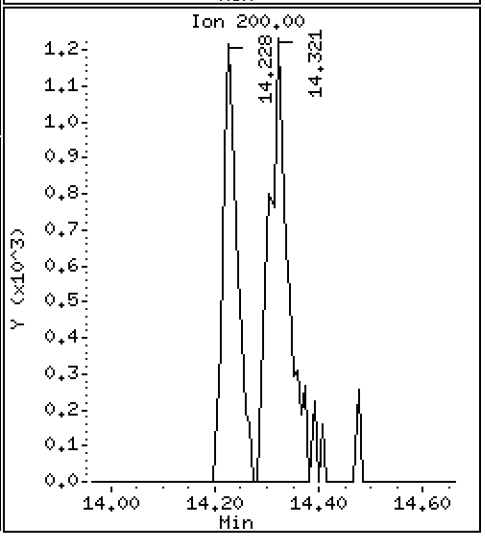


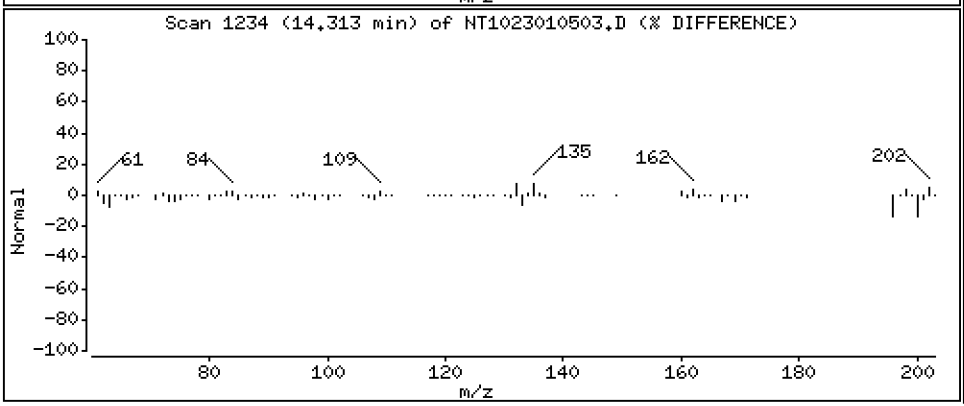












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

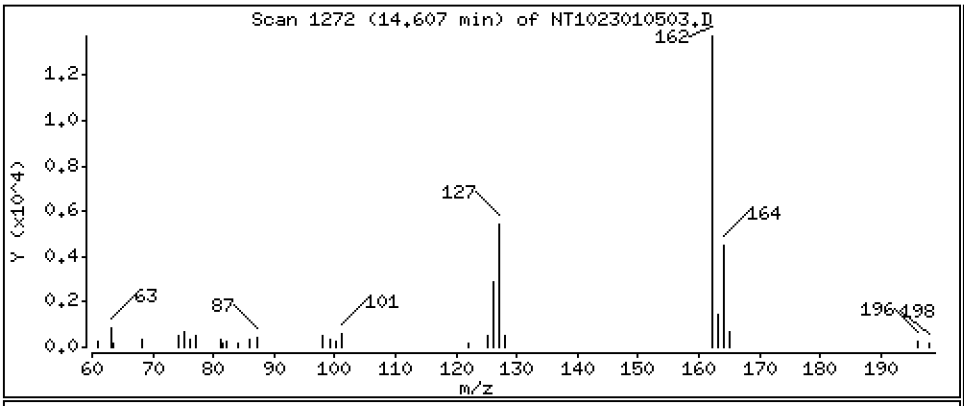
Operator: VTS

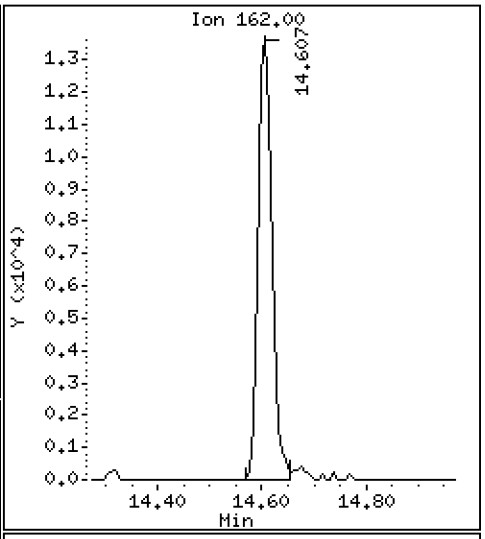
Column phase: ZB-5msi

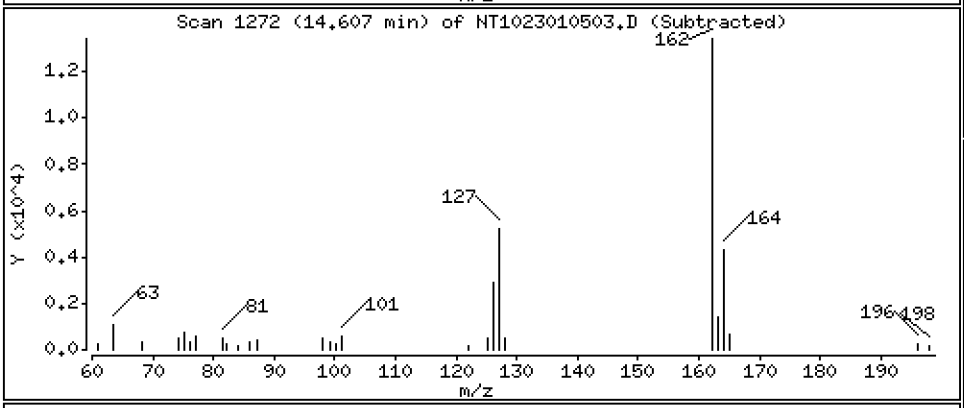
Column diameter: 0.25

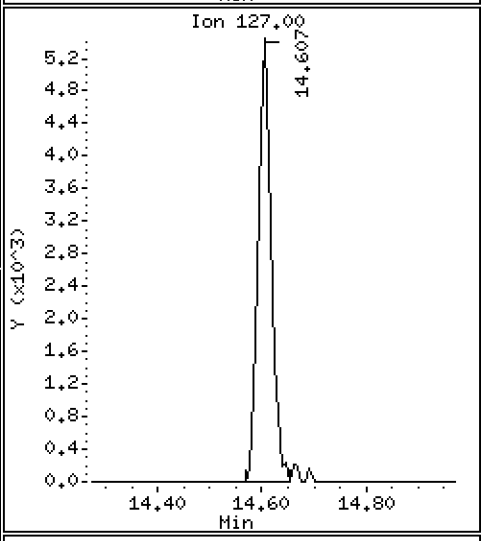
37 2-Chloronaphthalene

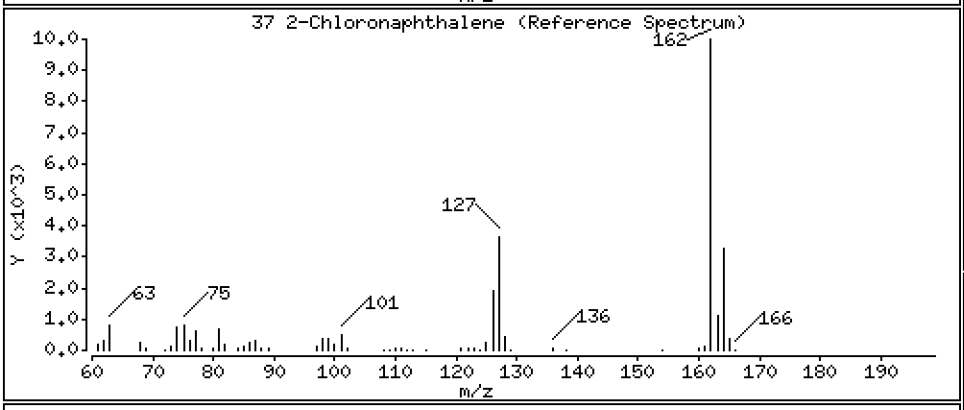
Concentration: 0.4929 ug/mL

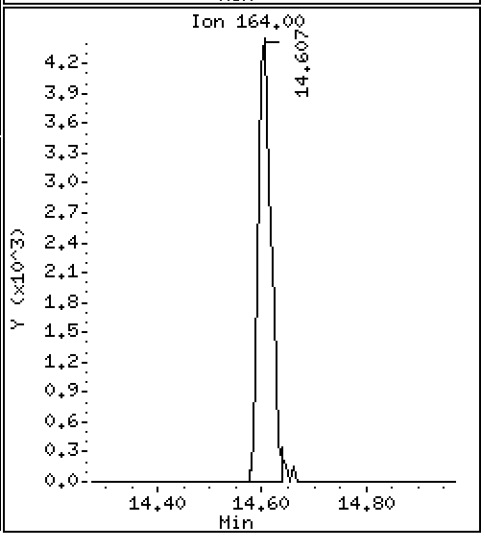


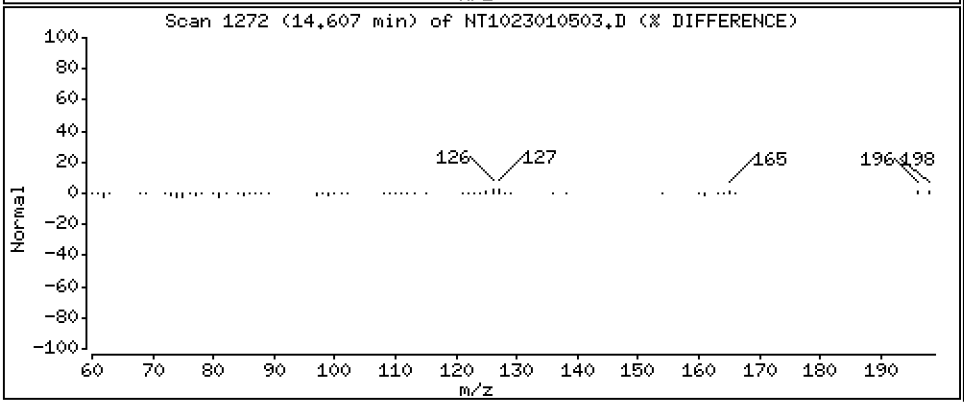












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

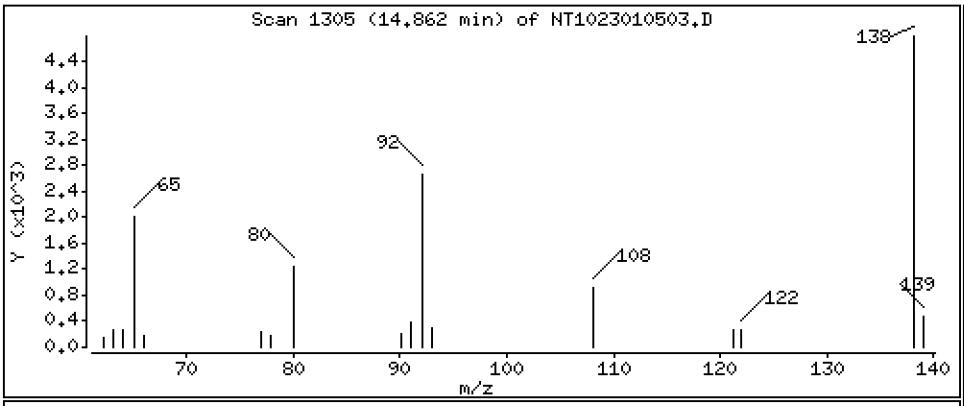
Operator: VTS

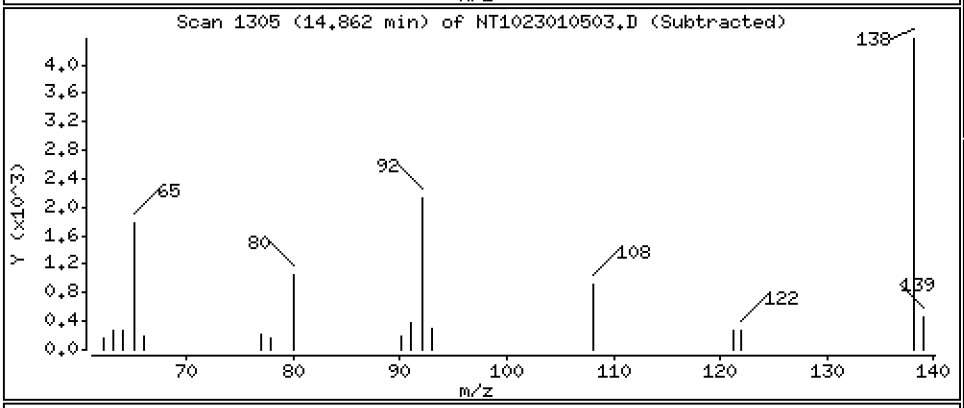
Column phase: ZB-5msi

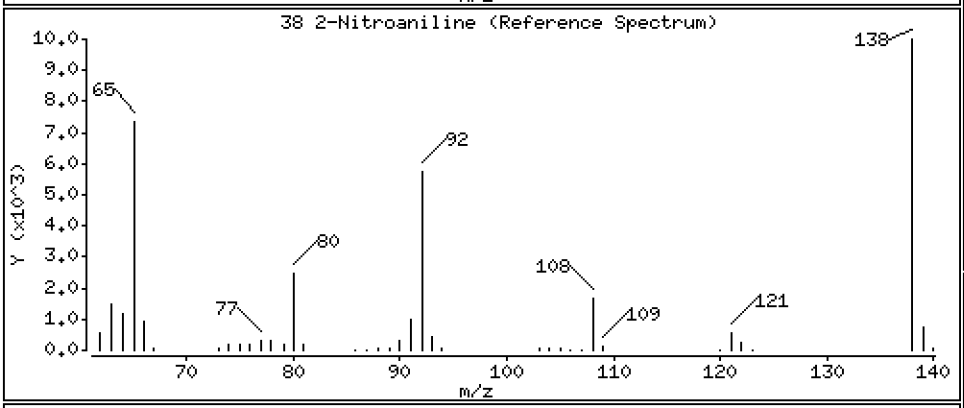
Column diameter: 0.25

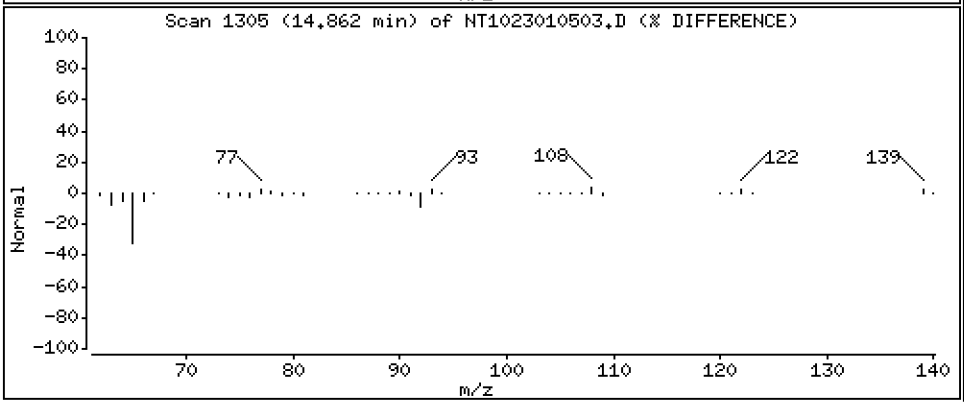
38 2-Nitroaniline

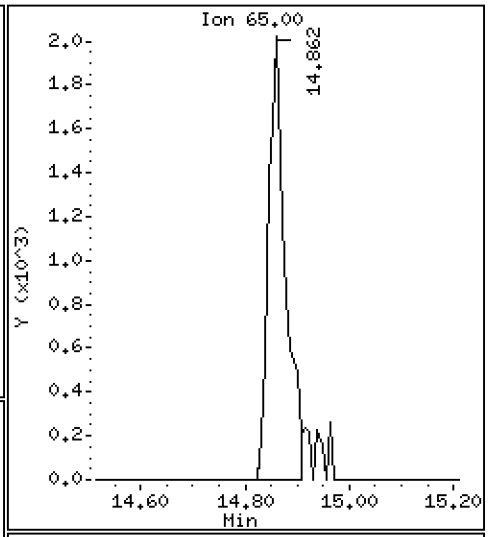
Concentration: 0.6548 ug/mL

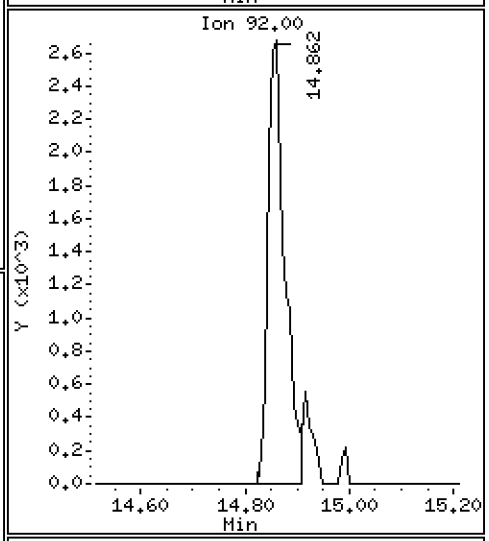


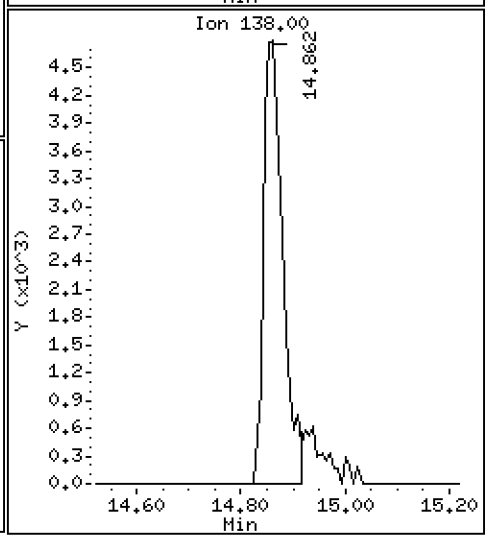












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

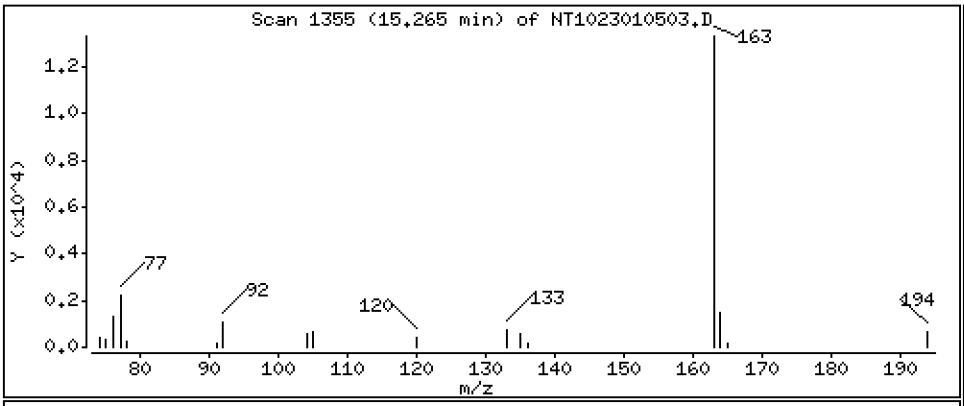
Operator: VTS

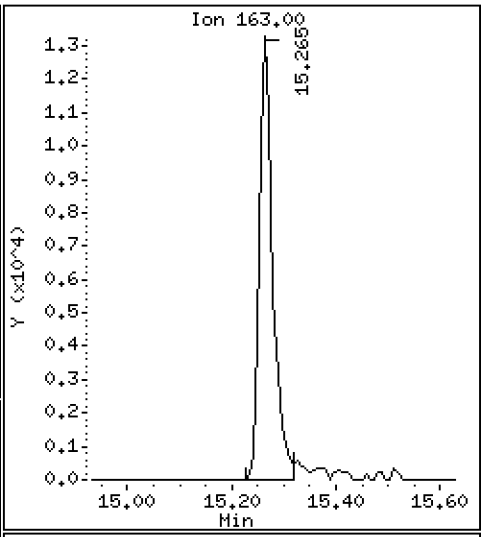
Column phase: ZB-5msi

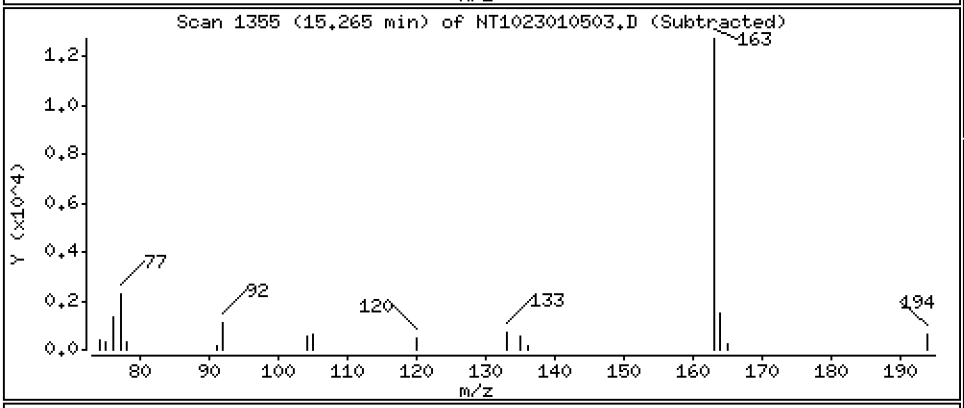
Column diameter: 0.25

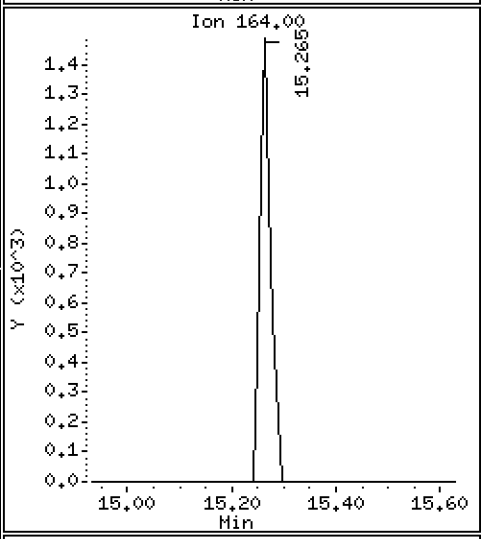
39 Dimethylphthalate

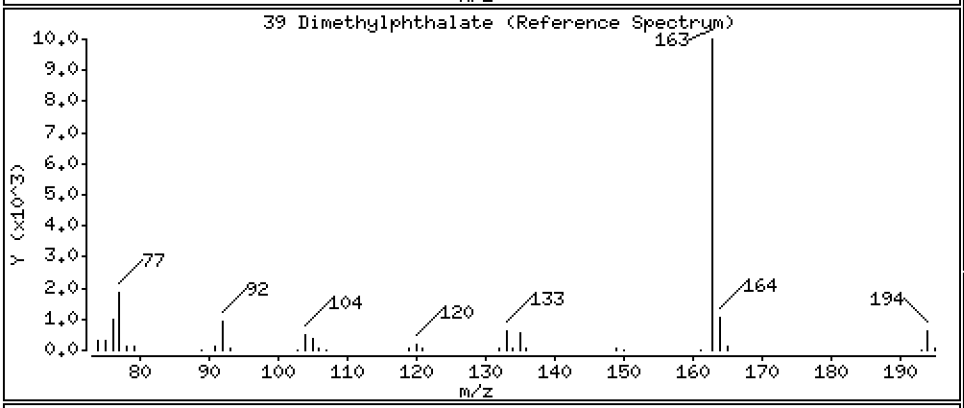
Concentration: 0.5193 ug/mL

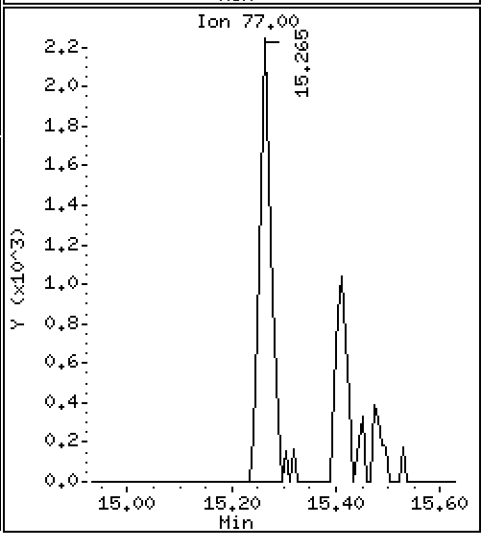


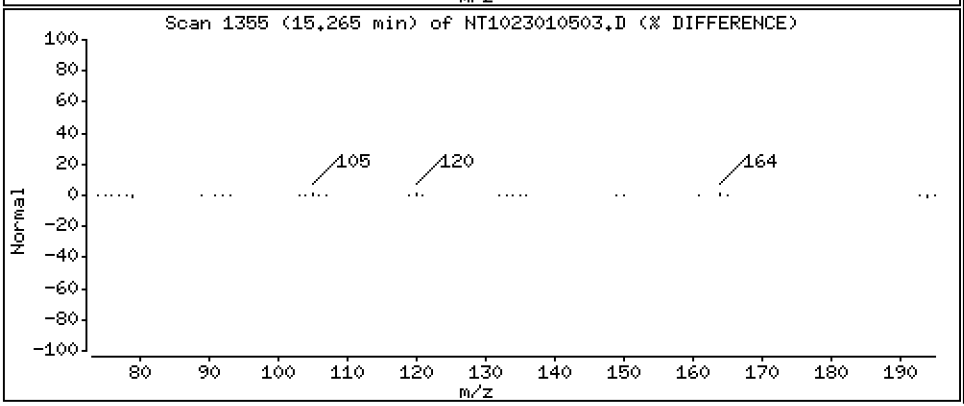












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

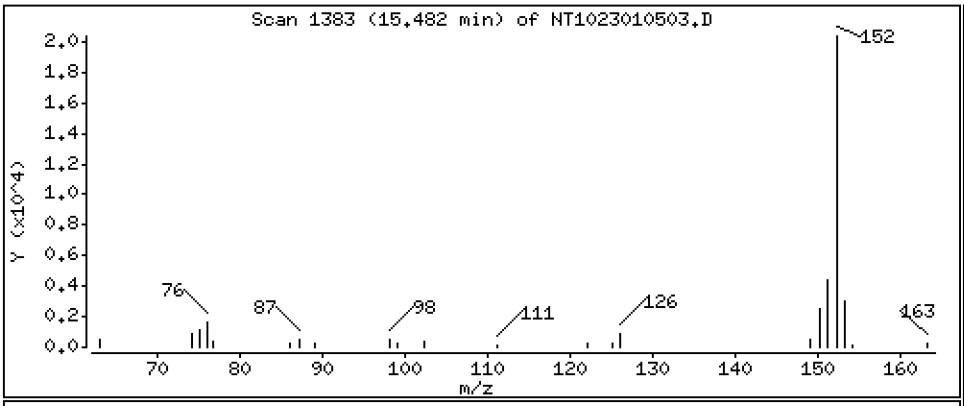
Operator: VTS

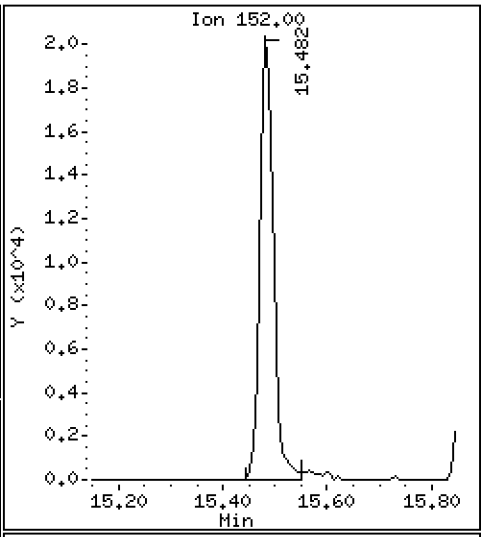
Column phase: ZB-5msi

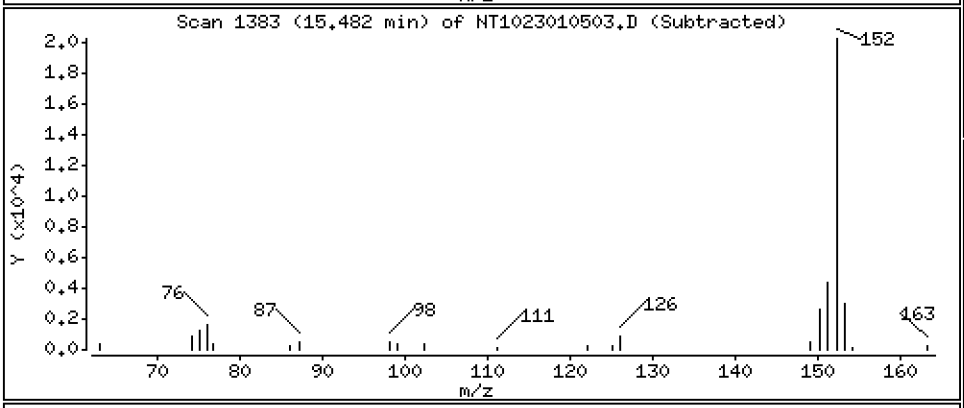
Column diameter: 0.25

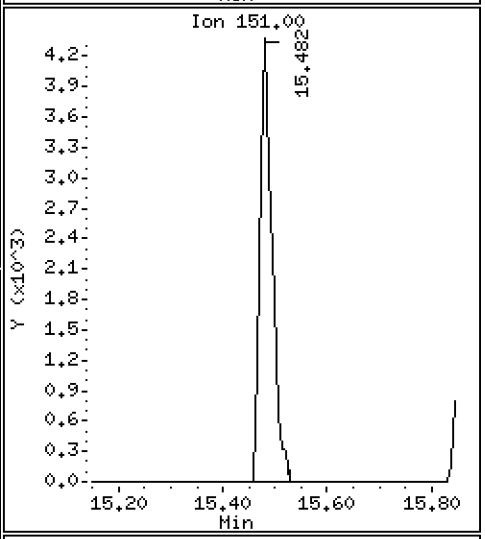
40 Acenaphthylene

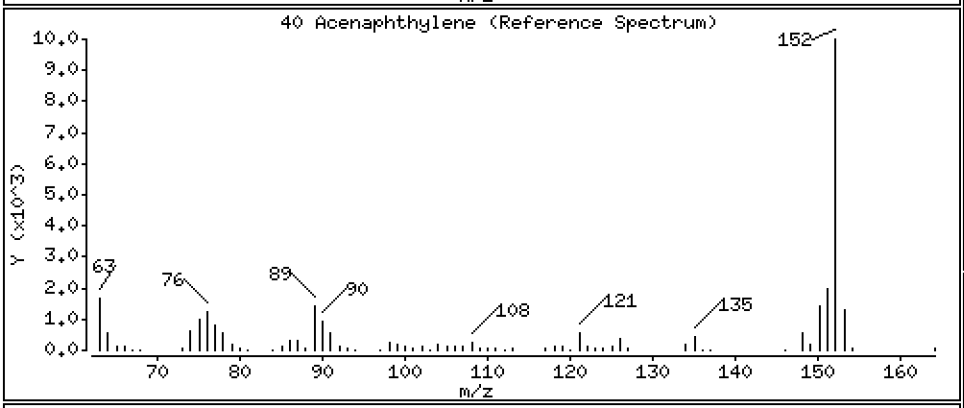
Concentration: 0.4892 ug/mL

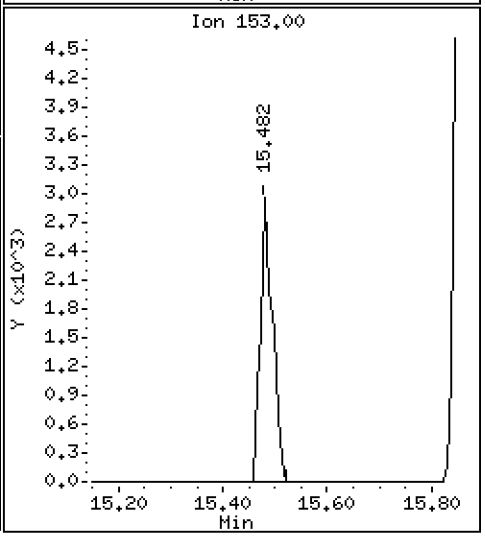


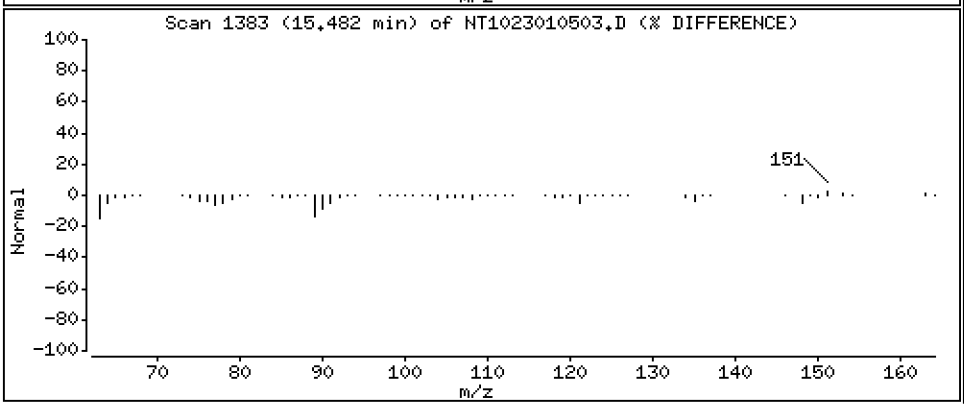












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

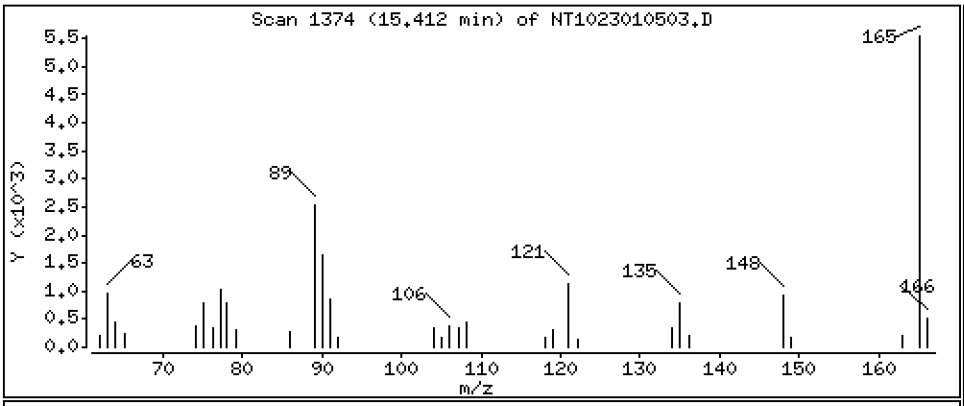
Operator: VTS

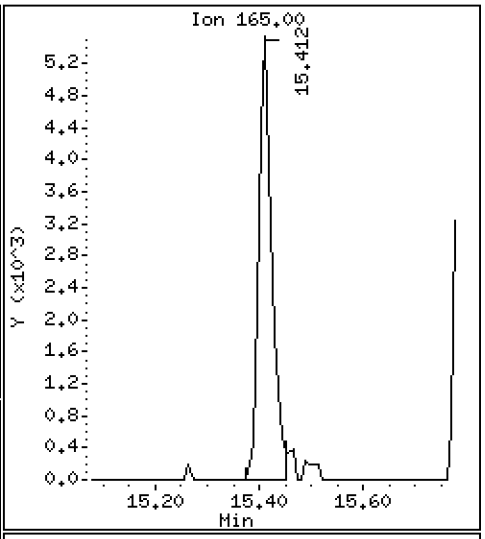
Column phase: ZB-5msi

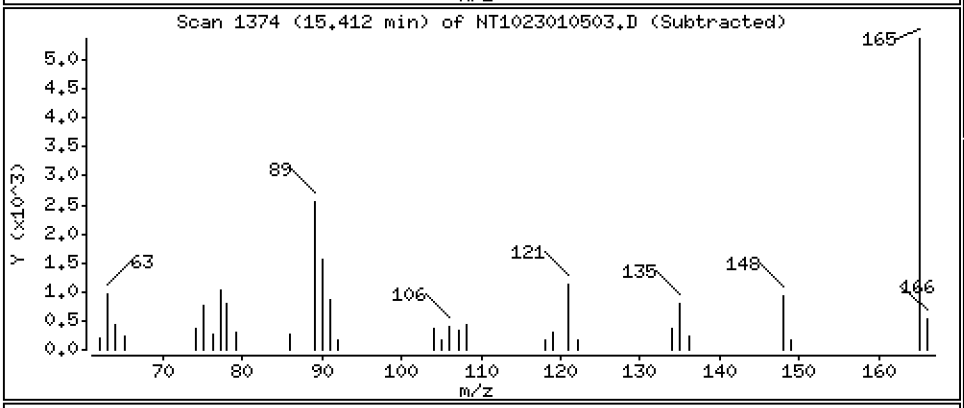
Column diameter: 0.25

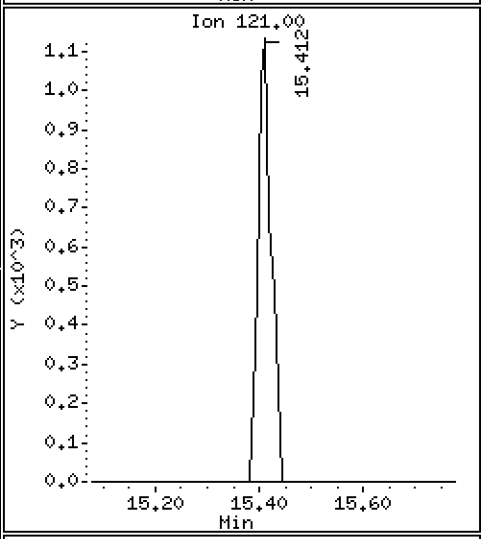
41 2,6-Dinitrotoluene

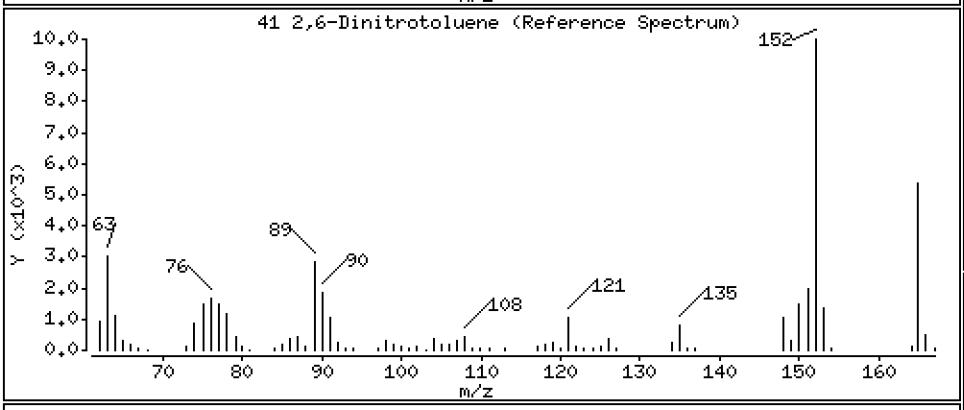
Concentration: 0.9041 ug/mL

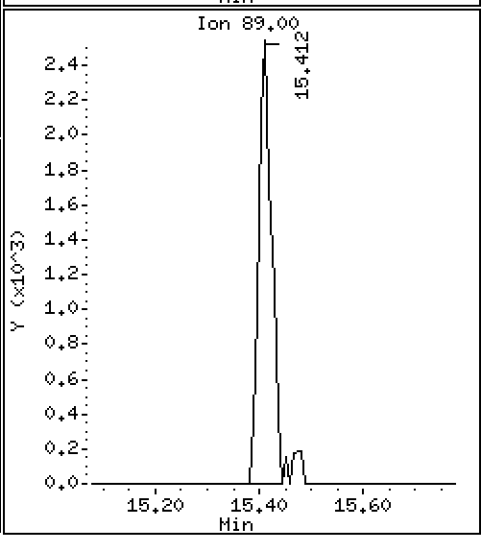


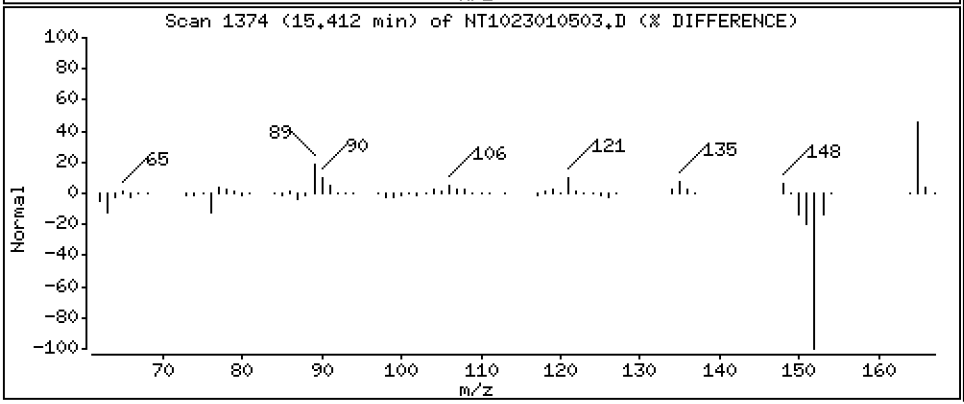












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

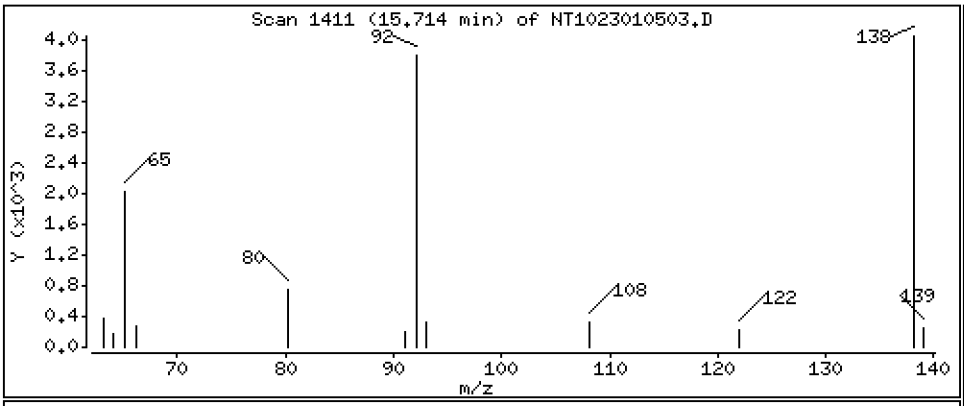
Operator: VTS

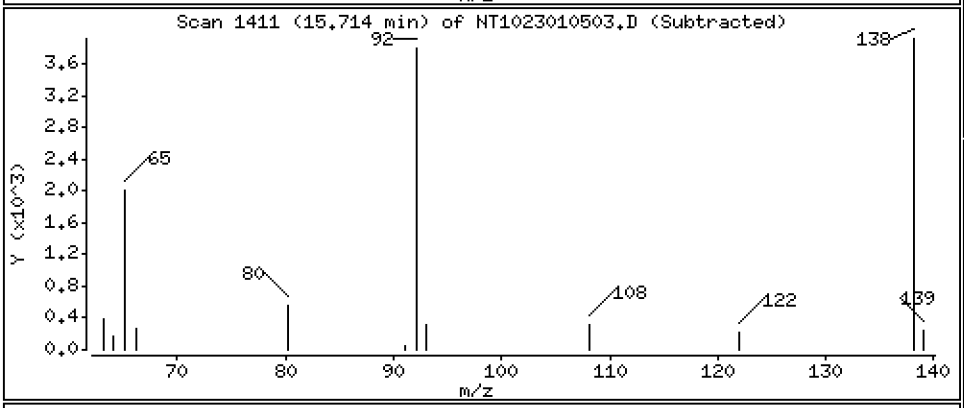
Column phase: ZB-5msi

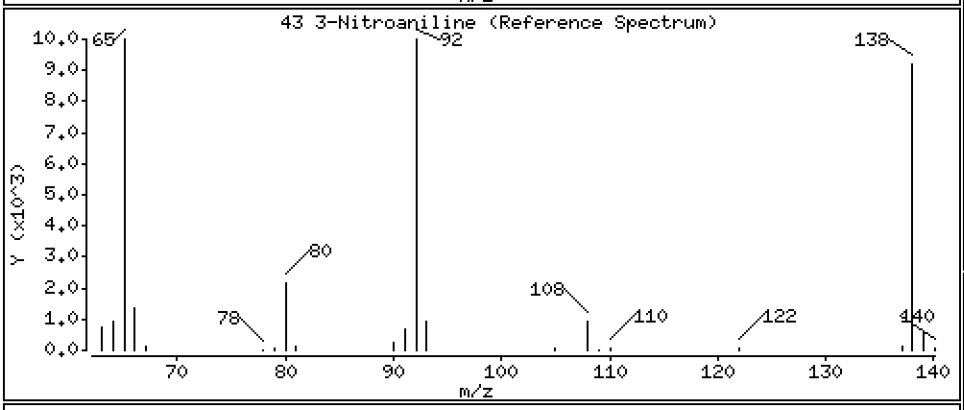
Column diameter: 0.25

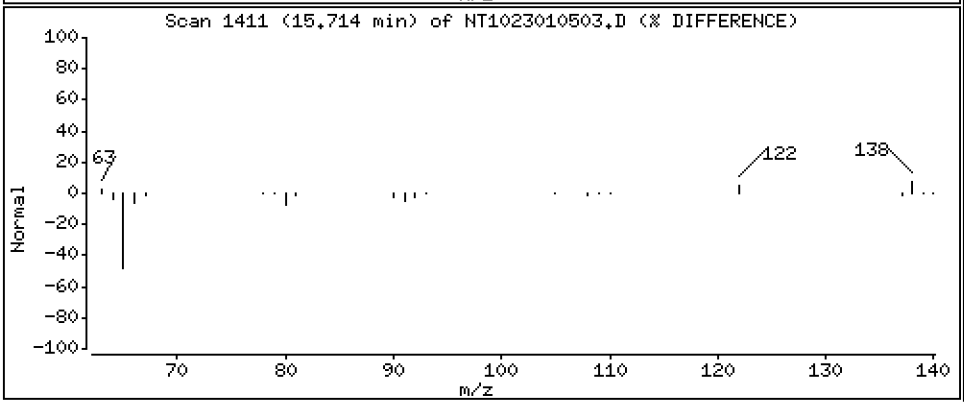
43 3-Nitroaniline

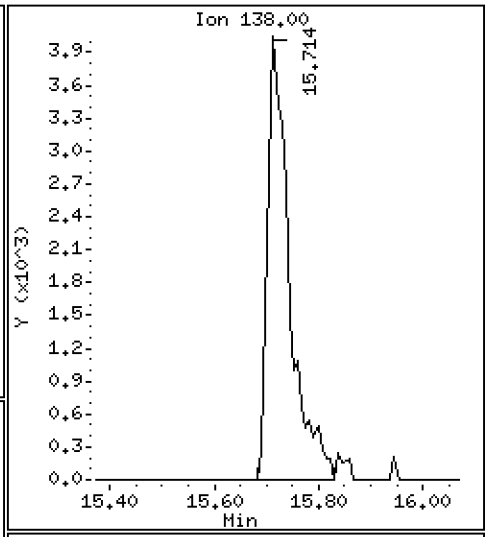
Concentration: 1.449 ug/mL

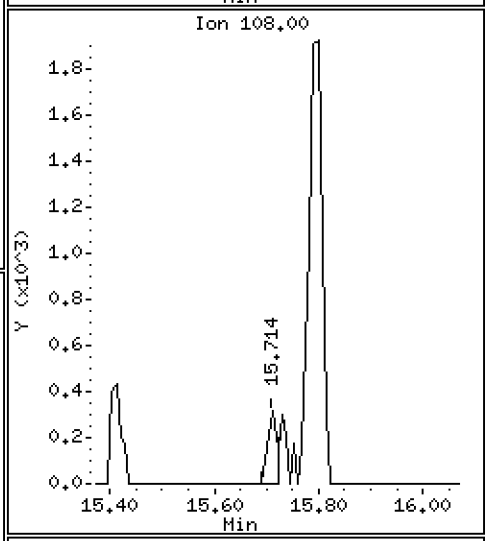


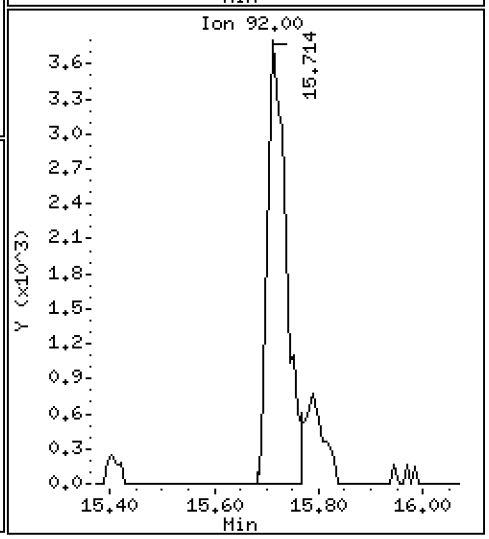












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

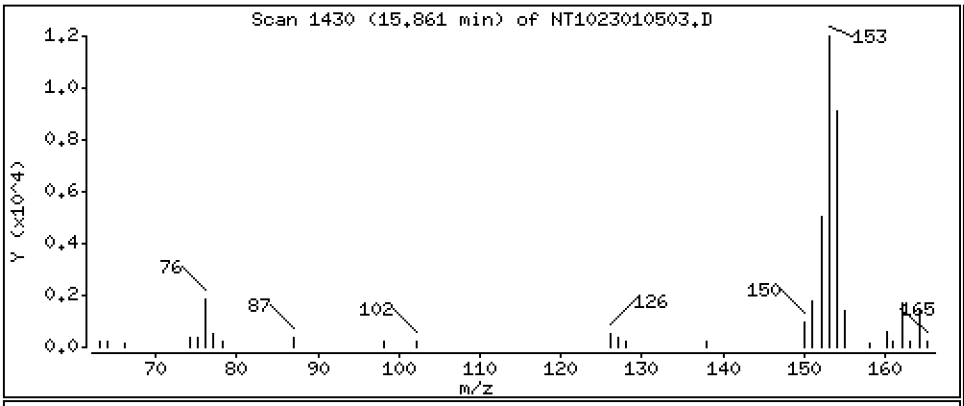
Operator: VTS

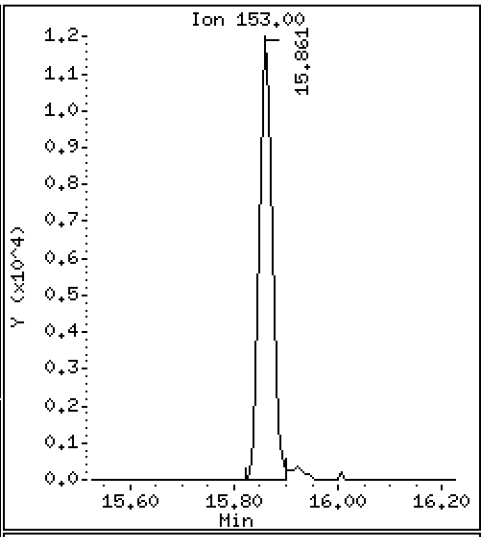
Column phase: ZB-5msi

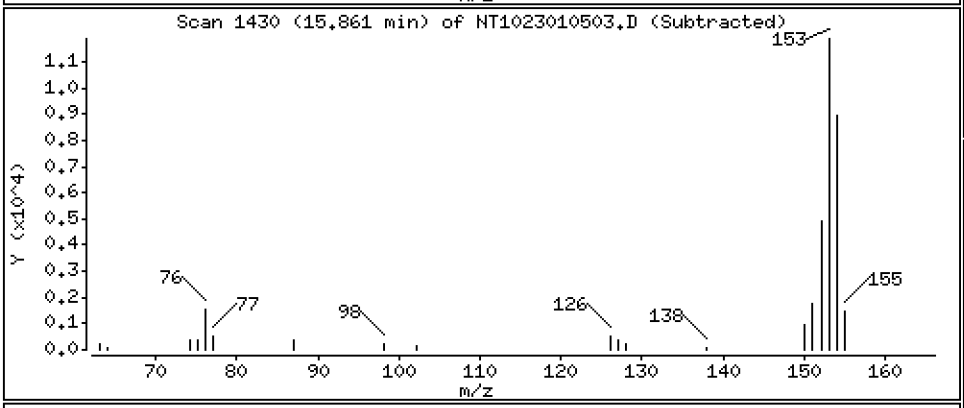
Column diameter: 0.25

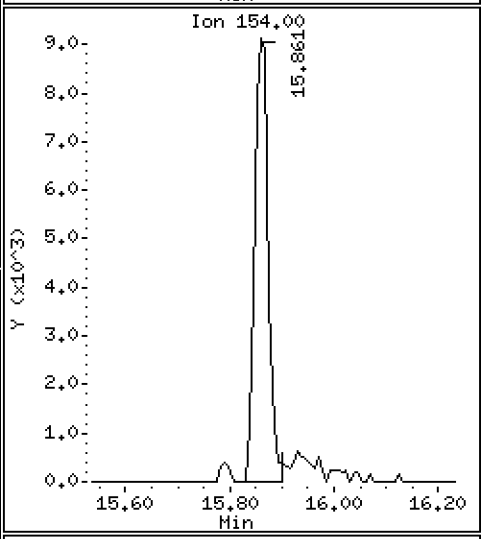
44 Acenaphthene

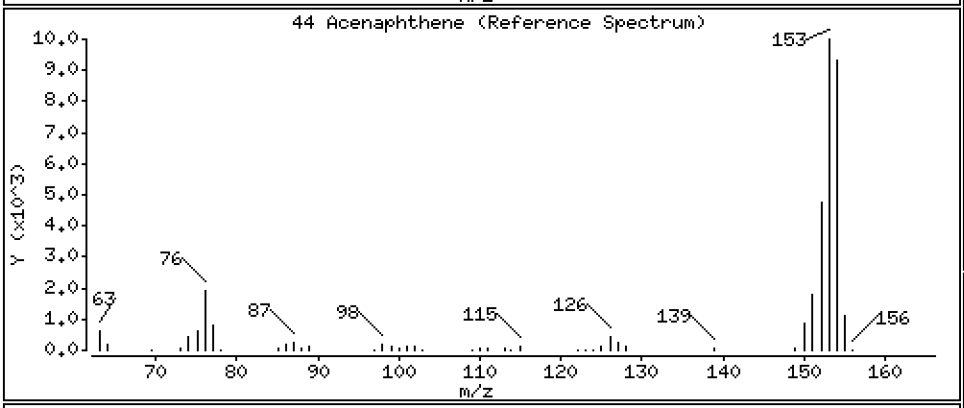
Concentration: 0.4974 ug/mL

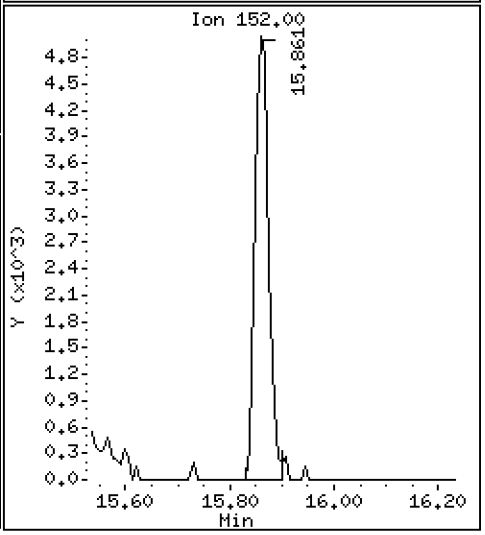


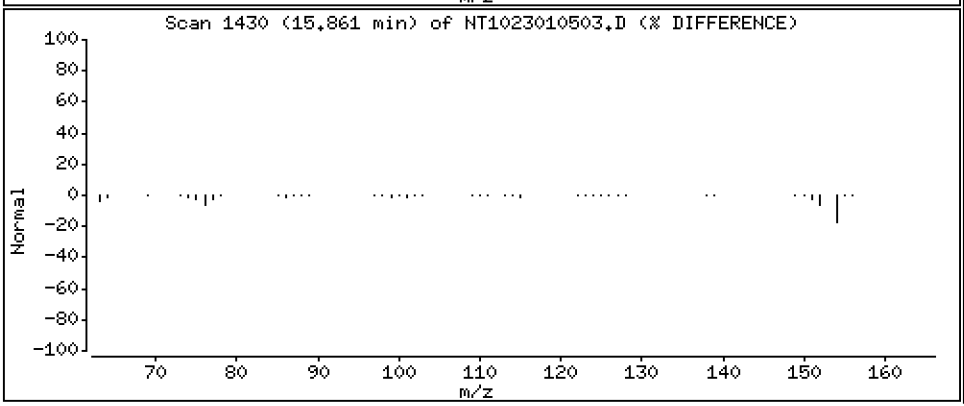












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

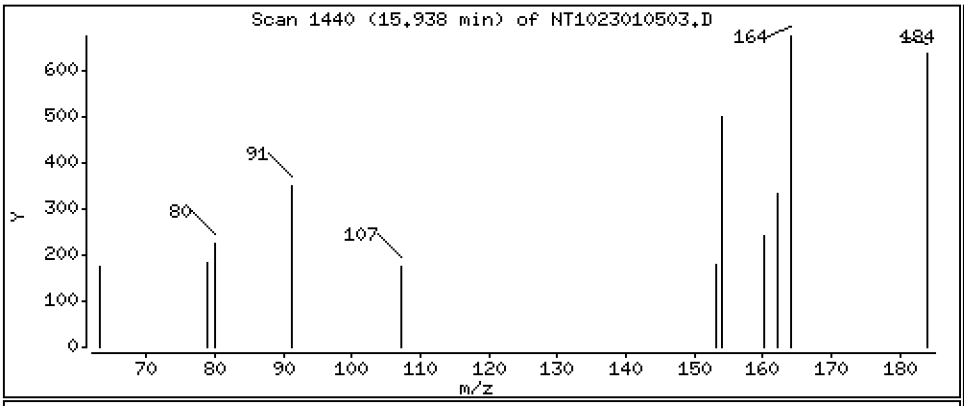
Operator: VTS

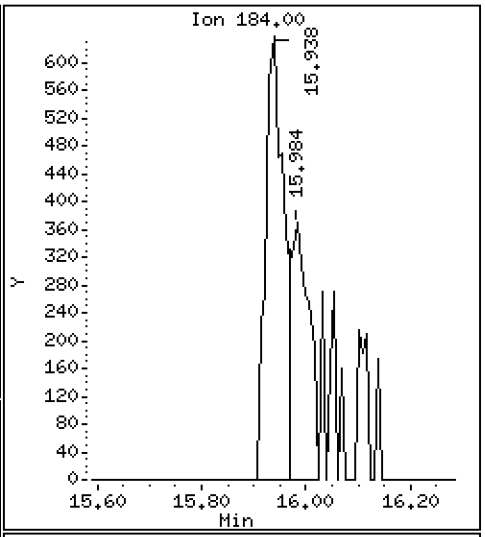
Column phase: ZB-5msi

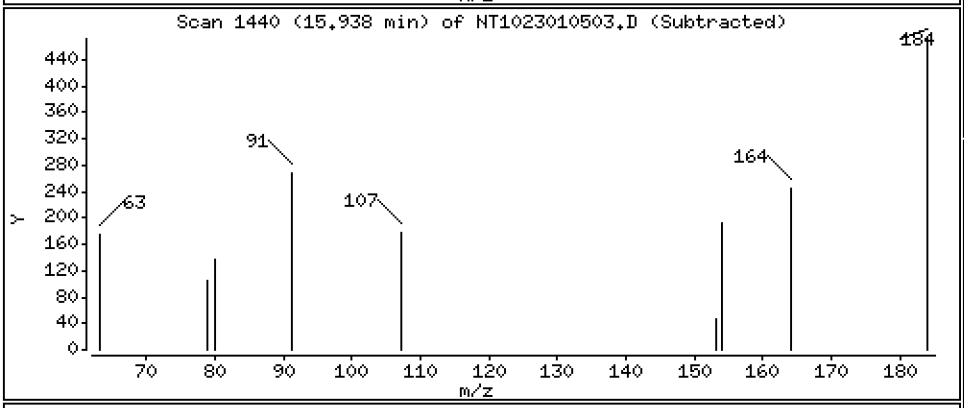
Column diameter: 0.25

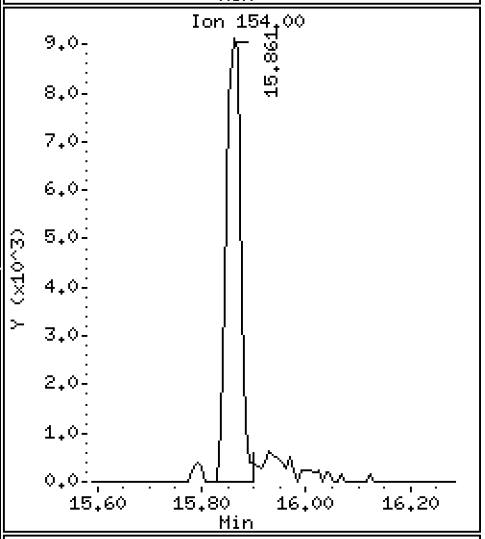
45 2,4-Dinitrophenol

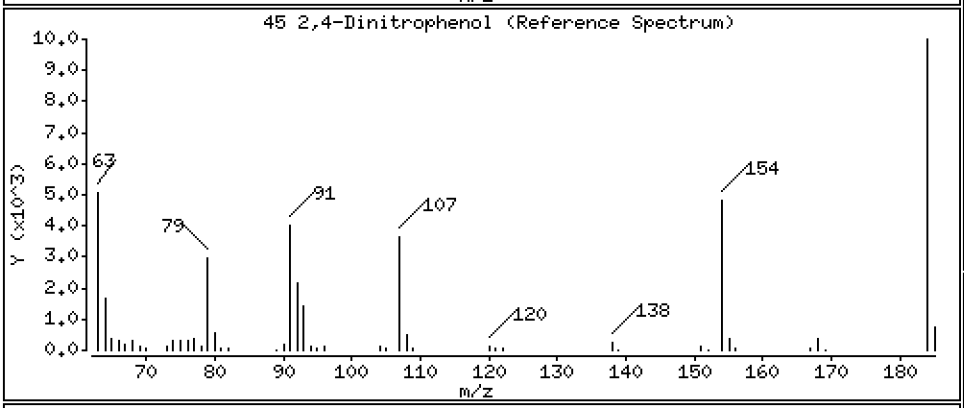
Concentration: 0.2212 ug/mL

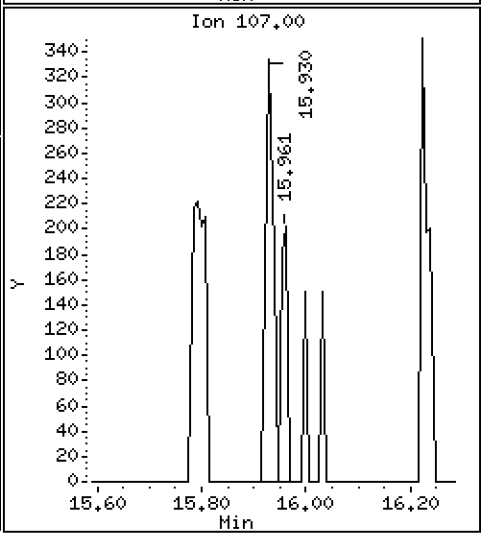


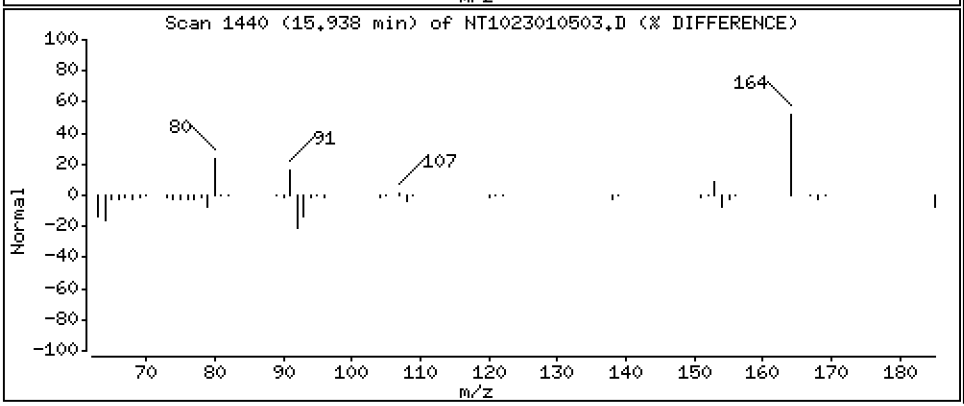












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

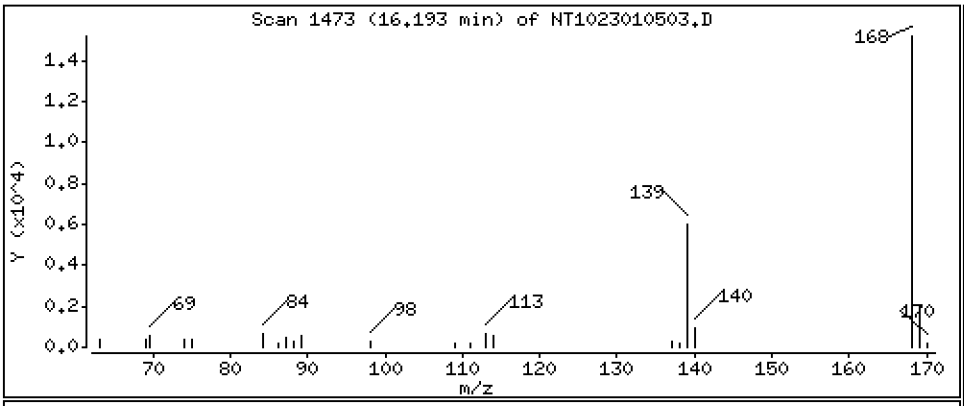
Operator: VTS

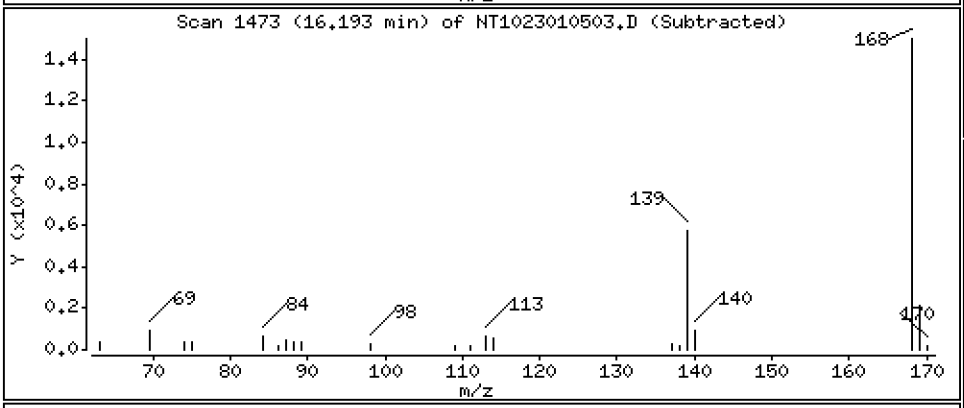
Column phase: ZB-5msi

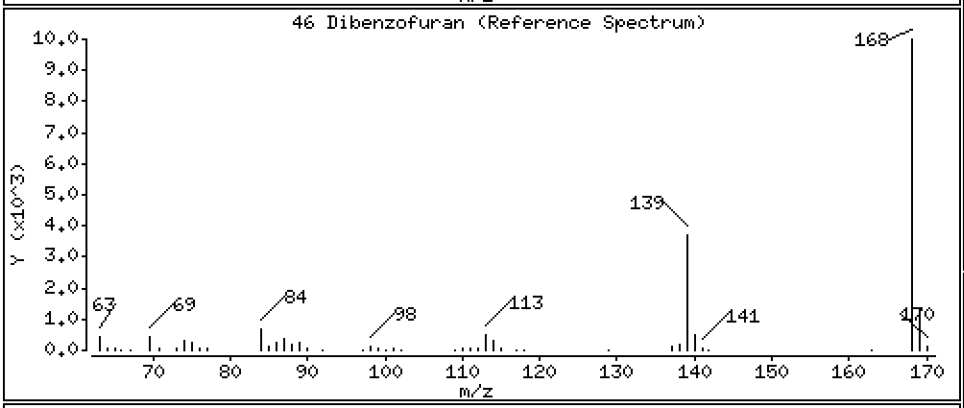
Column diameter: 0.25

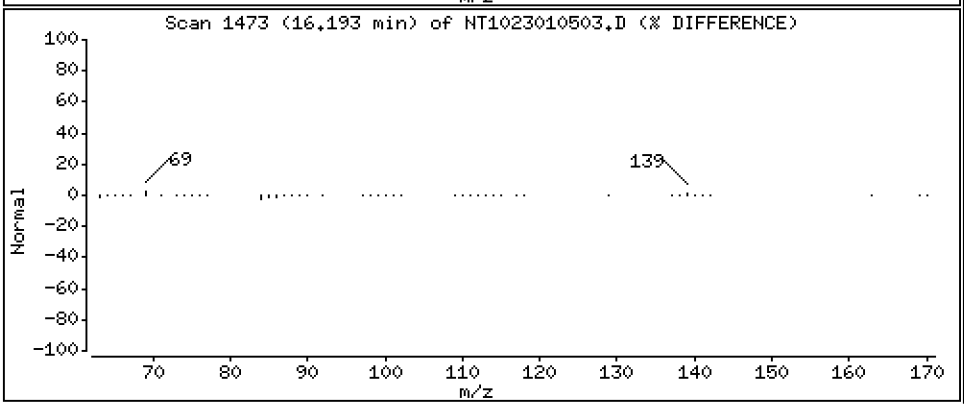
46 Dibenzofuran

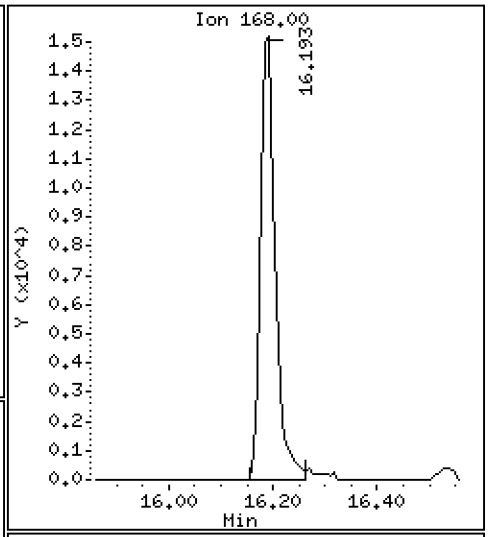
Concentration: 0.4870 ug/mL

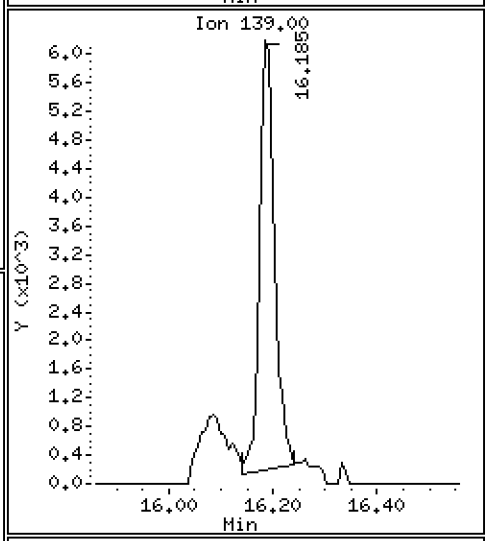


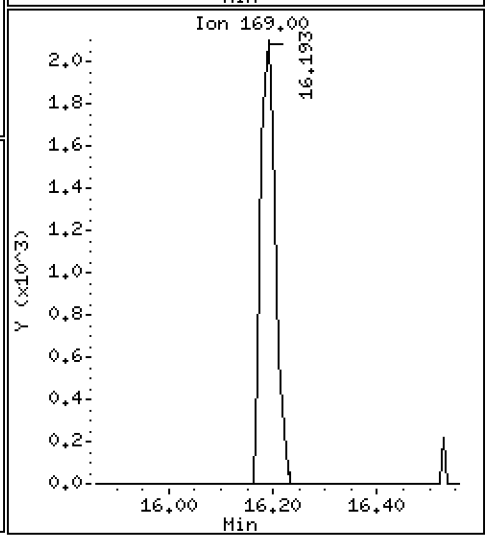












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

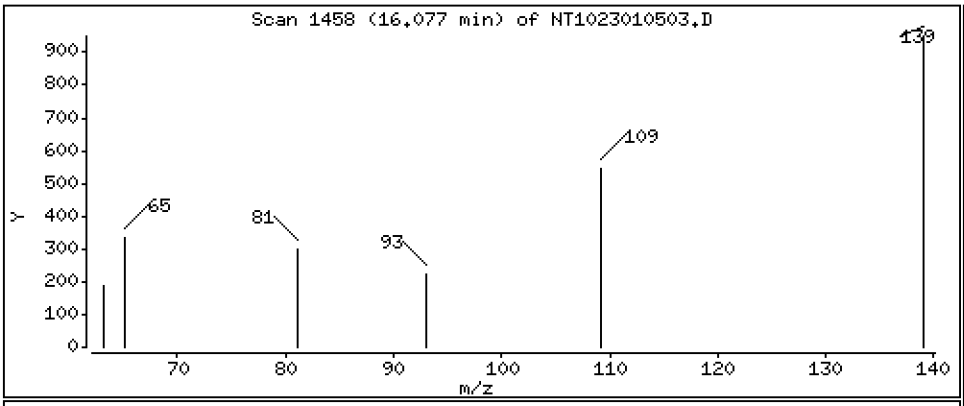
Operator: VTS

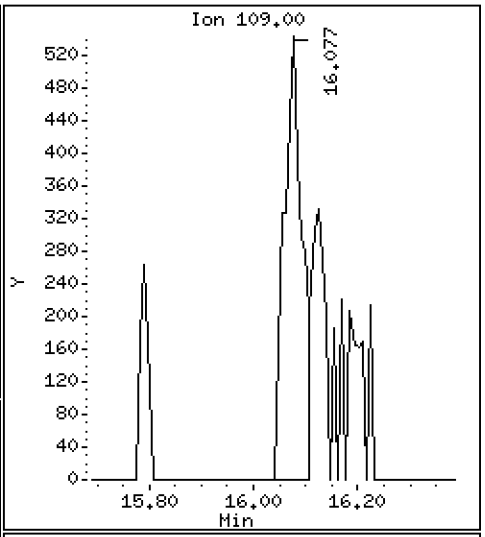
Column phase: ZB-5msi

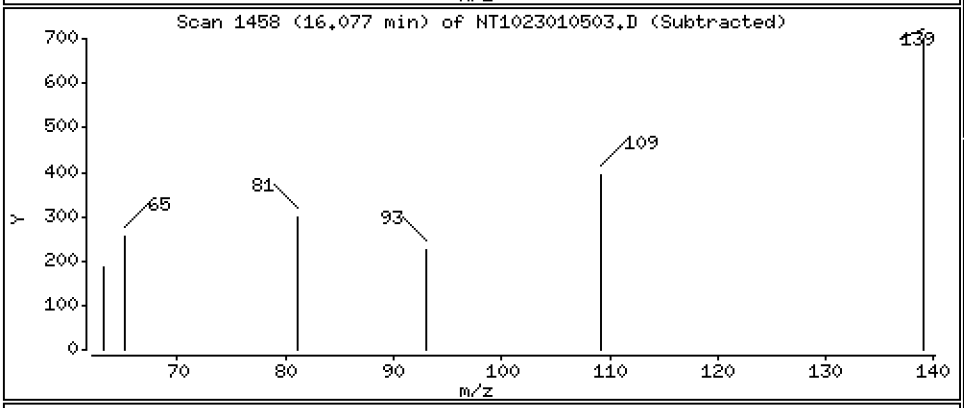
Column diameter: 0.25

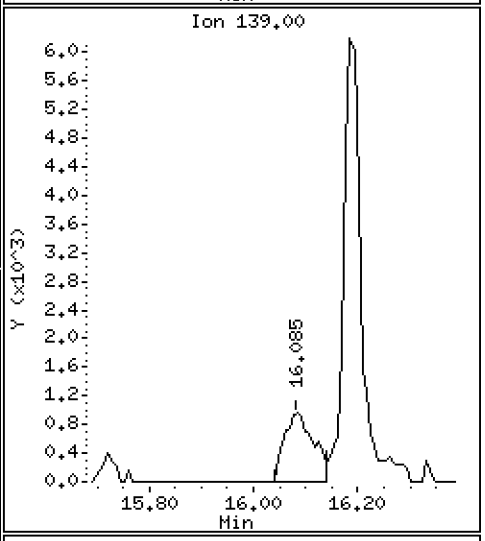
47 4-Nitrophenol

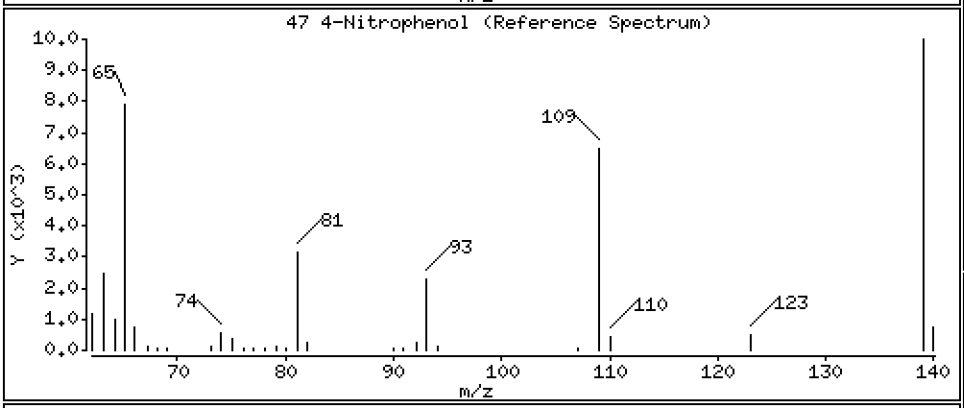
Concentration: 0.2524 ug/mL

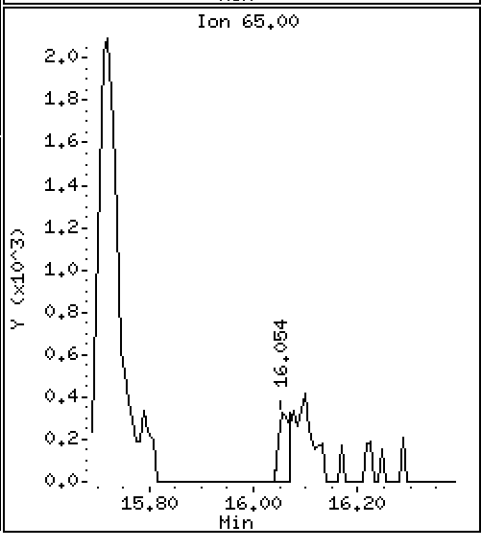


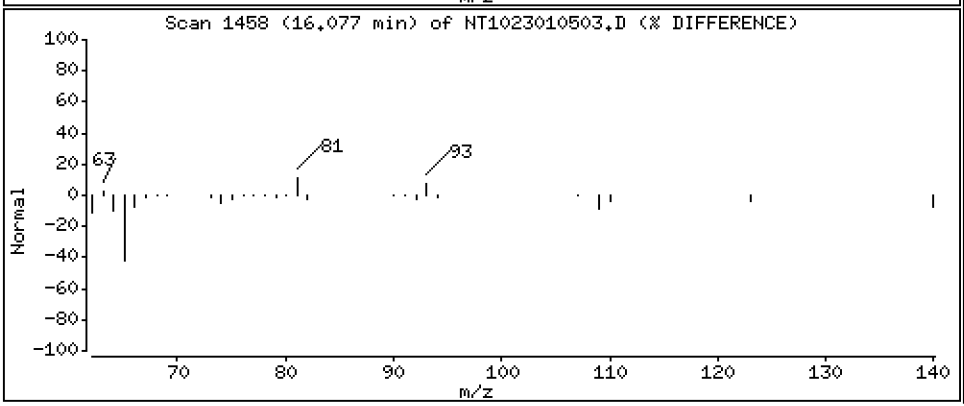












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

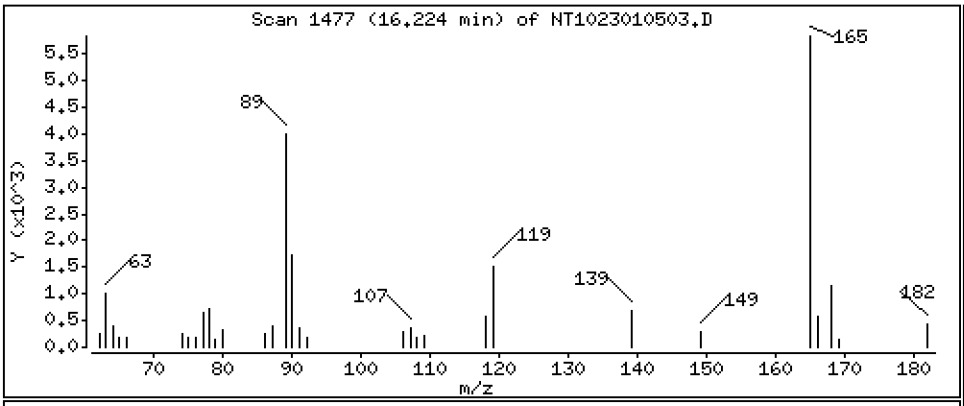
Operator: VTS

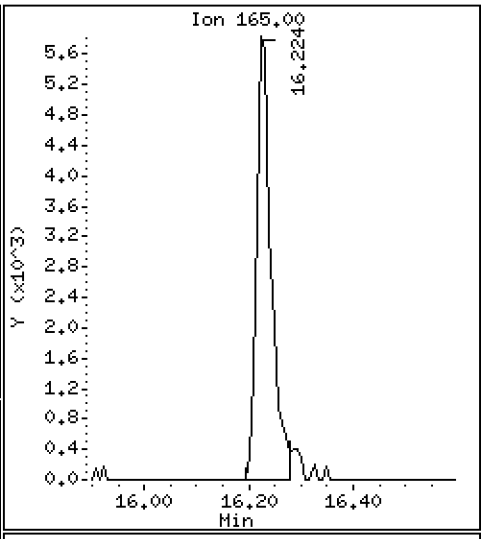
Column phase: ZB-5msi

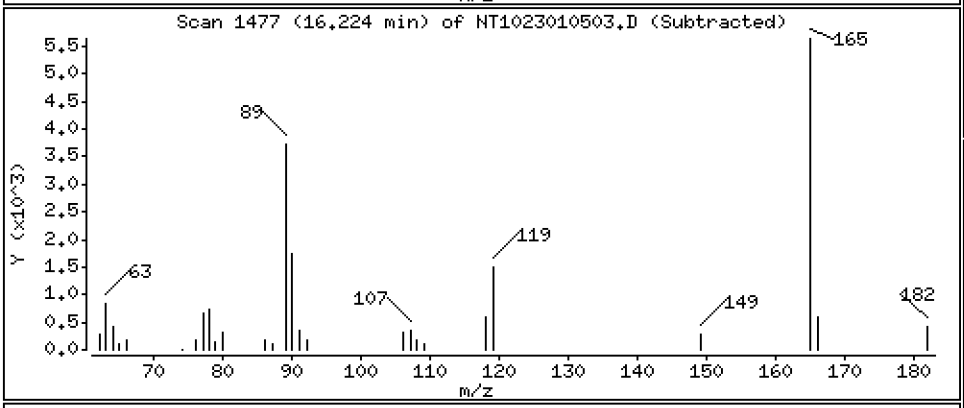
Column diameter: 0.25

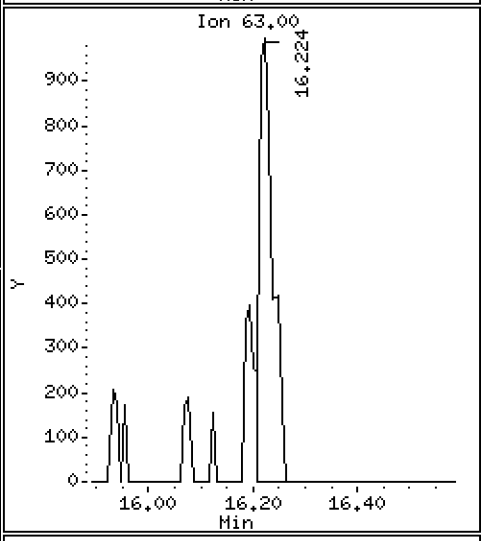
48 2,4-Dinitrotoluene

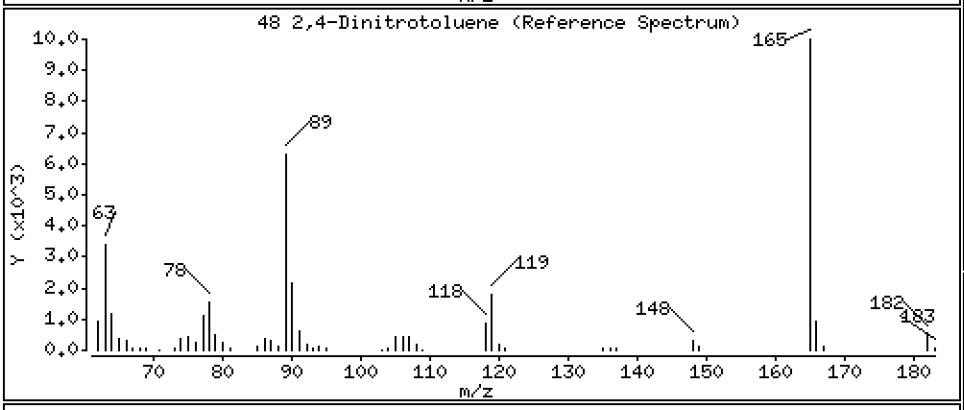
Concentration: 0.8064 ug/mL

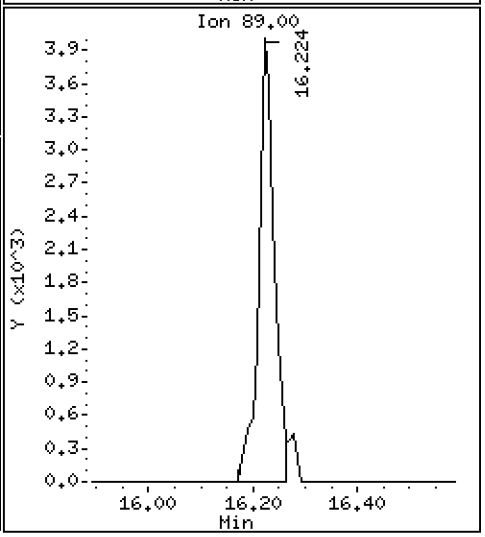


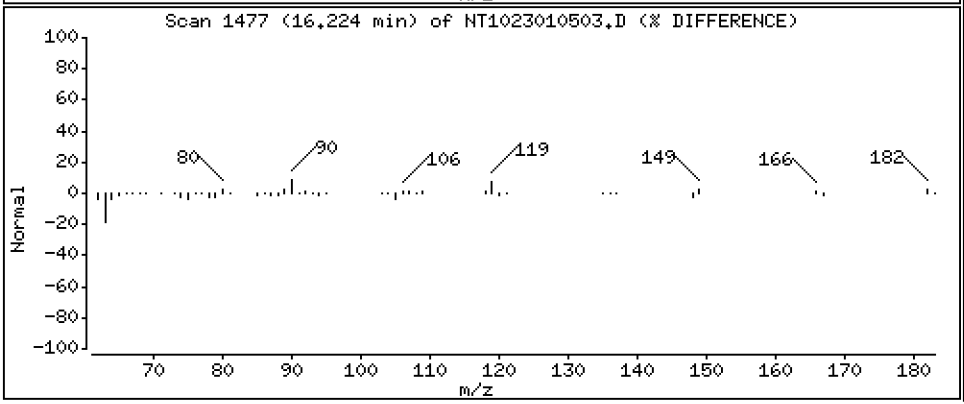












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

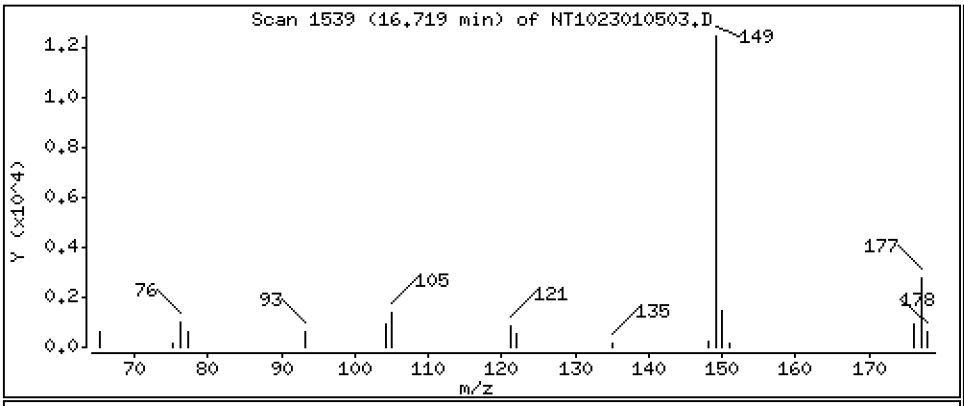
Operator: VTS

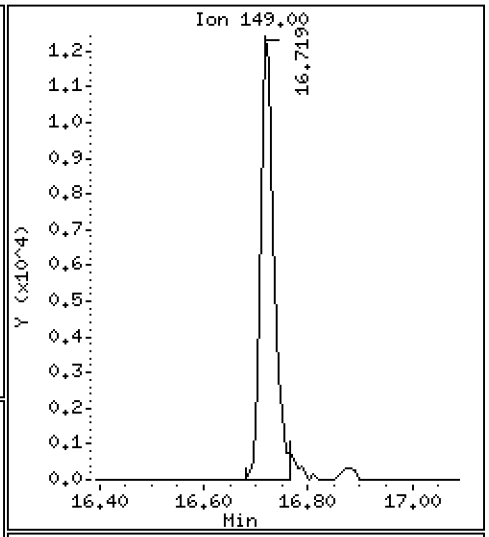
Column phase: ZB-5msi

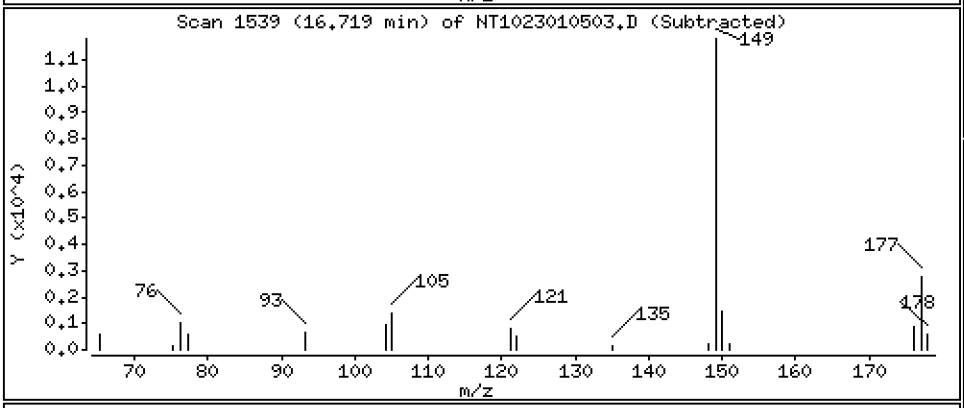
Column diameter: 0.25

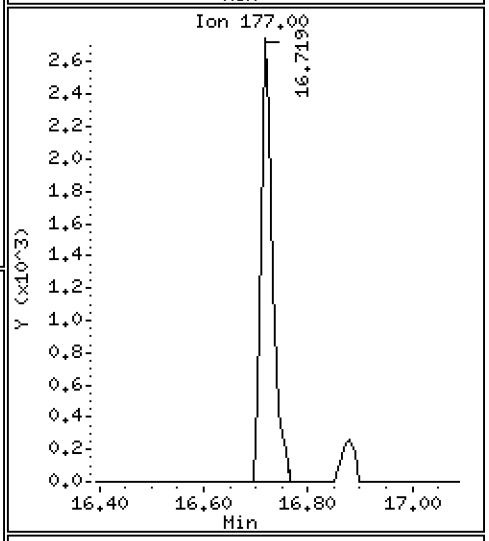
50 Diethylphthalate

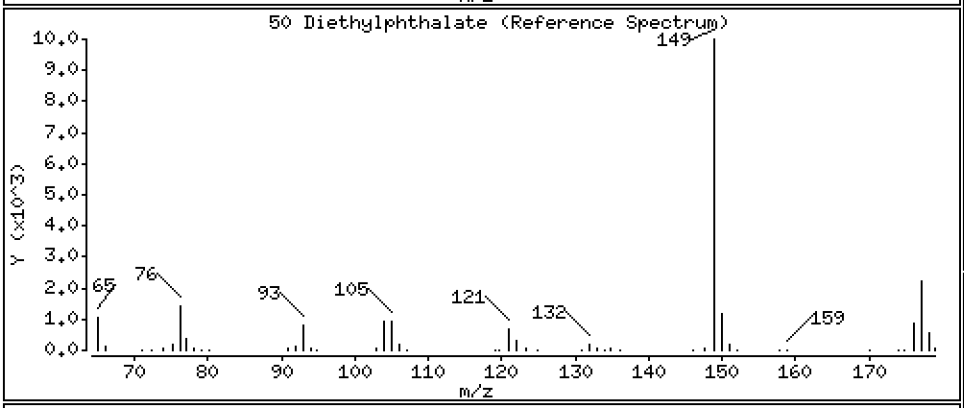
Concentration: 0.4600 ug/mL

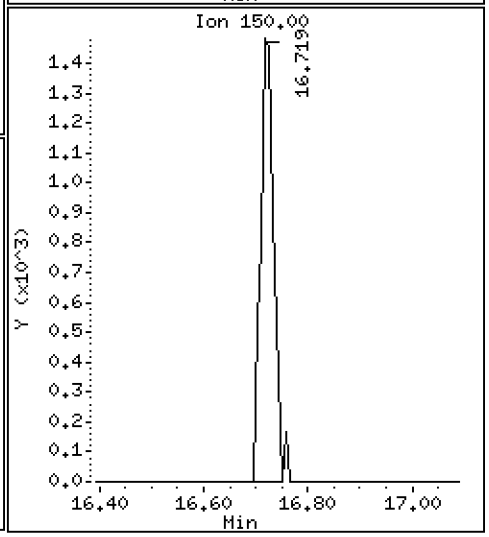


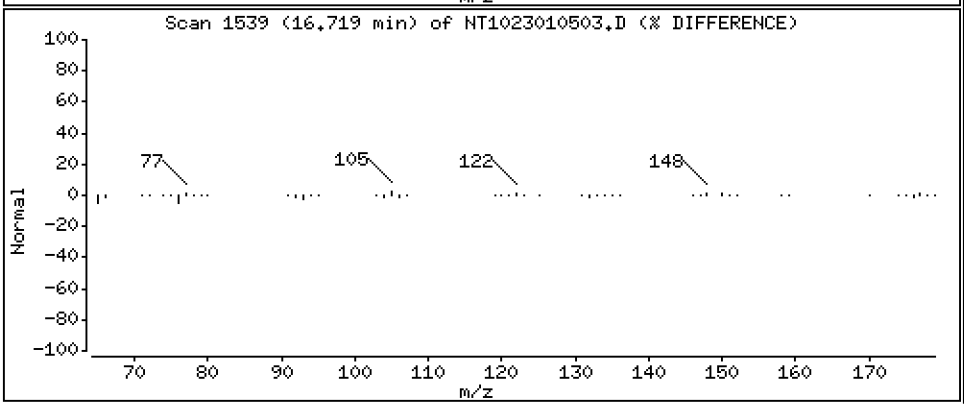












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

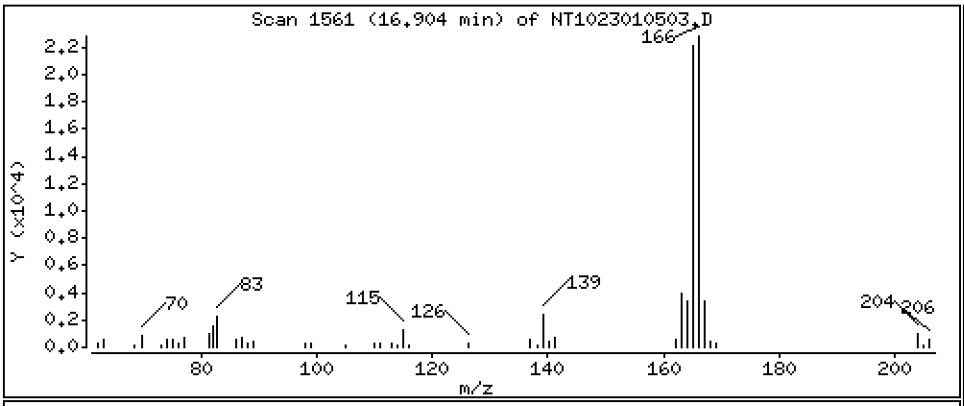
Operator: VTS

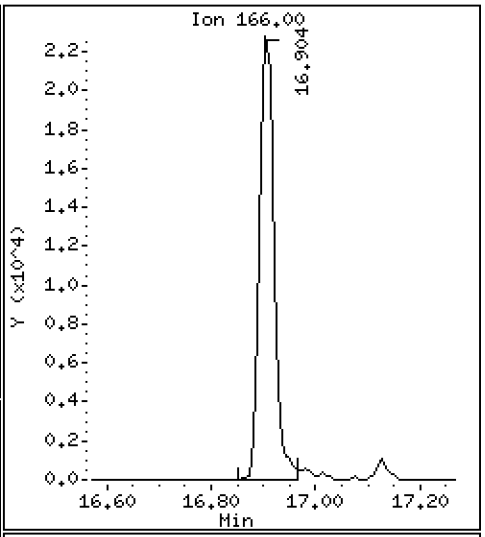
Column phase: ZB-5msi

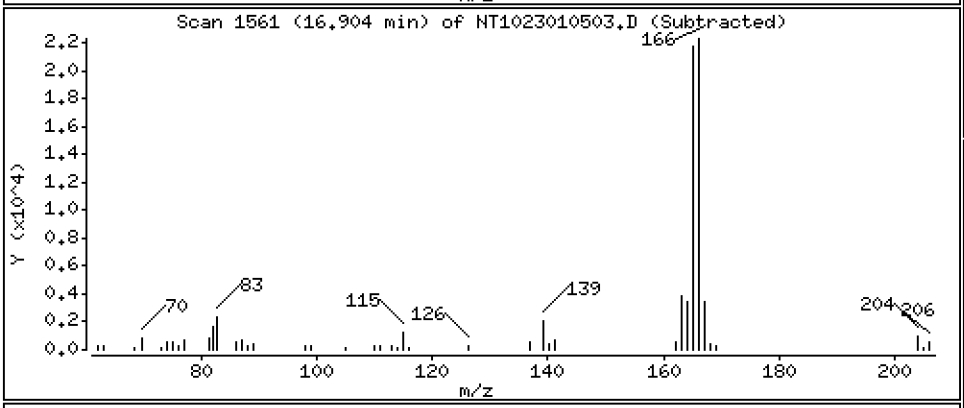
Column diameter: 0.25

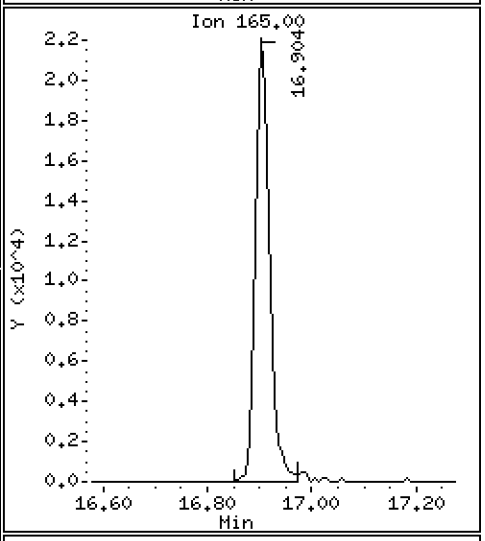
49 Fluorene

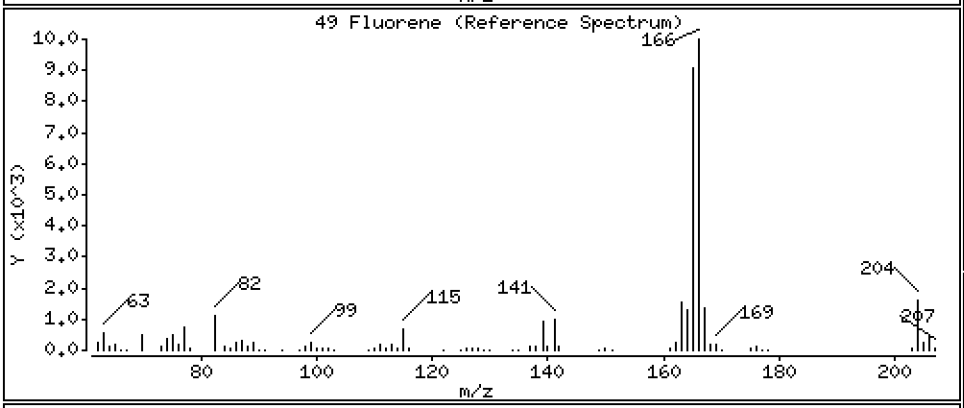
Concentration: 0.5409 ug/mL

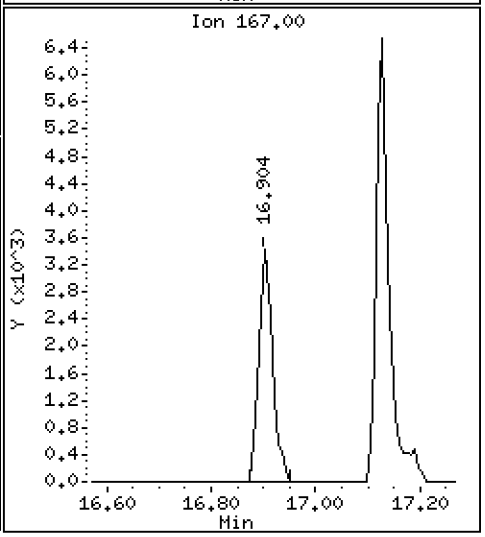


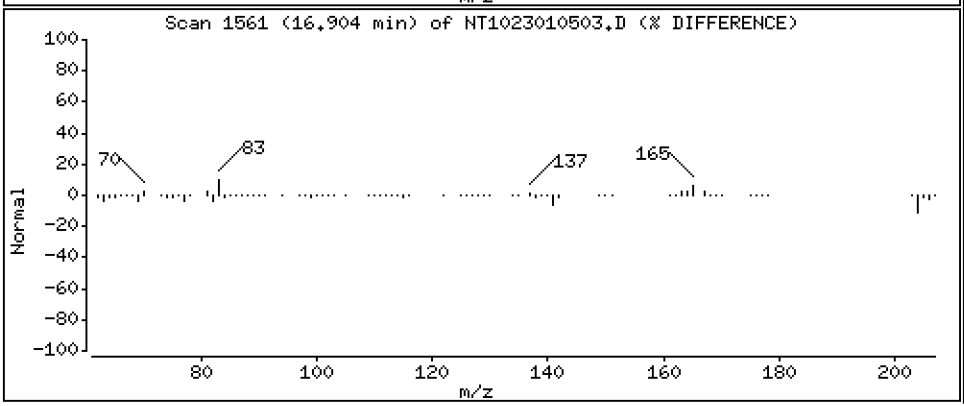












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

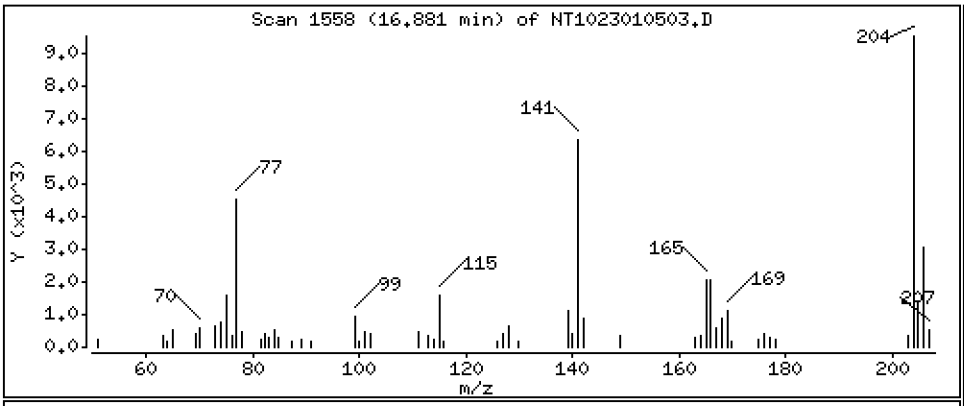
Operator: VTS

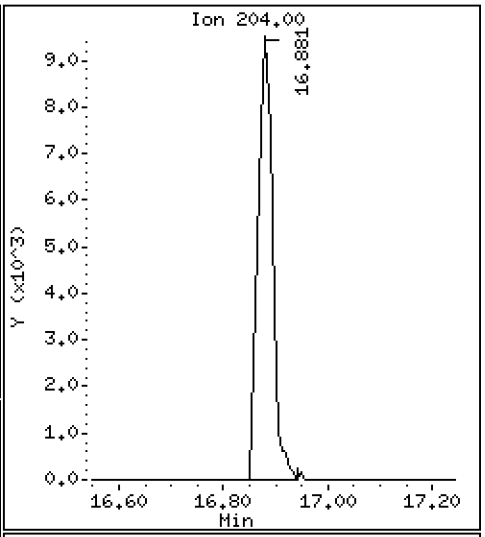
Column phase: ZB-5msi

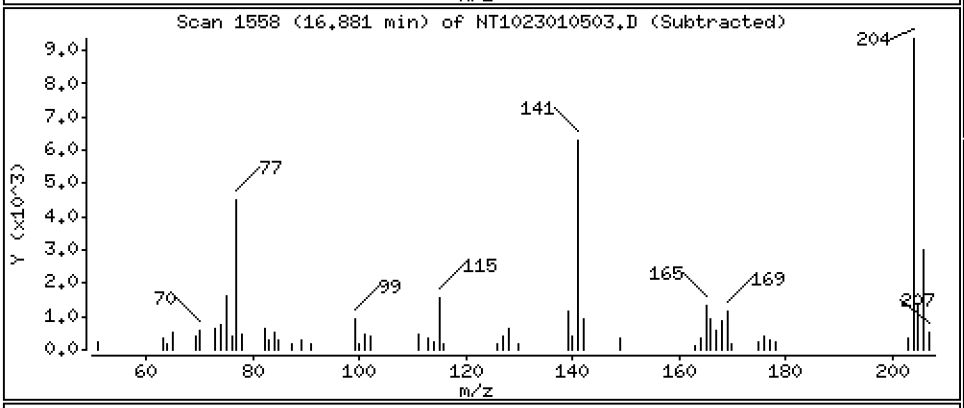
Column diameter: 0.25

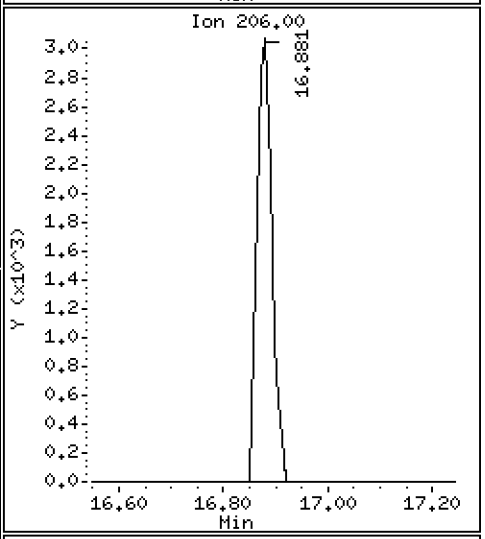
51 4-Chlorophenyl-phenylether

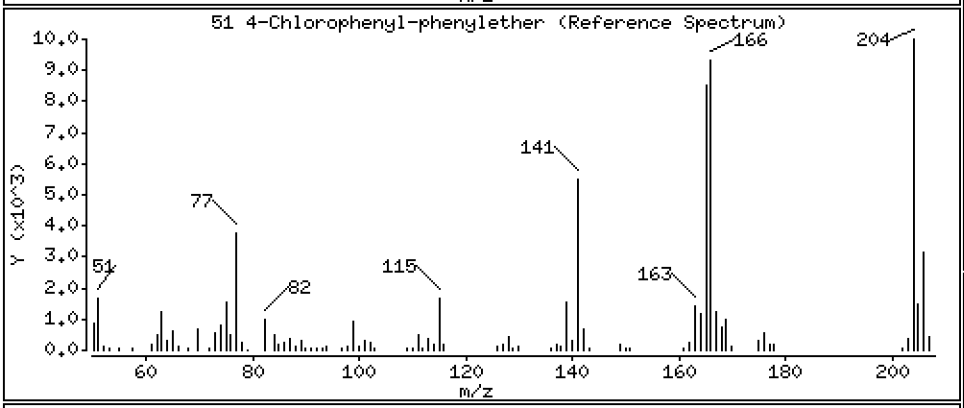
Concentration: 0.5893 ug/mL

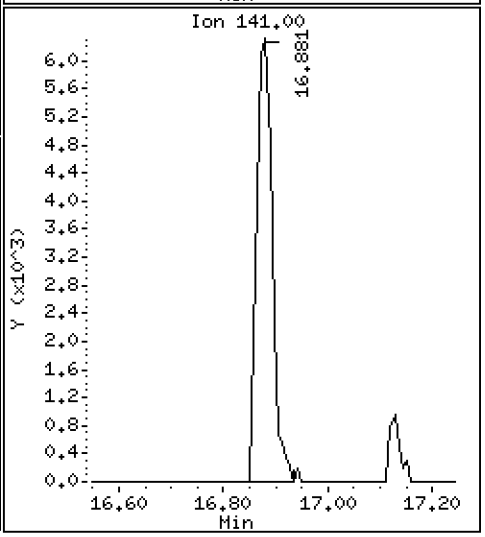


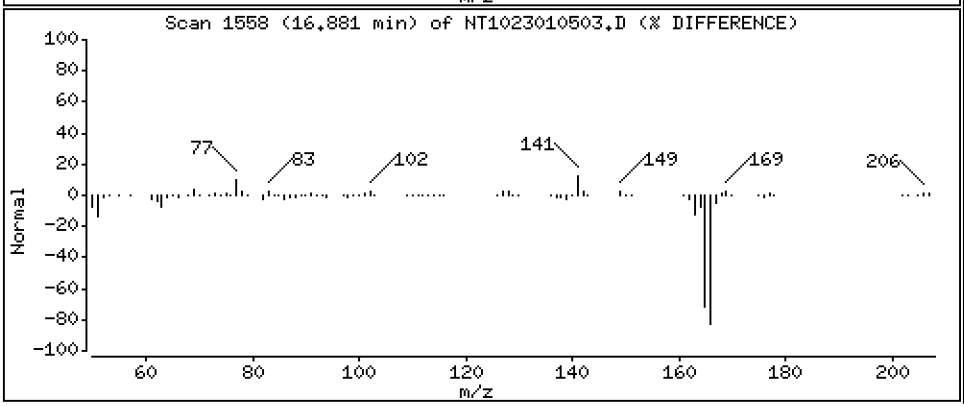












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

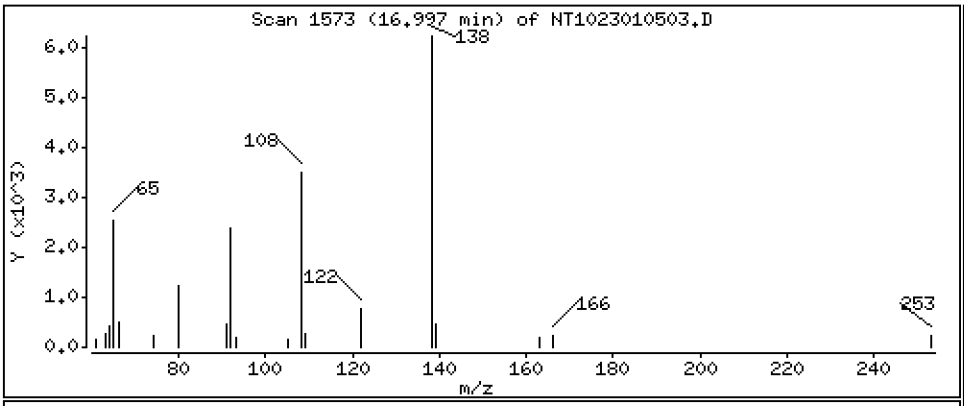
Operator: VTS

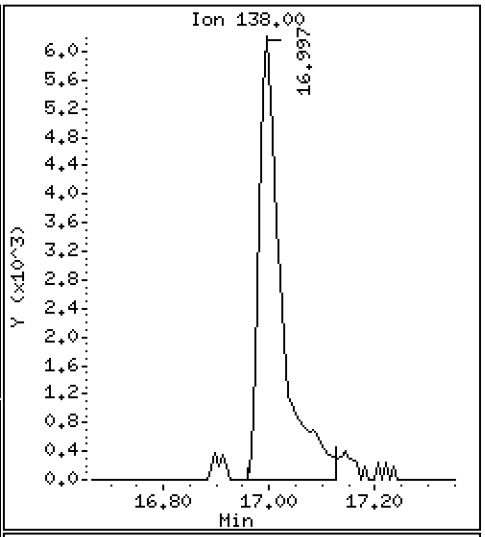
Column phase: ZB-5msi

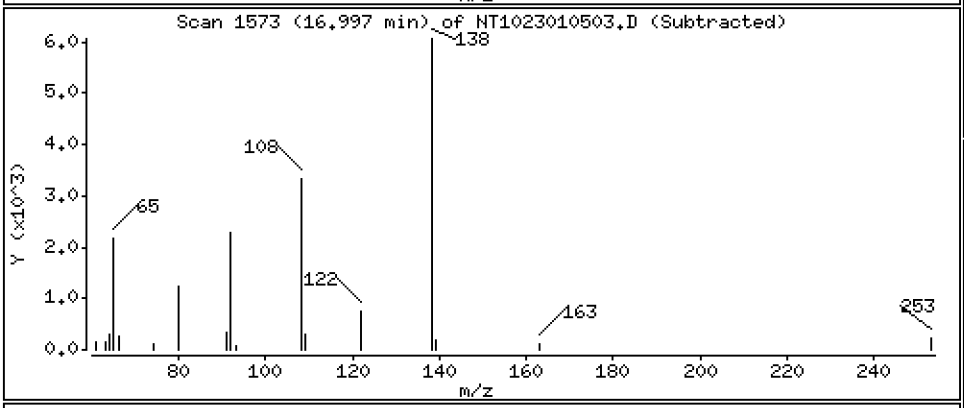
Column diameter: 0.25

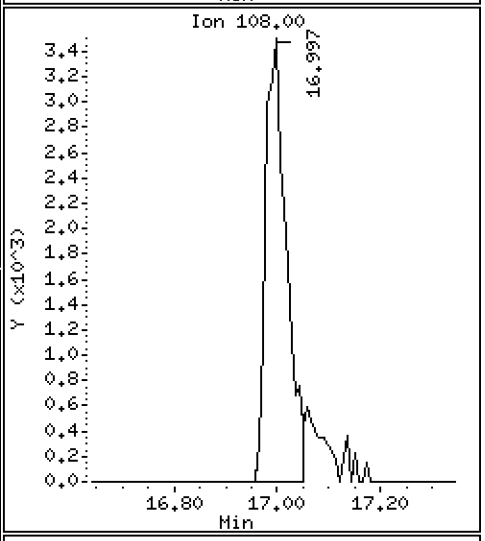
52 4-Nitroaniline

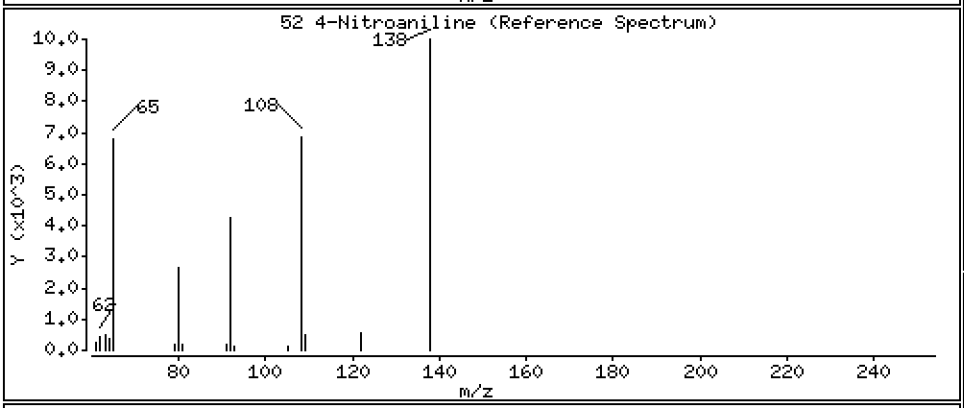
Concentration: 0.9068 ug/mL

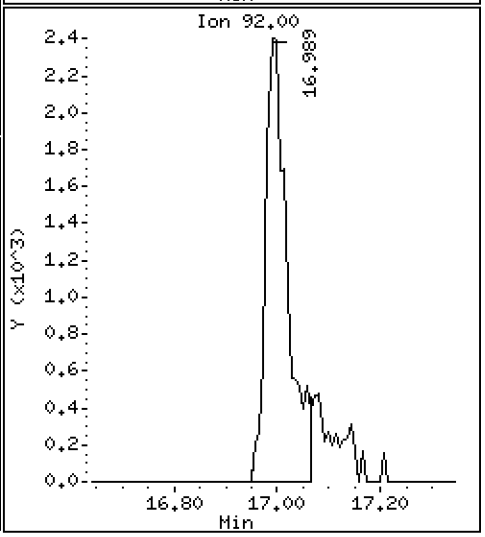


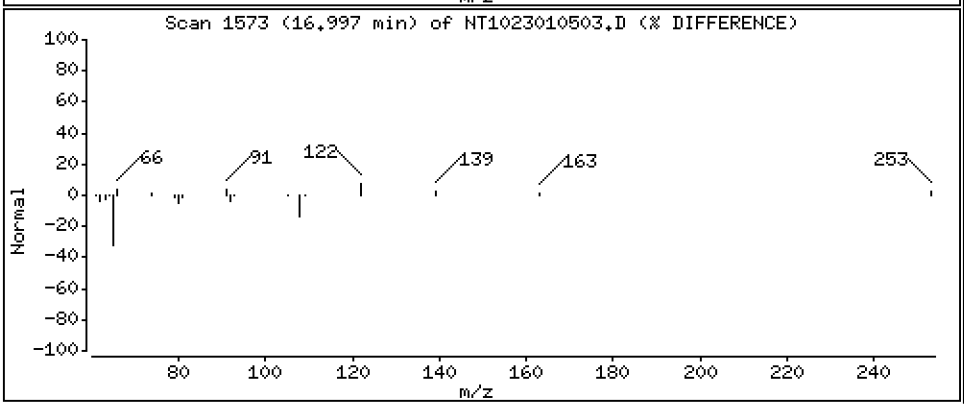












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

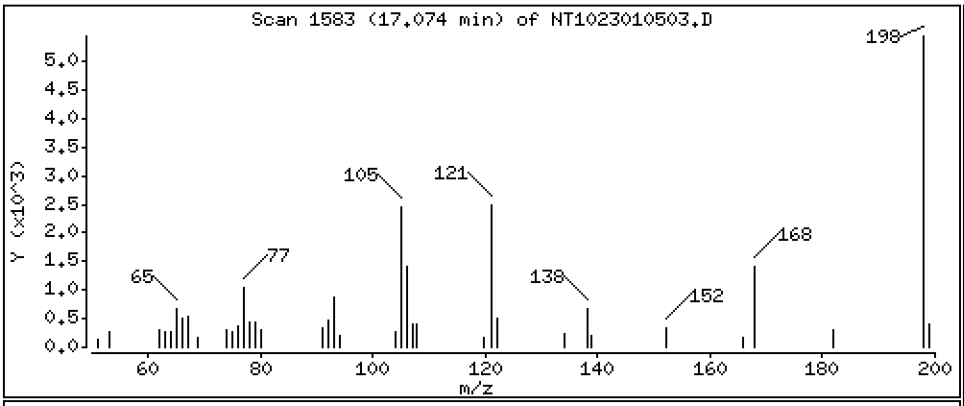
Operator: VTS

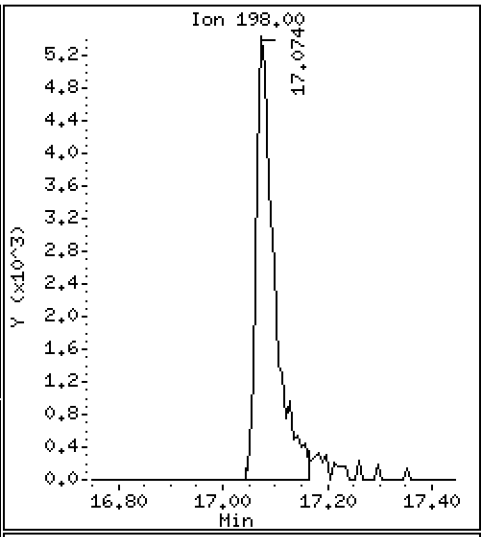
Column phase: ZB-5msi

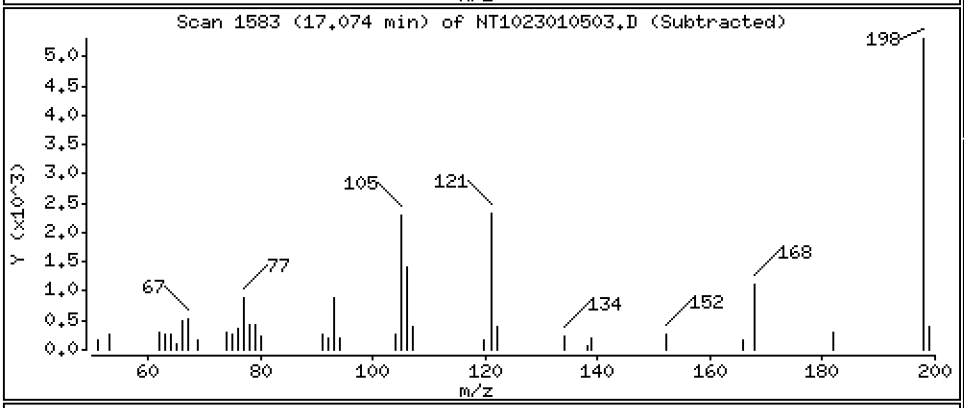
Column diameter: 0.25

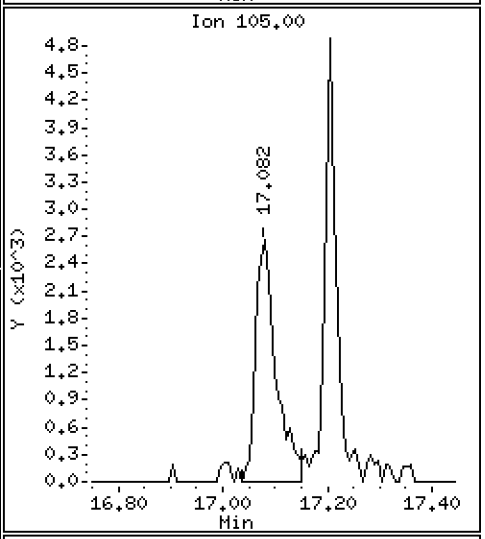
53 4,6-Dinitro-2-methylphenol

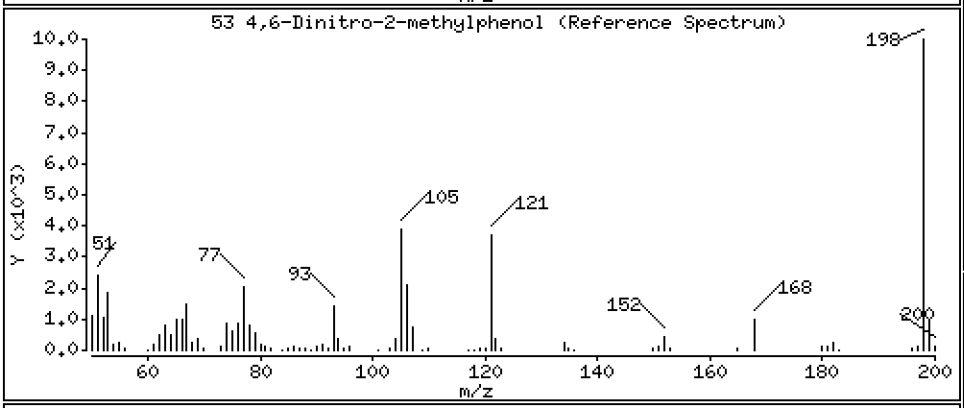
Concentration: 1.114 ug/mL

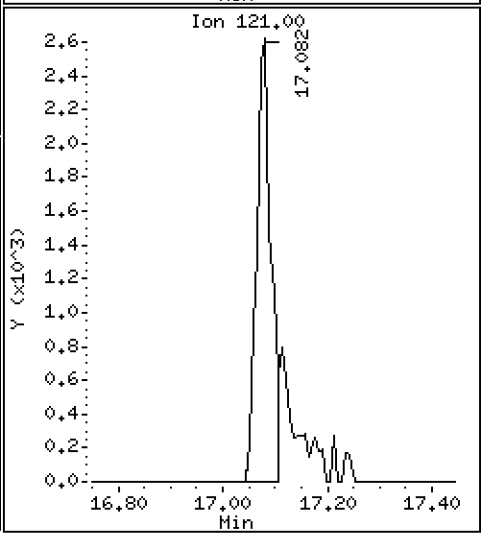


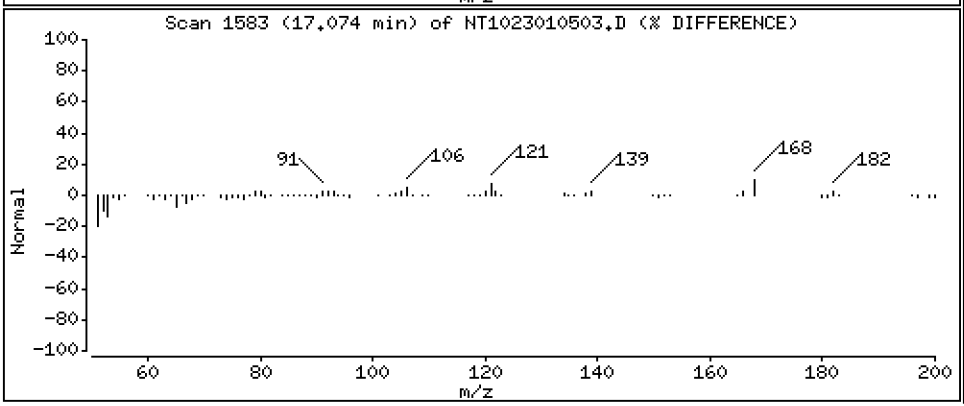












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

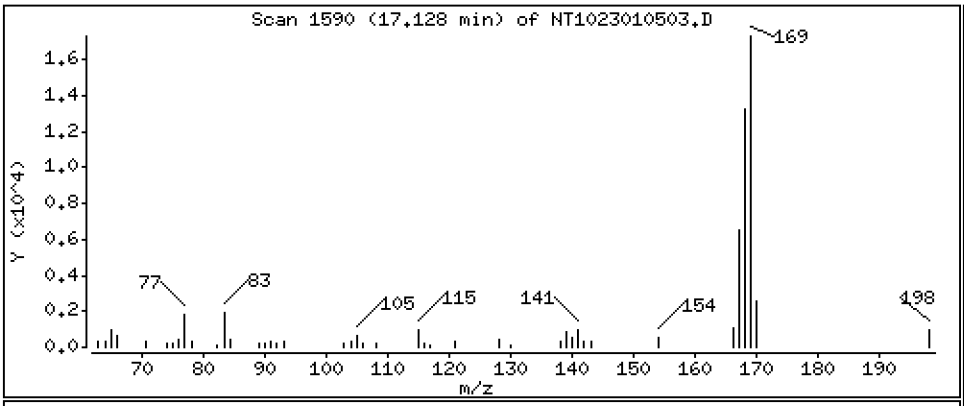
Operator: VTS

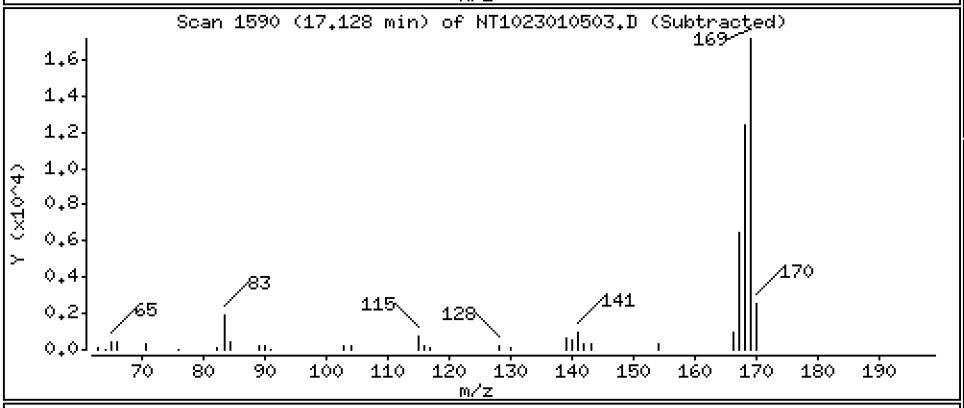
Column phase: ZB-5msi

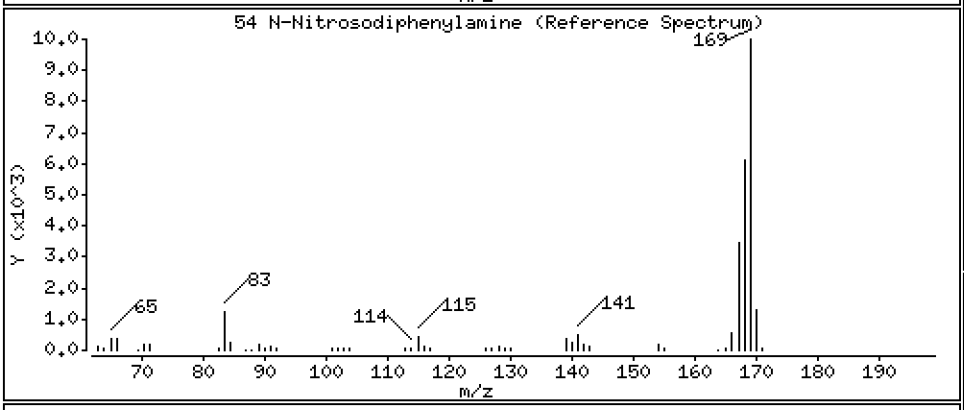
Column diameter: 0.25

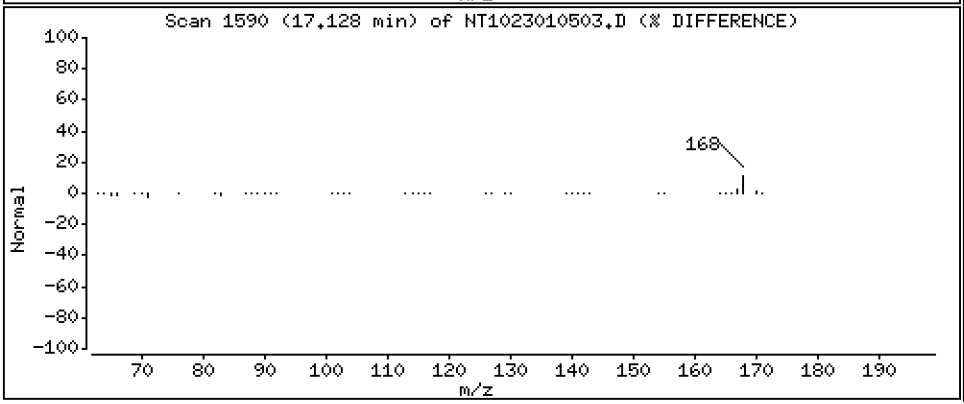
54 N-Nitrosodiphenylamine

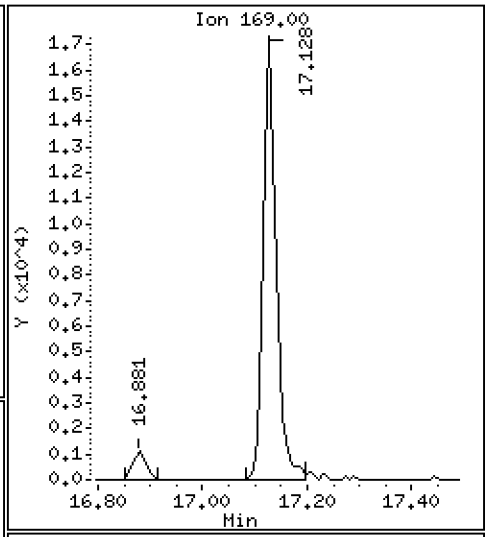
Concentration: 0.5578 ug/mL

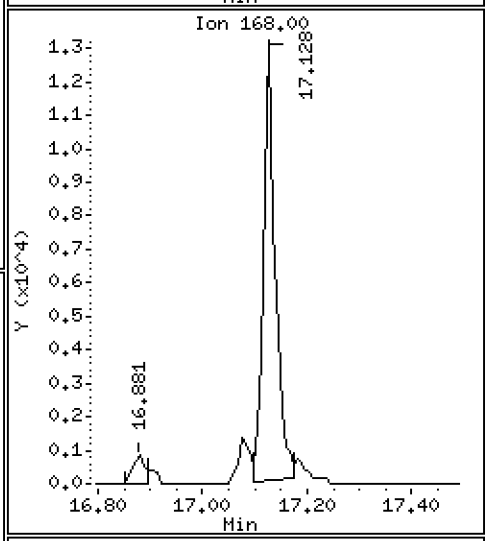


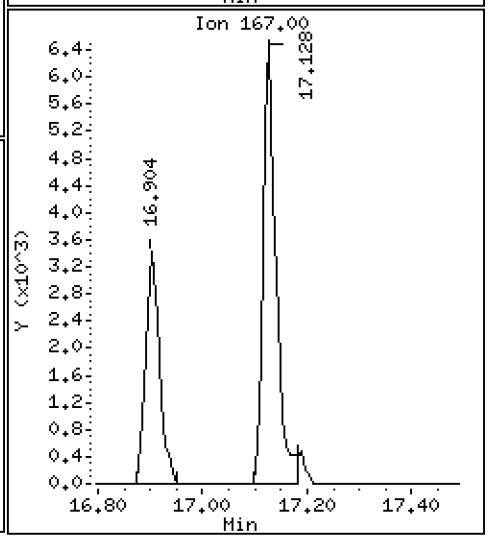












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

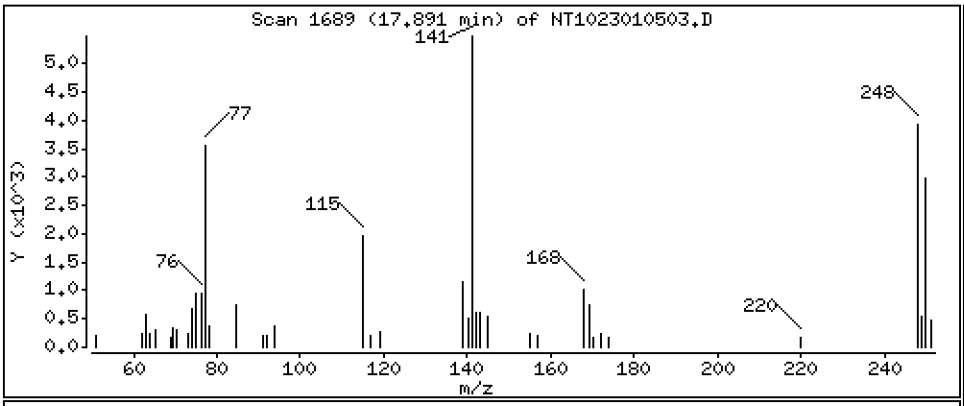
Operator: VTS

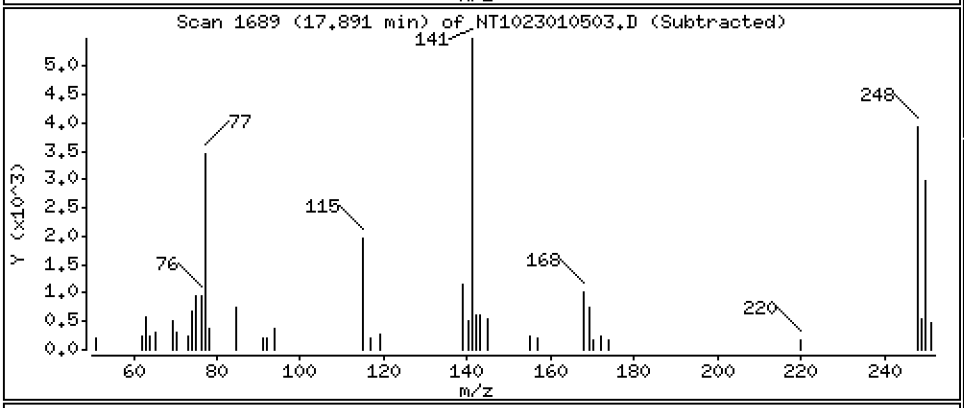
Column phase: ZB-5msi

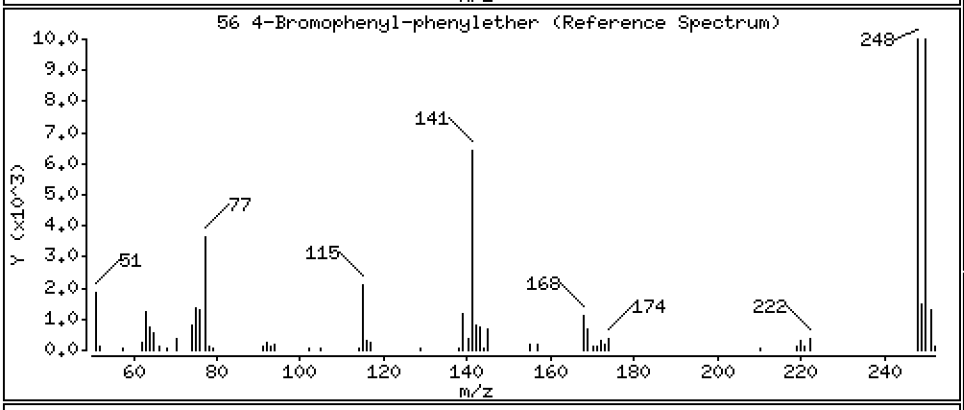
Column diameter: 0.25

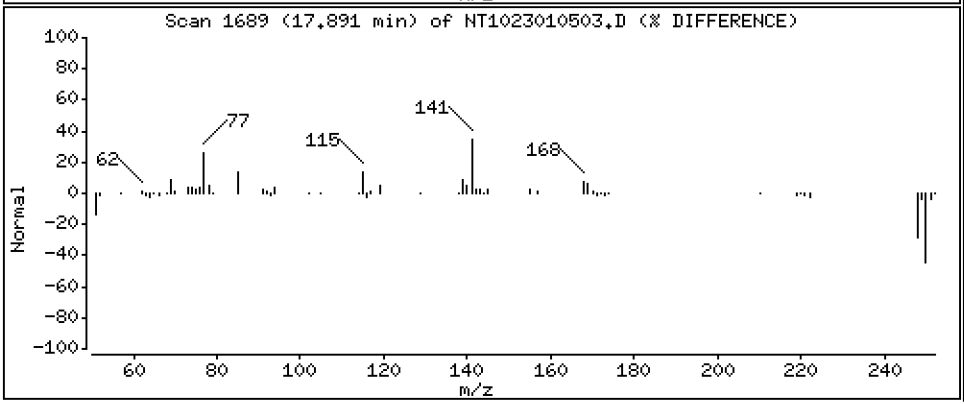
56 4-Bromophenyl-phenylether

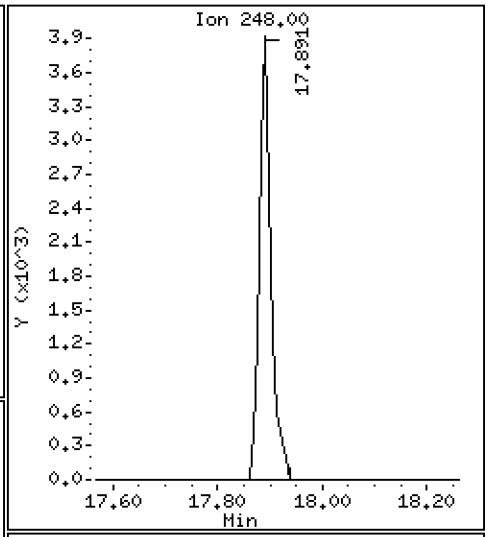
Concentration: 0.4493 ug/mL

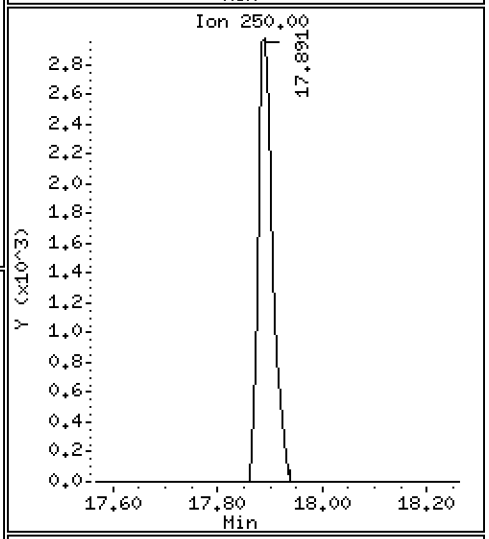


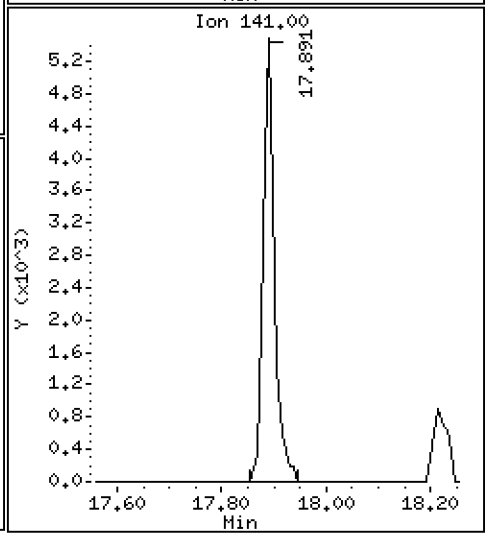












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

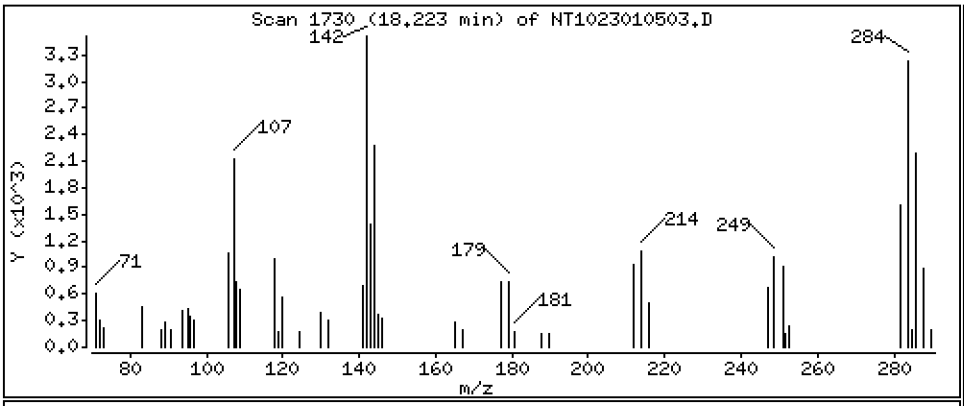
Operator: VTS

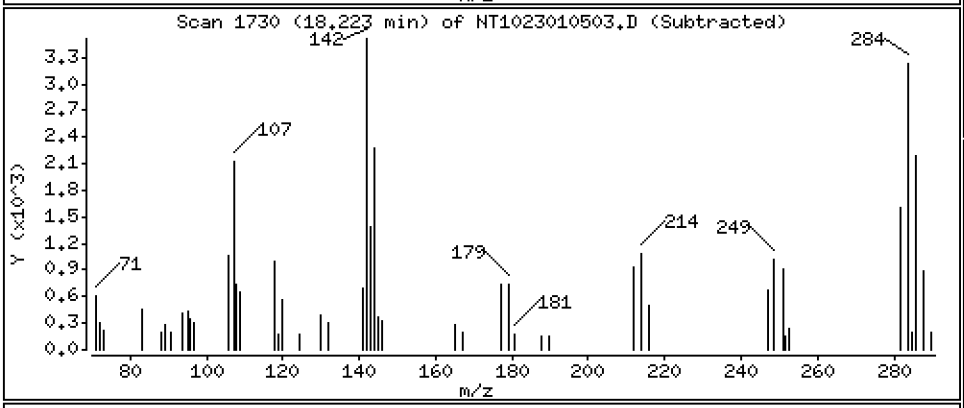
Column phase: ZB-5msi

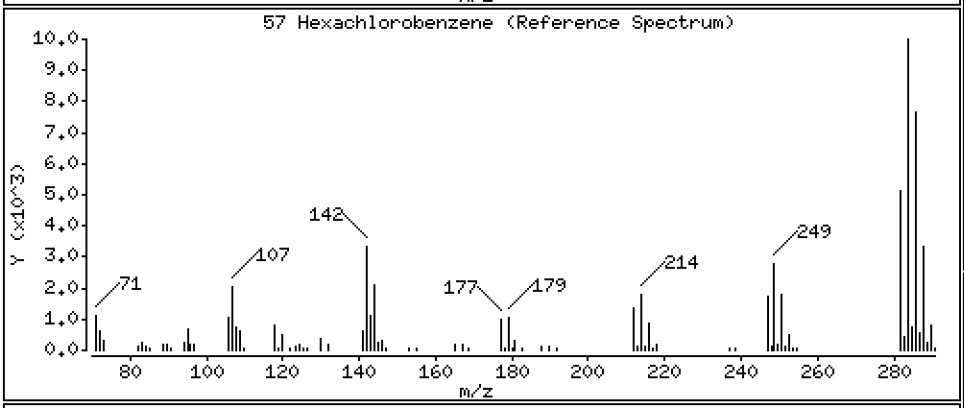
Column diameter: 0.25

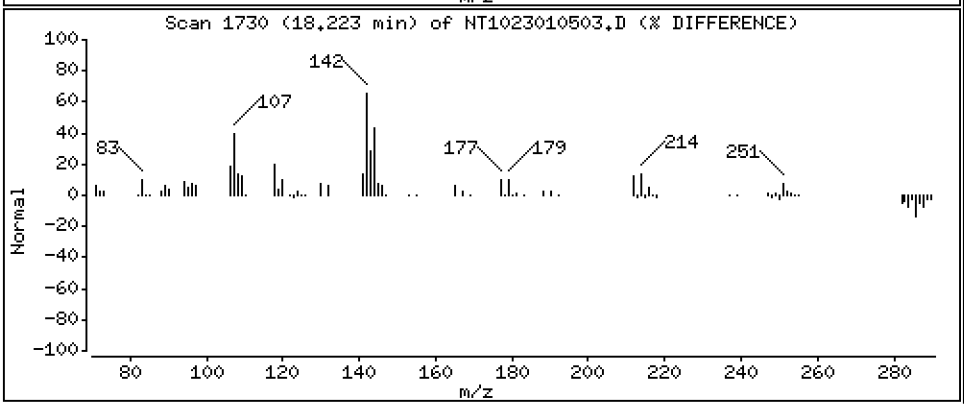
57 Hexachlorobenzene

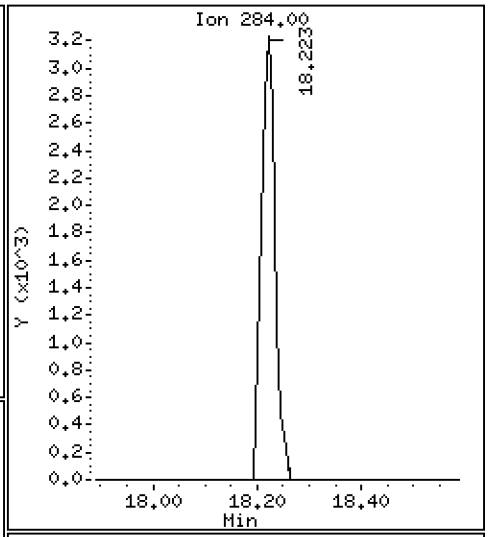
Concentration: 0.5354 ug/mL

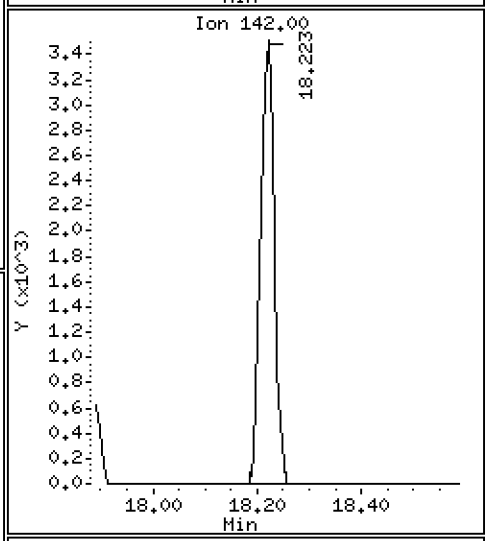


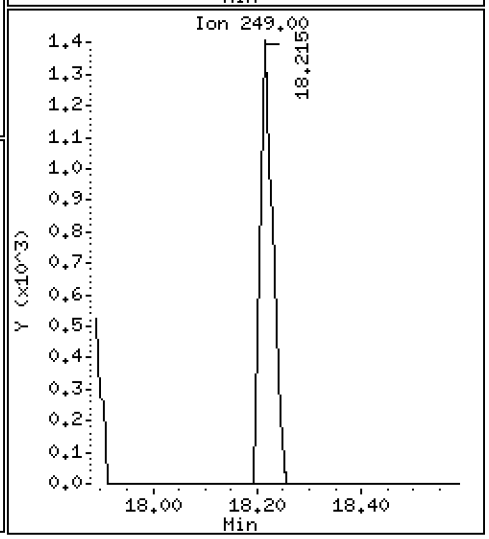












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

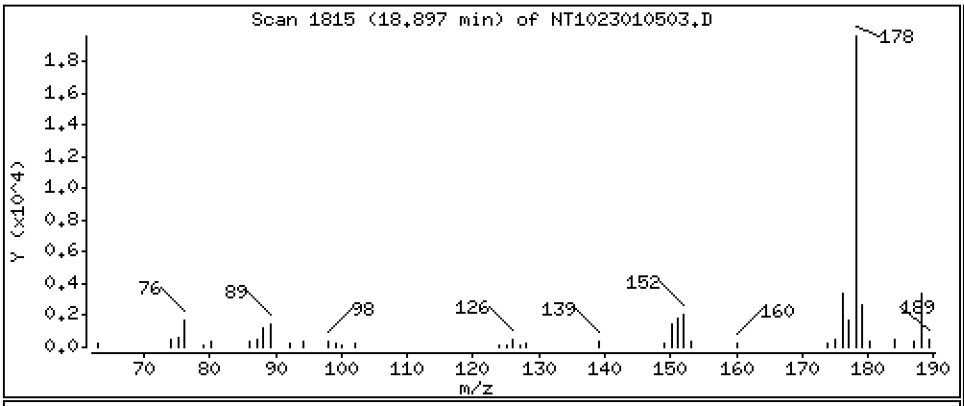
Operator: VTS

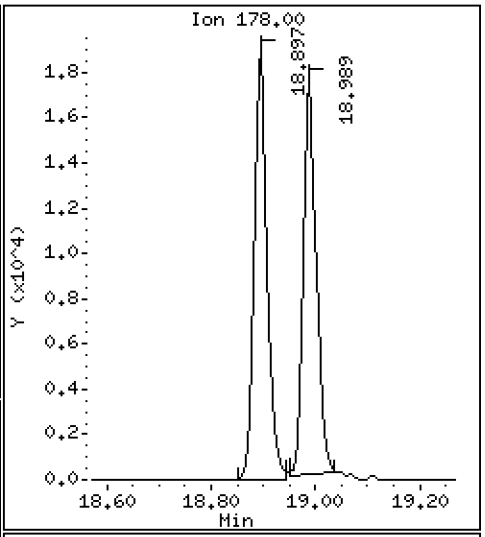
Column phase: ZB-5msi

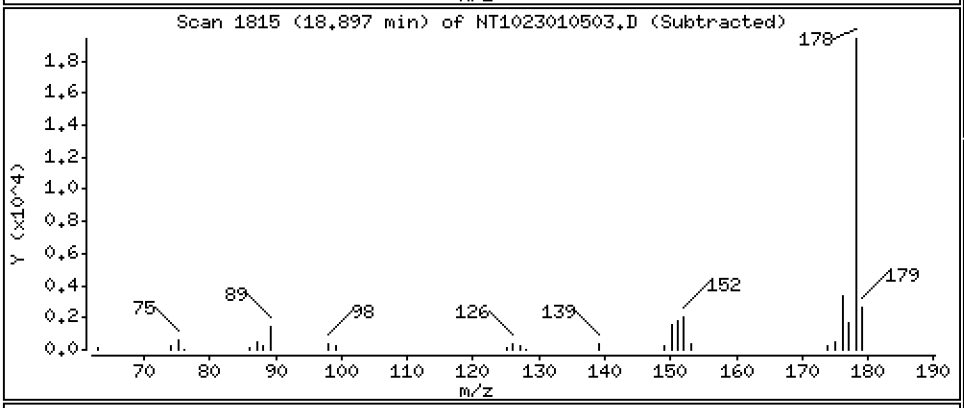
Column diameter: 0.25

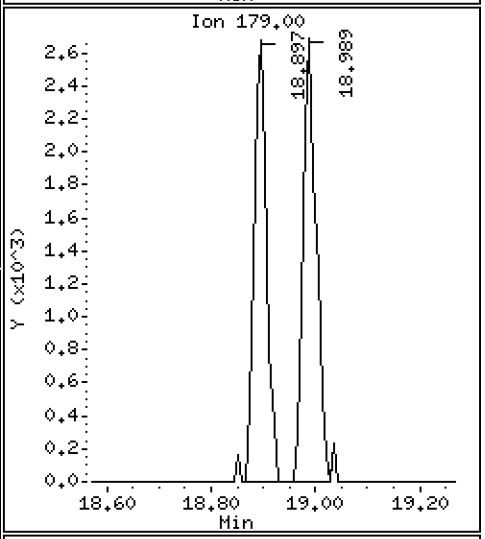
60 Phenanthrene

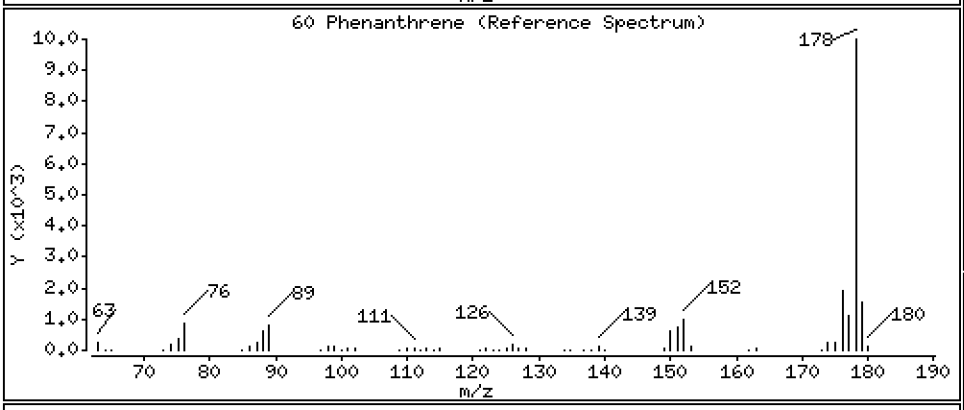
Concentration: 0.4815 ug/mL

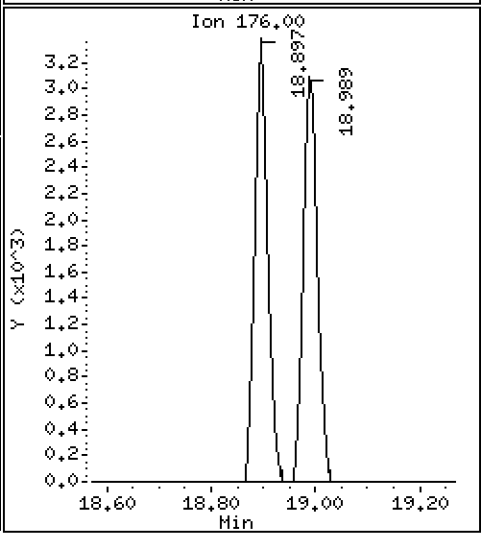


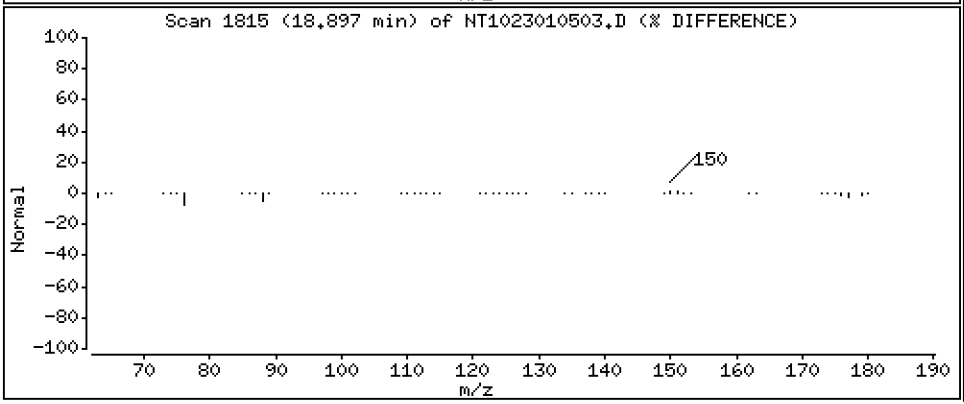












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

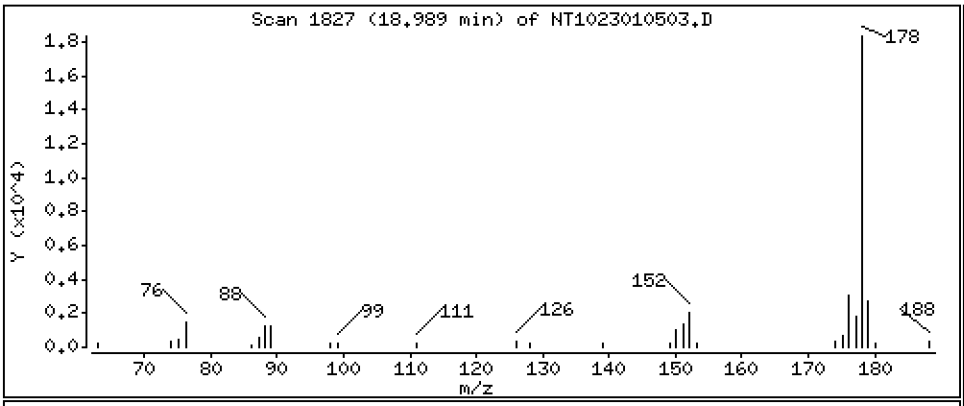
Operator: VTS

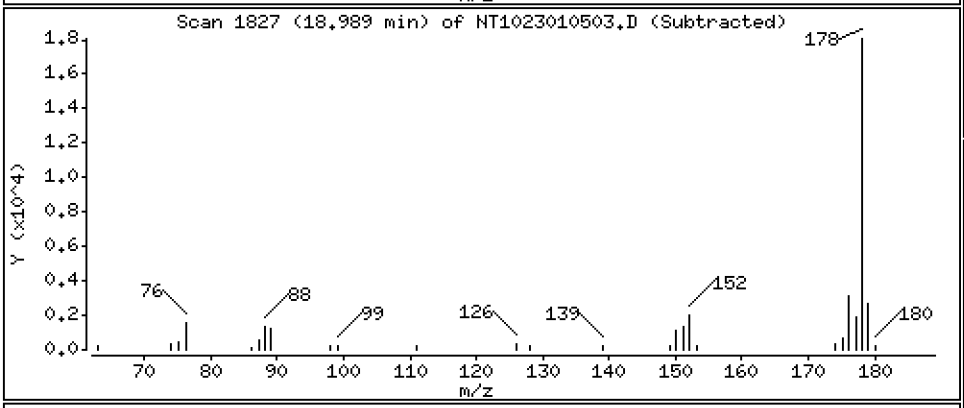
Column phase: ZB-5msi

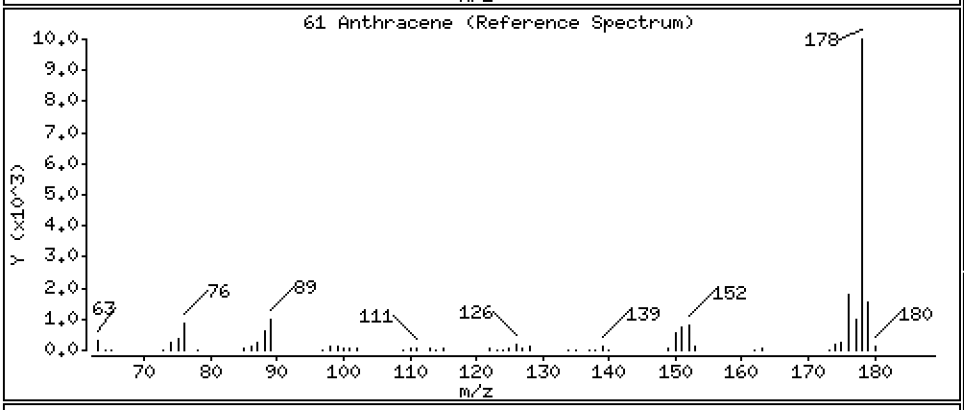
Column diameter: 0.25

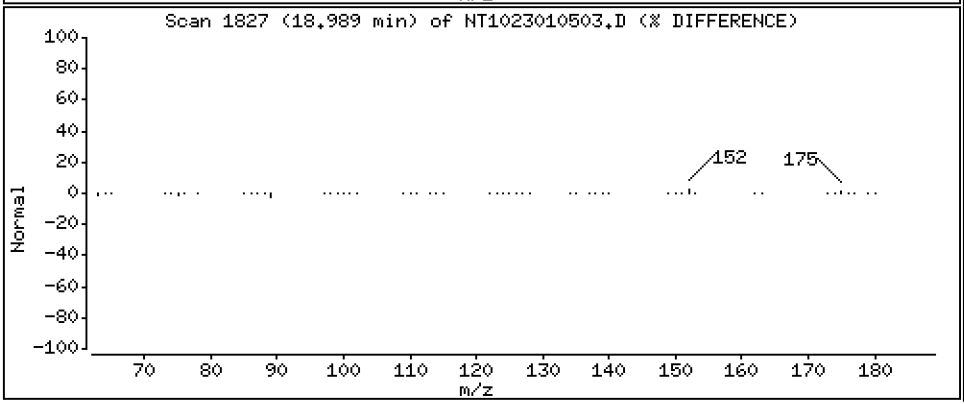
61 Anthracene

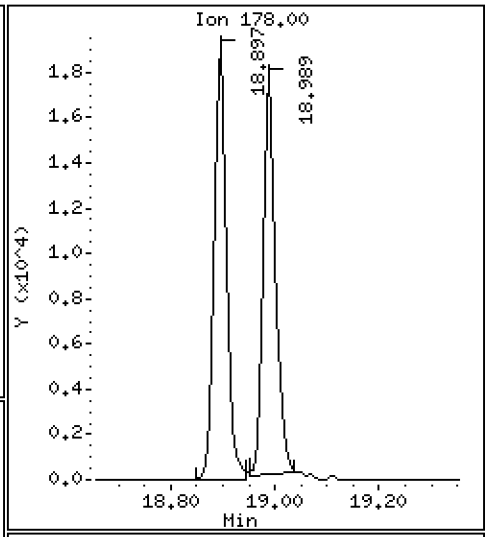
Concentration: 0.4351 ug/mL

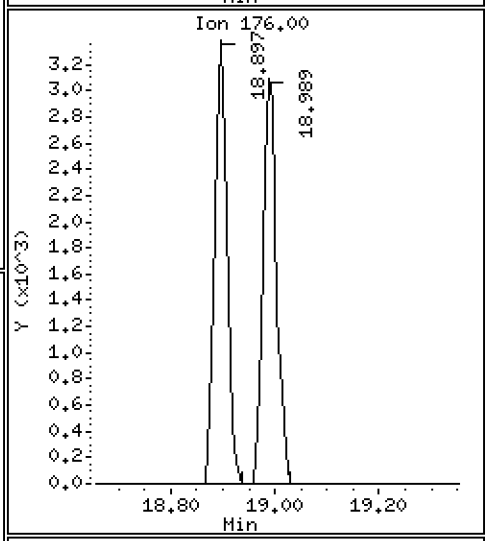


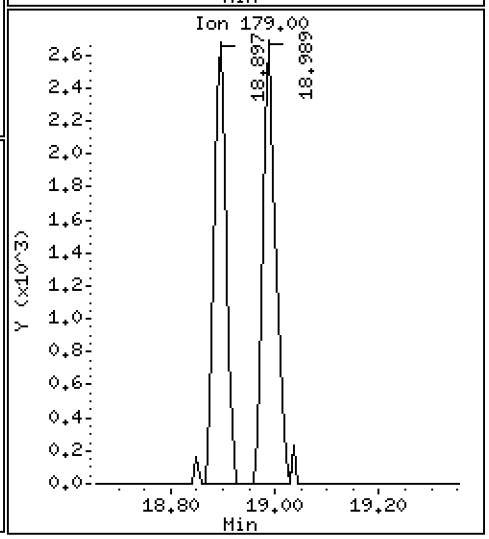












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

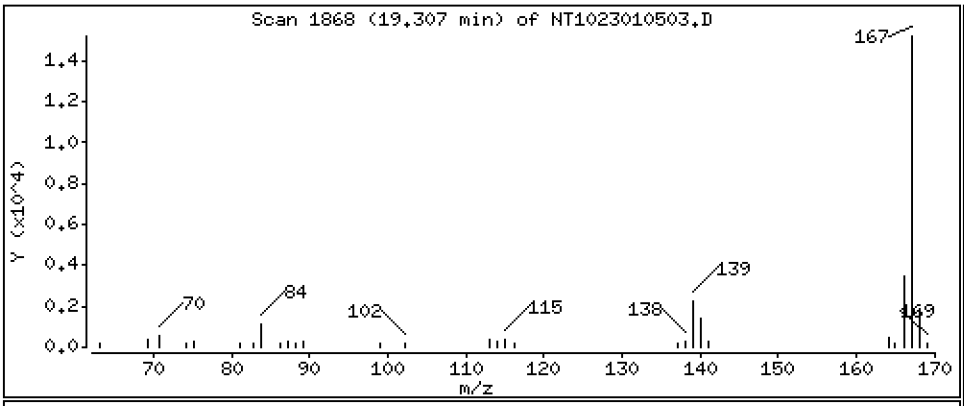
Operator: VTS

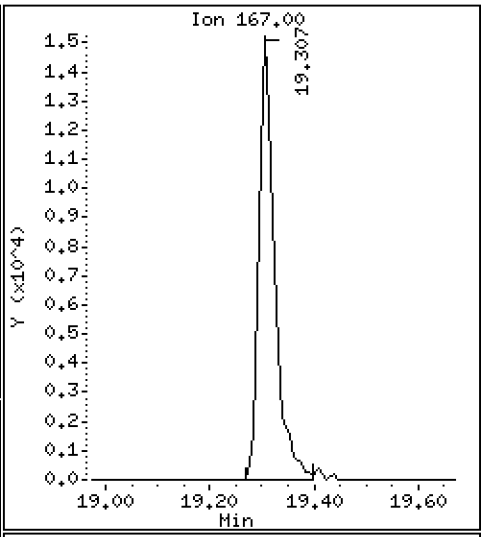
Column phase: ZB-5msi

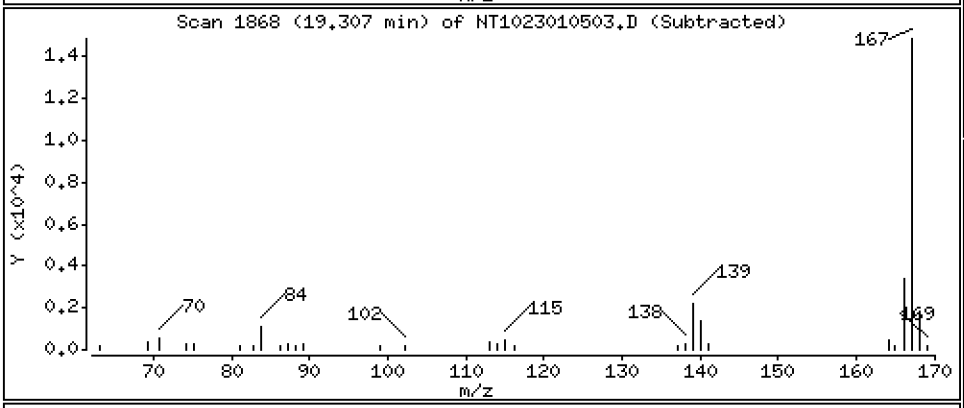
Column diameter: 0.25

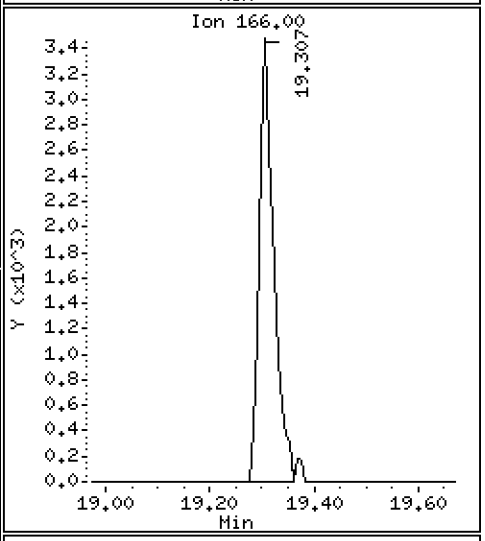
62 Carbazole

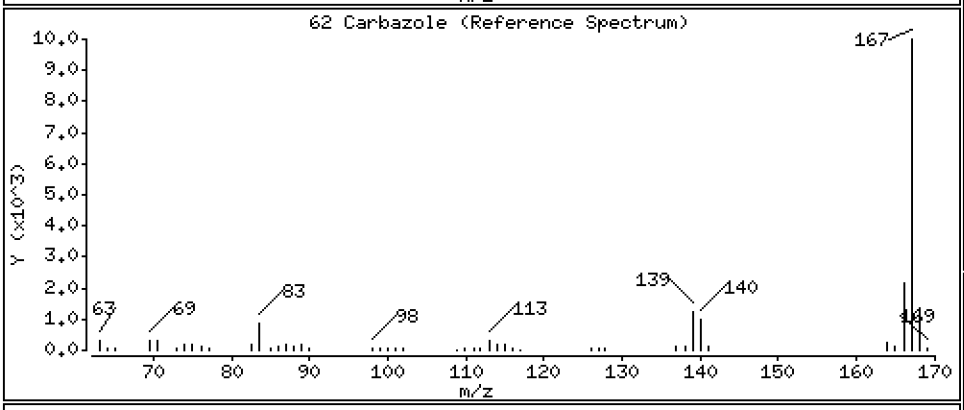
Concentration: 0.4419 ug/mL

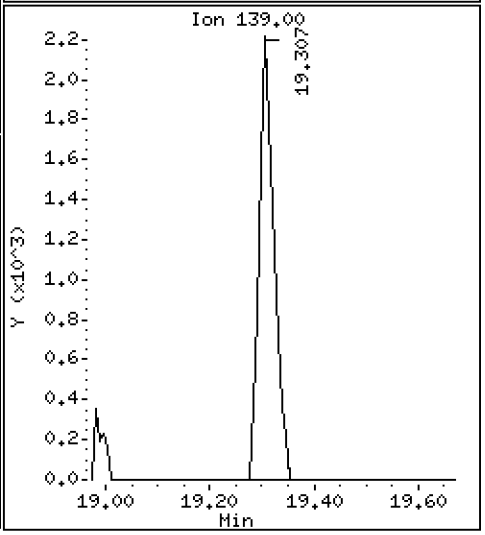


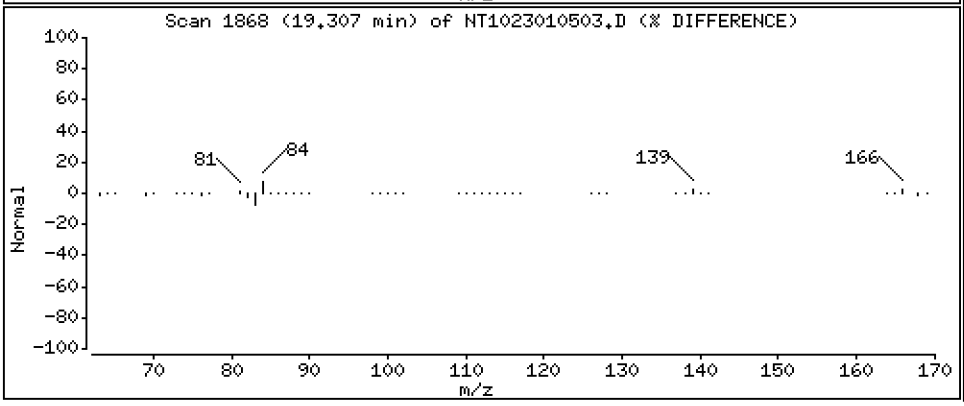












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

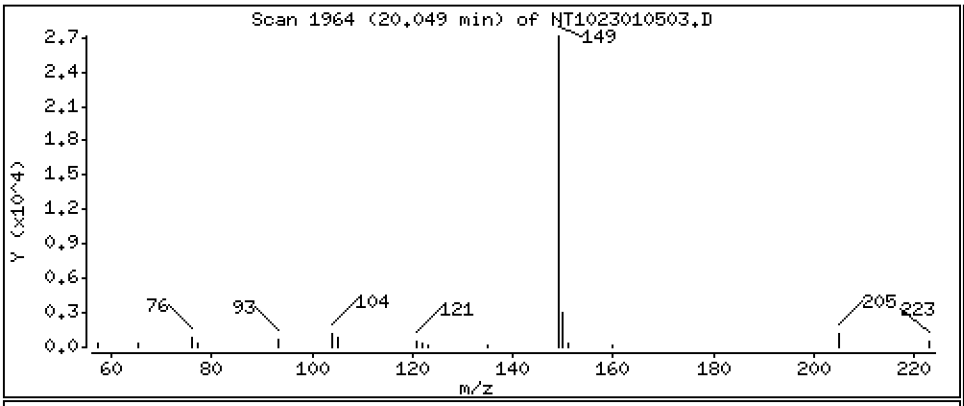
Operator: VTS

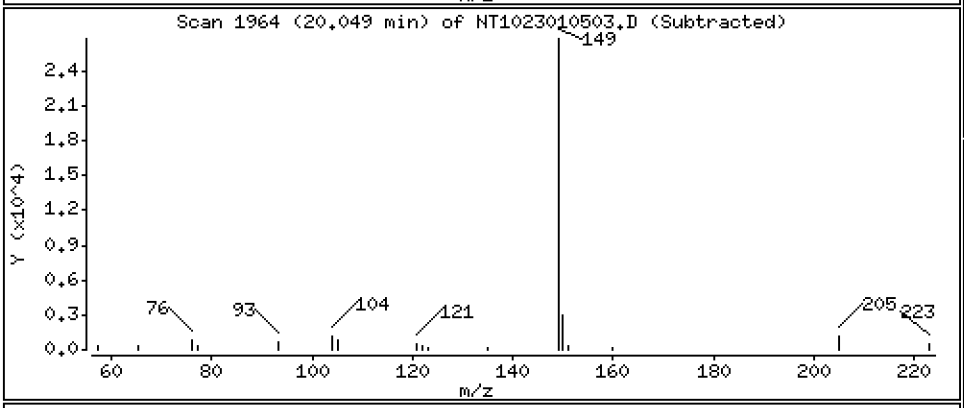
Column phase: ZB-5msi

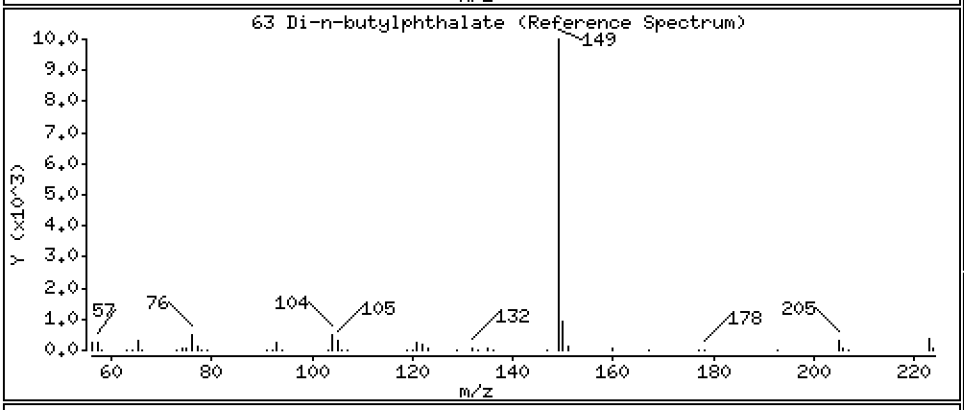
Column diameter: 0.25

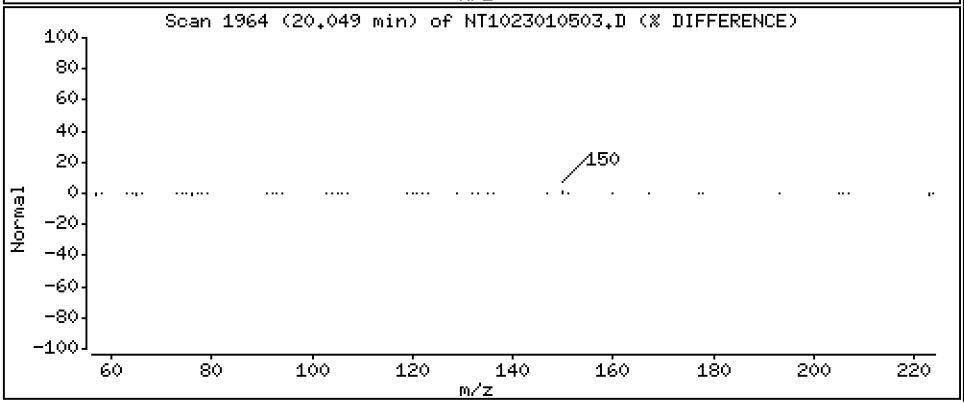
63 Di-n-butylphthalate

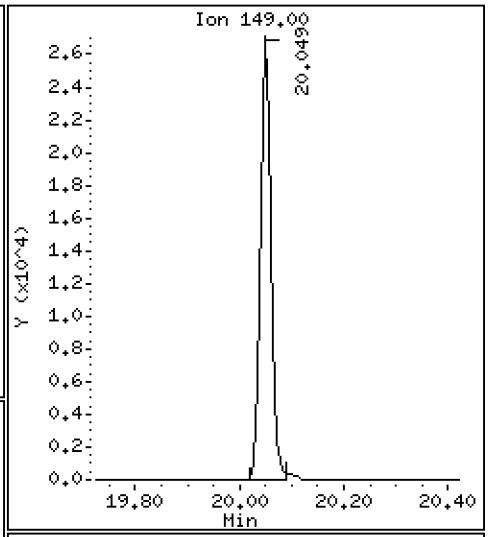
Concentration: 0.4148 ug/mL

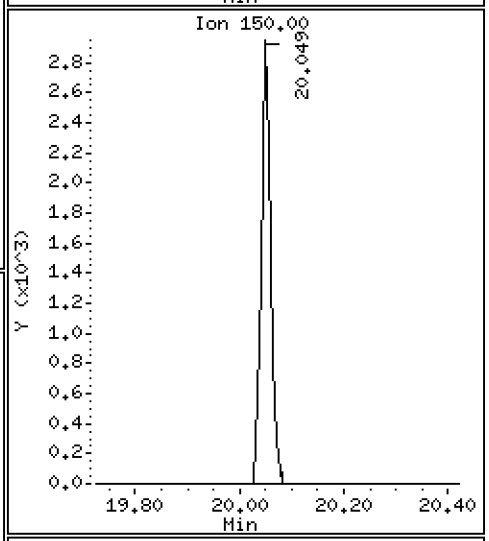


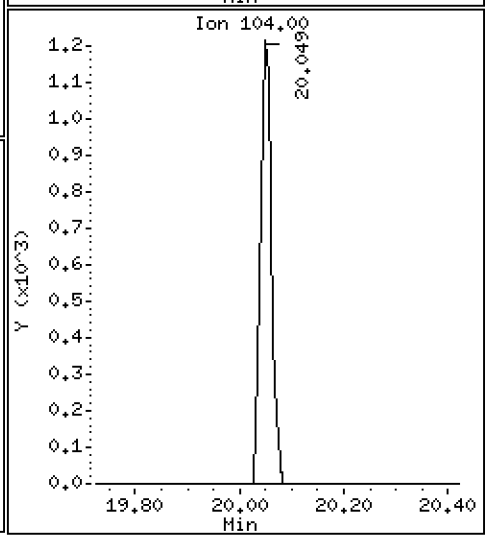












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

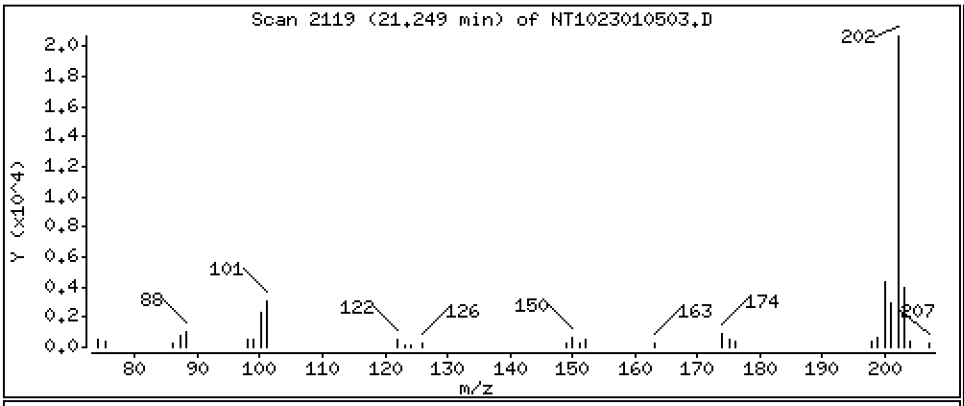
Operator: VTS

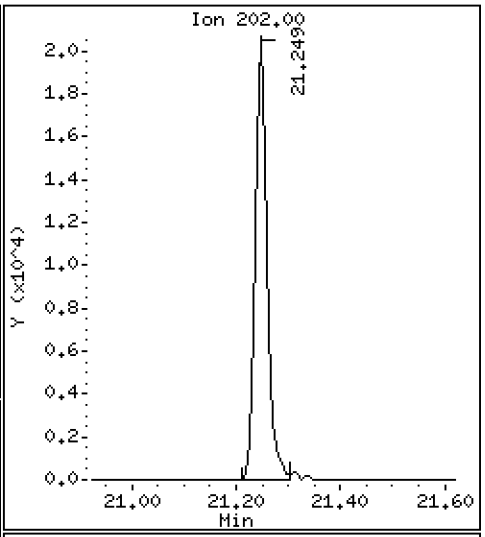
Column phase: ZB-5msi

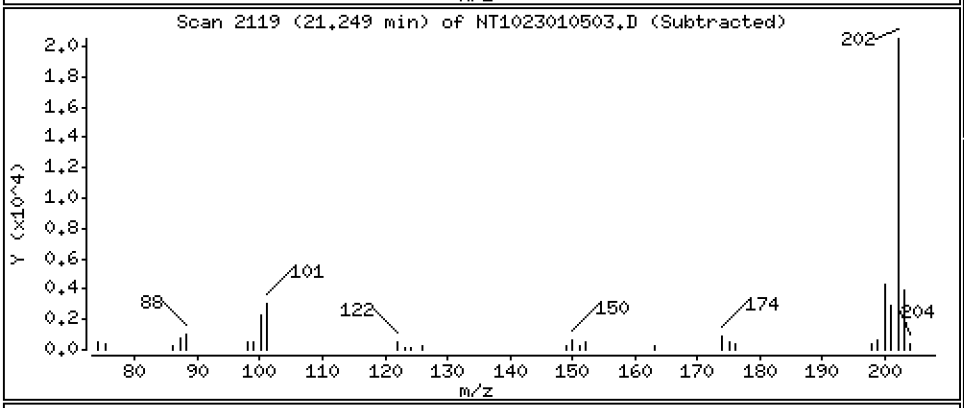
Column diameter: 0.25

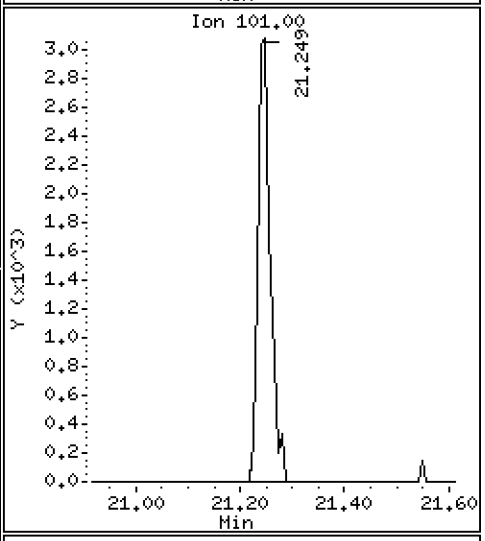
64 Fluoranthene

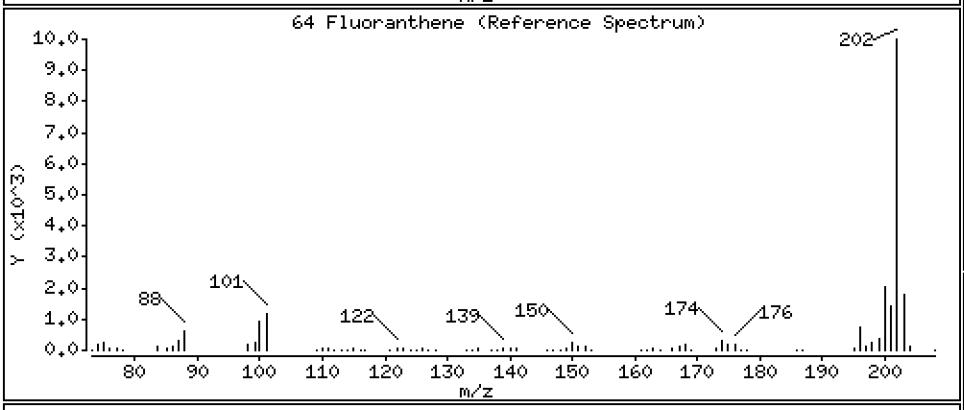
Concentration: 0.4721 ug/mL

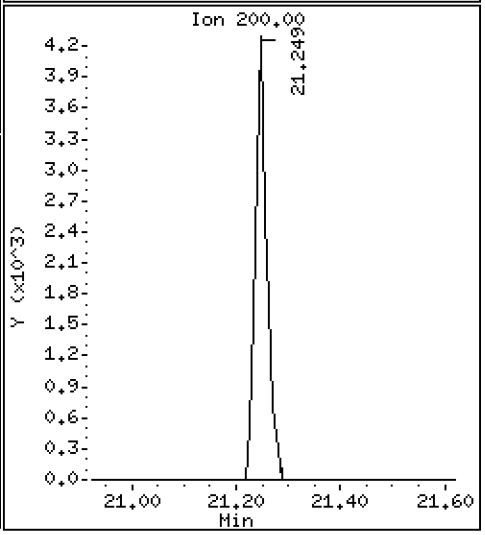


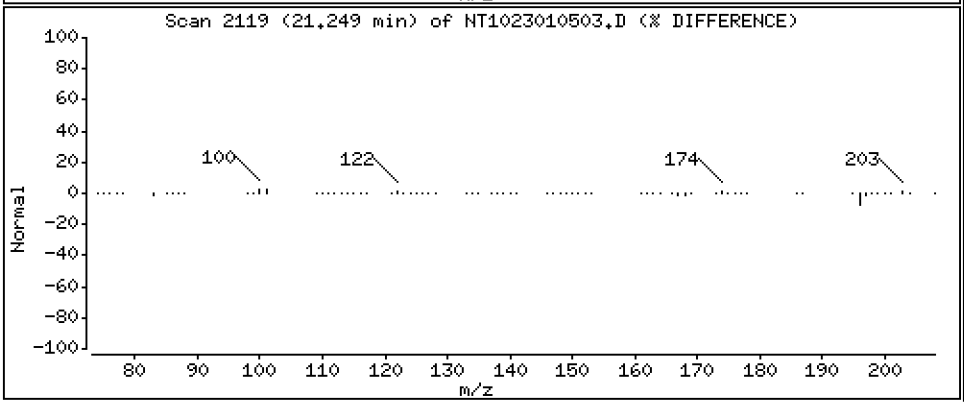












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

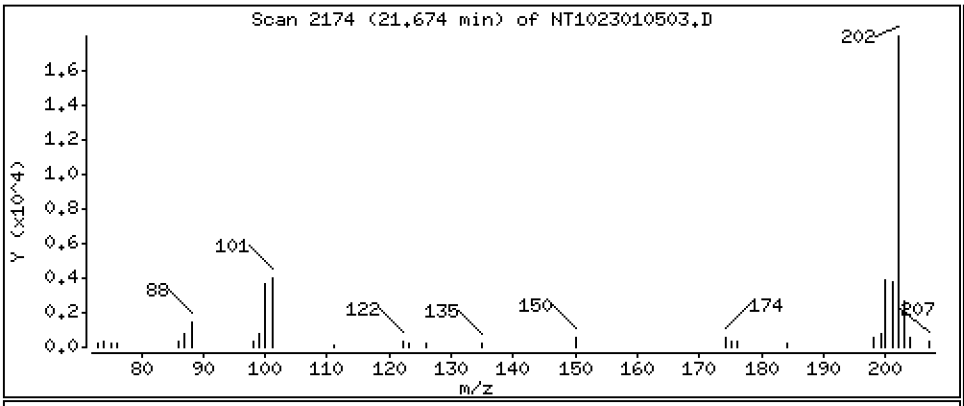
Operator: VTS

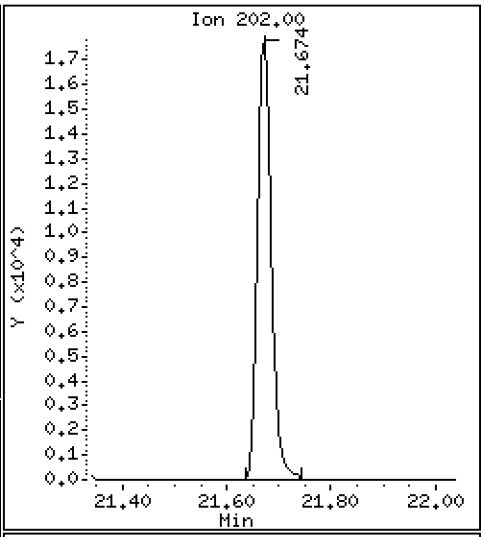
Column phase: ZB-5msi

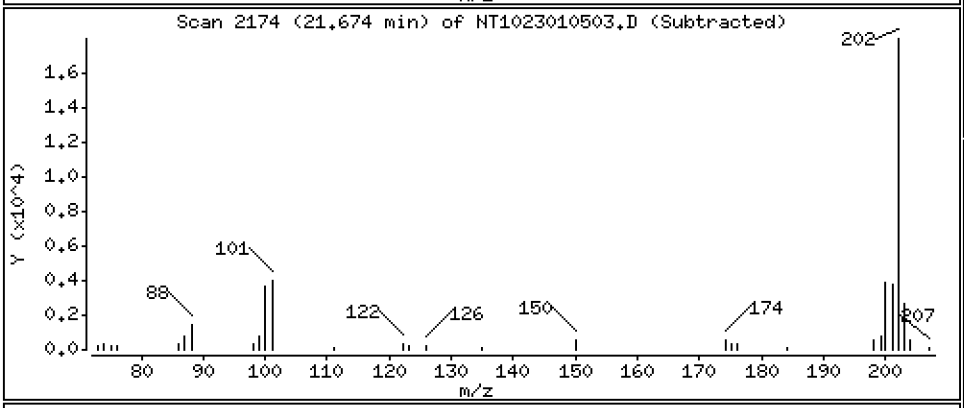
Column diameter: 0.25

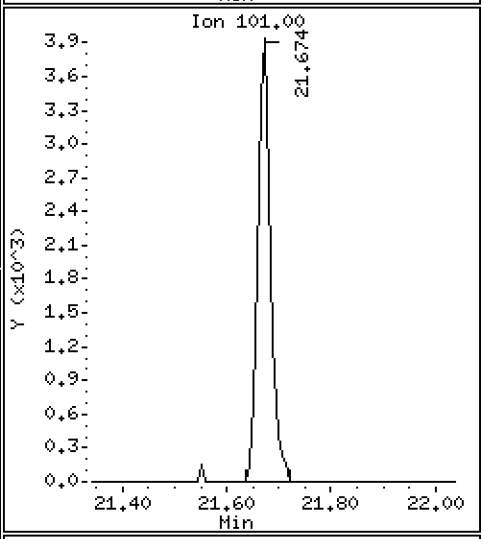
65 Pyrene

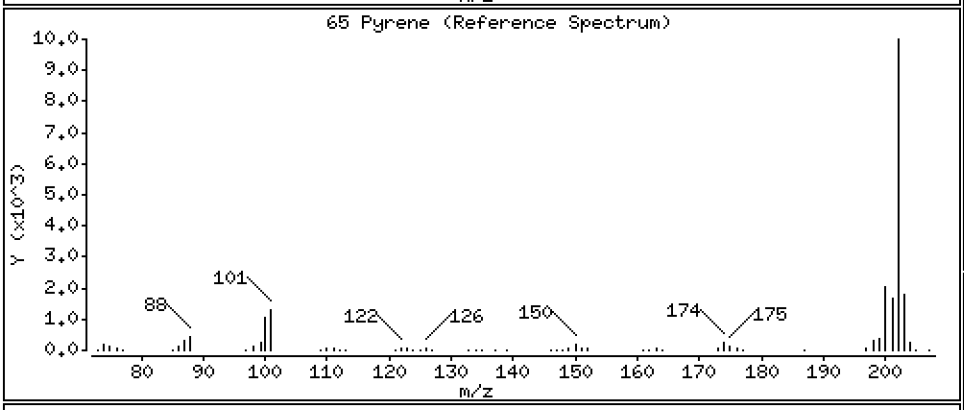
Concentration: 0.4748 ug/mL

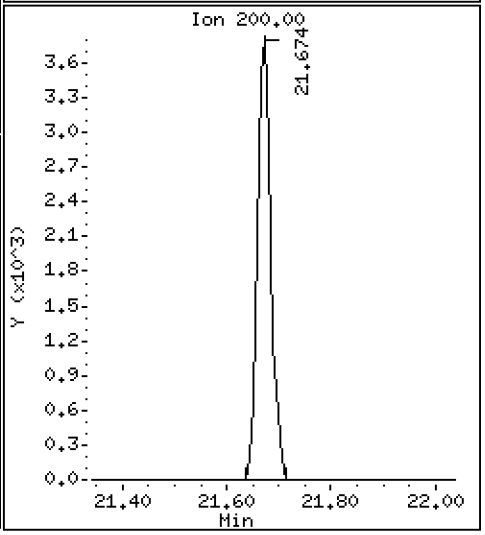


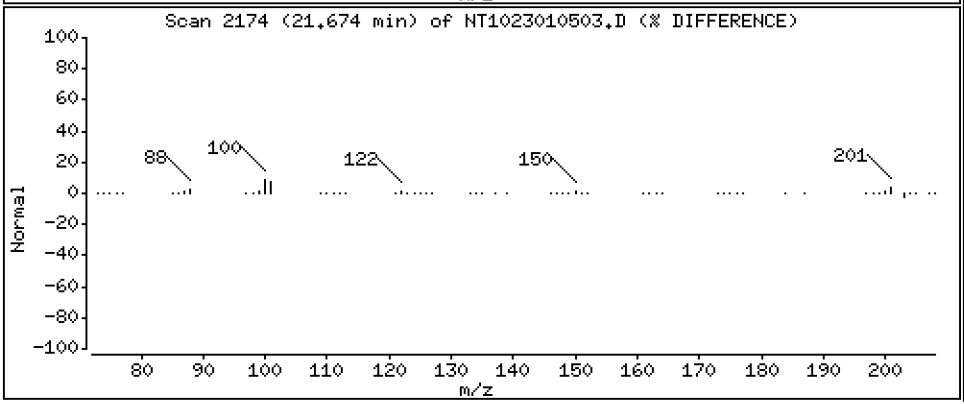












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

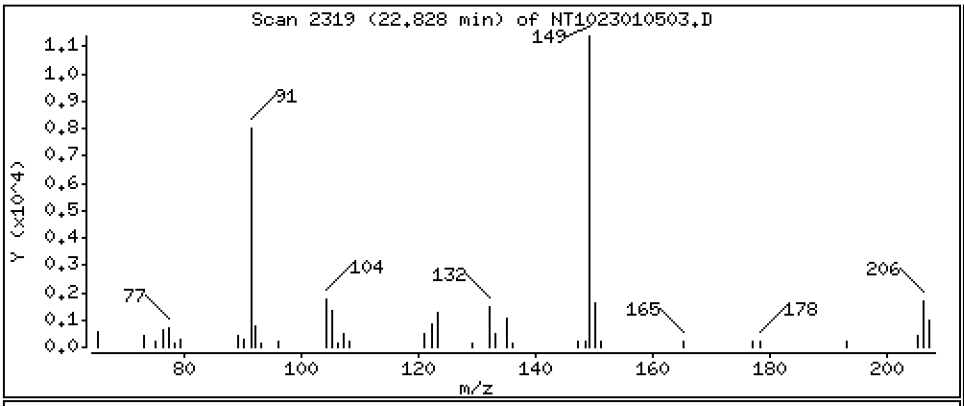
Operator: VTS

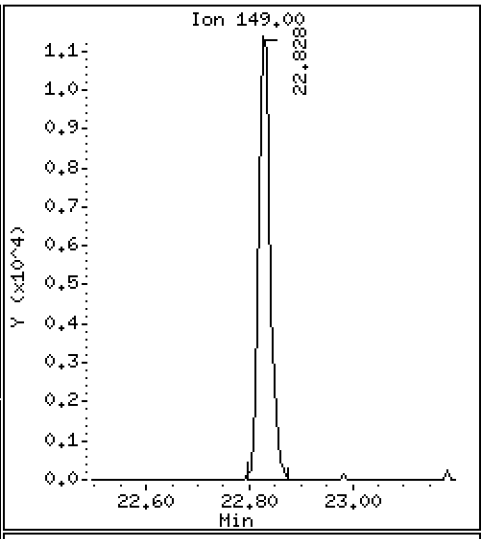
Column phase: ZB-5msi

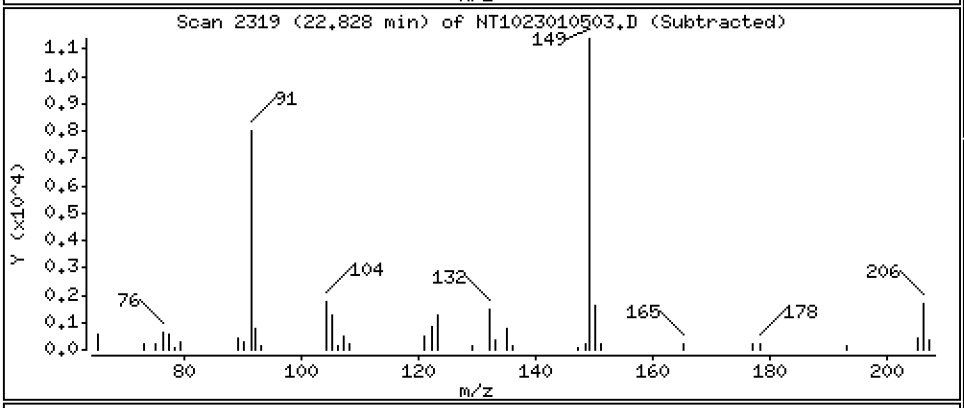
Column diameter: 0.25

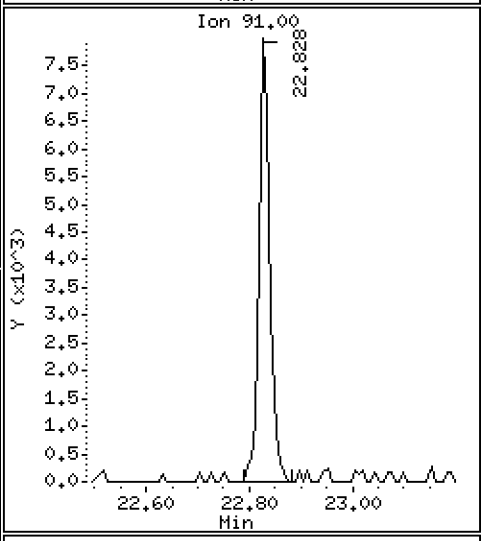
67 Butylbenzylphthalate

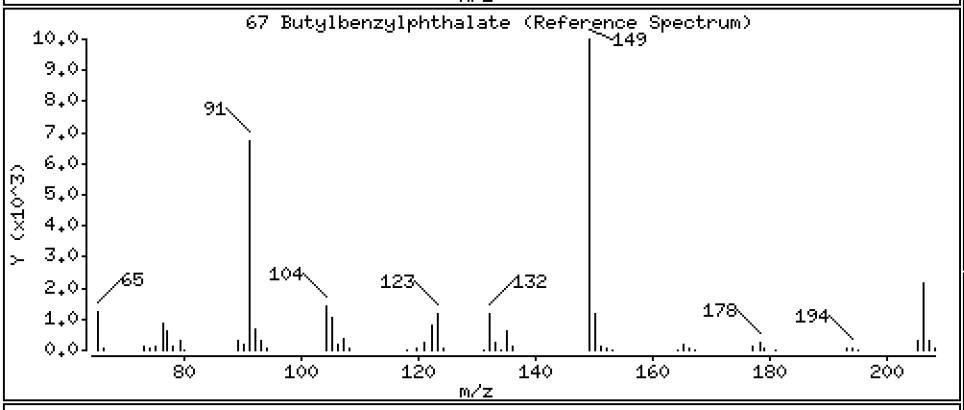
Concentration: 0.4679 ug/mL

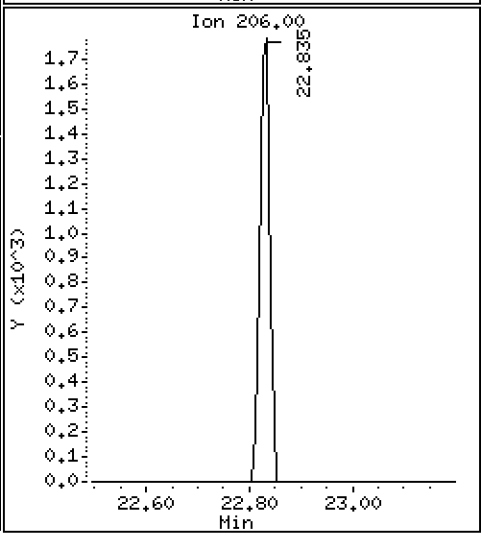


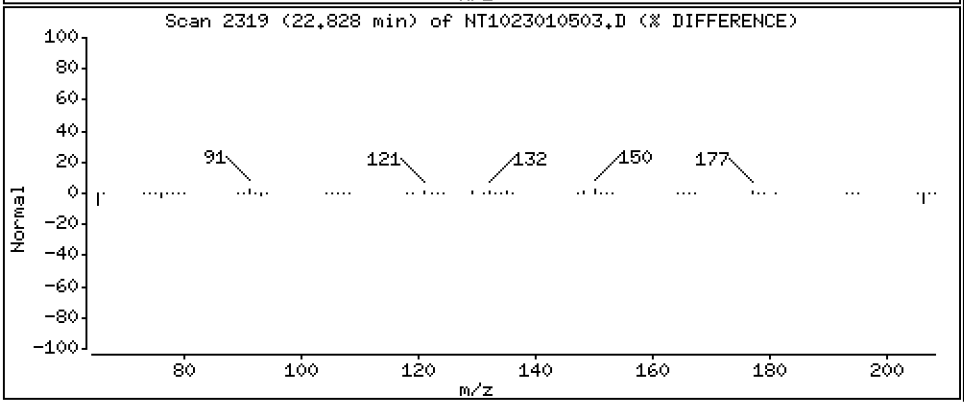












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

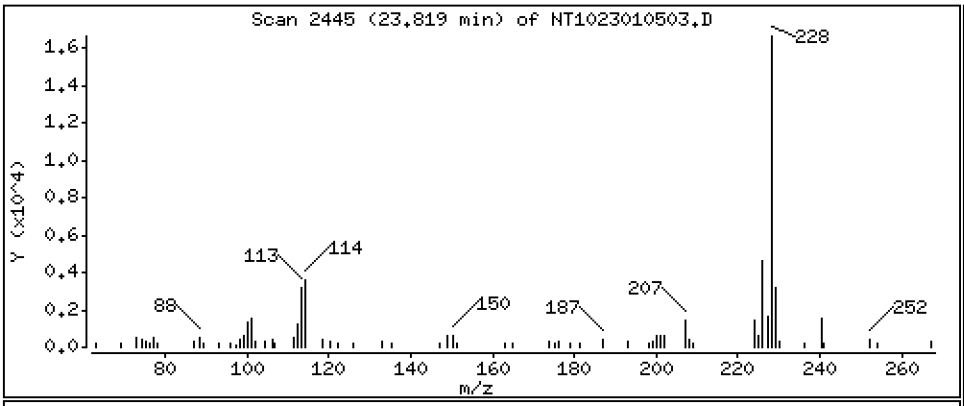
Operator: VTS

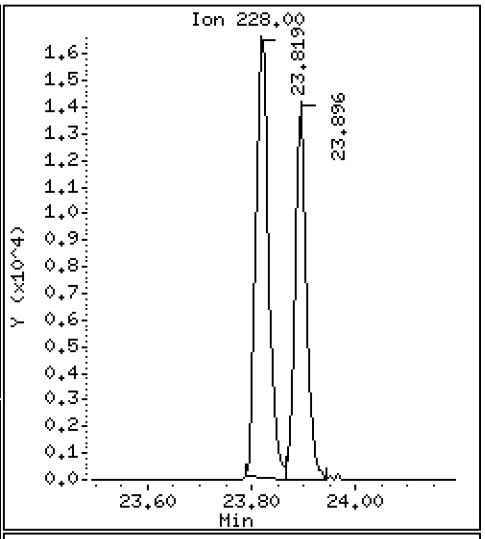
Column phase: ZB-5msi

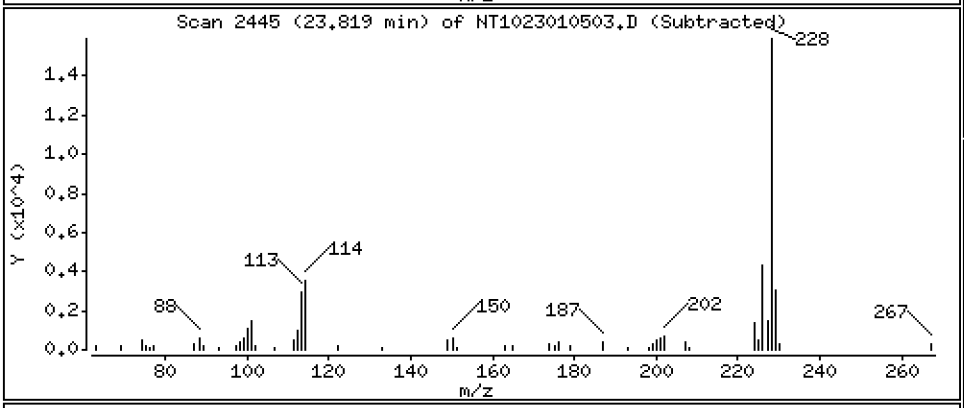
Column diameter: 0.25

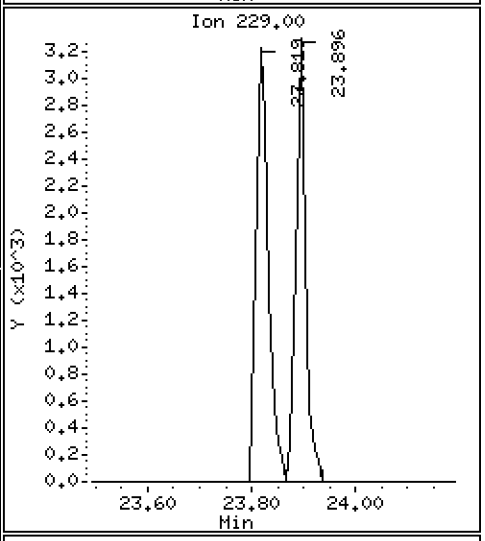
68 Benzo(a)anthracene

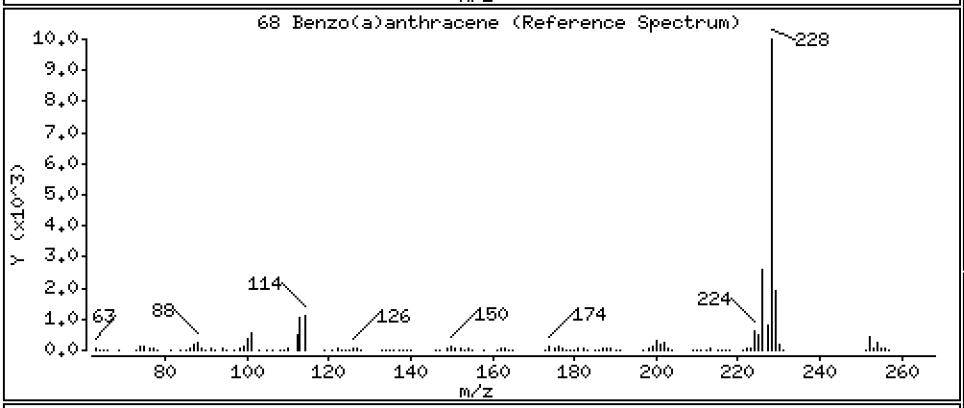
Concentration: 0.5286 ug/mL

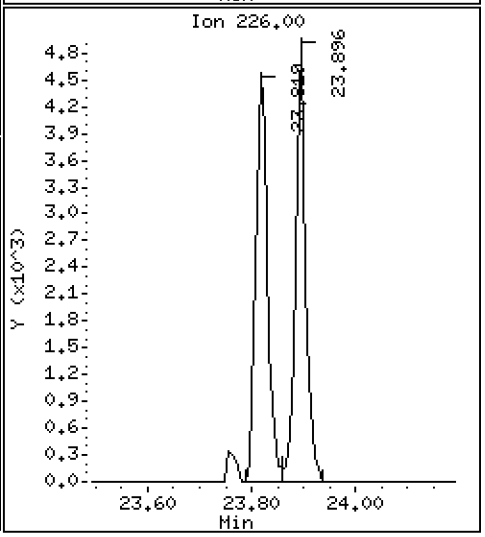


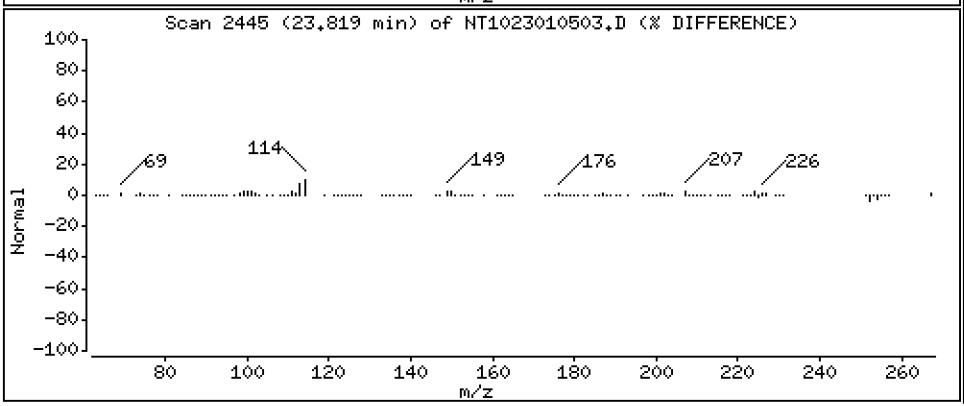












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

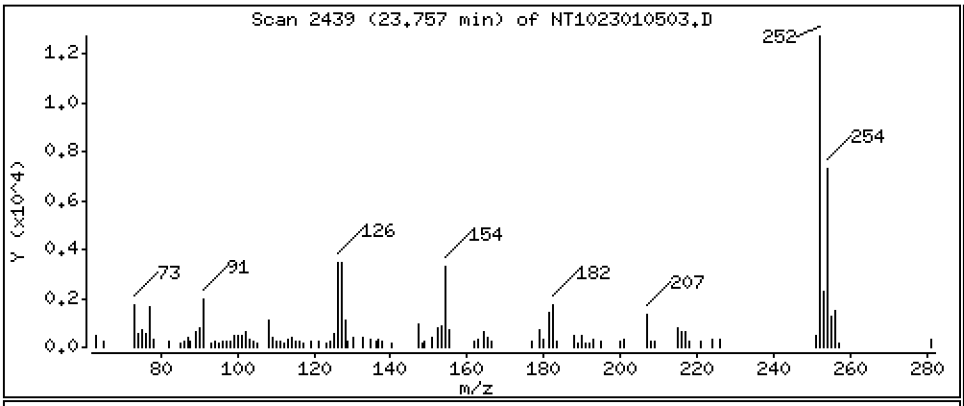
Operator: VTS

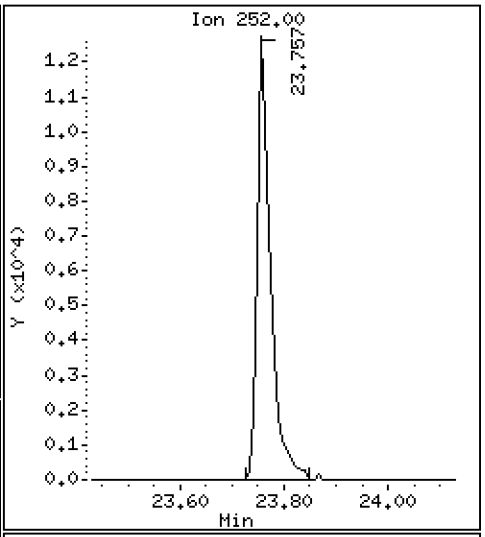
Column phase: ZB-5msi

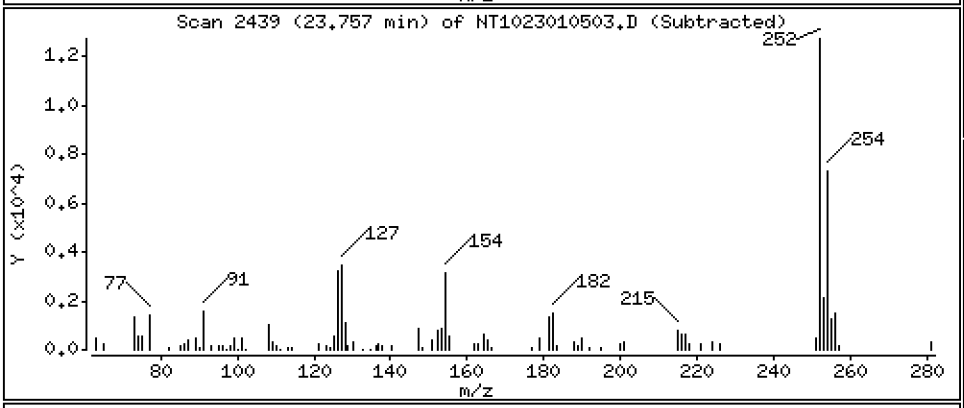
Column diameter: 0.25

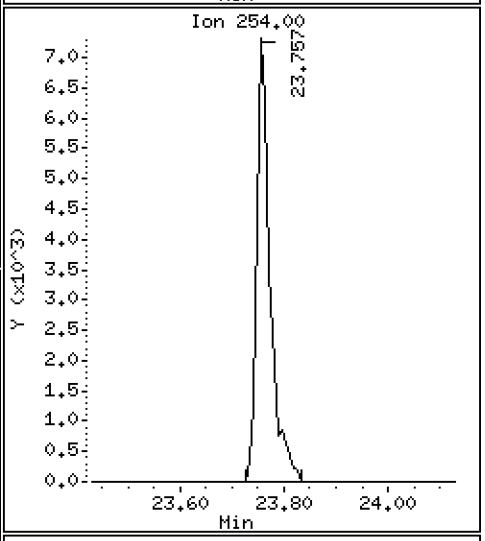
70 3,3'-Dichlorobenzidine

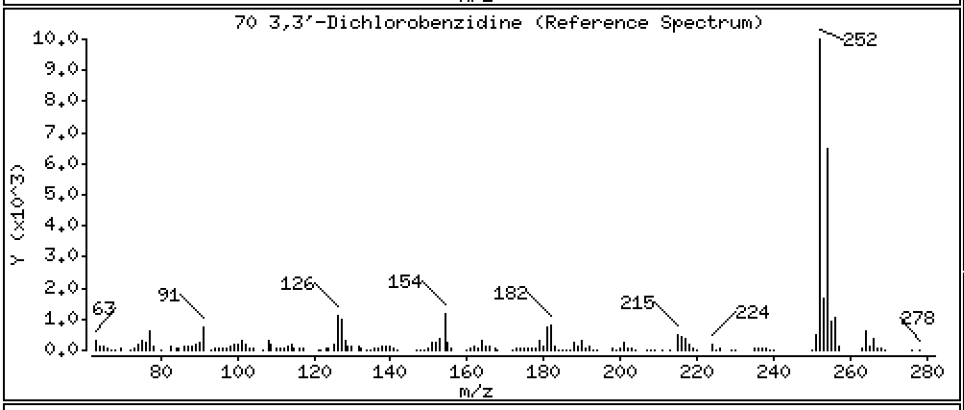
Concentration: 1.364 ug/mL

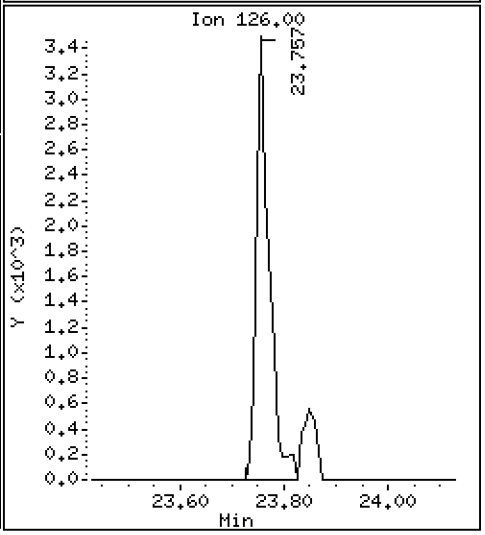


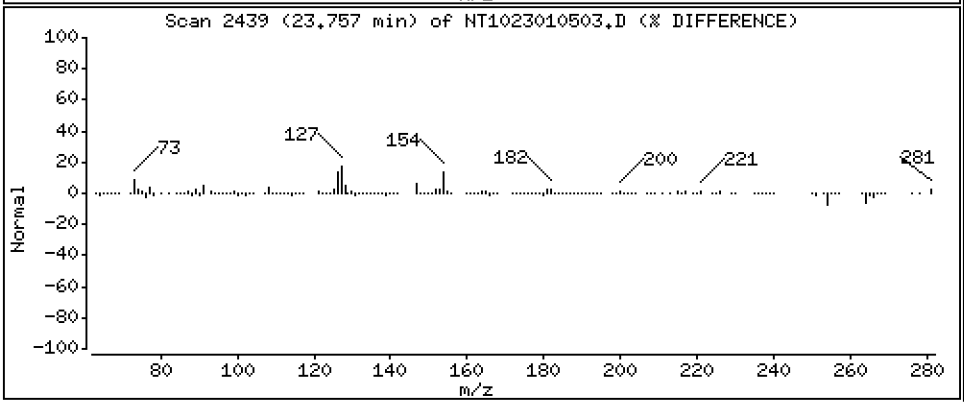












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

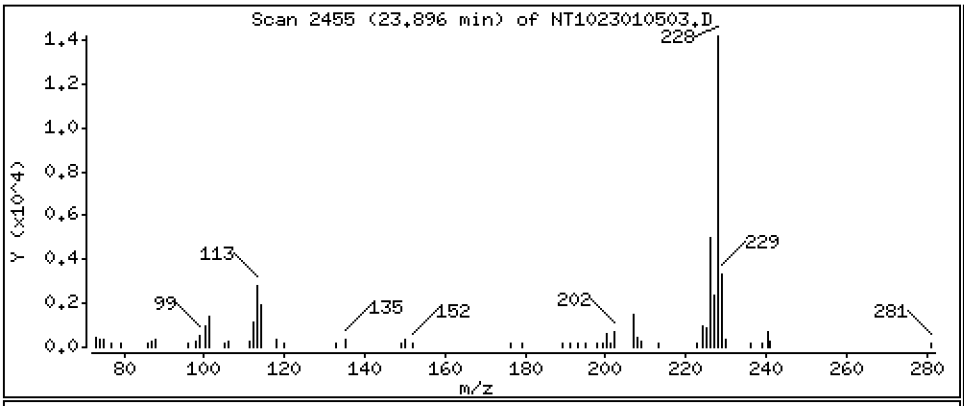
Operator: VTS

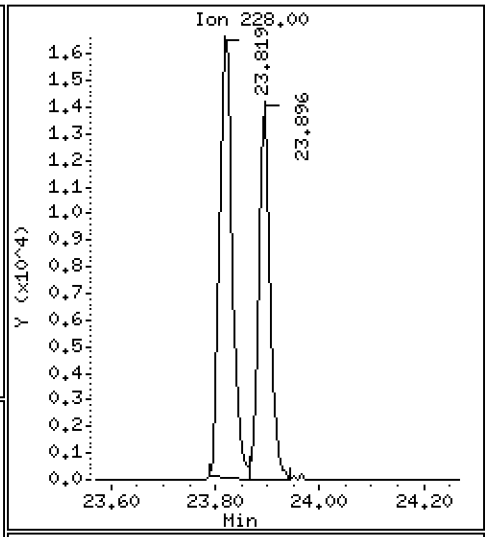
Column phase: ZB-5msi

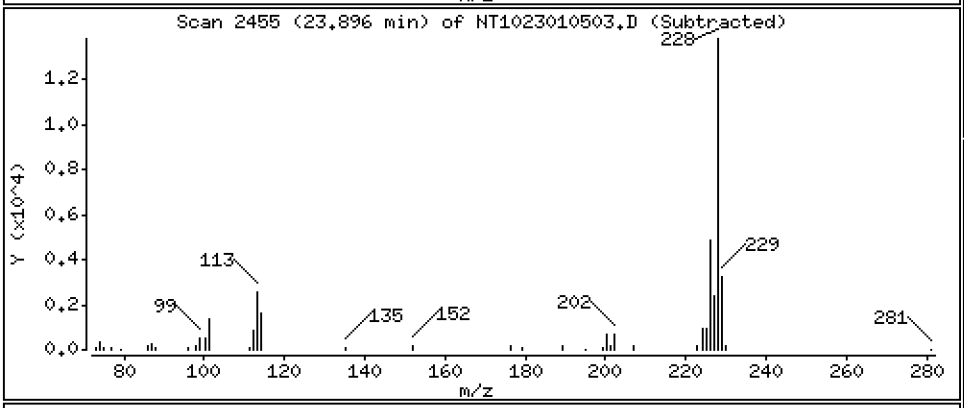
Column diameter: 0.25

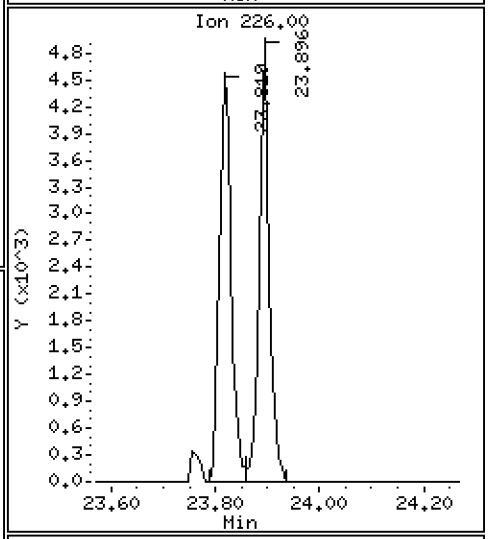
71 Chrysene

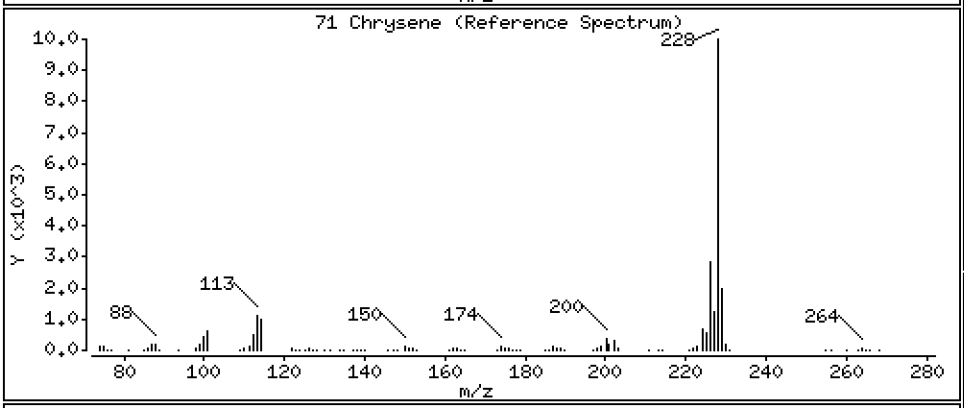
Concentration: 0.4883 ug/mL

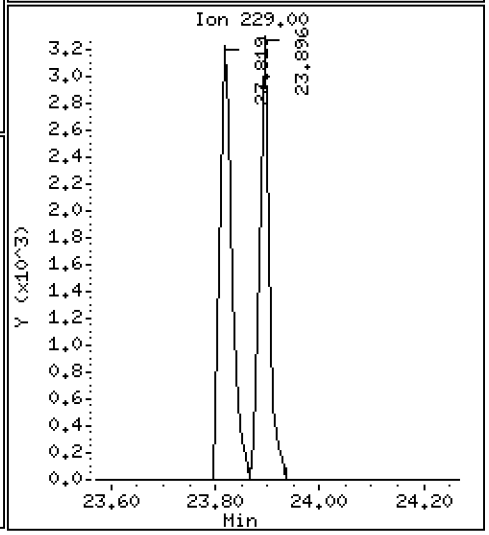


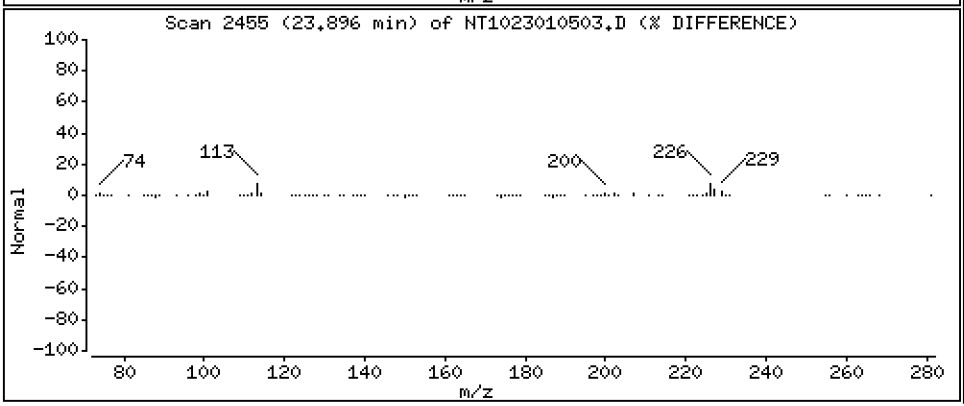












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

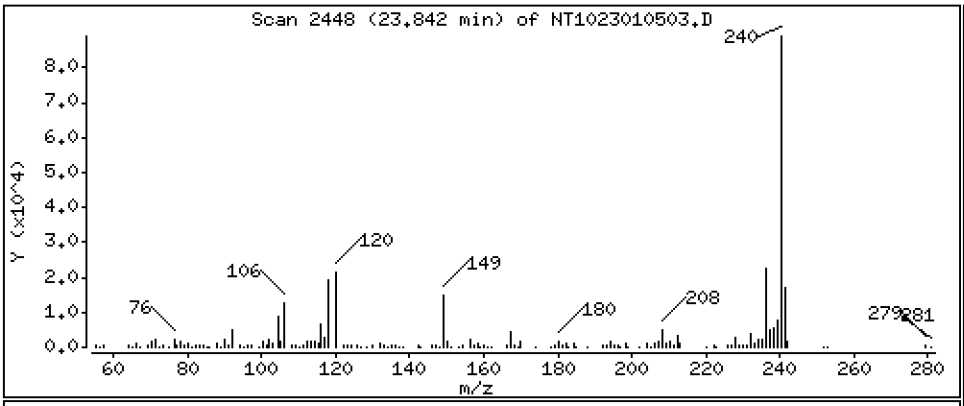
Operator: VTS

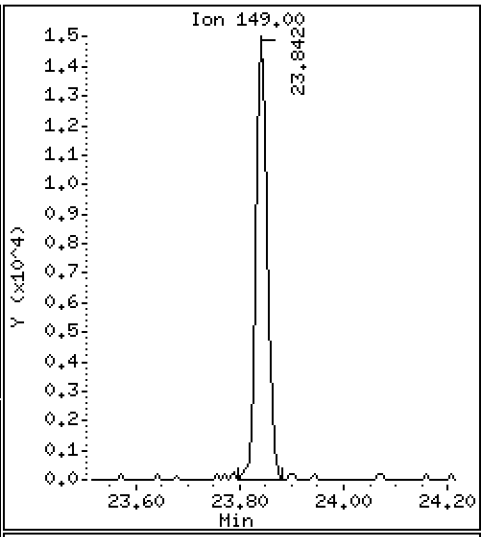
Column phase: ZB-5msi

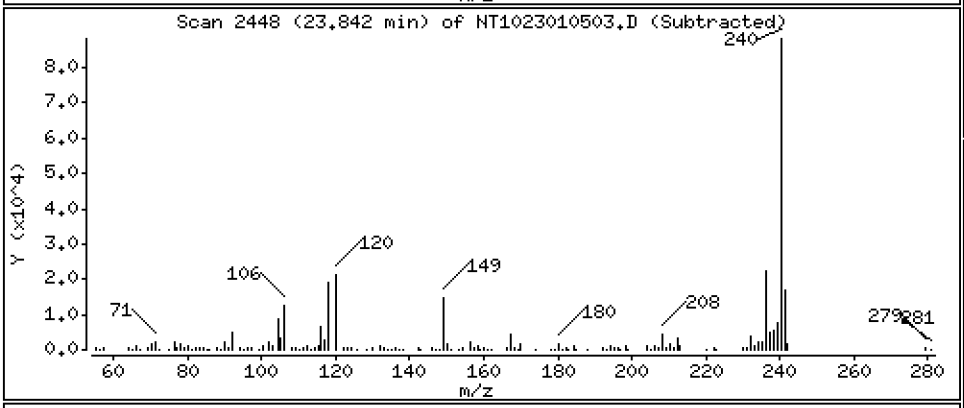
Column diameter: 0.25

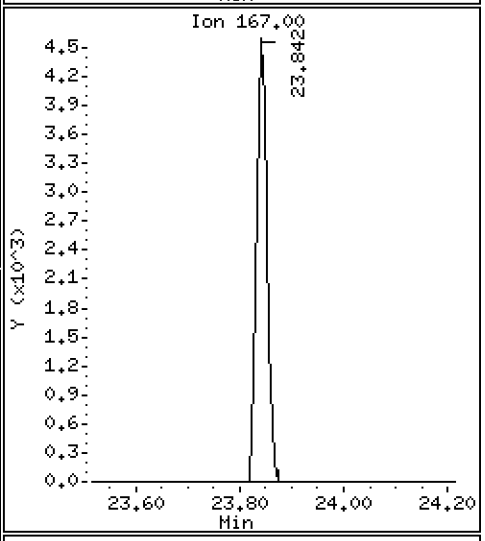
72 bis(2-Ethylhexyl)phthalate

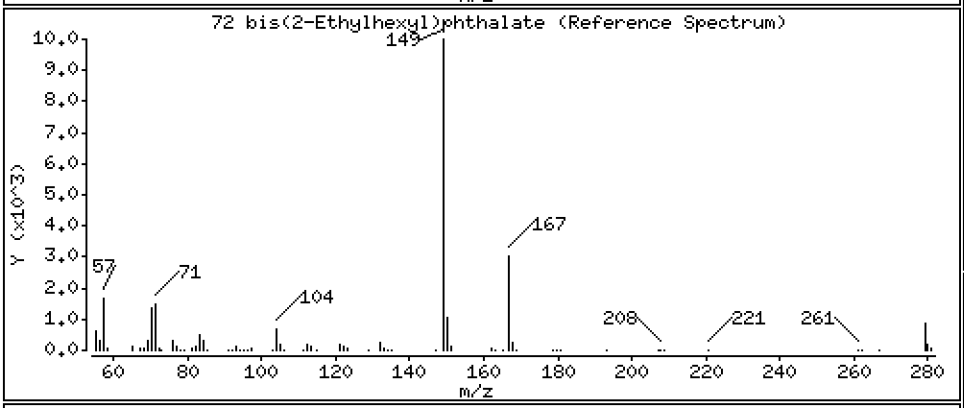
Concentration: 0.5030 ug/mL

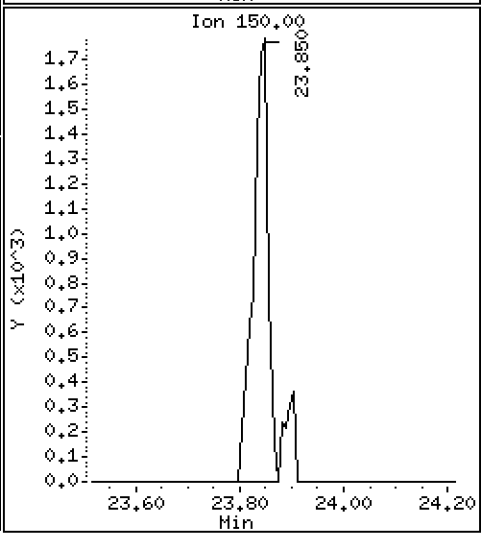


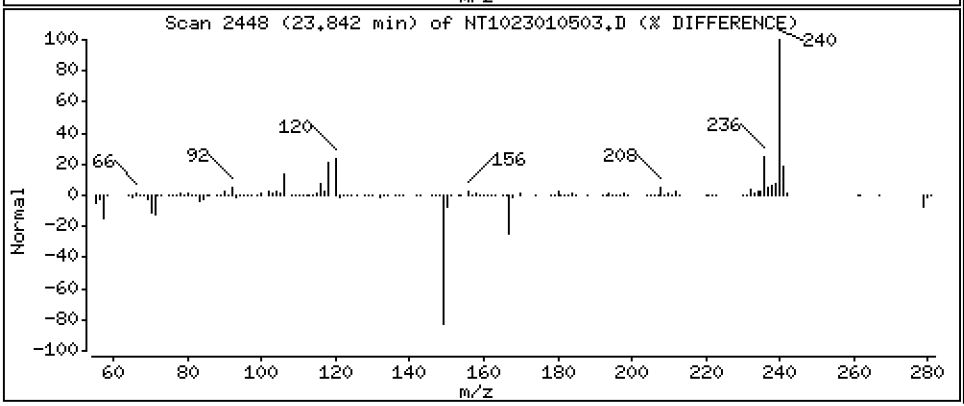












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

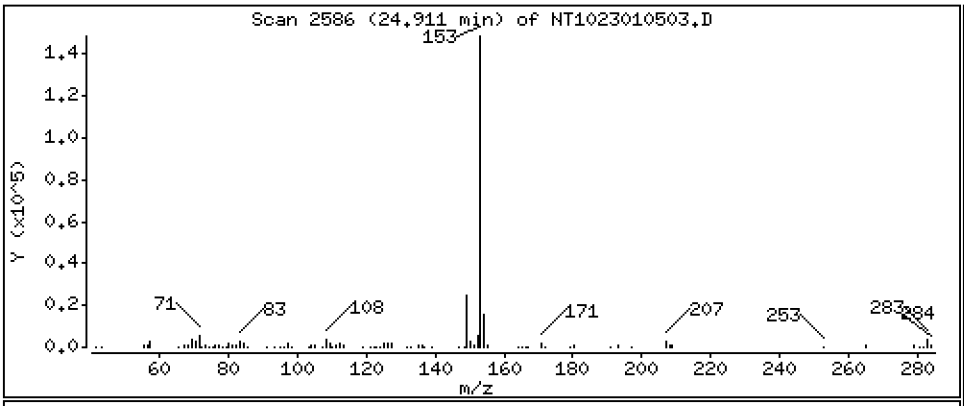
Operator: VTS

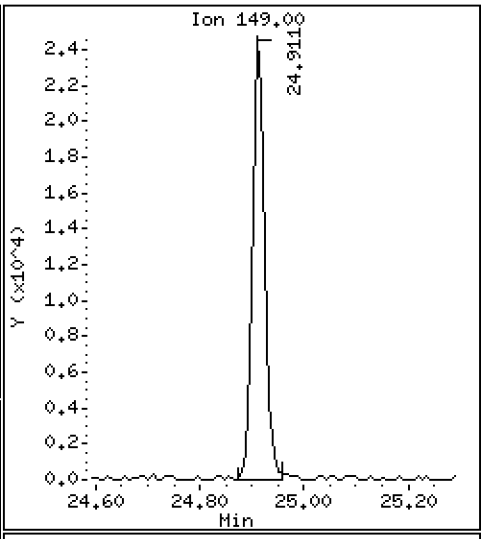
Column phase: ZB-5msi

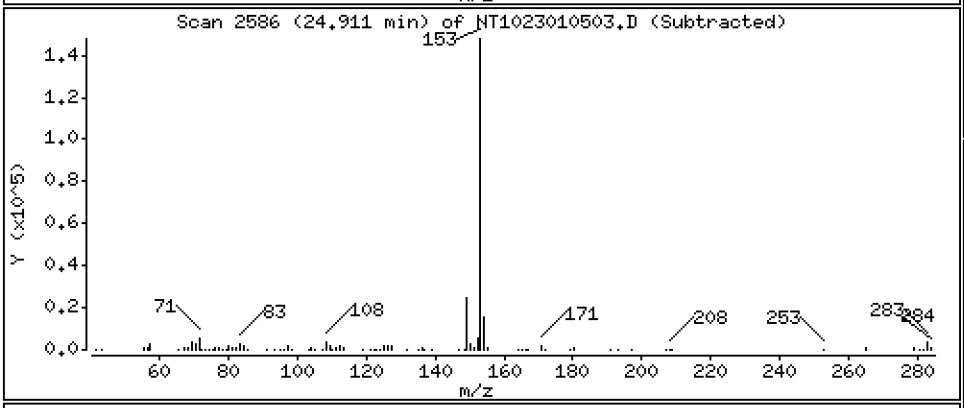
Column diameter: 0.25

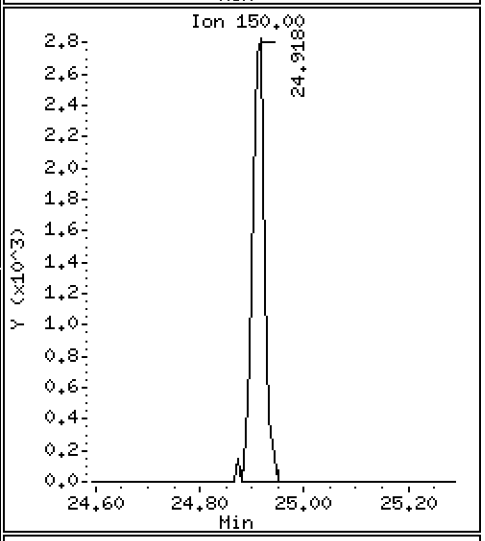
73 Di-n-octylphthalate

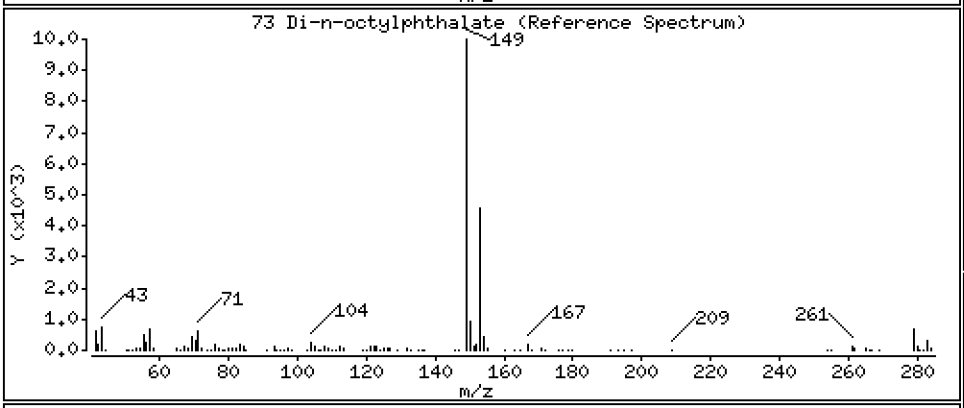
Concentration: 0.4960 ug/mL

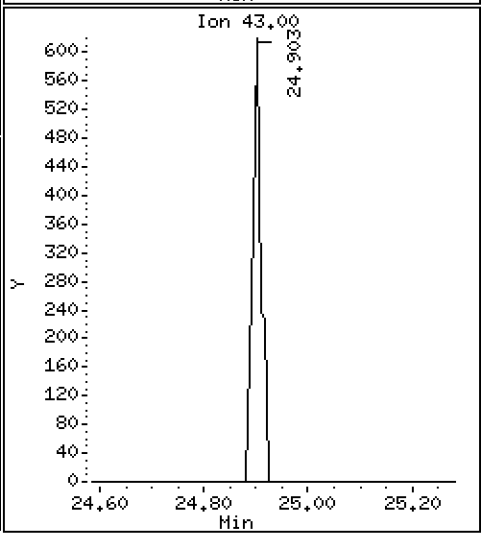


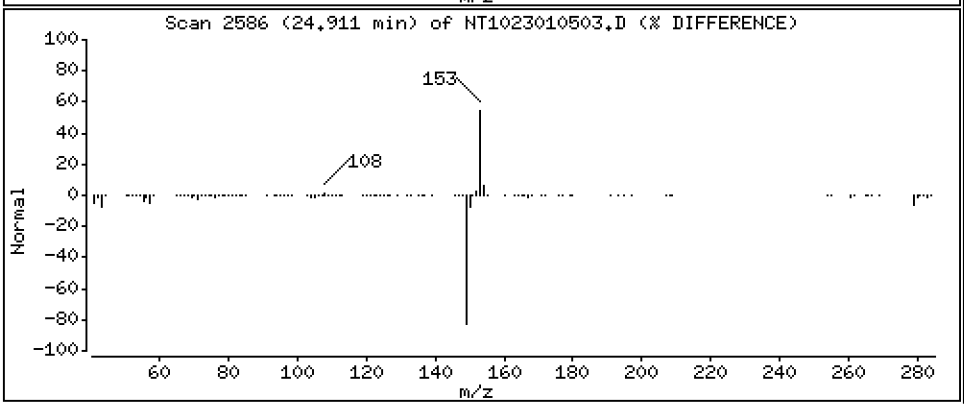












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

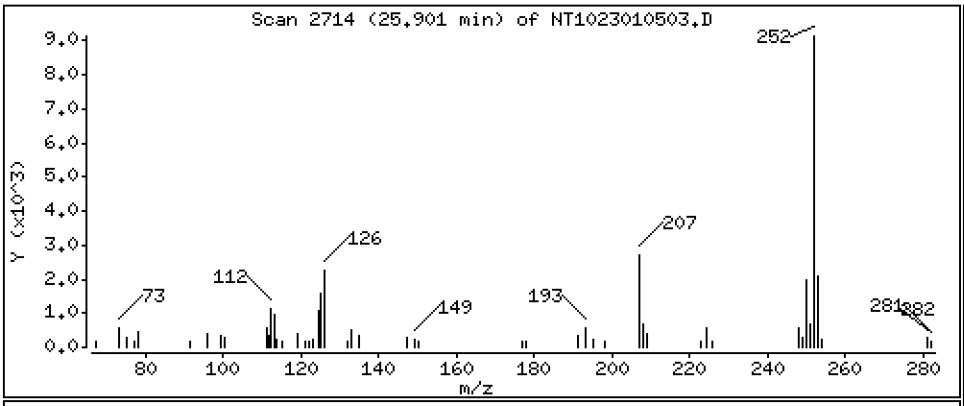
Operator: VTS

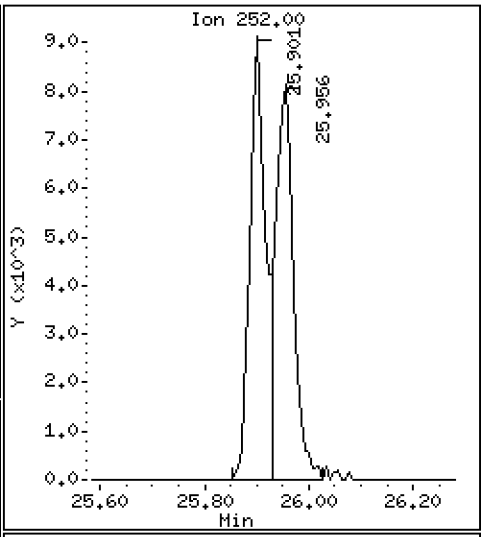
Column phase: ZB-5msi

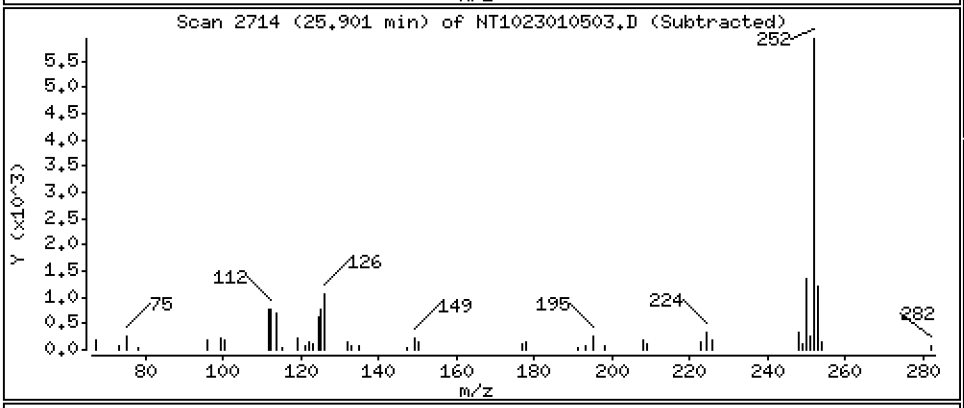
Column diameter: 0.25

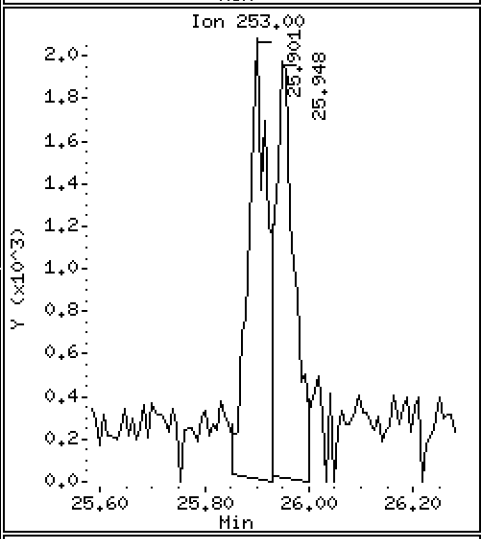
74 Benzo(b)fluoranthene

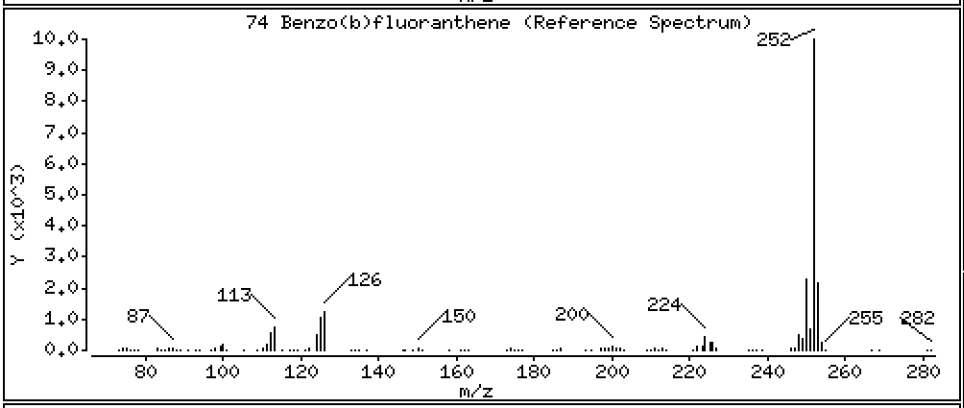
Concentration: 0.5077 ug/mL

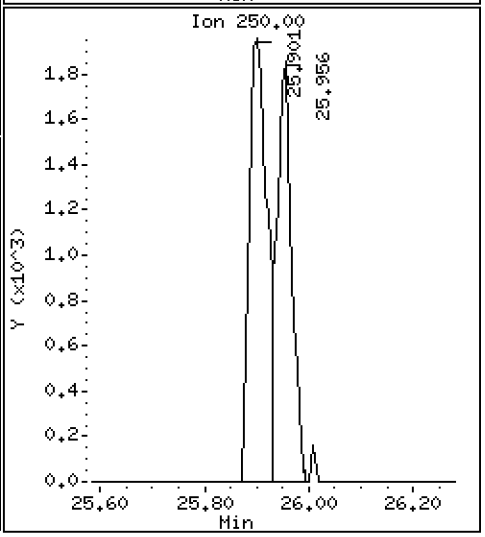


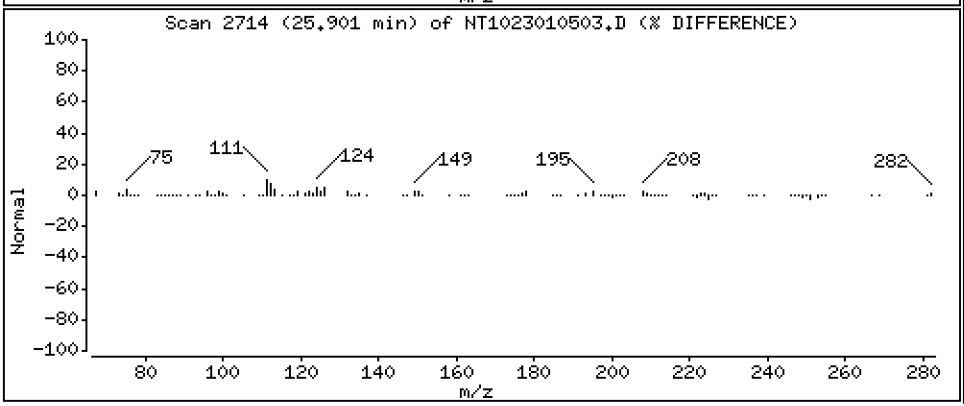












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

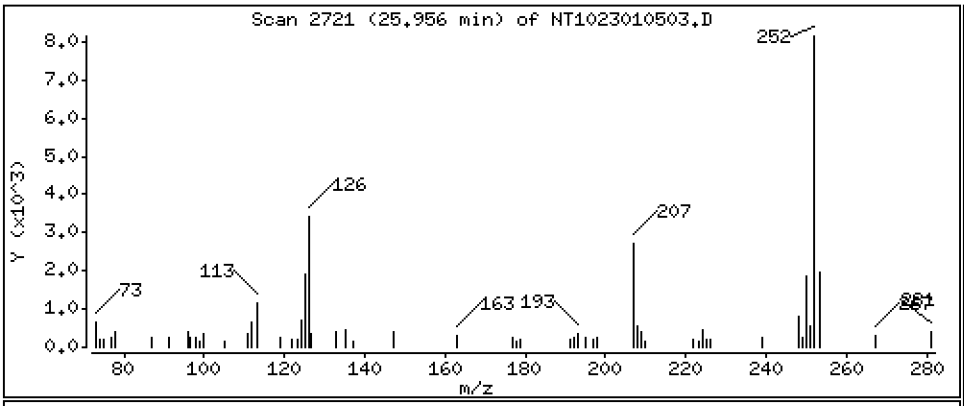
Operator: VTS

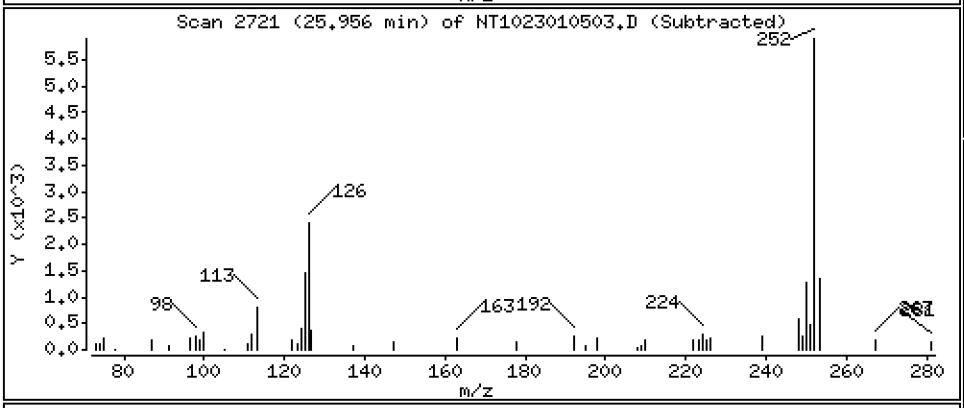
Column phase: ZB-5msi

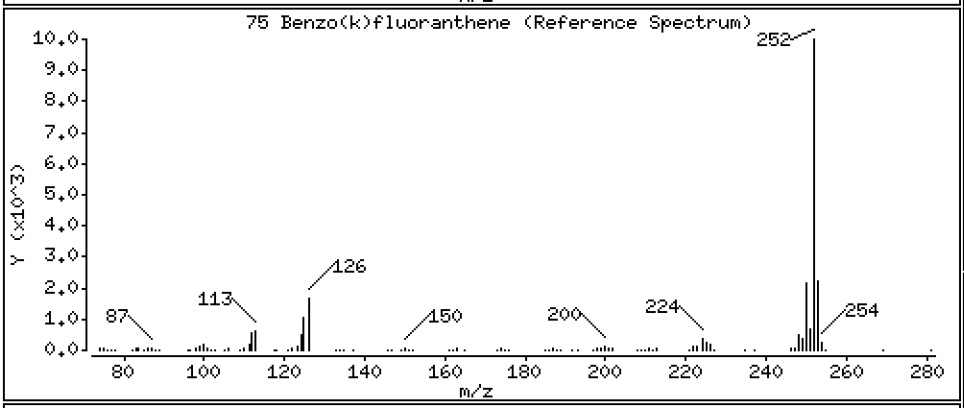
Column diameter: 0.25

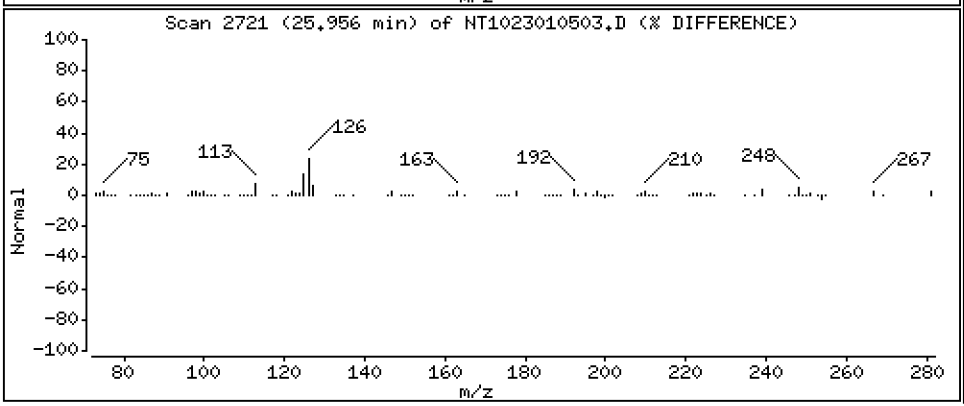
75 Benzo(k)fluoranthene

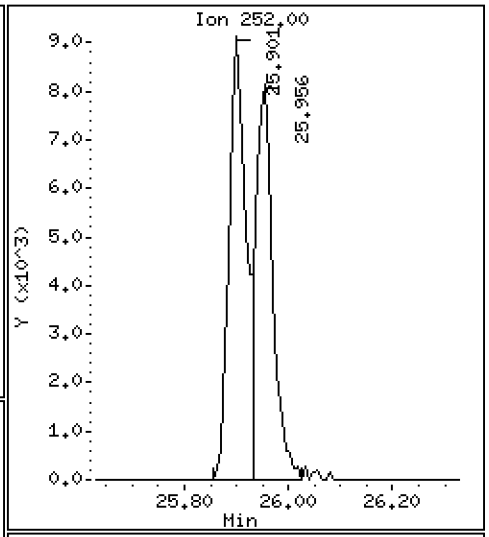
Concentration: 0.4826 ug/mL

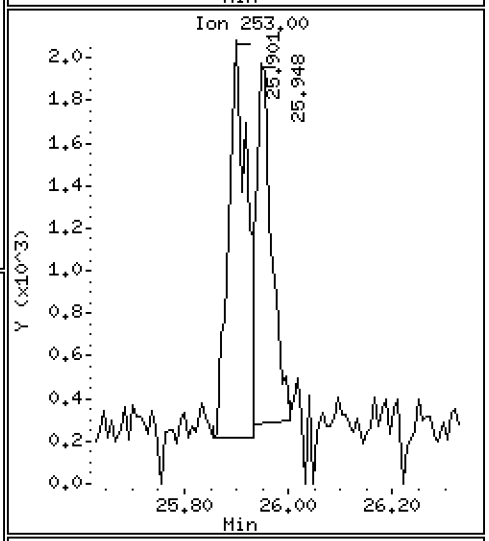


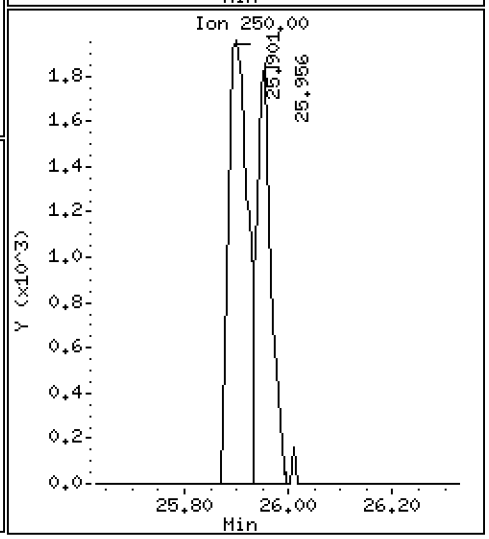












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

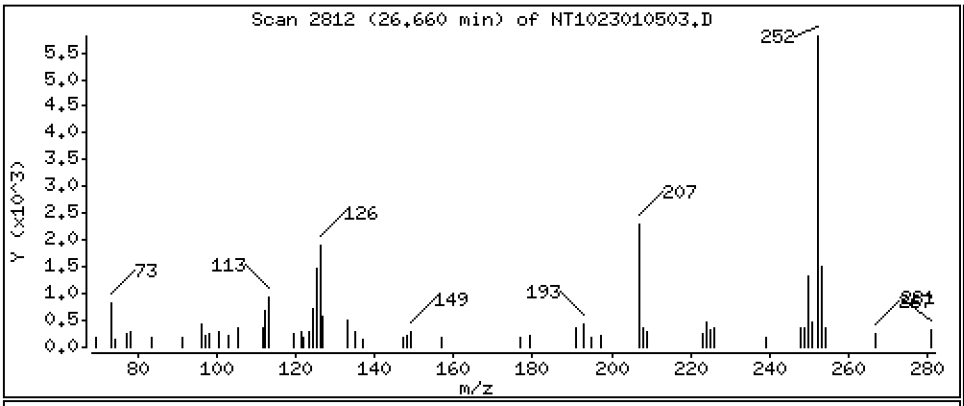
Operator: VTS

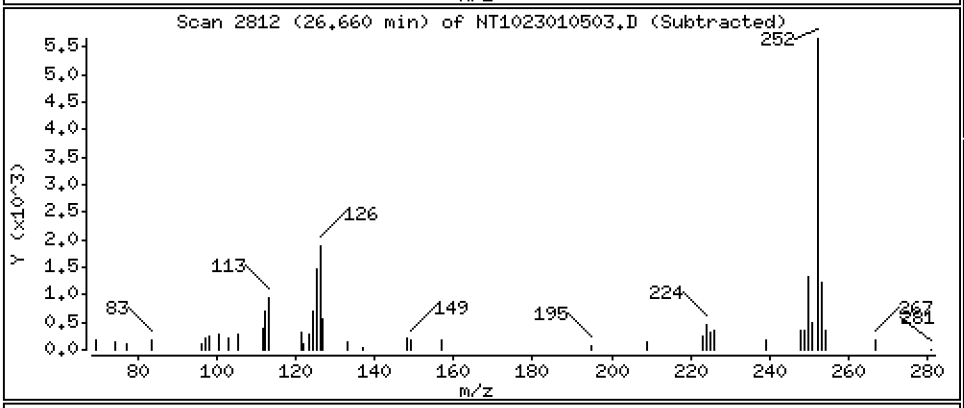
Column phase: ZB-5msi

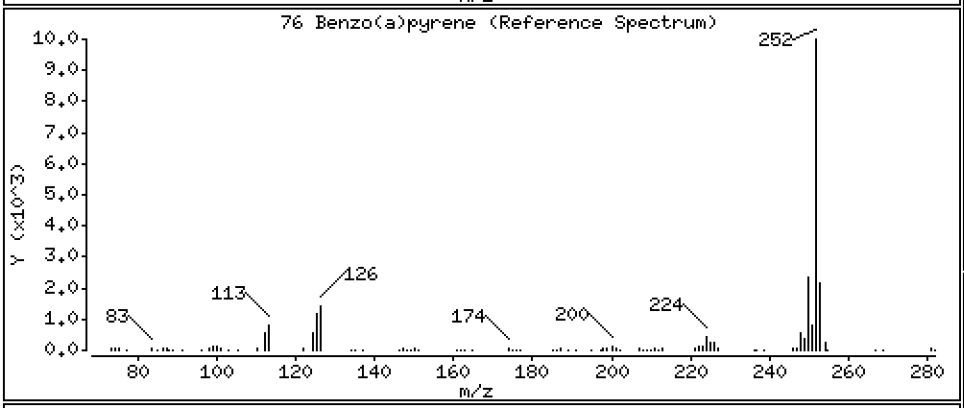
Column diameter: 0.25

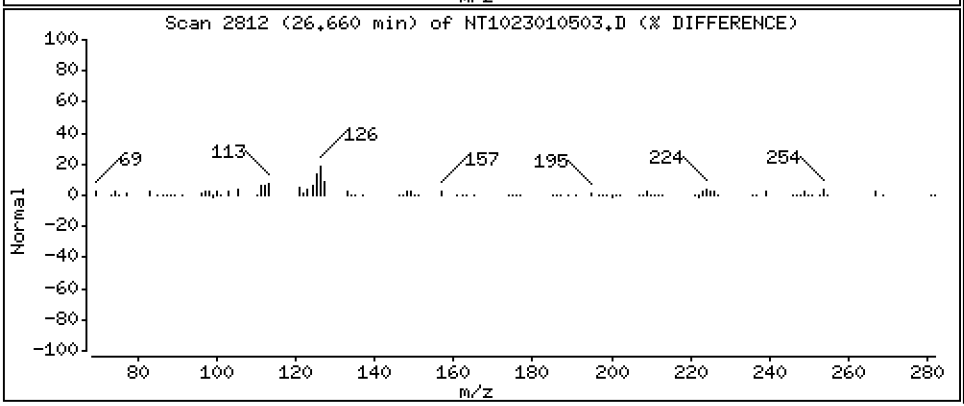
76 Benzo(a)pyrene

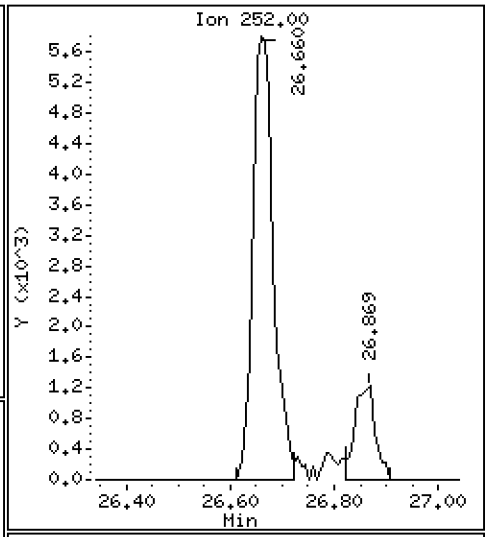
Concentration: 0.4619 ug/mL

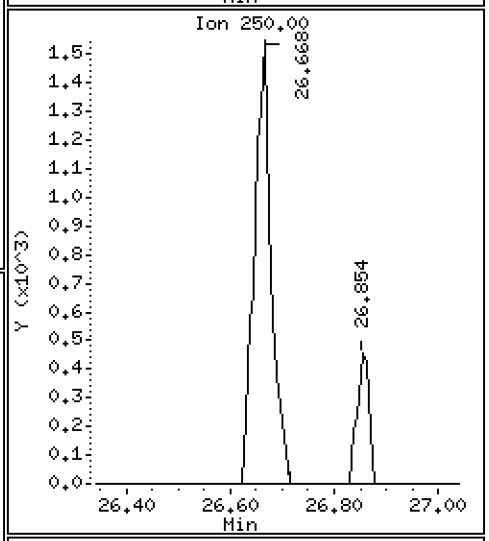


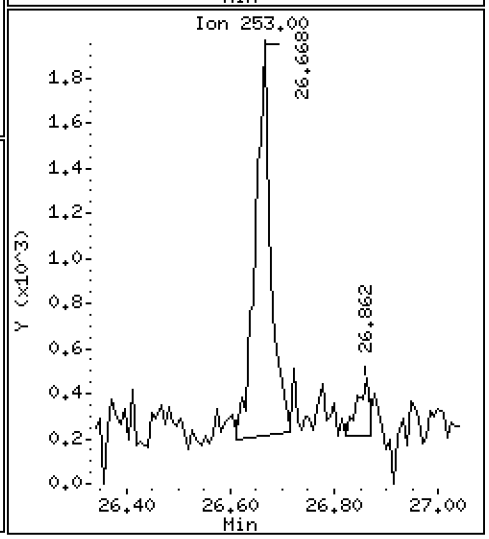












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

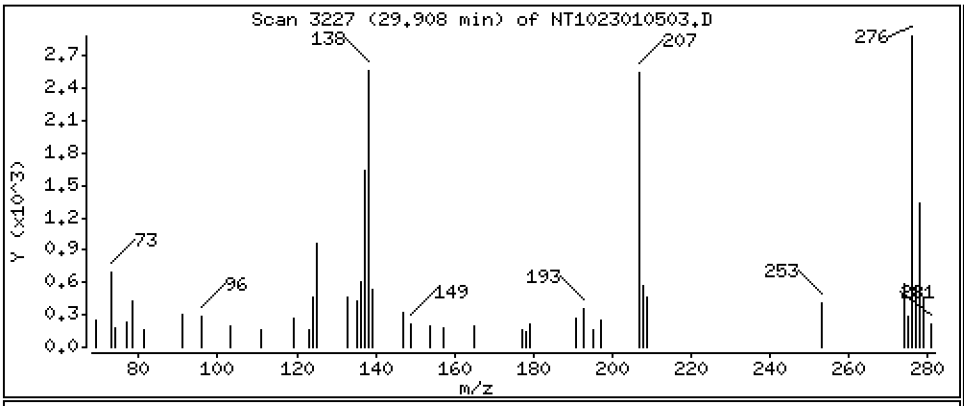
Operator: VTS

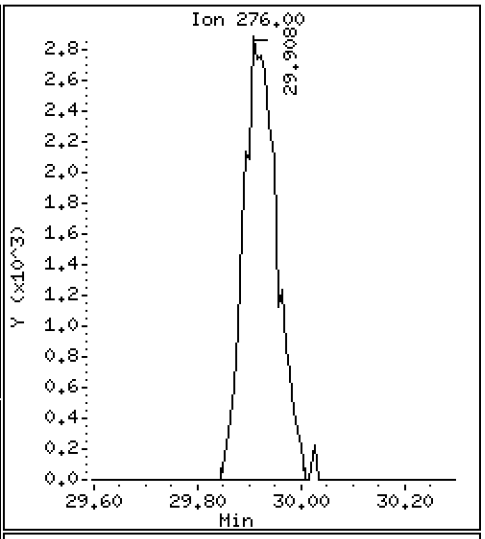
Column phase: ZB-5msi

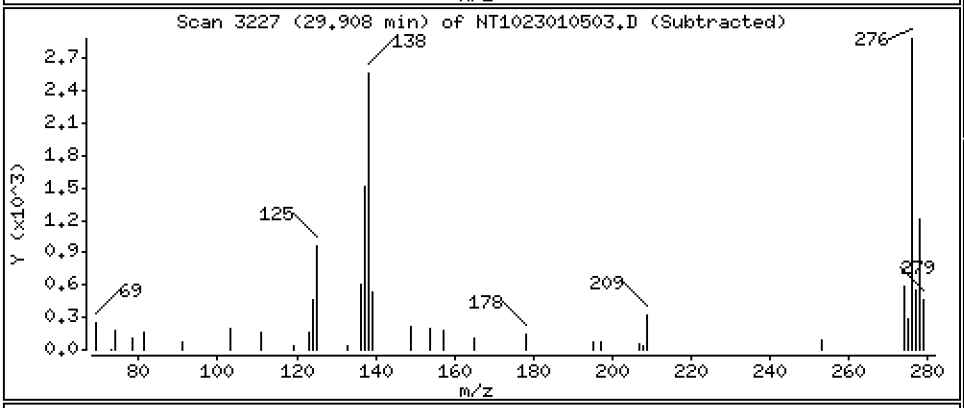
Column diameter: 0.25

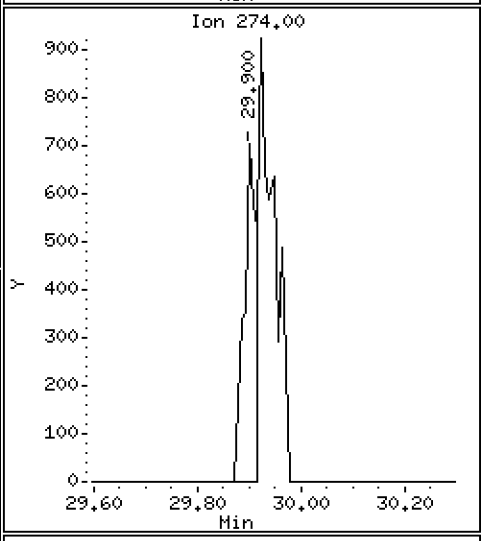
78 Indeno(1,2,3-cd)pyrene

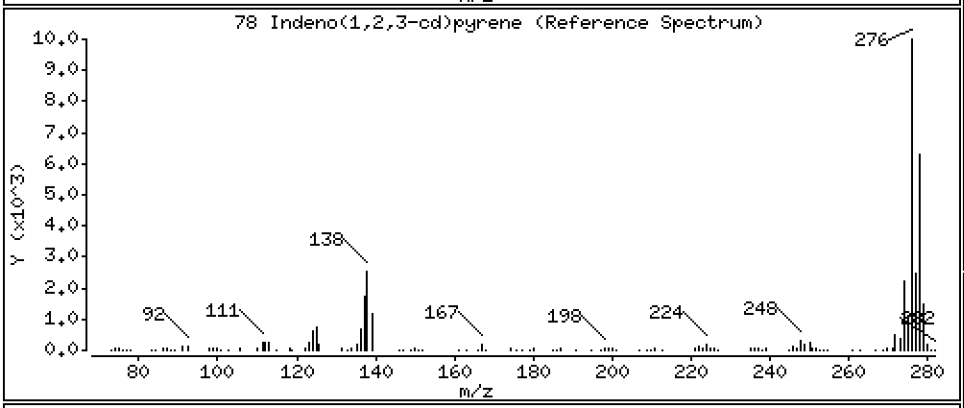
Concentration: 0.4255 ug/mL

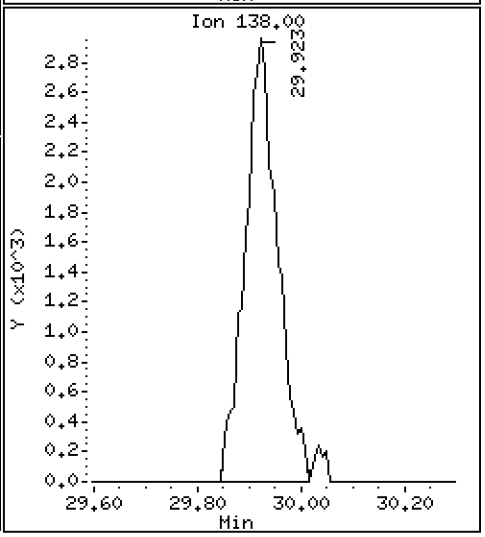


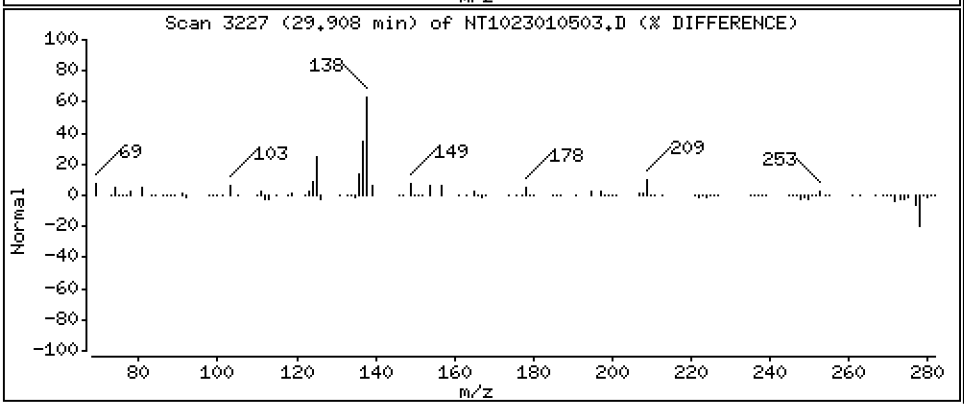












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

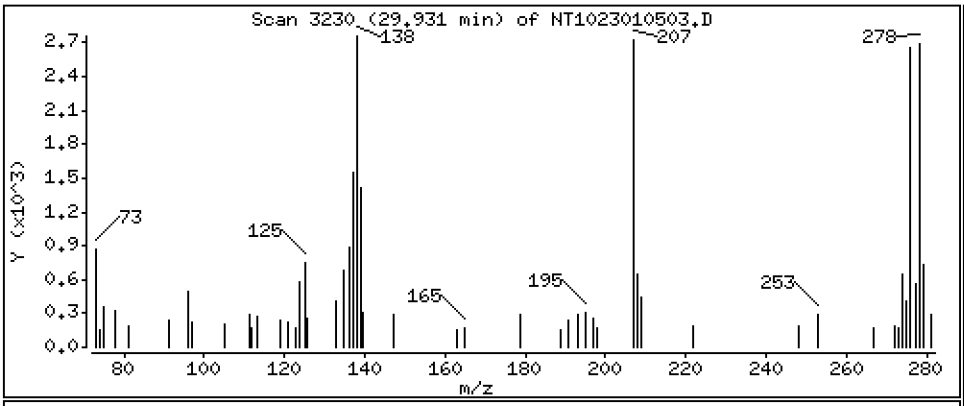
Operator: VTS

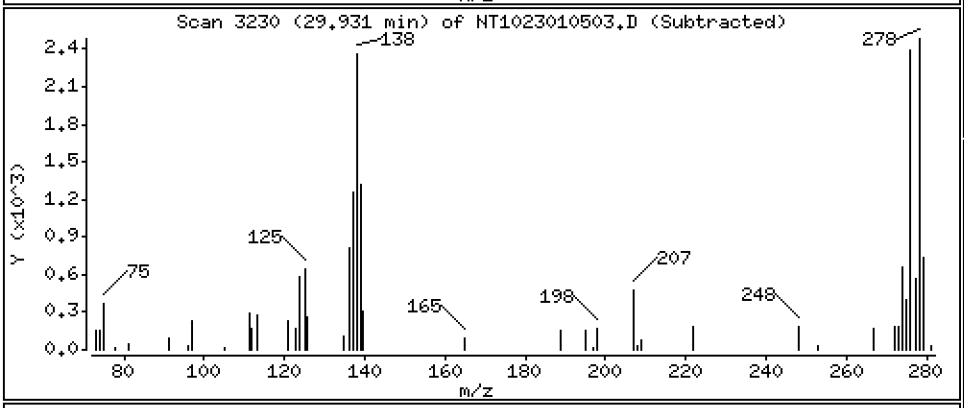
Column phase: ZB-5msi

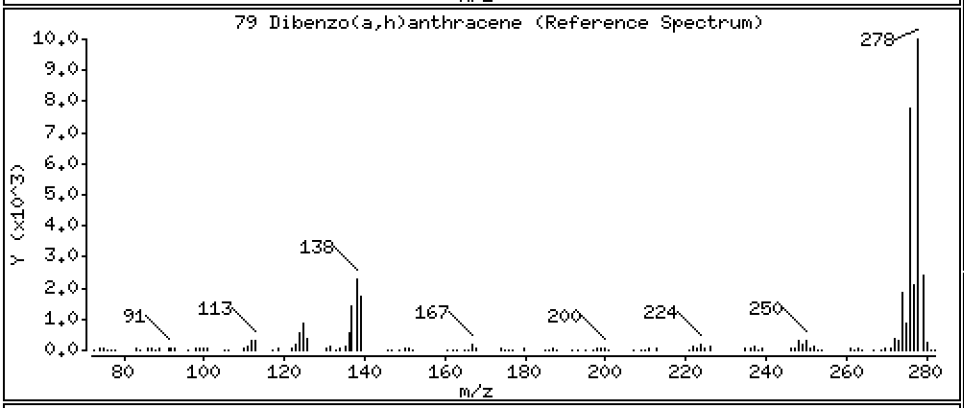
Column diameter: 0.25

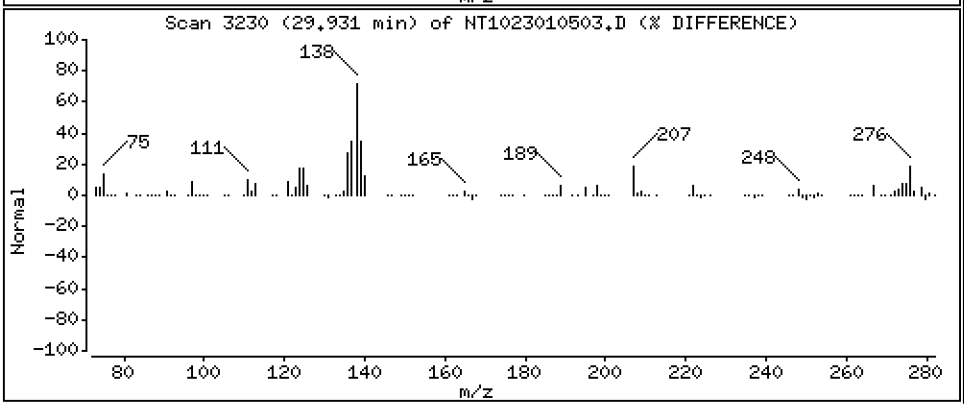
79 Dibenzo(a,h)anthracene

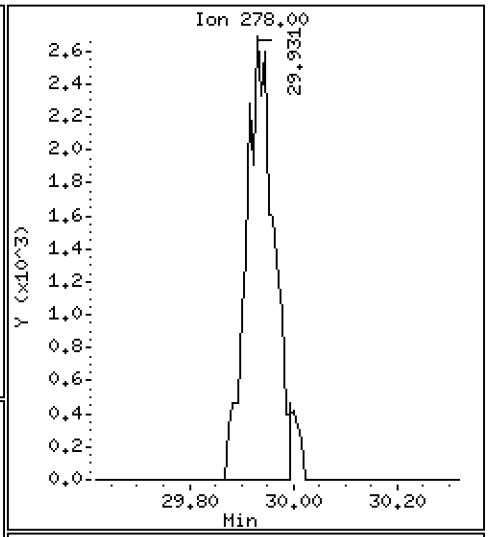
Concentration: 0.4147 ug/mL

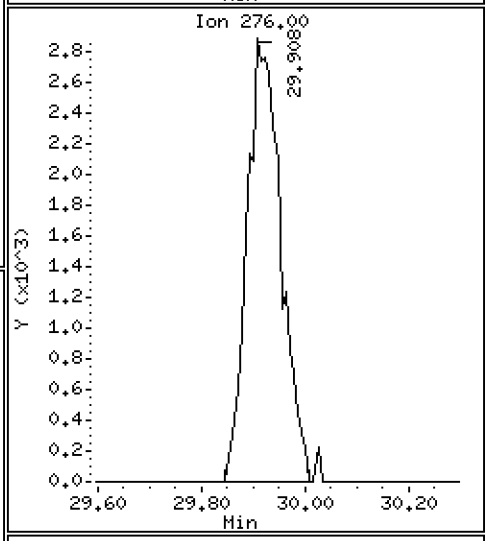


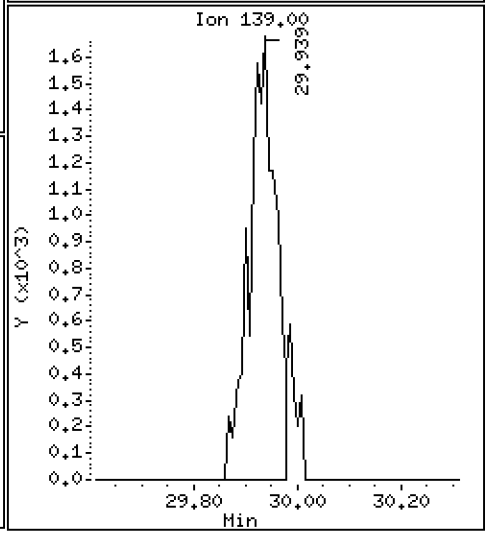












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

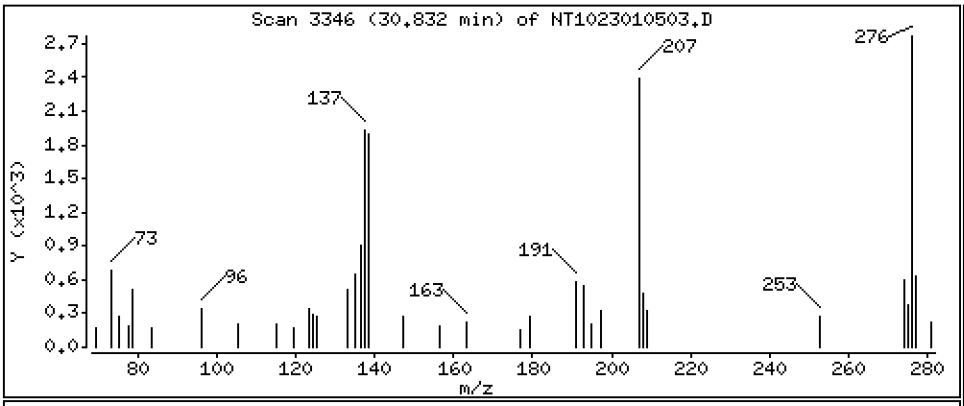
Operator: VTS

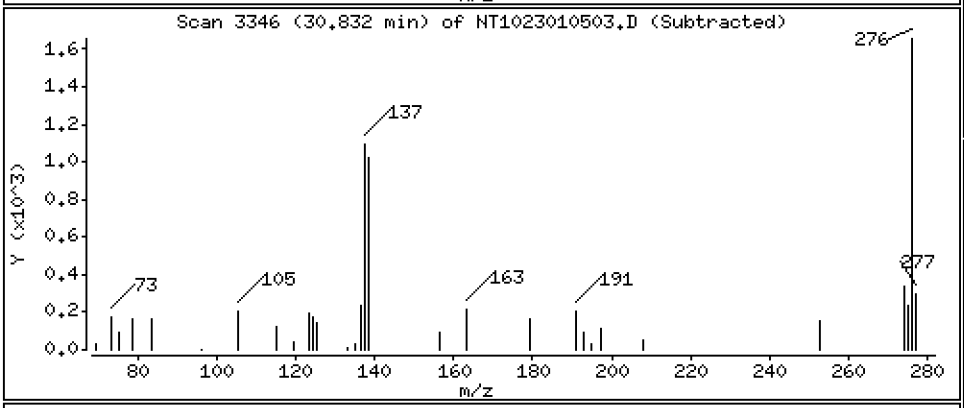
Column phase: ZB-5msi

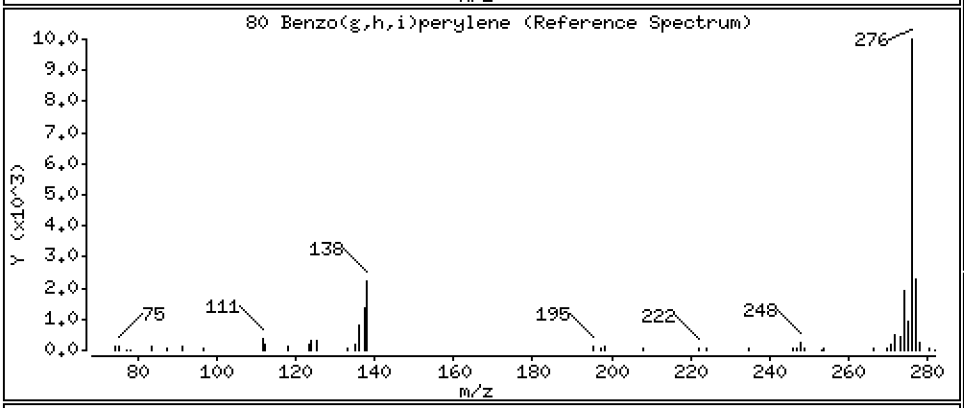
Column diameter: 0.25

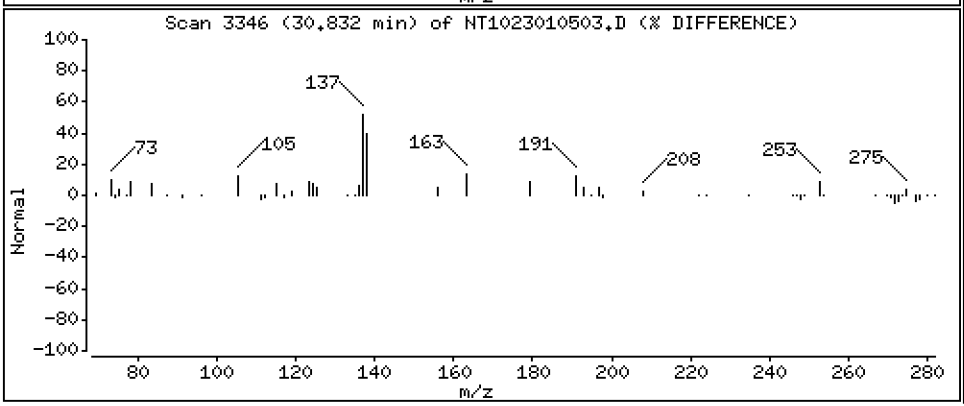
80 Benzo(g,h,i)perylene

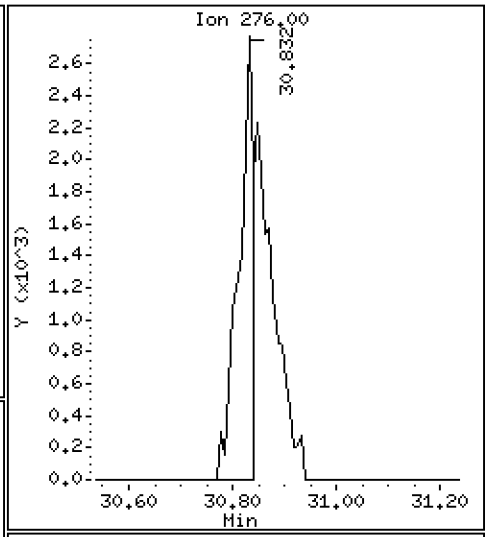
Concentration: 0.2099 ug/mL

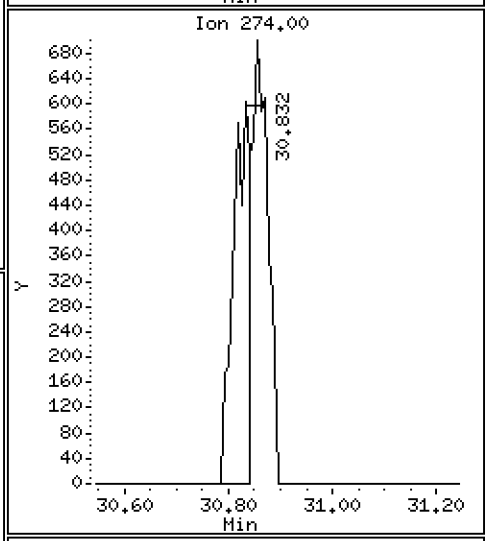


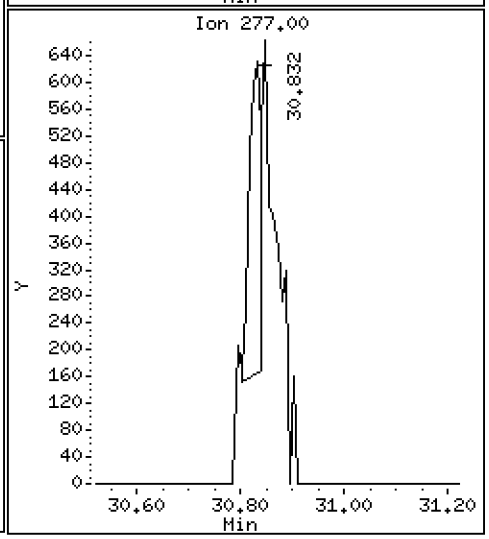












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

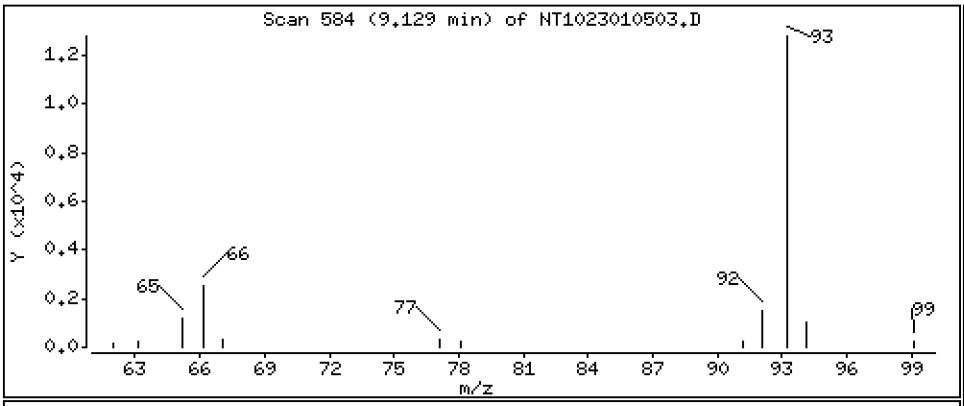
Operator: VTS

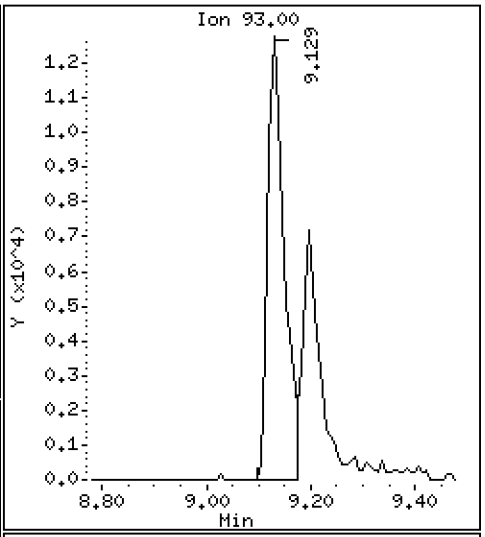
Column phase: ZB-5msi

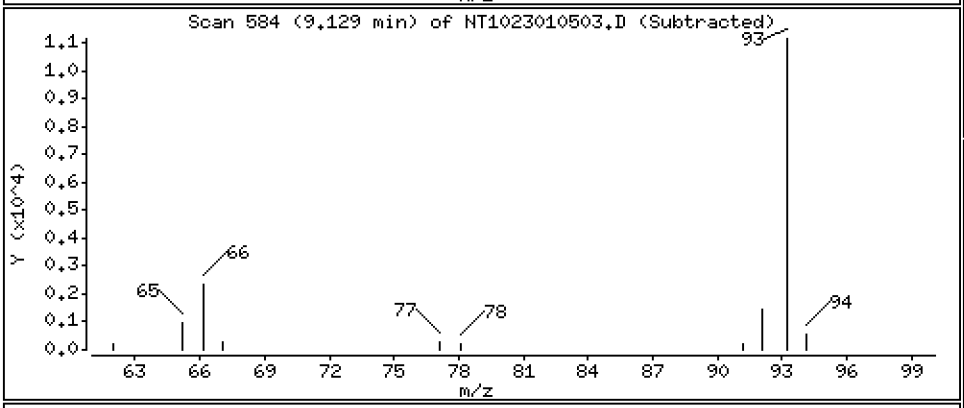
Column diameter: 0.25

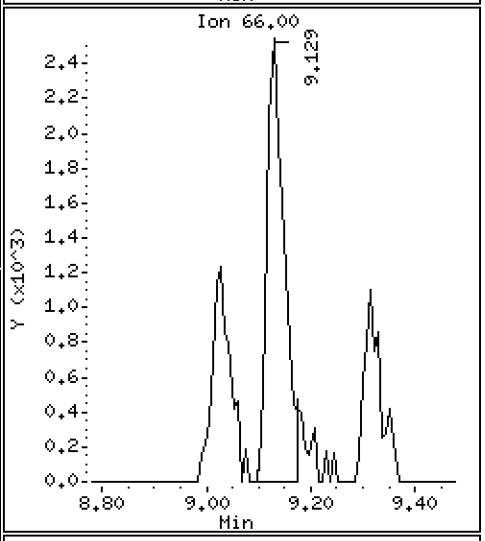
91 Aniline

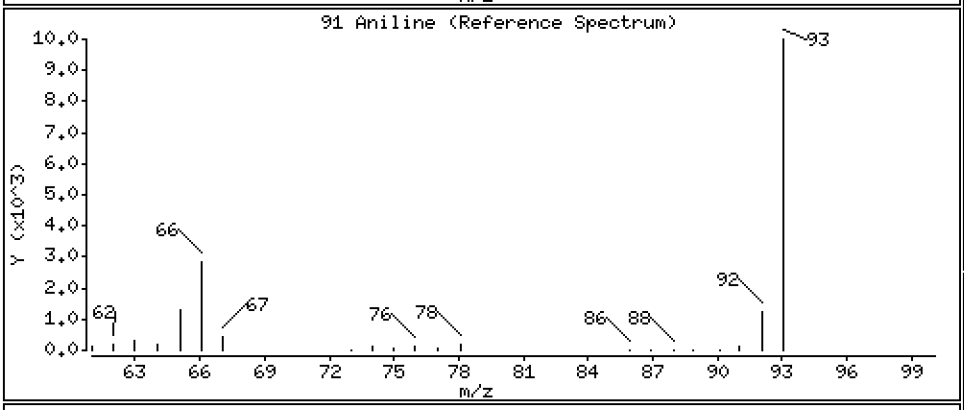
Concentration: 0.8295 ug/mL

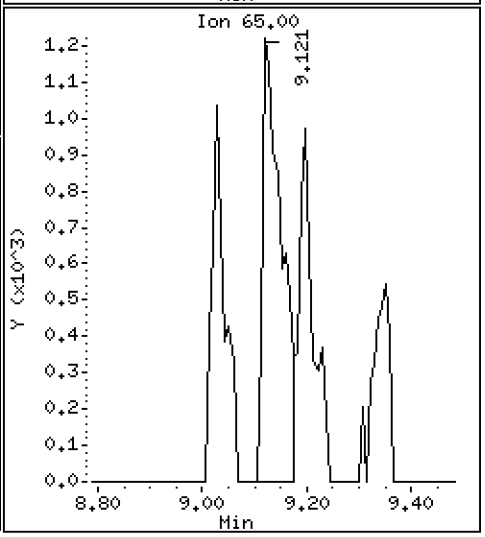


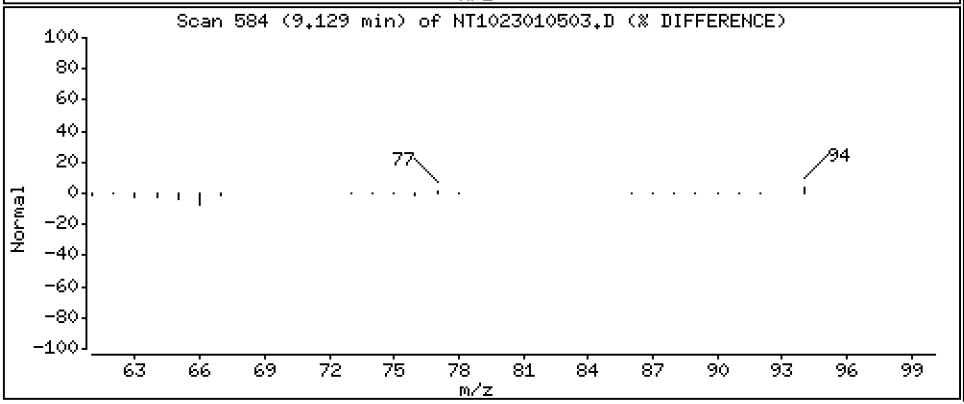












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

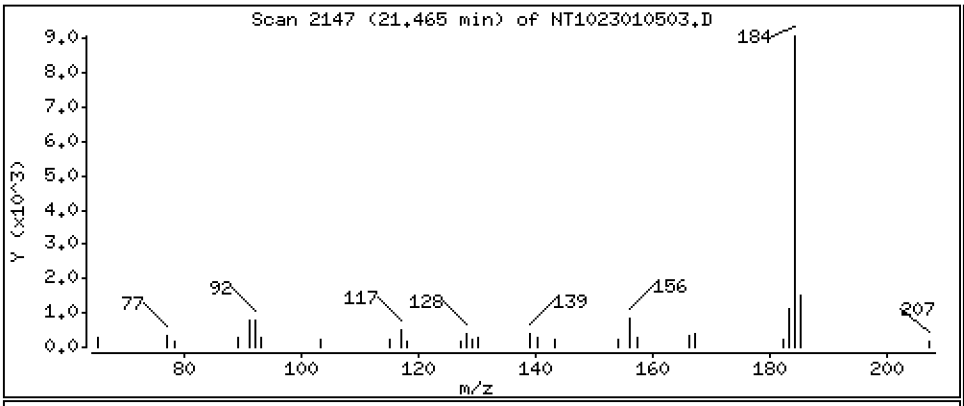
Operator: VTS

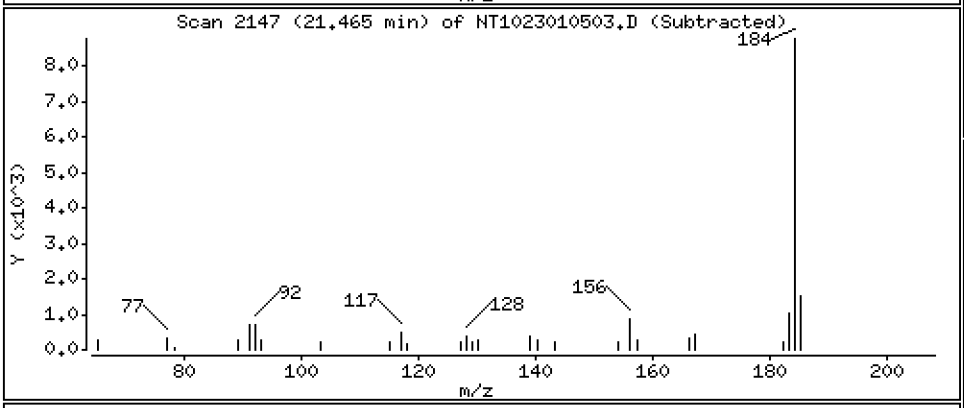
Column phase: ZB-5msi

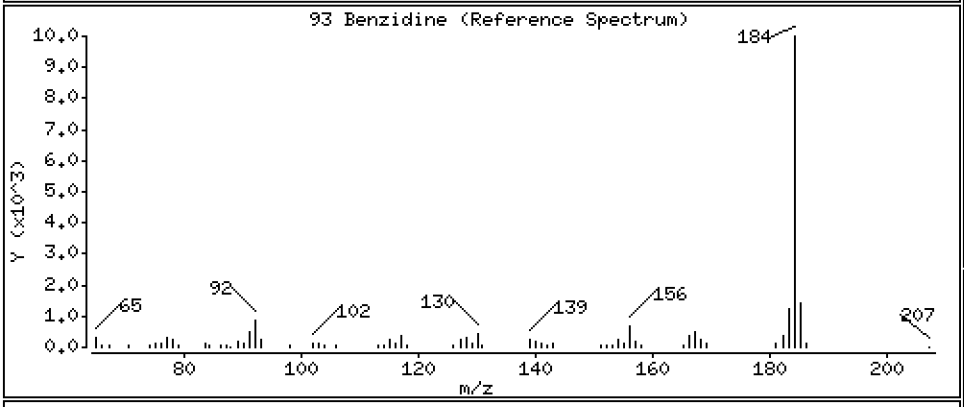
Column diameter: 0.25

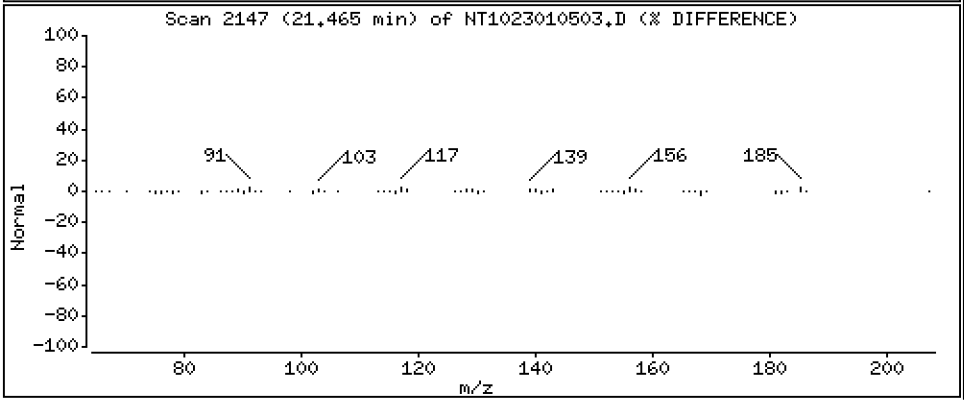
93 Benzidine

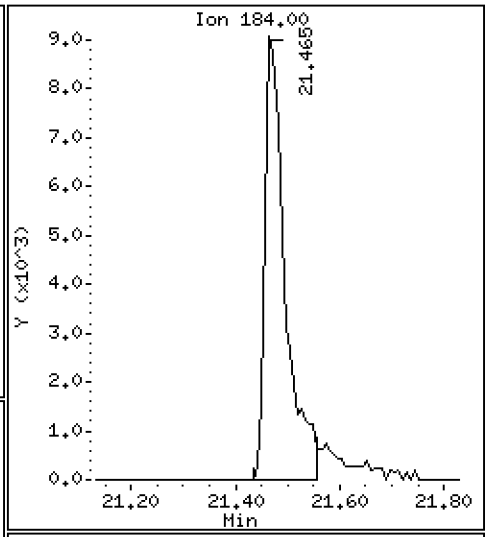
Concentration: 0.7207 ug/mL

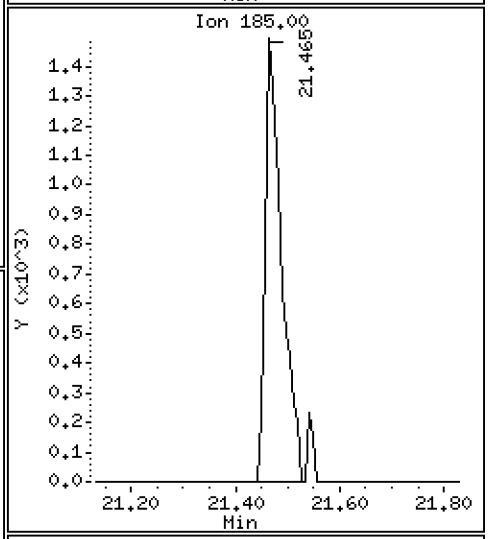


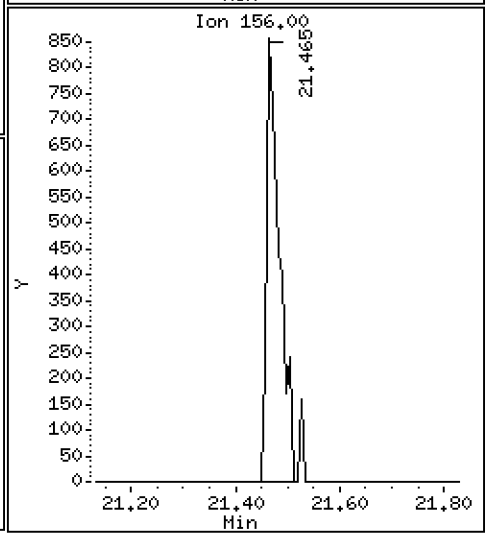












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

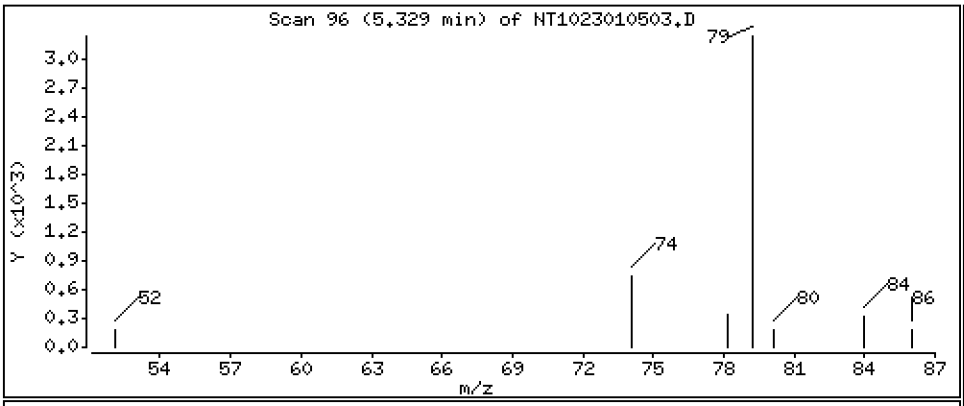
Operator: VTS

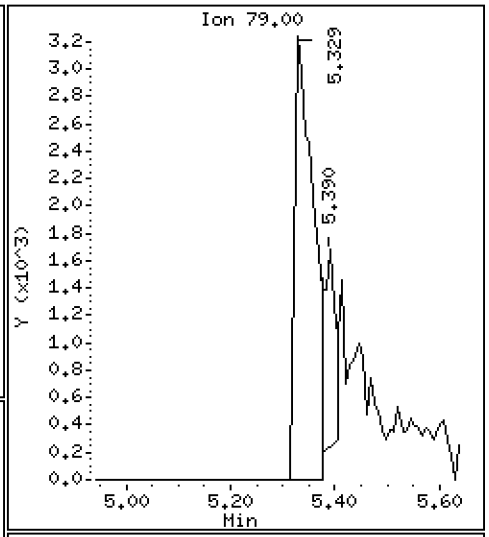
Column phase: ZB-5msi

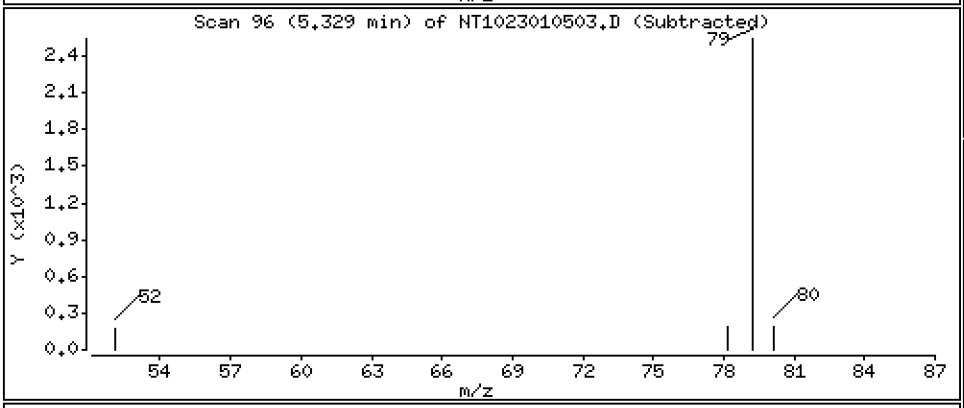
Column diameter: 0.25

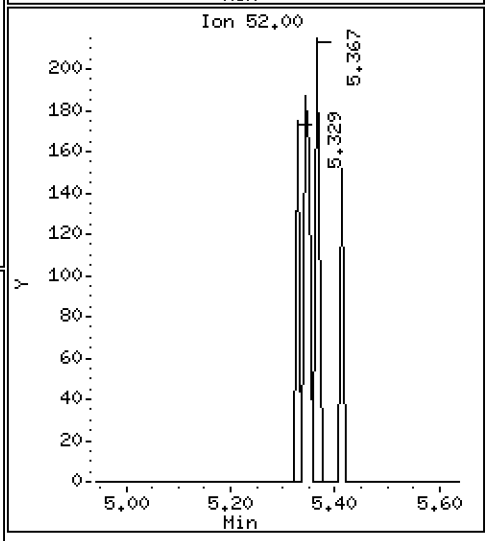
103 Pyridine

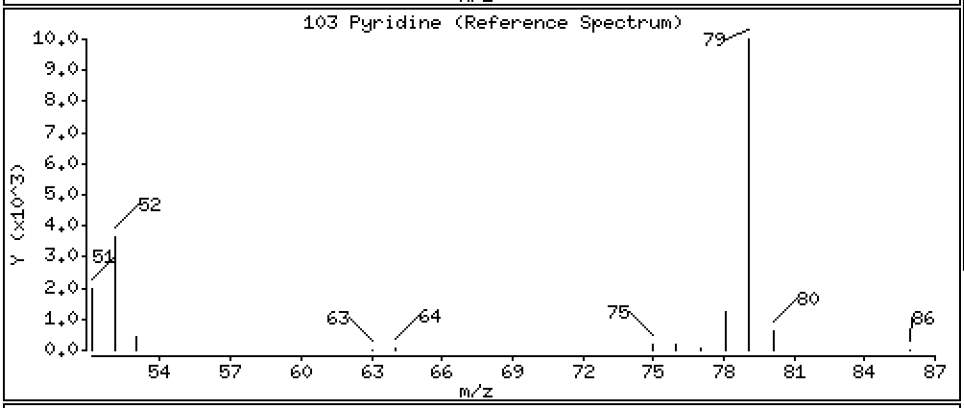
Concentration: 0.1661 ug/mL

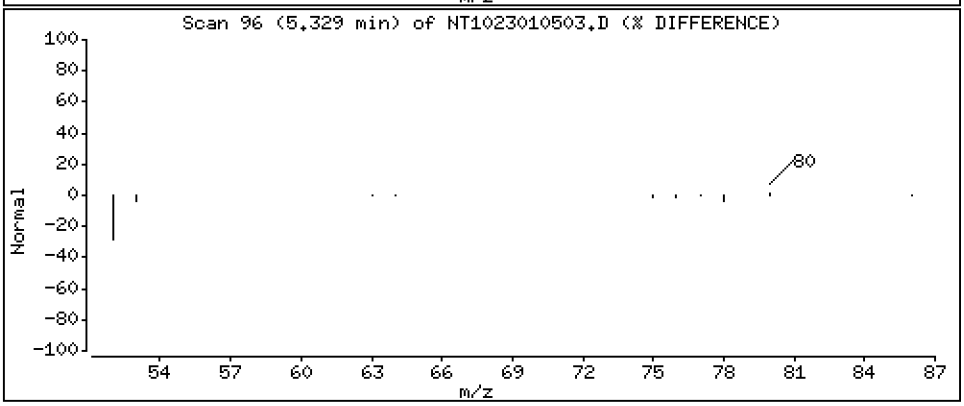












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

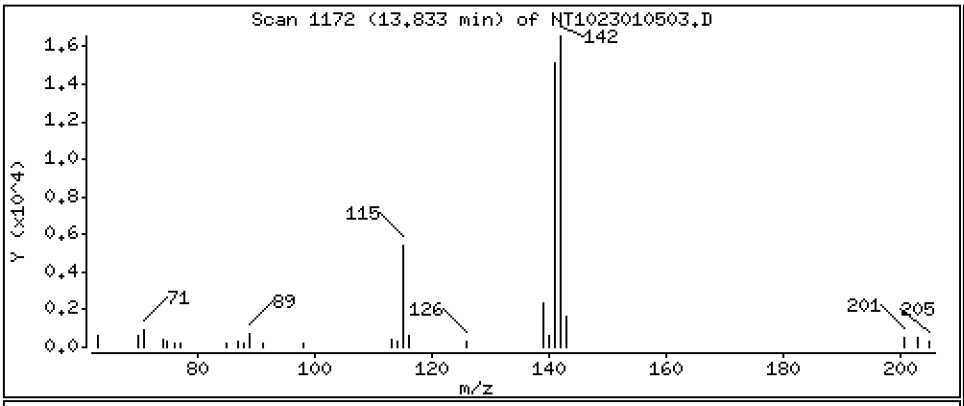
Operator: VTS

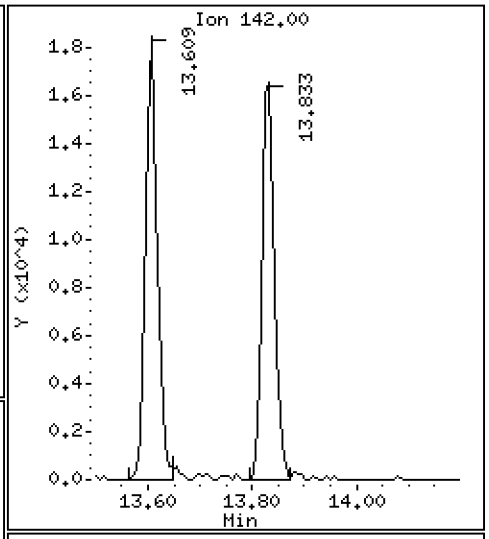
Column phase: ZB-5msi

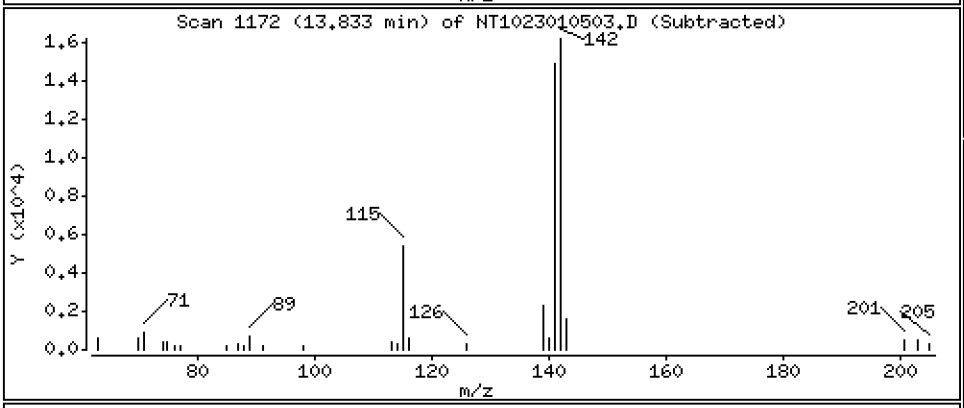
Column diameter: 0.25

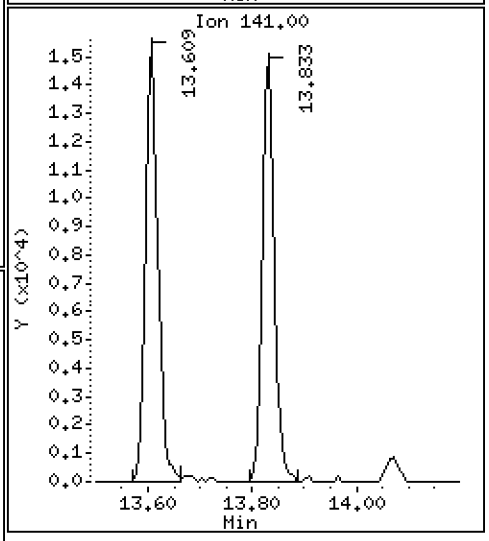
105 1-methylnaphthalene

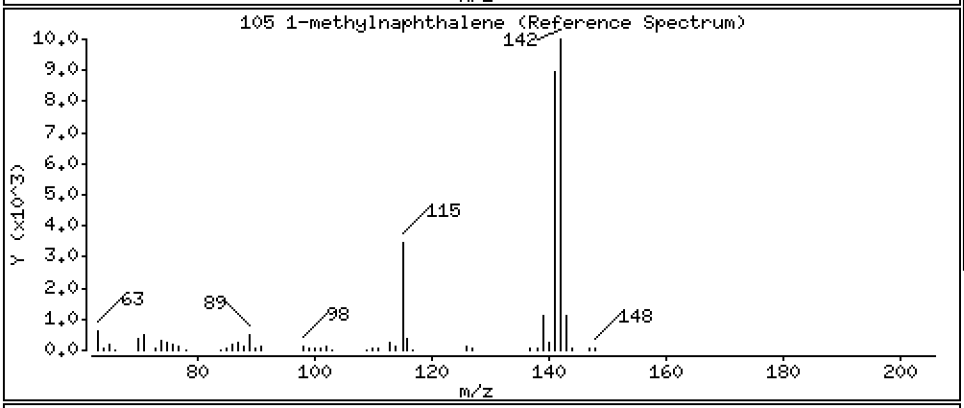
Concentration: 0.4456 ug/mL

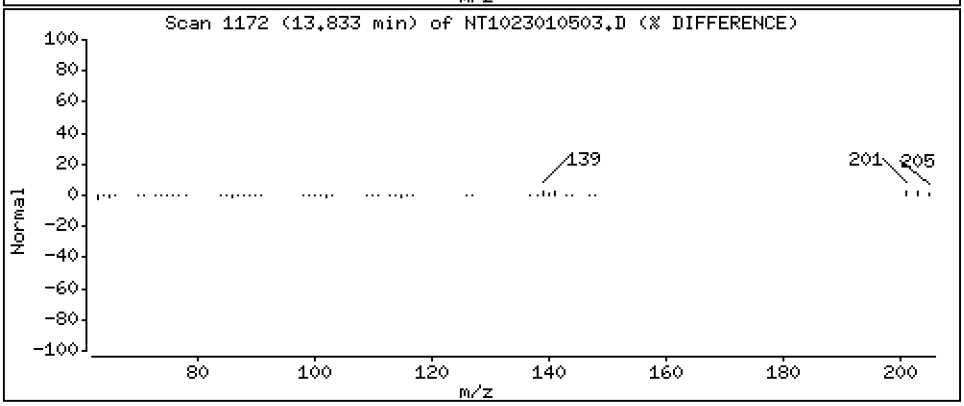












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

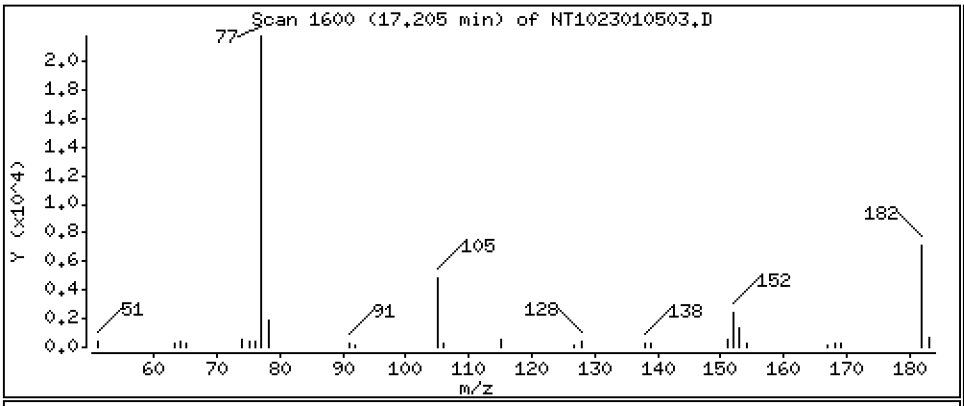
Operator: VTS

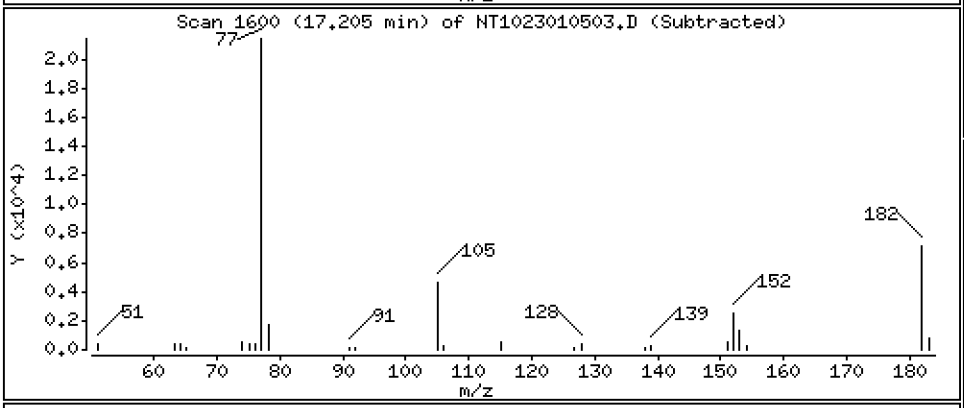
Column phase: ZB-5msi

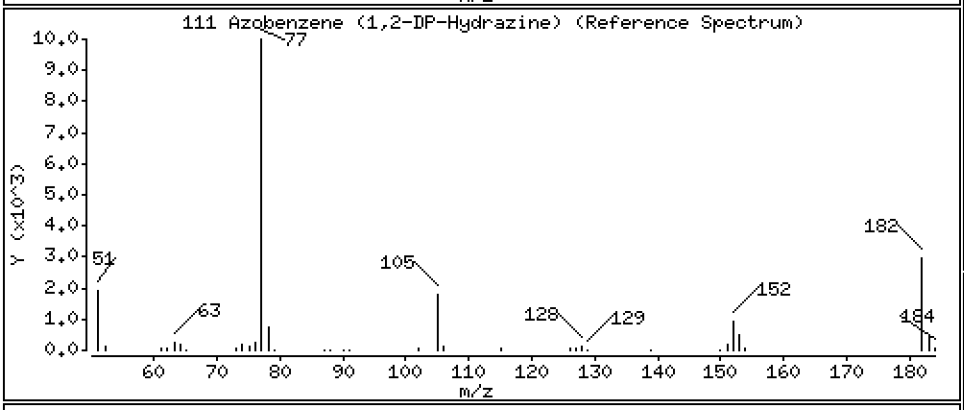
Column diameter: 0.25

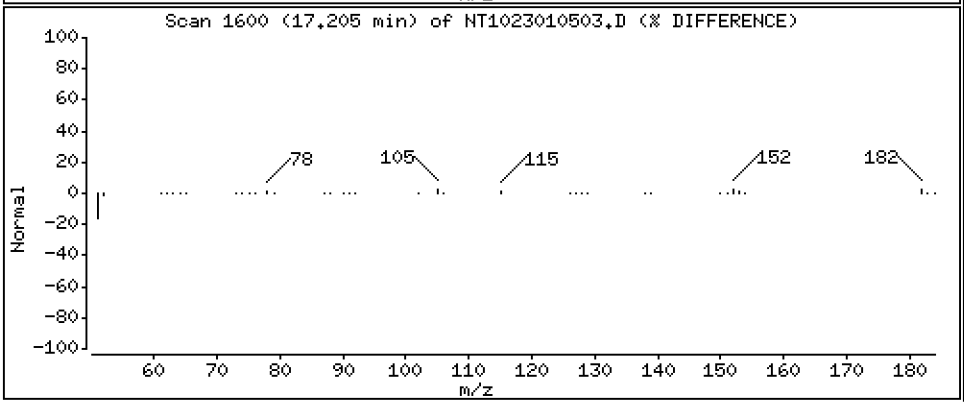
111 Azobenzene (1,2-DP-Hydrazine)

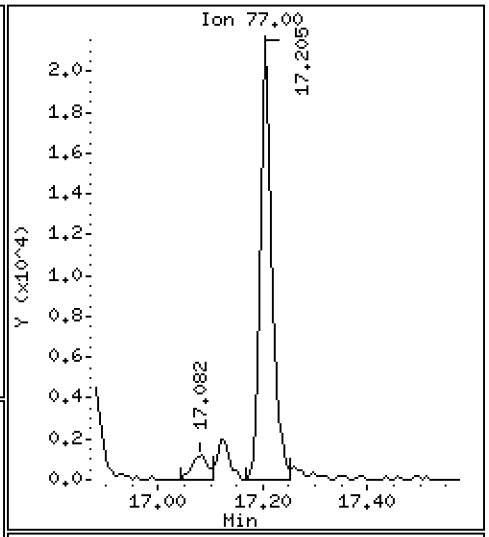
Concentration: 0.5540 ug/mL

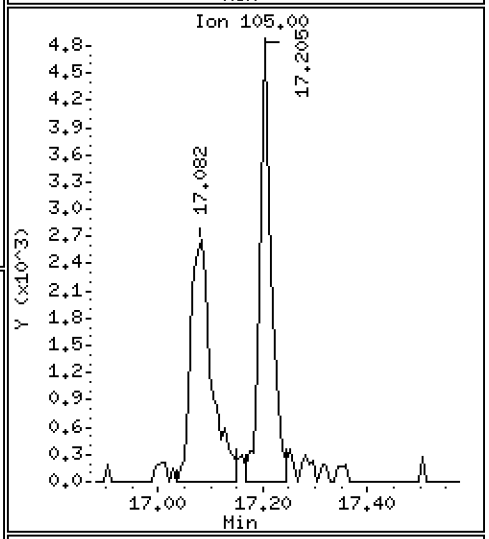


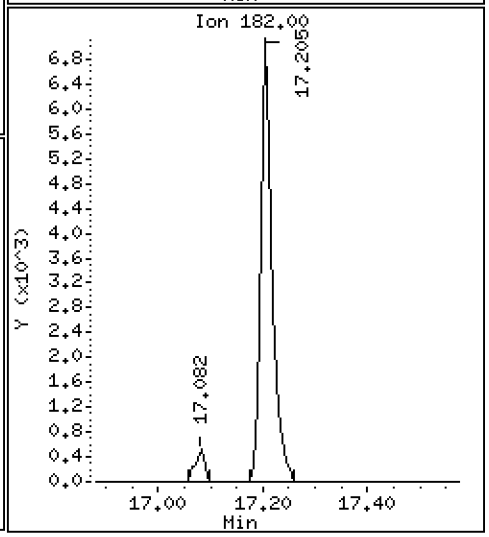












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

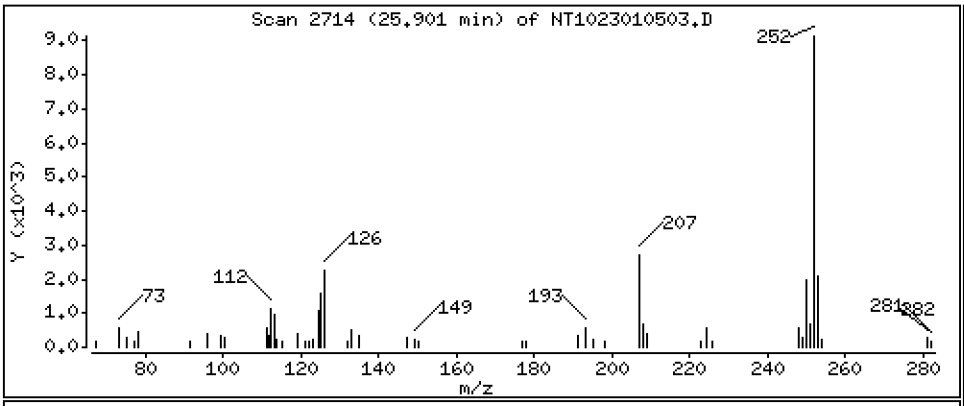
Operator: VTS

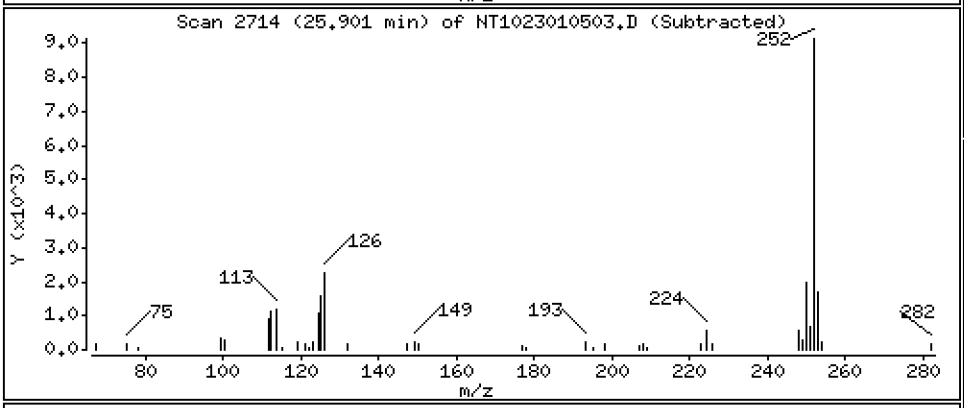
Column phase: ZB-5msi

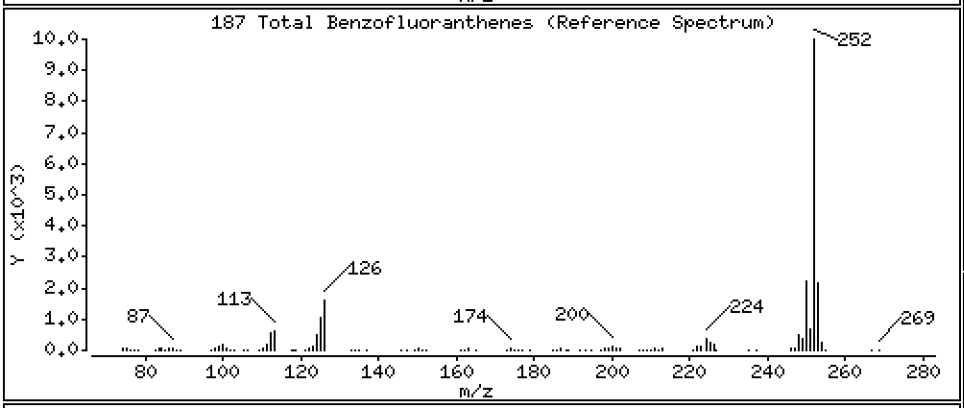
Column diameter: 0.25

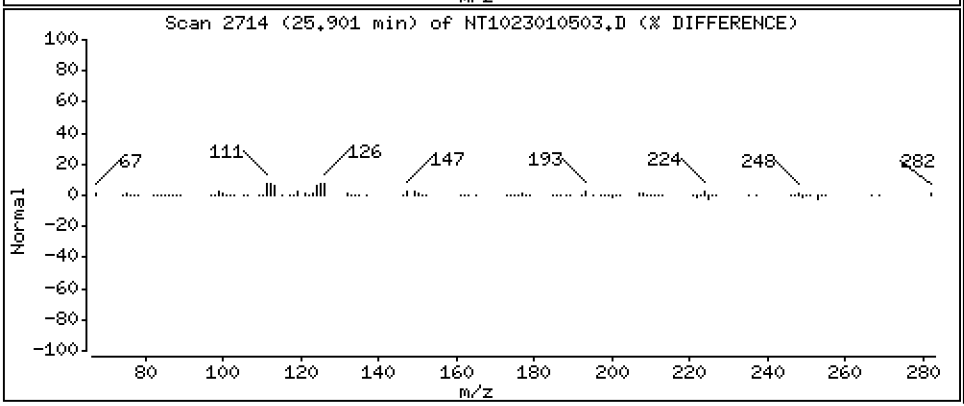
187 Total Benzofluoranthenes

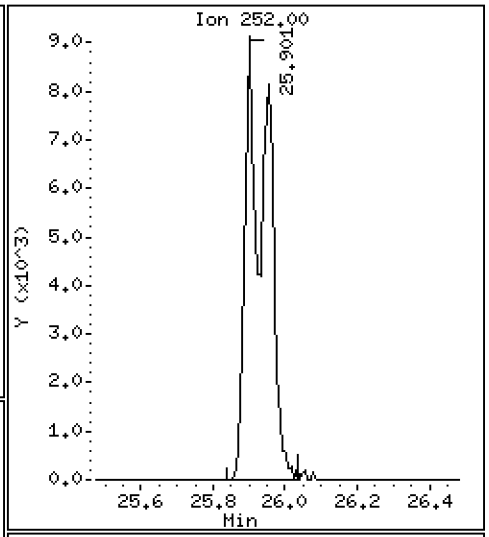
Concentration: 0.9861 ug/mL

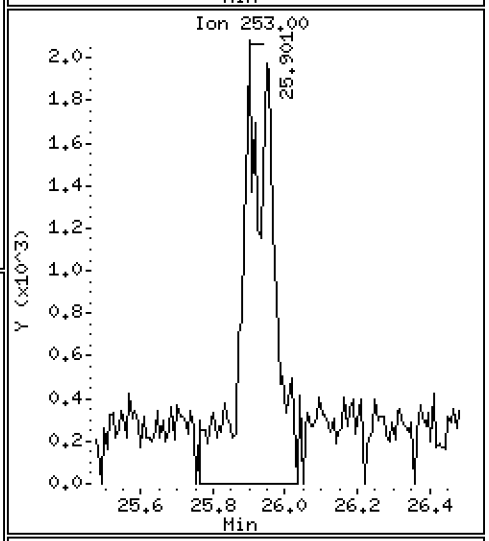


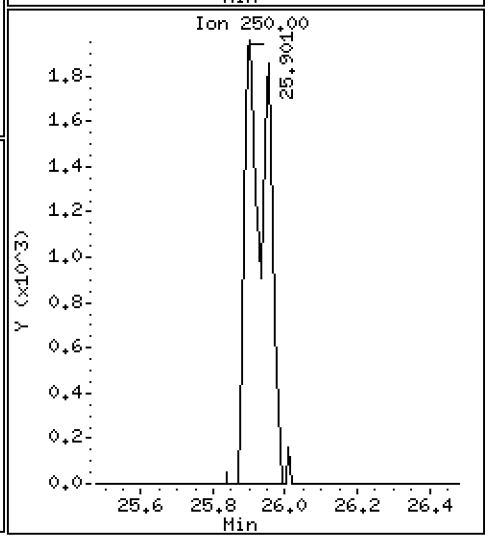












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

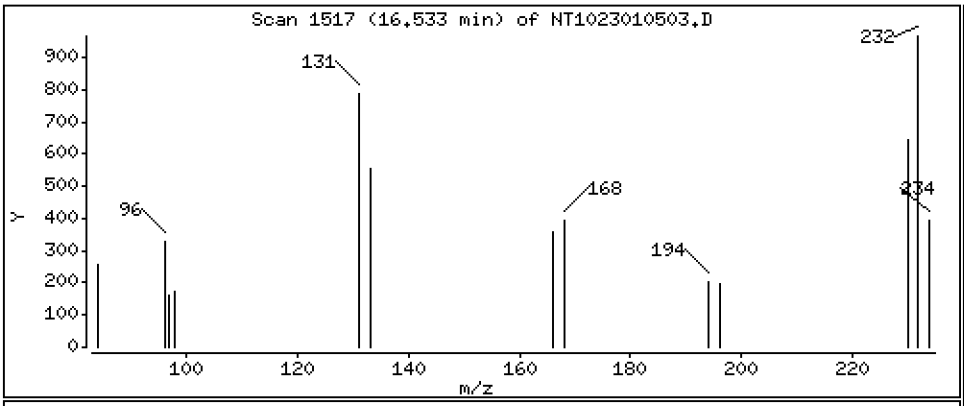
Operator: VTS

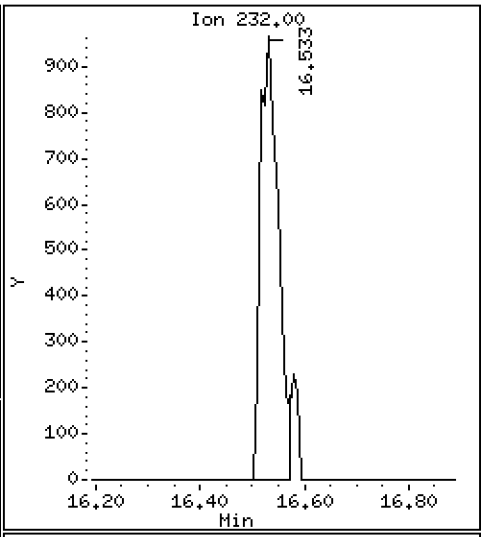
Column phase: ZB-5msi

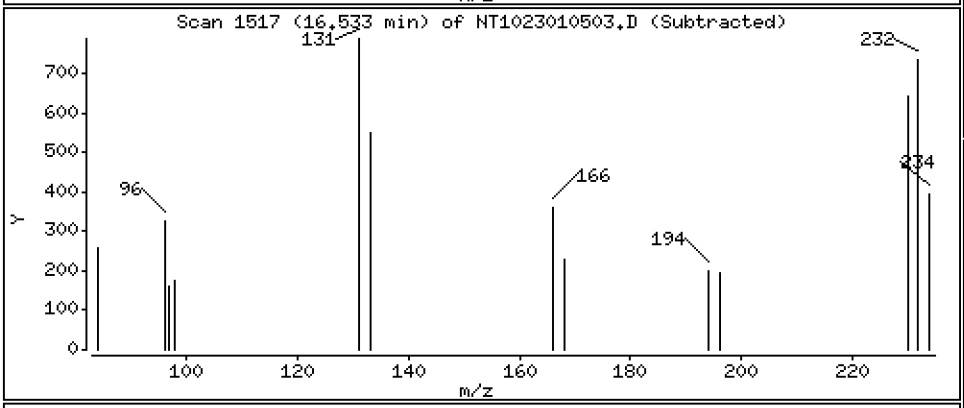
Column diameter: 0.25

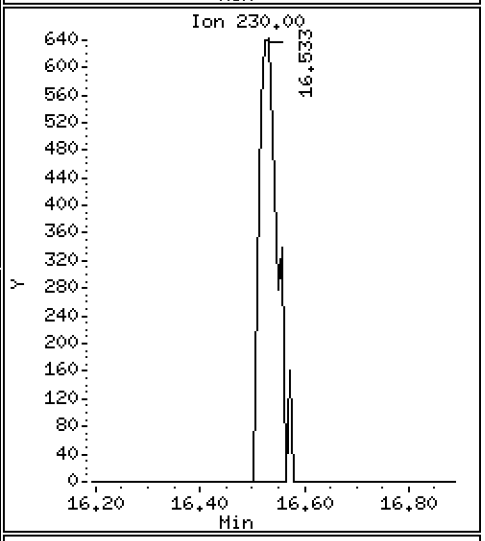
120 2,3,4,6-Tetrachlorophenol

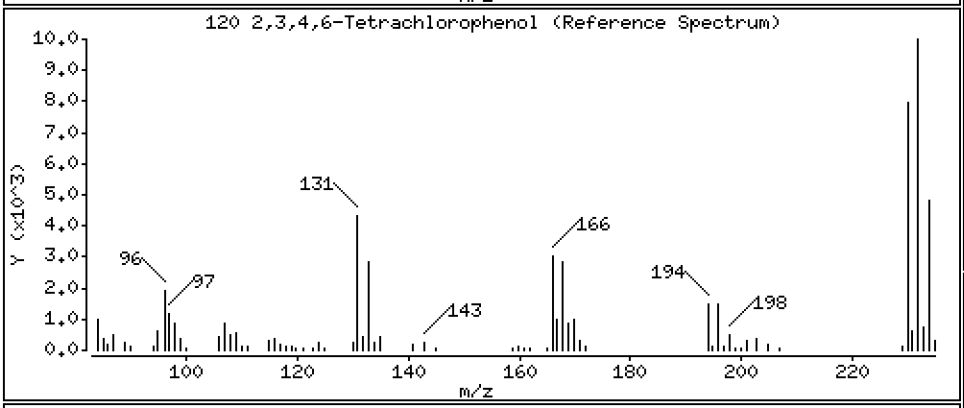
Concentration: 0.3024 ug/mL

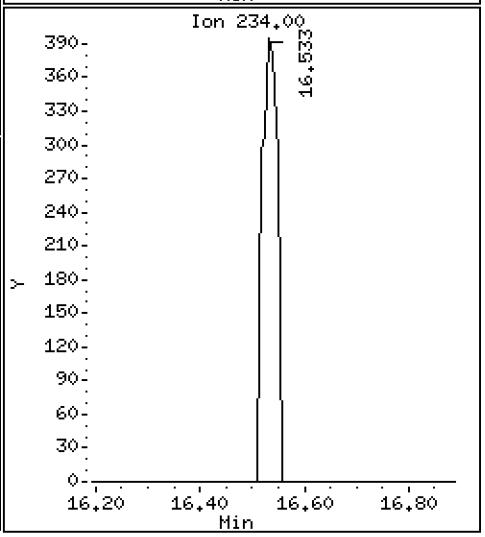


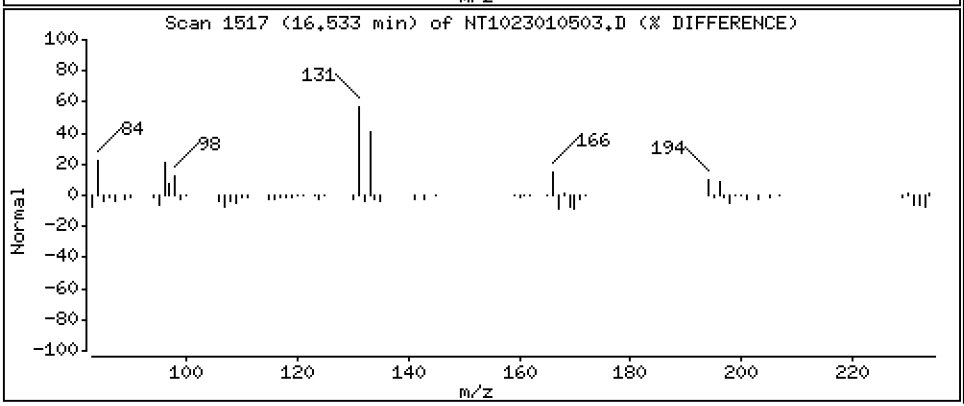












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D
Lab Smp Id: SLA0061-LCV1
Inj Date : 05-JAN-2023 14:37
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0061-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.436	7.429	(0.768)	16918	0.55648	0.5565
$	2 Phenol-d5	99	Compound Not Detected.					
	3 Phenol	94	9.028	9.036	(0.933)	14653	0.41516	0.4152
$	5 2-Chlorophenol-d4	132	9.314	9.321	(0.962)	22146	0.66957	0.6696
	4 Bis(2-Chloroethyl)ether	93	9.198	9.205	(0.950)	14011	0.44446	0.4445
	6 2-Chlorophenol	128	9.337	9.344	(0.965)	16281	0.46444	0.4644
	7 1,3-Dichlorobenzene	146	9.615	9.623	(0.994)	18124	0.49254	0.4925
*	8 1,4-Dichlorobenzene-d4	152	9.677	9.685	(1.000)	96119	4.00000	
	9 1,4-Dichlorobenzene	146	9.708	9.716	(1.003)	14660	0.46328	0.4633
$	10 1,2-Dichlorobenzene-d4	152	10.042	10.050	(1.038)	9639	0.46785	0.4679
	12 1,2-Dichlorobenzene	146	10.065	10.073	(1.040)	15598	0.48578	0.4858
	11 Benzyl alcohol	108	9.949	9.941	(1.028)	6022	0.36611	0.3661
	14 2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13 2-Methylphenol	108	10.151	10.158	(1.049)	11419	0.48017	0.4802
	17 Hexachloroethane	117	10.663	10.679	(1.102)	6484	0.46672	0.4667
	16 N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15 4-Methylphenol	108	10.422	10.422	(1.077)	10673	0.65366	0.6537
$	18 Nitrobenzene-d5	82	10.772	10.779	(0.885)	9366	0.39816	0.3982
	19 Nitrobenzene	77	10.803	10.810	(0.888)	9607	0.44638	0.4464
	20 Isophorone	82	Compound Not Detected.					
	21 2-Nitrophenol	139	11.433	11.442	(0.940)	7231	0.36658	0.3666
	22 2,4-Dimethylphenol	107	11.459	11.476	(0.942)	22676	0.79757	0.7976
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	11466	0.46573	0.4657
	24 Benzoic acid	105	11.671	11.671	(0.959)	242	0.02070	0.02070
	25 2,4-Dichlorophenol	162	11.892	11.900	(0.977)	18014	0.83053	0.8305
	26 1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	14658	0.61901	0.6190
*	27 Naphthalene-d8	136	12.169	12.185	(1.000)	368093	4.00000	
	28 Naphthalene	128	12.208	12.224	(1.003)	38942	0.48112	0.4811
	29 4-Chloroaniline	127	12.332	12.339	(1.013)	26121	0.83257	0.8326
	30 Hexachlorobutadiene	225	12.563	12.579	(1.032)	4080	0.46365	0.4636
	31 4-Chloro-3-methylphenol	107	13.283	13.291	(1.092)	15059	0.65678	0.6568
	32 2-Methylnaphthalene	142	13.608	13.624	(1.118)	28484	0.44494	0.4449
	33 Hexachlorocyclopentadiene	237	14.072	14.088	(0.891)	5859	0.71292	0.7129

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.227	14.235	(0.901)	9874	0.77159	0.7716
	35	2,4,5-Trichlorophenol	196	14.312	14.312	(0.906)	10137	0.73019	0.7302
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	26982	0.47444	0.4744
	37	2-Chloronaphthalene	162	14.606	14.622	(0.925)	25043	0.49290	0.4929
	38	2-Nitroaniline	65	14.862	14.862	(0.941)	4456	0.65477	0.6548
	39	Dimethylphthalate	163	15.264	15.280	(0.967)	24042	0.51934	0.5193
	40	Acenaphthylene	152	15.481	15.497	(0.980)	35709	0.48920	0.4892
	41	2,6-Dinitrotoluene	165	15.411	15.427	(0.976)	9507	0.90415	0.9041
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	153509	4.00000	
	43	3-Nitroaniline	138	15.713	15.721	(0.995)	10588	1.44863	1.449
	44	Acenaphthene	153	15.860	15.876	(1.004)	20149	0.49741	0.4974
	45	2,4-Dinitrophenol	184	15.938	15.938	(1.009)	1532	0.22125	0.2212
	46	Dibenzofuran	168	16.193	16.208	(1.025)	29977	0.48701	0.4870
	47	4-Nitrophenol	109	16.077	16.038	(1.018)	1380	0.25239	0.2524
	48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	11378	0.80643	0.8064
	50	Diethylphthalate	149	16.718	16.742	(1.059)	22460	0.46002	0.4600
	49	Fluorene	166	16.904	16.919	(1.070)	48880	0.54093	0.5409
	51	4-Chlorophenyl-phenylether	204	16.881	16.896	(1.069)	17102	0.58925	0.5893
	52	4-Nitroaniline	138	16.996	17.004	(1.076)	18184	0.90676	0.9068
	53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	13320	1.11403	1.114
	54	N-Nitrosodiphenylamine	169	17.128	17.143	(0.909)	29278	0.55776	0.5578
$	55	2,4,6-Tribromophenol	330	17.444	17.459	(1.105)	1637	0.54828	0.5483
	56	4-Bromophenyl-phenylether	248	17.891	17.914	(0.949)	6209	0.44930	0.4493
	57	Hexachlorobenzene	284	18.223	18.238	(0.967)	6327	0.53537	0.5354
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.850	18.865	(1.000)	283598	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.002)	33127	0.48147	0.4815
	61	Anthracene	178	18.989	19.005	(1.007)	29224	0.43510	0.4351
	62	Carbazole	167	19.306	19.322	(1.024)	31981	0.44187	0.4419
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	39526	0.41480	0.4148
	64	Fluoranthene	202	21.248	21.271	(0.891)	33684	0.47213	0.4721
	65	Pyrene	202	21.674	21.689	(0.909)	34020	0.47482	0.4748
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	19853	0.45174	0.4517
	67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	18059	0.46785	0.4679
	68	Benzo(a)anthracene	228	23.818	23.842	(0.999)	25972	0.52862	0.5286
*	69	Chrysene-d12	240	23.849	23.873	(1.000)	181369	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.757	23.780	(0.996)	24725	1.36441	1.364
	71	Chrysene	228	23.896	23.919	(1.002)	21920	0.48826	0.4883
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	27933	0.50301	0.5030
*	134	Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	361602	4.00000	
	73	Di-n-octylphthalate	149	24.910	24.941	(1.000)	41478	0.49604	0.4960
	74	Benzo(b)fluoranthene	252	25.901	25.932	(0.967)	20969	0.50771	0.5077
	75	Benzo(k)fluoranthene	252	25.955	25.978	(0.969)	19418	0.48256	0.4826
	76	Benzo(a)pyrene	252	26.660	26.691	(0.995)	18190	0.46186	0.4619
*	77	Perylene-d12	264	26.791	26.822	(1.000)	114656	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.907	29.946	(1.116)	13173	0.42552	0.4255
	79	Dibenzo(a,h)anthracene	278	29.931	29.970	(1.117)	10087	0.41467	0.4147
	80	Benzo(g,h,i)perylene	276	30.832	30.886	(1.151)	5362	0.20993	0.2099
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.128	9.128	(0.943)	27452	0.82953	0.8295
	93	Benzidine	184	21.465	21.480	(0.900)	24103	0.72073	0.7207
	103	Pyridine	79	5.328	5.290	(0.551)	8355	0.16615	0.1661
	105	1-methylnaphthalene	142	13.833	13.848	(1.137)	27871	0.44556	0.4456
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	33539	0.55399	0.5540

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.978	(0.967)	38564	0.98612	0.9861
120 2,3,4,6-Tetrachlorophenol	232	16.533	16.541	(1.047)	2293	0.30239	0.3024

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010503.D
Lab Smp Id: SLA0061-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	96119	17.61
27 Naphthalene-d8	307034	153517	614068	368093	19.89
42 Acenaphthene-d10	140557	70279	281114	153509	9.21
59 Phenanthrene-d10	243620	121810	487240	283598	16.41
69 Chrysene-d12	144852	72426	289704	181369	25.21
134 Di-n-octylphthala	387178	193589	774356	361602	-6.61
77 Perylene-d12	106683	53342	213366	114656	7.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.68	-0.08
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.79	-0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010503.D

Lab ID: SLA0061-LCV1
nt10.i, ABN.m, 05-JAN-2023 14:37

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

LOW-CONCENTRATION CALIBRATION VERIFICATION

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV1
Sequence: SLA0068
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.4	-14.9	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-3.1	50.00
2-Chlorophenol	0.50000	0.5	-8.9	50.00
1,3-Dichlorobenzene	0.50000	0.5	-7.0	50.00
1,4-Dichlorobenzene	0.50000	0.5	-6.7	50.00
1,2-Dichlorobenzene	0.50000	0.5	-4.2	50.00
Benzyl Alcohol	0.50000	0.4	-13.8	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	1.6	50.00
2-Methylphenol	0.50000	0.4	-14.1	50.00
Hexachloroethane	0.50000	0.5	4.7	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	5.1	50.00
4-Methylphenol	0.50000	0.4	-19.6	50.00
Nitrobenzene	0.50000	0.5	-2.5	50.00
Isophorone	0.50000	0.5	-5.5	50.00
2-Nitrophenol	0.50000	0.4	-29.5	50.00
2,4-Dimethylphenol	1.0000	0.8	-20.4	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-5.7	50.00
2,4-Dichlorophenol	1.0000	0.7	-32.6	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	6.9	50.00
Naphthalene	0.50000	0.5	-7.8	50.00
Benzoic acid	2.0000	0.3	-84.0	50.00
4-Chloroaniline	1.0000	0.8	-22.1	50.00
Hexachlorobutadiene	0.50000	0.5	-6.4	50.00
4-Chloro-3-Methylphenol	1.0000	0.7	-28.5	50.00
2-Methylnaphthalene	0.50000	0.4	-14.5	50.00
Hexachlorocyclopentadiene	1.0000	0.6	-43.7	50.00
2,4,6-Trichlorophenol	1.0000	0.7	-31.6	50.00
2,4,5-Trichlorophenol	1.0000	0.5	-47.3	50.00
2-Chloronaphthalene	0.50000	0.5	-9.3	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV1
Sequence: SLA0068
Standard ID: K011106

2-Nitroaniline	1.0000	1.0	-4.7	50.00
Acenaphthylene	0.50000	0.5	-7.3	50.00
Dimethylphthalate	0.50000	0.5	-3.3	50.00
2,6-Dinitrotoluene	1.0000	0.8	-15.3	50.00
Acenaphthene	0.50000	0.5	-6.0	50.00
3-Nitroaniline	1.0000	0.8	-17.8	50.00
2,4-Dinitrophenol	2.0000	0.3	-87.1	50.00
Dibenzofuran	0.50000	0.5	-8.5	50.00
4-Nitrophenol	1.0000	0.6	-42.0	50.00
2,4-Dinitrotoluene	1.0000	0.8	-21.2	50.00
Fluorene	0.50000	0.5	-7.5	50.00
4-Chlorophenylphenyl ether	0.50000	0.4	-15.5	50.00
Diethyl phthalate	0.50000	0.5	7.0	50.00
4-Nitroaniline	1.0000	0.9	-10.5	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.8	-61.6	50.00
N-Nitrosodiphenylamine	0.50000	0.5	-9.7	50.00
4-Bromophenyl phenyl ether	0.50000	0.4	-14.1	50.00
Hexachlorobenzene	0.50000	0.4	-11.3	50.00
Pentachlorophenol	1.0000	0.1	-88.8	50.00
Phenanthrene	0.50000	0.5	-8.4	50.00
Anthracene	0.50000	0.5	-8.1	50.00
Carbazole	0.50000	0.5	-7.6	50.00
Di-n-Butylphthalate	0.50000	0.5	-4.1	50.00
Fluoranthene	0.50000	0.5	-2.7	50.00
Pyrene	0.50000	0.5	-2.9	50.00
Butylbenzylphthalate	0.50000	0.6	12.9	50.00
Benzo(a)anthracene	0.50000	0.5	-6.6	50.00
3,3'-Dichlorobenzidine	1.5000	1.5	3.2	50.00
Chrysene	0.50000	0.5	-6.3	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	-3.3	50.00
Di-n-Octylphthalate	0.50000	0.5	-7.0	50.00

LOW-CONCENTRATION
CALIBRATION VERIFICATION
EPA 8270E

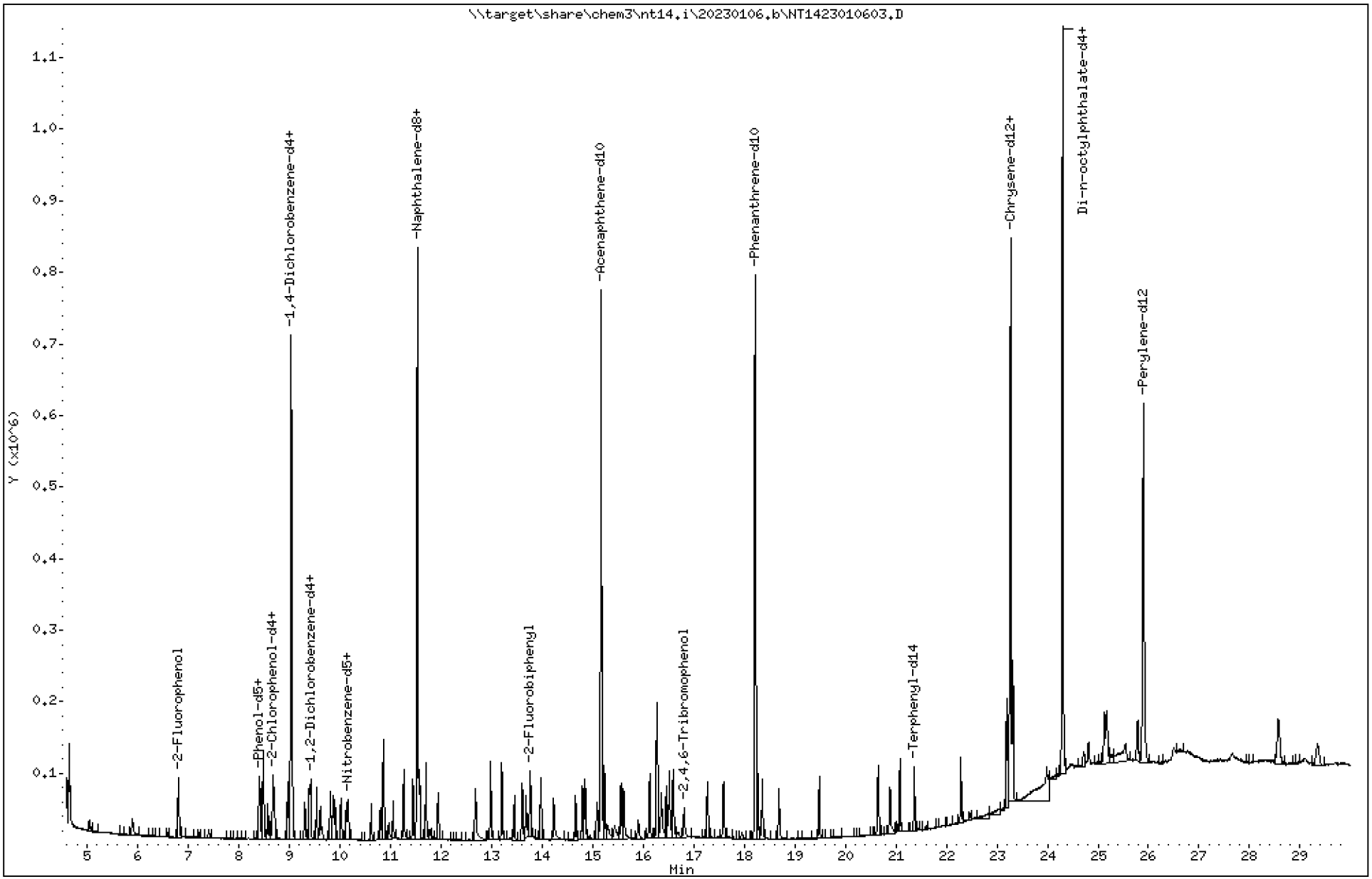
Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV1
Sequence: SLA0068
Standard ID: K011106

Benzofluoranthenes, Total	1.0000	0.9	-11.4	50.00
Benzo(a)pyrene	0.50000	0.5	-3.3	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.5	-6.4	50.00
Dibenzo(a,h)anthracene	0.50000	0.5	-9.7	50.00
Benzo(g,h,i)perylene	0.50000	0.5	-7.4	50.00
1-Methylnaphthalene	0.50000	0.4	-12.7	50.00
2-Fluorophenol	0.75000	0.684	-8.8	50.00
Phenol-d5	0.75000	0.647	-13.8	50.00
2-Chlorophenol-d4	0.75000	0.697	-7.1	50.00
1,2-Dichlorobenzene-d4	0.50000	0.468	-6.4	50.00
Nitrobenzene-d5	0.50000	0.500	0.02	50.00
2-Fluorobiphenyl	0.50000	0.457	-8.6	50.00
2,4,6-Tribromophenol	0.75000	0.519	-30.8	50.00
p-Terphenyl-d14	0.50000	0.471	-5.7	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D
Date : 06-JAN-2023 12:48
Client ID:
Sample Info: SLA0068-LCV1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2408 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

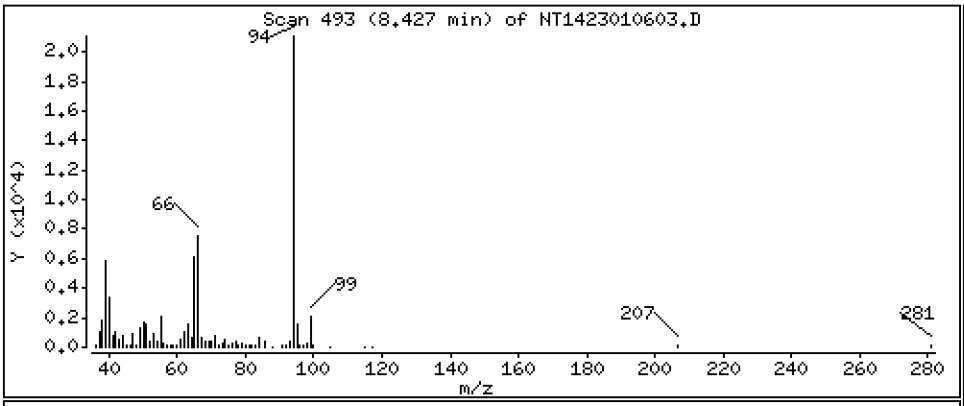
Operator: VTS

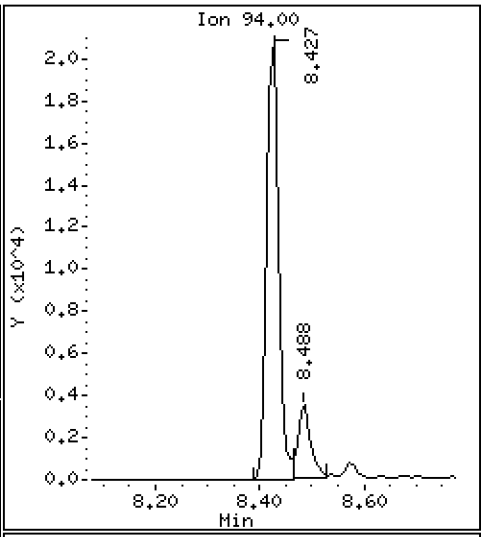
Column phase: ZB-5msi

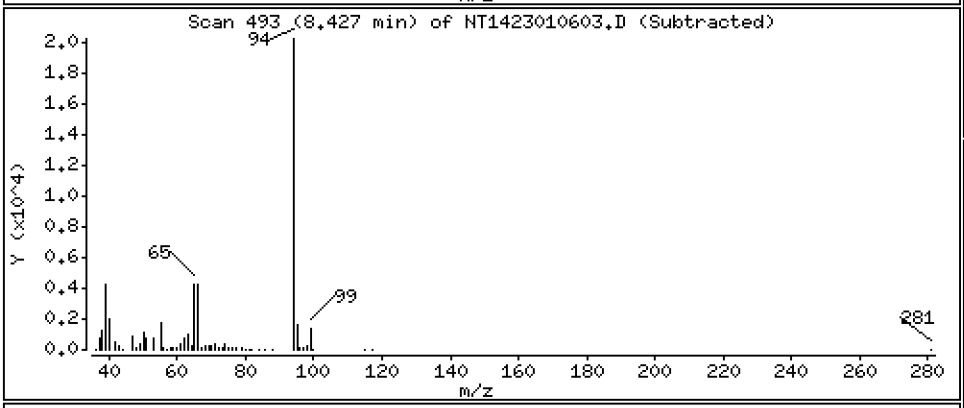
Column diameter: 0.25

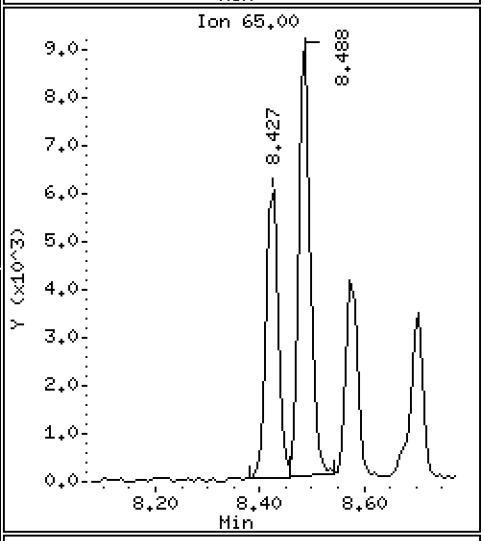
3 Phenol

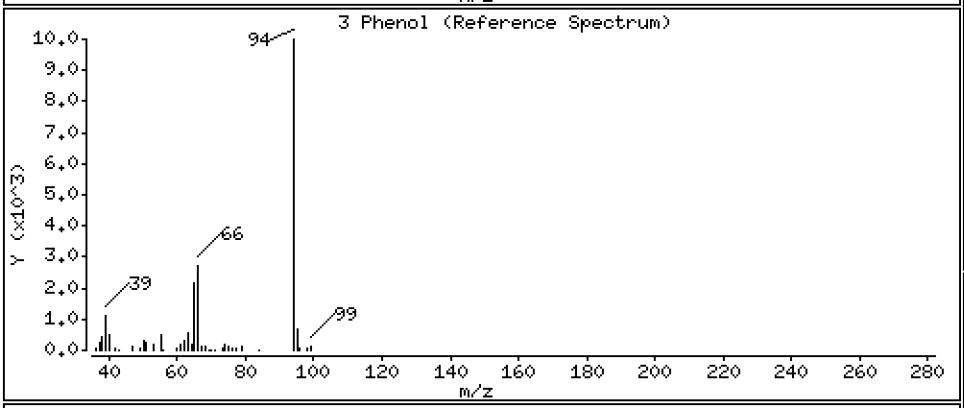
Concentration: 0.4258 ug/mL

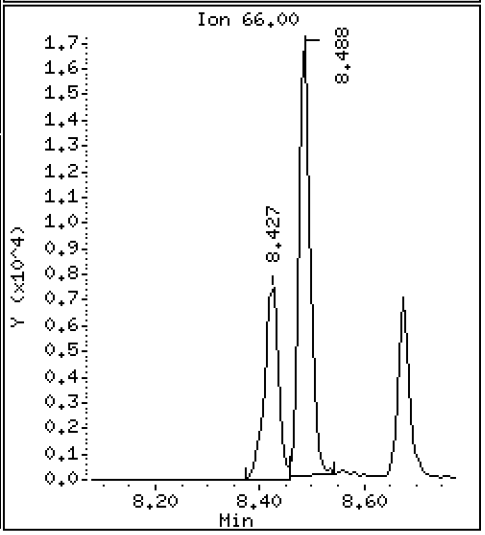


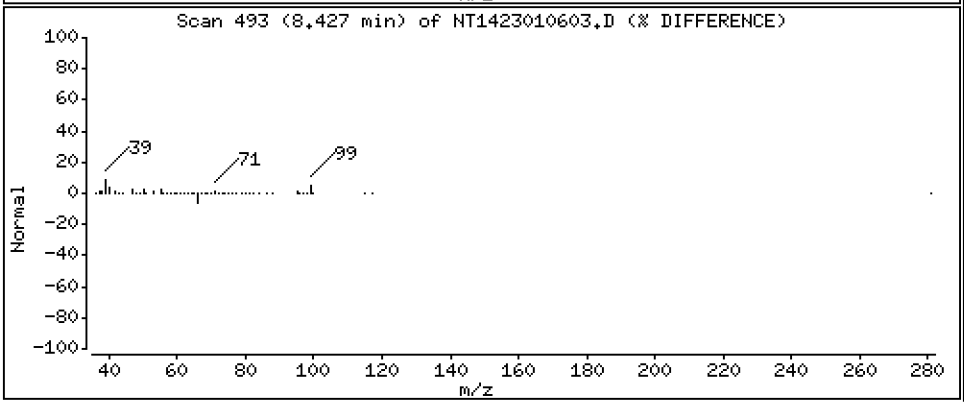












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

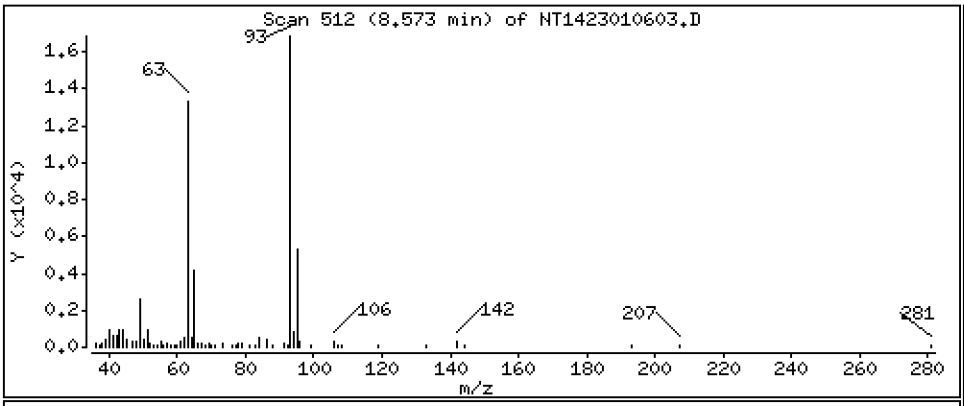
Operator: VTS

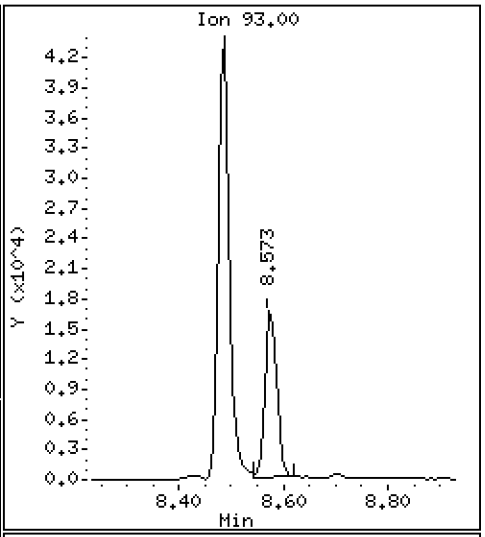
Column phase: ZB-5msi

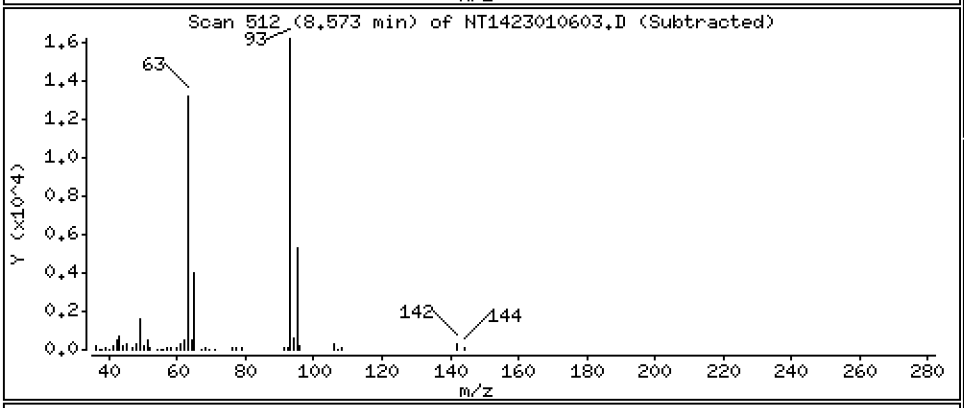
Column diameter: 0.25

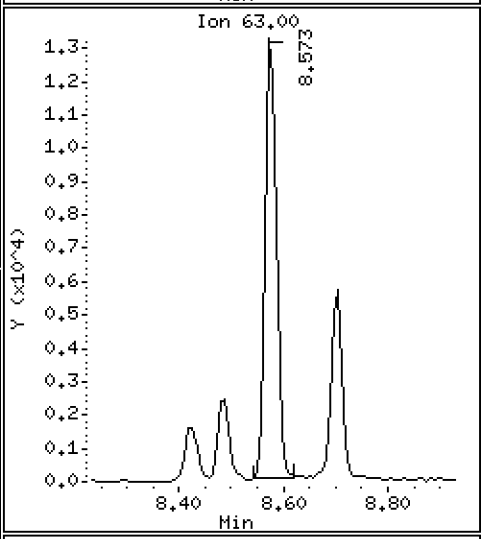
4 Bis(2-Chloroethyl)ether

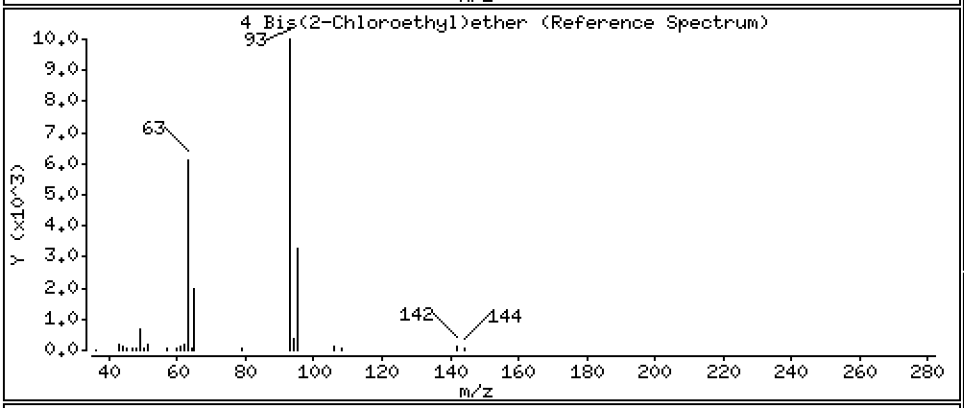
Concentration: 0.4843 ug/mL

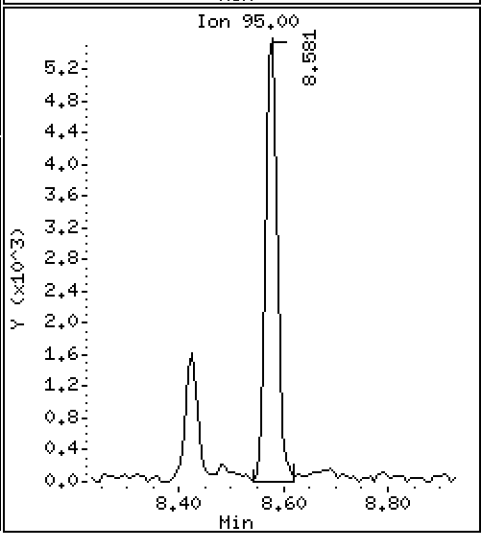


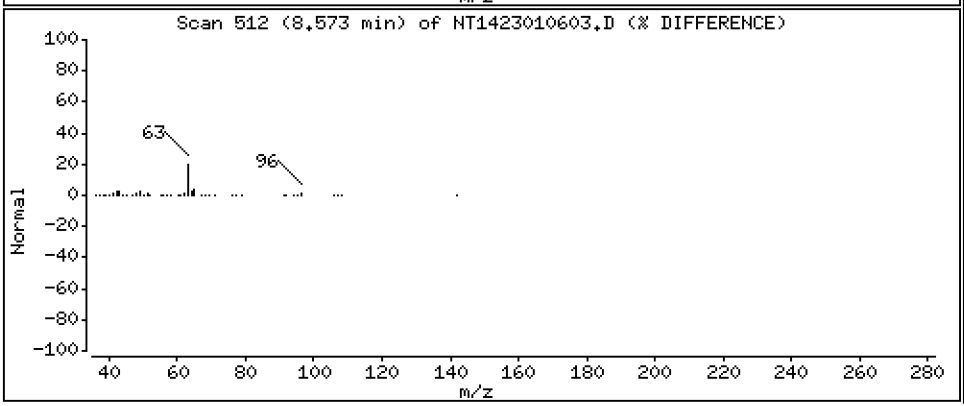












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

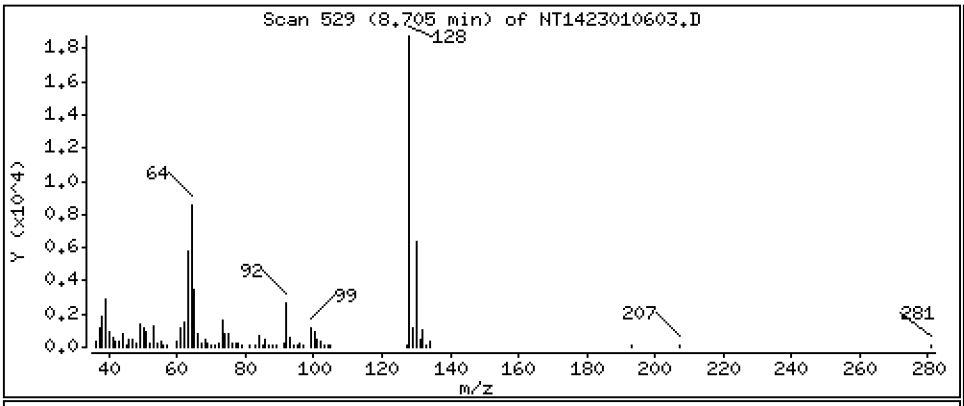
Operator: VTS

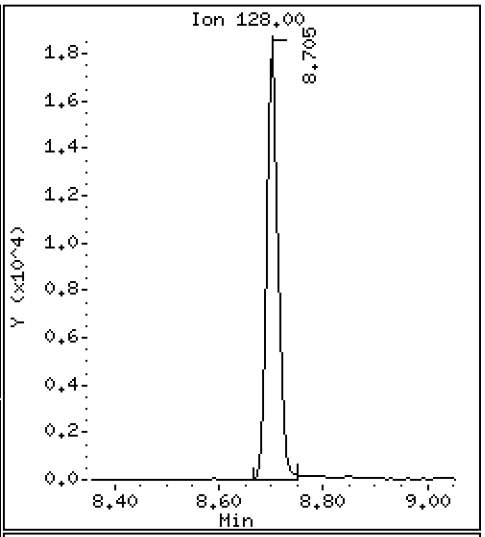
Column phase: ZB-5msi

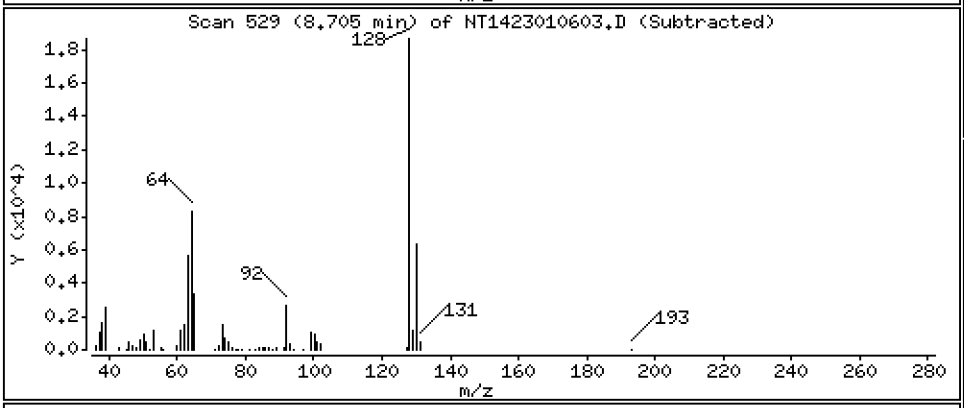
Column diameter: 0.25

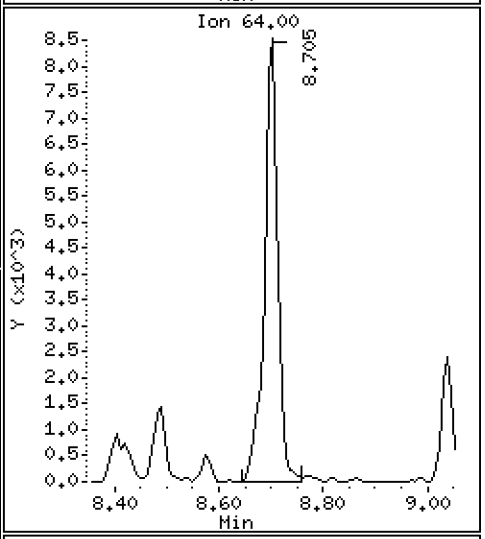
6 2-Chlorophenol

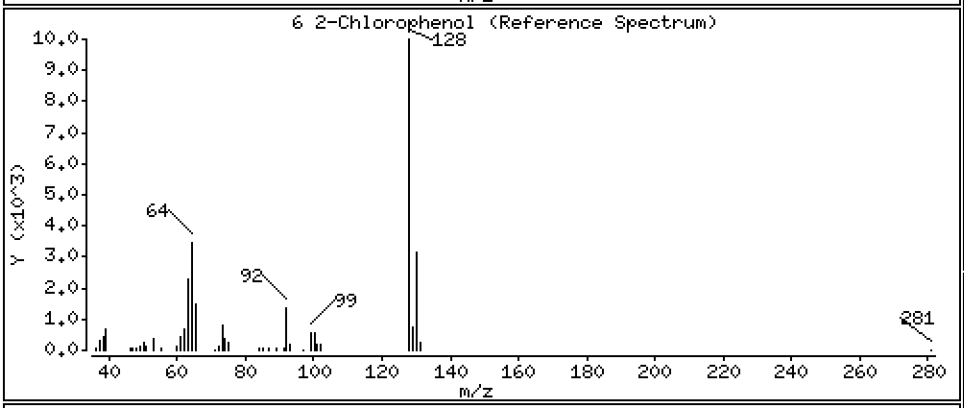
Concentration: 0.4557 ug/mL

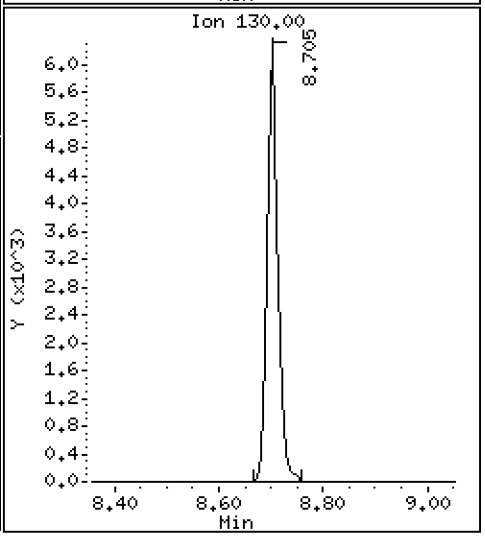


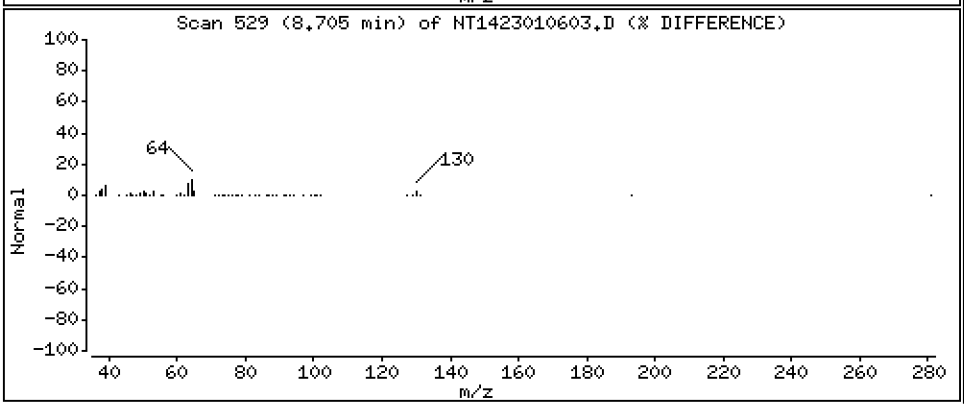












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

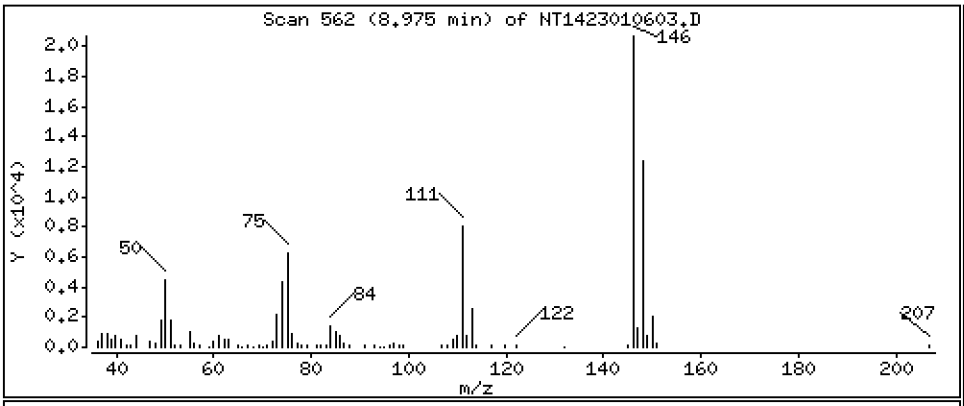
Operator: VTS

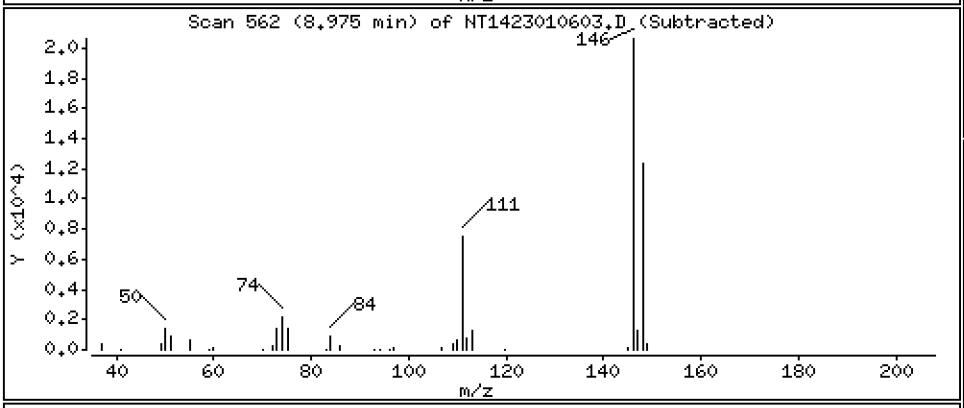
Column phase: ZB-5msi

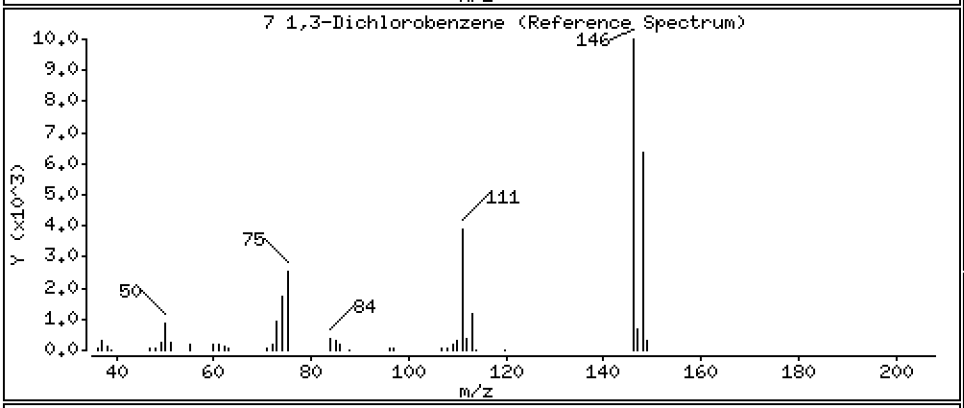
Column diameter: 0.25

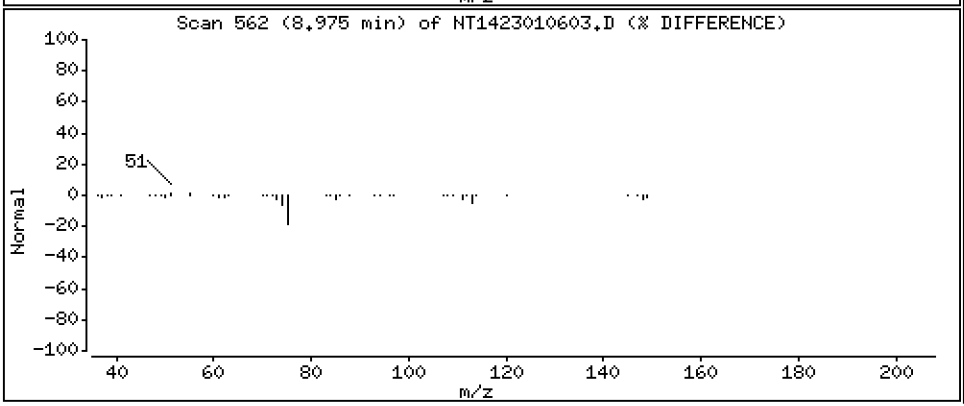
7 1,3-Dichlorobenzene

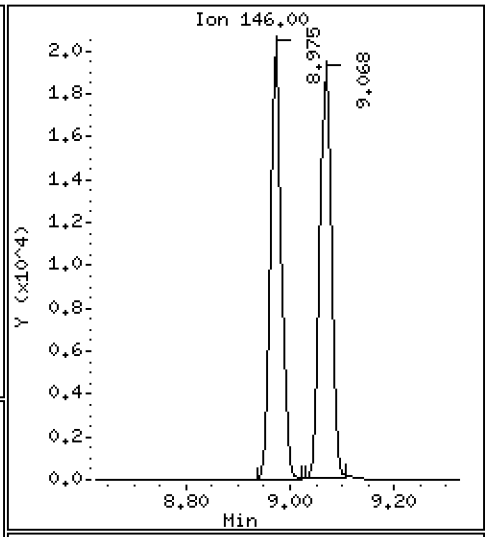
Concentration: 0.4652 ug/mL

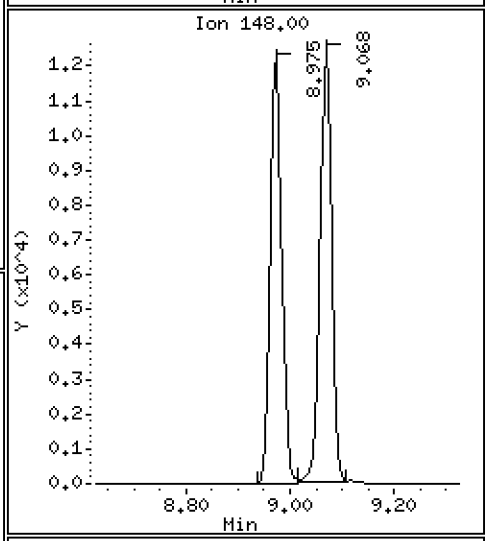


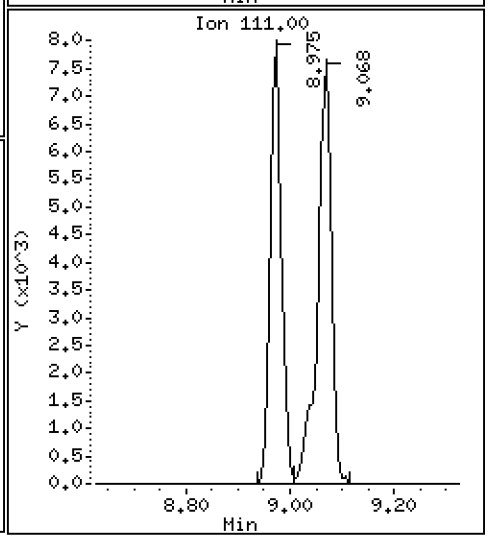












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

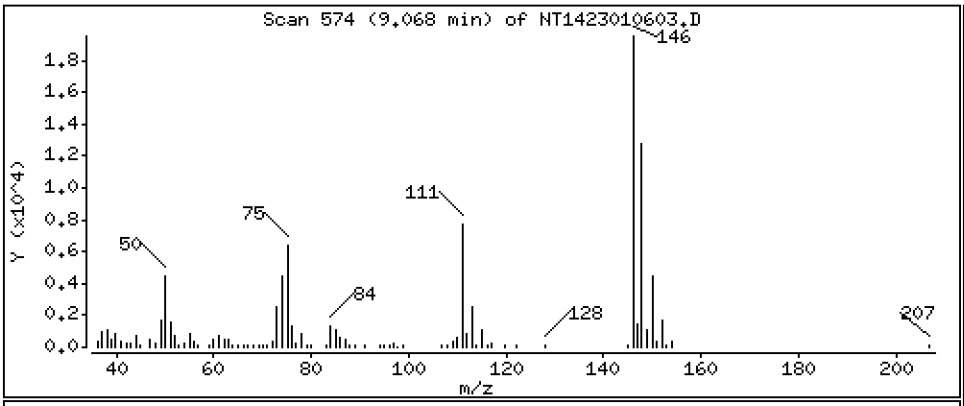
Operator: VTS

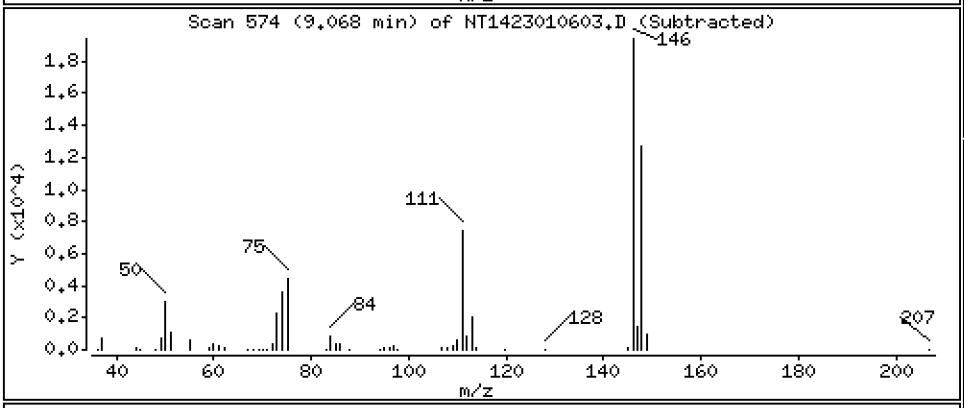
Column phase: ZB-5msi

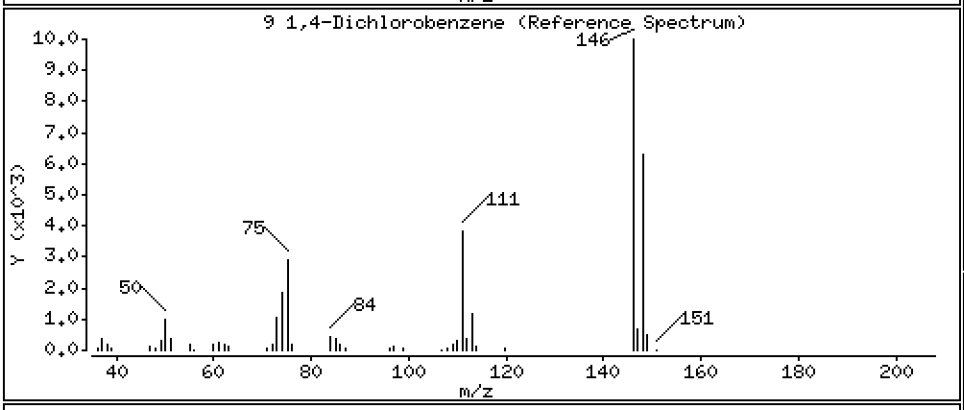
Column diameter: 0.25

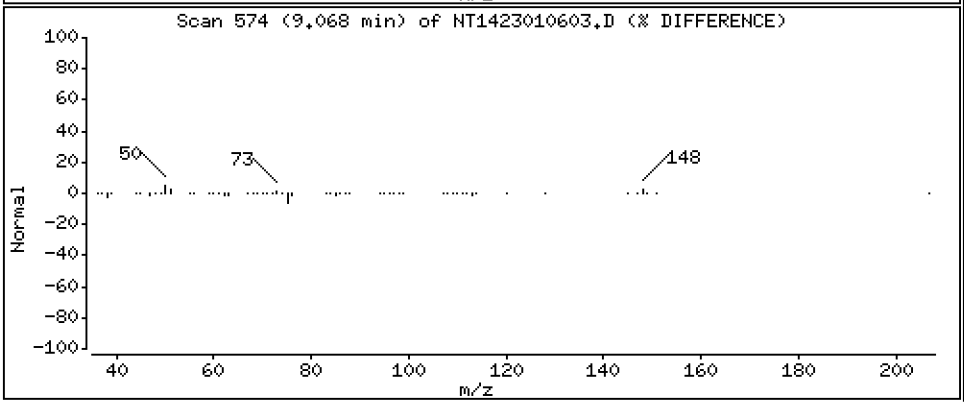
9 1,4-Dichlorobenzene

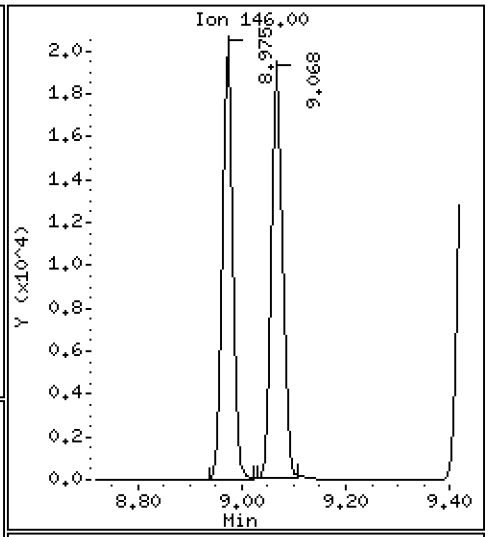
Concentration: 0.4667 ug/mL

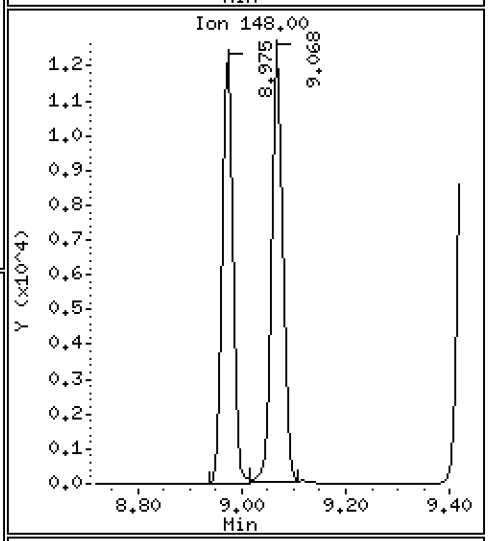


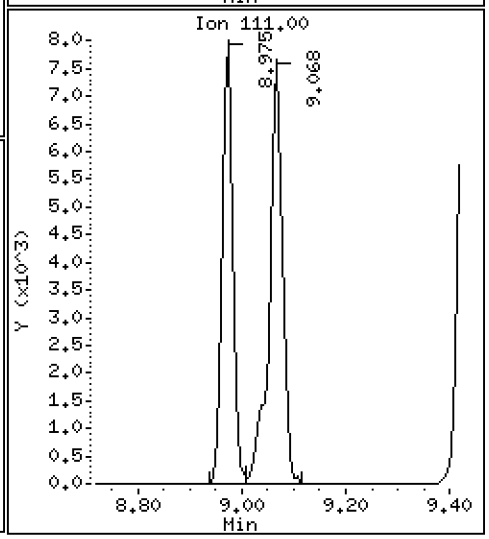












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

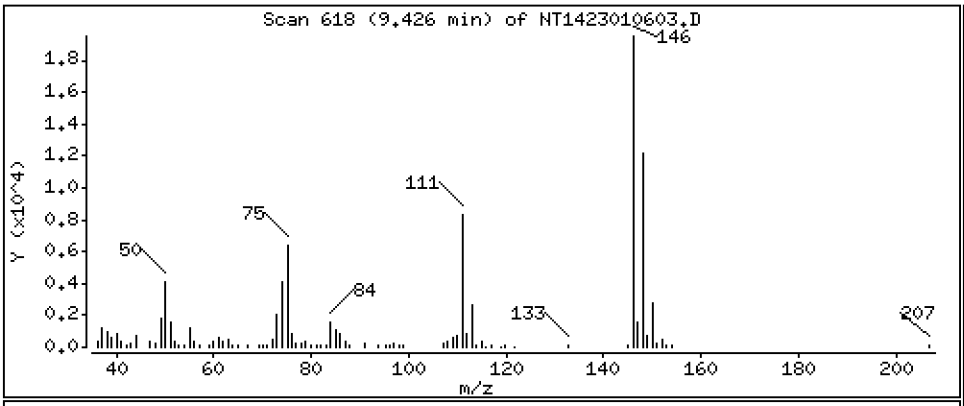
Operator: VTS

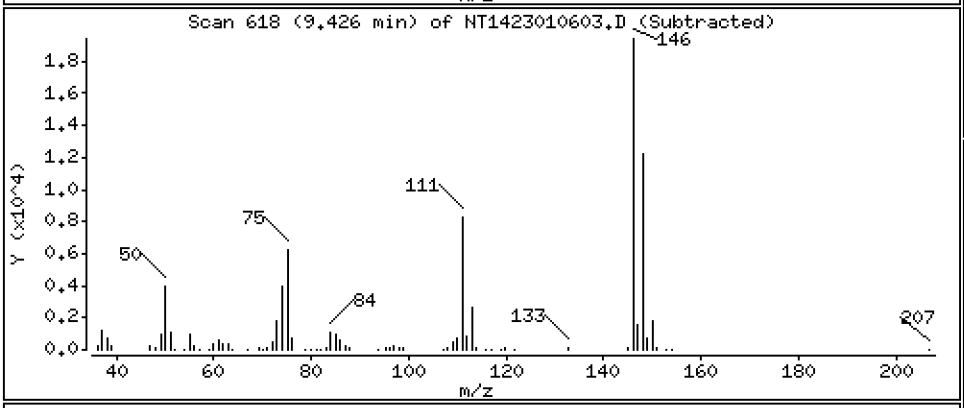
Column phase: ZB-5msi

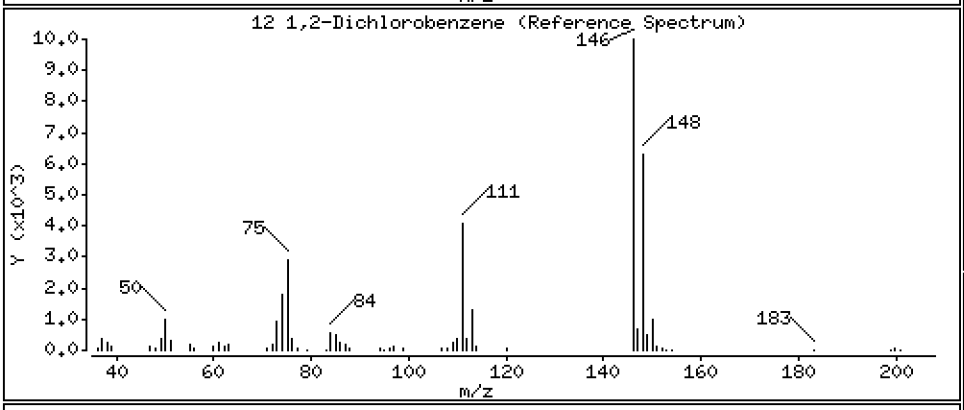
Column diameter: 0.25

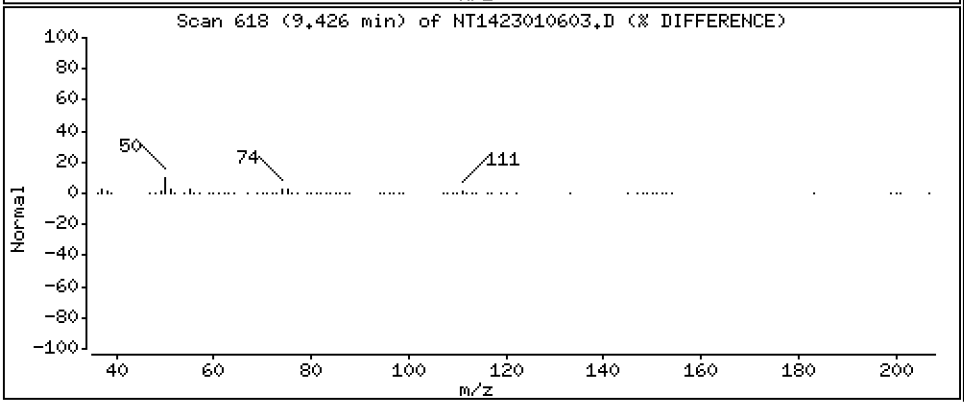
12 1,2-Dichlorobenzene

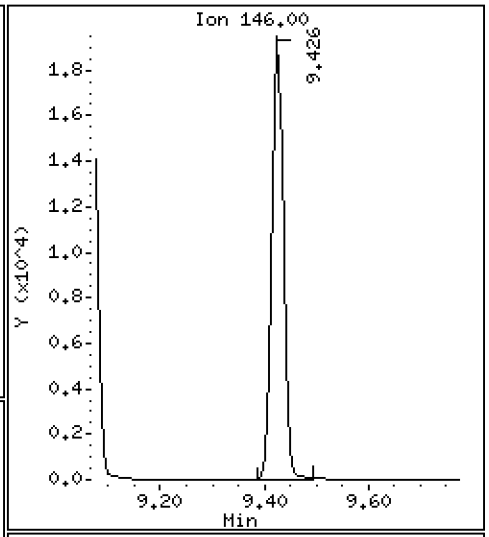
Concentration: 0.4789 ug/mL

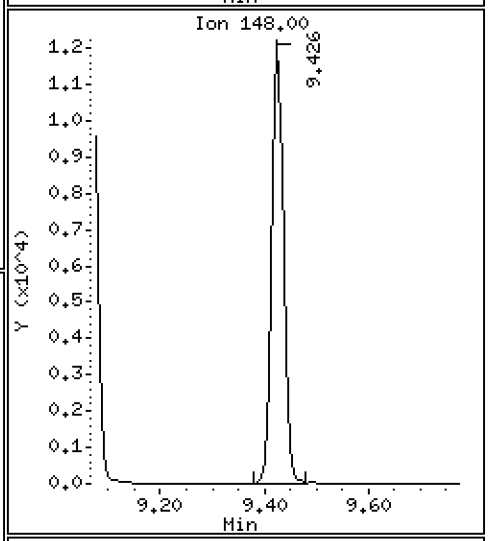


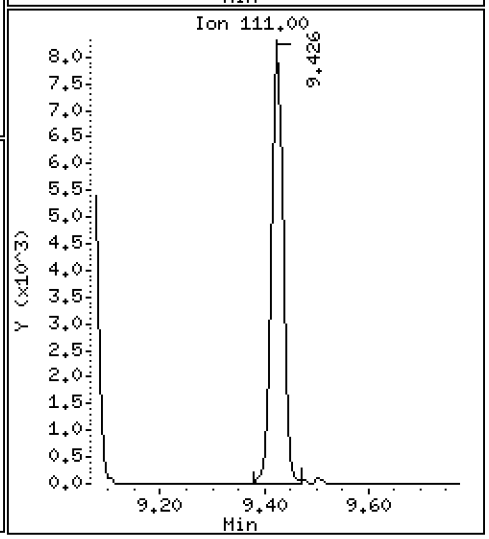












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

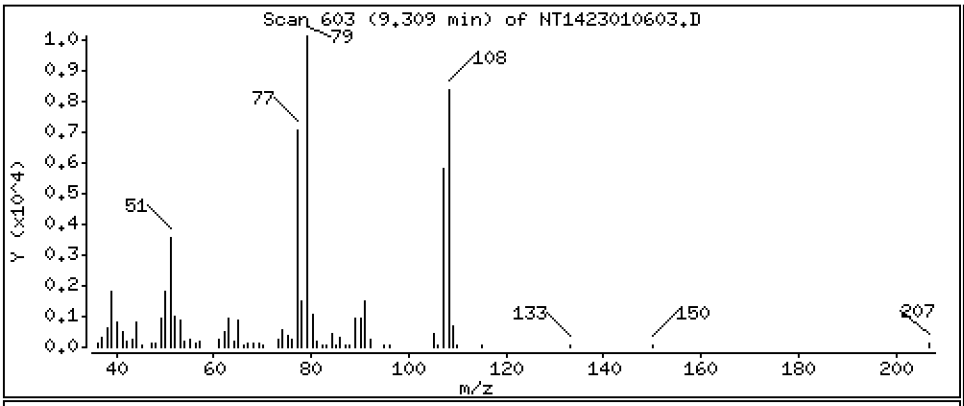
Operator: VTS

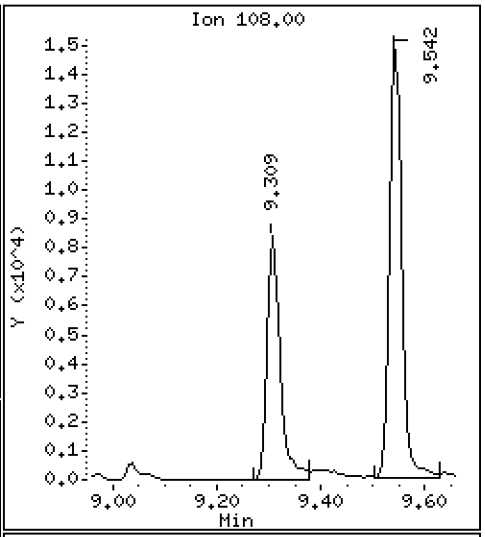
Column phase: ZB-5msi

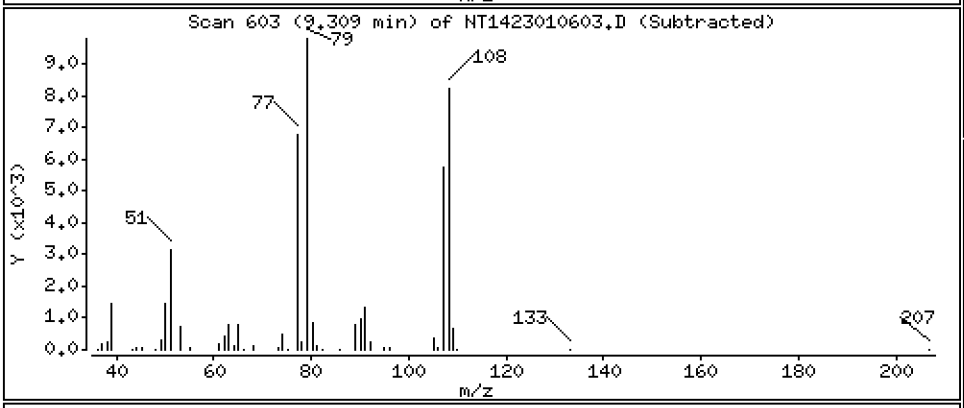
Column diameter: 0.25

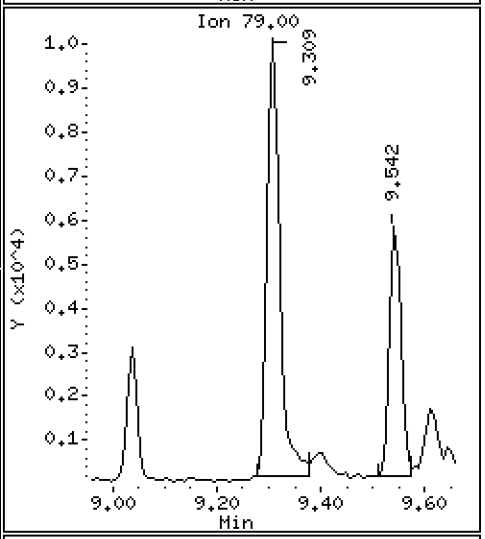
11 Benzyl alcohol

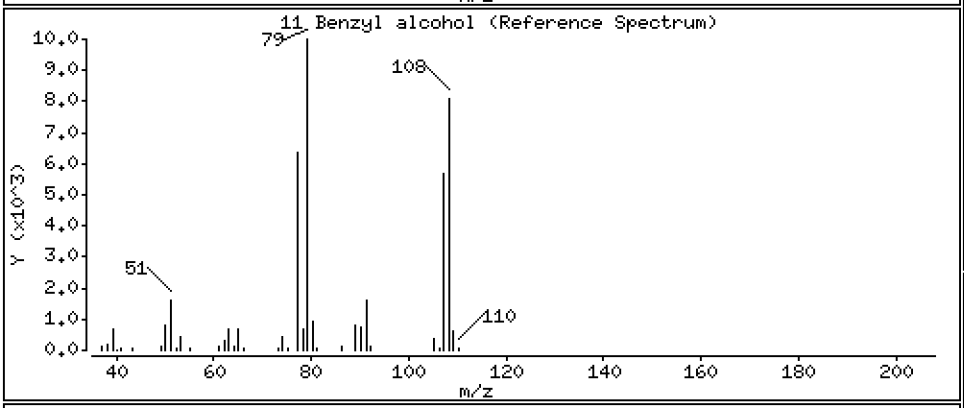
Concentration: 0.4312 ug/mL

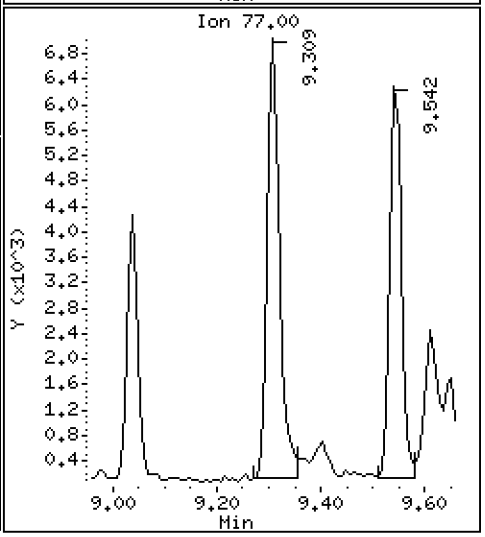


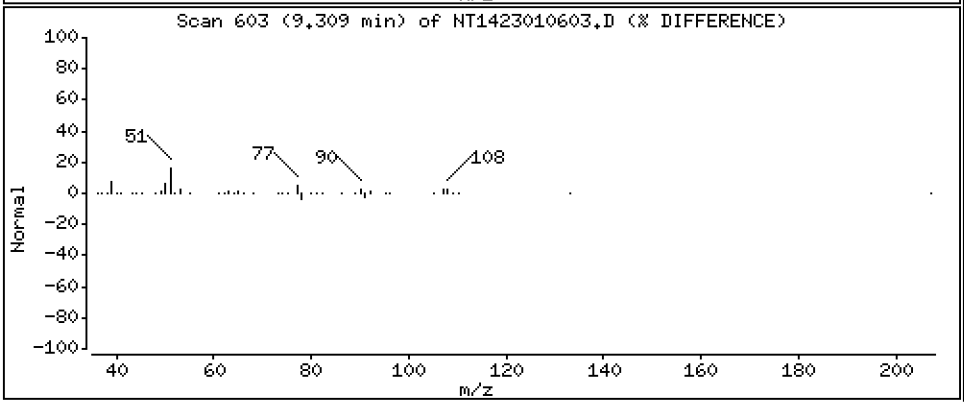












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

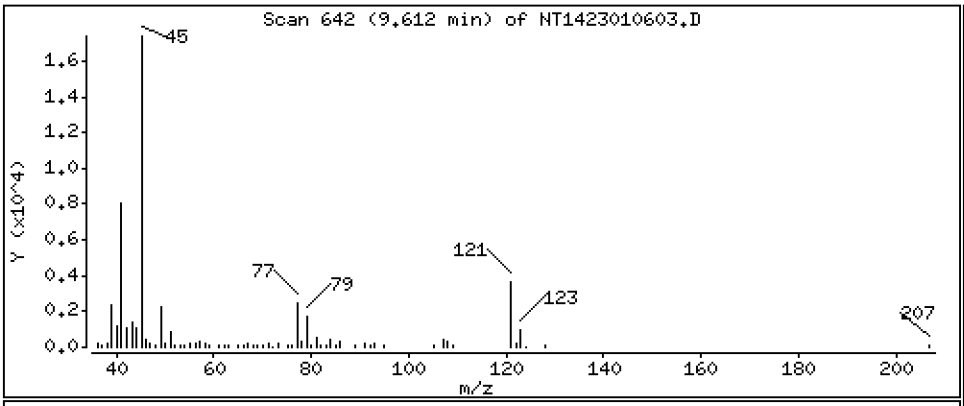
Operator: VTS

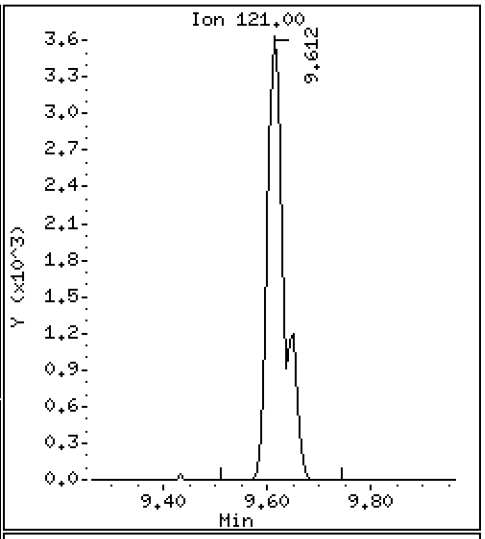
Column phase: ZB-5msi

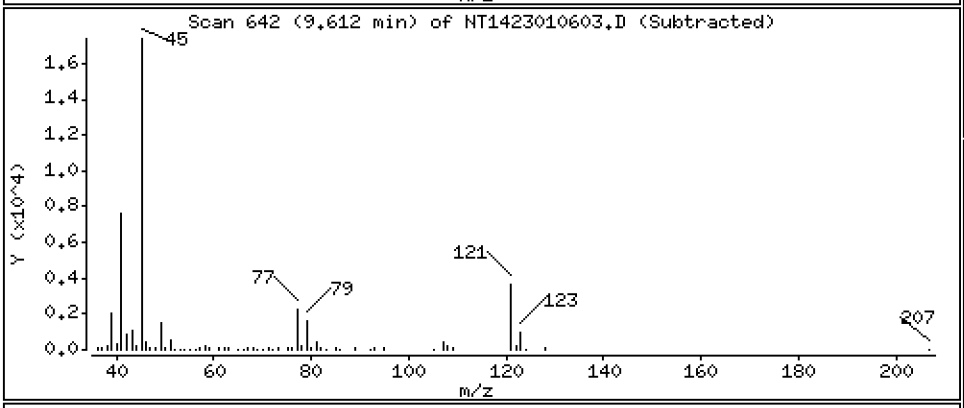
Column diameter: 0.25

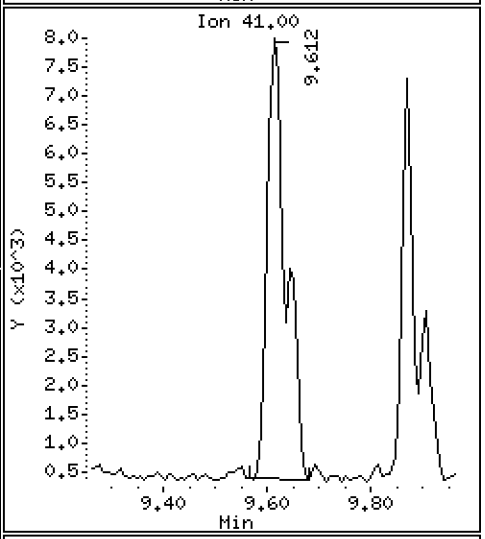
14 2,2'-oxybis(1-Chloropropane)

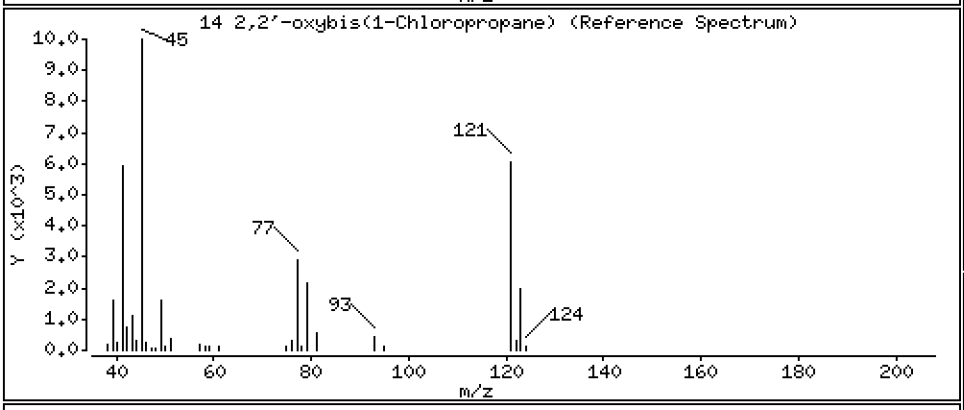
Concentration: 0.5082 ug/mL

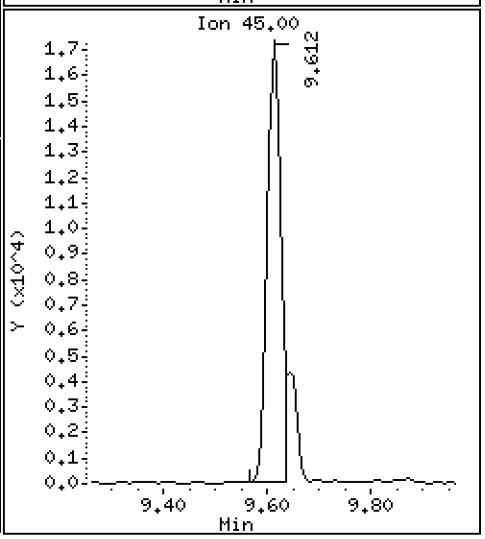


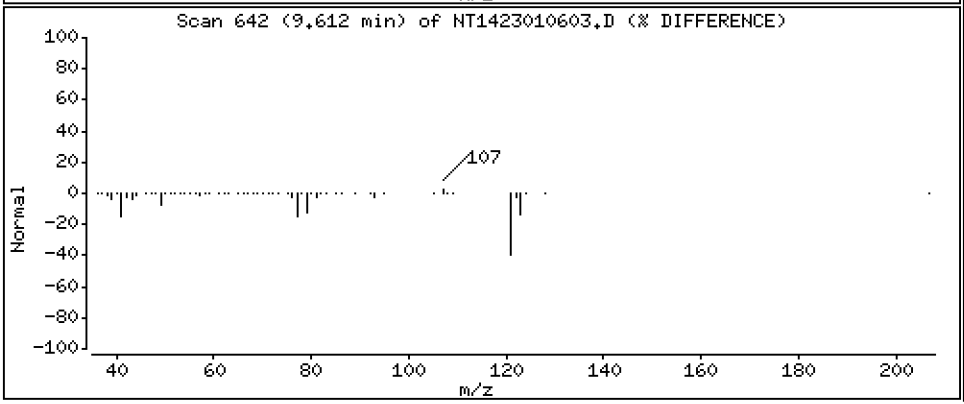












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

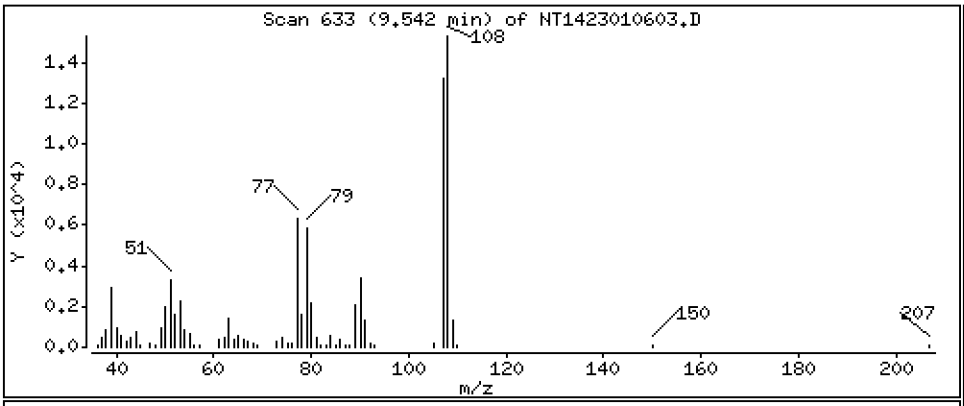
Operator: VTS

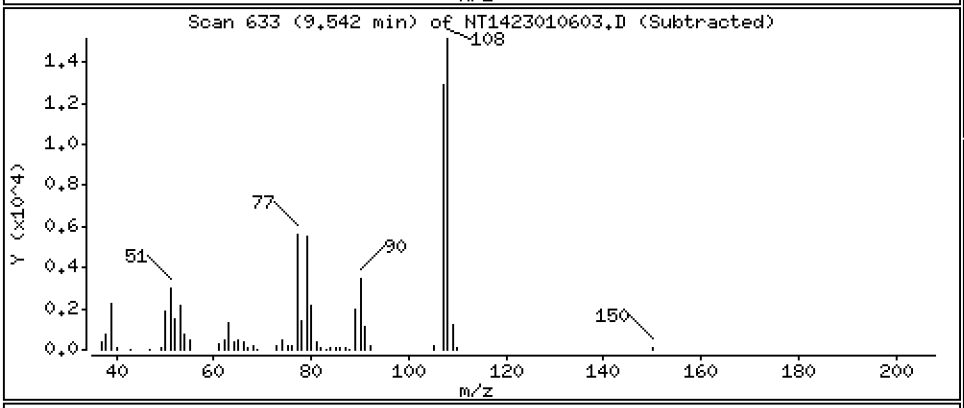
Column phase: ZB-5msi

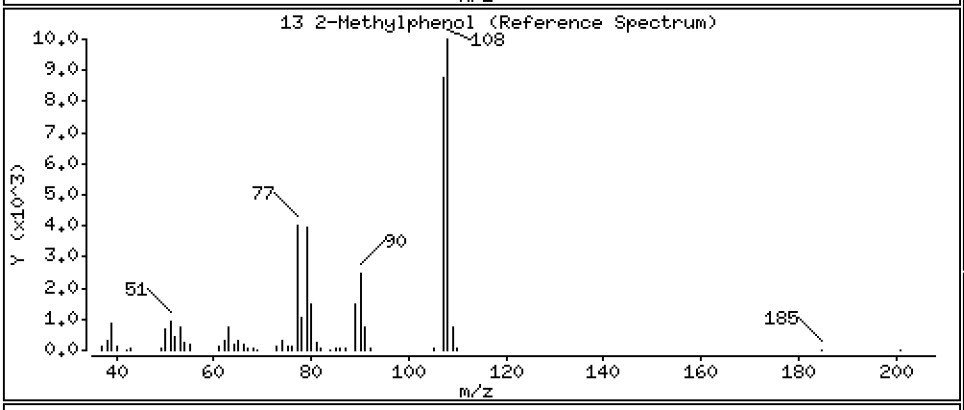
Column diameter: 0.25

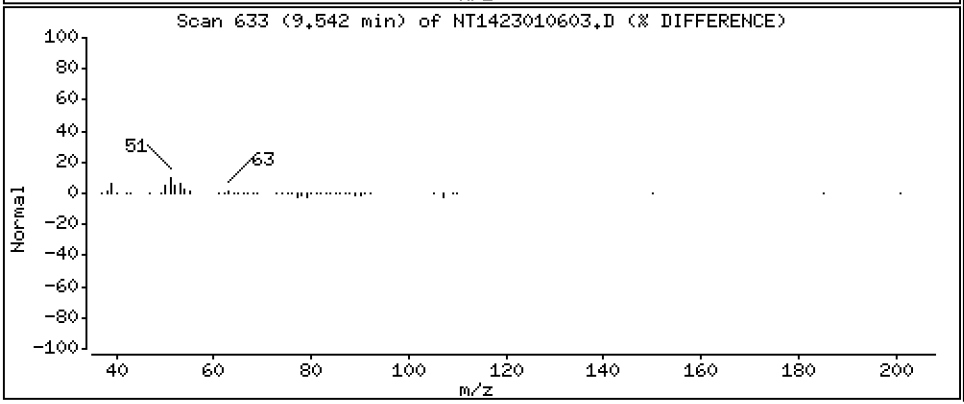
13 2-Methylphenol

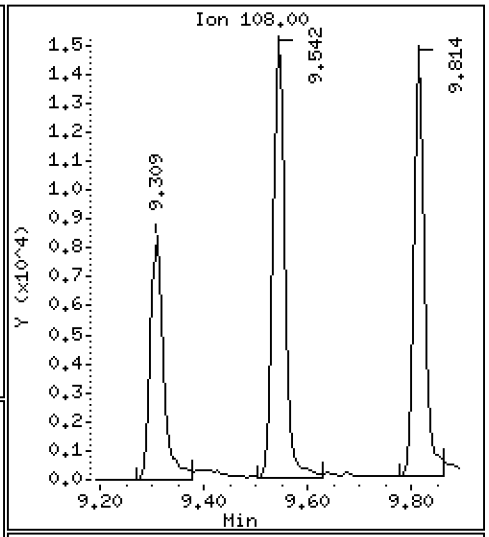
Concentration: 0.4295 ug/mL

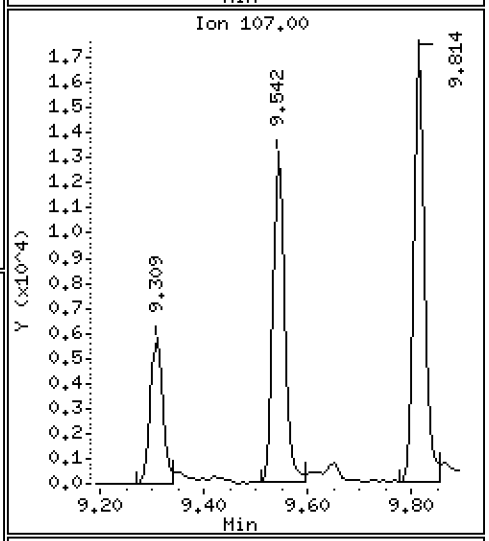


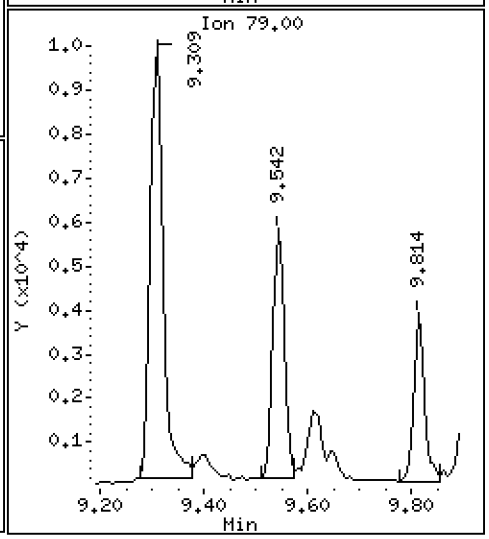












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

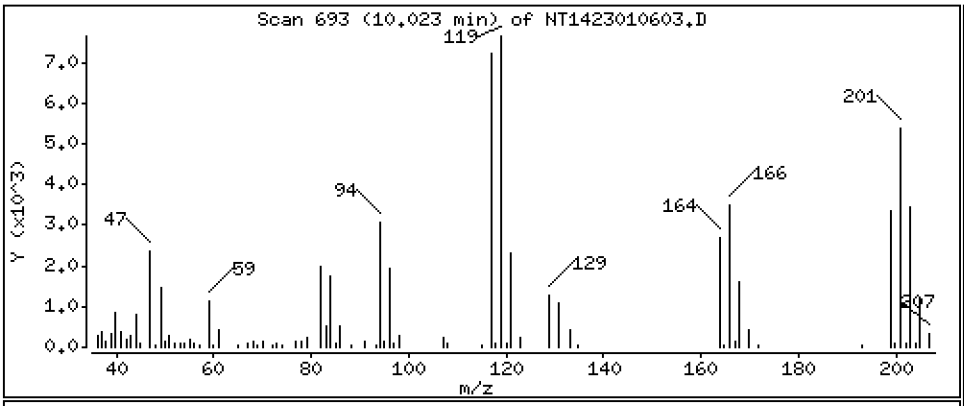
Operator: VTS

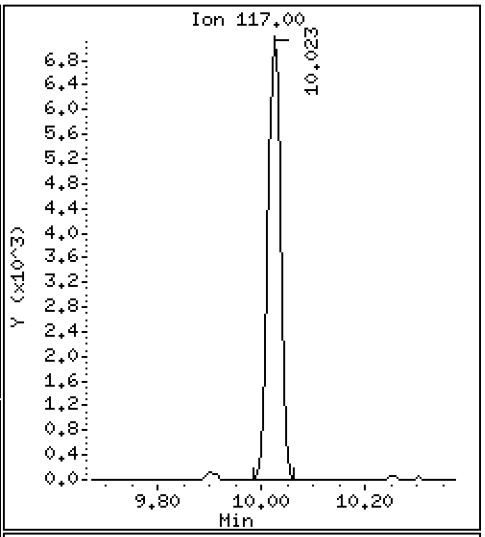
Column phase: ZB-5msi

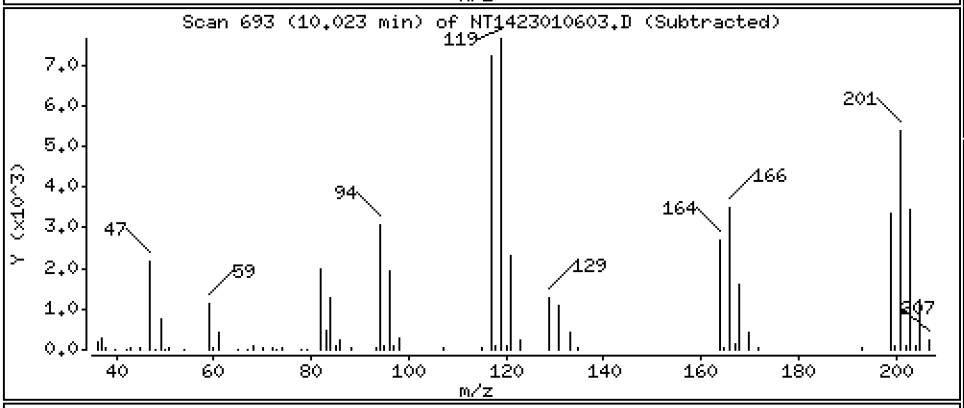
Column diameter: 0.25

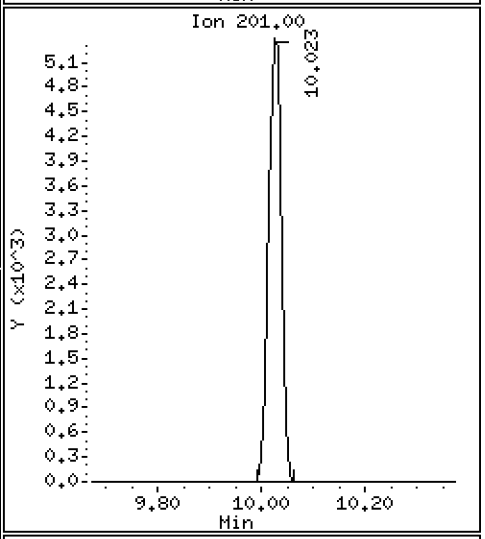
17 Hexachloroethane

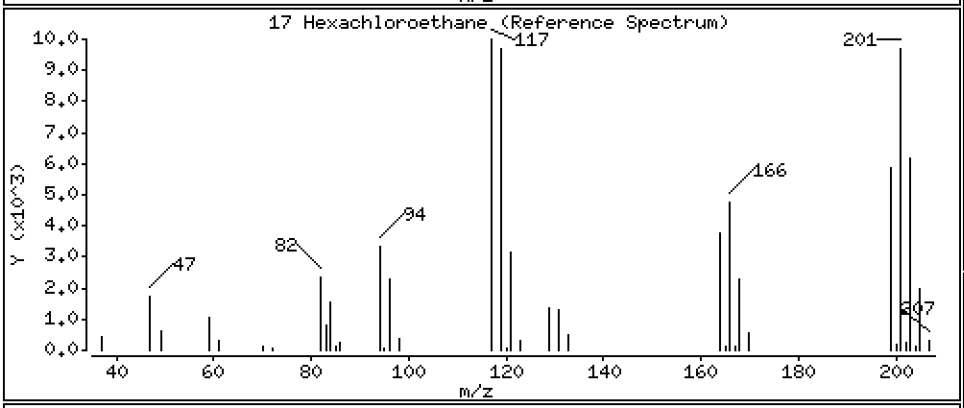
Concentration: 0.5235 ug/mL

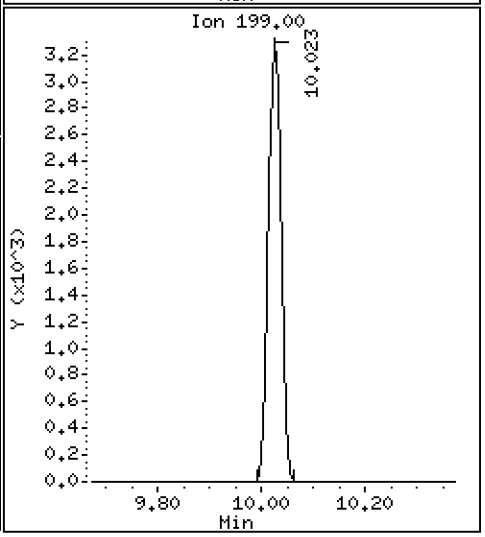


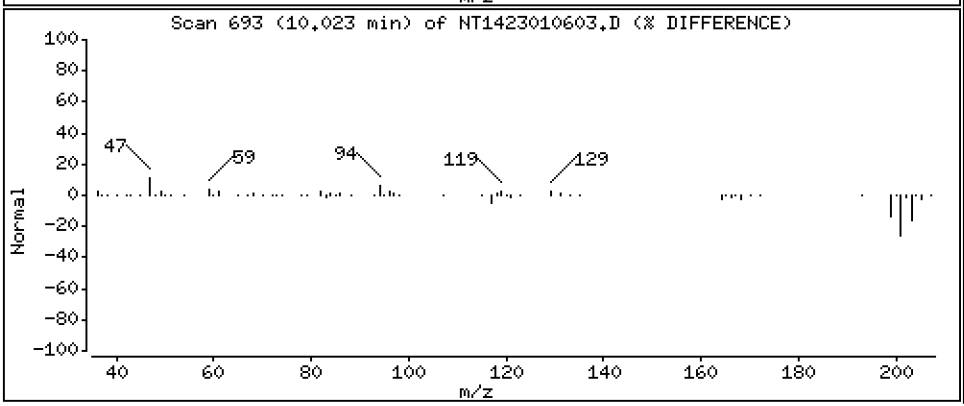












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

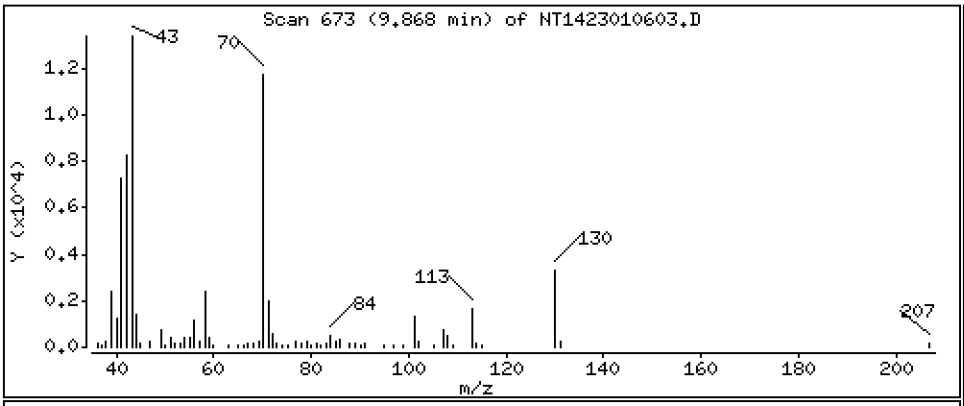
Operator: VTS

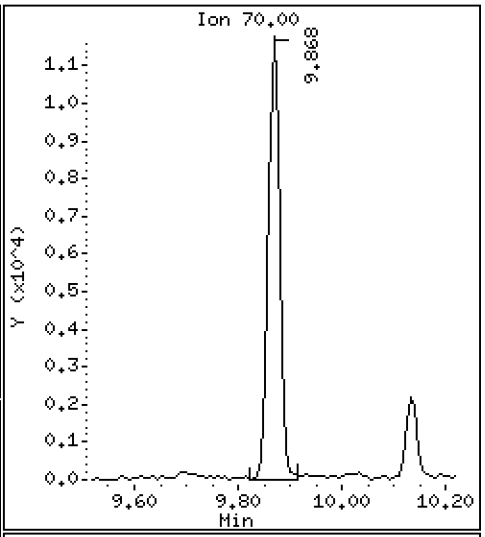
Column phase: ZB-5msi

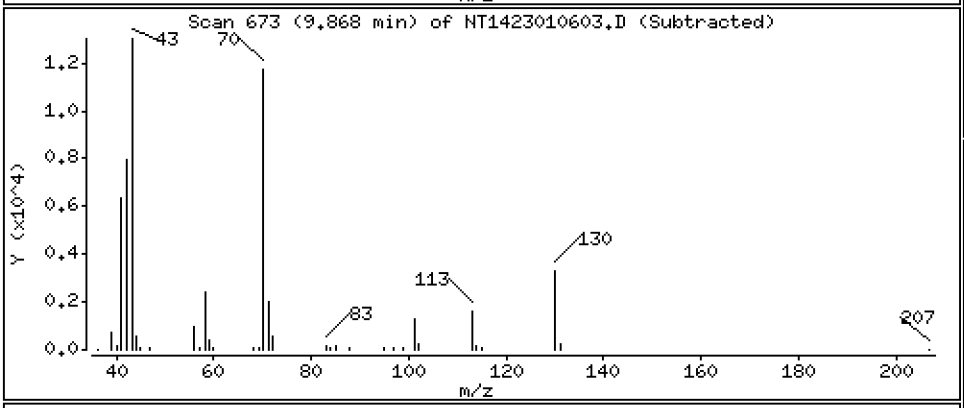
Column diameter: 0.25

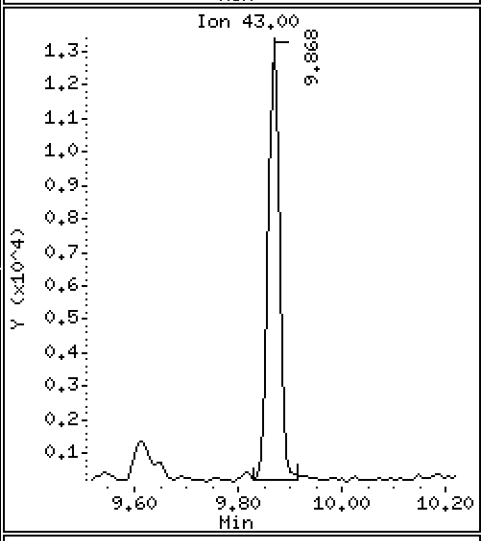
16 N-Nitroso-di-n-propylamine

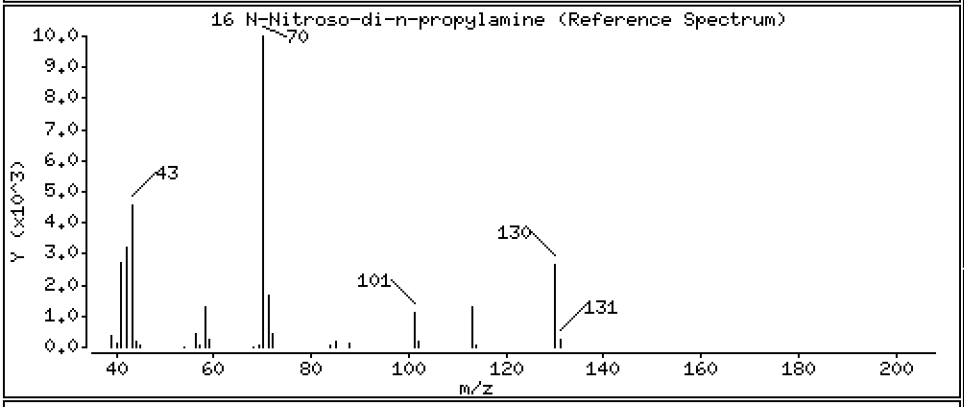
Concentration: 0.5254 ug/mL

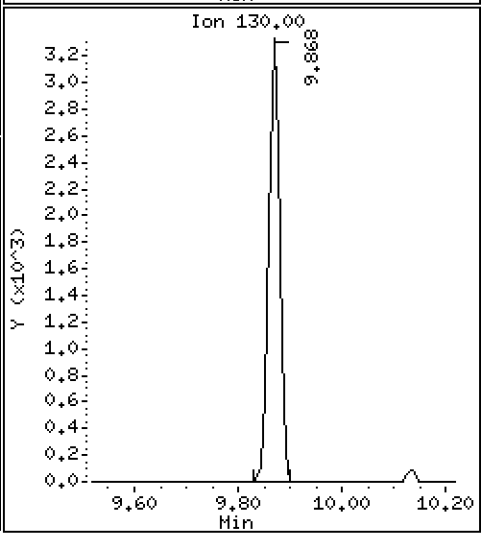


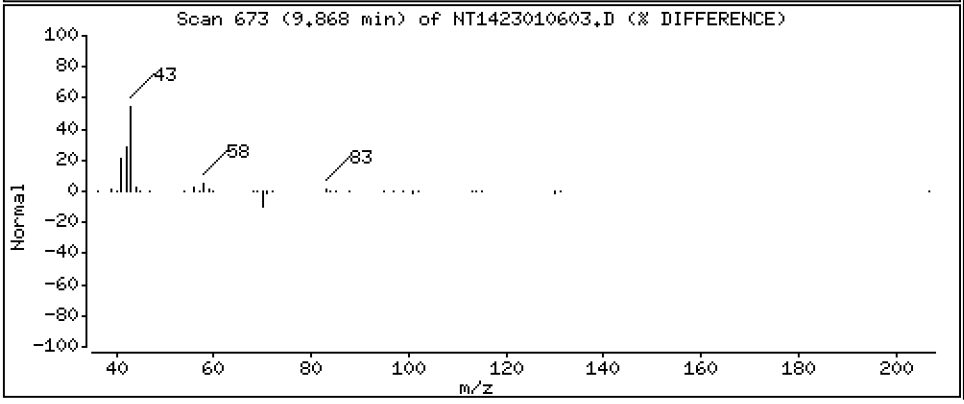












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

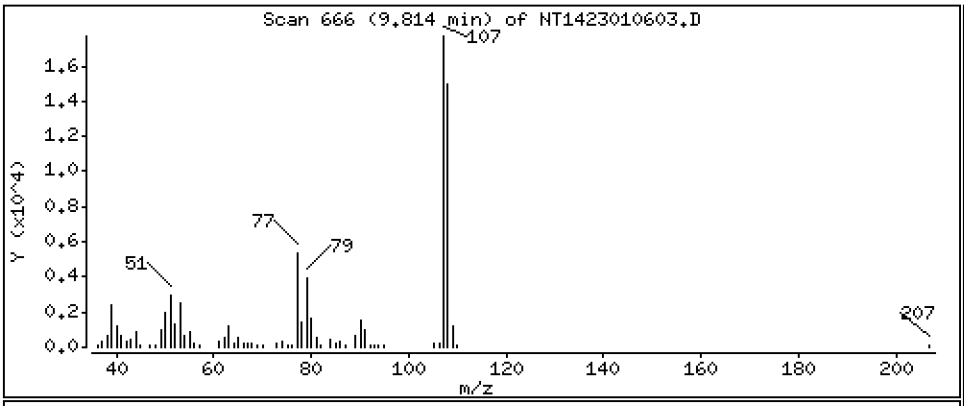
Operator: VTS

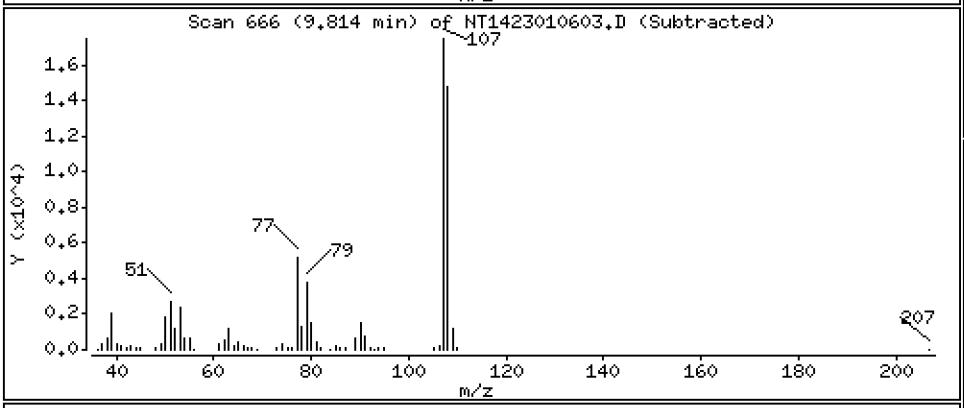
Column phase: ZB-5msi

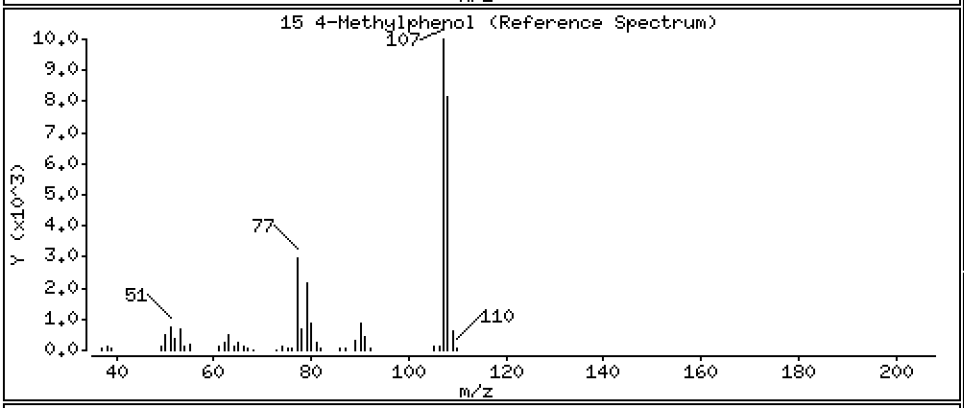
Column diameter: 0.25

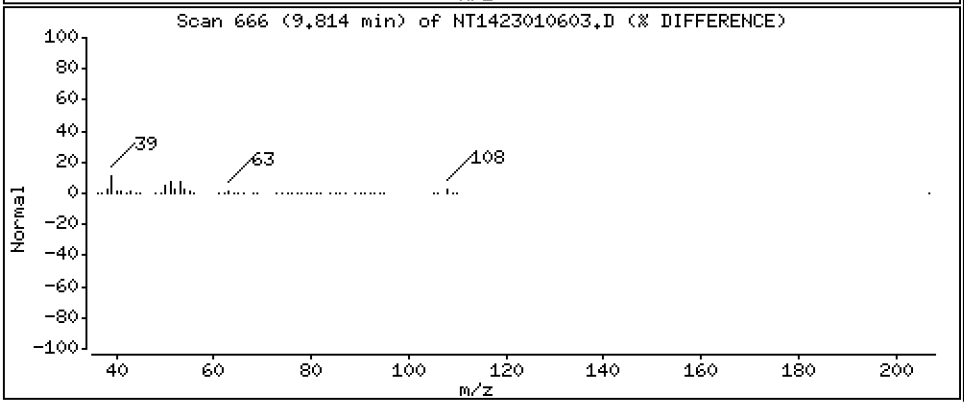
15 4-Methylphenol

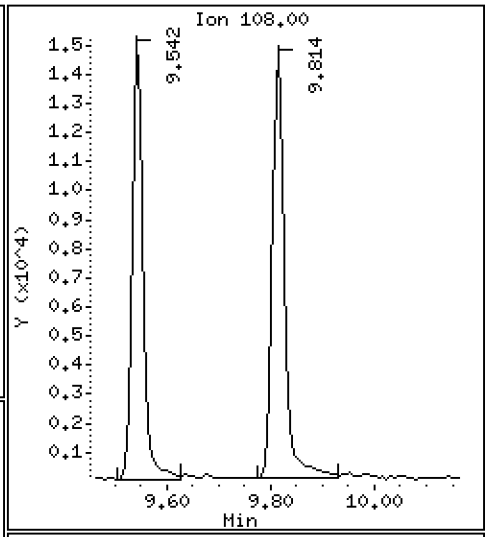
Concentration: 0.4019 ug/mL

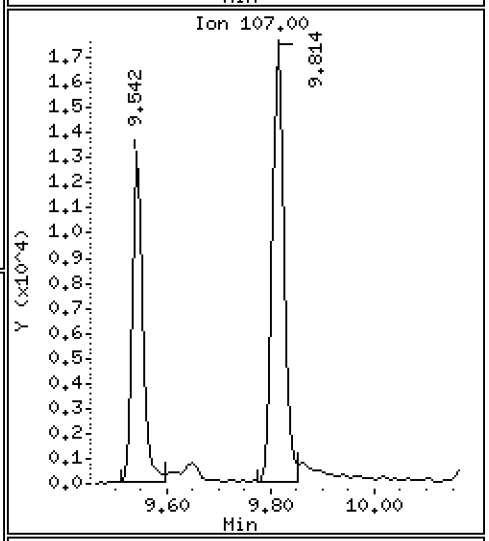


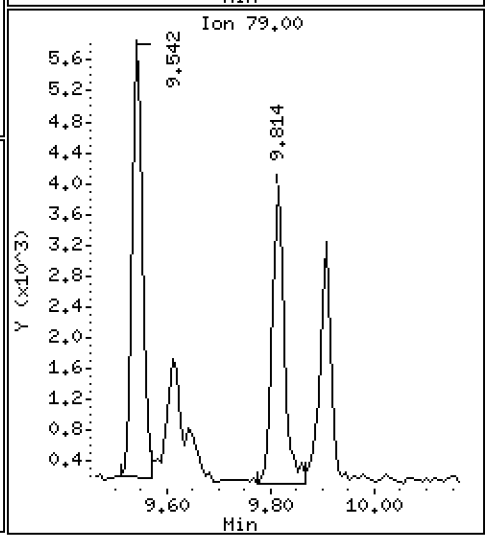












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

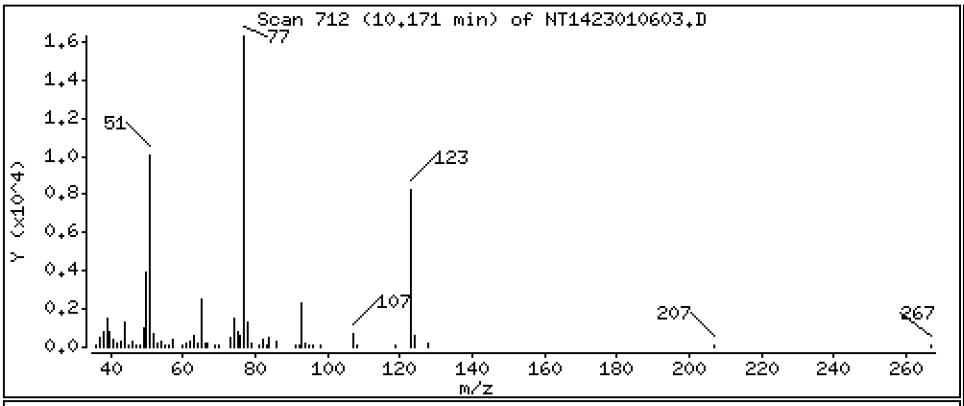
Operator: VTS

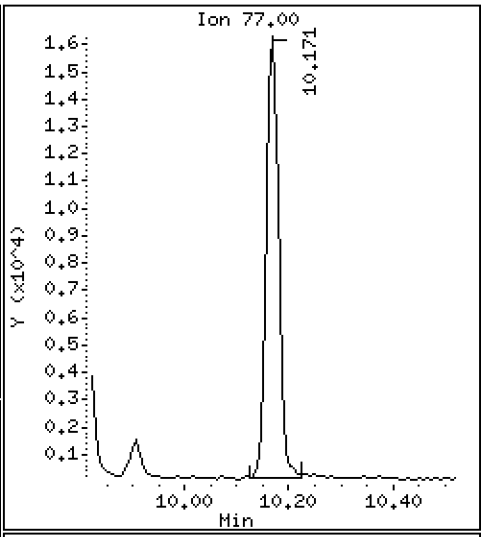
Column phase: ZB-5msi

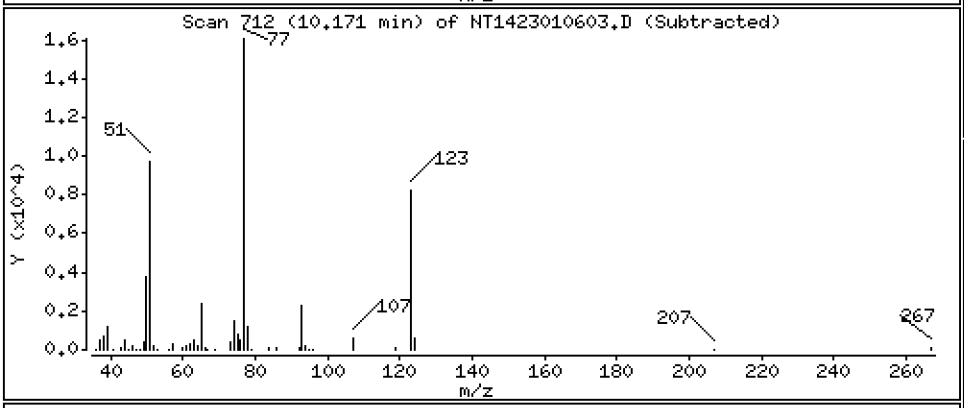
Column diameter: 0.25

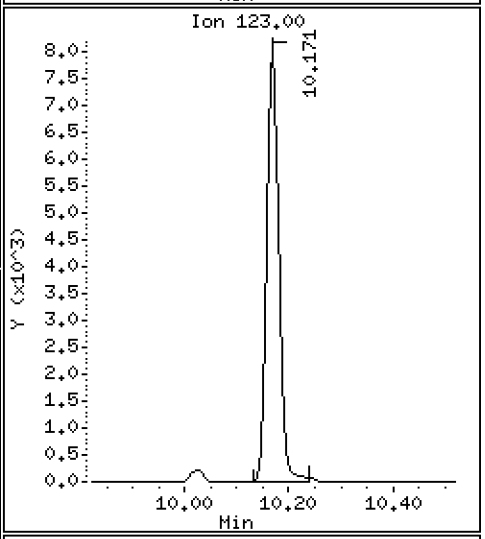
19 Nitrobenzene

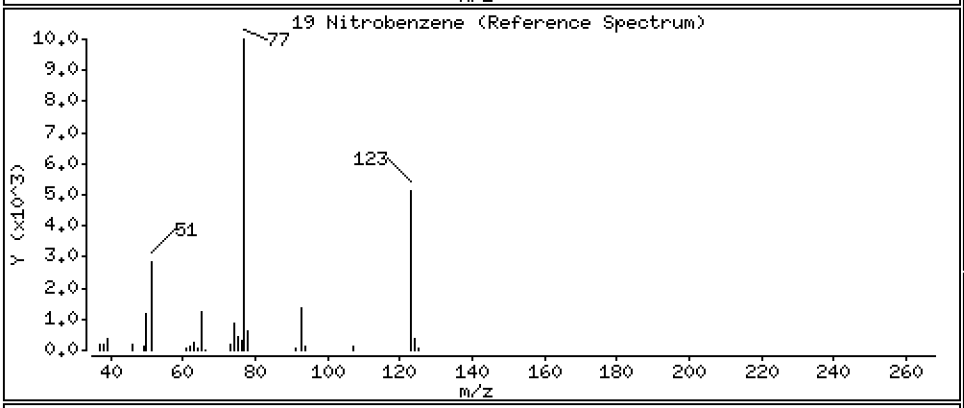
Concentration: 0.4876 ug/mL

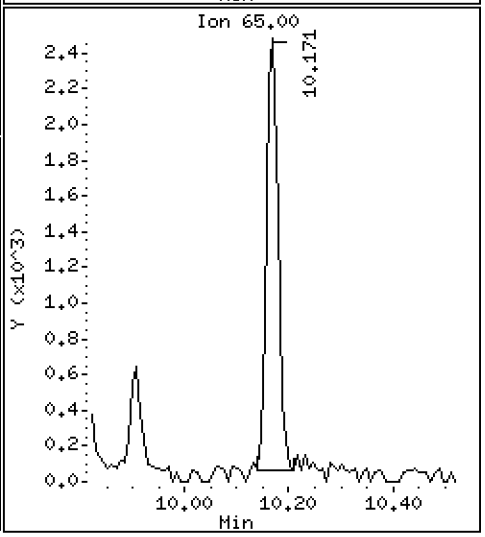


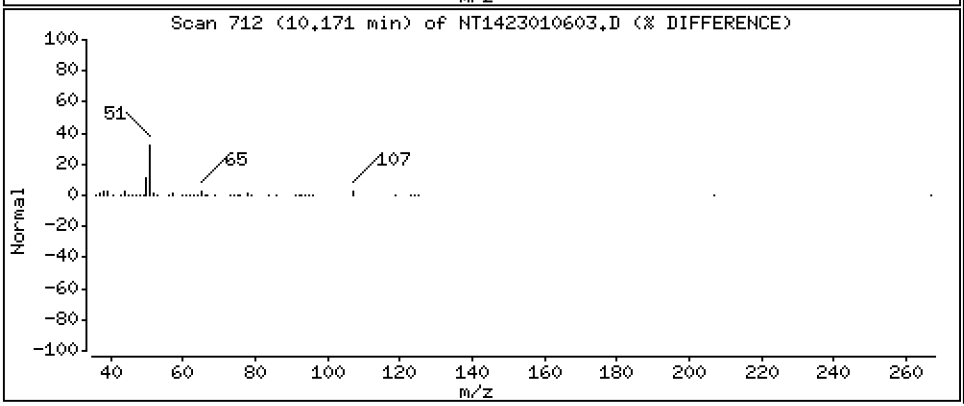












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

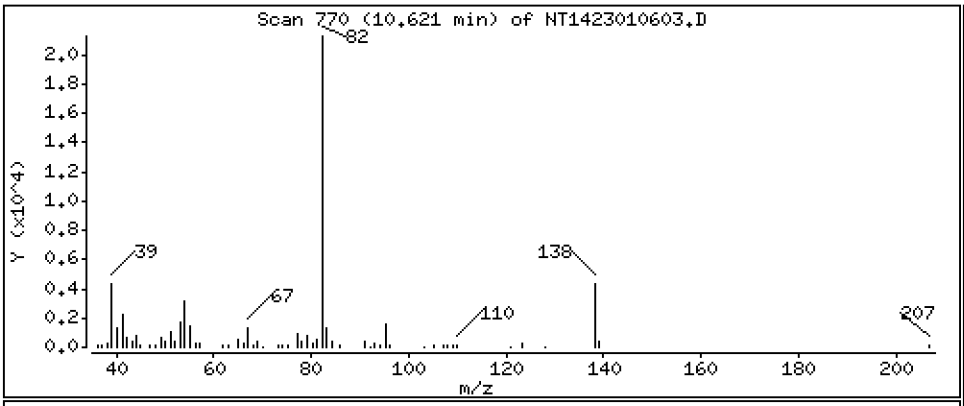
Operator: VTS

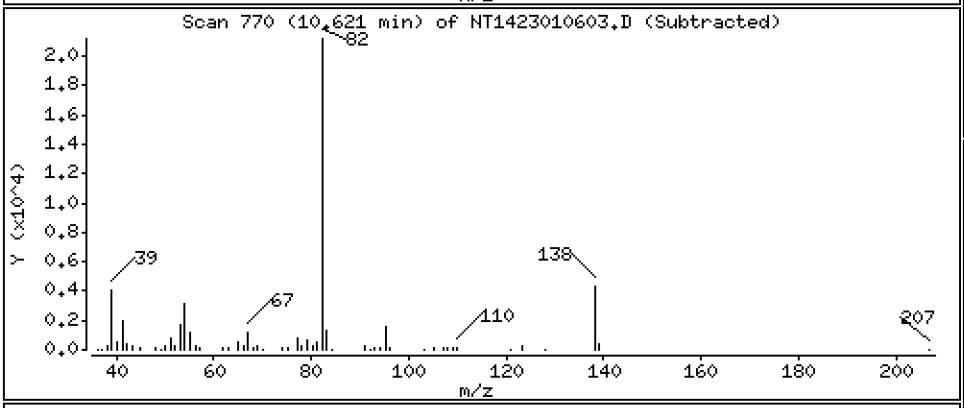
Column phase: ZB-5msi

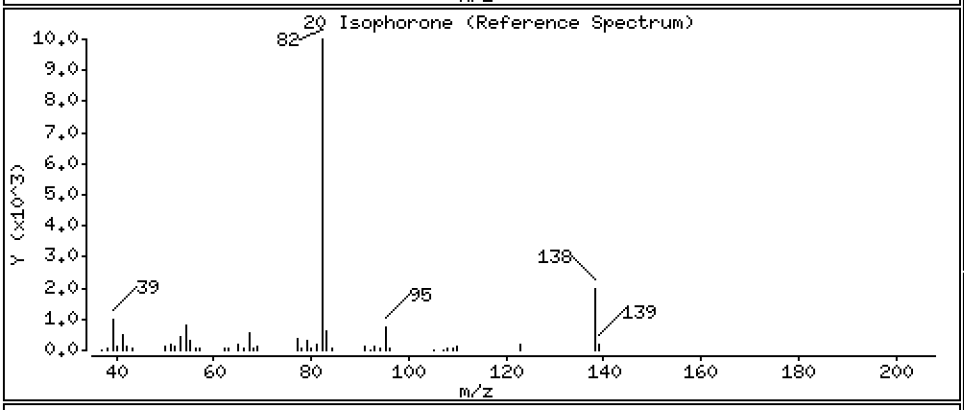
Column diameter: 0.25

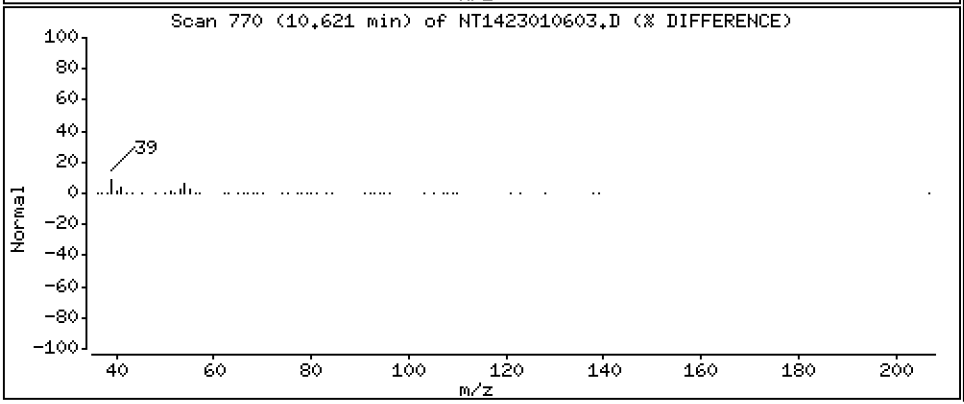
20 Isophorone

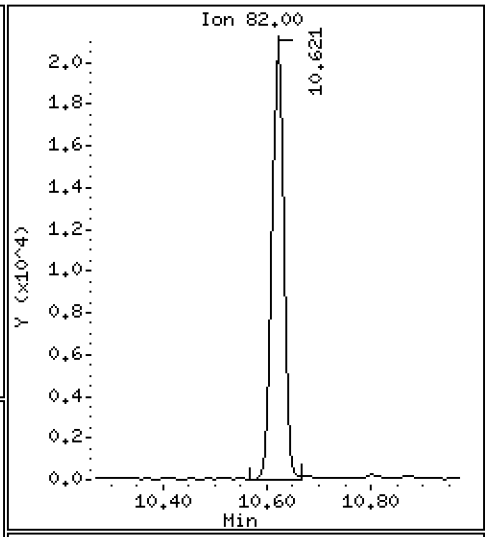
Concentration: 0.4725 ug/mL

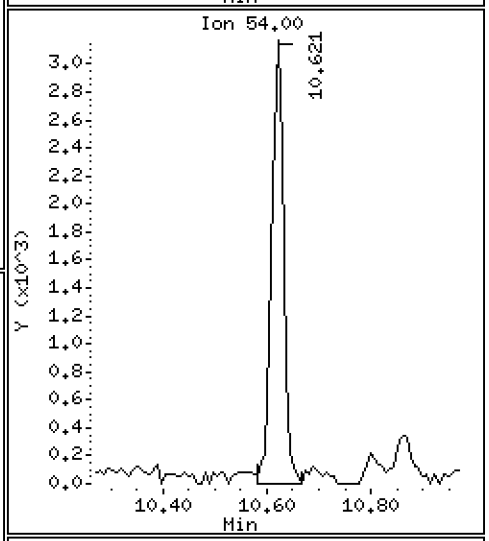


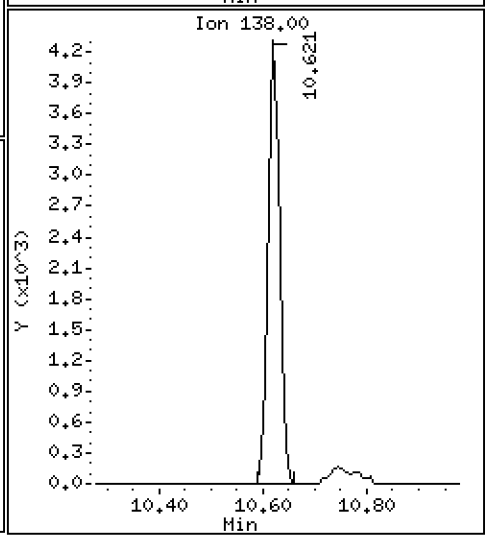












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

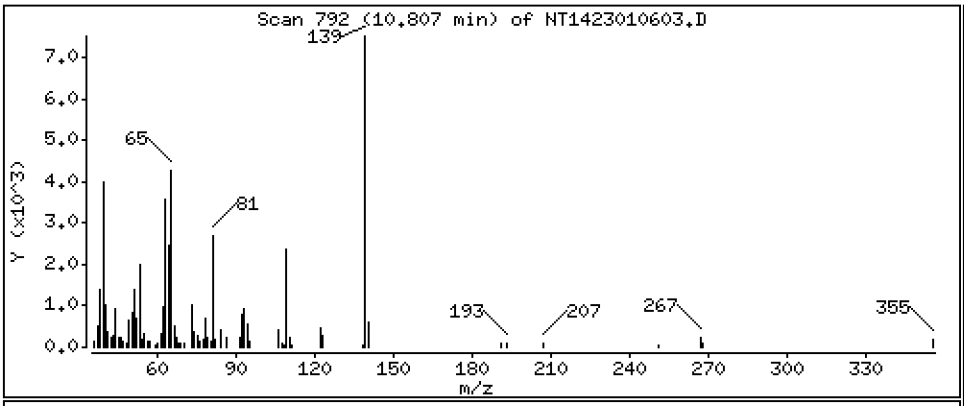
Operator: VTS

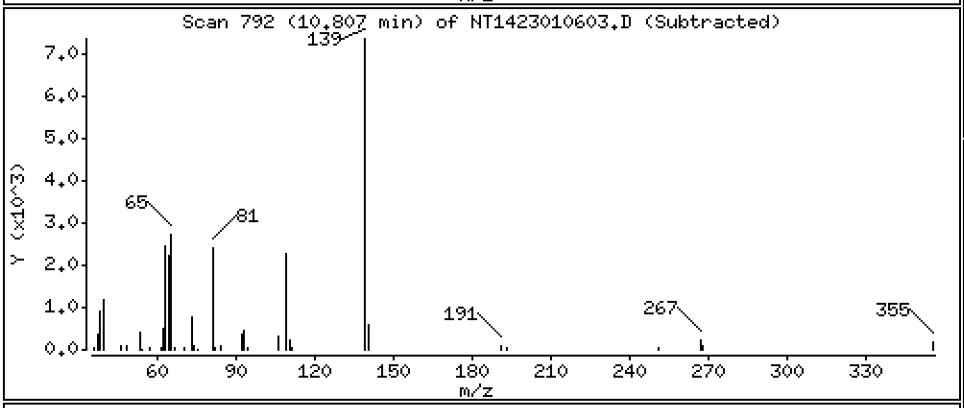
Column phase: ZB-5msi

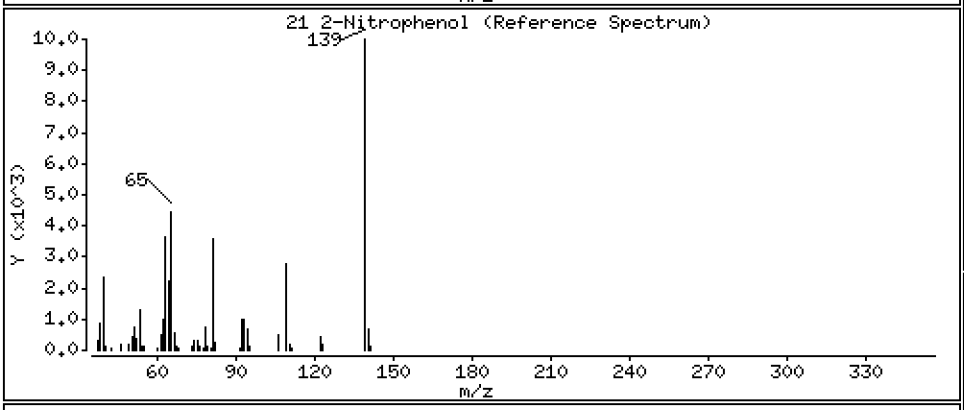
Column diameter: 0.25

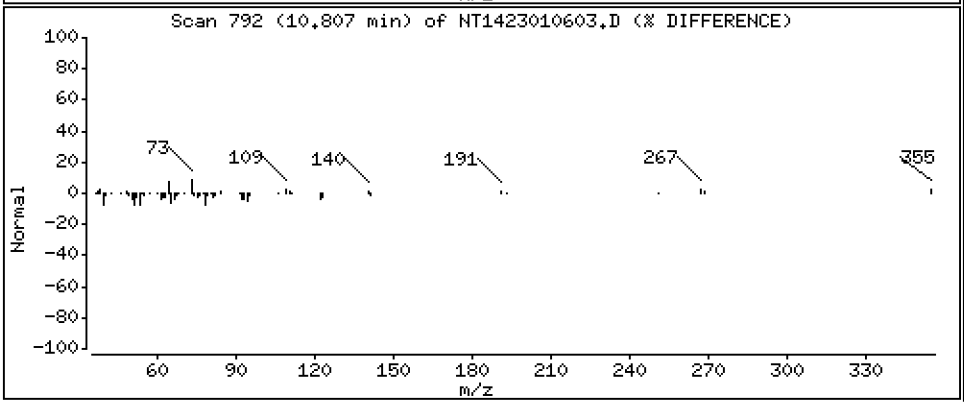
21 2-Nitrophenol

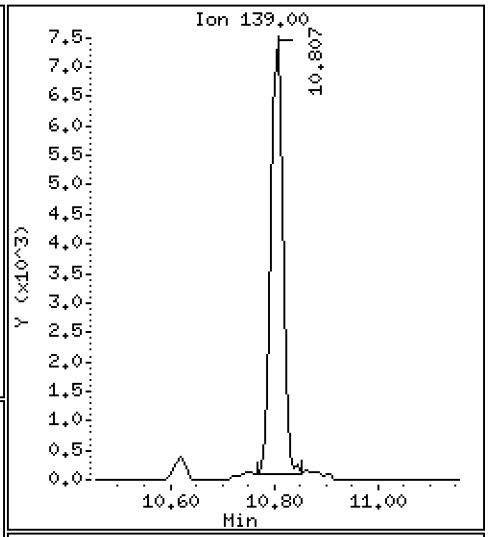
Concentration: 0.3523 ug/mL

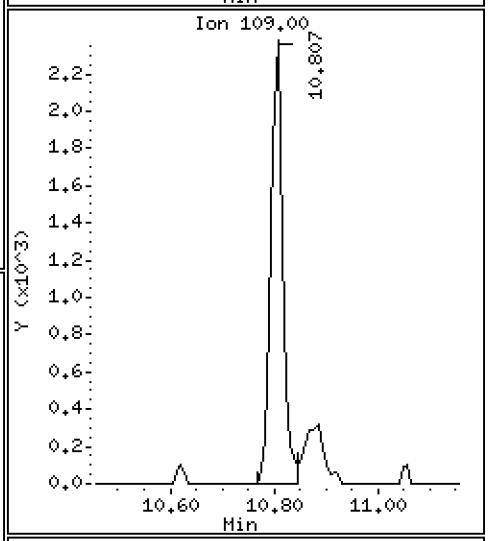


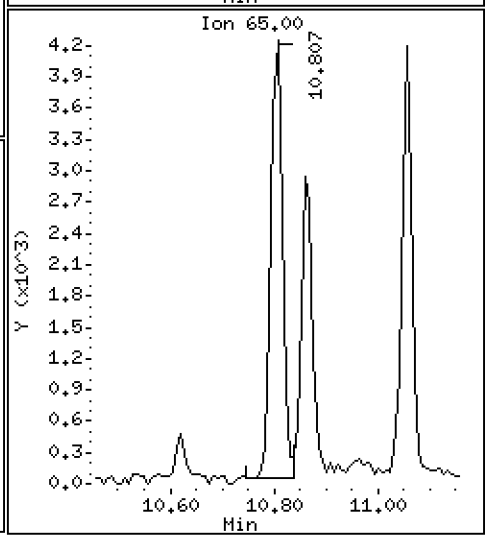












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

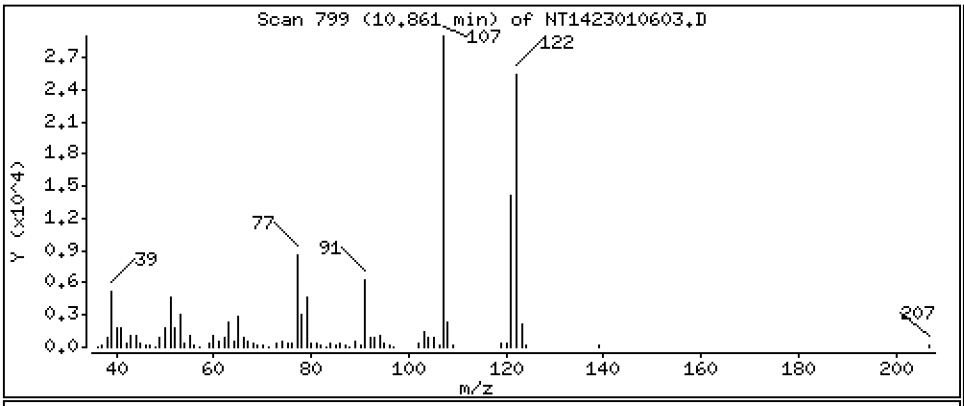
Operator: VTS

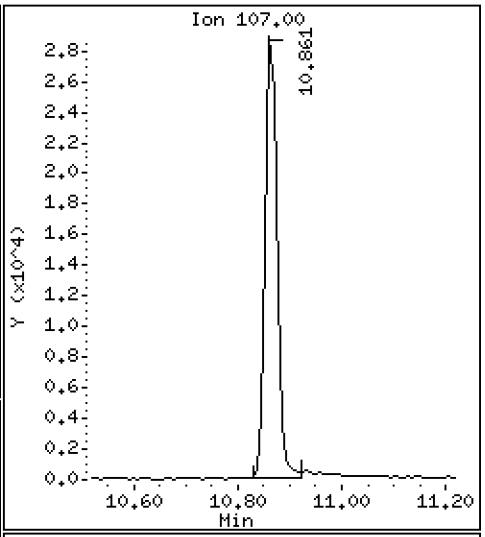
Column phase: ZB-5msi

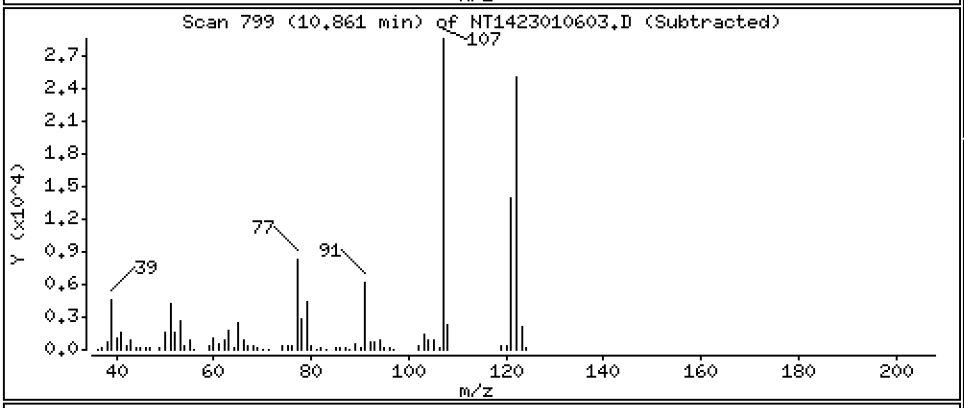
Column diameter: 0.25

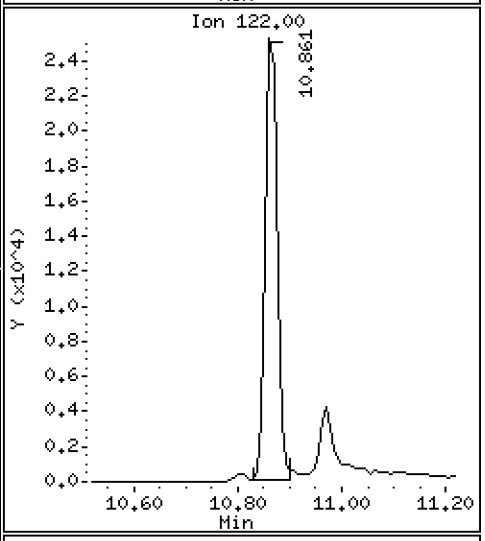
22 2,4-Dimethylphenol

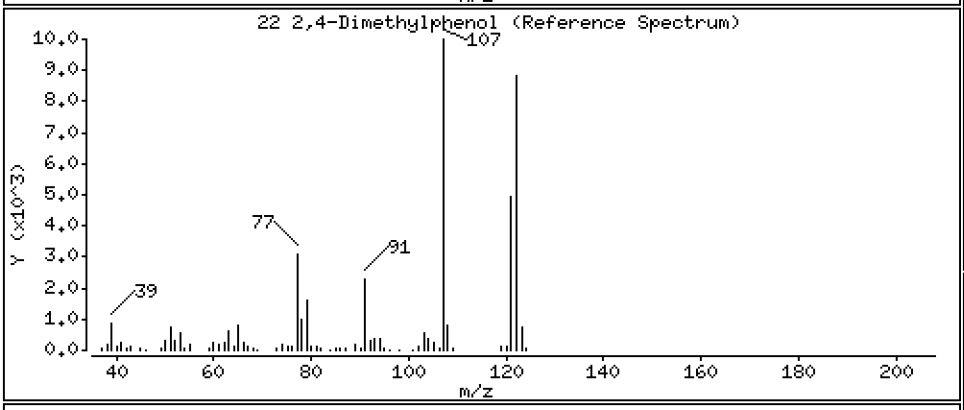
Concentration: 0.7958 ug/mL

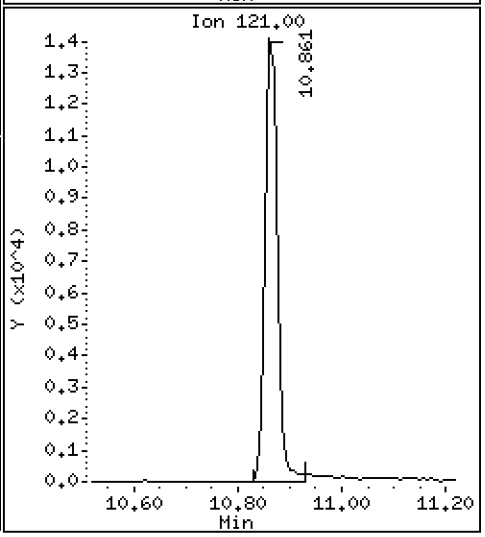


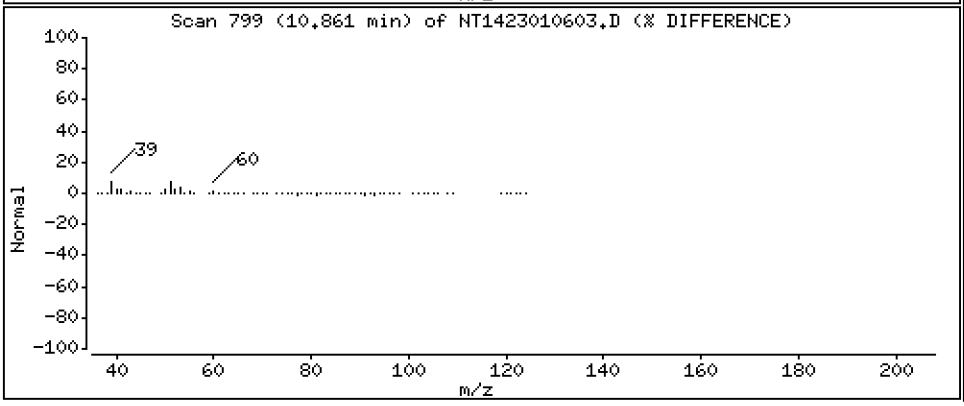












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

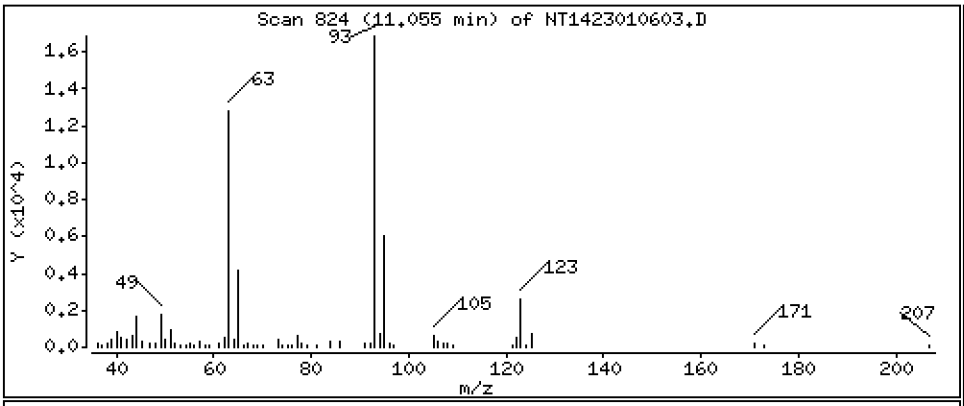
Operator: VTS

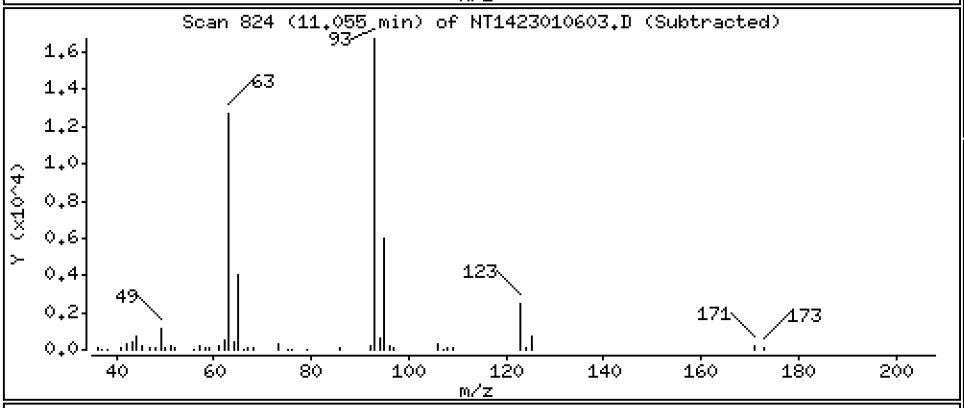
Column phase: ZB-5msi

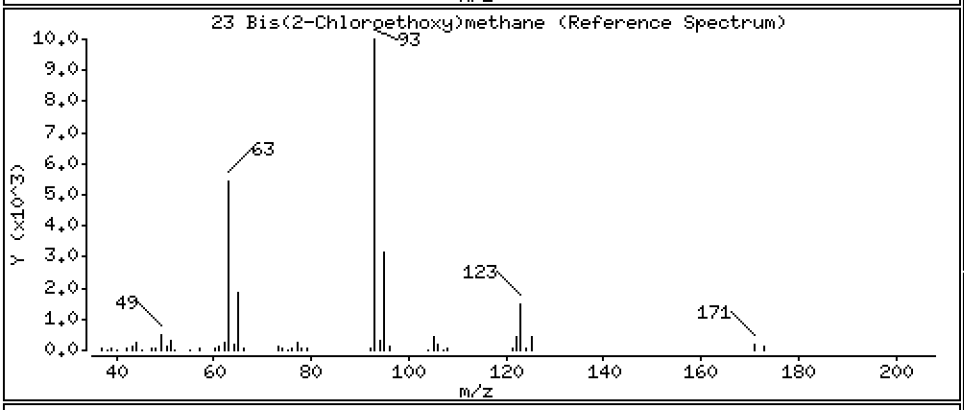
Column diameter: 0.25

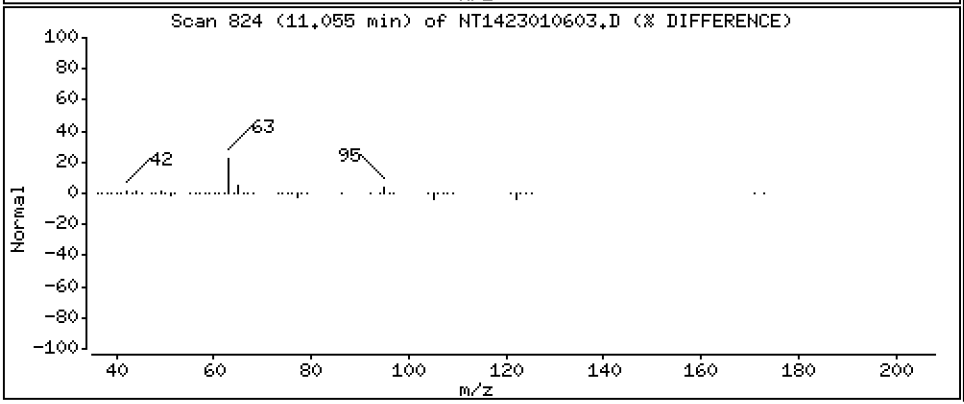
23 Bis(2-Chloroethoxy)methane

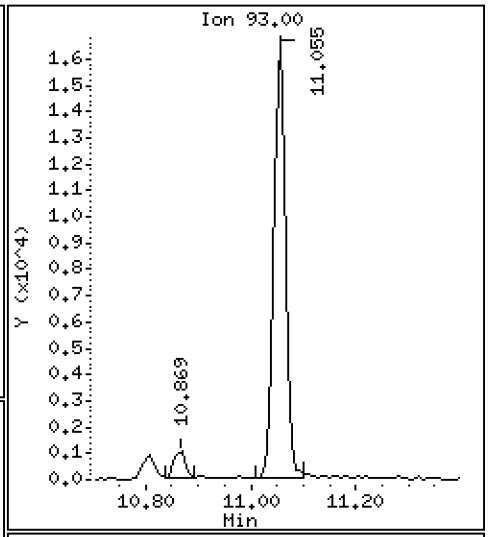
Concentration: 0.4713 ug/mL

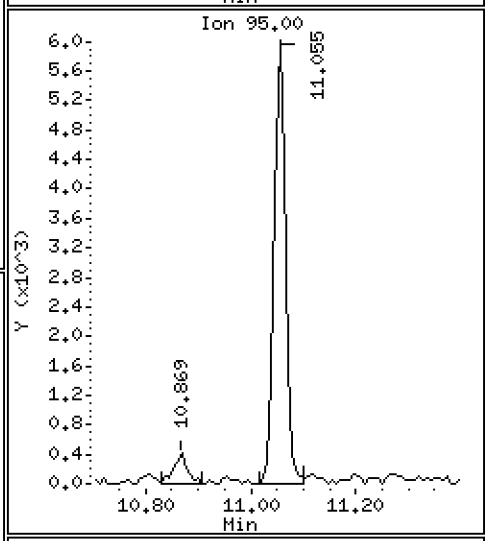


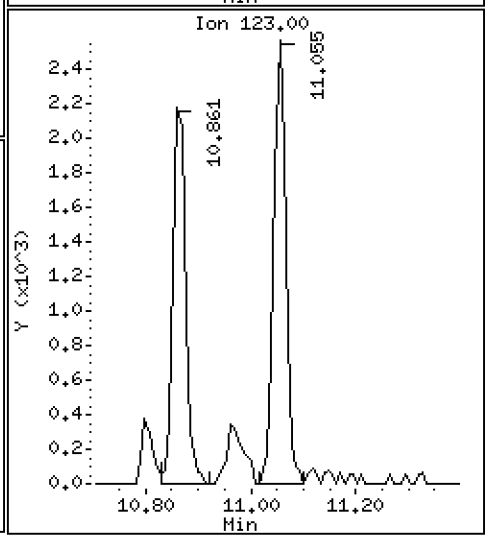












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

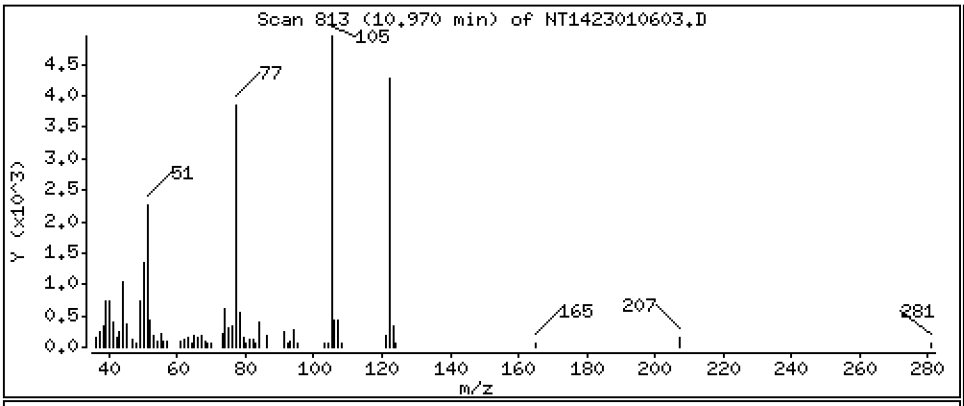
Operator: VTS

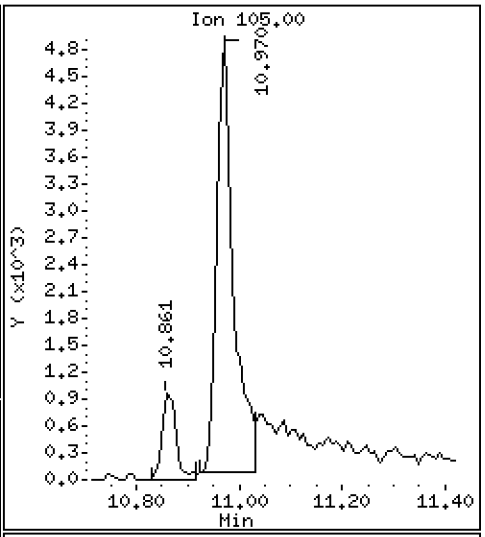
Column phase: ZB-5msi

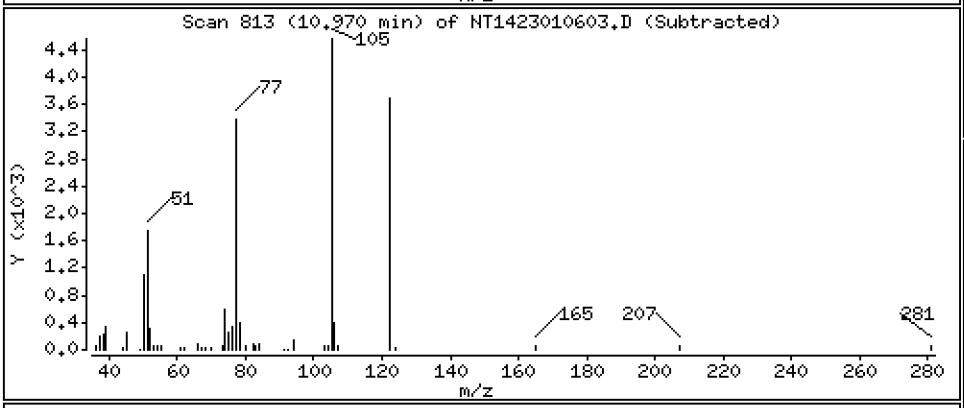
Column diameter: 0.25

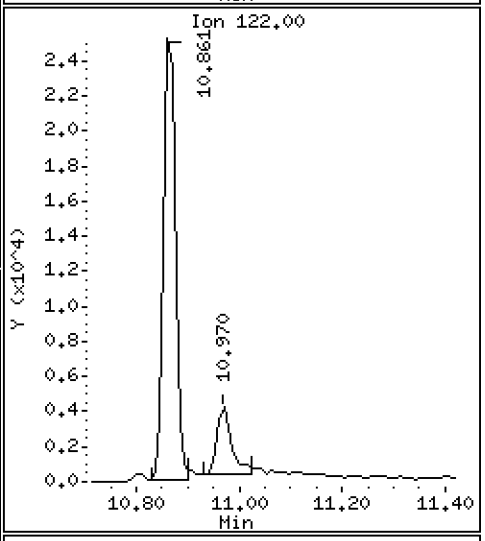
24 Benzoic acid

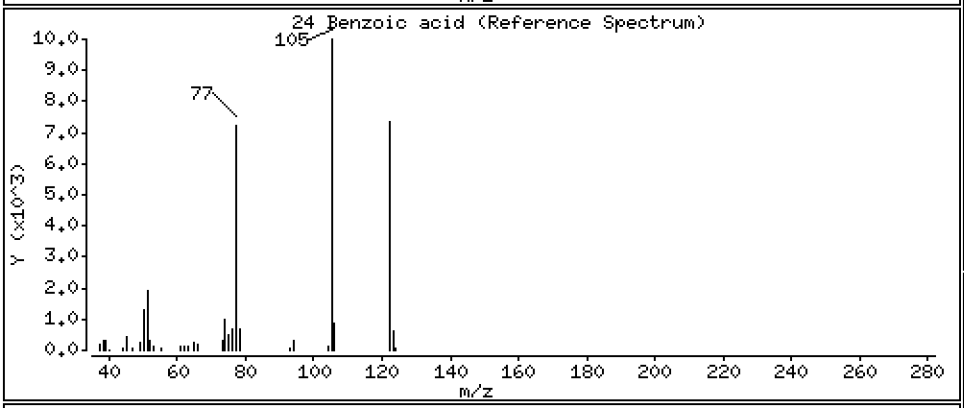
Concentration: 0.3198 ug/mL

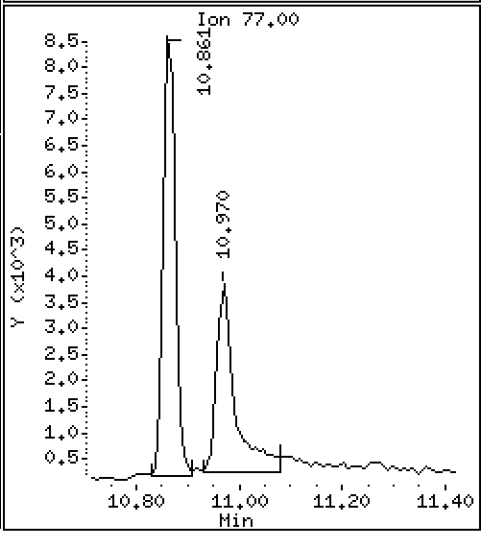


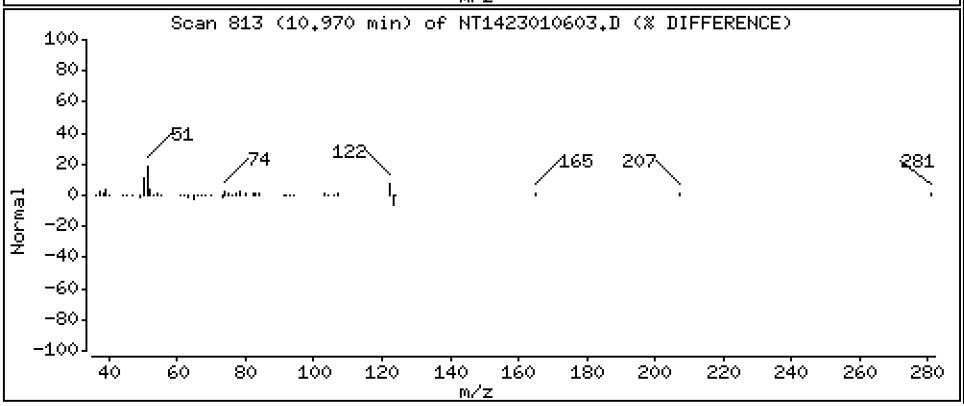












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

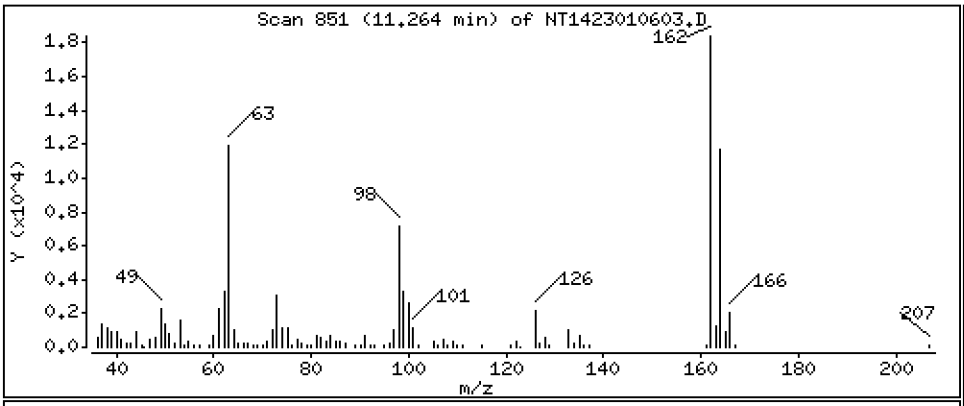
Operator: VTS

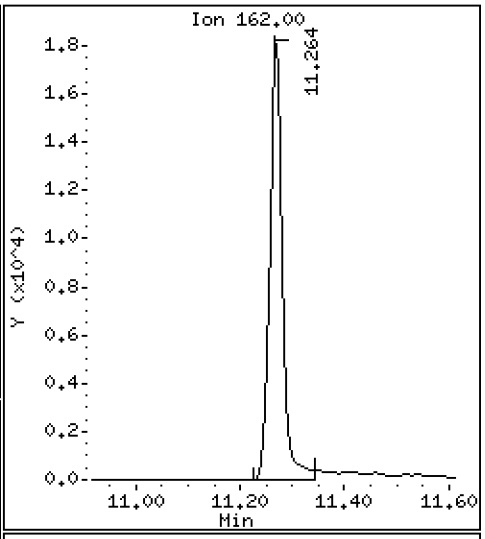
Column phase: ZB-5msi

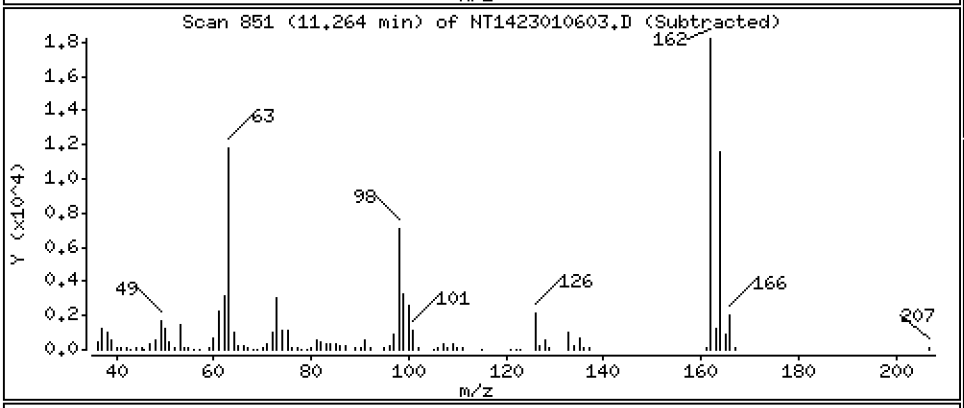
Column diameter: 0.25

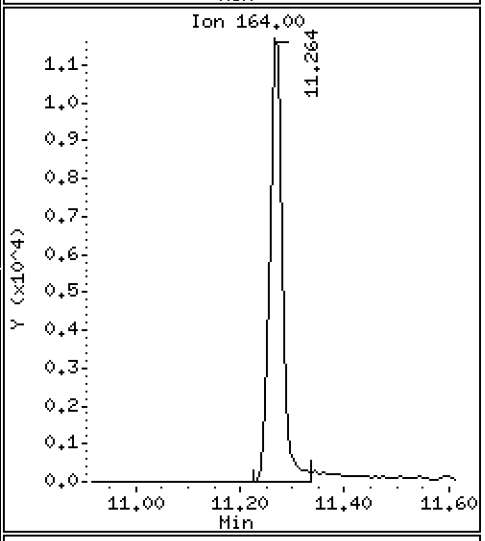
25 2,4-Dichlorophenol

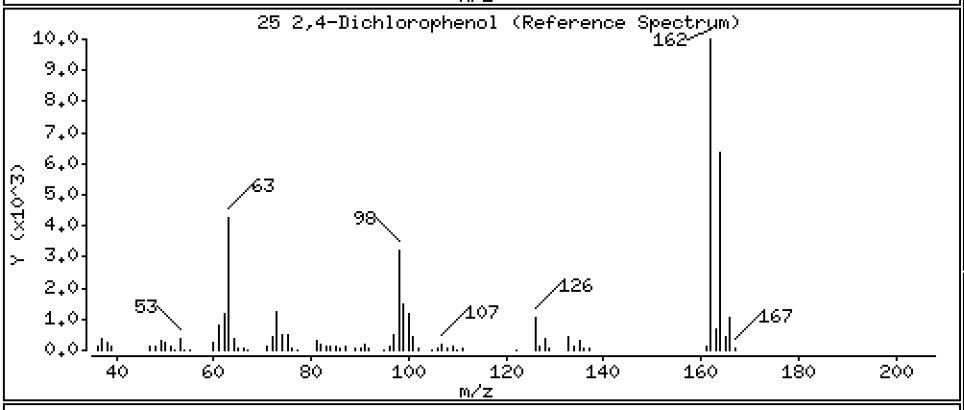
Concentration: 0.6742 ug/mL

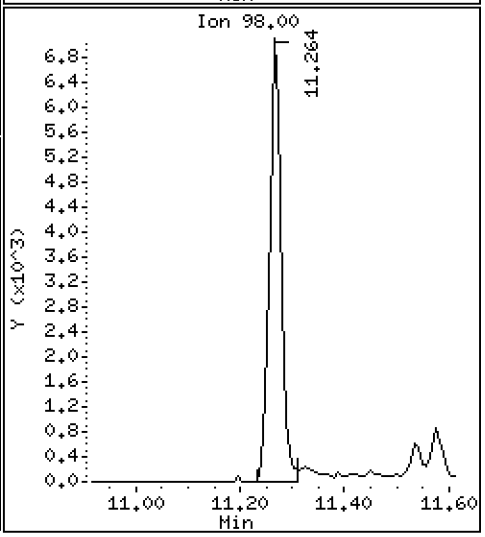


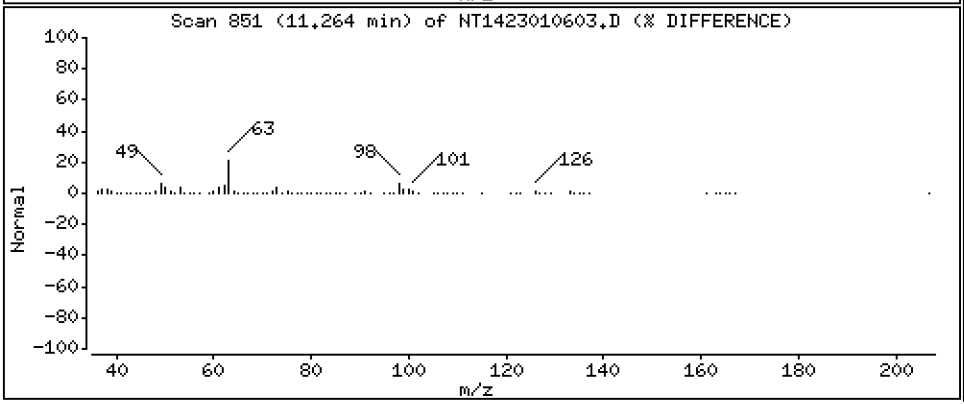












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

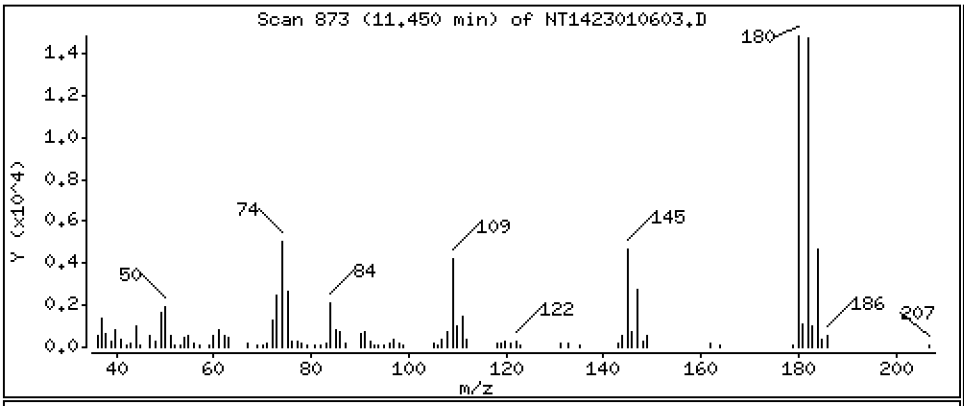
Operator: VTS

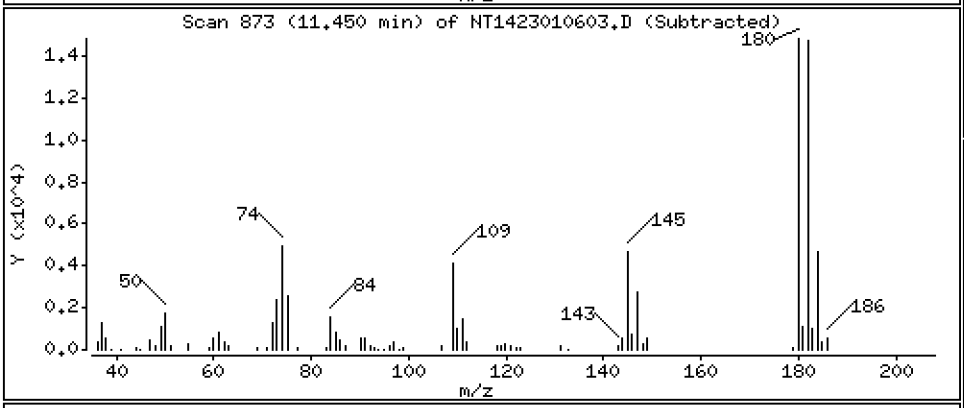
Column phase: ZB-5msi

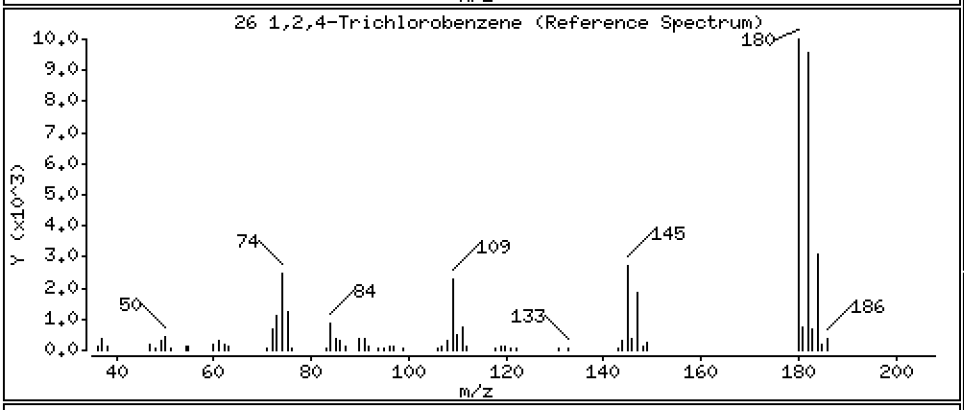
Column diameter: 0.25

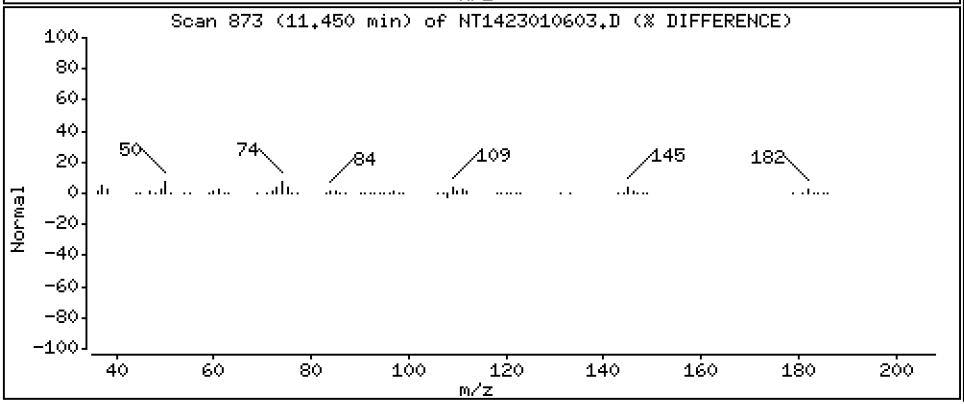
26 1,2,4-Trichlorobenzene

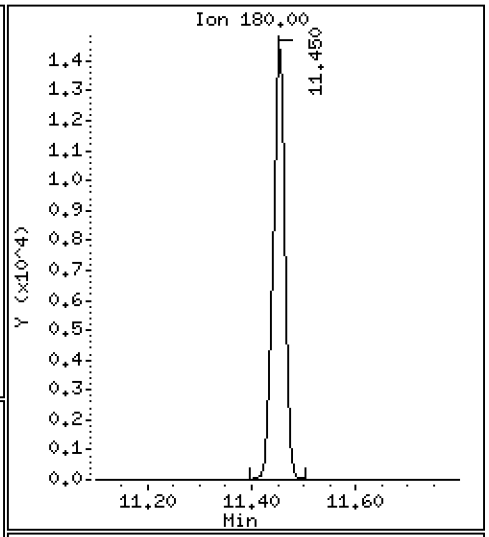
Concentration: 0.5347 ug/mL

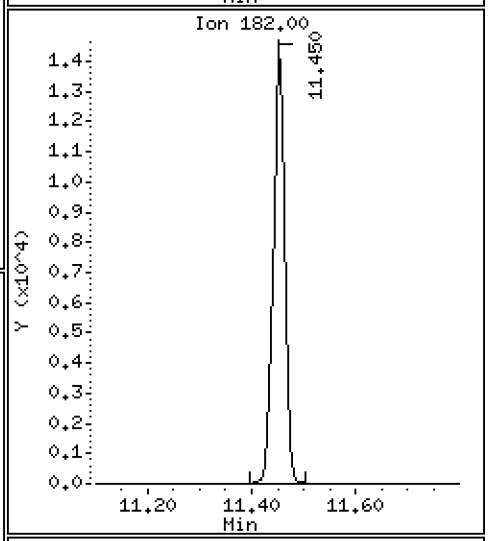


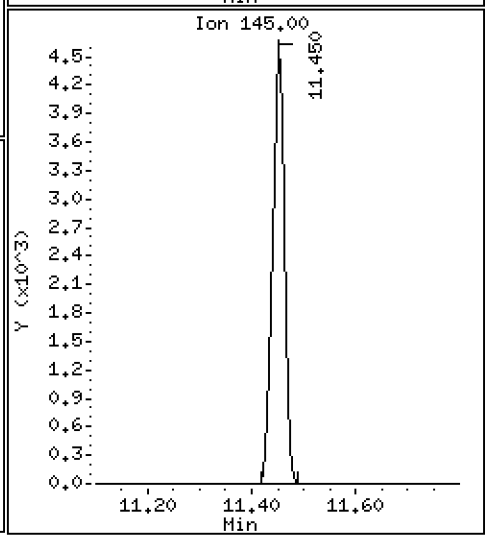












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

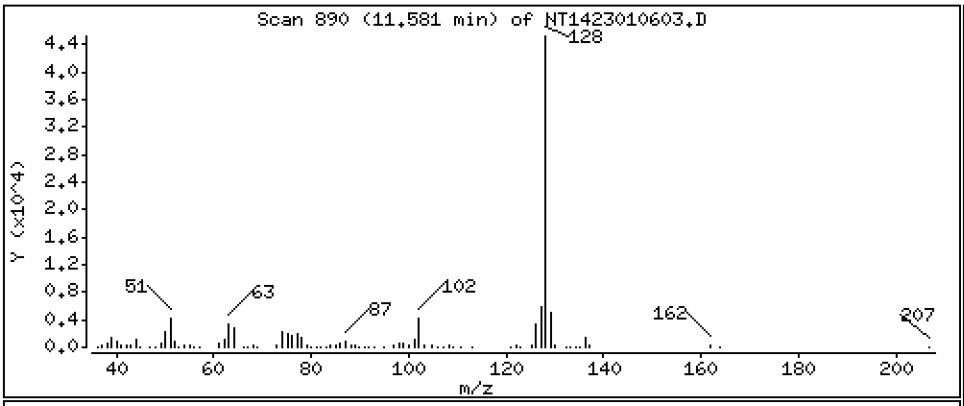
Operator: VTS

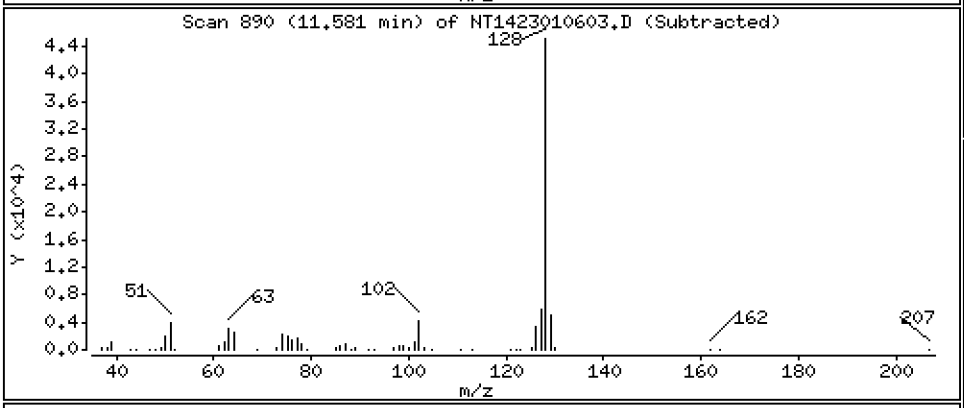
Column phase: ZB-5msi

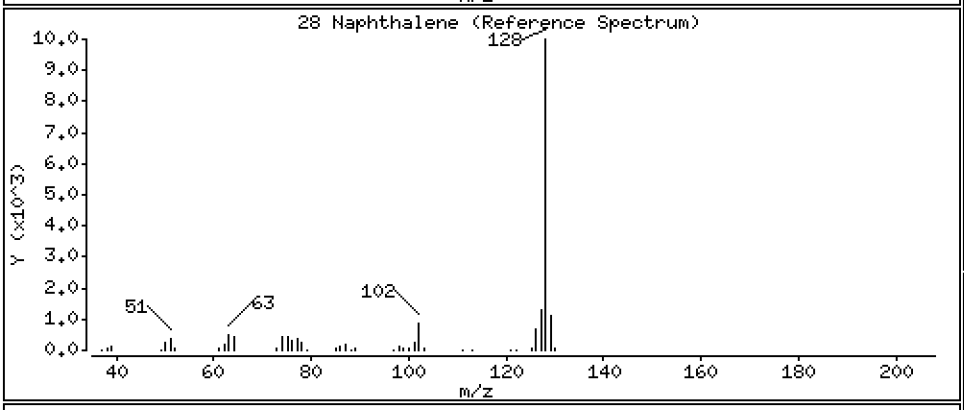
Column diameter: 0.25

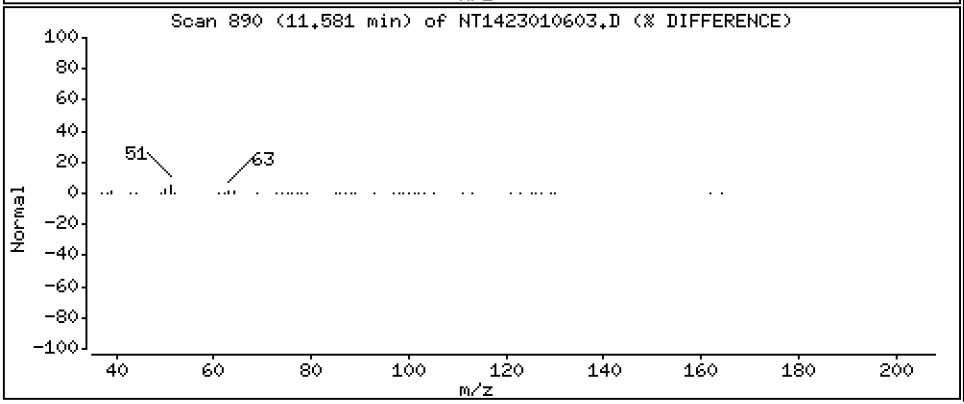
28 Naphthalene

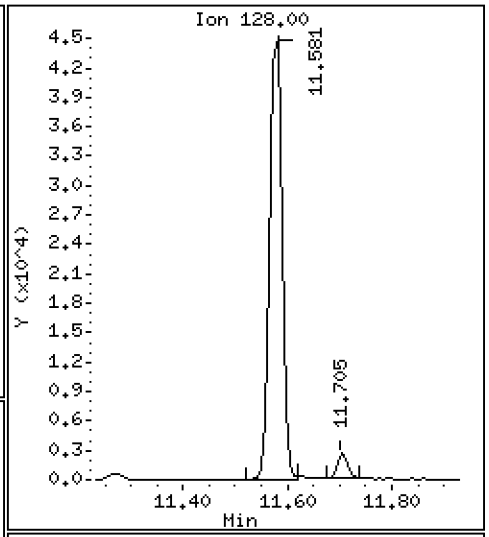
Concentration: 0.4609 ug/mL

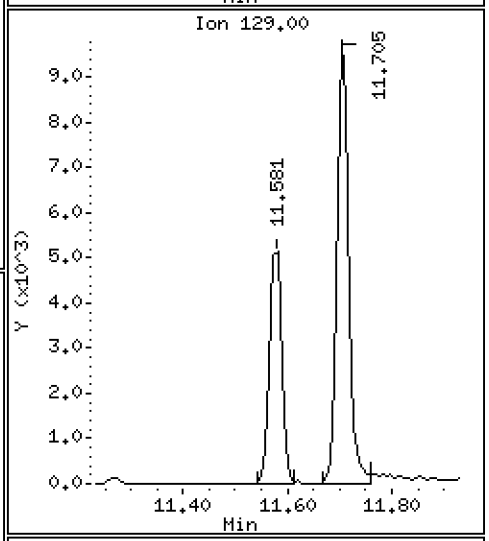


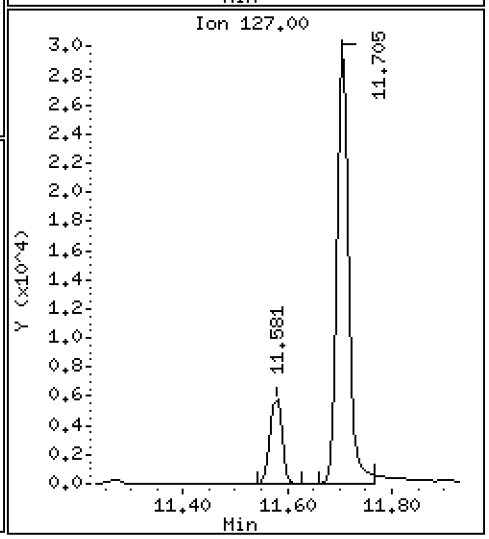












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

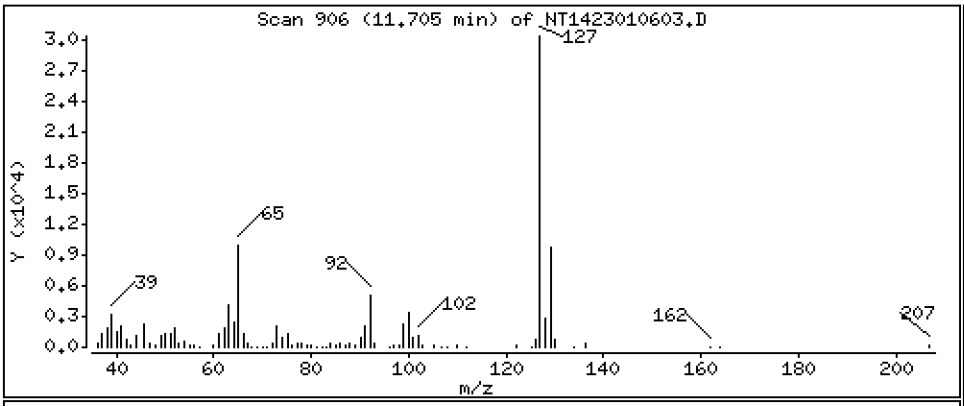
Operator: VTS

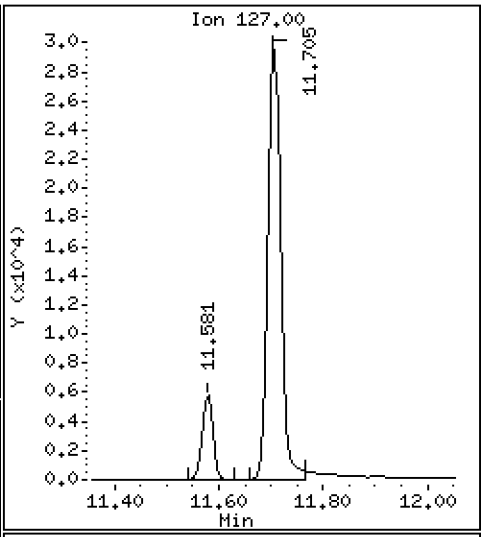
Column phase: ZB-5msi

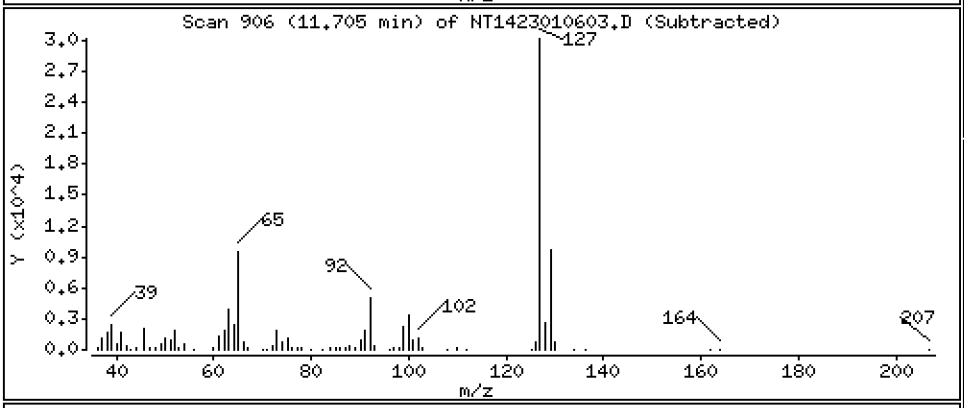
Column diameter: 0.25

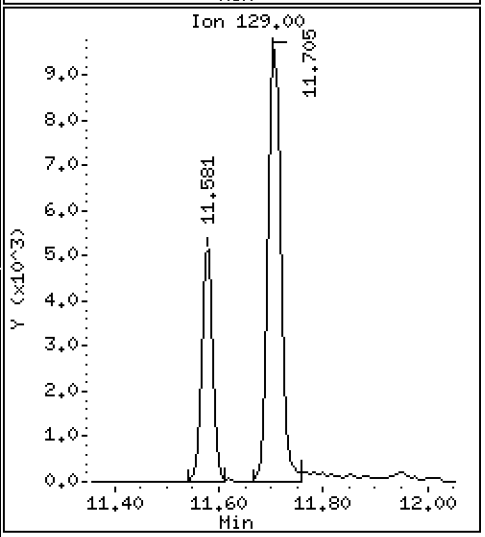
29 4-Chloroaniline

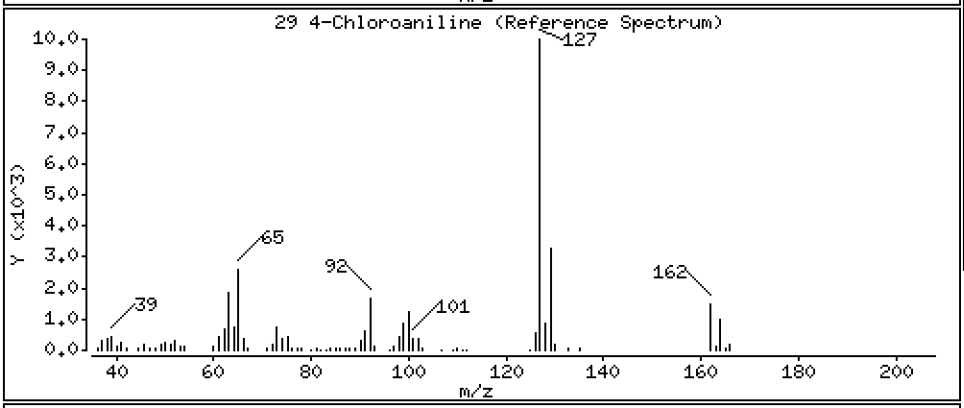
Concentration: 0.7791 ug/mL

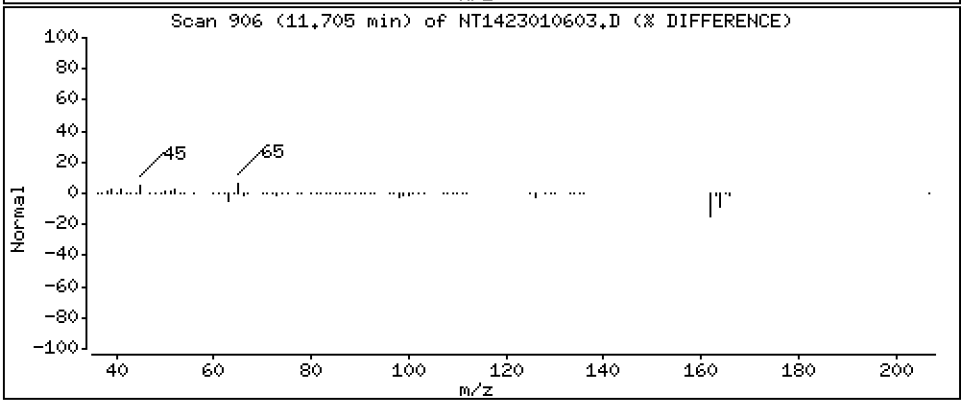












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

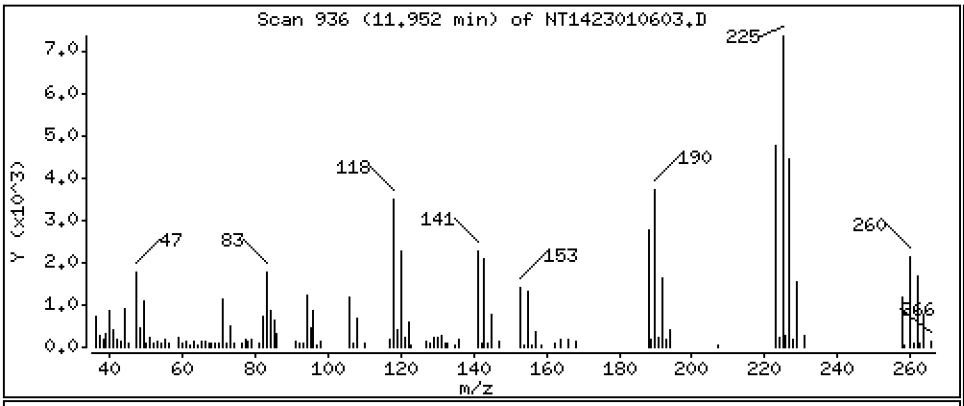
Operator: VTS

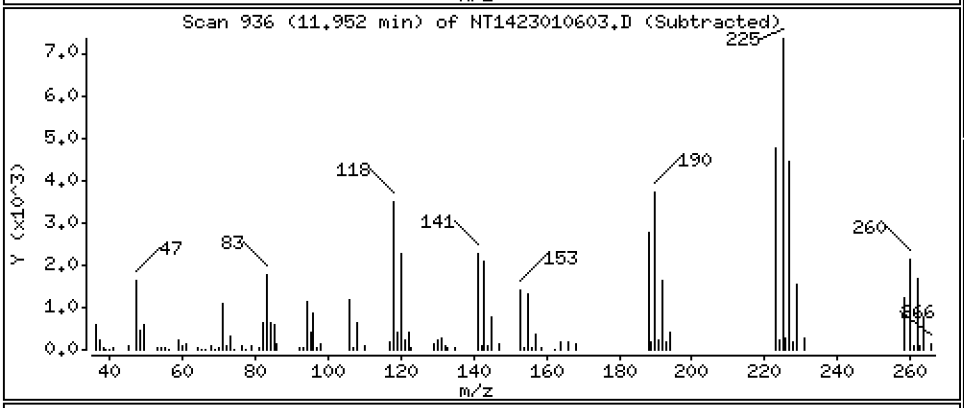
Column phase: ZB-5msi

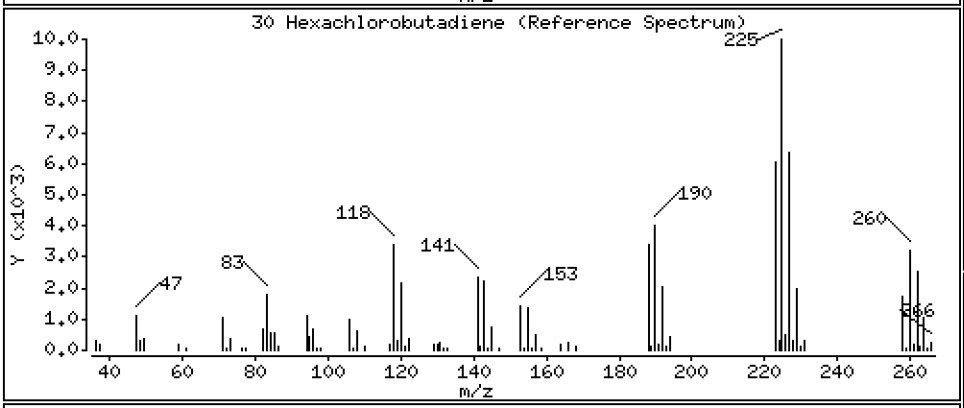
Column diameter: 0.25

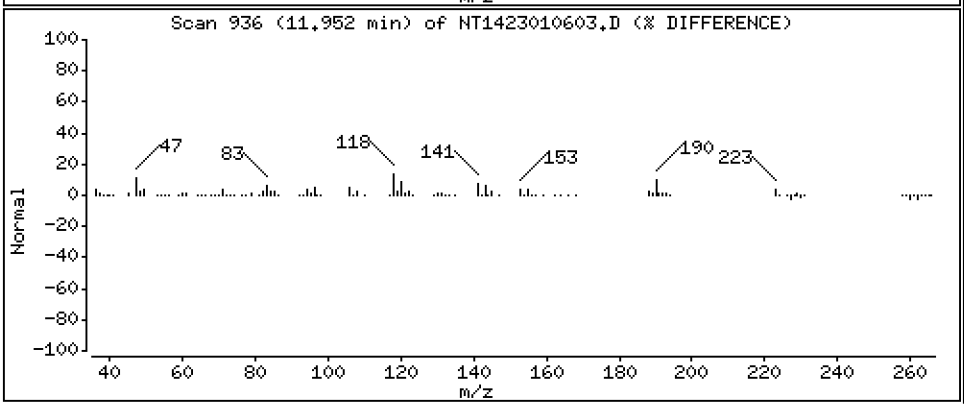
30 Hexachlorobutadiene

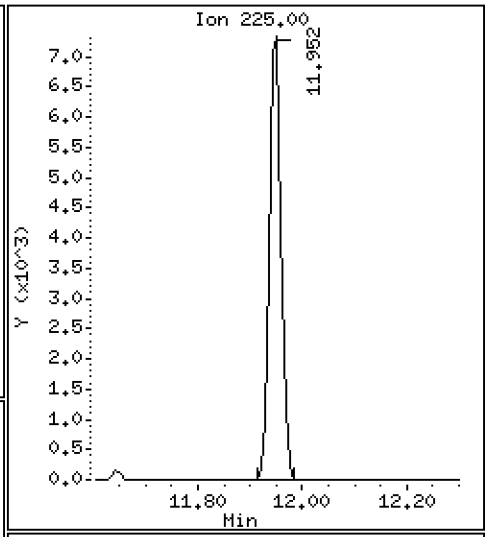
Concentration: 0.4682 ug/mL

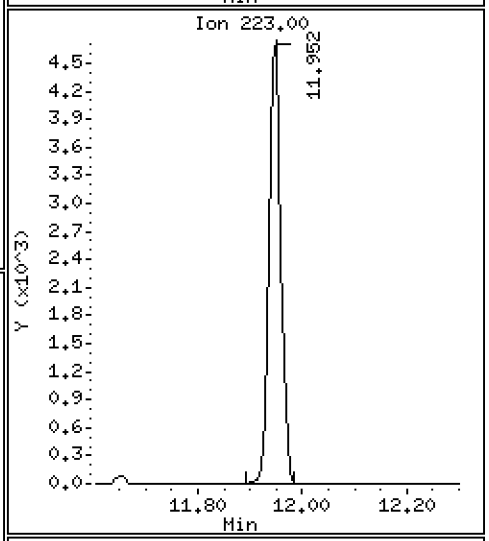


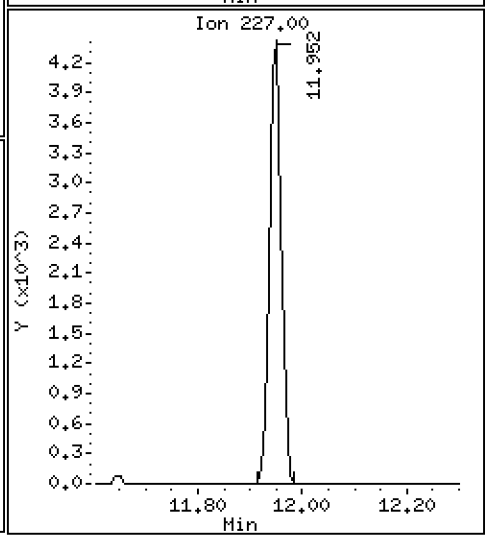












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

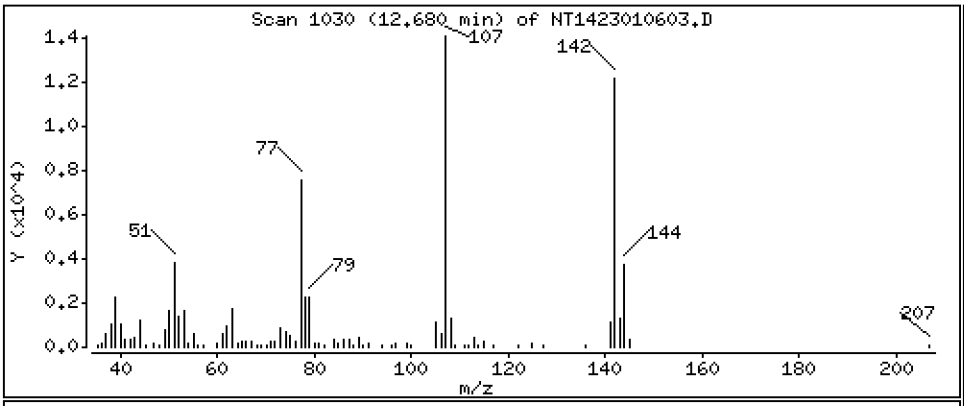
Operator: VTS

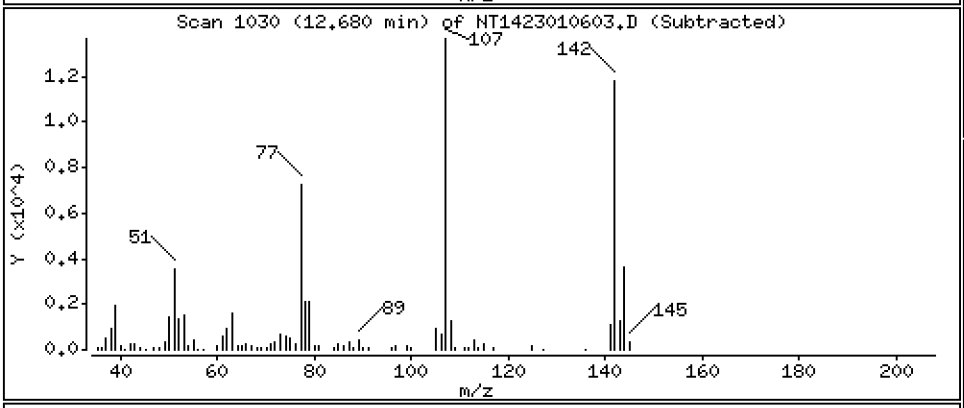
Column phase: ZB-5msi

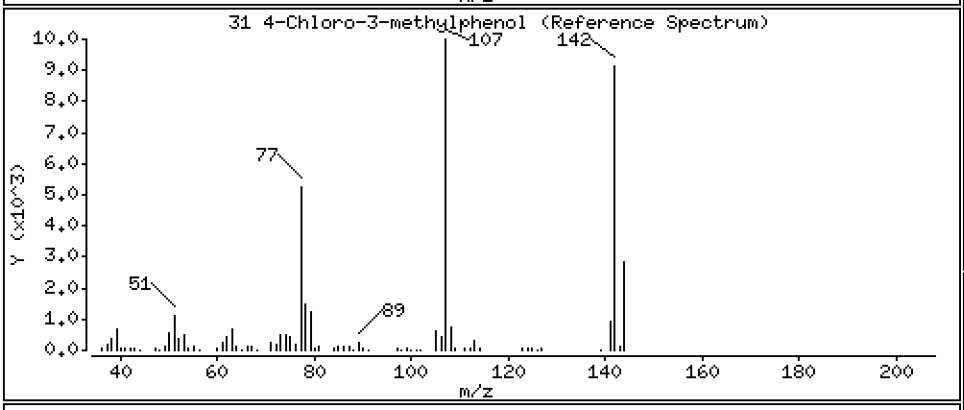
Column diameter: 0.25

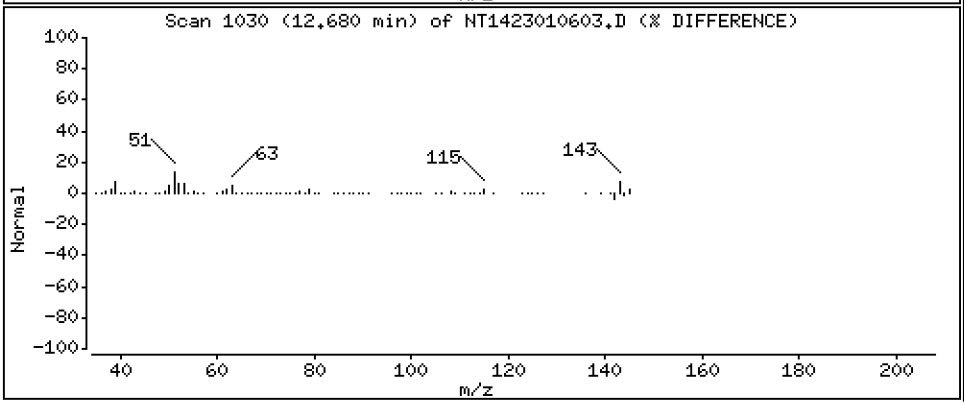
31 4-Chloro-3-methylphenol

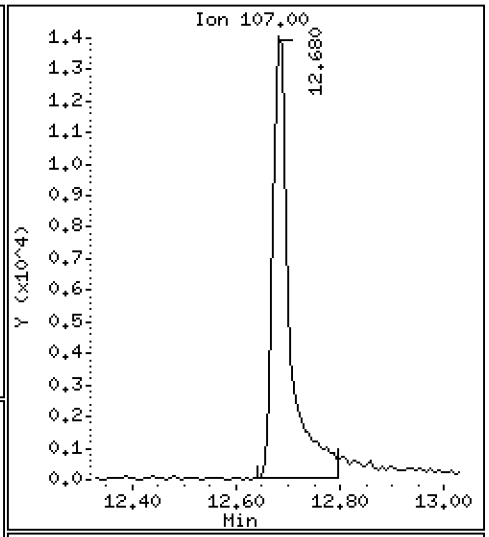
Concentration: 0.7149 ug/mL

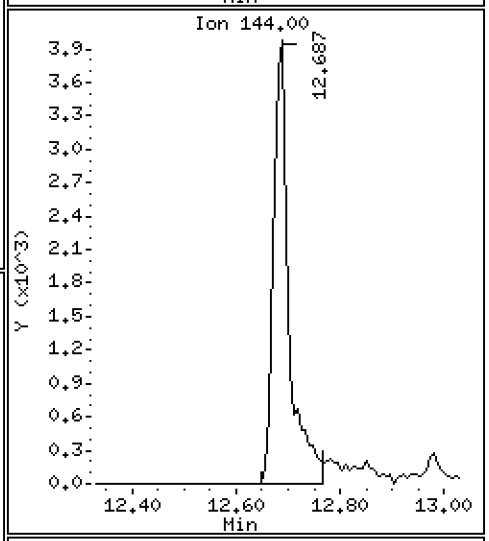


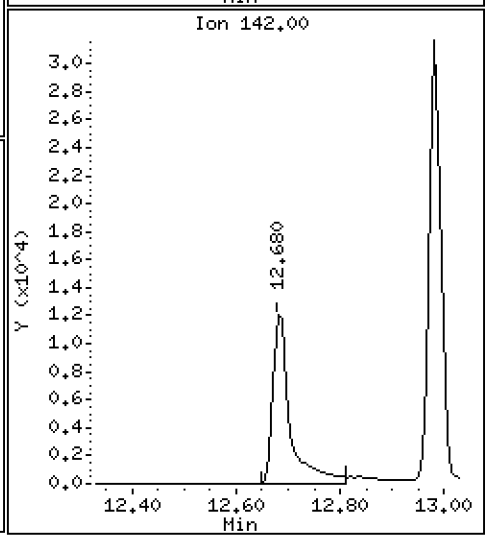












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

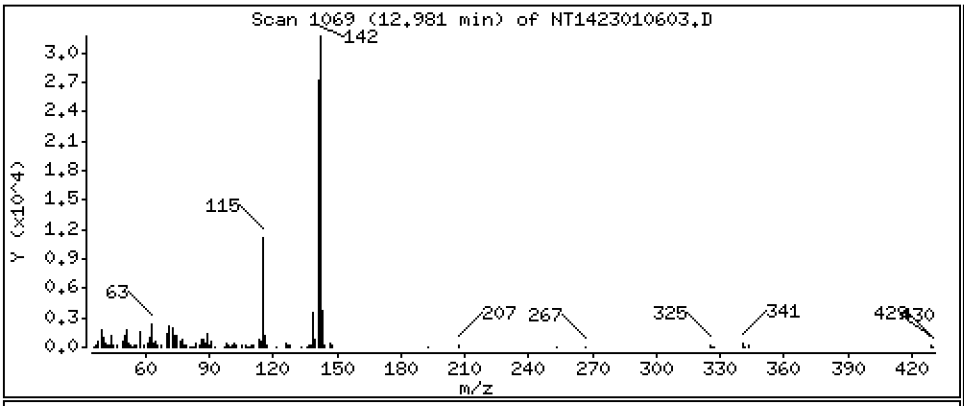
Operator: VTS

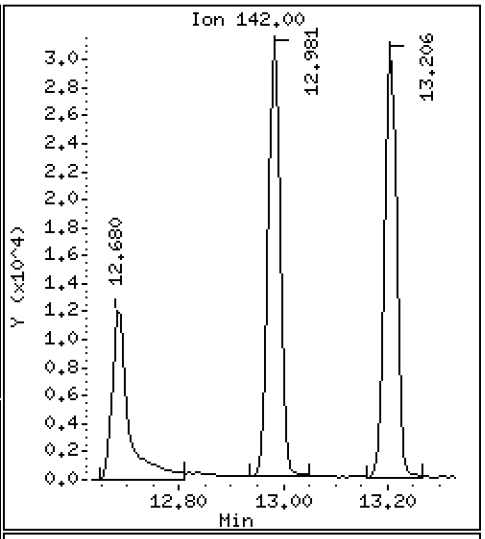
Column phase: ZB-5msi

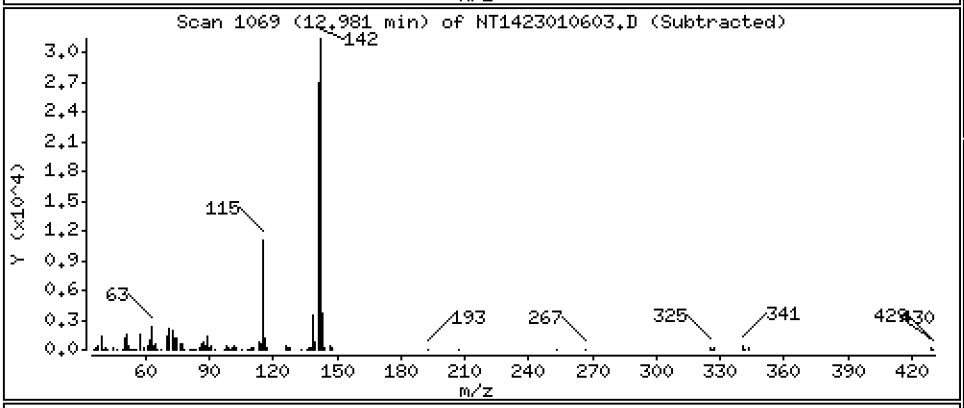
Column diameter: 0.25

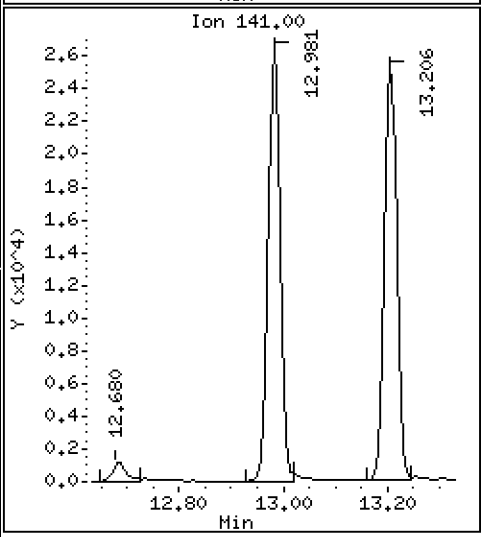
32 2-Methylnaphthalene

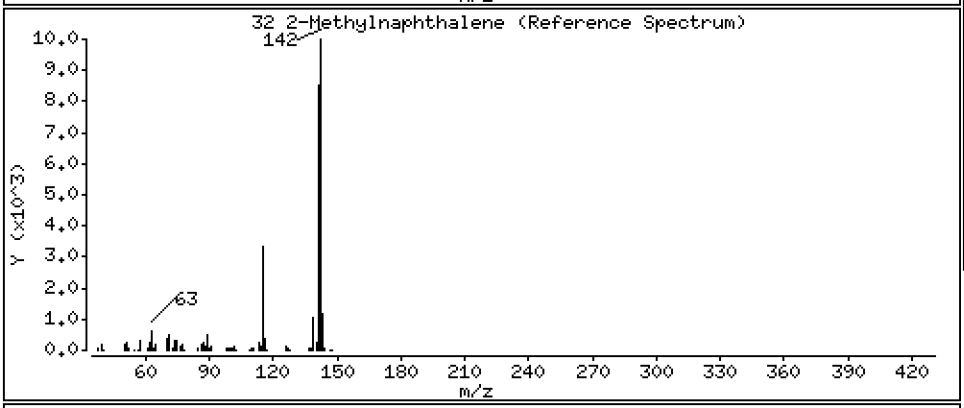
Concentration: 0.4276 ug/mL

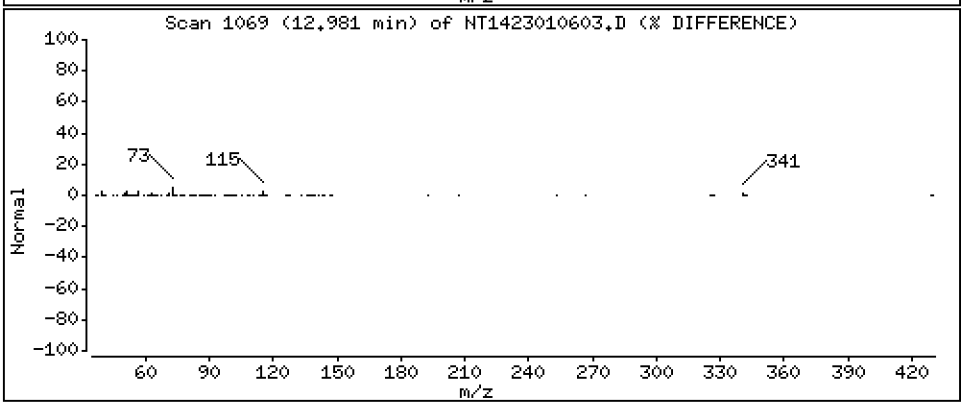












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

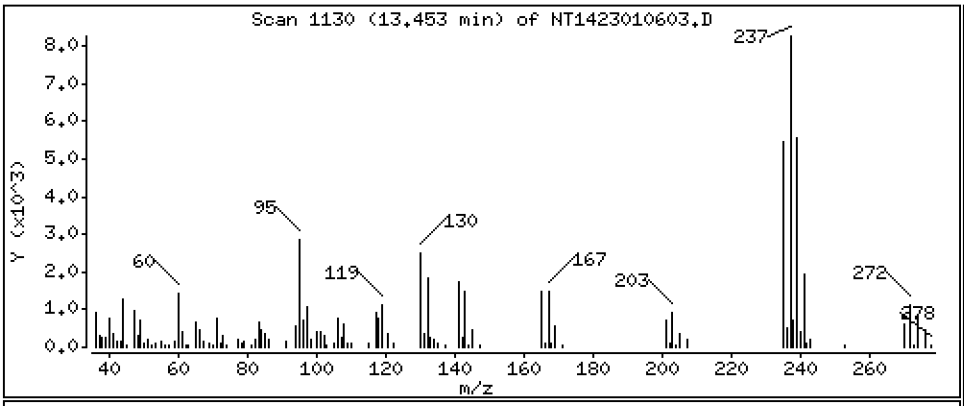
Operator: VTS

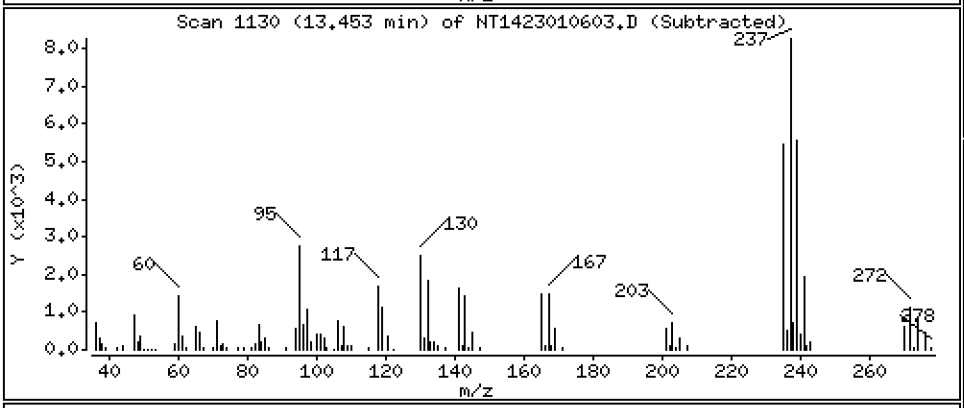
Column phase: ZB-5msi

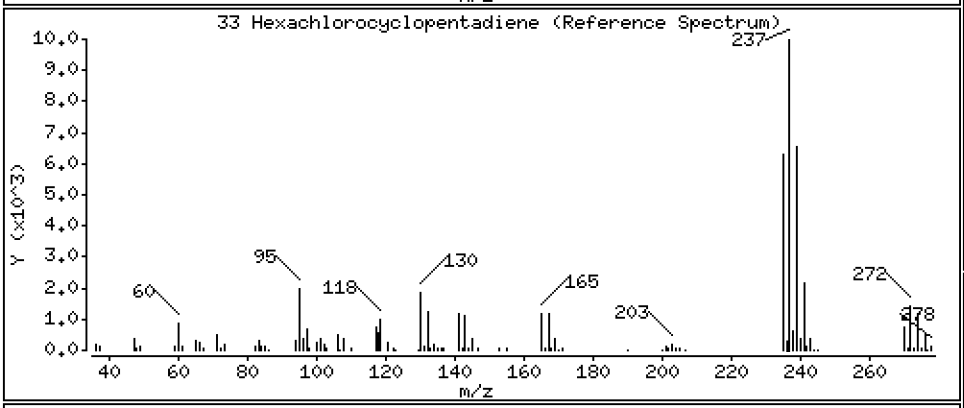
Column diameter: 0.25

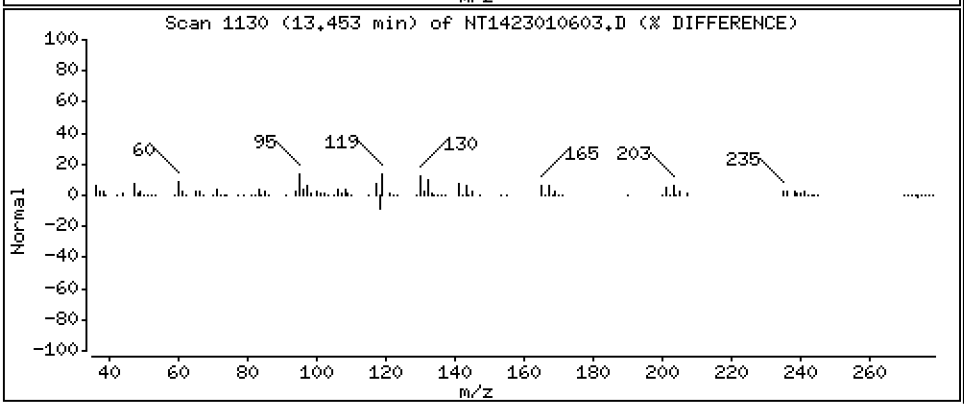
33 Hexachlorocyclopentadiene

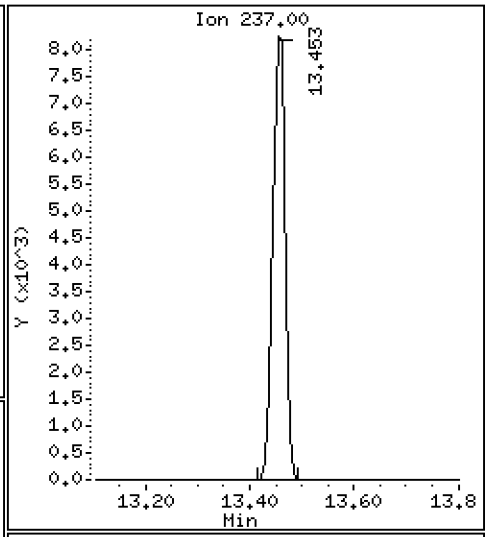
Concentration: 0.5629 ug/mL

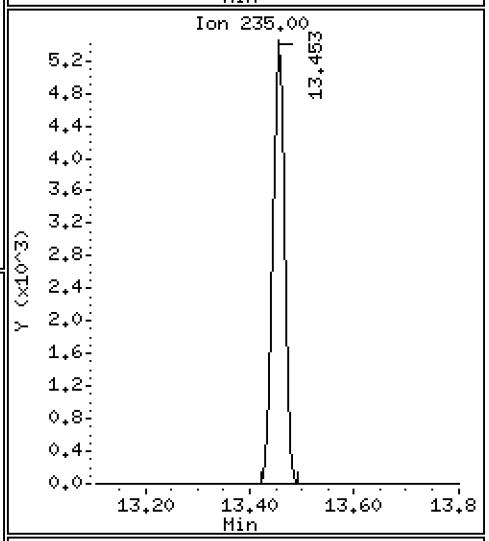


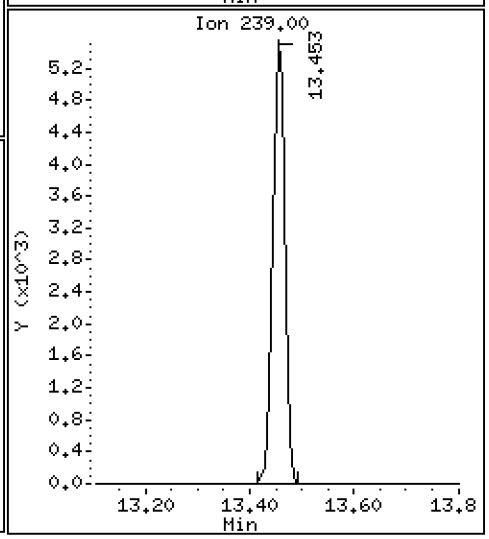












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

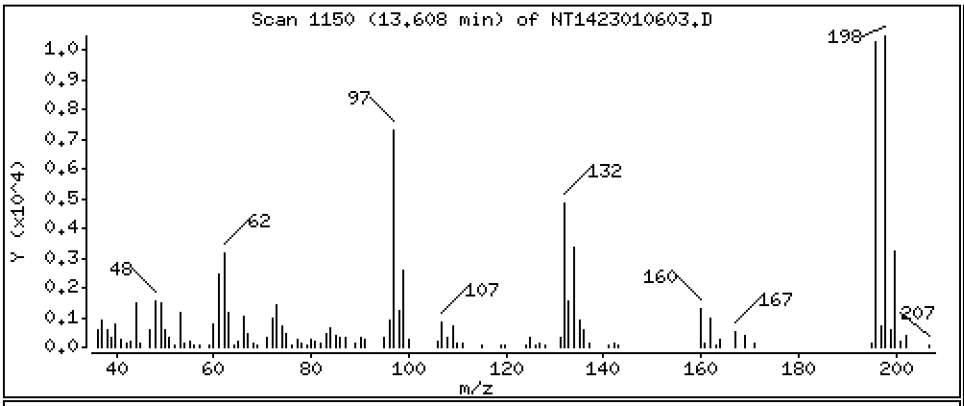
Operator: VTS

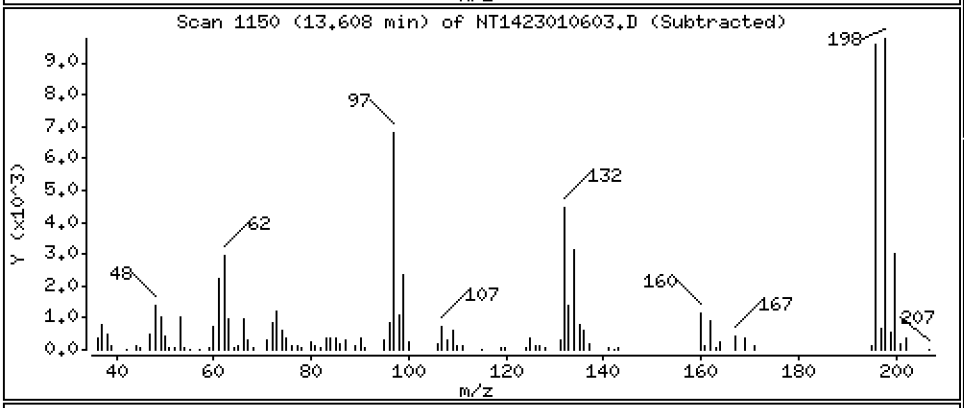
Column phase: ZB-5msi

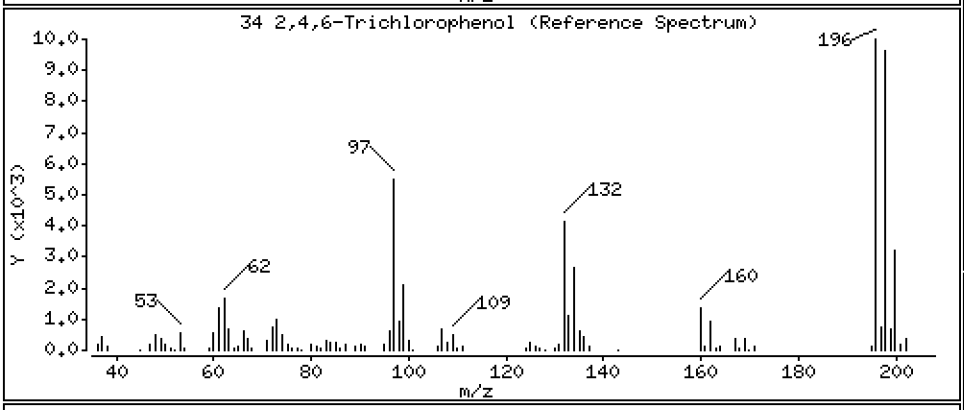
Column diameter: 0.25

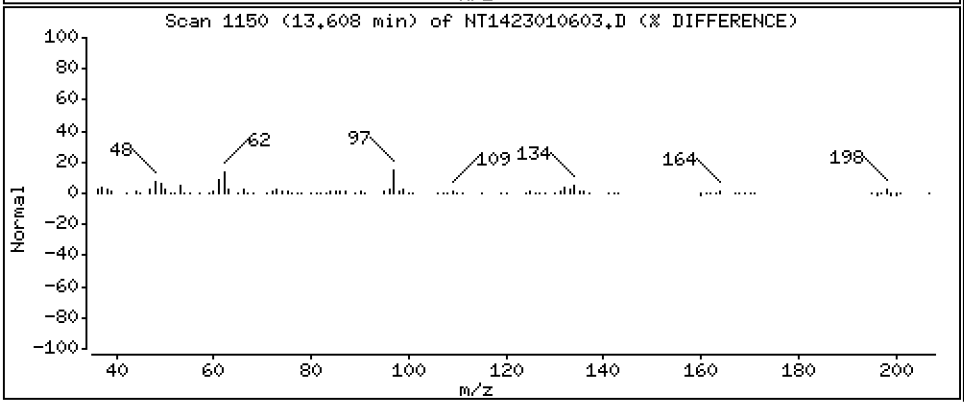
34 2,4,6-Trichlorophenol

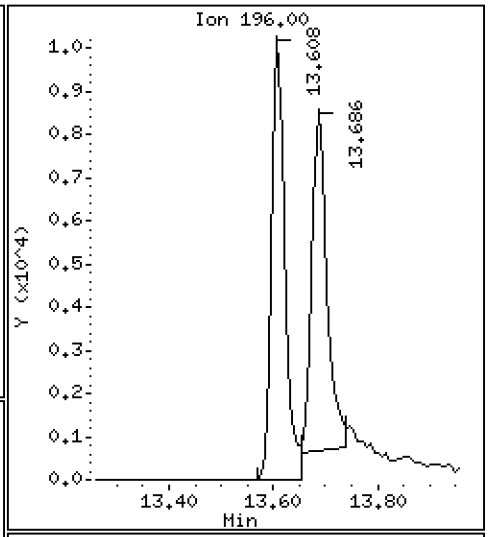
Concentration: 0.6842 ug/mL

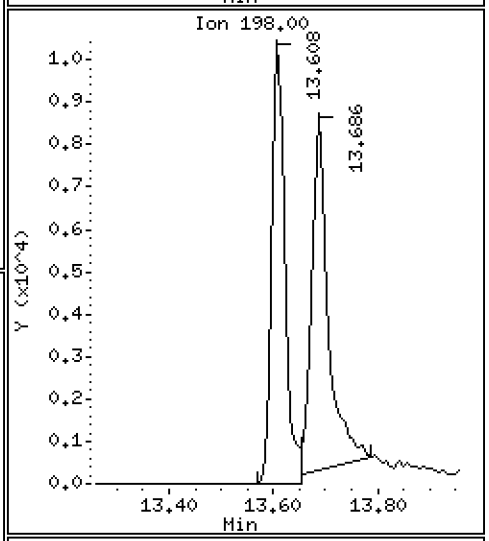


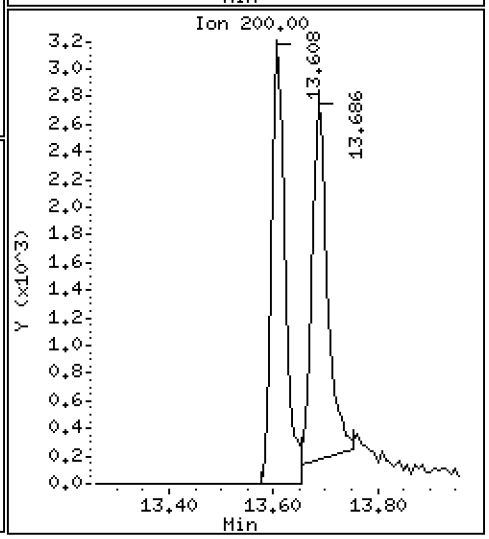












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

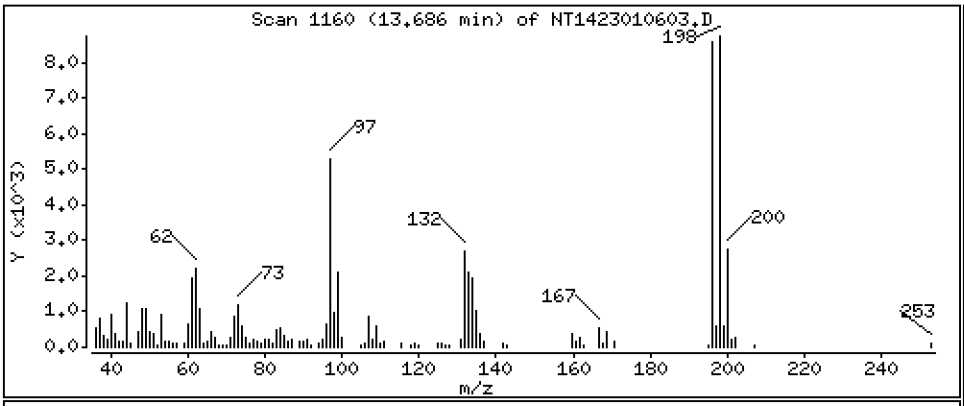
Operator: VTS

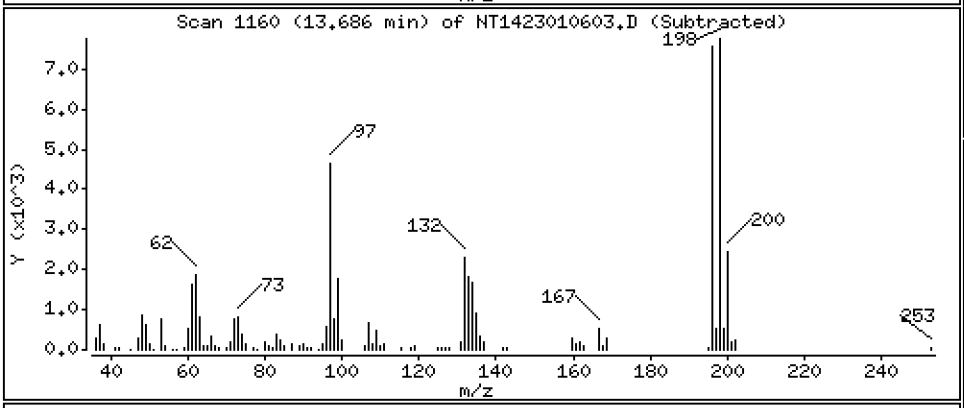
Column phase: ZB-5msi

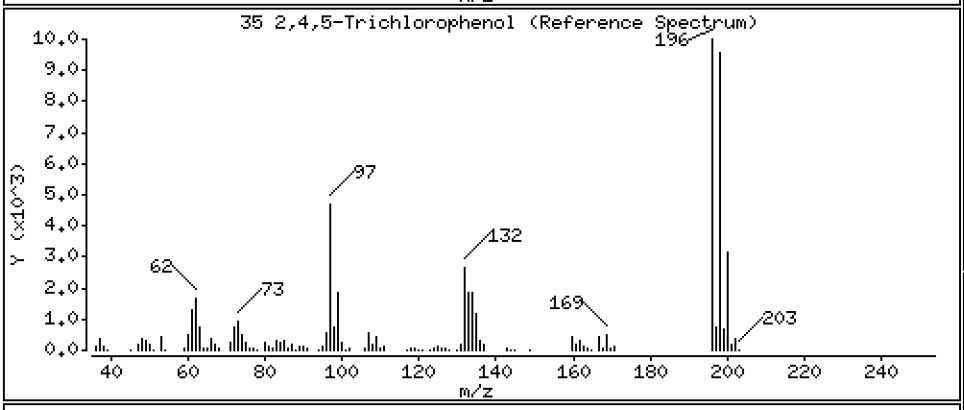
Column diameter: 0.25

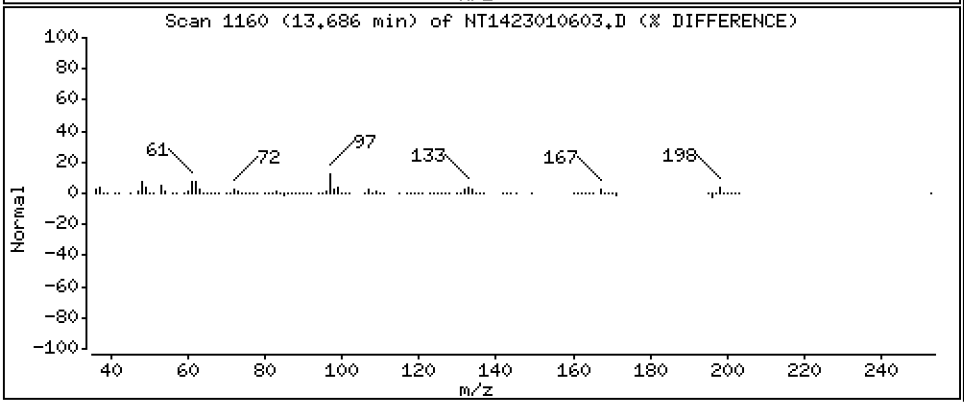
35 2,4,5-Trichlorophenol

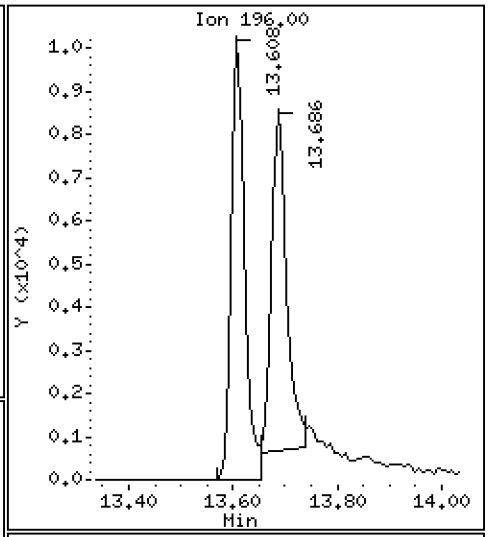
Concentration: 0.5265 ug/mL

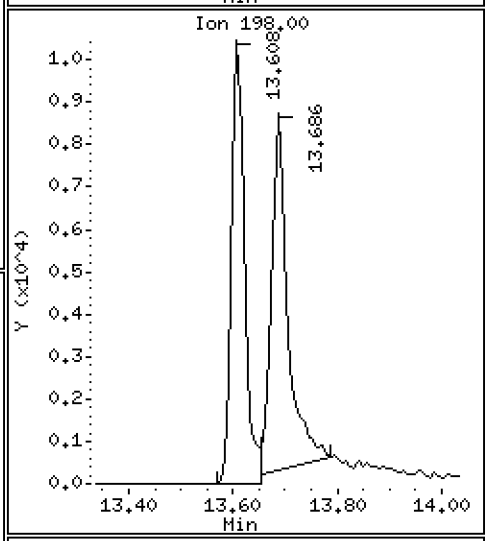


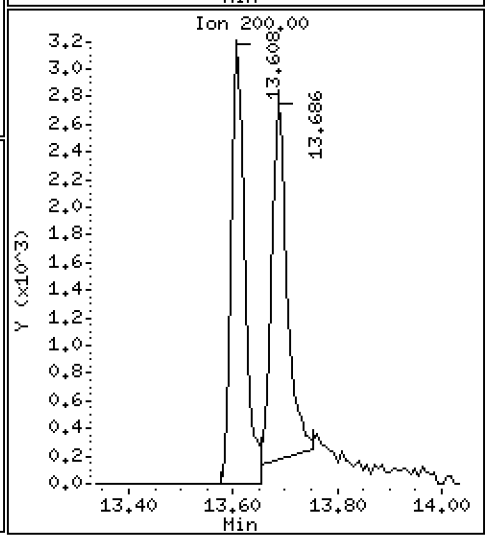












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

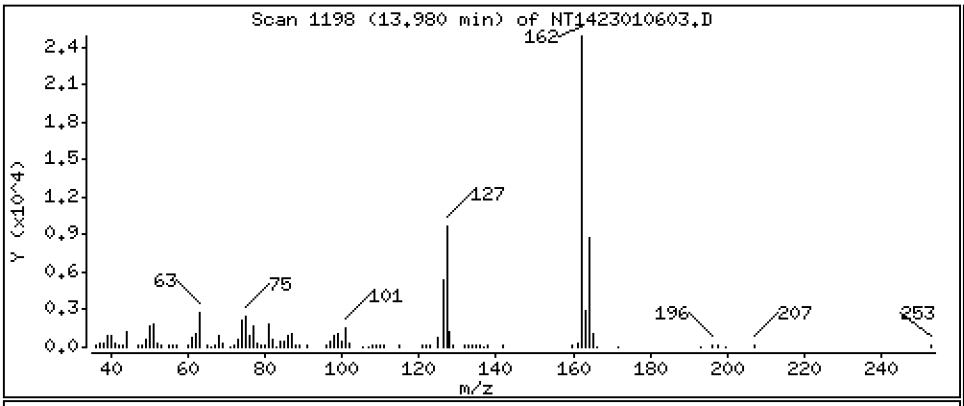
Operator: VTS

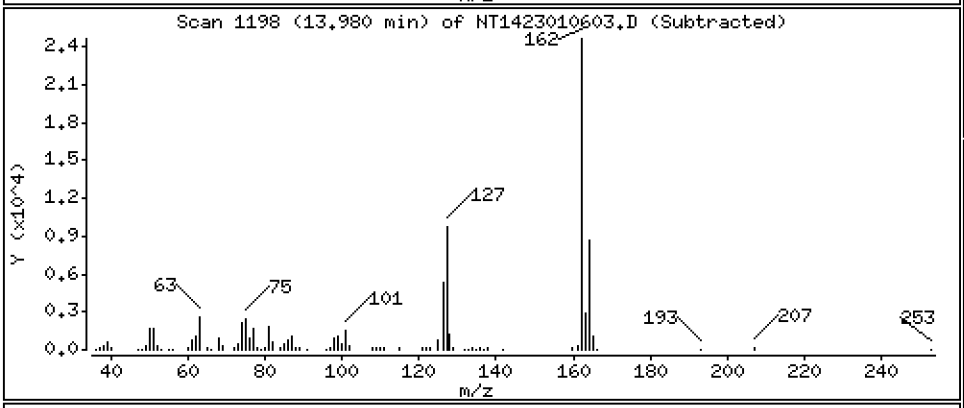
Column phase: ZB-5msi

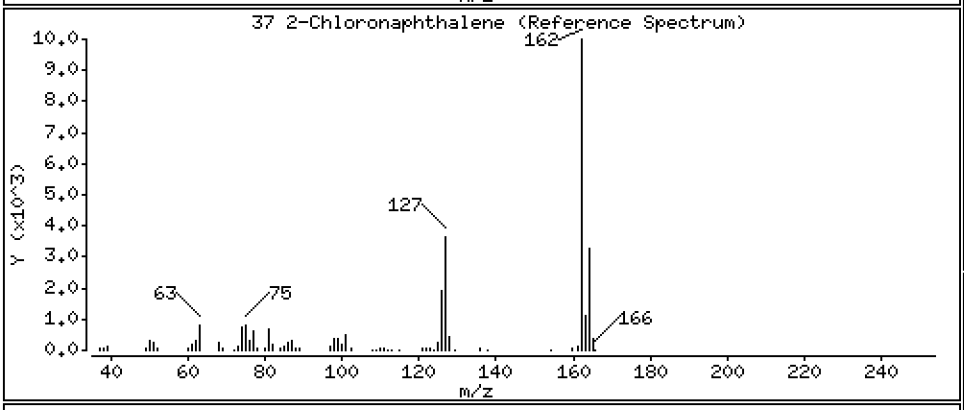
Column diameter: 0.25

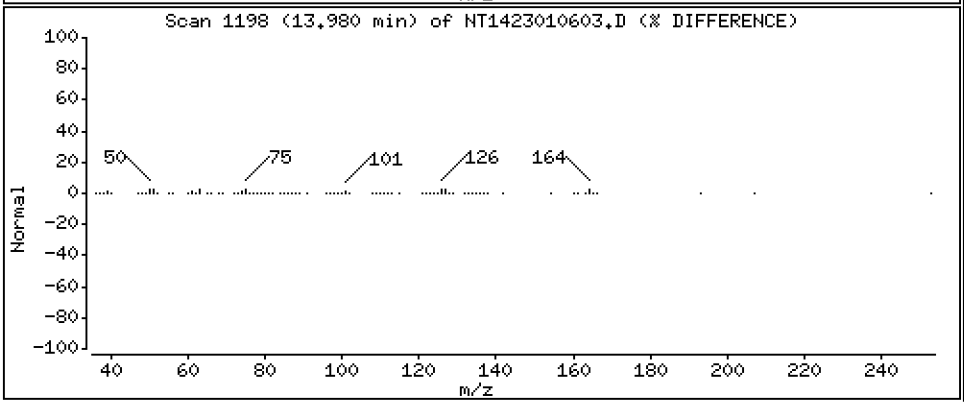
37 2-Chloronaphthalene

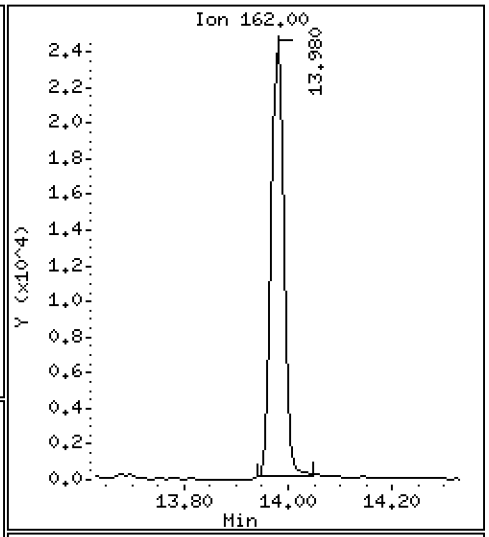
Concentration: 0.4535 ug/mL

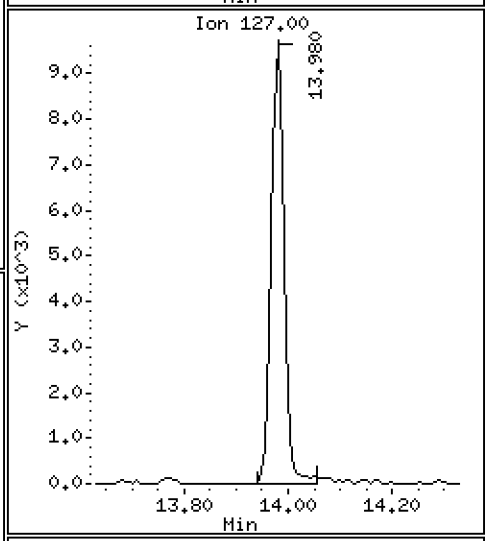


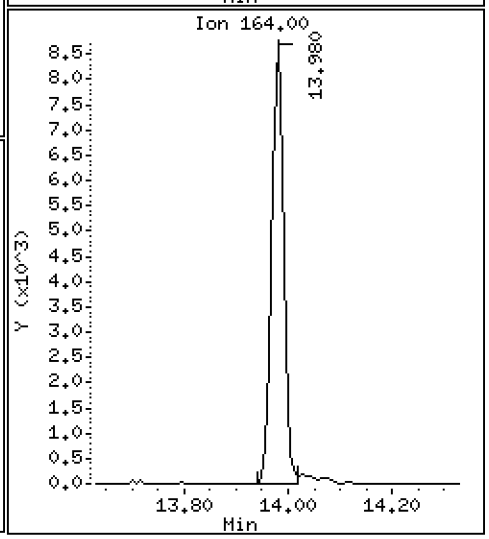












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

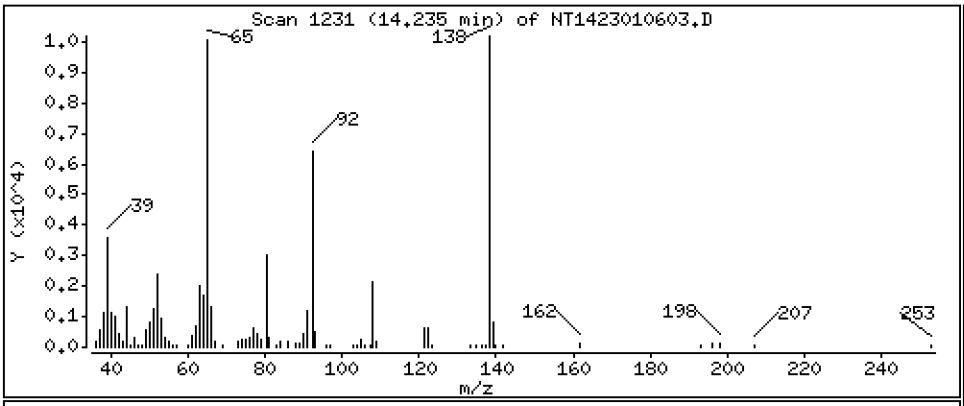
Operator: VTS

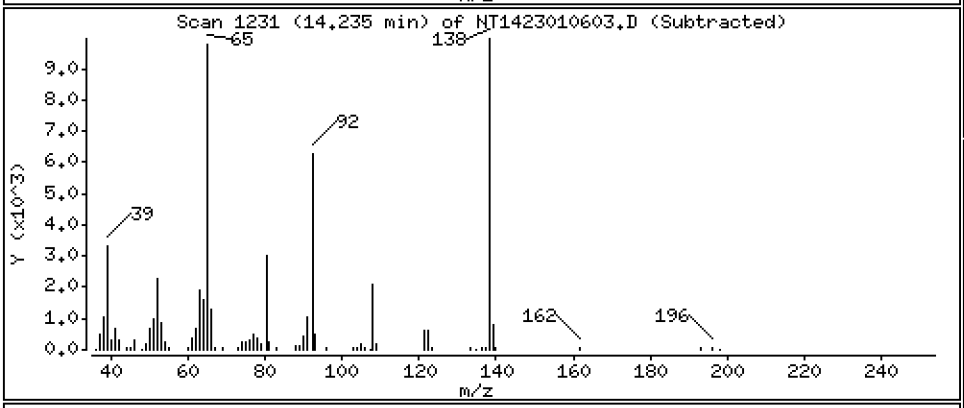
Column phase: ZB-5msi

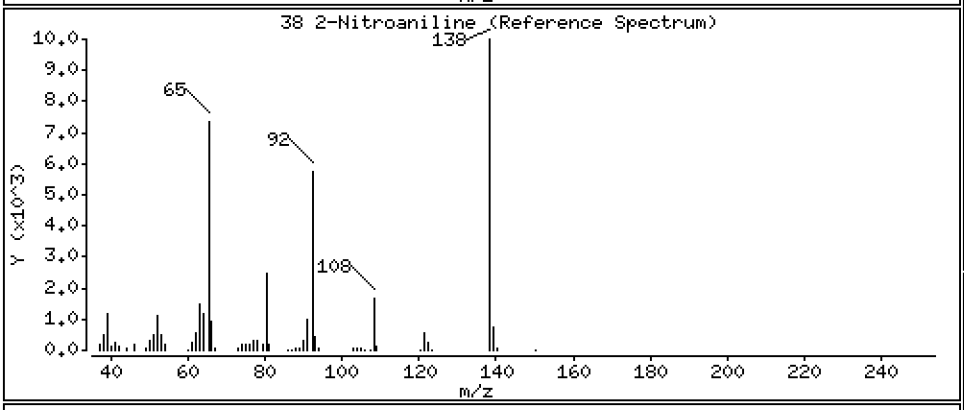
Column diameter: 0.25

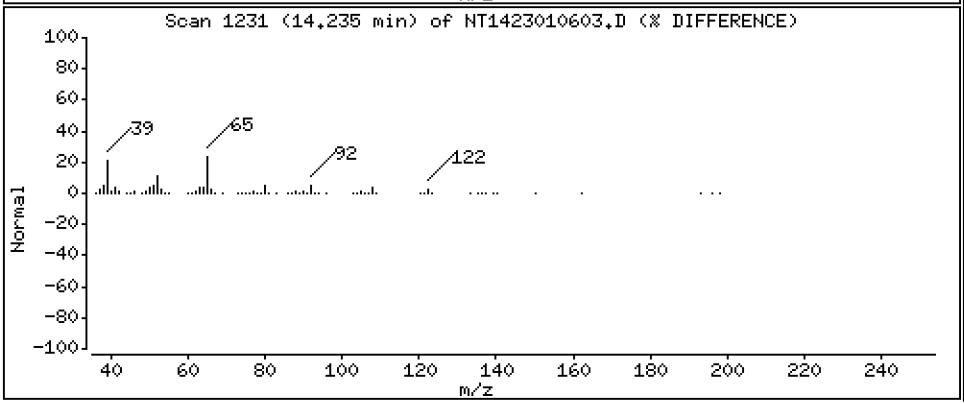
38 2-Nitroaniline

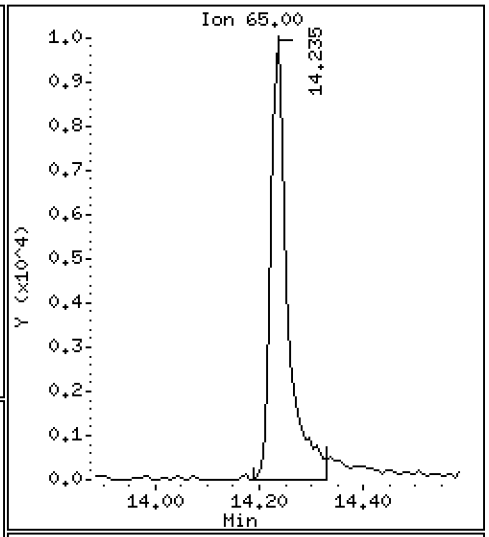
Concentration: 0.9526 ug/mL

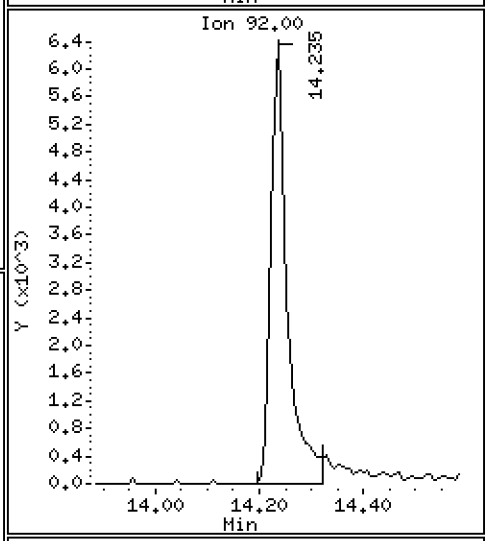


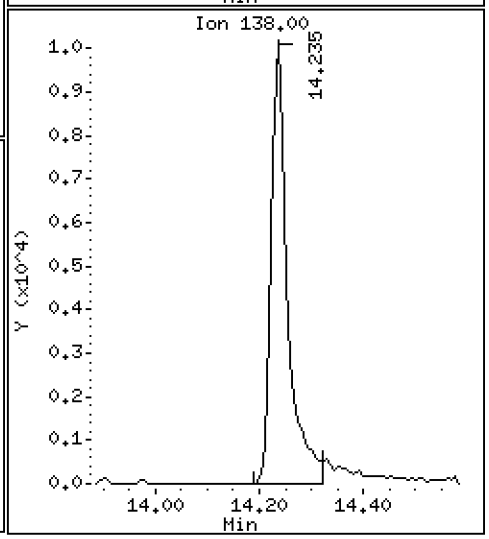












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

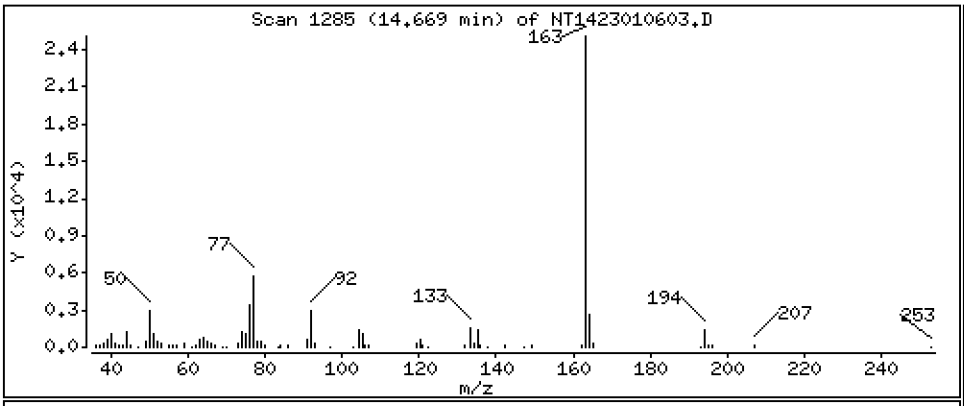
Operator: VTS

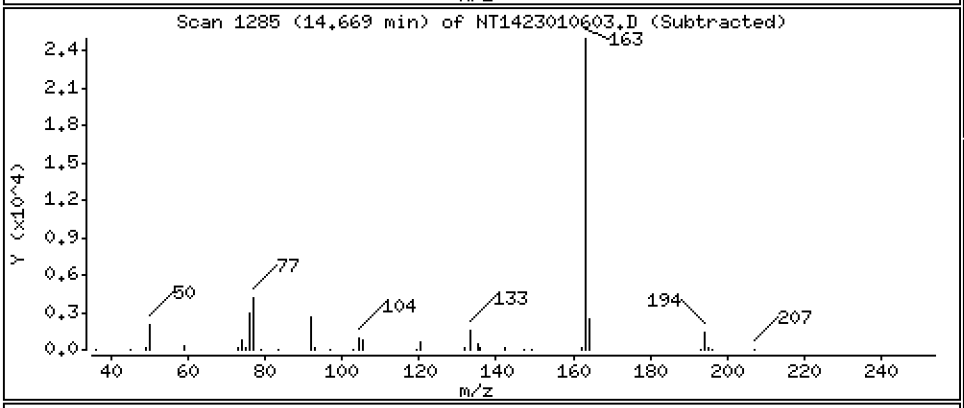
Column phase: ZB-5msi

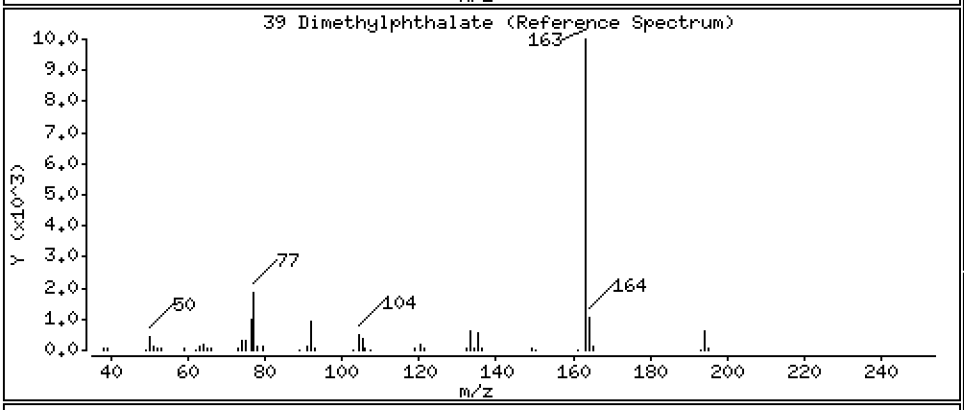
Column diameter: 0.25

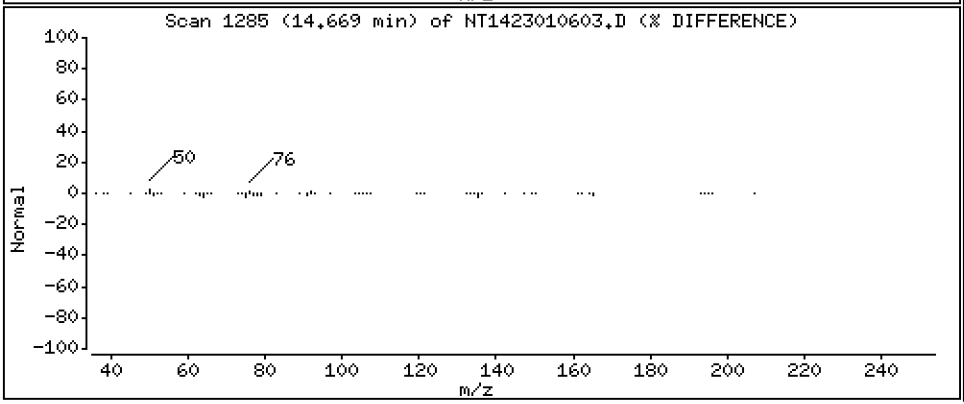
39 Dimethylphthalate

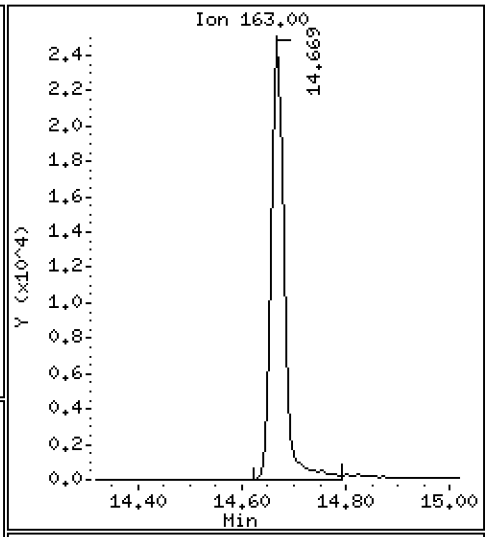
Concentration: 0.4836 ug/mL

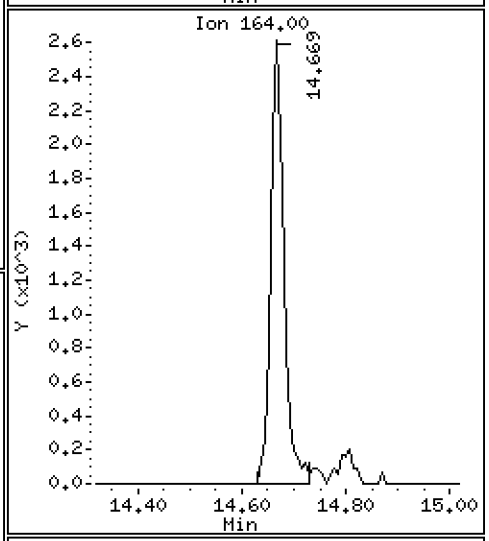


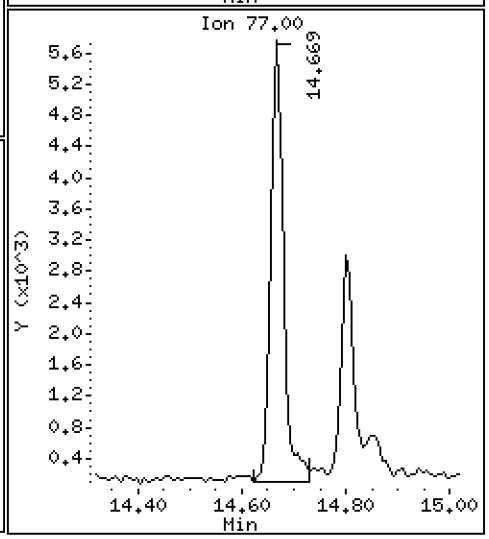












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

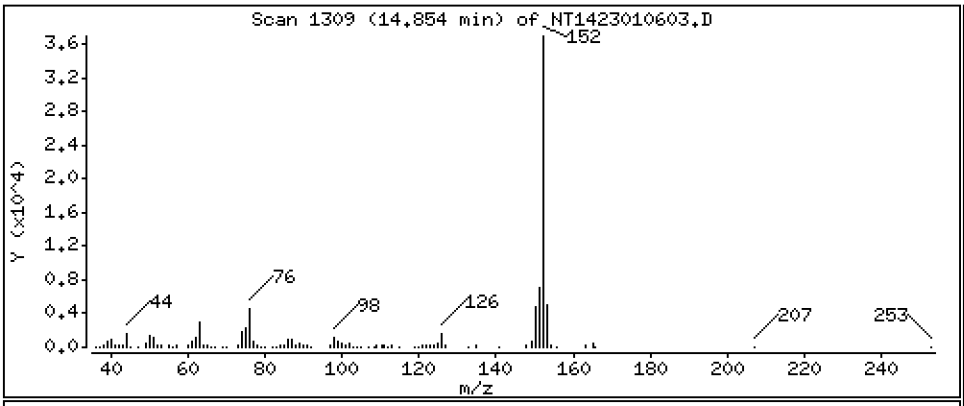
Operator: VTS

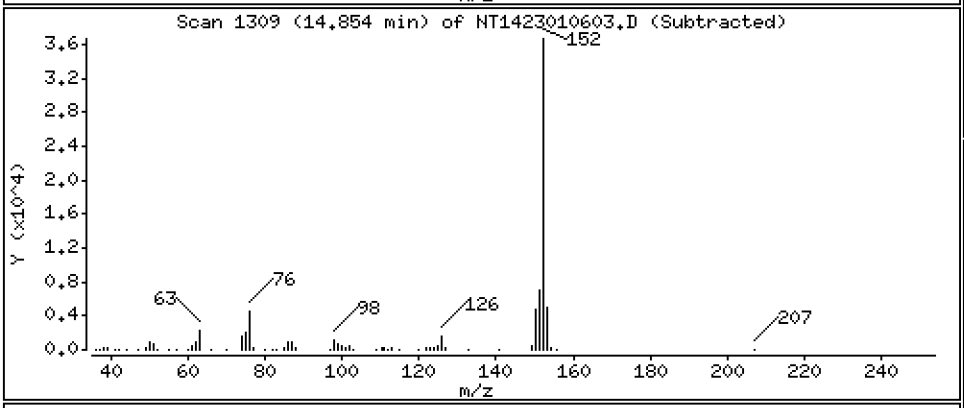
Column phase: ZB-5msi

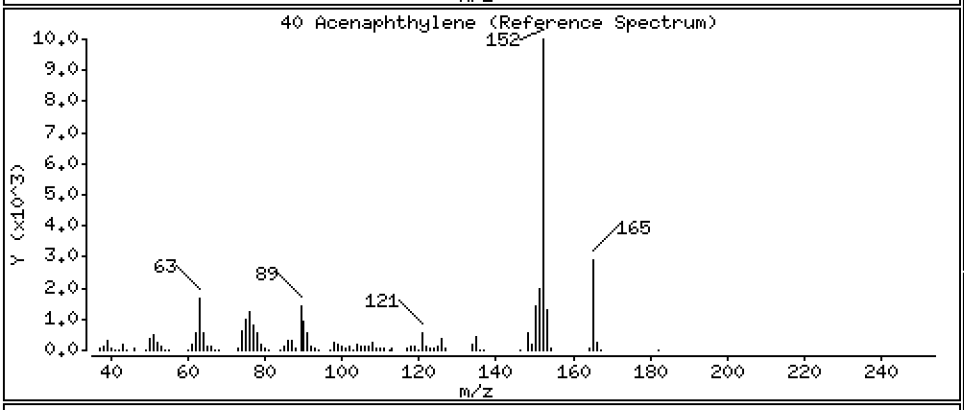
Column diameter: 0.25

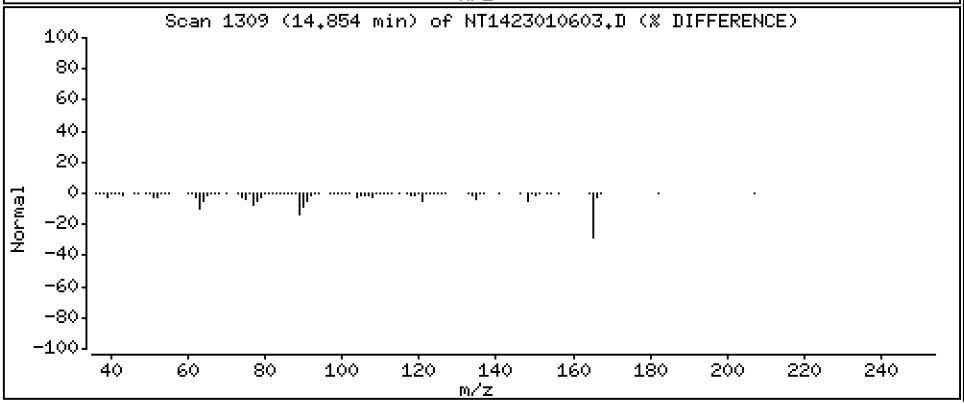
40 Acenaphthylene

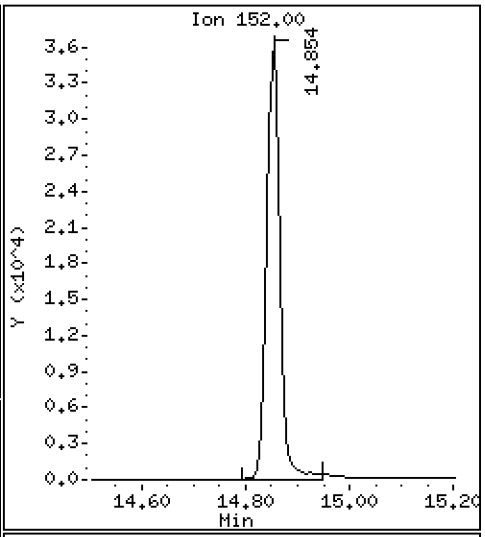
Concentration: 0.4635 ug/mL

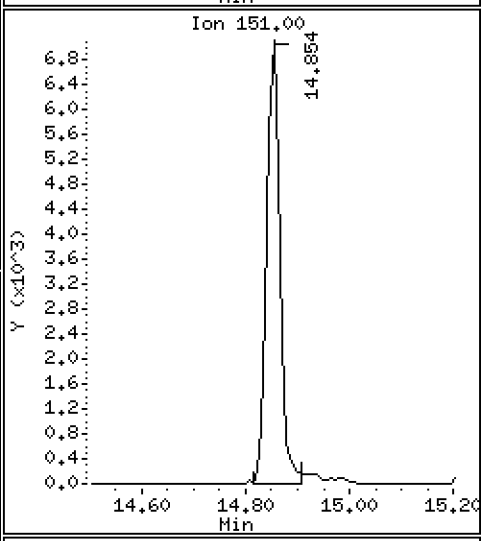


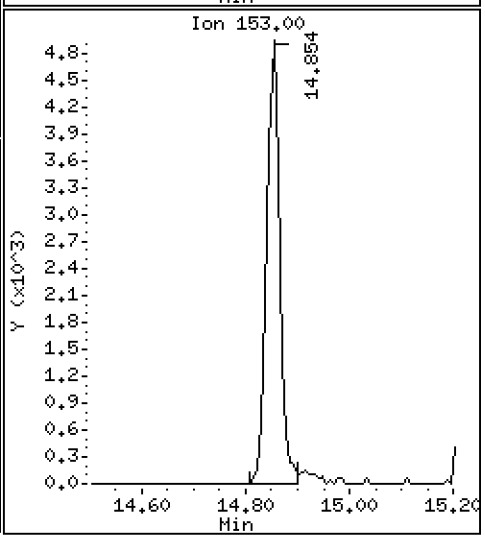












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

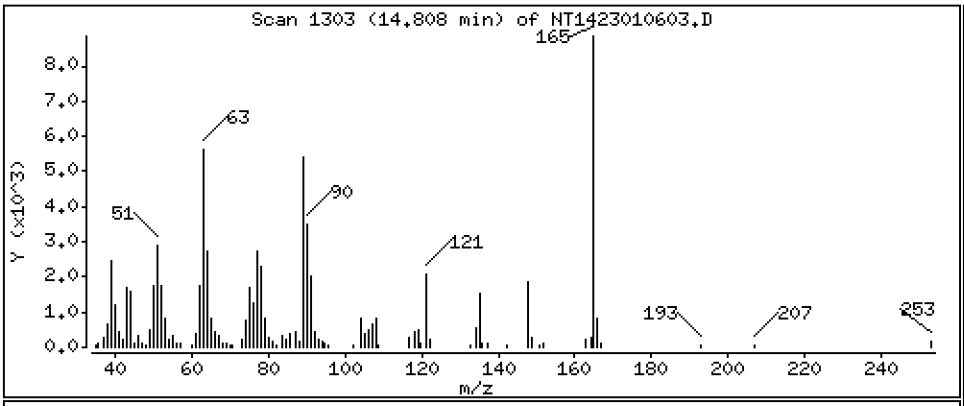
Operator: VTS

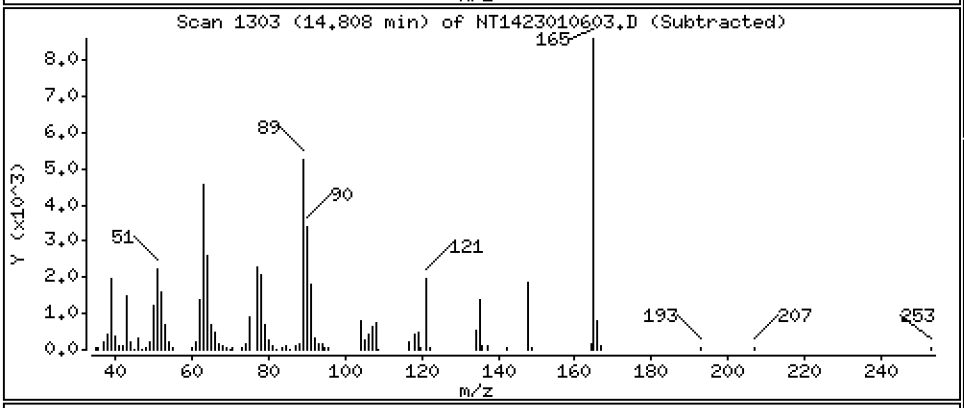
Column phase: ZB-5msi

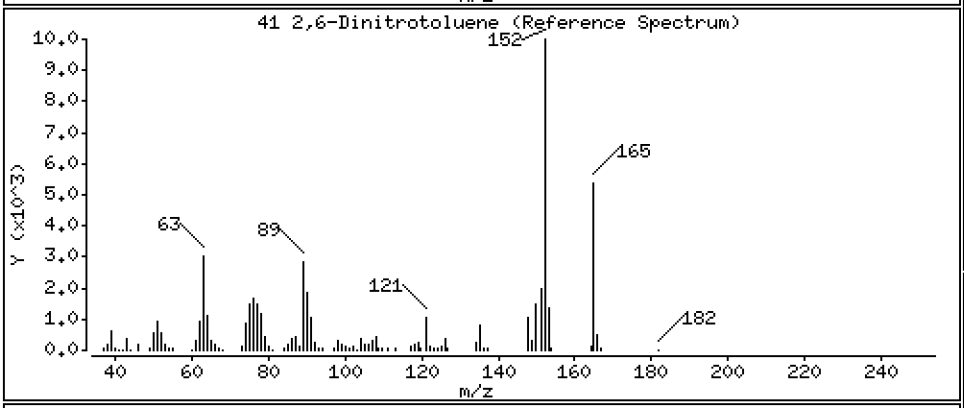
Column diameter: 0.25

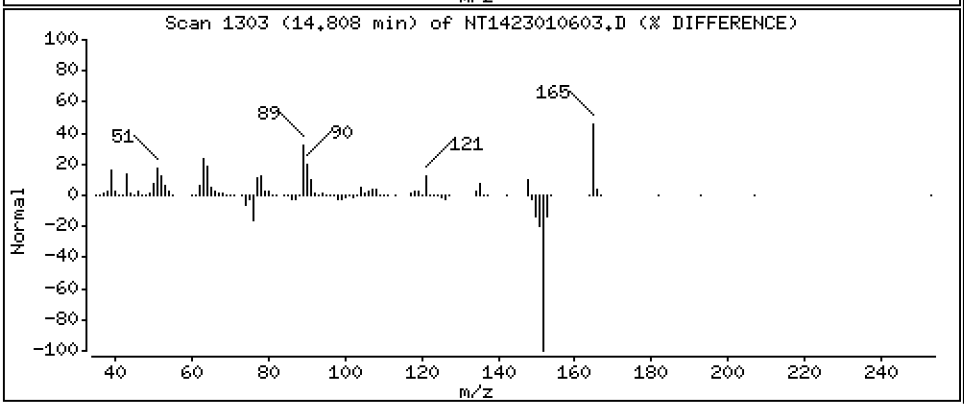
41 2,6-Dinitrotoluene

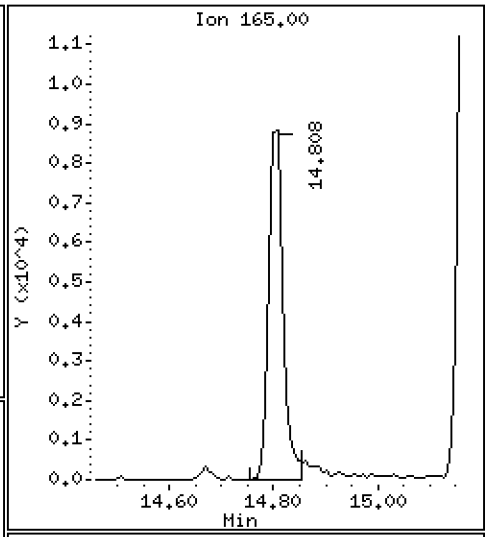
Concentration: 0.8467 ug/mL

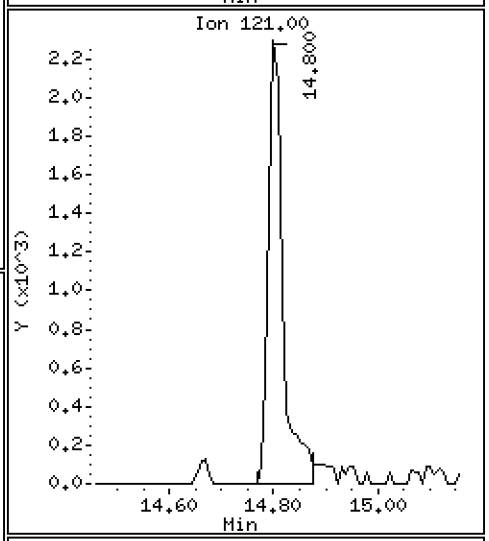


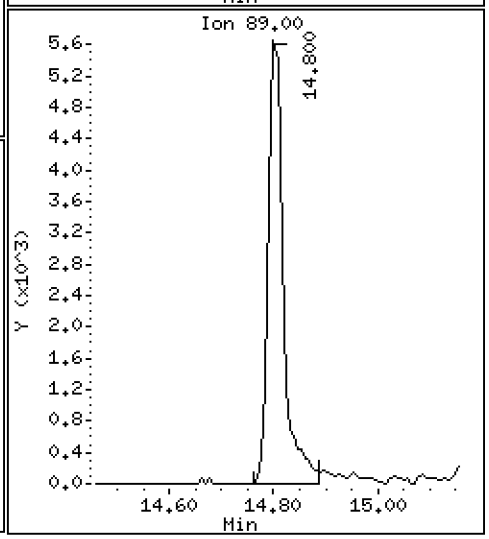












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

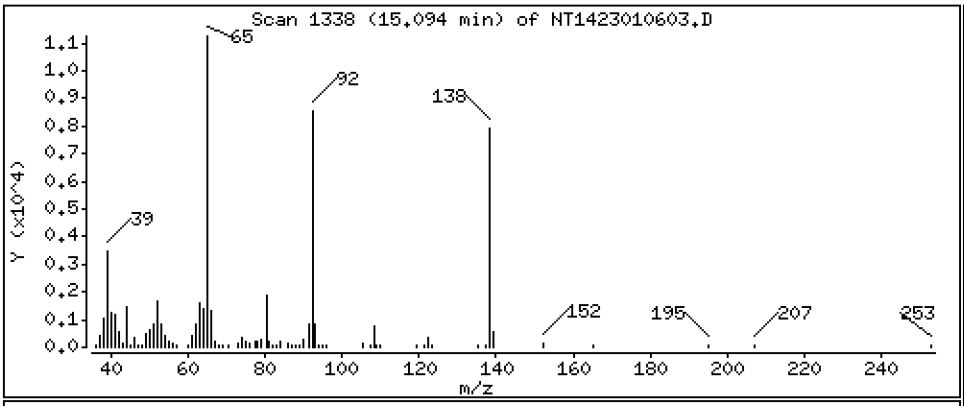
Operator: VTS

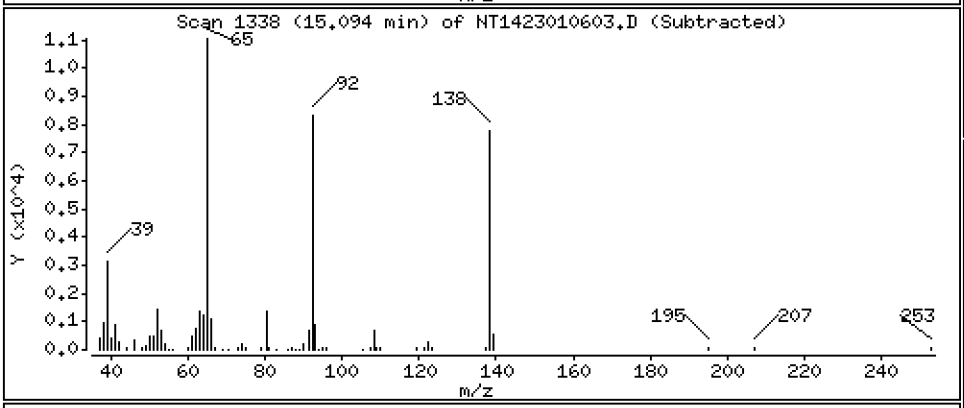
Column phase: ZB-5msi

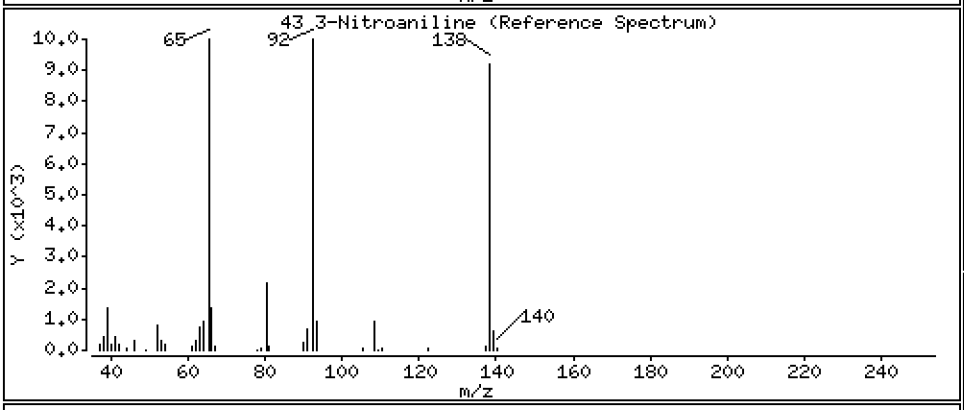
Column diameter: 0.25

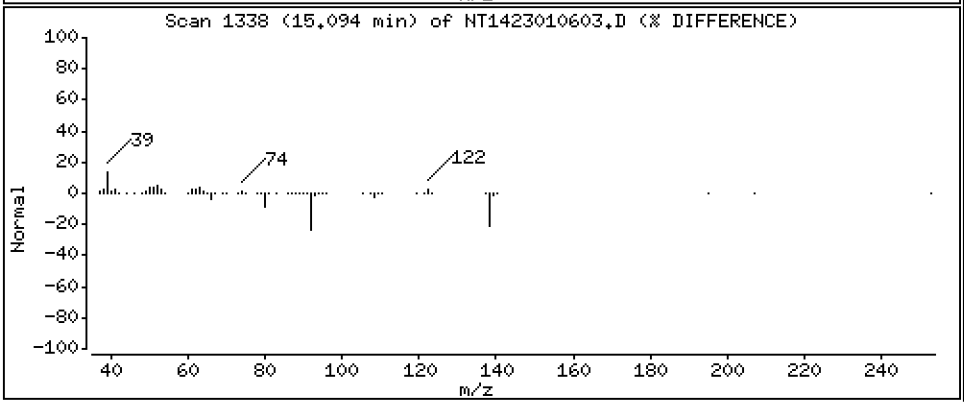
43 3-Nitroaniline

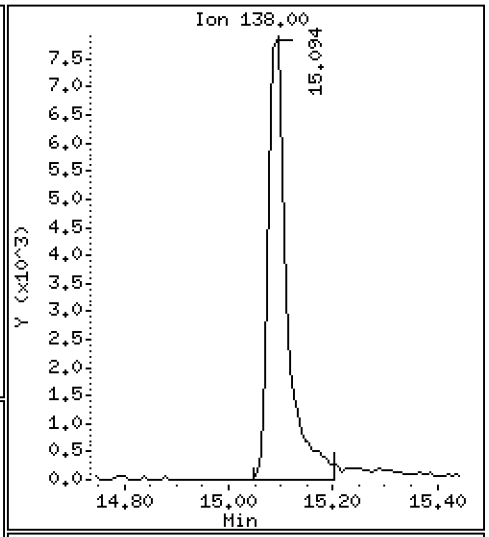
Concentration: 0.8220 ug/mL

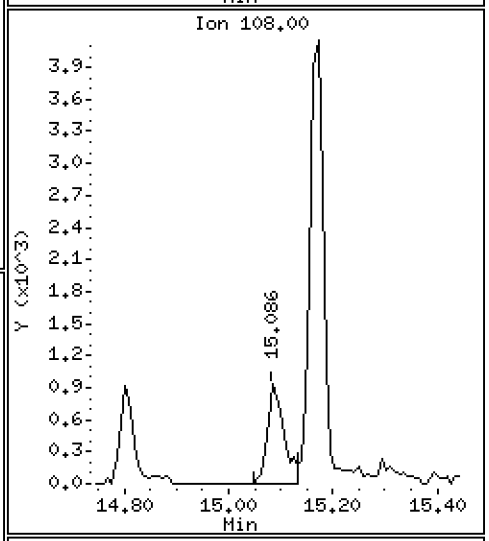


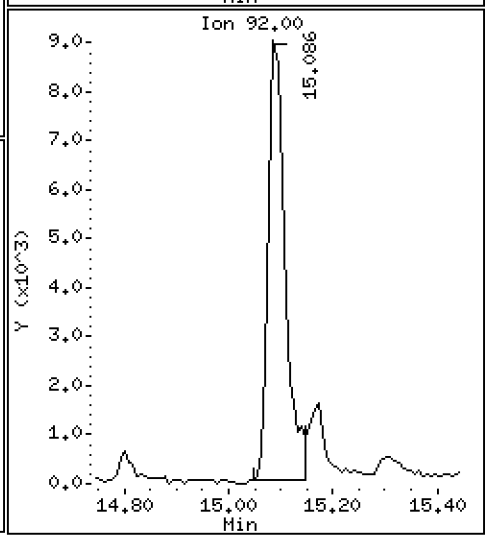












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

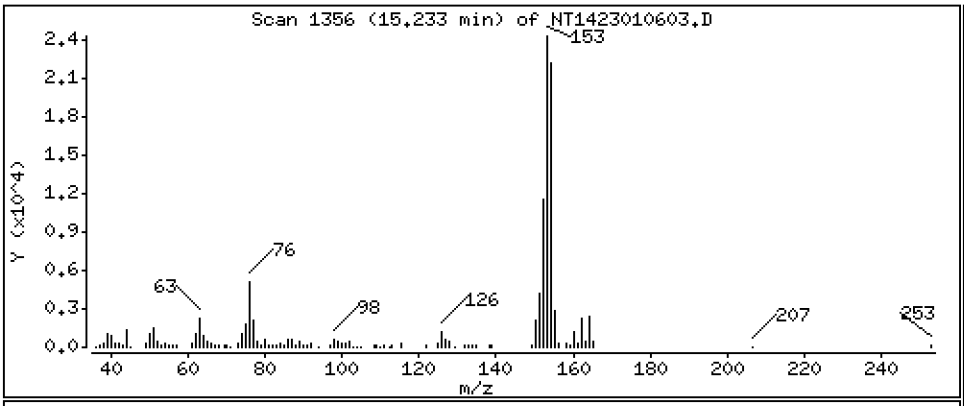
Operator: VTS

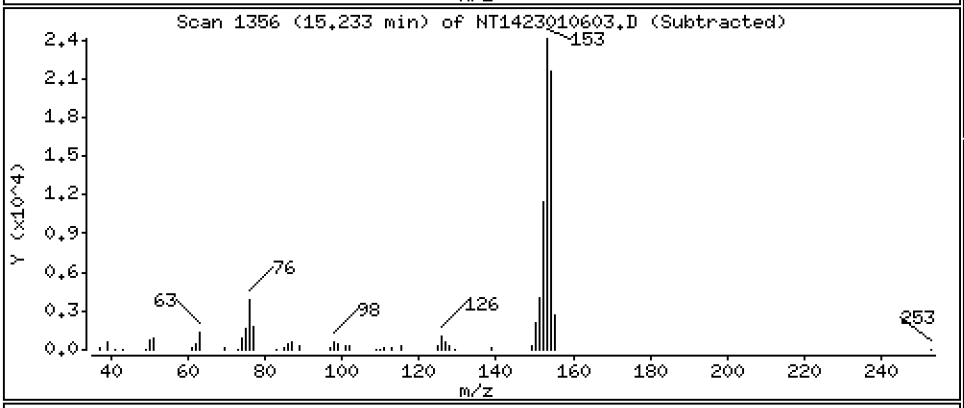
Column phase: ZB-5msi

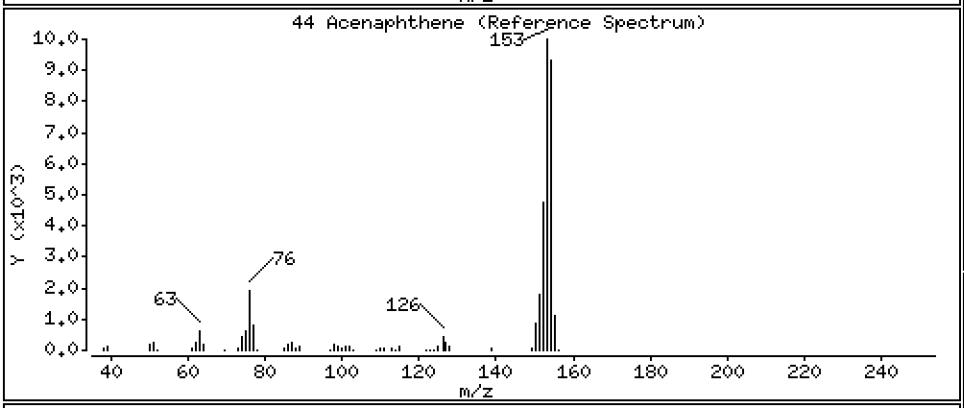
Column diameter: 0.25

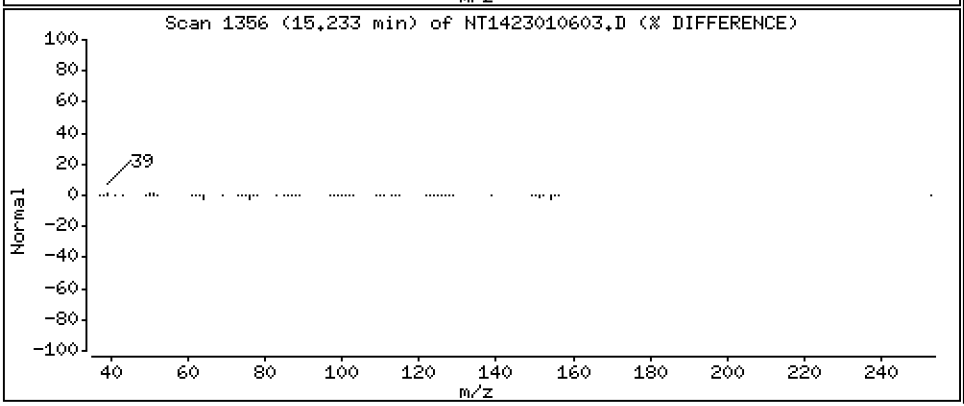
44 Acenaphthene

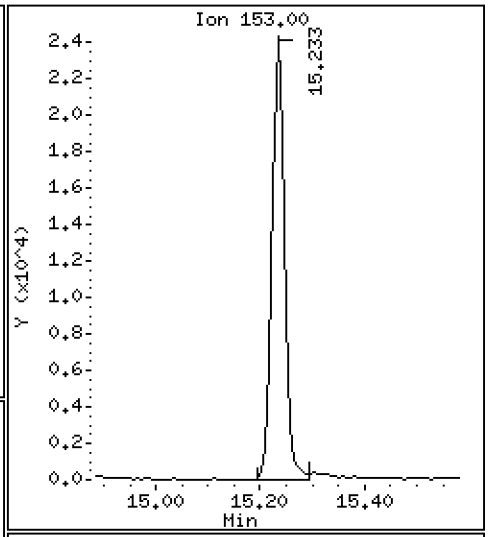
Concentration: 0.4698 ug/mL

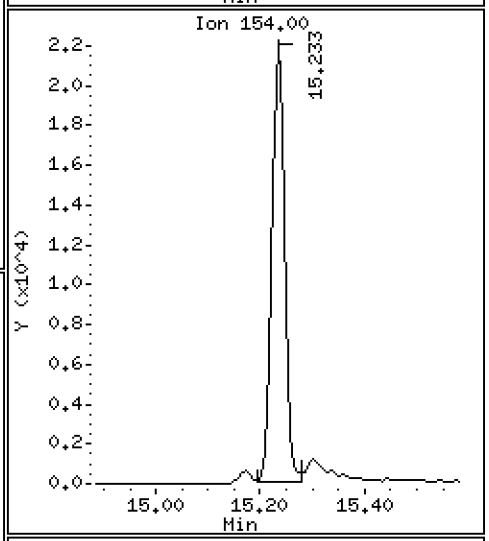


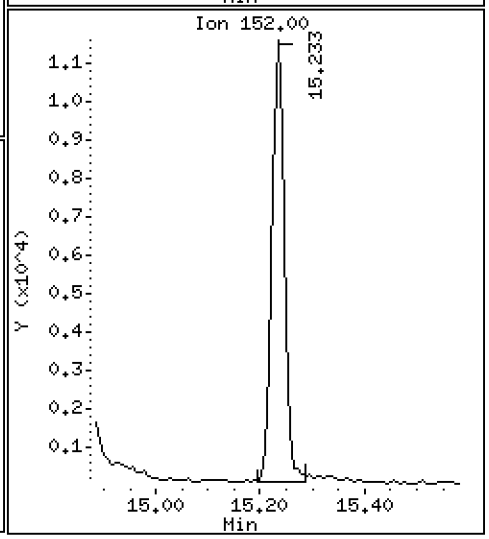












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

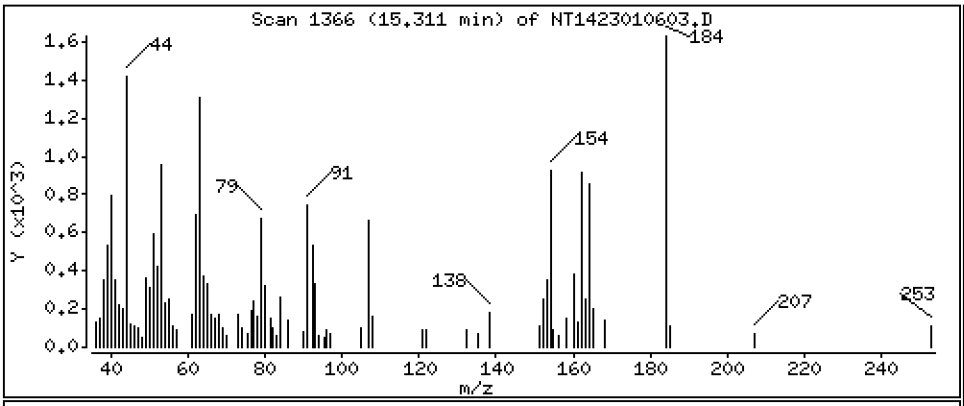
Operator: VTS

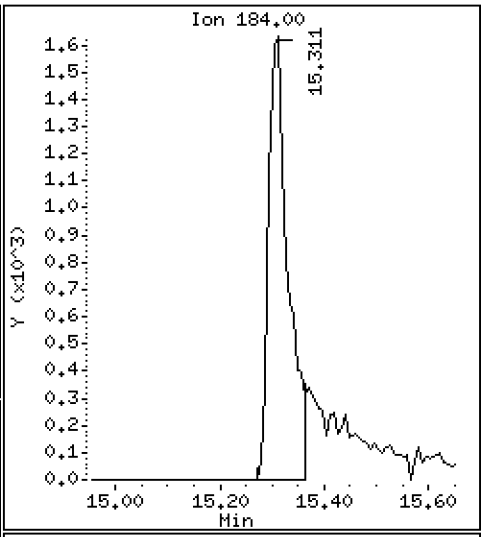
Column phase: ZB-5msi

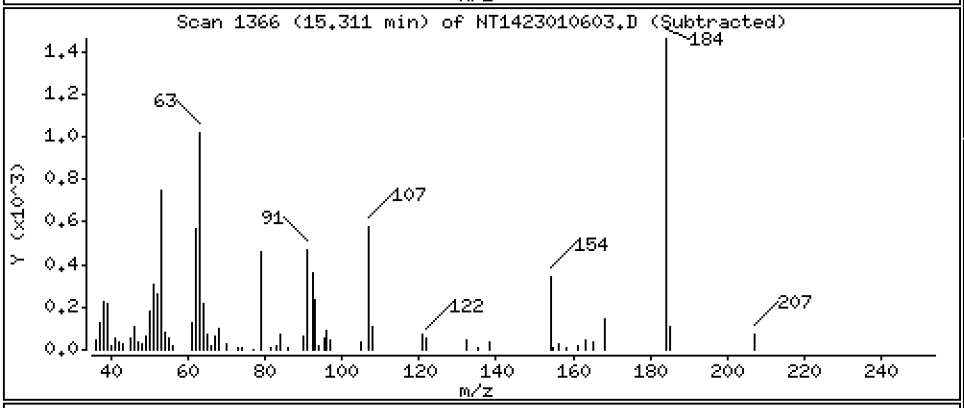
Column diameter: 0.25

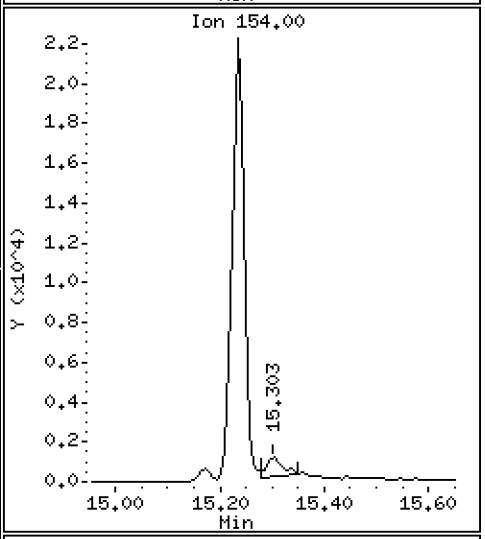
45 2,4-Dinitrophenol

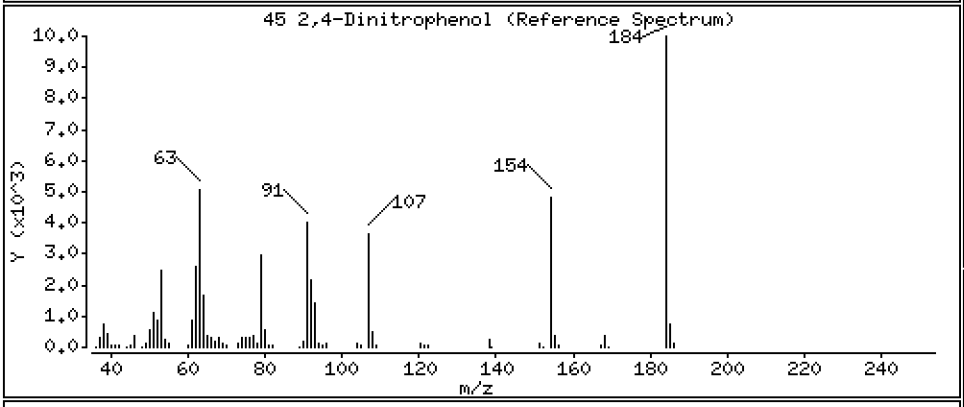
Concentration: 0.2574 ug/mL

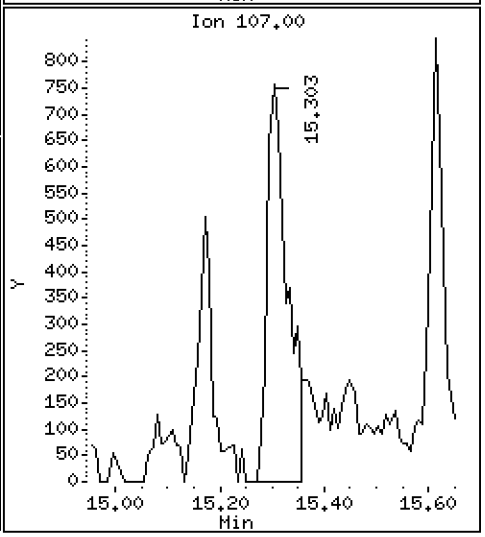


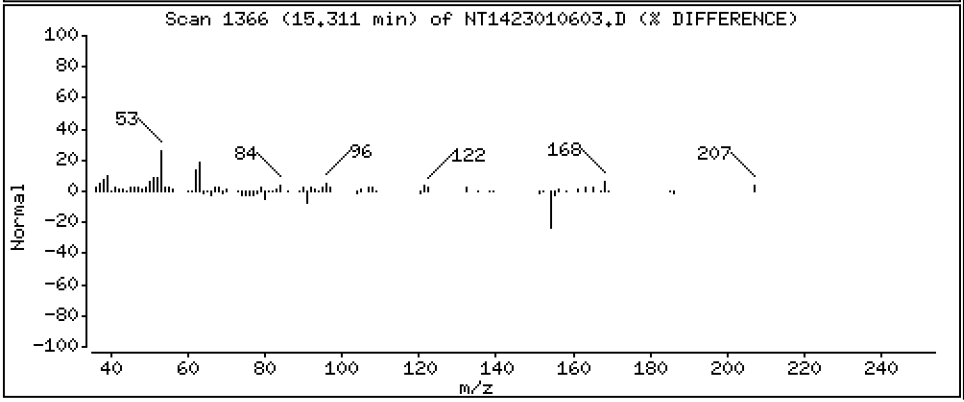












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

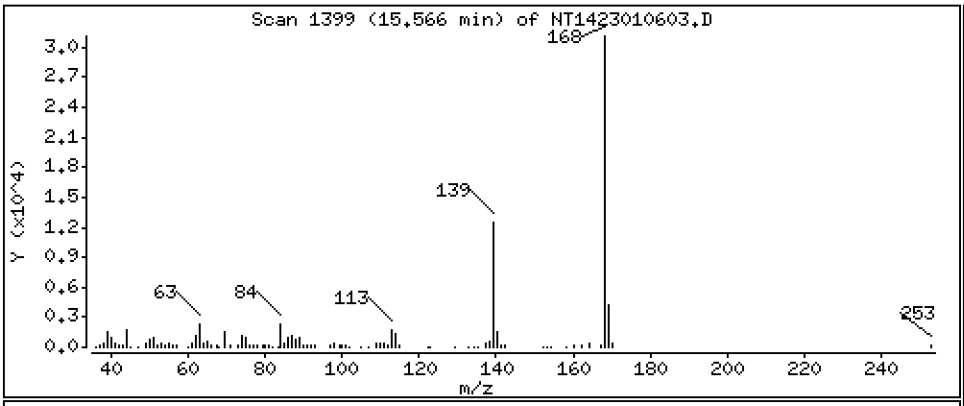
Operator: VTS

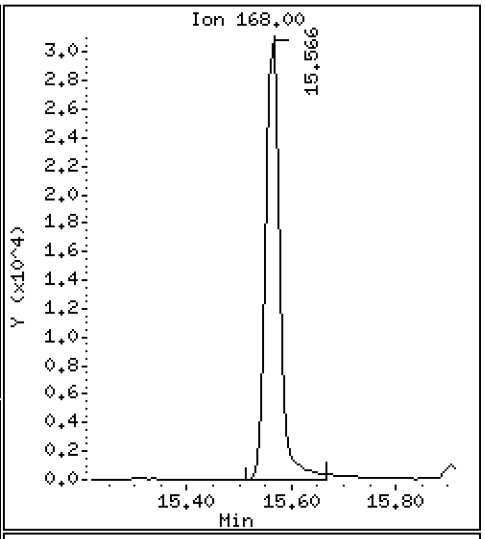
Column phase: ZB-5msi

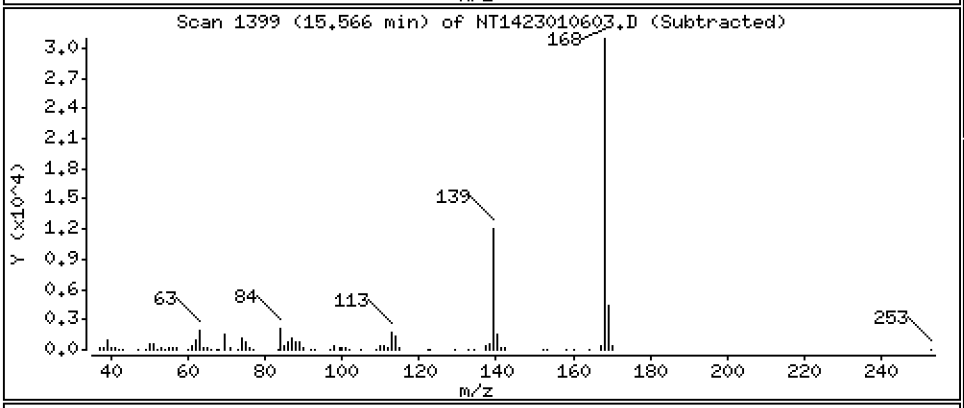
Column diameter: 0.25

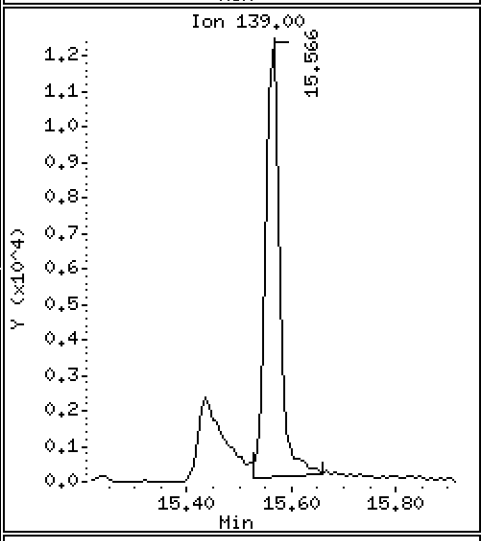
46 Dibenzofuran

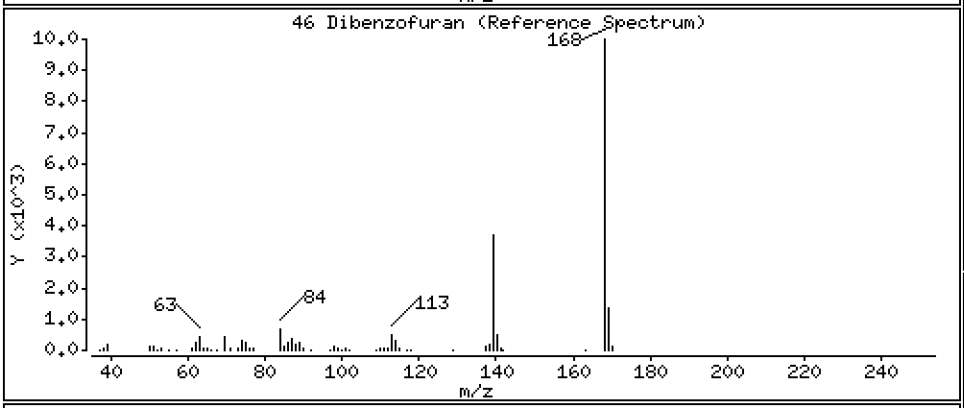
Concentration: 0.4574 ug/mL

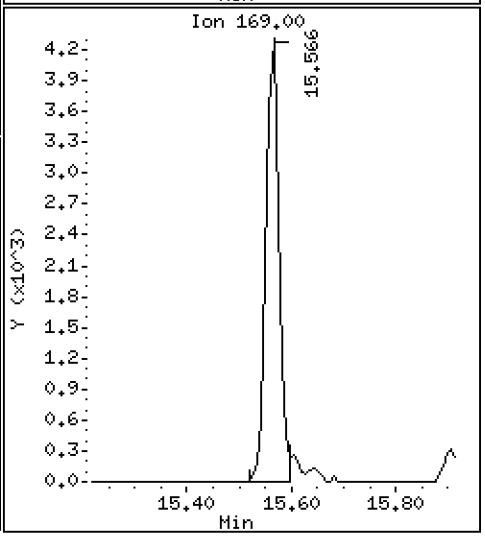


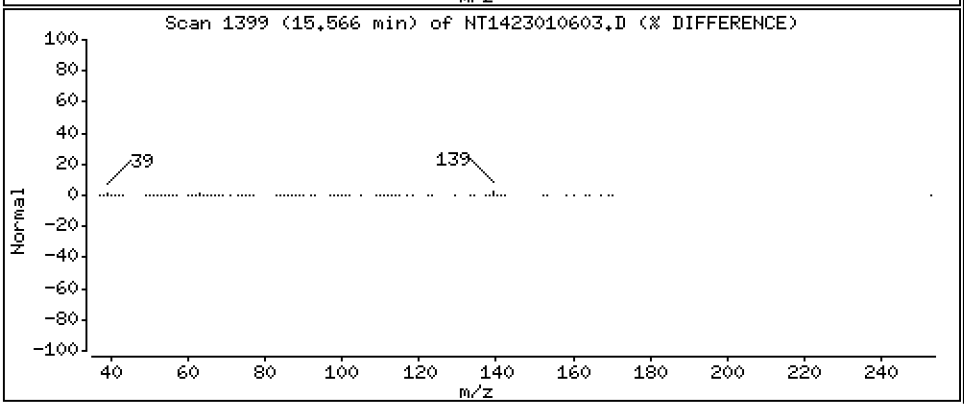












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

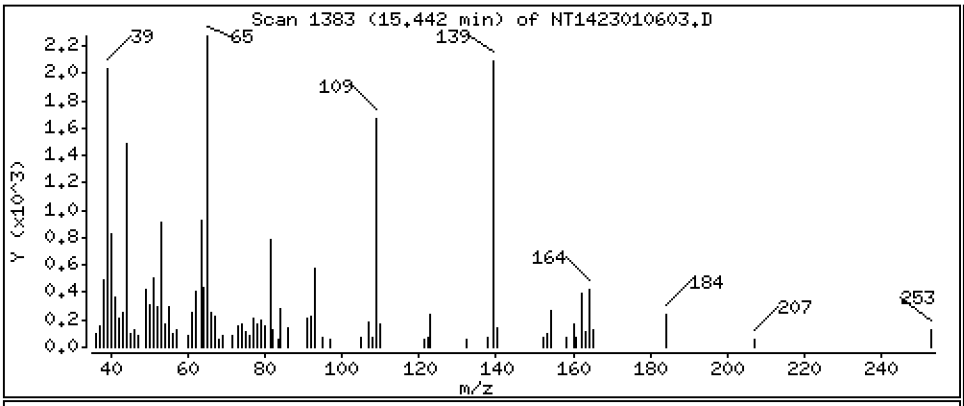
Operator: VTS

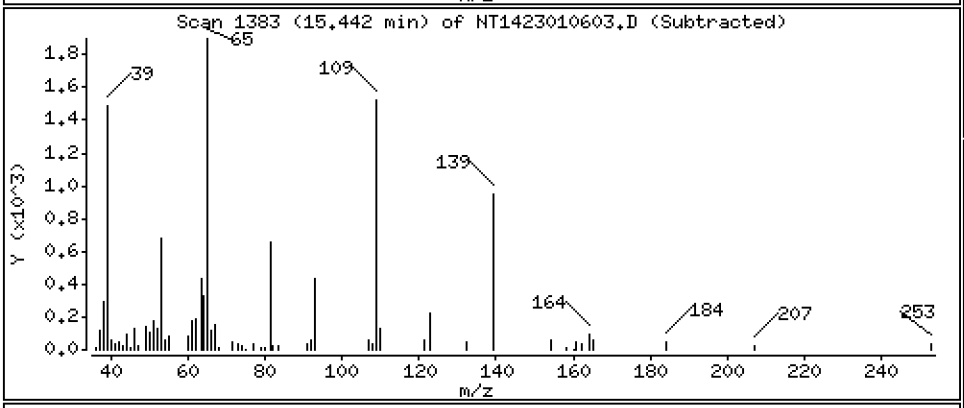
Column phase: ZB-5msi

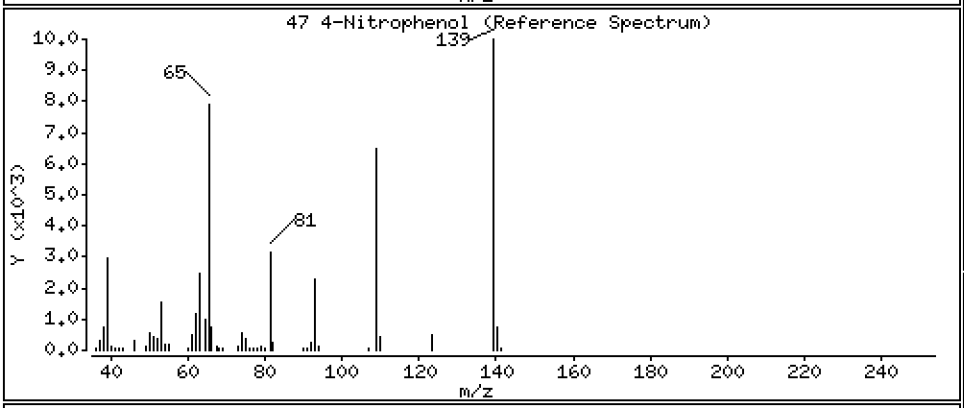
Column diameter: 0.25

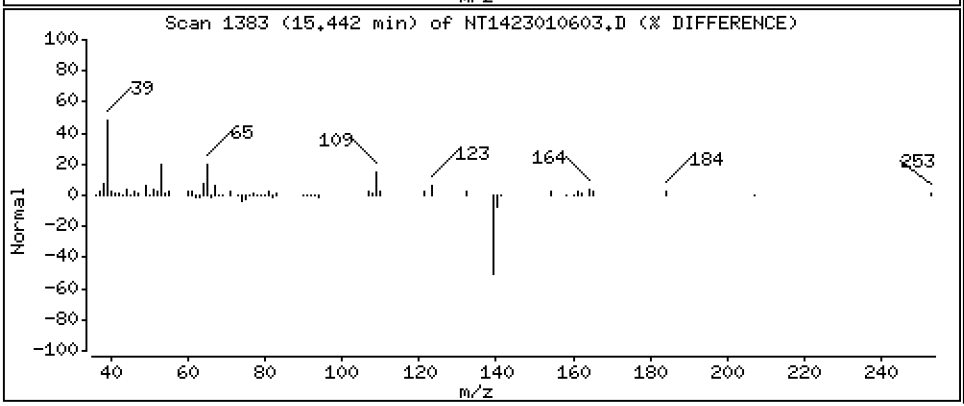
47 4-Nitrophenol

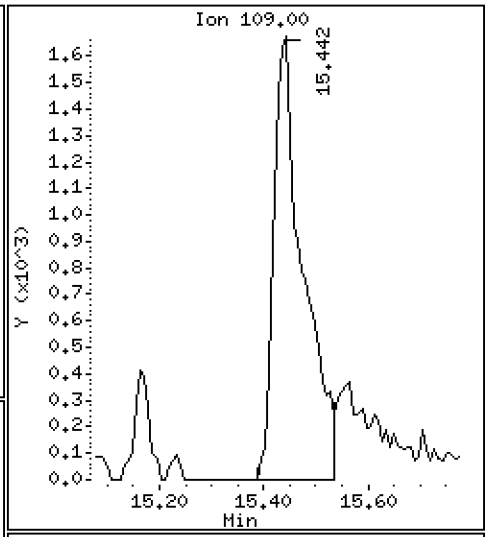
Concentration: 0.5797 ug/mL

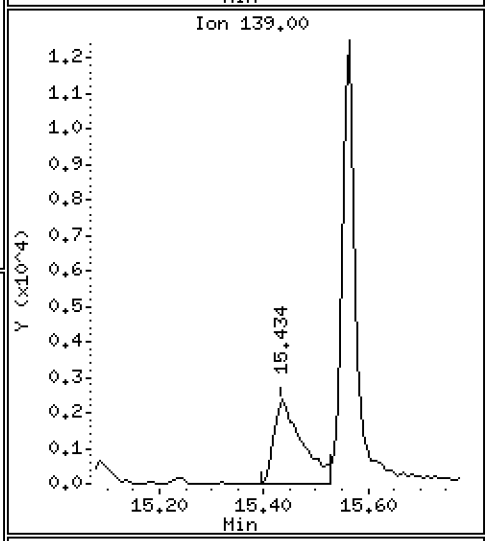


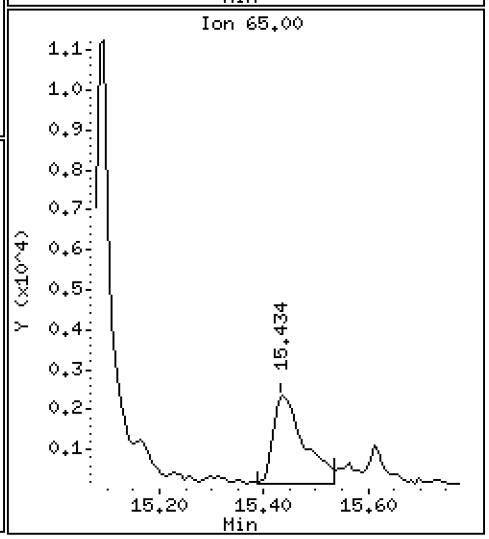












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

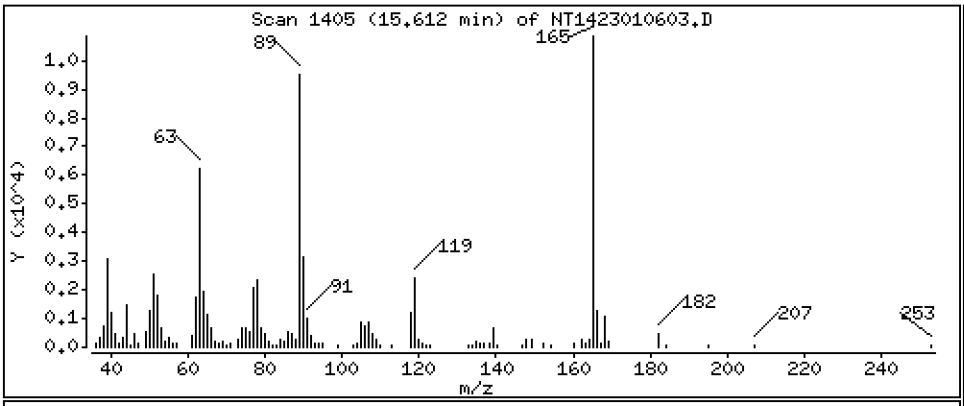
Operator: VTS

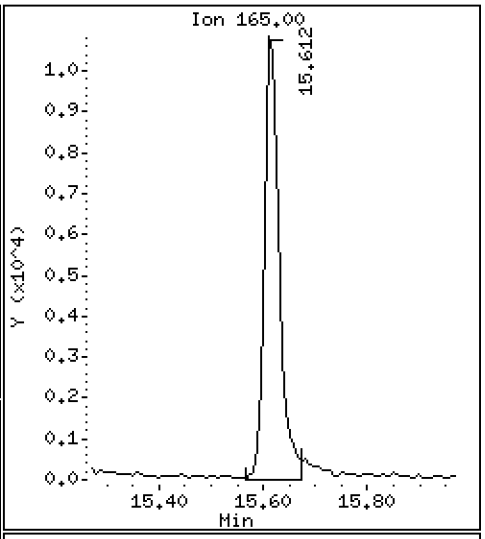
Column phase: ZB-5msi

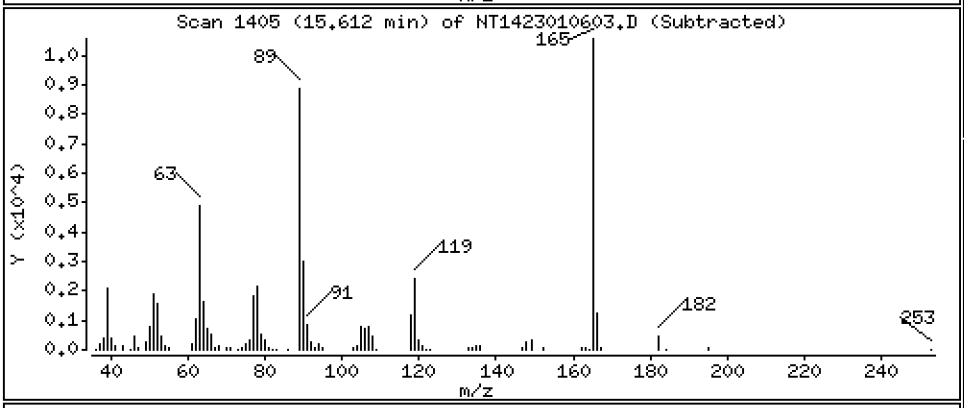
Column diameter: 0.25

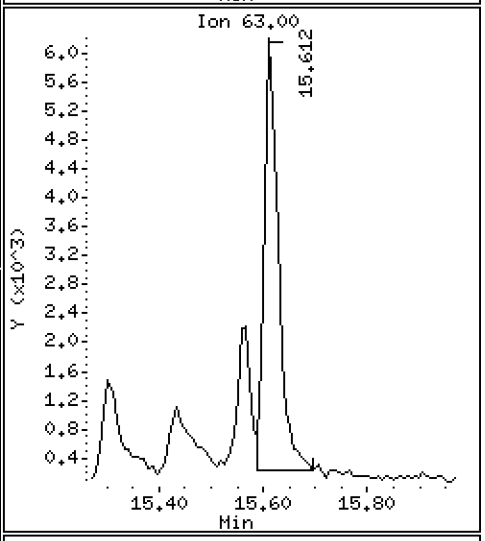
48 2,4-Dinitrotoluene

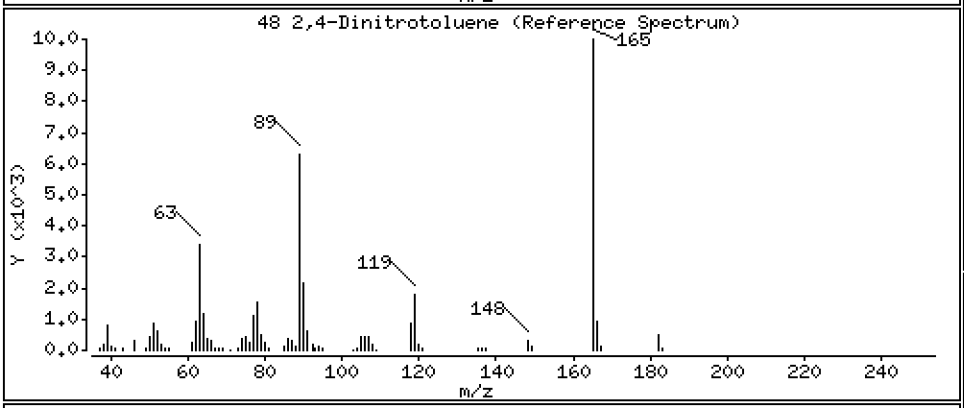
Concentration: 0.7878 ug/mL

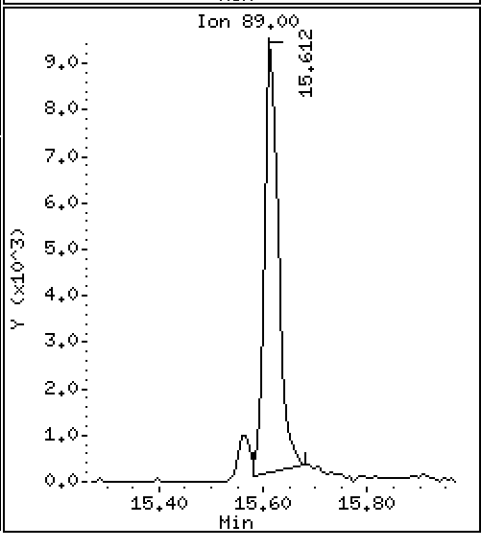


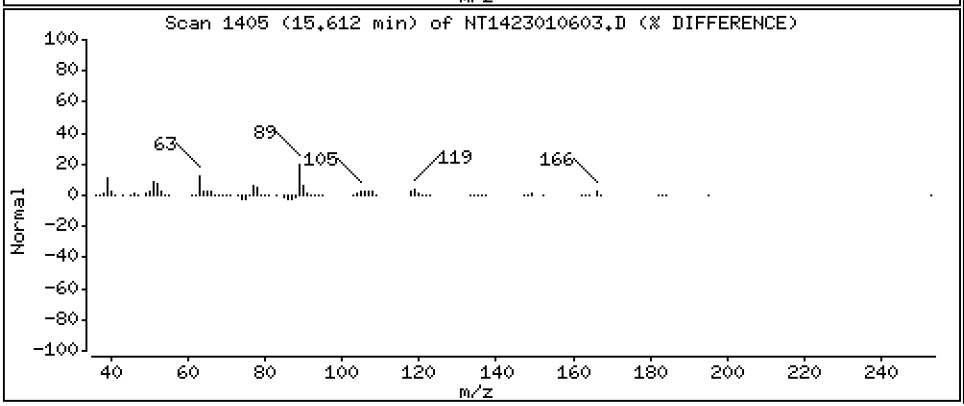












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

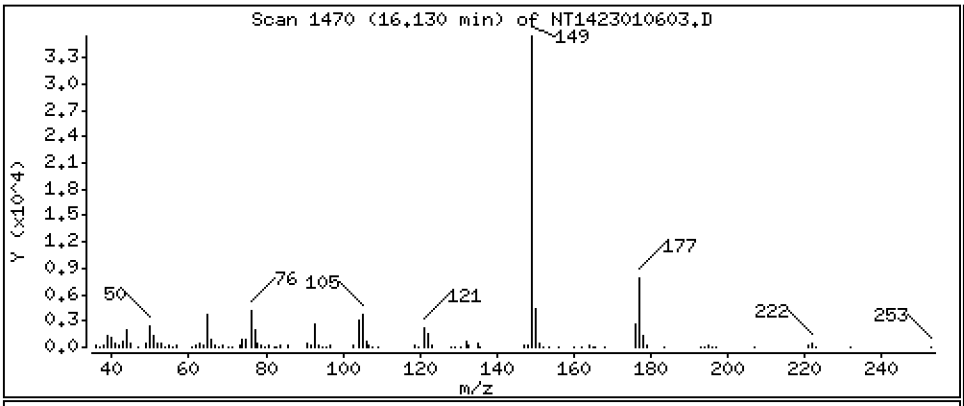
Operator: VTS

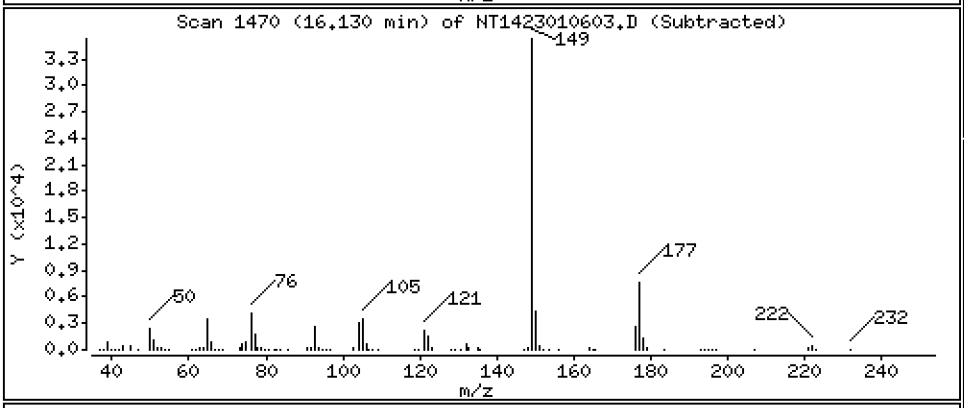
Column phase: ZB-5msi

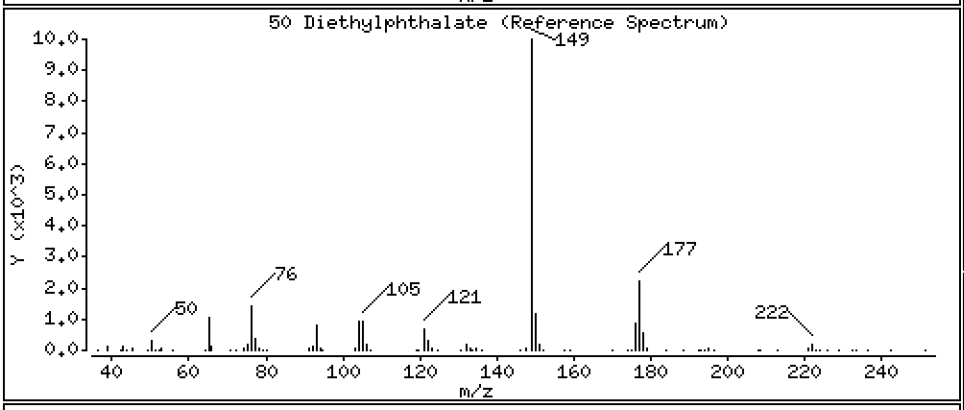
Column diameter: 0.25

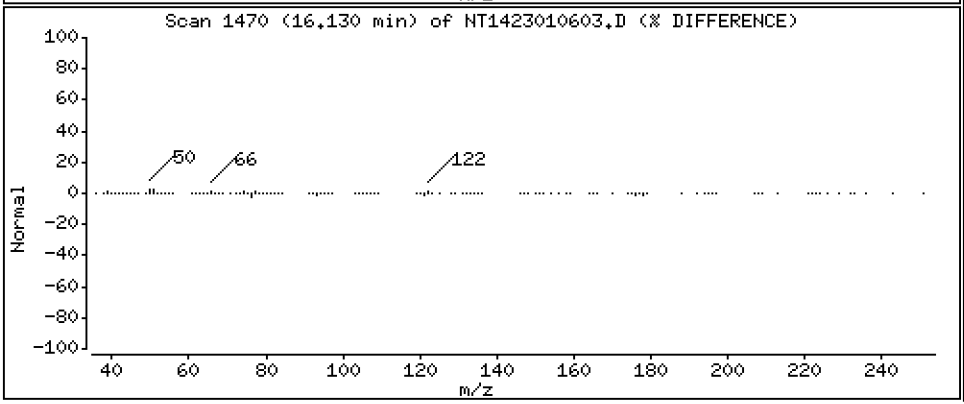
50 Diethylphthalate

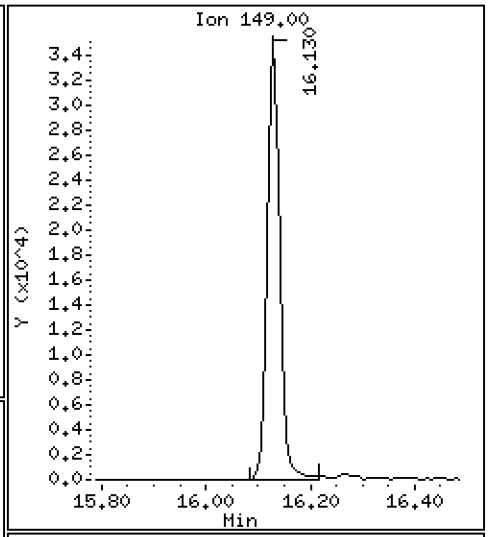
Concentration: 0.5351 ug/mL

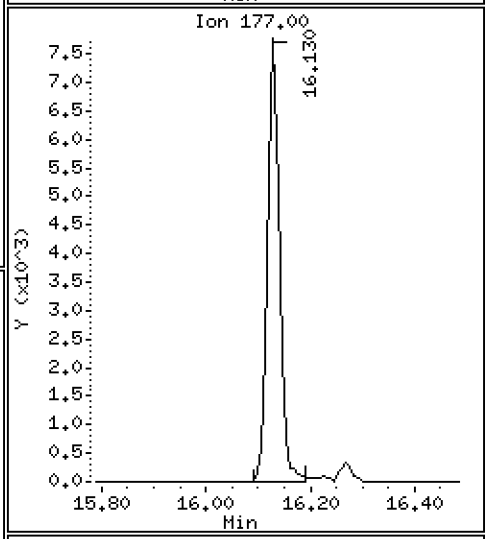


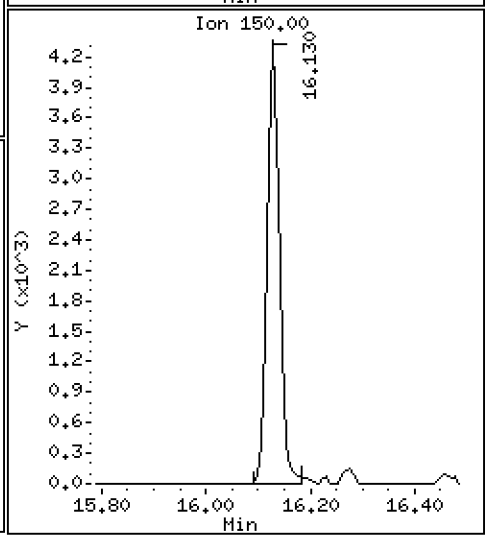












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

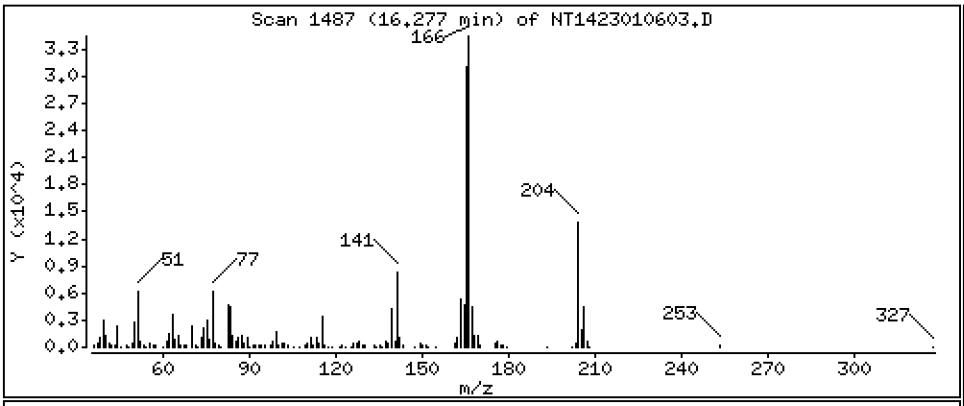
Operator: VTS

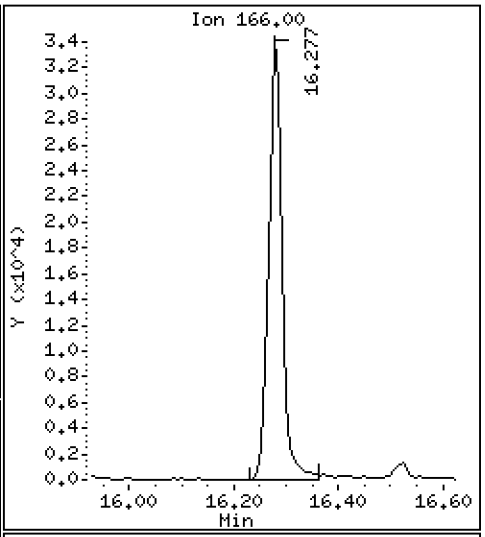
Column phase: ZB-5msi

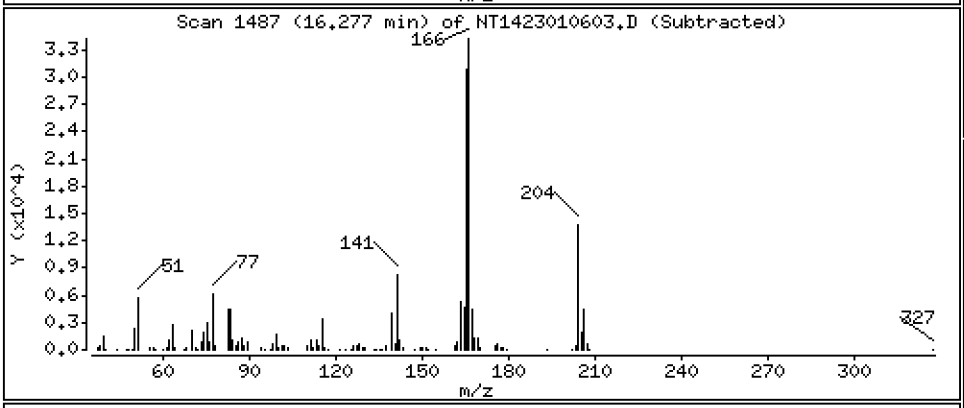
Column diameter: 0.25

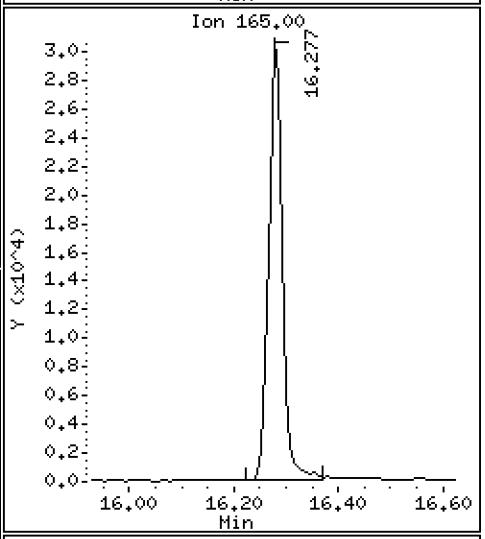
49 Fluorene

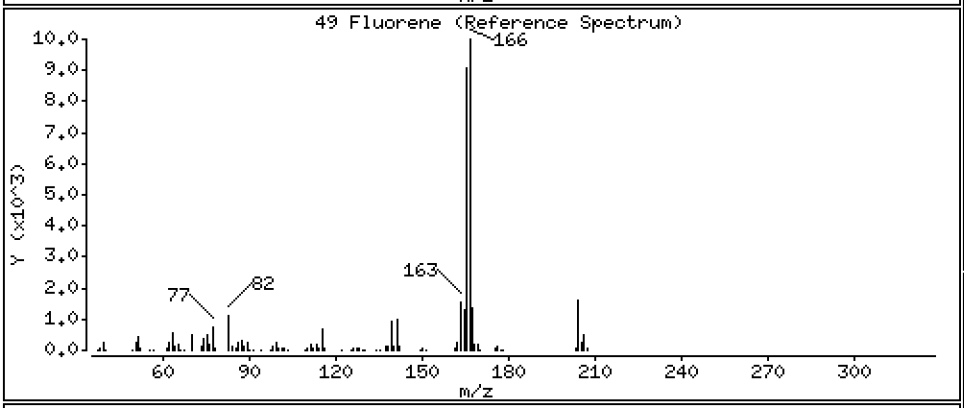
Concentration: 0.4623 ug/mL

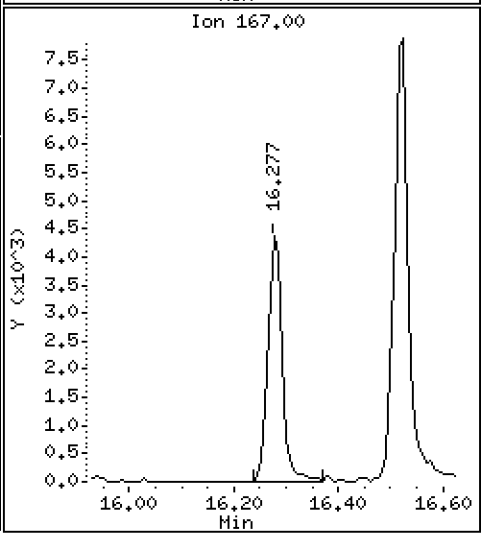


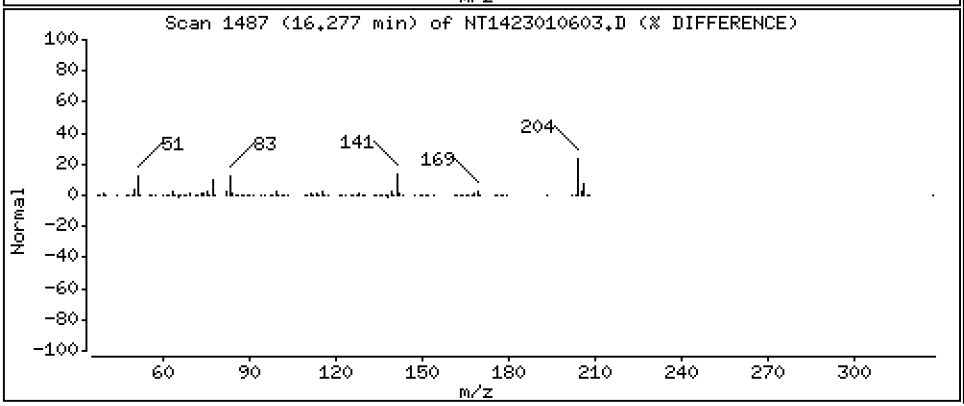












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

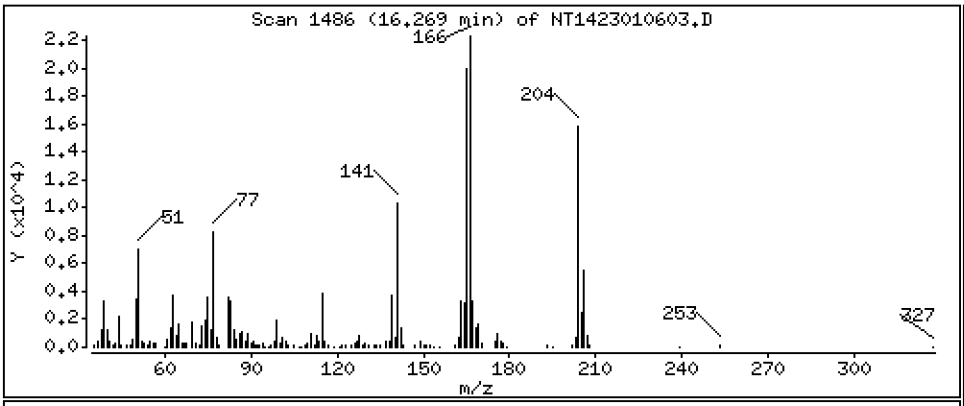
Operator: VTS

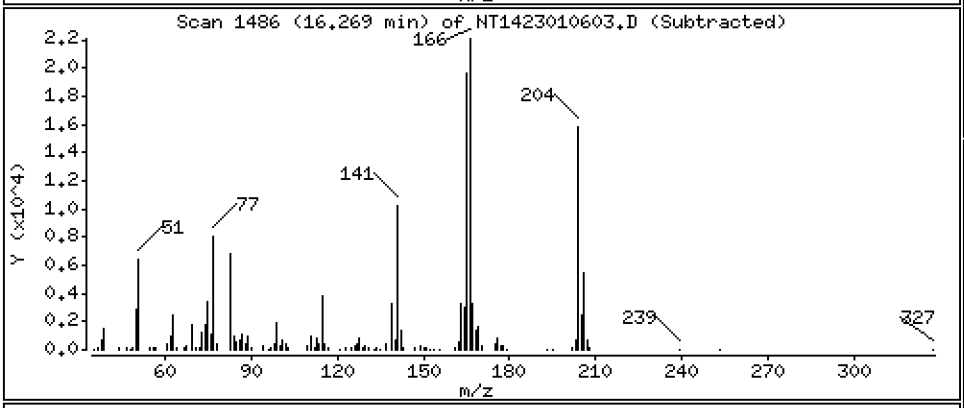
Column phase: ZB-5msi

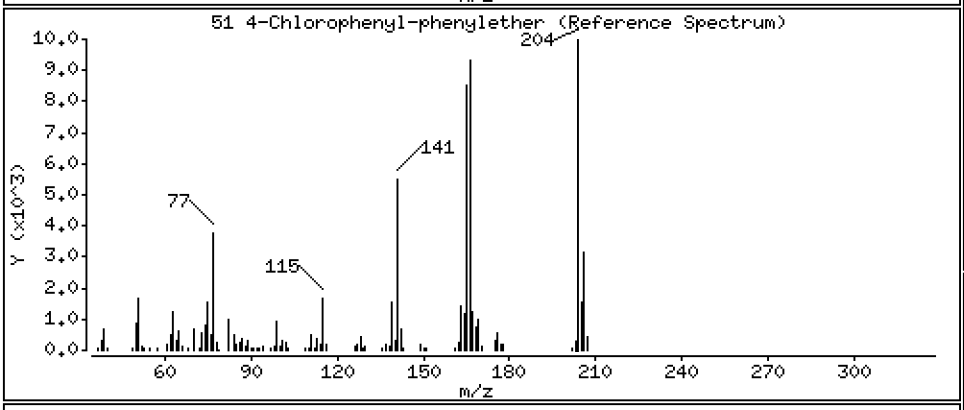
Column diameter: 0.25

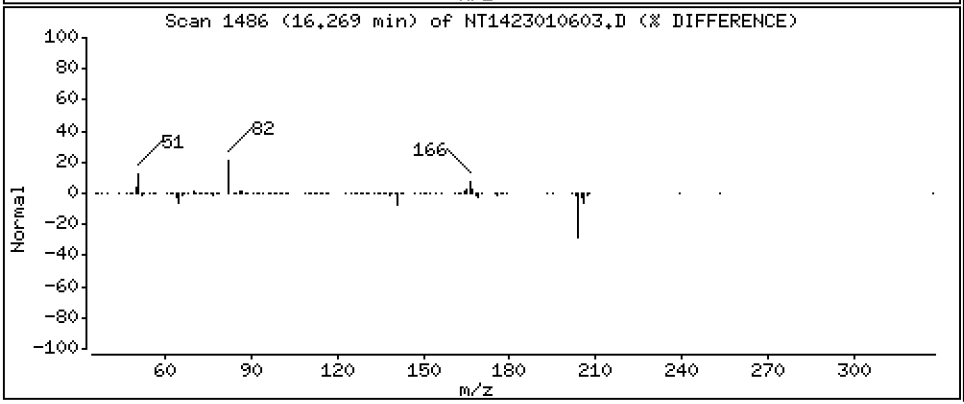
51 4-Chlorophenyl-phenylether

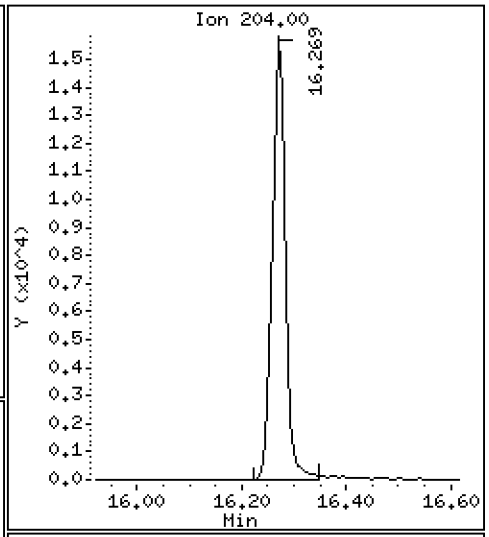
Concentration: 0.4223 ug/mL

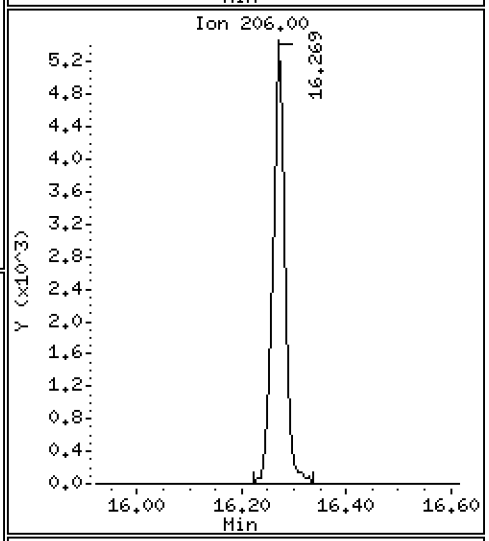


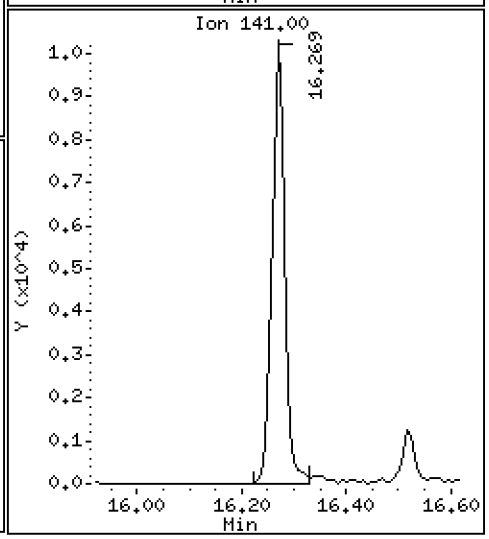












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

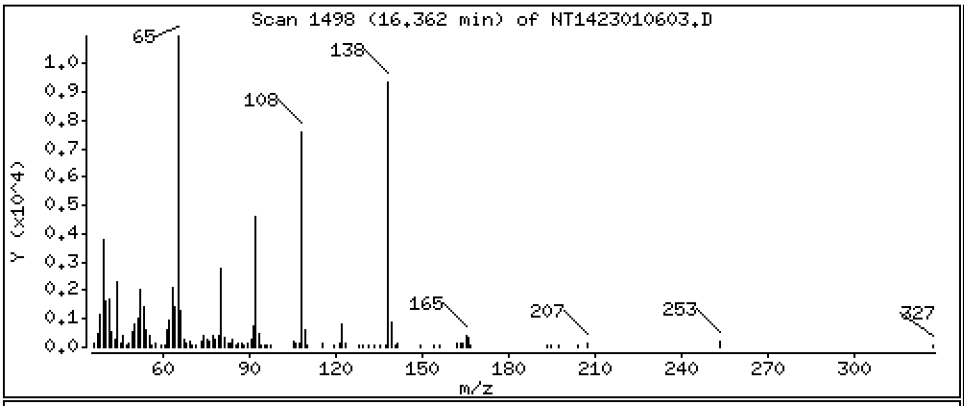
Operator: VTS

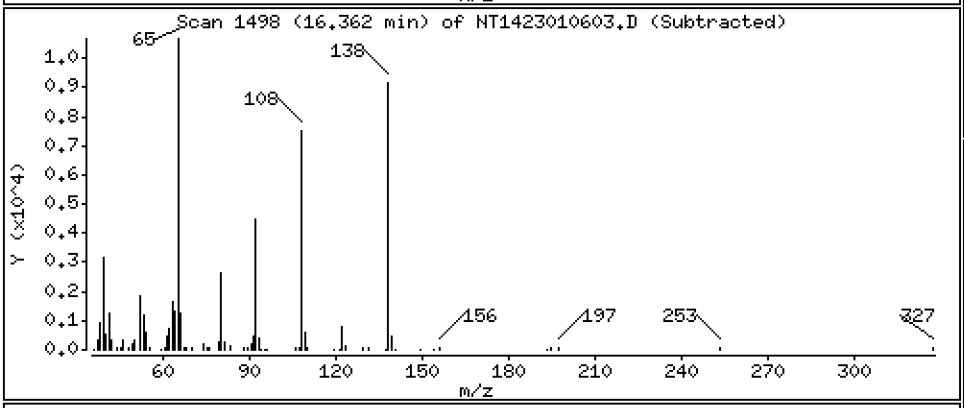
Column phase: ZB-5msi

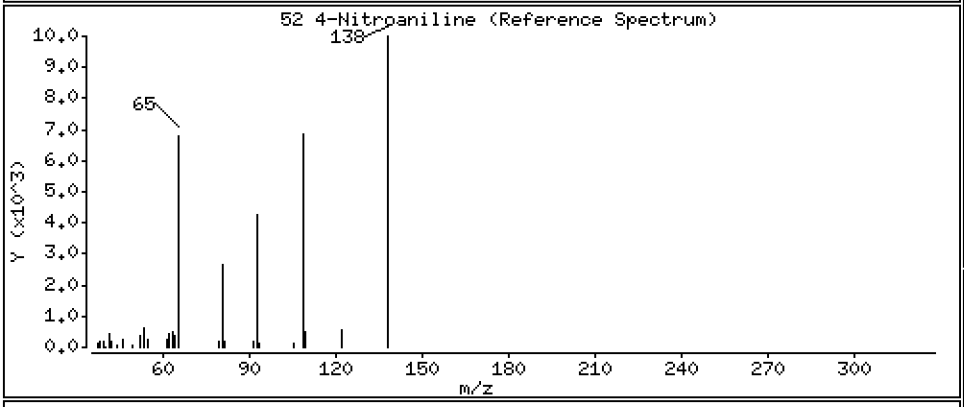
Column diameter: 0.25

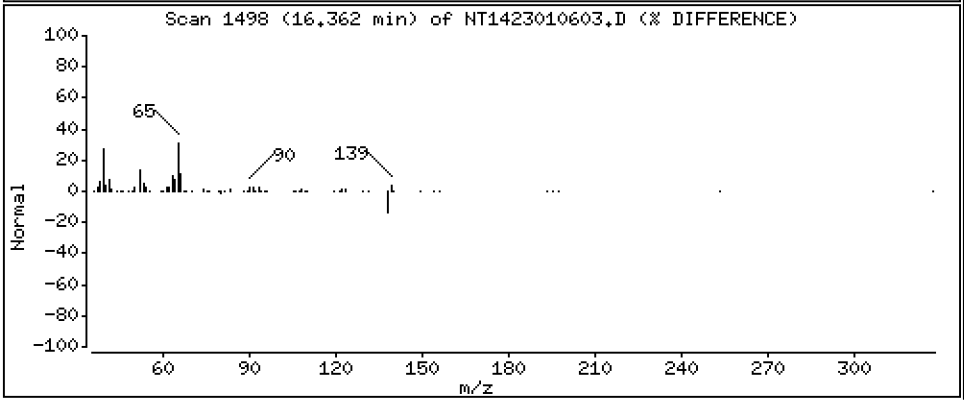
52 4-Nitroaniline

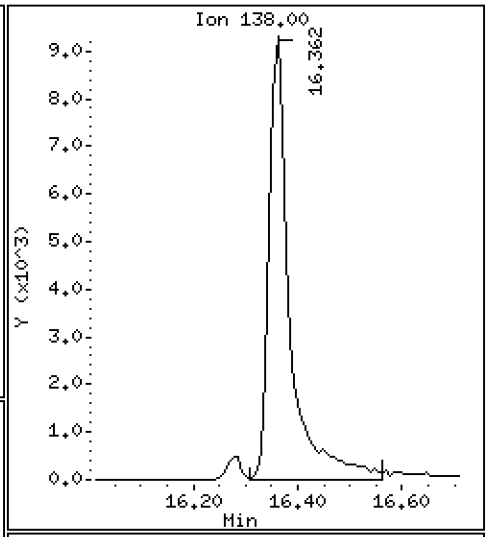
Concentration: 0.8951 ug/mL

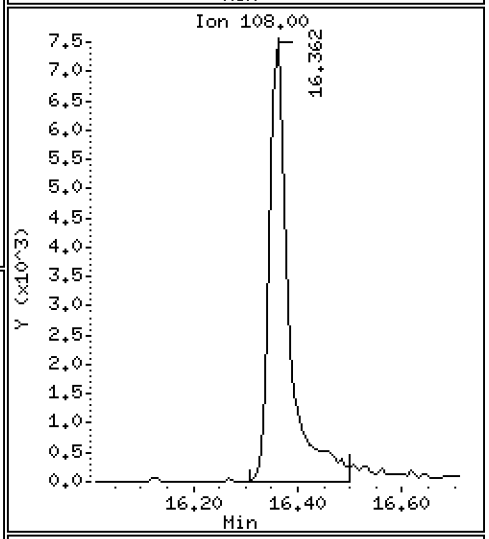


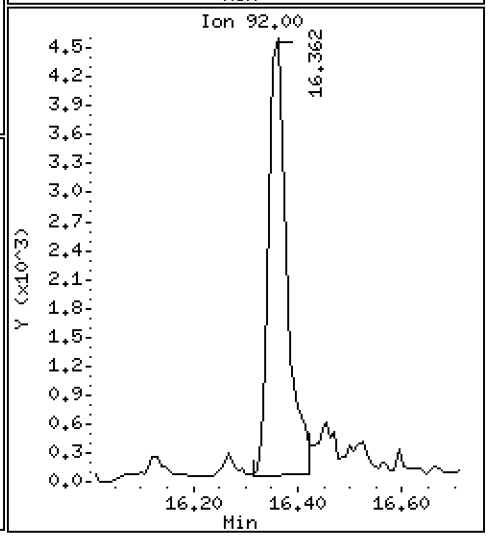












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

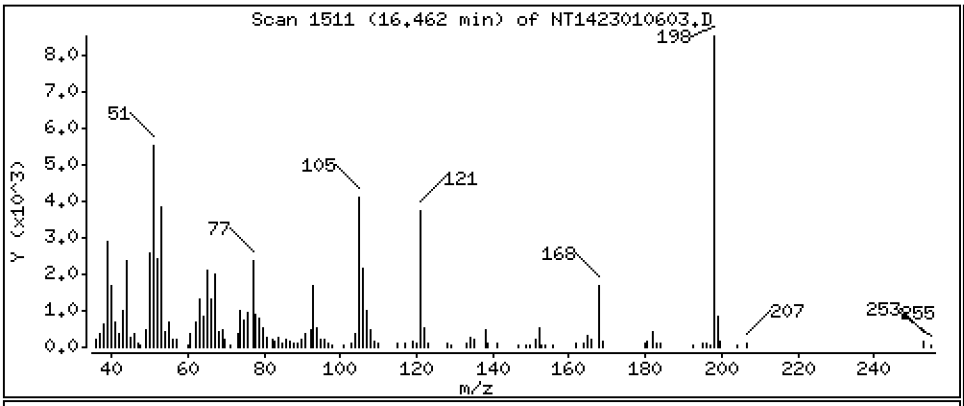
Operator: VTS

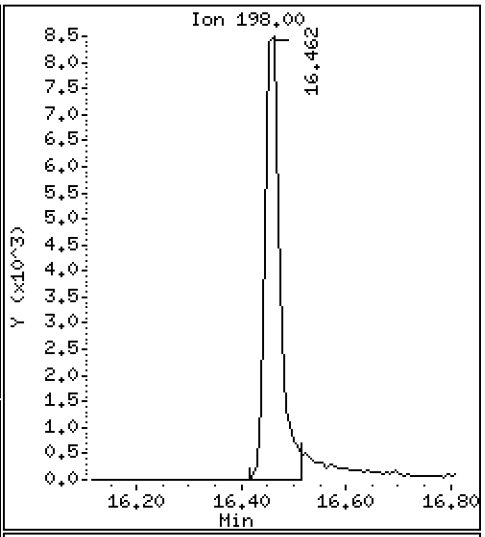
Column phase: ZB-5msi

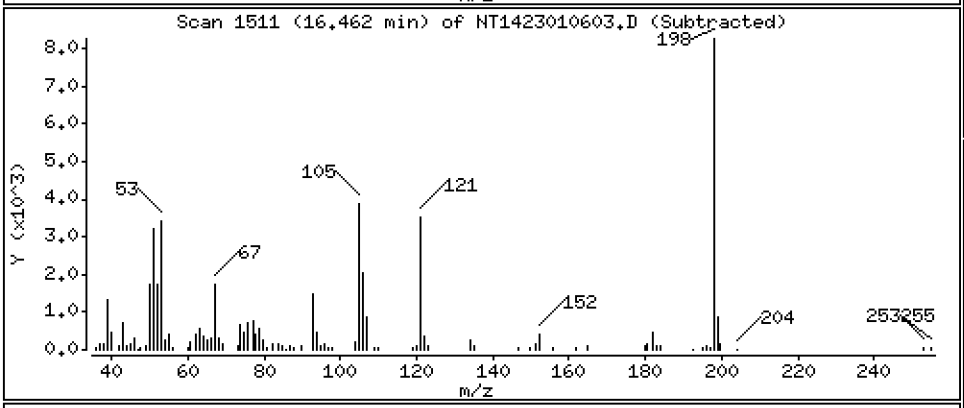
Column diameter: 0.25

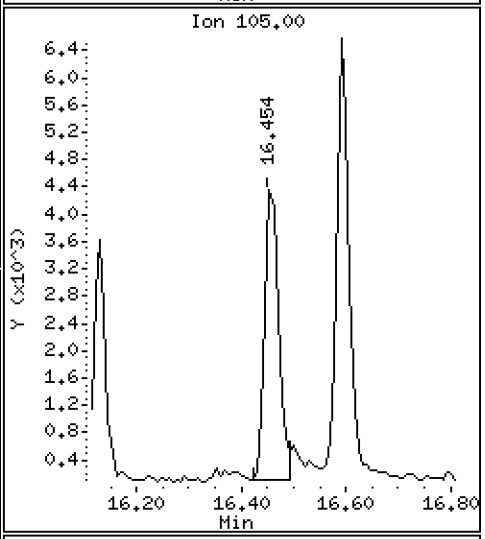
53 4,6-Dinitro-2-methylphenol

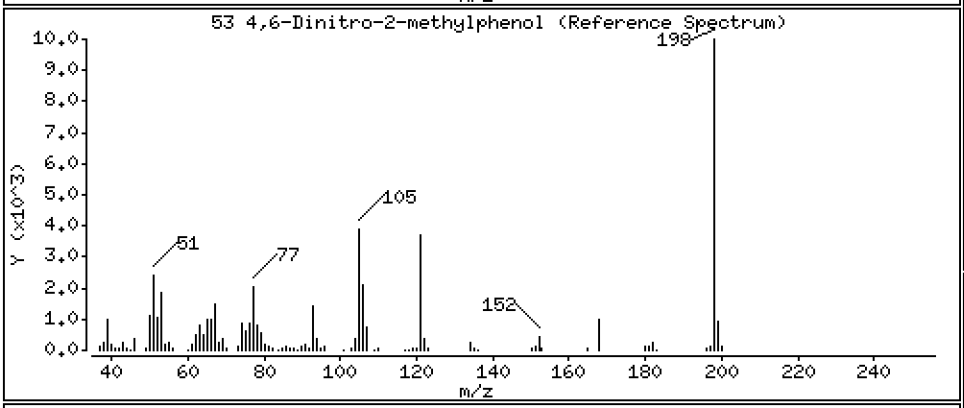
Concentration: 0.7687 ug/mL

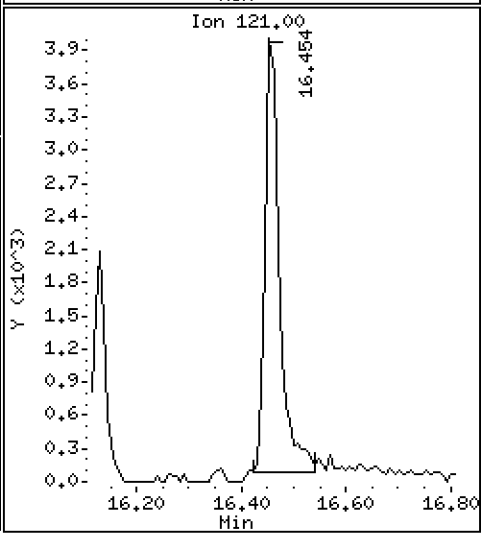


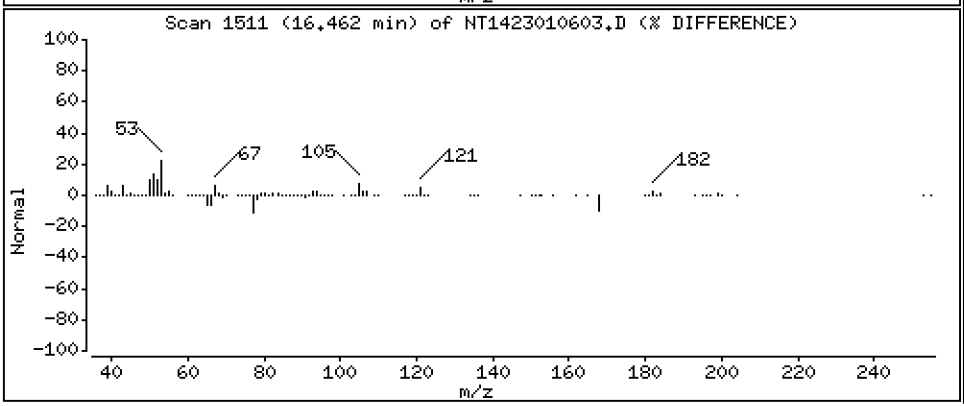












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

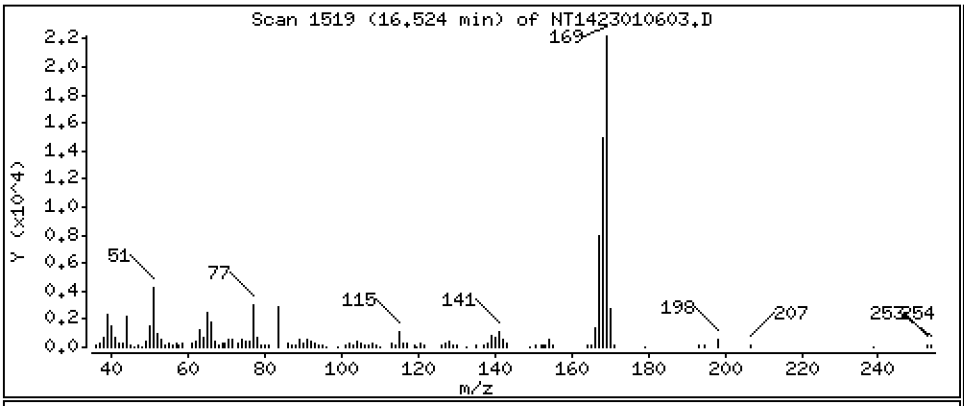
Operator: VTS

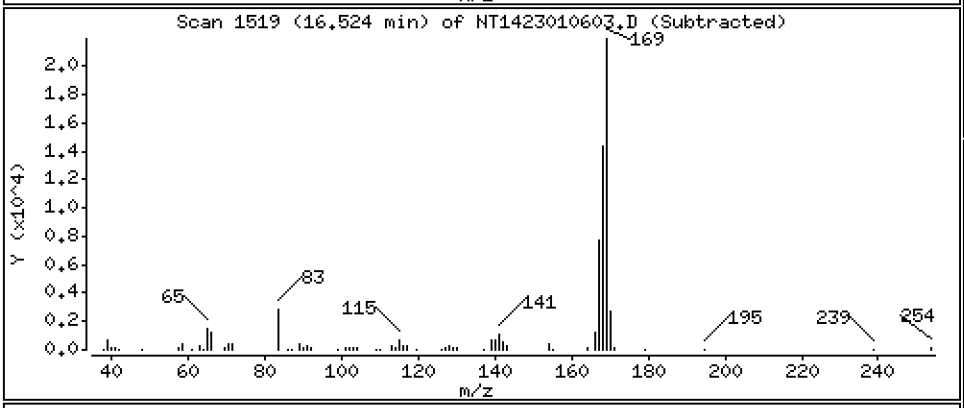
Column phase: ZB-5msi

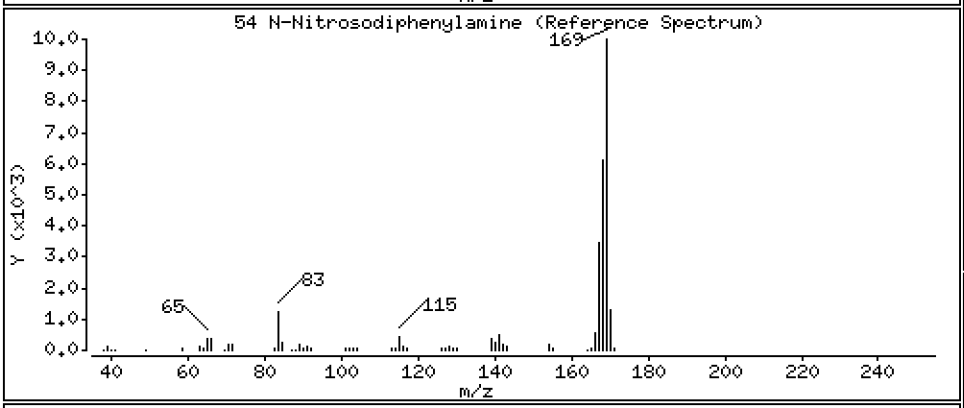
Column diameter: 0.25

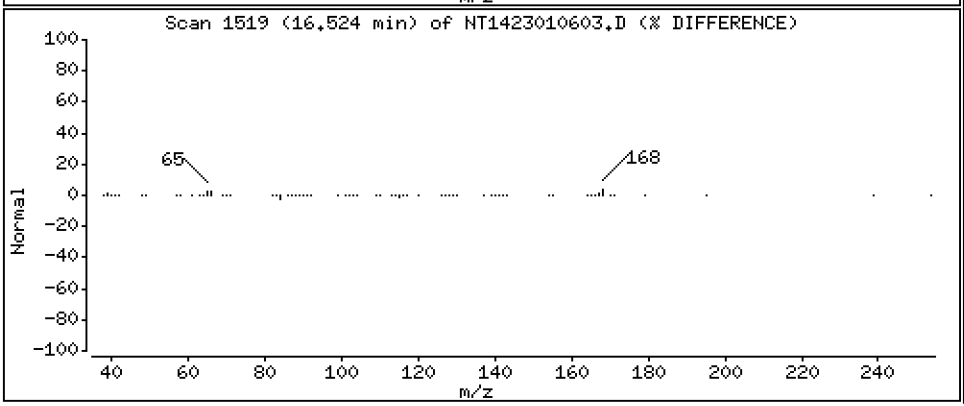
54 N-Nitrosodiphenylamine

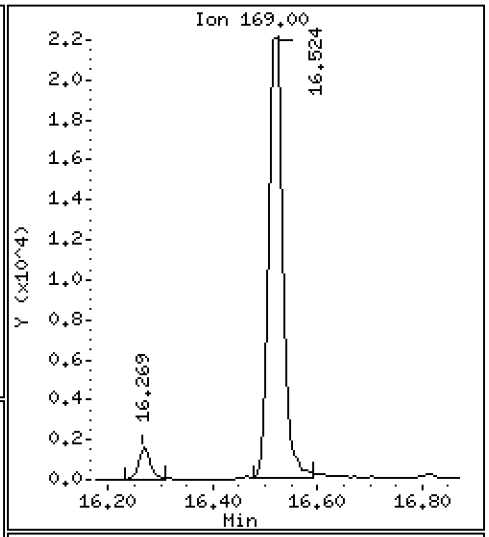
Concentration: 0.4513 ug/mL

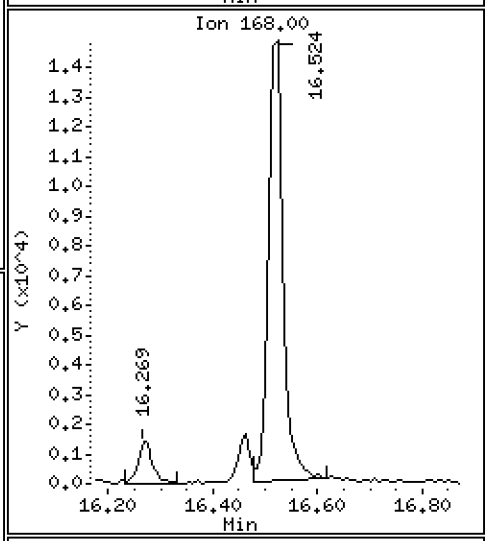


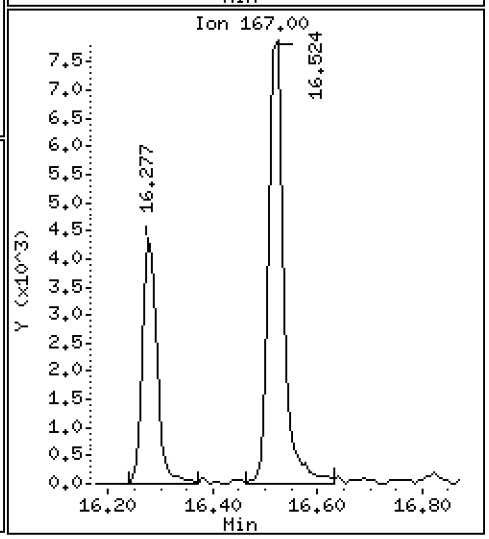












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

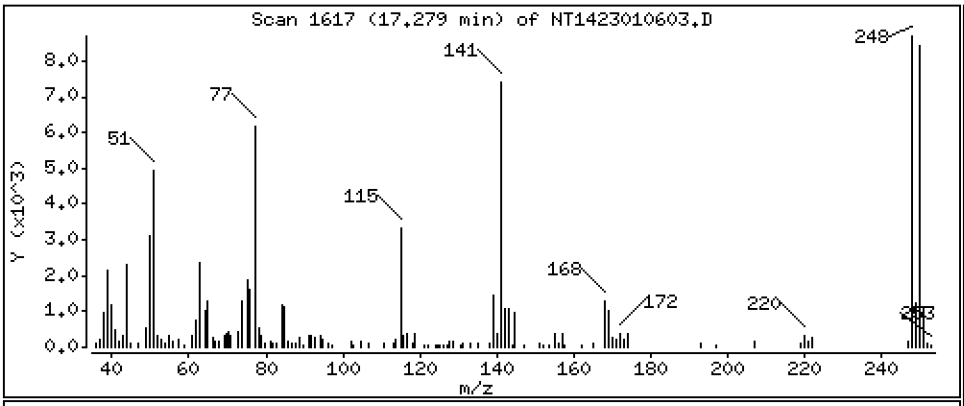
Operator: VTS

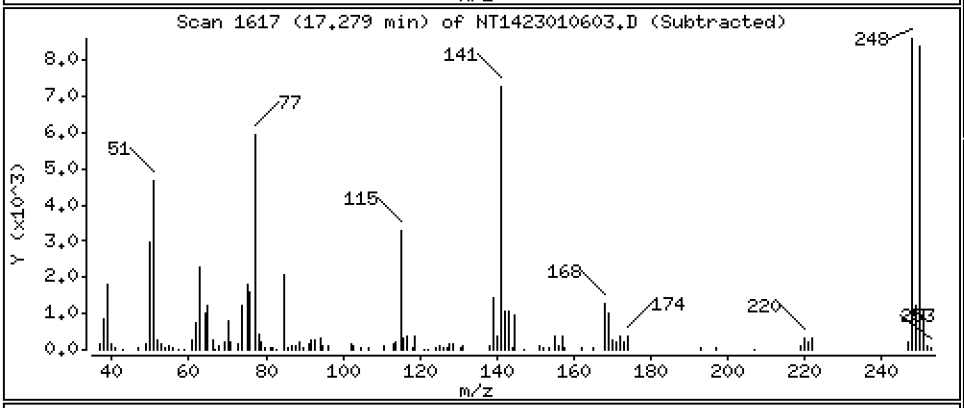
Column phase: ZB-5msi

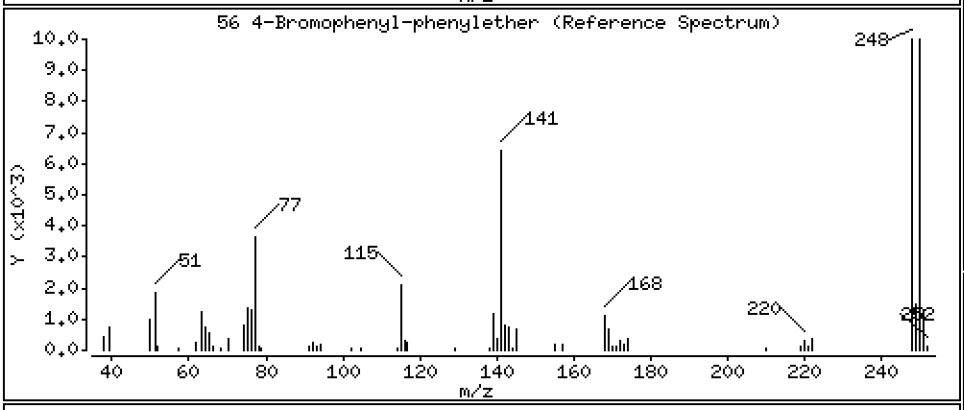
Column diameter: 0.25

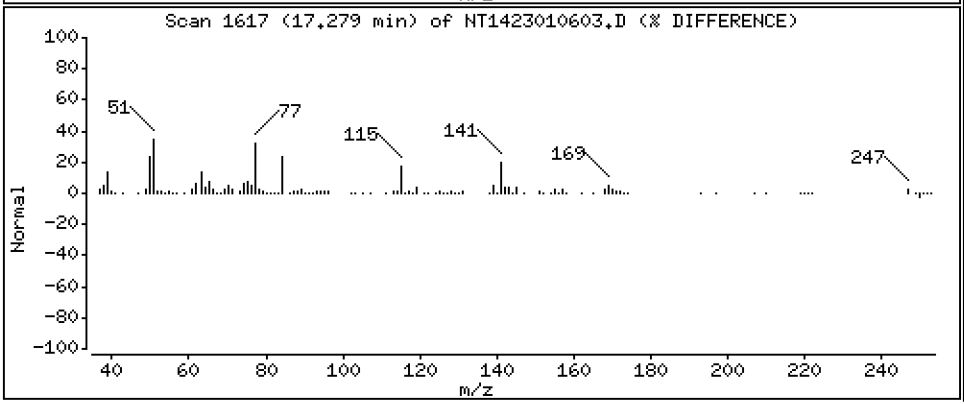
56 4-Bromophenyl-phenylether

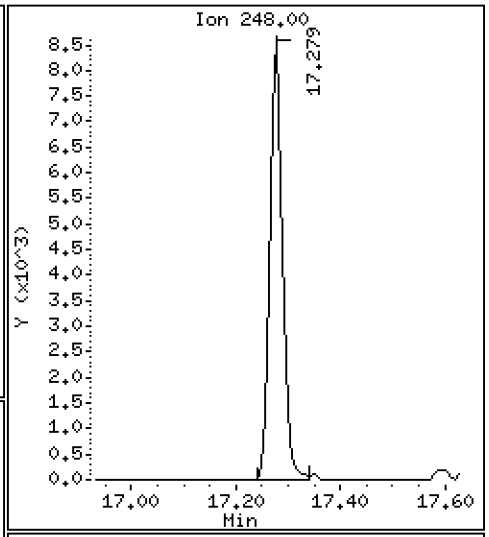
Concentration: 0.4297 ug/mL

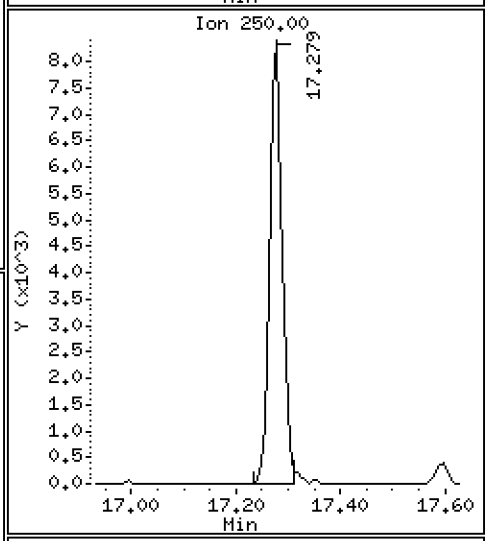


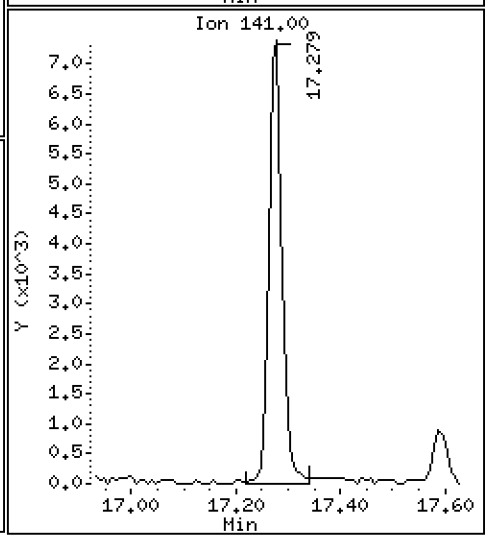












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

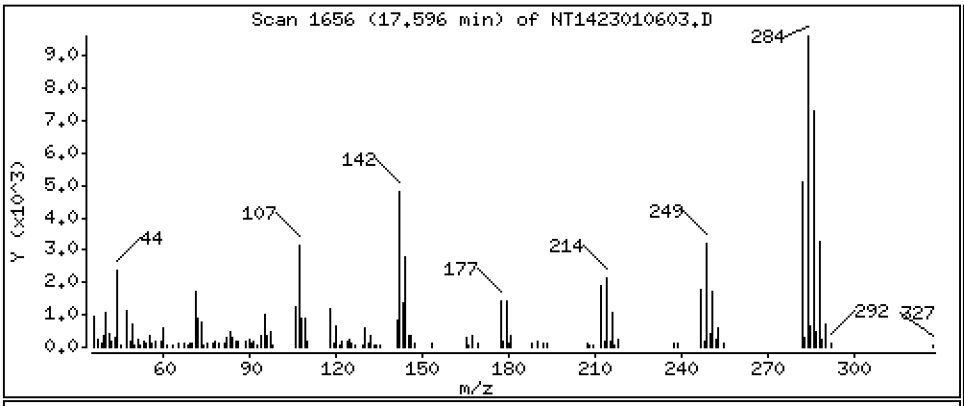
Operator: VTS

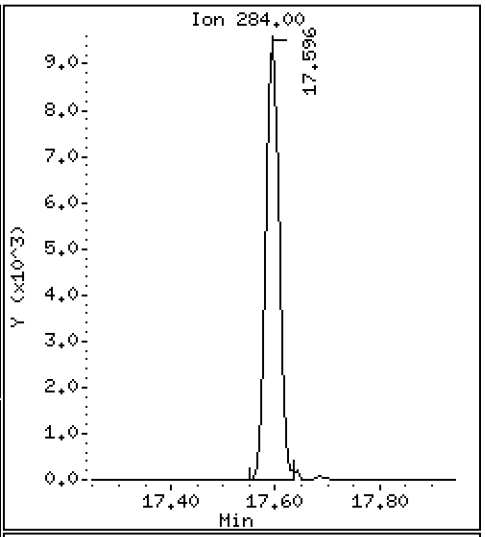
Column phase: ZB-5msi

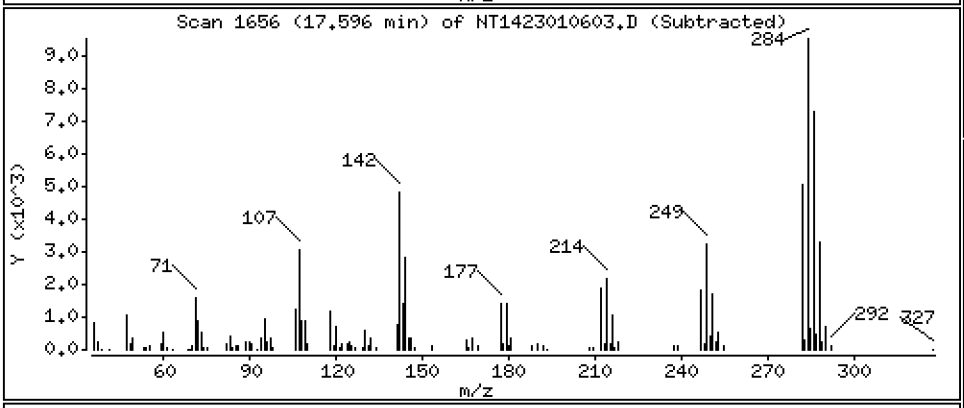
Column diameter: 0.25

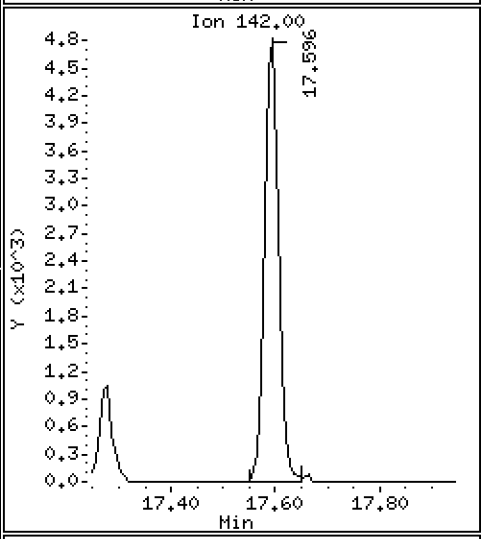
57 Hexachlorobenzene

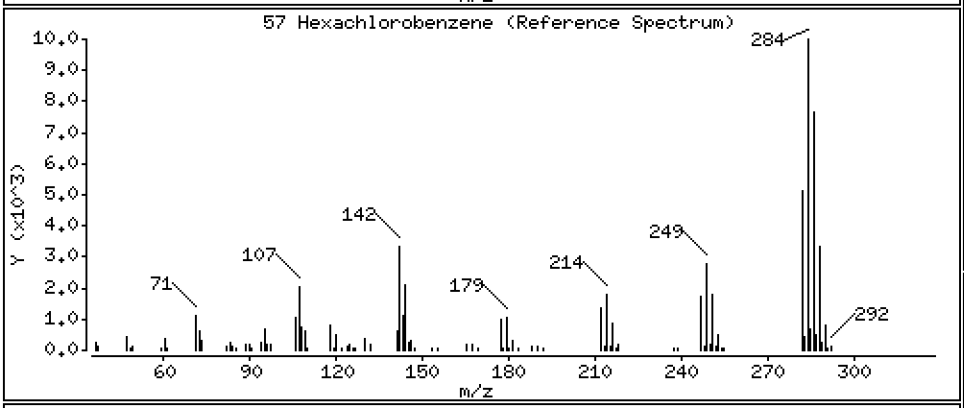
Concentration: 0.4433 ug/mL

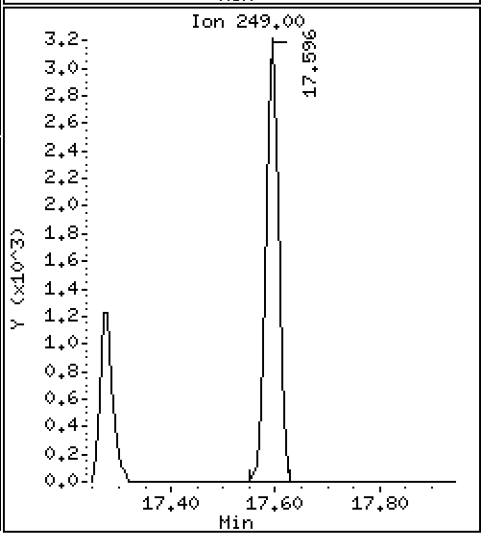


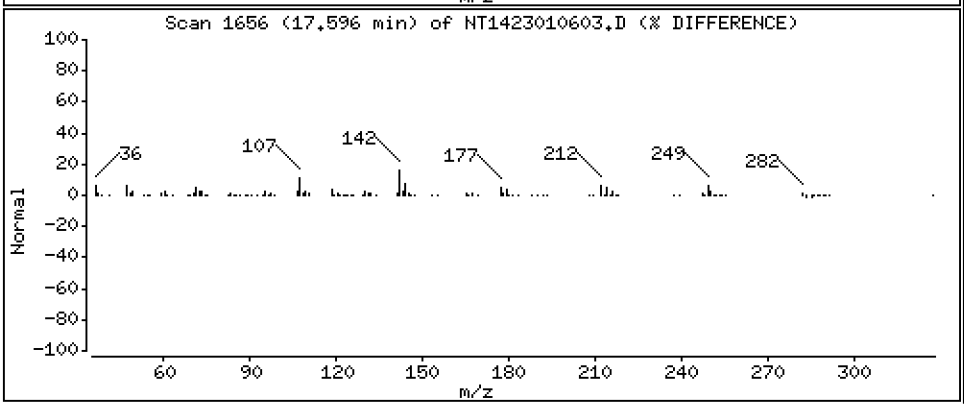












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

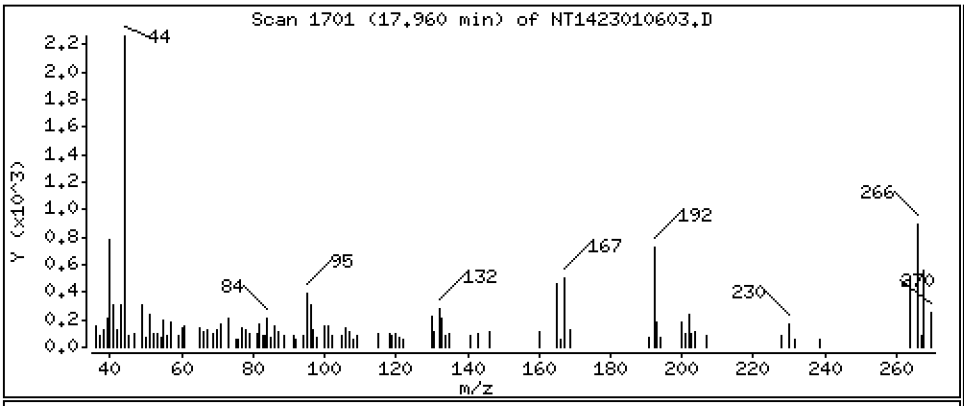
Operator: VTS

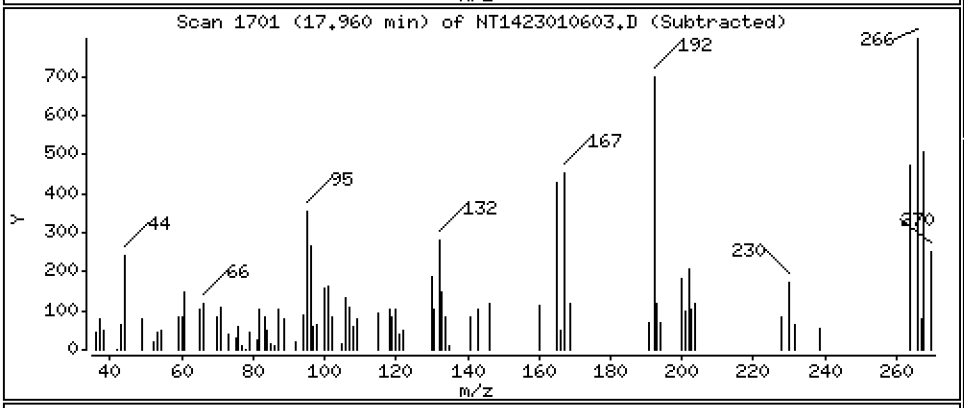
Column phase: ZB-5msi

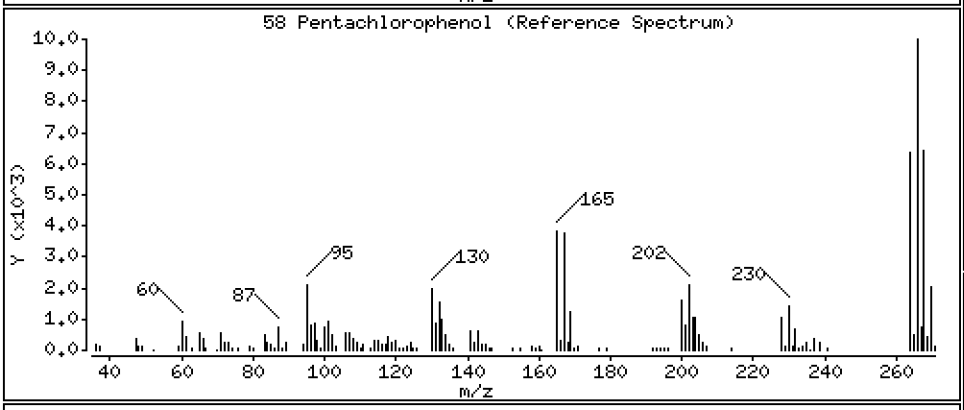
Column diameter: 0.25

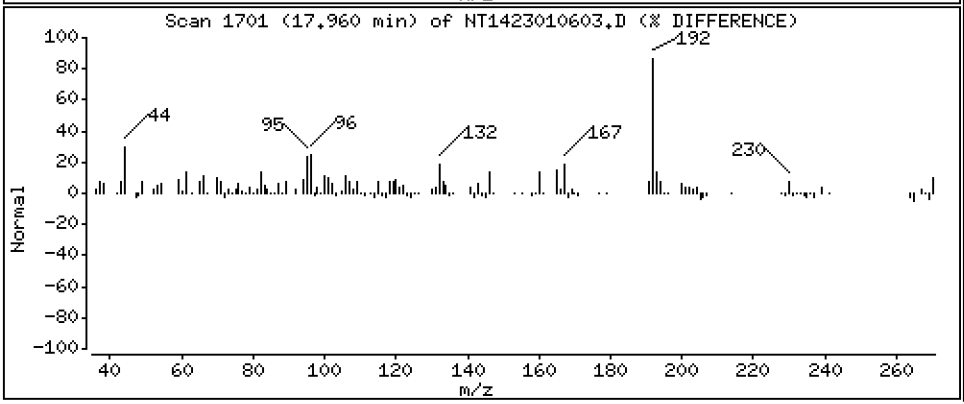
58 Pentachlorophenol

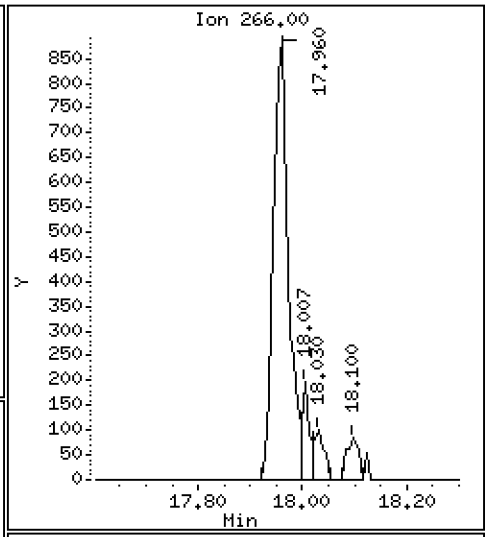
Concentration: 0.1118 ug/mL

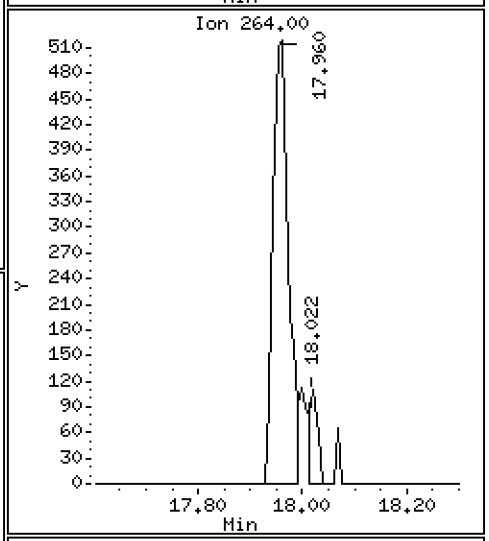


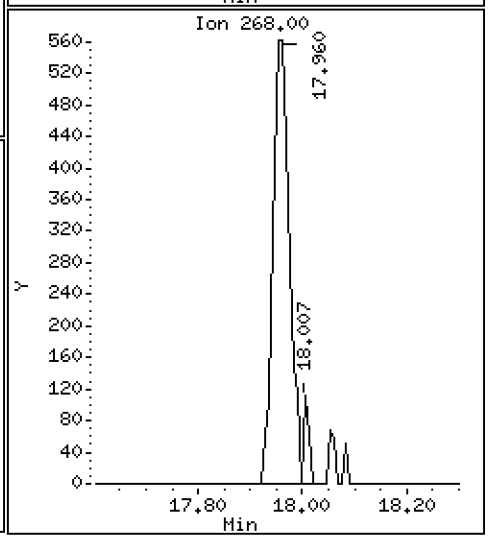












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

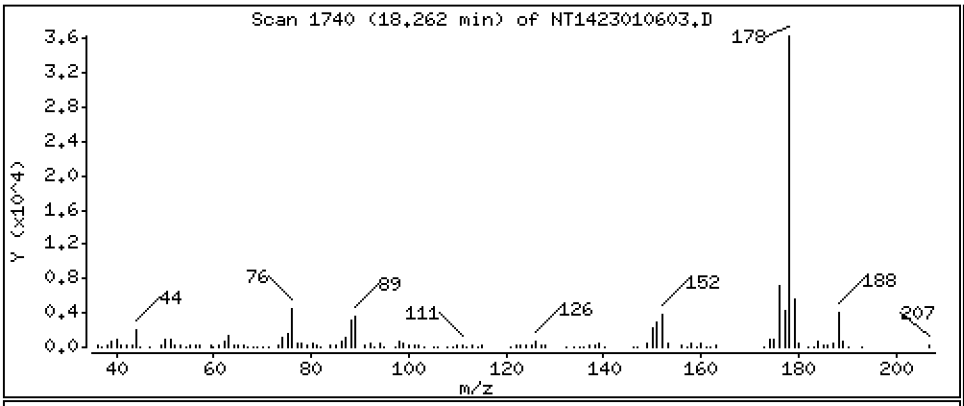
Operator: VTS

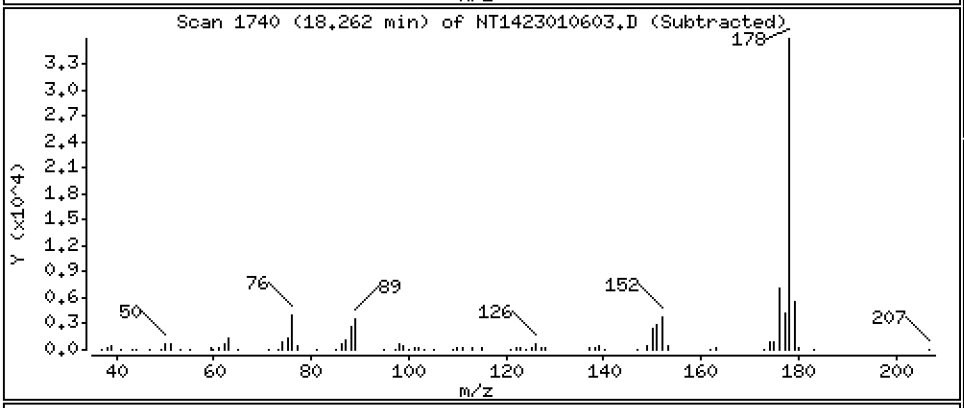
Column phase: ZB-5msi

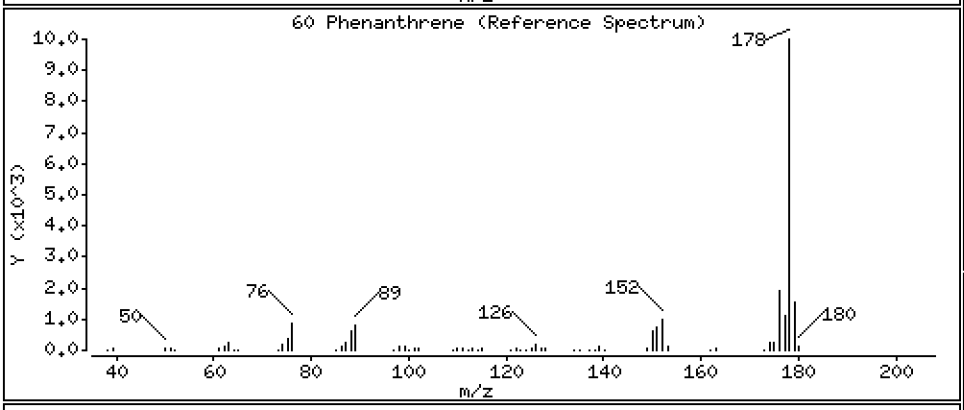
Column diameter: 0.25

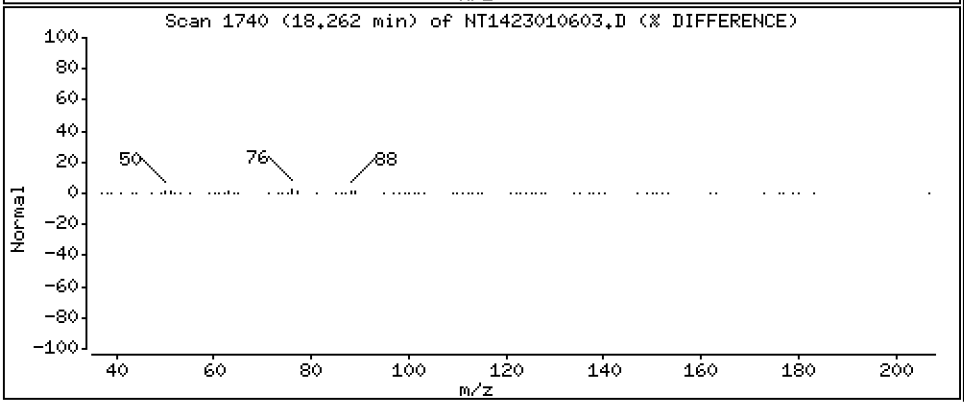
60 Phenanthrene

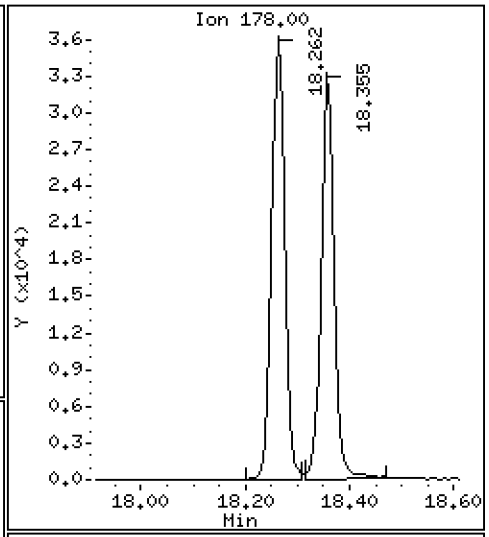
Concentration: 0.4581 ug/mL

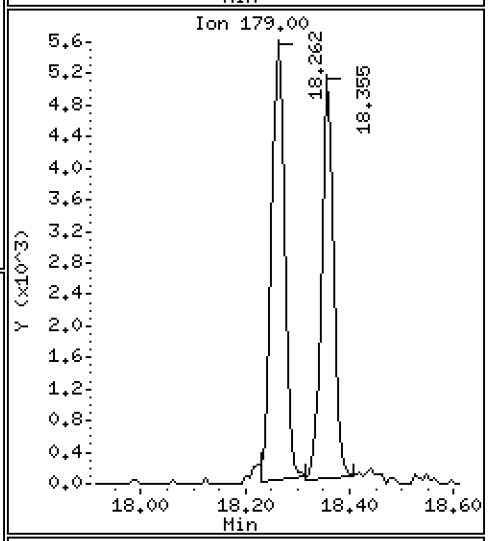


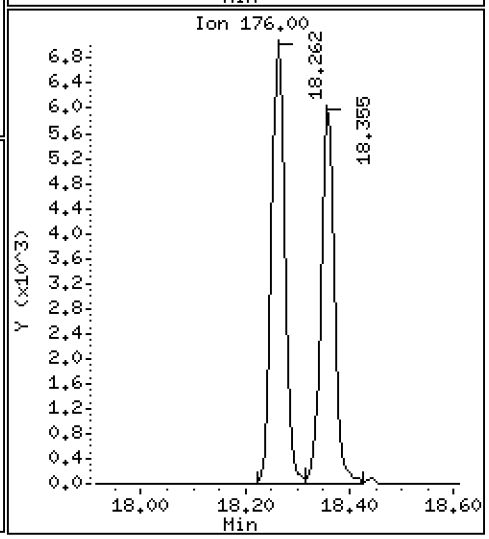












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

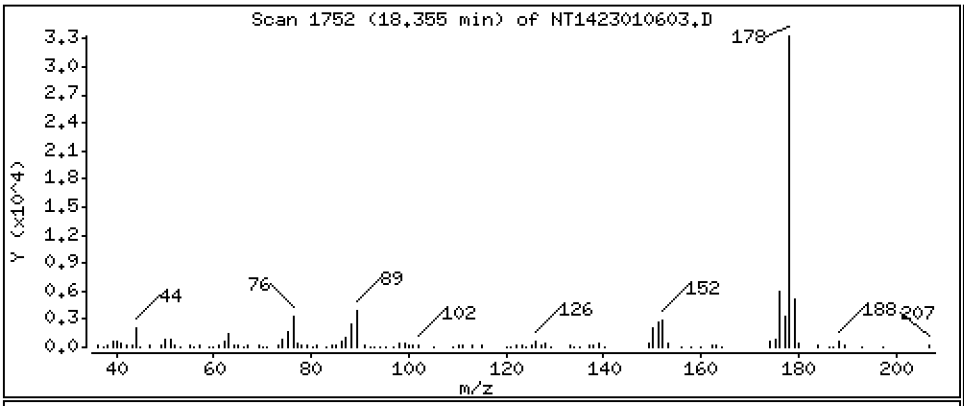
Operator: VTS

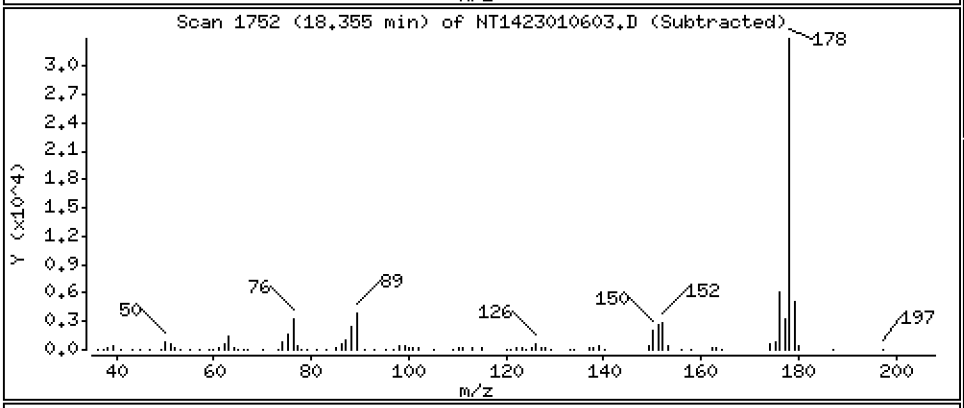
Column phase: ZB-5msi

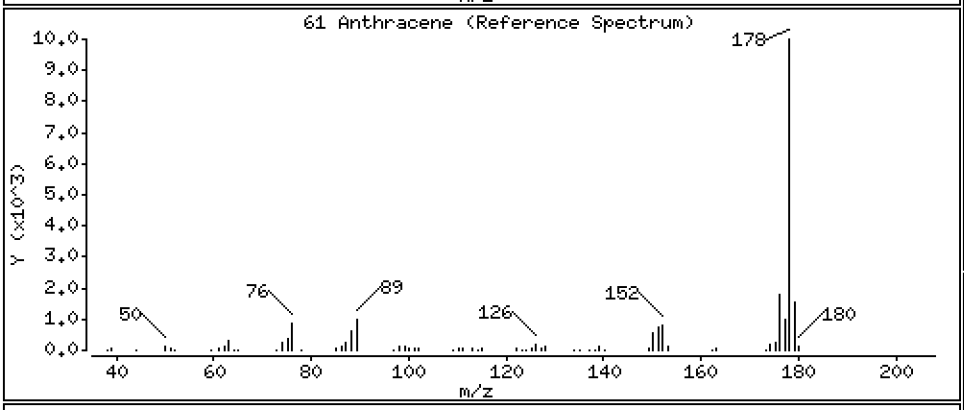
Column diameter: 0.25

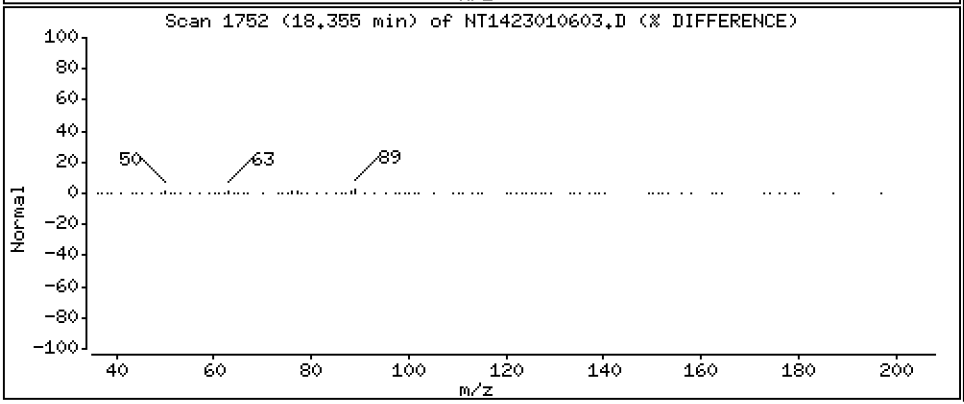
61 Anthracene

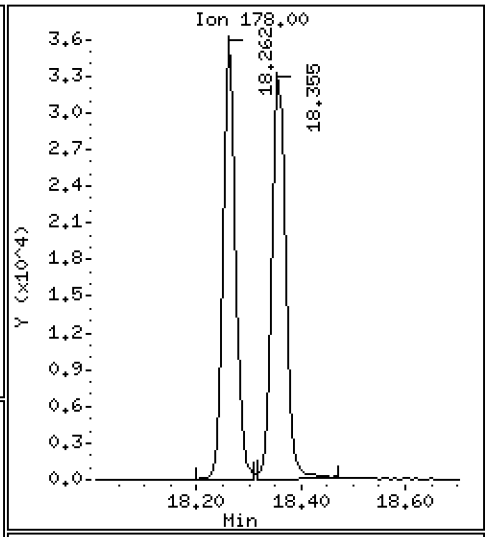
Concentration: 0.4594 ug/mL

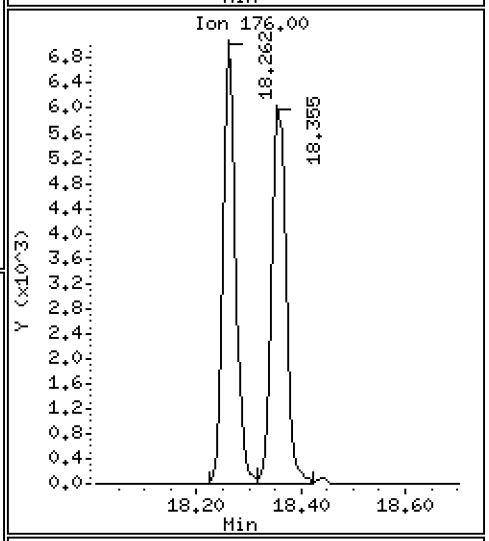


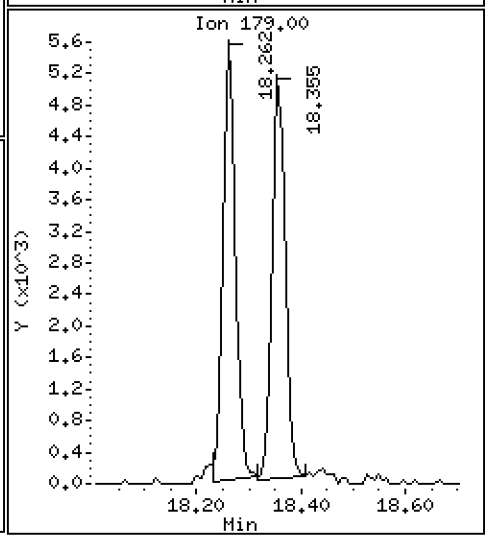












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

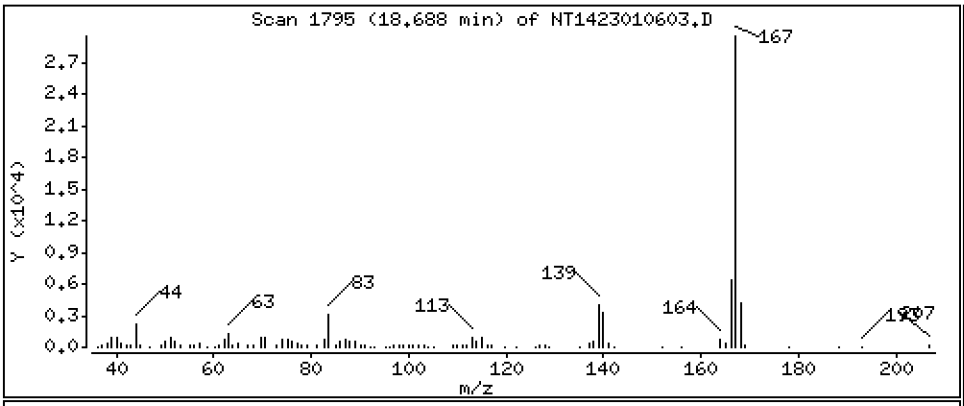
Operator: VTS

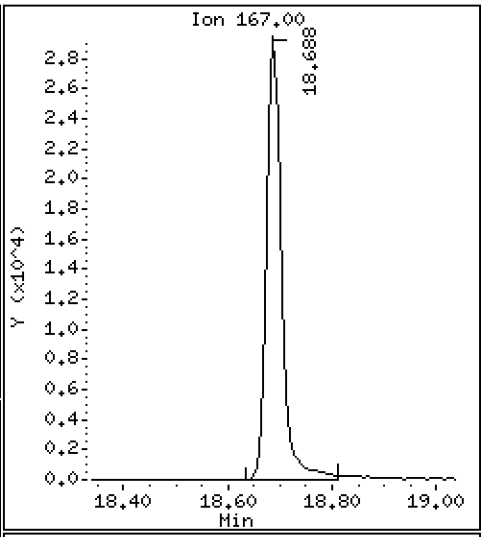
Column phase: ZB-5msi

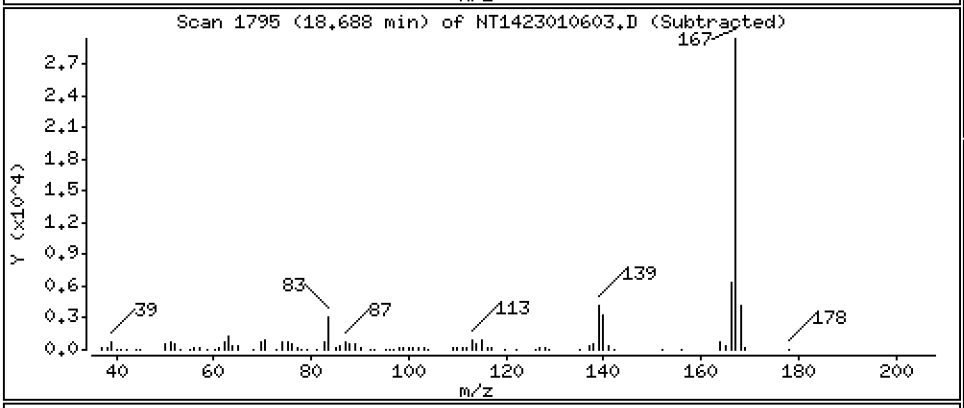
Column diameter: 0.25

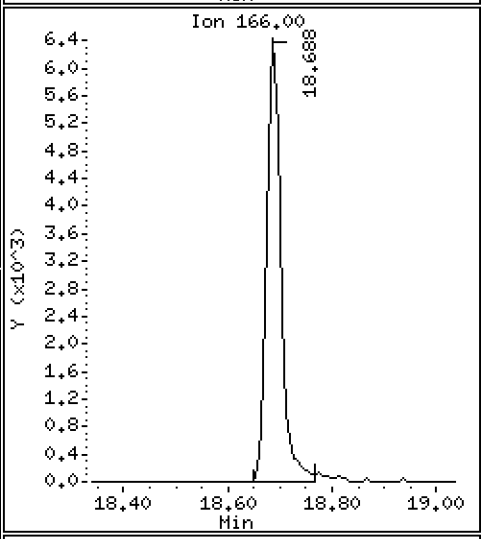
62 Carbazole

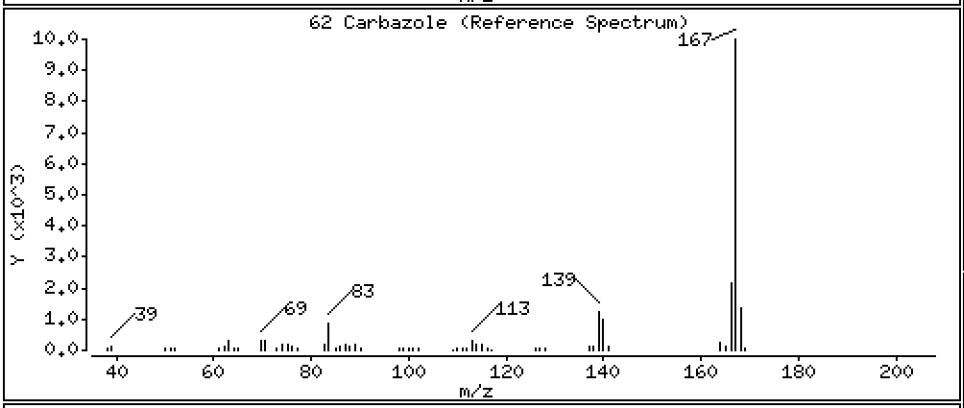
Concentration: 0.4620 ug/mL

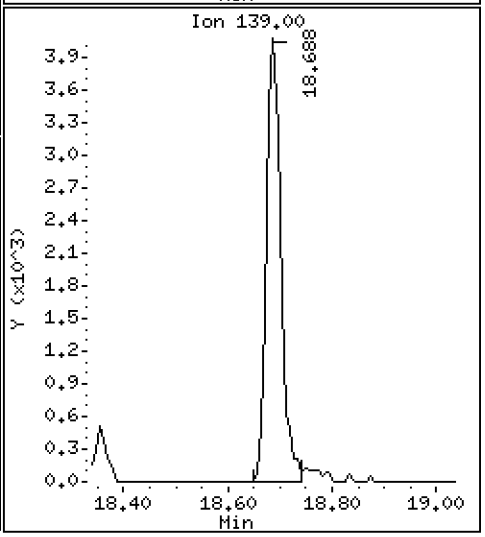


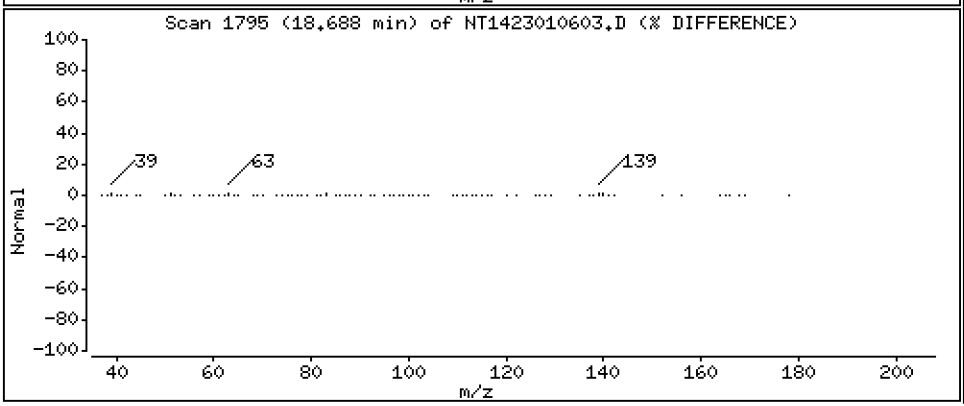












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

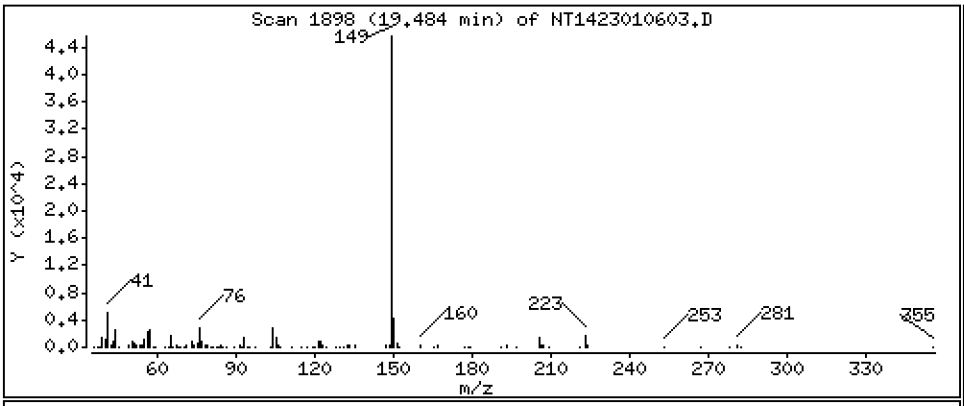
Operator: VTS

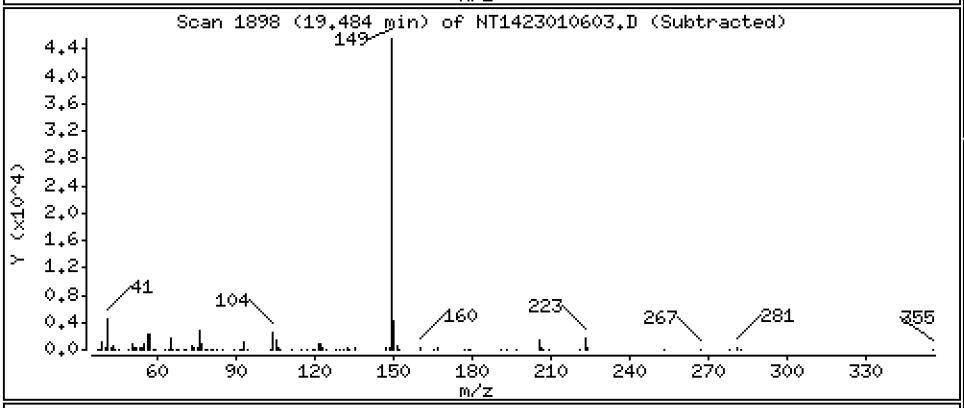
Column phase: ZB-5msi

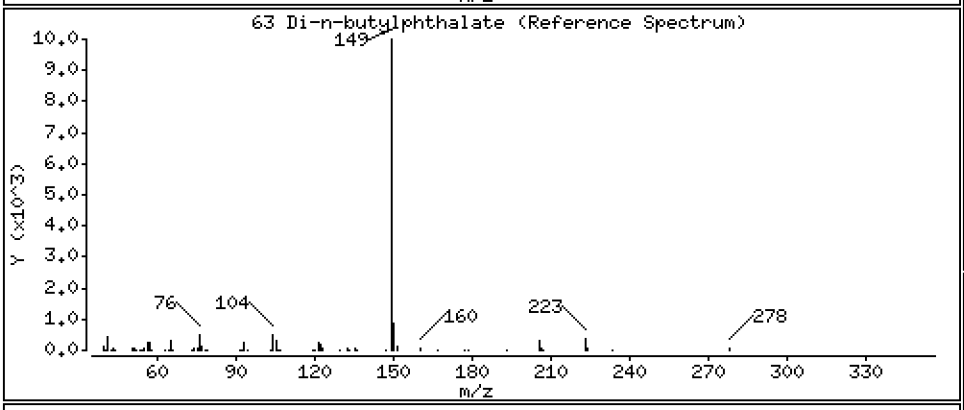
Column diameter: 0.25

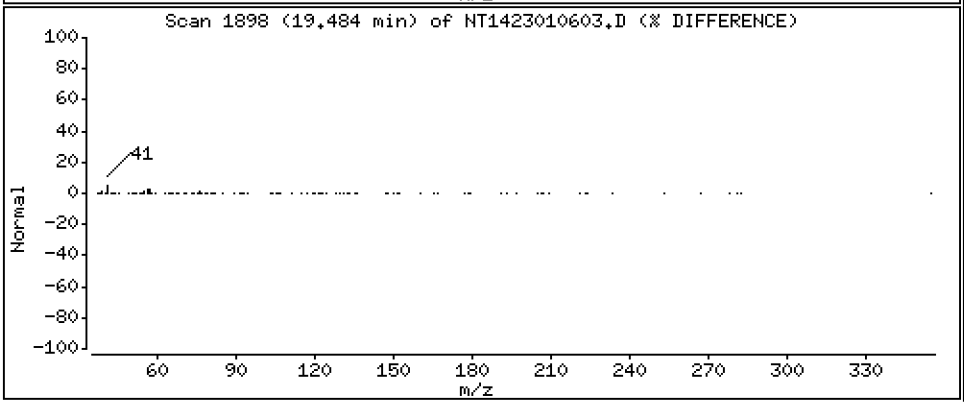
63 Di-n-butylphthalate

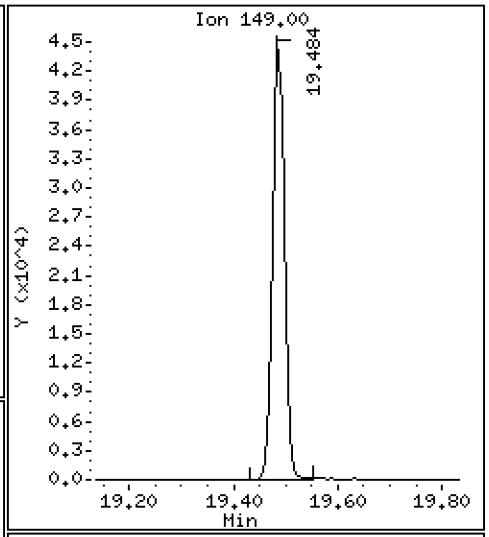
Concentration: 0.4795 ug/mL

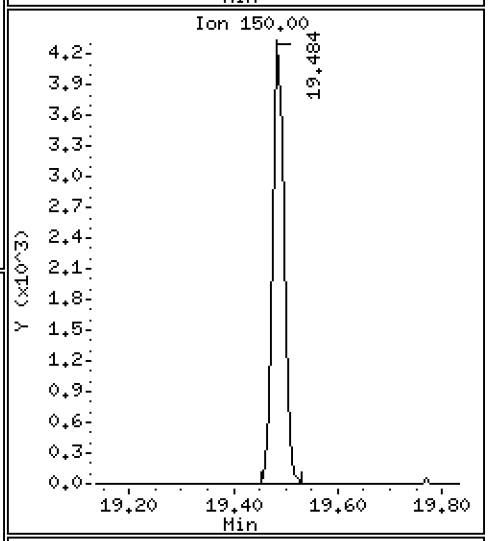


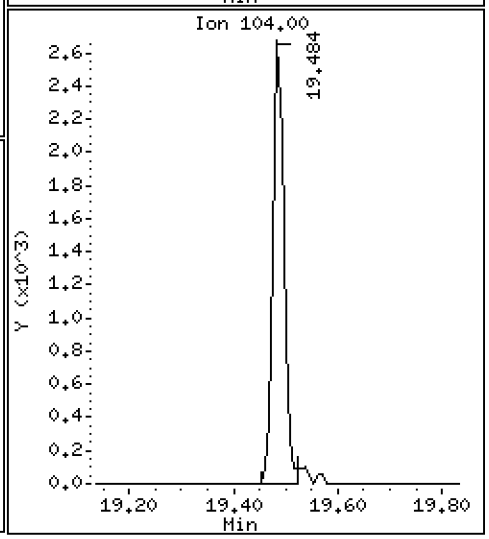












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

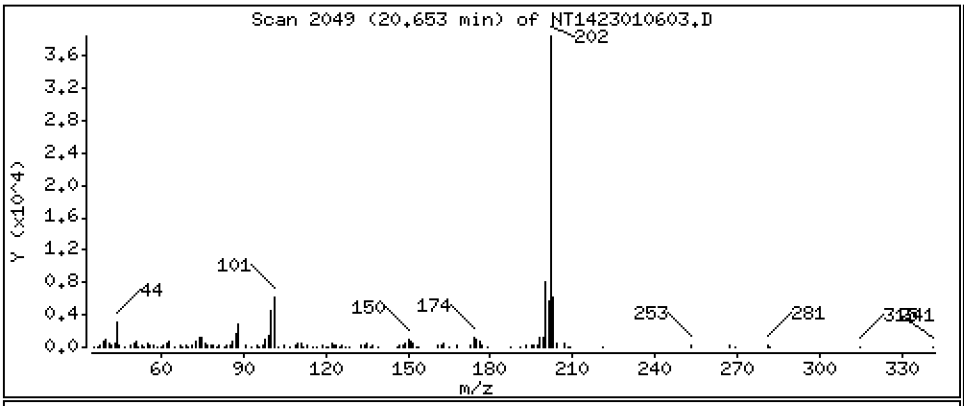
Operator: VTS

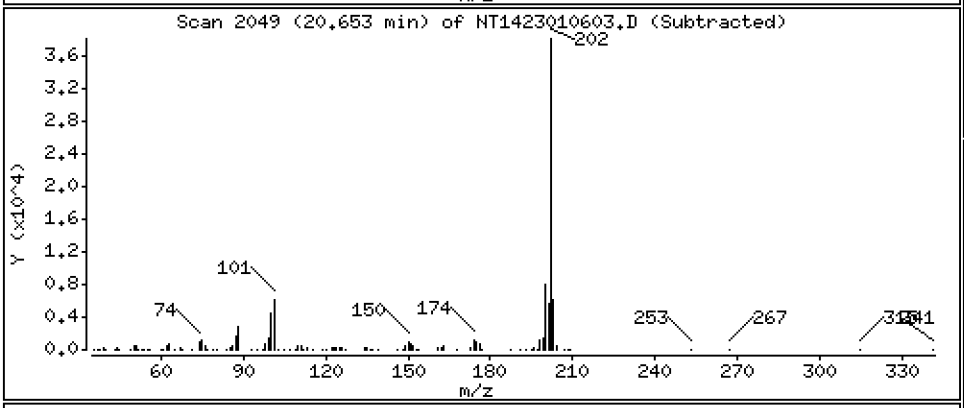
Column phase: ZB-5msi

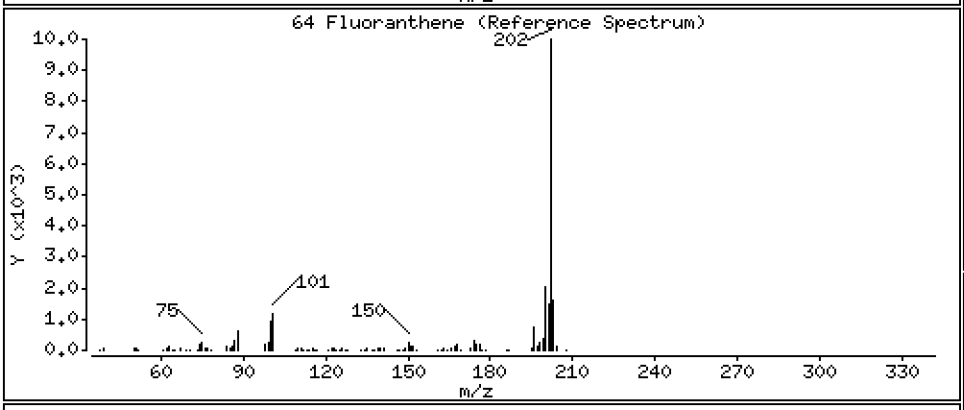
Column diameter: 0.25

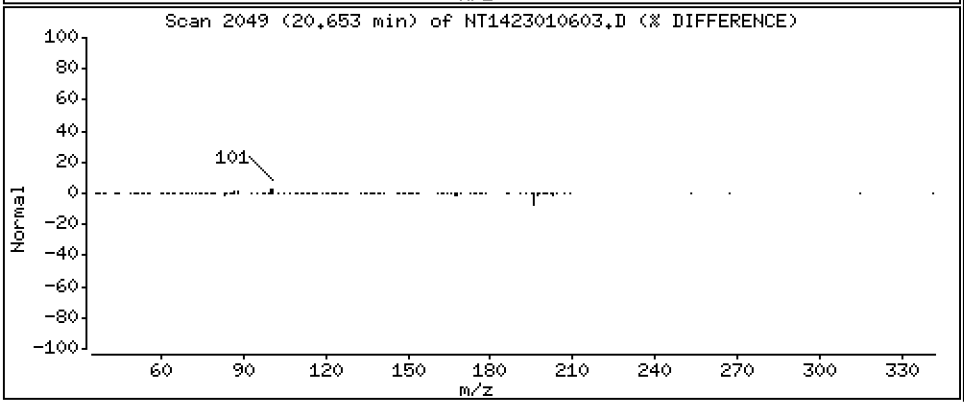
64 Fluoranthene

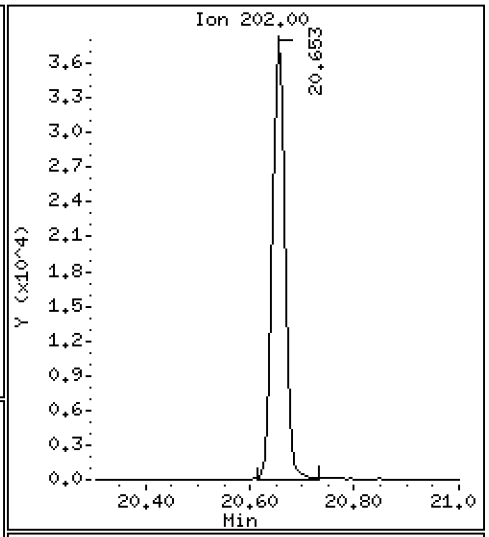
Concentration: 0.4865 ug/mL

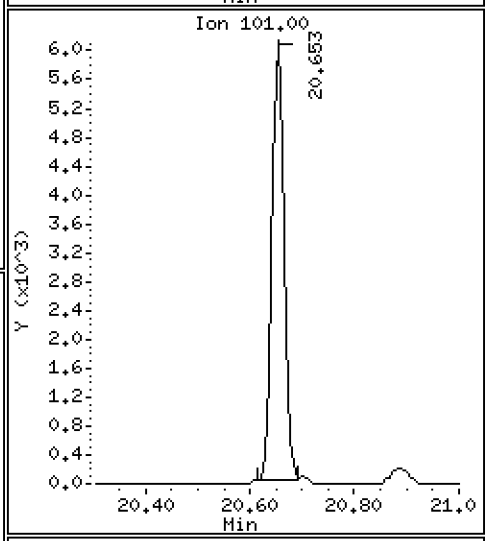


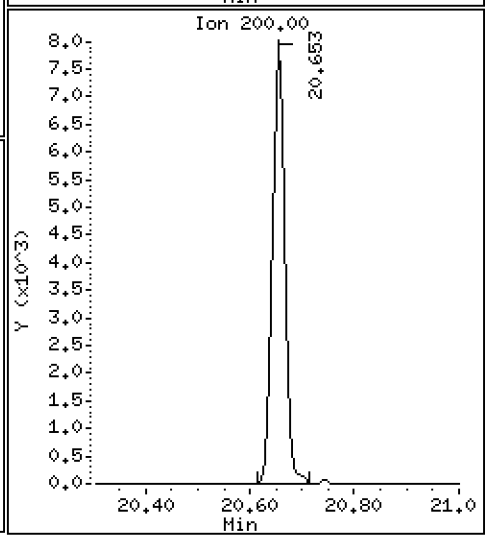












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

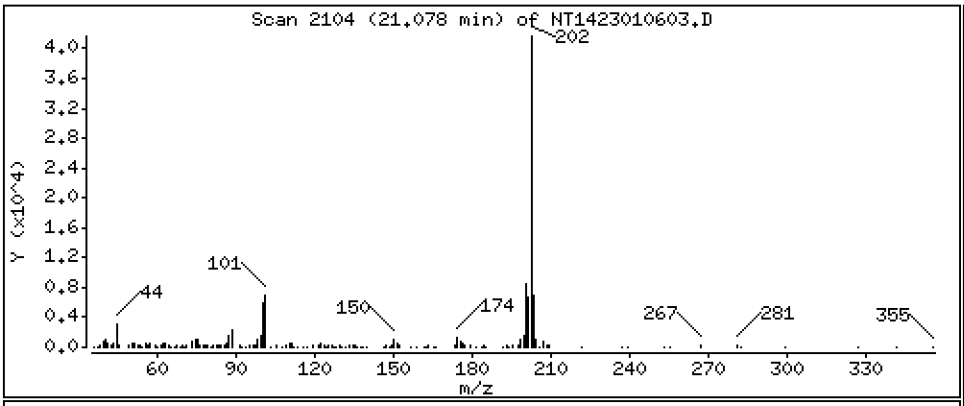
Operator: VTS

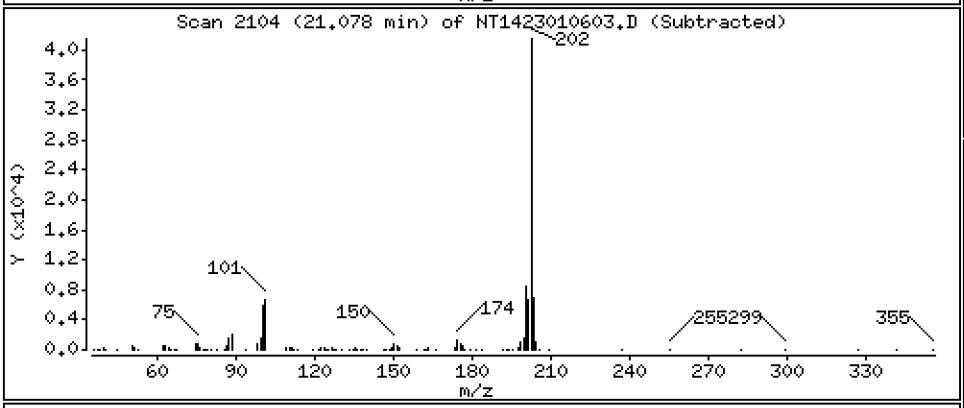
Column phase: ZB-5msi

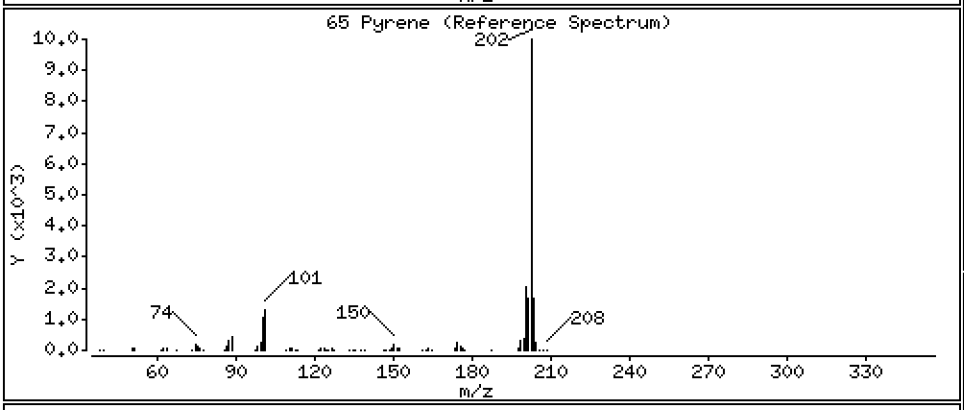
Column diameter: 0.25

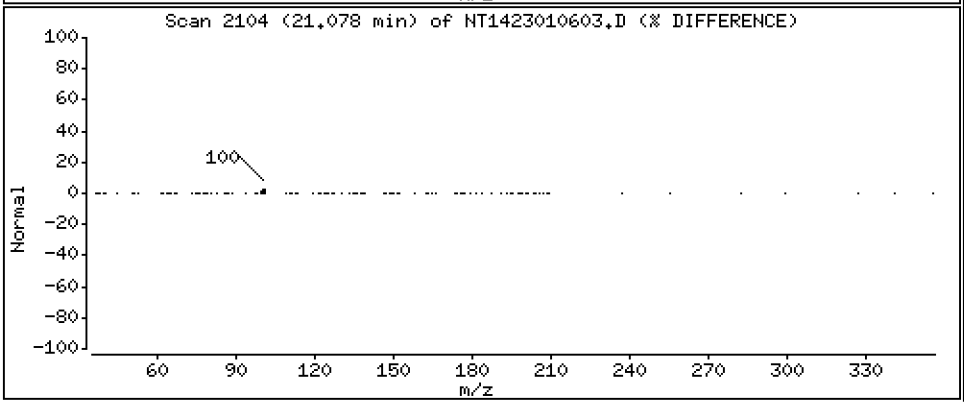
65 Pyrene

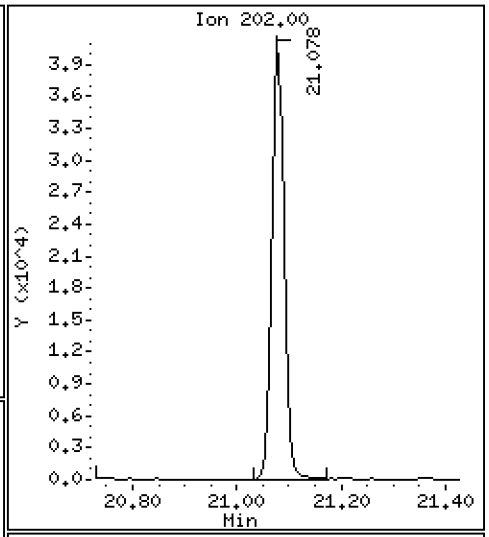
Concentration: 0.4855 ug/mL

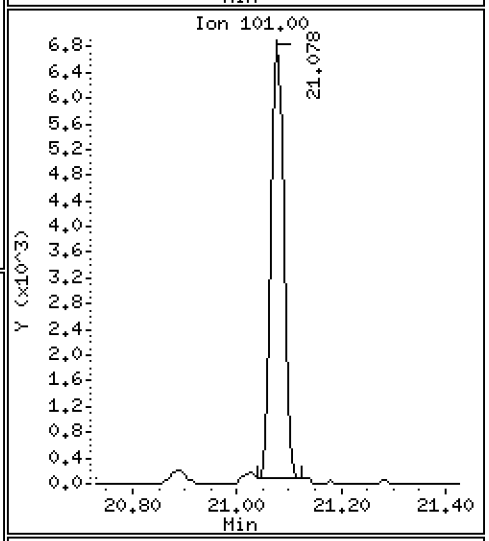


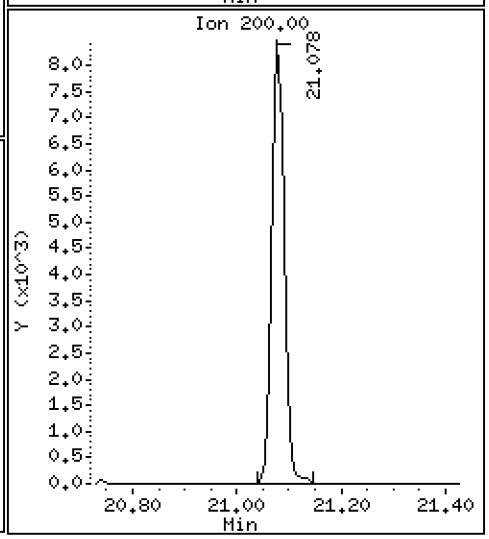












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

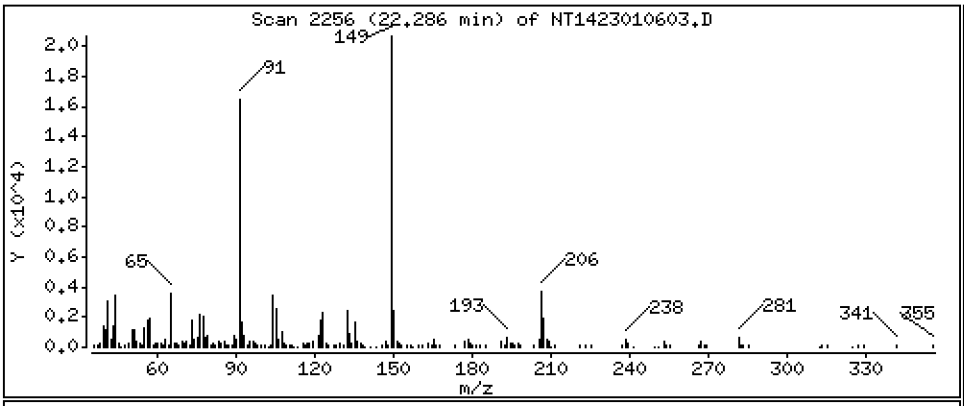
Operator: VTS

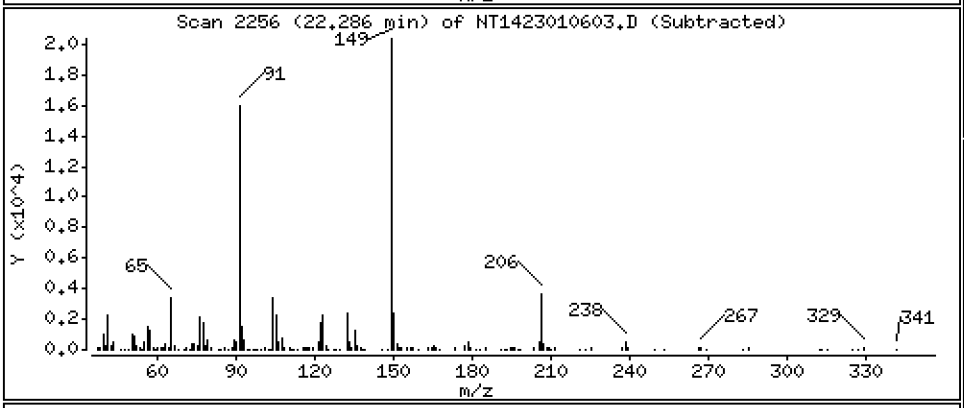
Column phase: ZB-5msi

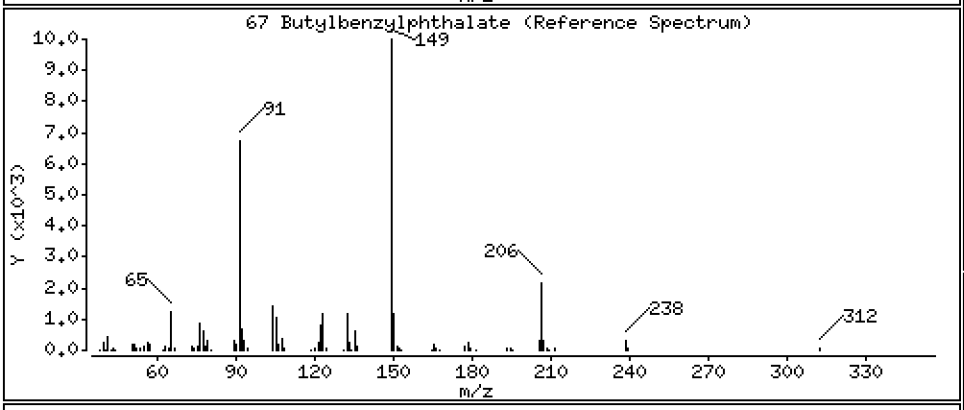
Column diameter: 0.25

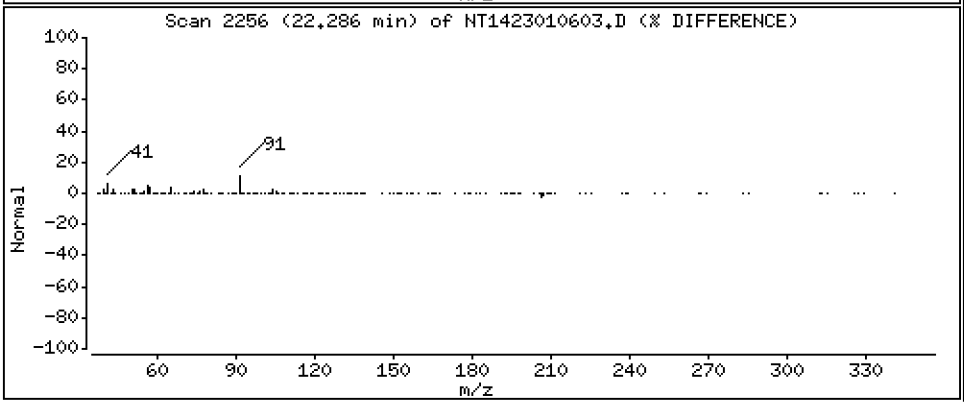
67 Butylbenzylphthalate

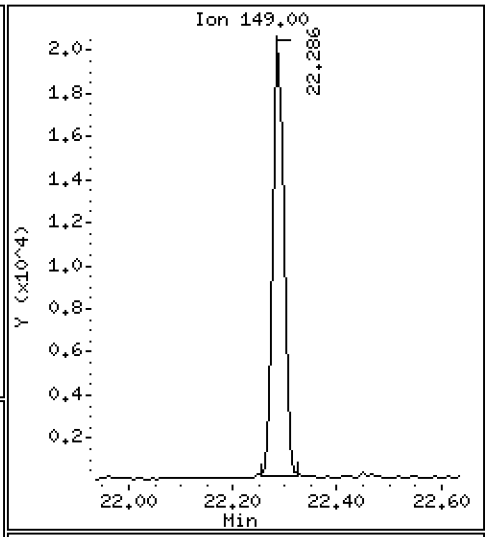
Concentration: 0.5646 ug/mL

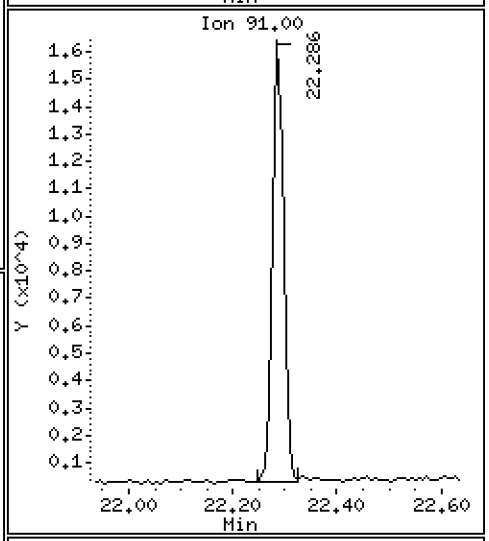


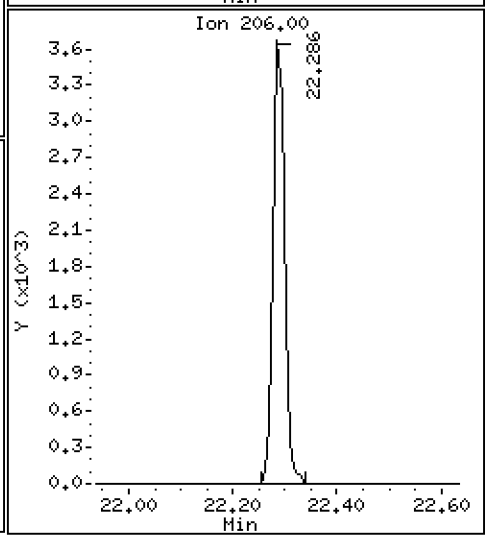












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

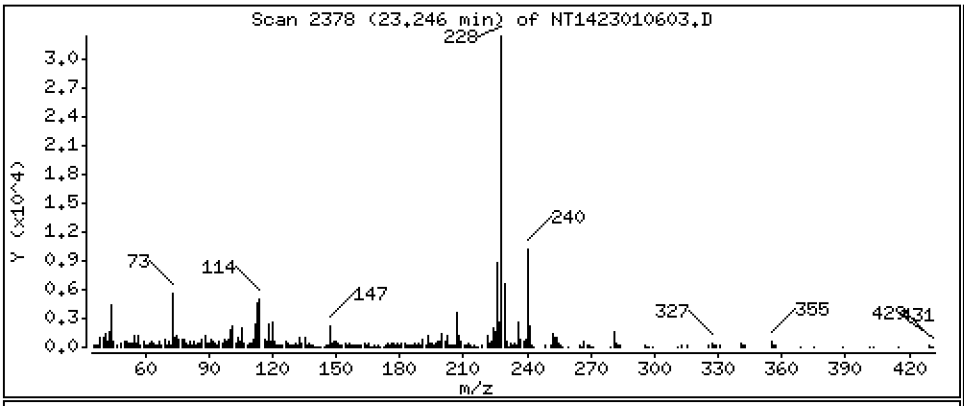
Operator: VTS

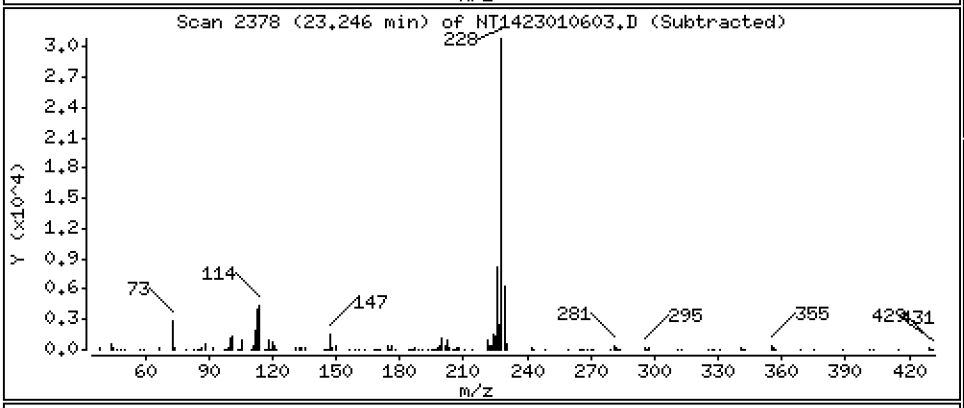
Column phase: ZB-5msi

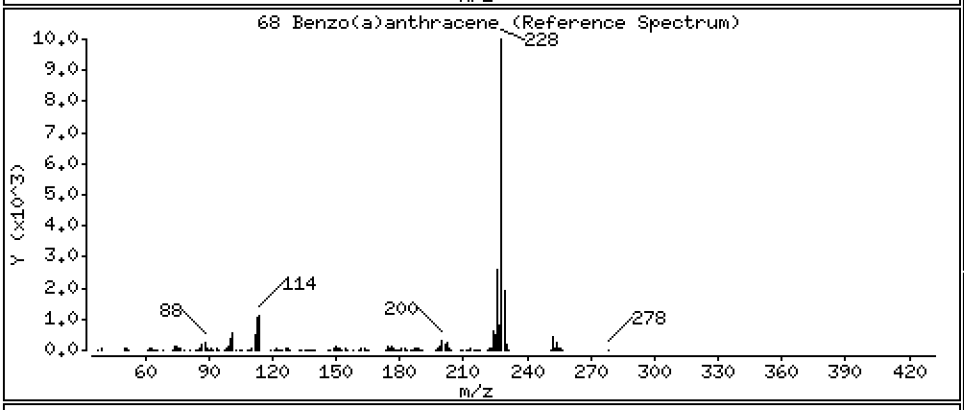
Column diameter: 0.25

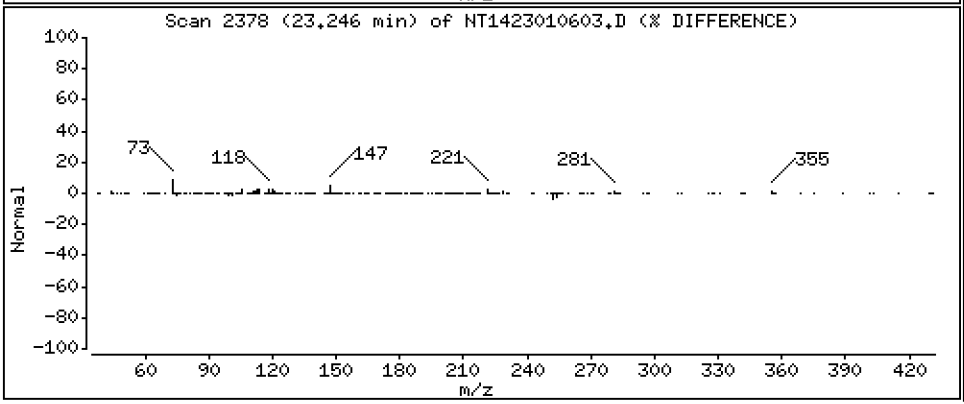
68 Benzo(a)anthracene

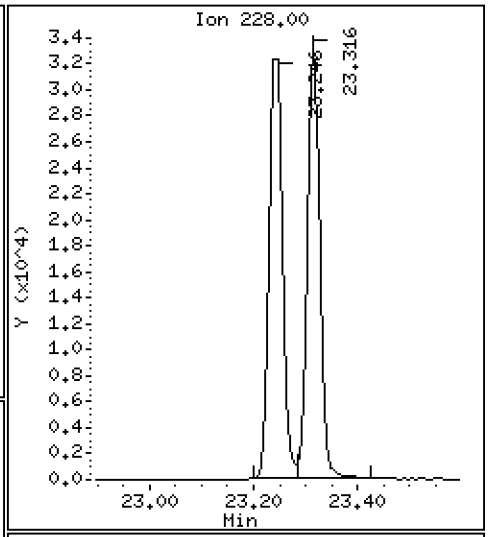
Concentration: 0.4668 ug/mL

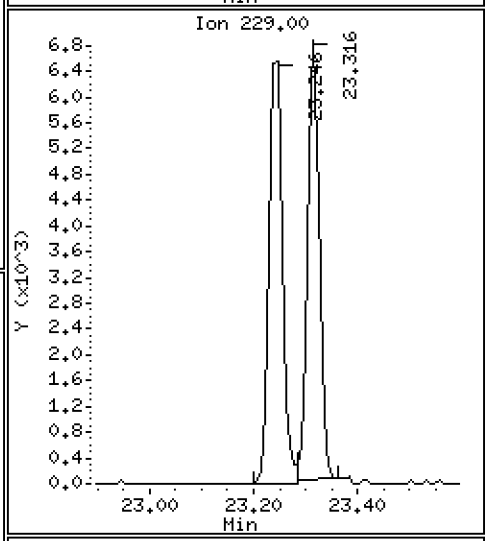


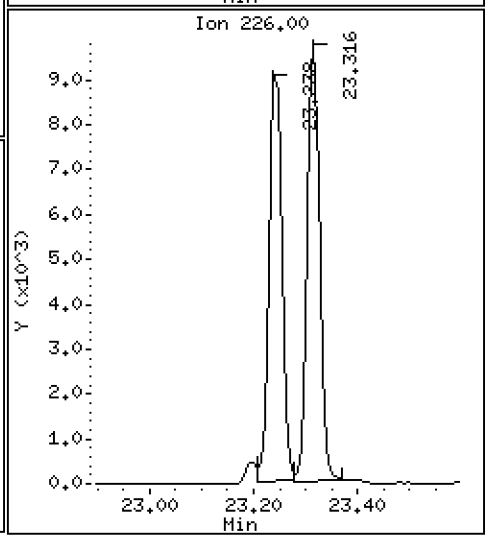












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

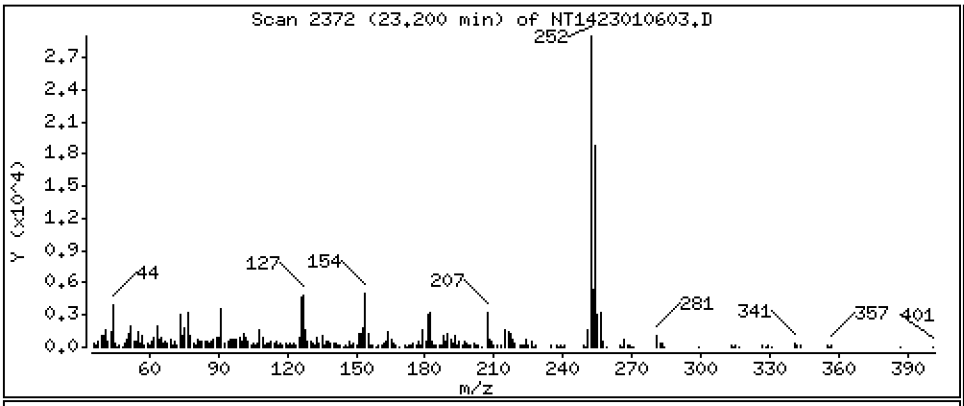
Operator: VTS

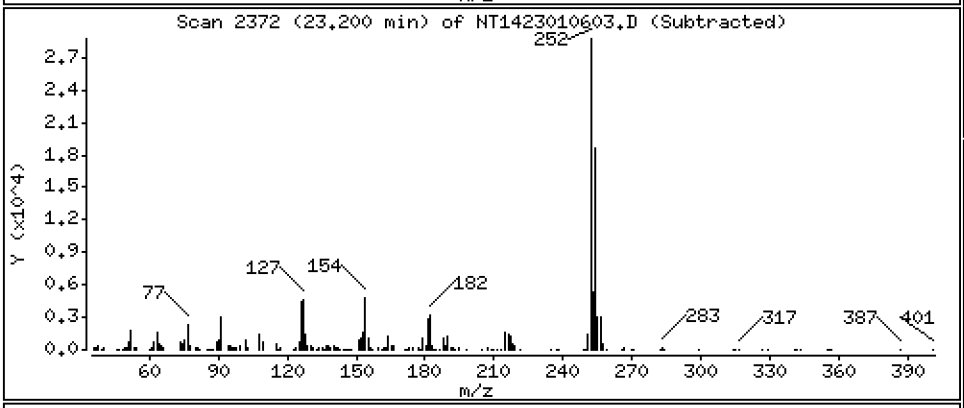
Column phase: ZB-5msi

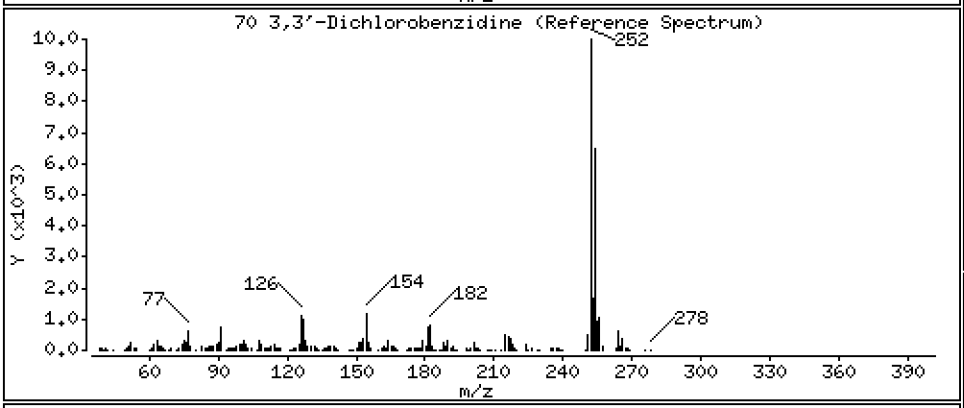
Column diameter: 0.25

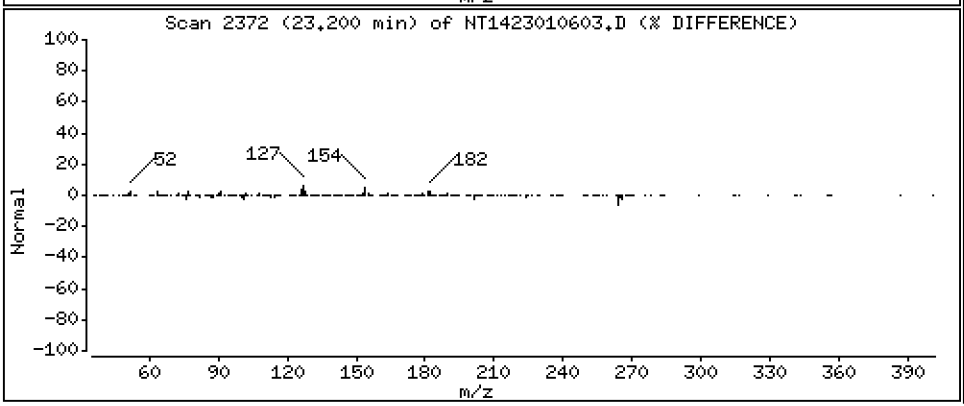
70 3,3'-Dichlorobenzidine

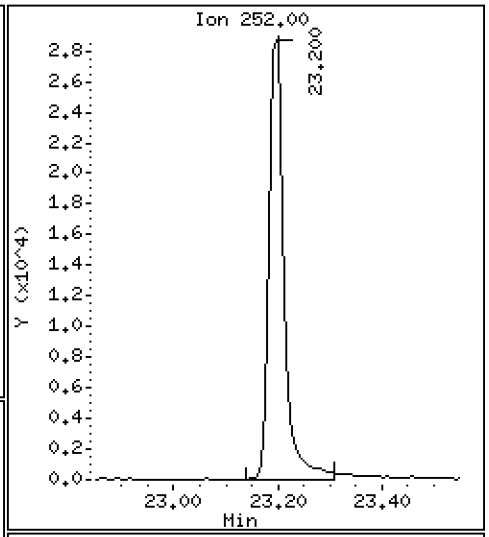
Concentration: 1.548 ug/mL

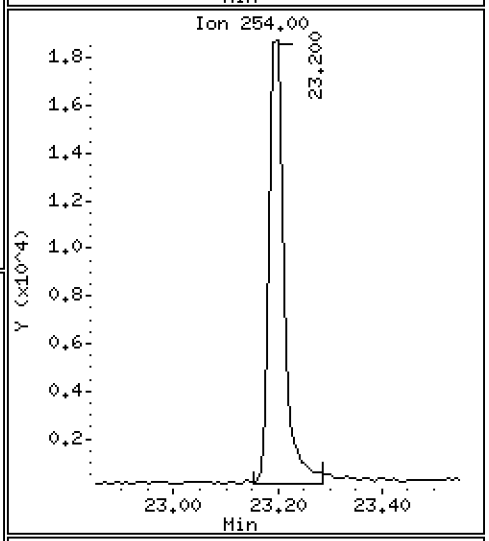


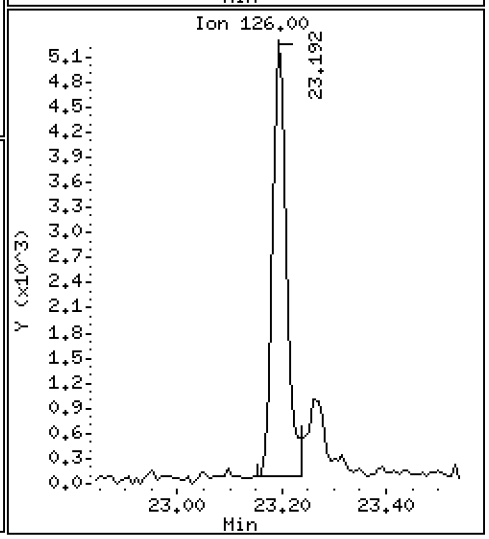












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

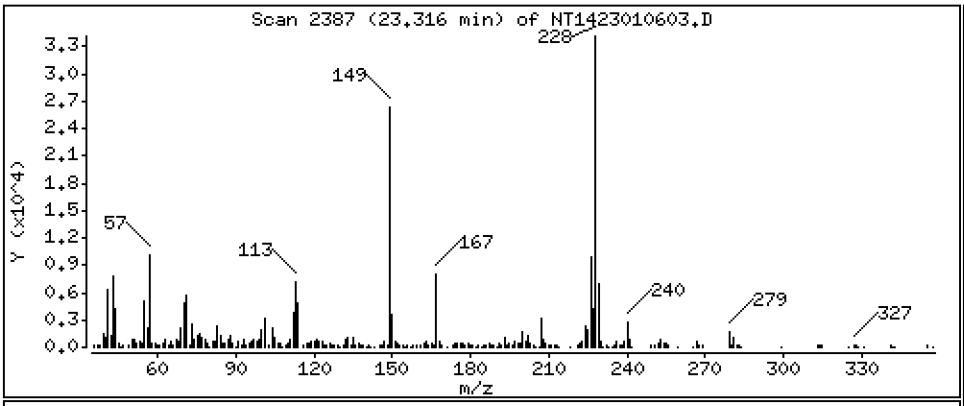
Operator: VTS

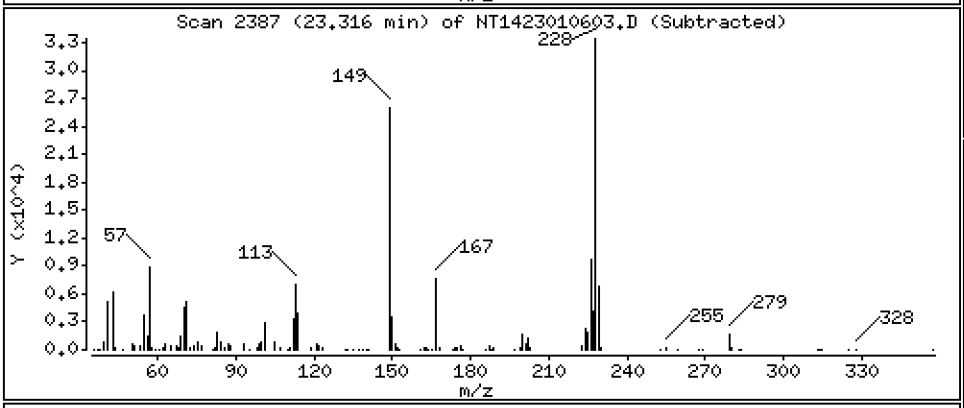
Column phase: ZB-5msi

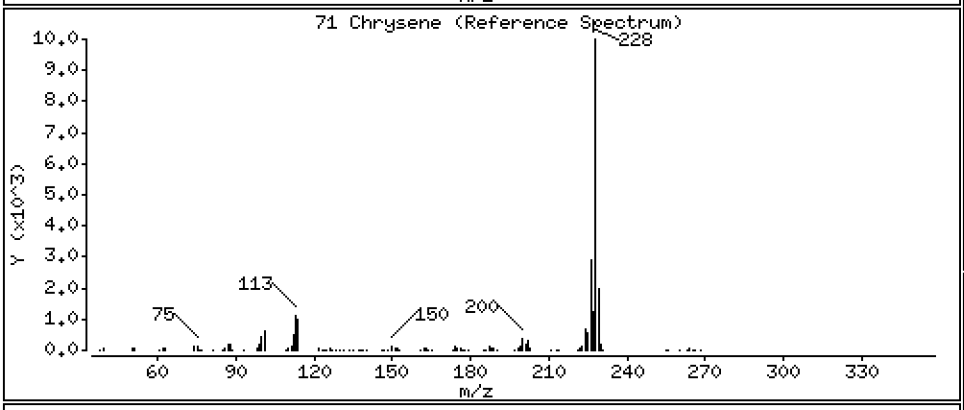
Column diameter: 0.25

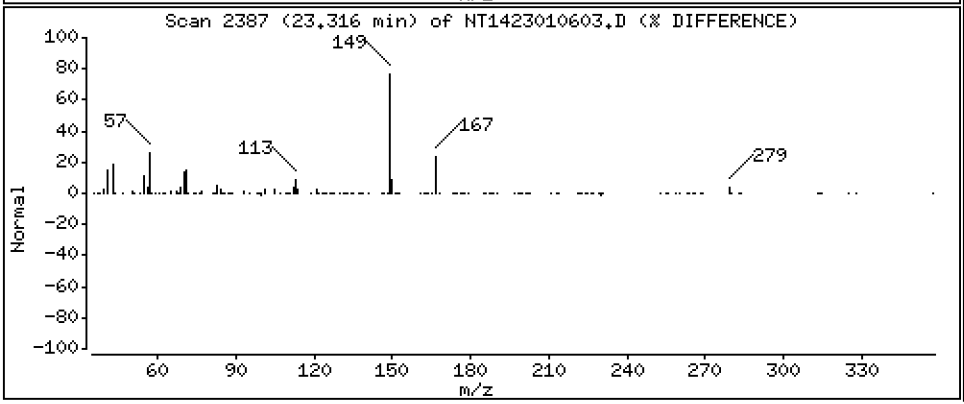
71 Chrysene

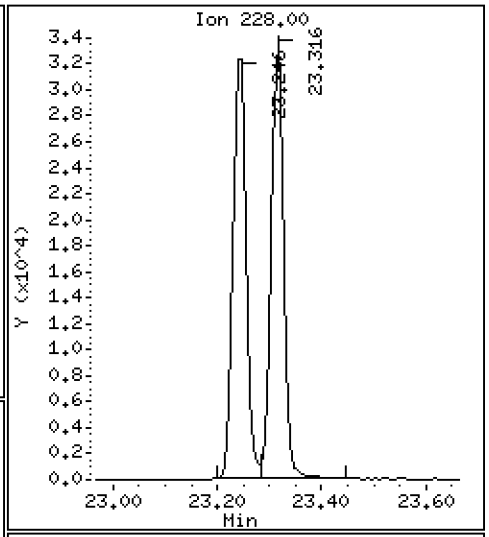
Concentration: 0.4683 ug/mL

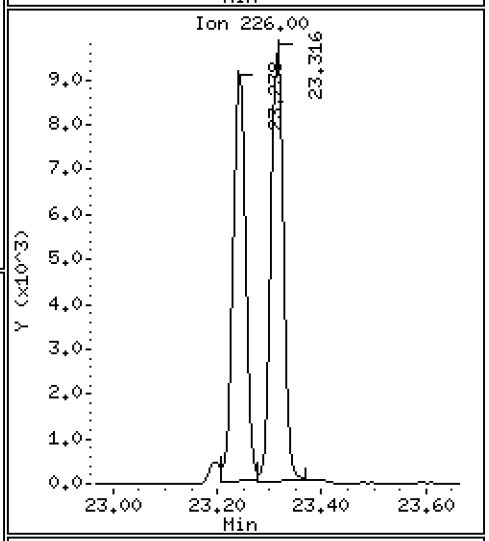


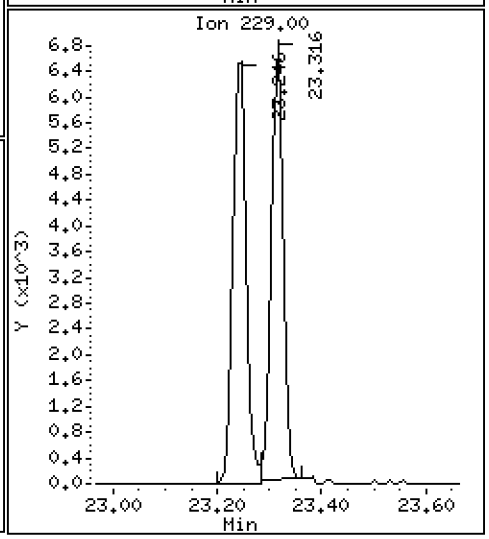












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

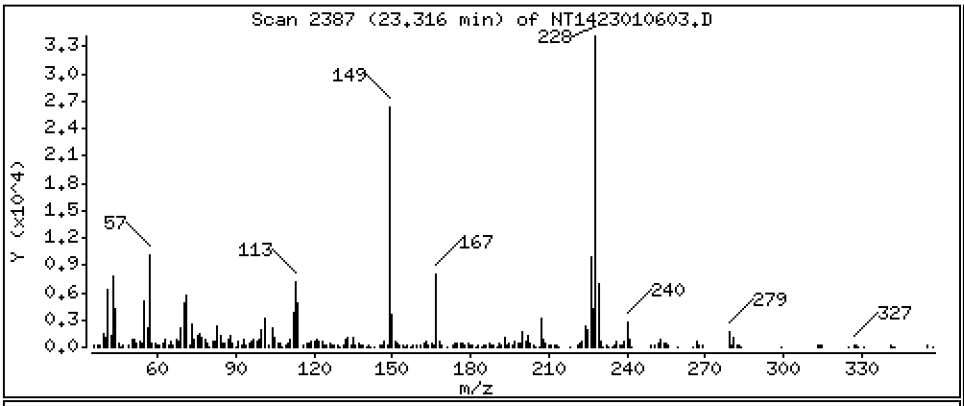
Operator: VTS

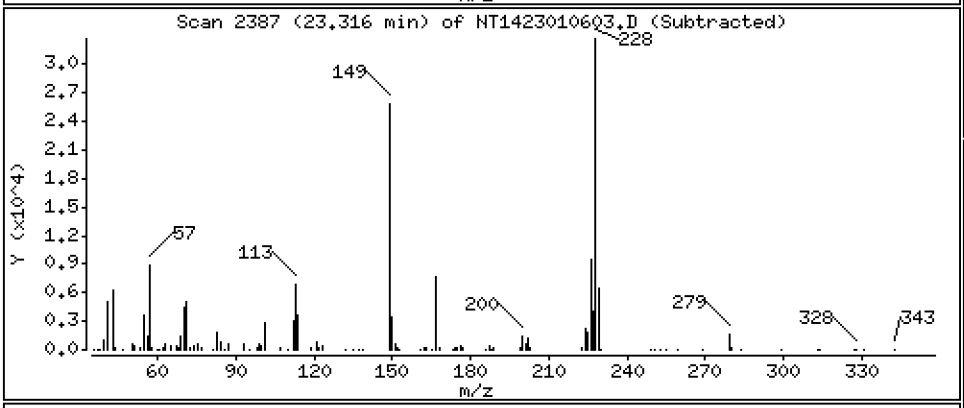
Column phase: ZB-5msi

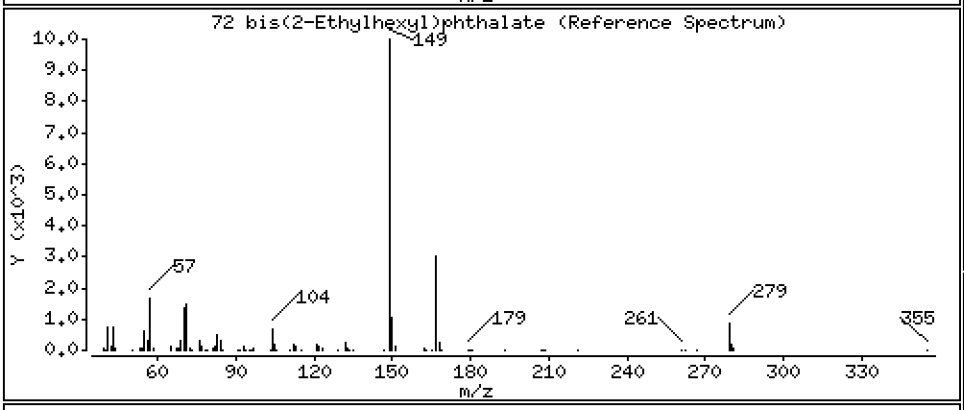
Column diameter: 0.25

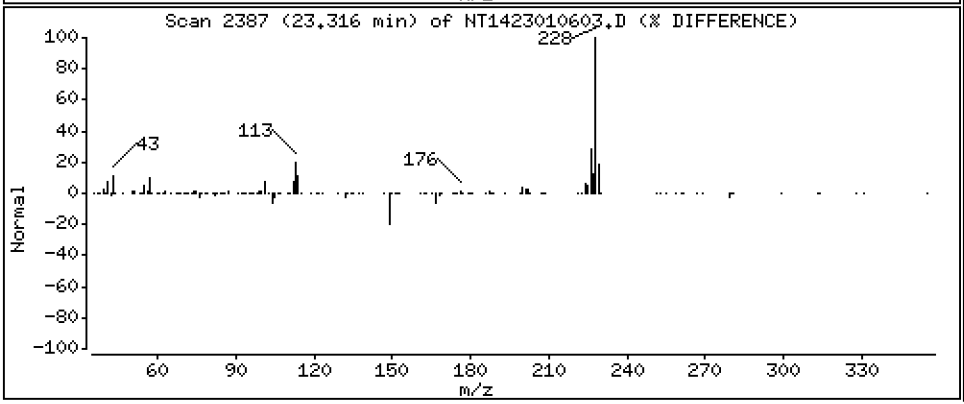
72 bis(2-Ethylhexyl)phthalate

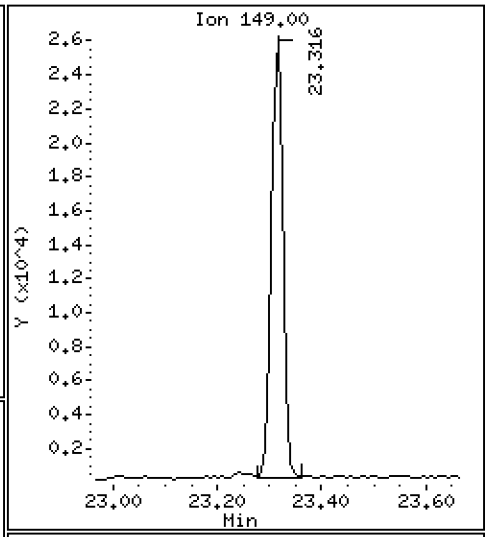
Concentration: 0.4833 ug/mL

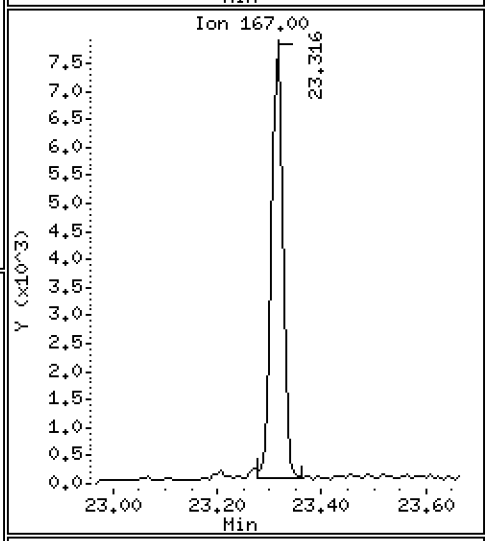


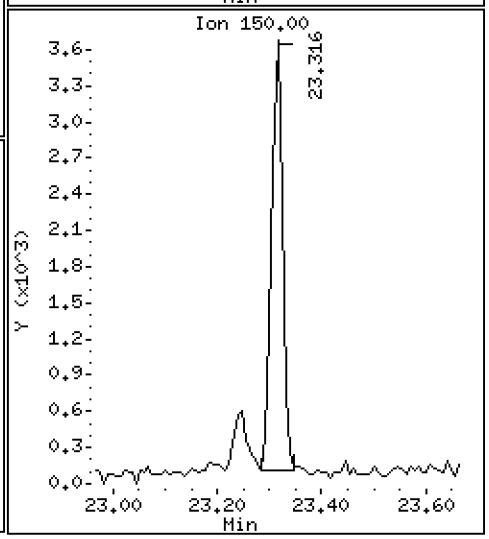












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

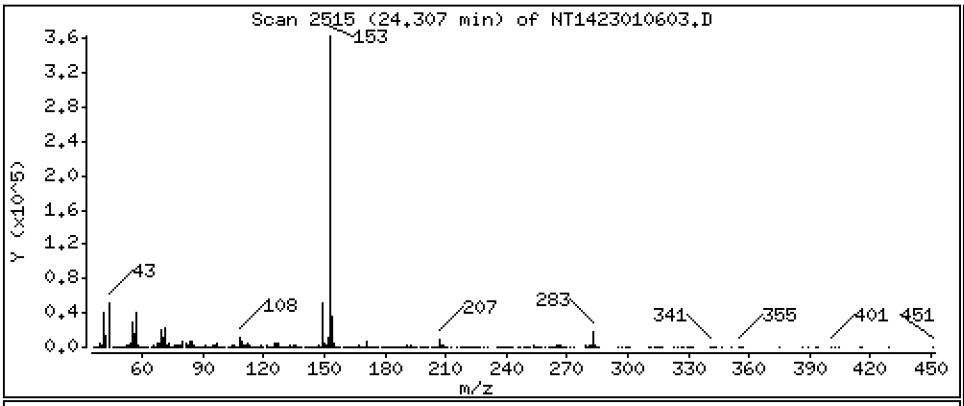
Operator: VTS

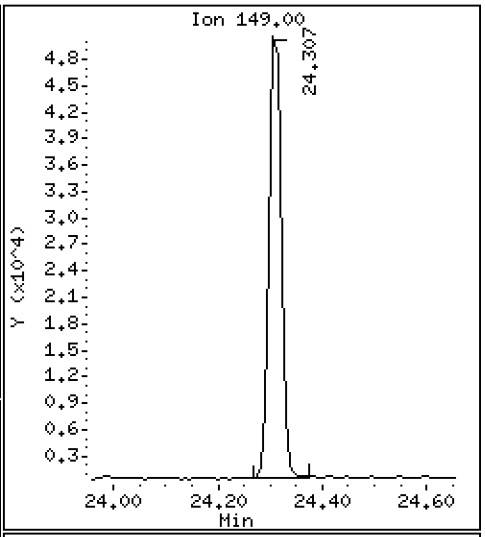
Column phase: ZB-5msi

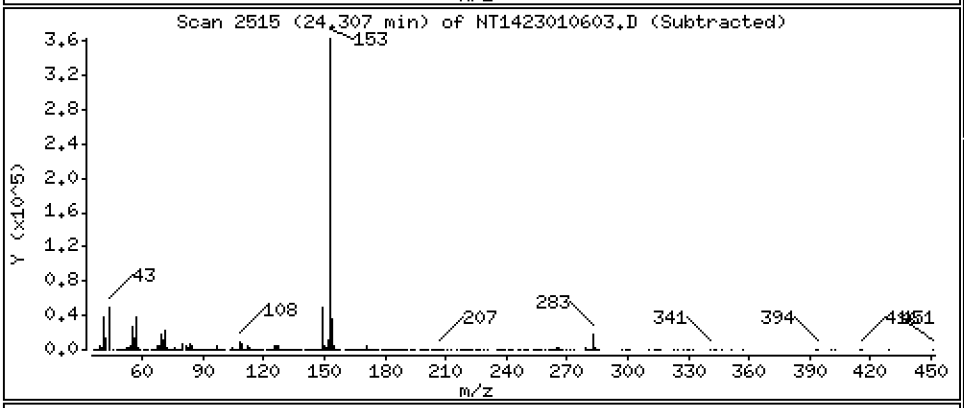
Column diameter: 0.25

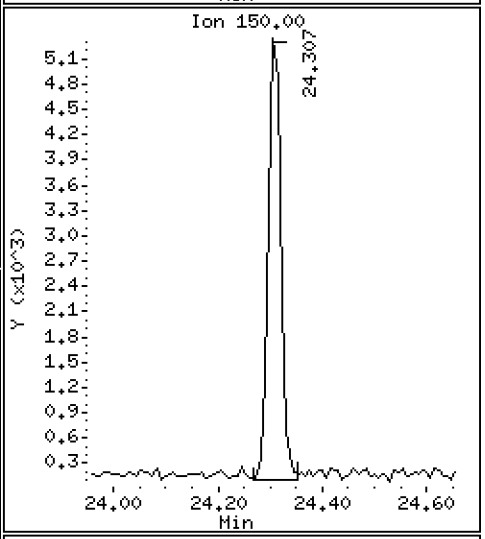
73 Di-n-octylphthalate

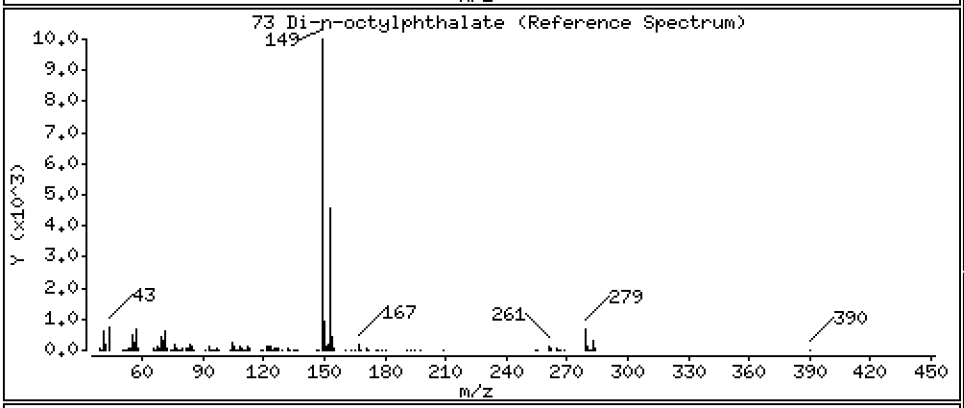
Concentration: 0.4652 ug/mL

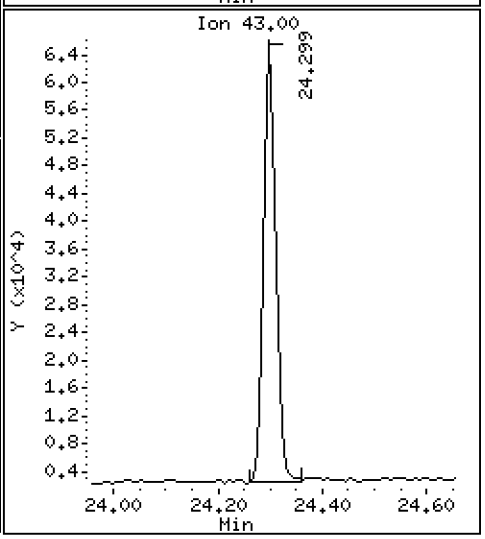


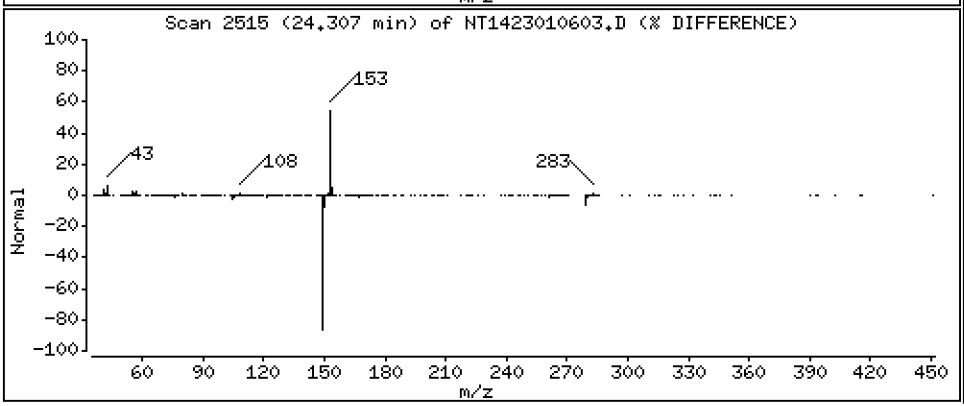












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

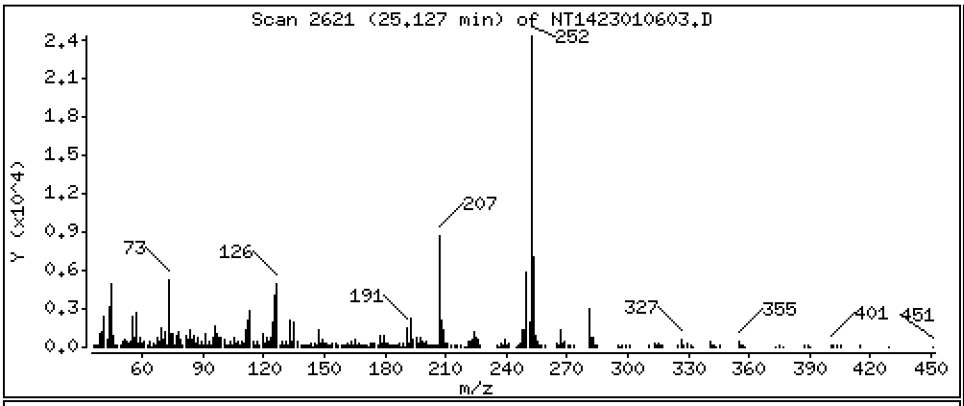
Operator: VTS

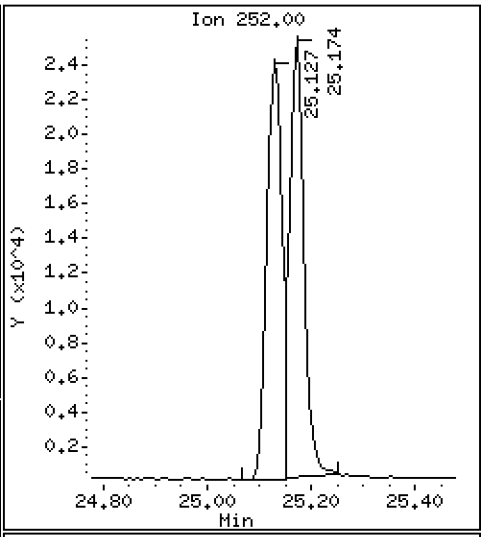
Column phase: ZB-5msi

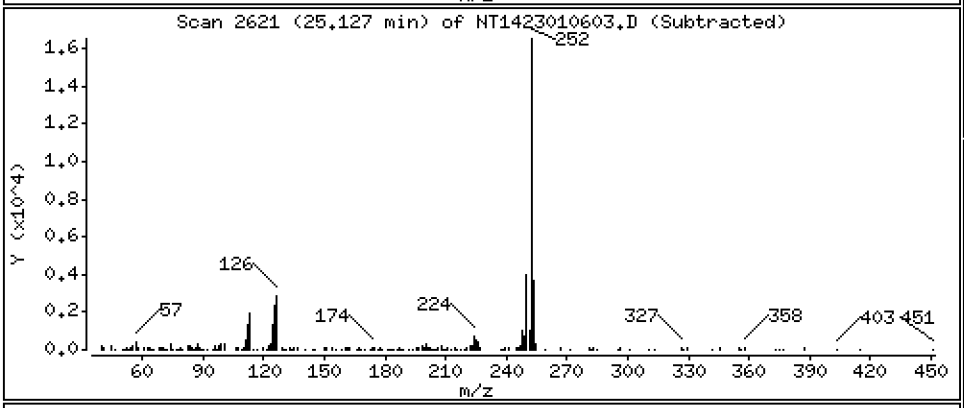
Column diameter: 0.25

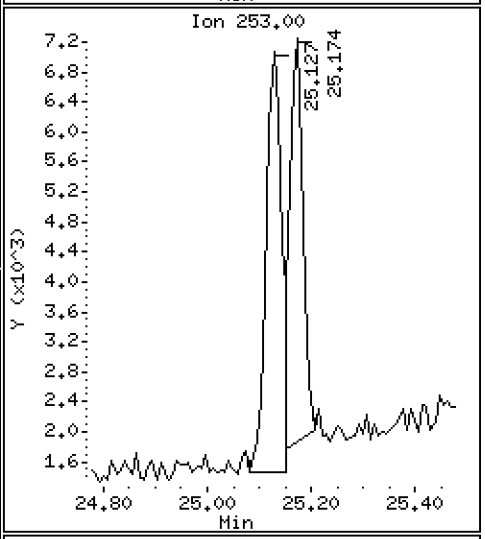
74 Benzo(b)fluoranthene

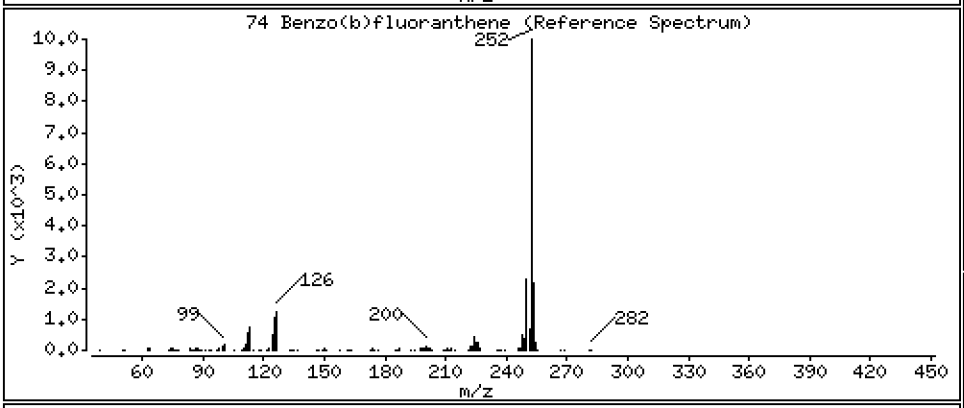
Concentration: 0.4316 ug/mL

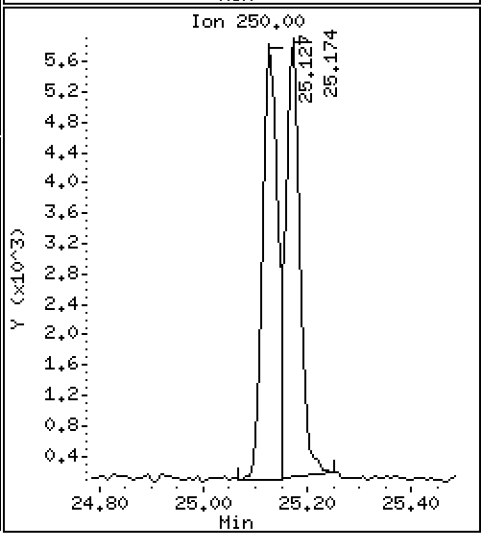


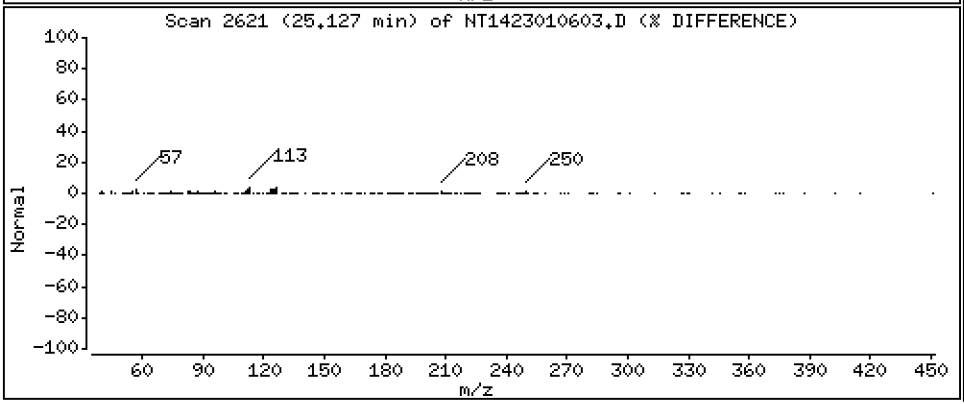












Date : 06-JAN-2023 12:48

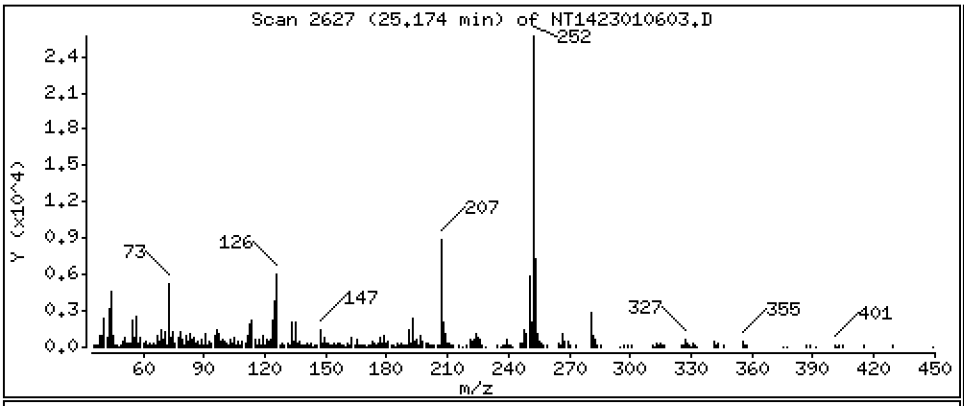
Client ID: Instrument: nt14.i

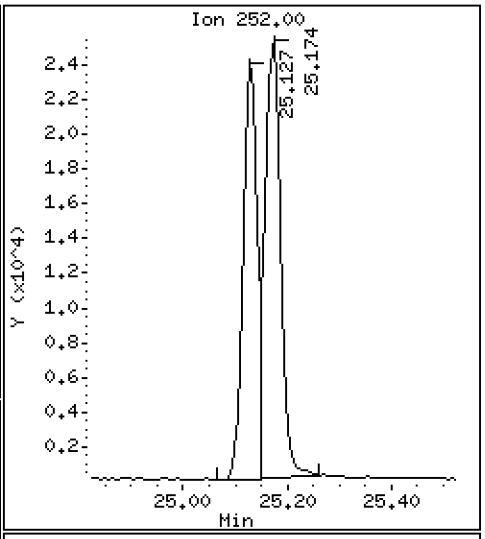
Sample Info: SLA0068-LCV1

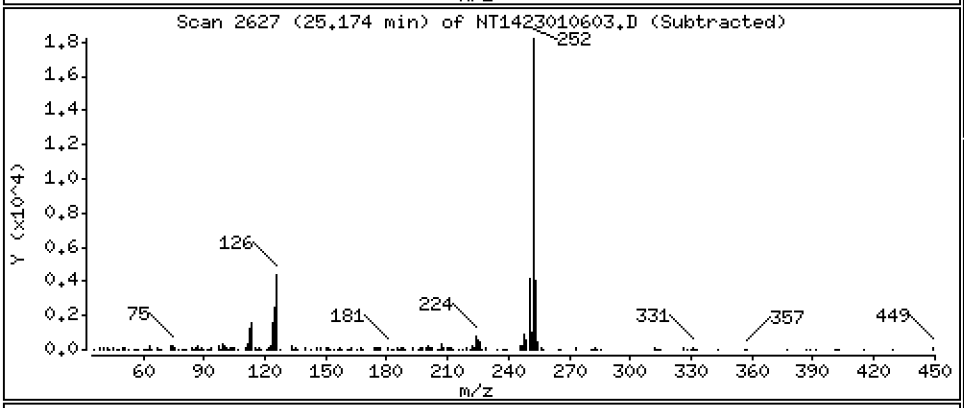
Operator: VTS

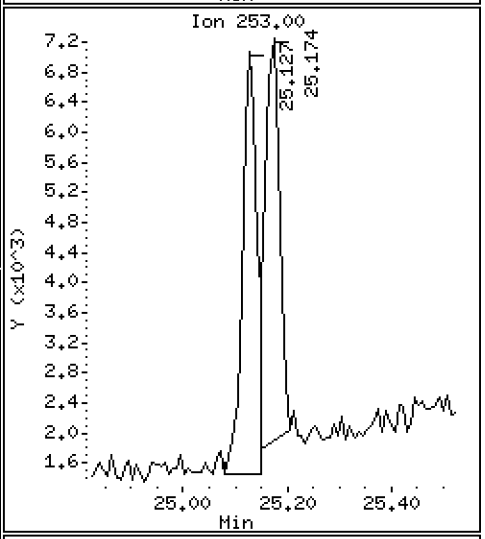
Column phase: ZB-5msi Column diameter: 0.25

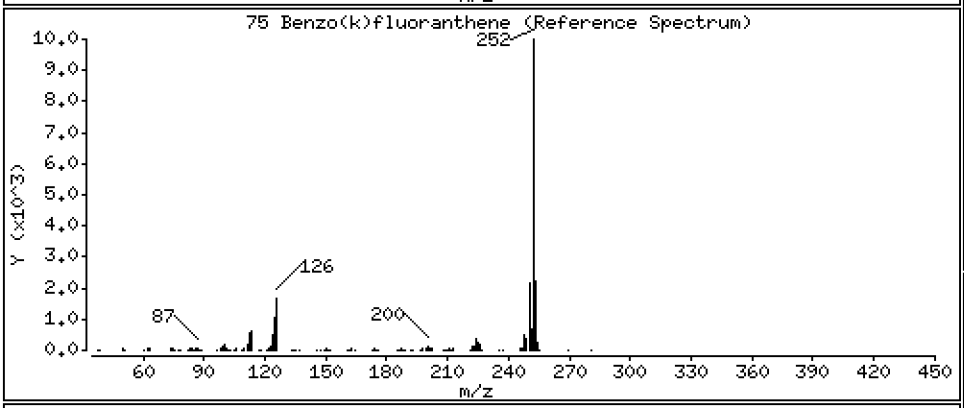
75 Benzo(k)fluoranthene Concentration: 0.4503 ug/mL

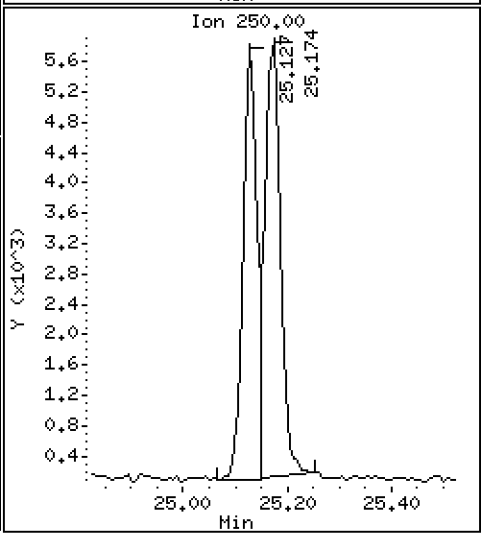


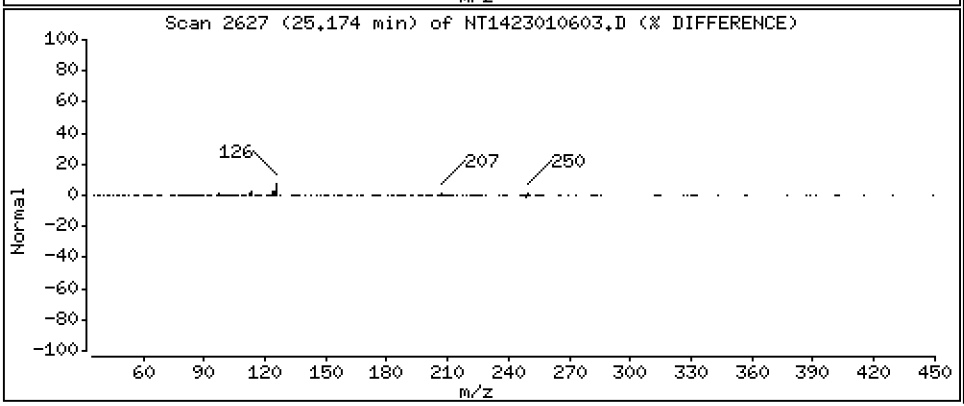












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

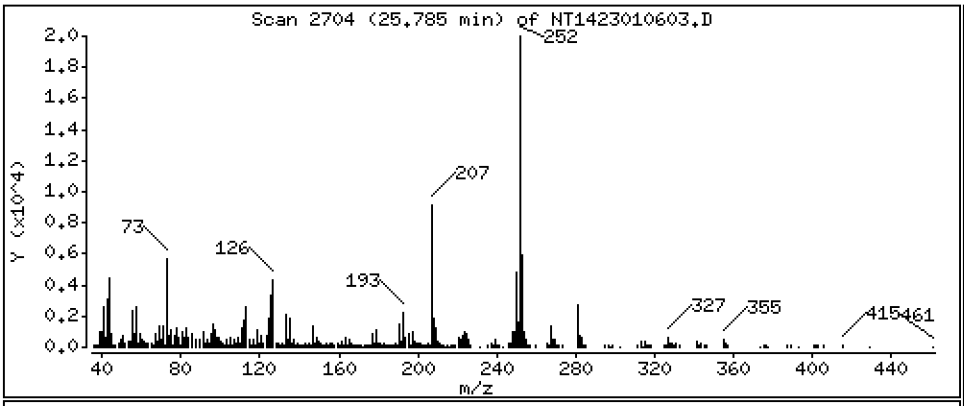
Operator: VTS

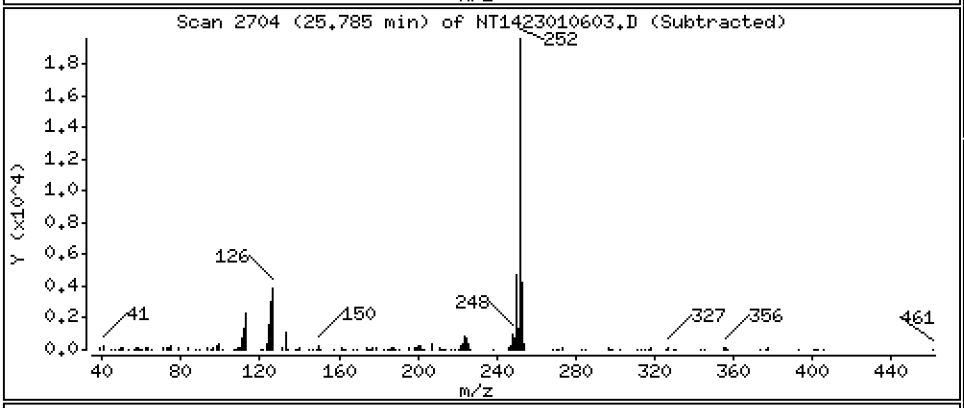
Column phase: ZB-5msi

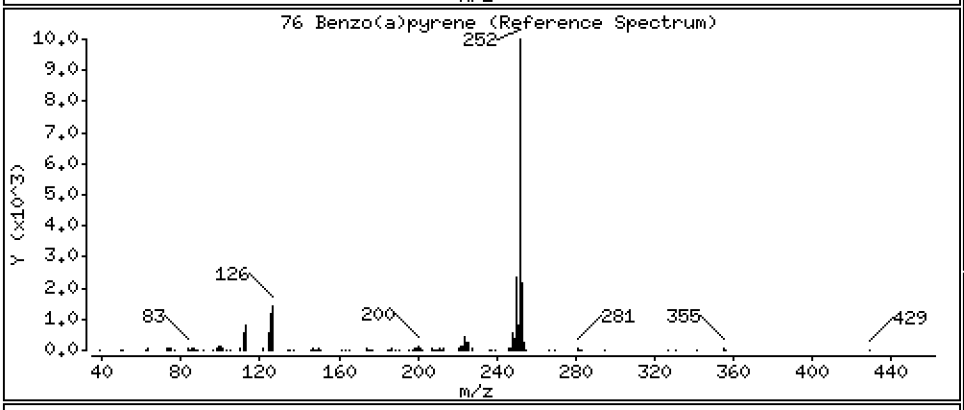
Column diameter: 0.25

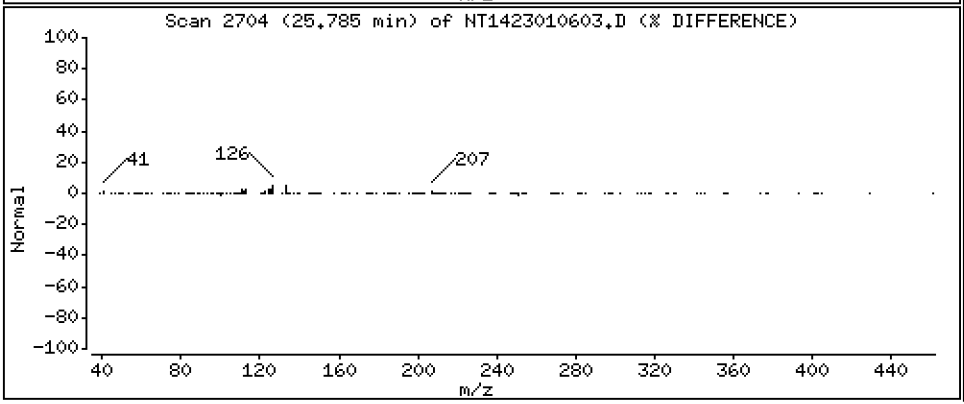
76 Benzo(a)pyrene

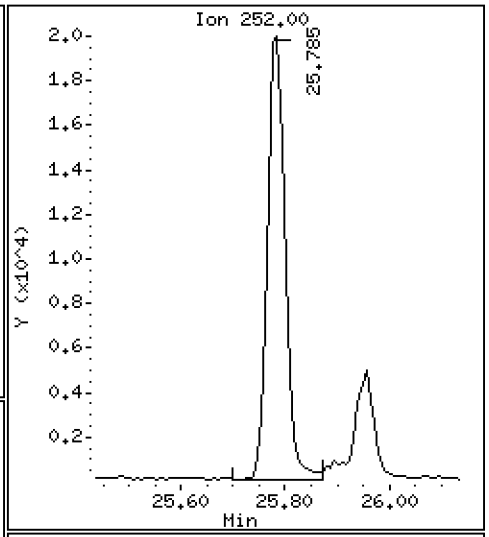
Concentration: 0.4834 ug/mL

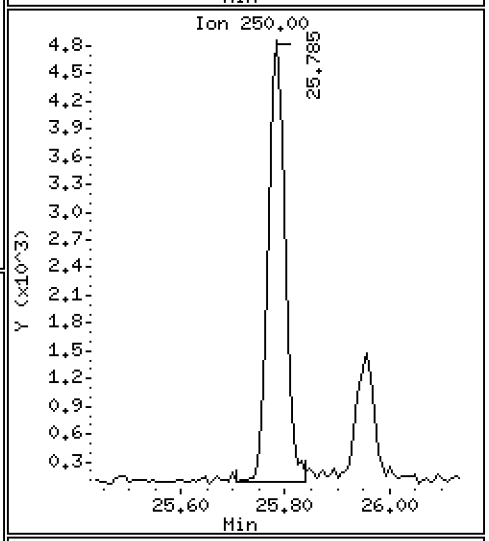


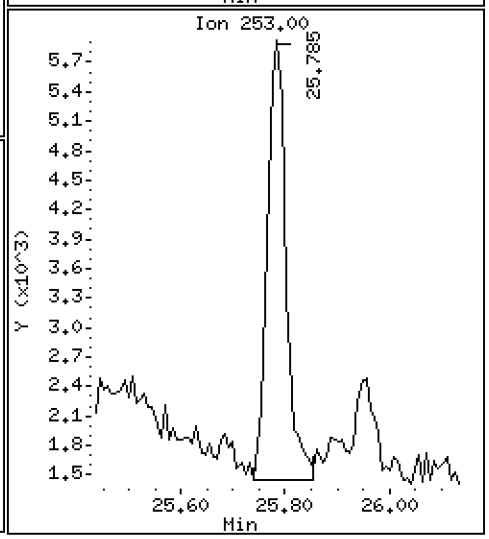












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

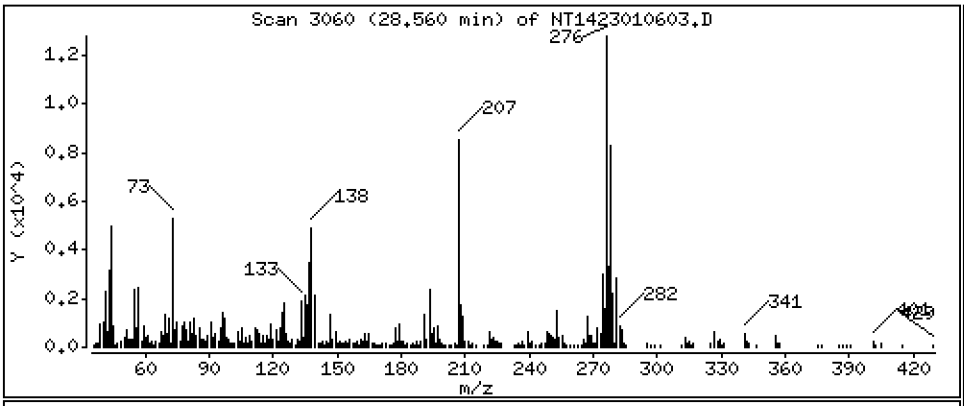
Operator: VTS

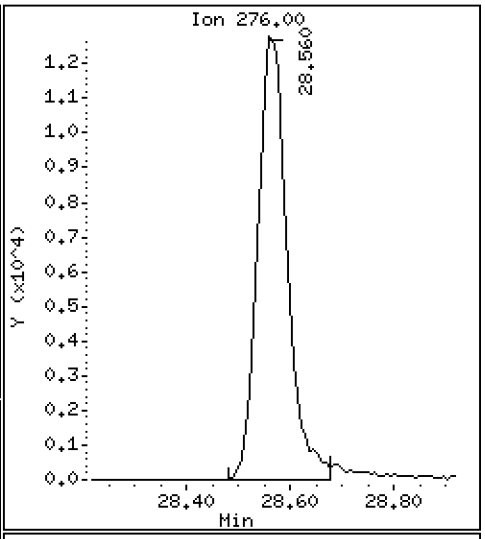
Column phase: ZB-5msi

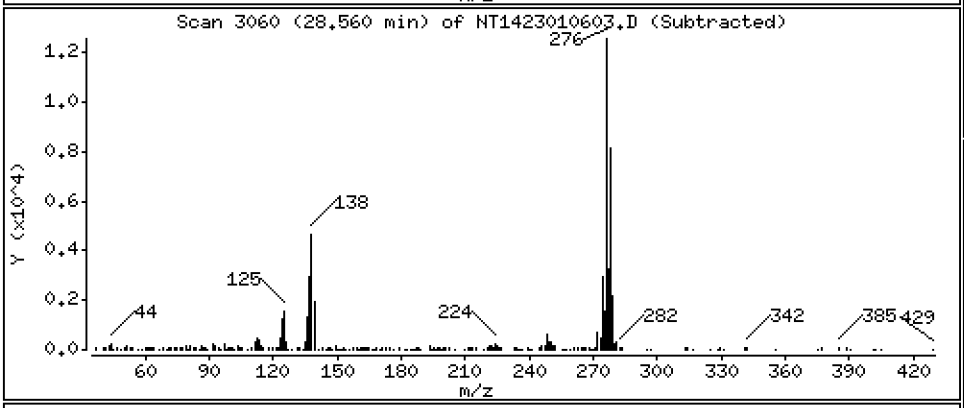
Column diameter: 0.25

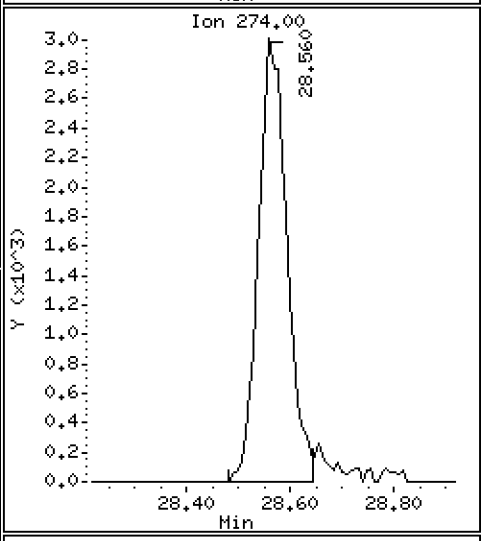
78 Indeno(1,2,3-cd)pyrene

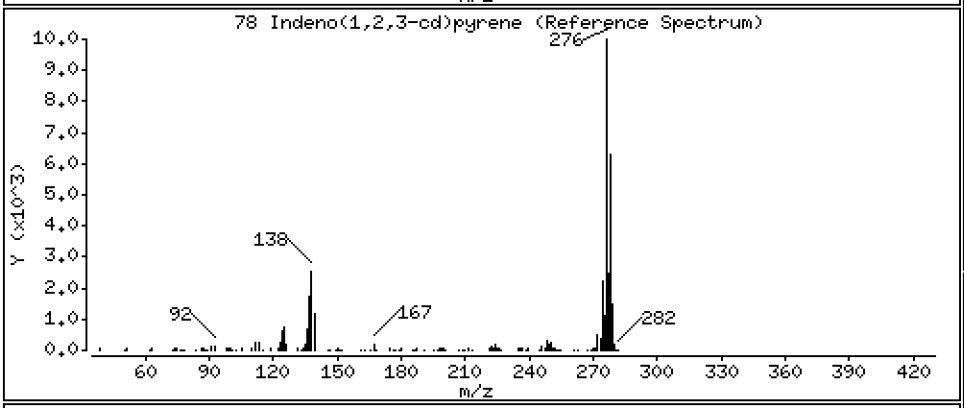
Concentration: 0.4679 ug/mL

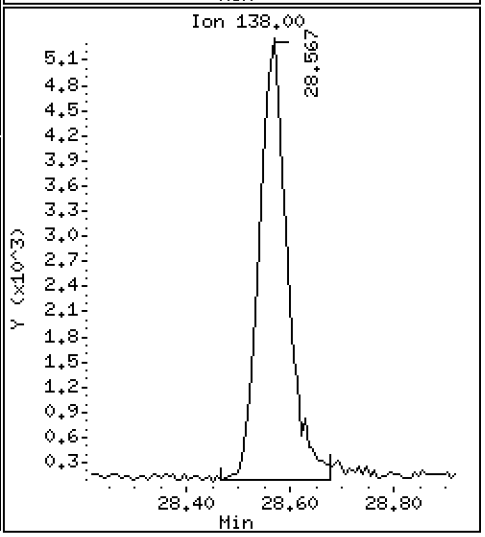


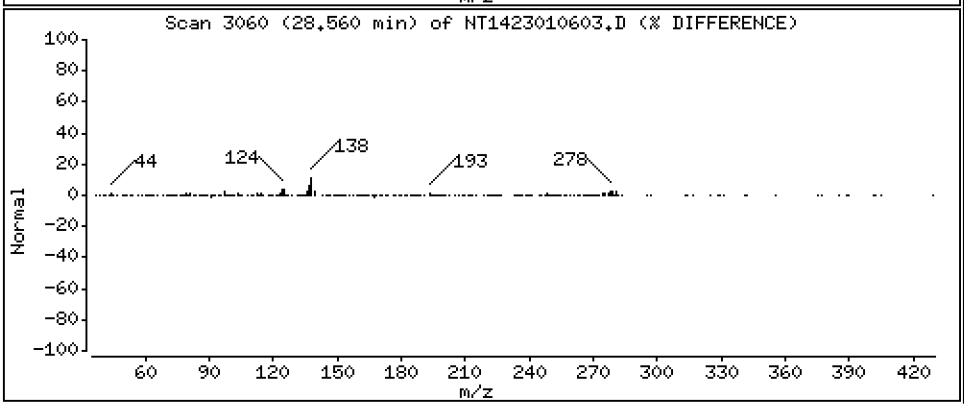












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

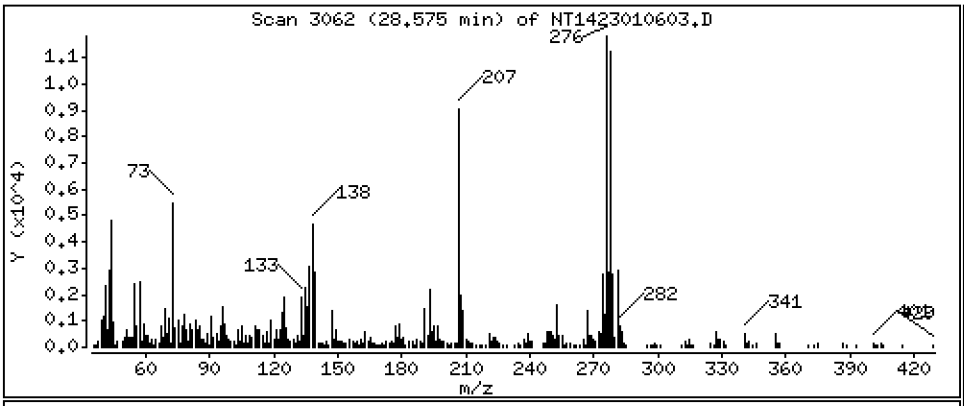
Operator: VTS

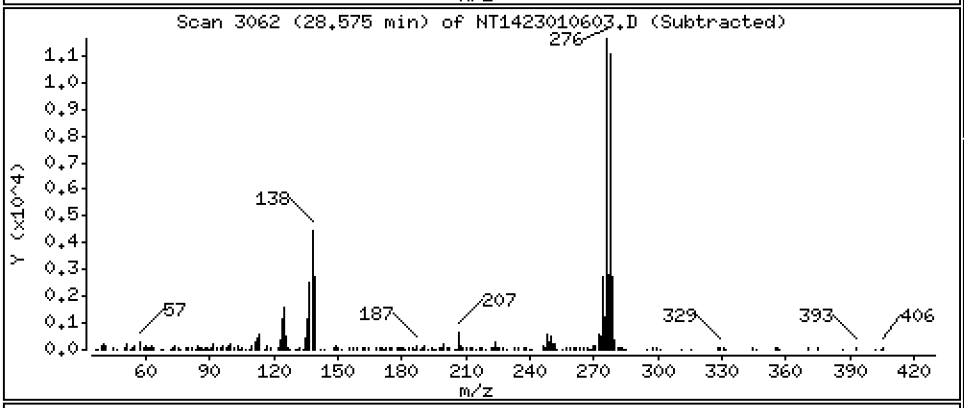
Column phase: ZB-5msi

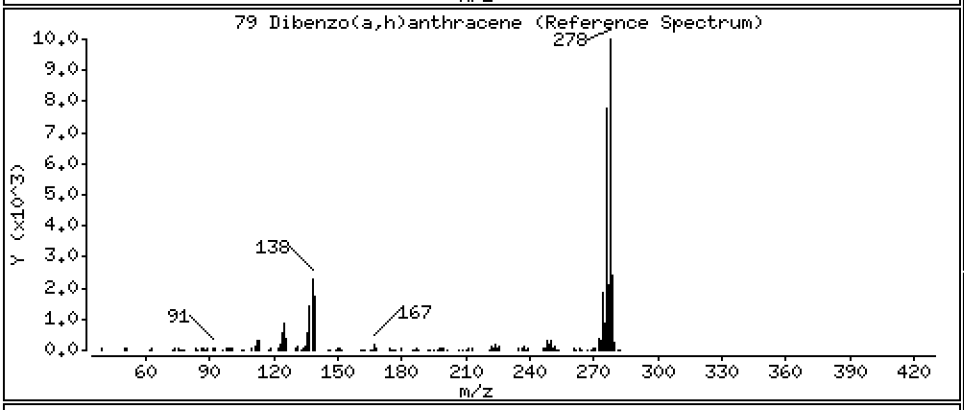
Column diameter: 0.25

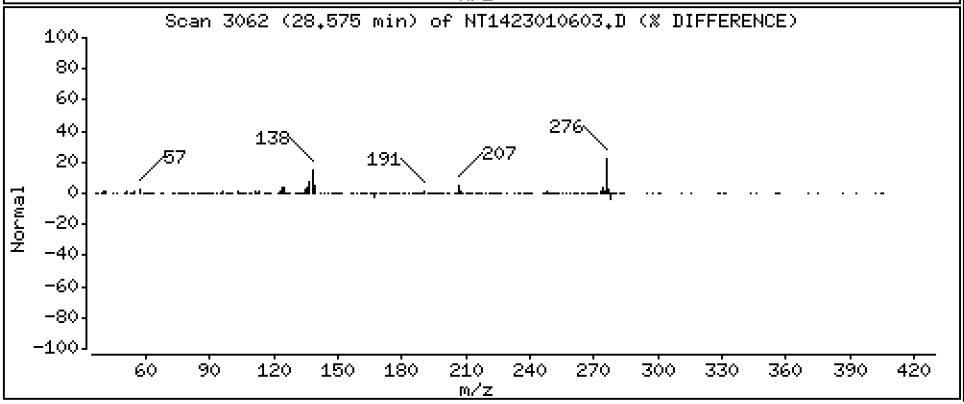
79 Dibenzo(a,h)anthracene

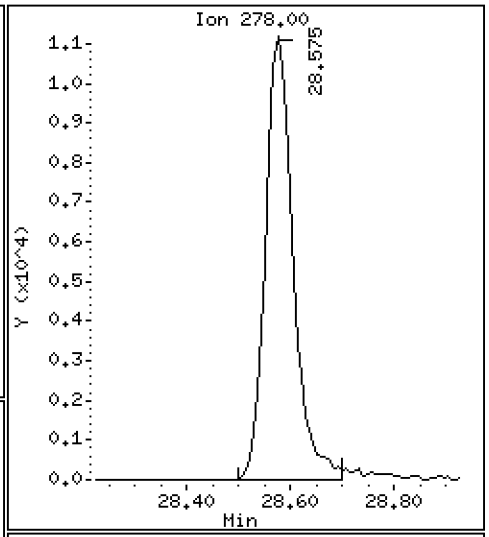
Concentration: 0.4516 ug/mL

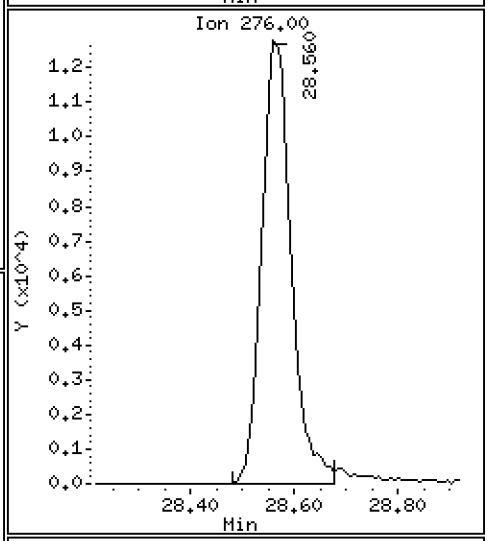


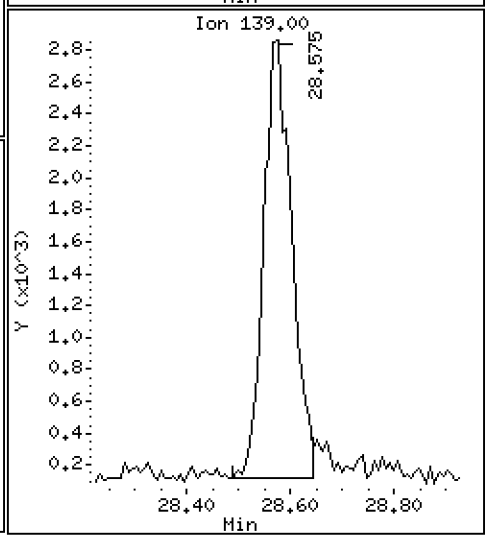












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

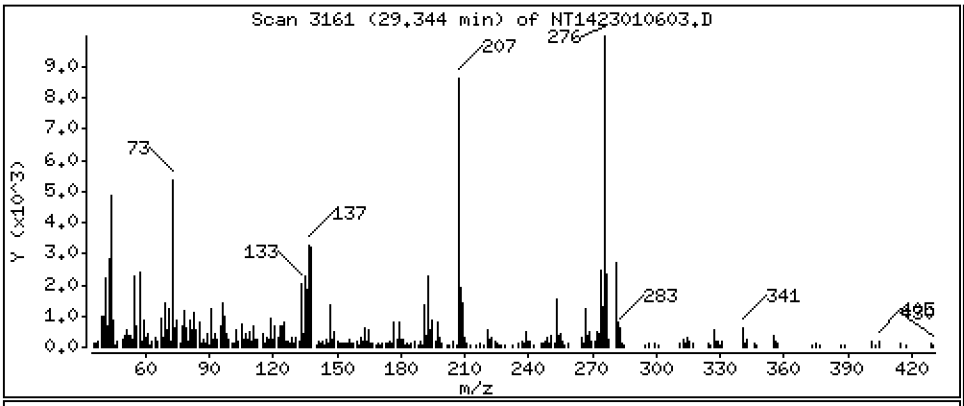
Operator: VTS

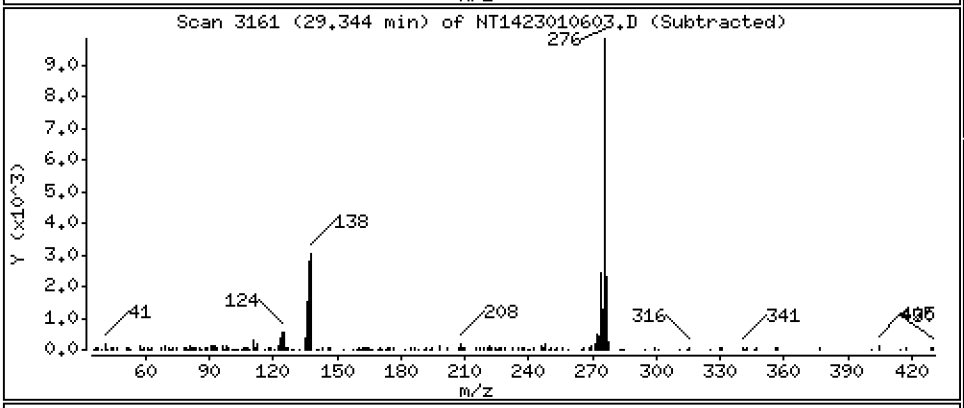
Column phase: ZB-5msi

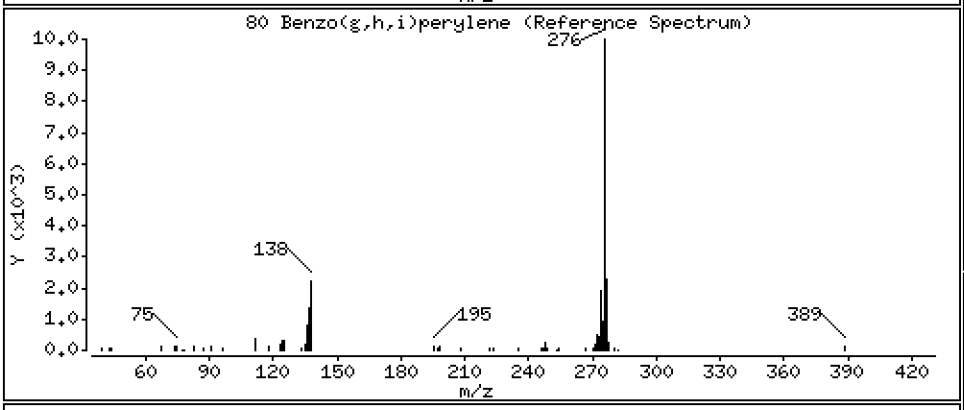
Column diameter: 0.25

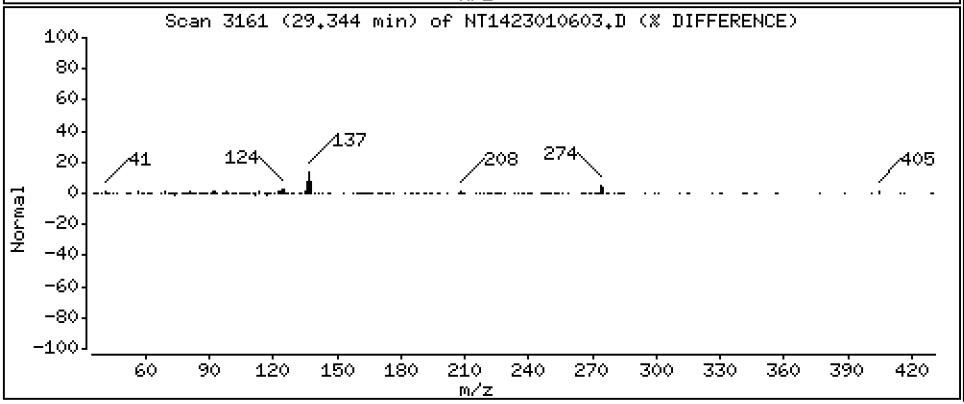
80 Benzo(g,h,i)perylene

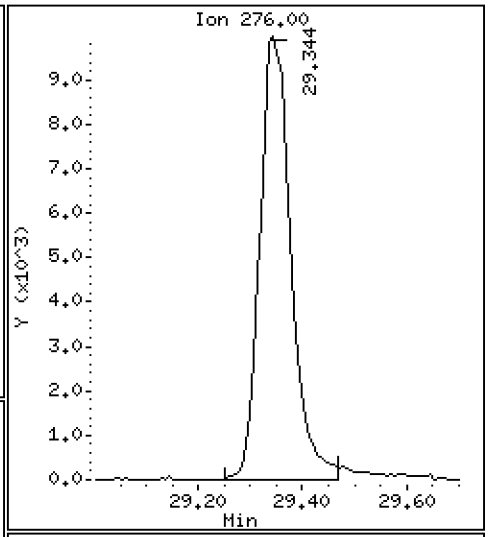
Concentration: 0.4629 ug/mL

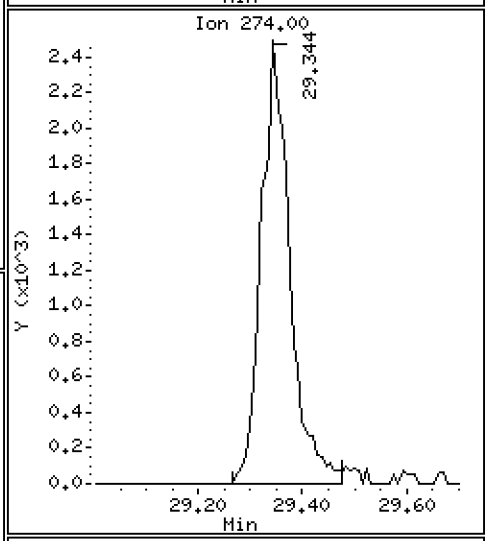


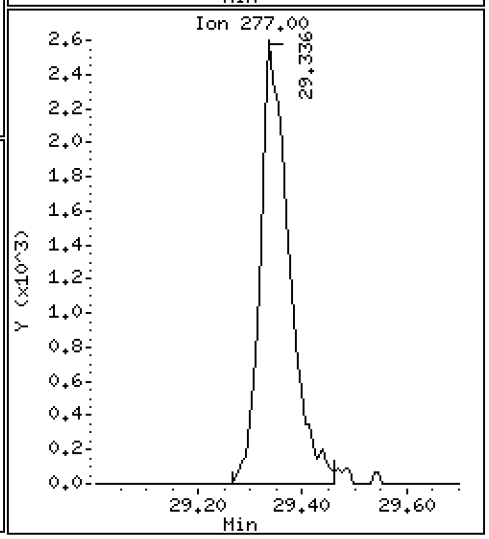












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

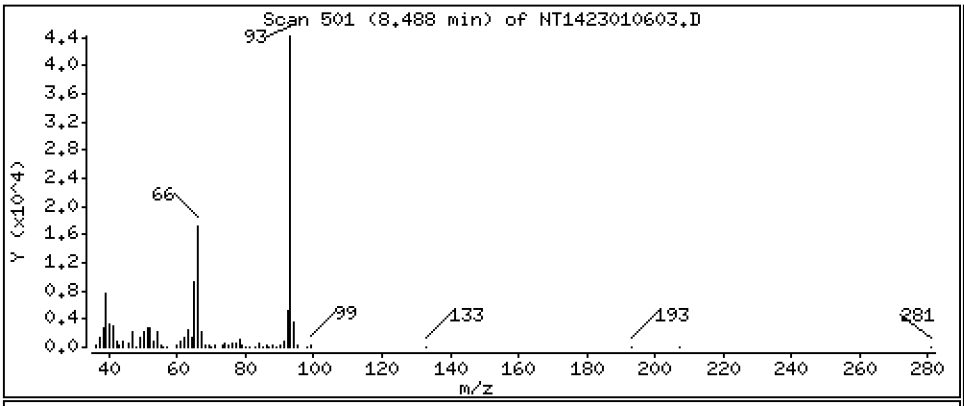
Operator: VTS

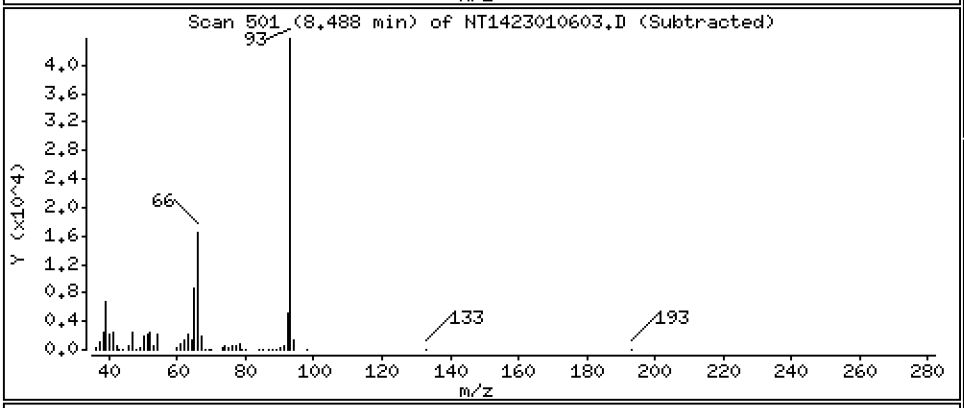
Column phase: ZB-5msi

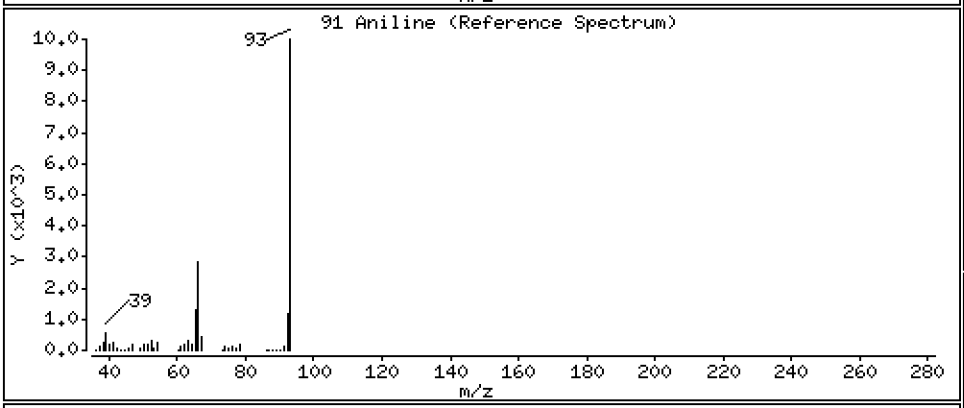
Column diameter: 0.25

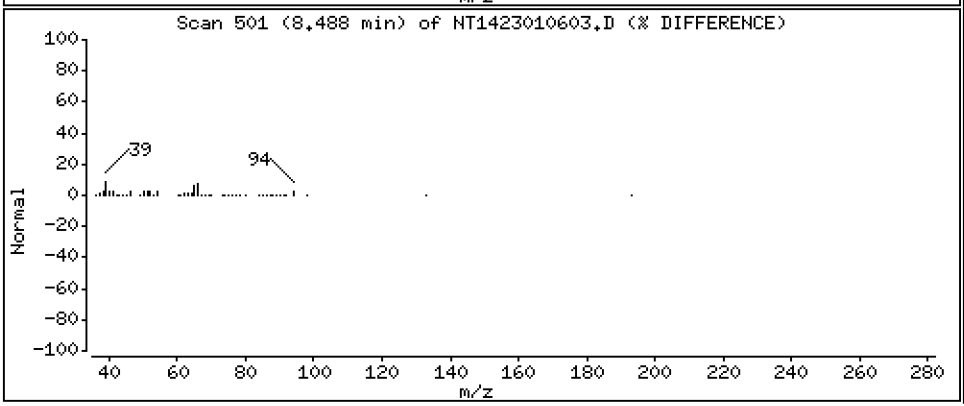
91 Aniline

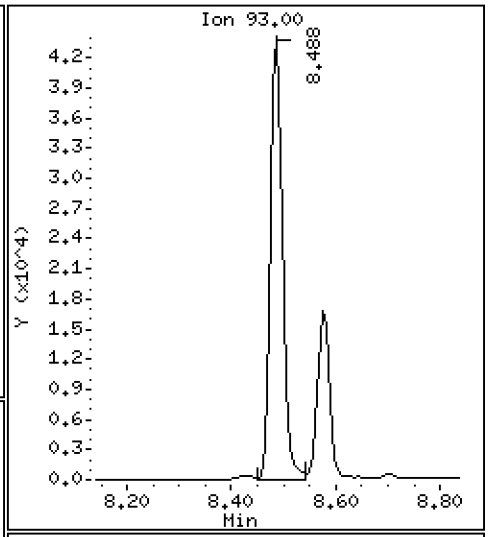
Concentration: 0.9312 ug/mL

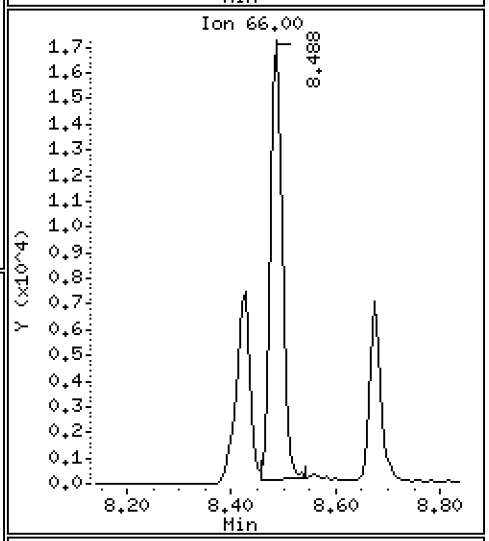


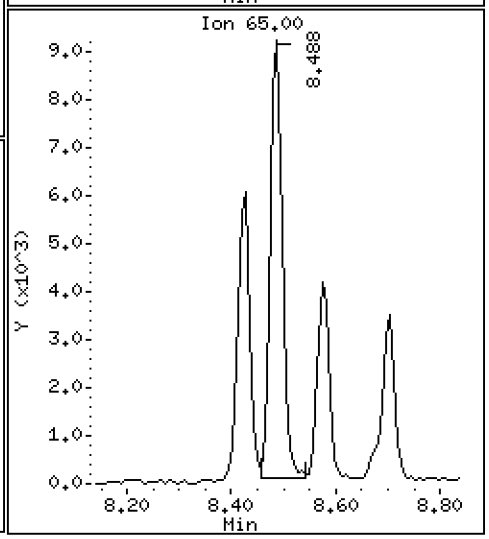












Date : 06-JAN-2023 12:48

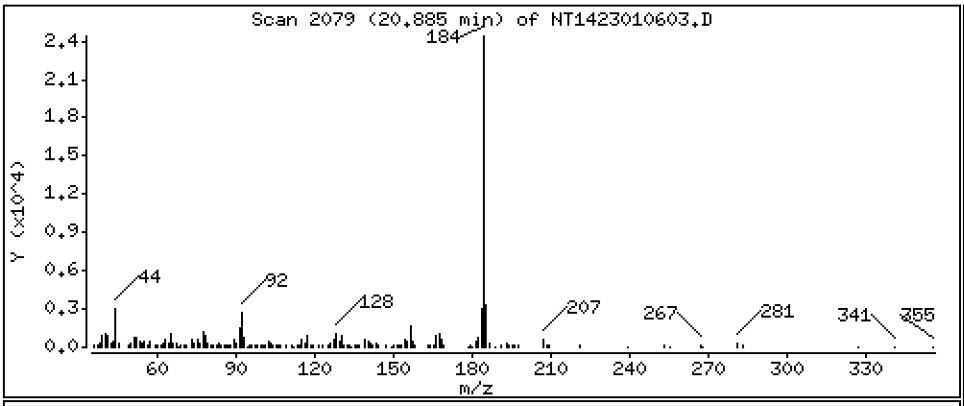
Client ID: Instrument: nt14.i

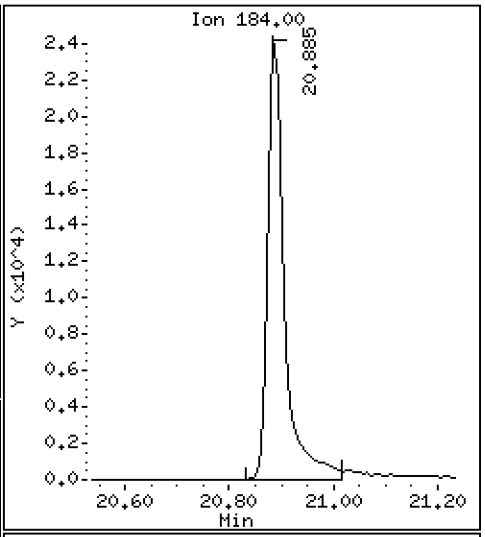
Sample Info: SLA0068-LCV1

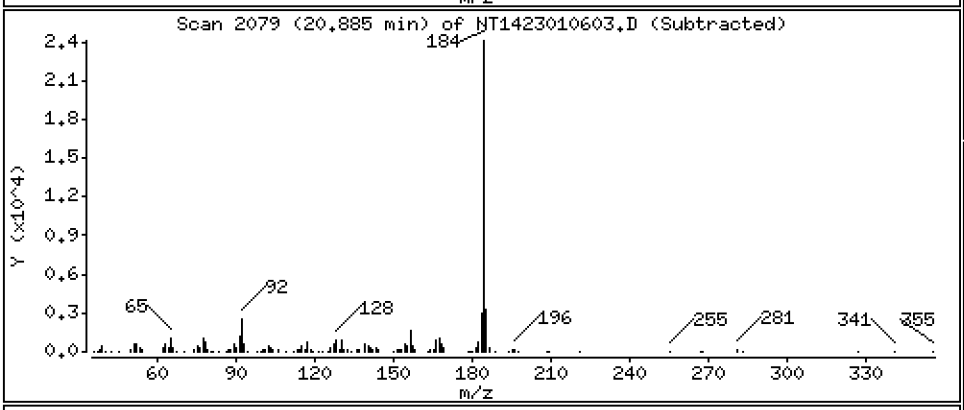
Operator: VTS

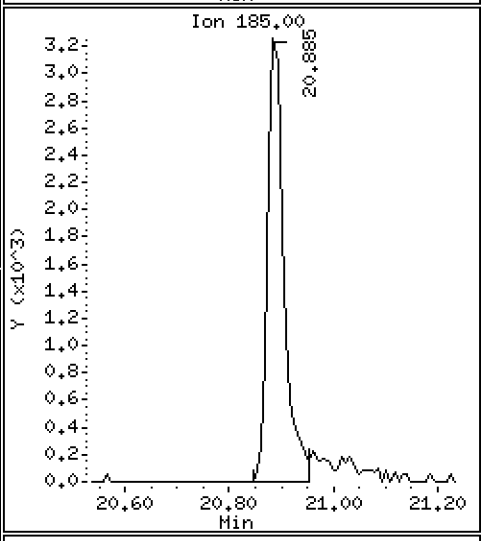
Column phase: ZB-5msi Column diameter: 0.25

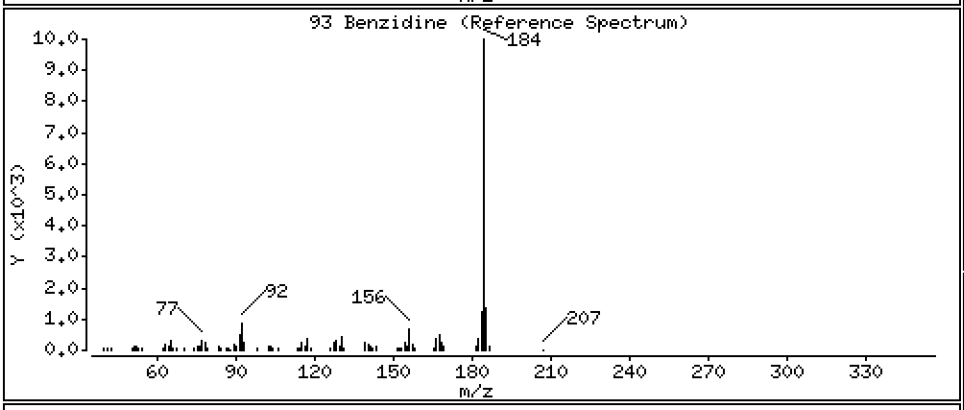
93 Benzidine Concentration: 1.100 ug/mL

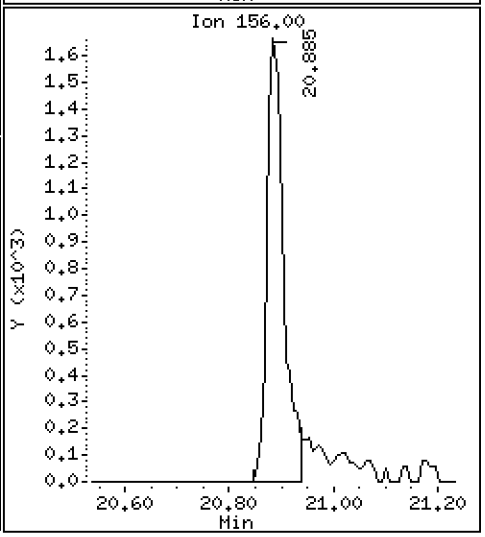


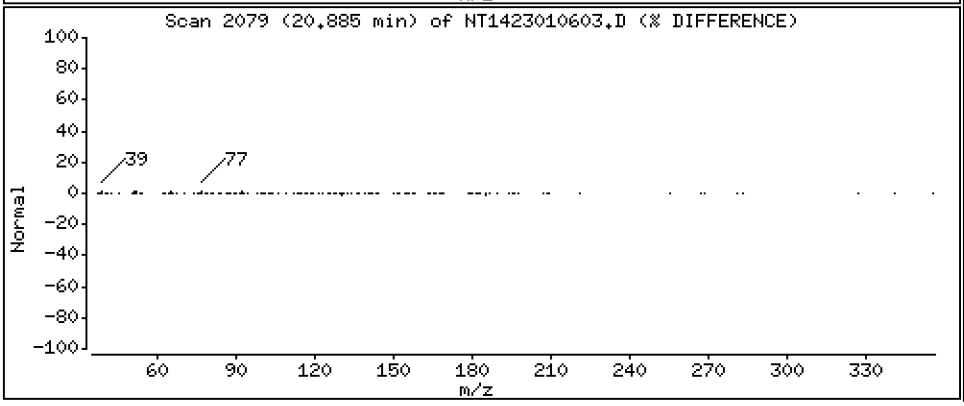












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

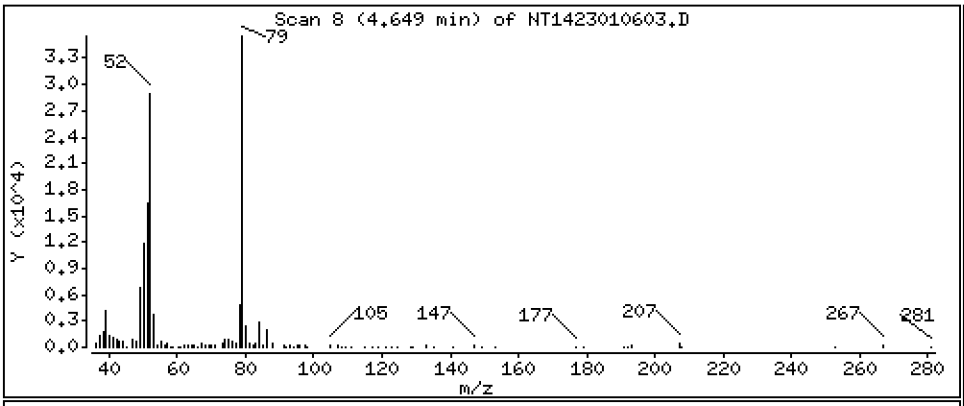
Operator: VTS

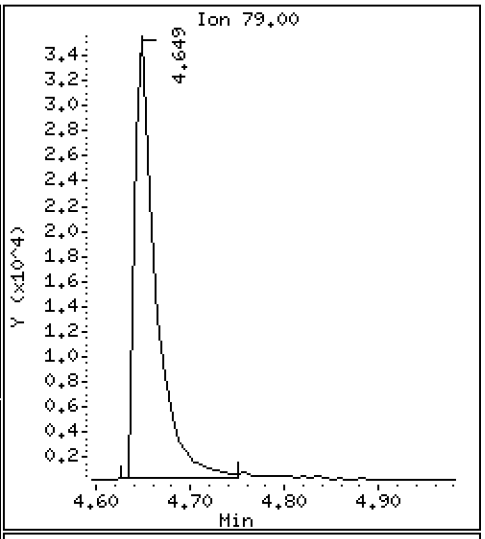
Column phase: ZB-5msi

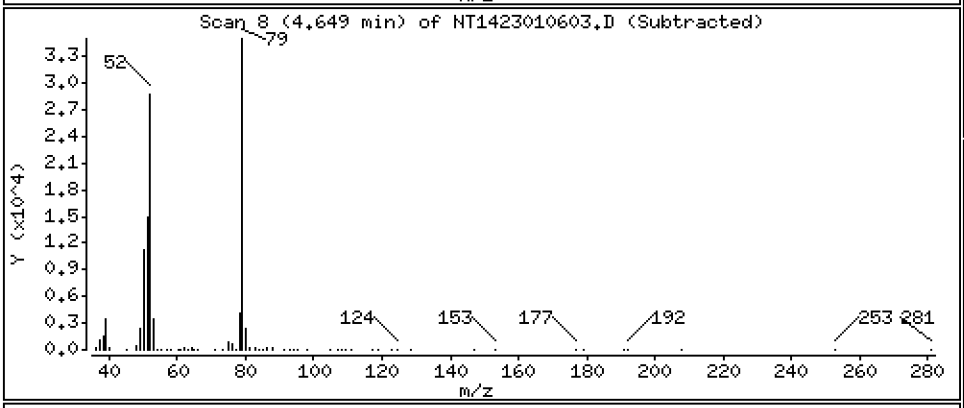
Column diameter: 0.25

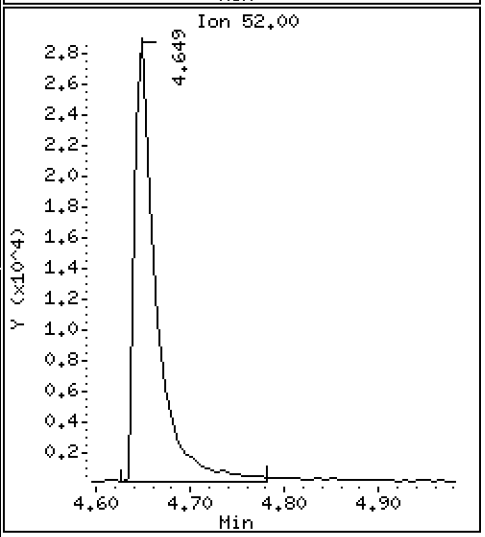
103 Pyridine

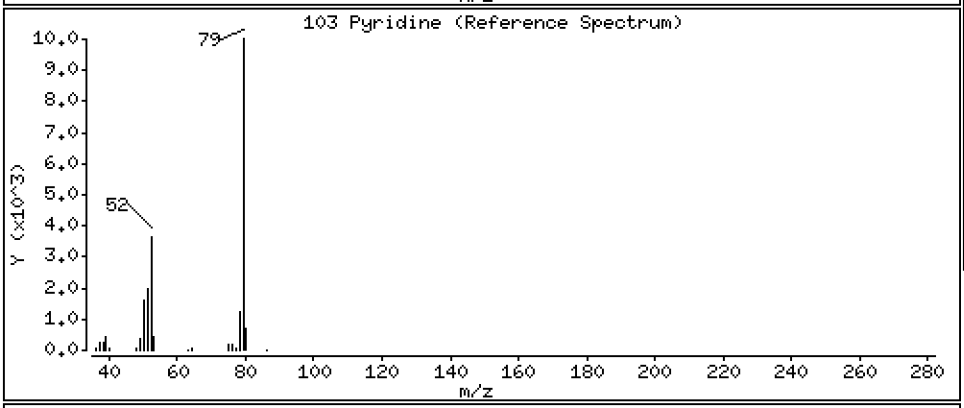
Concentration: 0.4878 ug/mL

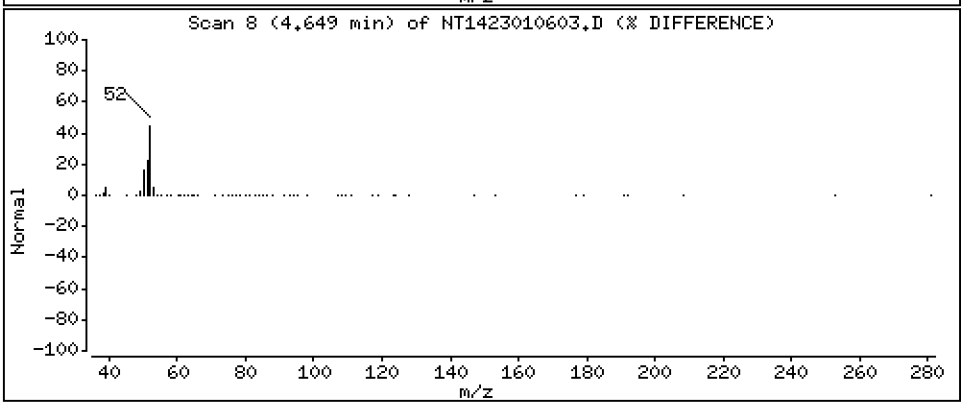












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

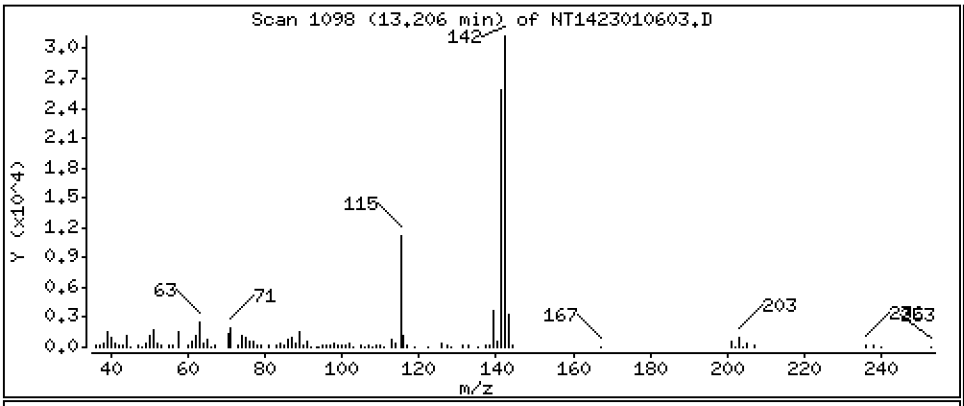
Operator: VTS

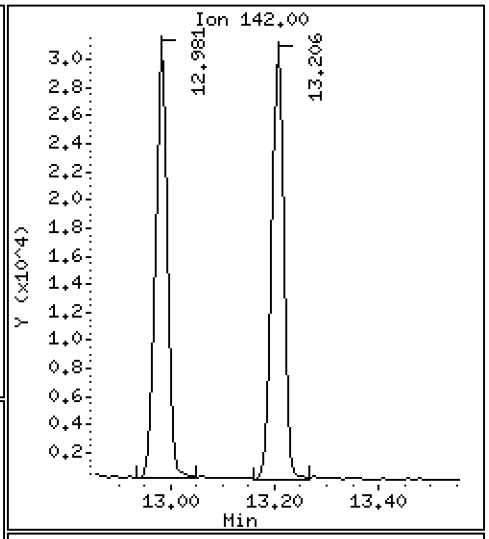
Column phase: ZB-5msi

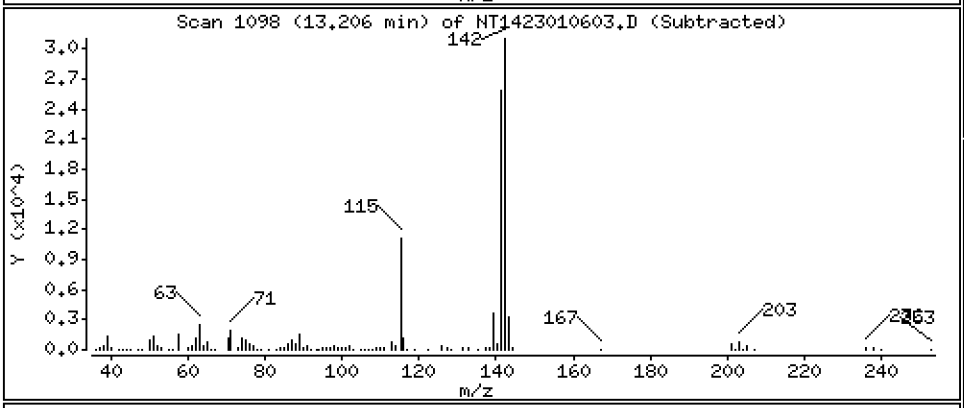
Column diameter: 0.25

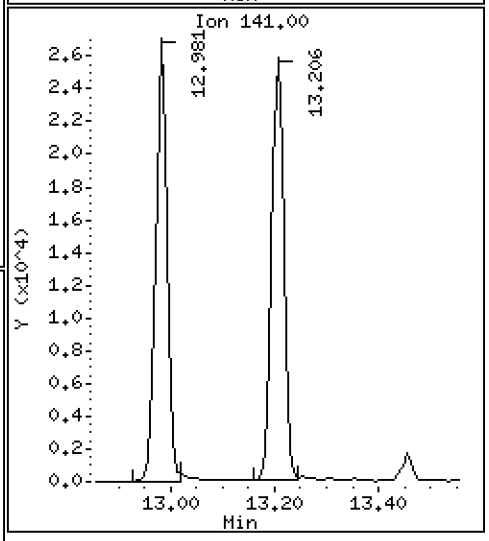
105 1-methylnaphthalene

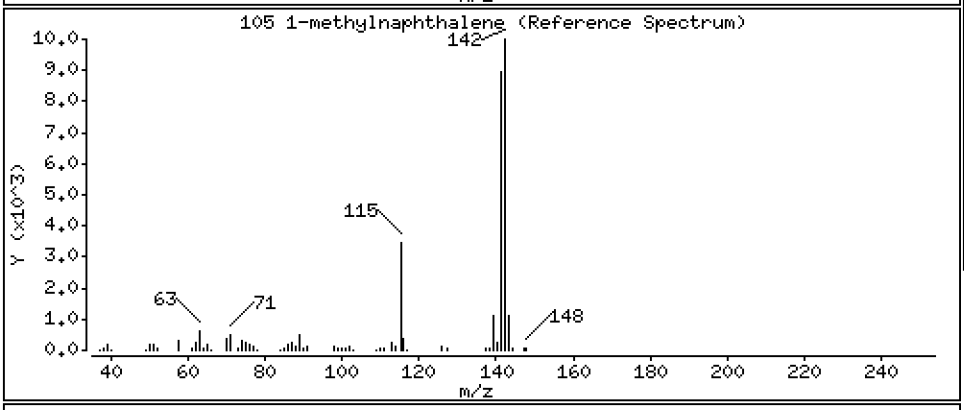
Concentration: 0.4366 ug/mL

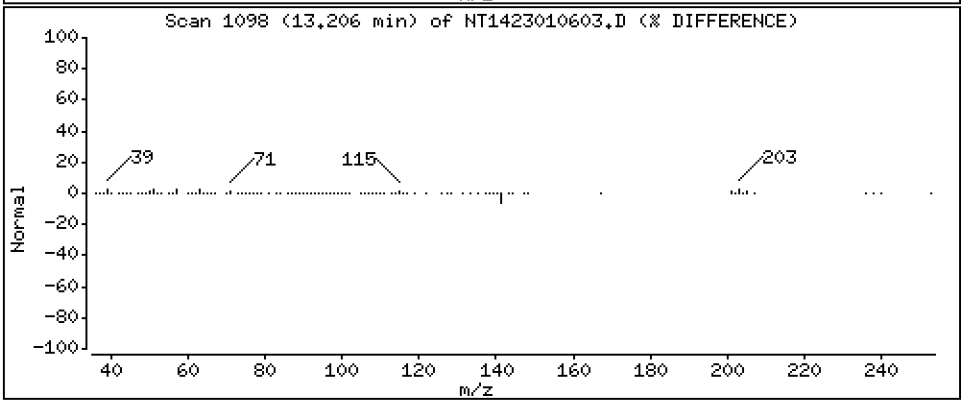












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

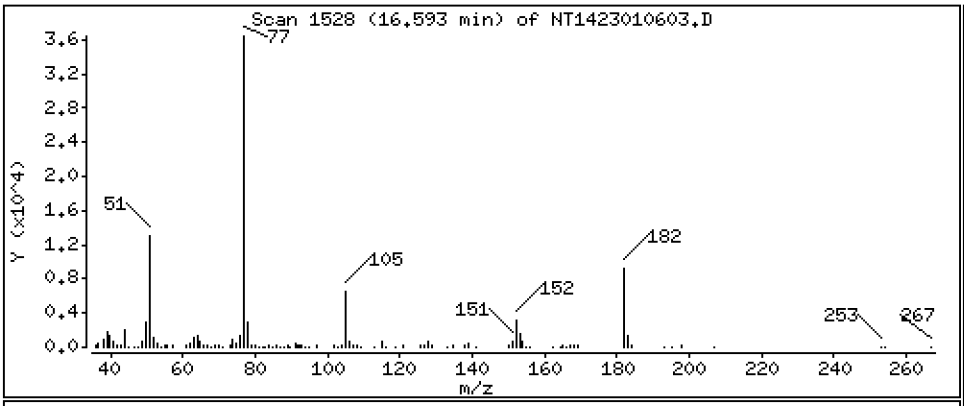
Operator: VTS

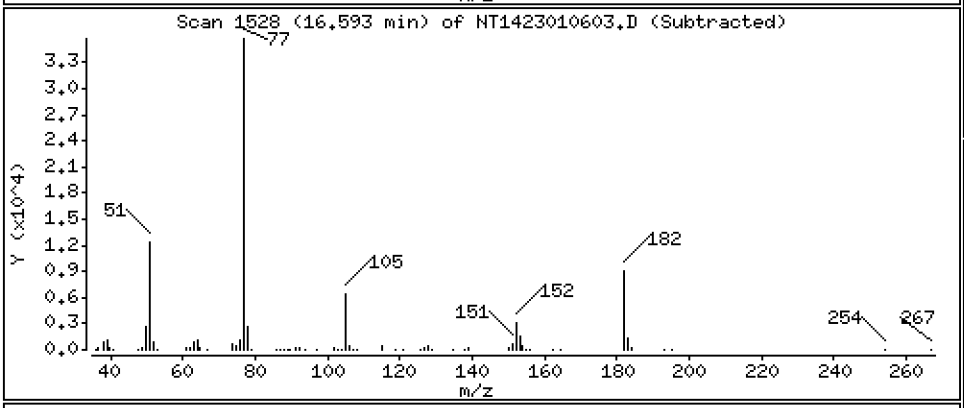
Column phase: ZB-5msi

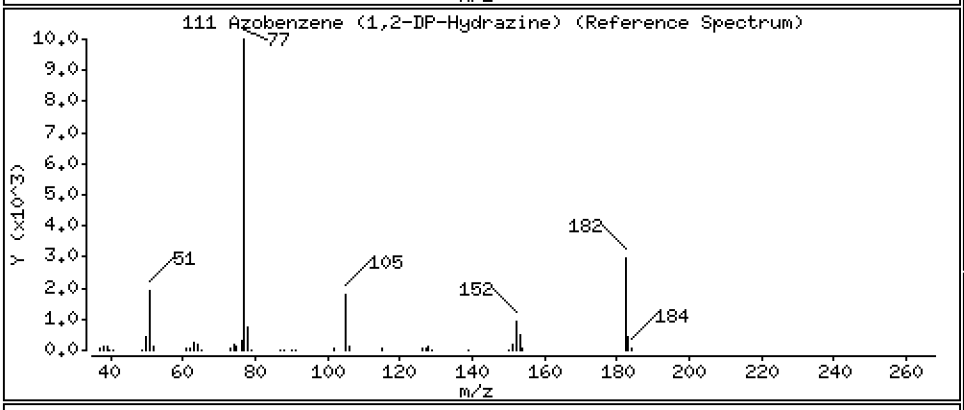
Column diameter: 0.25

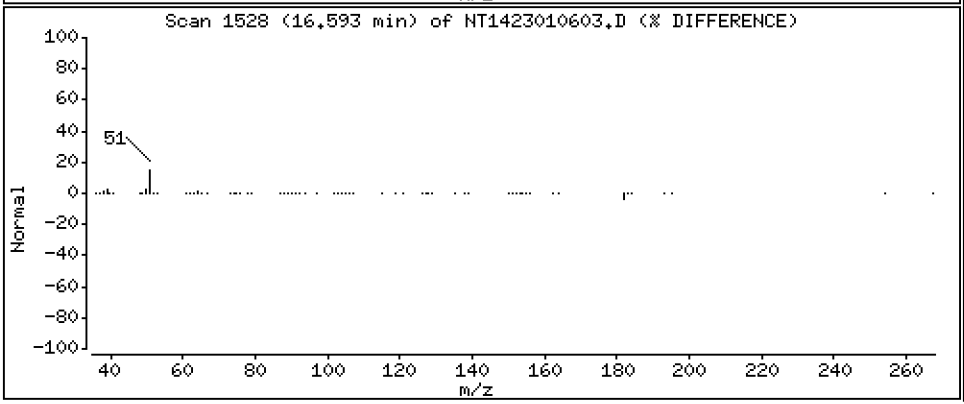
111 Azobenzene (1,2-DP-Hydrazine)

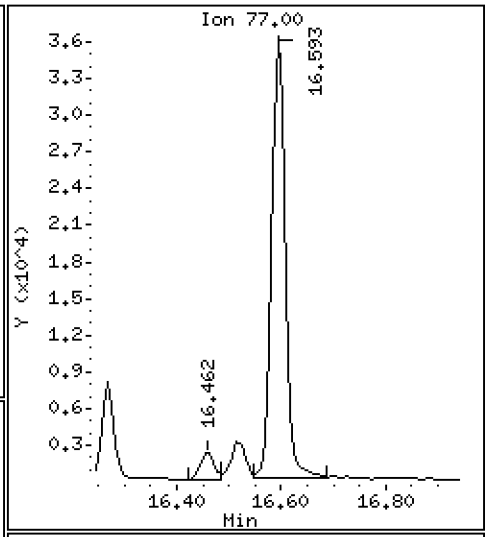
Concentration: 0.5482 ug/mL

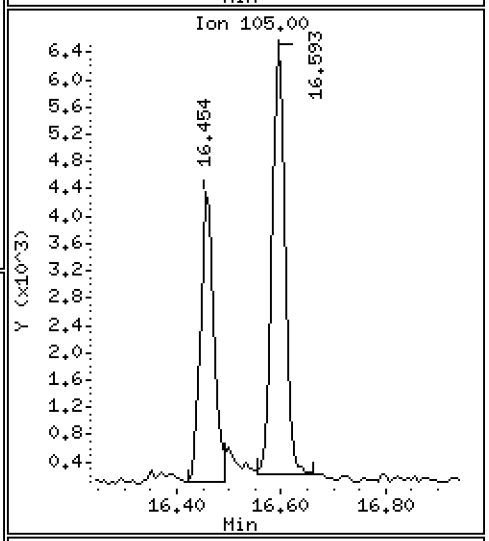


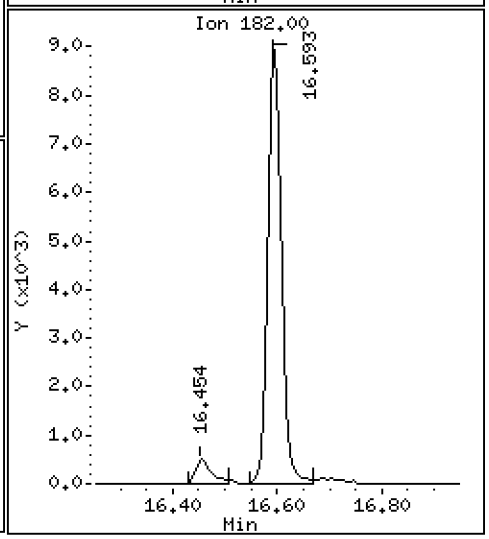












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

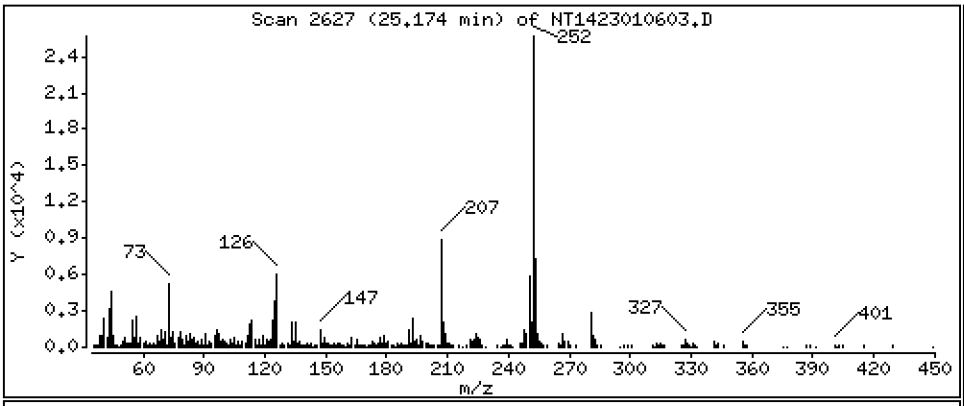
Operator: VTS

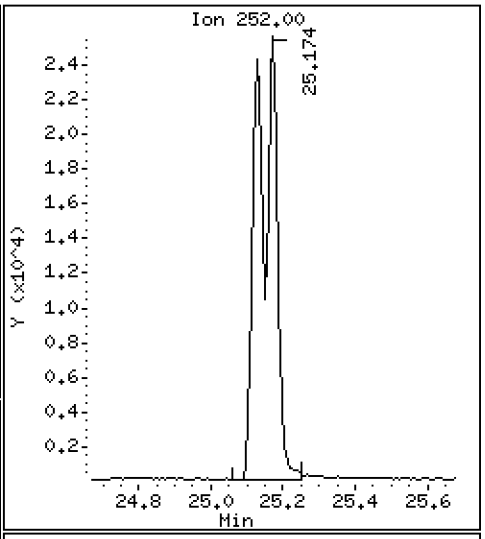
Column phase: ZB-5msi

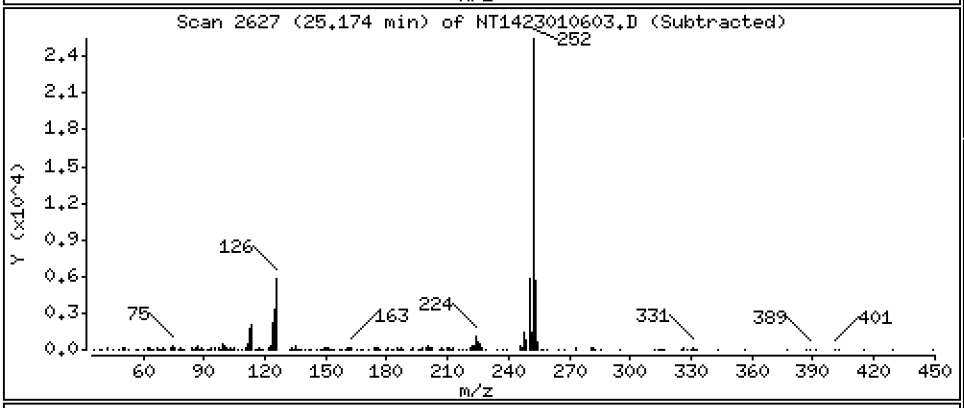
Column diameter: 0.25

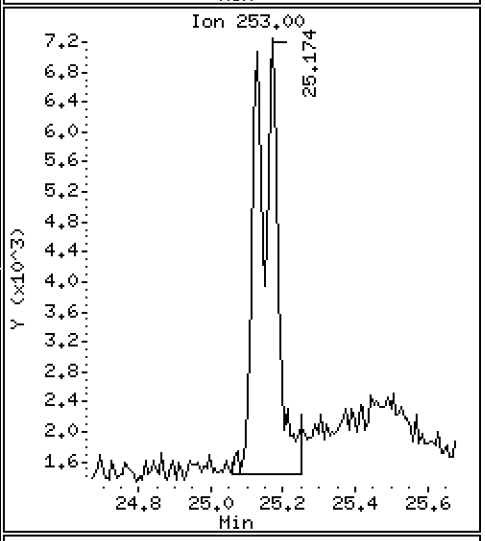
187 Total Benzofluoranthenes

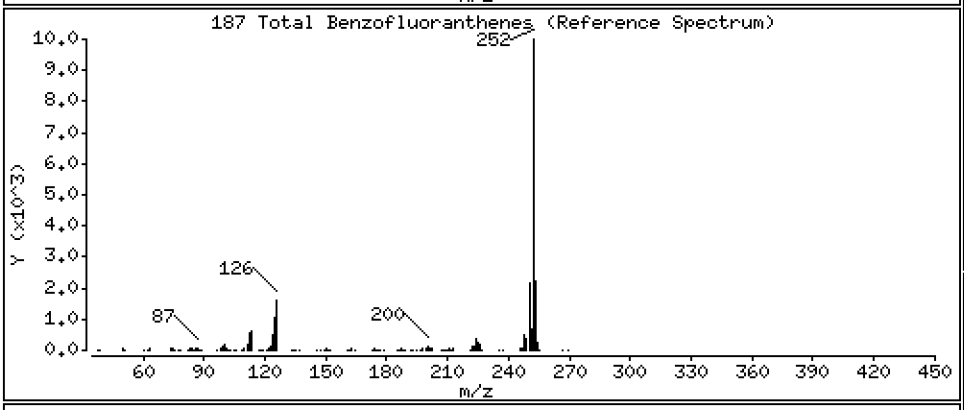
Concentration: 0.8865 ug/mL

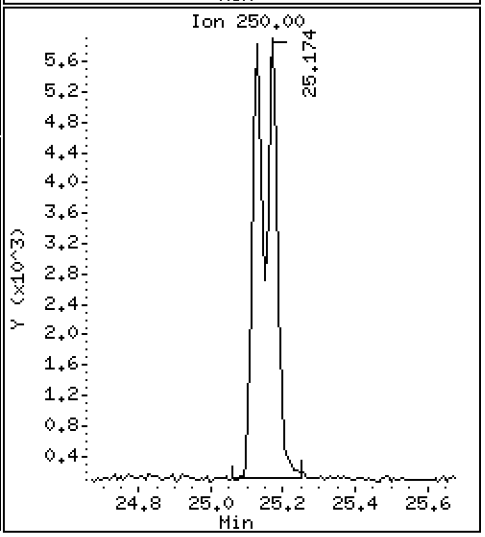


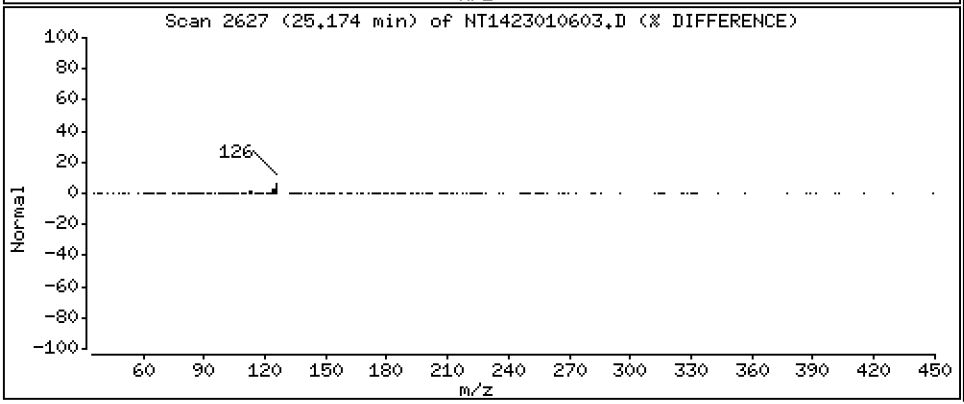












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

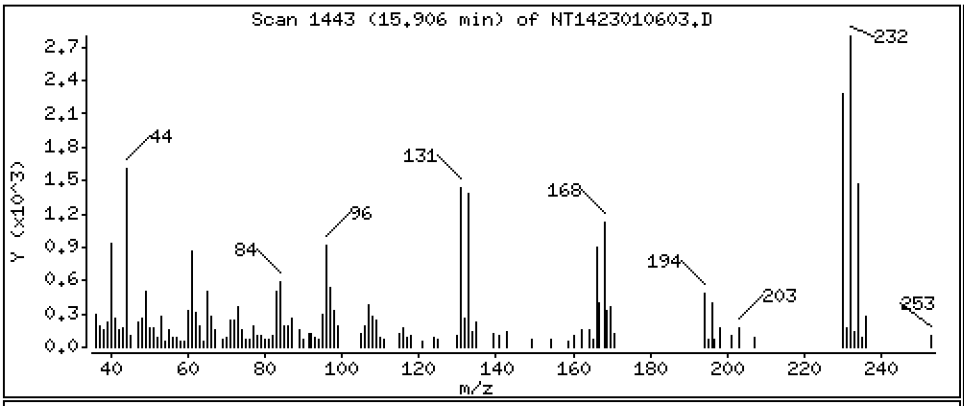
Operator: VTS

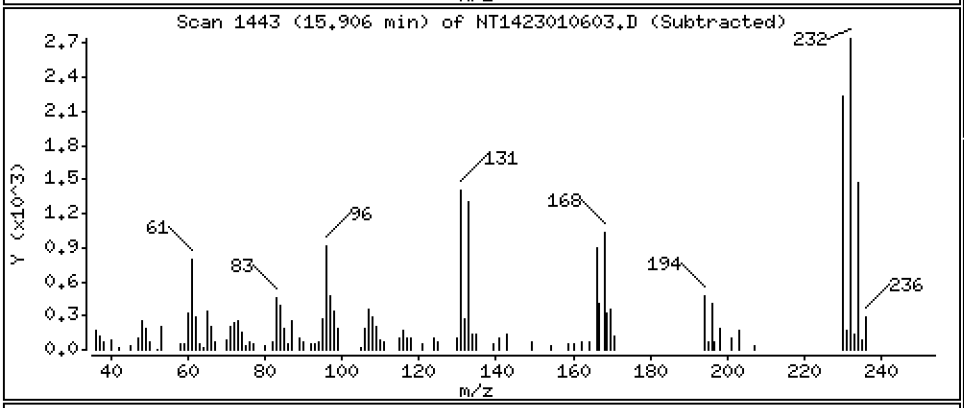
Column phase: ZB-5msi

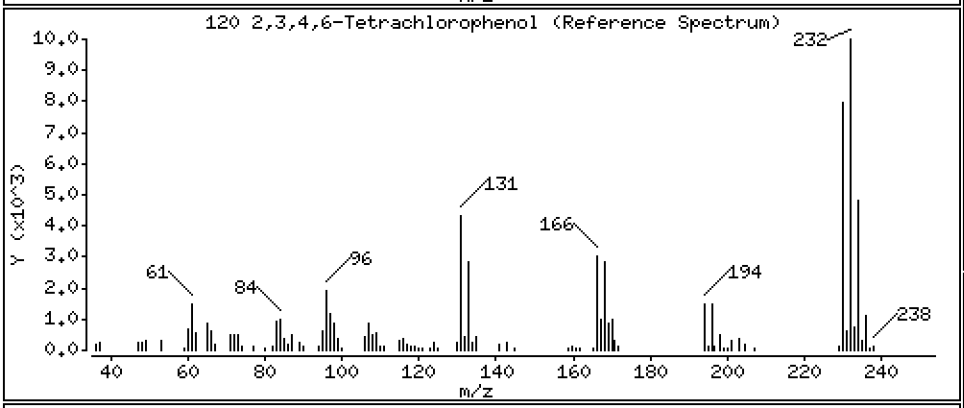
Column diameter: 0.25

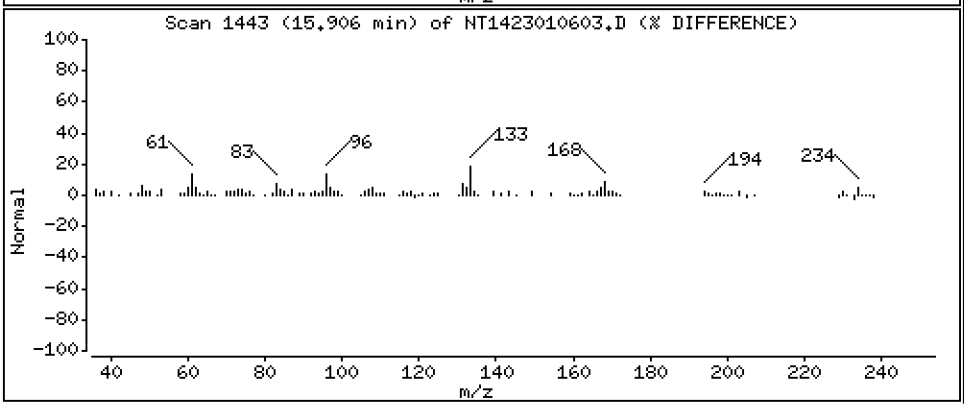
120 2,3,4,6-Tetrachlorophenol

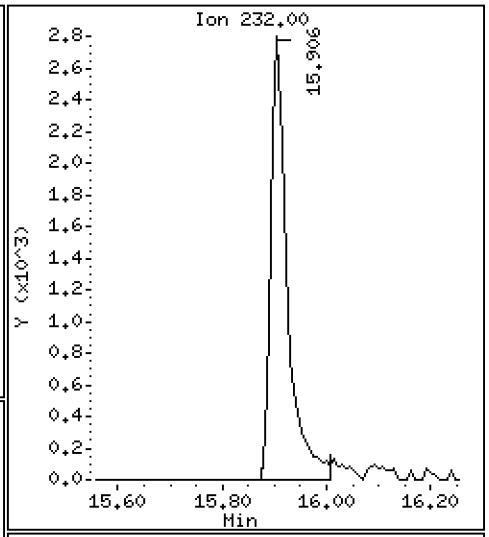
Concentration: 0.2797 ug/mL

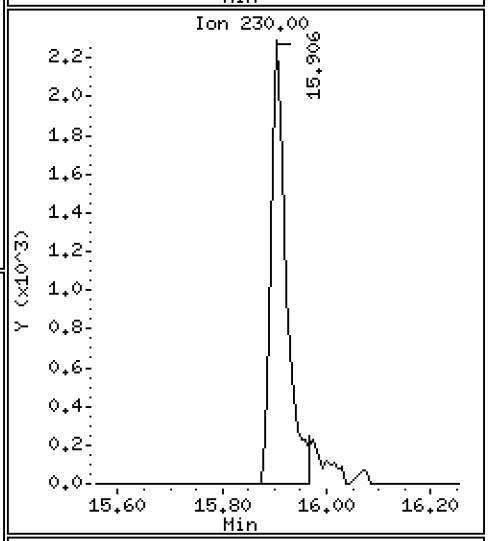


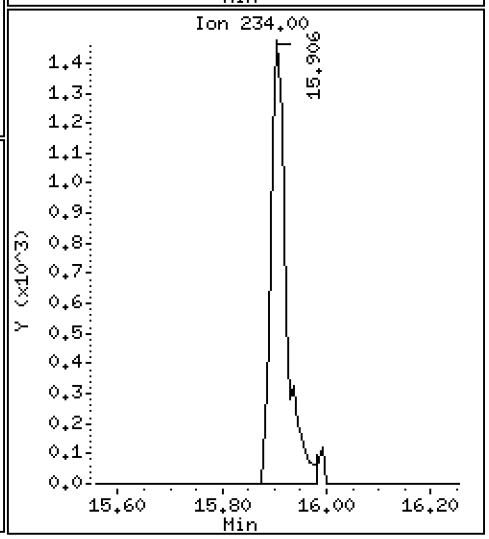












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SLA0068-LCV1
Inj Date : 06-JAN-2023 12:48 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	35843	0.68380	0.6838
$	2 Phenol-d5	99	8.403	8.403	(0.930)	41899	0.64681	0.6468
	3 Phenol	94	8.426	8.426	(0.932)	31338	0.42575	0.4258
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	37904	0.69672	0.6967
	4 Bis(2-Chloroethyl)ether	93	8.573	8.580	(0.949)	24557	0.48431	0.4843
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	27229	0.45573	0.4557
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	29472	0.46518	0.4652
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	163613	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	28013	0.46671	0.4667
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	17406	0.46811	0.4681
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	28188	0.47886	0.4789
	11 Benzyl alcohol	108	9.309	9.308	(1.030)	14131	0.43124	0.4312
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	8673	0.50820	0.5082(M)
	13 2-Methylphenol	108	9.541	9.541	(1.056)	22971	0.42948	0.4295
	17 Hexachloroethane	117	10.023	10.022	(1.109)	11557	0.52353	0.5235
	16 N-Nitroso-di-n-propylamine	70	9.868	9.867	(1.092)	17117	0.52535	0.5254
	15 4-Methylphenol	108	9.813	9.813	(1.086)	22677	0.40191	0.4019
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	26063	0.50011	0.5001
	19 Nitrobenzene	77	10.170	10.170	(0.882)	25237	0.48761	0.4876
	20 Isophorone	82	10.620	10.620	(0.921)	31170	0.47253	0.4725
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	11150	0.35228	0.3523
	22 2,4-Dimethylphenol	107	10.861	10.868	(0.942)	42986	0.79578	0.7958
	23 Bis(2-Chloroethoxy)methane	93	11.055	11.054	(0.958)	24185	0.47130	0.4713
	24 Benzoic acid	105	10.969	11.062	(0.951)	10520	0.31984	0.3198
	25 2,4-Dichlorophenol	162	11.264	11.263	(0.977)	30698	0.67418	0.6742
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	26326	0.53471	0.5347
*	27 Naphthalene-d8	136	11.535	11.542	(1.000)	617145	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	70005	0.46093	0.4609
	29 4-Chloroaniline	127	11.704	11.704	(1.015)	48798	0.77910	0.7791
	30 Hexachlorobutadiene	225	11.952	11.951	(1.036)	11436	0.46815	0.4682
	31 4-Chloro-3-methylphenol	107	12.679	12.679	(1.099)	30717	0.71486	0.7149
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	47639	0.42762	0.4276
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	12899	0.56291	0.5629

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	17311	0.68418	0.6842
	35	2,4,5-Trichlorophenol	196	13.685	13.685	(0.902)	15375	0.52652	0.5265
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	46583	0.45705	0.4570
	37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	39320	0.45349	0.4535
	38	2-Nitroaniline	65	14.235	14.234	(0.938)	21716	0.95264	0.9526
	39	Dimethylphthalate	163	14.668	14.668	(0.967)	41339	0.48356	0.4836
	40	Acenaphthylene	152	14.854	14.853	(0.979)	61272	0.46345	0.4635
	41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	16335	0.84668	0.8467
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	303137	4.00000	
	43	3-Nitroaniline	138	15.094	15.093	(0.995)	19274	0.82195	0.8220
	44	Acenaphthene	153	15.233	15.232	(1.004)	38521	0.46977	0.4698
	45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	4220	0.25743	0.2574
	46	Dibenzofuran	168	15.565	15.565	(1.026)	56248	0.45742	0.4574
	47	4-Nitrophenol	109	15.442	15.426	(1.018)	6510	0.57970	0.5797
	48	2,4-Dinitrotoluene	165	15.612	15.619	(1.029)	20854	0.78782	0.7878
	50	Diethylphthalate	149	16.130	16.137	(1.063)	62182	0.53514	0.5351
	49	Fluorene	166	16.276	16.276	(1.073)	60475	0.46230	0.4623
	51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	27044	0.42227	0.4223
	52	4-Nitroaniline	138	16.361	16.361	(1.078)	25291	0.89513	0.8951
	53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	16406	0.76869	0.7687
	54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	39335	0.45129	0.4513
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	7383	0.51904	0.5190
	56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	14181	0.42967	0.4297
	57	Hexachlorobenzene	284	17.596	17.595	(0.966)	16055	0.44328	0.4433
	58	Pentachlorophenol	266	17.960	17.952	(0.986)	1753	0.11176	0.1118
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	507941	4.00000	
	60	Phenanthrene	178	18.261	18.261	(1.003)	60670	0.45811	0.4581
	61	Anthracene	178	18.354	18.354	(1.008)	58084	0.45942	0.4594
	62	Carbazole	167	18.687	18.687	(1.026)	56466	0.46199	0.4620
	63	Di-n-butylphthalate	149	19.484	19.484	(1.070)	66302	0.47946	0.4795
	64	Fluoranthene	202	20.652	20.652	(0.888)	60359	0.48654	0.4865
	65	Pyrene	202	21.078	21.077	(0.906)	63331	0.48553	0.4855
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	43603	0.47145	0.4714
	67	Butylbenzylphthalate	149	22.285	22.285	(0.958)	27814	0.56465	0.5646
	68	Benzo(a)anthracene	228	23.246	23.245	(0.999)	54488	0.46684	0.4668
*	69	Chrysene-d12	240	23.269	23.268	(1.000)	385291	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	55295	1.54759	1.548
	71	Chrysene	228	23.315	23.315	(1.002)	51625	0.46826	0.4683
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	36932	0.48334	0.4833
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	688020	4.00000	
	73	Di-n-octylphthalate	149	24.306	24.306	(1.000)	76829	0.46520	0.4652
	74	Benzo(b)fluoranthene	252	25.127	25.126	(0.970)	48970	0.43157	0.4316
	75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	52002	0.45028	0.4503
	76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	45597	0.48340	0.4834
*	77	Perylene-d12	264	25.901	25.901	(1.000)	361053	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.559	28.567	(1.103)	50172	0.46790	0.4679
	79	Dibenzo(a,h)anthracene	278	28.575	28.574	(1.103)	41146	0.45156	0.4516
	80	Benzo(g,h,i)perylene	276	29.344	29.351	(1.133)	41583	0.46292	0.4629
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.488	8.487	(0.939)	66741	0.93124	0.9312
	93	Benzidine	184	20.884	20.884	(0.898)	52076	1.10015	1.100
	103	Pyridine	79	4.649	4.633	(0.514)	55953	0.48778	0.4878
	105	1-methylnaphthalene	142	13.205	13.205	(1.145)	46739	0.43664	0.4366
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.593	16.592	(1.094)	61713	0.54821	0.5482

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.173	25.173	(0.972)	97248	0.88649	0.8865
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	5976	0.27970	0.2797

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010603.D
Lab Smp Id: SLA0068-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	163613	21.99
27 Naphthalene-d8	499117	249559	998234	617145	23.65
42 Acenaphthene-d10	260320	130160	520640	303137	16.45
59 Phenanthrene-d10	432406	216203	864812	507941	17.47
69 Chrysene-d12	317887	158944	635774	385291	21.20
134 Di-n-octylphthala	664061	332031	1328122	688020	3.61
77 Perylene-d12	313716	156858	627432	361053	15.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	-0.06
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.27	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010603.D

Lab ID: SLA0068-LCV1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 12:48

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.958	-0.0074	Benzoic acid

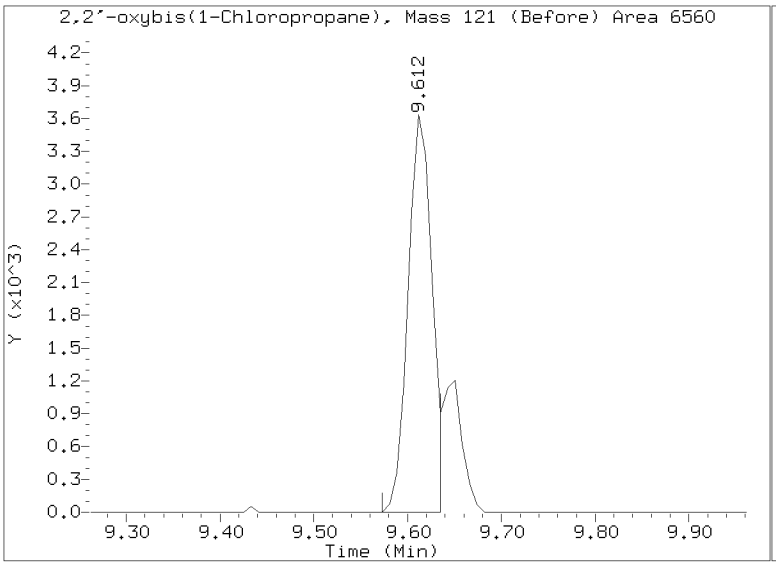
RRT check based on Ccal File: NT1423010602.D

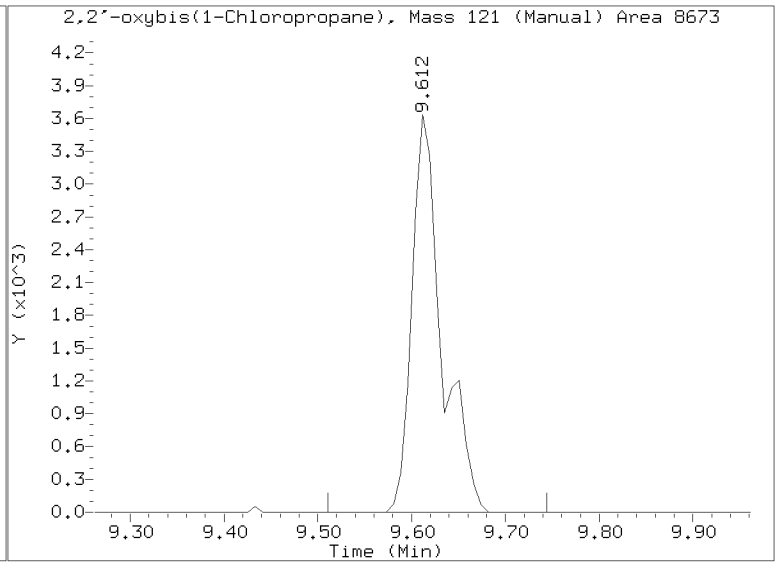
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010603.D
Injection Date: 06-JAN-2023 12:48
Lab ID:SLA0068-LCV1 Client ID:
Report Date: 01/09/2023 15:25





APPROVED

By Deenay Dunmore at 3:35 pm, Jan 09, 2023

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV2
Sequence: SLA0068
Standard ID: K011106

ANALYTE	EXPECTED (ug/mL)	FOUND (ug/mL)	% DRIFT	QC LIMIT
Phenol	0.50000	0.4	-27.5	50.00
bis(2-chloroethyl) ether	0.50000	0.5	-4.9	50.00
2-Chlorophenol	0.50000	0.4	-16.0	50.00
1,3-Dichlorobenzene	0.50000	0.5	-5.8	50.00
1,4-Dichlorobenzene	0.50000	0.5	-7.5	50.00
1,2-Dichlorobenzene	0.50000	0.5	-7.7	50.00
Benzyl Alcohol	0.50000	0.6	25.3	50.00
2,2'-Oxybis(1-chloropropane)	0.50000	0.5	-8.0	50.00
2-Methylphenol	0.50000	0.4	-21.3	50.00
Hexachloroethane	0.50000	0.5	-7.0	50.00
N-Nitroso-di-n-Propylamine	0.50000	0.5	3.1	50.00
4-Methylphenol	0.50000	0.3	-34.0	50.00
Nitrobenzene	0.50000	0.5	-1.5	50.00
Isophorone	0.50000	0.5	-3.1	50.00
2-Nitrophenol	0.50000	0.4	-14.0	50.00
2,4-Dimethylphenol	1.0000	0.7	-28.5	50.00
Bis(2-Chloroethoxy)methane	0.50000	0.5	-7.5	50.00
2,4-Dichlorophenol	1.0000	0.6	-38.0	50.00
1,2,4-Trichlorobenzene	0.50000	0.5	9.6	50.00
Naphthalene	0.50000	0.5	-6.1	50.00
Benzoic acid	2.0000	0.1	-94.8 *	50.00
4-Chloroaniline	1.0000	0.8	-19.0	50.00
Hexachlorobutadiene	0.50000	0.6	14.9	50.00
4-Chloro-3-Methylphenol	1.0000	0.6	-41.6	50.00
2-Methylnaphthalene	0.50000	0.4	-13.9	50.00
Hexachlorocyclopentadiene	1.0000	0.1	-89.6 *	50.00
2,4,6-Trichlorophenol	1.0000	0.6	-36.4	50.00
2,4,5-Trichlorophenol	1.0000	0.5	-47.6	50.00
2-Chloronaphthalene	0.50000	0.5	-6.2	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV2
Sequence: SLA0068
Standard ID: K011106

2-Nitroaniline	1.0000	0.9	-12.4	50.00
Acenaphthylene	0.50000	0.5	-8.3	50.00
Dimethylphthalate	0.50000	0.5	-3.0	50.00
2,6-Dinitrotoluene	1.0000	0.8	-17.1	50.00
Acenaphthene	0.50000	0.5	-6.8	50.00
3-Nitroaniline	1.0000	0.8	-18.2	50.00
2,4-Dinitrophenol	2.0000	0.05	-97.5 *	50.00
Dibenzofuran	0.50000	0.5	-9.5	50.00
4-Nitrophenol	1.0000	0.3	-74.1 *	50.00
2,4-Dinitrotoluene	1.0000	0.8	-24.8	50.00
Fluorene	0.50000	0.5	-6.6	50.00
4-Chlorophenylphenyl ether	0.50000	0.4	-15.9	50.00
Diethyl phthalate	0.50000	0.5	6.0	50.00
4-Nitroaniline	1.0000	0.8	-24.6	50.00
4,6-Dinitro-2-methylphenol	2.0000	0.5	-74.8 *	50.00
N-Nitrosodiphenylamine	0.50000	0.4	-11.1	50.00
4-Bromophenyl phenyl ether	0.50000	0.4	-13.6	50.00
Hexachlorobenzene	0.50000	0.5	-9.1	50.00
Pentachlorophenol	1.0000	0.08	-92.3 *	50.00
Phenanthrene	0.50000	0.5	-9.6	50.00
Anthracene	0.50000	0.5	-7.8	50.00
Carbazole	0.50000	0.4	-10.2	50.00
Di-n-Butylphthalate	0.50000	0.5	-4.0	50.00
Fluoranthene	0.50000	0.5	-4.4	50.00
Pyrene	0.50000	0.5	-4.5	50.00
Butylbenzylphthalate	0.50000	0.6	13.6	50.00
Benzo(a)anthracene	0.50000	0.5	-7.6	50.00
3,3'-Dichlorobenzidine	1.5000	1.5	-2.0	50.00
Chrysene	0.50000	0.5	-8.2	50.00
bis(2-Ethylhexyl)phthalate	0.50000	0.5	1.2	50.00
Di-n-Octylphthalate	0.50000	0.5	-5.5	50.00

LOW-CONCENTRATION CALIBRATION VERIFICATION
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00066
Laboratory ID: SLA0068-LCV2
Sequence: SLA0068
Standard ID: K011106

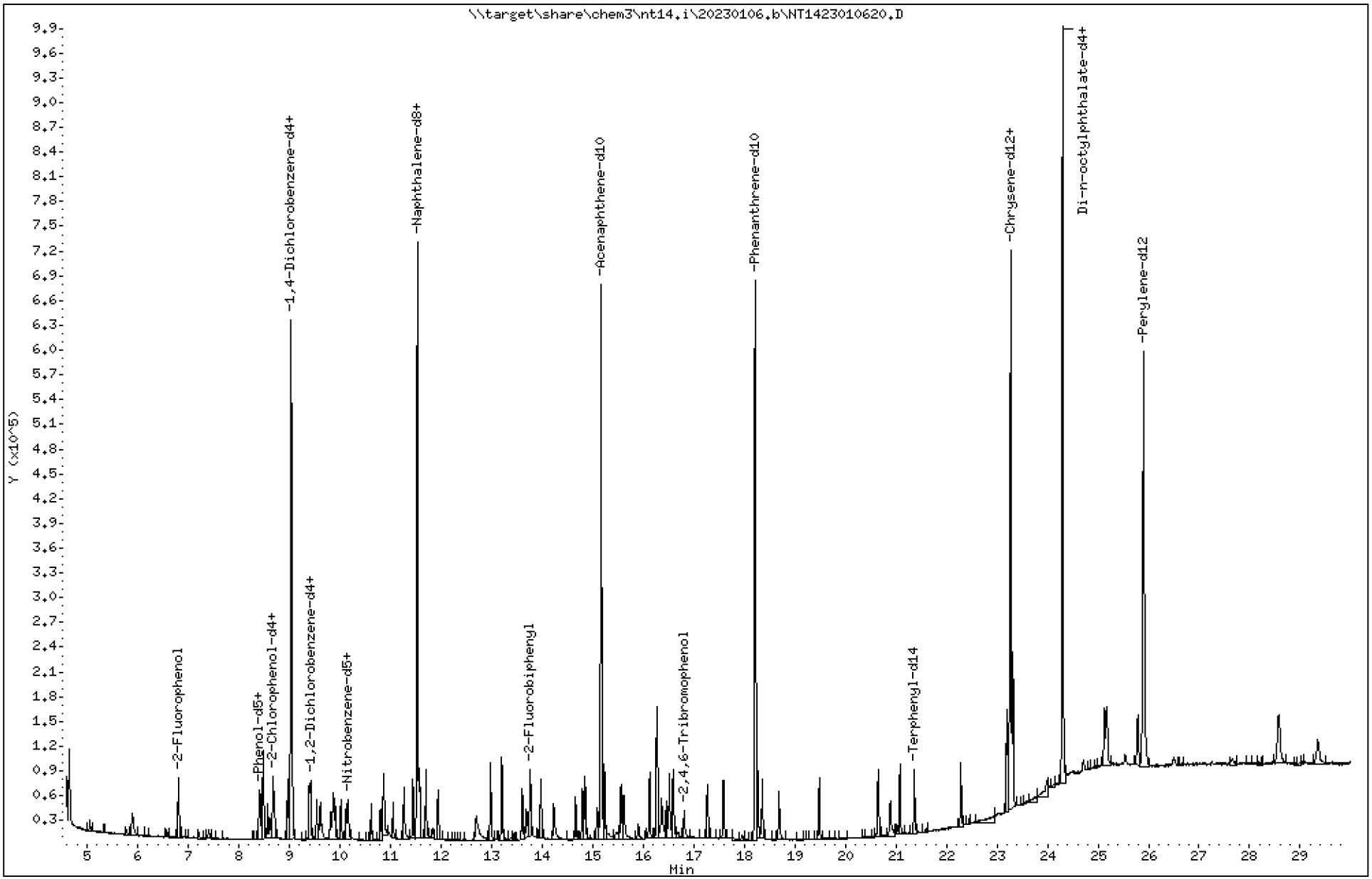
Benzofluoranthenes, Total	1.0000	0.9	-13.6	50.00
Benzo(a)pyrene	0.50000	0.5	-4.2	50.00
Indeno(1,2,3-cd)pyrene	0.50000	0.5	-4.7	50.00
Dibenzo(a,h)anthracene	0.50000	0.5	-6.8	50.00
Benzo(g,h,i)perylene	0.50000	0.4	-11.2	50.00
1-Methylnaphthalene	0.50000	0.4	-10.9	50.00
2-Fluorophenol	0.75000	0.637	-15.0	50.00
Phenol-d5	0.75000	0.577	-23.0	50.00
2-Chlorophenol-d4	0.75000	0.644	-14.2	50.00
1,2-Dichlorobenzene-d4	0.50000	0.457	-8.5	50.00
Nitrobenzene-d5	0.50000	0.492	-1.5	50.00
2-Fluorobiphenyl	0.50000	0.459	-8.1	50.00
2,4,6-Tribromophenol	0.75000	0.456	-39.2	50.00
p-Terphenyl-d14	0.50000	0.466	-6.8	50.00

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010620.D
Date : 06-JAN-2023 23:03
Client ID:
Sample Info: SLA0068-LCV2

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

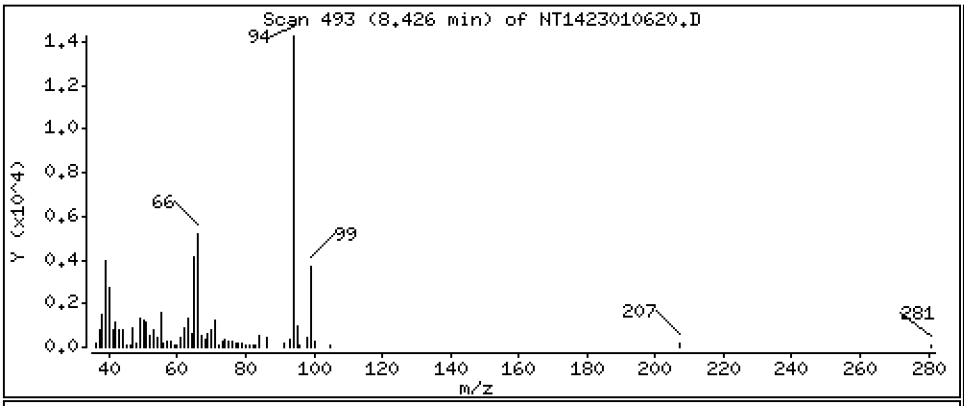
Operator: VTS

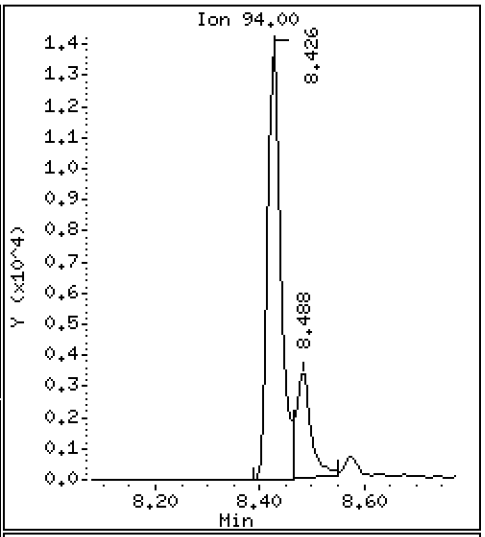
Column phase: ZB-5msi

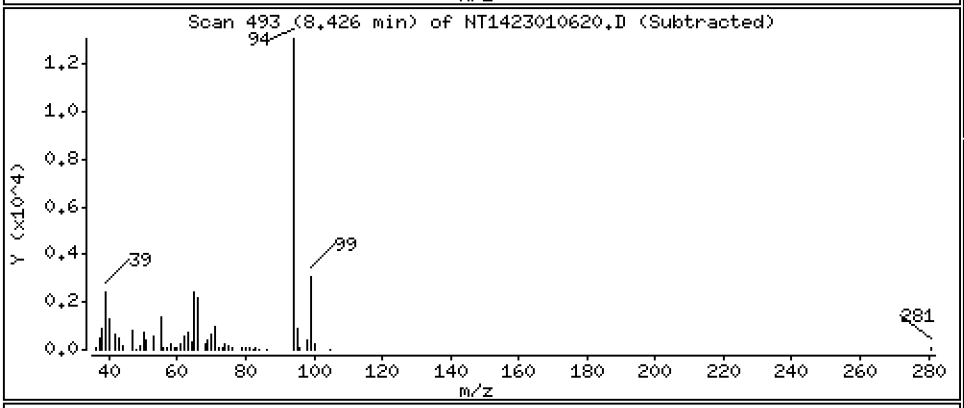
Column diameter: 0.25

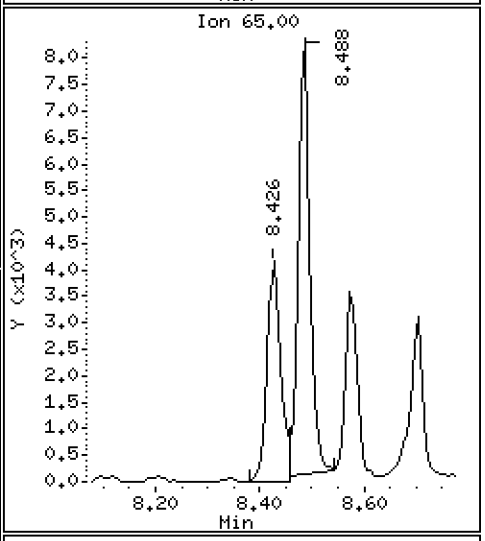
3 Phenol

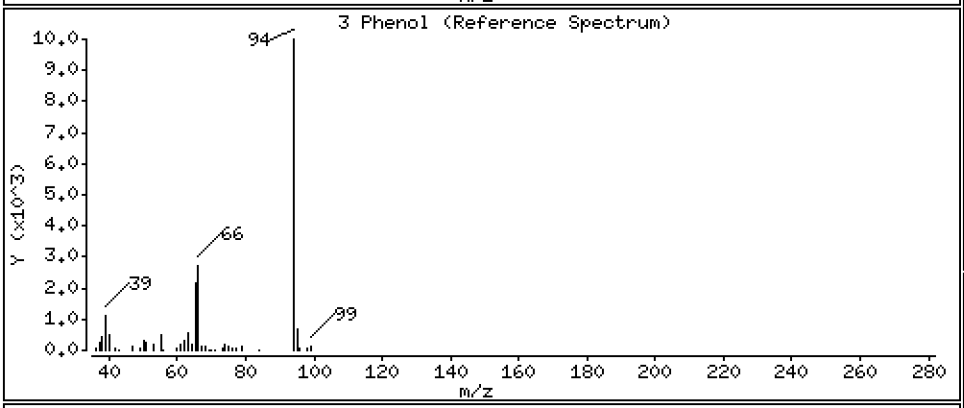
Concentration: 0.3625 ug/mL

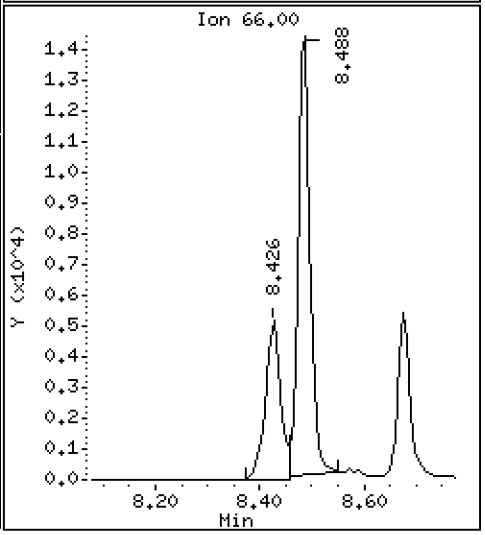


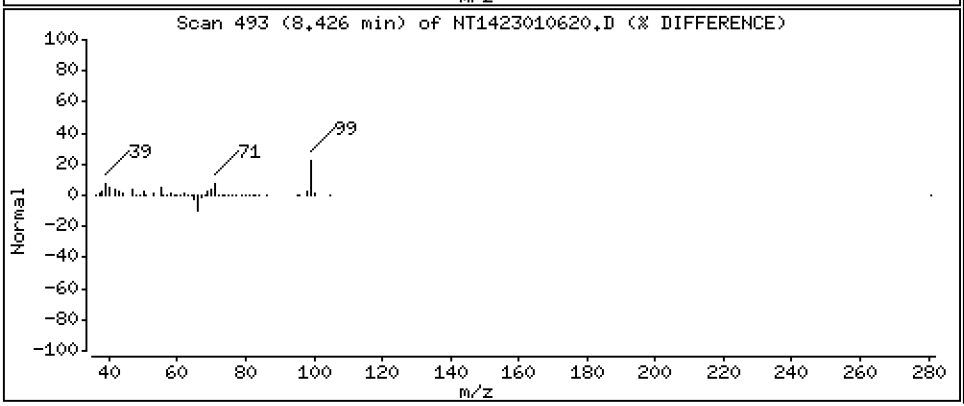












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

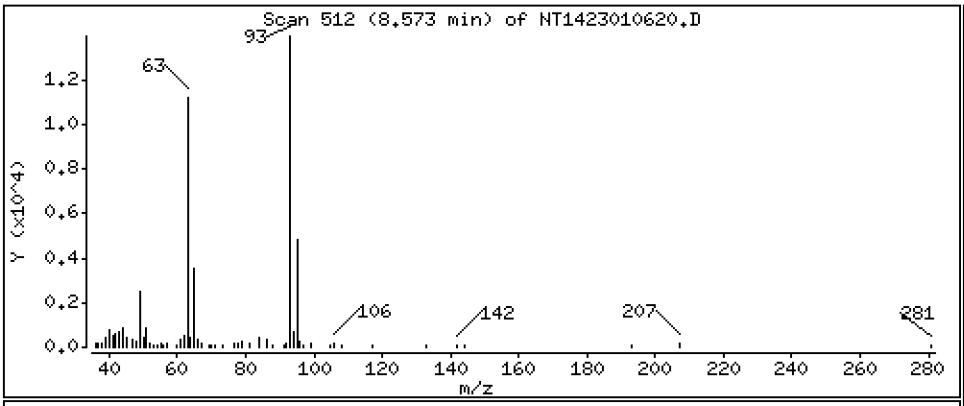
Operator: VTS

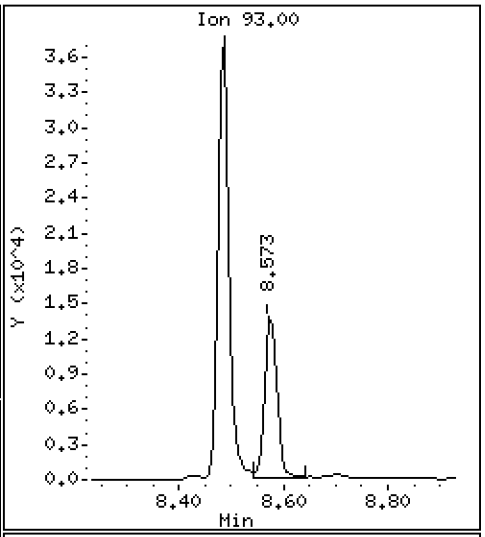
Column phase: ZB-5msi

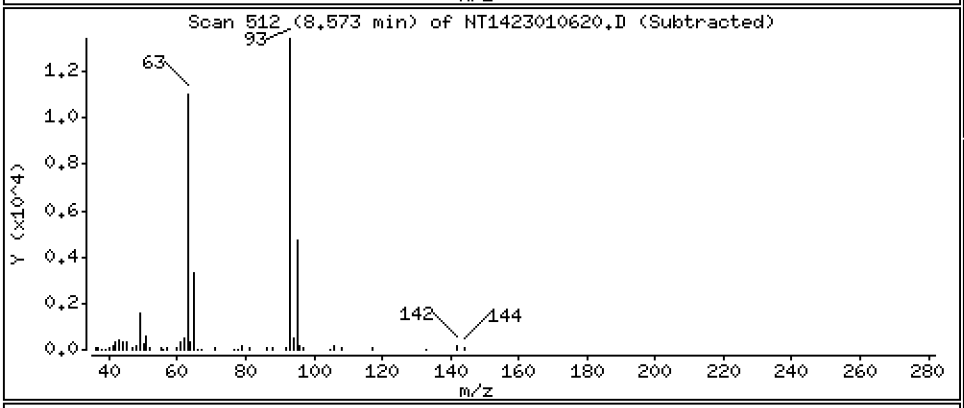
Column diameter: 0.25

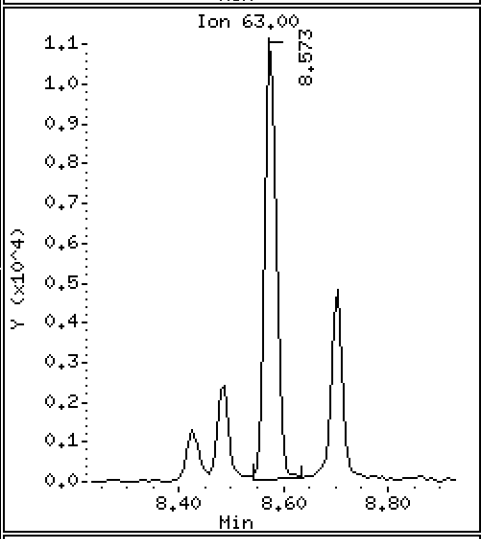
4 Bis(2-Chloroethyl)ether

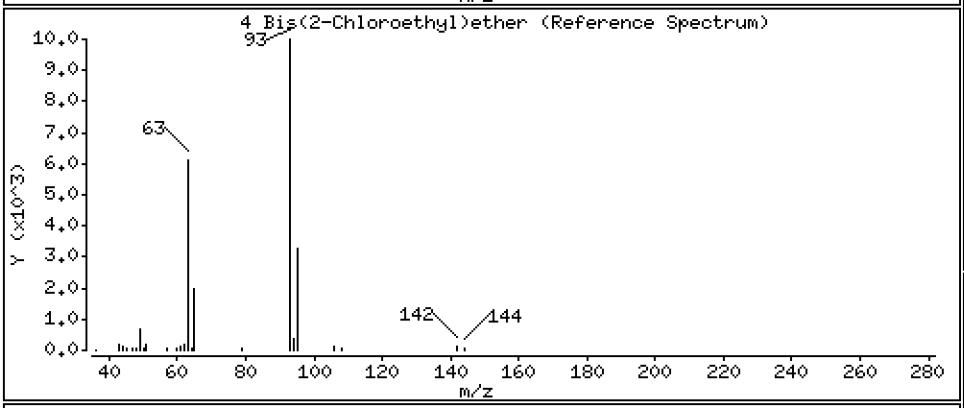
Concentration: 0.4754 ug/mL

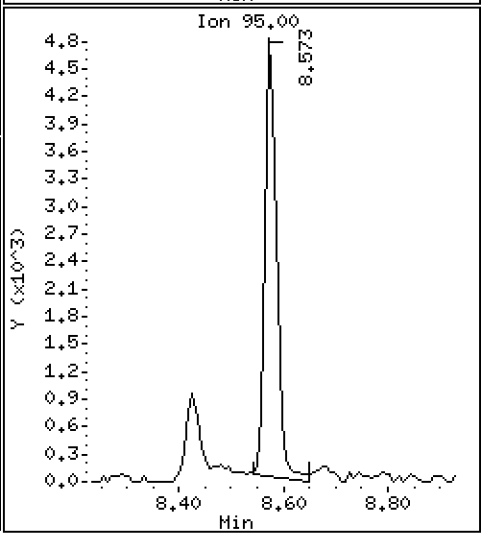


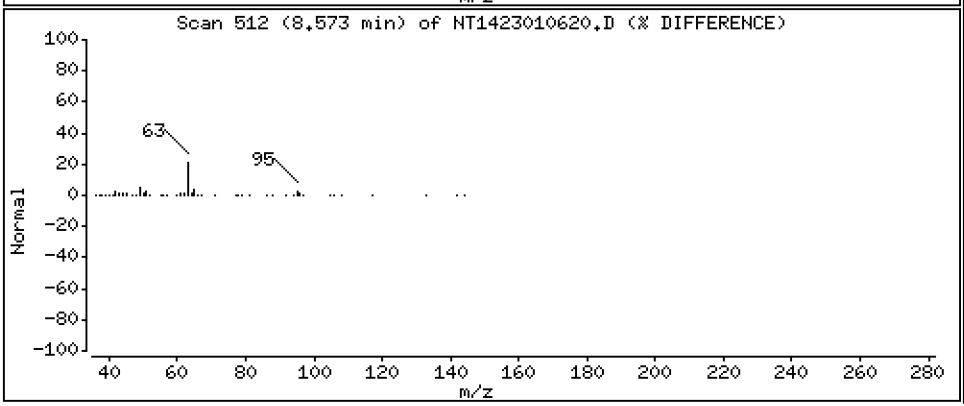












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

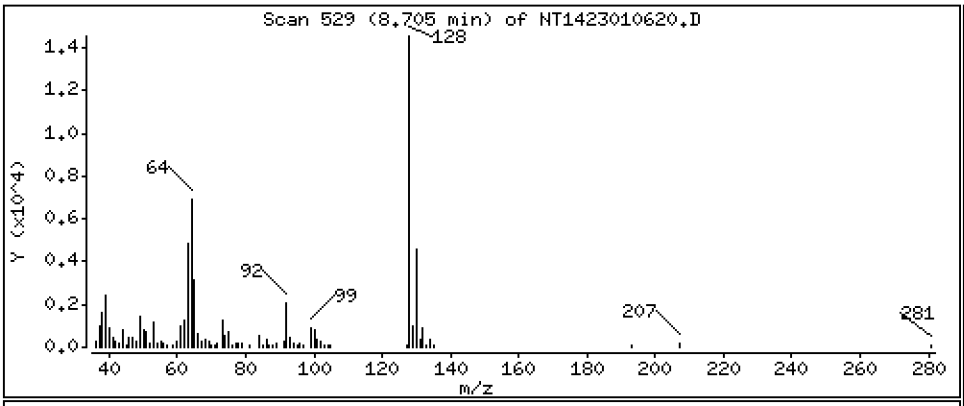
Operator: VTS

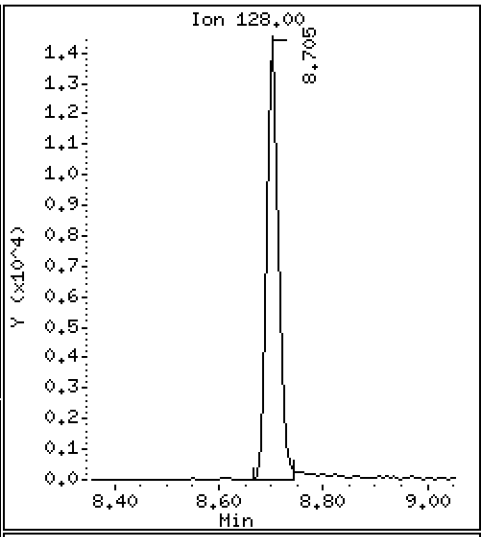
Column phase: ZB-5msi

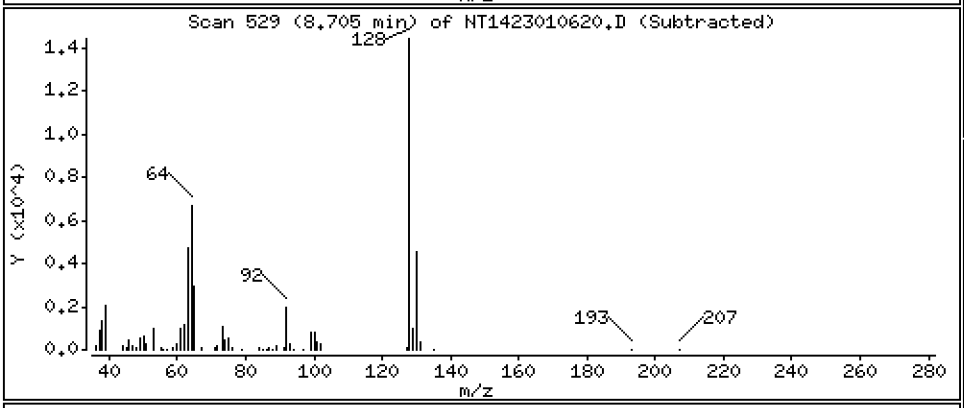
Column diameter: 0.25

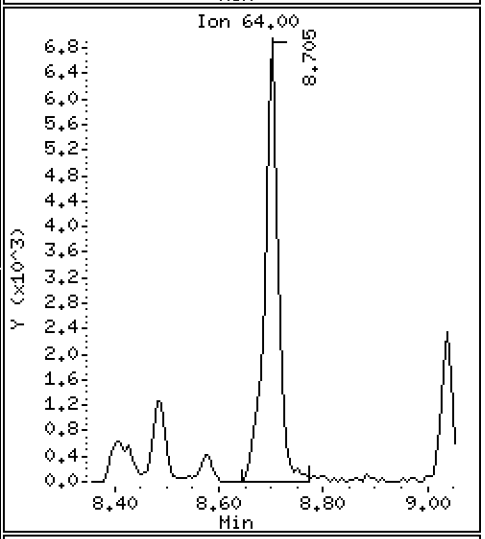
6 2-Chlorophenol

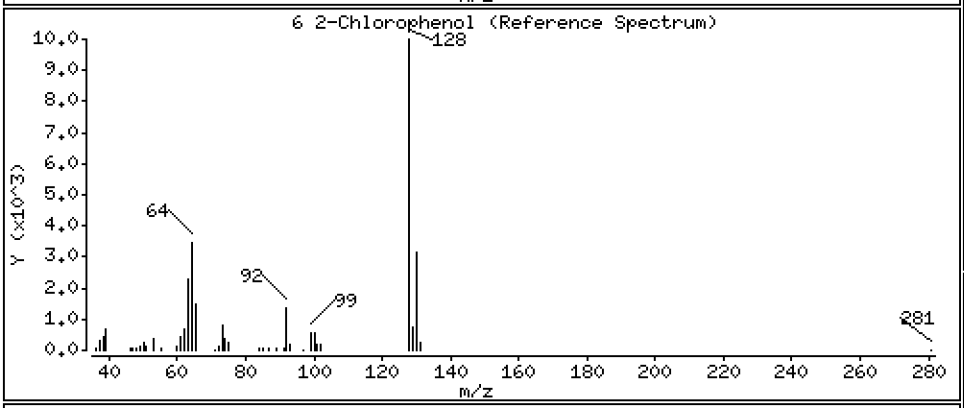
Concentration: 0.4200 ug/mL

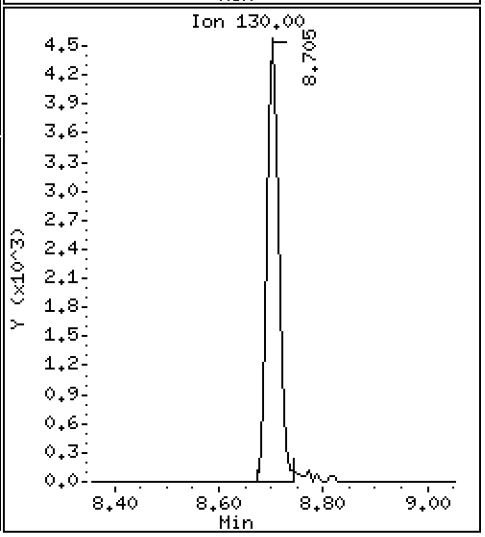


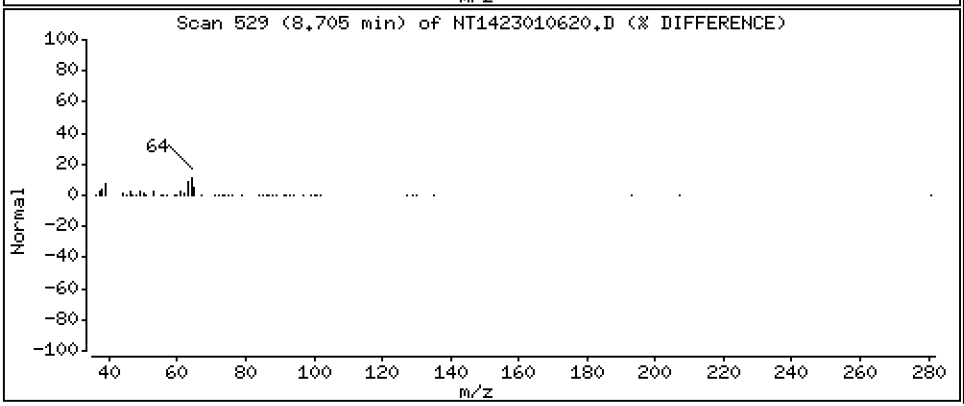












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

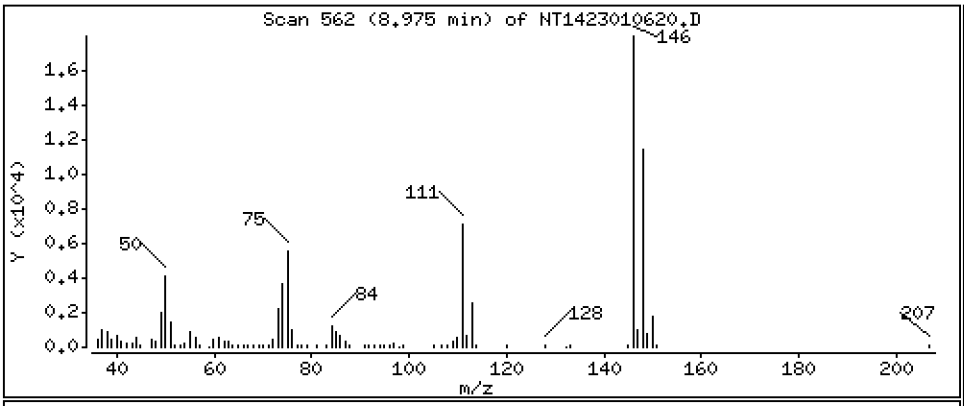
Operator: VTS

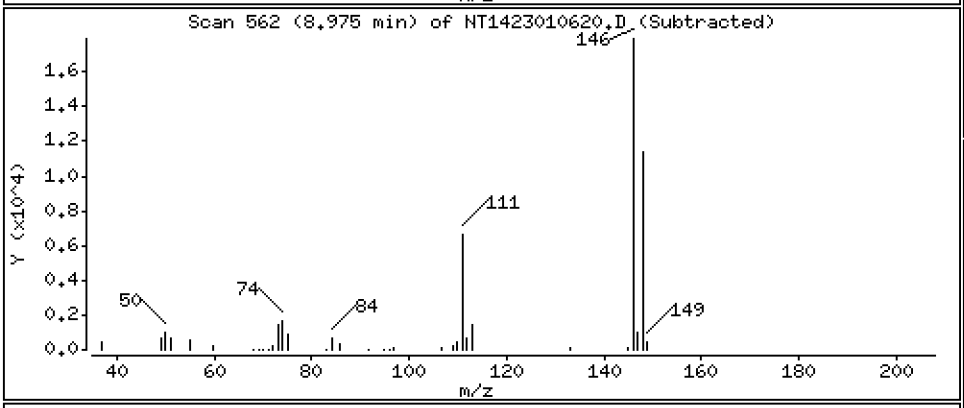
Column phase: ZB-5msi

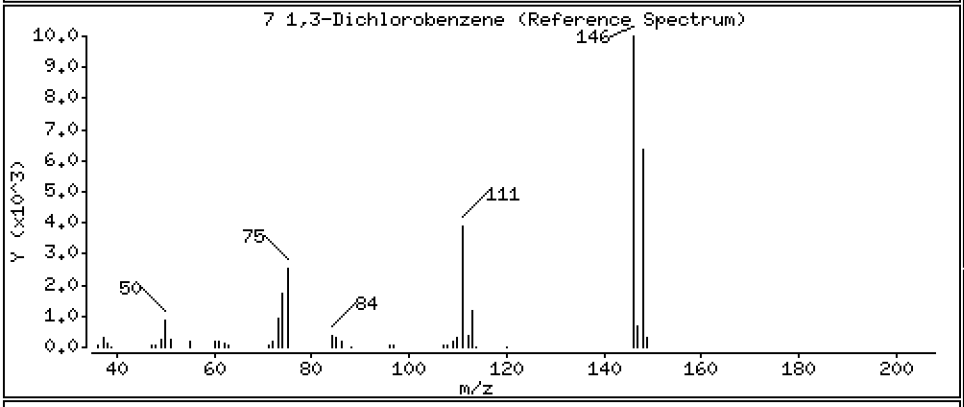
Column diameter: 0.25

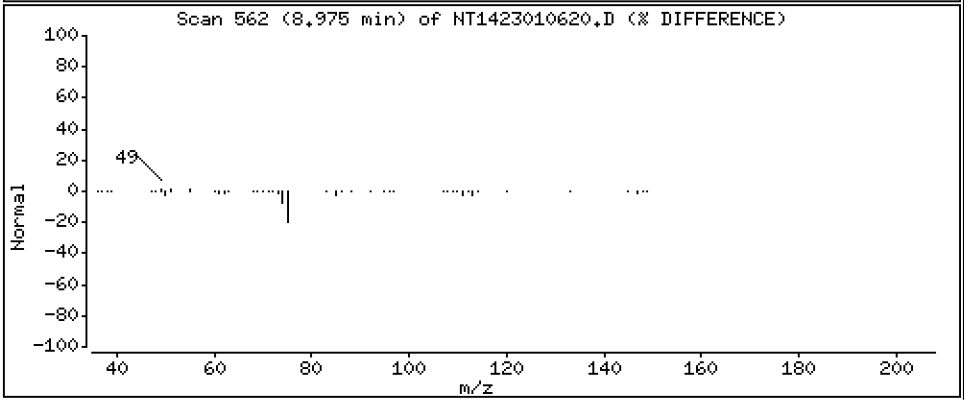
7 1,3-Dichlorobenzene

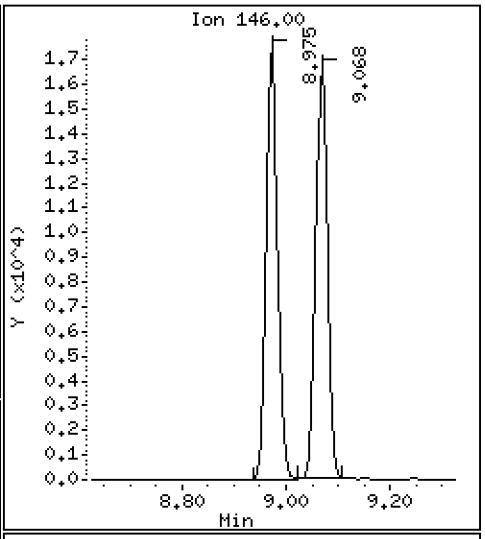
Concentration: 0.4710 ug/mL

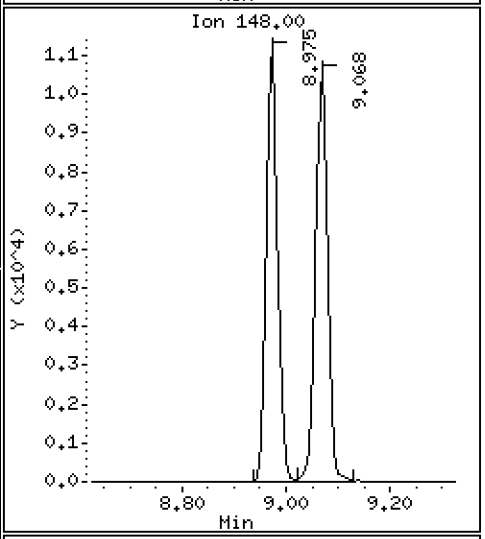


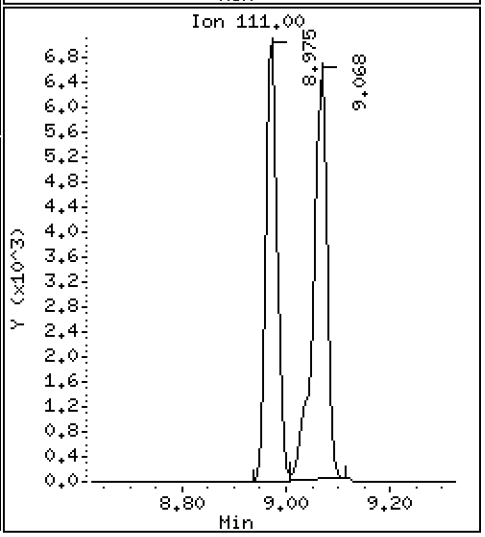












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

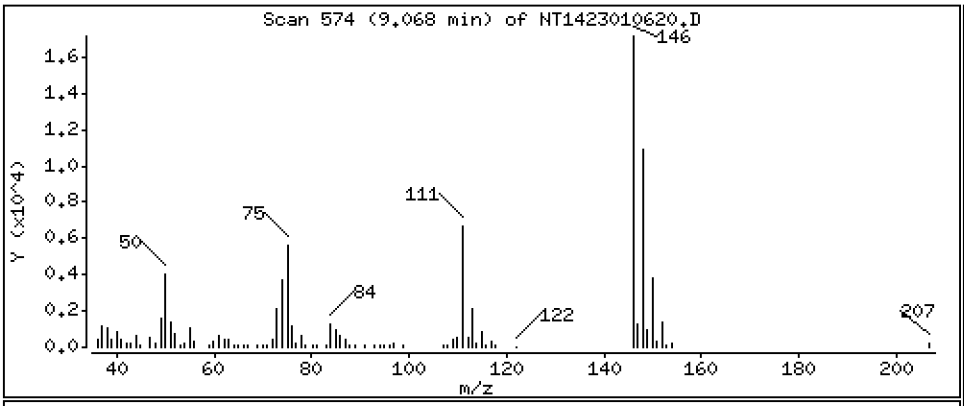
Operator: VTS

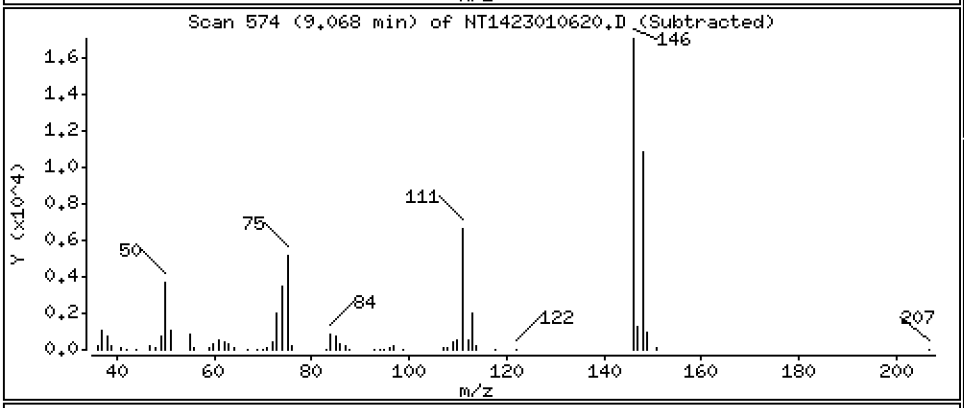
Column phase: ZB-5msi

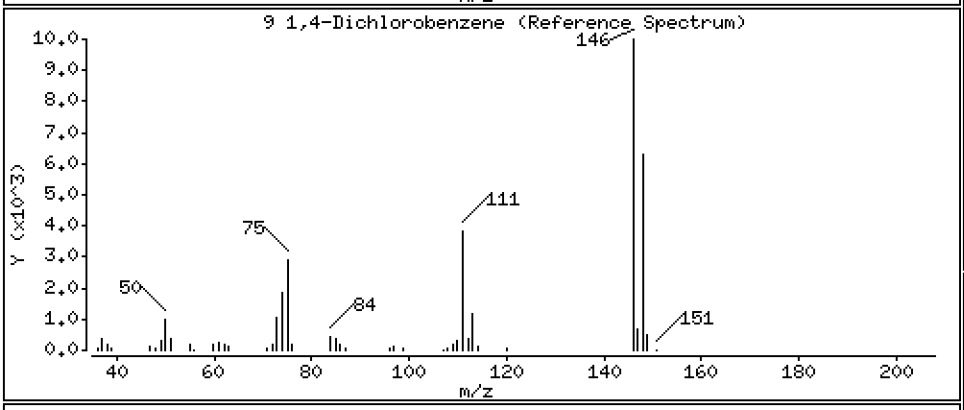
Column diameter: 0.25

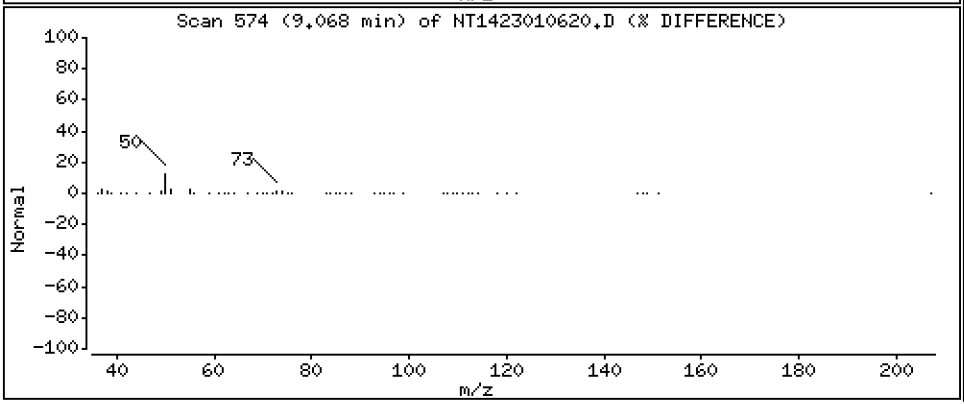
9 1,4-Dichlorobenzene

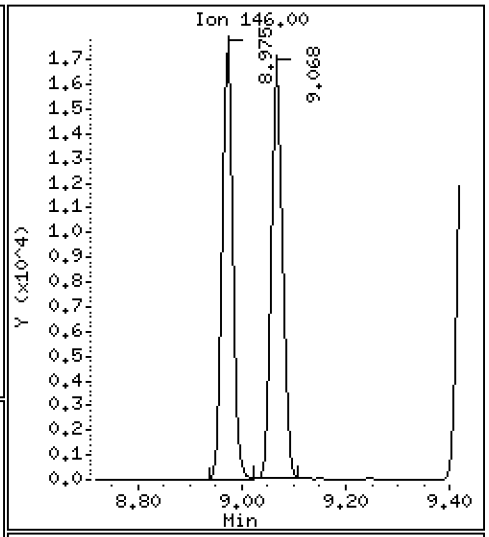
Concentration: 0.4624 ug/mL

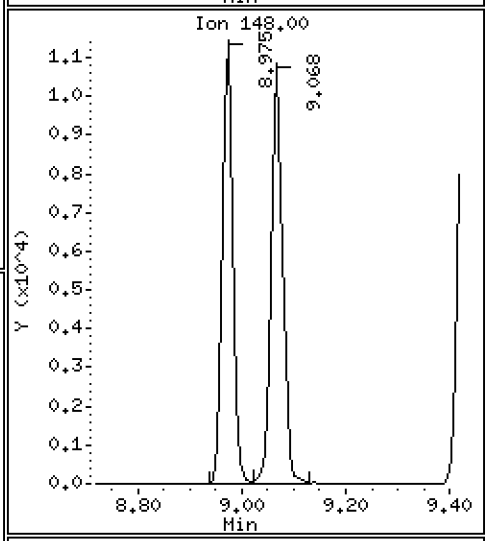


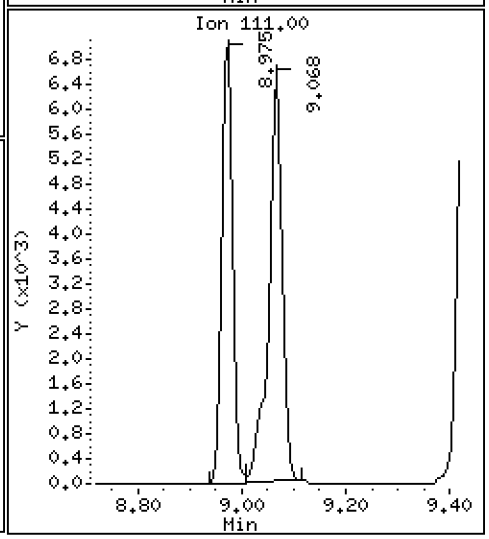












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

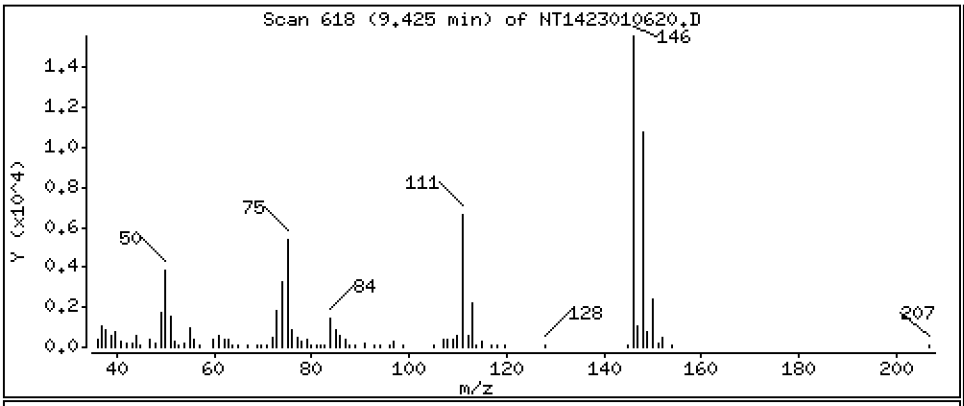
Operator: VTS

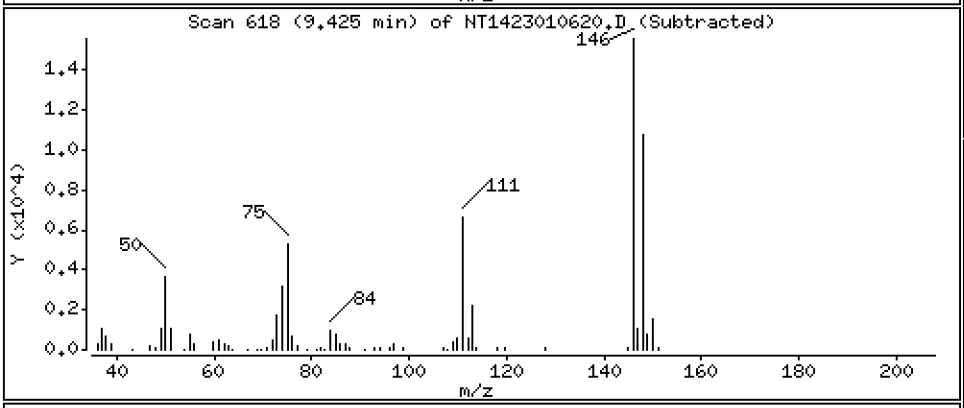
Column phase: ZB-5msi

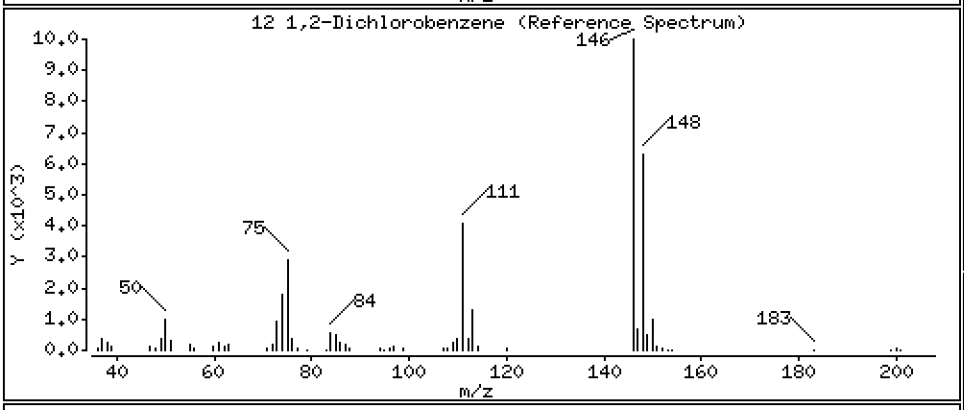
Column diameter: 0.25

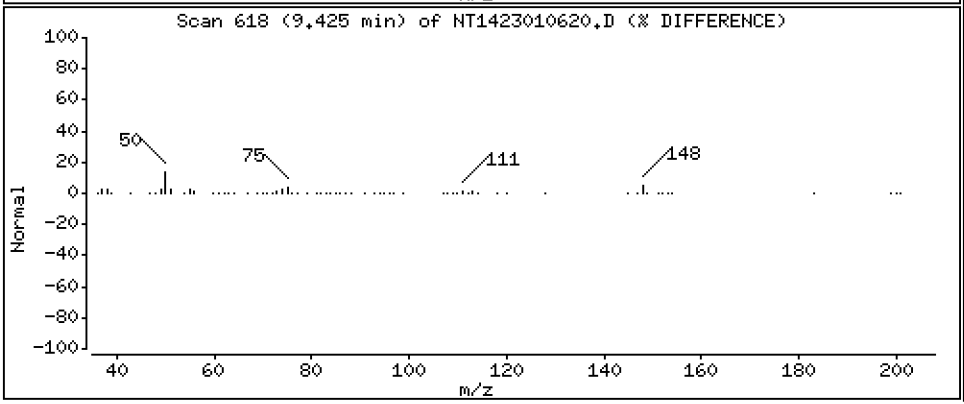
12 1,2-Dichlorobenzene

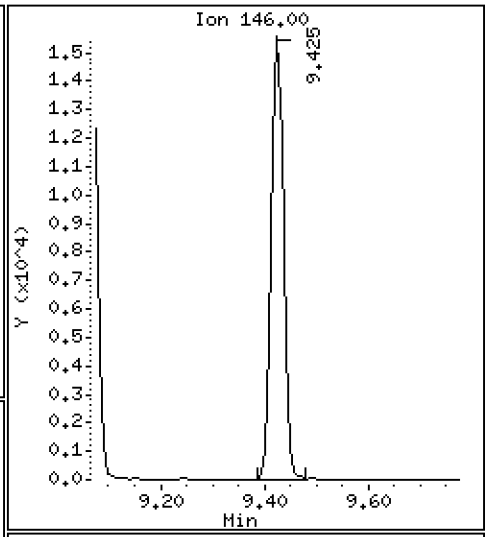
Concentration: 0.4614 ug/mL

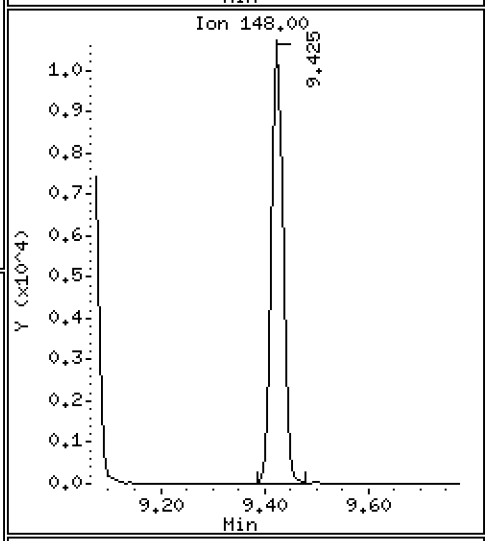


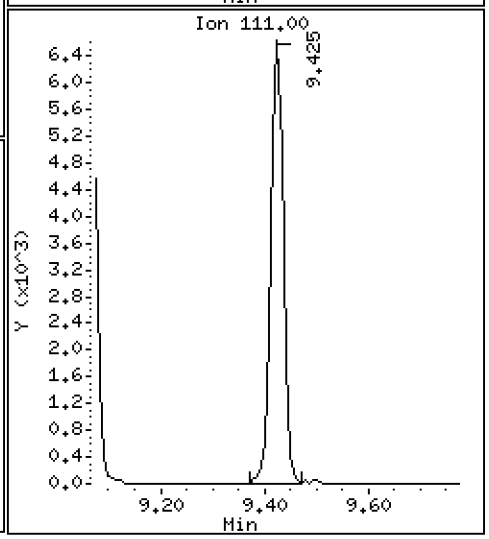












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

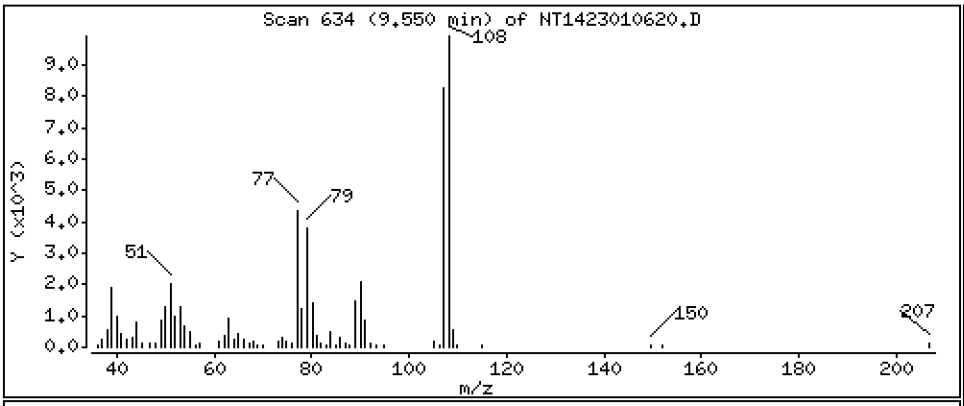
Operator: VTS

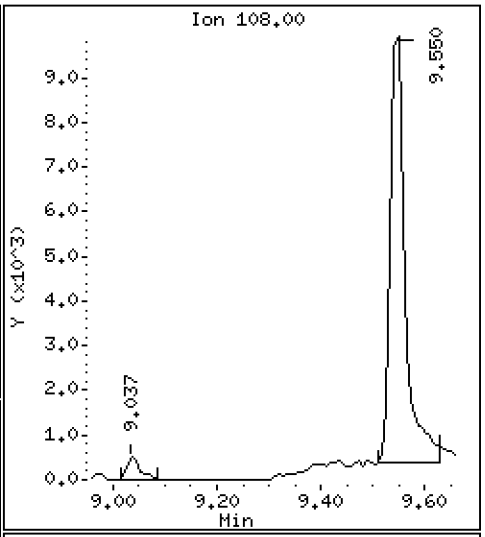
Column phase: ZB-5msi

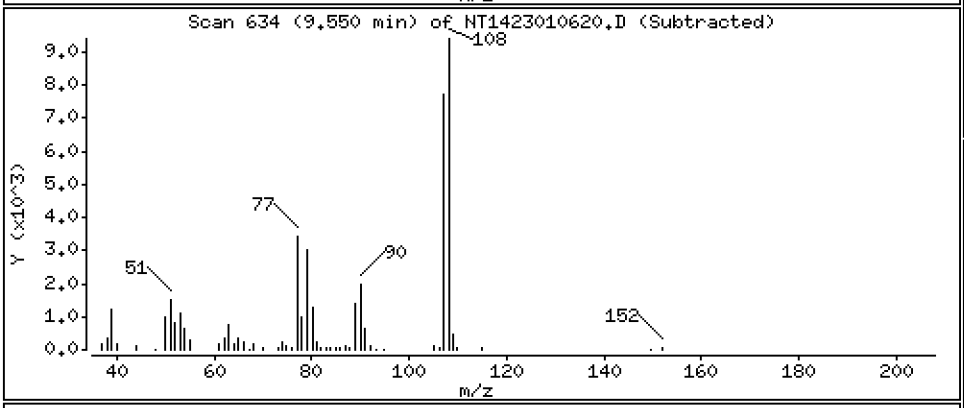
Column diameter: 0.25

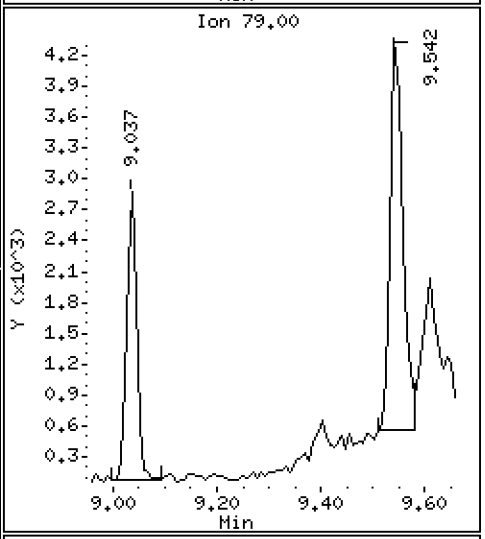
11 Benzyl alcohol

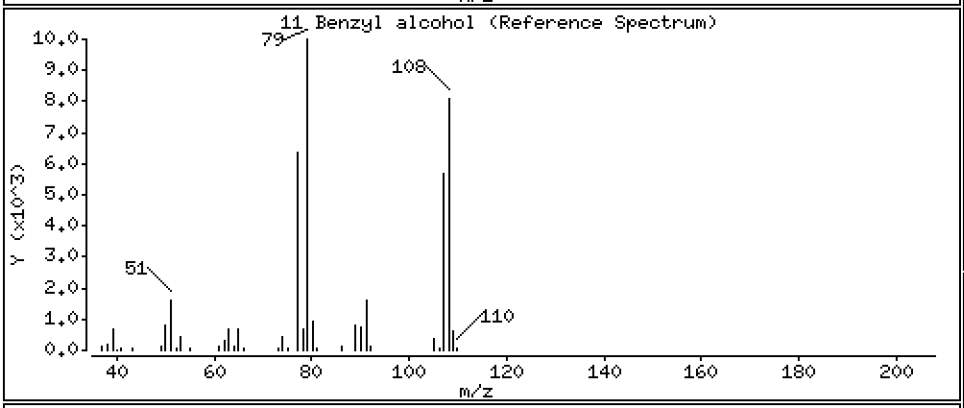
Concentration: 0.6266 ug/mL

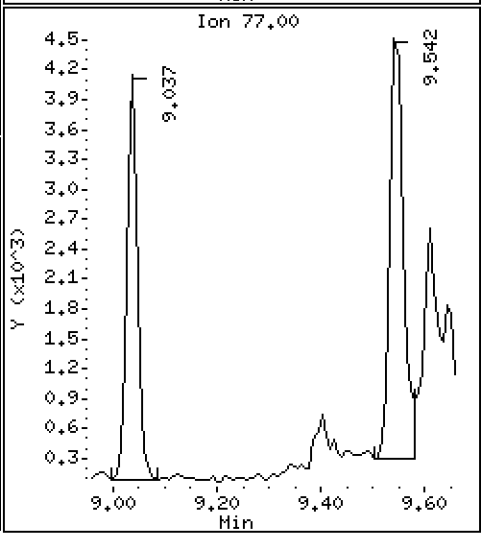


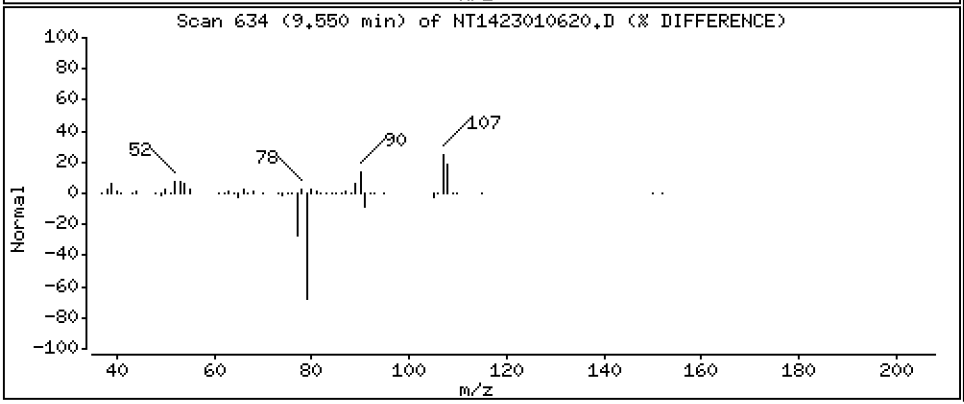












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

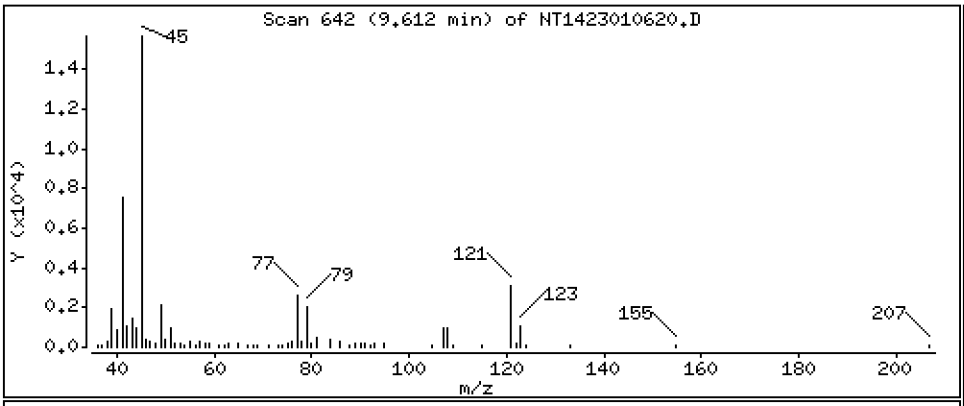
Operator: VTS

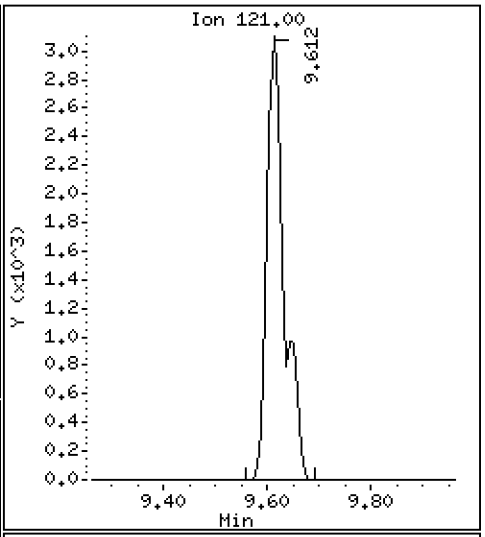
Column phase: ZB-5msi

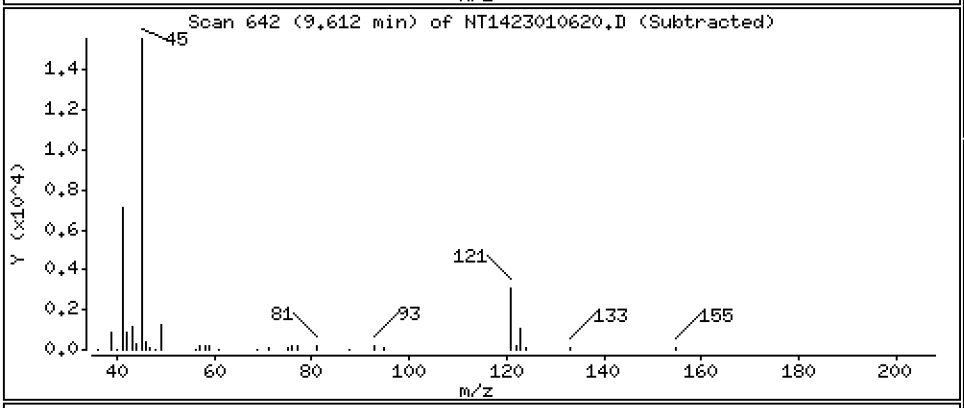
Column diameter: 0.25

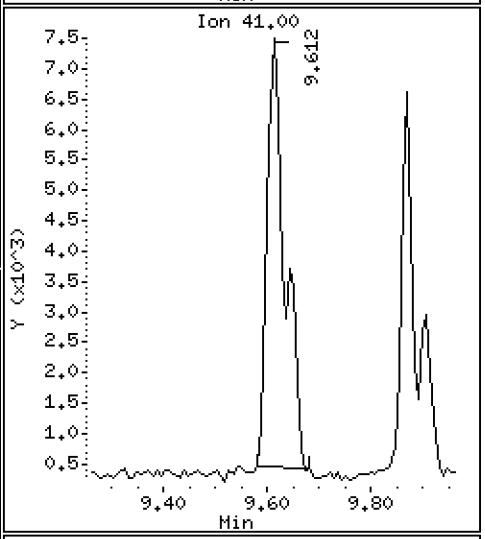
14 2,2'-oxybis(1-Chloropropane)

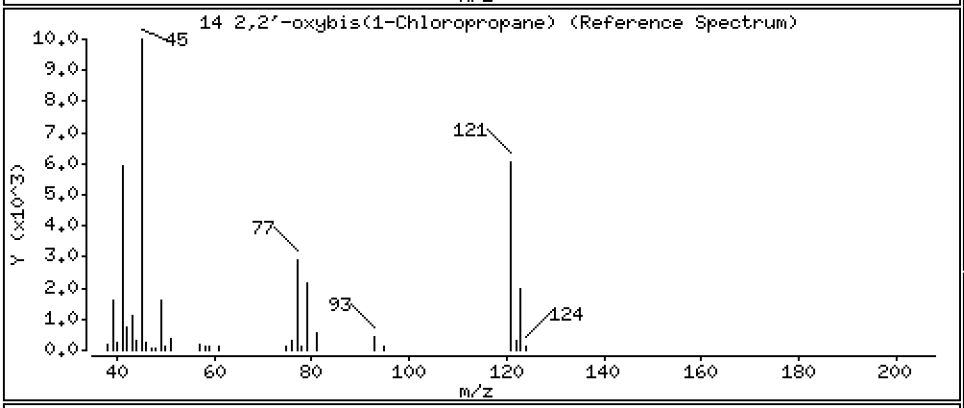
Concentration: 0.4599 ug/mL

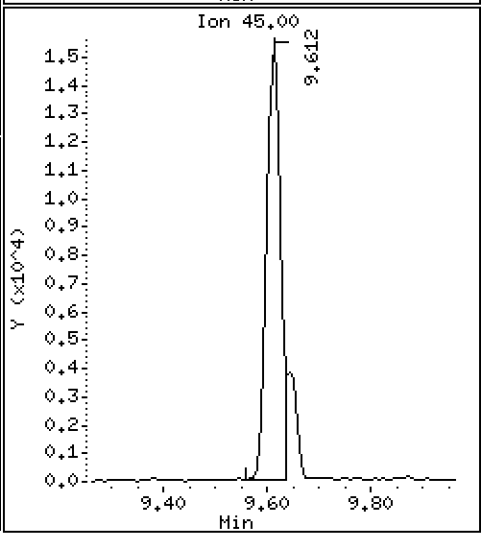


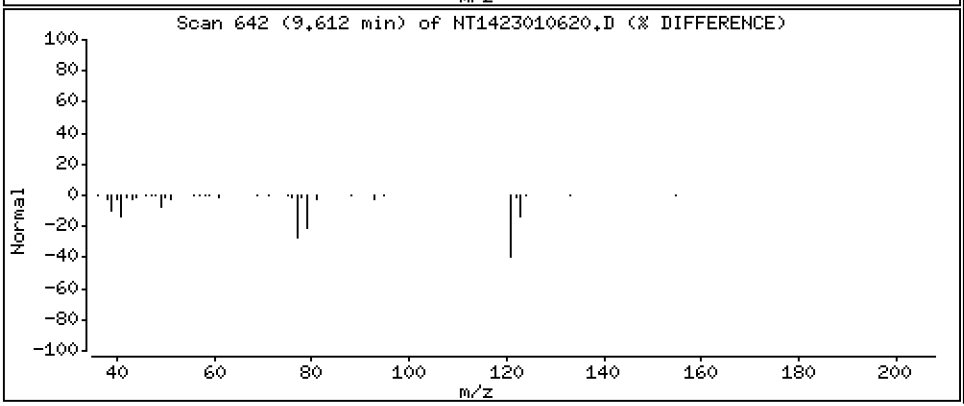












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

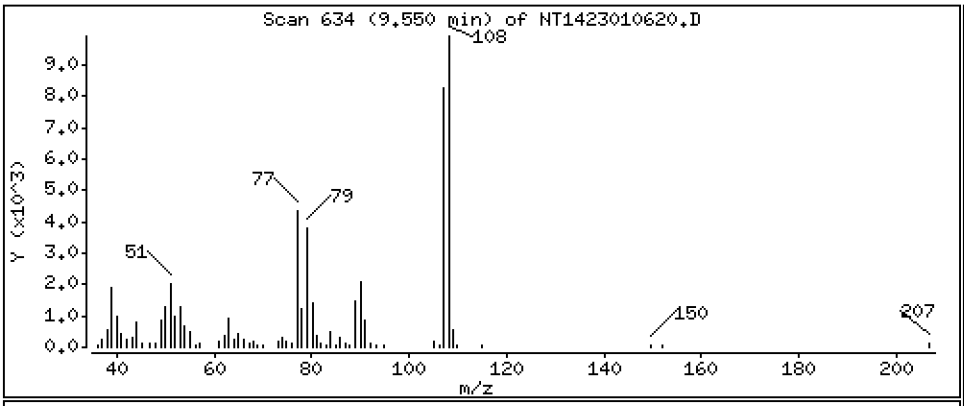
Operator: VTS

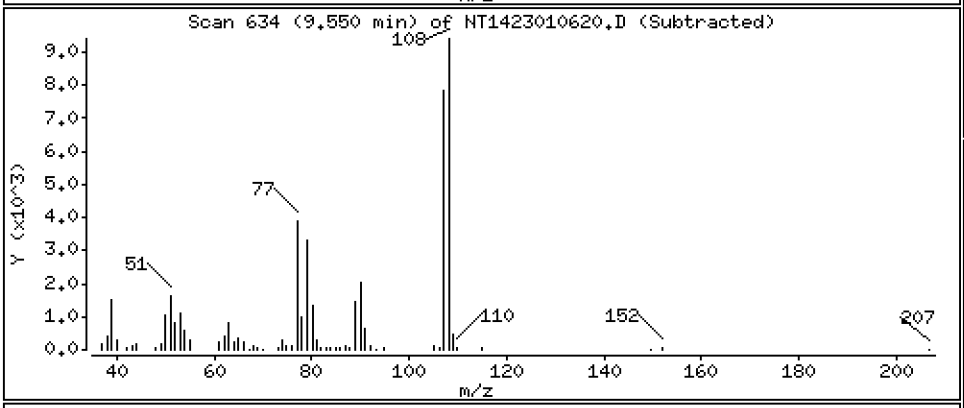
Column phase: ZB-5msi

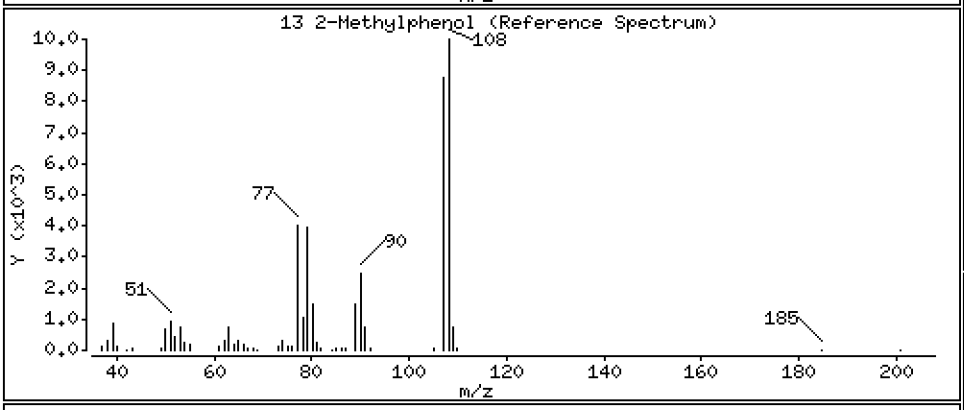
Column diameter: 0.25

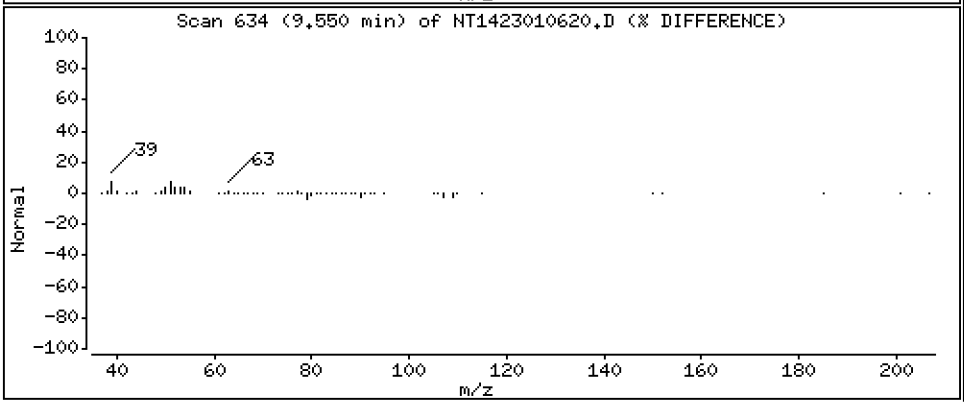
13 2-Methylphenol

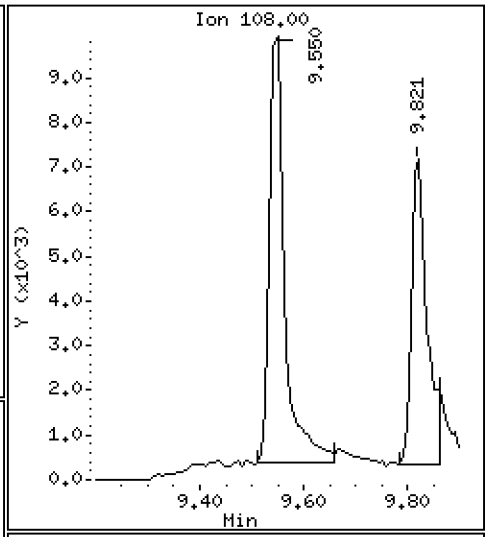
Concentration: 0.3934 ug/mL

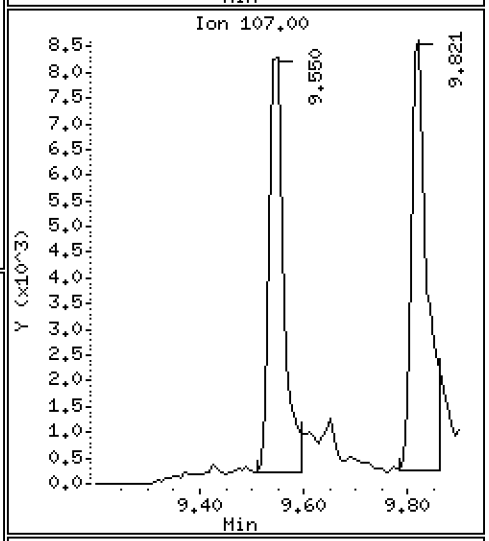


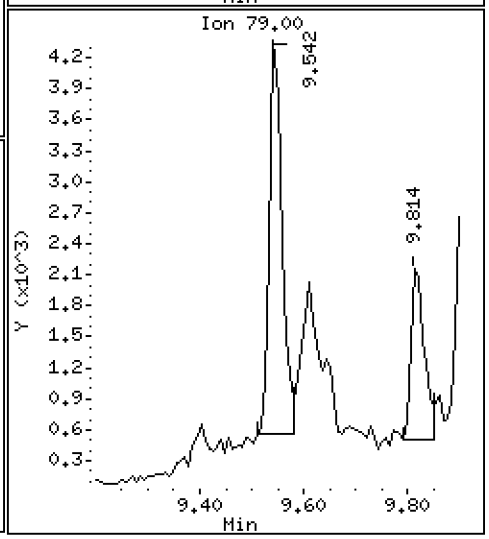












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

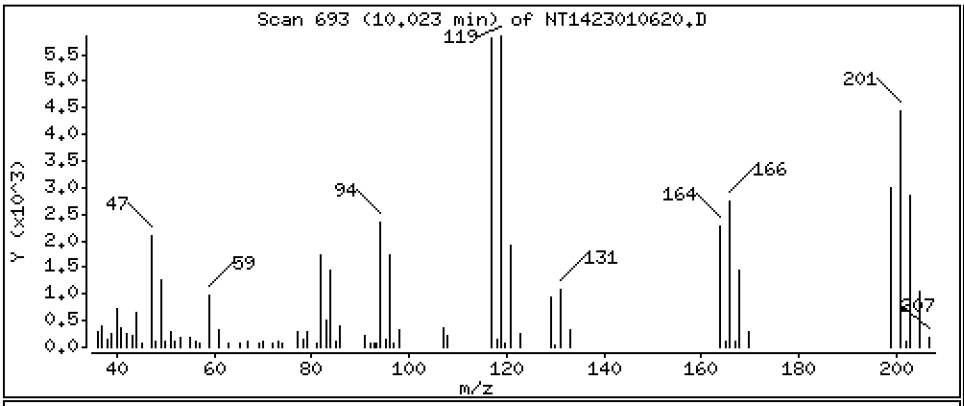
Operator: VTS

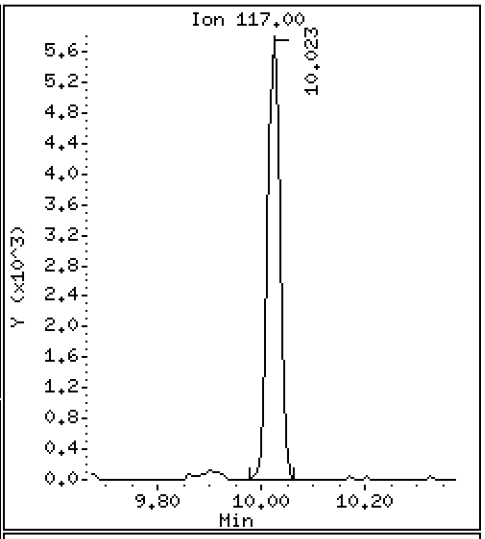
Column phase: ZB-5msi

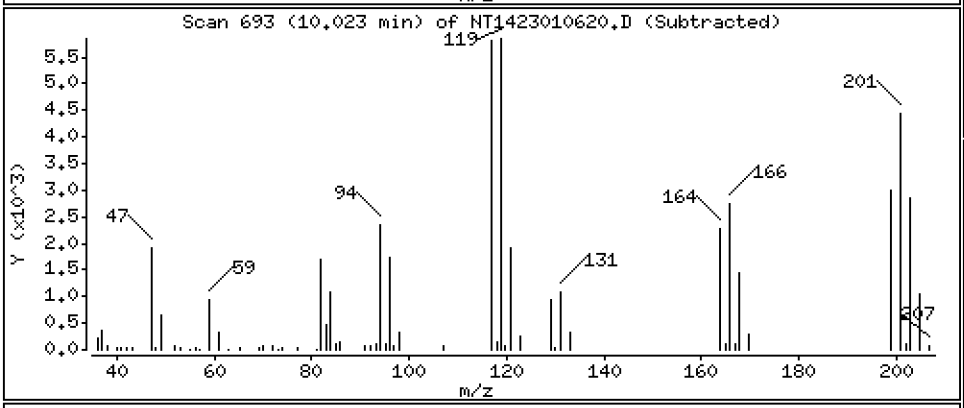
Column diameter: 0.25

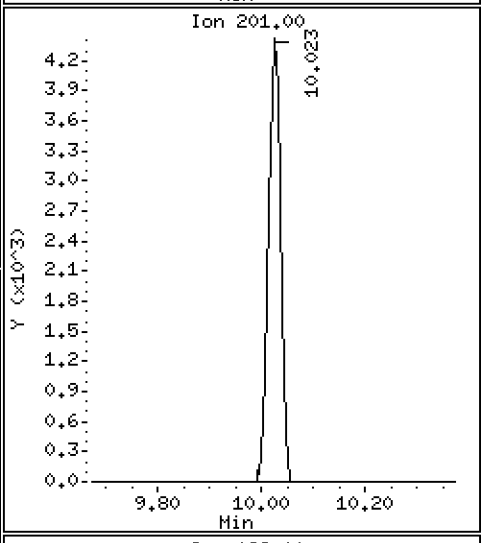
17 Hexachloroethane

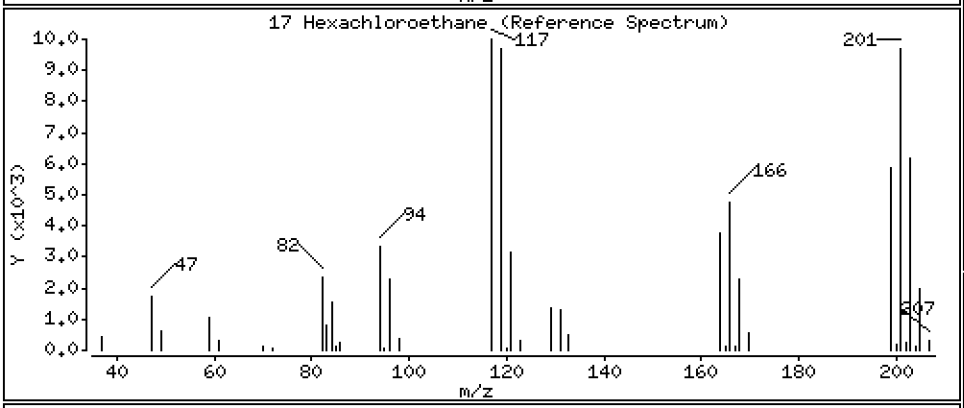
Concentration: 0.4650 ug/mL

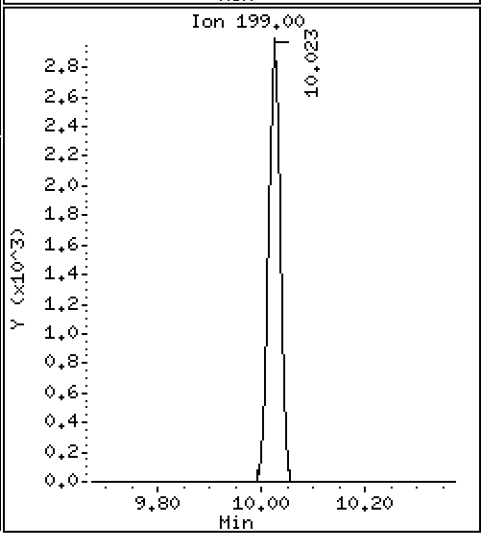


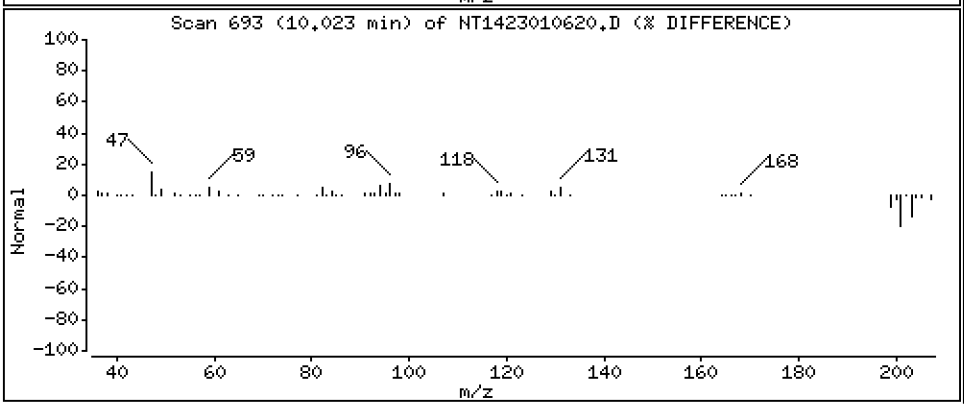












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

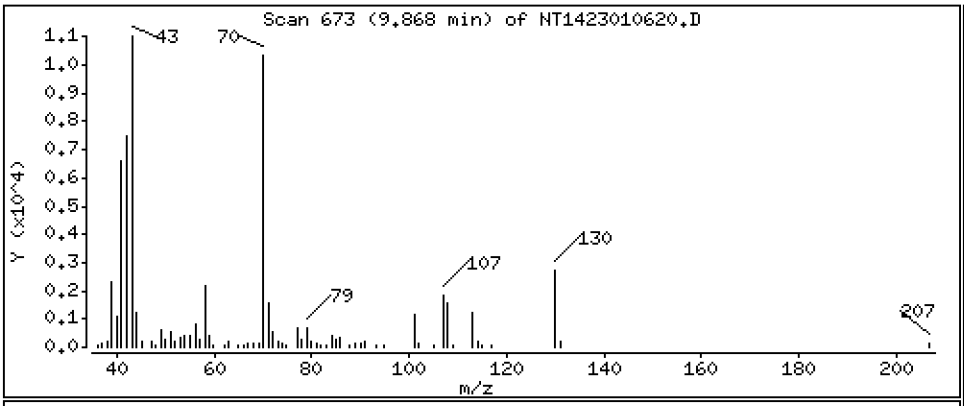
Operator: VTS

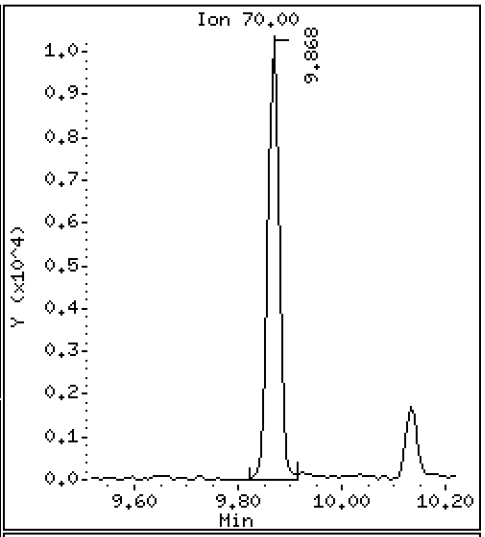
Column phase: ZB-5msi

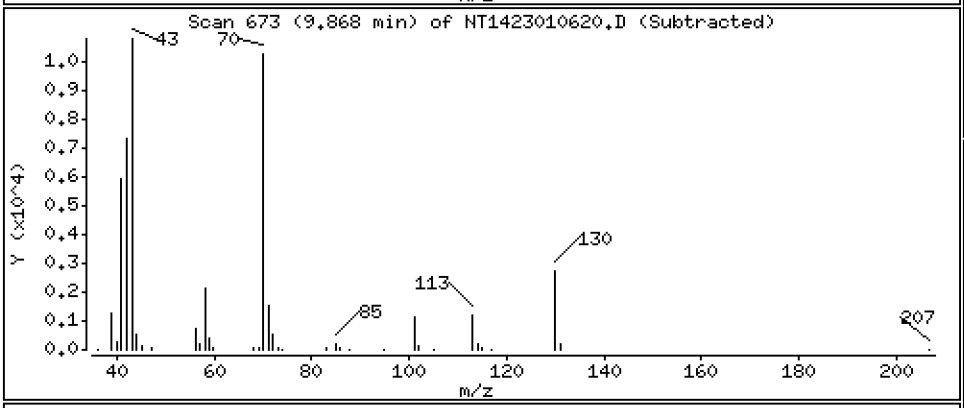
Column diameter: 0.25

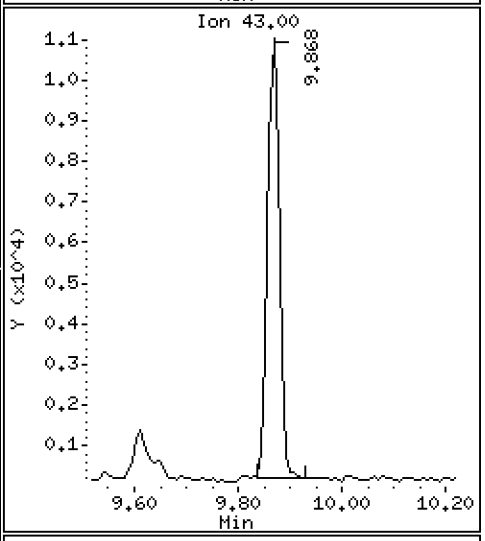
16 N-Nitroso-di-n-propylamine

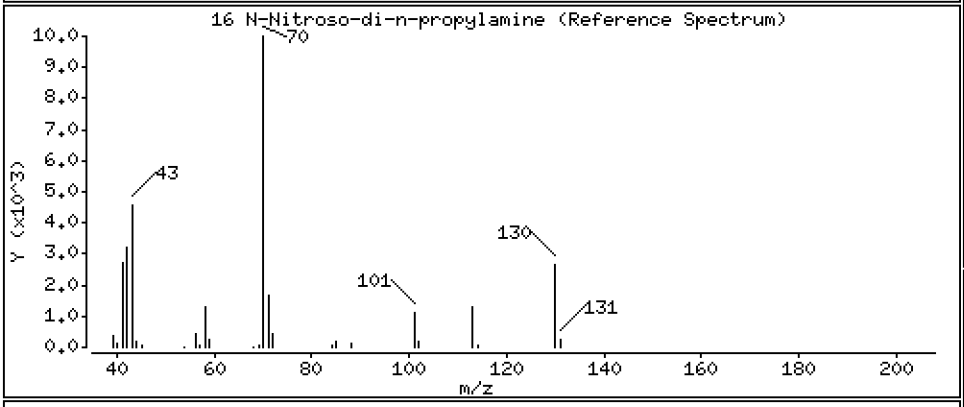
Concentration: 0.5155 ug/mL

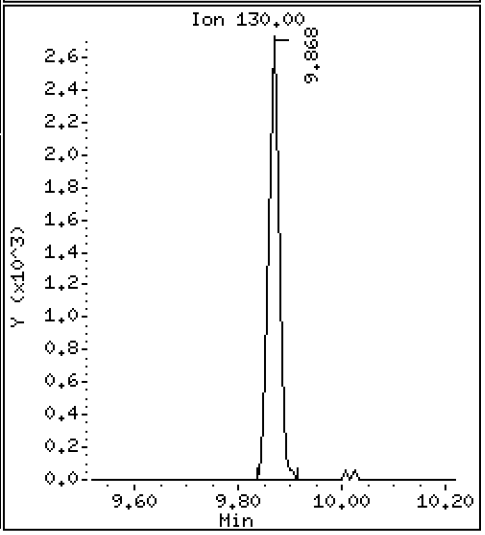


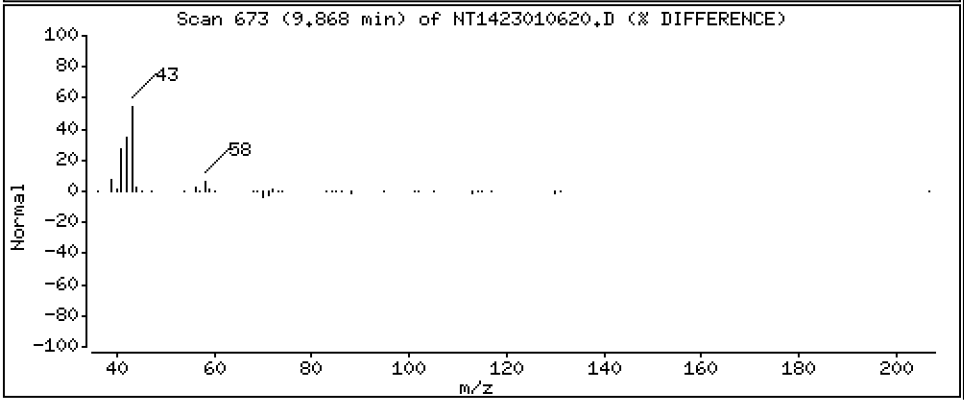












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

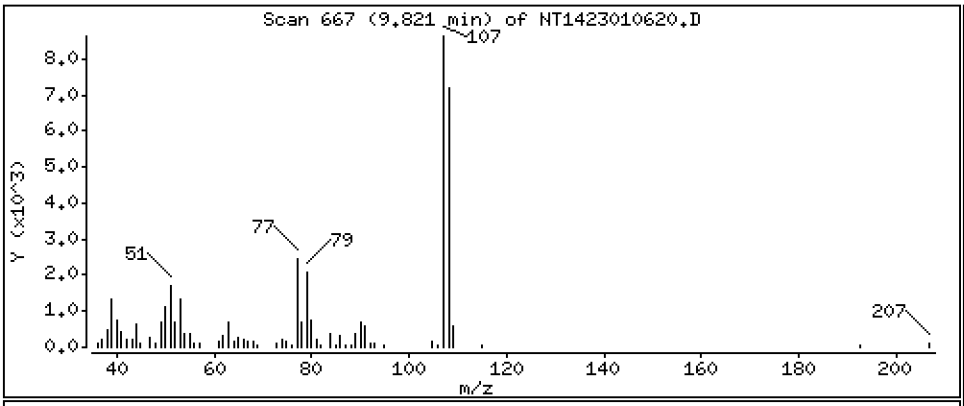
Operator: VTS

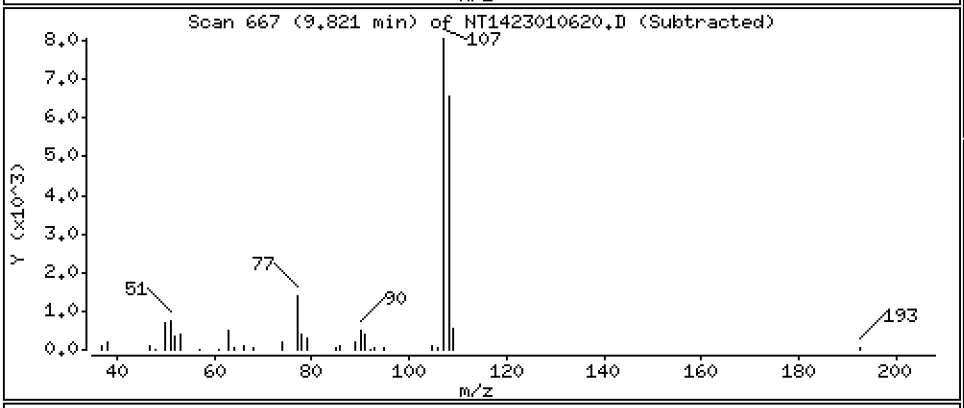
Column phase: ZB-5msi

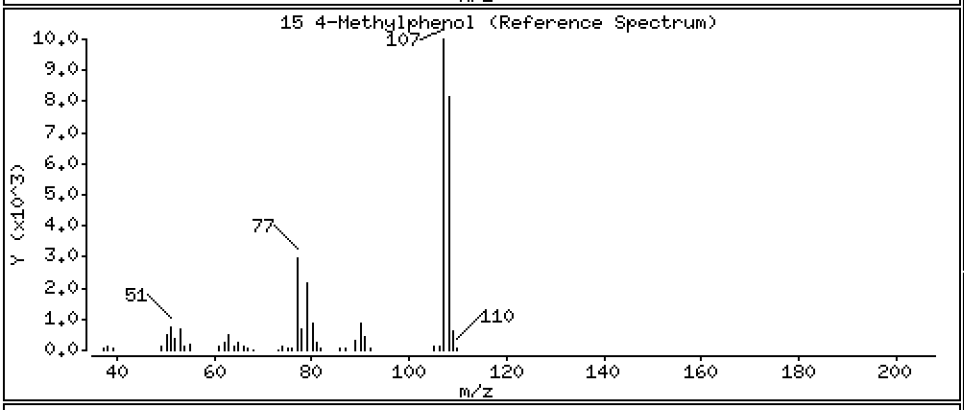
Column diameter: 0.25

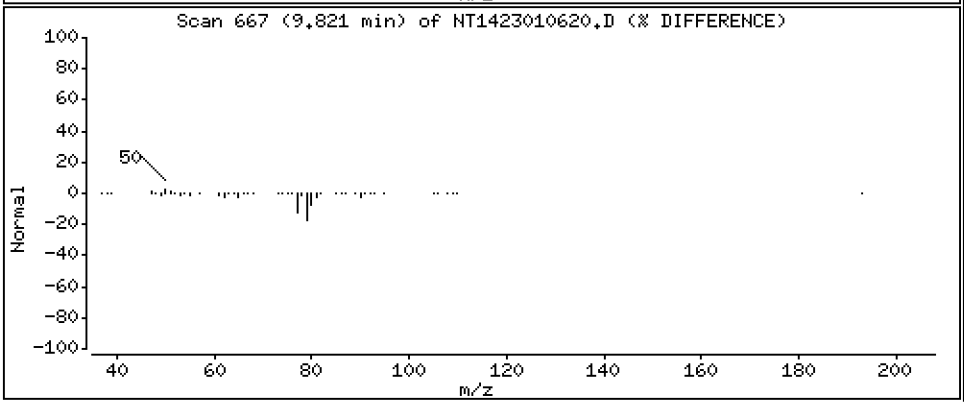
15 4-Methylphenol

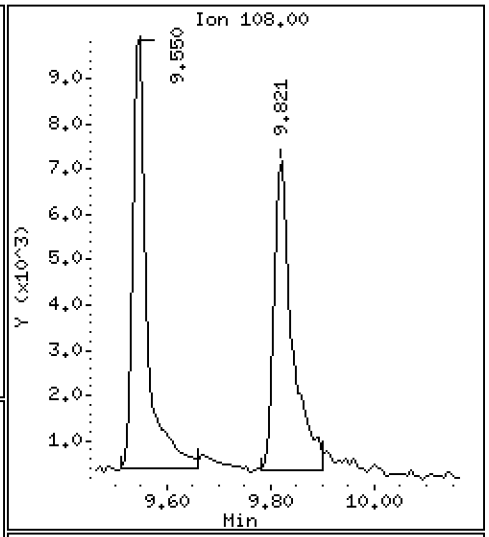
Concentration: 0.3300 ug/mL

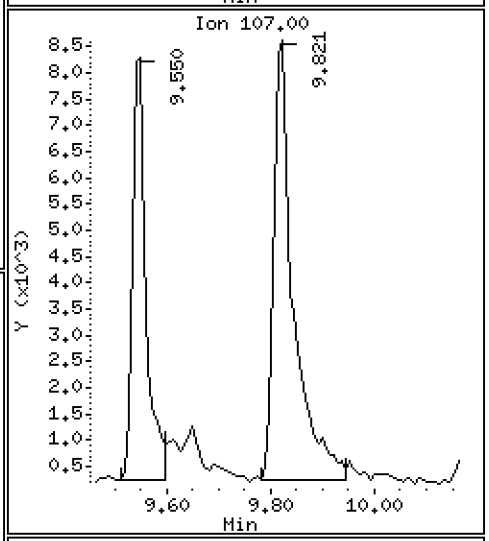


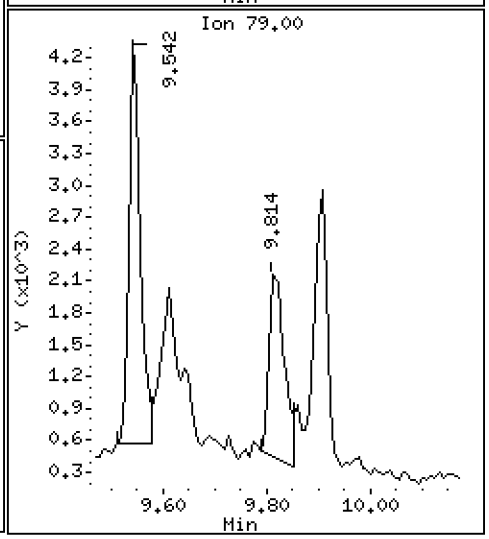












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

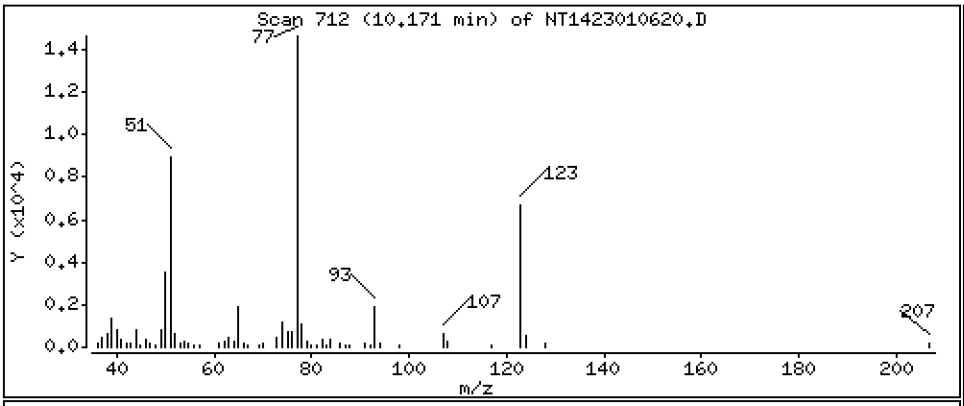
Operator: VTS

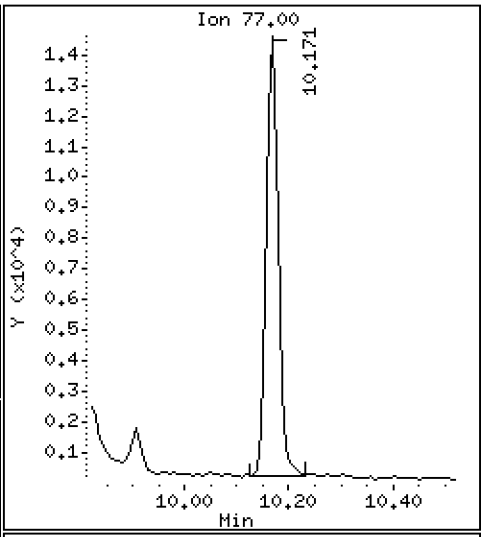
Column phase: ZB-5msi

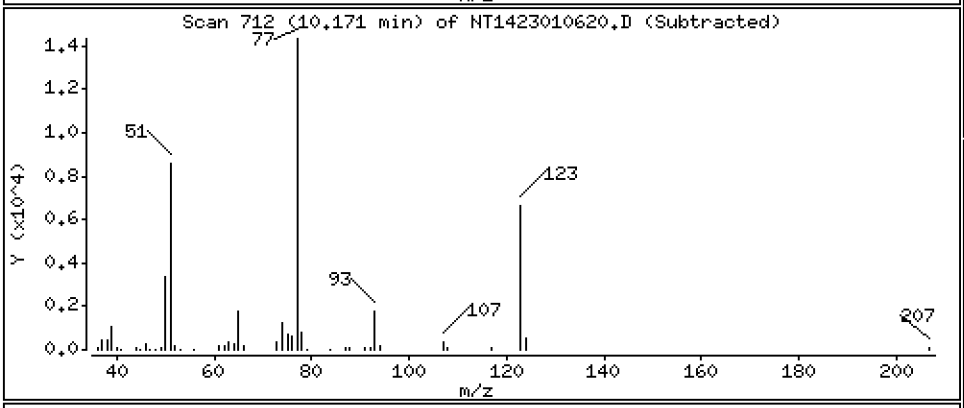
Column diameter: 0.25

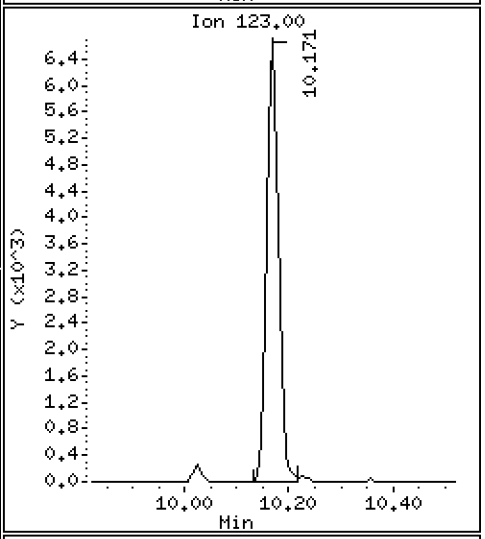
19 Nitrobenzene

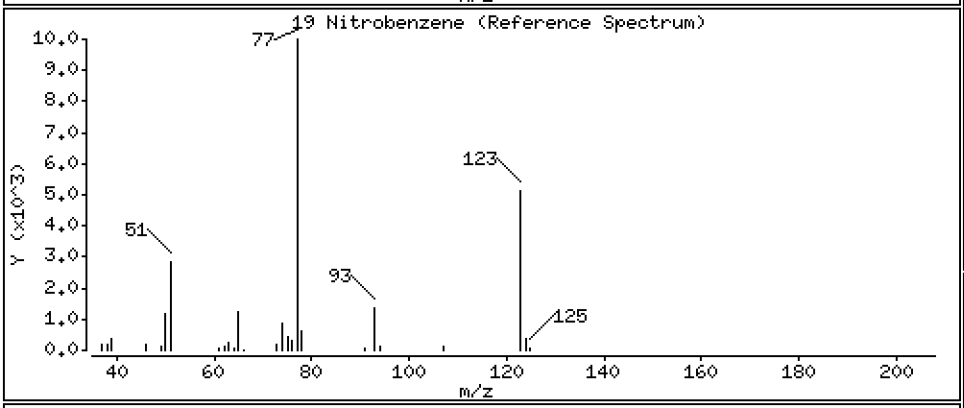
Concentration: 0.4923 ug/mL

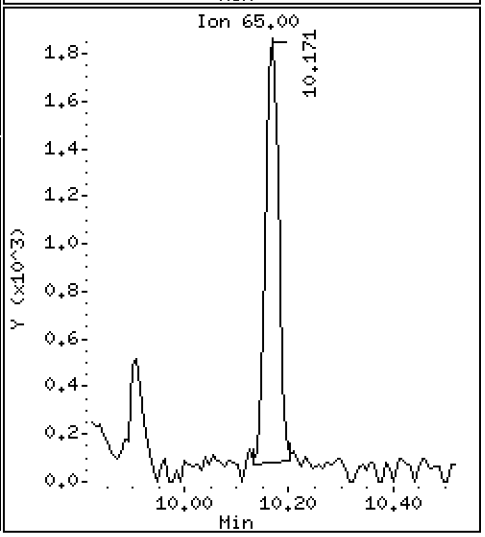


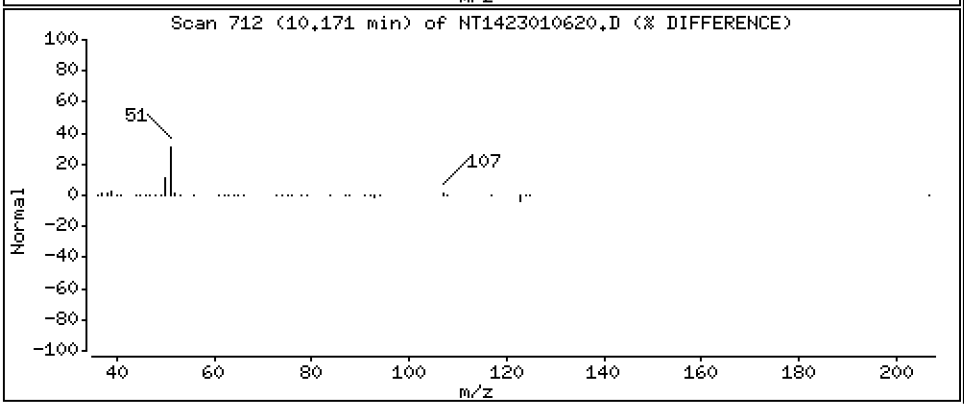












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

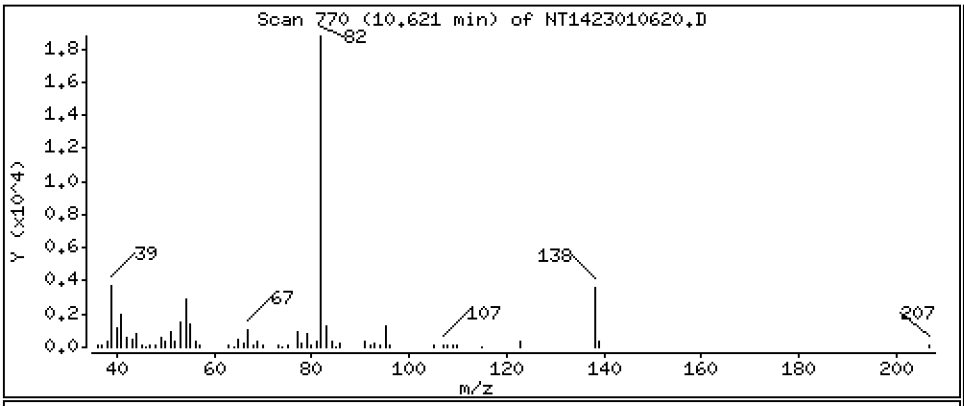
Operator: VTS

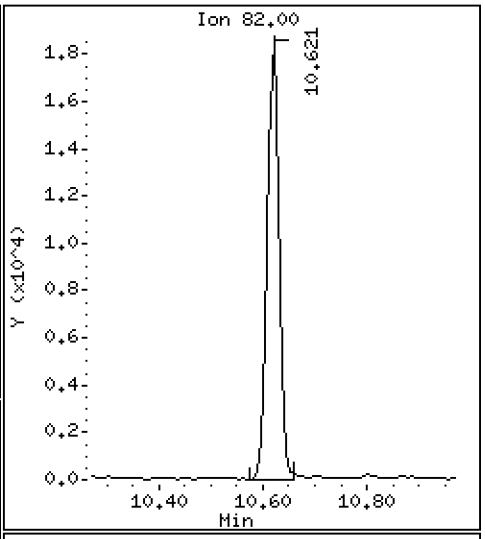
Column phase: ZB-5msi

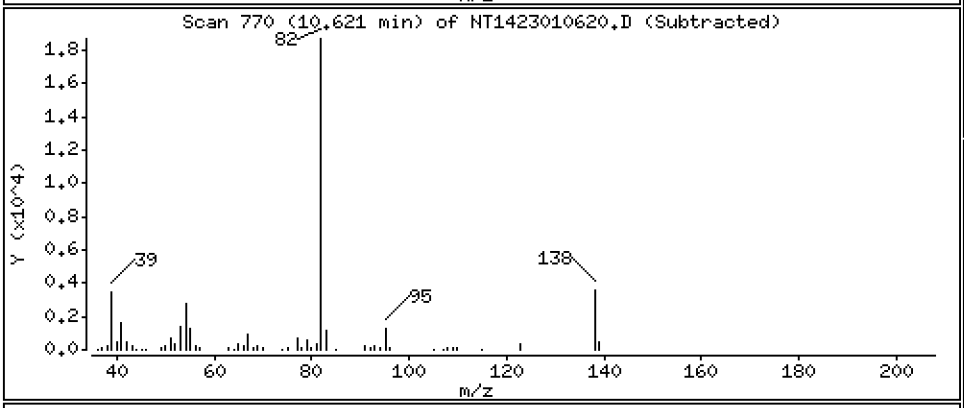
Column diameter: 0.25

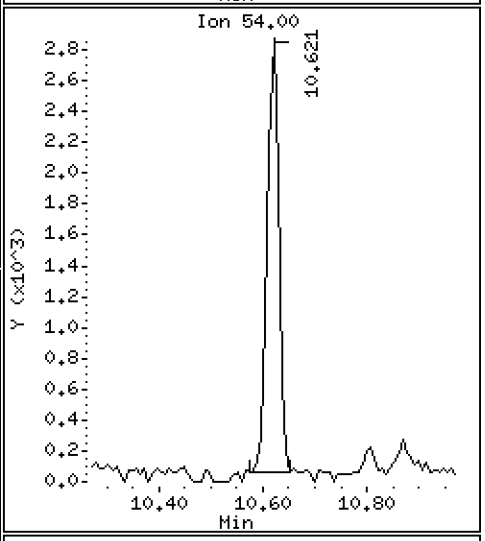
20 Isophorone

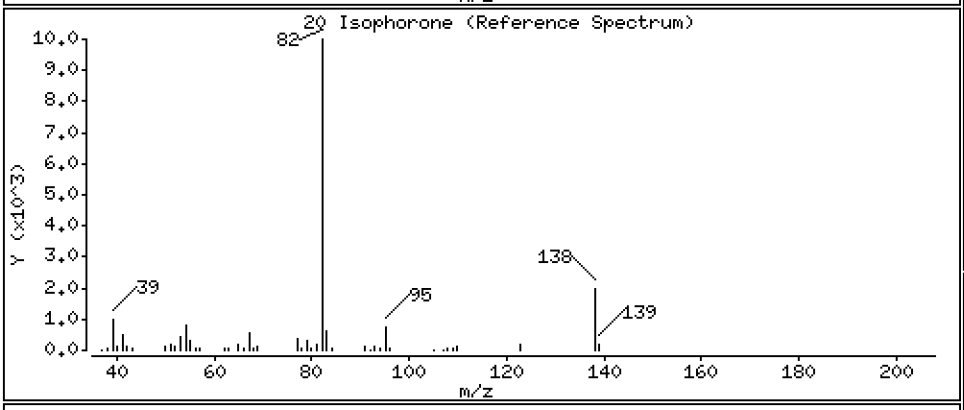
Concentration: 0.4844 ug/mL

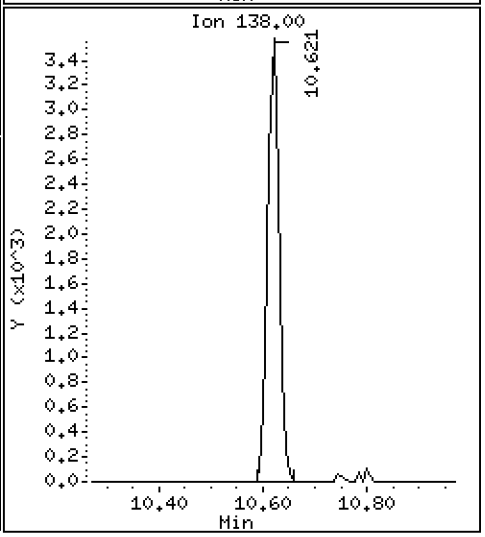


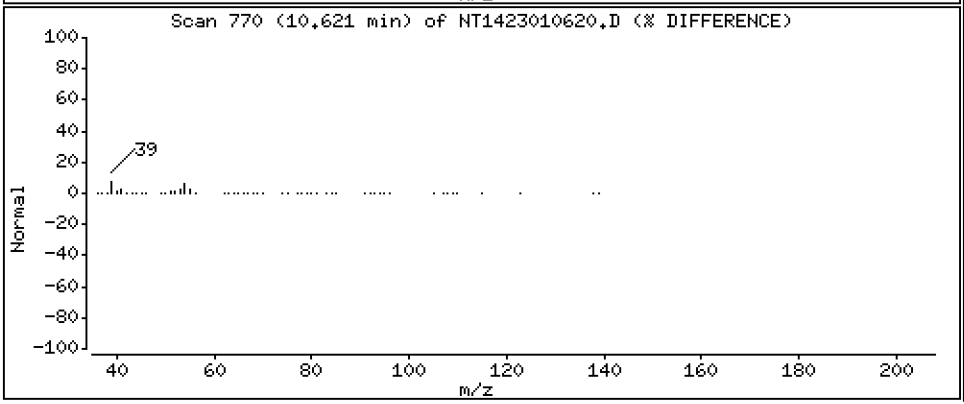












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

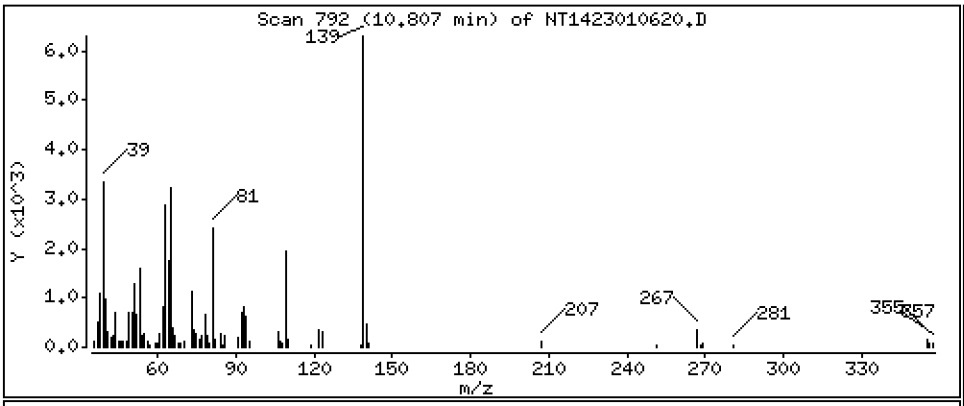
Operator: VTS

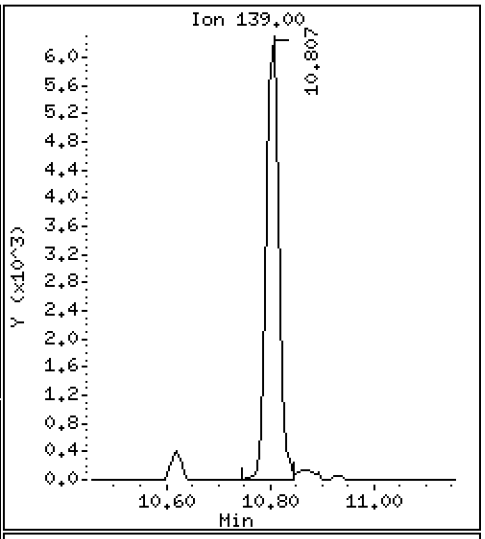
Column phase: ZB-5msi

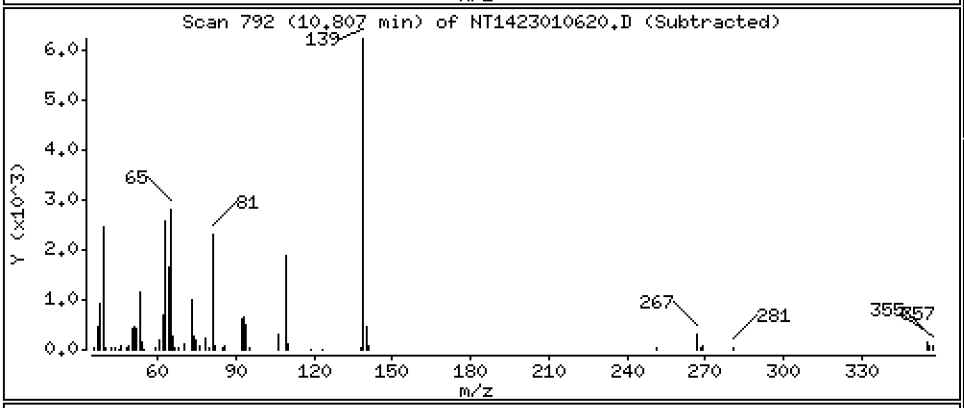
Column diameter: 0.25

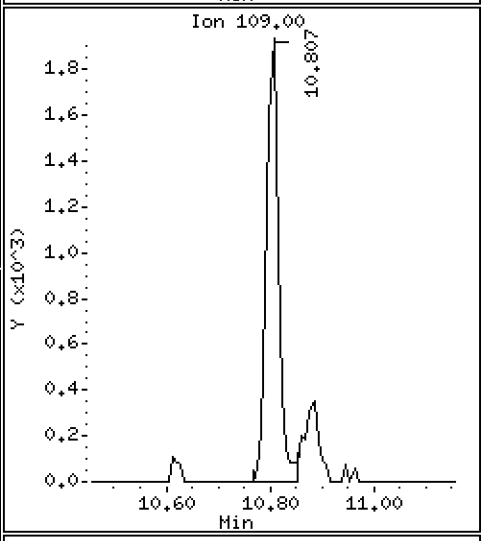
21 2-Nitrophenol

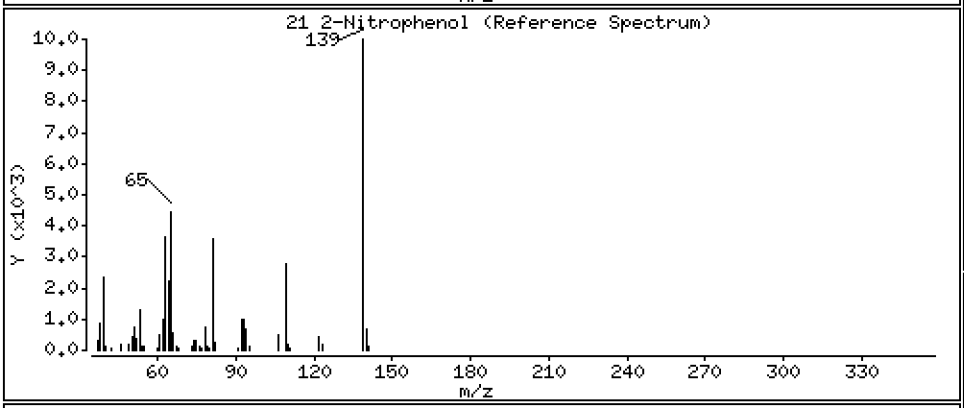
Concentration: 0.4302 ug/mL

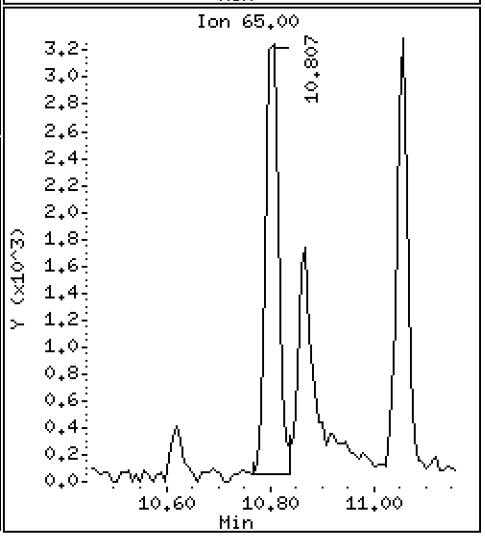


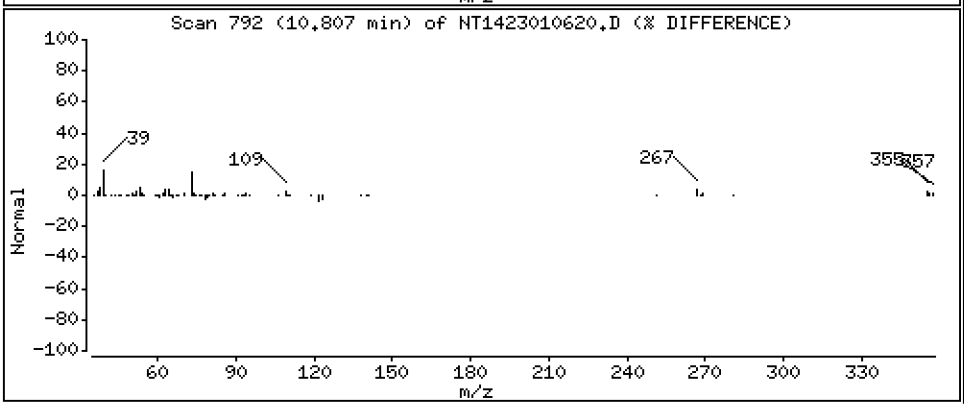












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

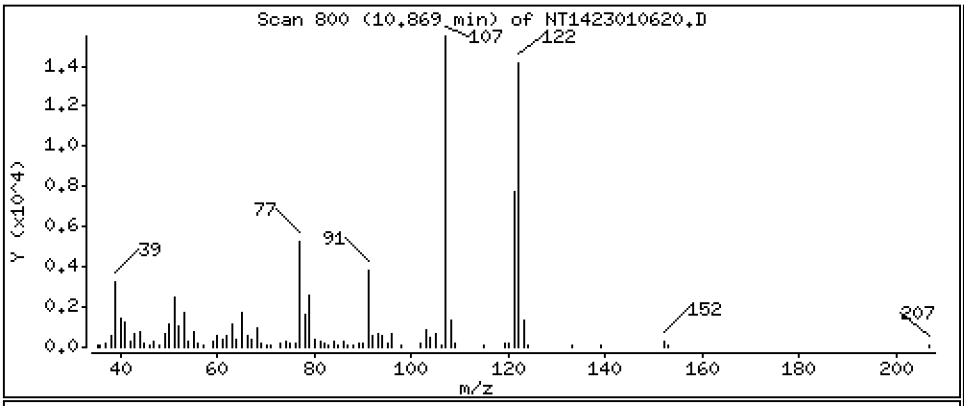
Operator: VTS

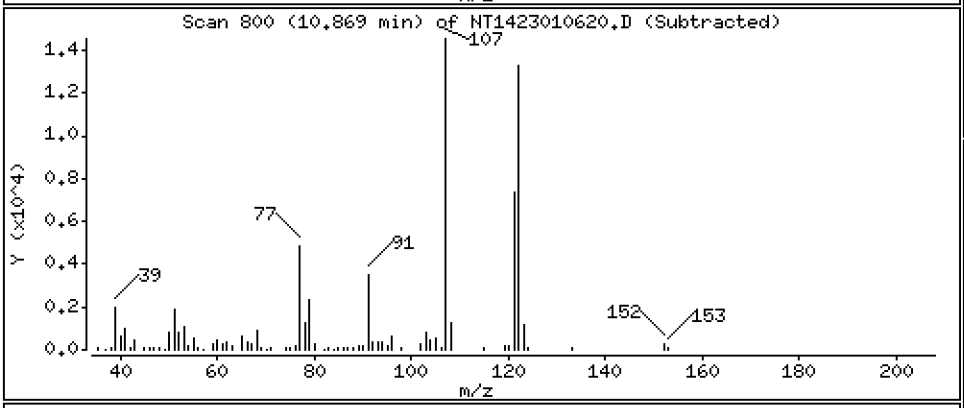
Column phase: ZB-5msi

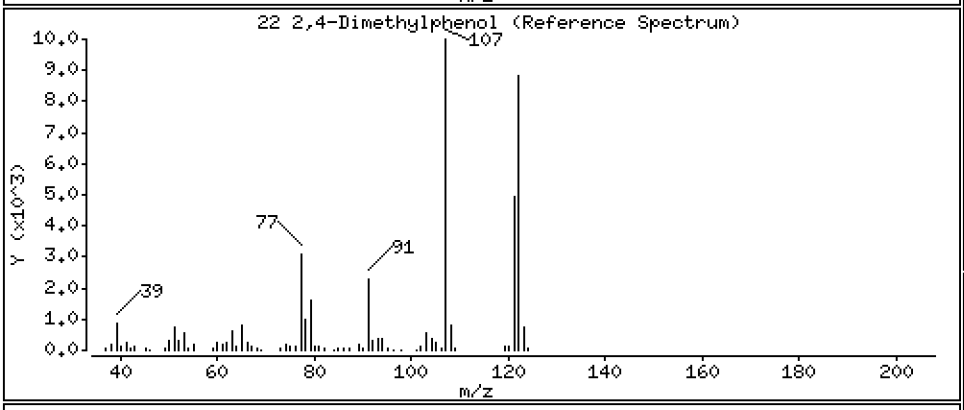
Column diameter: 0.25

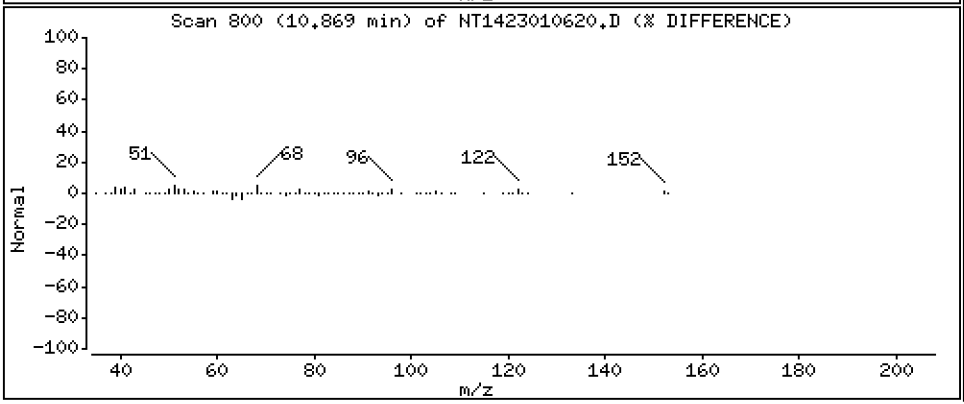
22 2,4-Dimethylphenol

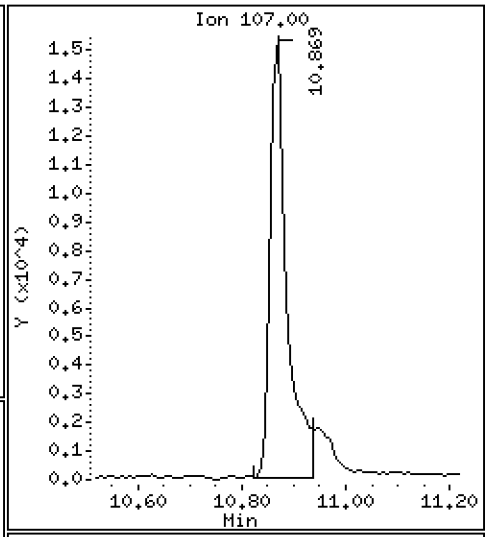
Concentration: 0.7152 ug/mL

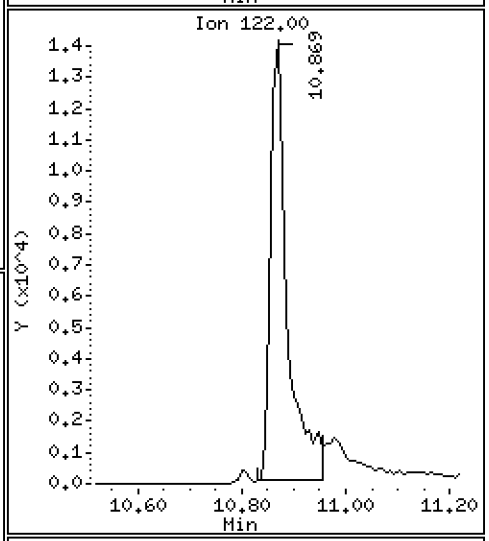


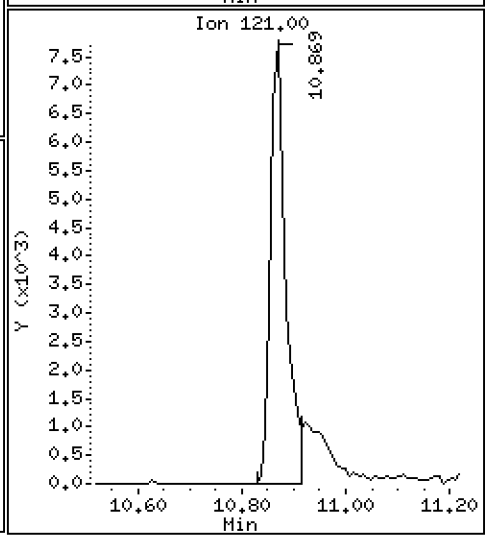












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

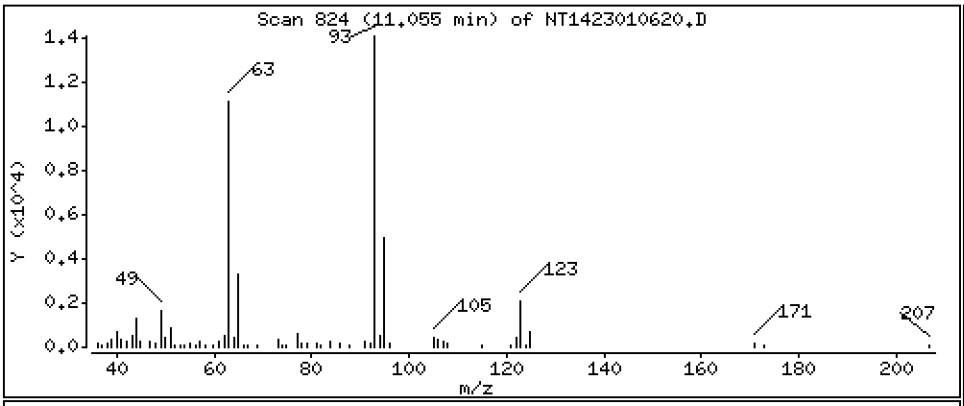
Operator: VTS

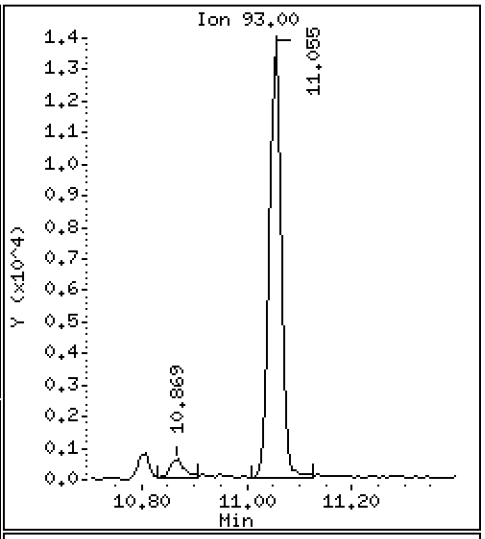
Column phase: ZB-5msi

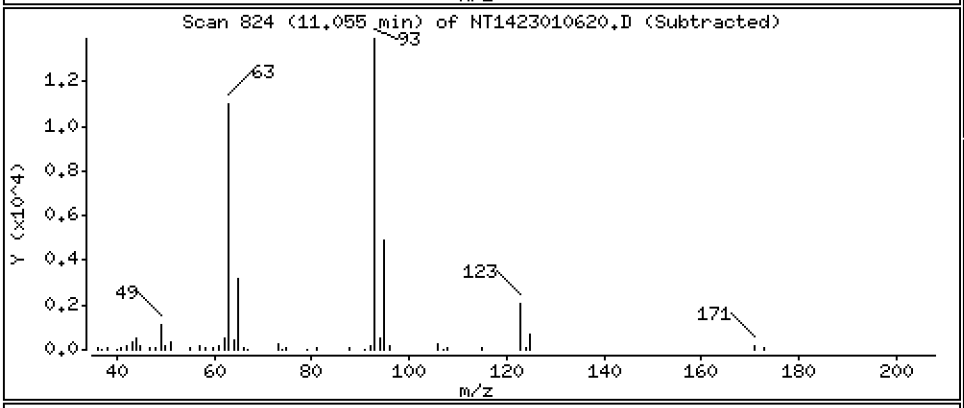
Column diameter: 0.25

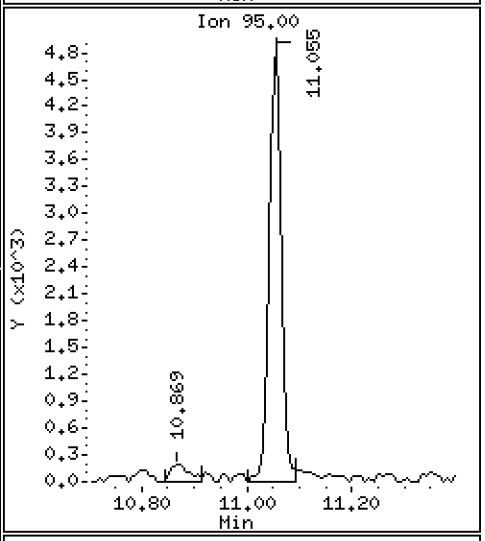
23 Bis(2-Chloroethoxy)methane

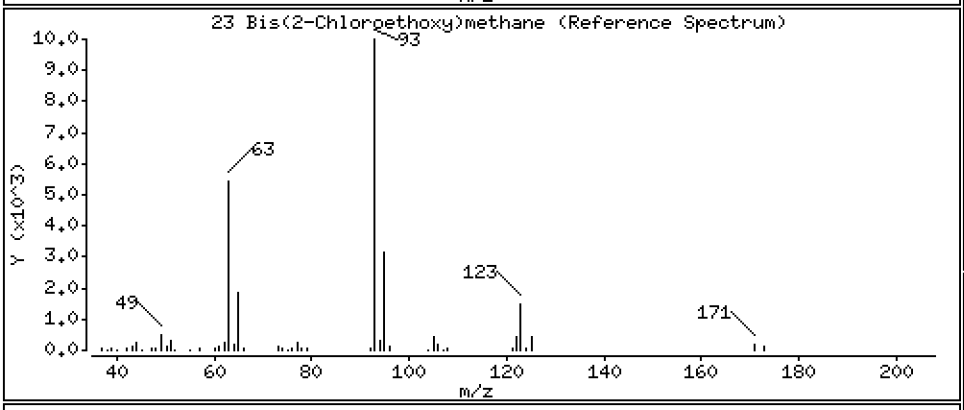
Concentration: 0.4626 ug/mL

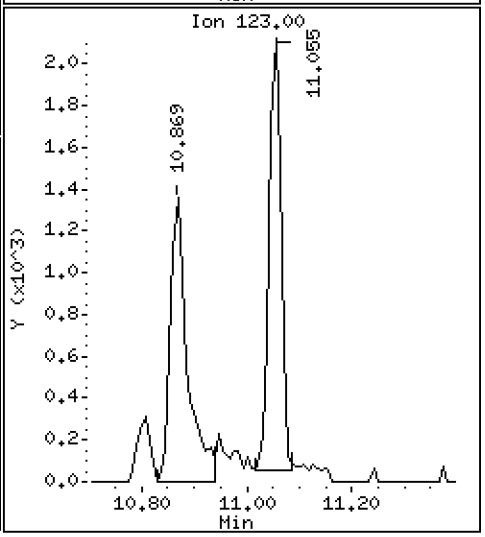


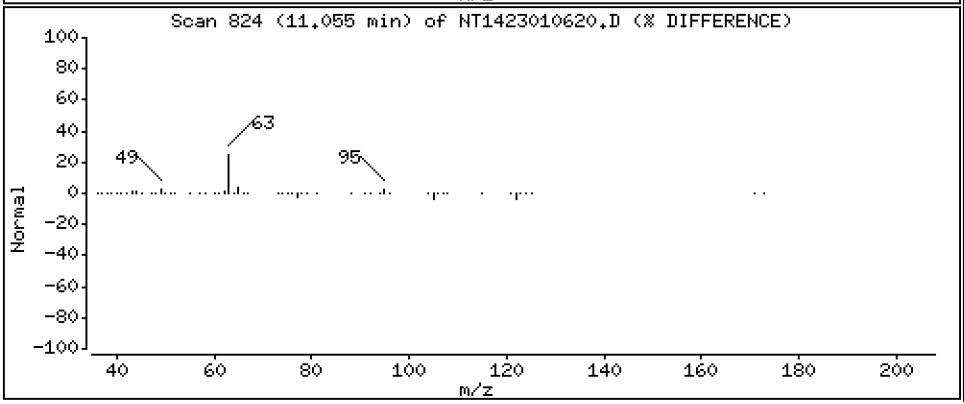












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

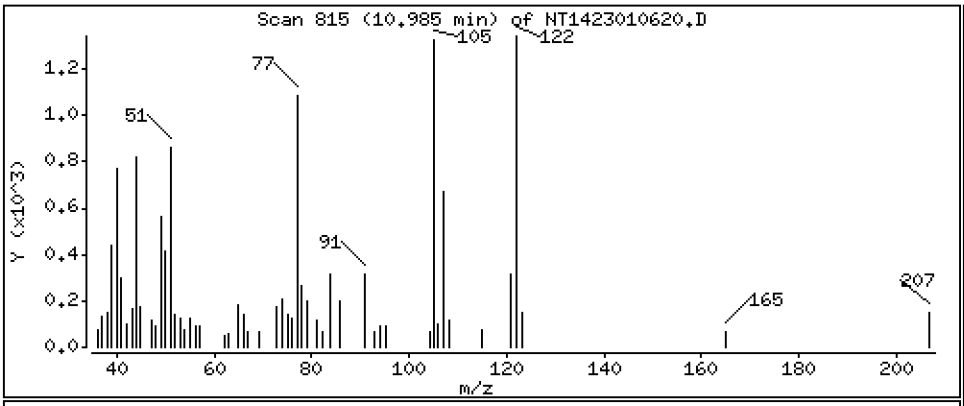
Operator: VTS

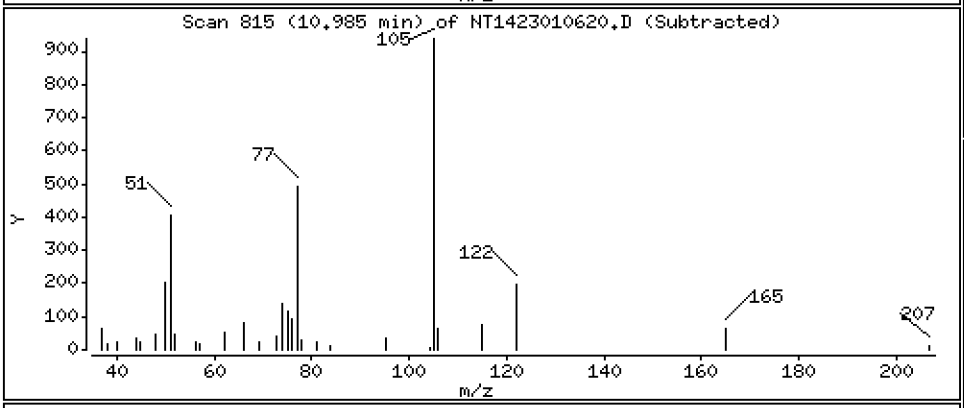
Column phase: ZB-5msi

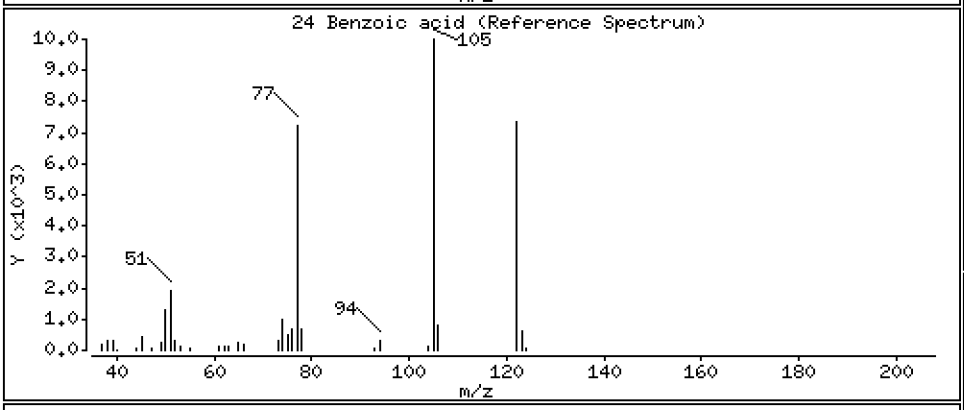
Column diameter: 0.25

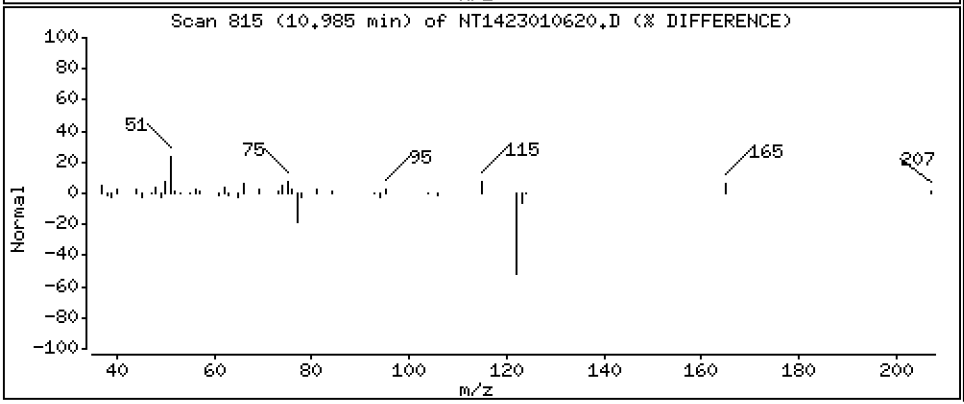
24 Benzoic acid

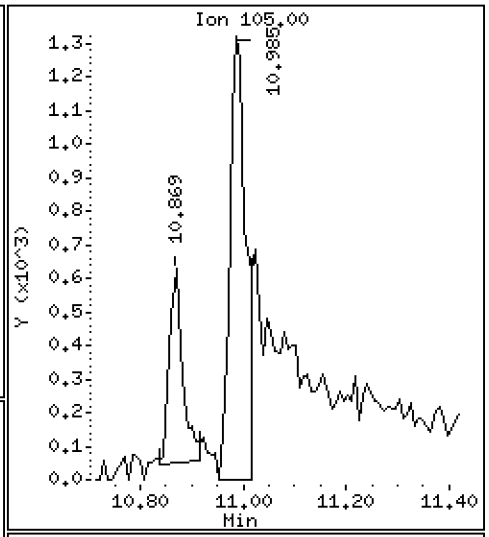
Concentration: 0.1039 ug/mL

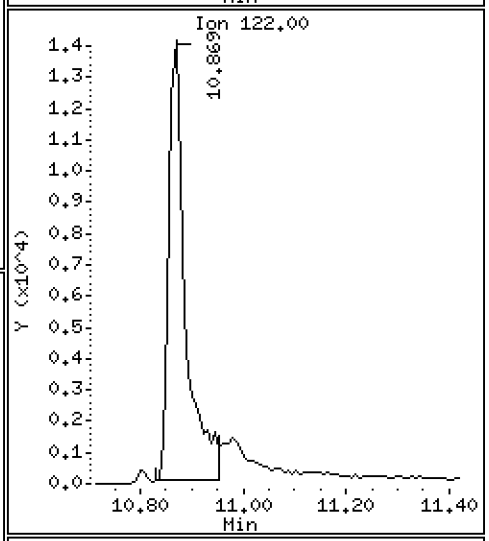


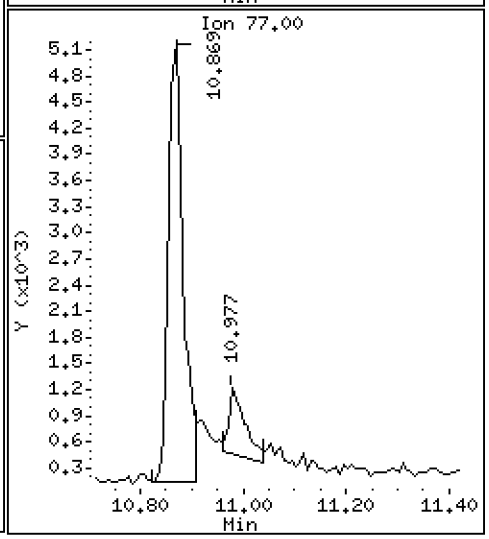












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

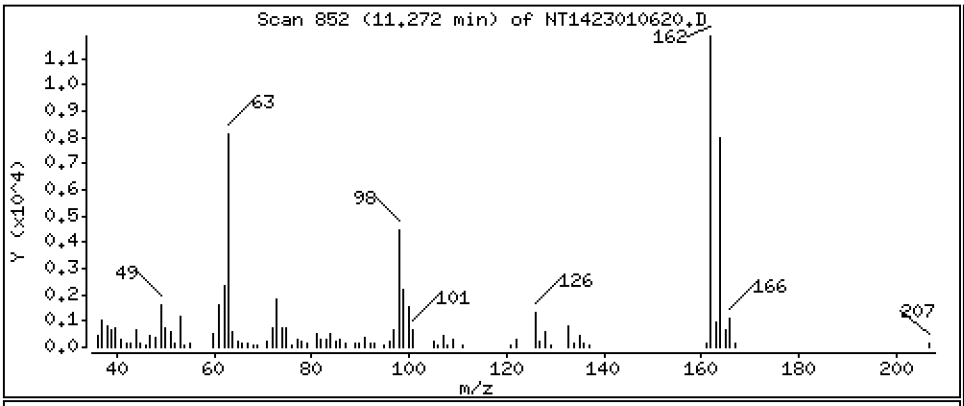
Operator: VTS

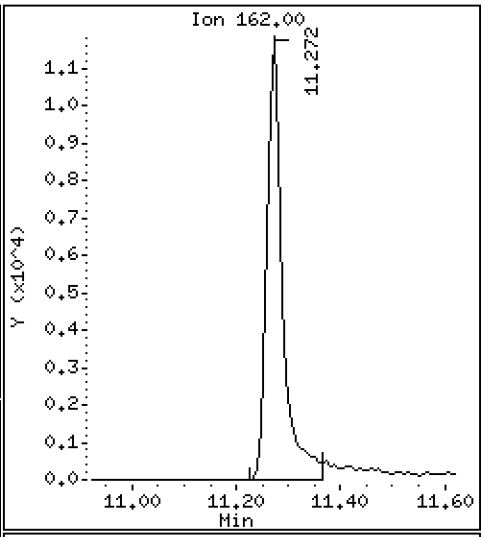
Column phase: ZB-5msi

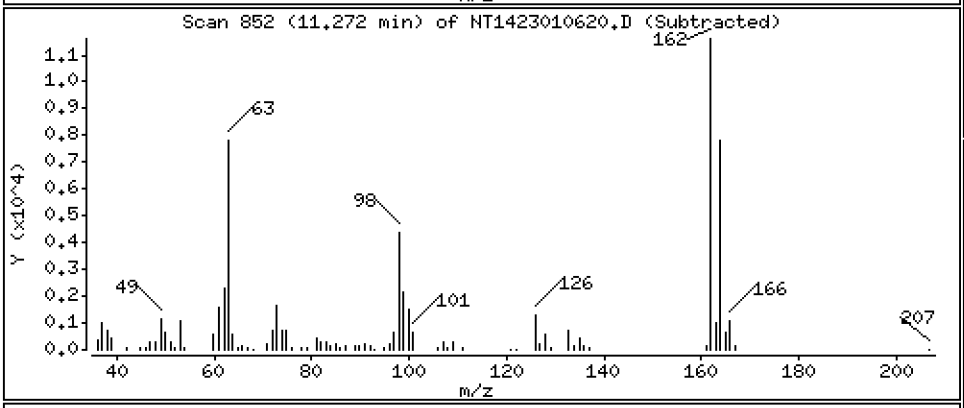
Column diameter: 0.25

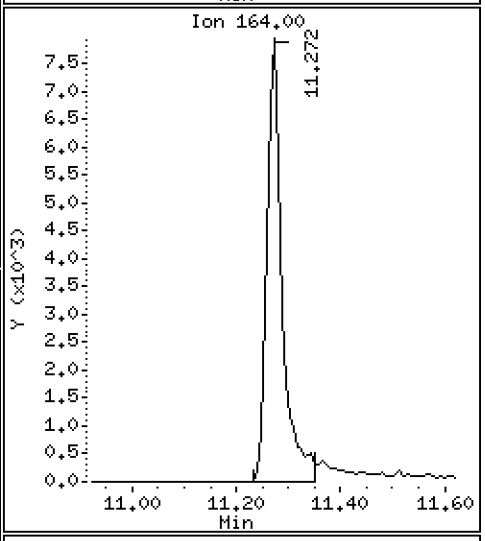
25 2,4-Dichlorophenol

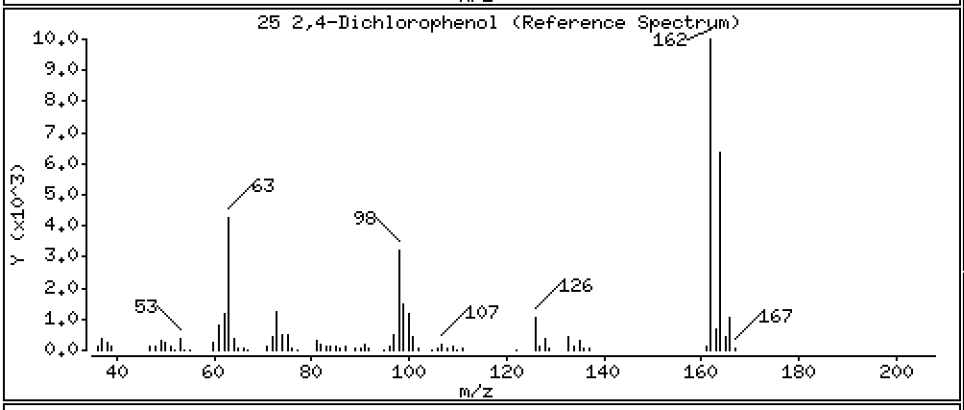
Concentration: 0.6201 ug/mL

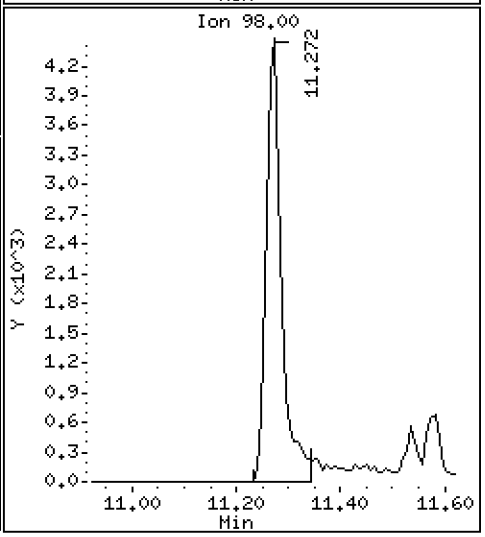


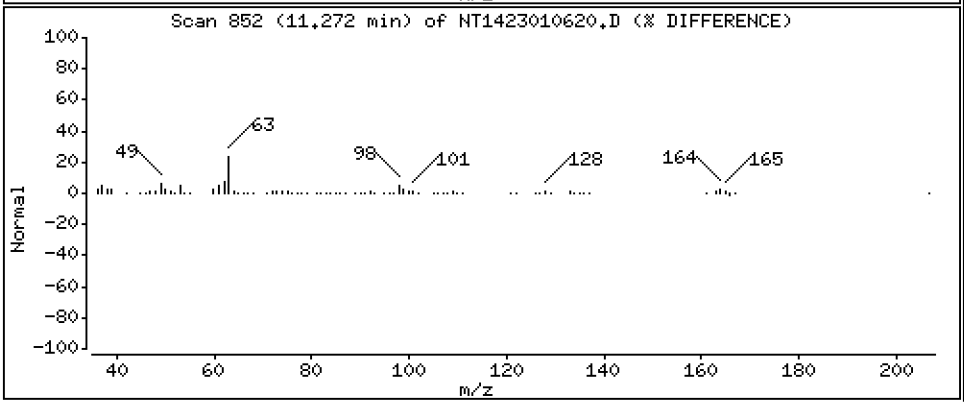












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

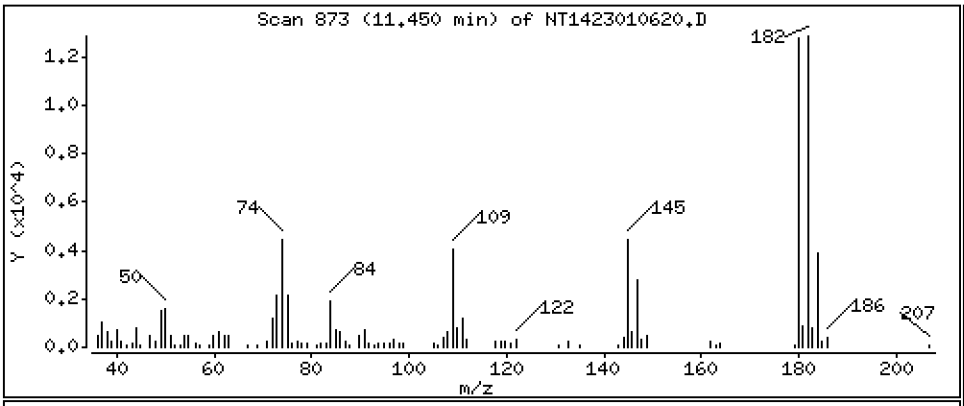
Operator: VTS

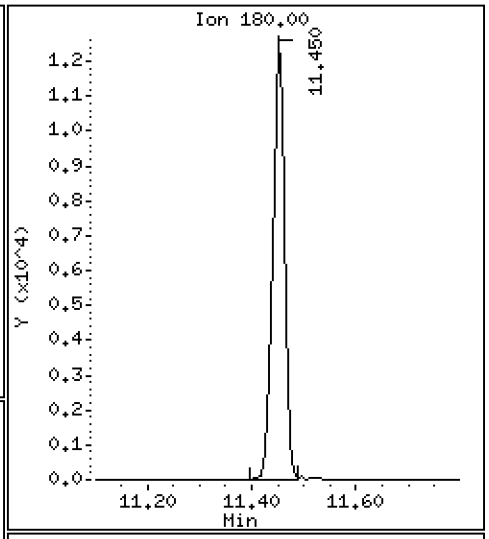
Column phase: ZB-5msi

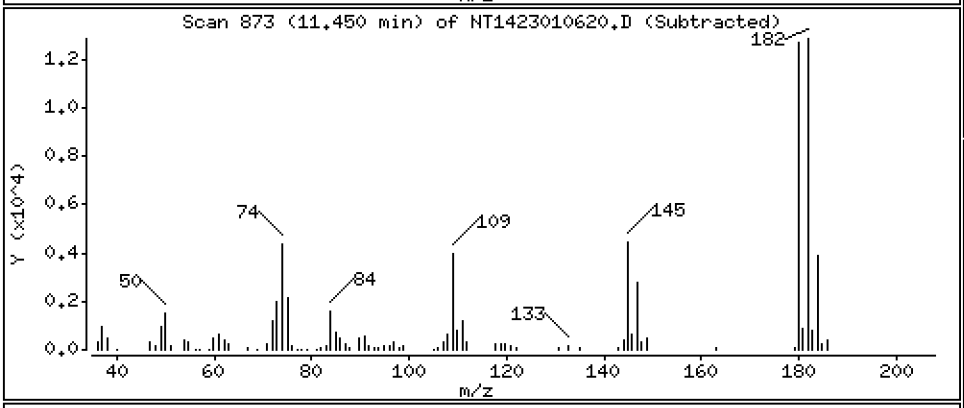
Column diameter: 0.25

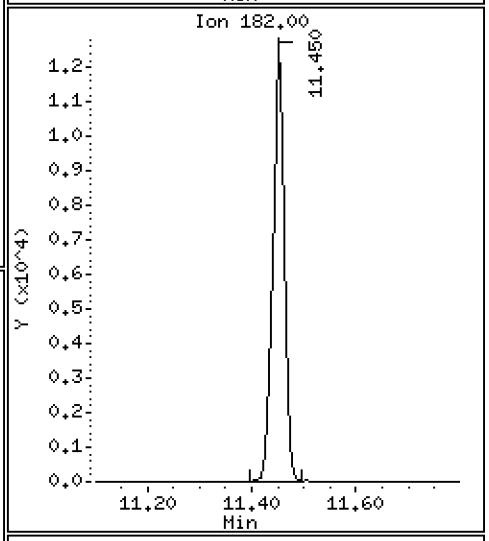
26 1,2,4-Trichlorobenzene

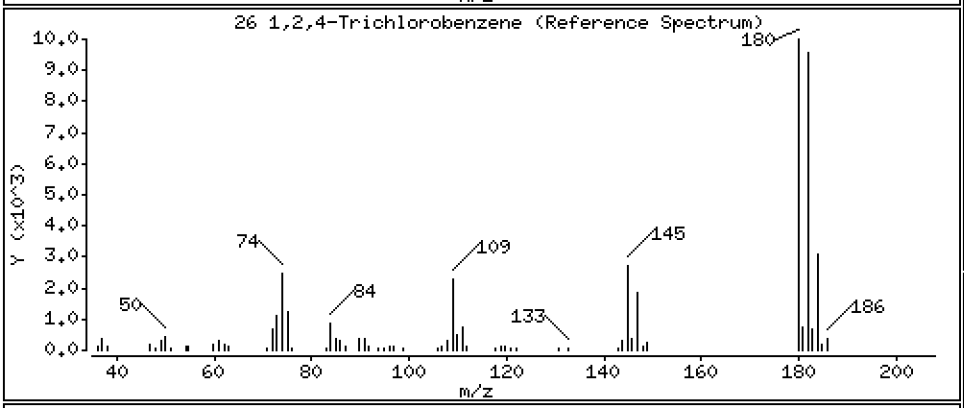
Concentration: 0.5482 ug/mL

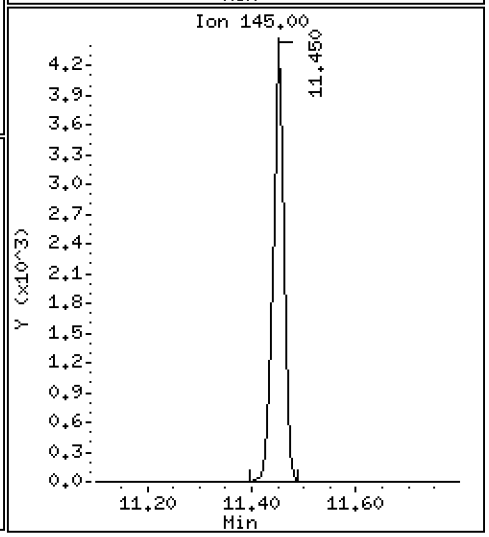


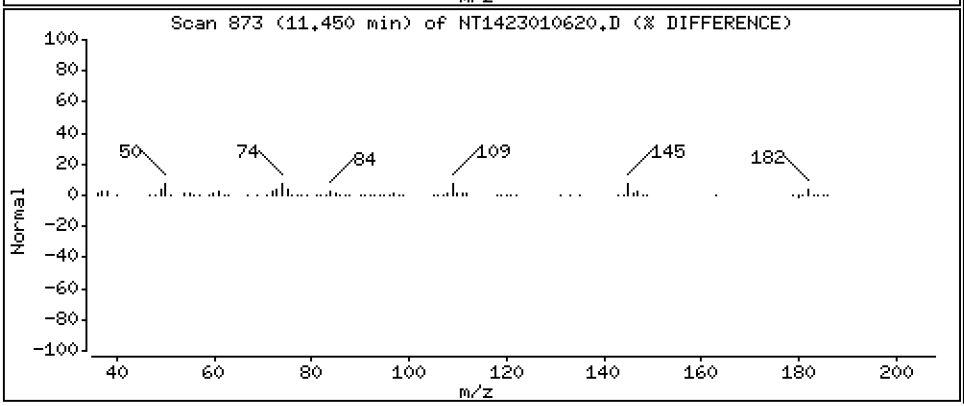












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

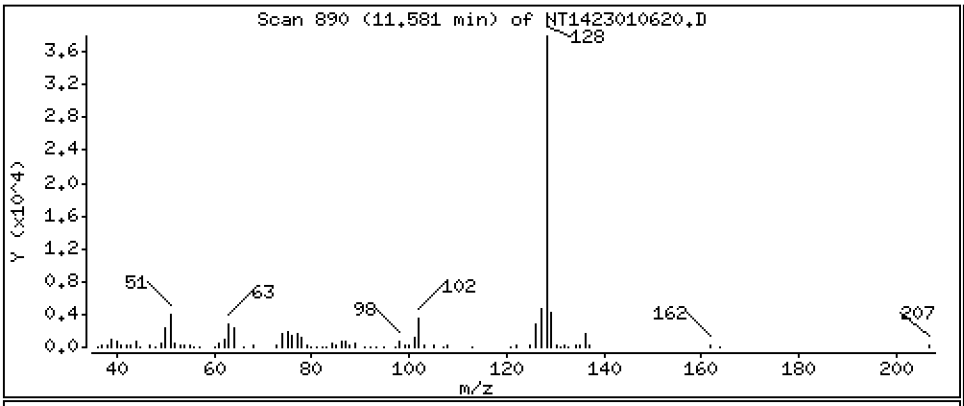
Operator: VTS

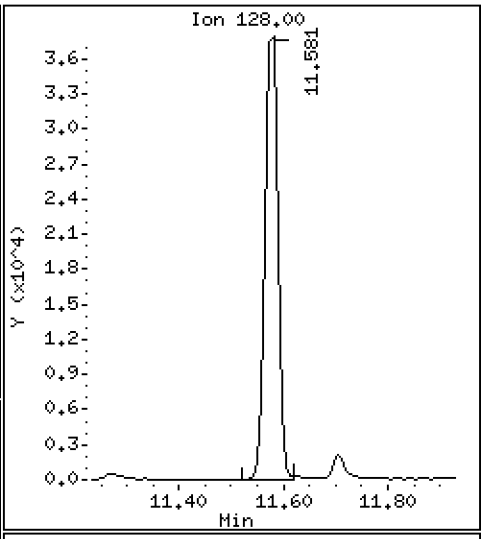
Column phase: ZB-5msi

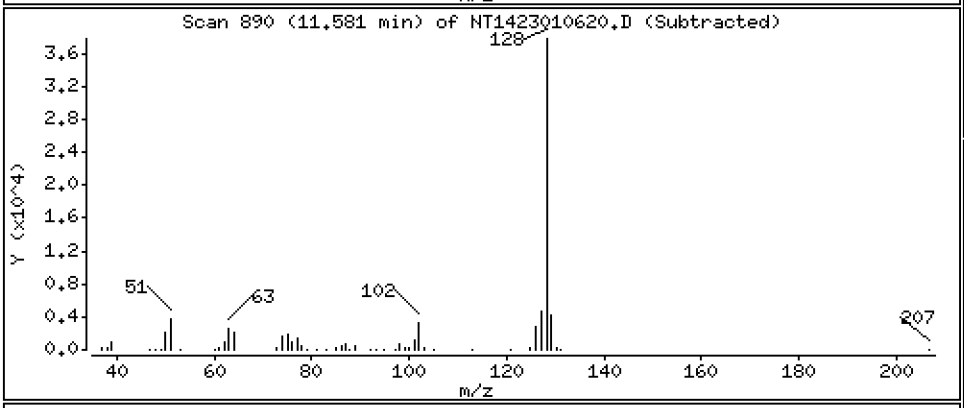
Column diameter: 0.25

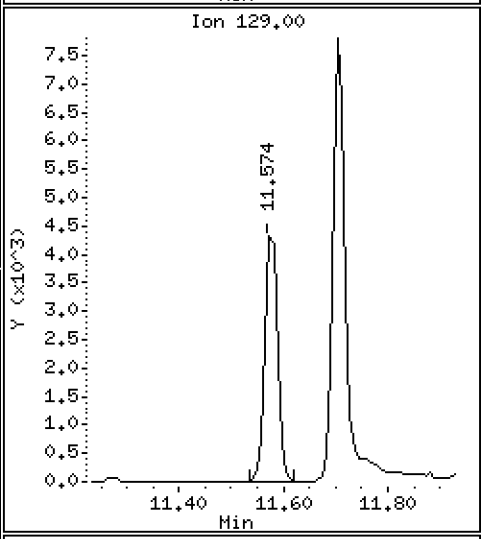
28 Naphthalene

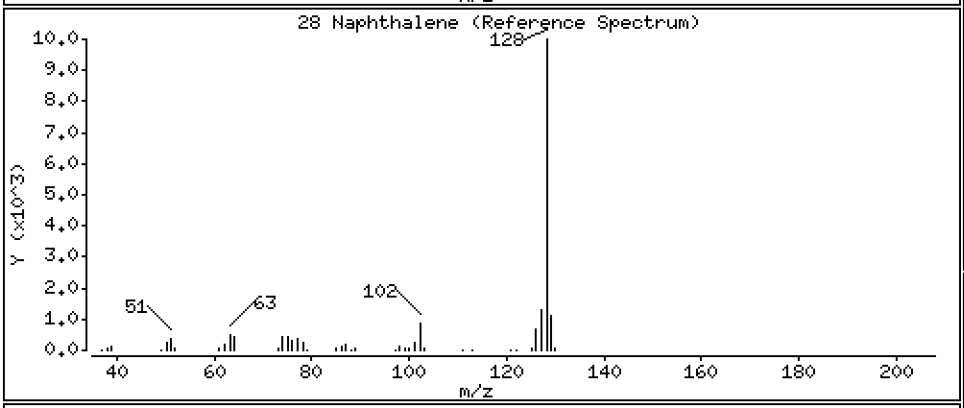
Concentration: 0.4696 ug/mL

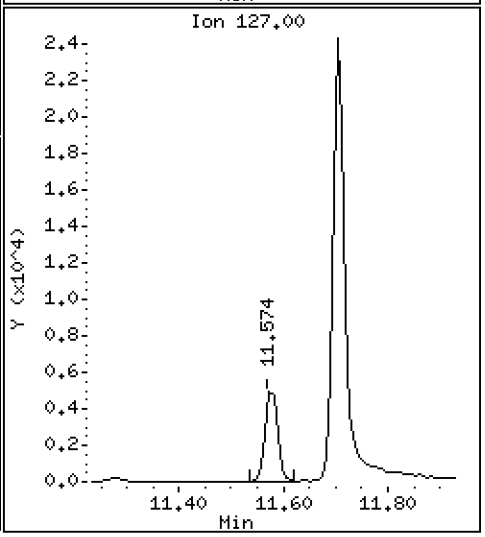


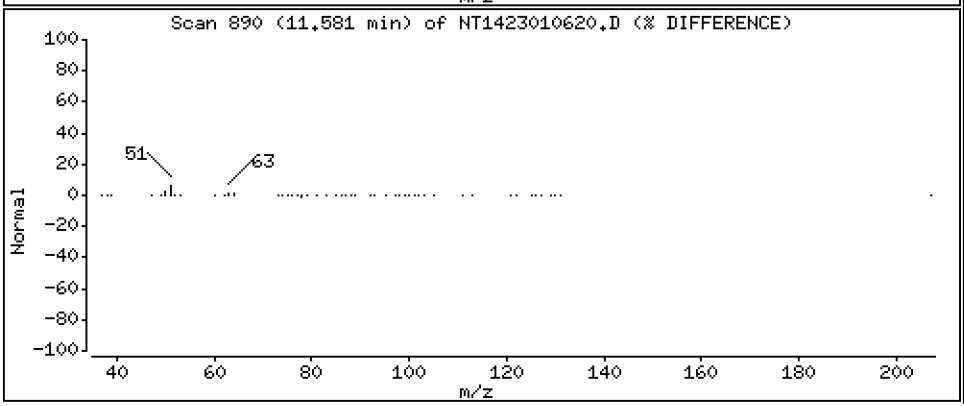












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

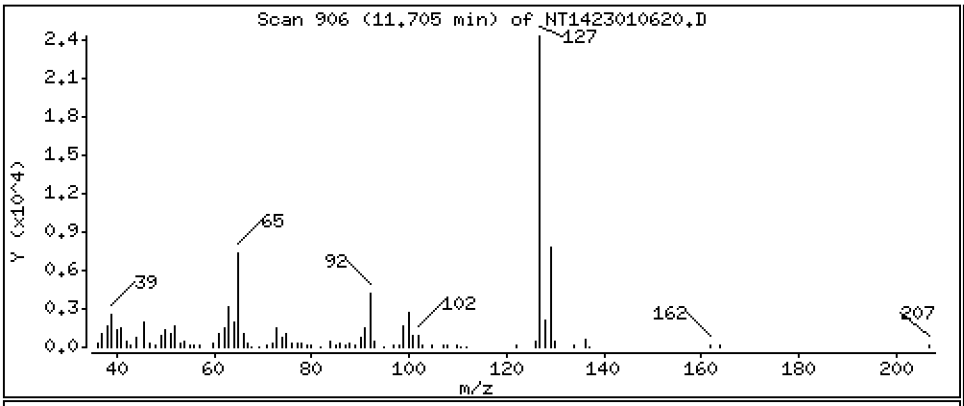
Operator: VTS

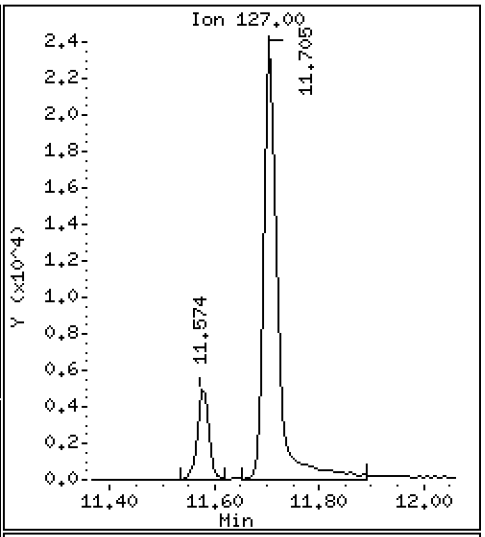
Column phase: ZB-5msi

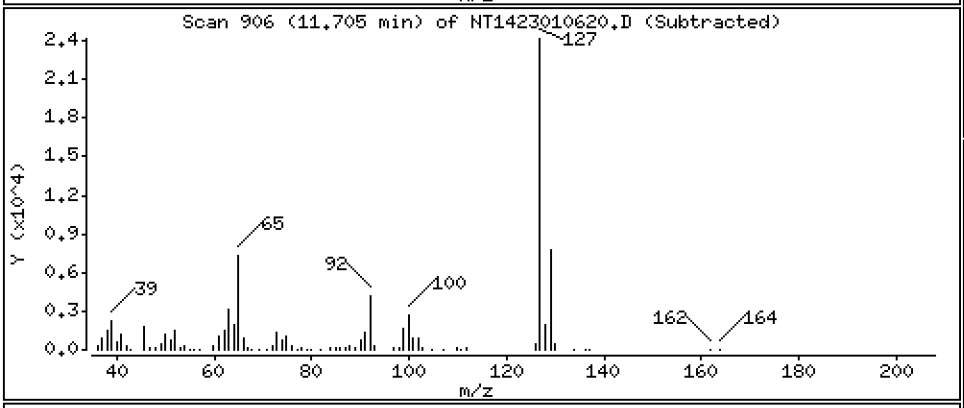
Column diameter: 0.25

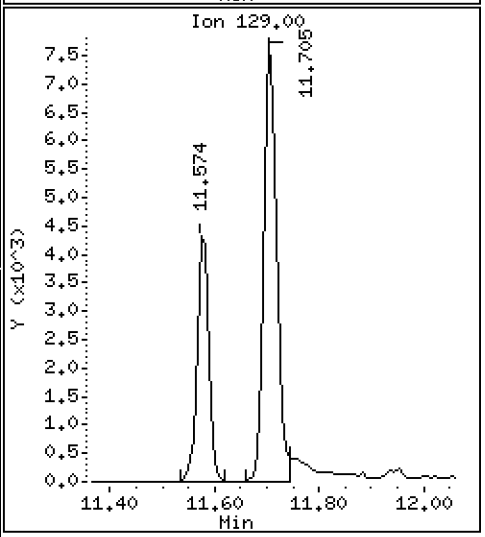
29 4-Chloroaniline

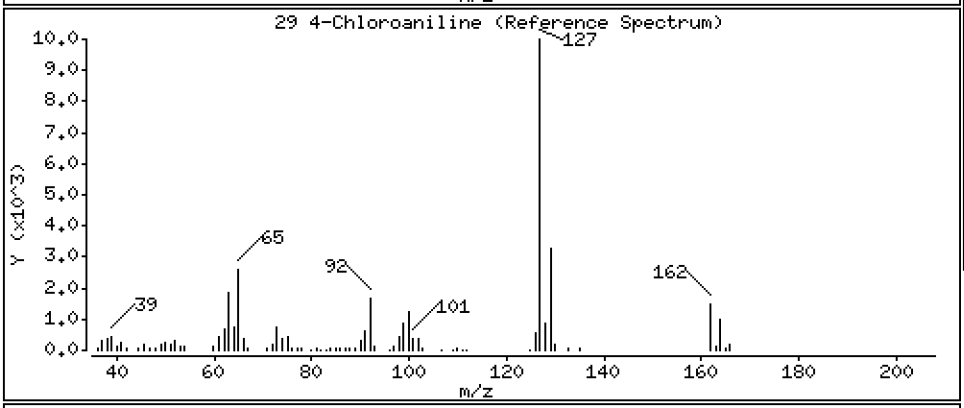
Concentration: 0.8098 ug/mL

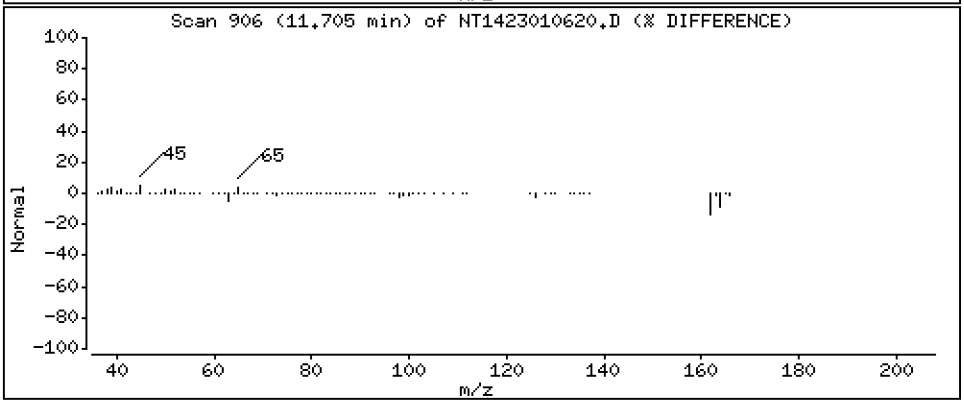












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

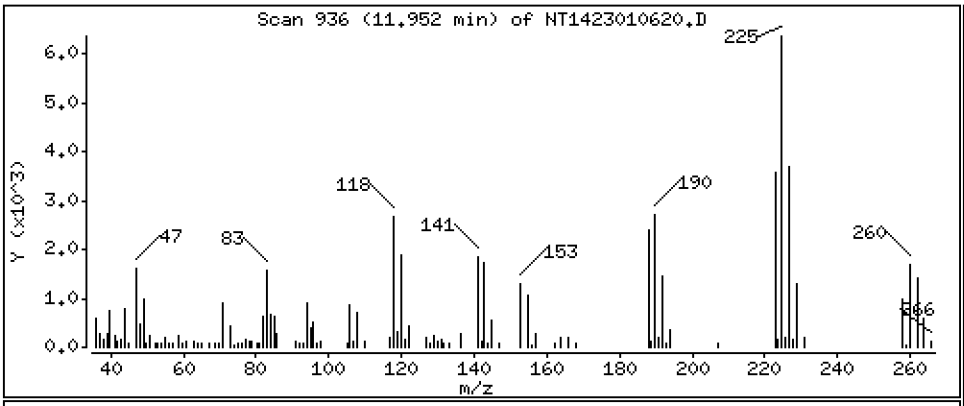
Operator: VTS

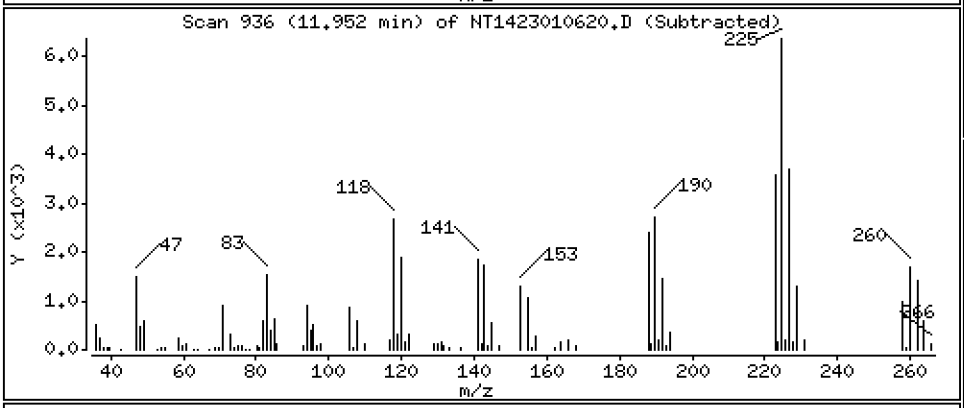
Column phase: ZB-5msi

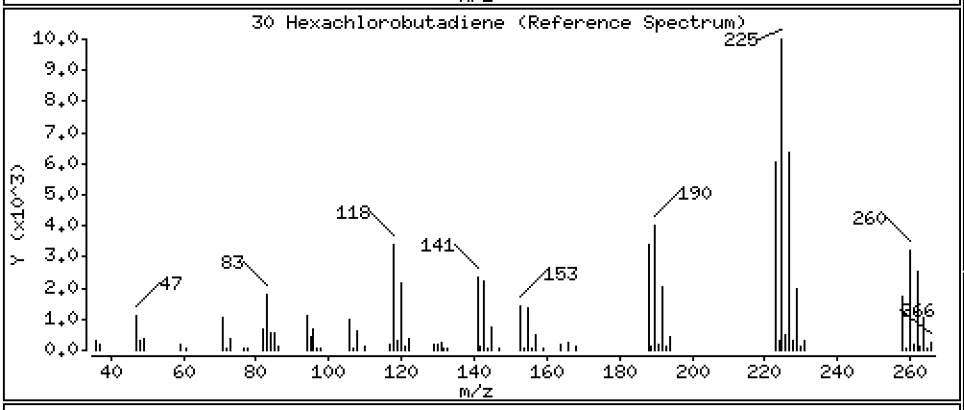
Column diameter: 0.25

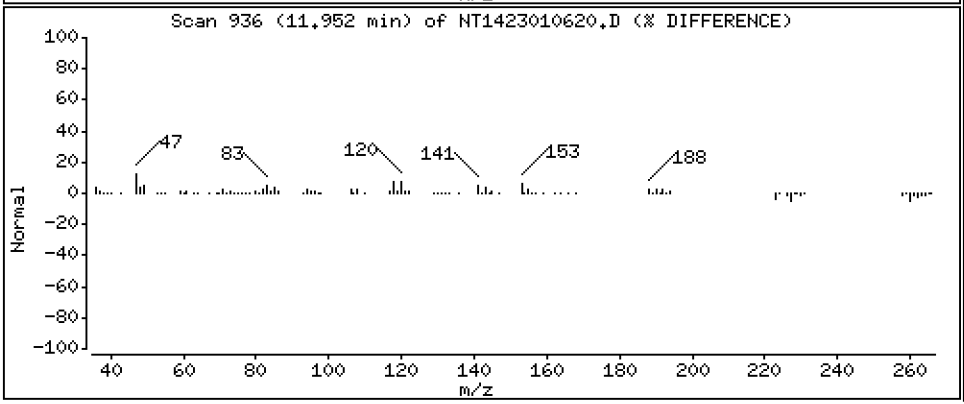
30 Hexachlorobutadiene

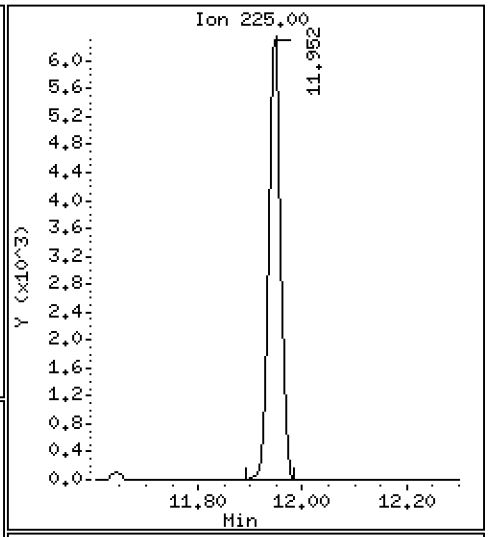
Concentration: 0.5745 ug/mL

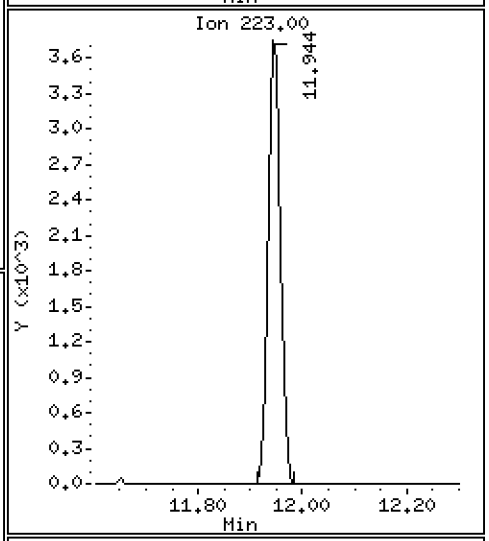


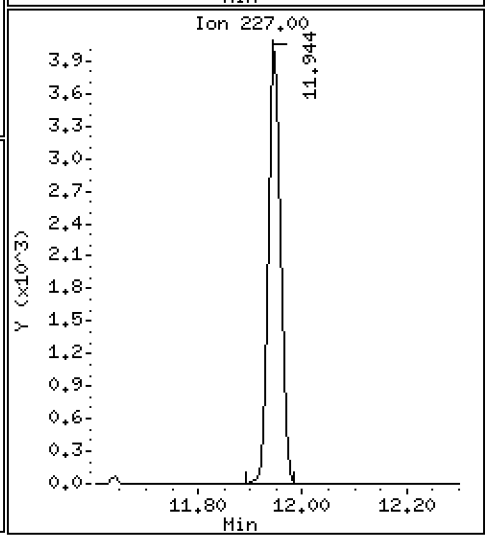












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

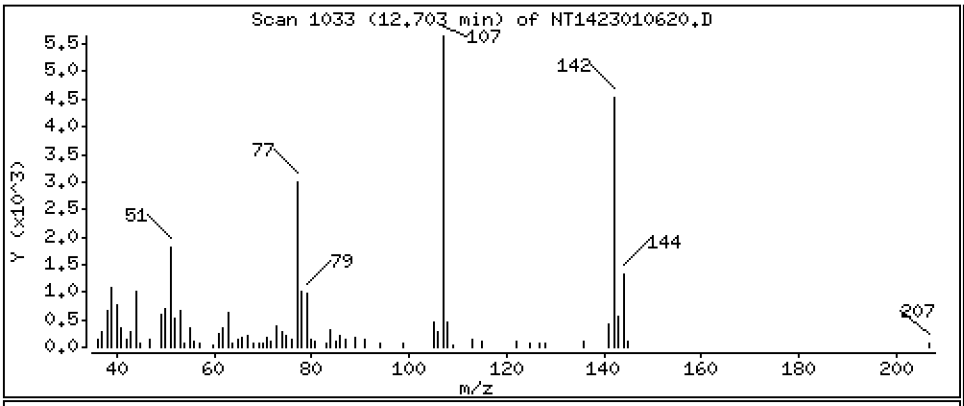
Operator: VTS

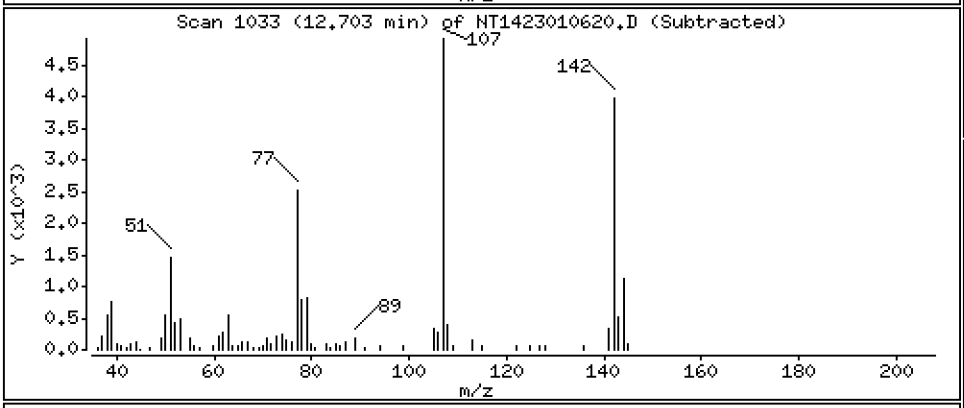
Column phase: ZB-5msi

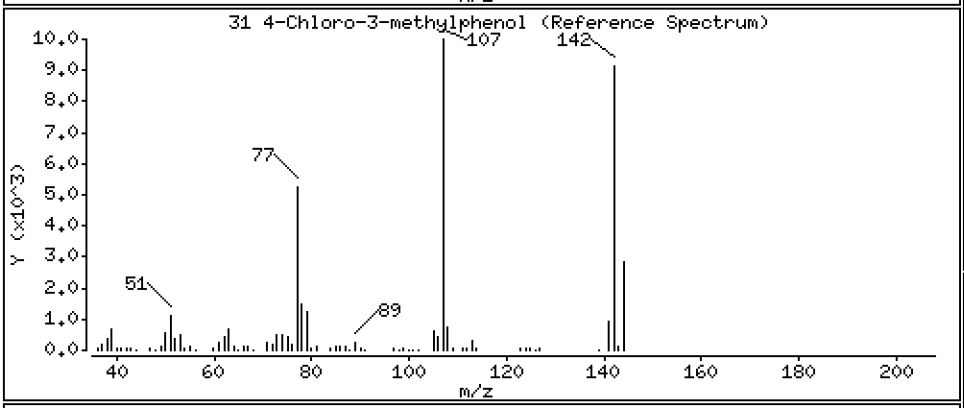
Column diameter: 0.25

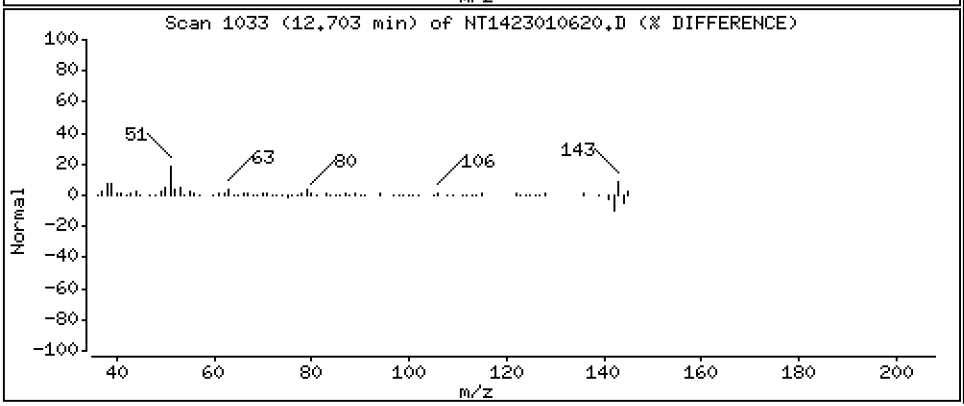
31 4-Chloro-3-methylphenol

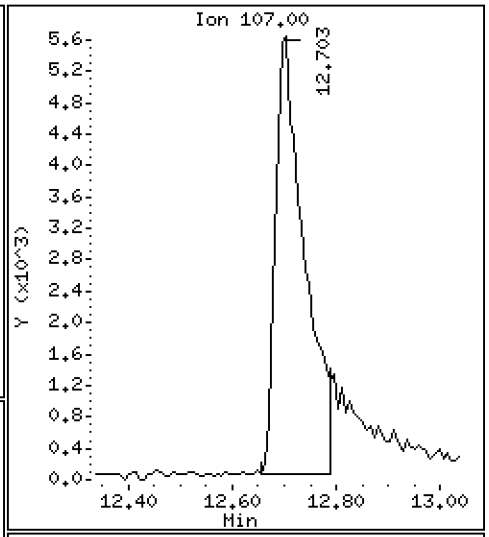
Concentration: 0.5836 ug/mL

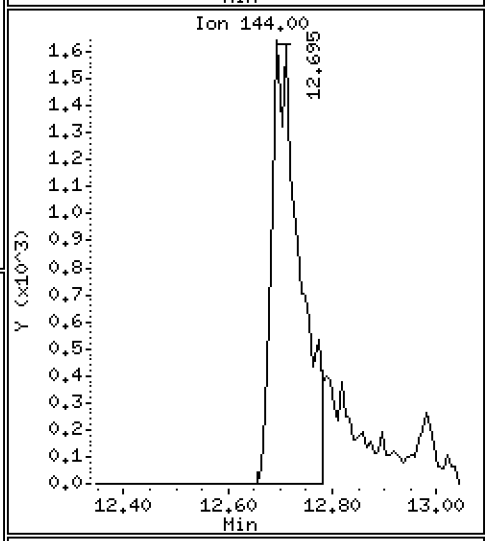


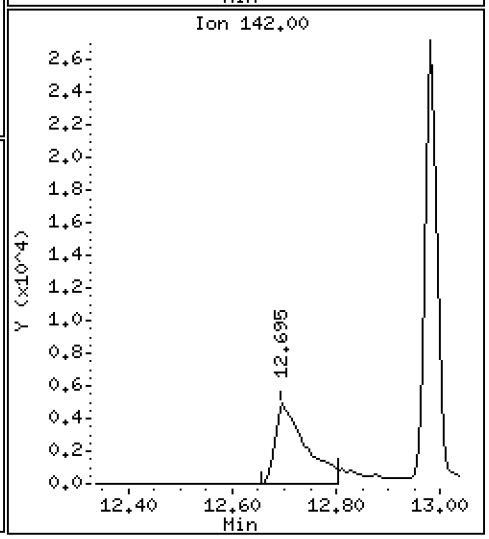












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

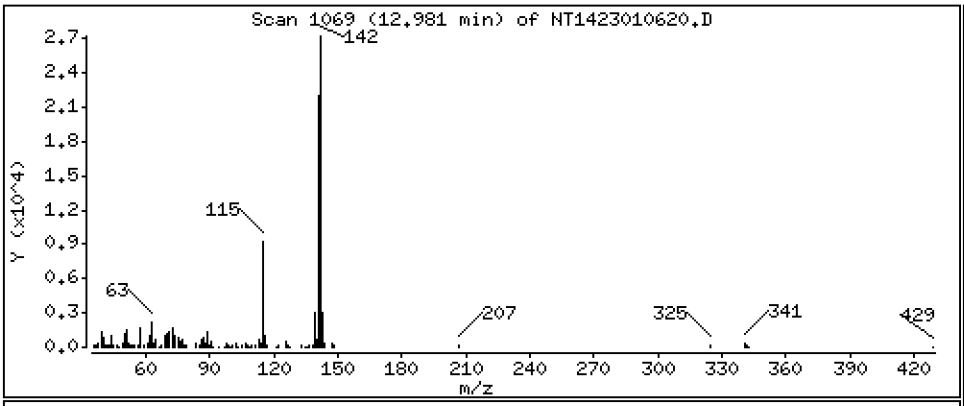
Operator: VTS

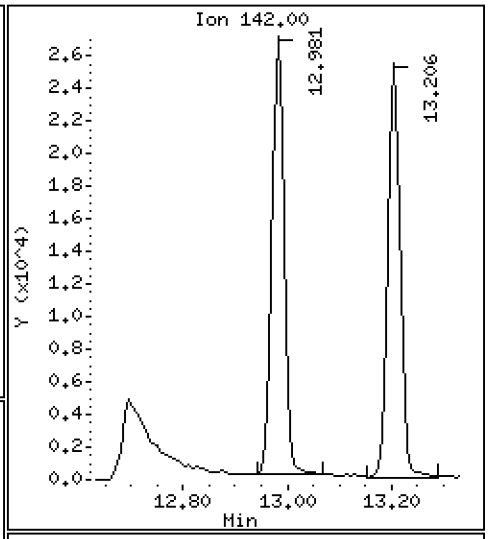
Column phase: ZB-5msi

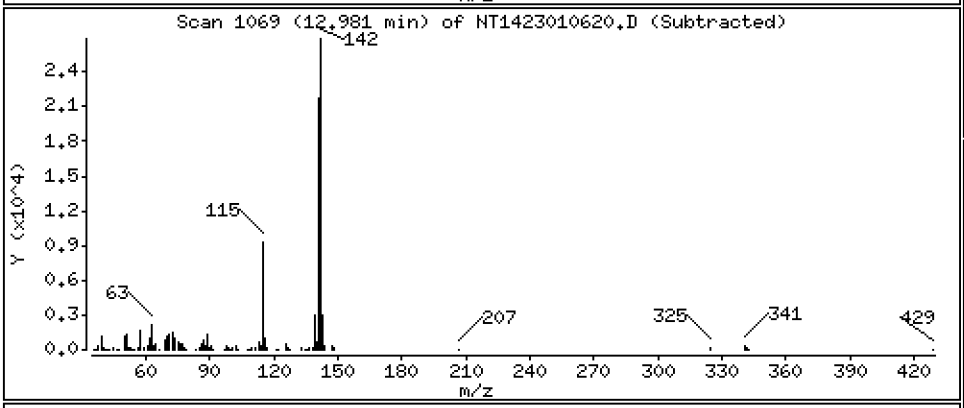
Column diameter: 0.25

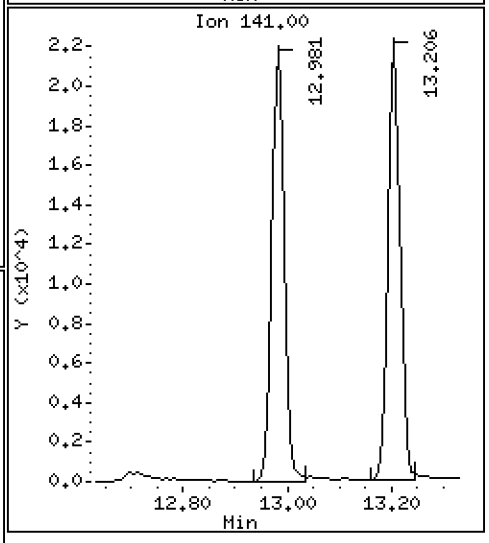
32 2-Methylnaphthalene

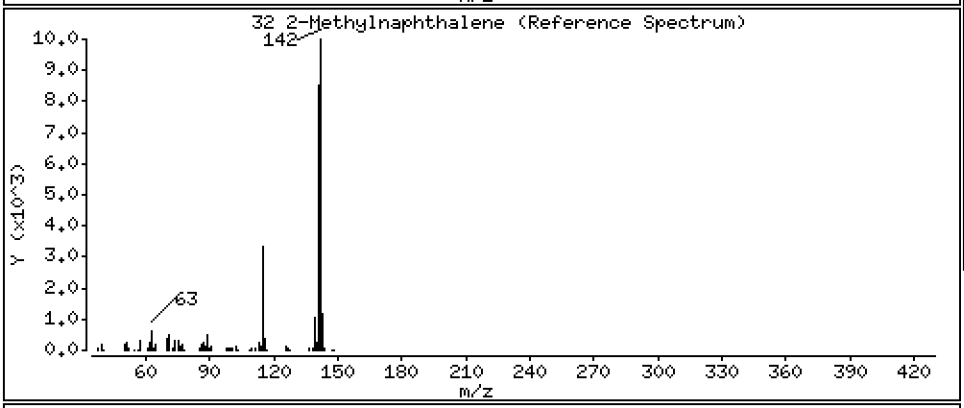
Concentration: 0.4307 ug/mL

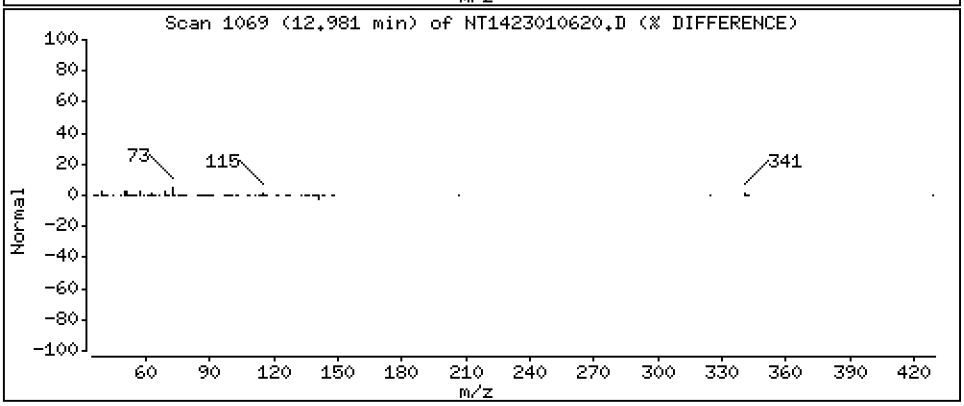












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

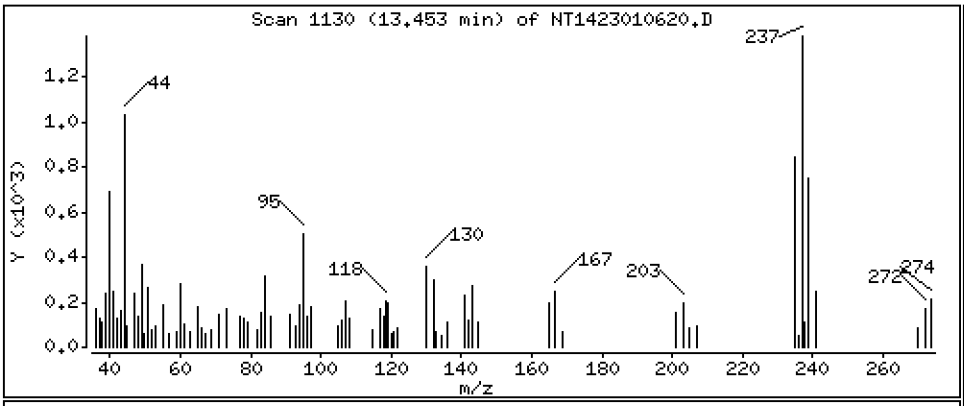
Operator: VTS

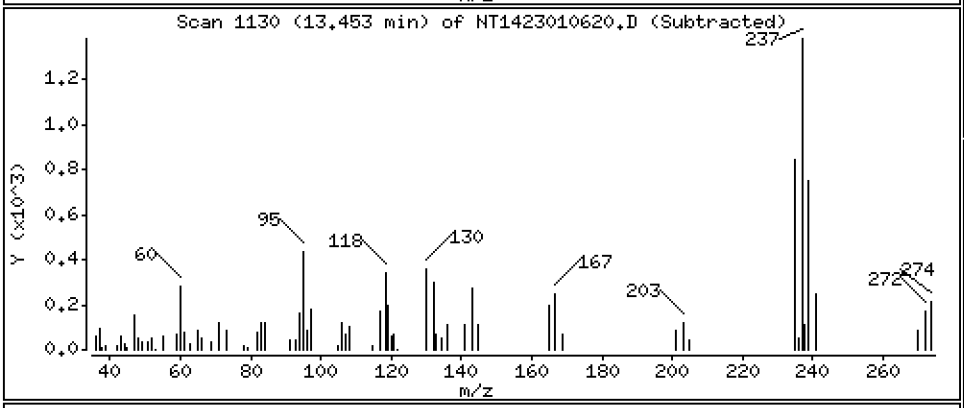
Column phase: ZB-5msi

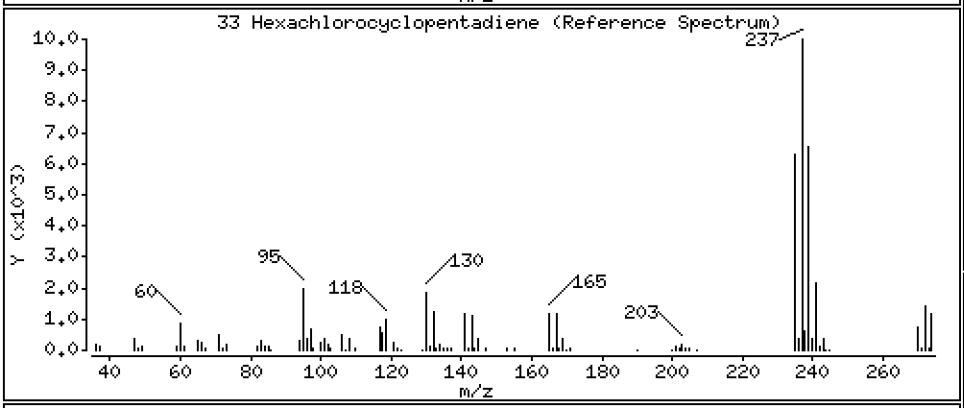
Column diameter: 0.25

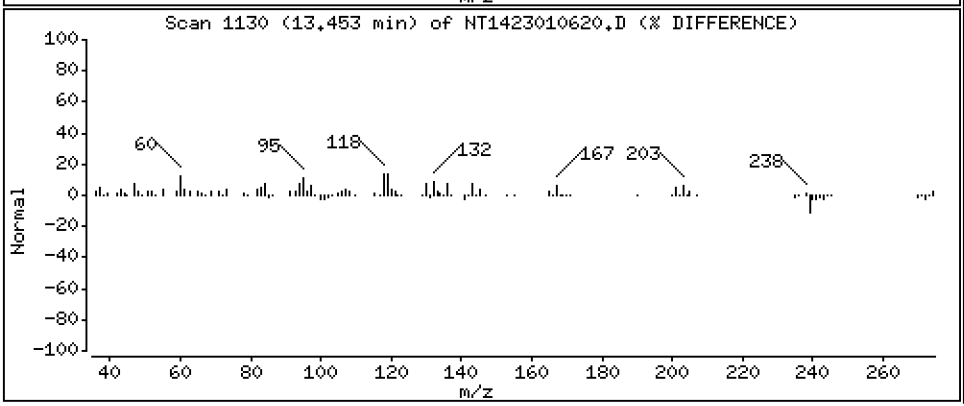
33 Hexachlorocyclopentadiene

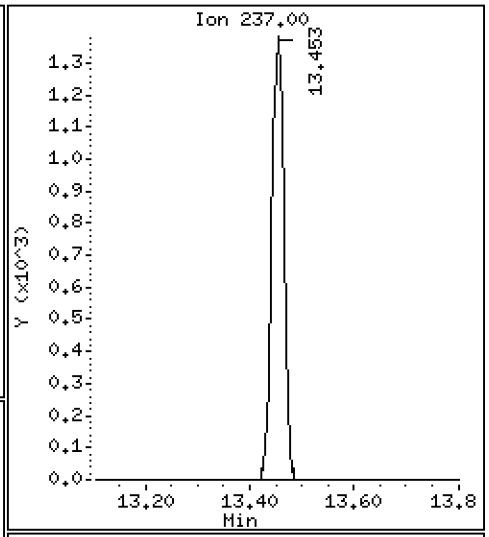
Concentration: 0.1043 ug/mL

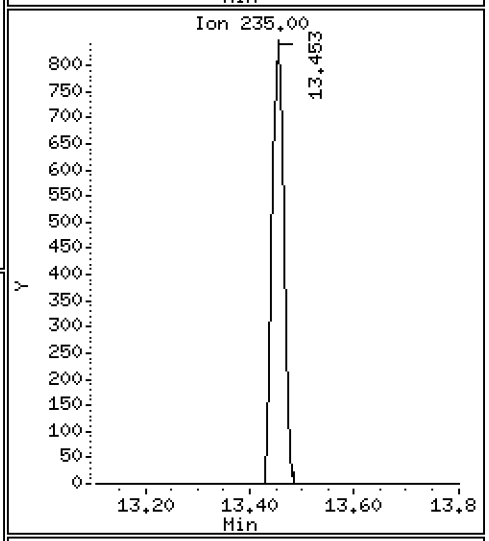


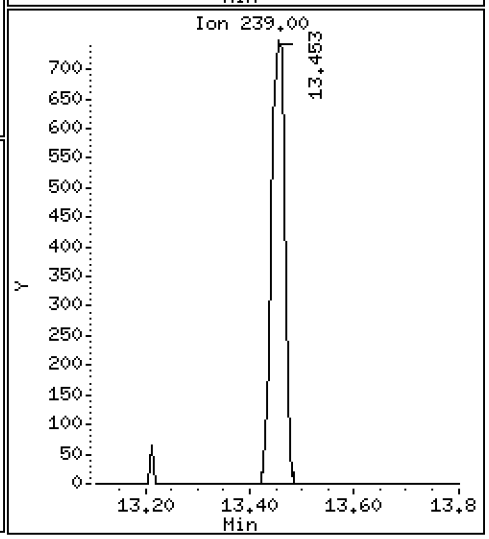












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

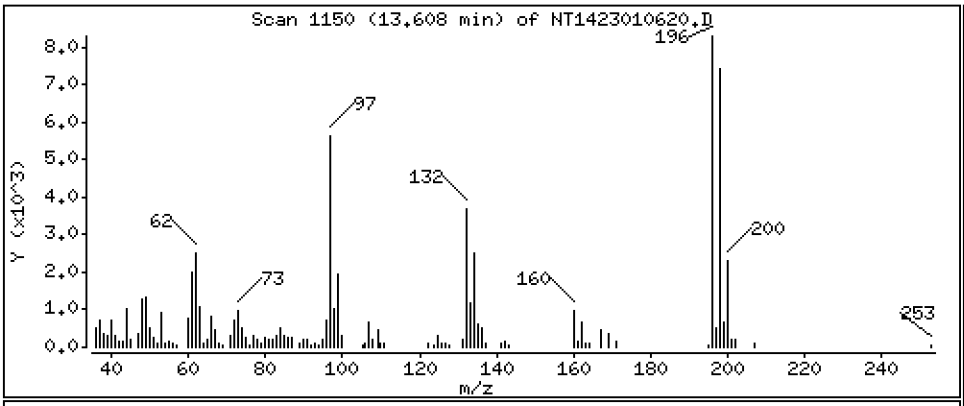
Operator: VTS

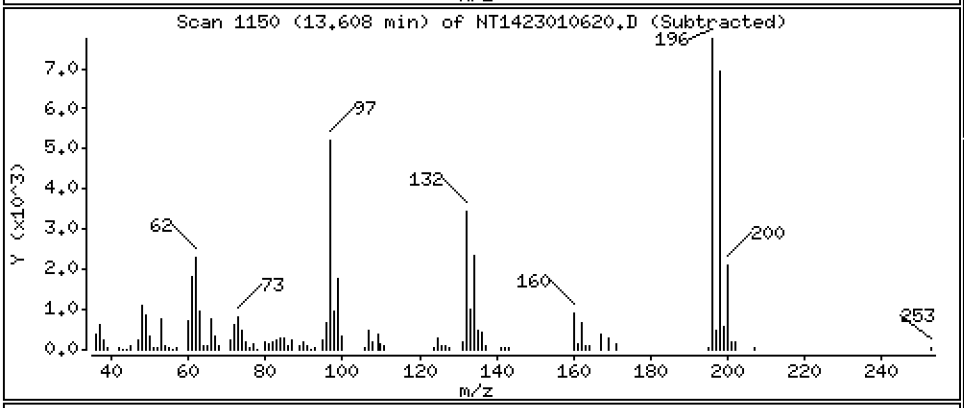
Column phase: ZB-5msi

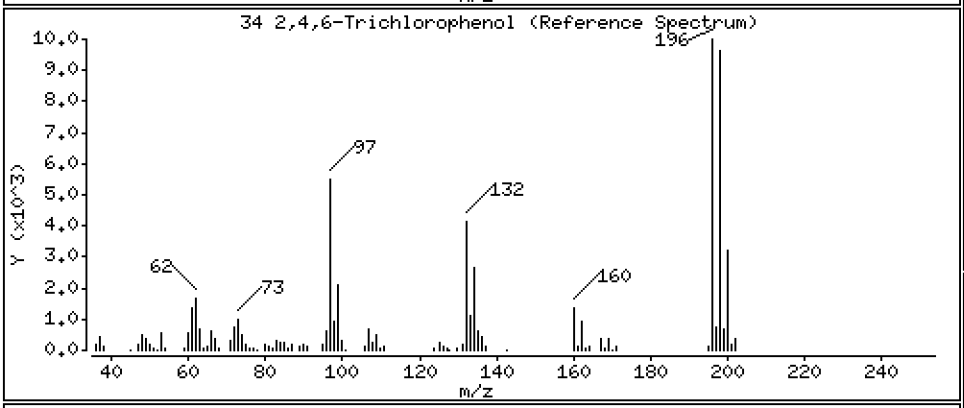
Column diameter: 0.25

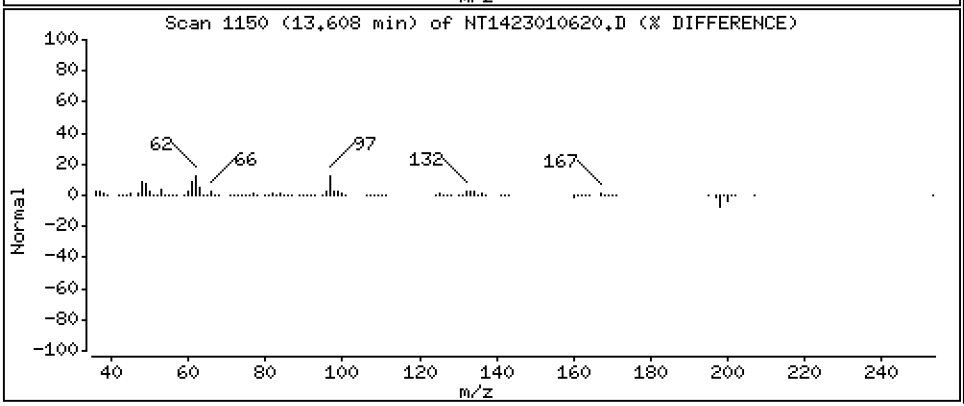
34 2,4,6-Trichlorophenol

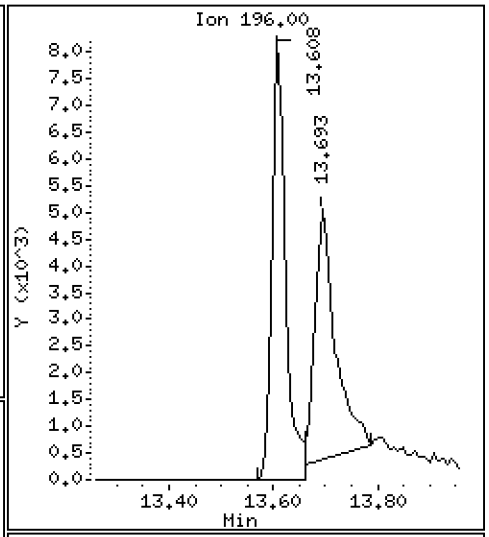
Concentration: 0.6356 ug/mL

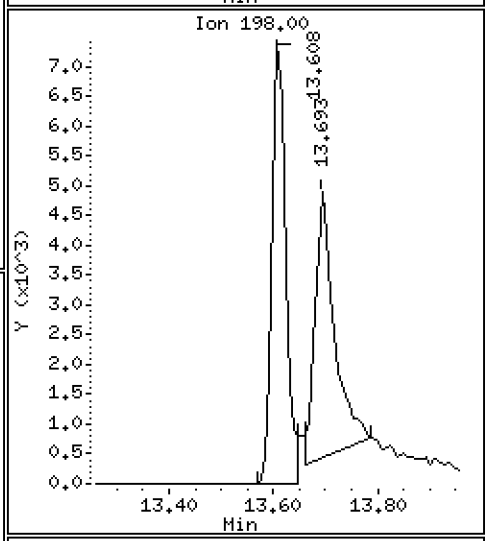


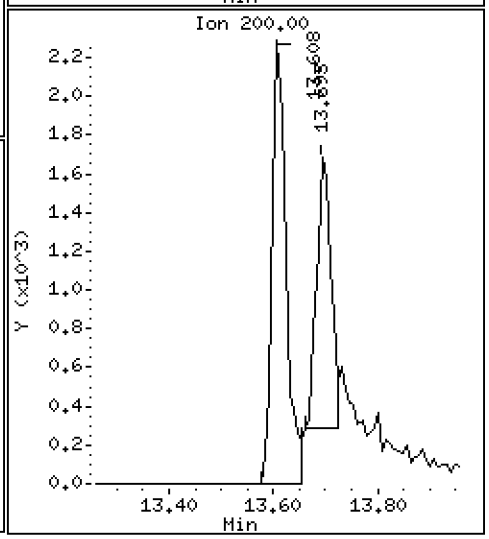












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

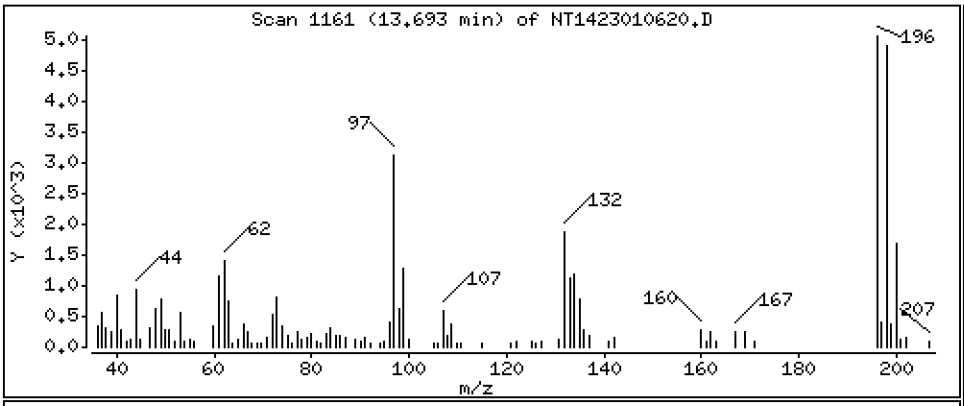
Operator: VTS

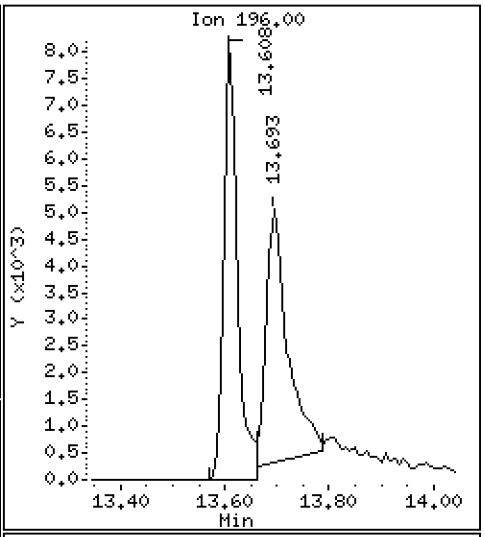
Column phase: ZB-5msi

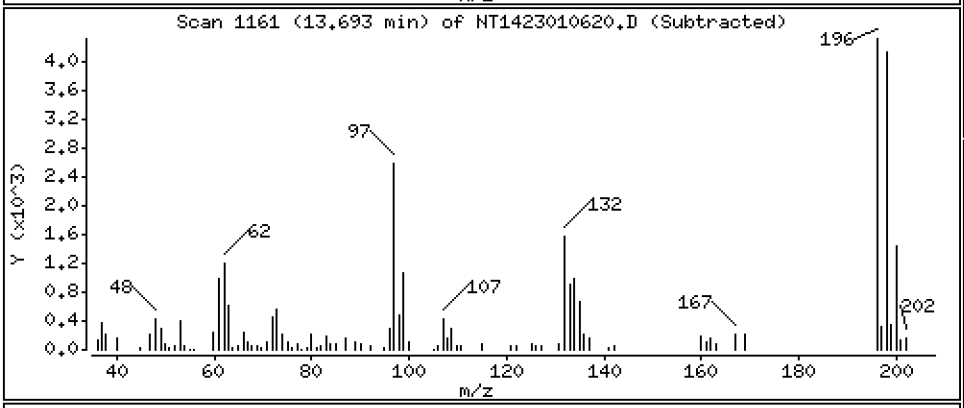
Column diameter: 0.25

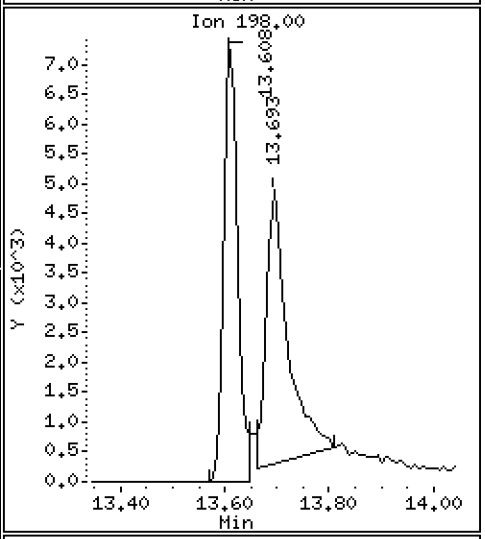
35 2,4,5-Trichlorophenol

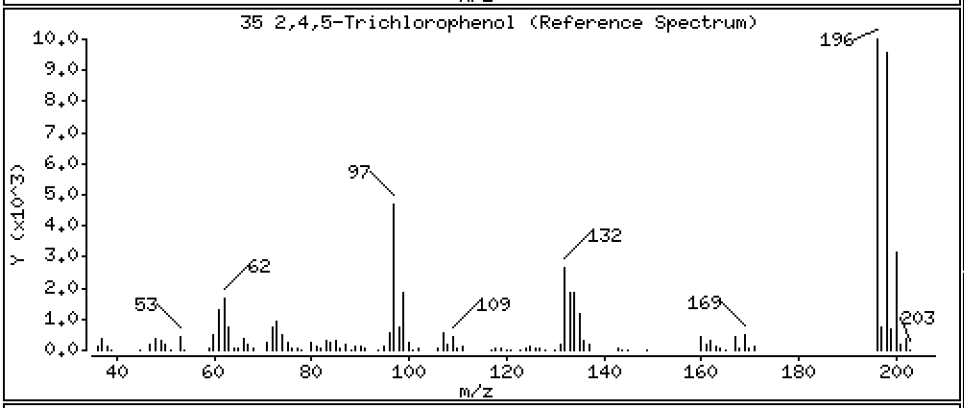
Concentration: 0.5236 ug/mL

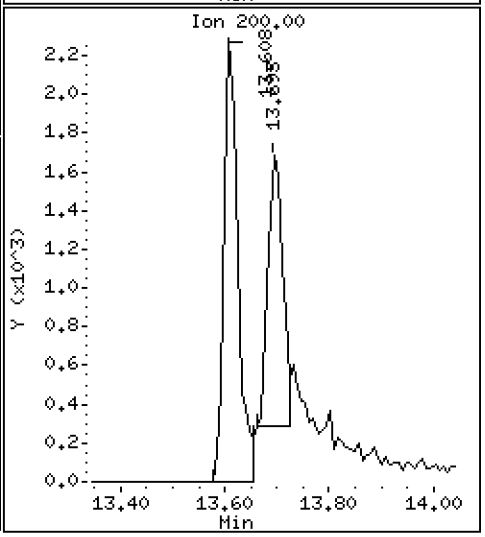


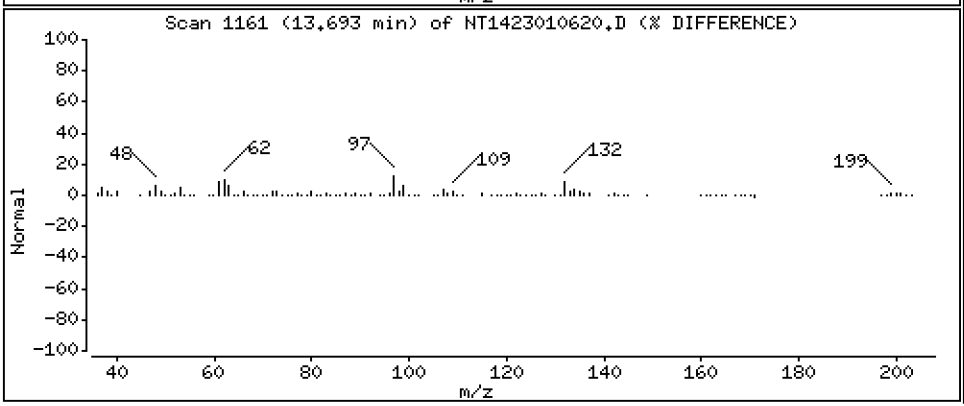












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

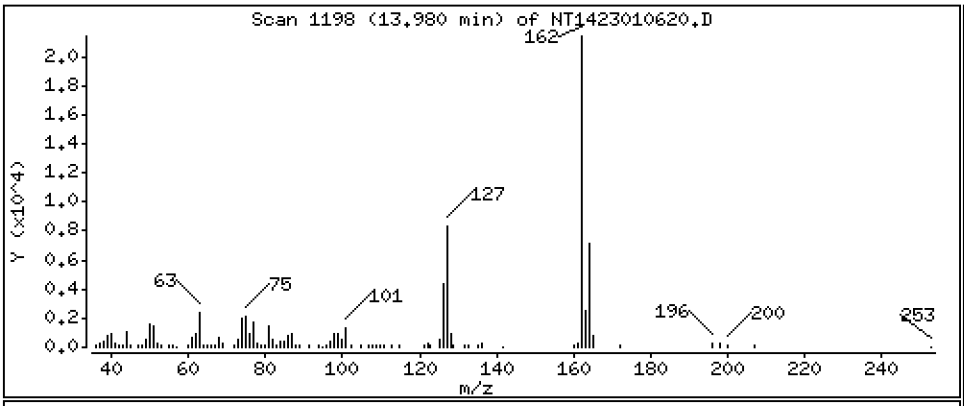
Operator: VTS

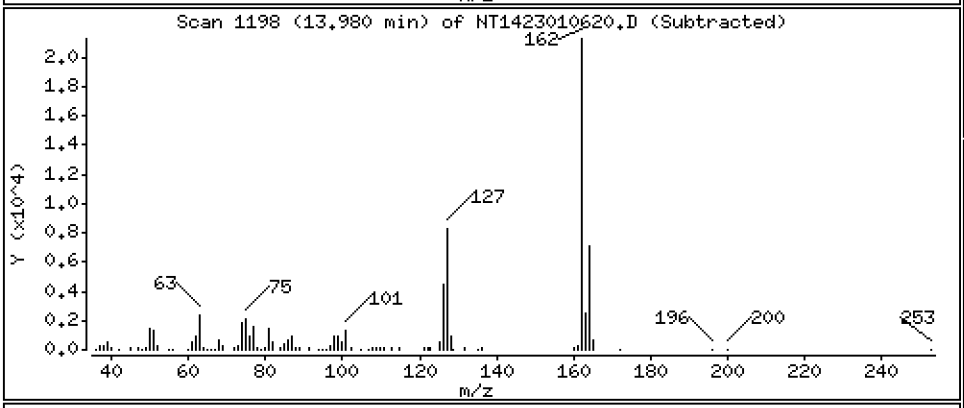
Column phase: ZB-5msi

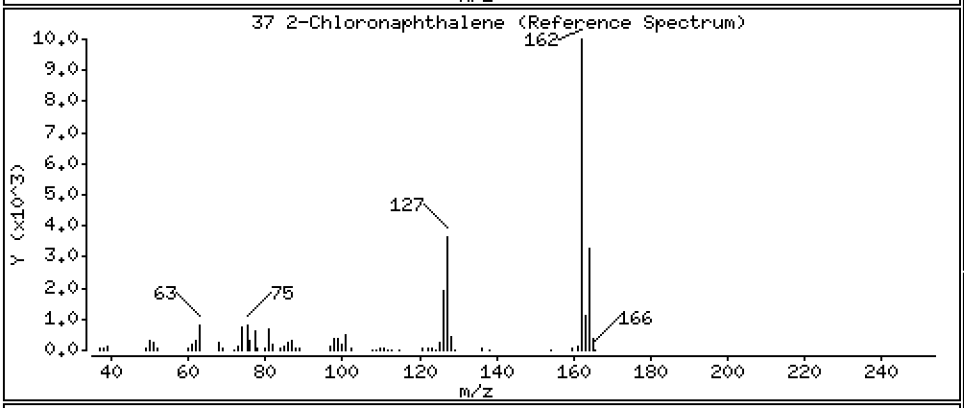
Column diameter: 0.25

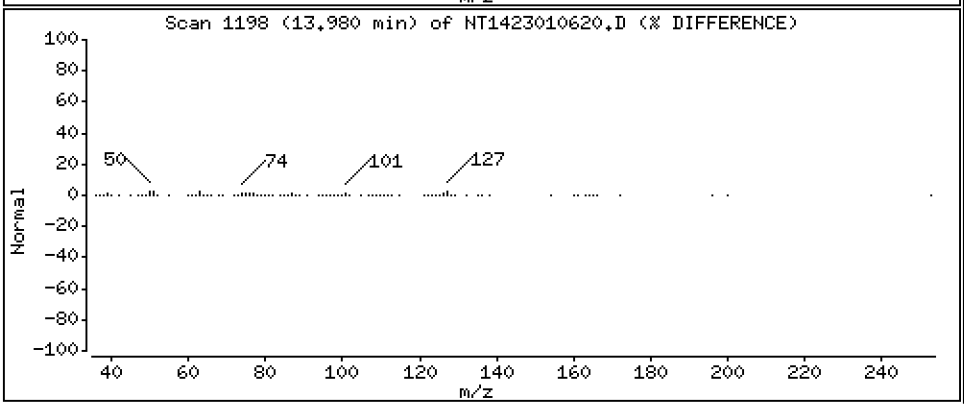
37 2-Chloronaphthalene

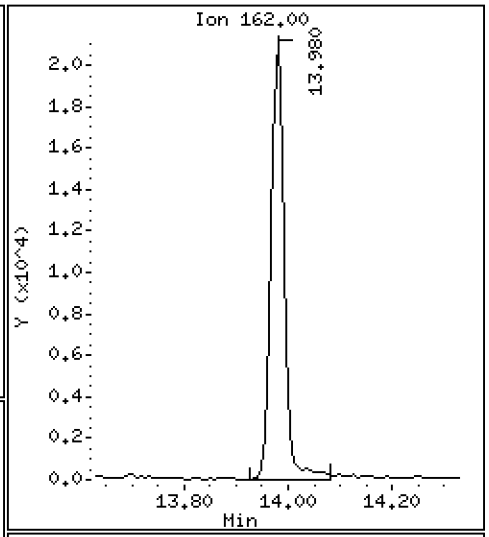
Concentration: 0.4689 ug/mL

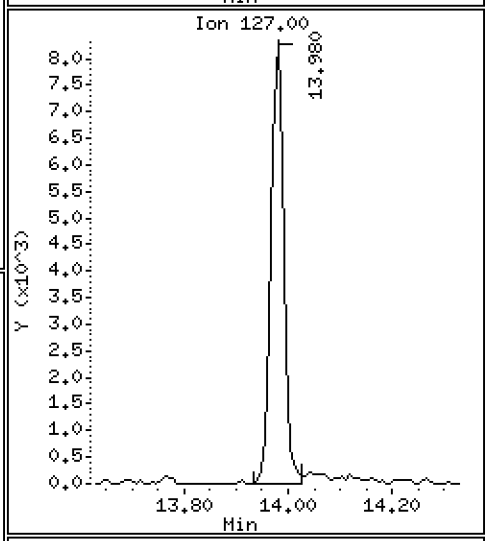


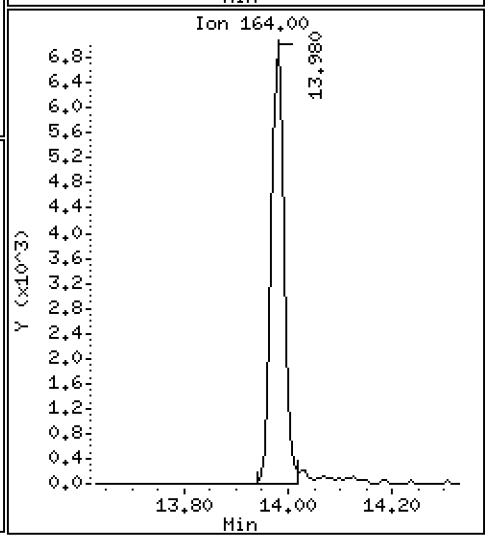












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

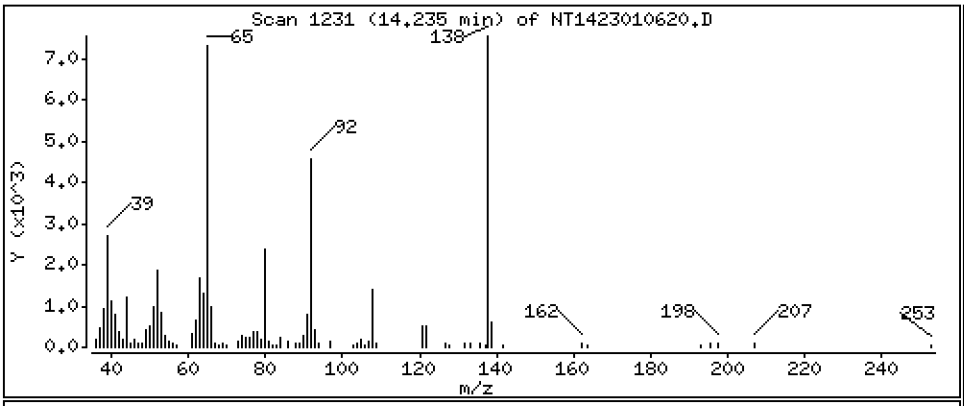
Operator: VTS

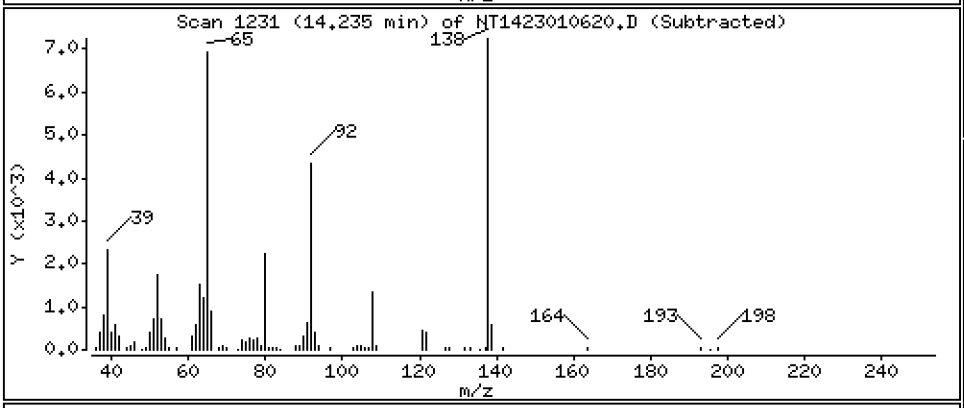
Column phase: ZB-5msi

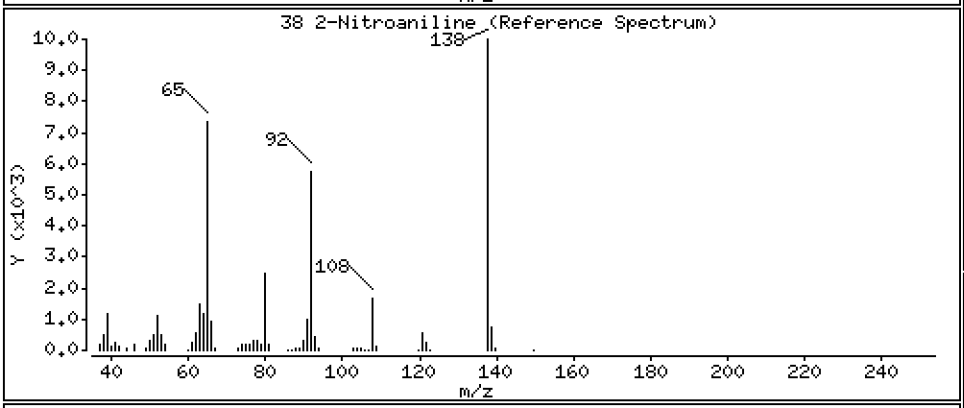
Column diameter: 0.25

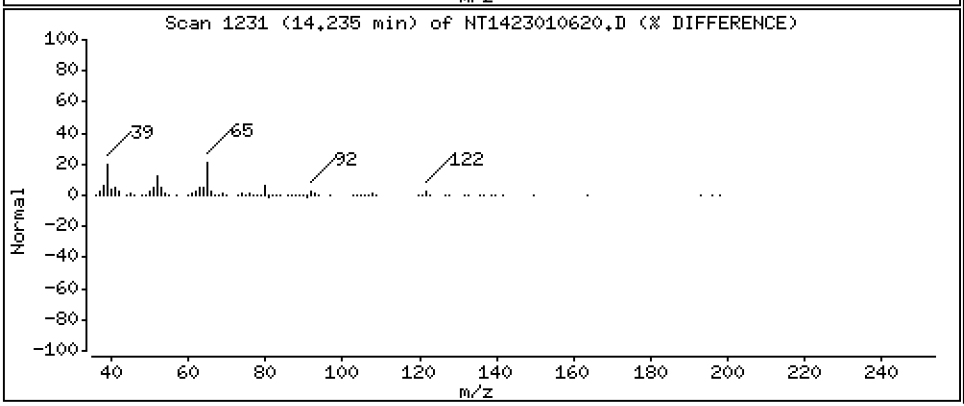
38 2-Nitroaniline

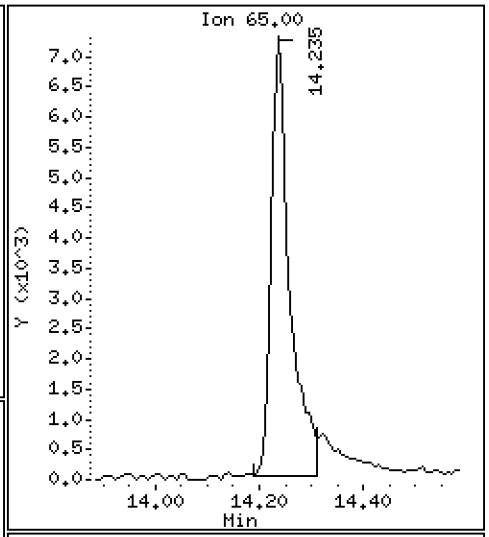
Concentration: 0.8760 ug/mL

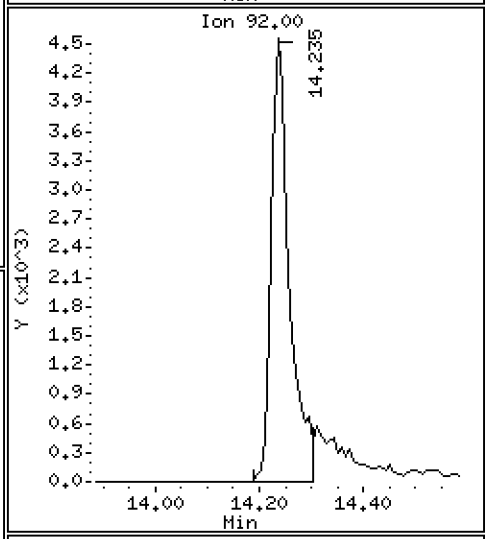


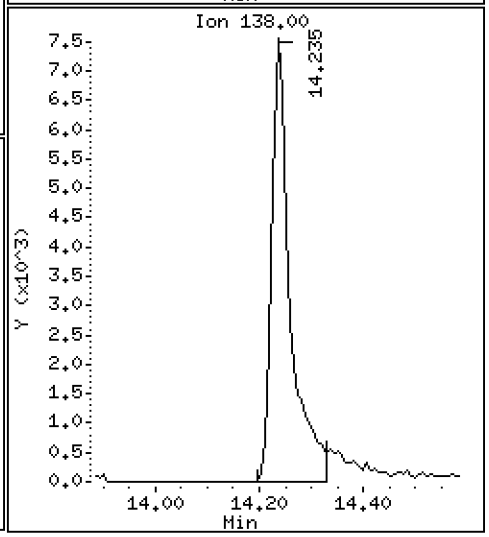












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

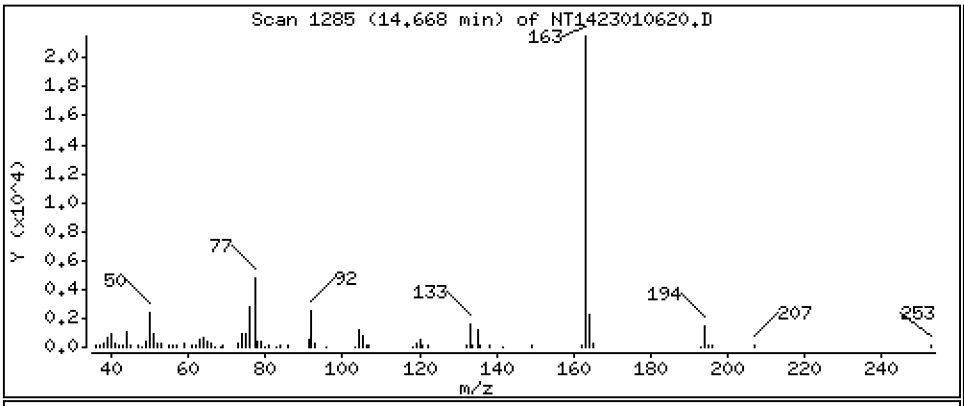
Operator: VTS

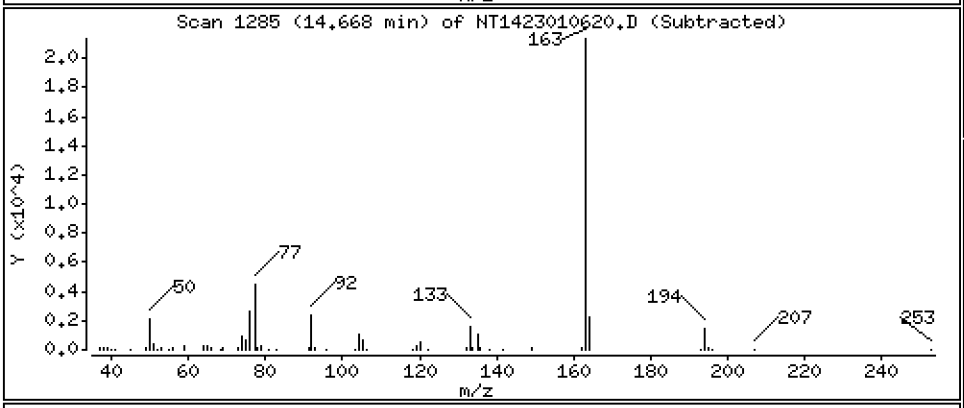
Column phase: ZB-5msi

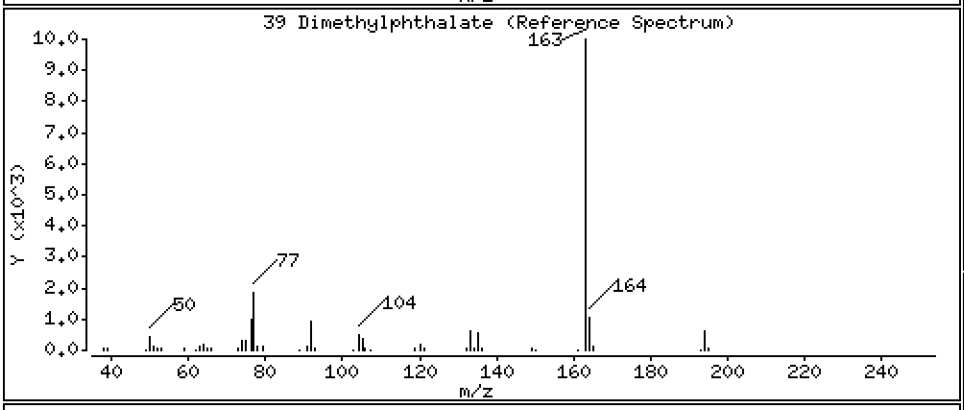
Column diameter: 0.25

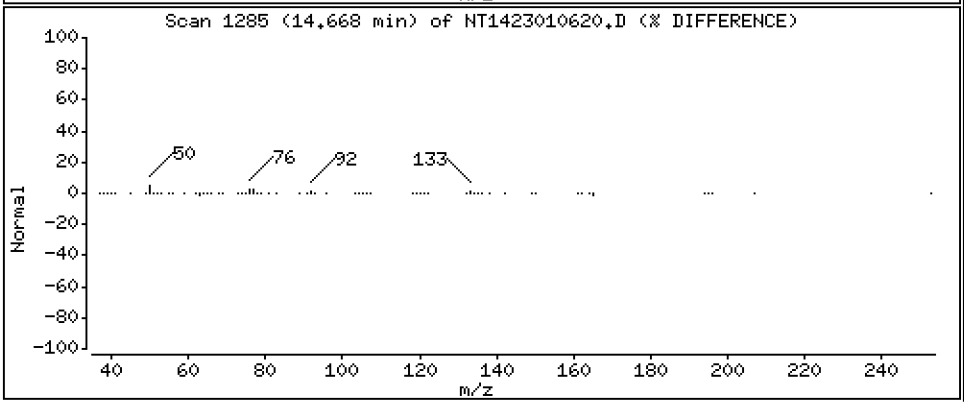
39 Dimethylphthalate

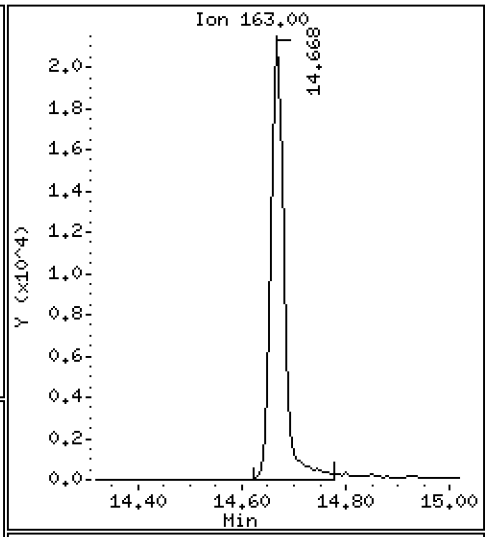
Concentration: 0.4849 ug/mL

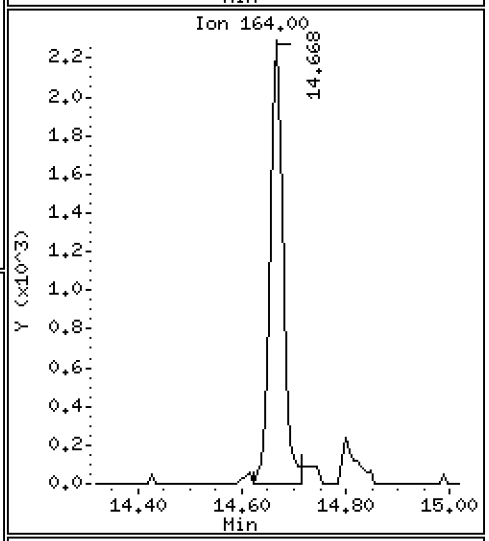


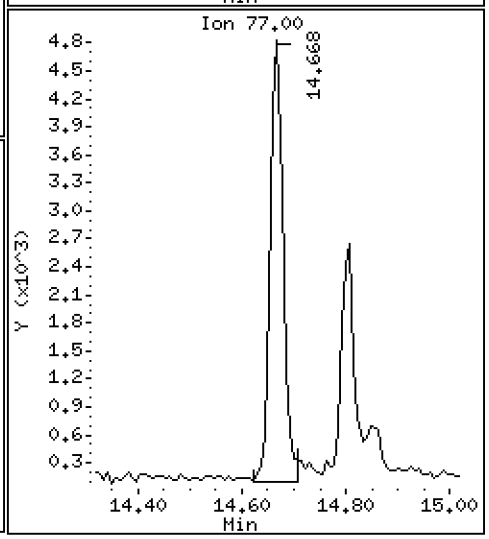












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

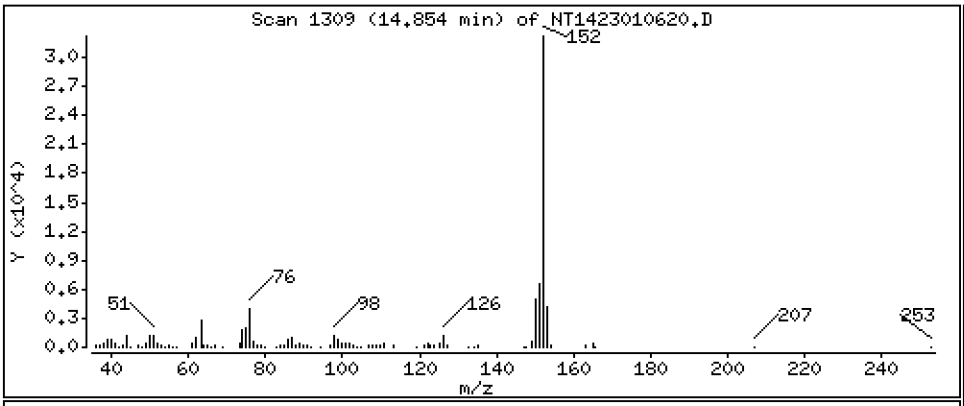
Operator: VTS

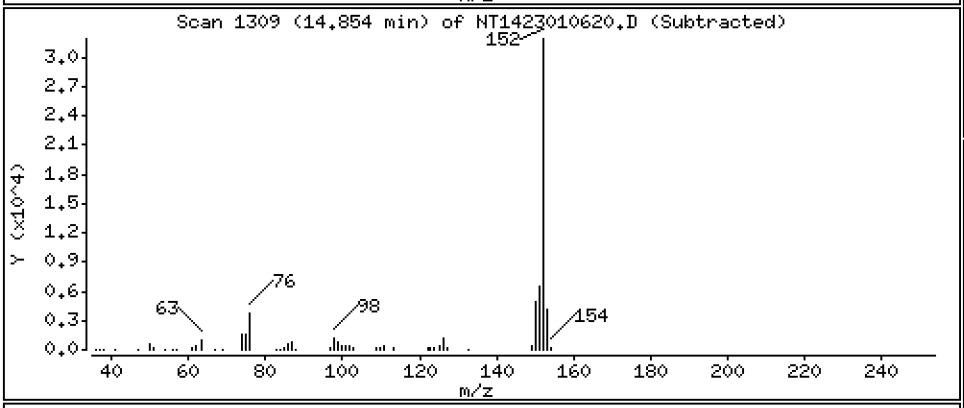
Column phase: ZB-5msi

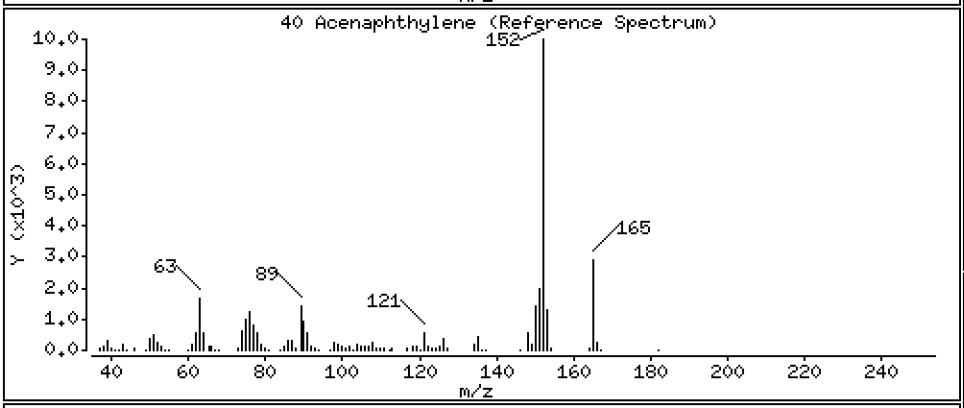
Column diameter: 0.25

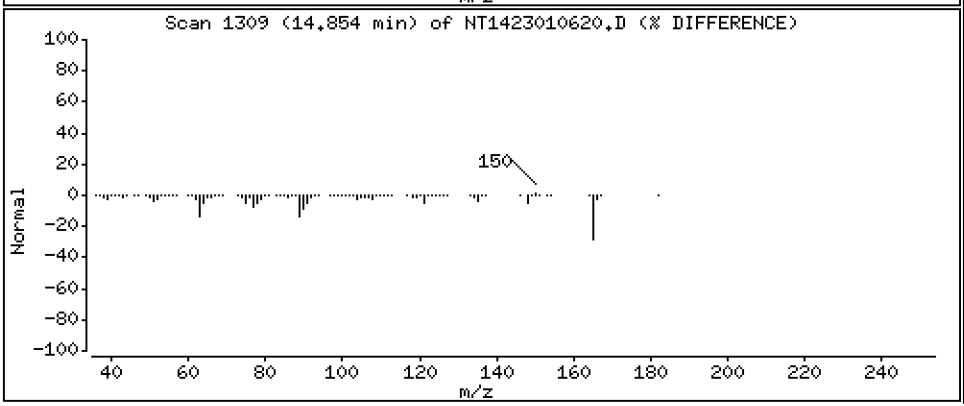
40 Acenaphthylene

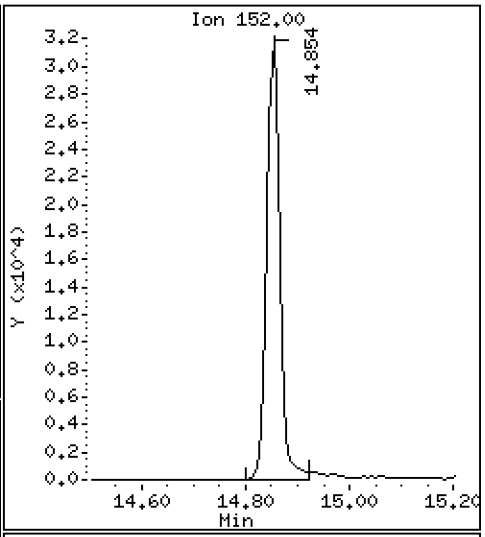
Concentration: 0.4583 ug/mL

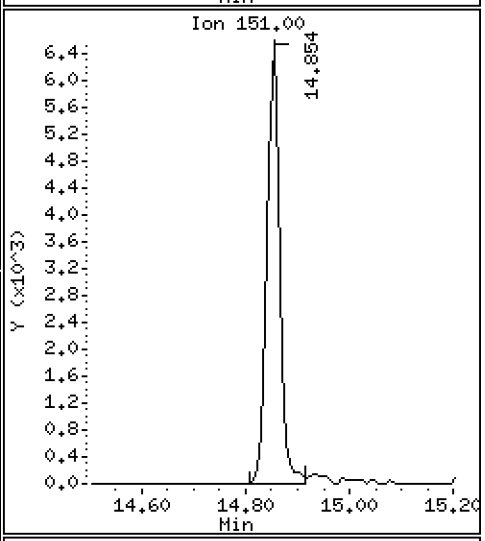


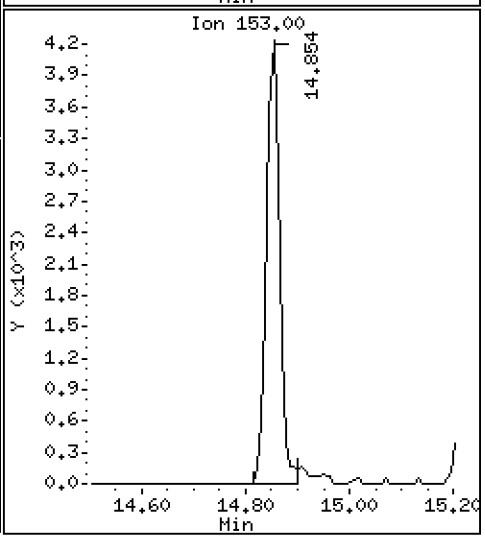












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

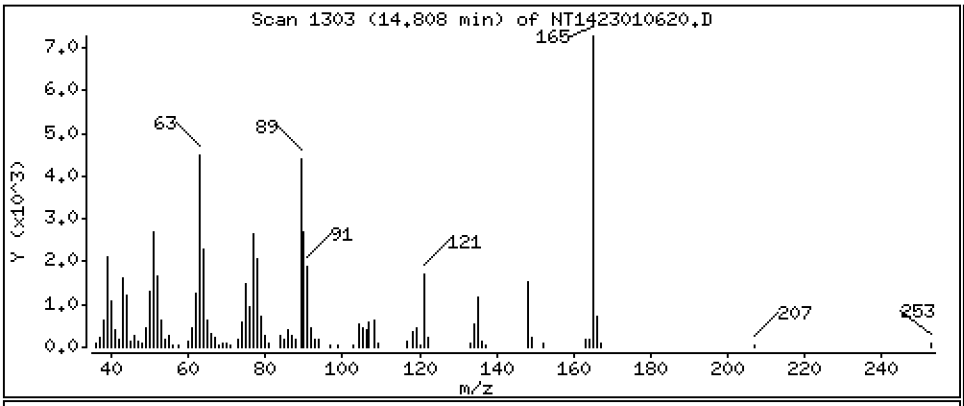
Operator: VTS

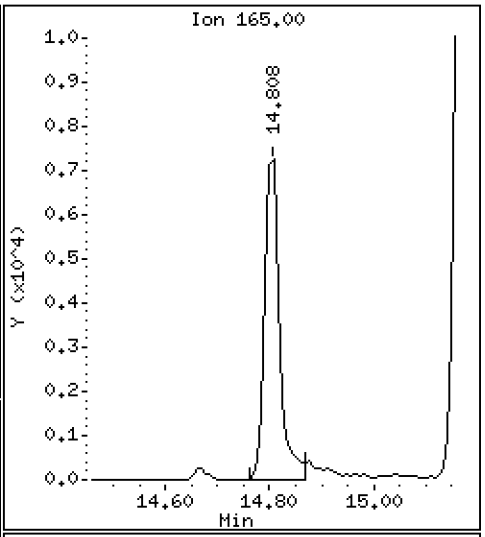
Column phase: ZB-5msi

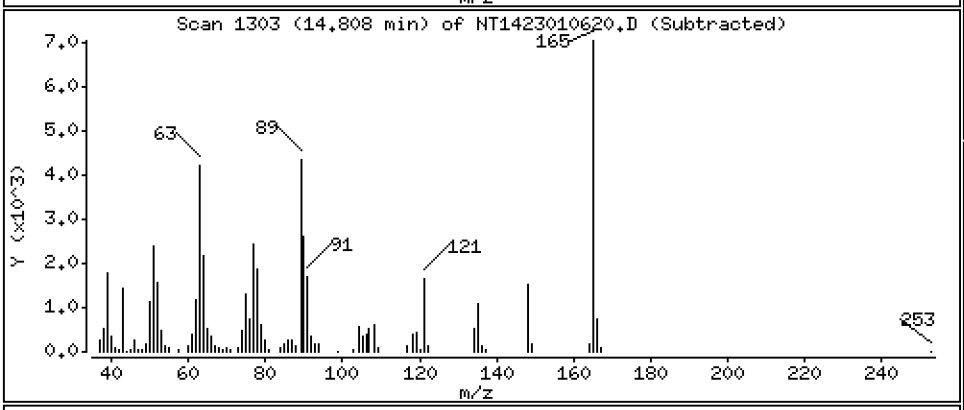
Column diameter: 0.25

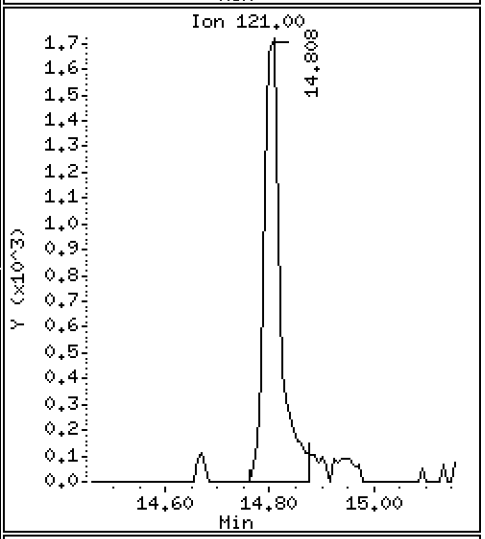
41 2,6-Dinitrotoluene

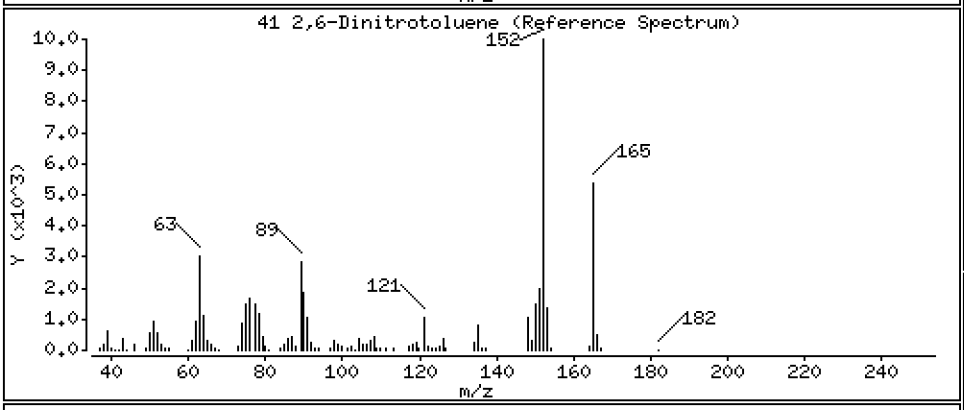
Concentration: 0.8294 ug/mL

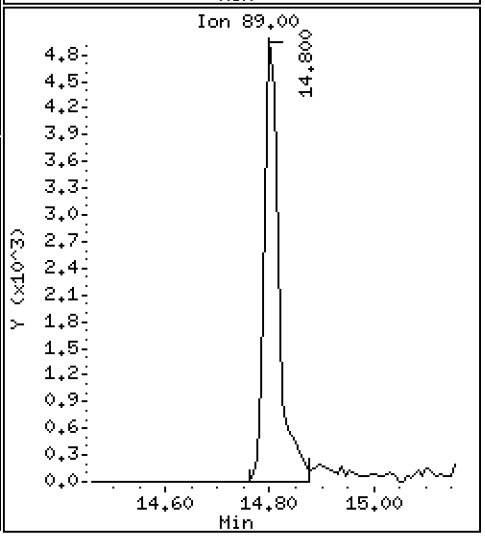


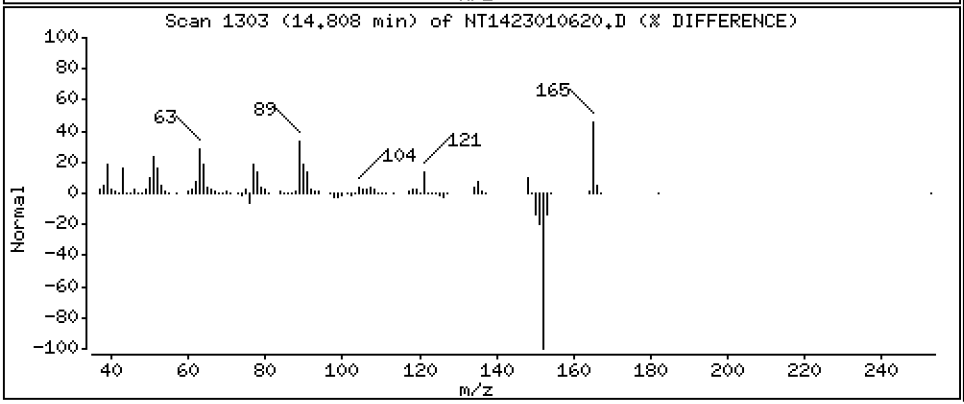












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

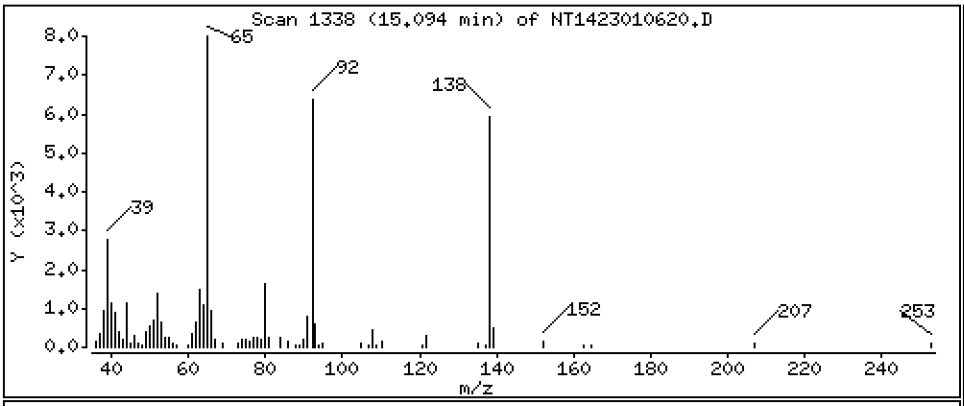
Operator: VTS

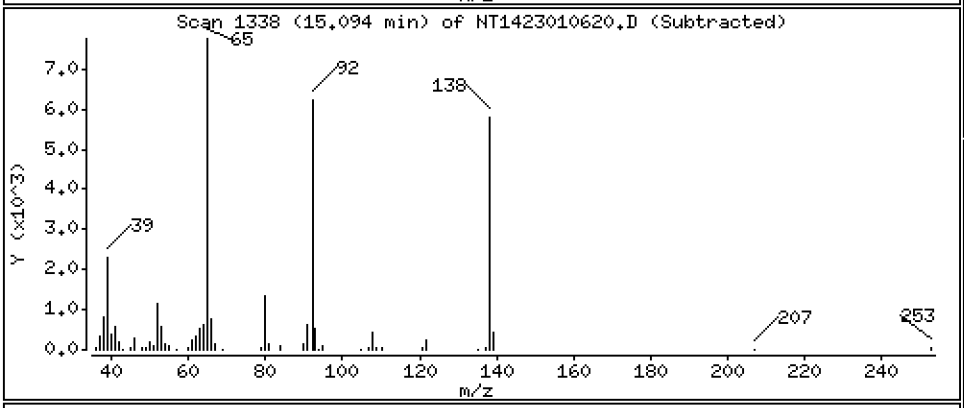
Column phase: ZB-5msi

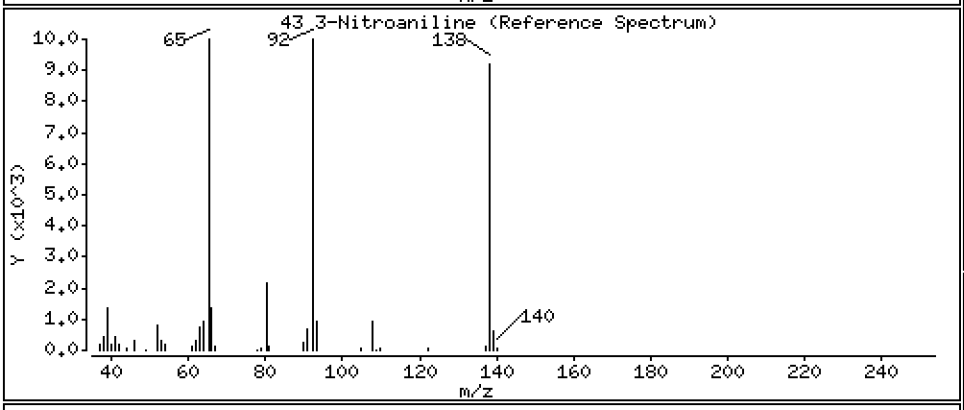
Column diameter: 0.25

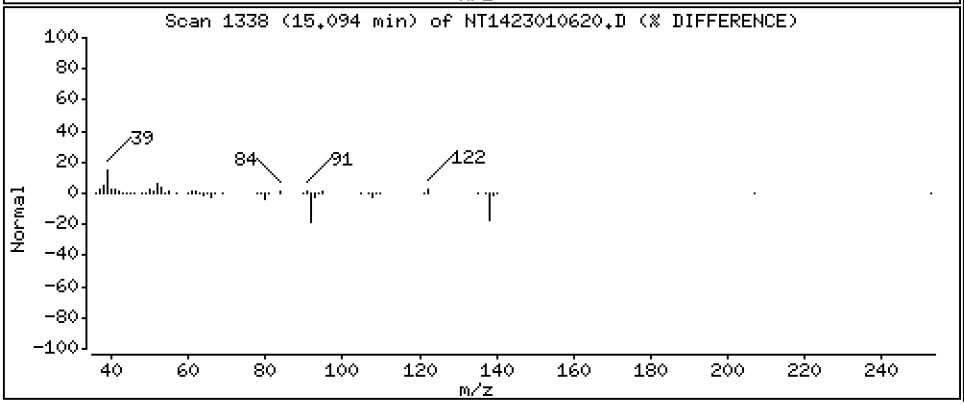
43 3-Nitroaniline

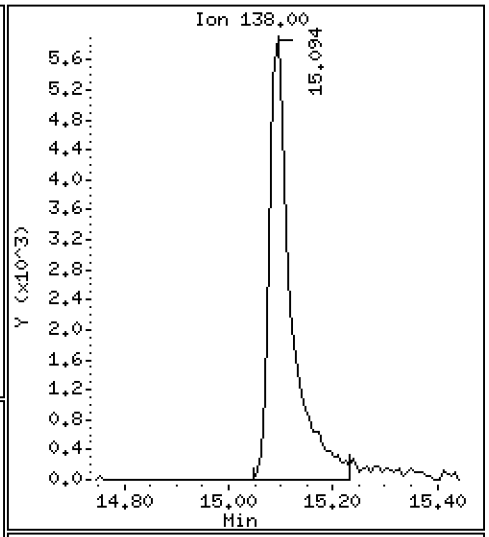
Concentration: 0.8182 ug/mL

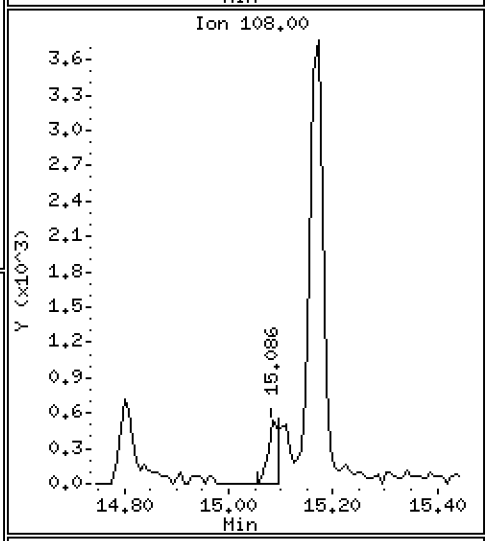


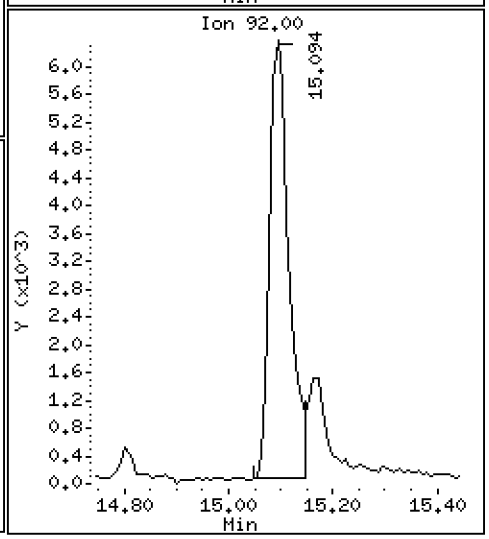












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

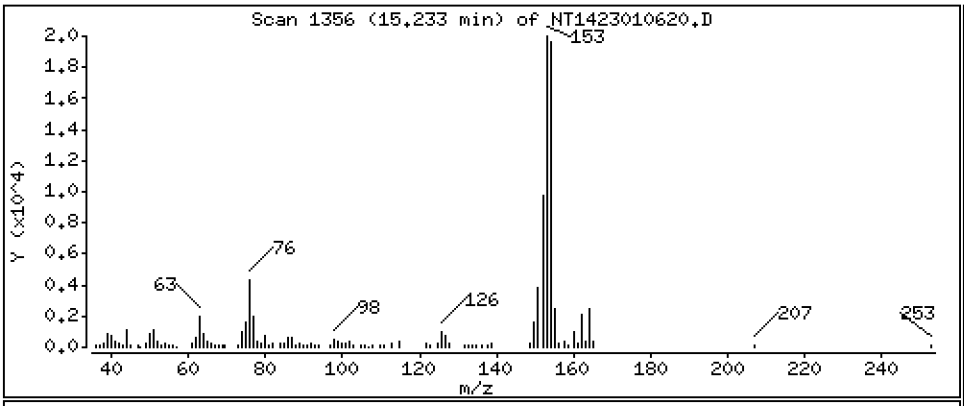
Operator: VTS

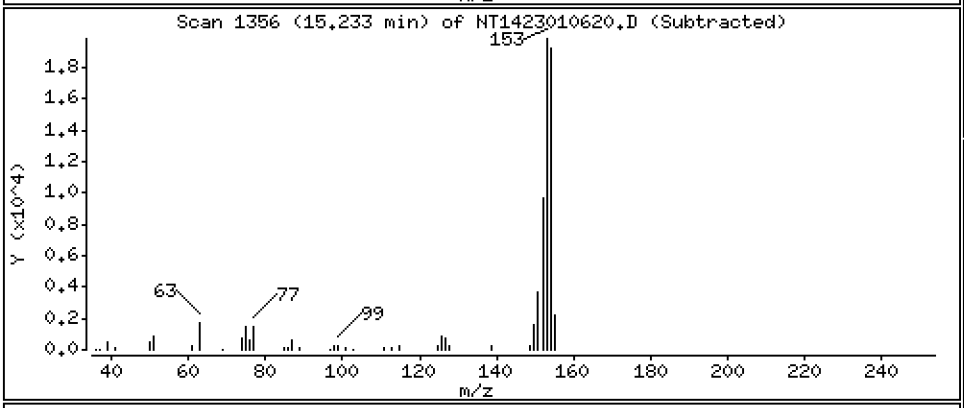
Column phase: ZB-5msi

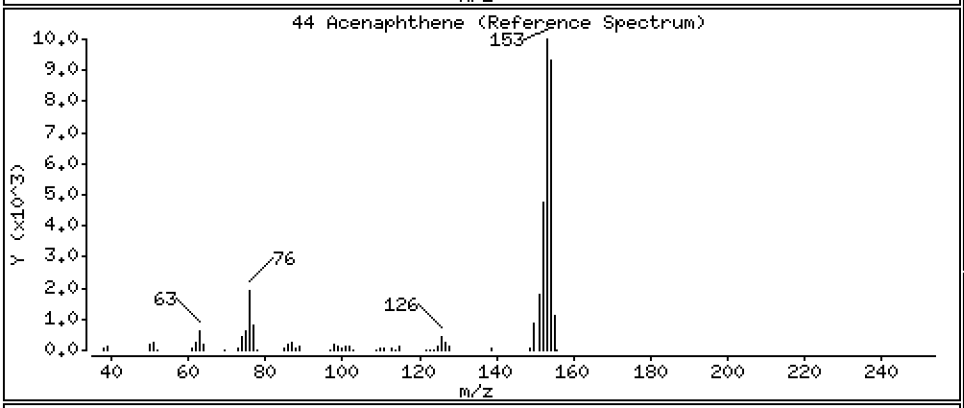
Column diameter: 0.25

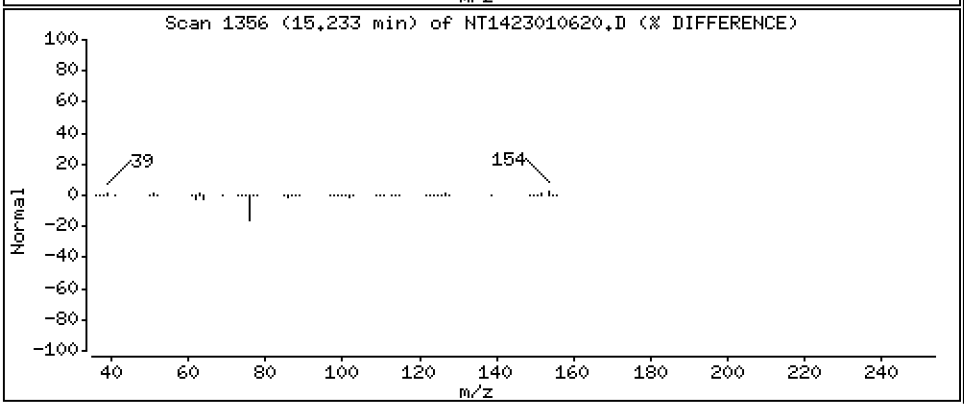
44 Acenaphthene

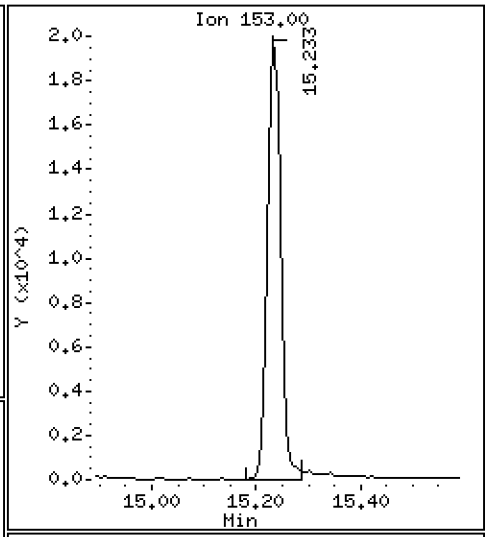
Concentration: 0.4660 ug/mL

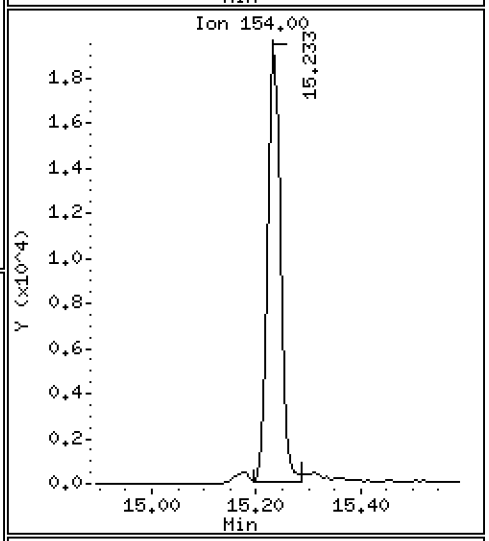


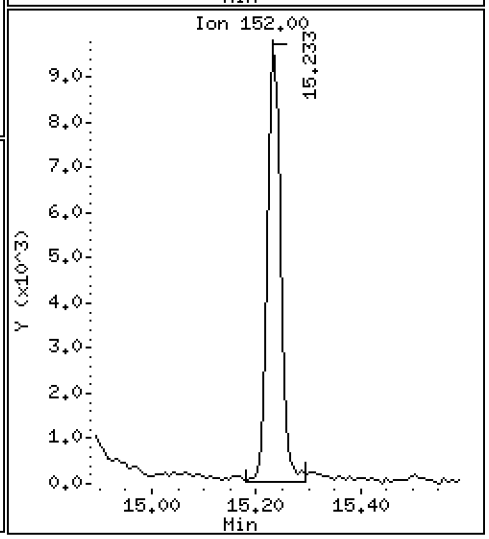












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

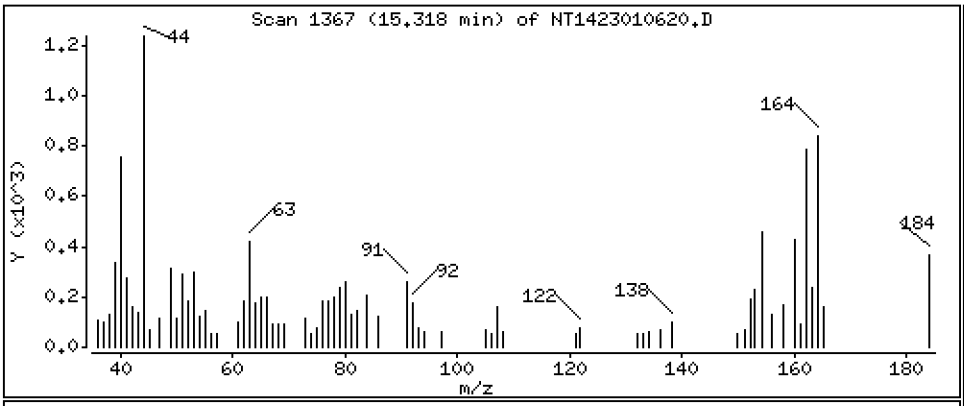
Operator: VTS

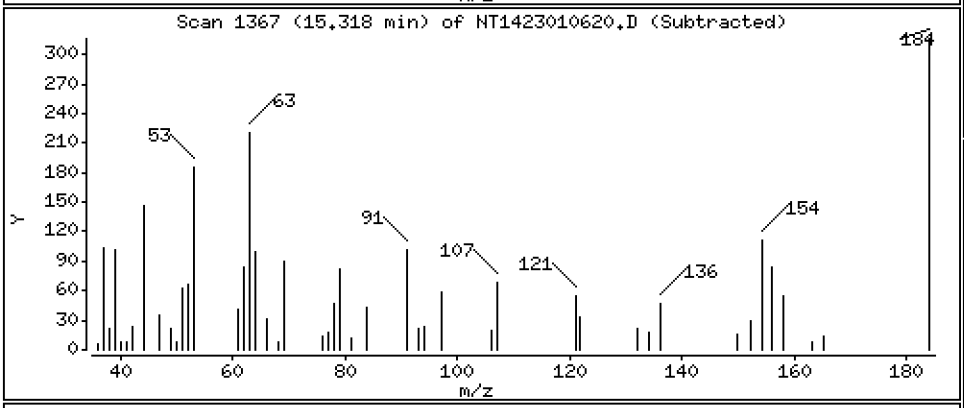
Column phase: ZB-5msi

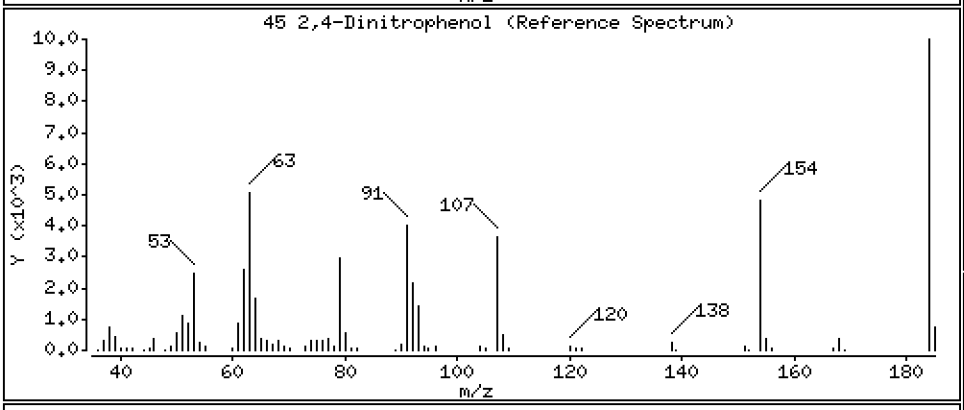
Column diameter: 0.25

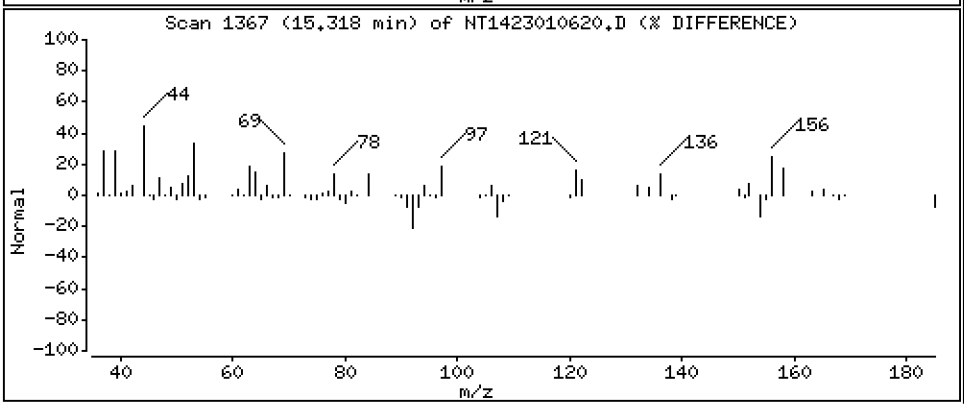
45 2,4-Dinitrophenol

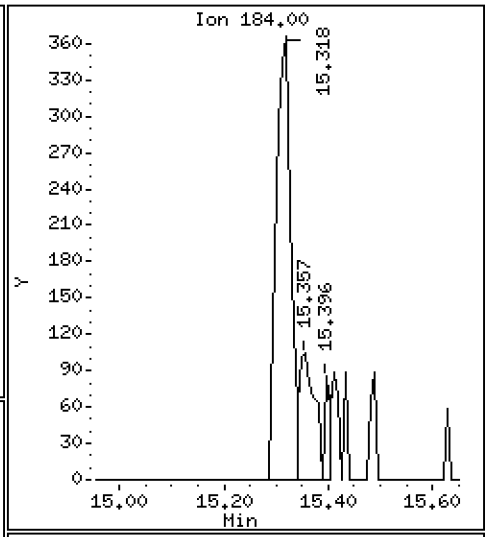
Concentration: 0.04962 ug/mL

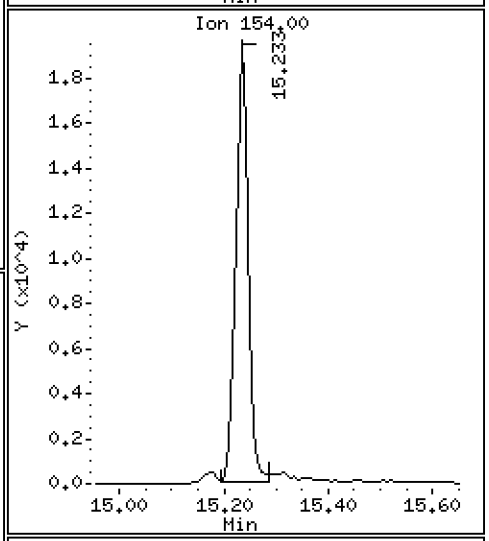


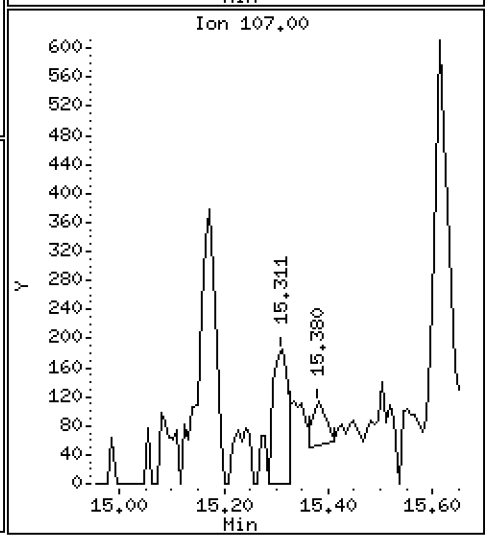












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

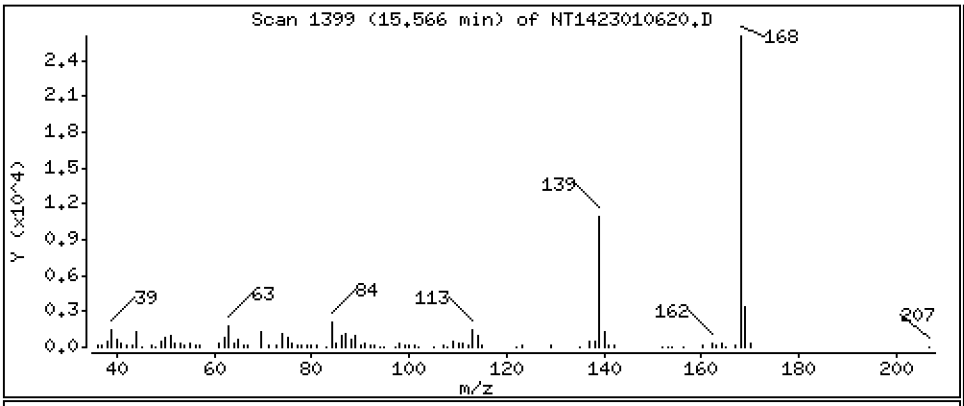
Operator: VTS

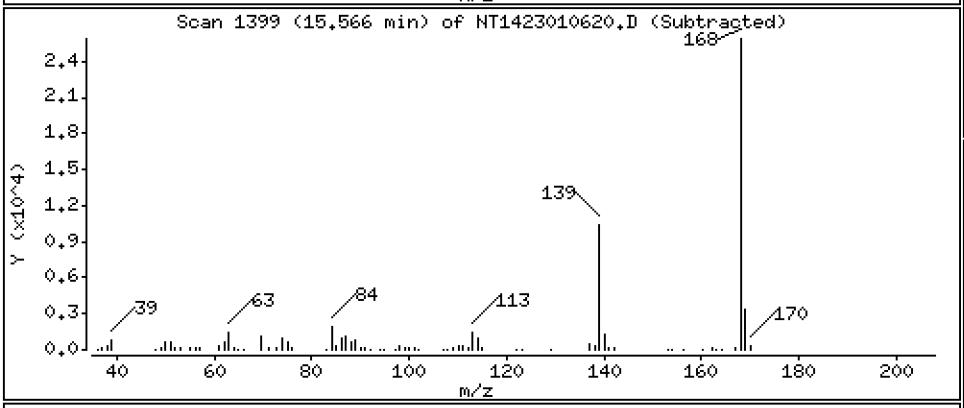
Column phase: ZB-5msi

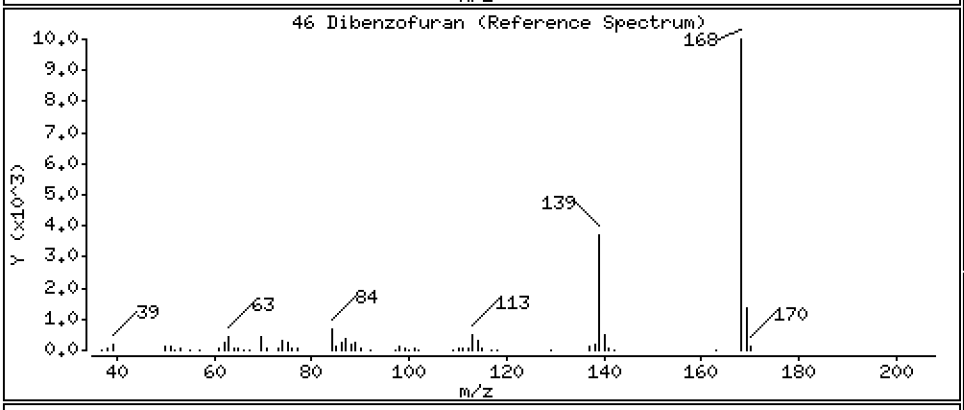
Column diameter: 0.25

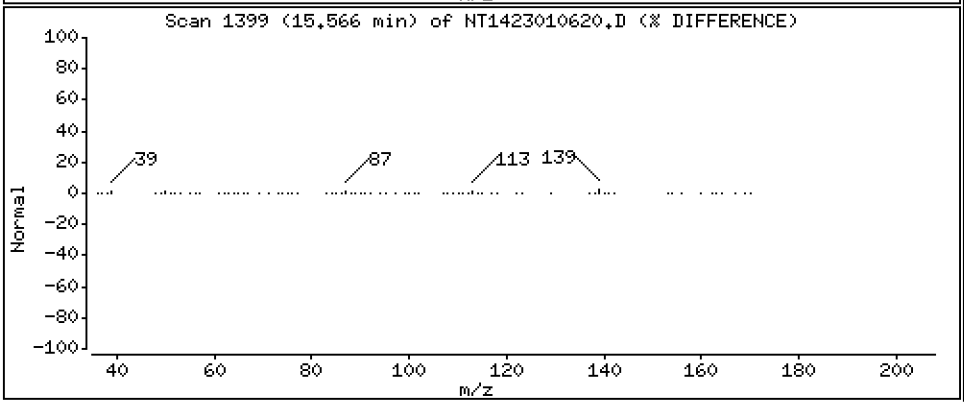
46 Dibenzofuran

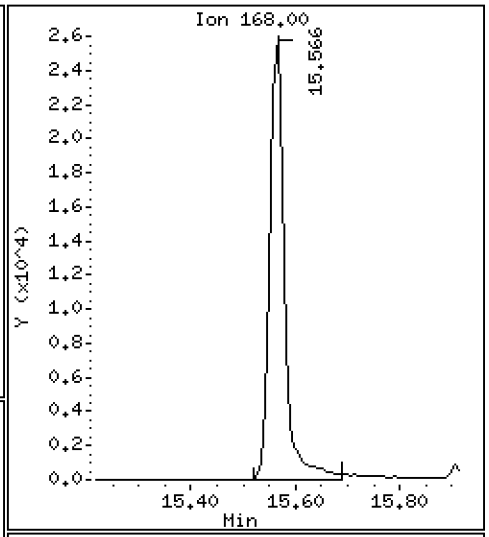
Concentration: 0.4526 ug/mL

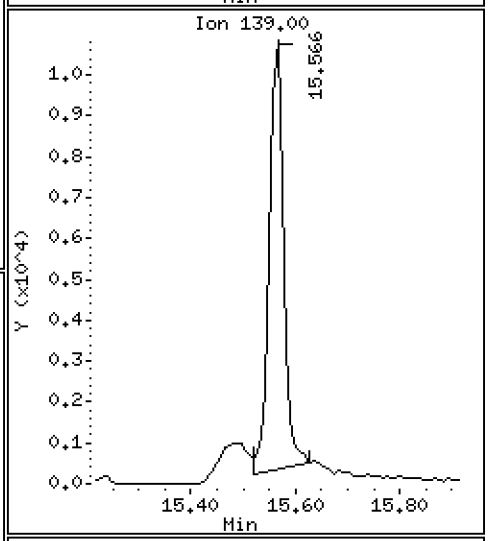


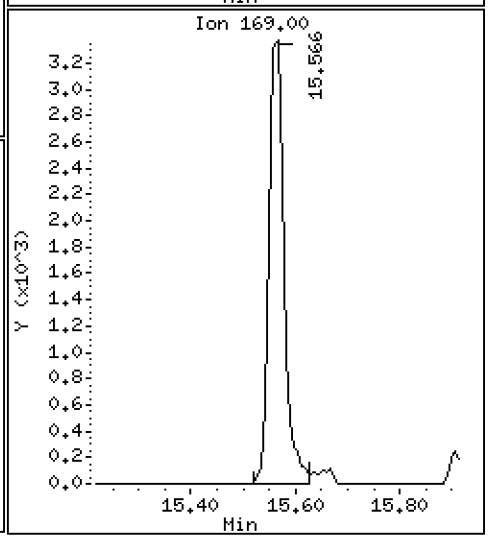












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

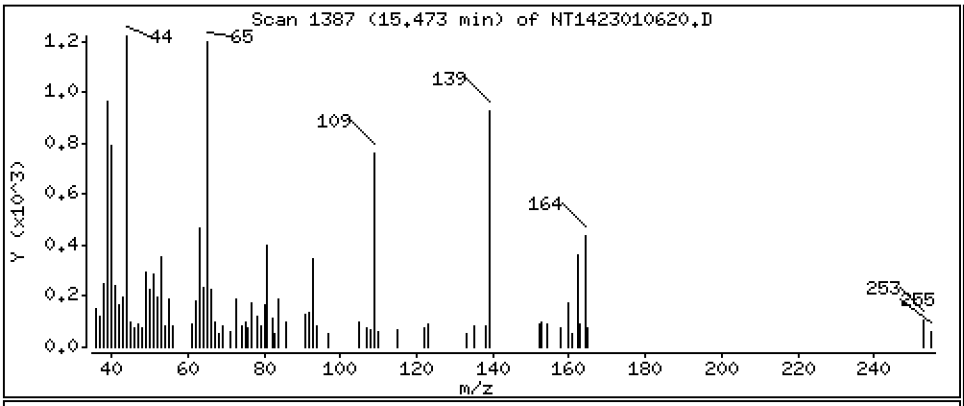
Operator: VTS

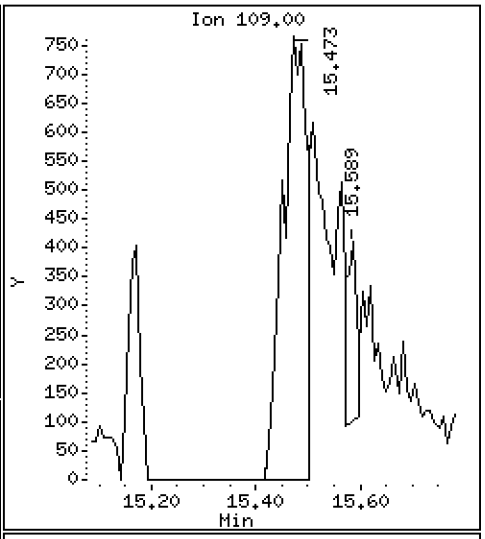
Column phase: ZB-5msi

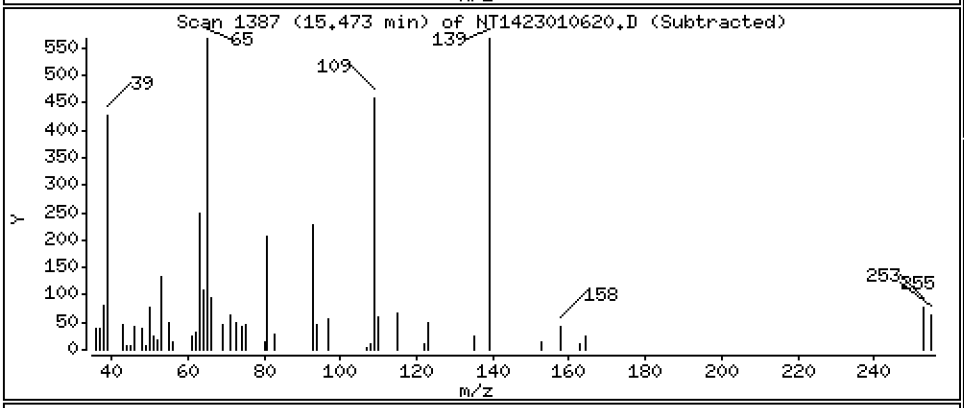
Column diameter: 0.25

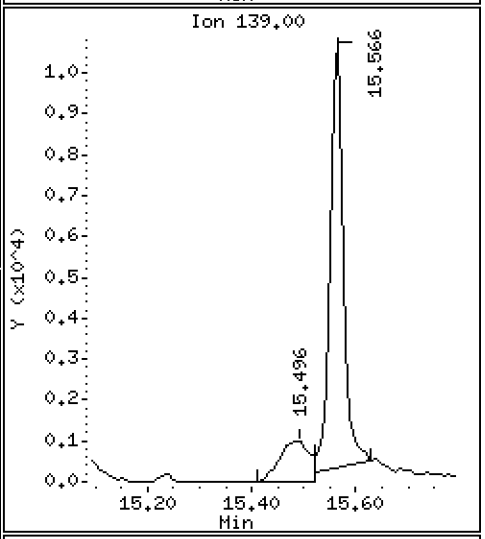
47 4-Nitrophenol

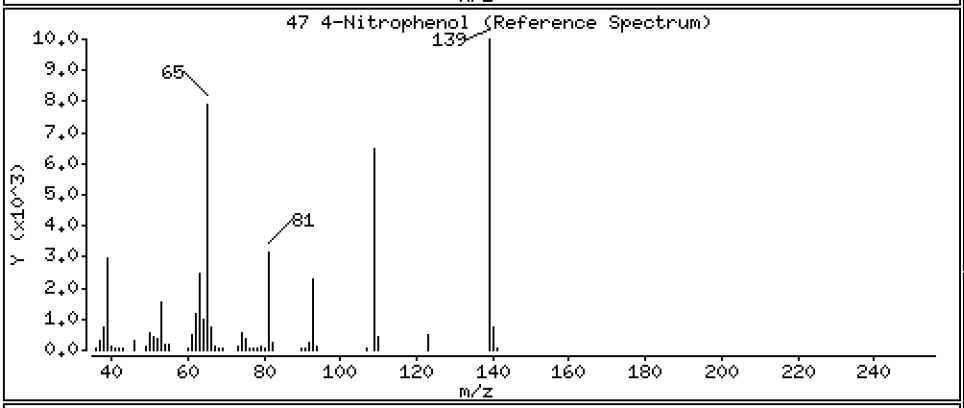
Concentration: 0.2594 ug/mL

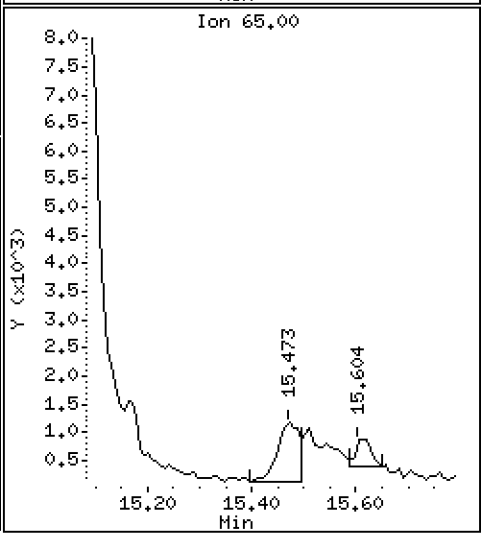


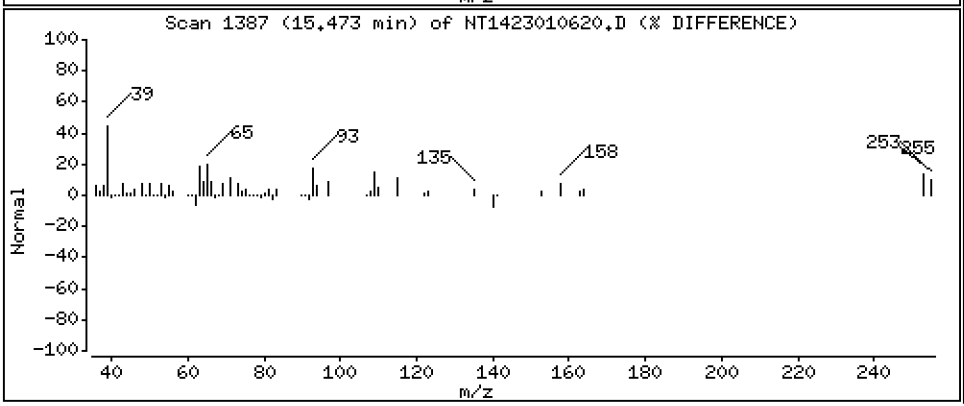












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

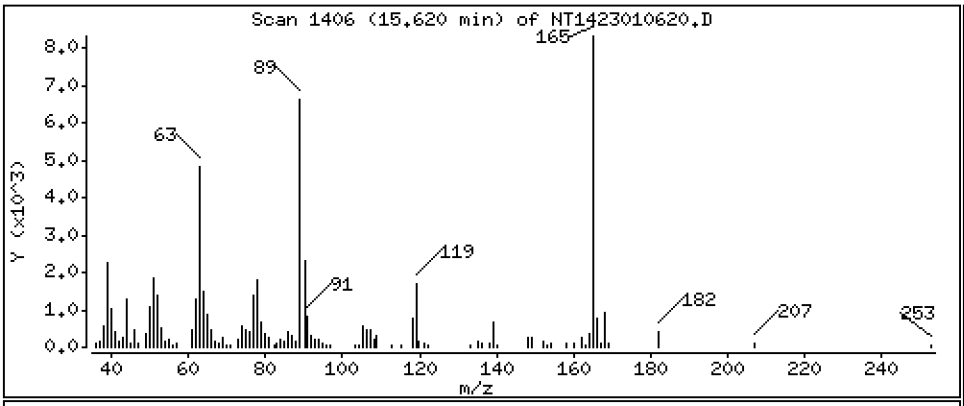
Operator: VTS

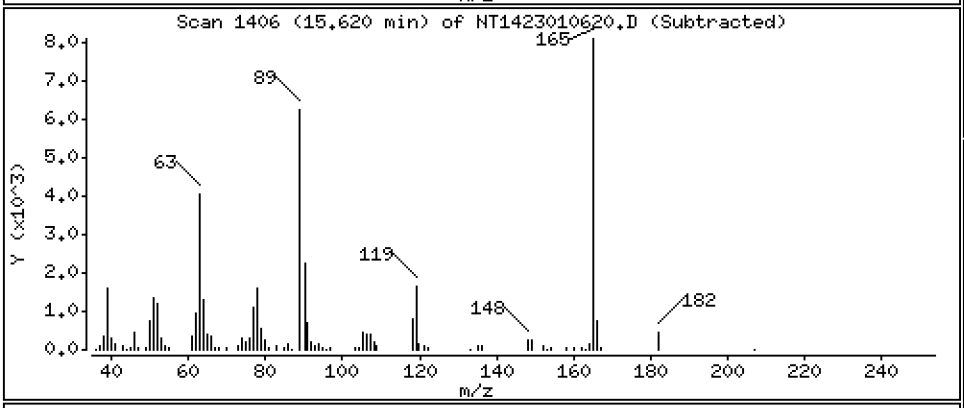
Column phase: ZB-5msi

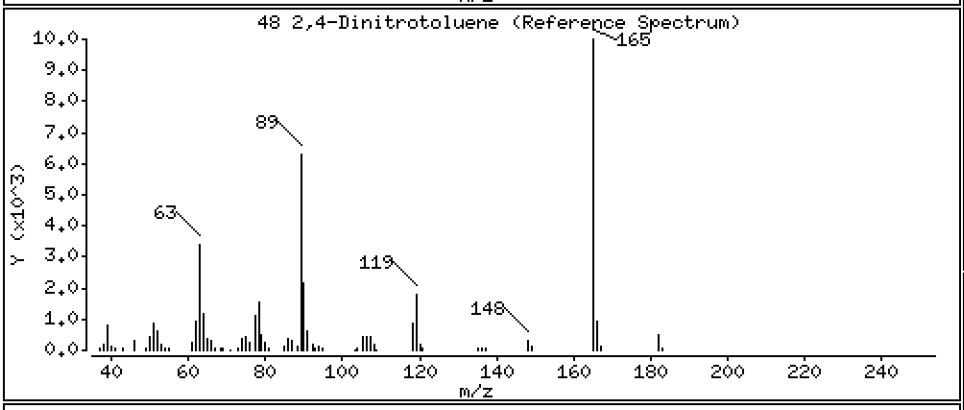
Column diameter: 0.25

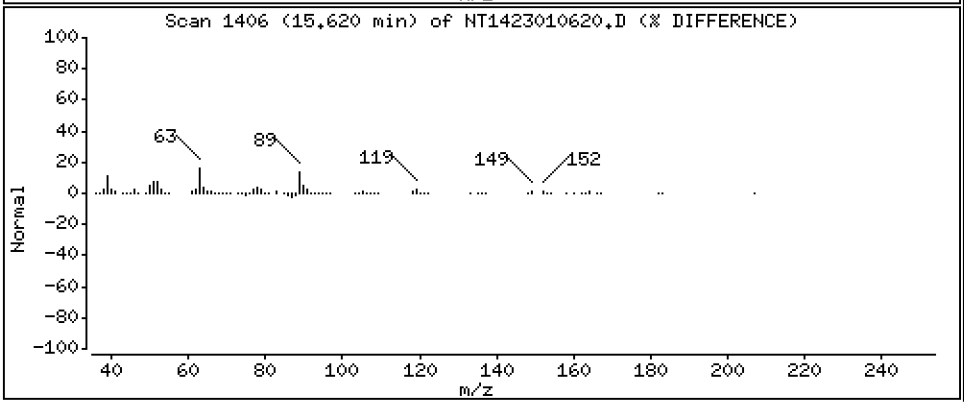
48 2,4-Dinitrotoluene

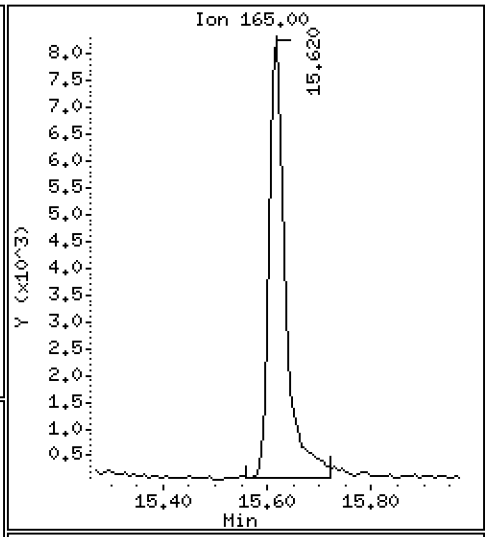
Concentration: 0.7518 ug/mL

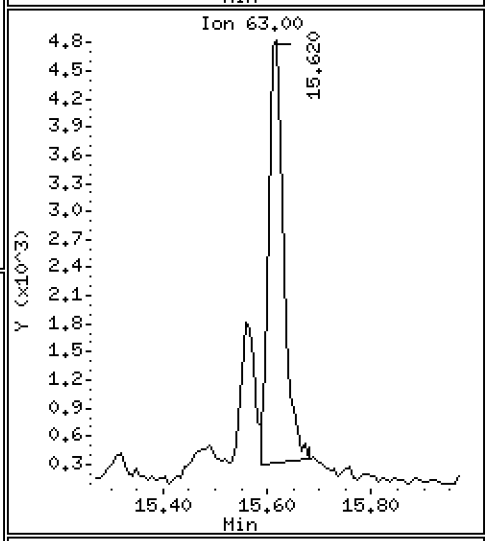


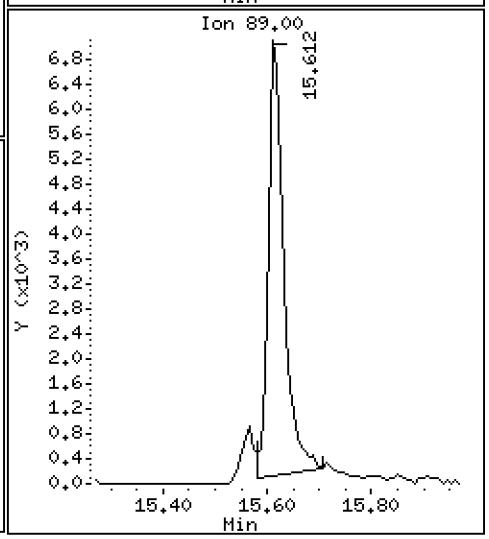












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

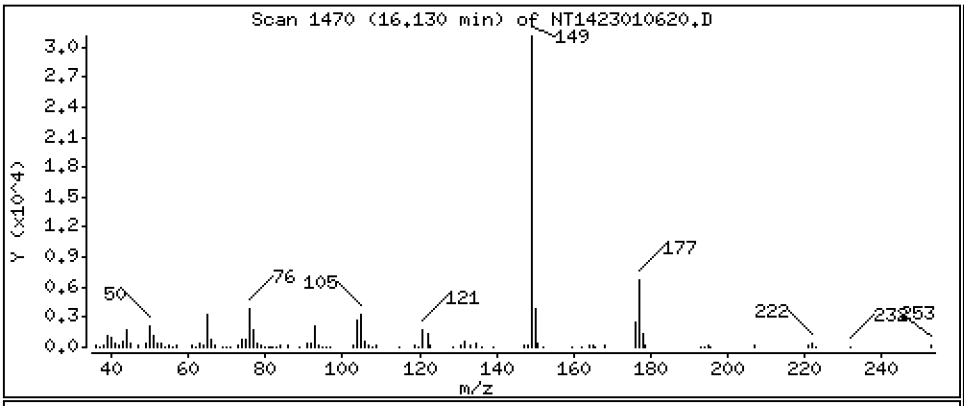
Operator: VTS

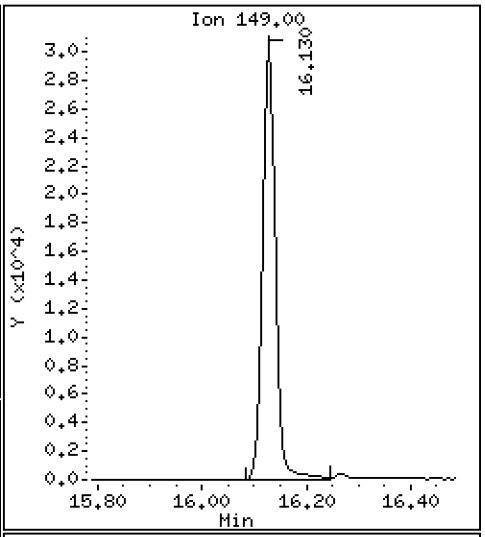
Column phase: ZB-5msi

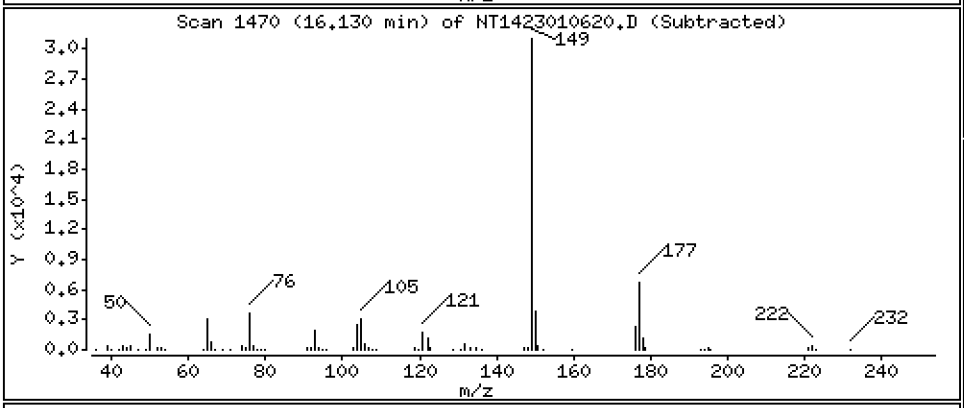
Column diameter: 0.25

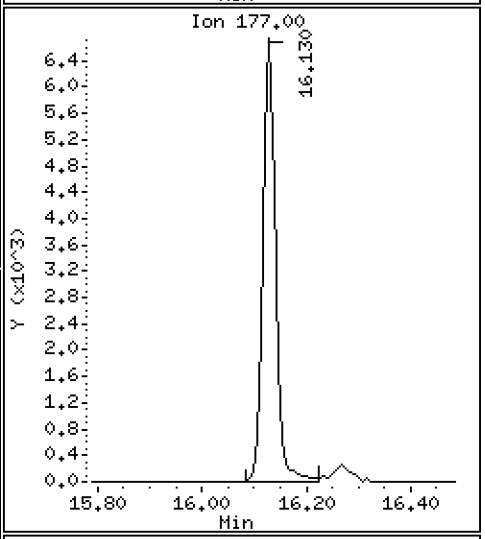
50 Diethylphthalate

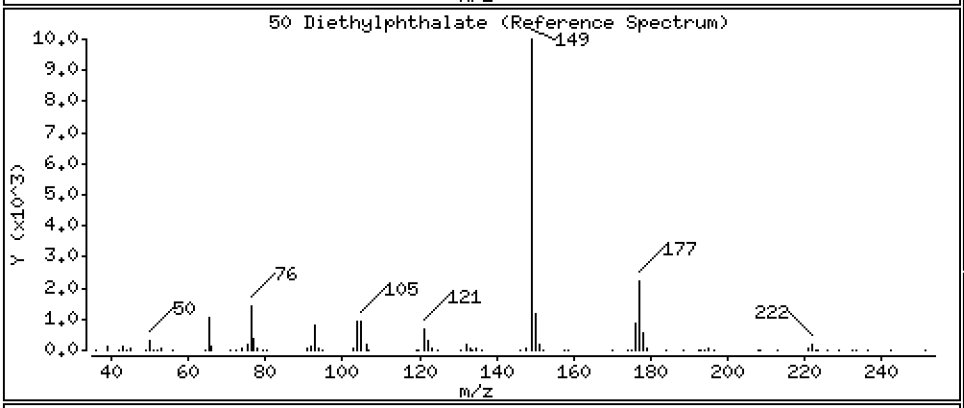
Concentration: 0.5301 ug/mL

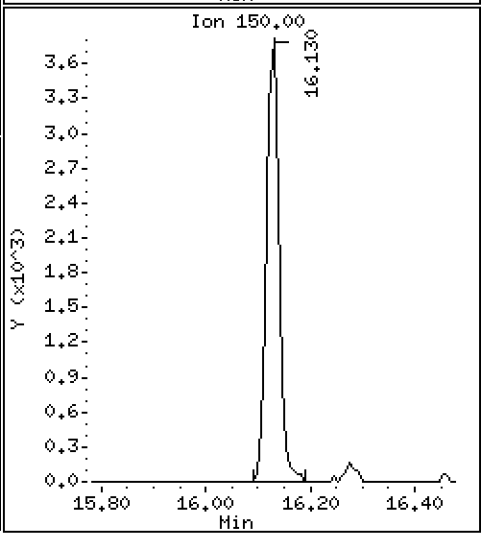


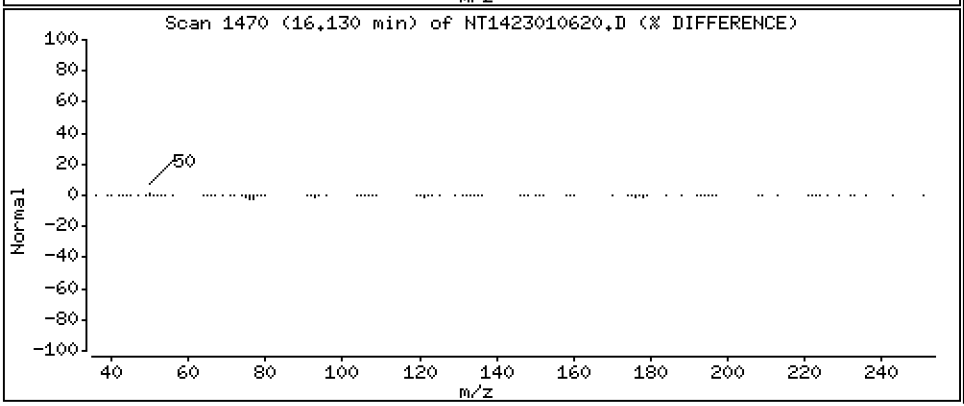












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

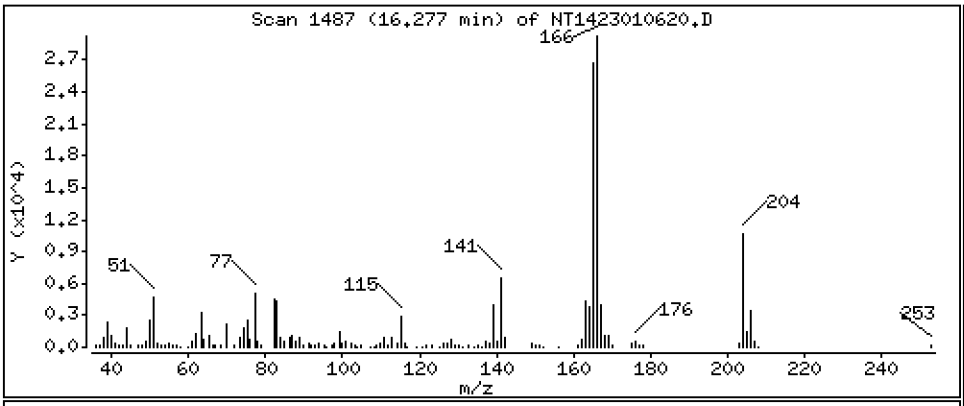
Operator: VTS

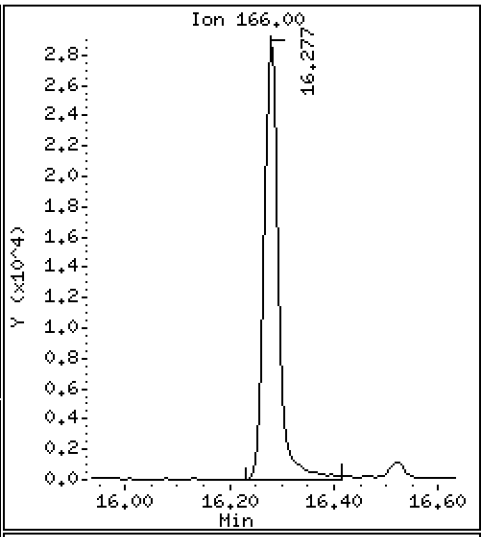
Column phase: ZB-5msi

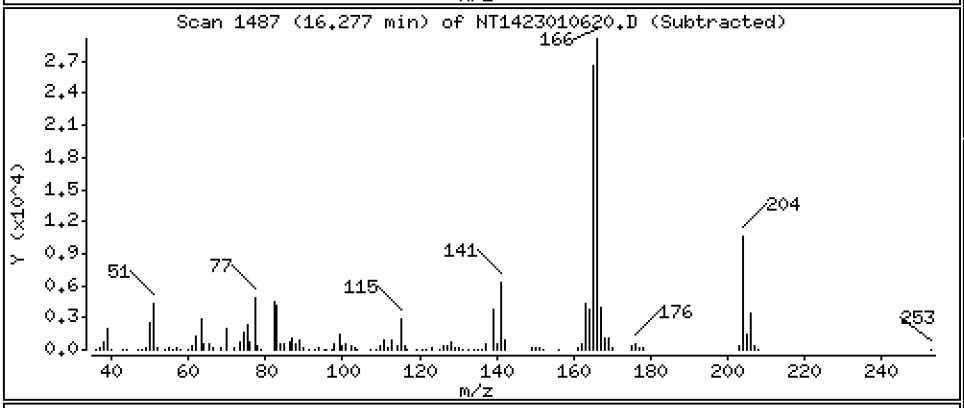
Column diameter: 0.25

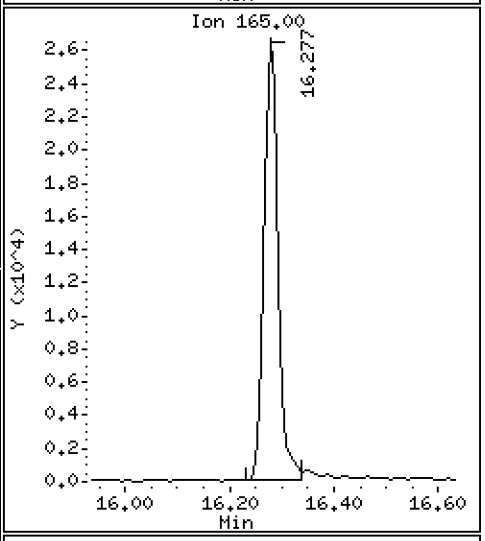
49 Fluorene

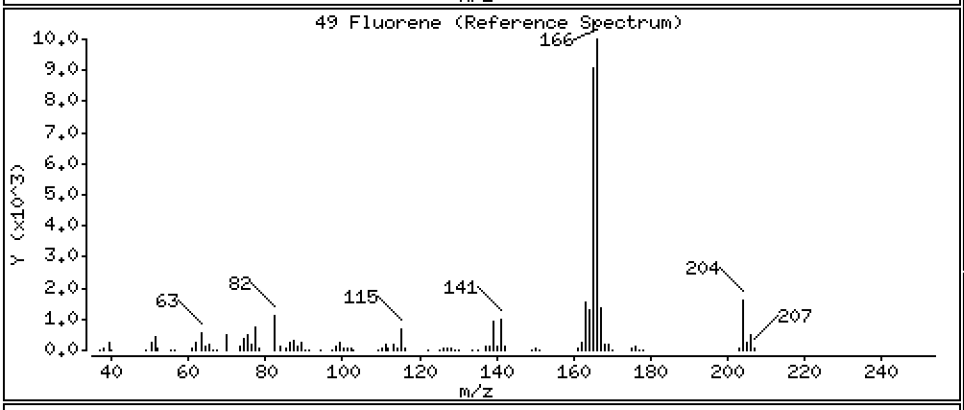
Concentration: 0.4672 ug/mL

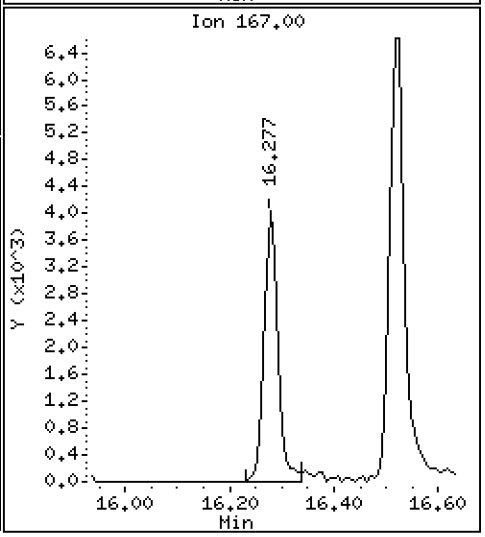


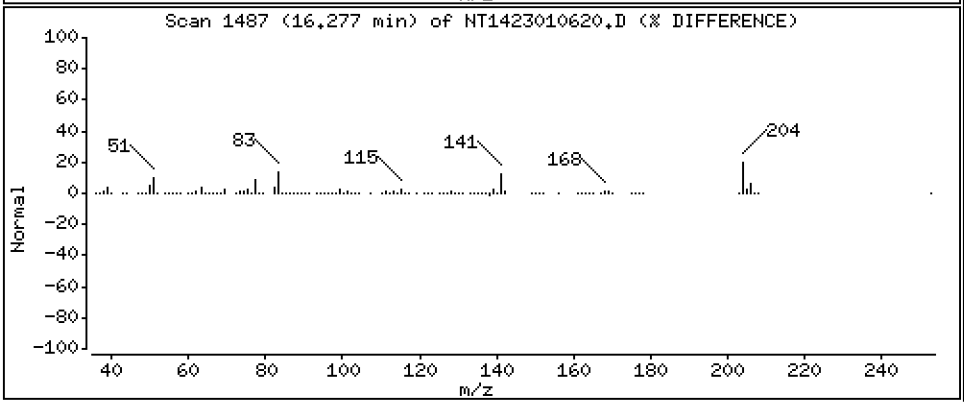












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

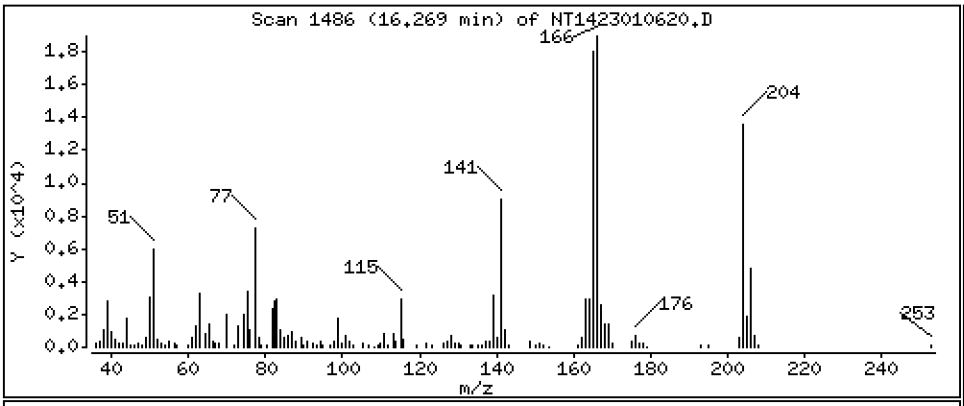
Operator: VTS

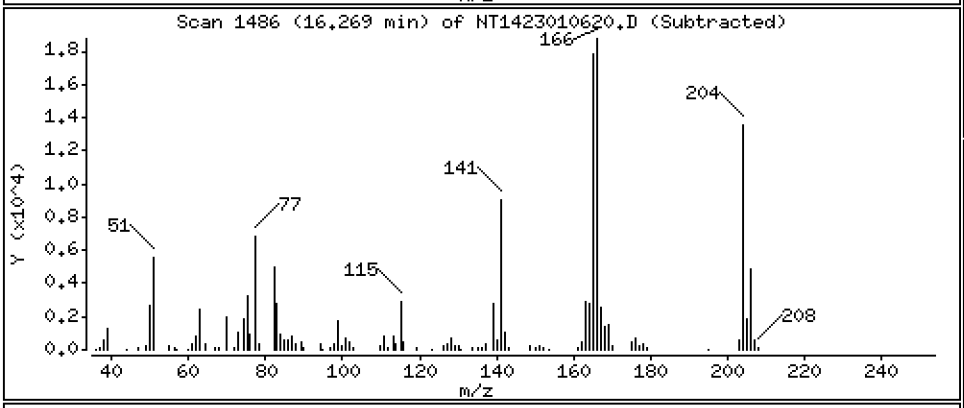
Column phase: ZB-5msi

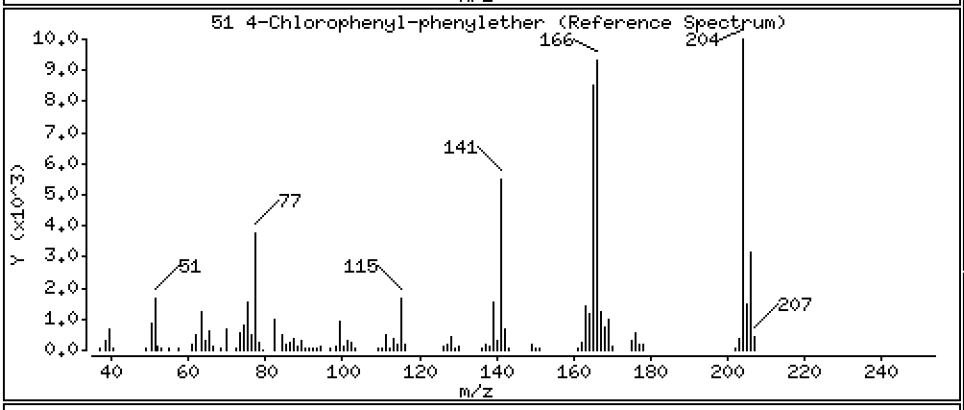
Column diameter: 0.25

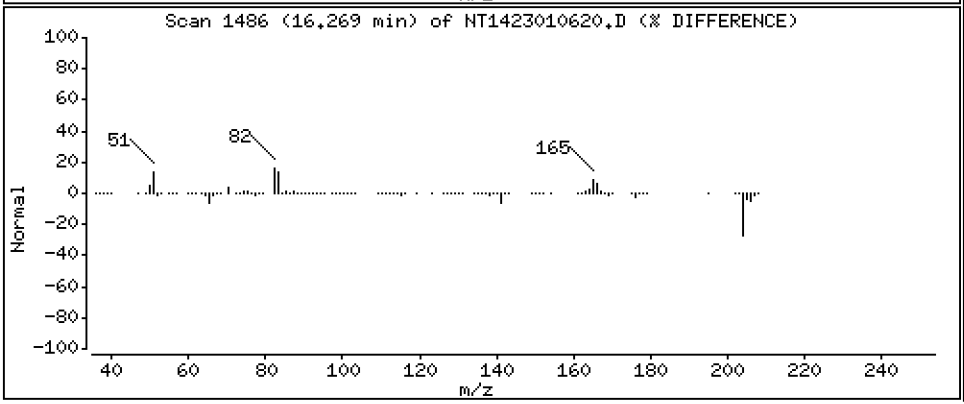
51 4-Chlorophenyl-phenylether

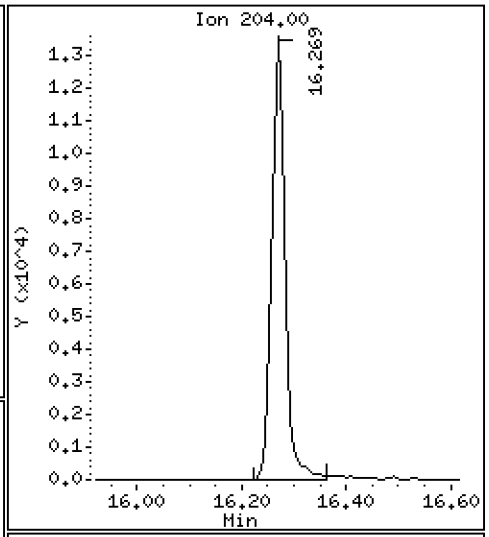
Concentration: 0.4205 ug/mL

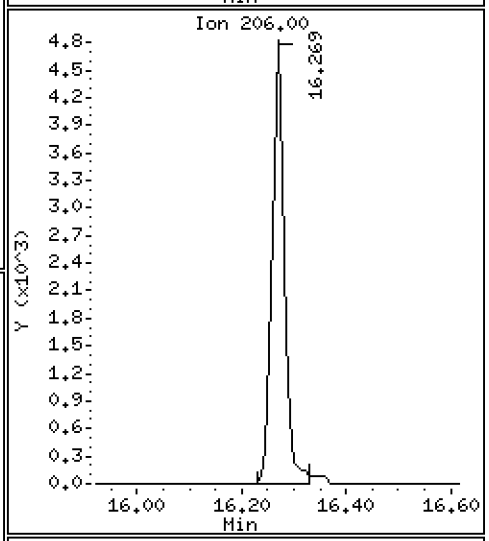


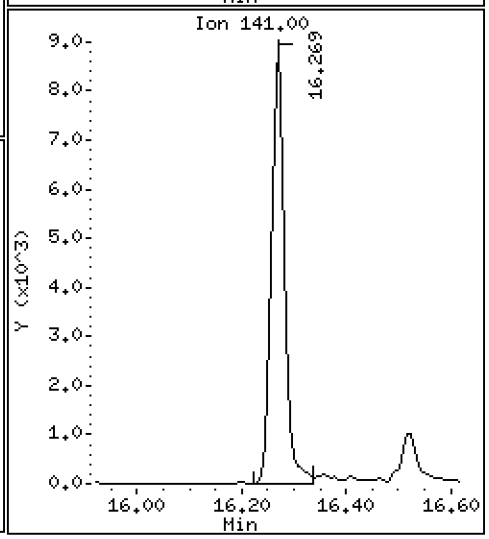












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

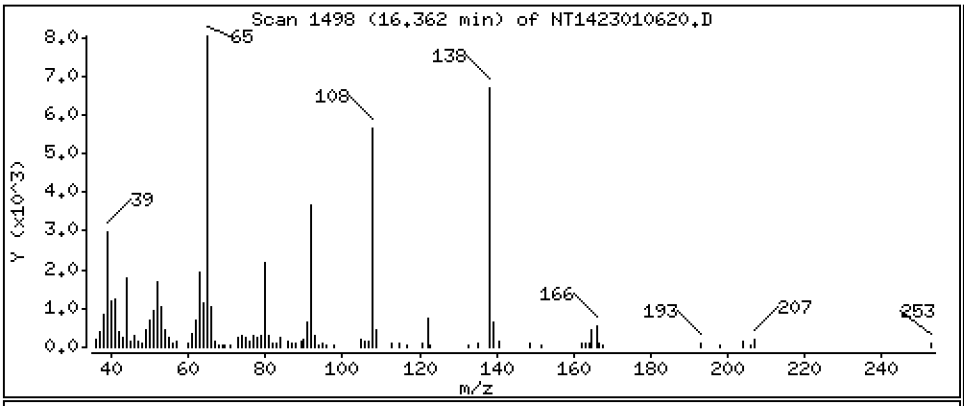
Operator: VTS

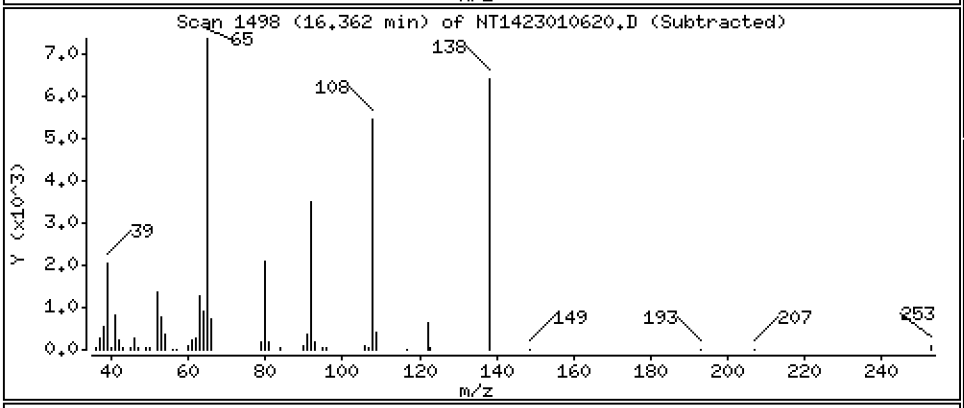
Column phase: ZB-5msi

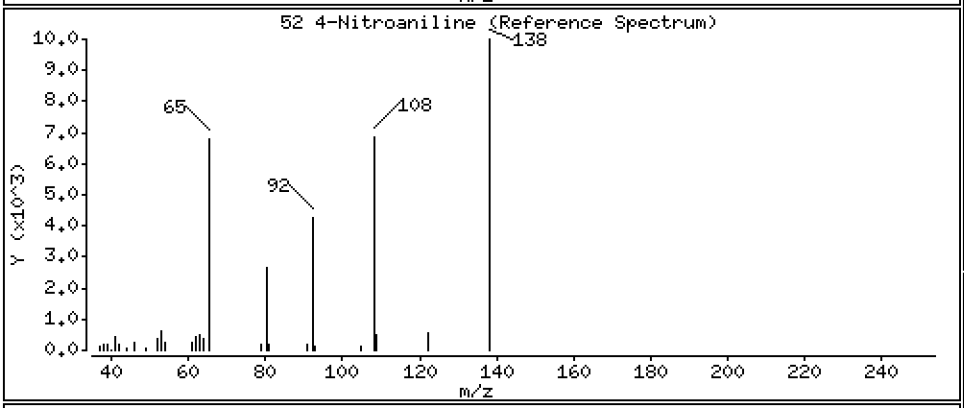
Column diameter: 0.25

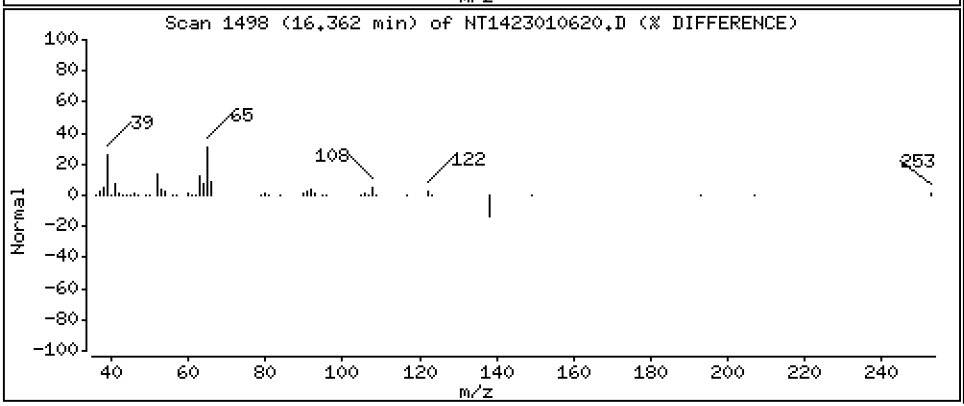
52 4-Nitroaniline

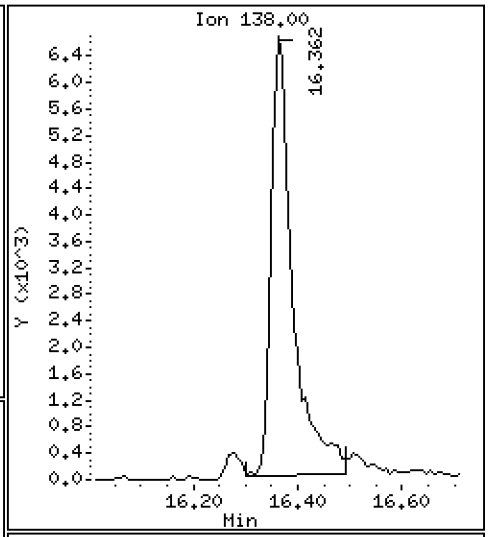
Concentration: 0.7544 ug/mL

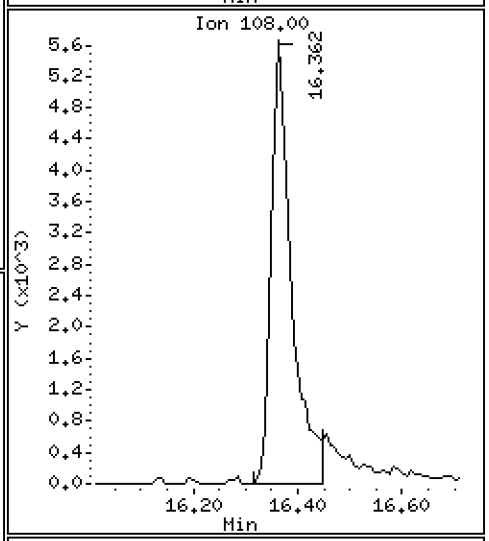


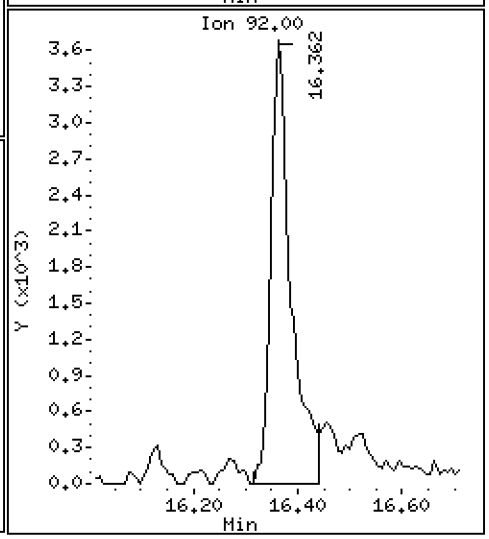












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

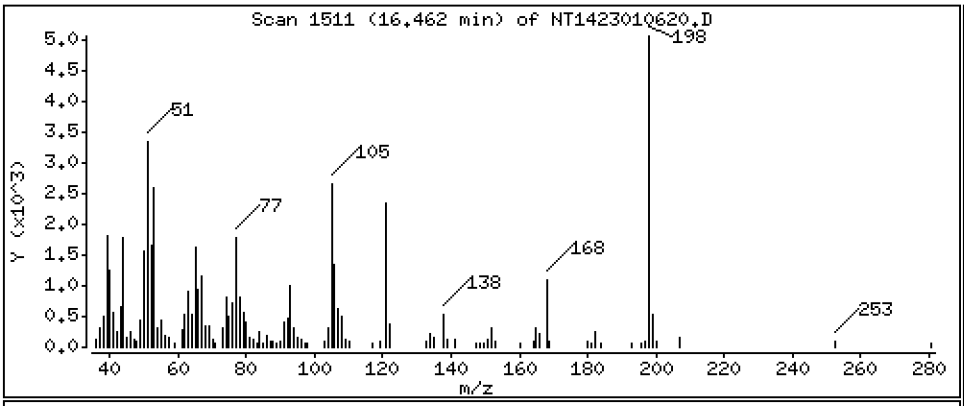
Operator: VTS

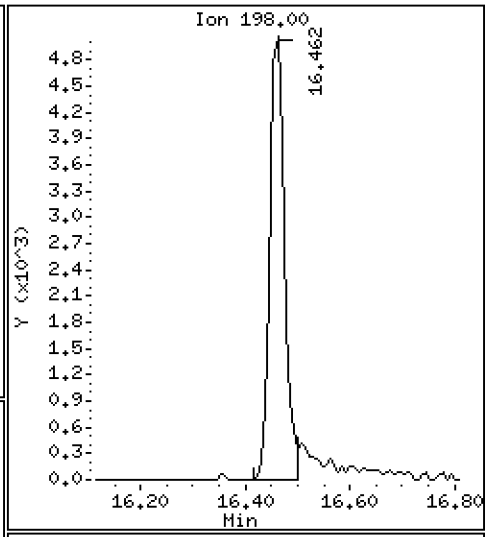
Column phase: ZB-5msi

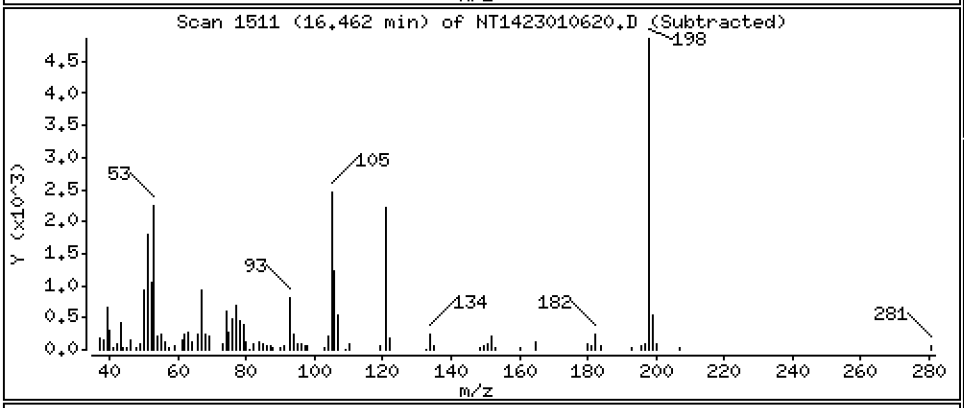
Column diameter: 0.25

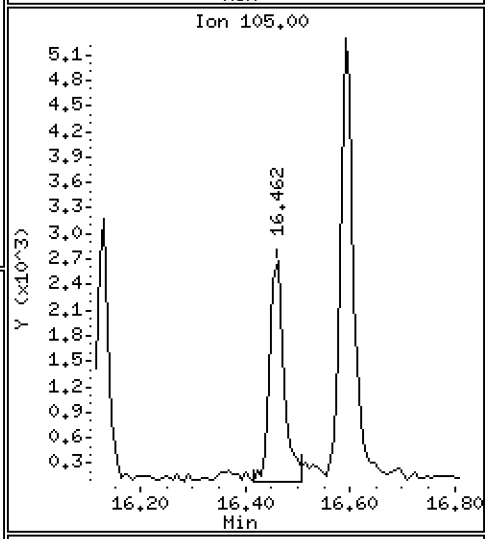
53 4,6-Dinitro-2-methylphenol

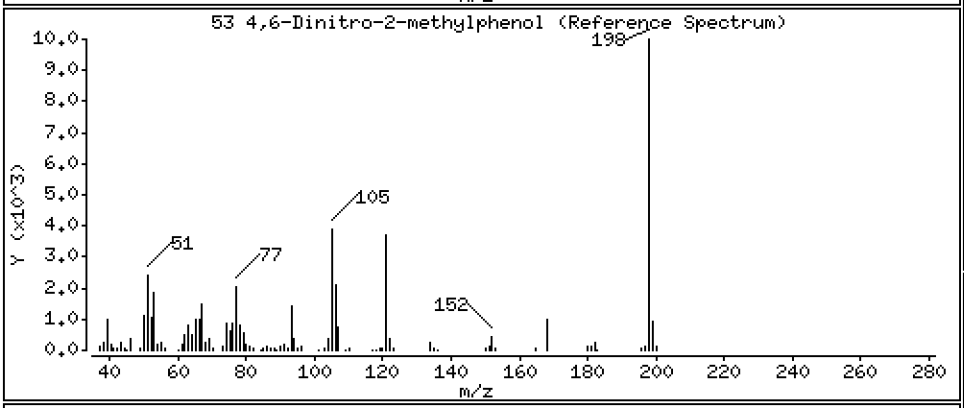
Concentration: 0.5046 ug/mL

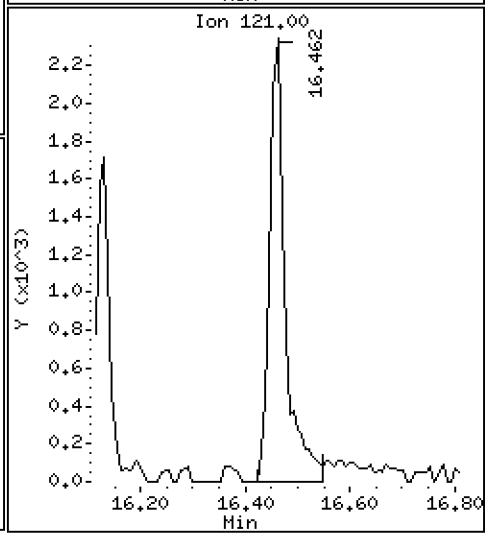


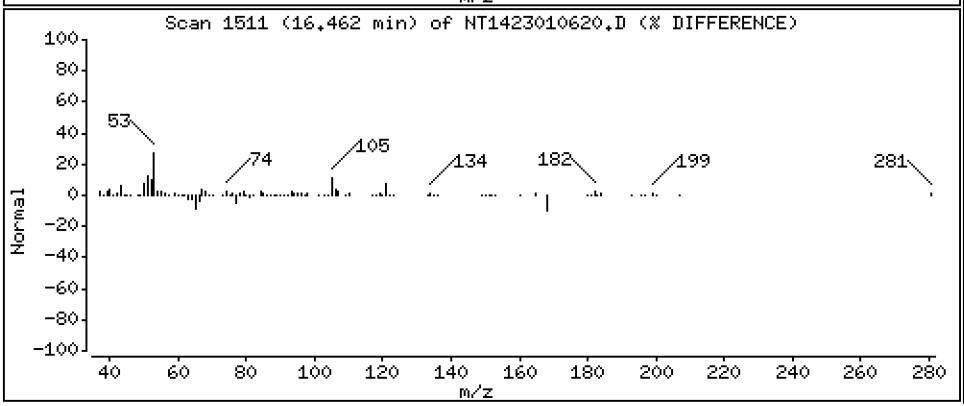












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

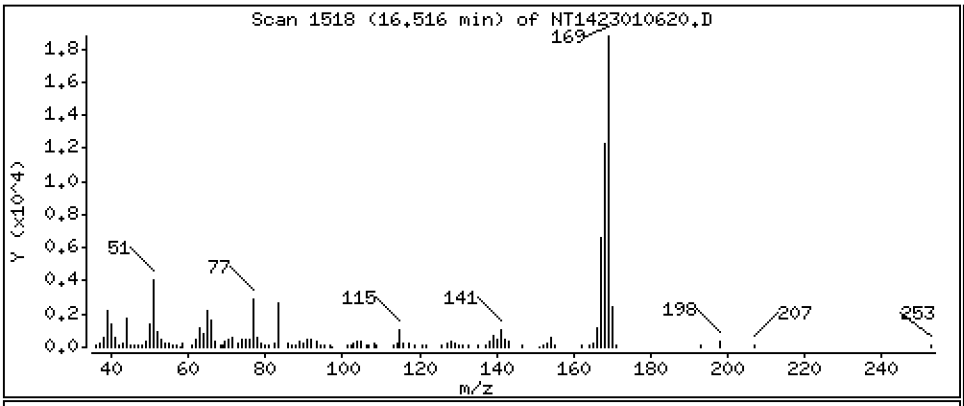
Operator: VTS

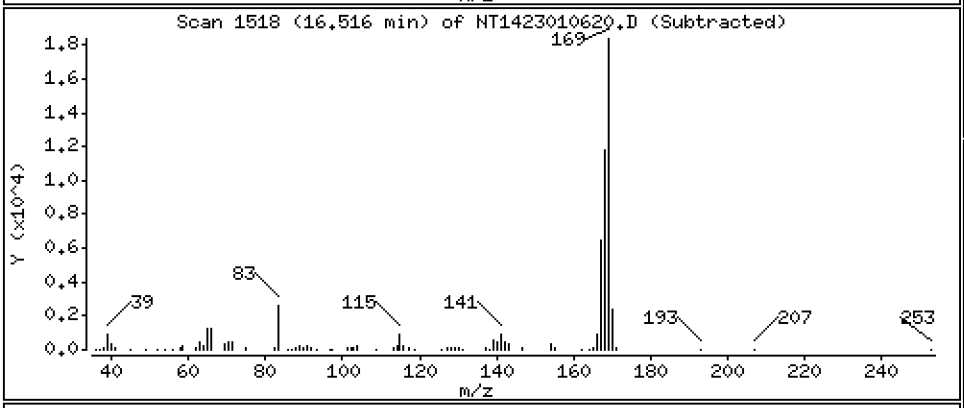
Column phase: ZB-5msi

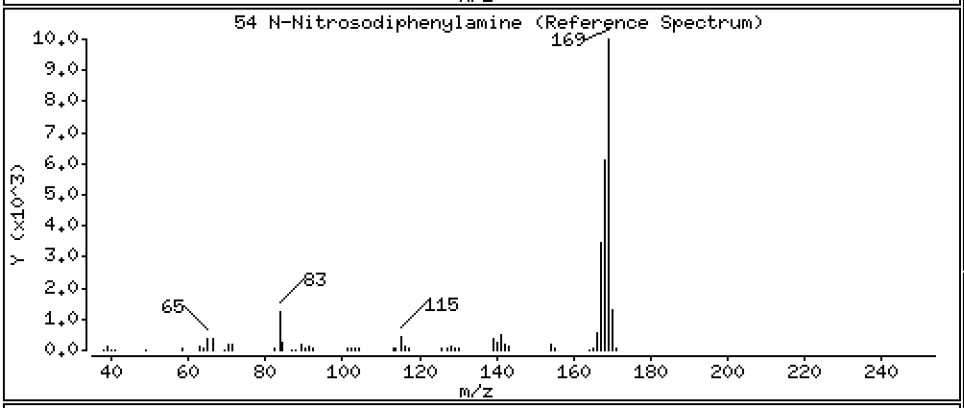
Column diameter: 0.25

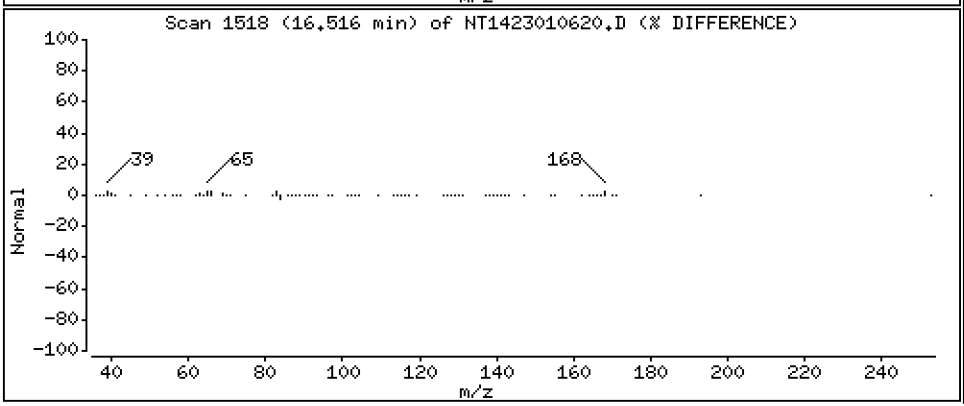
54 N-Nitrosodiphenylamine

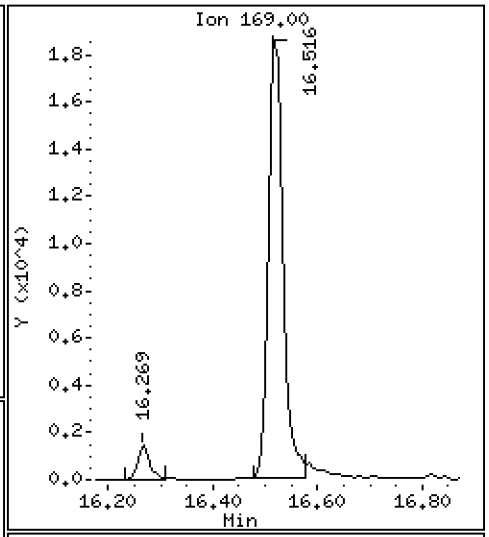
Concentration: 0.4445 ug/mL

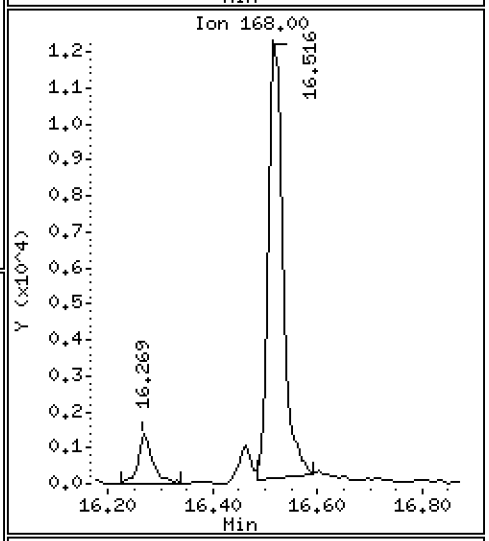


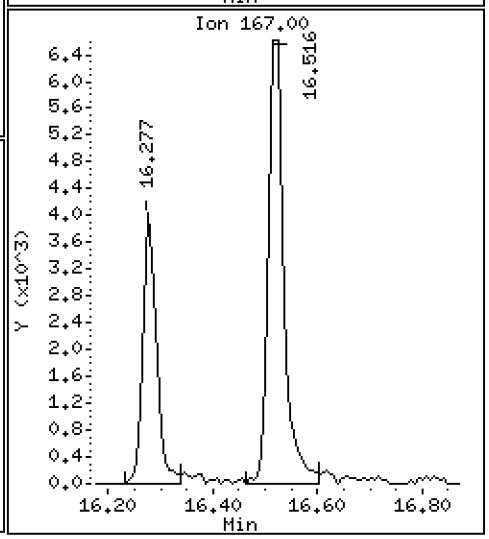












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

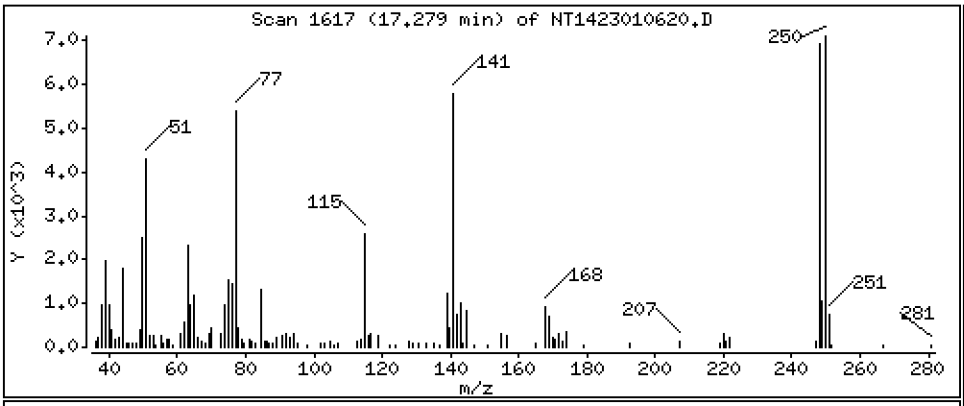
Operator: VTS

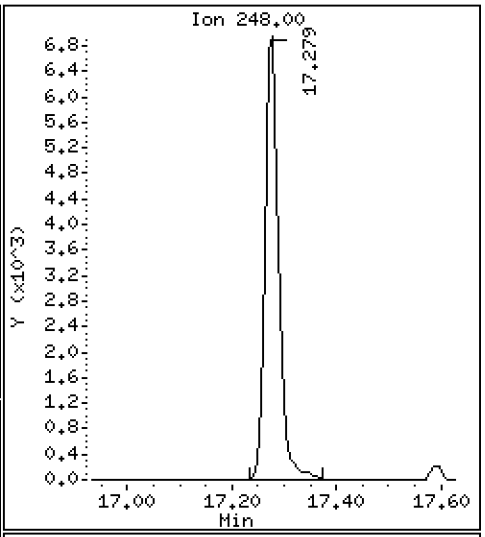
Column phase: ZB-5msi

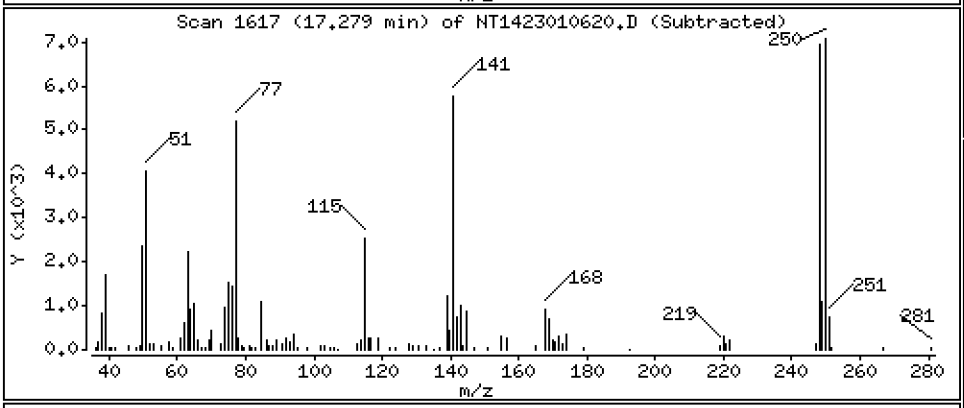
Column diameter: 0.25

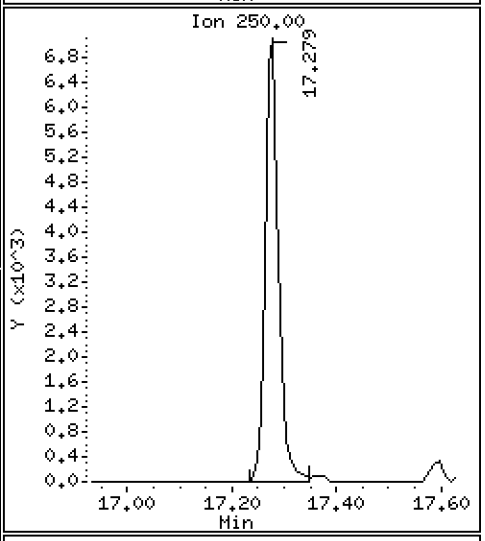
56 4-Bromophenyl-phenylether

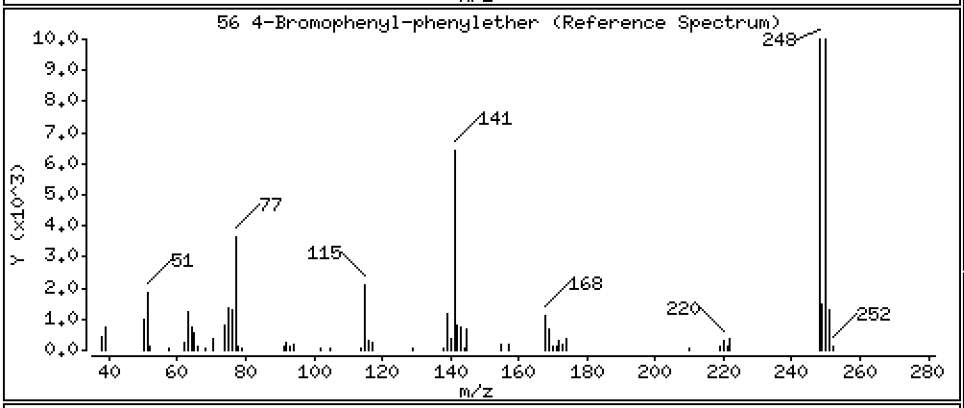
Concentration: 0.4322 ug/mL

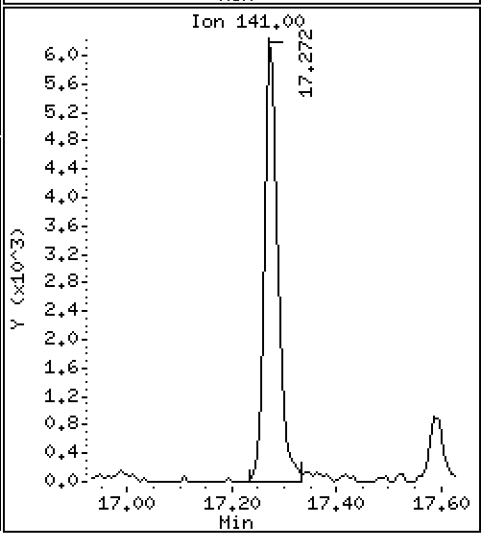


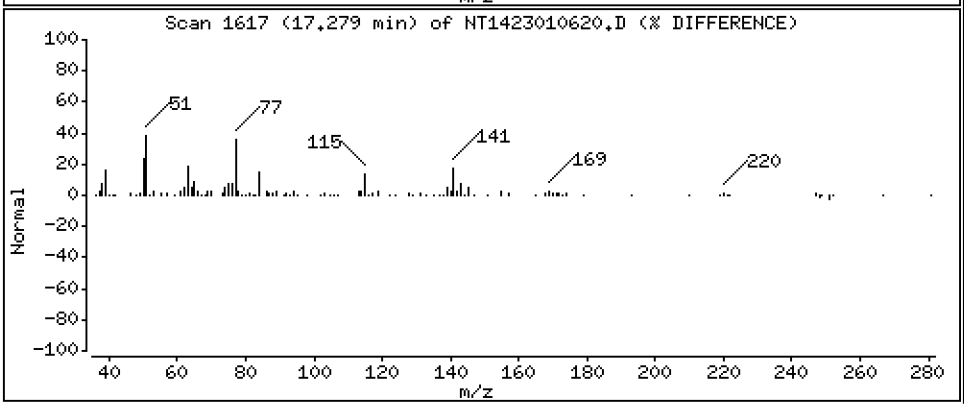












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

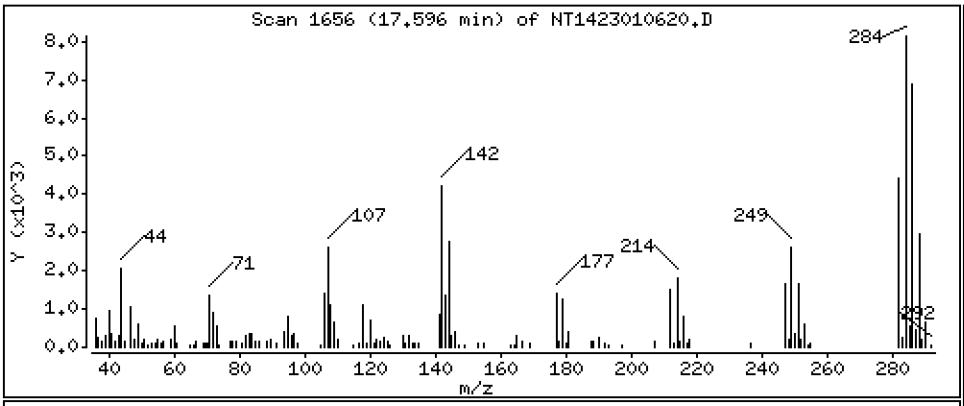
Operator: VTS

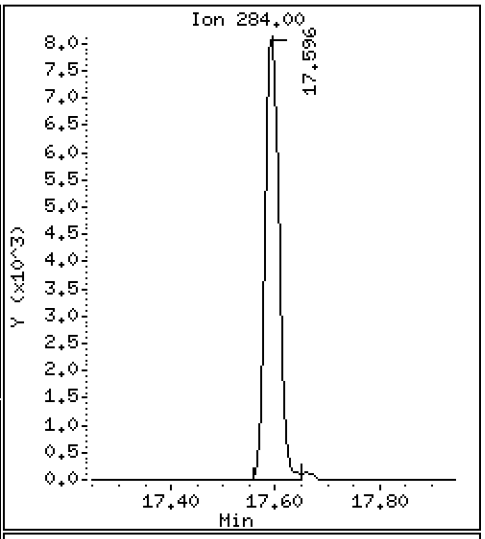
Column phase: ZB-5msi

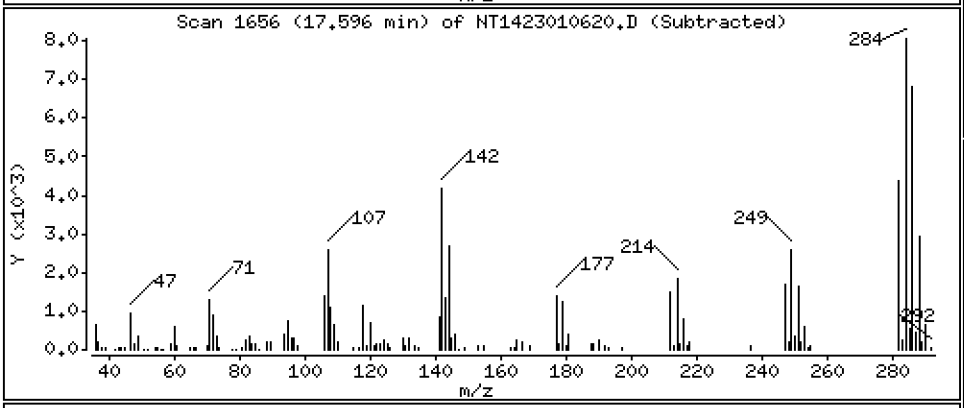
Column diameter: 0.25

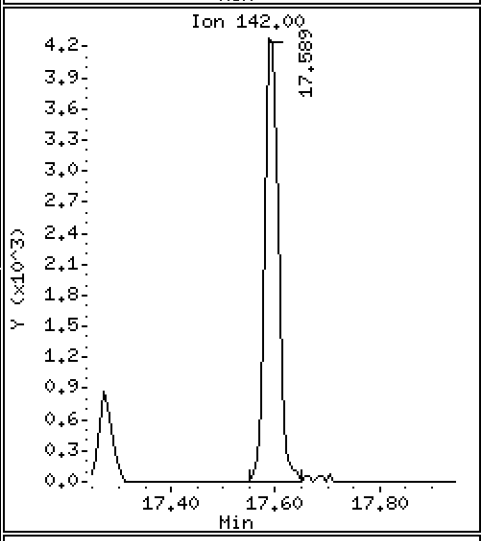
57 Hexachlorobenzene

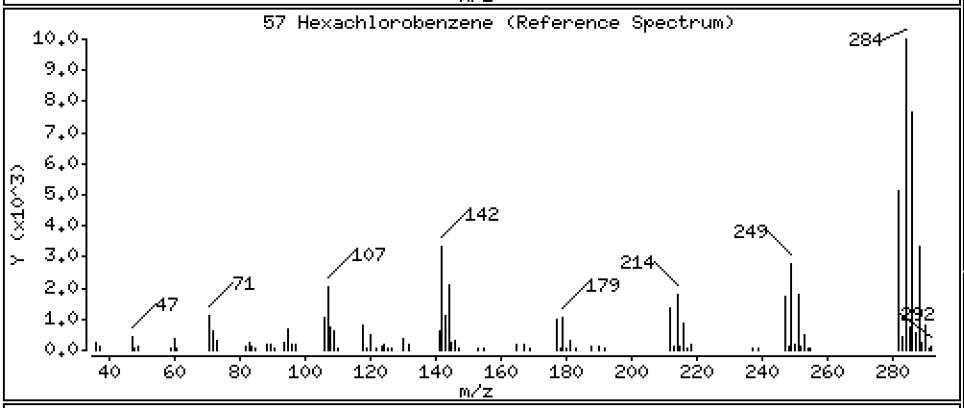
Concentration: 0.4543 ug/mL

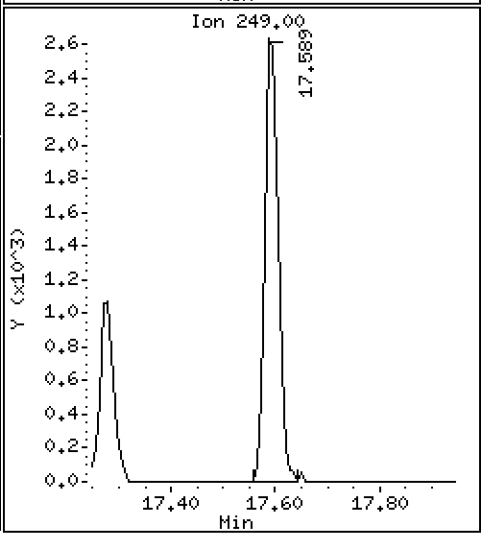


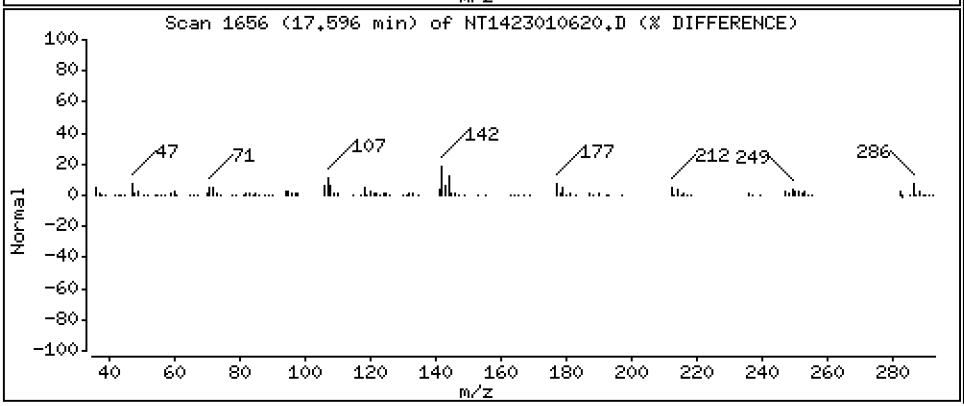












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

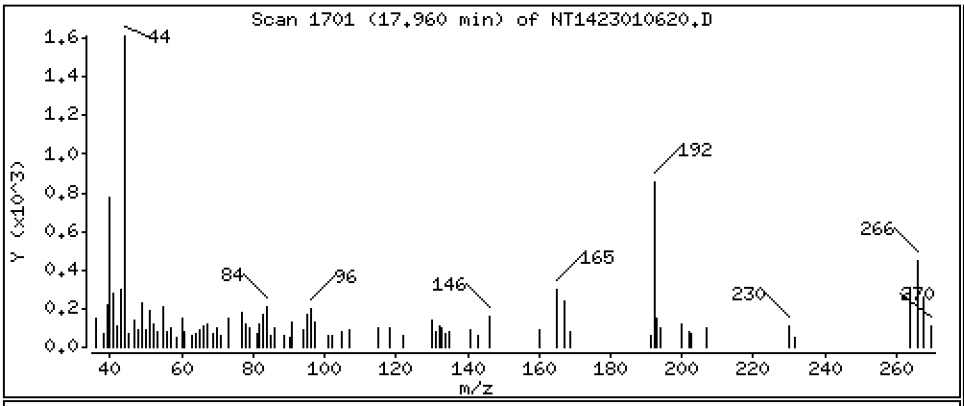
Operator: VTS

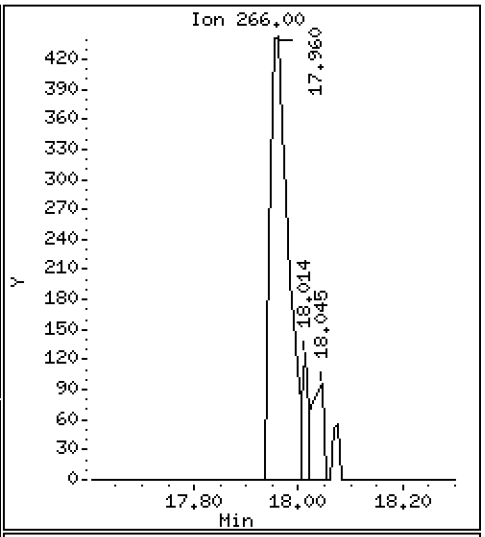
Column phase: ZB-5msi

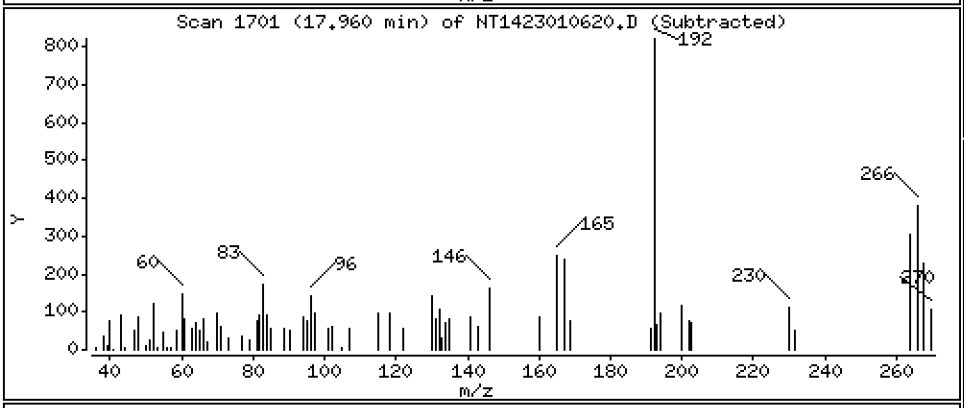
Column diameter: 0.25

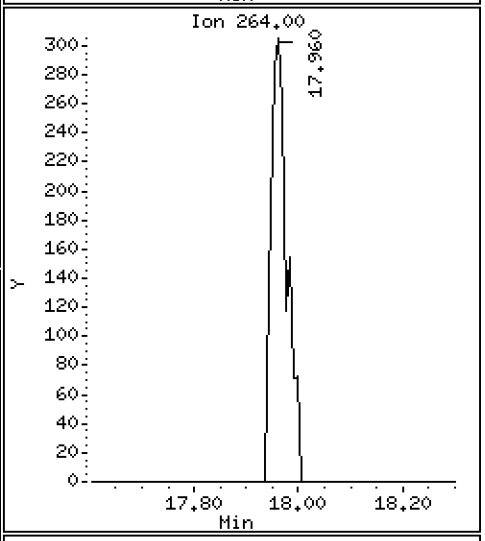
58 Pentachlorophenol

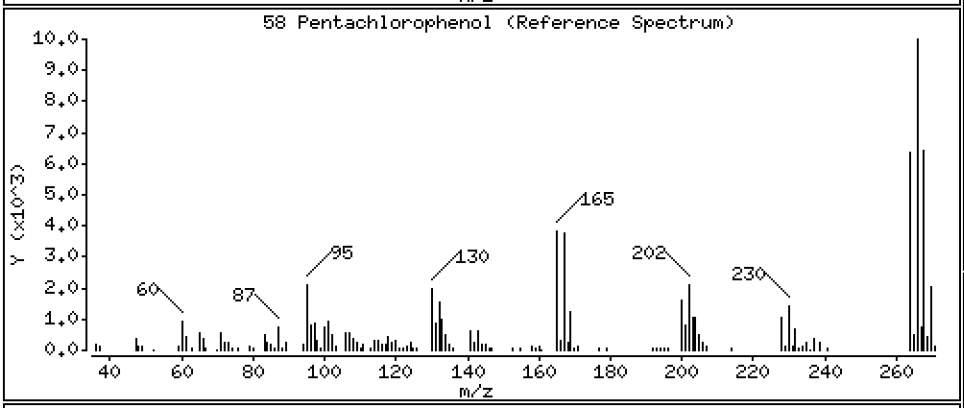
Concentration: 0.07732 ug/mL

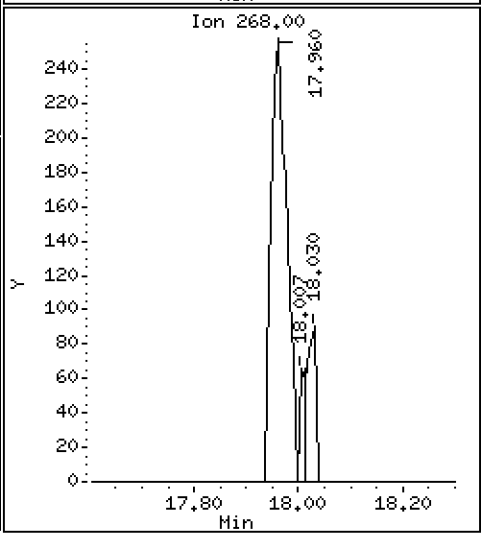


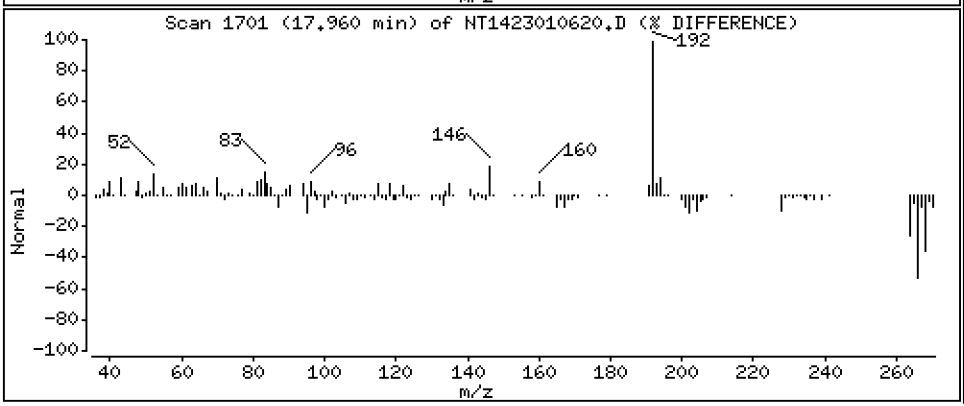












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

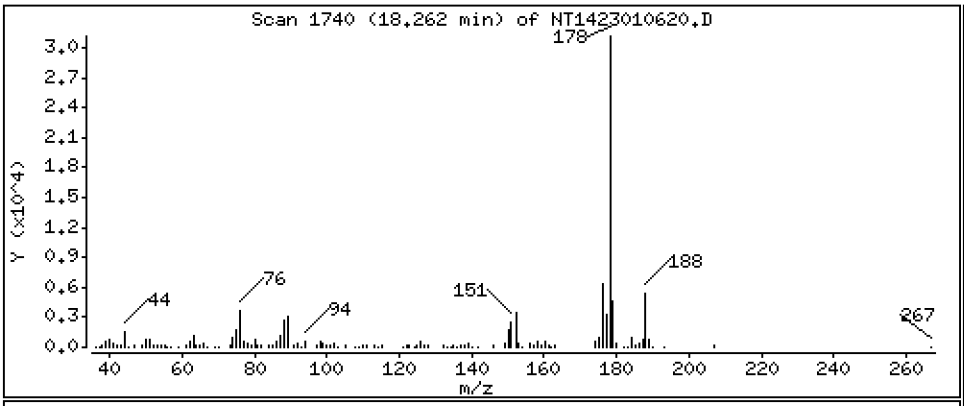
Operator: VTS

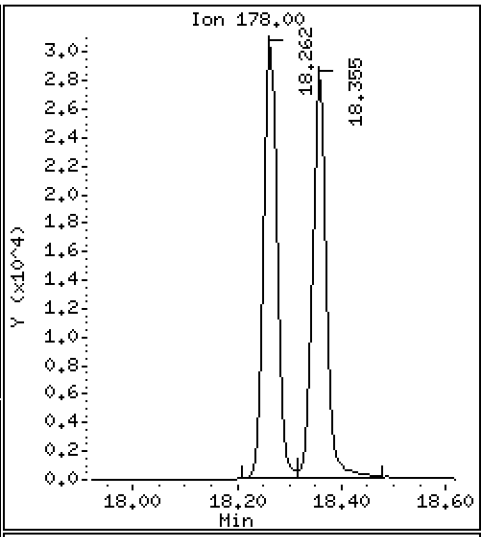
Column phase: ZB-5msi

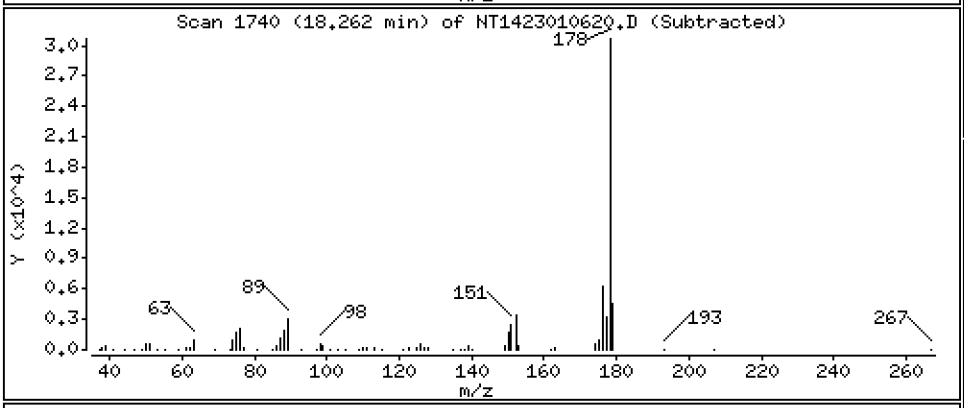
Column diameter: 0.25

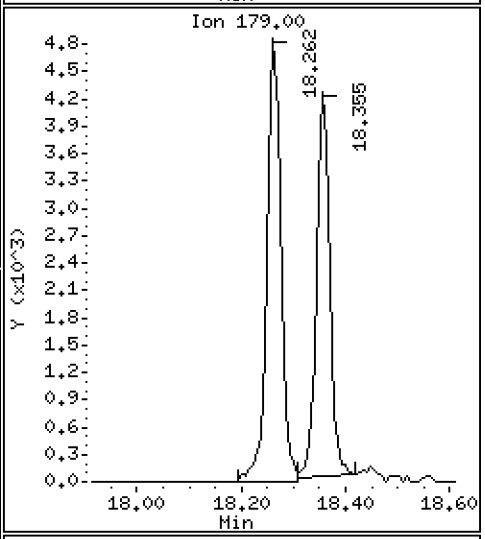
60 Phenanthrene

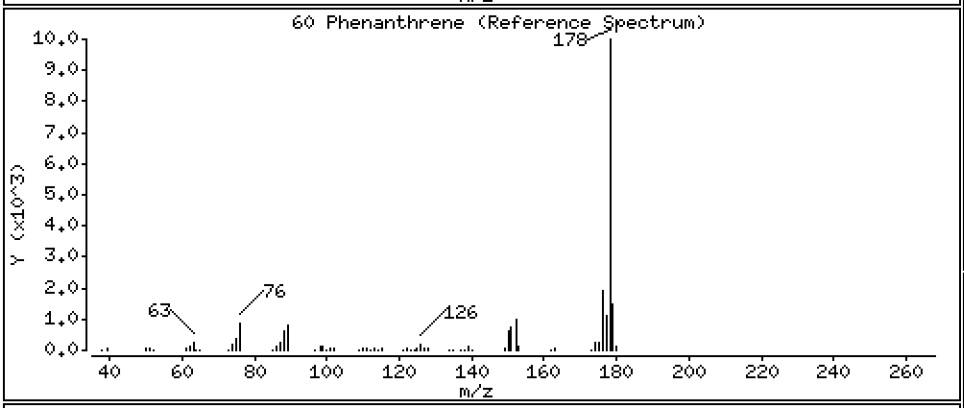
Concentration: 0.4518 ug/mL

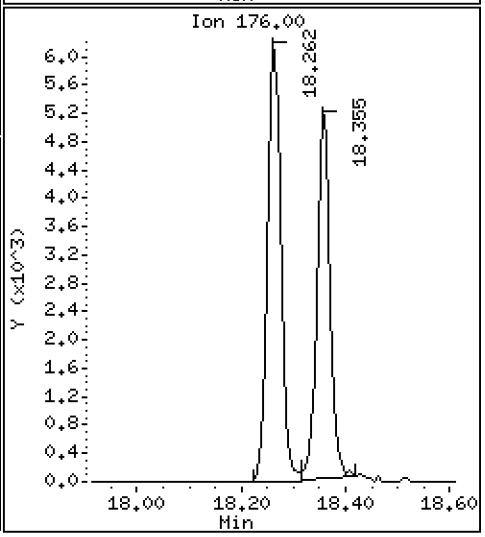


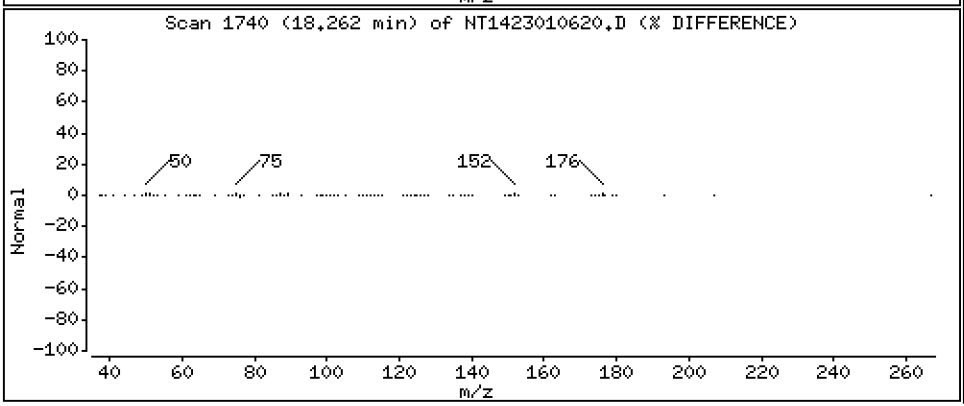












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

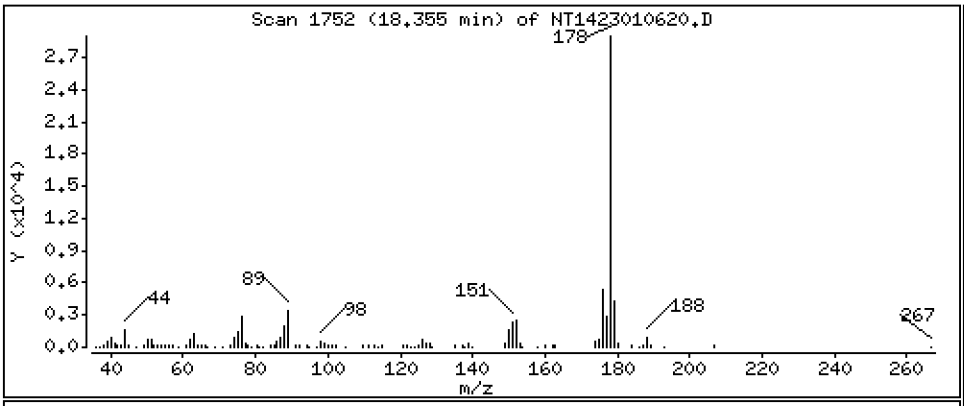
Operator: VTS

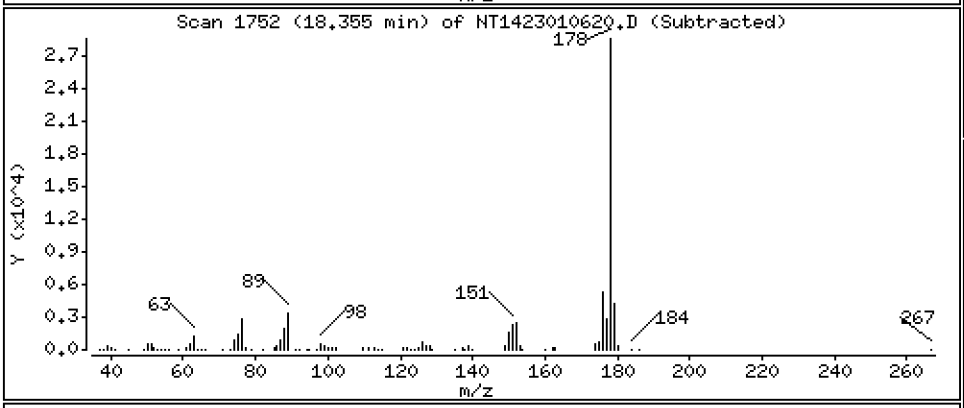
Column phase: ZB-5msi

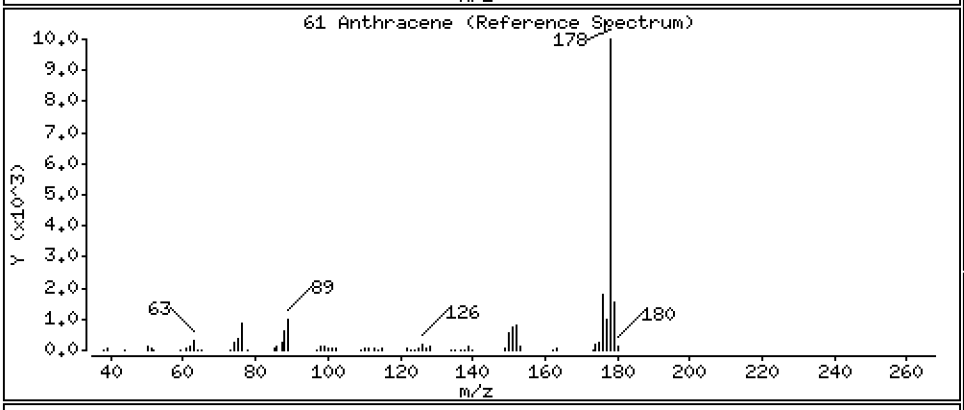
Column diameter: 0.25

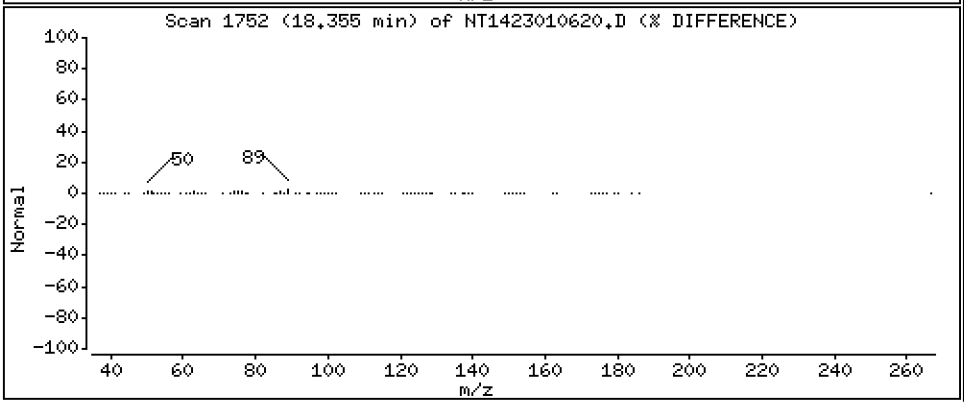
61 Anthracene

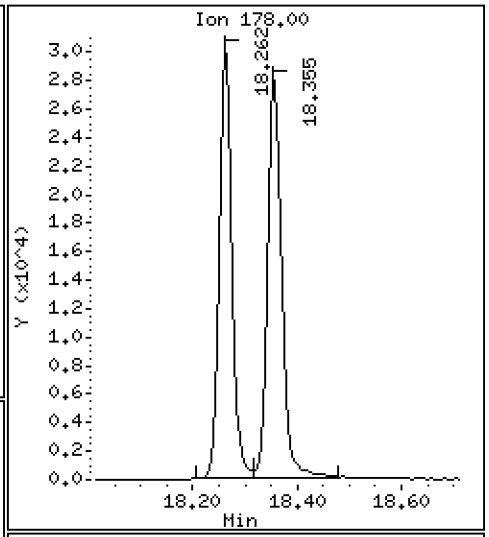
Concentration: 0.4608 ug/mL

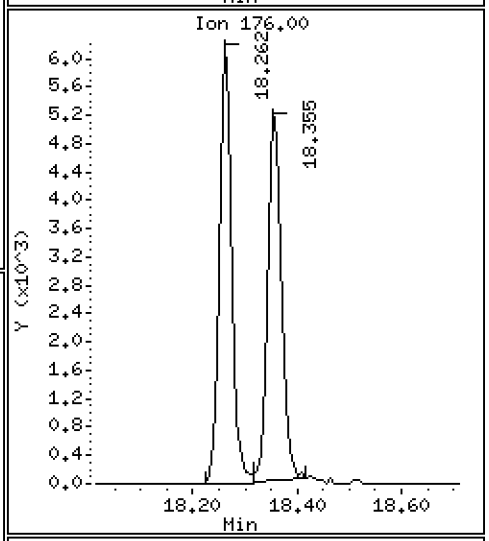


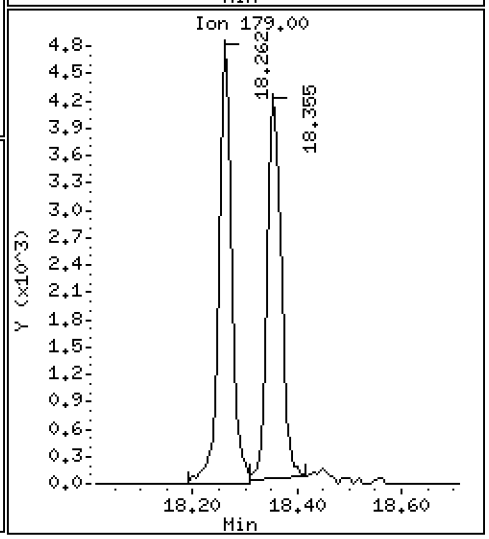












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

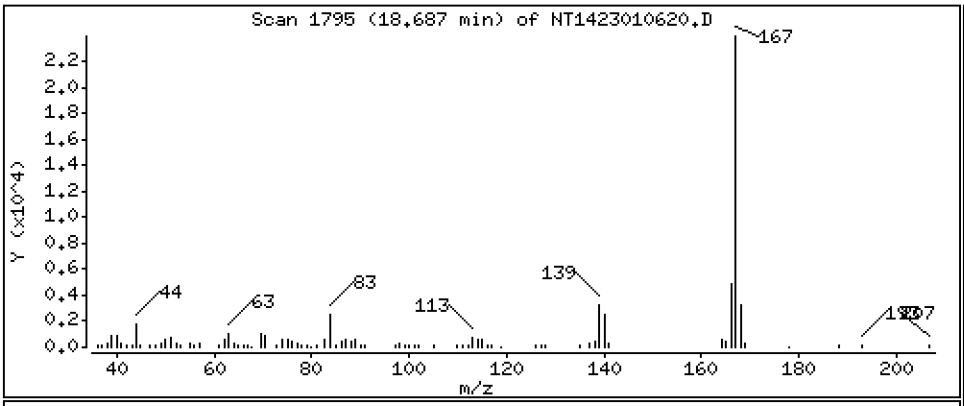
Operator: VTS

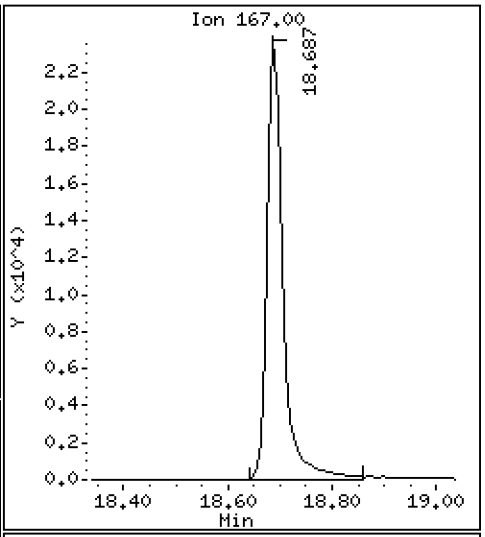
Column phase: ZB-5msi

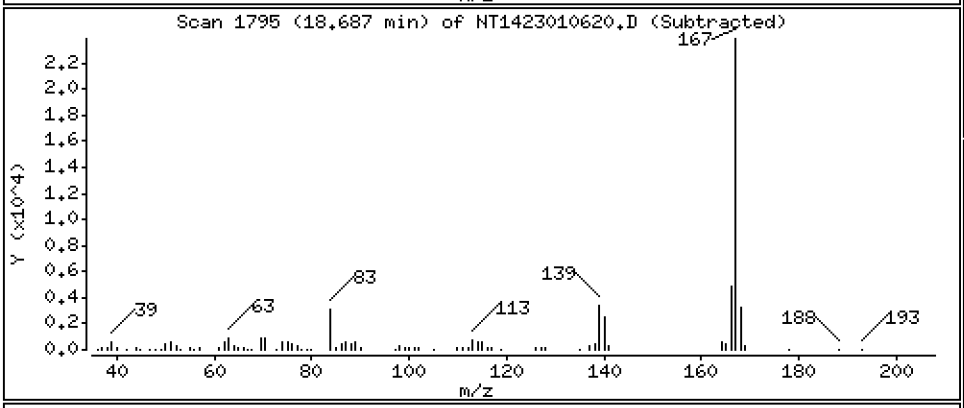
Column diameter: 0.25

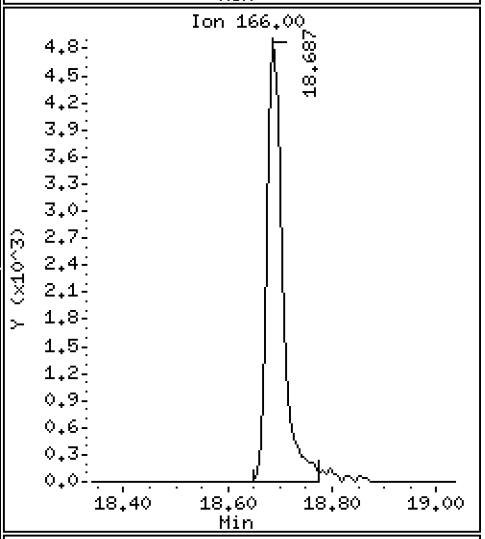
62 Carbazole

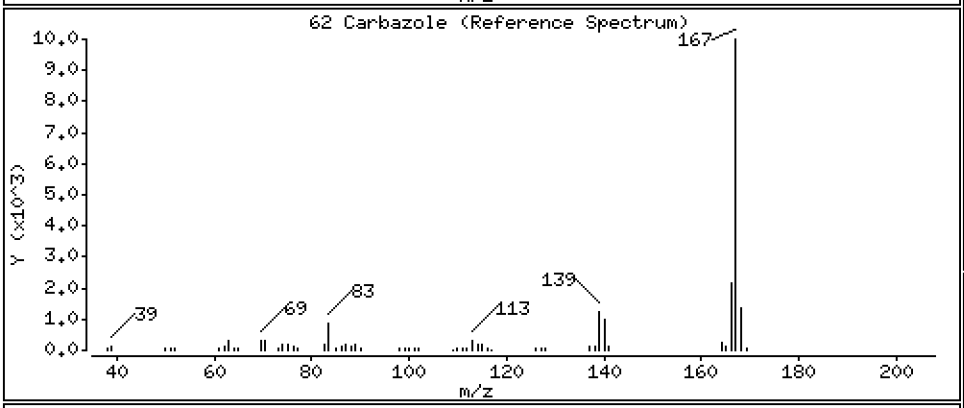
Concentration: 0.4493 ug/mL

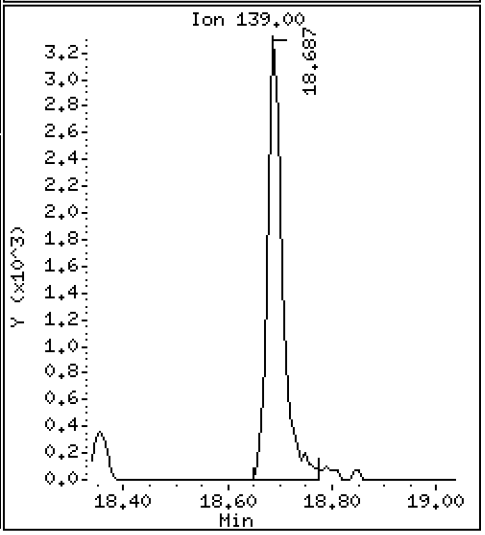


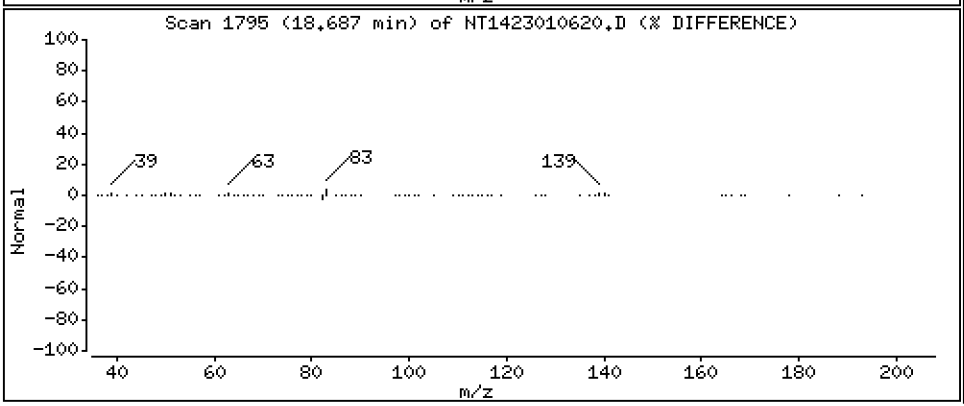












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

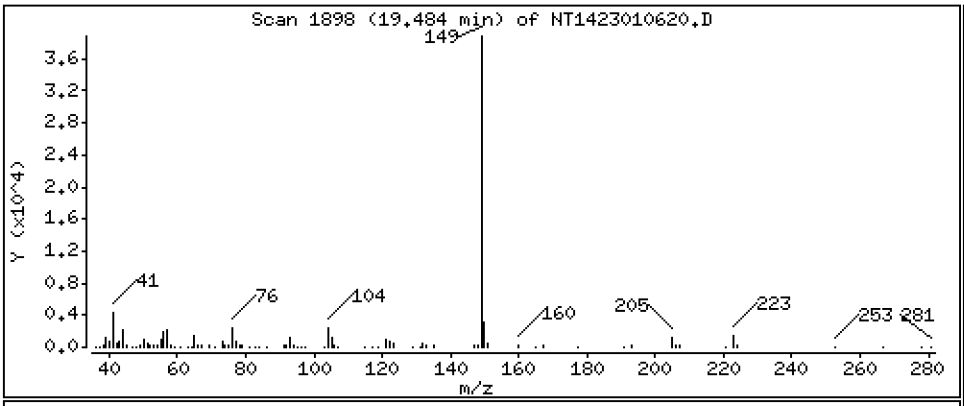
Operator: VTS

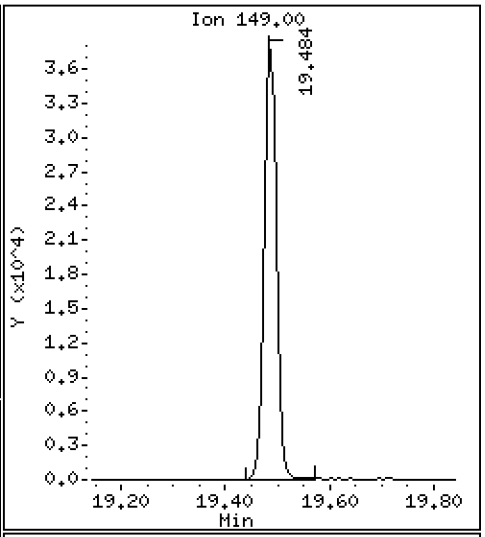
Column phase: ZB-5msi

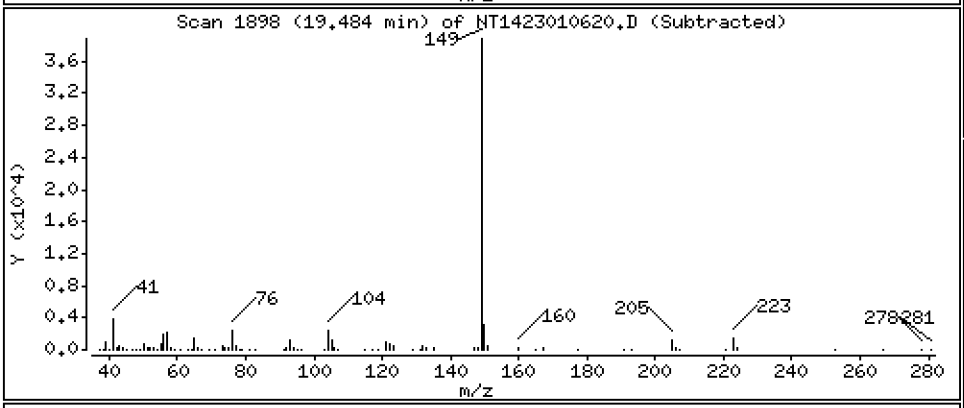
Column diameter: 0.25

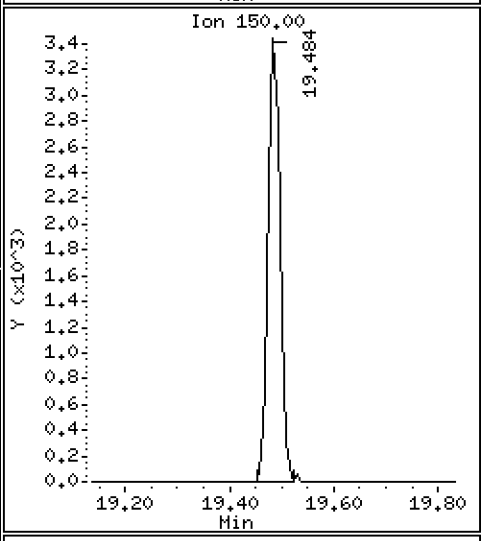
63 Di-n-butylphthalate

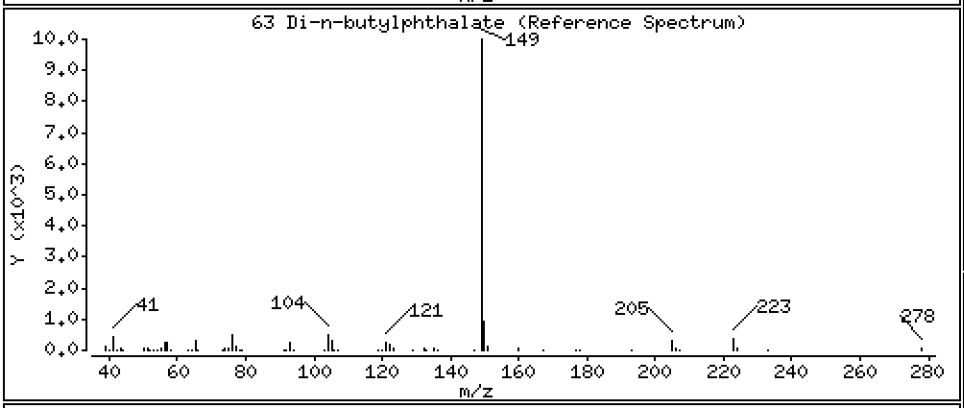
Concentration: 0.4800 ug/mL

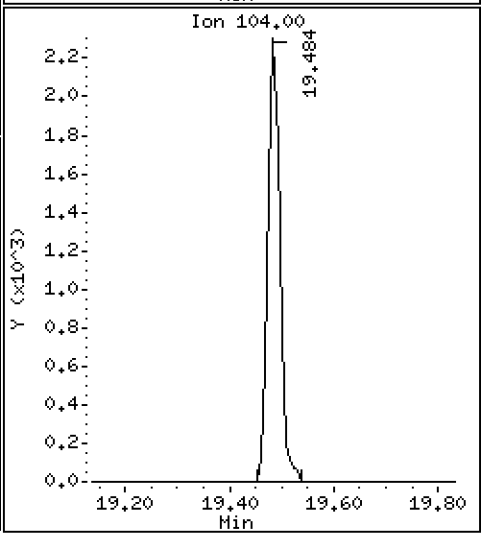


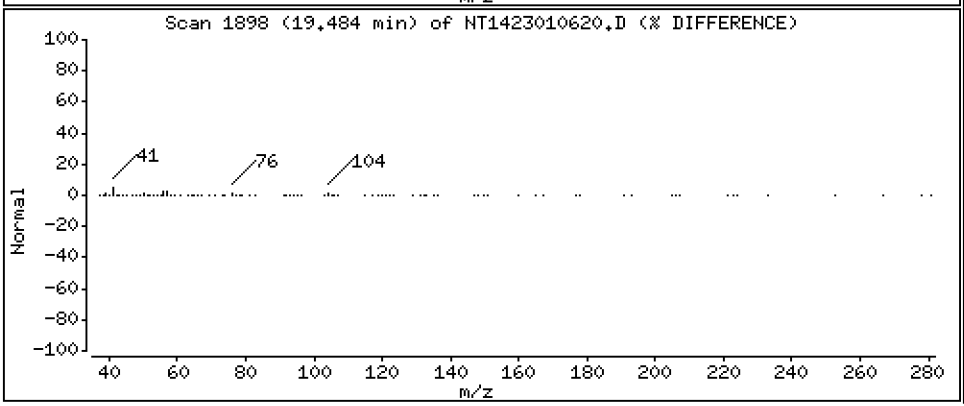












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

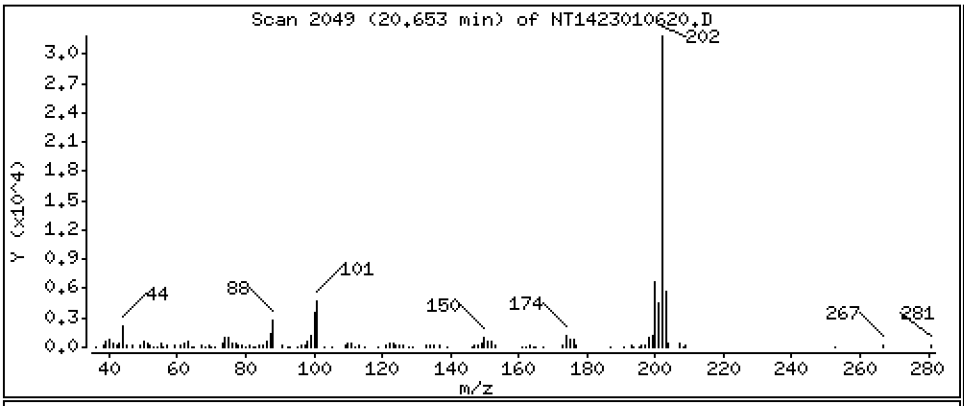
Operator: VTS

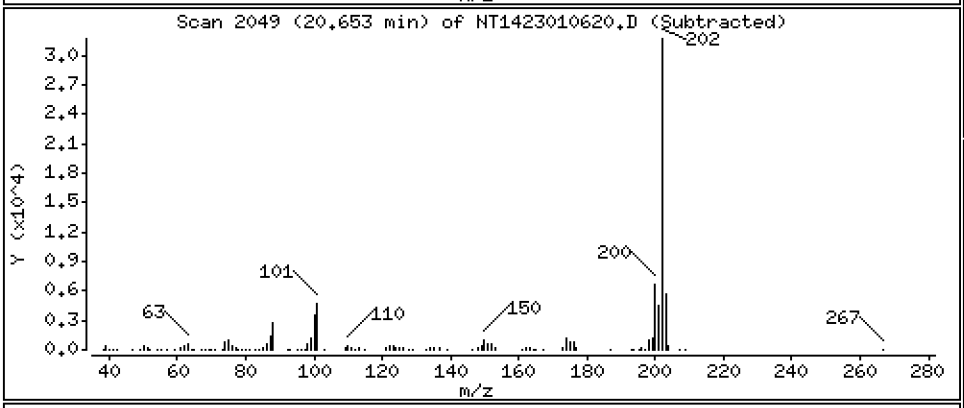
Column phase: ZB-5msi

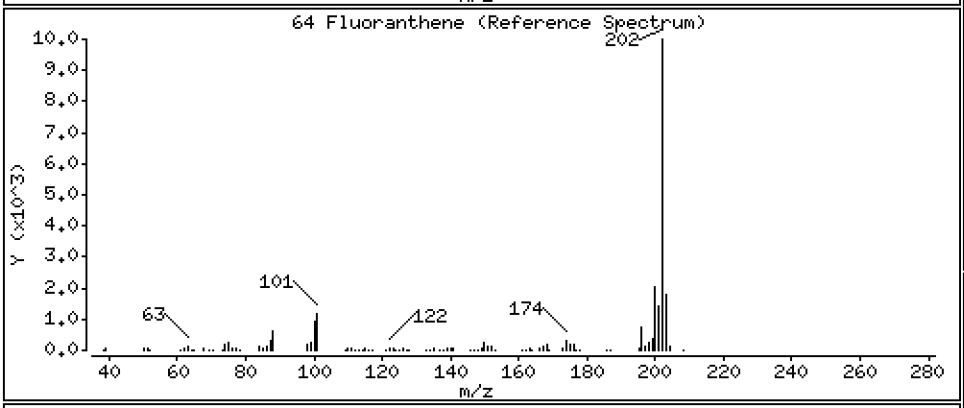
Column diameter: 0.25

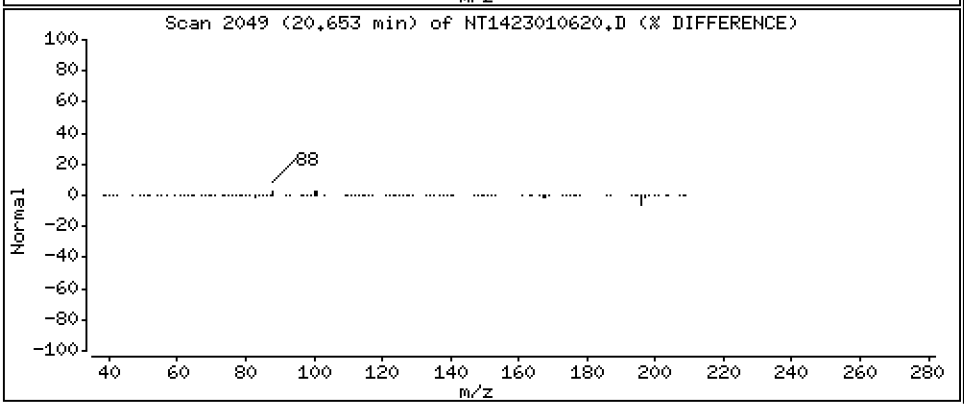
64 Fluoranthene

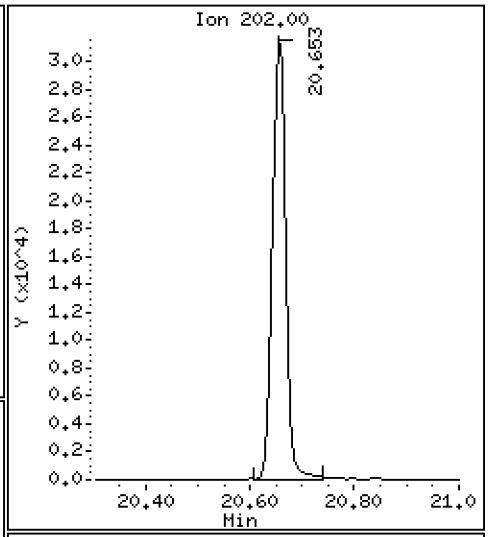
Concentration: 0.4778 ug/mL

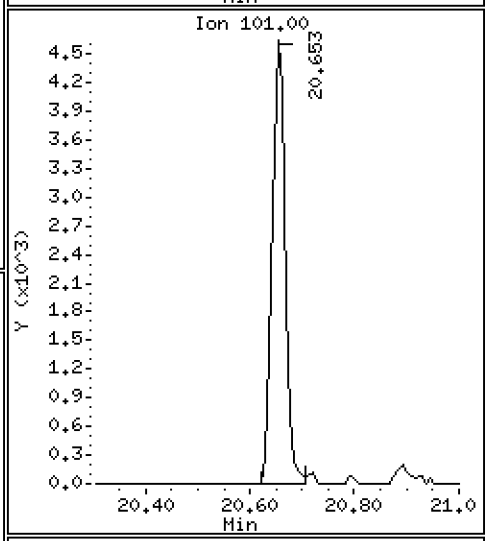


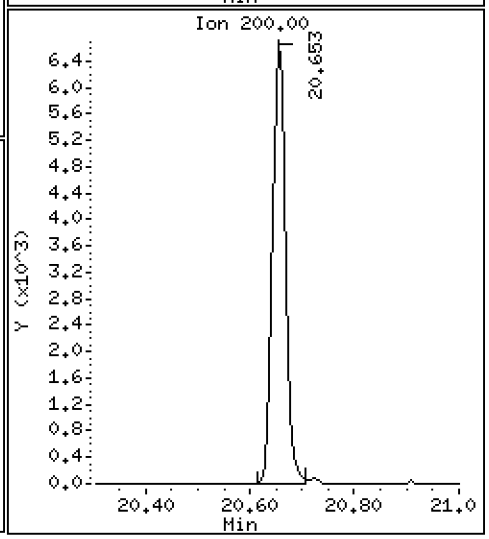












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

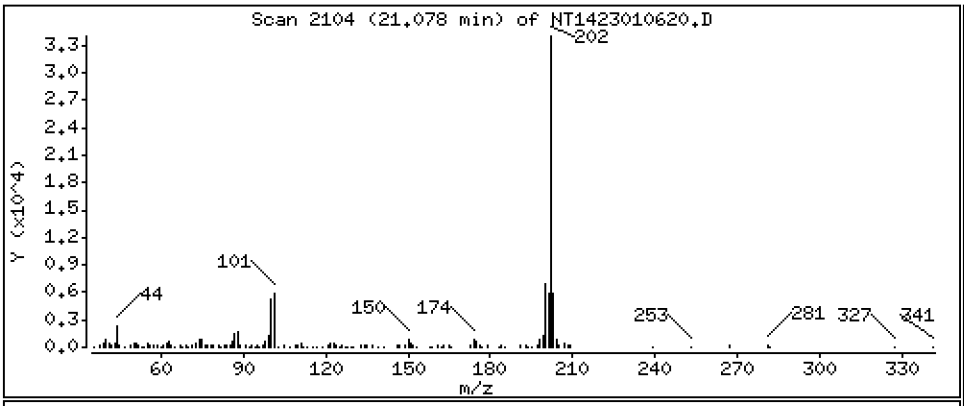
Operator: VTS

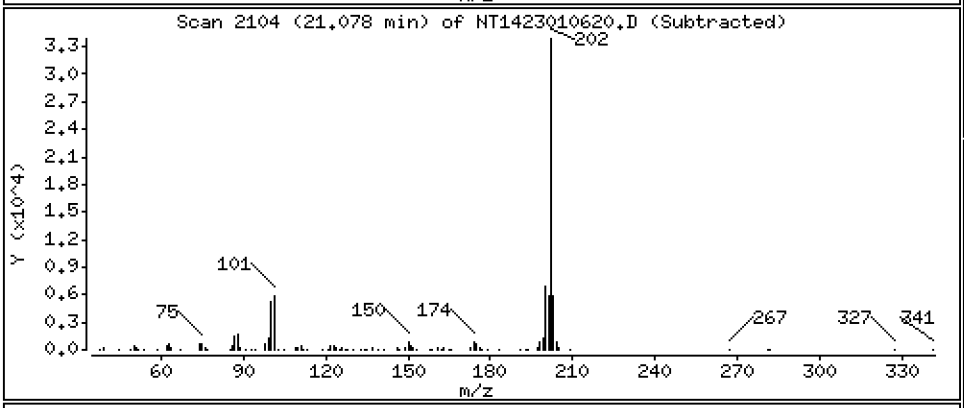
Column phase: ZB-5msi

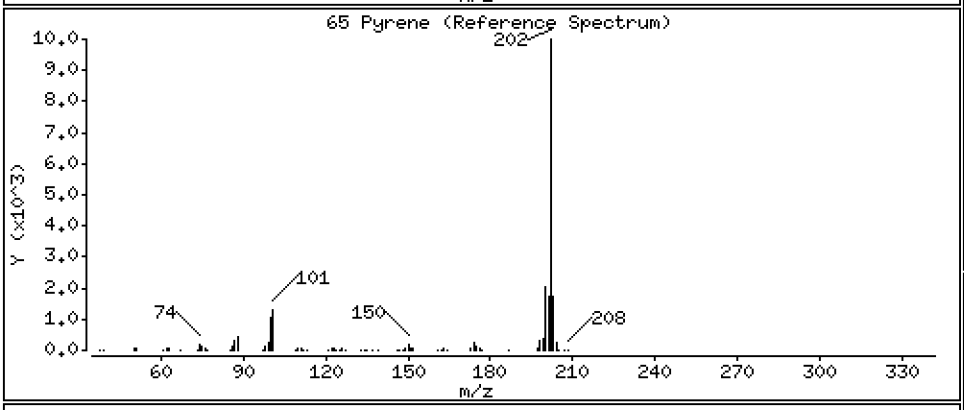
Column diameter: 0.25

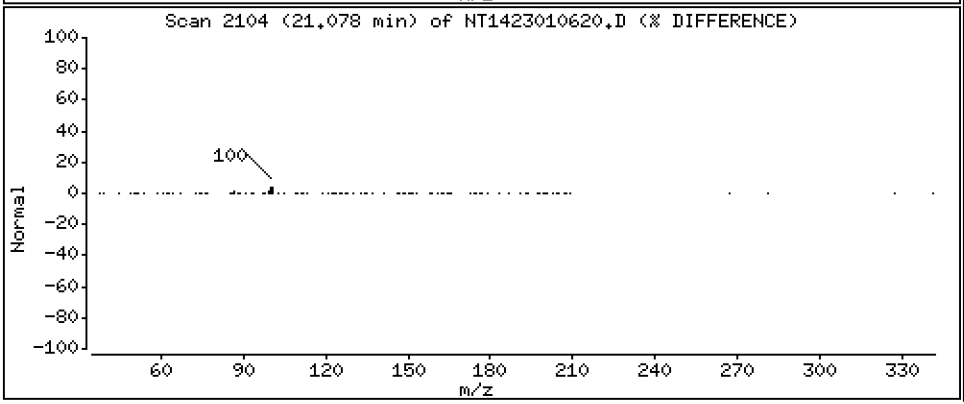
65 Pyrene

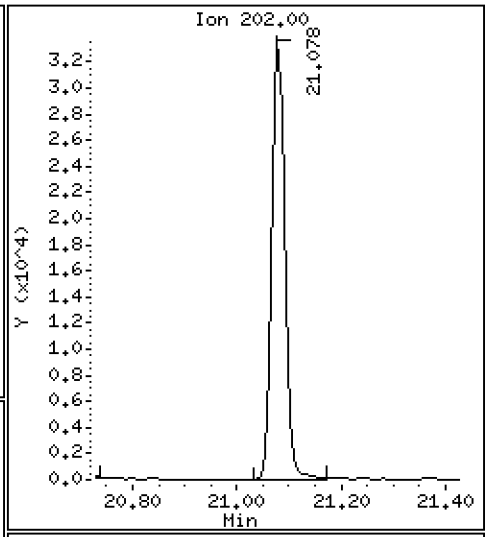
Concentration: 0.4775 ug/mL

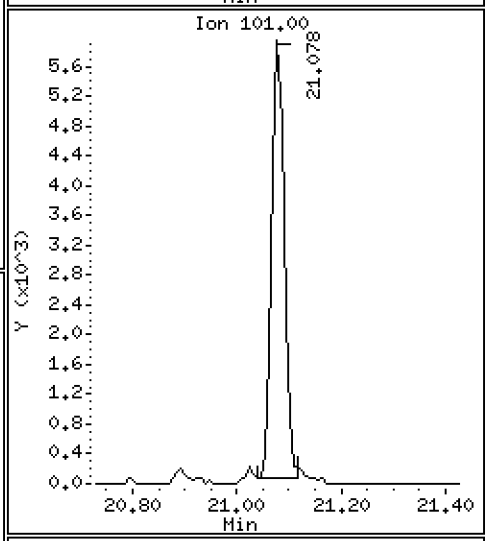


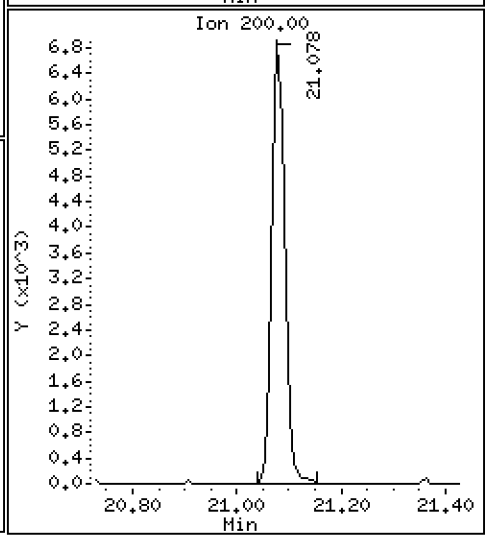












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

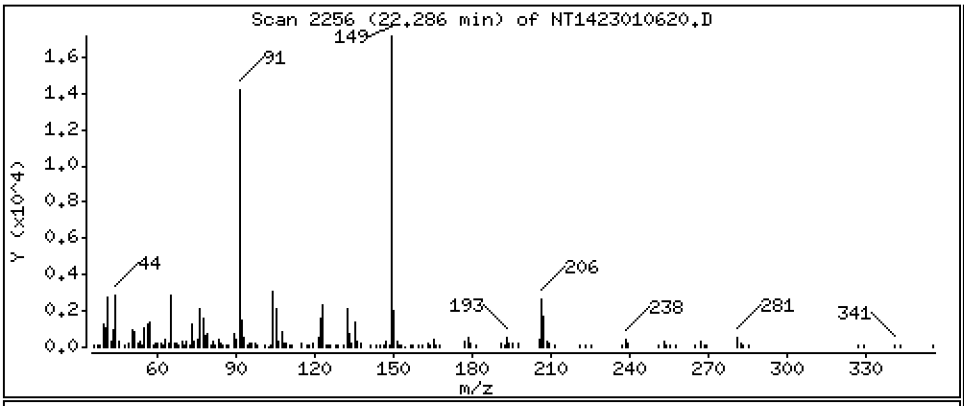
Operator: VTS

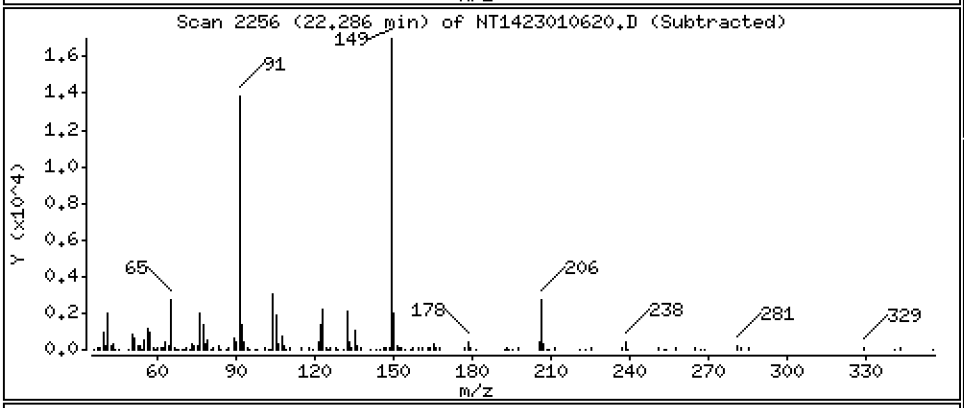
Column phase: ZB-5msi

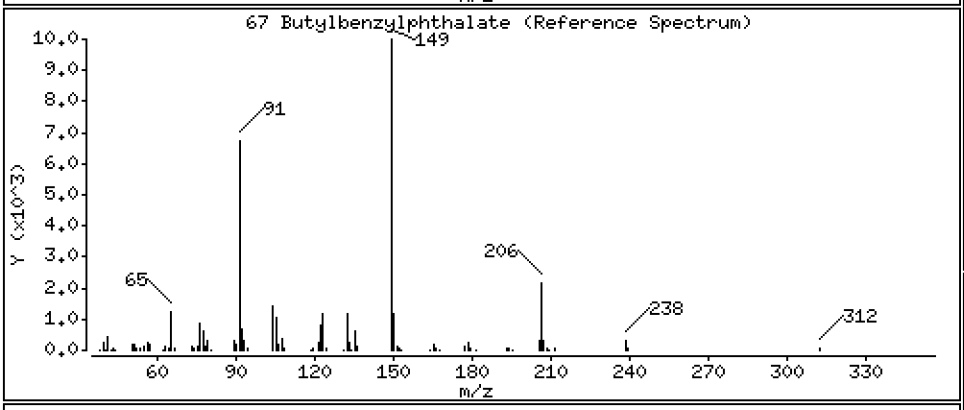
Column diameter: 0.25

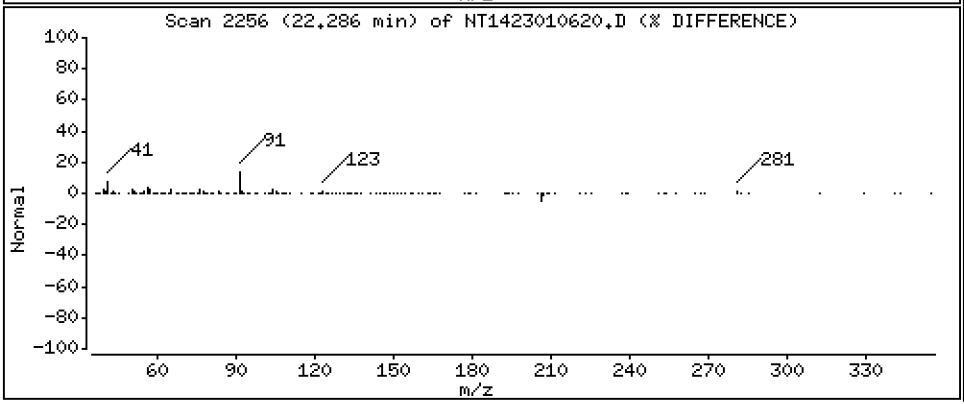
67 Butylbenzylphthalate

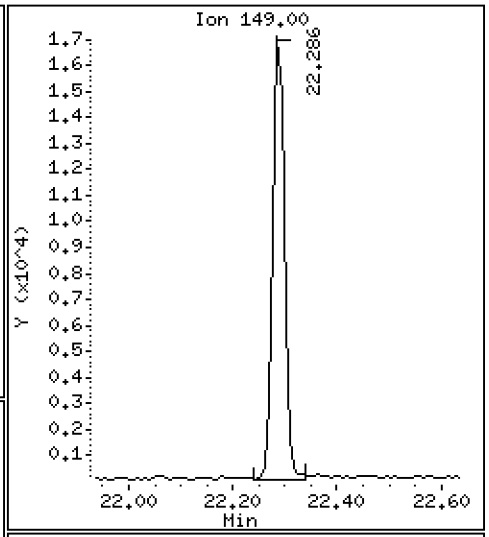
Concentration: 0.5680 ug/mL

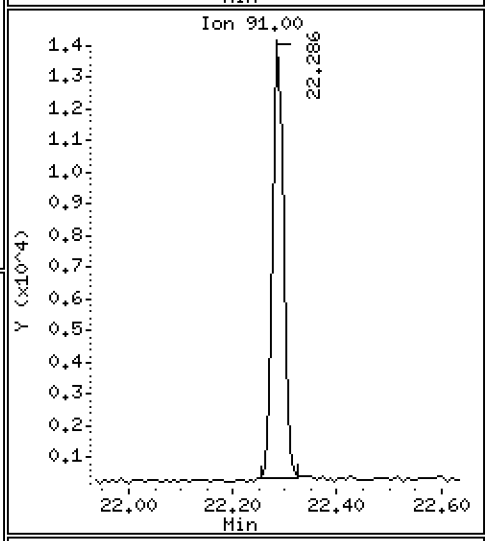


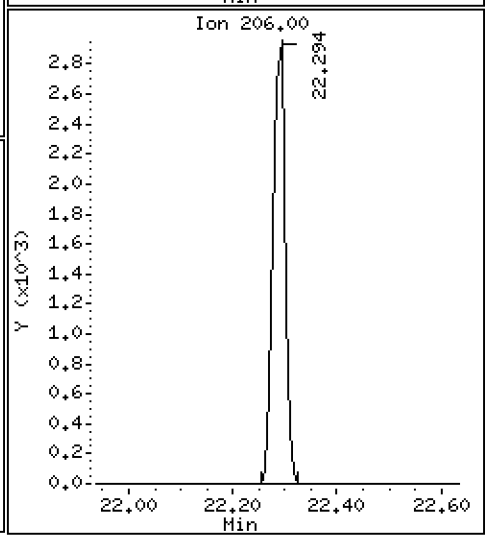












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

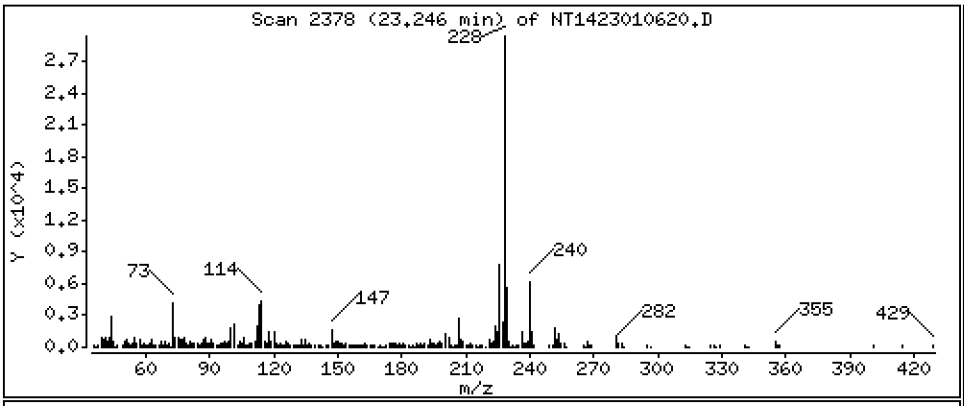
Operator: VTS

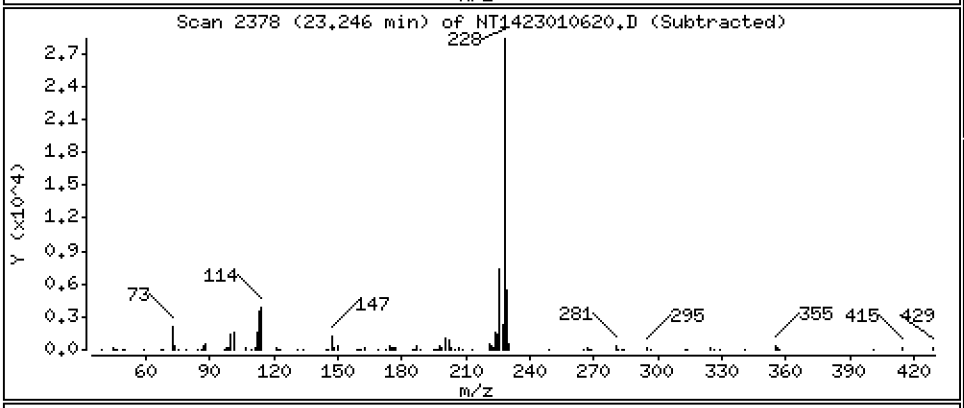
Column phase: ZB-5msi

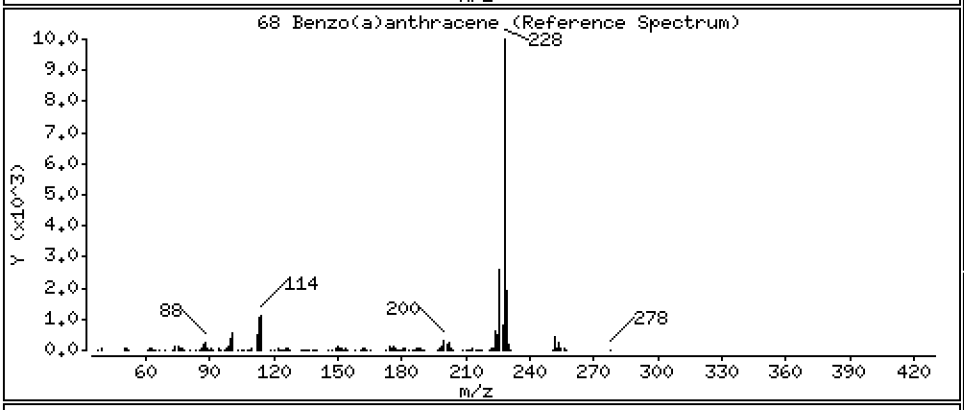
Column diameter: 0.25

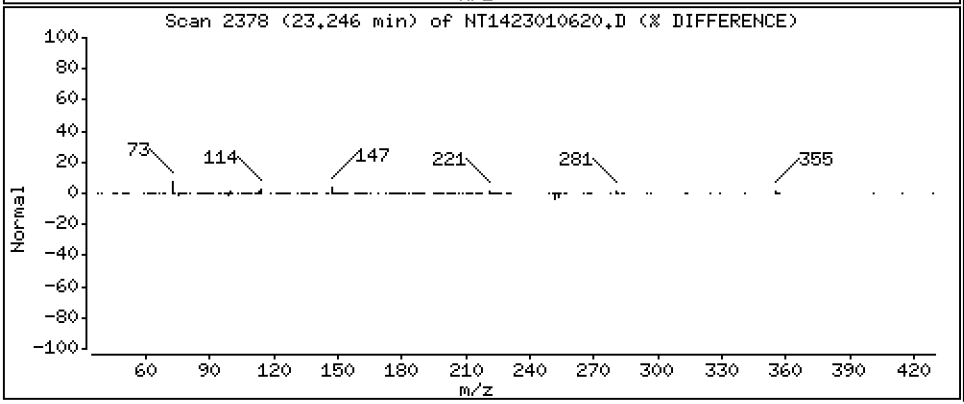
68 Benzo(a)anthracene

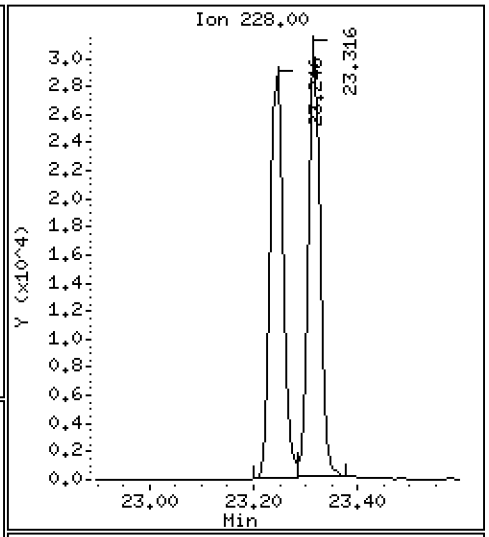
Concentration: 0.4619 ug/mL

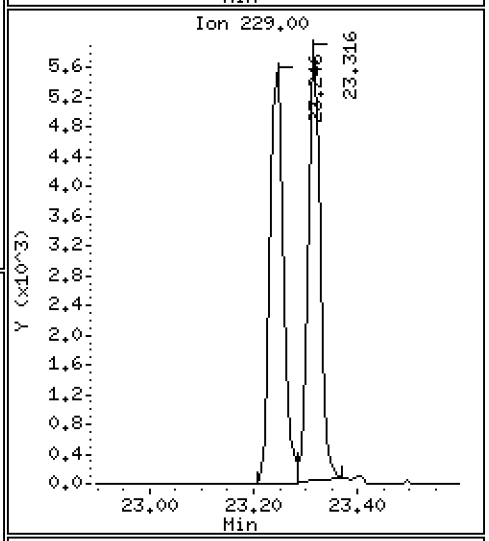


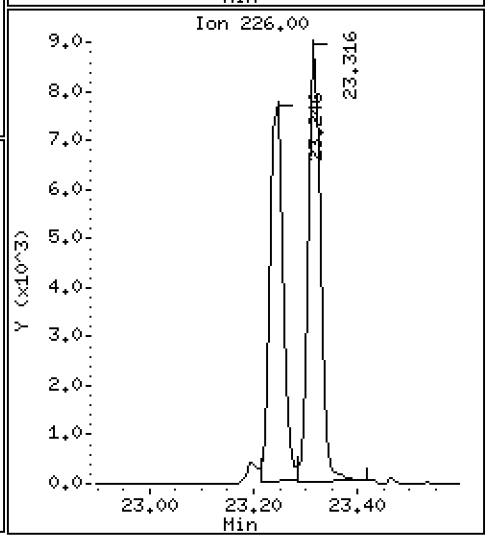












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

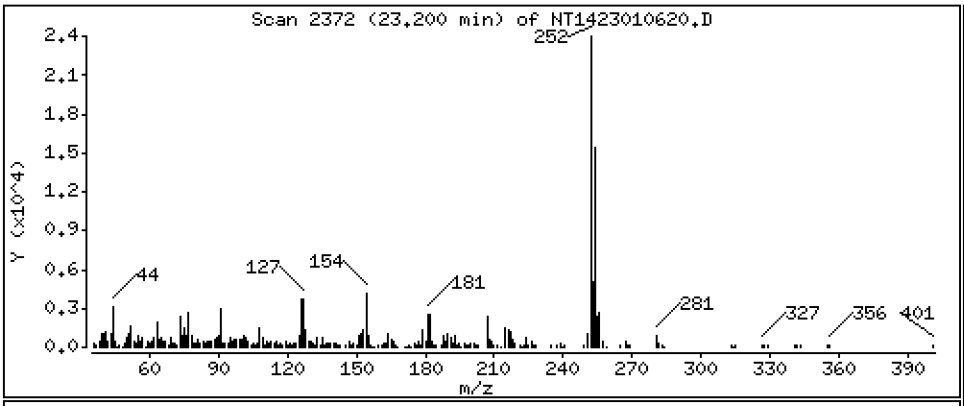
Operator: VTS

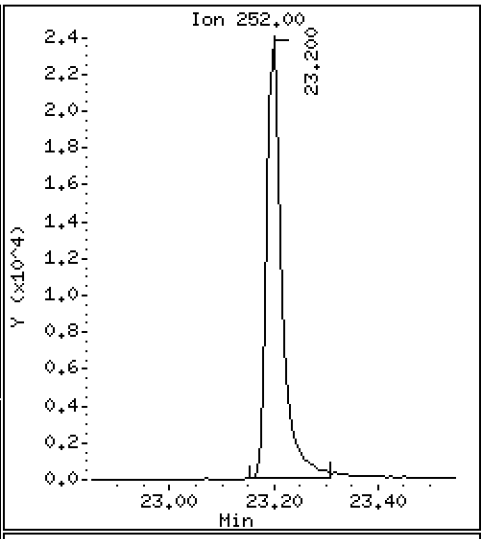
Column phase: ZB-5msi

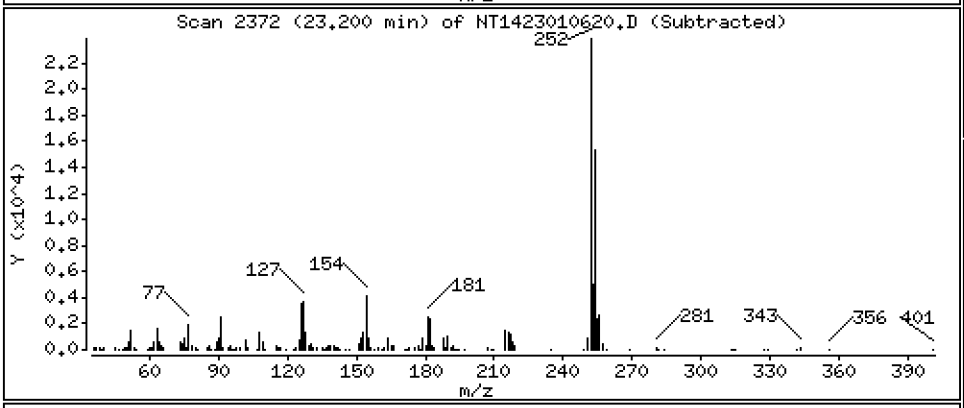
Column diameter: 0.25

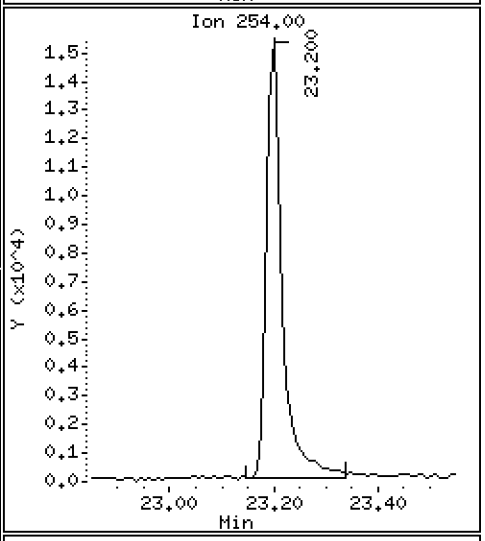
70 3,3'-Dichlorobenzidine

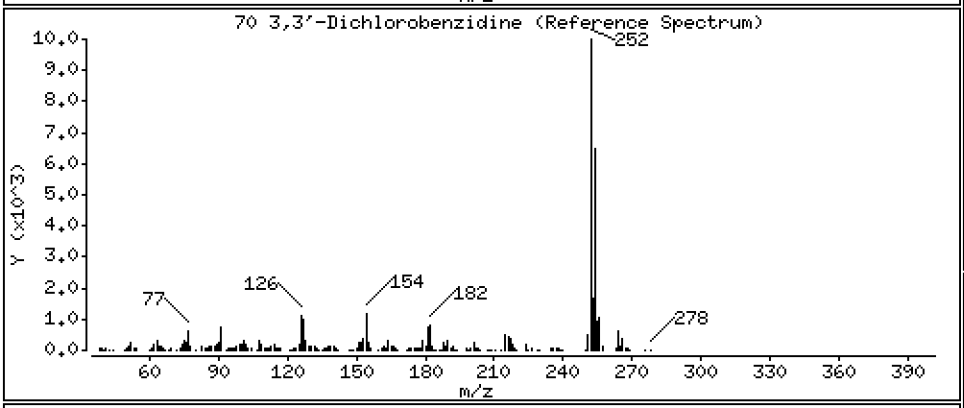
Concentration: 1.470 ug/mL

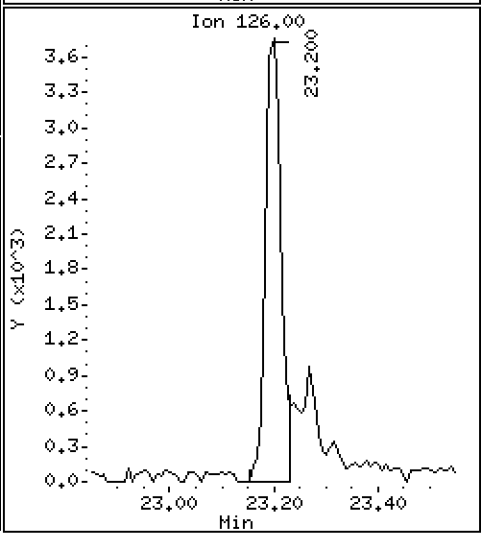


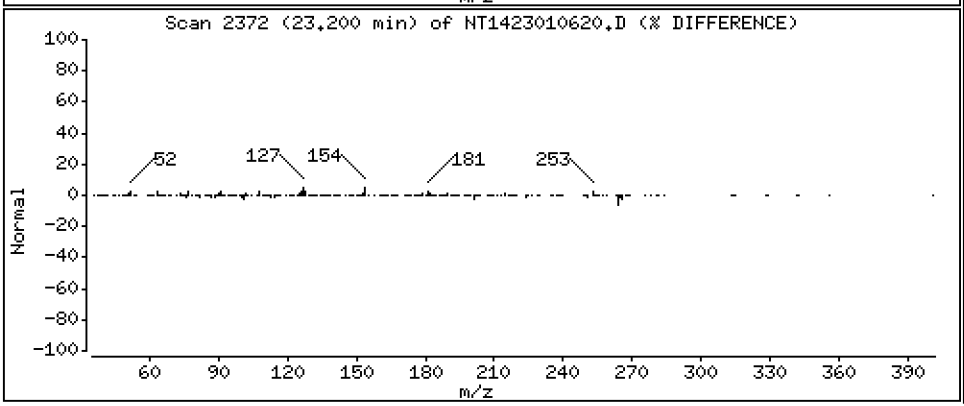












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

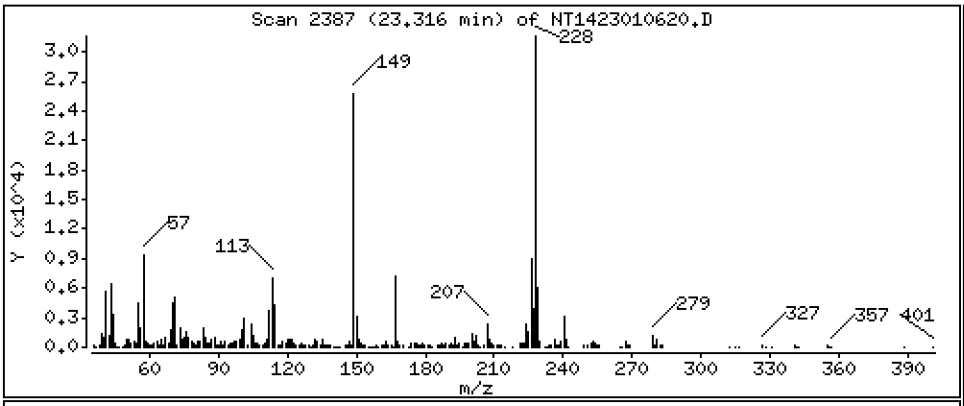
Operator: VTS

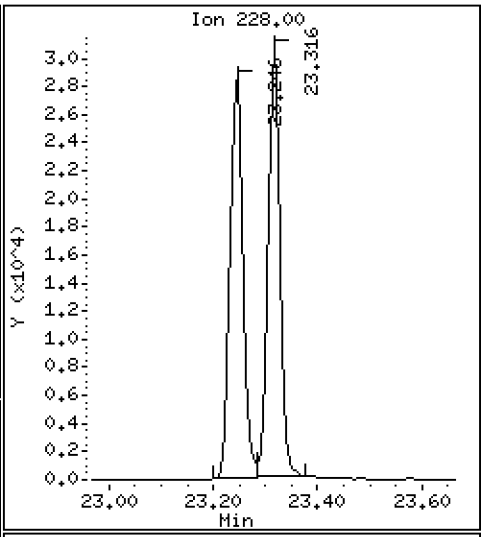
Column phase: ZB-5msi

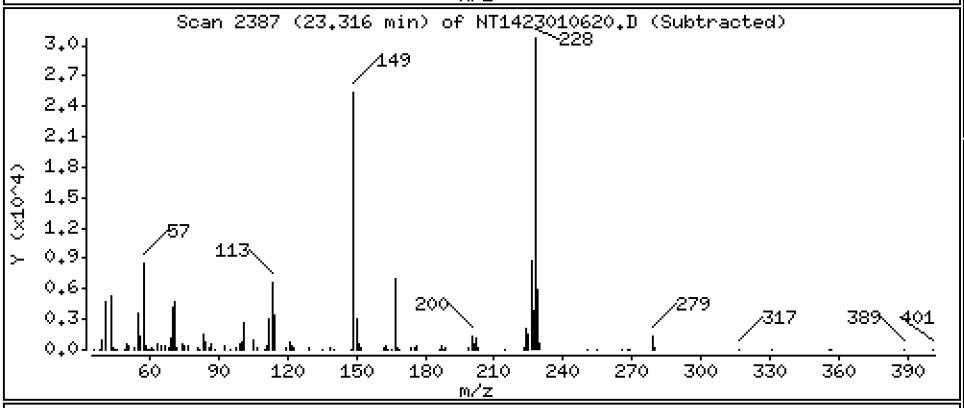
Column diameter: 0.25

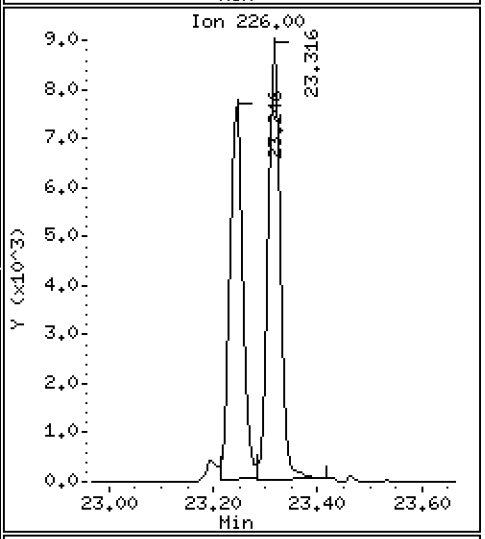
71 Chrysene

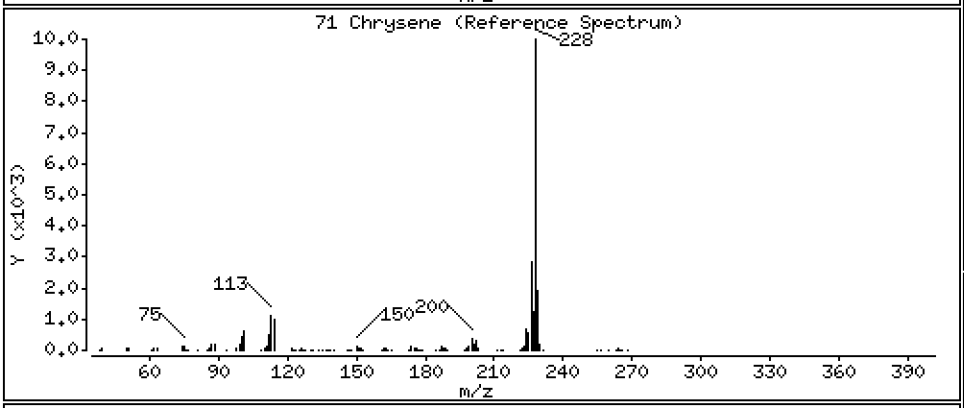
Concentration: 0.4589 ug/mL

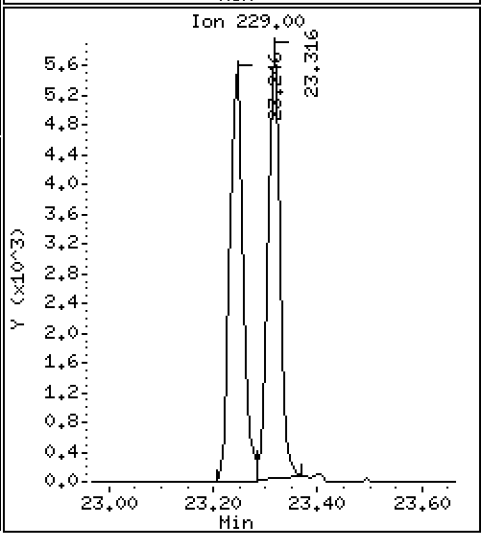


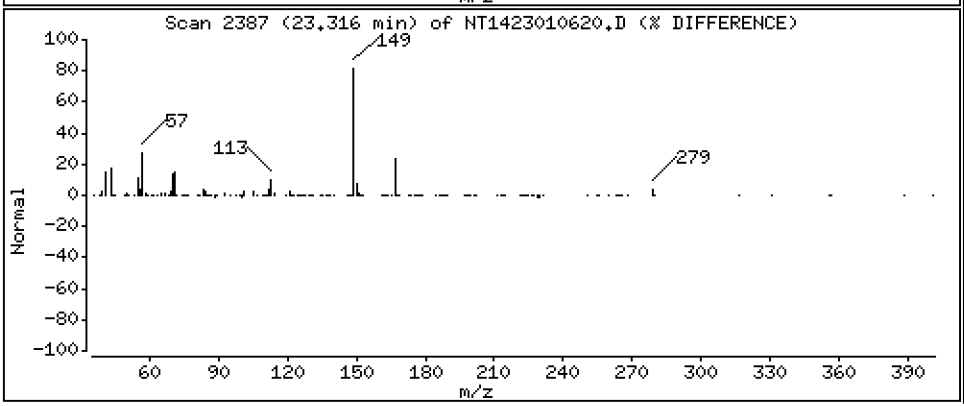












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

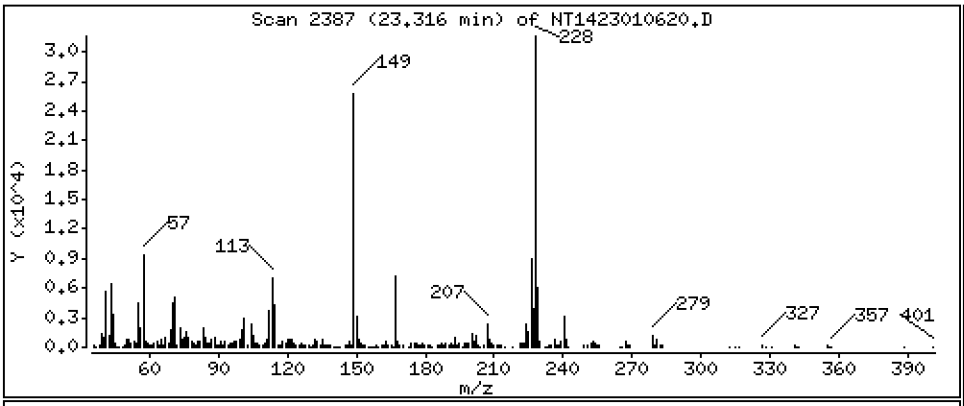
Operator: VTS

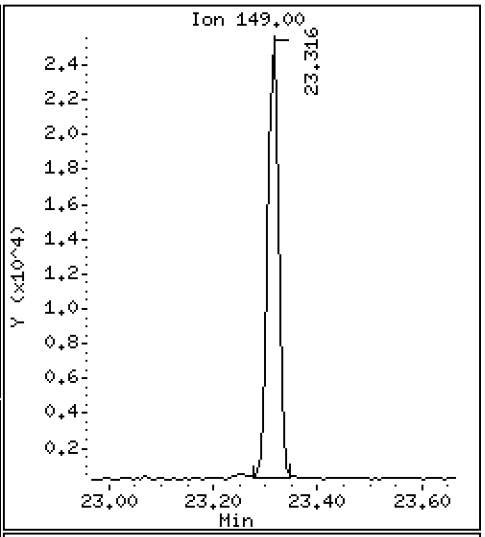
Column phase: ZB-5msi

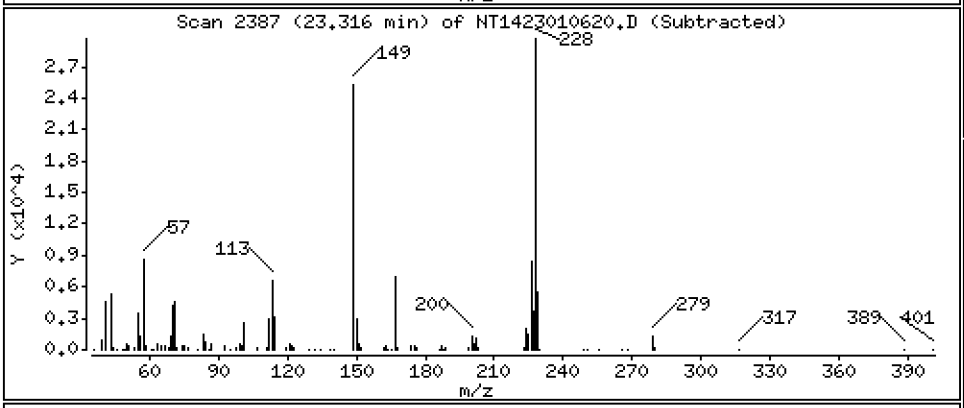
Column diameter: 0.25

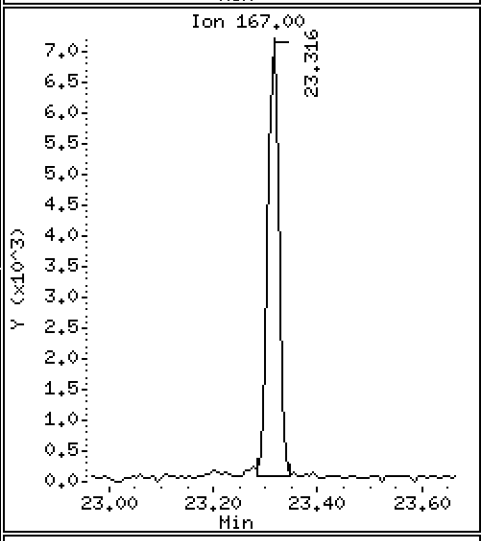
72 bis(2-Ethylhexyl)phthalate

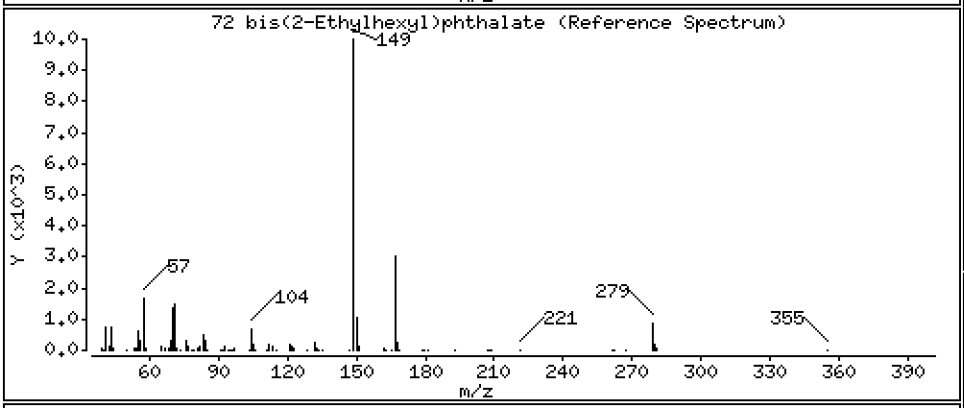
Concentration: 0.5058 ug/mL

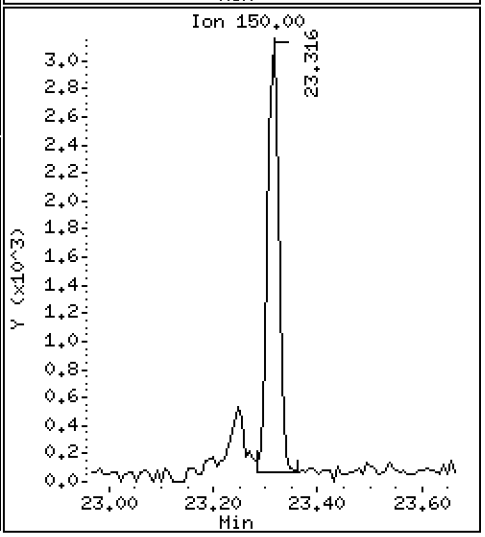


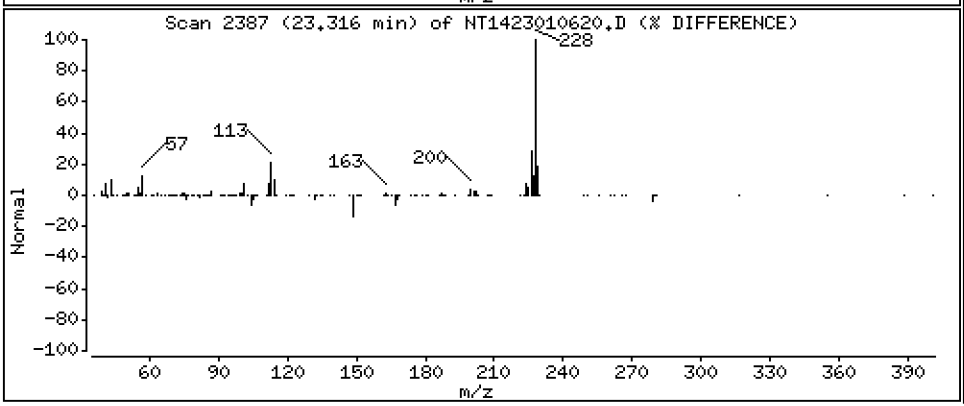












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

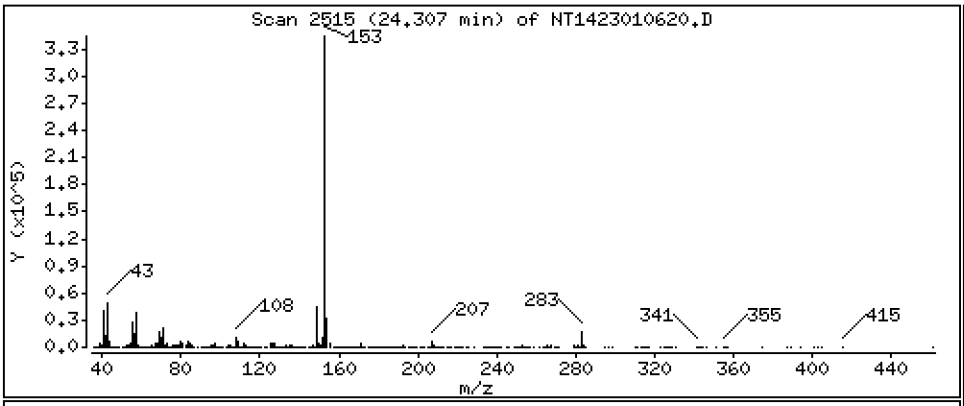
Operator: VTS

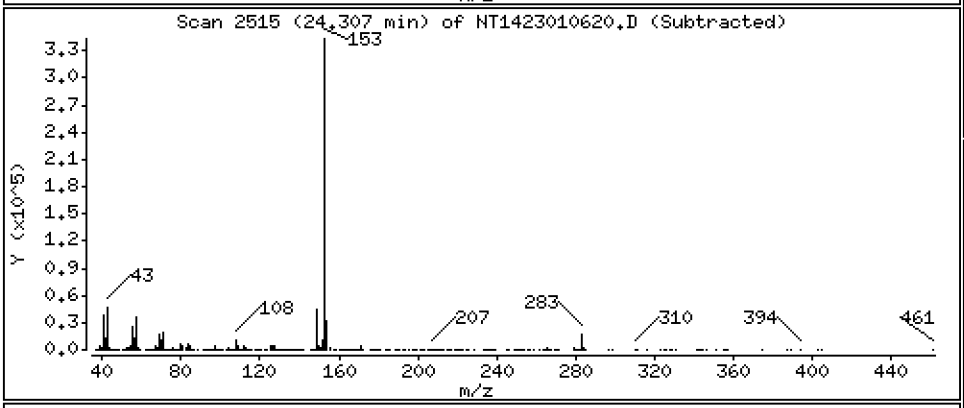
Column phase: ZB-5msi

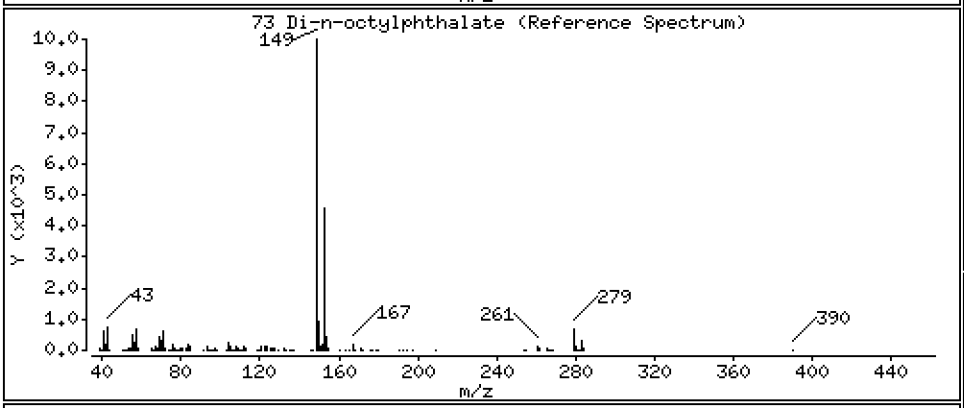
Column diameter: 0.25

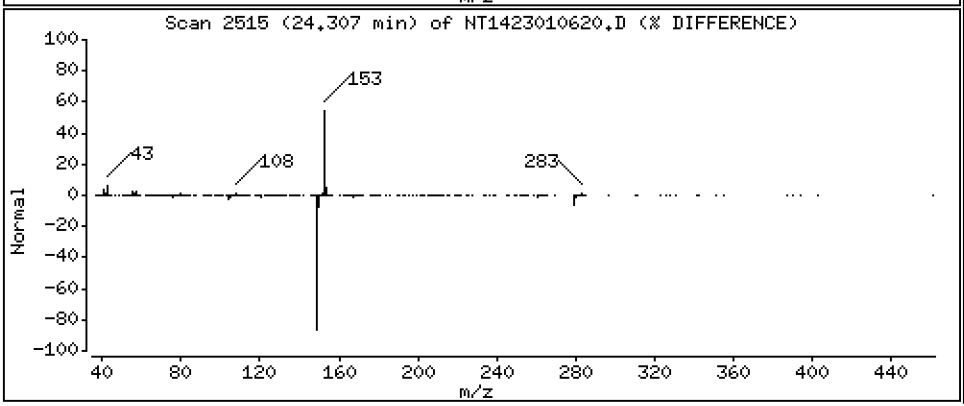
73 Di-n-octylphthalate

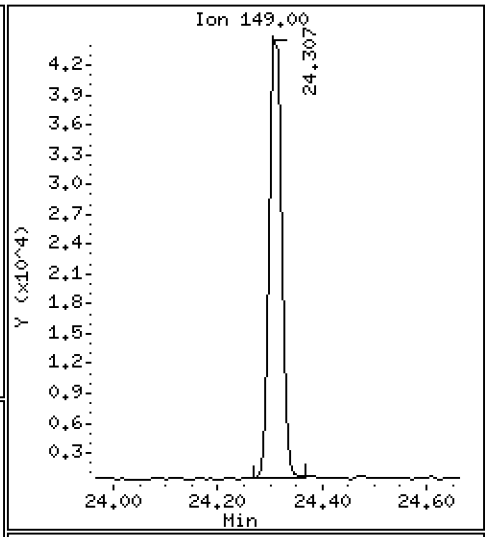
Concentration: 0.4726 ug/mL

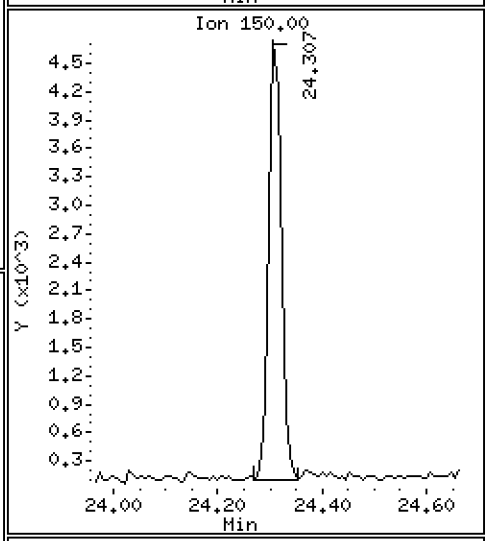


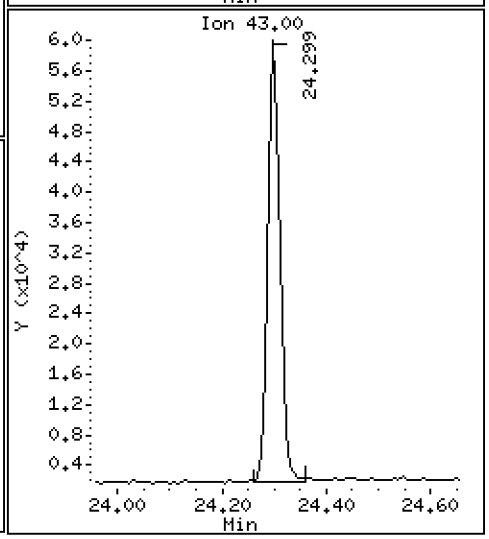












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

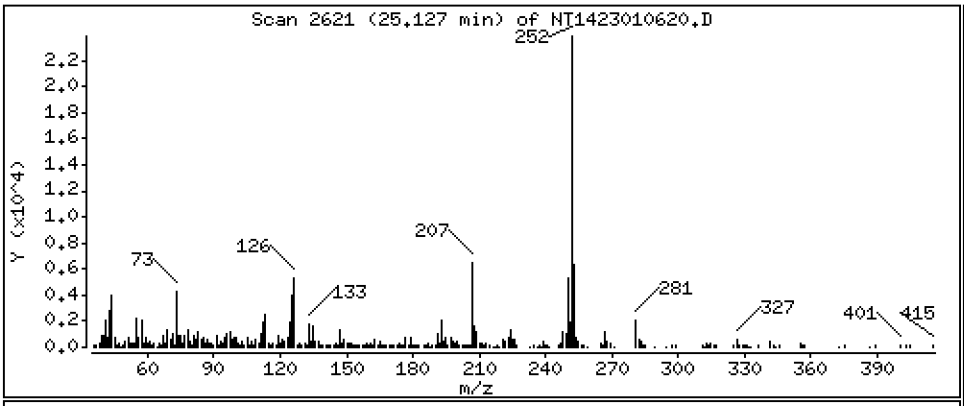
Operator: VTS

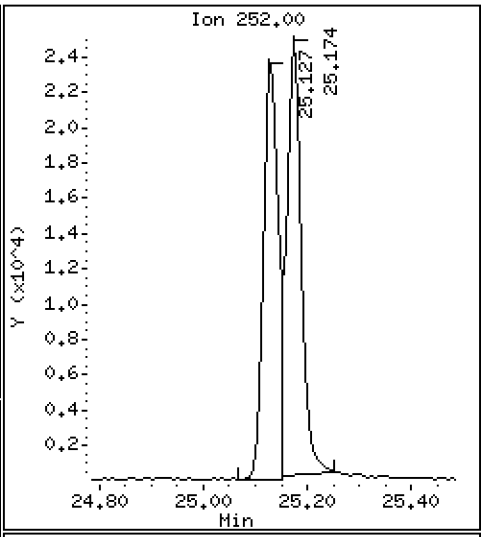
Column phase: ZB-5msi

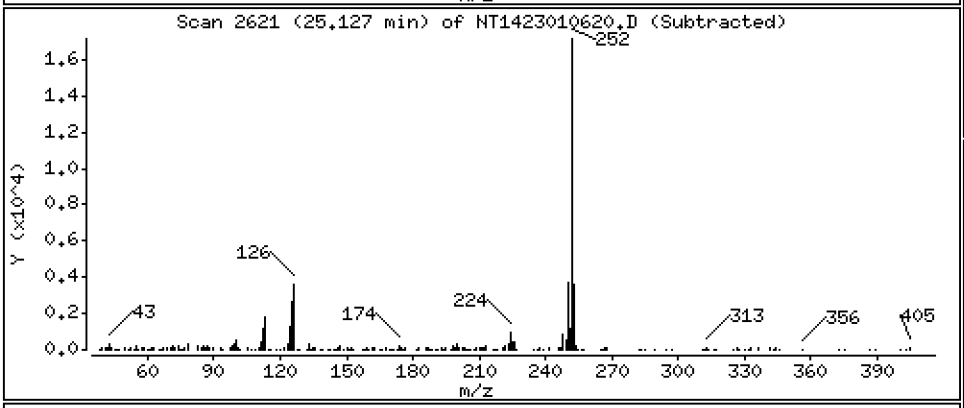
Column diameter: 0.25

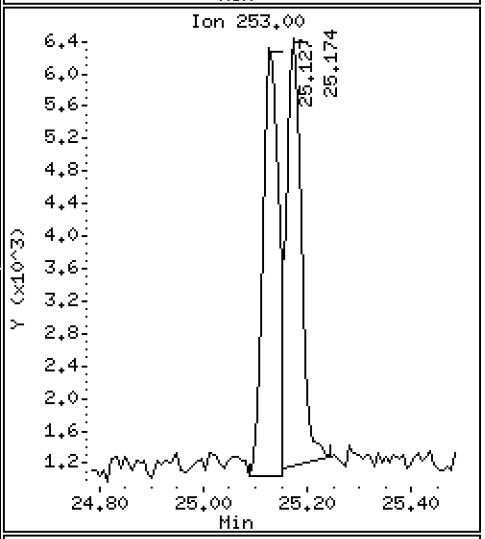
74 Benzo(b)fluoranthene

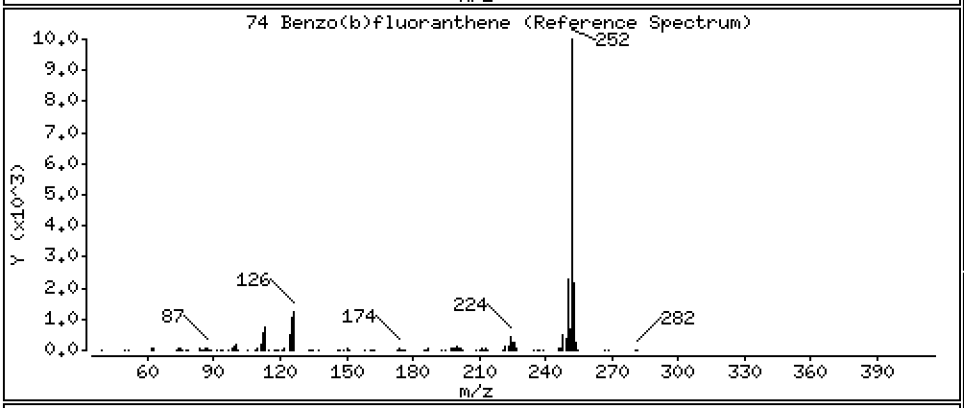
Concentration: 0.4056 ug/mL

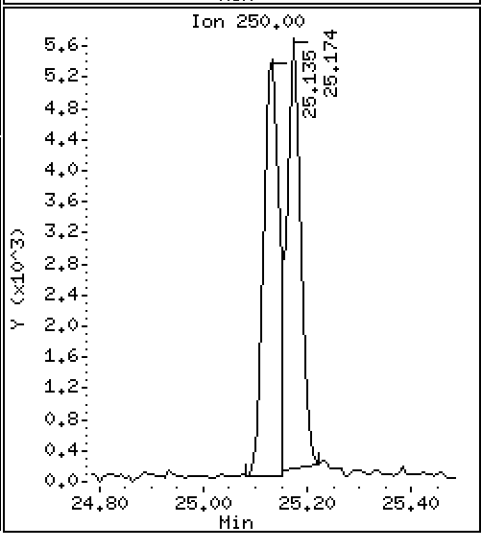


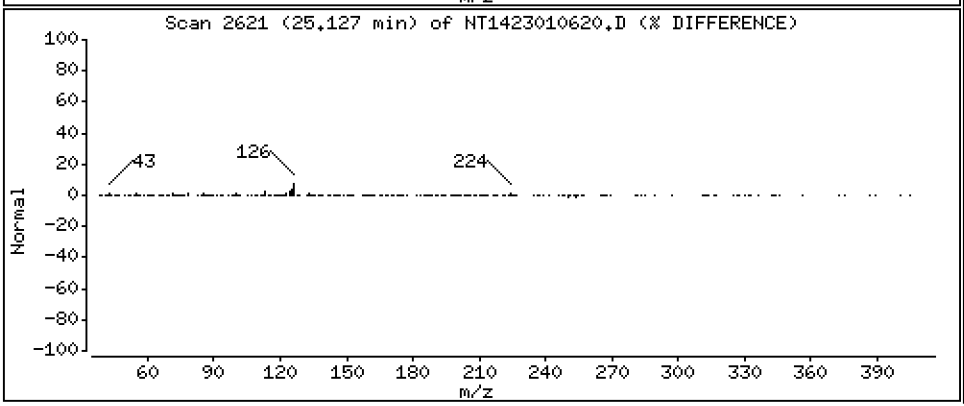












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

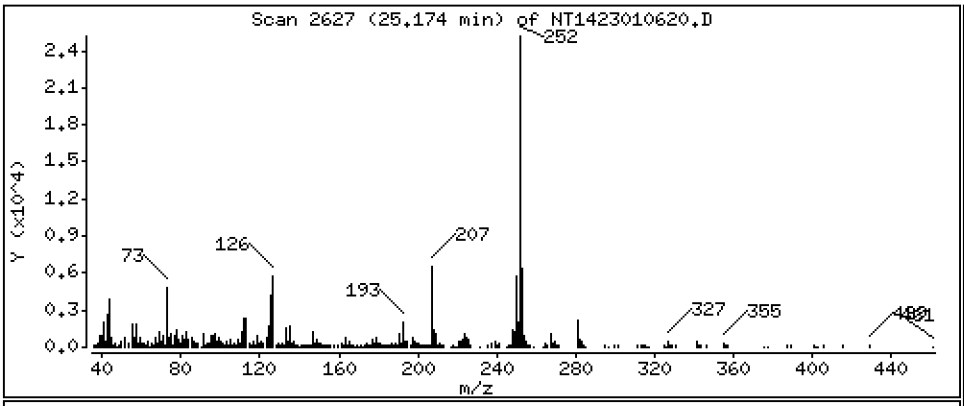
Operator: VTS

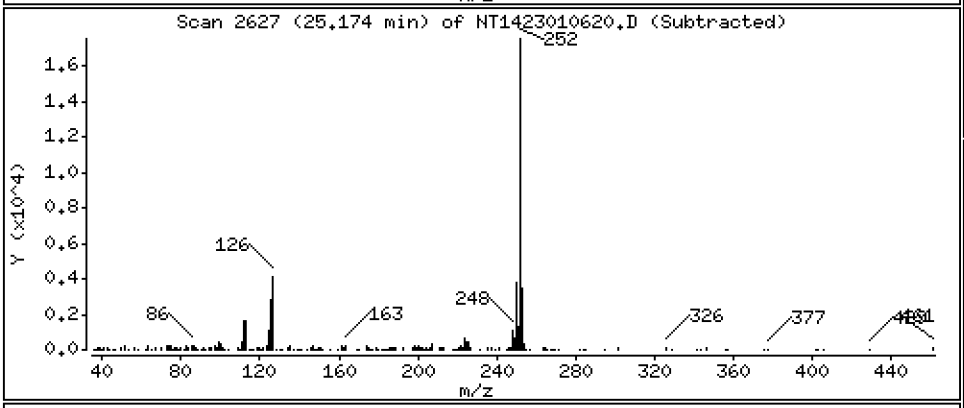
Column phase: ZB-5msi

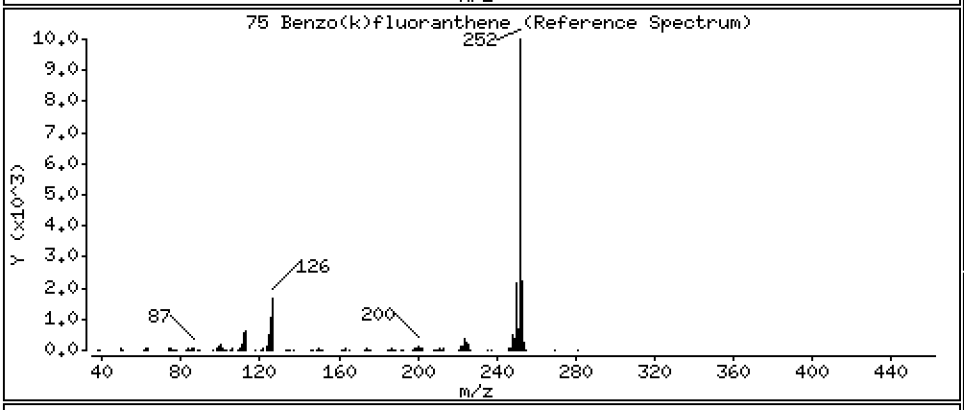
Column diameter: 0.25

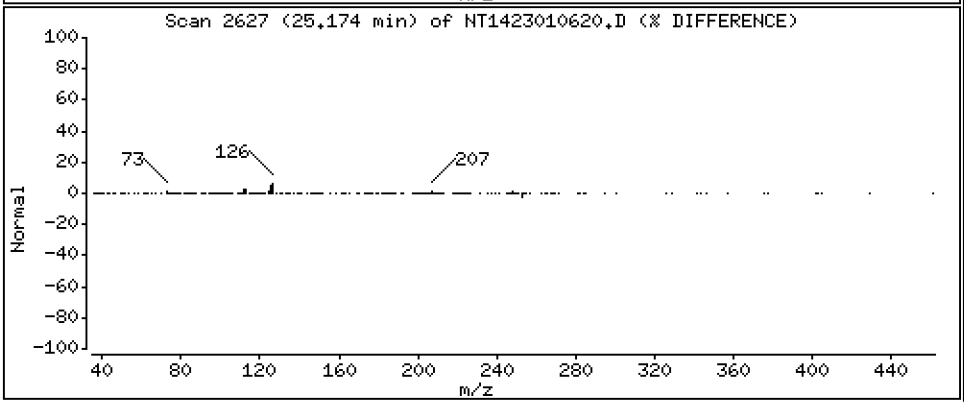
75 Benzo(k)fluoranthene

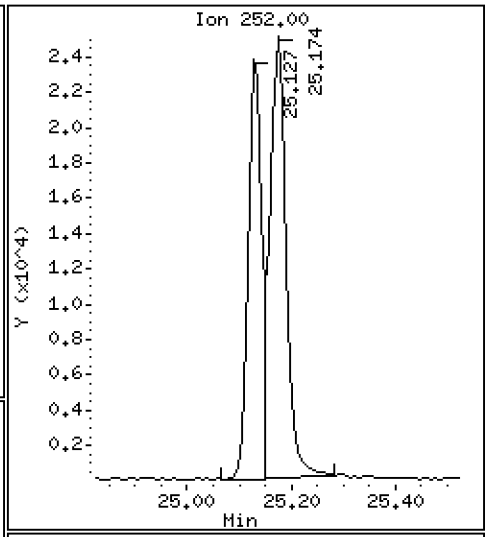
Concentration: 0.4634 ug/mL

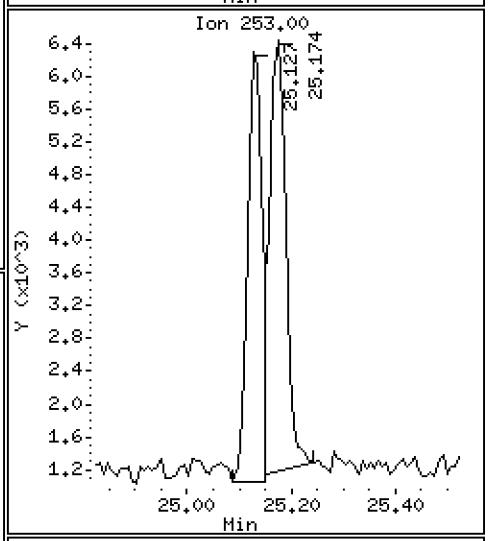


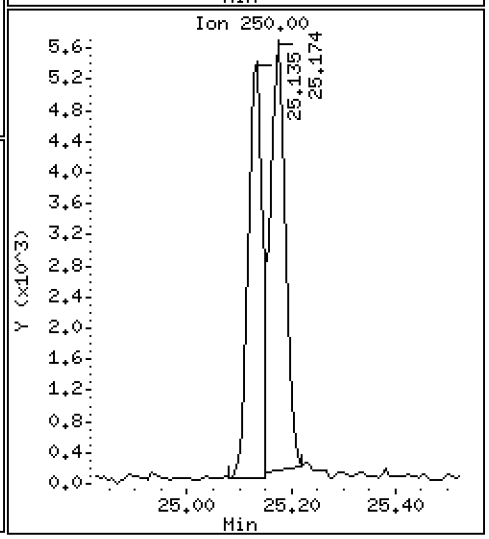












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

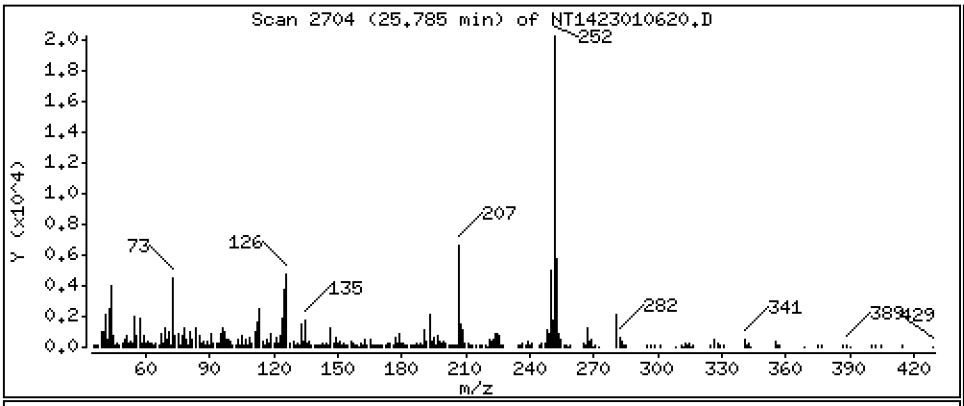
Operator: VTS

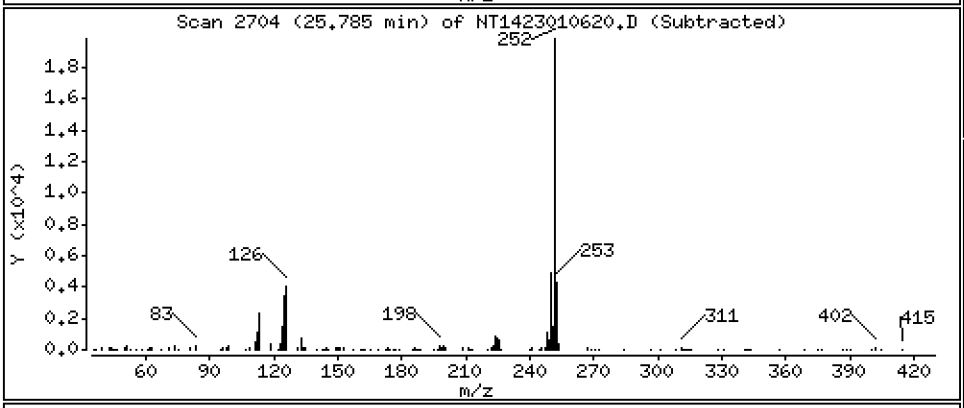
Column phase: ZB-5msi

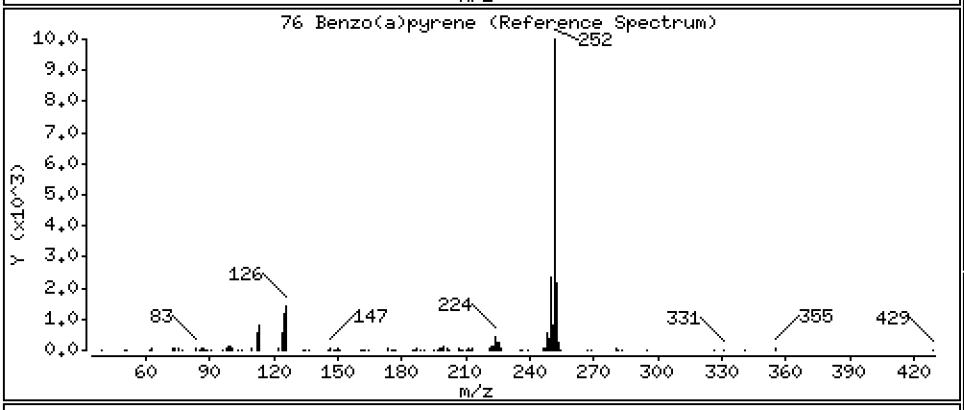
Column diameter: 0.25

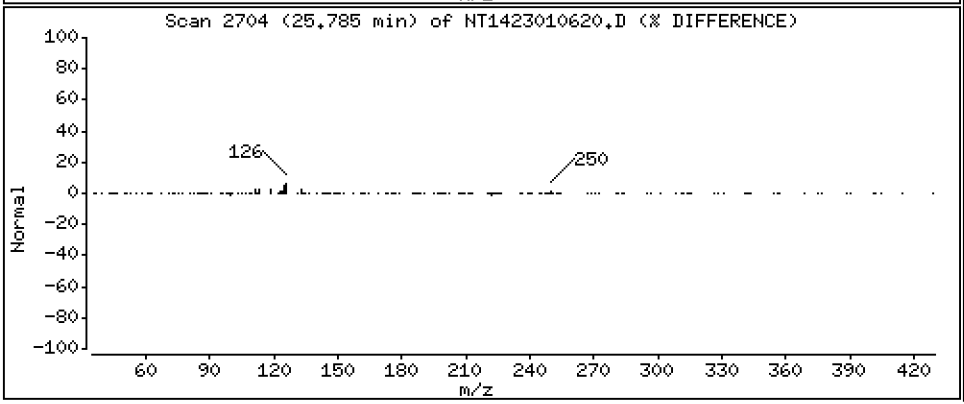
76 Benzo(a)pyrene

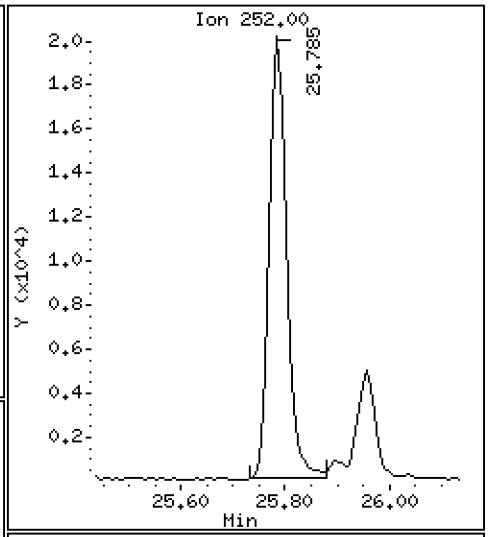
Concentration: 0.4789 ug/mL

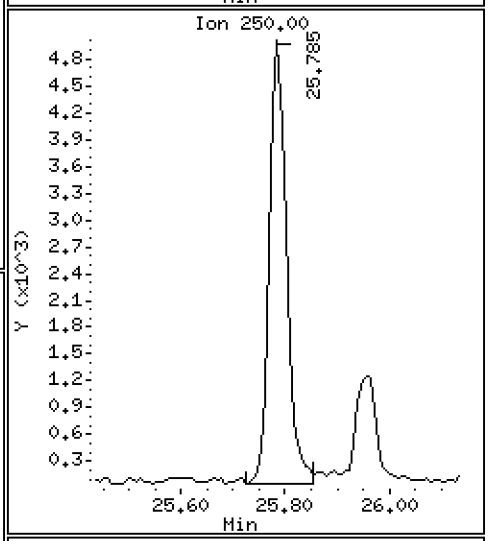


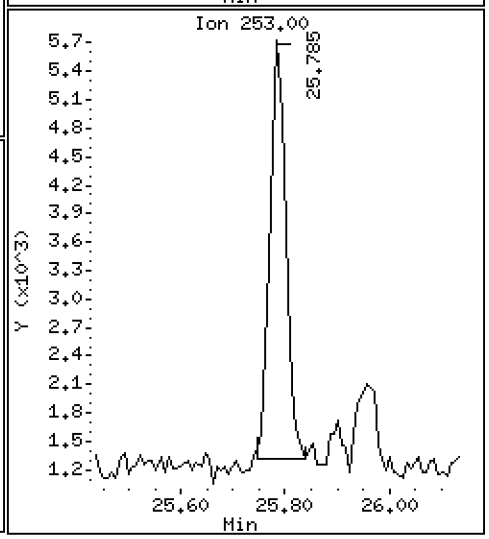












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

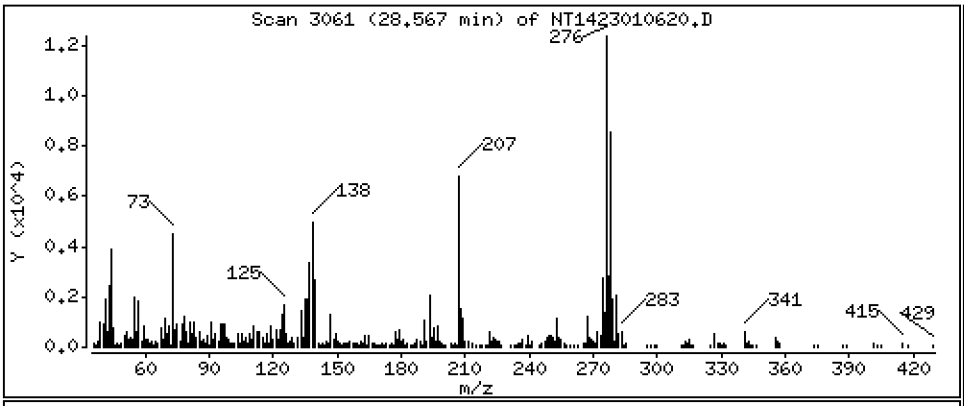
Operator: VTS

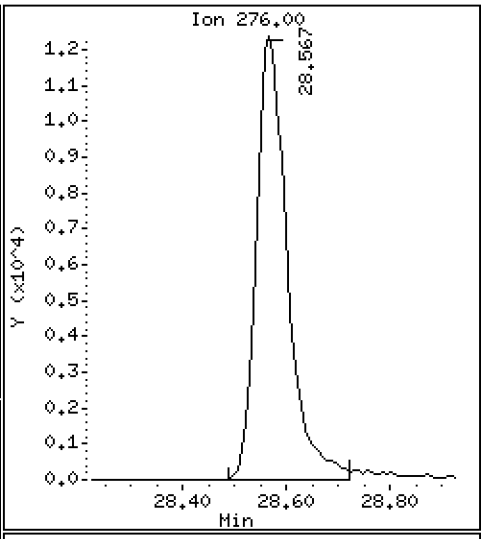
Column phase: ZB-5msi

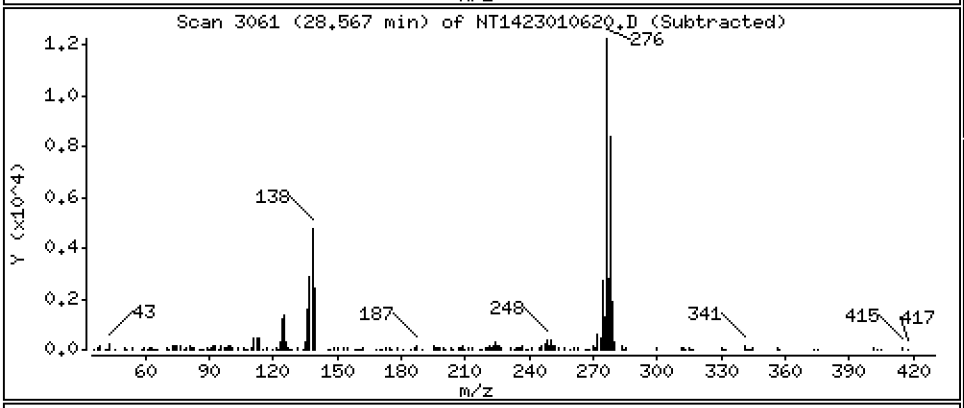
Column diameter: 0.25

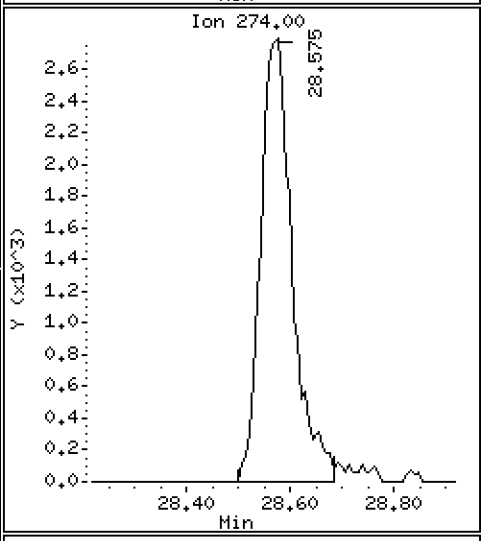
78 Indeno(1,2,3-cd)pyrene

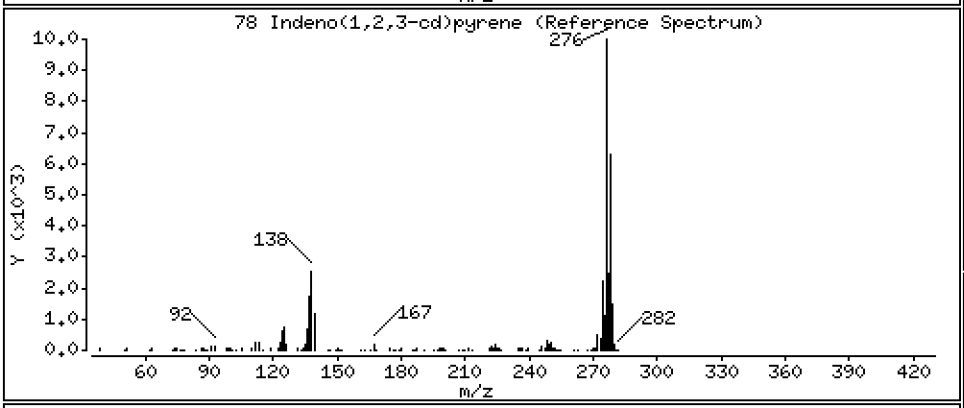
Concentration: 0.4768 ug/mL

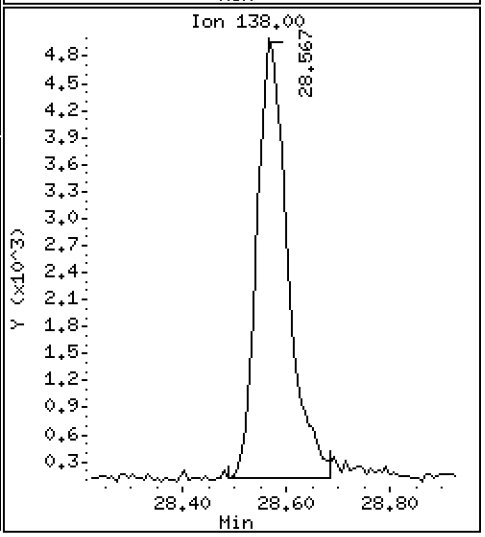


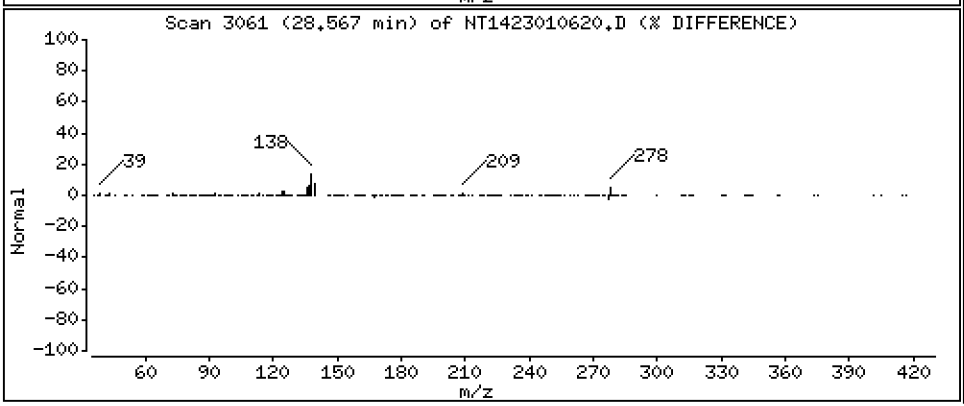












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

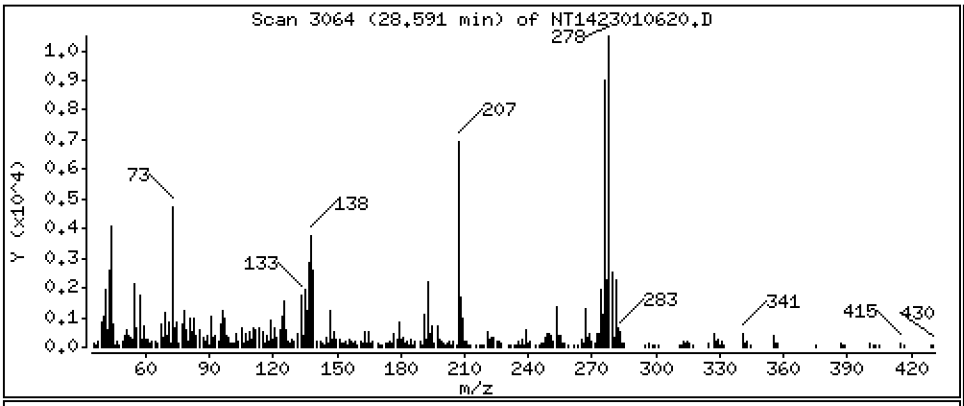
Operator: VTS

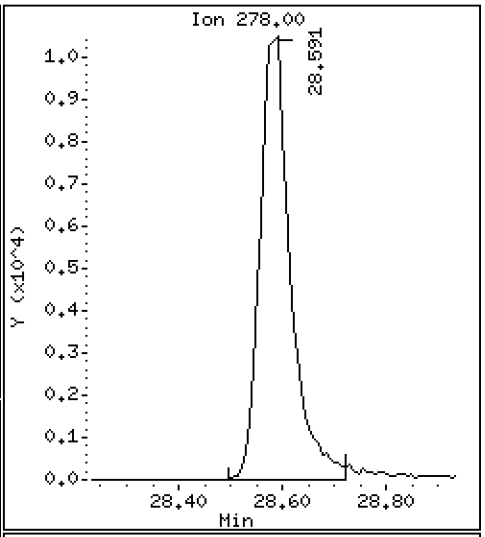
Column phase: ZB-5msi

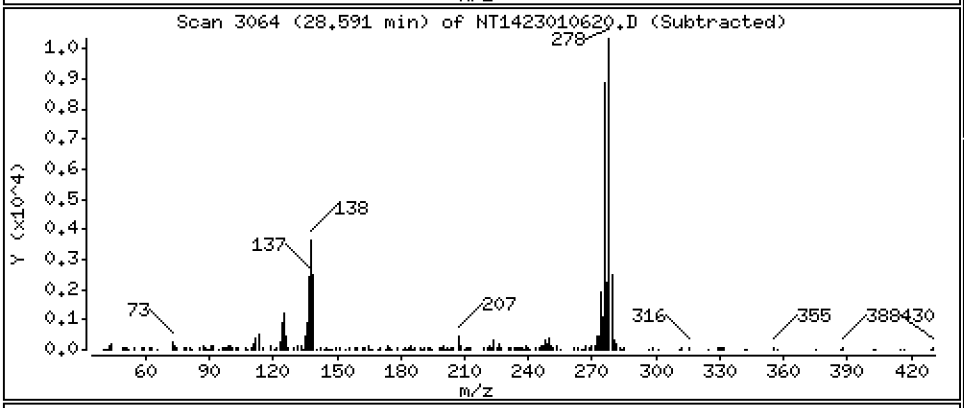
Column diameter: 0.25

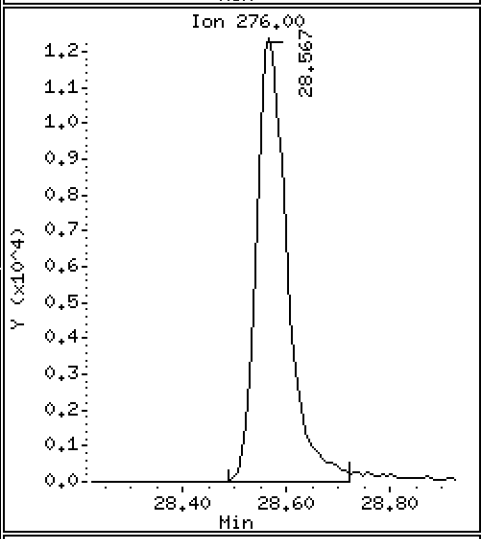
79 Dibenzo(a,h)anthracene

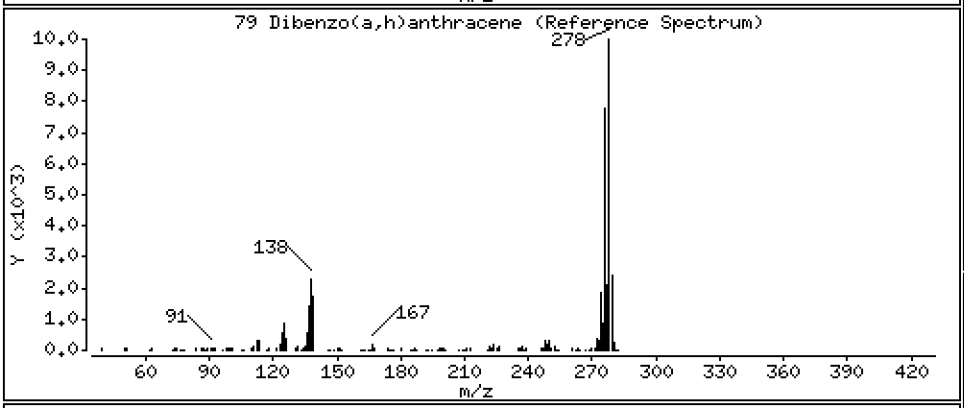
Concentration: 0.4663 ug/mL

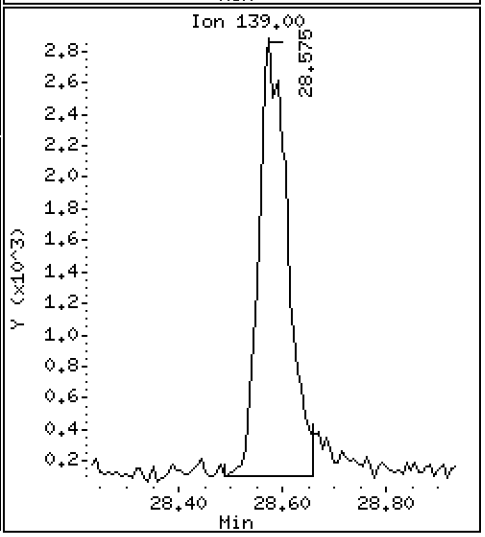


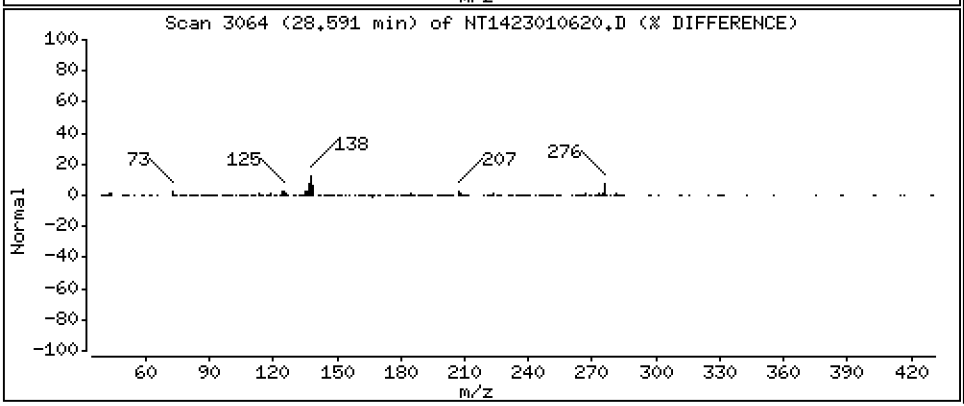












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

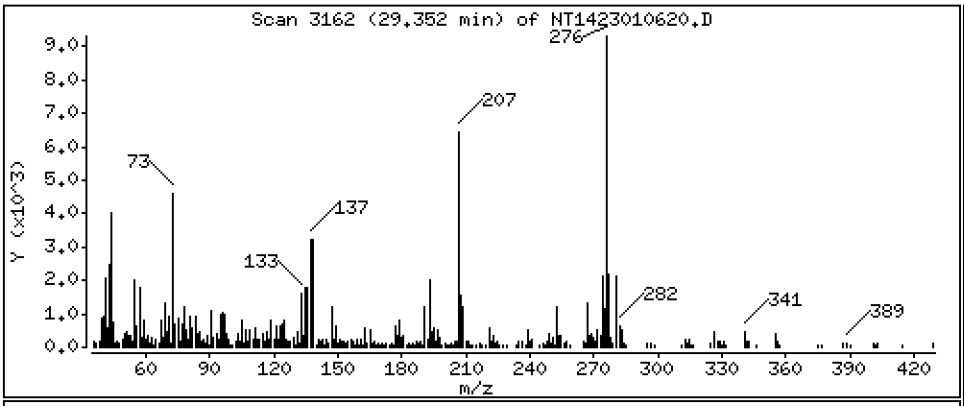
Operator: VTS

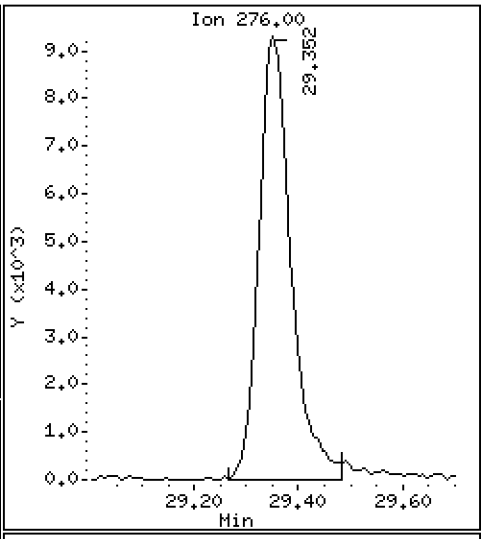
Column phase: ZB-5msi

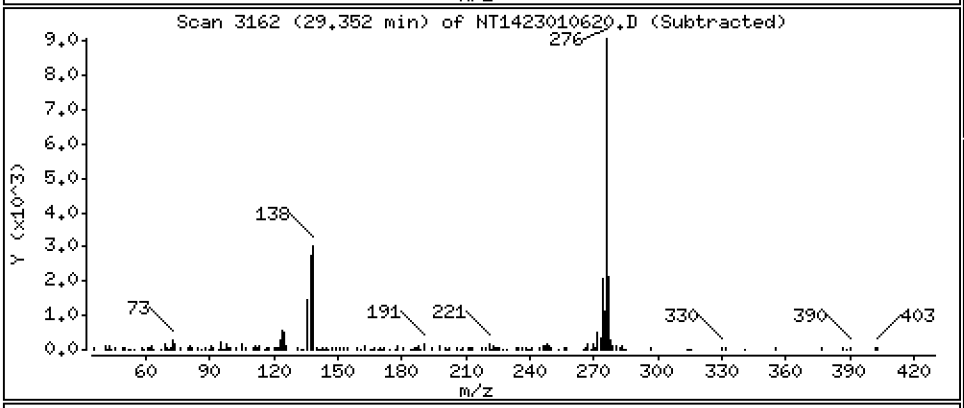
Column diameter: 0.25

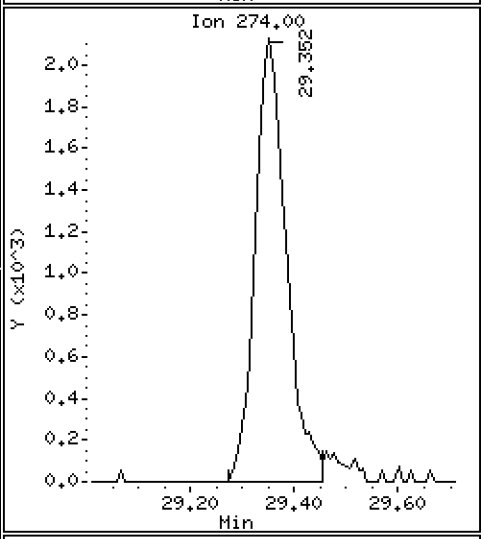
80 Benzo(g,h,i)perylene

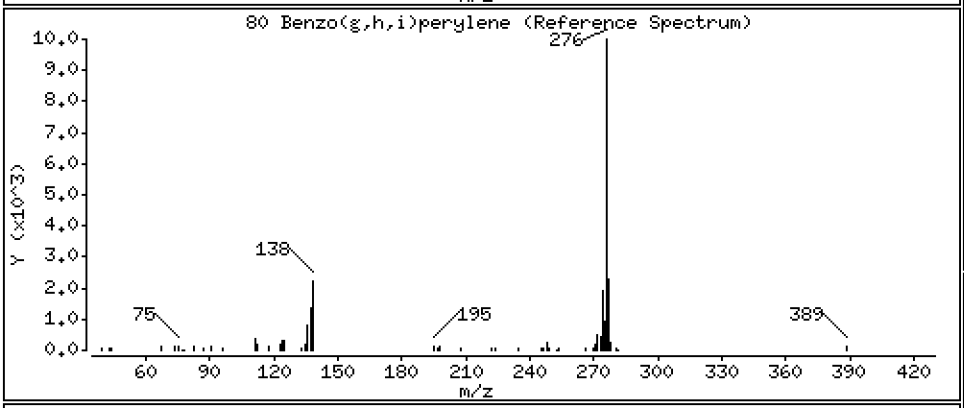
Concentration: 0.4438 ug/mL

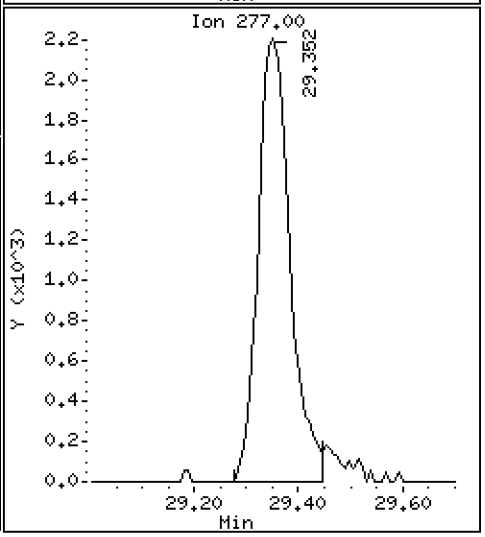


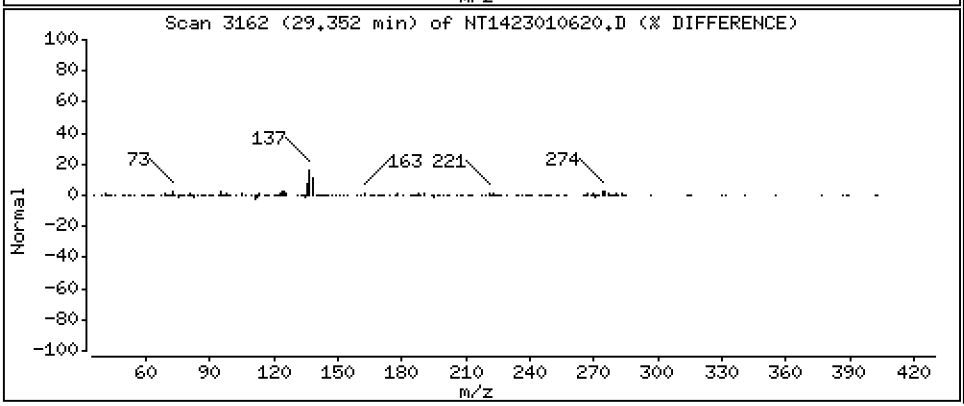












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

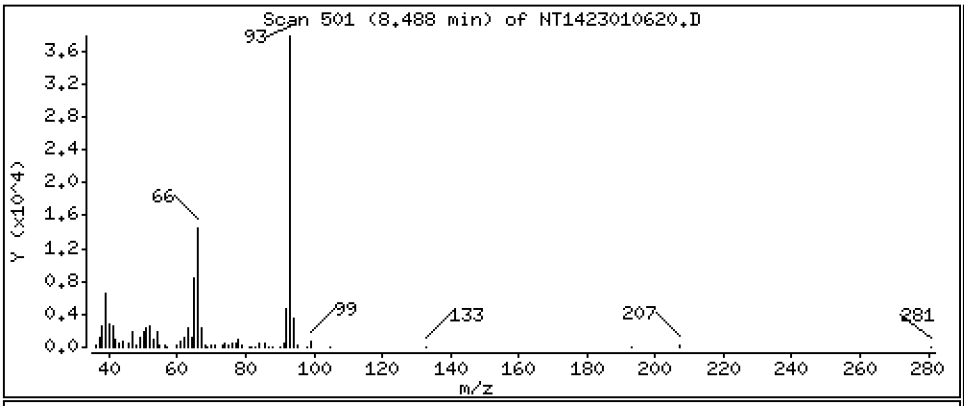
Operator: VTS

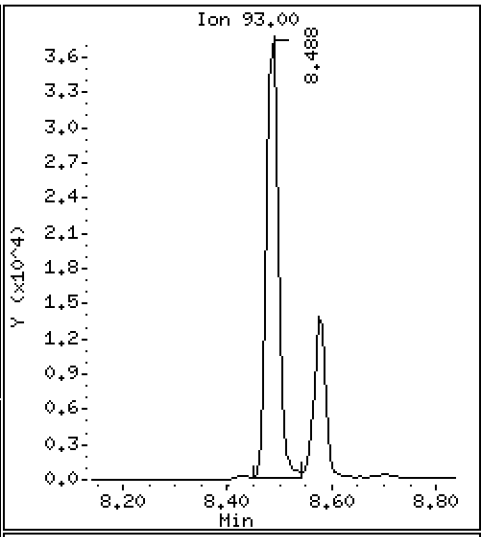
Column phase: ZB-5msi

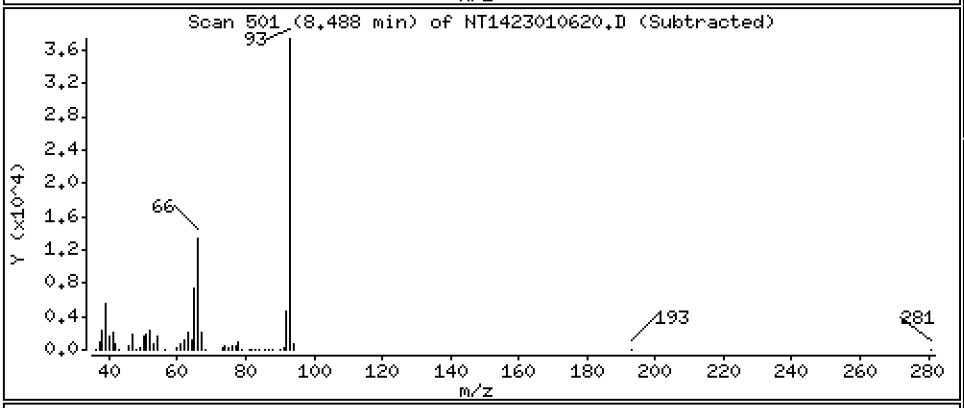
Column diameter: 0.25

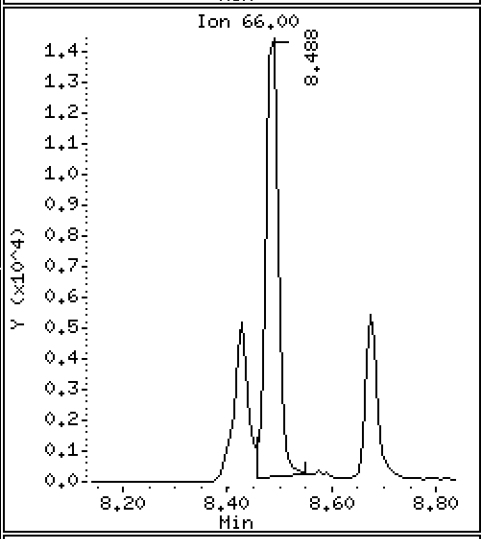
91 Aniline

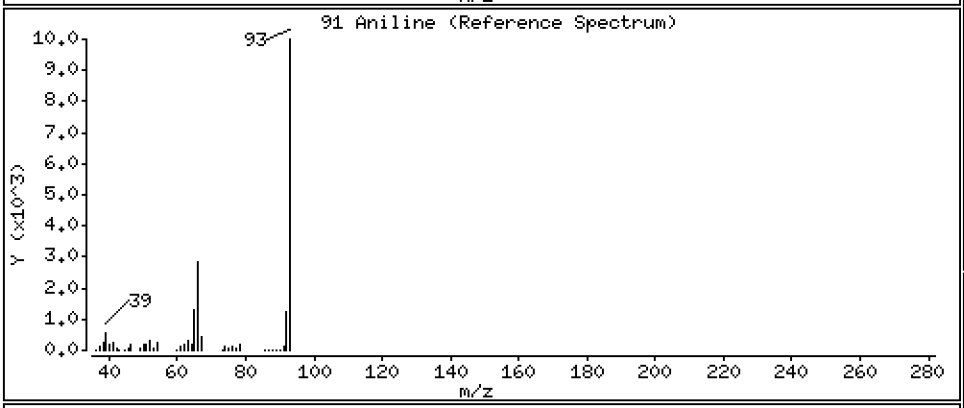
Concentration: 0.8863 ug/mL

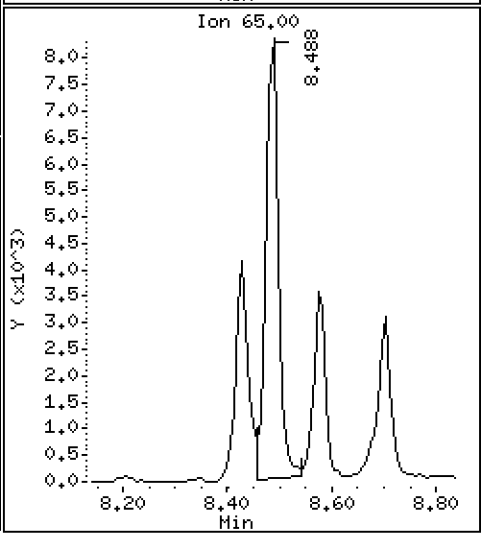


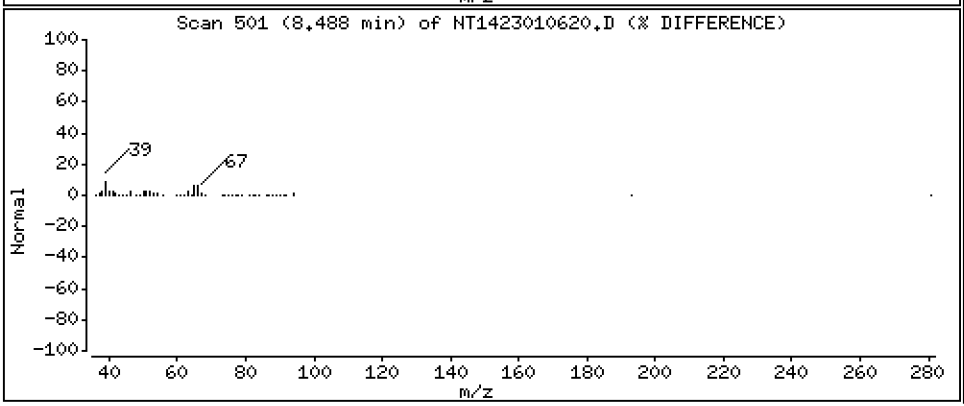












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

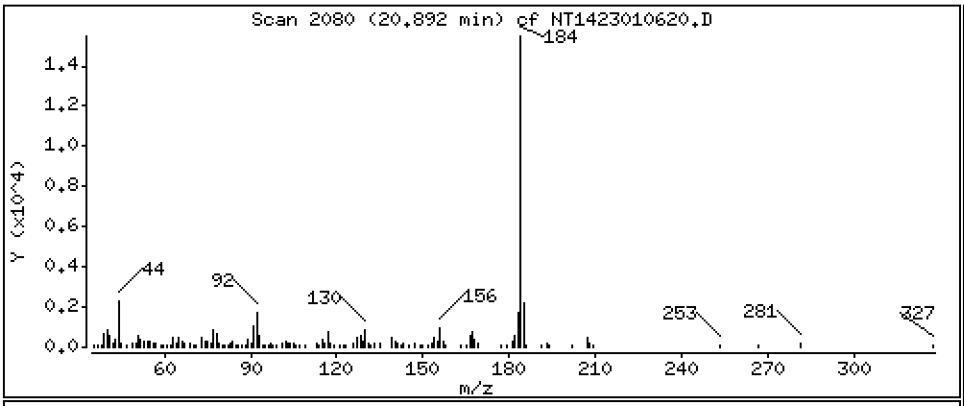
Operator: VTS

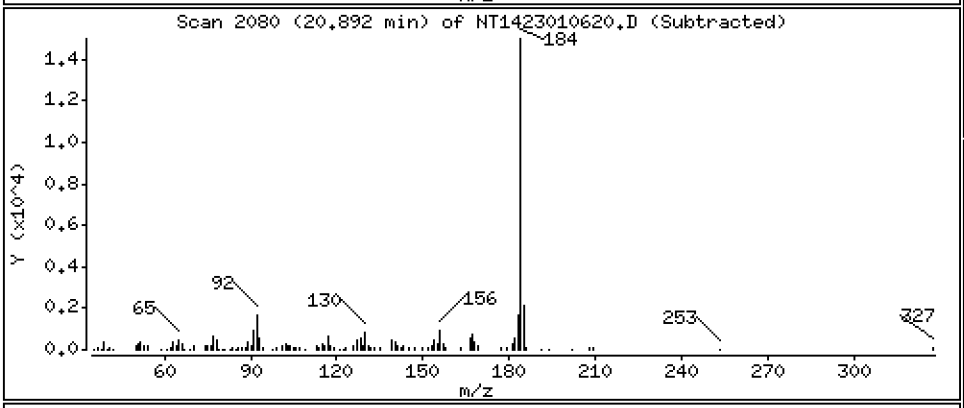
Column phase: ZB-5msi

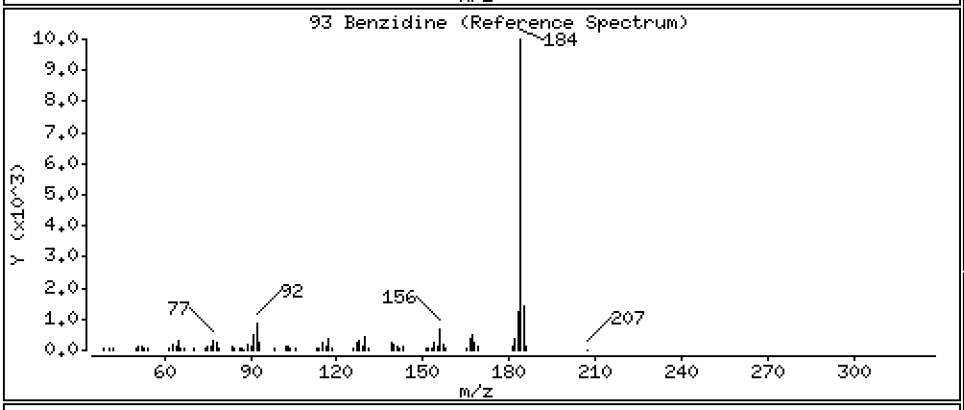
Column diameter: 0.25

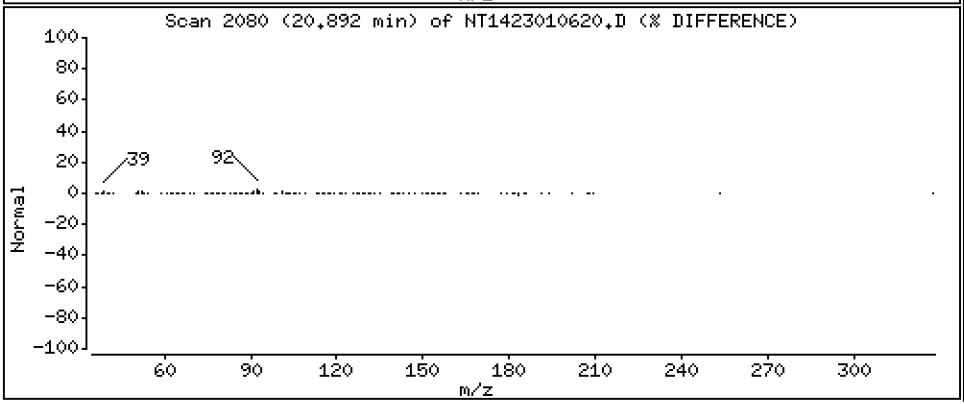
93 Benzidine

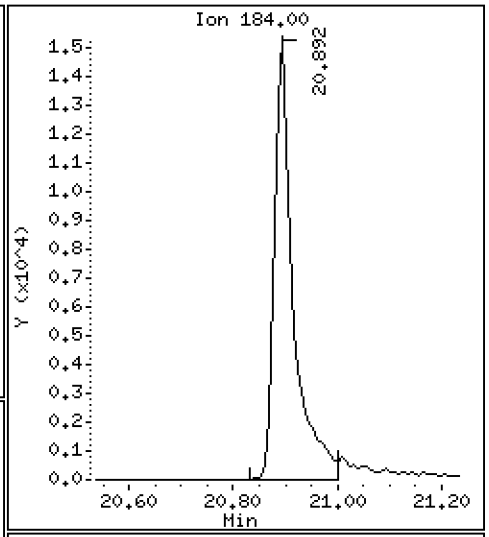
Concentration: 0.9052 ug/mL

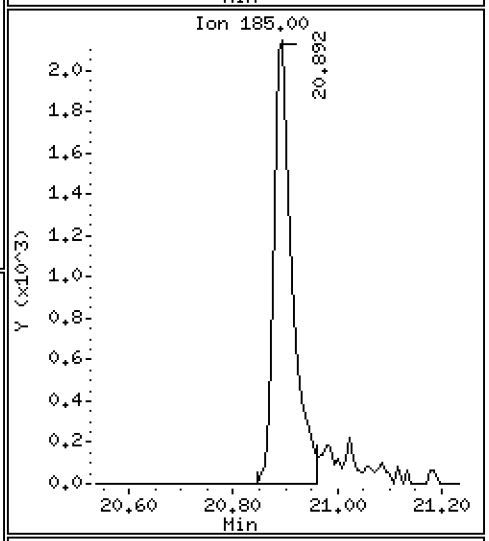


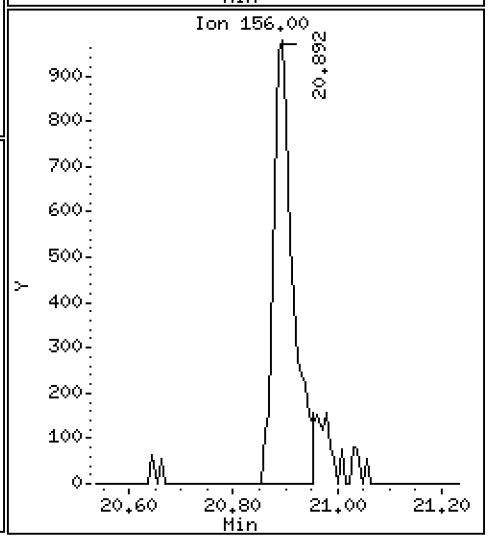












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

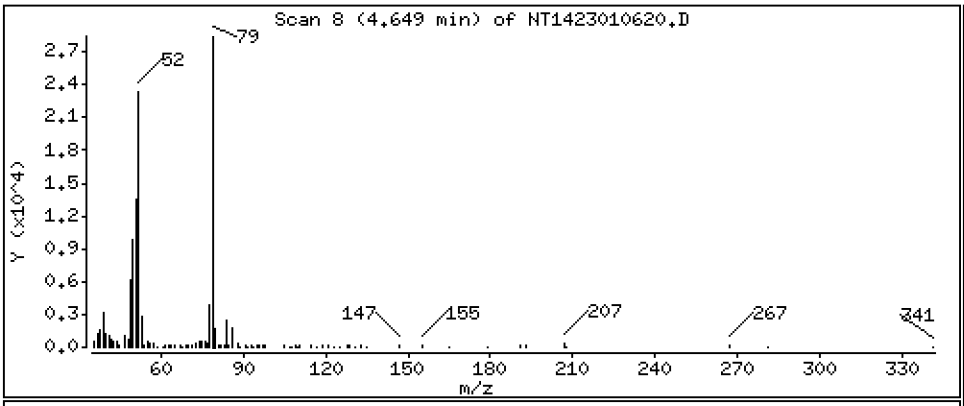
Operator: VTS

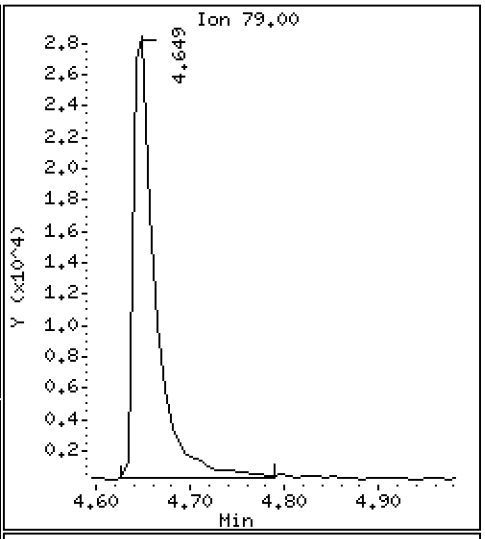
Column phase: ZB-5msi

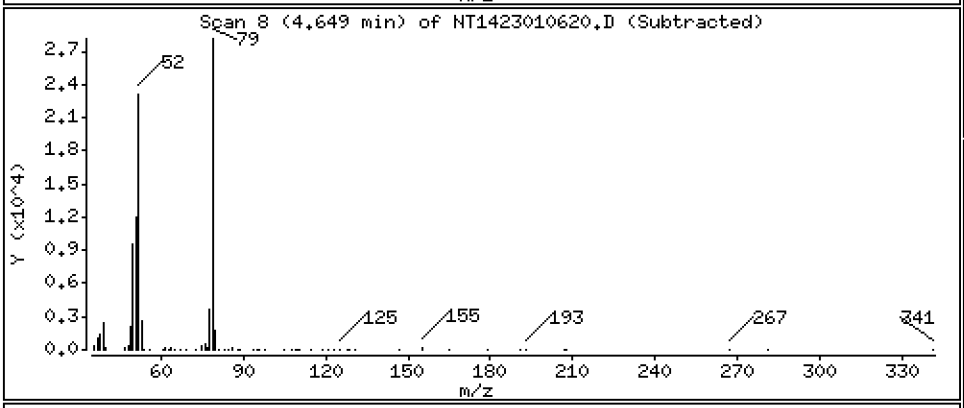
Column diameter: 0.25

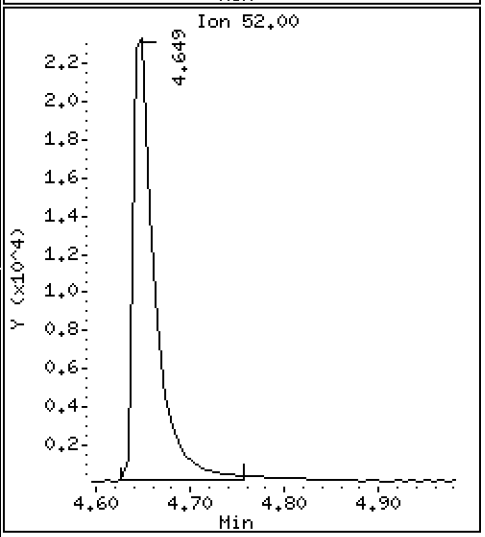
103 Pyridine

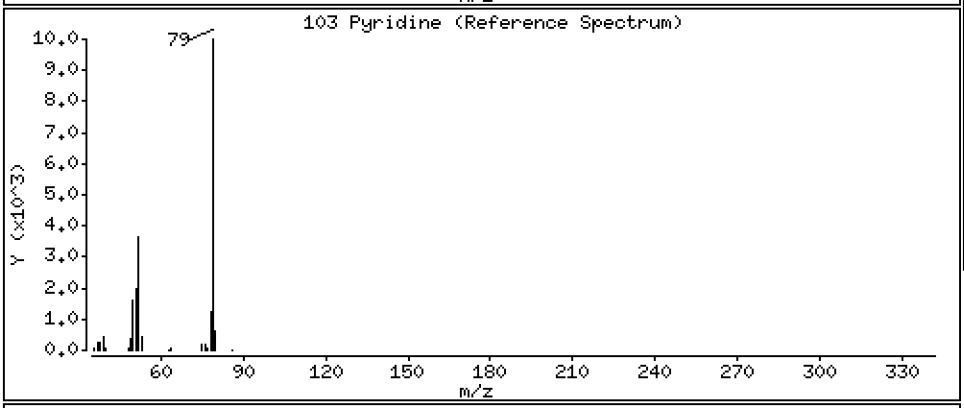
Concentration: 0.4671 ug/mL

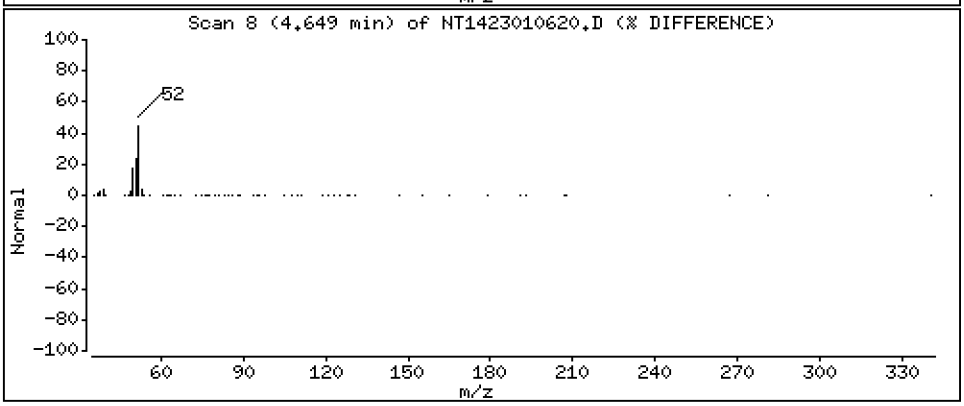












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

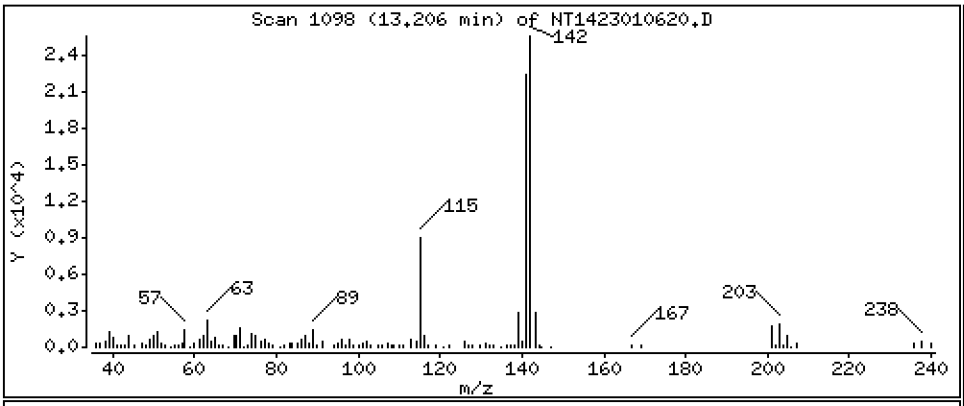
Operator: VTS

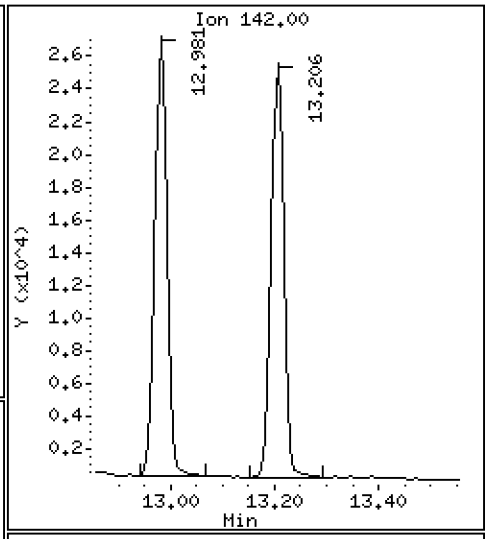
Column phase: ZB-5msi

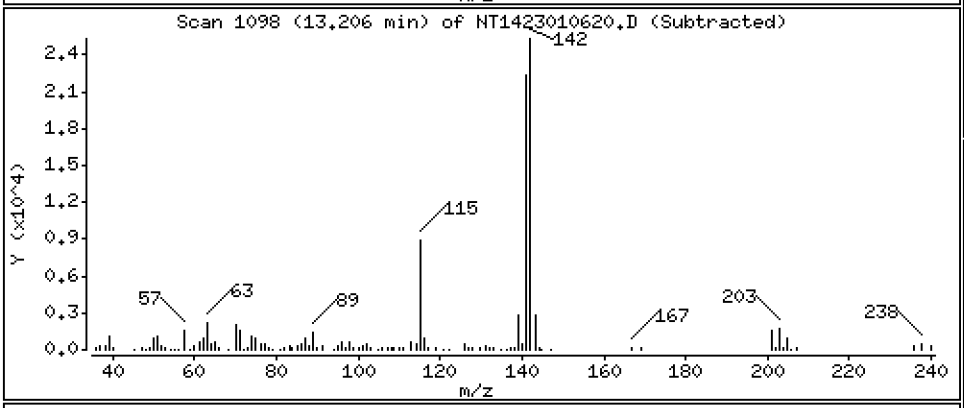
Column diameter: 0.25

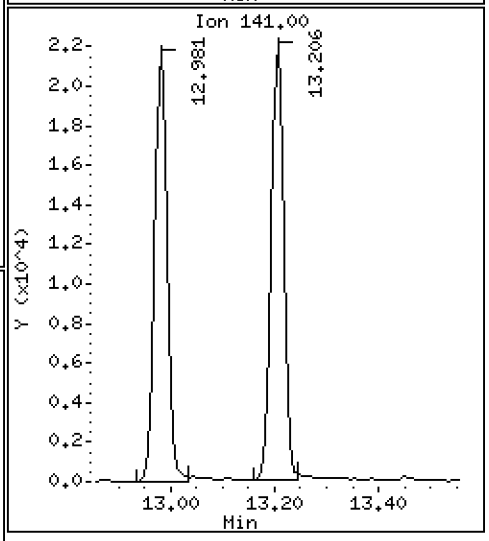
105 1-methylnaphthalene

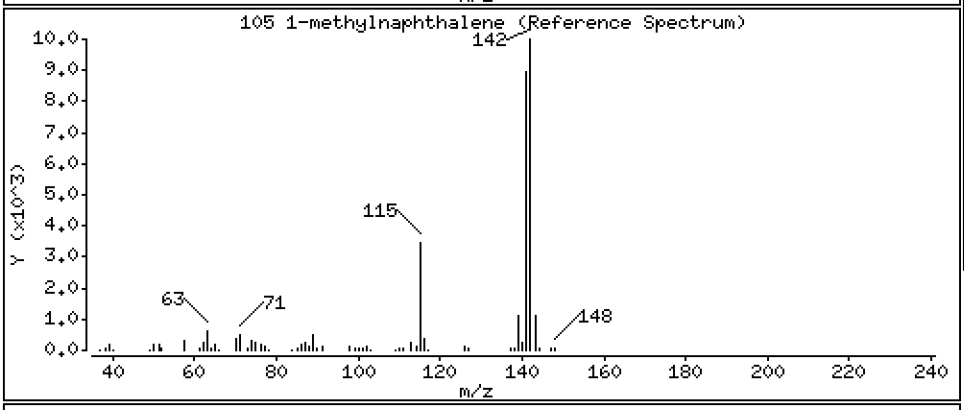
Concentration: 0.4456 ug/mL

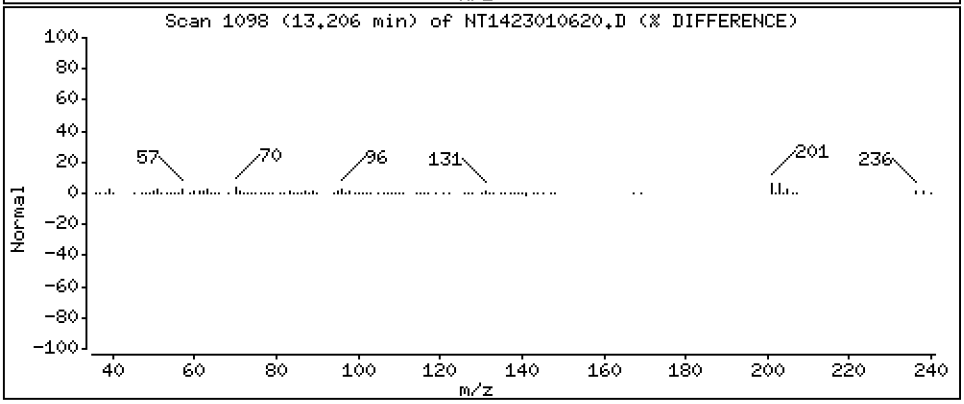












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

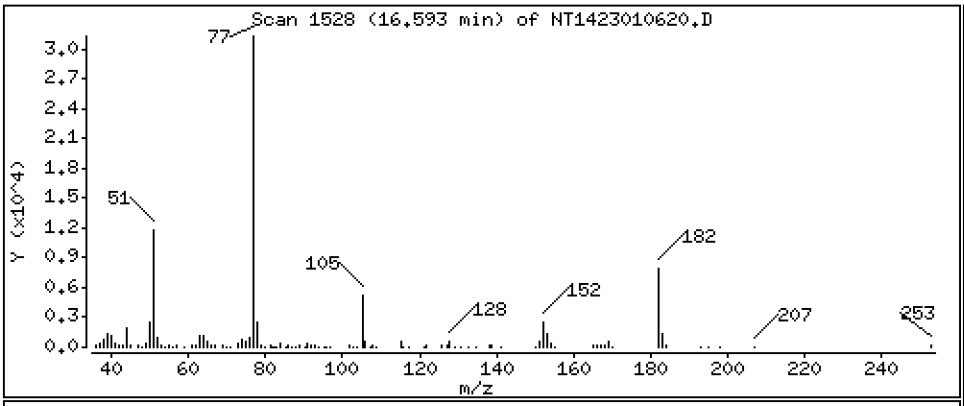
Operator: VTS

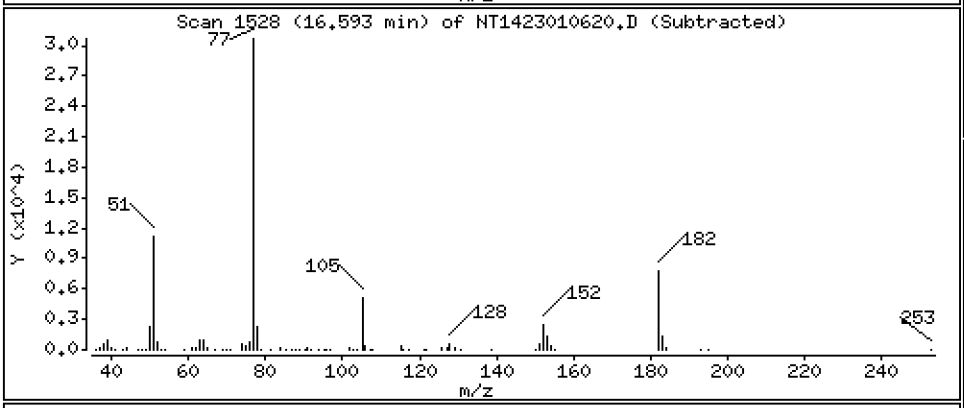
Column phase: ZB-5msi

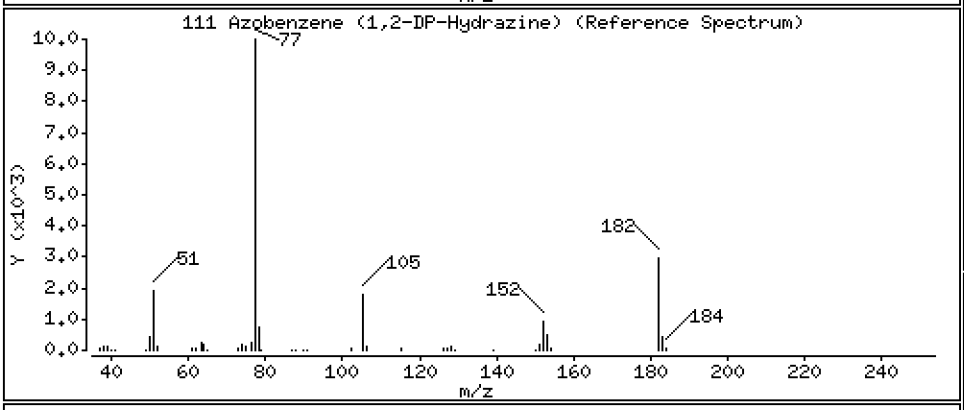
Column diameter: 0.25

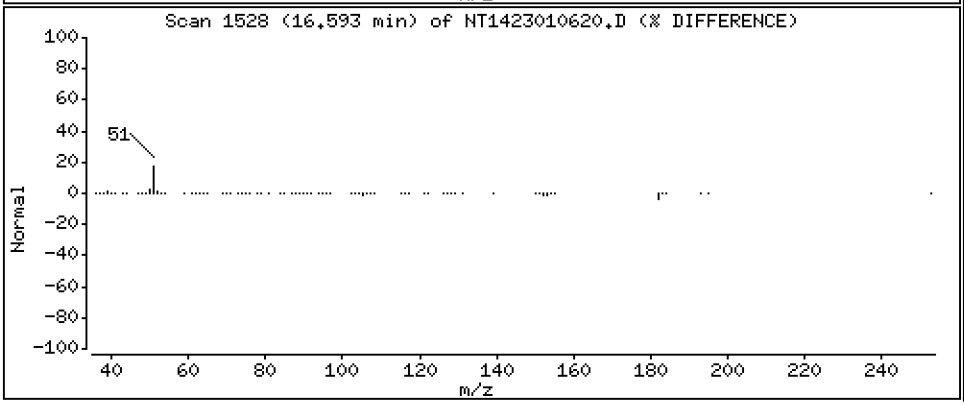
111 Azobenzene (1,2-DP-Hydrazine)

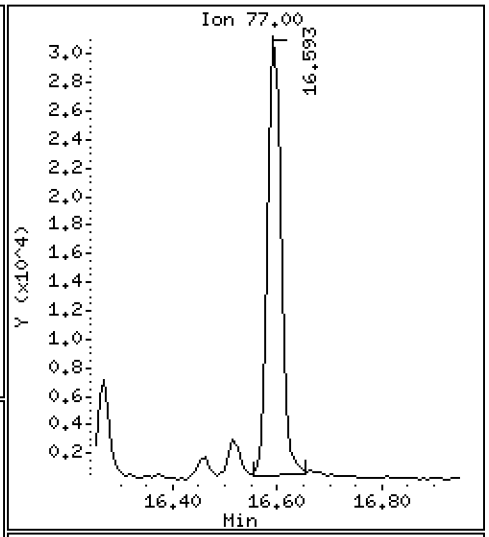
Concentration: 0.5383 ug/mL

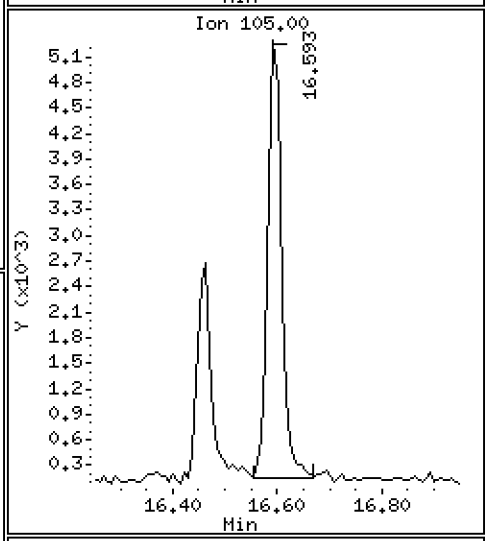


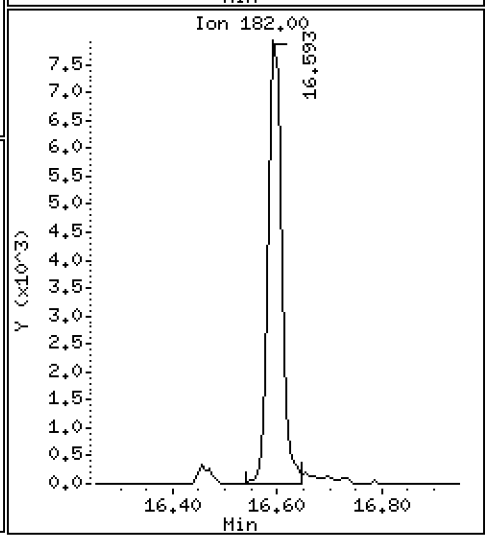












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

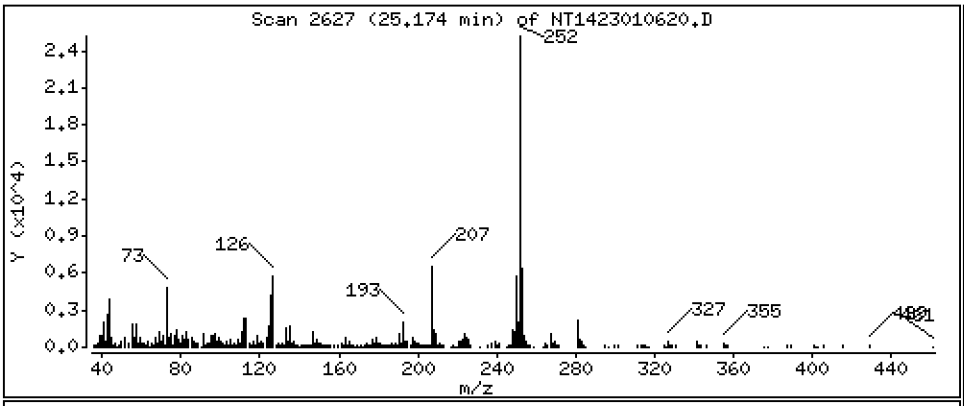
Operator: VTS

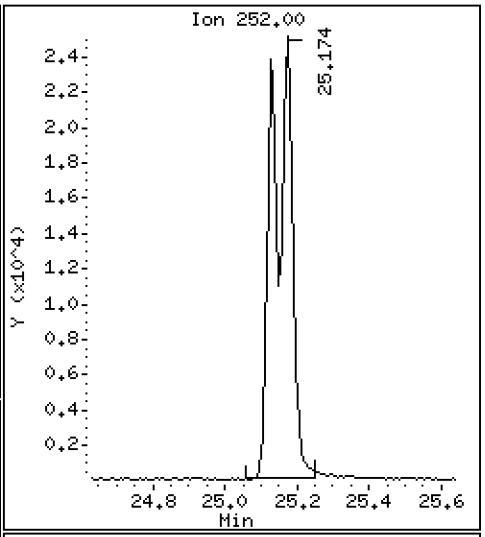
Column phase: ZB-5msi

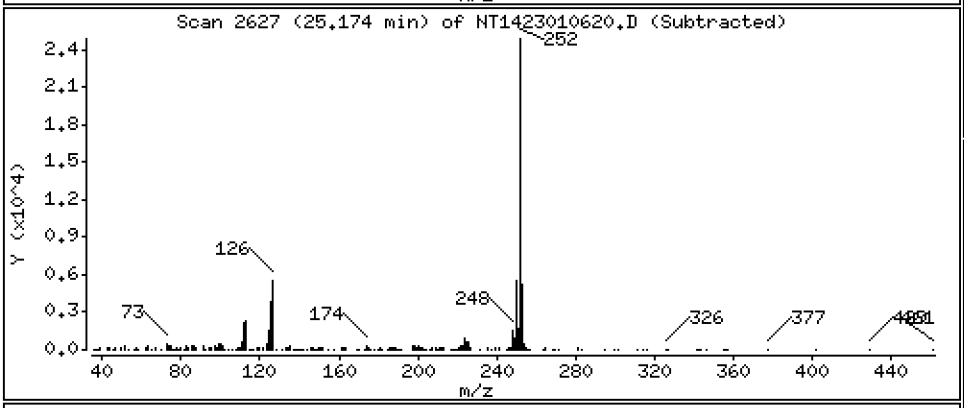
Column diameter: 0.25

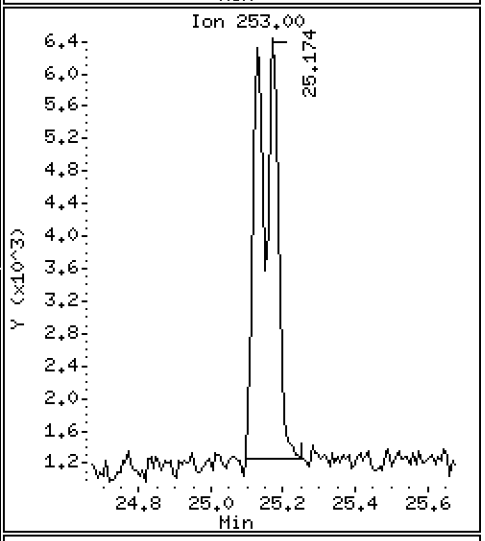
187 Total Benzofluoranthenes

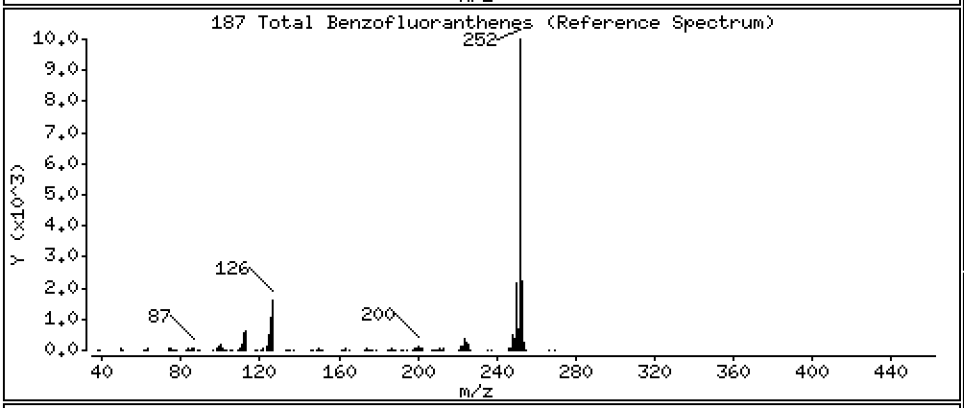
Concentration: 0.8641 ug/mL

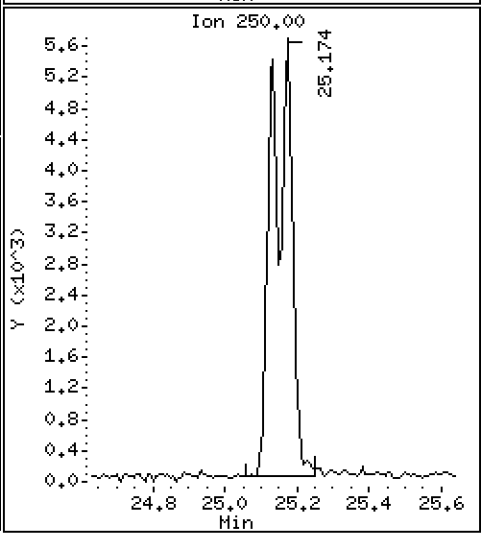


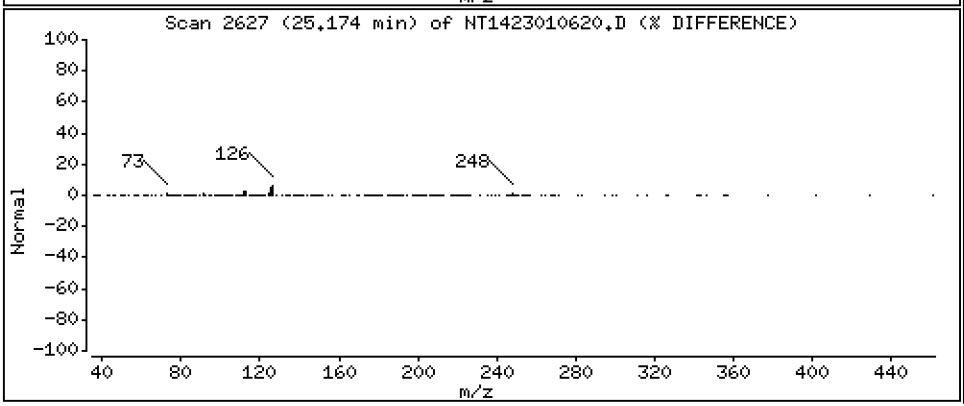












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

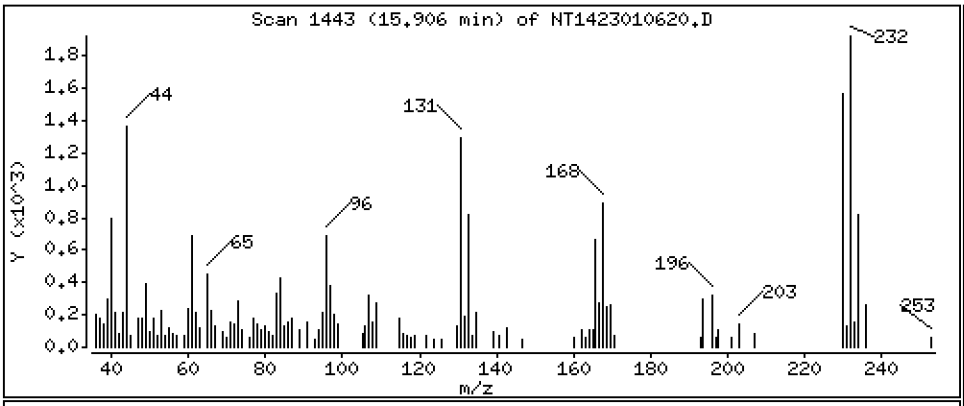
Operator: VTS

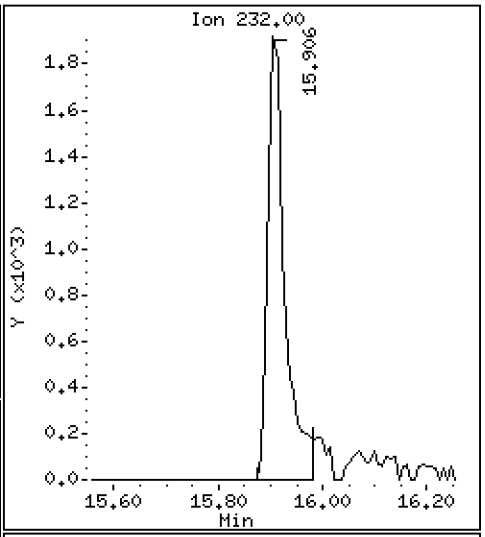
Column phase: ZB-5msi

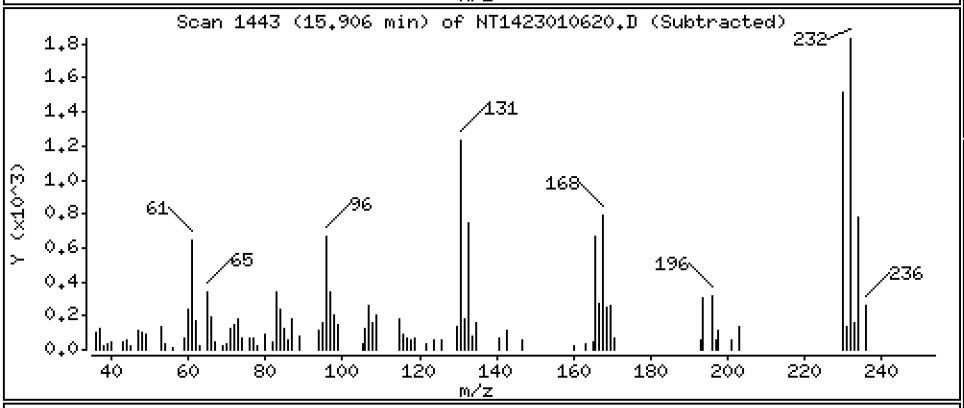
Column diameter: 0.25

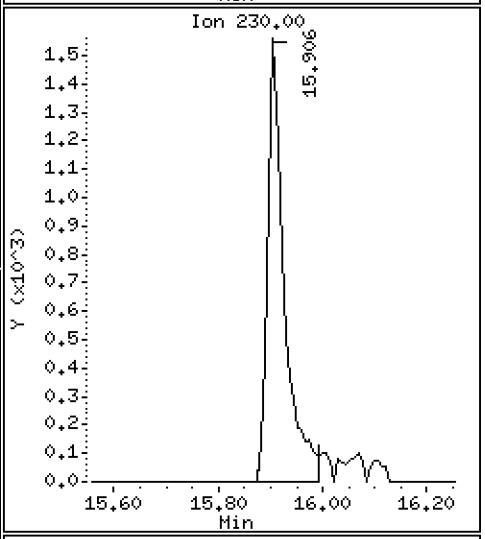
120 2,3,4,6-Tetrachlorophenol

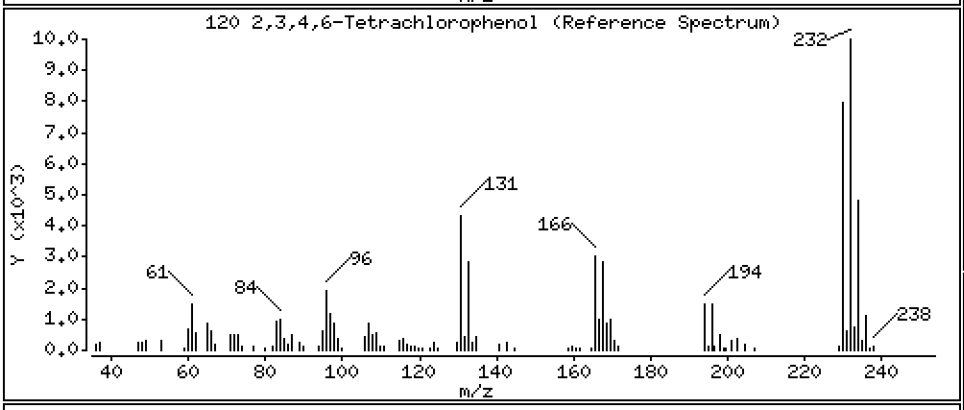
Concentration: 0.2279 ug/mL

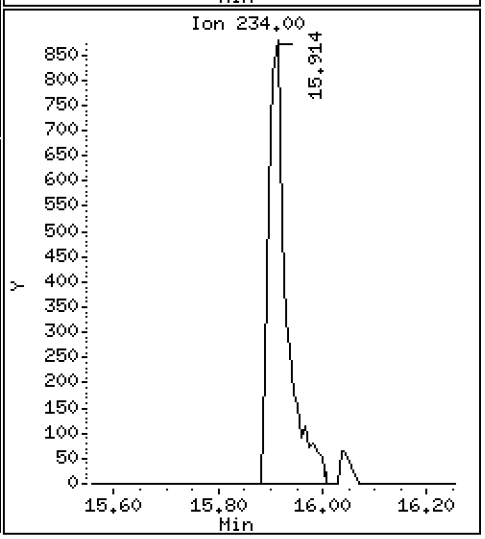


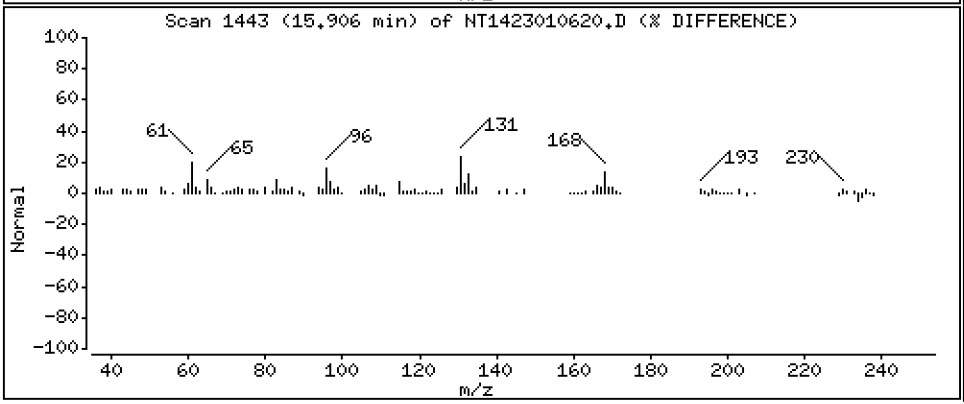












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010620.D
Lab Smp Id: SLA0068-LCV2
Inj Date : 06-JAN-2023 23:03 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-LCV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	29640	0.63731	0.6373
$	2 Phenol-d5	99	8.403	8.403	(0.930)	33186	0.57740	0.5774
	3 Phenol	94	8.426	8.426	(0.932)	23676	0.36253	0.3625
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	31074	0.64375	0.6438
	4 Bis(2-Chloroethyl)ether	93	8.573	8.580	(0.949)	21388	0.47541	0.4754
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	22267	0.42003	0.4200
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	26475	0.47097	0.4710
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	145168	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	24625	0.46240	0.4624
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	15089	0.45736	0.4574
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	24098	0.46140	0.4614
	11 Benzyl alcohol	108	9.549	9.308	(1.057)	18219	0.62665	0.6266
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	6964	0.45991	0.4599(M)
	13 2-Methylphenol	108	9.549	9.549	(1.057)	18671	0.39344	0.3934
	17 Hexachloroethane	117	10.023	10.022	(1.109)	9108	0.46501	0.4650
	16 N-Nitroso-di-n-propylamine	70	9.867	9.867	(1.092)	14903	0.51552	0.5155
	15 4-Methylphenol	108	9.821	9.813	(1.087)	16520	0.32999	0.3300
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	22117	0.49232	0.4923
	19 Nitrobenzene	77	10.170	10.170	(0.882)	21966	0.49233	0.4923
	20 Isophorone	82	10.620	10.620	(0.921)	27545	0.48441	0.4844
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	11746	0.43021	0.4302
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	33304	0.71521	0.7152
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	20464	0.46261	0.4626
	24 Benzoic acid	105	10.985	11.062	(0.952)	2945	0.10392	0.1039
	25 2,4-Dichlorophenol	162	11.272	11.271	(0.977)	24339	0.62008	0.6201
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	23266	0.54819	0.5482
*	27 Naphthalene-d8	136	11.535	11.534	(1.000)	532003	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	61481	0.46959	0.4696
	29 4-Chloroaniline	127	11.704	11.712	(1.015)	43723	0.80980	0.8098
	30 Hexachlorobutadiene	225	11.952	11.951	(1.036)	12098	0.57451	0.5745
	31 4-Chloro-3-methylphenol	107	12.702	12.686	(1.101)	21619	0.58365	0.5836
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	41365	0.43072	0.4307
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	2097	0.10435	0.1043

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	14103	0.63556	0.6356
35	2,4,5-Trichlorophenol	196	13.693	13.693	(0.903)	13410	0.52362	0.5236
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	41058	0.45933	0.4593
37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	35653	0.46885	0.4689
38	2-Nitroaniline	65	14.235	14.234	(0.938)	17514	0.87604	0.8760
39	Dimethylphthalate	163	14.668	14.668	(0.967)	36354	0.48488	0.4849
40	Acenaphthylene	152	14.854	14.853	(0.979)	53141	0.45832	0.4583
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	14034	0.82942	0.8294
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	265857	4.00000	
43	3-Nitroaniline	138	15.094	15.093	(0.995)	16826	0.81817	0.8182
44	Acenaphthene	153	15.233	15.240	(1.004)	33512	0.46599	0.4660
45	2,4-Dinitrophenol	184	15.318	15.302	(1.010)	713	0.04962	0.04962
46	Dibenzofuran	168	15.565	15.565	(1.026)	48807	0.45257	0.4526
47	4-Nitrophenol	109	15.472	15.433	(1.020)	2553	0.25941	0.2594
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	17452	0.75175	0.7518
50	Diethylphthalate	149	16.130	16.137	(1.063)	54021	0.53010	0.5301
49	Fluorene	166	16.276	16.284	(1.073)	53603	0.46723	0.4672
51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	23619	0.42051	0.4205
52	4-Nitroaniline	138	16.361	16.361	(1.078)	18687	0.75439	0.7544
53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	9488	0.50460	0.5046
54	N-Nitrosodiphenylamine	169	16.515	16.523	(0.907)	34148	0.44445	0.4445
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	5687	0.45603	0.4560
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	12575	0.43223	0.4322
57	Hexachlorobenzene	284	17.596	17.595	(0.966)	14504	0.45429	0.4543
58	Pentachlorophenol	266	17.960	17.952	(0.986)	1069	0.07732	0.07732
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	447747	4.00000	
60	Phenanthrene	178	18.261	18.269	(1.003)	52744	0.45180	0.4518
61	Anthracene	178	18.354	18.362	(1.008)	51350	0.46076	0.4608
62	Carbazole	167	18.687	18.687	(1.026)	48402	0.44925	0.4493
63	Di-n-butylphthalate	149	19.484	19.491	(1.070)	58515	0.48004	0.4800
64	Fluoranthene	202	20.652	20.652	(0.888)	52735	0.47783	0.4778
65	Pyrene	202	21.078	21.077	(0.906)	55409	0.47751	0.4775
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	38337	0.46595	0.4659
67	Butylbenzylphthalate	149	22.285	22.285	(0.958)	24890	0.56799	0.5680
68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	47963	0.46193	0.4619
* 69	Chrysene-d12	240	23.269	23.276	(1.000)	342757	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	46709	1.46952	1.470
71	Chrysene	228	23.315	23.315	(1.002)	45006	0.45888	0.4589
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	34090	0.50575	0.5058
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	606933	4.00000	
73	Di-n-octylphthalate	149	24.306	24.314	(1.000)	68846	0.47255	0.4726
74	Benzo(b)fluoranthene	252	25.127	25.134	(0.970)	46308	0.40565	0.4056
75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	53847	0.46344	0.4634
76	Benzo(a)pyrene	252	25.785	25.785	(0.996)	45450	0.47893	0.4789
* 77	Perylene-d12	264	25.901	25.901	(1.000)	363248	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.567	28.574	(1.103)	51432	0.47675	0.4768
79	Dibenzo(a,h)anthracene	278	28.590	28.582	(1.104)	42743	0.46625	0.4663
80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	40108	0.44380	0.4438
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.488	8.487	(0.939)	56358	0.88628	0.8863
93	Benzidine	184	20.892	20.884	(0.898)	38087	0.90521	0.9052
103	Pyridine	79	4.649	4.633	(0.514)	47538	0.46707	0.4671
105	1-methylnaphthalene	142	13.205	13.205	(1.145)	41120	0.44563	0.4456
111	Azobenzene (1,2-DP-Hydrazine)	77	16.592	16.600	(1.094)	53149	0.53834	0.5383

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.173	25.134	(0.972)	95373	0.86415	0.8641
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	4269	0.22792	0.2279

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010620.D
Lab Smp Id: SLA0068-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	145168	27.32
27 Naphthalene-d8	420653	210327	841306	532003	26.47
42 Acenaphthene-d10	216802	108401	433604	265857	22.63
59 Phenanthrene-d10	366121	183061	732242	447747	22.29
69 Chrysene-d12	276883	138442	553766	342757	23.79
134 Di-n-octylphthala	540641	270321	1081282	606933	12.26
77 Perylene-d12	308305	154153	616610	363248	17.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.28	22.78	23.78	23.27	-0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010620.D

Lab ID: SLA0068-LCV2
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 23:03

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.057	1.030	0.0266	Benzyl alcohol
0.952	0.959	-0.0067	Benzoic acid

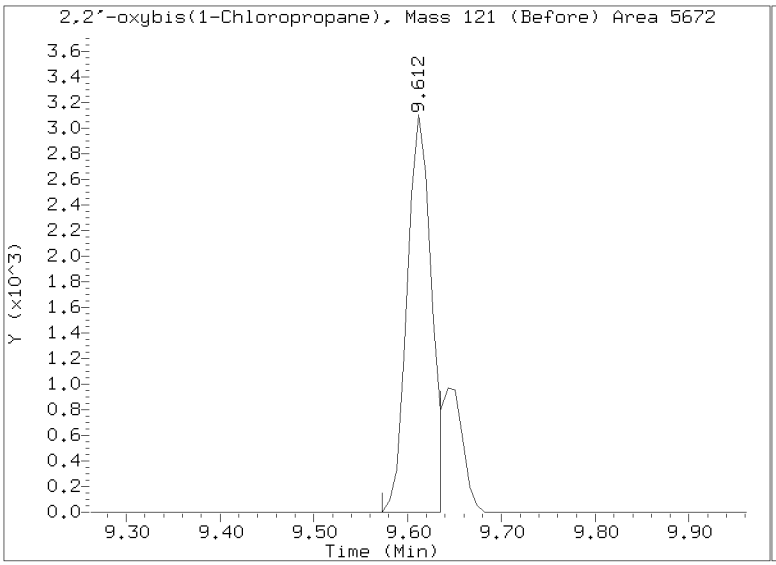
RRT check based on Ccal File: NT1423010619.D

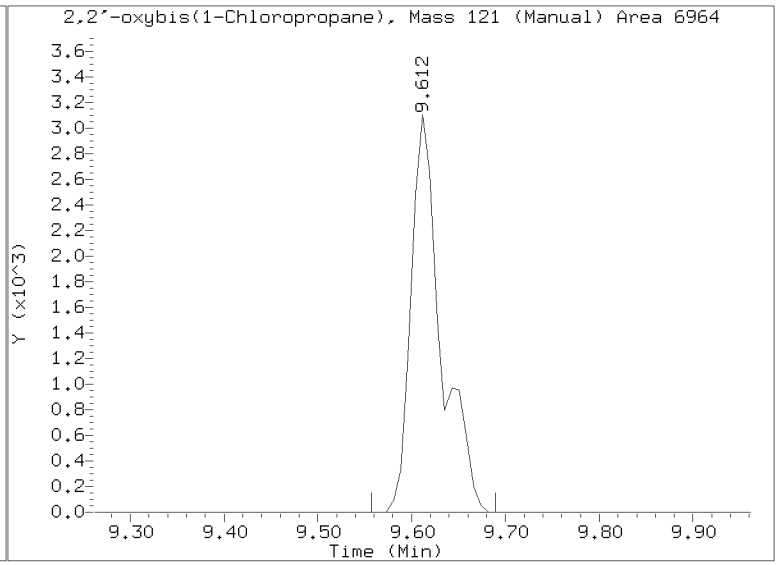
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010620.D
Injection Date: 06-JAN-2023 23:03
Lab ID:SLA0068-LCV2 Client ID:
Report Date: 01/12/2023 08:13





Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.4	1.7995200	1.5659790		-13.0	+/-20	
bis(2-chloroethyl) ether	A	5.0000	5.1	1.2396270	1.2632950		1.9	+/-20	
2-Chlorophenol	A	5.0000	4.5	1.4607190	1.3032960		-10.8	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.8	1.5489360	1.4727770		-4.9	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.8	1.4674070	1.4007540		-4.5	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.8	1.4391100	1.3720310		-4.7	+/-20	
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7978689		-0.4	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.2	0.4172325	0.4333324		3.9	+/-20	
2-Methylphenol	A	5.0000	3.9	1.3076140	1.0270		-21.5	+/-20	*
Hexachloroethane	A	5.0000	4.9	0.5396966	0.5320521		-1.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8170159		2.6	+/-20	
4-Methylphenol	A	5.0000	4.1	1.3794240	1.1372560		-17.6	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3273825		-2.4	+/-20	
Isophorone	A	5.0000	6.9	0.4275424	0.5939464		38.9	+/-20	*
2-Nitrophenol	A	5.0000	4.6	0.2064997	0.1942317		-8.9	+/-20	
2,4-Dimethylphenol	A	5.0000	3.7	0.3501131	0.2564747		-26.7	+/-20	*
Bis(2-Chloroethoxy)methane	A	5.0000	5.7	0.3325989	0.3771945		13.4	+/-20	
2,4-Dichlorophenol	A	5.0000	4.4	0.2951237	0.2590228		-12.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.6	0.3191088	0.2919389		-8.5	+/-20	
Naphthalene	A	5.0000	4.8	0.9843833	0.9472936		-3.8	+/-20	
Benzoic acid	A	10.000	6.4	0.1508906	0.1379528		-36.2	+/-20	*
4-Chloroaniline	A	5.0000	3.8	0.4059568	0.3124698		-23.0	+/-20	*
Hexachlorobutadiene	A	5.0000	4.8	0.1583286	0.1527172		-3.5	+/-20	
4-Chloro-3-Methylphenol	A	5.0000	4.5	0.2785027	0.2518784		-9.6	+/-20	
2-Methylnaphthalene	A	5.0000	4.6	0.7220739	0.6665809		-7.7	+/-20	
Hexachlorocyclopentadiene	A	5.0000	5.1	0.3023695	0.3072422		1.6	+/-20	
2,4,6-Trichlorophenol	A	5.0000	4.4	0.3338641	0.2942534		-11.9	+/-20	
2,4,5-Trichlorophenol	A	5.0000	4.3	0.3853234	0.3296455		-14.4	+/-20	
2-Chloronaphthalene	A	5.0000	4.8	1.1441150	1.0877620		-4.9	+/-20	
2-Nitroaniline	A	5.0000	5.0	0.3007956	0.3033642		0.9	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7443980		-0.007	+/-20	
Dimethylphthalate	A	5.0000	5.0	1.1280520	1.1331460		0.5	+/-20	
2,6-Dinitrotoluene	A	5.0000	5.1	0.2545771	0.2604186		2.3	+/-20	
Acenaphthene	A	5.0000	4.9	1.0820160	1.0637410		-1.7	+/-20	
3-Nitroaniline	A	5.0000	5.1	0.3094189	0.3148450		1.8	+/-20	
2,4-Dinitrophenol	A	5.0000	2.0	0.1831718	0.0884337		-59.3	+/-20	*
Dibenzofuran	A	5.0000	4.7	1.6225950	1.5282140		-5.8	+/-20	
4-Nitrophenol	A	5.0000	4.1	0.1384031	0.1217896		-18.5	+/-20	
2,4-Dinitrotoluene	A	5.0000	5.0	0.3492859	0.3461866		-0.9	+/-20	
Fluorene	A	5.0000	5.2	1.7261350	1.8056560		4.6	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	5.1	0.8450792	0.8609263		1.9	+/-20	
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6416350		7.1	+/-20	
4-Nitroaniline	A	5.0000	4.7	0.3413732	0.3562087		-5.3	+/-20	
4,6-Dinitro-2-methylphenol	A	5.0000	4.1	0.1530278	0.1381873		-18.4	+/-20	
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6554505		-4.5	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.9	0.2599074	0.2567038		-1.2	+/-20	
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2596992		-8.9	+/-20	
Pentachlorophenol	A	5.0000	3.8	0.1128364	0.0955023		-24.1	+/-20	*
Phenanthrene	A	5.0000	4.8	1.0429190	0.9943498		-4.7	+/-20	
Anthracene	A	5.0000	4.4	0.9956202	0.8707411		-12.5	+/-20	
Carbazole	A	5.0000	4.6	0.9624945	0.8894363		-7.6	+/-20	
Di-n-Butylphthalate	A	5.0000	4.9	1.0394700	1.1158650		-1.4	+/-20	
Fluoranthene	A	5.0000	5.1	1.2879410	1.3111240		1.8	+/-20	
Pyrene	A	5.0000	5.0	1.3541610	1.3601200		0.4	+/-20	
Butylbenzylphthalate	A	5.0000	5.0	0.4650792	0.5203752		0.09	+/-20	
Benzo(a)anthracene	A	5.0000	4.9	1.2117210	1.1850410		-2.2	+/-20	
3,3'-Dichlorobenzidine	A	10.000	9.2	0.3709370	0.3415118		-7.9	+/-20	
Chrysene	A	5.0000	4.8	1.1445730	1.0903960		-4.7	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.9	0.4442323	0.5241207		18.0	+/-20	
Di-n-Octylphthalate	A	5.0000	5.1	0.9601702	0.9761882		1.7	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123011.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV1	Injection Time:	13:31
Sequence Name:	SICV1		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	10.0	1.2153330	1.2119120		-0.3	+/-20
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0641750		1.8	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	5.1	1.1879490	1.2184330		2.6	+/-20
Dibenzo(a,h)anthracene	A	5.0000	5.1	1.0094890	1.0270870		1.7	+/-20
Benzo(g,h,i)perylene	A	5.0000	5.0	0.9951726	1.0026110		0.7	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6481720		-6.6	+/-20
2-Fluorophenol	A	7.5000	7.32	1.2814900	1.2501890		-2.4	+/-20
Phenol-d5	A	7.5000	7.40	1.5836890	1.5617500		-1.4	+/-20
2-Chlorophenol-d4	A	7.5000	7.32	1.3300510	1.2977780		-2.4	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.77	0.9090592	0.8665877		-4.7	+/-20
Nitrobenzene-d5	A	5.0000	4.86	0.3377760	0.3284412		-2.8	+/-20
2-Fluorobiphenyl	A	5.0000	4.82	1.3448860	1.2955820		-3.7	+/-20
2,4,6-Tribromophenol	A	7.5000	7.24	0.1844845	0.1880717		-3.5	+/-20
p-Terphenyl-d14	A	5.0000	4.82	0.9601842	0.9248755		-3.7	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Page 1

Date : 30-DEC-2022 13:31

Client ID:

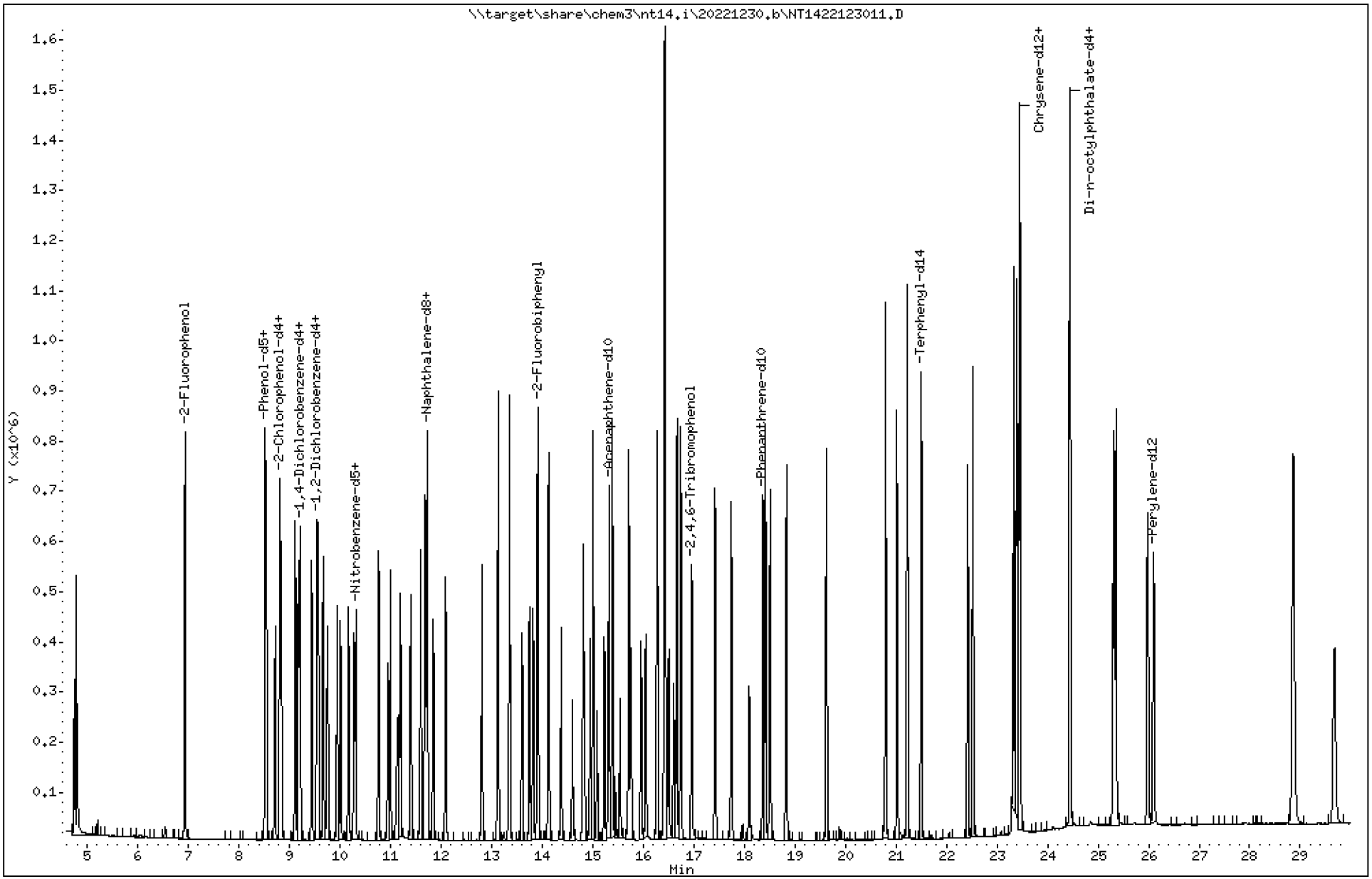
Instrument: nt14.i

Sample Info: SKL0355-SCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2574 of 5449

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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

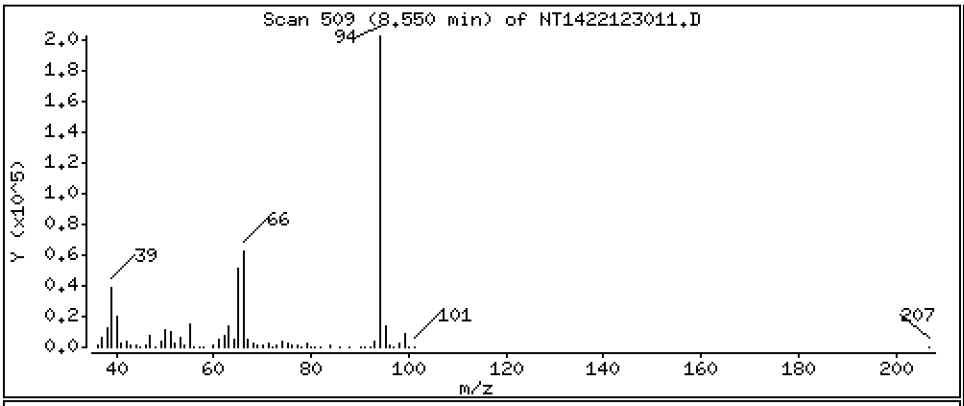
Operator: VTS

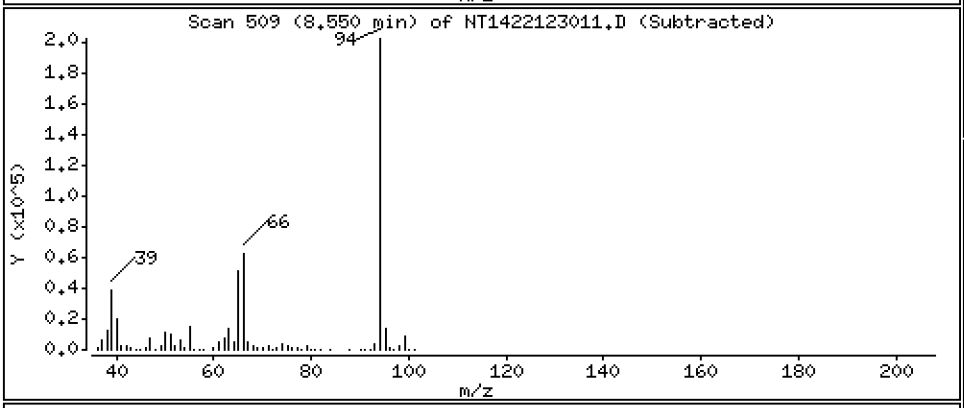
Column phase: ZB-5msi

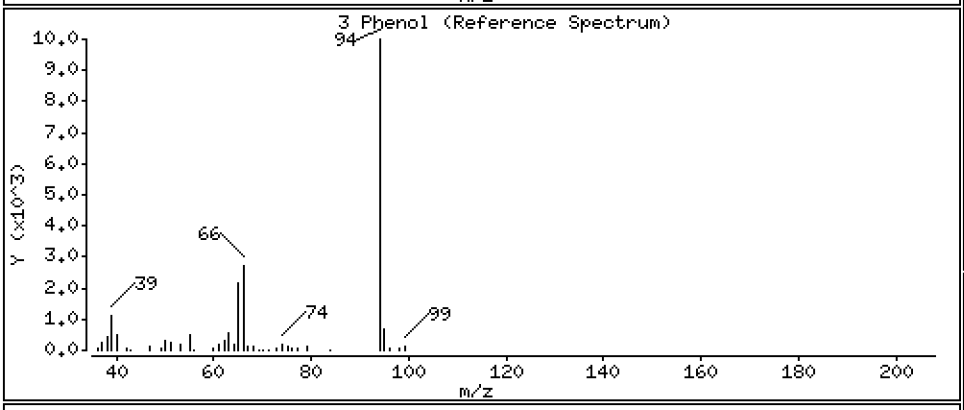
Column diameter: 0.25

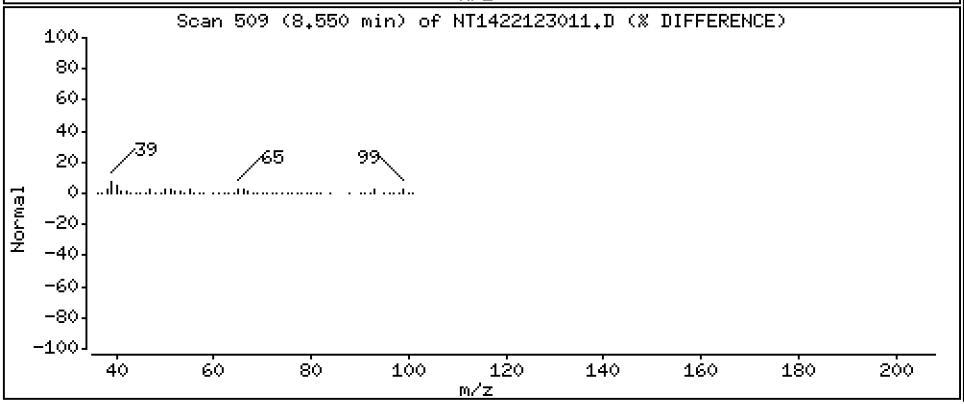
3 Phenol

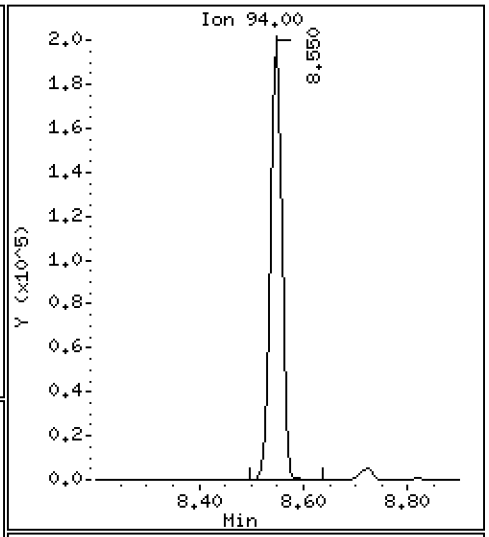
Concentration: 4.351 ug/mL

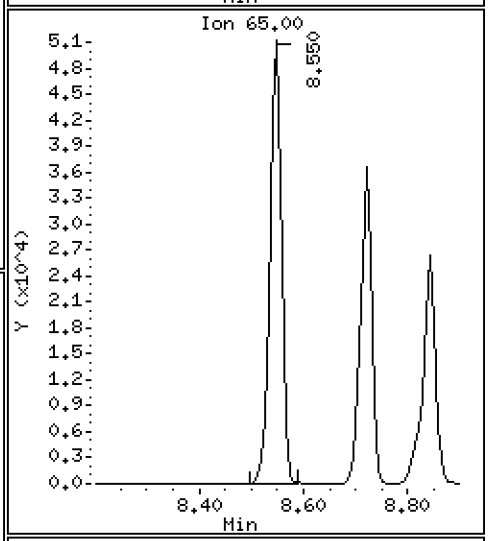


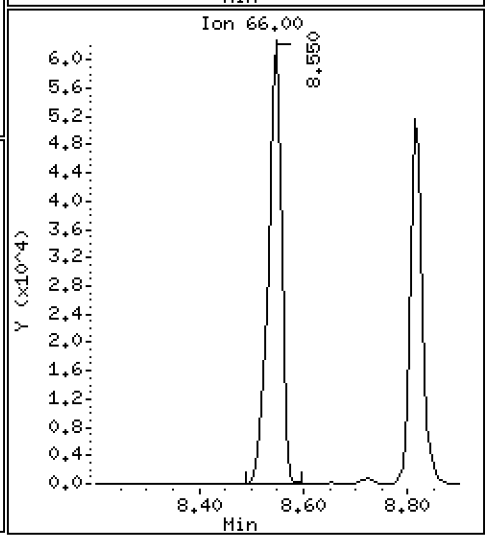












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

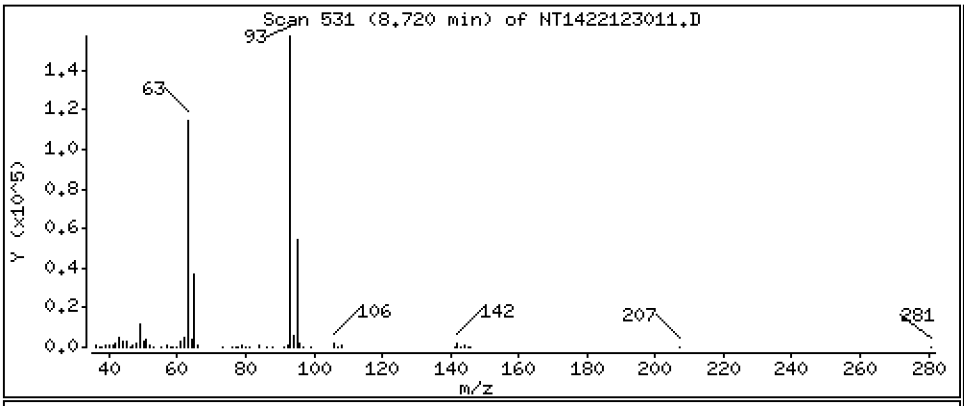
Operator: VTS

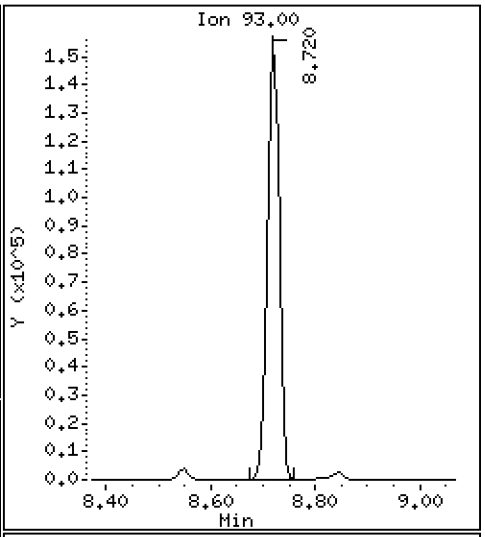
Column phase: ZB-5msi

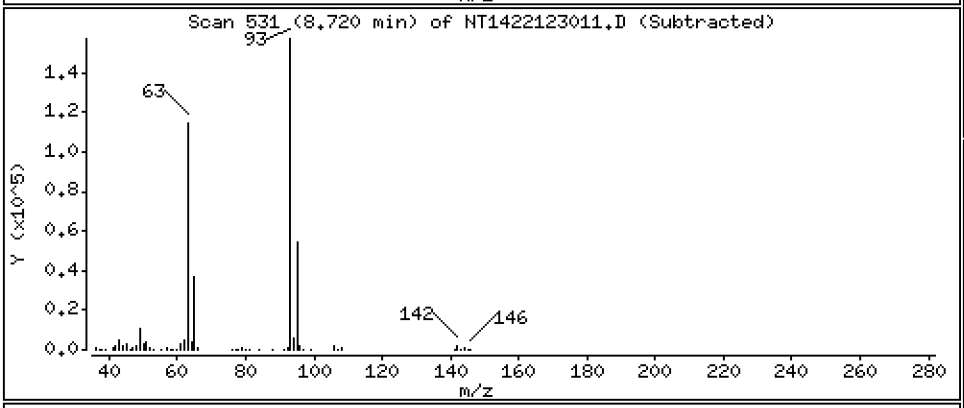
Column diameter: 0.25

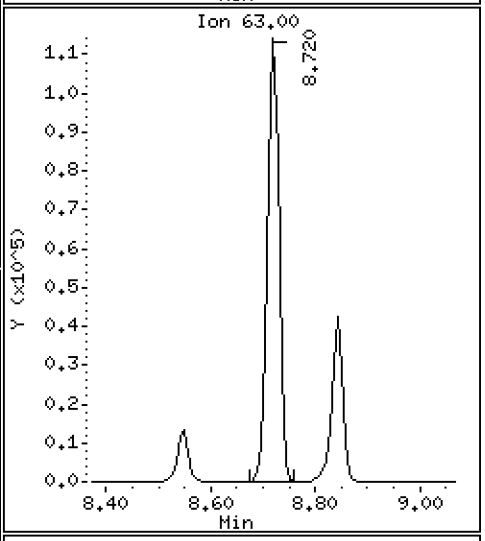
4 Bis(2-Chloroethyl)ether

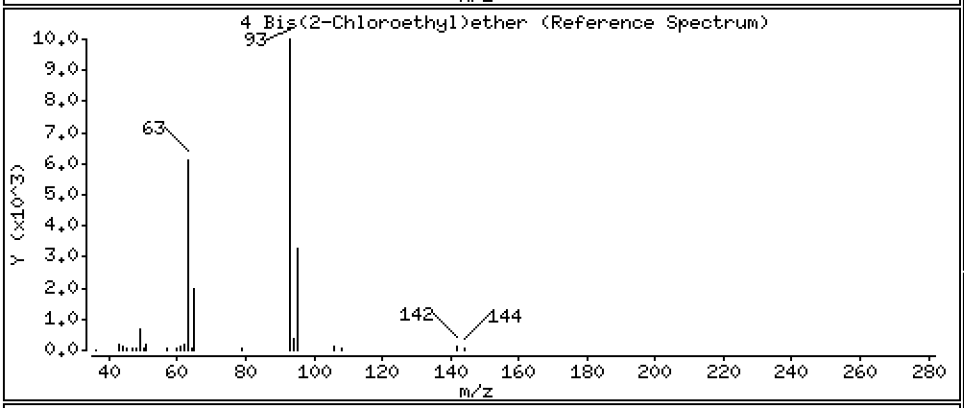
Concentration: 5.095 ug/mL

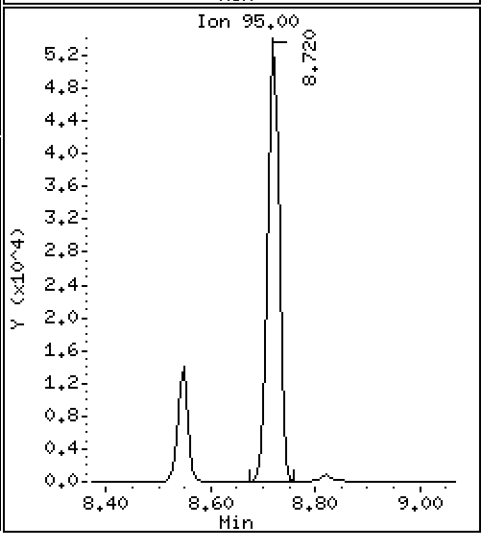


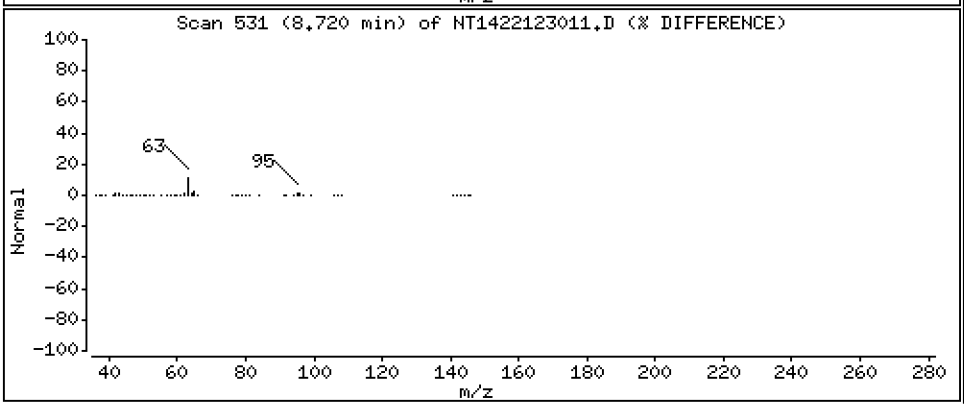












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

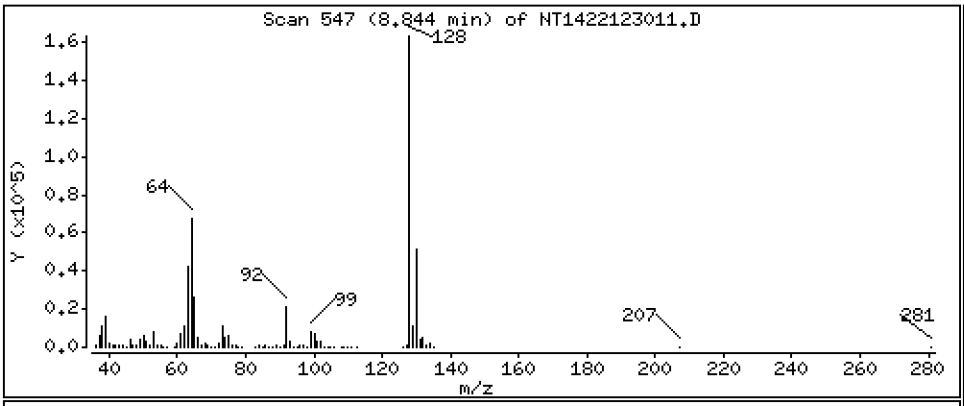
Operator: VTS

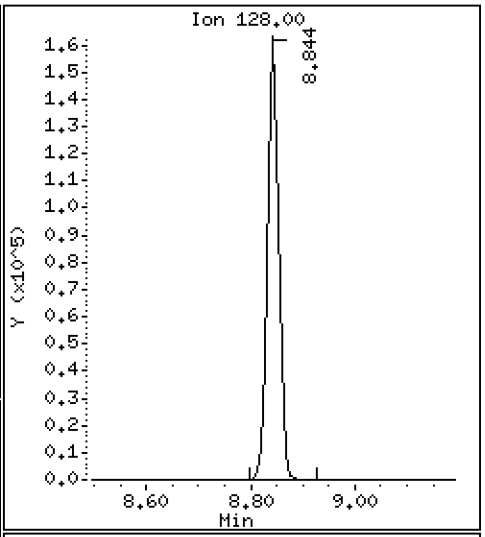
Column phase: ZB-5msi

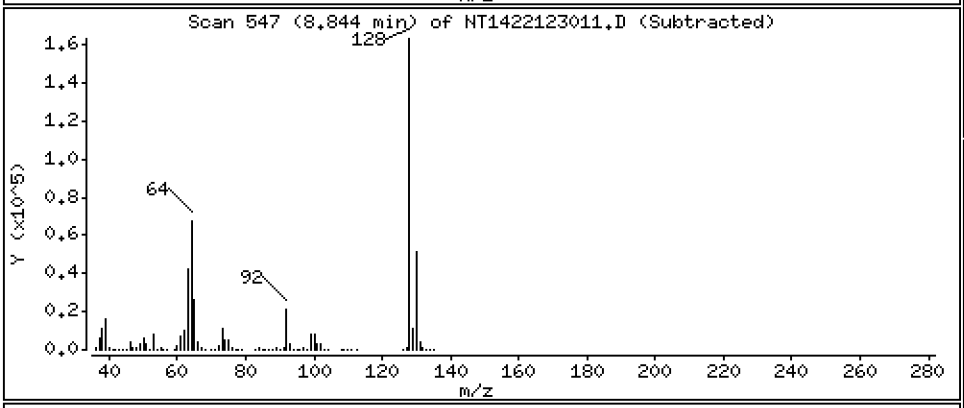
Column diameter: 0.25

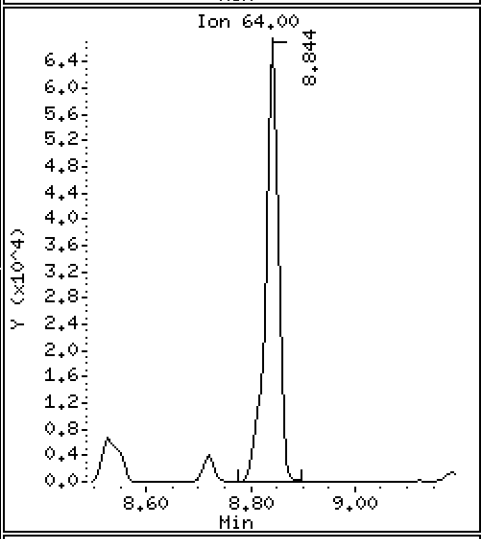
6 2-Chlorophenol

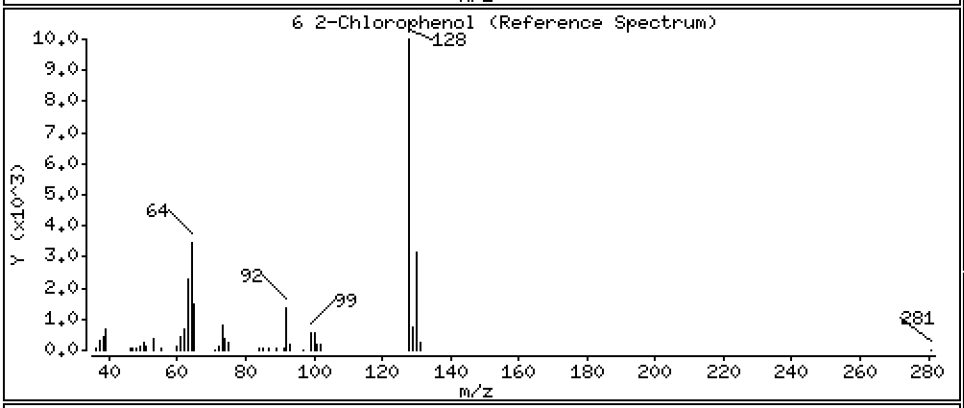
Concentration: 4.461 ug/mL

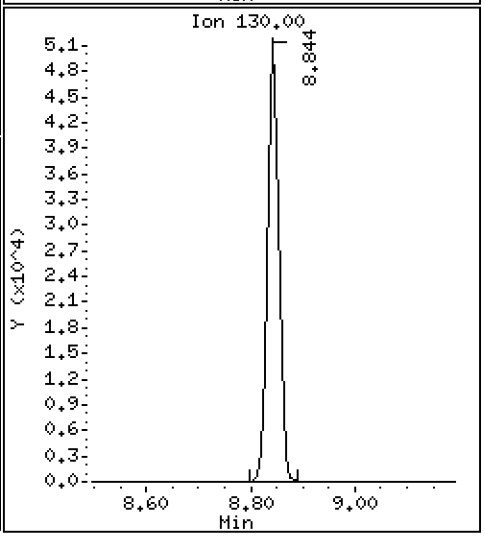


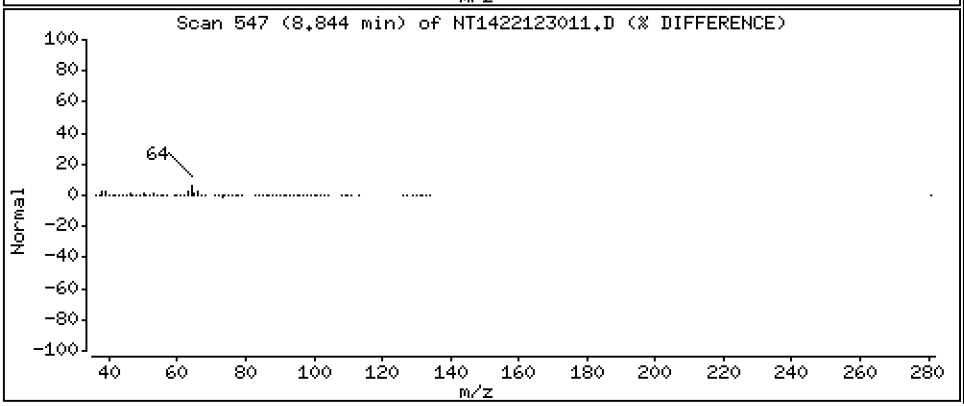












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

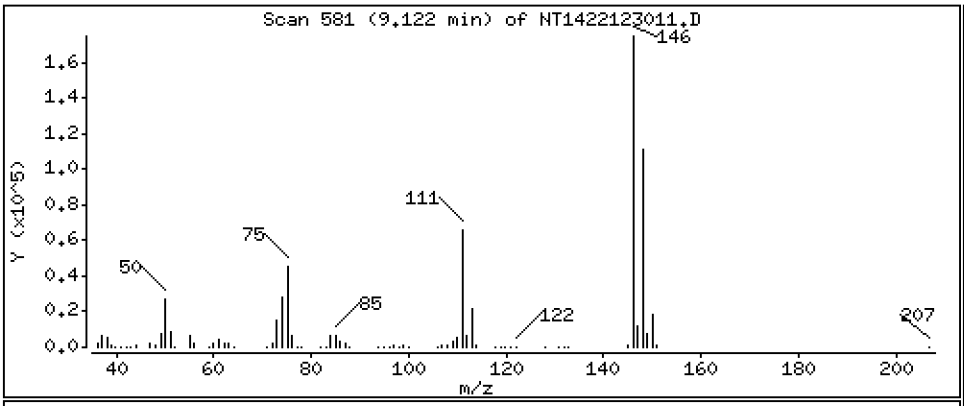
Operator: VTS

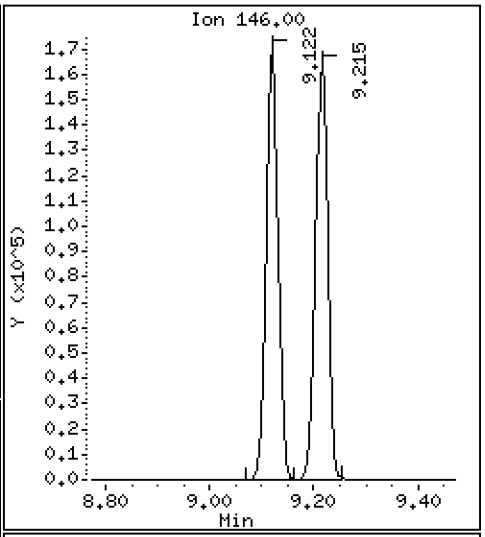
Column phase: ZB-5msi

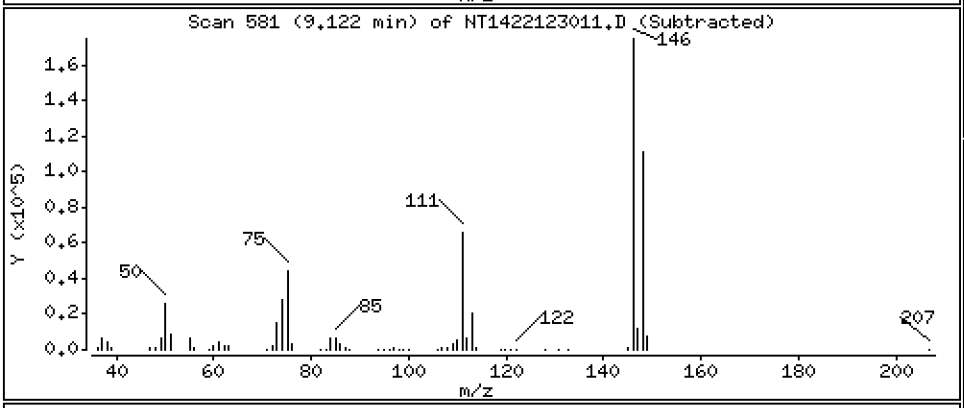
Column diameter: 0.25

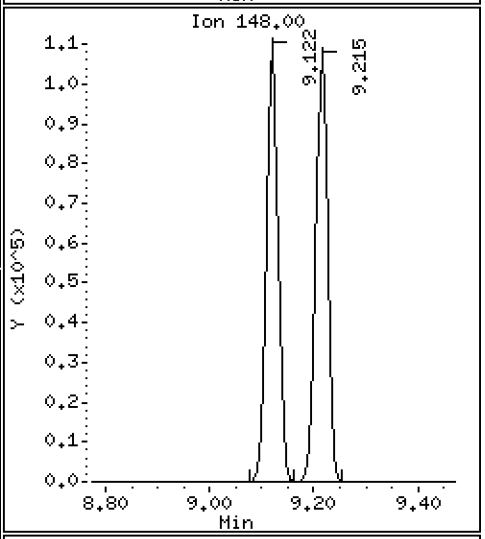
7 1,3-Dichlorobenzene

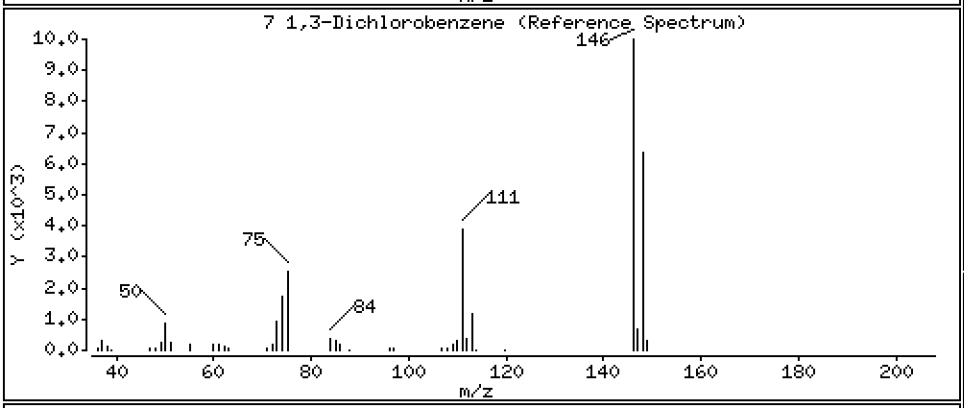
Concentration: 4.754 ug/mL

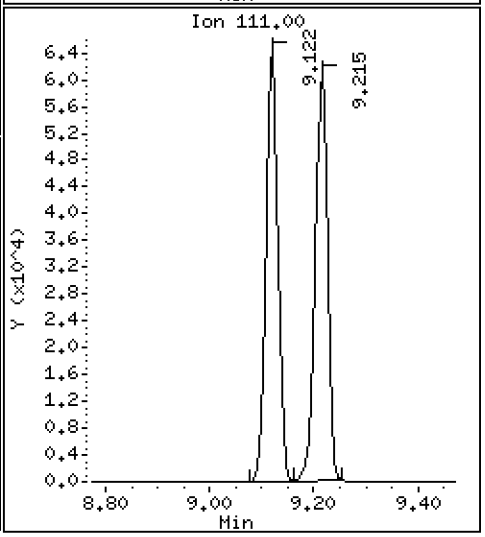


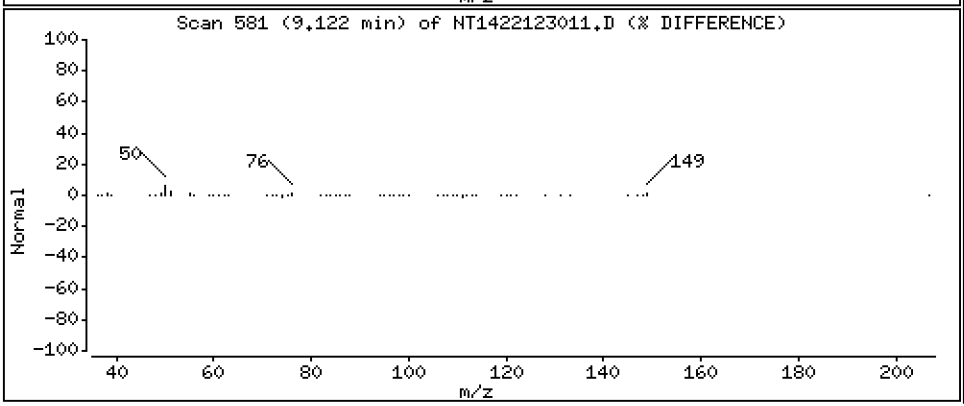












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

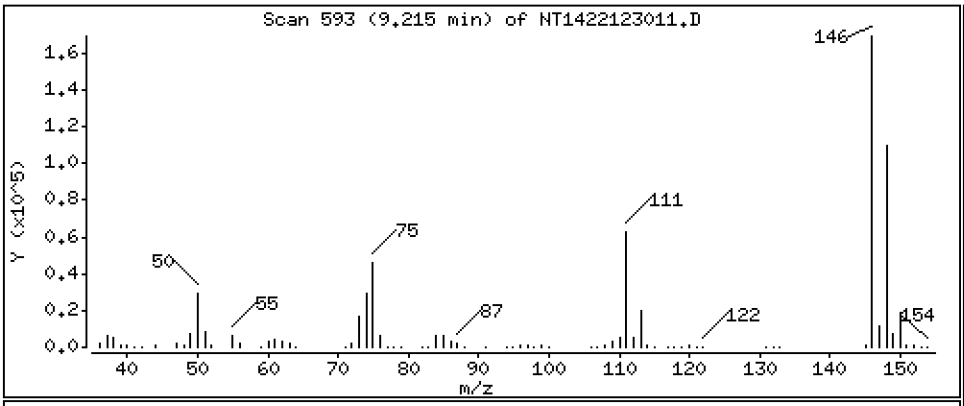
Operator: VTS

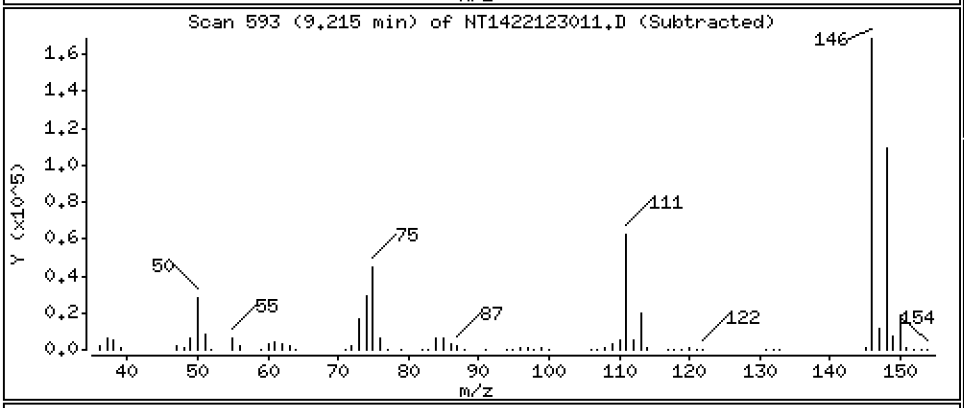
Column phase: ZB-5msi

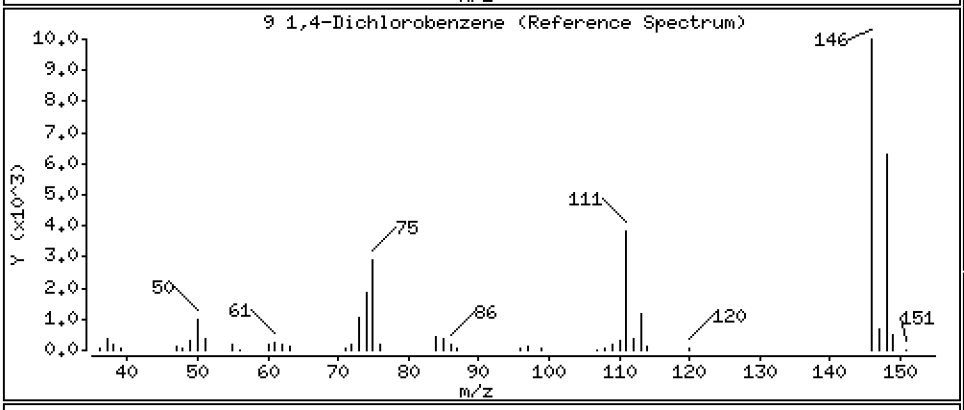
Column diameter: 0.25

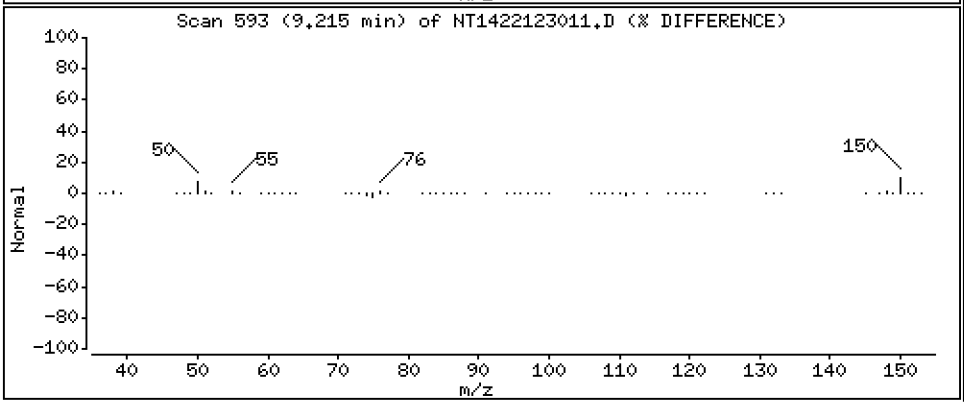
9 1,4-Dichlorobenzene

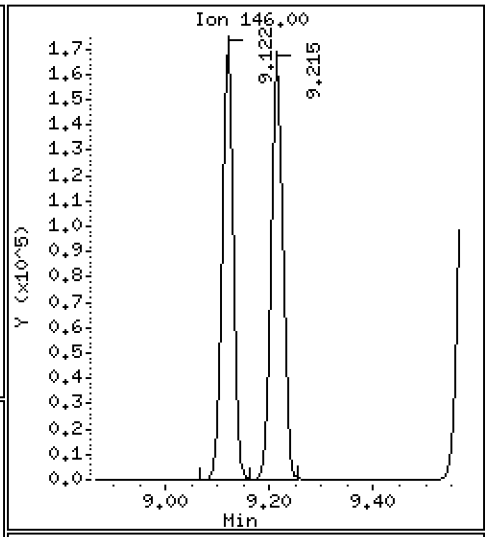
Concentration: 4.773 ug/mL

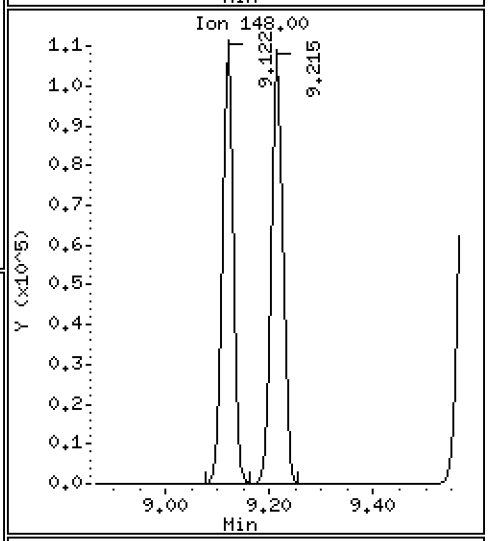


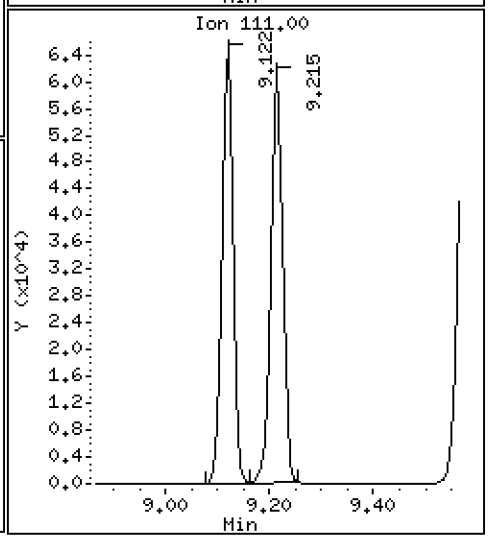












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

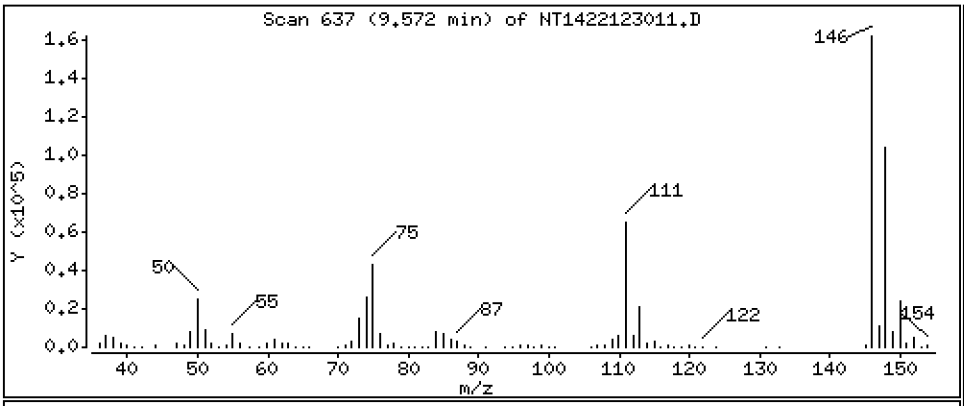
Operator: VTS

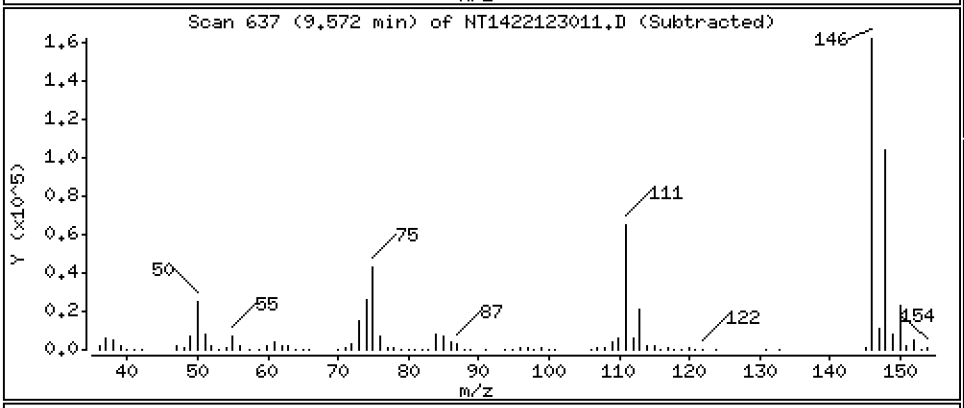
Column phase: ZB-5msi

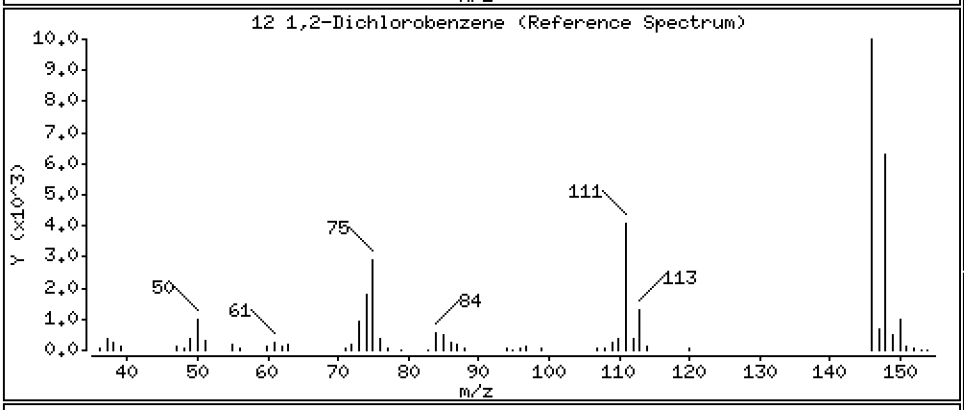
Column diameter: 0.25

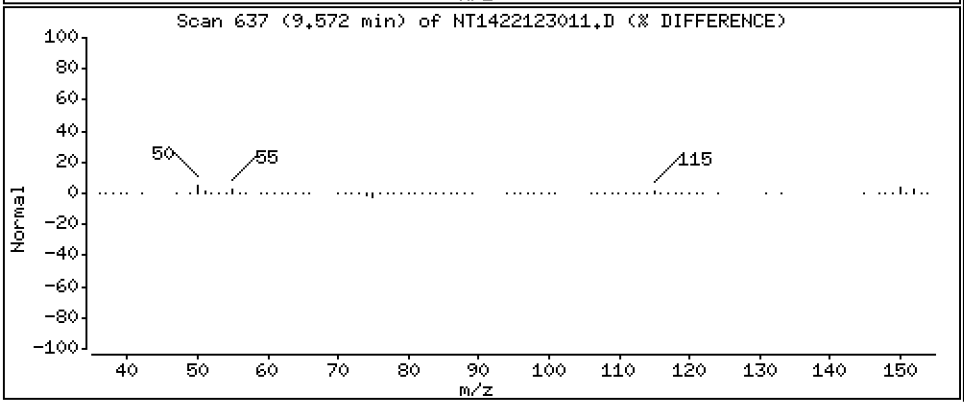
12 1,2-Dichlorobenzene

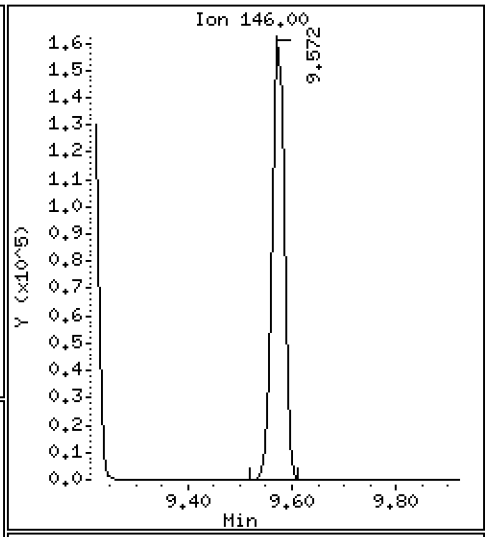
Concentration: 4.767 ug/mL

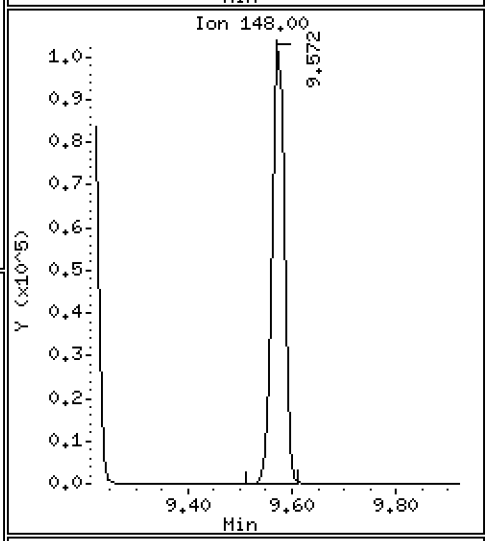


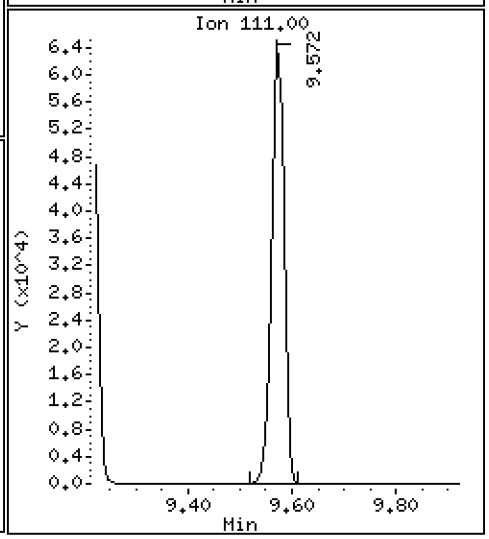












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

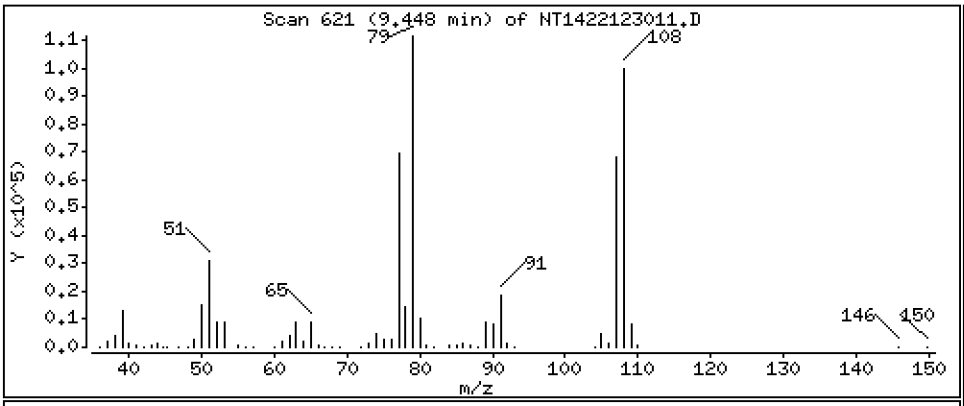
Operator: VTS

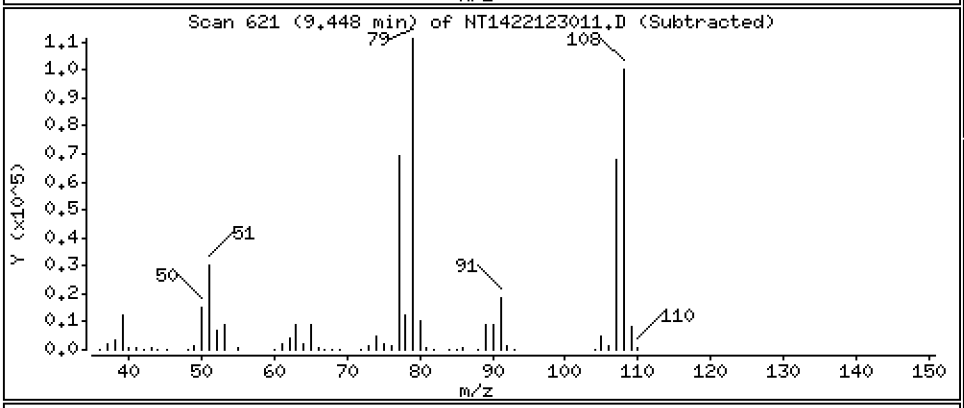
Column phase: ZB-5msi

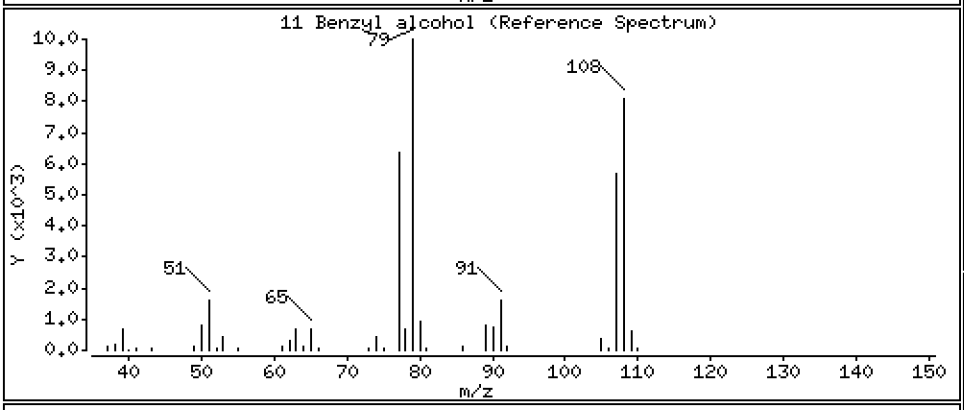
Column diameter: 0.25

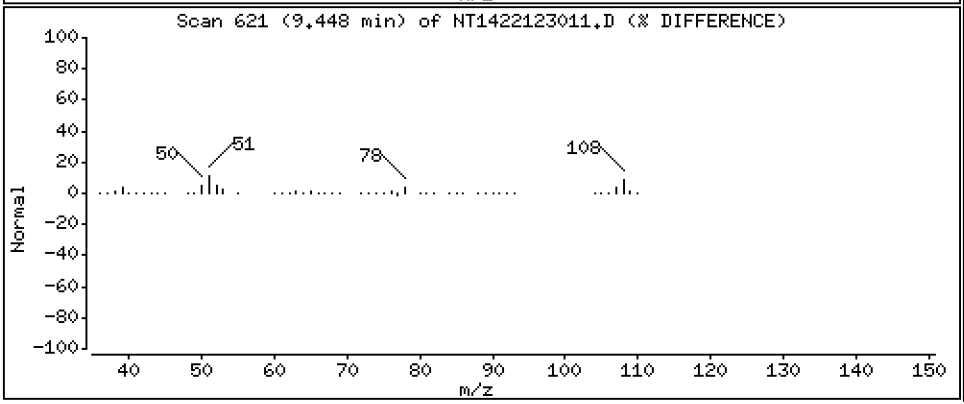
11 Benzyl alcohol

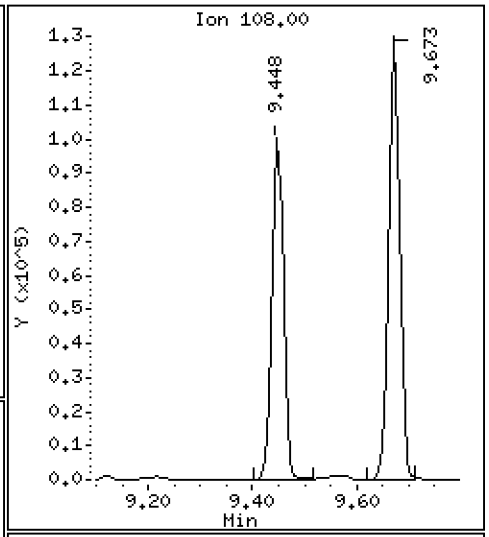
Concentration: 4.980 ug/mL

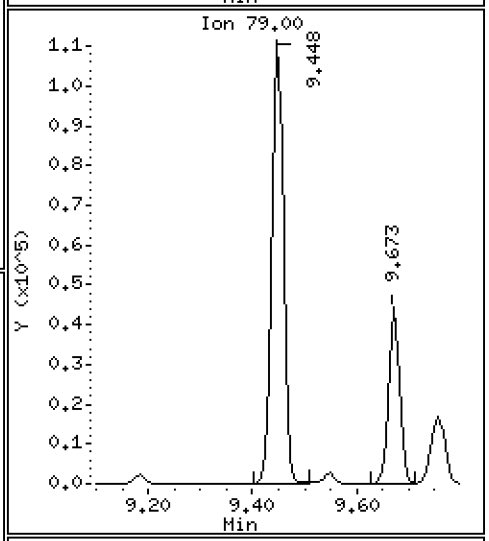


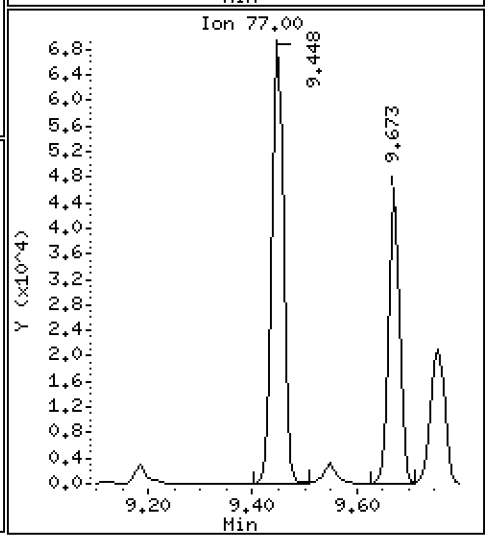












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

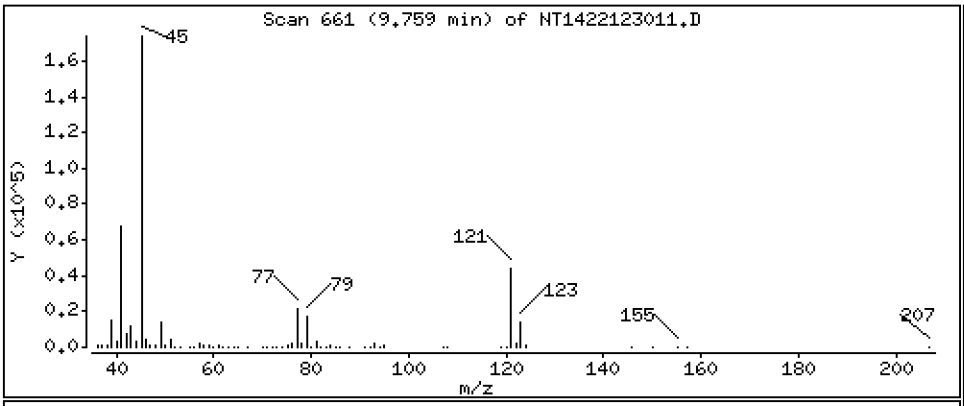
Operator: VTS

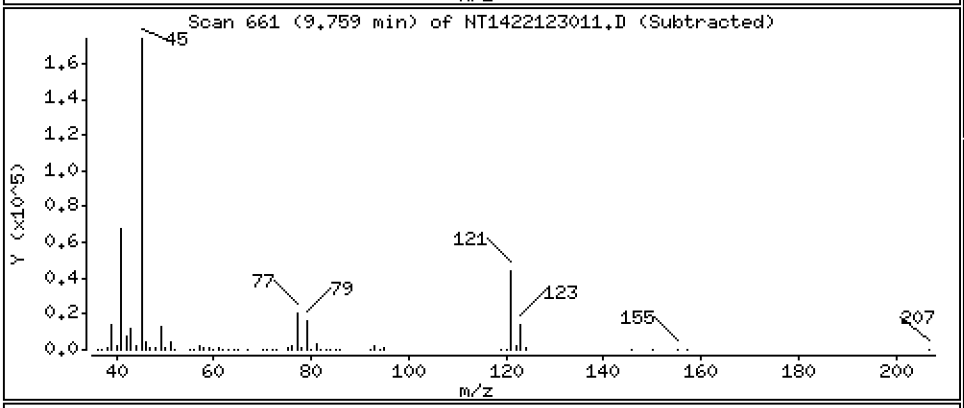
Column phase: ZB-5msi

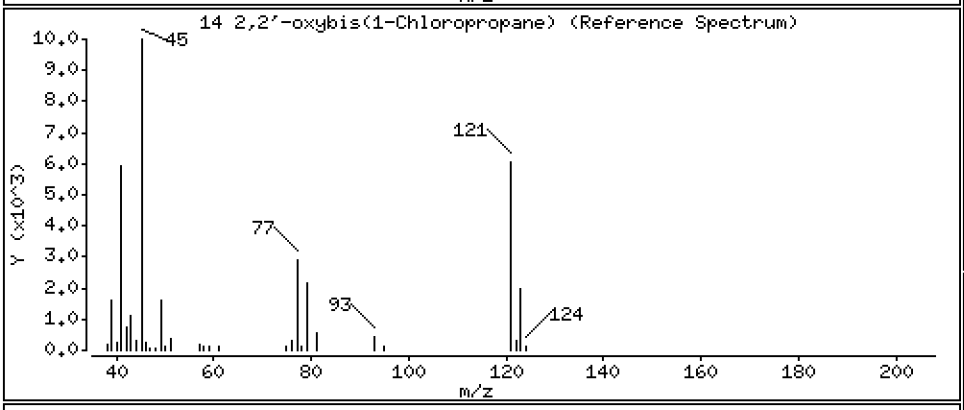
Column diameter: 0.25

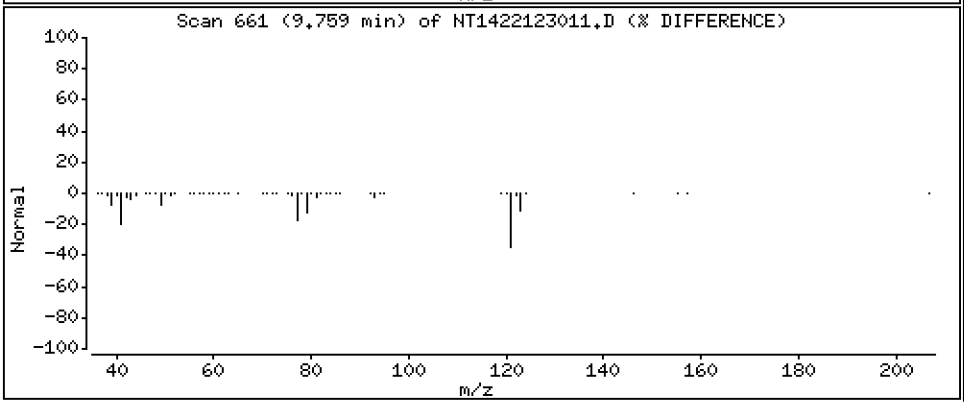
14 2,2'-oxybis(1-Chloropropane)

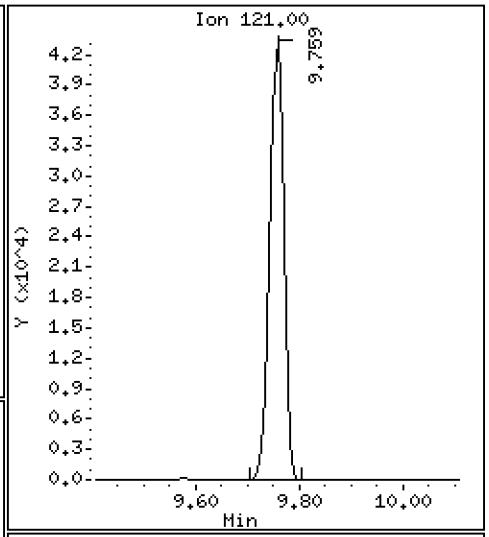
Concentration: 5.193 ug/mL

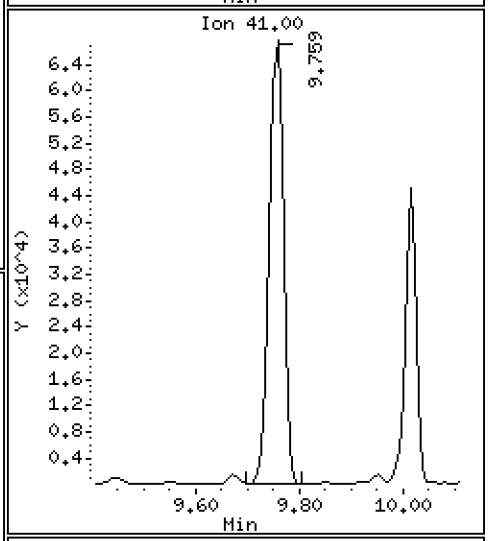


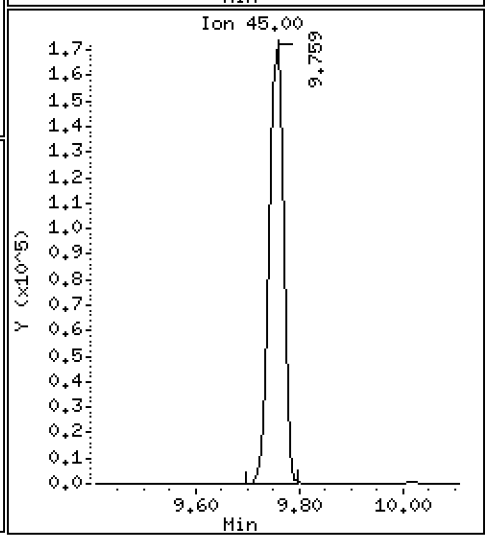












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

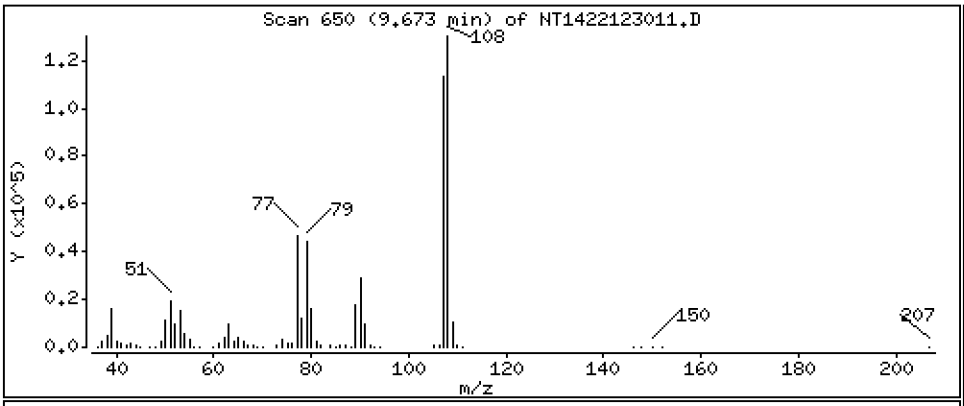
Operator: VTS

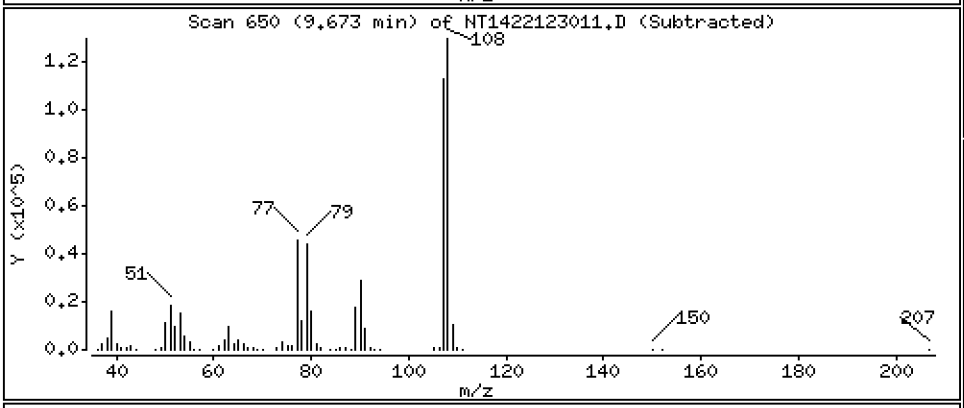
Column phase: ZB-5msi

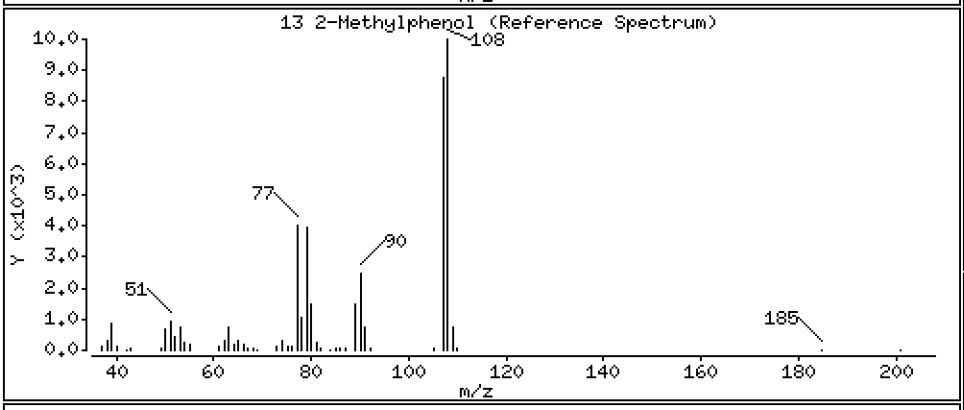
Column diameter: 0.25

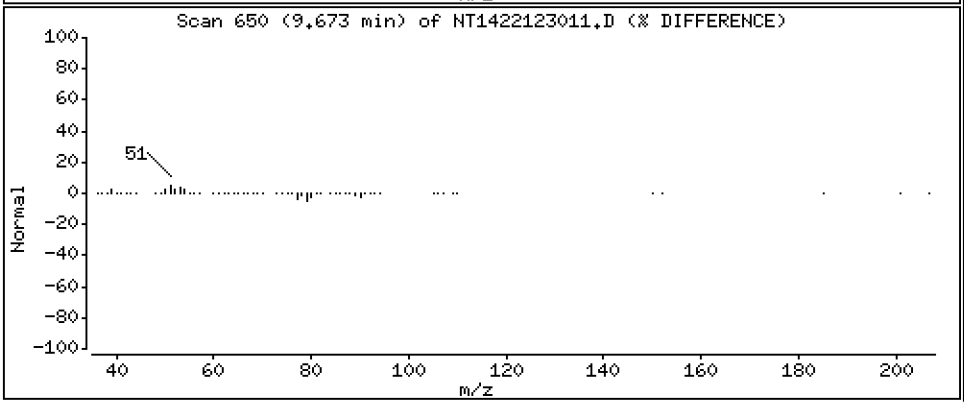
13 2-Methylphenol

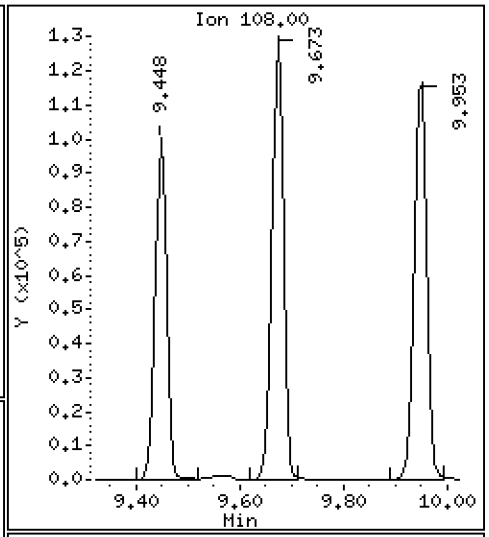
Concentration: 3.927 ug/mL

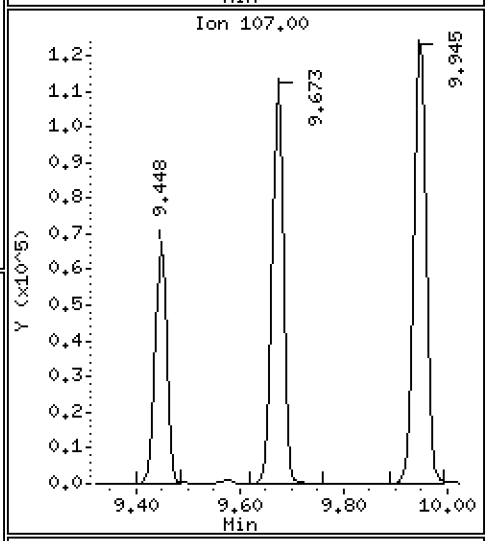


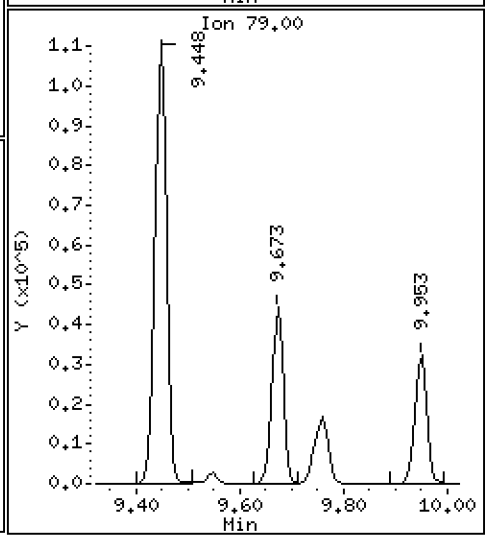












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

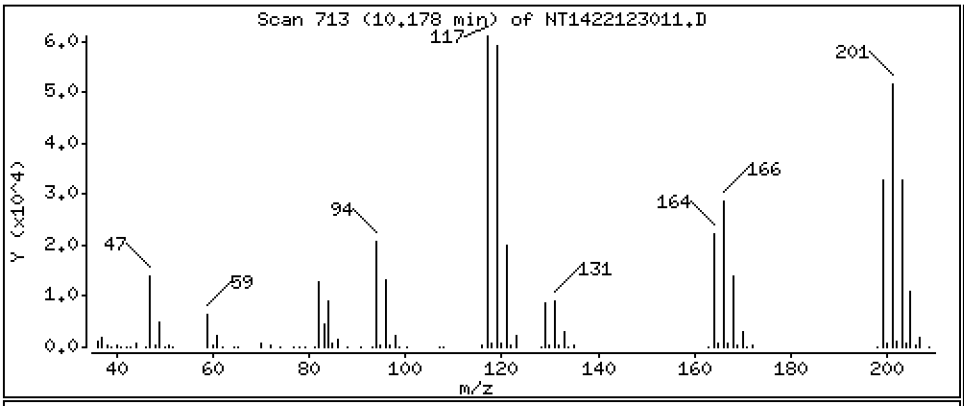
Operator: VTS

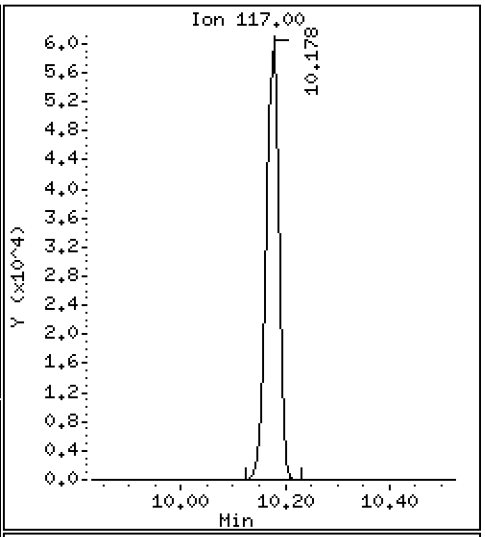
Column phase: ZB-5msi

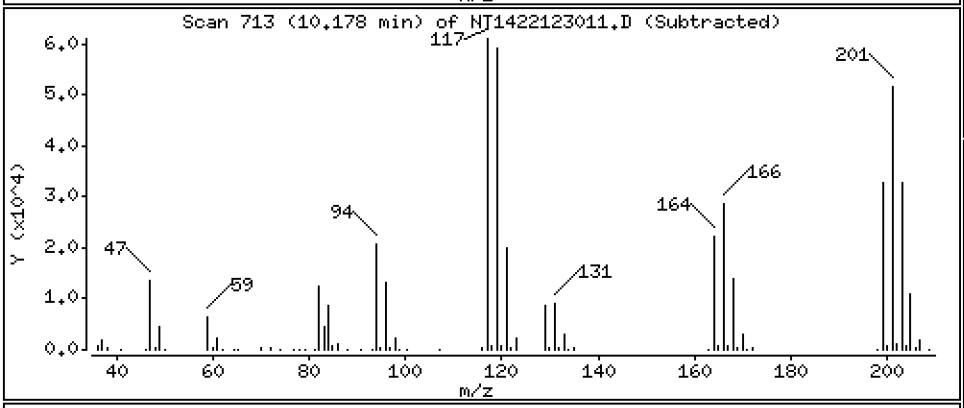
Column diameter: 0.25

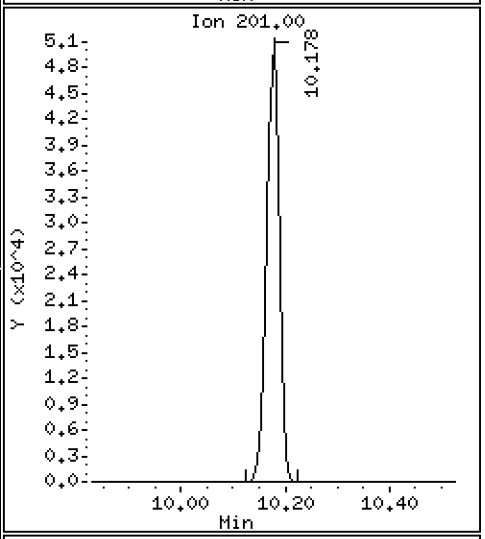
17 Hexachloroethane

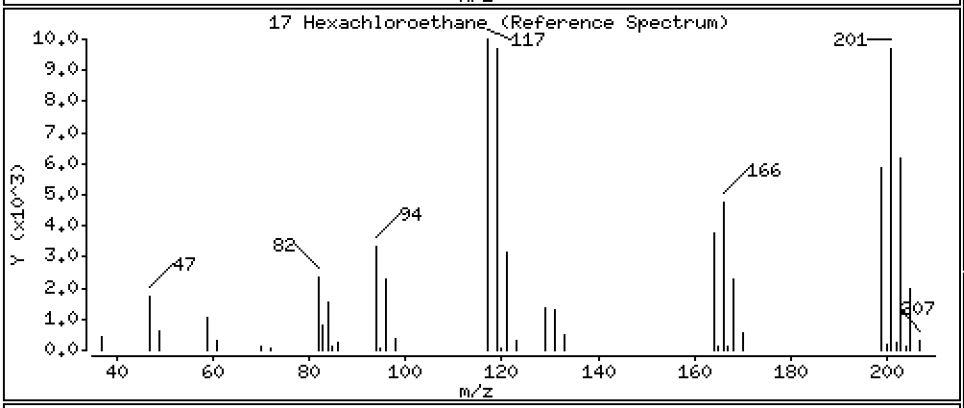
Concentration: 4.929 ug/mL

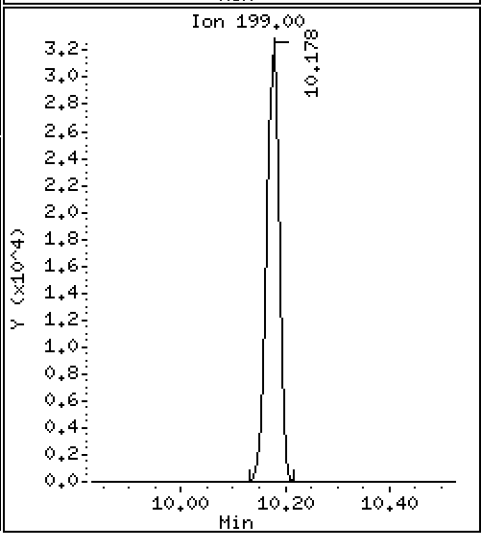


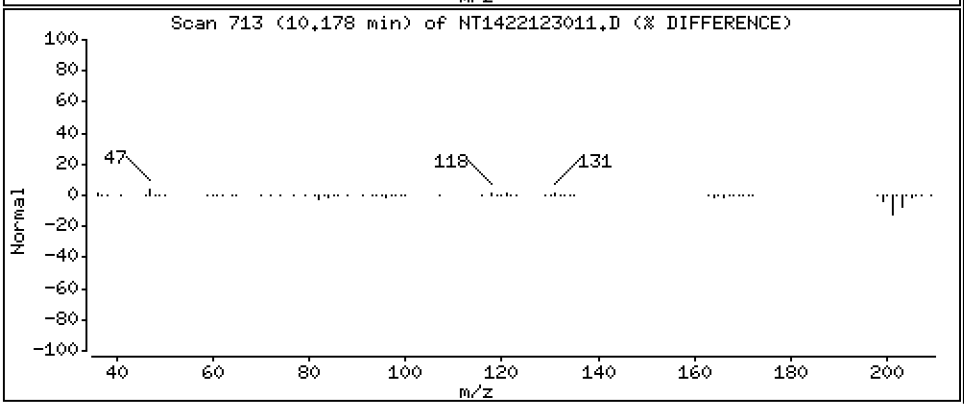












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

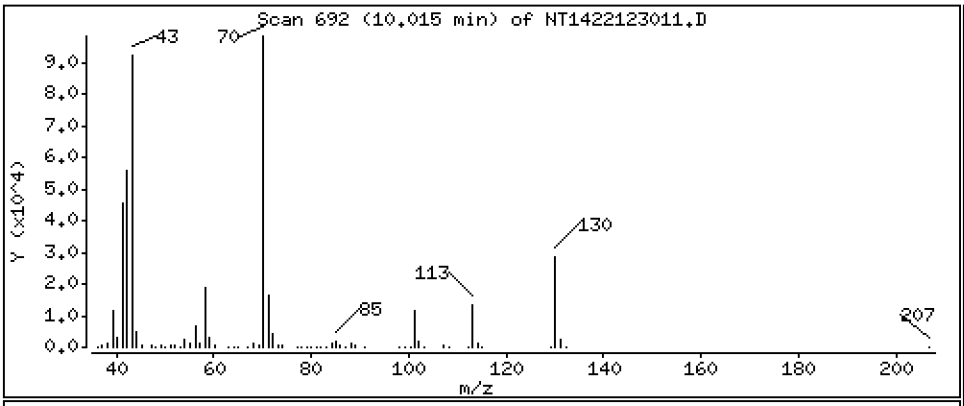
Operator: VTS

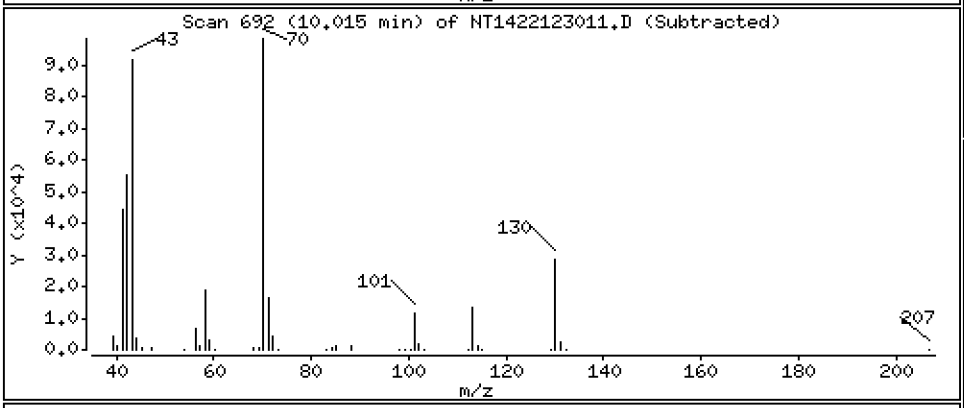
Column phase: ZB-5msi

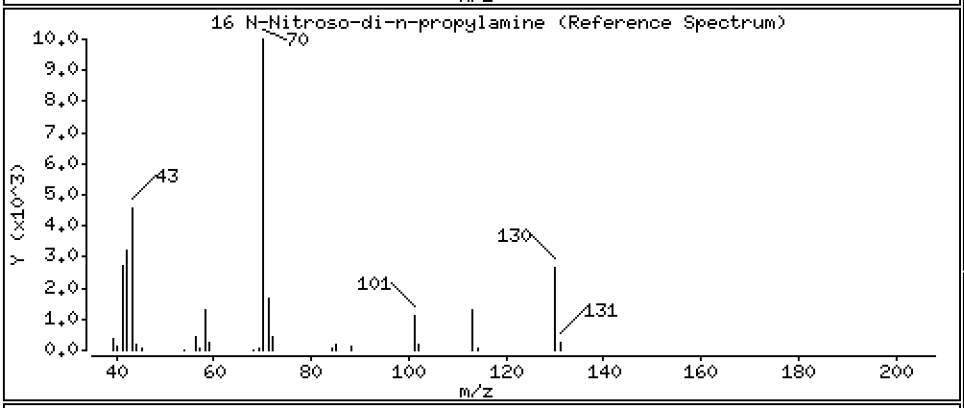
Column diameter: 0.25

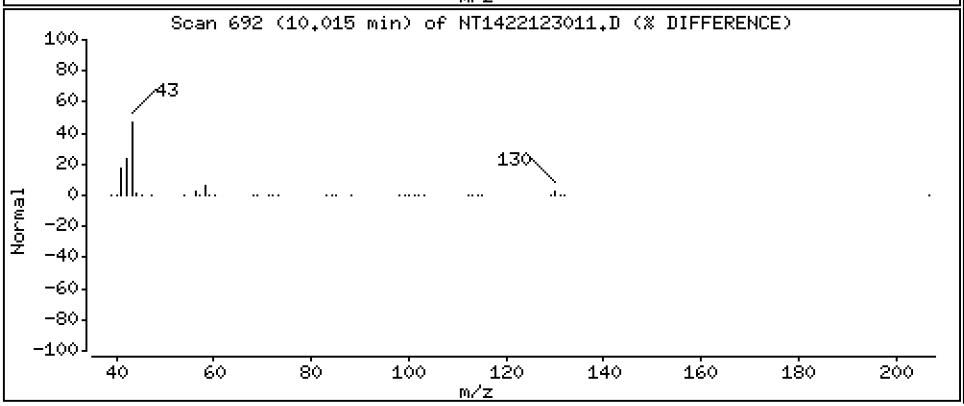
16 N-Nitroso-di-n-propylamine

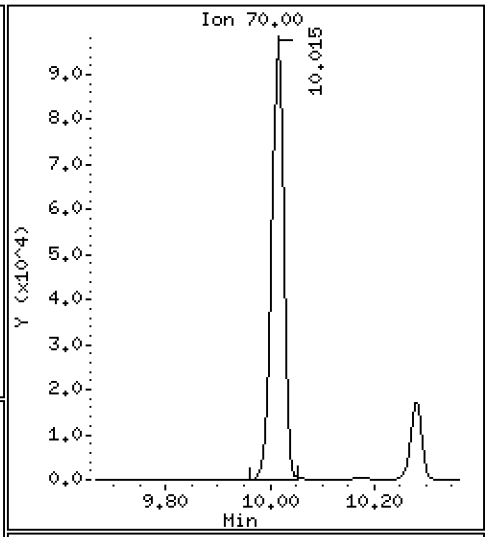
Concentration: 5.128 ug/mL

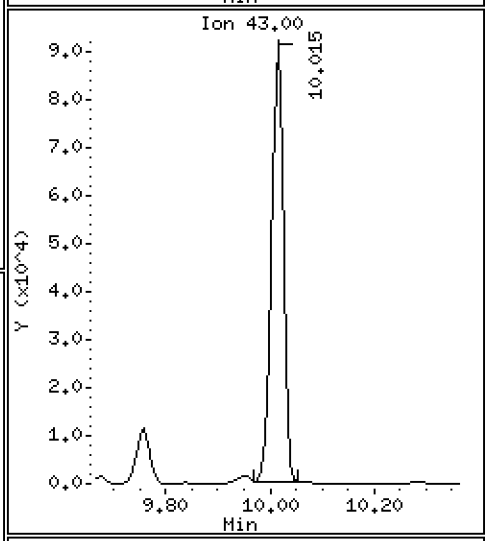


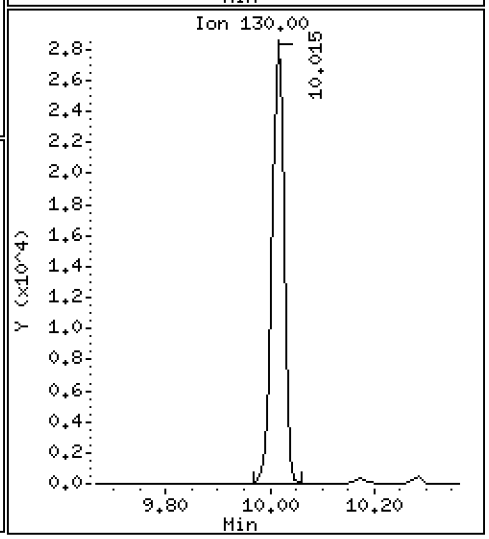












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

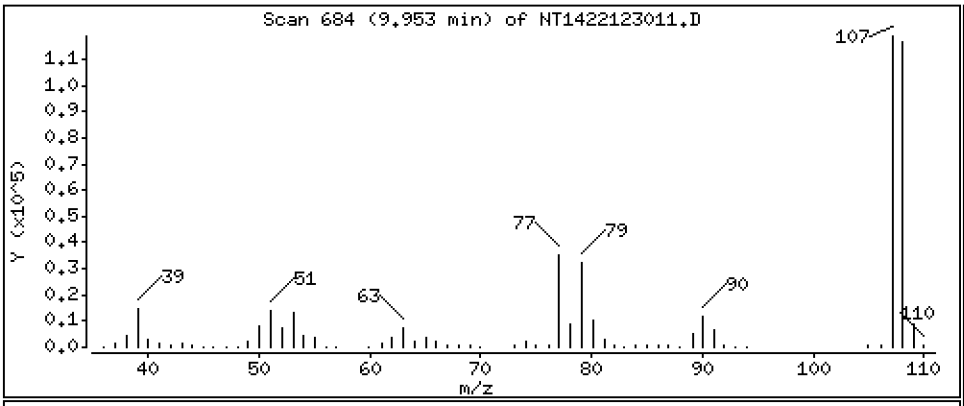
Operator: VTS

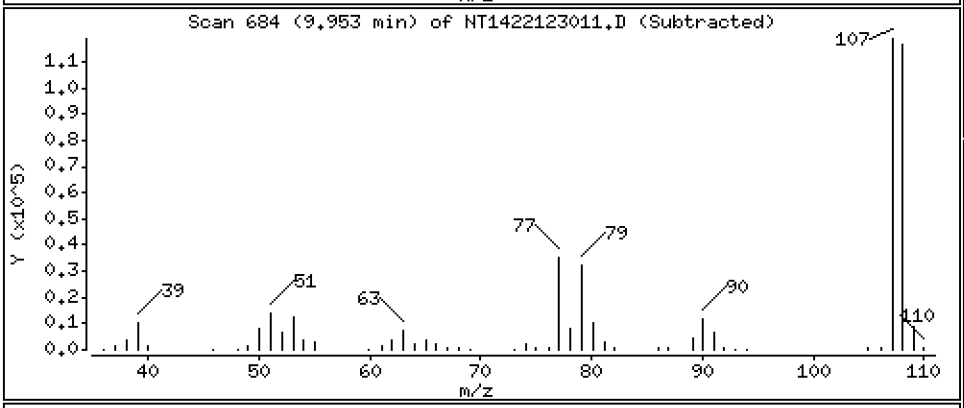
Column phase: ZB-5msi

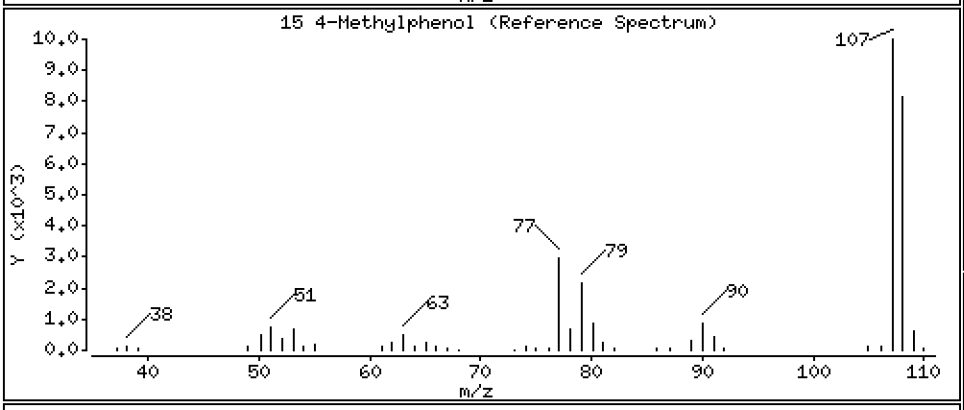
Column diameter: 0.25

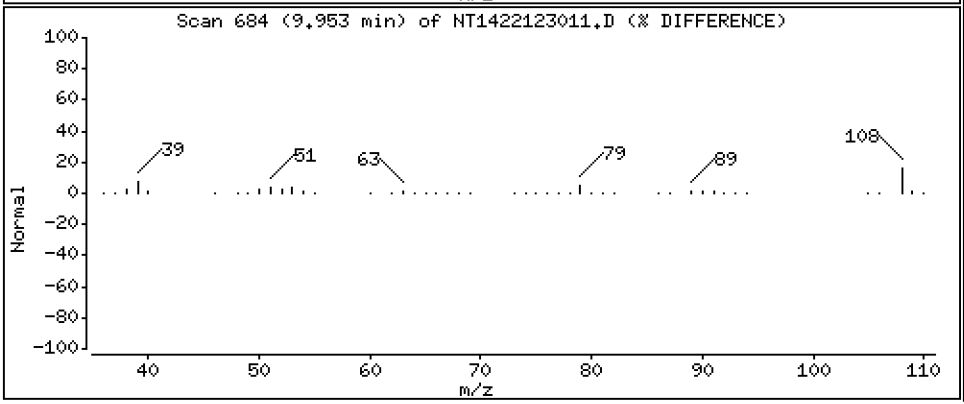
15 4-Methylphenol

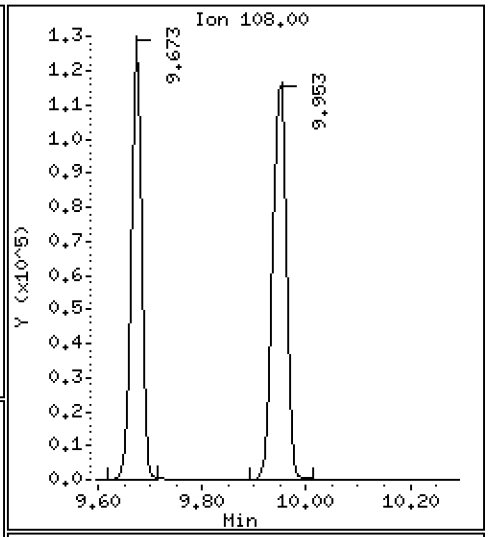
Concentration: 4.122 ug/mL

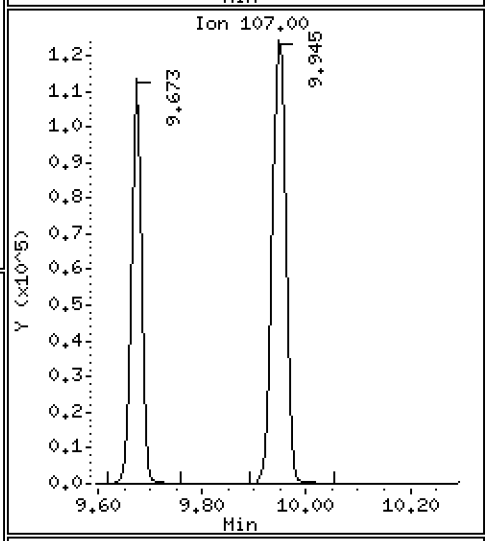


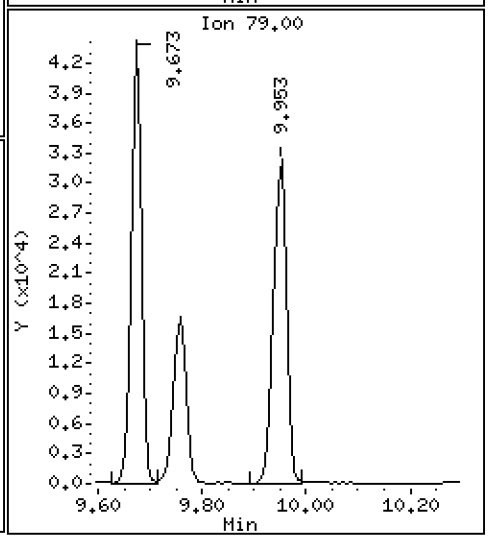












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

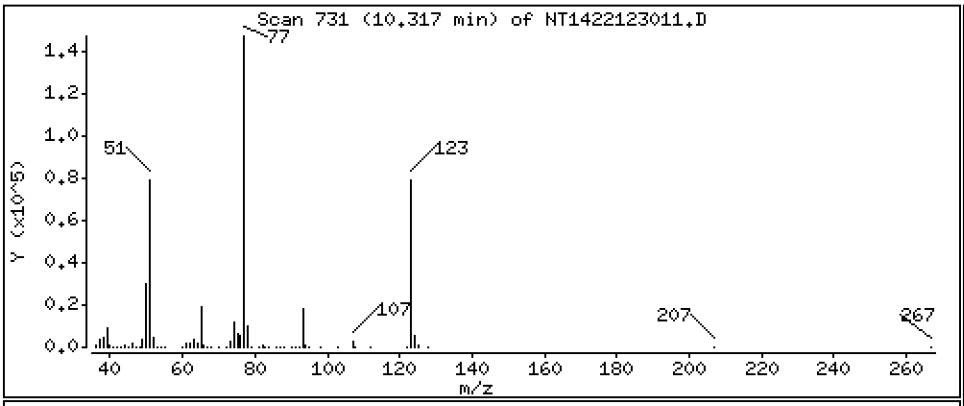
Operator: VTS

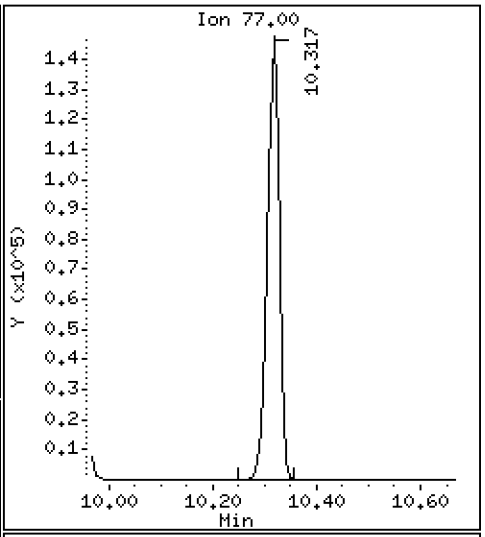
Column phase: ZB-5msi

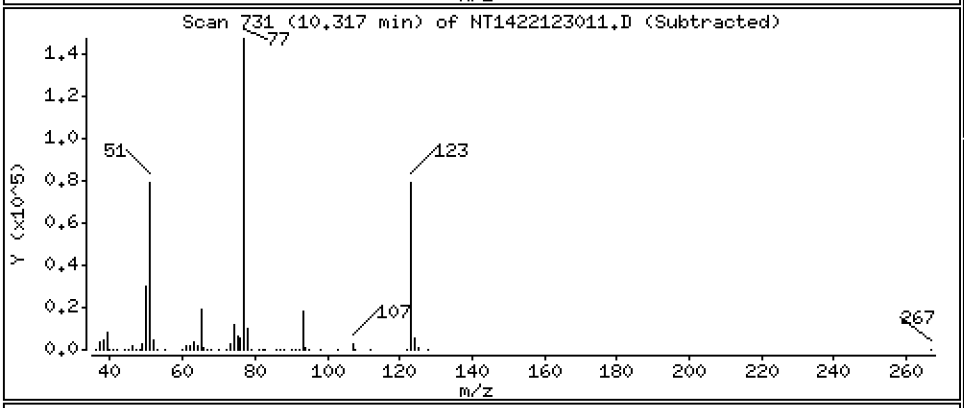
Column diameter: 0.25

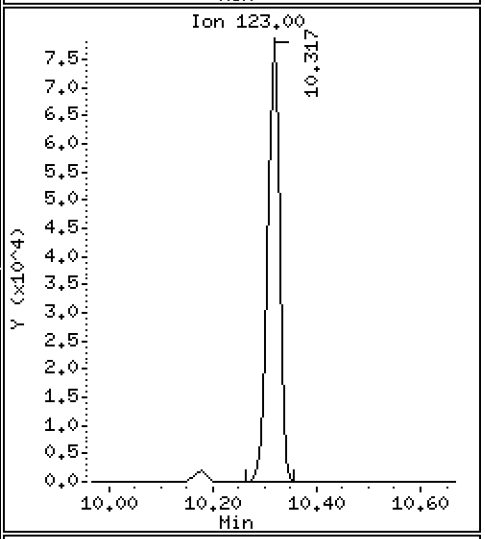
19 Nitrobenzene

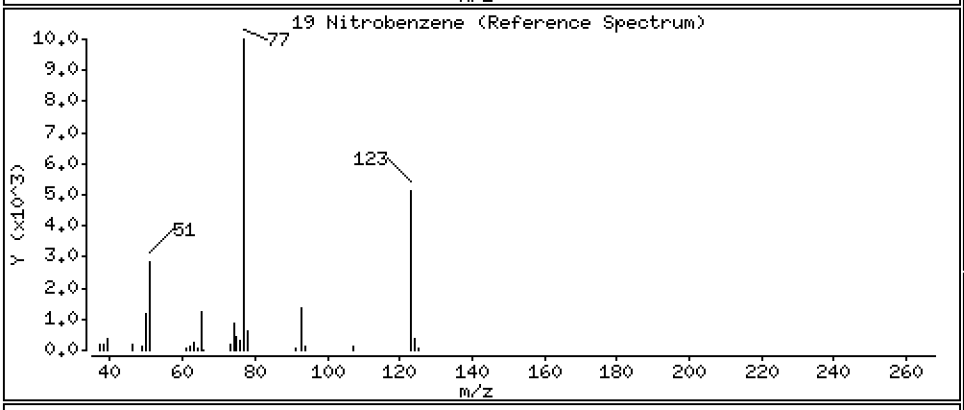
Concentration: 4.880 ug/mL

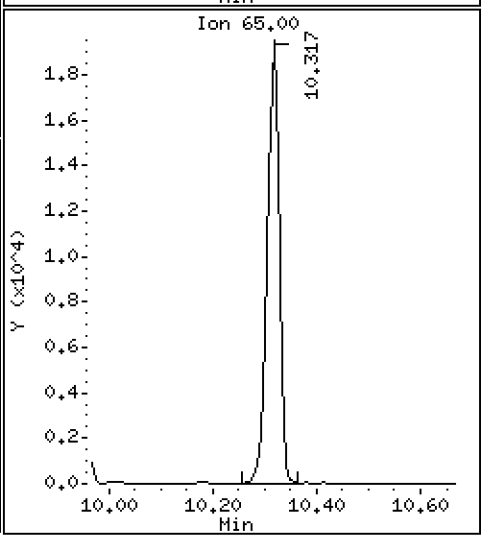


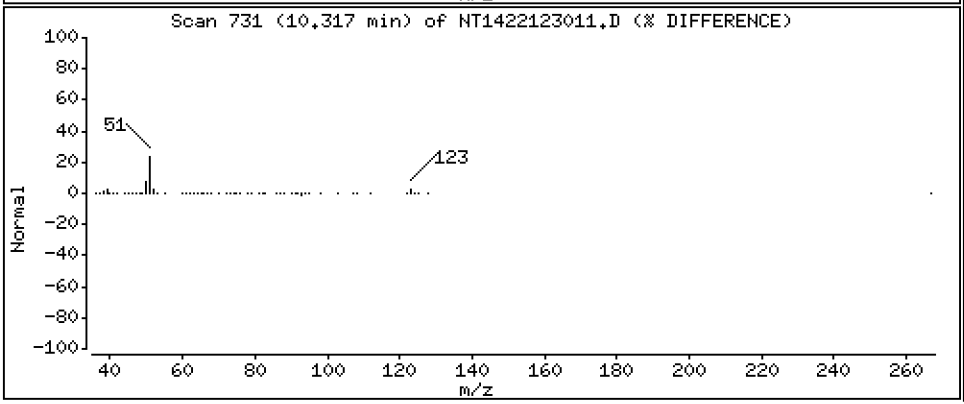












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

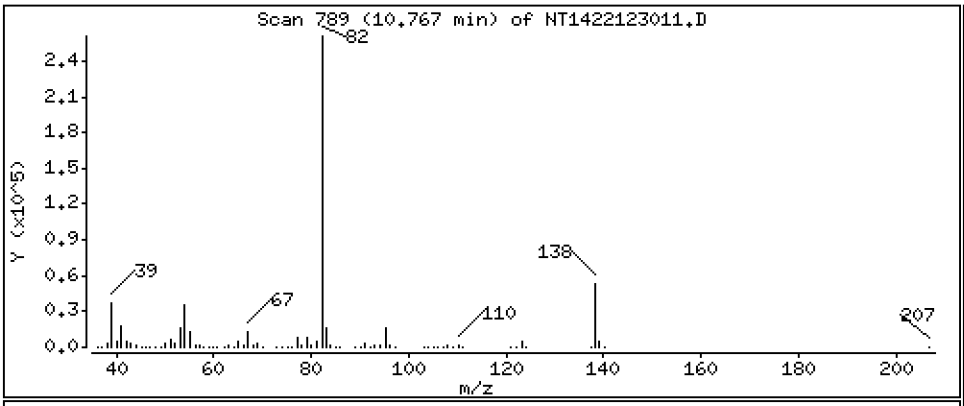
Operator: VTS

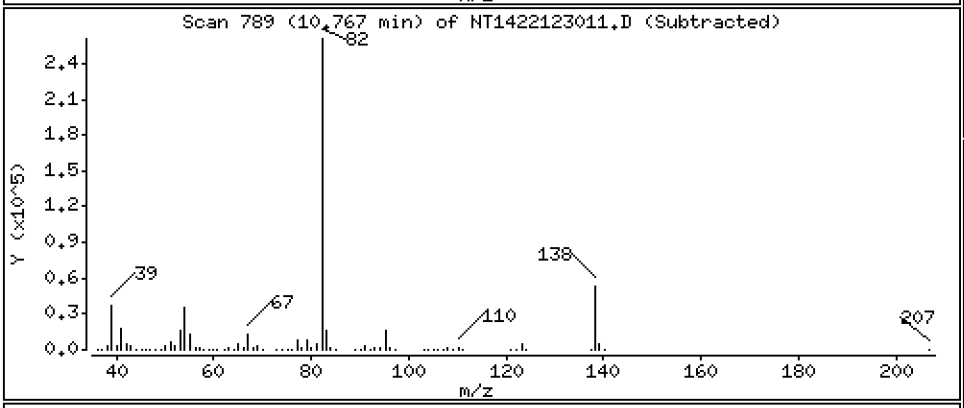
Column phase: ZB-5msi

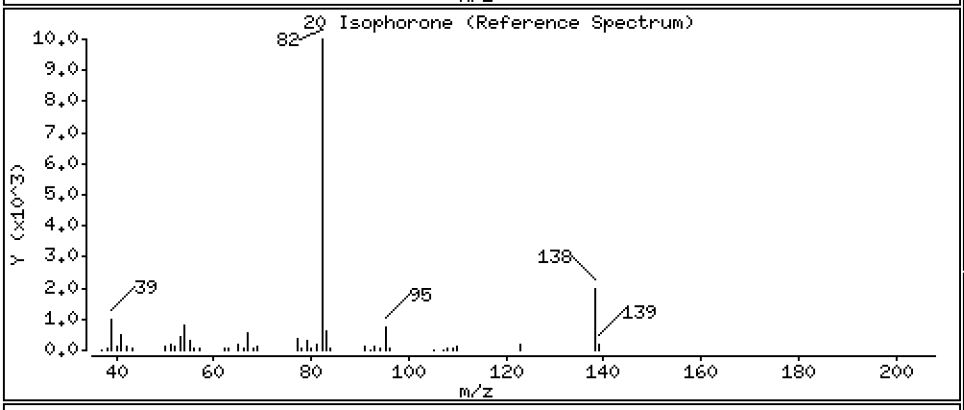
Column diameter: 0.25

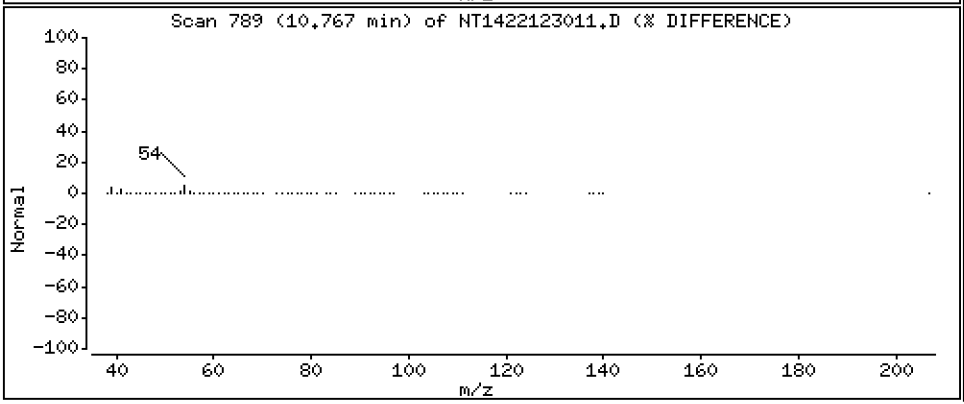
20 Isophorone

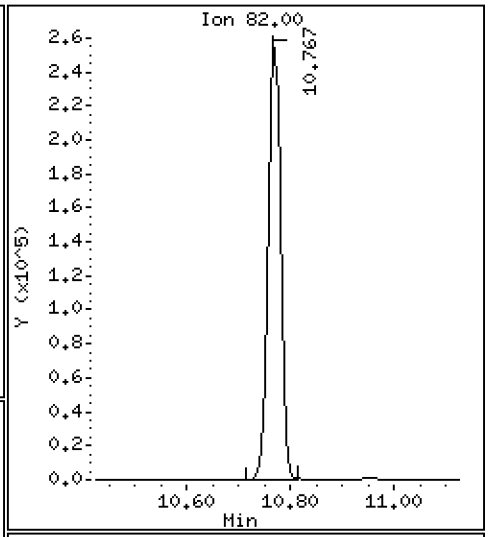
Concentration: 6.946 ug/mL

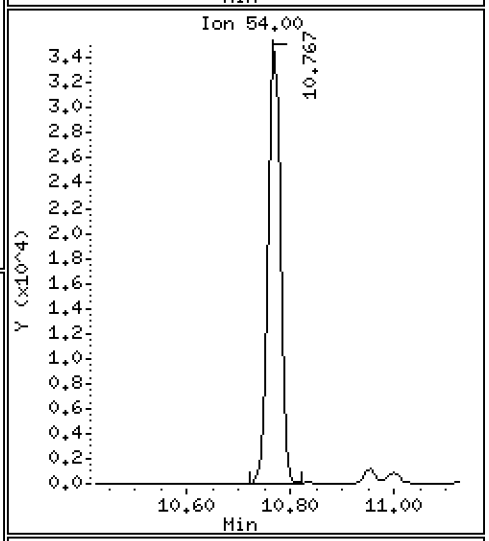


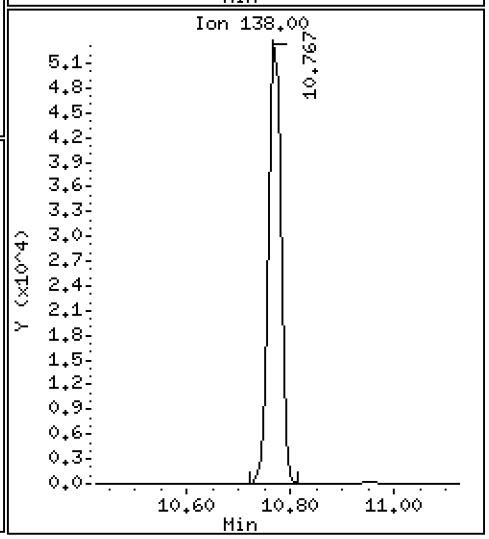












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

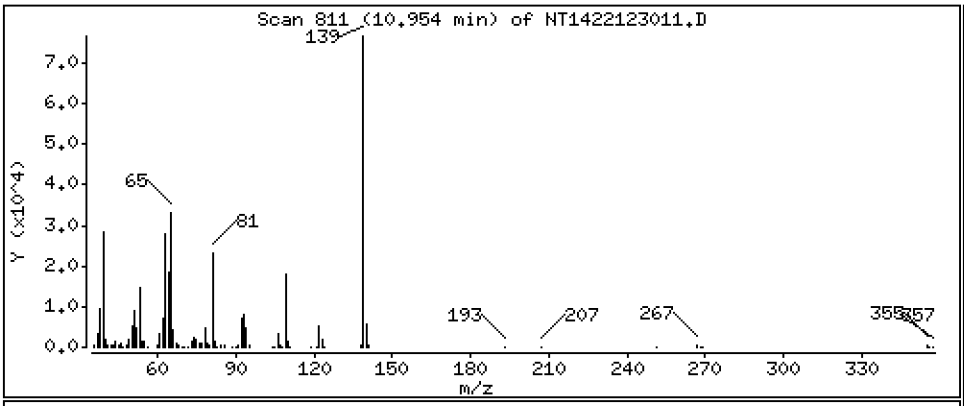
Operator: VTS

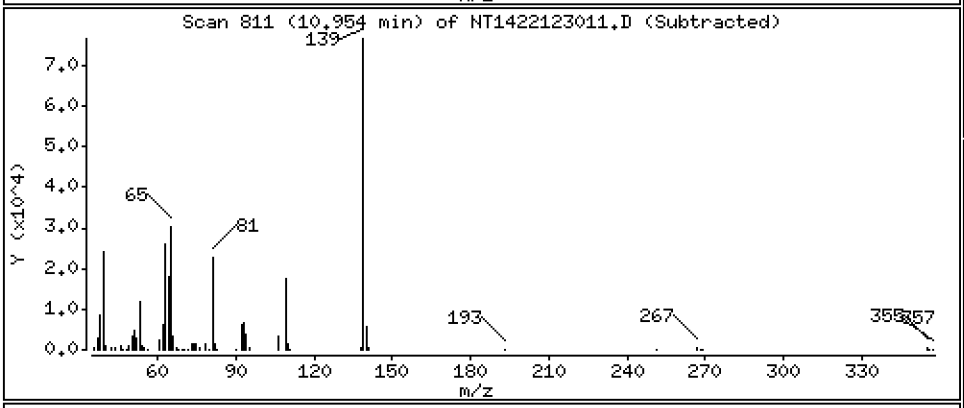
Column phase: ZB-5msi

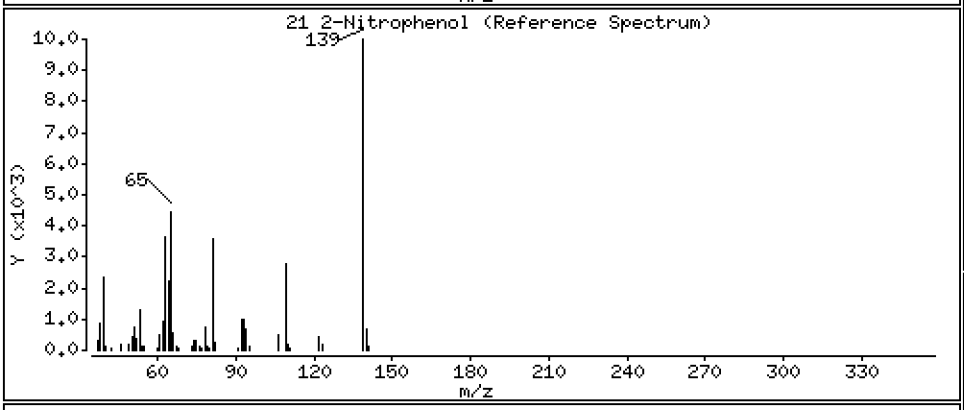
Column diameter: 0.25

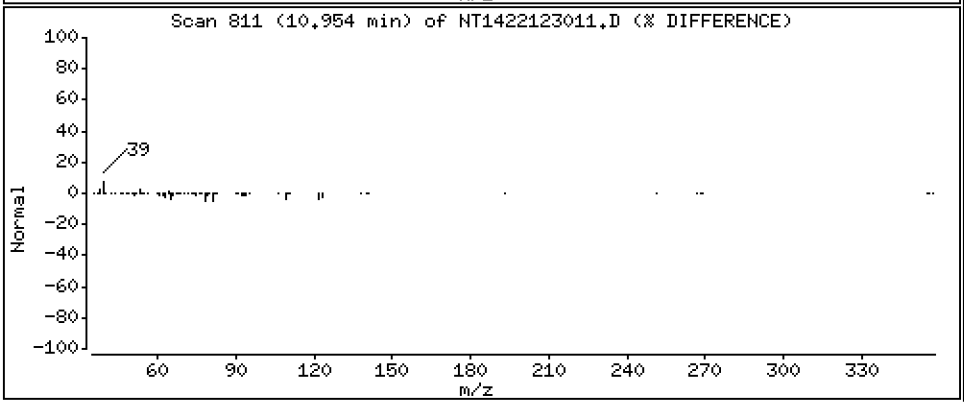
21 2-Nitrophenol

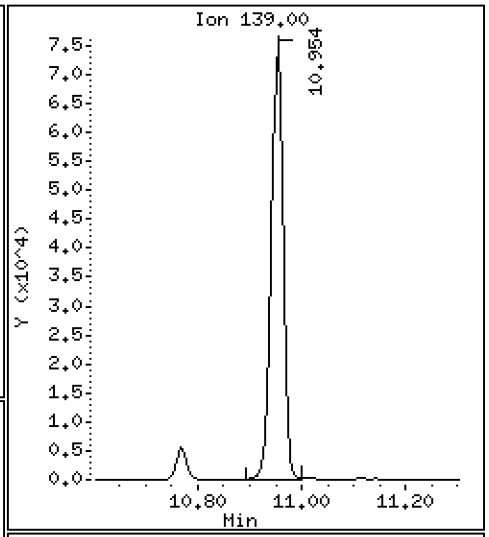
Concentration: 4.556 ug/mL

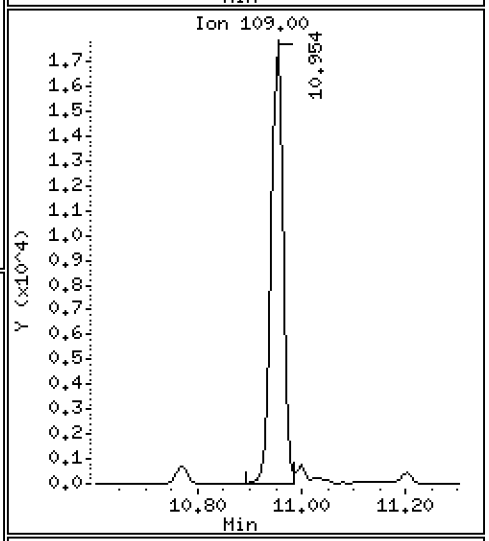


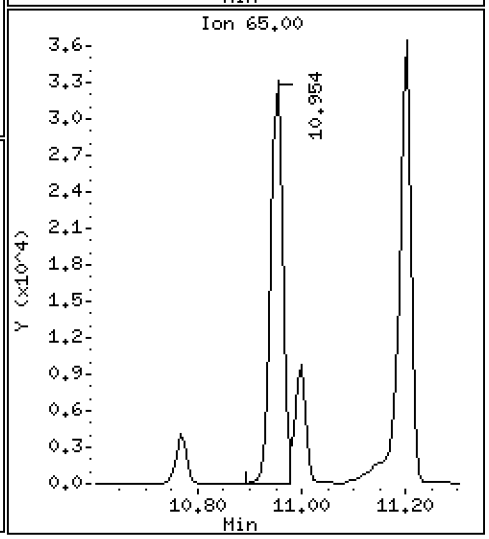












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

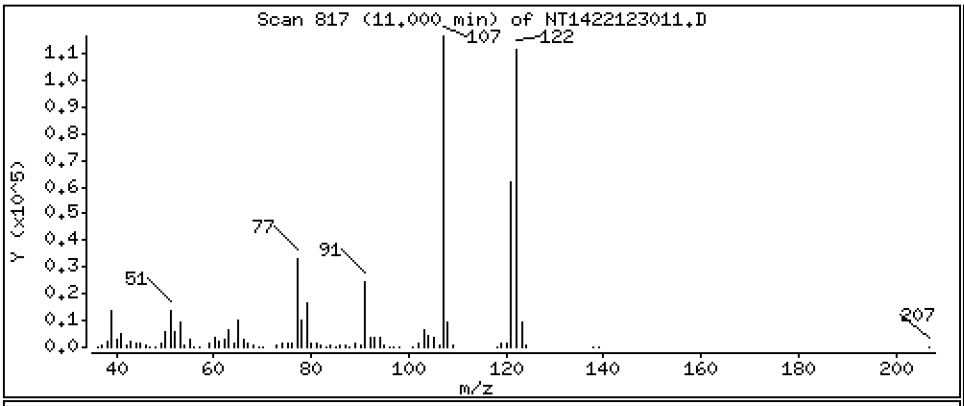
Operator: VTS

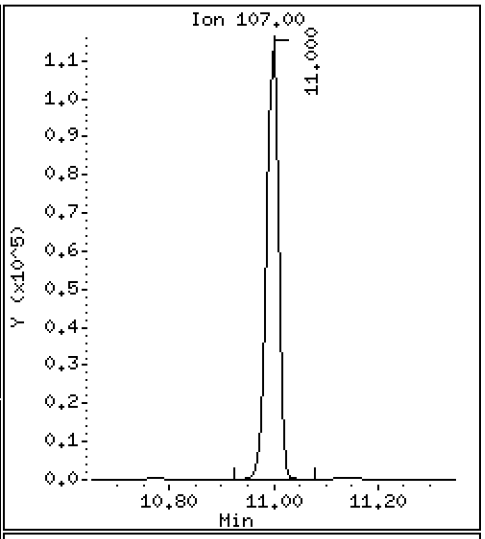
Column phase: ZB-5msi

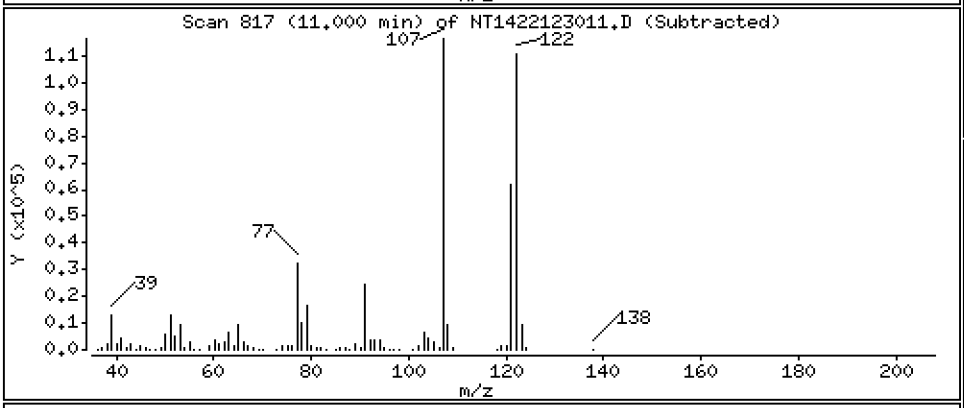
Column diameter: 0.25

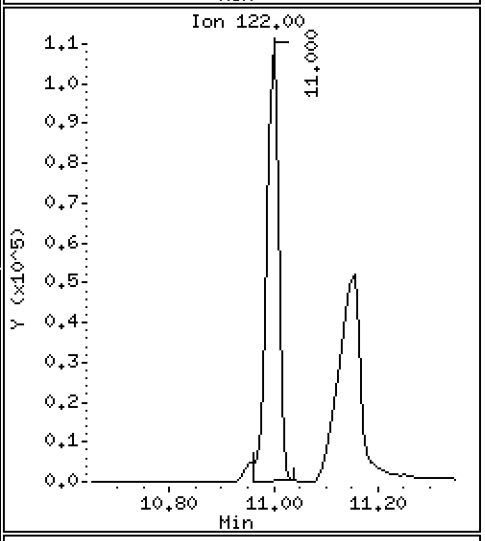
22 2,4-Dimethylphenol

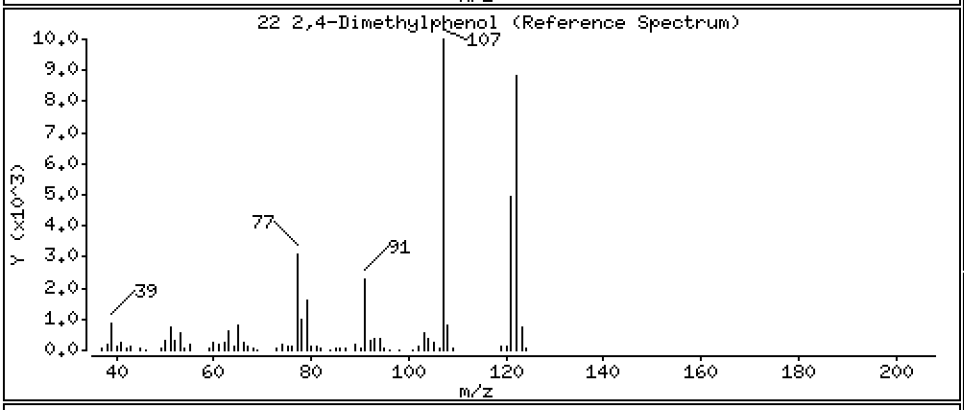
Concentration: 3.663 ug/mL

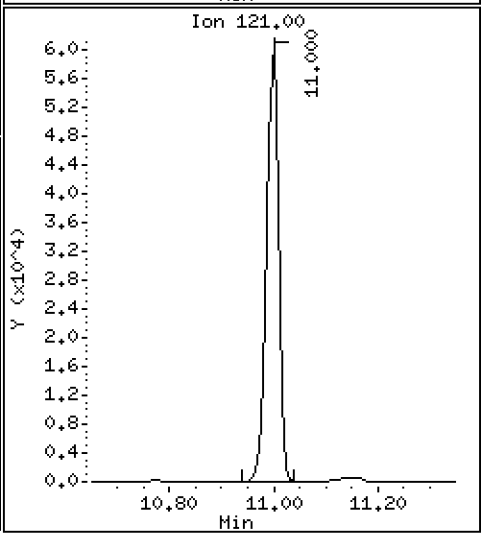


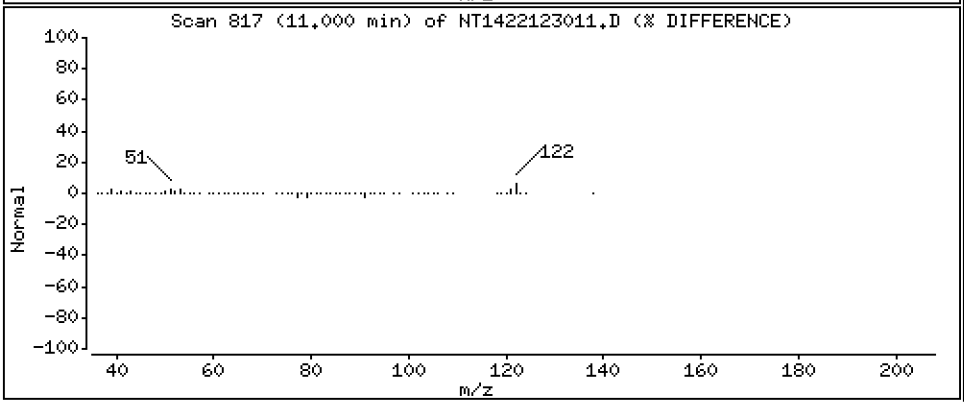












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

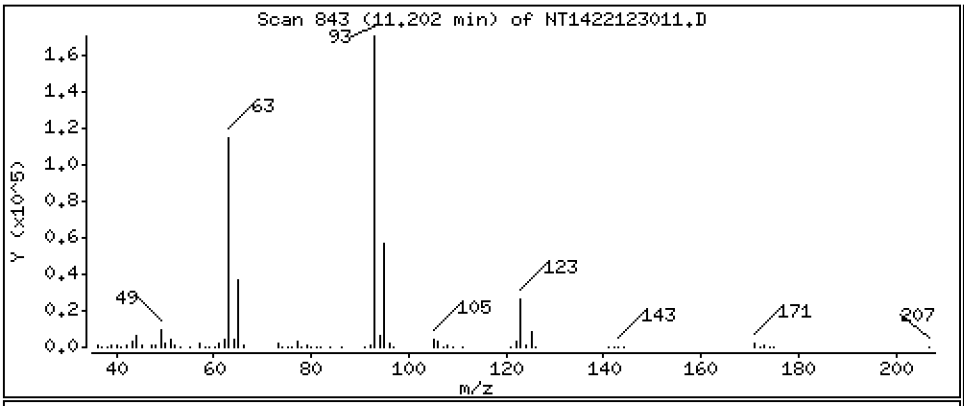
Operator: VTS

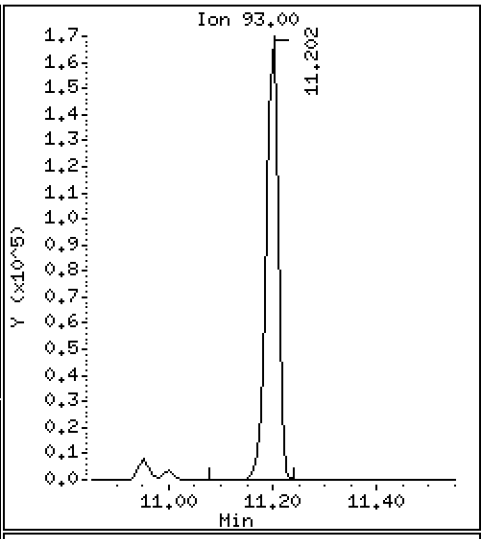
Column phase: ZB-5msi

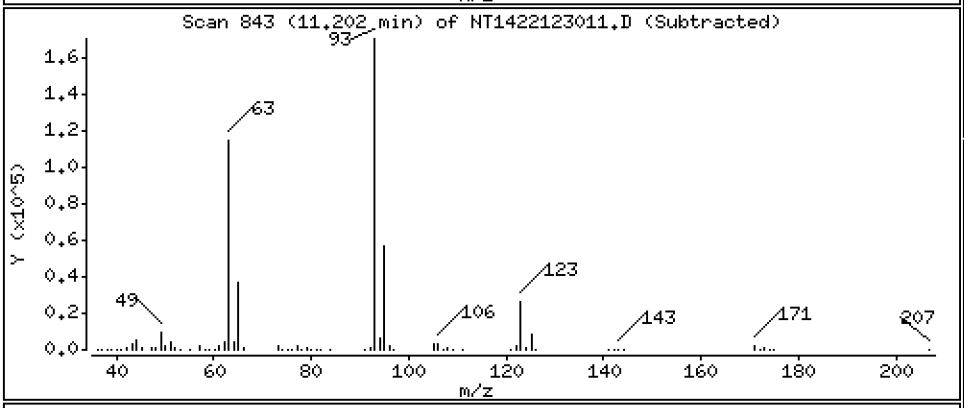
Column diameter: 0.25

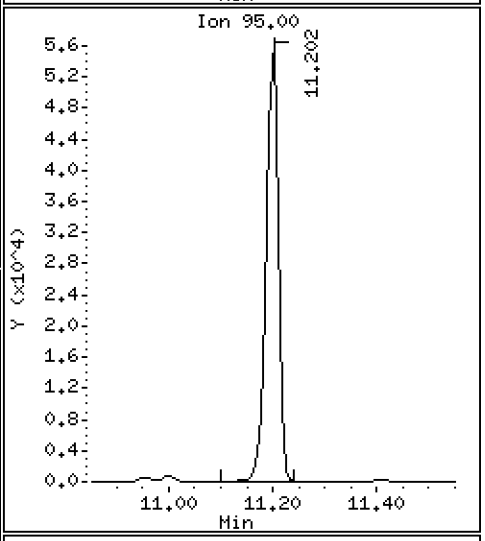
23 Bis(2-Chloroethoxy)methane

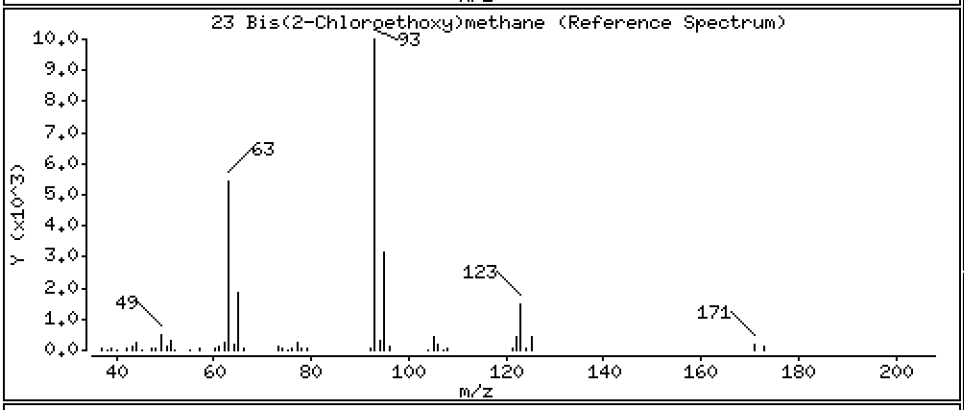
Concentration: 5.670 ug/mL

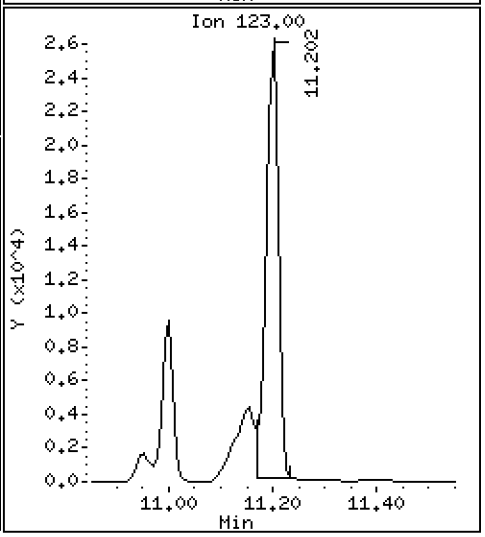


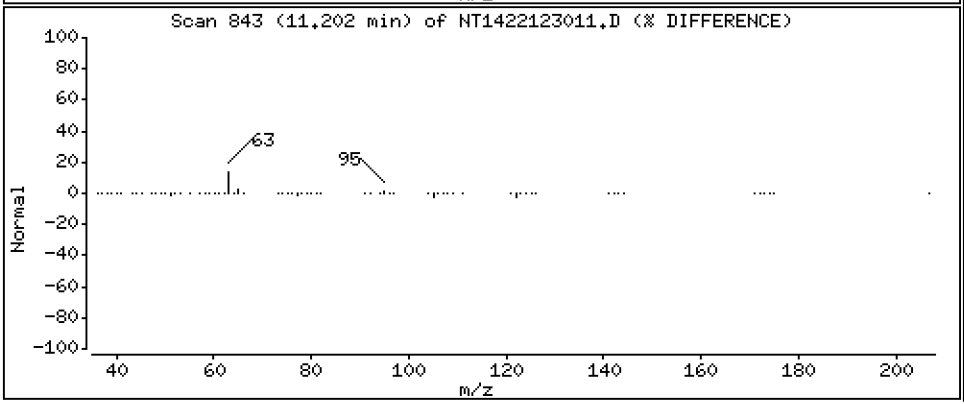












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

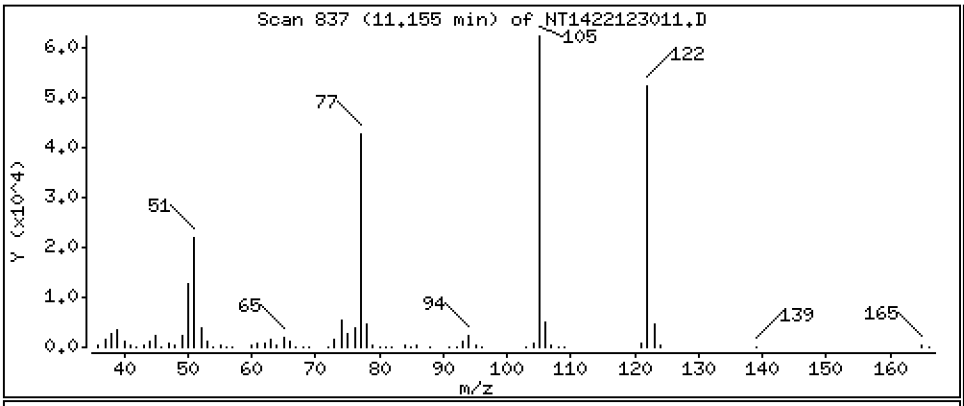
Operator: VTS

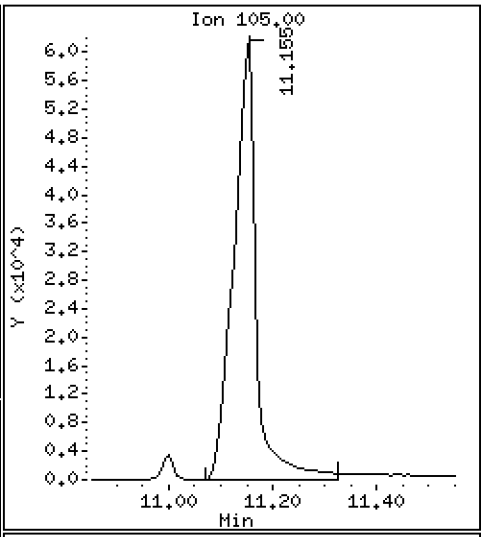
Column phase: ZB-5msi

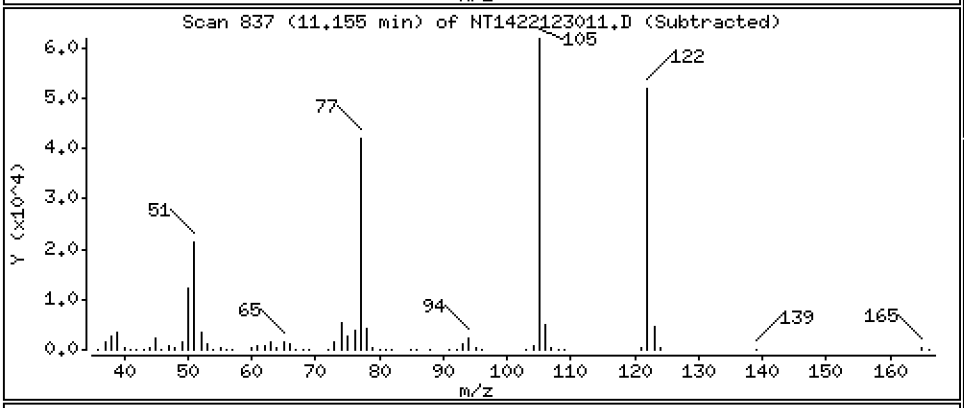
Column diameter: 0.25

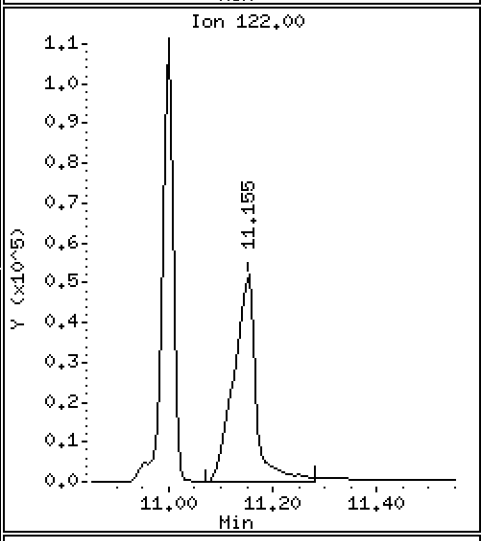
24 Benzoic acid

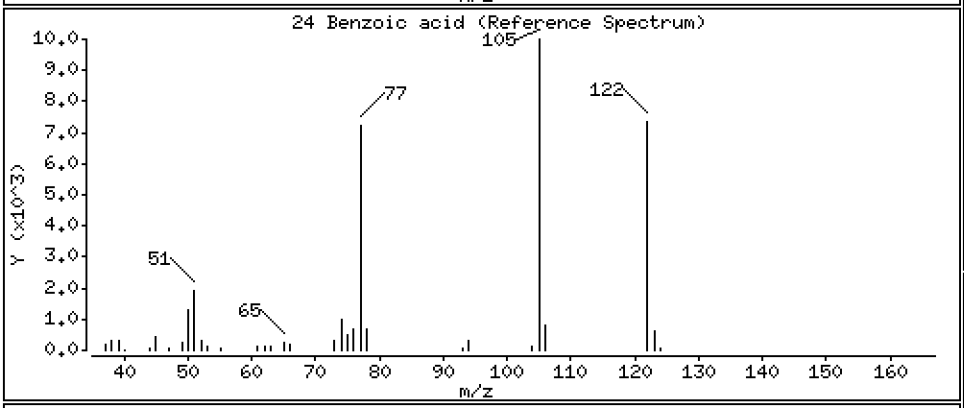
Concentration: 6.385 ug/mL

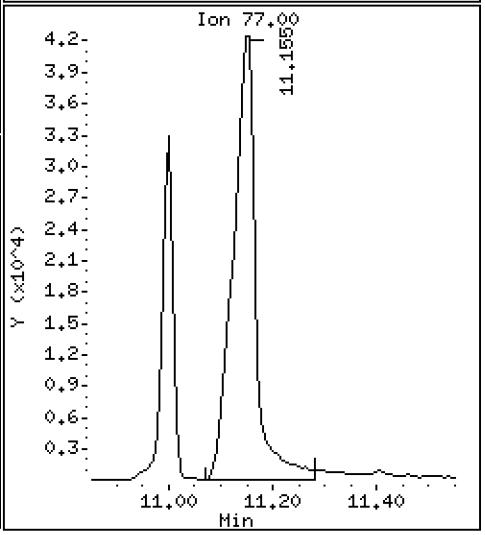


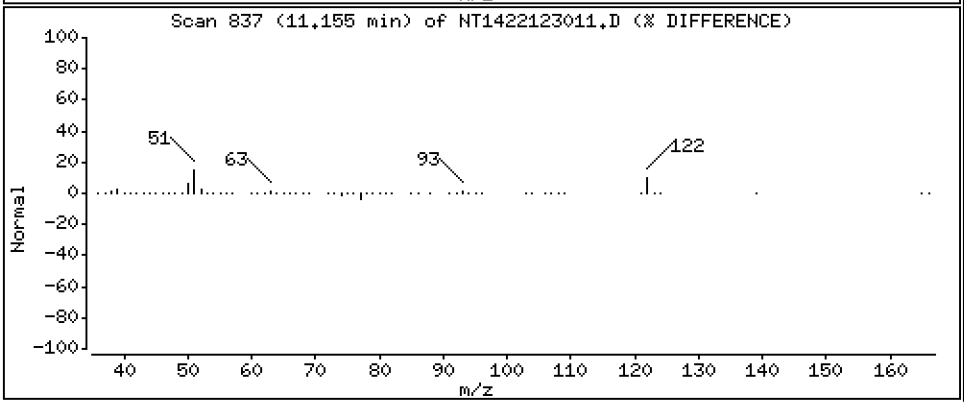












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

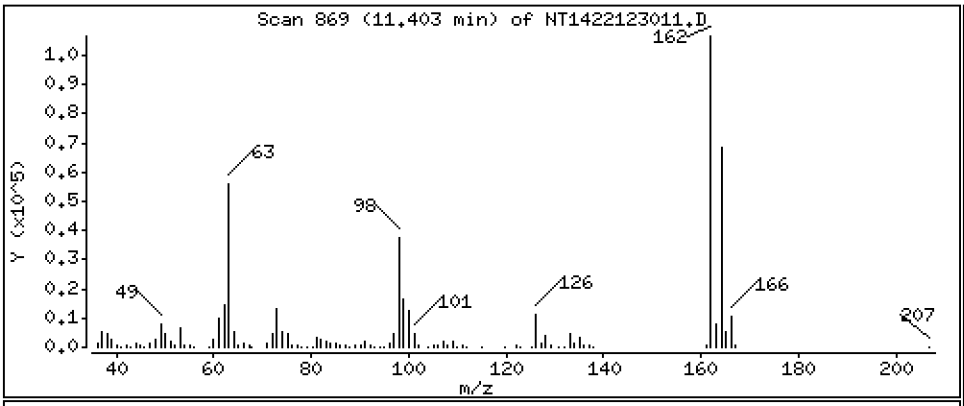
Operator: VTS

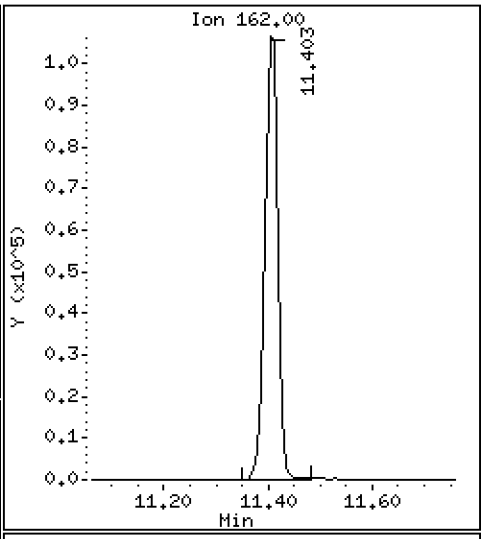
Column phase: ZB-5msi

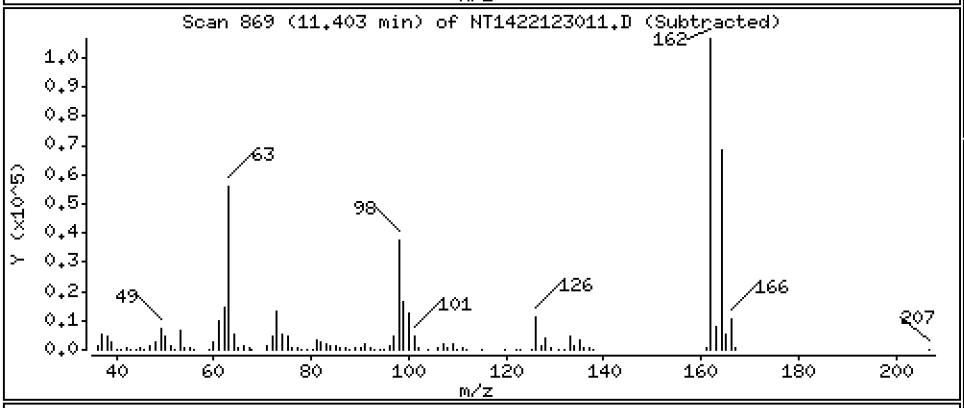
Column diameter: 0.25

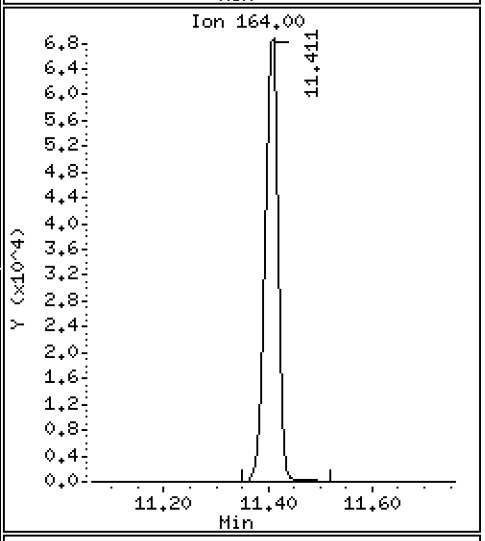
25 2,4-Dichlorophenol

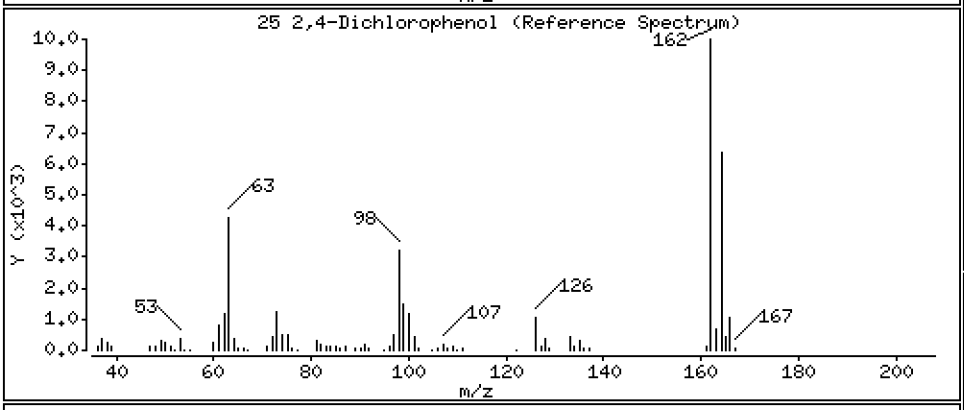
Concentration: 4.388 ug/mL

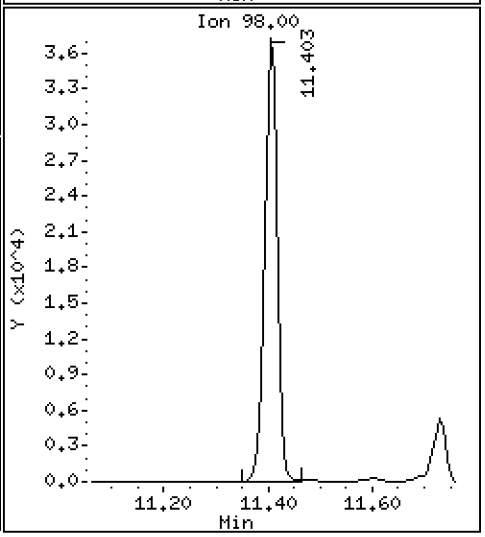


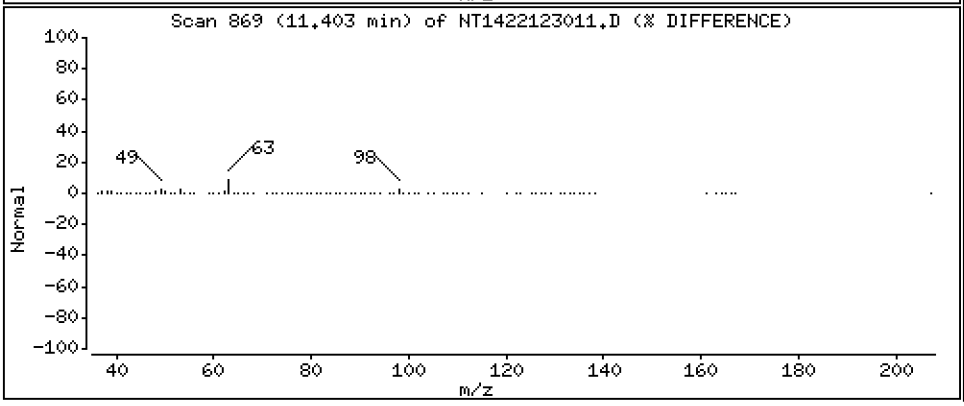












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

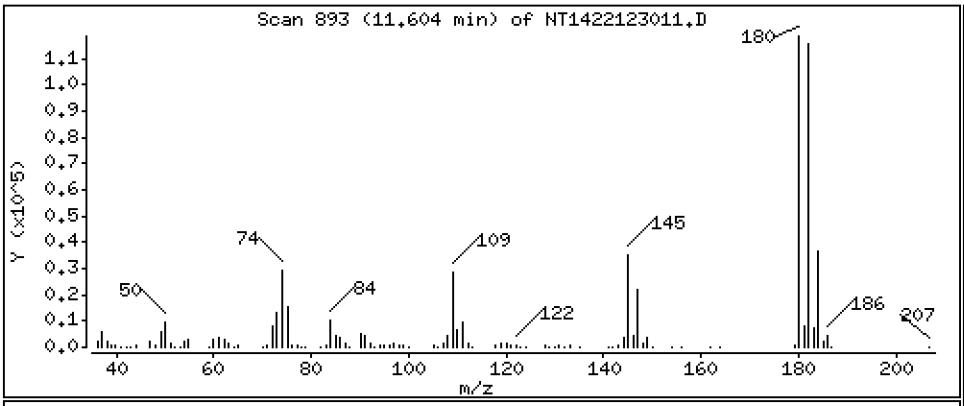
Operator: VTS

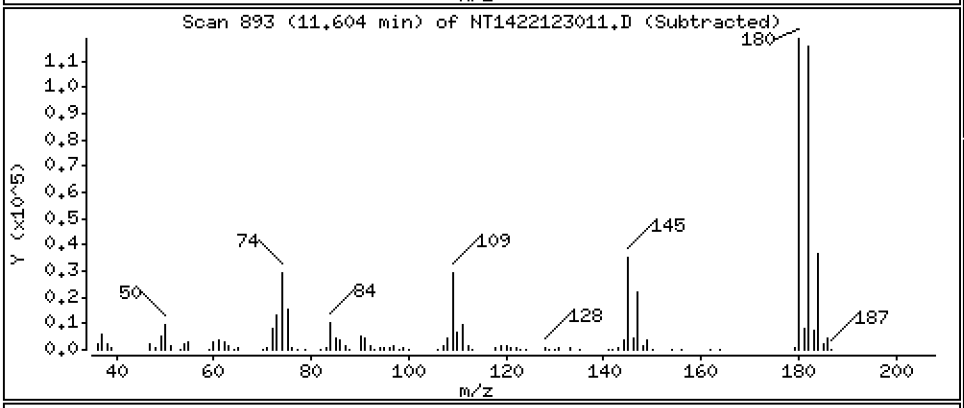
Column phase: ZB-5msi

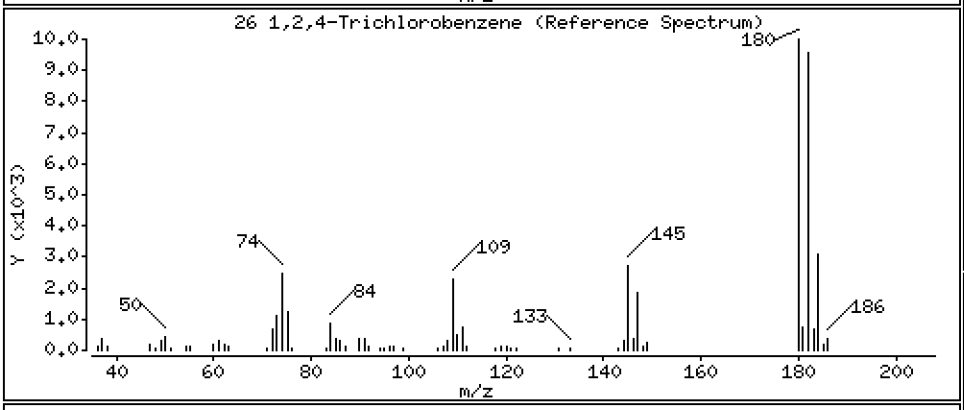
Column diameter: 0.25

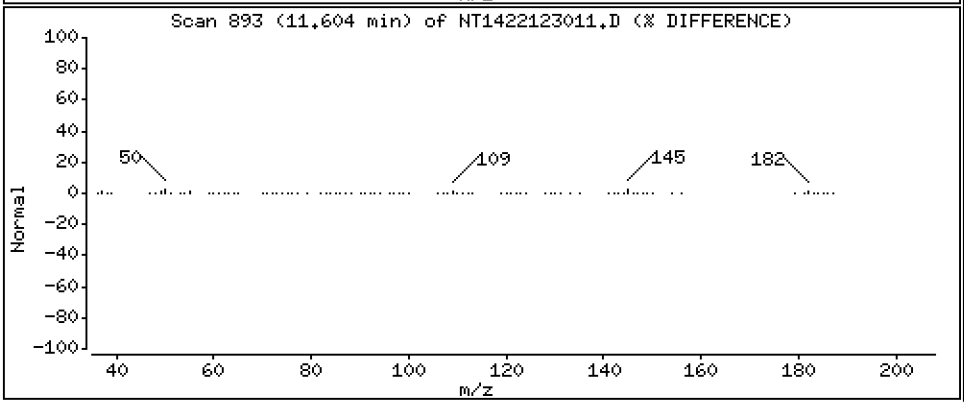
26 1,2,4-Trichlorobenzene

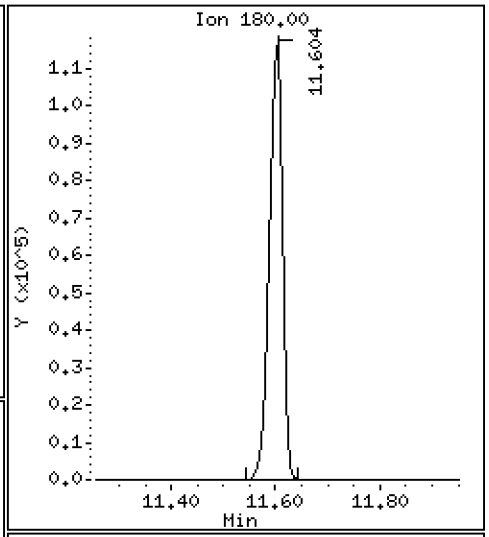
Concentration: 4.574 ug/mL

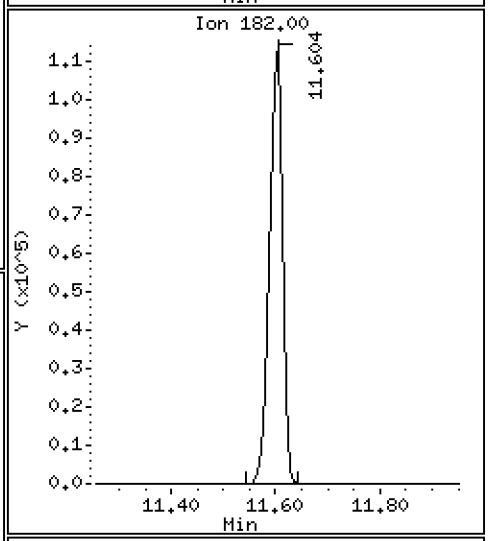


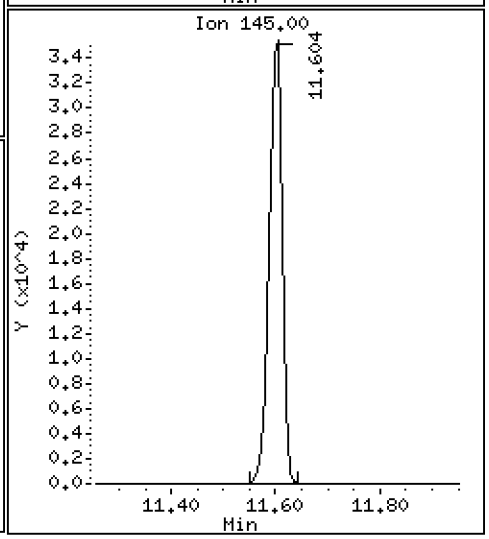












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

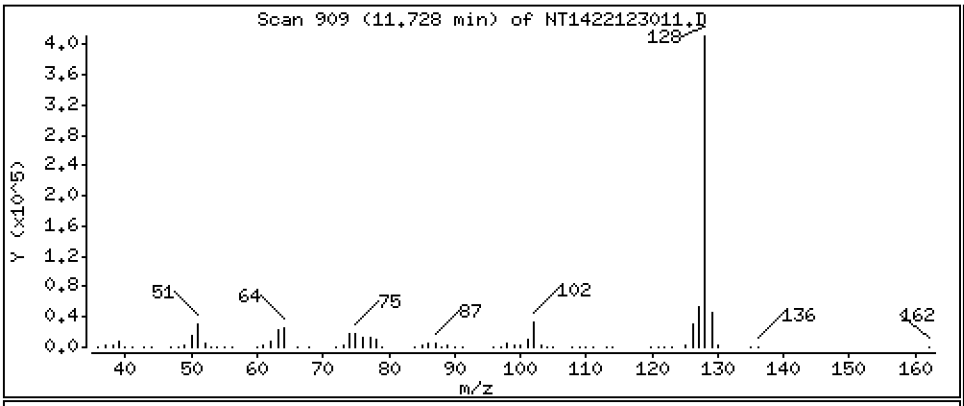
Operator: VTS

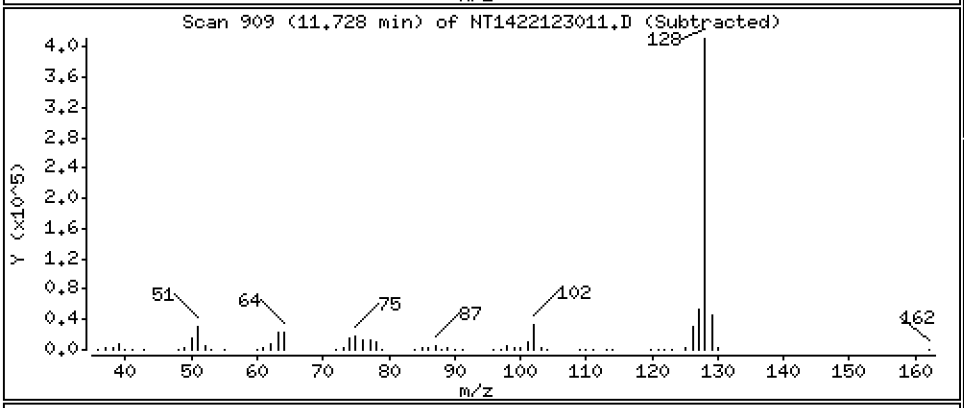
Column phase: ZB-5msi

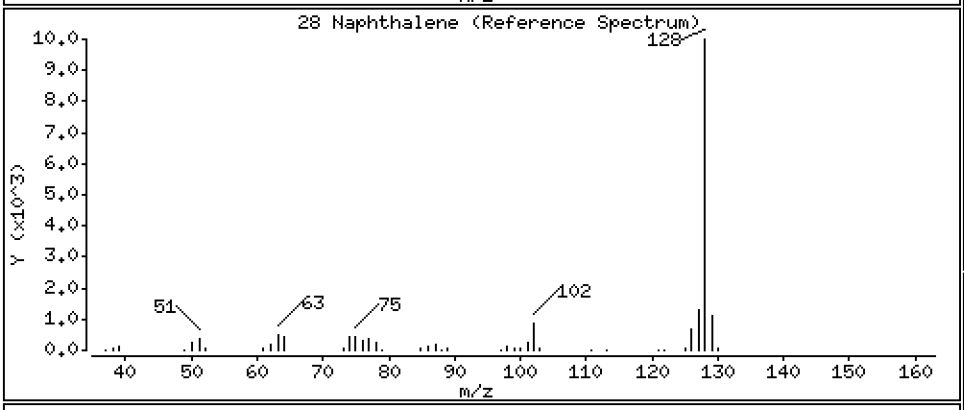
Column diameter: 0.25

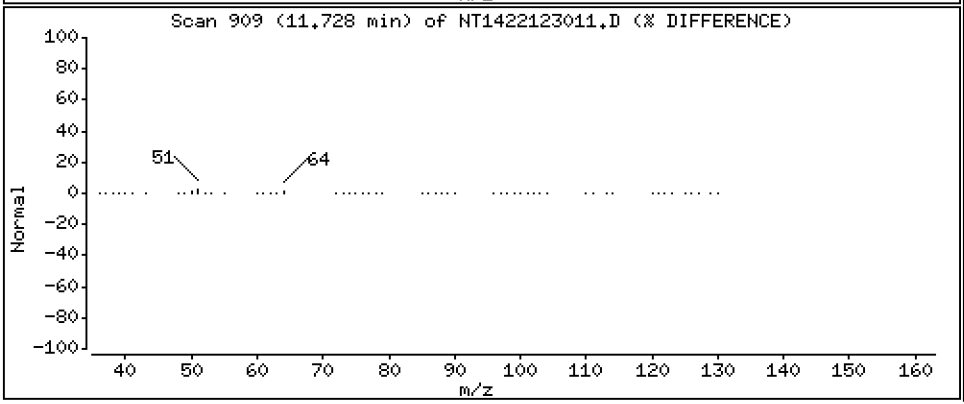
28 Naphthalene

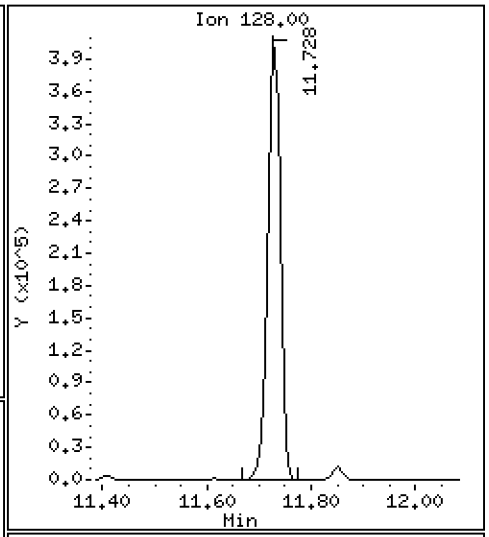
Concentration: 4.812 ug/mL

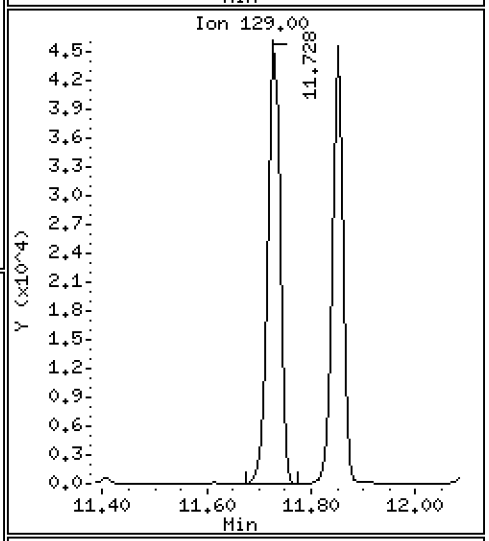


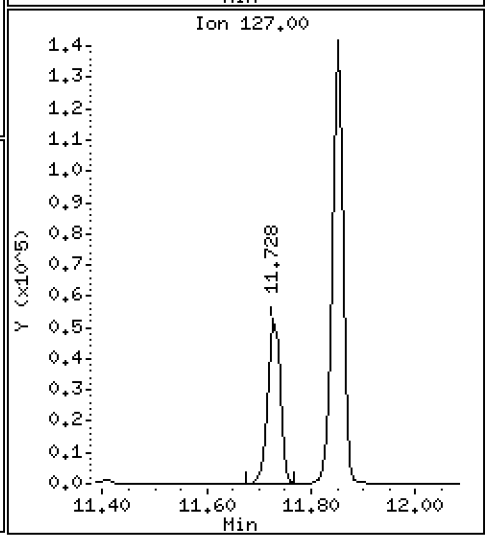












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

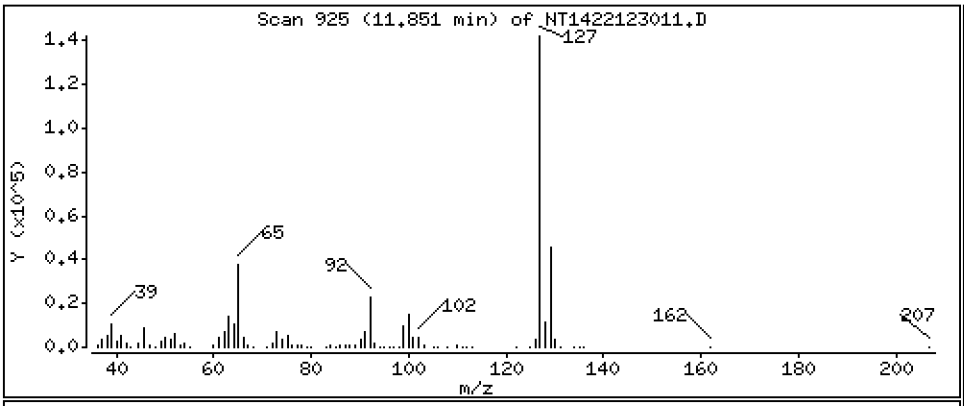
Operator: VTS

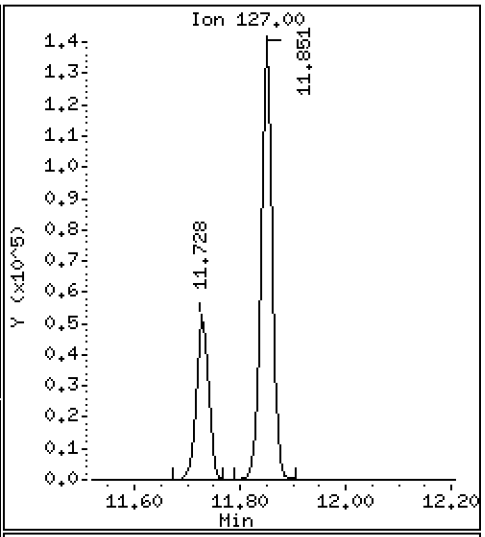
Column phase: ZB-5msi

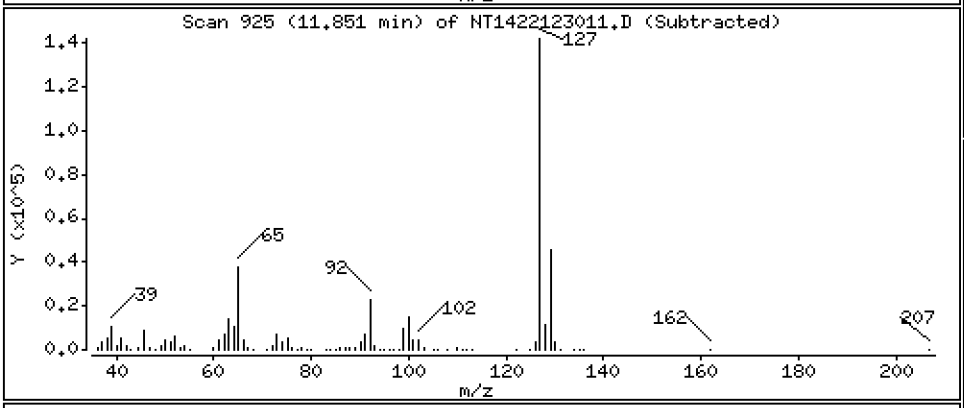
Column diameter: 0.25

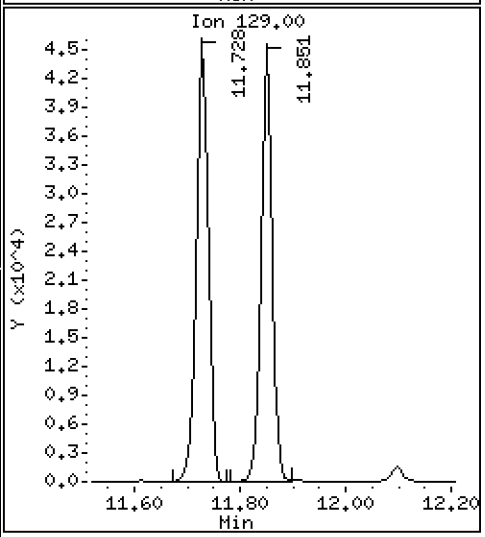
29 4-Chloroaniline

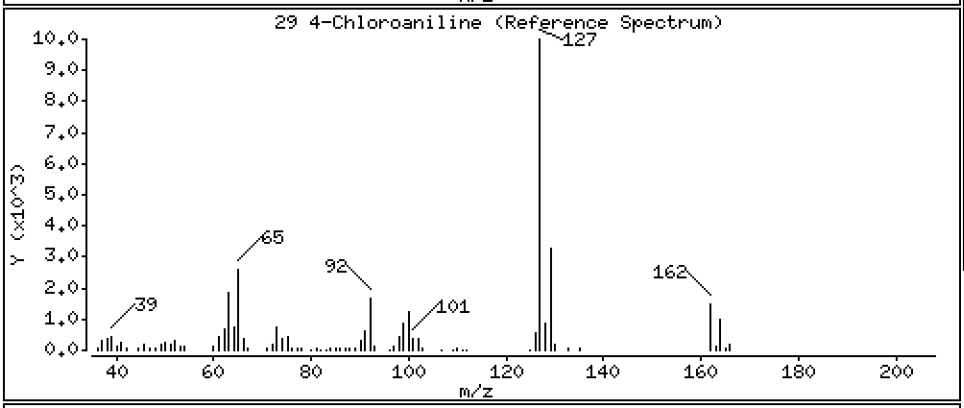
Concentration: 3.849 ug/mL

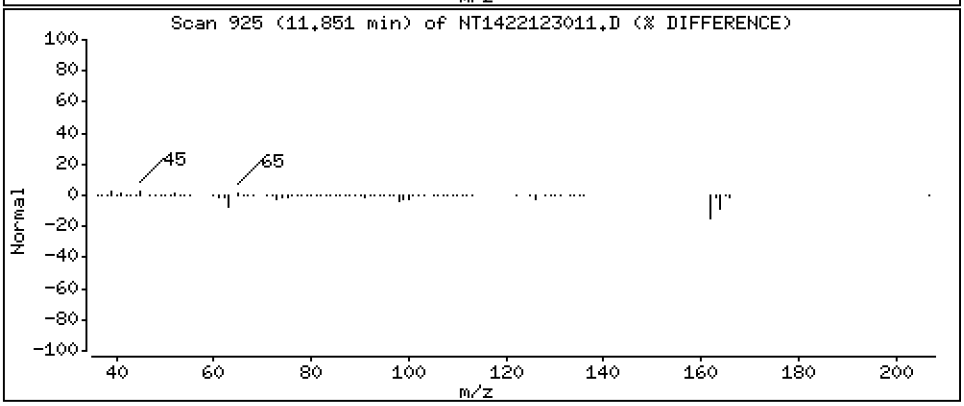












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

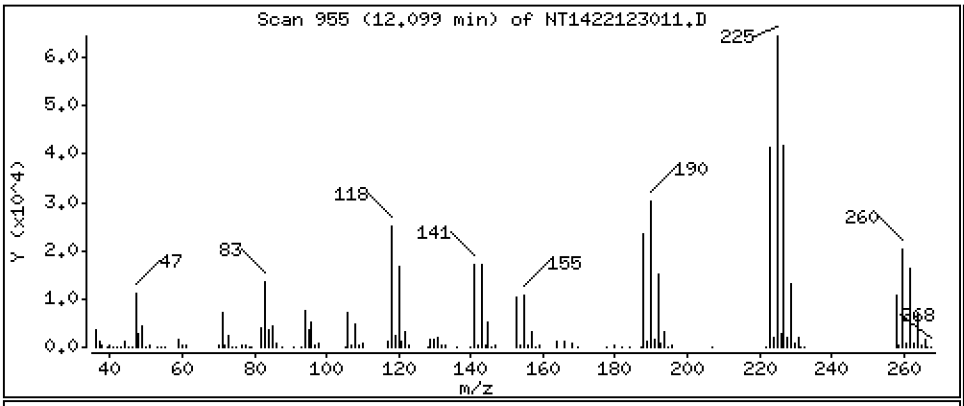
Operator: VTS

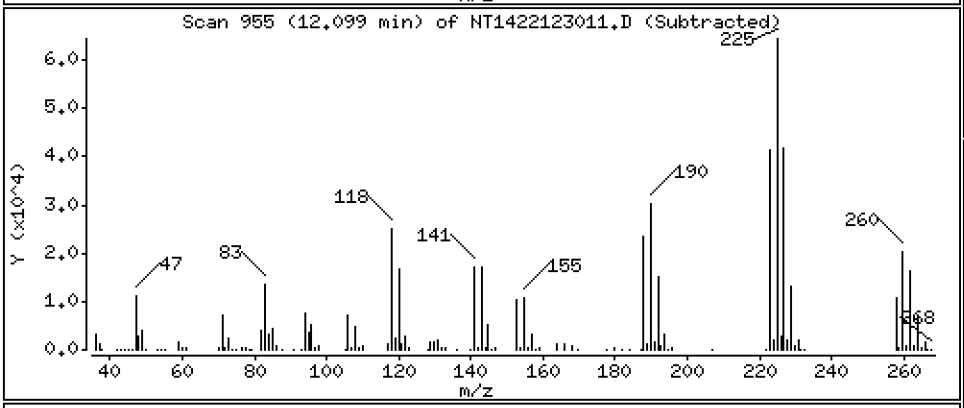
Column phase: ZB-5msi

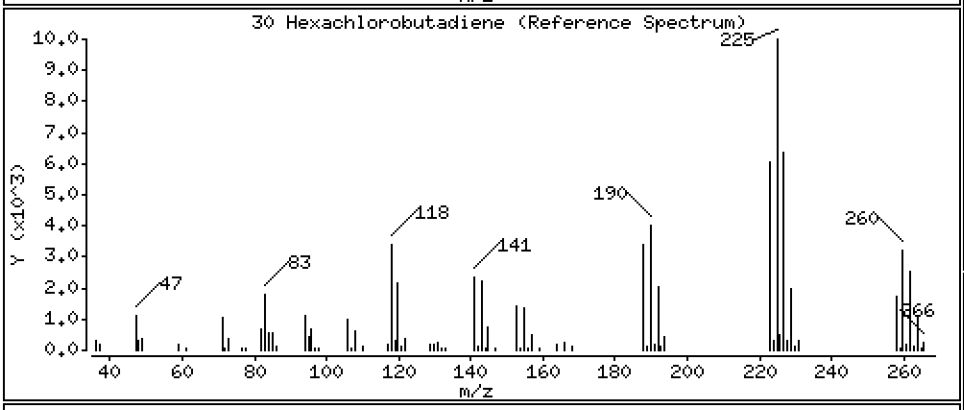
Column diameter: 0.25

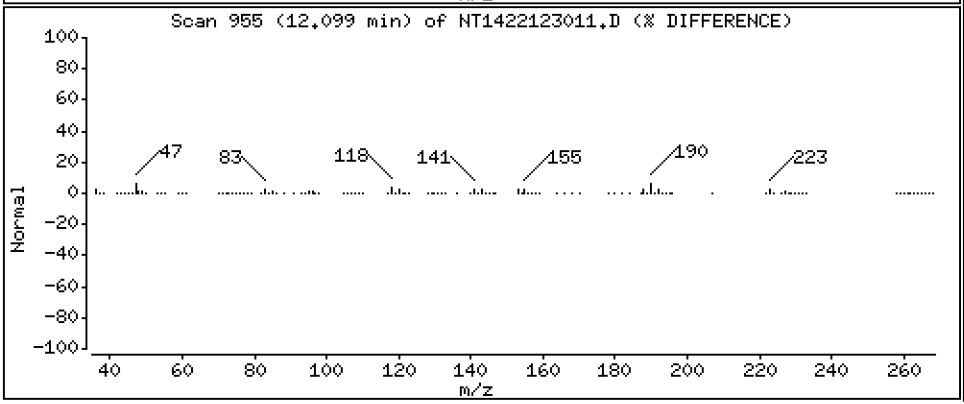
30 Hexachlorobutadiene

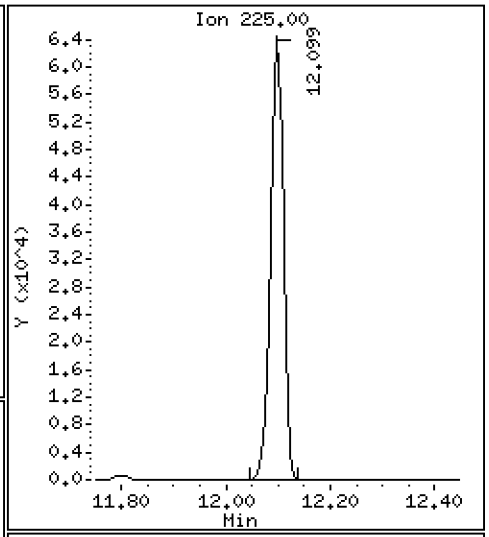
Concentration: 4.823 ug/mL

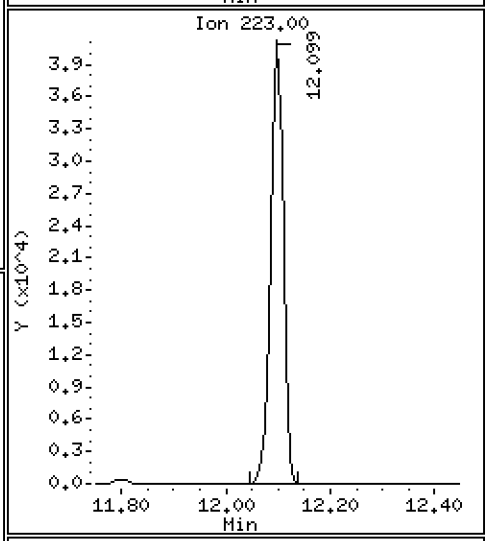


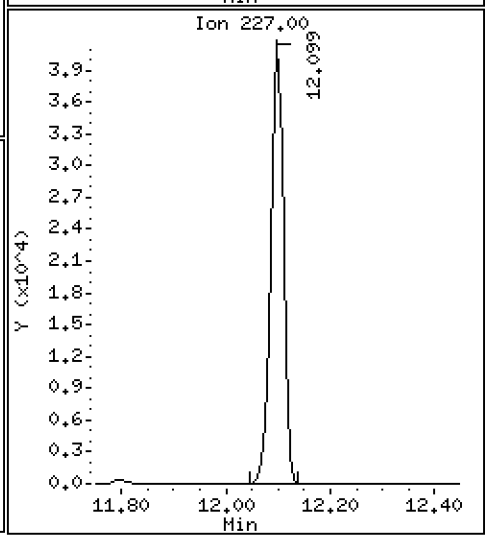












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

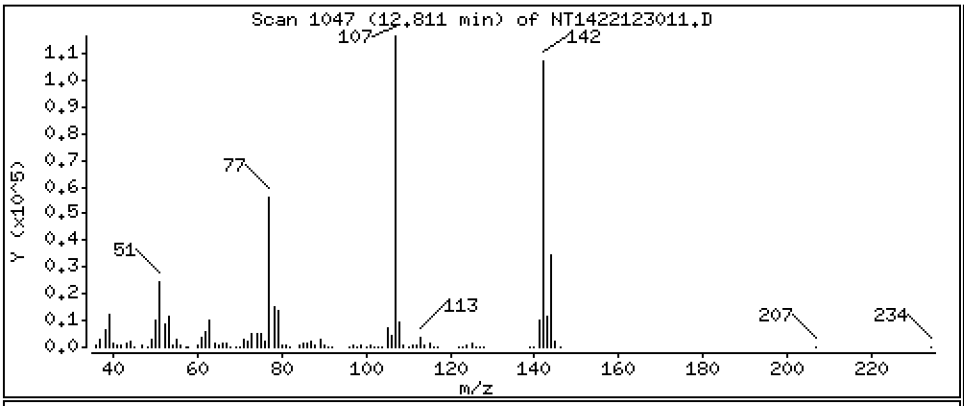
Operator: VTS

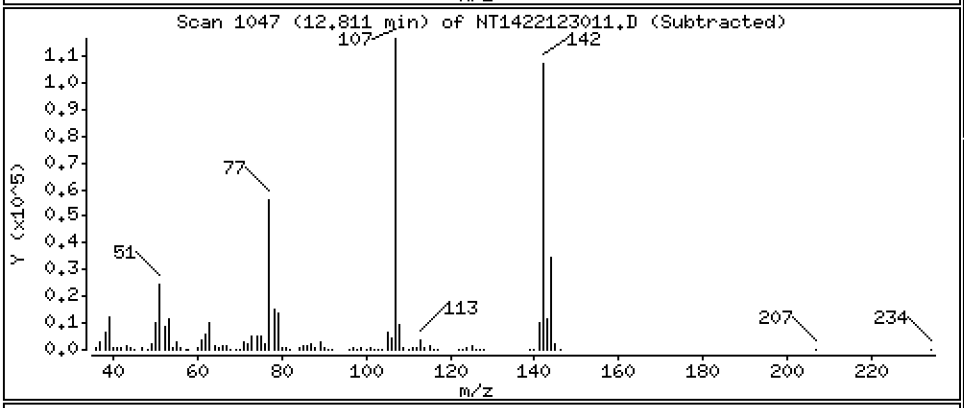
Column phase: ZB-5msi

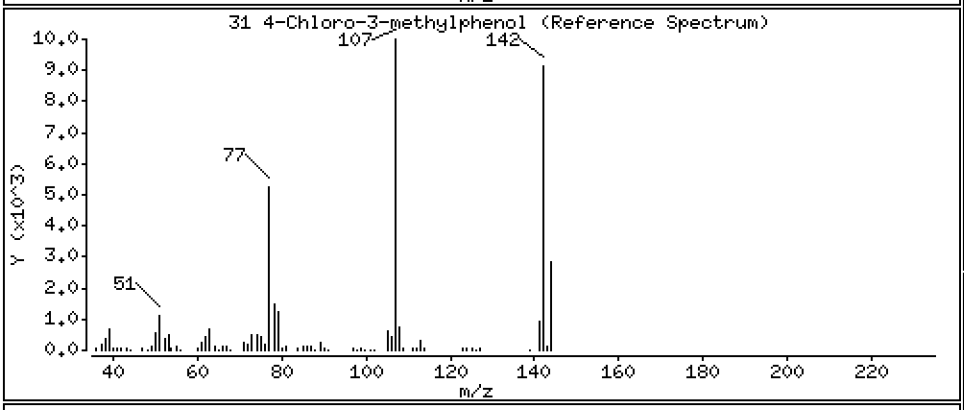
Column diameter: 0.25

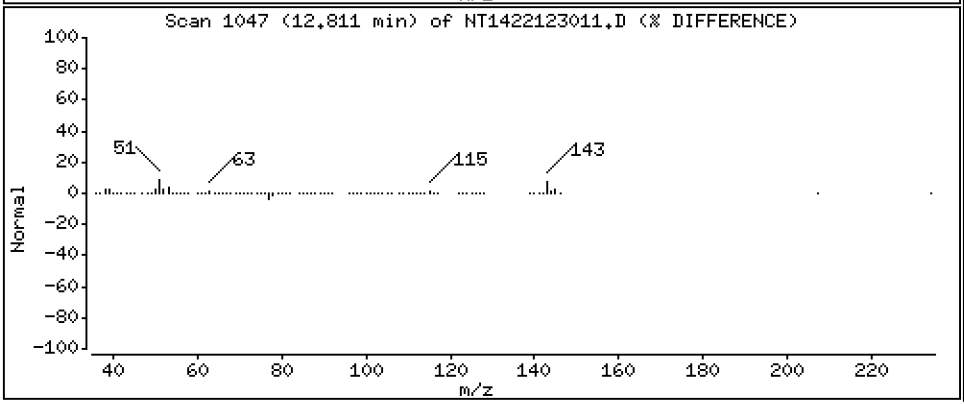
31 4-Chloro-3-methylphenol

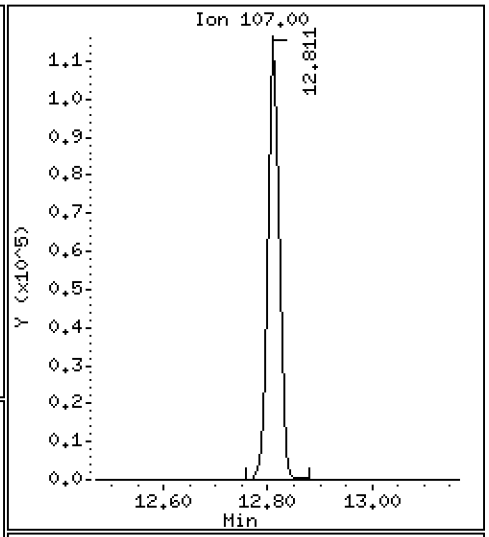
Concentration: 4.522 ug/mL

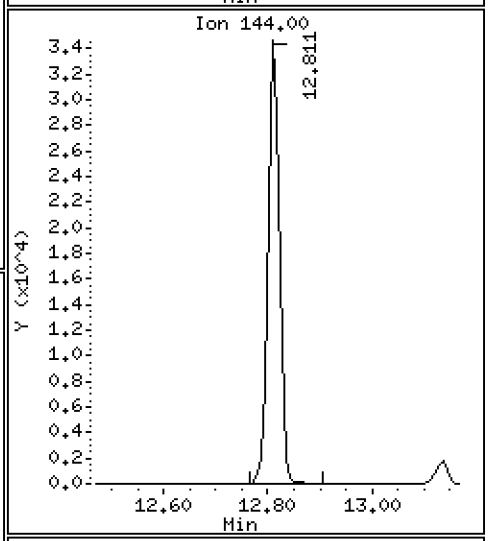


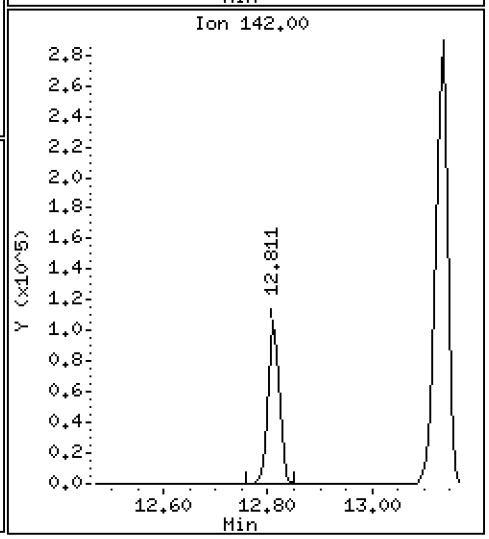












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

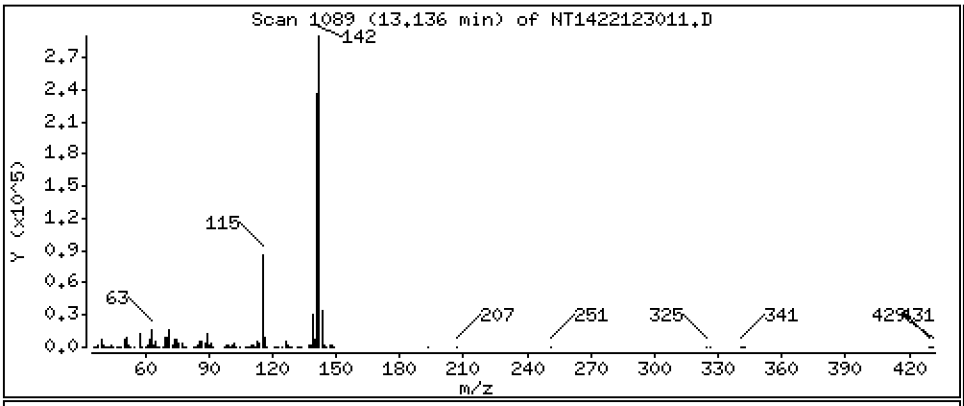
Operator: VTS

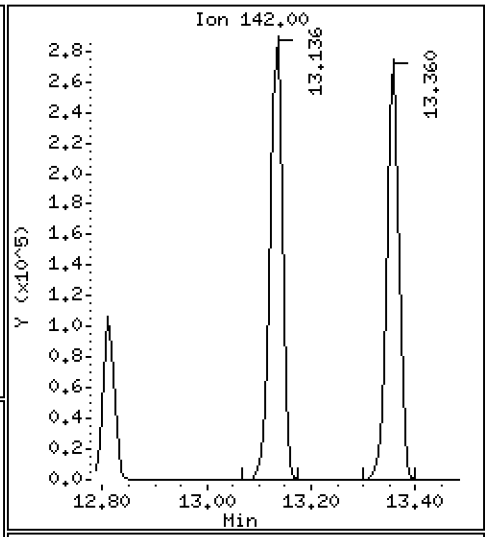
Column phase: ZB-5msi

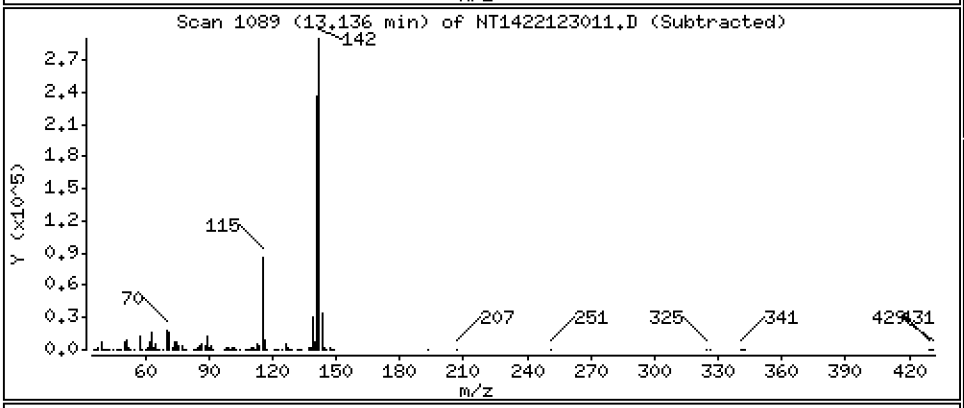
Column diameter: 0.25

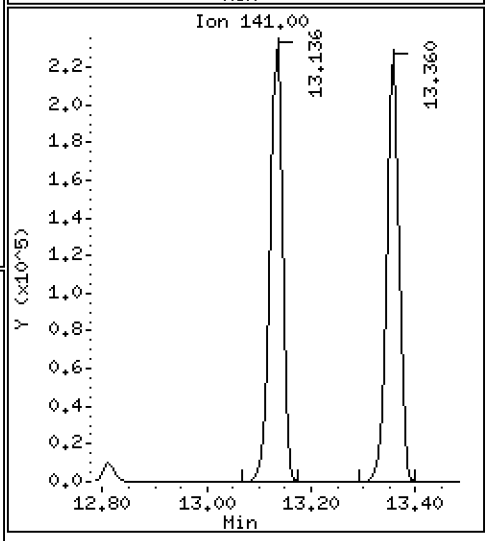
32 2-Methylnaphthalene

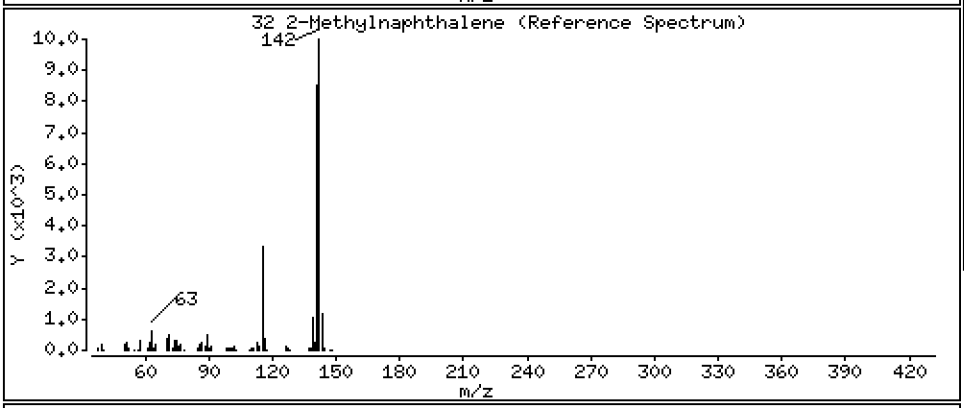
Concentration: 4.616 ug/mL

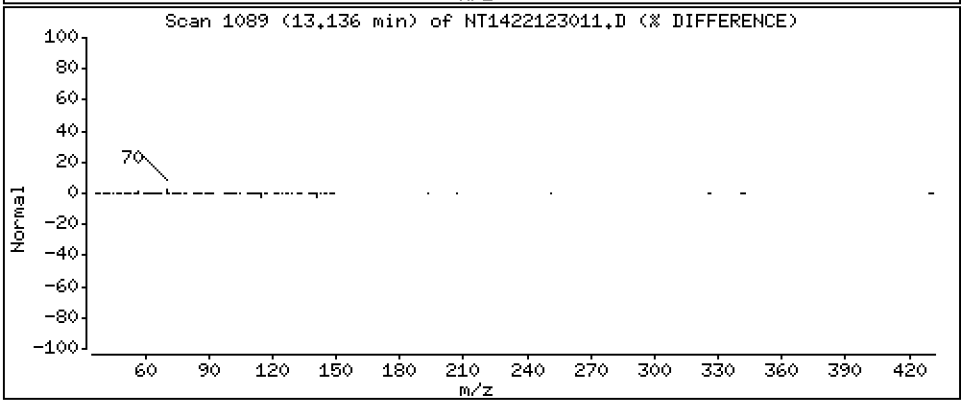












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

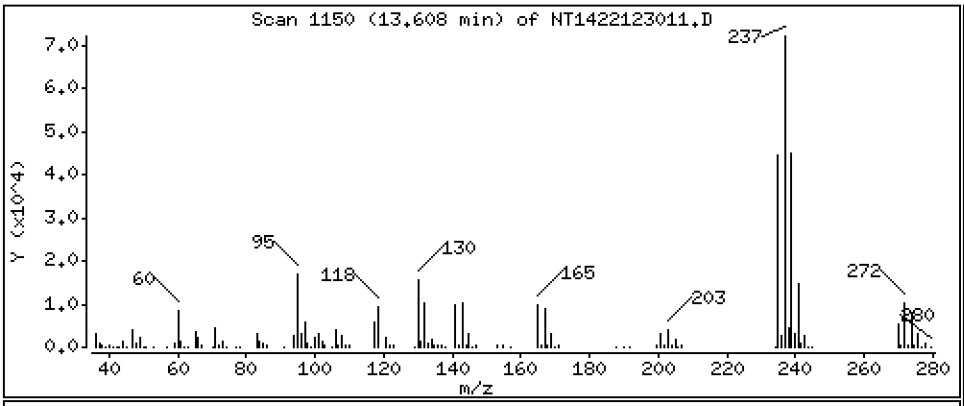
Operator: VTS

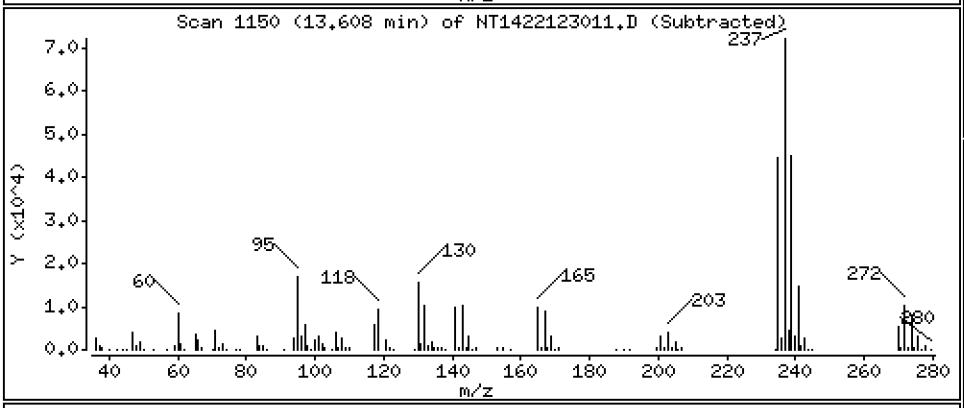
Column phase: ZB-5msi

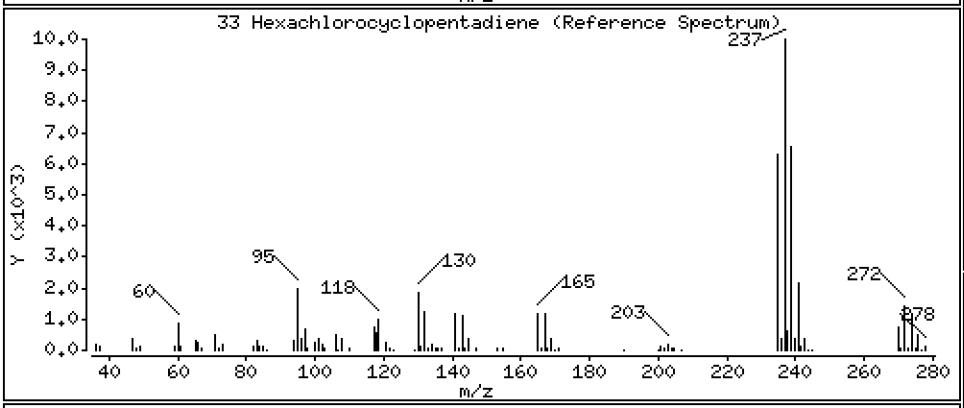
Column diameter: 0.25

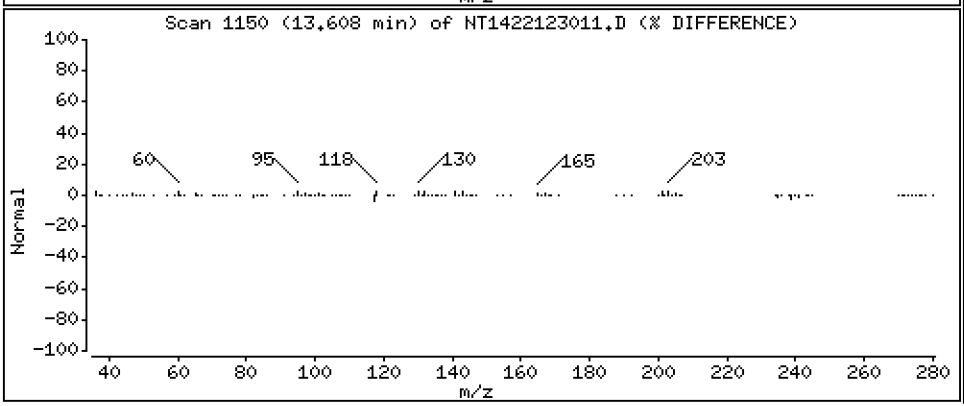
33 Hexachlorocyclopentadiene

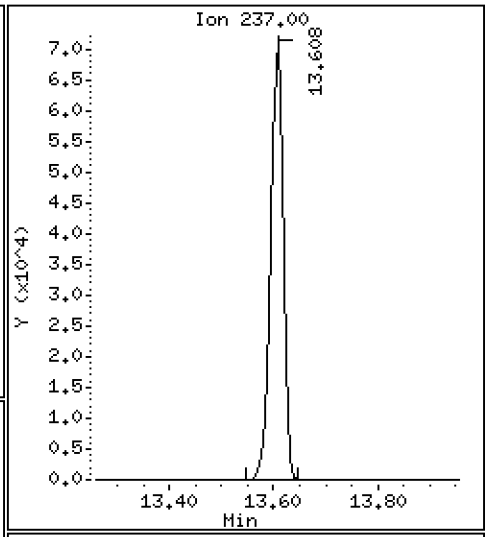
Concentration: 5.081 ug/mL

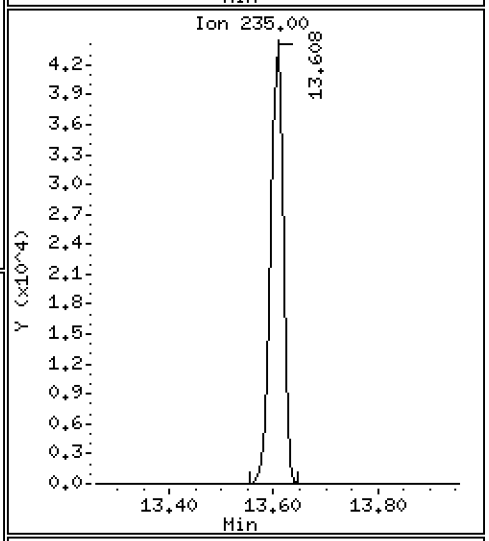


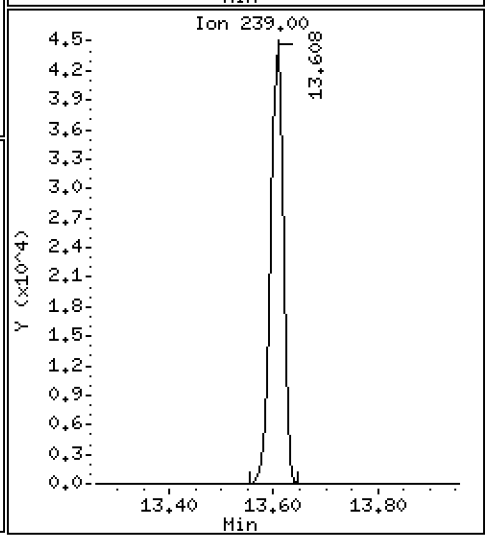












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

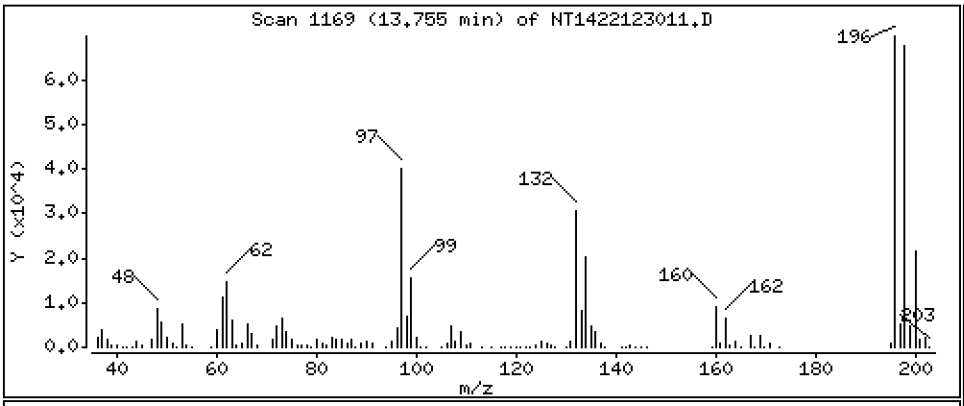
Operator: VTS

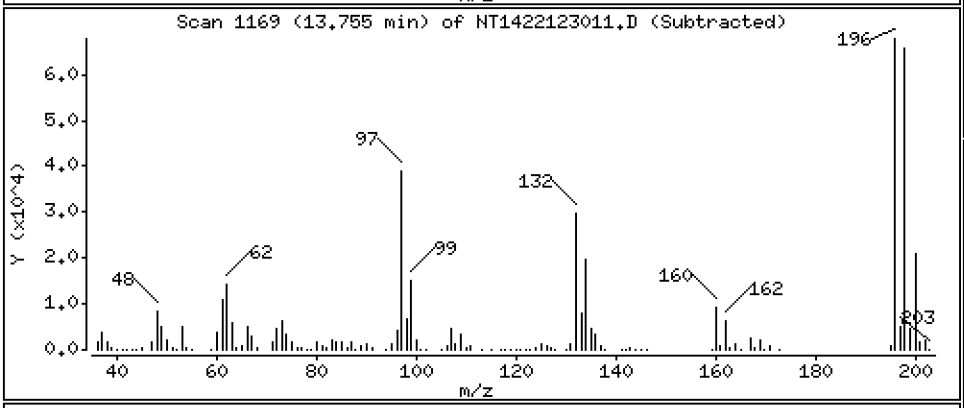
Column phase: ZB-5msi

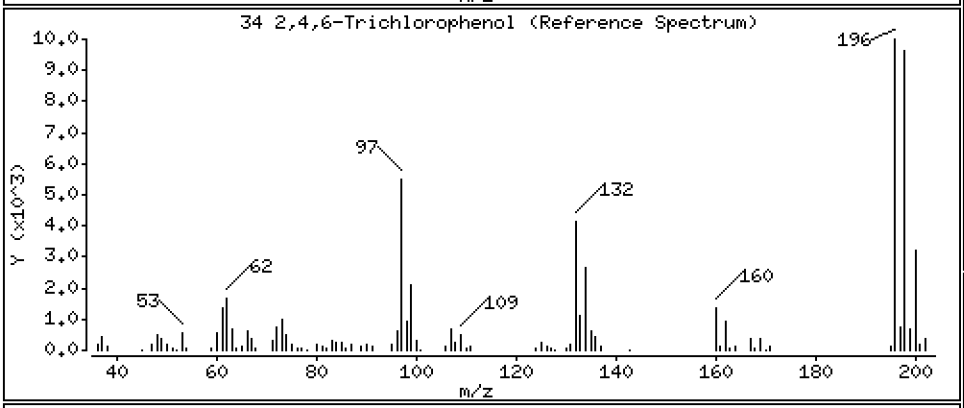
Column diameter: 0.25

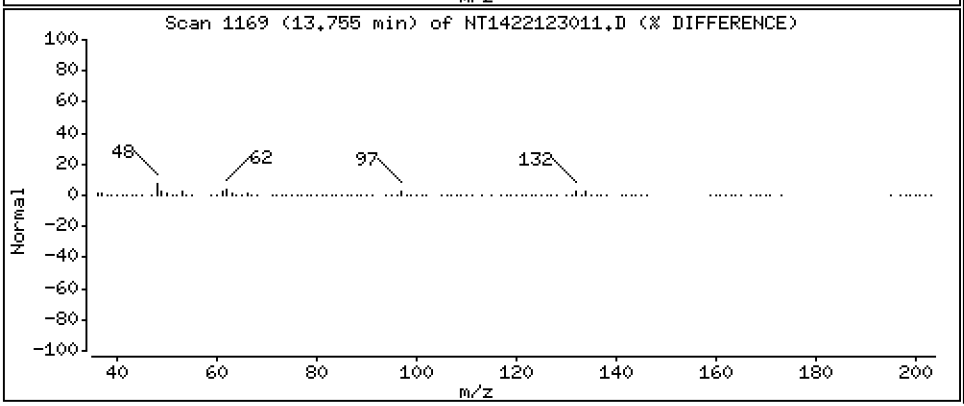
34 2,4,6-Trichlorophenol

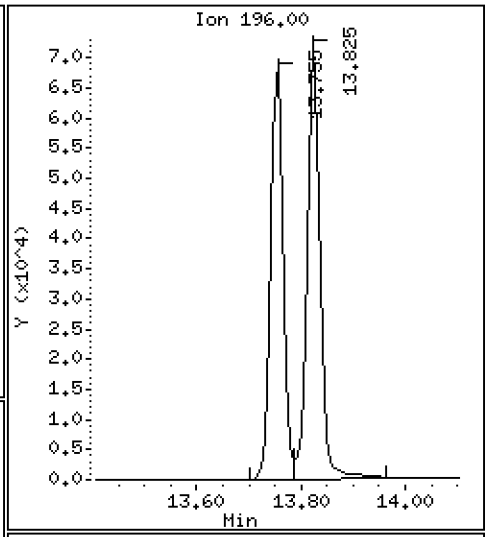
Concentration: 4.407 ug/mL

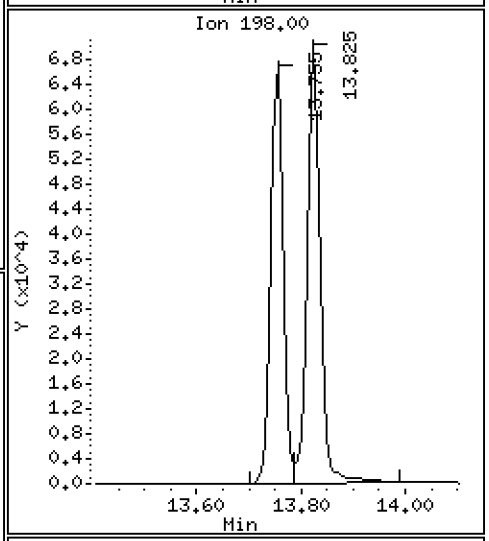


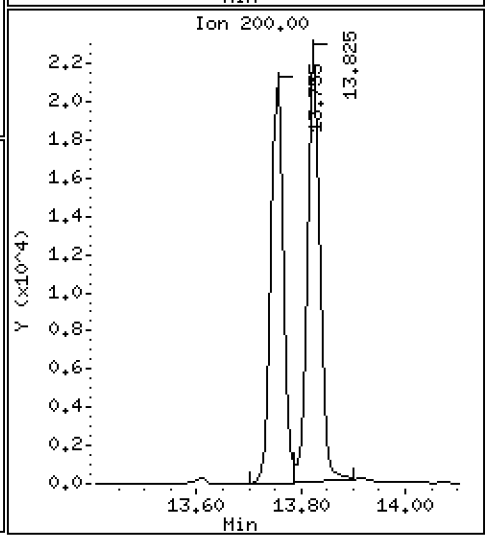












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

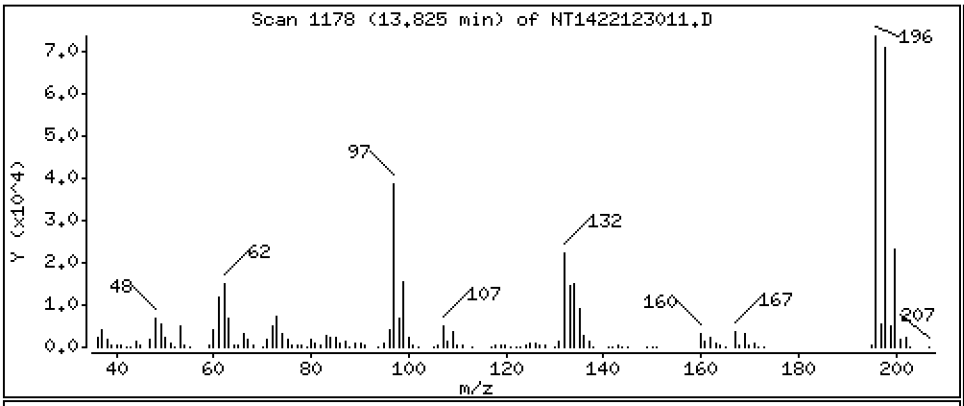
Operator: VTS

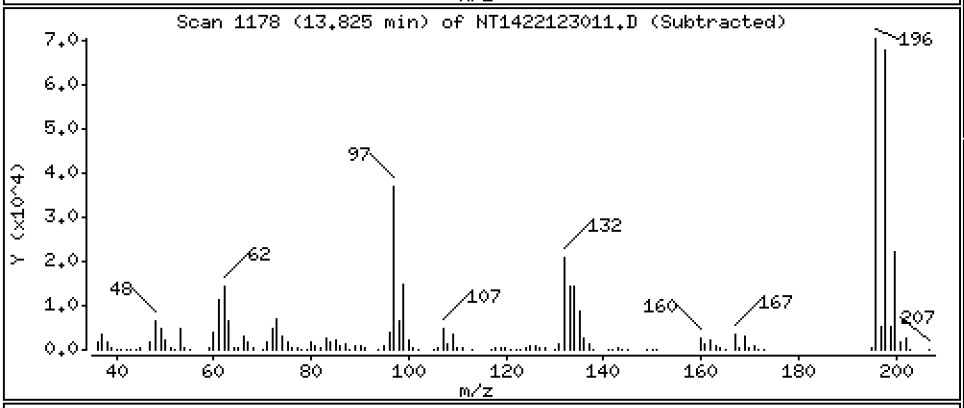
Column phase: ZB-5msi

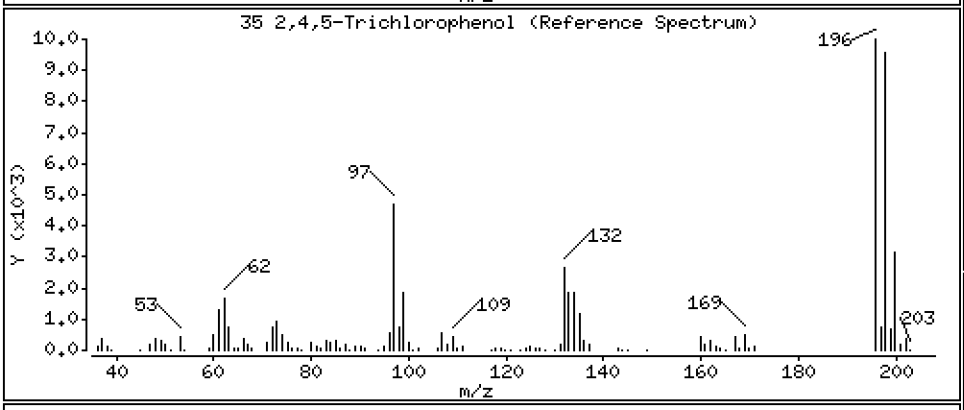
Column diameter: 0.25

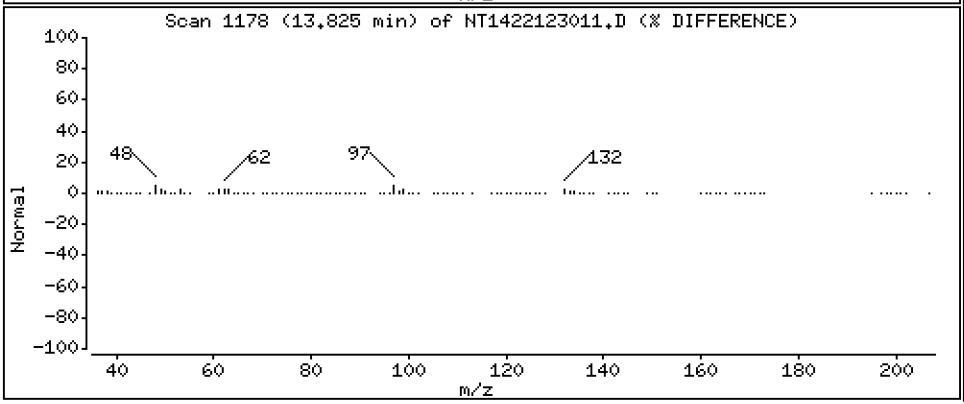
35 2,4,5-Trichlorophenol

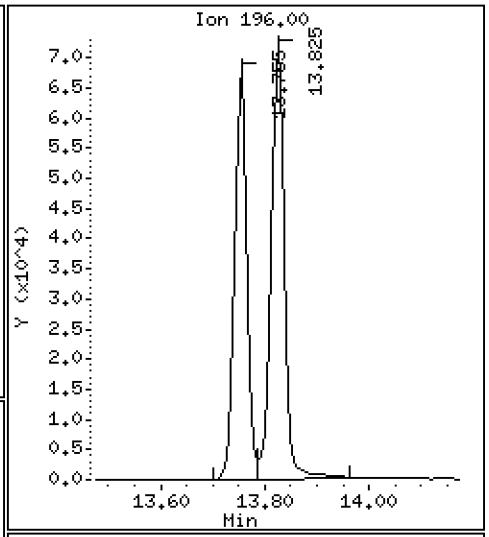
Concentration: 4.278 ug/mL

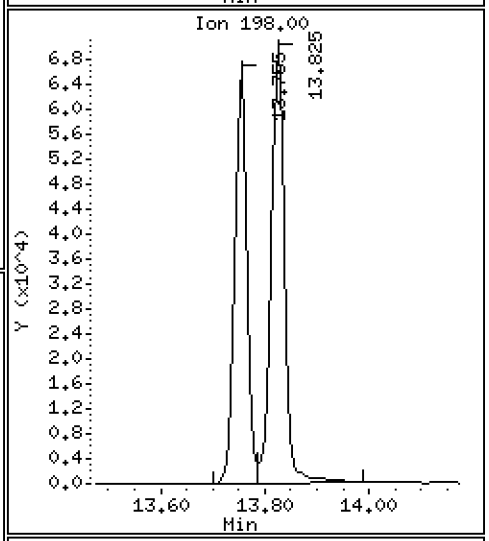


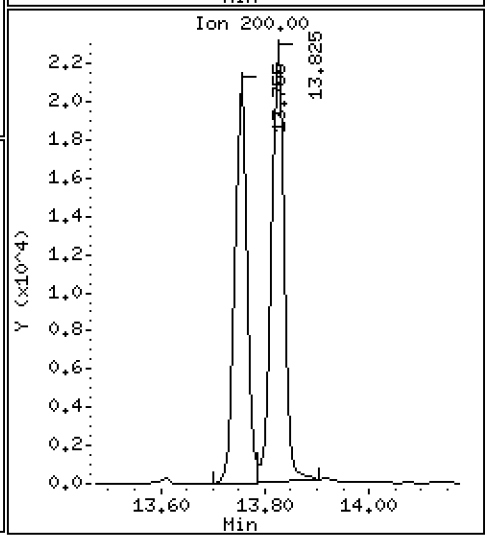












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

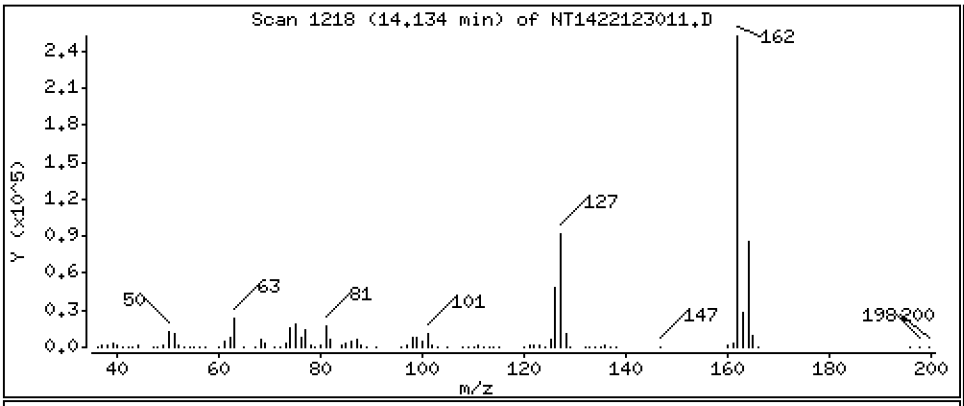
Operator: VTS

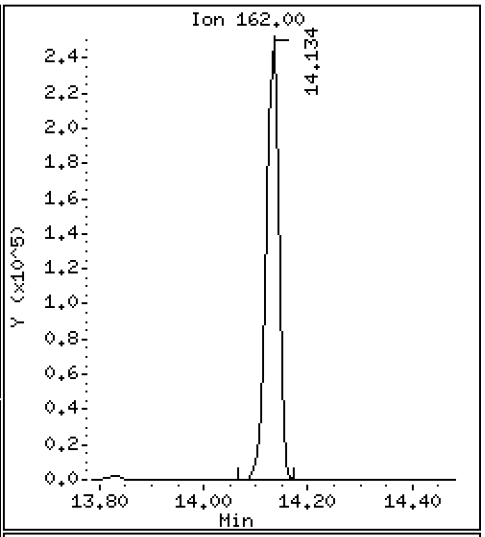
Column phase: ZB-5msi

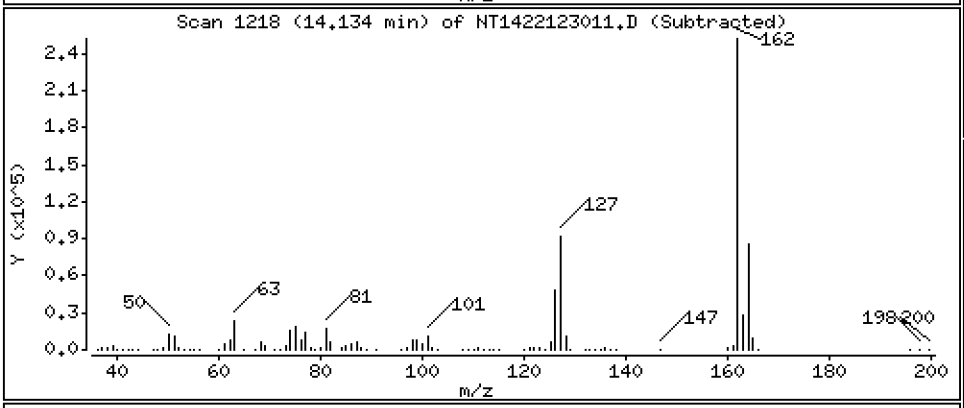
Column diameter: 0.25

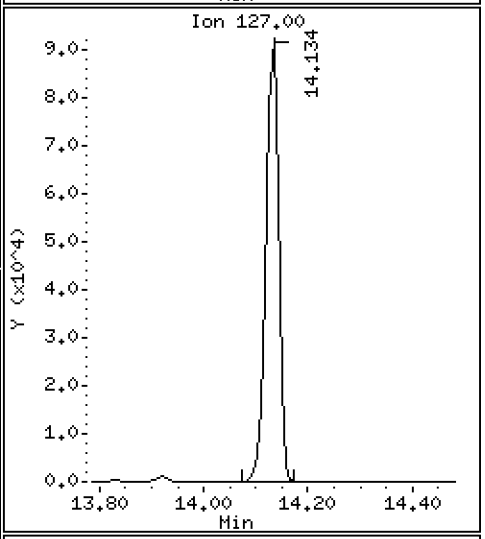
37 2-Chloronaphthalene

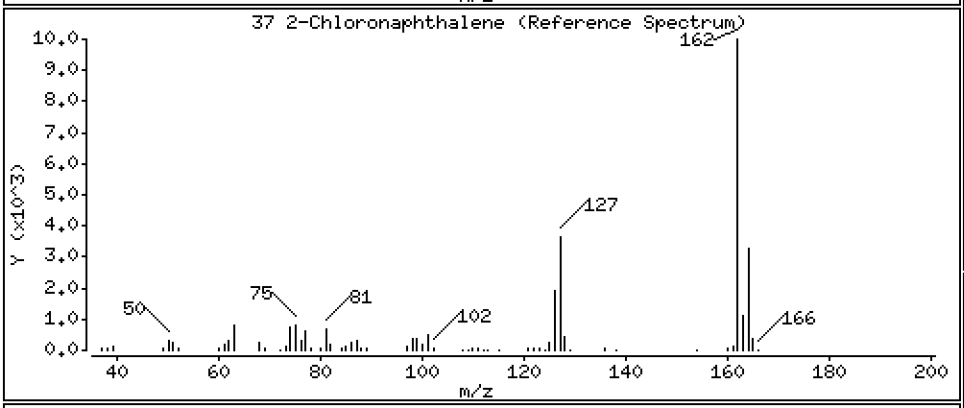
Concentration: 4.754 ug/mL

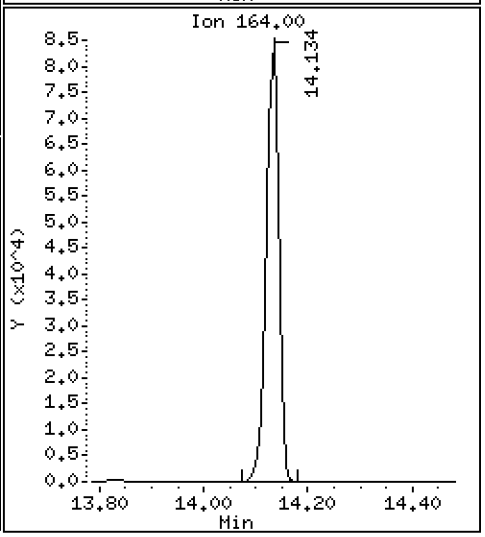


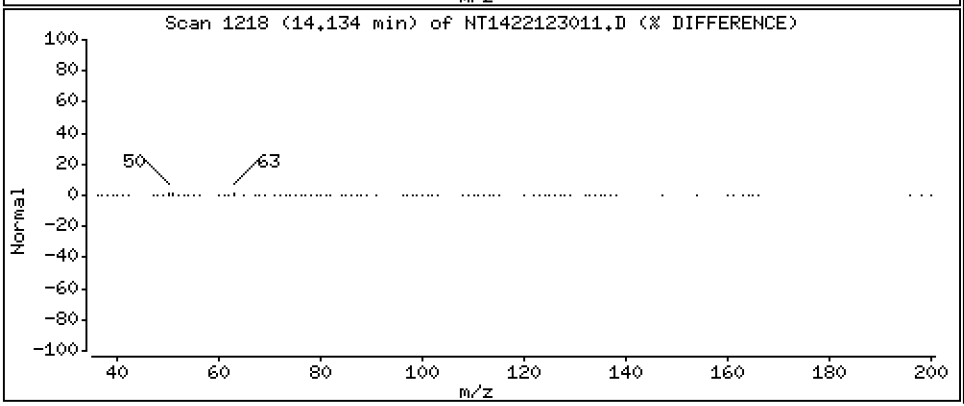












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

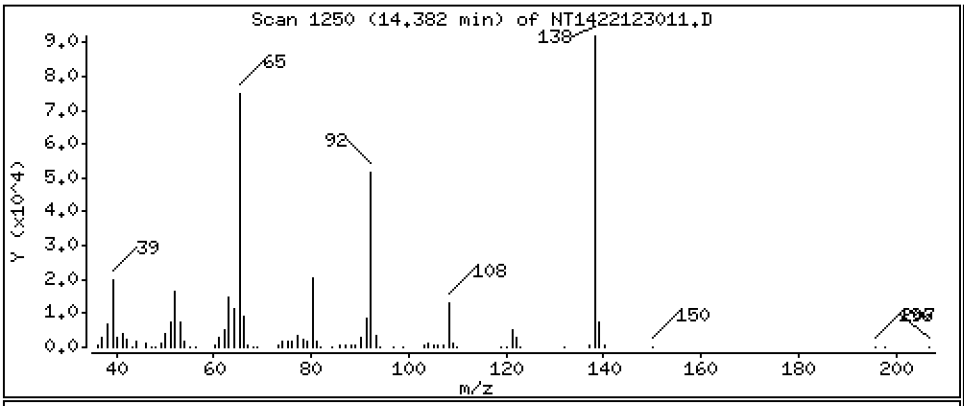
Operator: VTS

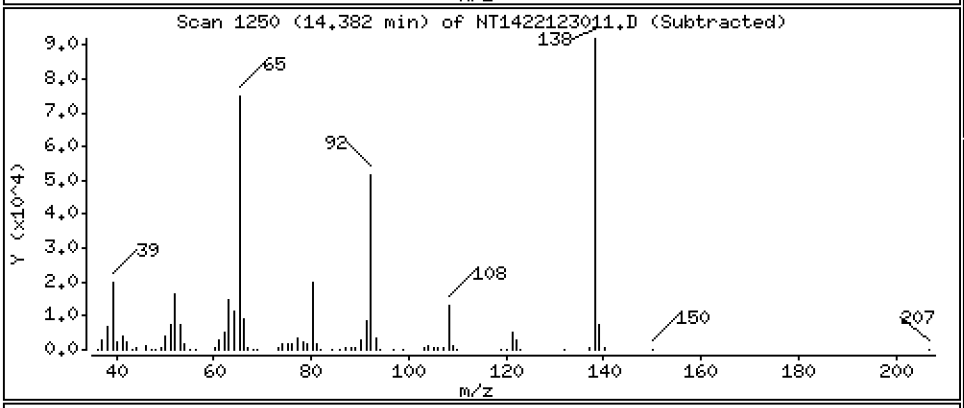
Column phase: ZB-5msi

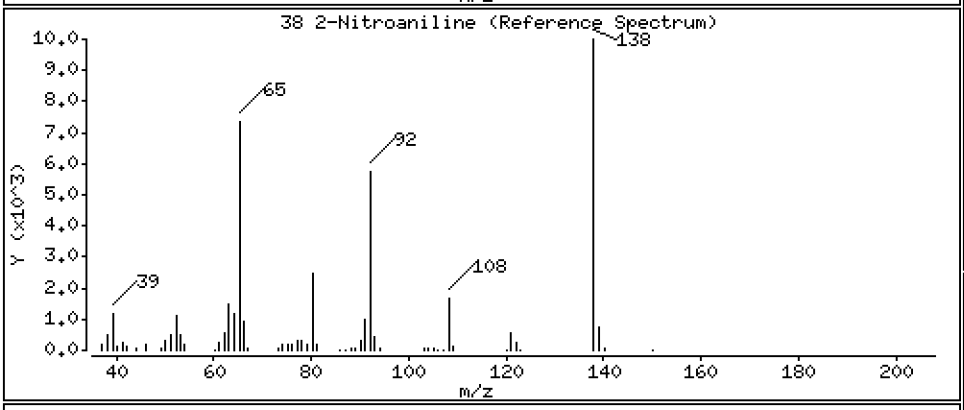
Column diameter: 0.25

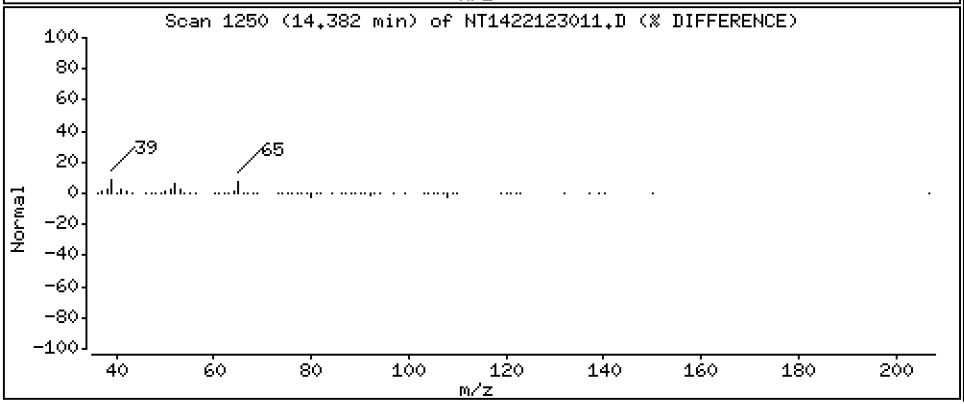
38 2-Nitroaniline

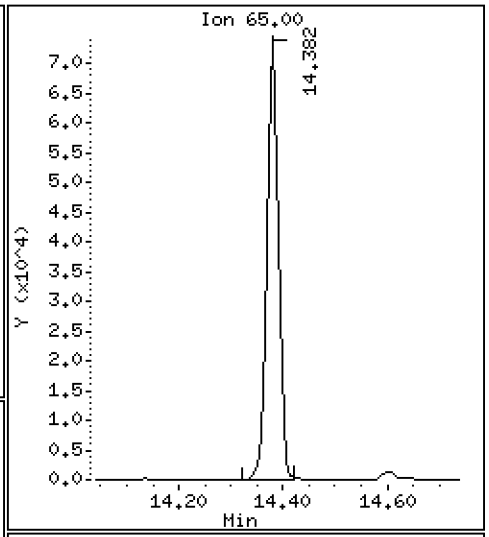
Concentration: 5.043 ug/mL

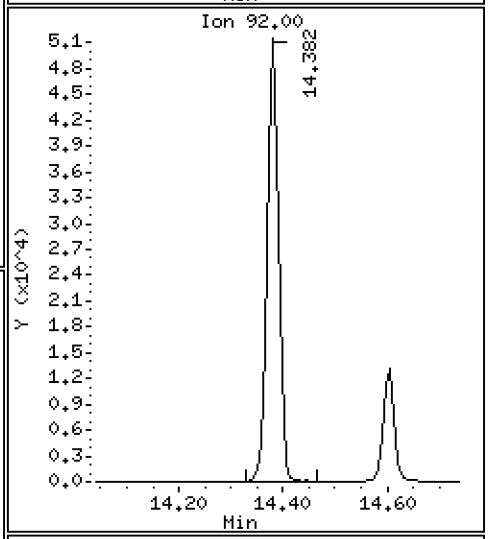


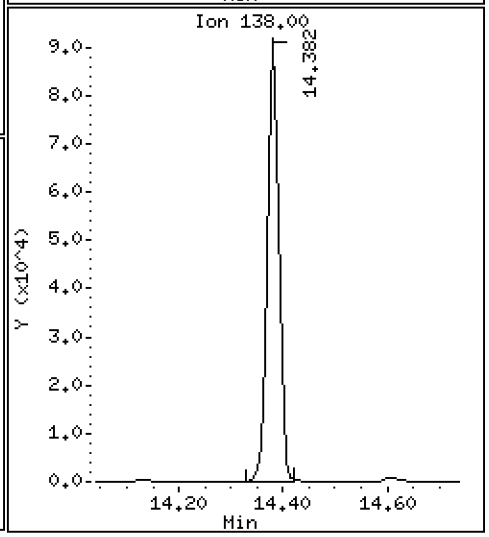












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

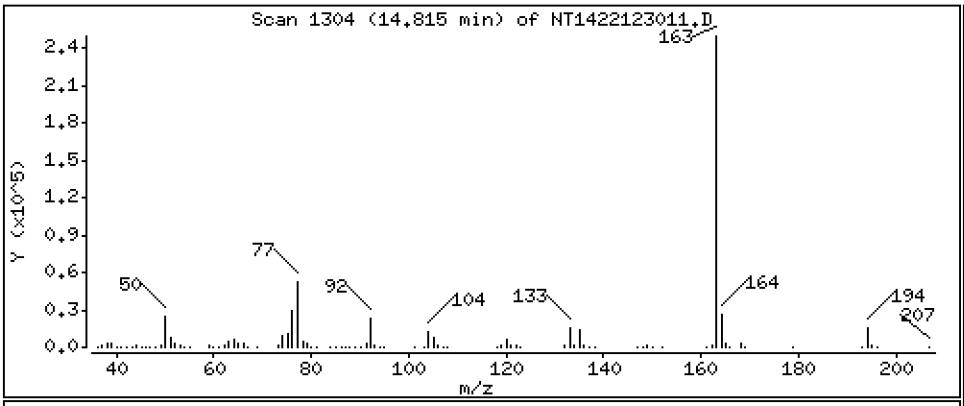
Operator: VTS

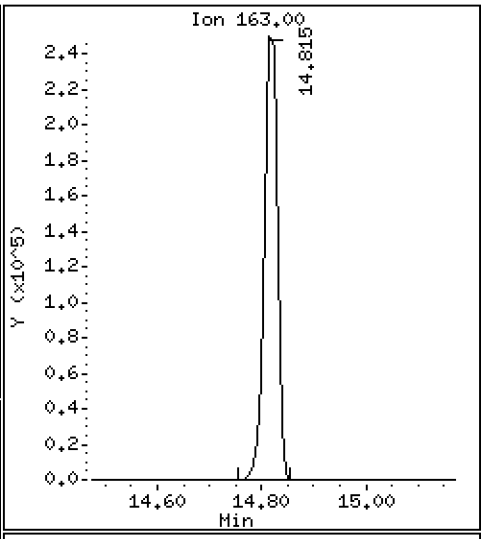
Column phase: ZB-5msi

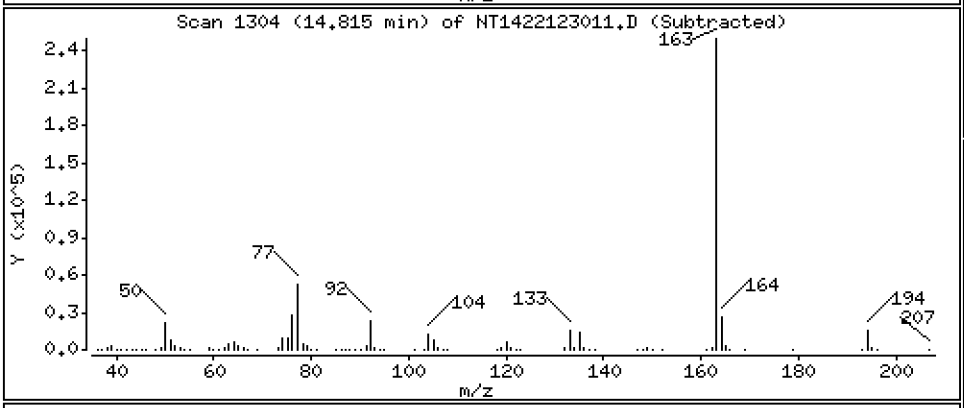
Column diameter: 0.25

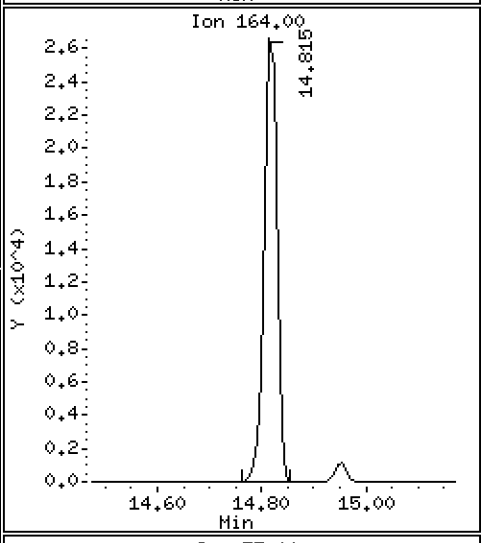
39 Dimethylphthalate

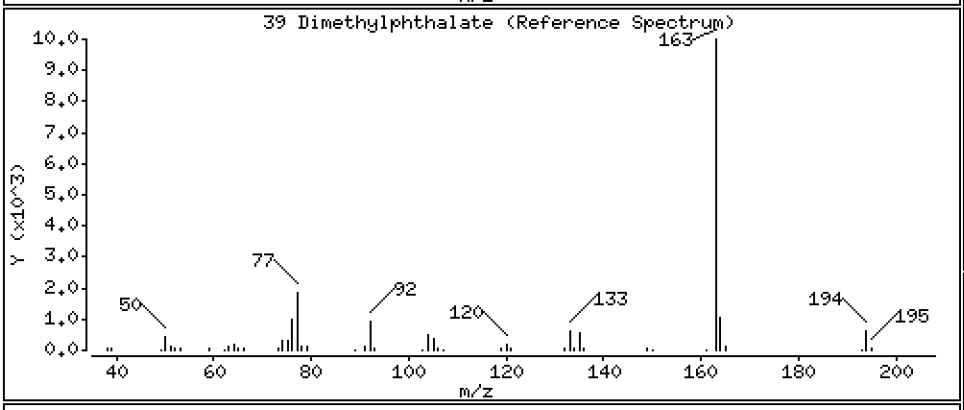
Concentration: 5.023 ug/mL

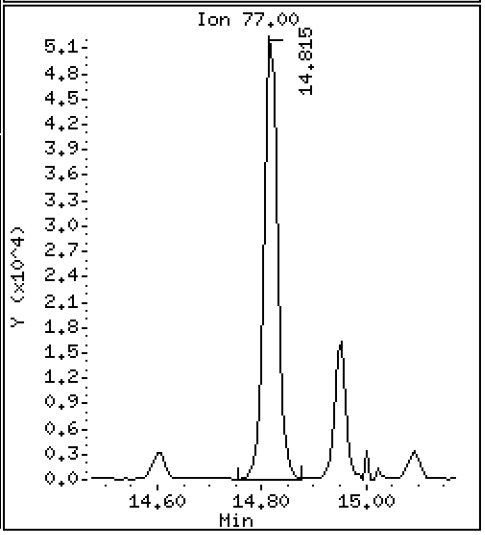


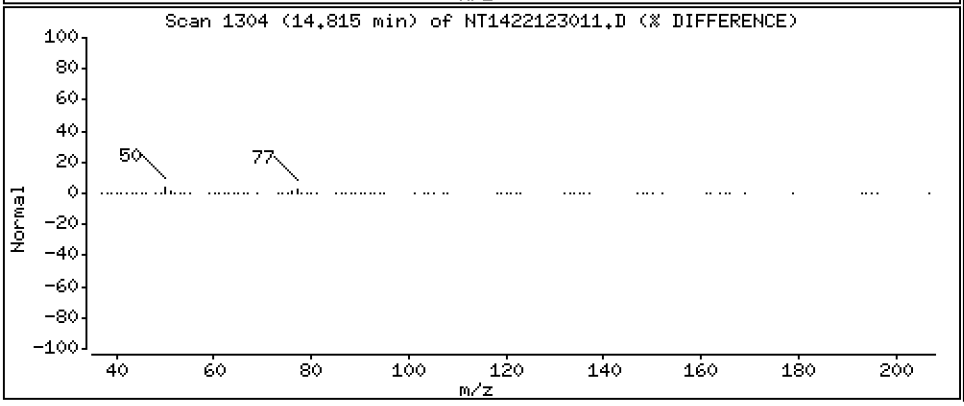












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

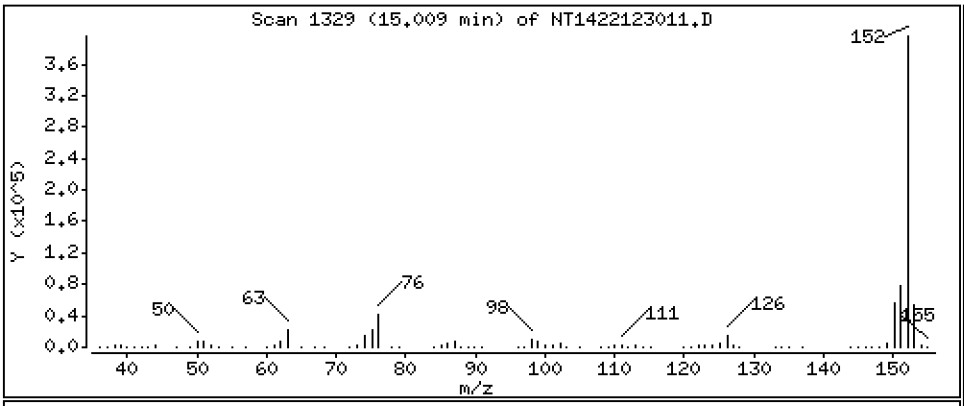
Operator: VTS

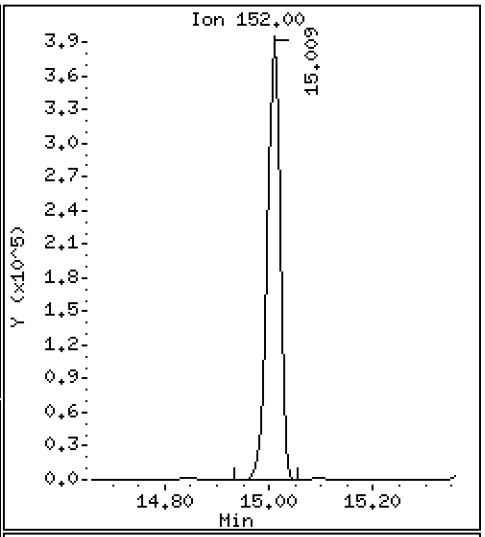
Column phase: ZB-5msi

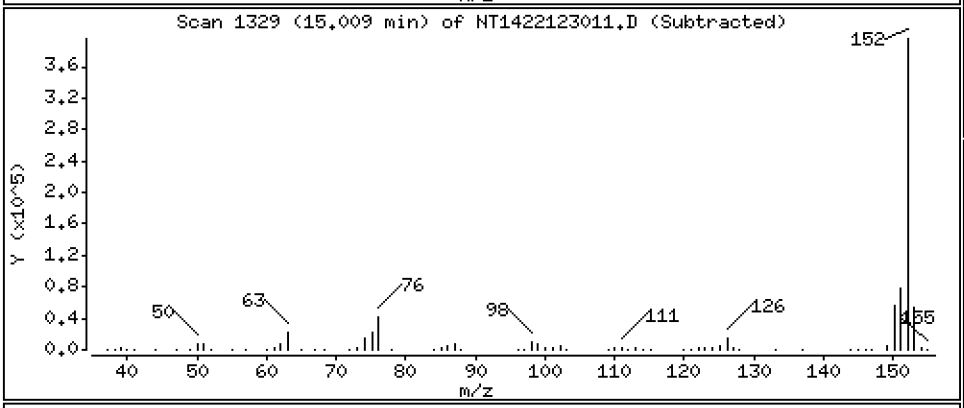
Column diameter: 0.25

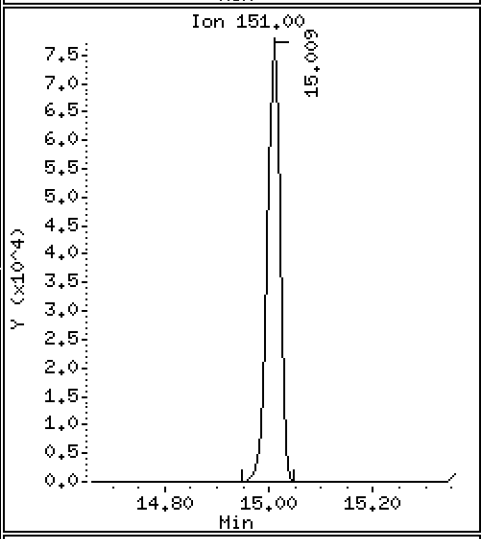
40 Acenaphthylene

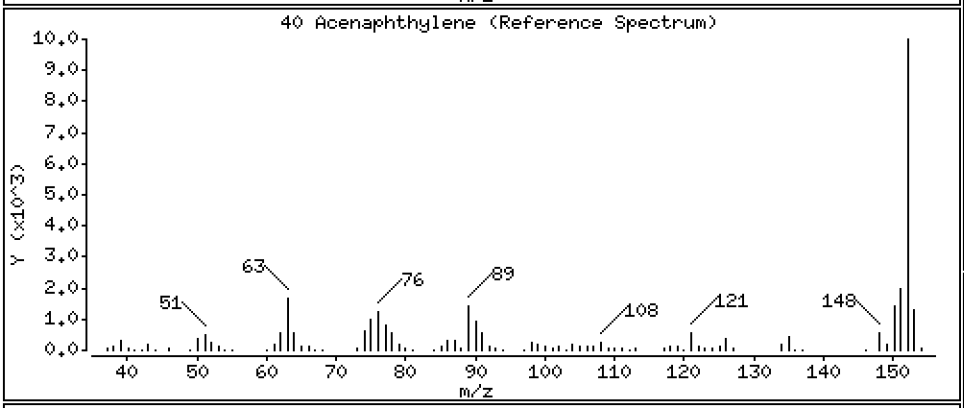
Concentration: 5.000 ug/mL

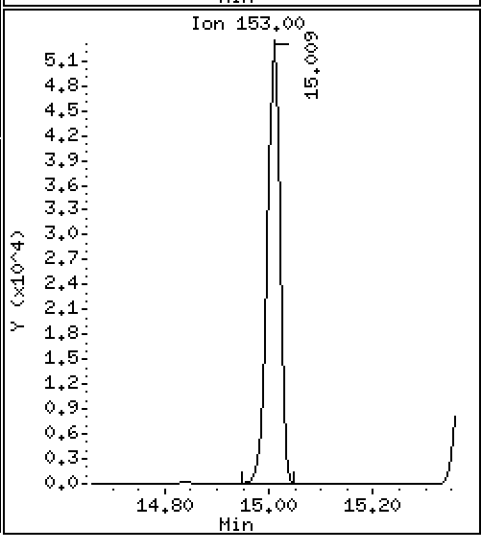


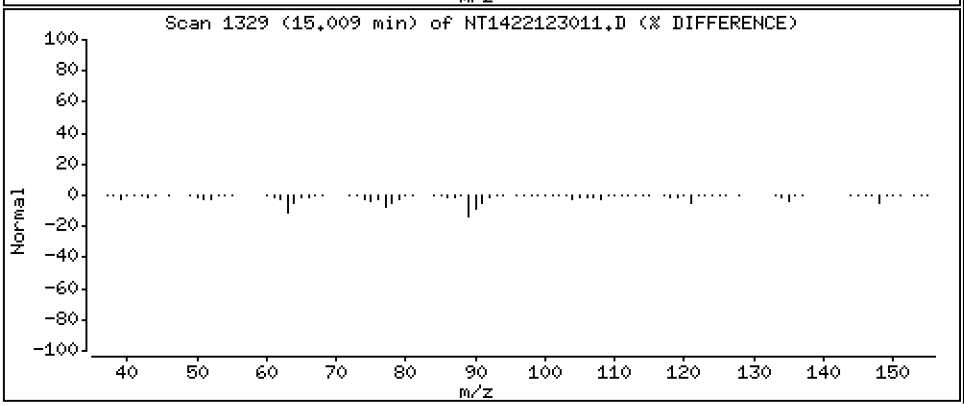












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

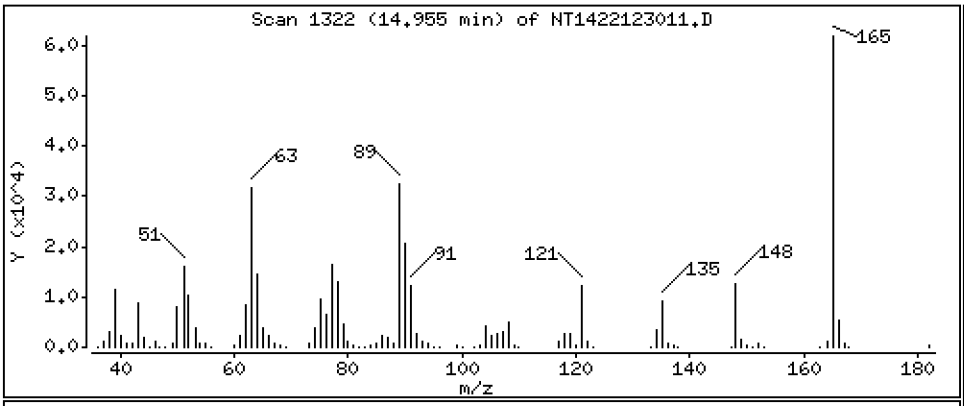
Operator: VTS

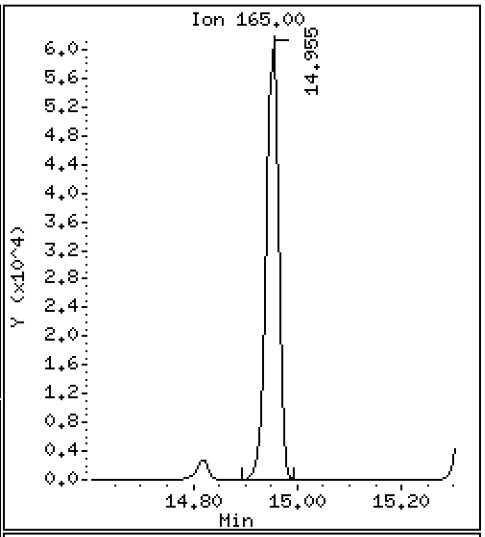
Column phase: ZB-5msi

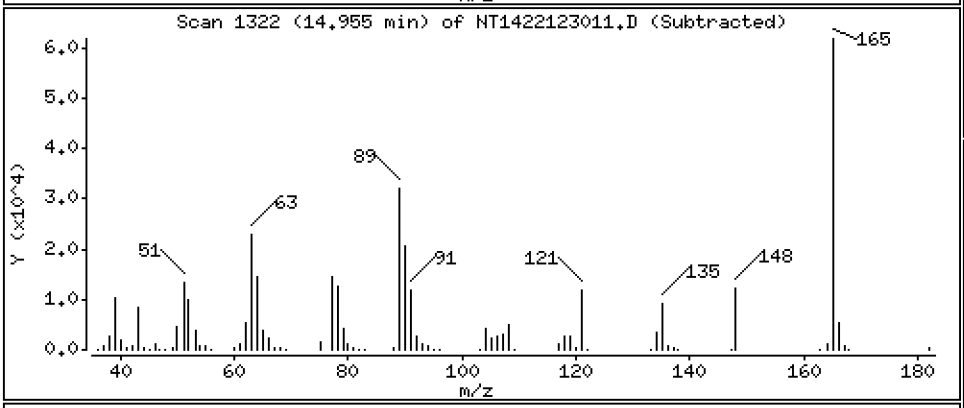
Column diameter: 0.25

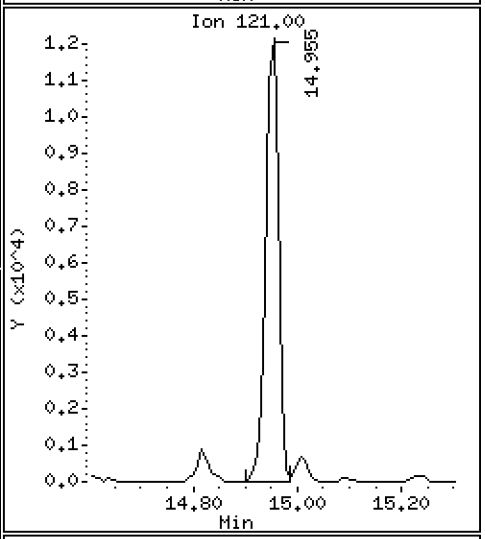
41 2,6-Dinitrotoluene

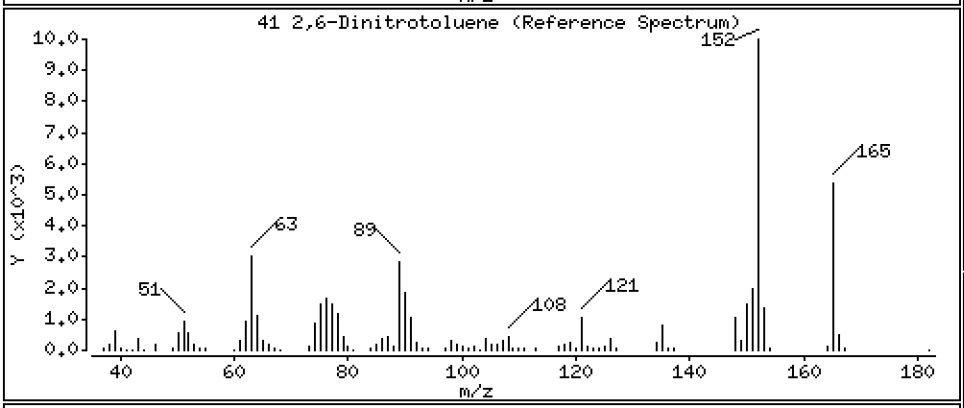
Concentration: 5.115 ug/mL

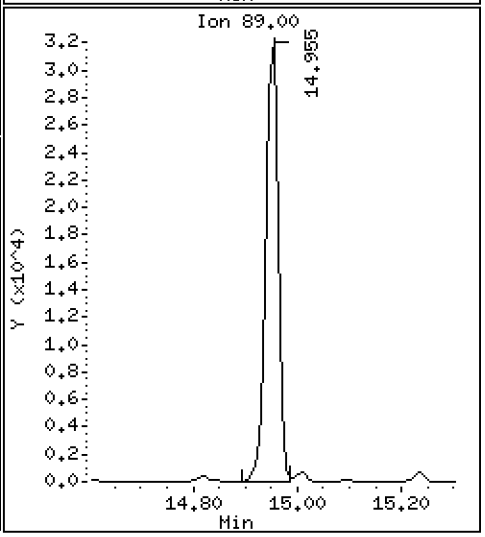


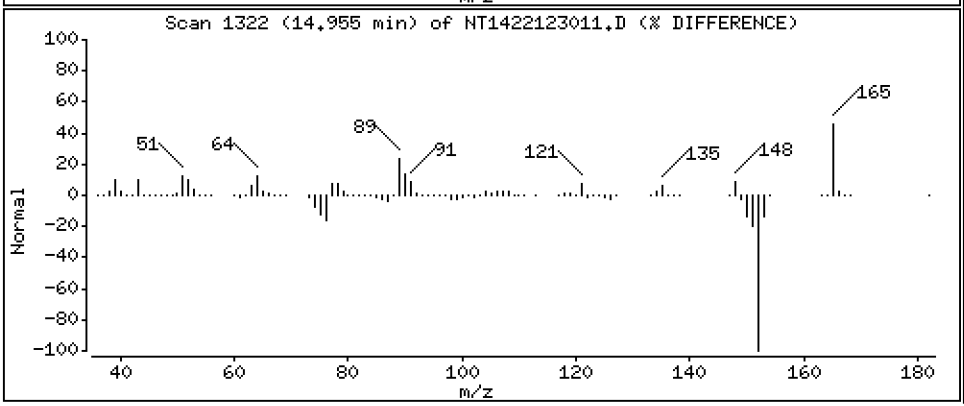












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

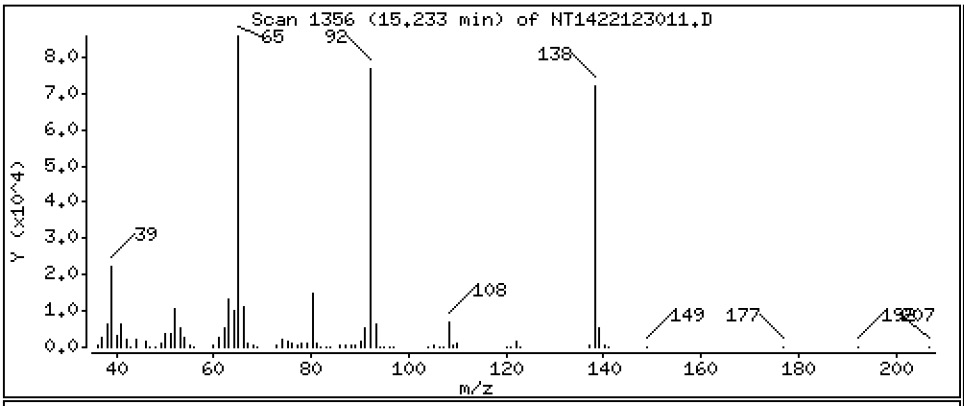
Operator: VTS

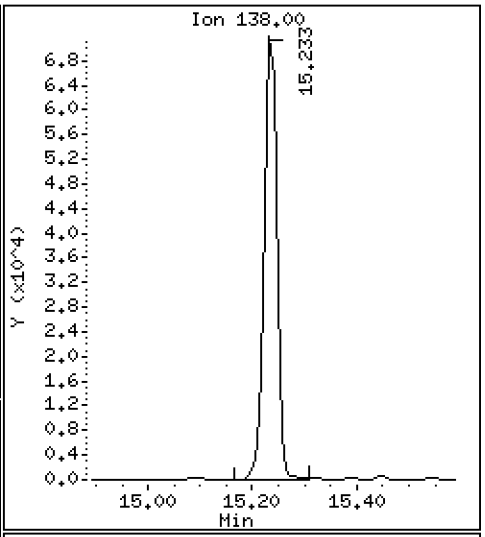
Column phase: ZB-5msi

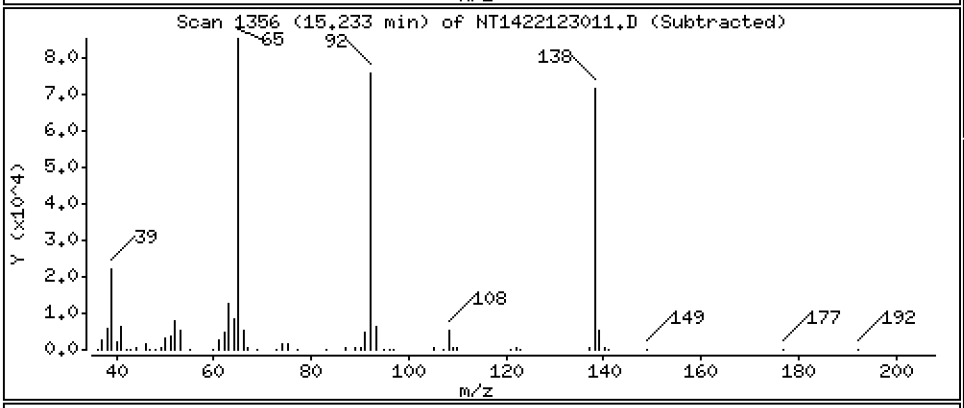
Column diameter: 0.25

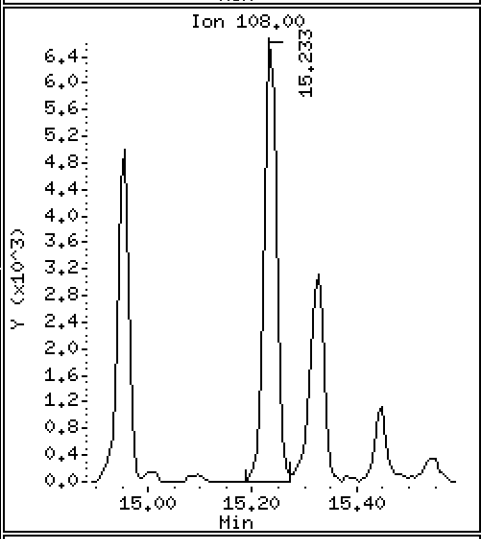
43 3-Nitroaniline

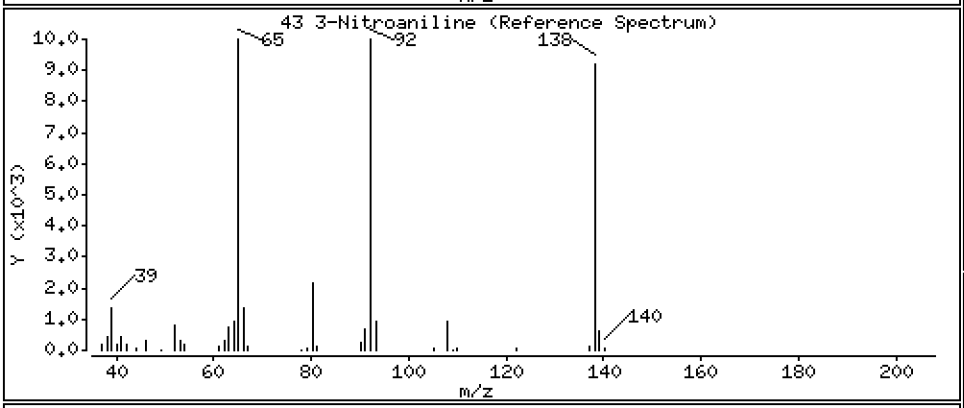
Concentration: 5.088 ug/mL

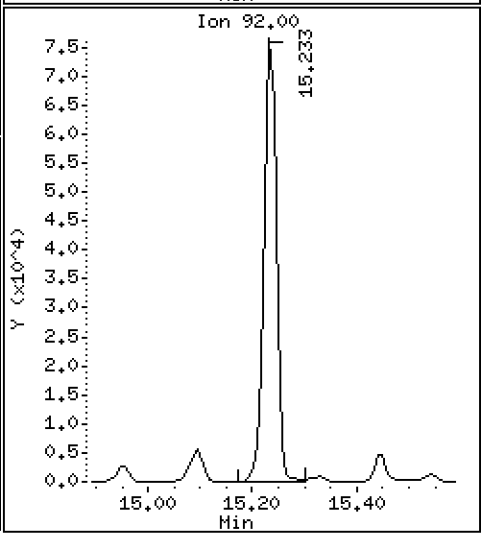


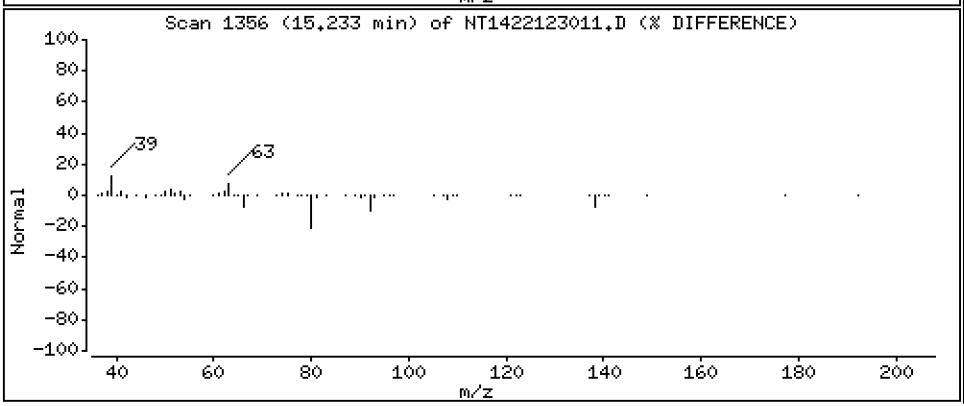












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

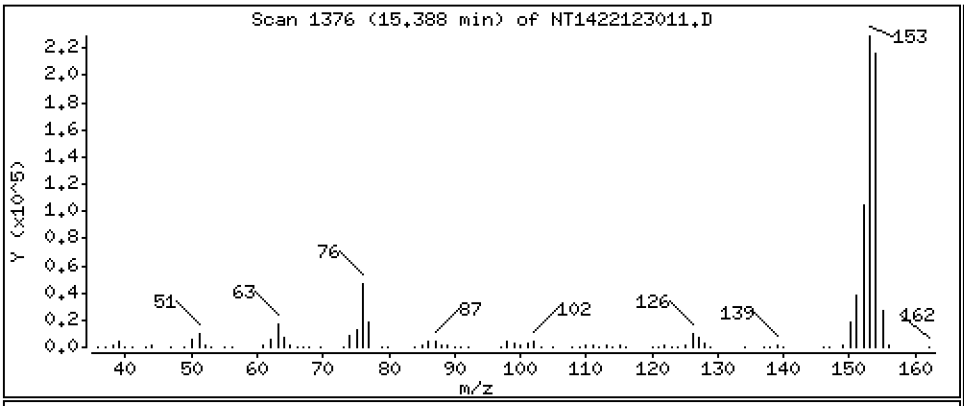
Operator: VTS

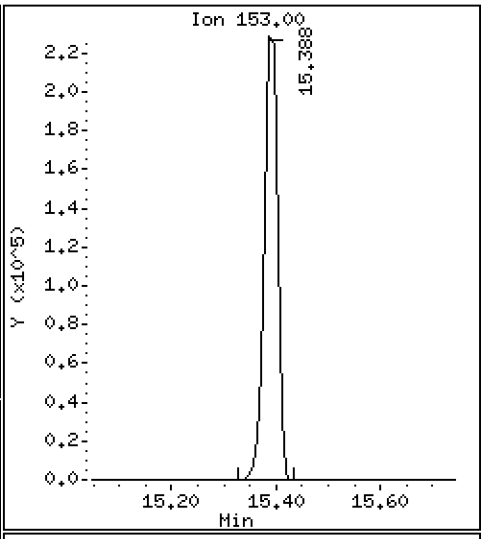
Column phase: ZB-5msi

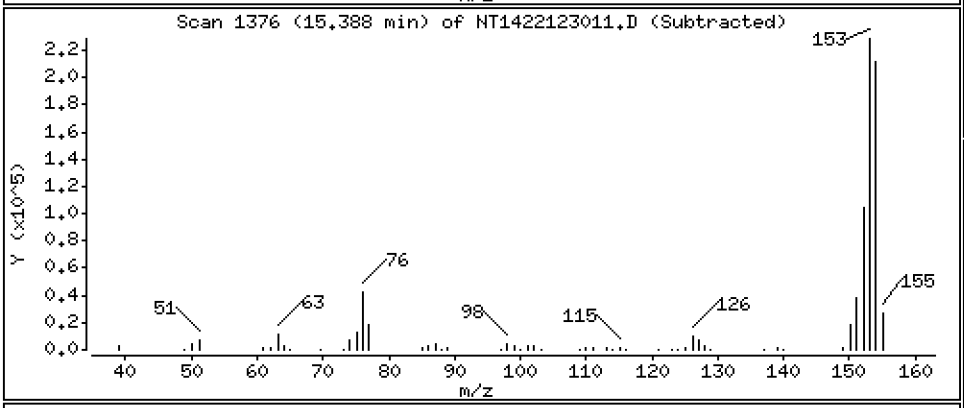
Column diameter: 0.25

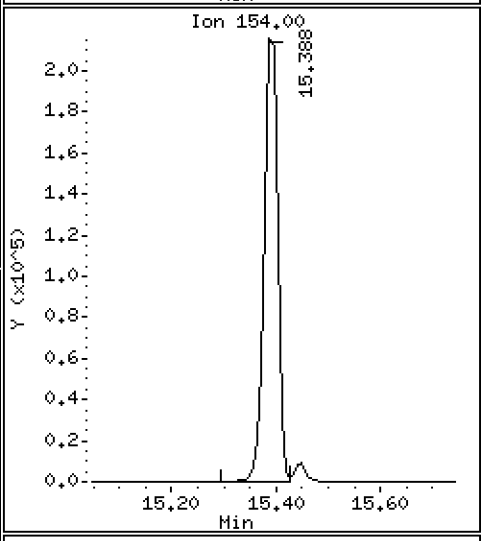
44 Acenaphthene

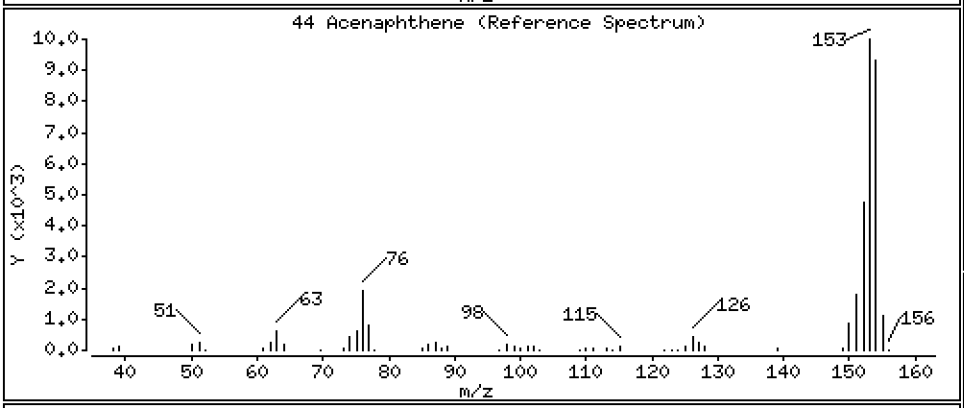
Concentration: 4.916 ug/mL

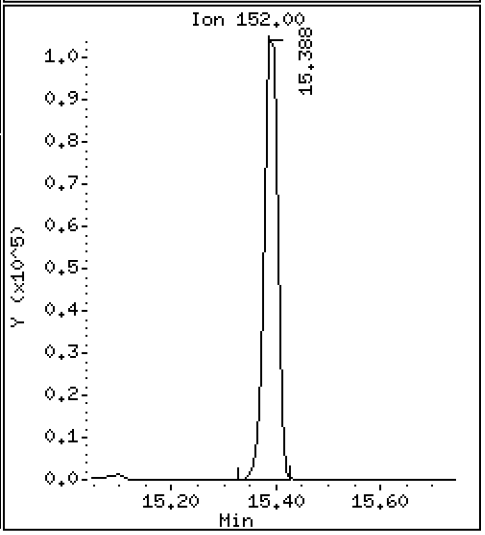


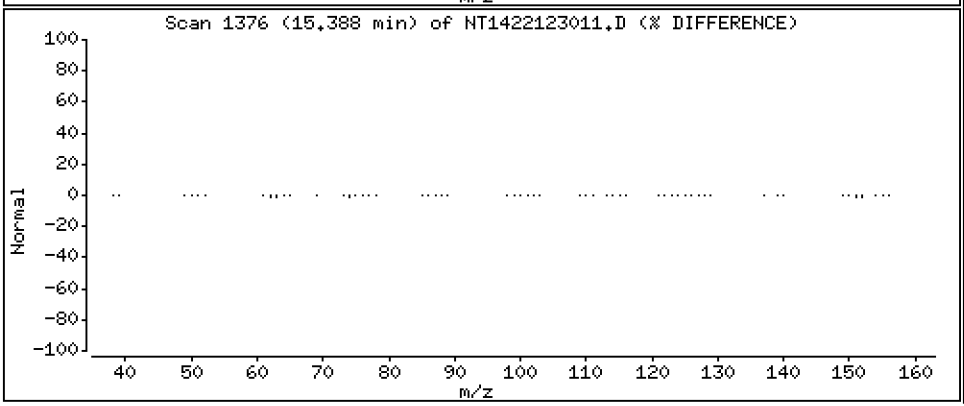












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

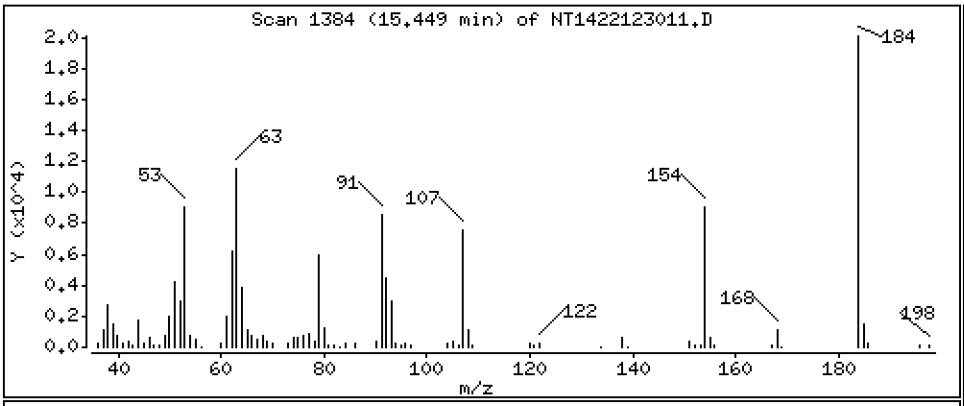
Operator: VTS

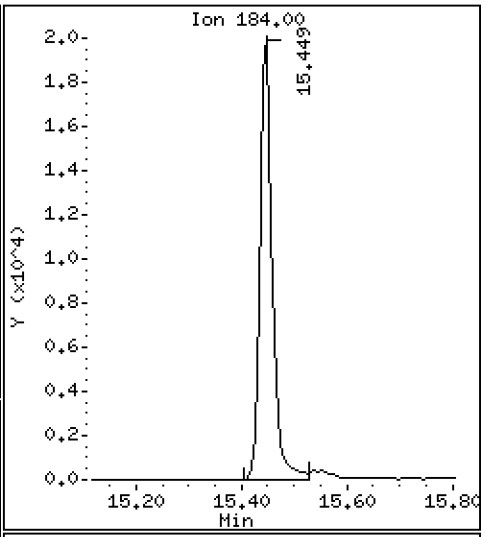
Column phase: ZB-5msi

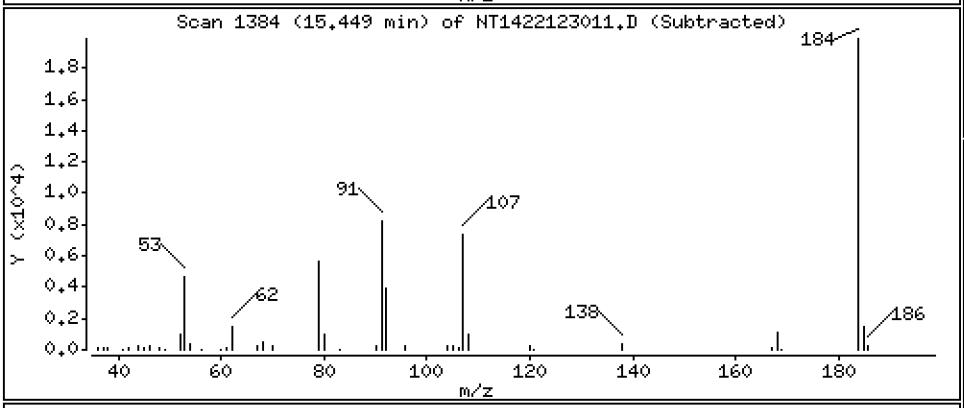
Column diameter: 0.25

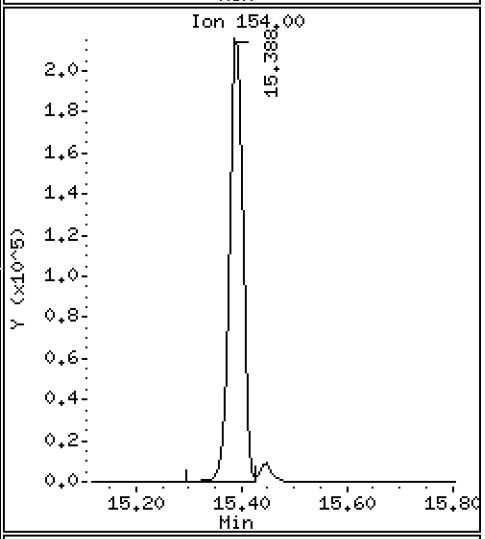
45 2,4-Dinitrophenol

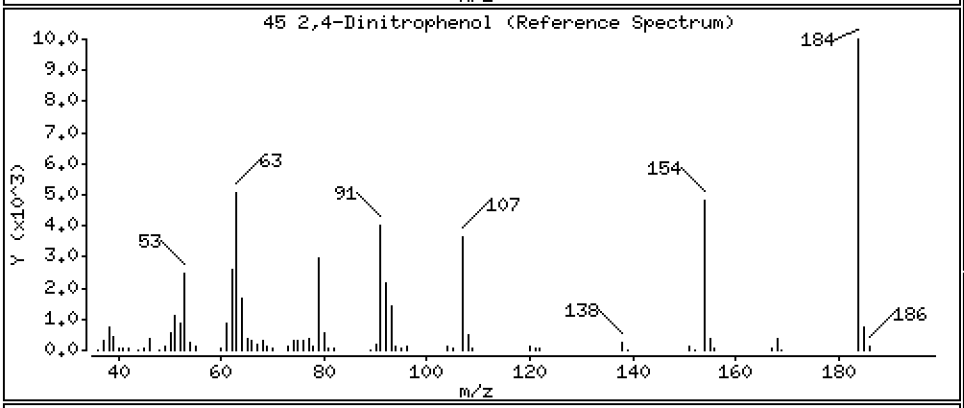
Concentration: 2.036 ug/mL

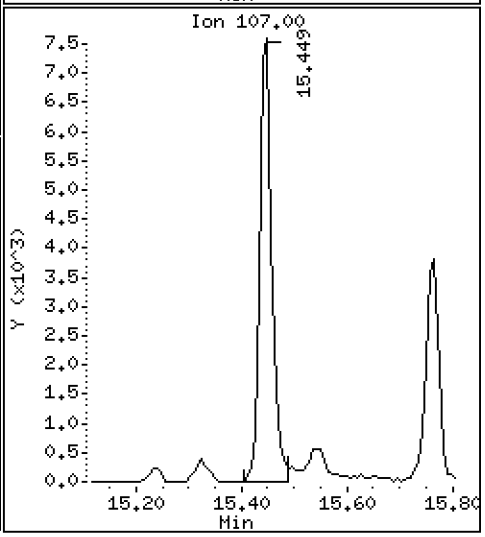


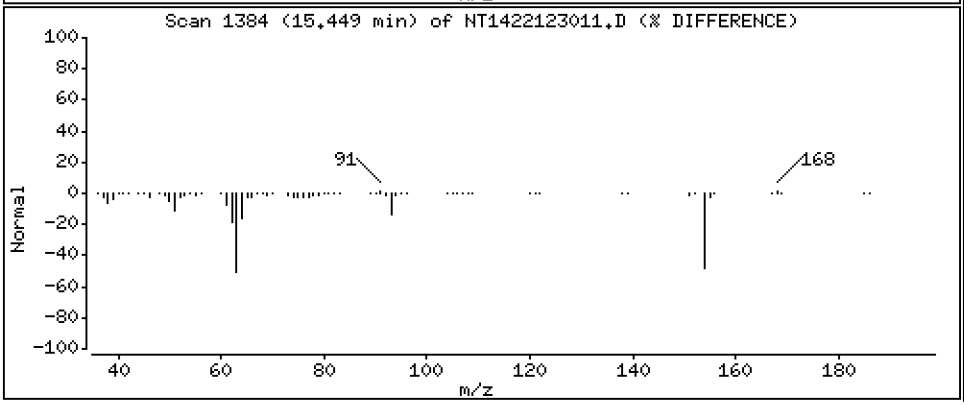












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

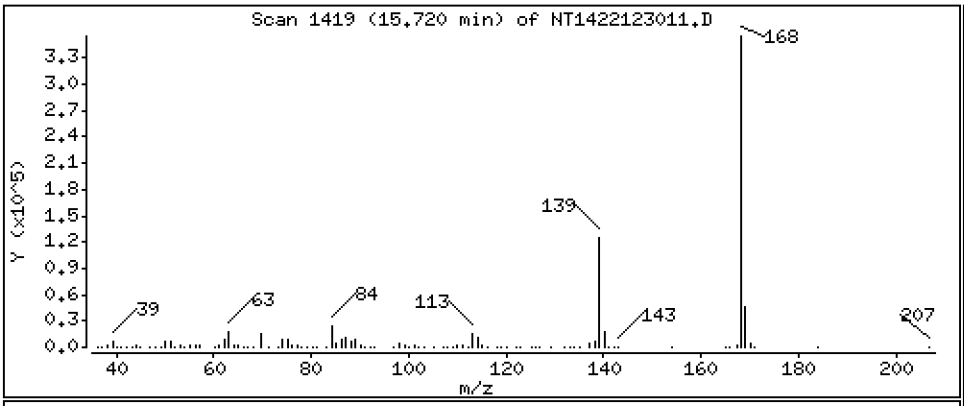
Operator: VTS

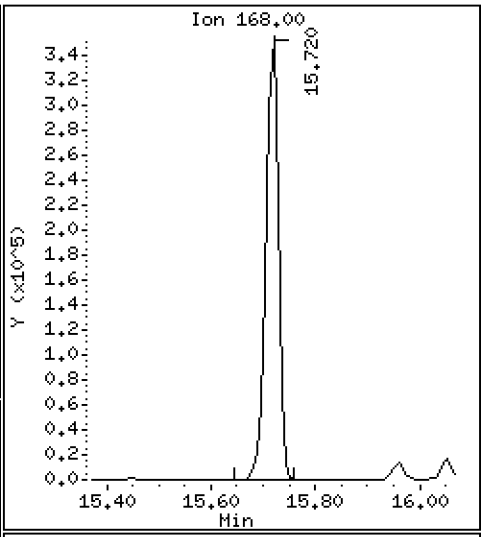
Column phase: ZB-5msi

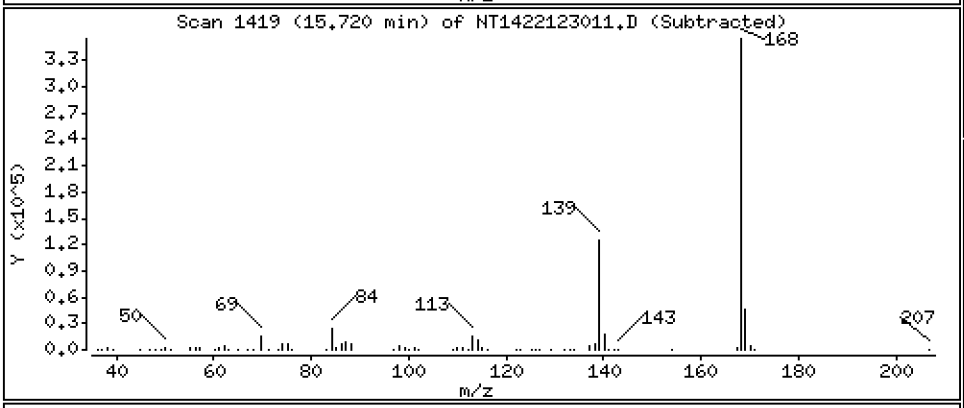
Column diameter: 0.25

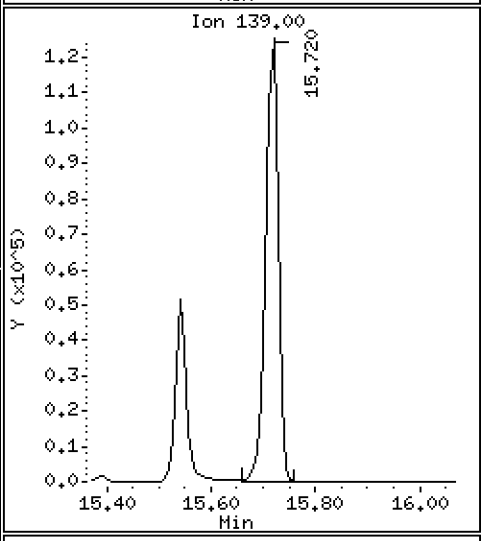
46 Dibenzofuran

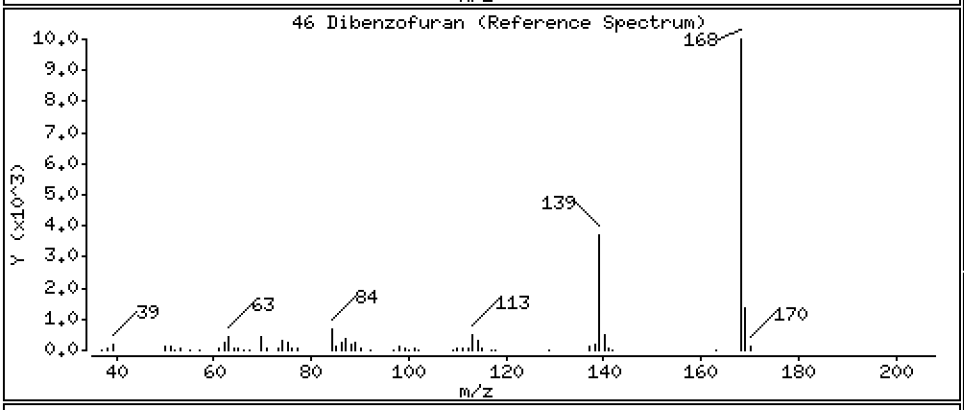
Concentration: 4.709 ug/mL

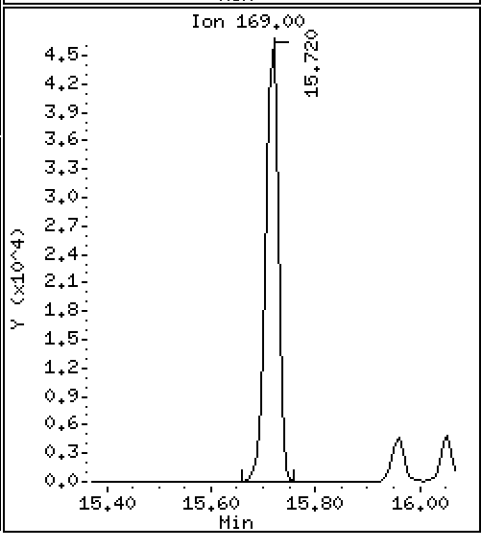


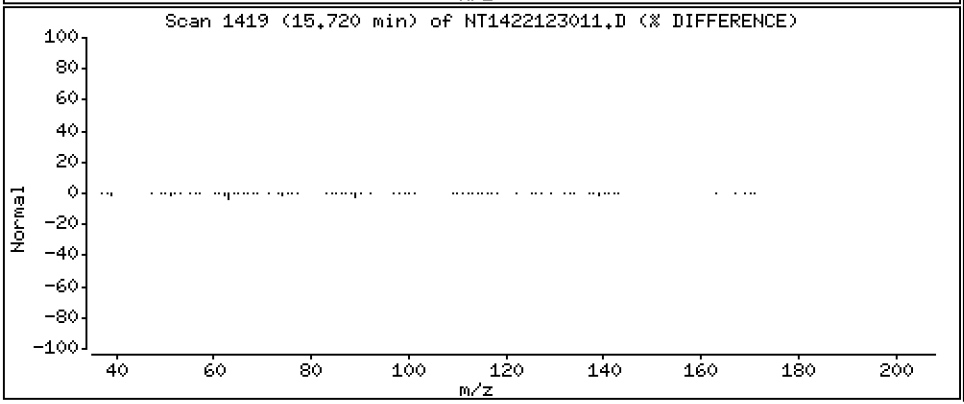












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

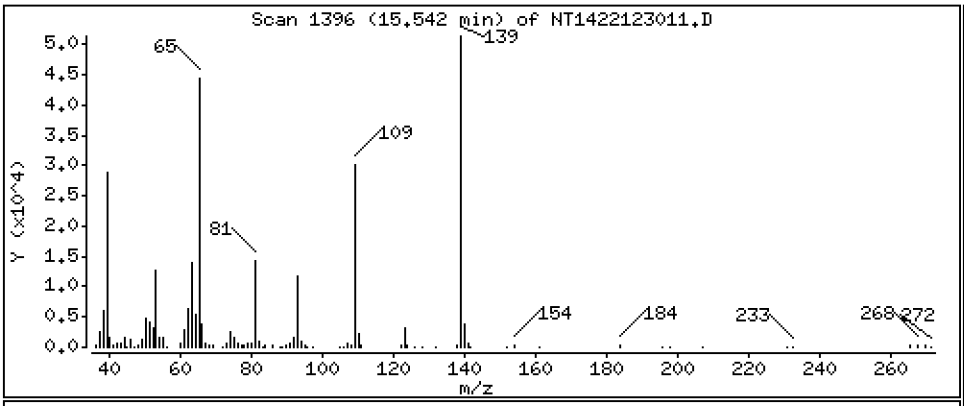
Operator: VTS

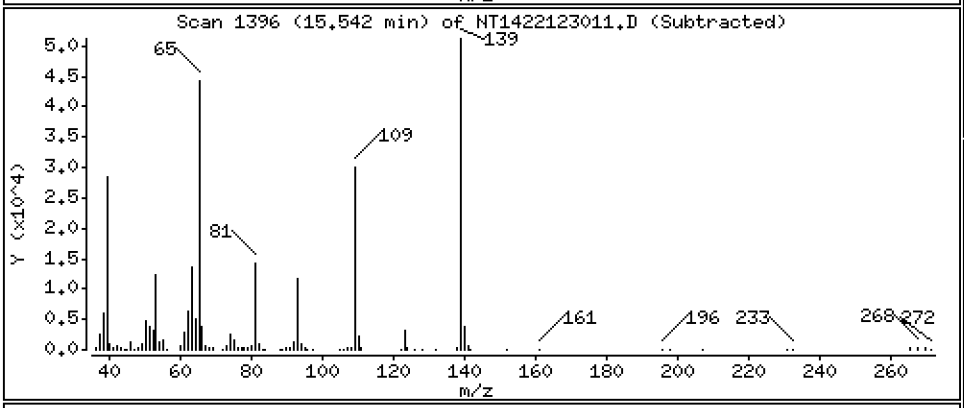
Column phase: ZB-5msi

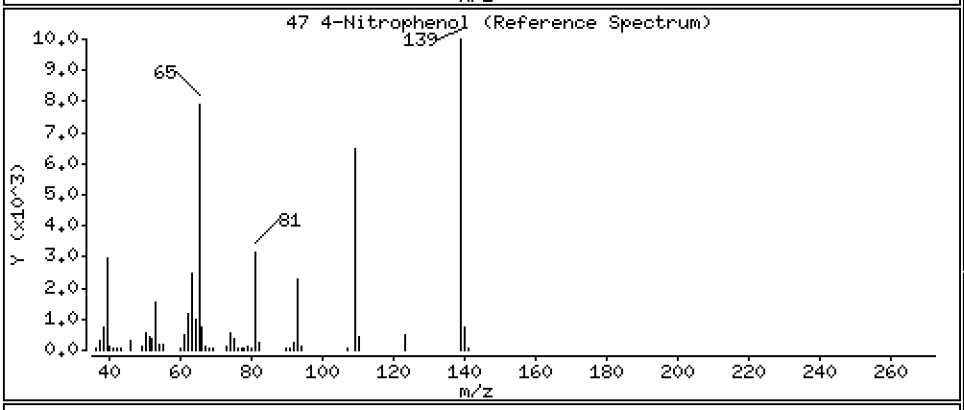
Column diameter: 0.25

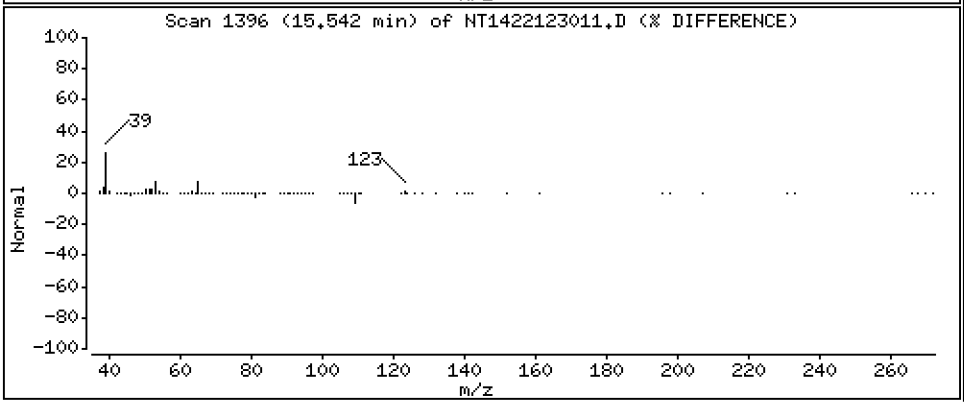
47 4-Nitrophenol

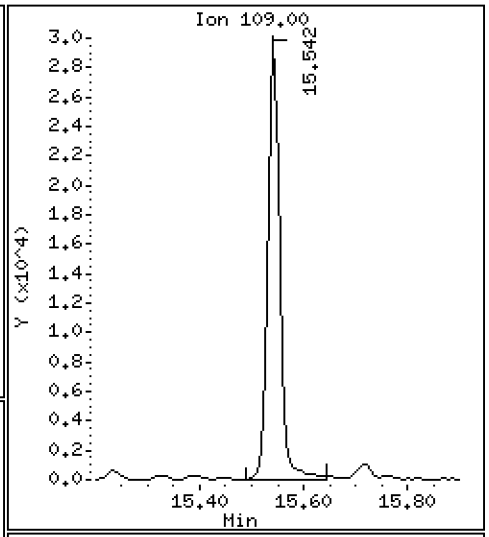
Concentration: 4.077 ug/mL

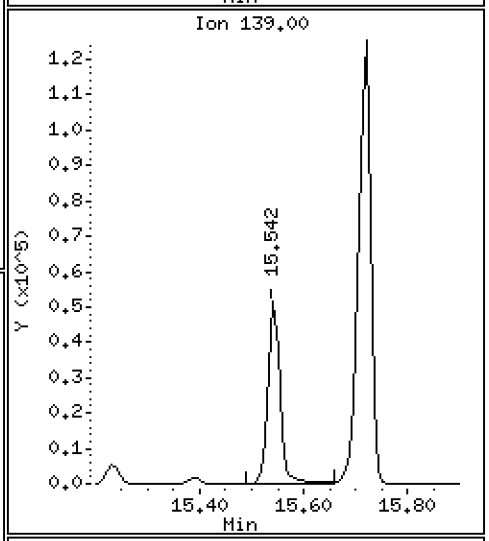


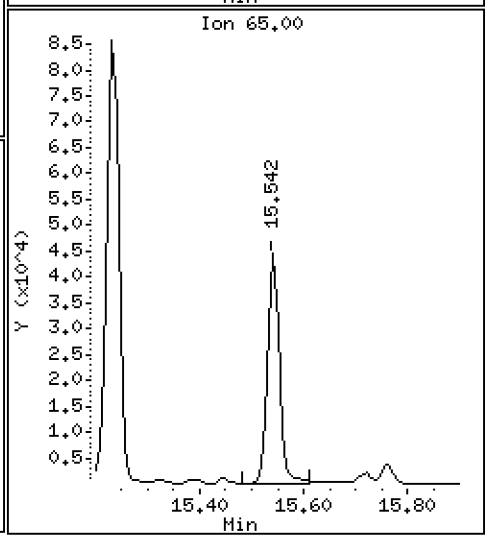












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

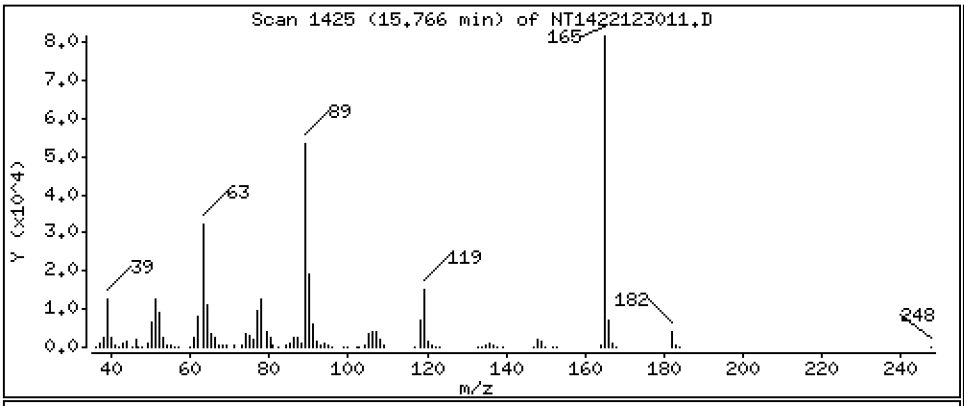
Operator: VTS

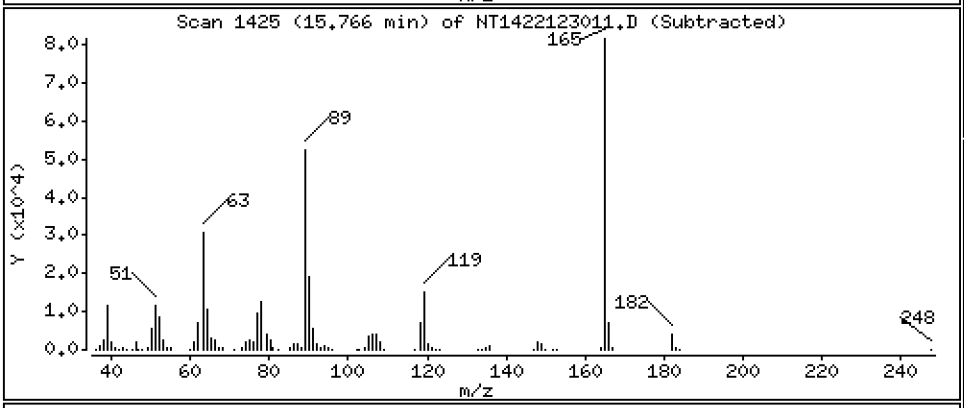
Column phase: ZB-5msi

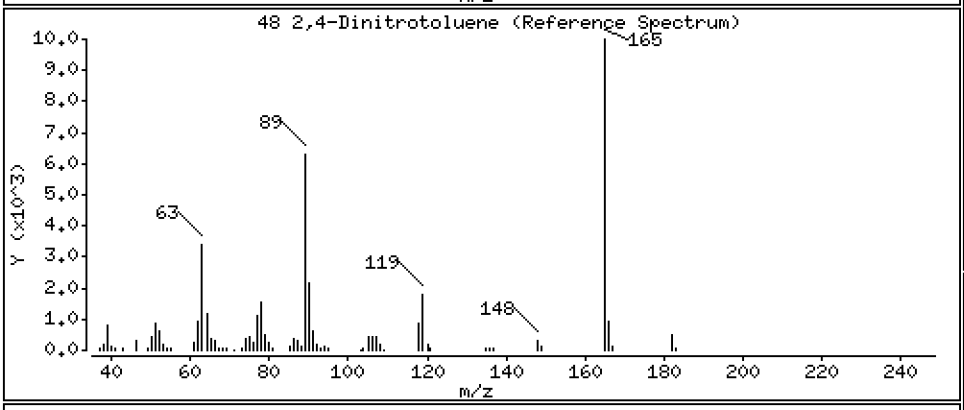
Column diameter: 0.25

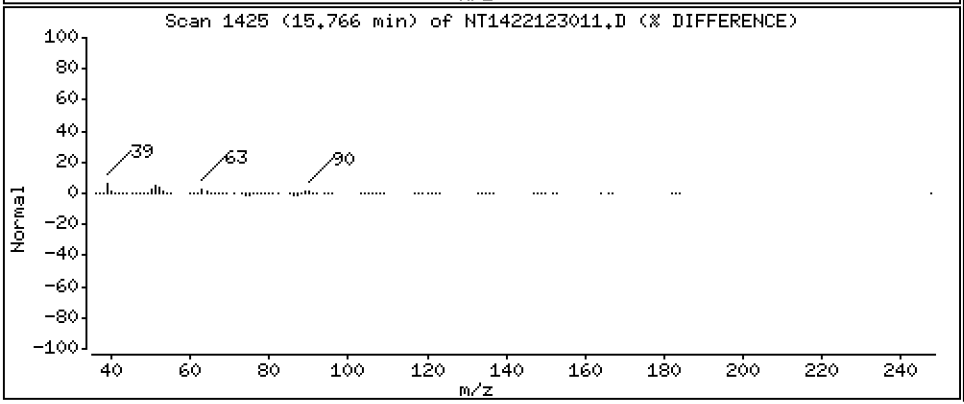
48 2,4-Dinitrotoluene

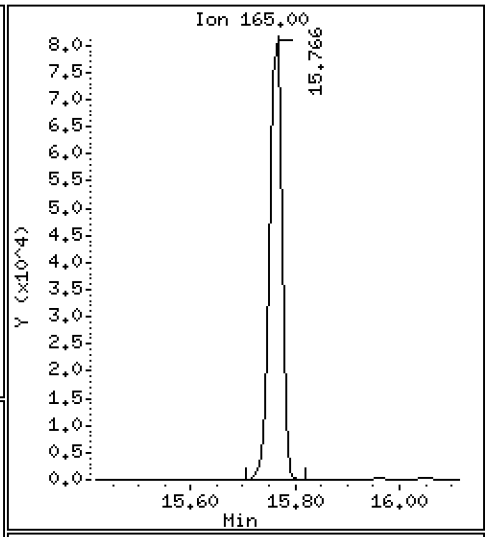
Concentration: 4.956 ug/mL

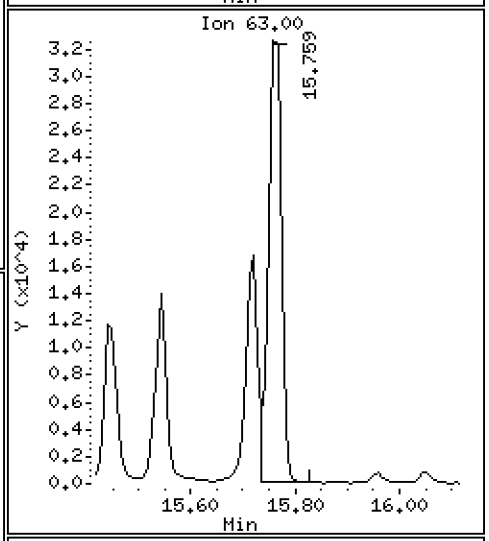


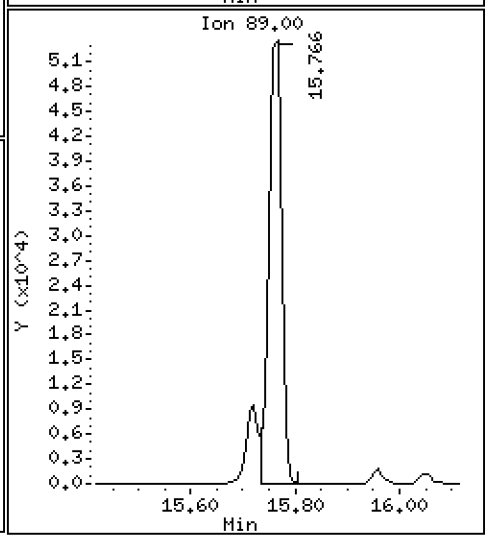












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

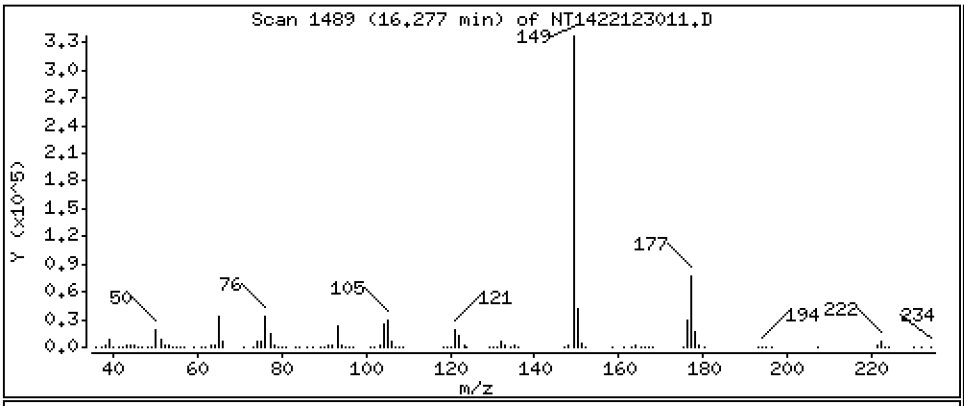
Operator: VTS

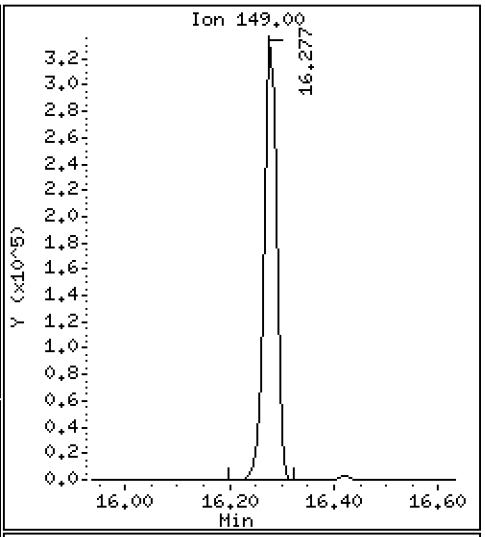
Column phase: ZB-5msi

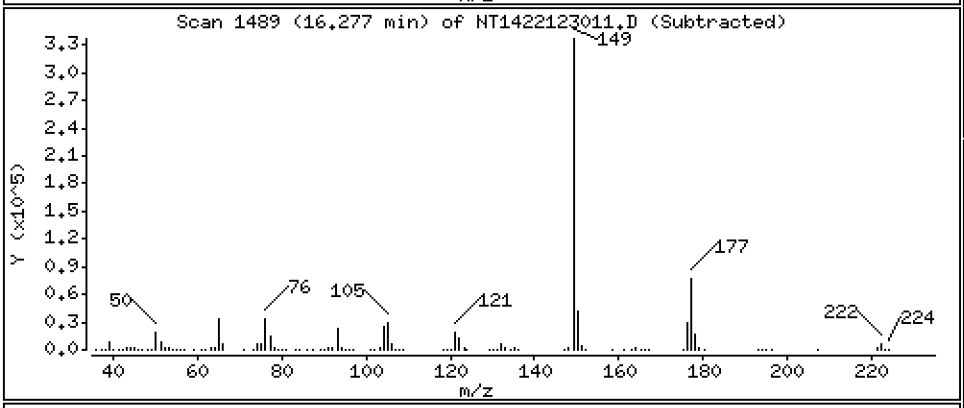
Column diameter: 0.25

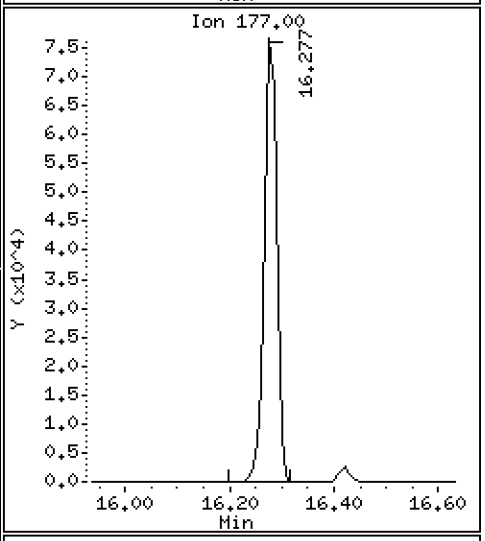
50 Diethylphthalate

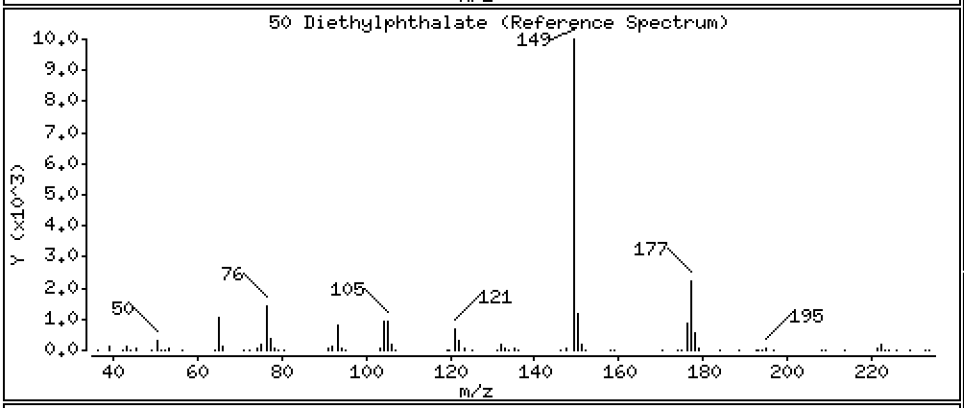
Concentration: 5.353 ug/mL

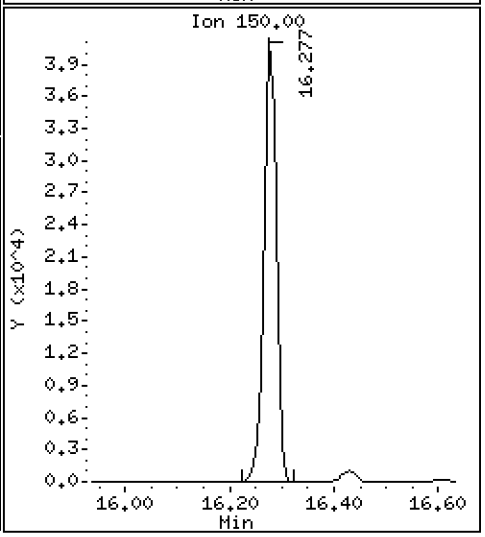


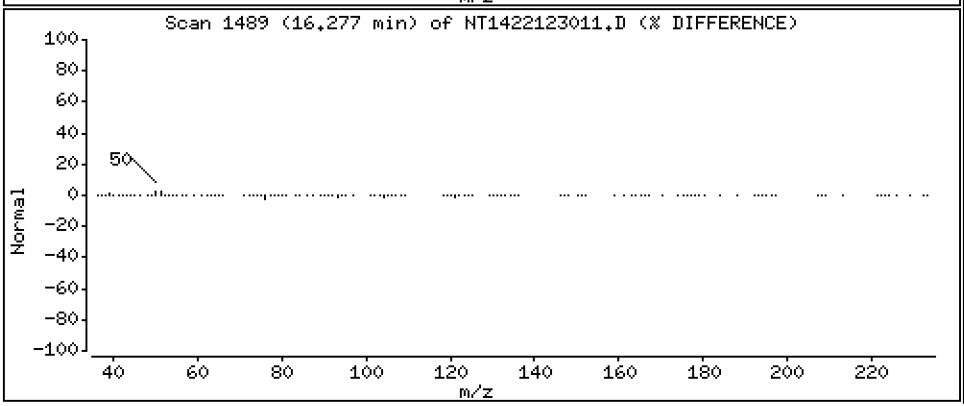












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

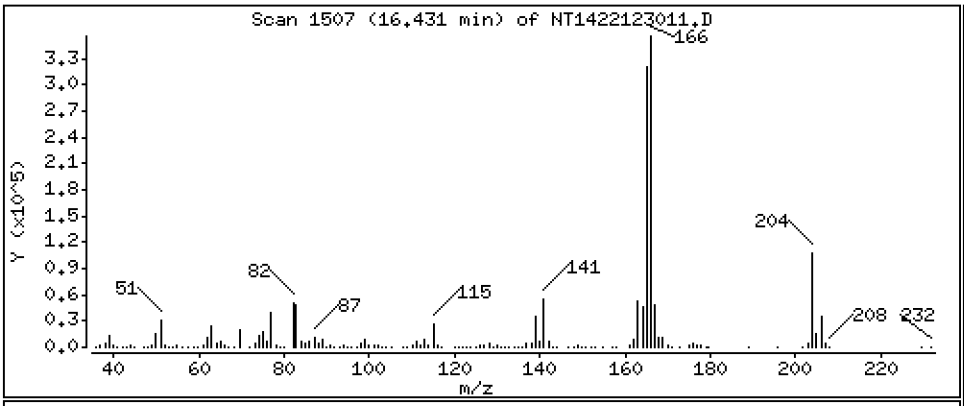
Operator: VTS

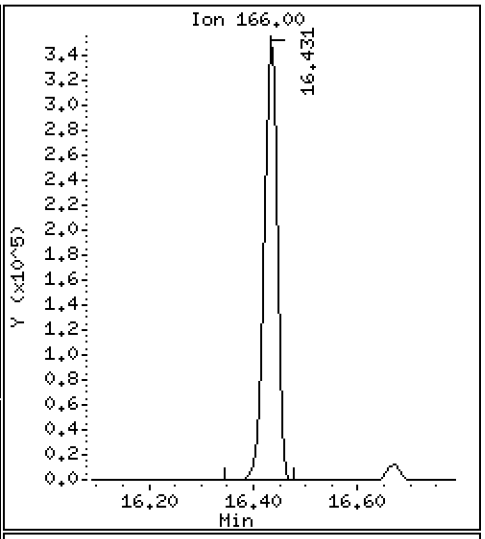
Column phase: ZB-5msi

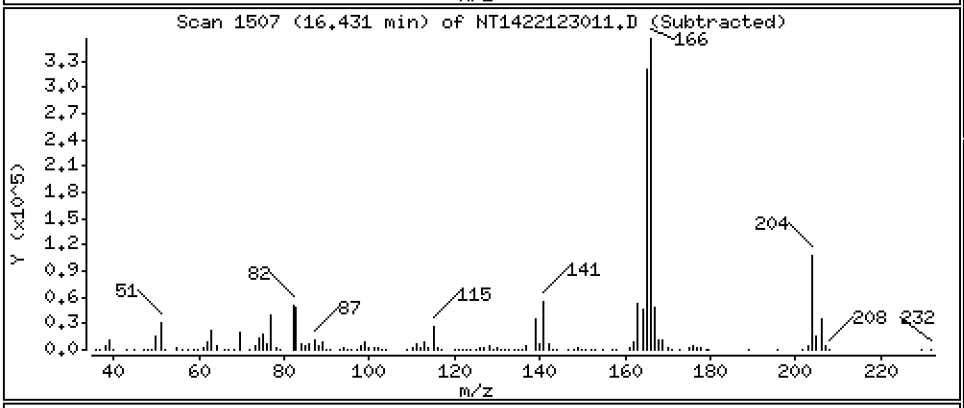
Column diameter: 0.25

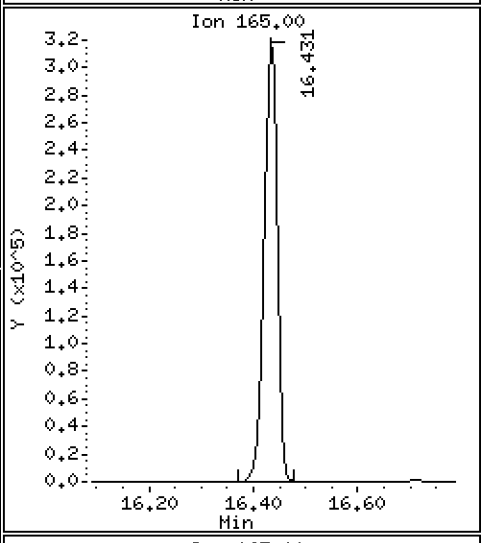
49 Fluorene

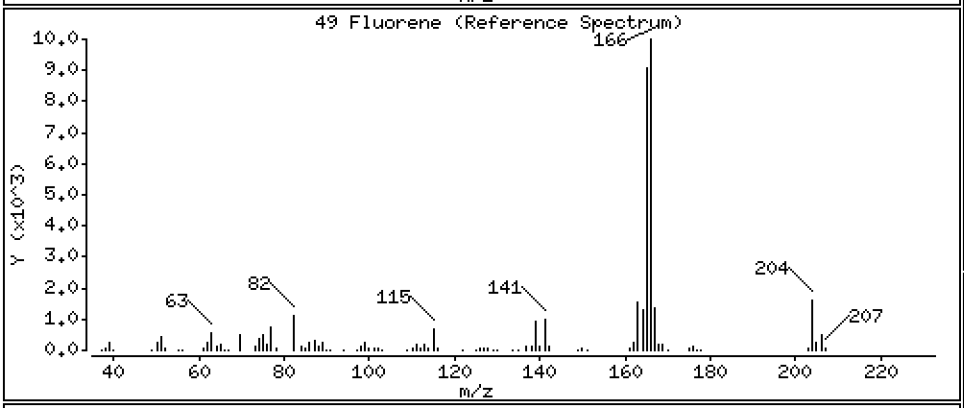
Concentration: 5.230 ug/mL

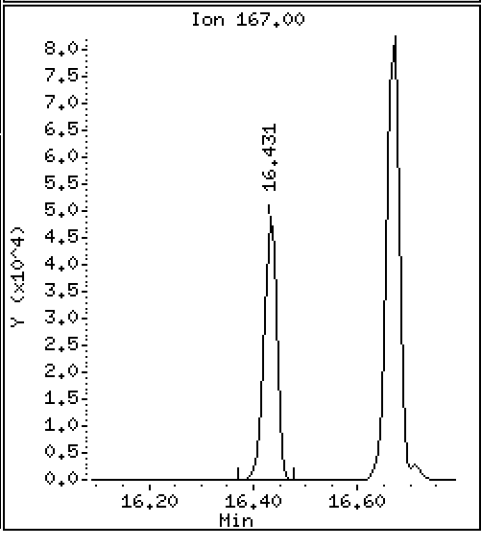


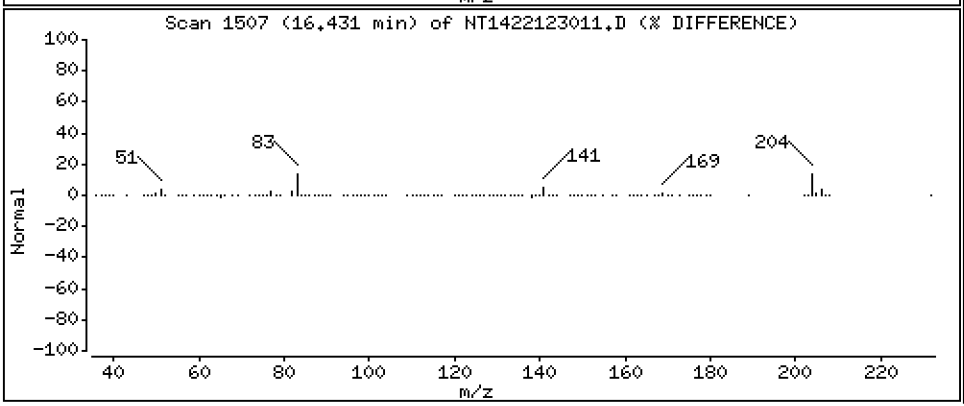












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

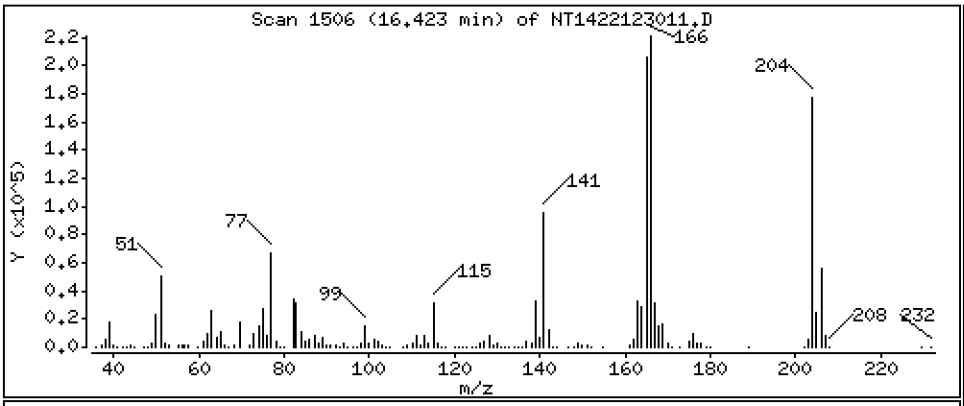
Operator: VTS

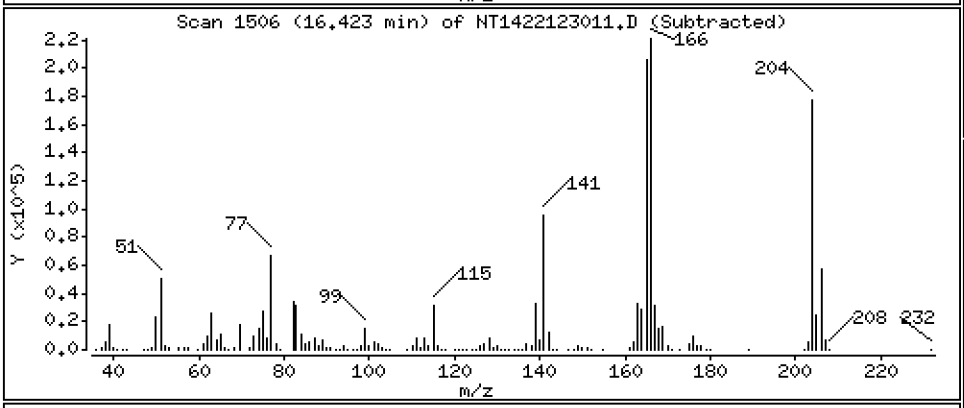
Column phase: ZB-5msi

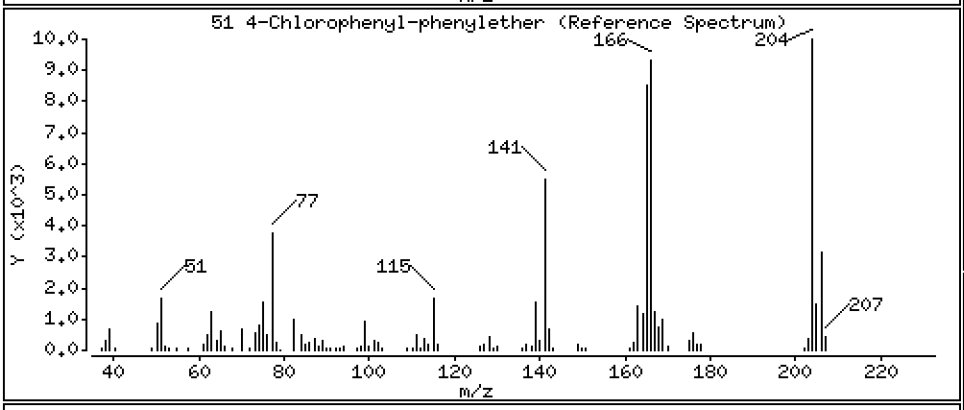
Column diameter: 0.25

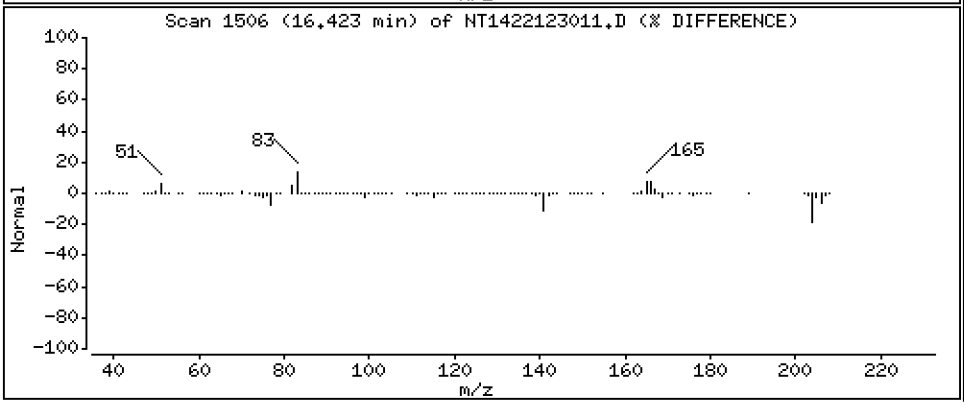
51 4-Chlorophenyl-phenylether

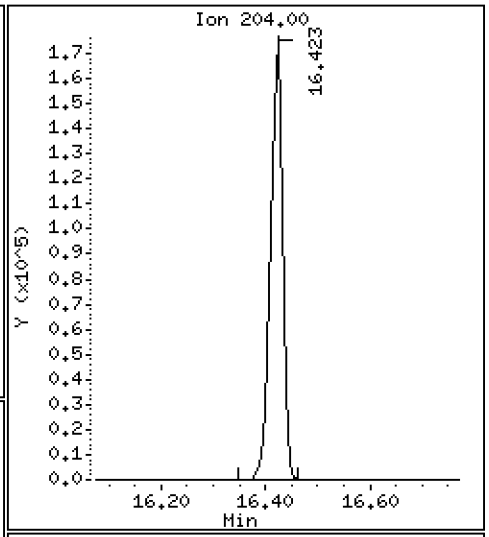
Concentration: 5.094 ug/mL

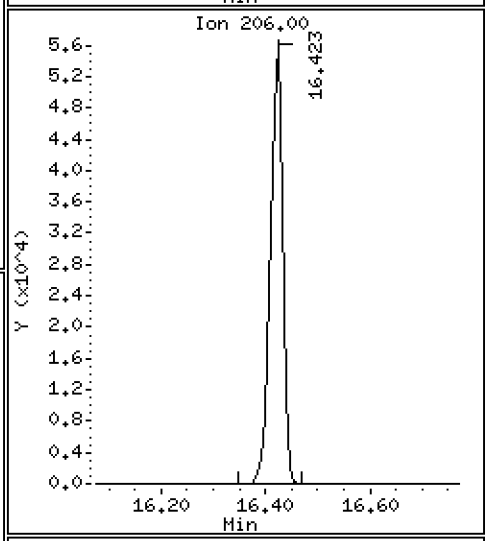


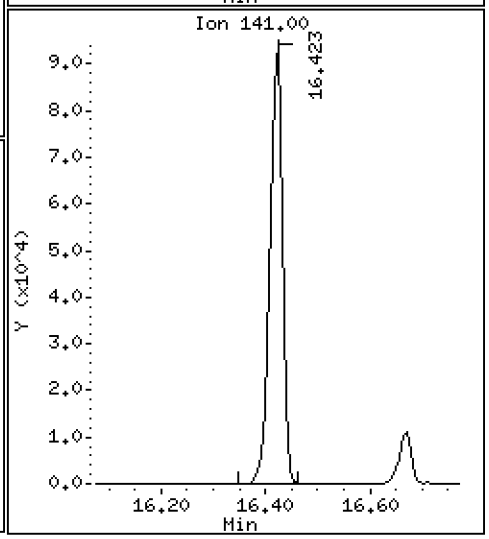












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

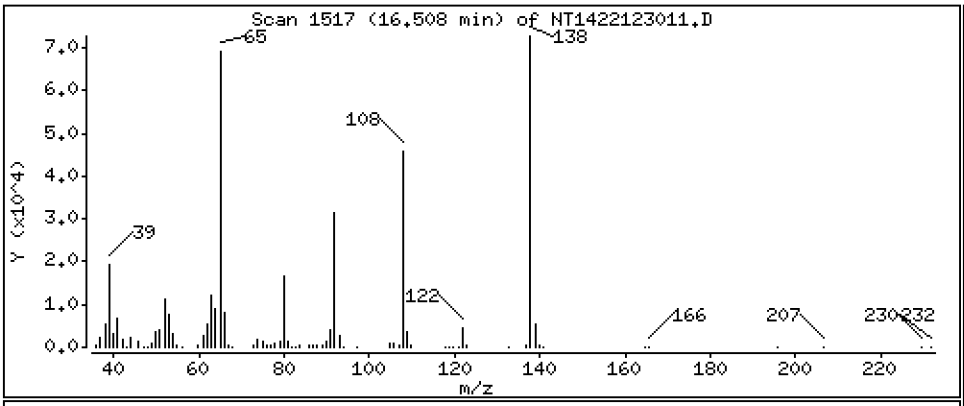
Operator: VTS

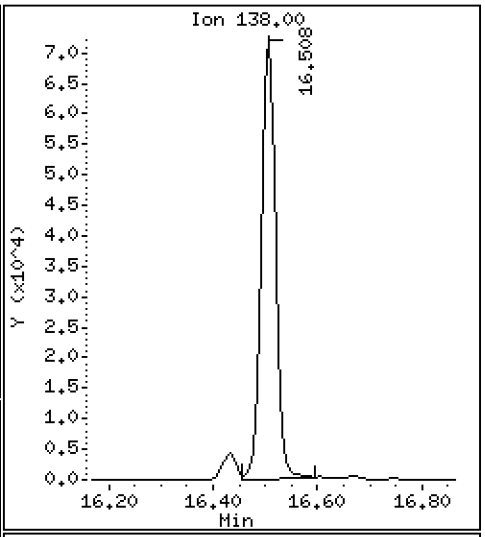
Column phase: ZB-5msi

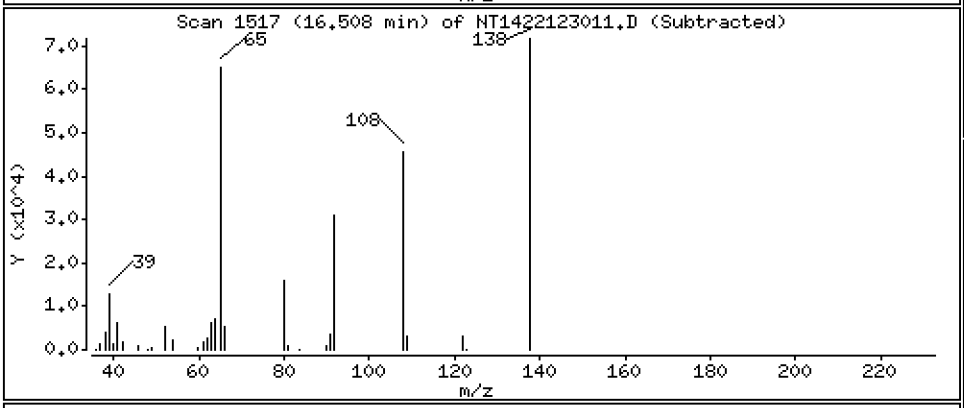
Column diameter: 0.25

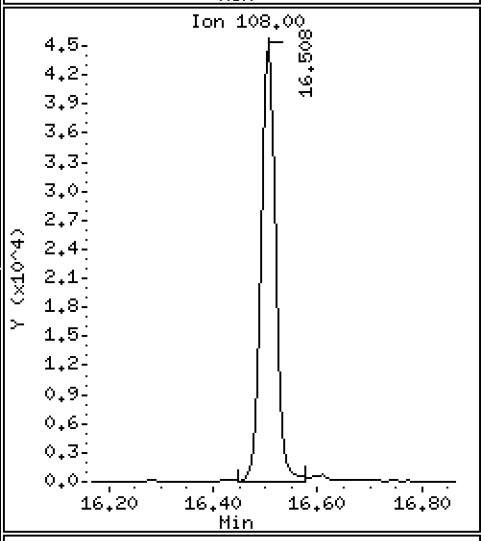
52 4-Nitroaniline

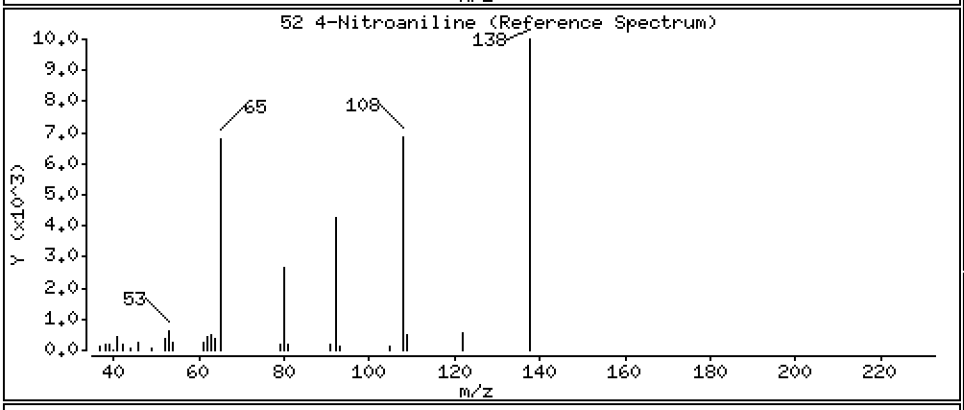
Concentration: 4.733 ug/mL

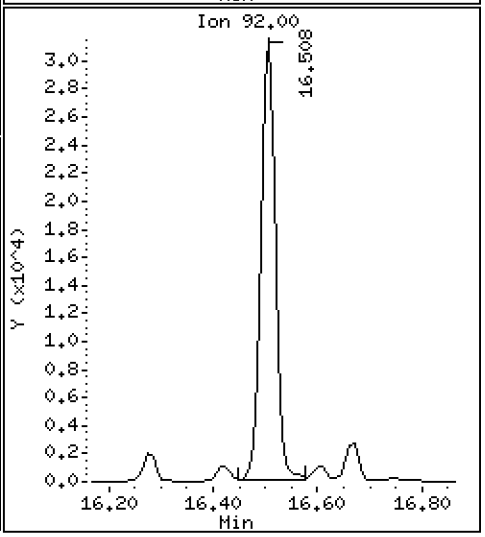


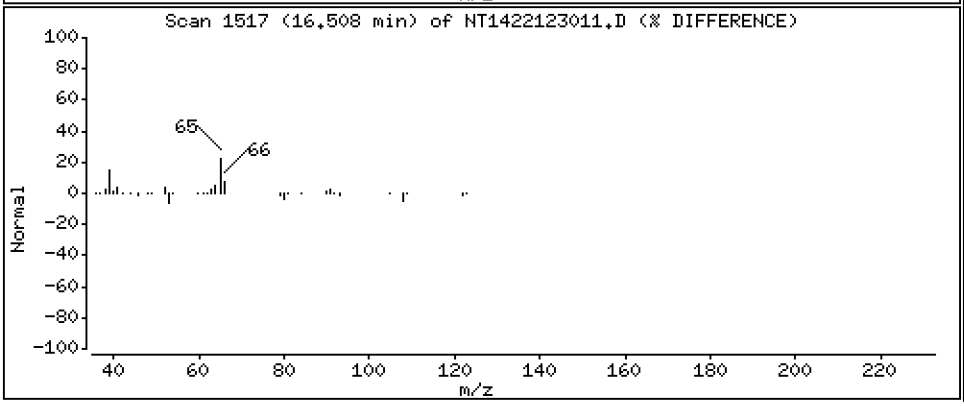












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

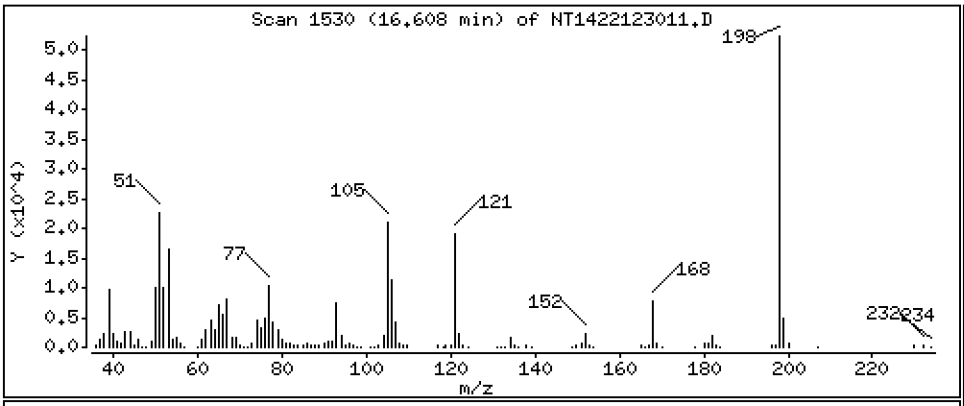
Operator: VTS

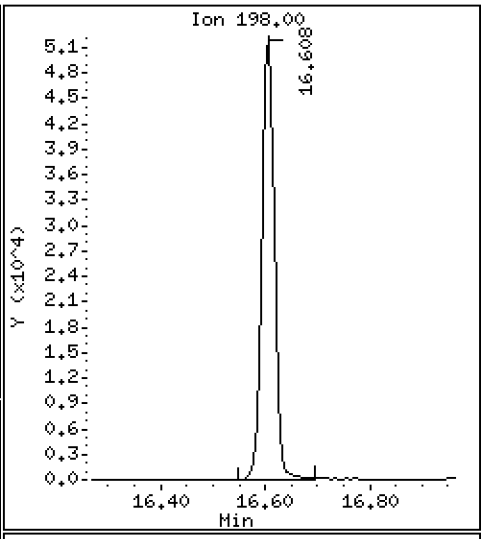
Column phase: ZB-5msi

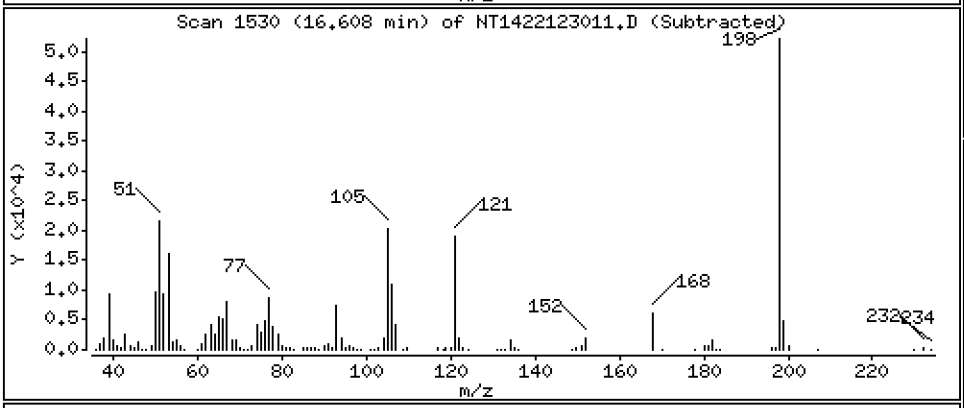
Column diameter: 0.25

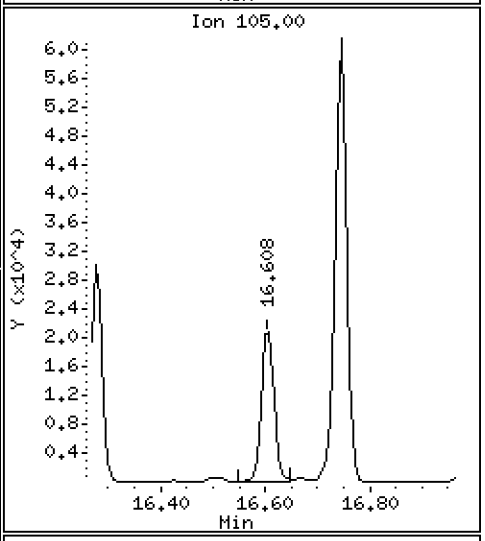
53 4,6-Dinitro-2-methylphenol

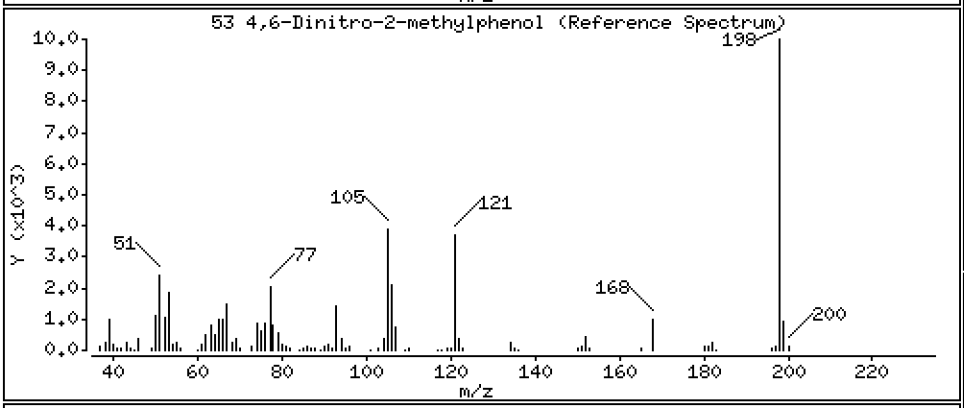
Concentration: 4.082 ug/mL

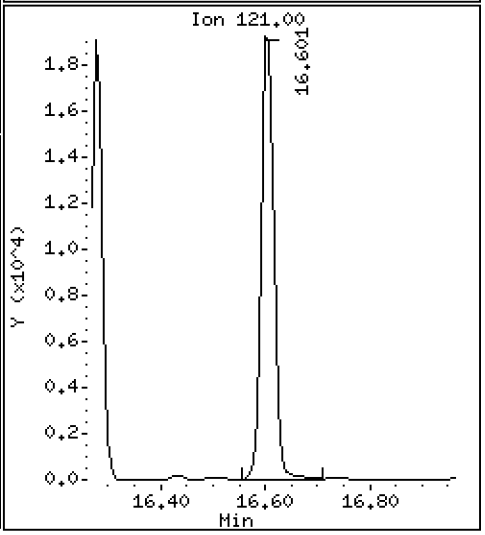


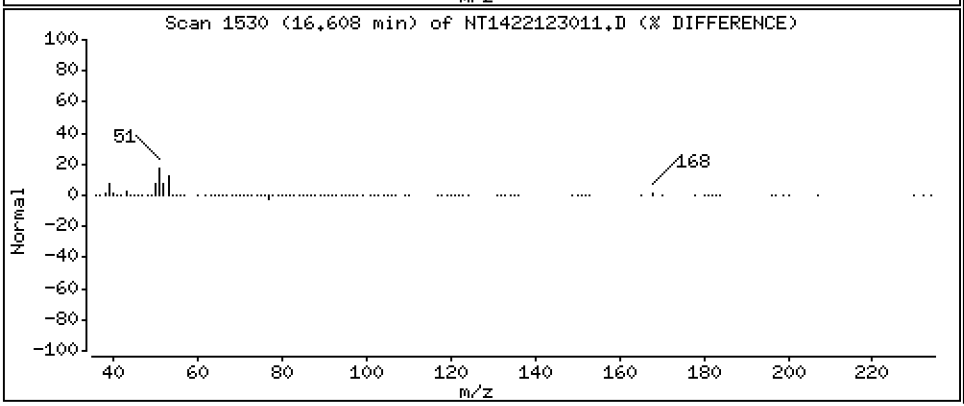












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

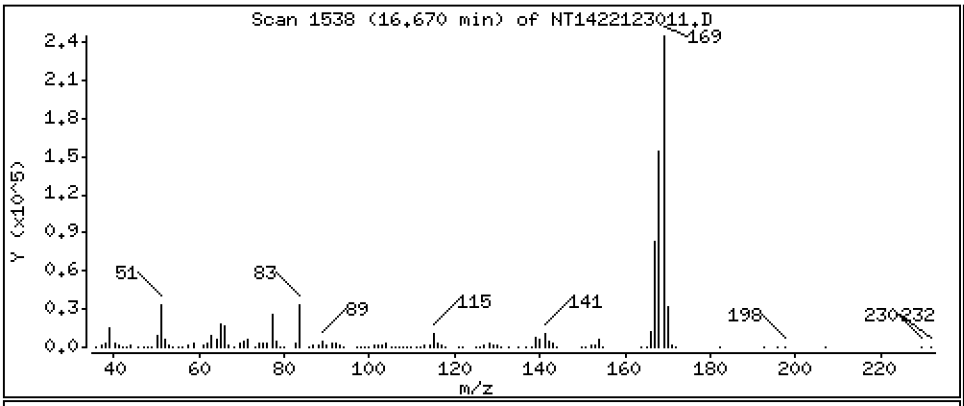
Operator: VTS

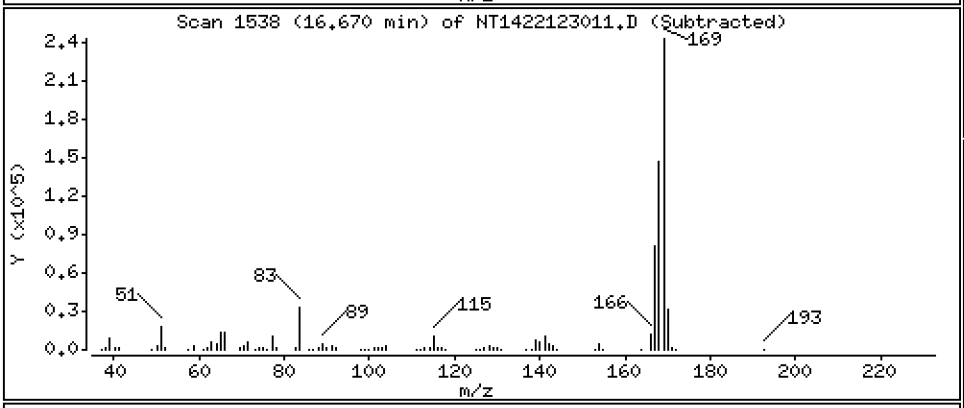
Column phase: ZB-5msi

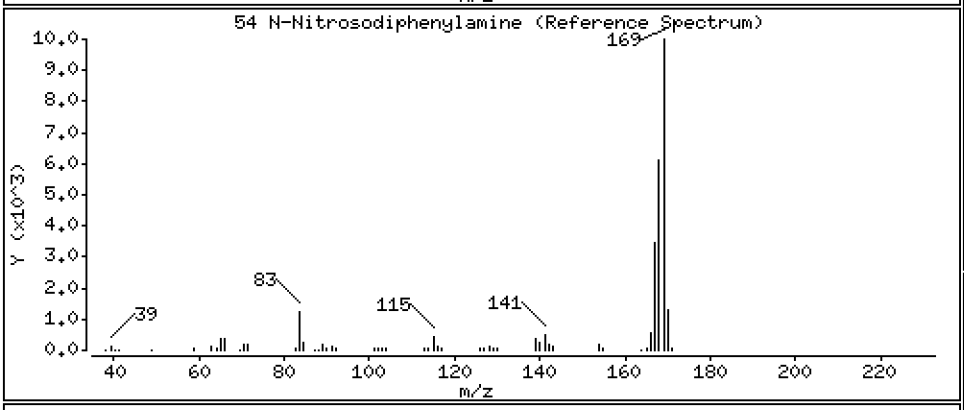
Column diameter: 0.25

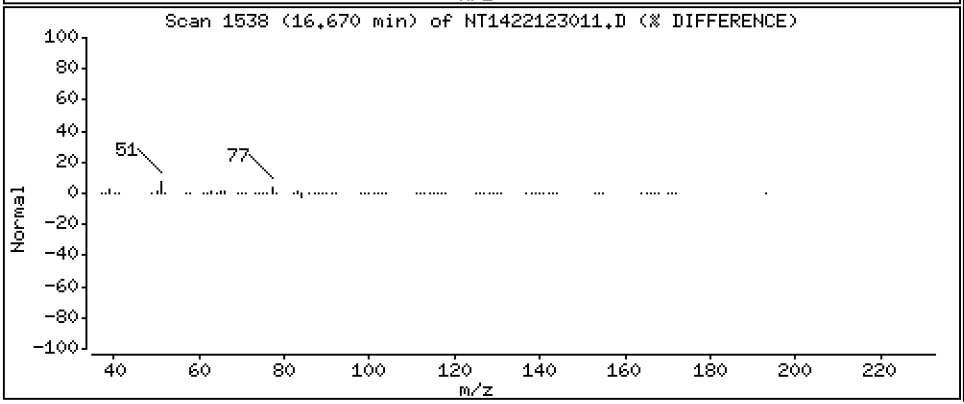
54 N-Nitrosodiphenylamine

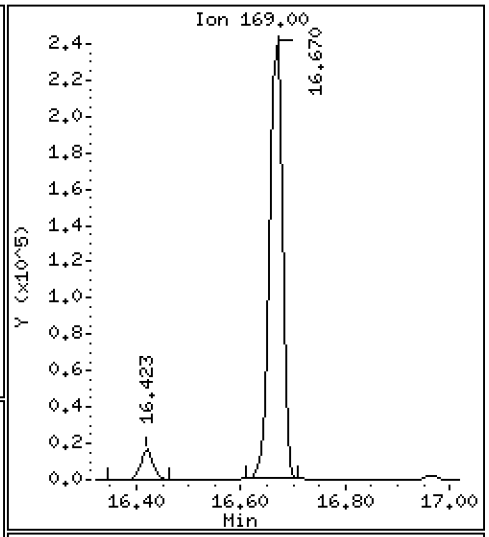
Concentration: 4.775 ug/mL

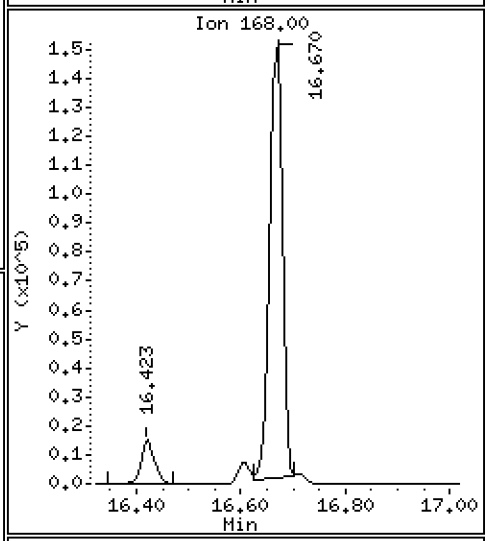


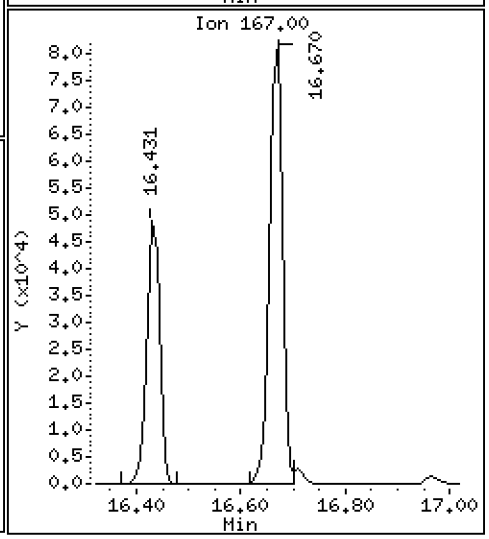












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

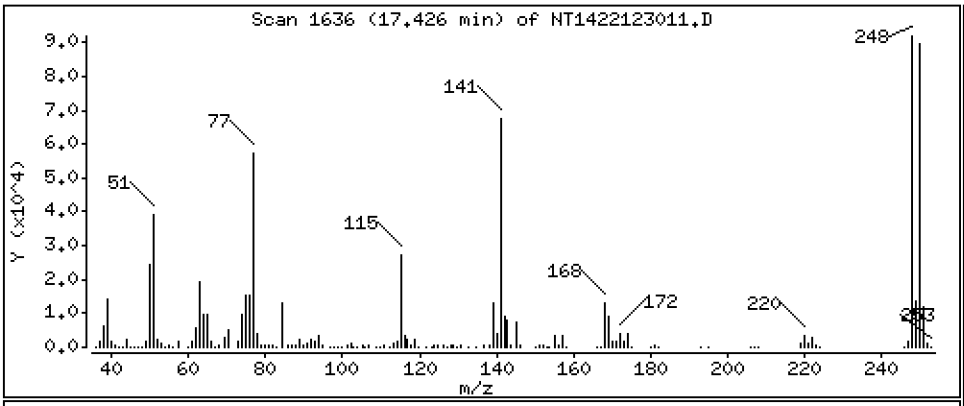
Operator: VTS

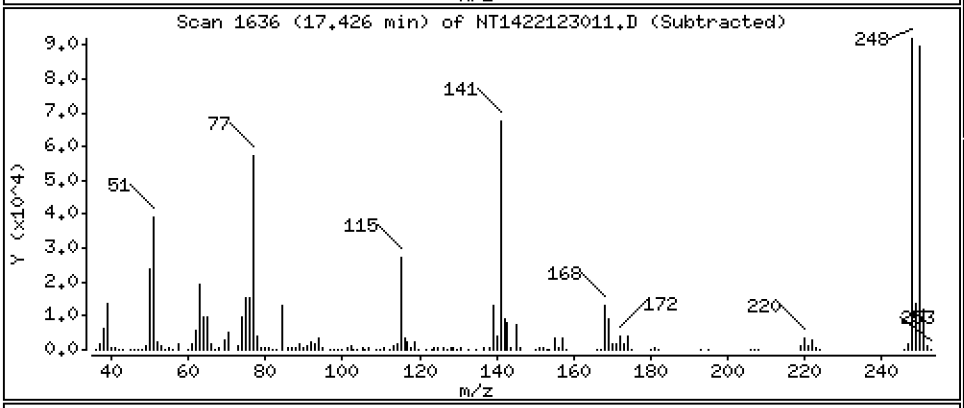
Column phase: ZB-5msi

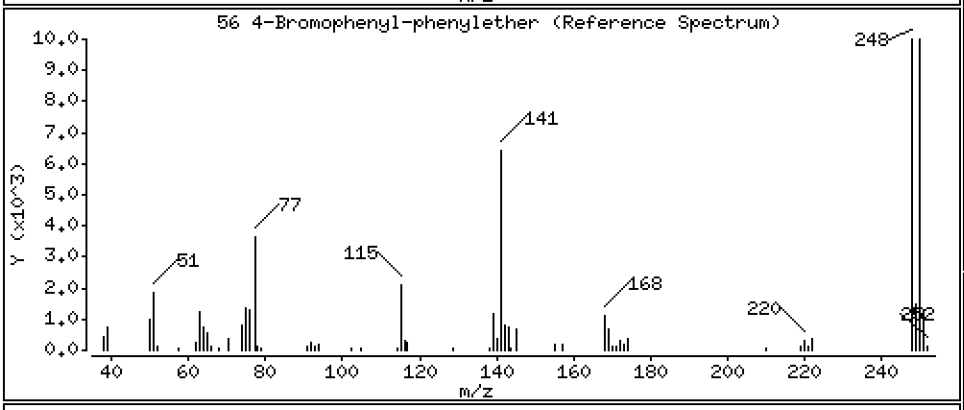
Column diameter: 0.25

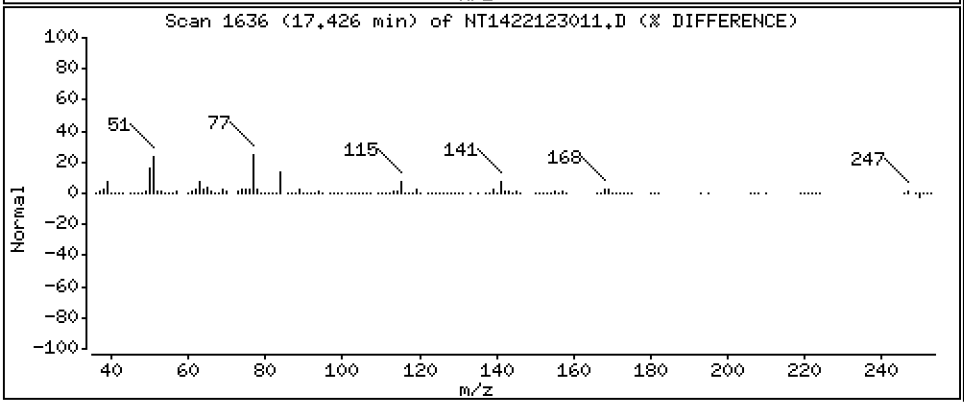
56 4-Bromophenyl-phenylether

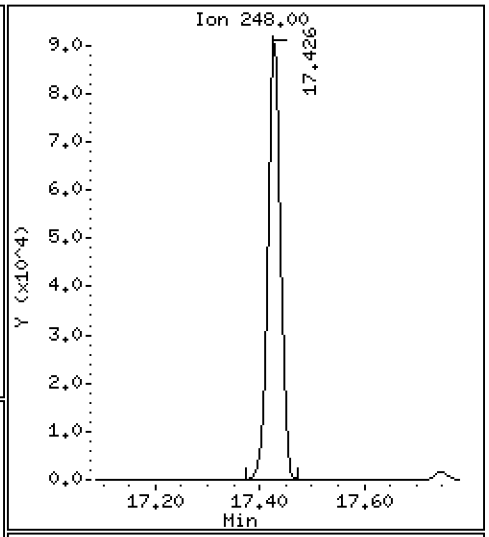
Concentration: 4.938 ug/mL

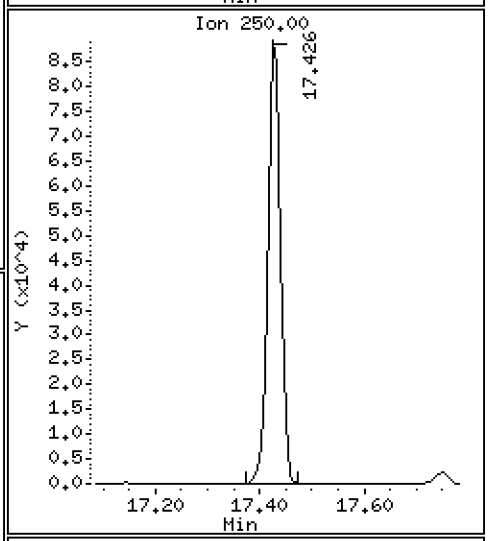


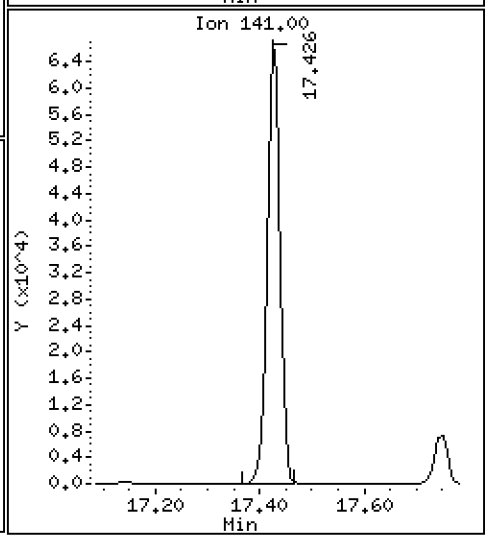












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

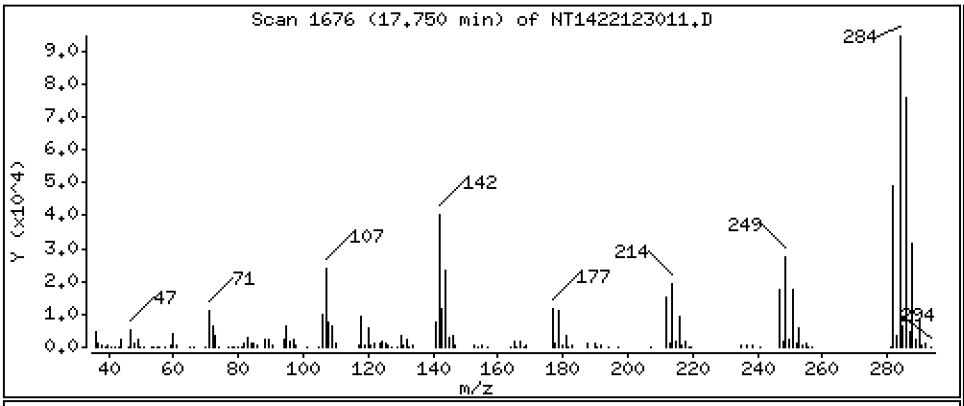
Operator: VTS

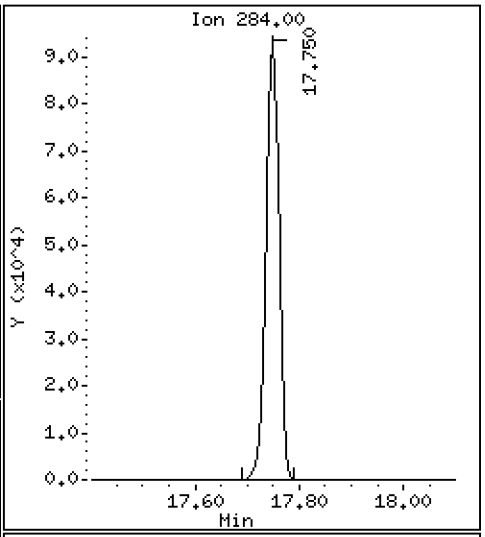
Column phase: ZB-5msi

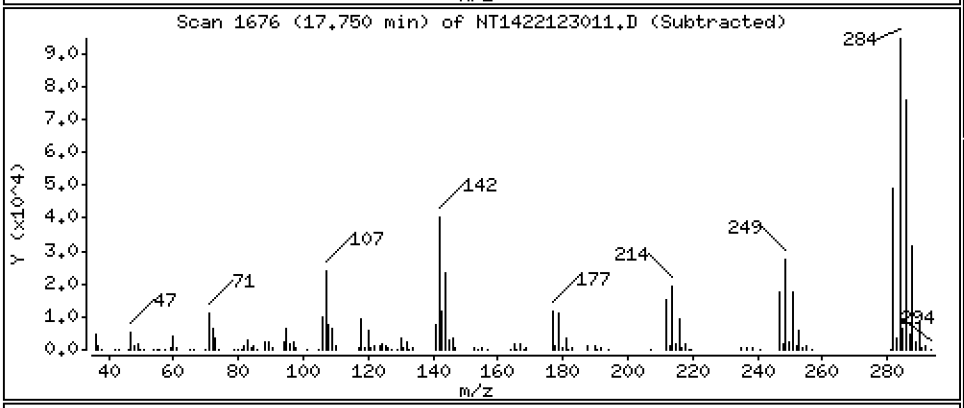
Column diameter: 0.25

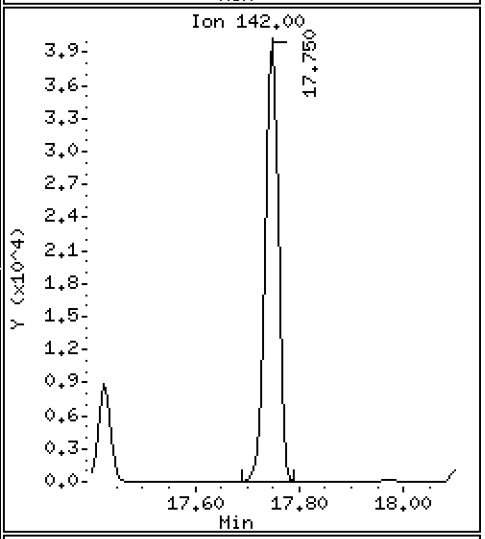
57 Hexachlorobenzene

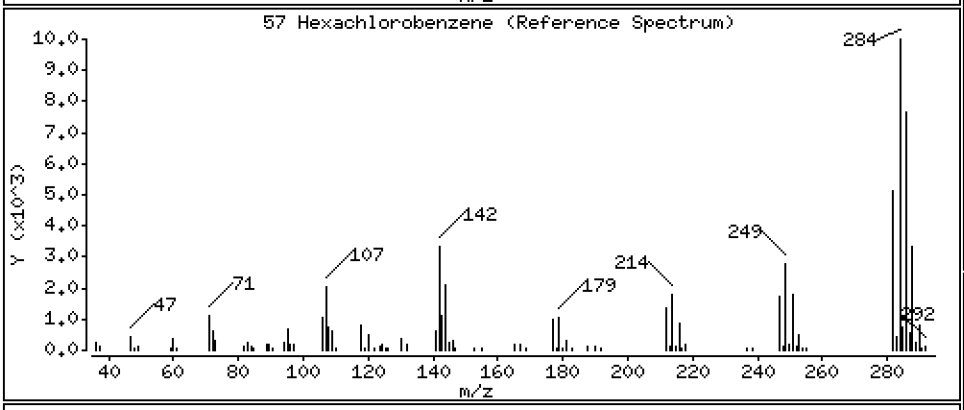
Concentration: 4.553 ug/mL

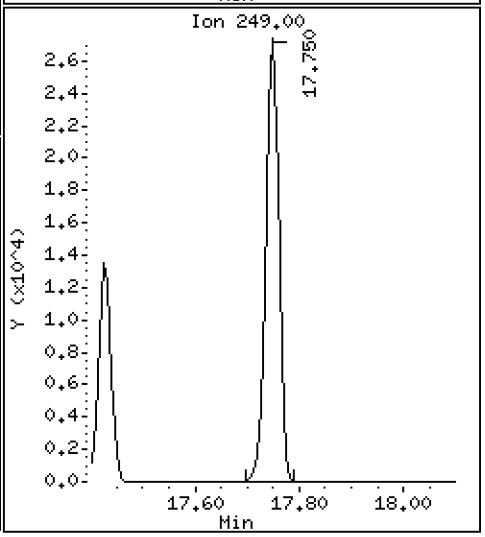


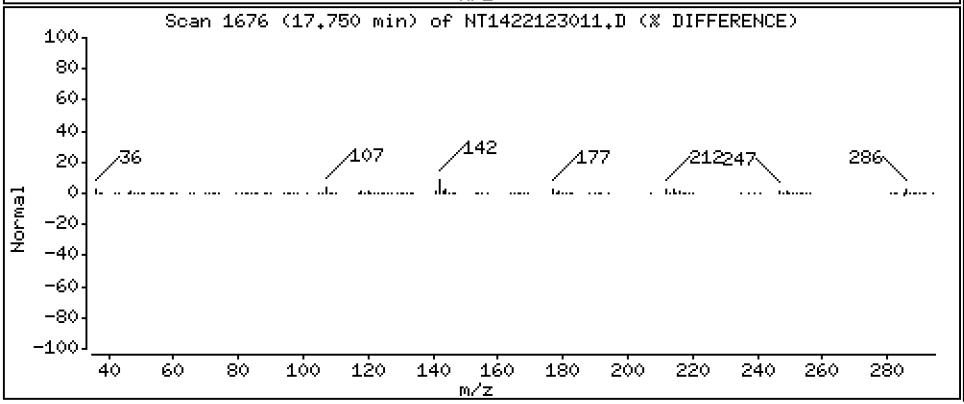












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

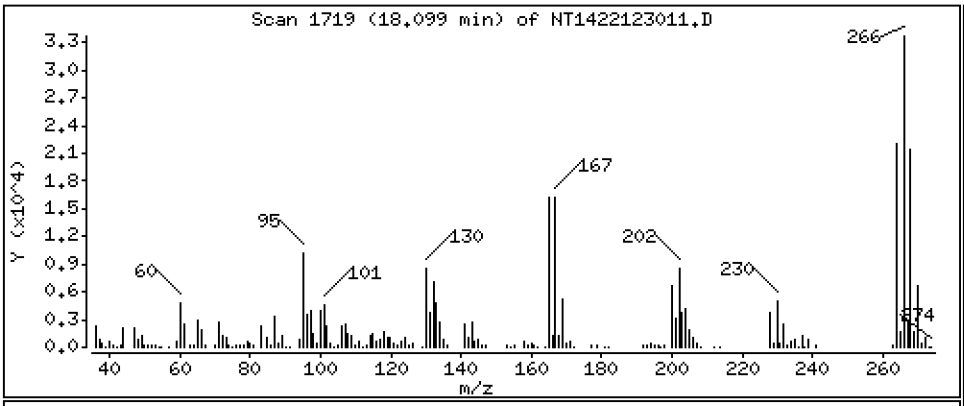
Operator: VTS

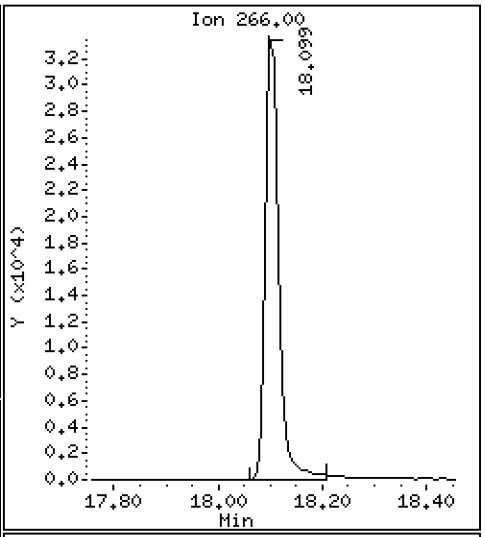
Column phase: ZB-5msi

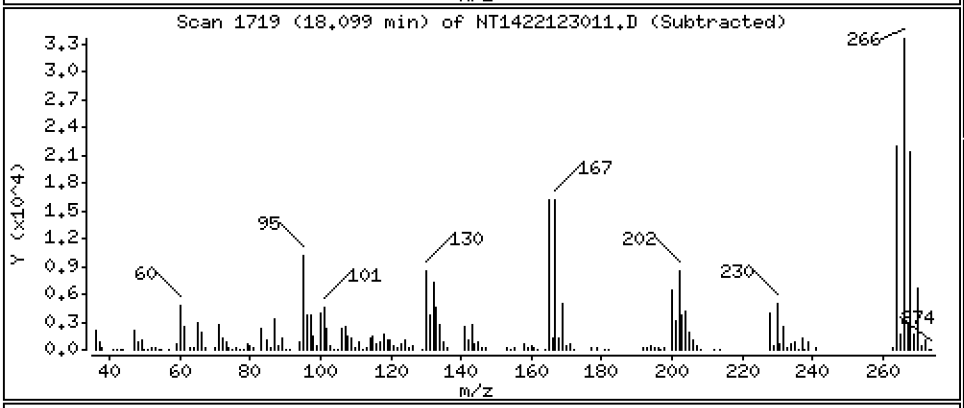
Column diameter: 0.25

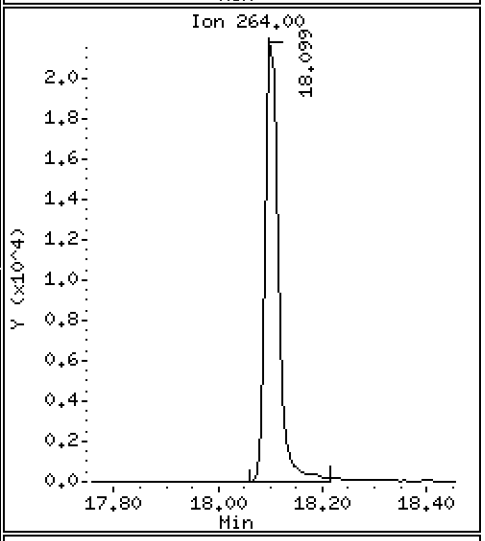
58 Pentachlorophenol

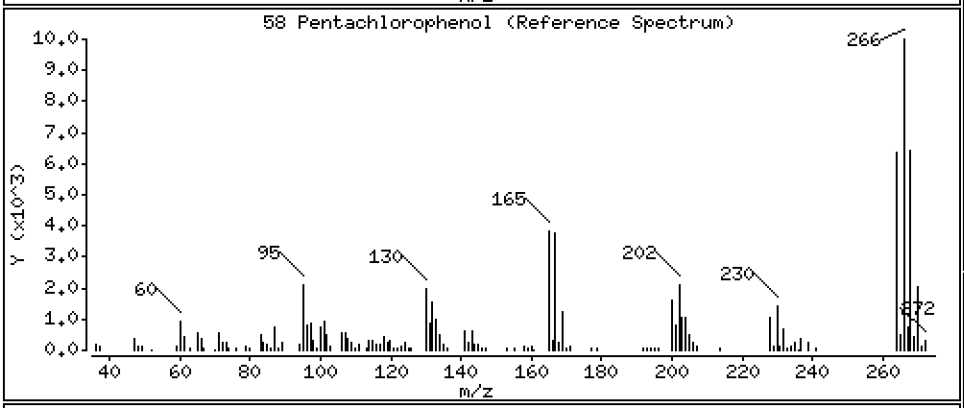
Concentration: 3.796 ug/mL

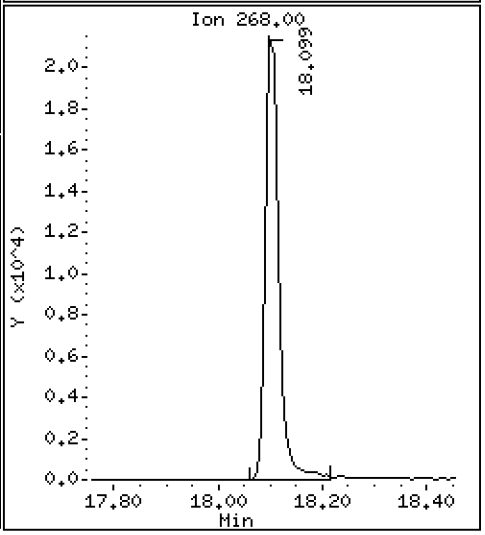


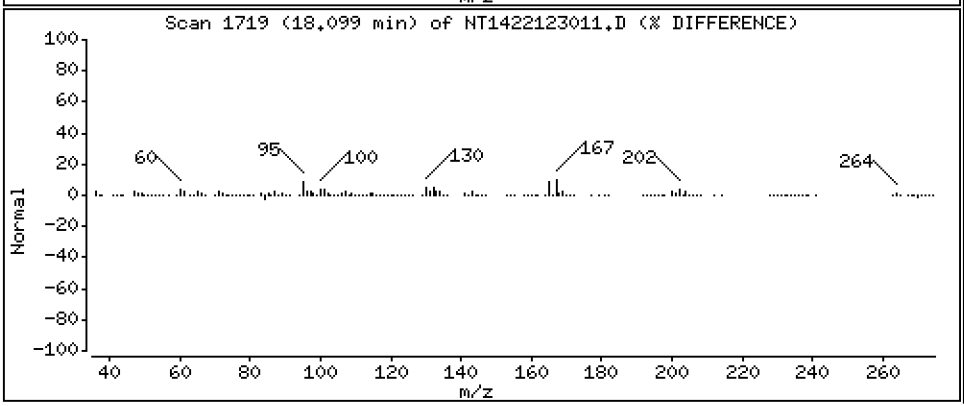












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

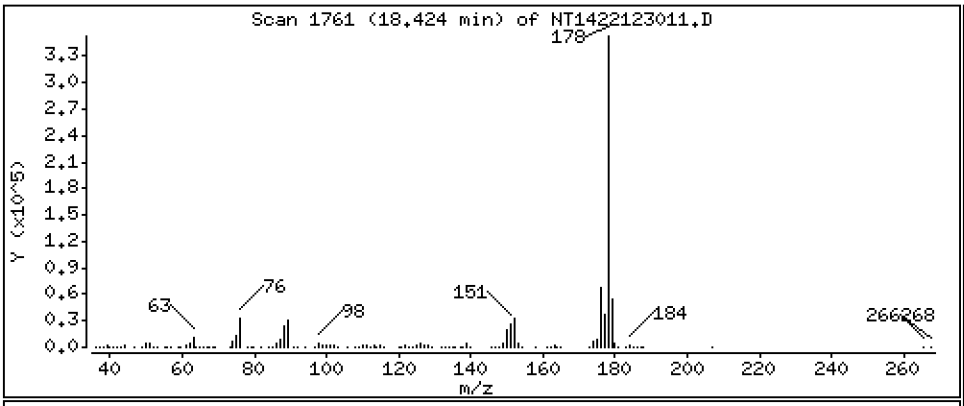
Operator: VTS

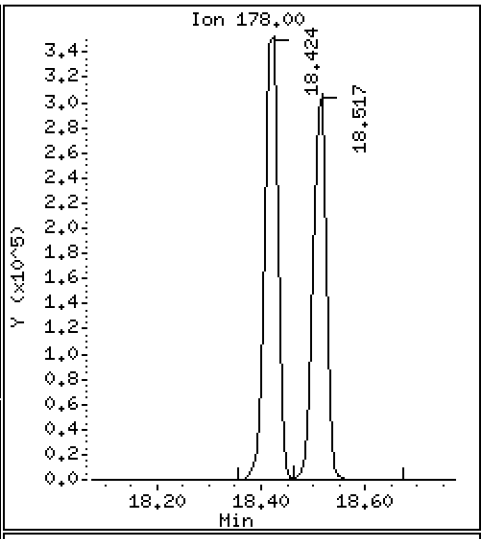
Column phase: ZB-5msi

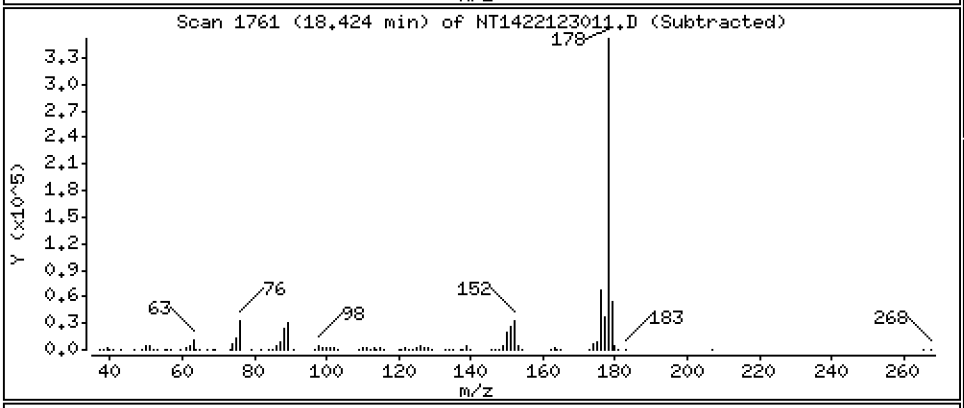
Column diameter: 0.25

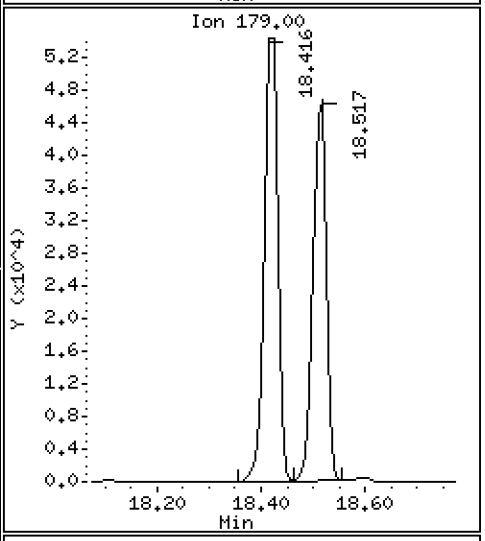
60 Phenanthrene

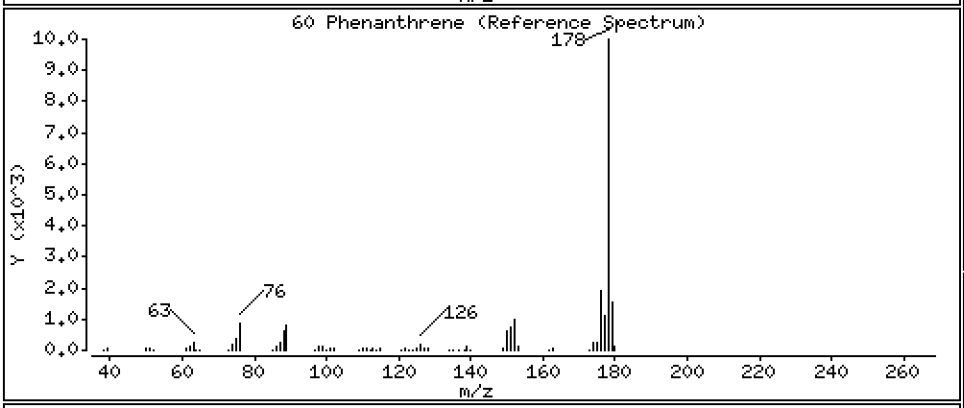
Concentration: 4.767 ug/mL

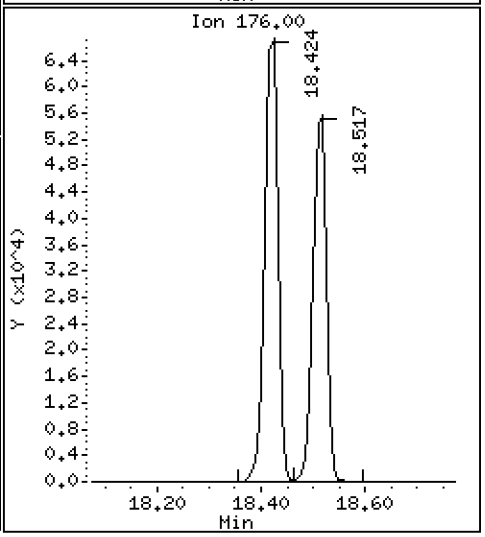


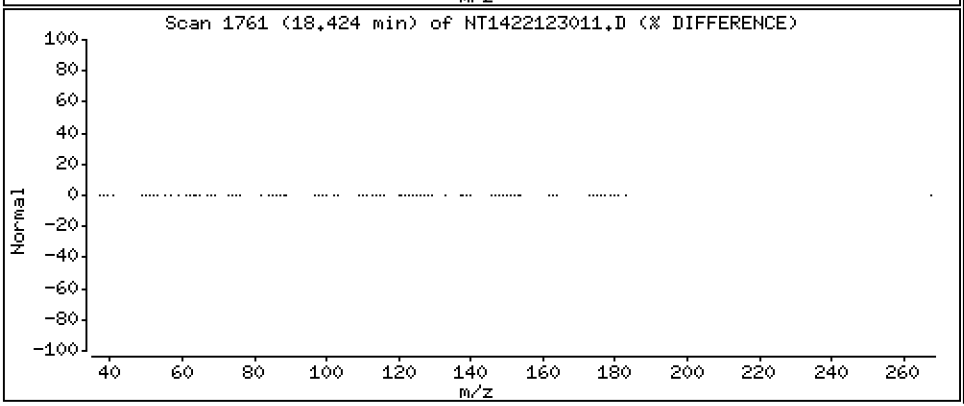












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

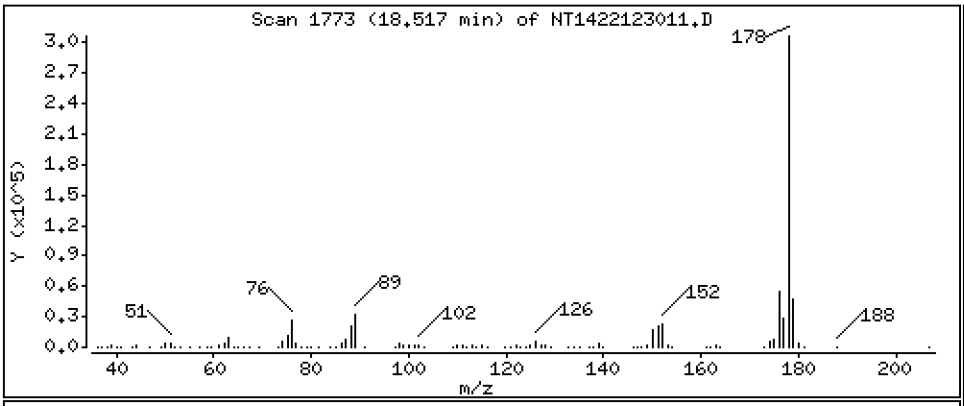
Operator: VTS

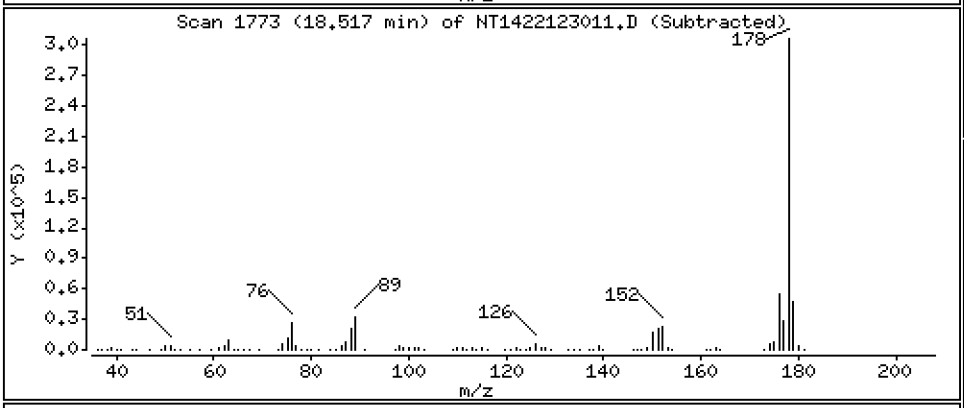
Column phase: ZB-5msi

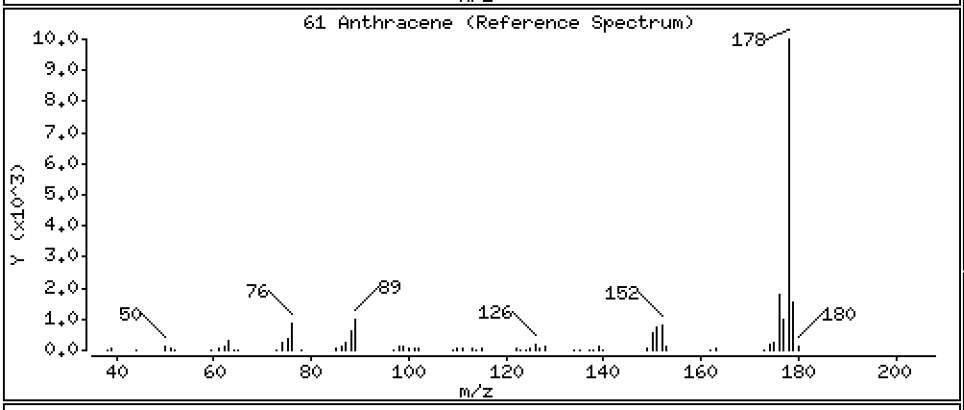
Column diameter: 0.25

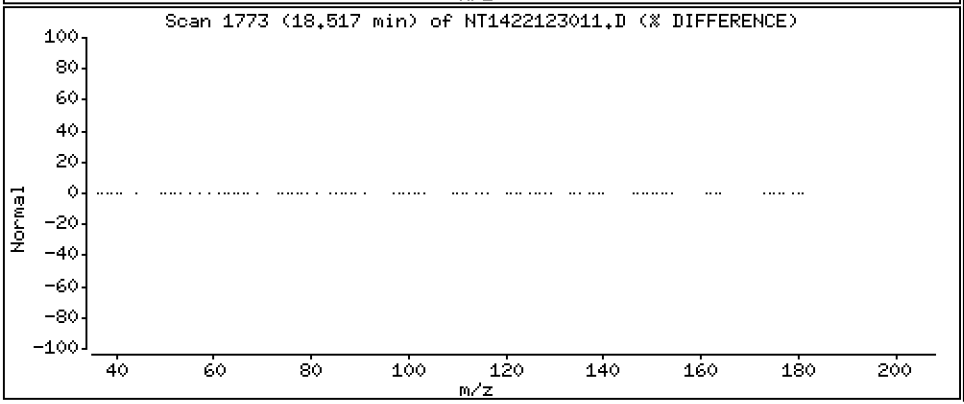
61 Anthracene

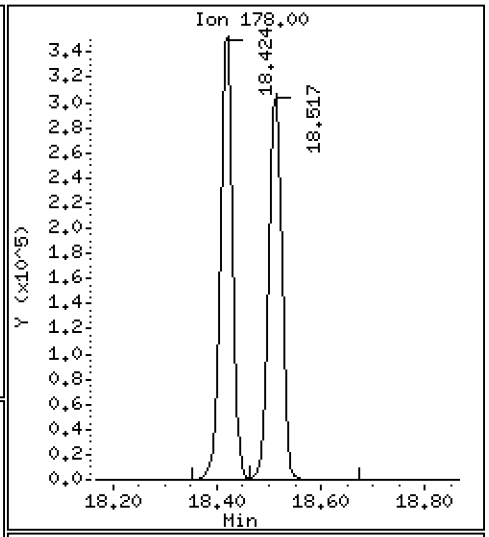
Concentration: 4.373 ug/mL

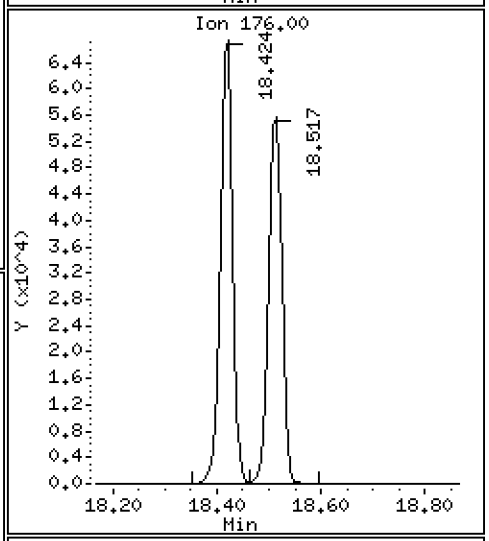


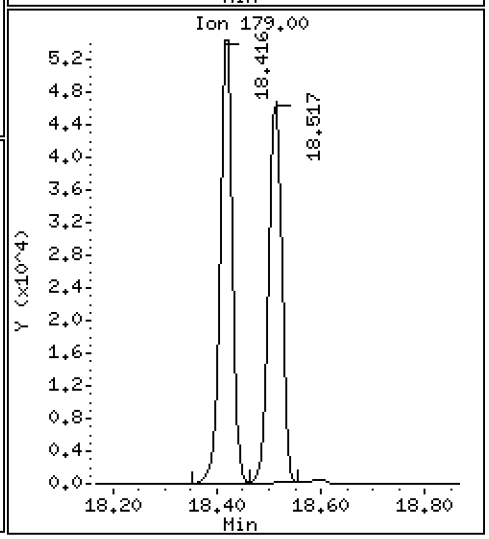












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

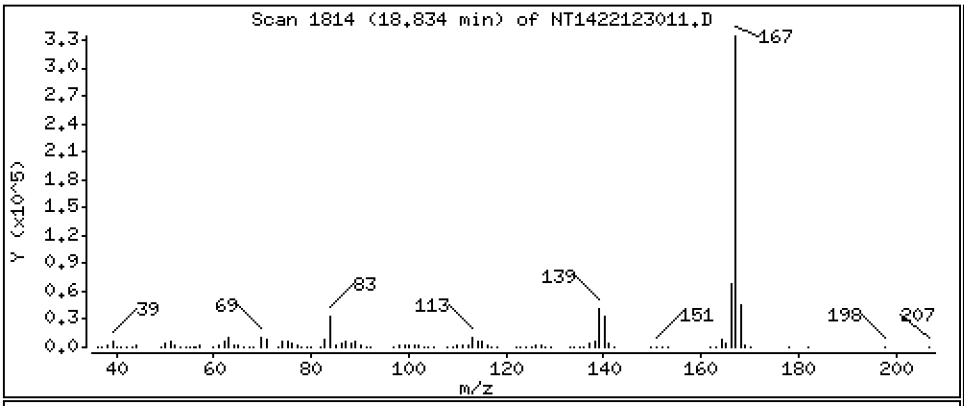
Operator: VTS

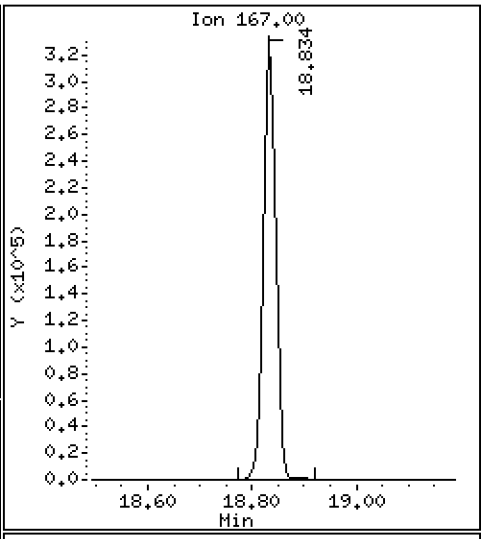
Column phase: ZB-5msi

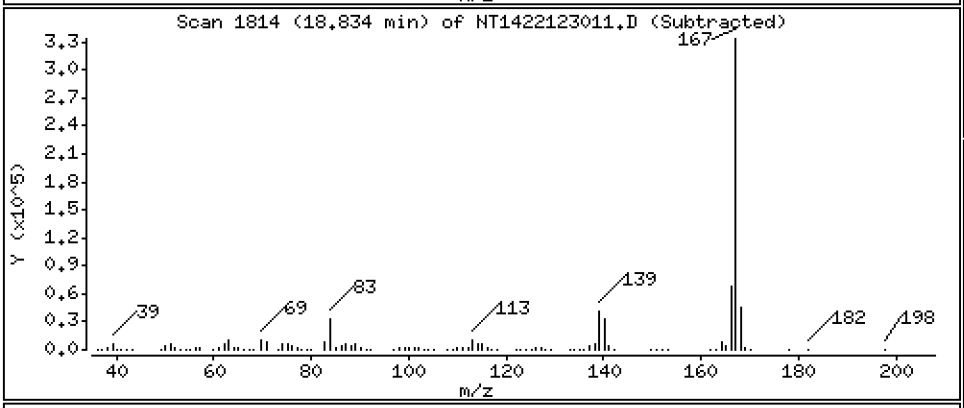
Column diameter: 0.25

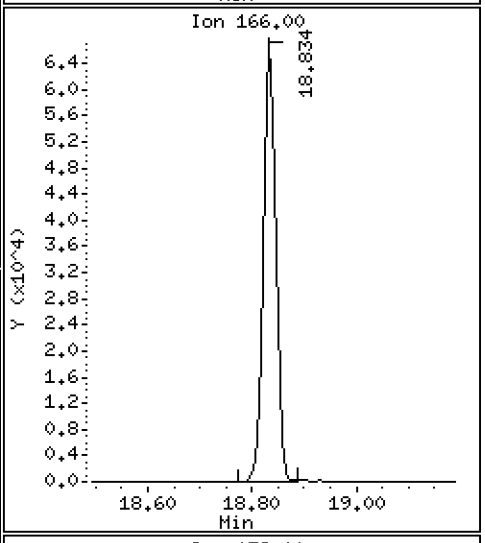
62 Carbazole

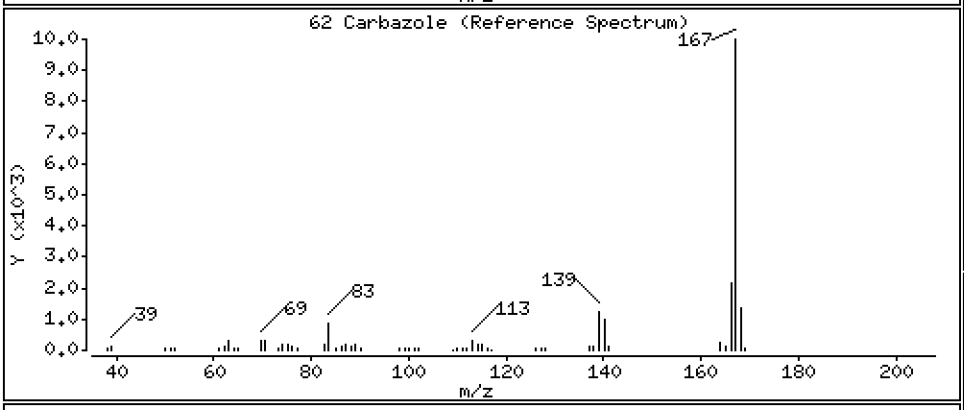
Concentration: 4.620 ug/mL

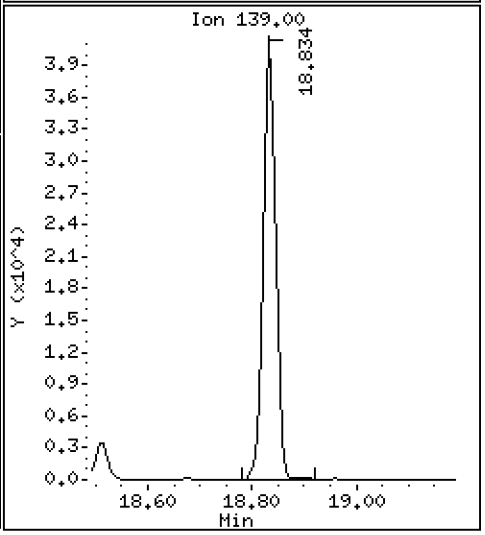


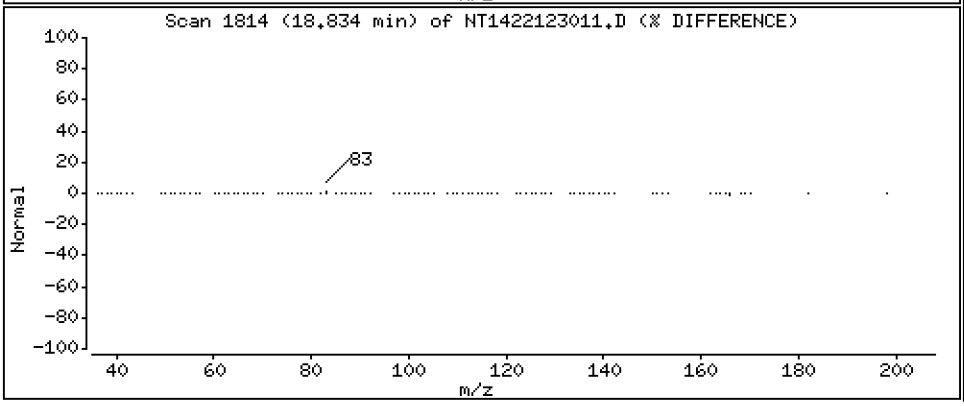












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

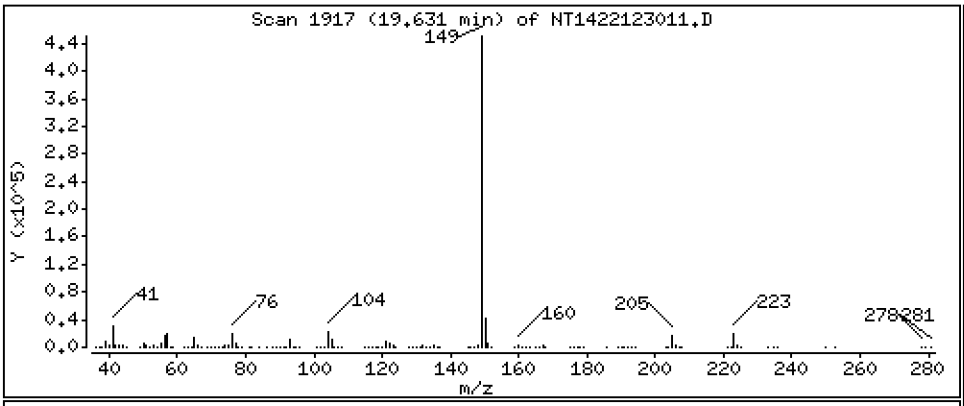
Operator: VTS

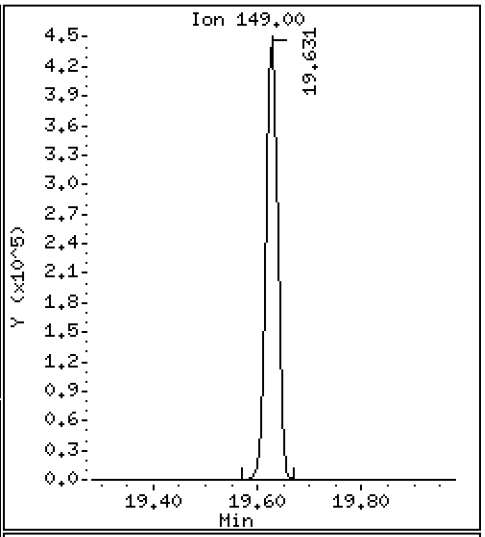
Column phase: ZB-5msi

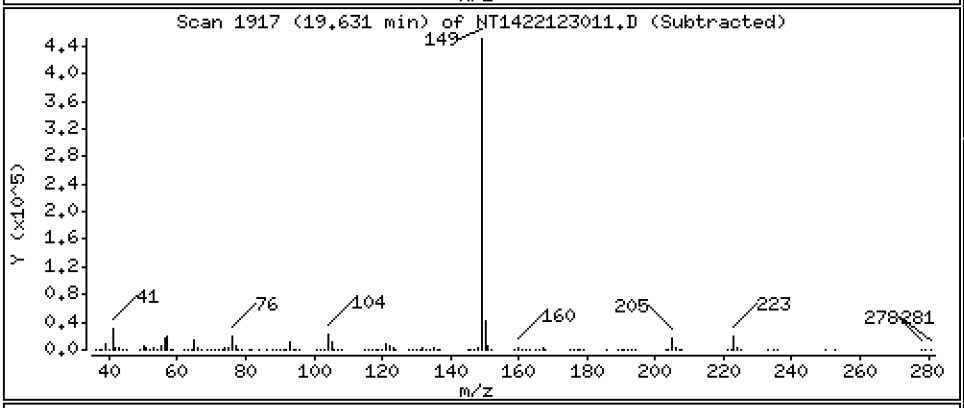
Column diameter: 0.25

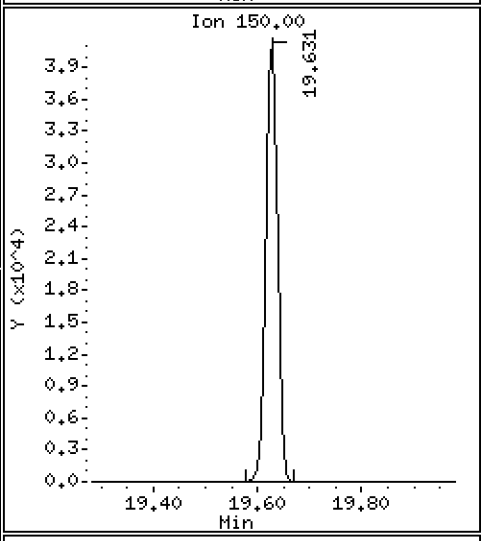
63 Di-n-butylphthalate

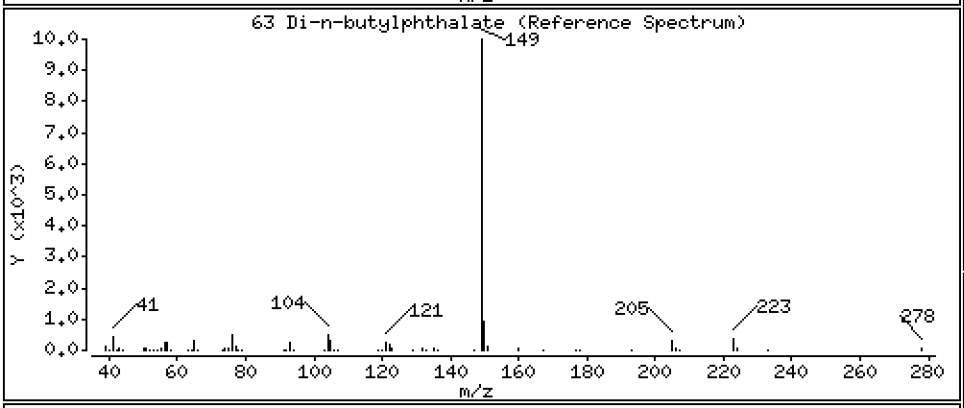
Concentration: 4.931 ug/mL

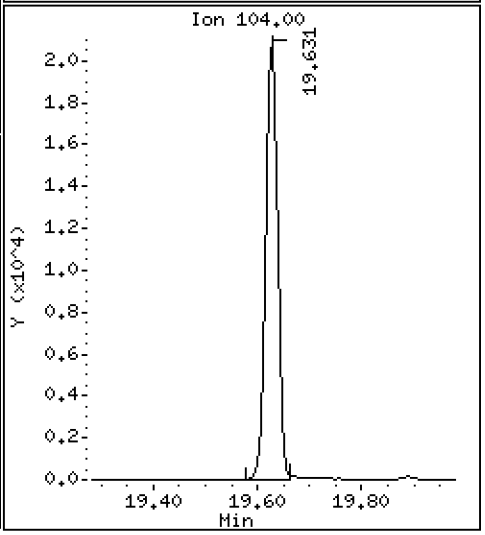


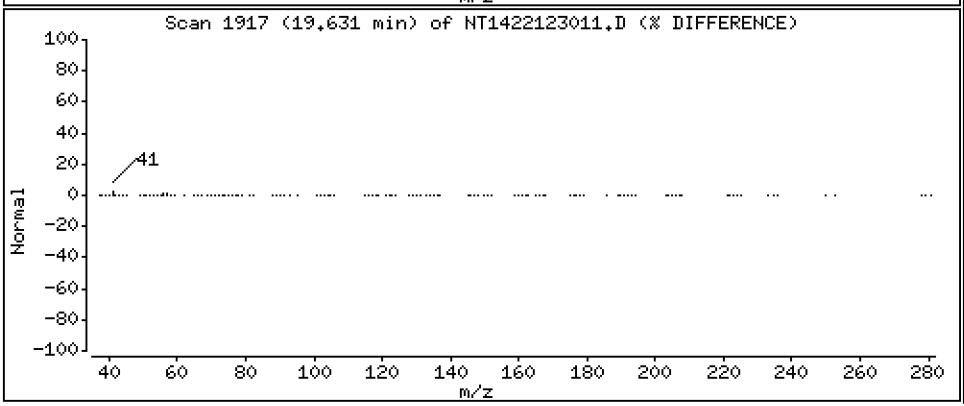












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

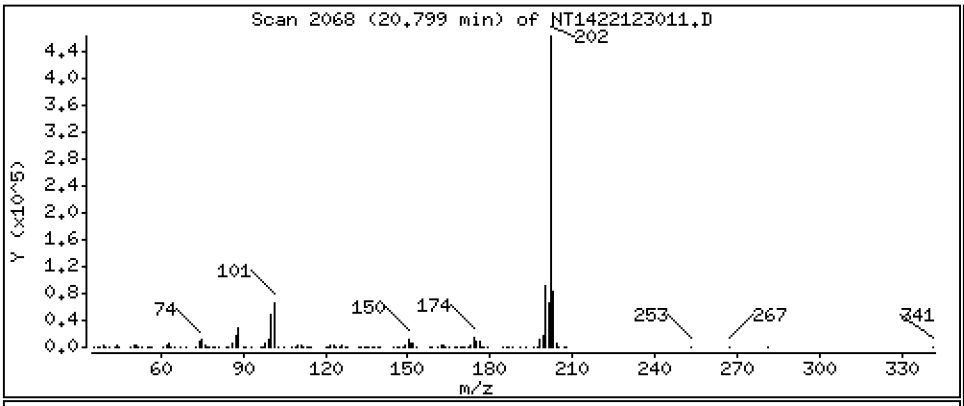
Operator: VTS

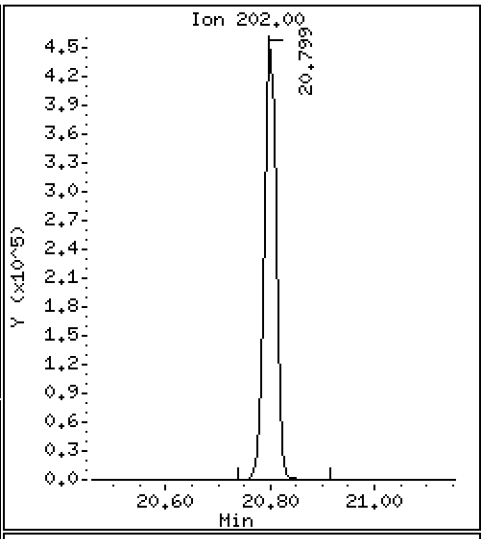
Column phase: ZB-5msi

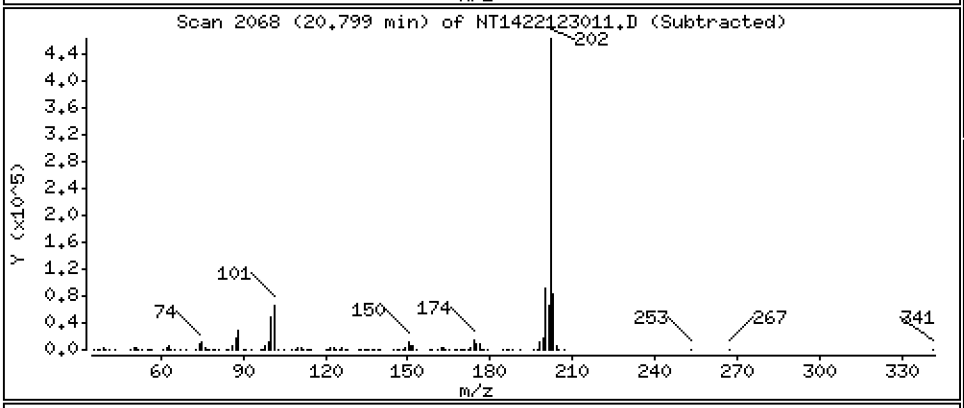
Column diameter: 0.25

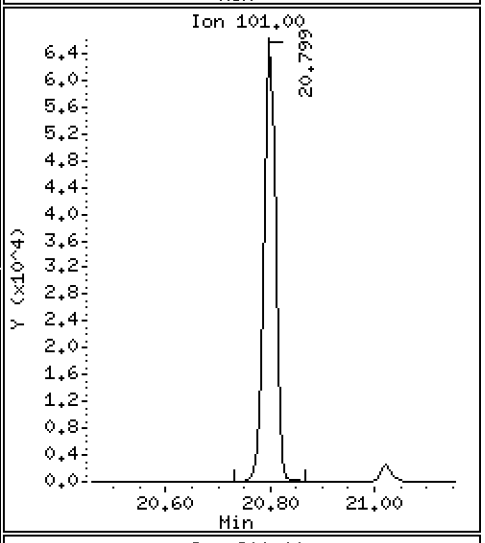
64 Fluoranthene

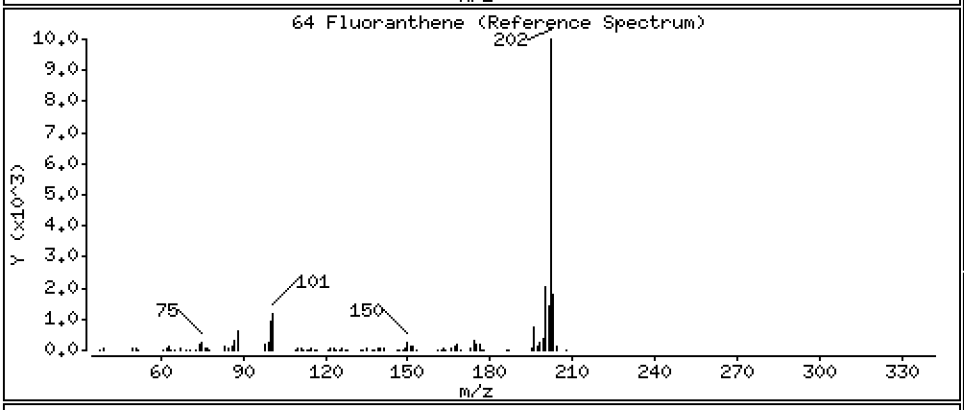
Concentration: 5.090 ug/mL

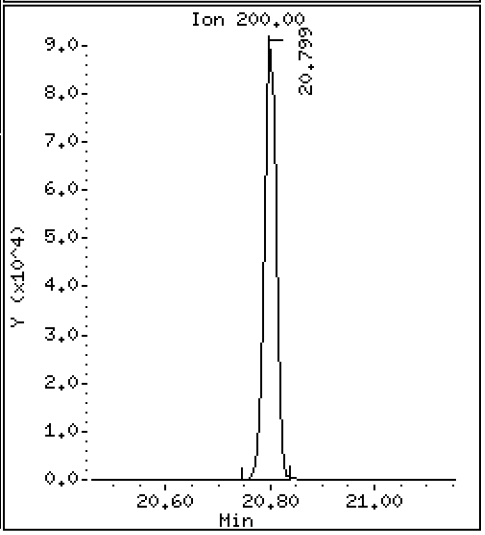


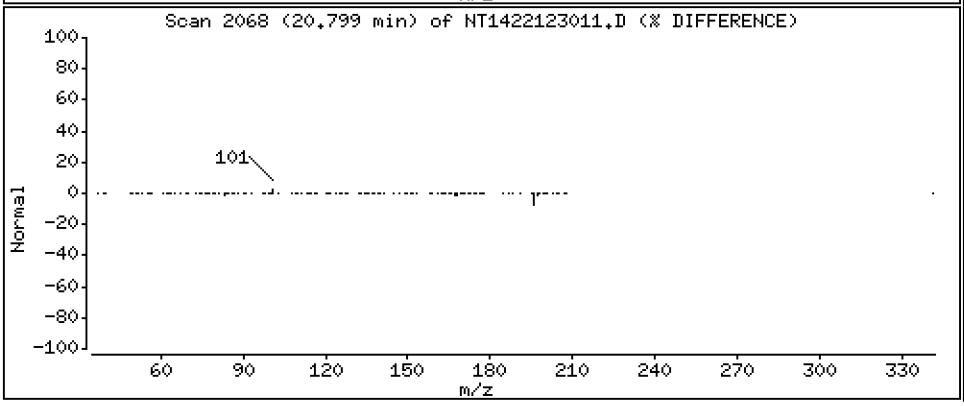












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

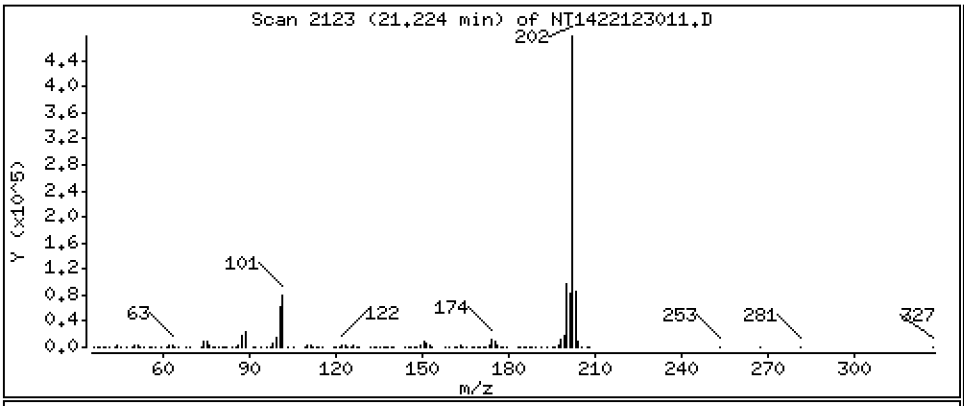
Operator: VTS

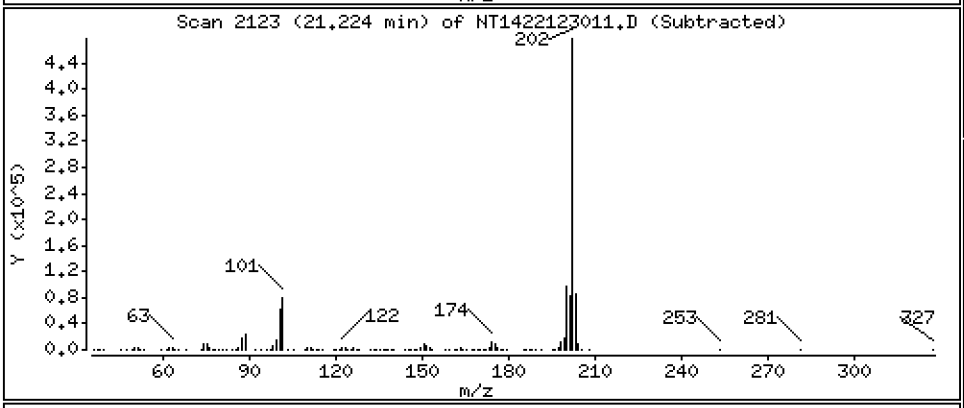
Column phase: ZB-5msi

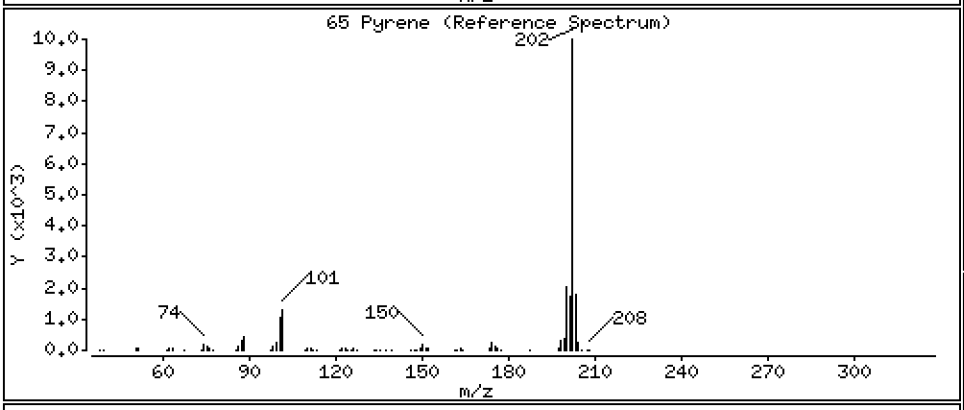
Column diameter: 0.25

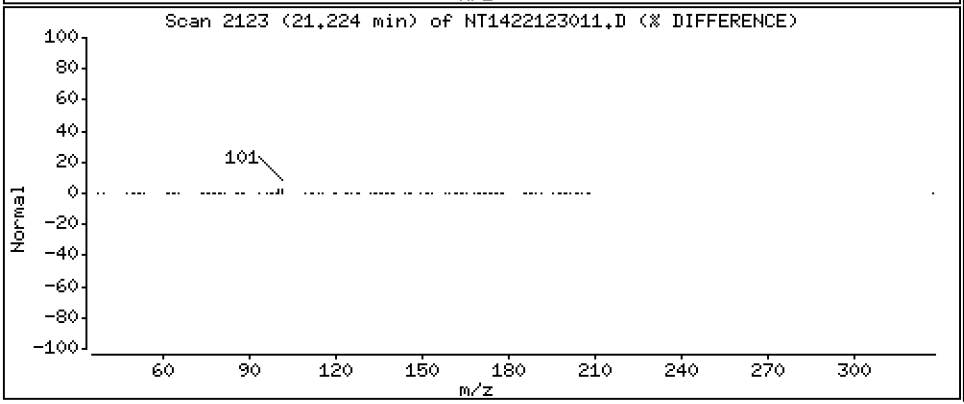
65 Pyrene

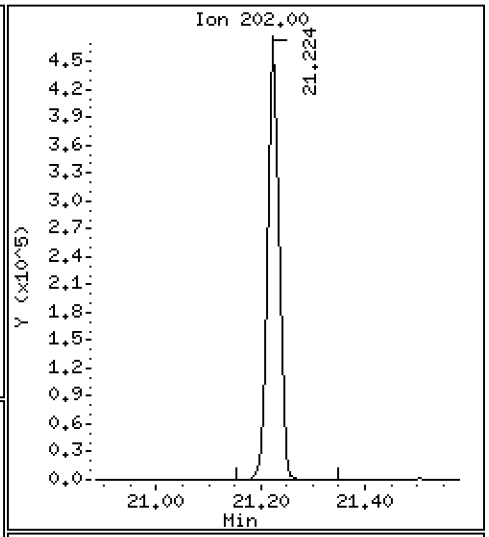
Concentration: 5.022 ug/mL

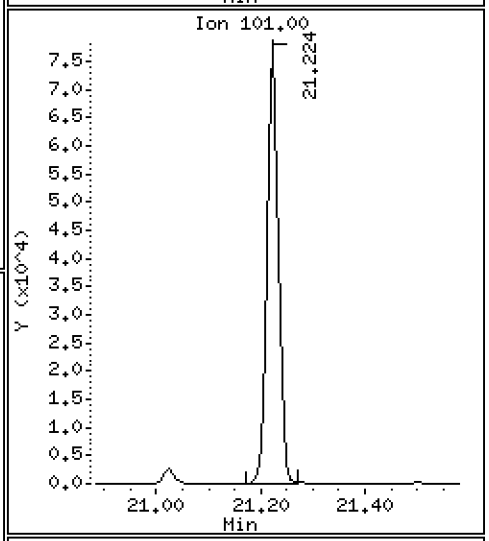


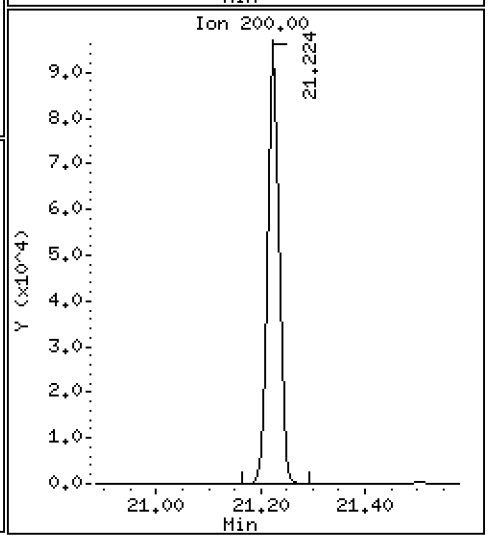












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

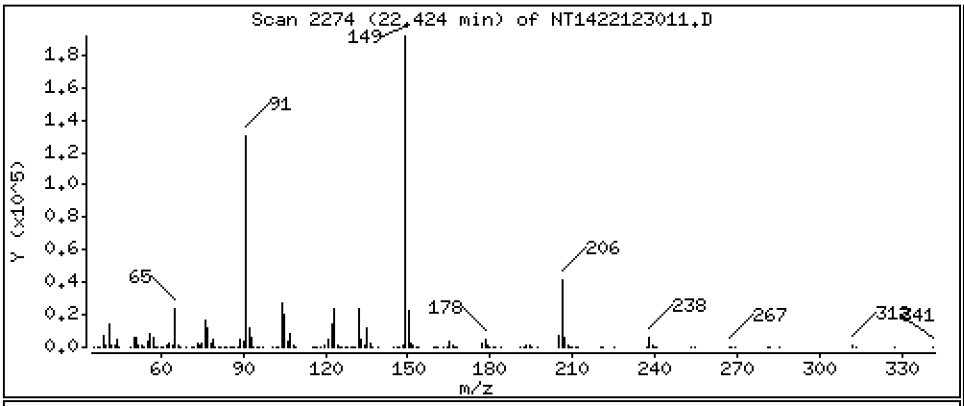
Operator: VTS

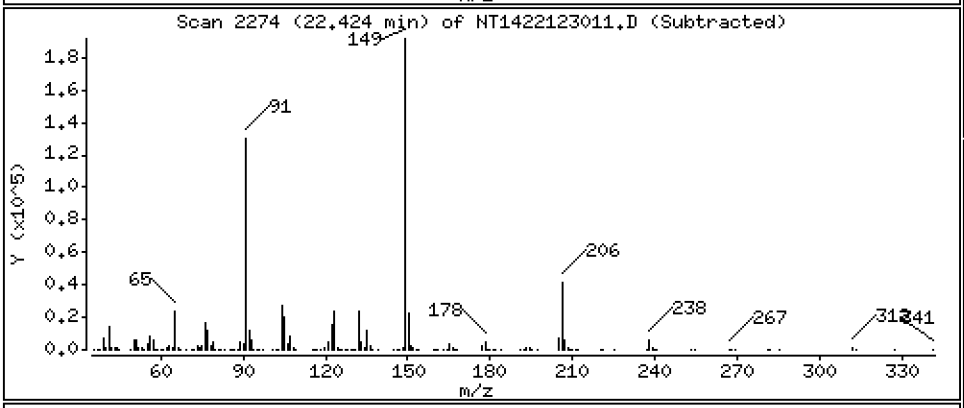
Column phase: ZB-5msi

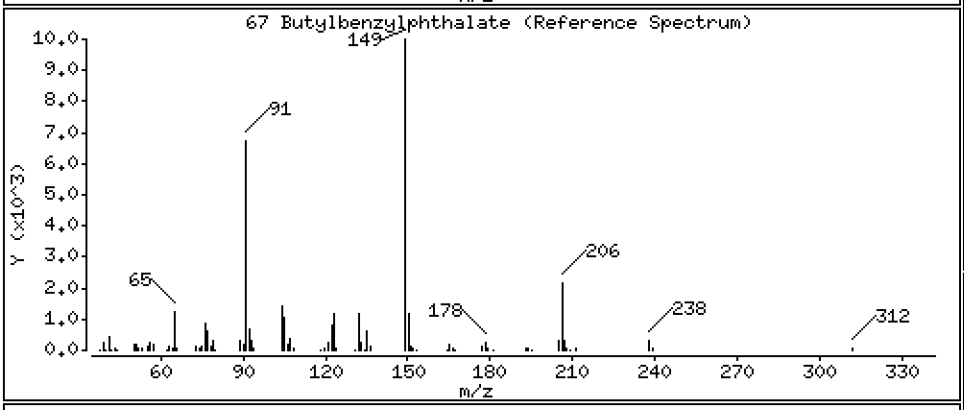
Column diameter: 0.25

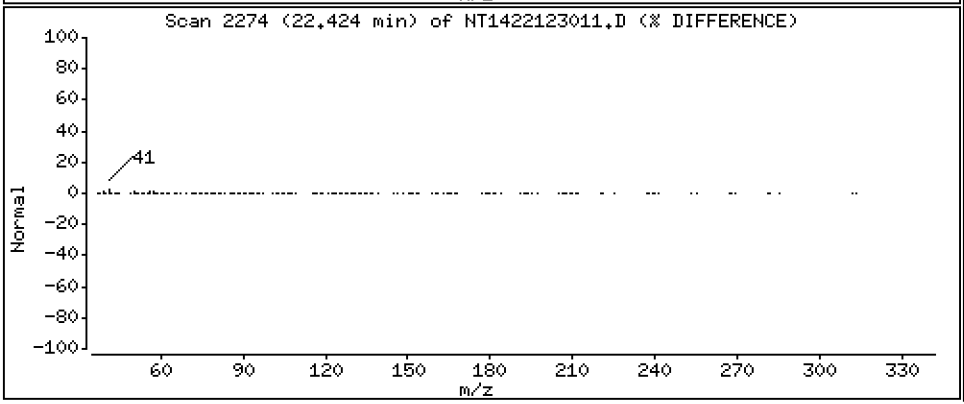
67 Butylbenzylphthalate

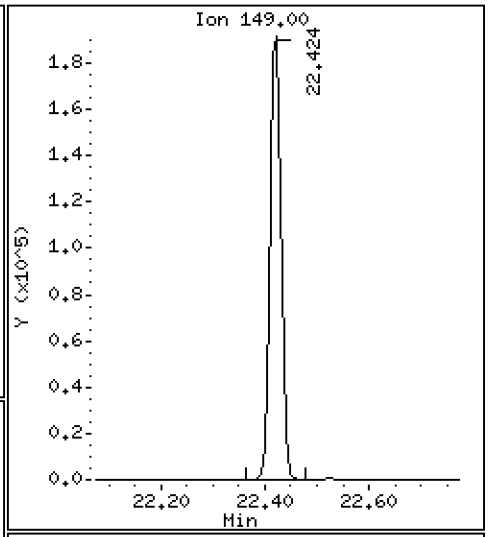
Concentration: 5.005 ug/mL

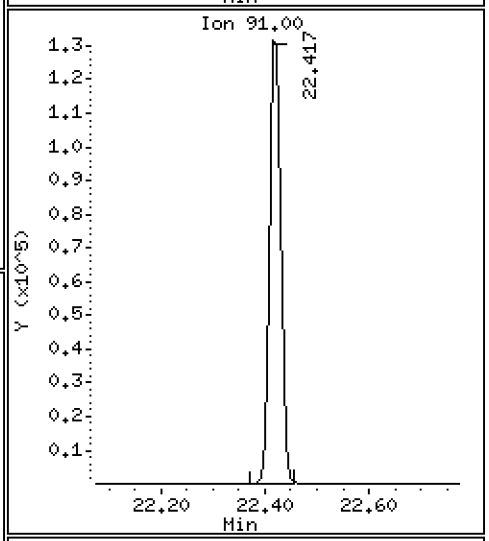


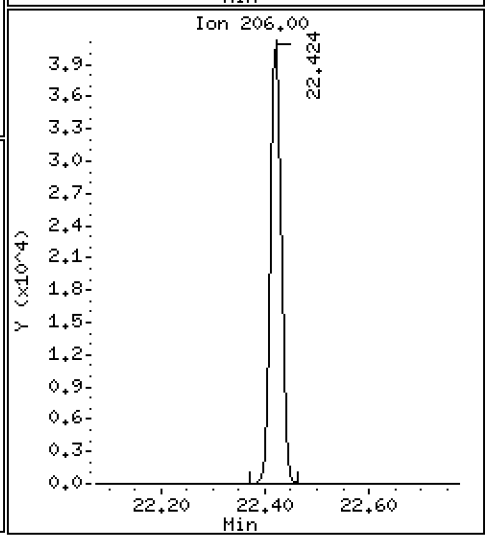












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

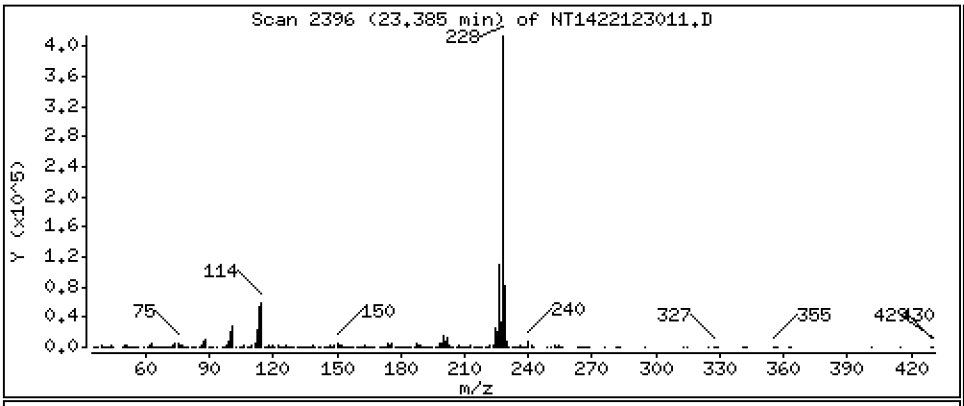
Operator: VTS

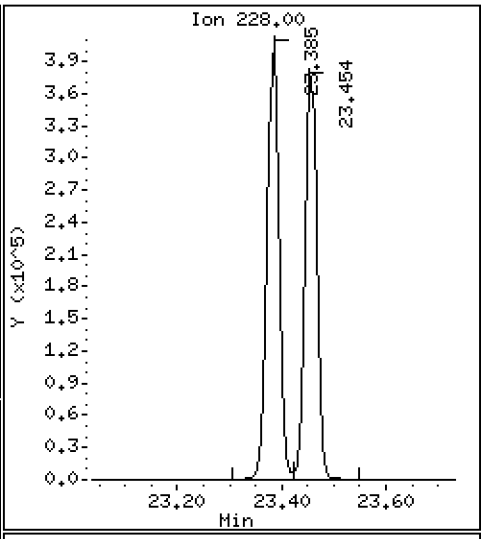
Column phase: ZB-5msi

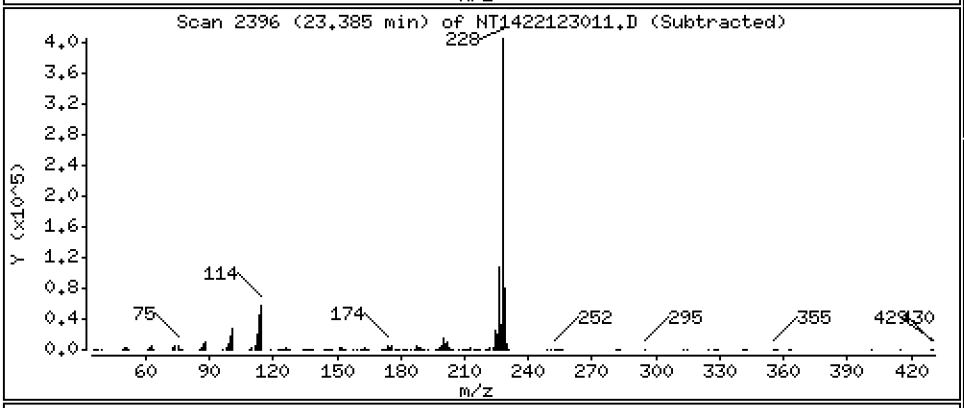
Column diameter: 0.25

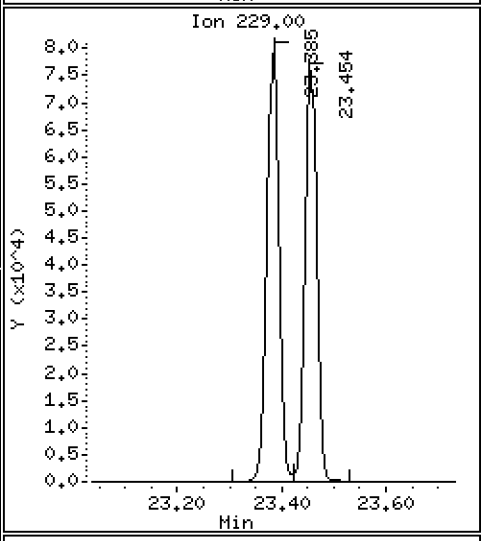
68 Benzo(a)anthracene

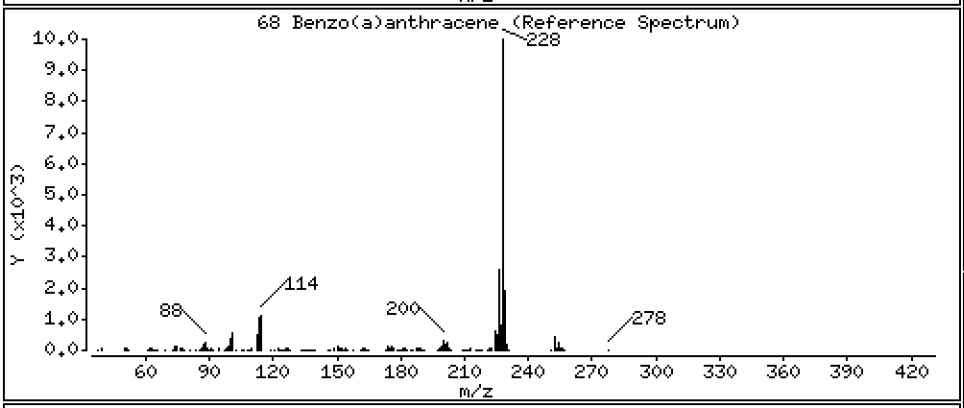
Concentration: 4.890 ug/mL

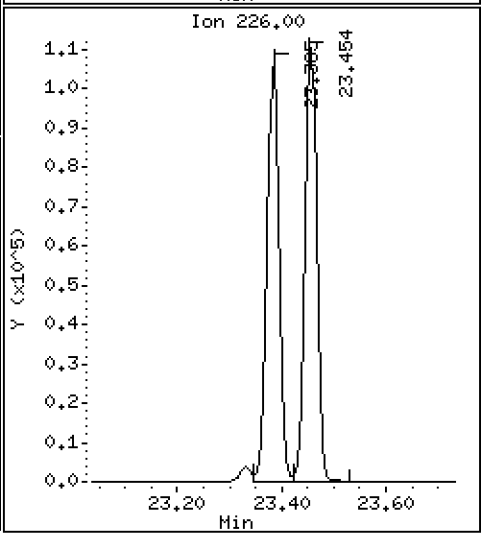


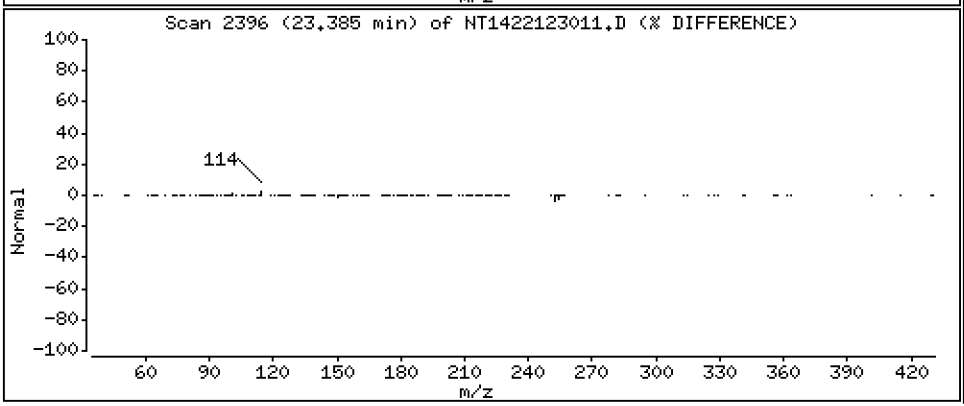












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

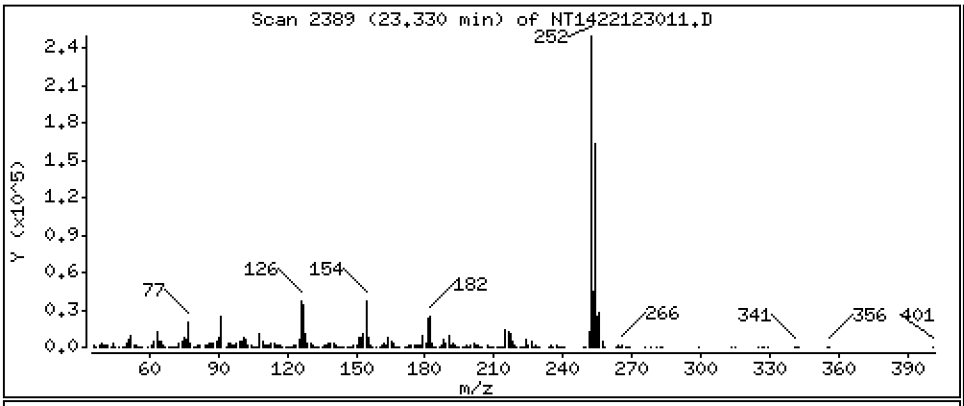
Operator: VTS

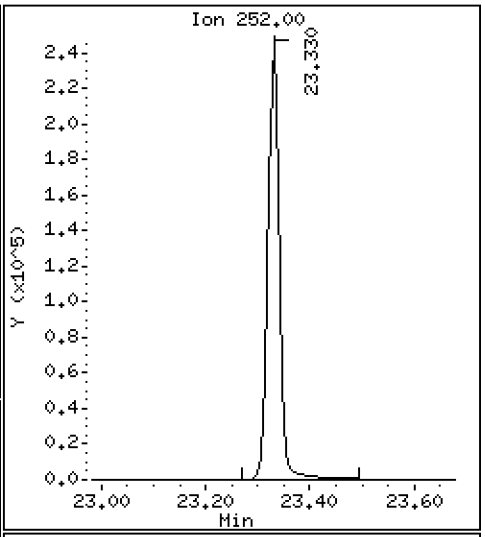
Column phase: ZB-5msi

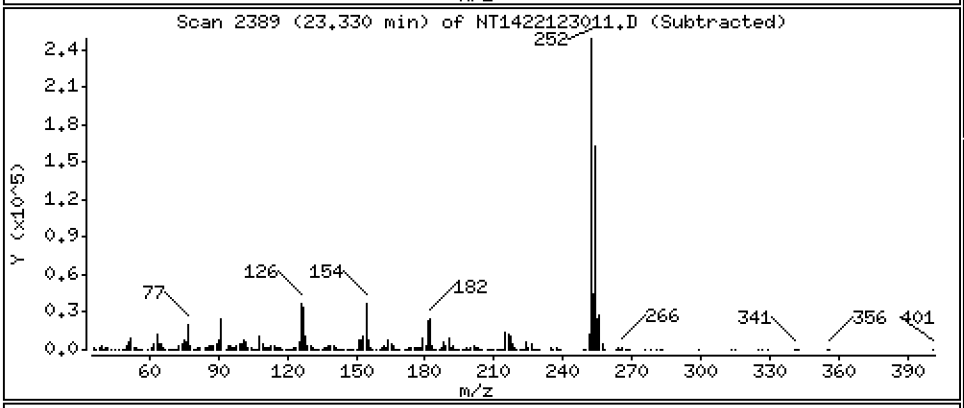
Column diameter: 0.25

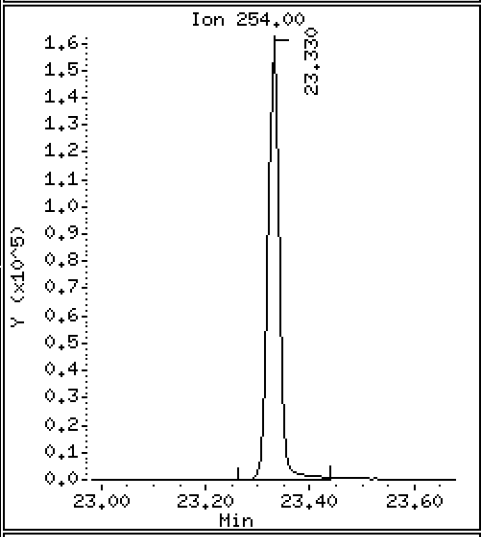
70 3,3'-Dichlorobenzidine

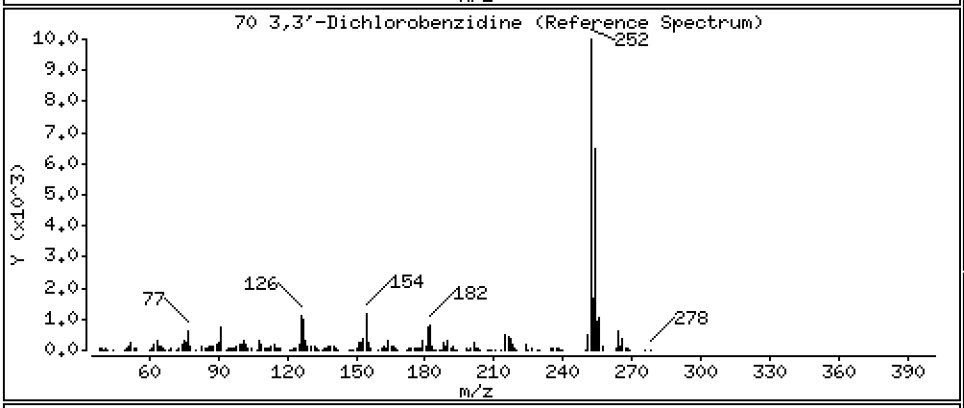
Concentration: 9.207 ug/mL

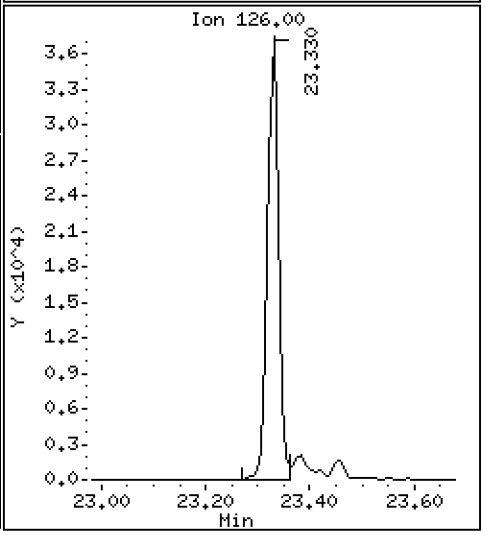


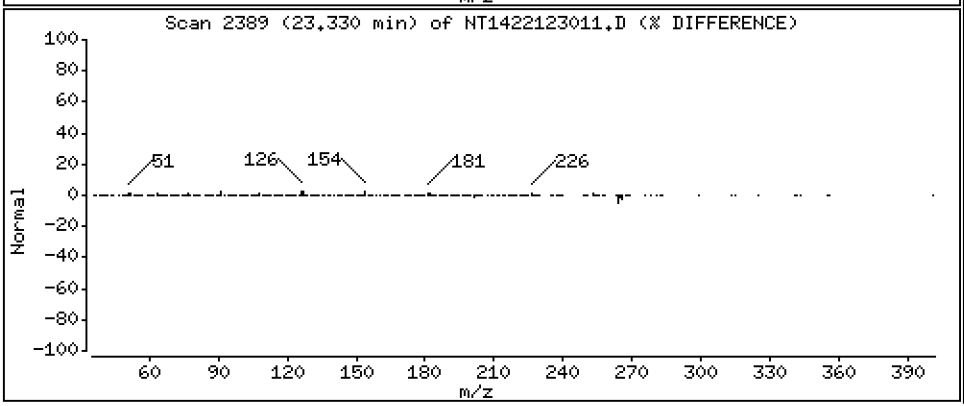












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

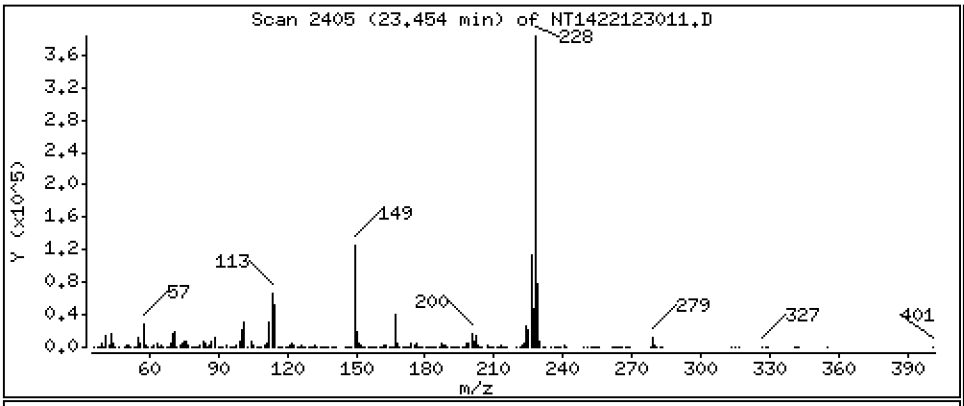
Operator: VTS

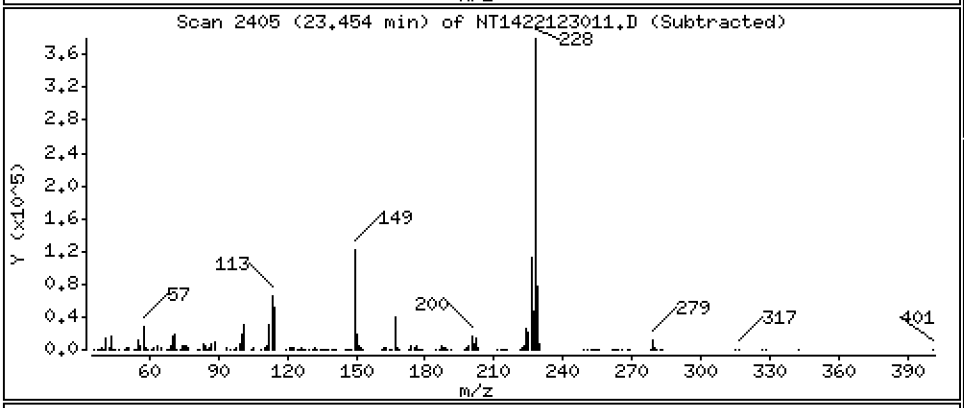
Column phase: ZB-5msi

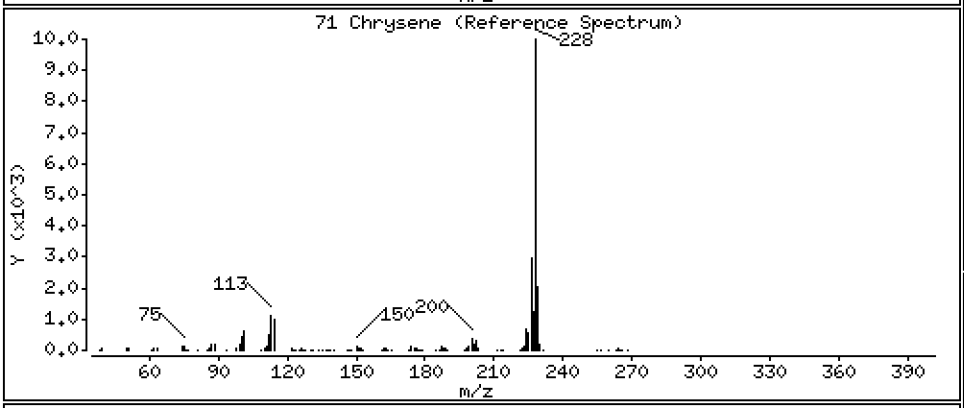
Column diameter: 0.25

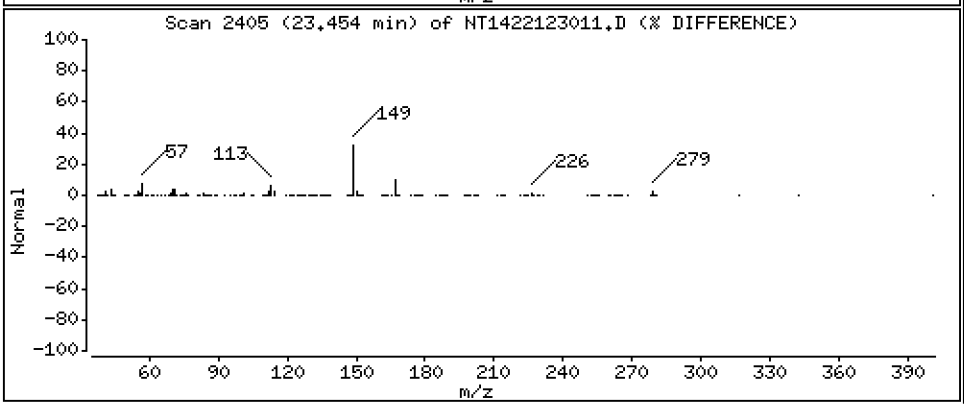
71 Chrysene

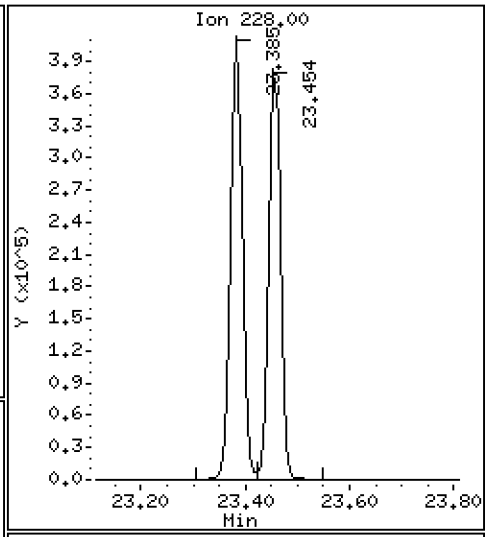
Concentration: 4.763 ug/mL

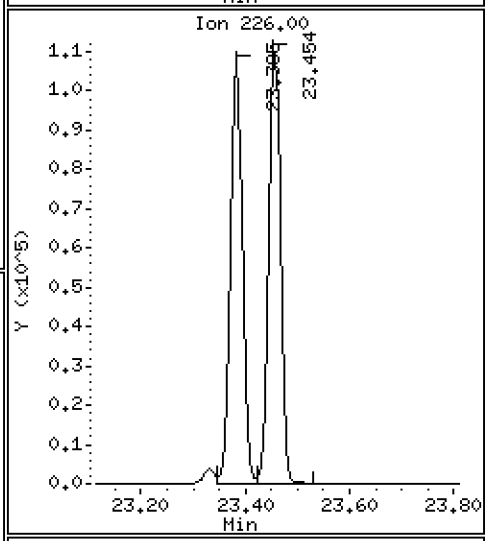


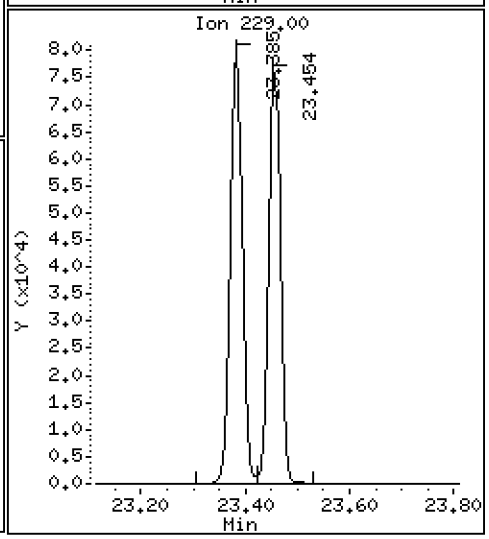












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

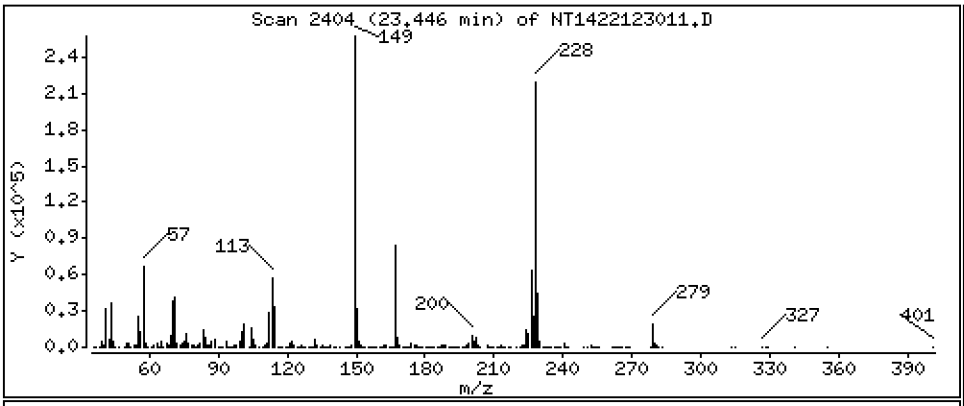
Operator: VTS

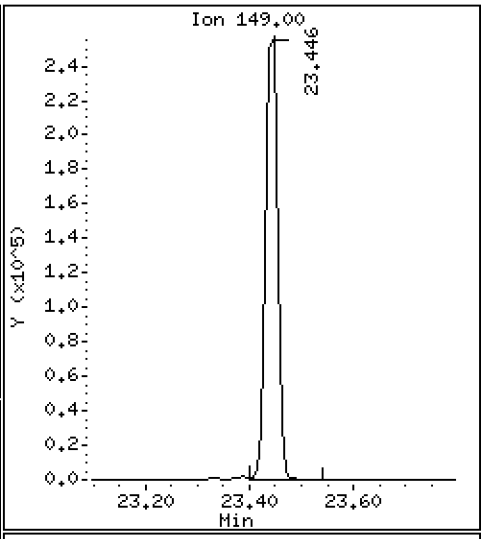
Column phase: ZB-5msi

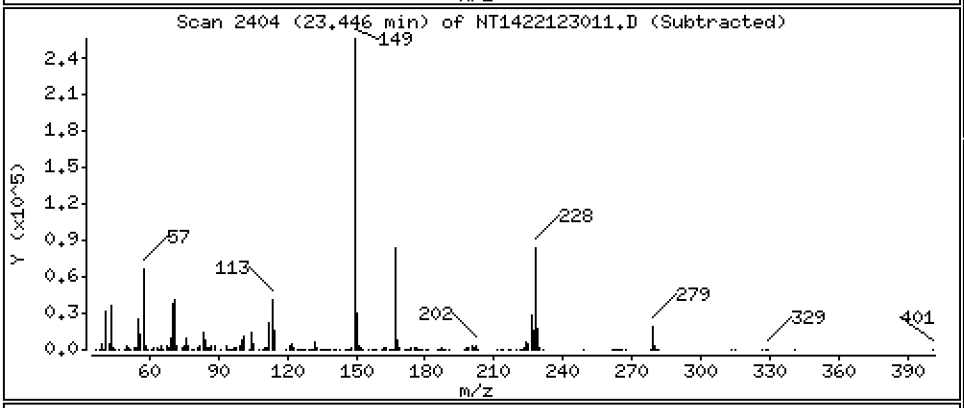
Column diameter: 0.25

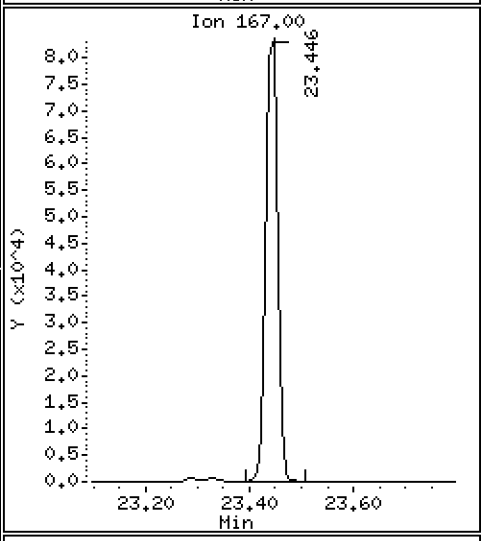
72 bis(2-Ethylhexyl)phthalate

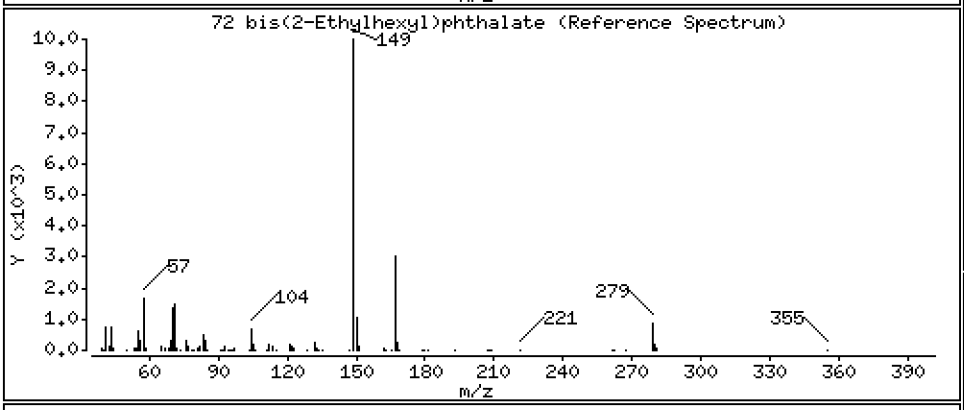
Concentration: 5.899 ug/mL

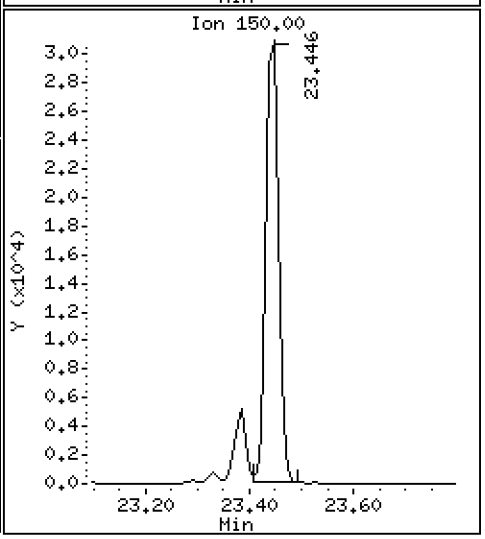


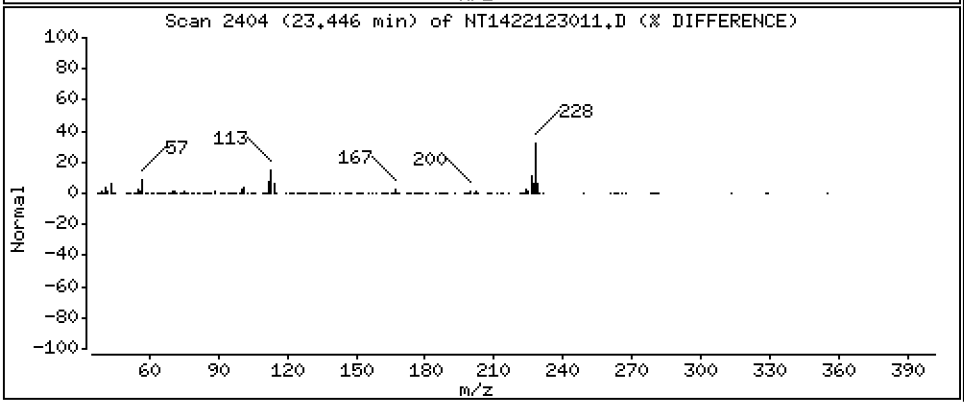












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

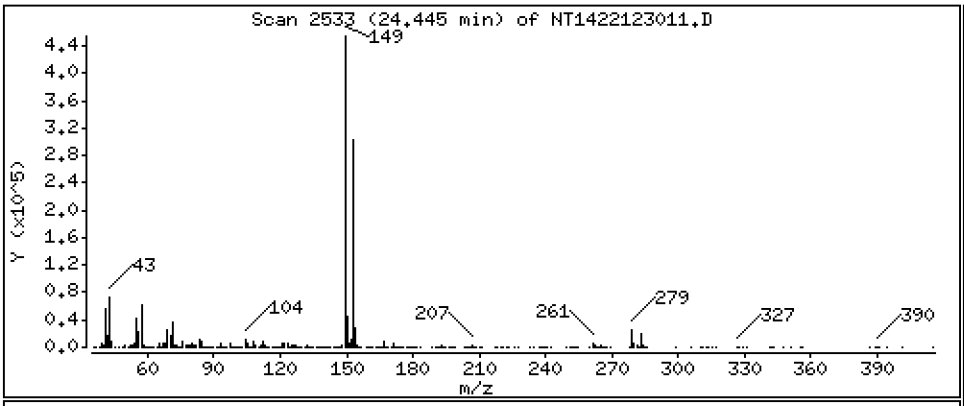
Operator: VTS

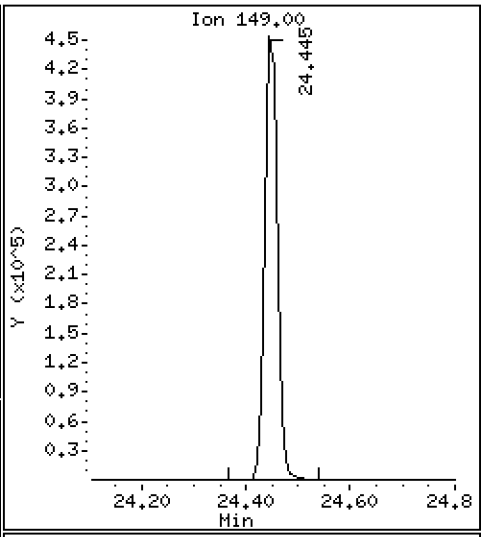
Column phase: ZB-5msi

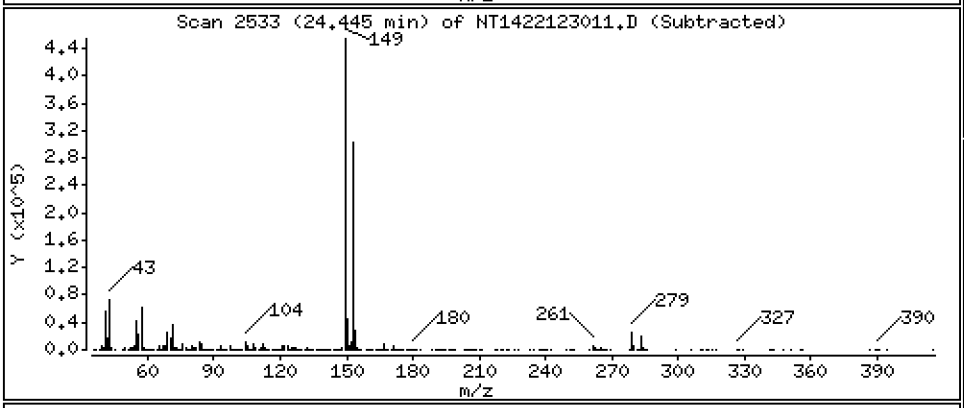
Column diameter: 0.25

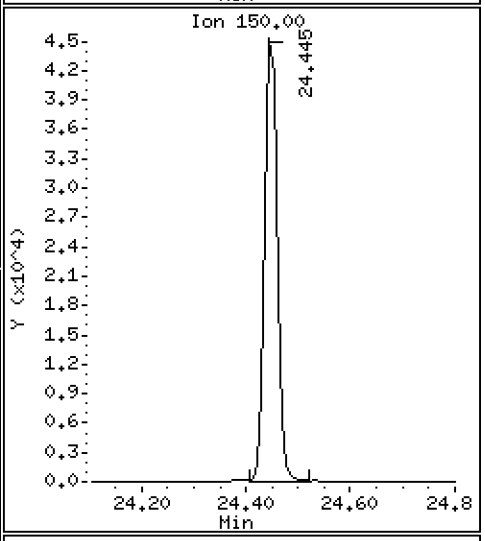
73 Di-n-octylphthalate

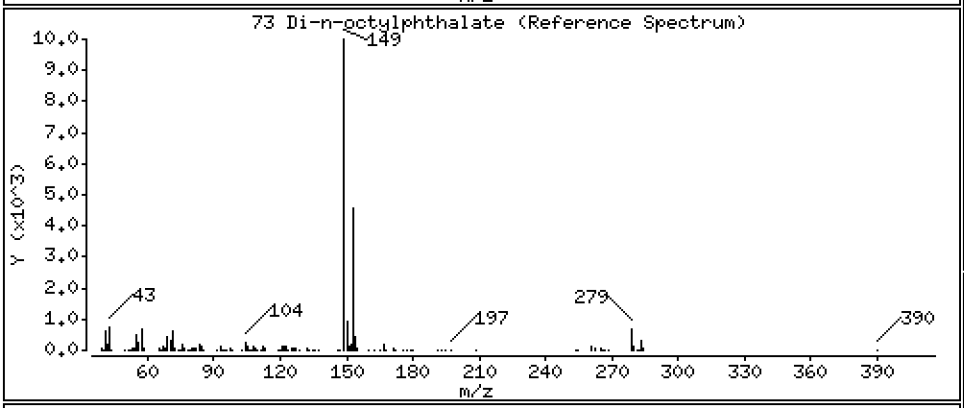
Concentration: 5.083 ug/mL

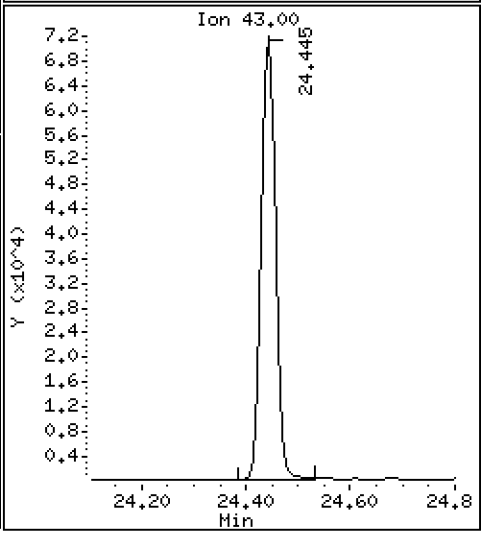


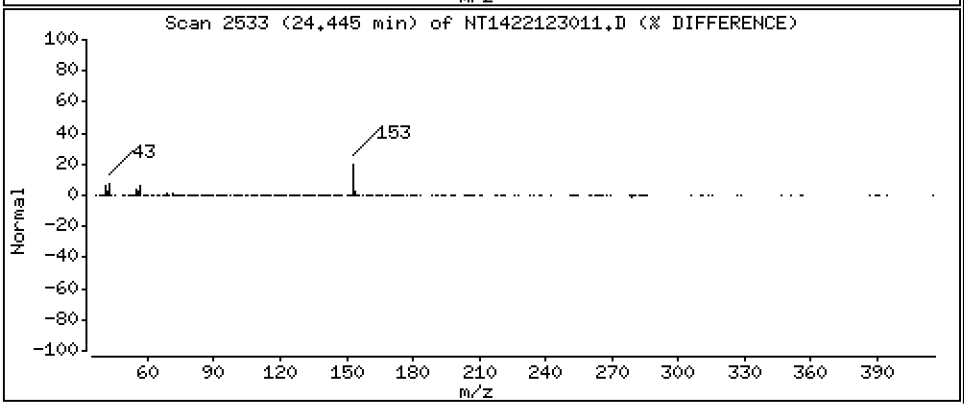












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

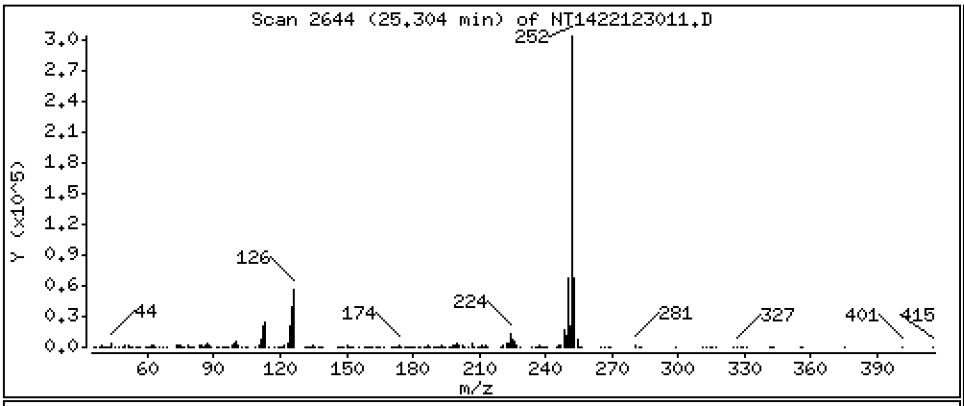
Operator: VTS

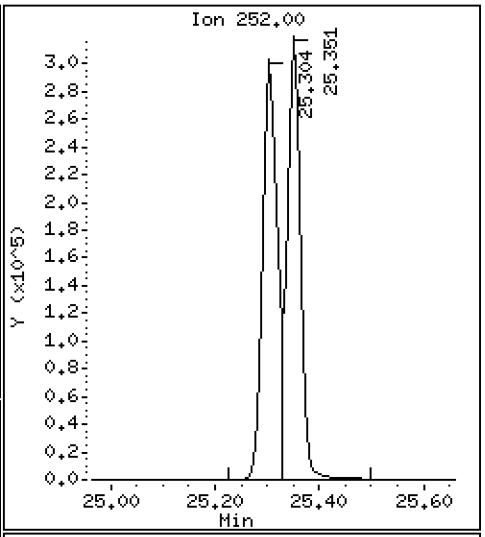
Column phase: ZB-5msi

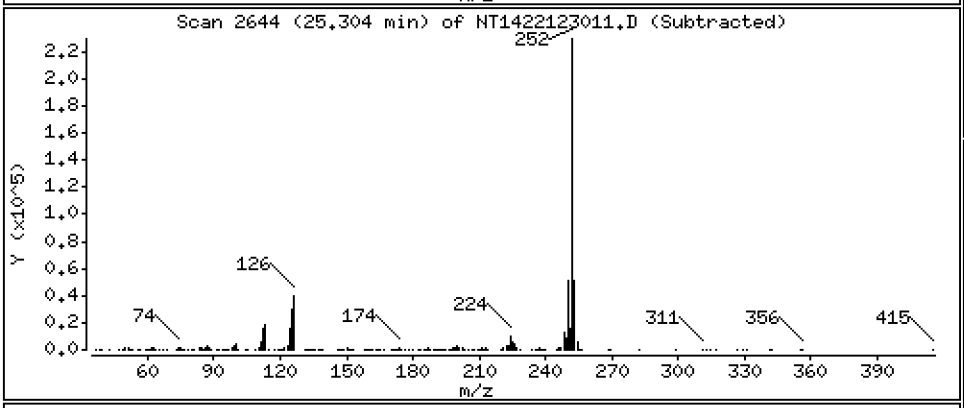
Column diameter: 0.25

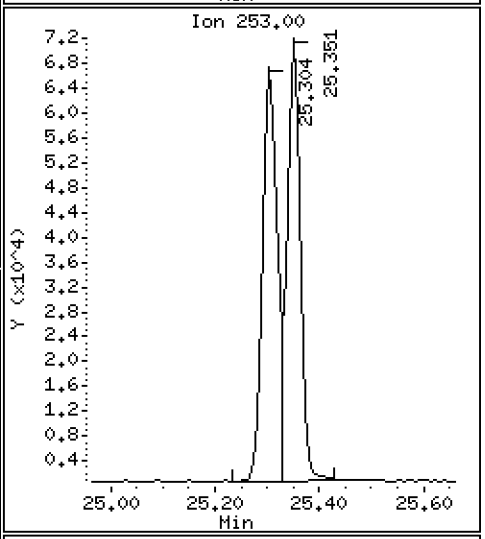
74 Benzo(b)fluoranthene

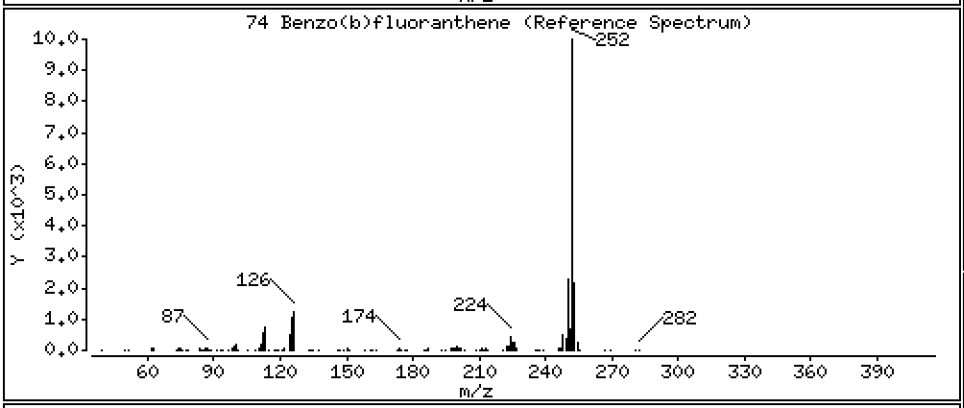
Concentration: 4.893 ug/mL

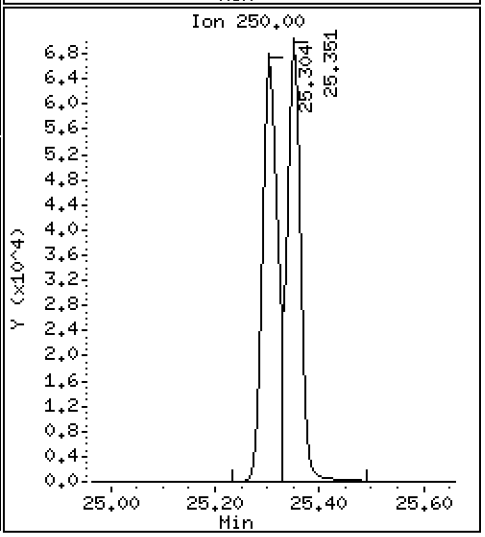


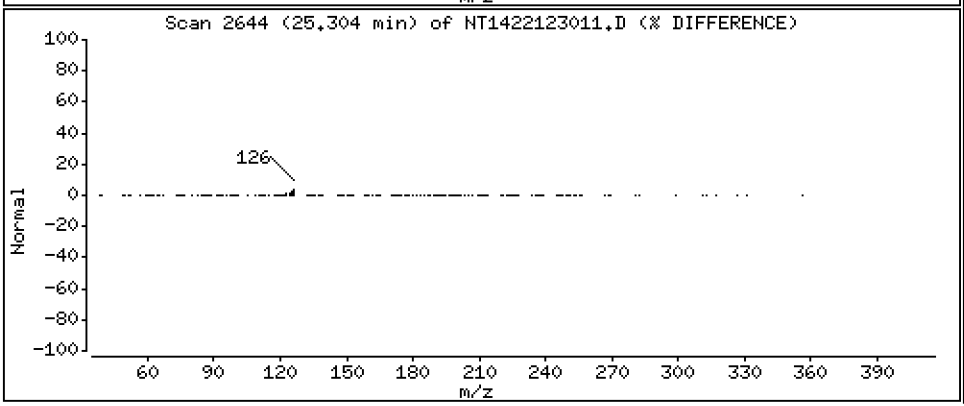












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

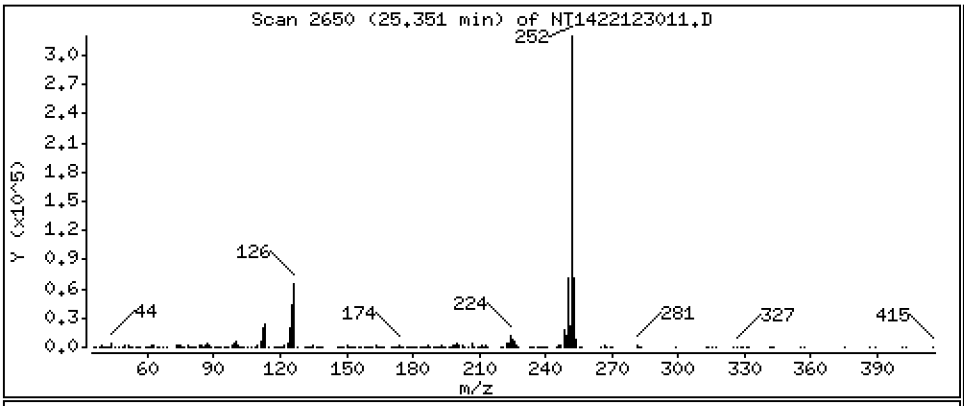
Operator: VTS

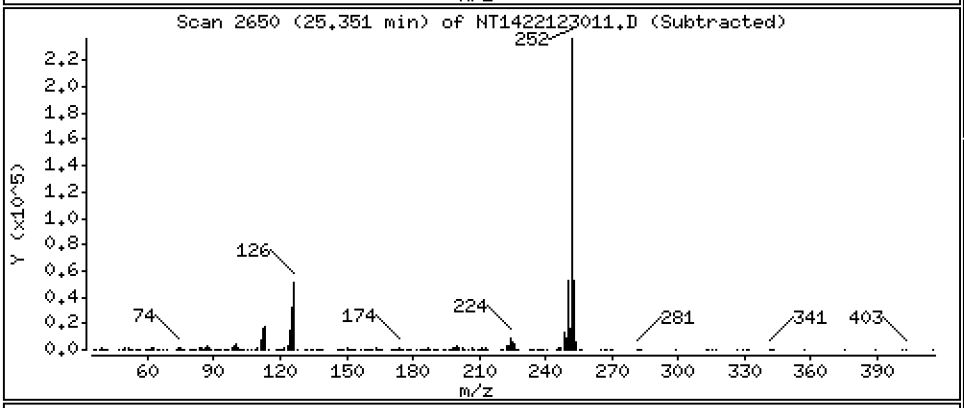
Column phase: ZB-5msi

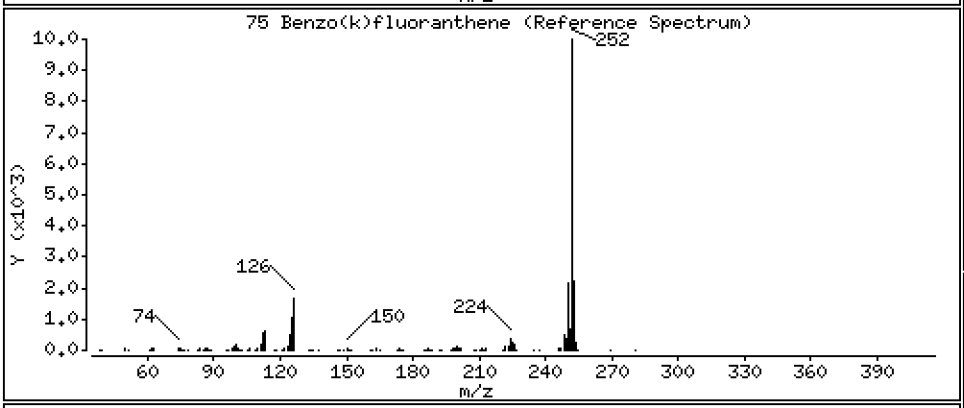
Column diameter: 0.25

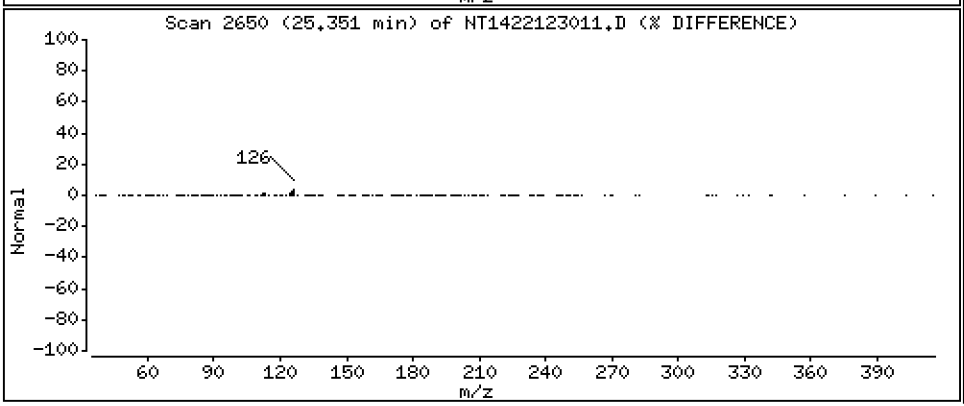
75 Benzo(k)fluoranthene

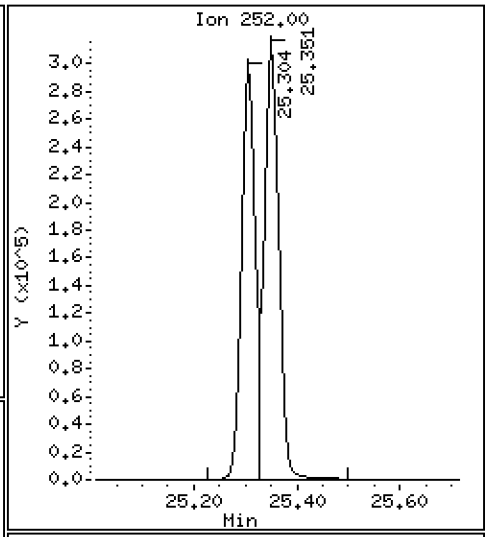
Concentration: 5.093 ug/mL

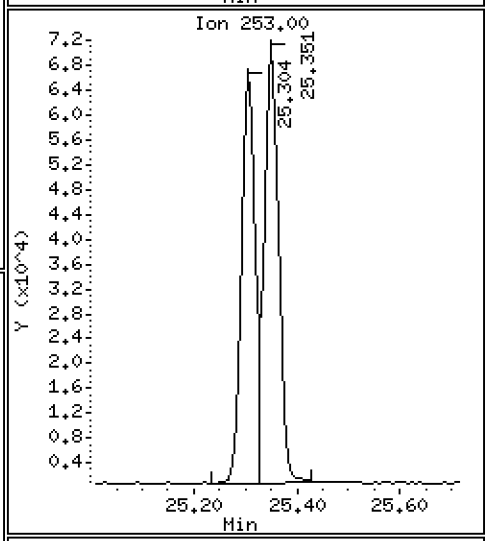


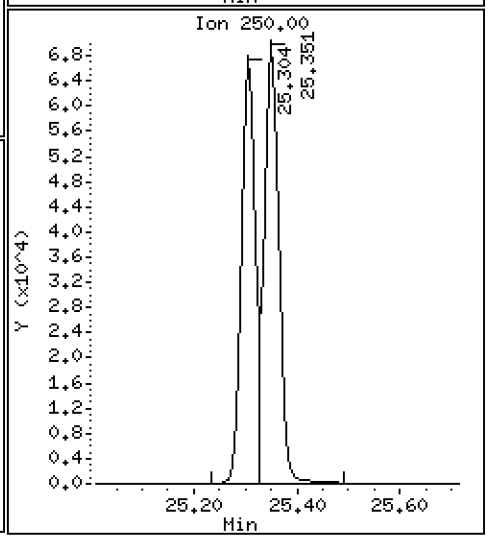












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

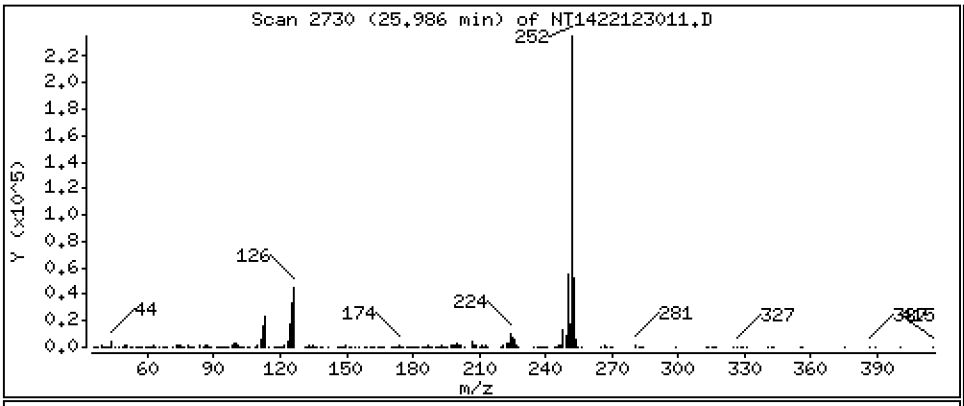
Operator: VTS

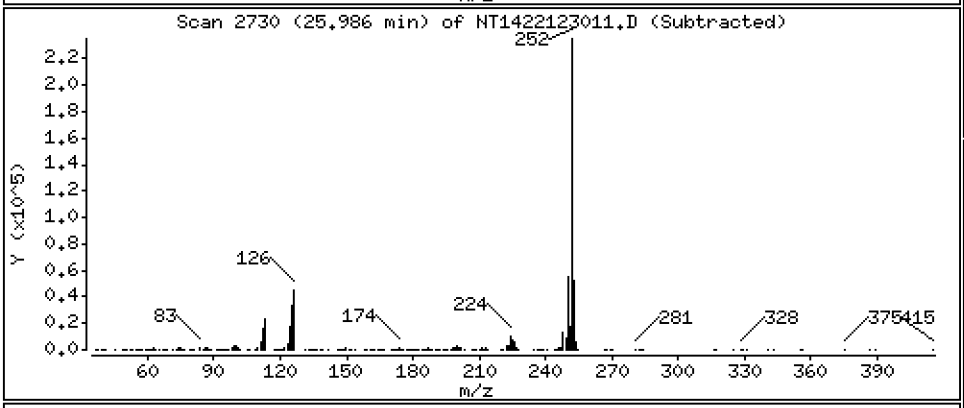
Column phase: ZB-5msi

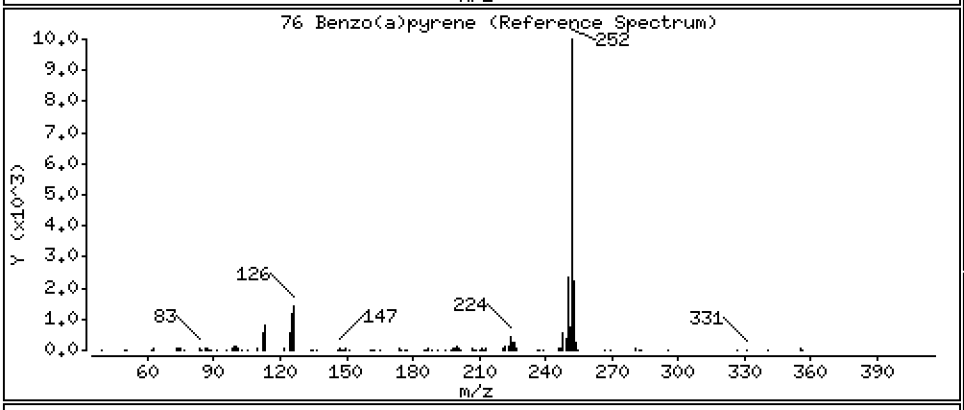
Column diameter: 0.25

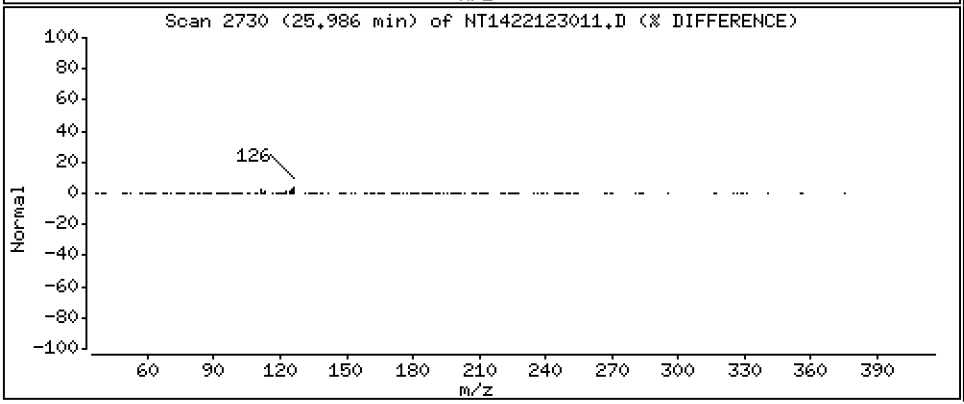
76 Benzo(a)pyrene

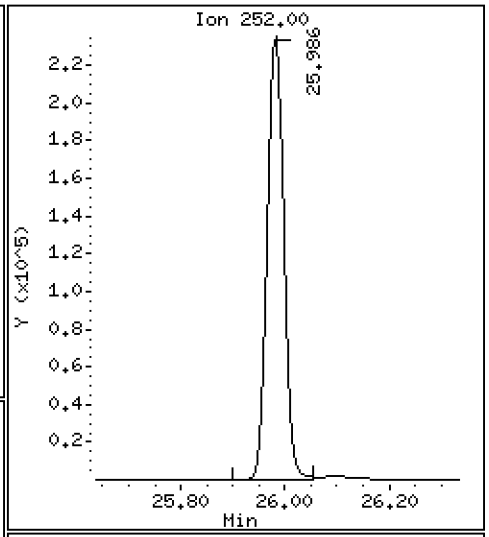
Concentration: 5.092 ug/mL

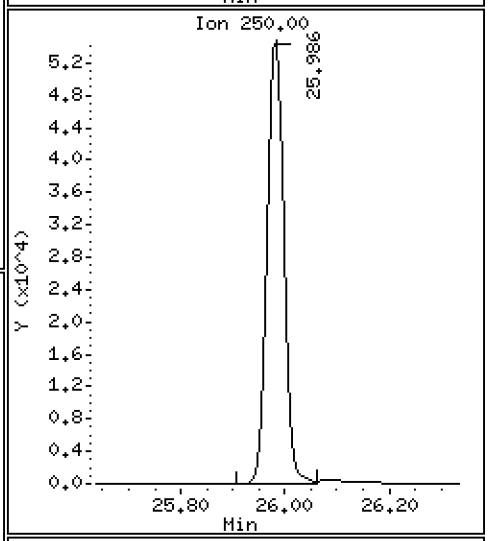


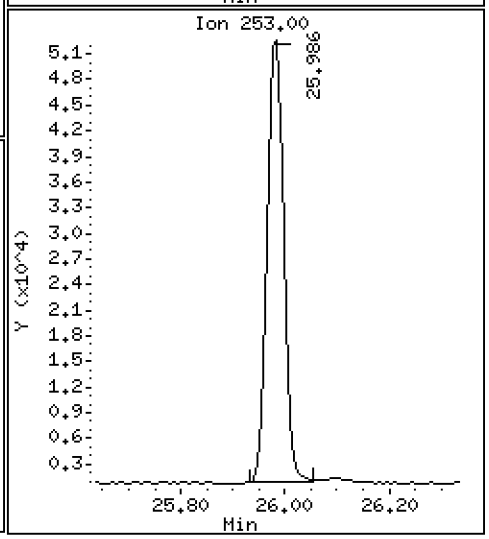












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

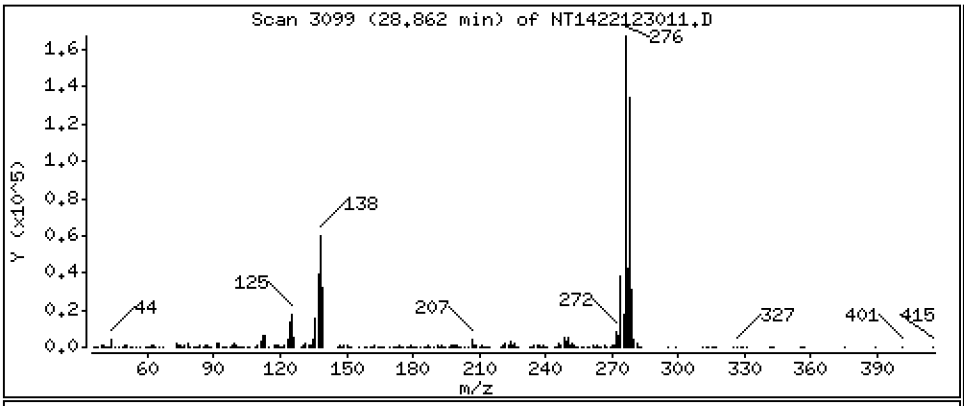
Operator: VTS

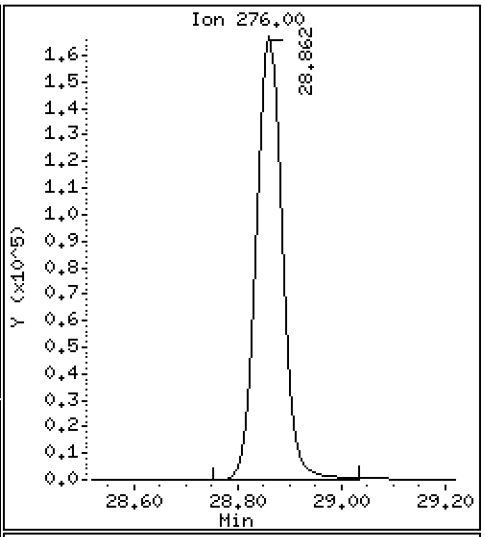
Column phase: ZB-5msi

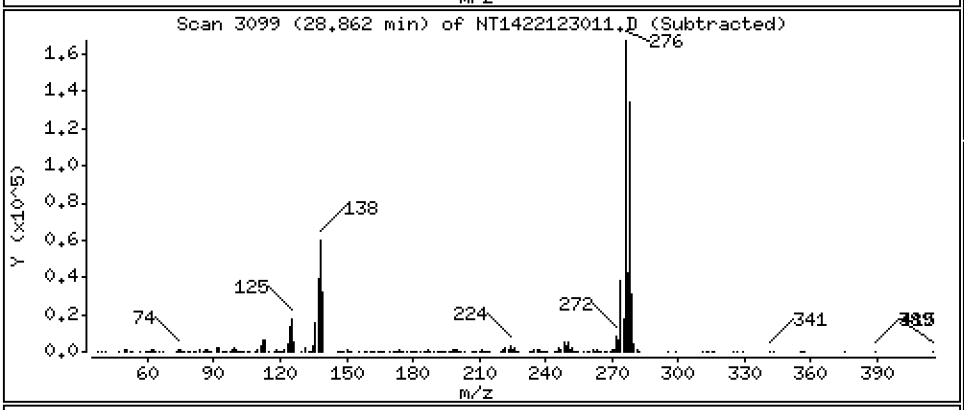
Column diameter: 0.25

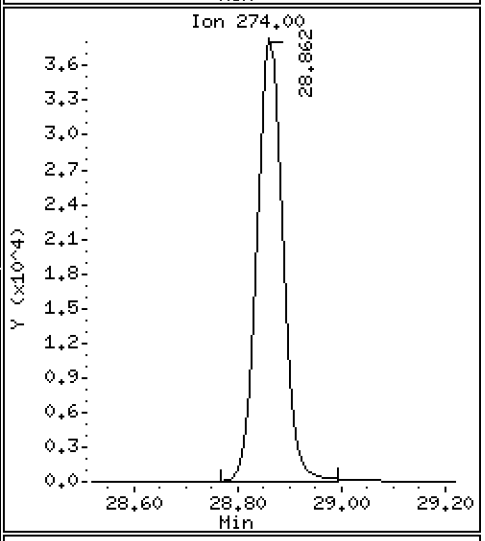
78 Indeno(1,2,3-cd)pyrene

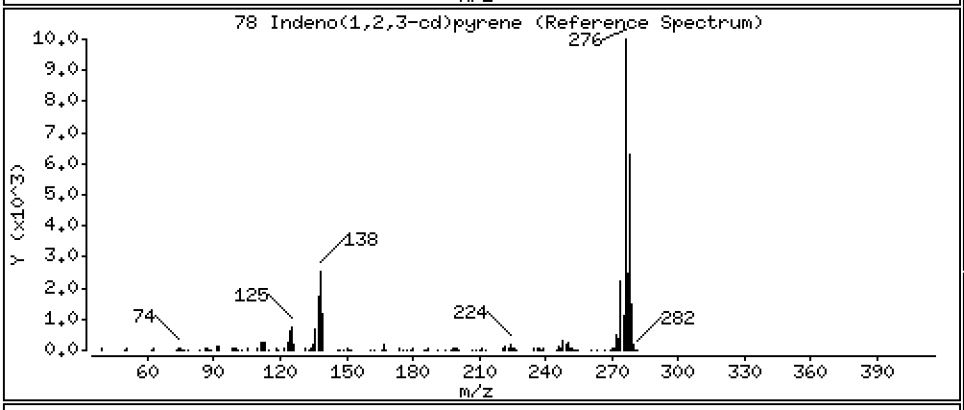
Concentration: 5.128 ug/mL

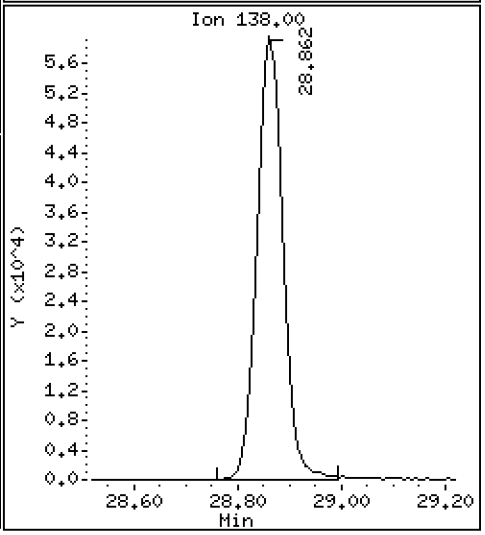


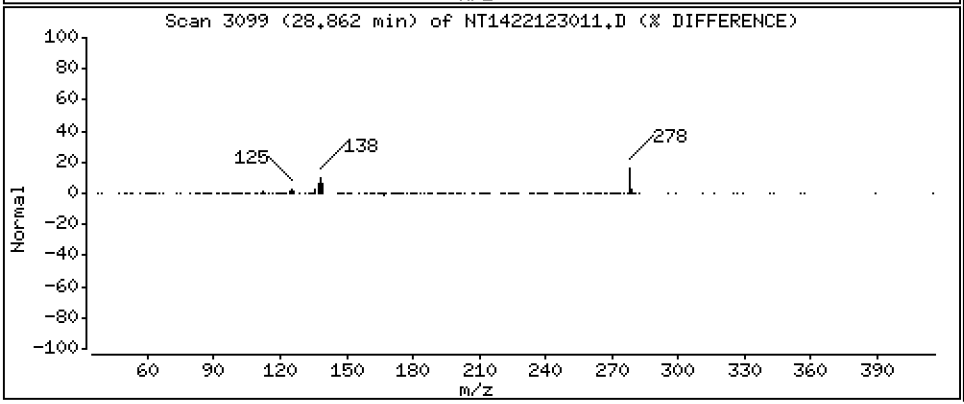












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

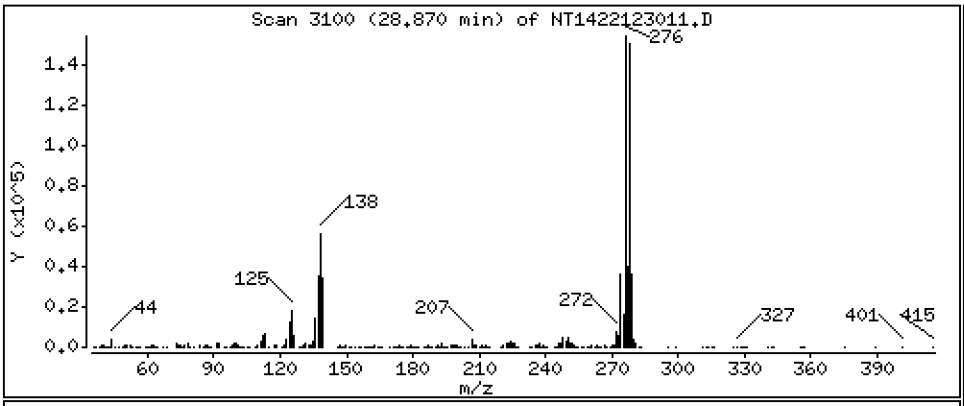
Operator: VTS

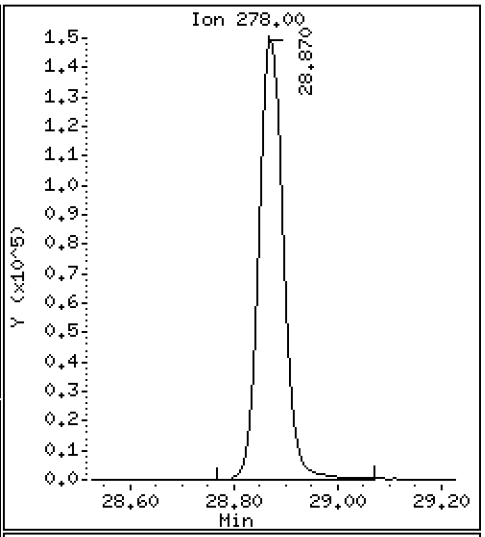
Column phase: ZB-5msi

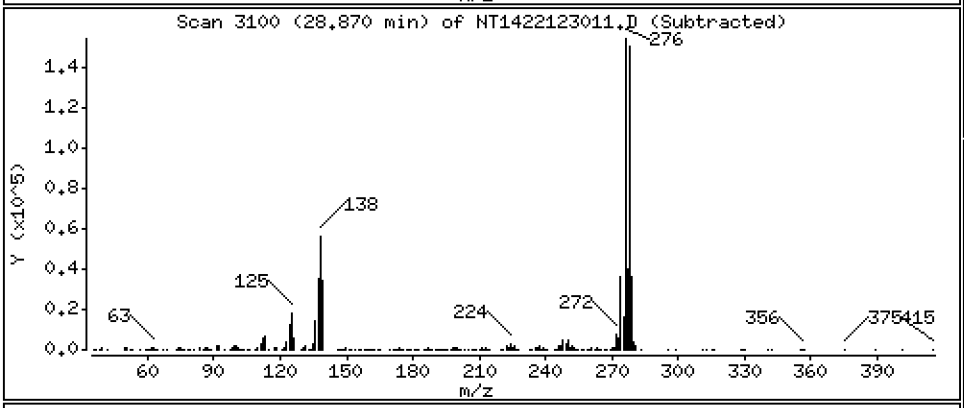
Column diameter: 0.25

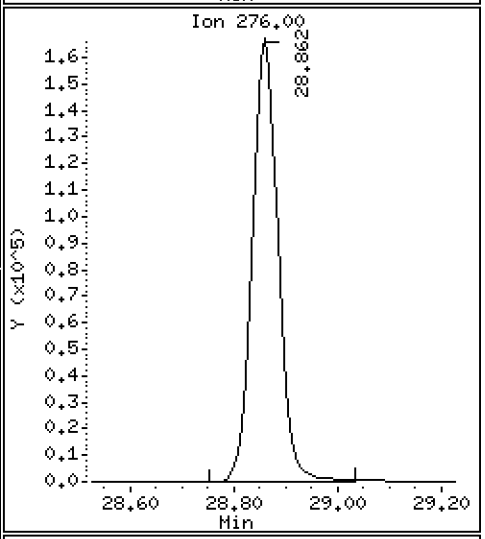
79 Dibenzo(a,h)anthracene

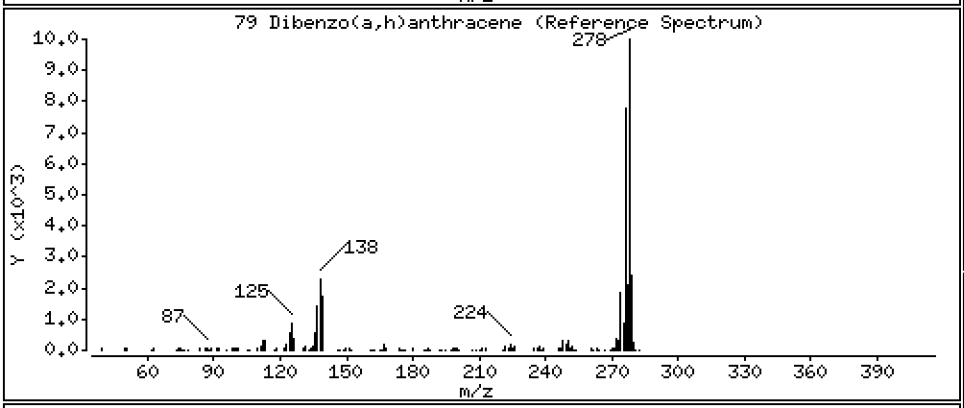
Concentration: 5.087 ug/mL

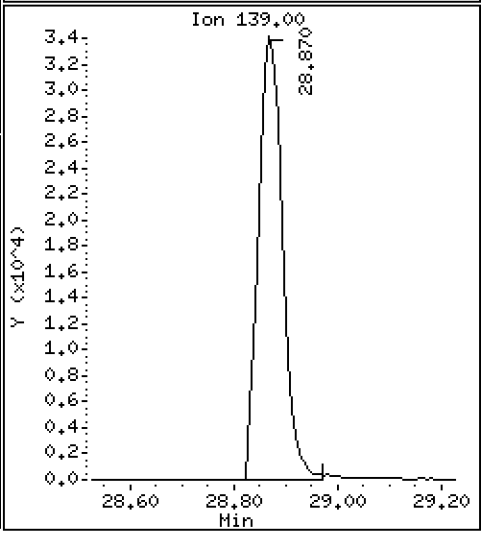


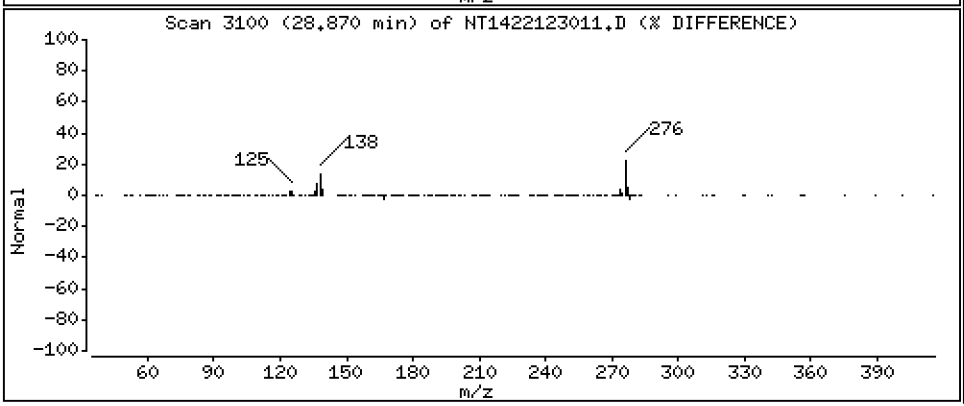












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

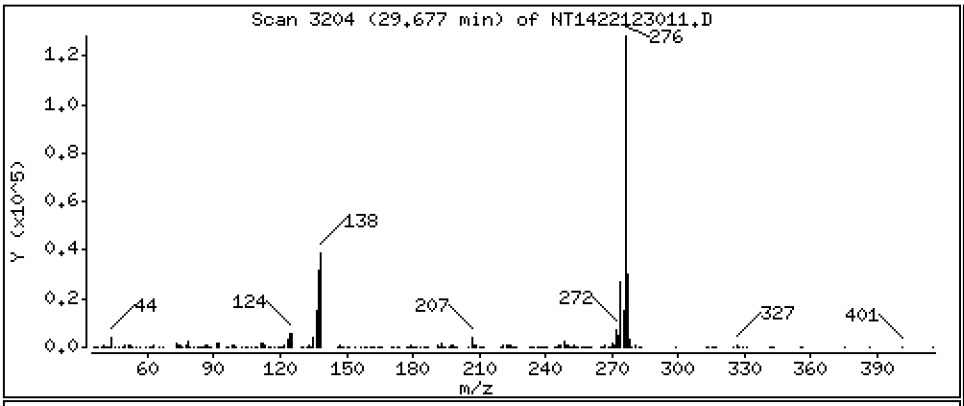
Operator: VTS

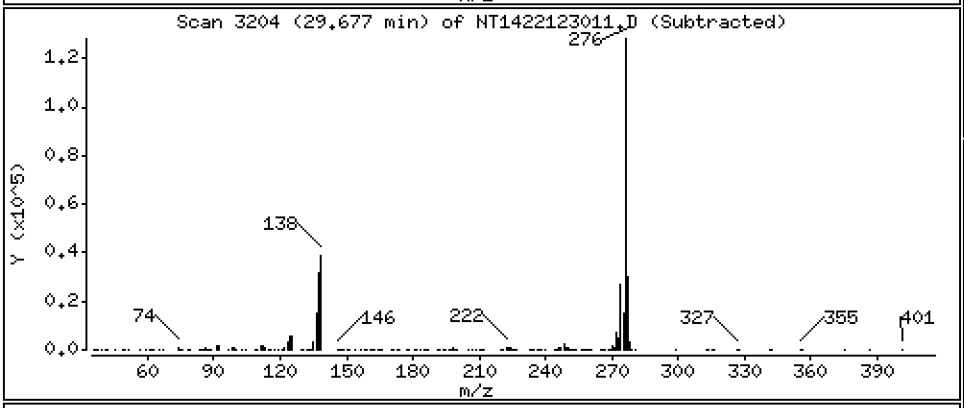
Column phase: ZB-5msi

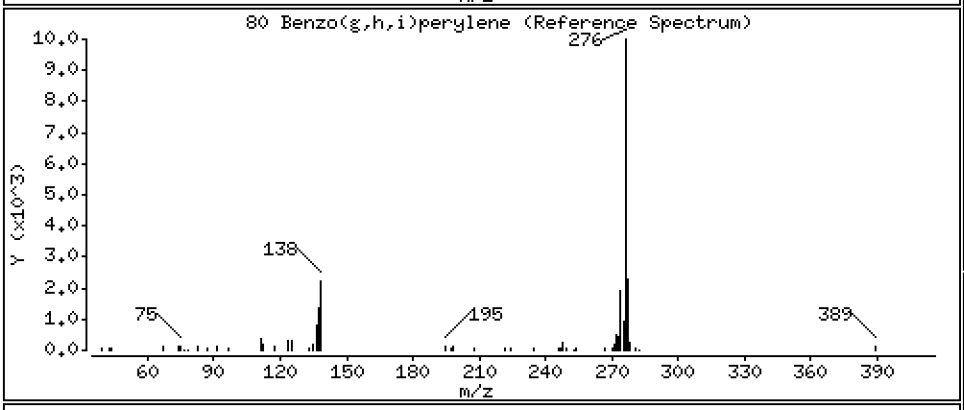
Column diameter: 0.25

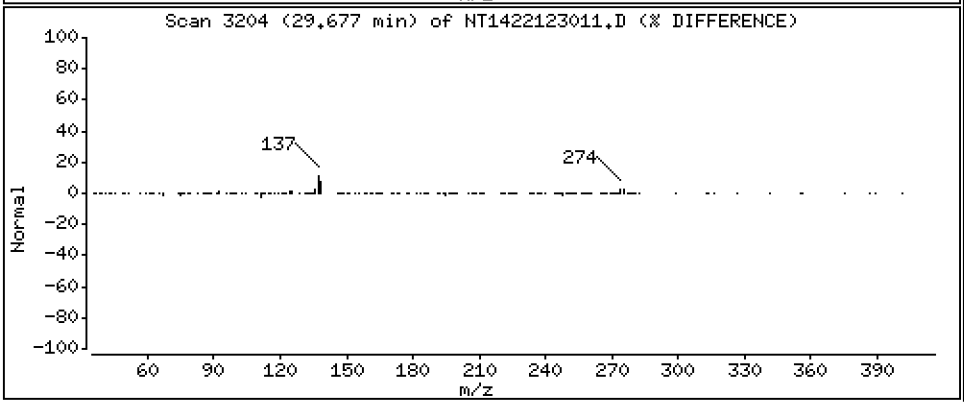
80 Benzo(g,h,i)perylene

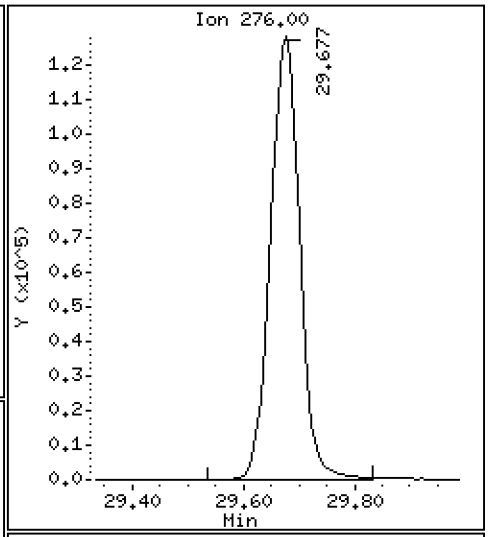
Concentration: 5.037 ug/mL

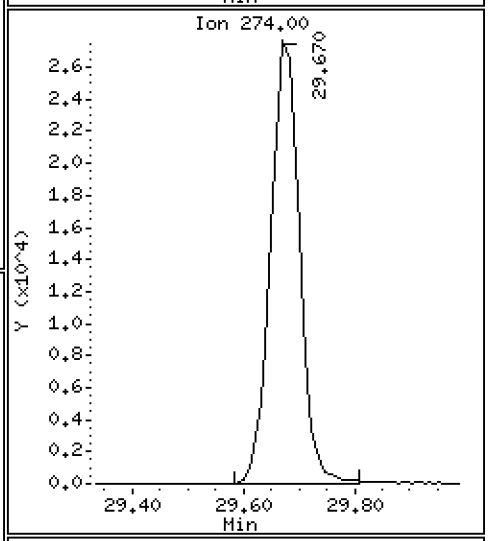


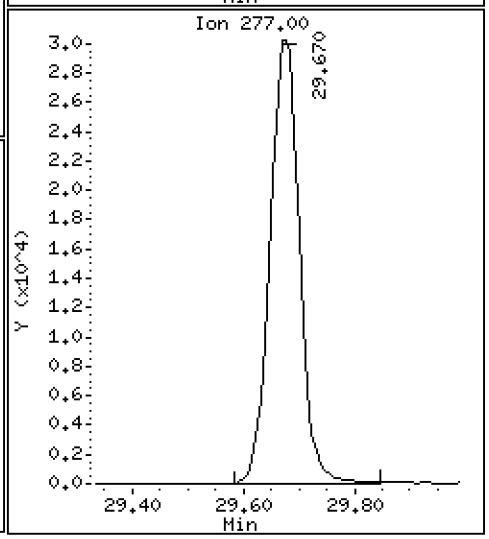












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

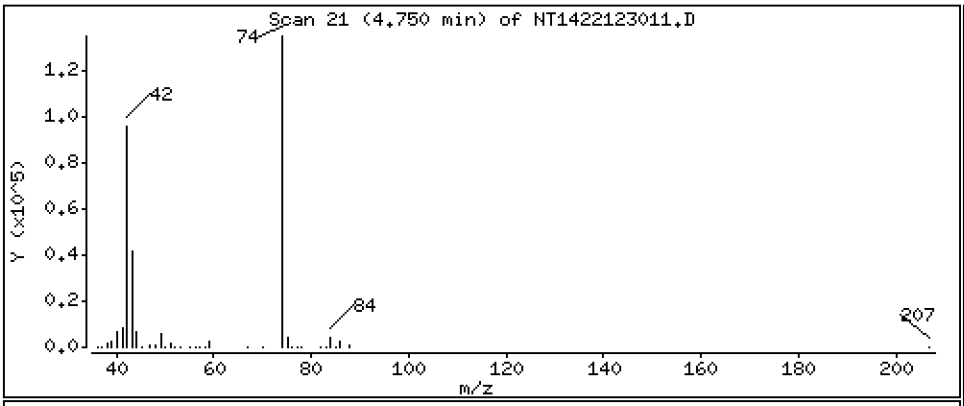
Operator: VTS

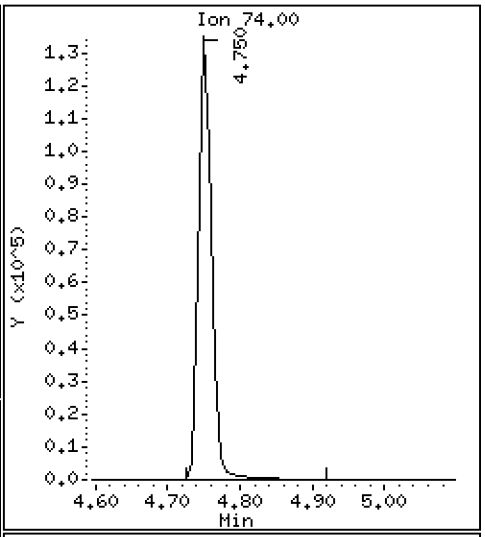
Column phase: ZB-5msi

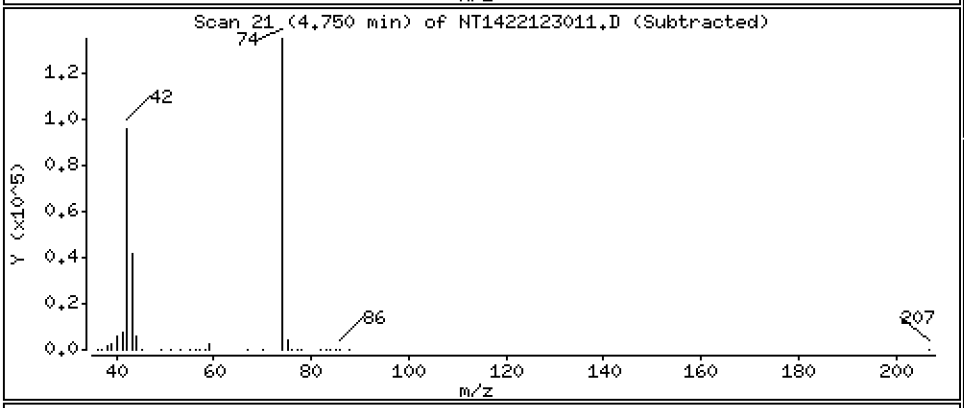
Column diameter: 0.25

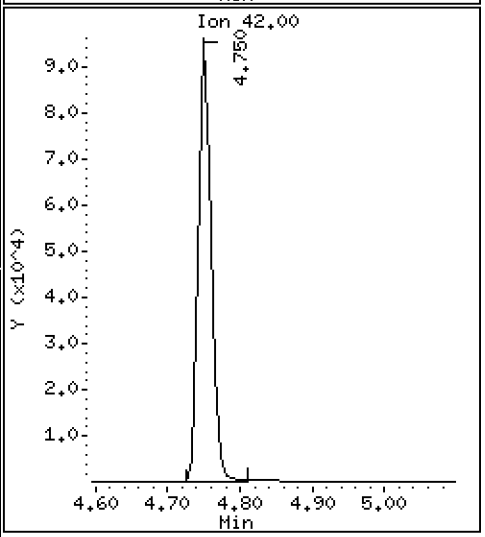
90 N-Nitrosodimethylamine

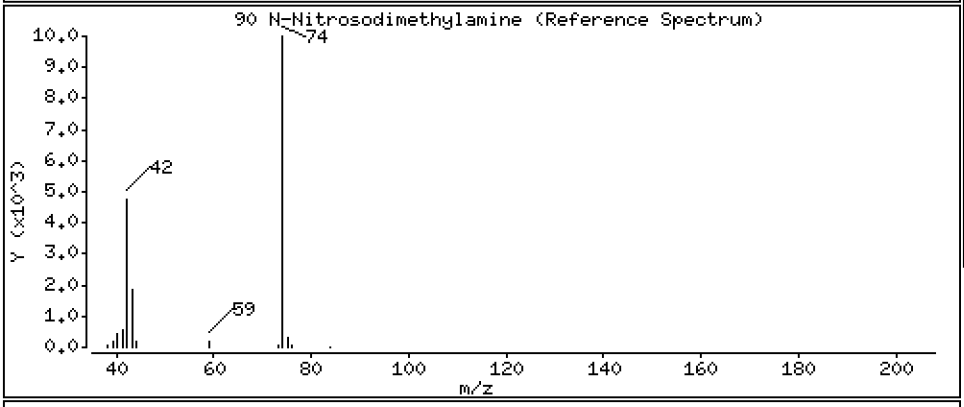
Concentration: 5.154 ug/mL

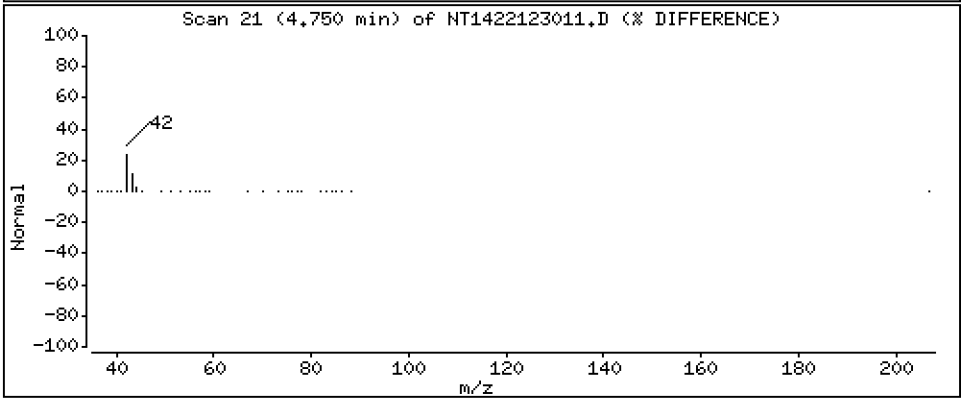












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

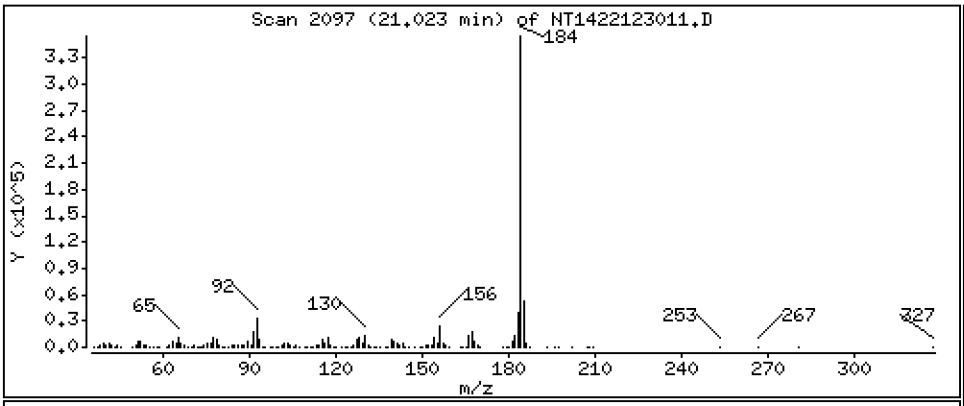
Operator: VTS

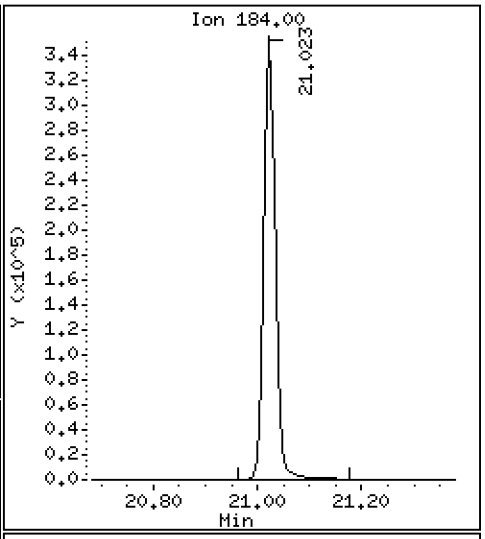
Column phase: ZB-5msi

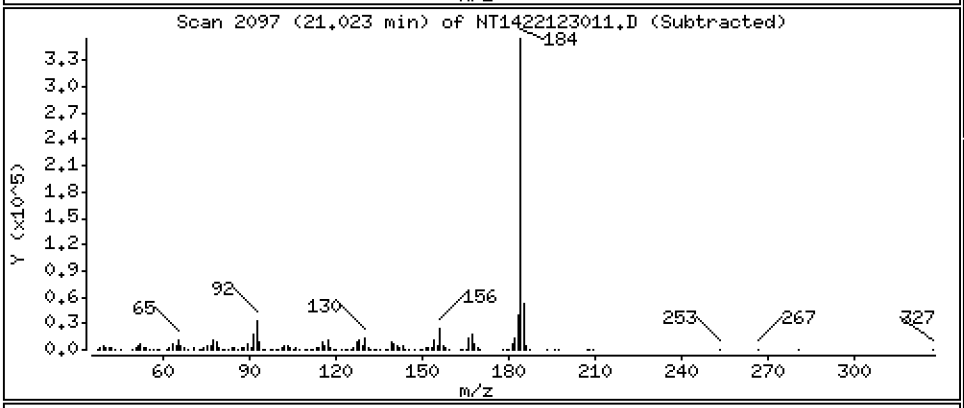
Column diameter: 0.25

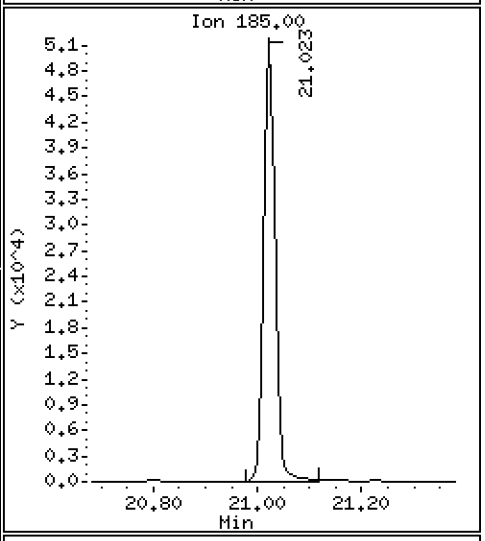
93 Benzidine

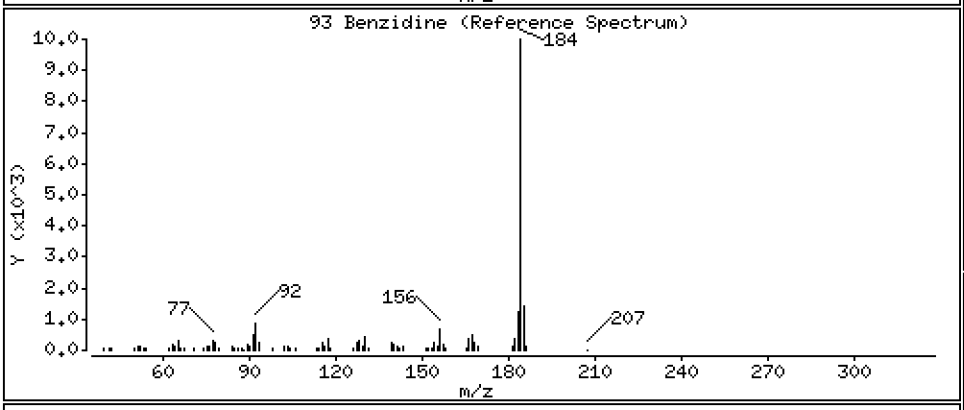
Concentration: 9.704 ug/mL

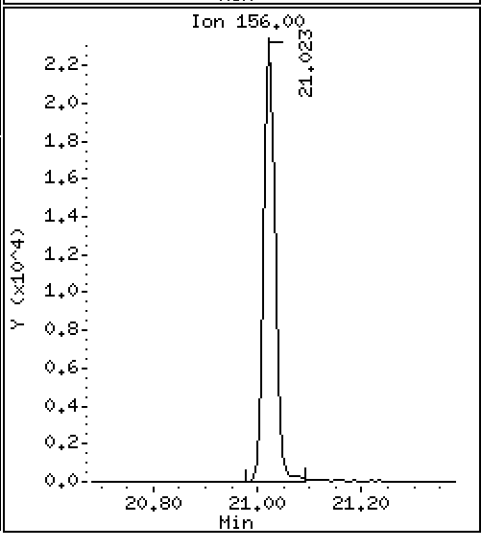


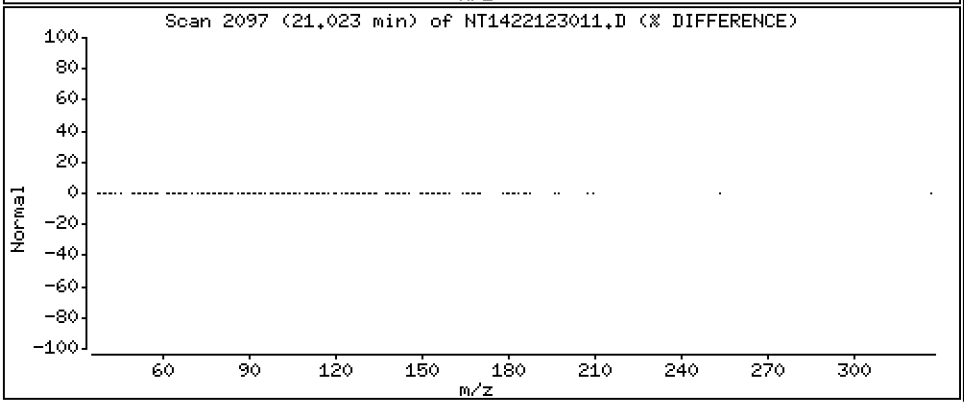












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

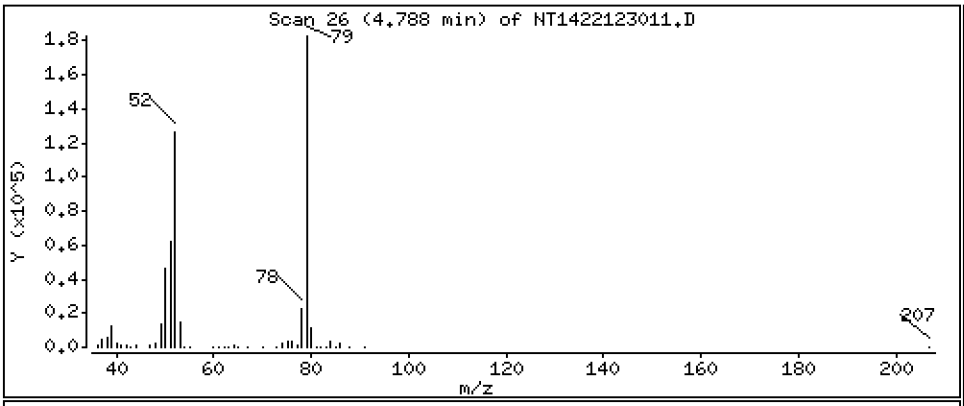
Operator: VTS

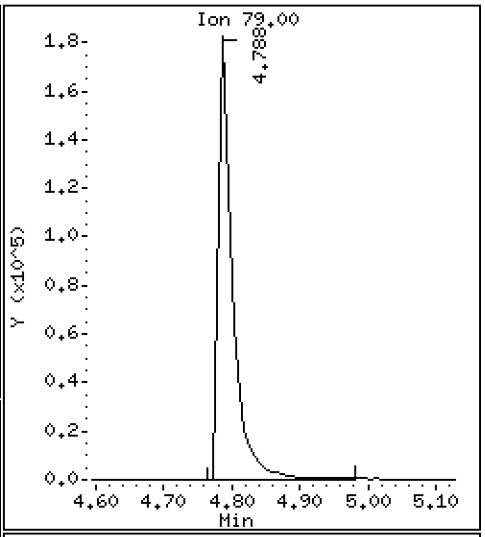
Column phase: ZB-5msi

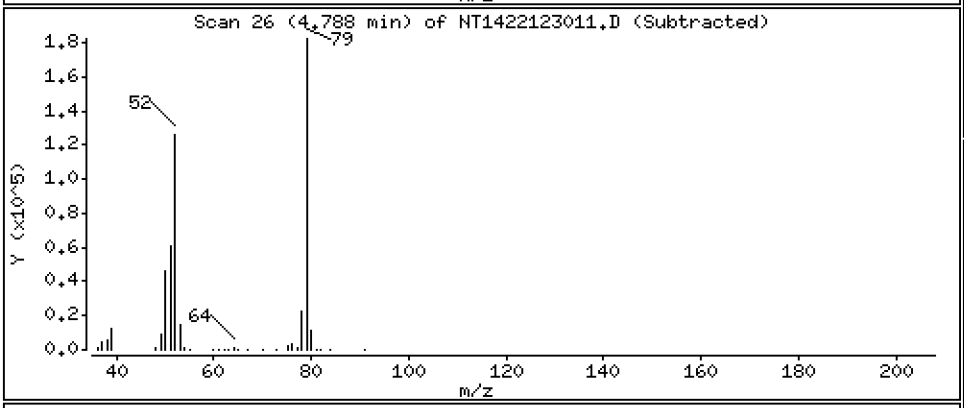
Column diameter: 0.25

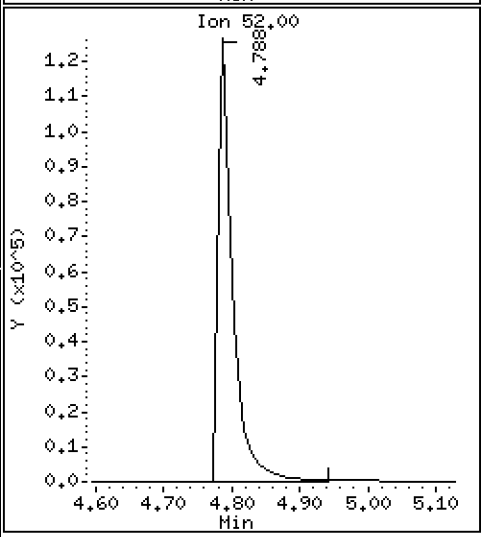
103 Pyridine

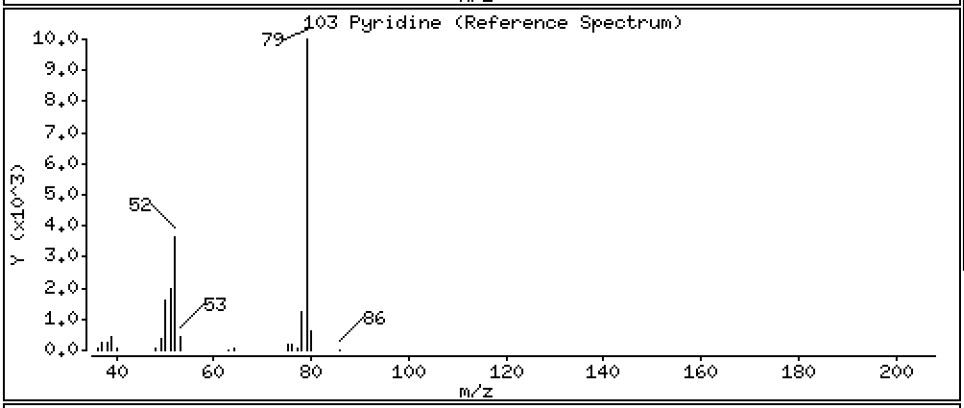
Concentration: 2.681 ug/mL

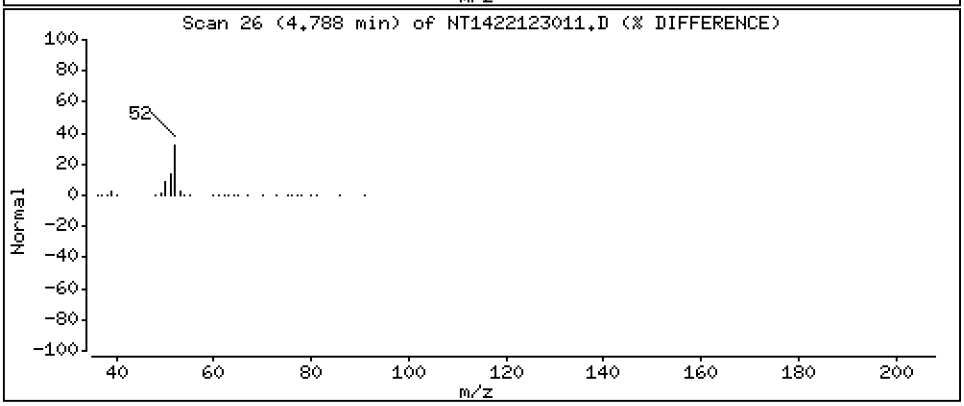












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

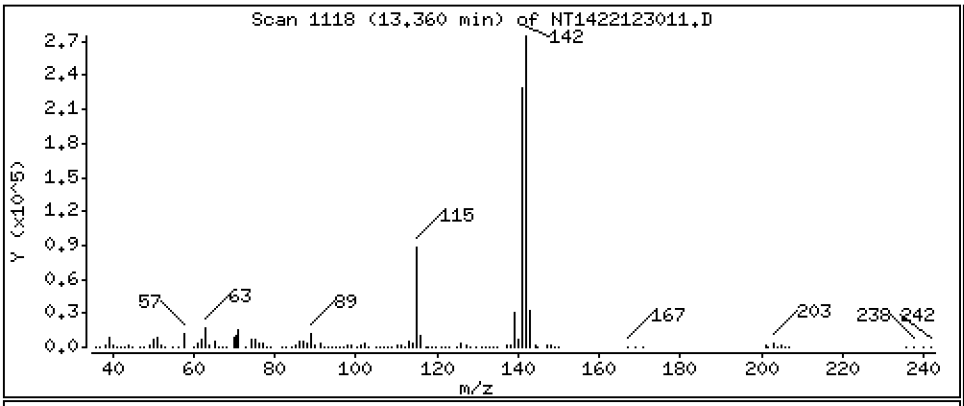
Operator: VTS

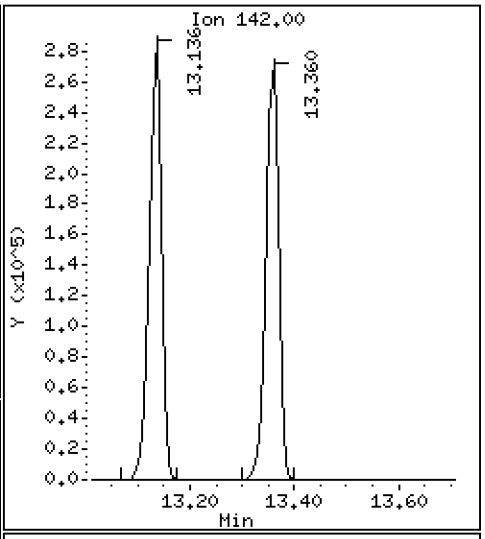
Column phase: ZB-5msi

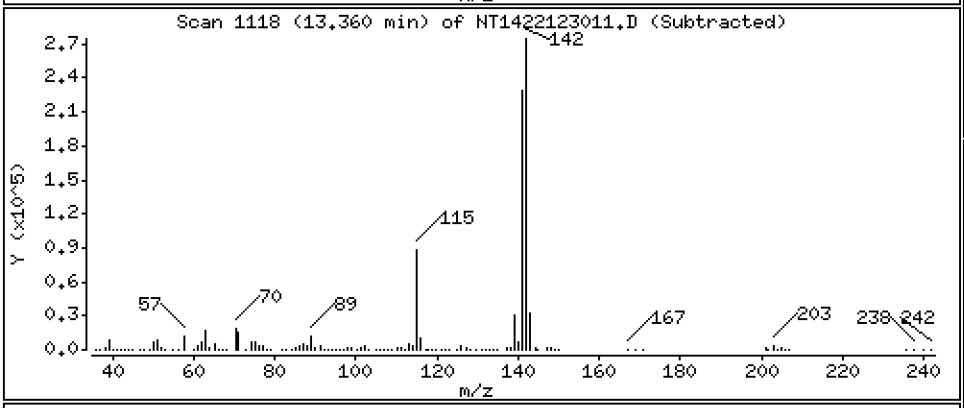
Column diameter: 0.25

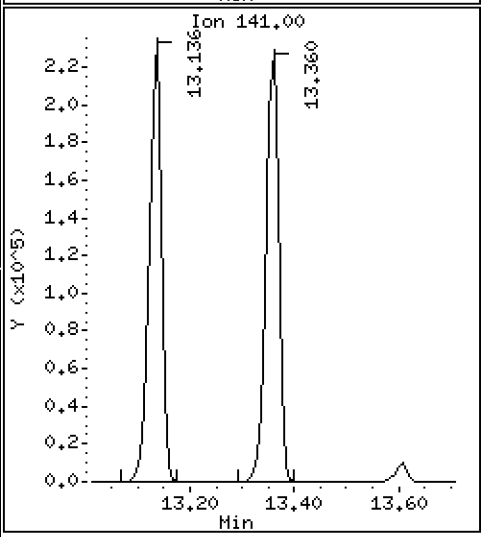
105 1-methylnaphthalene

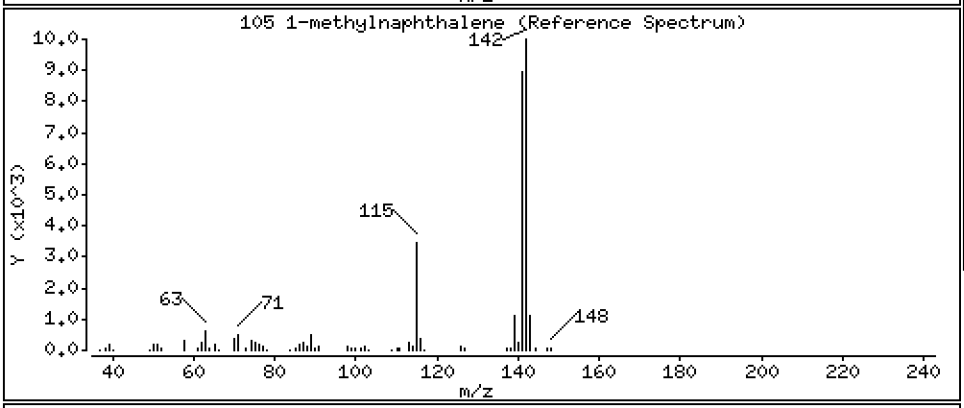
Concentration: 4.671 ug/mL

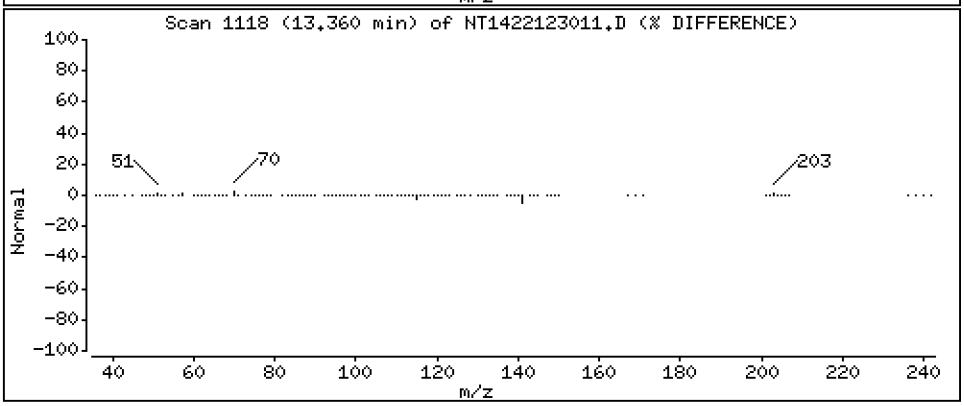












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

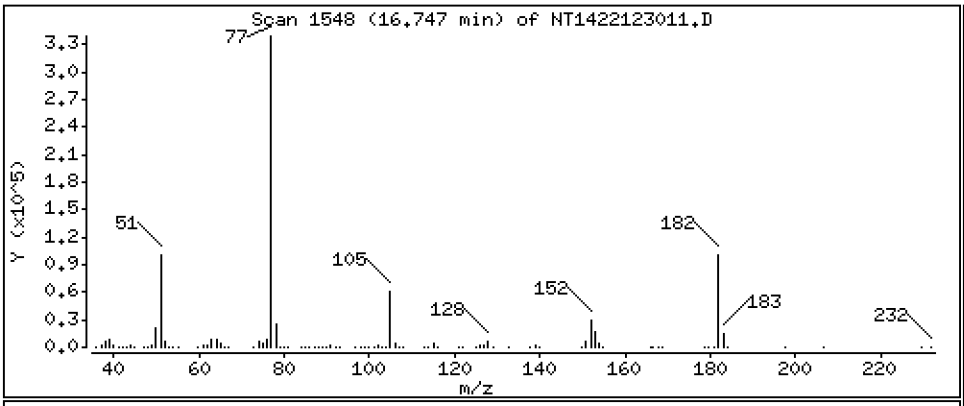
Operator: VTS

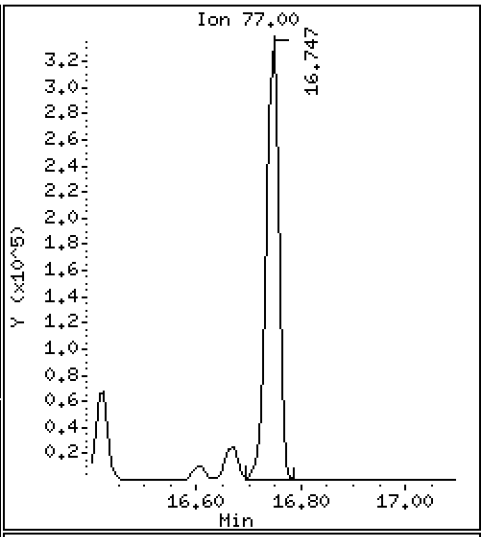
Column phase: ZB-5msi

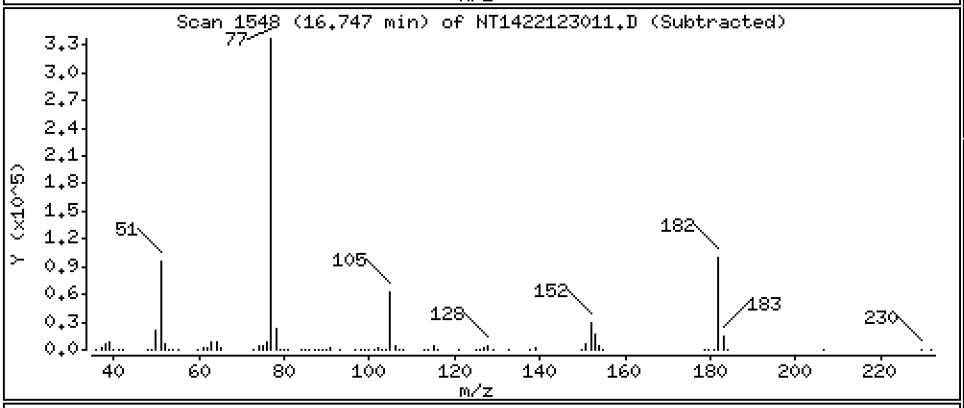
Column diameter: 0.25

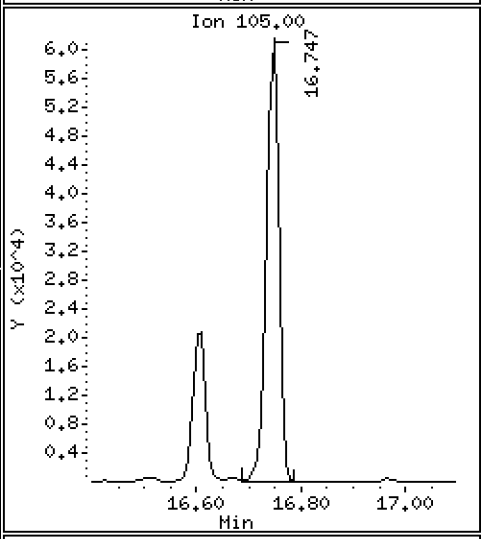
111 Azobenzene (1,2-DP-Hydrazine)

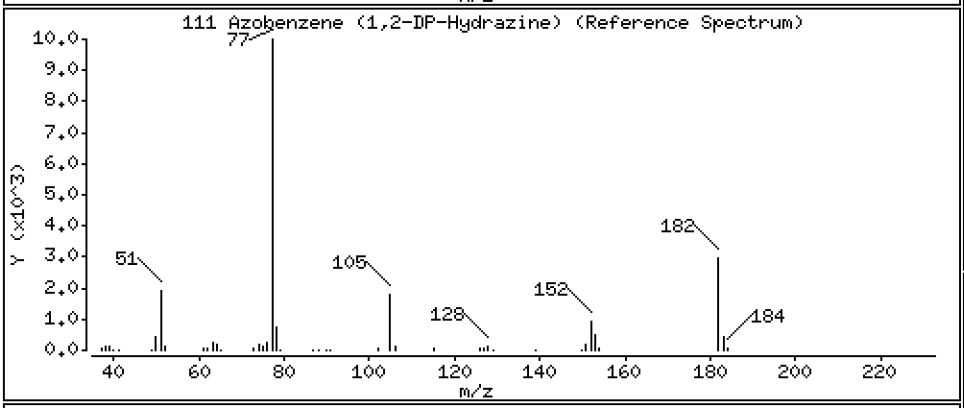
Concentration: 4.893 ug/mL

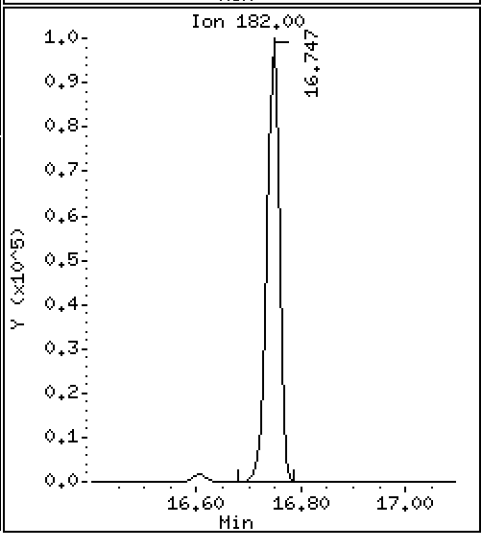


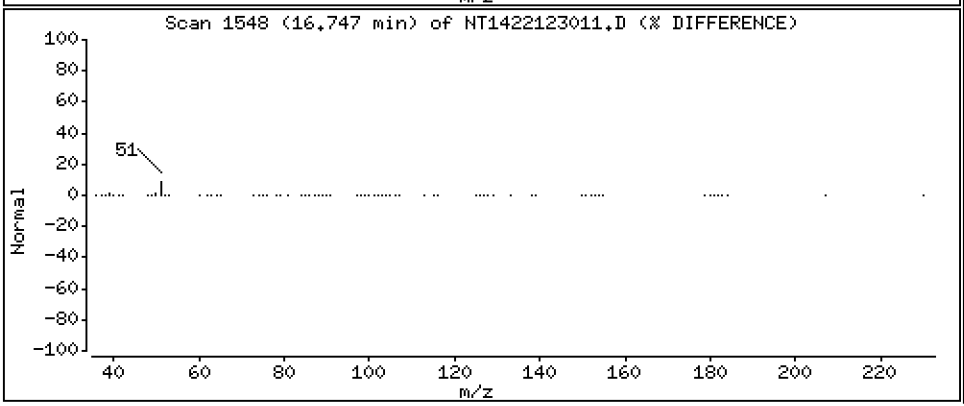












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Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

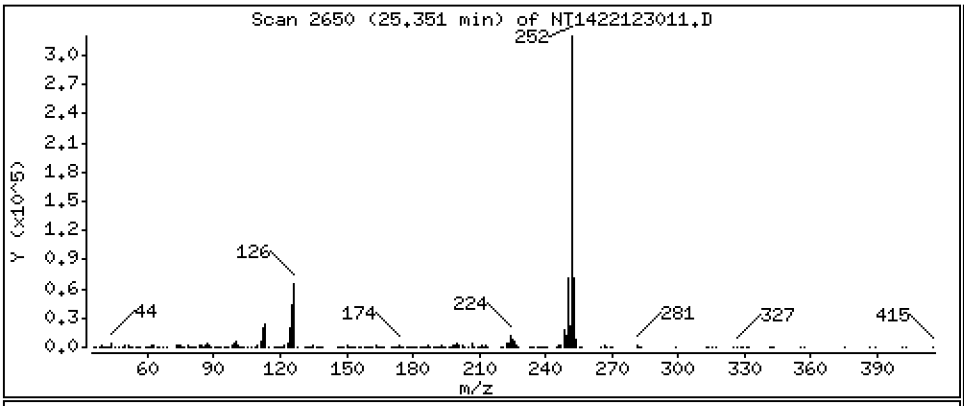
Operator: VTS

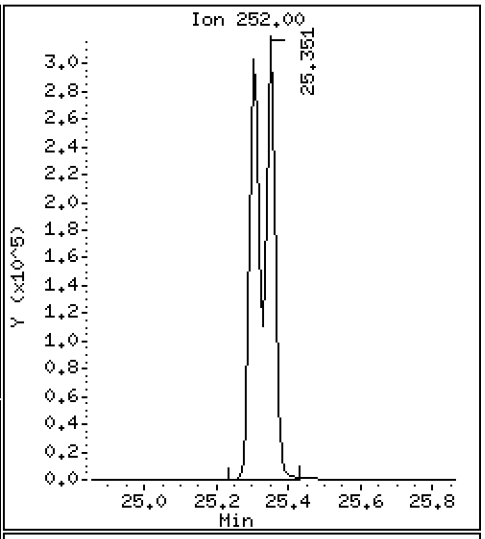
Column phase: ZB-5msi

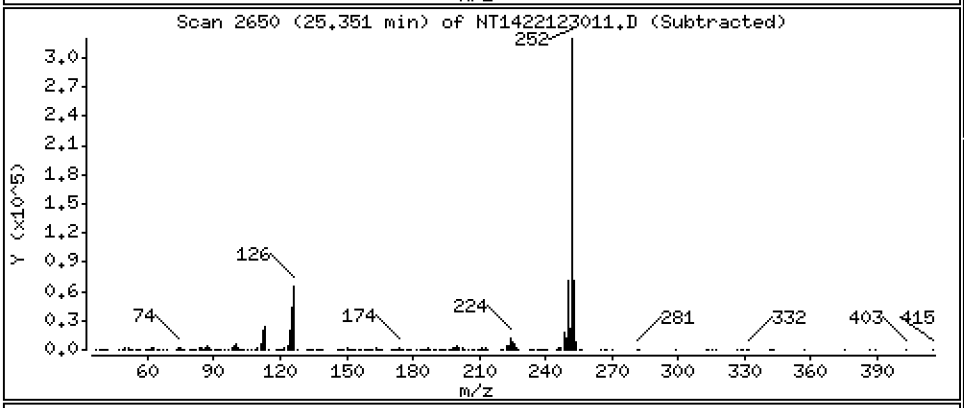
Column diameter: 0.25

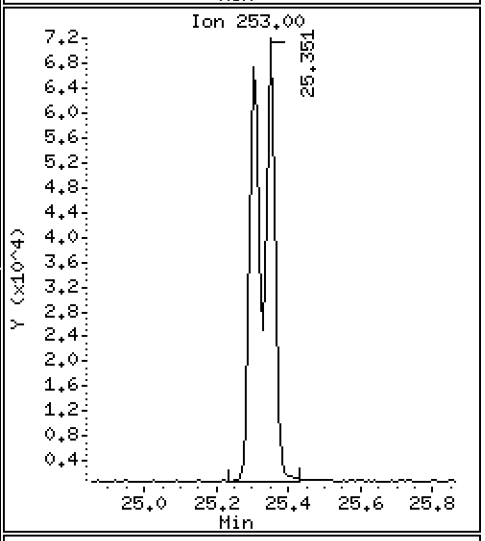
187 Total Benzofluoranthenes

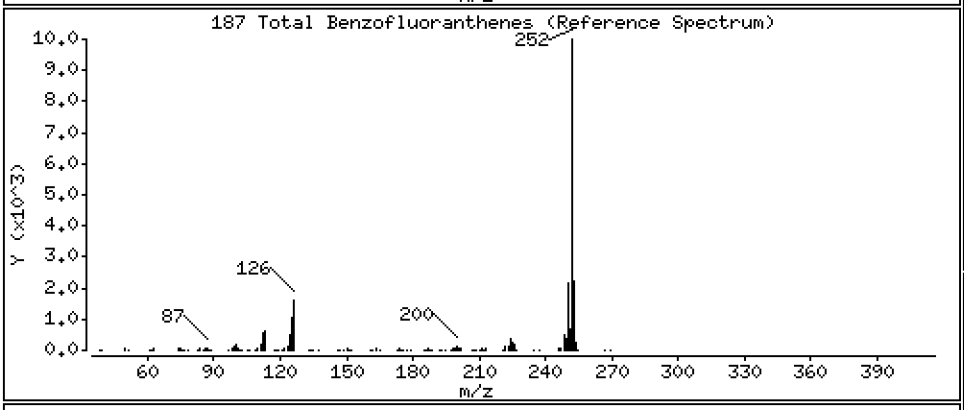
Concentration: 9.972 ug/mL

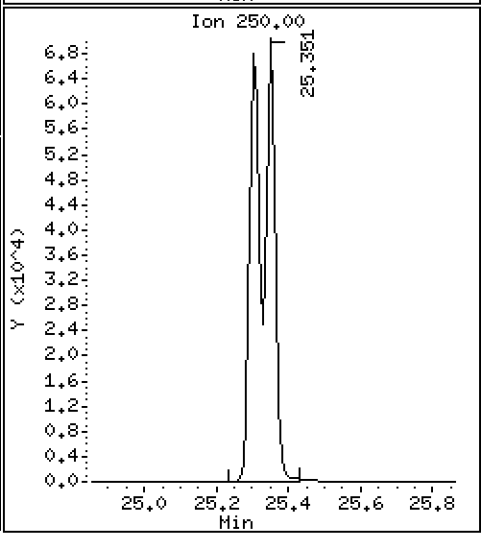


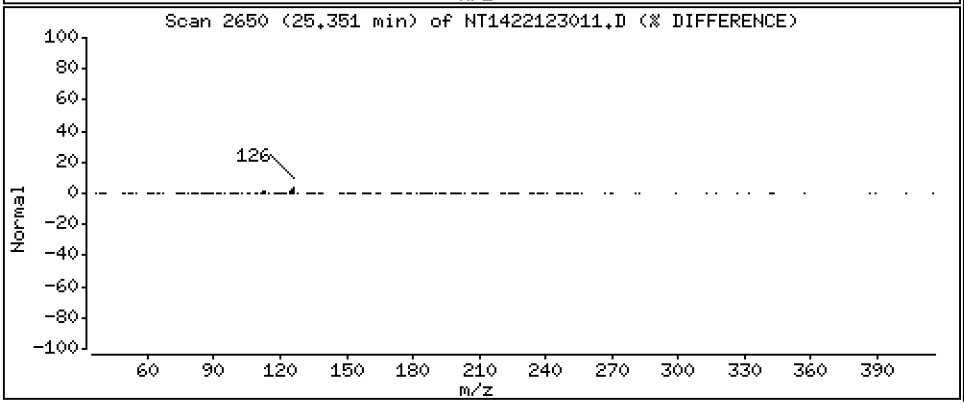












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D

Date : 30-DEC-2022 13:31

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-SCV1

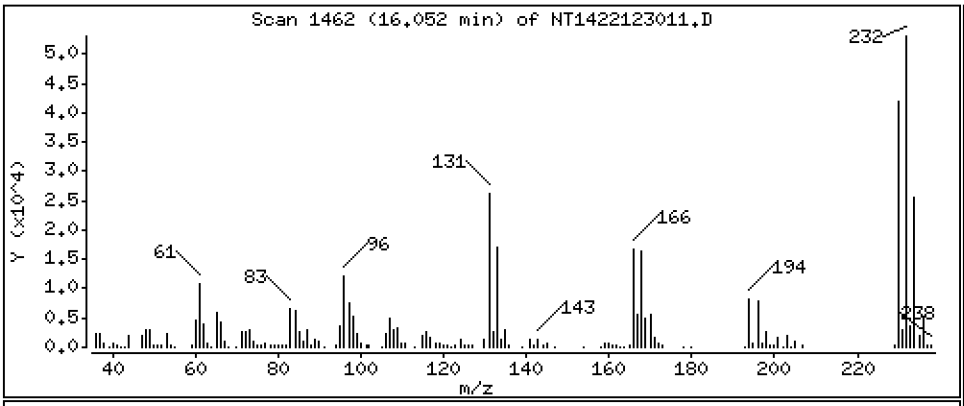
Operator: VTS

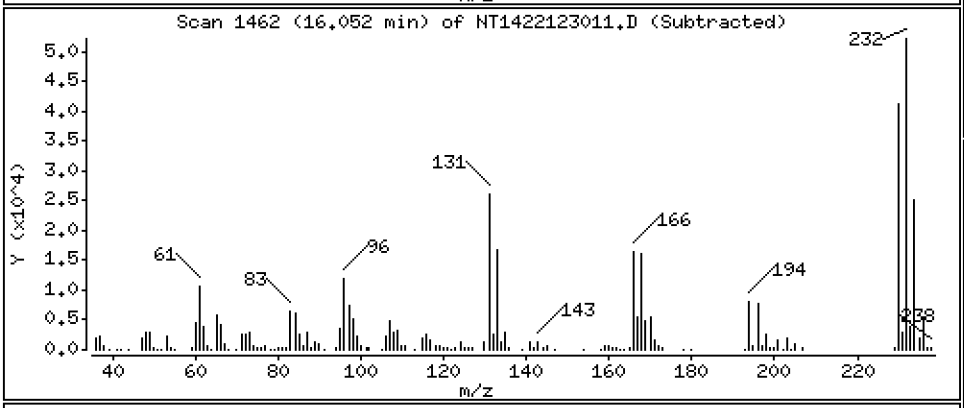
Column phase: ZB-5msi

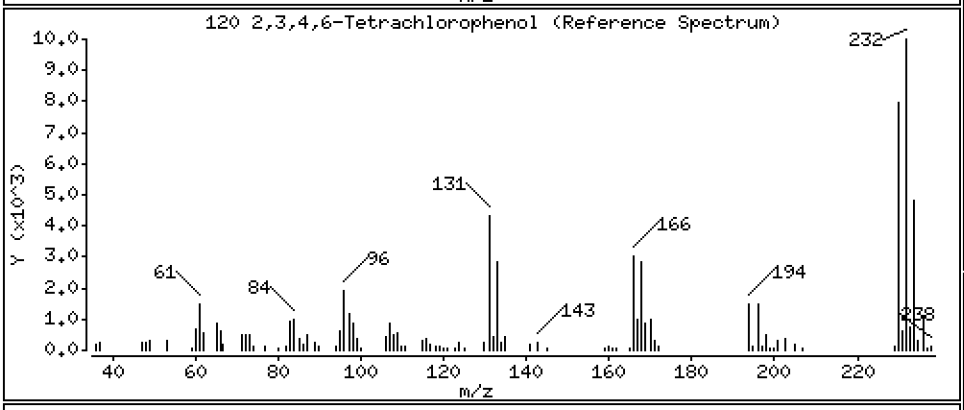
Column diameter: 0.25

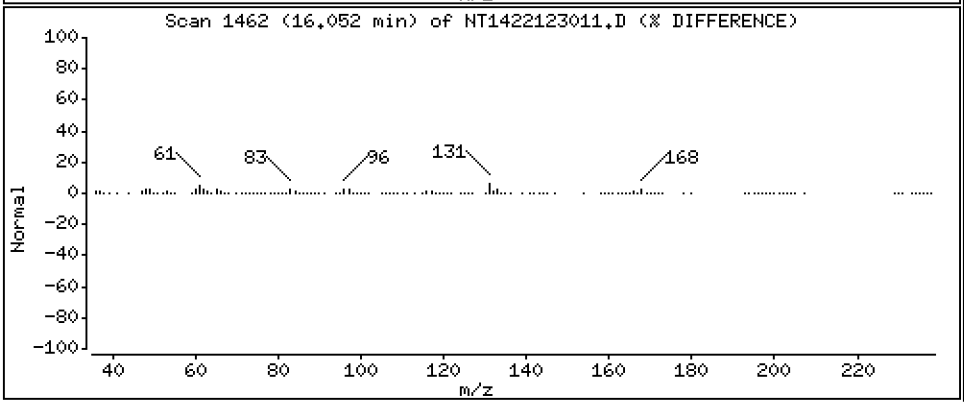
120 2,3,4,6-Tetrachlorophenol

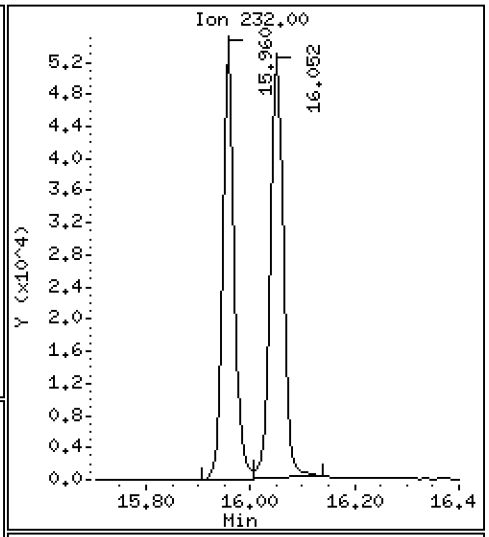
Concentration: 4.079 ug/mL

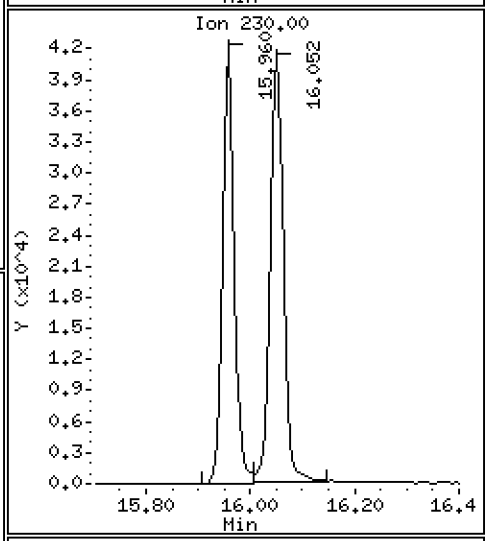


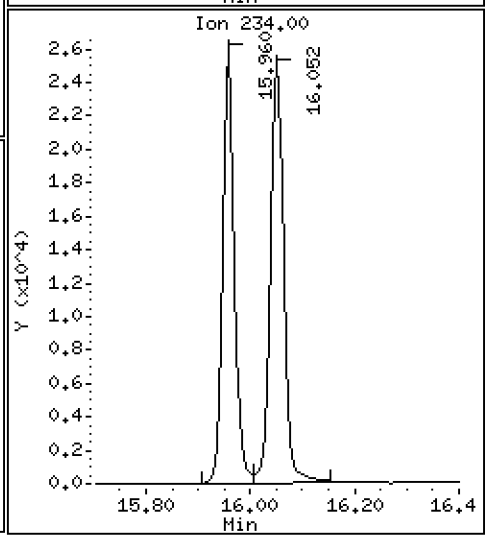












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Inj Date : 30-DEC-2022 13:31 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 11
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	340542	7.31681	7.317
$	2 Phenol-d5	99	8.526	8.526	(0.928)	425409	7.39610	7.396
	3 Phenol	94	8.550	8.549	(0.931)	284374	4.35110	4.351
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	353505	7.31802	7.318
	4 Bis(2-Chloroethyl)ether	93	8.720	8.719	(0.949)	229408	5.09546	5.095
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	236672	4.46115	4.461
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	267449	4.75416	4.754
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	145276	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	254370	4.77289	4.773
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	157368	4.76640	4.766
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	249154	4.76694	4.767
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	144889	4.97978	4.980
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	78691	5.19294	5.193
	13 2-Methylphenol	108	9.673	9.672	(1.053)	186498	3.92700	3.927
	17 Hexachloroethane	117	10.177	10.177	(1.108)	96618	4.92918	4.929
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	148366	5.12841	5.128
	15 4-Methylphenol	108	9.952	9.944	(1.084)	206520	4.12221	4.122
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	222732	4.86182	4.862
	19 Nitrobenzene	77	10.317	10.316	(0.883)	222014	4.87964	4.880
	20 Isophorone	82	10.767	10.774	(0.921)	402784	6.94605	6.946
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	131718	4.55573	4.556
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	173928	3.66274	3.663
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	255794	5.67041	5.670
	24 Benzoic acid	105	11.155	11.201	(0.954)	187105	6.38476	6.385
	25 2,4-Dichlorophenol	162	11.403	11.410	(0.976)	175656	4.38838	4.388
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	197978	4.57428	4.574
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	542519	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	642406	4.81161	4.812
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	211901	3.84856	3.849
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	103565	4.82279	4.823
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	170811	4.52201	4.522
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	452041	4.61574	4.616
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	112264	5.08058	5.081

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	107518	4.40679	4.407
35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	120450	4.27752	4.278
$ 36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	473396	4.81670	4.817
37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	397460	4.75373	4.754
38	2-Nitroaniline	65	14.381	14.389	(0.938)	110847	5.04270	5.043
39	Dimethylphthalate	163	14.815	14.822	(0.967)	414043	5.02258	5.023
40	Acenaphthylene	152	15.008	15.008	(0.979)	637390	4.99964	5.000
41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	95155	5.11473	5.115
* 42	Acenaphthene-d10	164	15.325	15.325	(1.000)	292314	4.00000	
43	3-Nitroaniline	138	15.233	15.240	(0.994)	115042	5.08768	5.088
44	Acenaphthene	153	15.387	15.394	(1.004)	388683	4.91555	4.916
45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	32313	2.03614	2.036
46	Dibenzofuran	168	15.720	15.719	(1.026)	558398	4.70917	4.709
47	4-Nitrophenol	109	15.542	15.549	(1.014)	44501	4.07655	4.077
48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	126494	4.95564	4.956
50	Diethylphthalate	149	16.276	16.283	(1.062)	599841	5.35338	5.353
49	Fluorene	166	16.431	16.438	(1.072)	659773	5.23034	5.230
51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	314576	5.09376	5.094
52	4-Nitroaniline	138	16.508	16.515	(1.077)	130156	4.73349	4.733
53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	82579	4.08155	4.082
54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	391689	4.77466	4.775
$ 55	2,4,6-Tribromophenol	330	16.963	16.970	(1.107)	103080	7.23936	7.239
56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	153403	4.93837	4.938
57	Hexachlorobenzene	284	17.750	17.749	(0.966)	155193	4.55261	4.553
58	Pentachlorophenol	266	18.098	18.106	(0.985)	57071	3.79567	3.796
* 59	Phenanthrene-d10	188	18.369	18.376	(1.000)	478070	4.00000	
60	Phenanthrene	178	18.423	18.423	(1.003)	594211	4.76715	4.767
61	Anthracene	178	18.516	18.516	(1.008)	520344	4.37286	4.373
62	Carbazole	167	18.833	18.841	(1.025)	531516	4.62047	4.620
63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	666827	4.93141	4.931
64	Fluoranthene	202	20.798	20.806	(0.888)	676060	5.09000	5.090
65	Pyrene	202	21.224	21.231	(0.906)	701324	5.02201	5.022
$ 66	Terphenyl-d14	244	21.503	21.510	(0.918)	476897	4.81614	4.816
67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	268323	5.00461	5.005
68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	611047	4.88991	4.890
* 69	Chrysene-d12	240	23.415	23.415	(1.000)	412507	4.00000	
70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.996)	352190	9.20673	9.207
71	Chrysene	228	23.454	23.461	(1.002)	562245	4.76333	4.763
72	bis(2-Ethylhexyl)phthalate	149	23.446	23.446	(0.959)	386843	5.89917	5.899
* 134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	590464	4.00000	
73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	720505	5.08341	5.083
74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	583736	4.89261	4.893
75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	618510	5.09341	5.093
76	Benzo(a)pyrene	252	25.985	25.985	(0.996)	505003	5.09168	5.092
* 77	Perylene-d12	264	26.102	26.101	(1.000)	379639	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.861	28.869	(1.106)	578206	5.12831	5.128
79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	487403	5.08716	5.087
80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	475788	5.03737	5.037
90	N-Nitrosodimethylamine	74	4.749	4.749	(0.517)	165220	5.15442	5.154
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.023	21.030	(0.898)	511157	9.70402	9.704
103	Pyridine	79	4.788	4.780	(0.521)	273100	2.68129	2.681
105	1-methylnaphthalene	142	13.360	13.359	(1.143)	439557	4.67125	4.671
111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	531158	4.89310	4.893

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	1150223	9.97185	9.972
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86828	4.07937	4.079

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123011.D
Lab Smp Id: SKL0355-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	145276	-3.80
27 Naphthalene-d8	553510	276755	1107020	542519	-1.99
42 Acenaphthene-d10	305411	152706	610822	292314	-4.29
59 Phenanthrene-d10	491708	245854	983416	478070	-2.77
69 Chrysene-d12	424740	212370	849480	412507	-2.88
134 Di-n-octylphthala	684951	342476	1369902	590464	-13.79
77 Perylene-d12	395150	197575	790300	379639	-3.93

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.42	0.00
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123011.D

Lab ID: SKL0355-ICV1
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 13:31

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Phenol	A	5.0000	4.8	1.7995200	1.7186490		-4.5	+/-20
bis(2-chloroethyl) ether	A	5.0000	4.7	1.2396270	1.1687670		-5.7	+/-20
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3681350		-6.3	+/-20
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4109450		-8.9	+/-20
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3357980		-9.0	+/-20
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3306780		-7.5	+/-20
Benzyl Alcohol	A	5.0000	5.0	0.8011083	0.7946779		-0.8	+/-20
2,2'-Oxybis(1-chloropropane)	A	5.0000	3.7	0.4172325	0.3114626		-25.4	+/-20
2-Methylphenol	A	5.0000	4.9	1.3076140	1.2704620		-2.8	+/-20
Hexachloroethane	A	5.0000	4.8	0.5396966	0.5156443		-4.5	+/-20
N-Nitroso-di-n-Propylamine	A	5.0000	5.2	0.7965591	0.8215703		3.1	+/-20
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3507770		-2.1	+/-20
Nitrobenzene	A	5.0000	4.8	0.3354574	0.3249964		-3.1	+/-20
Isophorone	A	5.0000	5.1	0.4275424	0.4360834		2.0	+/-20
2-Nitrophenol	A	5.0000	4.7	0.2064997	0.2006646		-6.0	+/-20
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3313579		-5.4	+/-20
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3091756		-7.0	+/-20
2,4-Dichlorophenol	A	10.000	10.0	0.2951237	0.2957658		0.2	+/-20
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2849054		-10.7	+/-20
Naphthalene	A	5.0000	4.6	0.9843833	0.9012306		-8.4	+/-20
Benzoic acid	A	20.000	17.4	0.1508906	0.1927720		-13.1	+/-20
4-Chloroaniline	A	10.000	9.7	0.4059568	0.3950751		-2.7	+/-20
Hexachlorobutadiene	A	5.0000	4.5	0.1583286	0.1436317		-9.3	+/-20
4-Chloro-3-Methylphenol	A	10.000	10.0	0.2785027	0.2790104		0.2	+/-20
2-Methylnaphthalene	A	5.0000	4.7	0.7220739	0.6764344		-6.3	+/-20
Hexachlorocyclopentadiene	A	10.000	9.7	0.3023695	0.2926780		-3.2	+/-20
2,4,6-Trichlorophenol	A	10.000	9.8	0.3338641	0.3282511		-1.7	+/-20
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3798122		-1.4	+/-20
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0587470		-7.5	+/-20
2-Nitroaniline	A	10.000	10.7	0.3007956	0.3208828		6.7	+/-20

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6444420		-5.7	+/-20
Dimethylphthalate	A	5.0000	4.7	1.1280520	1.0645420		-5.6	+/-20
2,6-Dinitrotoluene	A	10.000	9.9	0.2545771	0.2527094		-0.7	+/-20
Acenaphthene	A	5.0000	4.6	1.0820160	0.9983132		-7.7	+/-20
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3068867		-0.8	+/-20
2,4-Dinitrophenol	A	20.000	17.6	0.1831718	0.1983905		-11.9	+/-20
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4754640		-9.1	+/-20
4-Nitrophenol	A	10.000	9.4	0.1384031	0.1428400		-5.6	+/-20
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3453545		-1.1	+/-20
Fluorene	A	5.0000	4.9	1.7261350	1.7055820		-1.2	+/-20
4-Chlorophenylphenyl ether	A	5.0000	4.7	0.8450792	0.7886722		-6.7	+/-20
Diethyl phthalate	A	5.0000	5.0	1.5332690	1.5233580		-0.6	+/-20
4-Nitroaniline	A	10.000	9.6	0.3413732	0.3662170		-3.8	+/-20
4,6-Dinitro-2-methylphenol	A	20.000	19.2	0.1530278	0.1682270		-4.0	+/-20
N-Nitrosodiphenylamine	A	5.0000	4.6	0.6863845	0.6341271		-7.6	+/-20
4-Bromophenyl phenyl ether	A	5.0000	4.6	0.2599074	0.2391345		-8.0	+/-20
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2573836		-9.8	+/-20
Pentachlorophenol	A	10.000	8.9	0.1128364	0.1152245		-10.9	+/-20
Phenanthrene	A	5.0000	4.6	1.0429190	0.9576970		-8.2	+/-20
Anthracene	A	5.0000	4.9	0.9956202	0.9715587		-2.4	+/-20
Carbazole	A	5.0000	4.7	0.9624945	0.9004501		-6.4	+/-20
Di-n-Butylphthalate	A	5.0000	4.8	1.0394700	1.0864340		-3.9	+/-20
Fluoranthene	A	5.0000	4.9	1.2879410	1.2525890		-2.7	+/-20
Pyrene	A	5.0000	4.8	1.3541610	1.3113600		-3.2	+/-20
Butylbenzylphthalate	A	5.0000	4.9	0.4650792	0.5059756		-2.6	+/-20
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1621750		-4.1	+/-20
3,3'-Dichlorobenzidine	A	15.000	12.3	0.3709370	0.3029352		-18.3	+/-20
Chrysene	A	5.0000	4.7	1.1445730	1.0736030		-6.2	+/-20
bis(2-Ethylhexyl)phthalate	A	5.0000	5.5	0.4442323	0.4858836		9.4	+/-20
Di-n-Octylphthalate	A	5.0000	4.5	0.9601702	0.8720979		-9.2	+/-20

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123014.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/30/22
Lab Sample ID:	SKL0355-ICV2	Injection Time:	15:53
Sequence Name:	ABN 5		

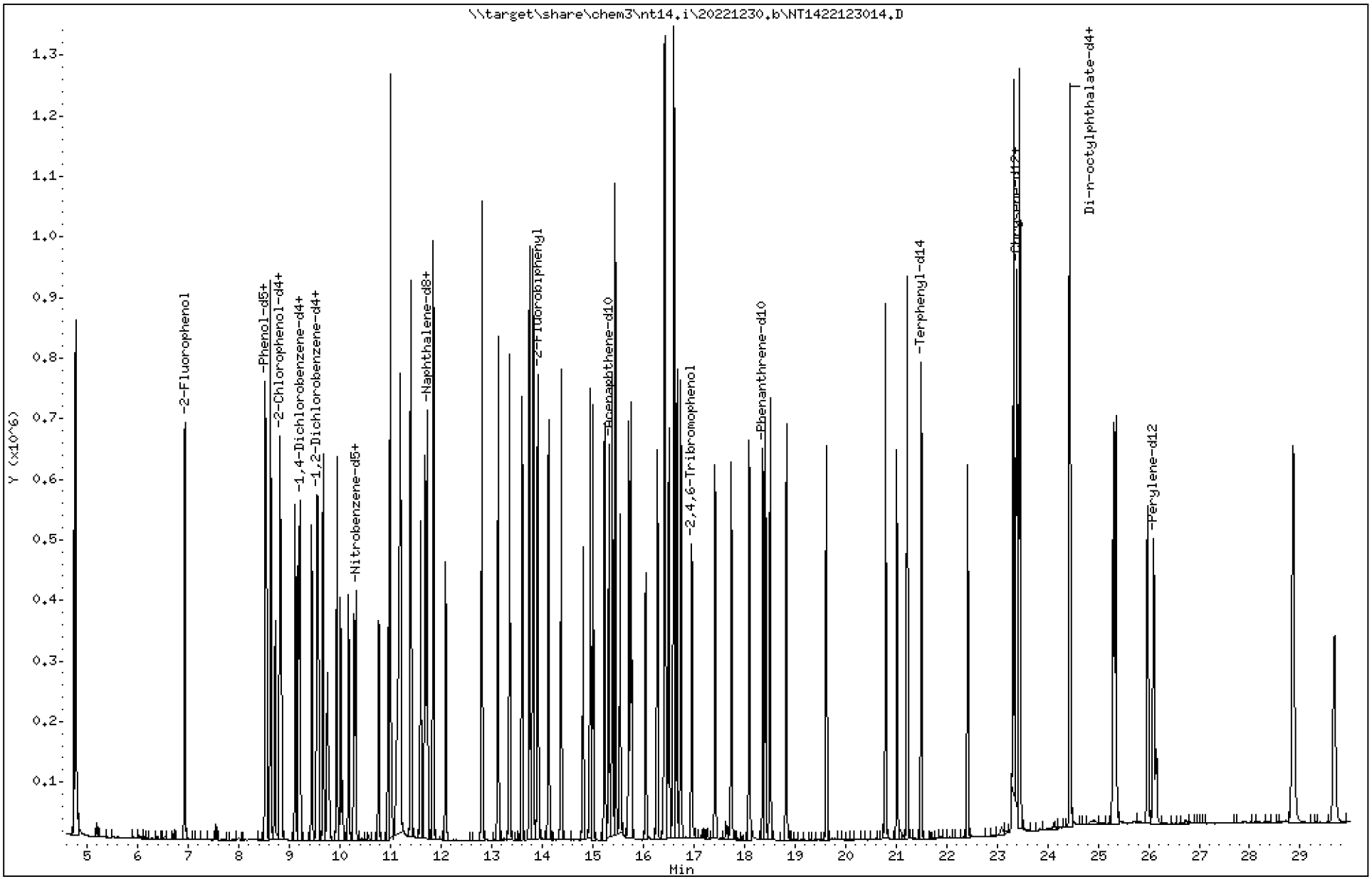
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Benzofluoranthenes, Total	A	10.000	9.4	1.2153330	1.1416210		-6.1	+/-20
Benzo(a)pyrene	A	5.0000	4.8	1.0450150	1.0073260		-3.6	+/-20
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.1879490	1.1725880		-1.3	+/-20
Dibenzo(a,h)anthracene	A	5.0000	4.8	1.0094890	0.9662532		-4.3	+/-20
Benzo(g,h,i)perylene	A	5.0000	4.9	0.9951726	0.9750521		-2.0	+/-20
1-Methylnaphthalene	A	5.0000	4.7	0.6937882	0.6529617		-5.9	+/-20
2-Fluorophenol	A	7.5000	7.37	1.2814900	1.2598380		-1.7	+/-20
Phenol-d5	A	7.5000	7.46	1.5836890	1.5743540		-0.6	+/-20
2-Chlorophenol-d4	A	7.5000	7.24	1.3300510	1.2841510		-3.5	+/-20
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8501916		-6.5	+/-20
Nitrobenzene-d5	A	5.0000	5.01	0.3377760	0.3384311		0.2	+/-20
2-Fluorobiphenyl	A	5.0000	4.64	1.3448860	1.2475250		-7.2	+/-20
2,4,6-Tribromophenol	A	7.5000	6.82	0.1844845	0.1766959		-9.1	+/-20
p-Terphenyl-d14	A	5.0000	4.75	0.9601842	0.9117019		-5.0	+/-20
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0	
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0	
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0	
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0	
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0	
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0	
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0	

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D
Date : 30-DEC-2022 15:53
Client ID:
Sample Info: SKL0355-ICV2

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

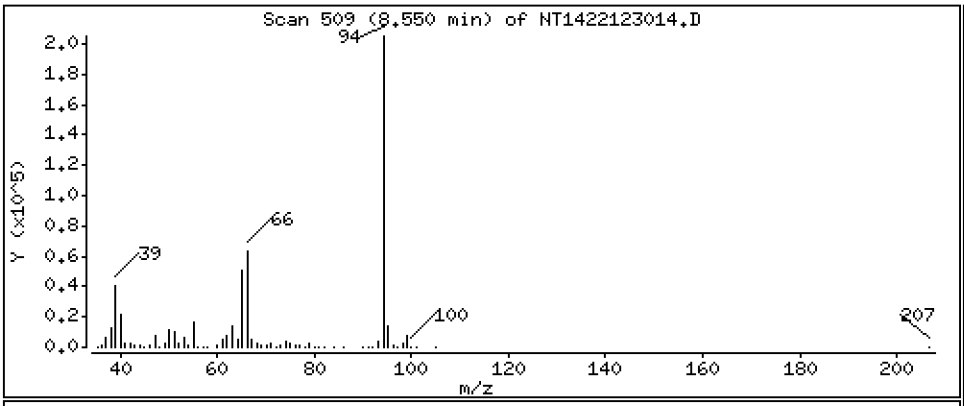
Operator: VTS

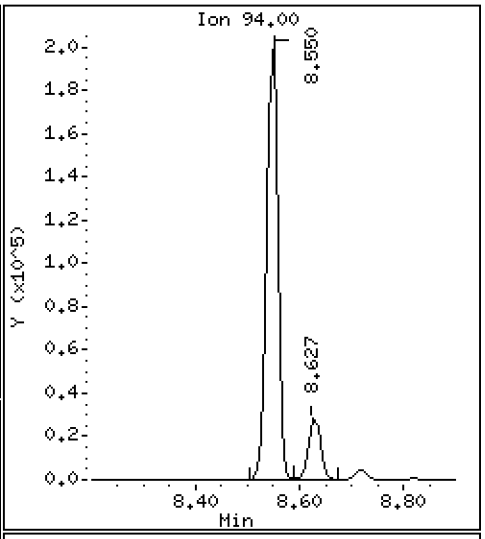
Column phase: ZB-5msi

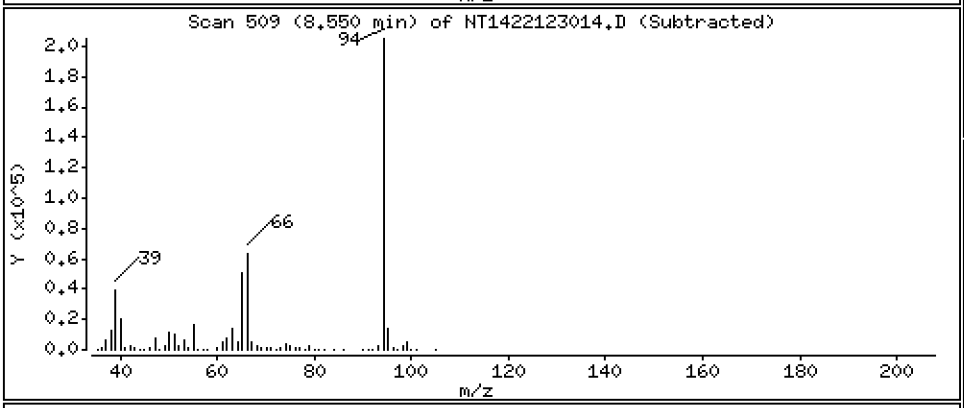
Column diameter: 0.25

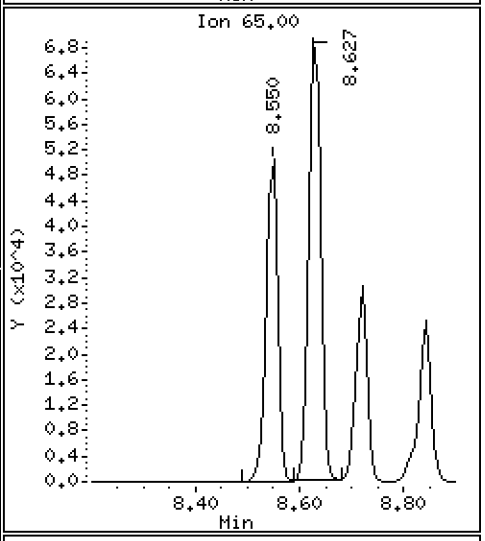
3 Phenol

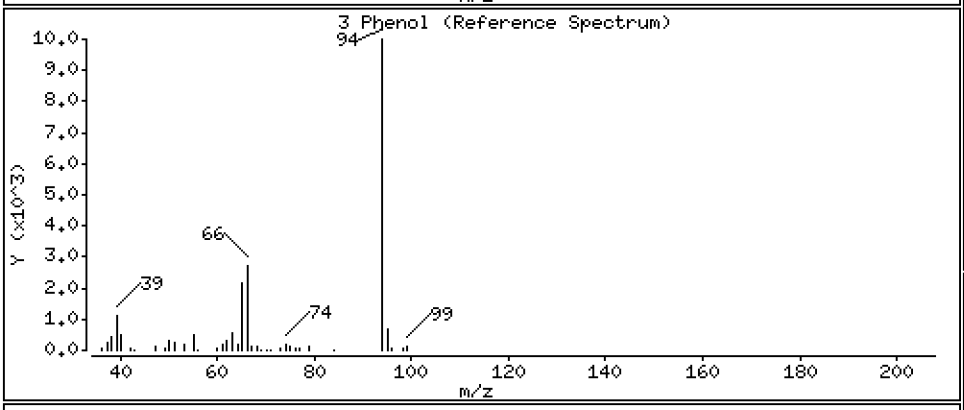
Concentration: 4.775 ug/mL

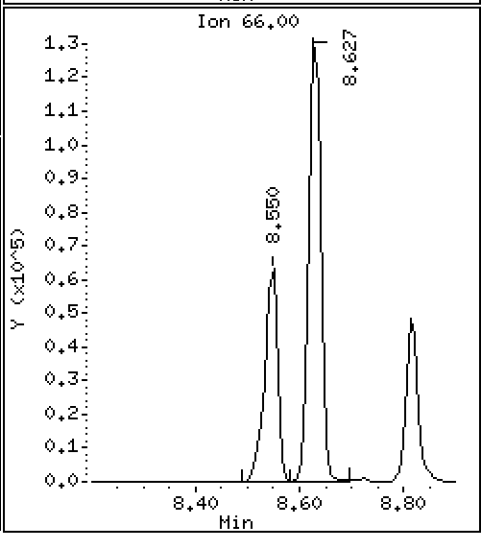


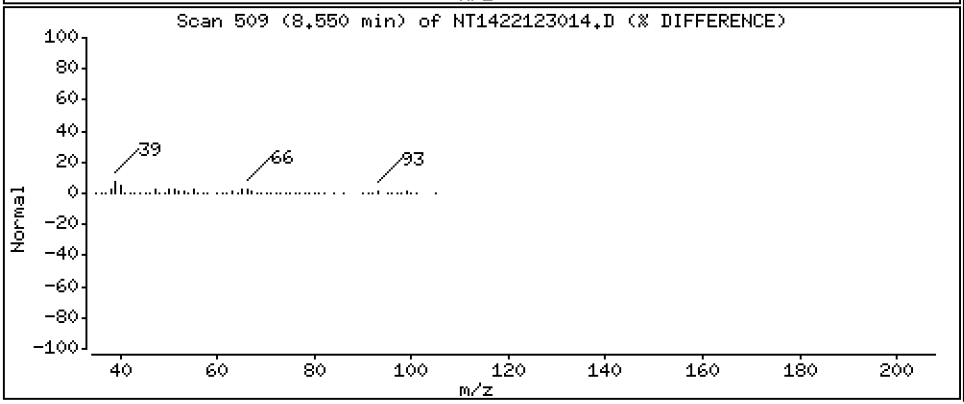












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

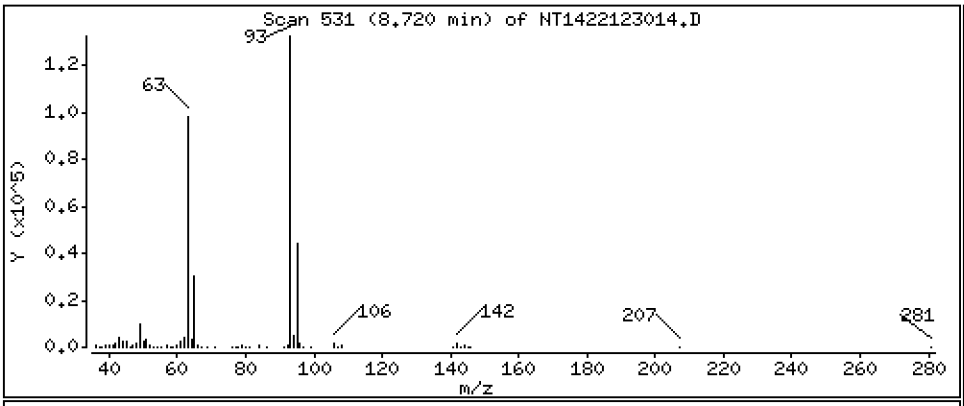
Operator: VTS

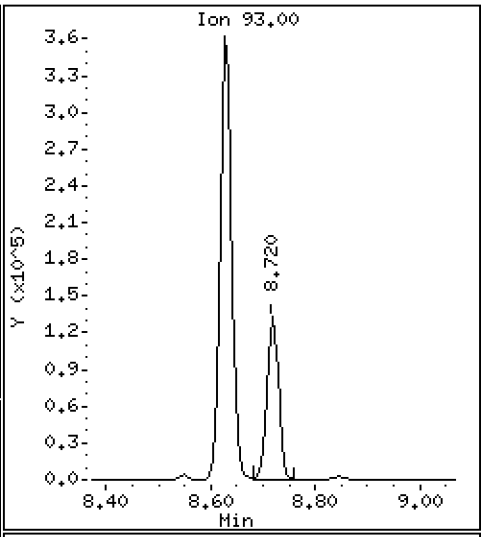
Column phase: ZB-5msi

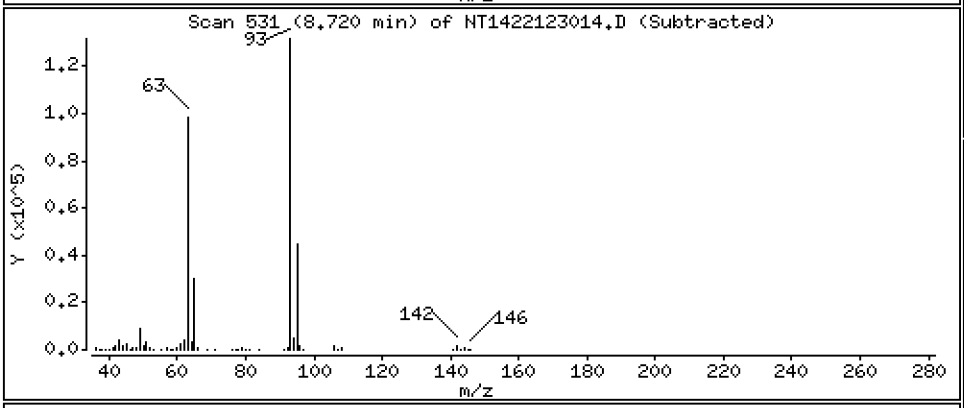
Column diameter: 0.25

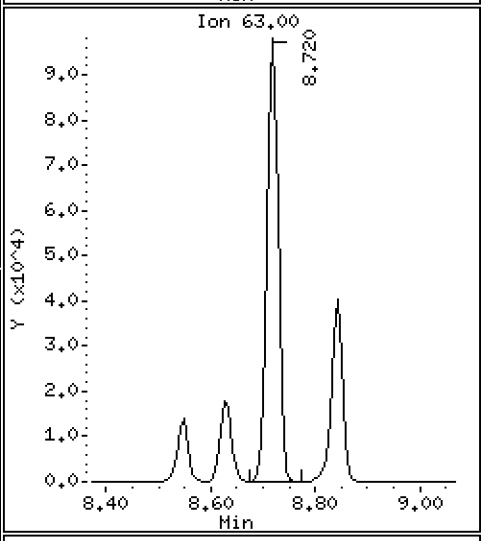
4 Bis(2-Chloroethyl)ether

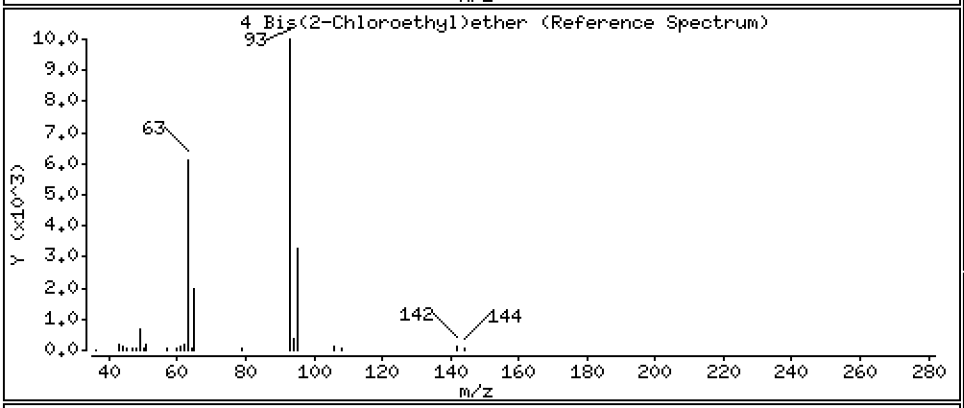
Concentration: 4.714 ug/mL

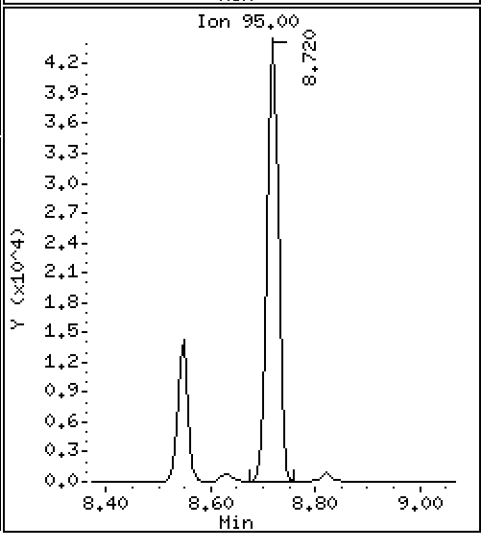


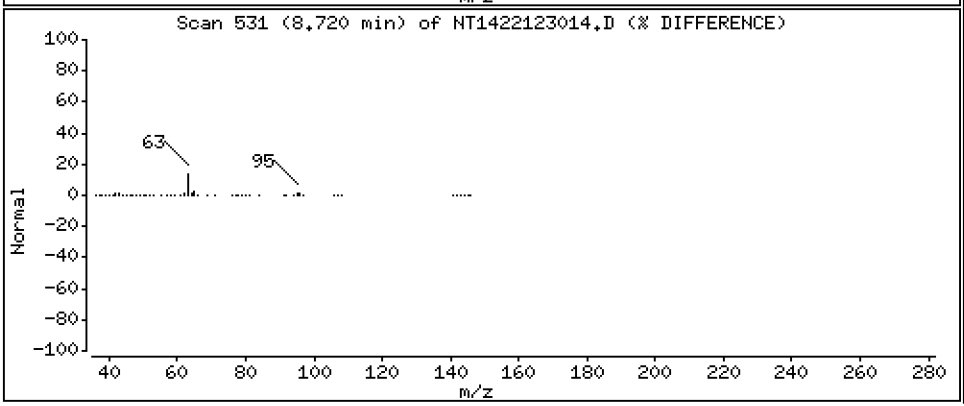












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

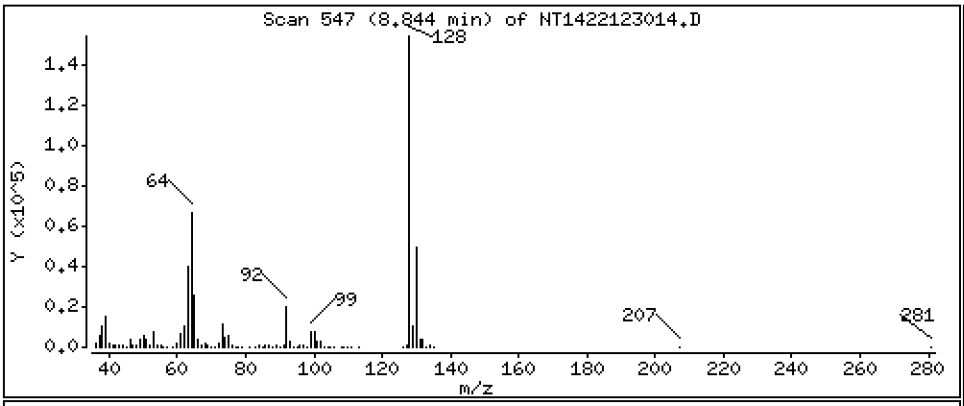
Operator: VTS

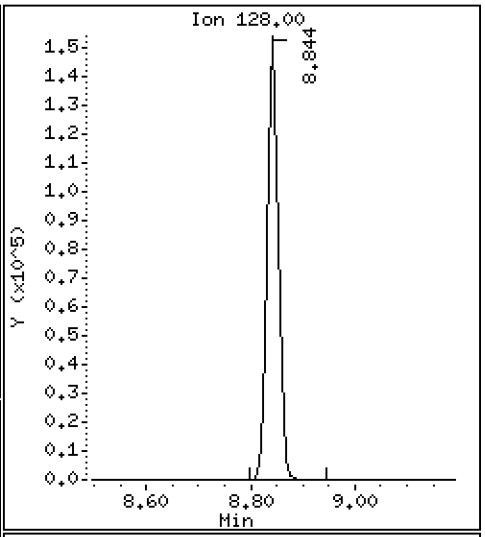
Column phase: ZB-5msi

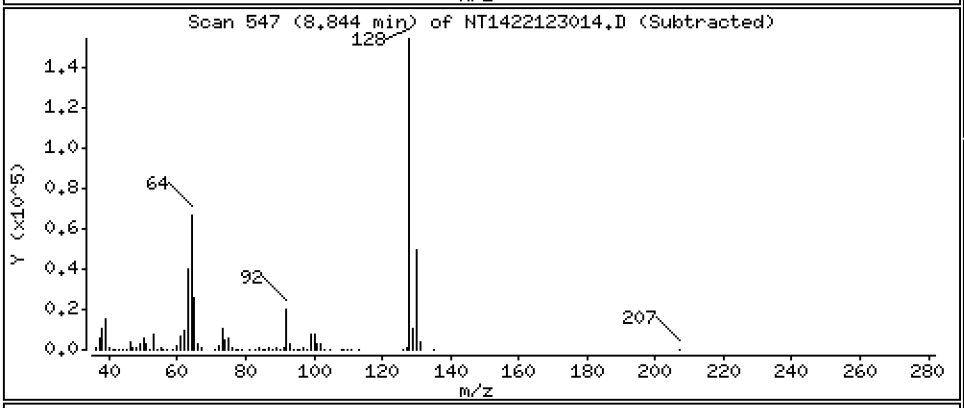
Column diameter: 0.25

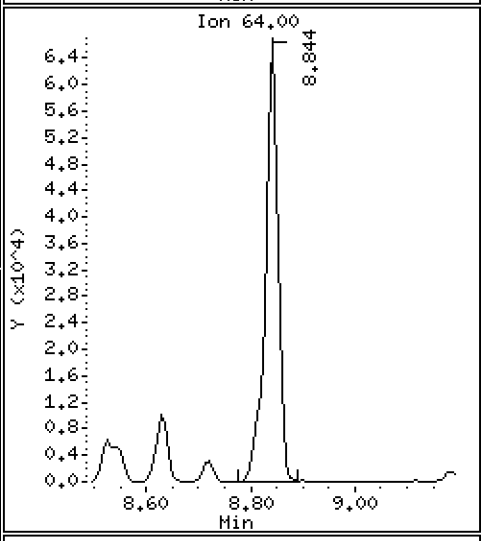
6 2-Chlorophenol

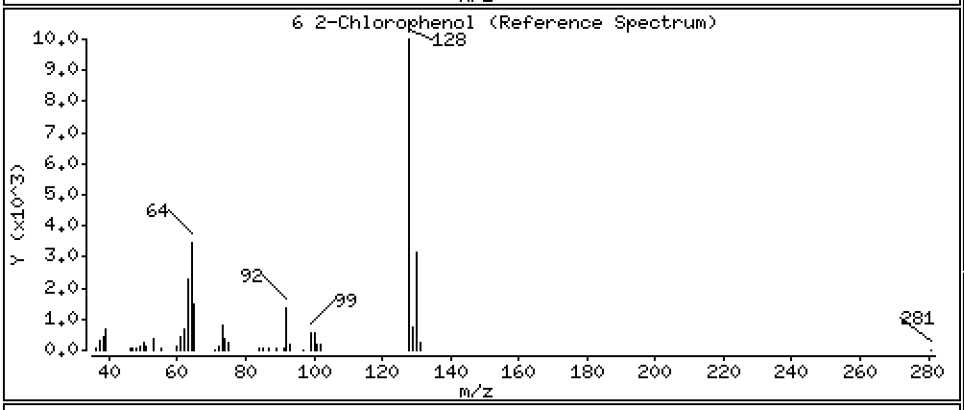
Concentration: 4.683 ug/mL

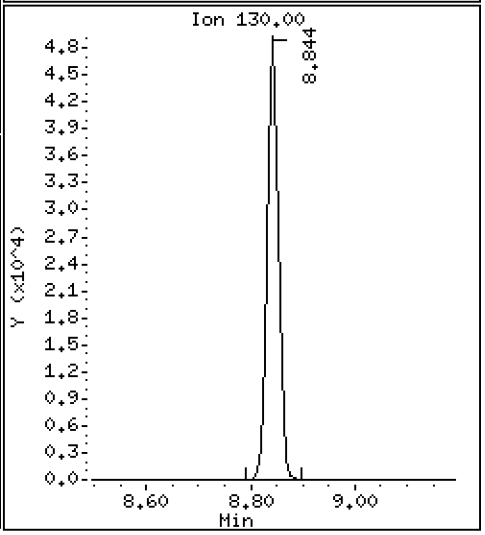


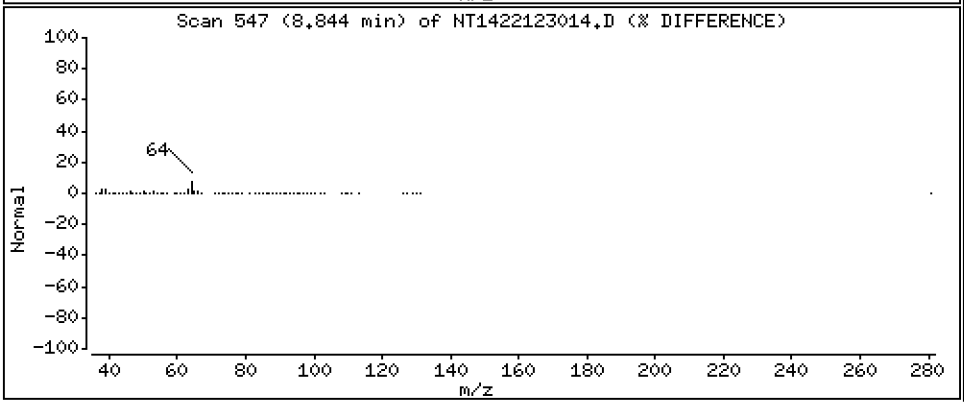












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

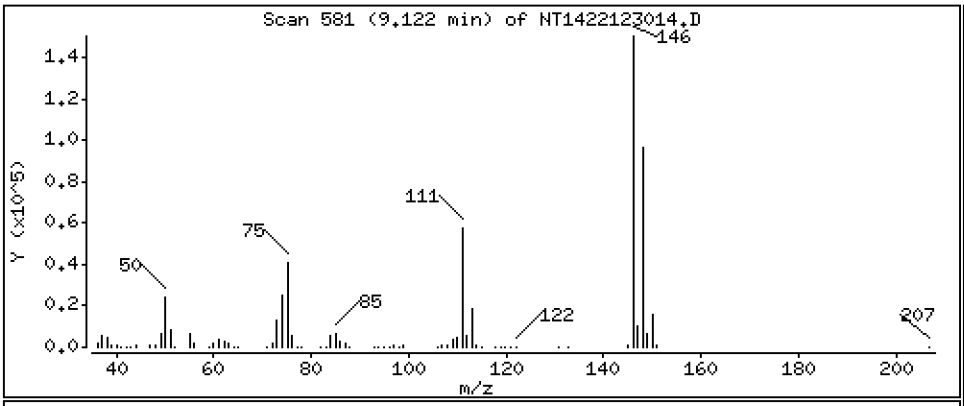
Operator: VTS

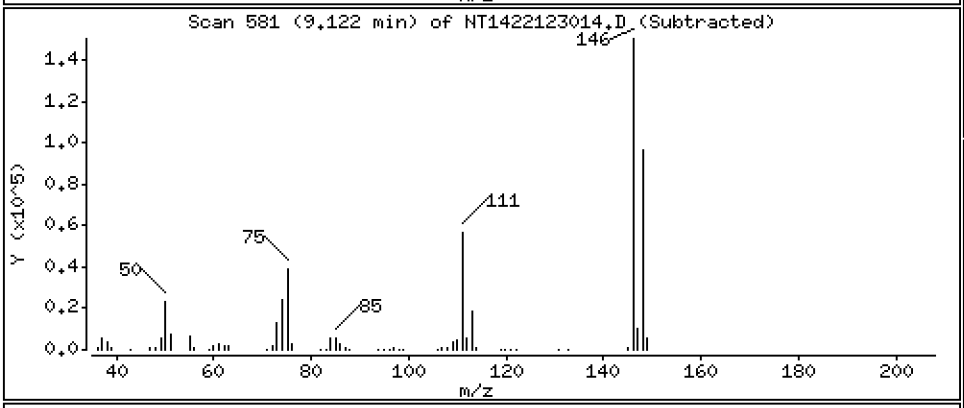
Column phase: ZB-5msi

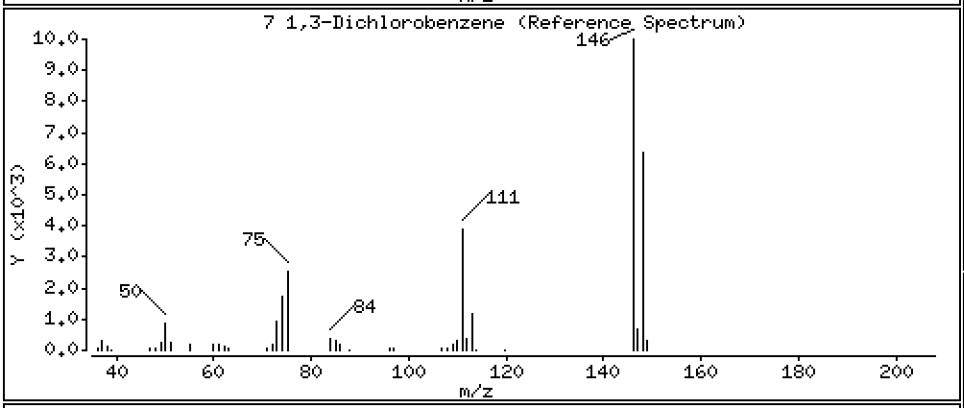
Column diameter: 0.25

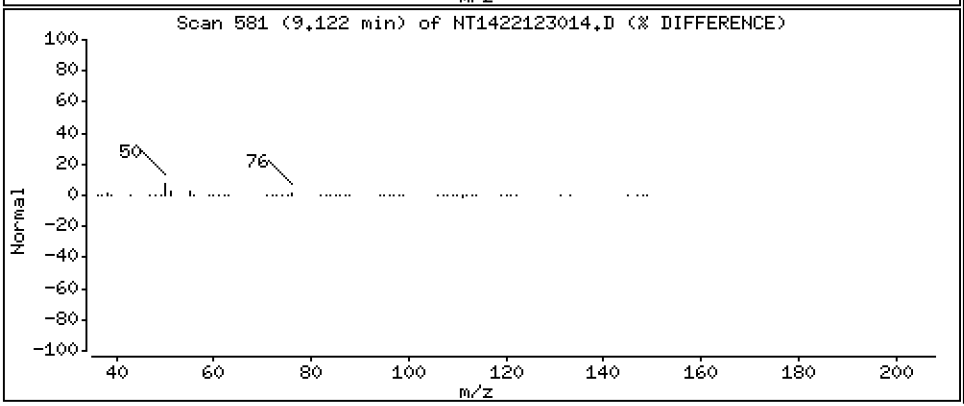
7 1,3-Dichlorobenzene

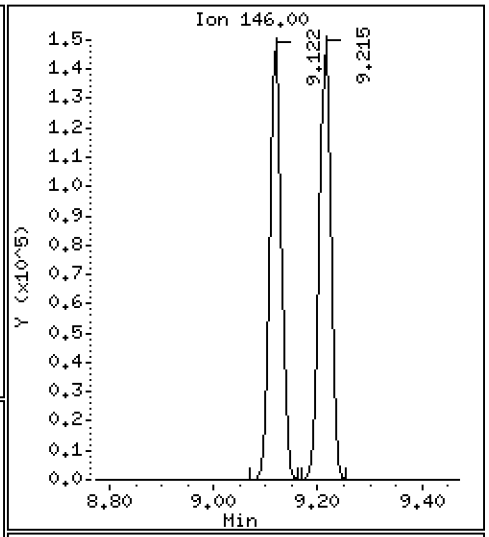
Concentration: 4.555 ug/mL

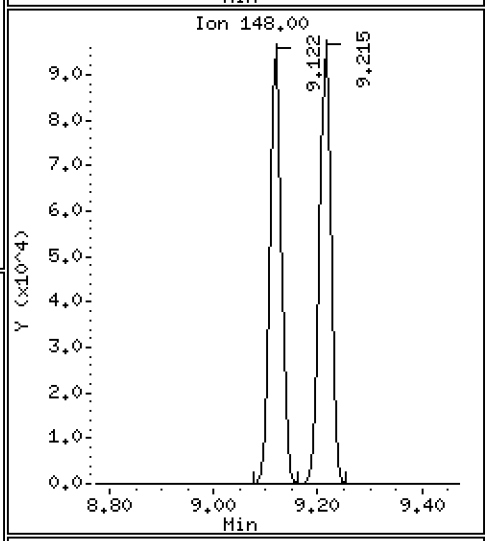


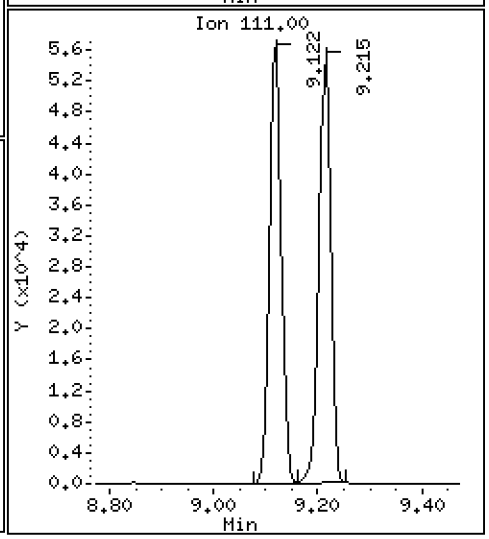












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

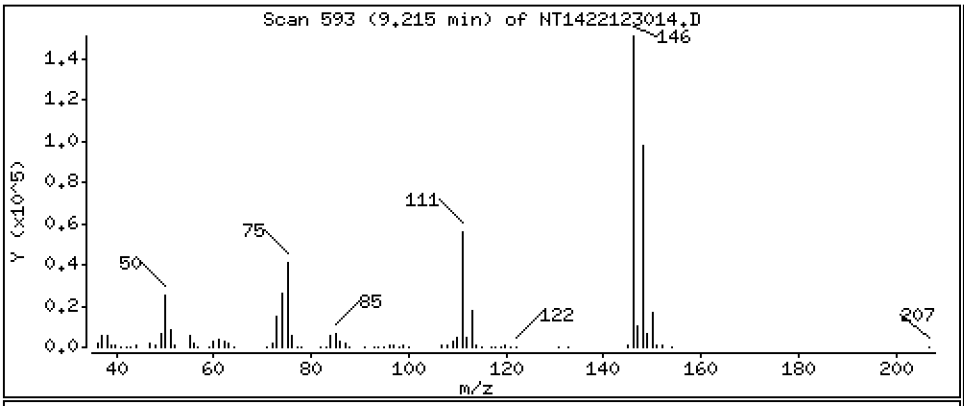
Operator: VTS

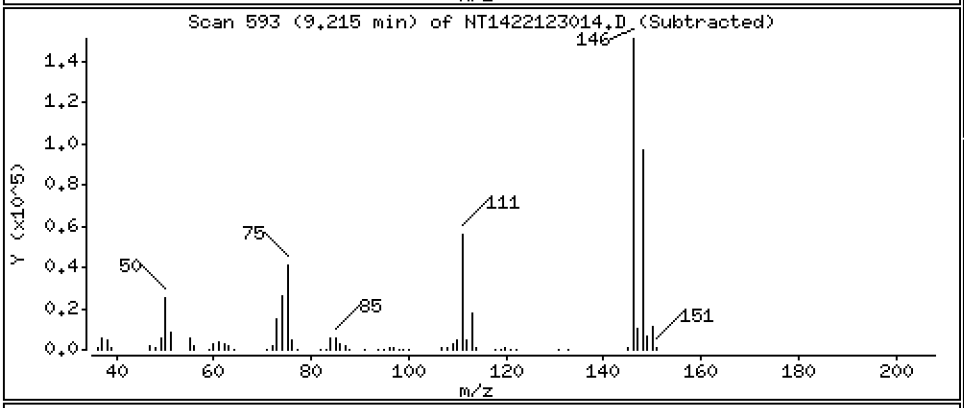
Column phase: ZB-5msi

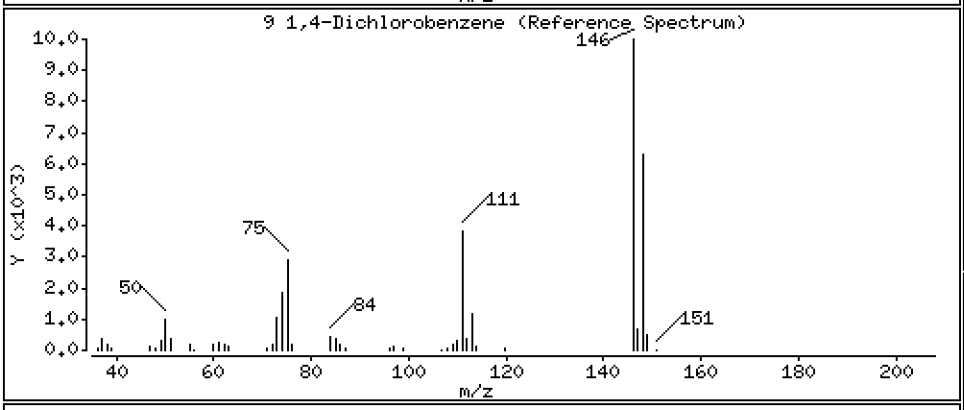
Column diameter: 0.25

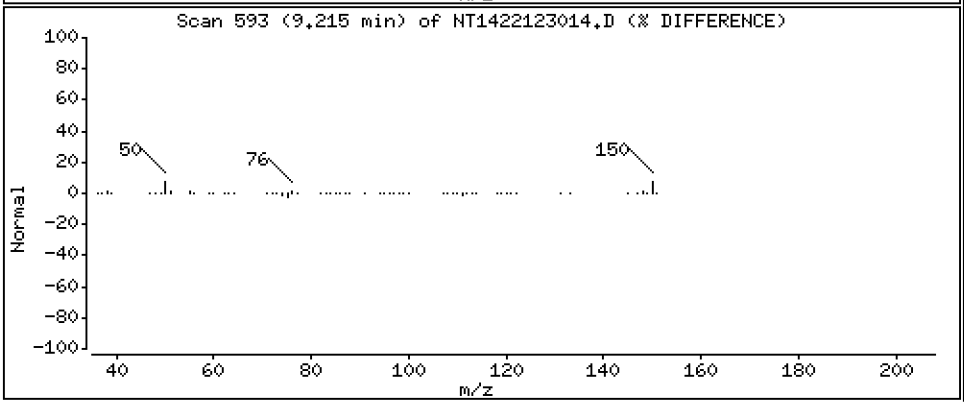
9 1,4-Dichlorobenzene

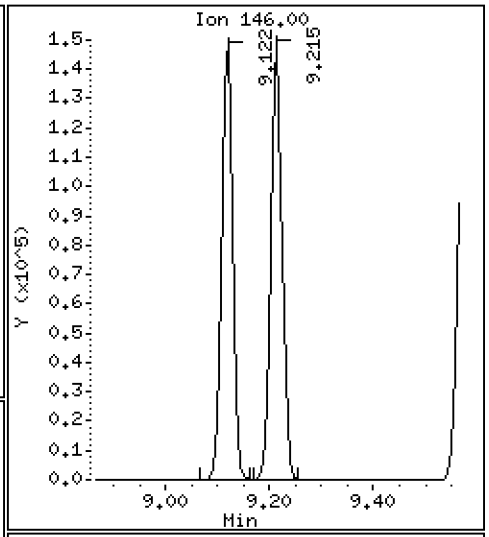
Concentration: 4.552 ug/mL

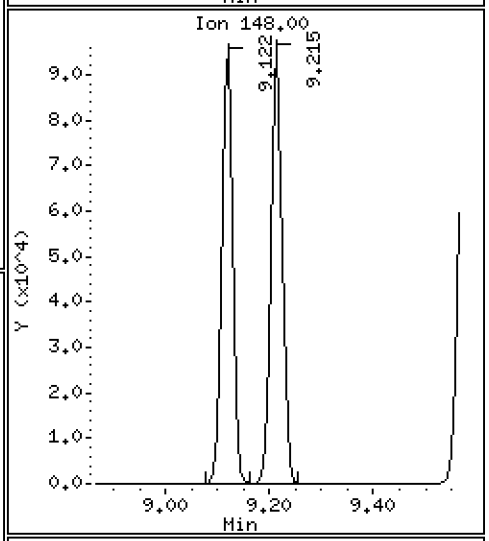


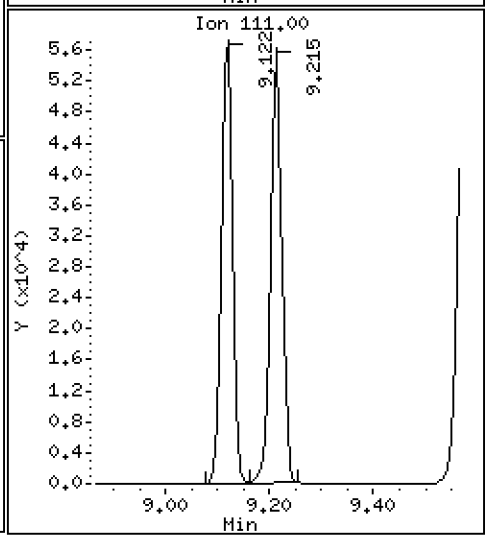












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

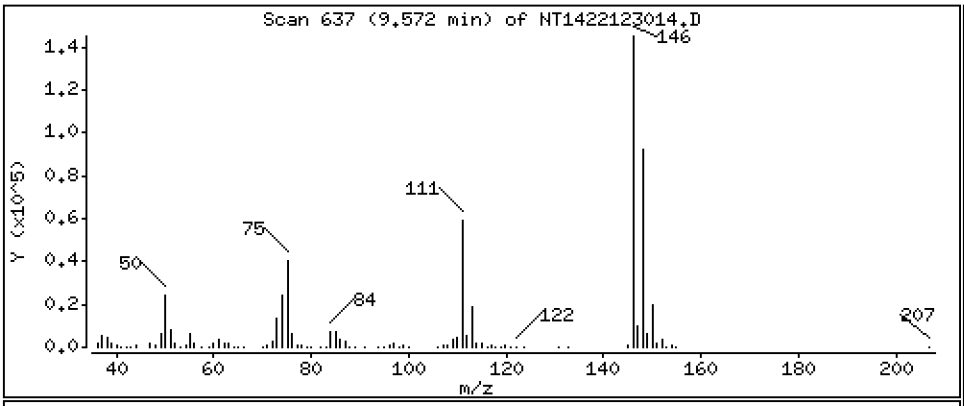
Operator: VTS

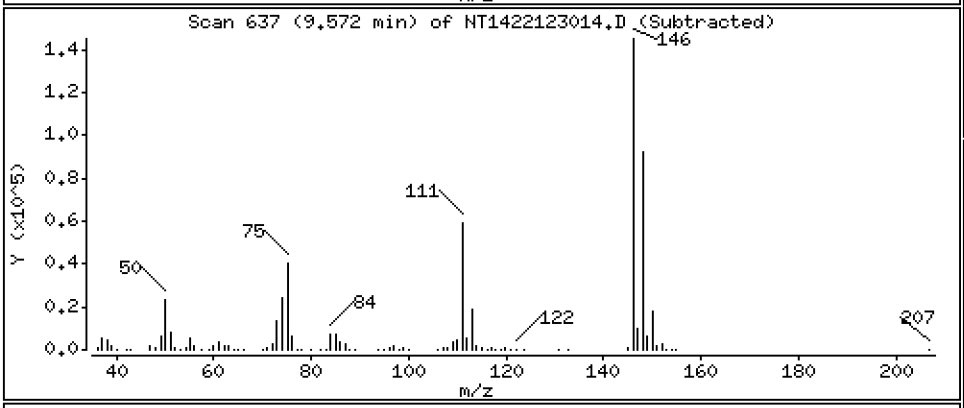
Column phase: ZB-5msi

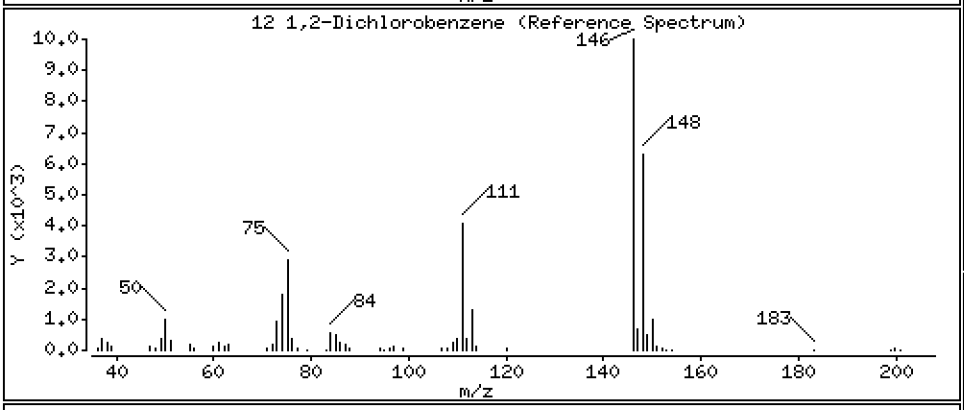
Column diameter: 0.25

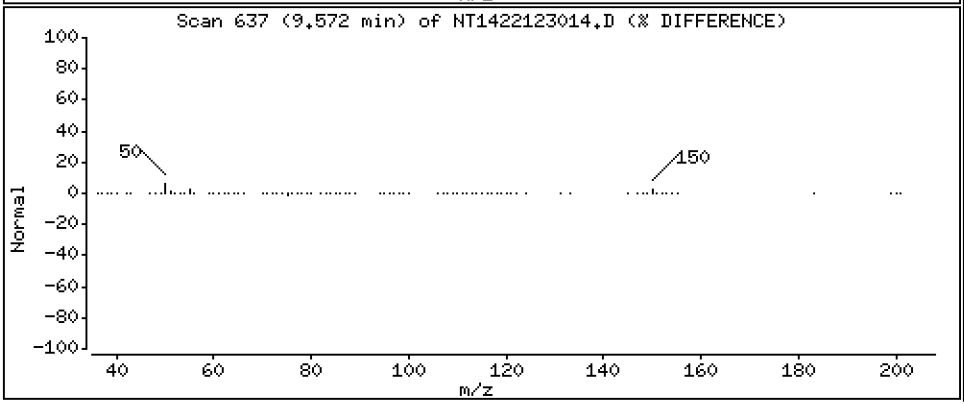
12 1,2-Dichlorobenzene

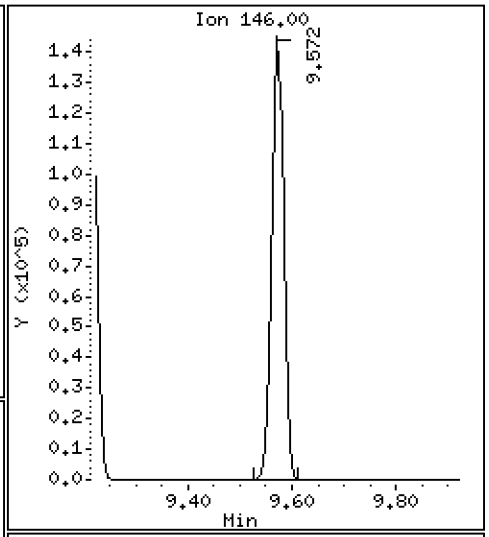
Concentration: 4.623 ug/mL

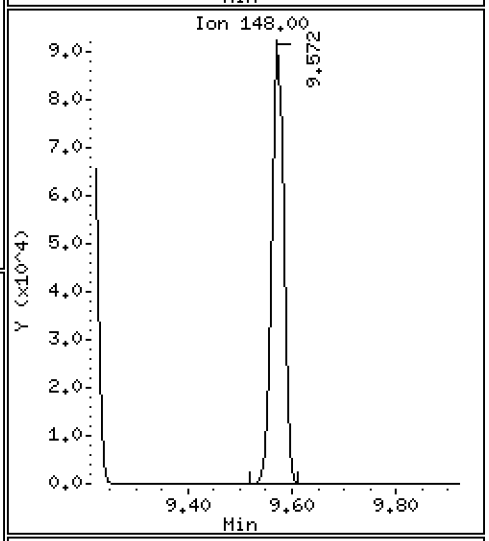


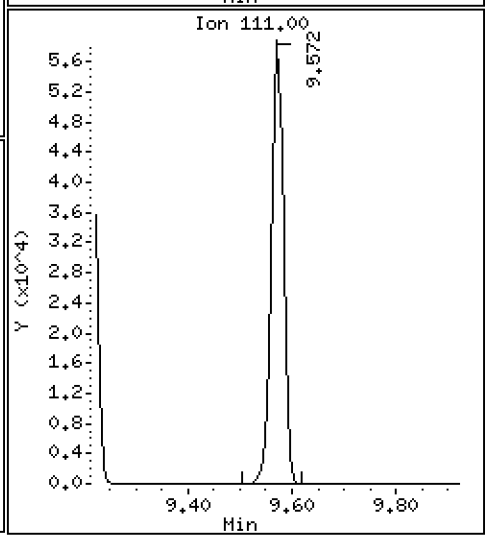












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

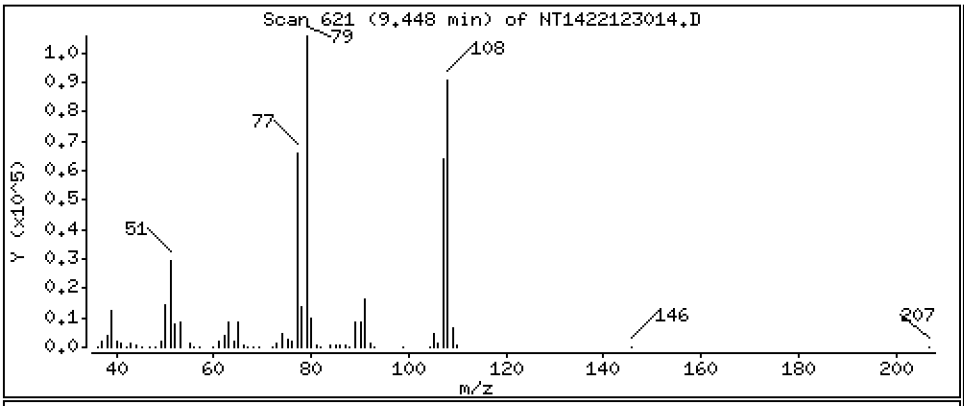
Operator: VTS

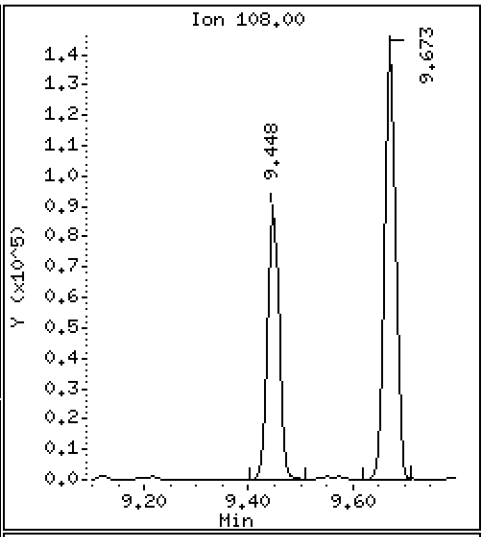
Column phase: ZB-5msi

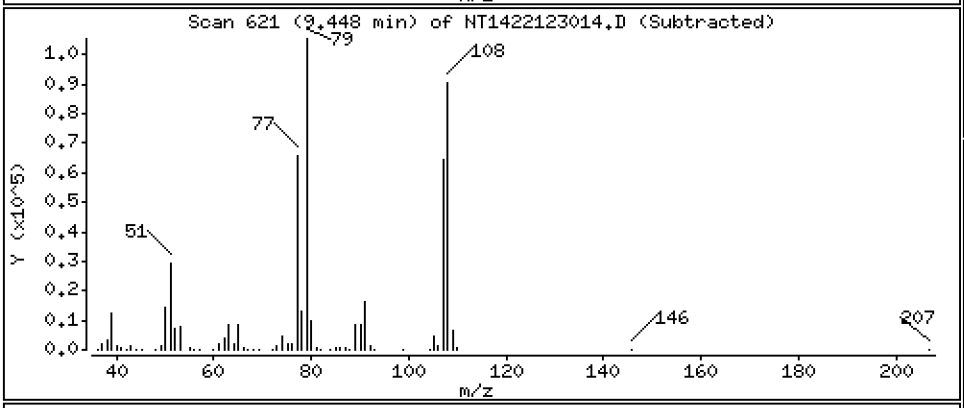
Column diameter: 0.25

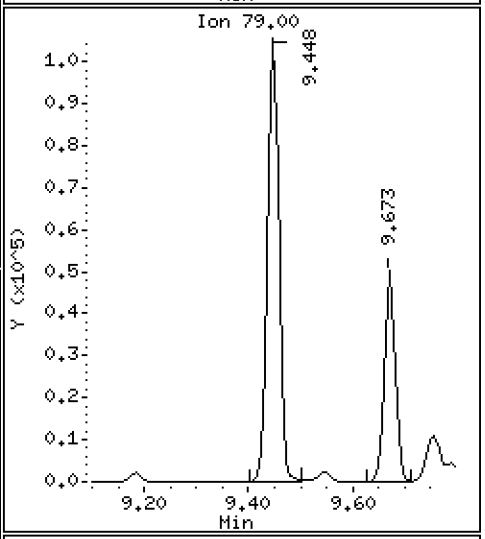
11 Benzyl alcohol

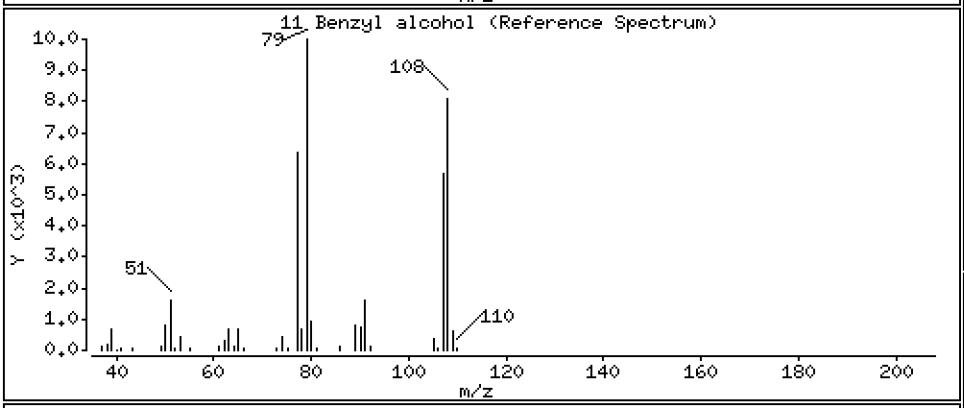
Concentration: 4.960 ug/mL

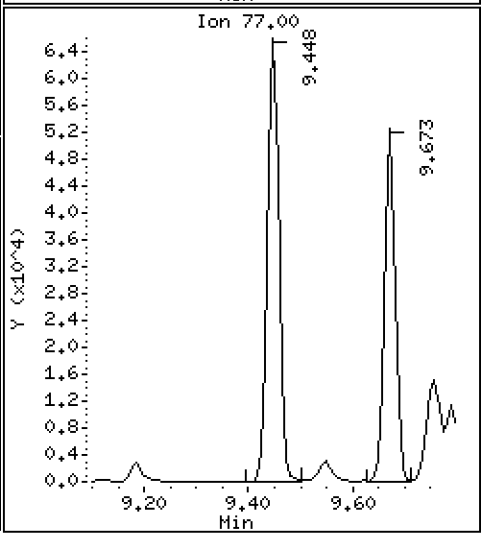


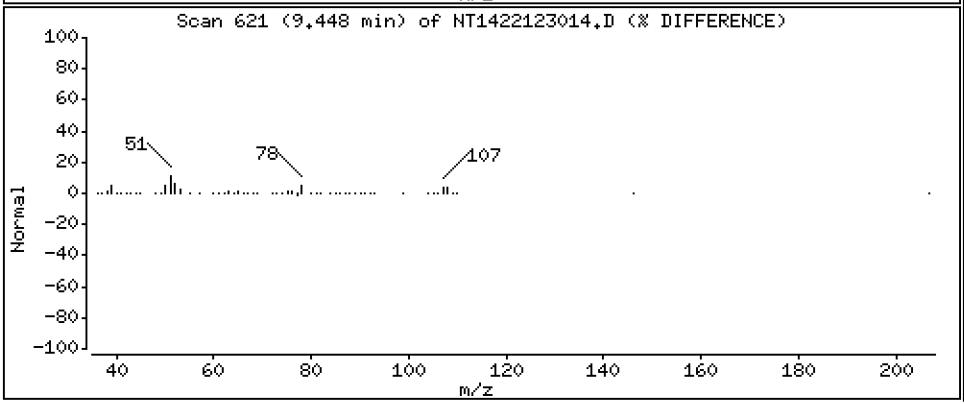












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

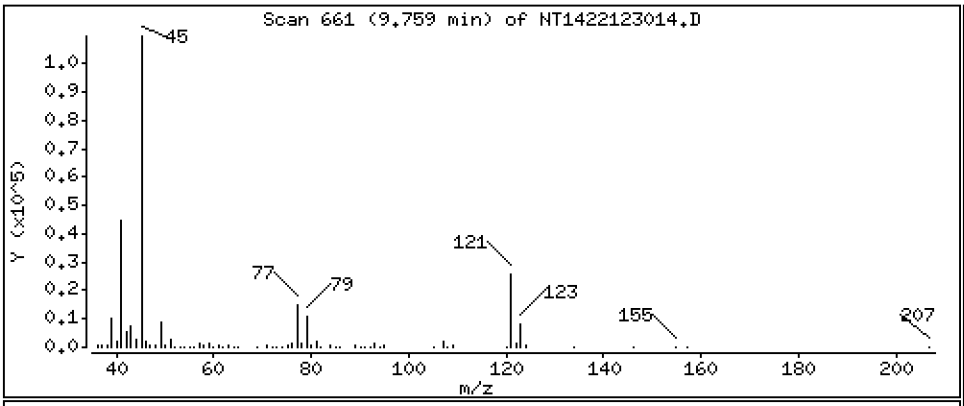
Operator: VTS

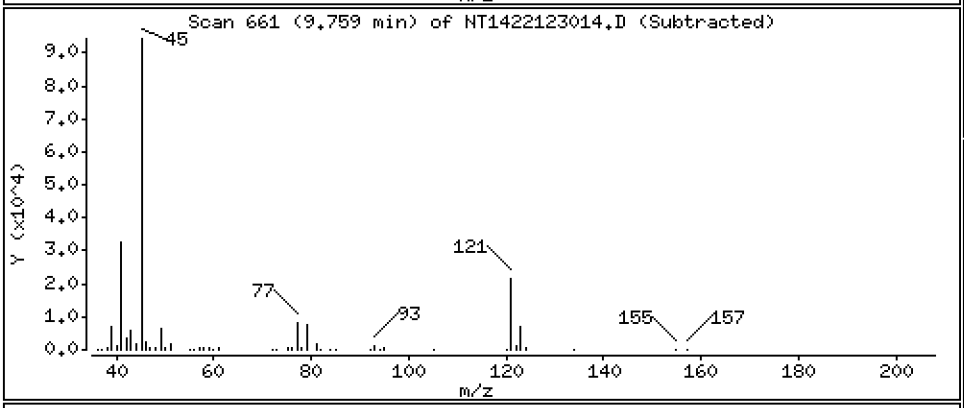
Column phase: ZB-5msi

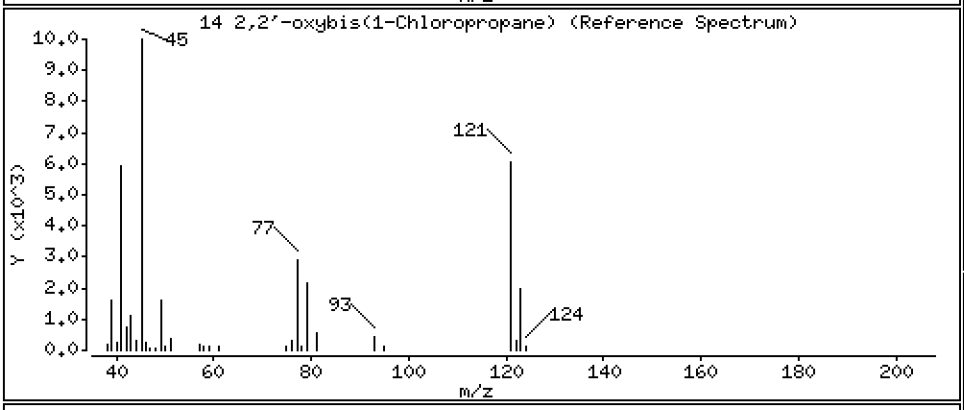
Column diameter: 0.25

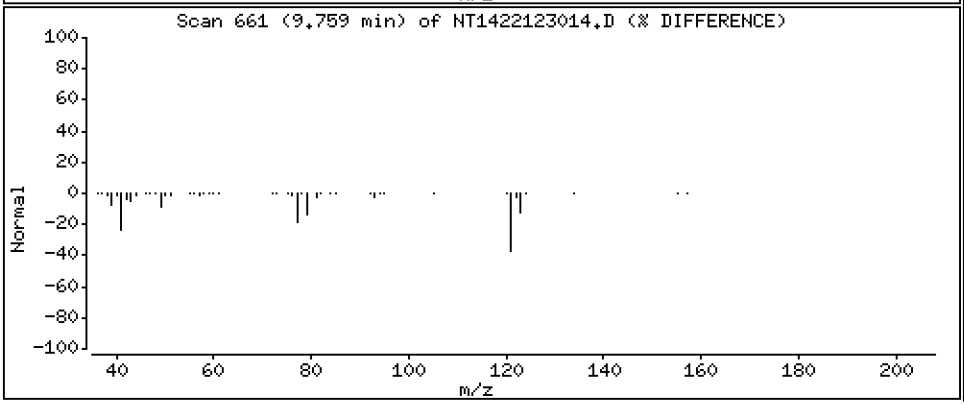
14 2,2'-oxybis(1-Chloropropane)

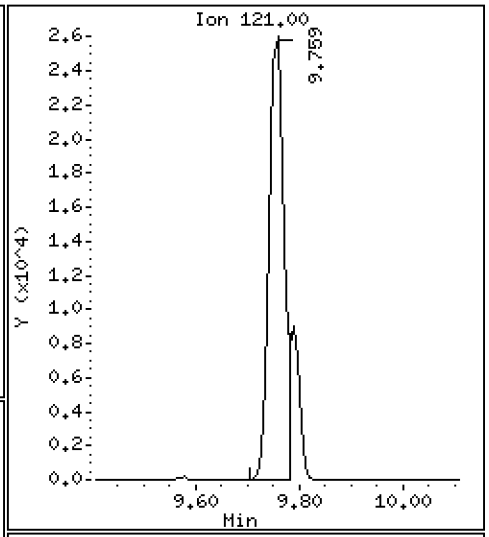
Concentration: 3.732 ug/mL

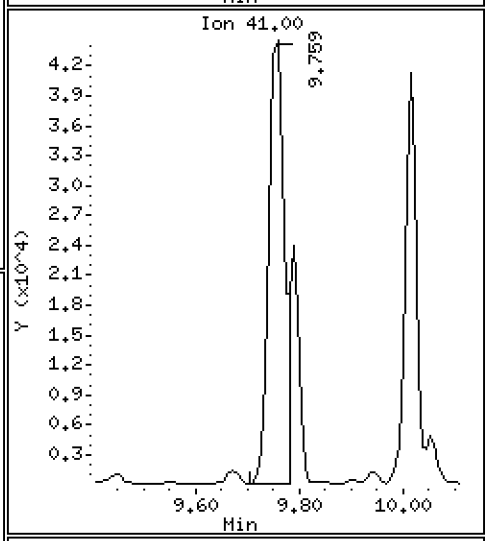


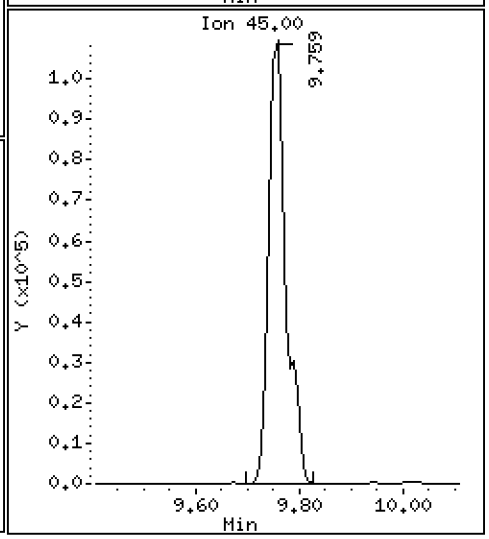












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

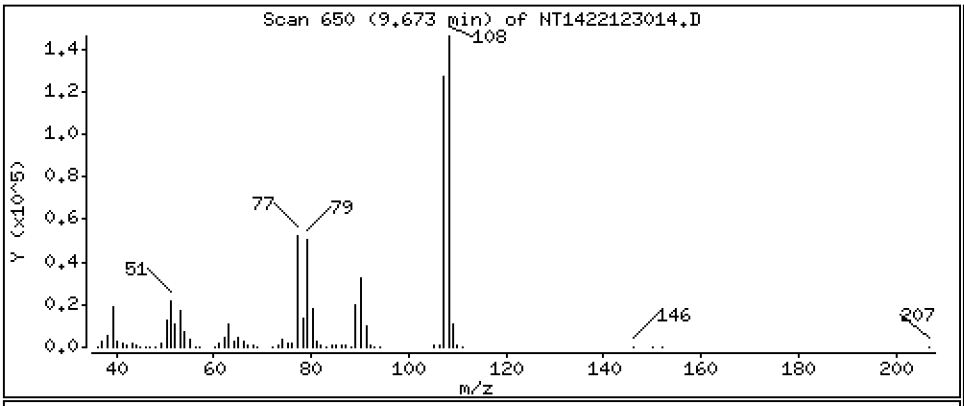
Operator: VTS

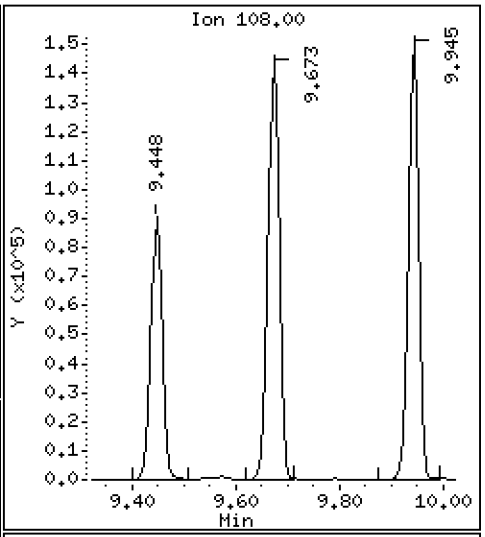
Column phase: ZB-5msi

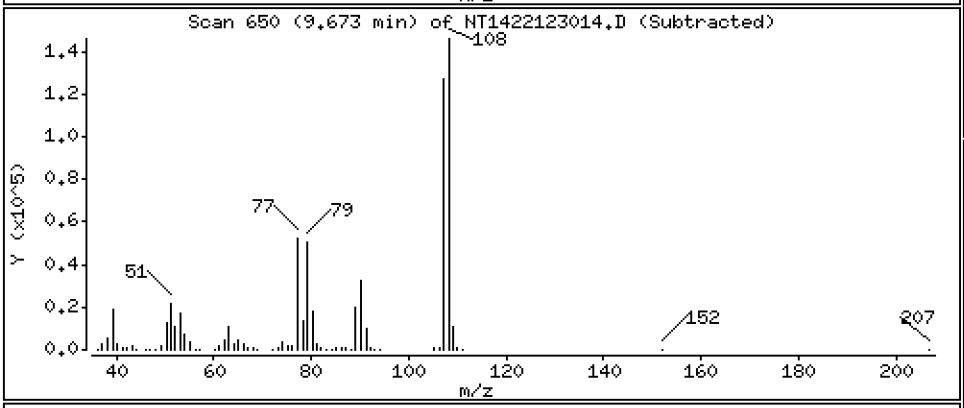
Column diameter: 0.25

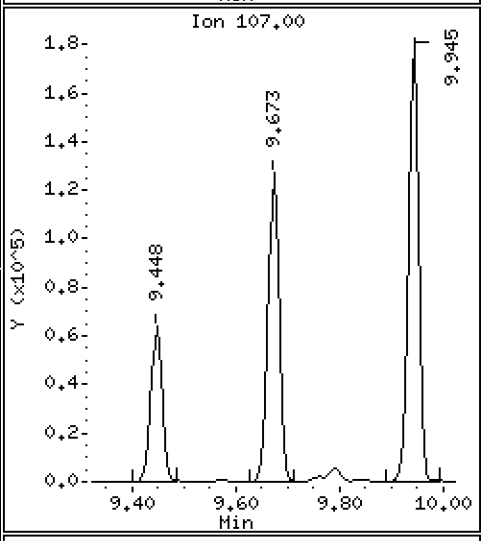
13 2-Methylphenol

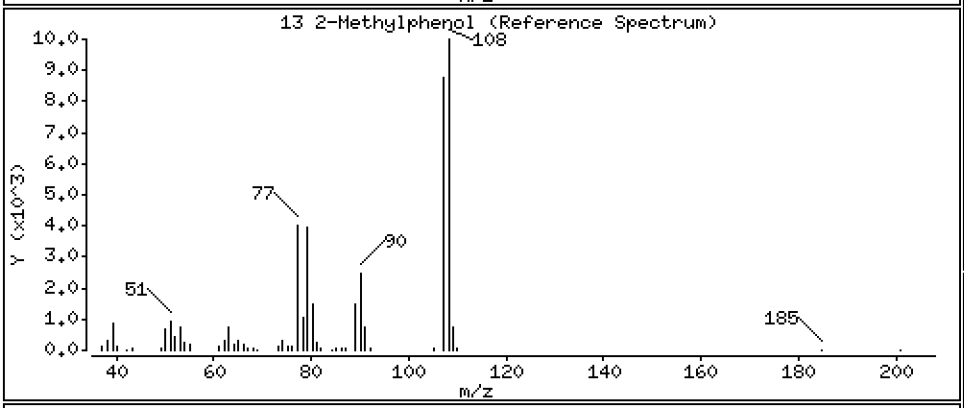
Concentration: 4.858 ug/mL

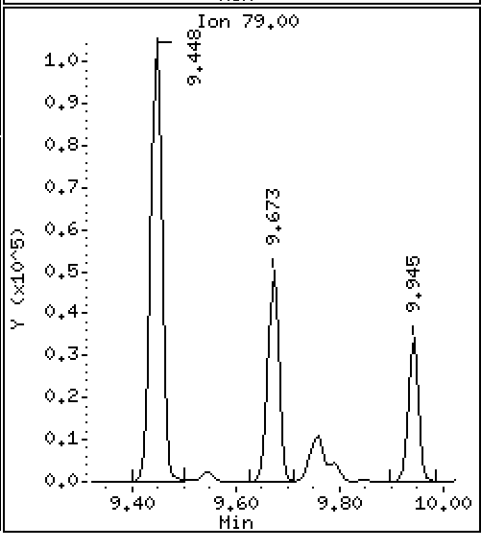


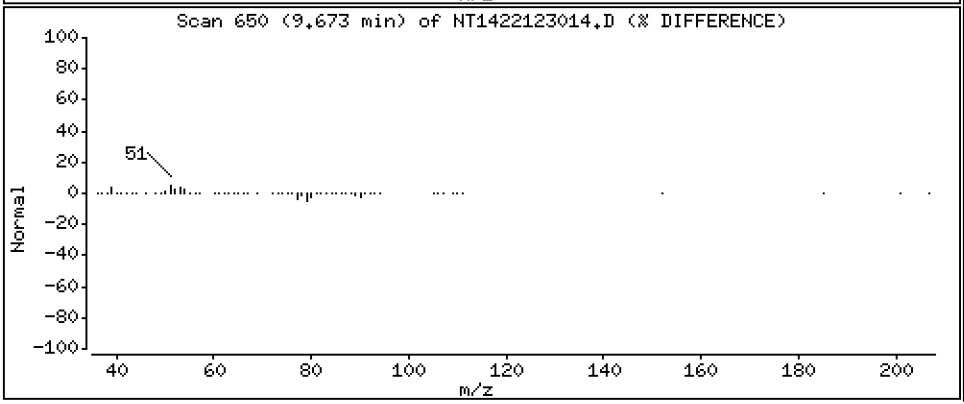












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

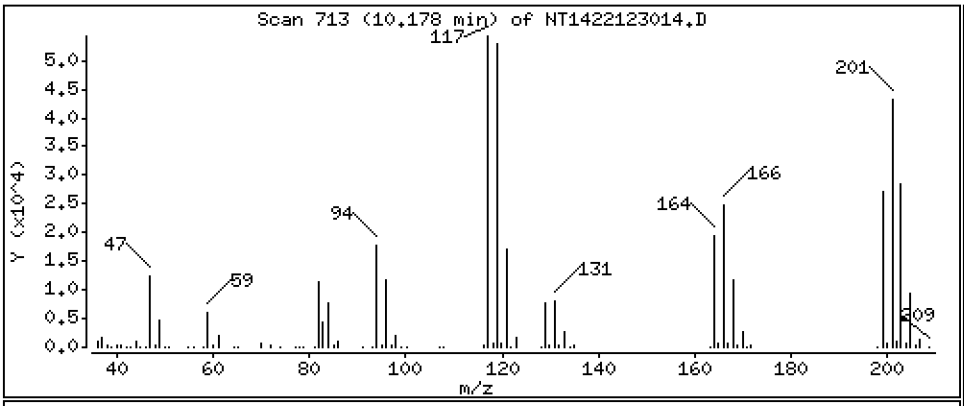
Operator: VTS

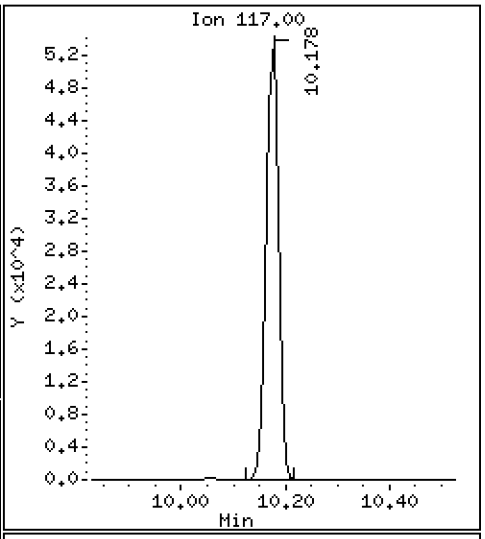
Column phase: ZB-5msi

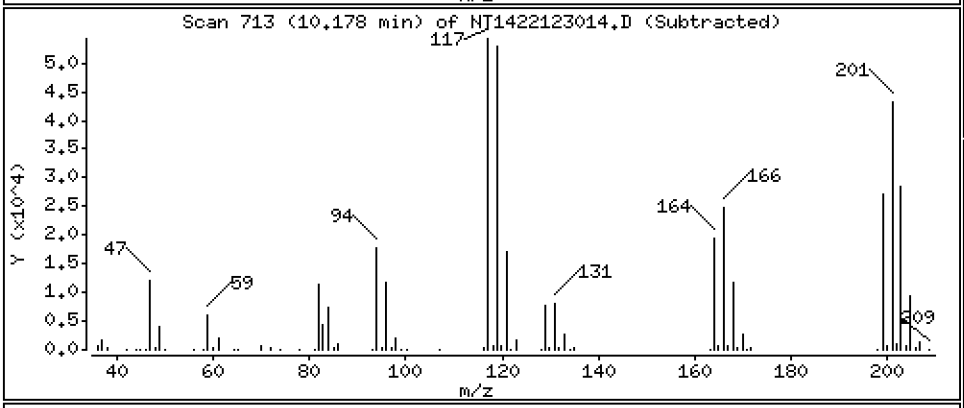
Column diameter: 0.25

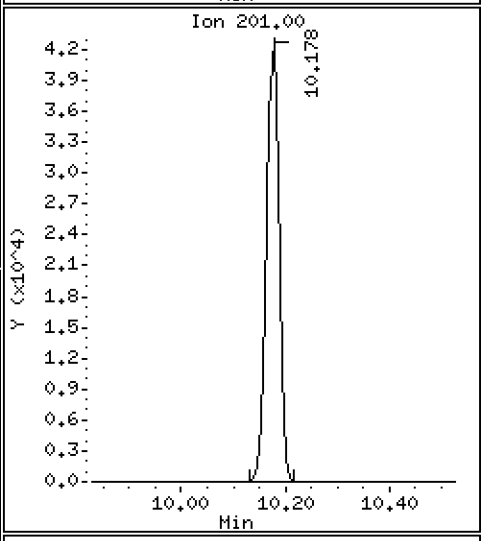
17 Hexachloroethane

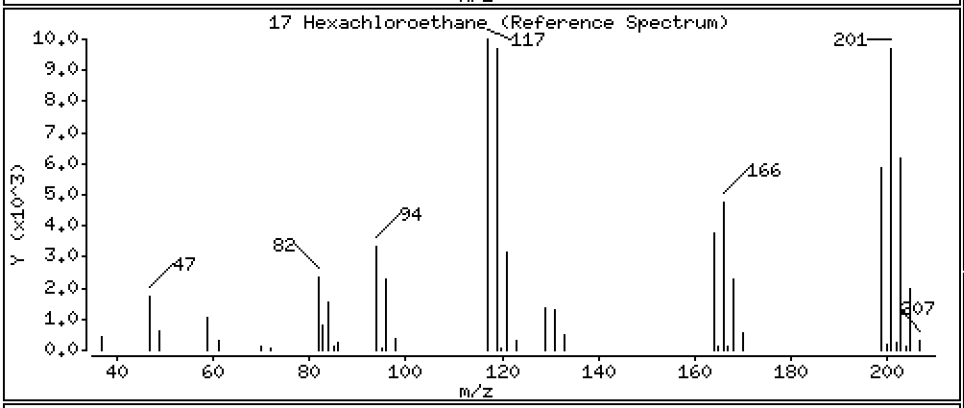
Concentration: 4.777 ug/mL

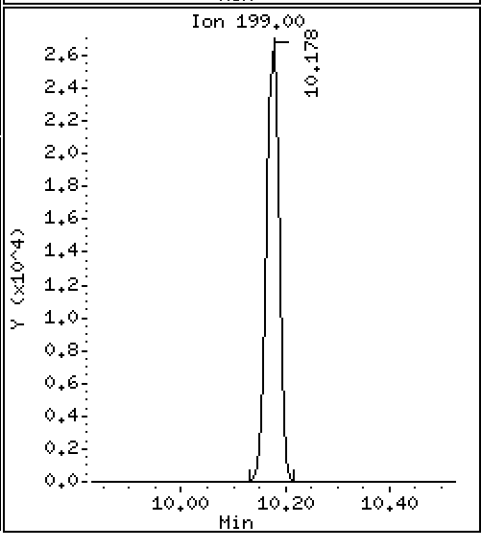


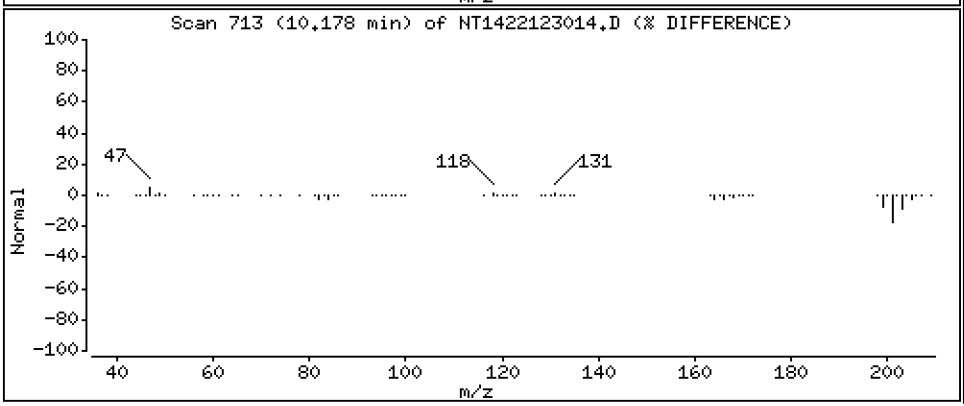












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

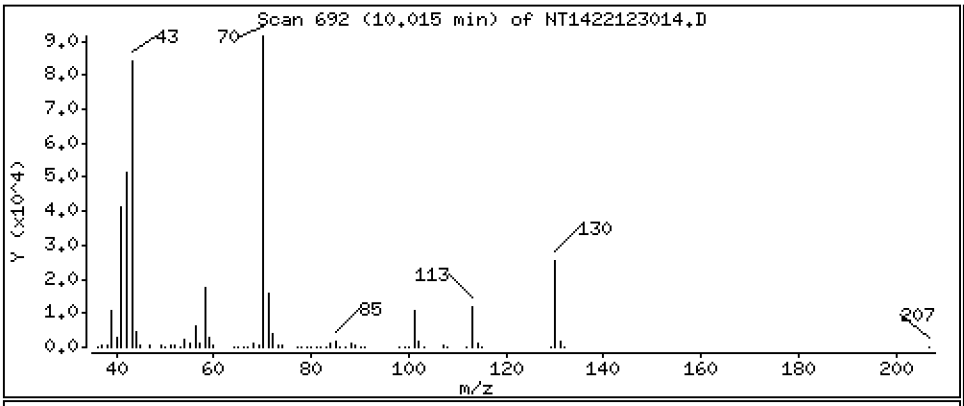
Operator: VTS

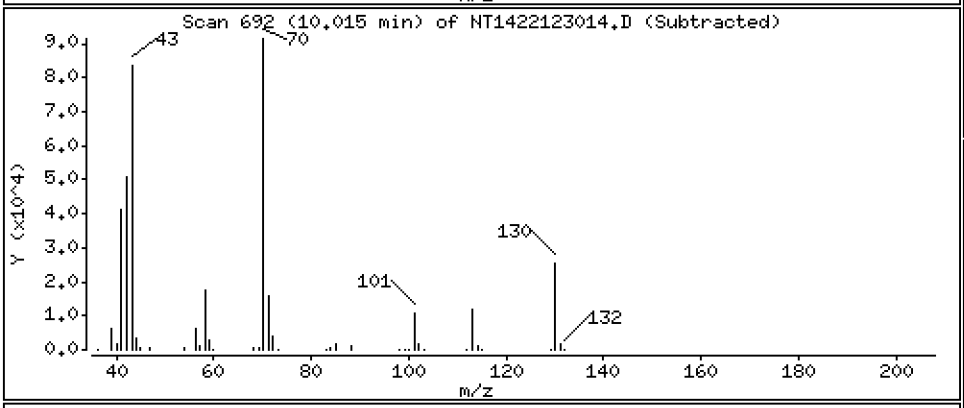
Column phase: ZB-5msi

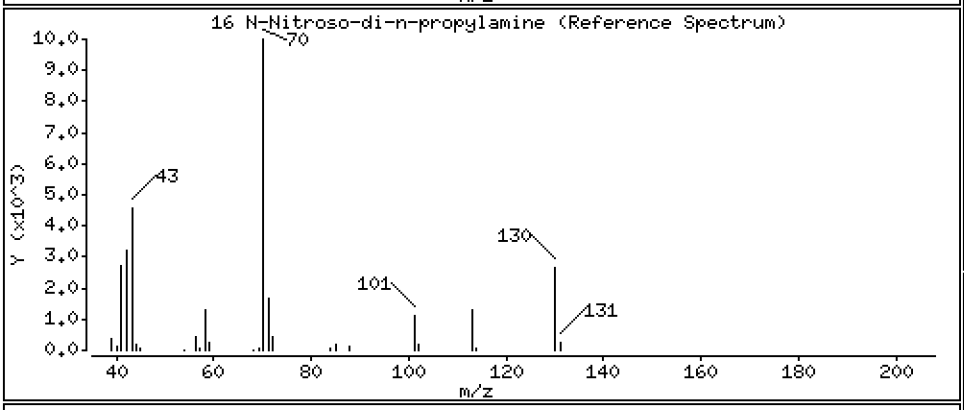
Column diameter: 0.25

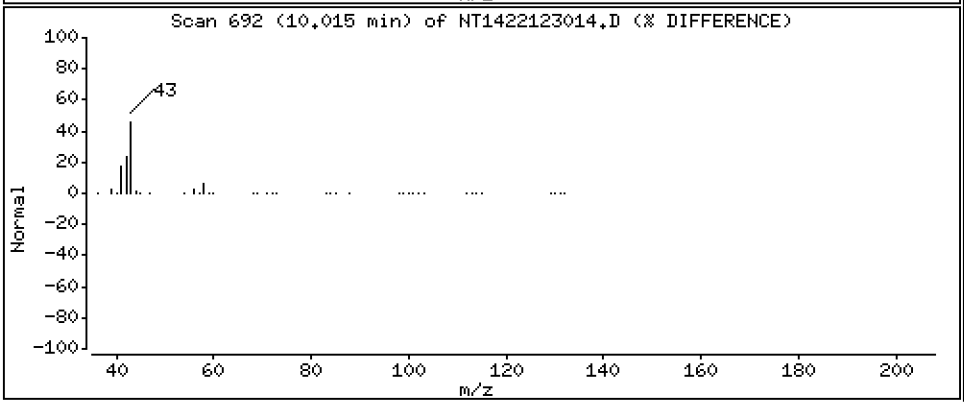
16 N-Nitroso-di-n-propylamine

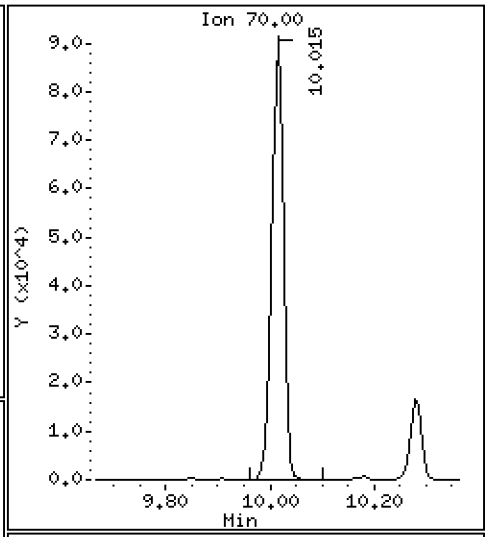
Concentration: 5.157 ug/mL

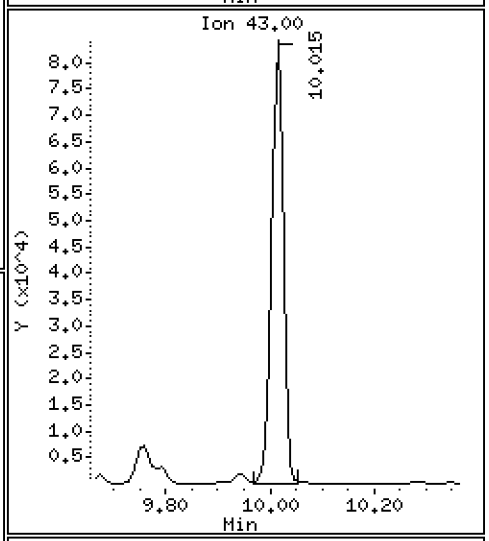


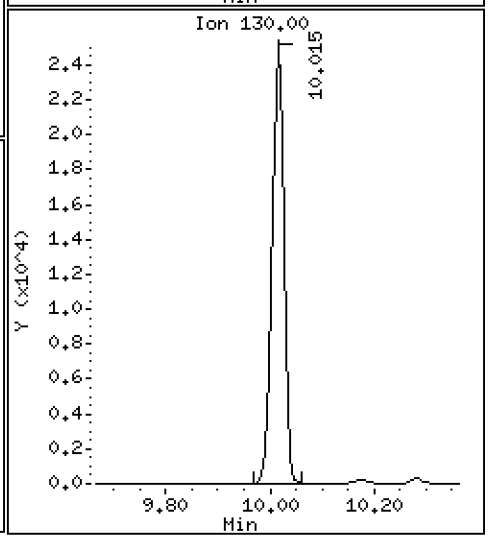












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

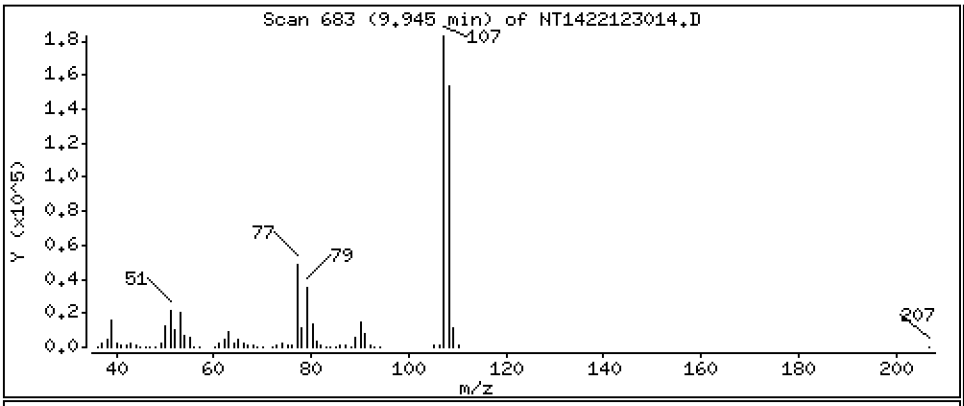
Operator: VTS

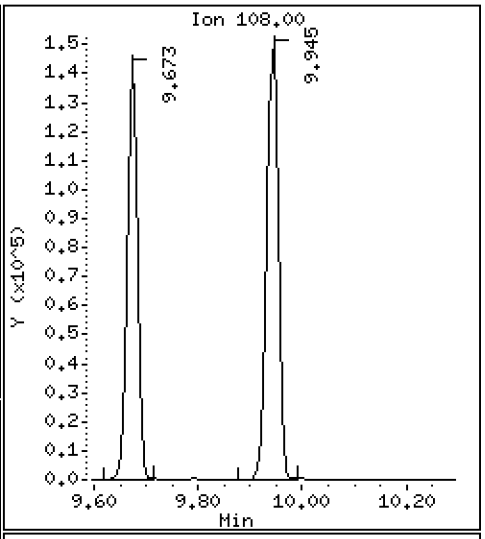
Column phase: ZB-5msi

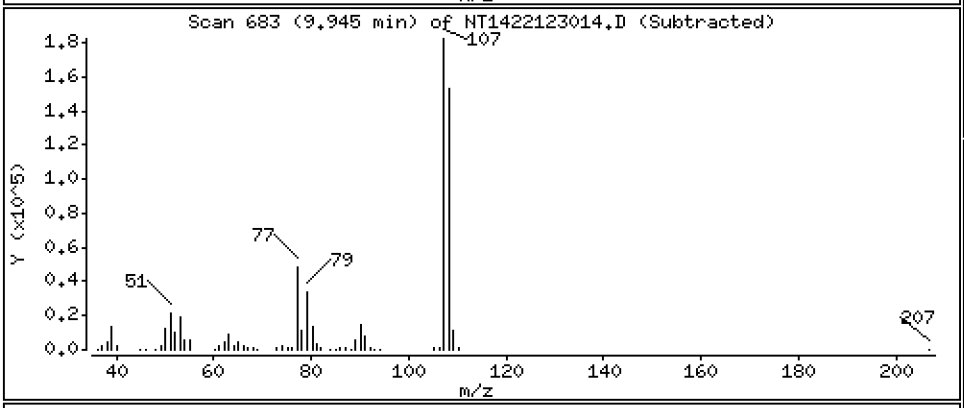
Column diameter: 0.25

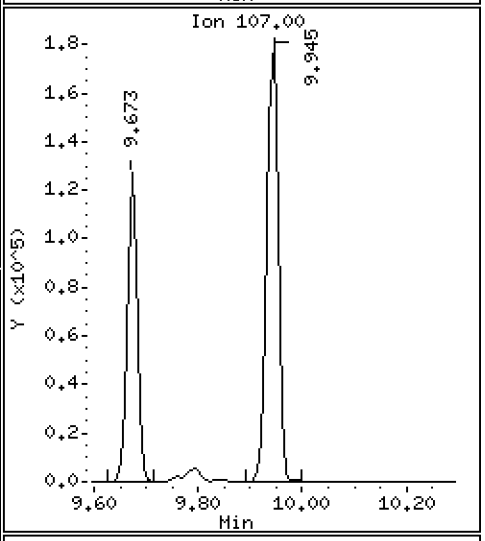
15 4-Methylphenol

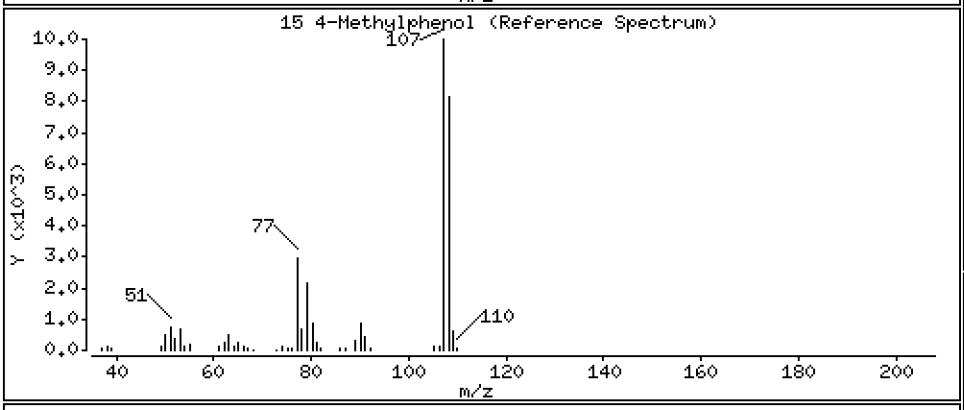
Concentration: 4.896 ug/mL

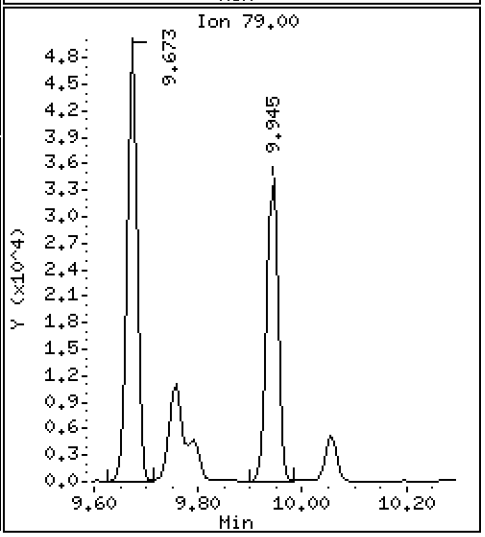


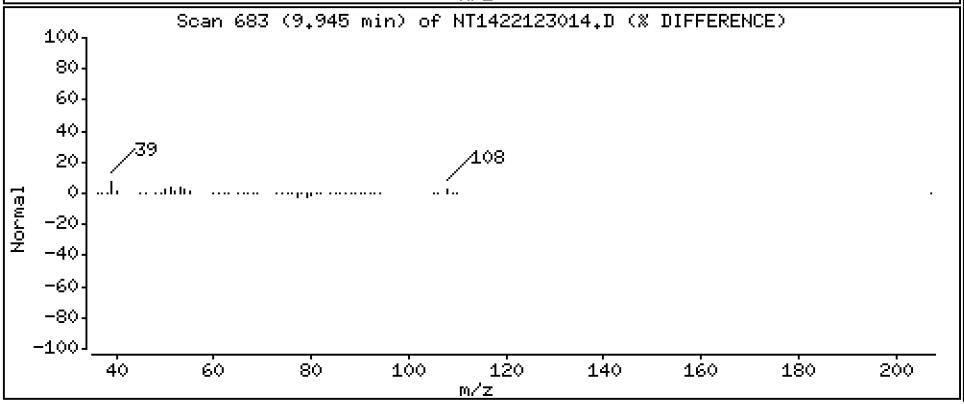












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

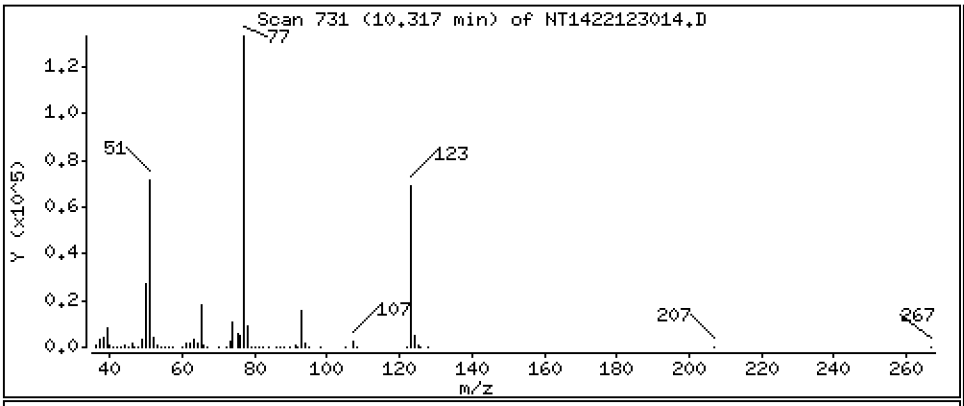
Operator: VTS

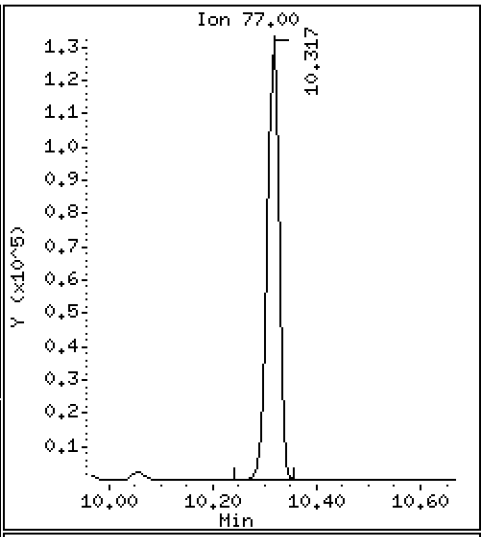
Column phase: ZB-5msi

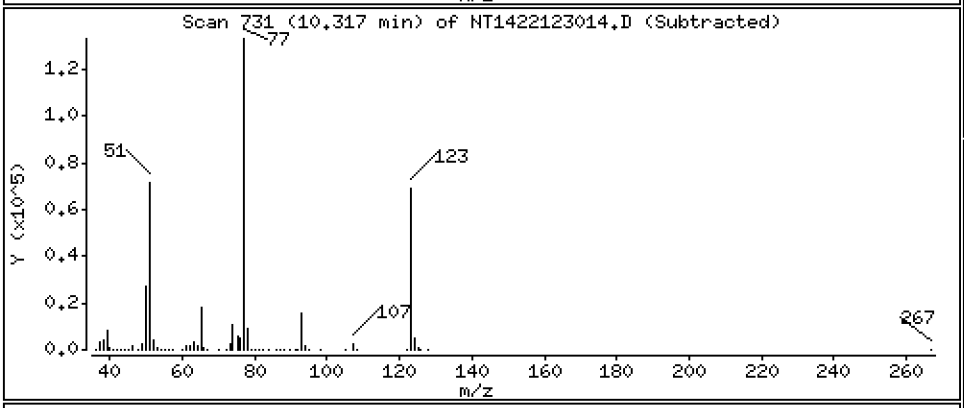
Column diameter: 0.25

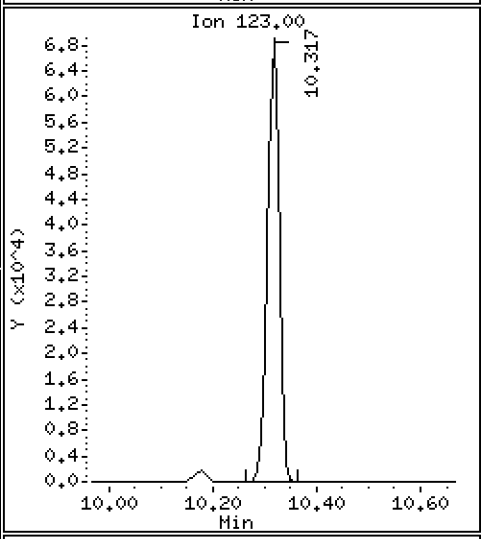
19 Nitrobenzene

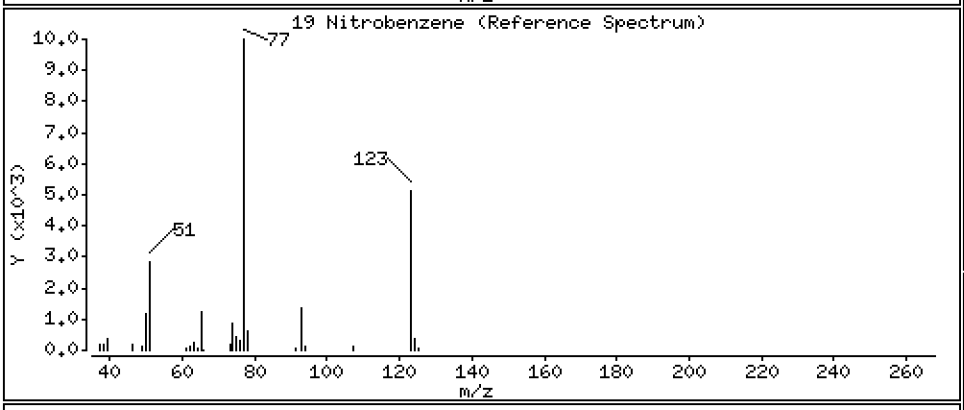
Concentration: 4.844 ug/mL

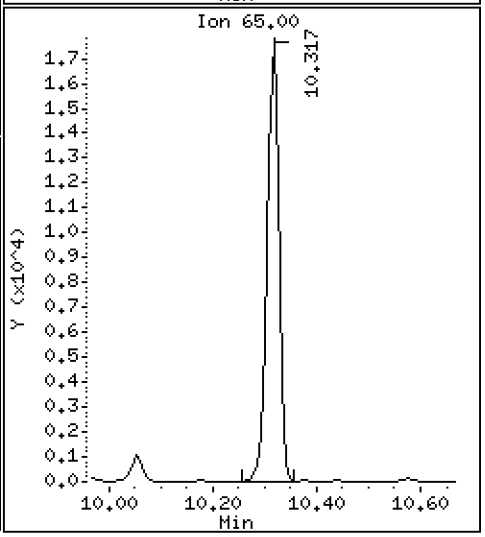


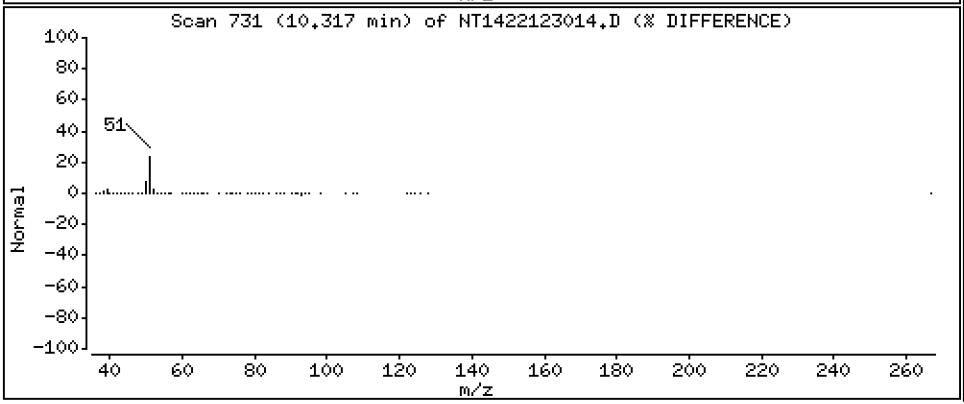












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

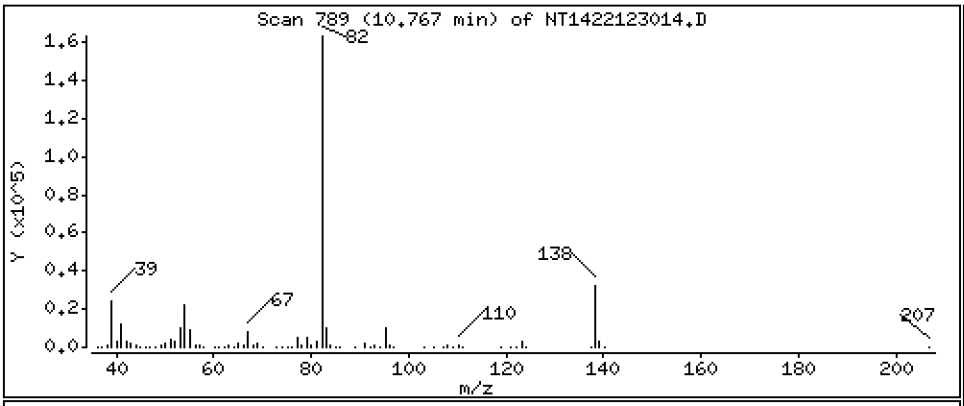
Operator: VTS

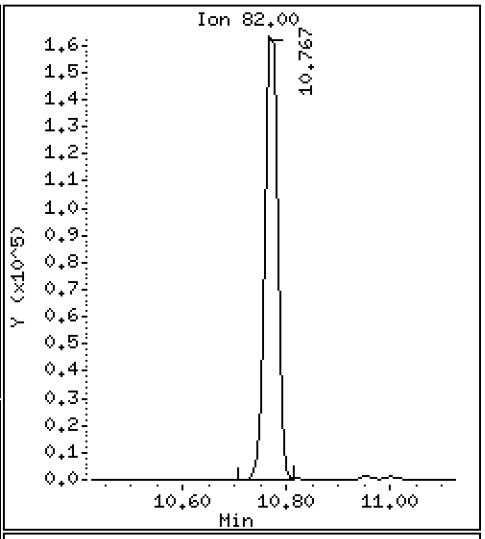
Column phase: ZB-5msi

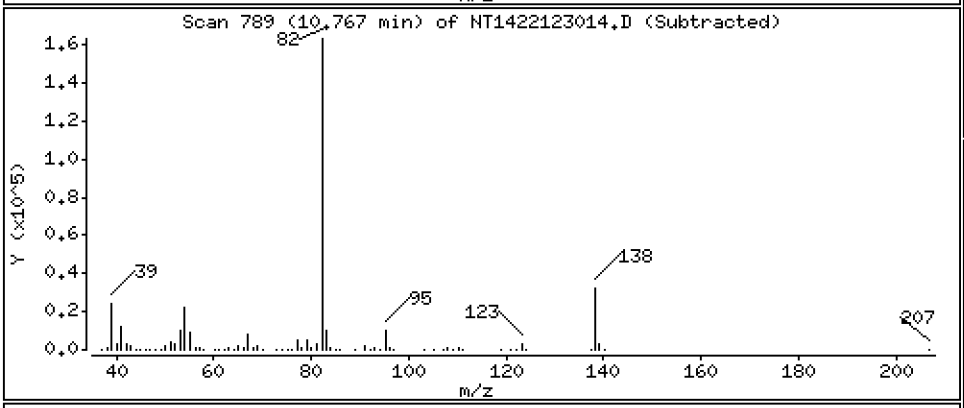
Column diameter: 0.25

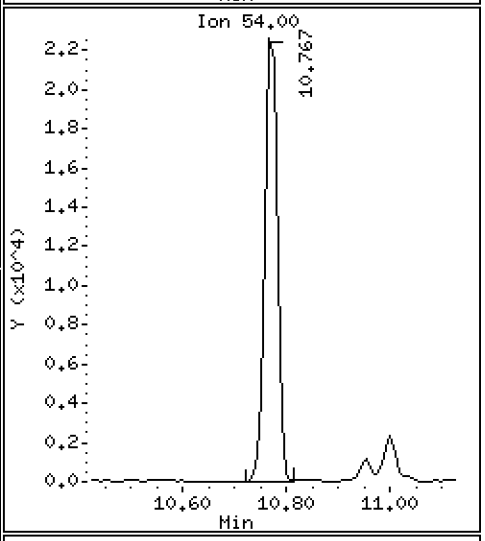
20 Isophorone

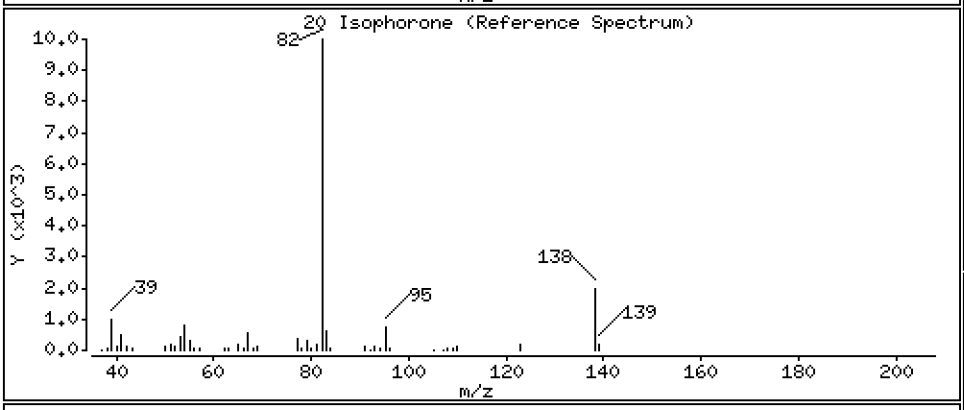
Concentration: 5.100 ug/mL

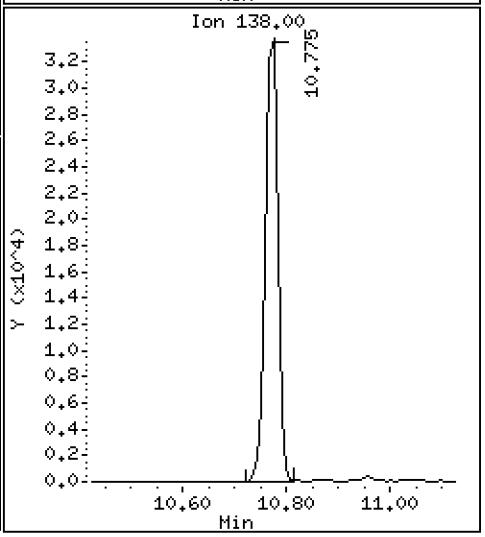


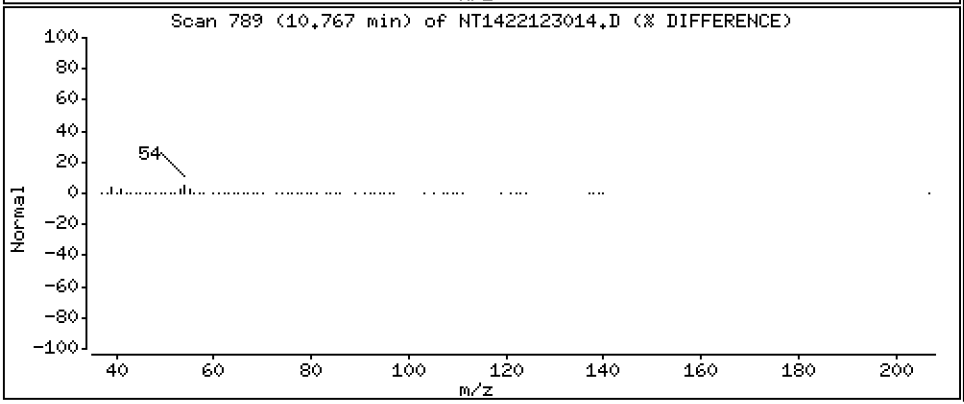












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

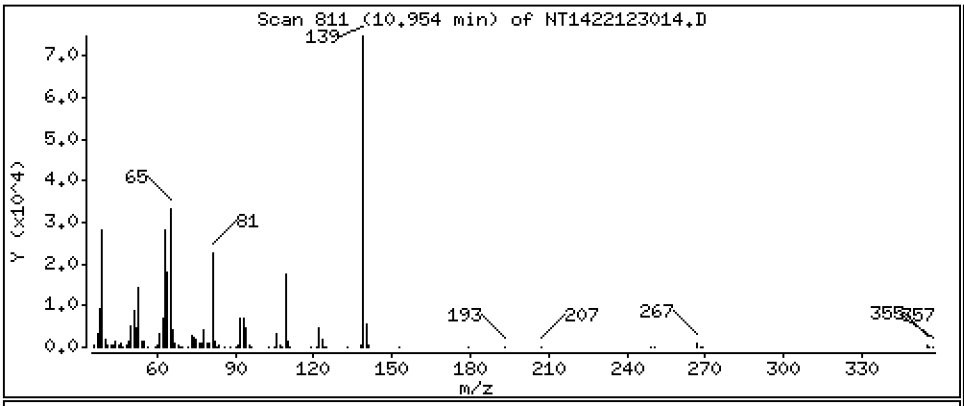
Operator: VTS

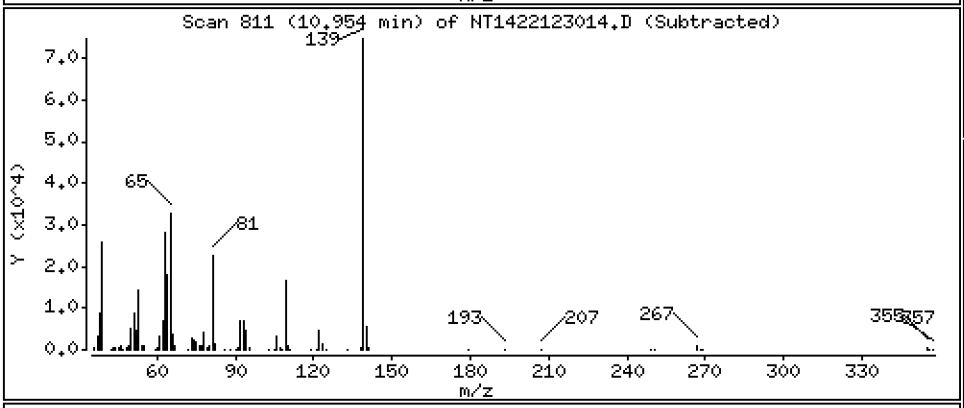
Column phase: ZB-5msi

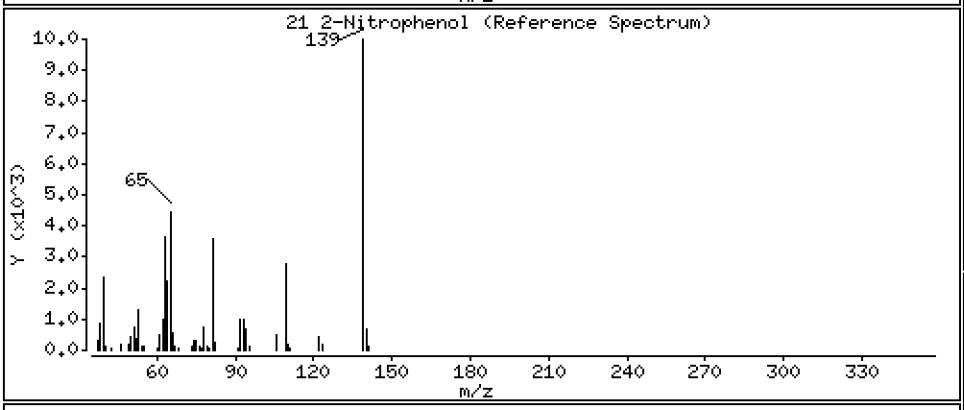
Column diameter: 0.25

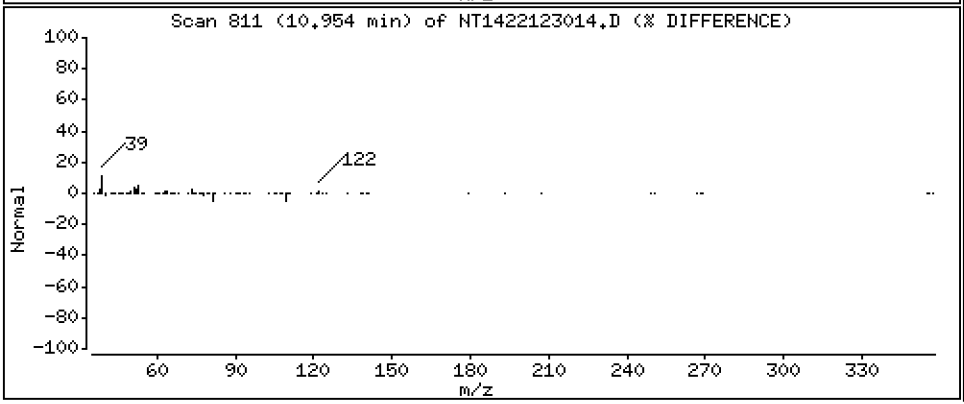
21 2-Nitrophenol

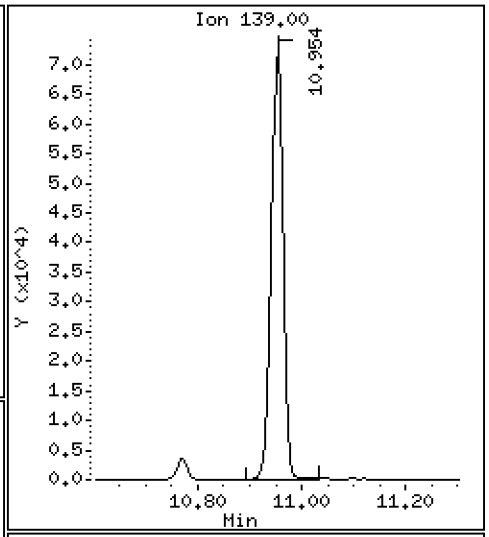
Concentration: 4.700 ug/mL

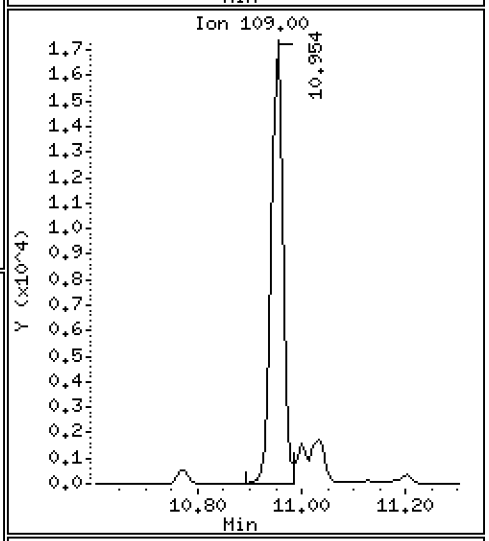


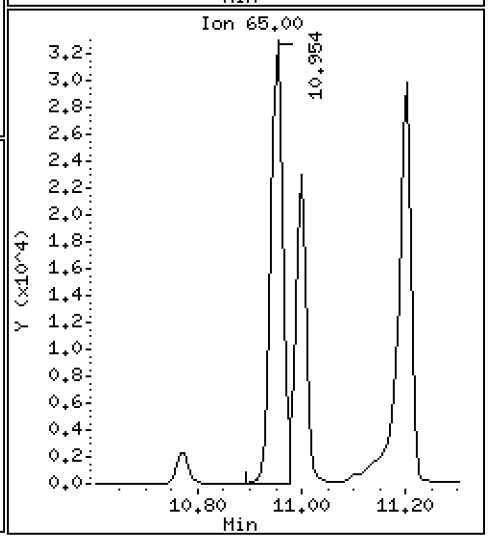












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

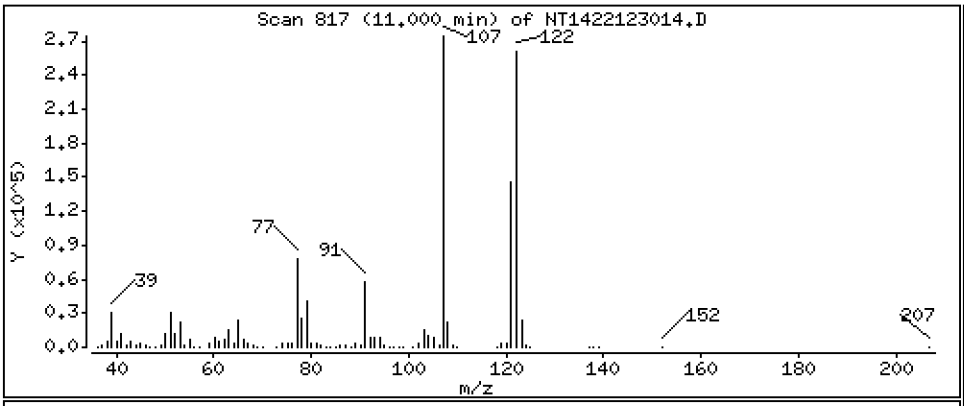
Operator: VTS

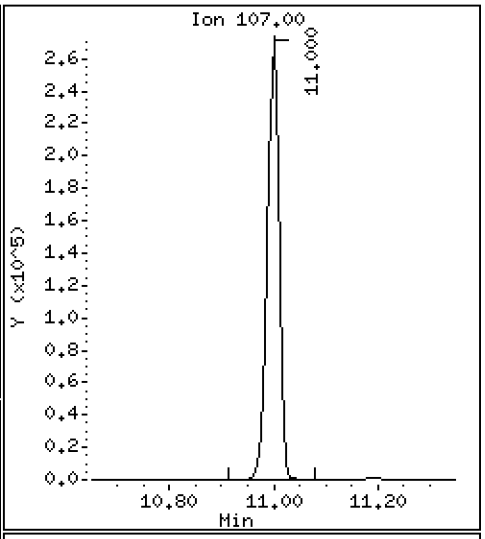
Column phase: ZB-5msi

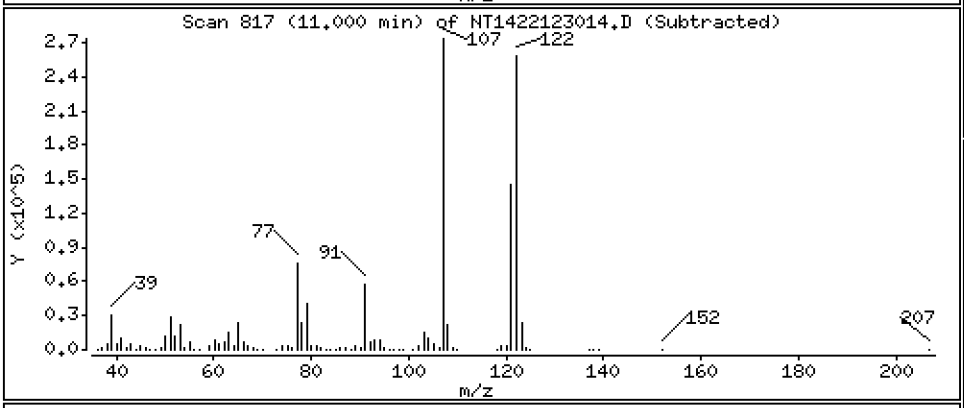
Column diameter: 0.25

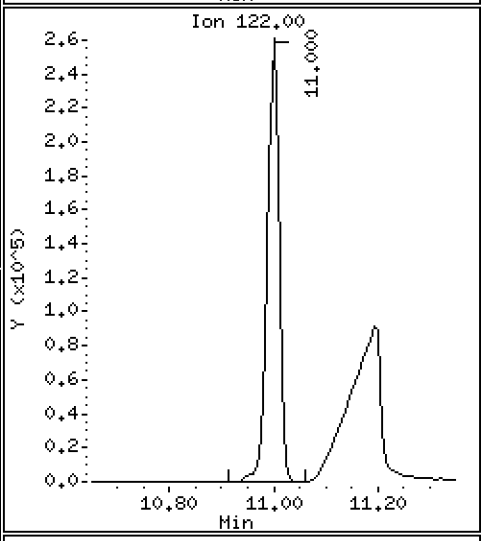
22 2,4-Dimethylphenol

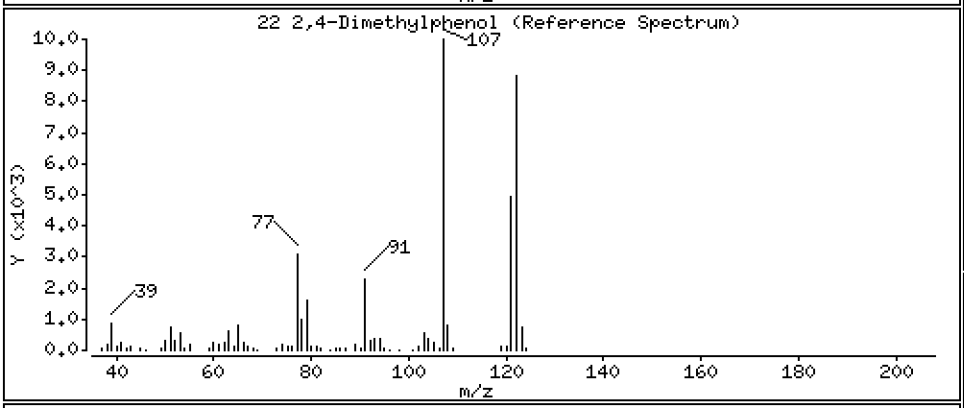
Concentration: 9.464 ug/mL

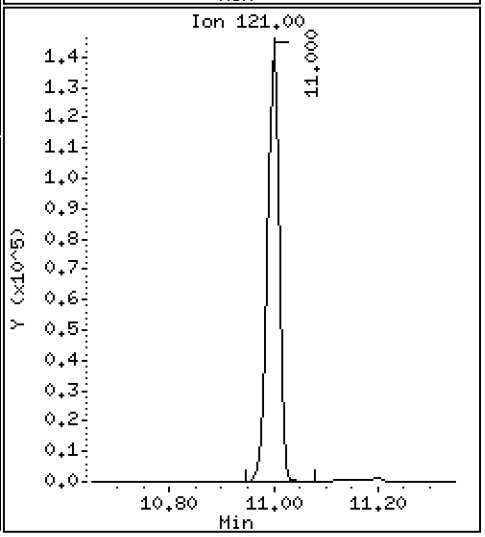


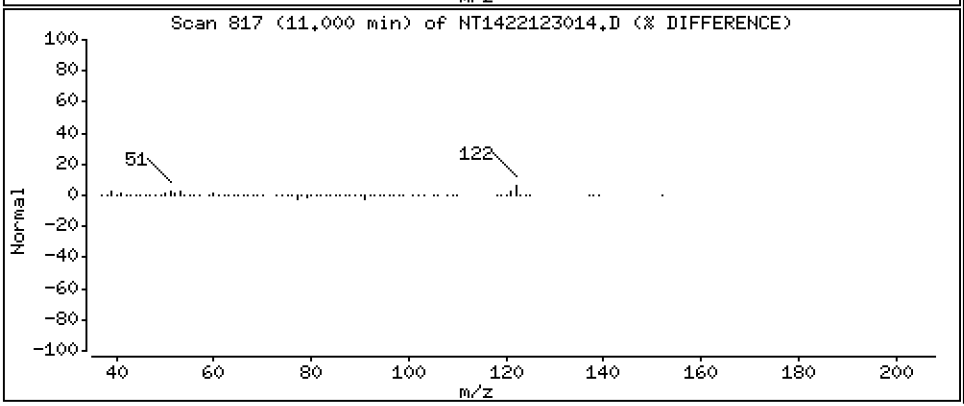












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

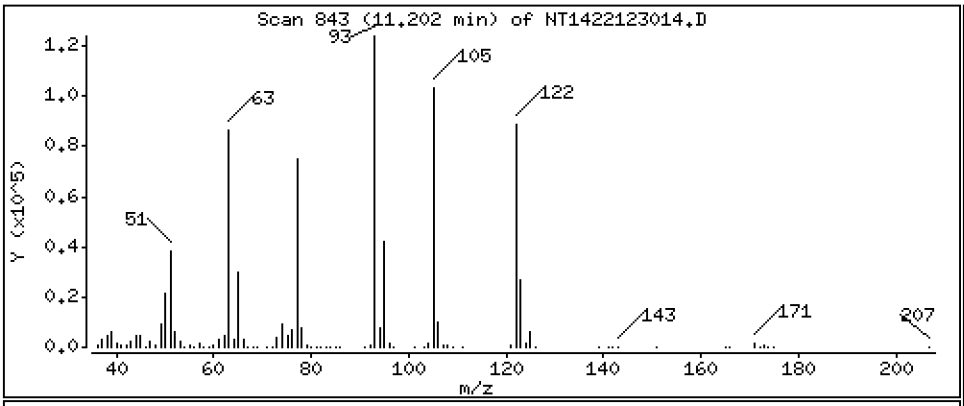
Operator: VTS

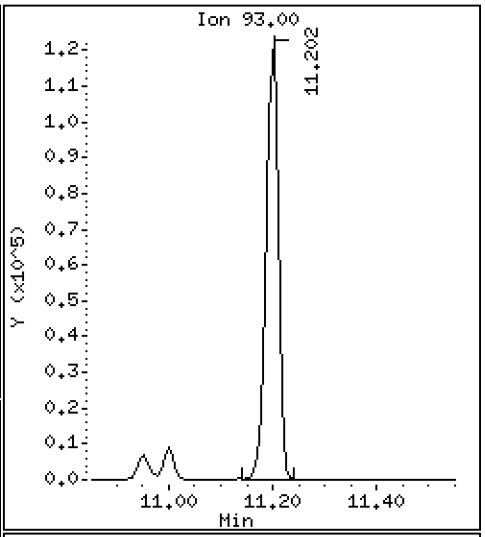
Column phase: ZB-5msi

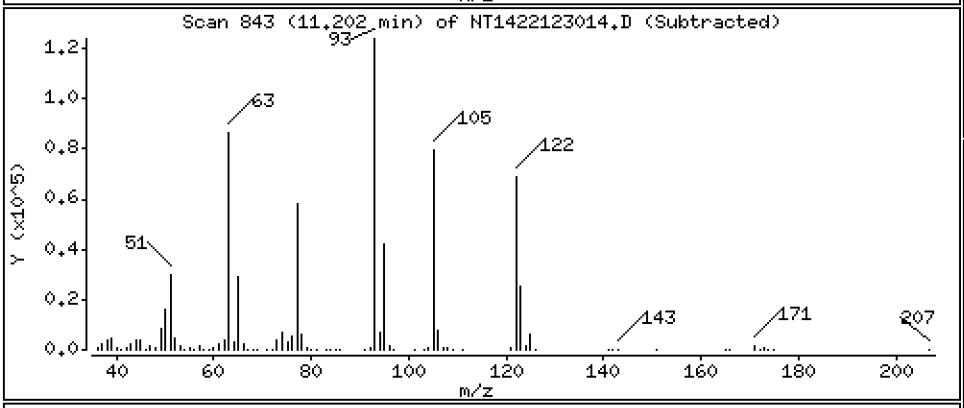
Column diameter: 0.25

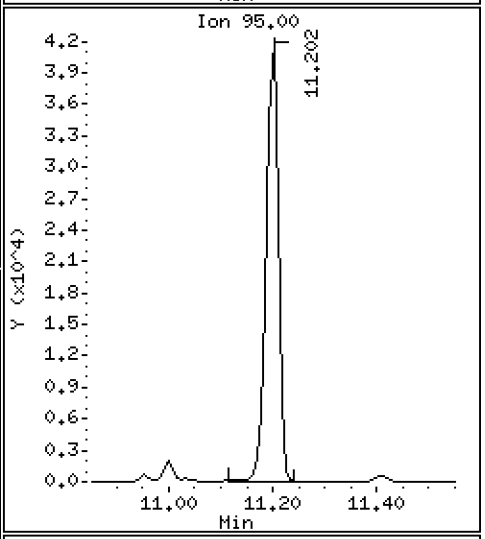
23 Bis(2-Chloroethoxy)methane

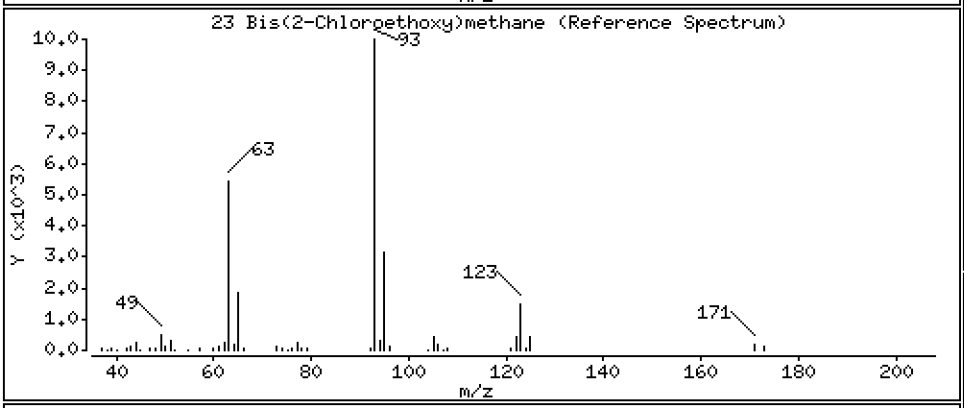
Concentration: 4.648 ug/mL

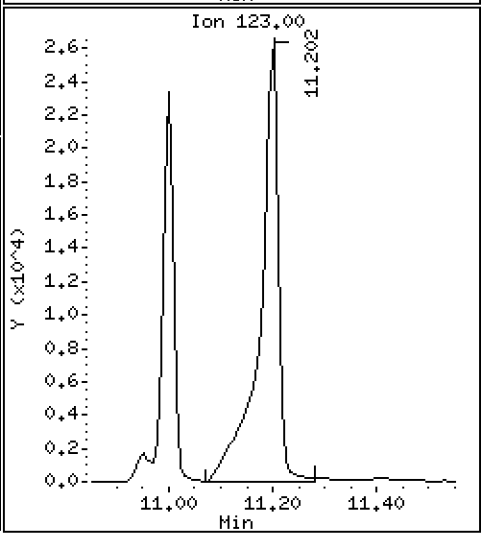


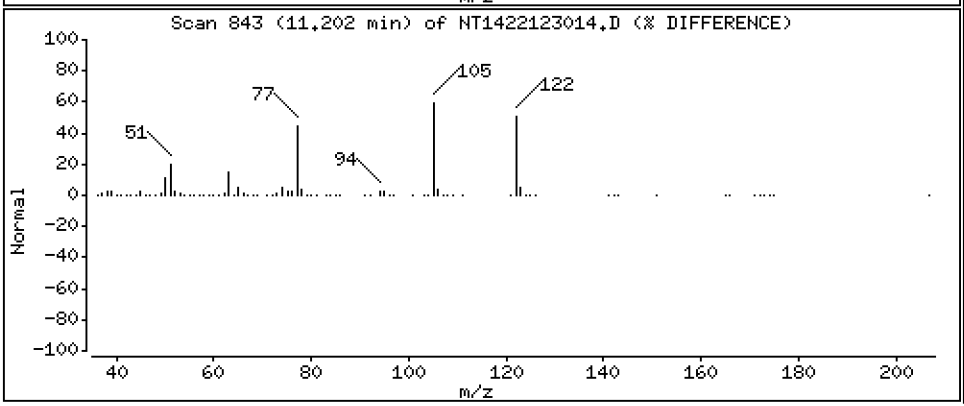












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

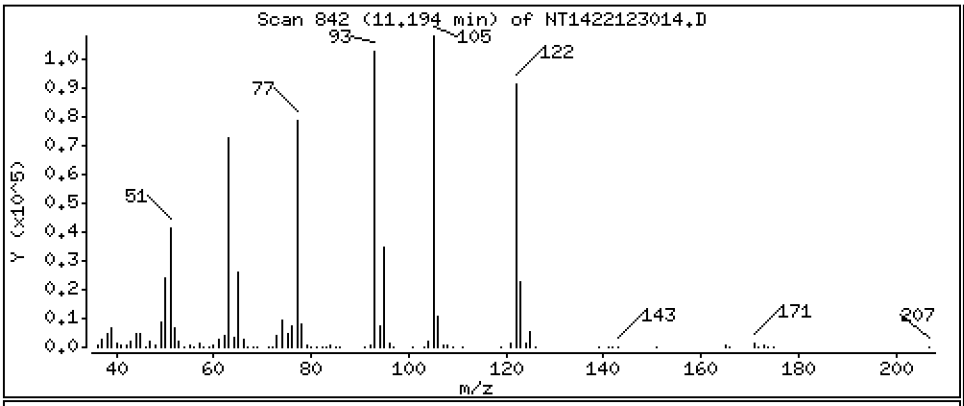
Operator: VTS

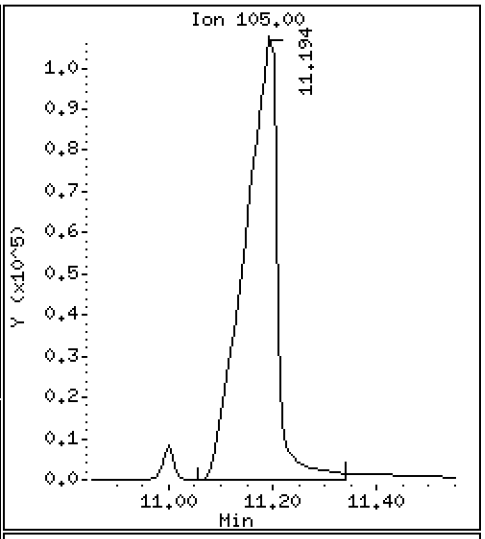
Column phase: ZB-5msi

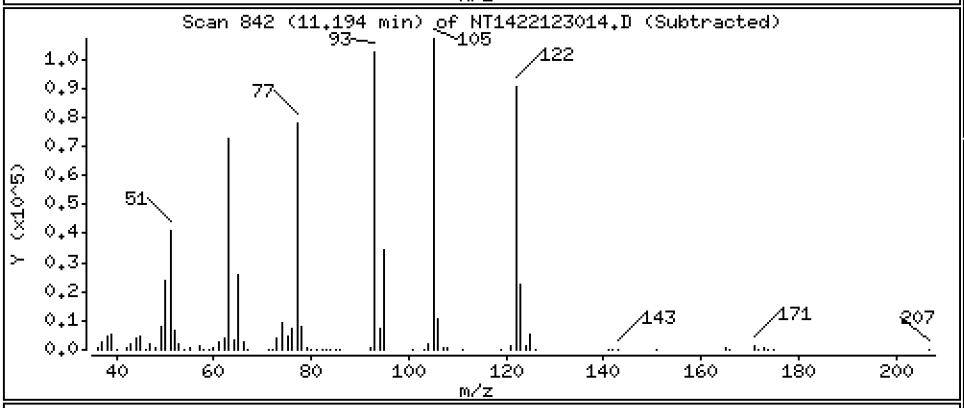
Column diameter: 0.25

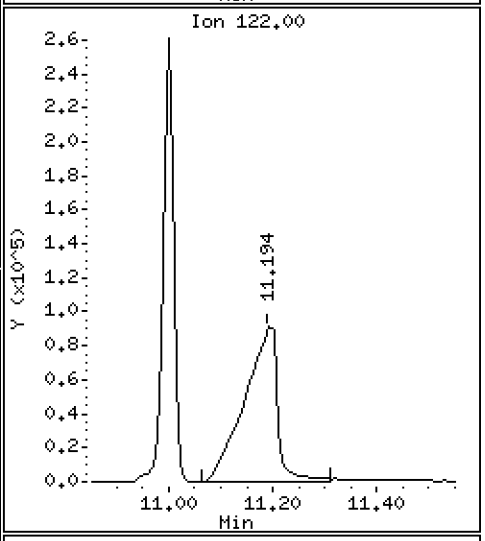
24 Benzoic acid

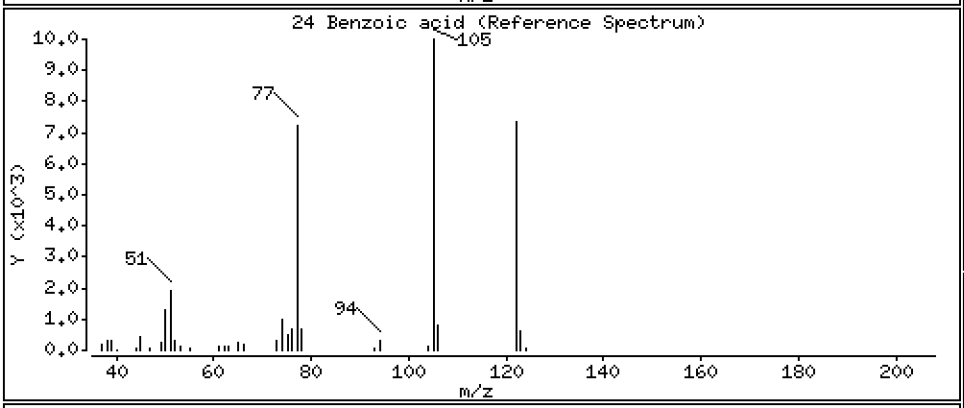
Concentration: 17.39 ug/mL

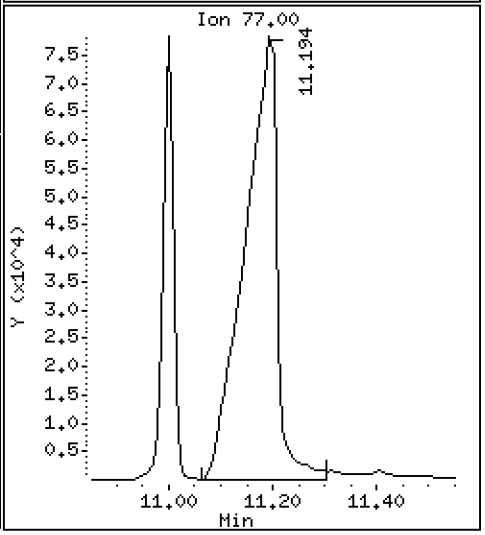


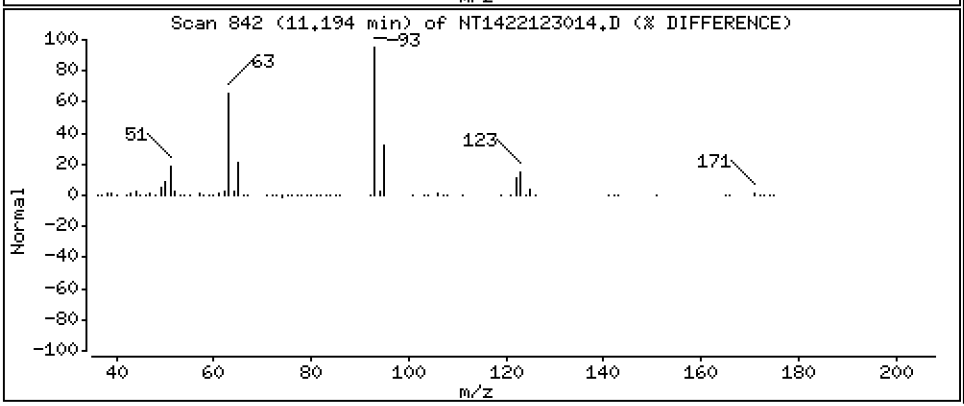












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

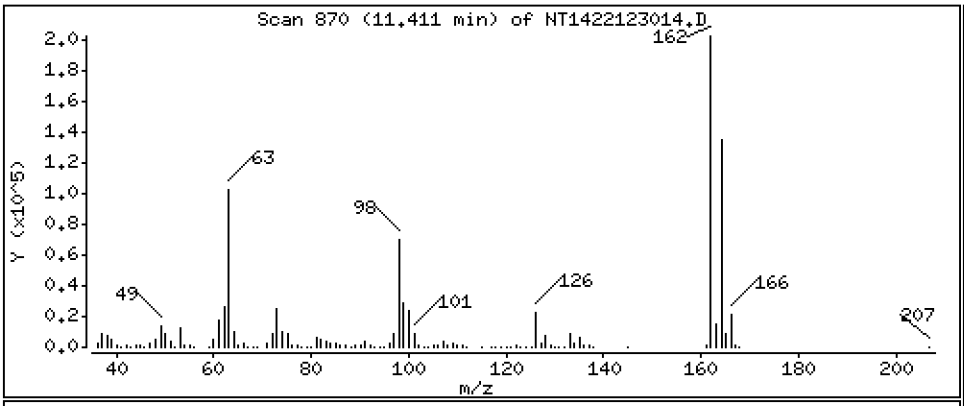
Operator: VTS

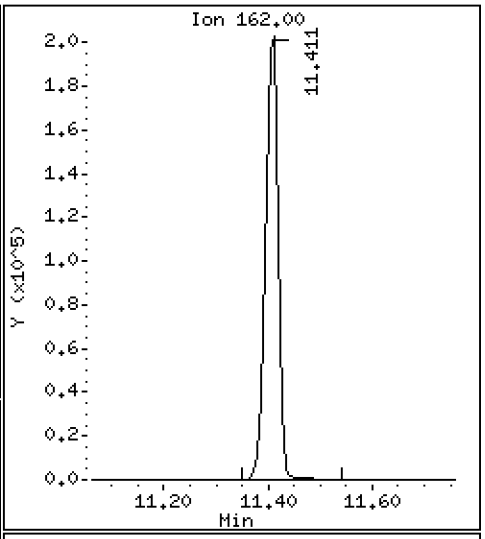
Column phase: ZB-5msi

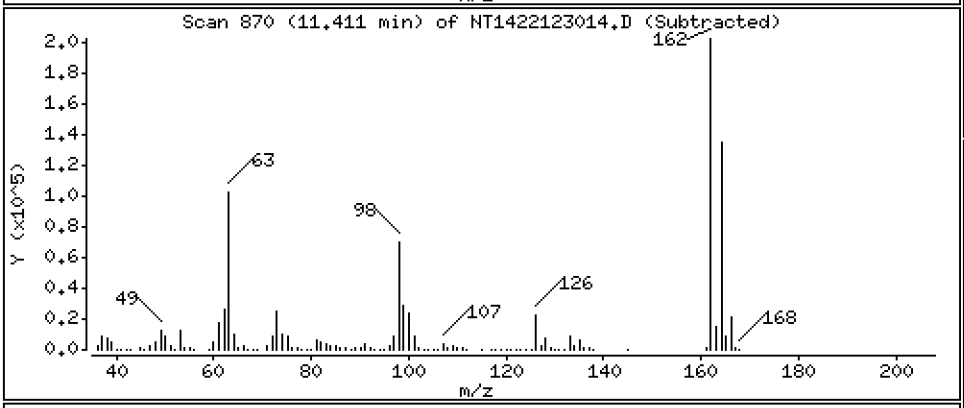
Column diameter: 0.25

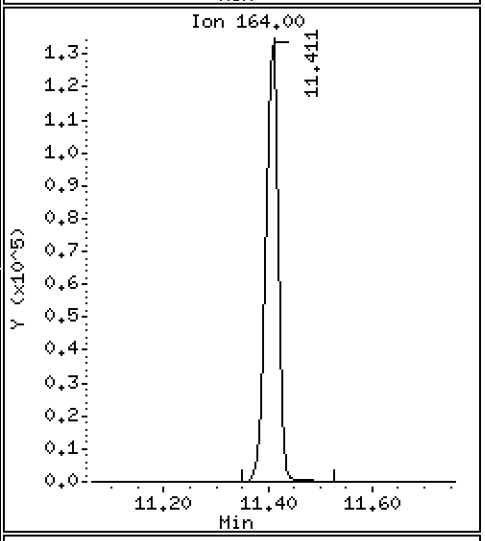
25 2,4-Dichlorophenol

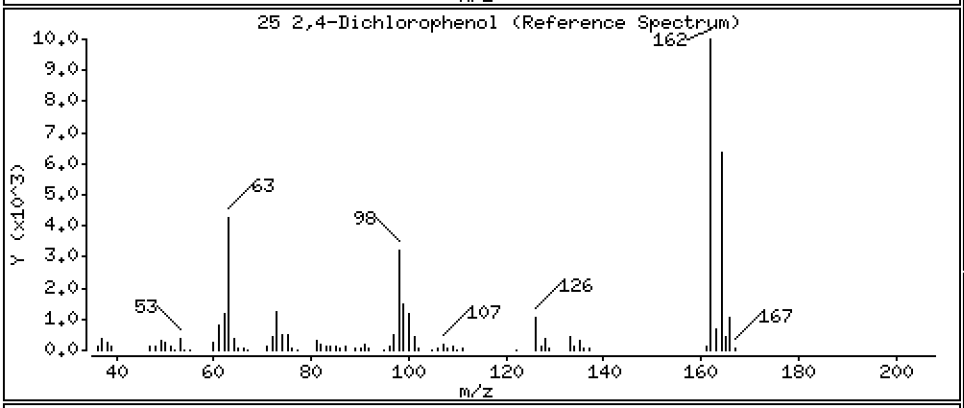
Concentration: 10.02 ug/mL

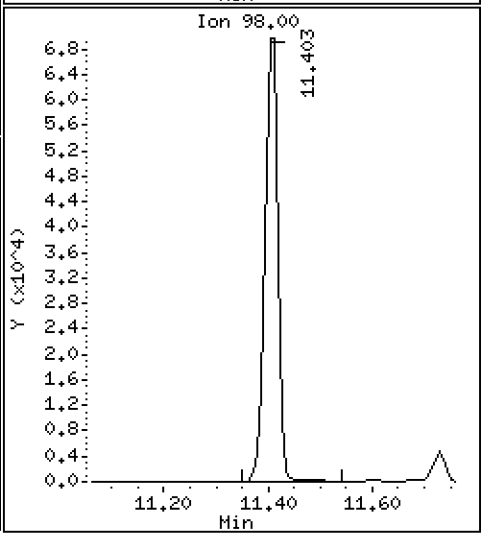


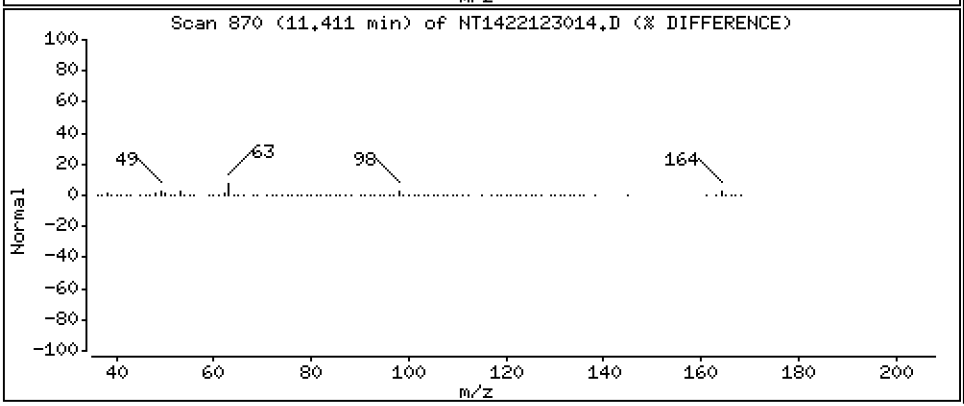












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

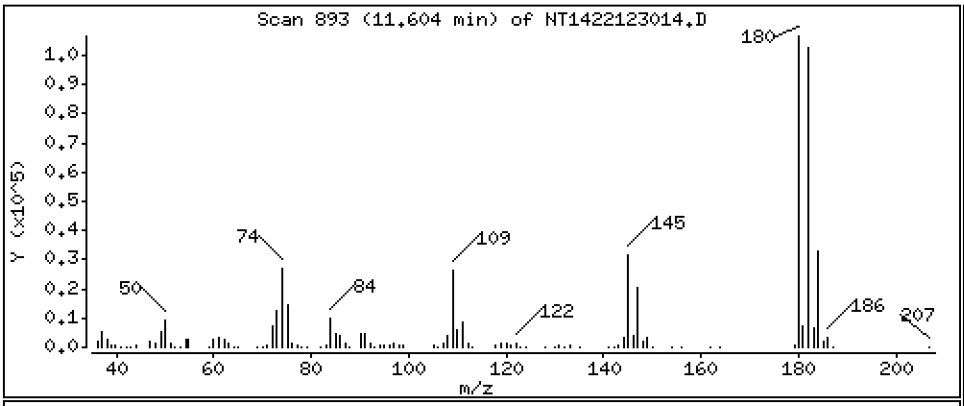
Operator: VTS

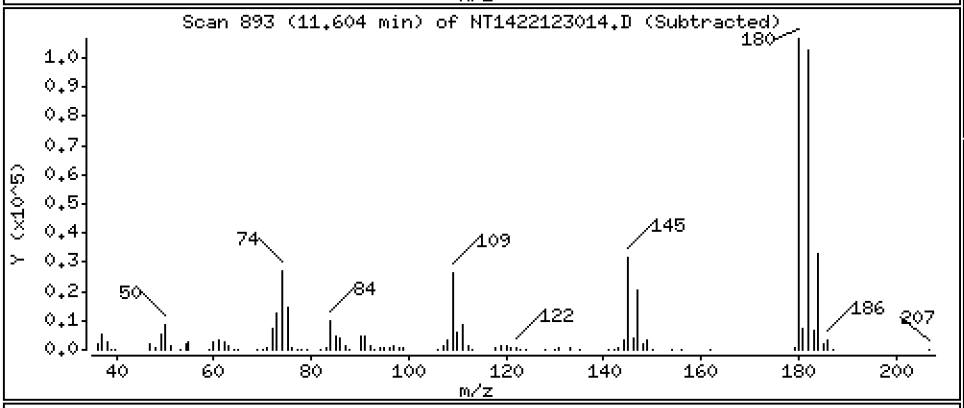
Column phase: ZB-5msi

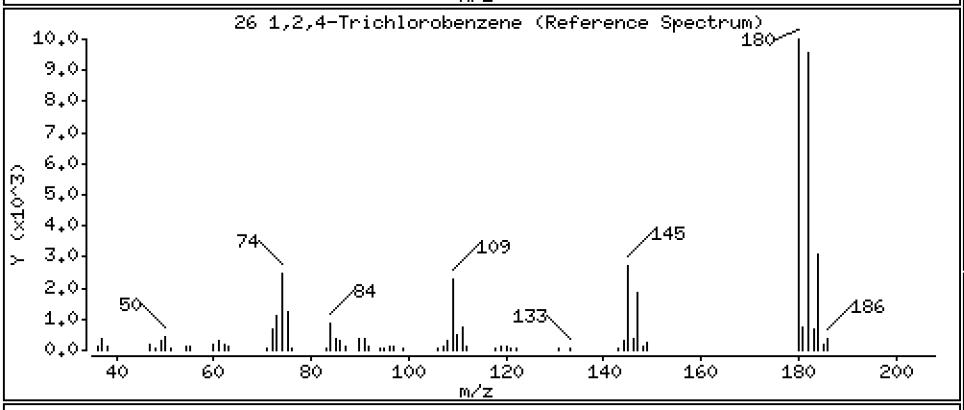
Column diameter: 0.25

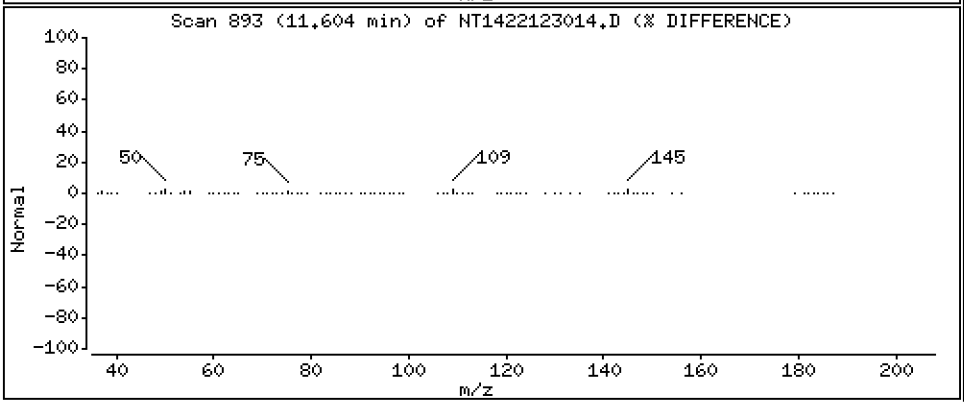
26 1,2,4-Trichlorobenzene

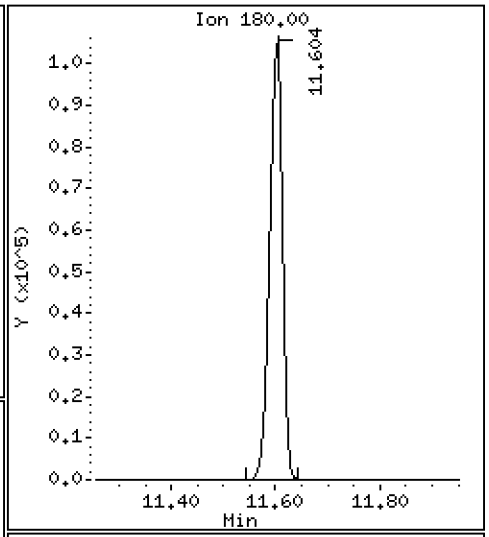
Concentration: 4.464 ug/mL

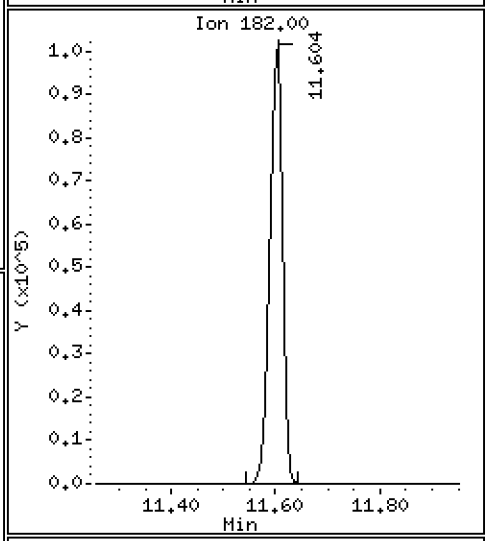


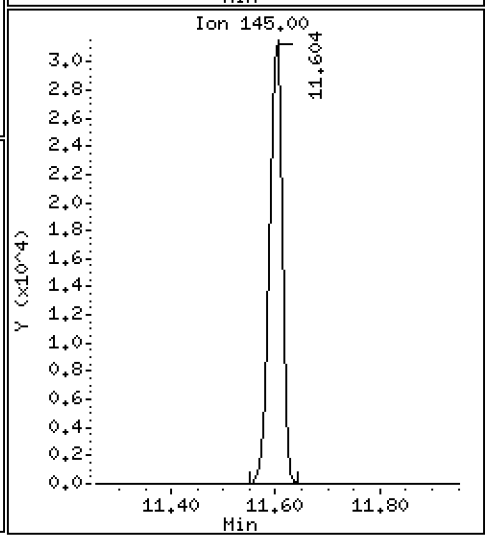












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

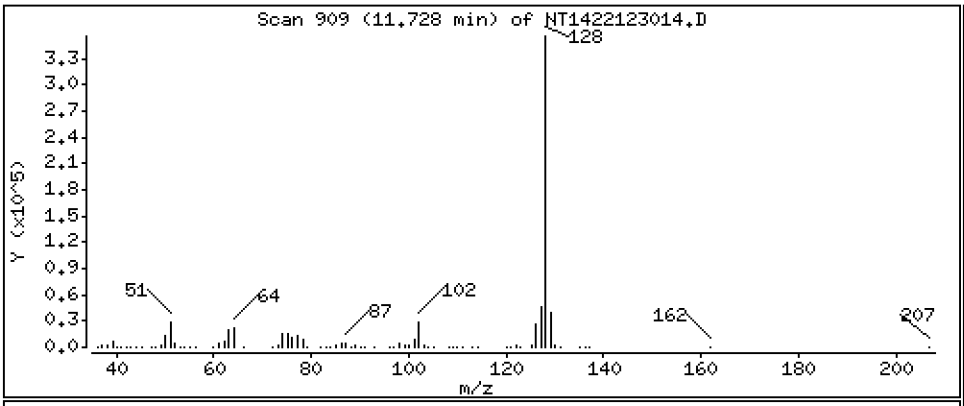
Operator: VTS

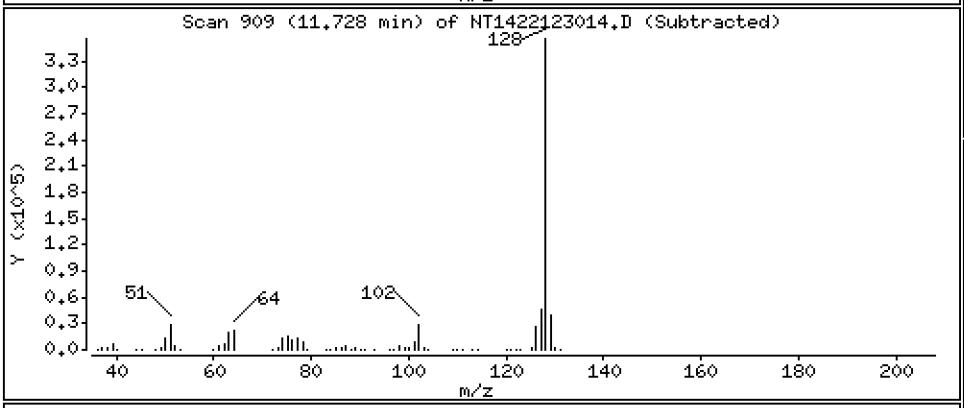
Column phase: ZB-5msi

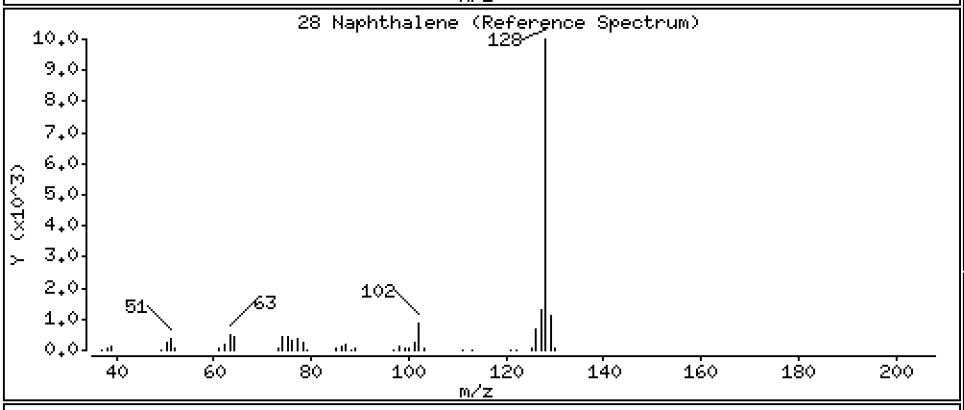
Column diameter: 0.25

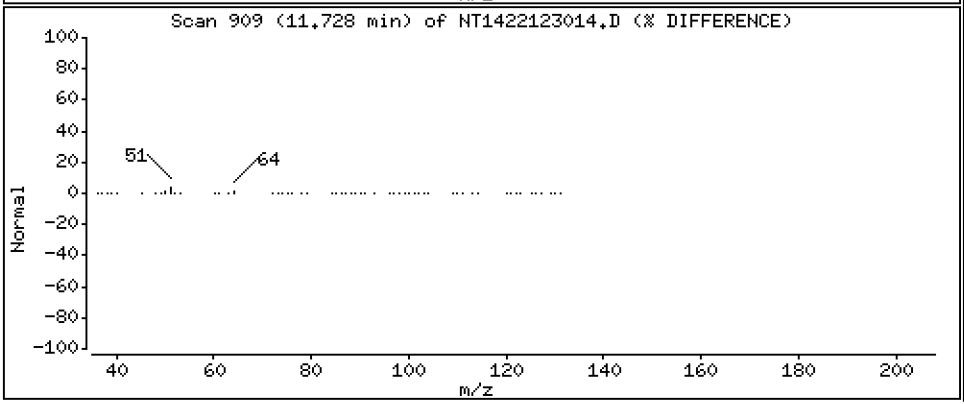
28 Naphthalene

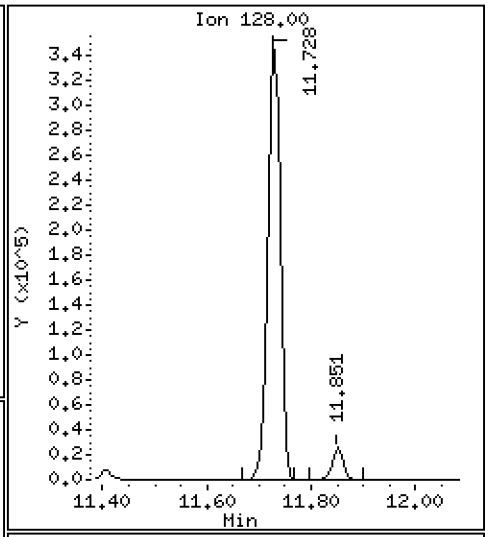
Concentration: 4.578 ug/mL

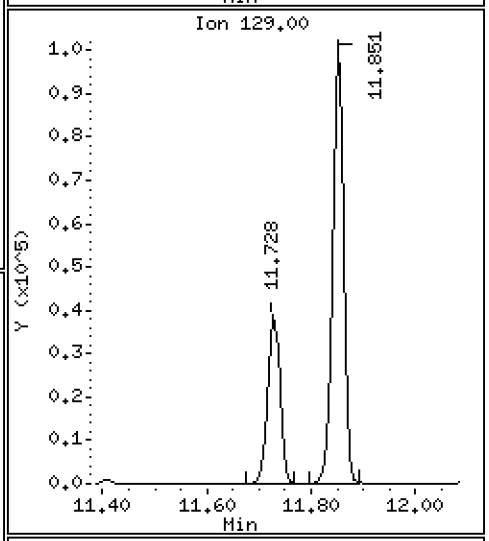


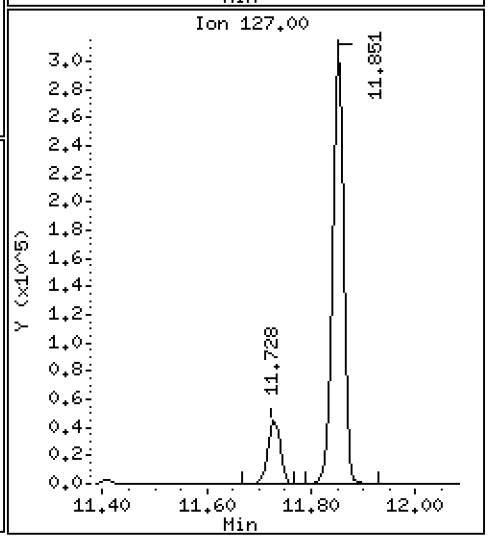












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

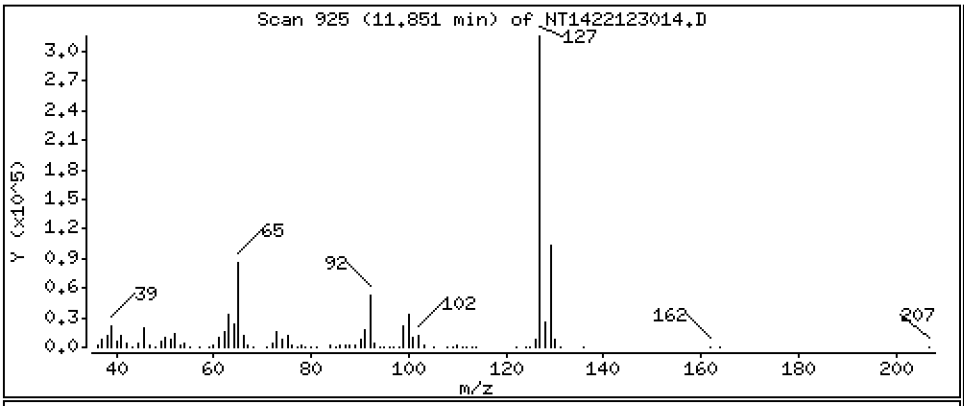
Operator: VTS

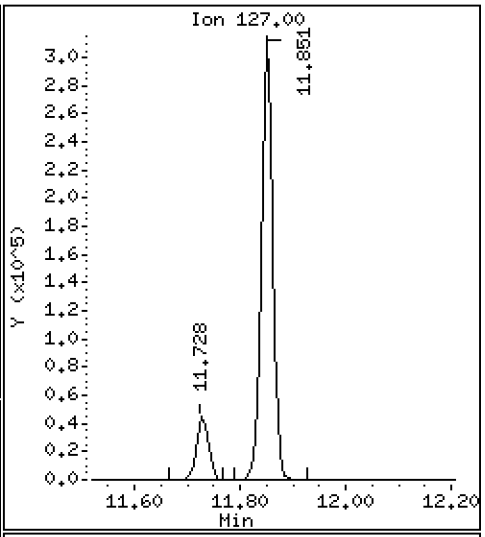
Column phase: ZB-5msi

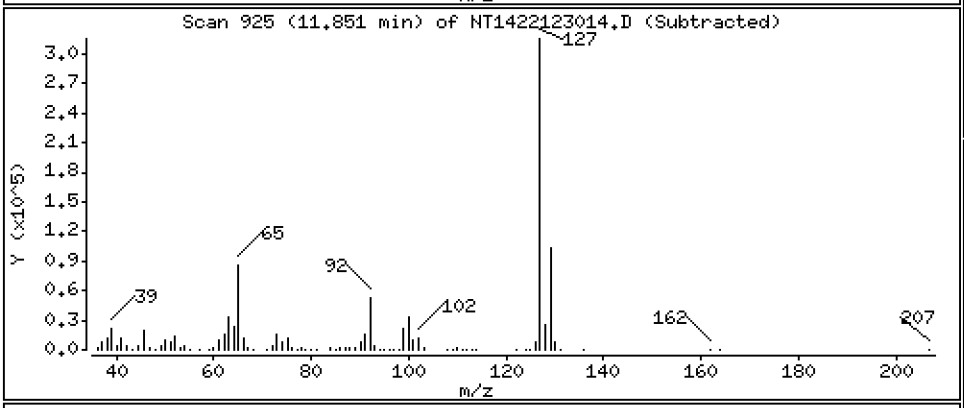
Column diameter: 0.25

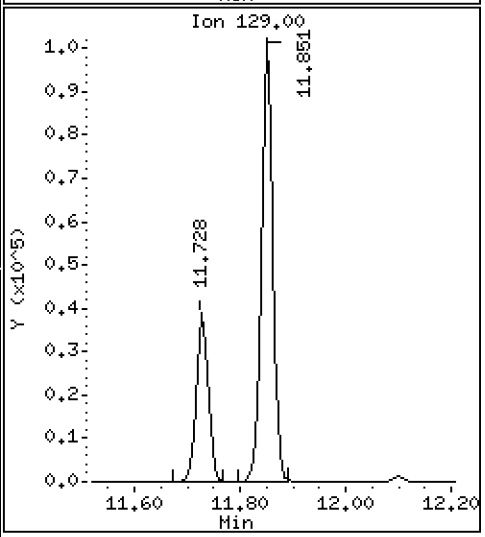
29 4-Chloroaniline

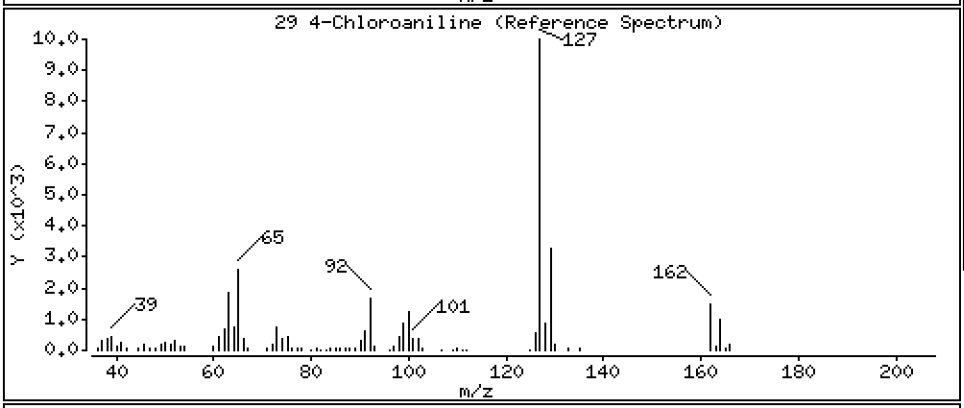
Concentration: 9.732 ug/mL

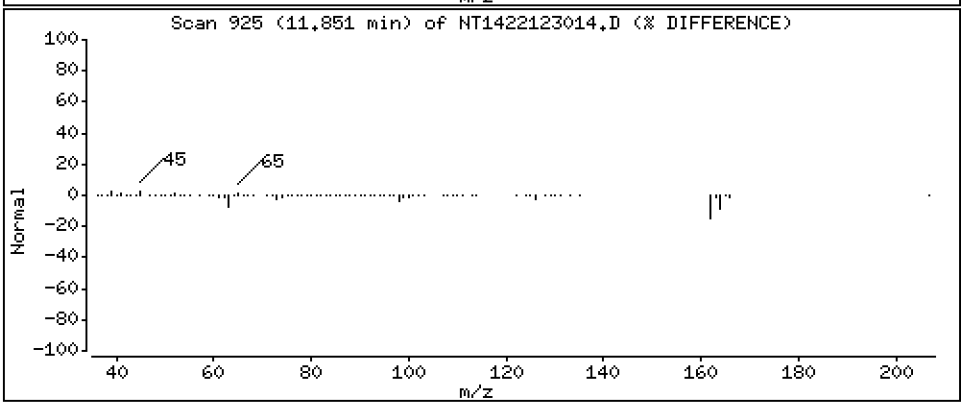












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

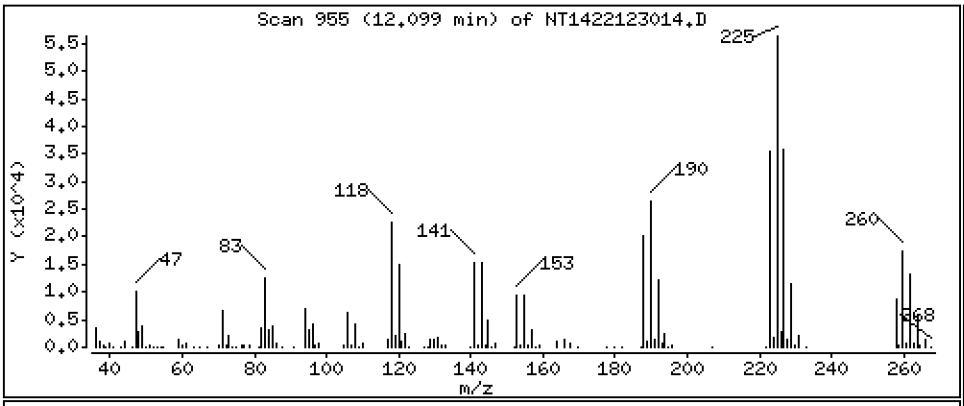
Operator: VTS

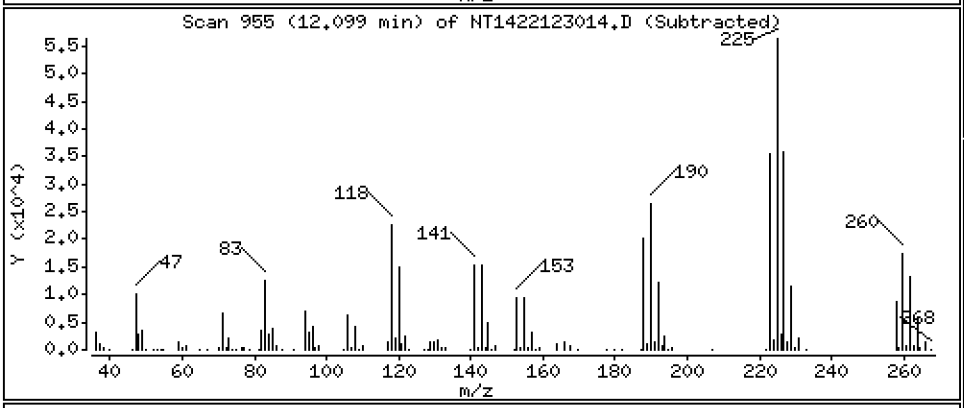
Column phase: ZB-5msi

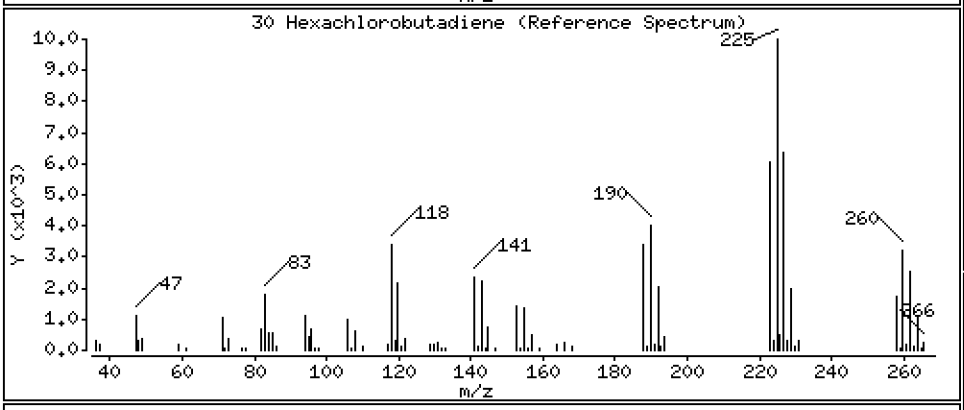
Column diameter: 0.25

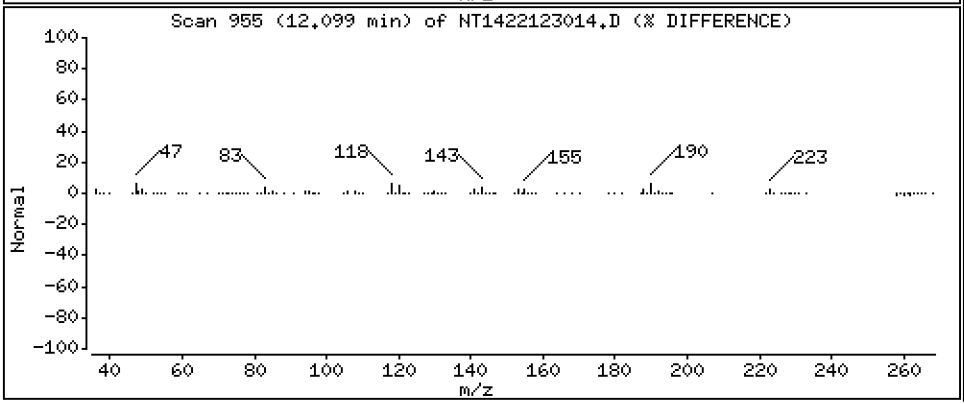
30 Hexachlorobutadiene

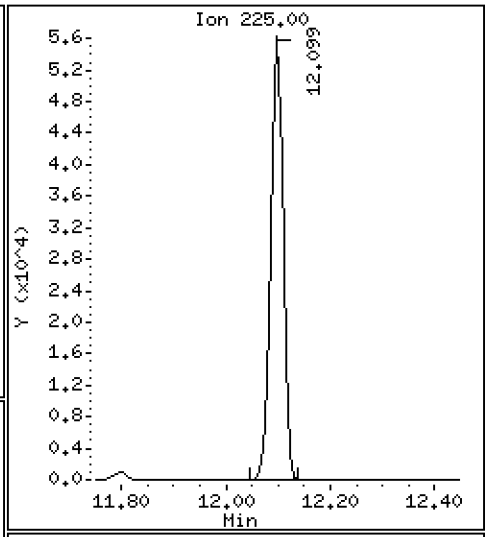
Concentration: 4.536 ug/mL

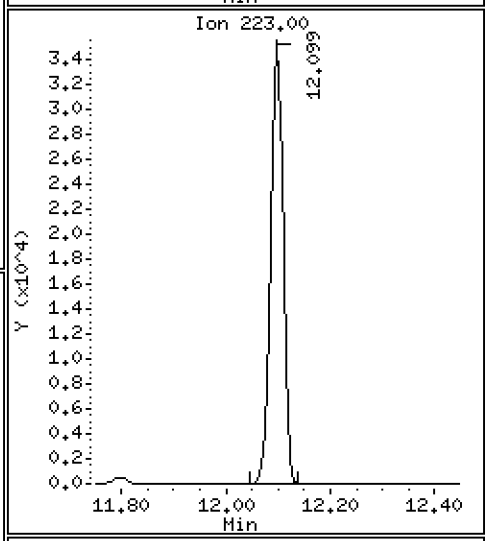


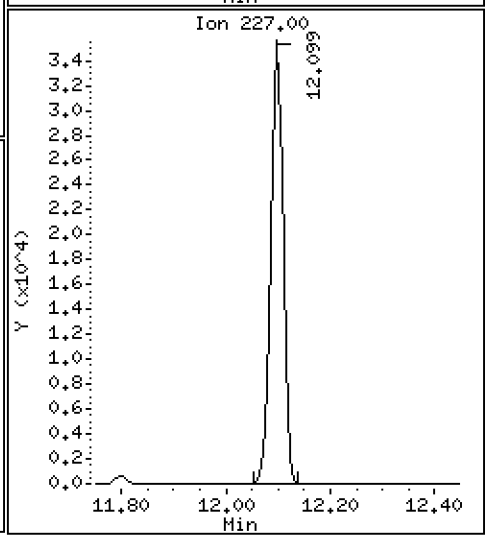












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

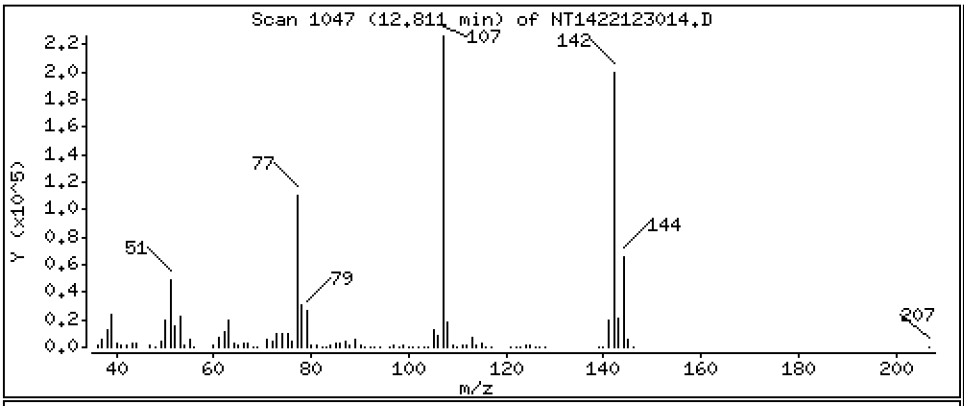
Operator: VTS

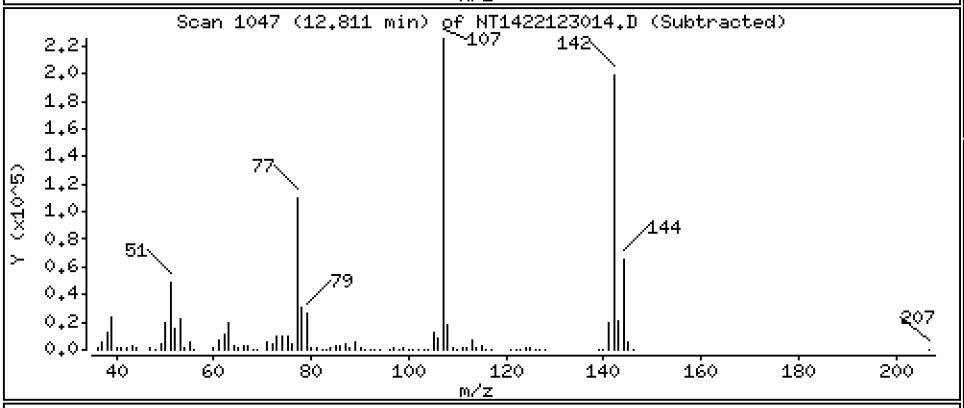
Column phase: ZB-5msi

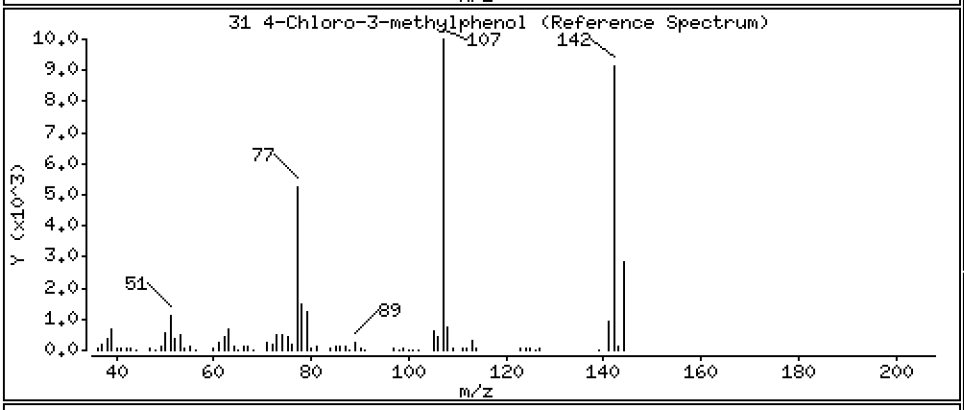
Column diameter: 0.25

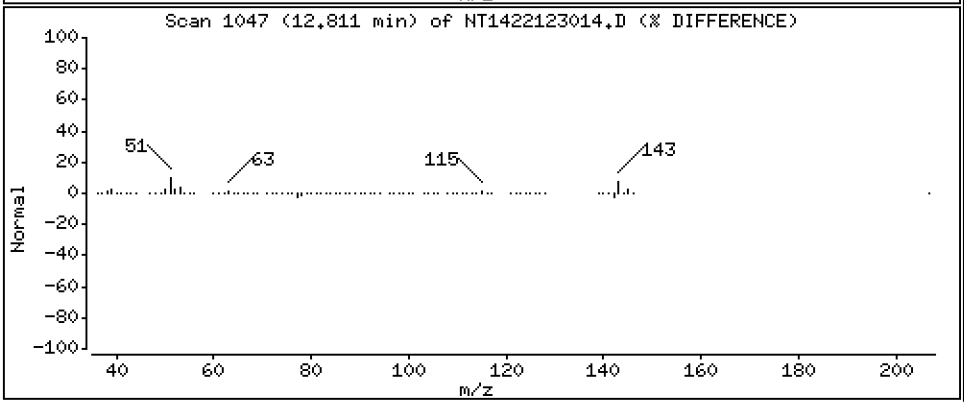
31 4-Chloro-3-methylphenol

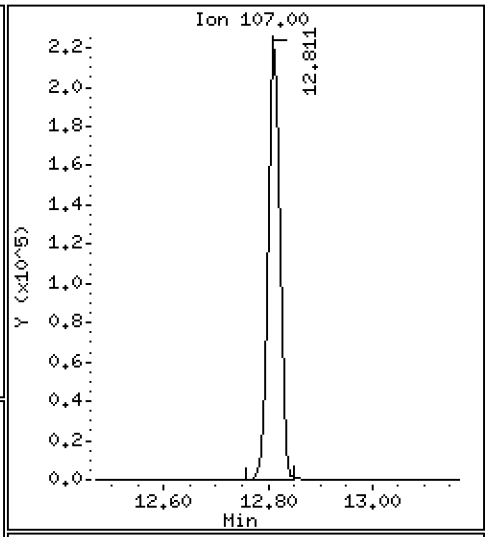
Concentration: 10.02 ug/mL

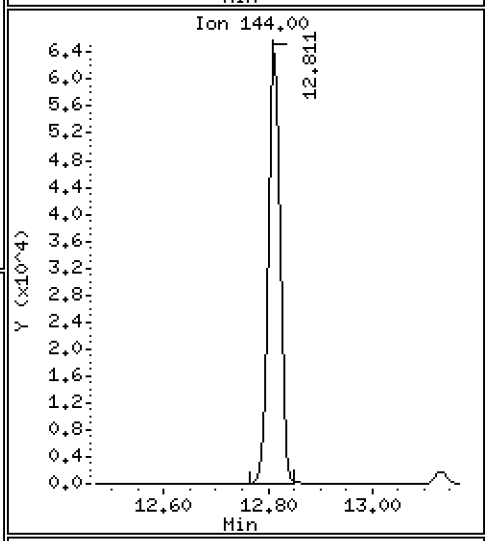


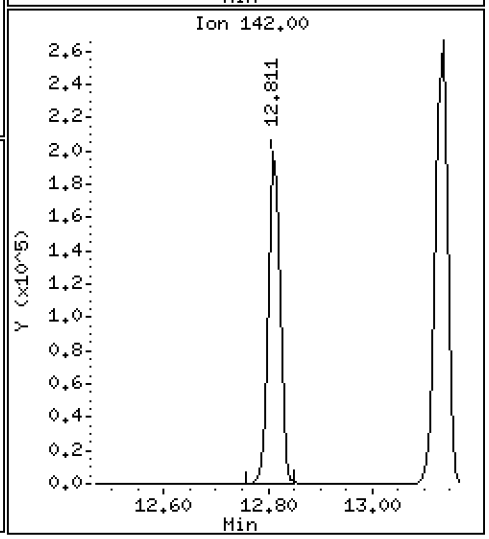












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

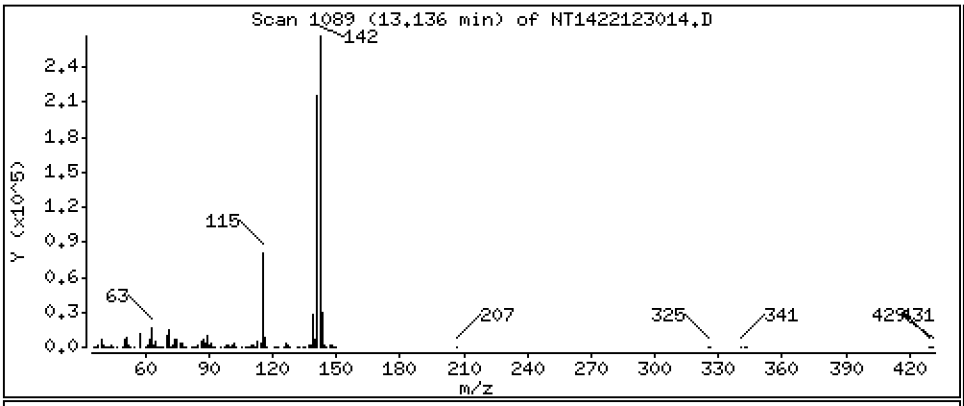
Operator: VTS

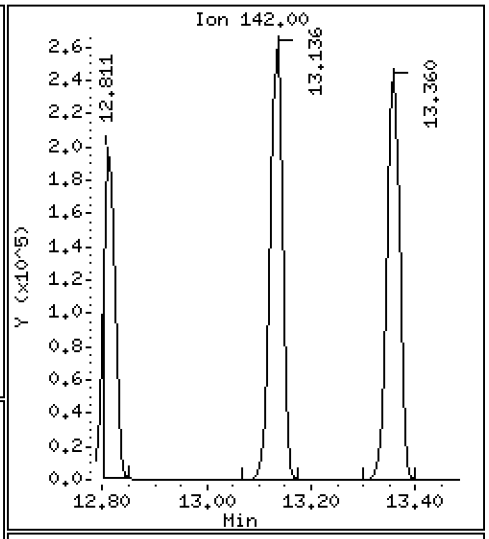
Column phase: ZB-5msi

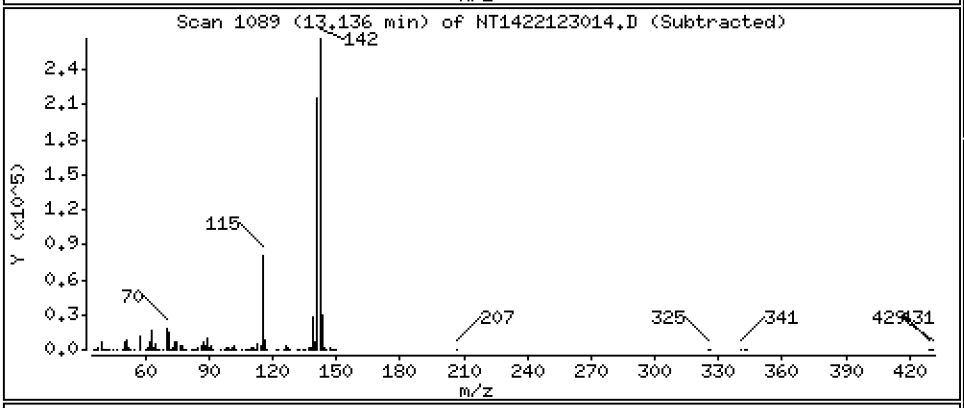
Column diameter: 0.25

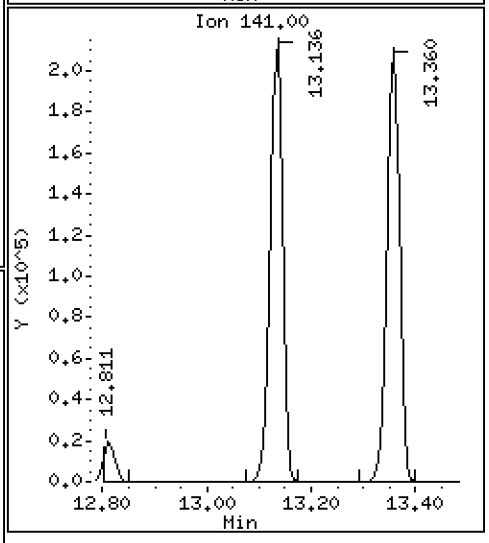
32 2-Methylnaphthalene

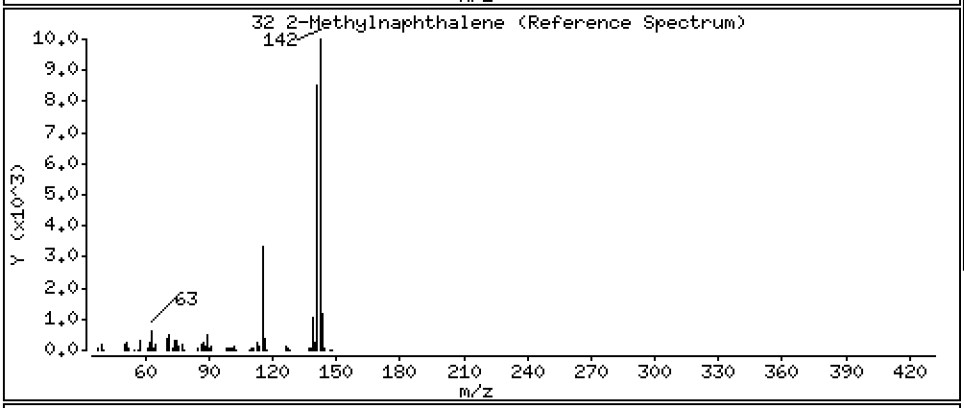
Concentration: 4.684 ug/mL

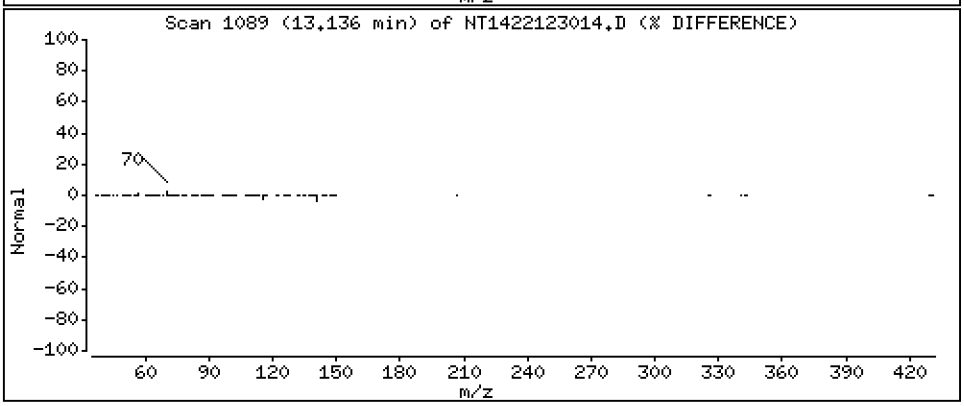












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

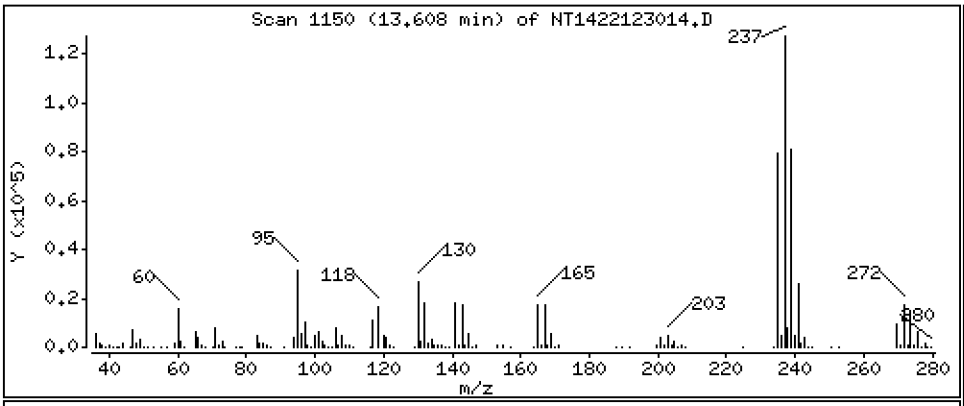
Operator: VTS

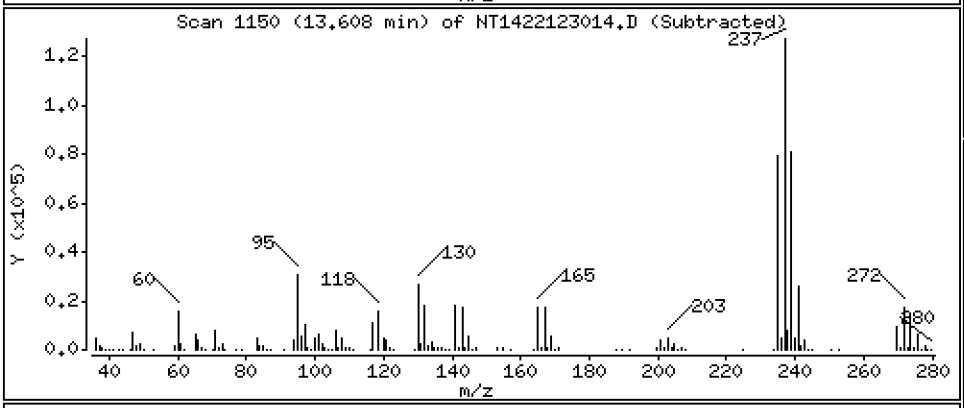
Column phase: ZB-5msi

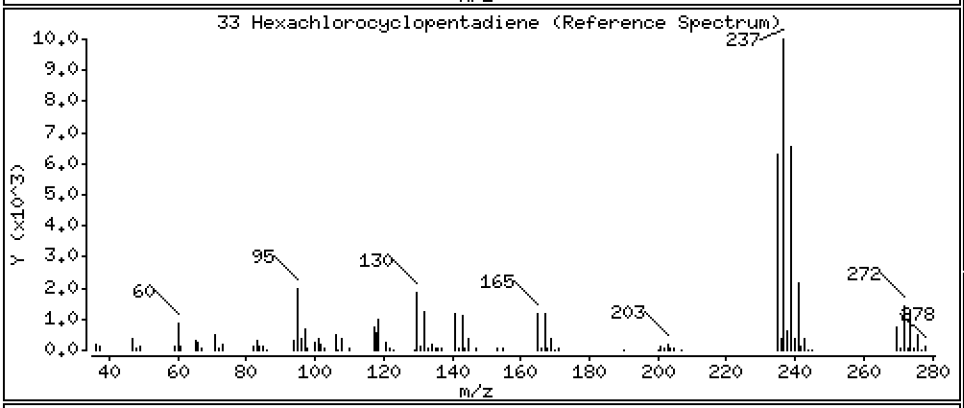
Column diameter: 0.25

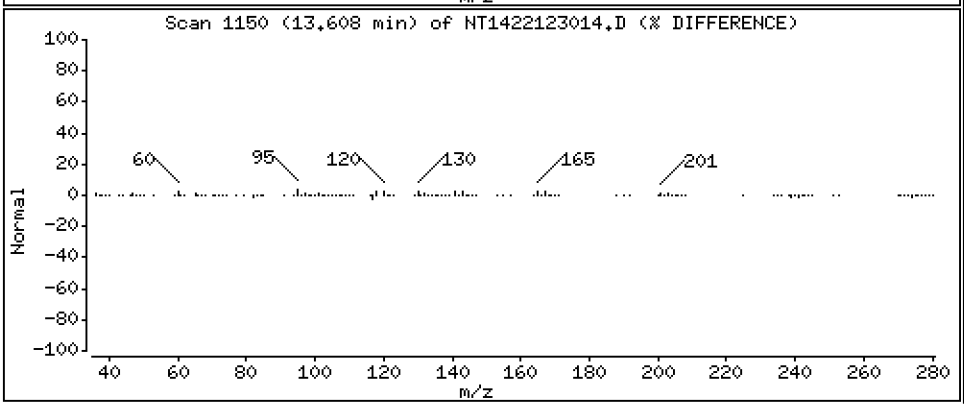
33 Hexachlorocyclopentadiene

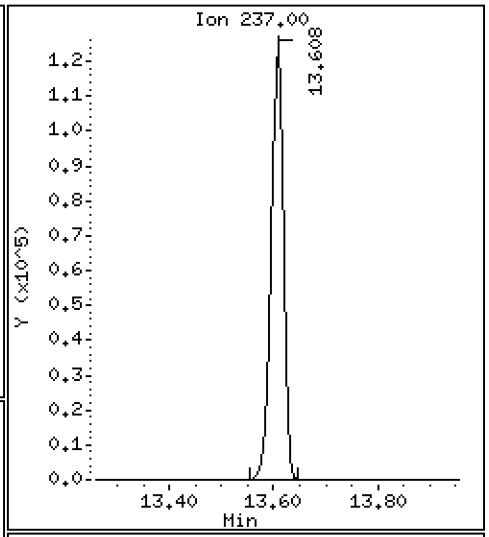
Concentration: 9.679 ug/mL

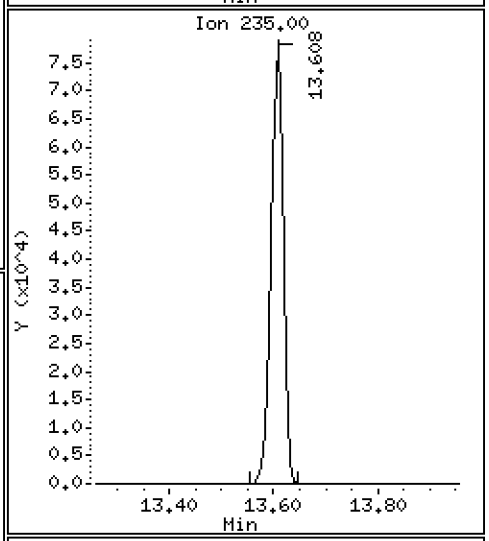


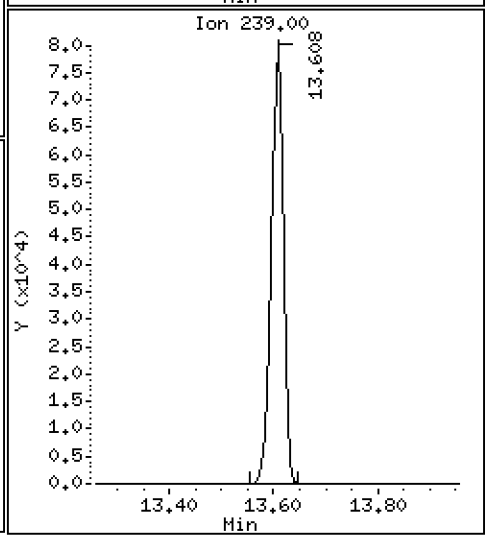












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

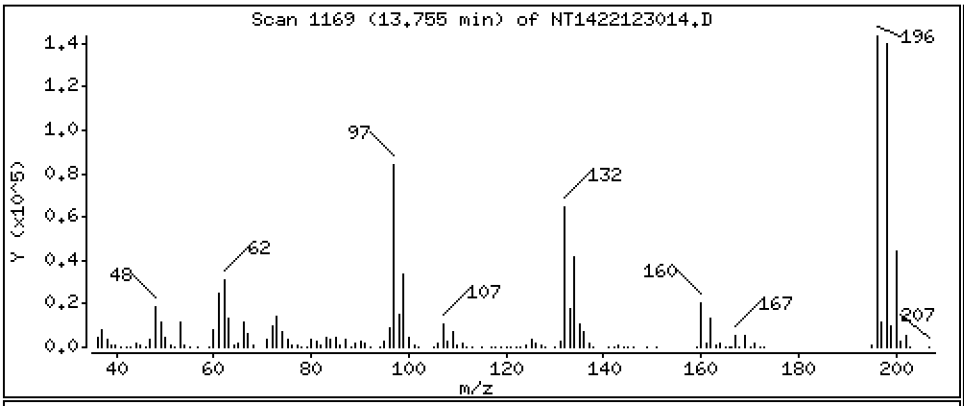
Operator: VTS

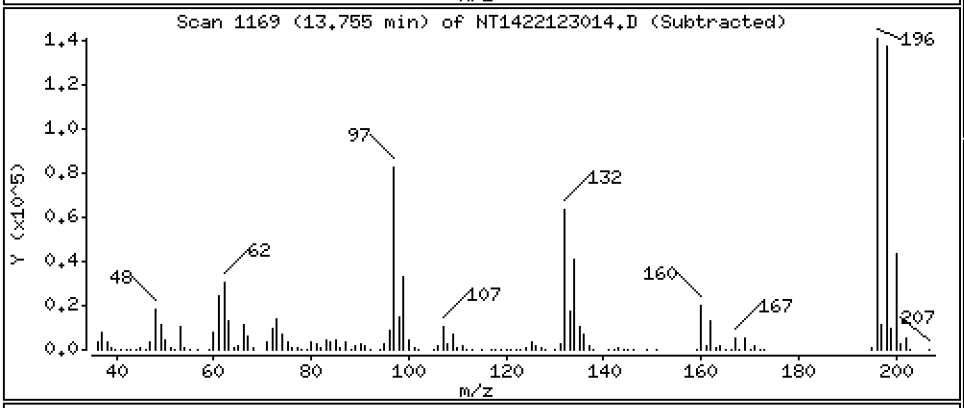
Column phase: ZB-5msi

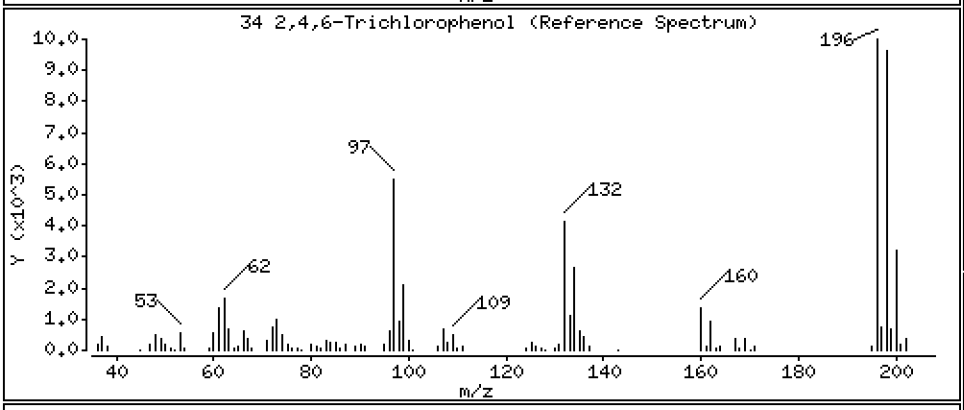
Column diameter: 0.25

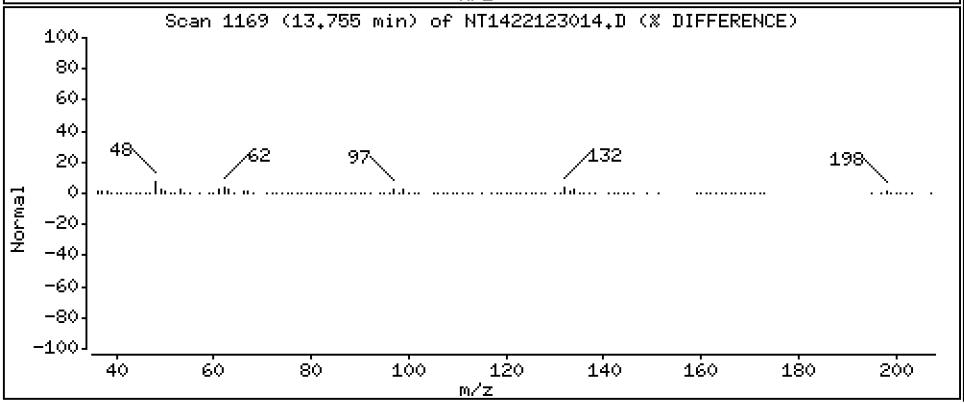
34 2,4,6-Trichlorophenol

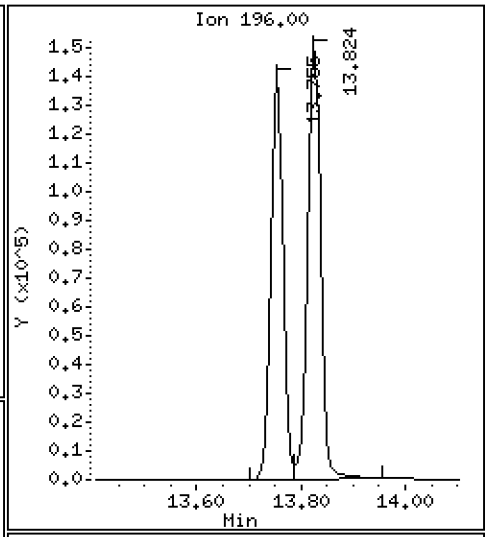
Concentration: 9.832 ug/mL

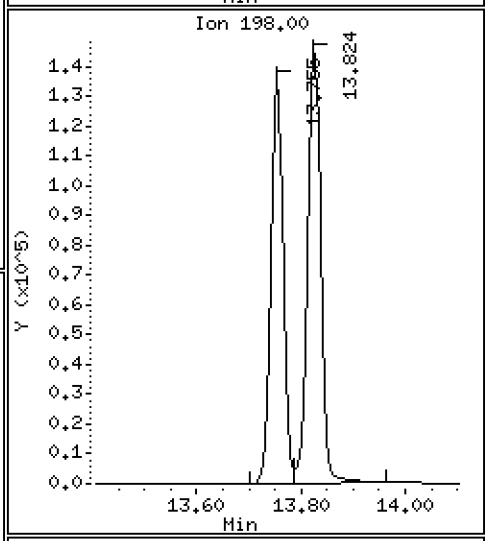


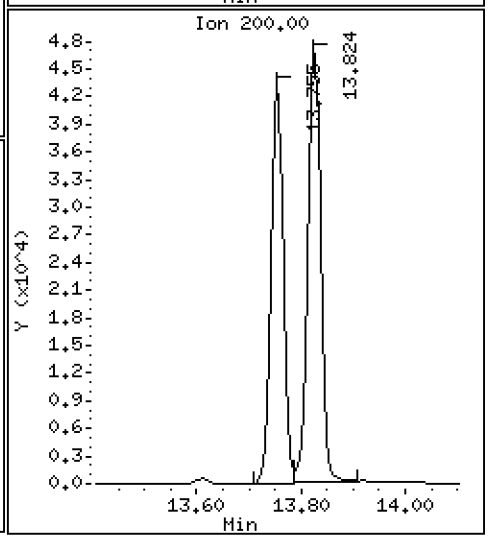












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

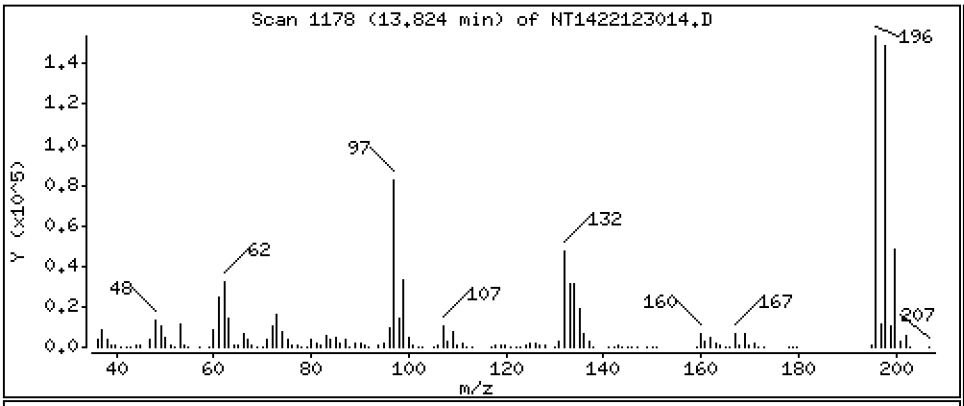
Operator: VTS

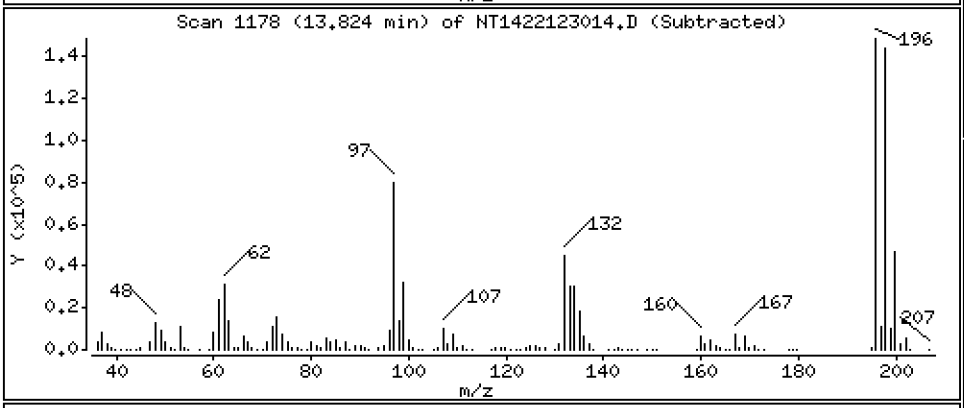
Column phase: ZB-5msi

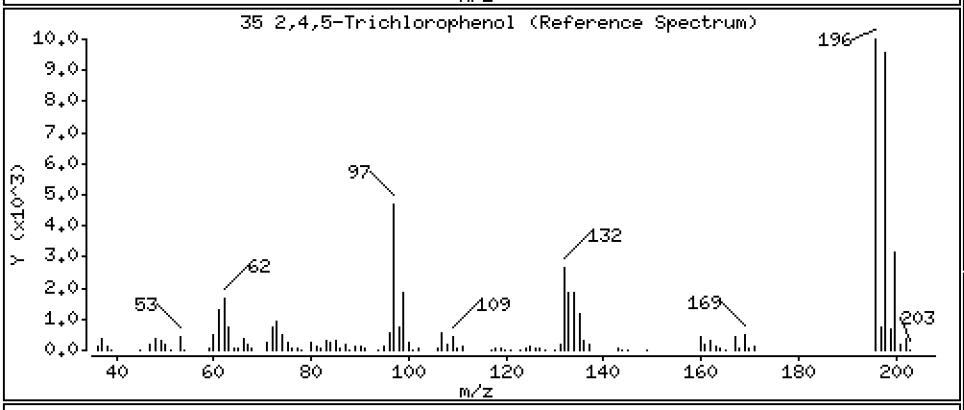
Column diameter: 0.25

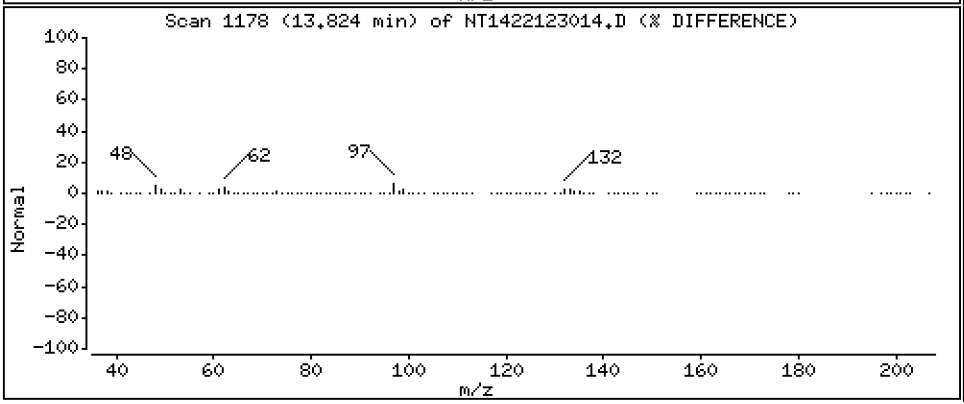
35 2,4,5-Trichlorophenol

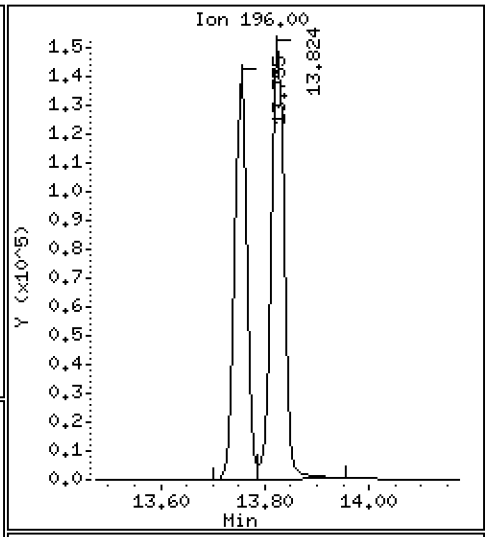
Concentration: 9.857 ug/mL

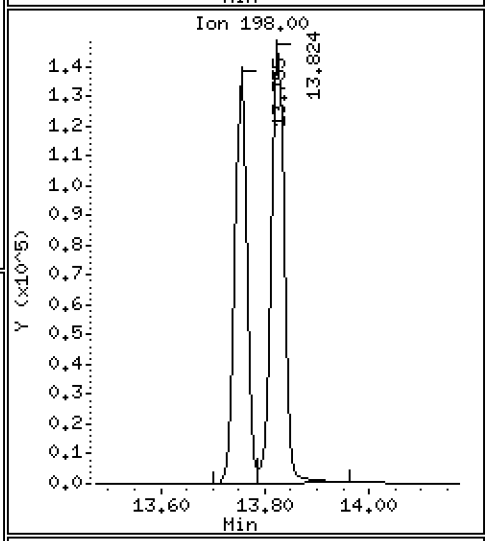


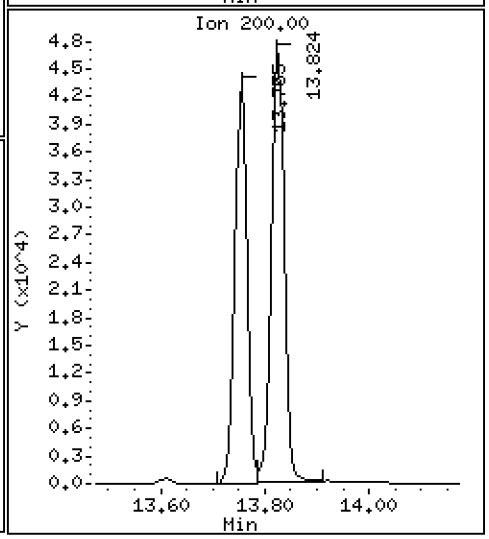












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

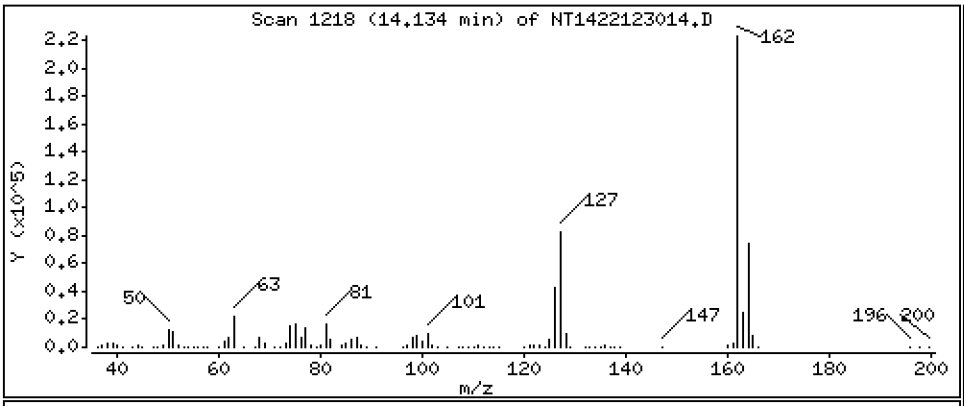
Operator: VTS

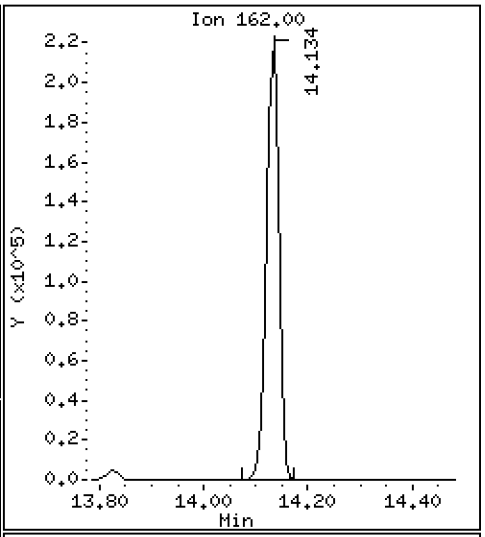
Column phase: ZB-5msi

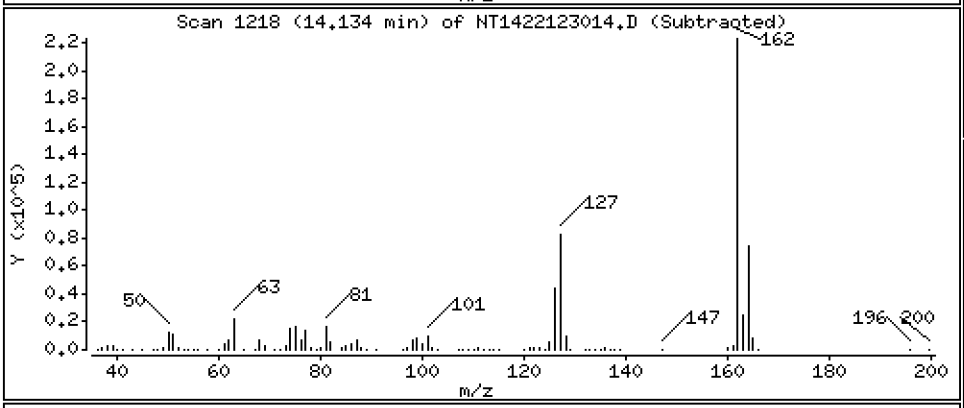
Column diameter: 0.25

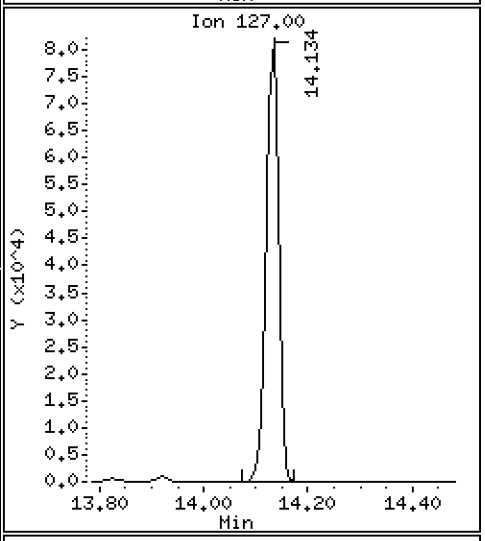
37 2-Chloronaphthalene

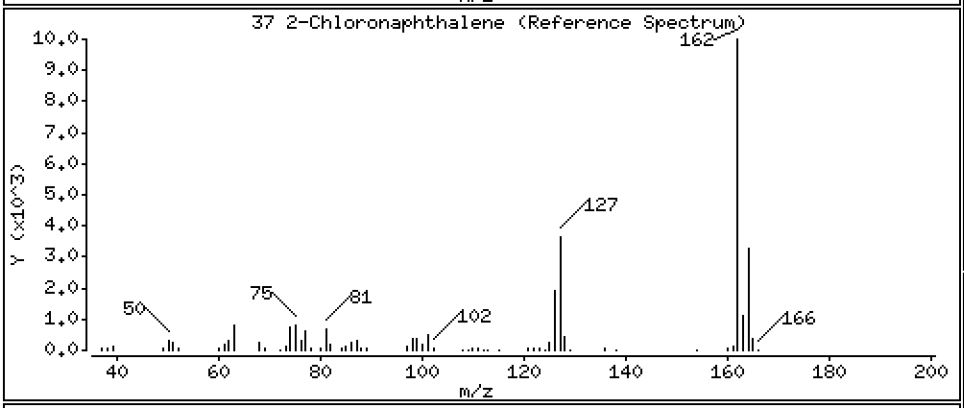
Concentration: 4.627 ug/mL

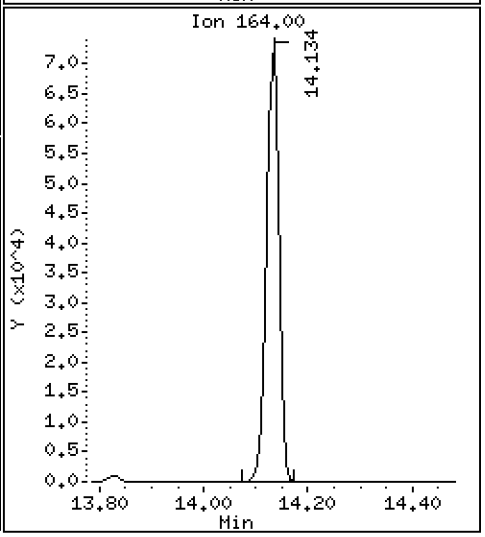


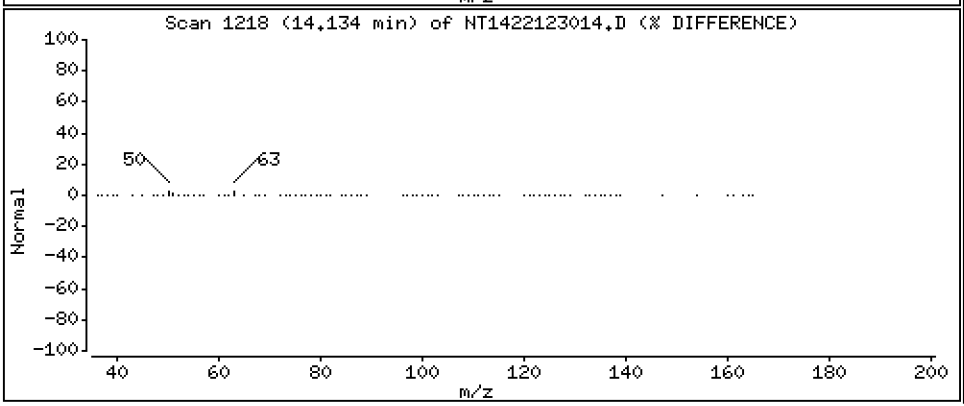












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

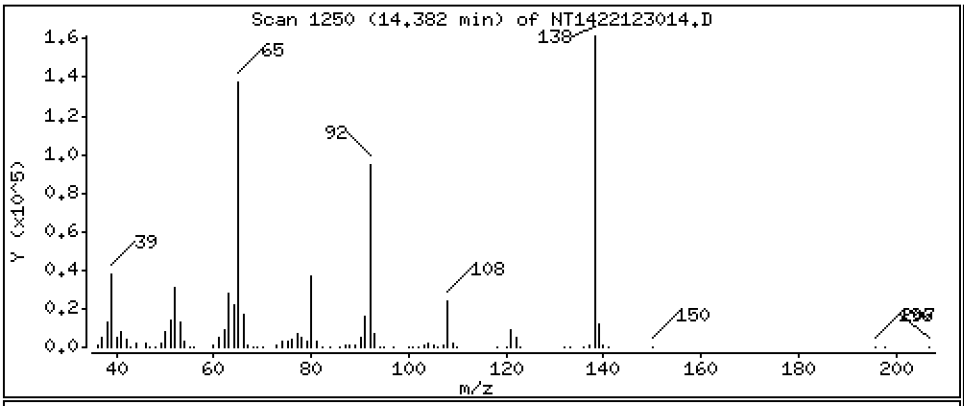
Operator: VTS

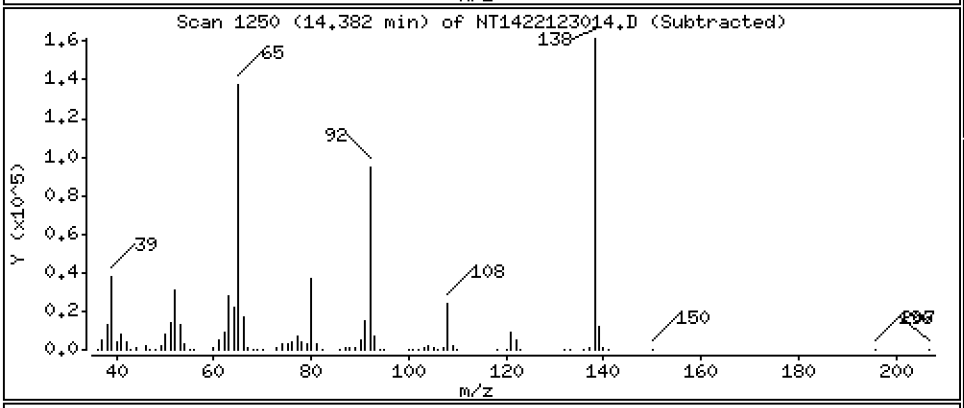
Column phase: ZB-5msi

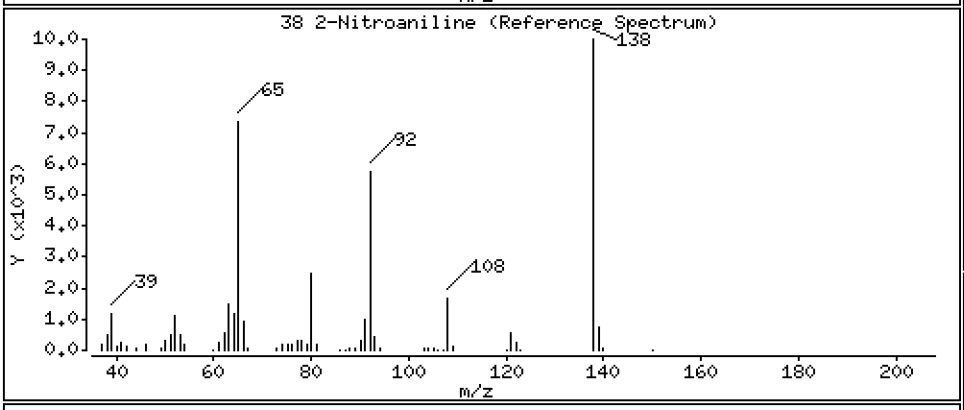
Column diameter: 0.25

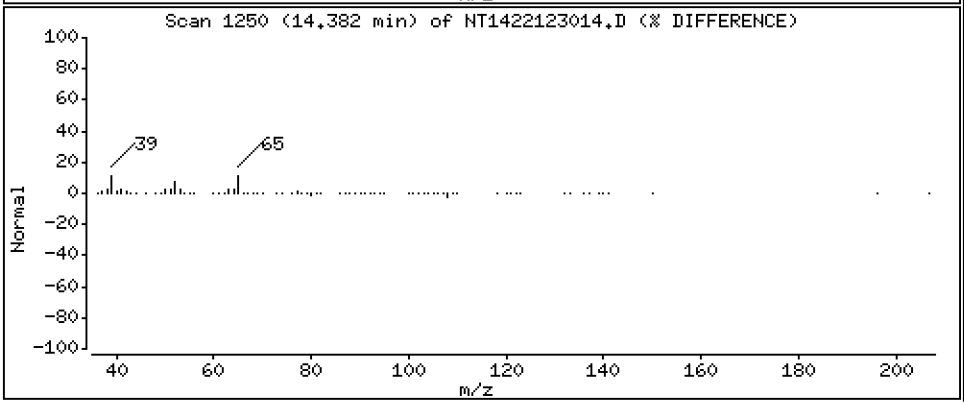
38 2-Nitroaniline

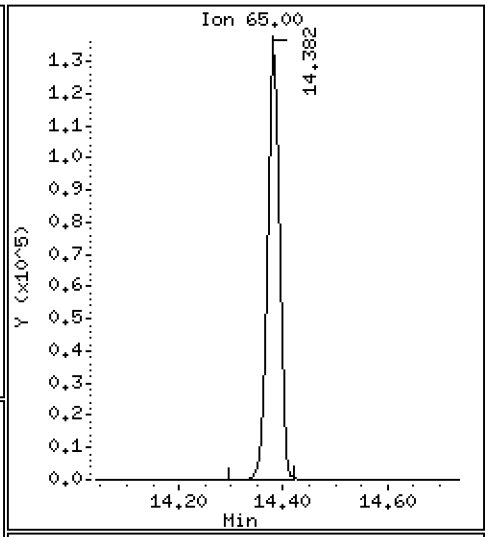
Concentration: 10.67 ug/mL

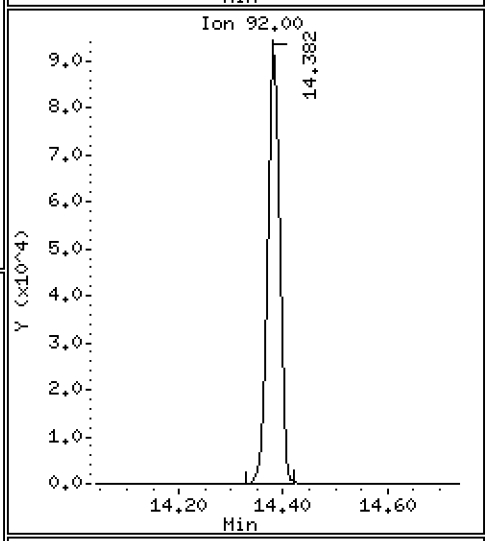


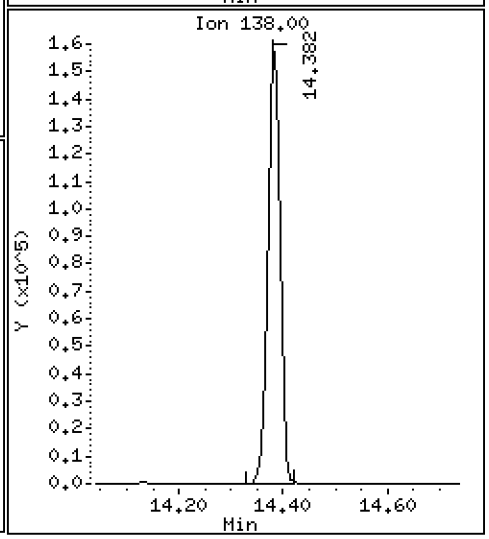












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

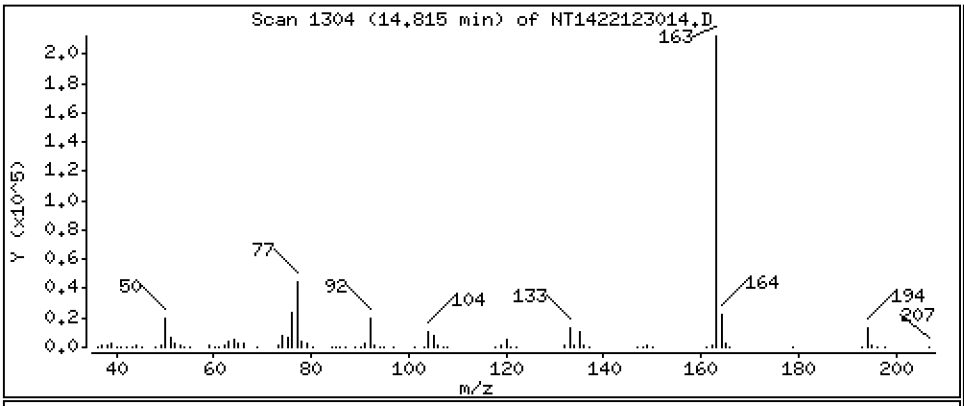
Operator: VTS

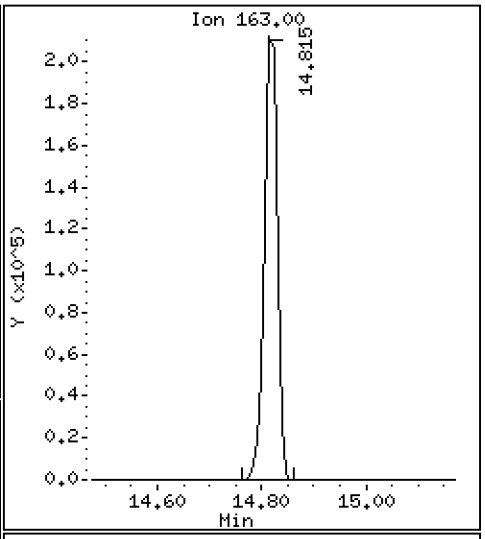
Column phase: ZB-5msi

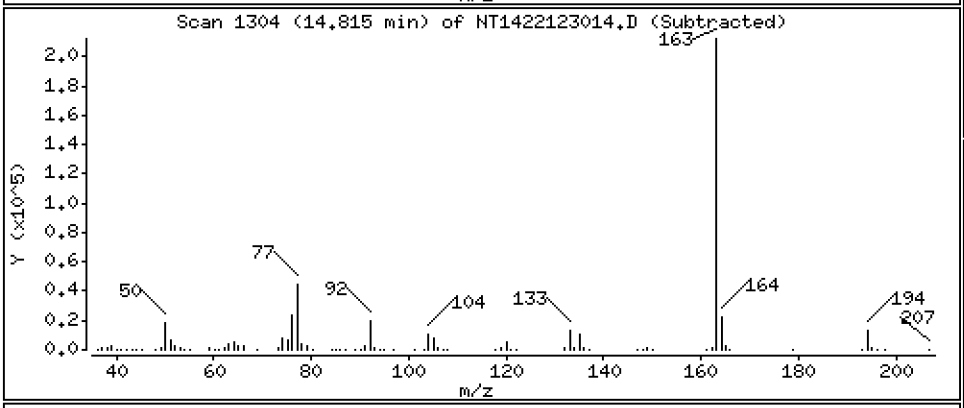
Column diameter: 0.25

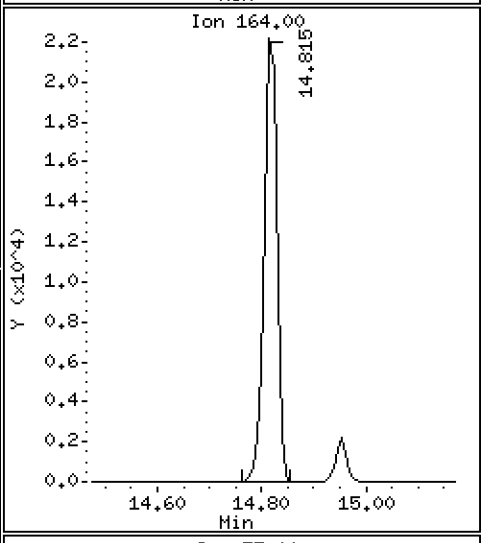
39 Dimethylphthalate

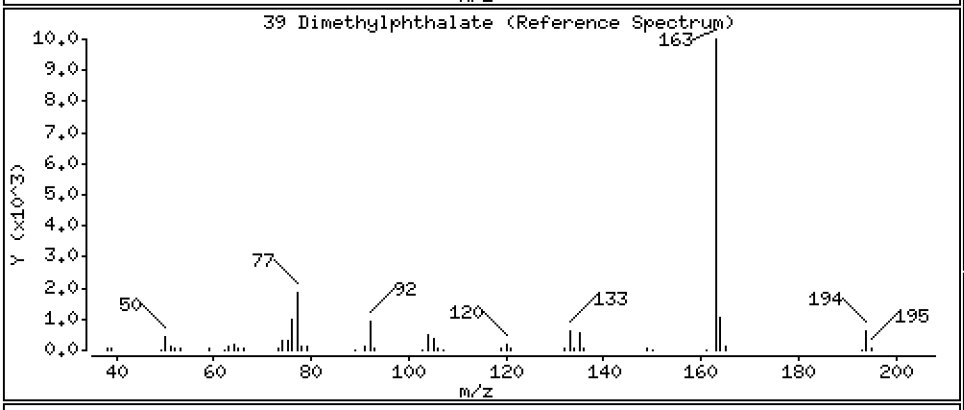
Concentration: 4.718 ug/mL

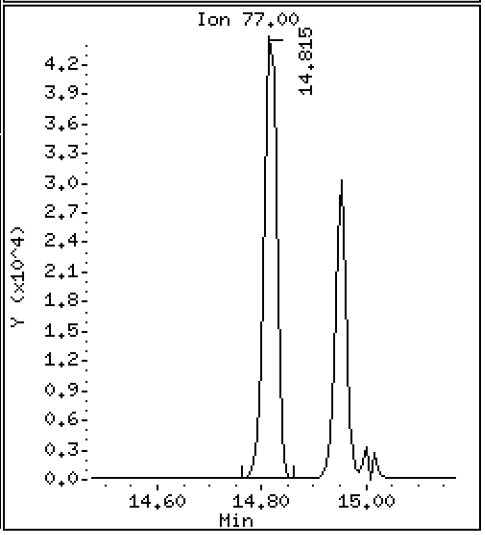


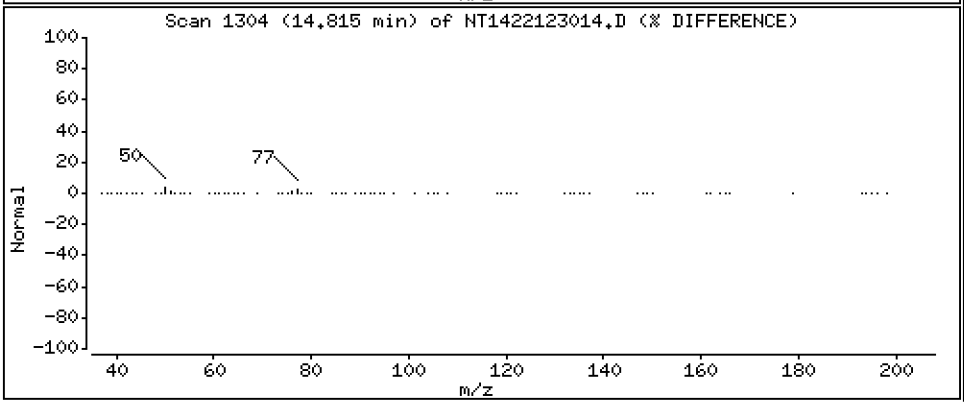












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

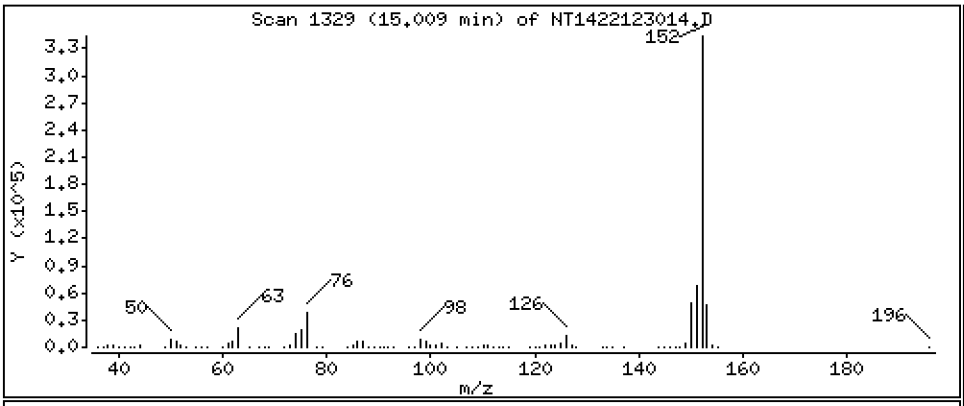
Operator: VTS

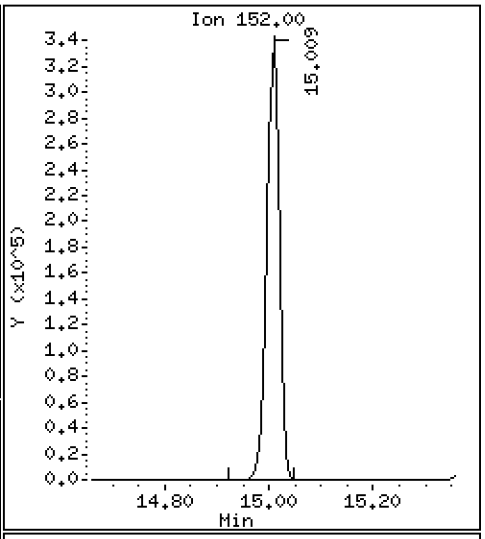
Column phase: ZB-5msi

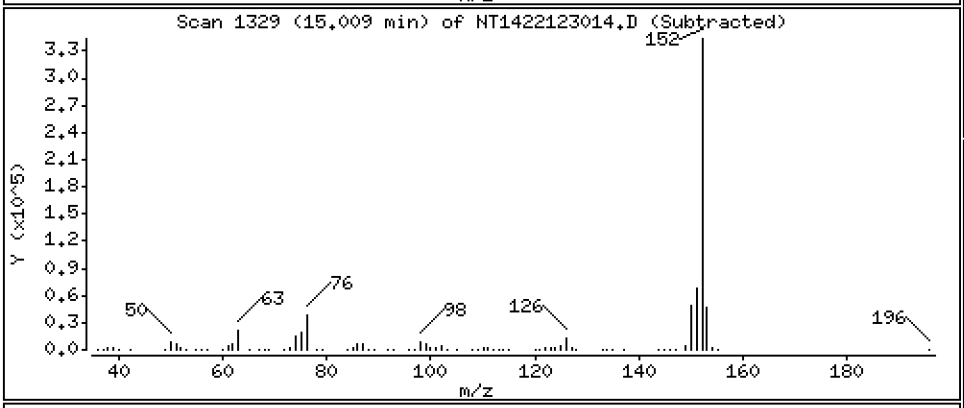
Column diameter: 0.25

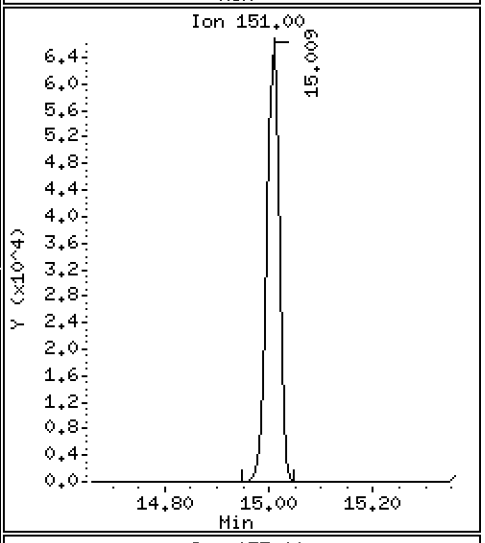
40 Acenaphthylene

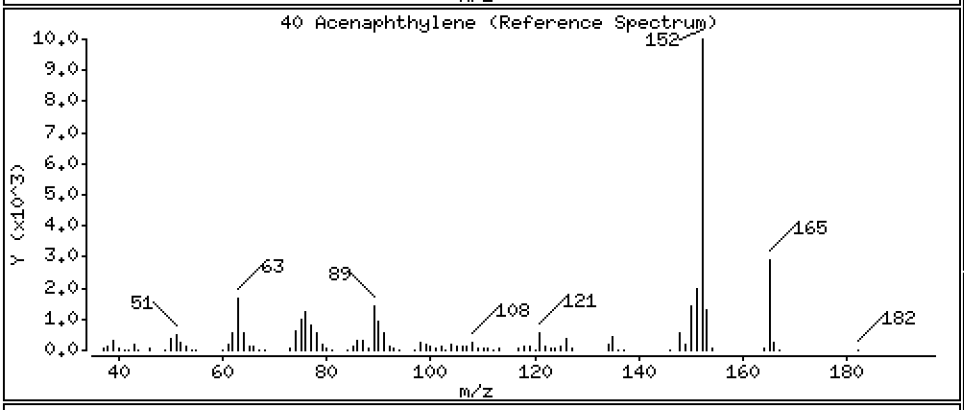
Concentration: 4.713 ug/mL

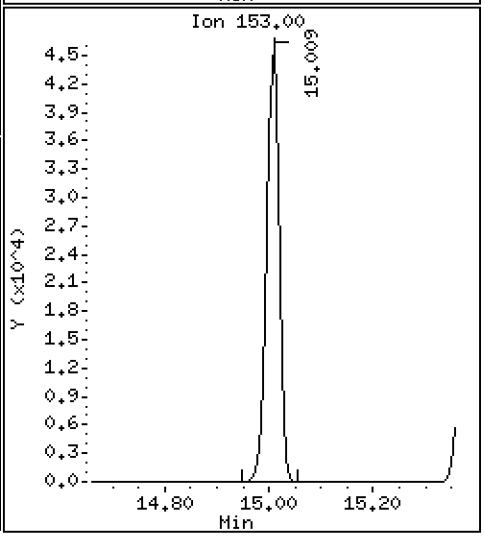


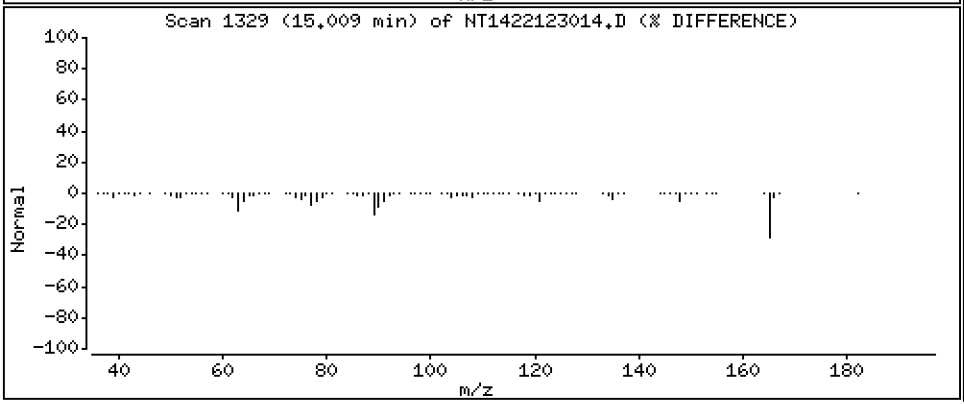












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

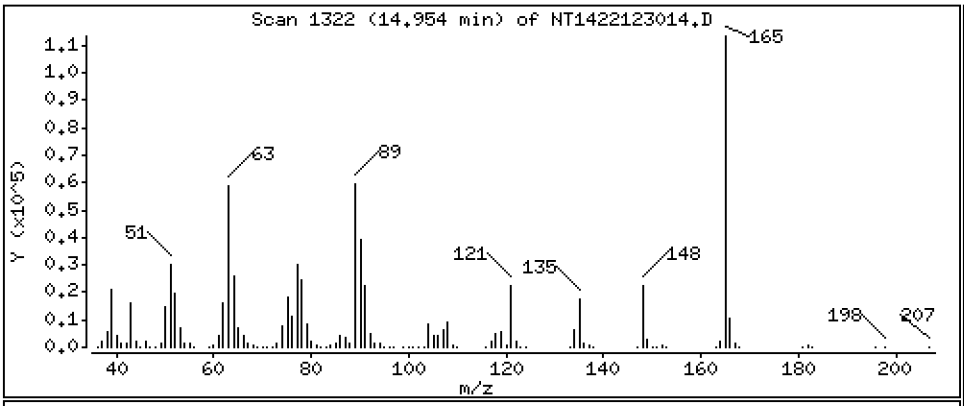
Operator: VTS

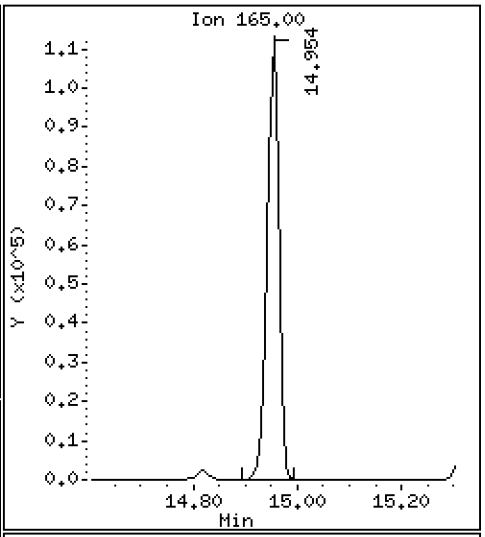
Column phase: ZB-5msi

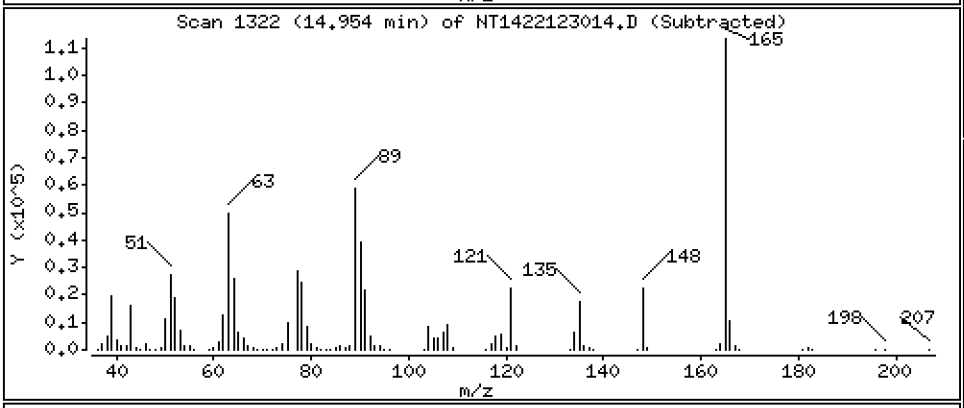
Column diameter: 0.25

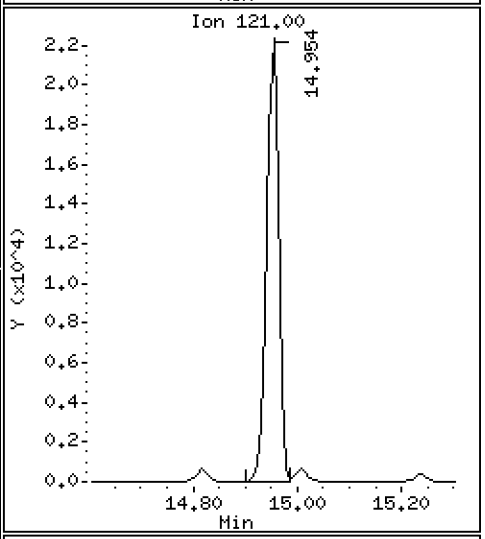
41 2,6-Dinitrotoluene

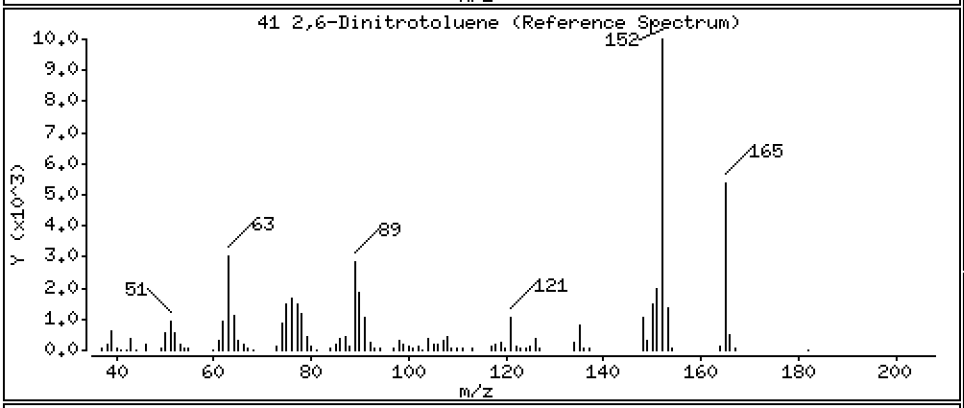
Concentration: 9.927 ug/mL

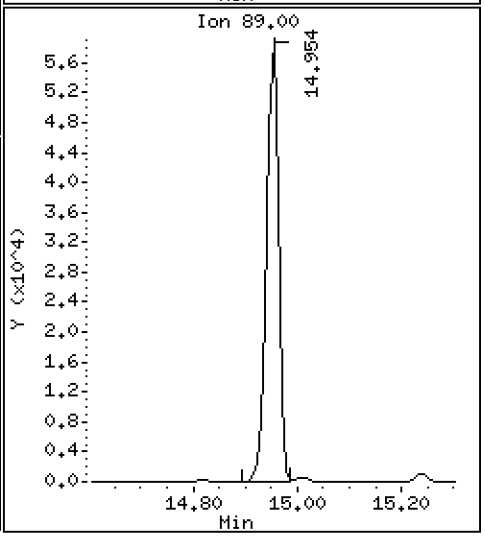


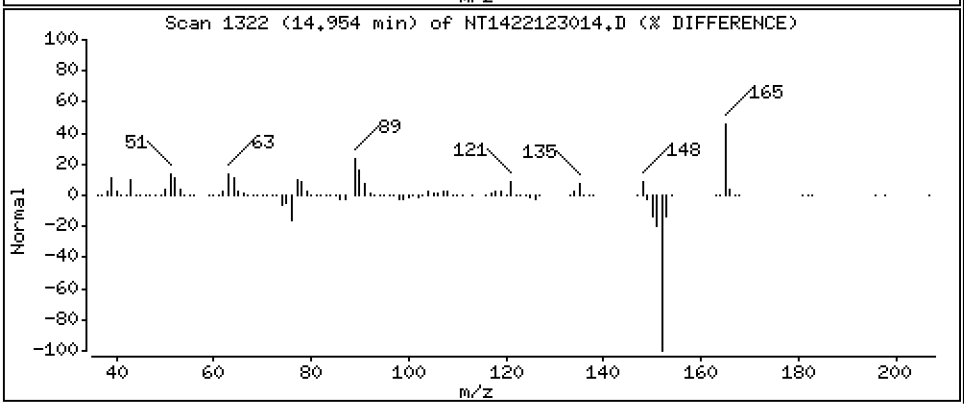












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

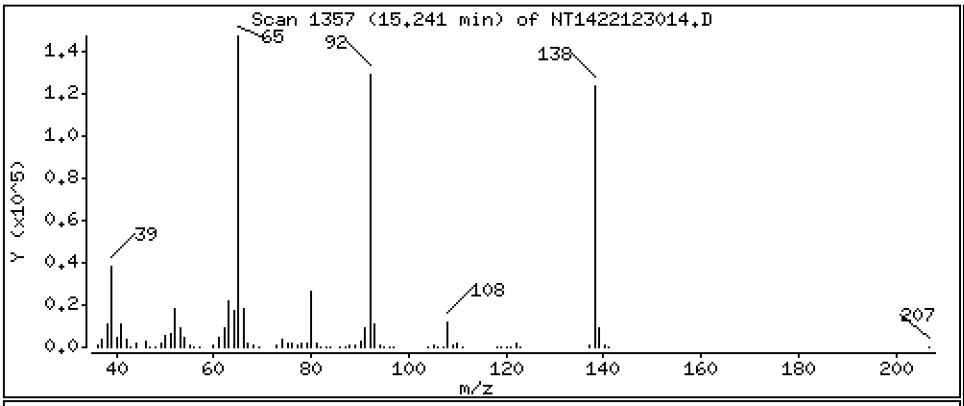
Operator: VTS

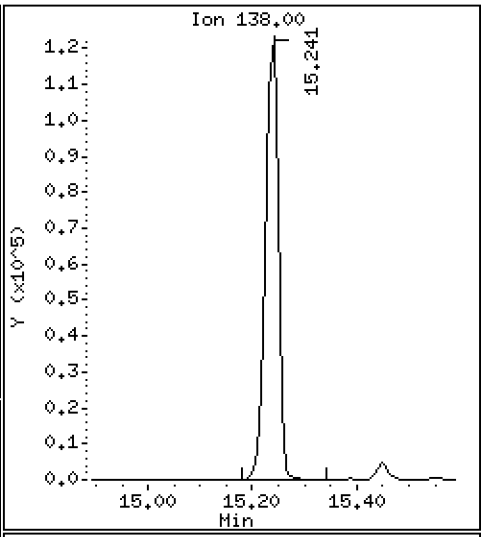
Column phase: ZB-5msi

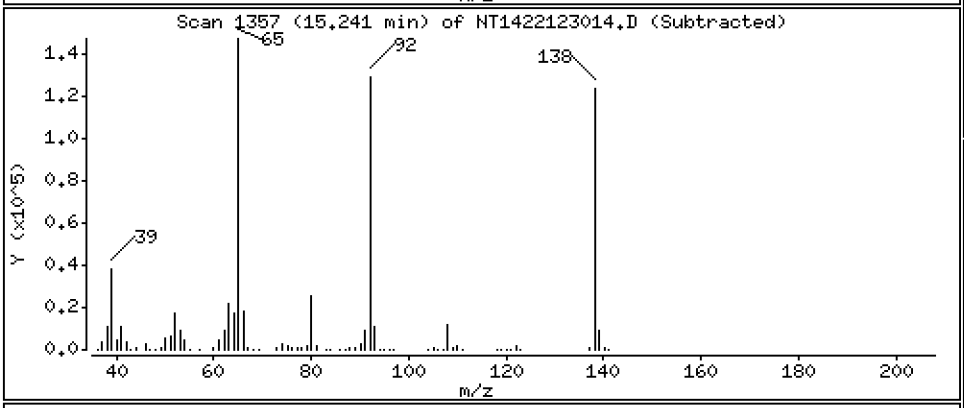
Column diameter: 0.25

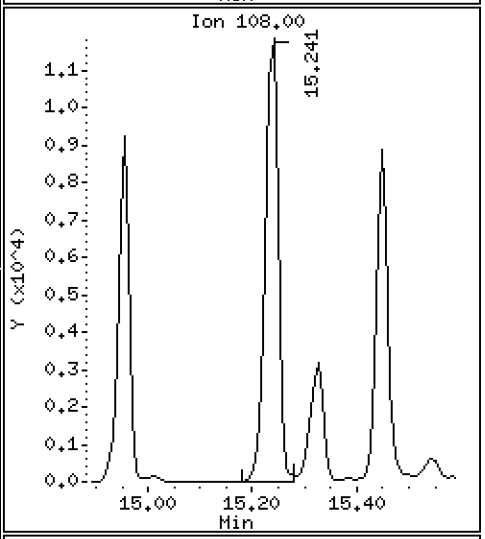
43 3-Nitroaniline

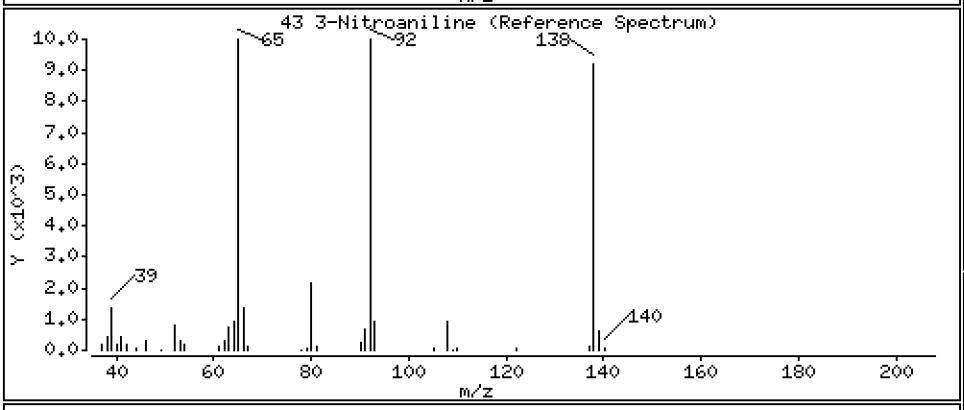
Concentration: 9.918 ug/mL

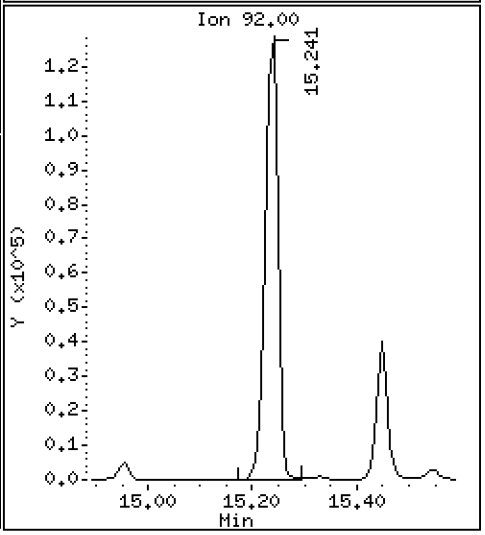


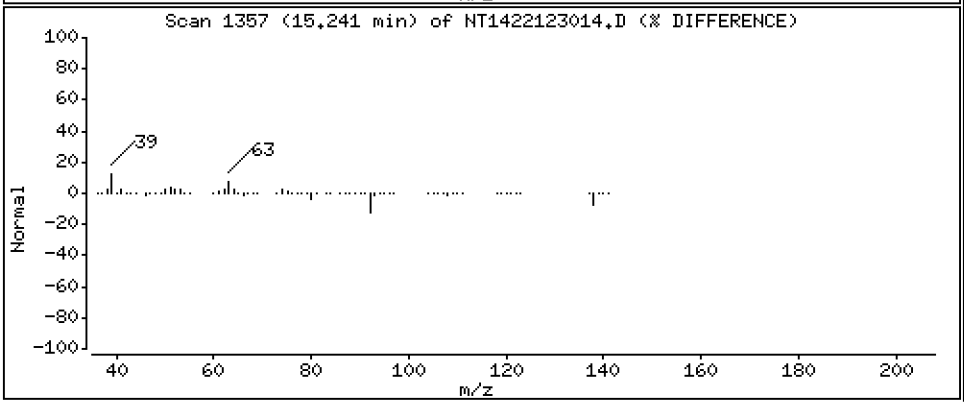












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

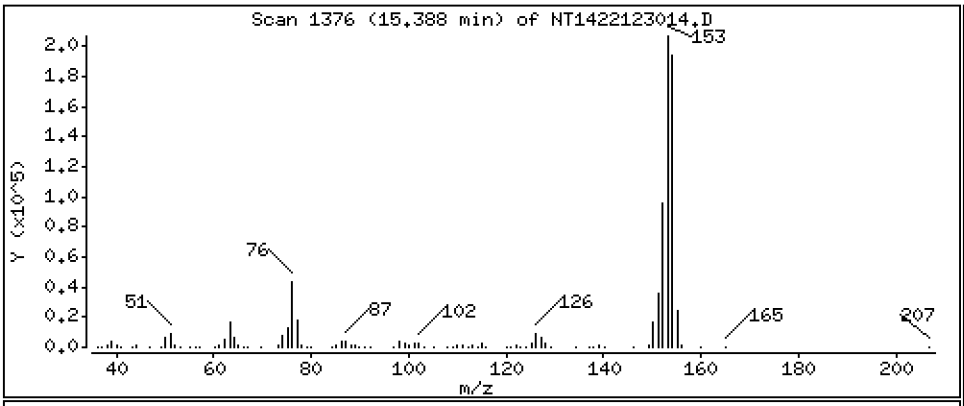
Operator: VTS

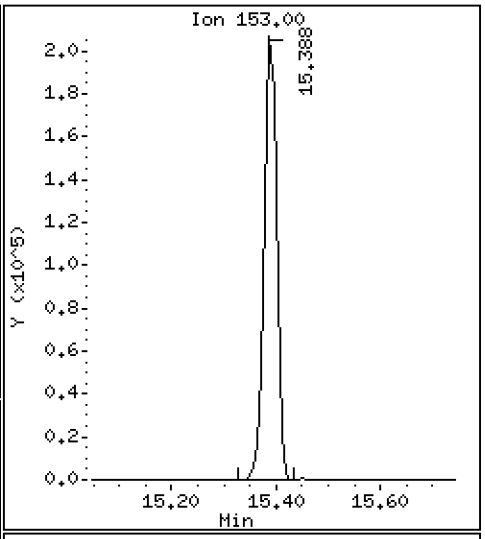
Column phase: ZB-5msi

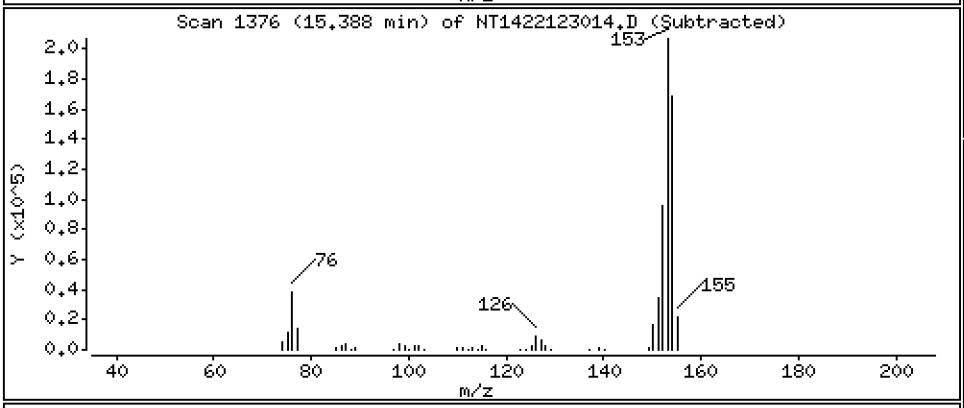
Column diameter: 0.25

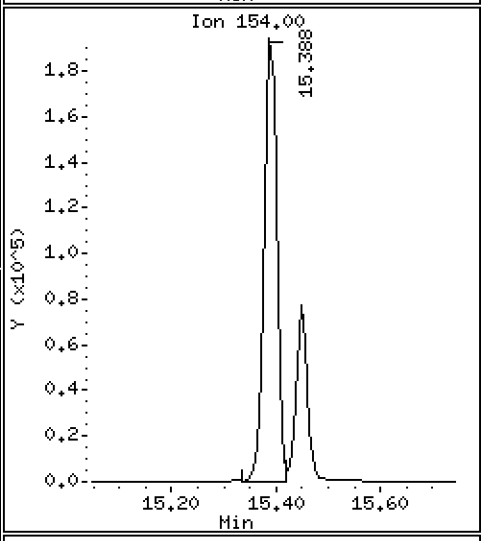
44 Acenaphthene

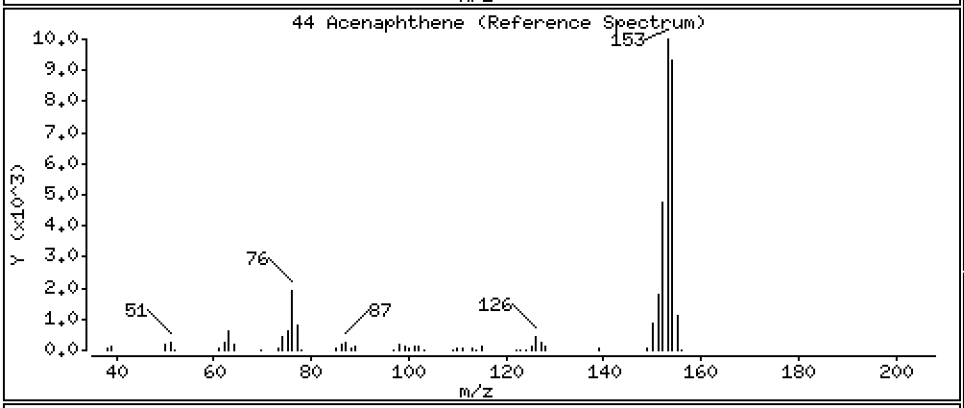
Concentration: 4.613 ug/mL

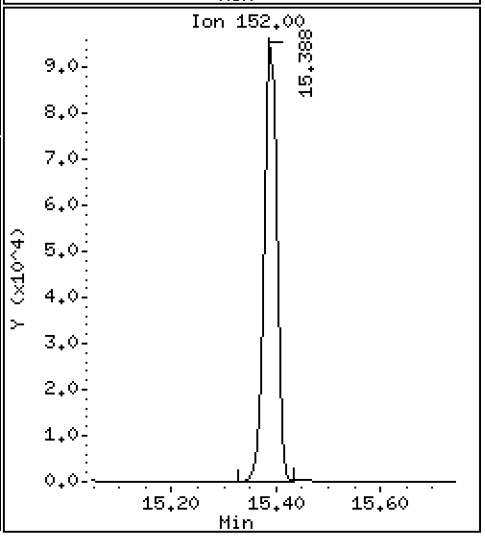


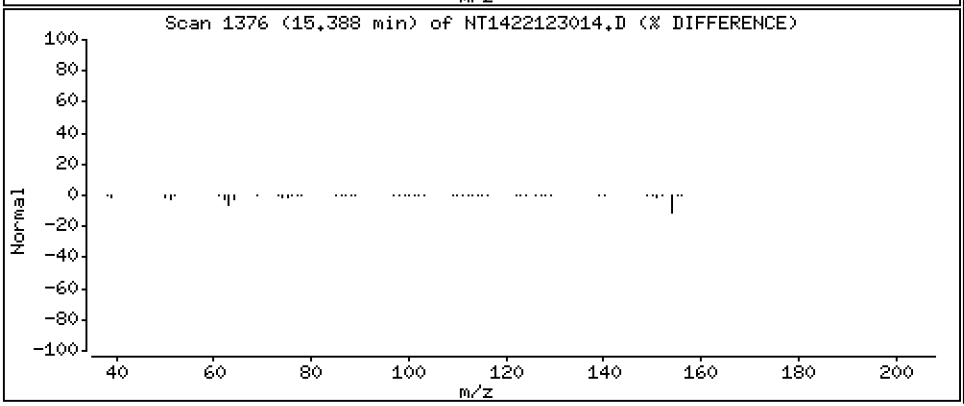












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

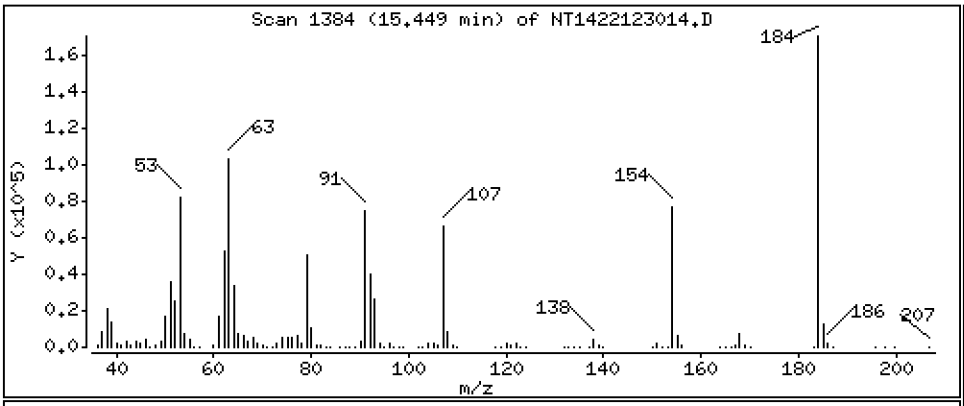
Operator: VTS

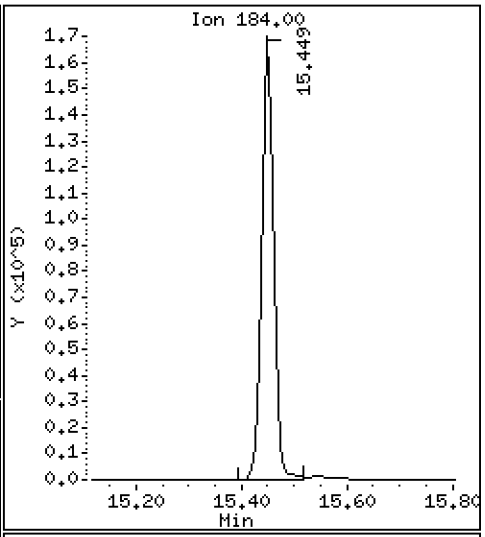
Column phase: ZB-5msi

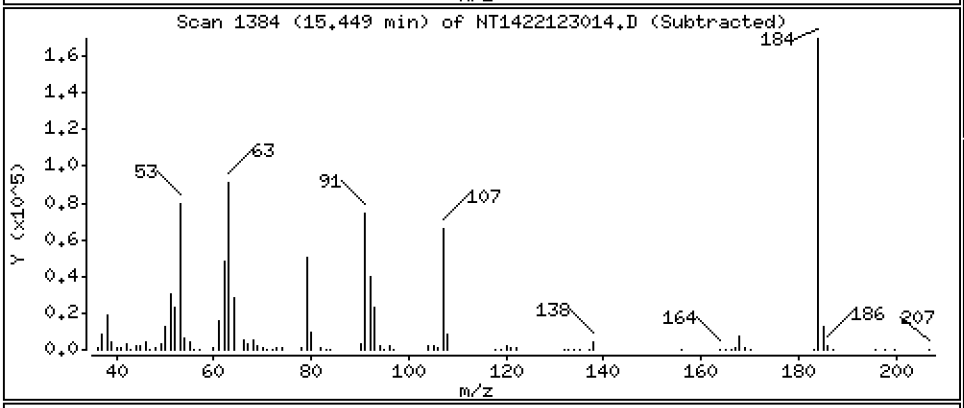
Column diameter: 0.25

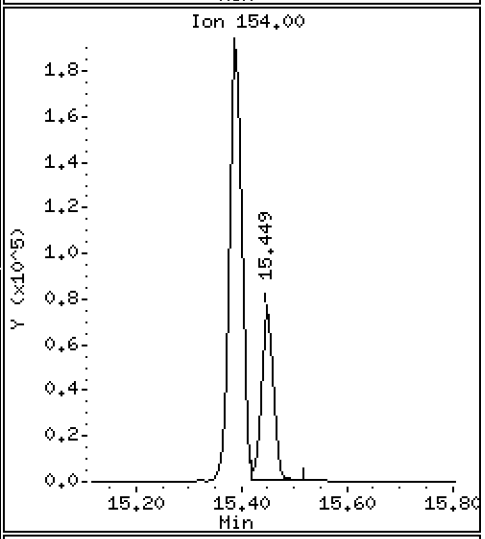
45 2,4-Dinitrophenol

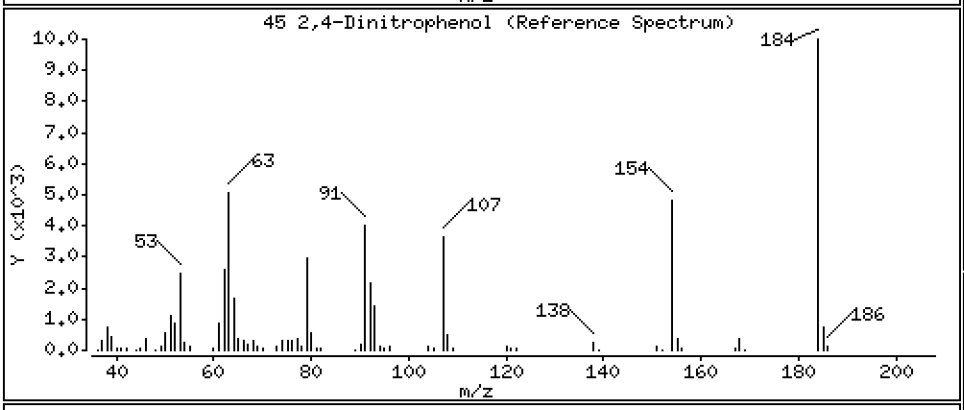
Concentration: 17.62 ug/mL

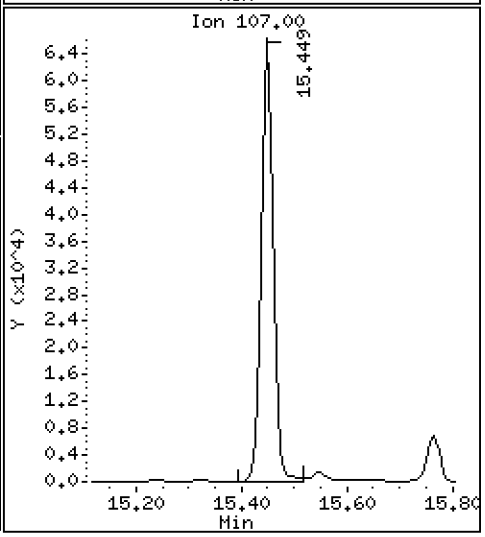


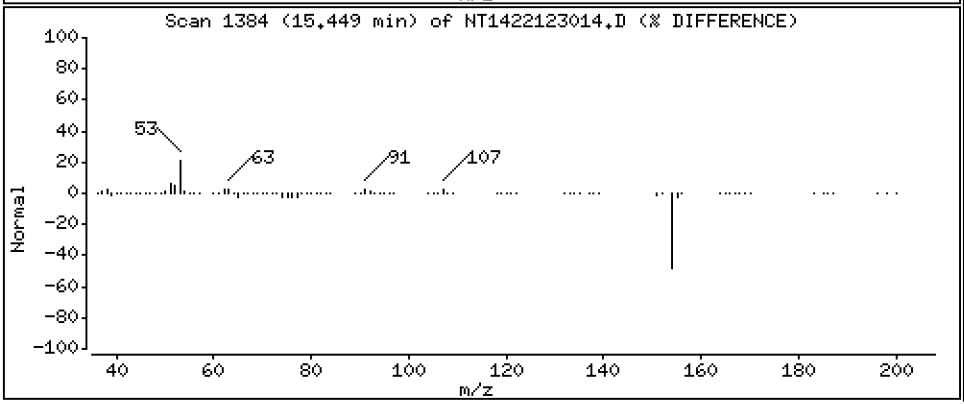












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

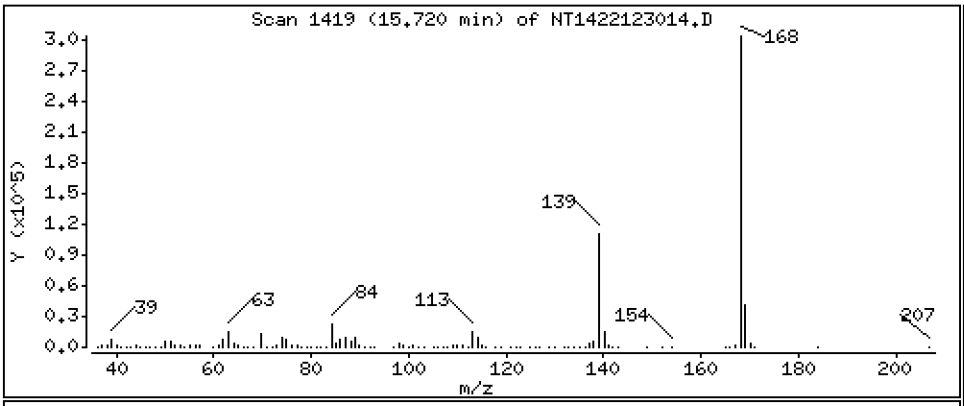
Operator: VTS

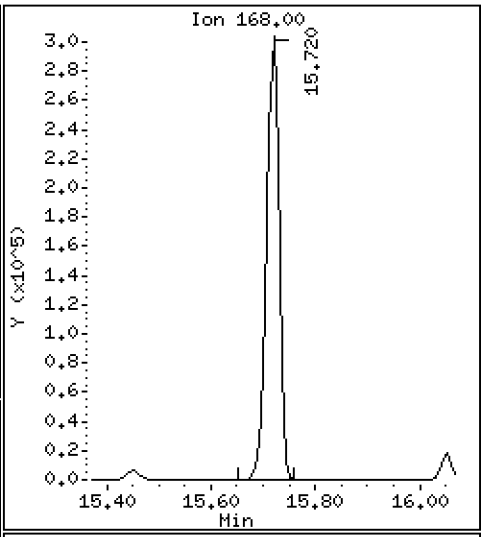
Column phase: ZB-5msi

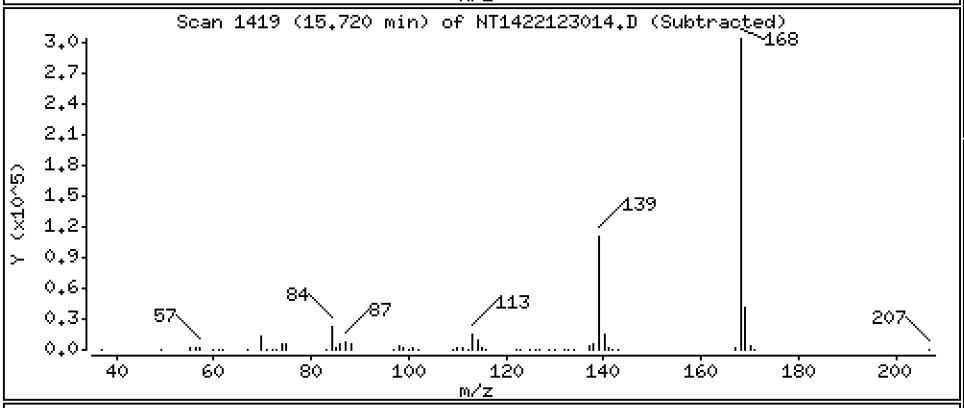
Column diameter: 0.25

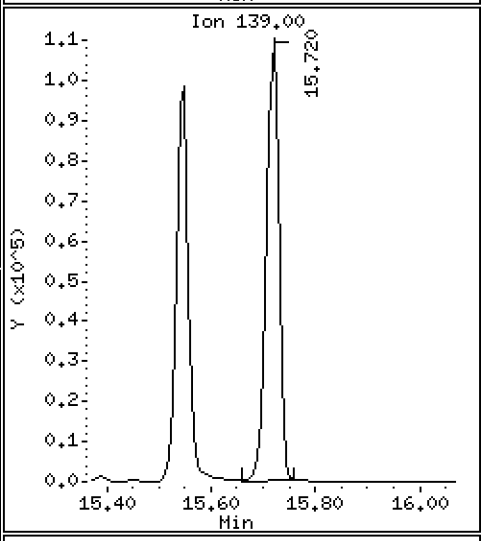
46 Dibenzofuran

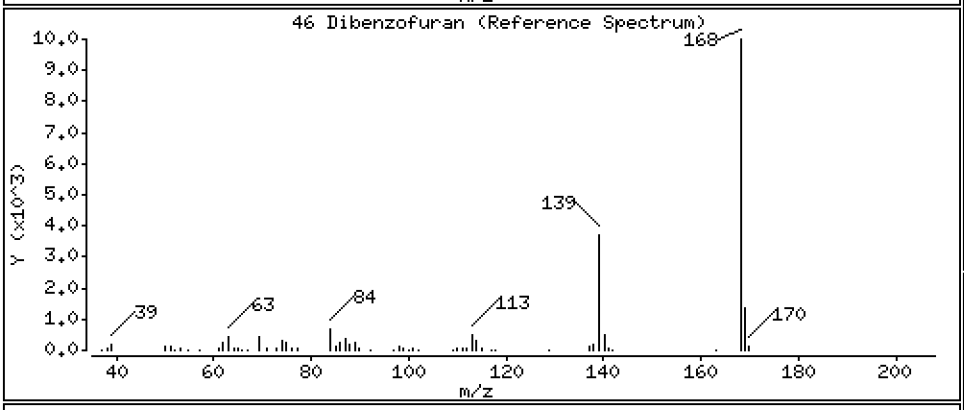
Concentration: 4.547 ug/mL

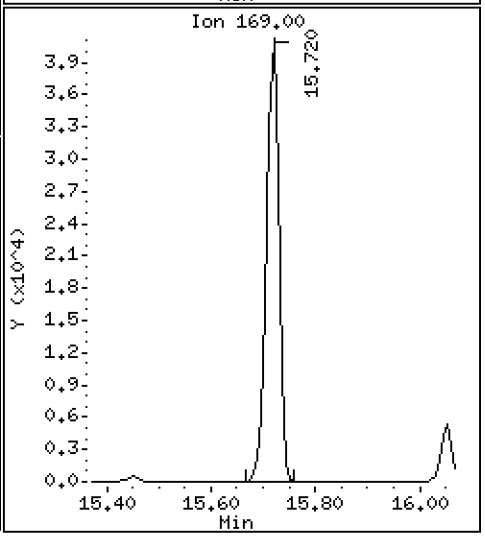


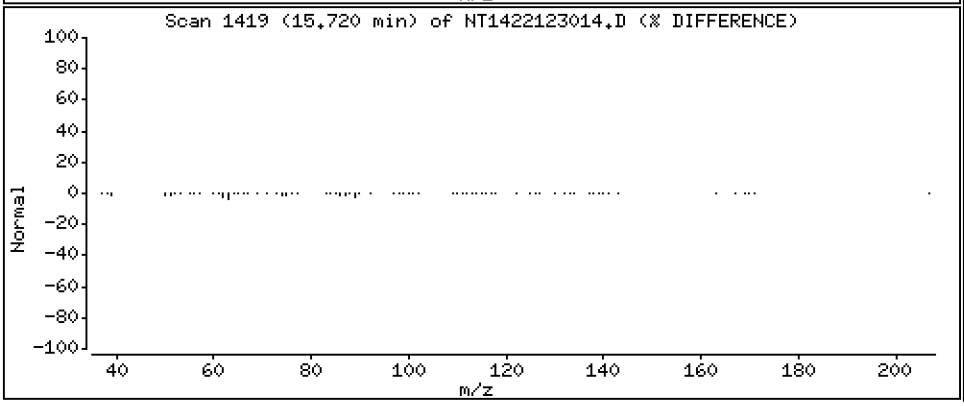












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

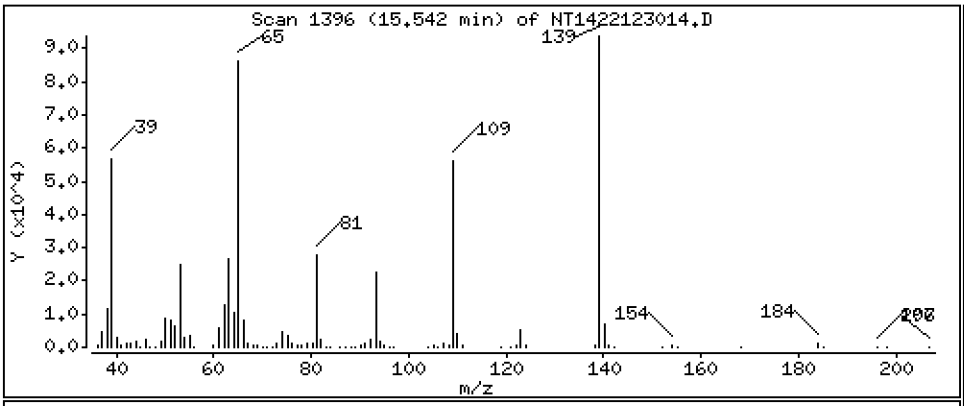
Operator: VTS

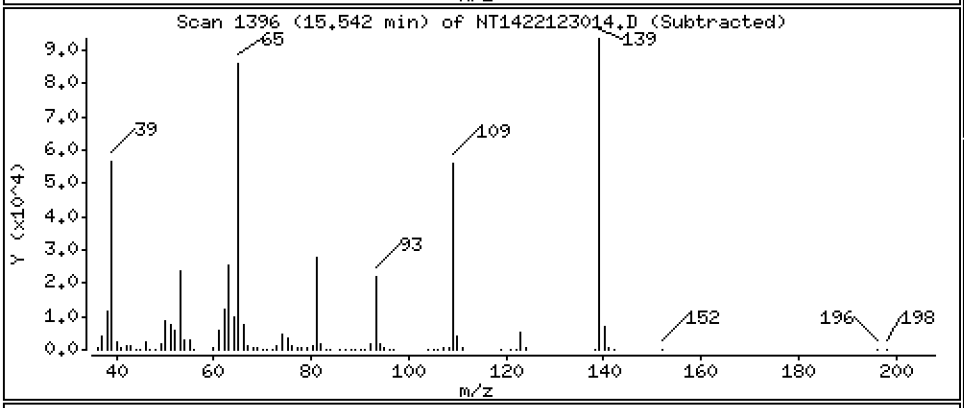
Column phase: ZB-5msi

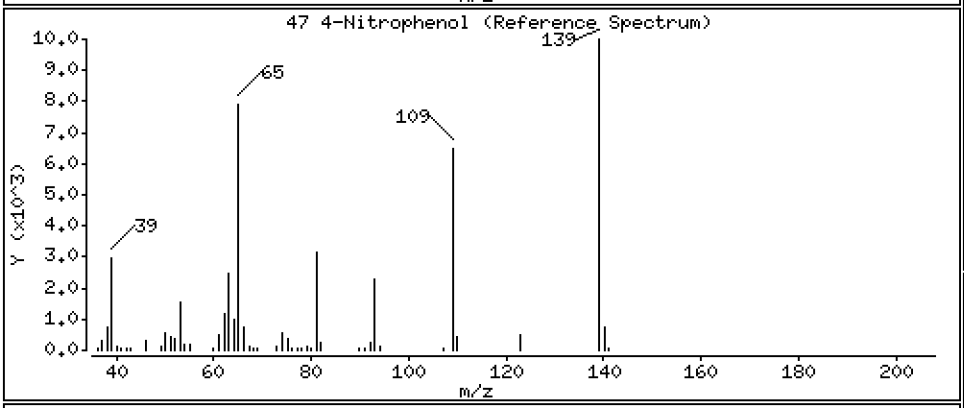
Column diameter: 0.25

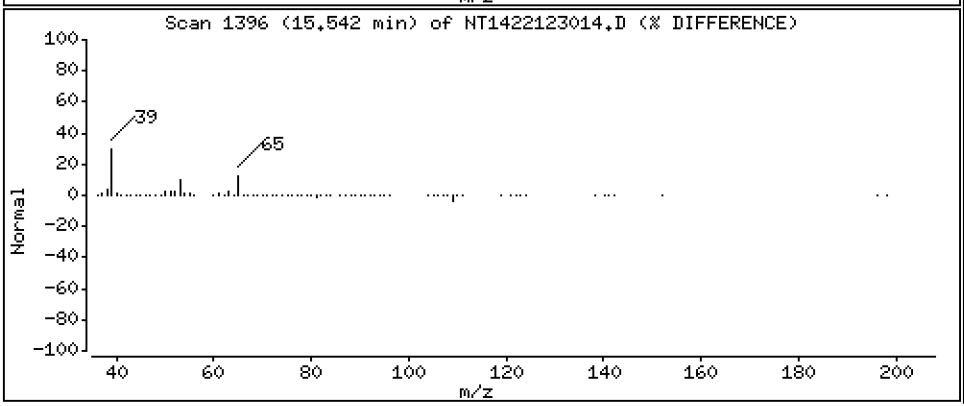
47 4-Nitrophenol

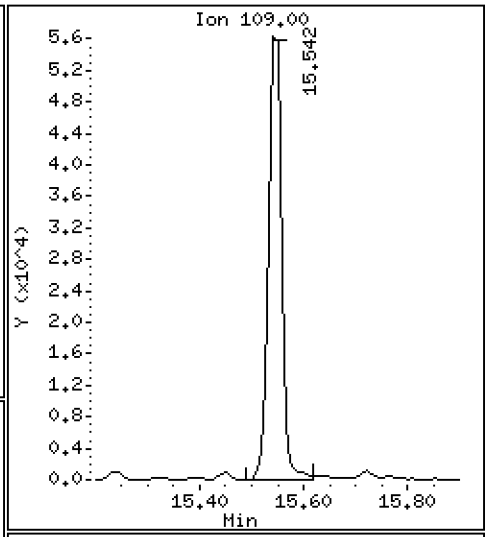
Concentration: 9.441 ug/mL

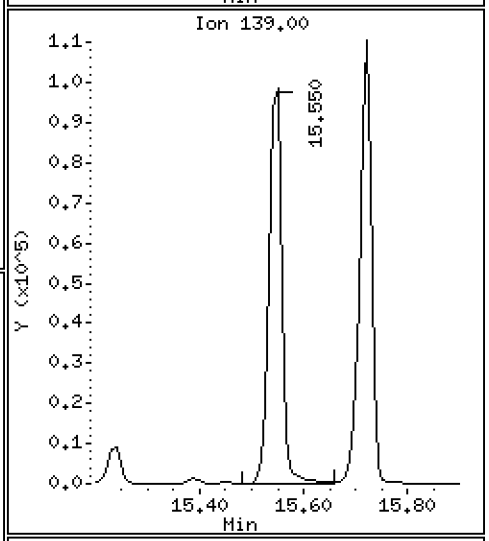


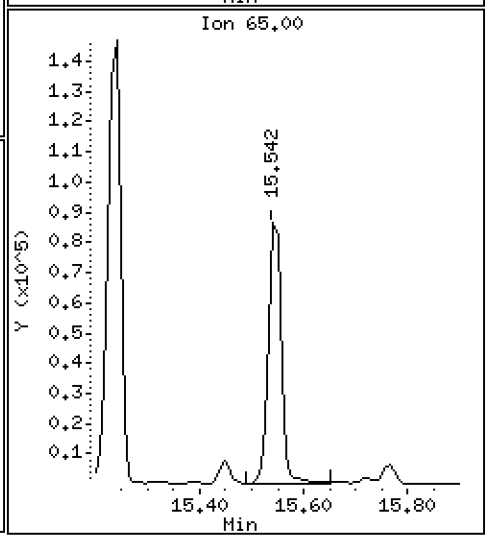












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

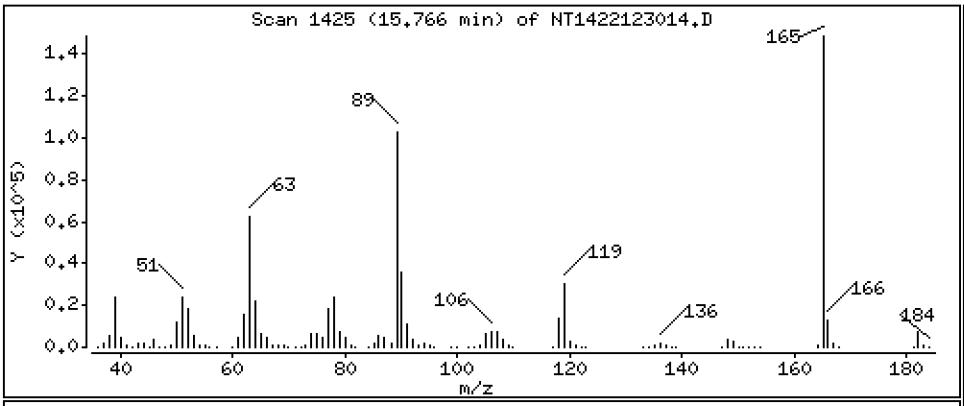
Operator: VTS

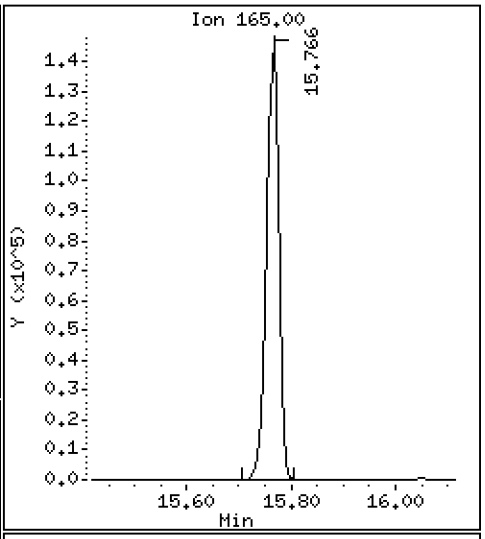
Column phase: ZB-5msi

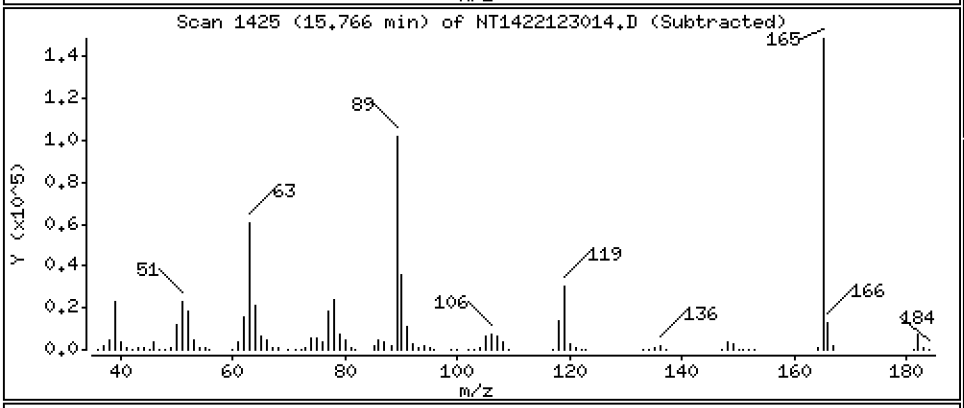
Column diameter: 0.25

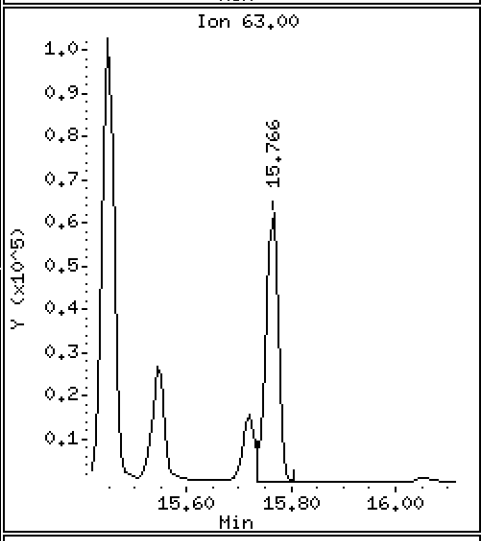
48 2,4-Dinitrotoluene

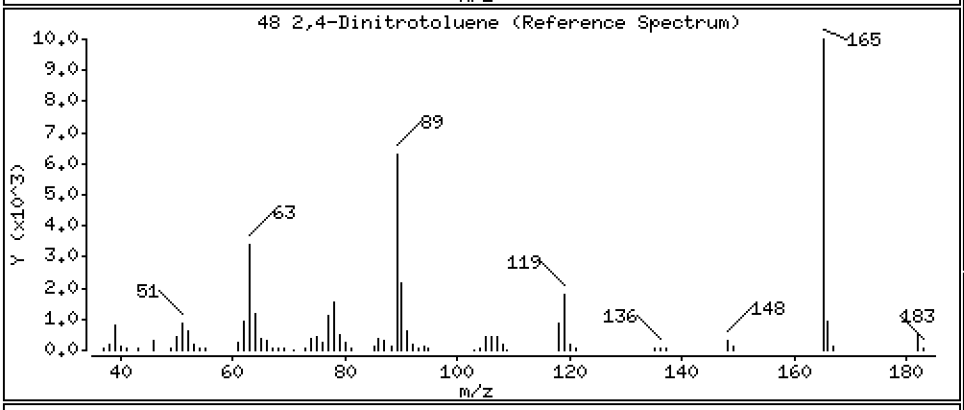
Concentration: 9.887 ug/mL

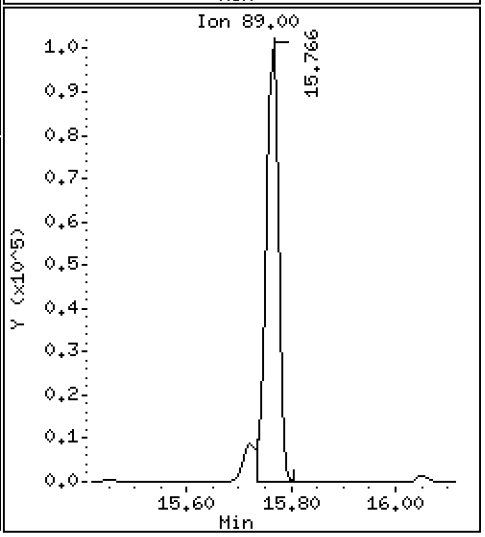


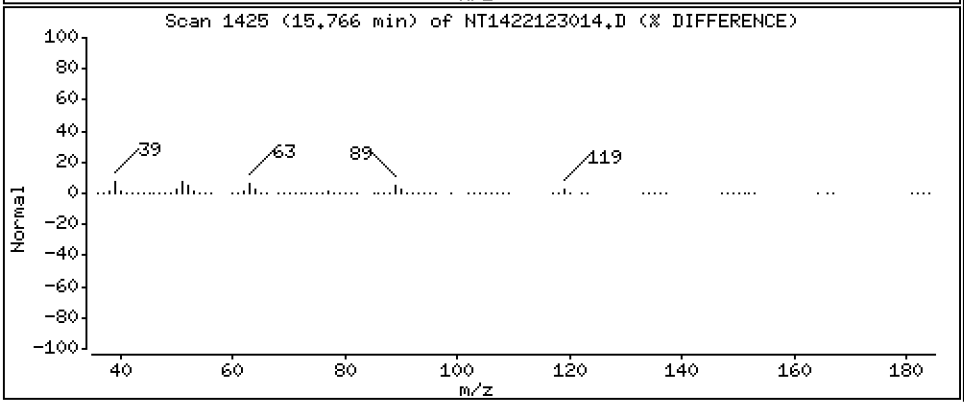












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

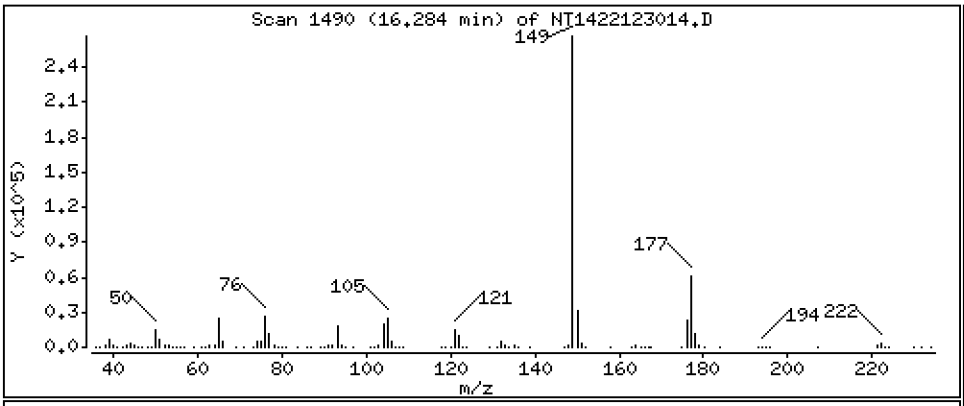
Operator: VTS

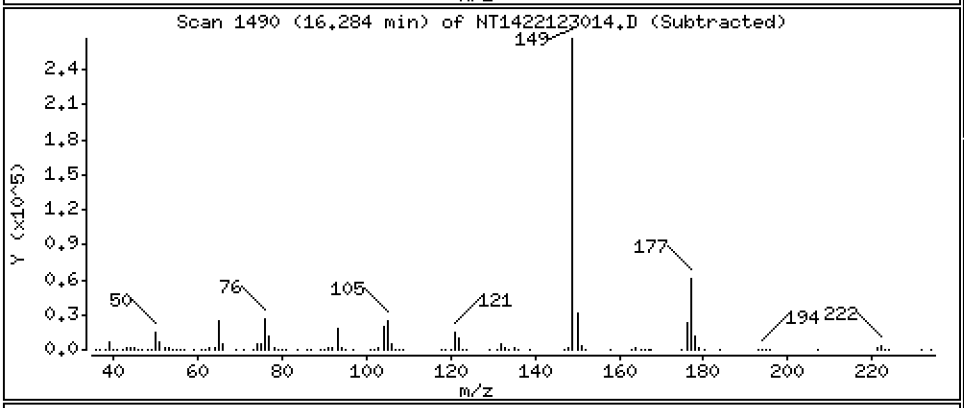
Column phase: ZB-5msi

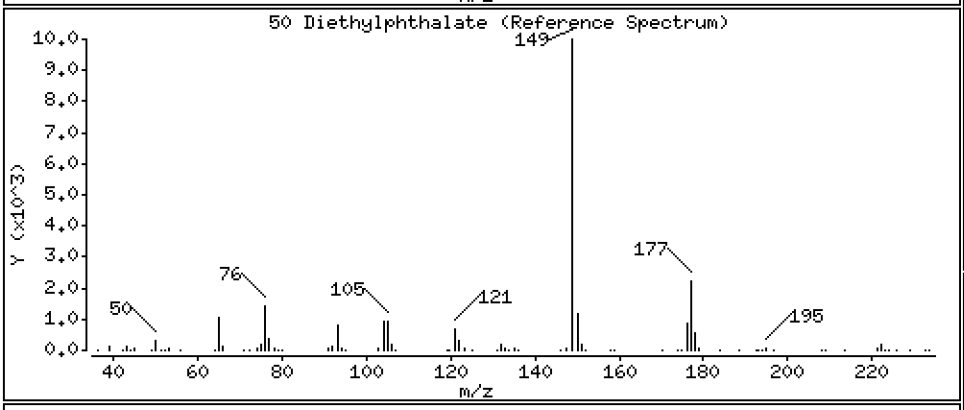
Column diameter: 0.25

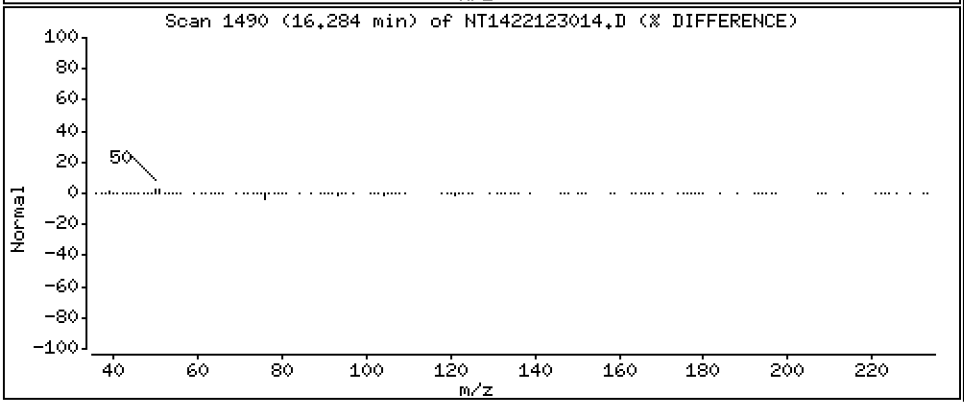
50 Diethylphthalate

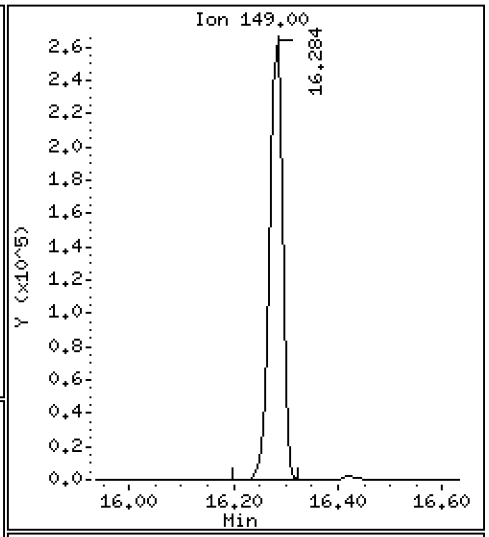
Concentration: 4.968 ug/mL

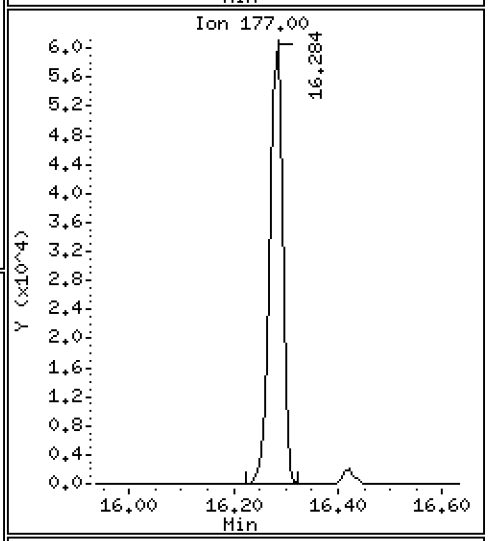


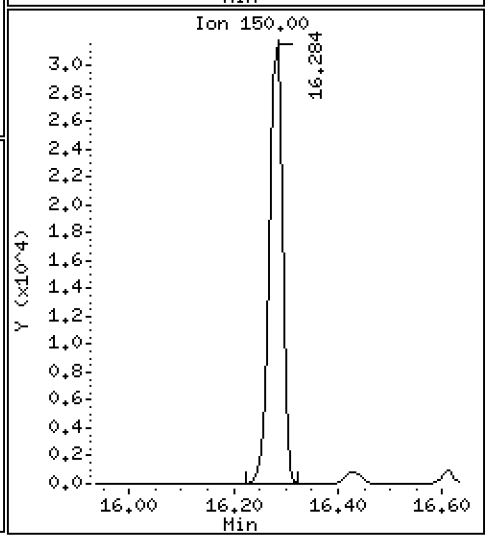












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

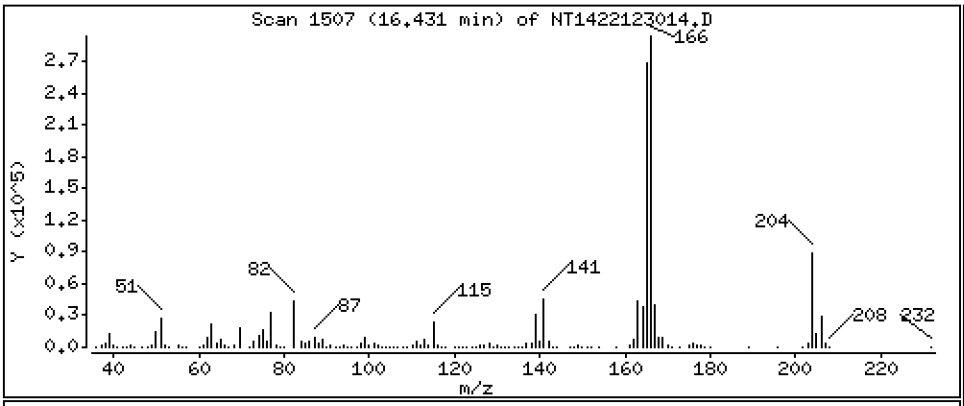
Operator: VTS

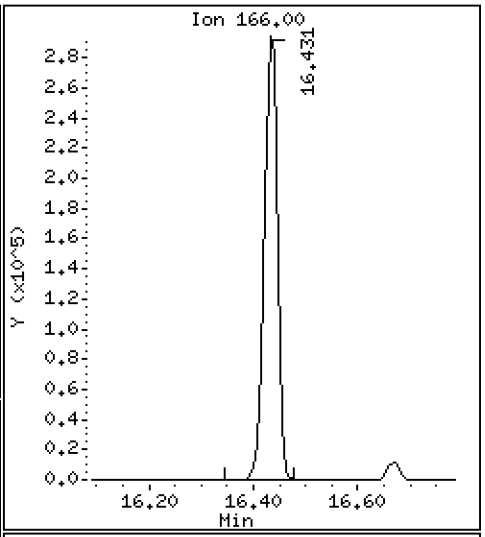
Column phase: ZB-5msi

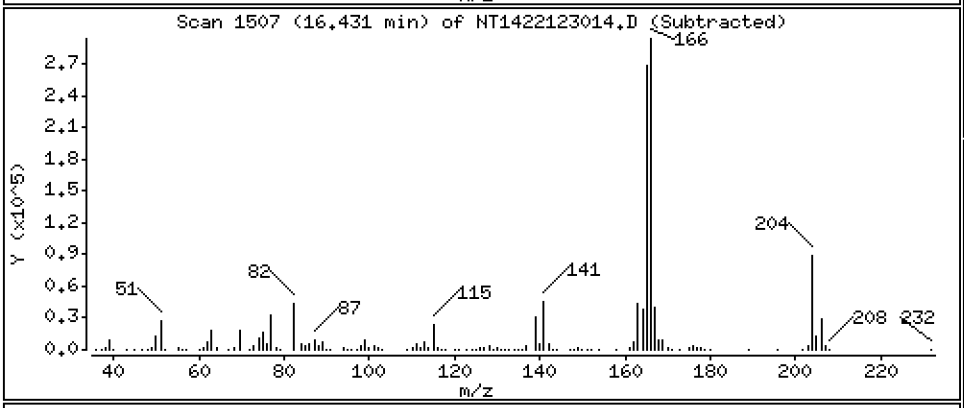
Column diameter: 0.25

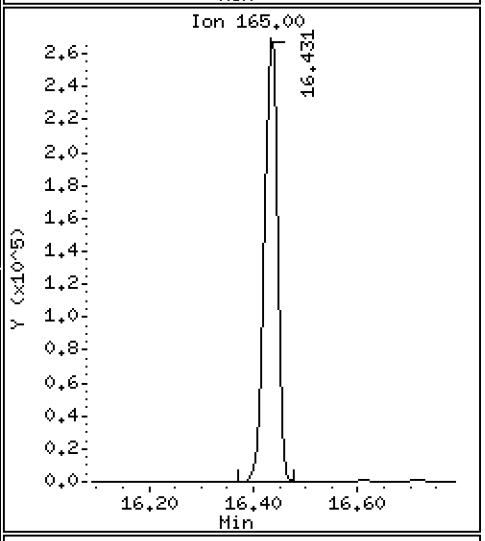
49 Fluorene

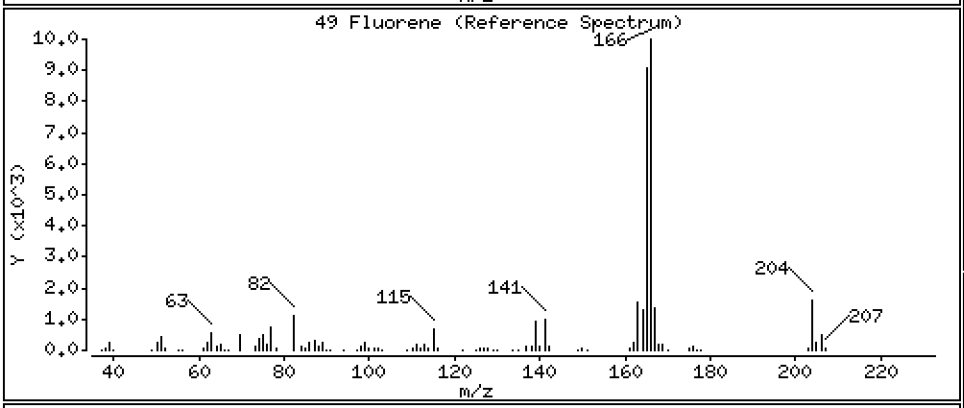
Concentration: 4.940 ug/mL

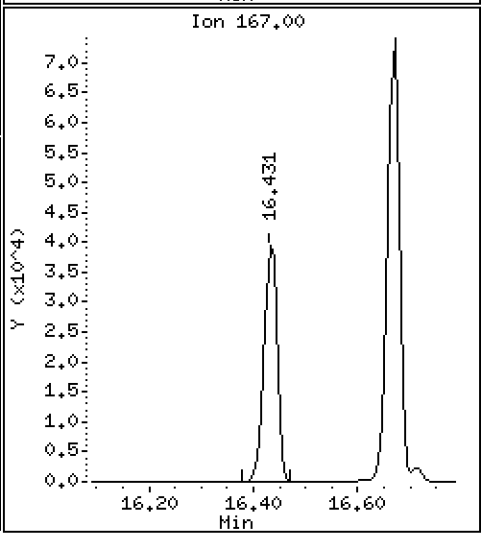


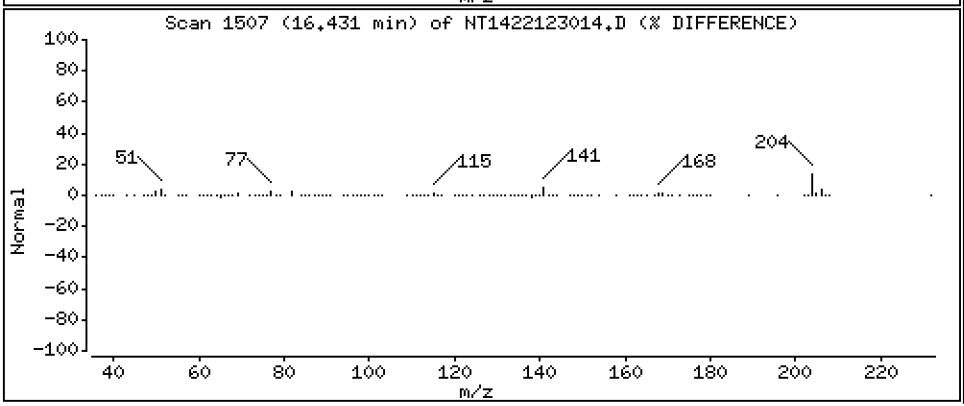












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

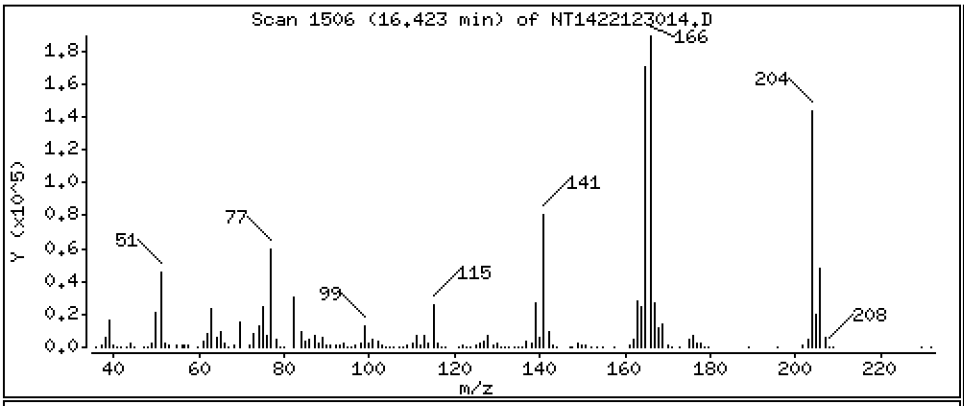
Operator: VTS

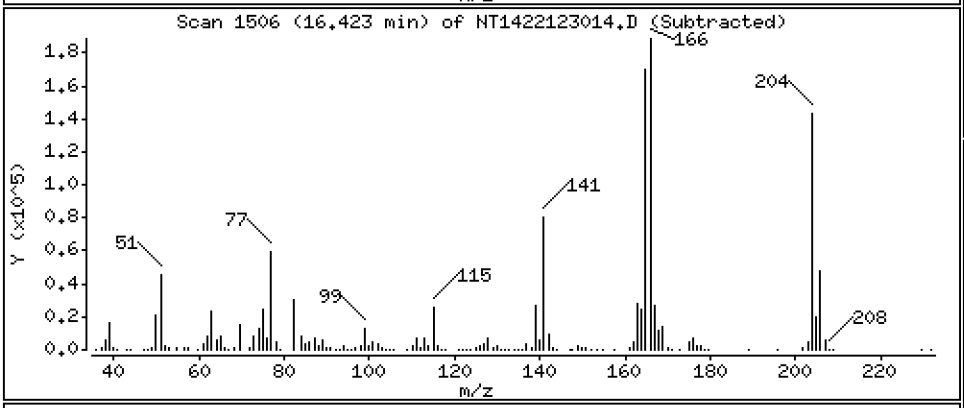
Column phase: ZB-5msi

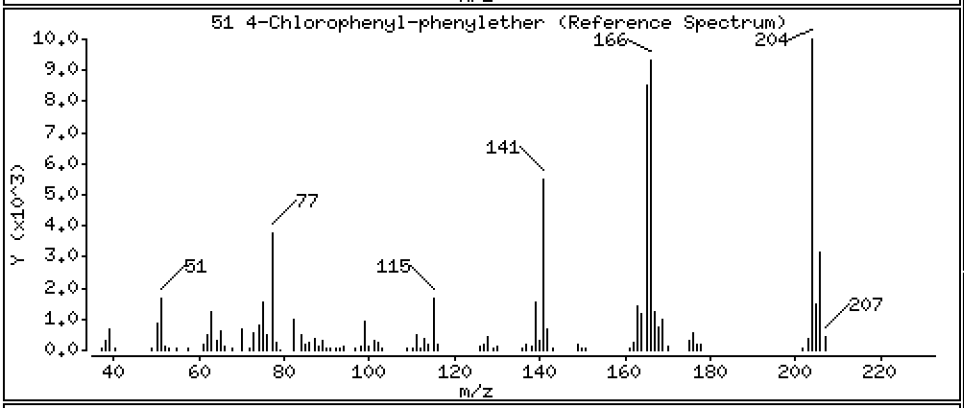
Column diameter: 0.25

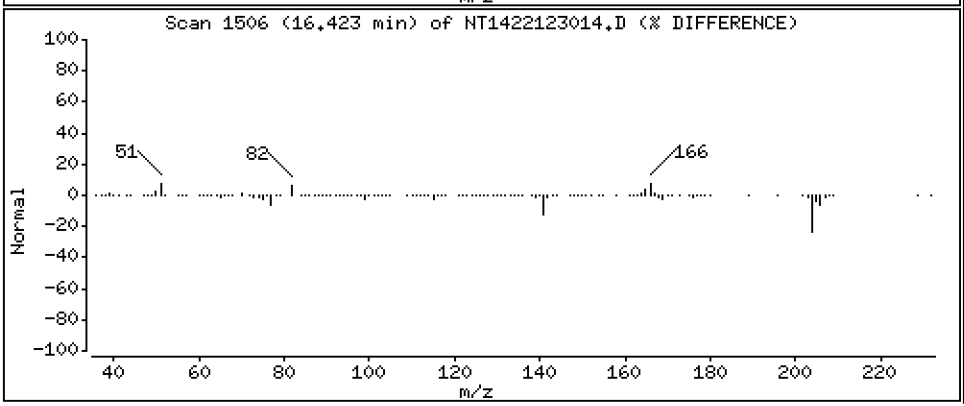
51 4-Chlorophenyl-phenylether

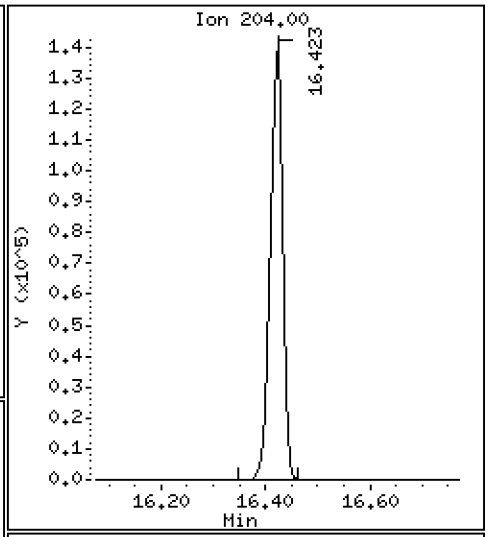
Concentration: 4.666 ug/mL

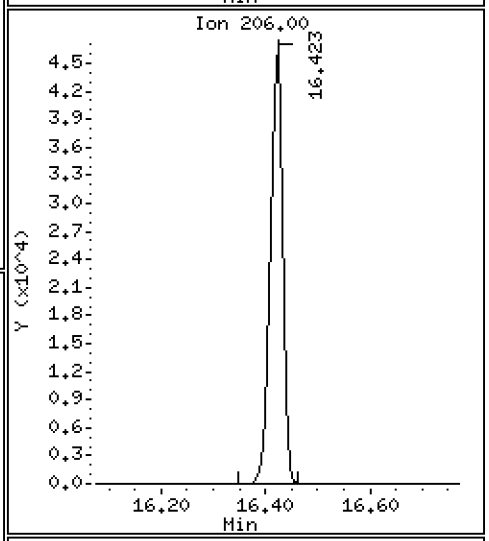


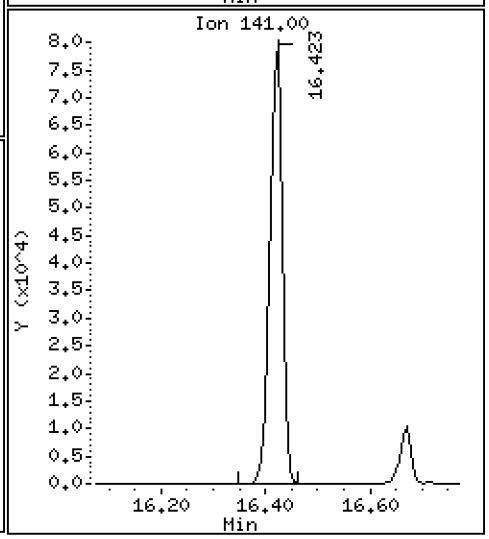












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

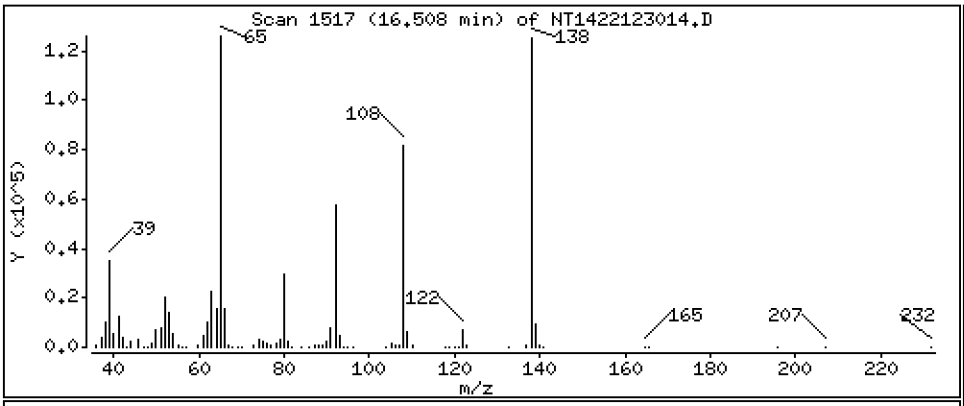
Operator: VTS

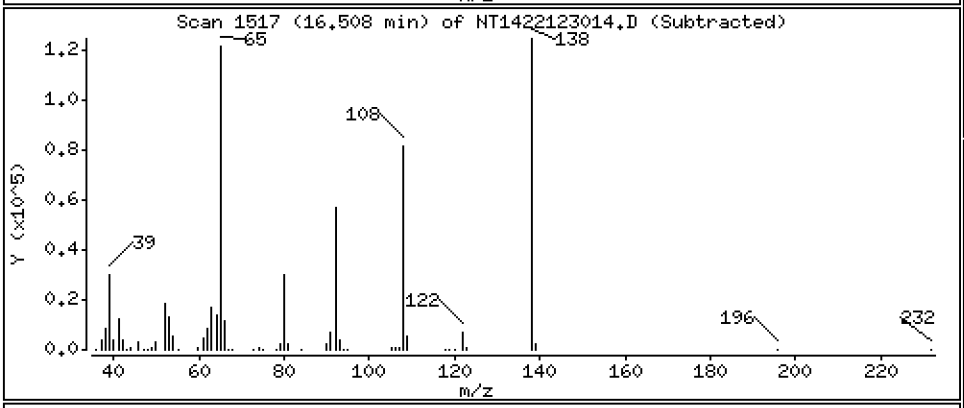
Column phase: ZB-5msi

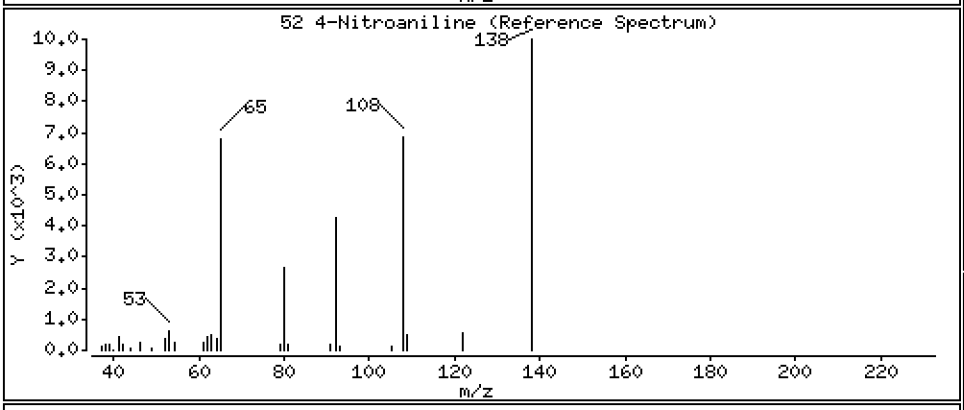
Column diameter: 0.25

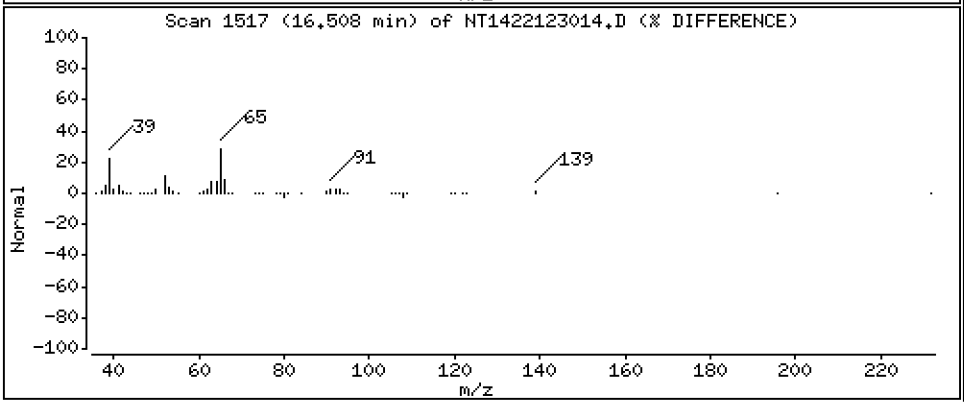
52 4-Nitroaniline

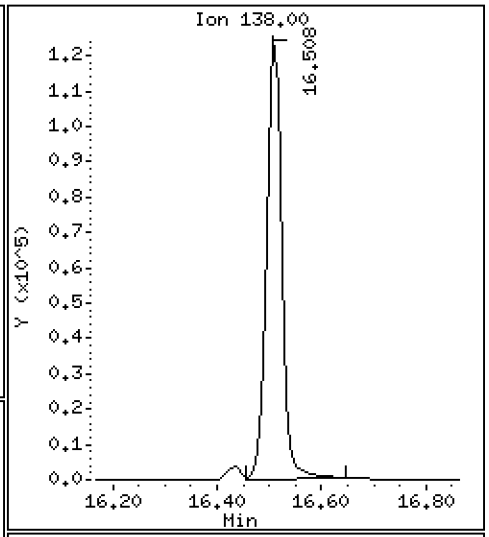
Concentration: 9.616 ug/mL

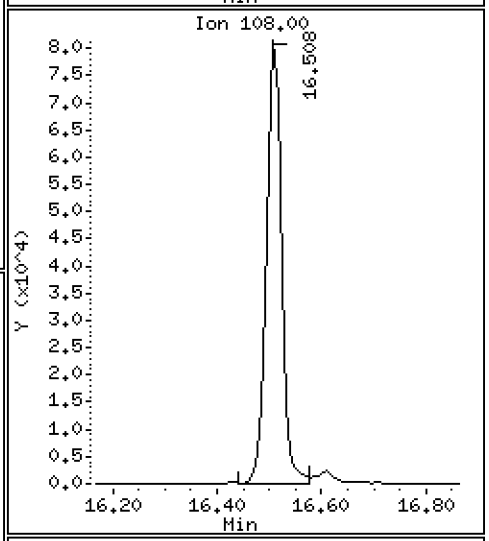


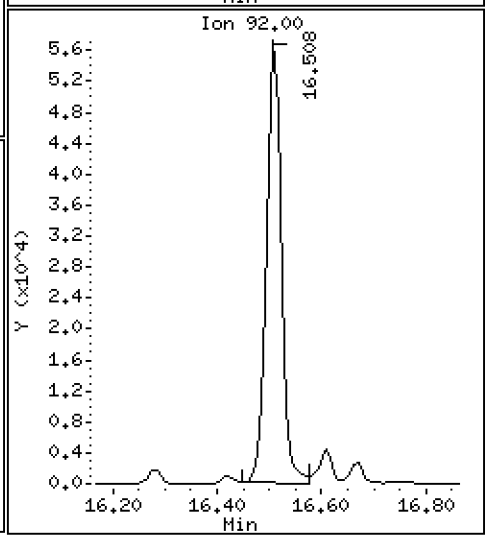












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

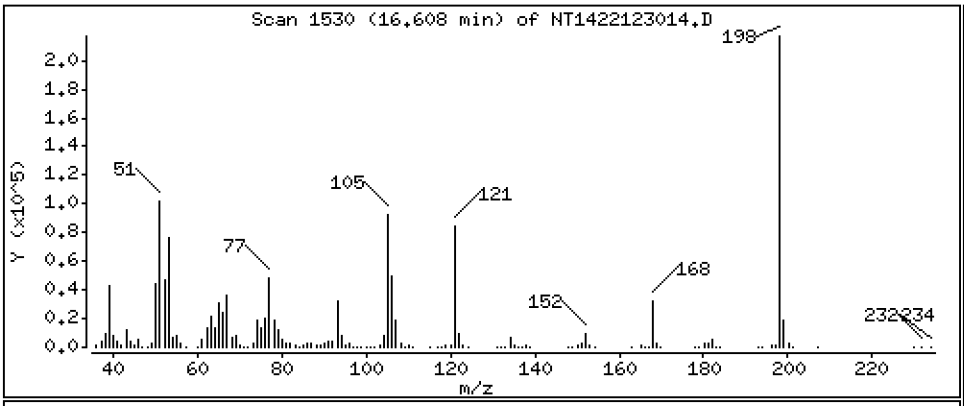
Operator: VTS

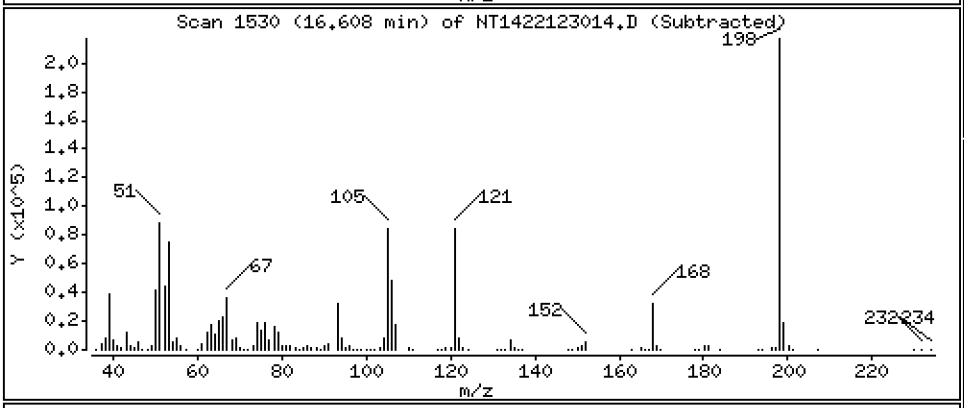
Column phase: ZB-5msi

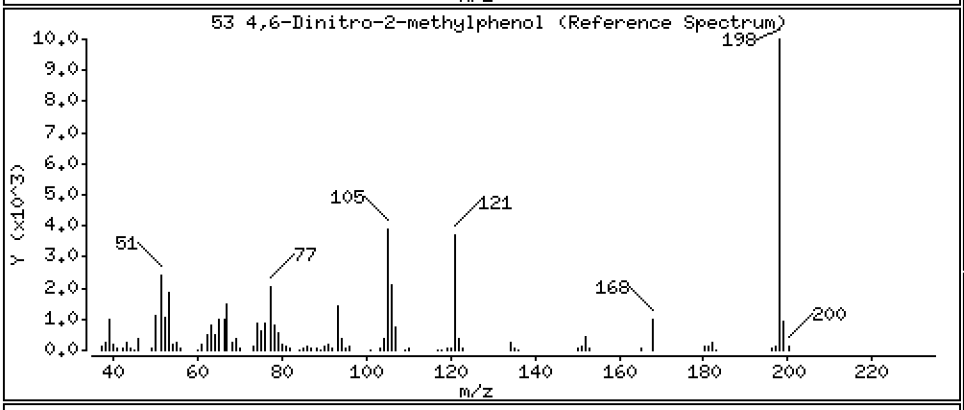
Column diameter: 0.25

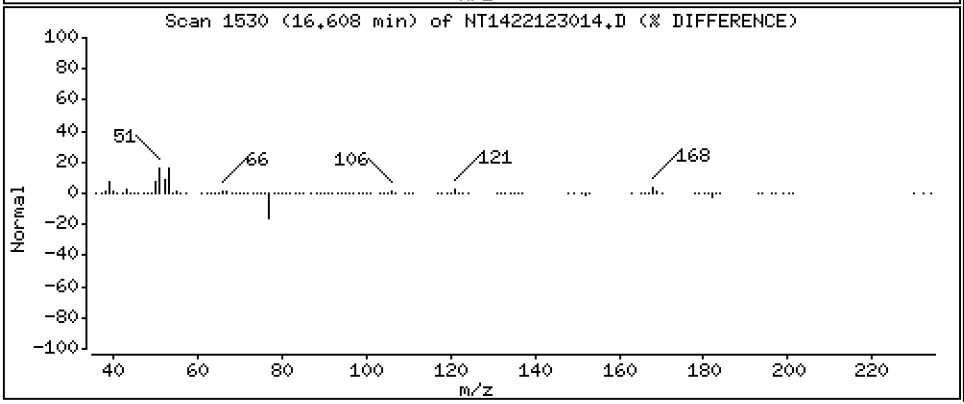
53 4,6-Dinitro-2-methylphenol

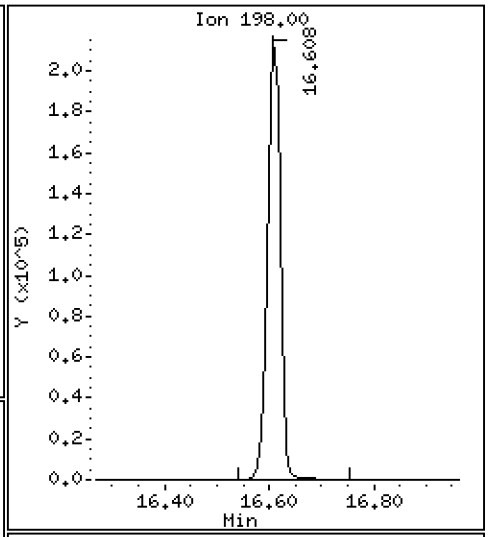
Concentration: 19.19 ug/mL

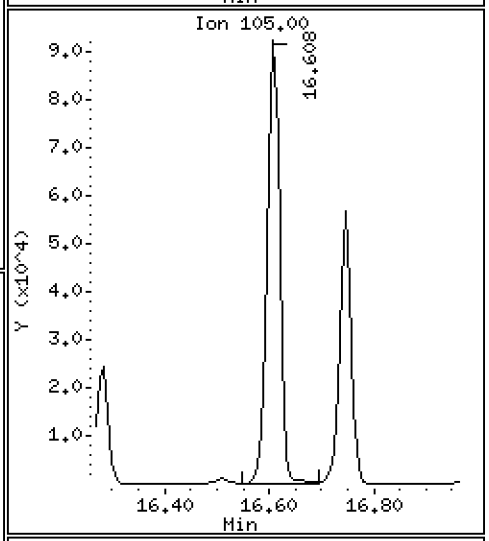


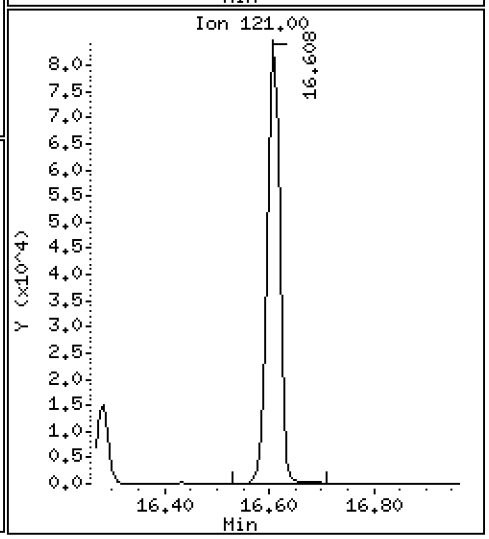












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

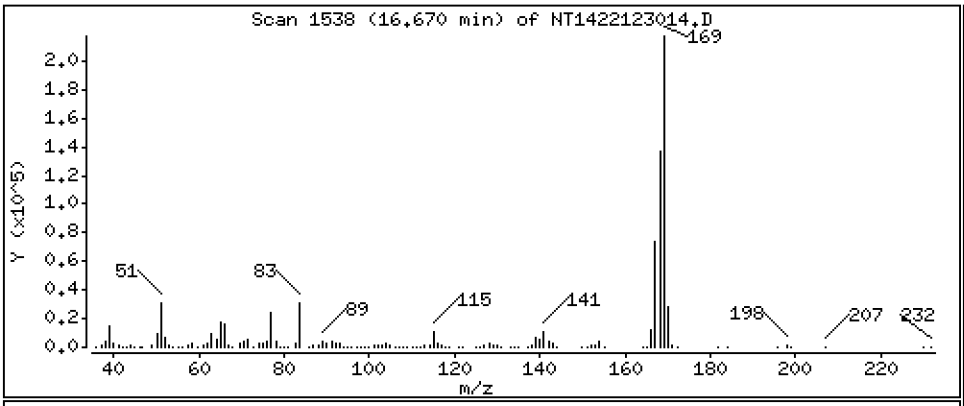
Operator: VTS

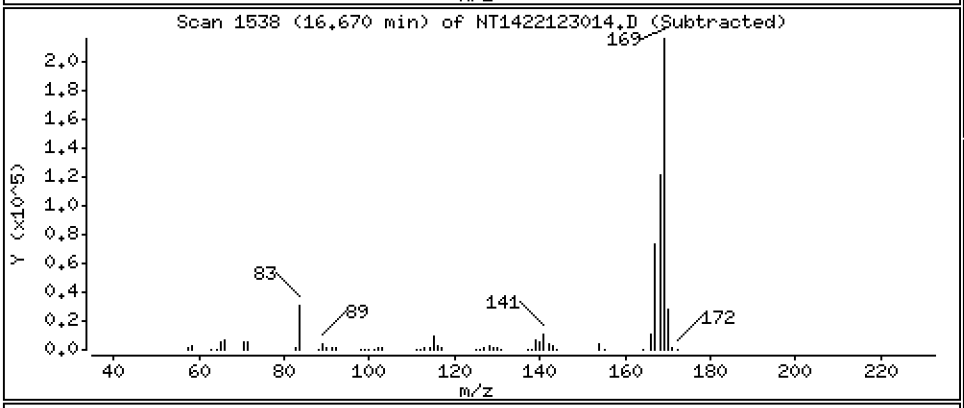
Column phase: ZB-5msi

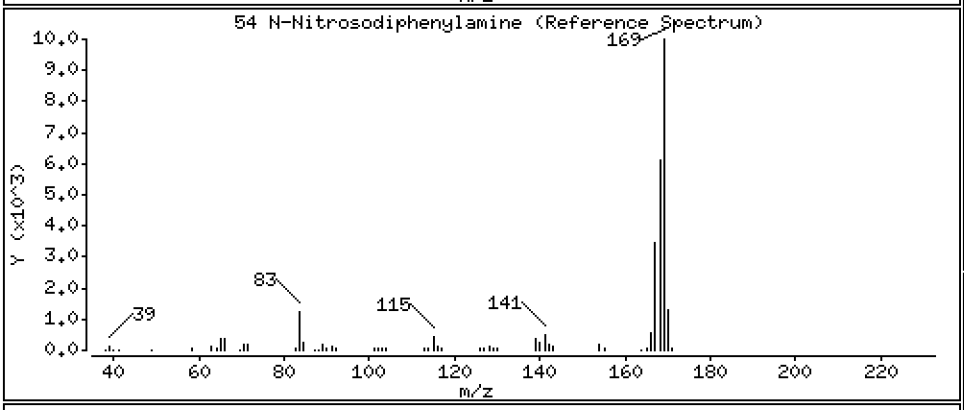
Column diameter: 0.25

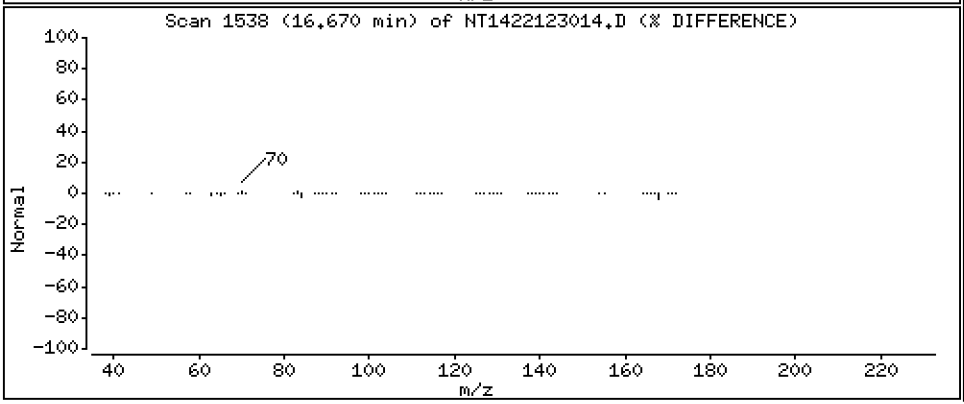
54 N-Nitrosodiphenylamine

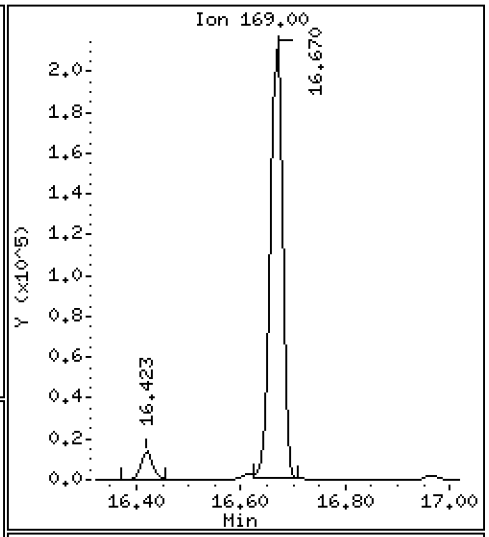
Concentration: 4.619 ug/mL

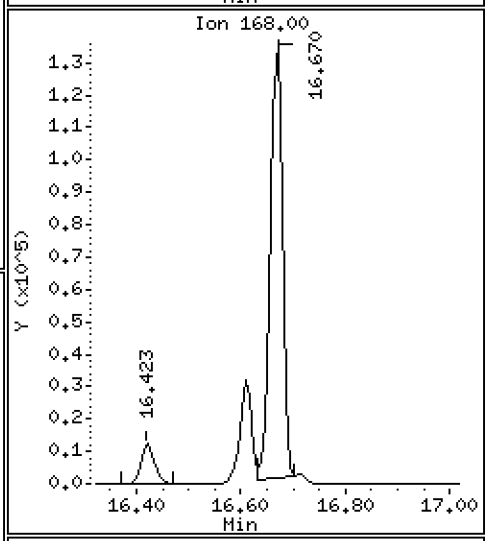


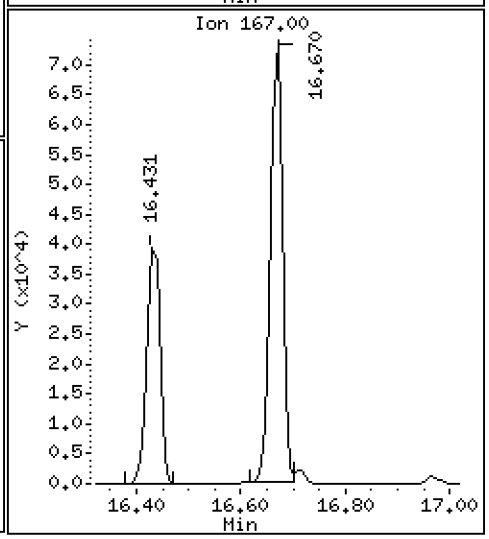












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

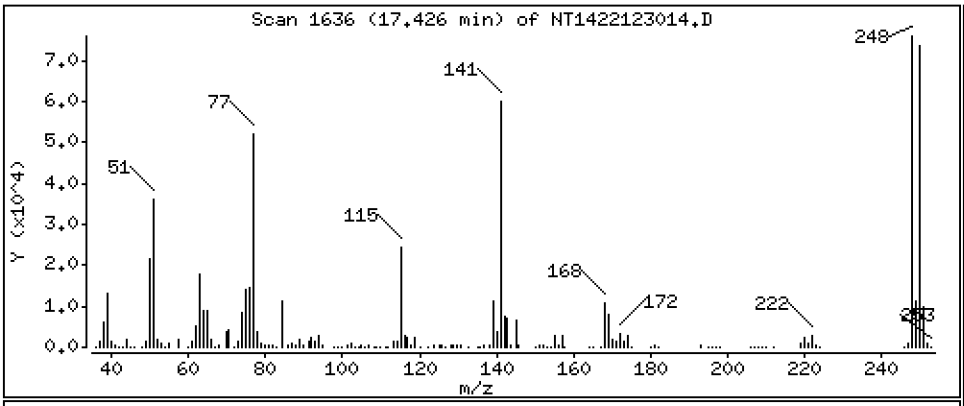
Operator: VTS

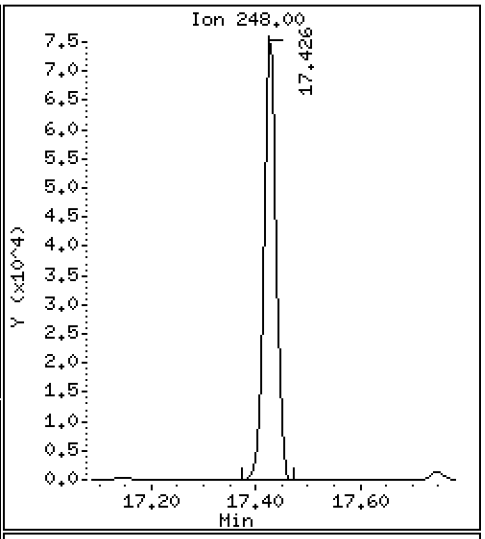
Column phase: ZB-5msi

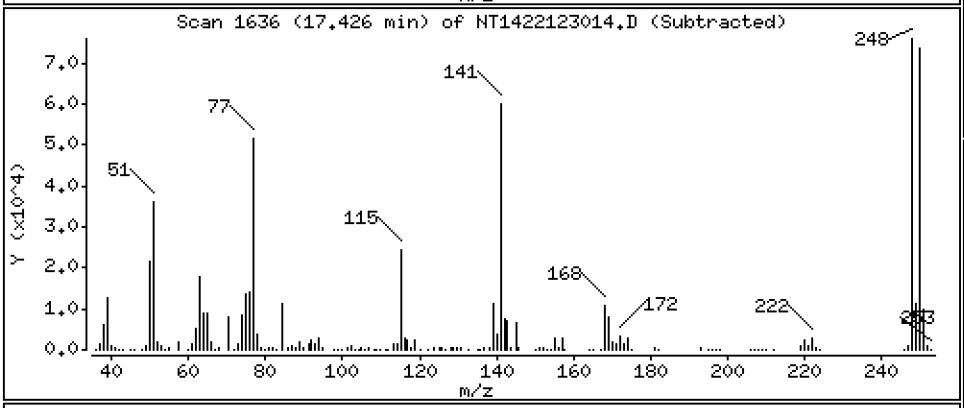
Column diameter: 0.25

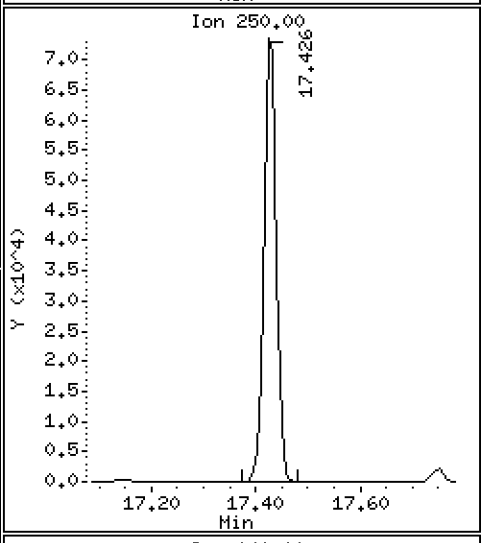
56 4-Bromophenyl-phenylether

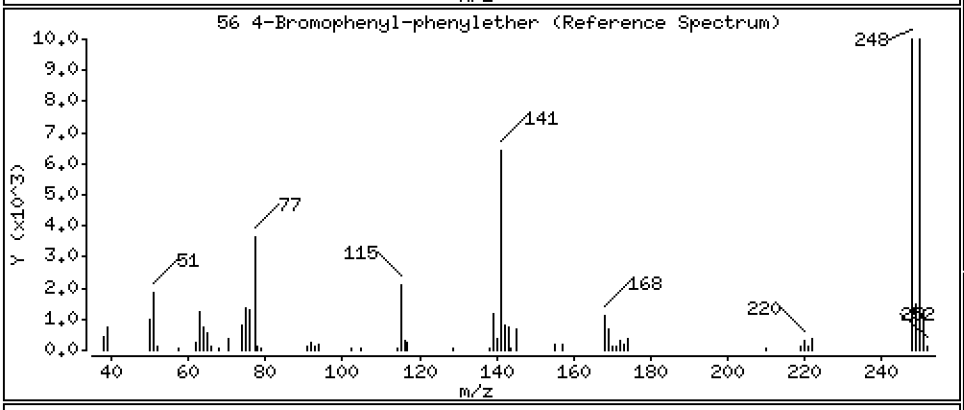
Concentration: 4.600 ug/mL

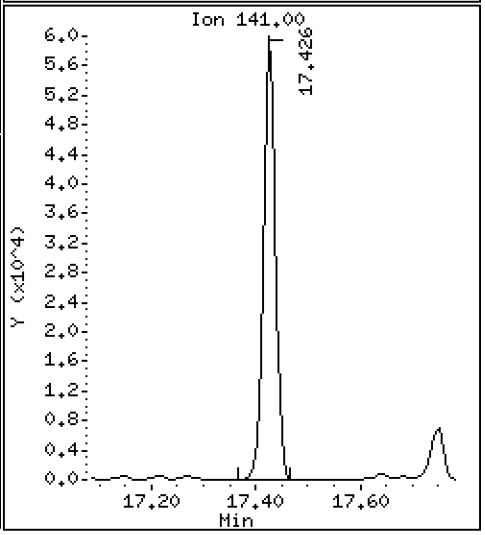


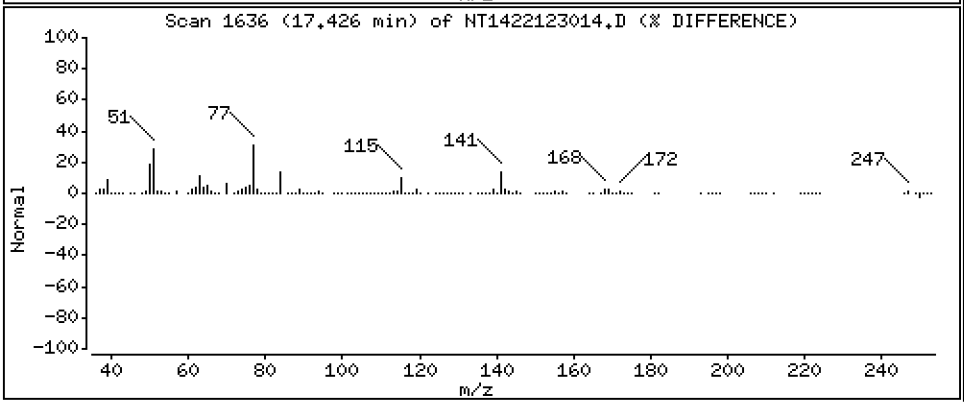












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

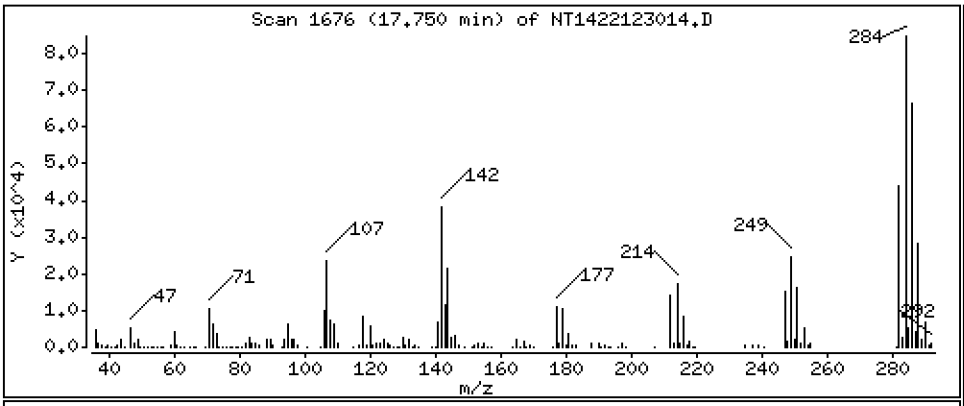
Operator: VTS

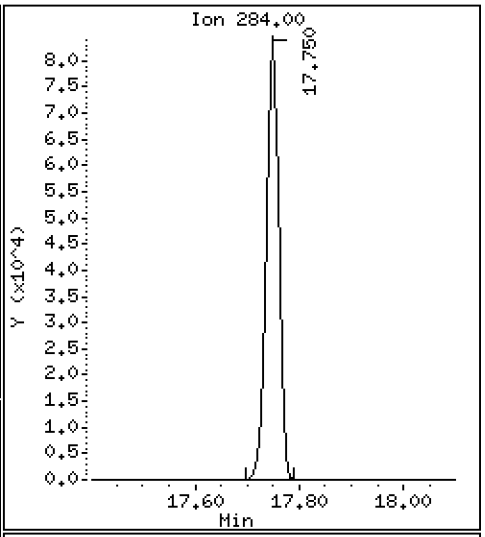
Column phase: ZB-5msi

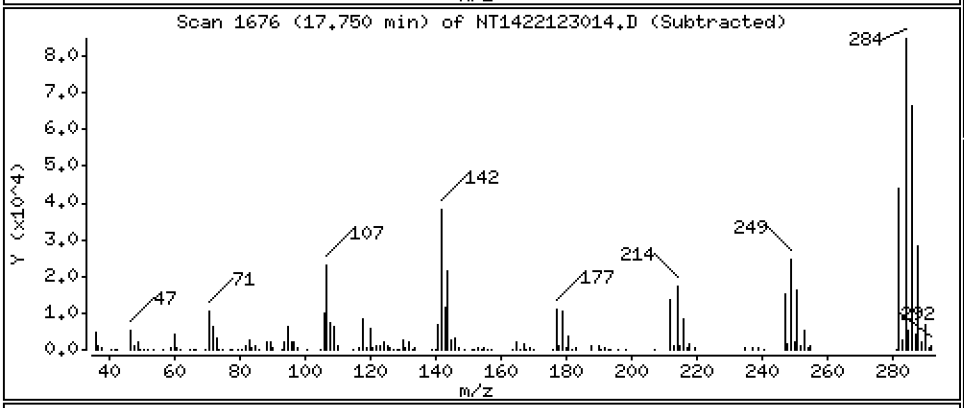
Column diameter: 0.25

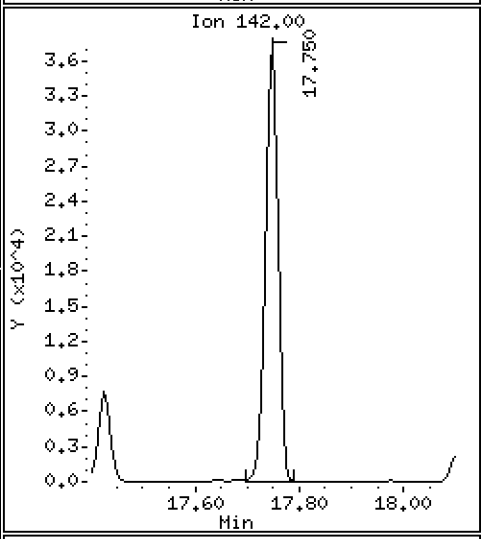
57 Hexachlorobenzene

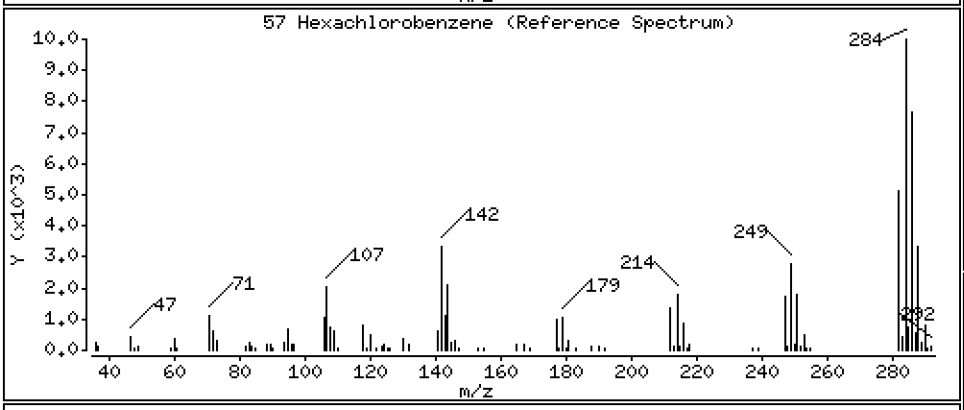
Concentration: 4.512 ug/mL

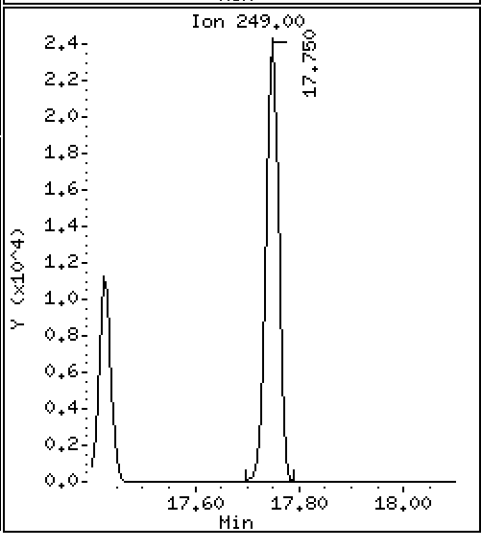


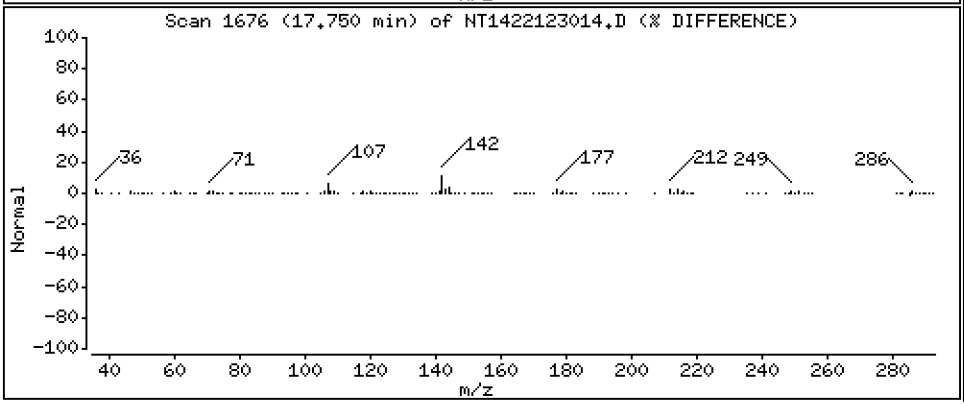












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

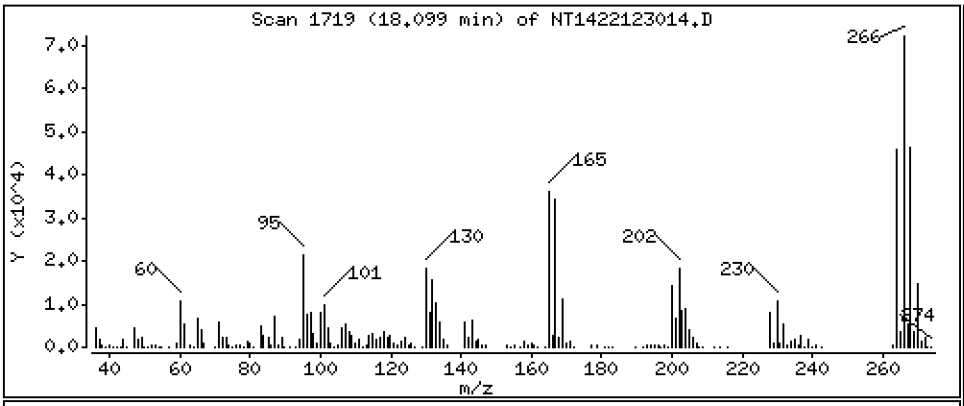
Operator: VTS

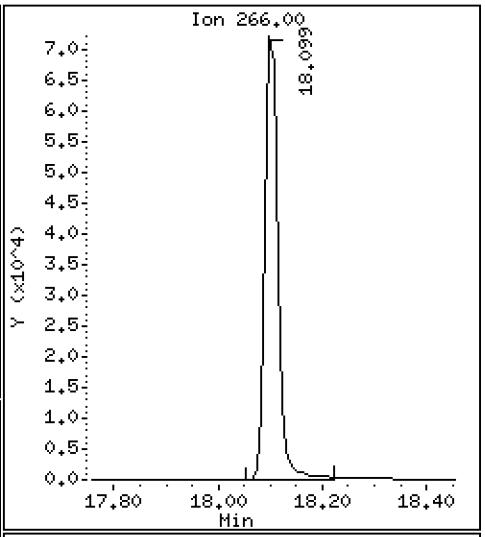
Column phase: ZB-5msi

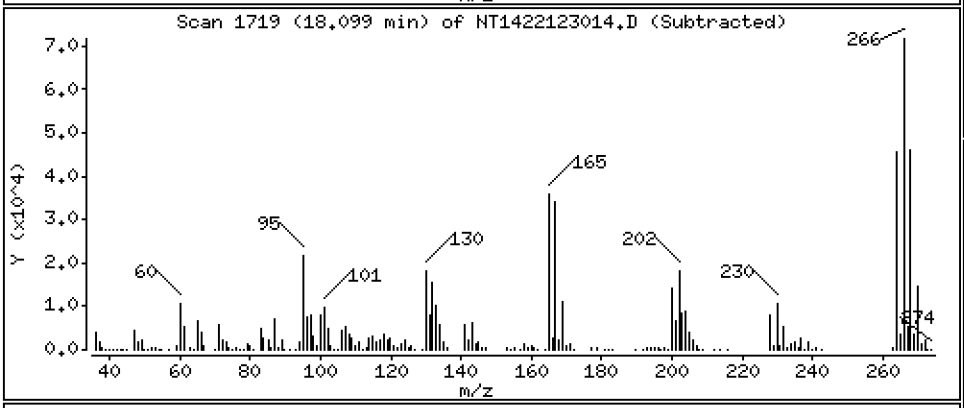
Column diameter: 0.25

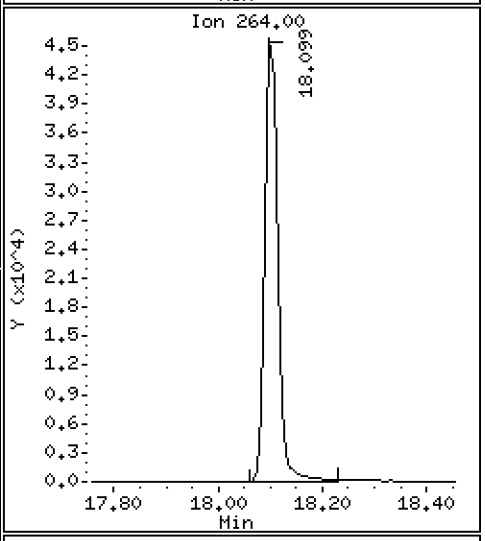
58 Pentachlorophenol

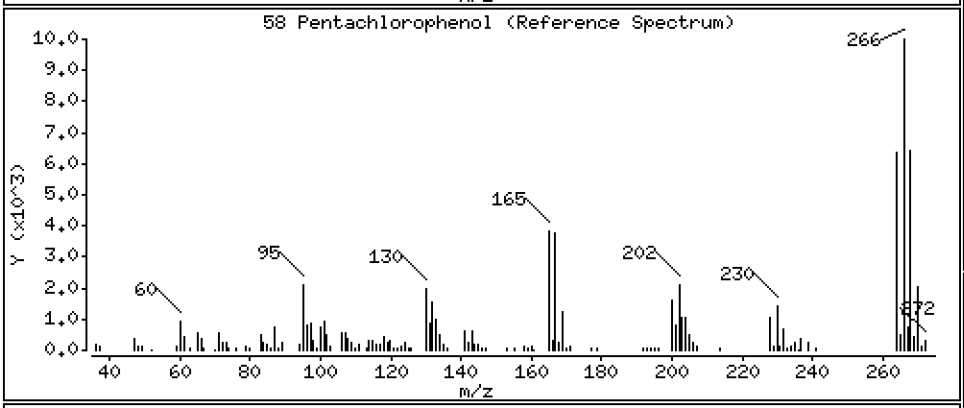
Concentration: 8.913 ug/mL

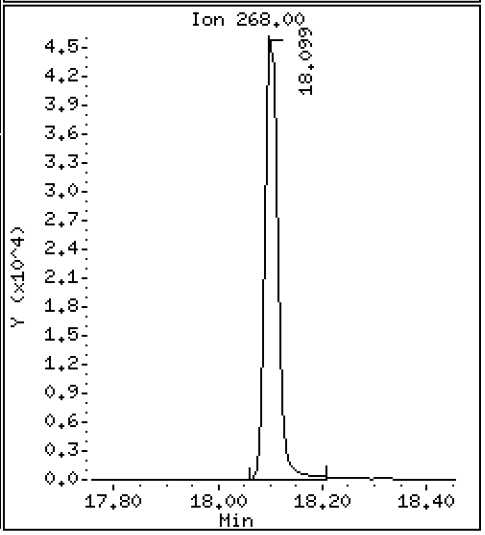


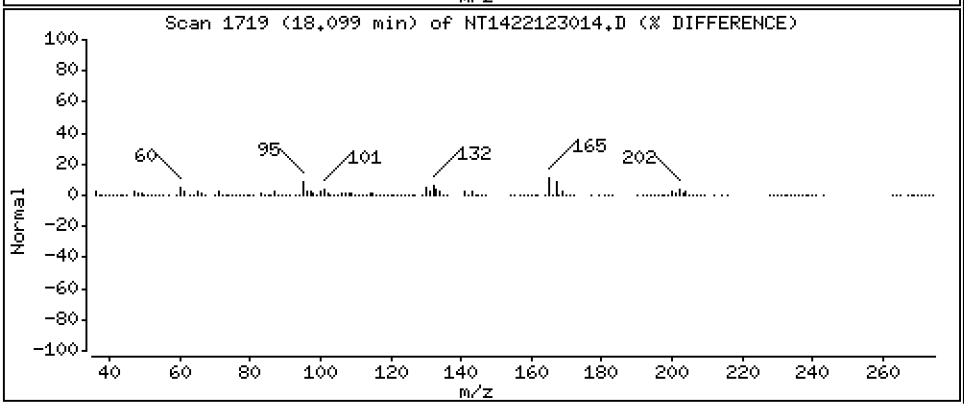












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

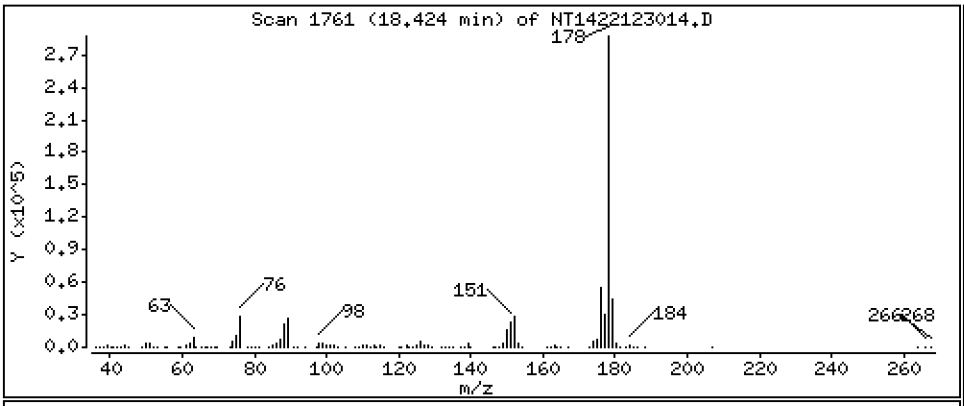
Operator: VTS

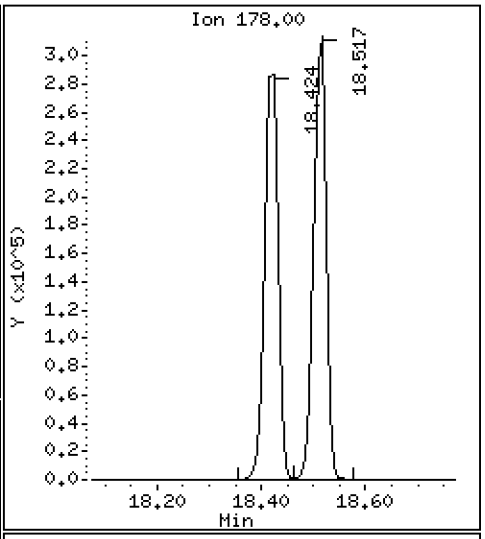
Column phase: ZB-5msi

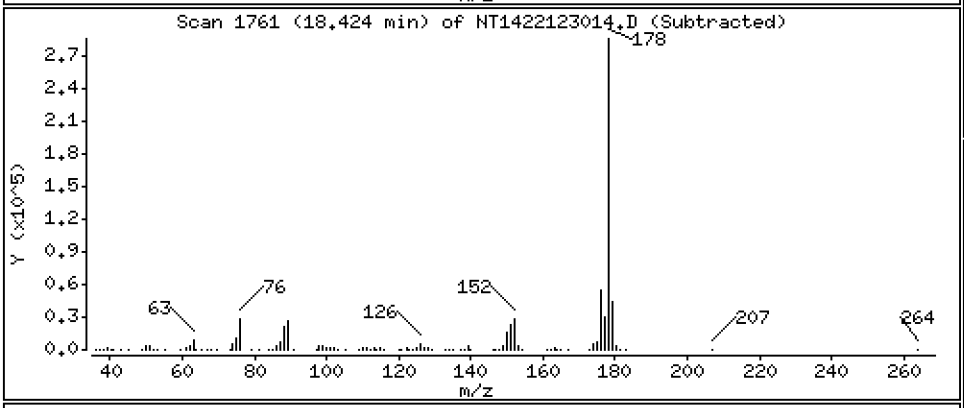
Column diameter: 0.25

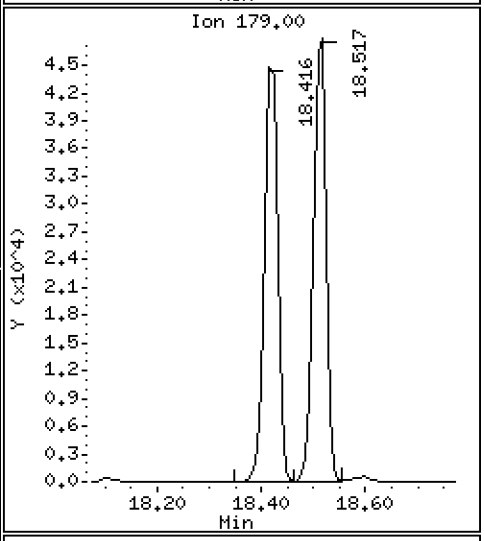
60 Phenanthrene

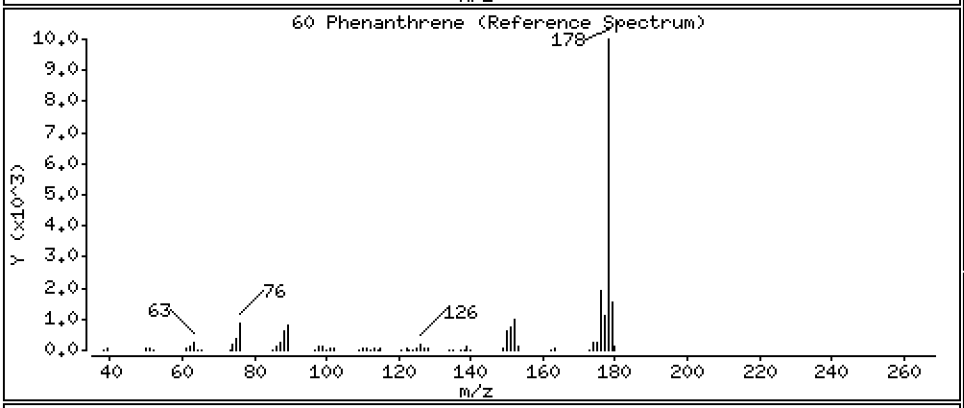
Concentration: 4.591 ug/mL

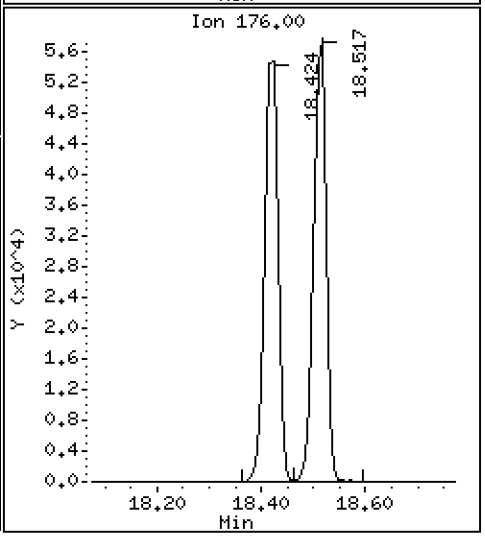


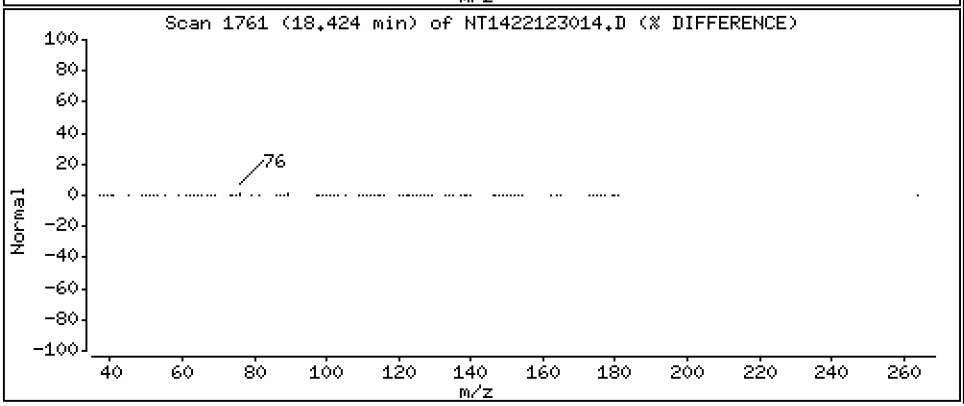












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

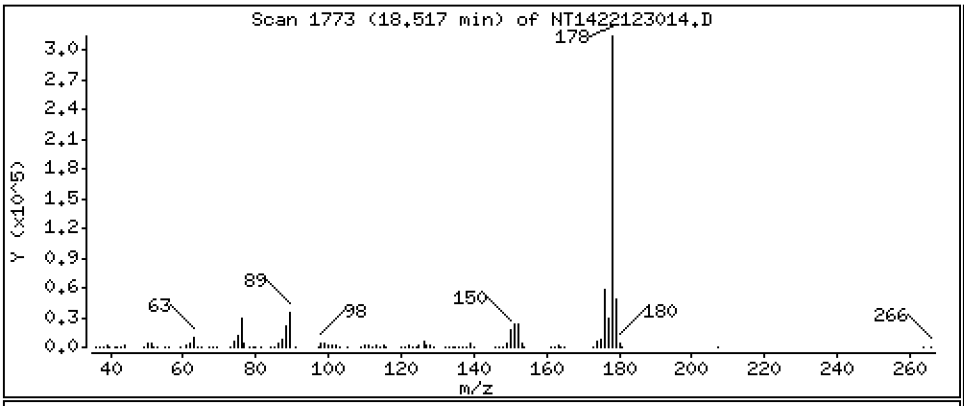
Operator: VTS

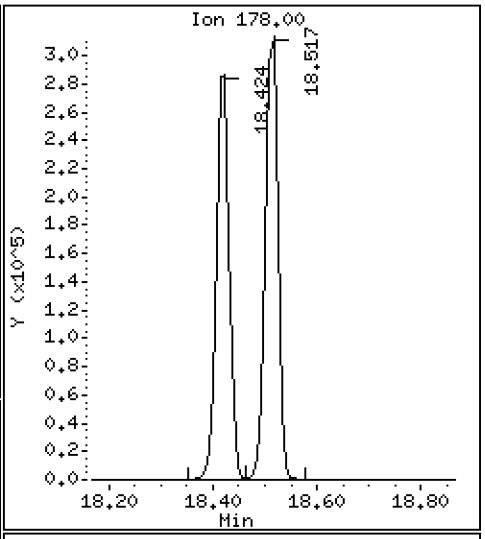
Column phase: ZB-5msi

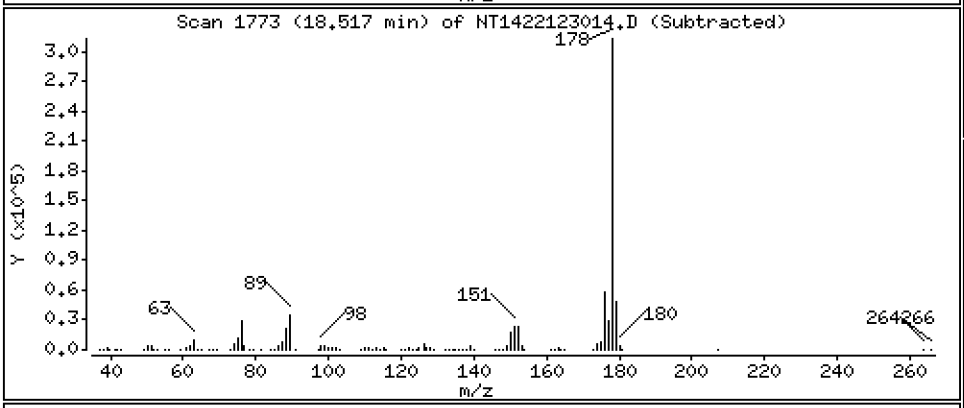
Column diameter: 0.25

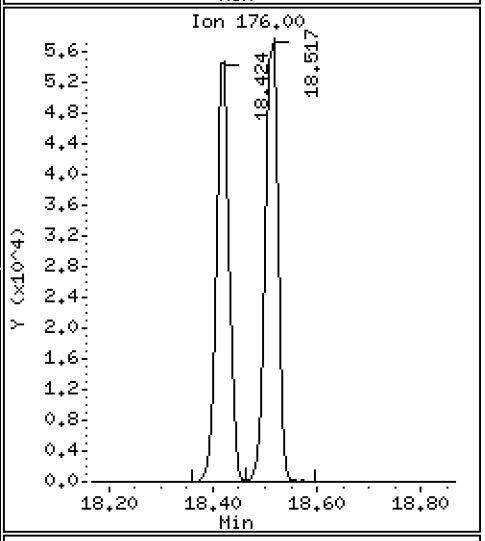
61 Anthracene

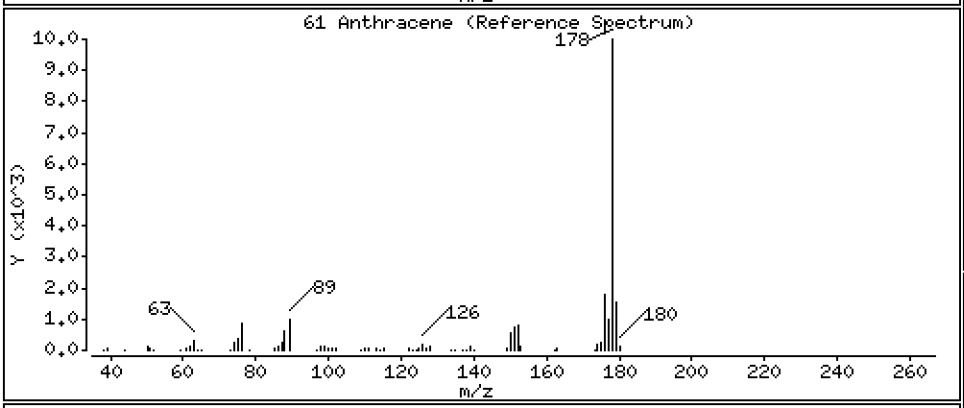
Concentration: 4.879 ug/mL

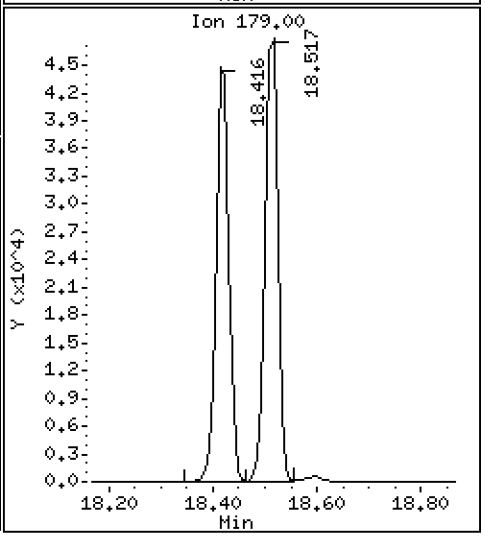


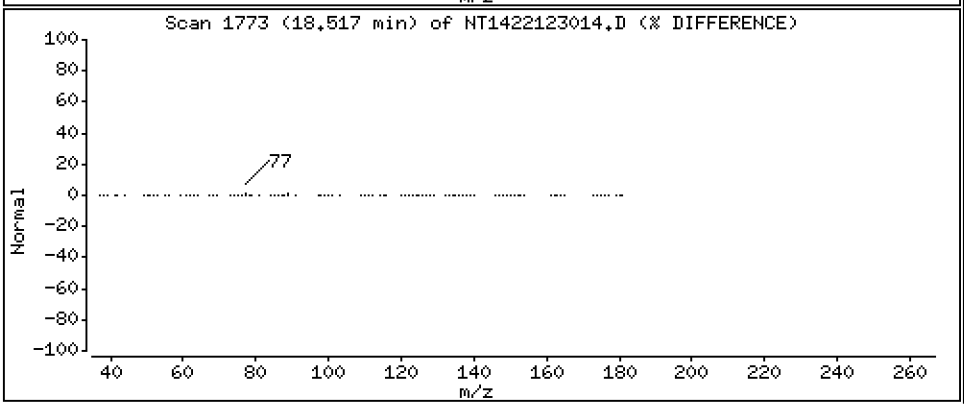












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

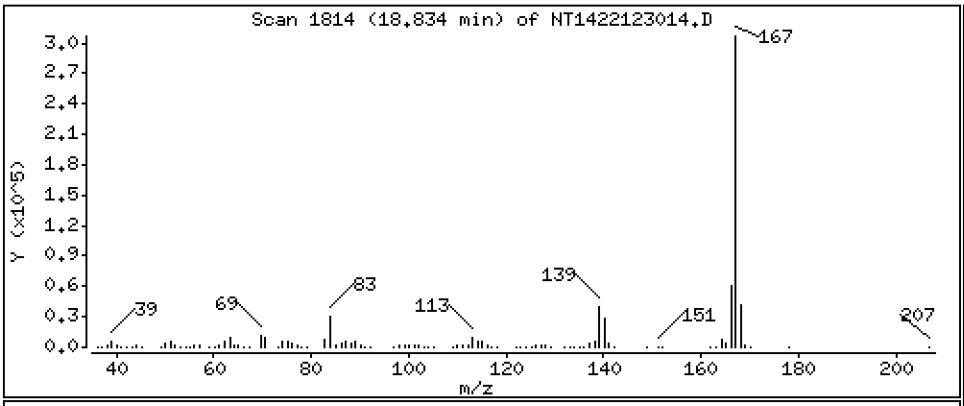
Operator: VTS

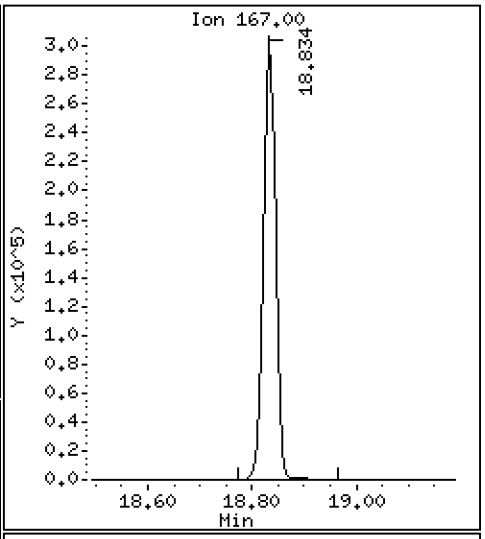
Column phase: ZB-5msi

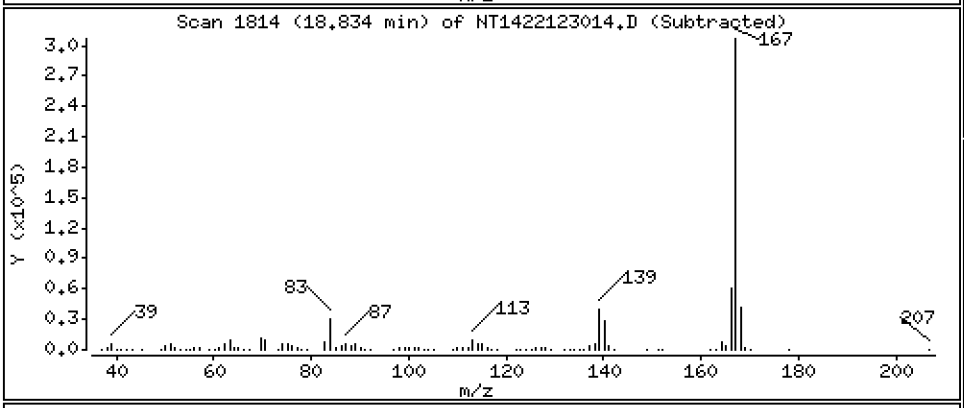
Column diameter: 0.25

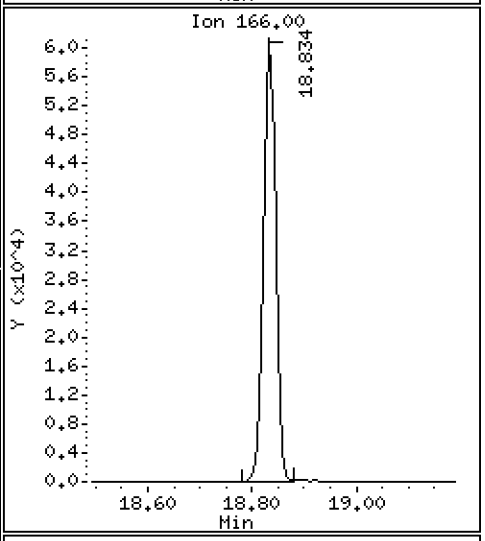
62 Carbazole

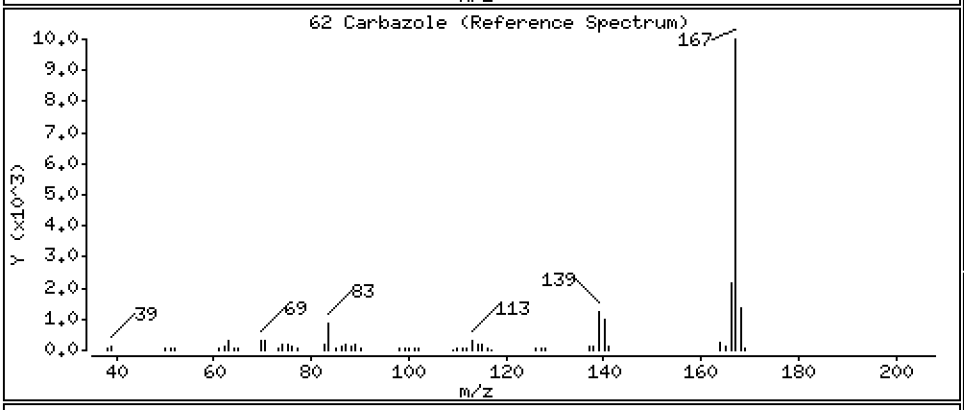
Concentration: 4.678 ug/mL

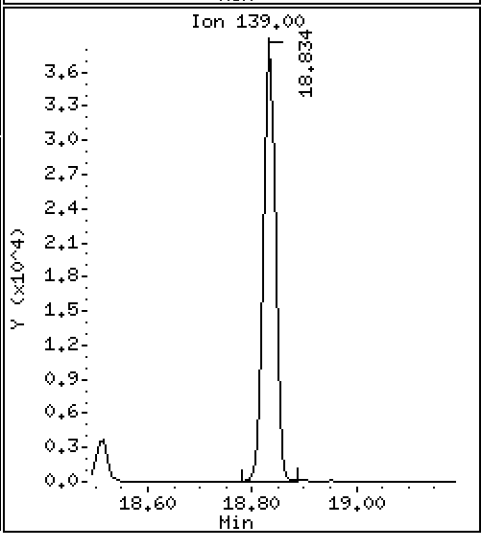


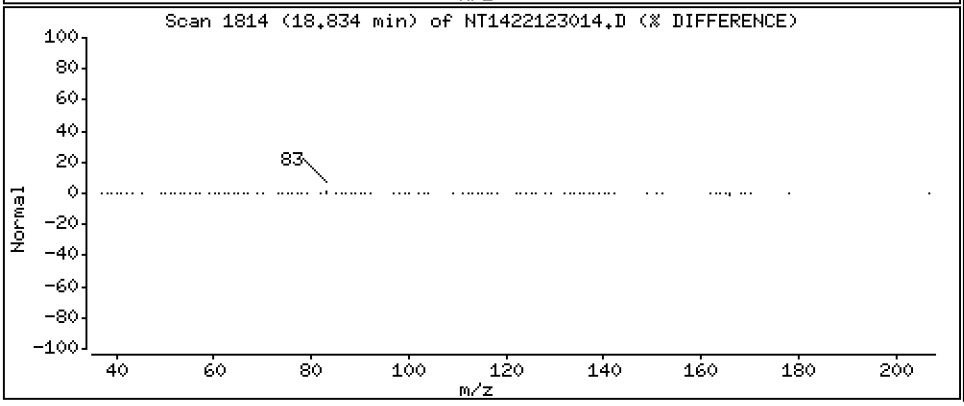












Data File: \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D

Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

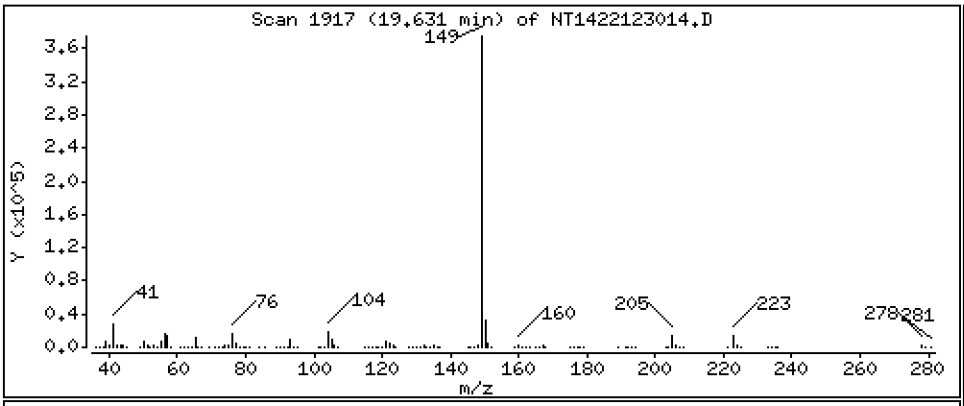
Operator: VTS

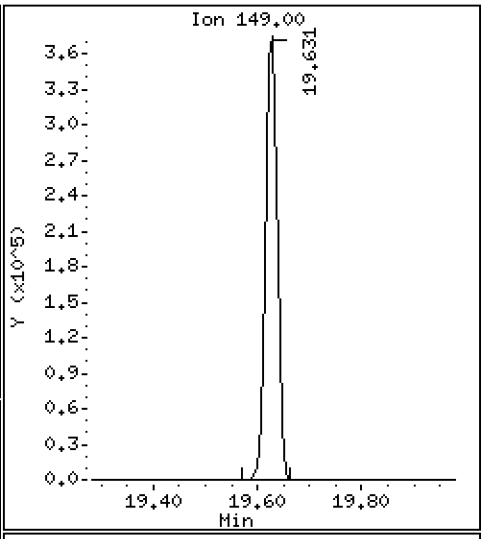
Column phase: ZB-5msi

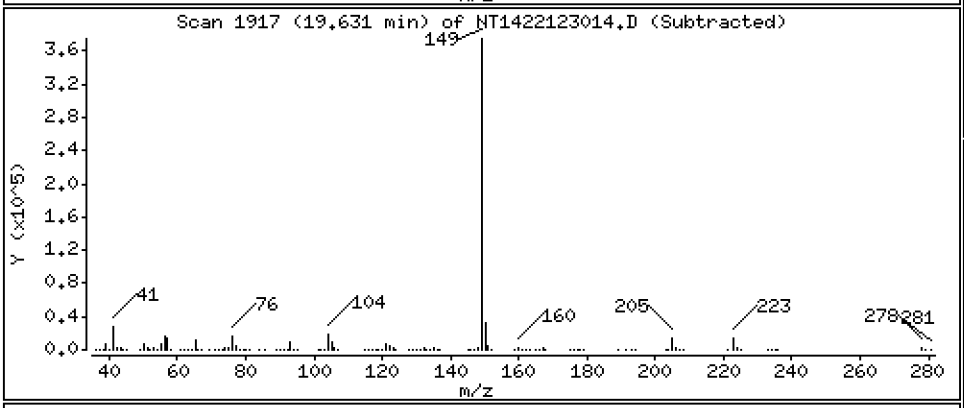
Column diameter: 0.25

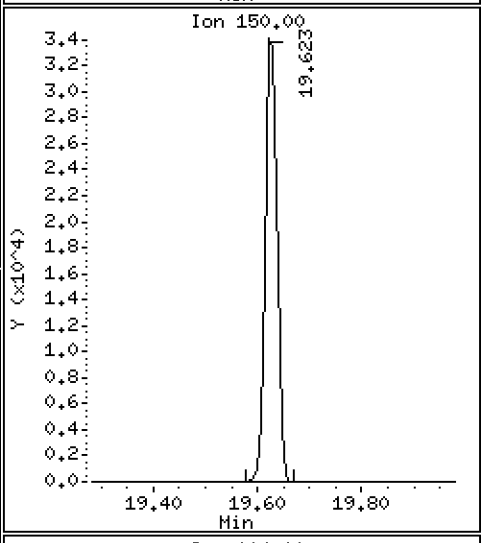
63 Di-n-butylphthalate

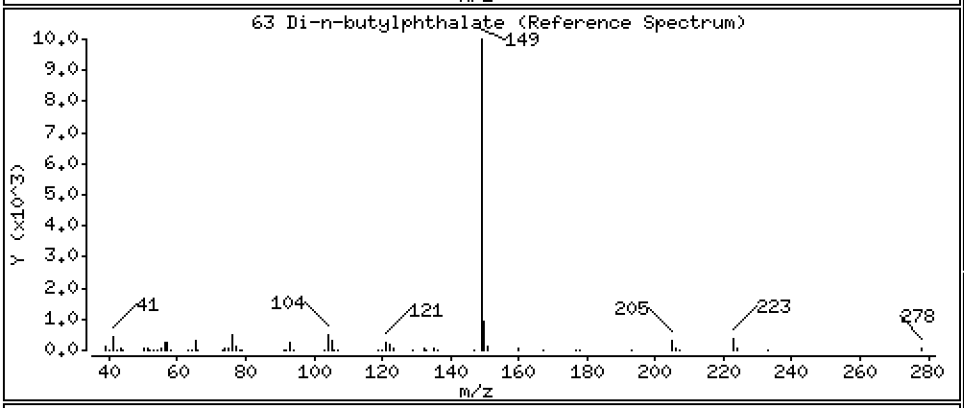
Concentration: 4.807 ug/mL

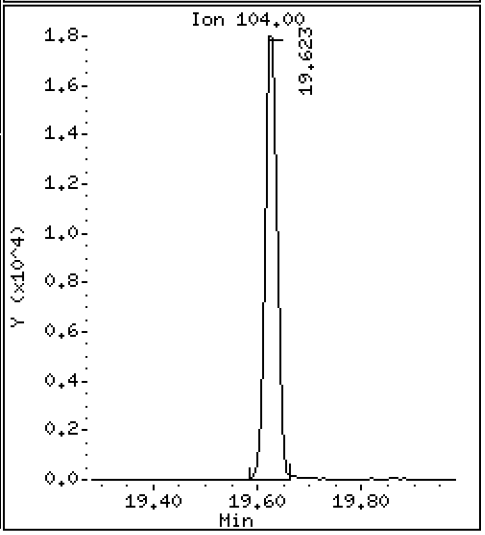


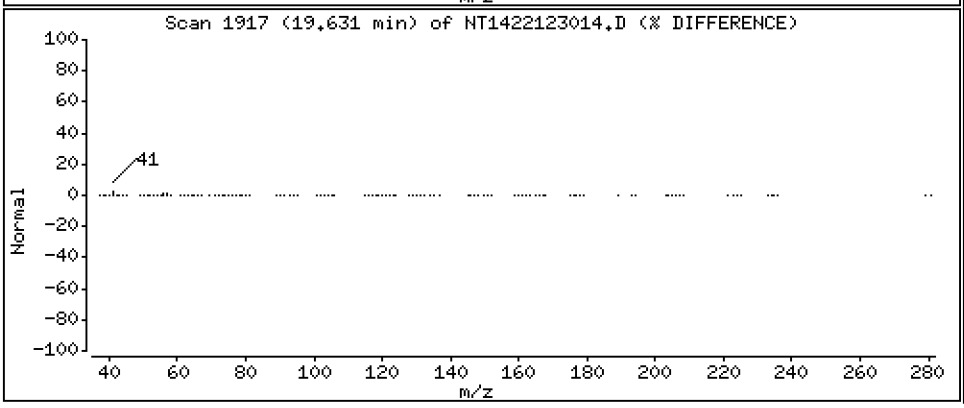












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

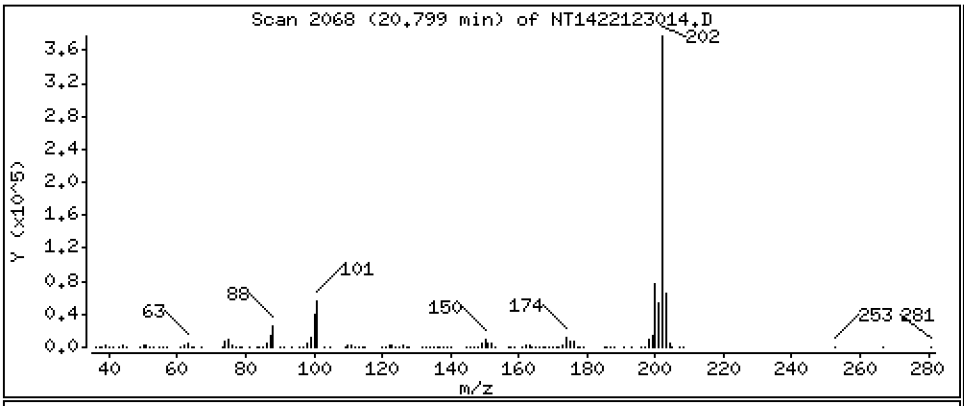
Operator: VTS

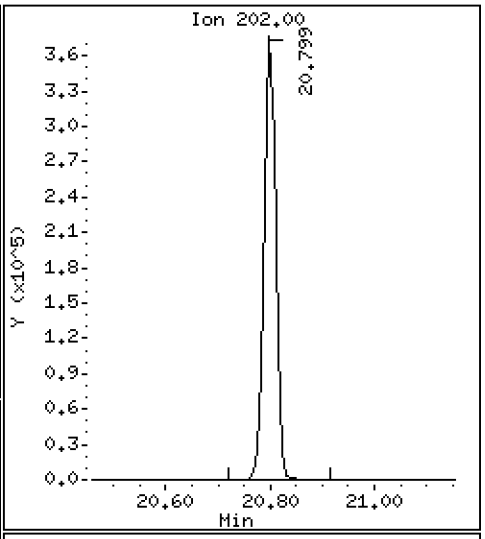
Column phase: ZB-5msi

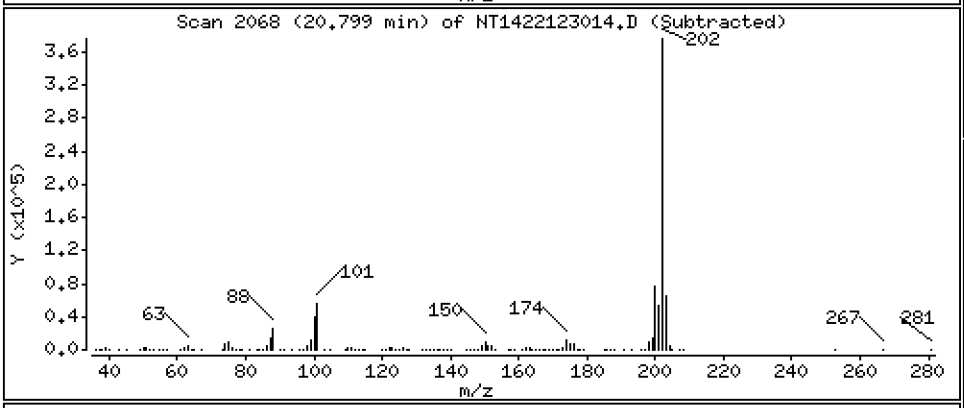
Column diameter: 0.25

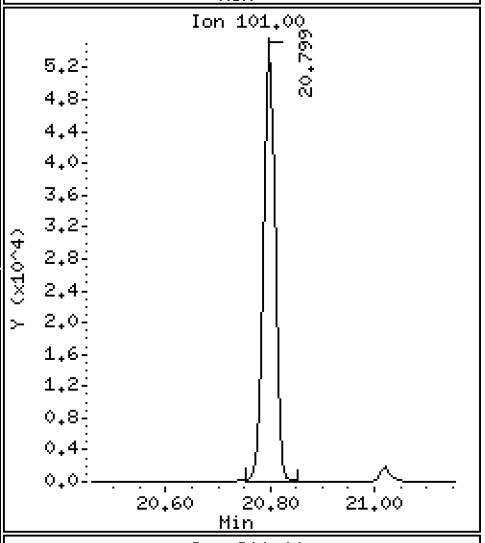
64 Fluoranthene

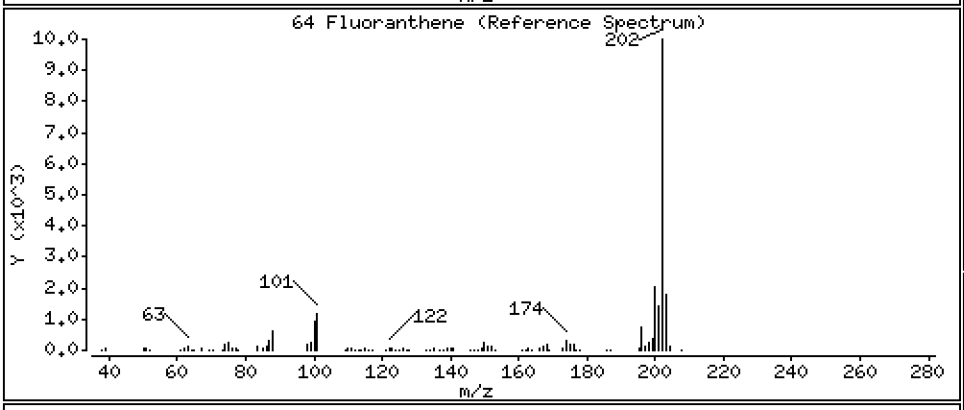
Concentration: 4.863 ug/mL

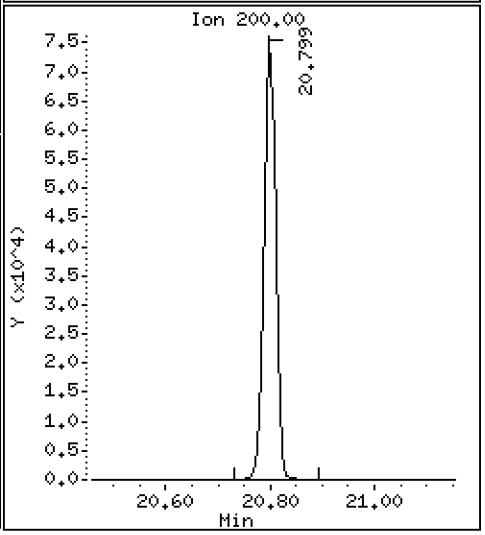


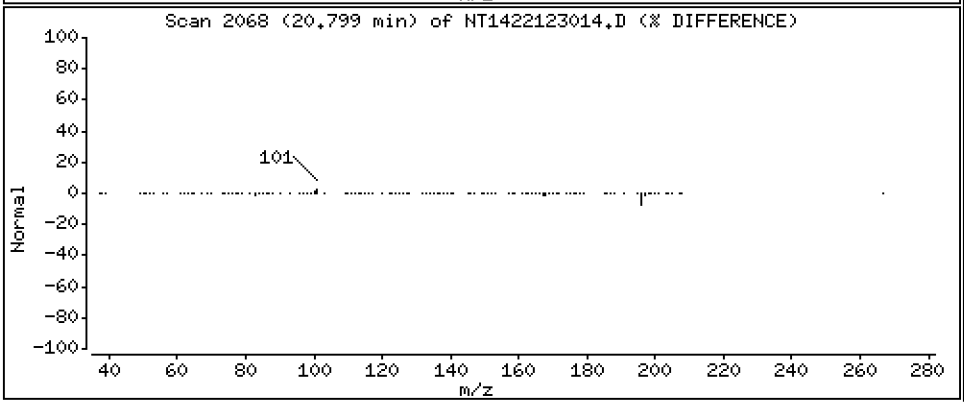












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

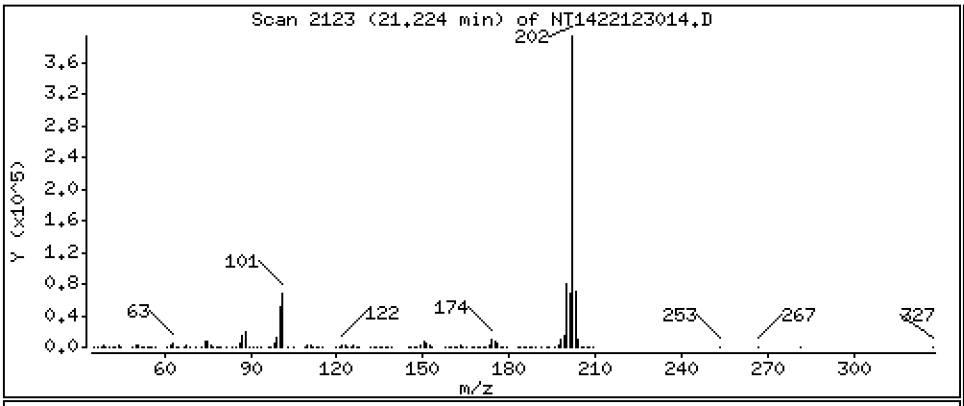
Operator: VTS

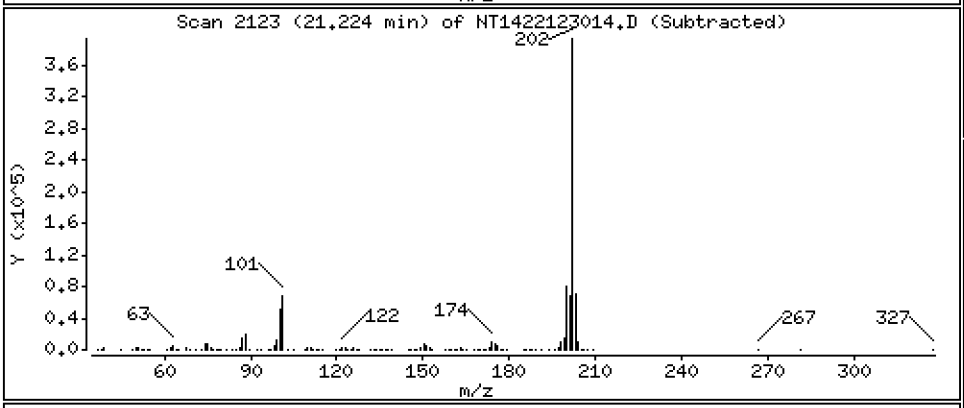
Column phase: ZB-5msi

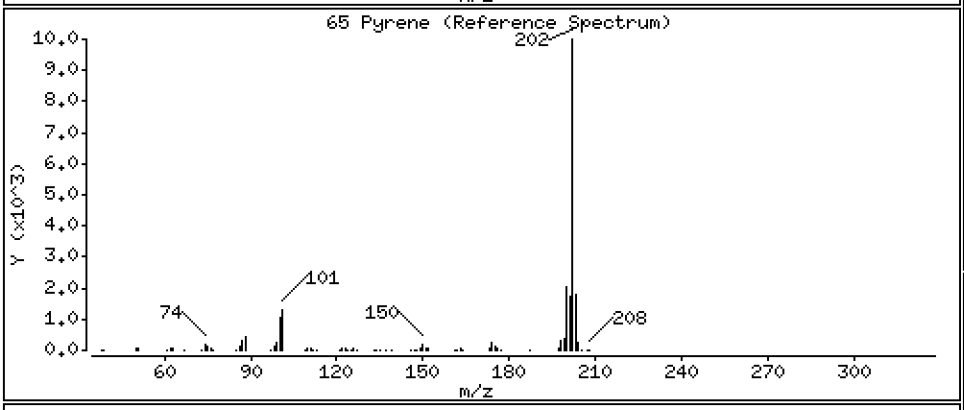
Column diameter: 0.25

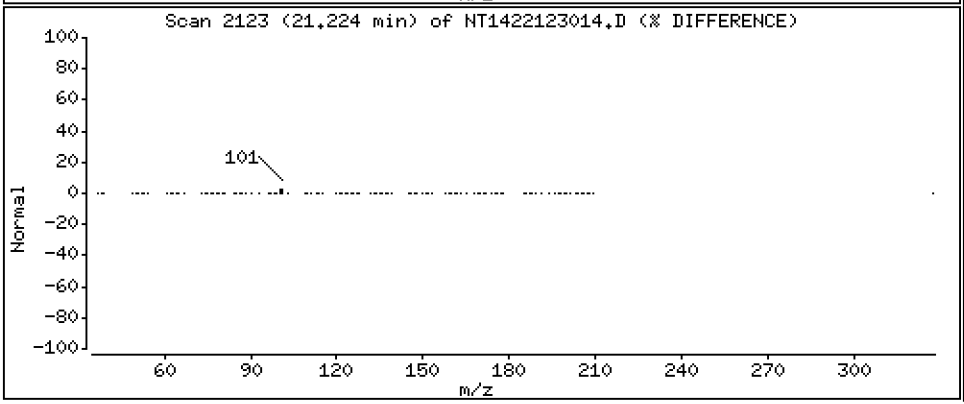
65 Pyrene

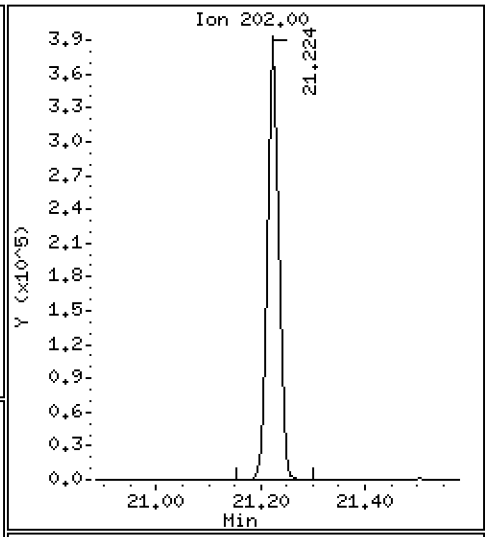
Concentration: 4.842 ug/mL

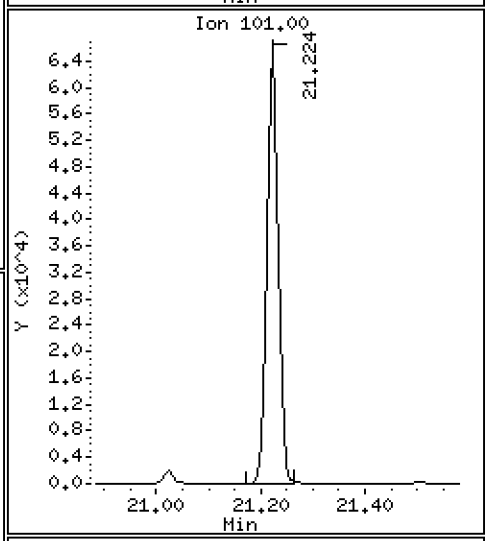


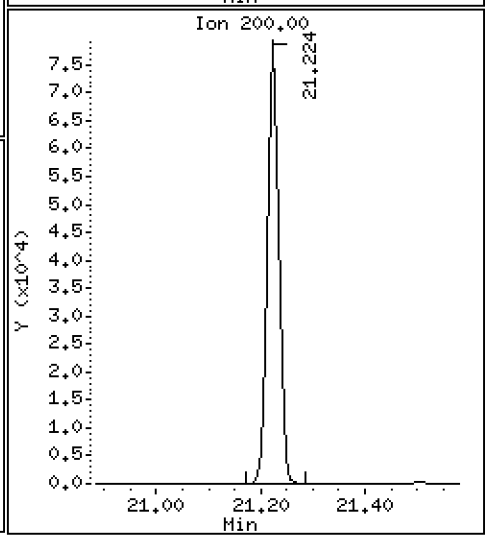












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

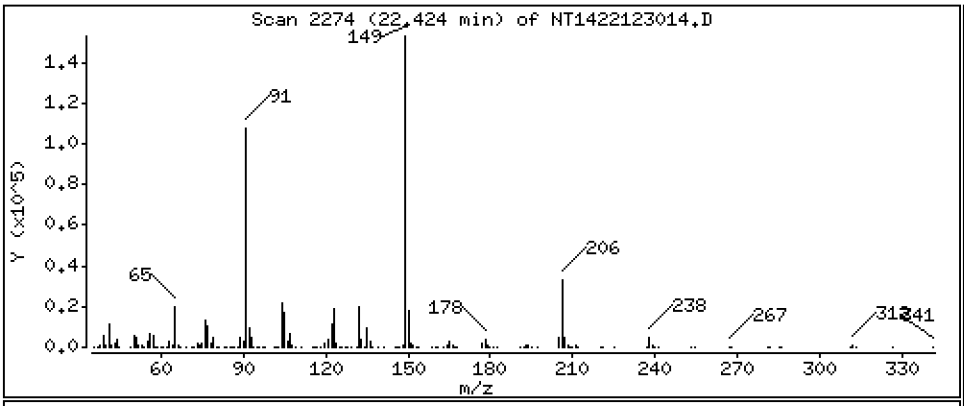
Operator: VTS

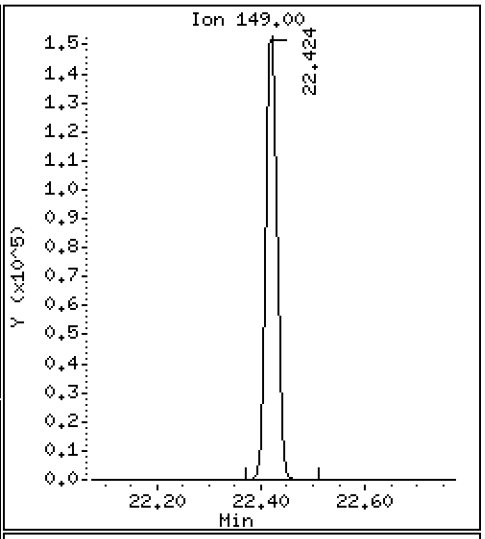
Column phase: ZB-5msi

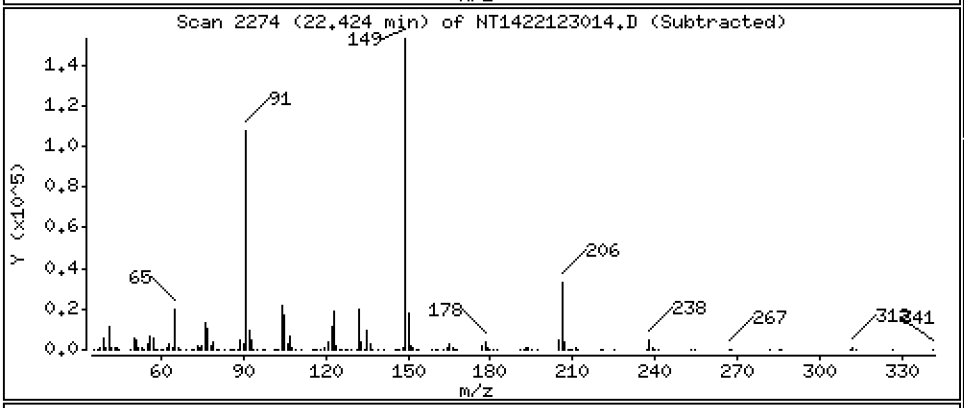
Column diameter: 0.25

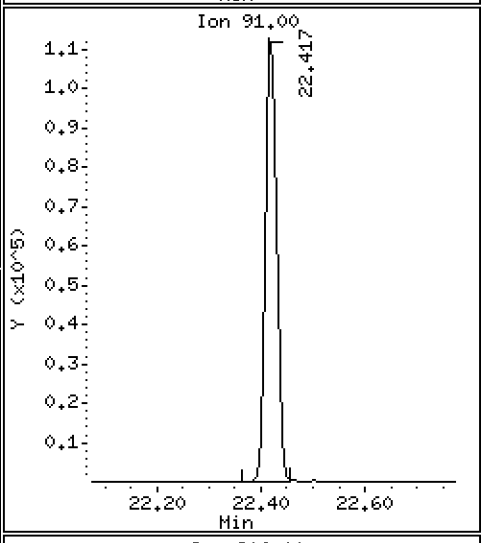
67 Butylbenzylphthalate

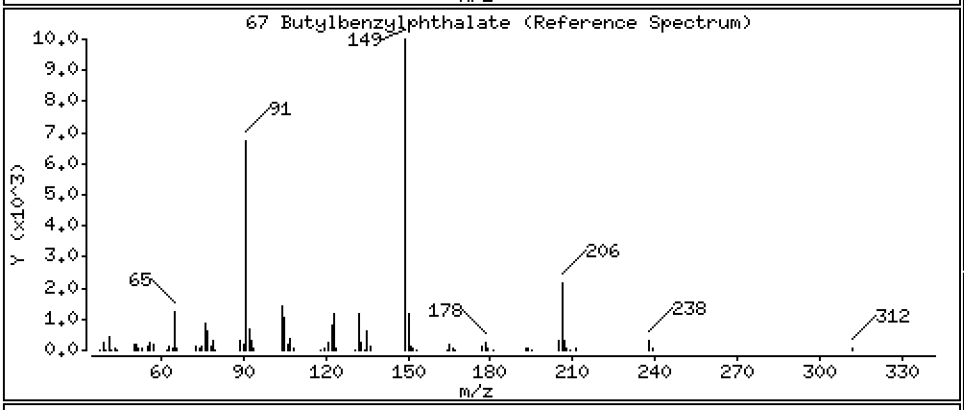
Concentration: 4.869 ug/mL

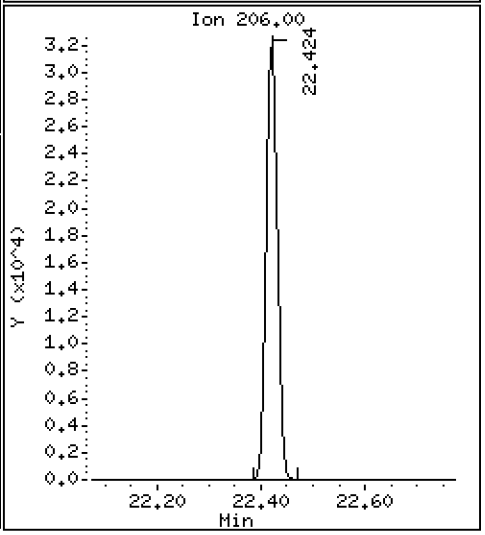


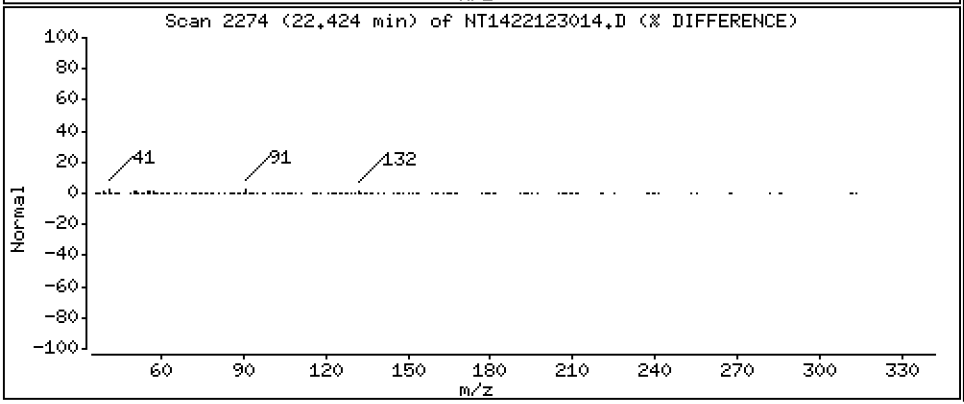












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

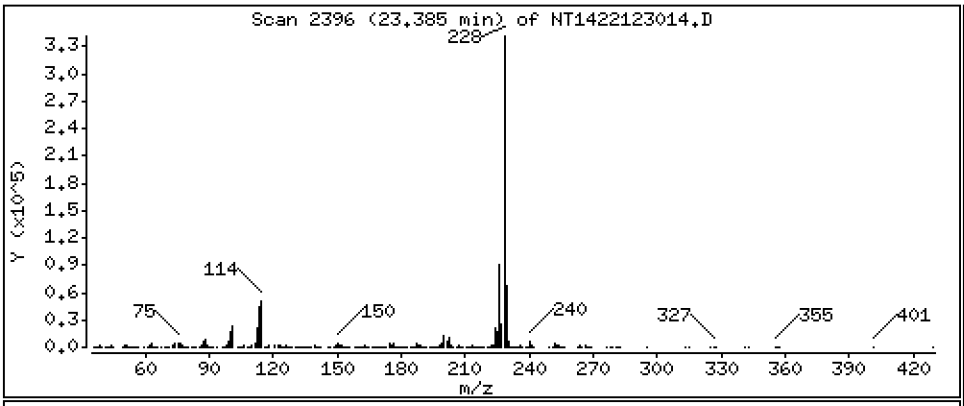
Operator: VTS

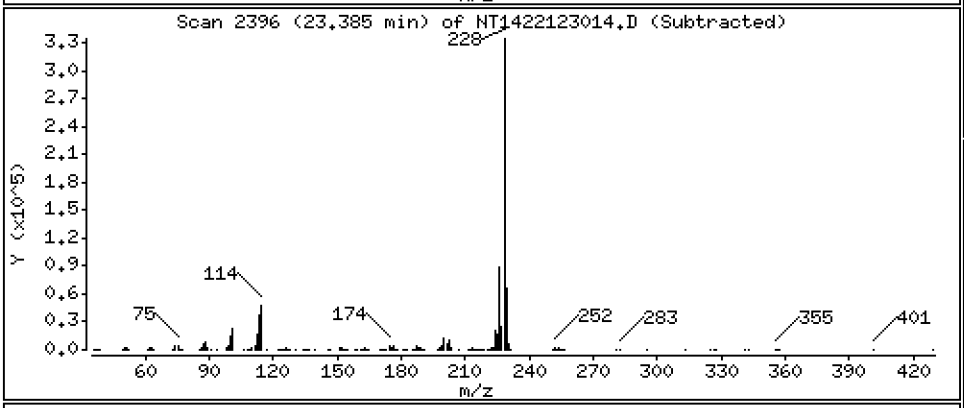
Column phase: ZB-5msi

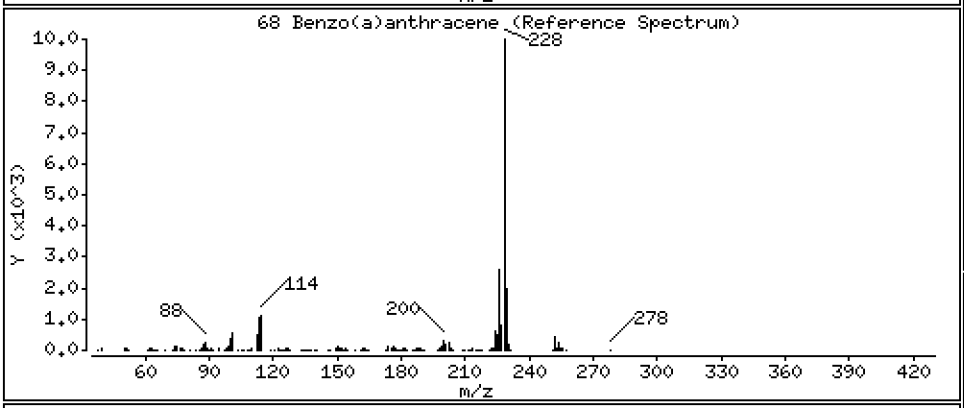
Column diameter: 0.25

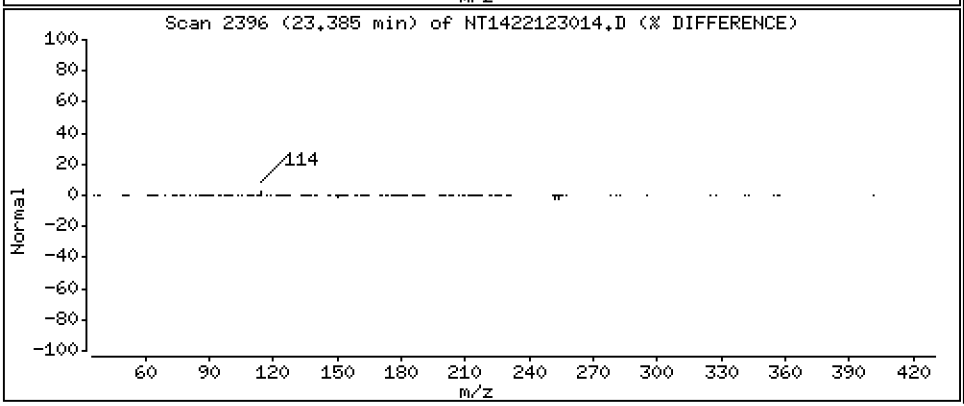
68 Benzo(a)anthracene

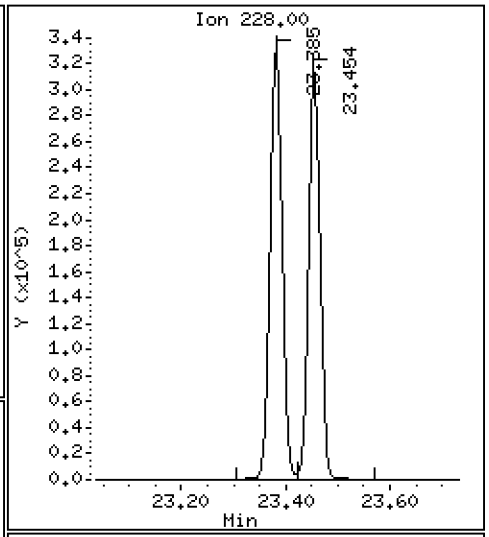
Concentration: 4.796 ug/mL

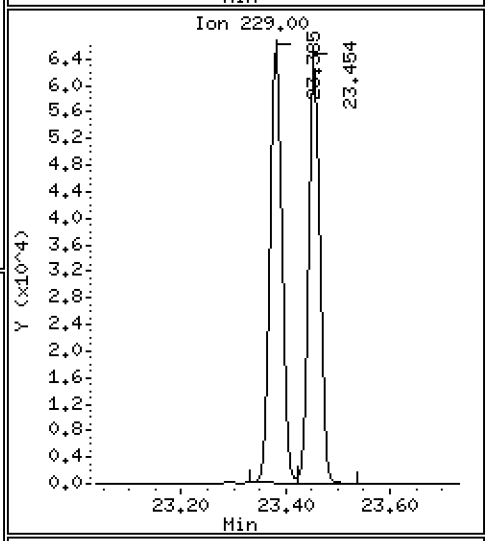


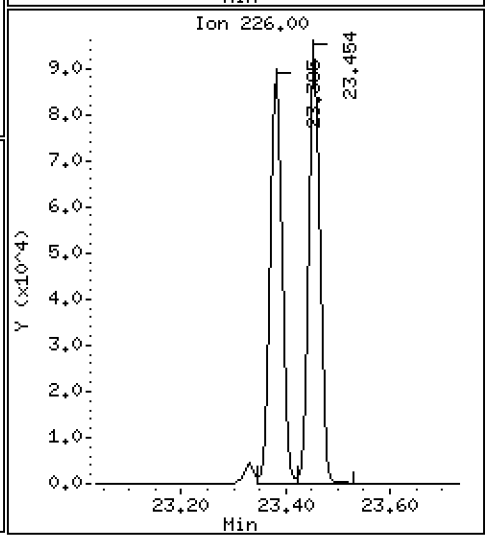












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

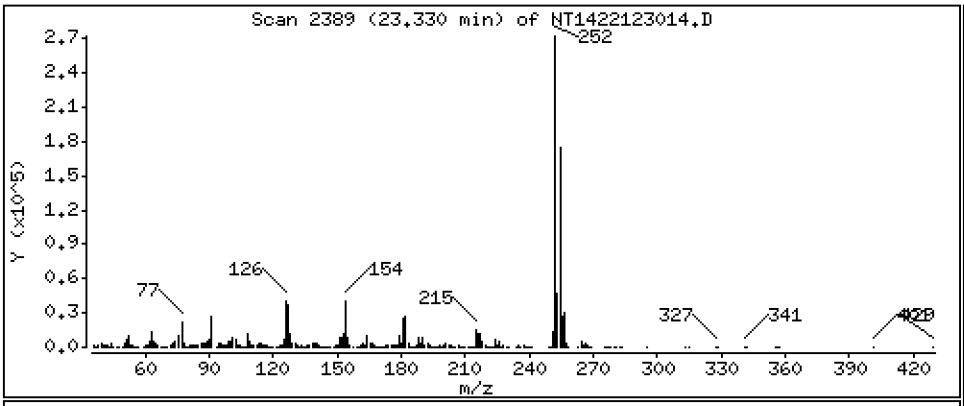
Operator: VTS

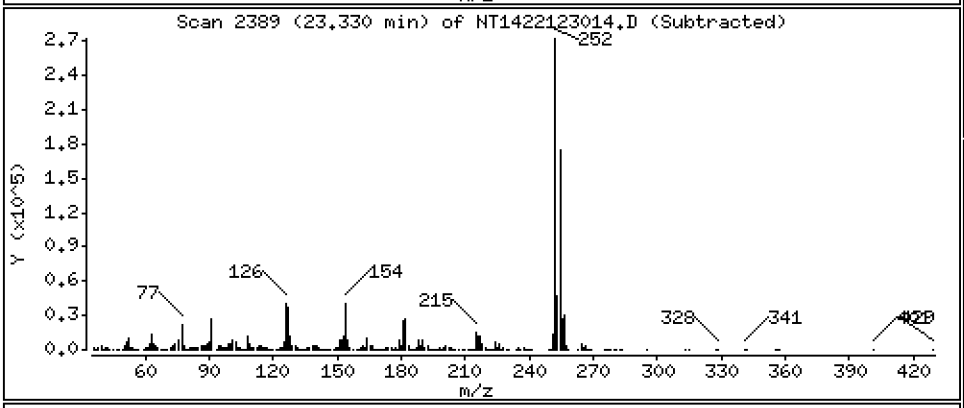
Column phase: ZB-5msi

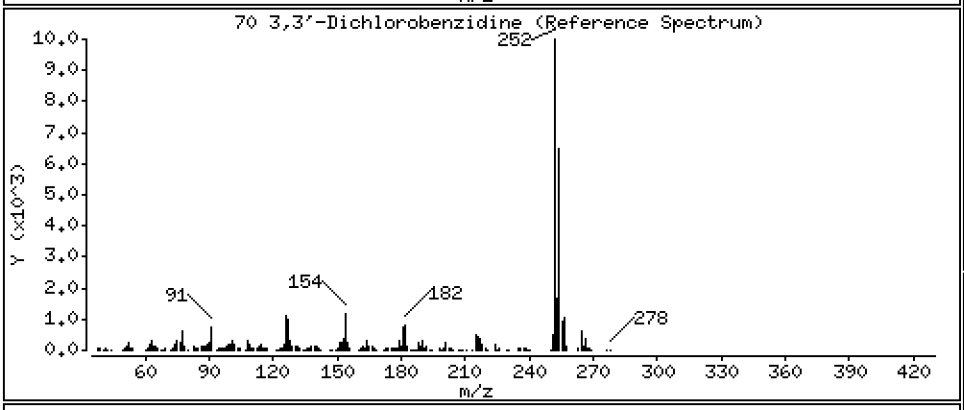
Column diameter: 0.25

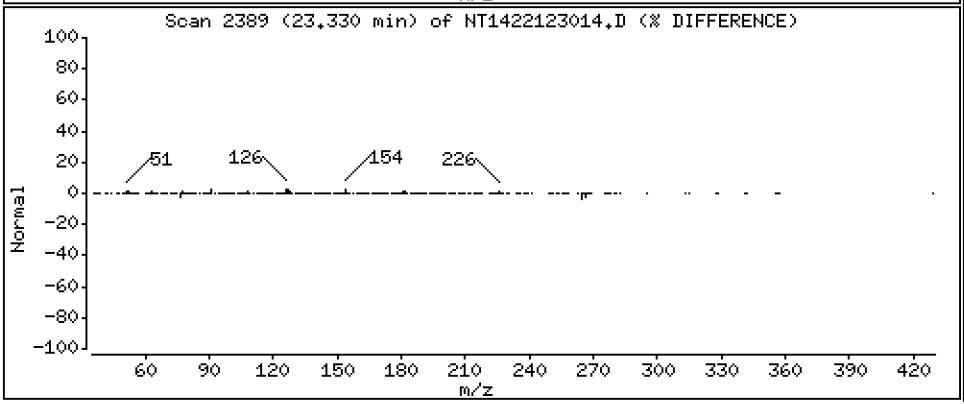
70 3,3'-Dichlorobenzidine

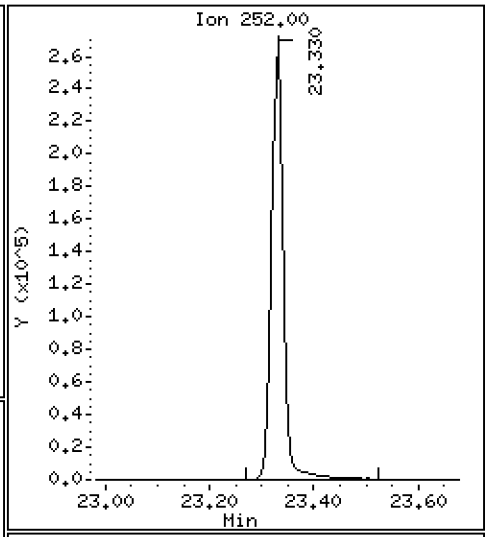
Concentration: 12.25 ug/mL

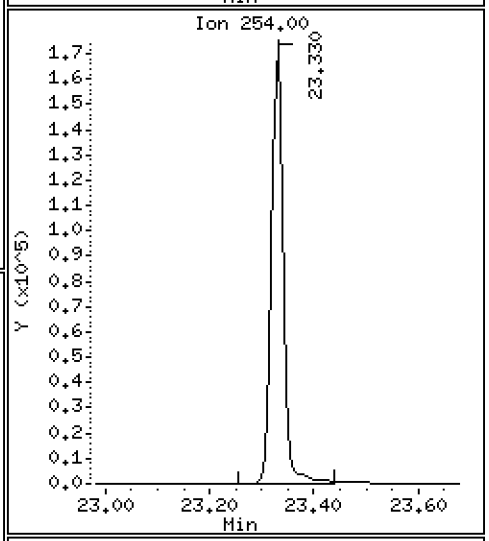


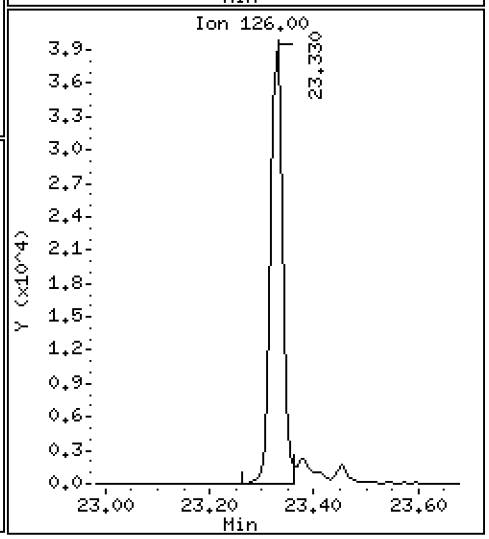












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

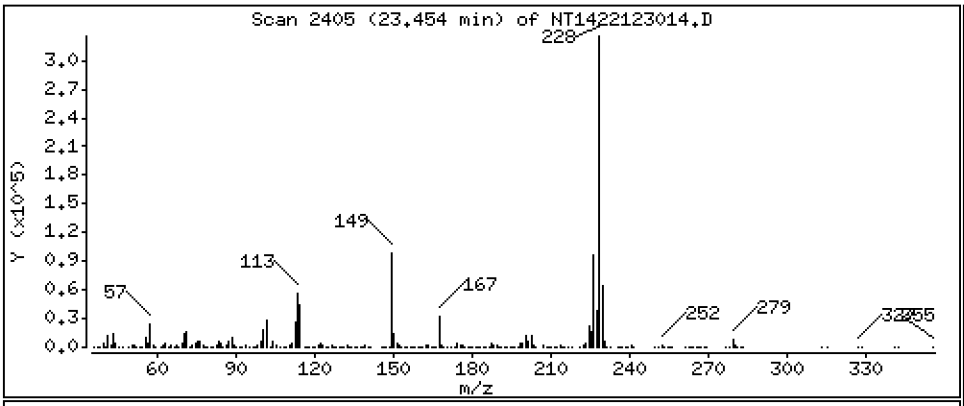
Operator: VTS

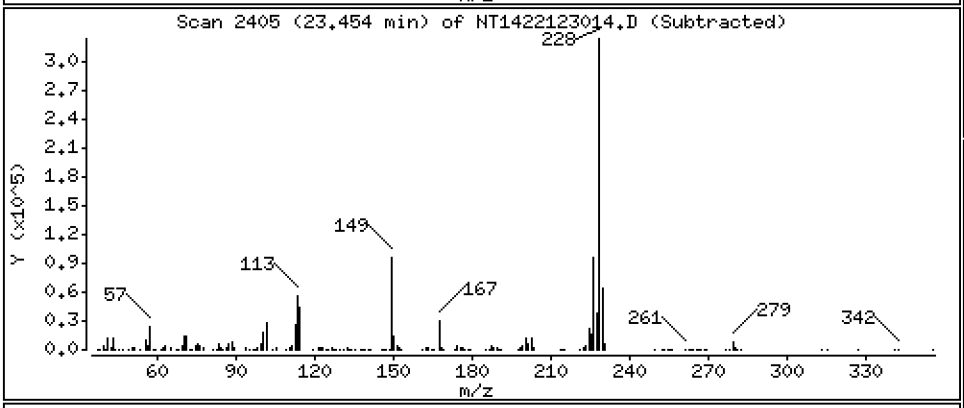
Column phase: ZB-5msi

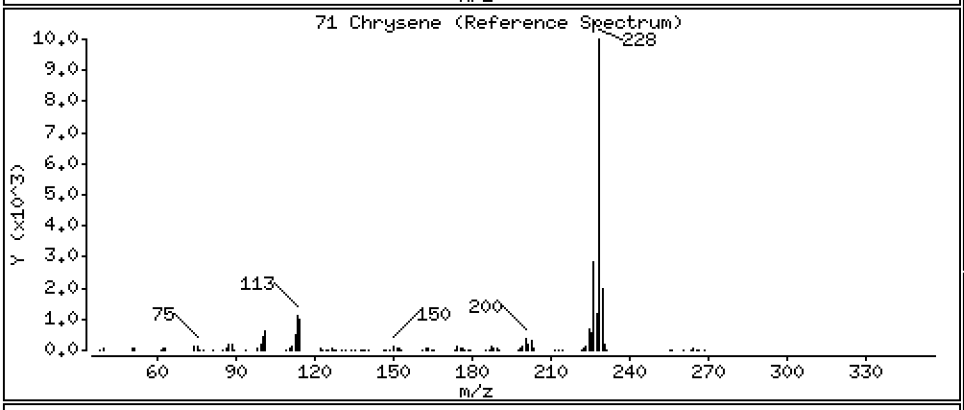
Column diameter: 0.25

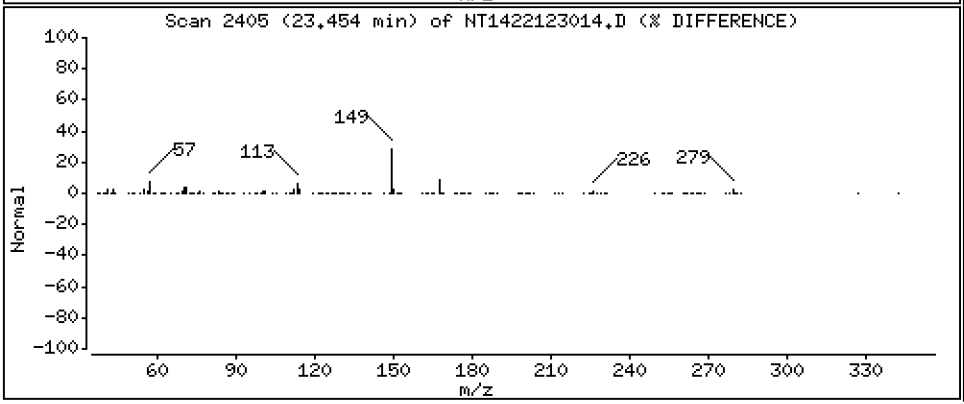
71 Chrysene

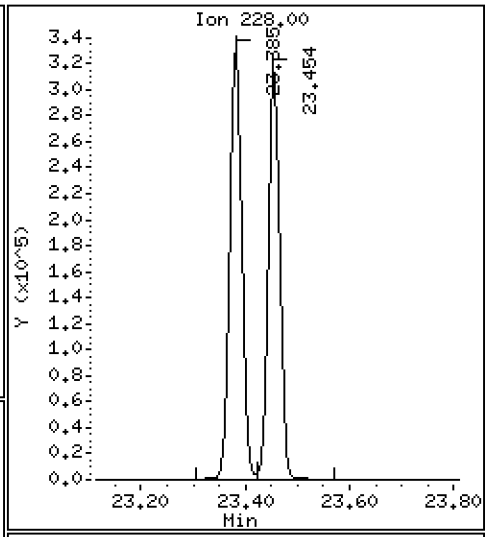
Concentration: 4.690 ug/mL

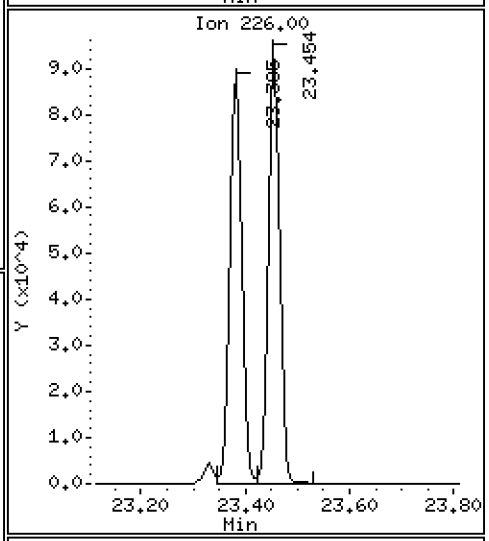


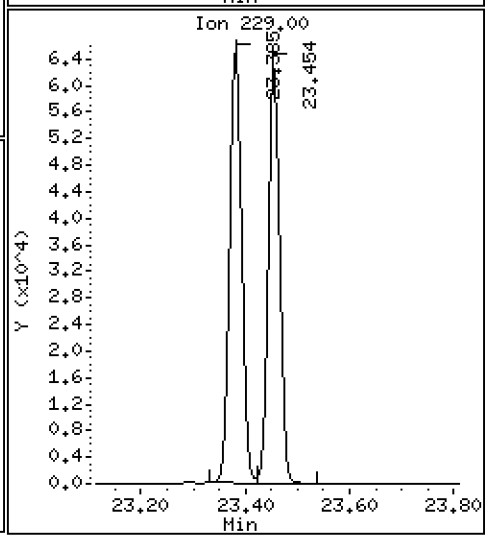












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

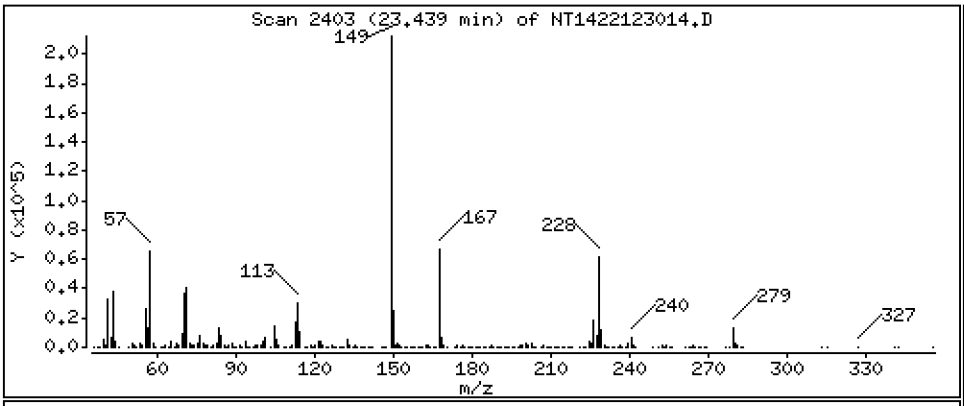
Operator: VTS

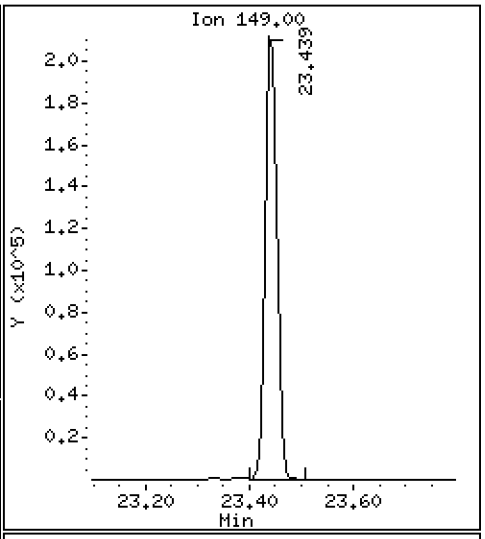
Column phase: ZB-5msi

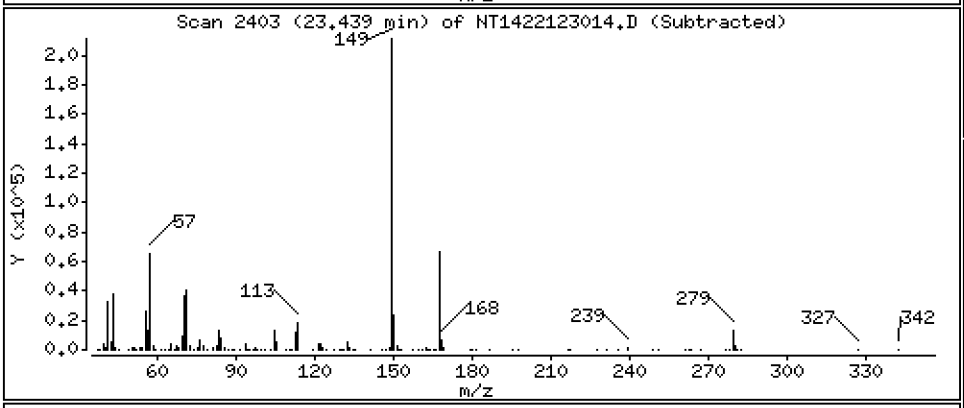
Column diameter: 0.25

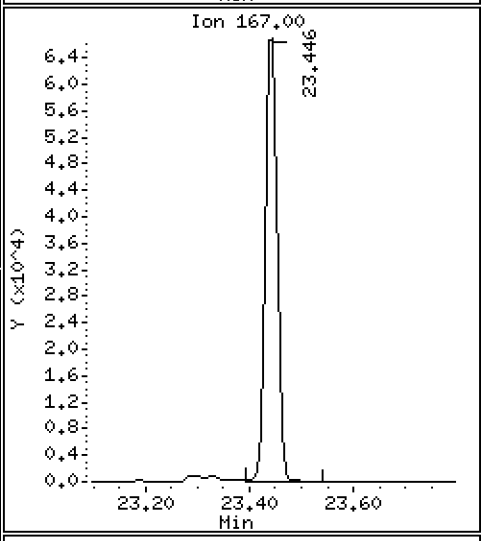
72 bis(2-Ethylhexyl)phthalate

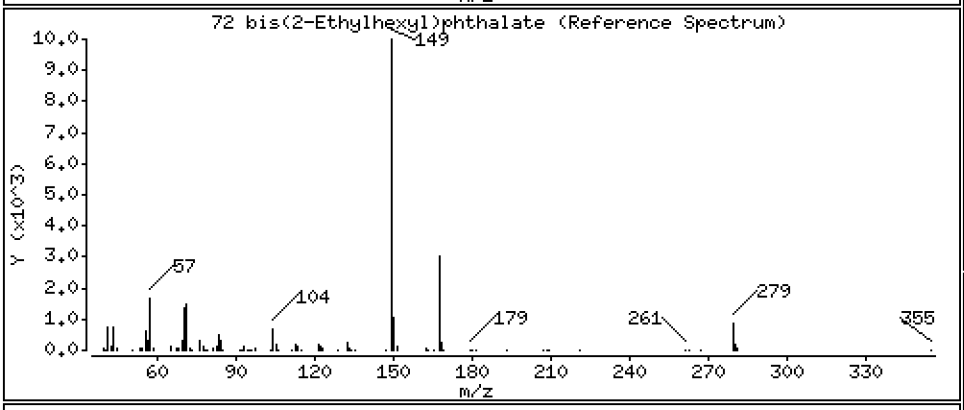
Concentration: 5.469 ug/mL

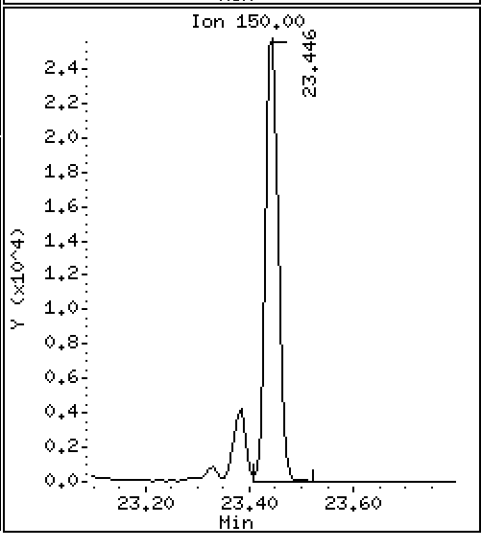


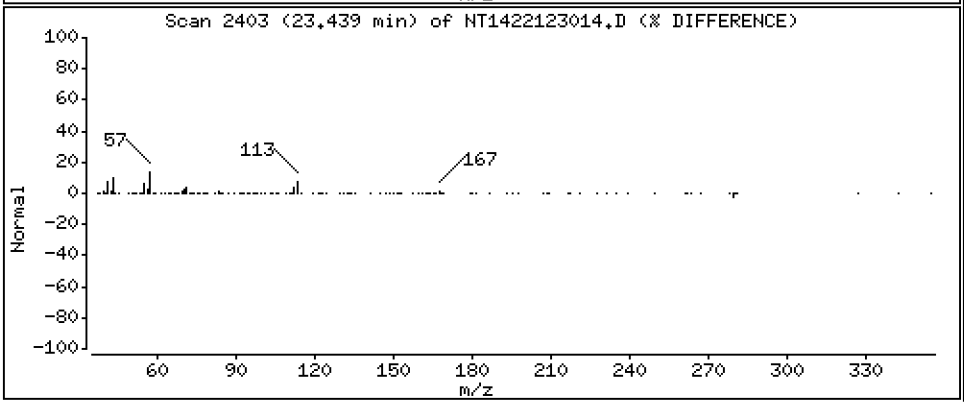












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

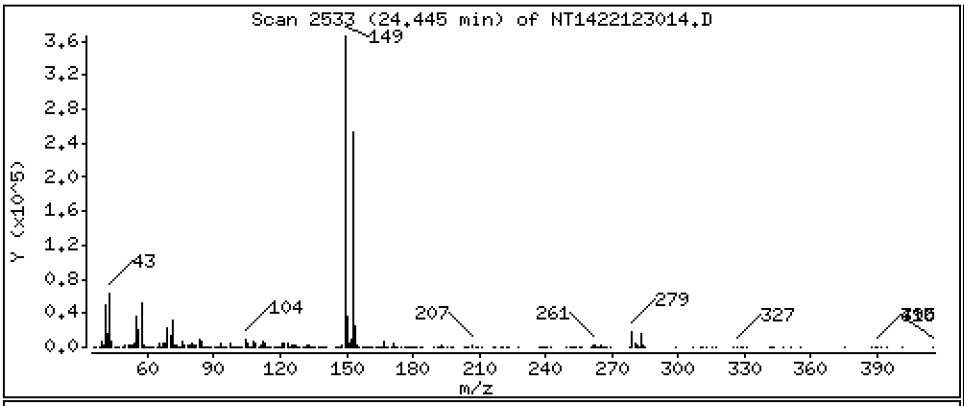
Operator: VTS

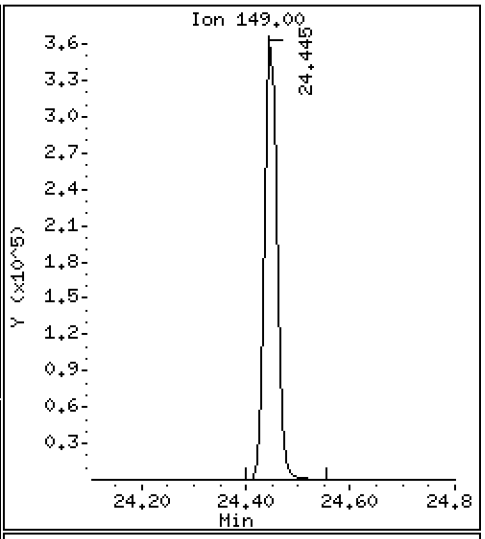
Column phase: ZB-5msi

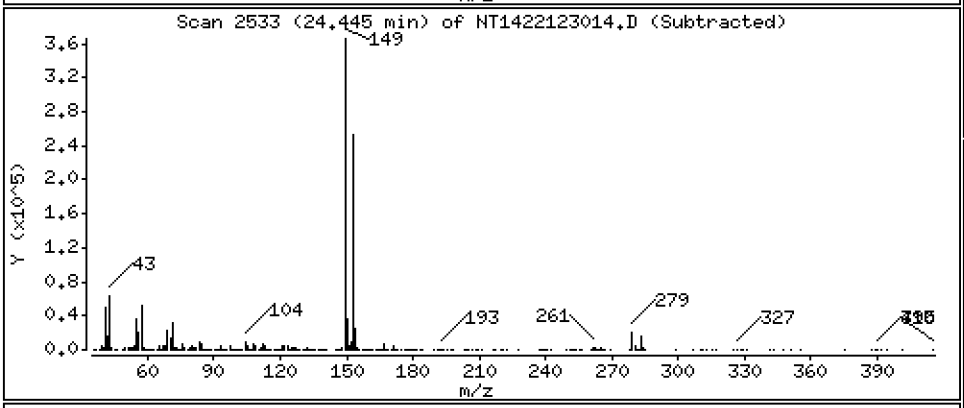
Column diameter: 0.25

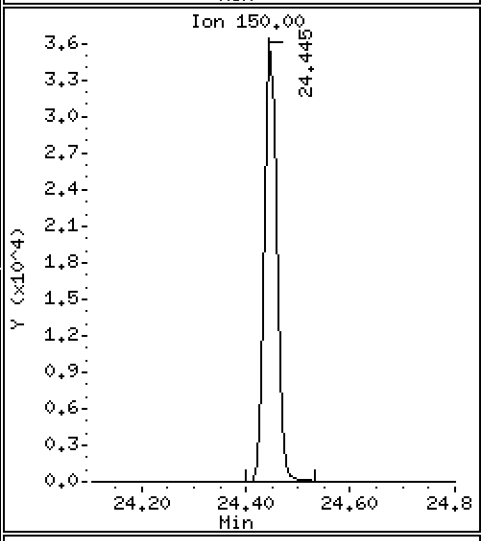
73 Di-n-octylphthalate

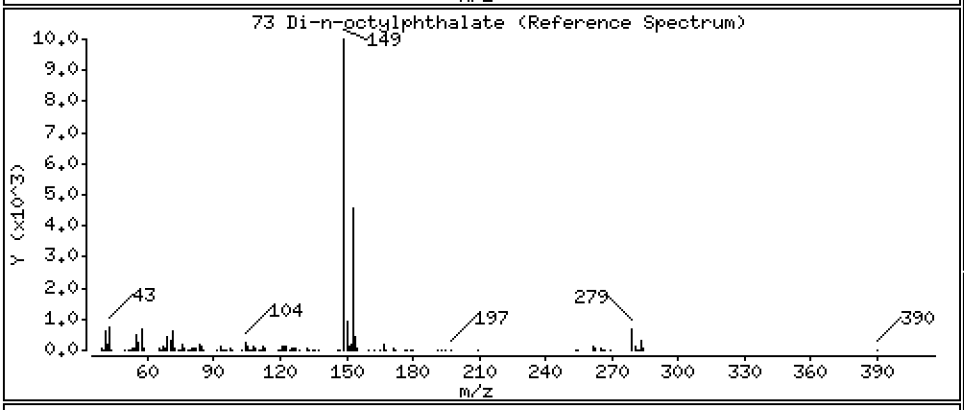
Concentration: 4.541 ug/mL

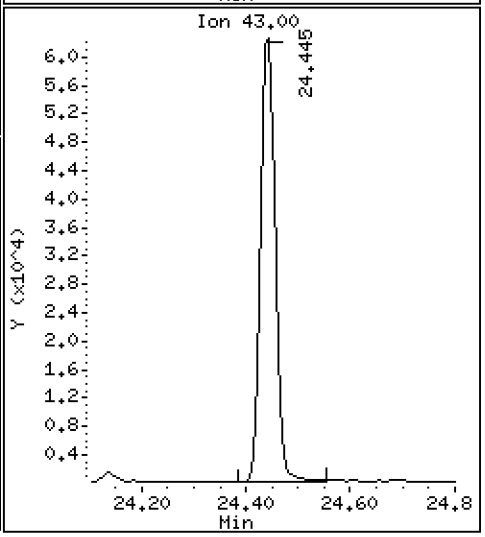


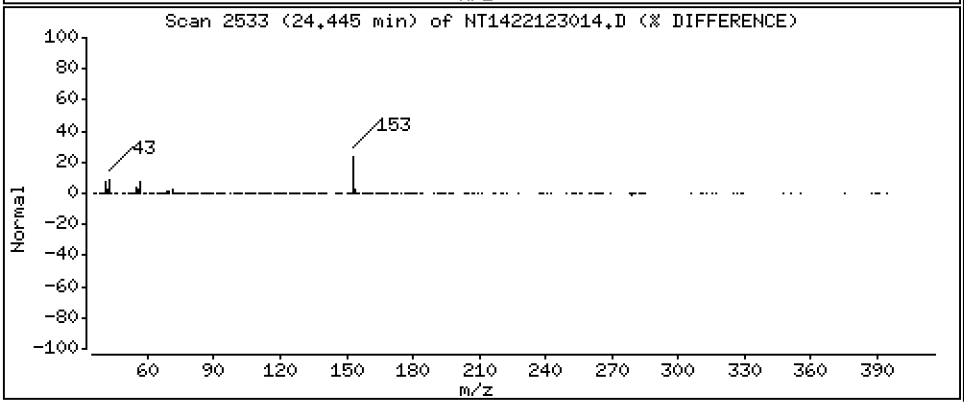












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

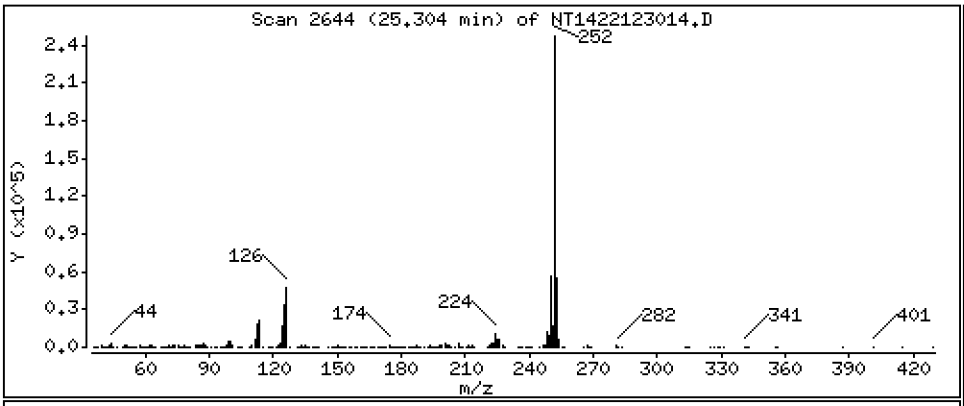
Operator: VTS

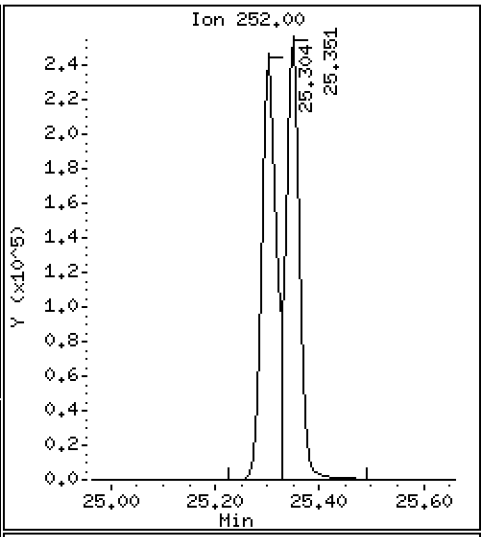
Column phase: ZB-5msi

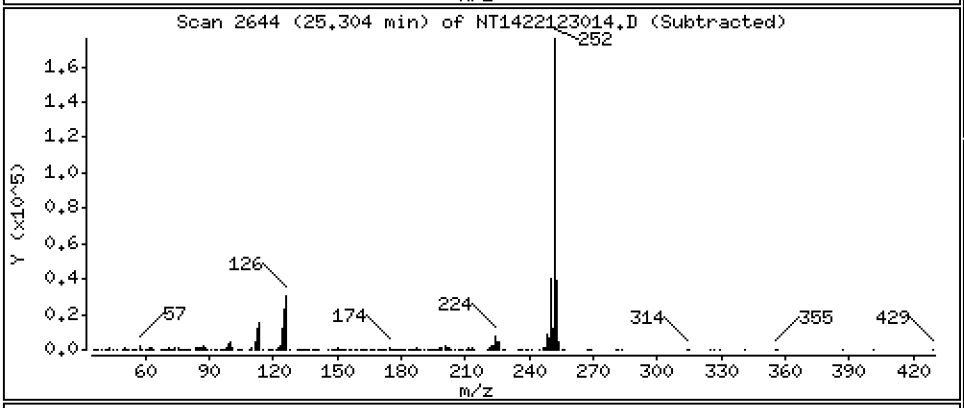
Column diameter: 0.25

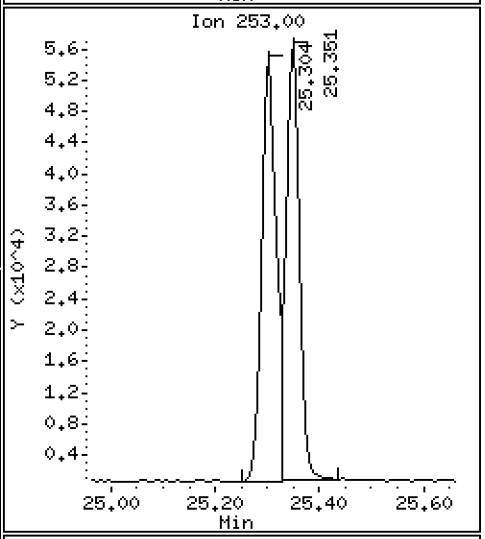
74 Benzo(b)fluoranthene

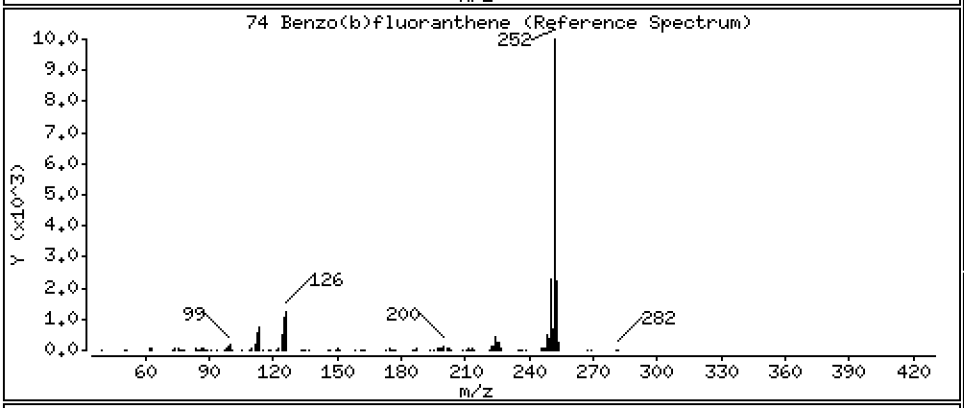
Concentration: 4.684 ug/mL

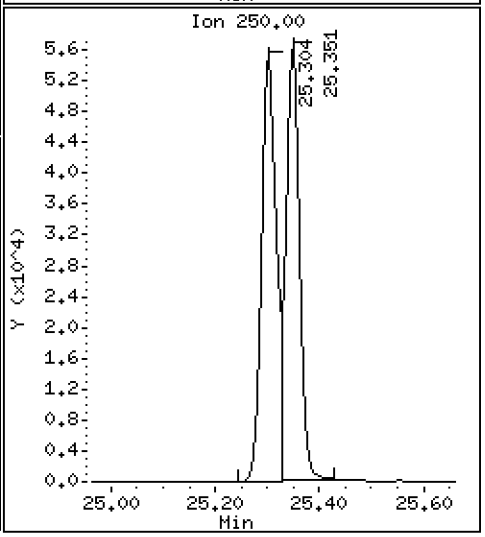


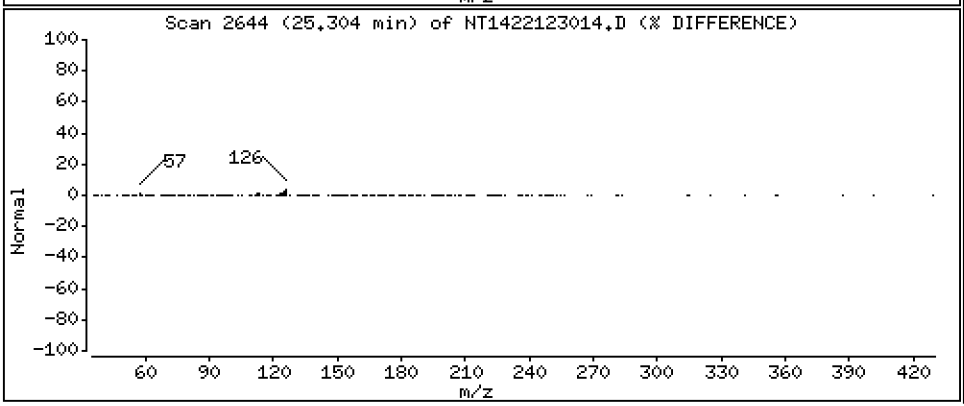












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

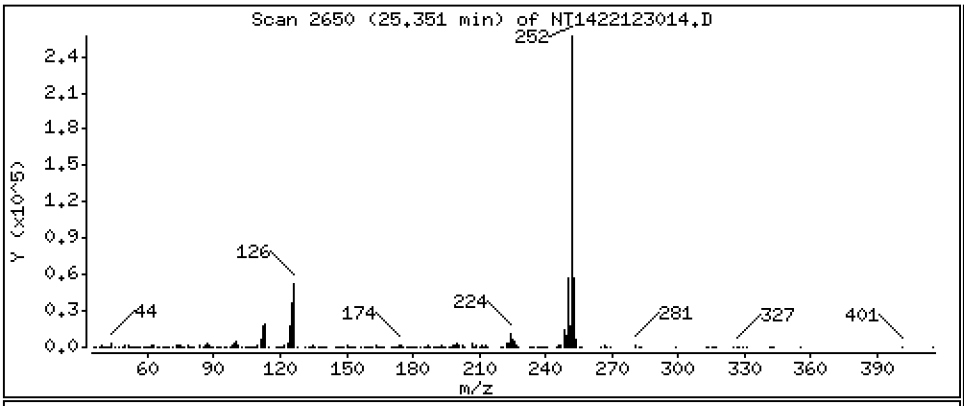
Operator: VTS

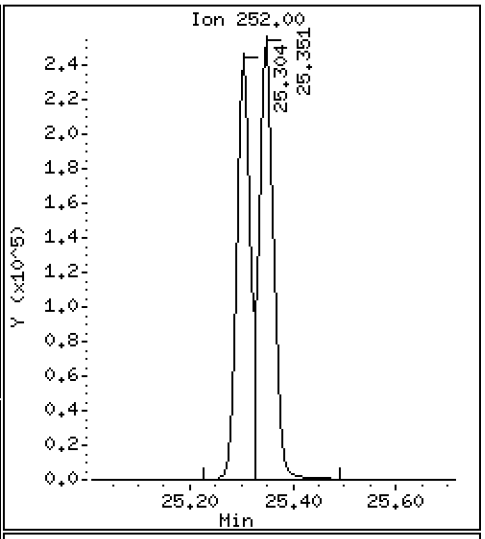
Column phase: ZB-5msi

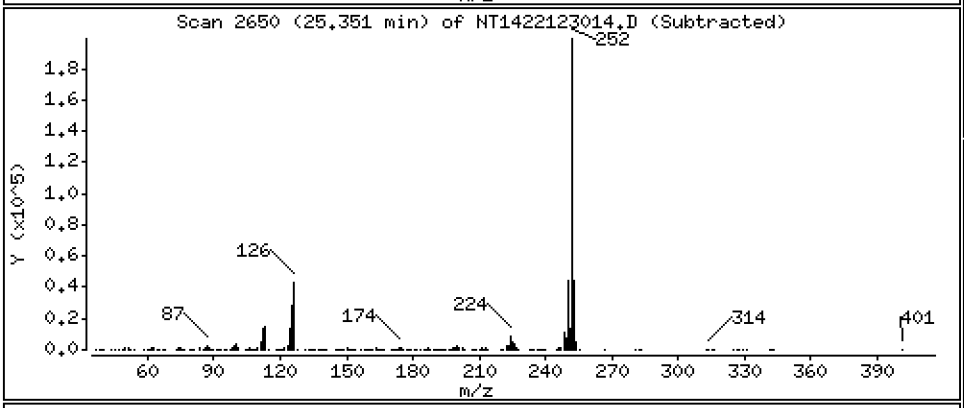
Column diameter: 0.25

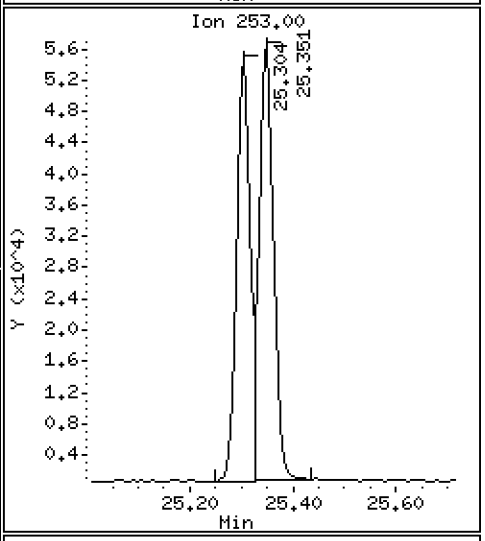
75 Benzo(k)fluoranthene

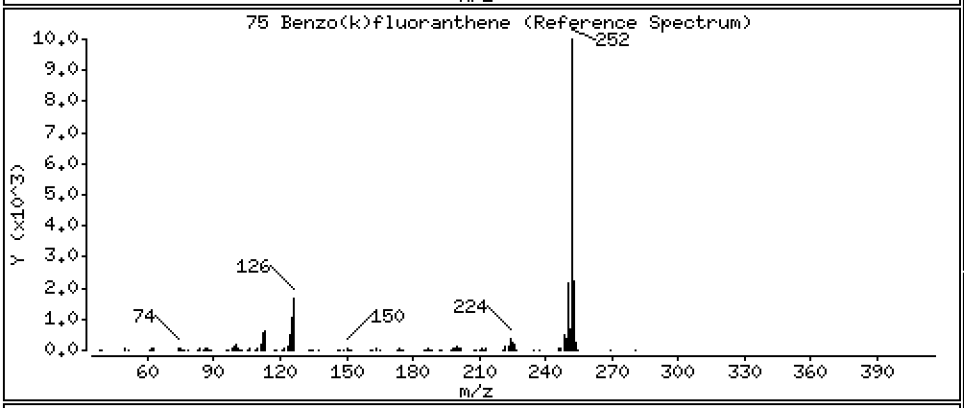
Concentration: 4.733 ug/mL

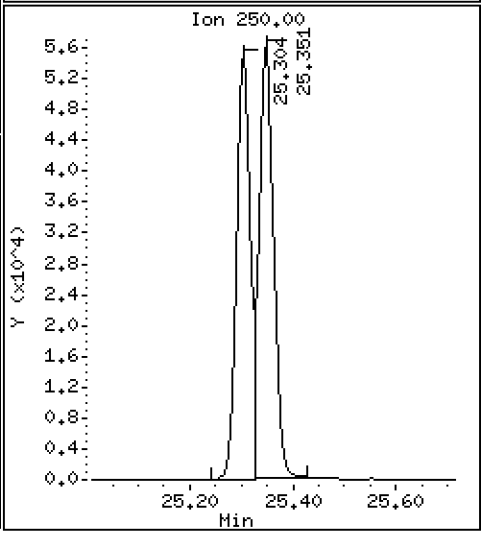


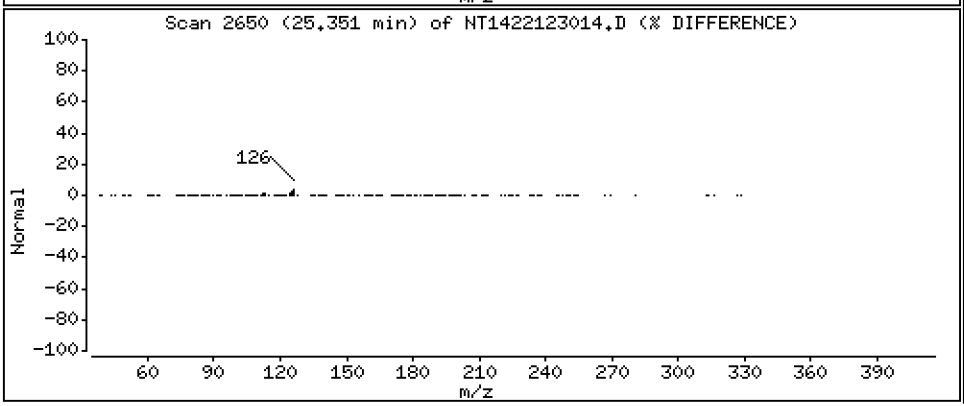












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

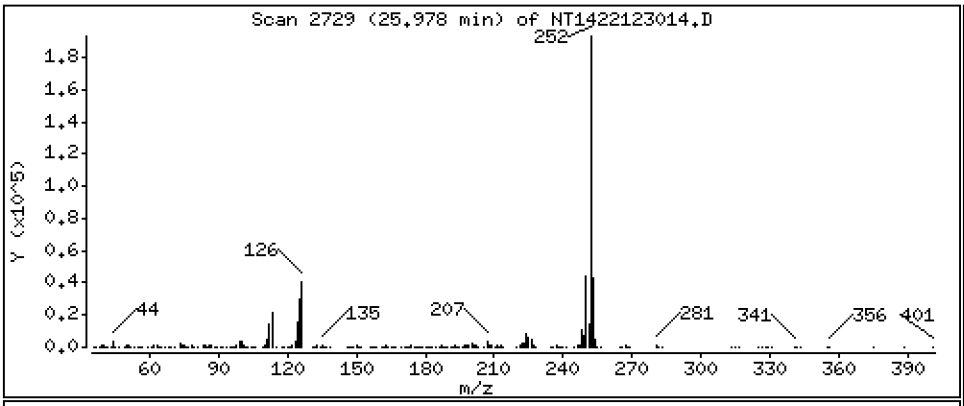
Operator: VTS

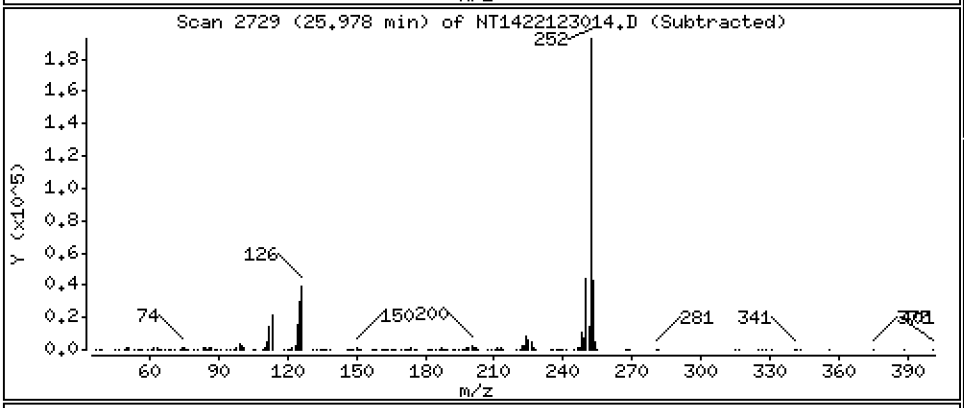
Column phase: ZB-5msi

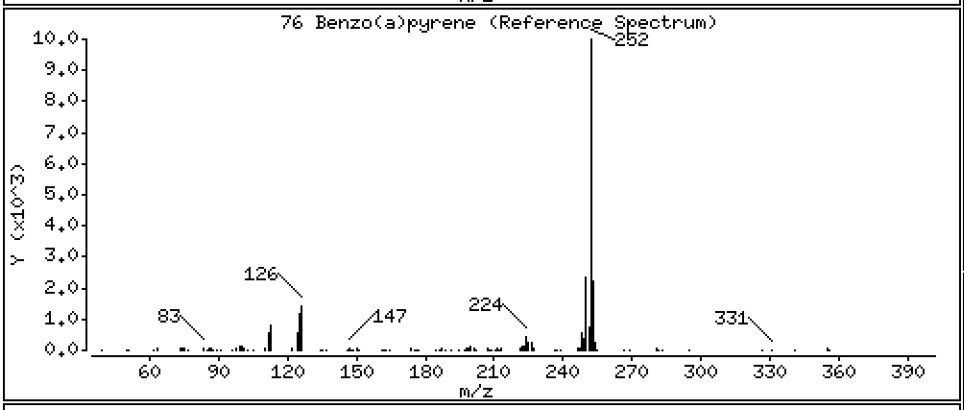
Column diameter: 0.25

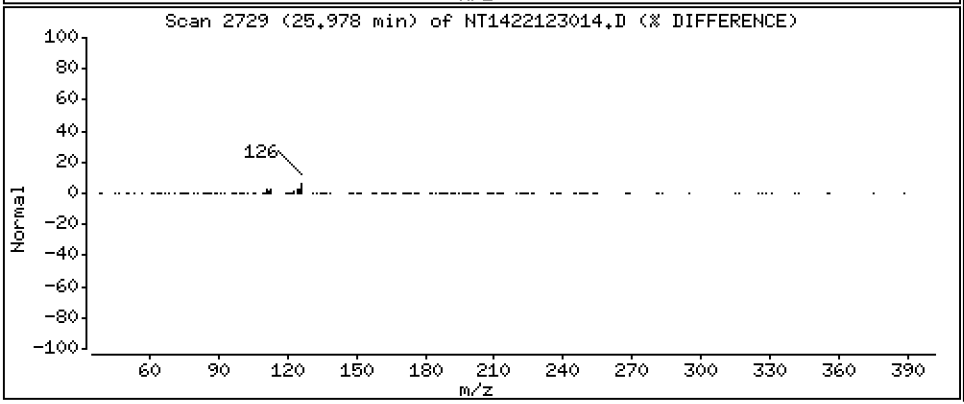
76 Benzo(a)pyrene

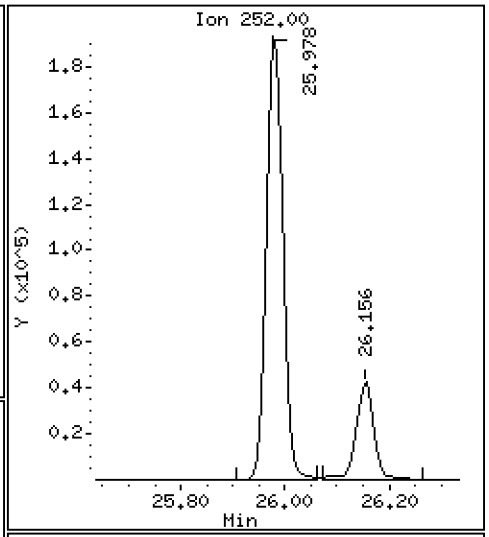
Concentration: 4.820 ug/mL

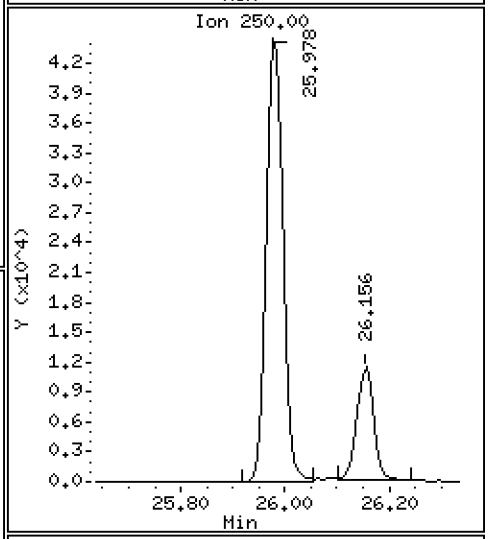


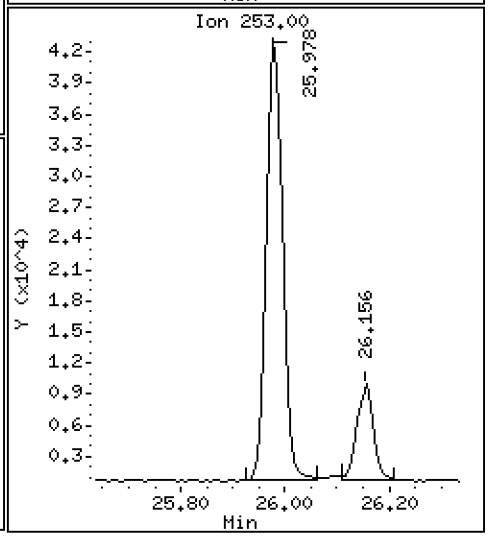












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

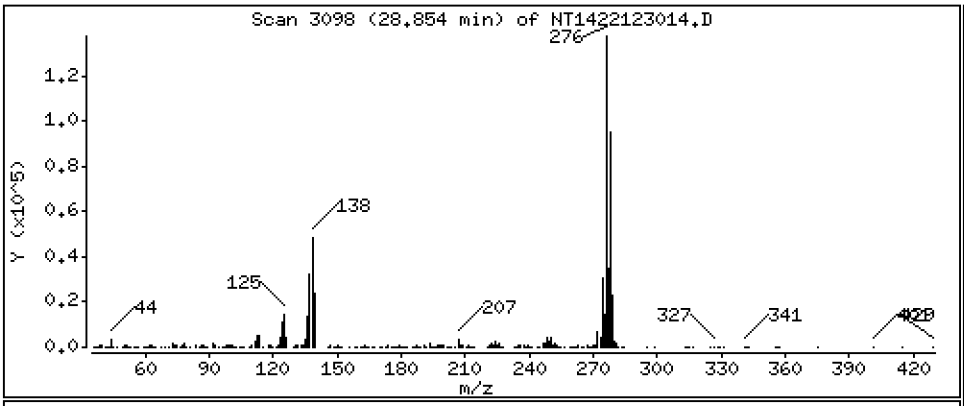
Operator: VTS

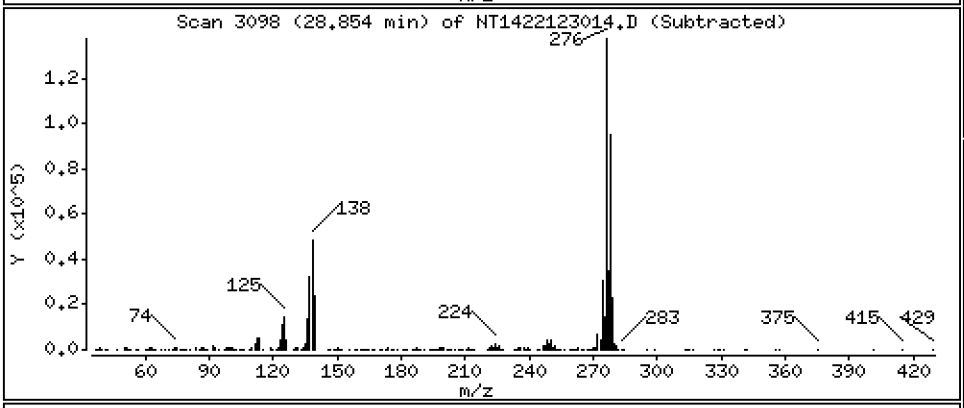
Column phase: ZB-5msi

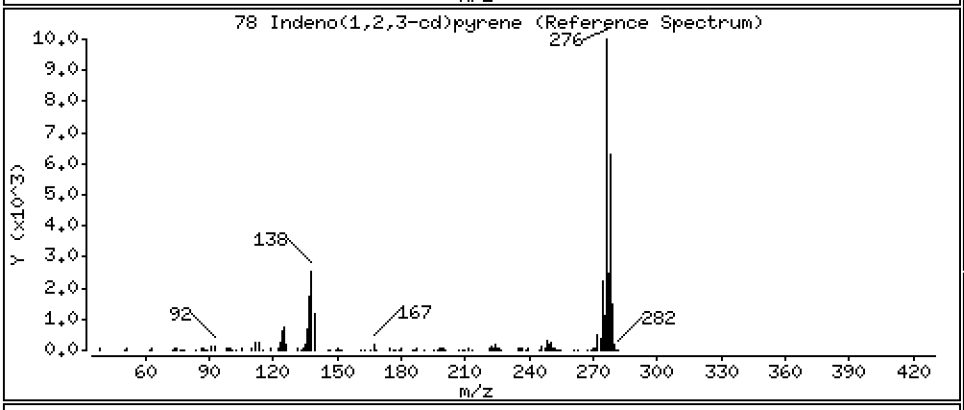
Column diameter: 0.25

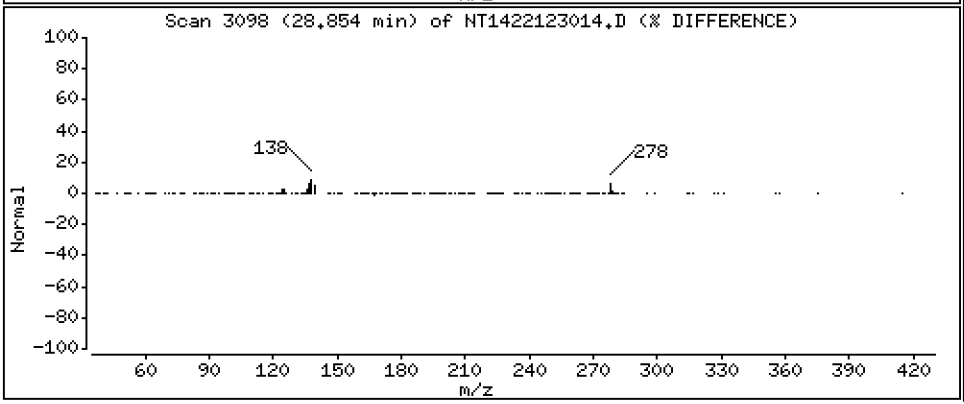
78 Indeno(1,2,3-cd)pyrene

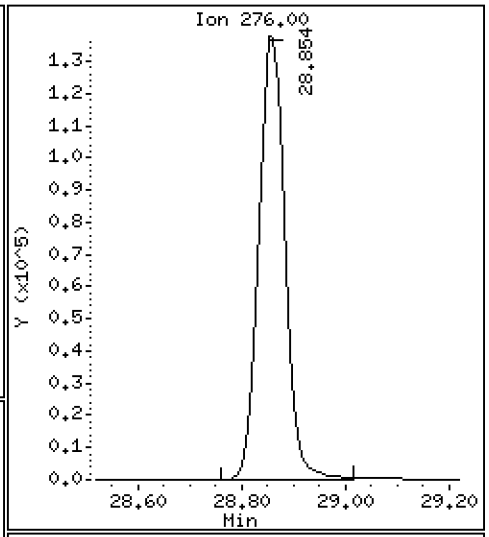
Concentration: 4.935 ug/mL

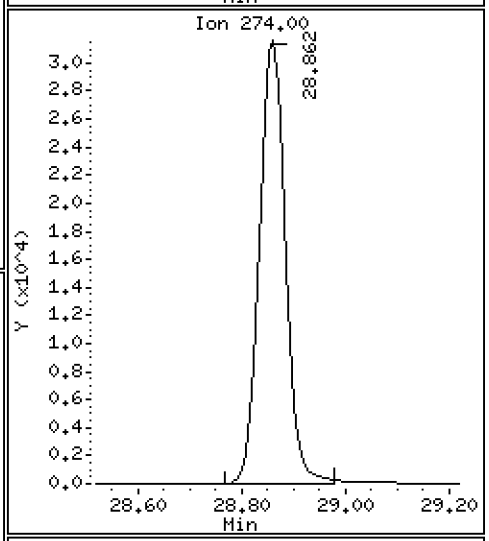


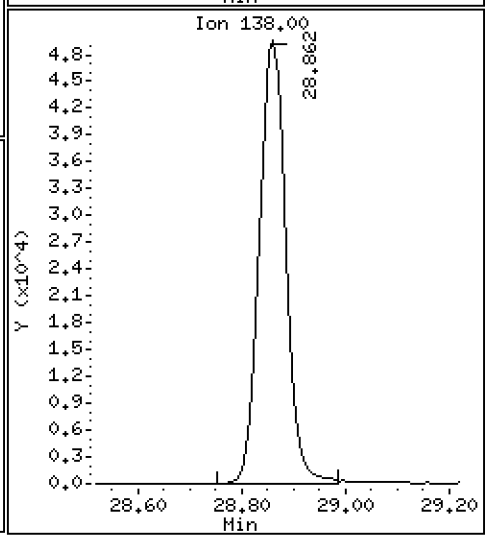












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

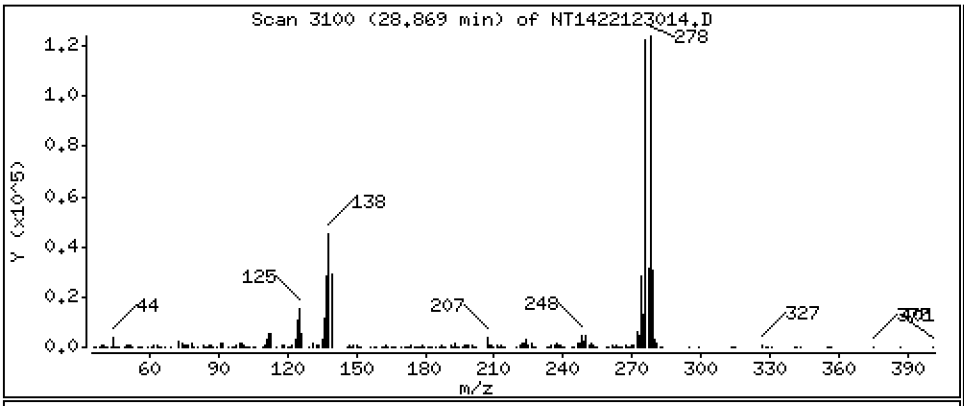
Operator: VTS

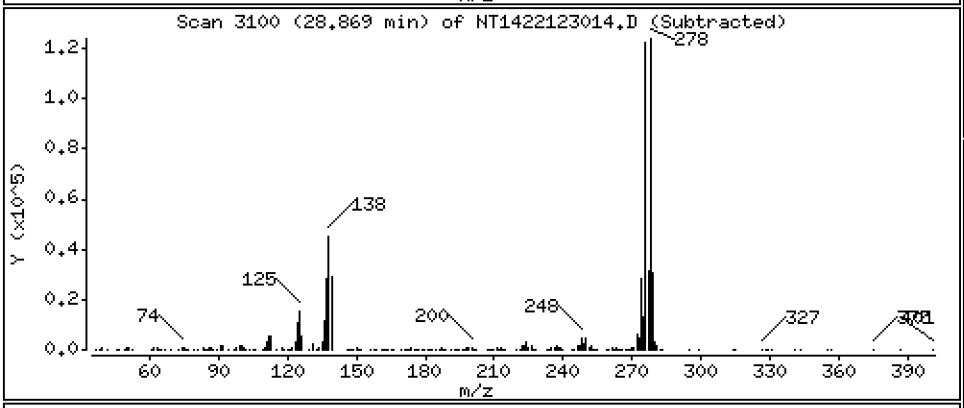
Column phase: ZB-5msi

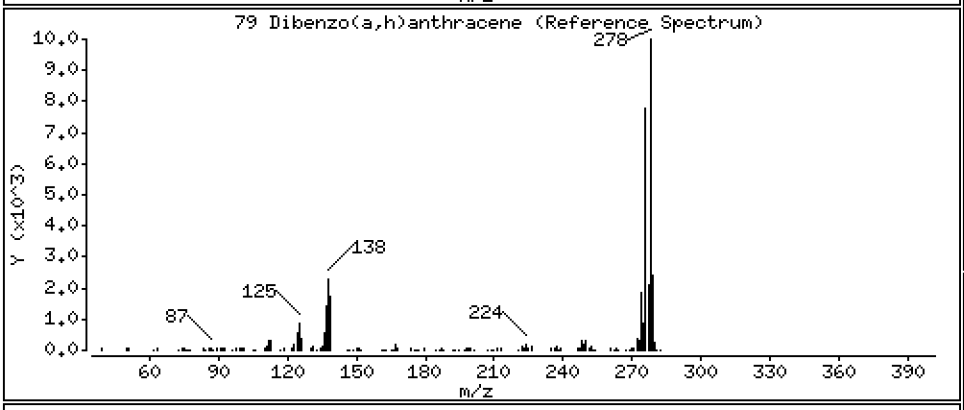
Column diameter: 0.25

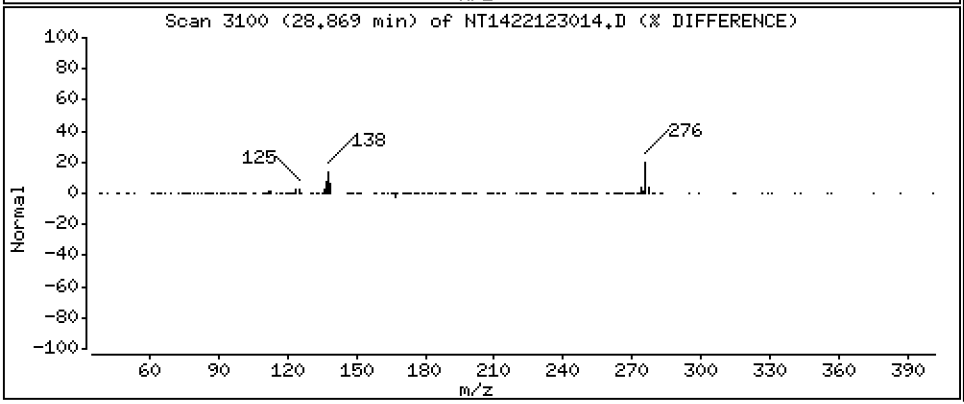
79 Dibenzo(a,h)anthracene

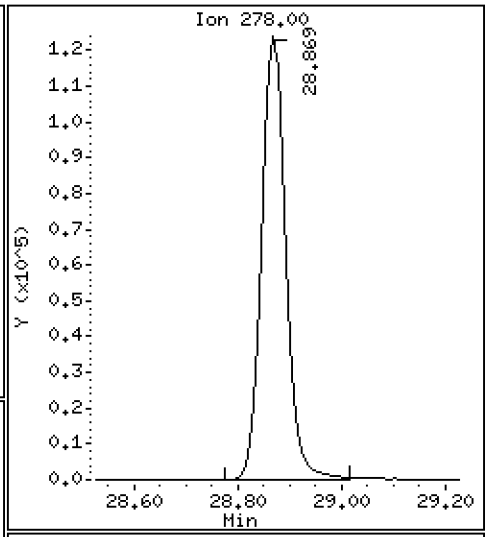
Concentration: 4.786 ug/mL

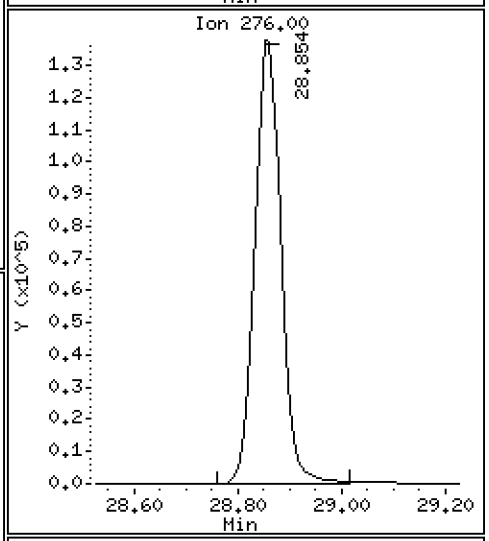


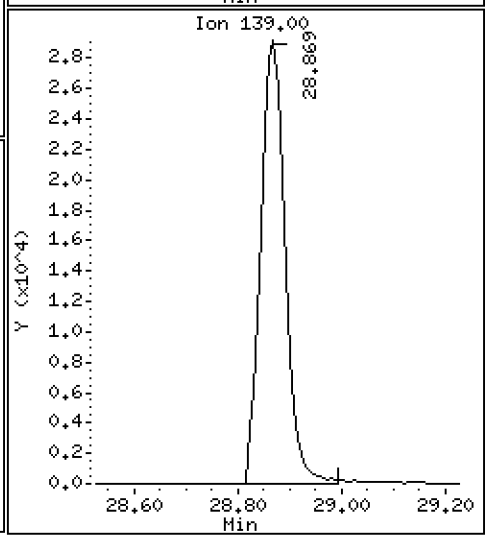












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

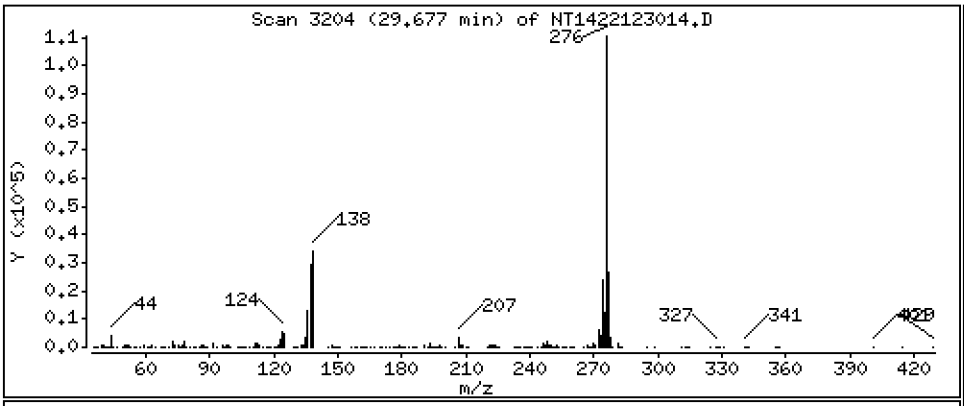
Operator: VTS

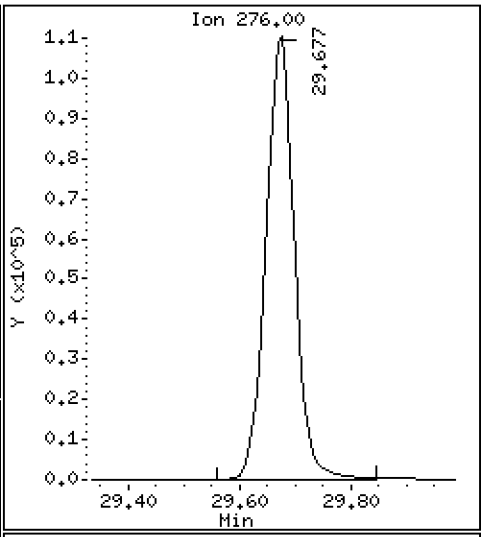
Column phase: ZB-5msi

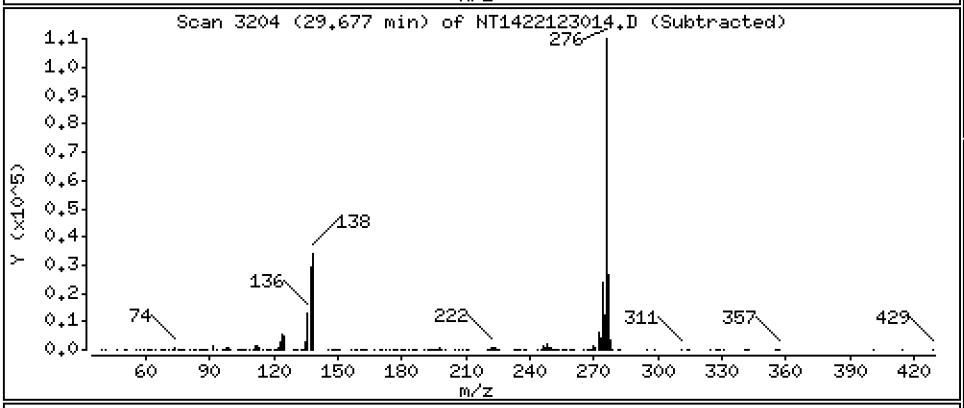
Column diameter: 0.25

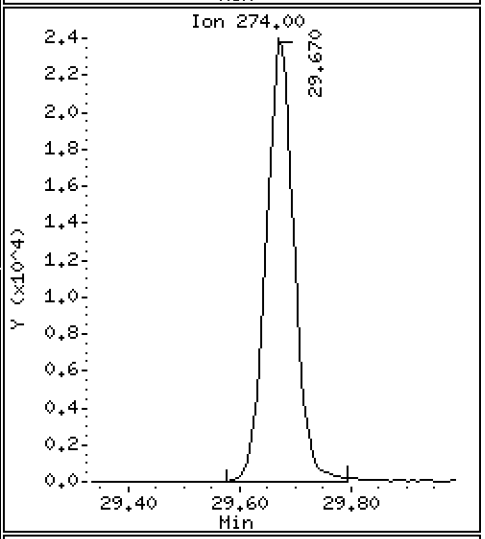
80 Benzo(g,h,i)perylene

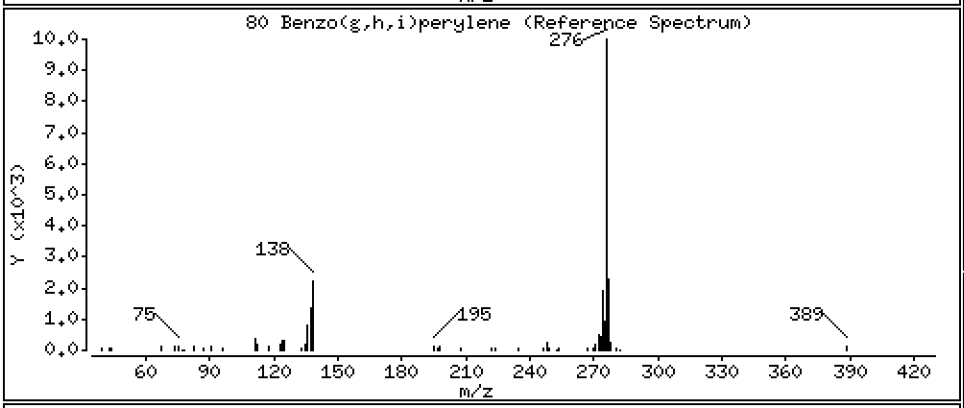
Concentration: 4.899 ug/mL

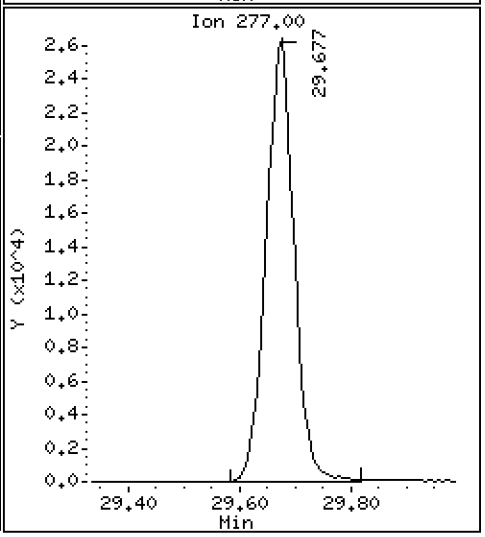


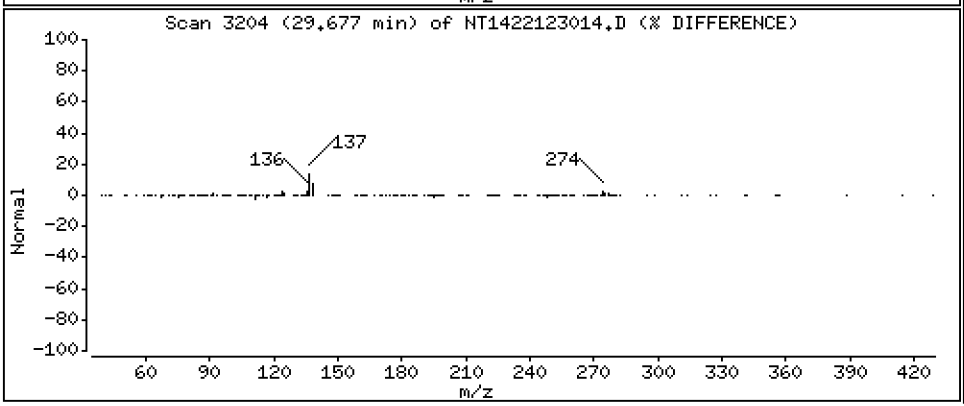












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

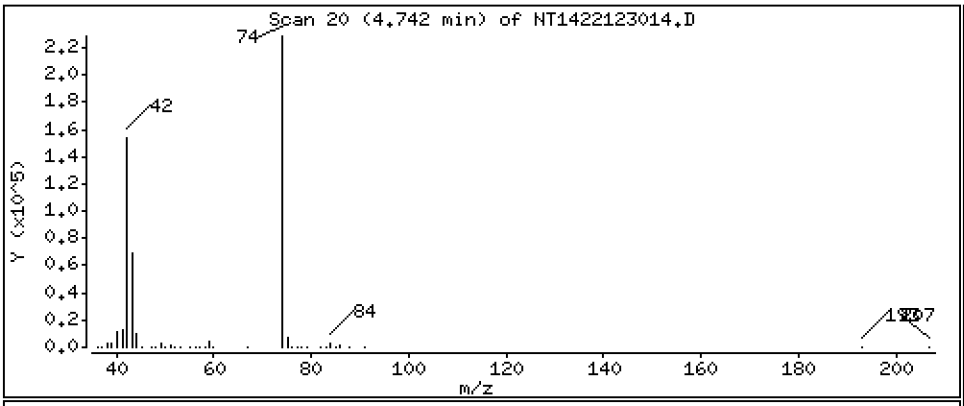
Operator: VTS

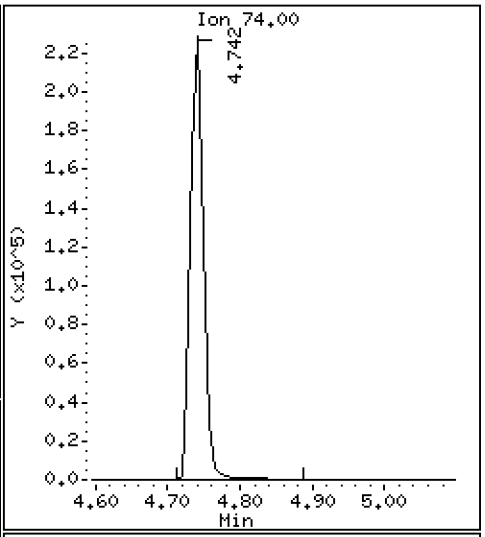
Column phase: ZB-5msi

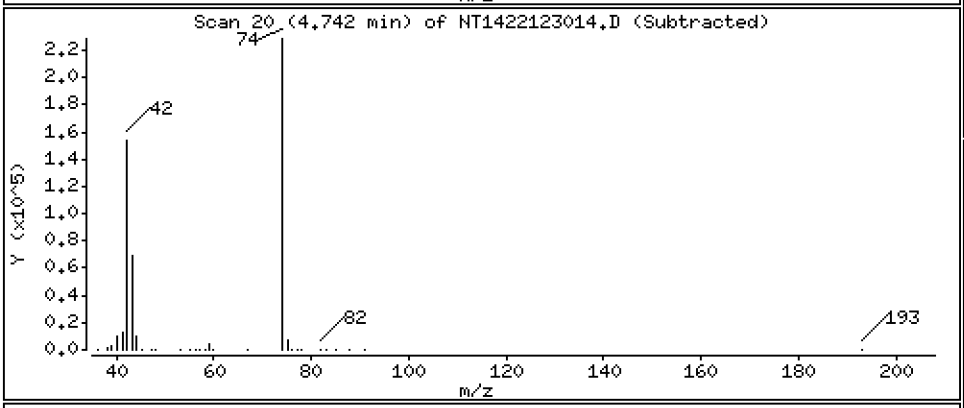
Column diameter: 0.25

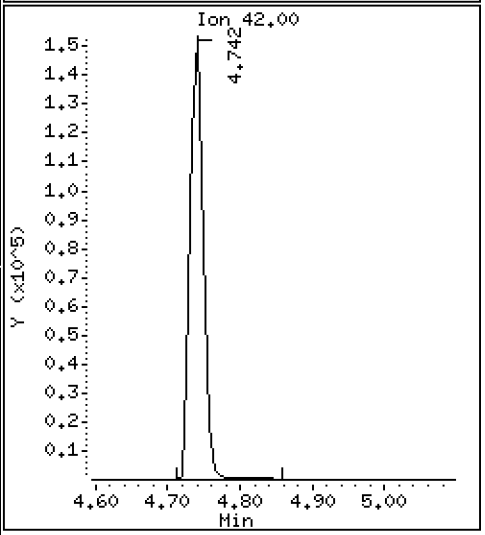
90 N-Nitrosodimethylamine

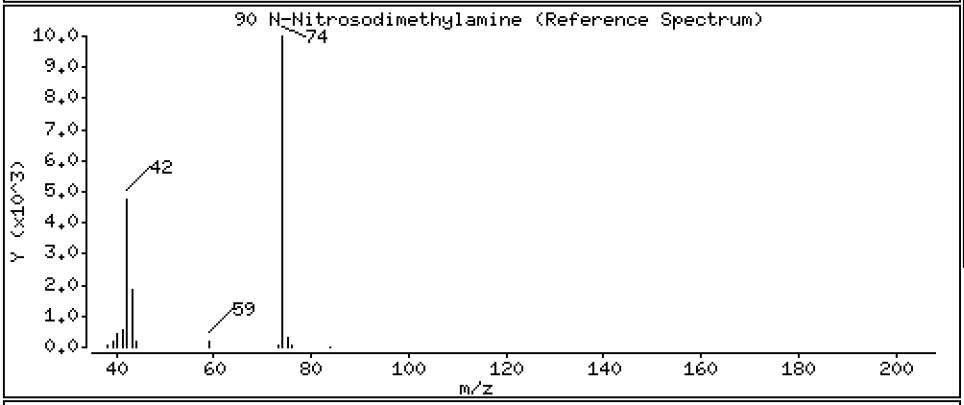
Concentration: 9.944 ug/mL

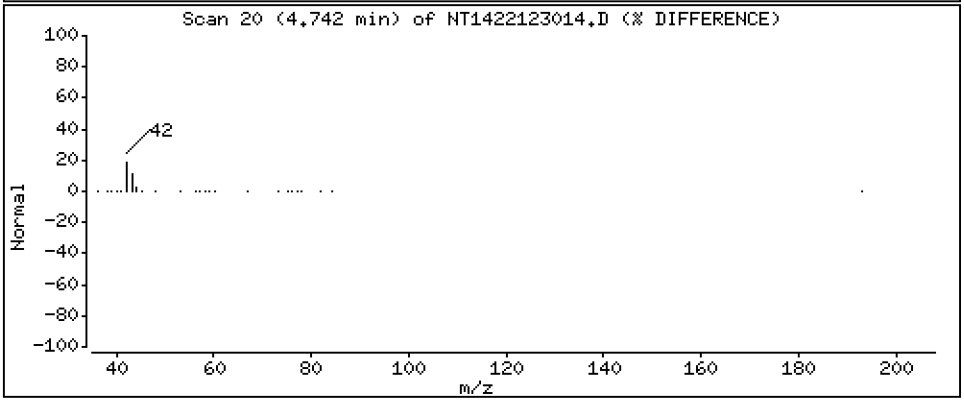












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

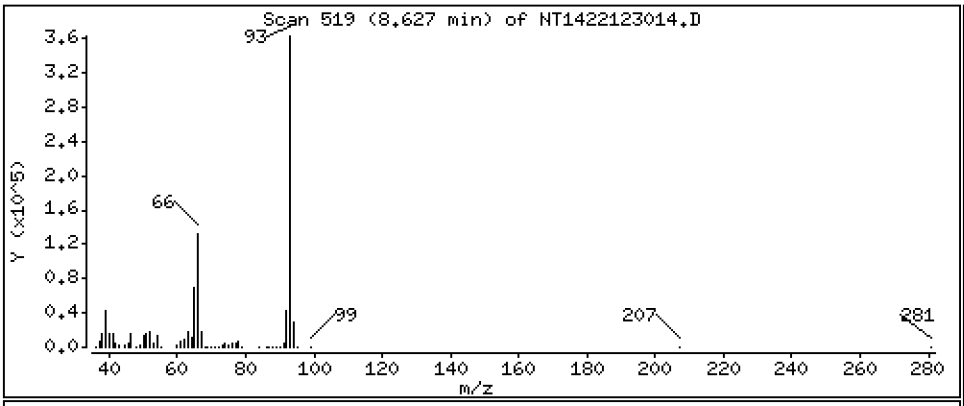
Operator: VTS

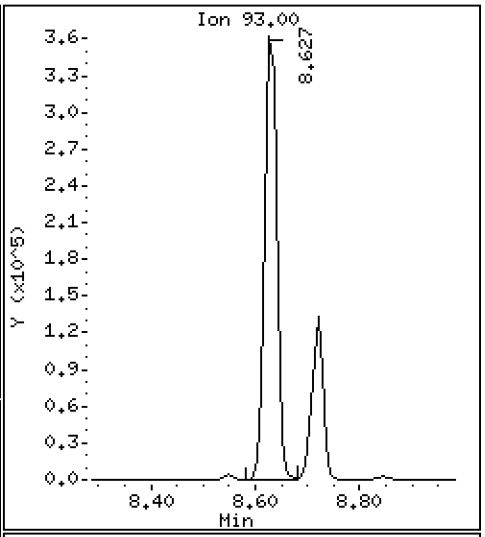
Column phase: ZB-5msi

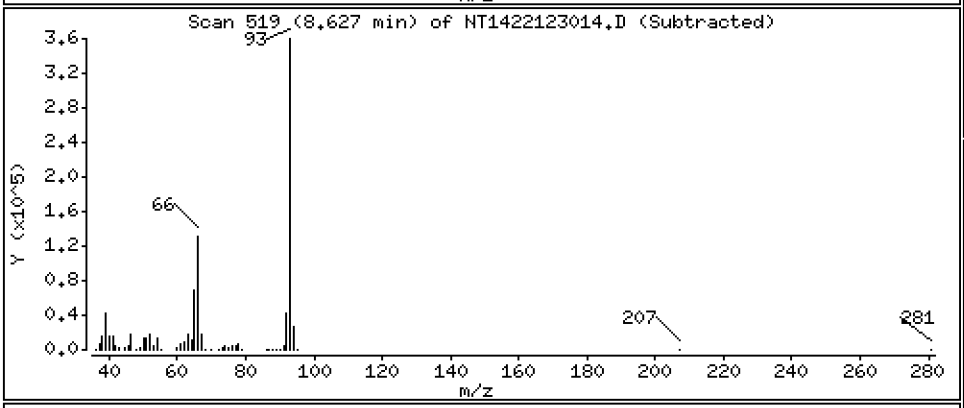
Column diameter: 0.25

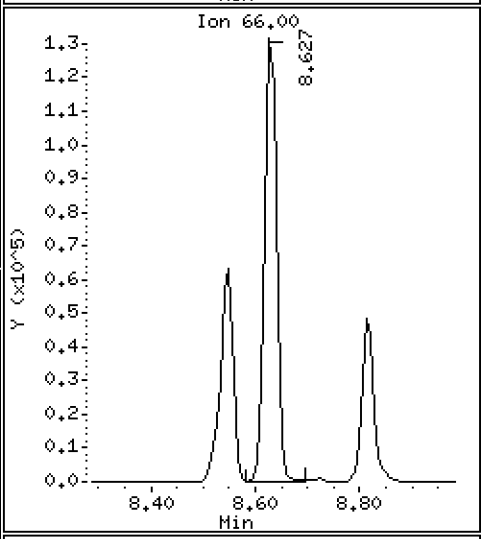
91 Aniline

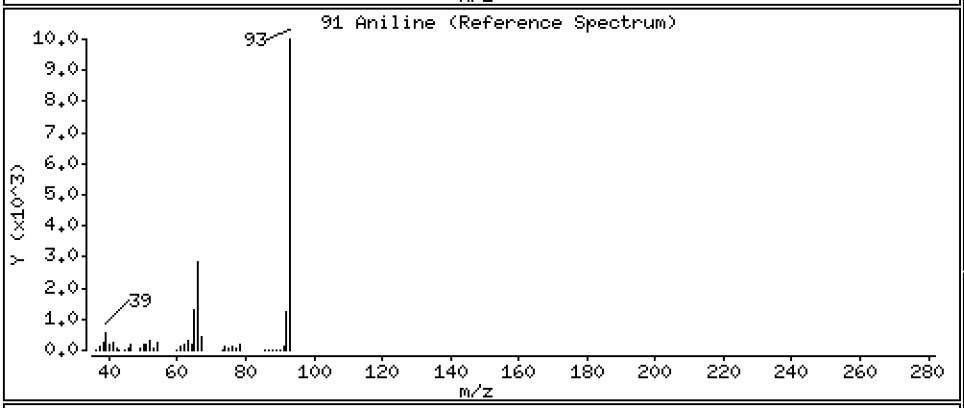
Concentration: 9.711 ug/mL

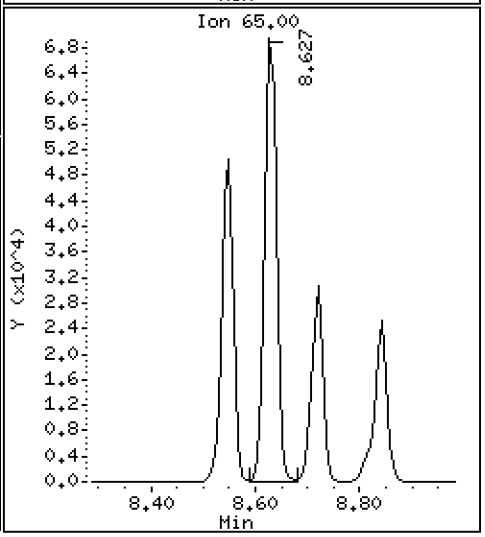


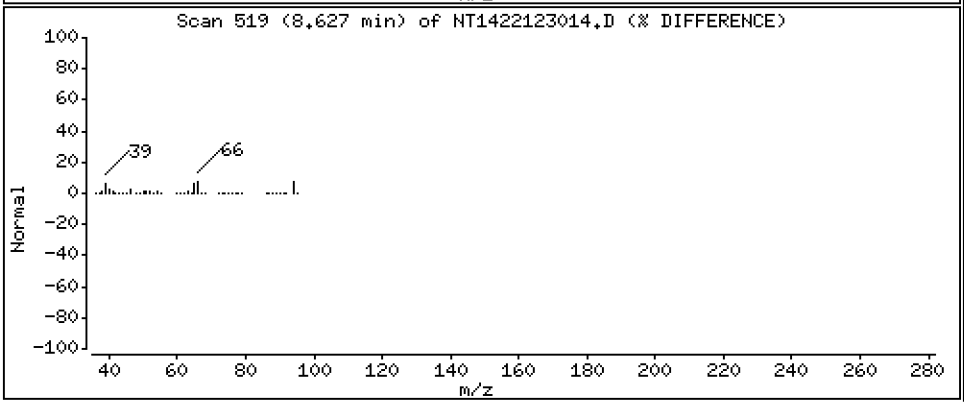












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

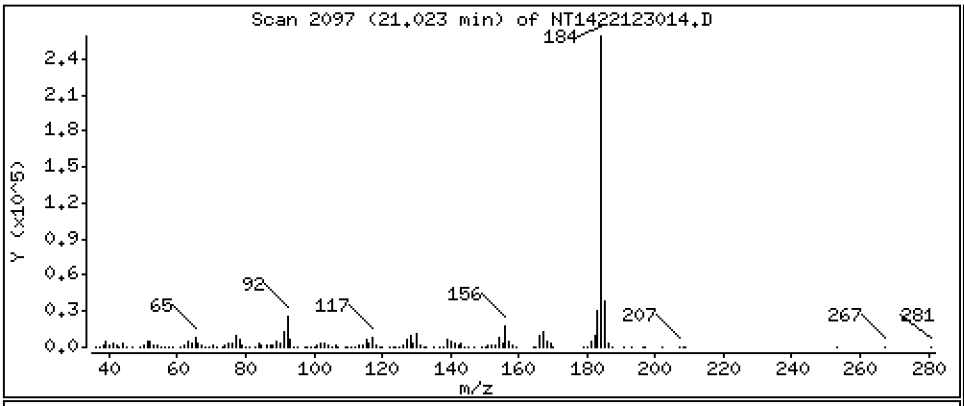
Operator: VTS

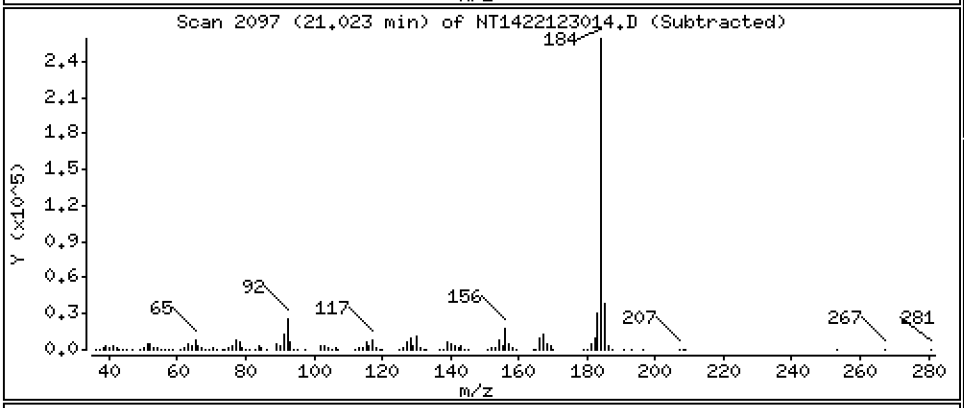
Column phase: ZB-5msi

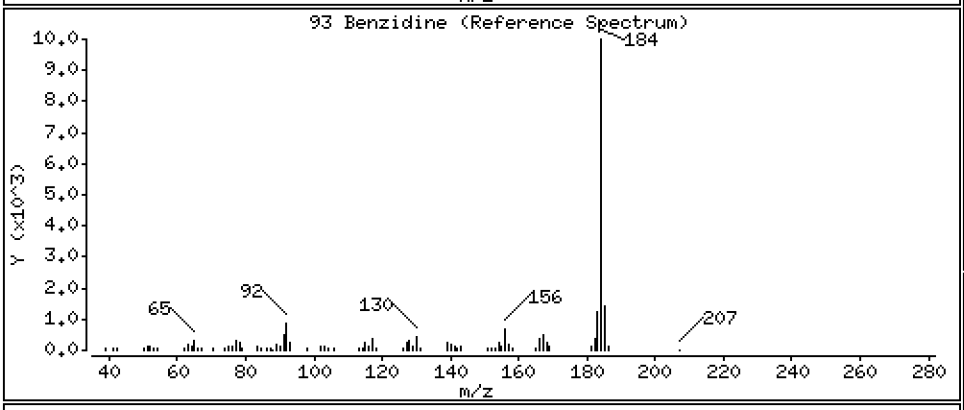
Column diameter: 0.25

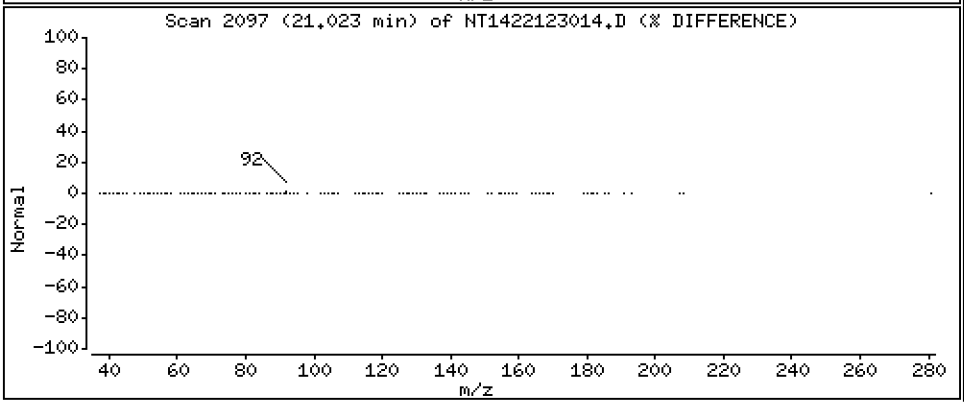
93 Benzidine

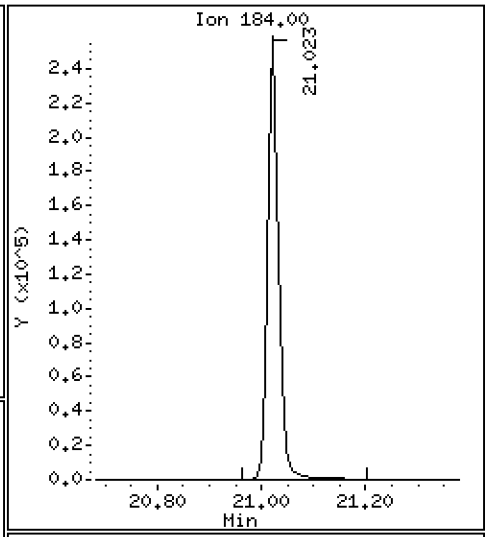
Concentration: 8.319 ug/mL

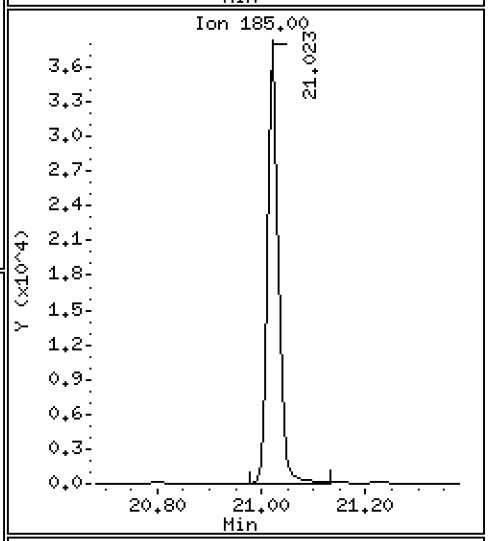


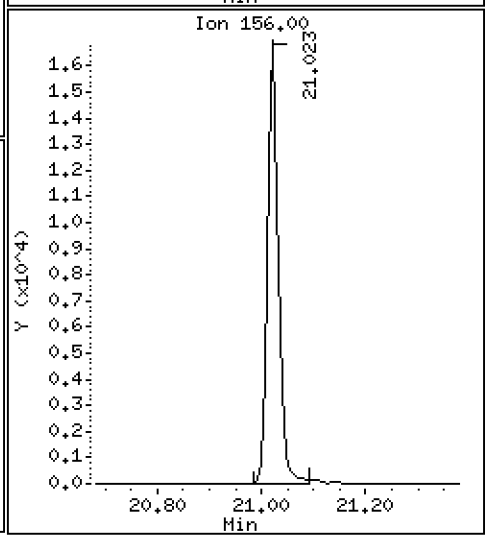












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

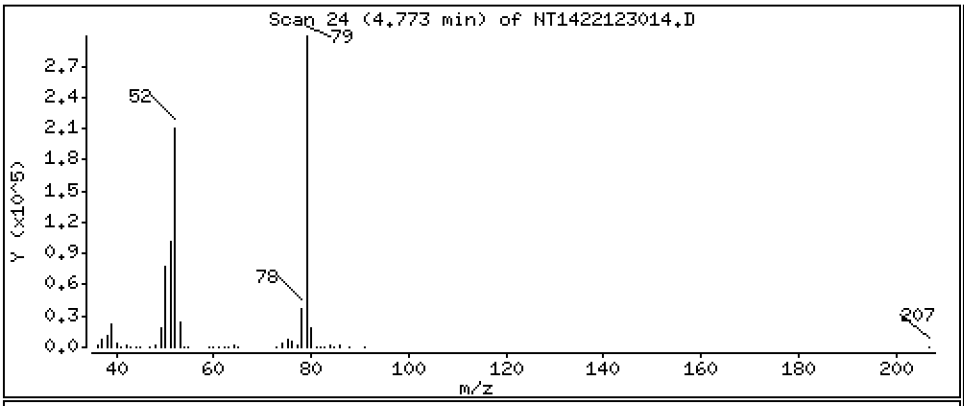
Operator: VTS

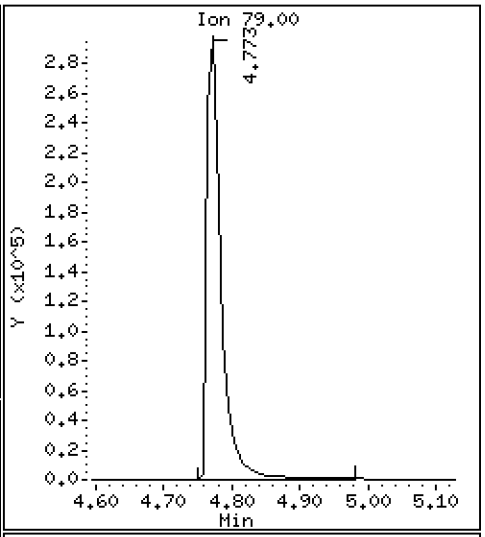
Column phase: ZB-5msi

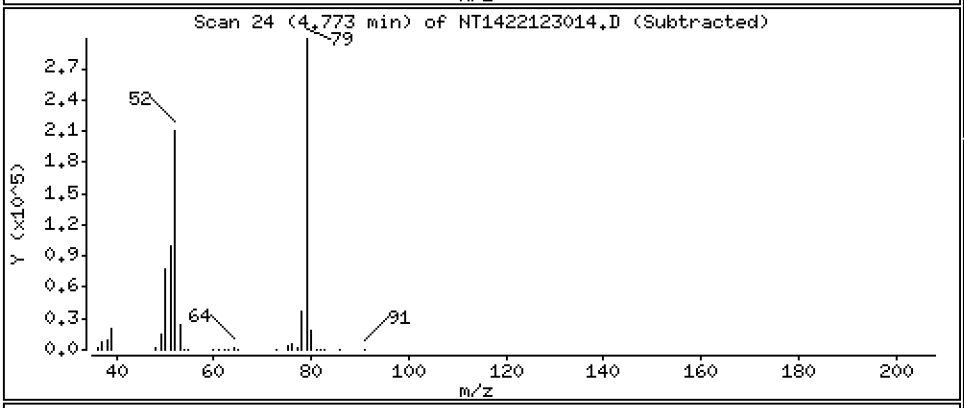
Column diameter: 0.25

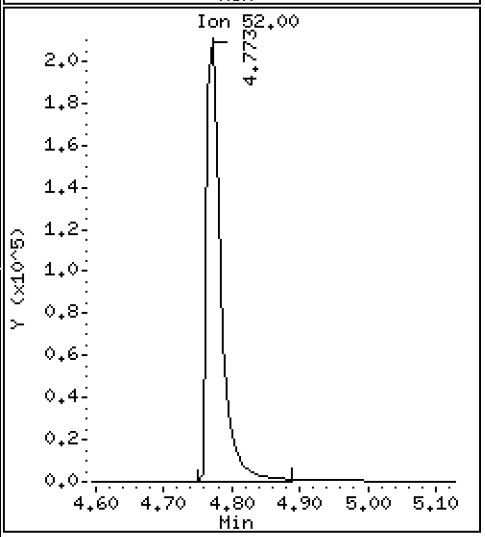
103 Pyridine

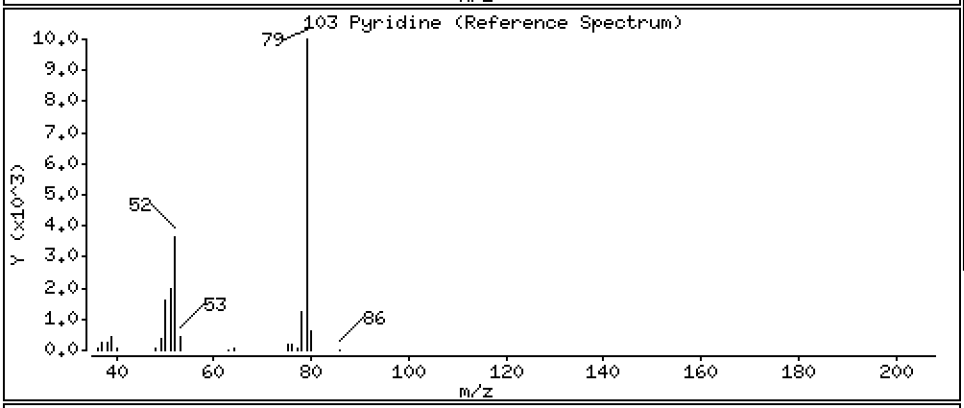
Concentration: 4.949 ug/mL

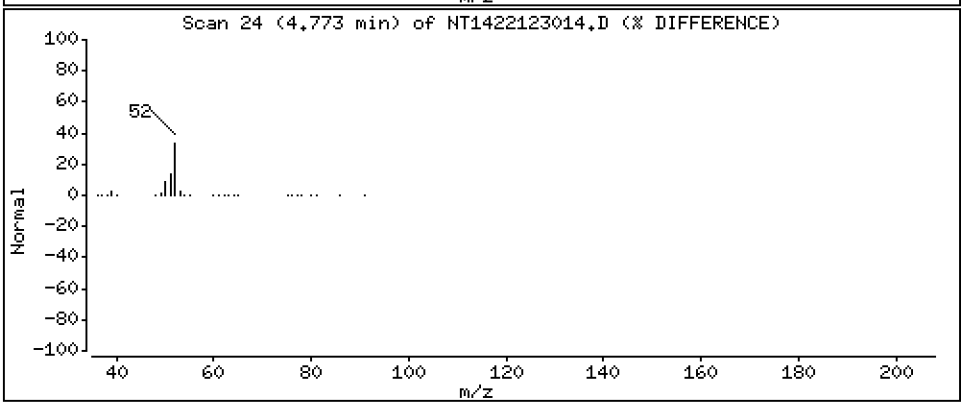












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

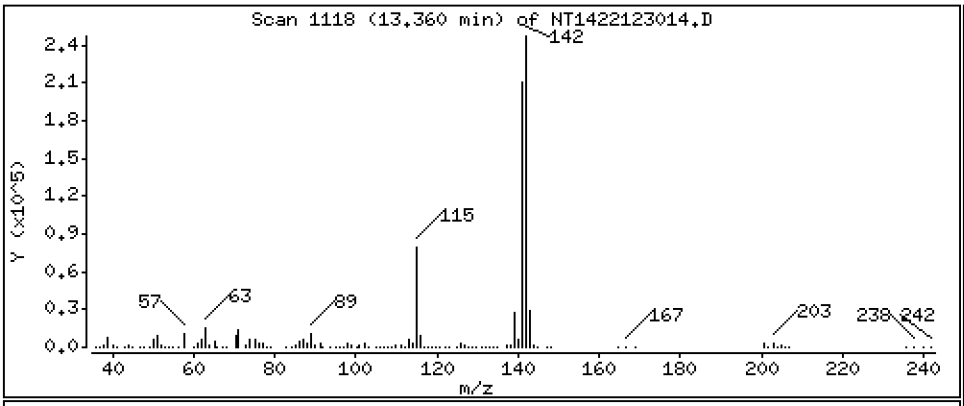
Operator: VTS

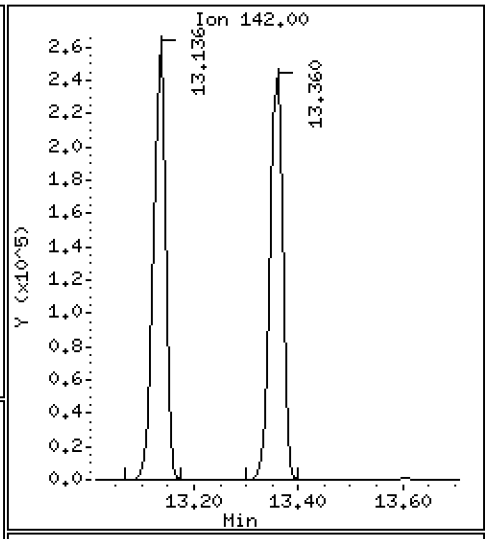
Column phase: ZB-5msi

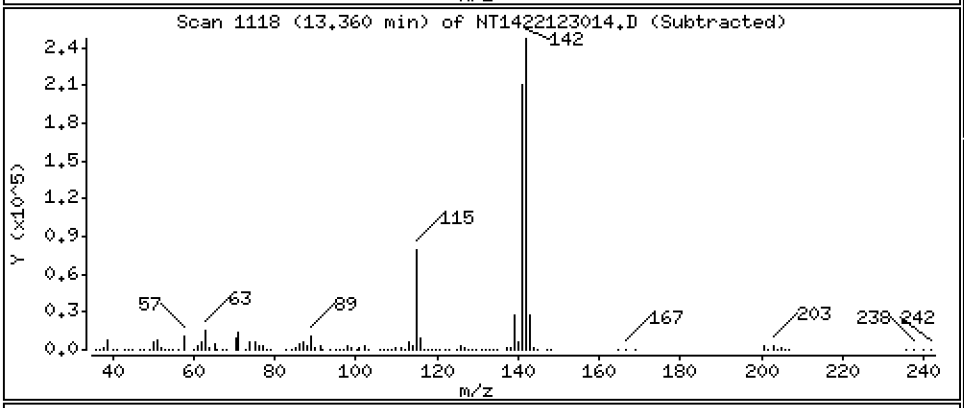
Column diameter: 0.25

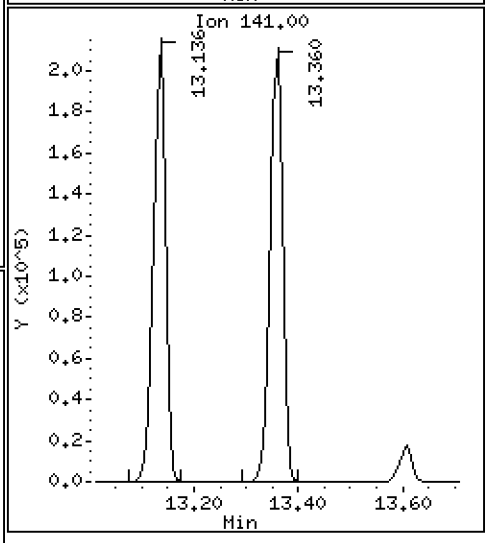
105 1-methylnaphthalene

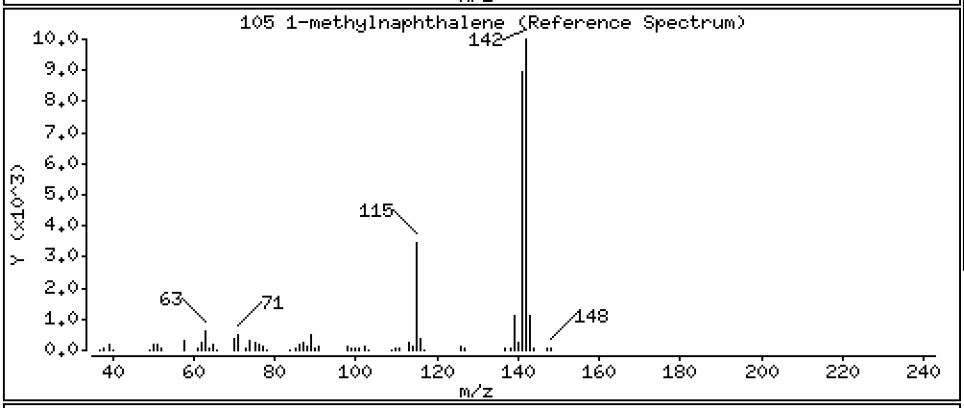
Concentration: 4.706 ug/mL

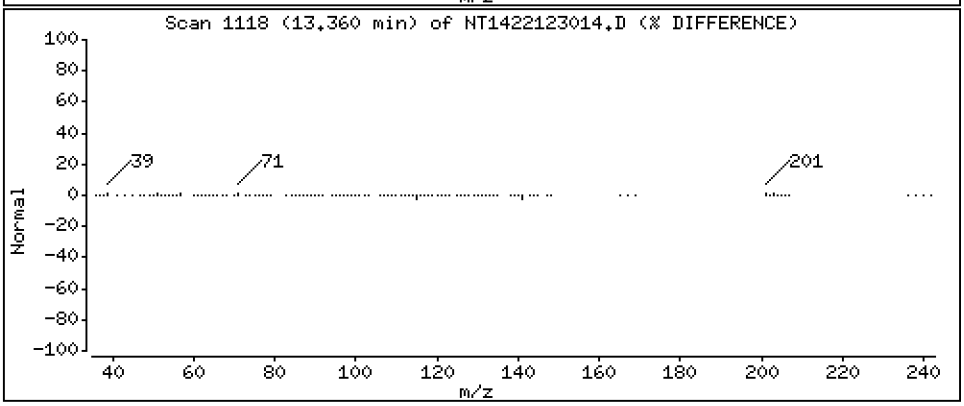












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

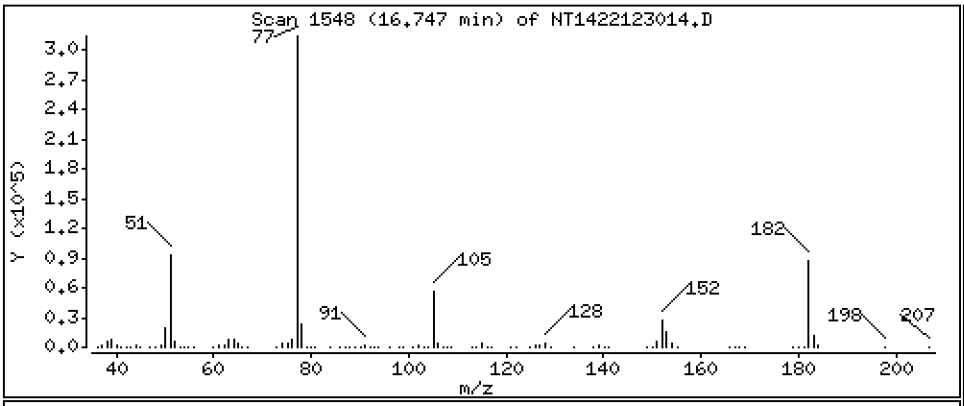
Operator: VTS

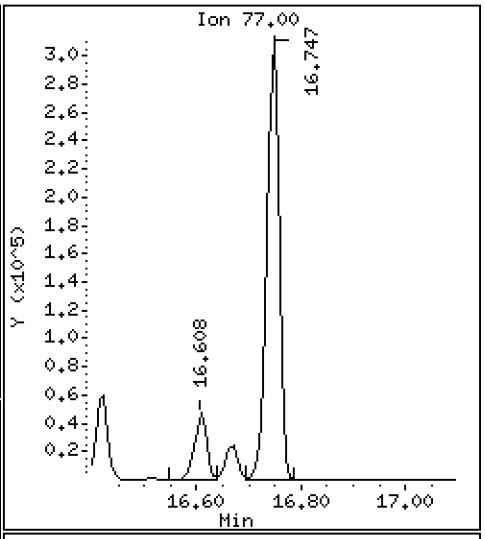
Column phase: ZB-5msi

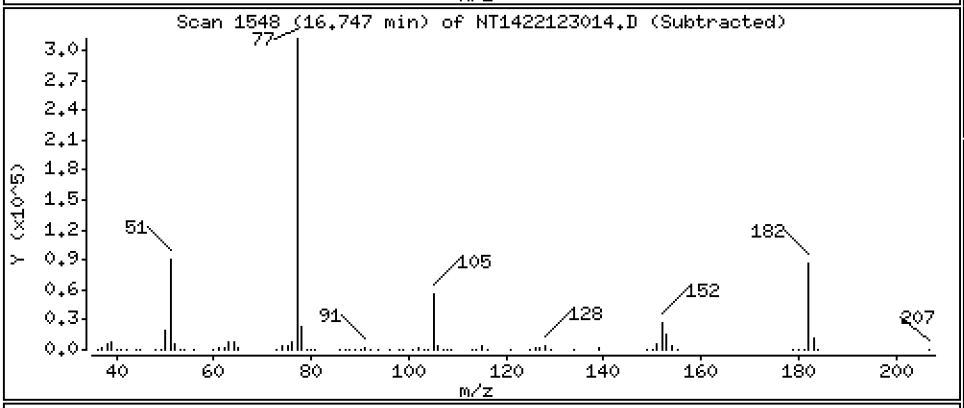
Column diameter: 0.25

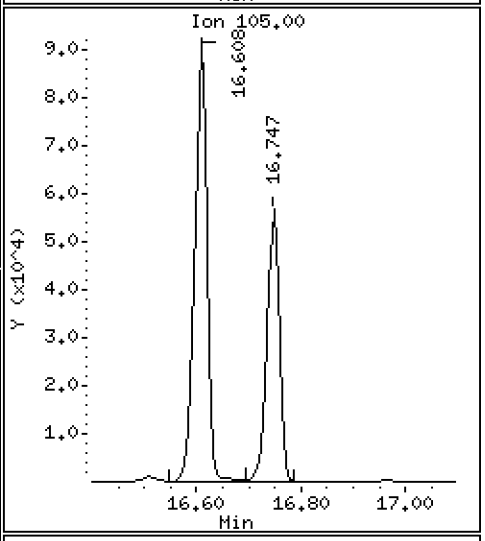
111 Azobenzene (1,2-DP-Hydrazine)

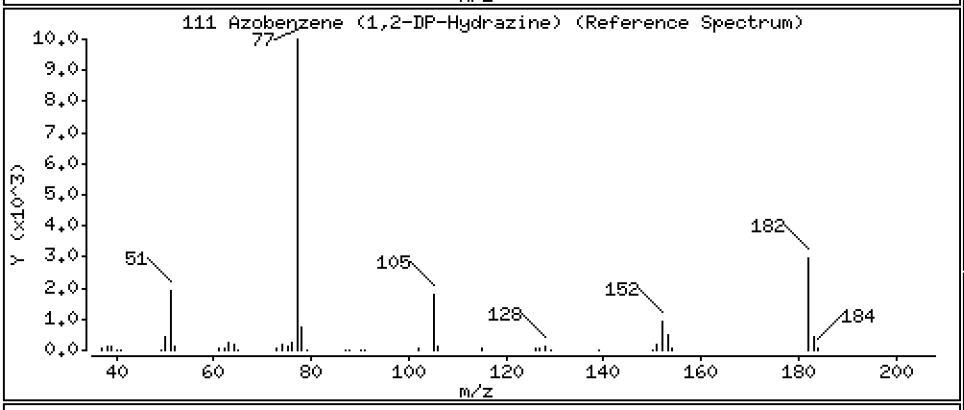
Concentration: 4.948 ug/mL

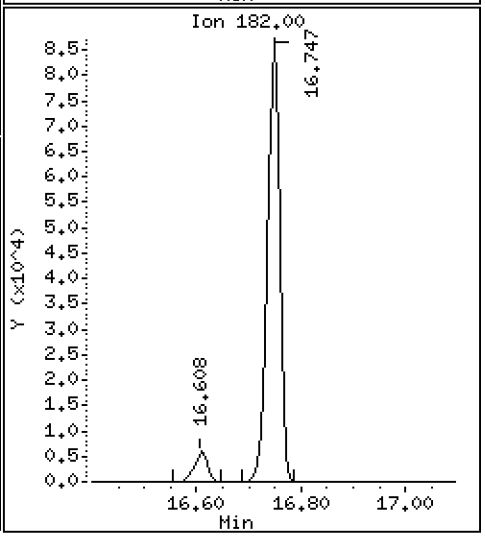


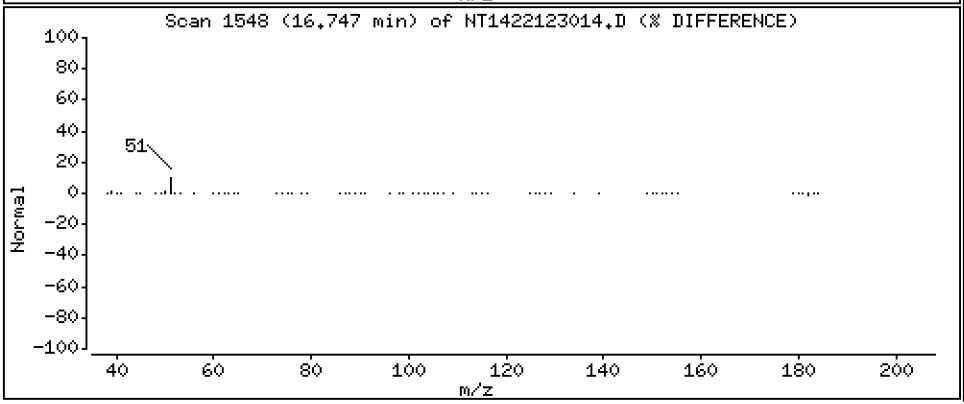












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

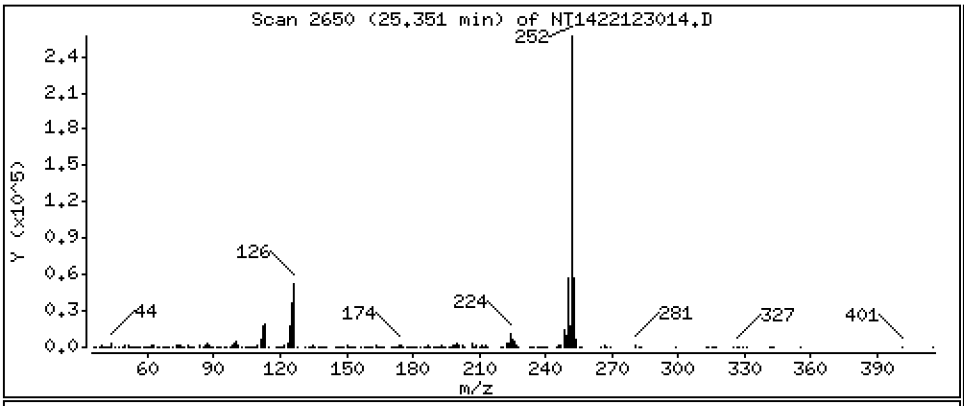
Operator: VTS

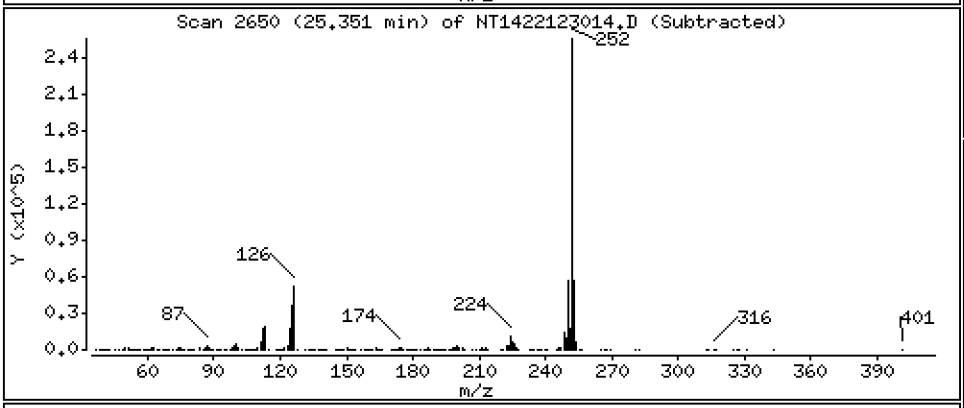
Column phase: ZB-5msi

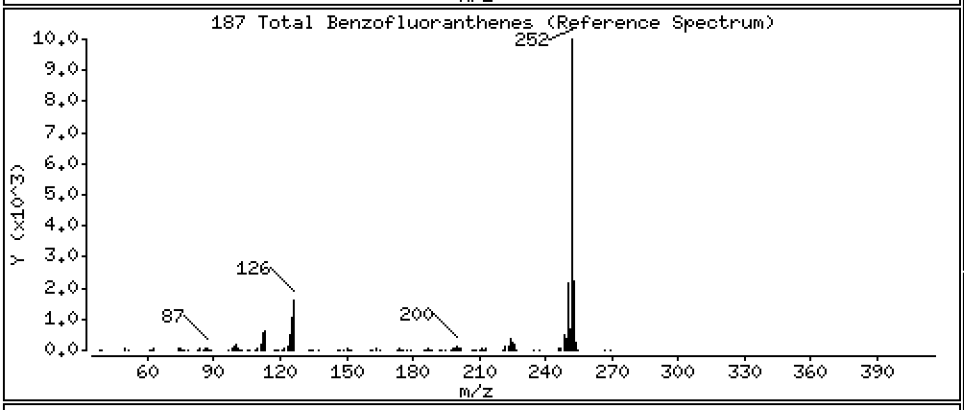
Column diameter: 0.25

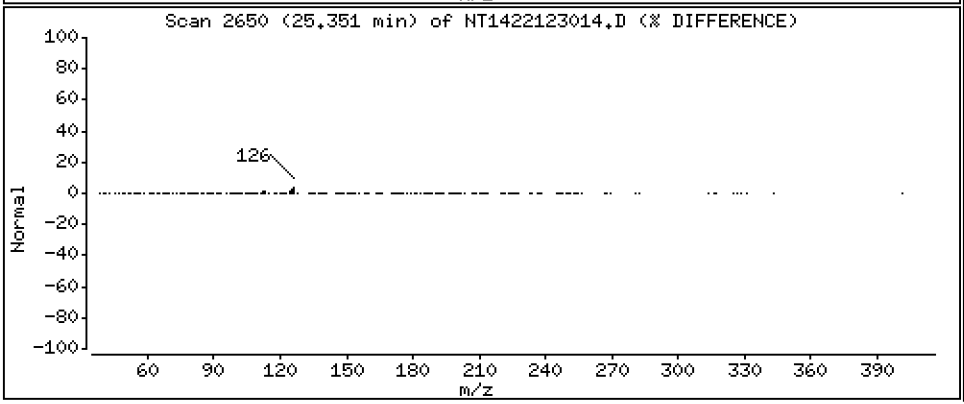
187 Total Benzofluoranthenes

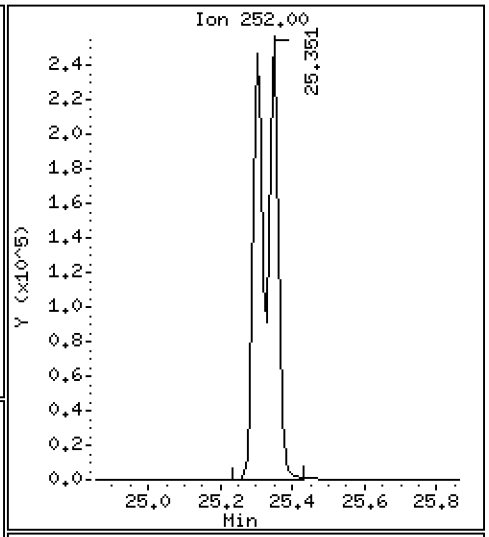
Concentration: 9.393 ug/mL

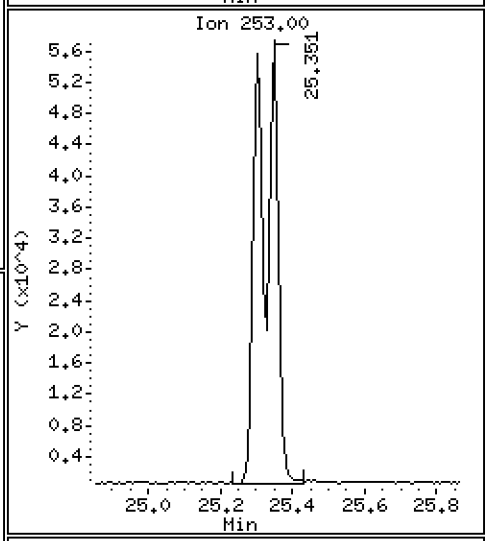


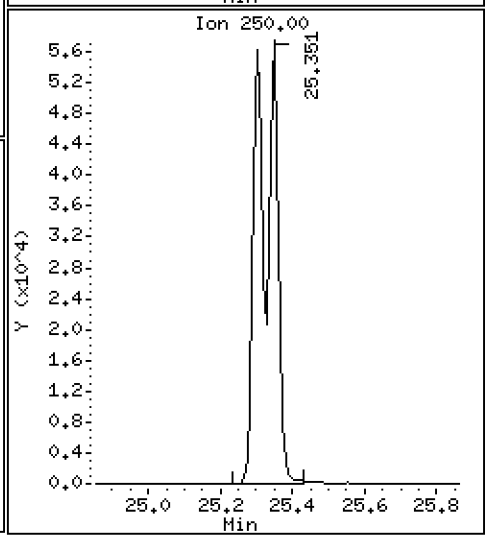












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Date : 30-DEC-2022 15:53

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-ICV2

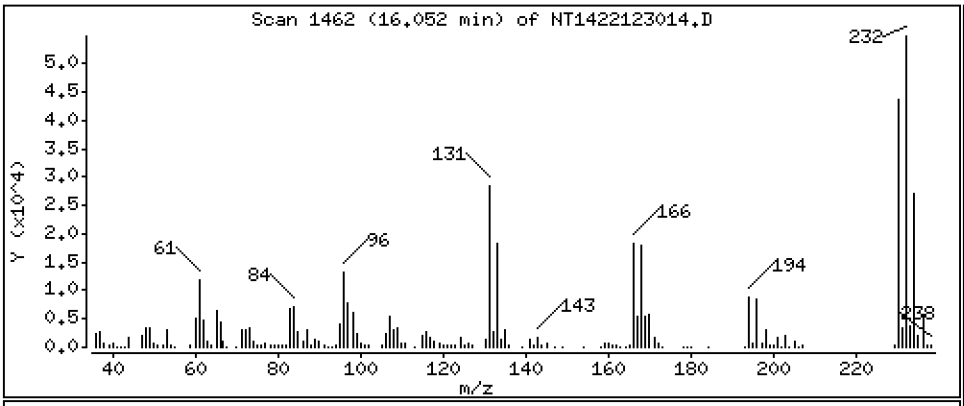
Operator: VTS

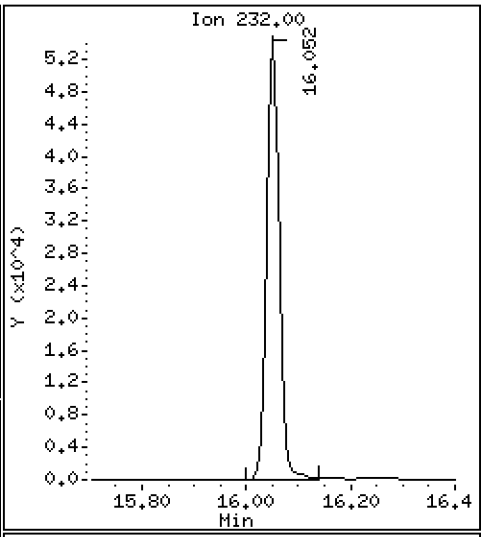
Column phase: ZB-5msi

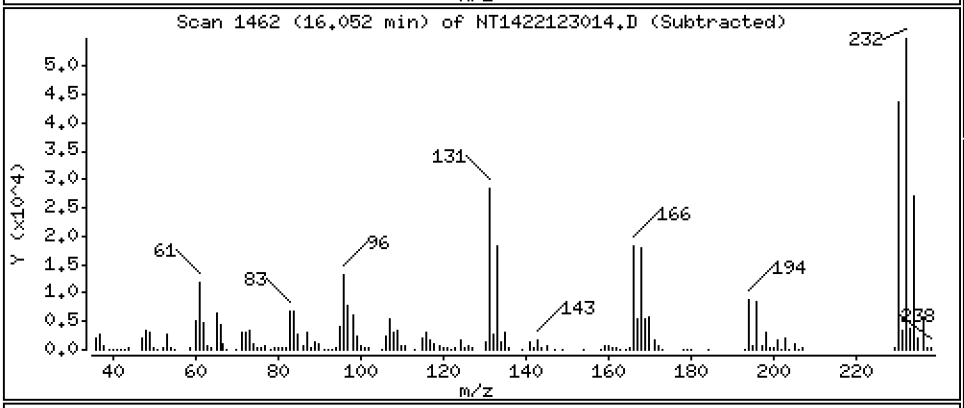
Column diameter: 0.25

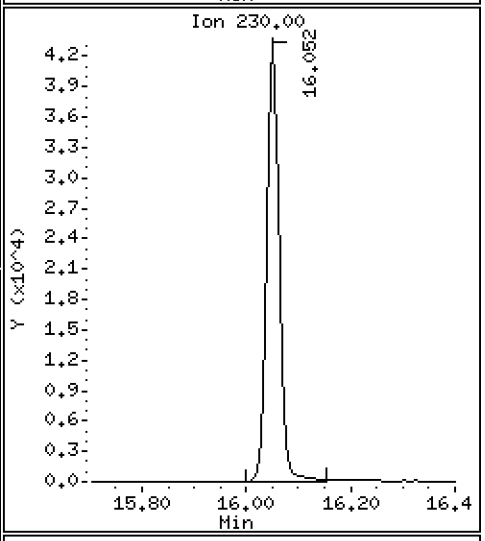
120 2,3,4,6-Tetrachlorophenol

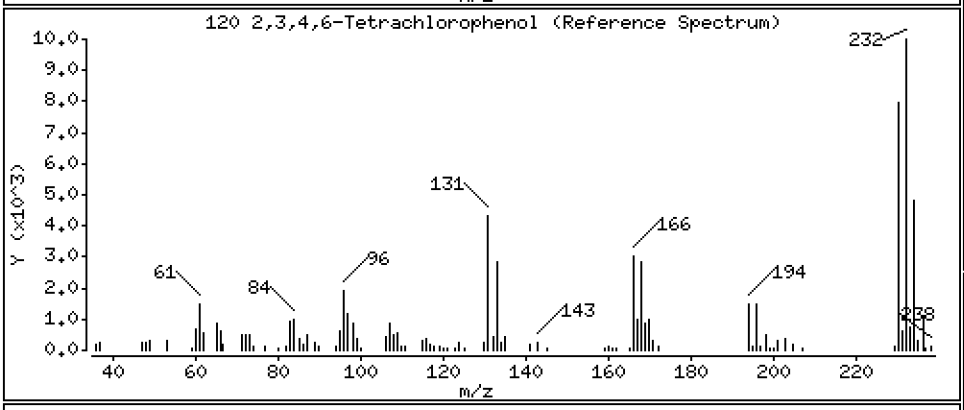
Concentration: 4.531 ug/mL

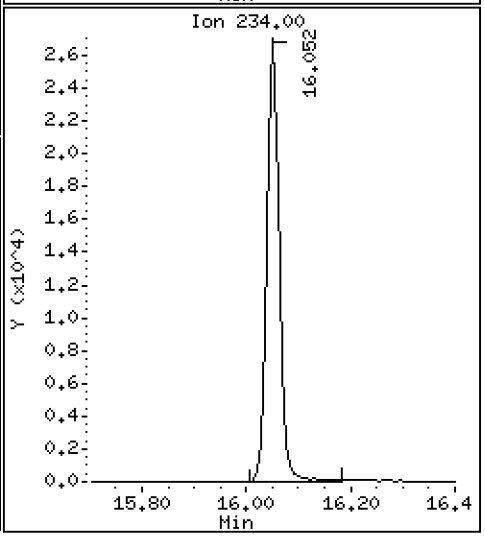


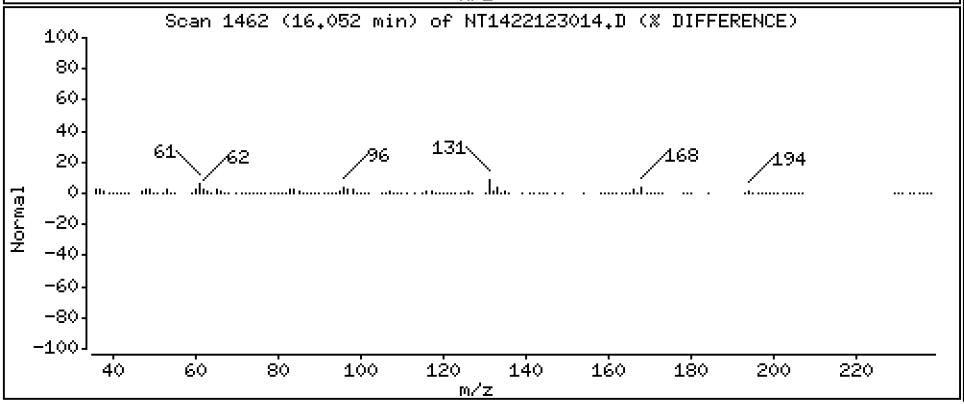












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230.b\NT1422123014.D
Lab Smp Id: SKL0355-ICV2
Inj Date : 30-DEC-2022 15:53 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230.b\ABN.m
Meth Date : 04-Jan-2023 08:09 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.935	6.934	(0.755)	308210	7.37328	7.373
$	2 Phenol-d5	99	8.526	8.526	(0.928)	385154	7.45579	7.456
	3 Phenol	94	8.550	8.549	(0.931)	280303	4.77530	4.775
$	5 2-Chlorophenol-d4	132	8.812	8.820	(0.960)	314158	7.24118	7.241
	4 Bis(2-Chloroethyl)ether	93	8.719	8.719	(0.949)	190620	4.71419	4.714
	6 2-Chlorophenol	128	8.843	8.843	(0.963)	223136	4.68309	4.683
	7 1,3-Dichlorobenzene	146	9.122	9.121	(0.993)	230118	4.55456	4.555
*	8 1,4-Dichlorobenzene-d4	152	9.184	9.183	(1.000)	130476	4.00000	
	9 1,4-Dichlorobenzene	146	9.215	9.214	(1.003)	217862	4.55156	4.552
$	10 1,2-Dichlorobenzene-d4	152	9.548	9.548	(1.040)	138662	4.67622	4.676
	12 1,2-Dichlorobenzene	146	9.572	9.571	(1.042)	217027	4.62327	4.623
	11 Benzyl alcohol	108	9.447	9.447	(1.029)	129608	4.95987	4.960
	14 2,2'-oxybis(1-Chloropropane)	121	9.758	9.758	(1.063)	50798	3.73248	3.732
	13 2-Methylphenol	108	9.673	9.672	(1.053)	207206	4.85794	4.858
	17 Hexachloroethane	117	10.177	10.177	(1.108)	84099	4.77717	4.777
	16 N-Nitroso-di-n-propylamine	70	10.014	10.014	(1.090)	133994	5.15699	5.157
	15 4-Methylphenol	108	9.944	9.944	(1.083)	220305	4.89616	4.896
$	18 Nitrobenzene-d5	82	10.278	10.285	(0.879)	204953	5.00970	5.010
	19 Nitrobenzene	77	10.317	10.316	(0.883)	196817	4.84408	4.844
	20 Isophorone	82	10.767	10.774	(0.921)	264091	5.09989	5.100
	21 2-Nitrophenol	139	10.953	10.953	(0.937)	121522	4.70002	4.700
	22 2,4-Dimethylphenol	107	11.000	10.999	(0.941)	401339	9.46431	9.464
	23 Bis(2-Chloroethoxy)methane	93	11.201	11.201	(0.958)	187236	4.64788	4.648
	24 Benzoic acid	105	11.193	11.201	(0.958)	466969	17.3883	17.39
	25 2,4-Dichlorophenol	162	11.410	11.410	(0.976)	358230	10.0218	10.02
	26 1,2,4-Trichlorobenzene	180	11.604	11.604	(0.993)	172538	4.46408	4.464
*	27 Naphthalene-d8	136	11.689	11.688	(1.000)	484478	4.00000	
	28 Naphthalene	128	11.727	11.735	(1.003)	545783	4.57764	4.578
	29 4-Chloroaniline	127	11.851	11.858	(1.014)	478513	9.73195	9.732
	30 Hexachlorobutadiene	225	12.098	12.098	(1.035)	86983	4.53587	4.536
	31 4-Chloro-3-methylphenol	107	12.810	12.818	(1.096)	337936	10.0182	10.02
	32 2-Methylnaphthalene	142	13.135	13.135	(1.124)	409647	4.68397	4.684
	33 Hexachlorocyclopentadiene	237	13.607	13.607	(0.888)	191298	9.67948	9.679

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.754	13.754	(0.897)	214549	9.83188	9.832
35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	248250	9.85697	9.857
$ 36	2-Fluorobiphenyl	172	13.917	13.916	(0.908)	407699	4.63803	4.638
37	2-Chloronaphthalene	162	14.134	14.133	(0.922)	346005	4.62692	4.627
38	2-Nitroaniline	65	14.381	14.389	(0.938)	209733	10.6678	10.67
39	Dimethylphthalate	163	14.815	14.822	(0.967)	347899	4.71850	4.718
40	Acenaphthylene	152	15.008	15.008	(0.979)	537414	4.71315	4.713
41	2,6-Dinitrotoluene	165	14.954	14.954	(0.976)	165174	9.92663	9.927
* 42	Acenaphthene-d10	164	15.325	15.325	(1.000)	261445	4.00000	
43	3-Nitroaniline	138	15.240	15.240	(0.994)	200585	9.91816	9.918
44	Acenaphthene	153	15.387	15.394	(1.004)	326255	4.61321	4.613
45	2,4-Dinitrophenol	184	15.449	15.456	(1.008)	259341	17.6160	17.62
46	Dibenzofuran	168	15.719	15.719	(1.026)	482191	4.54662	4.547
47	4-Nitrophenol	109	15.542	15.549	(1.014)	93362	9.44134	9.441
48	2,4-Dinitrotoluene	165	15.766	15.765	(1.029)	225728	9.88745	9.887
50	Diethylphthalate	149	16.284	16.283	(1.063)	497843	4.96768	4.968
49	Fluorene	166	16.431	16.438	(1.072)	557395	4.94047	4.940
51	4-Chlorophenyl-phenylether	204	16.423	16.423	(1.072)	257743	4.66626	4.666
52	4-Nitroaniline	138	16.508	16.515	(1.077)	239364	9.61614	9.616
53	4,6-Dinitro-2-methylphenol	198	16.608	16.615	(0.904)	347239	19.1944	19.19
54	N-Nitrosodiphenylamine	169	16.670	16.669	(0.907)	327227	4.61933	4.619
$ 55	2,4,6-Tribromophenol	330	16.970	16.970	(1.107)	86618	6.81831	6.818
56	4-Bromophenyl-phenylether	248	17.425	17.433	(0.949)	123400	4.60038	4.600
57	Hexachlorobenzene	284	17.750	17.749	(0.966)	132817	4.51201	4.512
58	Pentachlorophenol	266	18.098	18.106	(0.985)	118918	8.91327	8.913
* 59	Phenanthrene-d10	188	18.369	18.376	(1.000)	412822	4.00000	
60	Phenanthrene	178	18.423	18.423	(1.003)	494198	4.59143	4.591
61	Anthracene	178	18.516	18.516	(1.008)	501351	4.87916	4.879
62	Carbazole	167	18.833	18.841	(1.025)	464657	4.67769	4.678
63	Di-n-butylphthalate	149	19.630	19.630	(1.069)	560630	4.80679	4.807
64	Fluoranthene	202	20.798	20.806	(0.889)	546633	4.86276	4.863
65	Pyrene	202	21.224	21.231	(0.907)	572281	4.84197	4.842
$ 66	Terphenyl-d14	244	21.503	21.510	(0.919)	397869	4.74754	4.748
67	Butylbenzylphthalate	149	22.424	22.423	(0.958)	220809	4.86864	4.869
68	Benzo(a)anthracene	228	23.384	23.384	(0.999)	507176	4.79555	4.796
* 69	Chrysene-d12	240	23.407	23.415	(1.000)	349122	4.00000	
70	3,3'-Dichlorobenzidine	252	23.330	23.329	(0.997)	396605	12.2501	12.25
71	Chrysene	228	23.454	23.461	(1.002)	468523	4.68997	4.690
72	bis(2-Ethylhexyl)phthalate	149	23.438	23.446	(0.959)	317067	5.46880	5.469
* 134	Di-n-octylphthalate-d4	153	24.437	24.437	(1.000)	522046	4.00000	
73	Di-n-octylphthalate	149	24.445	24.452	(1.000)	569094	4.54137	4.541
74	Benzo(b)fluoranthene	252	25.304	25.311	(0.969)	481563	4.68412	4.684
75	Benzo(k)fluoranthene	252	25.350	25.358	(0.971)	495263	4.73313	4.733
76	Benzo(a)pyrene	252	25.978	25.985	(0.995)	411908	4.81967	4.820
* 77	Perylene-d12	264	26.102	26.101	(1.000)	327130	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.853	28.869	(1.105)	479486	4.93535	4.935
79	Dibenzo(a,h)anthracene	278	28.869	28.876	(1.106)	395113	4.78585	4.786
80	Benzo(g,h,i)perylene	276	29.677	29.684	(1.137)	398711	4.89891	4.899
90	N-Nitrosodimethylamine	74	4.741	4.749	(0.516)	286265	9.94372	9.944
91	Aniline	93	8.627	8.634	(0.939)	554998	9.71062	9.711
93	Benzidine	184	21.023	21.030	(0.898)	368474	8.31946	8.319
103	Pyridine	79	4.772	4.780	(0.520)	452701	4.94876	4.949
105	1-methylnaphthalene	142	13.360	13.359	(1.143)	395432	4.70577	4.706
111	Azobenzene (1,2-DP-Hydrazine)	77	16.747	16.746	(1.093)	480358	4.94760	4.948

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.350	25.358	(0.971)	933646	9.39348	9.393
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.051	(1.047)	86602	4.53059	4.531

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123014.D
Lab Smp Id: SKL0355-ICV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	151013	75507	302026	130476	-13.60
27 Naphthalene-d8	553510	276755	1107020	484478	-12.47
42 Acenaphthene-d10	305411	152706	610822	261445	-14.40
59 Phenanthrene-d10	491708	245854	983416	412822	-16.04
69 Chrysene-d12	424740	212370	849480	349122	-17.80
134 Di-n-octylphthala	684951	342476	1369902	522046	-23.78
77 Perylene-d12	395150	197575	790300	327130	-17.21

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.18	8.68	9.68	9.18	0.00
27 Naphthalene-d8	11.69	11.19	12.19	11.69	0.00
42 Acenaphthene-d10	15.33	14.83	15.83	15.33	0.00
59 Phenanthrene-d10	18.38	17.88	18.88	18.37	-0.04
69 Chrysene-d12	23.42	22.92	23.92	23.41	-0.03
134 Di-n-octylphthala	24.44	23.94	24.94	24.44	0.00
77 Perylene-d12	26.10	25.60	26.60	26.10	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123014.D

Lab ID: SKL0355-ICV2
nt14.i, 20221230.b\ABN.m,   30-DEC-2022 15:53

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123002.D

On Column LOD for nt14.i, 20221230.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.7	1.7995200	1.6801430		-6.6	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1354090		-8.4	+/-20	
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3781420		-5.7	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4156250		-8.6	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3450740		-8.3	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3214800		-8.2	+/-20	
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7828800		-2.3	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.7	0.4172325	0.3900475		-6.5	+/-20	
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2453830		-4.8	+/-20	
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4696673		-13.0	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7987206		0.3	+/-20	
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3401830		-2.8	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3275726		-2.4	+/-20	
Isophorone	A	5.0000	5.2	0.4275424	0.4488704		5.0	+/-20	
2-Nitrophenol	A	5.0000	5.2	0.2064997	0.2249104		4.8	+/-20	
2,4-Dimethylphenol	A	10.000	10.4	0.3501131	0.3625637		3.6	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3076842		-7.5	+/-20	
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3079848		4.4	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2892532		-9.4	+/-20	
Naphthalene	A	5.0000	4.6	0.9843833	0.9078499		-7.8	+/-20	
Benzoic acid	A	20.000	15.8	0.1508906	0.1739713		-21.3	+/-20	*
4-Chloroaniline	A	10.000	10.3	0.4059568	0.4162417		2.5	+/-20	
Hexachlorobutadiene	A	5.0000	4.6	0.1583286	0.1461855		-7.7	+/-20	
4-Chloro-3-Methylphenol	A	10.000	10.2	0.2785027	0.2842360		2.1	+/-20	
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6907626		-4.3	+/-20	
Hexachlorocyclopentadiene	A	10.000	4.8	0.3023695	0.1447796		-52.1	+/-20	*
2,4,6-Trichlorophenol	A	10.000	10.5	0.3338641	0.3513387		5.2	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3861223		0.2	+/-20	
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0635150		-7.0	+/-20	
2-Nitroaniline	A	10.000	10.8	0.3007956	0.3242350		7.8	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	4.7	1.7445240	1.6524400		-5.3	+/-20	
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0813340		-4.1	+/-20	
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2561130		0.6	+/-20	
Acenaphthene	A	5.0000	4.6	1.0820160	0.9971221		-7.8	+/-20	
3-Nitroaniline	A	10.000	9.9	0.3094189	0.3048378		-1.5	+/-20	
2,4-Dinitrophenol	A	20.000	14.9	0.1831718	0.1666727		-25.5	+/-20	*
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4938400		-7.9	+/-20	
4-Nitrophenol	A	10.000	8.9	0.1384031	0.1342845		-11.1	+/-20	
2,4-Dinitrotoluene	A	10.000	9.8	0.3492859	0.3436218		-1.6	+/-20	
Fluorene	A	5.0000	5.1	1.7261350	1.7561080		1.7	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	4.8	0.8450792	0.8091917		-4.2	+/-20	
Diethyl phthalate	A	5.0000	5.1	1.5332690	1.5777480		2.9	+/-20	
4-Nitroaniline	A	10.000	9.3	0.3413732	0.3539277		-7.0	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	17.2	0.1530278	0.1498780		-14.1	+/-20	
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6513109		-5.1	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455477		-5.5	+/-20	
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2590127		-9.2	+/-20	
Pentachlorophenol	A	10.000	6.8	0.1128364	0.0871737		-31.8	+/-20	*
Phenanthrene	A	5.0000	4.5	1.0429190	0.9427209		-9.6	+/-20	
Anthracene	A	5.0000	4.8	0.9956202	0.9643179		-3.1	+/-20	
Carbazole	A	5.0000	4.7	0.9624945	0.9015232		-6.3	+/-20	
Di-n-Butylphthalate	A	5.0000	5.0	1.0394700	1.1338500		0.1	+/-20	
Fluoranthene	A	5.0000	4.6	1.2879410	1.1971170		-7.1	+/-20	
Pyrene	A	5.0000	4.6	1.3541610	1.2361520		-8.7	+/-20	
Butylbenzylphthalate	A	5.0000	5.1	0.4650792	0.5260304		1.2	+/-20	
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1557250		-4.6	+/-20	
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4182666		12.7	+/-20	
Chrysene	A	5.0000	4.6	1.1445730	1.0481760		-8.4	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	5.0	0.4442323	0.4451666		0.2	+/-20	
Di-n-Octylphthalate	A	5.0000	4.4	0.9601702	0.8388549		-12.6	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123049.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV4	Injection Time:	13:17
Sequence Name:	ABN 5		

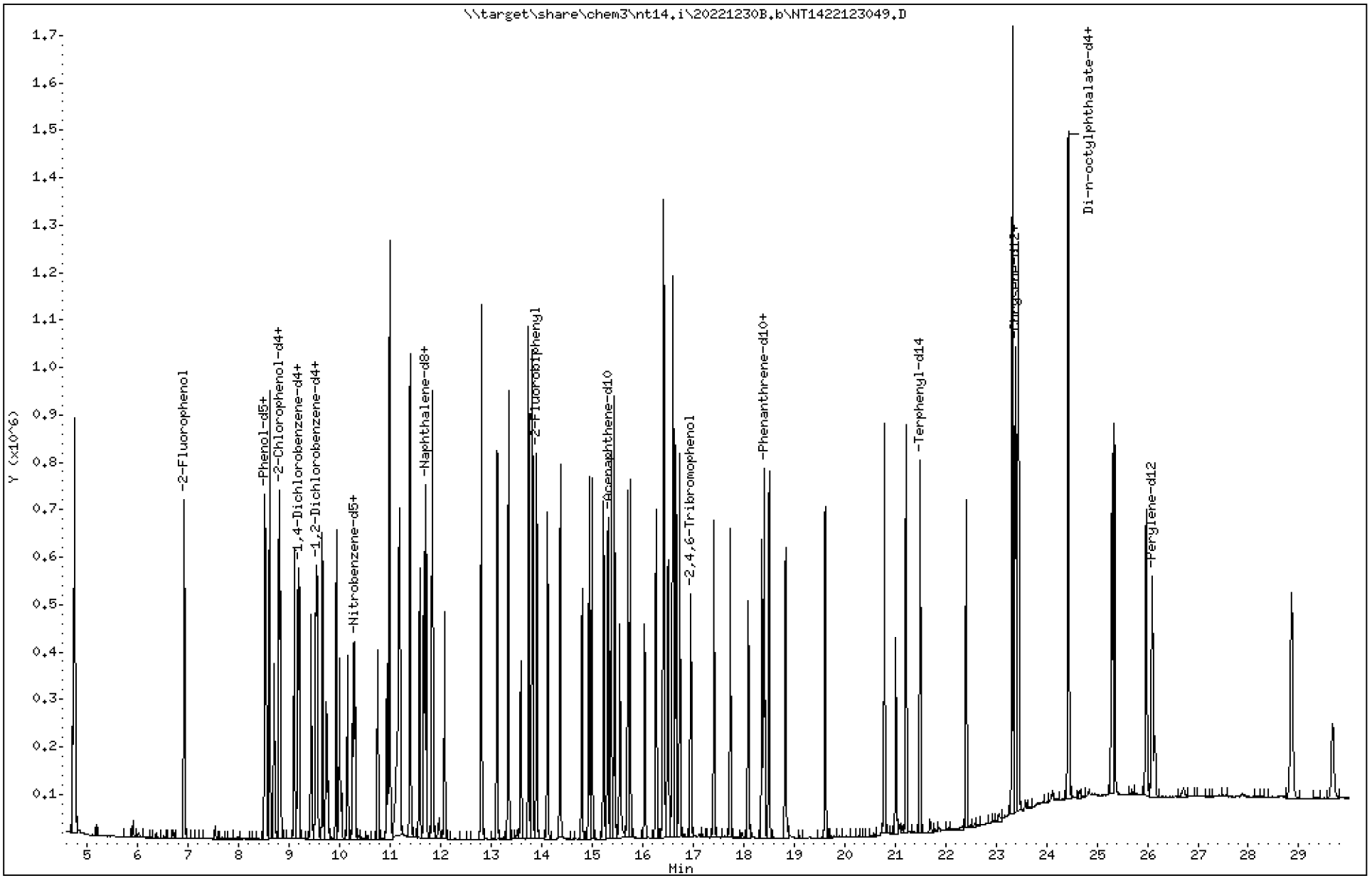
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.2	1.2153330	1.2442360		2.4	+/-20	
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0609490		1.5	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	3.2	1.1879490	0.7527935		-36.6	+/-20	*
Dibenzo(a,h)anthracene	A	5.0000	3.4	1.0094890	0.6813818		-32.5	+/-20	*
Benzo(g,h,i)perylene	A	5.0000	2.5	0.9951726	0.5009027		-49.7	+/-20	*
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6680471		-3.7	+/-20	
2-Fluorophenol	A	7.5000	7.39	1.2814900	1.2619160		-1.5	+/-20	
Phenol-d5	A	7.5000	7.43	1.5836890	1.5681240		-1.0	+/-20	
2-Chlorophenol-d4	A	7.5000	7.41	1.3300510	1.3136660		-1.2	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.69	0.9090592	0.8526335		-6.2	+/-20	
Nitrobenzene-d5	A	5.0000	5.09	0.3377760	0.3441254		1.9	+/-20	
2-Fluorobiphenyl	A	5.0000	4.71	1.3448860	1.2660660		-5.9	+/-20	
2,4,6-Tribromophenol	A	7.5000	6.91	0.1844845	0.1790322		-7.9	+/-20	
p-Terphenyl-d14	A	5.0000	4.44	0.9601842	0.8525341		-11.2	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123049.D
Date : 31-DEC-2022 13:17
Client ID:
Sample Info: SKL0355-ICV4

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230B.b\NT1422123049.D
Lab Smp Id: SKL0355-ICV4
Inj Date : 31-DEC-2022 13:17 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV4
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	318095	7.50000	7.385
$	2 Phenol-d5	99	8.519	8.519	(0.929)	395282	7.50000	7.426
	3 Phenol	94	8.542	8.542	(0.932)	282346	5.00000	4.668
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	331140	7.50000	7.408
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	190804	5.00000	4.580
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	231595	5.00000	4.717
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	237894	5.00000	4.570
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	134439	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	226038	5.00000	4.583
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	143284	5.00000	4.690
	12 1,2-Dichlorobenzene	146	9.564	9.564	(1.043)	222073	5.00000	4.591
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	131562	5.00000	4.886
	14 2,2'-oxybis(1-Chloropropane)	121	9.743	9.743	(1.063)	65547	5.00000	4.674(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	209285	5.00000	4.762
	17 Hexachloroethane	117	10.162	10.162	(1.108)	78927	5.00000	4.351
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	134224	5.00000	5.014
	15 4-Methylphenol	108	9.937	9.937	(1.084)	225216	5.00000	4.858
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.879)	211804	5.00000	5.094
	19 Nitrobenzene	77	10.301	10.301	(0.882)	201616	5.00000	4.882
	20 Isophorone	82	10.759	10.759	(0.921)	276273	5.00000	5.249
	21 2-Nitrophenol	139	10.938	10.938	(0.936)	138429	5.00000	5.240
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.941)	446305	10.0000	10.36
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	189375	5.00000	4.625
	24 Benzoic acid	105	11.201	11.201	(0.959)	428307	20.0000	15.75
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.976)	379120	10.0000	10.44
	26 1,2,4-Trichlorobenzene	180	11.589	11.589	(0.992)	178031	5.00000	4.532
*	27 Naphthalene-d8	136	11.681	11.681	(1.000)	492388	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.003)	558768	5.00000	4.611
	29 4-Chloroaniline	127	11.843	11.843	(1.014)	512381	10.0000	10.25
	30 Hexachlorobutadiene	225	12.083	12.083	(1.034)	89975	5.00000	4.617
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	349886	10.0000	10.21
	32 2-Methylnaphthalene	142	13.128	13.128	(1.124)	425154	5.00000	4.783
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.887)	97972	10.0000	4.788

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.897)	237750	10.0000	10.52
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.902)	261288	10.0000	10.02
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.908)	428372	5.00000	4.707
	37	2-Chloronaphthalene	162	14.126	14.126	(0.922)	359839	5.00000	4.648
	38	2-Nitroaniline	65	14.373	14.373	(0.938)	219409	10.0000	10.78
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	365868	5.00000	4.793
	40	Acenaphthylene	152	15.000	15.000	(0.979)	559101	5.00000	4.736
	41	2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	173311	10.0000	10.06
*	42	Acenaphthene-d10	164	15.318	15.318	(1.000)	270679	4.00000	
	43	3-Nitroaniline	138	15.233	15.233	(0.994)	206283	10.0000	9.852
	44	Acenaphthene	153	15.379	15.379	(1.004)	337375	5.00000	4.608
	45	2,4-Dinitrophenol	184	15.441	15.441	(1.008)	225574	20.0000	14.90
	46	Dibenzofuran	168	15.712	15.712	(1.026)	505439	5.00000	4.603
	47	4-Nitrophenol	109	15.549	15.549	(1.015)	90870	10.0000	8.888
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	232528	10.0000	9.838
	50	Diethylphthalate	149	16.268	16.268	(1.062)	533829	5.00000	5.145
	49	Fluorene	166	16.423	16.423	(1.072)	594177	5.00000	5.087
	51	4-Chlorophenyl-phenylether	204	16.415	16.415	(1.072)	273789	5.00000	4.788
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	239502	10.0000	9.301
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.608	(0.904)	321950	20.0000	17.18
	54	N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	349767	5.00000	4.745
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.107)	90863	7.50000	6.905
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.948)	131864	5.00000	4.724
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	139095	5.00000	4.541
	58	Pentachlorophenol	266	18.098	18.098	(0.985)	93628	10.0000	6.821
*	59	Phenanthrene-d10	188	18.369	18.369	(1.000)	429616	4.00000	
	60	Phenanthrene	178	18.415	18.415	(1.003)	506260	5.00000	4.520
	61	Anthracene	178	18.508	18.508	(1.008)	517858	5.00000	4.843
	62	Carbazole	167	18.833	18.833	(1.025)	484136	5.00000	4.683
	63	Di-n-butylphthalate	149	19.622	19.622	(1.068)	608900	5.00000	5.007
	64	Fluoranthene	202	20.798	20.798	(0.889)	562690	5.00000	4.647
	65	Pyrene	202	21.224	21.224	(0.907)	581038	5.00000	4.564
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	400723	5.00000	4.439
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	247254	5.00000	5.058
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	543234	5.00000	4.769
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	376030	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	589803	15.0000	16.91
	71	Chrysene	228	23.454	23.454	(1.002)	492682	5.00000	4.579
	72	bis(2-Ethylhexyl)phthalate	149	23.438	23.438	(0.959)	353144	5.00000	5.011
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	634628	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	665451	5.00000	4.368
	74	Benzo(b)fluoranthene	252	25.304	25.304	(0.970)	517739	5.00000	4.900
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	579041	5.00000	5.384
	76	Benzo(a)pyrene	252	25.978	25.978	(0.996)	445897	5.00000	5.076
*	77	Perylene-d12	264	26.094	26.094	(1.000)	336225	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.854	28.854	(1.106)	316385	5.00000	3.168
	79	Dibenzo(a,h)anthracene	278	28.861	28.861	(1.106)	286372	5.00000	3.375
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	210520	5.00000	2.517
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	283127	10.0000	9.545
	91	Aniline	93	8.619	8.619	(0.940)	558976	10.0000	9.492
	93	Benzidine	184	21.015	21.015	(0.898)	282018	10.0000	5.976
	103	Pyridine	79	4.757	4.757	(0.519)	444965	5.00000	4.721
	105	1-methylnaphthalene	142	13.352	13.352	(1.143)	411173	5.00000	4.814
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	492427	5.00000	4.899

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	1045858	10.0000	10.24
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.047)	87129	5.00000	4.408

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123049.D
Lab Smp Id: SKL0355-ICV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	134439	0.00
27 Naphthalene-d8	492388	246194	984776	492388	0.00
42 Acenaphthene-d10	270679	135340	541358	270679	0.00
59 Phenanthrene-d10	429616	214808	859232	429616	0.00
69 Chrysene-d12	376030	188015	752060	376030	0.00
134 Di-n-octylphthala	634628	317314	1269256	634628	0.00
77 Perylene-d12	336225	168113	672450	336225	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.68	0.00
42 Acenaphthene-d10	15.32	14.82	15.82	15.32	0.00
59 Phenanthrene-d10	18.37	17.87	18.87	18.37	0.00
69 Chrysene-d12	23.41	22.91	23.91	23.41	0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123049.D

Lab ID: SKL0355-ICV4
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 13:17

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

No RRT check. Ccal file.

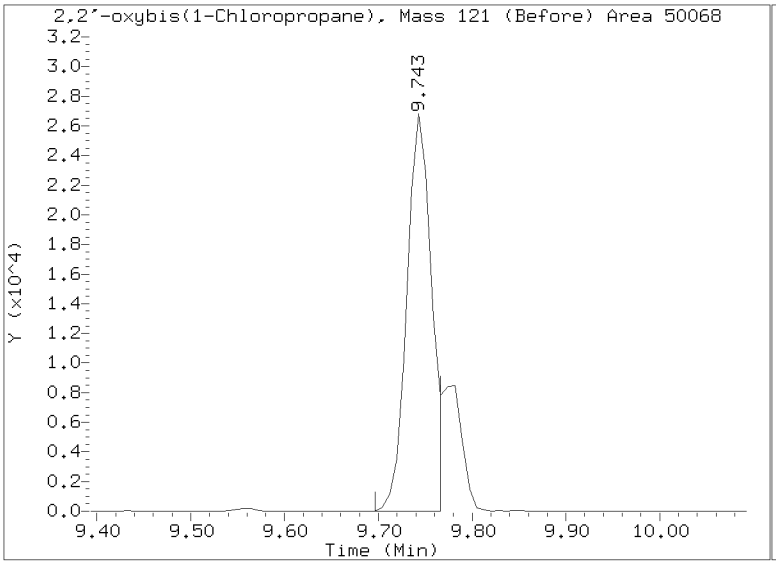
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

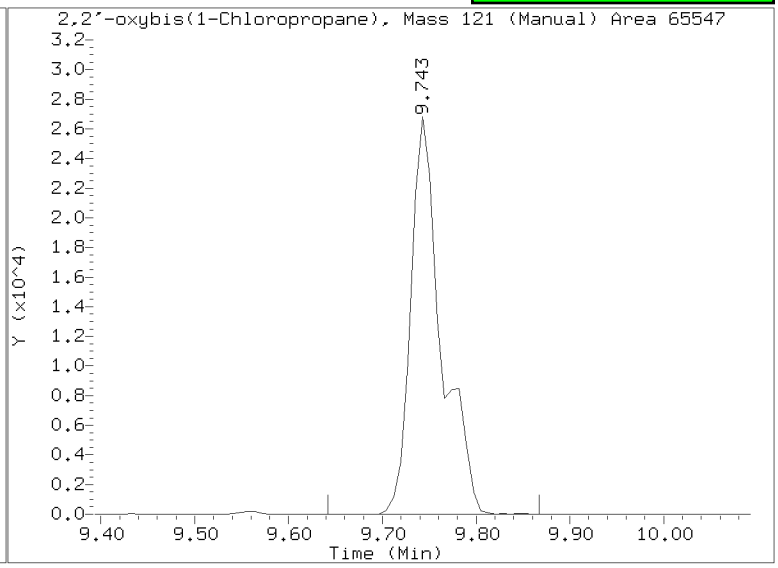
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123049.D
Injection Date: 31-DEC-2022 13:17
Lab ID:SKL0355-ICV4 Client ID:
Report Date: 01/04/2023 12:19

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230B.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1422123049.D 31-DEC-2022 13:17

Compound	%D
Benzoic acid	-21.2
Hexachlorocyclopentadiene	-52.1
2,4-Dinitrophenol	-25.5
Pentachlorophenol	-31.8
Indeno(1,2,3-cd)pyrene	-36.6
Dibenzo(a,h)anthracene	-32.5
Benzo(g,h,i)perylene	-49.7
Benzidine	-40.2

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.6	1.7995200	1.6541100		-8.1	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.5	1.2396270	1.1273220		-9.1	+/-20	
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3644940		-6.6	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4214870		-8.2	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3397200		-8.7	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3209120		-8.2	+/-20	
Benzyl Alcohol	A	5.0000	4.8	0.8011083	0.7636251		-4.7	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3591366		-13.9	+/-20	
2-Methylphenol	A	5.0000	4.7	1.3076140	1.2332530		-5.7	+/-20	
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4729199		-12.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.7965591	0.7933696		-0.4	+/-20	
4-Methylphenol	A	5.0000	4.8	1.3794240	1.3205430		-4.3	+/-20	
Nitrobenzene	A	5.0000	4.9	0.3354574	0.3301455		-1.6	+/-20	
Isophorone	A	5.0000	5.3	0.4275424	0.4545998		6.3	+/-20	
2-Nitrophenol	A	5.0000	5.4	0.2064997	0.2310454		7.5	+/-20	
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3342418		-4.5	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.7	0.3325989	0.3094664		-7.0	+/-20	
2,4-Dichlorophenol	A	10.000	10.4	0.2951237	0.3075498		4.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	4.5	0.3191088	0.2880378		-9.7	+/-20	
Naphthalene	A	5.0000	4.6	0.9843833	0.8996040		-8.6	+/-20	
Benzoic acid	A	20.000	15.0	0.1508906	0.1657042		-24.9	+/-20	*
4-Chloroaniline	A	10.000	9.4	0.4059568	0.3830169		-5.7	+/-20	
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1502550		-5.1	+/-20	
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2866657		2.9	+/-20	
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6972628		-3.4	+/-20	
Hexachlorocyclopentadiene	A	10.000	5.0	0.3023695	0.1518054		-49.8	+/-20	*
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3460067		3.6	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.0	0.3853234	0.3854916		0.0	+/-20	
2-Chloronaphthalene	A	5.0000	4.7	1.1441150	1.0645600		-7.0	+/-20	
2-Nitroaniline	A	10.000	10.9	0.3007956	0.3273099		8.8	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	4.8	1.7445240	1.6645010		-4.6	+/-20	
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0867640		-3.7	+/-20	
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2579856		1.3	+/-20	
Acenaphthene	A	5.0000	4.6	1.0820160	1.0009870		-7.5	+/-20	
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995328		-3.2	+/-20	
2,4-Dinitrophenol	A	20.000	10.4	0.1831718	0.1152467		-48.0	+/-20	*
Dibenzofuran	A	5.0000	4.6	1.6225950	1.4878950		-8.3	+/-20	
4-Nitrophenol	A	10.000	8.6	0.1384031	0.1290829		-14.5	+/-20	
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3462479		-0.9	+/-20	
Fluorene	A	5.0000	5.1	1.7261350	1.7759490		2.9	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8294615		-1.8	+/-20	
Diethyl phthalate	A	5.0000	5.3	1.5332690	1.6189800		5.6	+/-20	
4-Nitroaniline	A	10.000	8.9	0.3413732	0.3375193		-11.2	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	14.2	0.1530278	0.1232685		-28.9	+/-20	*
N-Nitrosodiphenylamine	A	5.0000	4.7	0.6863845	0.6402818		-6.7	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2438656		-6.2	+/-20	
Hexachlorobenzene	A	5.0000	4.5	0.2852204	0.2582537		-9.5	+/-20	
Pentachlorophenol	A	10.000	4.9	0.1128364	0.0625034		-50.6	+/-20	*
Phenanthrene	A	5.0000	4.5	1.0429190	0.9401257		-9.9	+/-20	
Anthracene	A	5.0000	4.8	0.9956202	0.9631939		-3.3	+/-20	
Carbazole	A	5.0000	4.6	0.9624945	0.8907934		-7.4	+/-20	
Di-n-Butylphthalate	A	5.0000	5.2	1.0394700	1.1725880		3.4	+/-20	
Fluoranthene	A	5.0000	4.6	1.2879410	1.1939660		-7.3	+/-20	
Pyrene	A	5.0000	4.5	1.3541610	1.2193400		-10.0	+/-20	
Butylbenzylphthalate	A	5.0000	5.2	0.4650792	0.5450507		4.7	+/-20	
Benzo(a)anthracene	A	5.0000	4.7	1.2117210	1.1489750		-5.2	+/-20	
3,3'-Dichlorobenzidine	A	15.000	16.8	0.3709370	0.4155321		12.0	+/-20	
Chrysene	A	5.0000	4.6	1.1445730	1.0527600		-8.0	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4386889		-1.2	+/-20	
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8345177		-13.1	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123066.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-ICV5	Injection Time:	23:30
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.3	1.2153330	1.2538490		3.2	+/-20	
Benzo(a)pyrene	A	5.0000	5.1	1.0450150	1.0608340		1.5	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	2.9	1.1879490	0.6828509		-42.5	+/-20	*
Dibenzo(a,h)anthracene	A	5.0000	3.0	1.0094890	0.6136830		-39.2	+/-20	*
Benzo(g,h,i)perylene	A	5.0000	2.2	0.9951726	0.4471983		-55.1	+/-20	*
1-Methylnaphthalene	A	5.0000	4.9	0.6937882	0.6757147		-2.6	+/-20	
2-Fluorophenol	A	7.5000	7.34	1.2814900	1.2547510		-2.1	+/-20	
Phenol-d5	A	7.5000	7.34	1.5836890	1.5508350		-2.1	+/-20	
2-Chlorophenol-d4	A	7.5000	7.38	1.3300510	1.3086010		-1.6	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.68	0.9090592	0.8508292		-6.4	+/-20	
Nitrobenzene-d5	A	5.0000	5.19	0.3377760	0.3507210		3.8	+/-20	
2-Fluorobiphenyl	A	5.0000	4.77	1.3448860	1.2835680		-4.6	+/-20	
2,4,6-Tribromophenol	A	7.5000	6.70	0.1844845	0.1733623		-10.7	+/-20	
p-Terphenyl-d14	A	5.0000	4.34	0.9601842	0.8338715		-13.2	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123066.D

Date : 31-DEC-2022 23:30

Client ID:

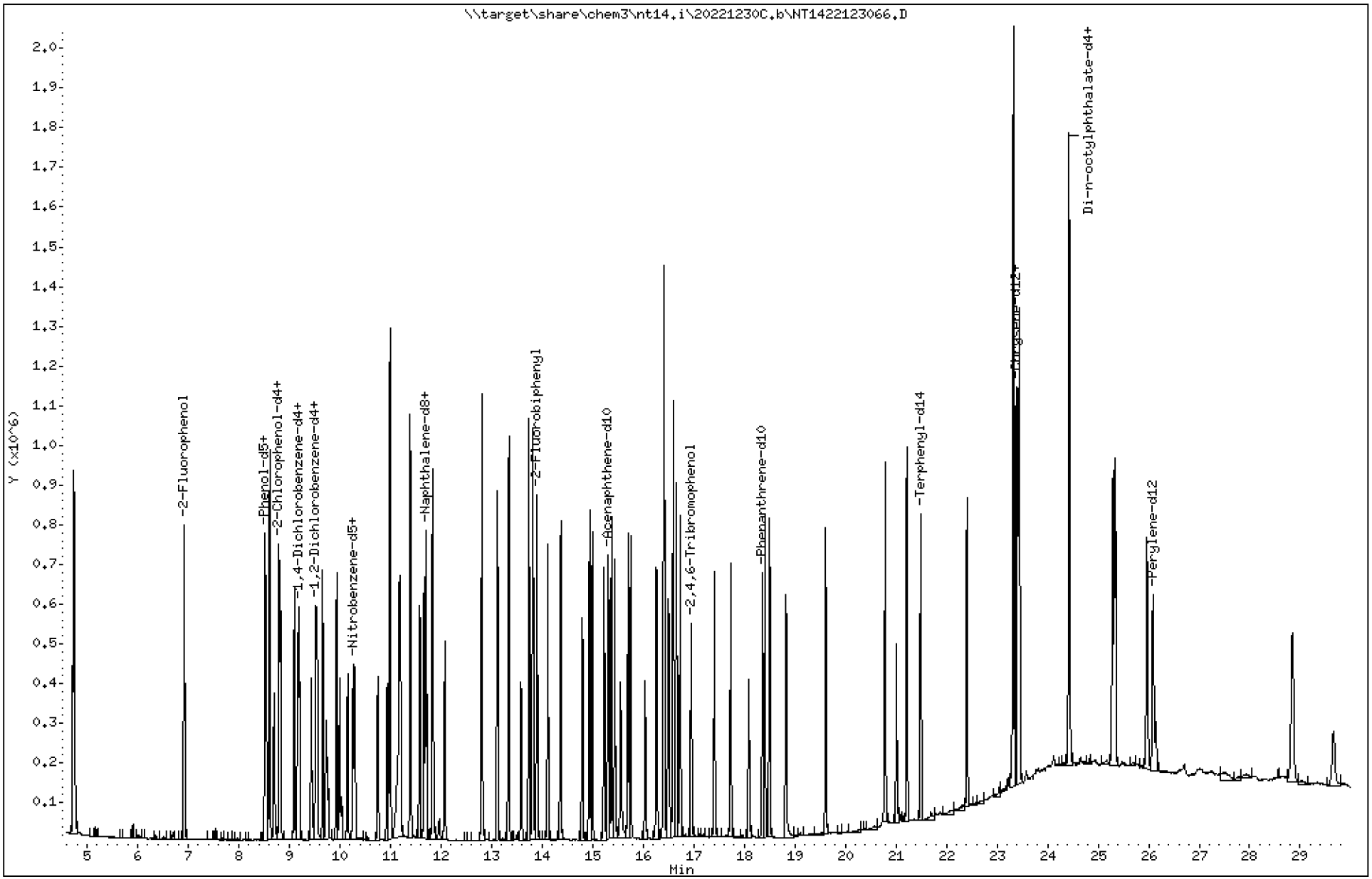
Instrument: nt14.i

Sample Info: SKL0355-ICV5

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123066.D
Lab Smp Id: SKL0355-ICV5
Inj Date : 31-DEC-2022 23:30 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-ICV5
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							AMOUNTS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	326443	7.50000	7.344
$	2 Phenol-d5	99	8.519	8.519	(0.930)	403474	7.50000	7.344
	3 Phenol	94	8.542	8.542	(0.932)	286895	5.00000	4.596
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	340453	7.50000	7.379
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	195527	5.00000	4.547
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	236663	5.00000	4.671
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	246548	5.00000	4.589
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	138755	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	232366	5.00000	4.565
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	147571	5.00000	4.680
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	229104	5.00000	4.589
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	132446	5.00000	4.766
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	62290	5.00000	4.304(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	213900	5.00000	4.716
	17 Hexachloroethane	117	10.154	10.154	(1.108)	82025	5.00000	4.381
	16 N-Nitroso-di-n-propylamine	70	9.998	9.998	(1.092)	137605	5.00000	4.980
	15 4-Methylphenol	108	9.936	9.936	(1.085)	229040	5.00000	4.787
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.879)	219956	5.00000	5.192
	19 Nitrobenzene	77	10.301	10.301	(0.882)	207052	5.00000	4.921
	20 Isophorone	82	10.751	10.751	(0.921)	285104	5.00000	5.316
	21 2-Nitrophenol	139	10.937	10.937	(0.937)	144901	5.00000	5.376
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	419242	10.0000	9.547
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	194083	5.00000	4.652
	24 Benzoic acid	105	11.209	11.209	(0.960)	415688	20.0000	15.03
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.976)	385762	10.0000	10.42
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.992)	180644	5.00000	4.513
*	27 Naphthalene-d8	136	11.673	11.673	(1.000)	501723	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.003)	564190	5.00000	4.569
	29 4-Chloroaniline	127	11.835	11.835	(1.014)	480421	10.0000	9.435
	30 Hexachlorobutadiene	225	12.075	12.075	(1.034)	94233	5.00000	4.745
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	359567	10.0000	10.29
	32 2-Methylnaphthalene	142	13.120	13.120	(1.124)	437291	5.00000	4.828
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	104455	10.0000	5.021

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.897)	238082	10.0000	10.36
	35	2,4,5-Trichlorophenol	196	13.816	13.816	(0.902)	265251	10.0000	10.00
$	36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	441602	5.00000	4.772
	37	2-Chloronaphthalene	162	14.118	14.118	(0.922)	366254	5.00000	4.652
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	225217	10.0000	10.88
	39	Dimethylphthalate	163	14.799	14.799	(0.967)	373893	5.00000	4.817
	40	Acenaphthylene	152	14.993	14.993	(0.979)	572659	5.00000	4.771
	41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	177516	10.0000	10.13
*	42	Acenaphthene-d10	164	15.310	15.310	(1.000)	275234	4.00000	
	43	3-Nitroaniline	138	15.225	15.225	(0.994)	206104	10.0000	9.680
	44	Acenaphthene	153	15.371	15.371	(1.004)	344382	5.00000	4.626
	45	2,4-Dinitrophenol	184	15.441	15.441	(1.009)	158599	20.0000	10.41
	46	Dibenzofuran	168	15.704	15.704	(1.026)	511899	5.00000	4.585
	47	4-Nitrophenol	109	15.557	15.557	(1.016)	88820	10.0000	8.550
	48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	238248	10.0000	9.913
	50	Diethylphthalate	149	16.268	16.268	(1.063)	556998	5.00000	5.280
	49	Fluorene	166	16.423	16.423	(1.073)	611002	5.00000	5.144
	51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	285370	5.00000	4.908
	52	4-Nitroaniline	138	16.500	16.500	(1.078)	232242	10.0000	8.879
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	271243	20.0000	14.23
	54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	352223	5.00000	4.664
$	55	2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	89466	7.50000	6.695
	56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.948)	134152	5.00000	4.691
	57	Hexachlorobenzene	284	17.734	17.734	(0.966)	142067	5.00000	4.527
	58	Pentachlorophenol	266	18.090	18.090	(0.985)	68767	10.0000	4.939
*	59	Phenanthrene-d10	188	18.361	18.361	(1.000)	440085	4.00000	
	60	Phenanthrene	178	18.408	18.408	(1.003)	517169	5.00000	4.507
	61	Anthracene	178	18.500	18.500	(1.008)	529859	5.00000	4.837
	62	Carbazole	167	18.825	18.825	(1.025)	490031	5.00000	4.628
	63	Di-n-butylphthalate	149	19.614	19.614	(1.068)	645048	5.00000	5.171
	64	Fluoranthene	202	20.791	20.791	(0.889)	574290	5.00000	4.635
	65	Pyrene	202	21.216	21.216	(0.907)	586495	5.00000	4.502
$	66	Terphenyl-d14	244	21.495	21.495	(0.919)	401087	5.00000	4.342
	67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	262166	5.00000	5.237
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	552650	5.00000	4.741
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	384795	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	599605	15.0000	16.80
	71	Chrysene	228	23.446	23.446	(1.002)	506371	5.00000	4.599
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	369886	5.00000	4.938
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	674530	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	703634	5.00000	4.346
	74	Benzo(b)fluoranthene	252	25.296	25.296	(0.970)	566281	5.00000	5.352
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	539859	5.00000	5.013
	76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	446432	5.00000	5.076
*	77	Perylene-d12	264	26.086	26.086	(1.000)	336665	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.105)	287365	5.00000	2.874
	79	Dibenzo(a,h)anthracene	278	28.853	28.853	(1.106)	258257	5.00000	3.040
	80	Benzo(g,h,i)perylene	276	29.653	29.653	(1.137)	188195	5.00000	2.247
	90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	10.0000	9.280
	91	Aniline	93	8.611	8.611	(0.940)	567250	10.0000	9.333
	93	Benzidine	184	21.015	21.015	(0.898)	298846	10.0000	6.182
	103	Pyridine	79	4.741	4.741	(0.518)	450863	5.00000	4.635
	105	1-methylnaphthalene	142	13.344	13.344	(1.143)	423777	5.00000	4.870
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	503446	5.00000	4.926

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	1055318	10.0000	10.32
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	82302	5.00000	4.106

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123066.D
Lab Smp Id: SKL0355-ICV5
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	138755	0.00
27 Naphthalene-d8	501723	250862	1003446	501723	0.00
42 Acenaphthene-d10	275234	137617	550468	275234	0.00
59 Phenanthrene-d10	440085	220043	880170	440085	0.00
69 Chrysene-d12	384795	192398	769590	384795	0.00
134 Di-n-octylphthala	674530	337265	1349060	674530	0.00
77 Perylene-d12	336665	168333	673330	336665	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	0.00
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123066.D

Lab ID: SKL0355-ICV5
nt14.i, 20221230C.b\ABN.m,   31-DEC-2022 23:30

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

No RRT check. Ccal file.

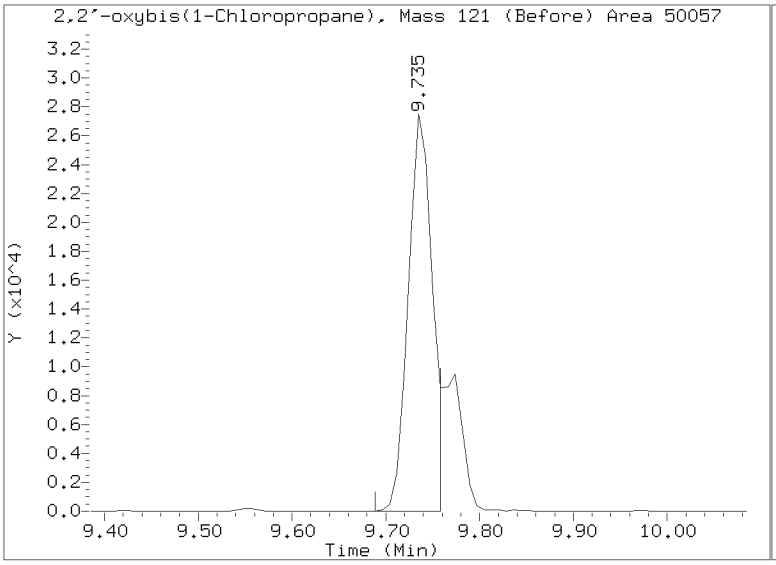
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

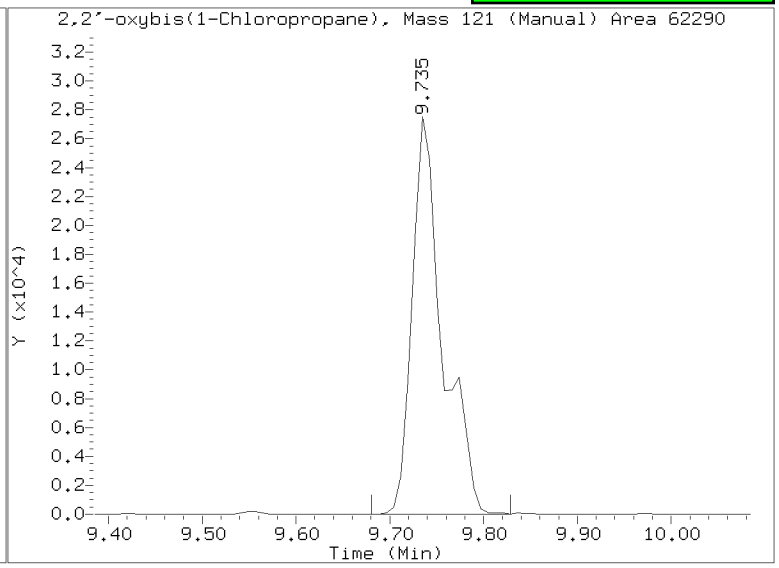
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123066.D
Injection Date: 31-DEC-2022 23:30
Lab ID:SKL0355-ICV5 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022 Method: 20221230C.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1422123066.D 31-DEC-2022 23:30

Compound	%D
Benzoic acid	-24.8
Hexachlorocyclopentadiene	-49.8
2,4-Dinitrophenol	-47.9
4,6-Dinitro-2-methylphenol	-28.8
Pentachlorophenol	-50.6
Indeno(1,2,3-cd)pyrene	-42.5
Dibenzo(a,h)anthracene	-39.2
Benzo(g,h,i)perylene	-55.1
Benzidine	-38.2

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010502.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-ICV1	Injection Time:	13:58
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	5.1	1.4044630	1.5481870		1.6	+/-20	
bis(2-chloroethyl) ether	A	5.0000	4.4	1.3118710	1.1668990		-11.1	+/-20	
2-Chlorophenol	A	5.0000	5.1	1.4588200	1.4922920		2.3	+/-20	
1,3-Dichlorobenzene	A	5.0000	4.7	1.5313200	1.4382280		-6.1	+/-20	
1,4-Dichlorobenzene	A	5.0000	4.8	1.3168520	1.2526990		-4.9	+/-20	
1,2-Dichlorobenzene	A	5.0000	4.7	1.3362390	1.2688110		-5.0	+/-20	
Benzyl Alcohol	A	5.0000	5.4	0.5973505	0.7749599		7.1	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.7	0.3934987	0.3704423		-5.9	+/-20	
2-Methylphenol	A	5.0000	5.1	1.0215070	1.0446450		1.3	+/-20	
Hexachloroethane	A	5.0000	4.7	0.5781425	0.5412297		-6.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	5.0	0.5381567	0.5360220		-0.4	+/-20	
4-Methylphenol	A	5.0000	7.9	0.7393577	1.1868390		58.3	+/-20	*
Nitrobenzene	A	5.0000	4.9	0.2419063	0.2418312		-1.2	+/-20	
Isophorone	A	5.0000	5.0	0.3567252	0.3814249		0.8	+/-20	
2-Nitrophenol	A	5.0000	5.3	0.2032345	0.2400177		5.5	+/-20	
2,4-Dimethylphenol	A	10.000	9.8	0.3089571	0.3042894		-1.5	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	4.9	0.2675330	0.2615033		-2.3	+/-20	
2,4-Dichlorophenol	A	10.000	10.3	0.2172906	0.2510797		3.2	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	5.6	0.2573230	0.2877049		11.8	+/-20	
Naphthalene	A	5.0000	4.8	0.8795663	0.8469264		-3.7	+/-20	
Benzoic acid	A	20.000	19.5	0.0729753	0.1321626		-2.6	+/-20	
4-Chloroaniline	A	10.000	10.5	0.3408285	0.3766345		4.5	+/-20	
Hexachlorobutadiene	A	5.0000	4.8	0.0956260	0.0911456		-4.7	+/-20	
4-Chloro-3-Methylphenol	A	10.000	9.9	0.2294921	0.2589746		-1.2	+/-20	
2-Methylnaphthalene	A	5.0000	5.1	0.6956659	0.7027938		1.0	+/-20	
Hexachlorocyclopentadiene	A	10.000	10.4	0.1879345	0.2334484		4.2	+/-20	
2,4,6-Trichlorophenol	A	10.000	10.8	0.2960164	0.3723642		7.9	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.5	0.3120060	0.3951137		5.2	+/-20	
2-Chloronaphthalene	A	5.0000	5.0	1.3239040	1.3293230		0.4	+/-20	
2-Nitroaniline	A	10.000	10.2	0.1611951	0.1889568		1.6	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010502.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-ICV1	Injection Time:	13:58
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	4.9	1.9020330	1.8540690		-2.5	+/-20	
Dimethylphthalate	A	5.0000	4.8	1.2062690	1.1691770		-3.1	+/-20	
2,6-Dinitrotoluene	A	10.000	10.2	0.2739875	0.2783554		1.6	+/-20	
Acenaphthene	A	5.0000	4.8	1.0555160	1.0132150		-4.0	+/-20	
3-Nitroaniline	A	10.000	17.9	0.2397950	0.3871568		79.0	+/-20	*
2,4-Dinitrophenol	A	20.000	22.1	0.1289526	0.2109934		10.4	+/-20	
Dibenzofuran	A	5.0000	4.8	1.6038830	1.5542220		-3.1	+/-20	
4-Nitrophenol	A	10.000	10.2	0.1495319	0.1543516		1.7	+/-20	
2,4-Dinitrotoluene	A	10.000	10.5	0.3676432	0.3851477		4.8	+/-20	
Fluorene	A	5.0000	4.3	2.3546130	2.0179770		-14.3	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	6.4	0.7562631	0.9671521		27.9	+/-20	*
Diethyl phthalate	A	5.0000	5.1	1.2805980	1.2913820		1.5	+/-20	
4-Nitroaniline	A	10.000	10.8	0.4852205	0.5858378		8.1	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	22.1	0.1290933	0.1948633		10.7	+/-20	
N-Nitrosodiphenylamine	A	5.0000	4.8	0.7403786	0.7164174		-3.2	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	5.1	0.1949145	0.1973106		1.2	+/-20	
Hexachlorobenzene	A	5.0000	5.8	0.1666873	0.1932813		16.0	+/-20	
Pentachlorophenol	A	10.000	15.4	0.0286214	0.0497119		54.3	+/-20	*
Phenanthrene	A	5.0000	4.9	0.9704501	0.9485855		-2.3	+/-20	
Anthracene	A	5.0000	5.2	0.9473360	0.9807208		3.5	+/-20	
Carbazole	A	5.0000	5.1	1.0208240	1.0443350		2.3	+/-20	
Di-n-Butylphthalate	A	5.0000	5.2	1.3659470	1.4884130		4.7	+/-20	
Fluoranthene	A	5.0000	5.5	1.7525480	1.8604200		10.6	+/-20	
Pyrene	A	5.0000	6.1	1.8193730	2.0691740		21.4	+/-20	*
Butylbenzylphthalate	A	5.0000	5.8	0.9455969	1.0537540		15.9	+/-20	
Benzo(a)anthracene	A	5.0000	7.2	1.2329510	1.7132850		44.7	+/-20	*
3,3'-Dichlorobenzidine	A	15.000	17.5	0.4473353	0.5026758		16.9	+/-20	
Chrysene	A	5.0000	5.2	0.9901209	1.0278080		3.8	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	4.1	0.6142836	0.5036546		-18.0	+/-20	
Di-n-Octylphthalate	A	5.0000	4.8	0.9249794	0.8793537		-4.9	+/-20	

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

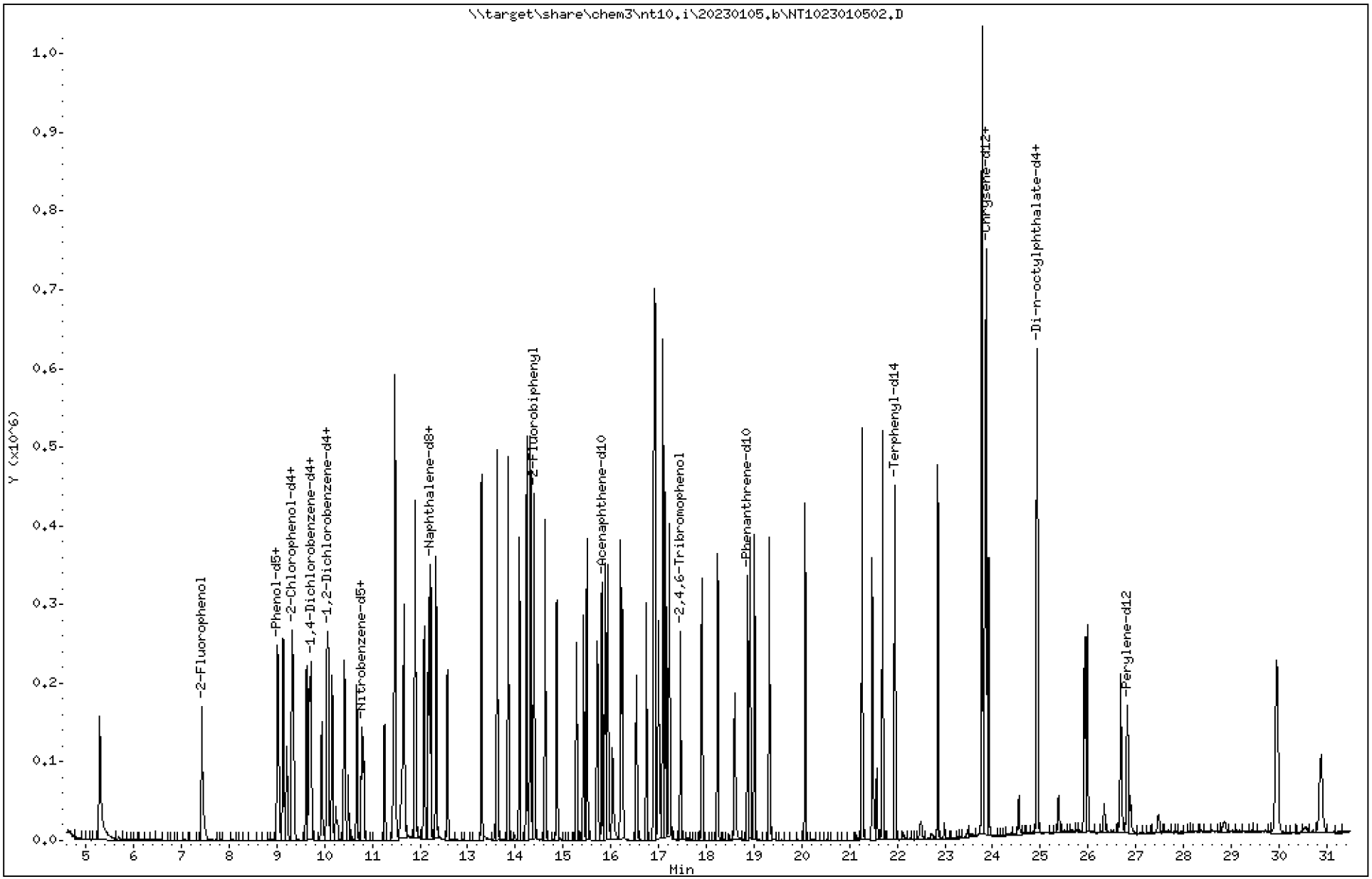
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010502.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-ICV1	Injection Time:	13:58
Sequence Name:	Initial Cal Check		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	9.6	1.3643130	1.3161830		-3.5	+/-20	
Benzo(a)pyrene	A	5.0000	3.5	1.3740040	0.9646748		-29.8	+/-20	*
Indeno(1,2,3-cd)pyrene	A	5.0000	4.9	1.0800220	1.0625200		-1.6	+/-20	
Dibenzo(a,h)anthracene	A	5.0000	4.9	0.8486470	0.8368269		-1.4	+/-20	
Benzo(g,h,i)perylene	A	5.0000	4.7	0.8910674	0.8387391		-5.9	+/-20	
1-Methylnaphthalene	A	5.0000	5.0	0.6797458	0.6771159		-0.4	+/-20	
2-Fluorophenol	A	7.5000	7.70	1.1160130	1.3634800		2.7	+/-20	
Phenol-d5	A	7.5000	7.49	1.4242540	1.5898460		-0.09	+/-20	
2-Chlorophenol-d4	A	7.5000	7.97	1.3764080	1.4624330		6.3	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	4.99	0.8573826	0.8554151		-0.2	+/-20	
Nitrobenzene-d5	A	5.0000	5.11	0.2588694	0.2747943		2.2	+/-20	
2-Fluorobiphenyl	A	5.0000	4.98	1.4818850	1.4744540		-0.5	+/-20	
2,4,6-Tribromophenol	A	7.5000	7.83	0.0688448	0.0863346		4.4	+/-20	
p-Terphenyl-d14	A	5.0000	5.41	0.9692527	1.0487670		8.2	+/-20	

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010502.D
Date : 05-JAN-2023 13:58
Client ID:
Sample Info: SLA0061-ICV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010502.D
Lab Smp Id: SLA0061-ICV1
Inj Date : 05-JAN-2023 13:58
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0061-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	7.429	7.429	(0.767)	208932	7.50000	7.699
$	2 Phenol-d5	99	9.012	9.012	(0.931)	243619	7.50000	7.493
	3 Phenol	94	9.036	9.036	(0.933)	158157	5.00000	5.080
$	5 2-Chlorophenol-d4	132	9.321	9.321	(0.962)	224095	7.50000	7.969
	4 Bis(2-Chloroethyl)ether	93	9.205	9.205	(0.950)	119206	5.00000	4.447
	6 2-Chlorophenol	128	9.344	9.344	(0.965)	152447	5.00000	5.115
	7 1,3-Dichlorobenzene	146	9.623	9.623	(0.994)	146924	5.00000	4.696
*	8 1,4-Dichlorobenzene-d4	152	9.685	9.685	(1.000)	81725	4.00000	
	9 1,4-Dichlorobenzene	146	9.716	9.716	(1.003)	127971	5.00000	4.756
$	10 1,2-Dichlorobenzene-d4	152	10.050	10.050	(1.038)	87386	5.00000	4.989
	12 1,2-Dichlorobenzene	146	10.073	10.073	(1.040)	129617	5.00000	4.748
	11 Benzyl alcohol	108	9.941	9.941	(1.026)	79167	5.00000	5.356
	14 2,2'-oxybis(1-Chloropropane)	121	10.244	10.244	(1.058)	37843	5.00000	4.707
	13 2-Methylphenol	108	10.158	10.158	(1.049)	106717	5.00000	5.066
	17 Hexachloroethane	117	10.679	10.679	(1.103)	55290	5.00000	4.681
	16 N-Nitroso-di-n-propylamine	70	10.500	10.500	(1.084)	54758	5.00000	4.980
	15 4-Methylphenol	108	10.422	10.422	(1.076)	121243	5.00000	7.917
$	18 Nitrobenzene-d5	82	10.779	10.779	(0.885)	105464	5.00000	5.112
	19 Nitrobenzene	77	10.810	10.810	(0.887)	92813	5.00000	4.939
	20 Isophorone	82	11.261	11.261	(0.924)	146388	5.00000	5.040
	21 2-Nitrophenol	139	11.442	11.442	(0.939)	92117	5.00000	5.273
	22 2,4-Dimethylphenol	107	11.476	11.476	(0.942)	233568	10.0000	9.849
	23 Bis(2-Chloroethoxy)methane	93	11.671	11.671	(0.958)	100363	5.00000	4.887
	24 Benzoic acid	105	11.671	11.671	(0.958)	202892	20.0000	19.49
	25 2,4-Dichlorophenol	162	11.900	11.900	(0.977)	192725	10.0000	10.32
	26 1,2,4-Trichlorobenzene	180	12.092	12.092	(0.992)	110419	5.00000	5.590
*	27 Naphthalene-d8	136	12.185	12.185	(1.000)	307034	4.00000	
	28 Naphthalene	128	12.224	12.224	(1.003)	325044	5.00000	4.814
	29 4-Chloroaniline	127	12.339	12.339	(1.013)	289099	10.0000	10.45
	30 Hexachlorobutadiene	225	12.579	12.579	(1.032)	34981	5.00000	4.766
	31 4-Chloro-3-methylphenol	107	13.291	13.291	(1.091)	198785	10.0000	9.883
	32 2-Methylnaphthalene	142	13.624	13.624	(1.118)	269727	5.00000	5.051
	33 Hexachlorocyclopentadiene	237	14.088	14.088	(0.891)	82032	10.0000	10.42

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.235	14.235	(0.900)	130846	10.0000	10.79
	35	2,4,5-Trichlorophenol	196	14.312	14.312	(0.905)	138840	10.0000	10.52
$	36	2-Fluorobiphenyl	172	14.398	14.398	(0.910)	259056	5.00000	4.975
	37	2-Chloronaphthalene	162	14.622	14.622	(0.925)	233557	5.00000	5.020
	38	2-Nitroaniline	65	14.862	14.862	(0.940)	66398	10.0000	10.16
	39	Dimethylphthalate	163	15.280	15.280	(0.966)	205420	5.00000	4.846
	40	Acenaphthylene	152	15.497	15.497	(0.980)	325753	5.00000	4.874
	41	2,6-Dinitrotoluene	165	15.427	15.427	(0.976)	97812	10.0000	10.16
*	42	Acenaphthene-d10	164	15.814	15.814	(1.000)	140557	4.00000	
	43	3-Nitroaniline	138	15.721	15.721	(0.994)	136044	10.0000	17.90
	44	Acenaphthene	153	15.876	15.876	(1.004)	178018	5.00000	4.800
	45	2,4-Dinitrophenol	184	15.938	15.938	(1.008)	148283	20.0000	22.07
	46	Dibenzofuran	168	16.208	16.208	(1.025)	273071	5.00000	4.845
	47	4-Nitrophenol	109	16.038	16.038	(1.014)	54238	10.0000	10.17
	48	2,4-Dinitrotoluene	165	16.247	16.247	(1.027)	135338	10.0000	10.48
	50	Diethylphthalate	149	16.742	16.742	(1.059)	226891	5.00000	5.075
	49	Fluorene	166	16.919	16.919	(1.070)	354551	5.00000	4.285
	51	4-Chlorophenyl-phenylether	204	16.896	16.896	(1.068)	169925	5.00000	6.394
	52	4-Nitroaniline	138	17.004	17.004	(1.075)	205859	10.0000	10.81
	53	4,6-Dinitro-2-methylphenol	198	17.097	17.097	(0.906)	237363	20.0000	22.13
	54	N-Nitrosodiphenylamine	169	17.143	17.143	(0.909)	218167	5.00000	4.838
$	55	2,4,6-Tribromophenol	330	17.459	17.459	(1.104)	22753	7.50000	7.833
	56	4-Bromophenyl-phenylether	248	17.914	17.914	(0.950)	60086	5.00000	5.061
	57	Hexachlorobenzene	284	18.238	18.238	(0.967)	58859	5.00000	5.798
	58	Pentachlorophenol	266	18.594	18.594	(0.986)	30277	10.0000	15.43
*	59	Phenanthrene-d10	188	18.865	18.865	(1.000)	243620	4.00000	
	60	Phenanthrene	178	18.919	18.919	(1.003)	288868	5.00000	4.887
	61	Anthracene	178	19.005	19.005	(1.007)	298654	5.00000	5.176
	62	Carbazole	167	19.322	19.322	(1.024)	318026	5.00000	5.115
	63	Di-n-butylphthalate	149	20.072	20.072	(1.064)	453259	5.00000	5.233
	64	Fluoranthene	202	21.271	21.271	(0.891)	336857	5.00000	5.532
	65	Pyrene	202	21.689	21.689	(0.909)	374655	5.00000	6.072
$	66	Terphenyl-d14	244	21.952	21.952	(0.920)	189895	5.00000	5.410
	67	Butylbenzylphthalate	149	22.851	22.851	(0.957)	190798	5.00000	5.794
	68	Benzo(a)anthracene	228	23.842	23.842	(0.999)	310216	5.00000	7.234
*	69	Chrysene-d12	240	23.873	23.873	(1.000)	144852	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.780	23.780	(0.996)	273051	15.0000	17.53
	71	Chrysene	228	23.919	23.919	(1.002)	186100	5.00000	5.190
	72	bis(2-Ethylhexyl)phthalate	149	23.865	23.865	(0.957)	243755	5.00000	4.100
*	134	Di-n-octylphthalate-d4	153	24.926	24.926	(1.000)	387178	4.00000	
	73	Di-n-octylphthalate	149	24.941	24.941	(1.001)	425583	5.00000	4.753
	74	Benzo(b)fluoranthene	252	25.932	25.932	(0.967)	185011	5.00000	4.814
	75	Benzo(k)fluoranthene	252	25.978	25.978	(0.969)	178652	5.00000	4.771
	76	Benzo(a)pyrene	252	26.691	26.691	(0.995)	128643	5.00000	3.510
*	77	Perylene-d12	264	26.822	26.822	(1.000)	106683	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.946	29.946	(1.116)	141691	5.00000	4.919
	79	Dibenzo(a,h)anthracene	278	29.970	29.970	(1.117)	111594	5.00000	4.930
	80	Benzo(g,h,i)perylene	276	30.886	30.886	(1.152)	111849	5.00000	4.706(M)
	90	N-Nitrosodimethylamine	74	5.282	5.282	(0.545)	141139	10.0000	9.350
	91	Aniline	93	9.128	9.128	(0.943)	302114	10.0000	10.29
	93	Benzidine	184	21.480	21.480	(0.900)	278235	10.0000	9.817
	103	Pyridine	79	5.290	5.290	(0.546)	231450	5.00000	5.082
	105	1-methylnaphthalene	142	13.848	13.848	(1.136)	259872	5.00000	4.981
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.228	17.228	(1.089)	270440	5.00000	4.879

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.978	25.978	(0.969)	351036	10.0000	9.647
120 2,3,4,6-Tetrachlorophenol	232	16.541	16.541	(1.046)	38068	5.00000	5.210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010502.D
Lab Smp Id: SLA0061-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	81725	0.00
27 Naphthalene-d8	307034	153517	614068	307034	0.00
42 Acenaphthene-d10	140557	70279	281114	140557	0.00
59 Phenanthrene-d10	243620	121810	487240	243620	0.00
69 Chrysene-d12	144852	72426	289704	144852	0.00
134 Di-n-octylphthala	387178	193589	774356	387178	0.00
77 Perylene-d12	106683	53342	213366	106683	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.69	0.00
27 Naphthalene-d8	12.19	11.69	12.69	12.19	0.00
42 Acenaphthene-d10	15.81	15.31	16.31	15.81	0.00
59 Phenanthrene-d10	18.87	18.37	19.37	18.87	0.00
69 Chrysene-d12	23.87	23.37	24.37	23.87	0.00
134 Di-n-octylphthala	24.93	24.43	25.43	24.93	0.00
77 Perylene-d12	26.82	26.32	27.32	26.82	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010502.D

Lab ID: SLA0061-ICV1
nt10.i, ABN.m, 05-JAN-2023 13:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

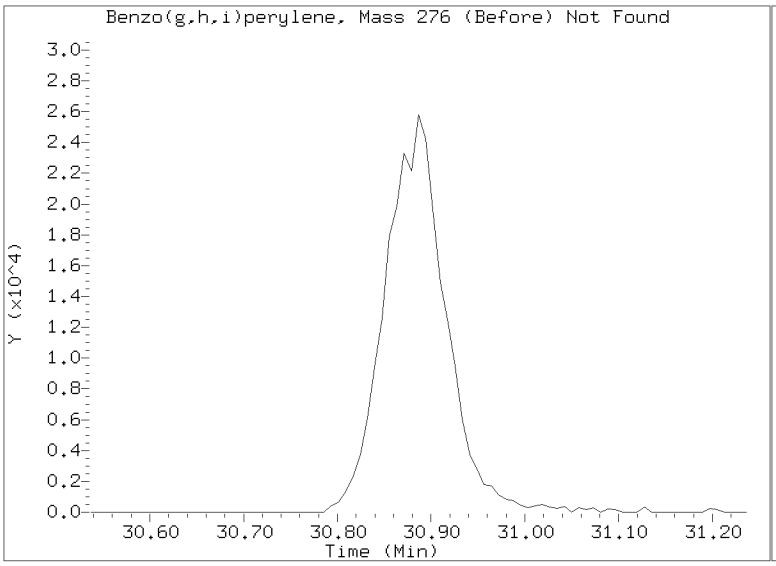
No RRT check. Ccal file.

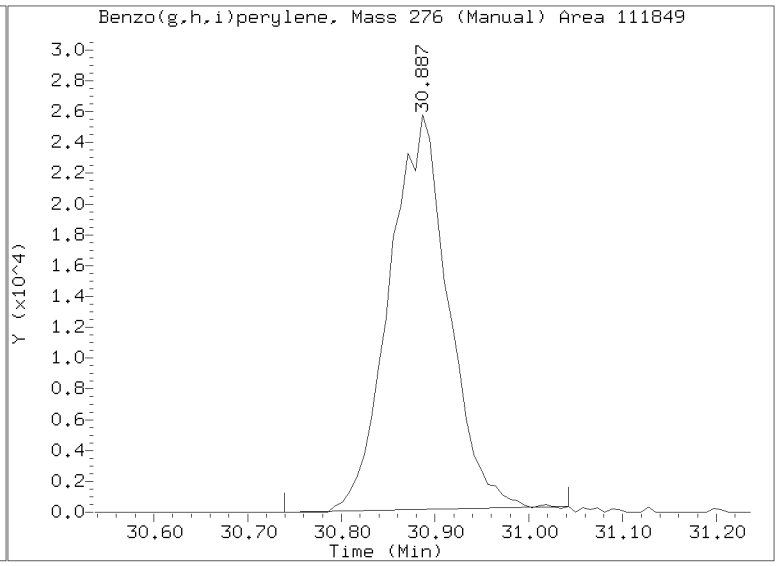
On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt10.i/20230105.b/NT1023010502.D
Injection Date: 05-JAN-2023 13:58
Lab ID:SLA0061-ICV1 Client ID:
Report Date: 01/06/2023 17:19





APPROVED

By Deenay Dunmore at 5:36 pm, Jan 06, 2023

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230105.b

Instrument: nt10.i Date: 05-JAN-2023 Method: ABN.m

INITIAL CAL: 29-OCT-2022

Compound	%RSD or R^2
Pentachlorophenol	0.986

ICV CAL: NT1023010502.D 05-JAN-2023 13:58

Compound	%D
4-Methylphenol	58.3
3-Nitroaniline	79.0
4-Chlorophenyl-phenylether	27.89
Pentachlorophenol	54.3
Pyrene	21.4
Benzo(a)anthracene	44.7
Benzo(a)pyrene	-29.79

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010602.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV1	Injection Time:	12:05
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	5.1	1.7995200	1.8406950		2.3	+/-20	
bis(2-chloroethyl) ether	A	5.0000	5.2	1.2396270	1.2855300		3.7	+/-20	
2-Chlorophenol	A	5.0000	5.2	1.4607190	1.5103100		3.4	+/-20	
1,3-Dichlorobenzene	A	5.0000	5.1	1.5489360	1.5679380		1.2	+/-20	
1,4-Dichlorobenzene	A	5.0000	5.1	1.4674070	1.4971990		2.0	+/-20	
1,2-Dichlorobenzene	A	5.0000	5.2	1.4391100	1.4862170		3.3	+/-20	
Benzyl Alcohol	A	5.0000	5.4	0.8011083	0.8670648		8.2	+/-20	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.3	0.4172325	0.4413347		5.8	+/-20	
2-Methylphenol	A	5.0000	5.4	1.3076140	1.4037270		7.4	+/-20	
Hexachloroethane	A	5.0000	5.7	0.5396966	0.6172494		14.4	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	6.0	0.7965591	0.9569041		20.1	+/-20	
4-Methylphenol	A	5.0000	5.5	1.3794240	1.5037840		9.0	+/-20	
Nitrobenzene	A	5.0000	5.7	0.3354574	0.3846729		14.7	+/-20	
Isophorone	A	5.0000	6.1	0.4275424	0.5246577		22.7	+/-20	*
2-Nitrophenol	A	5.0000	5.5	0.2064997	0.2387544		10.9	+/-20	
2,4-Dimethylphenol	A	10.000	11.1	0.3501131	0.3897218		11.3	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	5.3	0.3325989	0.3520409		5.8	+/-20	
2,4-Dichlorophenol	A	10.000	10.3	0.2951237	0.3023596		2.5	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	6.1	0.3191088	0.3875228		21.4	+/-20	*
Naphthalene	A	5.0000	5.1	0.9843833	1.0114650		2.8	+/-20	
Benzoic acid	A	20.000	16.2	0.1508906	0.1785245		-19.3	+/-20	
4-Chloroaniline	A	10.000	10.7	0.4059568	0.4349714		7.1	+/-20	
Hexachlorobutadiene	A	5.0000	6.4	0.1583286	0.2030386		28.2	+/-20	*
4-Chloro-3-Methylphenol	A	10.000	11.8	0.2785027	0.3298697		18.4	+/-20	
2-Methylnaphthalene	A	5.0000	5.3	0.7220739	0.7712869		6.8	+/-20	
Hexachlorocyclopentadiene	A	10.000	10.2	0.3023695	0.3083251		2.0	+/-20	
2,4,6-Trichlorophenol	A	10.000	12.1	0.3338641	0.4027105		20.6	+/-20	*
2,4,5-Trichlorophenol	A	10.000	11.2	0.3853234	0.4313568		11.9	+/-20	
2-Chloronaphthalene	A	5.0000	5.5	1.1441150	1.2679990		10.8	+/-20	
2-Nitroaniline	A	10.000	13.8	0.3007956	0.4139705		37.6	+/-20	*

* Values outside of QC limits

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010602.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV1	Injection Time:	12:05
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	5.6	1.7445240	1.9508880		11.8	+/-20	
Dimethylphthalate	A	5.0000	5.8	1.1280520	1.3121200		16.3	+/-20	
2,6-Dinitrotoluene	A	10.000	12.0	0.2545771	0.3060956		20.2	+/-20	
Acenaphthene	A	5.0000	5.6	1.0820160	1.2143450		12.2	+/-20	
3-Nitroaniline	A	10.000	10.8	0.3094189	0.3354533		8.4	+/-20	
2,4-Dinitrophenol	A	20.000	18.0	0.1831718	0.2025469		-10.2	+/-20	
Dibenzofuran	A	5.0000	5.3	1.6225950	1.7355900		7.0	+/-20	
4-Nitrophenol	A	10.000	11.3	0.1384031	0.1722511		13.3	+/-20	
2,4-Dinitrotoluene	A	10.000	12.0	0.3492859	0.4173479		19.5	+/-20	
Fluorene	A	5.0000	5.3	1.7261350	1.8379930		6.5	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8296804		-1.8	+/-20	
Diethyl phthalate	A	5.0000	5.5	1.5332690	1.6896160		10.2	+/-20	
4-Nitroaniline	A	10.000	10.4	0.3413732	0.3980270		4.3	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	19.8	0.1530278	0.1741437		-0.8	+/-20	
N-Nitrosodiphenylamine	A	5.0000	5.2	0.6863845	0.7180233		4.6	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	5.2	0.2599074	0.2681276		3.2	+/-20	
Hexachlorobenzene	A	5.0000	5.1	0.2852204	0.2923271		2.5	+/-20	
Pentachlorophenol	A	10.000	5.8	0.1128364	0.0737011		-42.0	+/-20	*
Phenanthrene	A	5.0000	5.3	1.0429190	1.0970130		5.2	+/-20	
Anthracene	A	5.0000	5.6	0.9956202	1.1195110		12.4	+/-20	
Carbazole	A	5.0000	5.2	0.9624945	1.0097700		4.9	+/-20	
Di-n-Butylphthalate	A	5.0000	6.0	1.0394700	1.3611170		19.2	+/-20	
Fluoranthene	A	5.0000	6.1	1.2879410	1.5732030		22.1	+/-20	*
Pyrene	A	5.0000	6.0	1.3541610	1.6320110		20.5	+/-20	*
Butylbenzylphthalate	A	5.0000	7.1	0.4650792	0.7471837		42.5	+/-20	*
Benzo(a)anthracene	A	5.0000	5.9	1.2117210	1.4275140		17.8	+/-20	
3,3'-Dichlorobenzidine	A	15.000	19.5	0.3709370	0.4833206		30.3	+/-20	*
Chrysene	A	5.0000	6.0	1.1445730	1.3752480		20.2	+/-20	
bis(2-Ethylhexyl)phthalate	A	5.0000	6.0	0.4442323	0.5372687		20.9	+/-20	*
Di-n-Octylphthalate	A	5.0000	5.1	0.9601702	0.9775777		1.8	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010602.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV1	Injection Time:	12:05
Sequence Name:	ABN 5		

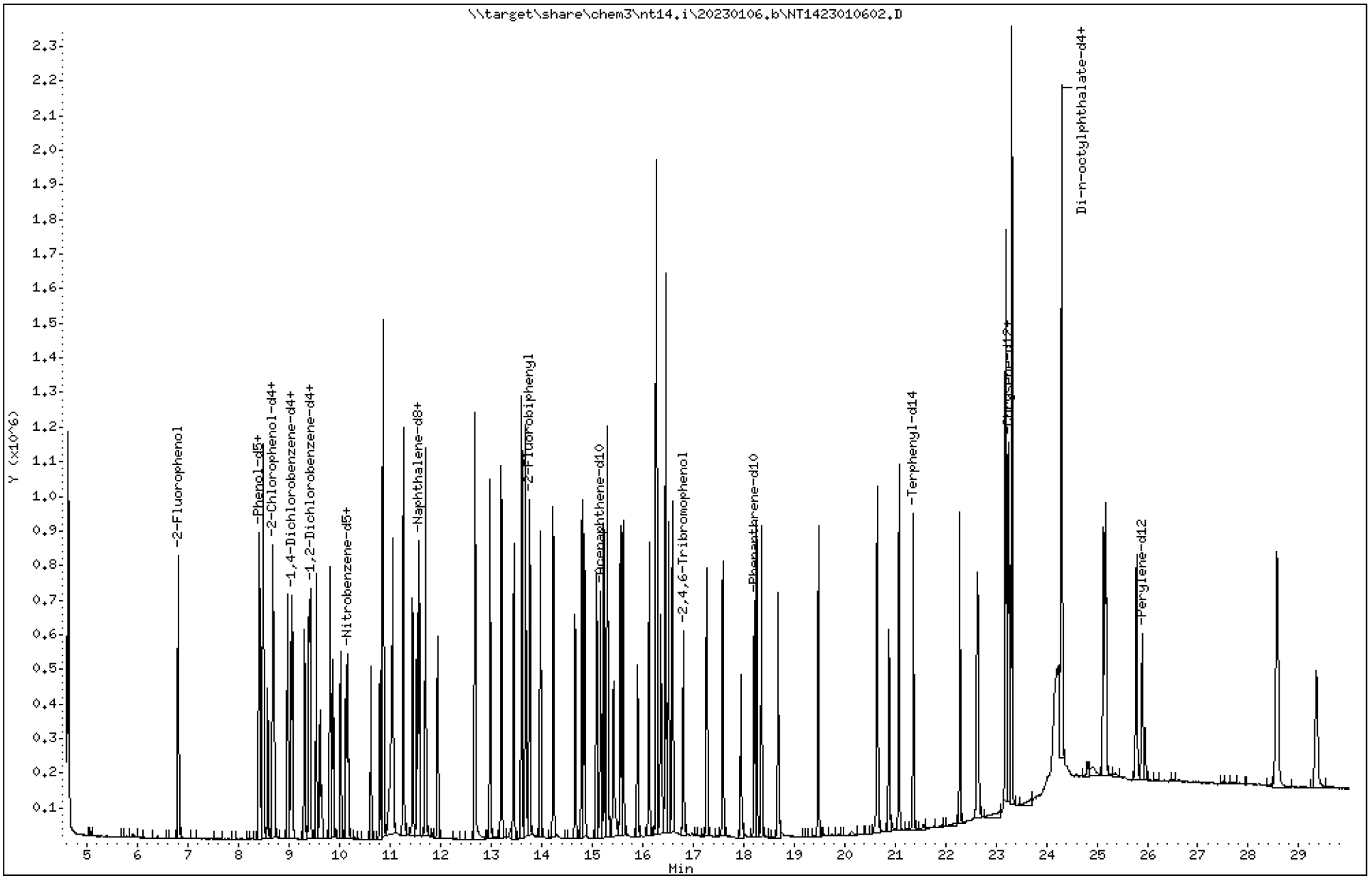
		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.9	1.2153330	1.3272200		9.2	+/-20	
Benzo(a)pyrene	A	5.0000	5.8	1.0450150	1.2184420		16.6	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	5.7	1.1879490	1.3641660		14.8	+/-20	
Dibenzo(a,h)anthracene	A	5.0000	5.6	1.0094890	1.1372200		12.7	+/-20	
Benzo(g,h,i)perylene	A	5.0000	5.6	0.9951726	1.1085160		11.4	+/-20	
1-Methylnaphthalene	A	5.0000	5.4	0.6937882	0.7472028		7.7	+/-20	
2-Fluorophenol	A	7.5000	7.95	1.2814900	1.3588060		6.0	+/-20	
Phenol-d5	A	7.5000	8.07	1.5836890	1.7038430		7.6	+/-20	
2-Chlorophenol-d4	A	7.5000	8.04	1.3300510	1.4262150		7.2	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	5.20	0.9090592	0.9447593		3.9	+/-20	
Nitrobenzene-d5	A	5.0000	5.99	0.3377760	0.4047356		19.8	+/-20	
2-Fluorobiphenyl	A	5.0000	5.49	1.3448860	1.4768620		9.8	+/-20	
2,4,6-Tribromophenol	A	7.5000	7.61	0.1844845	0.1981172		1.5	+/-20	
p-Terphenyl-d14	A	5.0000	6.47	0.9601842	1.2422780		29.4	+/-20	*
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010602.D
Date : 06-JAN-2023 12:05
Client ID:
Sample Info: SLA0068-ICV1

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2772 of 5449

ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010602.D
Lab Smp Id: SLA0068-ICV1
Inj Date : 06-JAN-2023 12:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-ICV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

		QUANT SIG					AMOUNTS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	341693	7.50000	7.952
$	2 Phenol-d5	99	8.403	8.403	(0.930)	428458	7.50000	8.069
	3 Phenol	94	8.426	8.426	(0.932)	308581	5.00000	5.114
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	358644	7.50000	8.042
	4 Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	215511	5.00000	5.185
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	253194	5.00000	5.170
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	262855	5.00000	5.061
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	134115	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	250996	5.00000	5.102
$	10 1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.040)	158383	5.00000	5.196
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	249155	5.00000	5.164
	11 Benzyl alcohol	108	9.308	9.308	(1.030)	145358	5.00000	5.412
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	73987	5.00000	5.289(M)
	13 2-Methylphenol	108	9.541	9.541	(1.056)	235326	5.00000	5.368
	17 Hexachloroethane	117	10.022	10.022	(1.109)	103478	5.00000	5.718
	16 N-Nitroso-di-n-propylamine	70	9.867	9.867	(1.092)	160419	5.00000	6.006
	15 4-Methylphenol	108	9.813	9.813	(1.086)	252100	5.00000	5.451
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	252513	5.00000	5.991
	19 Nitrobenzene	77	10.170	10.170	(0.881)	239996	5.00000	5.734
	20 Isophorone	82	10.620	10.620	(0.920)	327332	5.00000	6.136
	21 2-Nitrophenol	139	10.806	10.806	(0.936)	148958	5.00000	5.546
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	486292	10.0000	11.13
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	219637	5.00000	5.292
	24 Benzoic acid	105	11.062	11.062	(0.958)	445523	20.0000	16.15
	25 2,4-Dichlorophenol	162	11.263	11.263	(0.976)	377282	10.0000	10.25
	26 1,2,4-Trichlorobenzene	180	11.449	11.449	(0.992)	241774	5.00000	6.072
*	27 Naphthalene-d8	136	11.542	11.542	(1.000)	499117	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.003)	631049	5.00000	5.138
	29 4-Chloroaniline	127	11.704	11.704	(1.014)	542754	10.0000	10.71
	30 Hexachlorobutadiene	225	11.951	11.951	(1.035)	126675	5.00000	6.412
	31 4-Chloro-3-methylphenol	107	12.679	12.679	(1.098)	411609	10.0000	11.84
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	481203	5.00000	5.341
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	200658	10.0000	10.20

			QUANT SIG					AMOUNTS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	CAL-AMT (ug/mL)	ON-COL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.607	13.607	(0.897)	262084	10.0000	12.06
	35	2,4,5-Trichlorophenol	196	13.685	13.685	(0.902)	280727	10.0000	11.19
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	480571	5.00000	5.491
	37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	412607	5.00000	5.541
	38	2-Nitroaniline	65	14.234	14.234	(0.938)	269412	10.0000	13.76
	39	Dimethylphthalate	163	14.668	14.668	(0.967)	426964	5.00000	5.816
	40	Acenaphthylene	152	14.853	14.853	(0.979)	634819	5.00000	5.591
	41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	199207	10.0000	12.02
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	260320	4.00000	
	43	3-Nitroaniline	138	15.093	15.093	(0.995)	218313	10.0000	10.84
	44	Acenaphthene	153	15.232	15.232	(1.004)	395148	5.00000	5.611
	45	2,4-Dinitrophenol	184	15.302	15.302	(1.009)	263635	20.0000	17.97
	46	Dibenzofuran	168	15.565	15.565	(1.026)	564761	5.00000	5.348
	47	4-Nitrophenol	109	15.426	15.426	(1.017)	112101	10.0000	11.33
	48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	271610	10.0000	11.95
	50	Diethylphthalate	149	16.137	16.137	(1.064)	549801	5.00000	5.510
	49	Fluorene	166	16.276	16.276	(1.073)	598083	5.00000	5.324
	51	4-Chlorophenyl-phenylether	204	16.268	16.268	(1.072)	269978	5.00000	4.909
	52	4-Nitroaniline	138	16.361	16.361	(1.078)	259036	10.0000	10.43
	53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	376504	20.0000	19.84
	54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	388097	5.00000	5.230
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	96701	7.50000	7.609
	56	4-Bromophenyl-phenylether	248	17.278	17.278	(0.949)	144925	5.00000	5.158
	57	Hexachlorobenzene	284	17.595	17.595	(0.966)	158005	5.00000	5.125
	58	Pentachlorophenol	266	17.952	17.952	(0.986)	79672	10.0000	5.798
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	432406	4.00000	
	60	Phenanthrene	178	18.261	18.261	(1.003)	592944	5.00000	5.259
	61	Anthracene	178	18.354	18.354	(1.008)	605104	5.00000	5.622
	62	Carbazole	167	18.687	18.687	(1.026)	545788	5.00000	5.246
	63	Di-n-butylphthalate	149	19.484	19.484	(1.070)	735694	5.00000	5.958
	64	Fluoranthene	202	20.652	20.652	(0.888)	625126	5.00000	6.107
	65	Pyrene	202	21.077	21.077	(0.906)	648494	5.00000	6.026
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	493630	5.00000	6.469
	67	Butylbenzylphthalate	149	22.285	22.285	(0.958)	296900	5.00000	7.127
	68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	567235	5.00000	5.890
*	69	Chrysene-d12	240	23.268	23.268	(1.000)	317887	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	576155	15.0000	19.54
	71	Chrysene	228	23.315	23.315	(1.002)	546467	5.00000	6.008
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	445974	5.00000	6.047
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	664061	4.00000	
	73	Di-n-octylphthalate	149	24.306	24.306	(1.000)	811464	5.00000	5.091
	74	Benzo(b)fluoranthene	252	25.126	25.126	(0.970)	517010	5.00000	5.244
	75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	570701	5.00000	5.687
	76	Benzo(a)pyrene	252	25.784	25.784	(0.996)	477806	5.00000	5.830
*	77	Perylene-d12	264	25.901	25.901	(1.000)	313716	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.567	28.567	(1.103)	534951	5.00000	5.742
	79	Dibenzo(a,h)anthracene	278	28.574	28.574	(1.103)	445955	5.00000	5.633
	80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	434699	5.00000	5.569
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.487	8.487	(0.939)	599941	10.0000	10.21
	93	Benzidine	184	20.884	20.884	(0.898)	385812	10.0000	9.513
	103	Pyridine	79	4.633	4.633	(0.513)	492623	5.00000	5.239
	105	1-methylnaphthalene	142	13.205	13.205	(1.144)	466177	5.00000	5.385
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.592	16.592	(1.094)	615427	5.00000	6.366

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.173	25.173	(0.972)	1040925	10.0000	10.92
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	95530	5.00000	4.998

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010602.D
Lab Smp Id: SLA0068-ICV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 30-DEC-2022
Calibration Time: 08:06
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	134115	0.00
27 Naphthalene-d8	499117	249559	998234	499117	0.00
42 Acenaphthene-d10	260320	130160	520640	260320	0.00
59 Phenanthrene-d10	432406	216203	864812	432406	0.00
69 Chrysene-d12	317887	158944	635774	317887	0.00
134 Di-n-octylphthala	664061	332031	1328122	664061	0.00
77 Perylene-d12	313716	156858	627432	313716	0.00

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.27	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010602.D

Lab ID: SLA0068-ICV1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 12:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

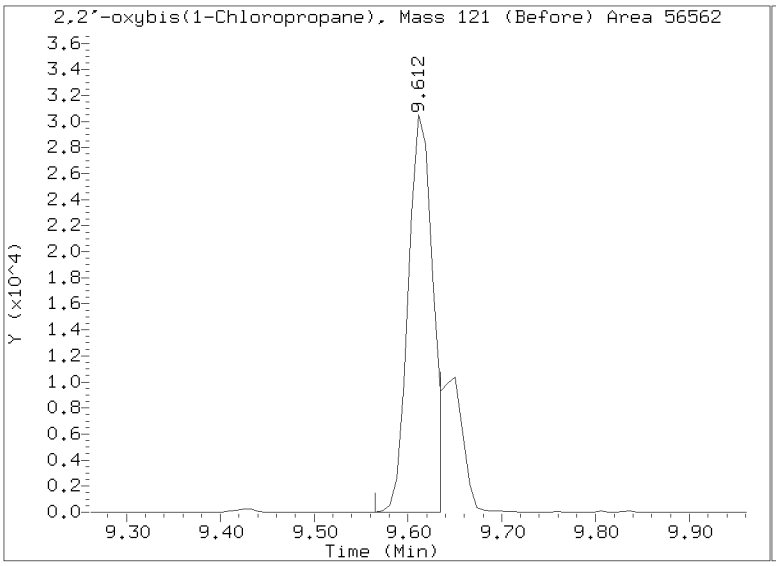
No RRT check. Ccal file.

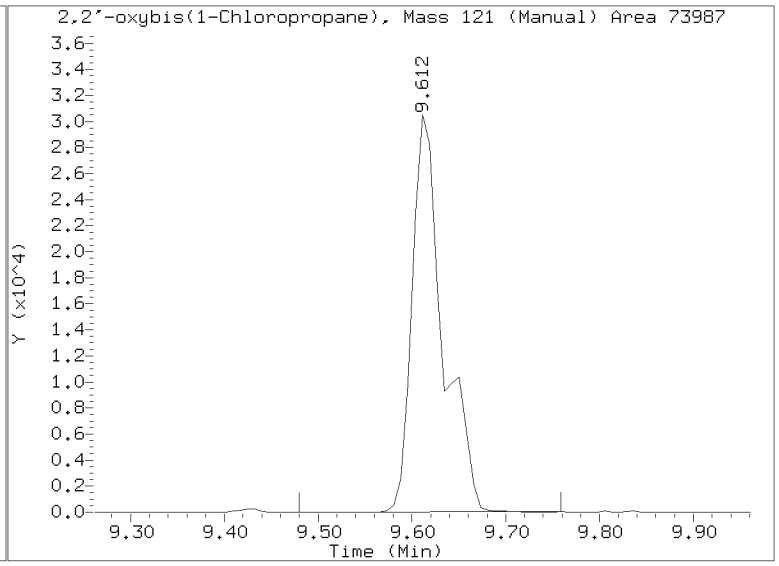
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010602.D
Injection Date: 06-JAN-2023 12:05
Lab ID:SLA0068-ICV1 Client ID:
Report Date: 01/09/2023 15:25





APPROVED

By Deenay Dunmore at 3:37 pm, Jan 09, 2023

Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

Instrument: nt14.i Date: 06-JAN-2023 Method: 20230106.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1423010602.D 06-JAN-2023 12:05

Compound	%D
Isophorone	22.7
1,2,4-Trichlorobenzene	21.4
Hexachlorobutadiene	28.2
2,4,6-Trichlorophenol	20.6
2-Nitroaniline	37.6
Pentachlorophenol	-42.0
Fluoranthene	22.1
Pyrene	20.5
Butylbenzylphthalate	42.5
3,3'-Dichlorobenzidine	30.3
bis(2-Ethylhexyl)phthalate	20.9
N-Nitrosodimethylamine	ND
Azobenzene (1,2-DP-Hydrazine)	27.3
Terphenyl-d14	29.4

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010619.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV2	Injection Time:	22:27
Sequence Name:	SSTD005		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Phenol	A	5.0000	4.8	1.7995200	1.7397840		-3.3	+/-20	
bis(2-chloroethyl) ether	A	5.0000	5.2	1.2396270	1.2820820		3.4	+/-20	
2-Chlorophenol	A	5.0000	5.0	1.4607190	1.4700180		0.6	+/-20	
1,3-Dichlorobenzene	A	5.0000	5.0	1.5489360	1.5519950		0.2	+/-20	
1,4-Dichlorobenzene	A	5.0000	5.6	1.4674070	1.6319800		11.2	+/-20	
1,2-Dichlorobenzene	A	5.0000	5.1	1.4391100	1.4654790		1.8	+/-20	
Benzyl Alcohol	A	5.0000	2.5	0.8011083	0.3983652		-50.3	+/-20	*
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.3	0.4172325	0.4412271		5.8	+/-20	
2-Methylphenol	A	5.0000	5.7	1.3076140	1.4825350		13.4	+/-20	
Hexachloroethane	A	5.0000	5.5	0.5396966	0.5895354		9.2	+/-20	
N-Nitroso-di-n-Propylamine	A	5.0000	6.1	0.7965591	0.9738612		22.3	+/-20	*
4-Methylphenol	A	5.0000	5.0	1.3794240	1.3912120		0.9	+/-20	
Nitrobenzene	A	5.0000	5.8	0.3354574	0.3888868		15.9	+/-20	
Isophorone	A	5.0000	6.2	0.4275424	0.5322924		24.5	+/-20	*
2-Nitrophenol	A	5.0000	5.6	0.2064997	0.2396008		11.3	+/-20	
2,4-Dimethylphenol	A	10.000	11.2	0.3501131	0.3924964		12.1	+/-20	
Bis(2-Chloroethoxy)methane	A	5.0000	5.3	0.3325989	0.3544489		6.6	+/-20	
2,4-Dichlorophenol	A	10.000	10.8	0.2951237	0.3188709		8.0	+/-20	
1,2,4-Trichlorobenzene	A	5.0000	5.8	0.3191088	0.3723772		16.7	+/-20	
Naphthalene	A	5.0000	5.1	0.9843833	1.0129430		2.9	+/-20	
Benzoic acid	A	20.000	13.3	0.1508906	0.1461856		-33.4	+/-20	*
4-Chloroaniline	A	10.000	10.3	0.4059568	0.4193851		3.3	+/-20	
Hexachlorobutadiene	A	5.0000	6.4	0.1583286	0.2011273		27.0	+/-20	*
4-Chloro-3-Methylphenol	A	10.000	11.4	0.2785027	0.3186817		14.4	+/-20	
2-Methylnaphthalene	A	5.0000	5.2	0.7220739	0.7555967		4.6	+/-20	
Hexachlorocyclopentadiene	A	10.000	5.3	0.3023695	0.1593103		-47.3	+/-20	*
2,4,6-Trichlorophenol	A	10.000	11.4	0.3338641	0.3802640		13.9	+/-20	
2,4,5-Trichlorophenol	A	10.000	10.9	0.3853234	0.4182508		8.5	+/-20	
2-Chloronaphthalene	A	5.0000	5.6	1.1441150	1.2768520		11.6	+/-20	
2-Nitroaniline	A	10.000	13.9	0.3007956	0.4193947		39.4	+/-20	*

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010619.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV2	Injection Time:	22:27
Sequence Name:	SSTD005		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Acenaphthylene	A	5.0000	5.7	1.7445240	1.9716940		13.0	+/-20	
Dimethylphthalate	A	5.0000	5.9	1.1280520	1.3259430		17.5	+/-20	
2,6-Dinitrotoluene	A	10.000	12.3	0.2545771	0.3140691		23.4	+/-20	*
Acenaphthene	A	5.0000	5.6	1.0820160	1.2221990		13.0	+/-20	
3-Nitroaniline	A	10.000	11.0	0.3094189	0.3407681		10.1	+/-20	
2,4-Dinitrophenol	A	20.000	14.8	0.1831718	0.1654865		-26.0	+/-20	*
Dibenzofuran	A	5.0000	5.4	1.6225950	1.7631310		8.7	+/-20	
4-Nitrophenol	A	10.000	10.8	0.1384031	0.1644616		8.3	+/-20	
2,4-Dinitrotoluene	A	10.000	12.0	0.3492859	0.4200958		20.3	+/-20	
Fluorene	A	5.0000	5.4	1.7261350	1.8583960		7.7	+/-20	
4-Chlorophenylphenyl ether	A	5.0000	5.0	0.8450792	0.8402100		-0.6	+/-20	
Diethyl phthalate	A	5.0000	5.7	1.5332690	1.7497370		14.1	+/-20	
4-Nitroaniline	A	10.000	10.5	0.3413732	0.3997030		4.7	+/-20	
4,6-Dinitro-2-methylphenol	A	20.000	18.7	0.1530278	0.1636770		-6.5	+/-20	
N-Nitrosodiphenylamine	A	5.0000	5.3	0.6863845	0.7298177		6.3	+/-20	
4-Bromophenyl phenyl ether	A	5.0000	5.1	0.2599074	0.2670855		2.8	+/-20	
Hexachlorobenzene	A	5.0000	5.1	0.2852204	0.2925525		2.6	+/-20	
Pentachlorophenol	A	10.000	4.4	0.1128364	0.0559596		-55.7	+/-20	*
Phenanthrene	A	5.0000	5.3	1.0429190	1.1015550		5.6	+/-20	
Anthracene	A	5.0000	5.7	0.9956202	1.1267580		13.2	+/-20	
Carbazole	A	5.0000	5.3	0.9624945	1.0225280		6.2	+/-20	
Di-n-Butylphthalate	A	5.0000	6.1	1.0394700	1.3895140		21.5	+/-20	*
Fluoranthene	A	5.0000	6.0	1.2879410	1.5441240		19.9	+/-20	
Pyrene	A	5.0000	5.9	1.3541610	1.5918410		17.6	+/-20	
Butylbenzylphthalate	A	5.0000	7.1	0.4650792	0.7403474		41.3	+/-20	*
Benzo(a)anthracene	A	5.0000	5.8	1.2117210	1.4033450		15.8	+/-20	
3,3'-Dichlorobenzidine	A	15.000	20.1	0.3709370	0.4960603		33.7	+/-20	*
Chrysene	A	5.0000	6.1	1.1445730	1.3963330		22.0	+/-20	*
bis(2-Ethylhexyl)phthalate	A	5.0000	6.5	0.4442323	0.5775056		30.0	+/-20	*
Di-n-Octylphthalate	A	5.0000	5.2	0.9601702	1.0000380		4.2	+/-20	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8270E

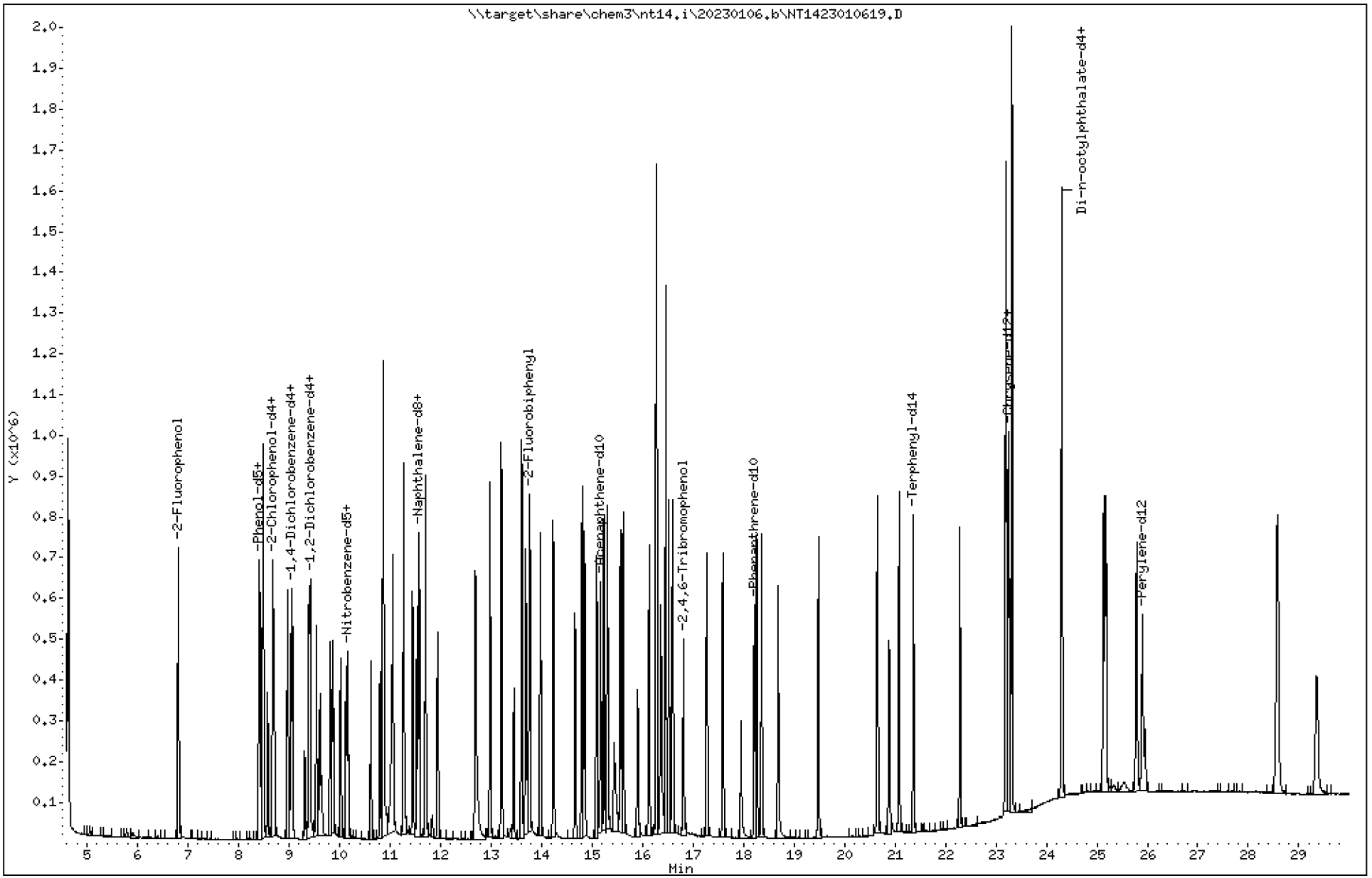
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010619.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-ICV2	Injection Time:	22:27
Sequence Name:	SSTD005		

		CONC. (ug/mL)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Benzofluoranthenes, Total	A	10.000	10.4	1.2153330	1.2648590		4.1	+/-20	
Benzo(a)pyrene	A	5.0000	5.7	1.0450150	1.1897130		13.8	+/-20	
Indeno(1,2,3-cd)pyrene	A	5.0000	5.7	1.1879490	1.3541290		14.0	+/-20	
Dibenzo(a,h)anthracene	A	5.0000	5.7	1.0094890	1.1428890		13.2	+/-20	
Benzo(g,h,i)perylene	A	5.0000	5.2	0.9951726	1.0352660		4.0	+/-20	
1-Methylnaphthalene	A	5.0000	5.3	0.6937882	0.7372614		6.3	+/-20	
2-Fluorophenol	A	7.5000	7.99	1.2814900	1.3646540		6.5	+/-20	
Phenol-d5	A	7.5000	7.84	1.5836890	1.6552690		4.5	+/-20	
2-Chlorophenol-d4	A	7.5000	7.88	1.3300510	1.3966470		5.0	+/-20	
1,2-Dichlorobenzene-d4	A	5.0000	5.20	0.9090592	0.9446317		3.9	+/-20	
Nitrobenzene-d5	A	5.0000	6.08	0.3377760	0.4104266		21.5	+/-20	*
2-Fluorobiphenyl	A	5.0000	5.54	1.3448860	1.4904330		10.8	+/-20	
2,4,6-Tribromophenol	A	7.5000	7.19	0.1844845	0.1866945		-4.2	+/-20	
p-Terphenyl-d14	A	5.0000	5.73	0.9601842	1.1006090		14.6	+/-20	
1,4-Dichlorobenzene-d4	A	4.0000	4.0	37290.1800	1.0000		0.0		
Naphthalene-d8	A	4.0000	4.0	136223.9000	1.0000		0.0		
Acenaphthene-d10	A	4.0000	4.0	73667.8600	1.0000		0.0		
Phenanthrene-d10	A	4.0000	4.0	117990.4000	1.0000		0.0		
Chrysene-d12	A	4.0000	4.0	101321.8000	1.0000		0.0		
Di-n-Octylphthalate-d4	A	4.0000	4.0	149451.2000	1.0000		0.0		
Perylene-d12	A	4.0000	4.0	93469.2100	1.0000		0.0		

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010619.D
Date : 06-JAN-2023 22:27
Client ID:
Sample Info: SLA0068-ICV2

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010619.D
Lab Smp Id: SLA0068-ICV2
Inj Date : 06-JAN-2023 22:27 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-ICV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2 Continuing Calibration Sample
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	291751	7.50000	7.987
$	2 Phenol-d5	99	8.403	8.403	(0.930)	353882	7.50000	7.839
	3 Phenol	94	8.426	8.426	(0.932)	247967	5.00000	4.834
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	298591	7.50000	7.876
	4 Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	182732	5.00000	5.171
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	209518	5.00000	5.032
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	221202	5.00000	5.010
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	114022	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	232602	5.00000	5.561
$	10 1,2-Dichlorobenzene-d4	152	9.401	9.401	(1.040)	134636	5.00000	5.196
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	208871	5.00000	5.092
	11 Benzyl alcohol	108	9.308	9.308	(1.030)	56778	5.00000	2.486
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	62887	5.00000	5.288(M)
	13 2-Methylphenol	108	9.549	9.549	(1.057)	211302	5.00000	5.669
	17 Hexachloroethane	117	10.022	10.022	(1.109)	84025	5.00000	5.462
	16 N-Nitroso-di-n-propylamine	70	9.867	9.867	(1.092)	138802	5.00000	6.113
	15 4-Methylphenol	108	9.813	9.813	(1.086)	198286	5.00000	5.043
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	215809	5.00000	6.075
	19 Nitrobenzene	77	10.170	10.170	(0.882)	204483	5.00000	5.796
	20 Isophorone	82	10.620	10.620	(0.921)	279888	5.00000	6.225
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	125986	5.00000	5.564
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	412762	10.0000	11.21
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	186375	5.00000	5.328
	24 Benzoic acid	105	11.062	11.062	(0.959)	307467	20.0000	13.32
	25 2,4-Dichlorophenol	162	11.271	11.271	(0.977)	335335	10.0000	10.80
	26 1,2,4-Trichlorobenzene	180	11.449	11.449	(0.993)	195802	5.00000	5.835
*	27 Naphthalene-d8	136	11.534	11.534	(1.000)	420653	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	532622	5.00000	5.145
	29 4-Chloroaniline	127	11.712	11.712	(1.015)	441039	10.0000	10.33
	30 Hexachlorobutadiene	225	11.951	11.951	(1.036)	105756	5.00000	6.352
	31 4-Chloro-3-methylphenol	107	12.686	12.686	(1.100)	335136	10.0000	11.44
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	397305	5.00000	5.232
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	86347	10.0000	5.269

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	ON-COL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.607	13.607	(0.897)	206105	10.0000	11.39
35	2,4,5-Trichlorophenol	196	13.693	13.693	(0.903)	226694	10.0000	10.85
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	403911	5.00000	5.541
37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	346030	5.00000	5.580
38	2-Nitroaniline	65	14.234	14.234	(0.938)	227314	10.0000	13.94
39	Dimethylphthalate	163	14.668	14.668	(0.967)	359334	5.00000	5.877
40	Acenaphthylene	152	14.853	14.853	(0.979)	534334	5.00000	5.651
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	170227	10.0000	12.34
* 42	Acenaphthene-d10	164	15.171	15.171	(1.000)	216802	4.00000	
43	3-Nitroaniline	138	15.093	15.093	(0.995)	184698	10.0000	11.01
44	Acenaphthene	153	15.240	15.240	(1.005)	331219	5.00000	5.648
45	2,4-Dinitrophenol	184	15.302	15.302	(1.009)	179389	20.0000	14.80
46	Dibenzofuran	168	15.565	15.565	(1.026)	477813	5.00000	5.433
47	4-Nitrophenol	109	15.433	15.433	(1.017)	89139	10.0000	10.83
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	227694	10.0000	12.03
50	Diethylphthalate	149	16.137	16.137	(1.064)	474183	5.00000	5.706
49	Fluorene	166	16.284	16.284	(1.073)	503630	5.00000	5.383
51	4-Chlorophenyl-phenylether	204	16.268	16.268	(1.072)	227699	5.00000	4.971
52	4-Nitroaniline	138	16.361	16.361	(1.078)	216641	10.0000	10.47
53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	299628	20.0000	18.70
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	334002	5.00000	5.316
$ 55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	75892	7.50000	7.188
56	4-Bromophenyl-phenylether	248	17.278	17.278	(0.949)	122232	5.00000	5.138
57	Hexachlorobenzene	284	17.595	17.595	(0.966)	133887	5.00000	5.129
58	Pentachlorophenol	266	17.952	17.952	(0.986)	51220	10.0000	4.434
* 59	Phenanthrene-d10	188	18.215	18.215	(1.000)	366121	4.00000	
60	Phenanthrene	178	18.269	18.269	(1.003)	504128	5.00000	5.281
61	Anthracene	178	18.362	18.362	(1.008)	515662	5.00000	5.659
62	Carbazole	167	18.687	18.687	(1.026)	467961	5.00000	5.312
63	Di-n-butylphthalate	149	19.491	19.491	(1.070)	635913	5.00000	6.076
64	Fluoranthene	202	20.652	20.652	(0.887)	534427	5.00000	5.995
65	Pyrene	202	21.077	21.077	(0.906)	550942	5.00000	5.878
$ 66	Terphenyl-d14	244	21.364	21.364	(0.918)	380925	5.00000	5.731
67	Butylbenzylphthalate	149	22.285	22.285	(0.957)	256237	5.00000	7.064
68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	485703	5.00000	5.791
* 69	Chrysene-d12	240	23.276	23.276	(1.000)	276883	4.00000	
70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	515065	15.0000	20.06
71	Chrysene	228	23.315	23.315	(1.002)	483276	5.00000	6.100
72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	390279	5.00000	6.500
* 134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	540641	4.00000	
73	Di-n-octylphthalate	149	24.314	24.314	(1.001)	675827	5.00000	5.208
74	Benzo(b)fluoranthene	252	25.134	25.134	(0.970)	522344	5.00000	5.391
75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	503808	5.00000	5.109
76	Benzo(a)pyrene	252	25.785	25.785	(0.996)	458493	5.00000	5.692
* 77	Perylene-d12	264	25.901	25.901	(1.000)	308305	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.574	28.574	(1.103)	521856	5.00000	5.699
79	Dibenzo(a,h)anthracene	278	28.582	28.582	(1.104)	440448	5.00000	5.661
80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	398972	5.00000	5.201
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.487	8.487	(0.939)	508766	10.0000	10.19
93	Benzidine	184	20.884	20.884	(0.897)	340138	10.0000	9.624
103	Pyridine	79	4.633	4.633	(0.513)	415435	5.00000	5.197
105	1-methylnaphthalene	142	13.205	13.205	(1.145)	387664	5.00000	5.313
111	Azobenzene (1,2-DP-Hydrazine)	77	16.600	16.600	(1.094)	536113	5.00000	6.659

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	AMOUNTS CAL-AMT (ug/mL)	AMOUNTS ON-COL (ug/mL)
187 Total Benzofluoranthenes	252	25.134	25.134	(0.970)	974906	10.0000	10.41
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	69773	5.00000	4.407

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010619.D
Lab Smp Id: SLA0068-ICV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	114022	-14.98
27 Naphthalene-d8	499117	249559	998234	420653	-15.72
42 Acenaphthene-d10	260320	130160	520640	216802	-16.72
59 Phenanthrene-d10	432406	216203	864812	366121	-15.33
69 Chrysene-d12	317887	158944	635774	276883	-12.90
134 Di-n-octylphthala	664061	332031	1328122	540641	-18.59
77 Perylene-d12	313716	156858	627432	308305	-1.72

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.53	-0.07
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.28	0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010619.D

Lab ID: SLA0068-ICV2
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 22:27

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

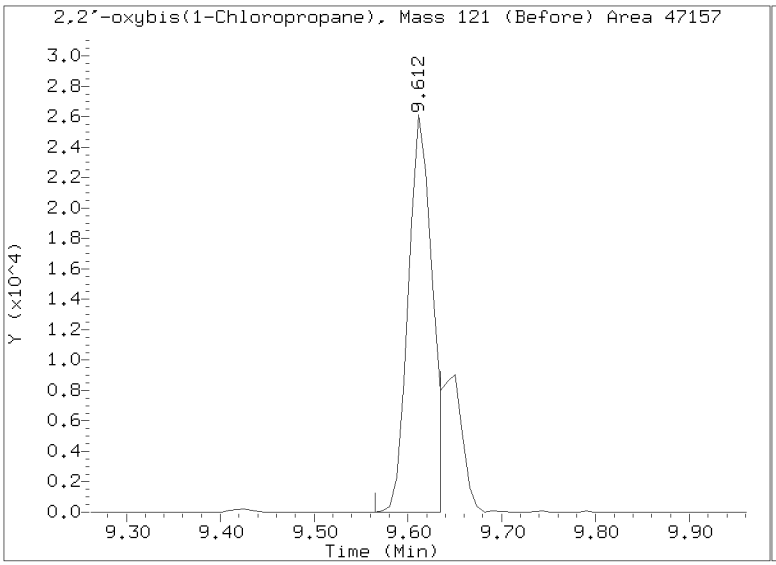
No RRT check. Ccal file.

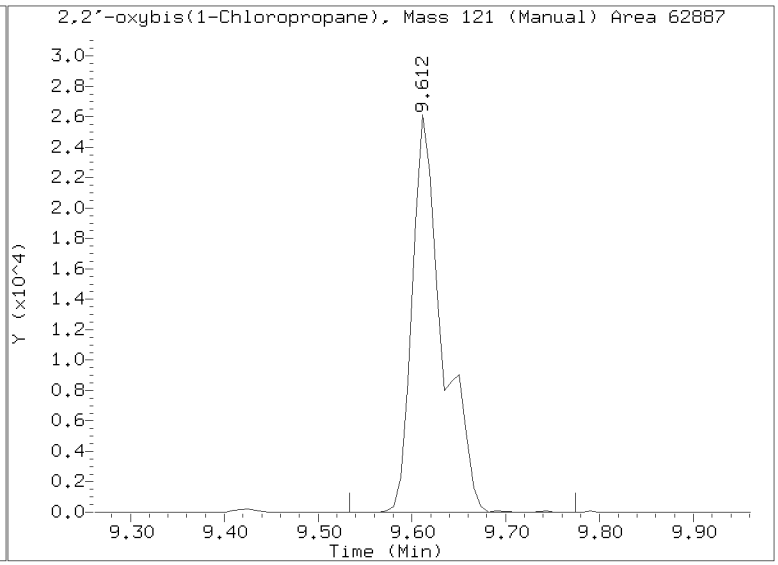
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010619.D
Injection Date: 06-JAN-2023 22:27
Lab ID:SLA0068-ICV2 Client ID:
Report Date: 01/12/2023 08:12





Q-FLAG SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

Instrument: nt14.i Date: 06-JAN-2023 Method: 20230106.b\ABN.m

INITIAL CAL: 30-DEC-2022

Compound	%RSD or R^2
NO Q-FLAGS	

ICV CAL: NT1423010619.D 06-JAN-2023 22:27

Compound	%D
Benzyl alcohol	-50.3
N-Nitroso-di-n-propylamine	22.3
Isophorone	24.5
Benzoic acid	-33.4
Hexachlorobutadiene	27.0
Hexachlorocyclopentadiene	-47.3
2-Nitroaniline	39.4
2,6-Dinitrotoluene	23.4
2,4-Dinitrophenol	-26.0
Pentachlorophenol	-55.7
Di-n-butylphthalate	21.5
Butylbenzylphthalate	41.3
3,3'-Dichlorobenzidine	33.7
Chrysene	22.0
bis(2-Ethylhexyl)phthalate	30.0
N-Nitrosodimethylamine	ND
Azobenzene (1,2-DP-Hydrazine)	33.2
Nitrobenzene-d5	21.5

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	5.0000	4.6	1.7995200	1.6731840		-7.0	+/-50
bis(2-chloroethyl) ether	A	5.0000	4.6	1.2396270	1.1353140		-8.4	+/-50
2-Chlorophenol	A	5.0000	4.7	1.4607190	1.3754550		-5.8	+/-50
1,3-Dichlorobenzene	A	5.0000	4.6	1.5489360	1.4240610		-8.1	+/-50
1,4-Dichlorobenzene	A	5.0000	4.6	1.4674070	1.3461820		-8.3	+/-50
1,2-Dichlorobenzene	A	5.0000	4.6	1.4391100	1.3216280		-8.2	+/-50
Benzyl Alcohol	A	5.0000	4.9	0.8011083	0.7786153		-2.8	+/-50
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.3	0.4172325	0.3583668		-14.1	+/-50
2-Methylphenol	A	5.0000	4.8	1.3076140	1.2542810		-4.1	+/-50
Hexachloroethane	A	5.0000	4.4	0.5396966	0.4720417		-12.5	+/-50
N-Nitroso-di-n-Propylamine	A	5.0000	5.1	0.7965591	0.8192319		2.8	+/-50
4-Methylphenol	A	5.0000	4.9	1.3794240	1.3458060		-2.4	+/-50
Nitrobenzene	A	5.0000	5.0	0.3354574	0.3326707		-0.8	+/-50
Isophorone	A	5.0000	5.3	0.4275424	0.4559427		6.6	+/-50
2-Nitrophenol	A	5.0000	5.3	0.2064997	0.2291351		6.7	+/-50
2,4-Dimethylphenol	A	10.000	9.5	0.3501131	0.3314908		-5.3	+/-50
Bis(2-Chloroethoxy)methane	A	5.0000	4.6	0.3325989	0.3066220		-7.8	+/-50
2,4-Dichlorophenol	A	10.000	10.2	0.2951237	0.3014082		2.1	+/-50
1,2,4-Trichlorobenzene	A	5.0000	4.4	0.3191088	0.2836408		-11.1	+/-50
Naphthalene	A	5.0000	4.5	0.9843833	0.8905064		-9.5	+/-50
Benzoic acid	A	20.000	16.5	0.1508906	0.1821334		-17.7	+/-50
4-Chloroaniline	A	10.000	9.9	0.4059568	0.4009825		-1.2	+/-50
Hexachlorobutadiene	A	5.0000	4.7	0.1583286	0.1487629		-6.0	+/-50
4-Chloro-3-Methylphenol	A	10.000	10.3	0.2785027	0.2878108		3.3	+/-50
2-Methylnaphthalene	A	5.0000	4.8	0.7220739	0.6897975		-4.5	+/-50
Hexachlorocyclopentadiene	A	10.000	3.6	0.3023695	0.1086819		-64.1	+/-50
2,4,6-Trichlorophenol	A	10.000	10.4	0.3338641	0.3462884		3.7	+/-50
2,4,5-Trichlorophenol	A	10.000	9.9	0.3853234	0.3824028		-0.8	+/-50
2-Chloronaphthalene	A	5.0000	4.6	1.1441150	1.0481300		-8.4	+/-50
2-Nitroaniline	A	10.000	11.3	0.3007956	0.3389274		12.7	+/-50
Acenaphthylene	A	5.0000	5.0	1.7445240	1.7594450		0.9	+/-50
Dimethylphthalate	A	5.0000	4.8	1.1280520	1.0808130		-4.2	+/-50
2,6-Dinitrotoluene	A	10.000	10.1	0.2545771	0.2581819		1.4	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	4.6	1.0820160	0.9999683		-7.6	+/-50
3-Nitroaniline	A	10.000	9.7	0.3094189	0.2995874		-3.2	+/-50
2,4-Dinitrophenol	A	20.000	13.3	0.1831718	0.1482472		-33.5	+/-50
Dibenzofuran	A	5.0000	4.5	1.6225950	1.4657240		-9.7	+/-50
4-Nitrophenol	A	10.000	9.2	0.1384031	0.1391299		-8.0	+/-50
2,4-Dinitrotoluene	A	10.000	9.9	0.3492859	0.3448000		-1.3	+/-50
Fluorene	A	5.0000	5.1	1.7261350	1.7687430		2.5	+/-50
4-Chlorophenylphenyl ether	A	5.0000	4.9	0.8450792	0.8314608		-1.6	+/-50
Diethyl phthalate	A	5.0000	5.4	1.5332690	1.6478880		7.5	+/-50
4-Nitroaniline	A	10.000	9.0	0.3413732	0.3423503		-10.0	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	16.5	0.1530278	0.1432829		-17.7	+/-50
N-Nitrosodiphenylamine	A	5.0000	4.8	0.6863845	0.6588924		-4.0	+/-50
4-Bromophenyl phenyl ether	A	5.0000	4.7	0.2599074	0.2455607		-5.5	+/-50
Hexachlorobenzene	A	5.0000	4.6	0.2852204	0.2597005		-8.9	+/-50
Pentachlorophenol	A	10.000	6.1	0.1128364	0.0780640		-38.7	+/-50
Phenanthrene	A	5.0000	4.5	1.0429190	0.9402024		-9.8	+/-50
Anthracene	A	5.0000	4.9	0.9956202	0.9773434		-1.8	+/-50
Carbazole	A	5.0000	4.7	0.9624945	0.9134956		-5.1	+/-50
Di-n-Butylphthalate	A	5.0000	5.4	1.0394700	1.2185270		7.3	+/-50
Fluoranthene	A	5.0000	4.6	1.2879410	1.1892920		-7.7	+/-50
Pyrene	A	5.0000	4.5	1.3541610	1.2242240		-9.6	+/-50
Butylbenzylphthalate	A	5.0000	5.4	0.4650792	0.5665680		8.8	+/-50
Benzo(a)anthracene	A	5.0000	4.8	1.2117210	1.1678500		-3.6	+/-50
3,3'-Dichlorobenzidine	A	15.000	16.9	0.3709370	0.4172378		12.5	+/-50
Chrysene	A	5.0000	4.7	1.1445730	1.0805530		-5.6	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	4.9	0.4442323	0.4327024		-2.6	+/-50
Di-n-Octylphthalate	A	5.0000	4.3	0.9601702	0.8245230		-14.1	+/-50
Benzofluoranthenes, Total	A	10.000	10.9	1.2153330	1.3219910		8.8	+/-50
Benzo(a)pyrene	A	5.0000	5.0	1.0450150	1.0478520		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	2.6	1.1879490	0.6106120		-48.6	+/-50
Dibenzo(a,h)anthracene	A	5.0000	2.7	1.0094890	0.5545234		-45.1	+/-50
Benzo(g,h,i)perylene	A	5.0000	2.1	0.9951726	0.4142591		-58.4	+/-50
1-Methylnaphthalene	A	5.0000	4.8	0.6937882	0.6669162		-3.9	+/-50
2-Fluorophenol	A	7.5000	7.42	1.2814900	1.2675890		-1.1	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123083.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-CCV1	Injection Time:	09:41
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.47	1.5836890	1.5763910		-0.5	+/-50
2-Chlorophenol-d4	A	7.5000	7.43	1.3300510	1.3175380		-0.9	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.70	0.9090592	0.8543946		-6.0	+/-50
Nitrobenzene-d5	A	5.0000	5.26	0.3377760	0.3550974		5.1	+/-50
2-Fluorobiphenyl	A	5.0000	4.66	1.3448860	1.2542170		-6.7	+/-50
2,4,6-Tribromophenol	A	7.5000	6.74	0.1844845	0.1746731		-10.1	+/-50
p-Terphenyl-d14	A	5.0000	4.28	0.9601842	0.8214505		-14.4	+/-50

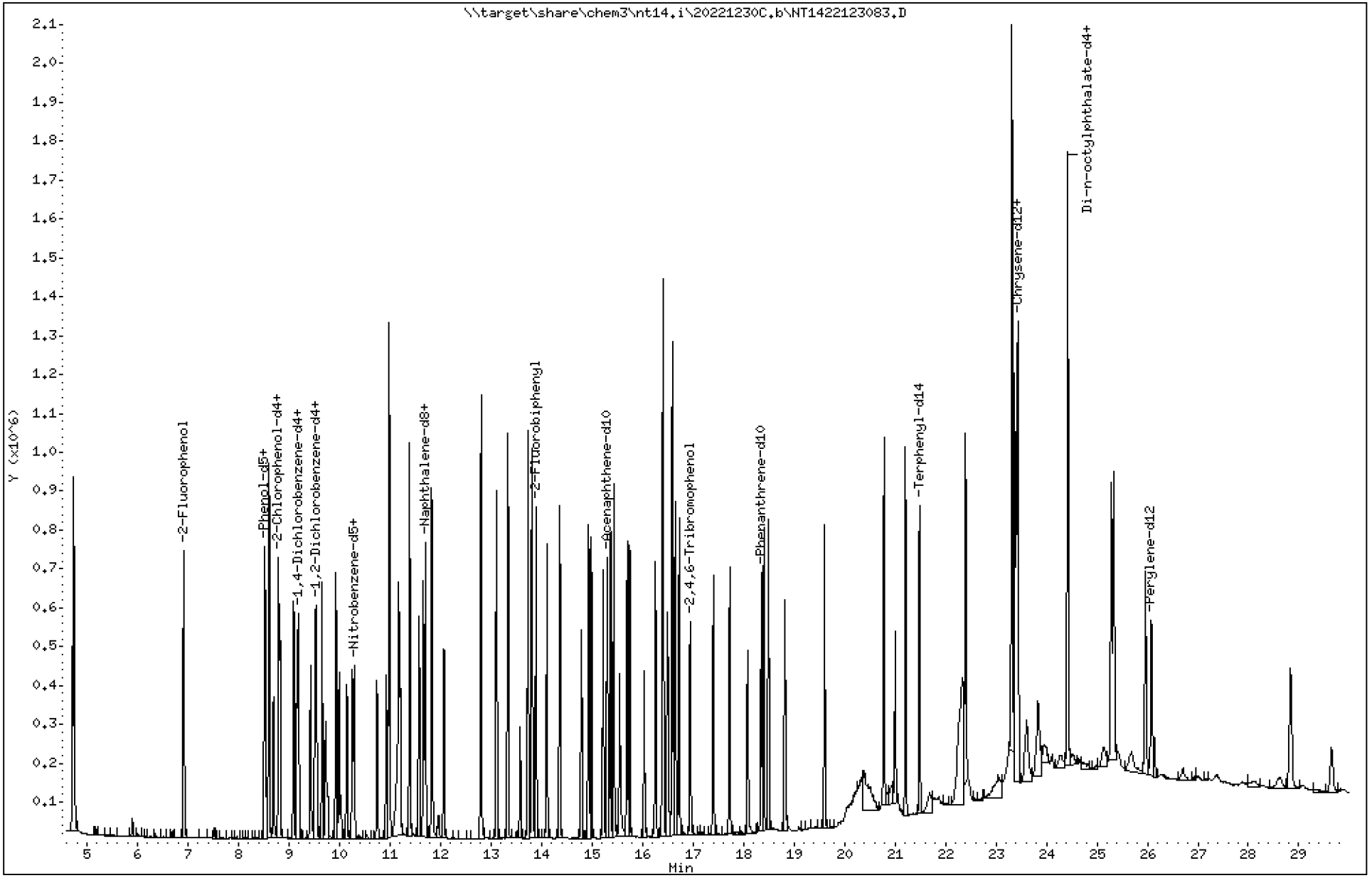
* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D
Date : 01-JAN-2023 09:41
Client ID:
Sample Info: SKL0355-CCV1

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

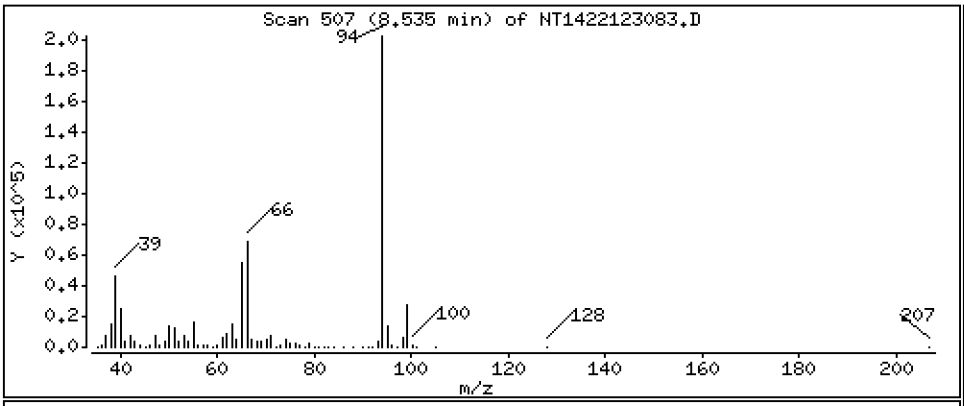
Operator: VTS

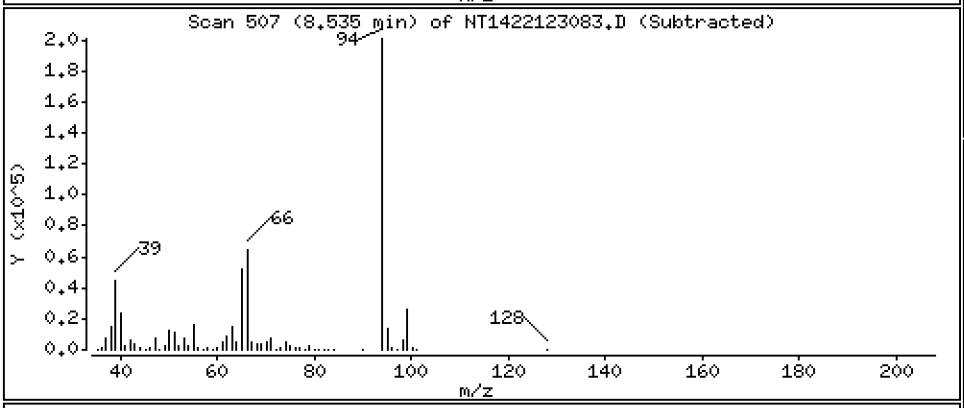
Column phase: ZB-5msi

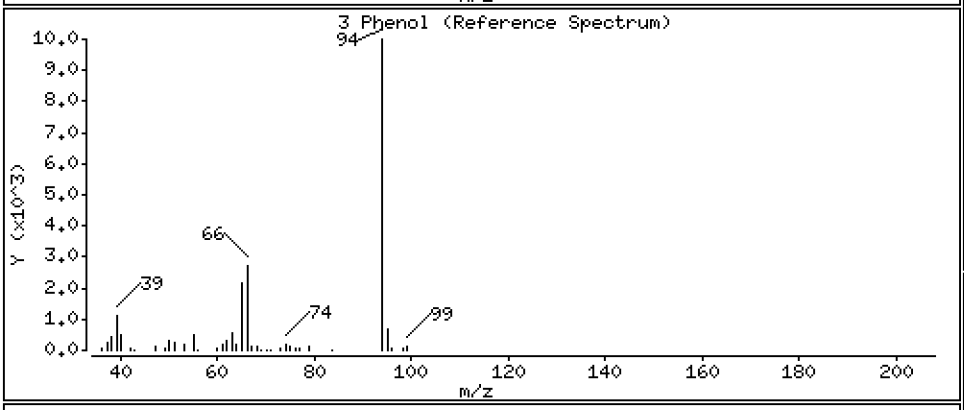
Column diameter: 0.25

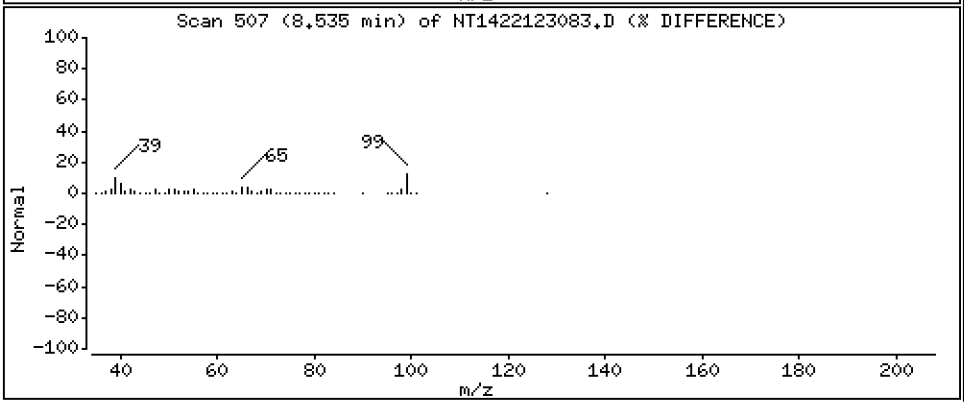
3 Phenol

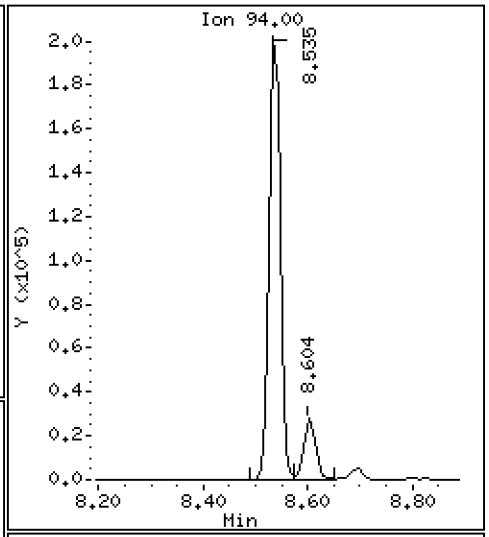
Concentration: 4.649 ug/mL

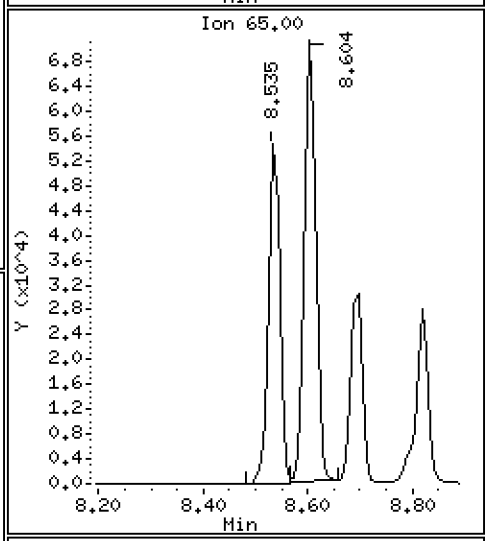


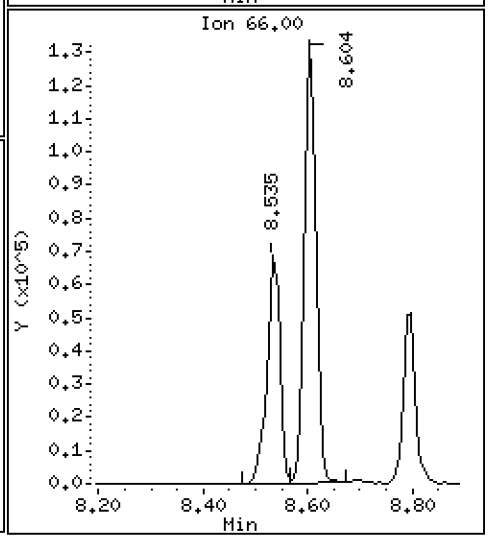












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

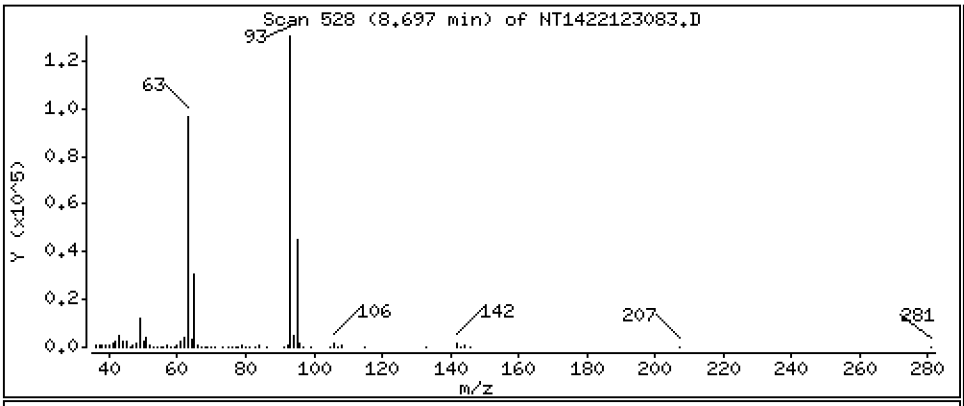
Operator: VTS

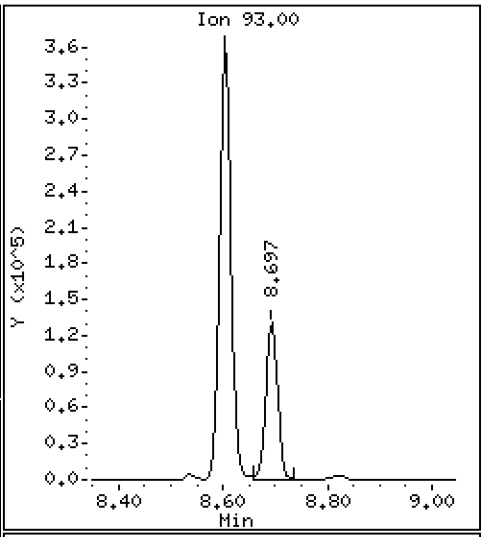
Column phase: ZB-5msi

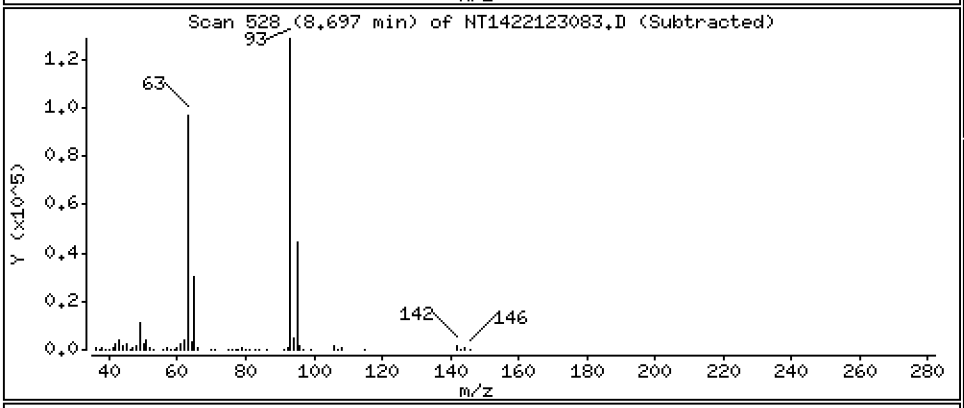
Column diameter: 0.25

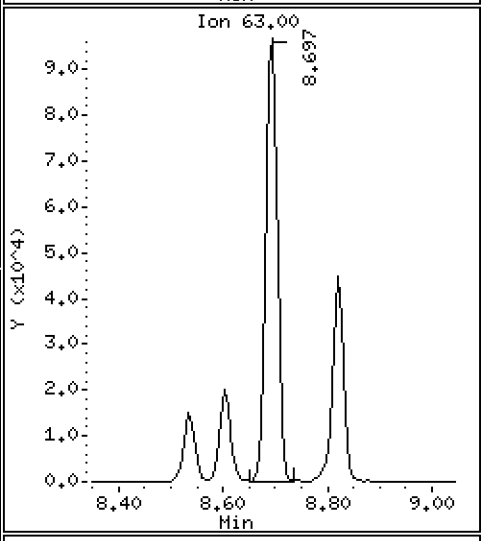
4 Bis(2-Chloroethyl)ether

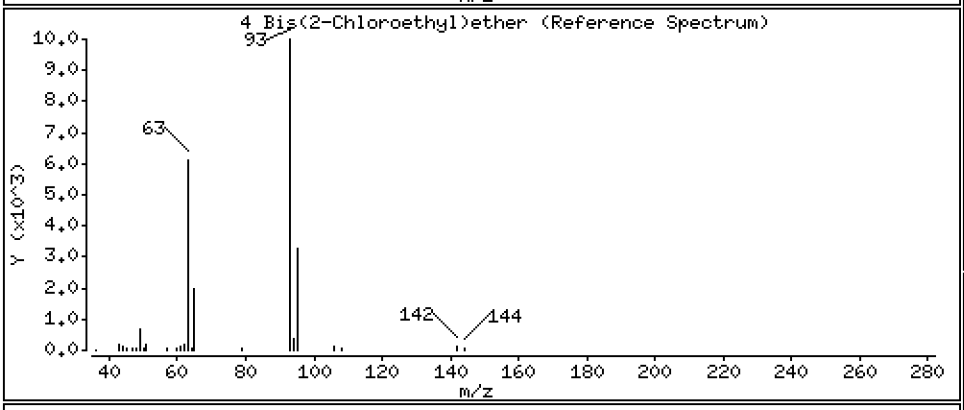
Concentration: 4.579 ug/mL

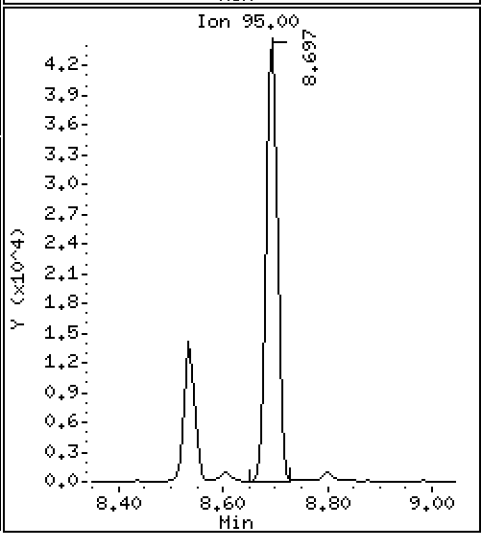


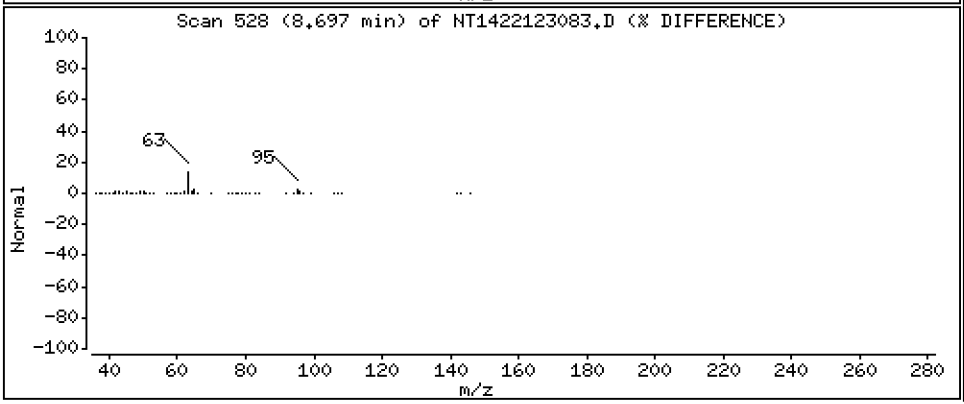












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

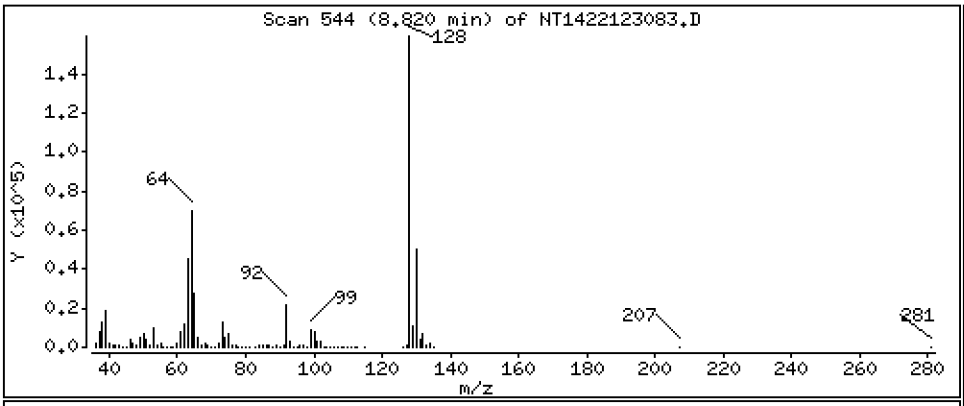
Operator: VTS

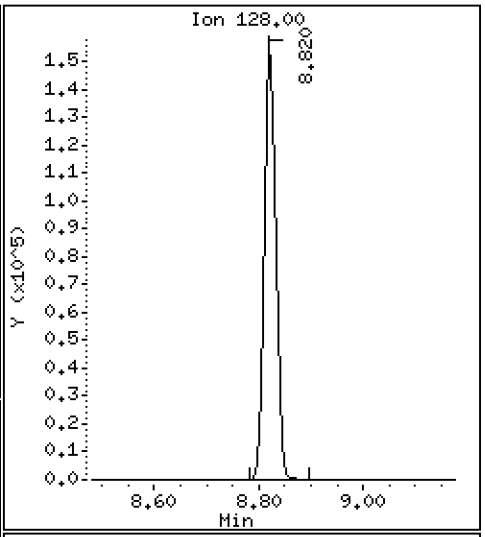
Column phase: ZB-5msi

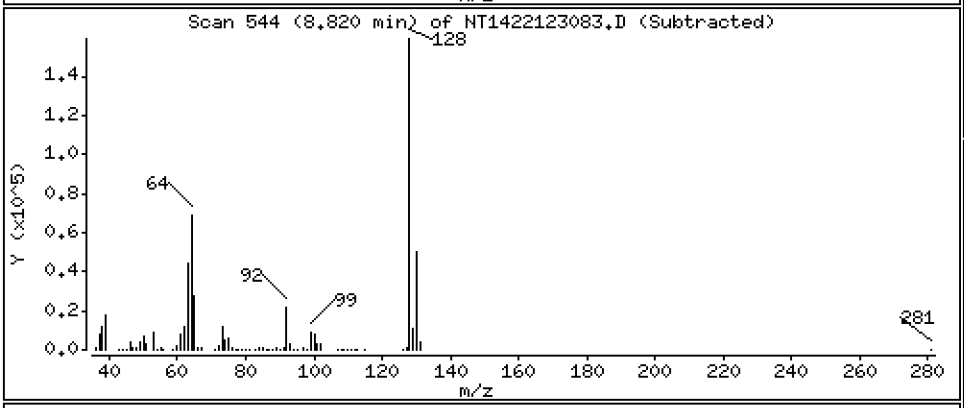
Column diameter: 0.25

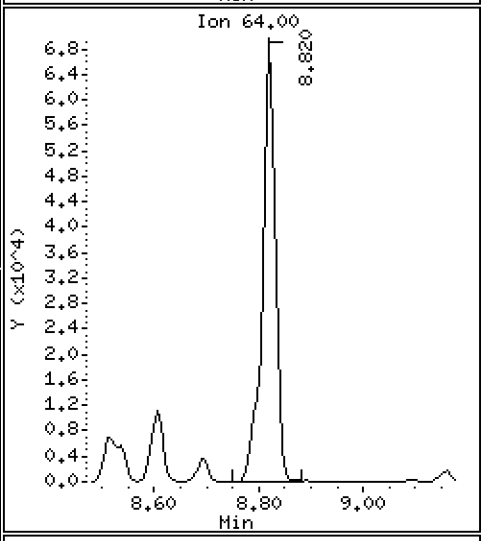
6 2-Chlorophenol

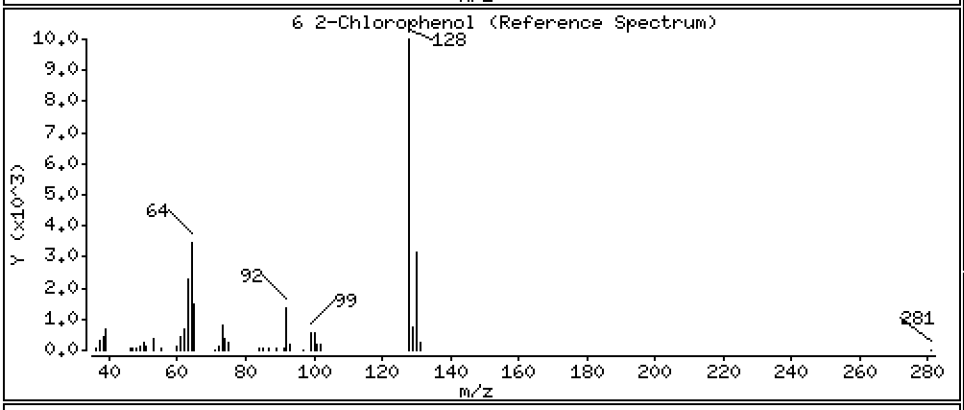
Concentration: 4.708 ug/mL

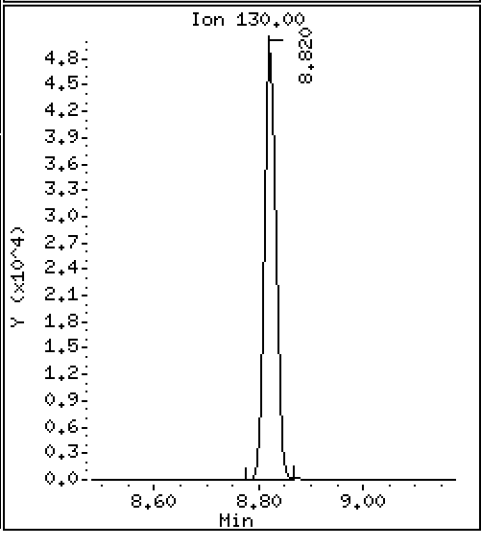


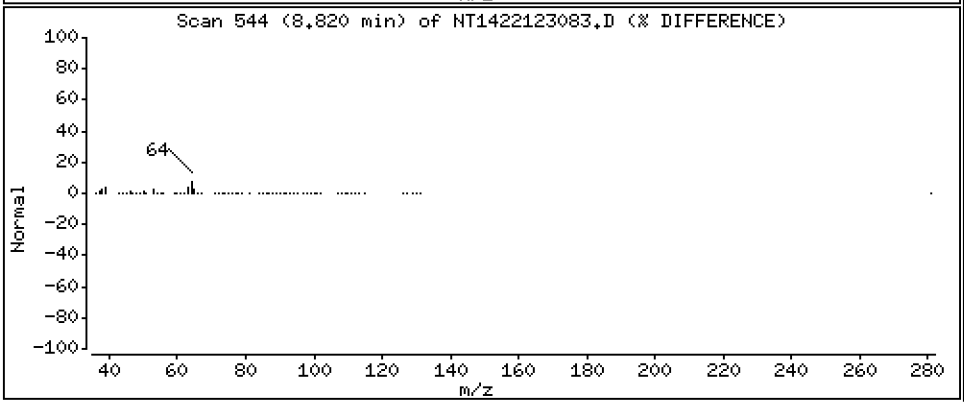












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

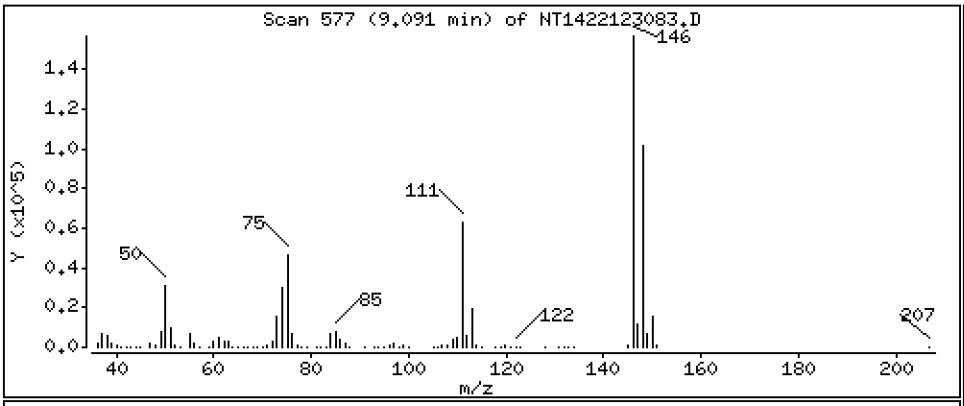
Operator: VTS

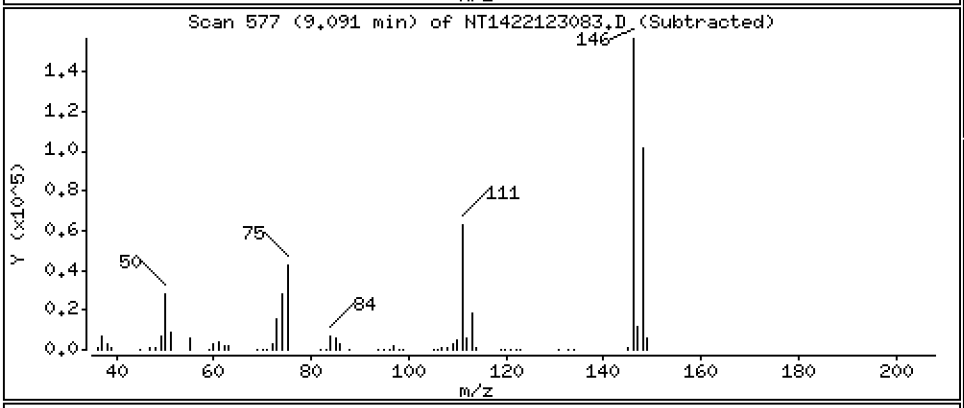
Column phase: ZB-5msi

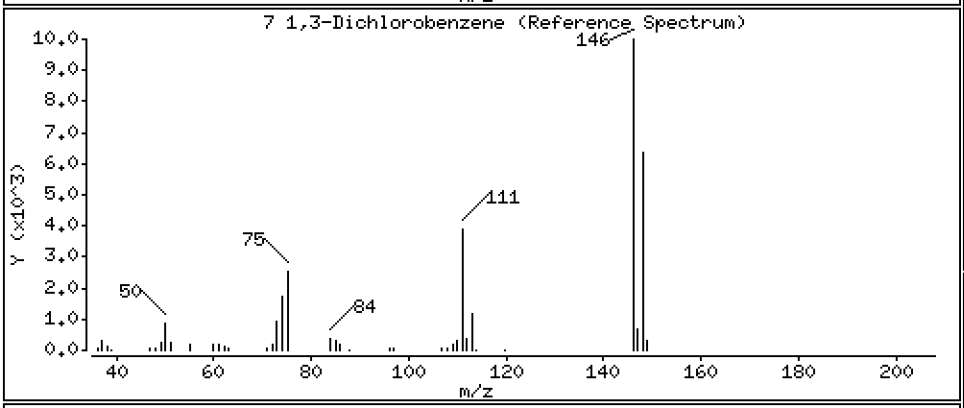
Column diameter: 0.25

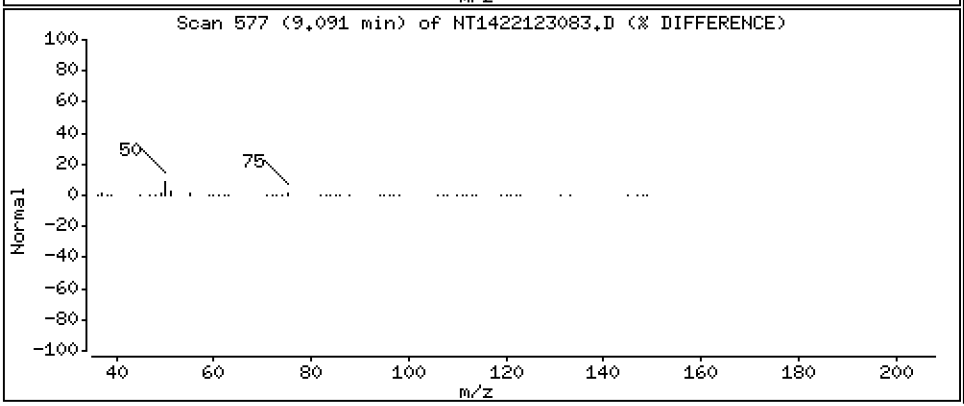
7 1,3-Dichlorobenzene

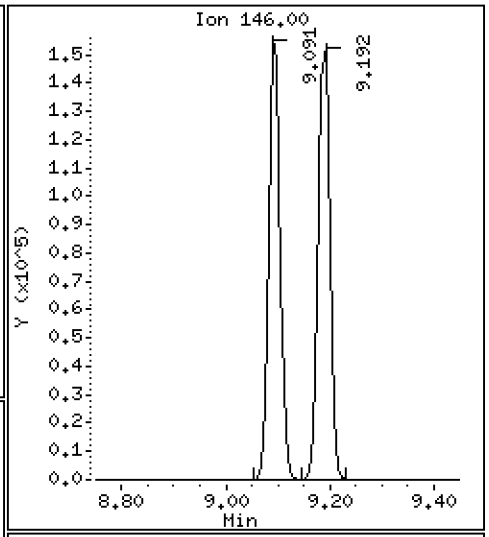
Concentration: 4.597 ug/mL

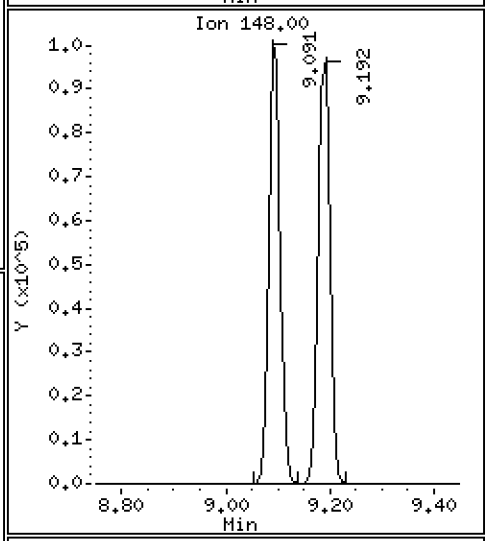


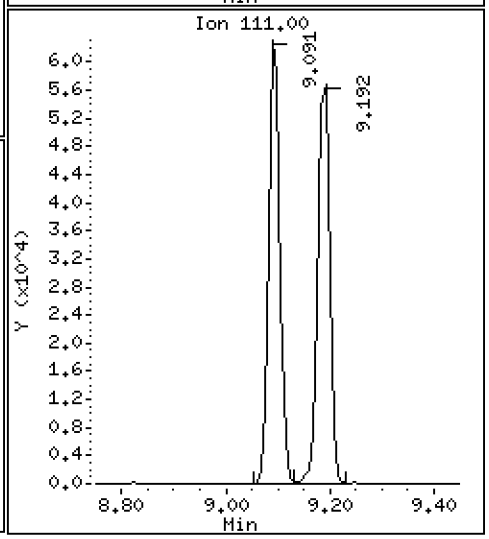












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

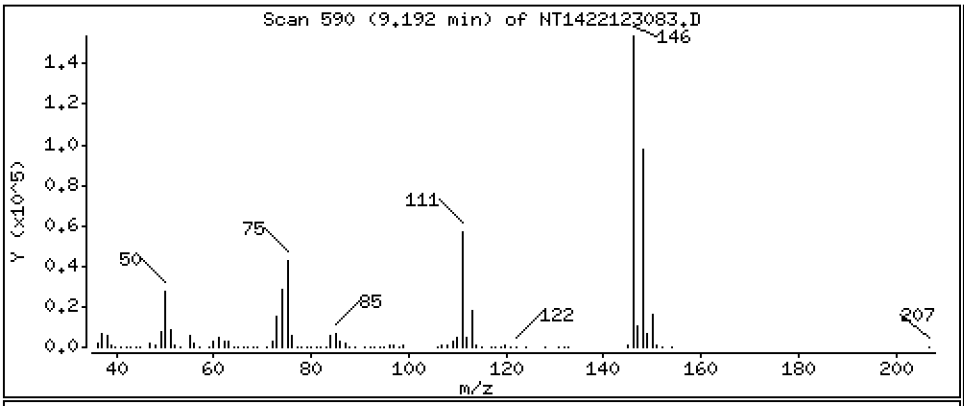
Operator: VTS

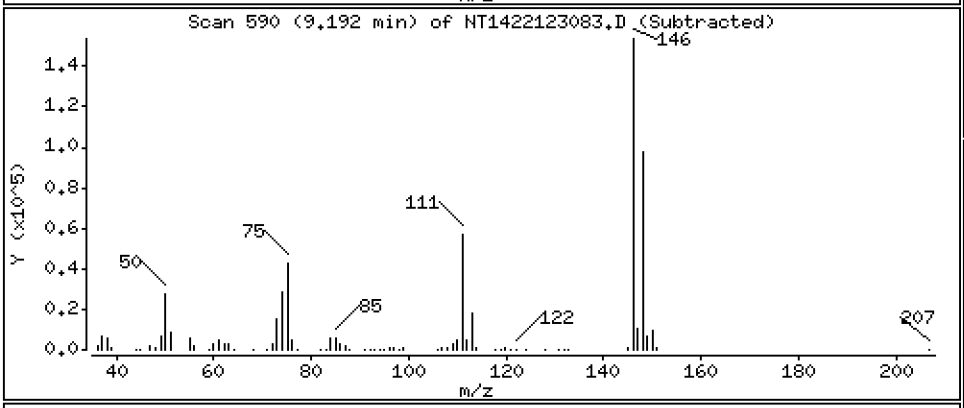
Column phase: ZB-5msi

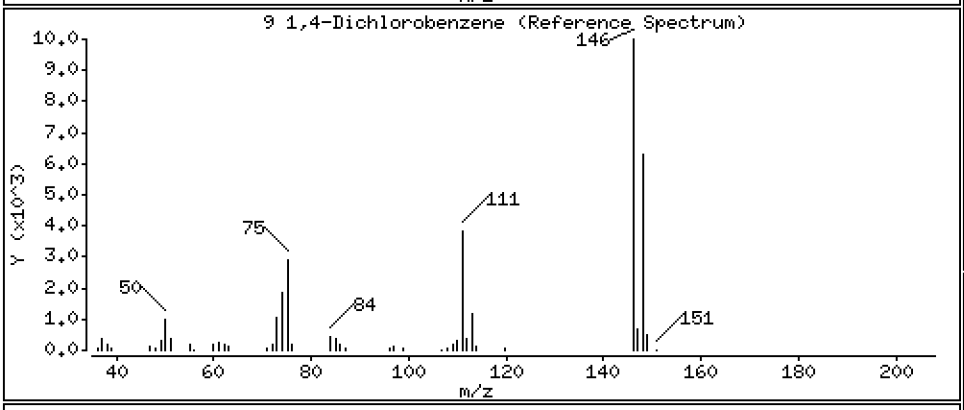
Column diameter: 0.25

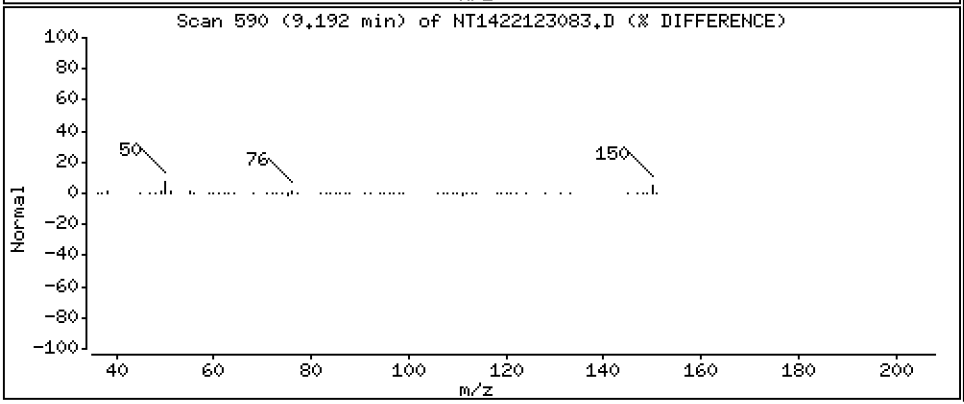
9 1,4-Dichlorobenzene

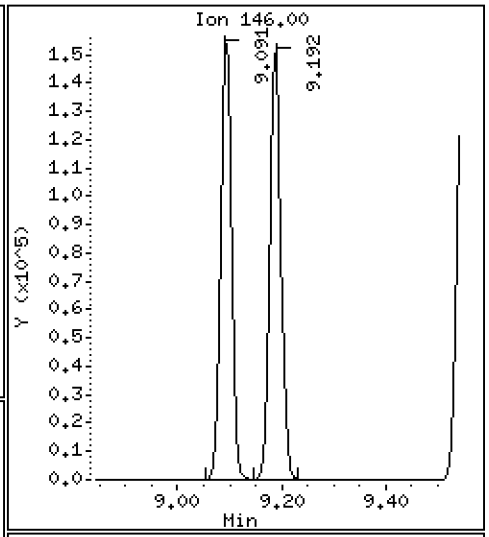
Concentration: 4.587 ug/mL

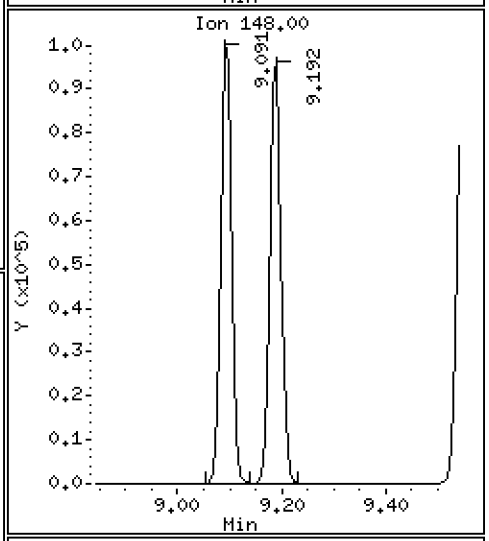


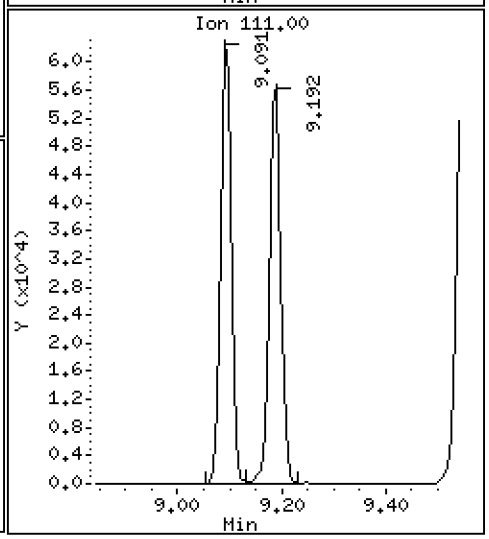












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

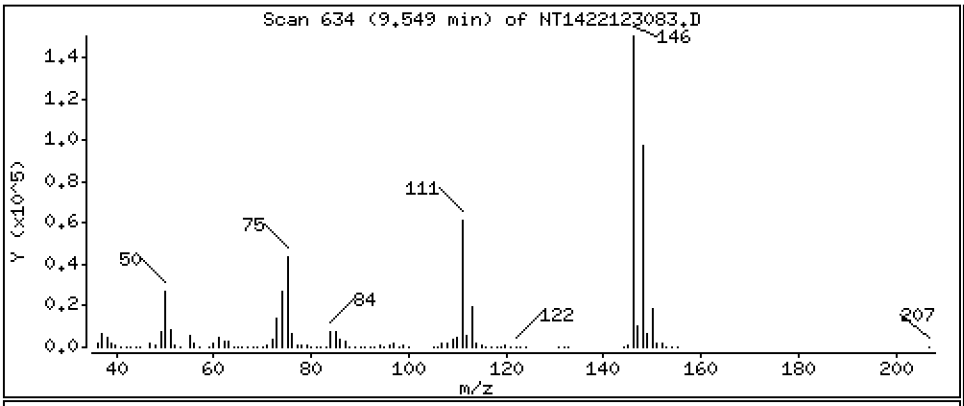
Operator: VTS

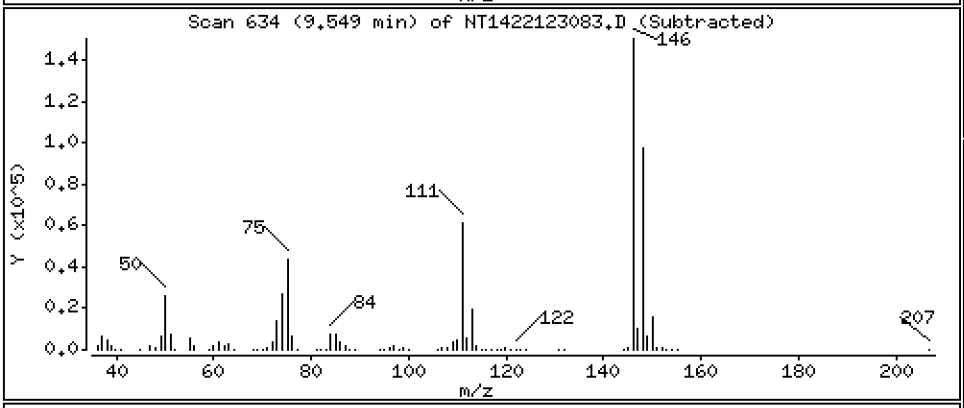
Column phase: ZB-5msi

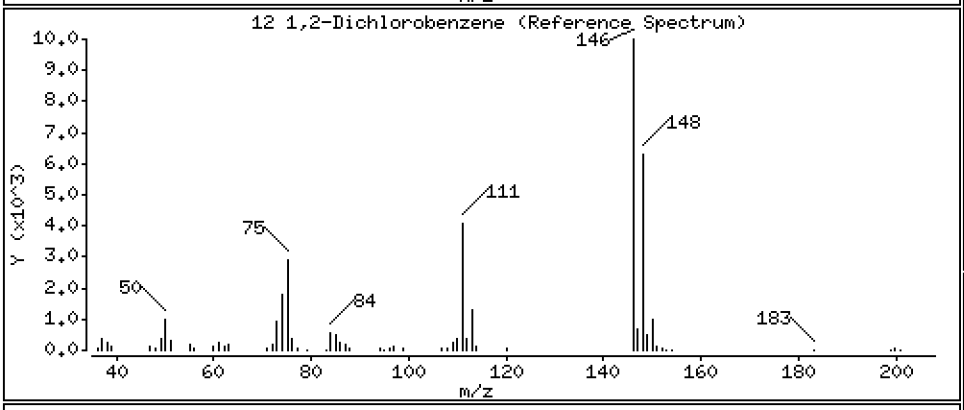
Column diameter: 0.25

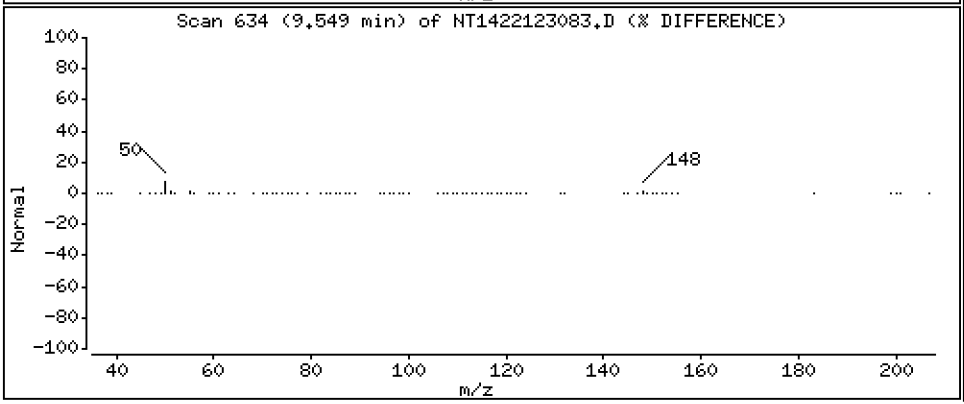
12 1,2-Dichlorobenzene

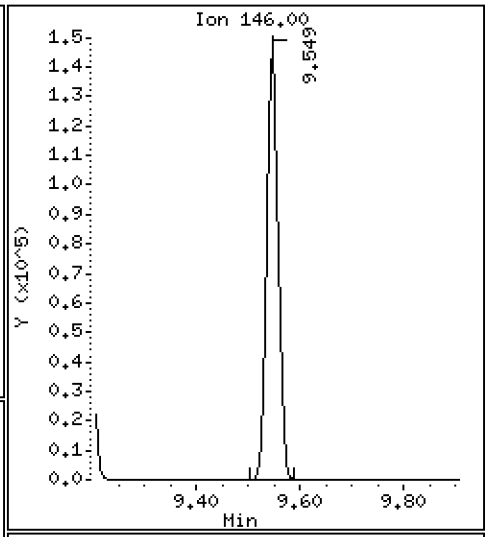
Concentration: 4.592 ug/mL

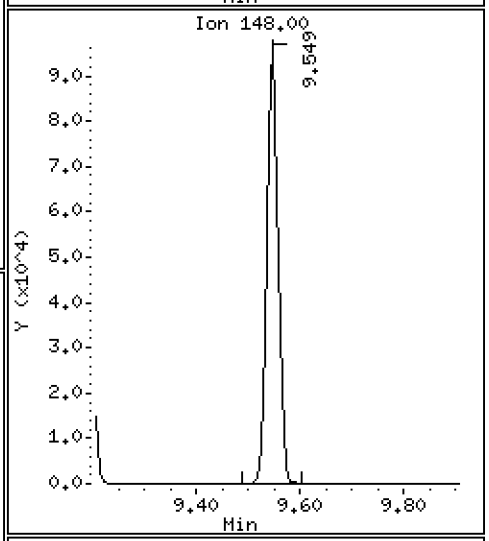


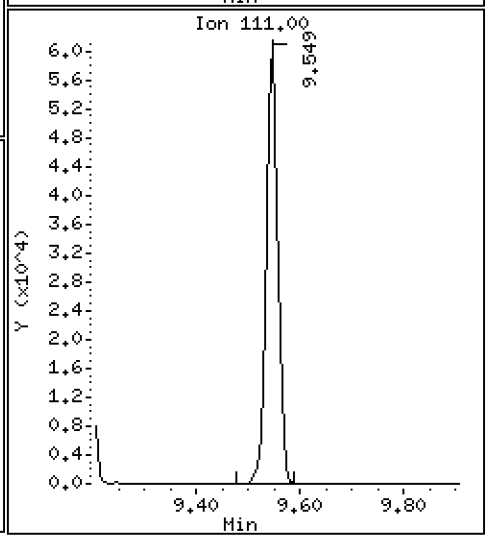












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

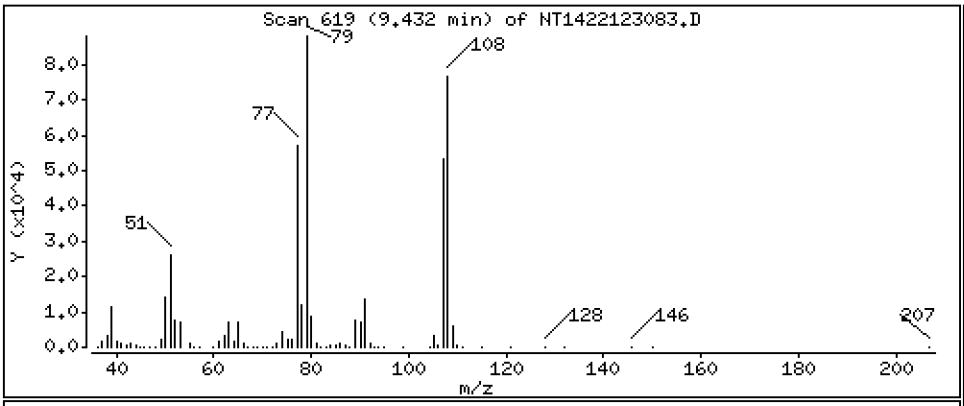
Operator: VTS

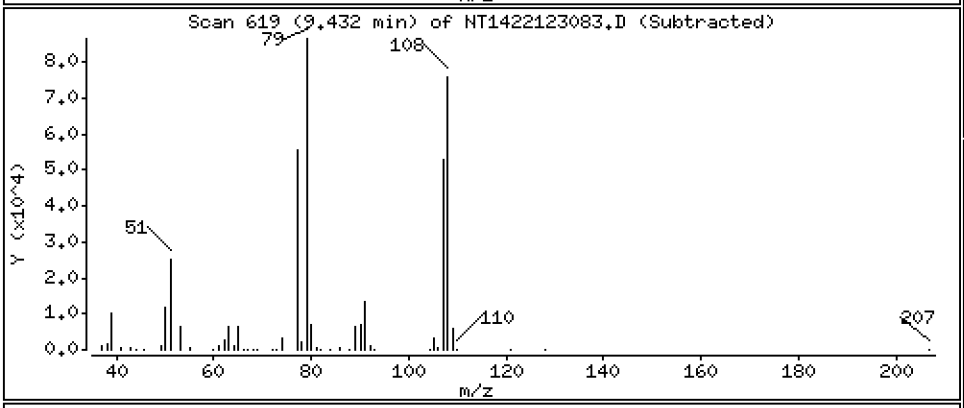
Column phase: ZB-5msi

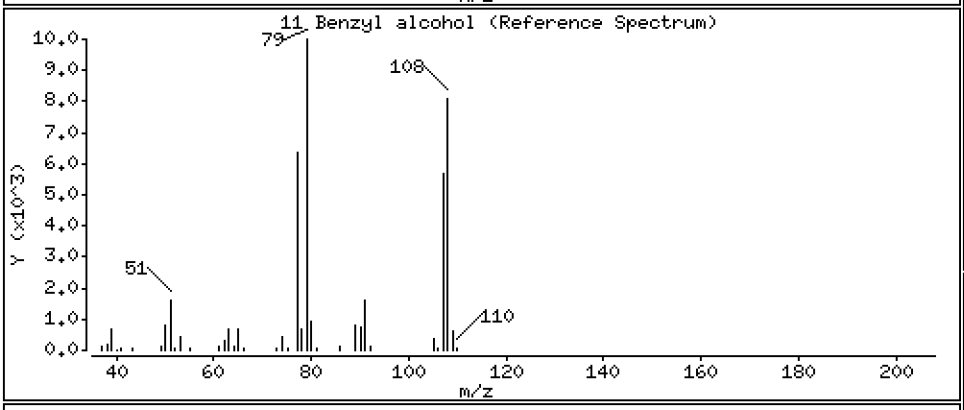
Column diameter: 0.25

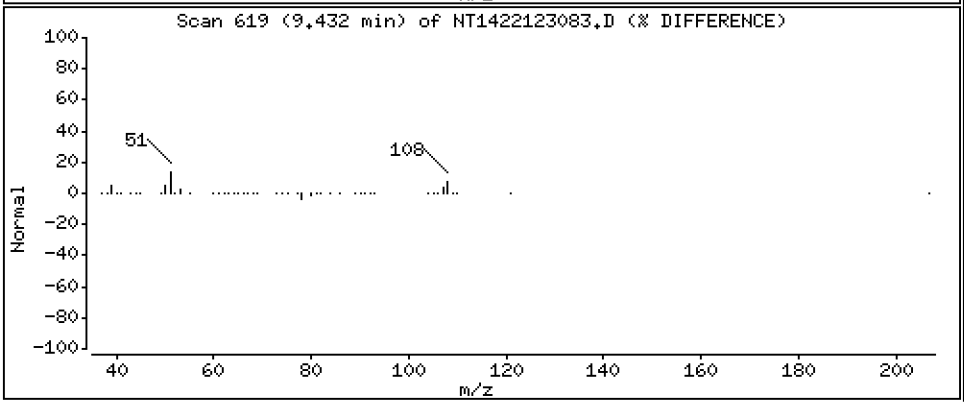
11 Benzyl alcohol

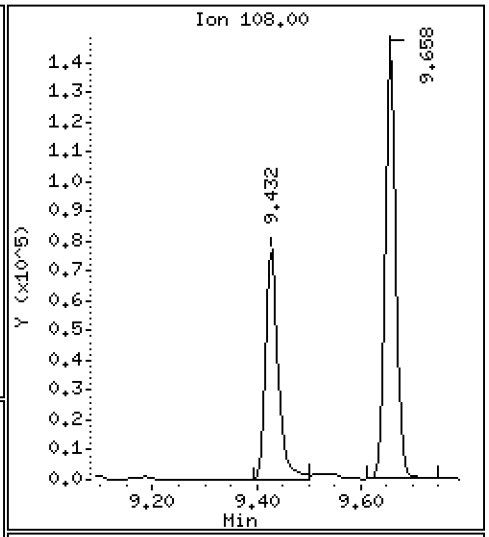
Concentration: 4.860 ug/mL

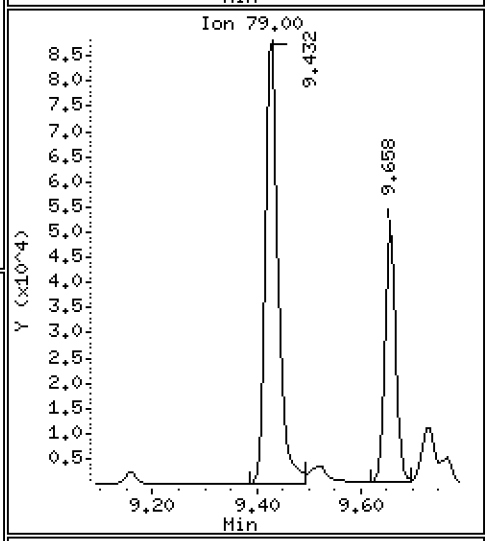


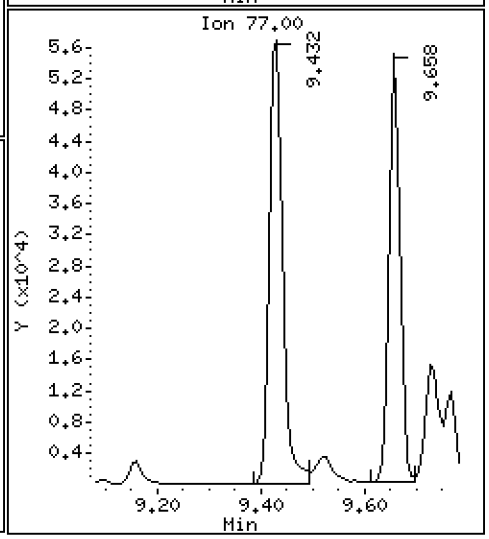












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

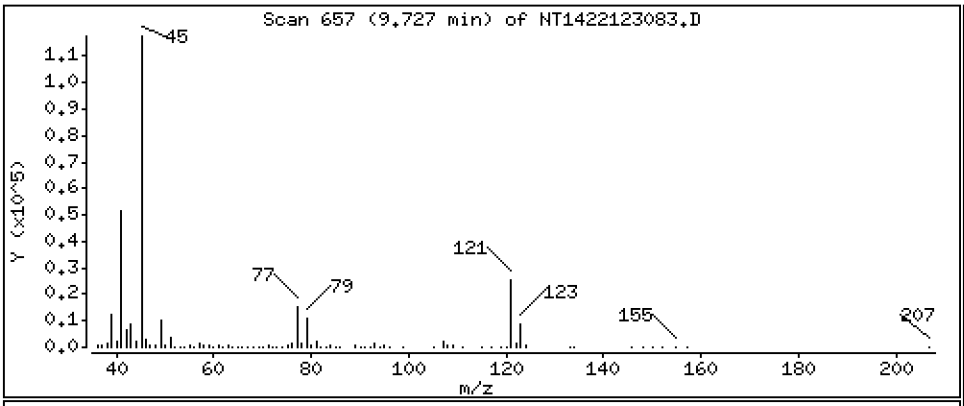
Operator: VTS

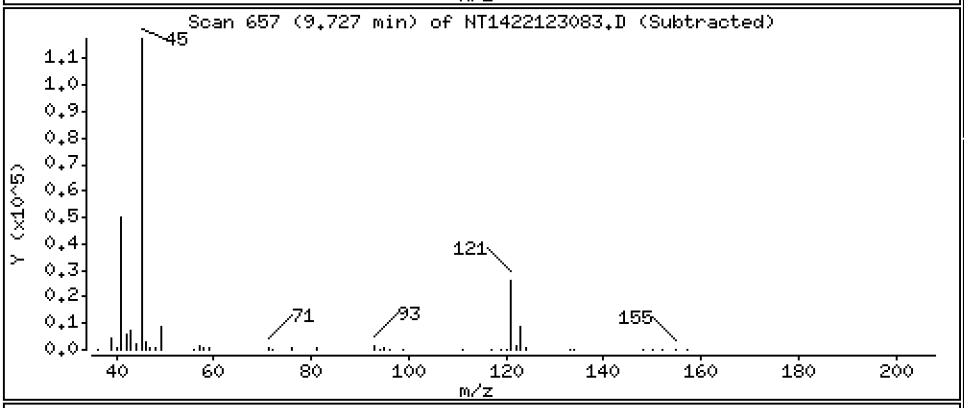
Column phase: ZB-5msi

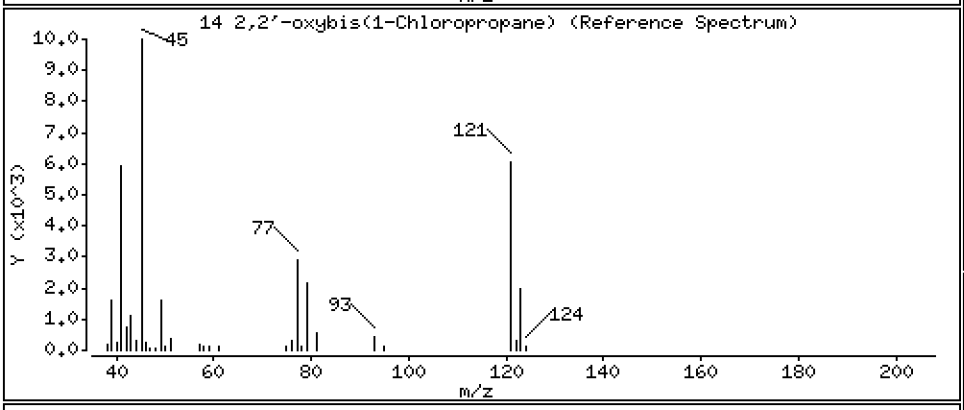
Column diameter: 0.25

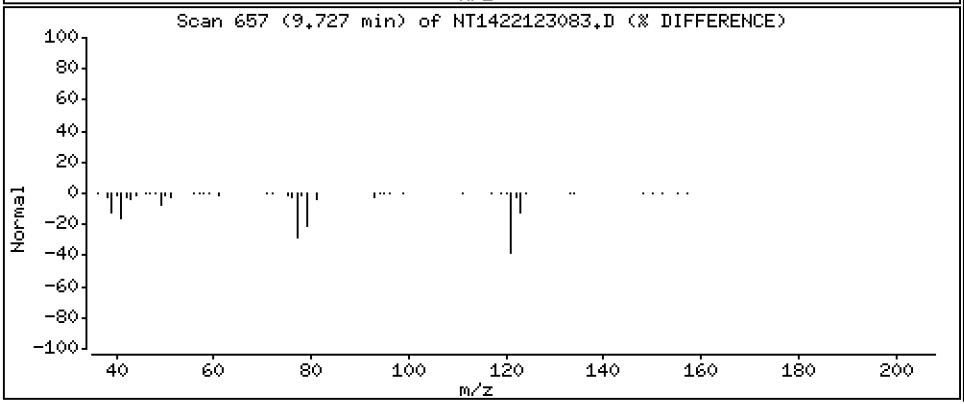
14 2,2'-oxybis(1-Chloropropane)

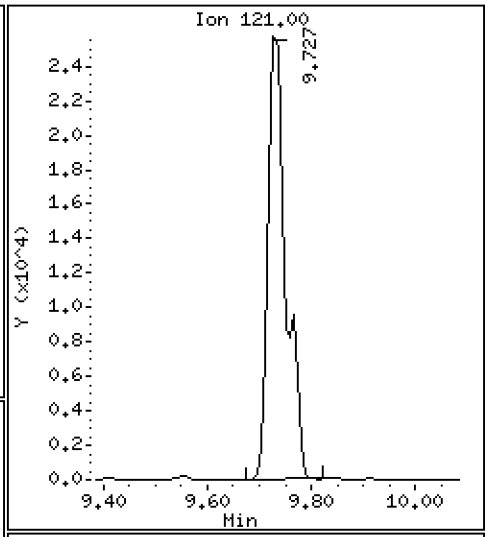
Concentration: 4.295 ug/mL

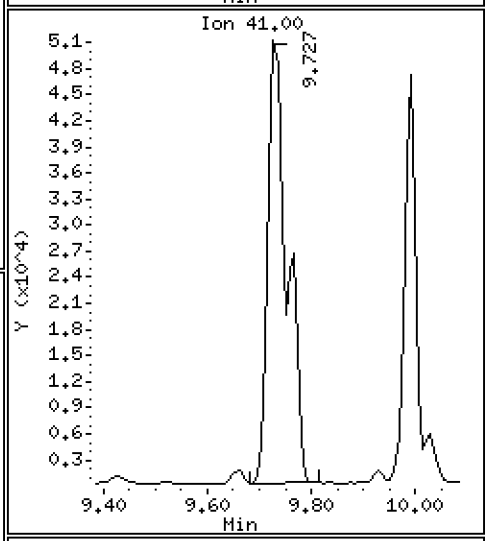


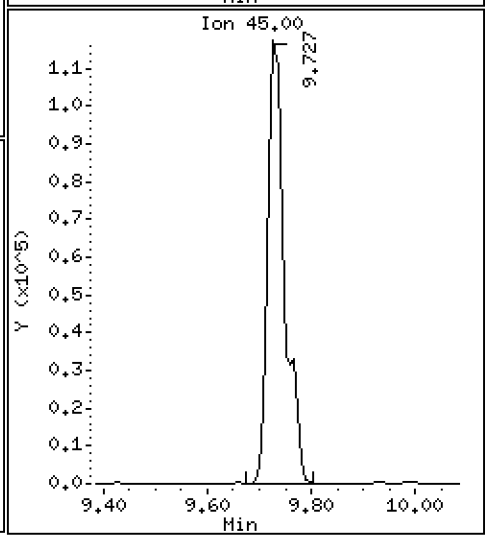












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

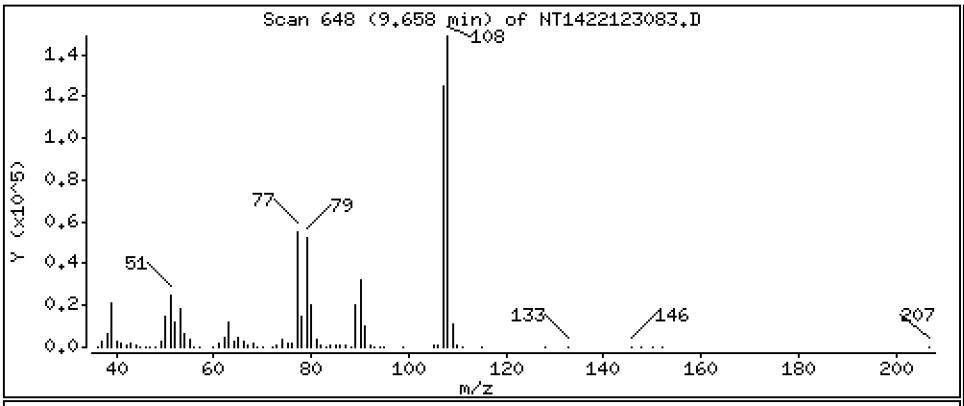
Operator: VTS

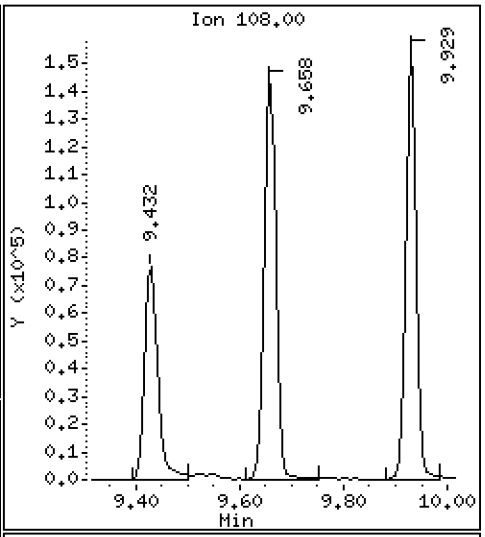
Column phase: ZB-5msi

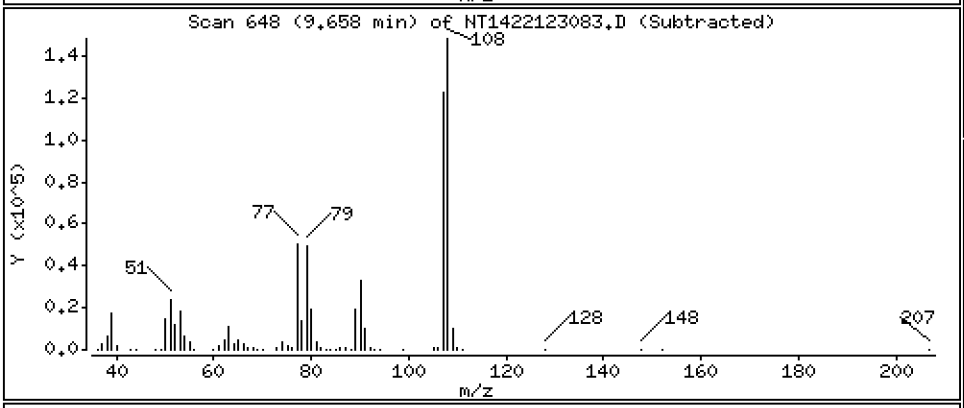
Column diameter: 0.25

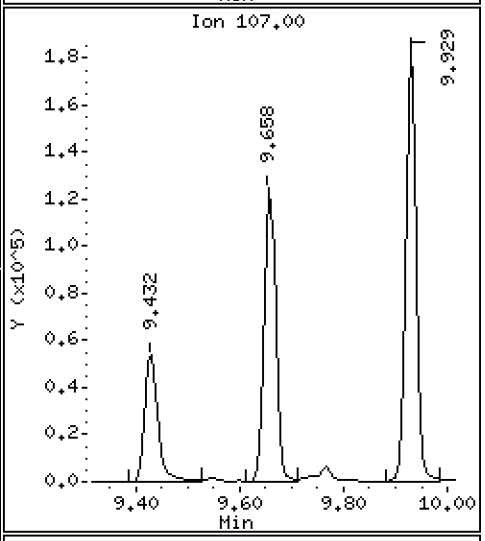
13 2-Methylphenol

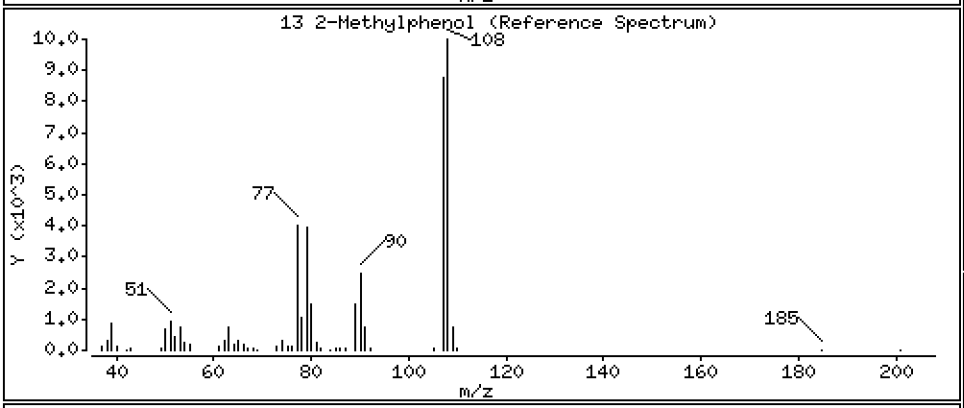
Concentration: 4.796 ug/mL

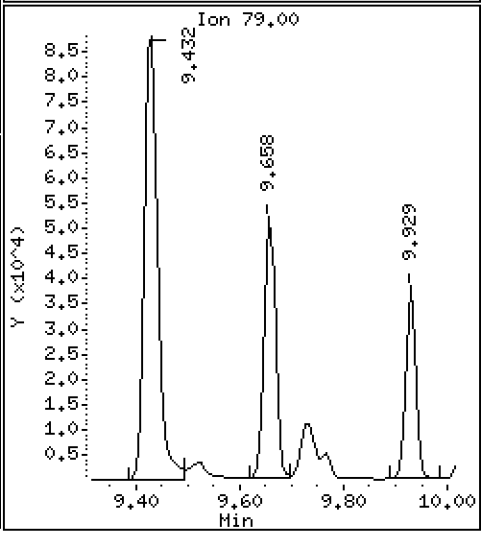


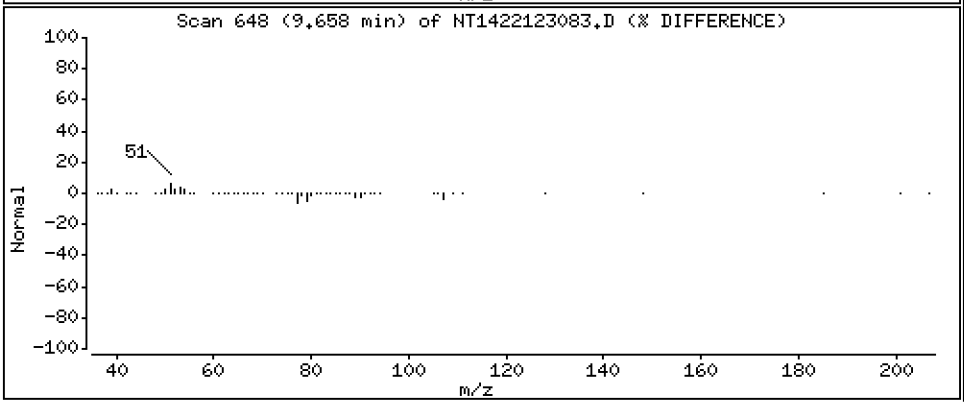












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

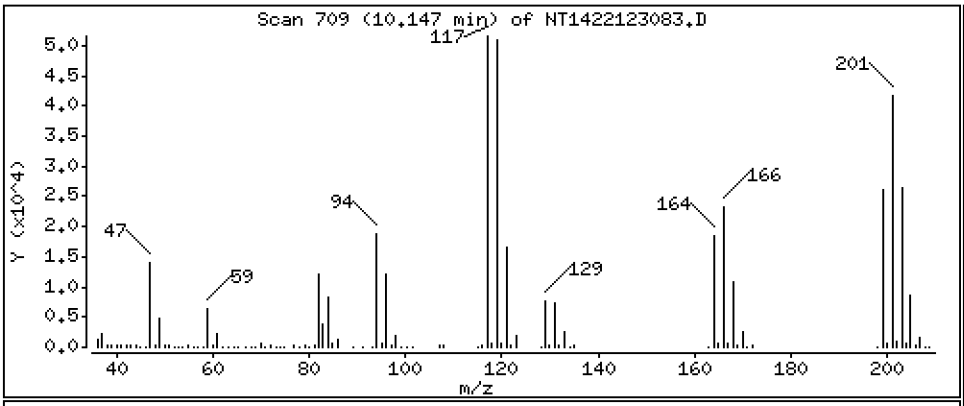
Operator: VTS

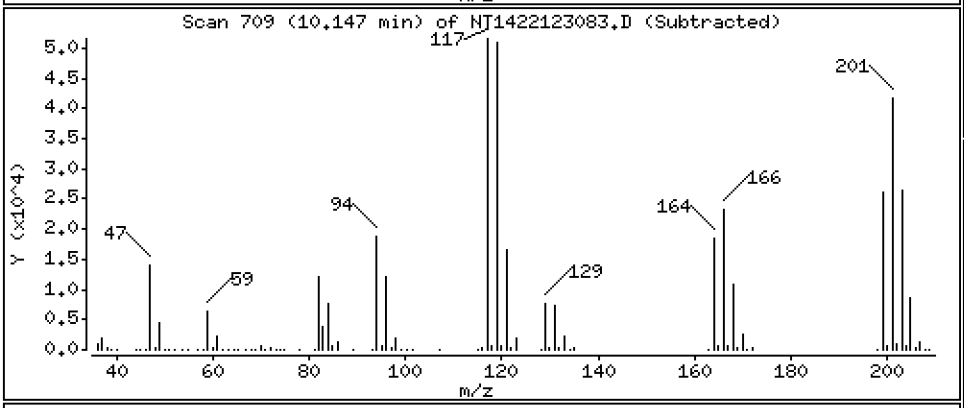
Column phase: ZB-5msi

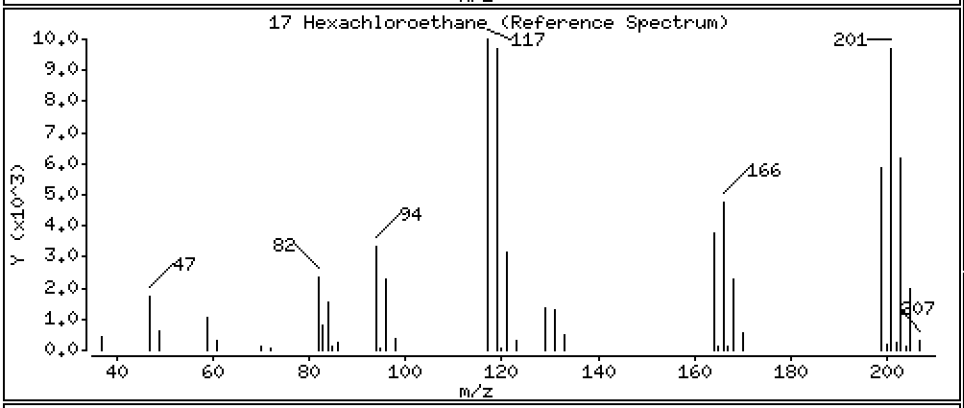
Column diameter: 0.25

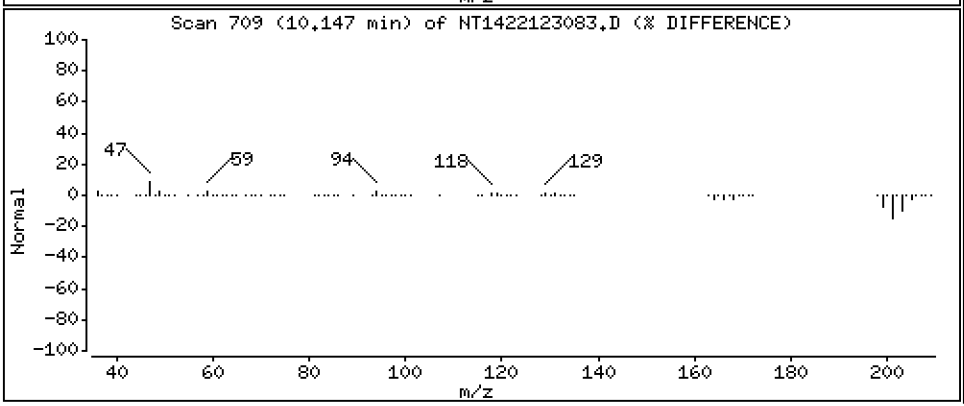
17 Hexachloroethane

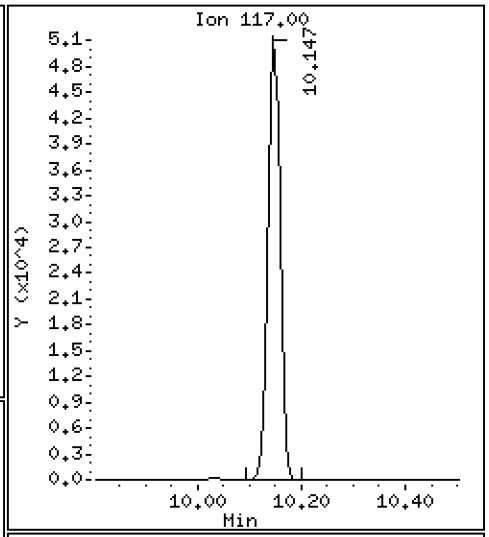
Concentration: 4.373 ug/mL

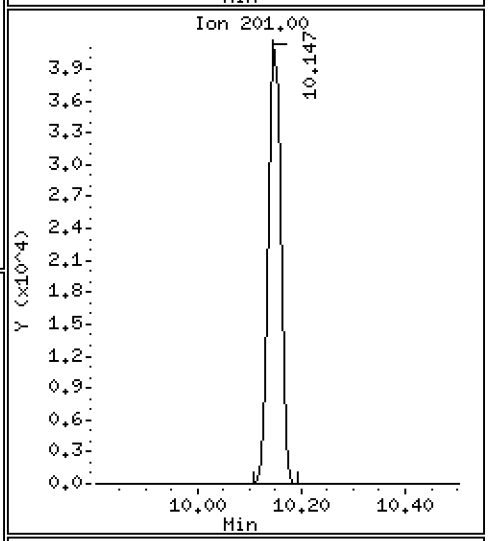


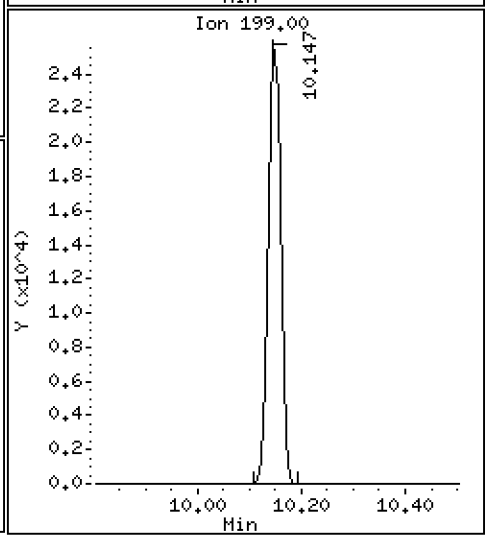












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

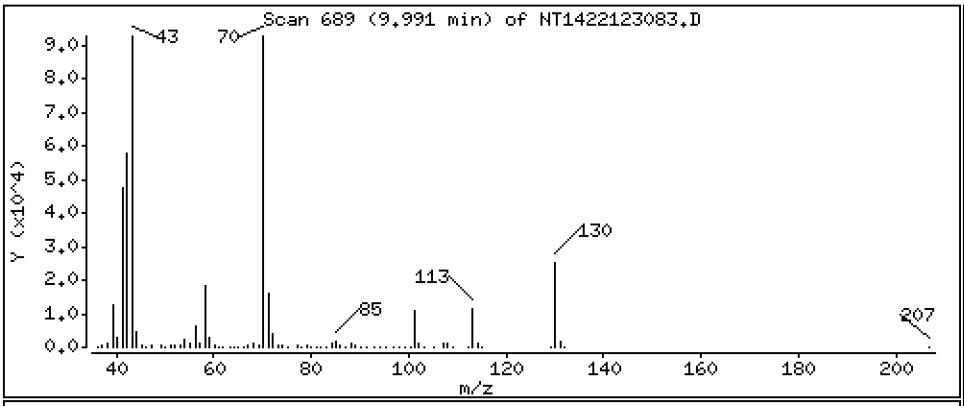
Operator: VTS

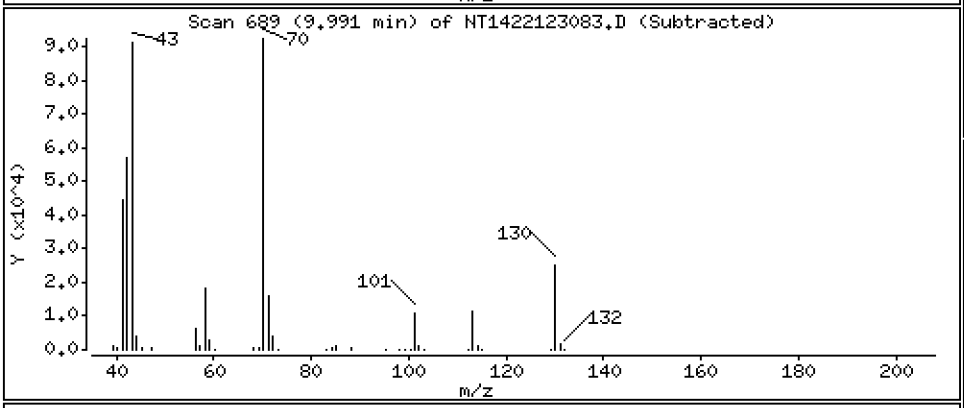
Column phase: ZB-5msi

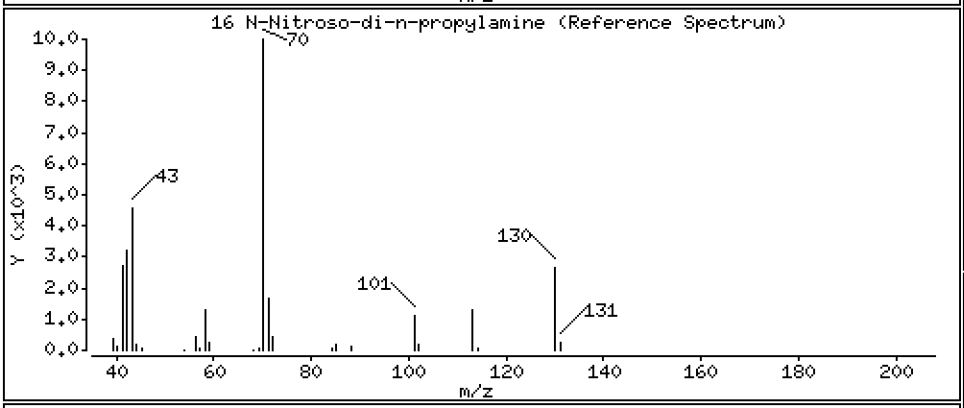
Column diameter: 0.25

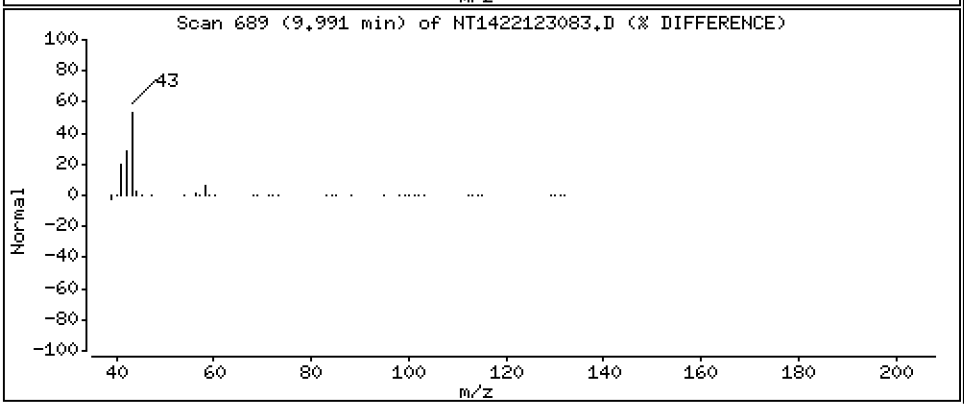
16 N-Nitroso-di-n-propylamine

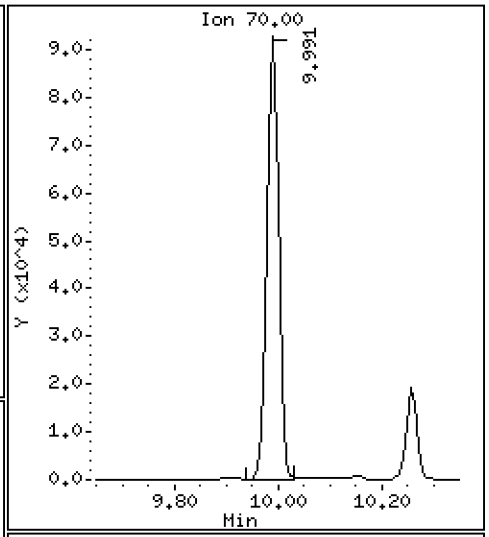
Concentration: 5.142 ug/mL

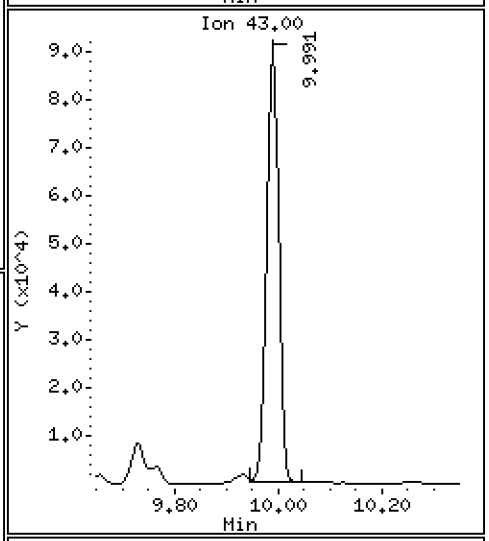


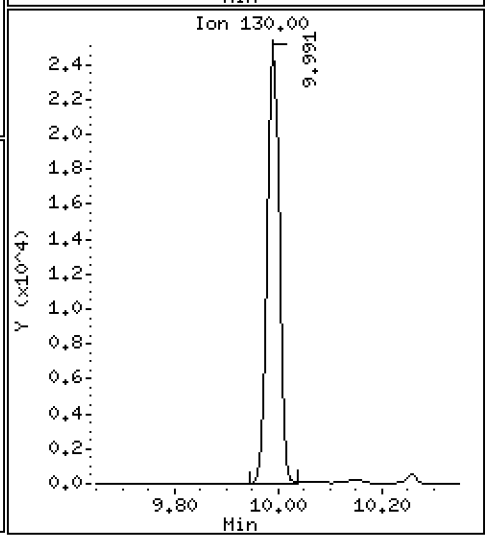












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

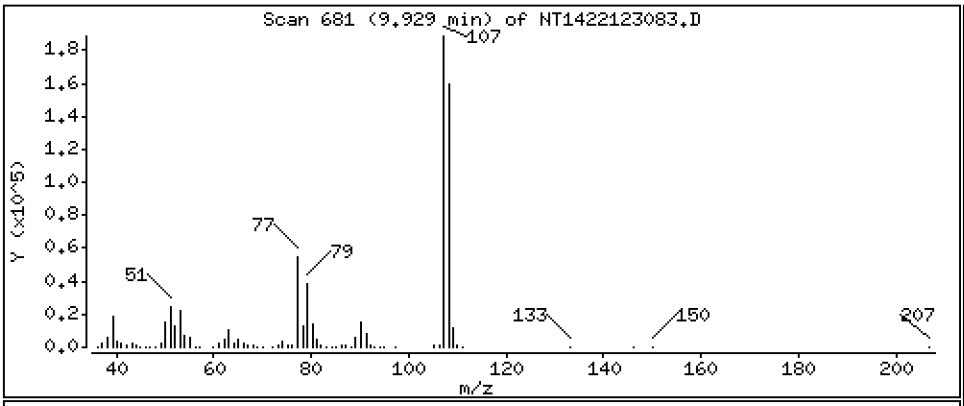
Operator: VTS

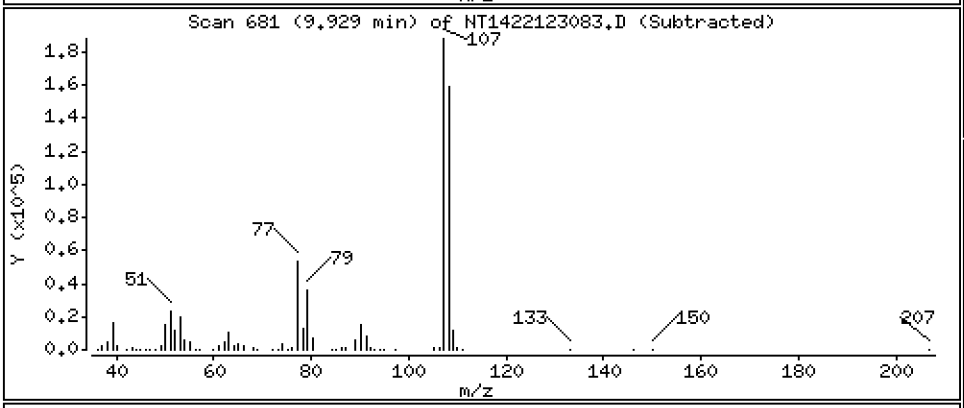
Column phase: ZB-5msi

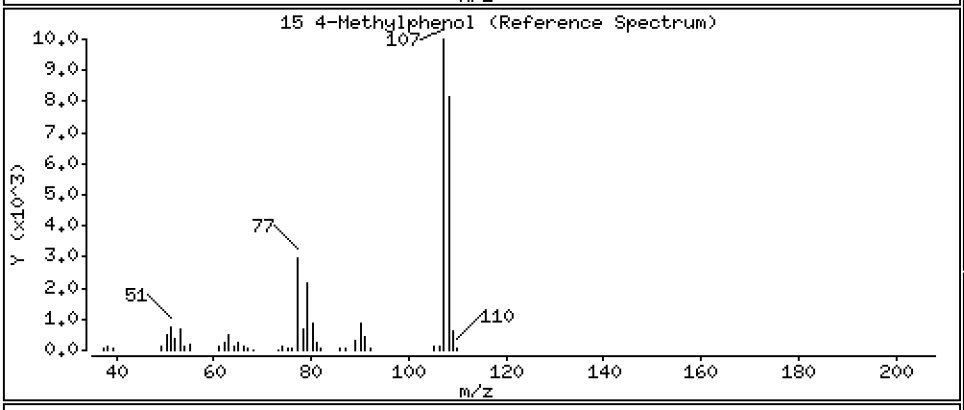
Column diameter: 0.25

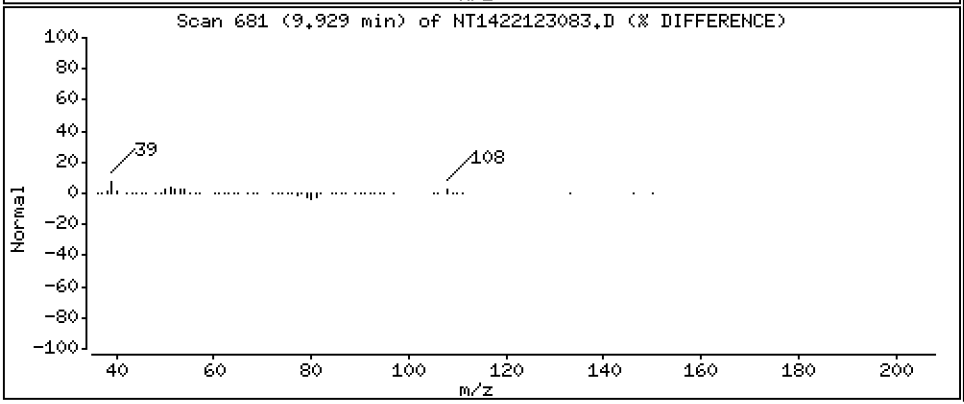
15 4-Methylphenol

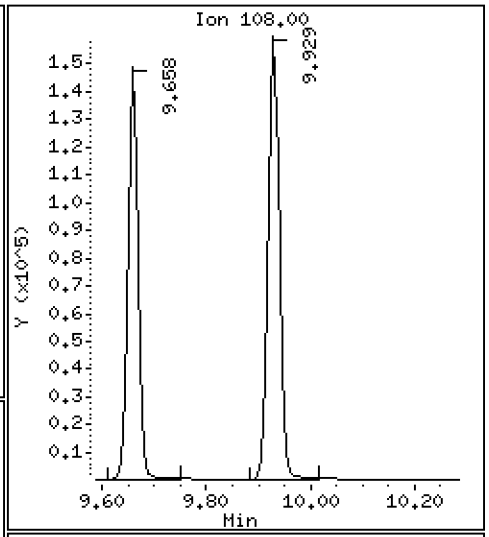
Concentration: 4.878 ug/mL

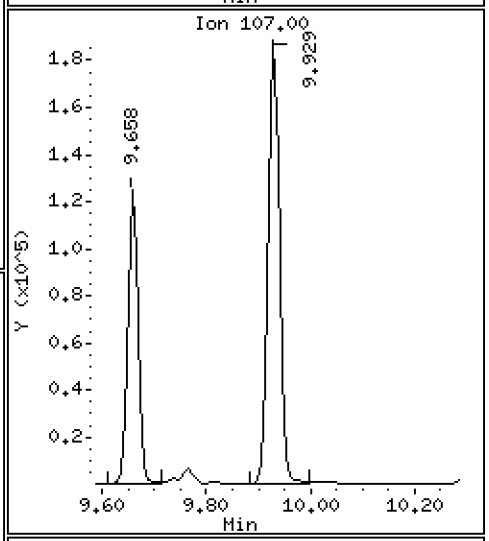


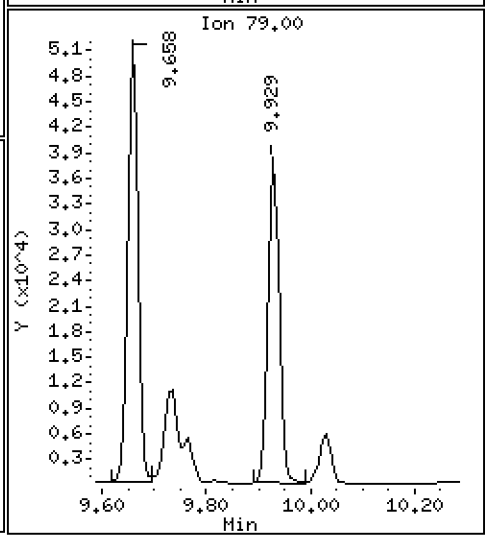












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

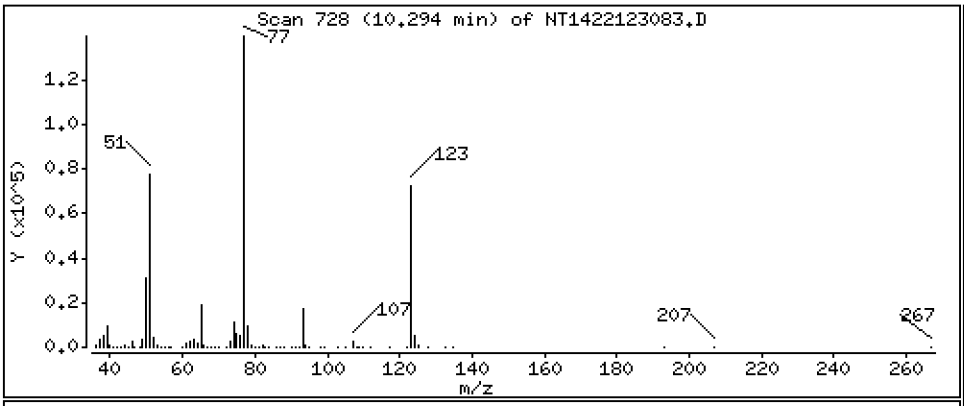
Operator: VTS

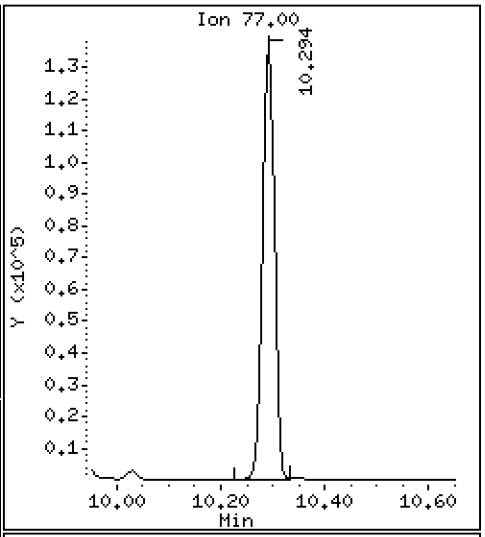
Column phase: ZB-5msi

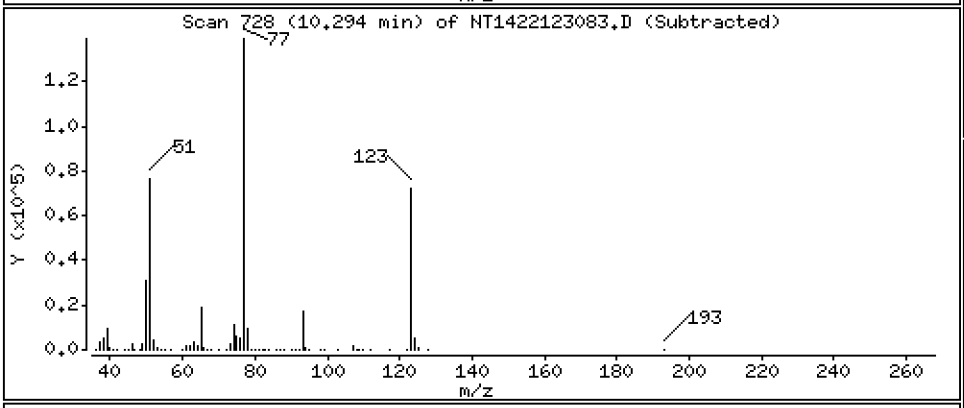
Column diameter: 0.25

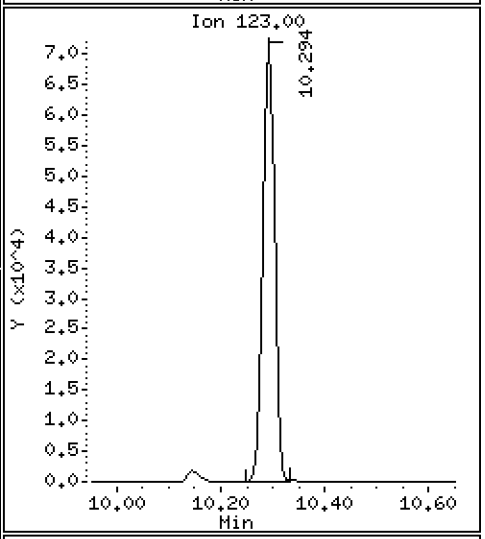
19 Nitrobenzene

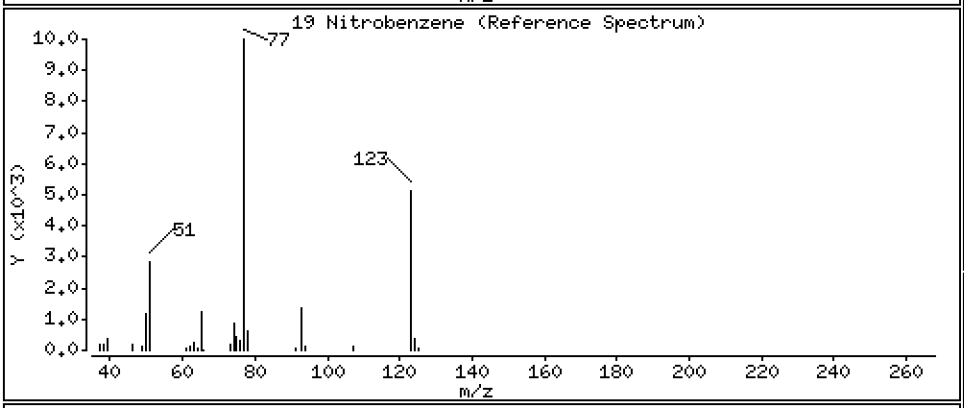
Concentration: 4.958 ug/mL

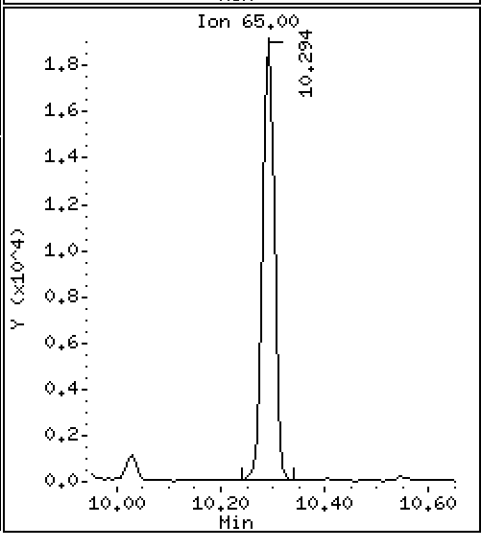


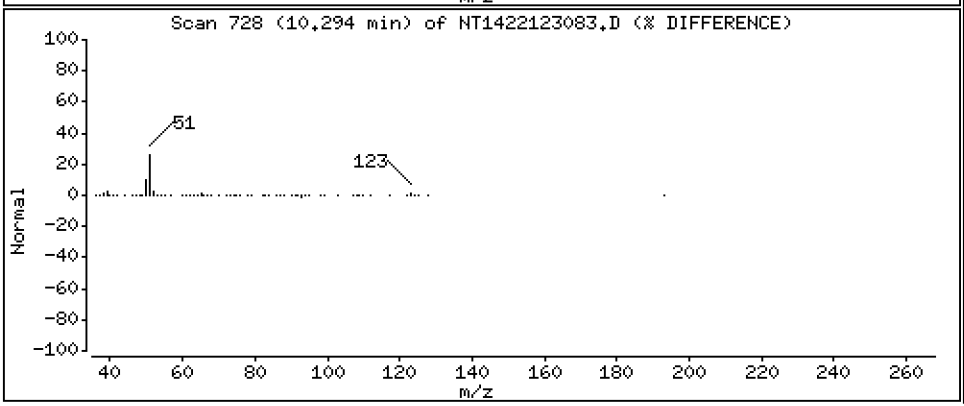












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

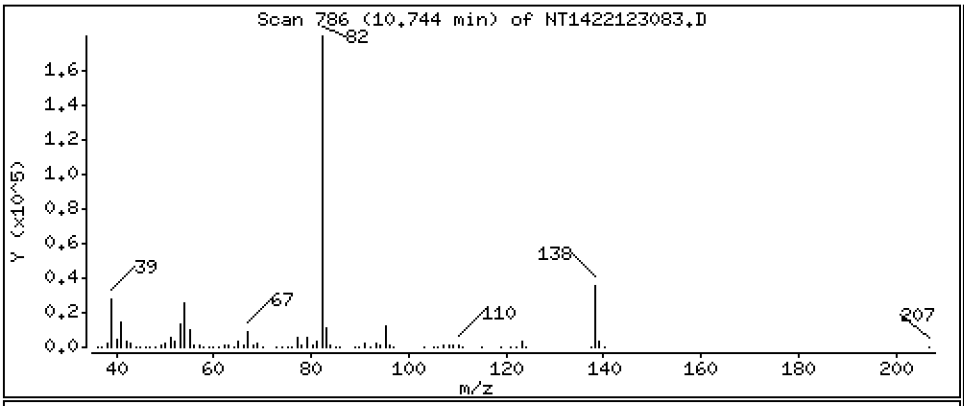
Operator: VTS

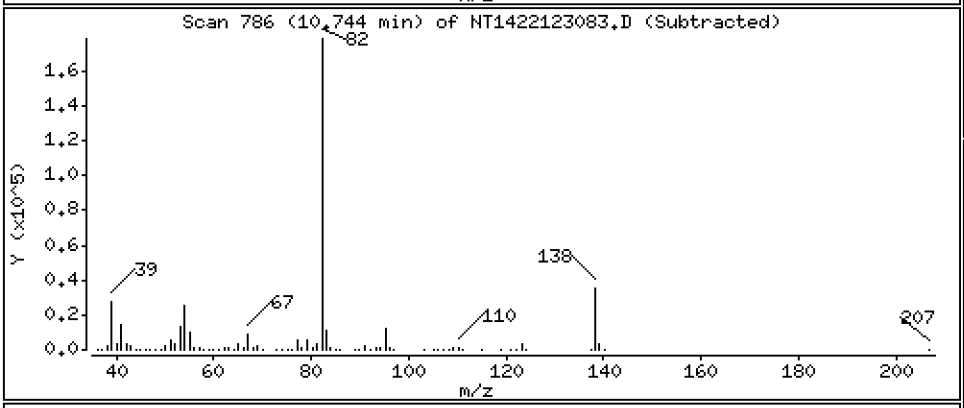
Column phase: ZB-5msi

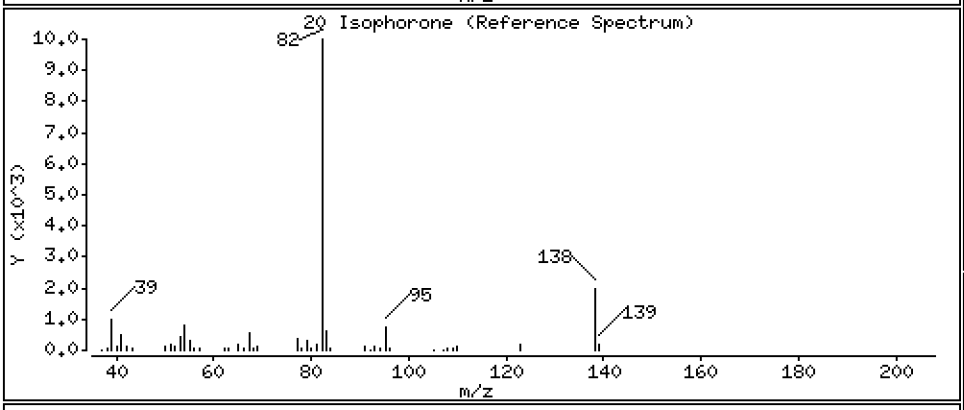
Column diameter: 0.25

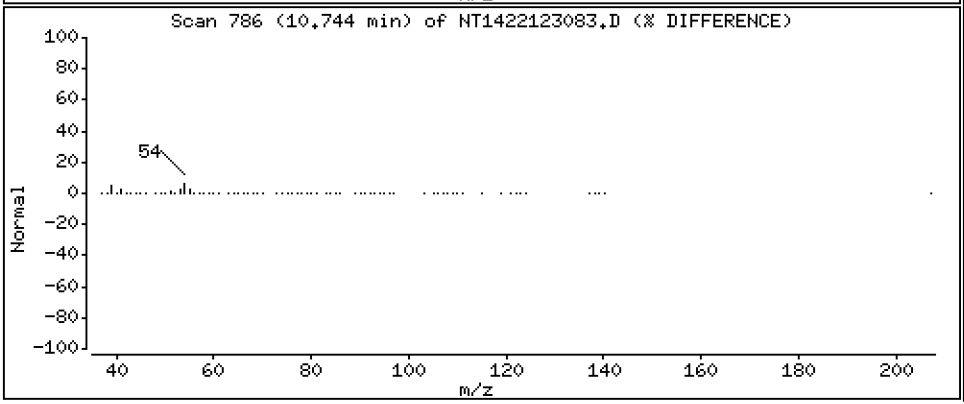
20 Isophorone

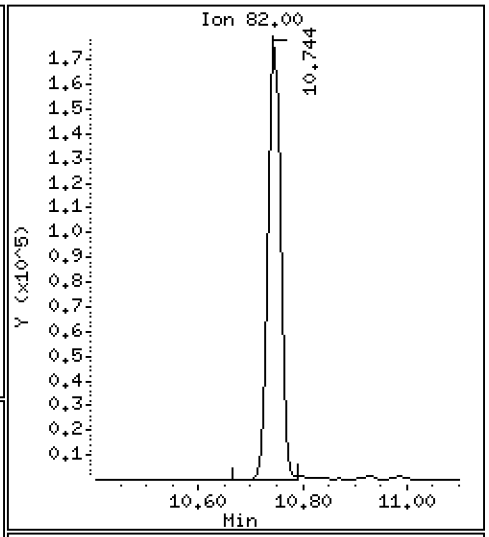
Concentration: 5.332 ug/mL

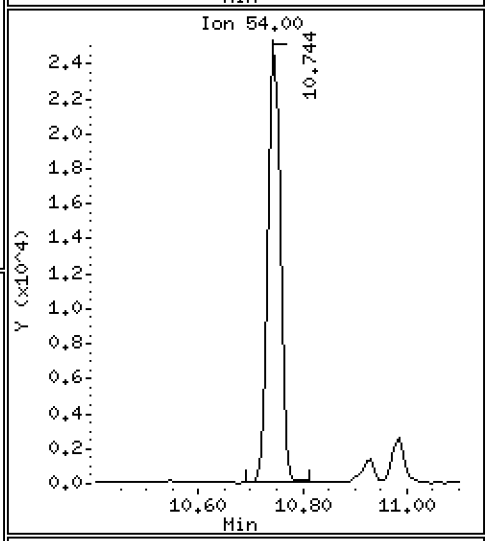


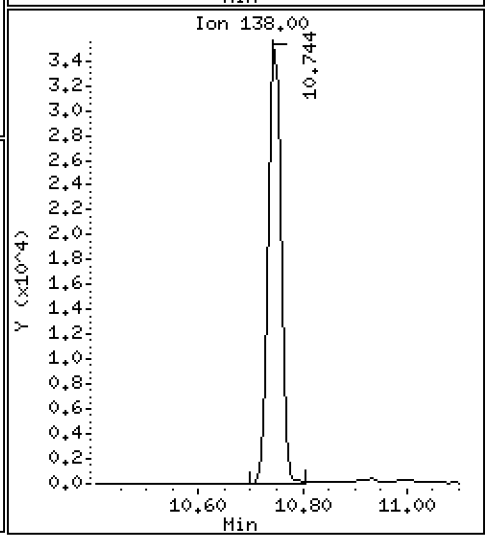












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

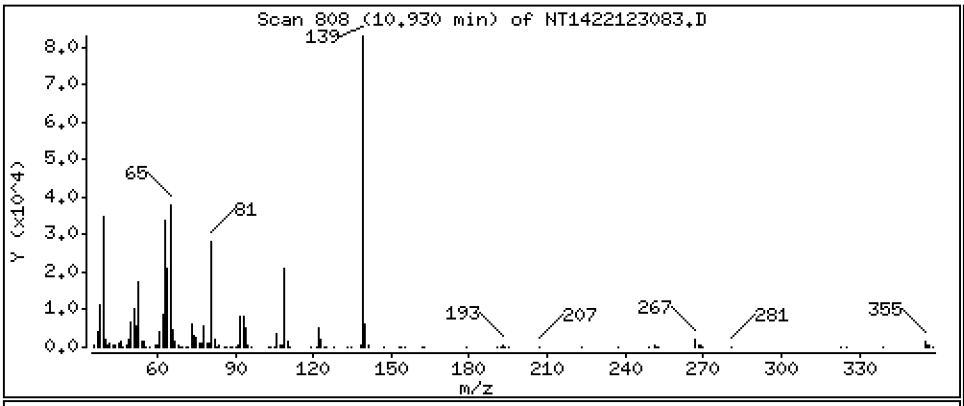
Operator: VTS

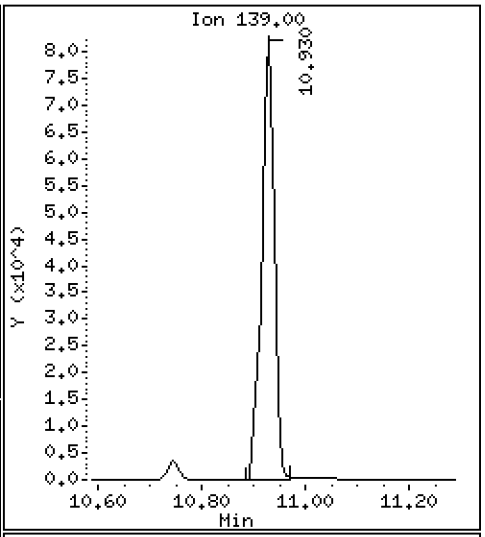
Column phase: ZB-5msi

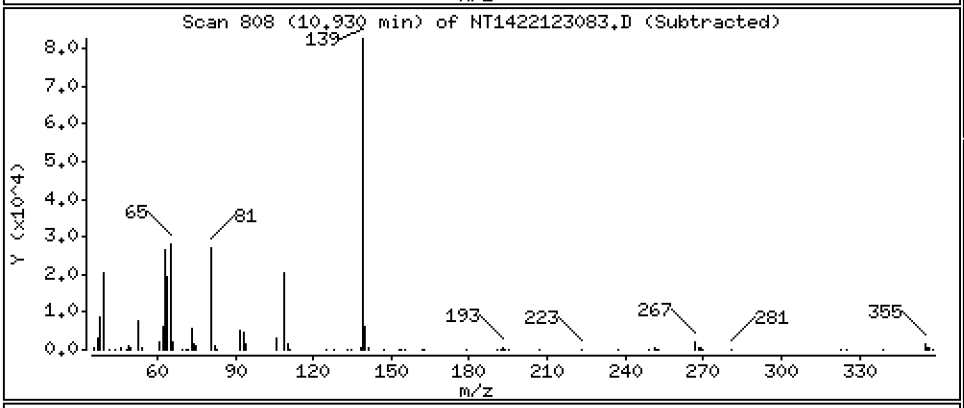
Column diameter: 0.25

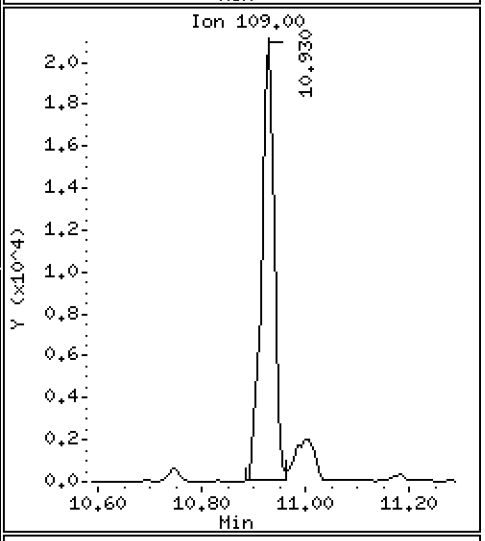
21 2-Nitrophenol

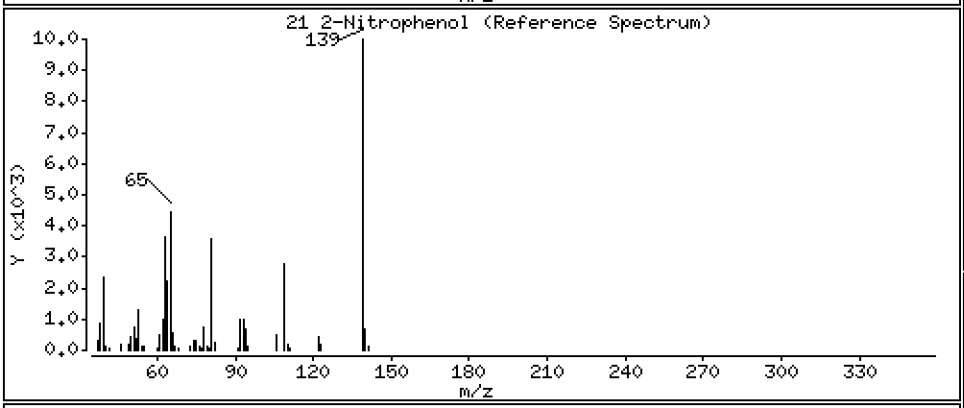
Concentration: 5.334 ug/mL

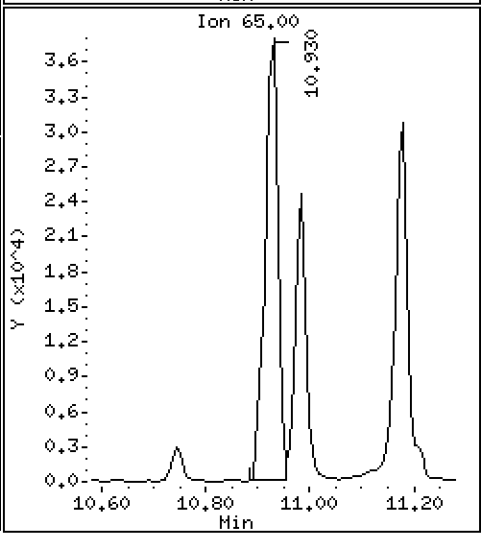


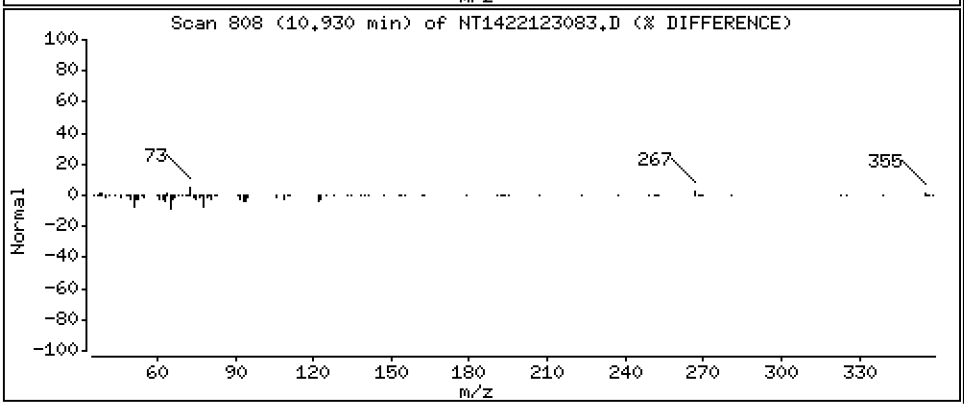












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

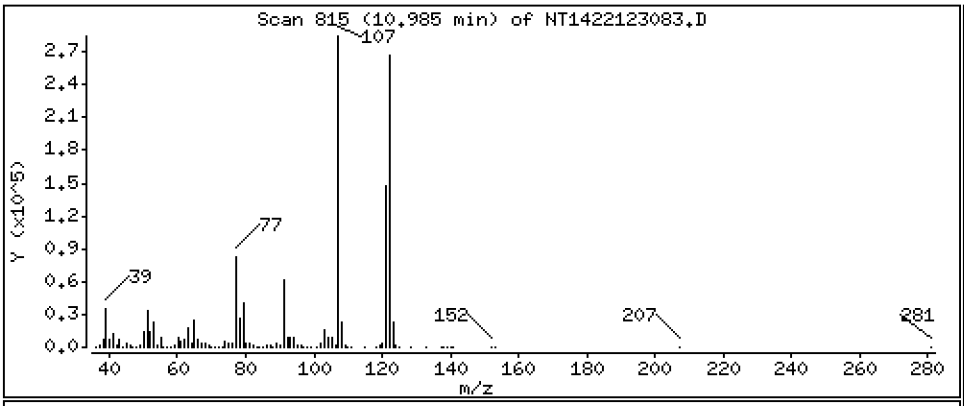
Operator: VTS

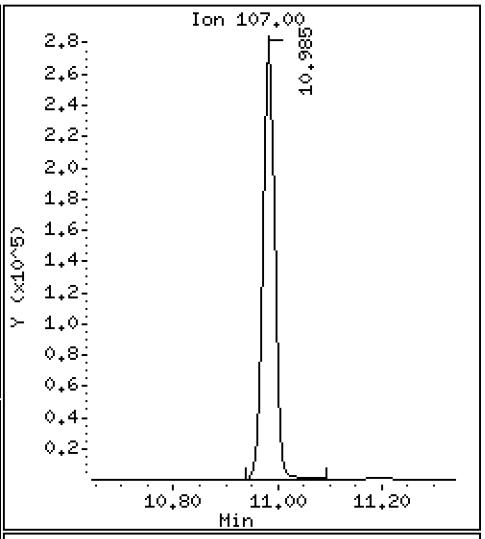
Column phase: ZB-5msi

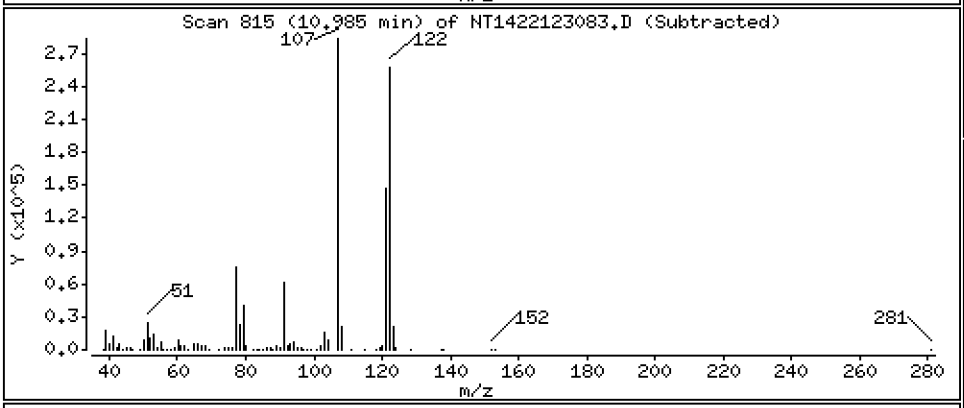
Column diameter: 0.25

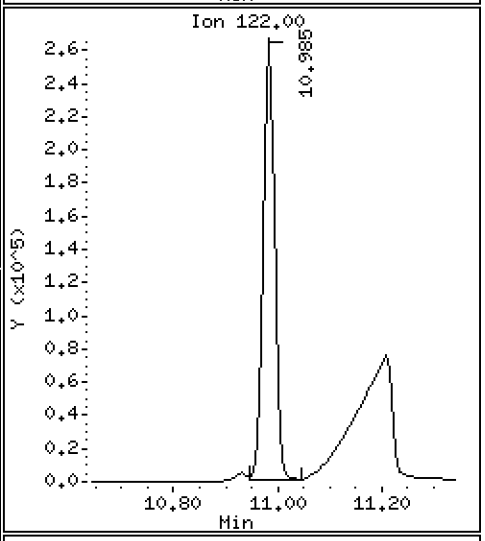
22 2,4-Dimethylphenol

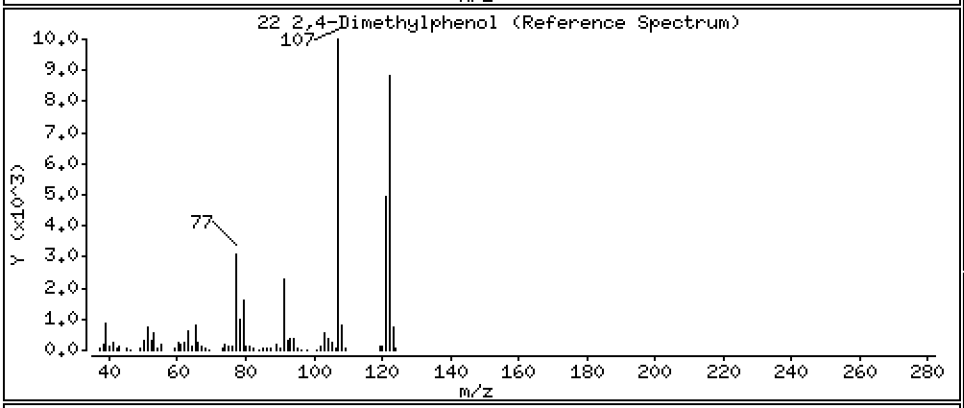
Concentration: 9.468 ug/mL

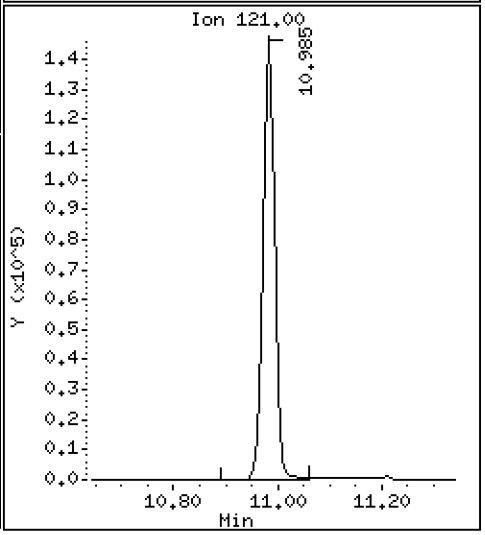


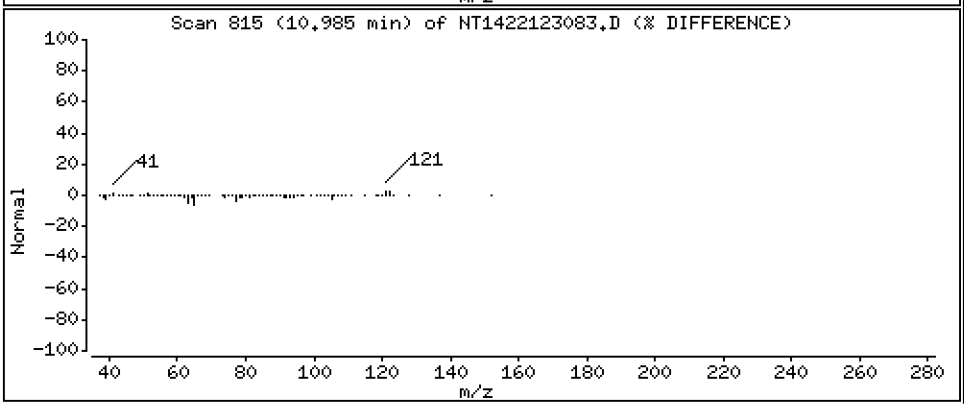












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

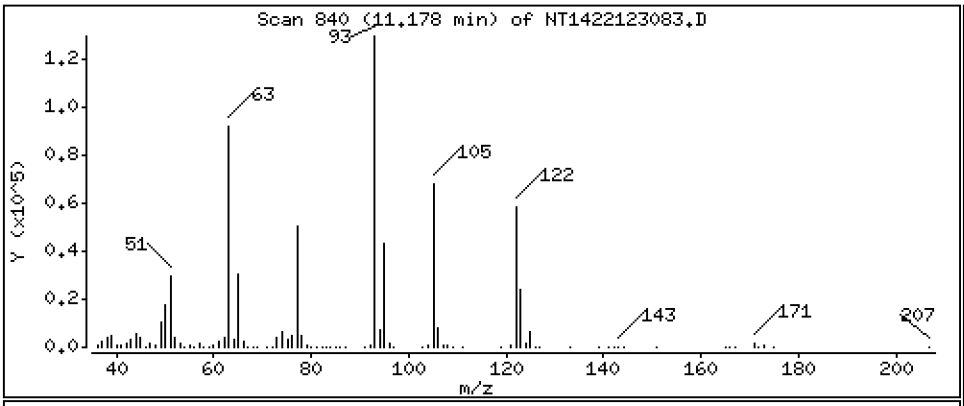
Operator: VTS

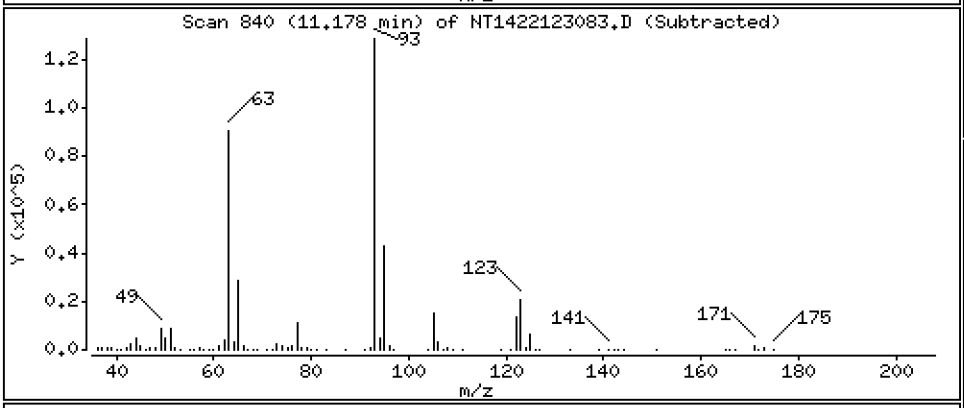
Column phase: ZB-5msi

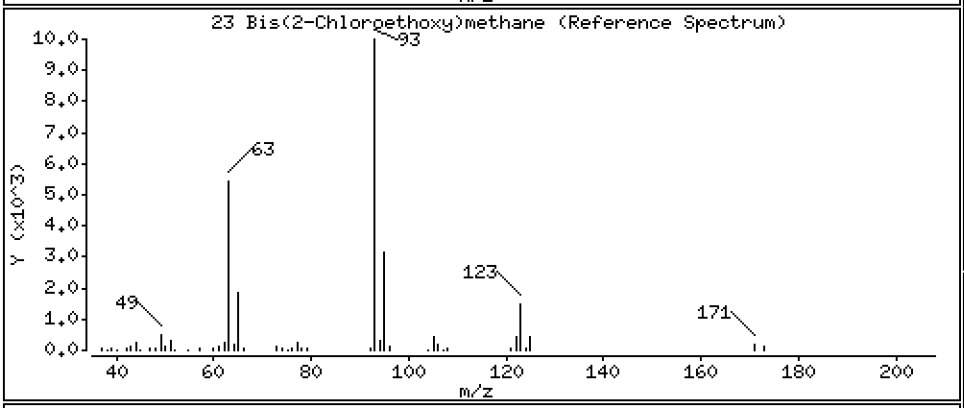
Column diameter: 0.25

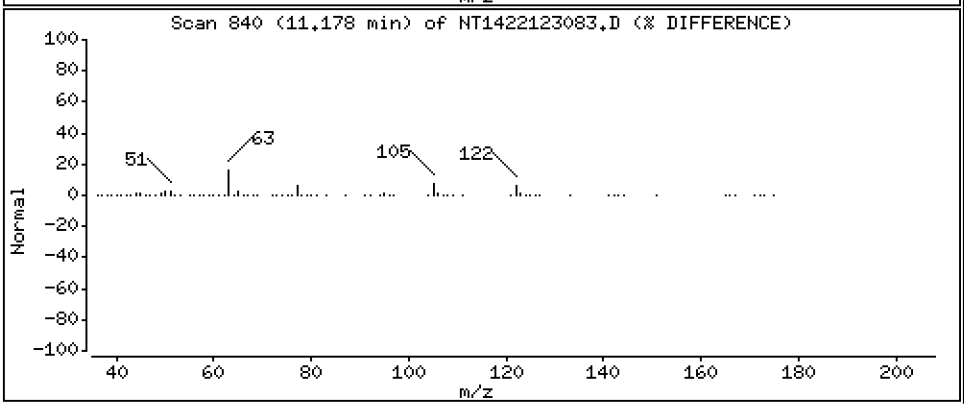
23 Bis(2-Chloroethoxy)methane

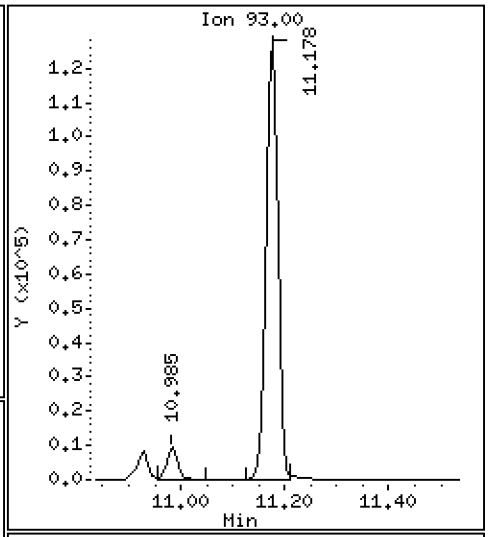
Concentration: 4.609 ug/mL

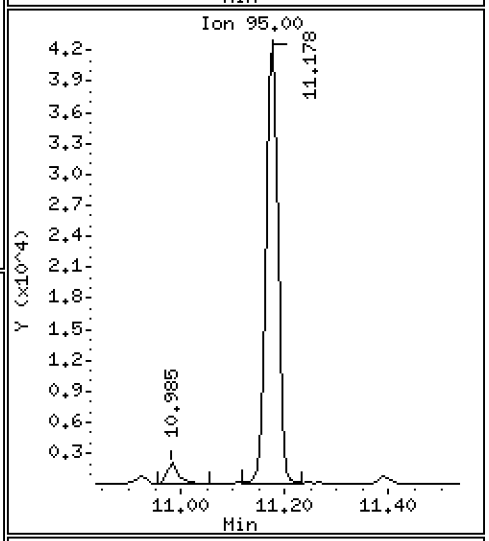


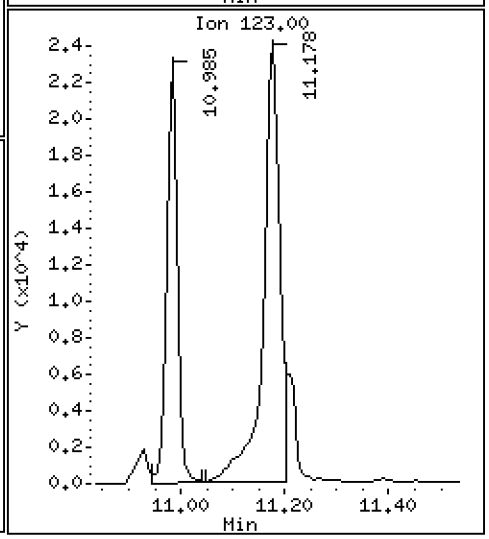












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

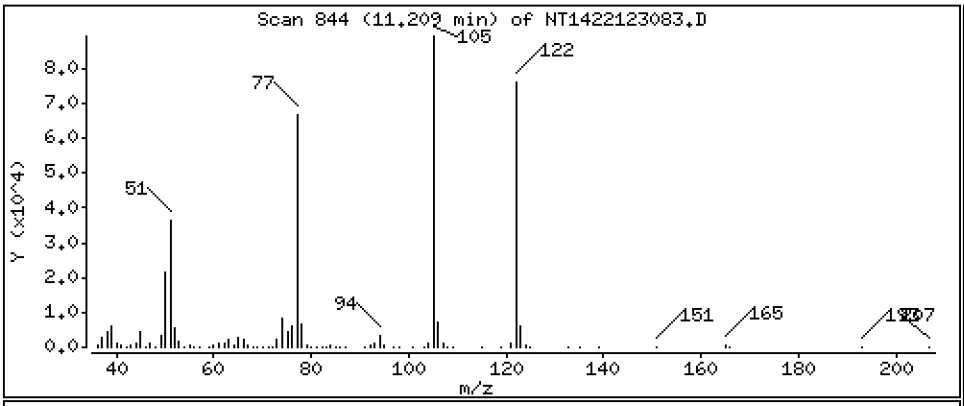
Operator: VTS

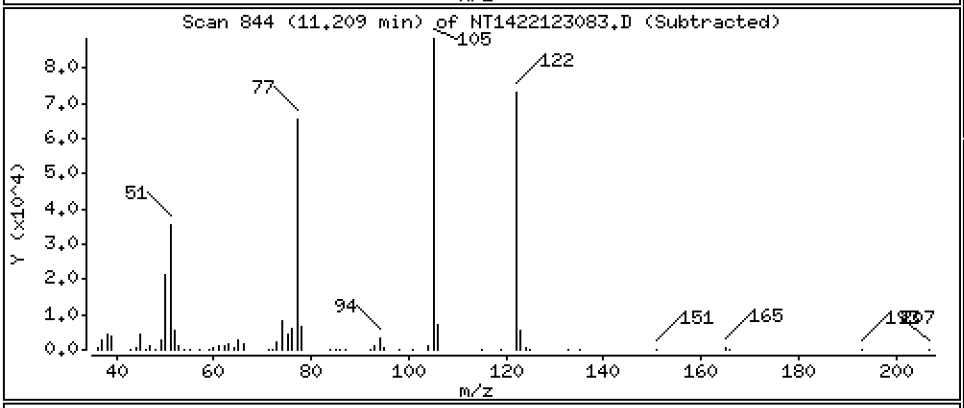
Column phase: ZB-5msi

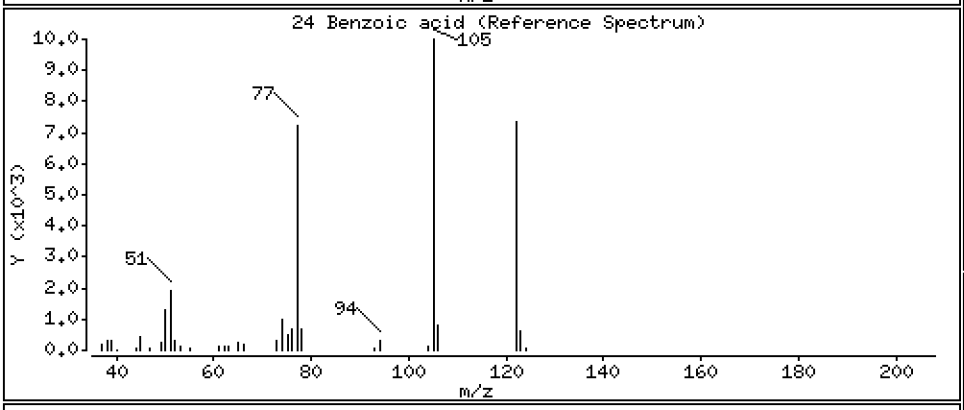
Column diameter: 0.25

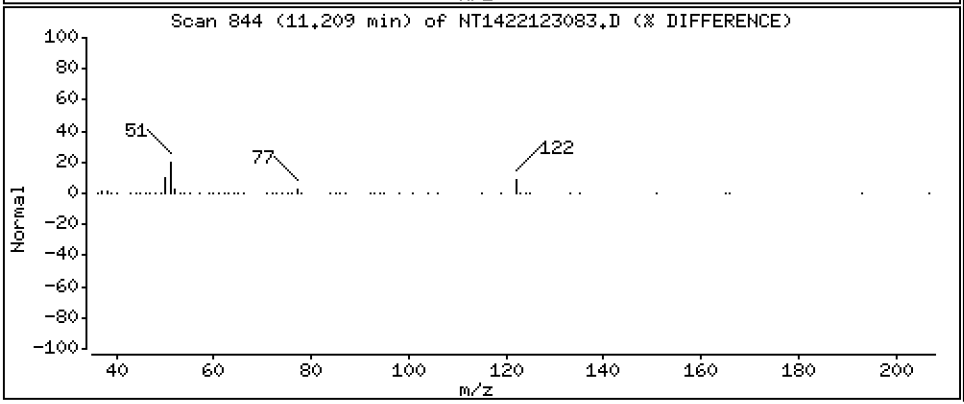
24 Benzoic acid

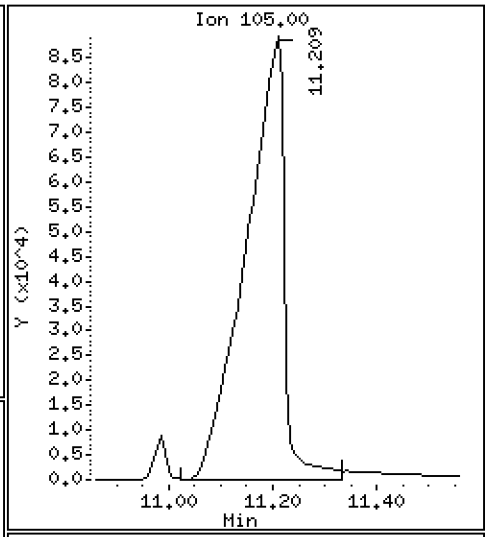
Concentration: 16.47 ug/mL

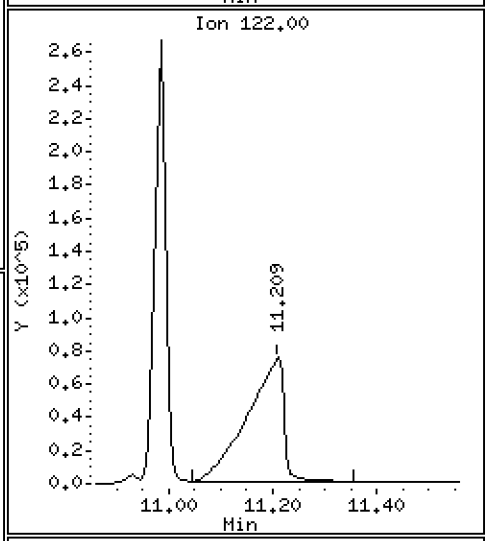


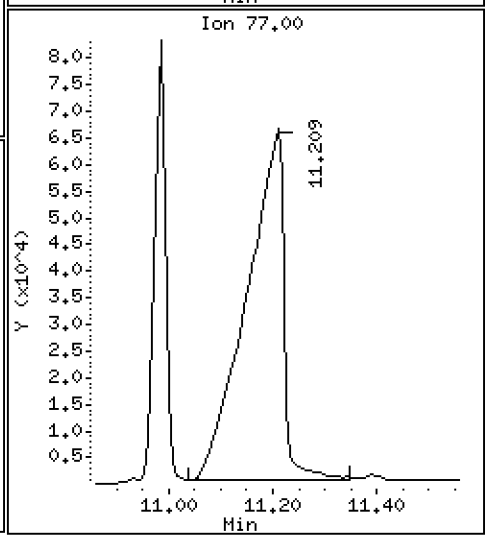












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

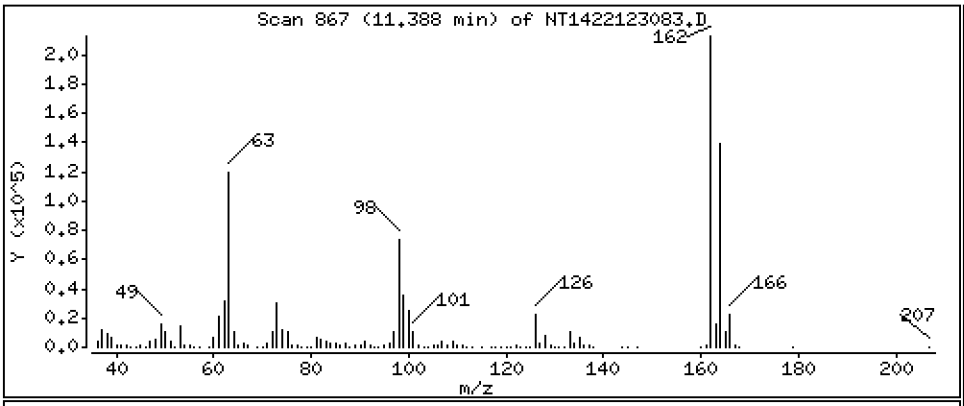
Operator: VTS

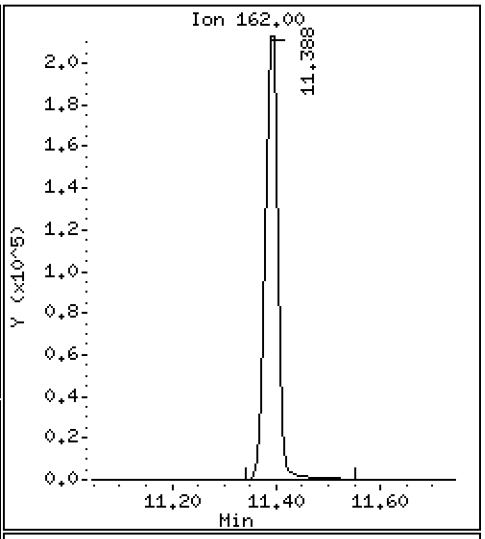
Column phase: ZB-5msi

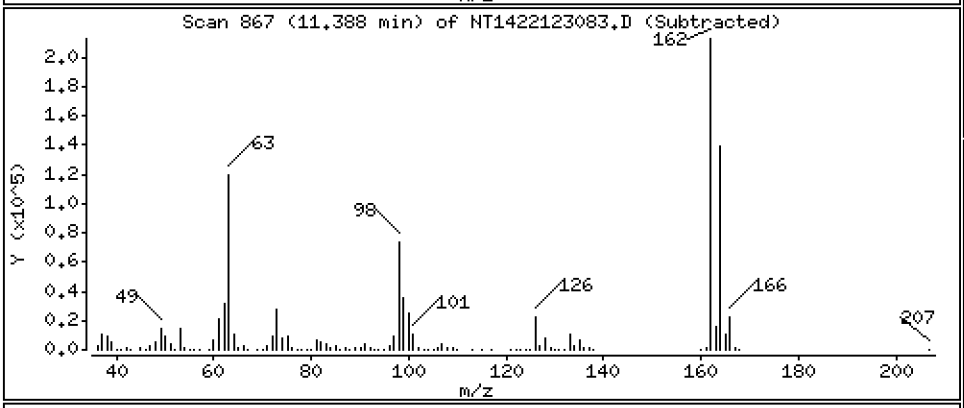
Column diameter: 0.25

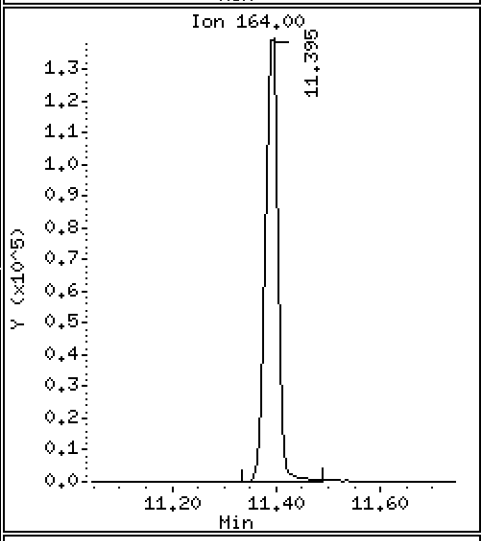
25 2,4-Dichlorophenol

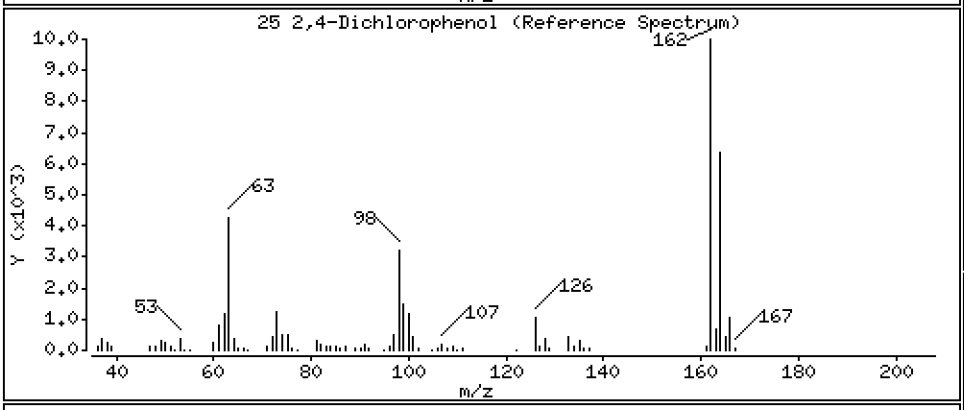
Concentration: 10.21 ug/mL

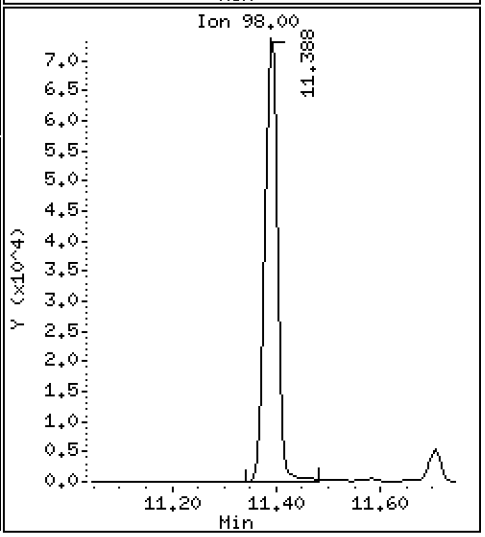


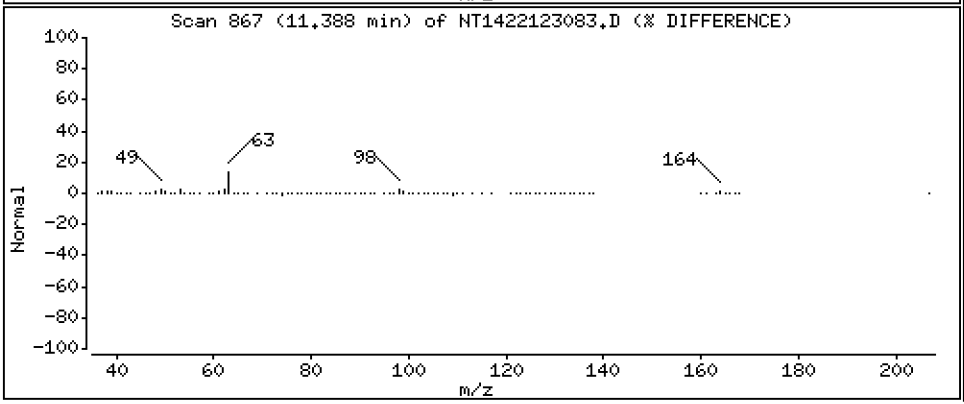












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

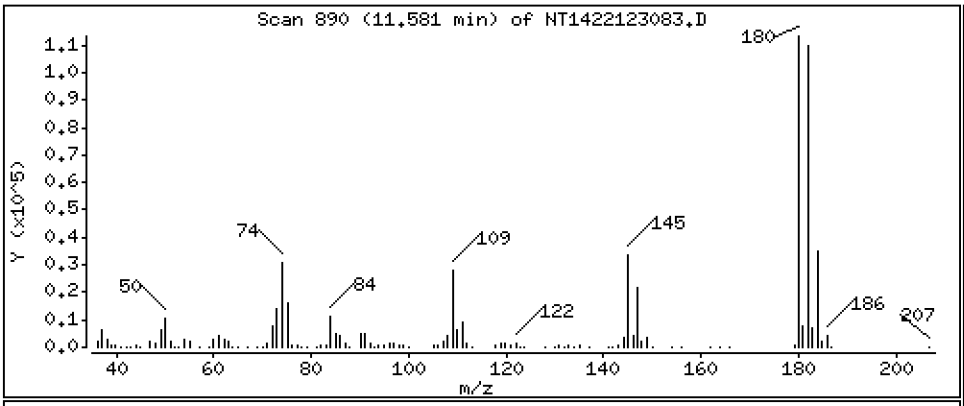
Operator: VTS

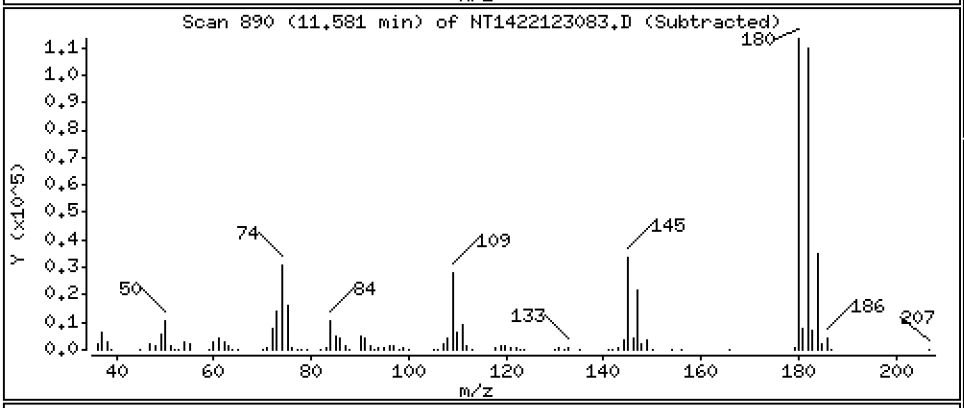
Column phase: ZB-5msi

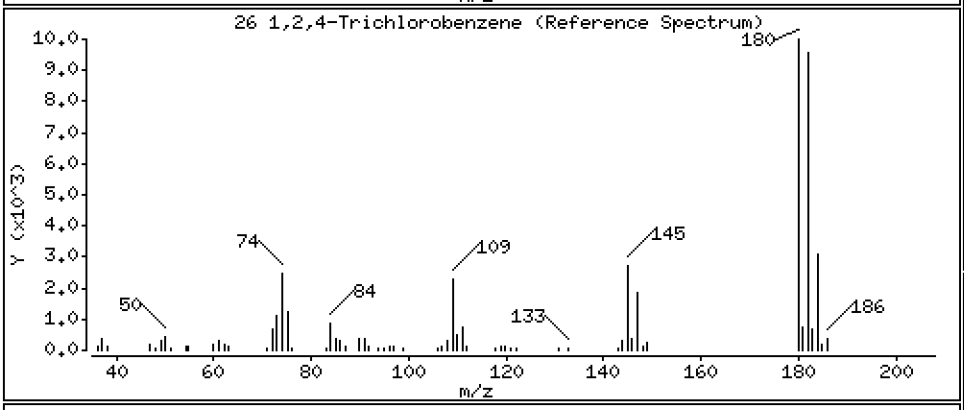
Column diameter: 0.25

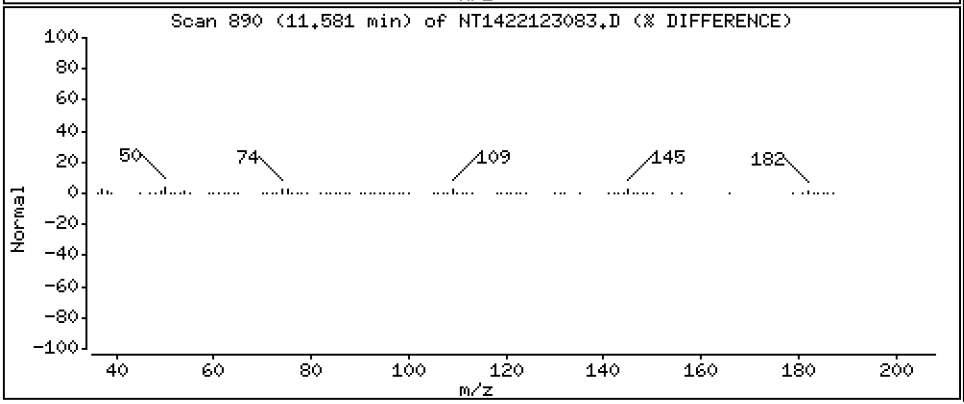
26 1,2,4-Trichlorobenzene

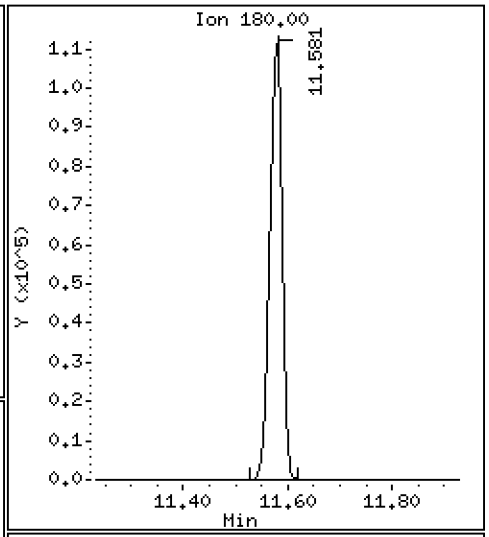
Concentration: 4.444 ug/mL

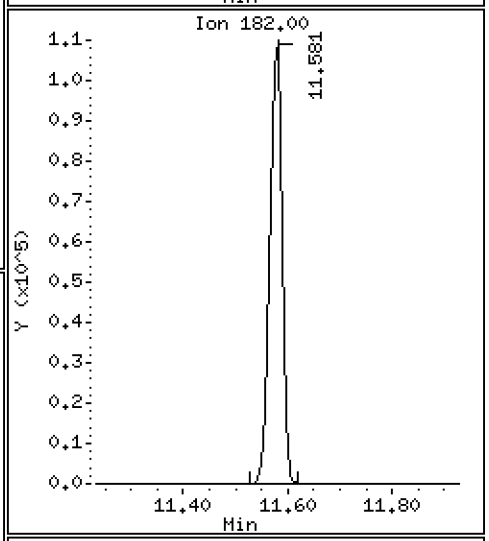


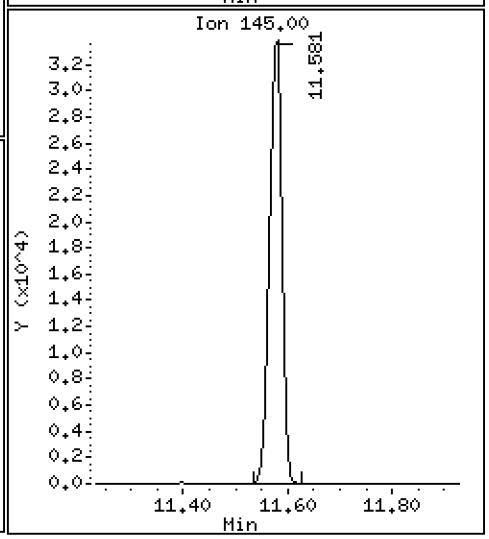












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

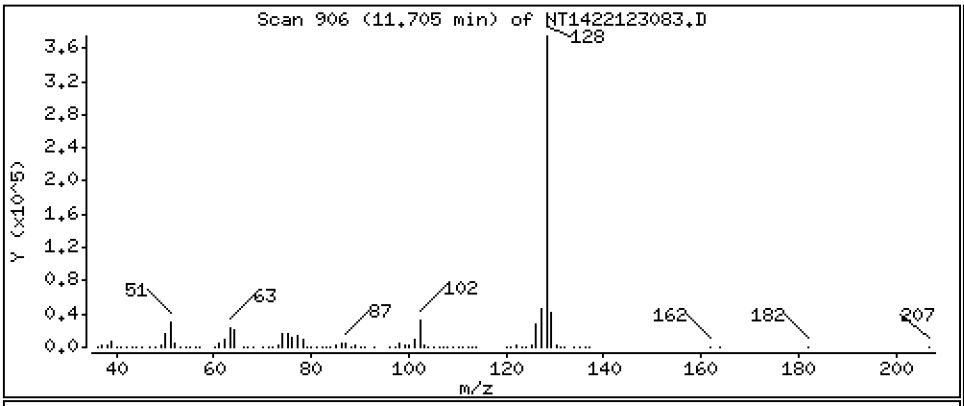
Operator: VTS

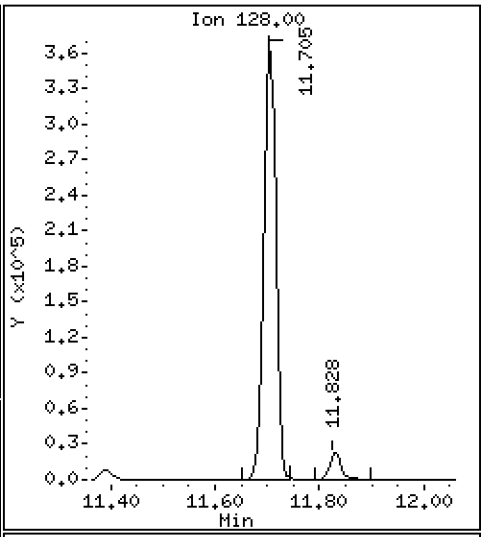
Column phase: ZB-5msi

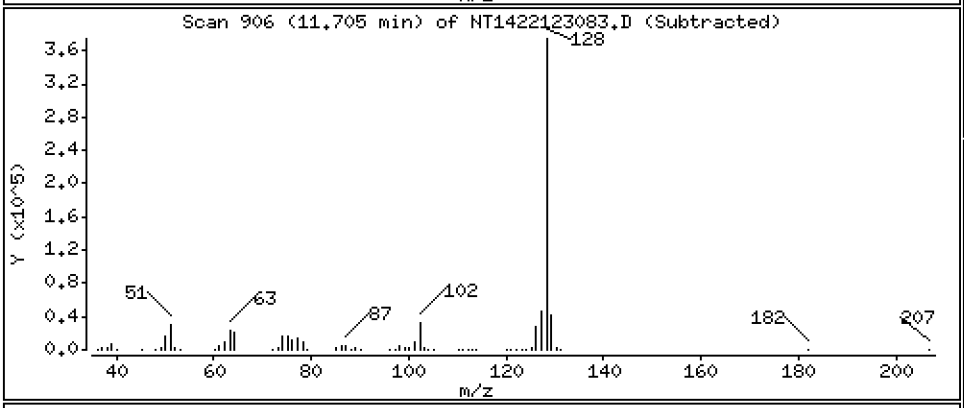
Column diameter: 0.25

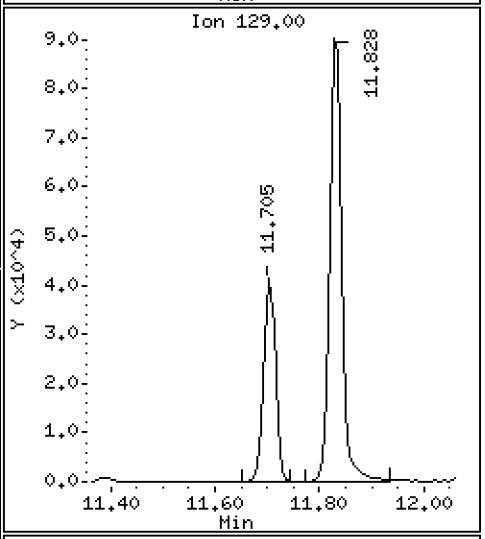
28 Naphthalene

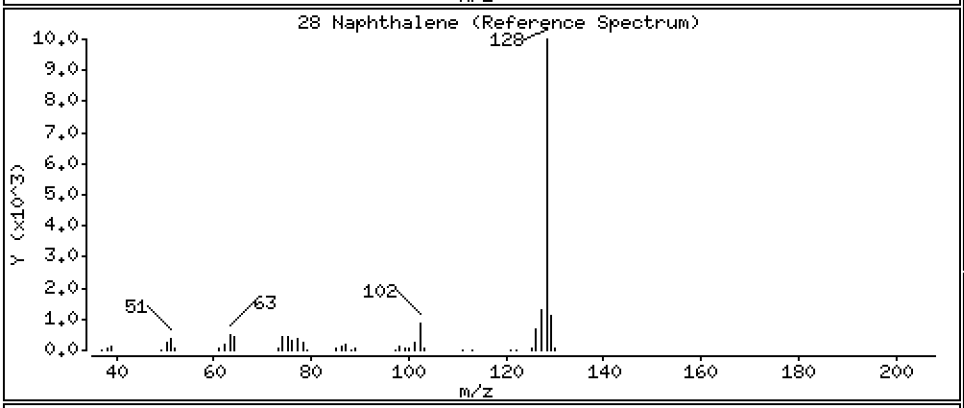
Concentration: 4.523 ug/mL

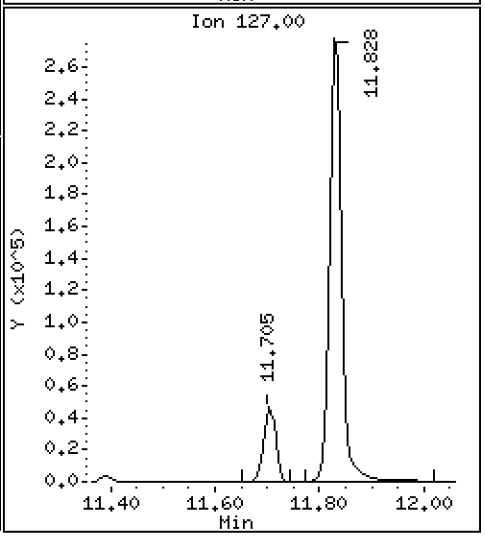


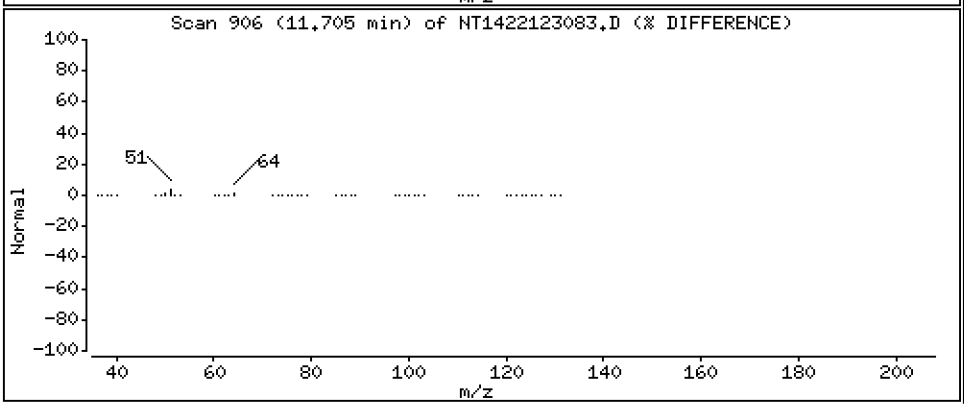












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

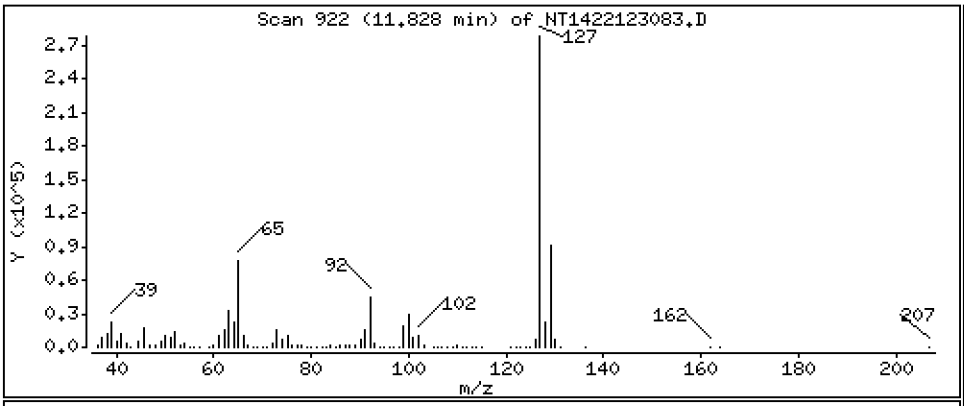
Operator: VTS

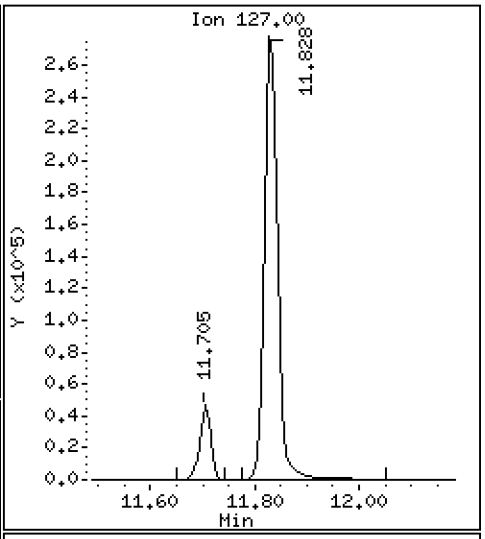
Column phase: ZB-5msi

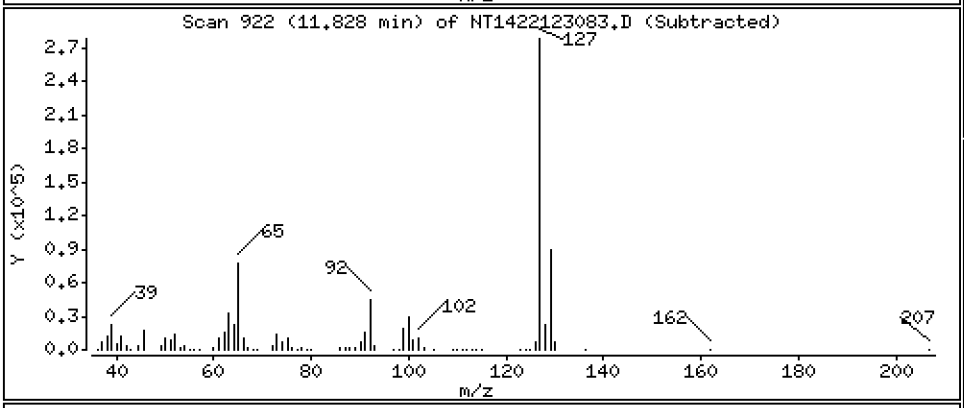
Column diameter: 0.25

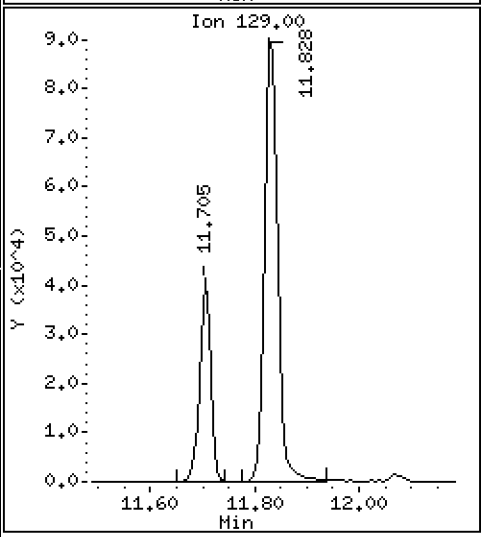
29 4-Chloroaniline

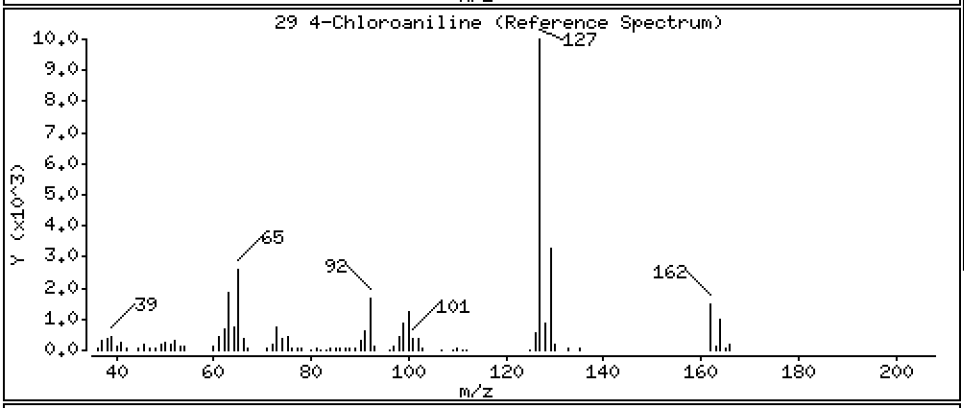
Concentration: 9.877 ug/mL

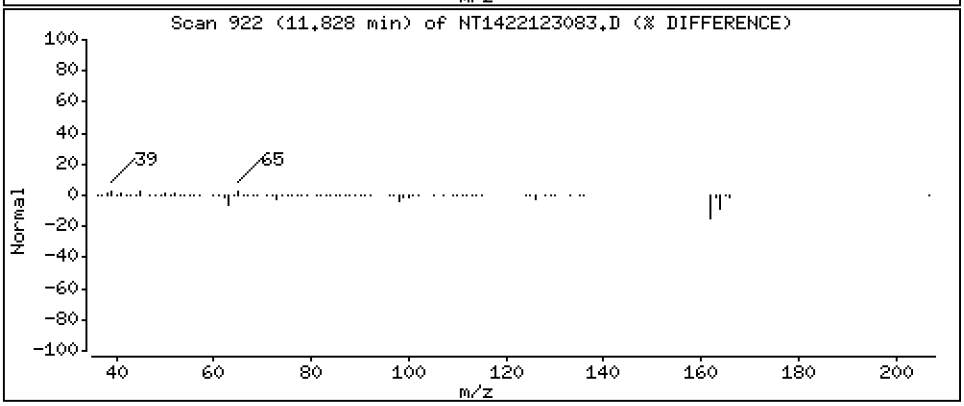












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

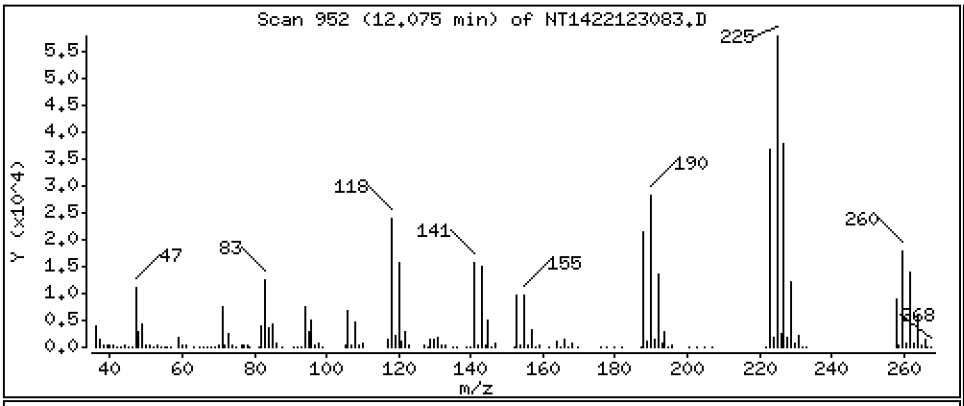
Operator: VTS

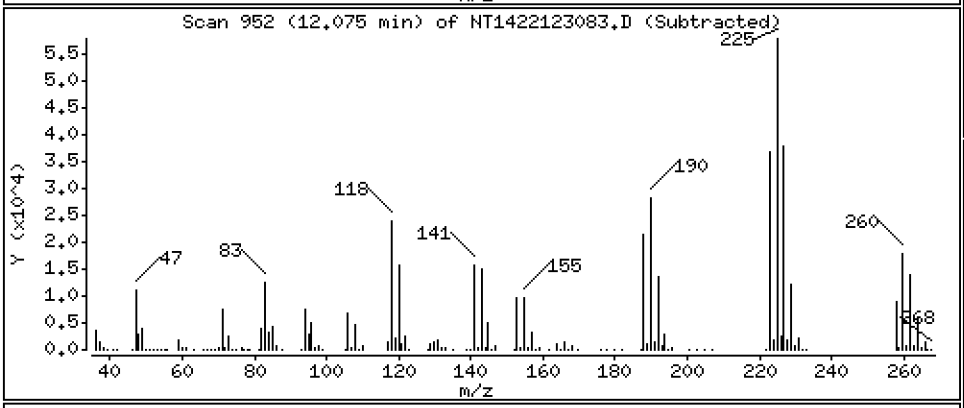
Column phase: ZB-5msi

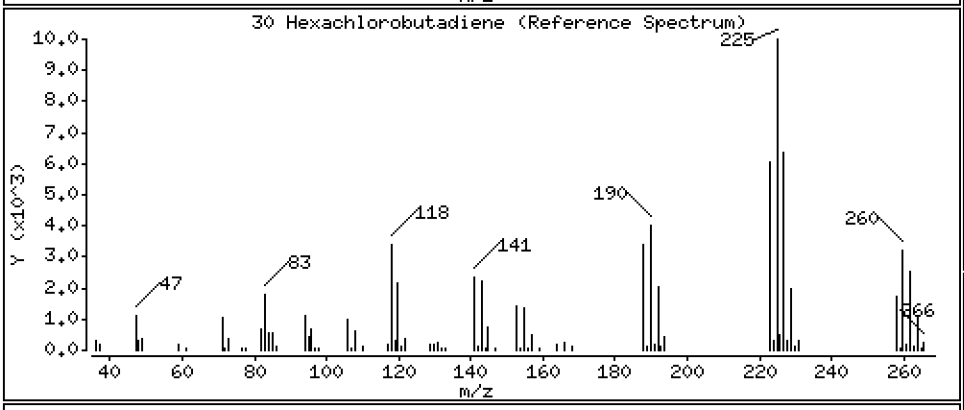
Column diameter: 0.25

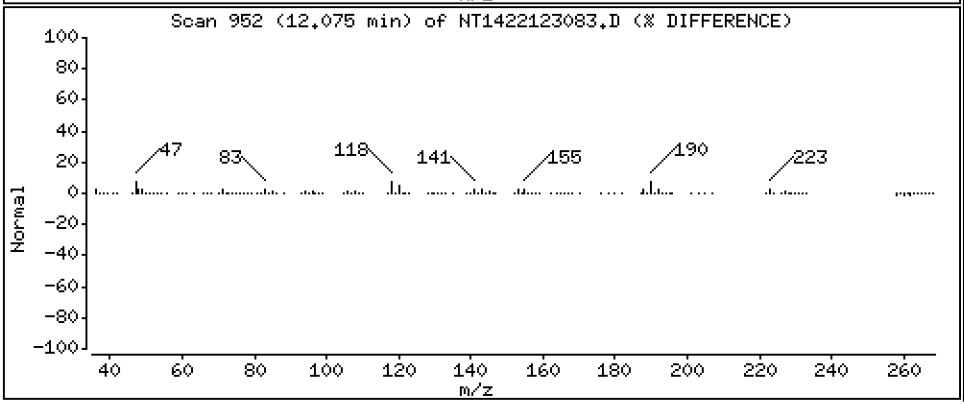
30 Hexachlorobutadiene

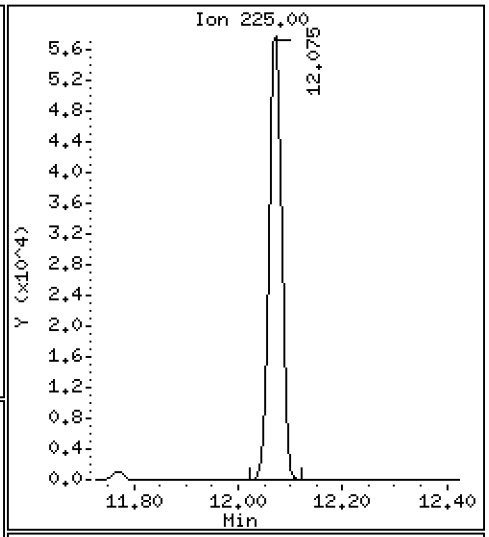
Concentration: 4.698 ug/mL

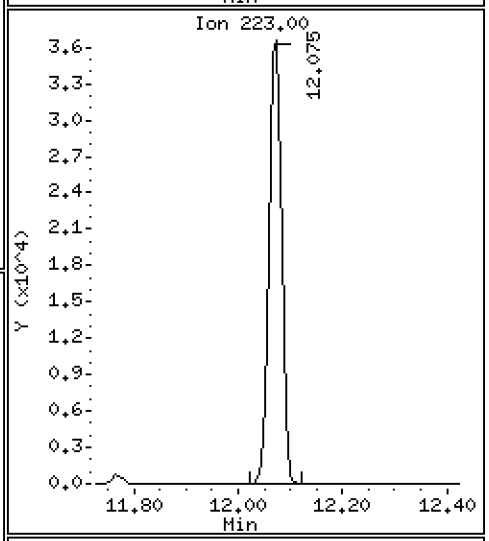


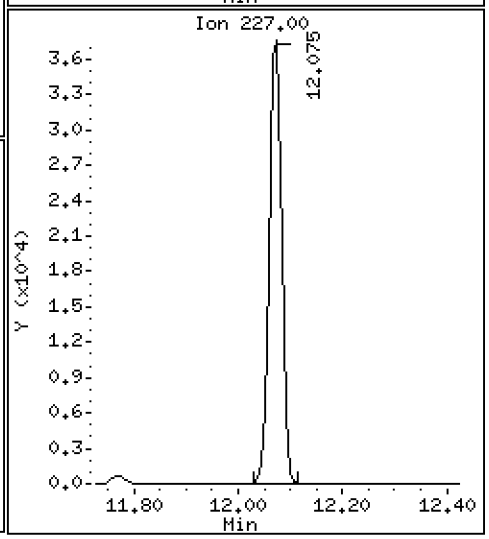












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

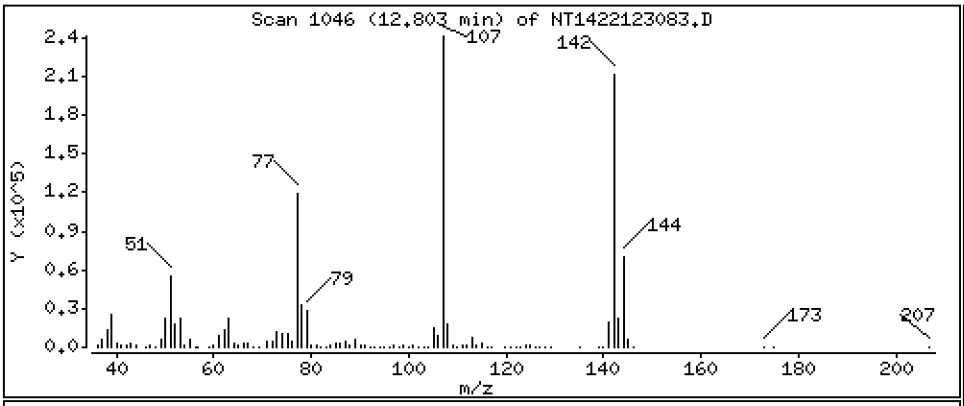
Operator: VTS

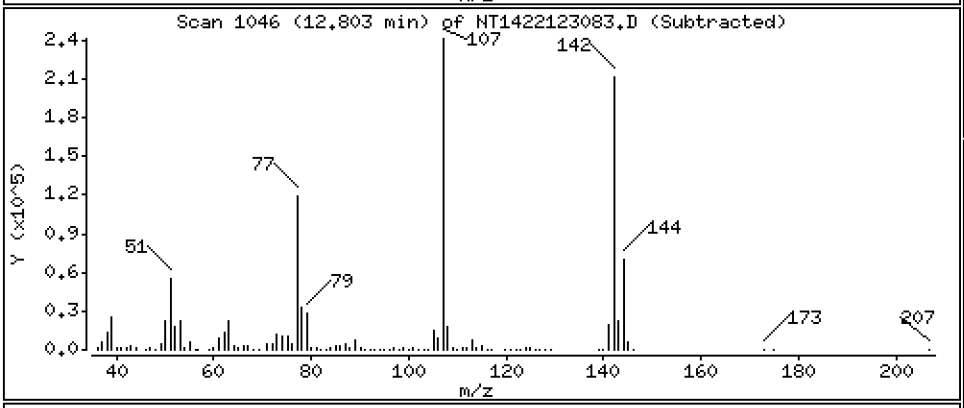
Column phase: ZB-5msi

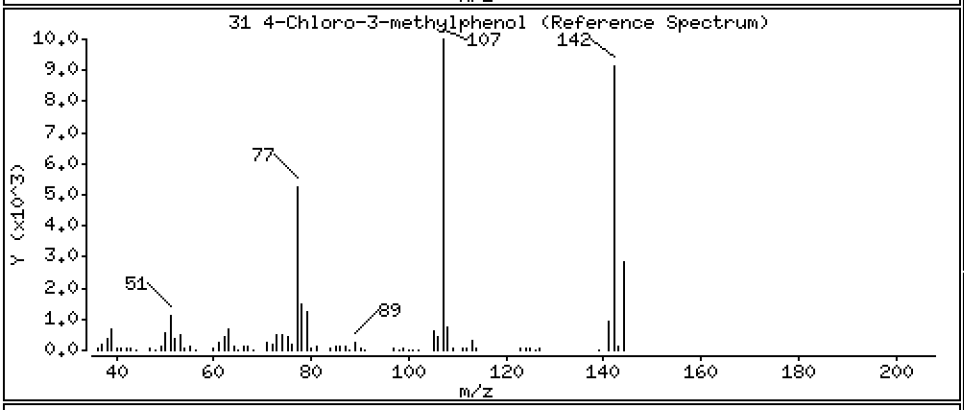
Column diameter: 0.25

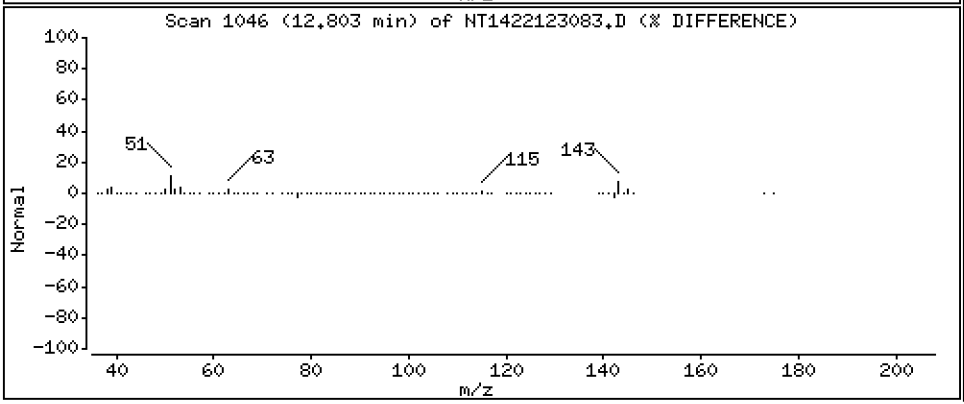
31 4-Chloro-3-methylphenol

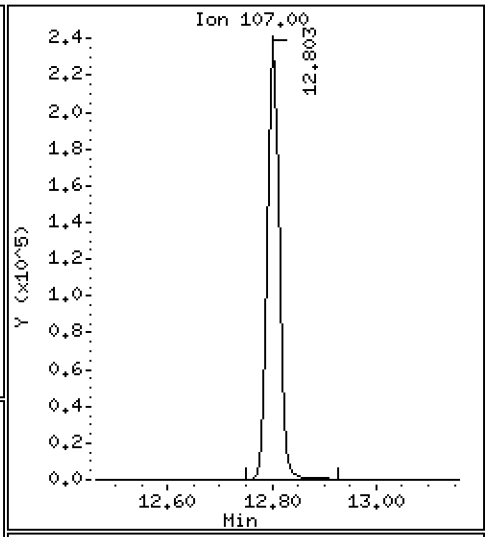
Concentration: 10.33 ug/mL

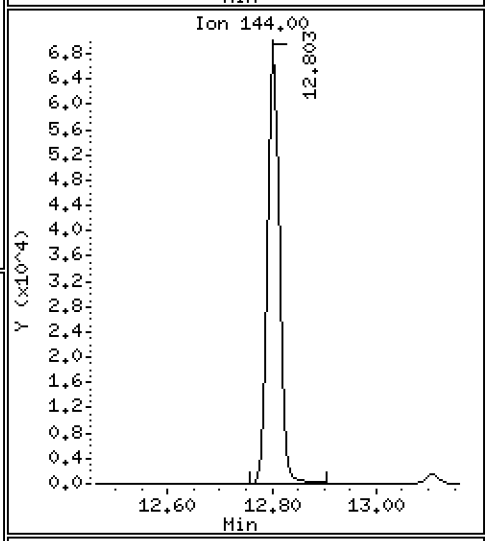


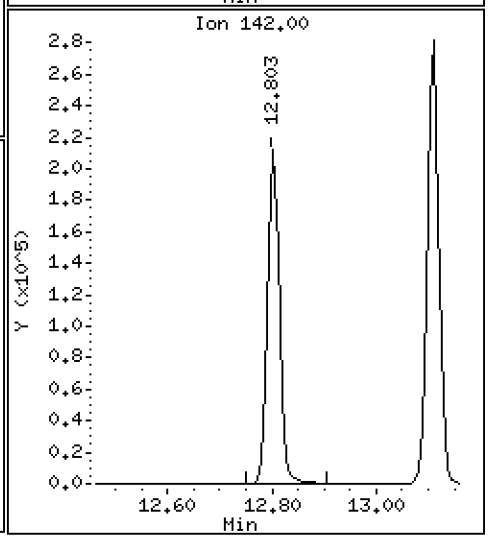












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

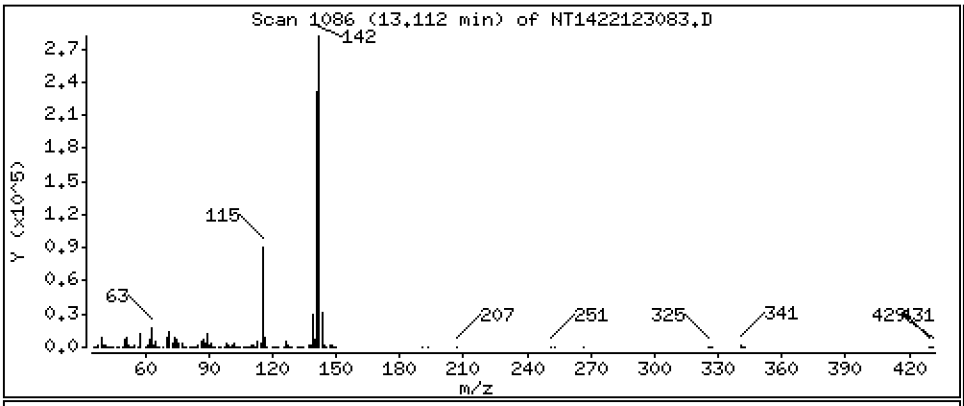
Operator: VTS

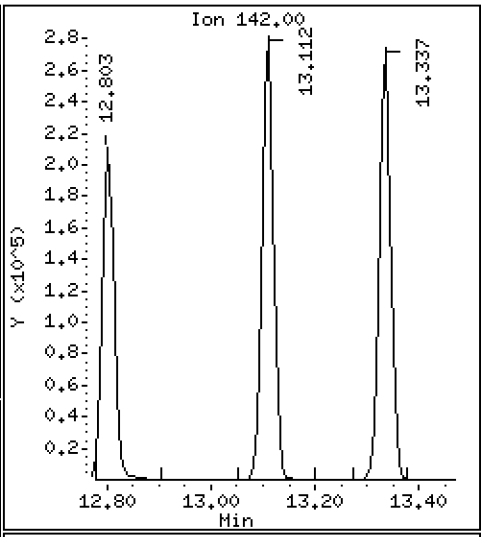
Column phase: ZB-5msi

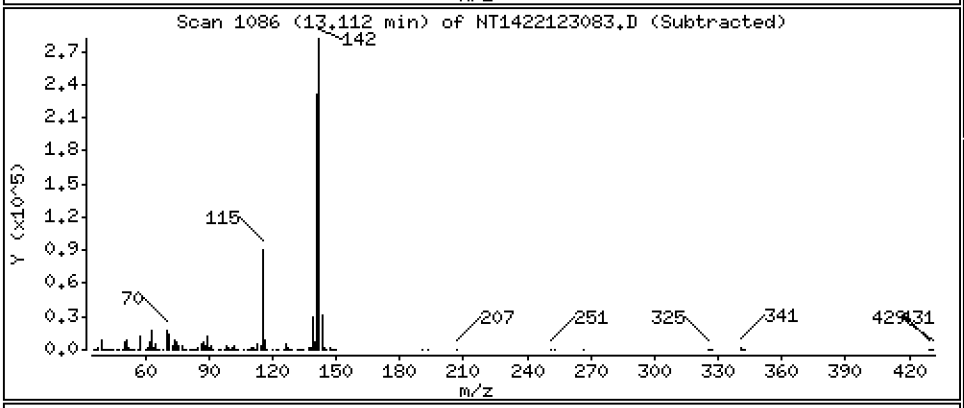
Column diameter: 0.25

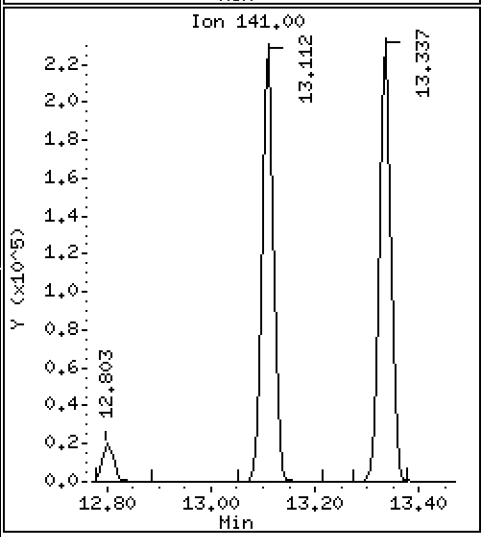
32 2-Methylnaphthalene

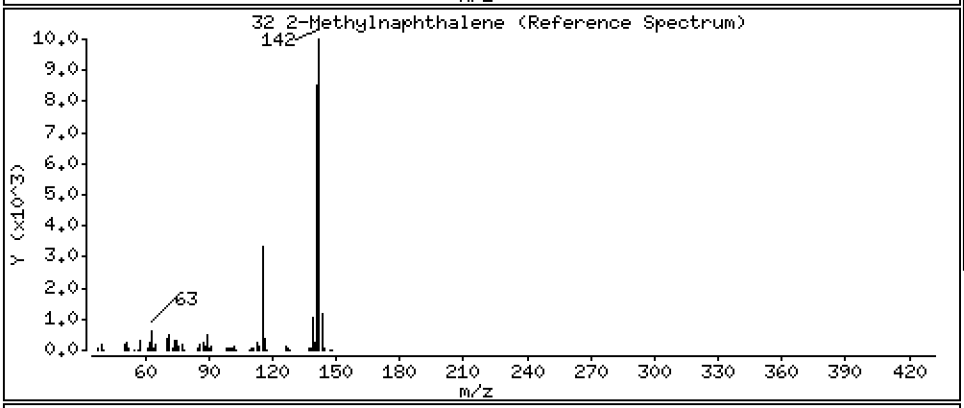
Concentration: 4.777 ug/mL

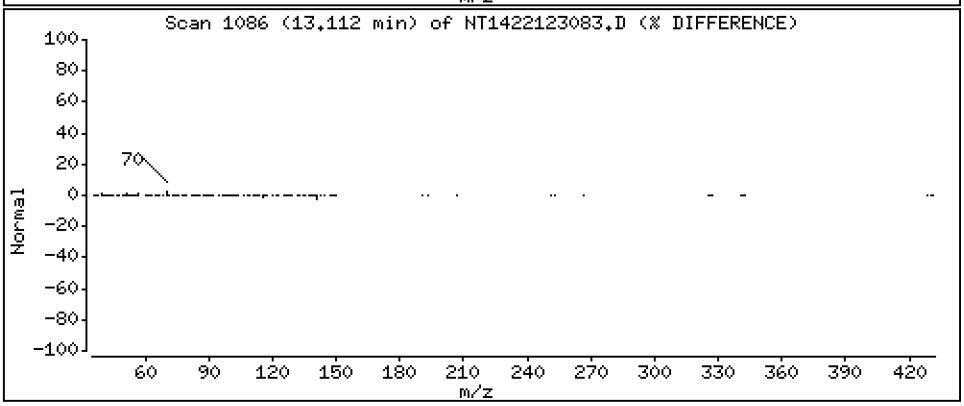












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

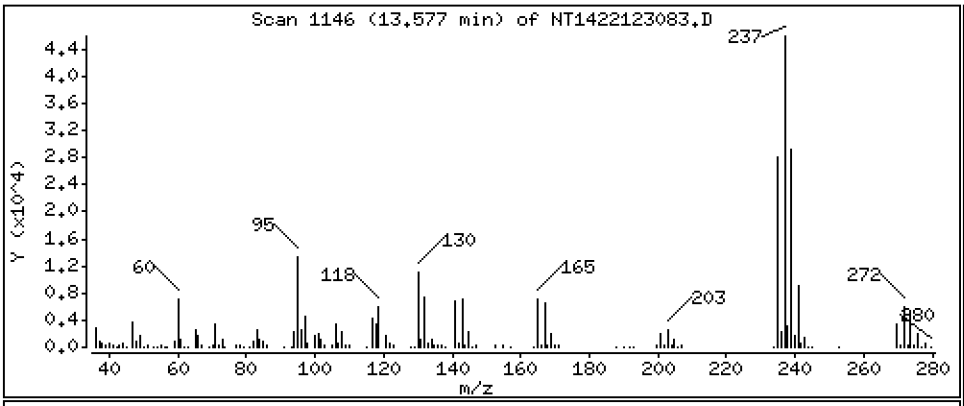
Operator: VTS

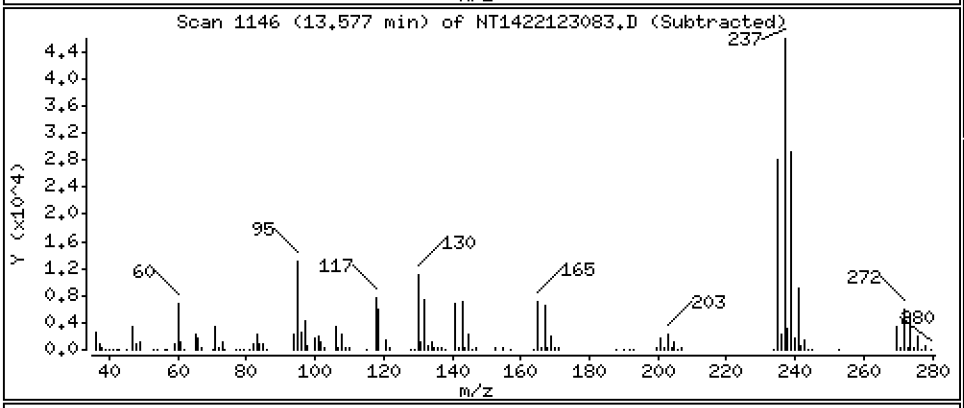
Column phase: ZB-5msi

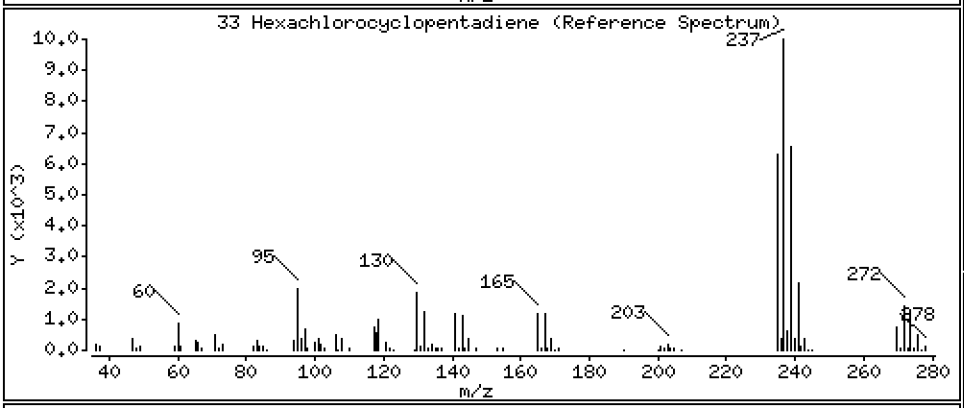
Column diameter: 0.25

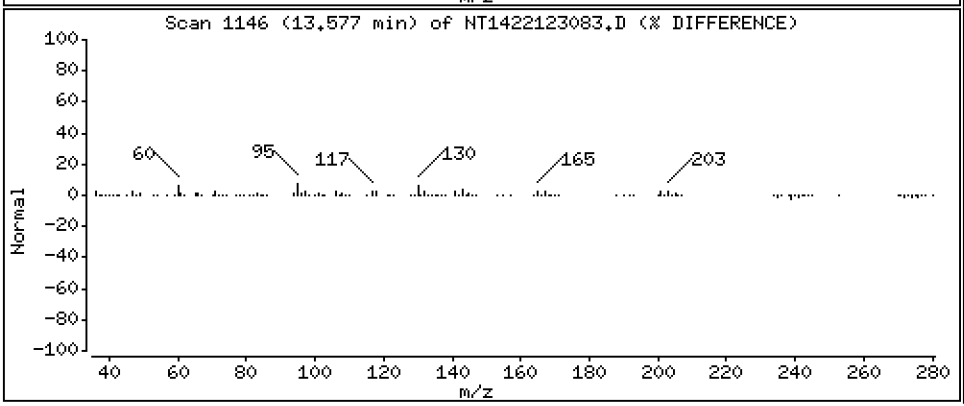
33 Hexachlorocyclopentadiene

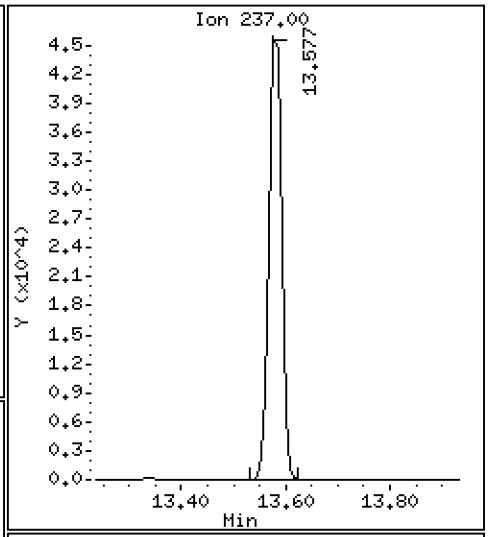
Concentration: 3.594 ug/mL

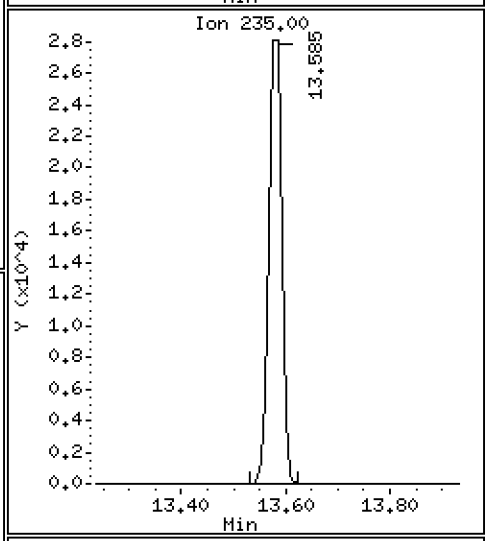


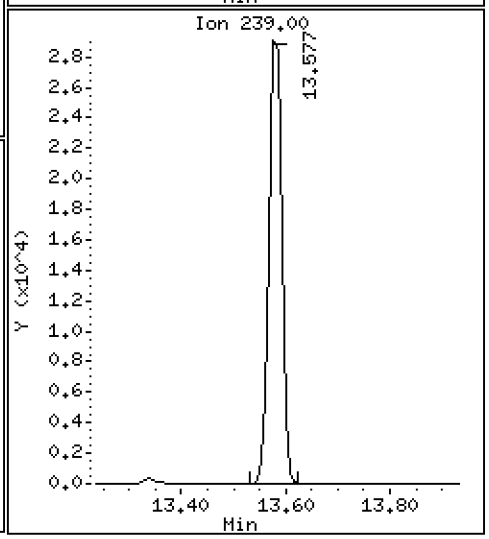












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

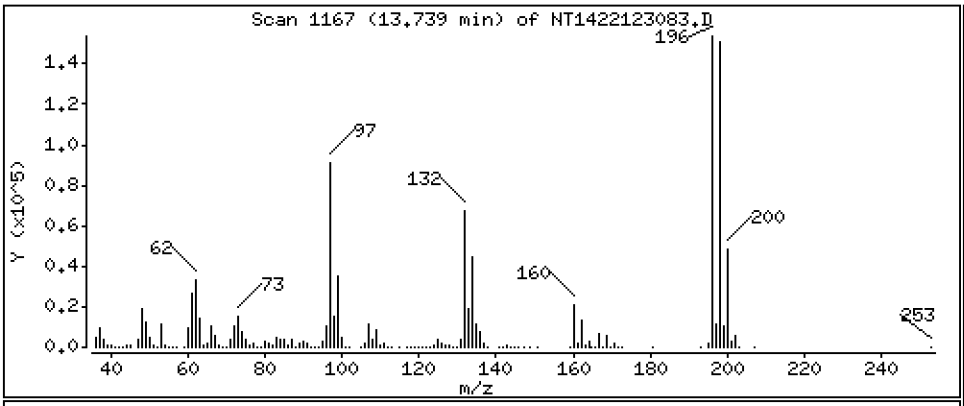
Operator: VTS

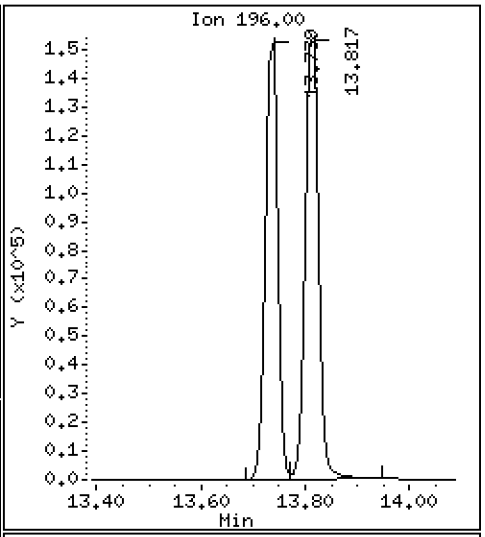
Column phase: ZB-5msi

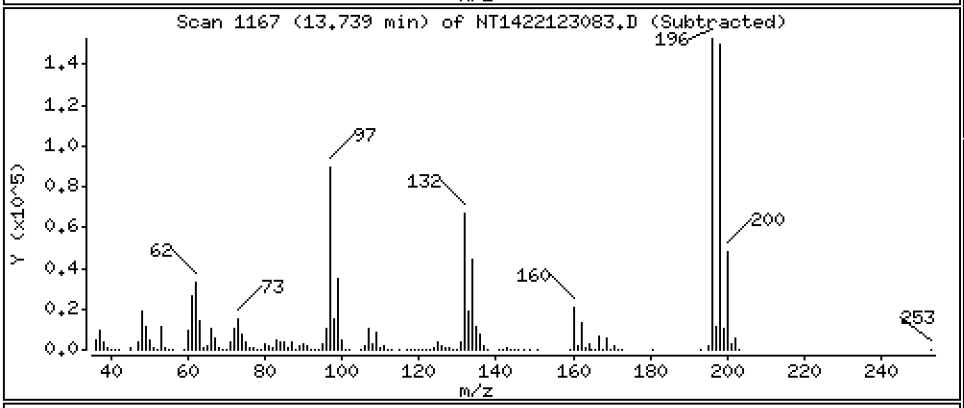
Column diameter: 0.25

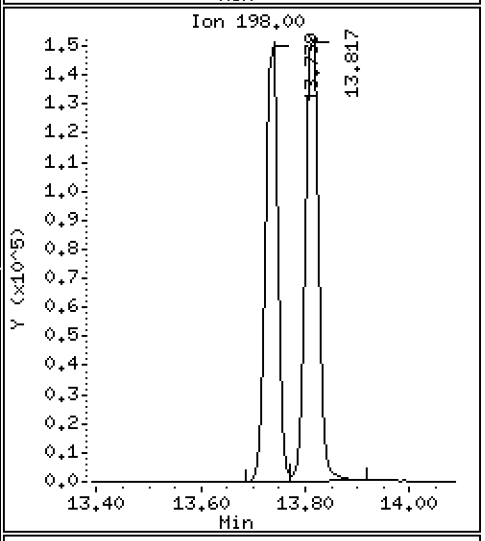
34 2,4,6-Trichlorophenol

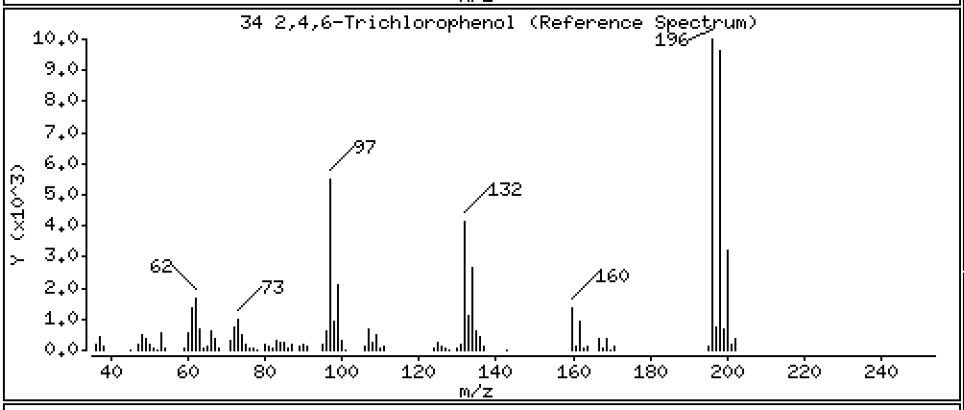
Concentration: 10.37 ug/mL

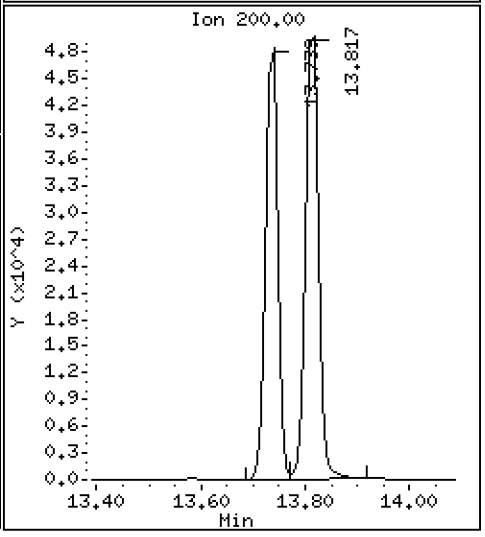


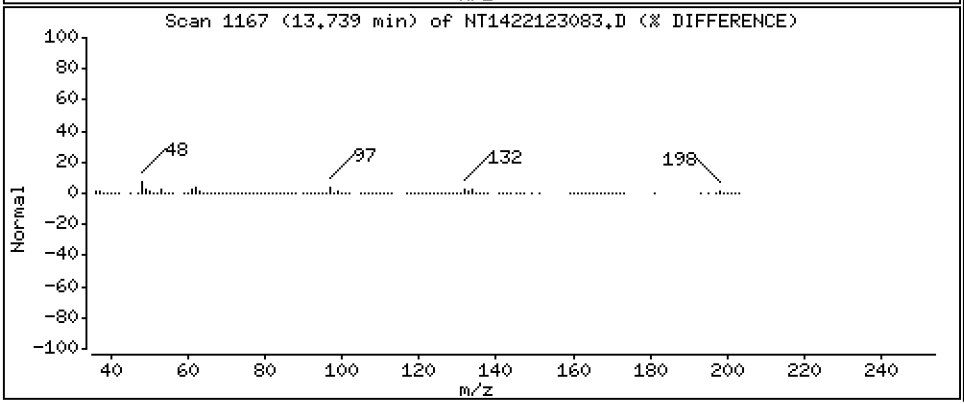












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

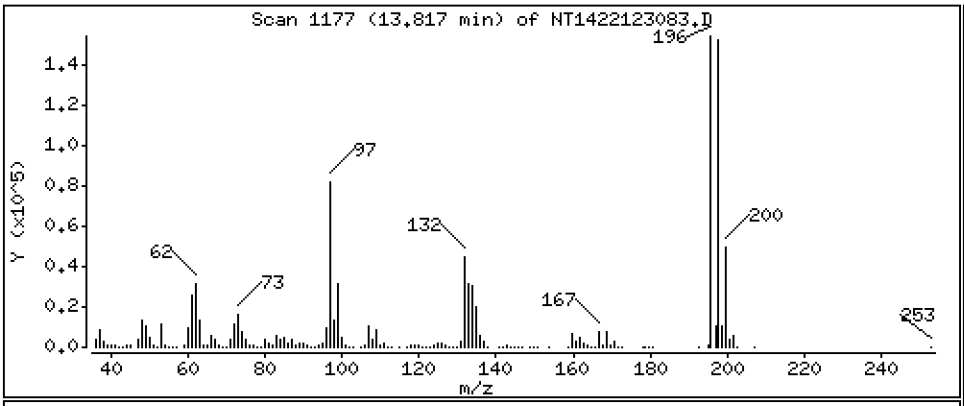
Operator: VTS

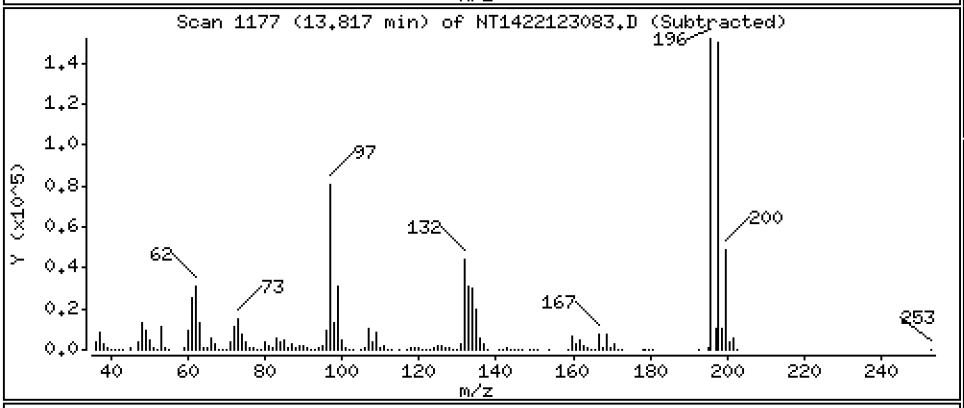
Column phase: ZB-5msi

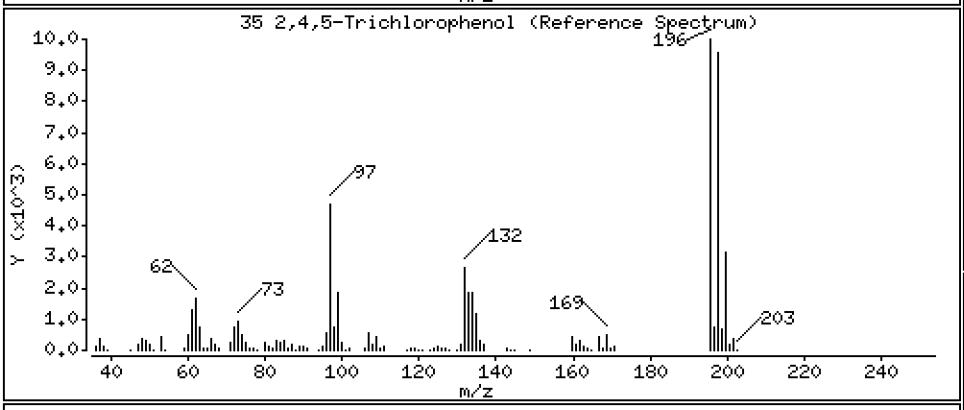
Column diameter: 0.25

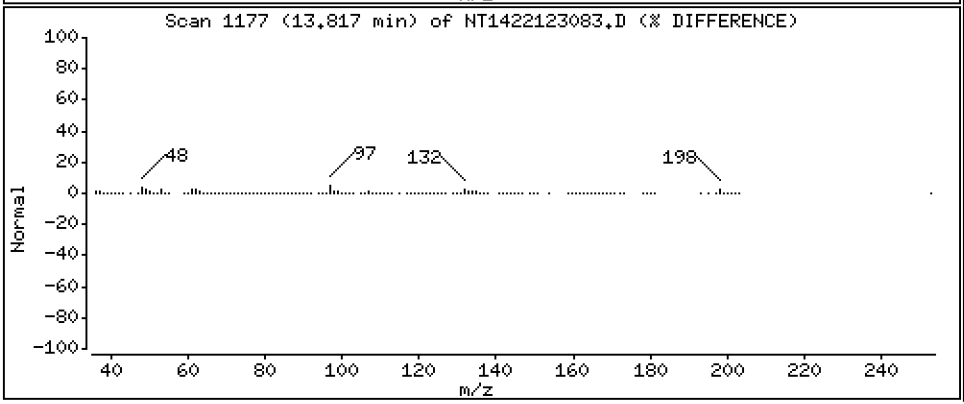
35 2,4,5-Trichlorophenol

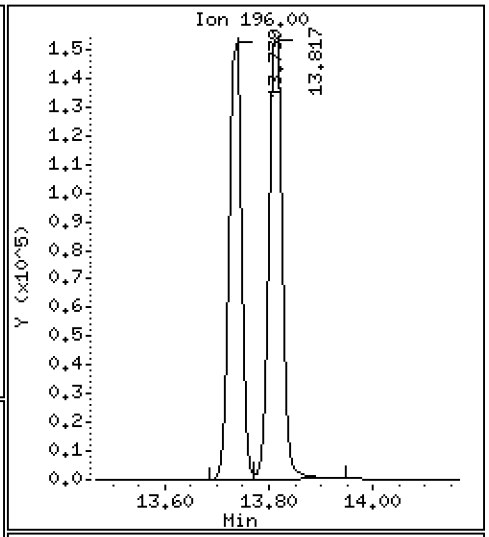
Concentration: 9.924 ug/mL

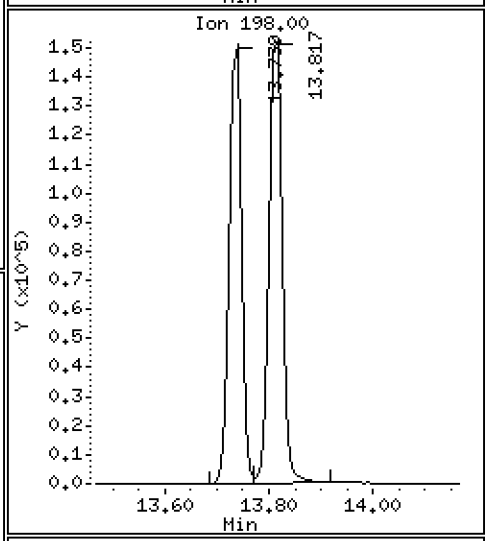


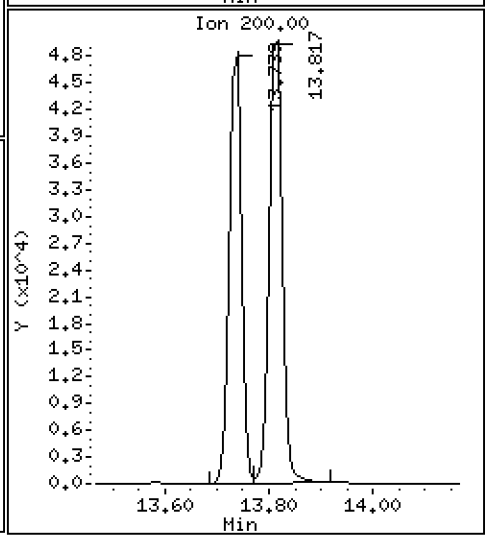












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

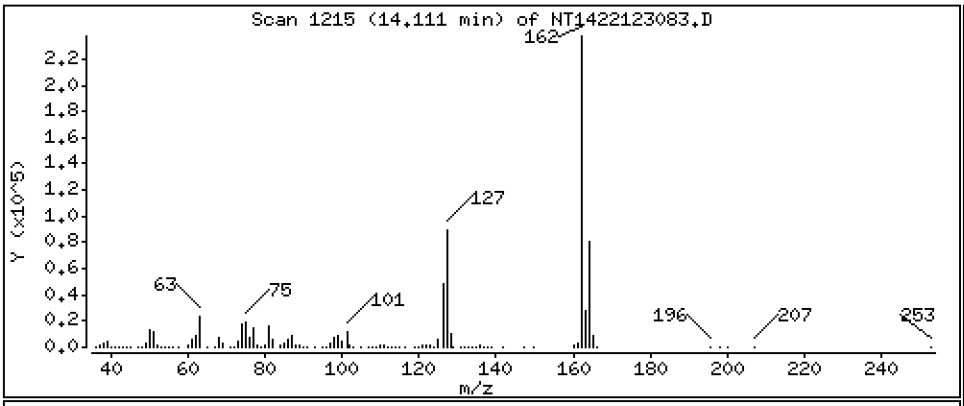
Operator: VTS

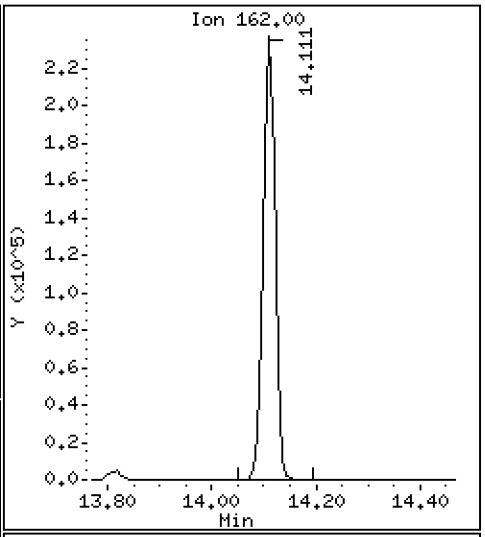
Column phase: ZB-5msi

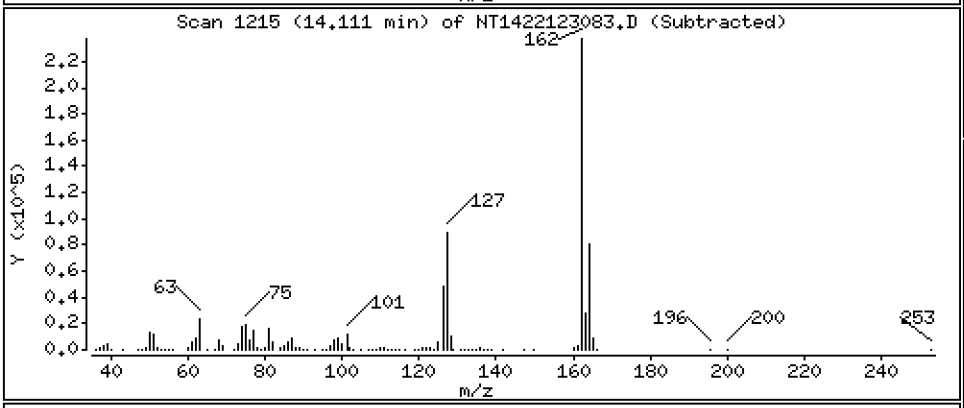
Column diameter: 0.25

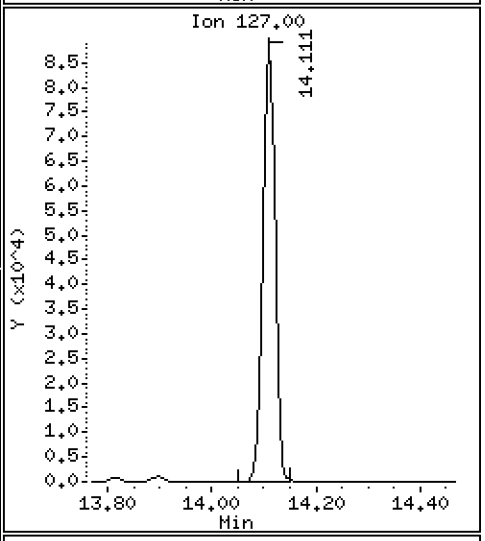
37 2-Chloronaphthalene

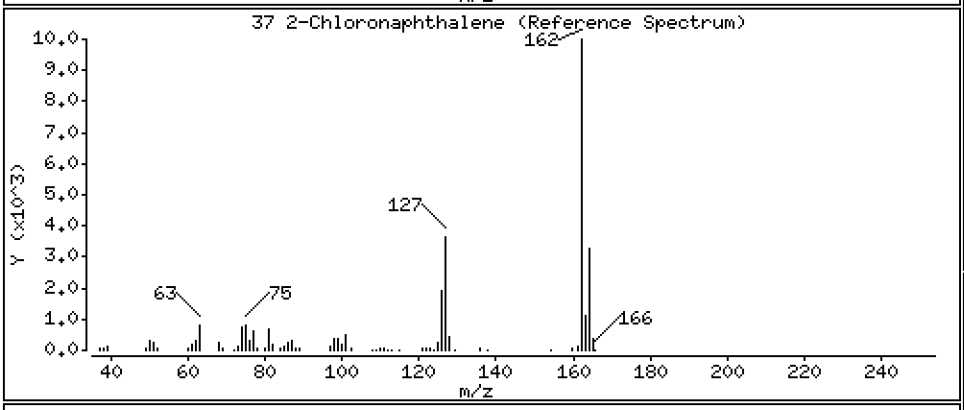
Concentration: 4.581 ug/mL

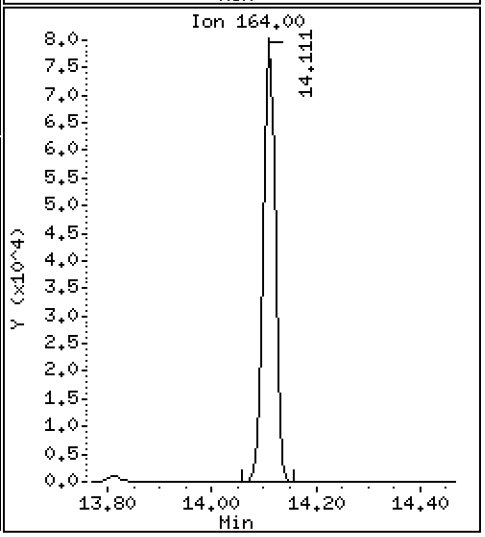


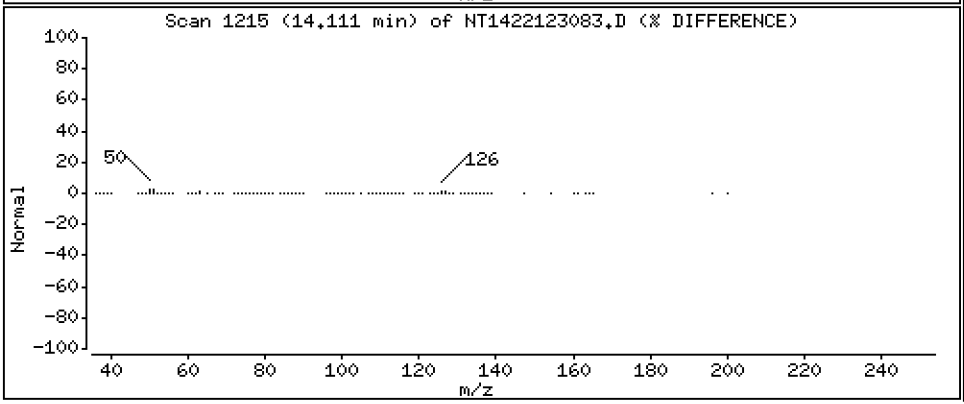












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

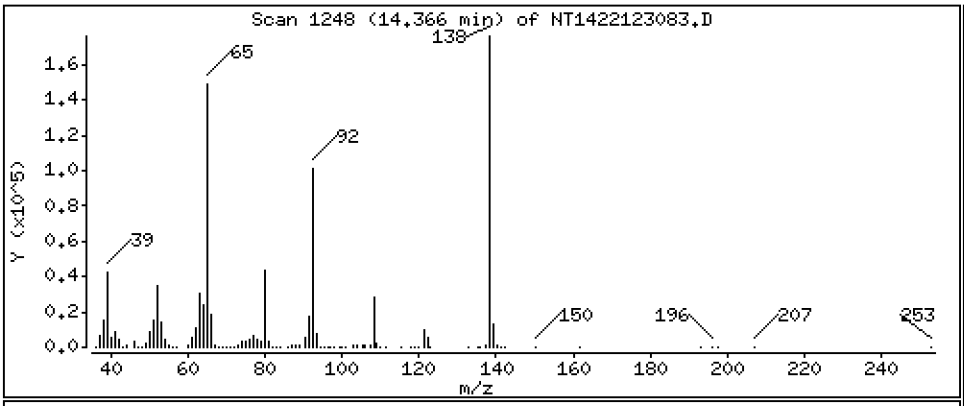
Operator: VTS

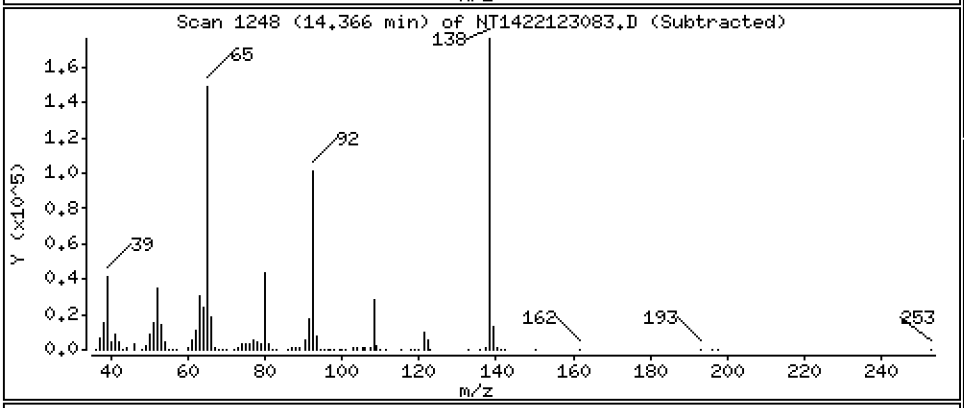
Column phase: ZB-5msi

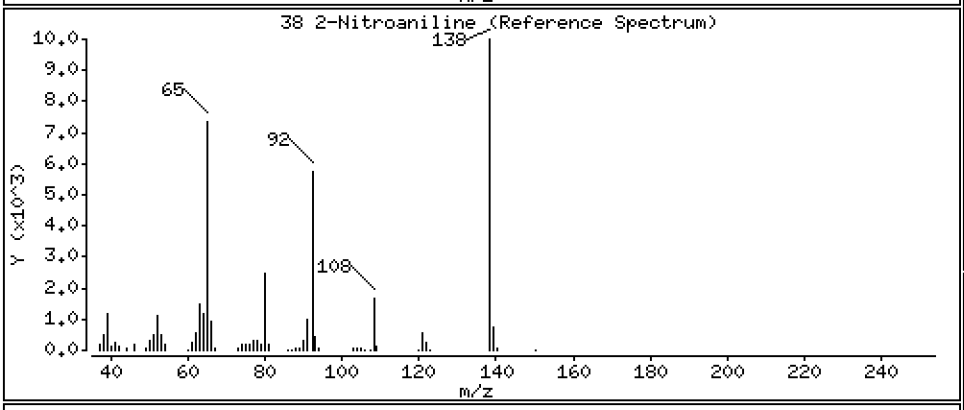
Column diameter: 0.25

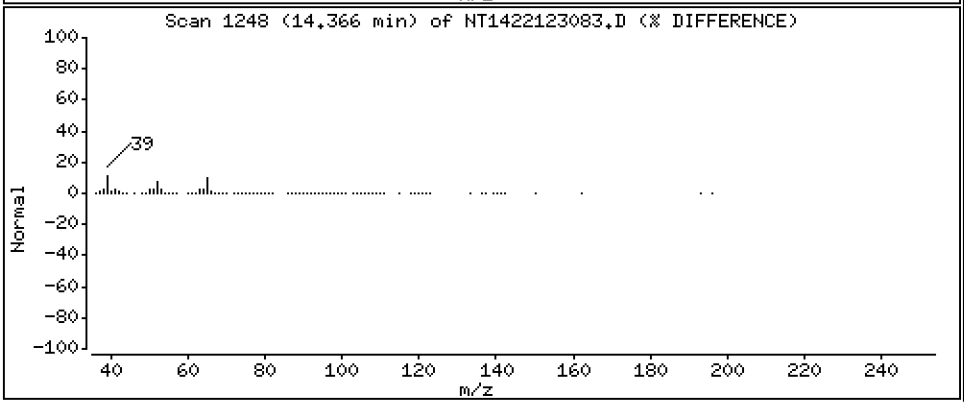
38 2-Nitroaniline

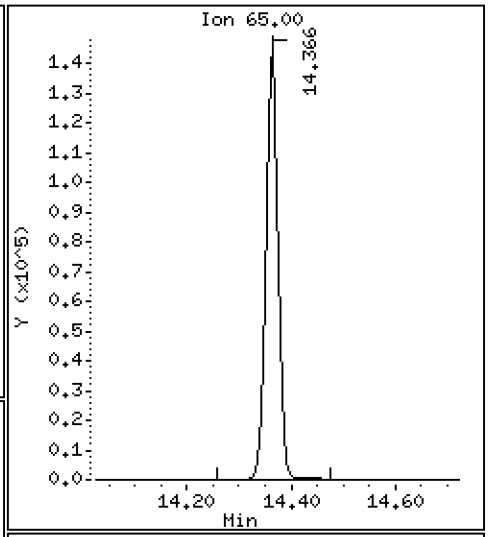
Concentration: 11.27 ug/mL

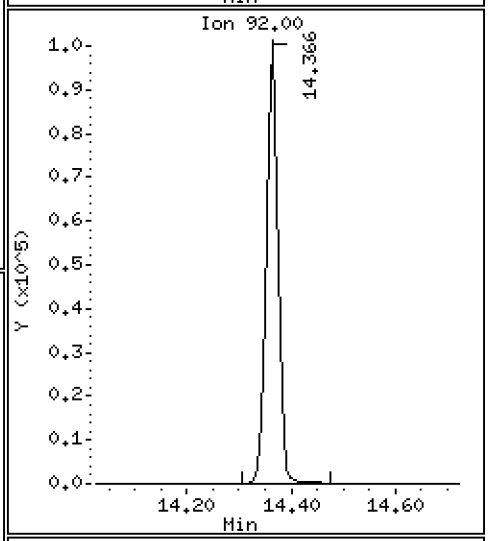


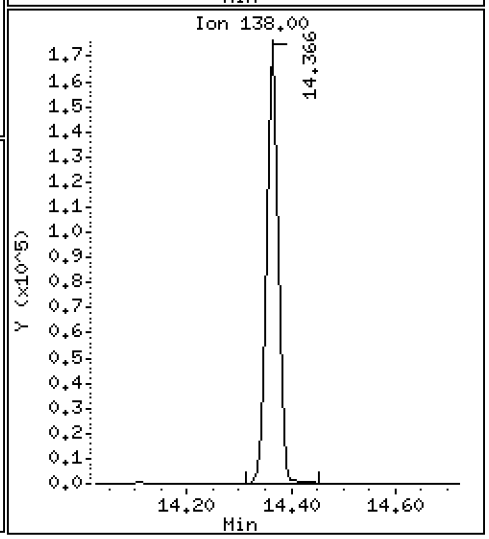












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

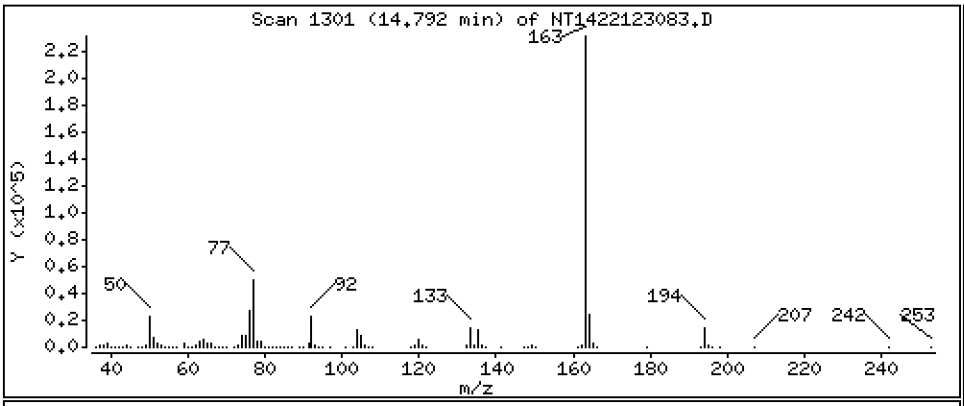
Operator: VTS

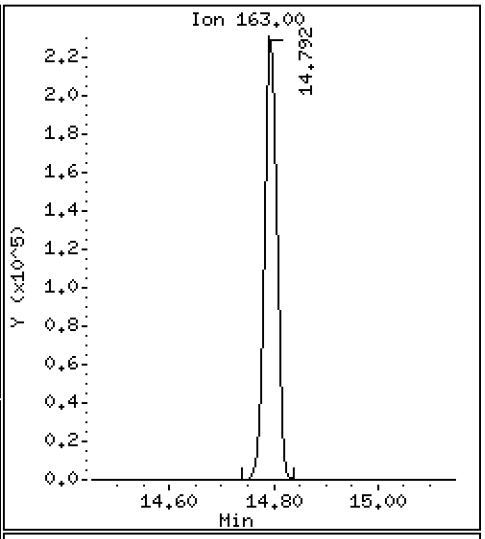
Column phase: ZB-5msi

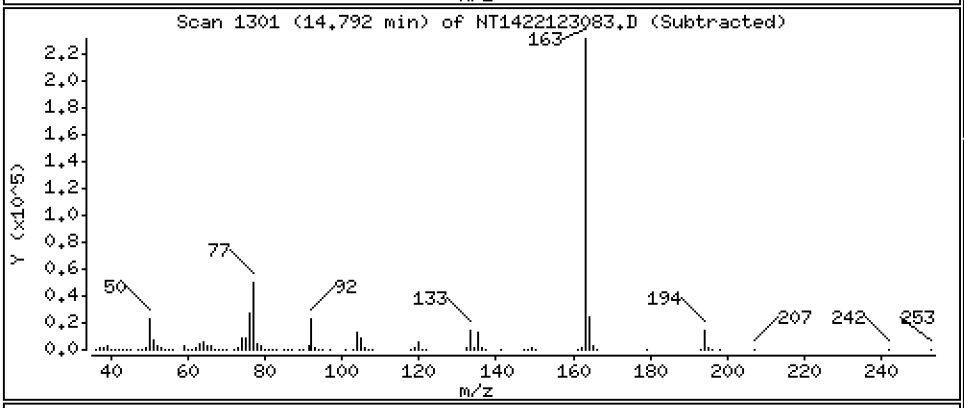
Column diameter: 0.25

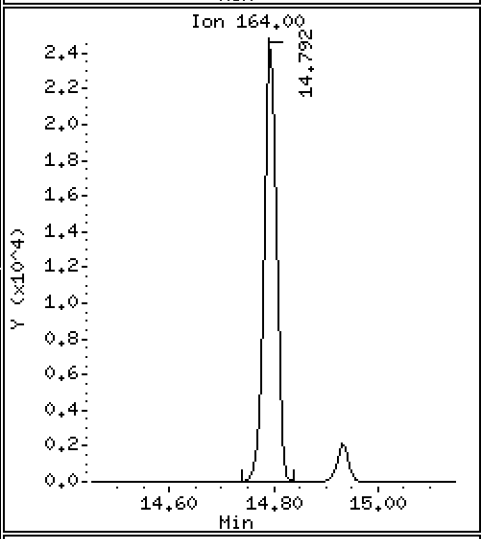
39 Dimethylphthalate

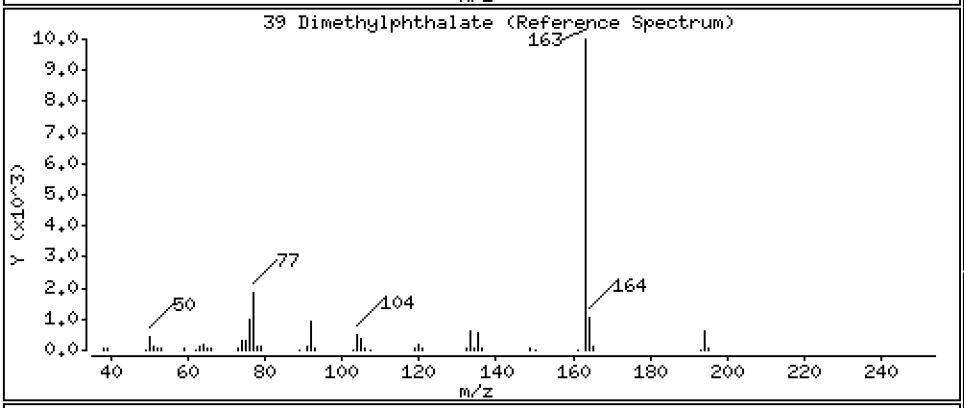
Concentration: 4.791 ug/mL

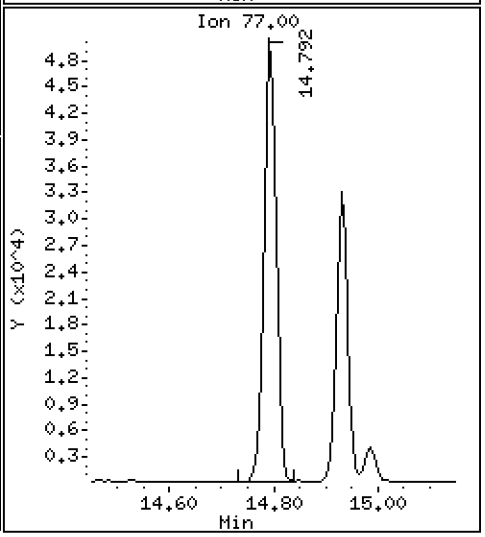


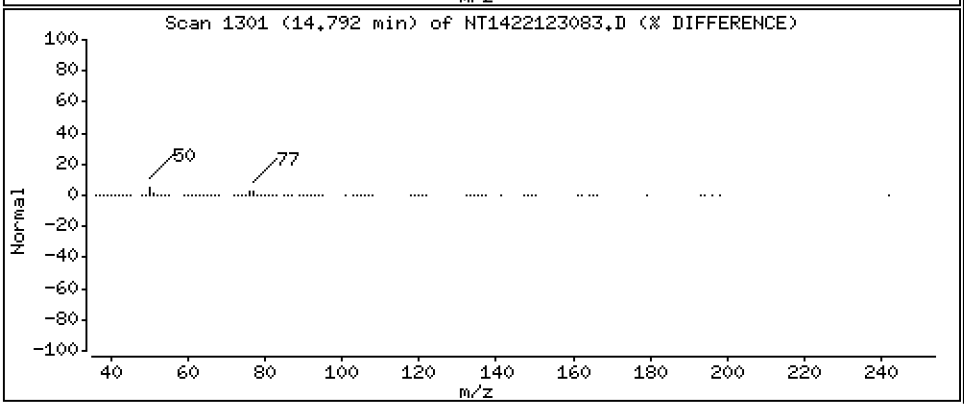












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

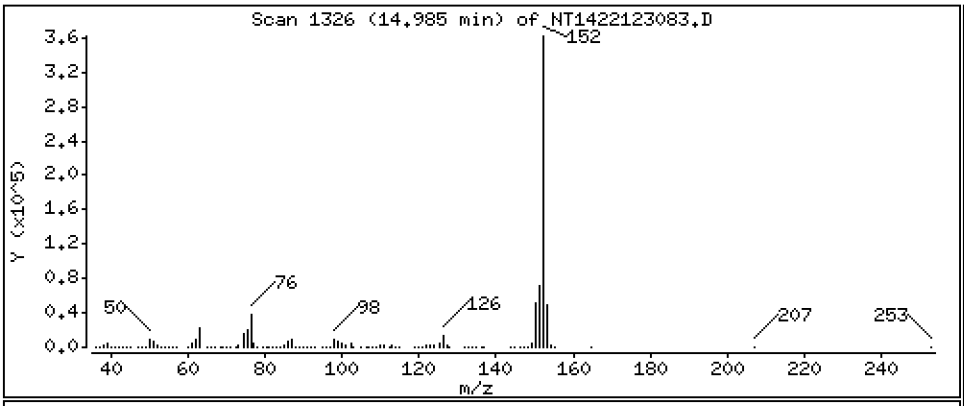
Operator: VTS

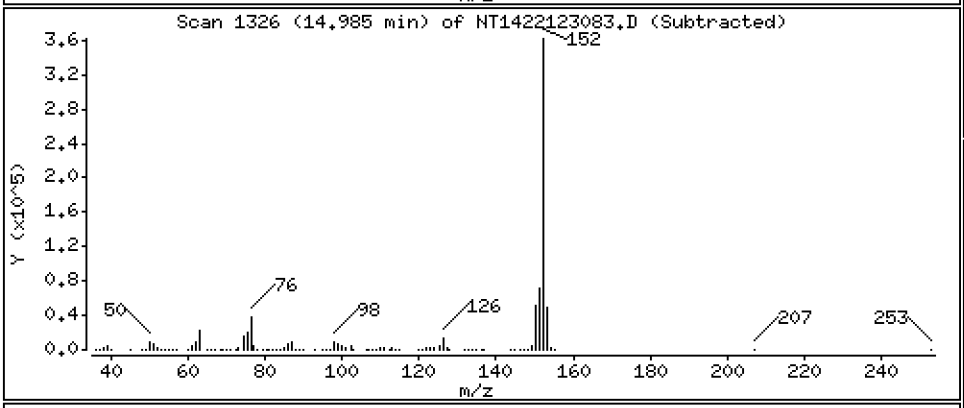
Column phase: ZB-5msi

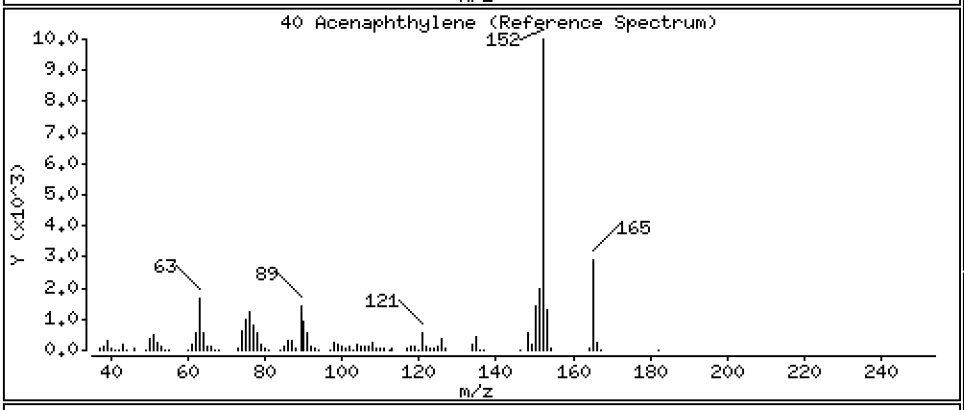
Column diameter: 0.25

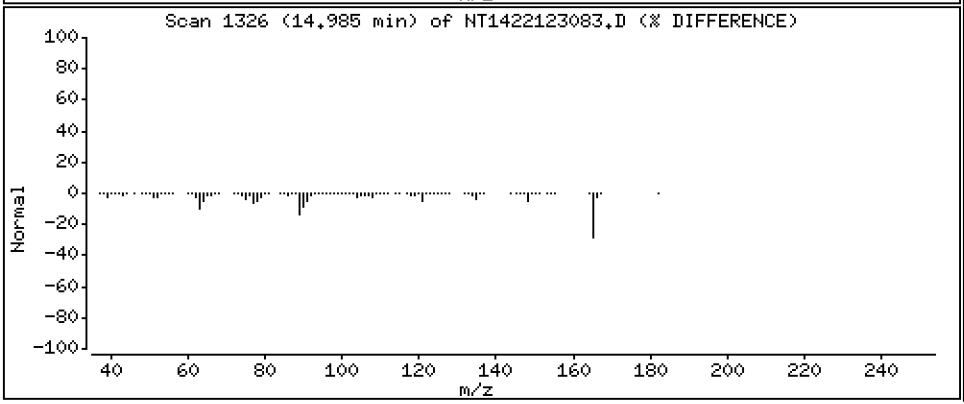
40 Acenaphthylene

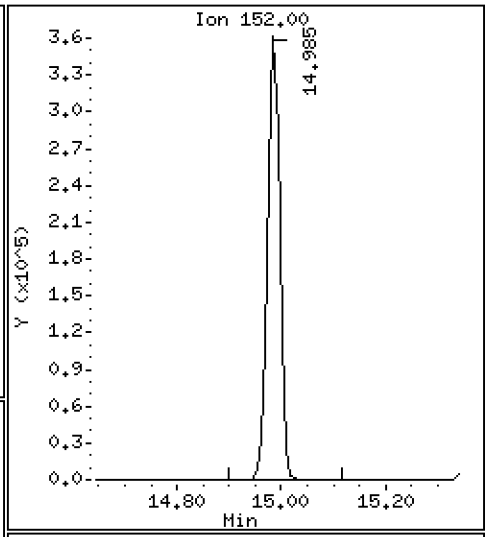
Concentration: 5.043 ug/mL

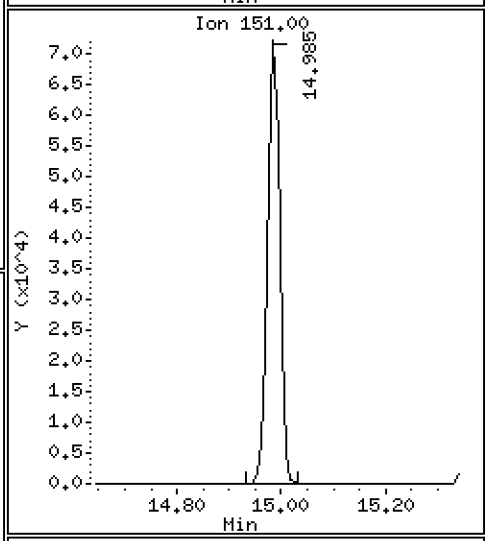


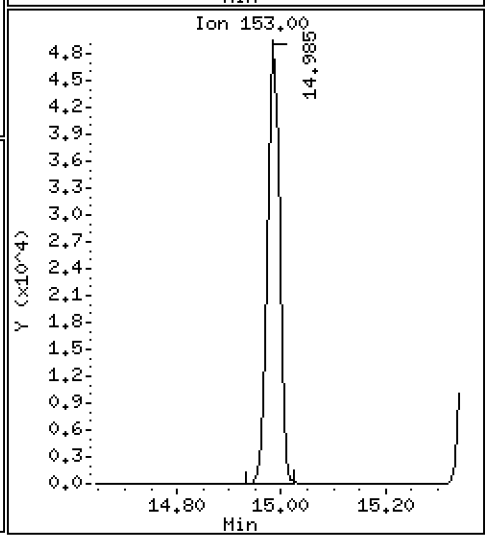












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

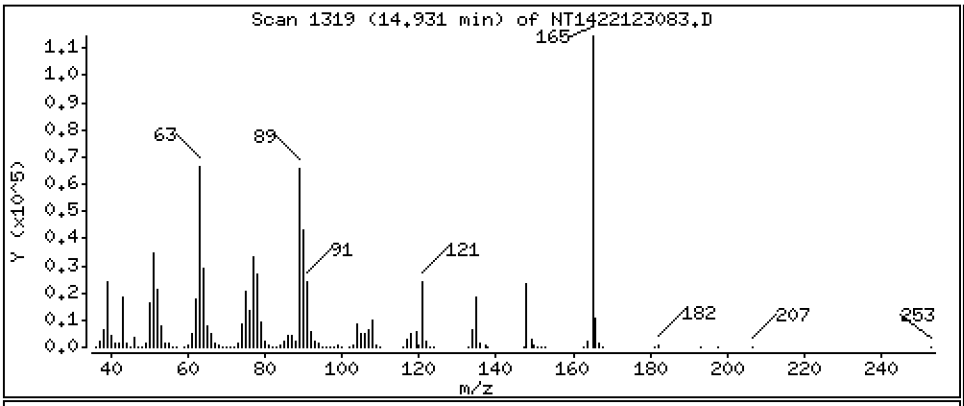
Operator: VTS

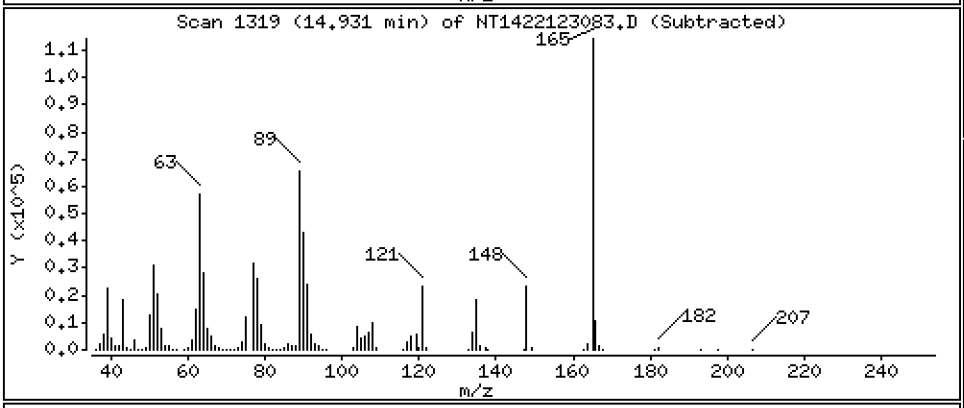
Column phase: ZB-5msi

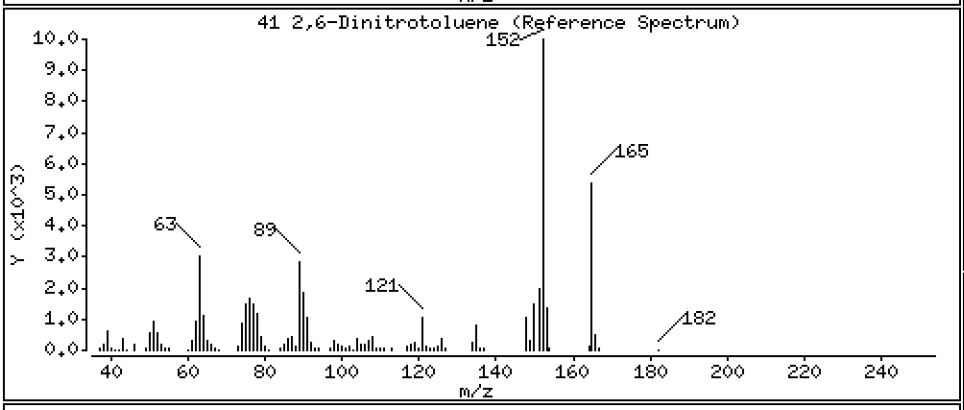
Column diameter: 0.25

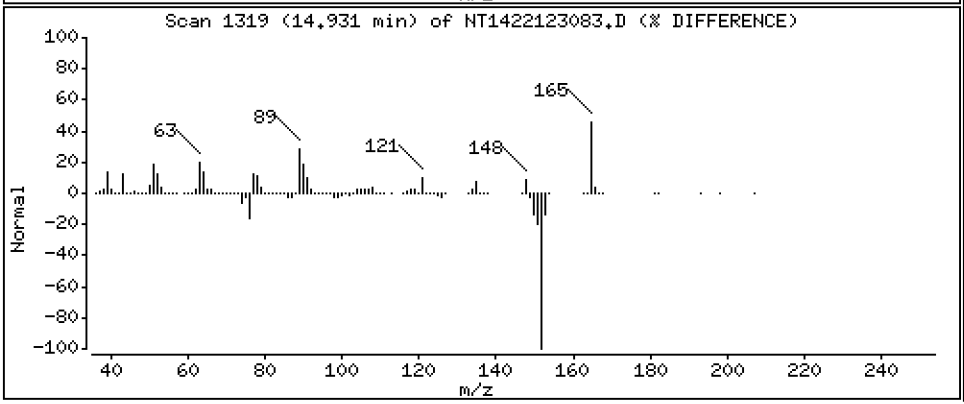
41 2,6-Dinitrotoluene

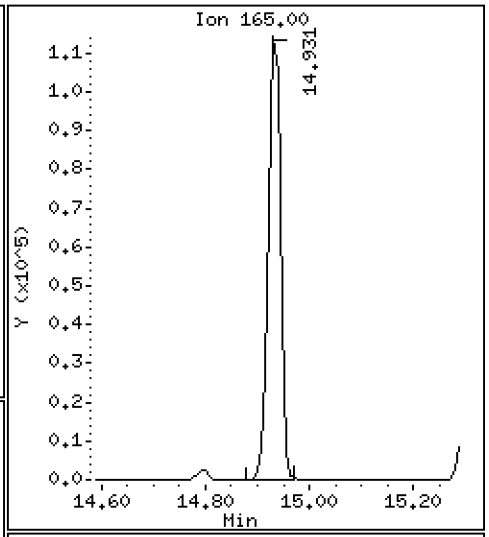
Concentration: 10.14 ug/mL

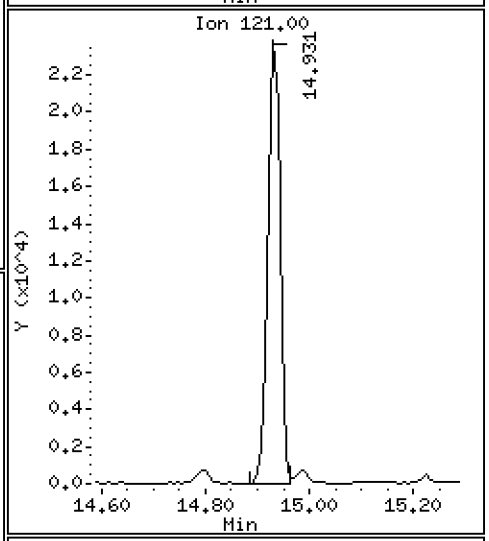


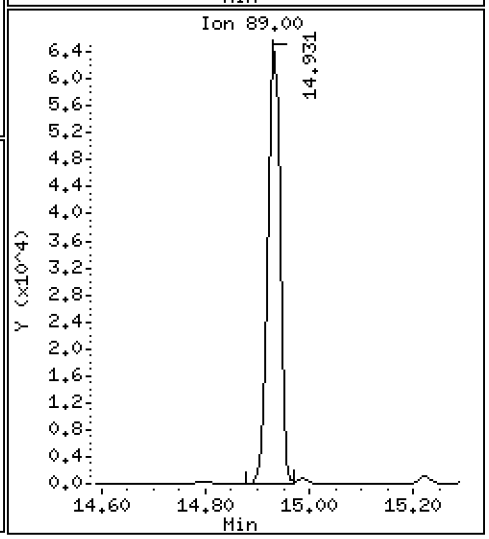












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

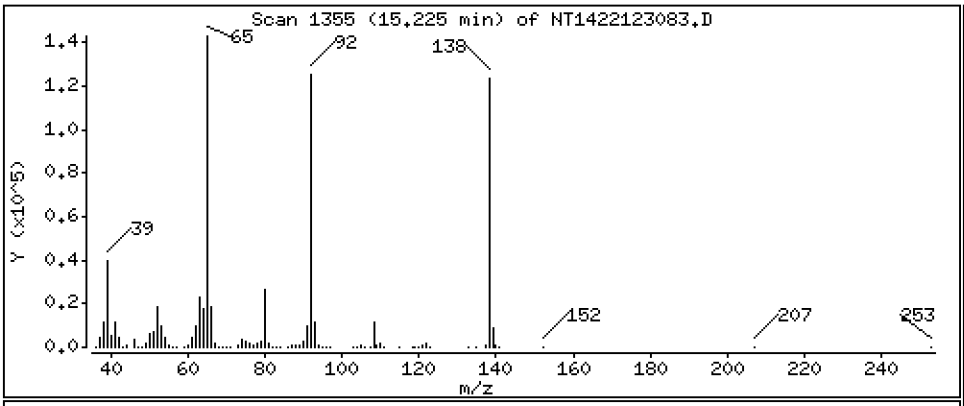
Operator: VTS

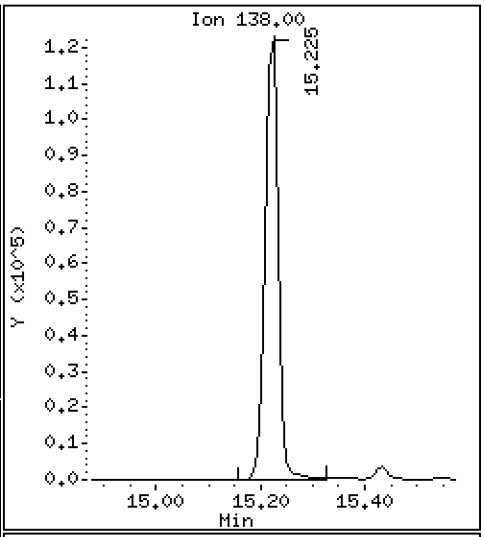
Column phase: ZB-5msi

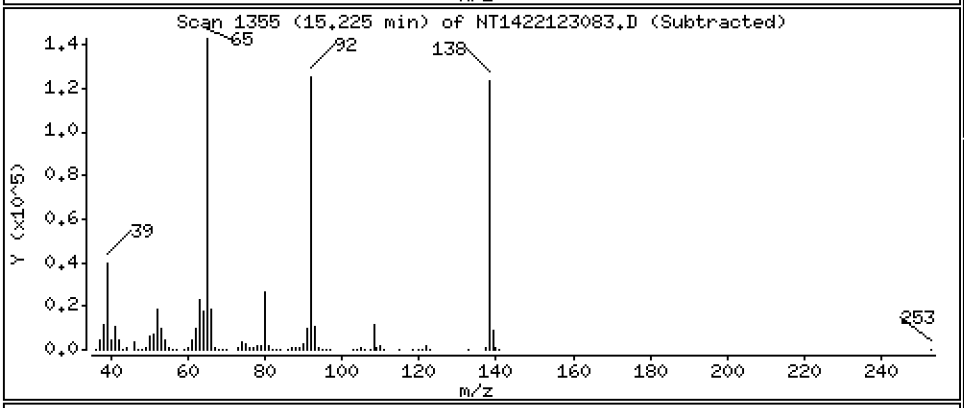
Column diameter: 0.25

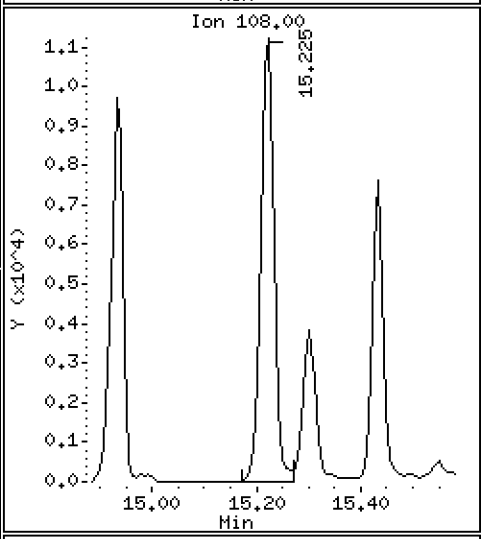
43 3-Nitroaniline

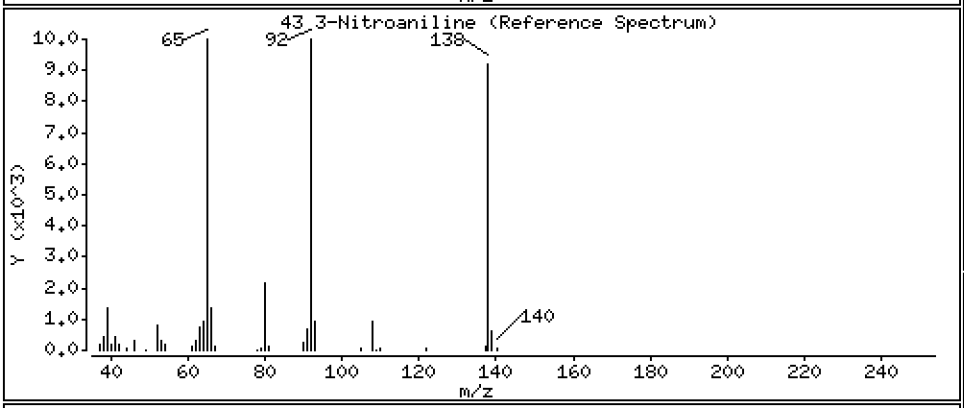
Concentration: 9.682 ug/mL

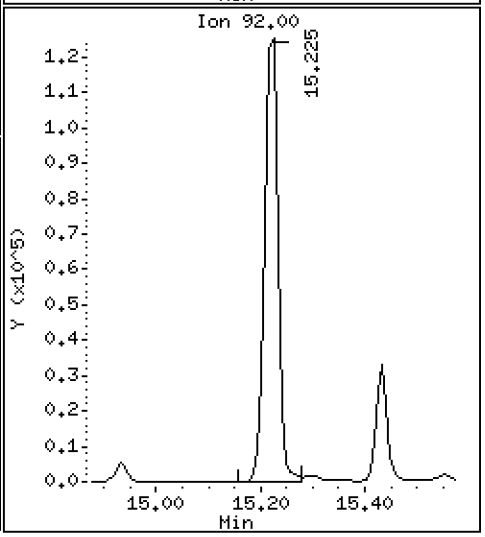


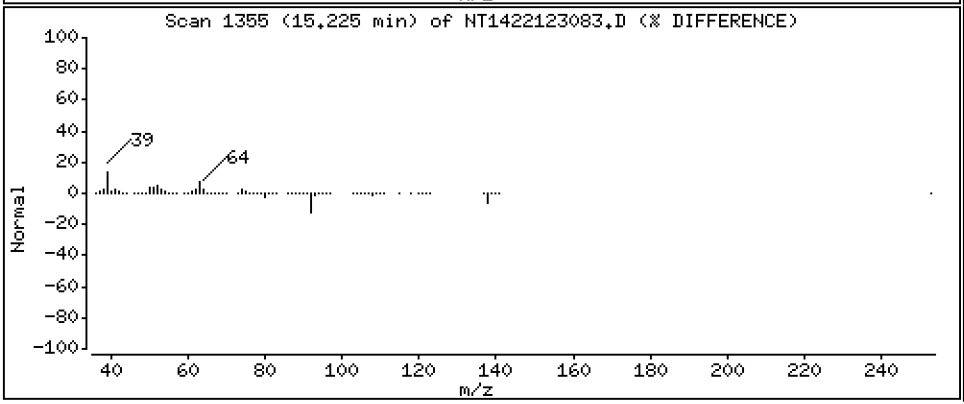












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

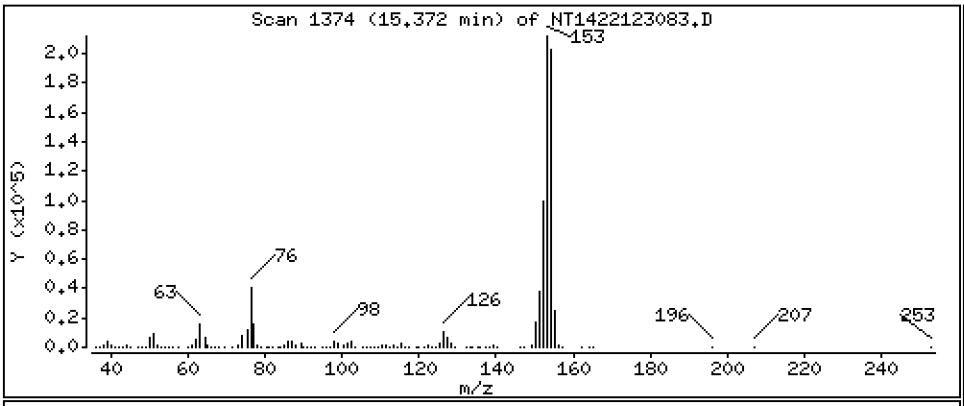
Operator: VTS

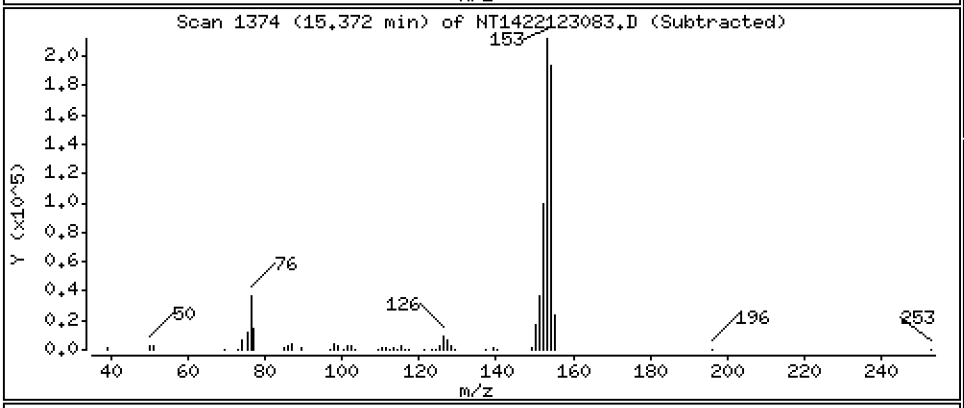
Column phase: ZB-5msi

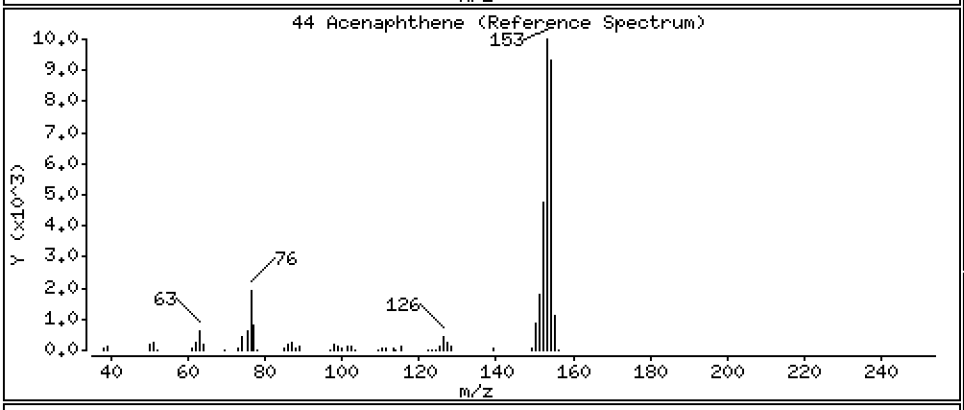
Column diameter: 0.25

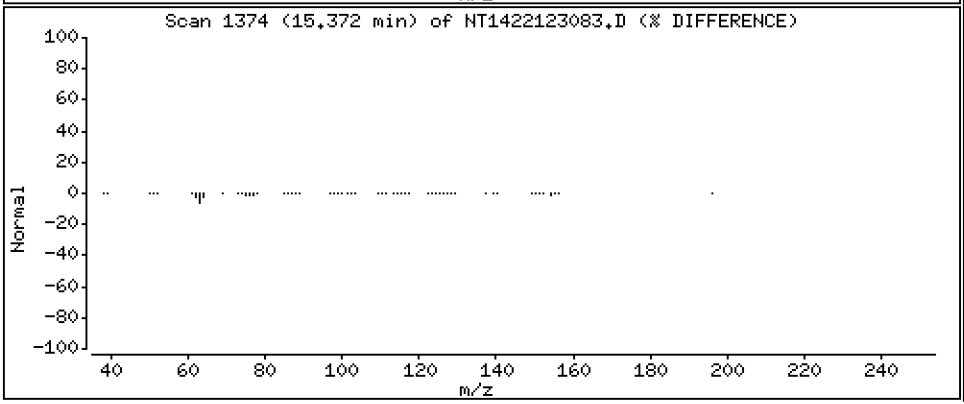
44 Acenaphthene

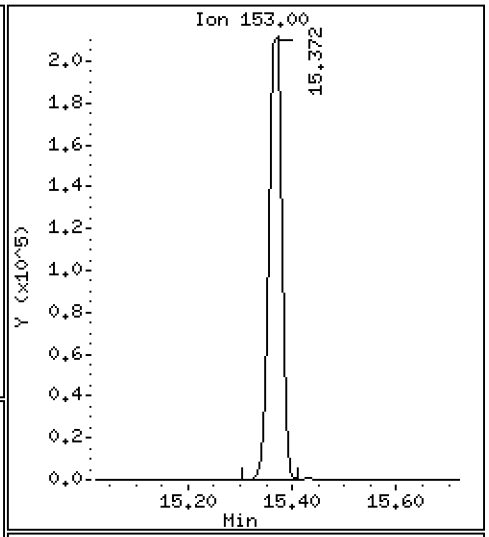
Concentration: 4.621 ug/mL

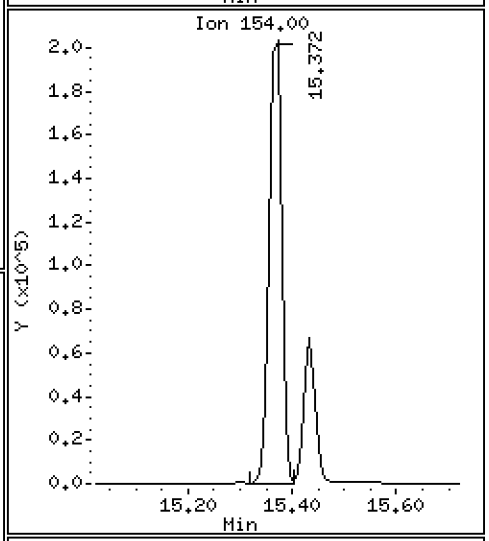


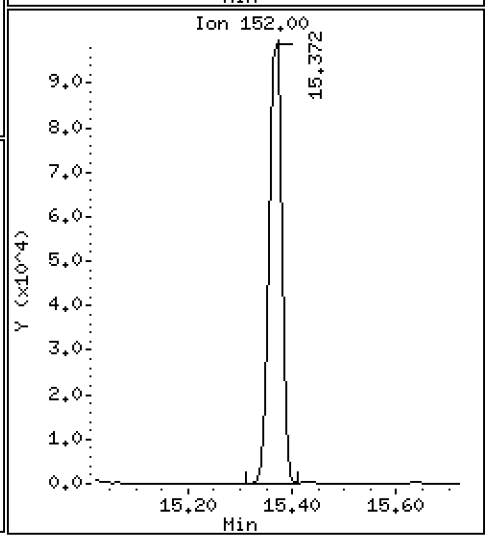












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

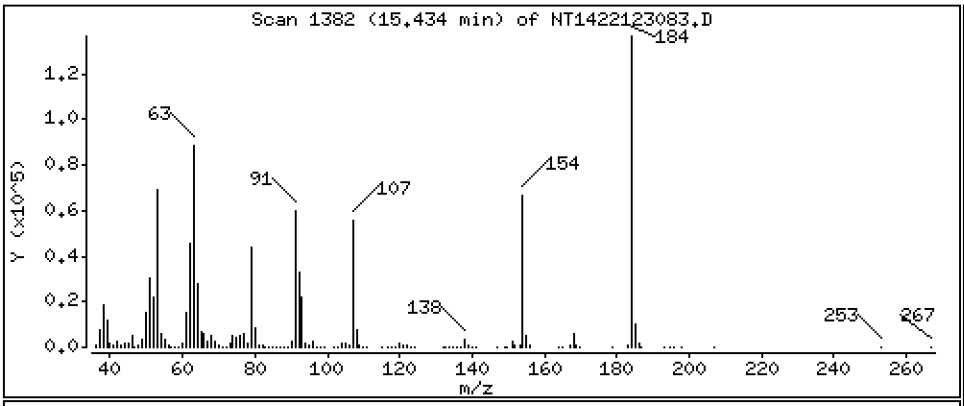
Operator: VTS

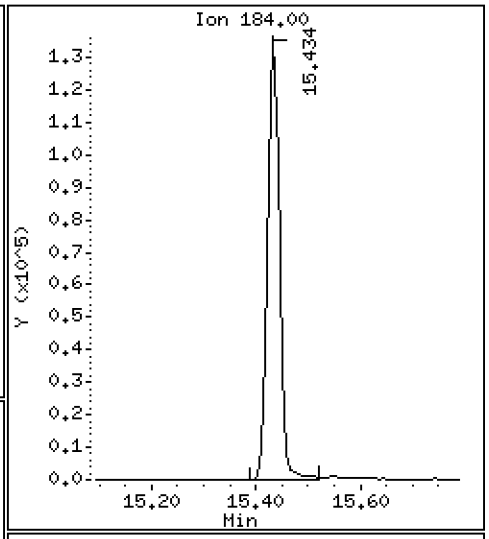
Column phase: ZB-5msi

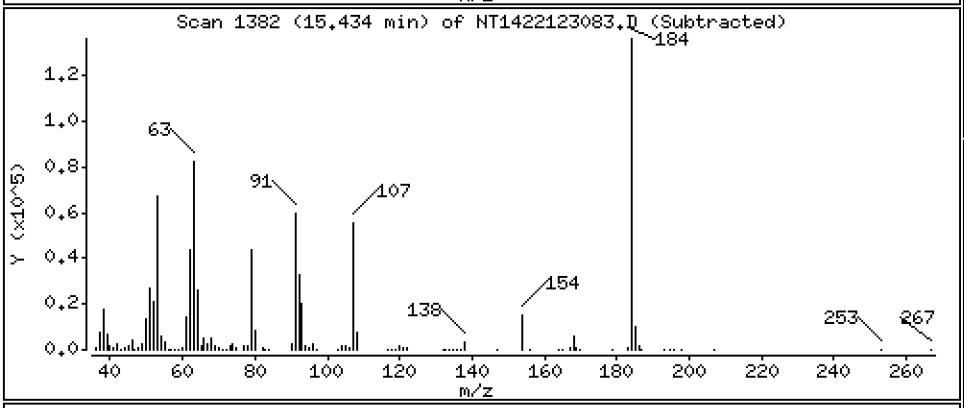
Column diameter: 0.25

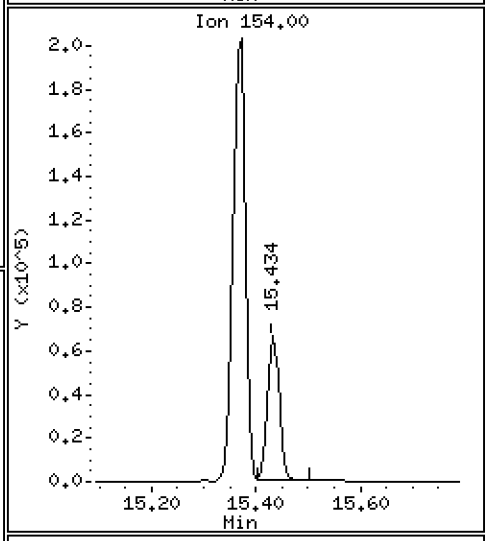
45 2,4-Dinitrophenol

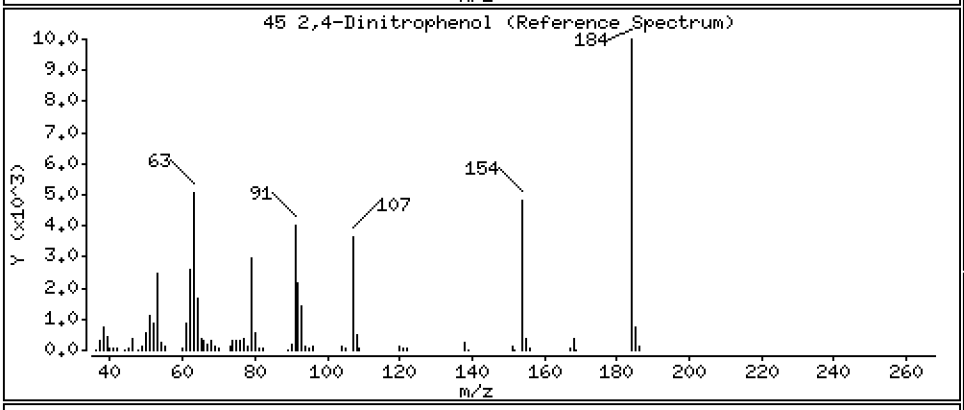
Concentration: 13.30 ug/mL

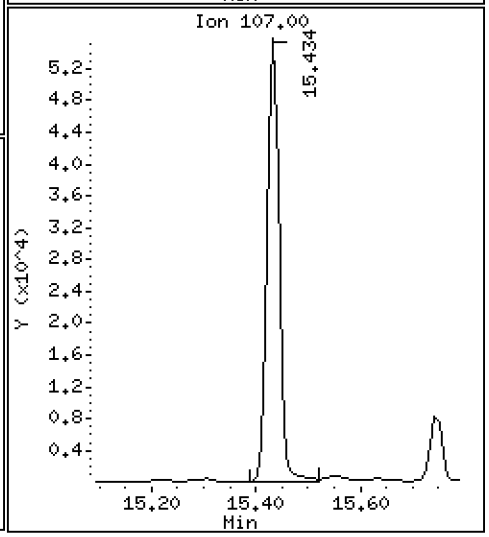


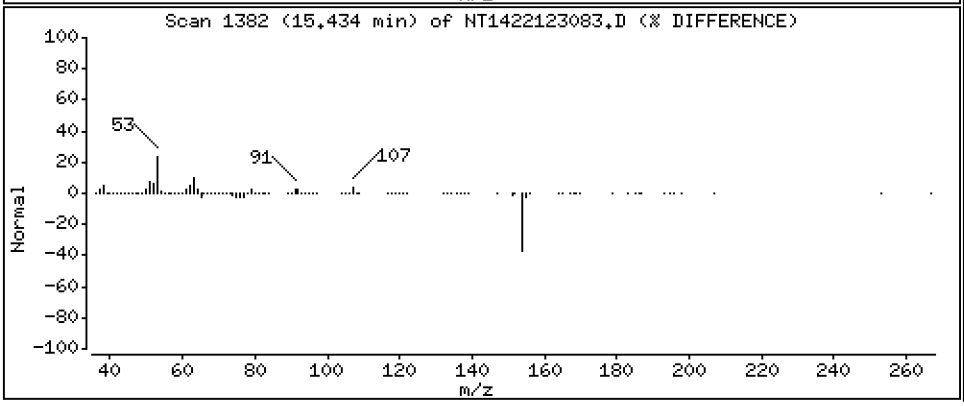












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

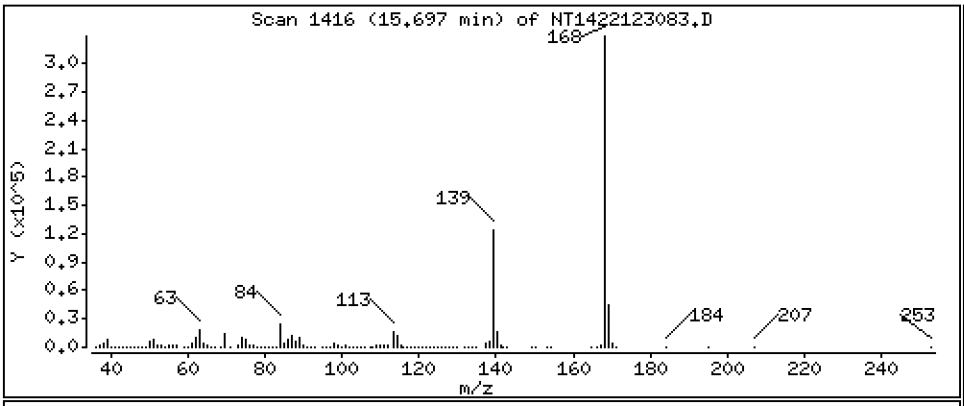
Operator: VTS

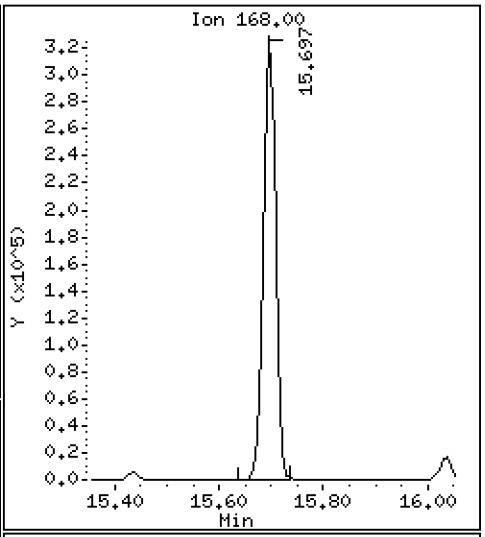
Column phase: ZB-5msi

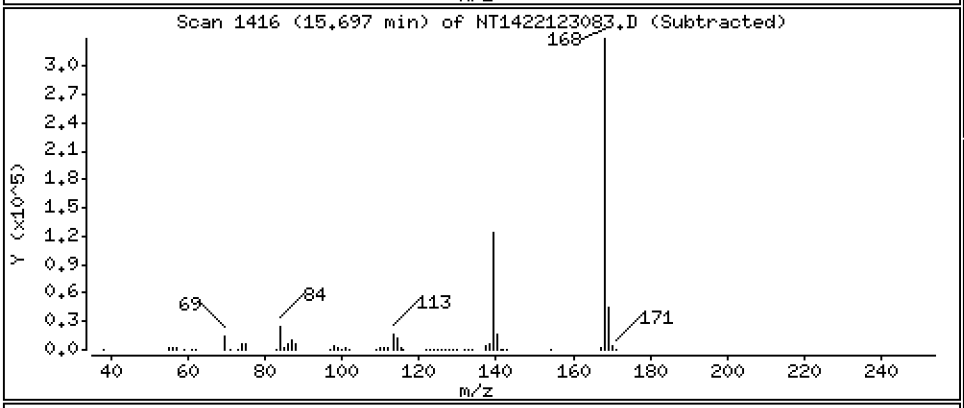
Column diameter: 0.25

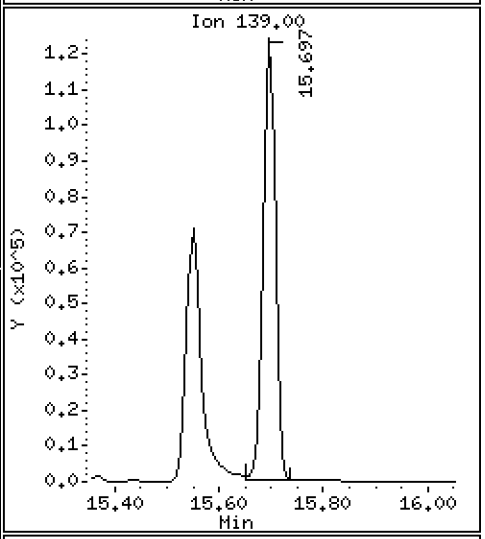
46 Dibenzofuran

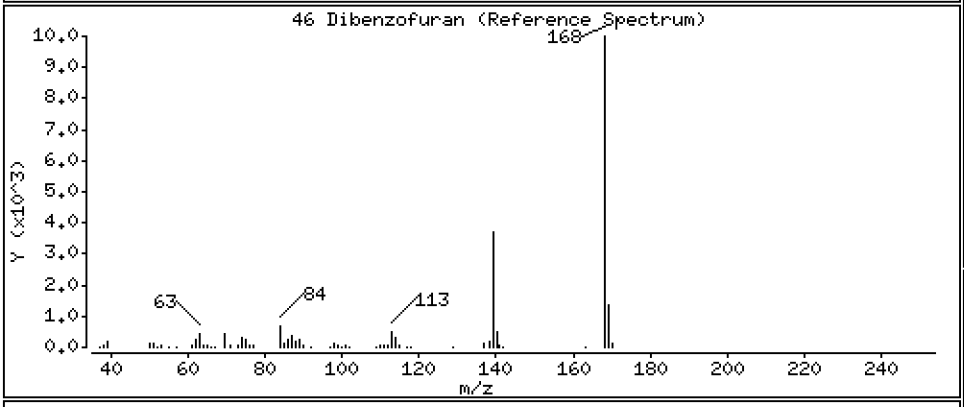
Concentration: 4.517 ug/mL

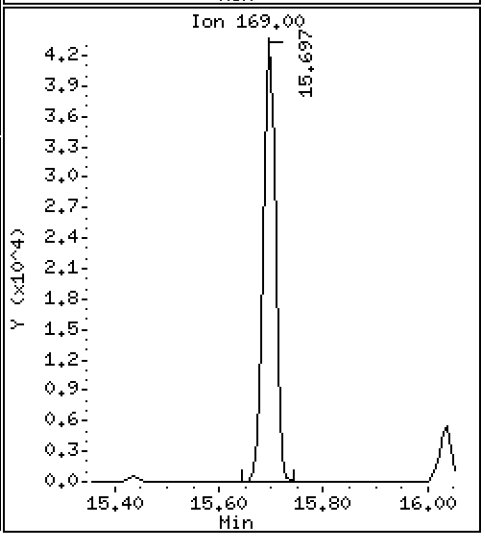


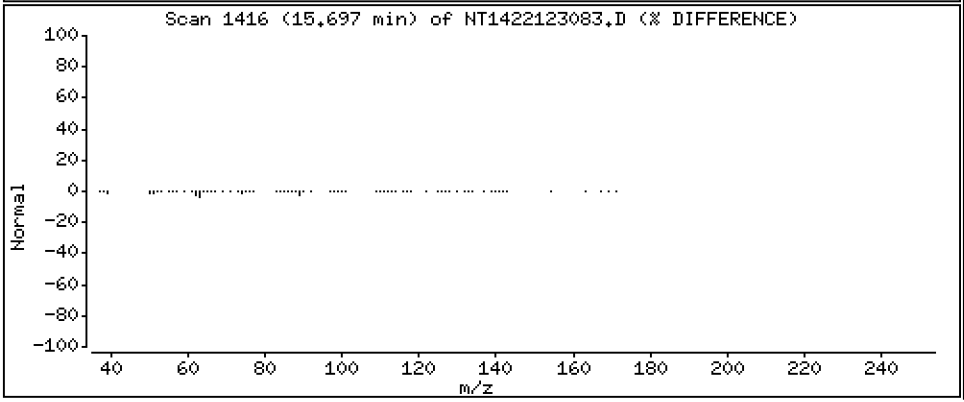












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

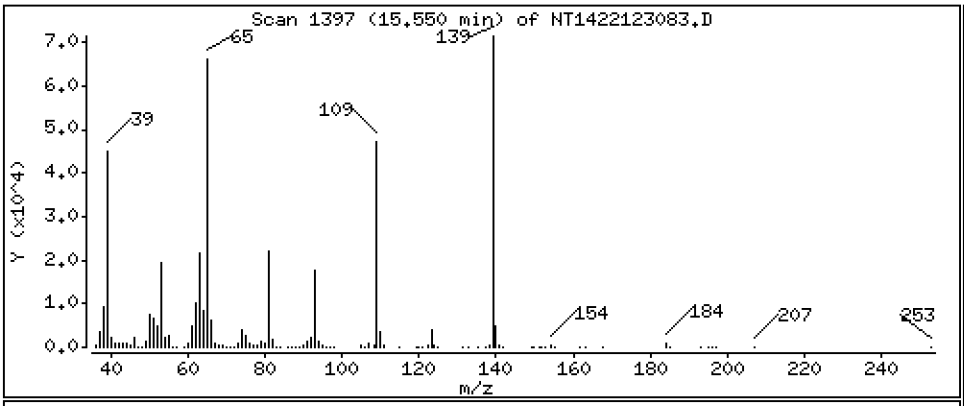
Operator: VTS

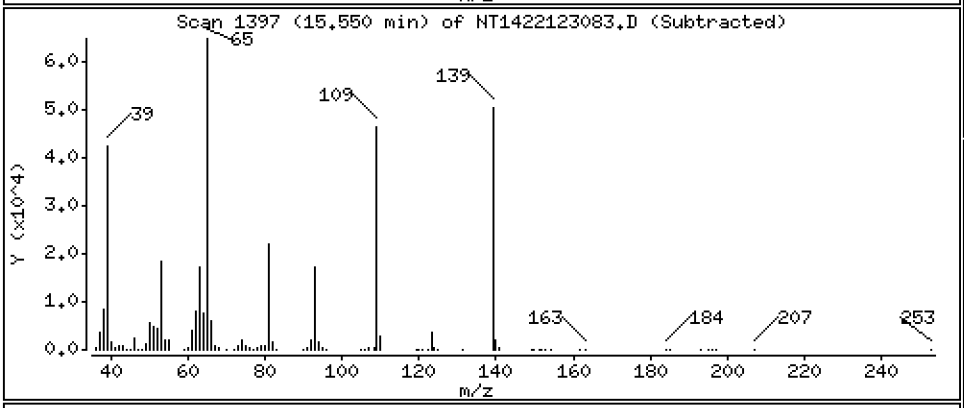
Column phase: ZB-5msi

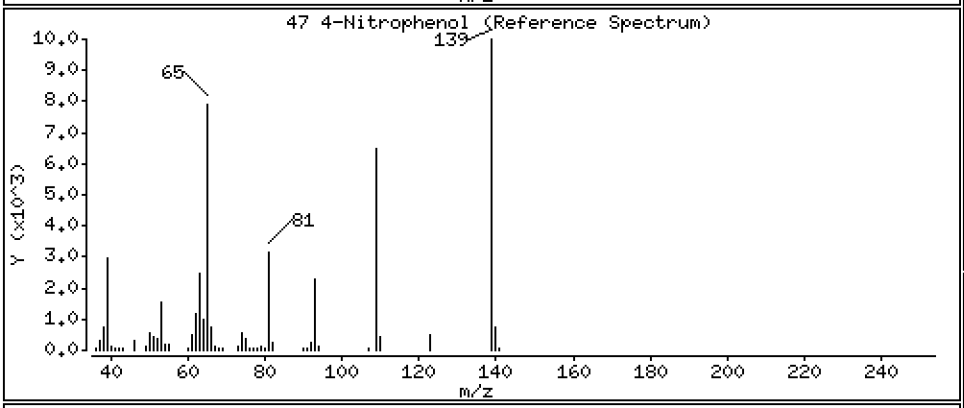
Column diameter: 0.25

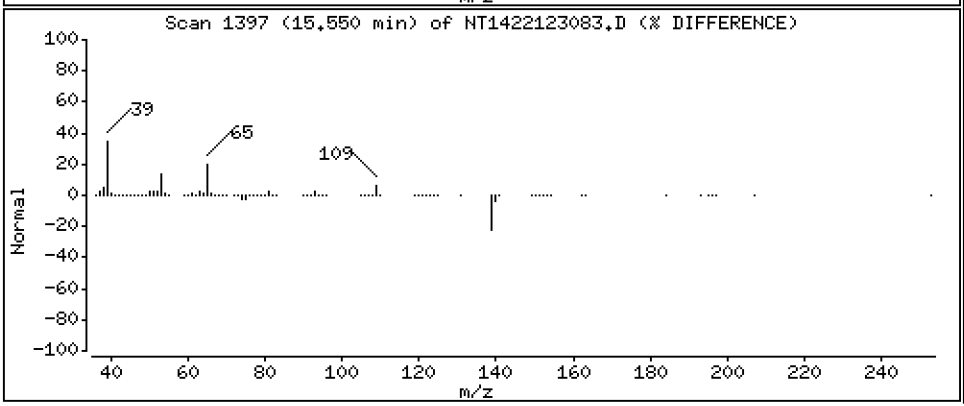
47 4-Nitrophenol

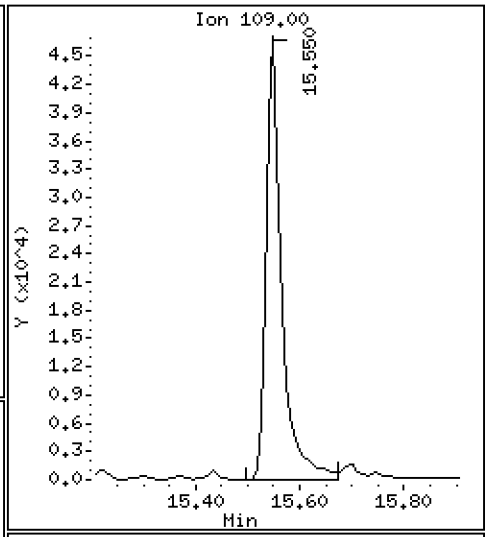
Concentration: 9.201 ug/mL

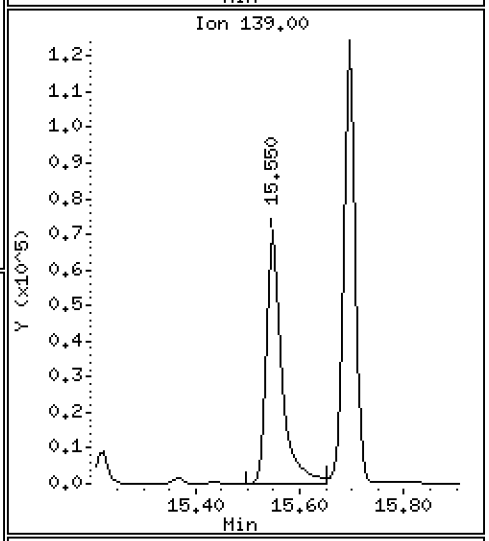


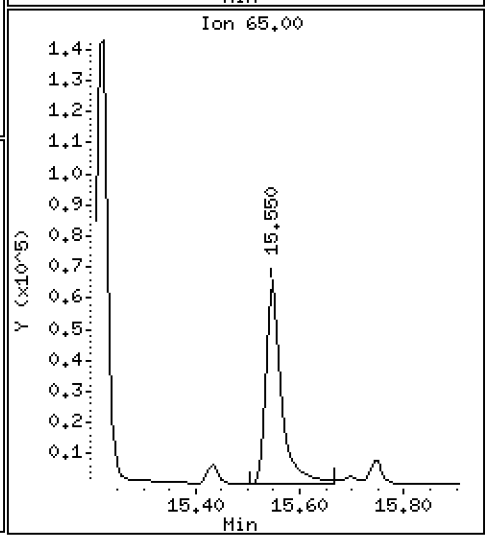












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

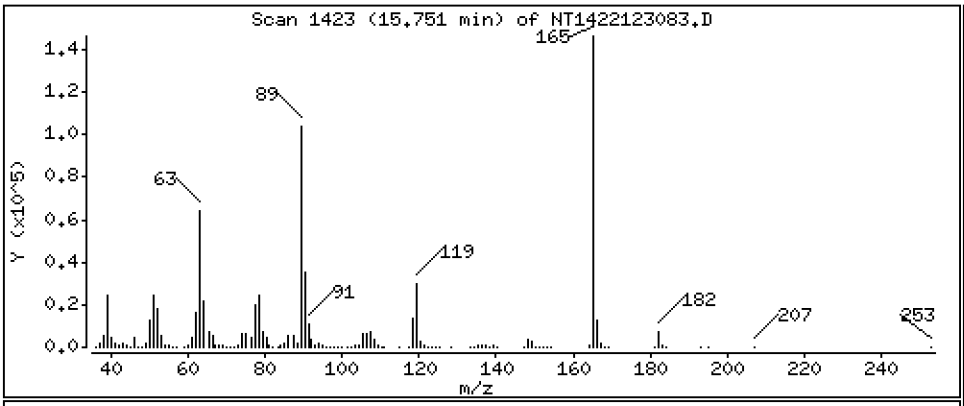
Operator: VTS

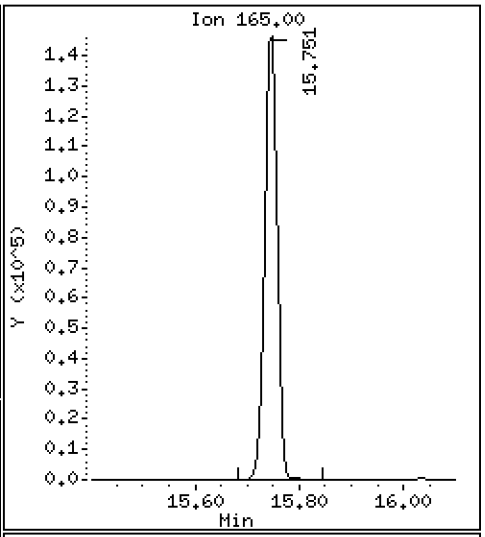
Column phase: ZB-5msi

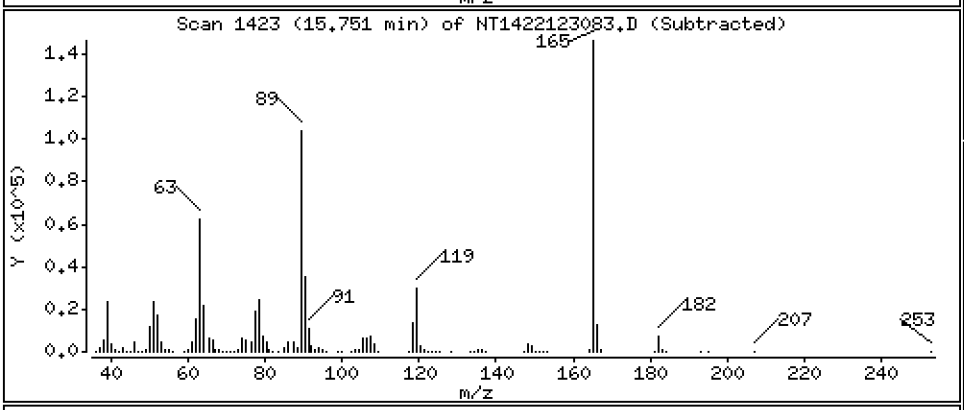
Column diameter: 0.25

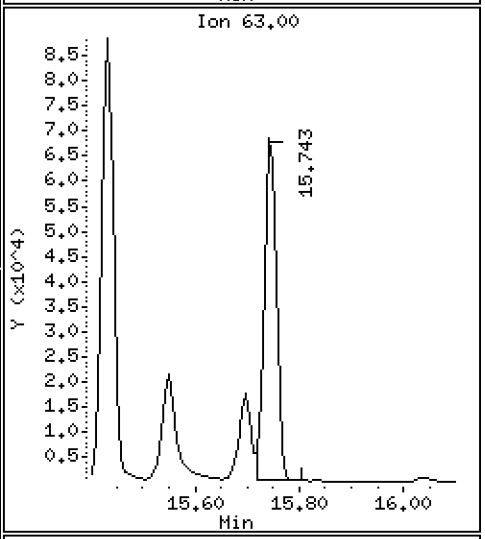
48 2,4-Dinitrotoluene

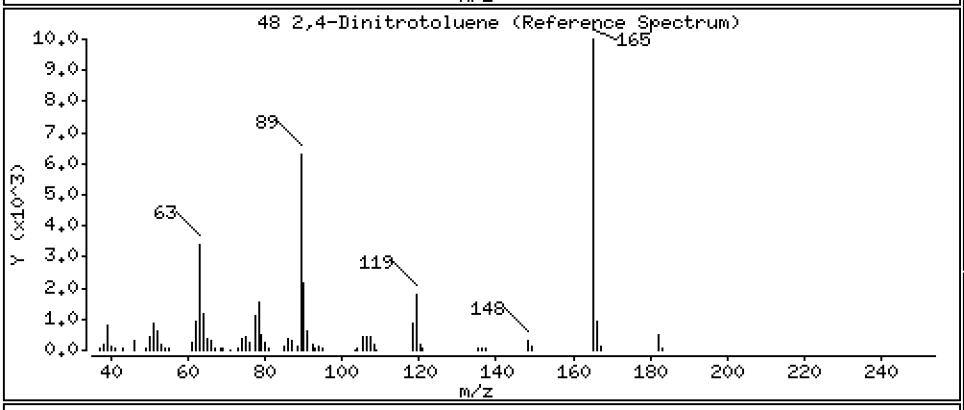
Concentration: 9.872 ug/mL

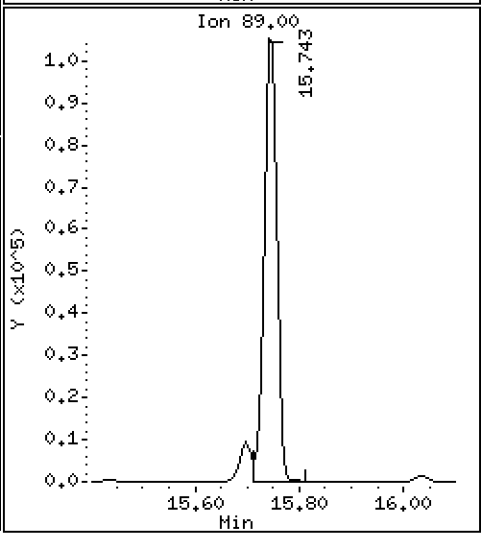


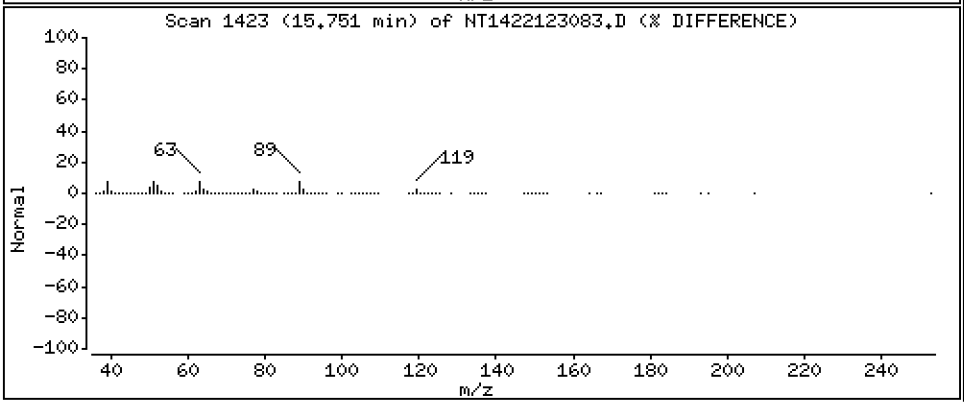












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

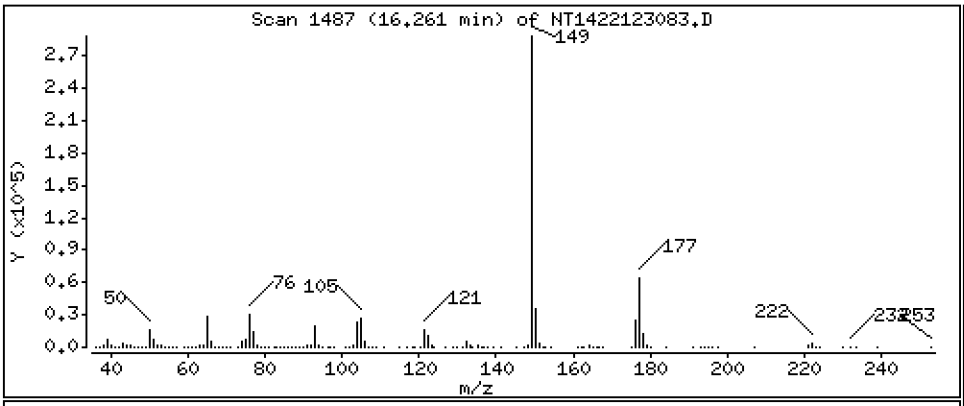
Operator: VTS

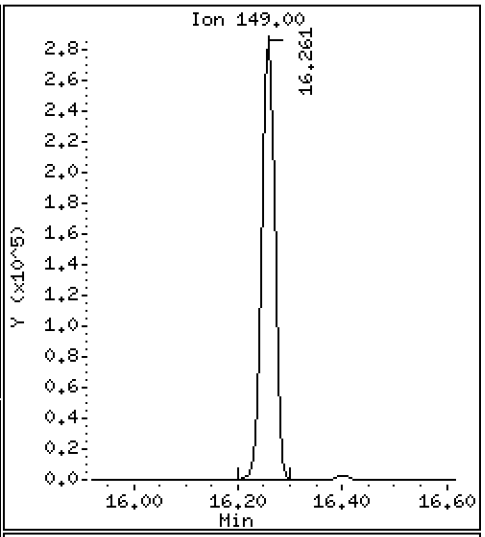
Column phase: ZB-5msi

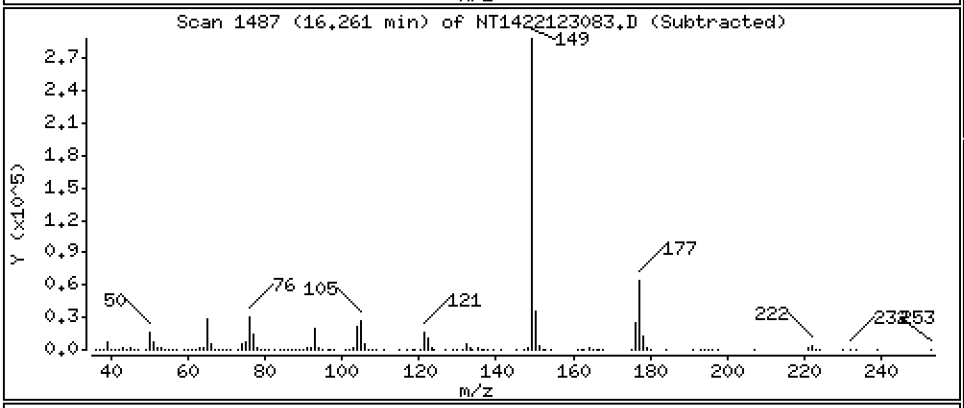
Column diameter: 0.25

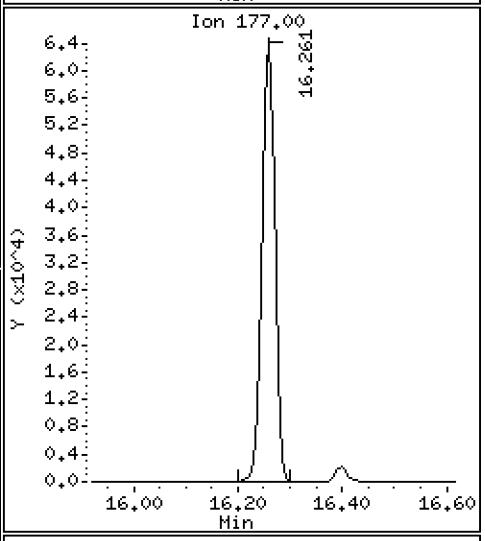
50 Diethylphthalate

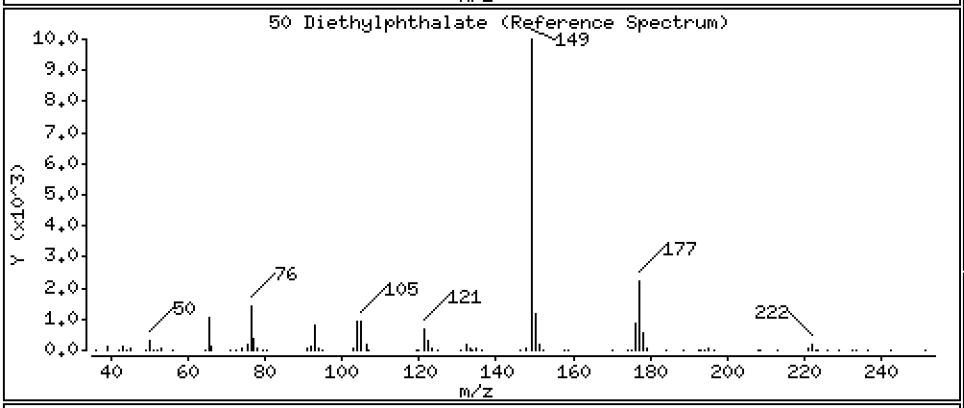
Concentration: 5.374 ug/mL

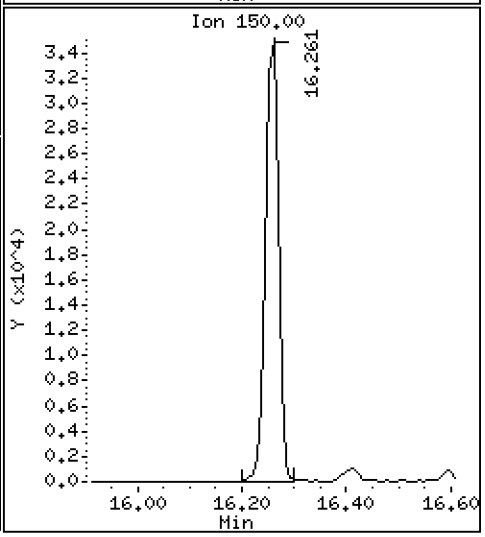


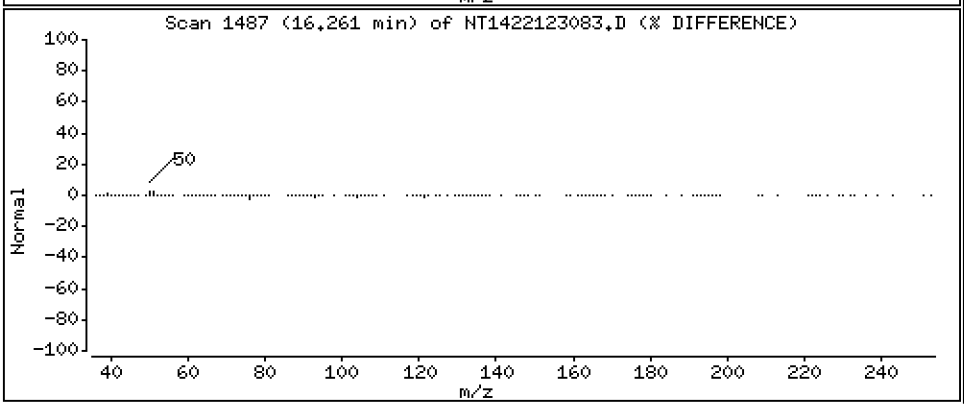












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

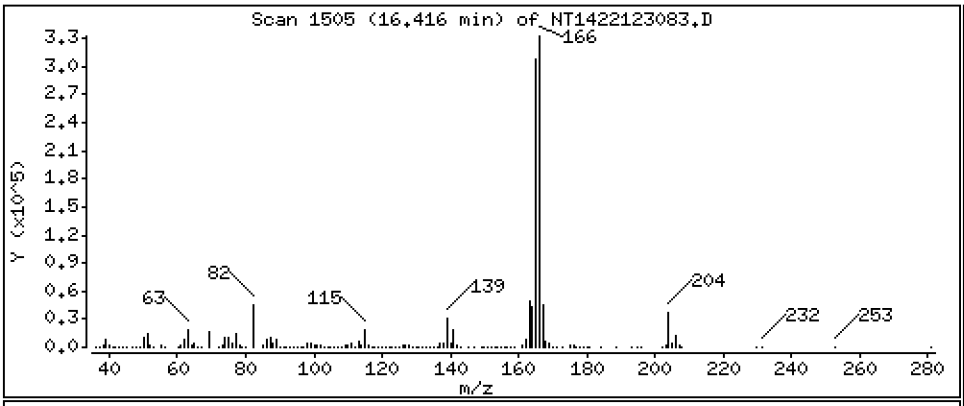
Operator: VTS

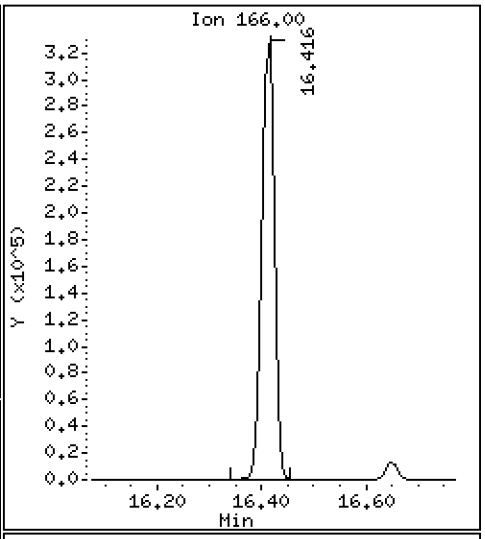
Column phase: ZB-5msi

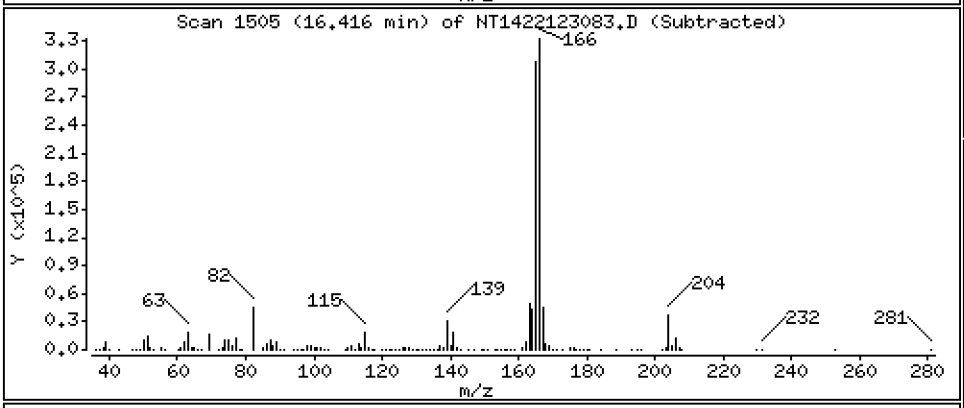
Column diameter: 0.25

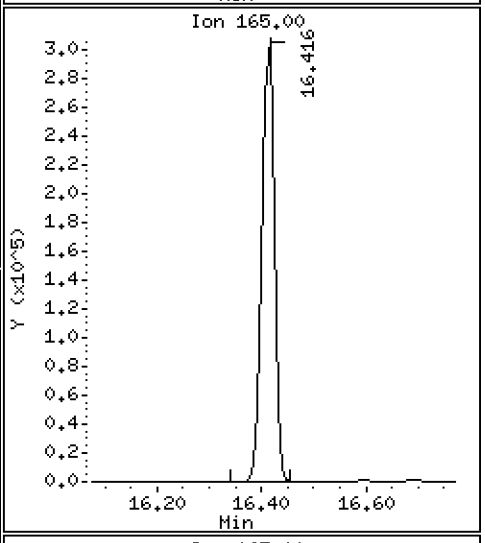
49 Fluorene

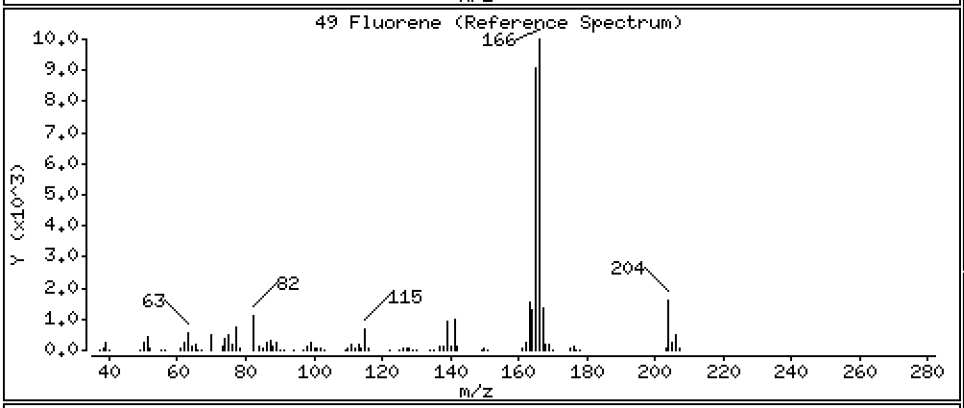
Concentration: 5.123 ug/mL

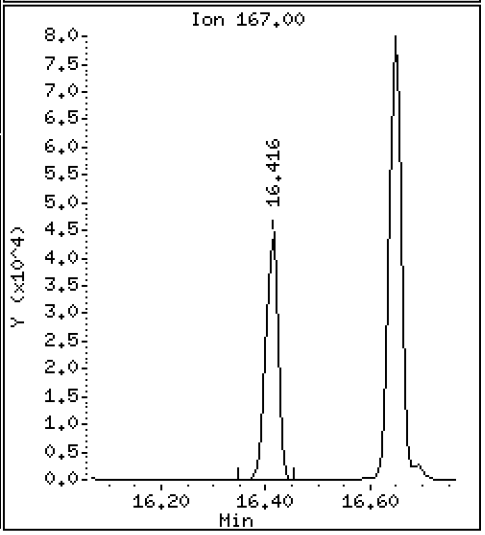


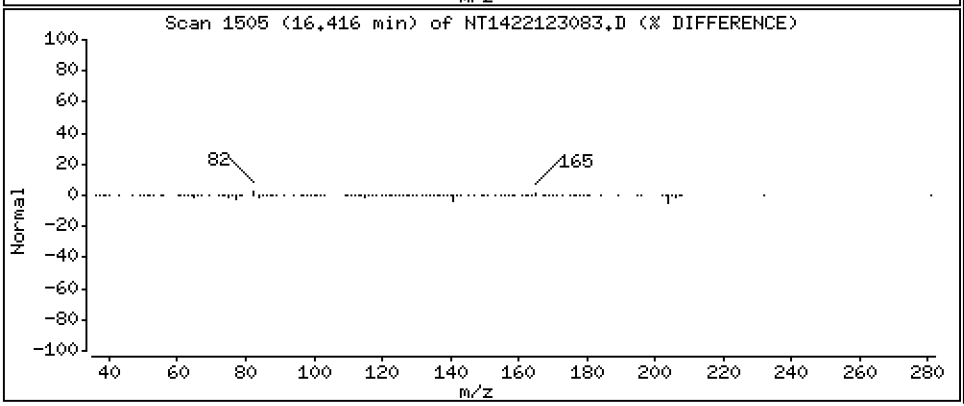












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

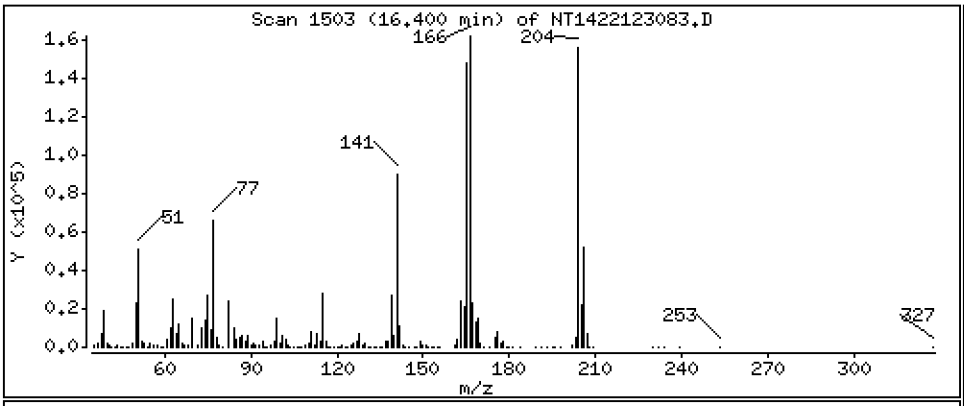
Operator: VTS

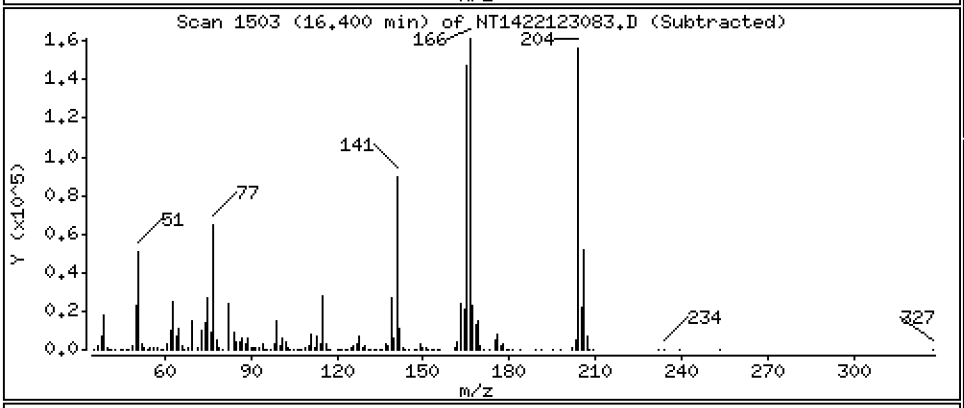
Column phase: ZB-5msi

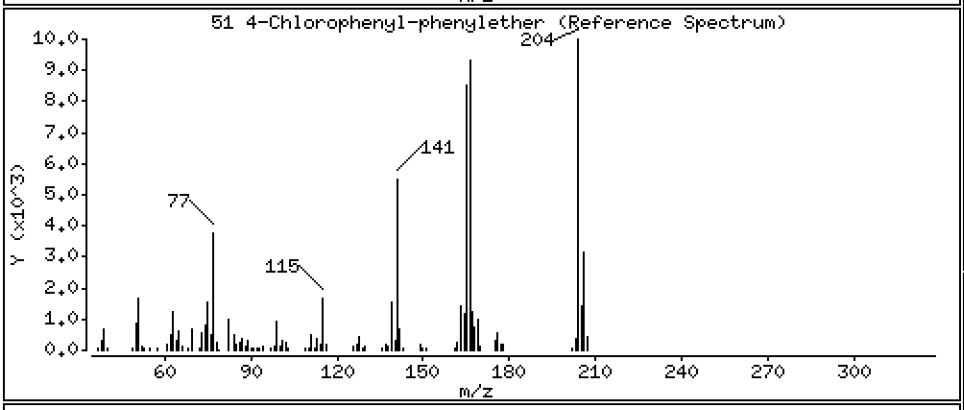
Column diameter: 0.25

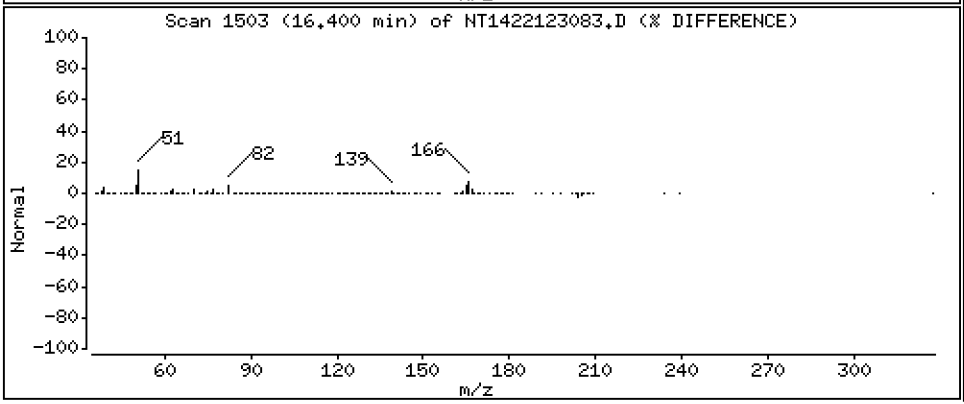
51 4-Chlorophenyl-phenylether

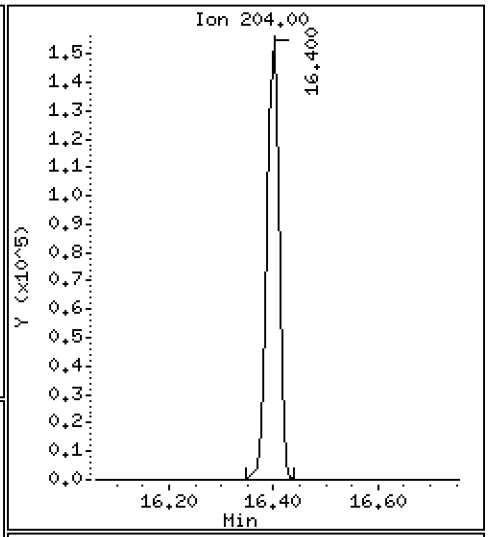
Concentration: 4.919 ug/mL

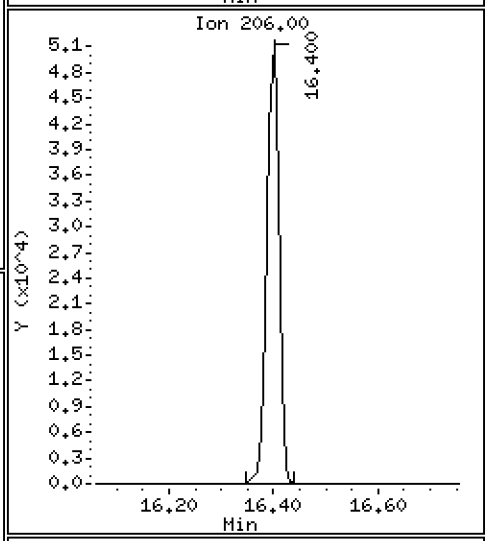


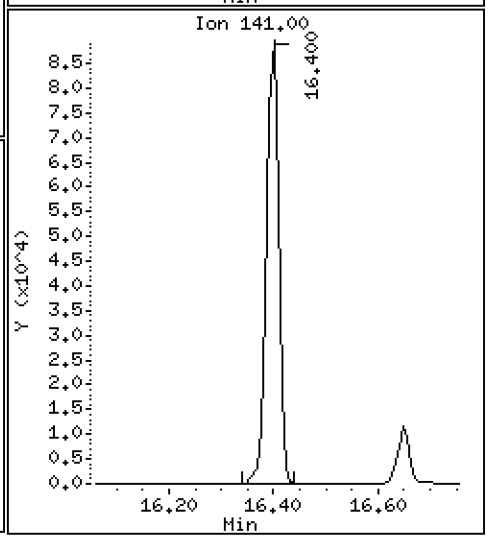












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

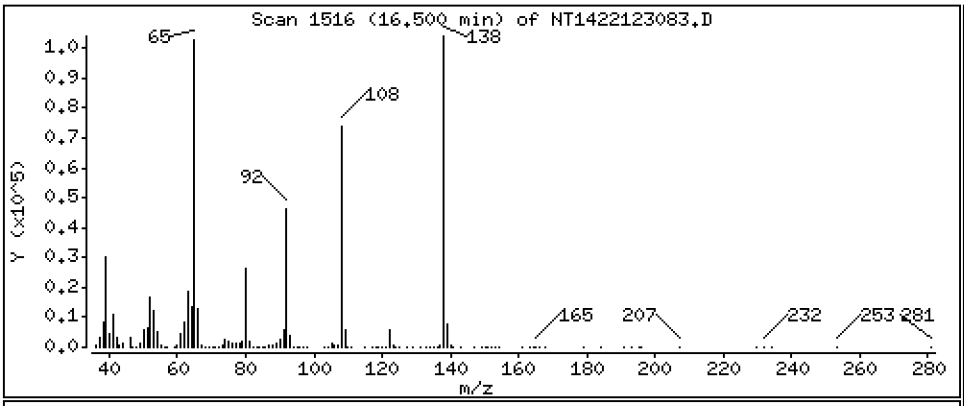
Operator: VTS

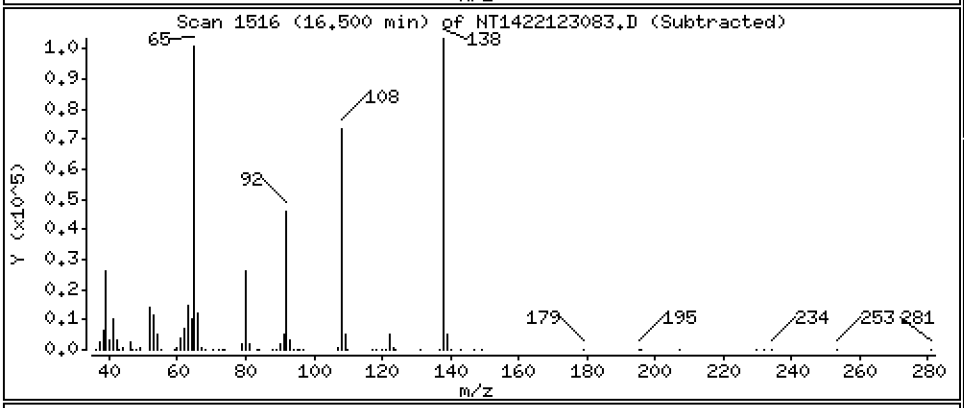
Column phase: ZB-5msi

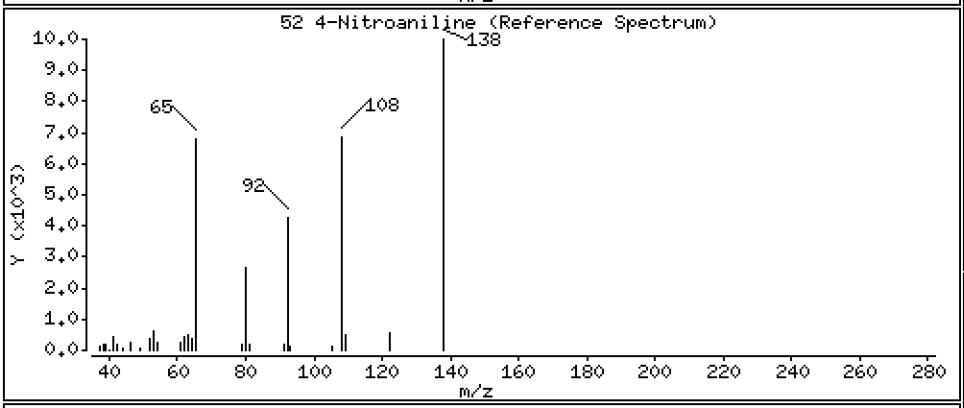
Column diameter: 0.25

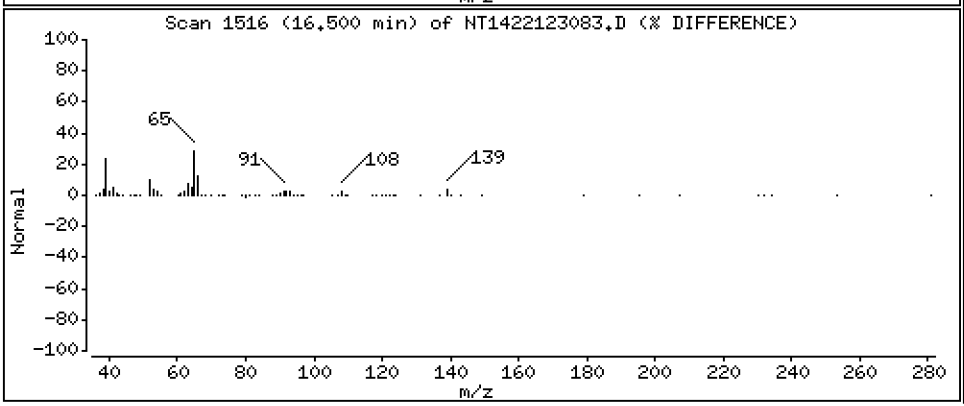
52 4-Nitroaniline

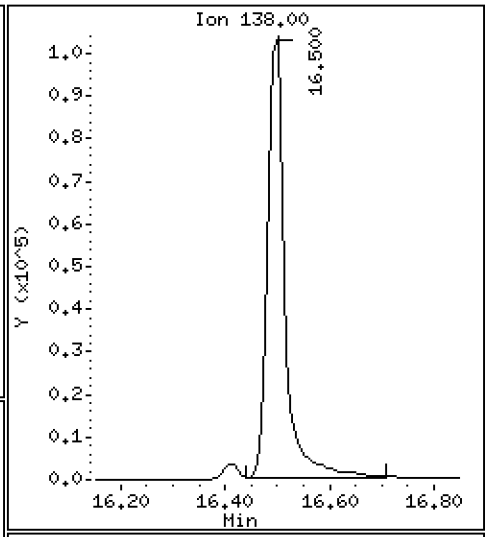
Concentration: 9.003 ug/mL

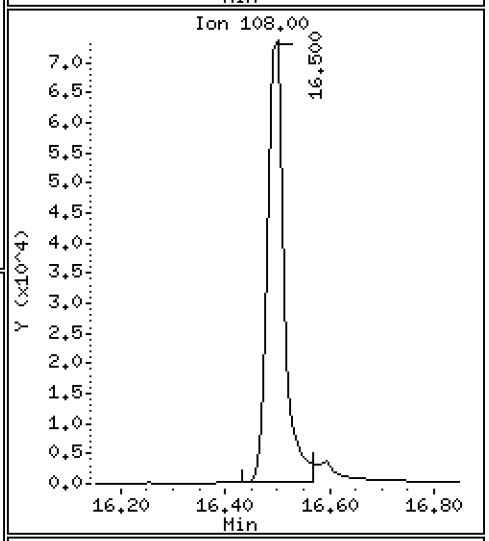


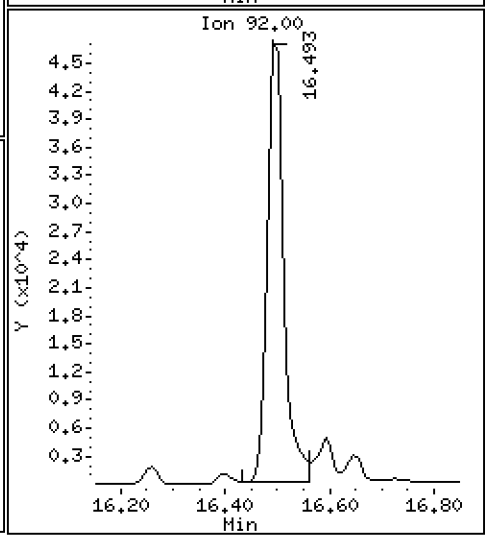












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

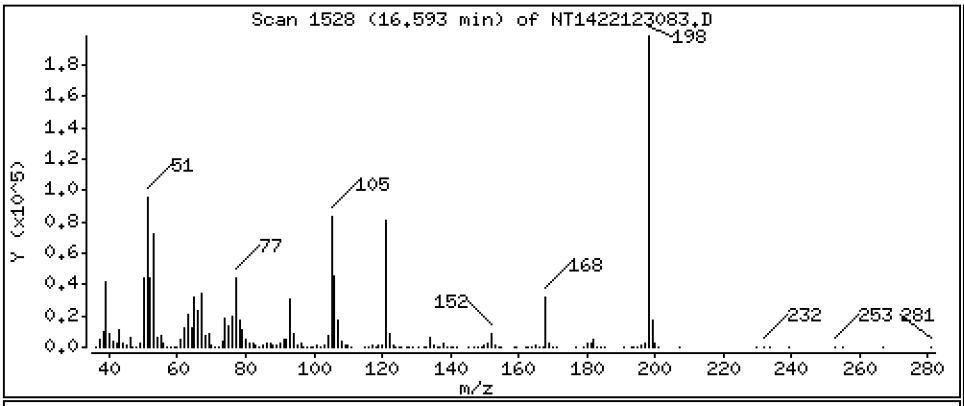
Operator: VTS

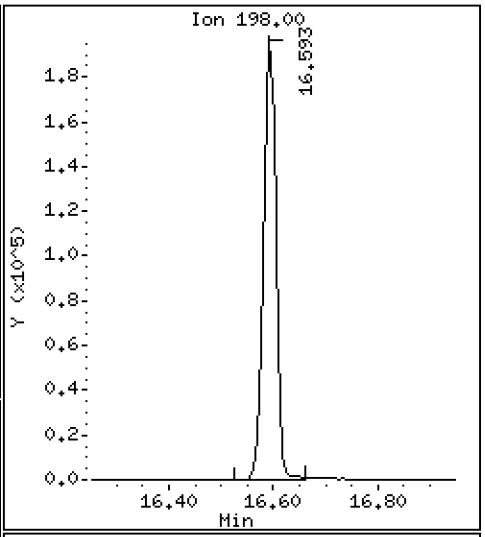
Column phase: ZB-5msi

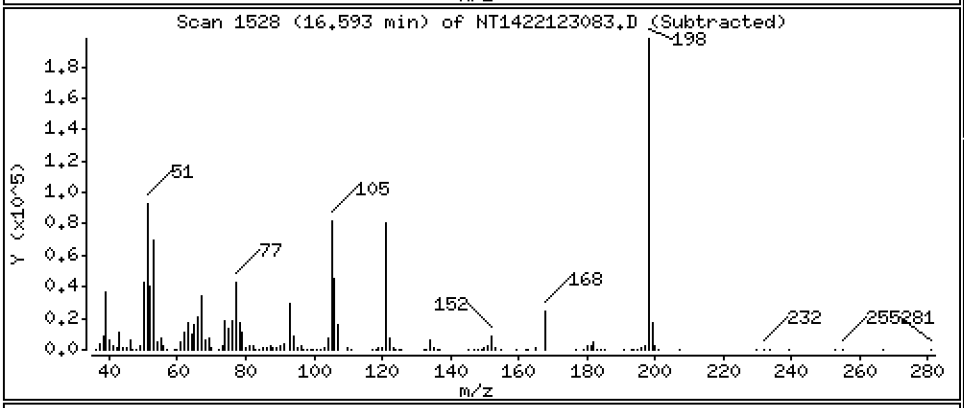
Column diameter: 0.25

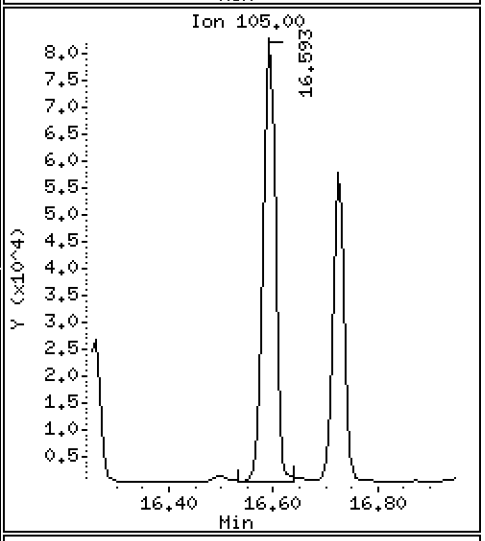
53 4,6-Dinitro-2-methylphenol

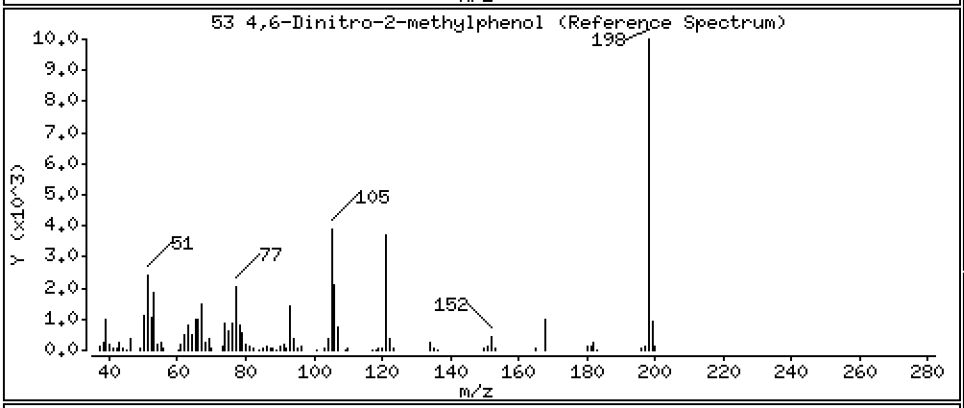
Concentration: 16.46 ug/mL

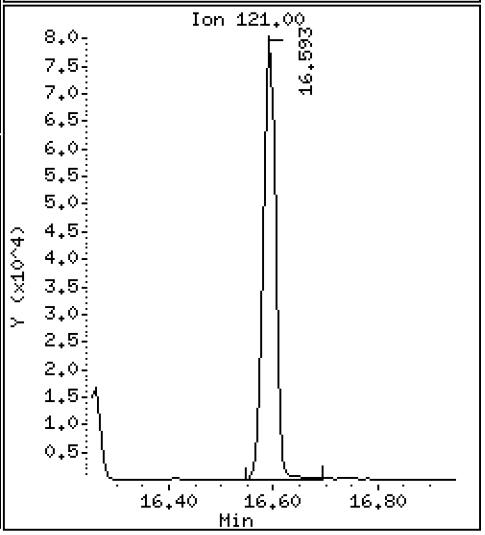


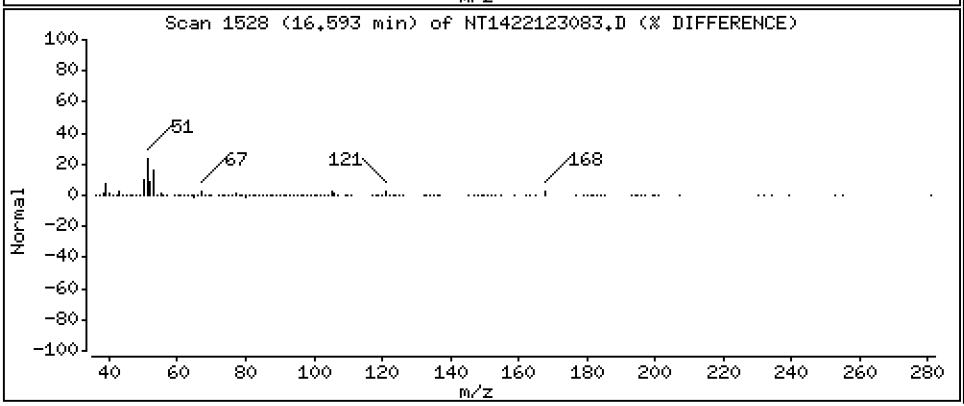












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

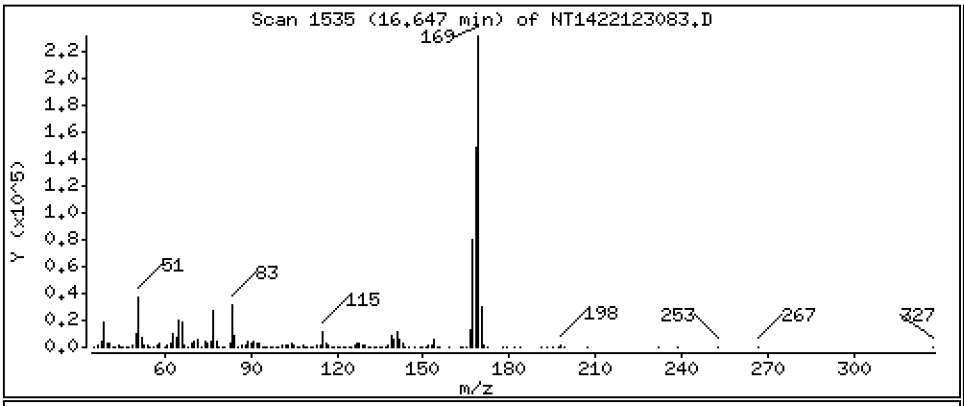
Operator: VTS

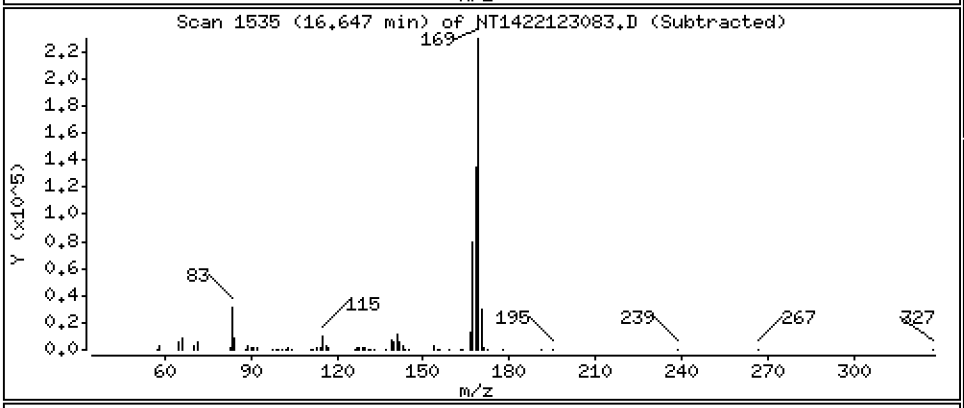
Column phase: ZB-5msi

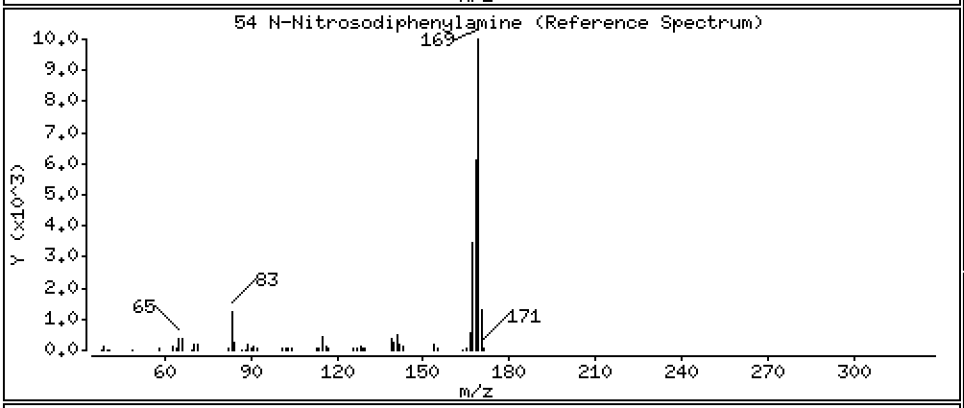
Column diameter: 0.25

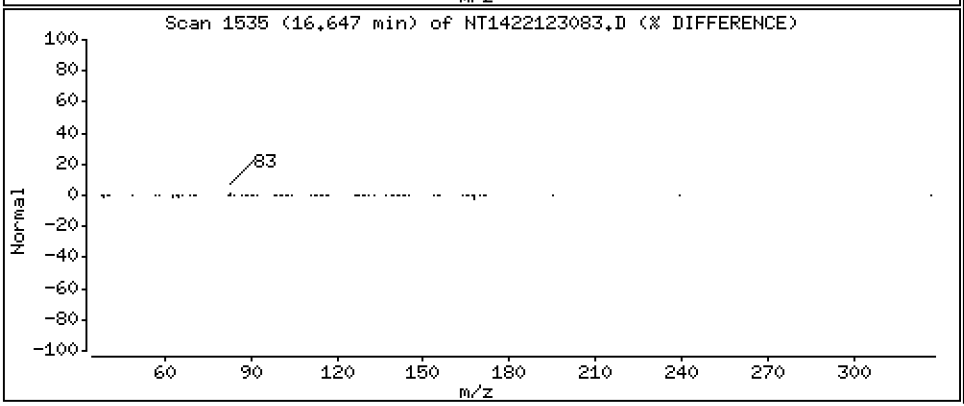
54 N-Nitrosodiphenylamine

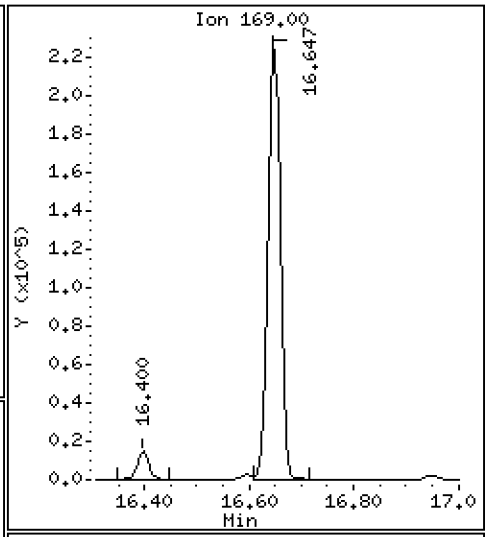
Concentration: 4.800 ug/mL

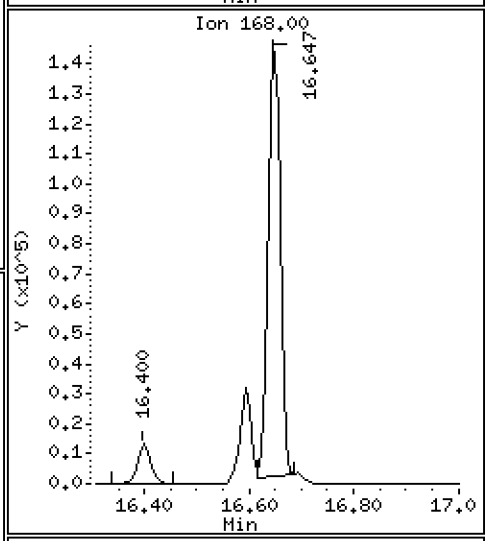


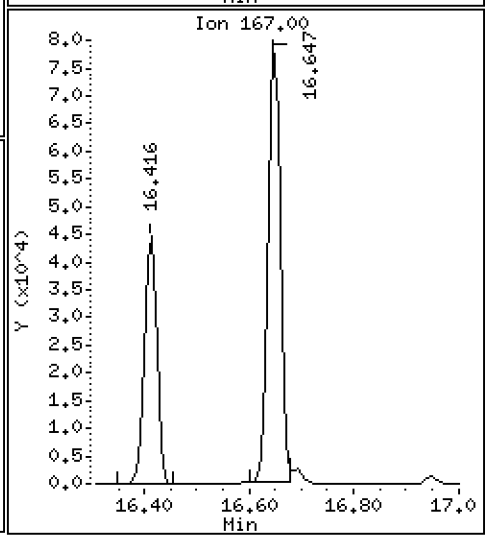












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D

Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

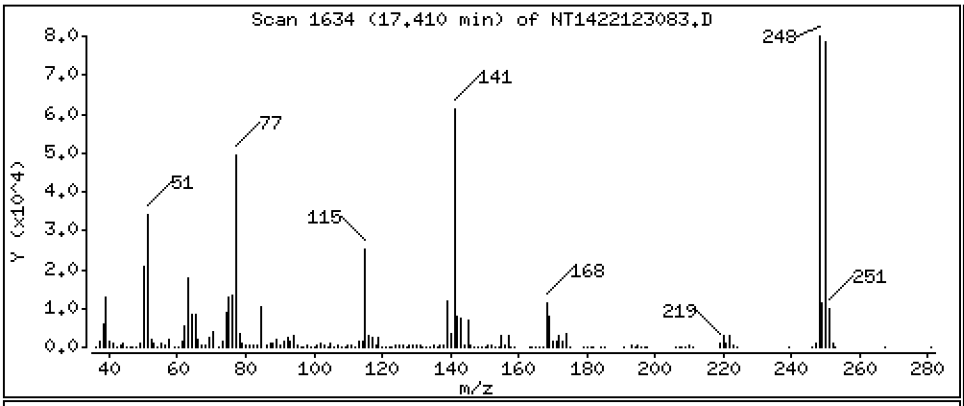
Operator: VTS

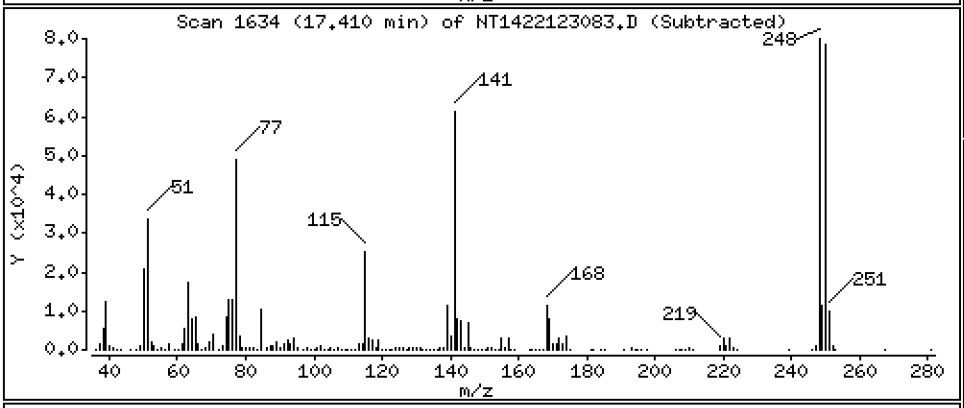
Column phase: ZB-5msi

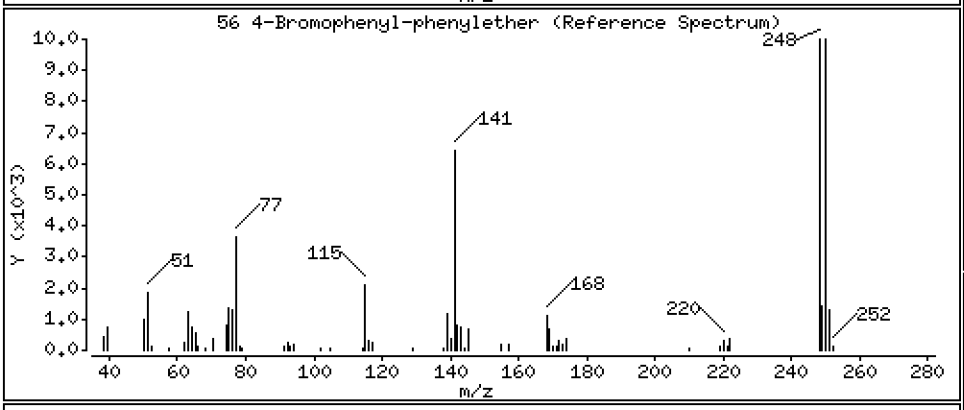
Column diameter: 0.25

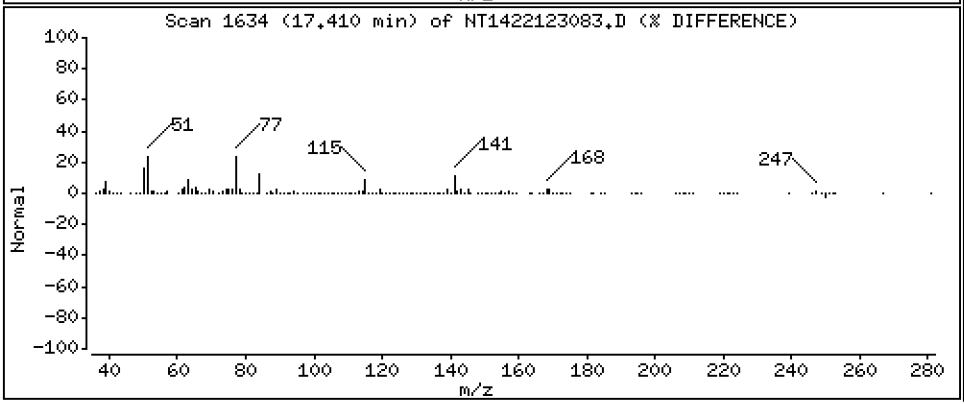
56 4-Bromophenyl-phenylether

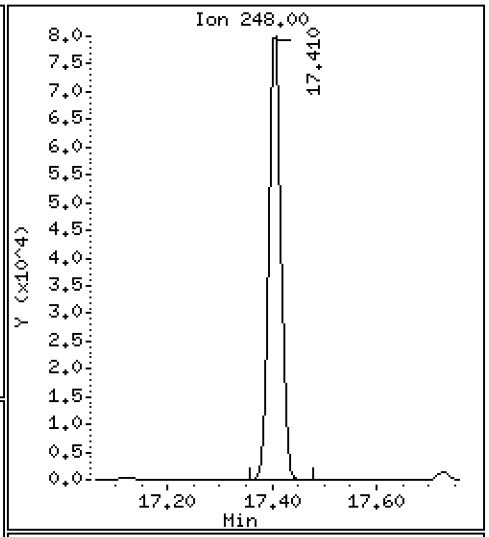
Concentration: 4.724 ug/mL

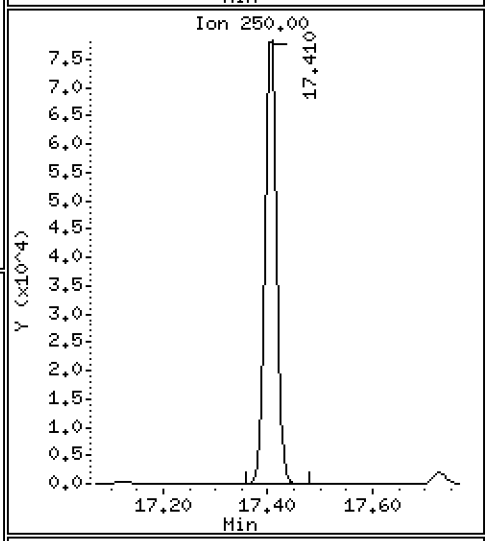


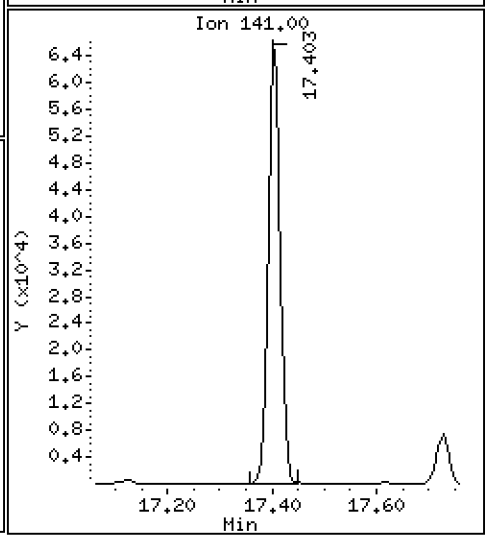












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

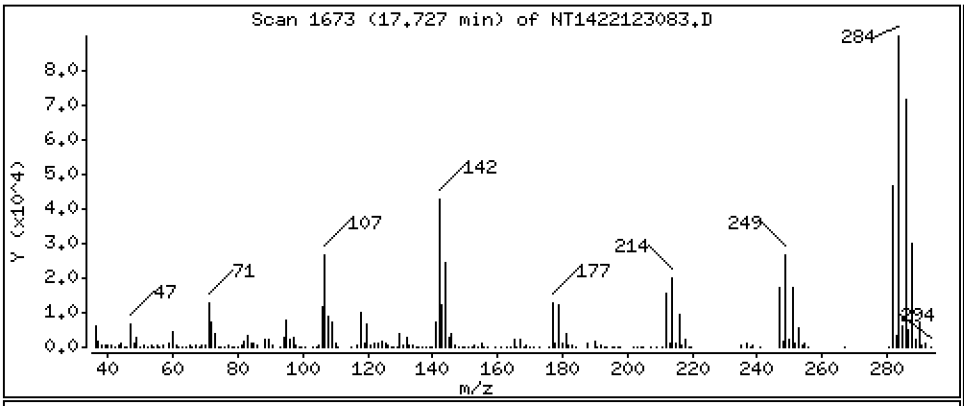
Operator: VTS

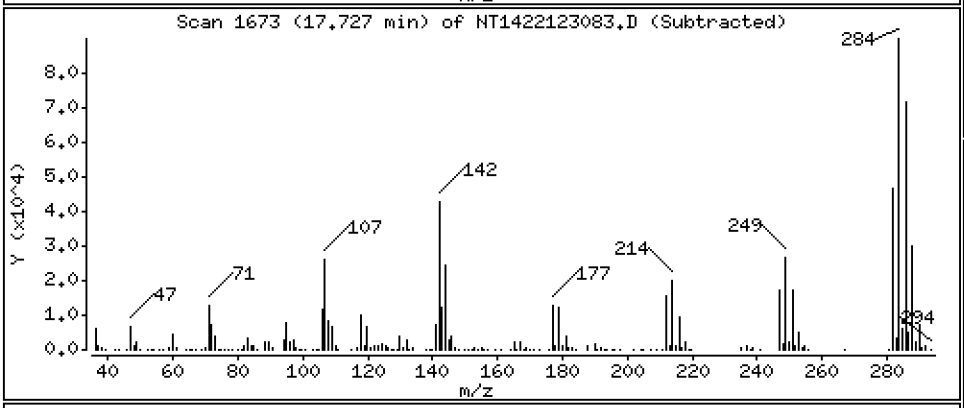
Column phase: ZB-5msi

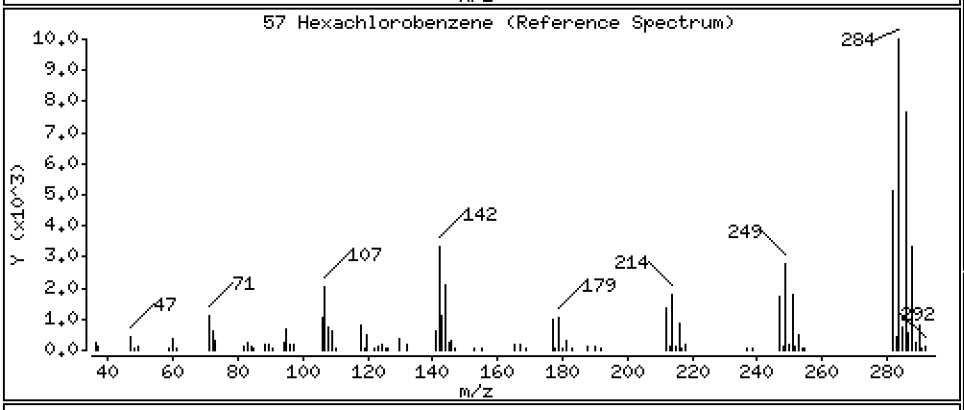
Column diameter: 0.25

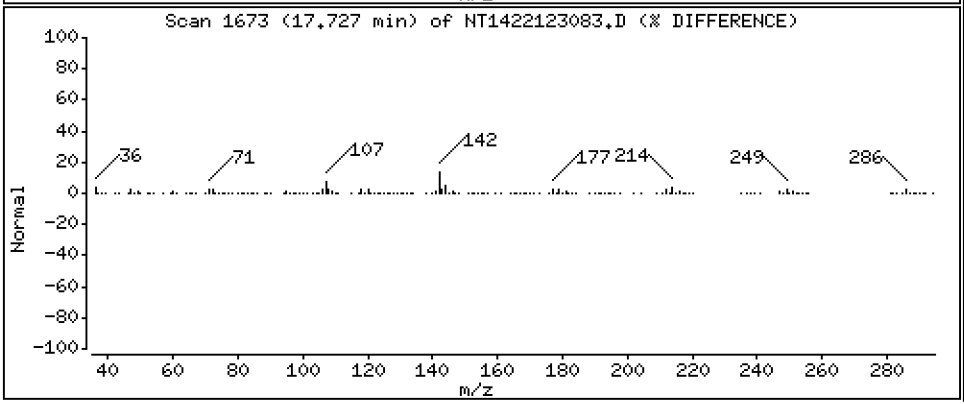
57 Hexachlorobenzene

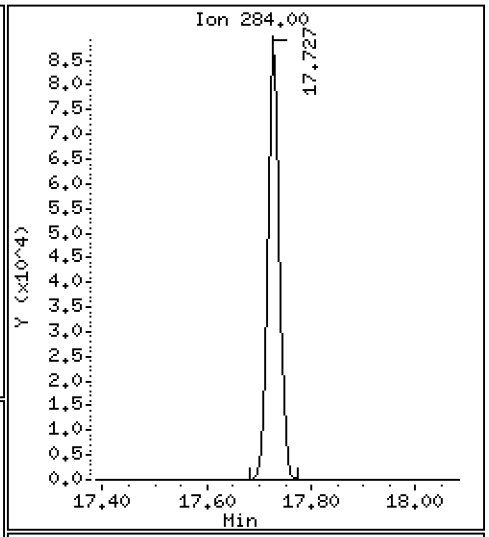
Concentration: 4.553 ug/mL

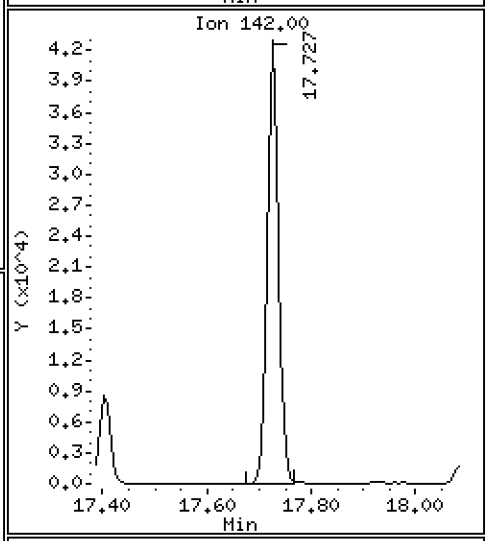


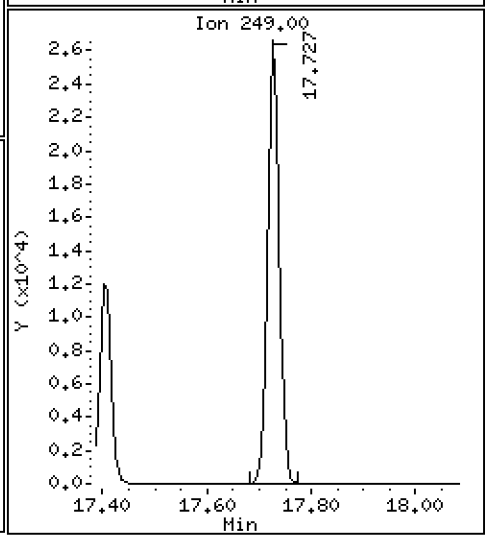












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

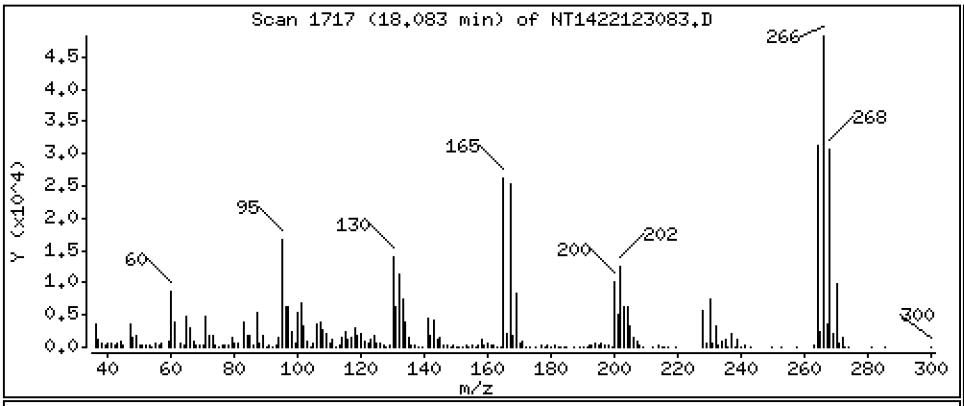
Operator: VTS

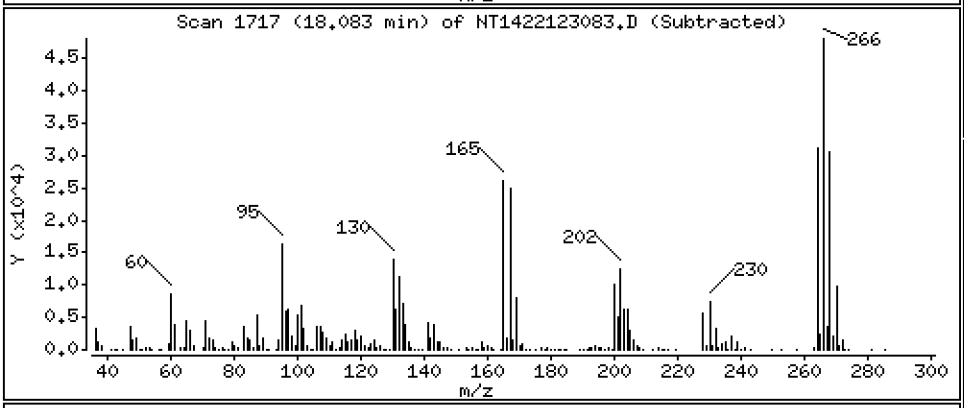
Column phase: ZB-5msi

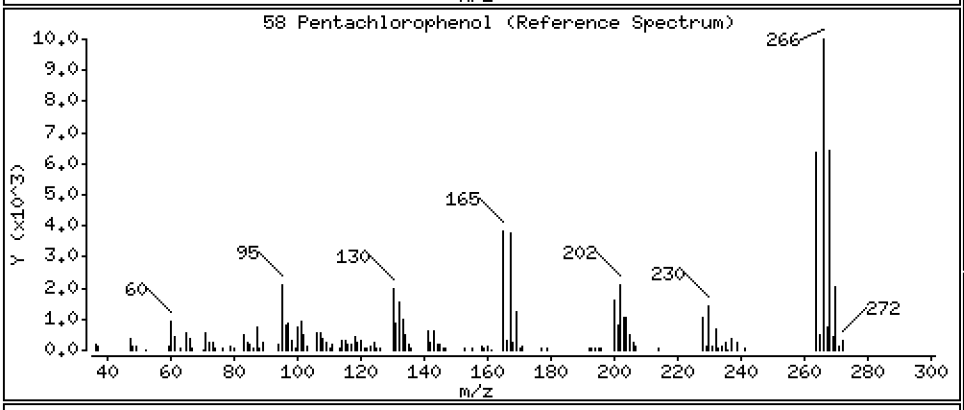
Column diameter: 0.25

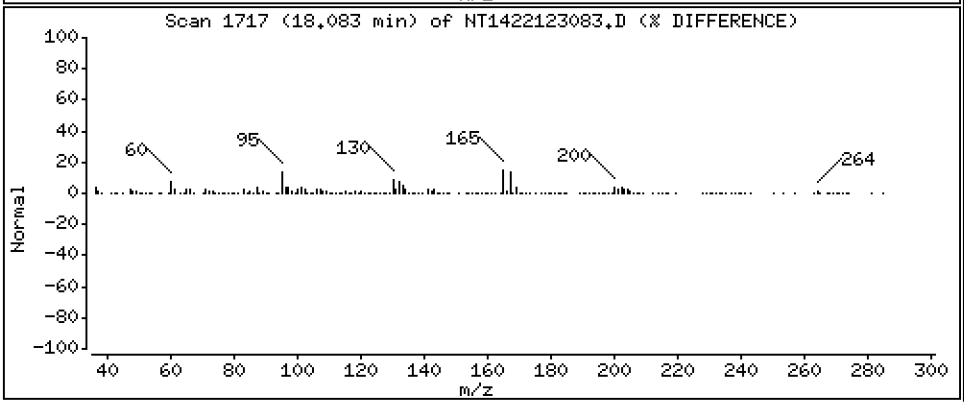
58 Pentachlorophenol

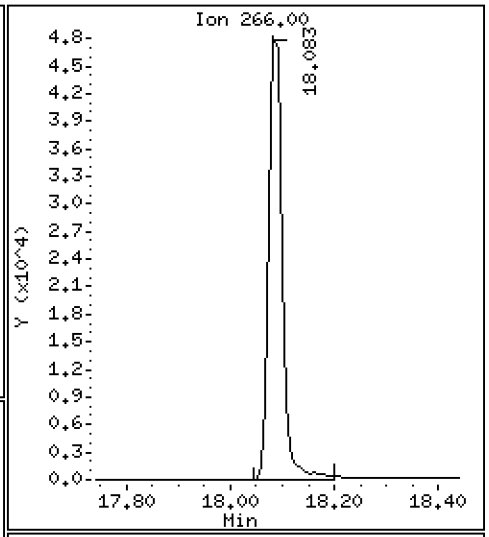
Concentration: 6.130 ug/mL

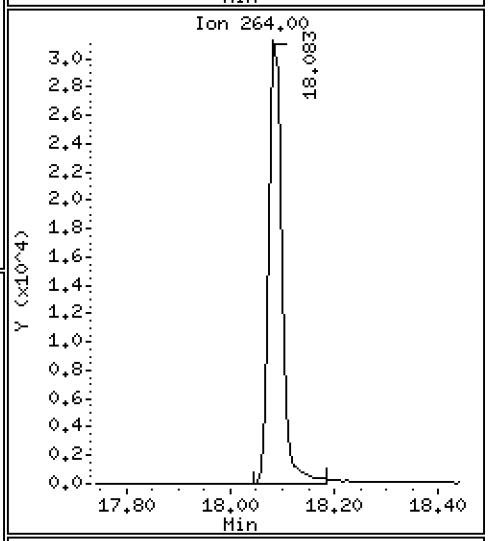


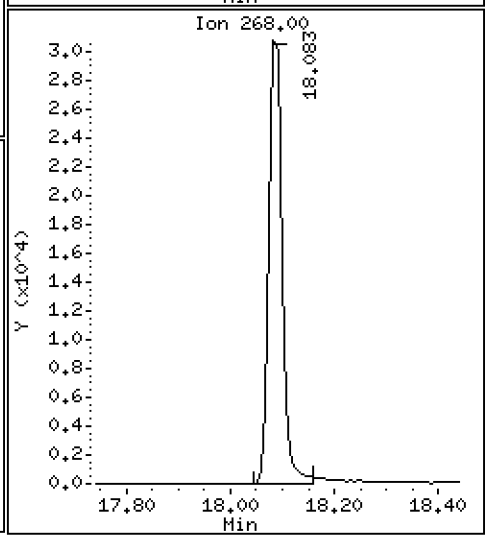












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

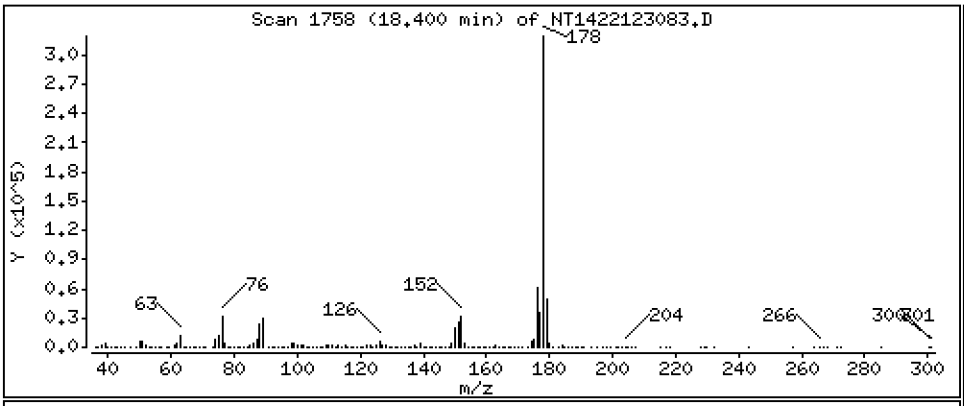
Operator: VTS

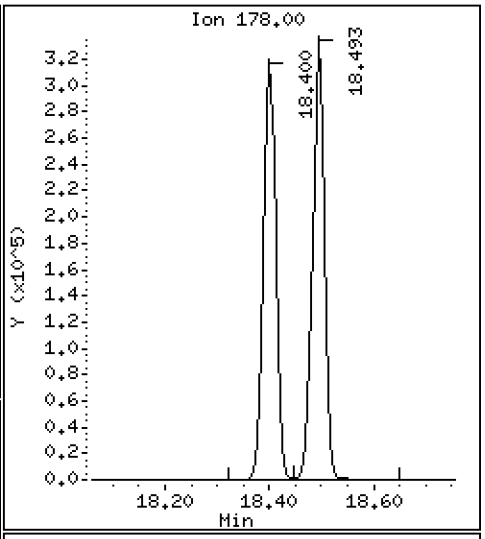
Column phase: ZB-5msi

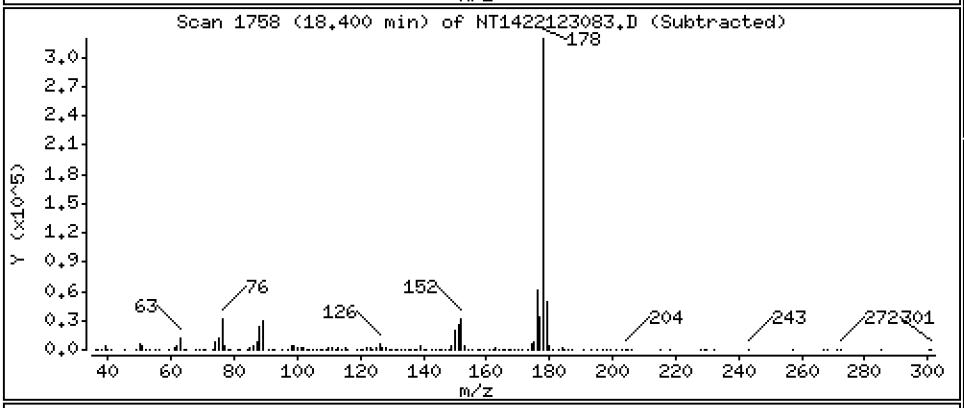
Column diameter: 0.25

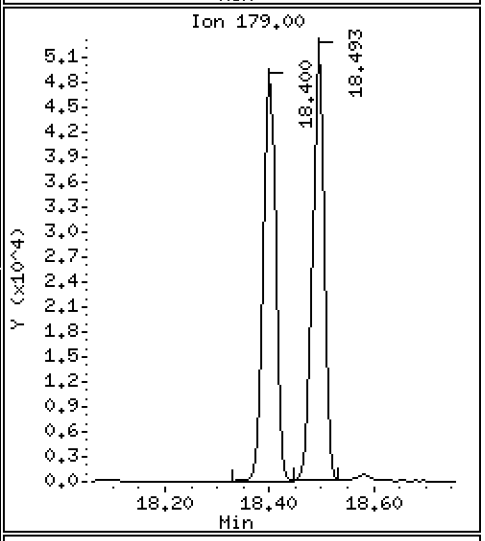
60 Phenanthrene

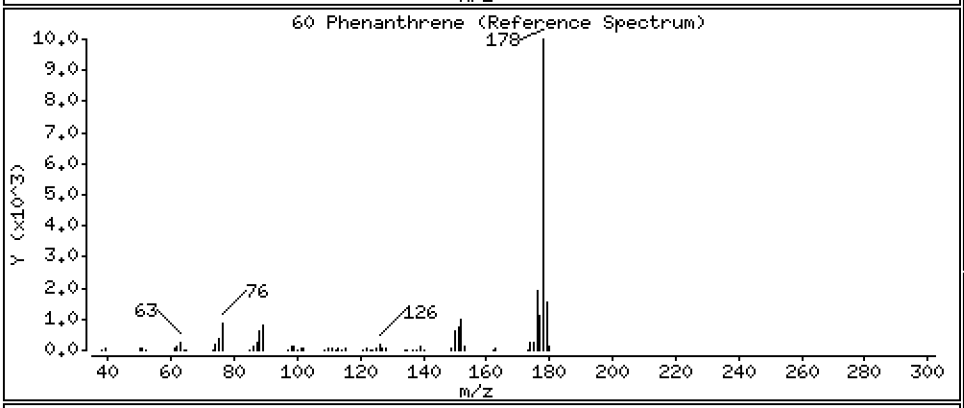
Concentration: 4.508 ug/mL

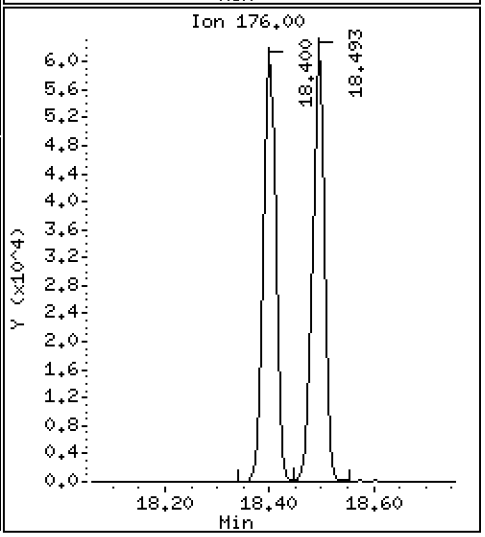


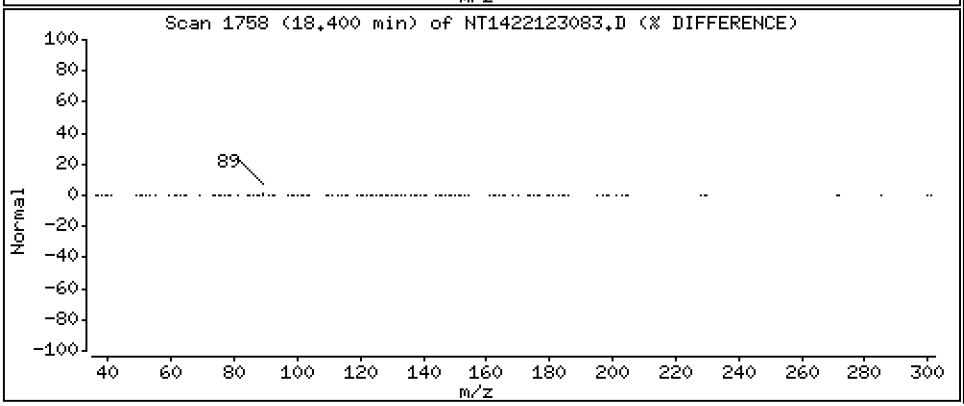












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

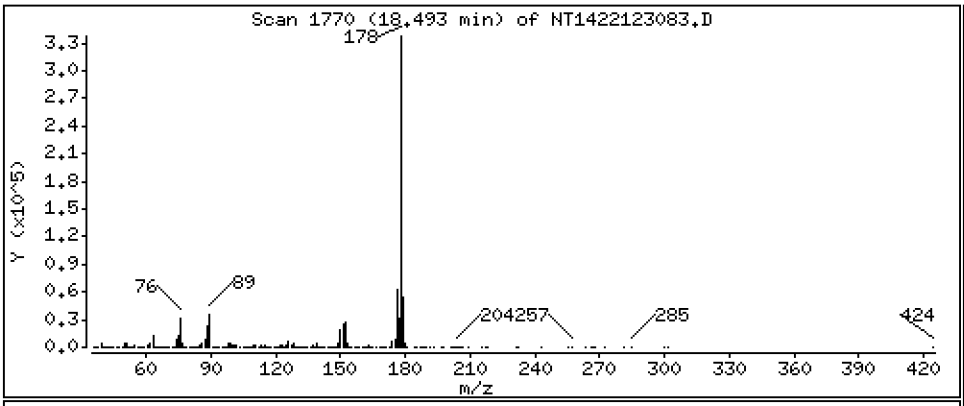
Operator: VTS

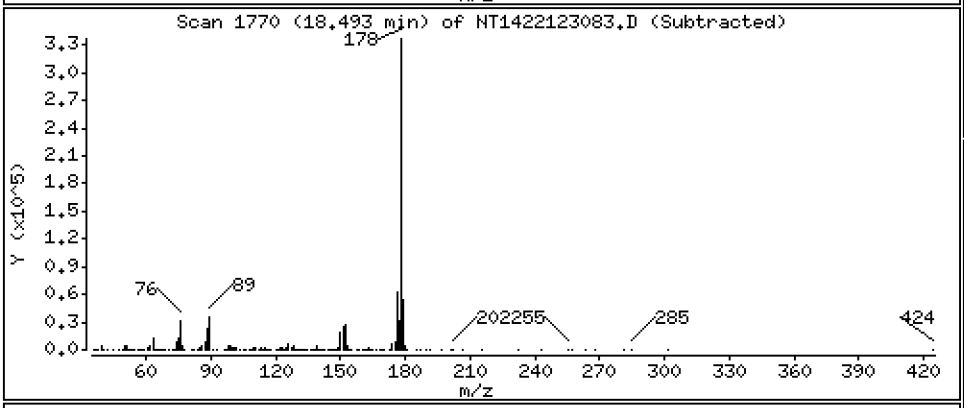
Column phase: ZB-5msi

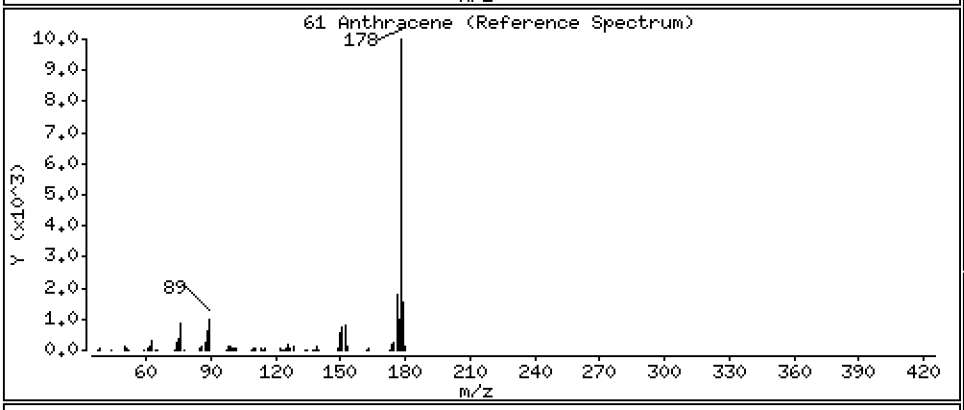
Column diameter: 0.25

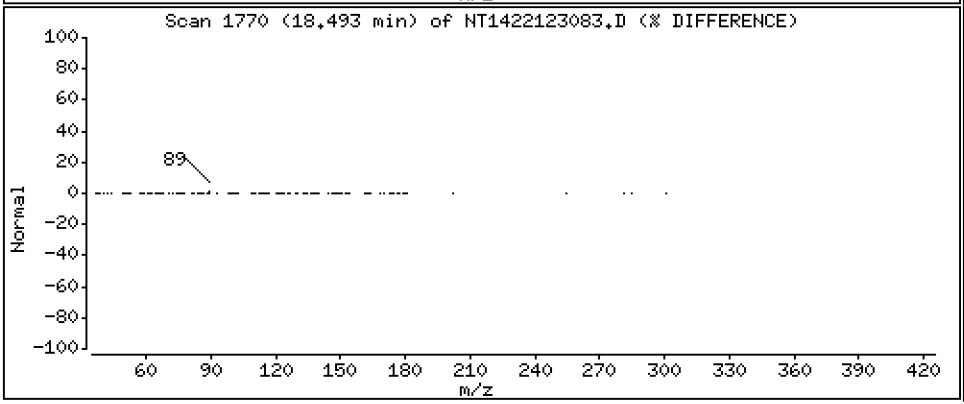
61 Anthracene

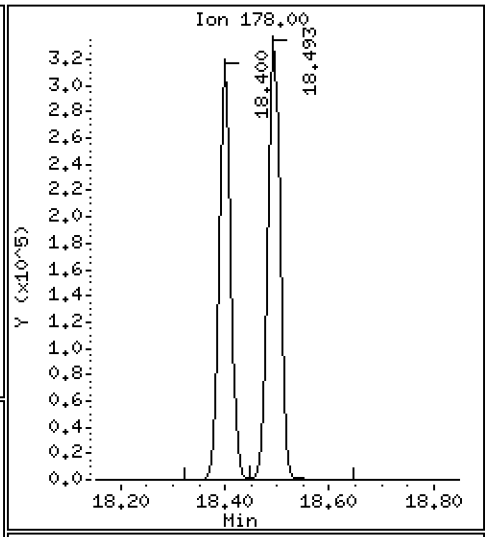
Concentration: 4.908 ug/mL

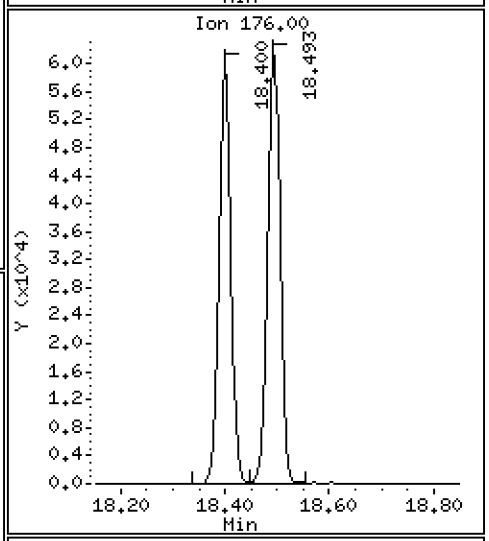


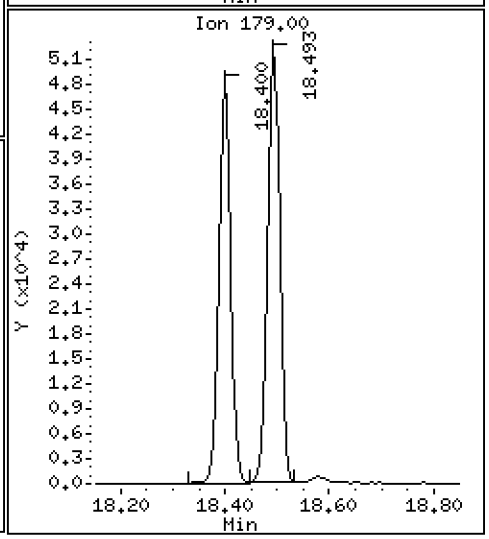












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

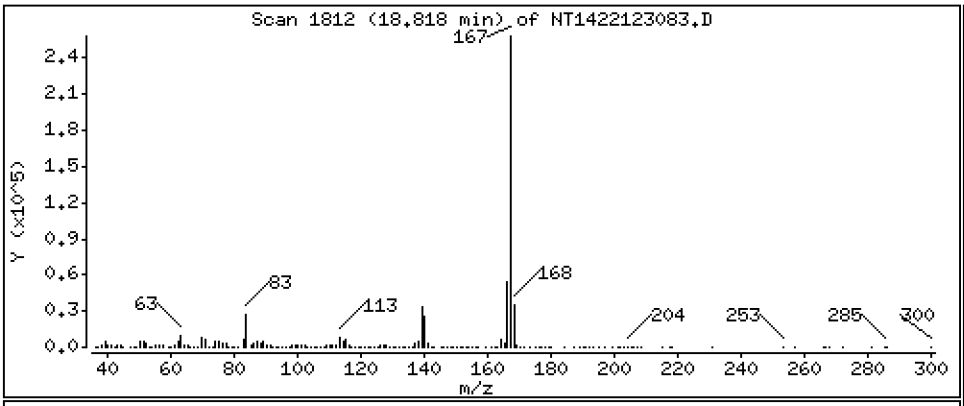
Operator: VTS

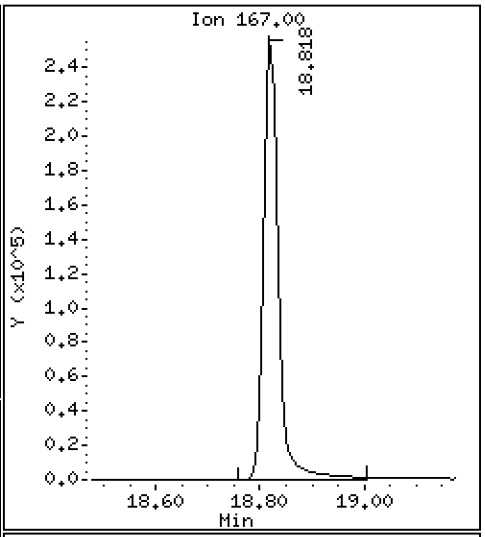
Column phase: ZB-5msi

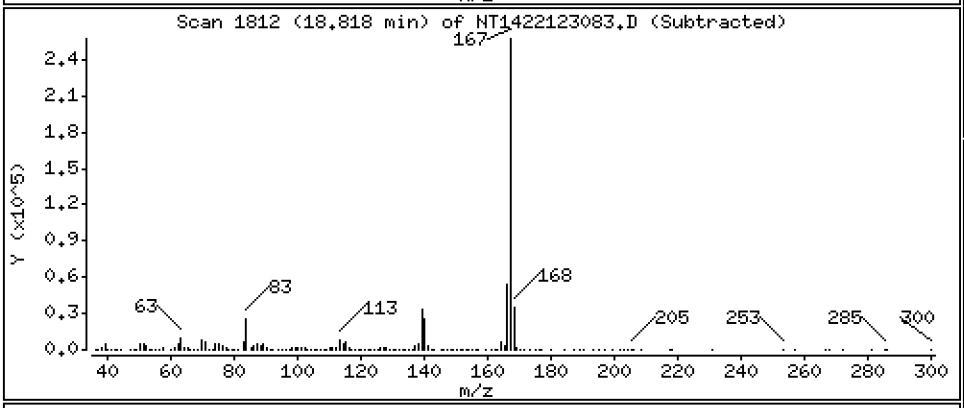
Column diameter: 0.25

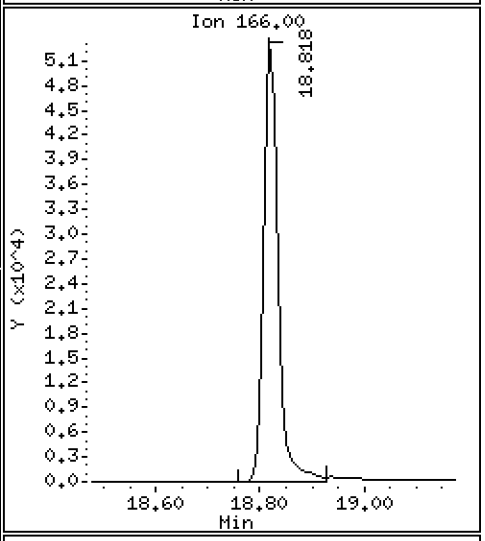
62 Carbazole

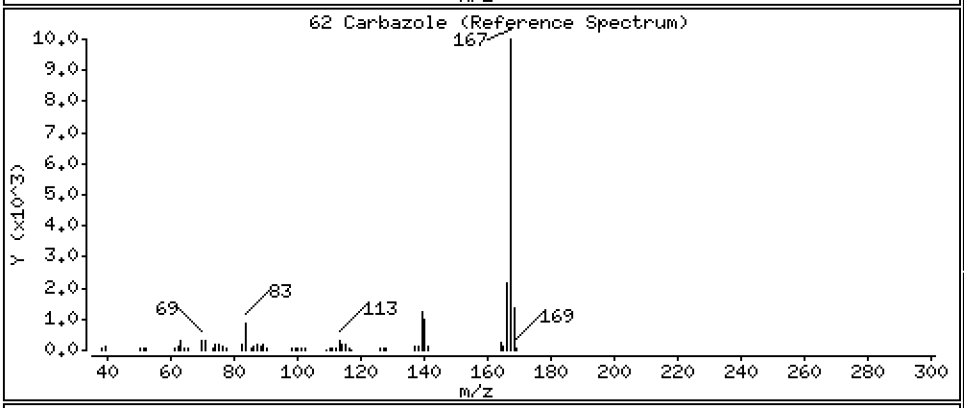
Concentration: 4.745 ug/mL

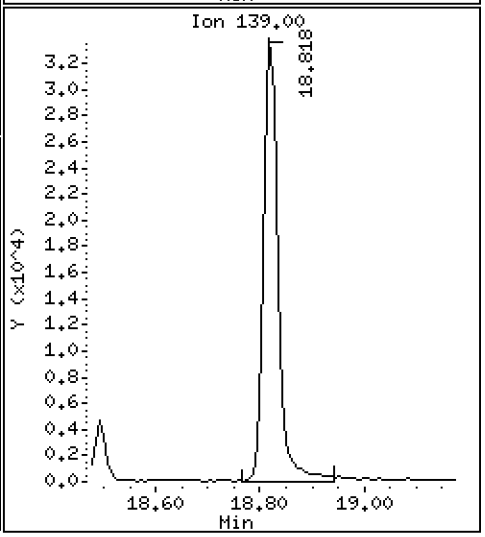


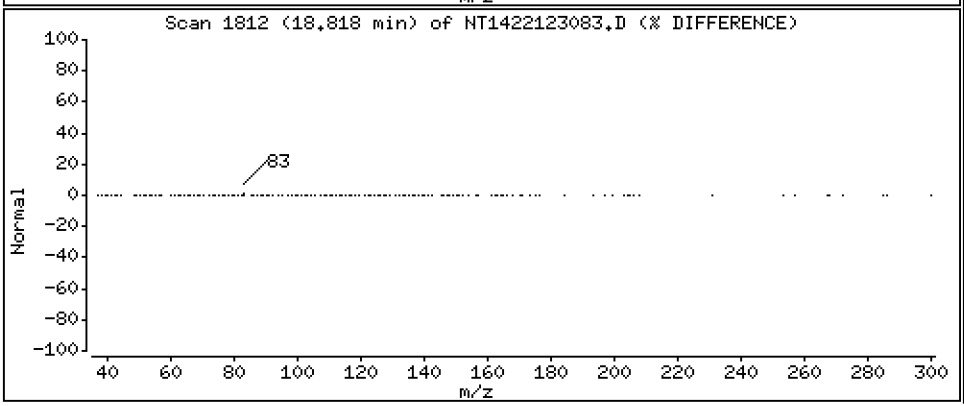












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

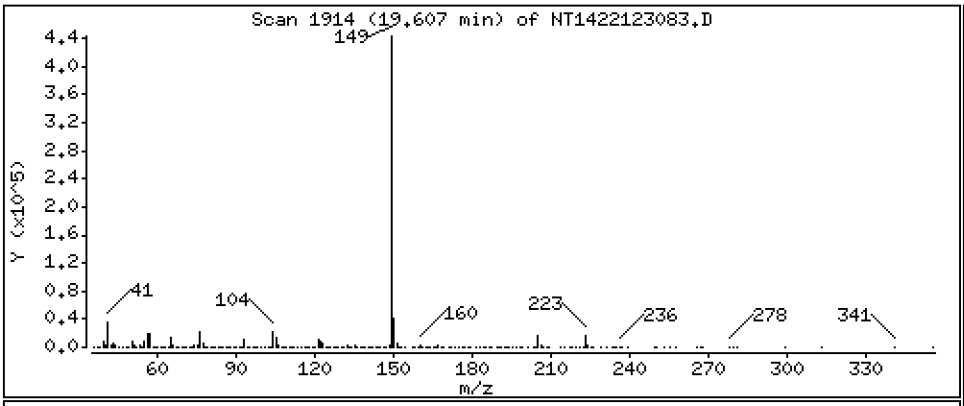
Operator: VTS

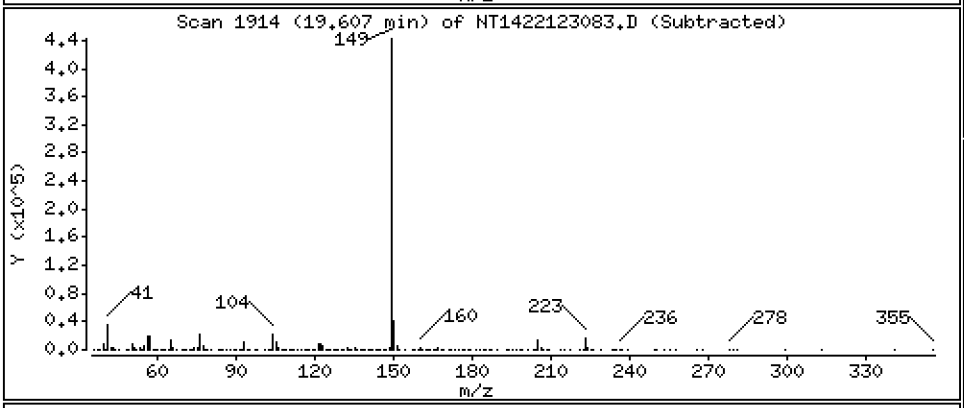
Column phase: ZB-5msi

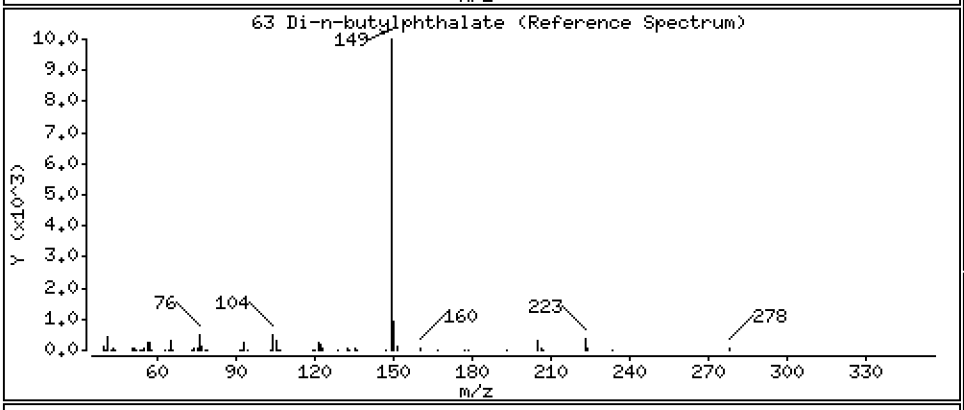
Column diameter: 0.25

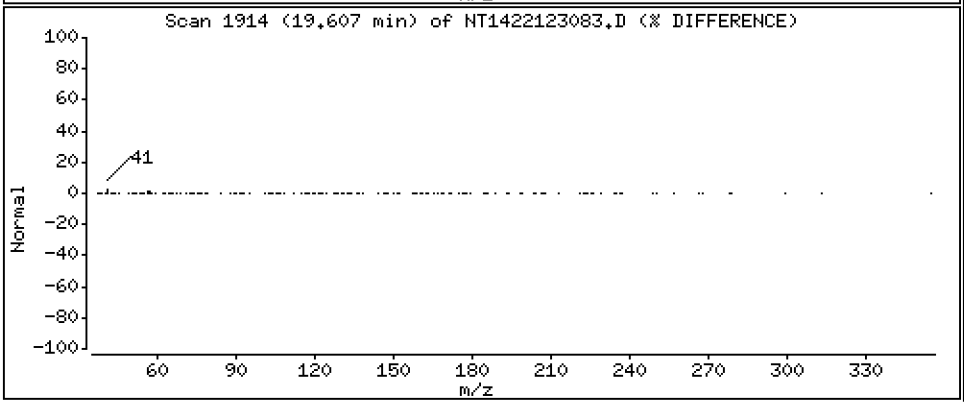
63 Di-n-butylphthalate

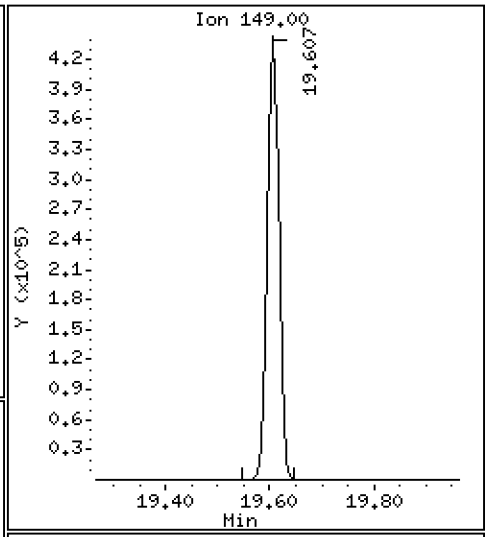
Concentration: 5.364 ug/mL

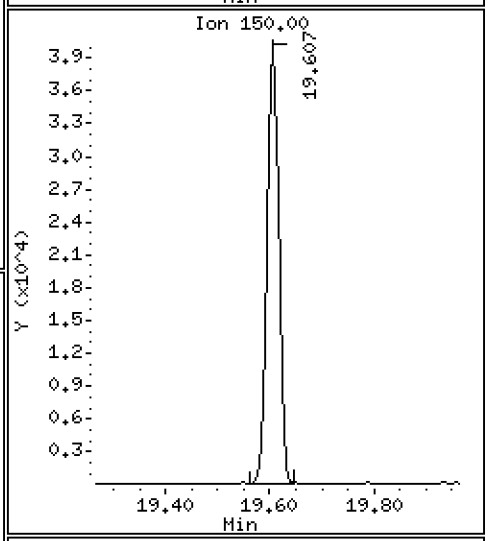


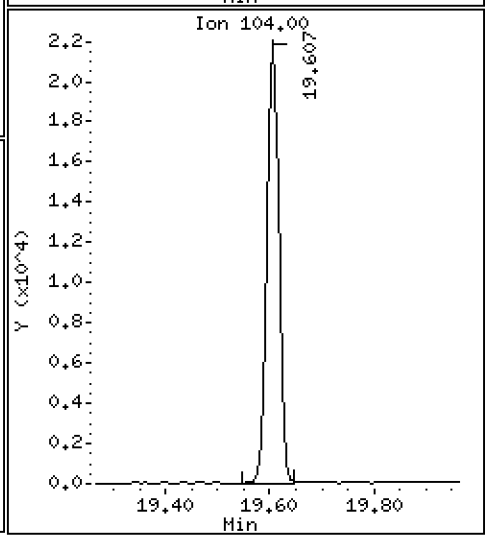












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

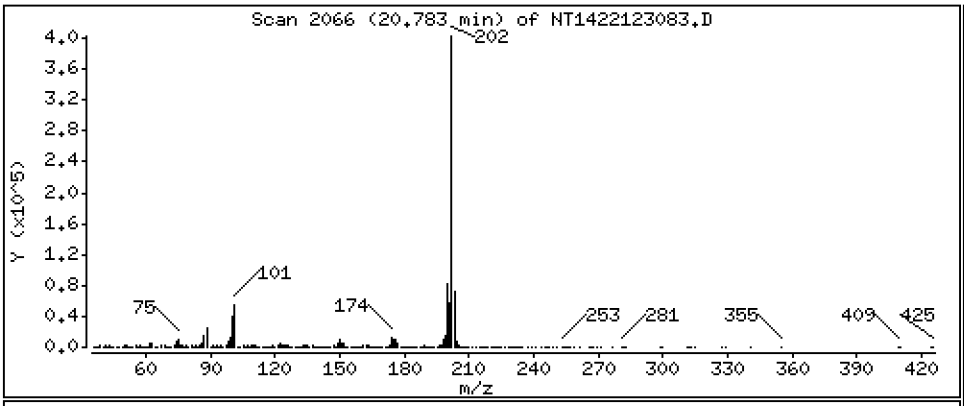
Operator: VTS

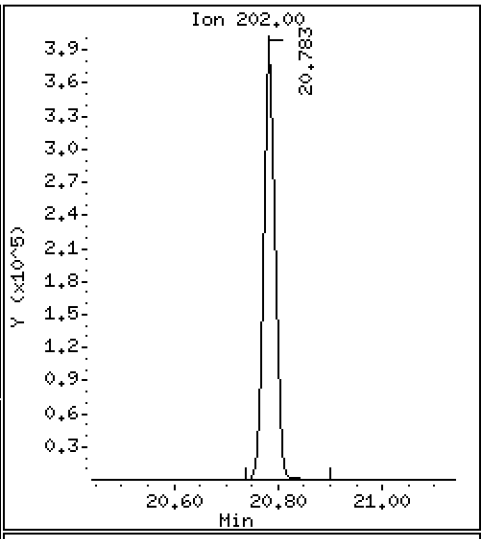
Column phase: ZB-5msi

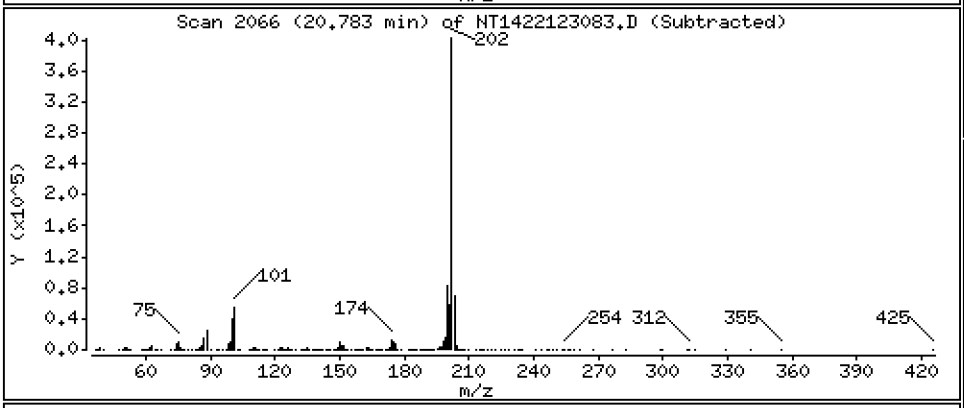
Column diameter: 0.25

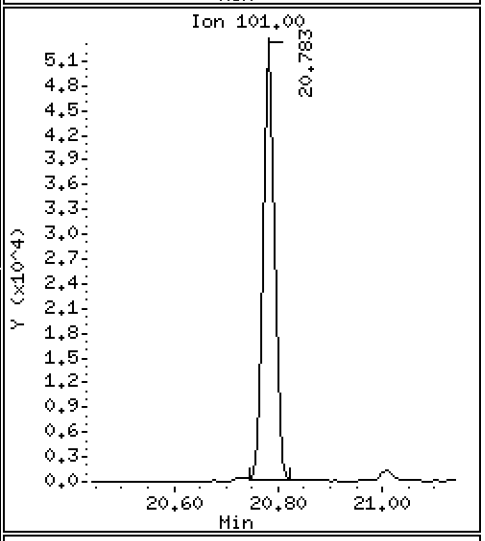
64 Fluoranthene

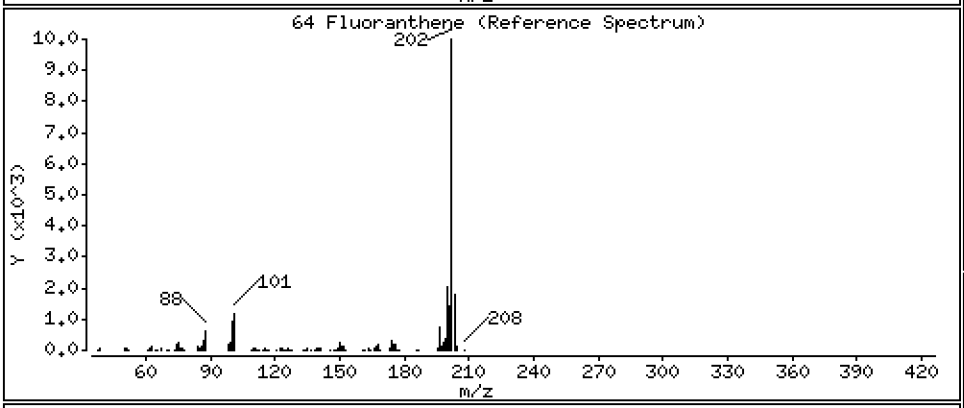
Concentration: 4.617 ug/mL

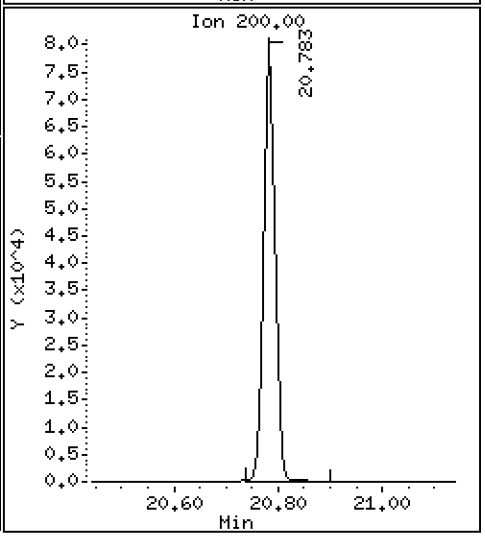


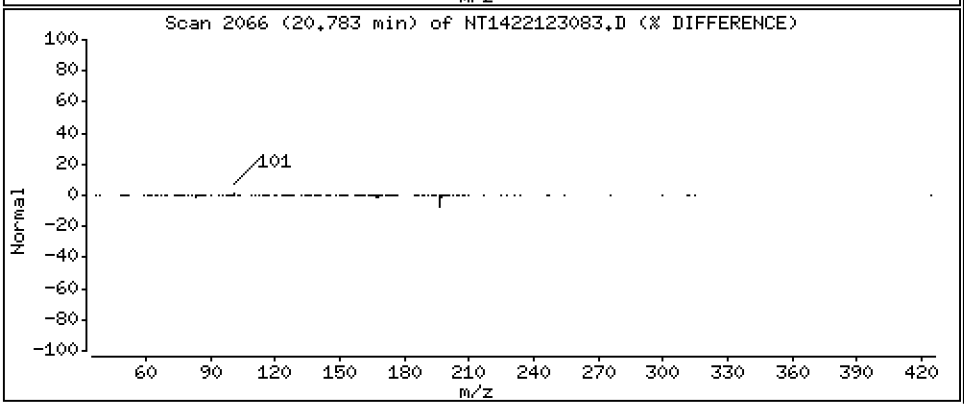












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

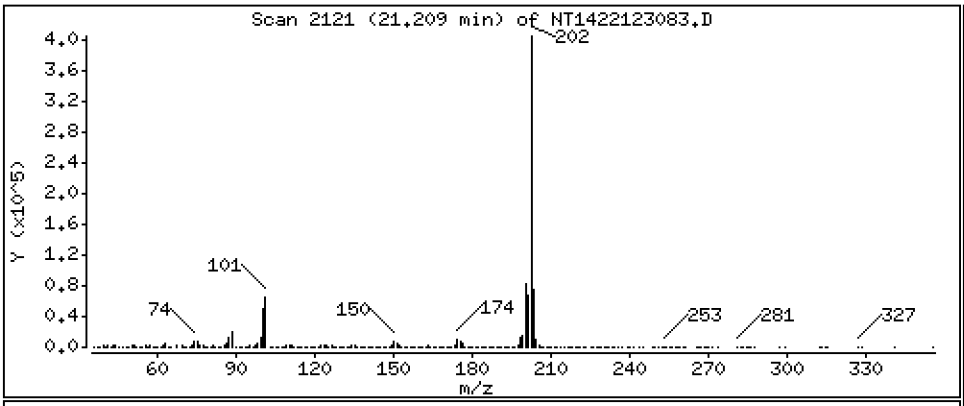
Operator: VTS

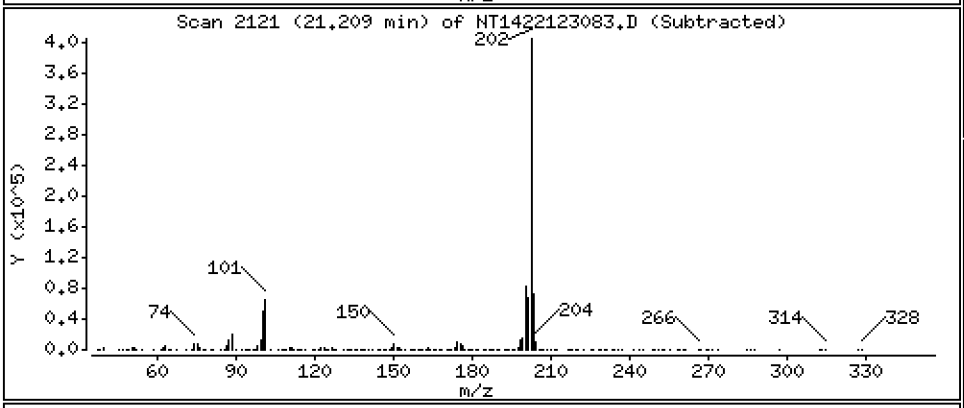
Column phase: ZB-5msi

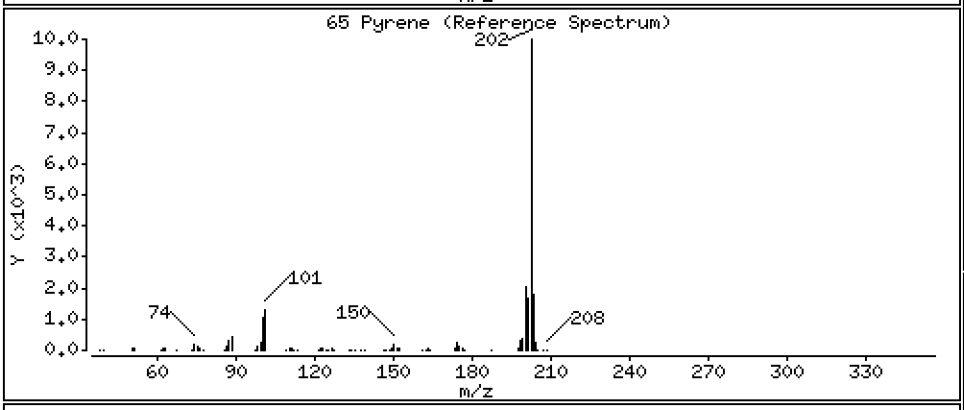
Column diameter: 0.25

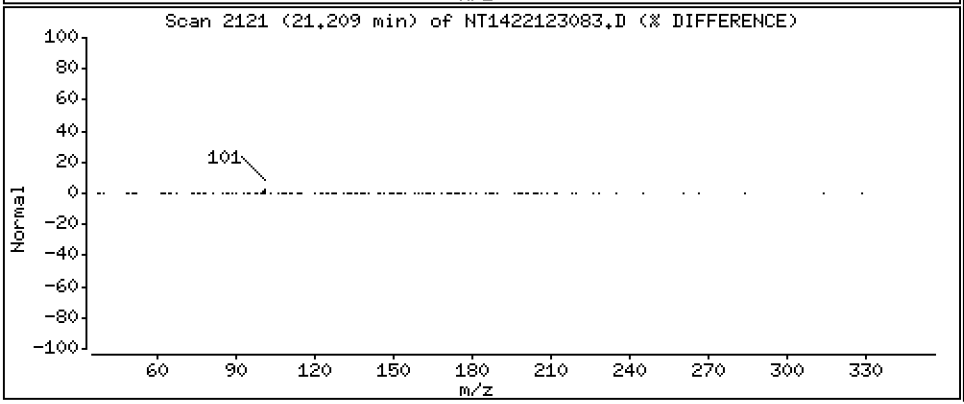
65 Pyrene

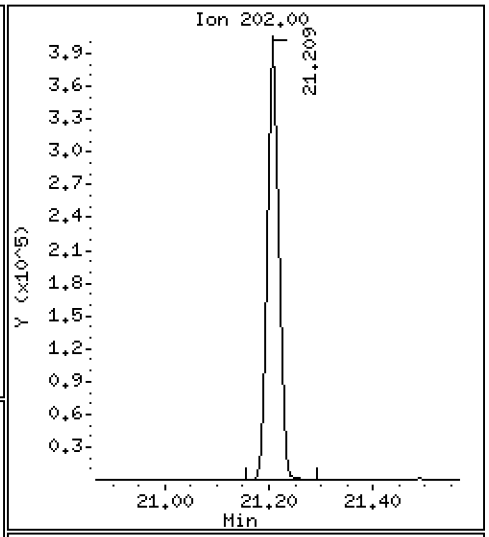
Concentration: 4.520 ug/mL

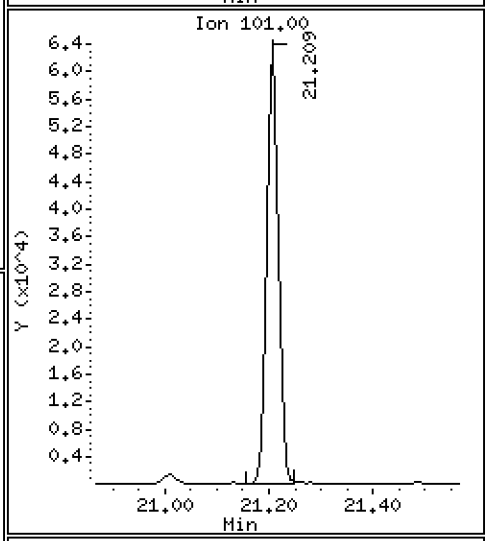


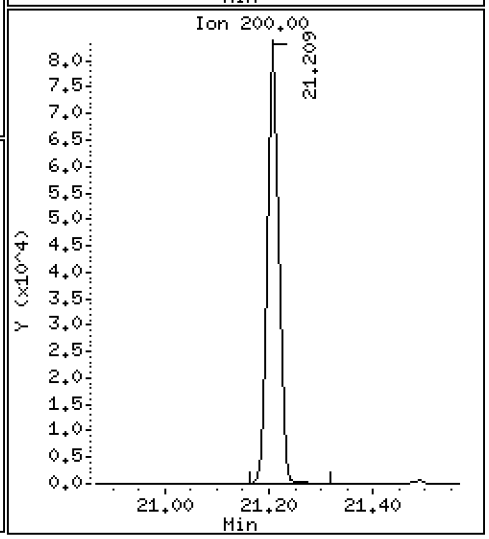












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

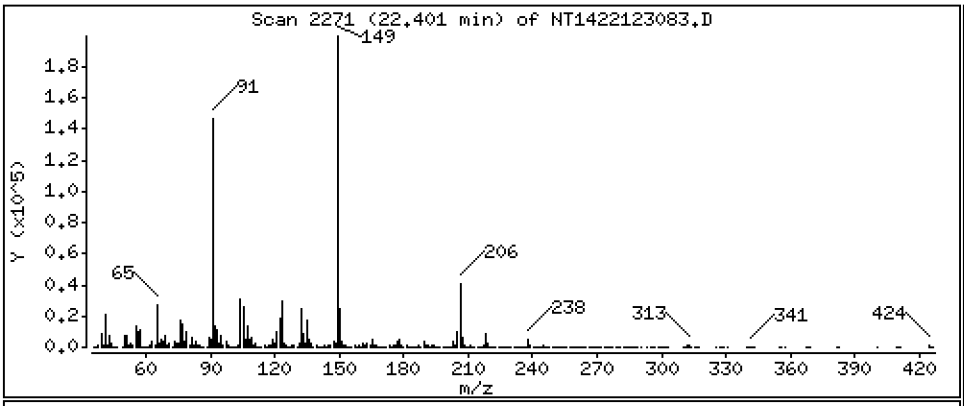
Operator: VTS

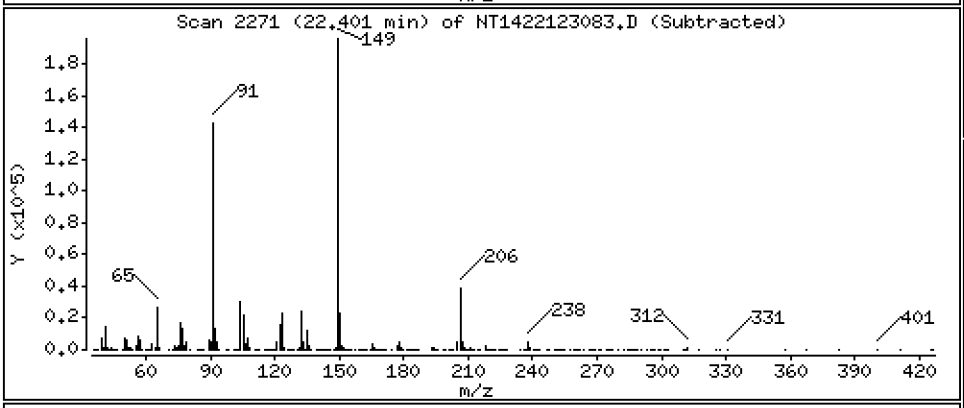
Column phase: ZB-5msi

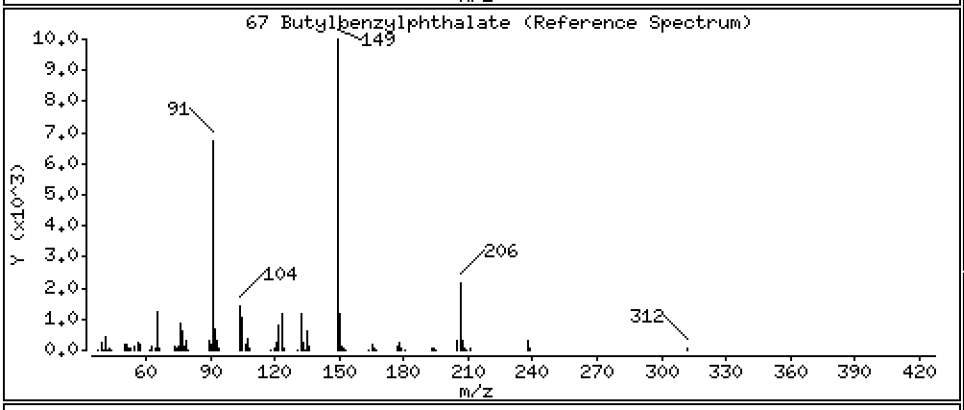
Column diameter: 0.25

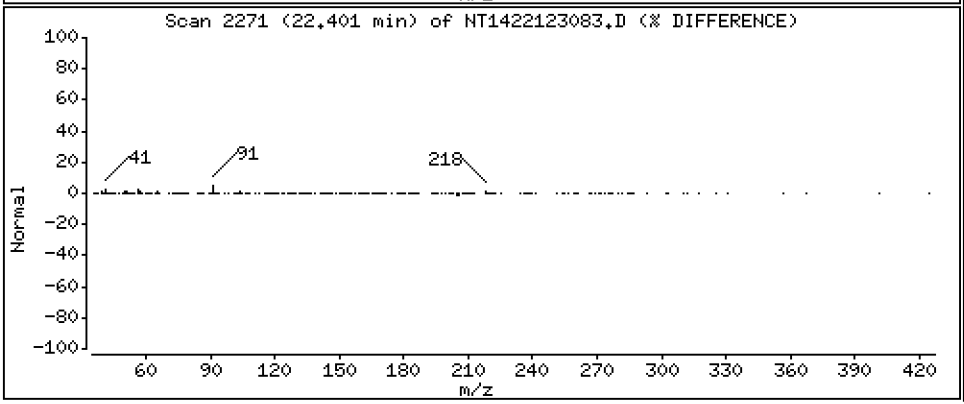
67 Butylbenzylphthalate

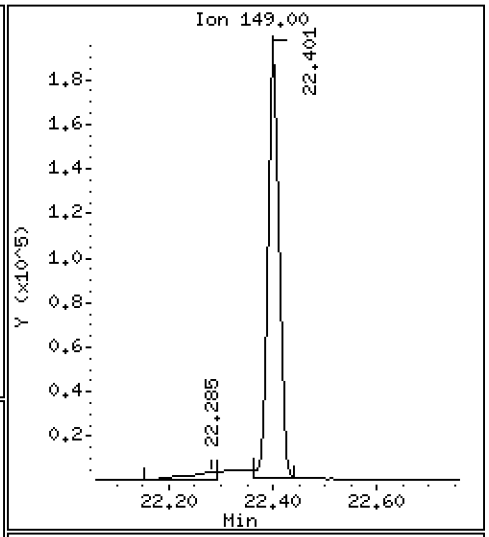
Concentration: 5.440 ug/mL

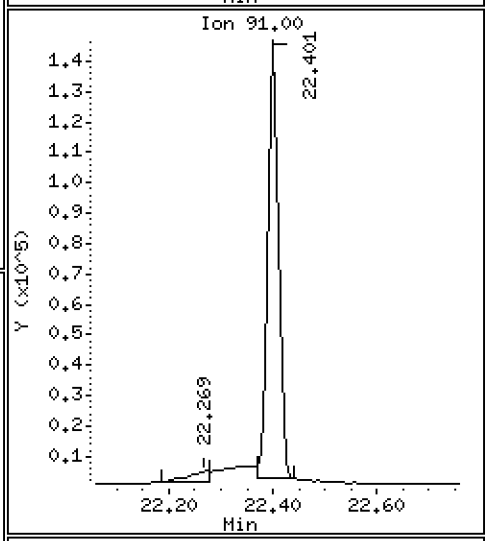


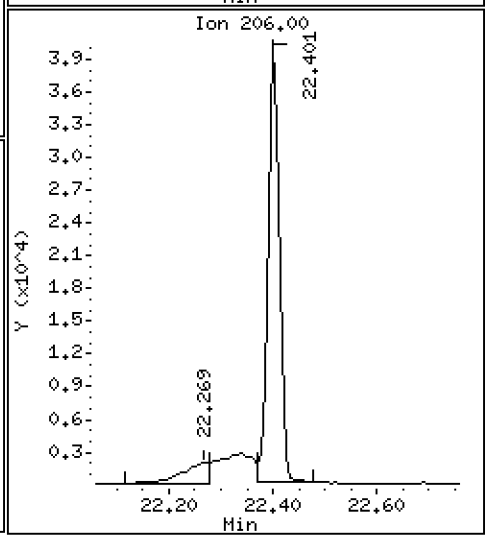












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

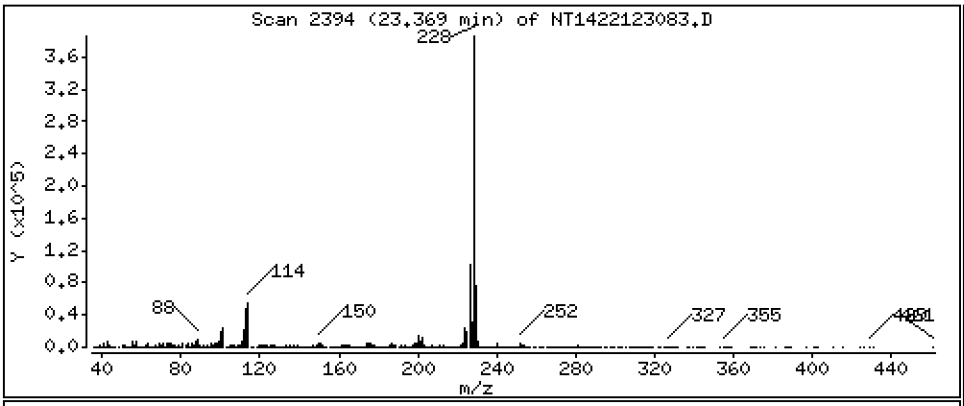
Operator: VTS

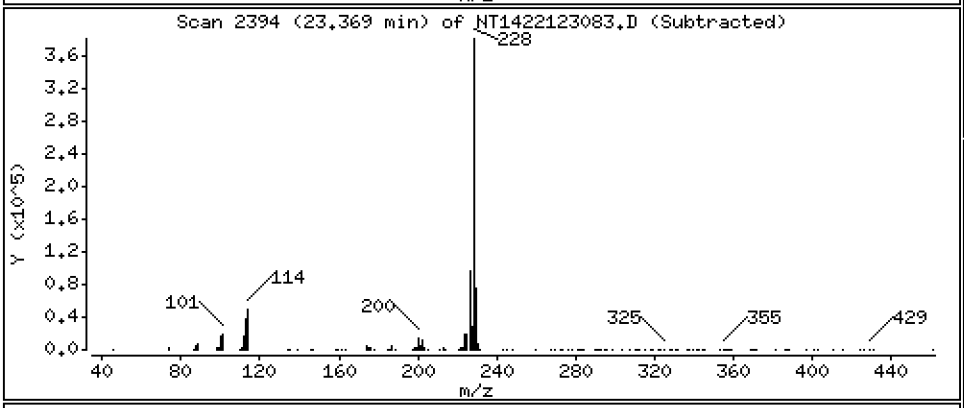
Column phase: ZB-5msi

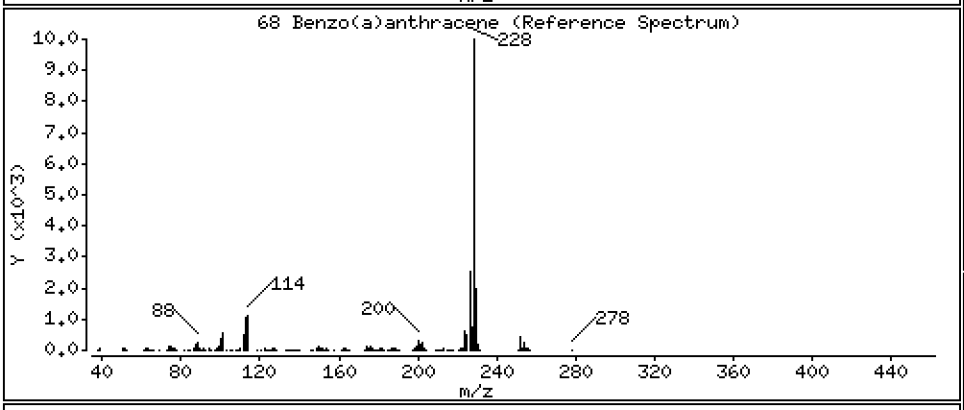
Column diameter: 0.25

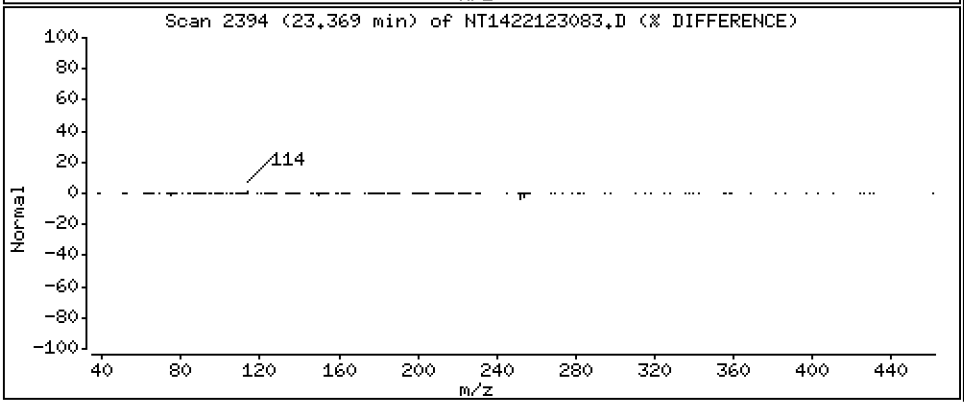
68 Benzo(a)anthracene

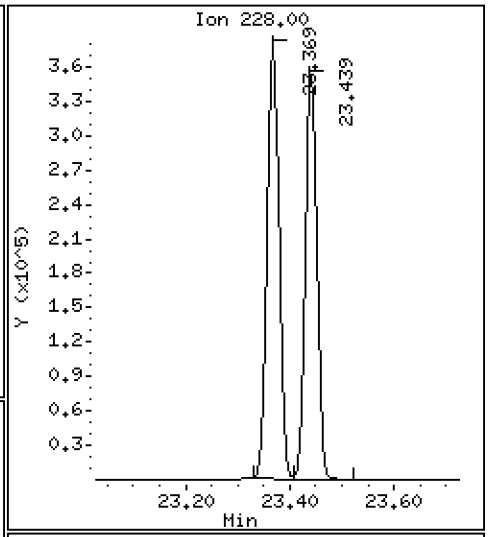
Concentration: 4.819 ug/mL

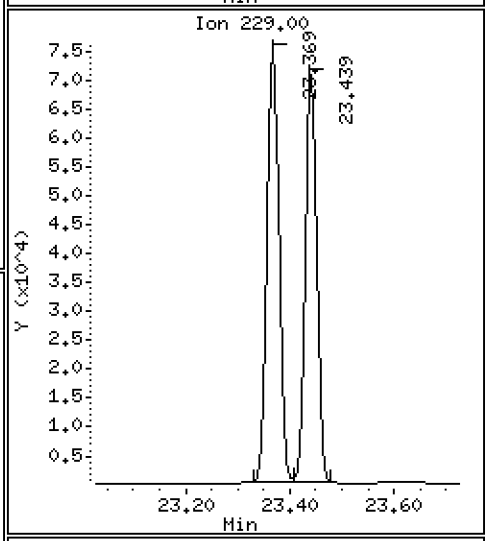


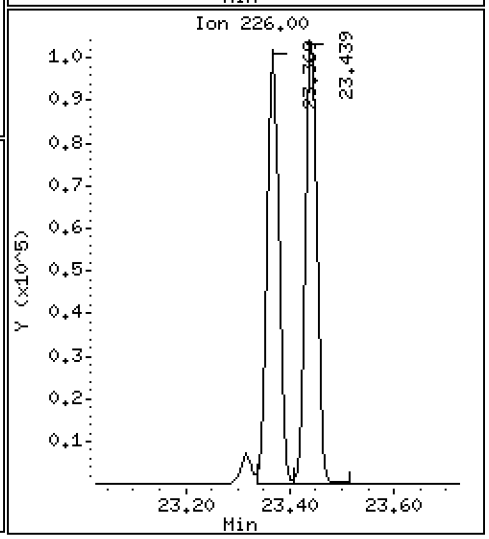












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

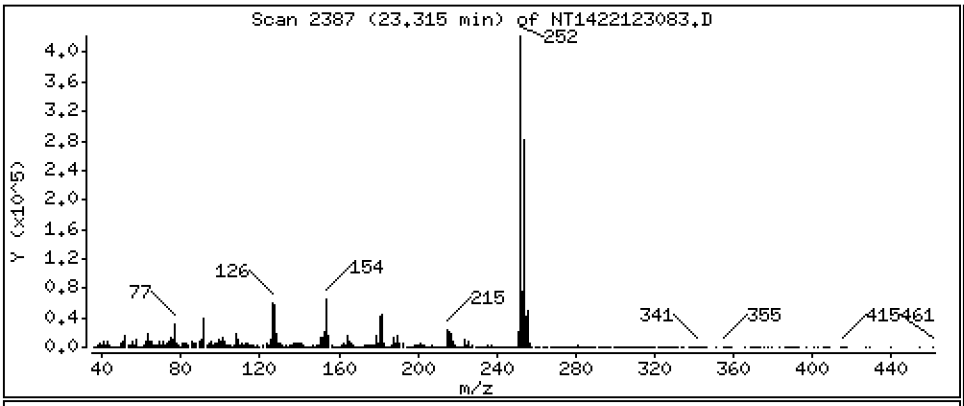
Operator: VTS

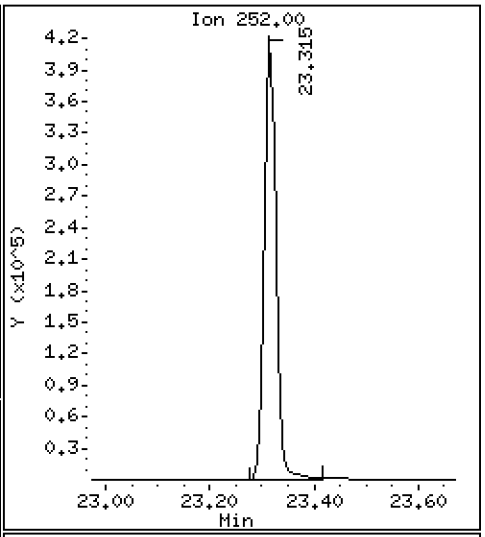
Column phase: ZB-5msi

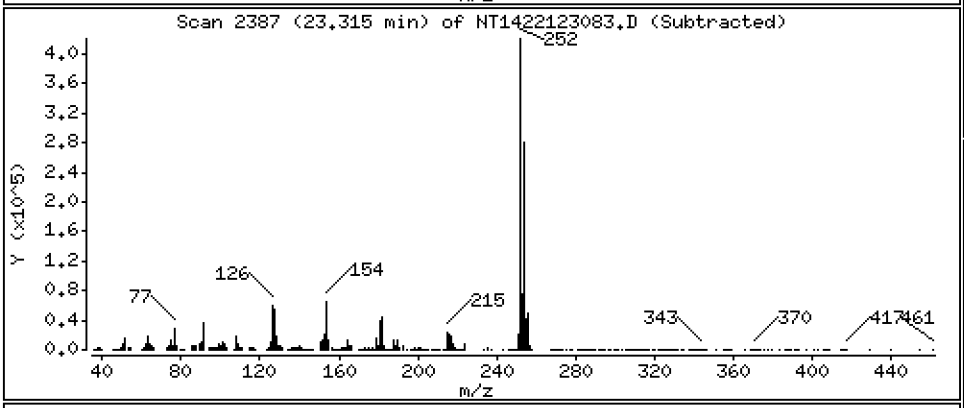
Column diameter: 0.25

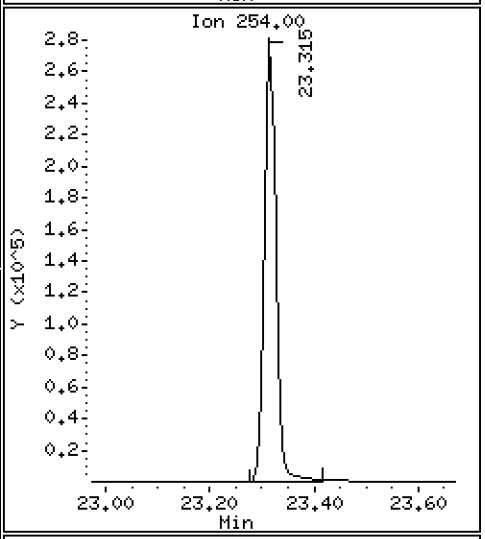
70 3,3'-Dichlorobenzidine

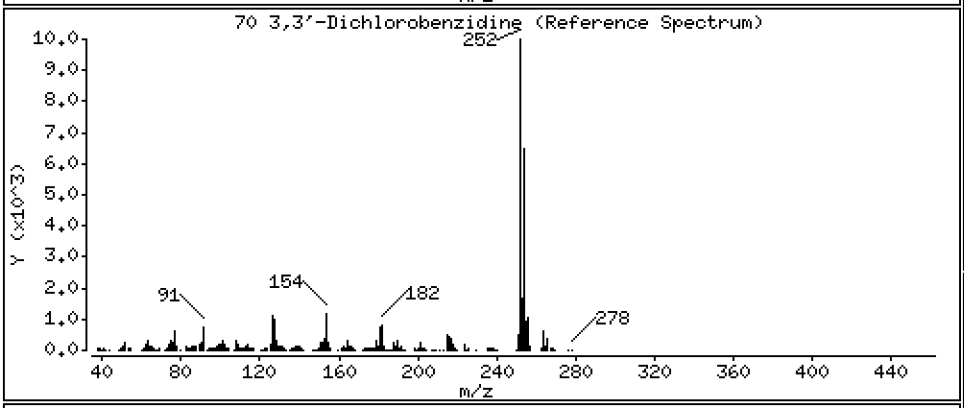
Concentration: 16.87 ug/mL

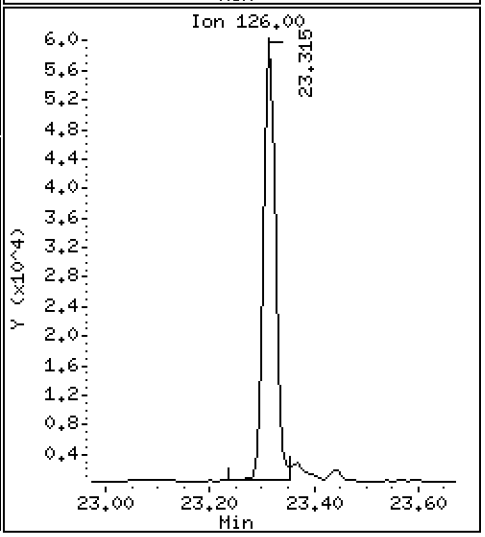


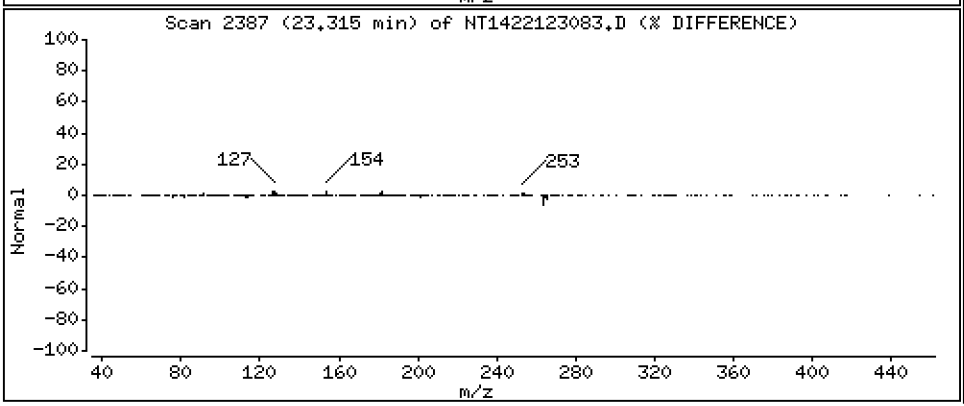












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

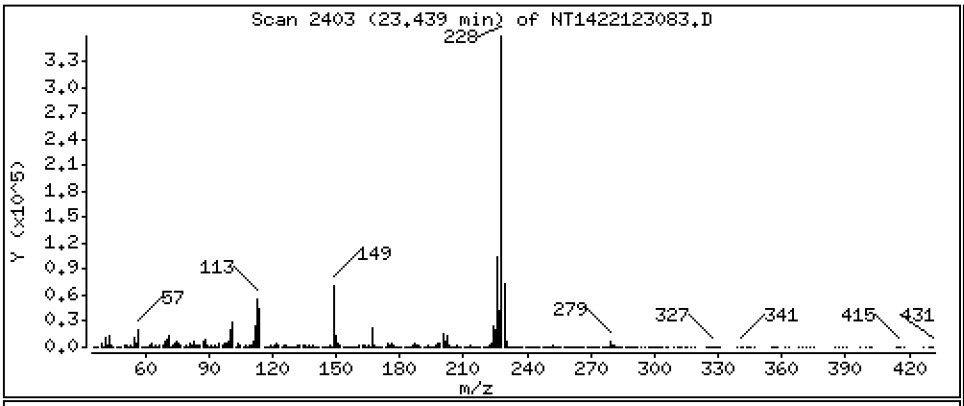
Operator: VTS

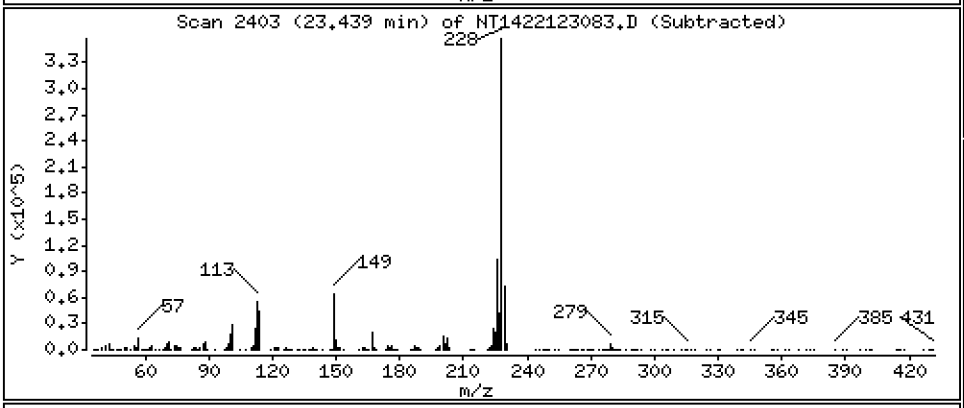
Column phase: ZB-5msi

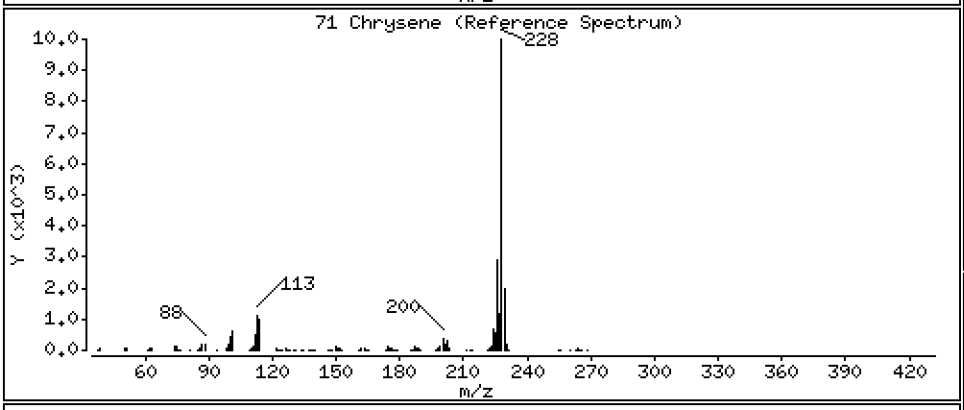
Column diameter: 0.25

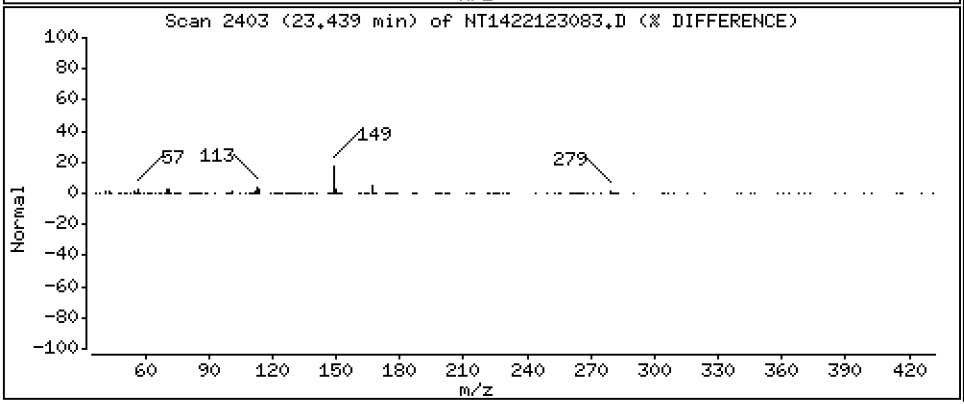
71 Chrysene

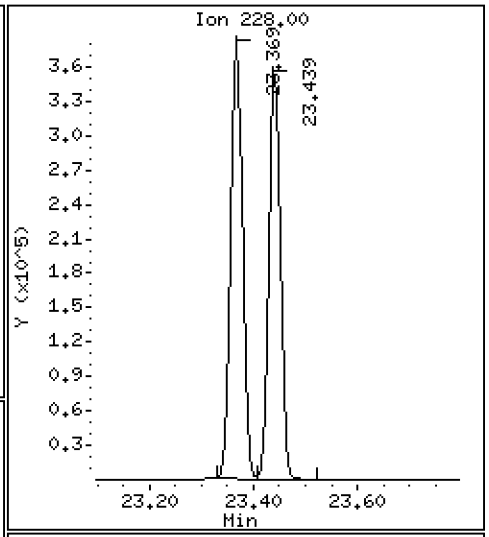
Concentration: 4.720 ug/mL

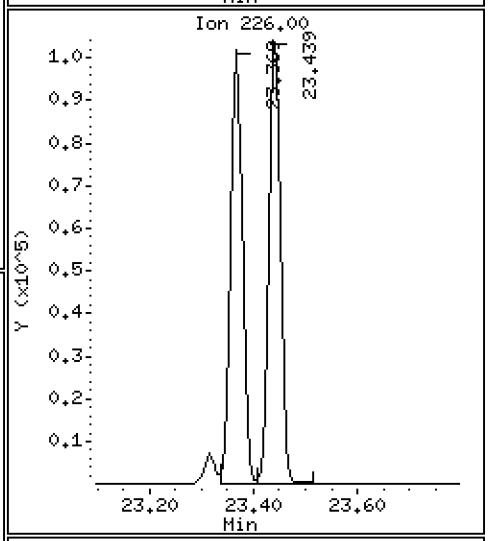


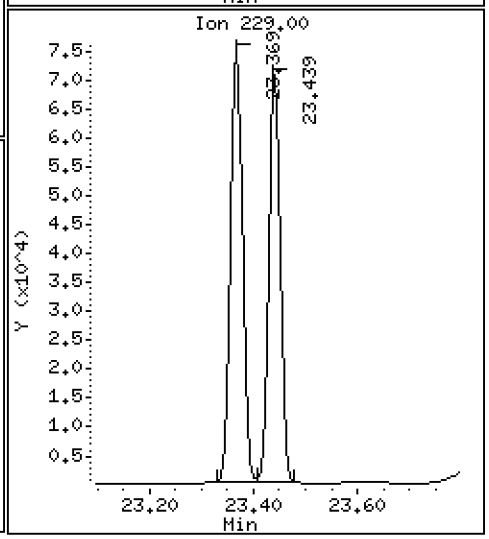












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

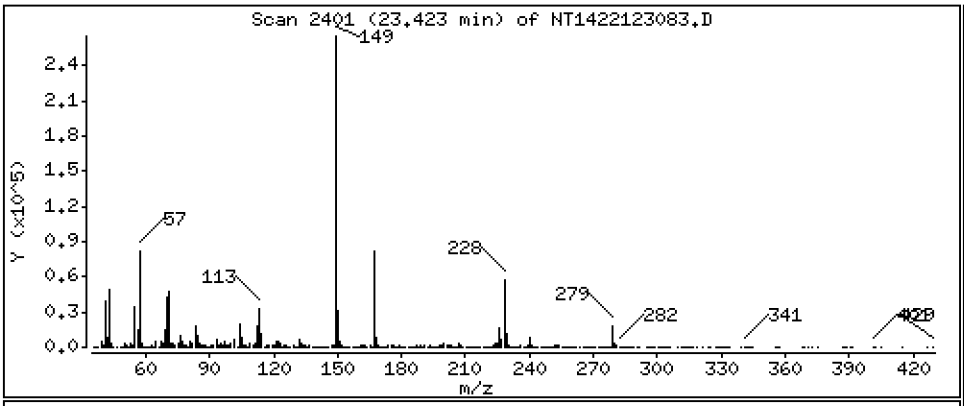
Operator: VTS

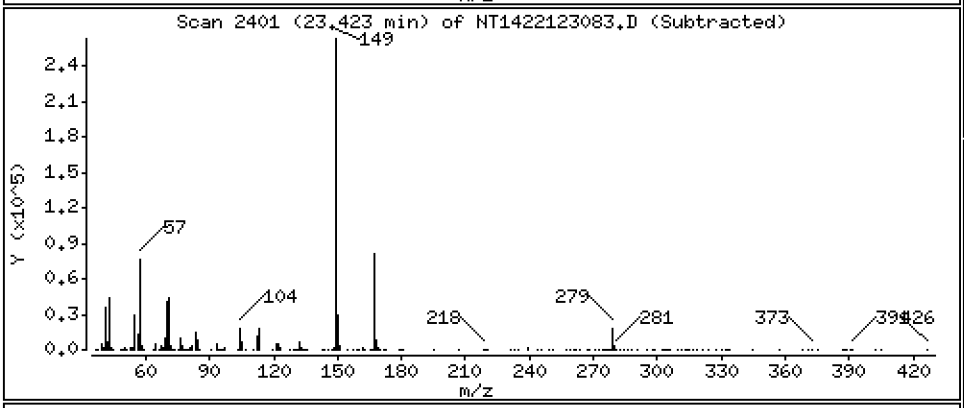
Column phase: ZB-5msi

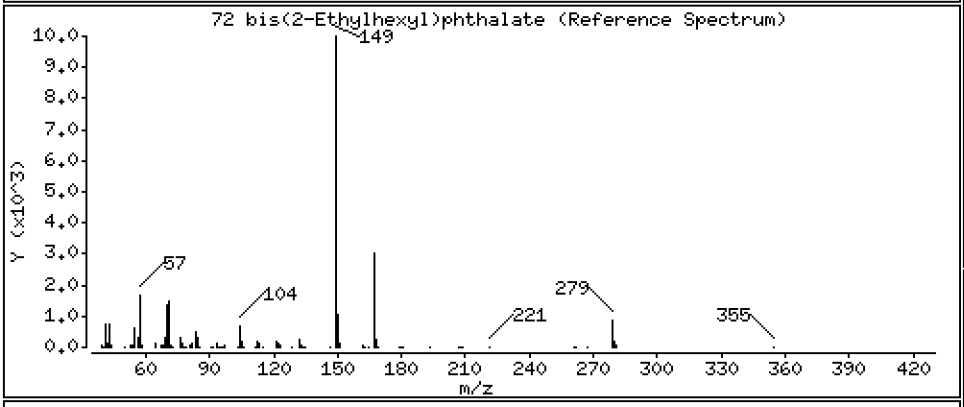
Column diameter: 0.25

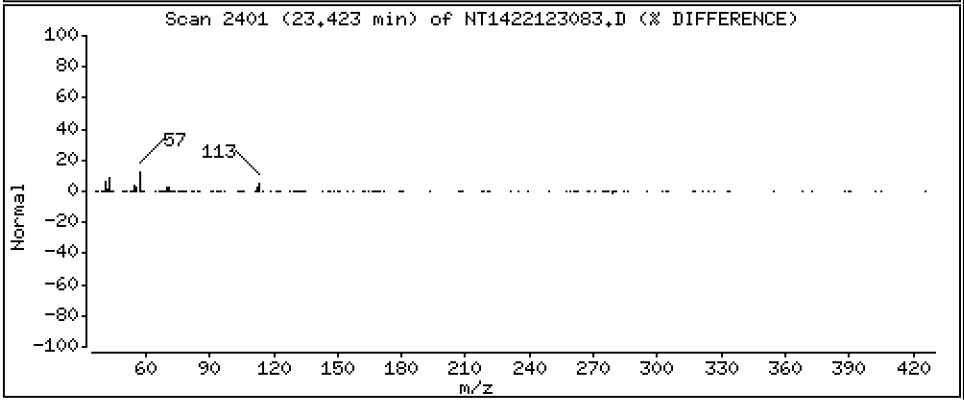
72 bis(2-Ethylhexyl)phthalate

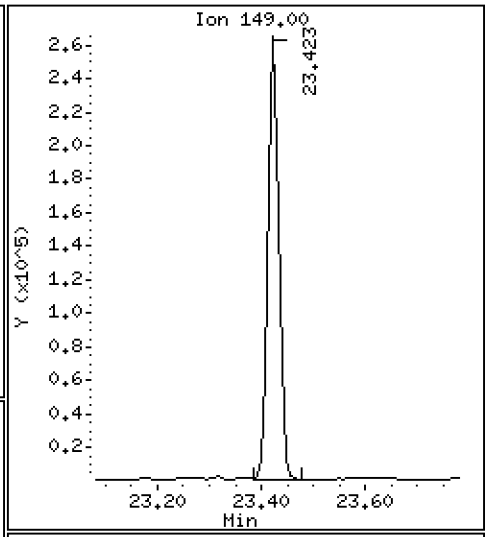
Concentration: 4.870 ug/mL

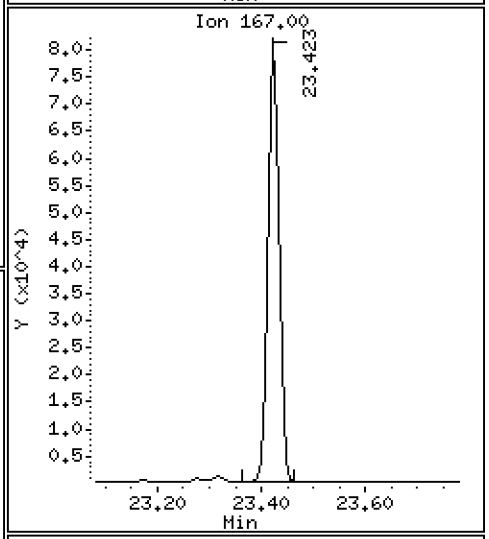


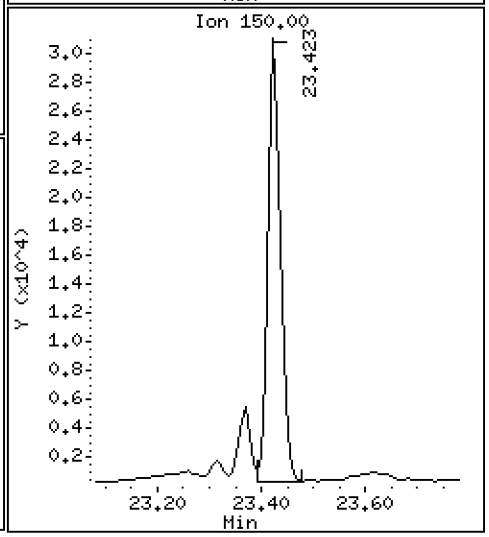












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

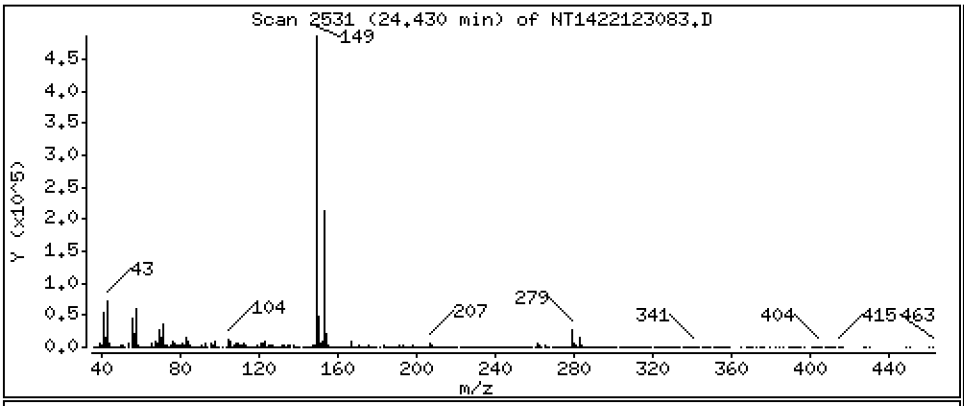
Operator: VTS

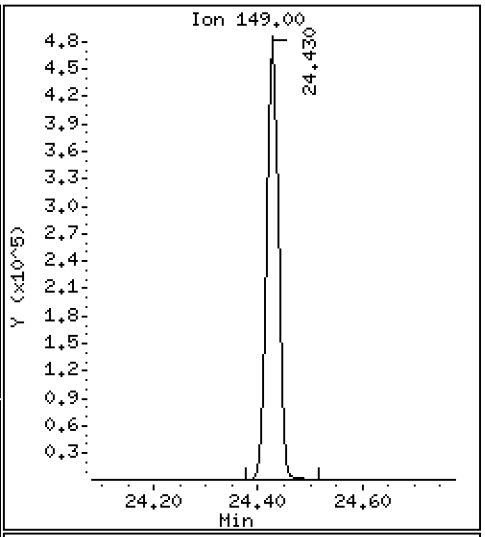
Column phase: ZB-5msi

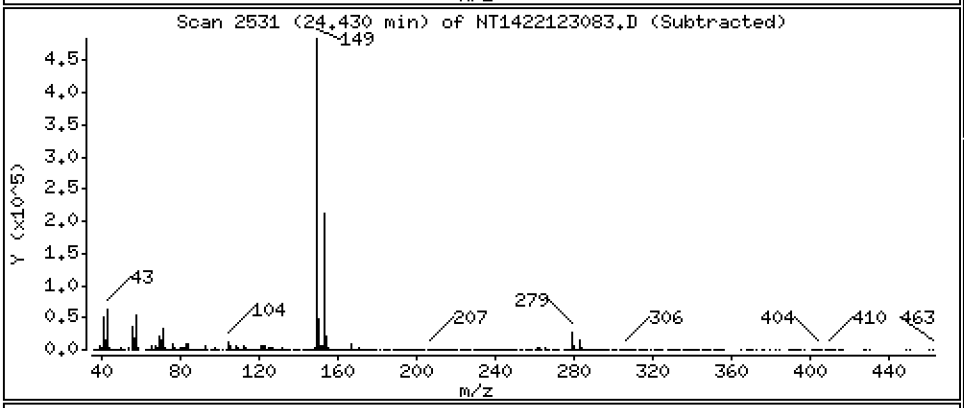
Column diameter: 0.25

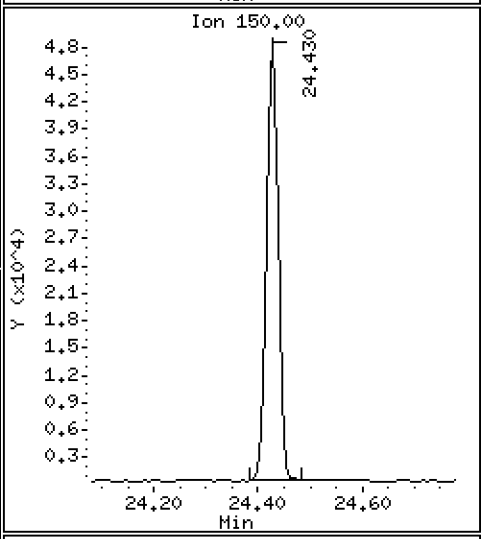
73 Di-n-octylphthalate

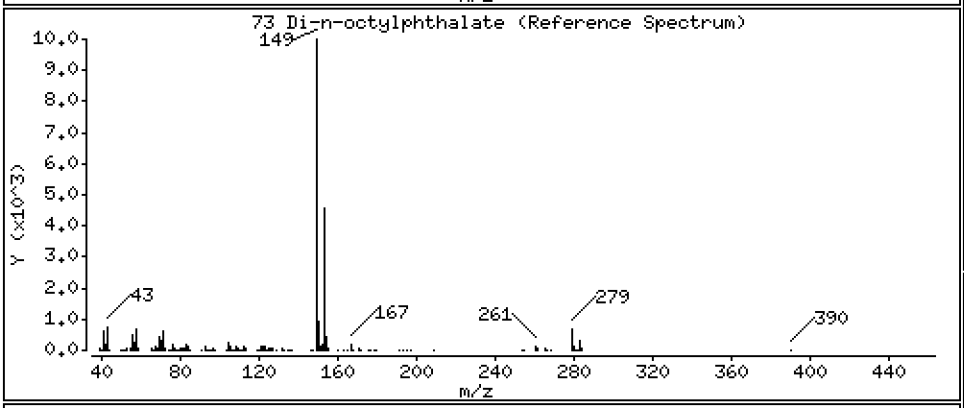
Concentration: 4.294 ug/mL

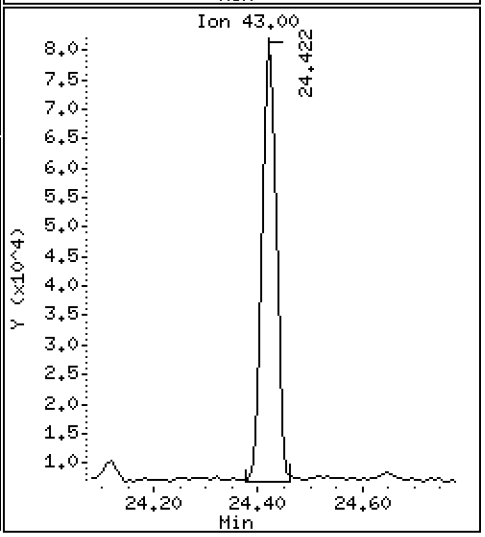


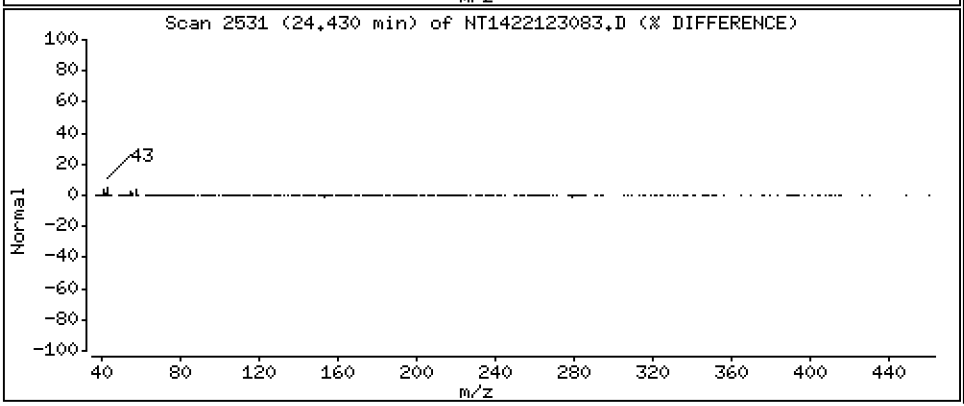












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

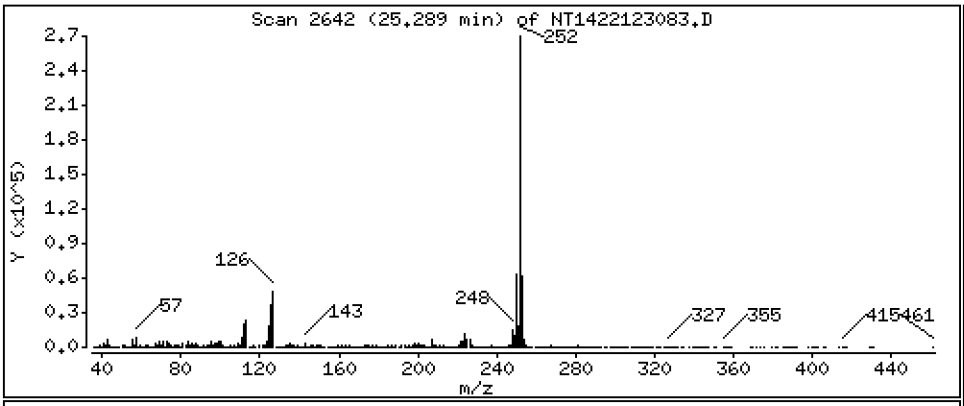
Operator: VTS

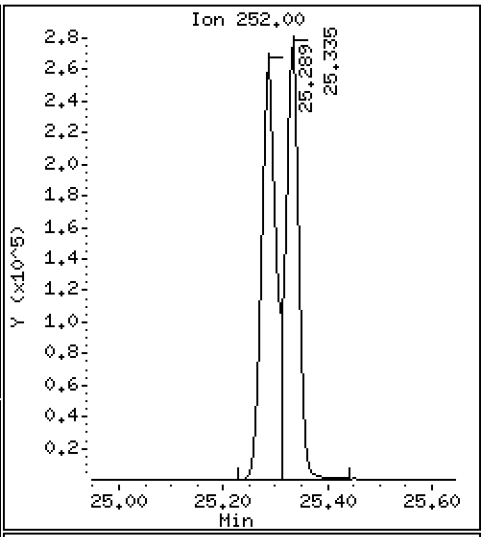
Column phase: ZB-5msi

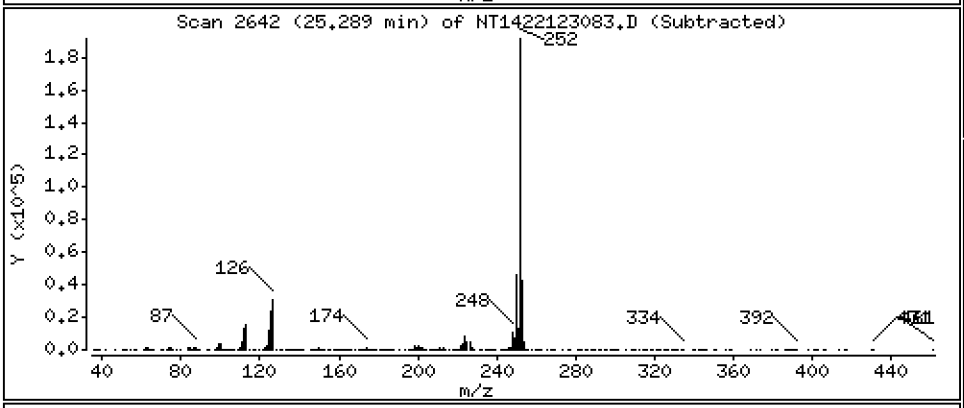
Column diameter: 0.25

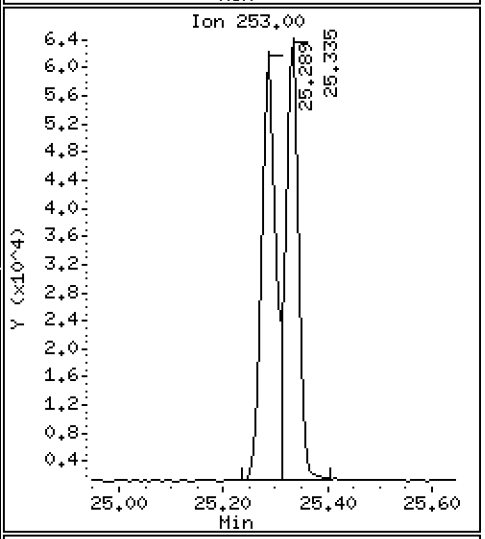
74 Benzo(b)fluoranthene

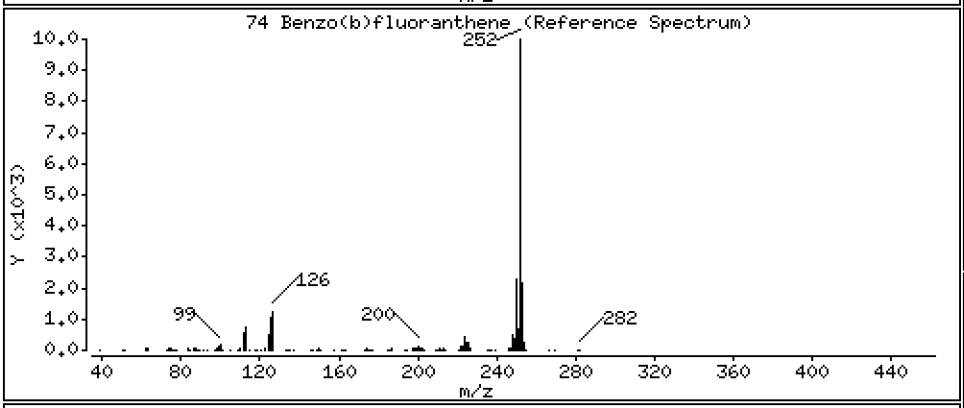
Concentration: 5.553 ug/mL

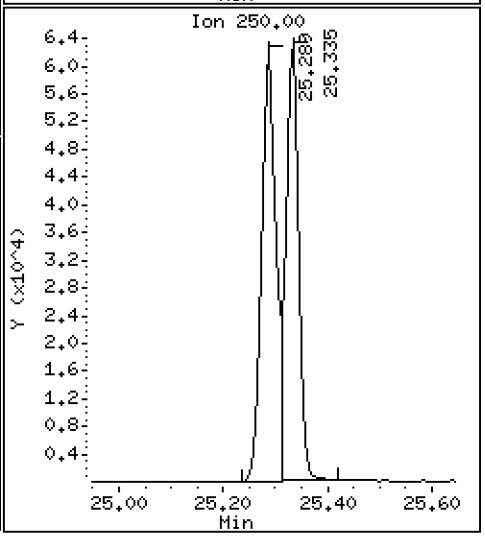


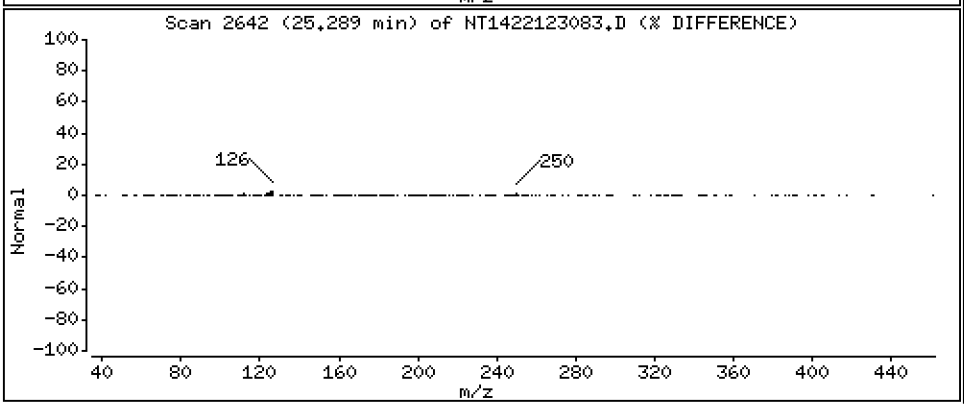












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

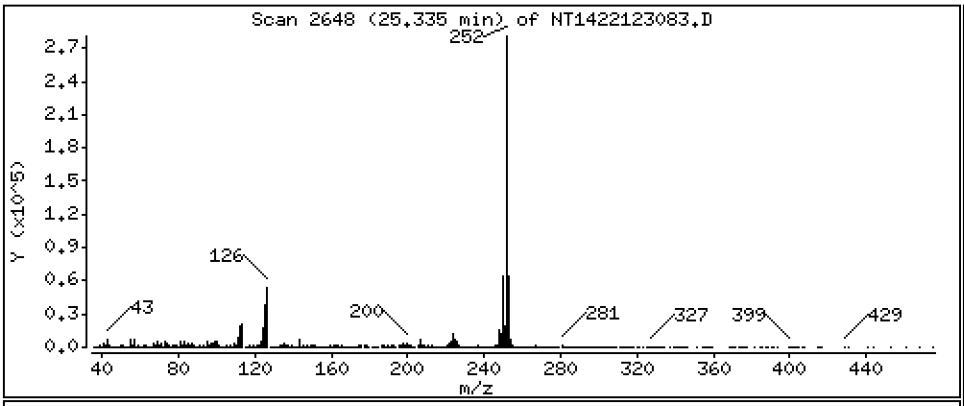
Operator: VTS

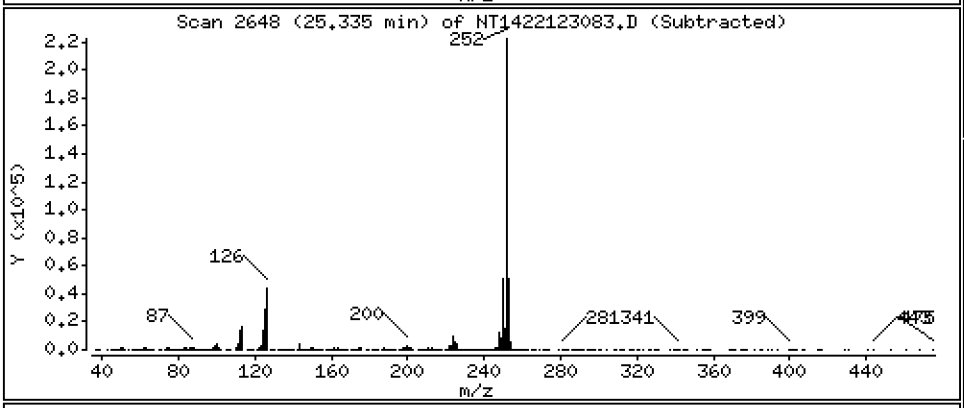
Column phase: ZB-5msi

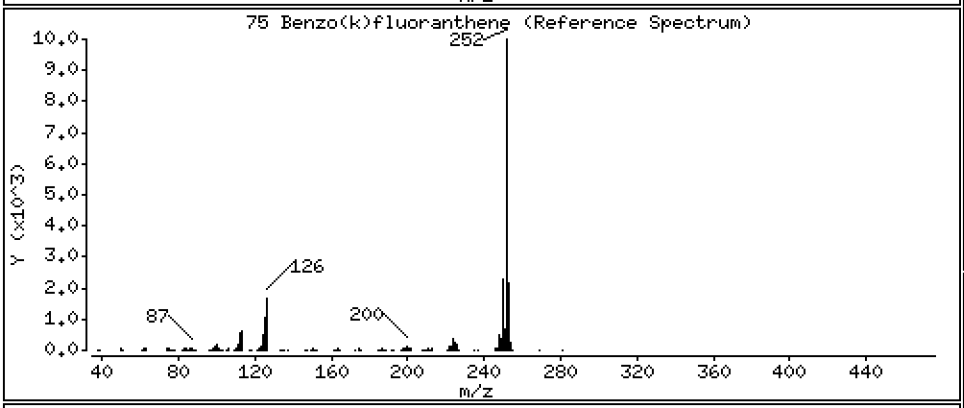
Column diameter: 0.25

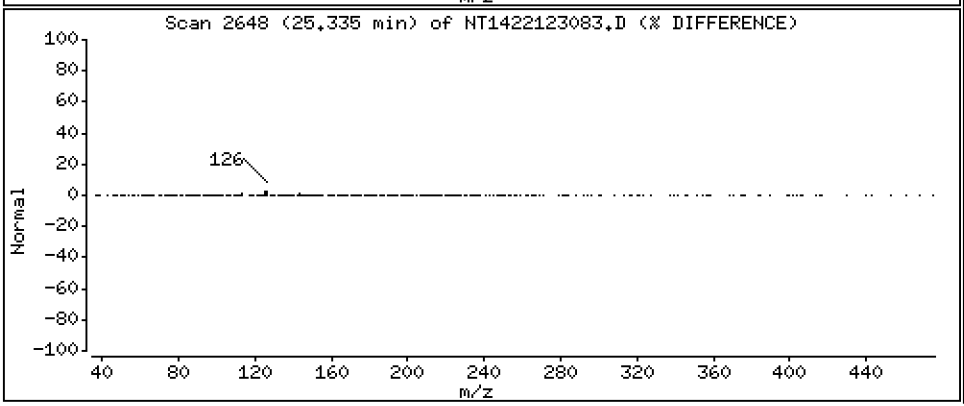
75 Benzo(k)fluoranthene

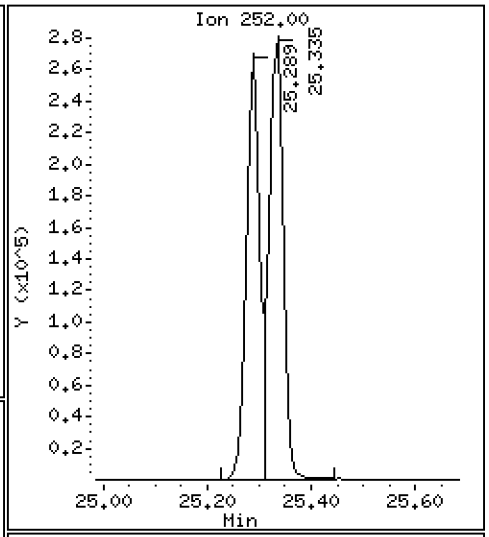
Concentration: 5.349 ug/mL

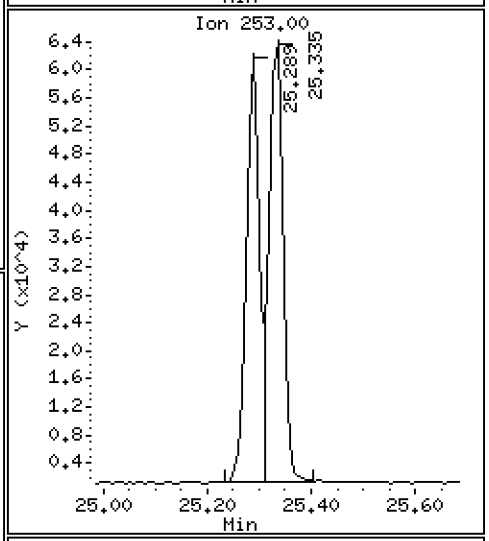


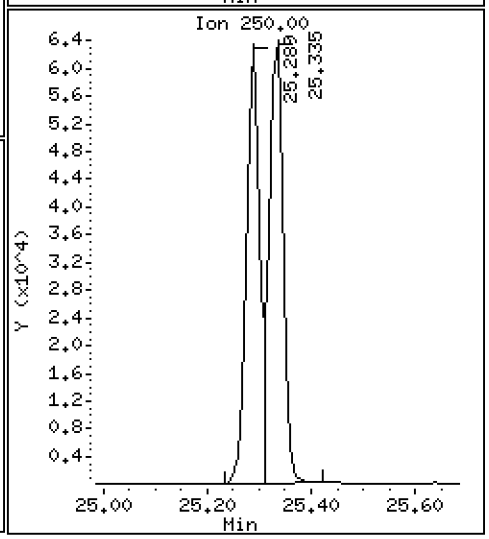












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

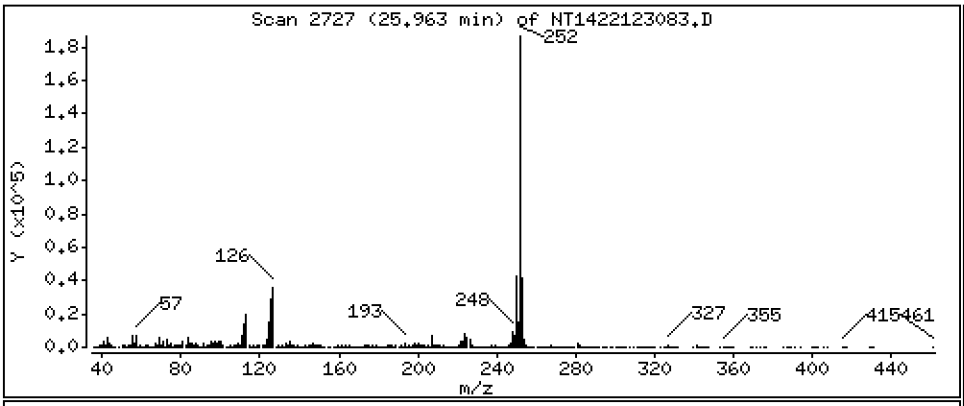
Operator: VTS

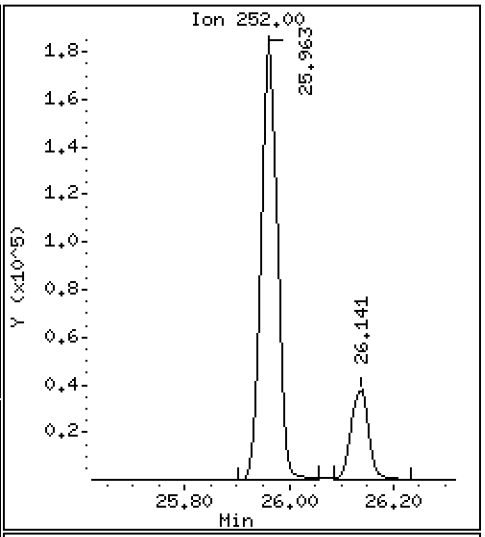
Column phase: ZB-5msi

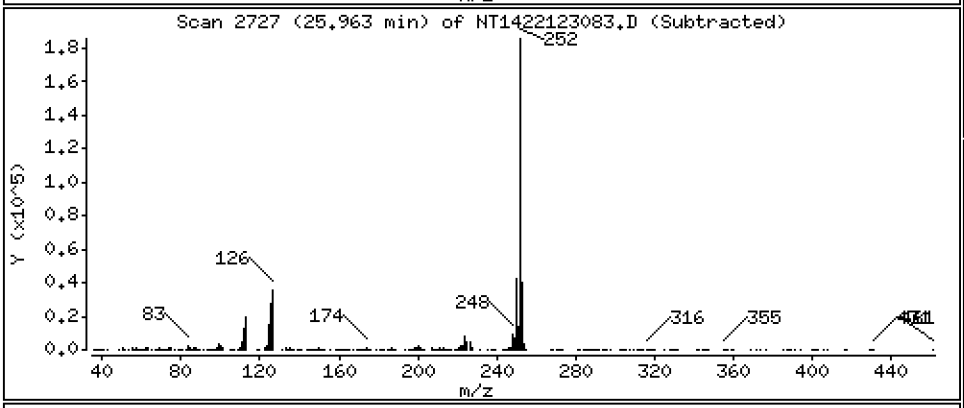
Column diameter: 0.25

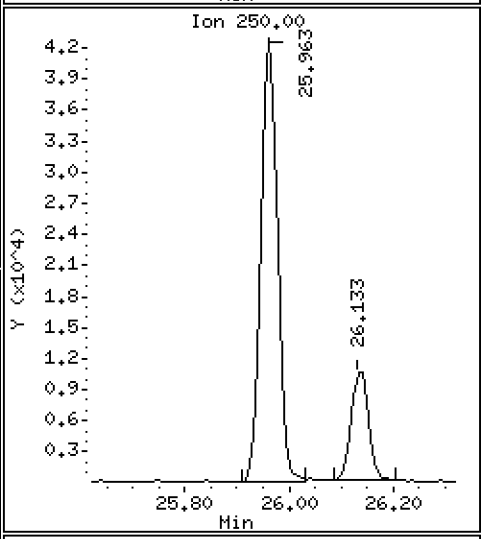
76 Benzo(a)pyrene

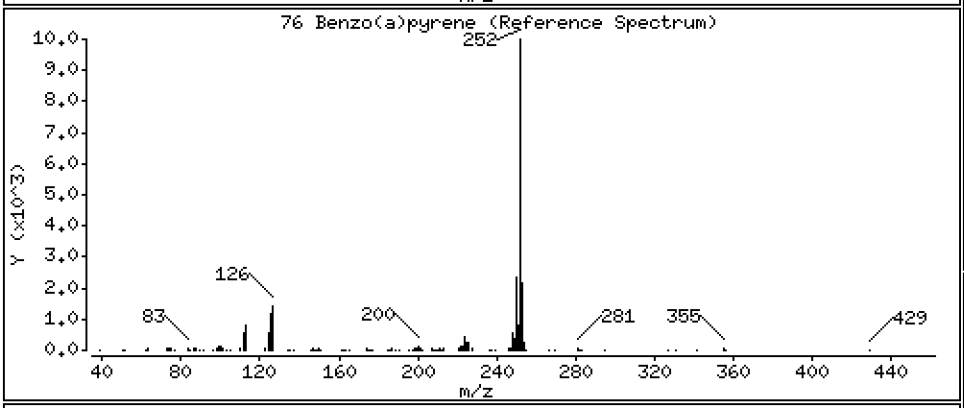
Concentration: 5.014 ug/mL

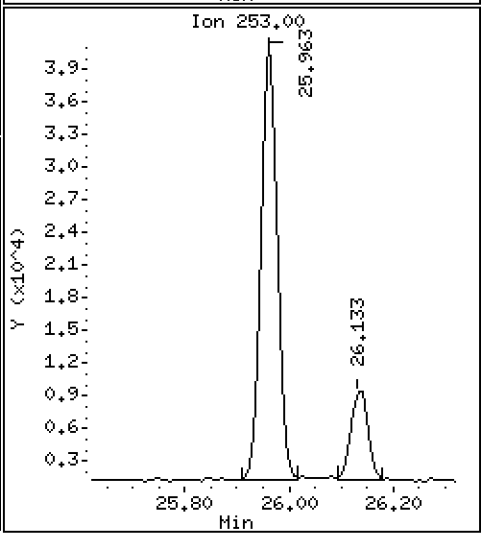


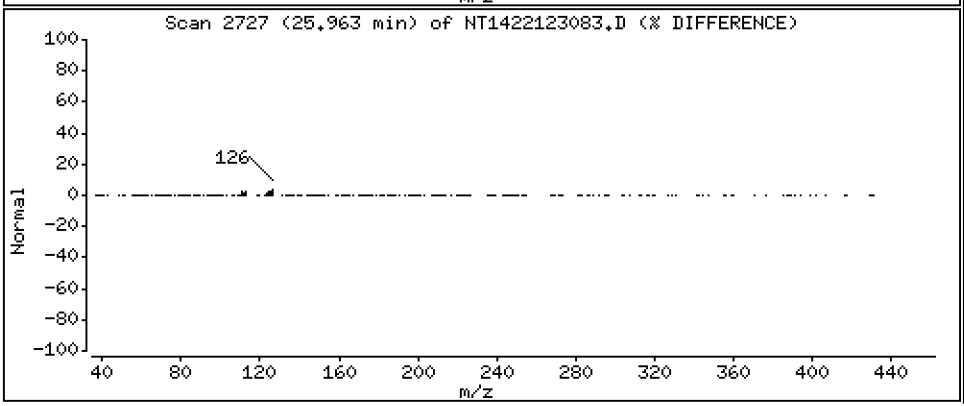












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

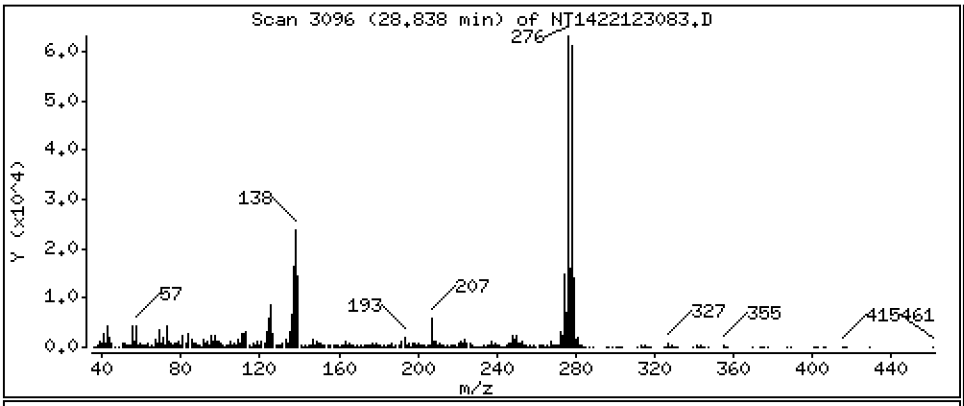
Operator: VTS

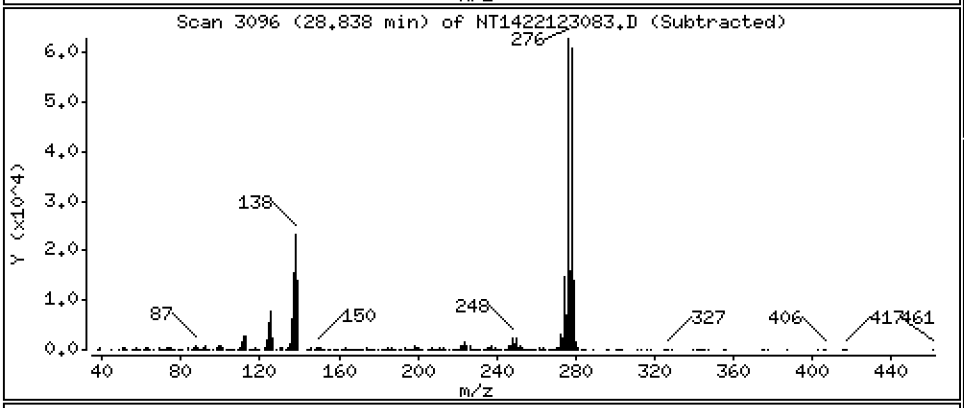
Column phase: ZB-5msi

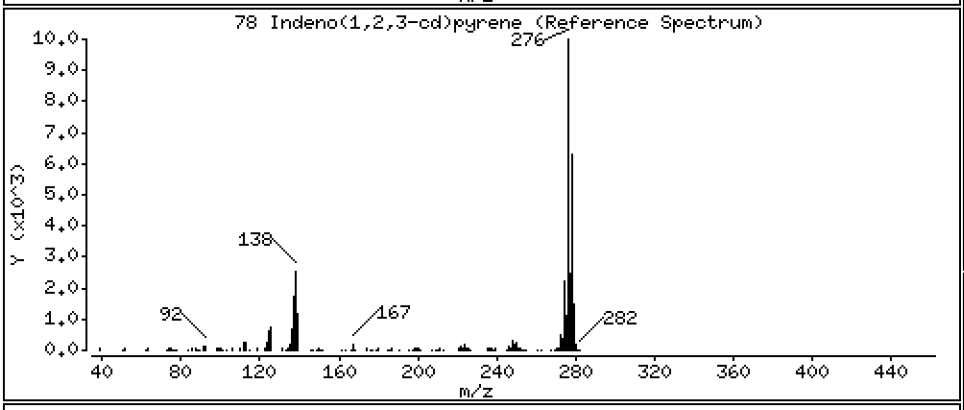
Column diameter: 0.25

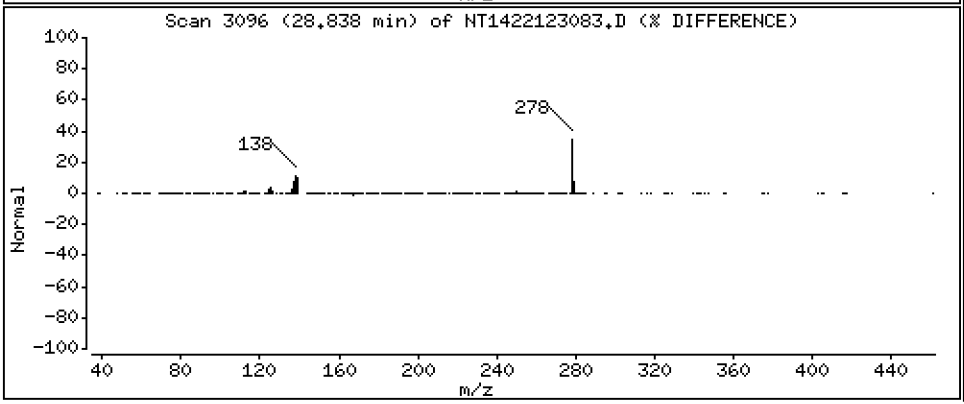
78 Indeno(1,2,3-cd)pyrene

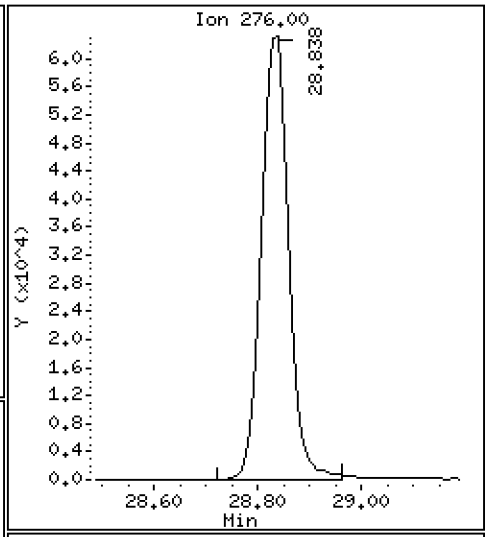
Concentration: 2.570 ug/mL

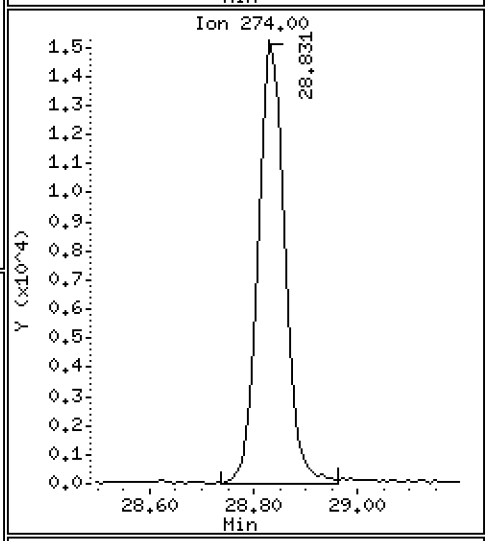


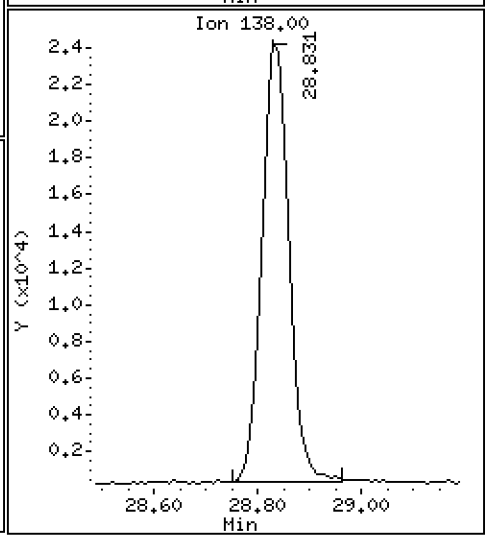












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

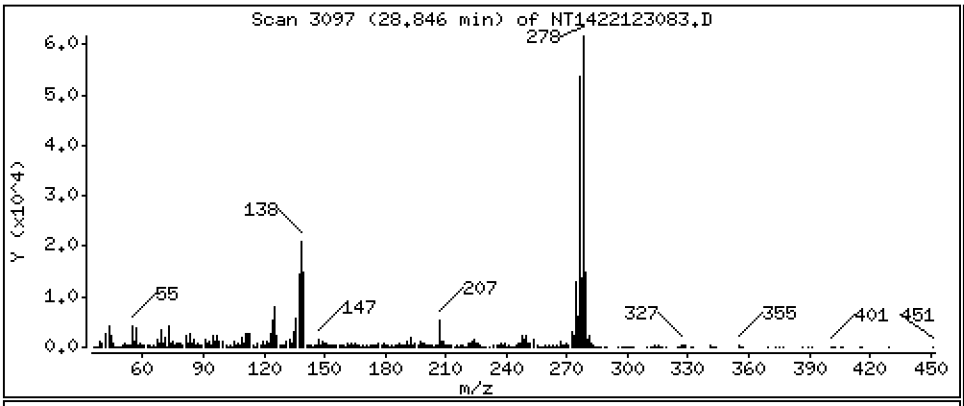
Operator: VTS

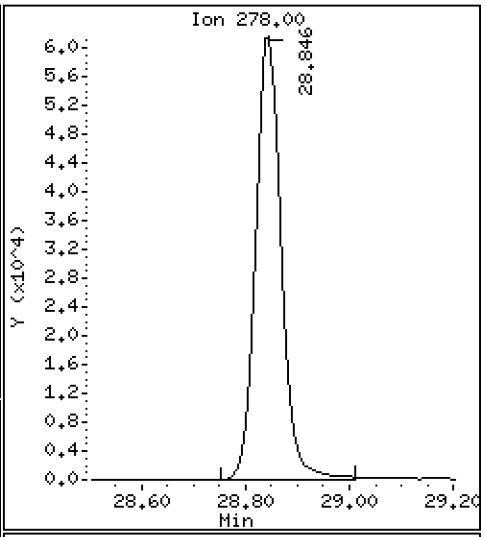
Column phase: ZB-5msi

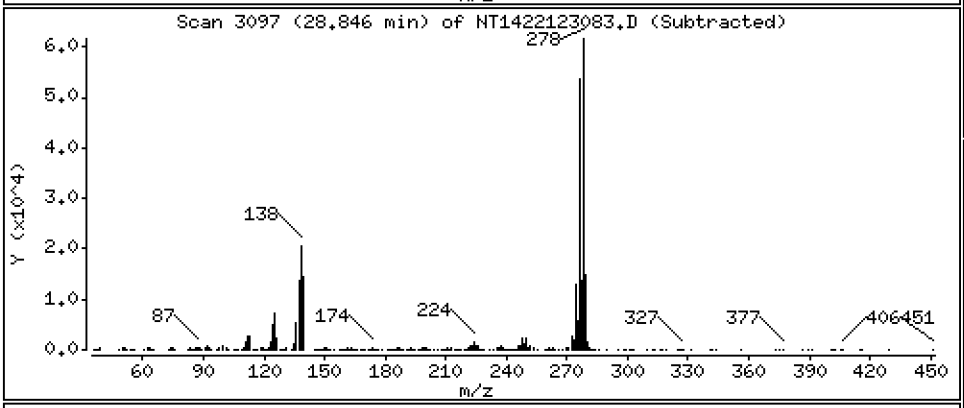
Column diameter: 0.25

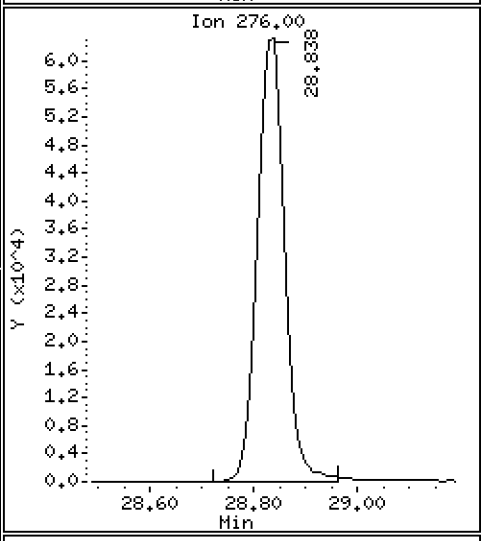
79 Dibenzo(a,h)anthracene

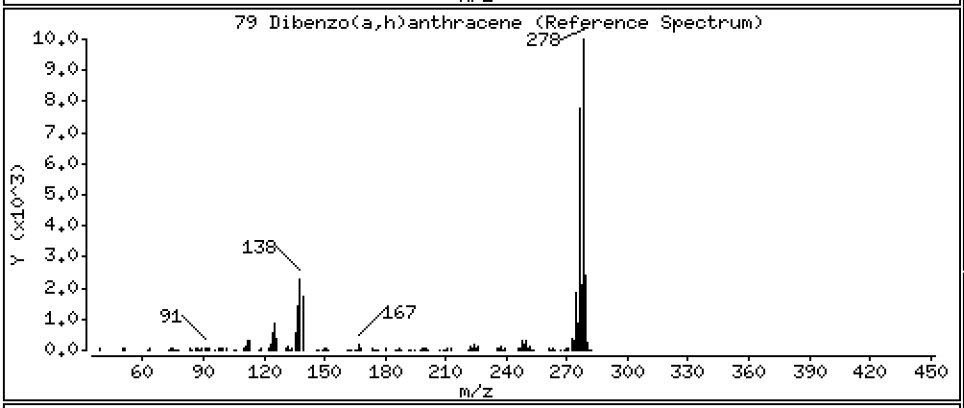
Concentration: 2.747 ug/mL

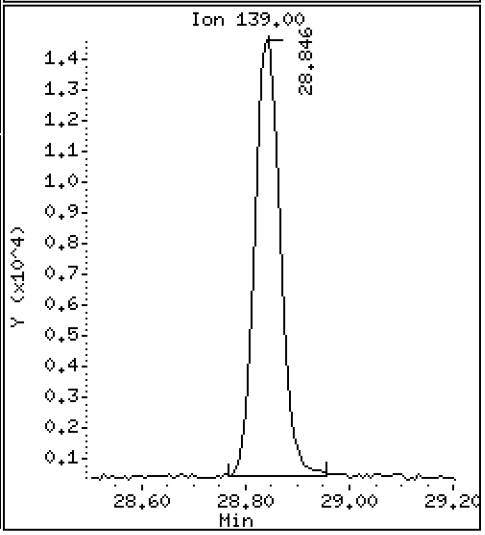


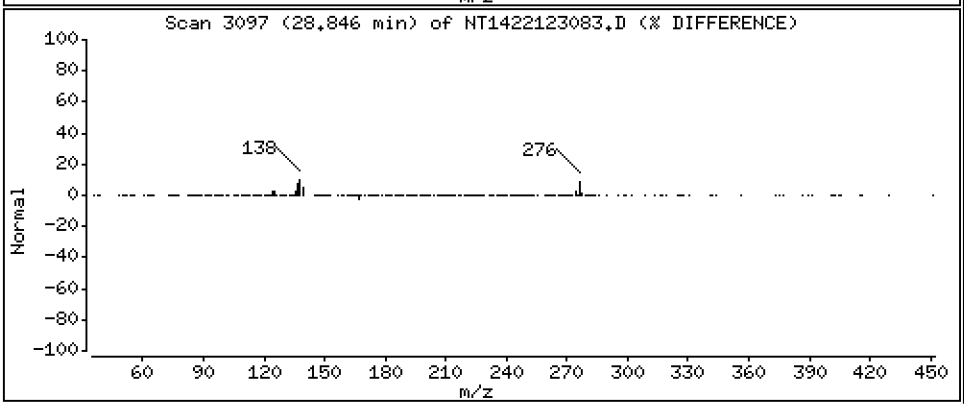












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

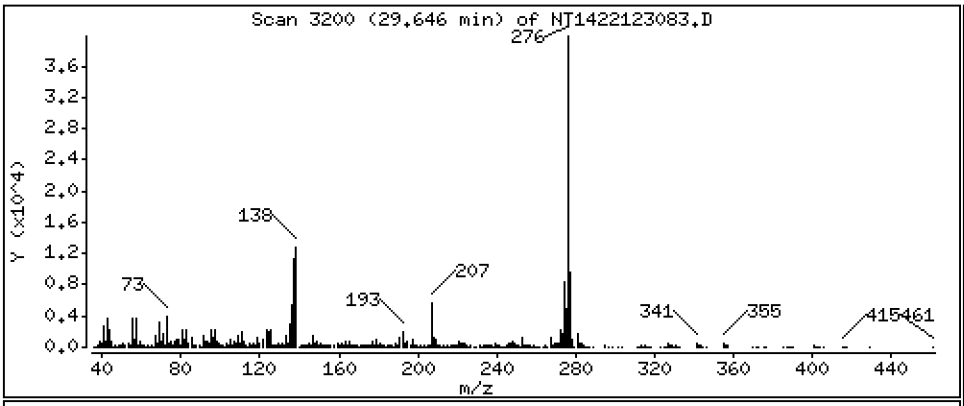
Operator: VTS

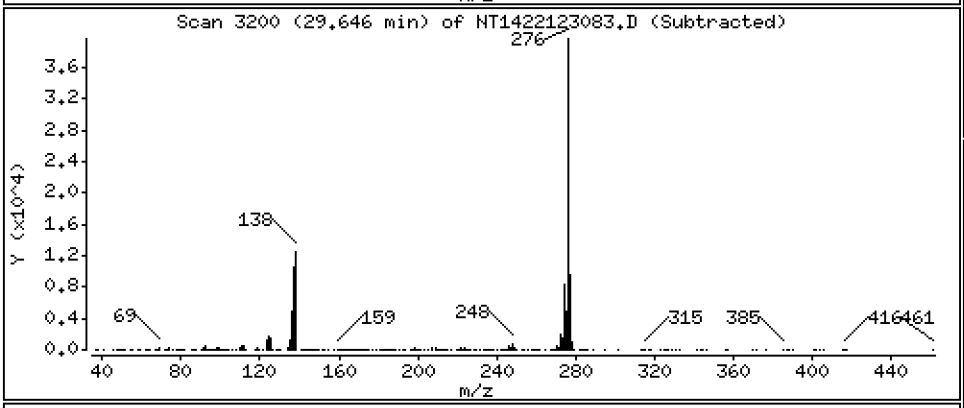
Column phase: ZB-5msi

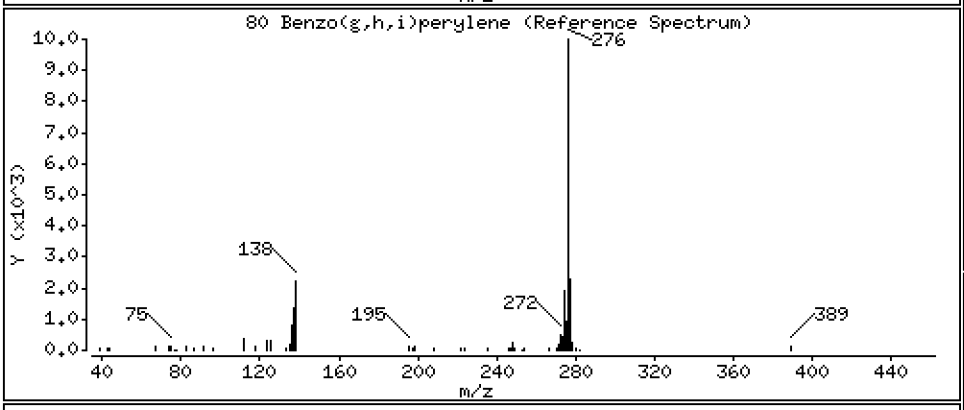
Column diameter: 0.25

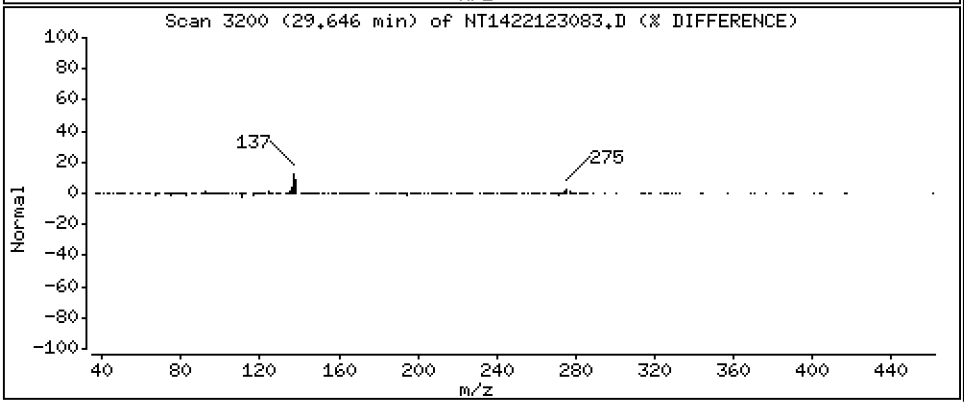
80 Benzo(g,h,i)perylene

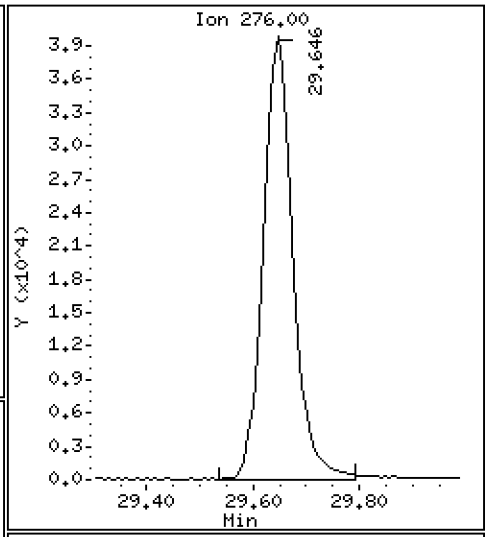
Concentration: 2.081 ug/mL

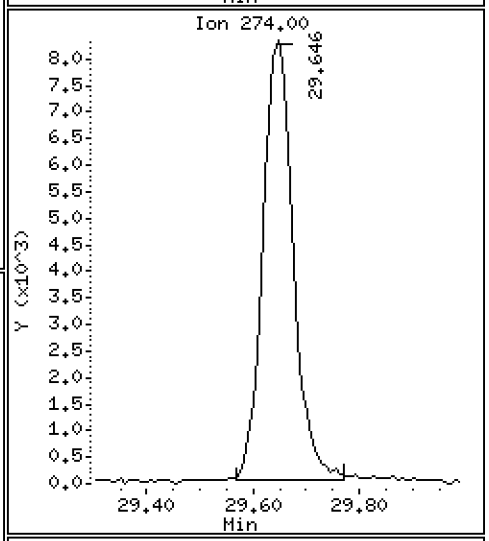


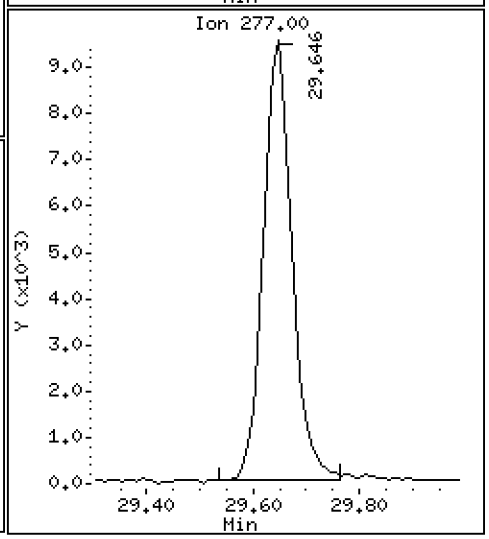












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

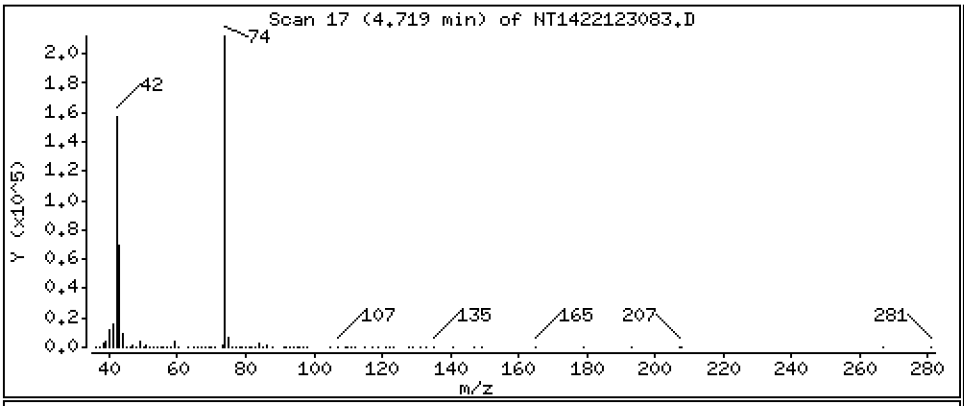
Operator: VTS

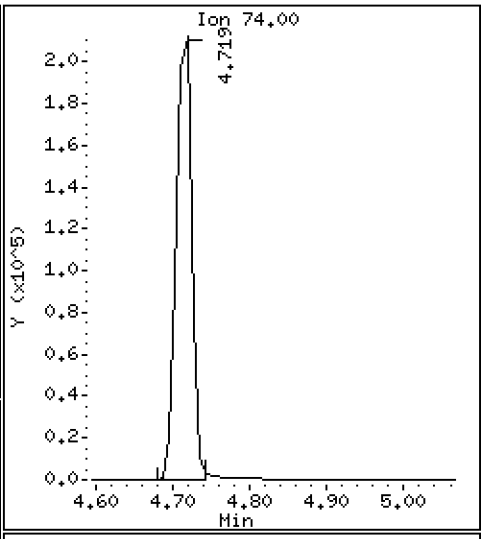
Column phase: ZB-5msi

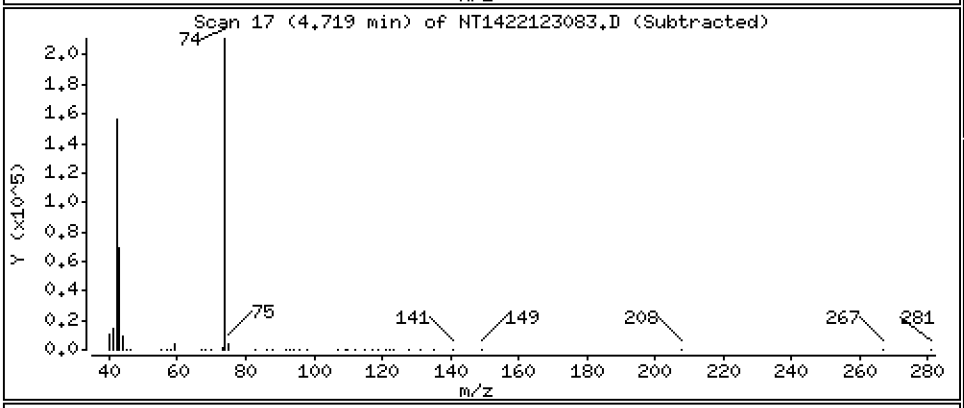
Column diameter: 0.25

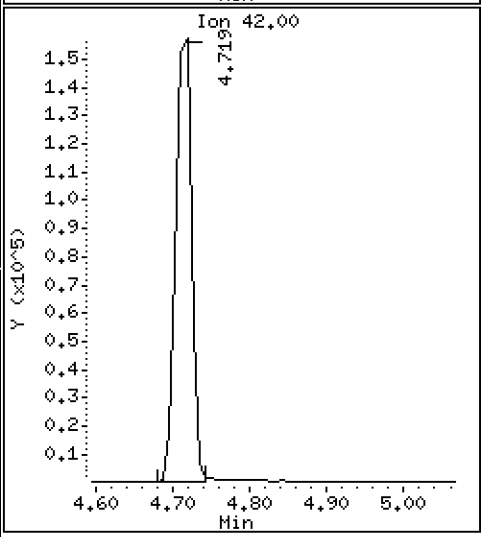
90 N-Nitrosodimethylamine

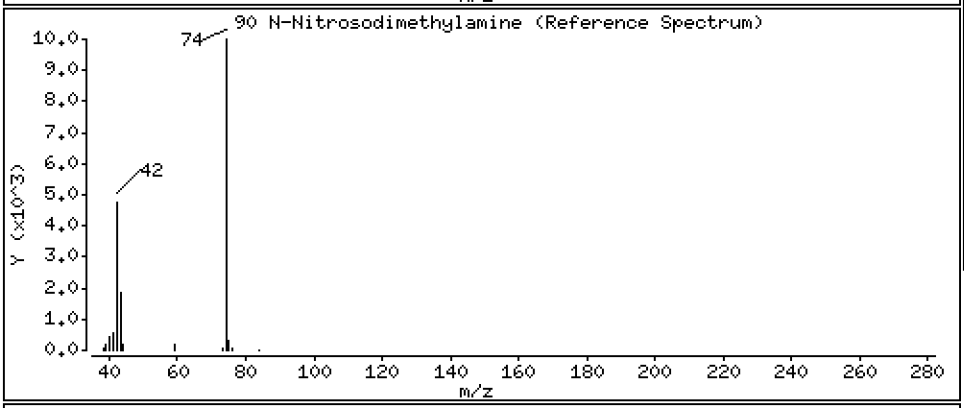
Concentration: 9.625 ug/mL

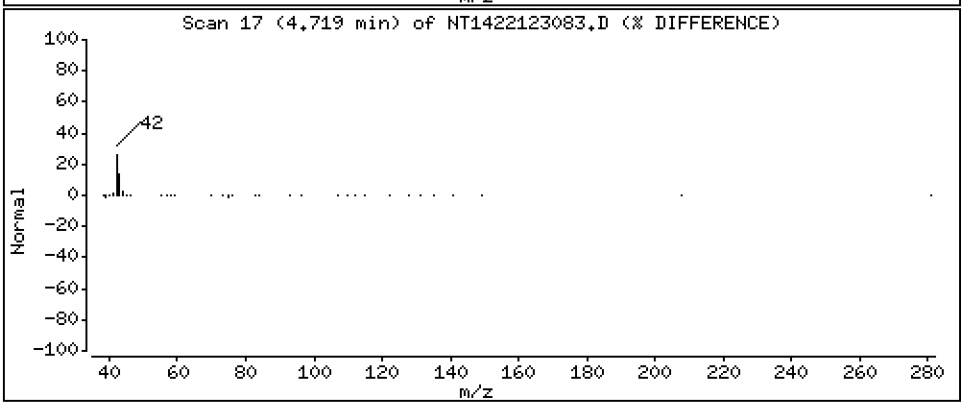












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

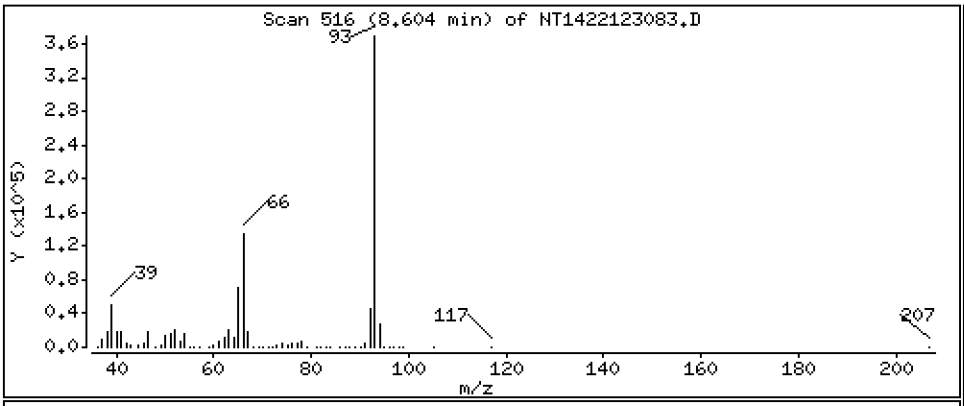
Operator: VTS

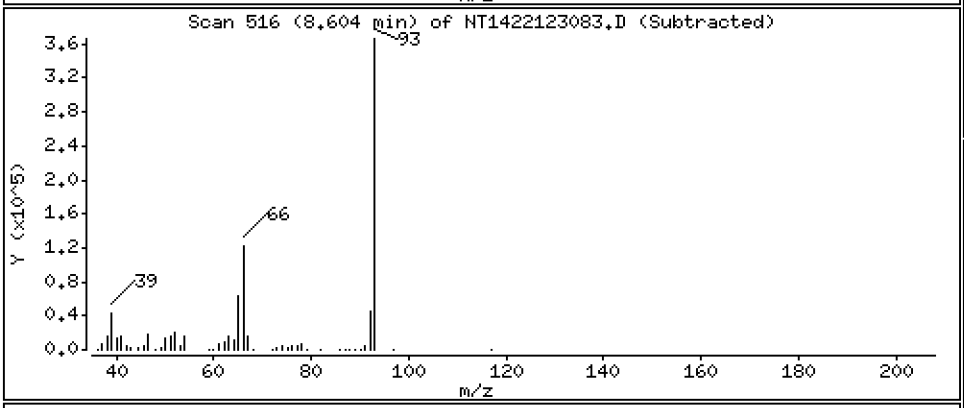
Column phase: ZB-5msi

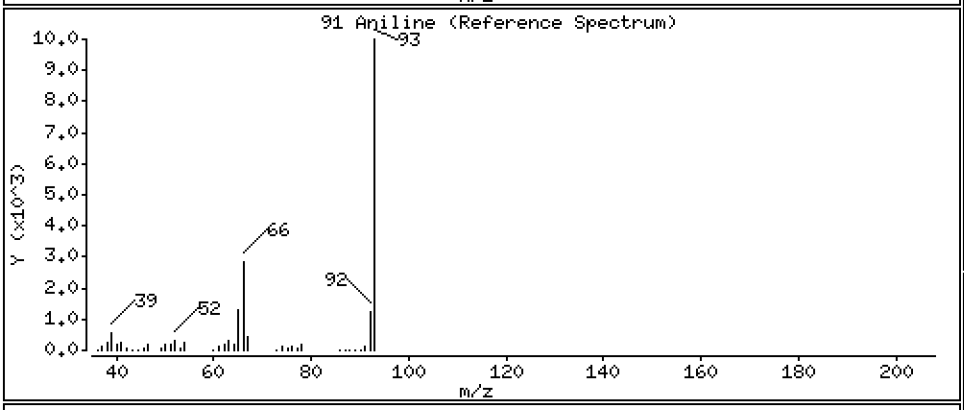
Column diameter: 0.25

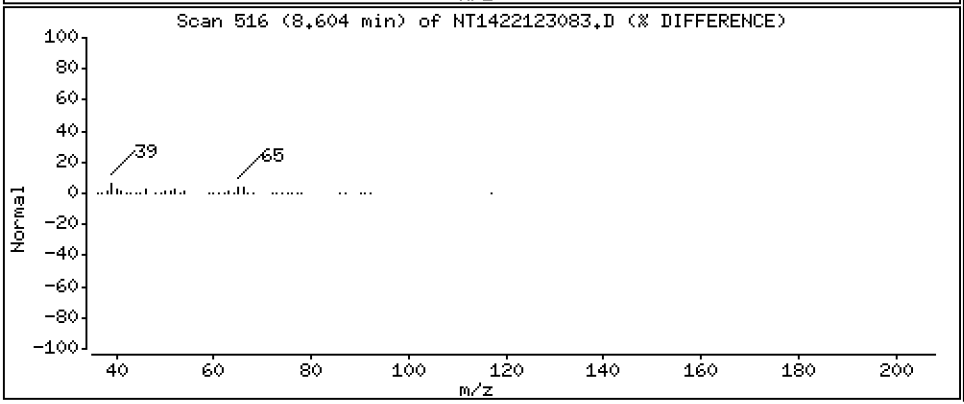
91 Aniline

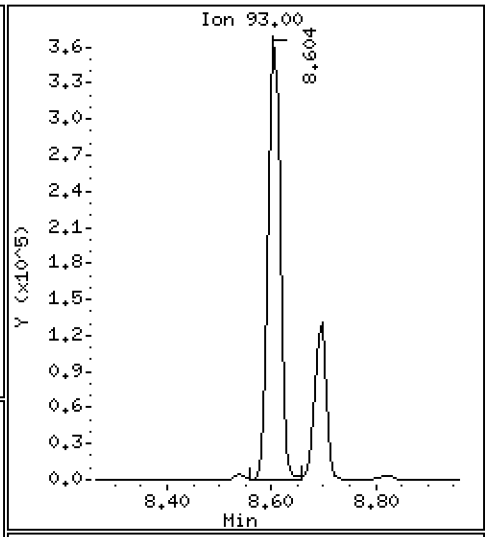
Concentration: 9.483 ug/mL

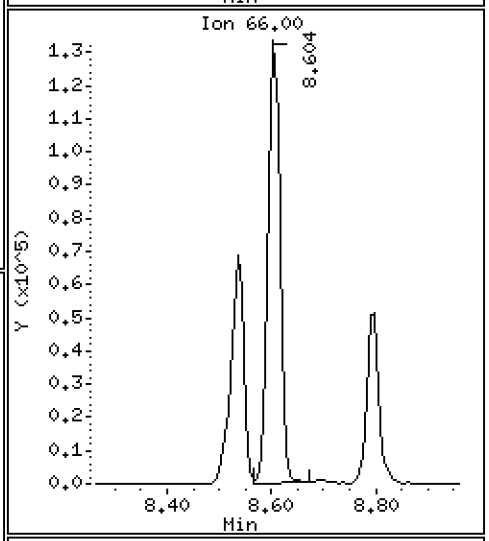


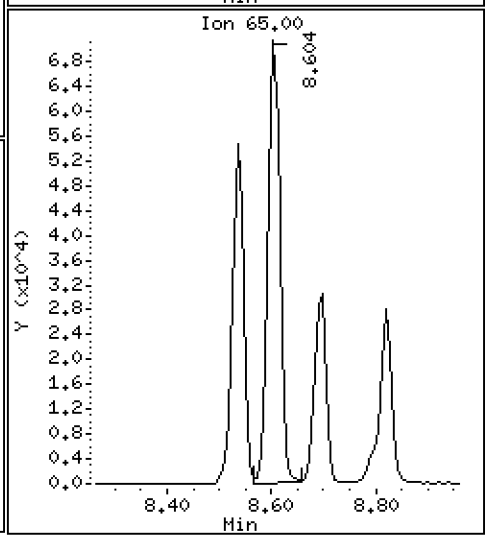












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

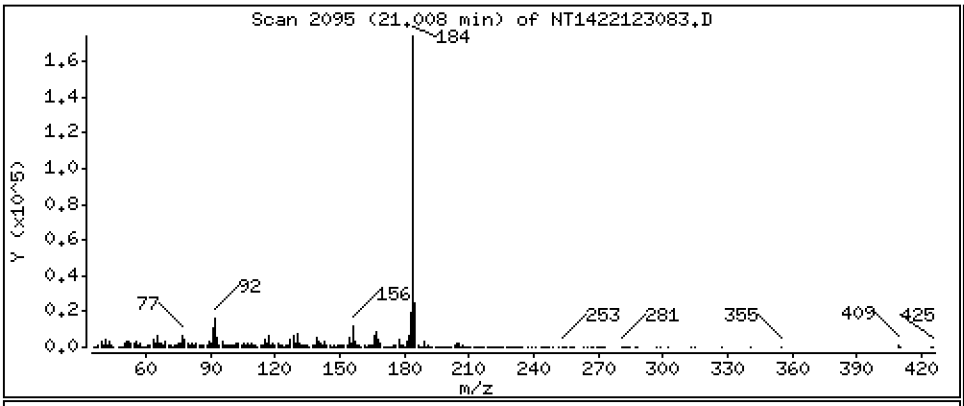
Operator: VTS

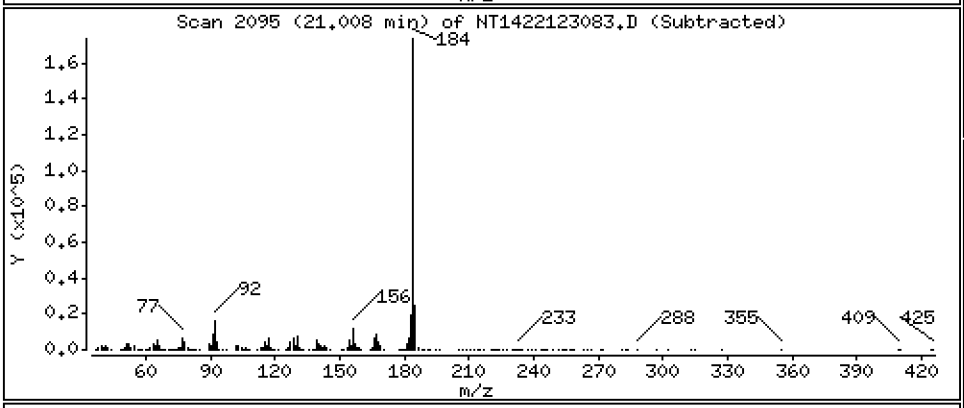
Column phase: ZB-5msi

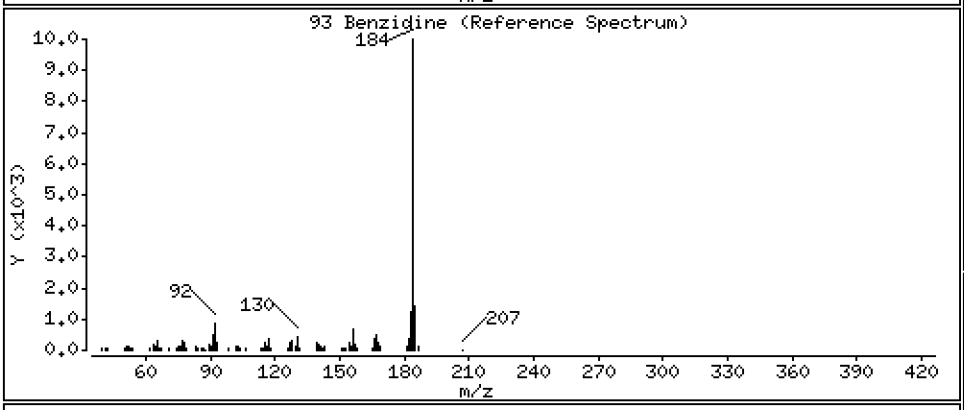
Column diameter: 0.25

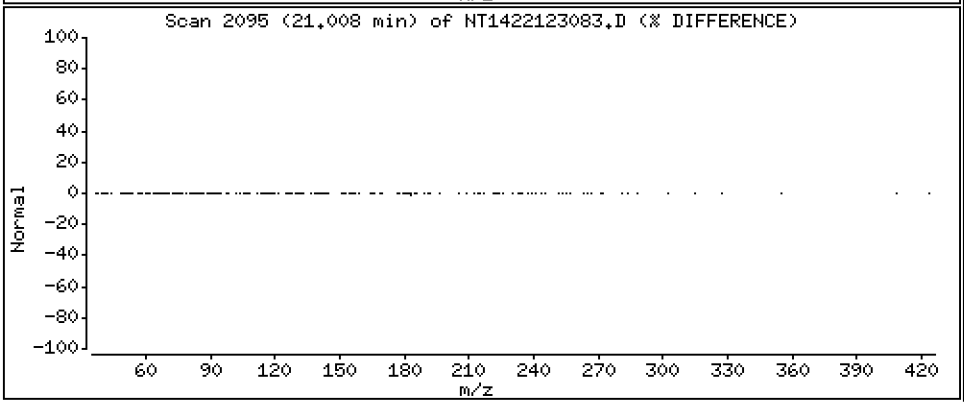
93 Benzidine

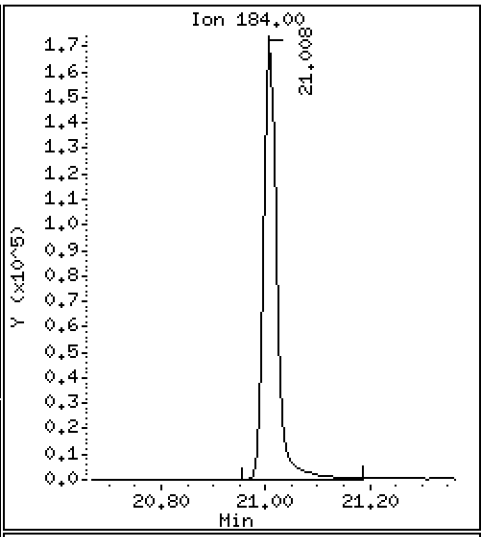
Concentration: 5.898 ug/mL

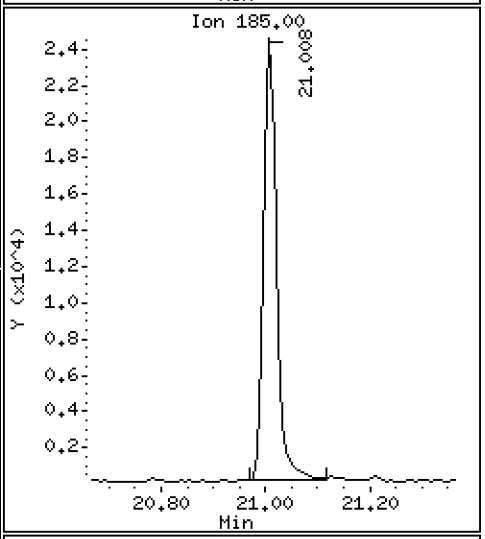


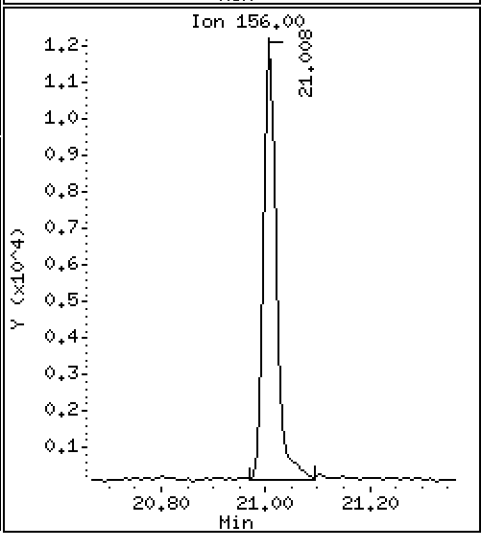












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

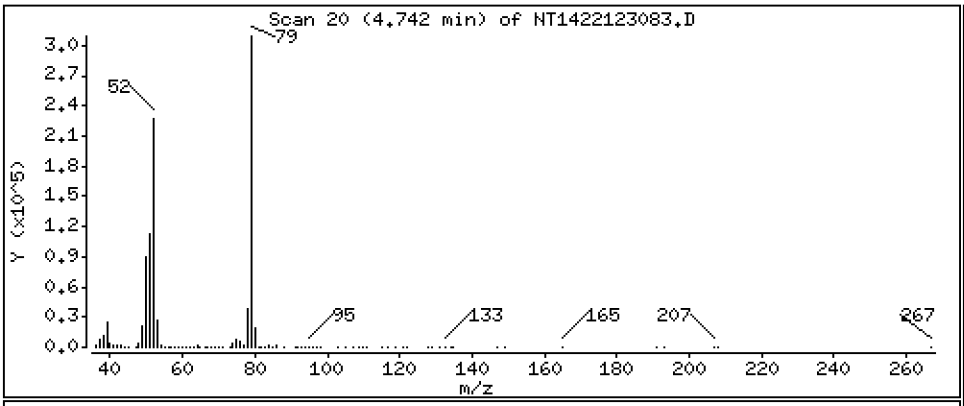
Operator: VTS

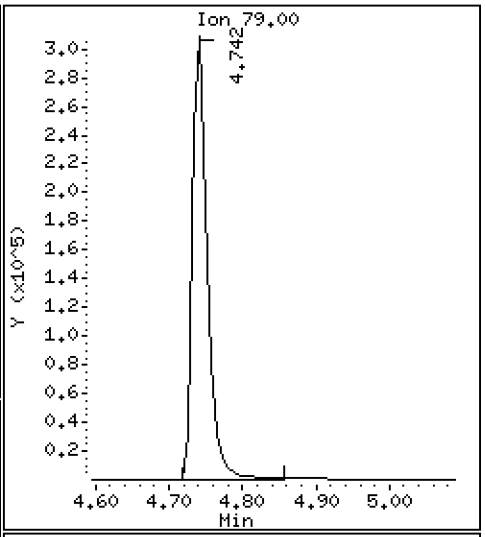
Column phase: ZB-5msi

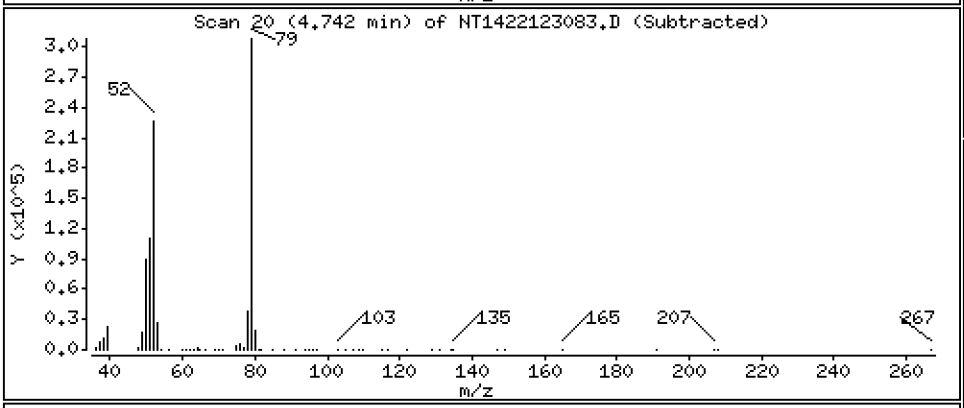
Column diameter: 0.25

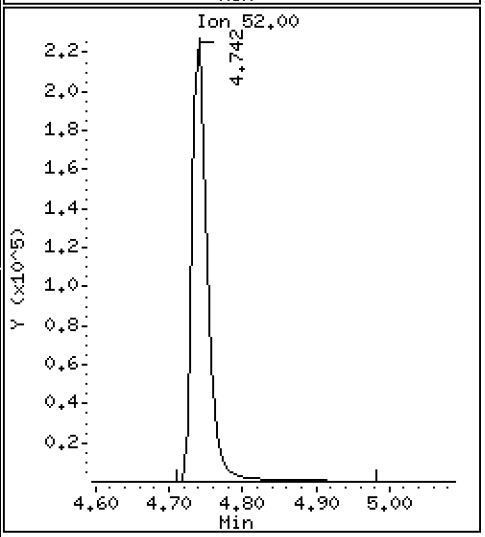
103 Pyridine

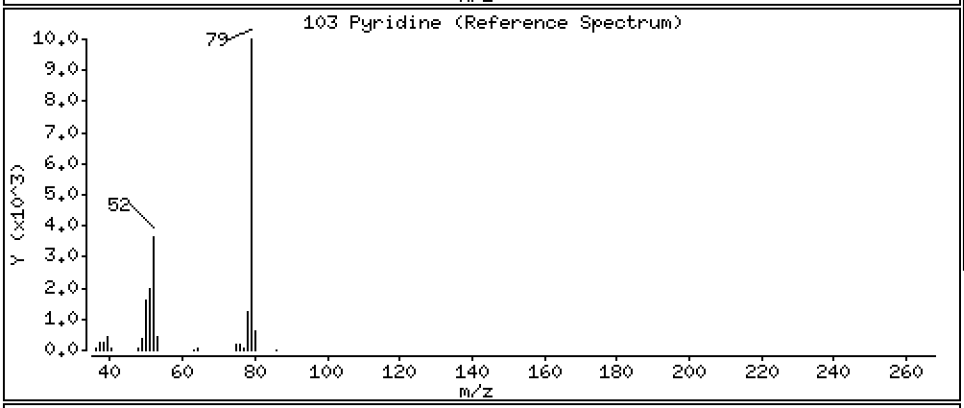
Concentration: 4.600 ug/mL

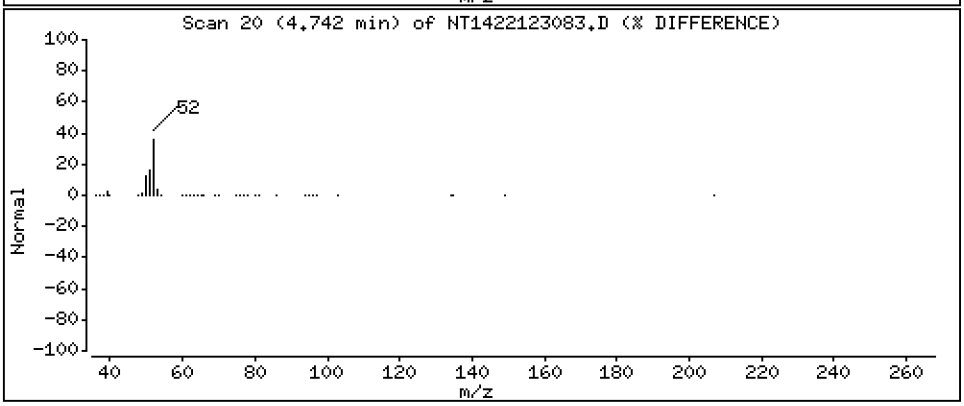












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

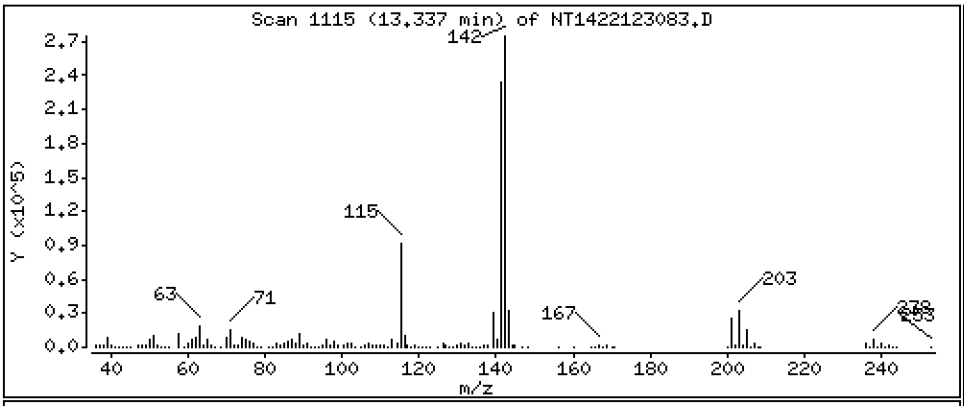
Operator: VTS

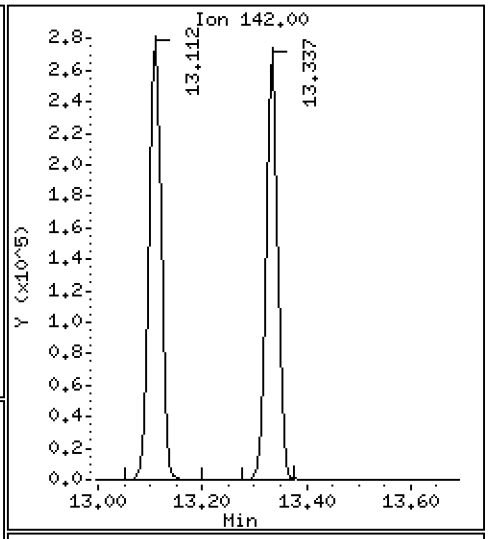
Column phase: ZB-5msi

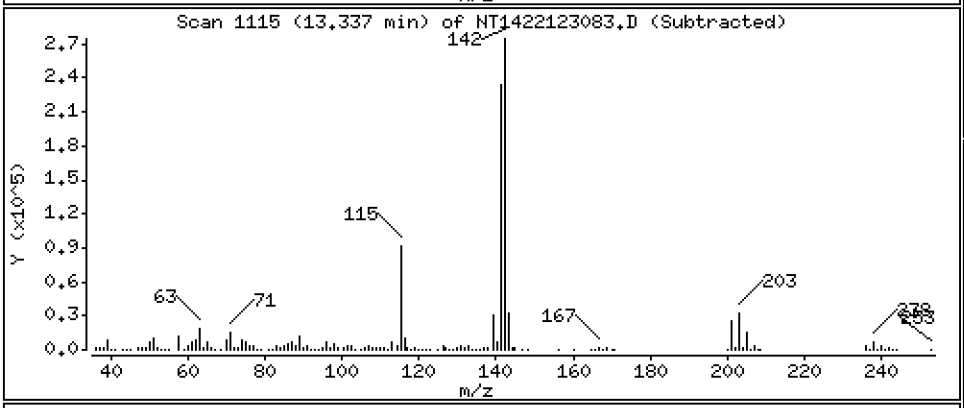
Column diameter: 0.25

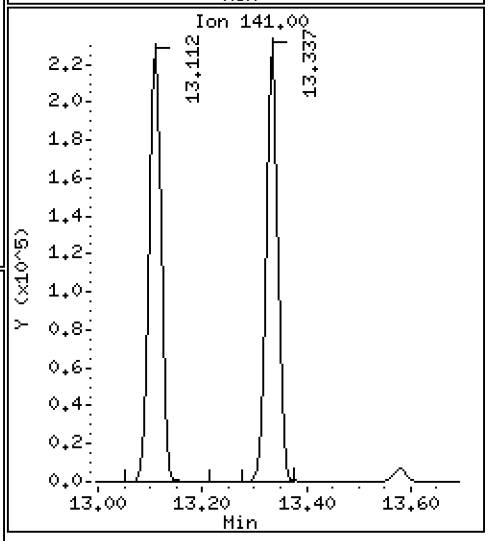
105 1-methylnaphthalene

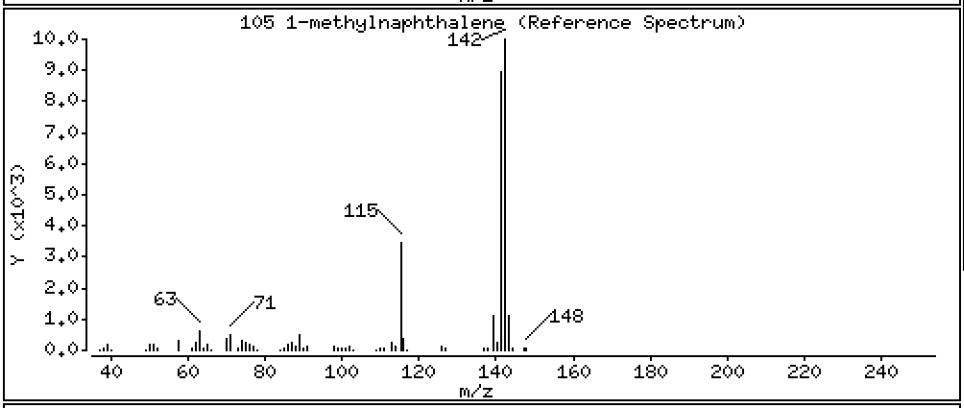
Concentration: 4.806 ug/mL

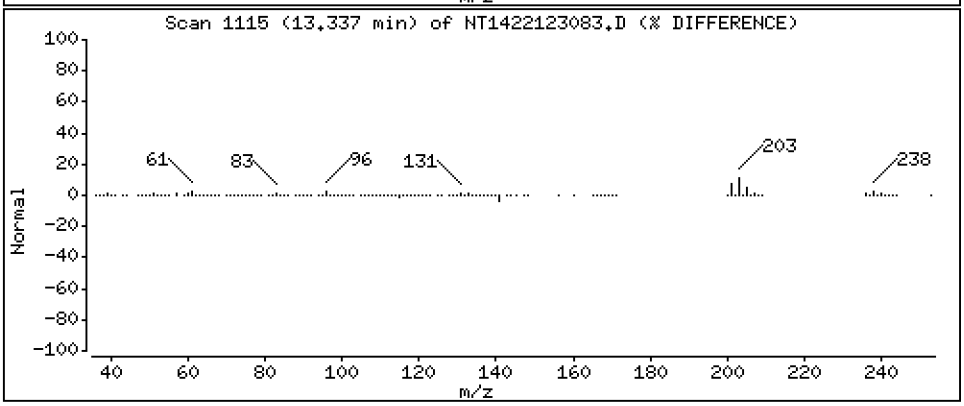












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

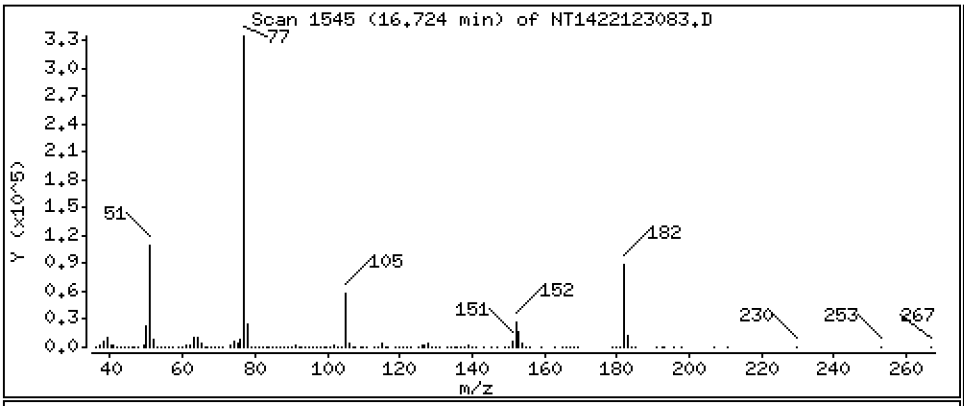
Operator: VTS

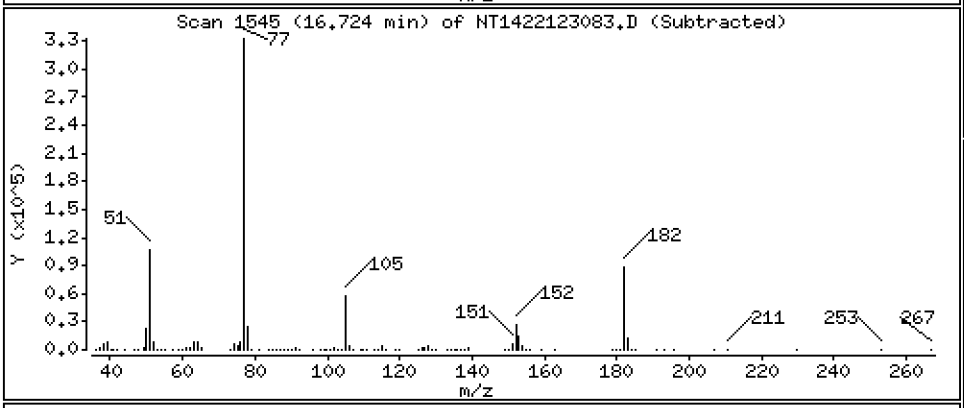
Column phase: ZB-5msi

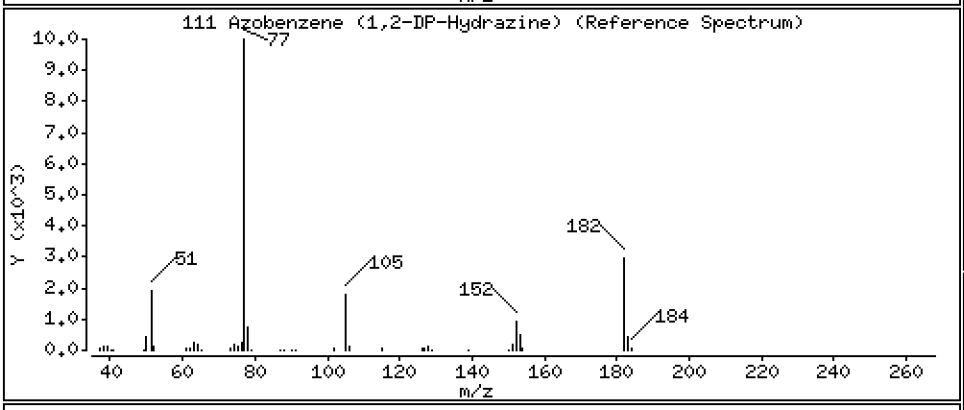
Column diameter: 0.25

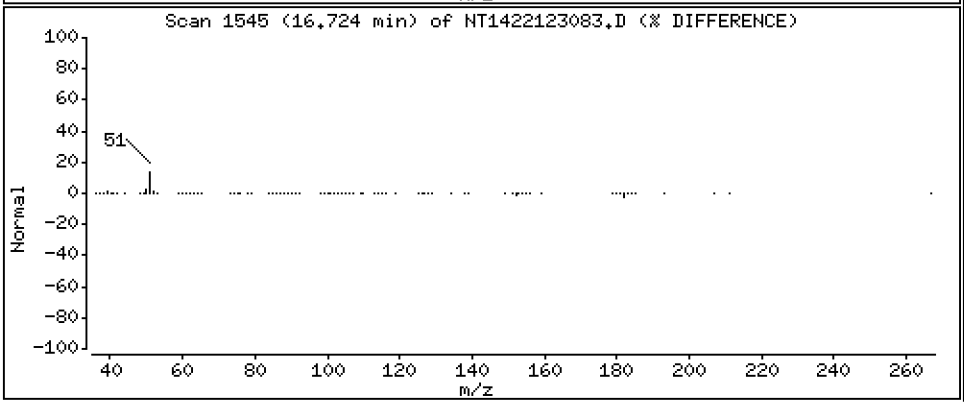
111 Azobenzene (1,2-DP-Hydrazine)

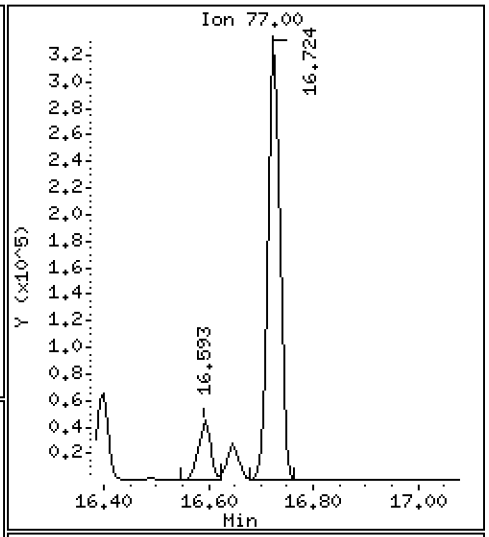
Concentration: 5.023 ug/mL

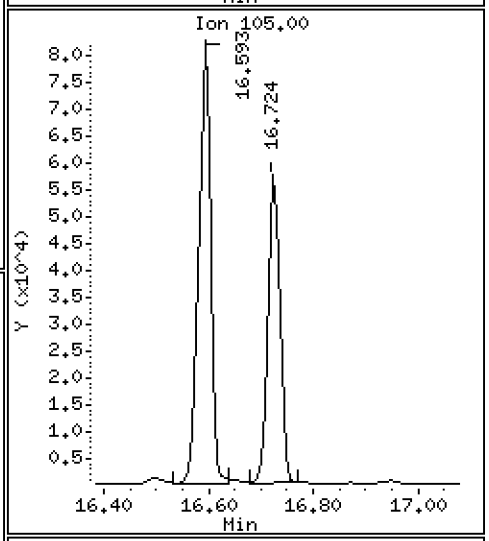


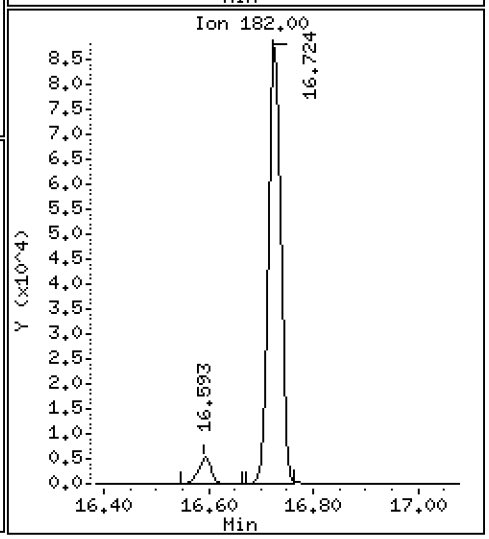












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

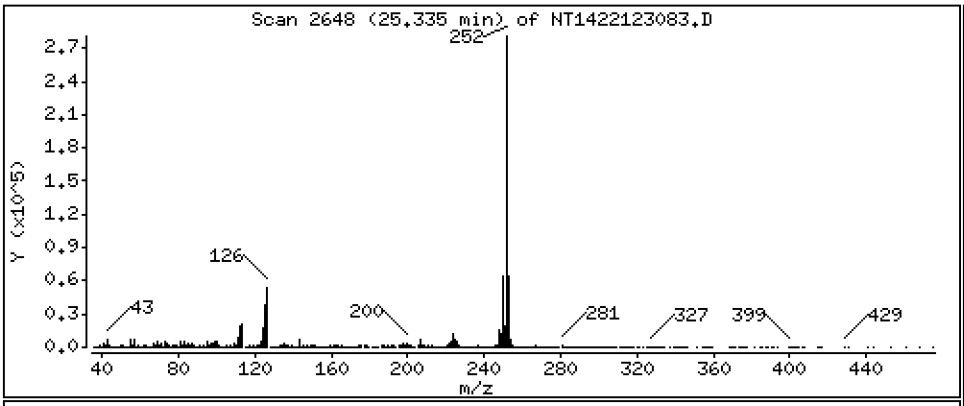
Operator: VTS

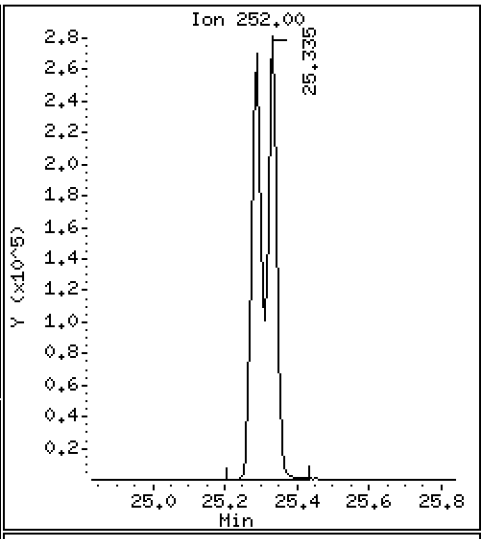
Column phase: ZB-5msi

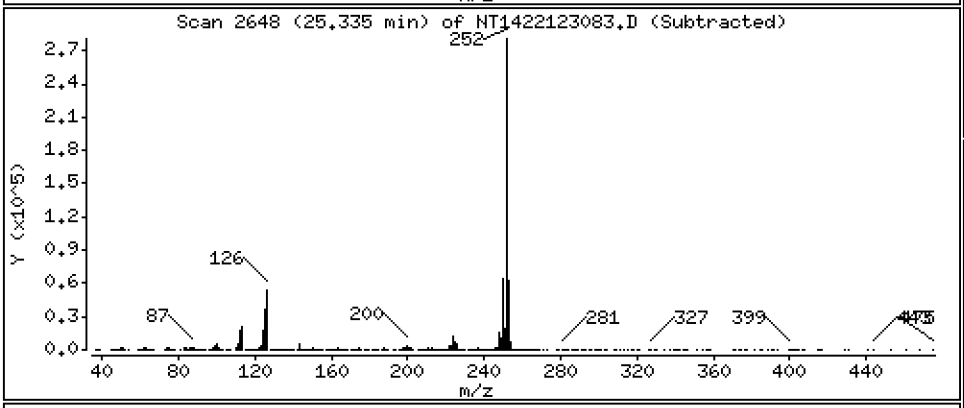
Column diameter: 0.25

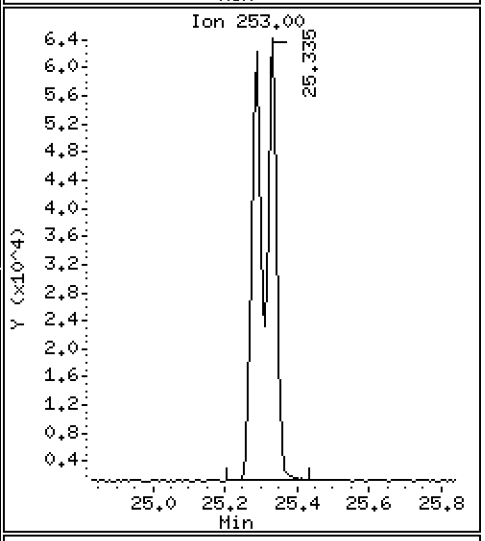
187 Total Benzofluoranthenes

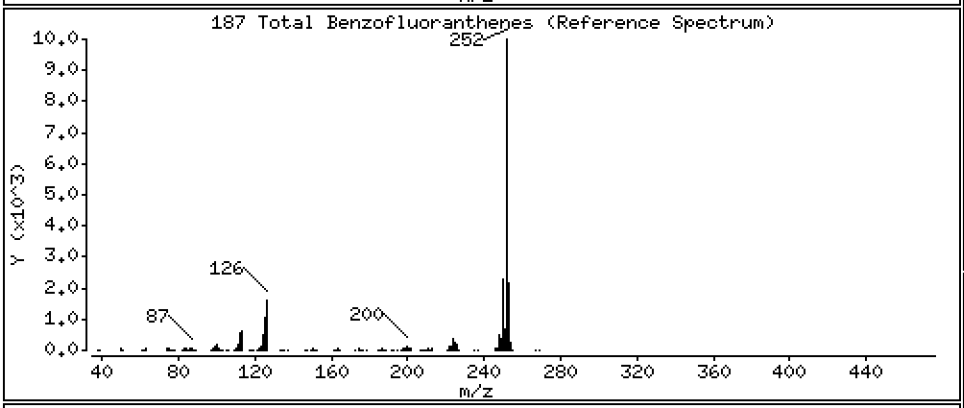
Concentration: 10.88 ug/mL

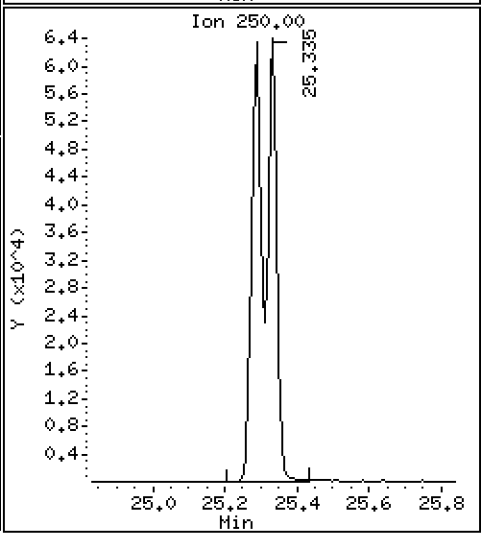


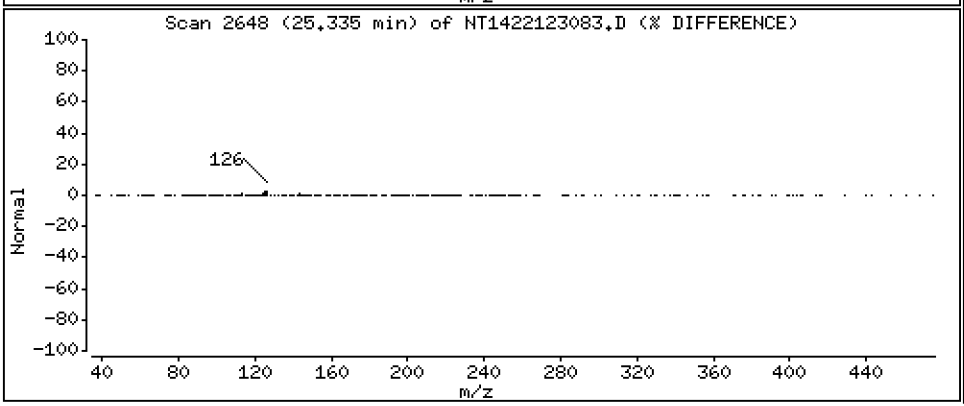












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Date : 01-JAN-2023 09:41

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-CCV1

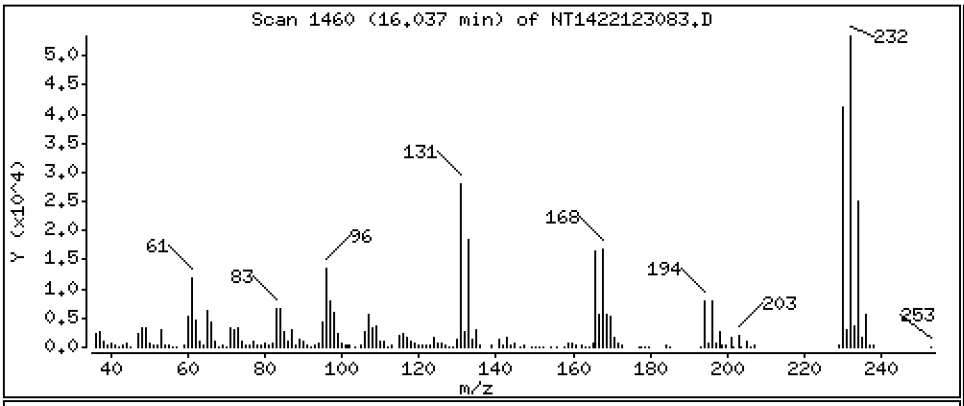
Operator: VTS

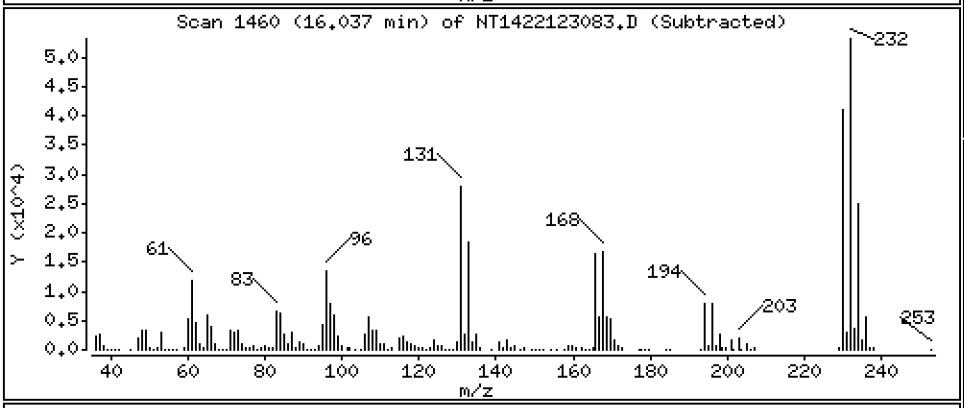
Column phase: ZB-5msi

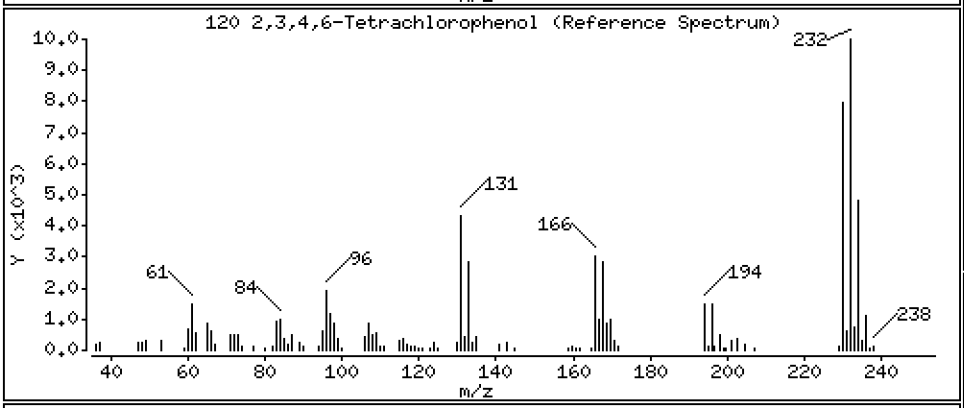
Column diameter: 0.25

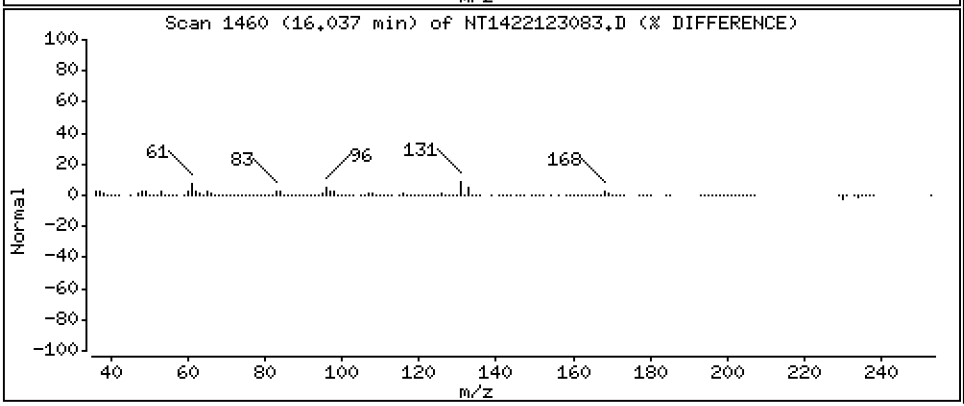
120 2,3,4,6-Tetrachlorophenol

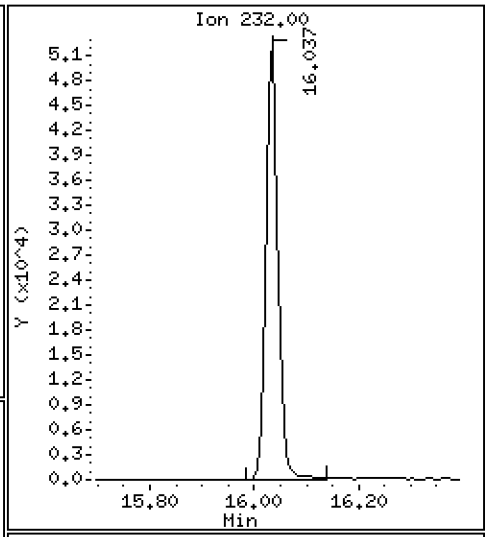
Concentration: 4.218 ug/mL

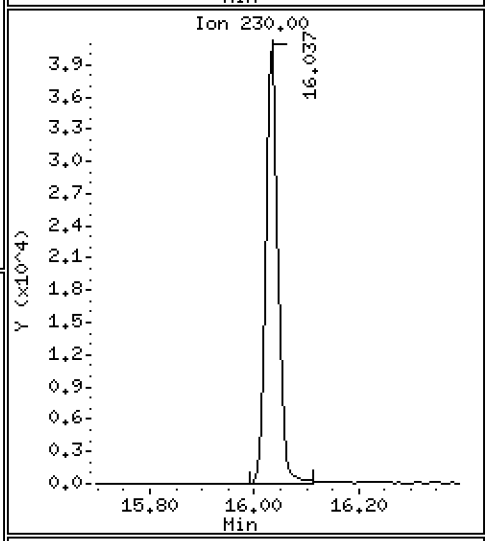


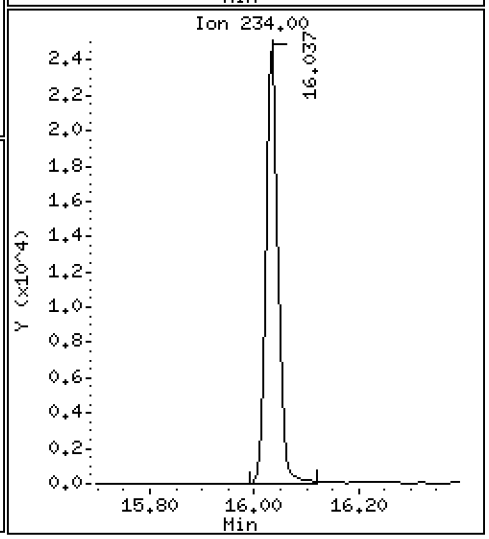












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123083.D
Lab Smp Id: SKL0355-CCV1
Inj Date : 01-JAN-2023 09:41 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.911	6.919	(0.755)	317954	7.41864	7.419
$	2 Phenol-d5	99	8.511	8.519	(0.929)	395412	7.46544	7.465
	3 Phenol	94	8.534	8.542	(0.932)	279794	4.64897	4.649
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	330483	7.42944	7.429
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	189850	4.57926	4.579
	6 2-Chlorophenol	128	8.820	8.827	(0.963)	230007	4.70814	4.708
	7 1,3-Dichlorobenzene	146	9.091	9.098	(0.992)	238135	4.59690	4.597
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	133778	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	225112	4.58694	4.587
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	142874	4.69933	4.699
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	221006	4.59183	4.592
	11 Benzyl alcohol	108	9.432	9.440	(1.030)	130202	4.85961	4.860
	14 2,2'-oxybis(1-Chloropropane)	121	9.727	9.735	(1.062)	59927	4.29457	4.295(M)
	13 2-Methylphenol	108	9.657	9.665	(1.054)	209744	4.79607	4.796
	17 Hexachloroethane	117	10.146	10.154	(1.108)	78936	4.37321	4.373
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	136994	5.14232	5.142
	15 4-Methylphenol	108	9.929	9.936	(1.084)	225049	4.87814	4.878
$	18 Nitrobenzene-d5	82	10.255	10.262	(0.879)	220294	5.25640	5.256
	19 Nitrobenzene	77	10.293	10.301	(0.882)	206381	4.95846	4.958
	20 Isophorone	82	10.744	10.751	(0.921)	282856	5.33213	5.332
	21 2-Nitrophenol	139	10.930	10.937	(0.937)	142150	5.33356	5.334
	22 2,4-Dimethylphenol	107	10.984	10.992	(0.942)	411298	9.46810	9.468
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	190221	4.60949	4.609
	24 Benzoic acid	105	11.209	11.209	(0.961)	451965	16.4657	16.47
	25 2,4-Dichlorophenol	162	11.387	11.395	(0.976)	373973	10.2129	10.21
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	175964	4.44426	4.444
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	496301	4.00000	
	28 Naphthalene	128	11.704	11.712	(1.003)	552449	4.52317	4.523
	29 4-Chloroaniline	127	11.828	11.835	(1.014)	497520	9.87747	9.877
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	92289	4.69792	4.698
	31 4-Chloro-3-methylphenol	107	12.802	12.810	(1.097)	357102	10.3342	10.33
	32 2-Methylnaphthalene	142	13.112	13.120	(1.124)	427934	4.77650	4.777
	33 Hexachlorocyclopentadiene	237	13.576	13.584	(0.887)	73823	3.59434	3.594

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.739	13.739	(0.898)	235219	10.3721	10.37
	35	2,4,5-Trichlorophenol	196	13.816	13.816	(0.903)	259750	9.92421	9.924
$	36	2-Fluorobiphenyl	172	13.894	13.901	(0.908)	425968	4.66291	4.663
	37	2-Chloronaphthalene	162	14.110	14.118	(0.922)	355975	4.58053	4.581
	38	2-Nitroaniline	65	14.366	14.373	(0.939)	230219	11.2677	11.27
	39	Dimethylphthalate	163	14.791	14.799	(0.967)	367075	4.79061	4.791
	40	Acenaphthylene	152	14.985	14.993	(0.979)	597558	5.04276	5.043
	41	2,6-Dinitrotoluene	165	14.931	14.938	(0.976)	175372	10.1416	10.14
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	271703	4.00000	
	43	3-Nitroaniline	138	15.225	15.225	(0.995)	203497	9.68226	9.682
	44	Acenaphthene	153	15.372	15.371	(1.005)	339618	4.62086	4.621
	45	2,4-Dinitrophenol	184	15.433	15.441	(1.009)	201396	13.3028	13.30
	46	Dibenzofuran	168	15.696	15.704	(1.026)	497802	4.51660	4.517
	47	4-Nitrophenol	109	15.549	15.557	(1.016)	94505	9.20145	9.201
	48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	234208	9.87157	9.872
	50	Diethylphthalate	149	16.261	16.268	(1.063)	559670	5.37377	5.374
	49	Fluorene	166	16.415	16.423	(1.073)	600716	5.12342	5.123
	51	4-Chlorophenyl-phenylether	204	16.400	16.407	(1.072)	282388	4.91943	4.919
	52	4-Nitroaniline	138	16.500	16.500	(1.078)	232544	9.00330	9.003
	53	4,6-Dinitro-2-methylphenol	198	16.592	16.600	(0.904)	303918	16.4565	16.46
	54	N-Nitrosodiphenylamine	169	16.646	16.654	(0.907)	349395	4.79973	4.800
$	55	2,4,6-Tribromophenol	330	16.947	16.955	(1.108)	88986	6.74321	6.743
	56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	130215	4.72400	4.724
	57	Hexachlorobenzene	284	17.727	17.734	(0.966)	137713	4.55263	4.553
	58	Pentachlorophenol	266	18.083	18.090	(0.985)	82791	6.13040	6.130
*	59	Phenanthrene-d10	188	18.353	18.361	(1.000)	424221	4.00000	
	60	Phenanthrene	178	18.400	18.408	(1.003)	498567	4.50755	4.508
	61	Anthracene	178	18.493	18.500	(1.008)	518262	4.90821	4.908
	62	Carbazole	167	18.818	18.825	(1.025)	484405	4.74546	4.745
	63	Di-n-butylphthalate	149	19.607	19.614	(1.068)	646156	5.36383	5.364
	64	Fluoranthene	202	20.783	20.791	(0.888)	579163	4.61703	4.617
	65	Pyrene	202	21.208	21.216	(0.906)	596174	4.52023	4.520
$	66	Terphenyl-d14	244	21.487	21.495	(0.918)	400031	4.27757	4.278
	67	Butylbenzylphthalate	149	22.401	22.408	(0.957)	275908	5.43982	5.440
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	568721	4.81897	4.819
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	389585	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.314	23.322	(0.996)	609561	16.8723	16.87
	71	Chrysene	228	23.438	23.446	(1.002)	526209	4.72033	4.720
	72	bis(2-Ethylhexyl)phthalate	149	23.423	23.430	(0.959)	372110	4.87023	4.870
*	134	Di-n-octylphthalate-d4	153	24.414	24.421	(1.000)	687974	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.001)	709063	4.29363	4.294
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.970)	521340	5.55264	5.553
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	511175	5.34917	5.349
	76	Benzo(a)pyrene	252	25.962	25.970	(0.996)	391315	5.01357	5.014
*	77	Perylene-d12	264	26.078	26.086	(1.000)	298756	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.838	28.838	(1.106)	228030	2.57003	2.570
	79	Dibenzo(a,h)anthracene	278	28.846	28.853	(1.106)	207084	2.74656	2.747
	80	Benzo(g,h,i)perylene	276	29.646	29.653	(1.137)	154703	2.08134	2.081
	90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	284104	9.62507	9.625
	91	Aniline	93	8.604	8.611	(0.939)	555688	9.48271	9.483
	93	Benzidine	184	21.007	21.015	(0.898)	288297	5.89835	5.898
	103	Pyridine	79	4.741	4.741	(0.518)	431484	4.60040	4.600
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	413739	4.80634	4.806
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.724	16.731	(1.093)	506820	5.02307	5.023

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.335	25.335	(0.971)	987382	10.8776	10.88
120 2,3,4,6-Tetrachlorophenol	232	16.036	16.044	(1.048)	83545	4.21762	4.218

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123083.D
Lab Smp Id: SKL0355-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	133778	-3.59
27 Naphthalene-d8	501723	250862	1003446	496301	-1.08
42 Acenaphthene-d10	275234	137617	550468	271703	-1.28
59 Phenanthrene-d10	440085	220043	880170	424221	-3.60
69 Chrysene-d12	384795	192398	769590	389585	1.24
134 Di-n-octylphthala	674530	337265	1349060	687974	1.99
77 Perylene-d12	336665	168333	673330	298756	-11.26

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.41	-0.03
77 Perylene-d12	26.09	25.59	26.59	26.08	-0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123083.D

Lab ID: SKL0355-CCV1
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 09:41

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1422123066.D

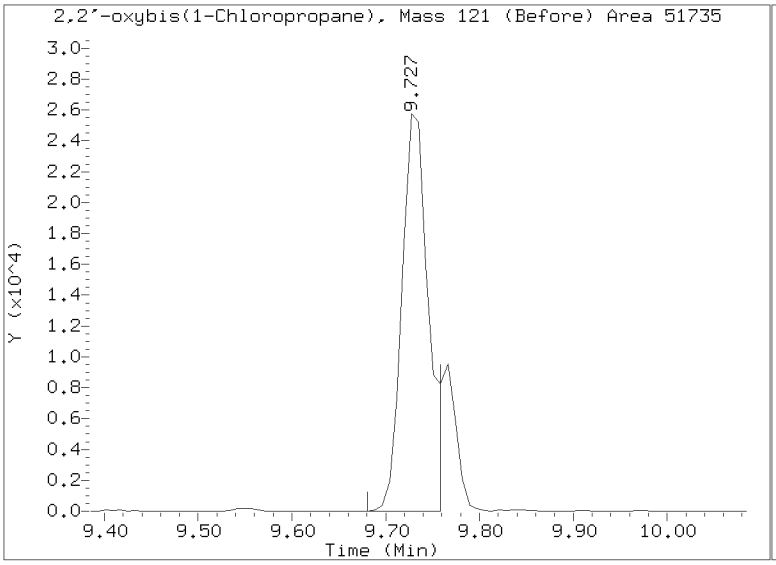
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

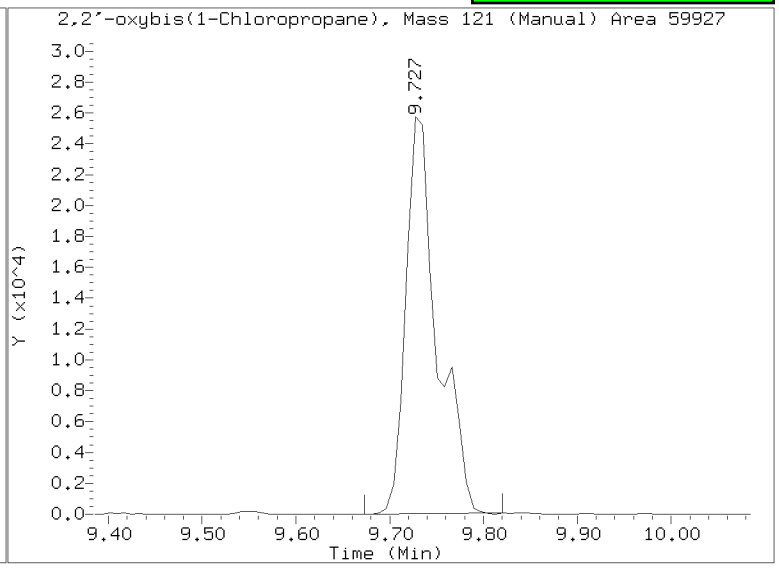
* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123083.D
Injection Date: 01-JAN-2023 09:41
Lab ID:SKL0355-CCV1 Client ID:
Report Date: 01/04/2023 14:27

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0643140		14.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4816530		19.5	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7203190		17.8	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9026260		22.8	+/-50
1,4-Dichlorobenzene	A	0.20000	0.2	1.4674070	1.8246170		24.3	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7502170		21.6	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6500168		-18.9	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.4665069		11.8	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.5306240		17.1	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.4735517		-12.3	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.8792323		10.4	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4627520		6.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3780682		12.7	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4201436		-1.7	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2077004		1.4	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.3988007		13.9	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3920620		17.9	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3048823		3.3	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3864269		21.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1700810		18.9	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0465600		-78.2	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4118553		1.5	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1760029		11.2	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.2791957		0.3	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8053026		11.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.02	0.3023695	0.0162513		-94.6	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.4	0.3338641	0.3126991		-6.3	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.4157471		7.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3567070		18.6	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.2987101		-0.7	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9676080		12.8	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2584600		11.6	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2237324		-12.1	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2721260		17.6	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.3	0.3094189	0.2607134		-15.7	+/-50
2,4-Dinitrophenol	A	0.80000	0.005	0.1831718	0.0014312		-99.3	+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9508950		20.2	+/-50
4-Nitrophenol	A	0.40000	0.2	0.1384031	0.0879048		-40.6	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2636682		-24.5	+/-50
Fluorene	A	0.20000	0.2	1.7261350	1.9622530		13.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.9033324		6.9	+/-50
Diethyl phthalate	A	0.20000	0.2	1.5332690	1.7458150		13.9	+/-50
4-Nitroaniline	A	0.40000	0.3	0.3413732	0.2911846		-21.8	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.2	0.1530278	0.0423797		-74.8	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.2	0.6863845	0.8312522		21.1	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2955359		13.7	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3266661		14.5	+/-50
Pentachlorophenol	A	0.40000	0.08	0.1128364	0.0236786		-80.8	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2592500		20.7	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.0865090		9.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.0462870		8.7	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.0352390		-4.7	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.4861000		15.4	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.4975920		10.6	+/-50
Butylbenzylphthalate	A	0.20000	0.2	0.4650792	0.5311603		4.0	+/-50
Benzo(a)anthracene	A	0.20000	0.2	1.2117210	1.4633910		20.8	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.7	0.3709370	0.4304254		16.0	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3813490		20.7	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.2	0.4442323	0.4854060		9.3	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1615200		21.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5457340		27.2	+/-50
Benzo(a)pyrene	A	0.20000	0.2	1.0450150	1.2622770		20.8	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8474652		-28.7	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.1	1.0094890	0.7555898		-25.2	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.6117218		-38.5	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.8037999		15.9	+/-50
2-Fluorophenol	A	0.30000	0.344	1.2814900	1.4710570		14.8	+/-50
Phenol-d5	A	0.30000	0.307	1.5836890	1.6214620		2.4	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123051.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV1	Injection Time:	14:29
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.332	1.3300510	1.4726610		10.7	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.241	0.9090592	1.0955610		20.5	+/-50
Nitrobenzene-d5	A	0.20000	0.214	0.3377760	0.3615386		7.0	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.5008450		11.6	+/-50
2,4,6-Tribromophenol	A	0.30000	0.212	0.1844845	0.1322265		-29.4	+/-50
p-Terphenyl-d14	A	0.20000	0.218	0.9601842	1.0445280		8.8	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

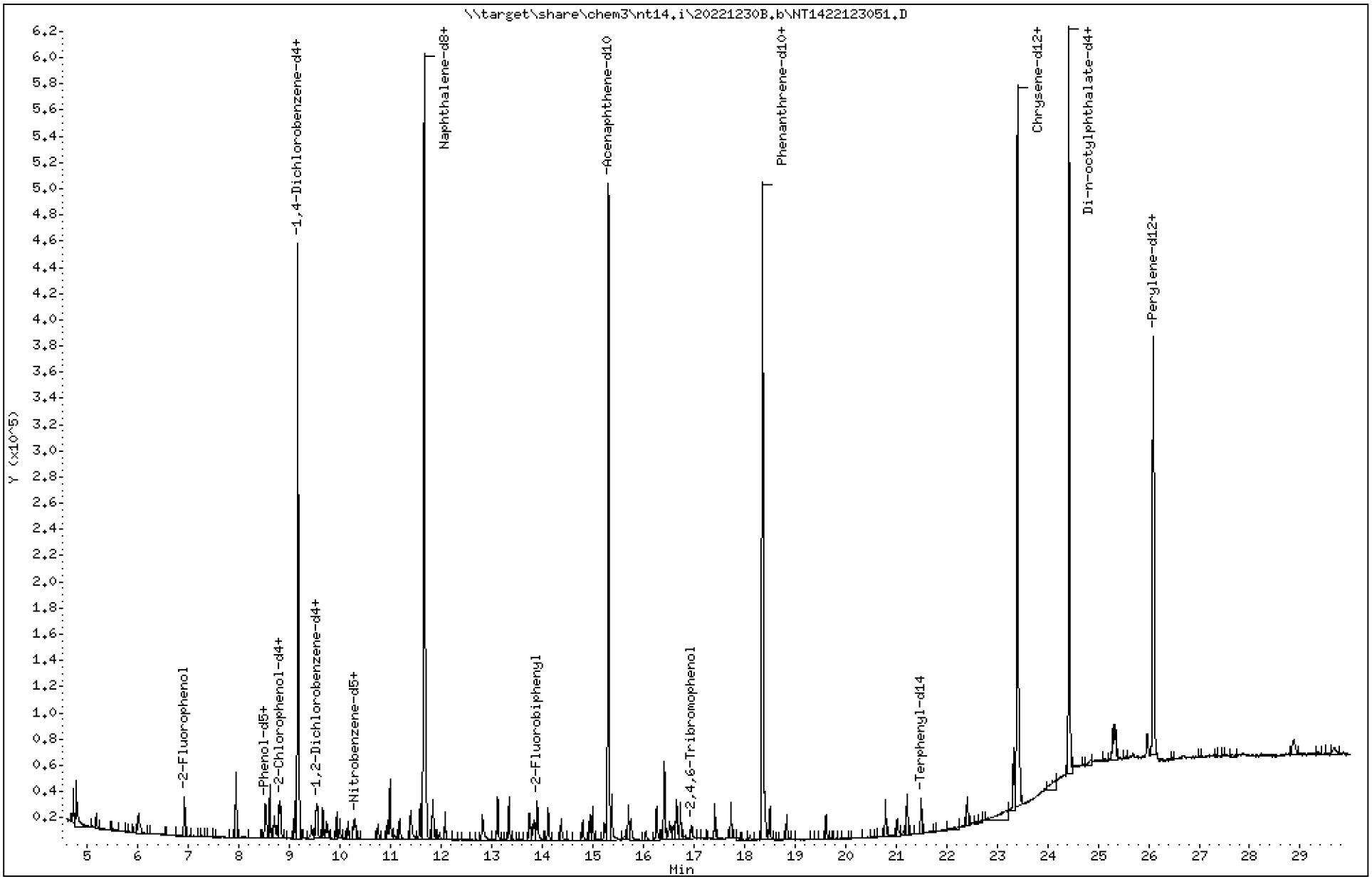
Instrument: nt14.i

Sample Info: SKL0355-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

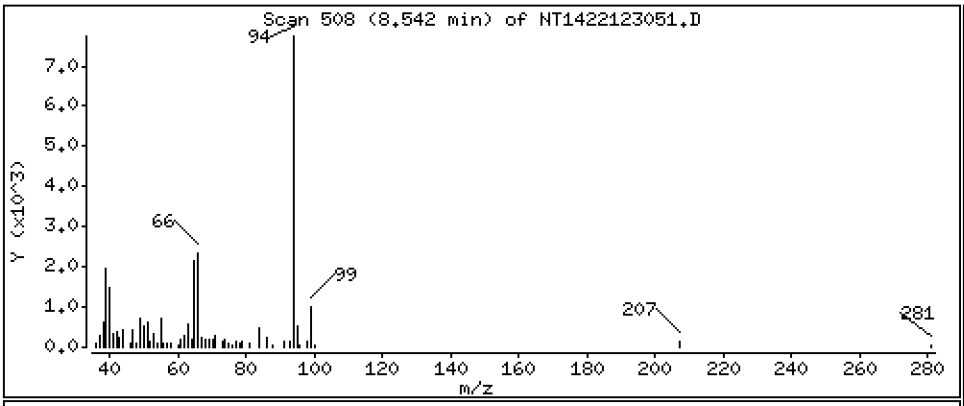
Operator: VTS

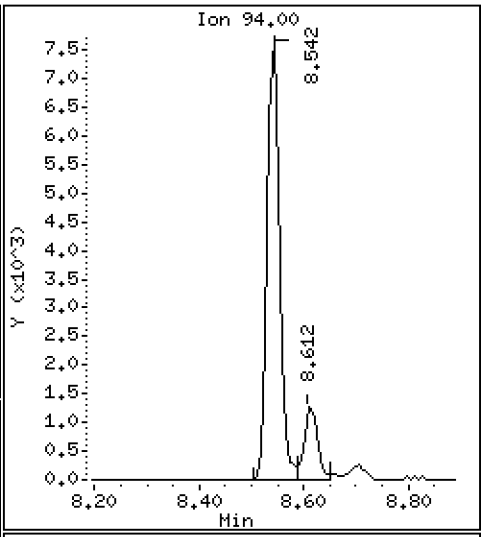
Column phase: ZB-5msi

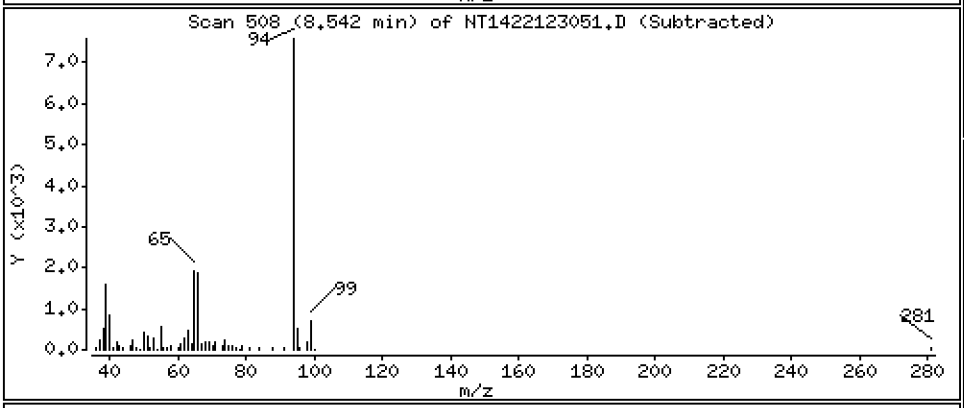
Column diameter: 0.25

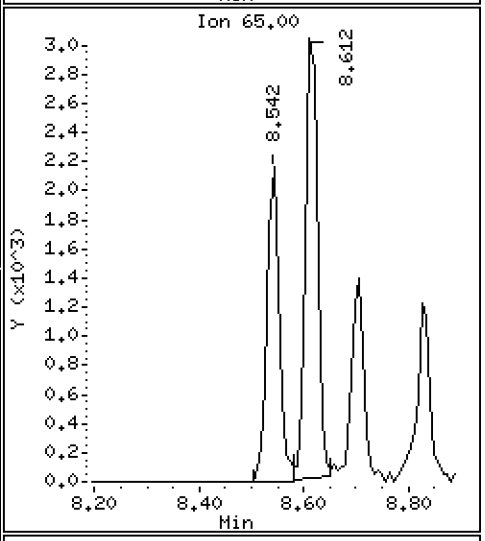
3 Phenol

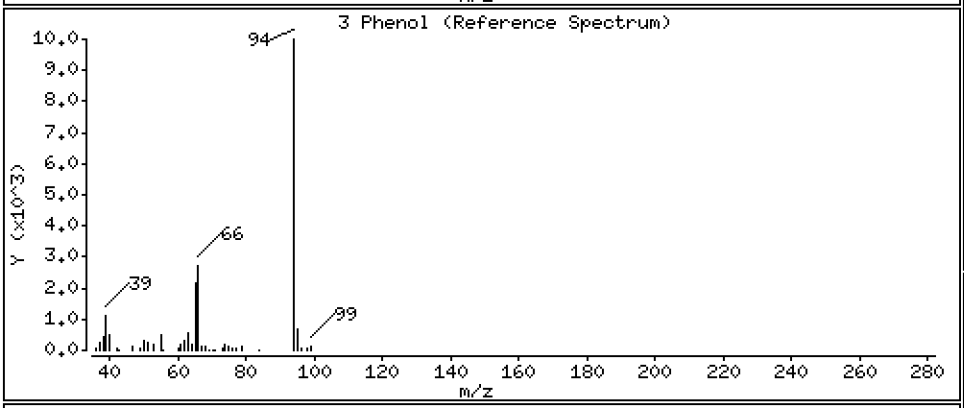
Concentration: 0.2294 ug/mL

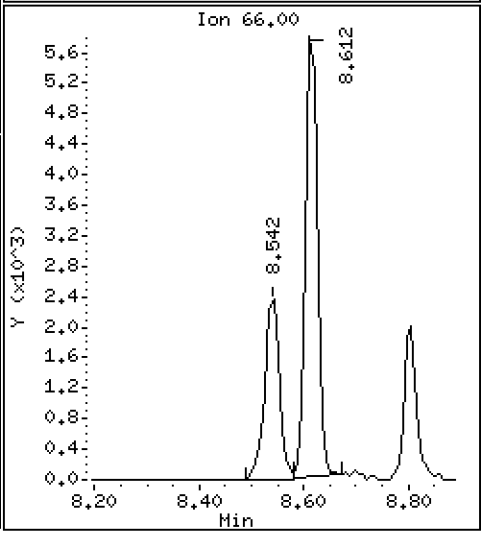


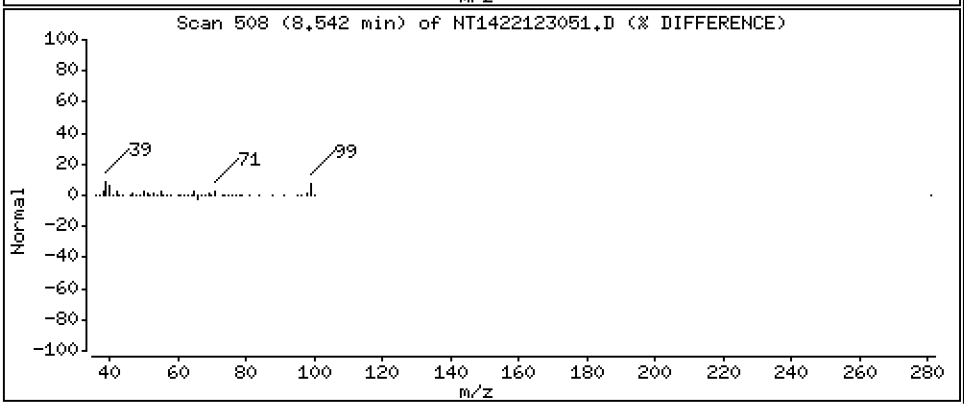












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

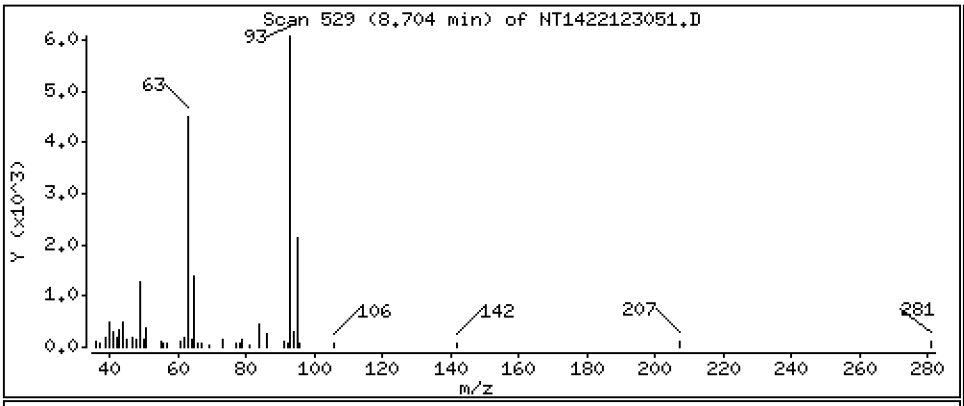
Operator: VTS

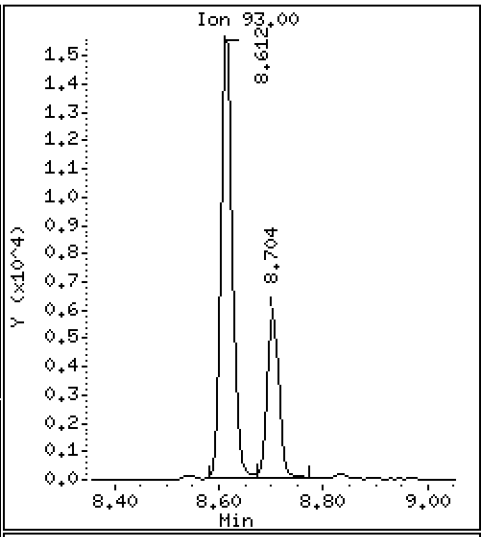
Column phase: ZB-5msi

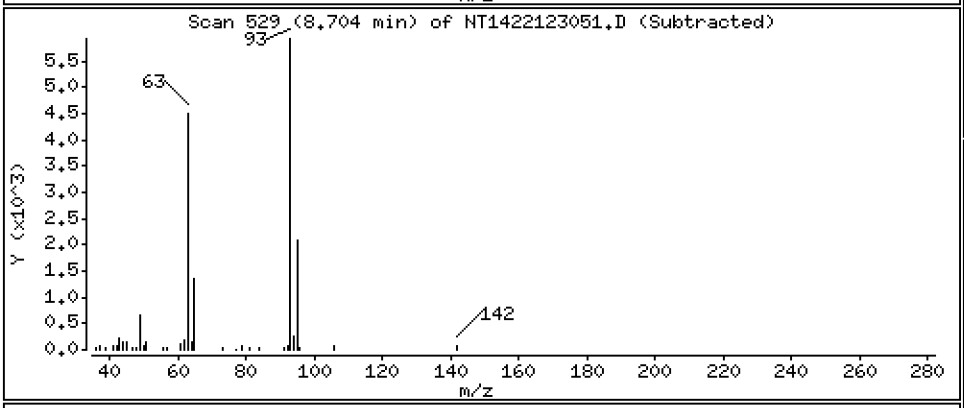
Column diameter: 0.25

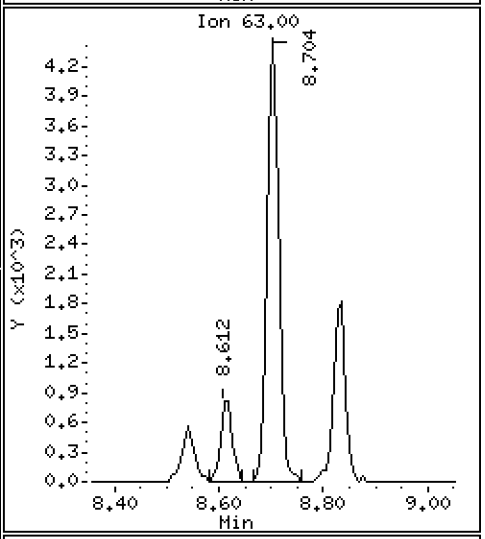
4 Bis(2-Chloroethyl)ether

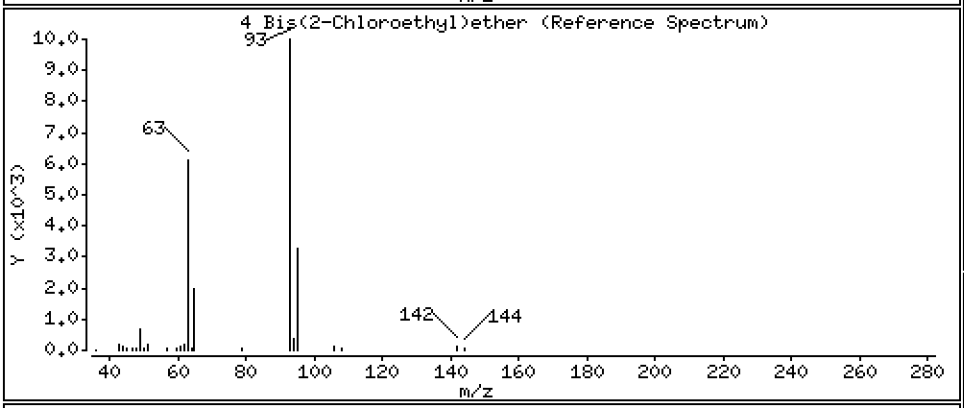
Concentration: 0.2390 ug/mL

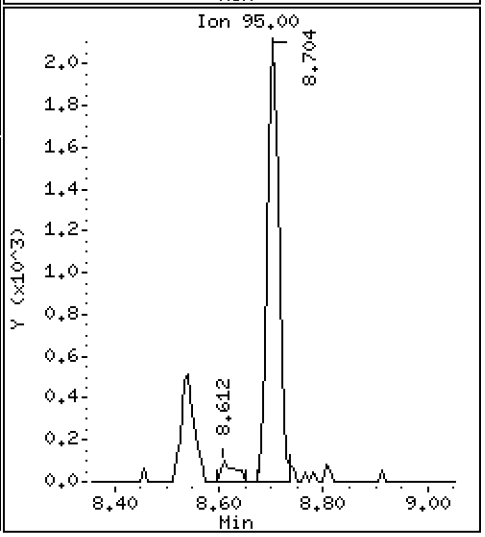


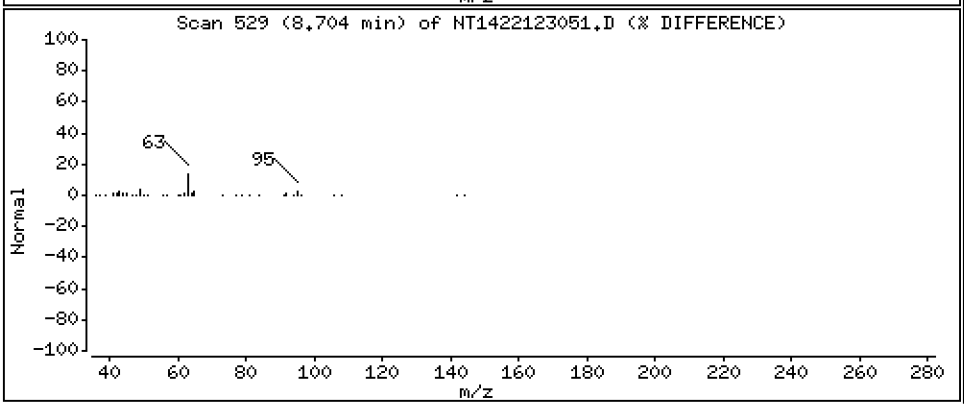












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

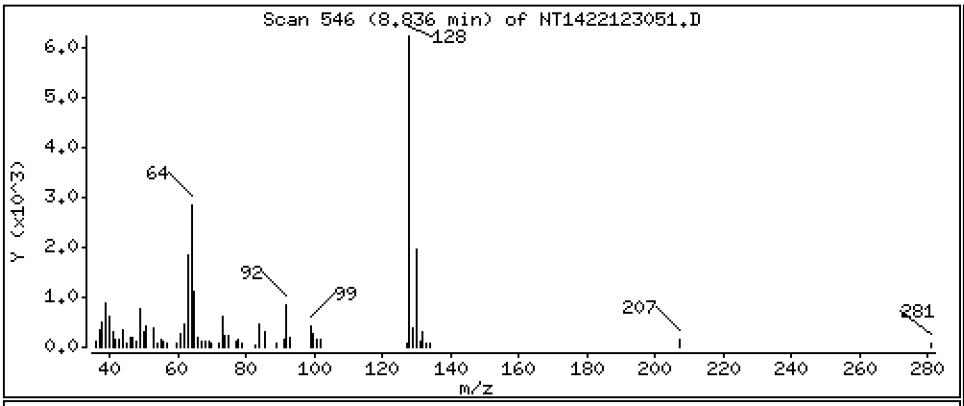
Operator: VTS

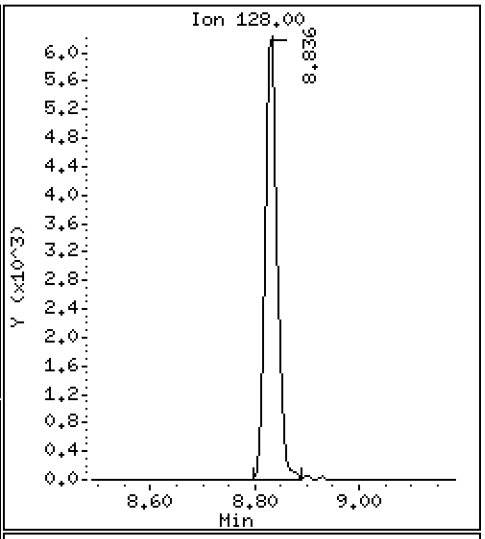
Column phase: ZB-5msi

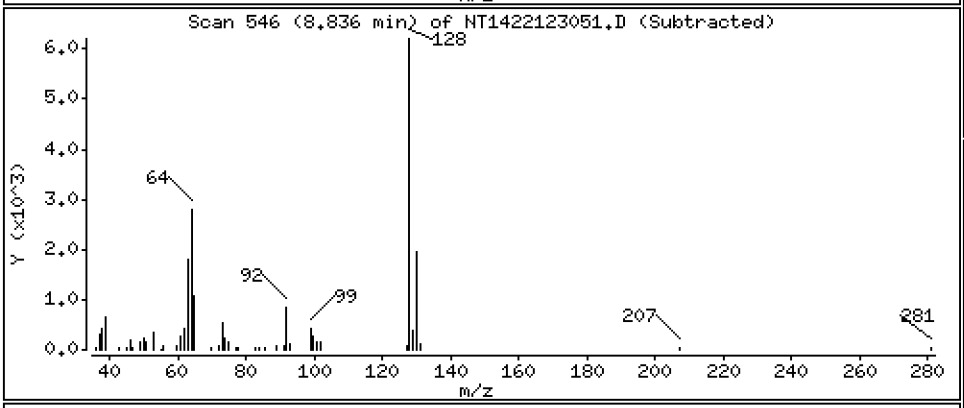
Column diameter: 0.25

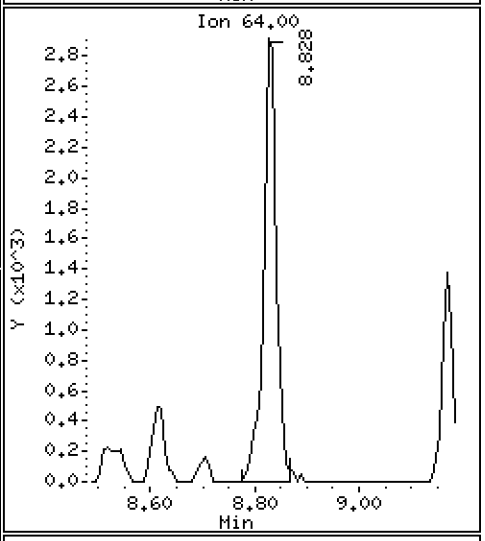
6 2-Chlorophenol

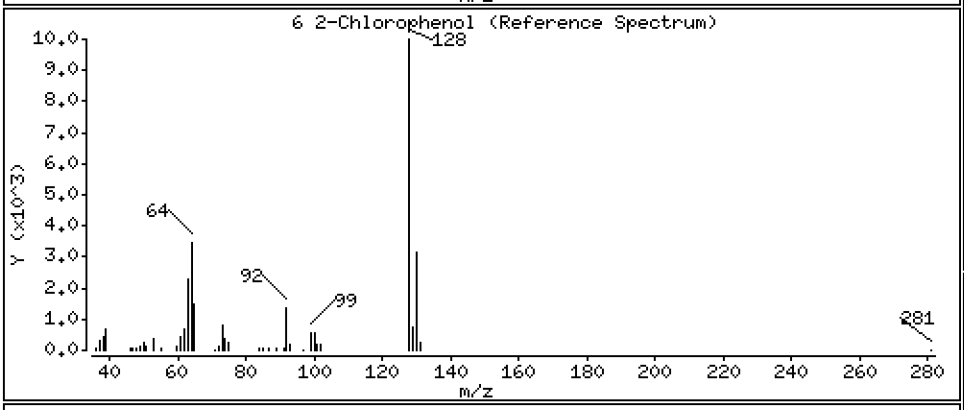
Concentration: 0.2355 ug/mL

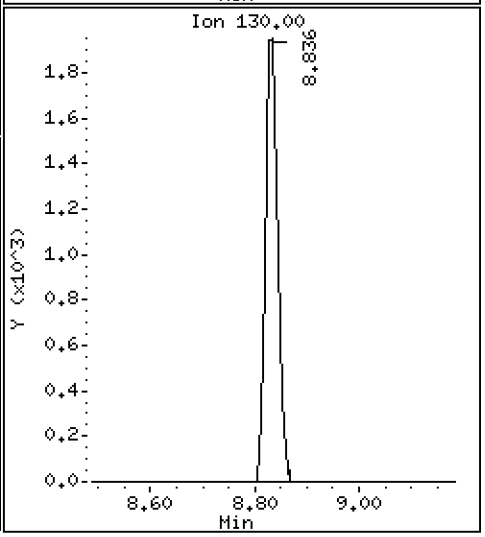


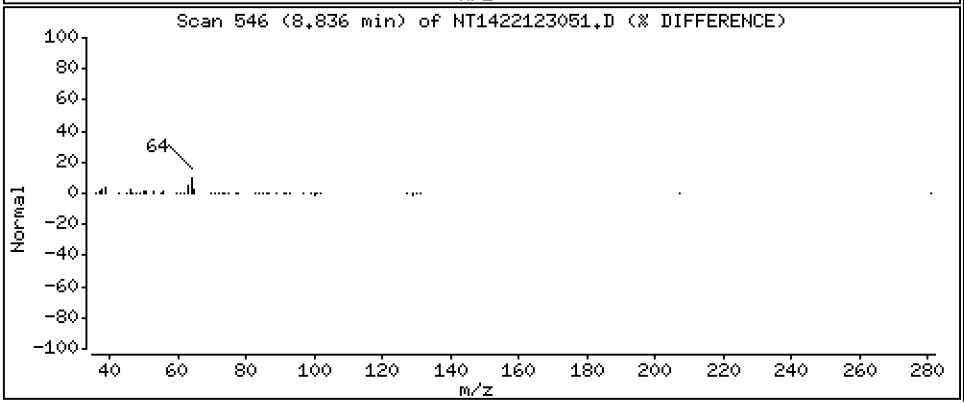












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

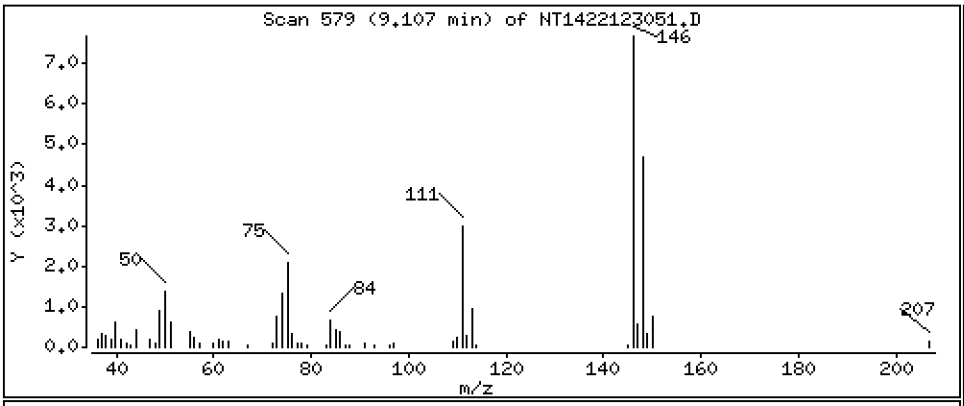
Operator: VTS

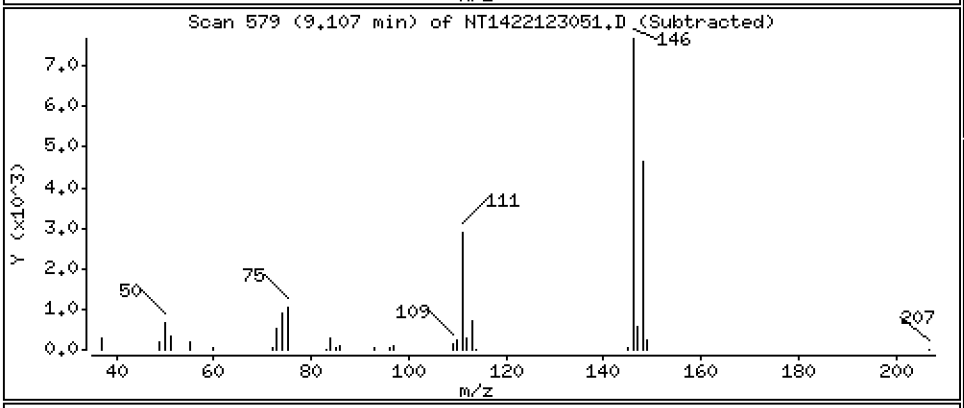
Column phase: ZB-5msi

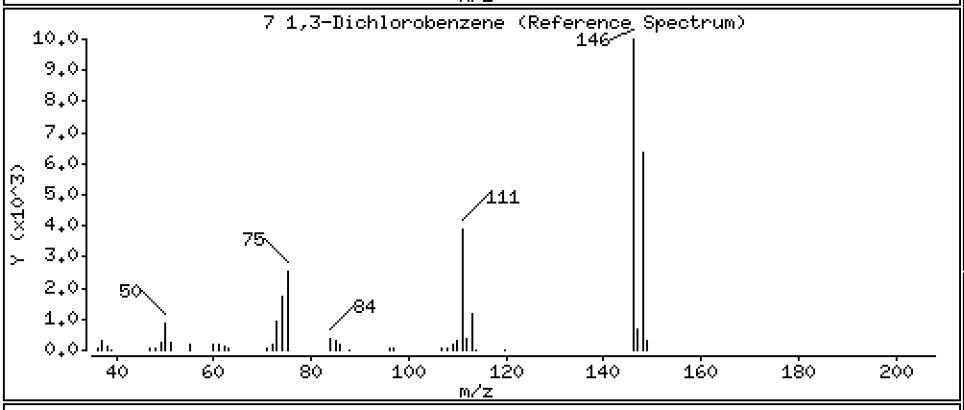
Column diameter: 0.25

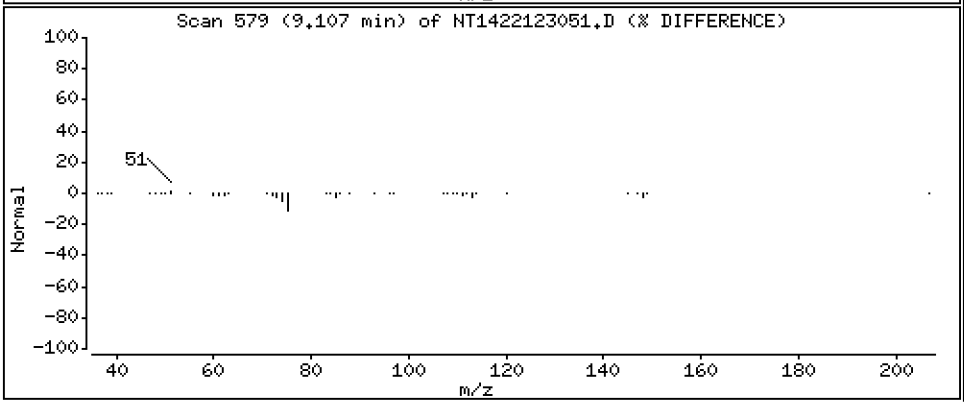
7 1,3-Dichlorobenzene

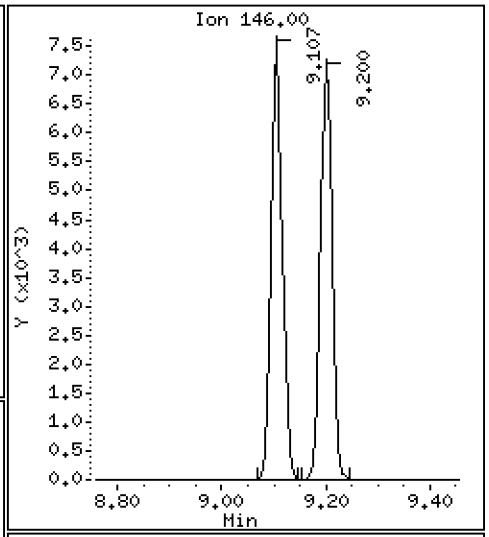
Concentration: 0.2457 ug/mL

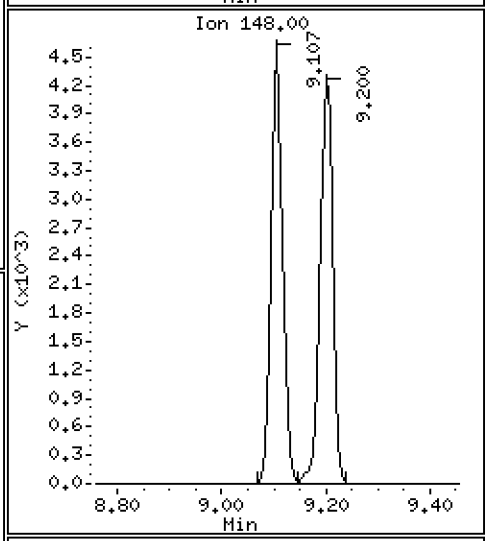


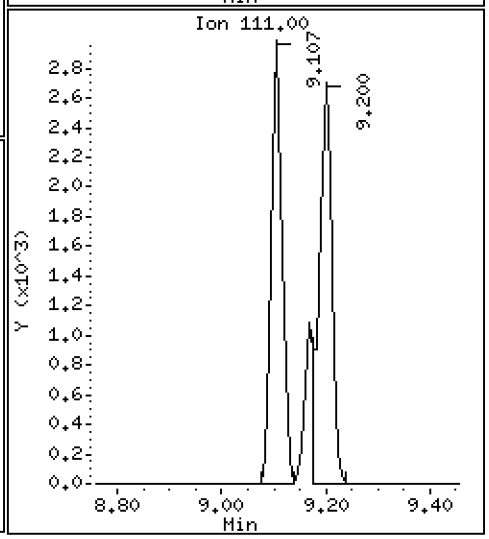












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

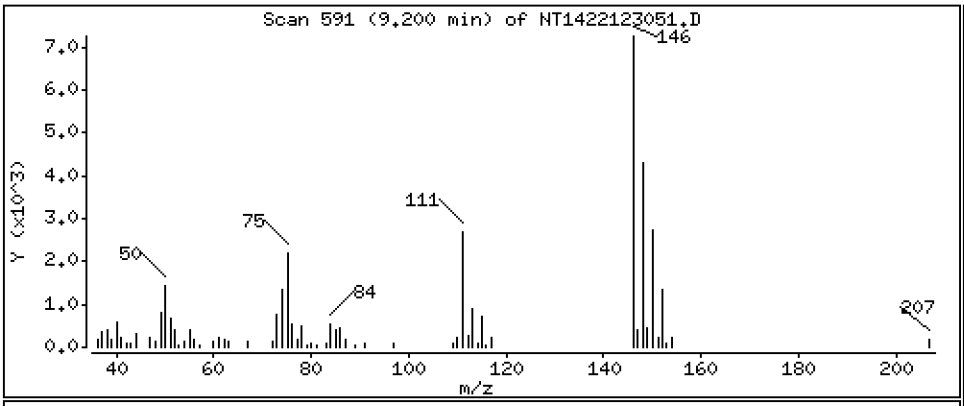
Operator: VTS

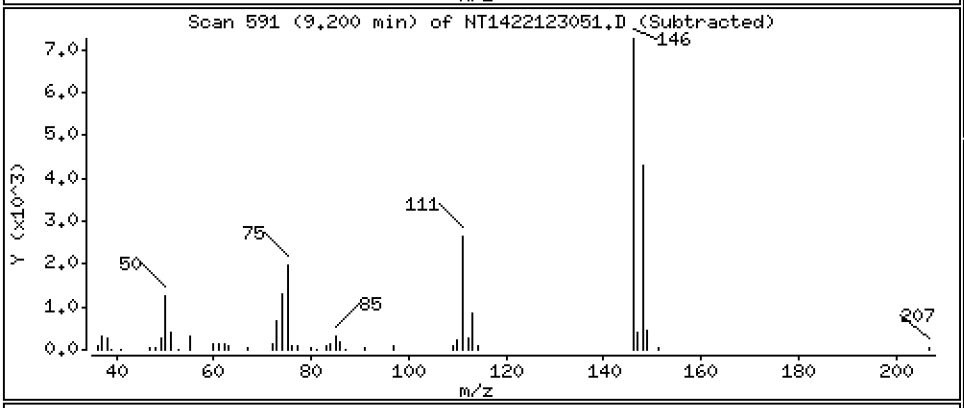
Column phase: ZB-5msi

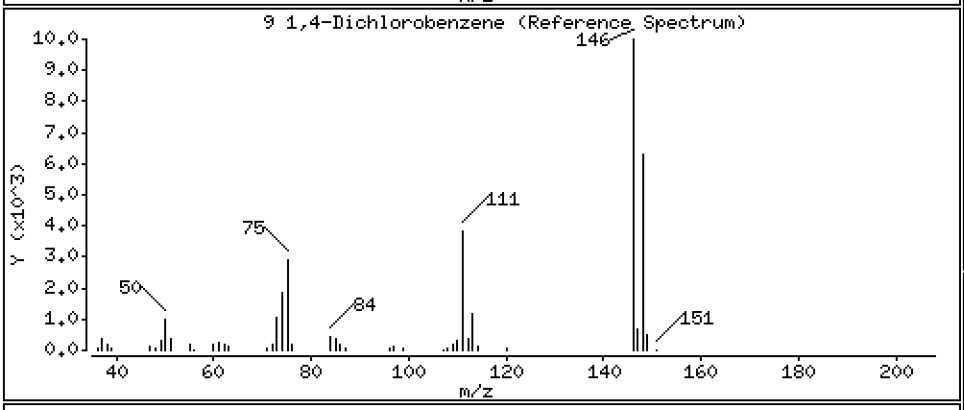
Column diameter: 0.25

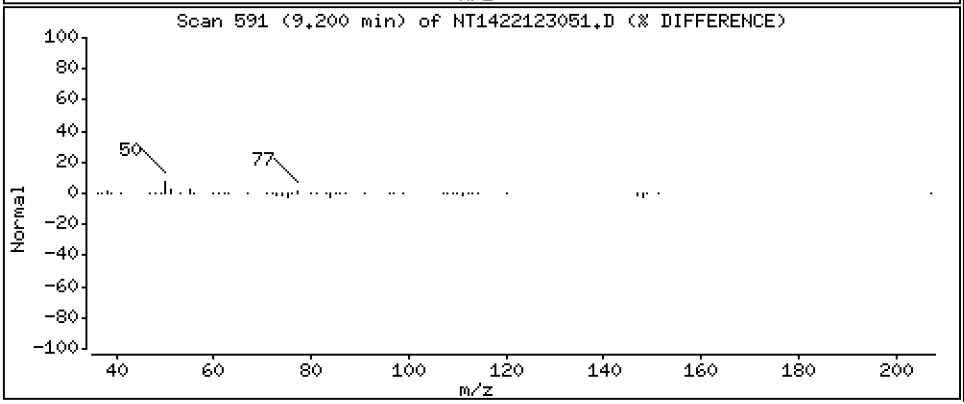
9 1,4-Dichlorobenzene

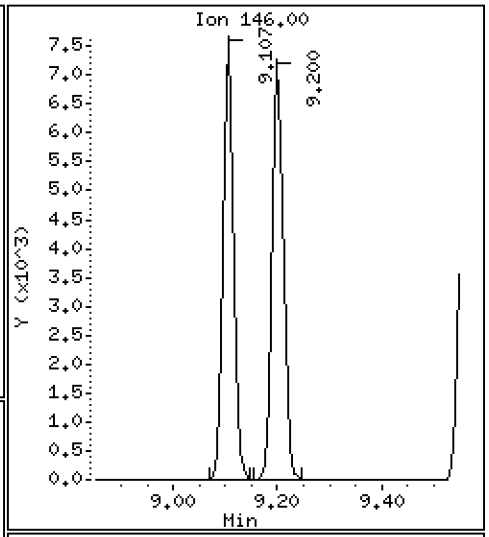
Concentration: 0.2487 ug/mL

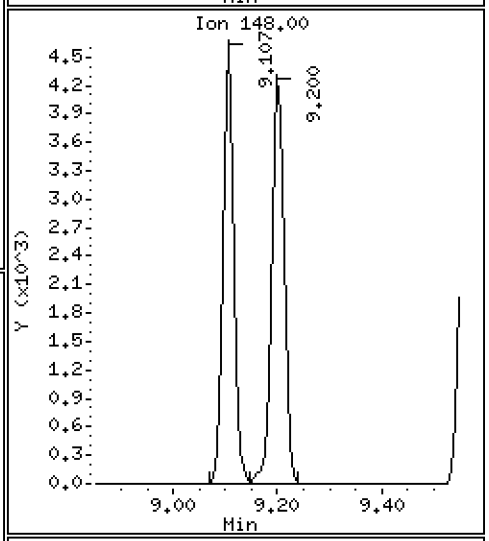


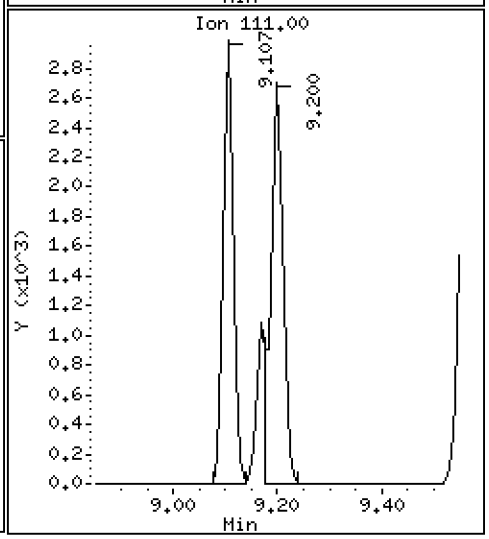












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

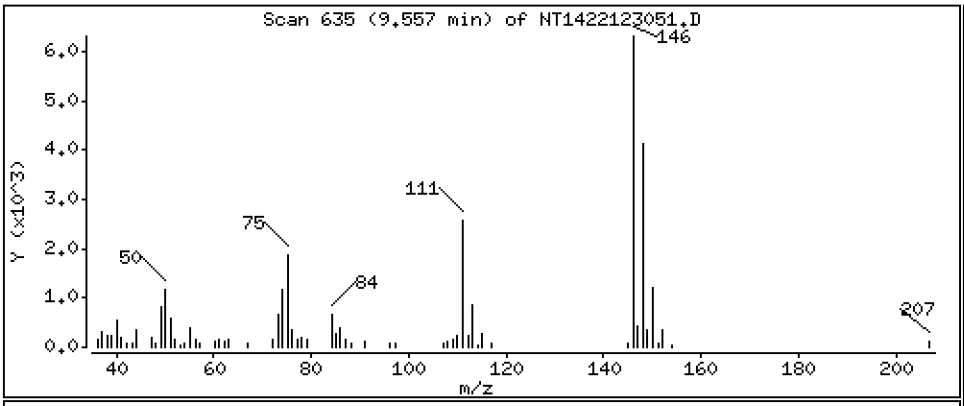
Operator: VTS

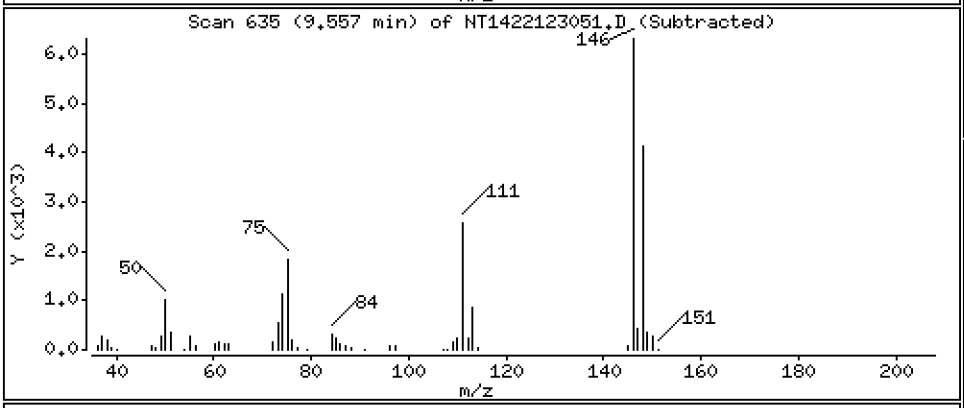
Column phase: ZB-5msi

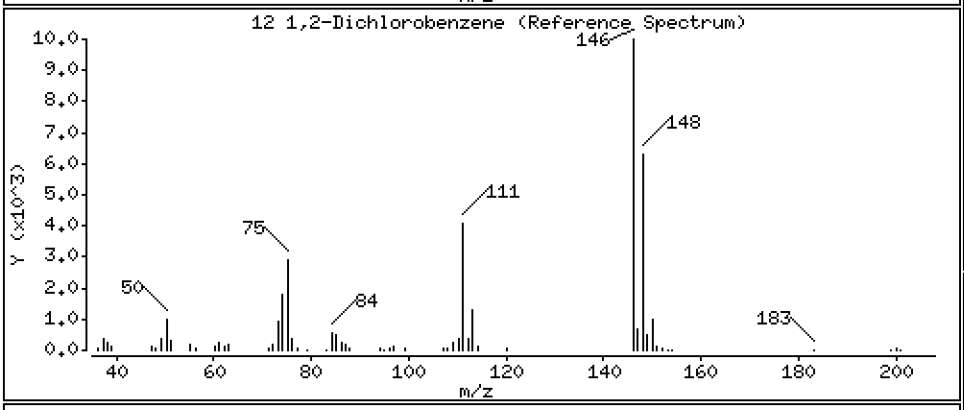
Column diameter: 0.25

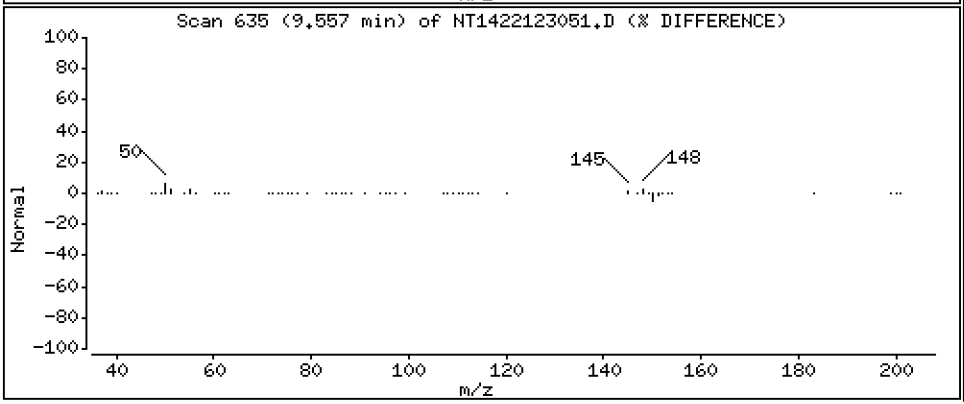
12 1,2-Dichlorobenzene

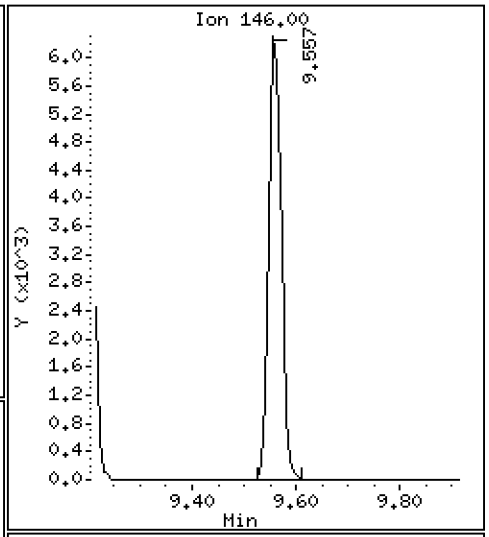
Concentration: 0.2432 ug/mL

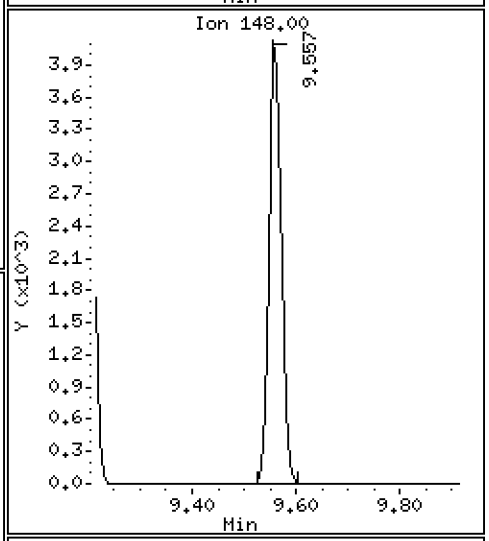


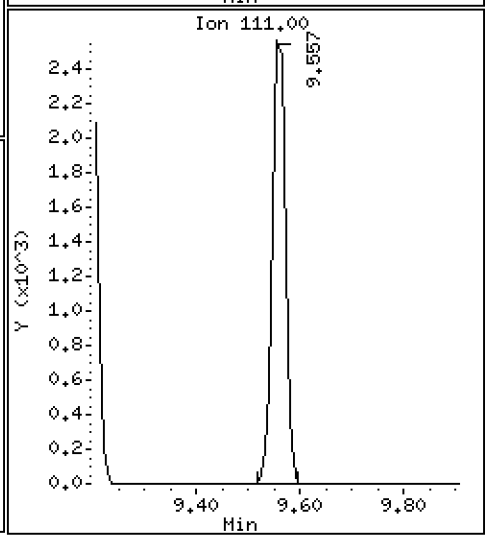












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

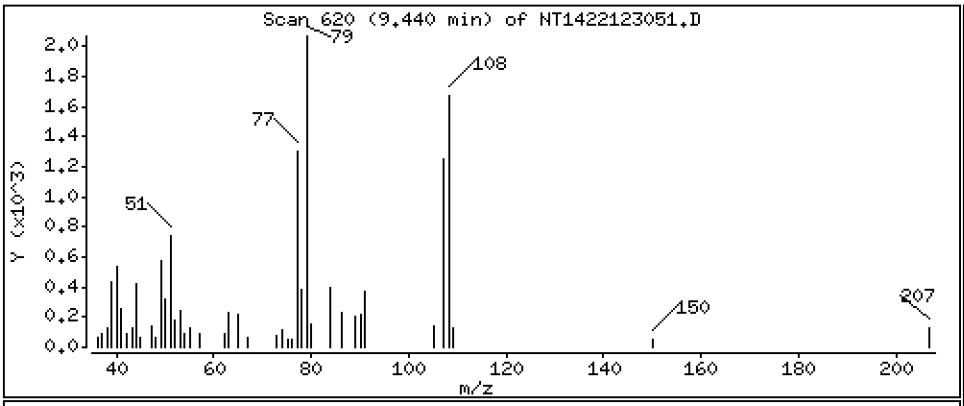
Operator: VTS

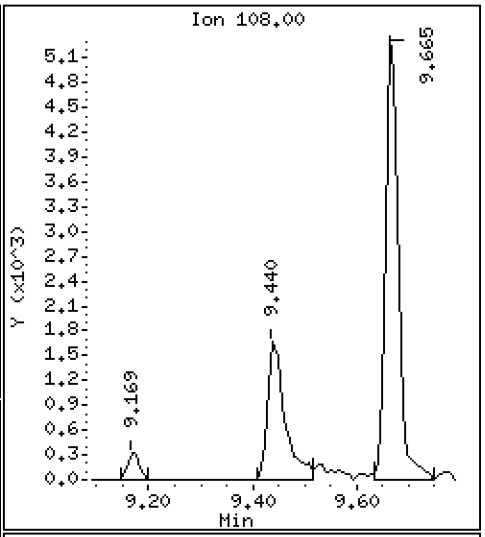
Column phase: ZB-5msi

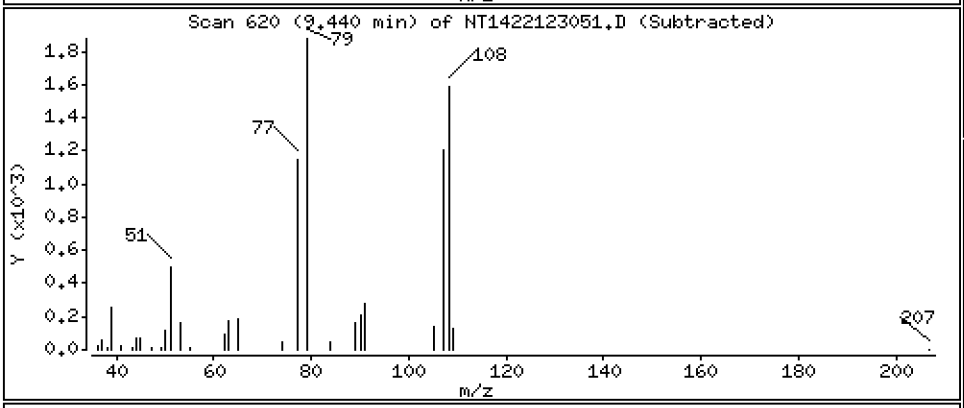
Column diameter: 0.25

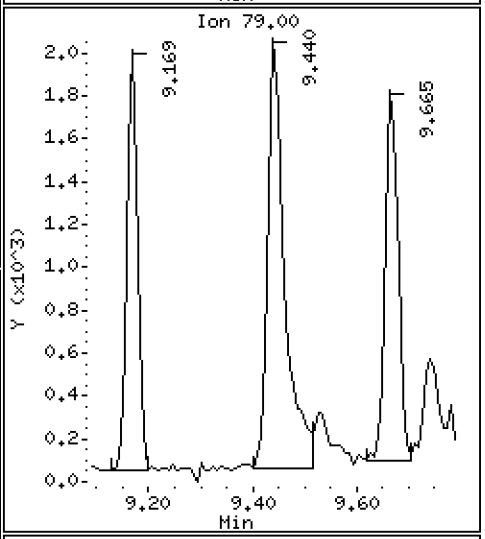
11 Benzyl alcohol

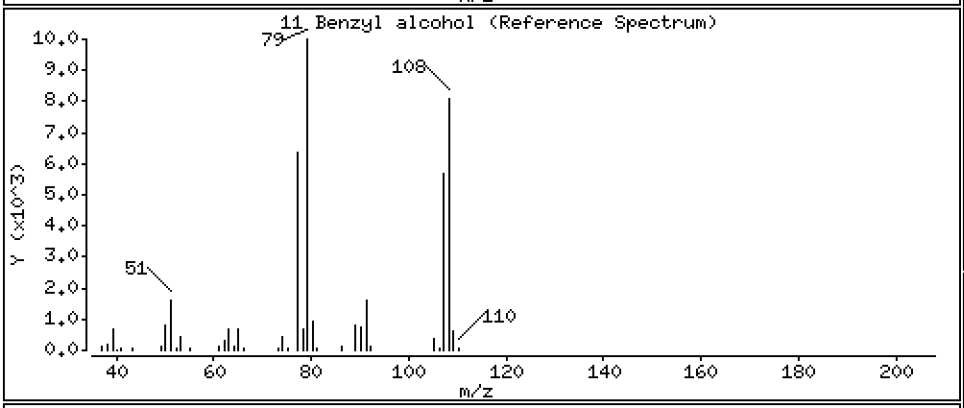
Concentration: 0.1623 ug/mL

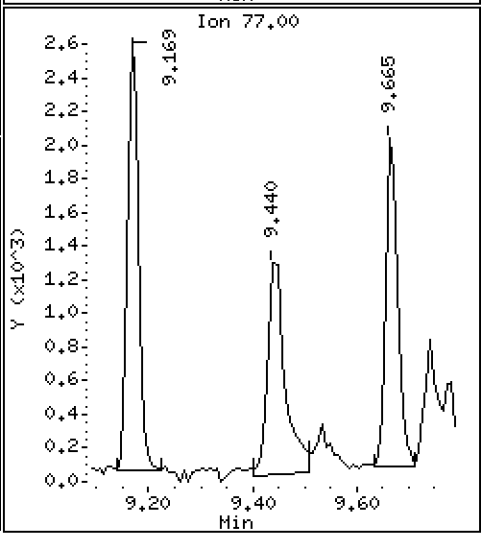


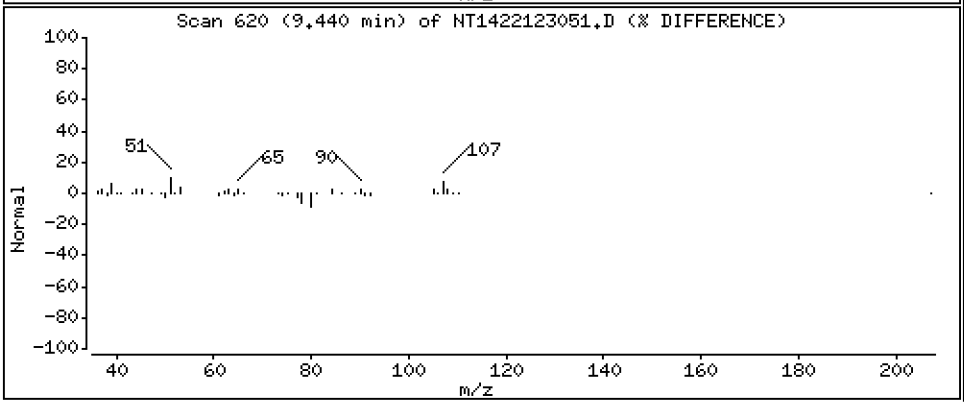












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

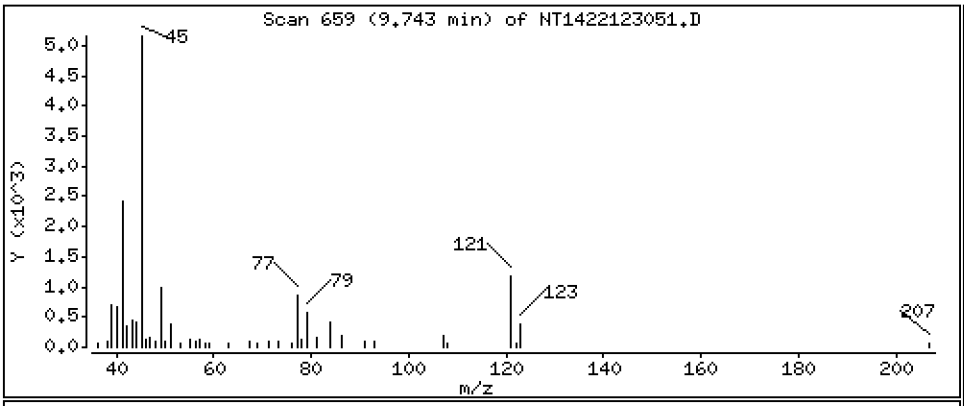
Operator: VTS

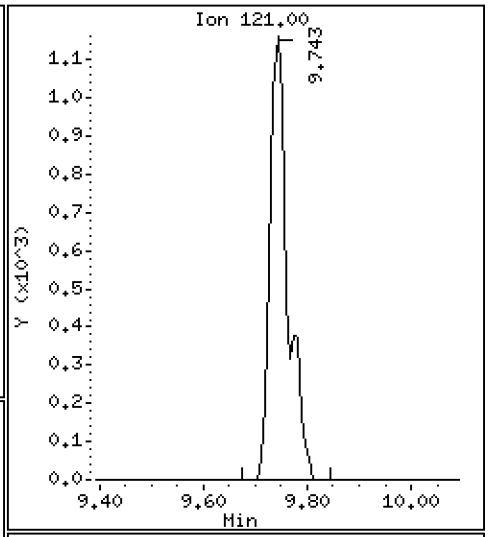
Column phase: ZB-5msi

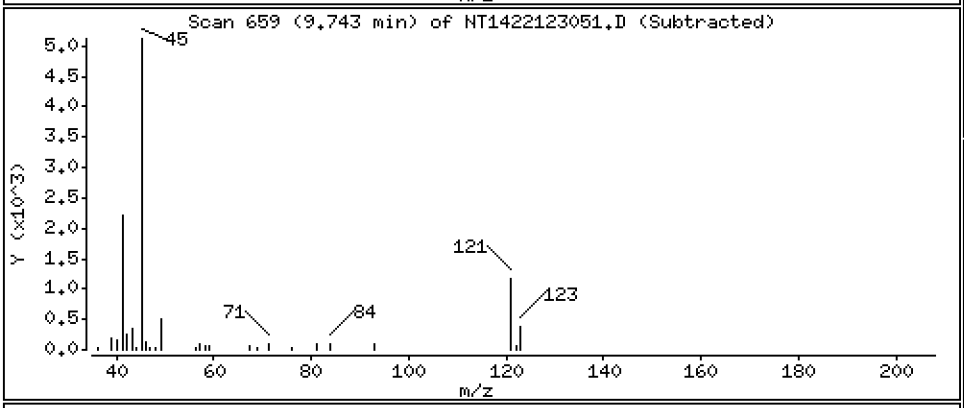
Column diameter: 0.25

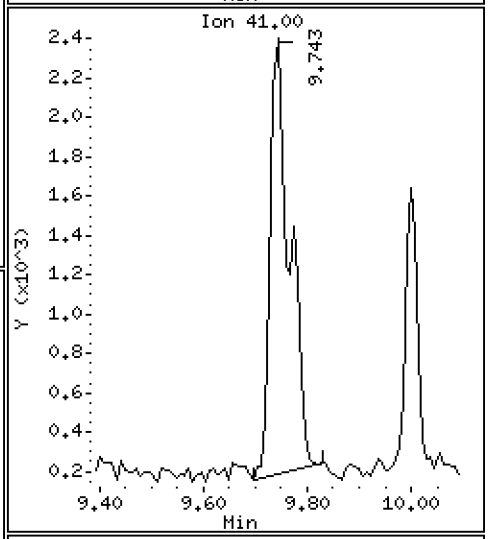
14 2,2'-oxybis(1-Chloropropane)

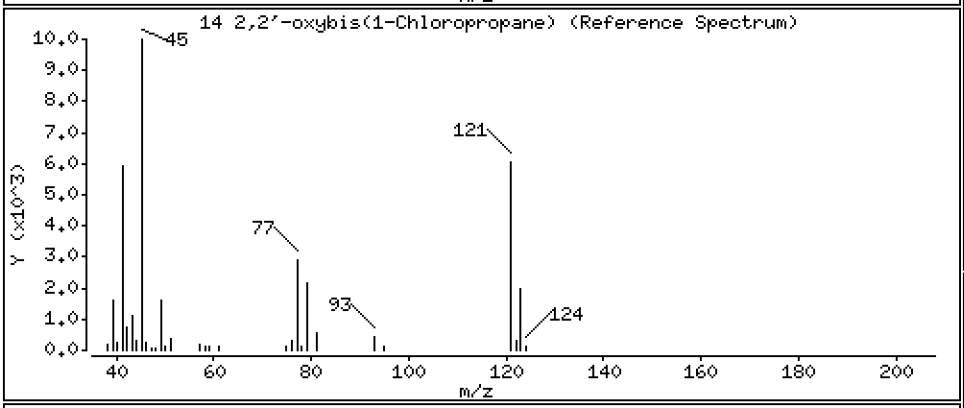
Concentration: 0.2236 ug/mL

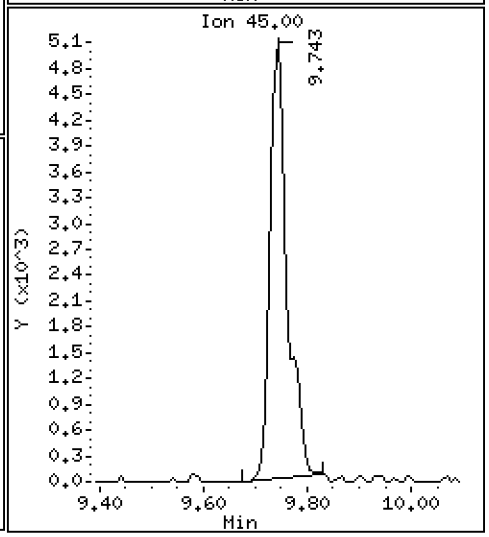


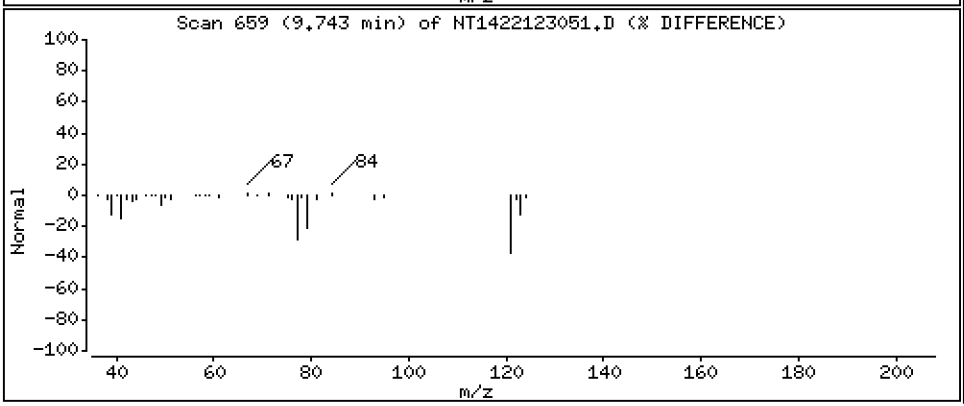












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

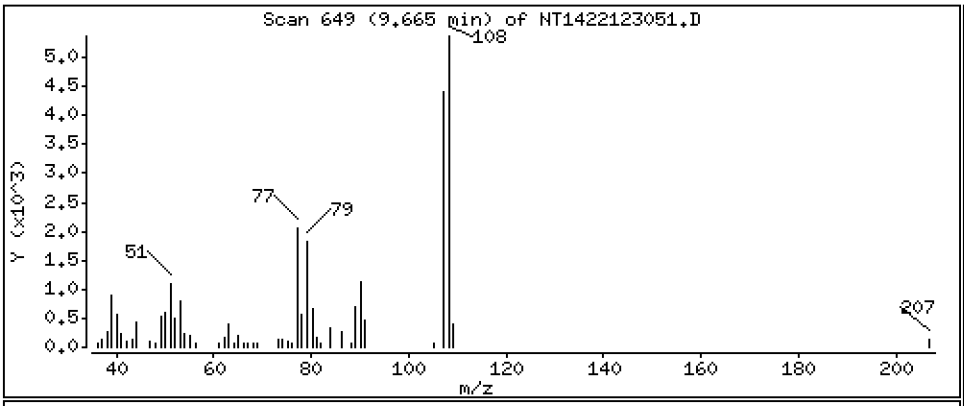
Operator: VTS

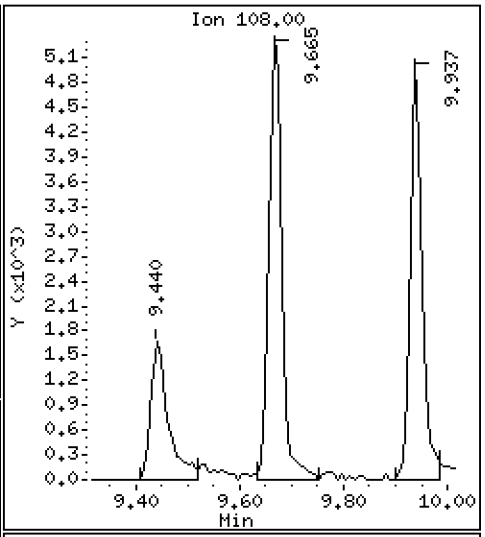
Column phase: ZB-5msi

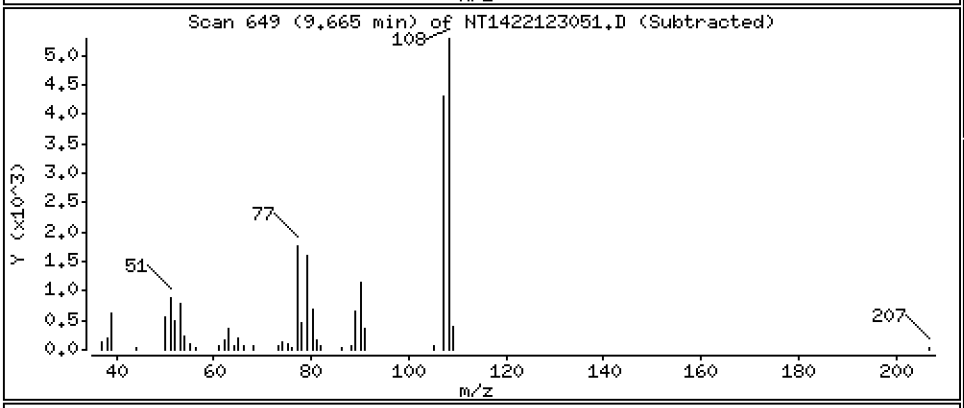
Column diameter: 0.25

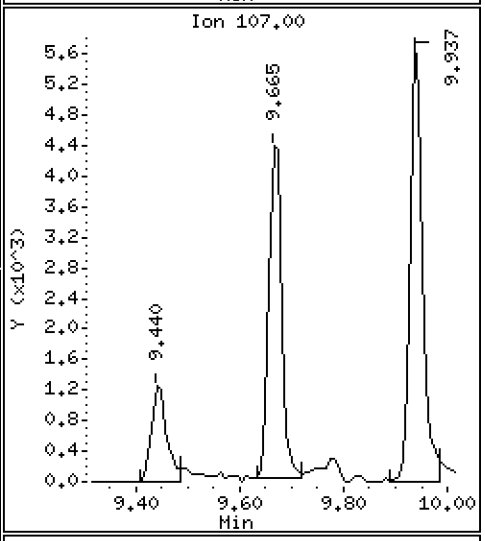
13 2-Methylphenol

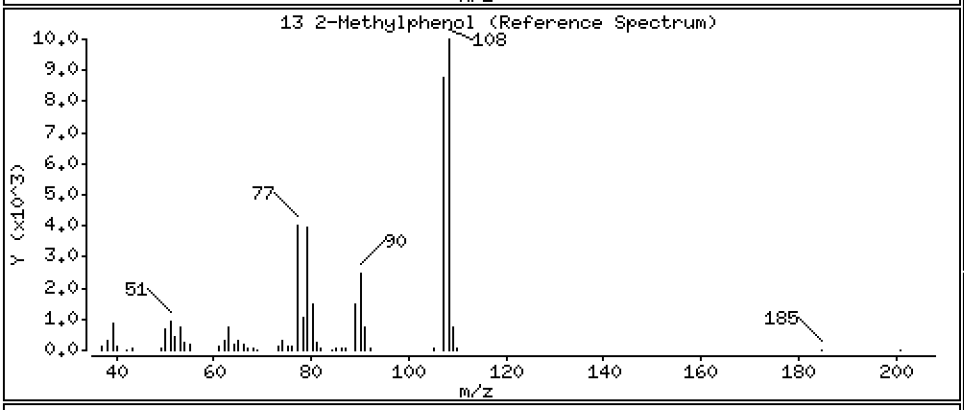
Concentration: 0.2341 ug/mL

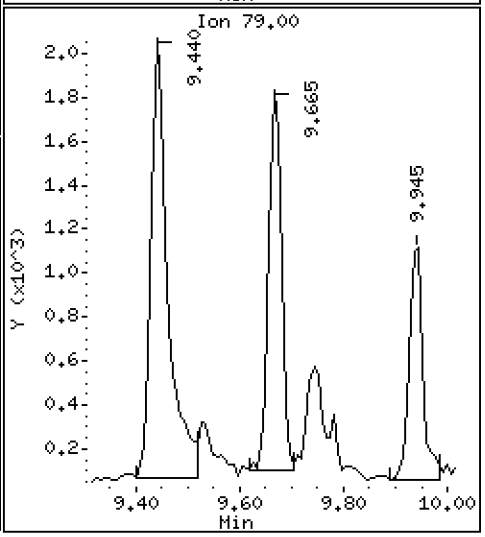


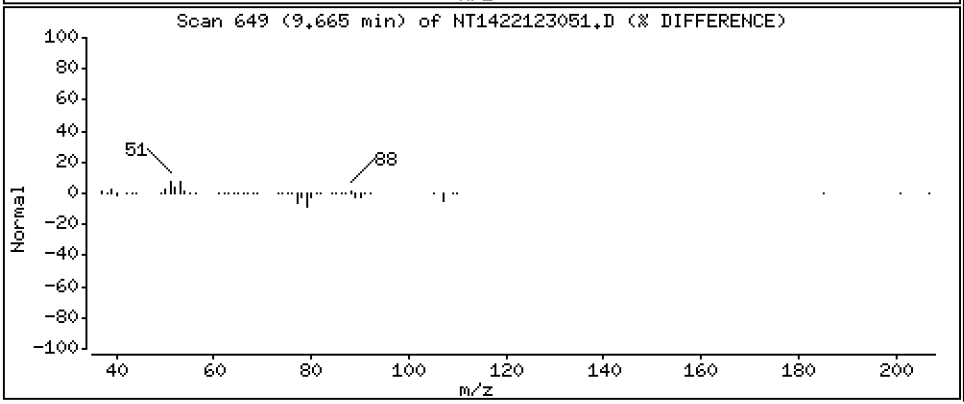












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

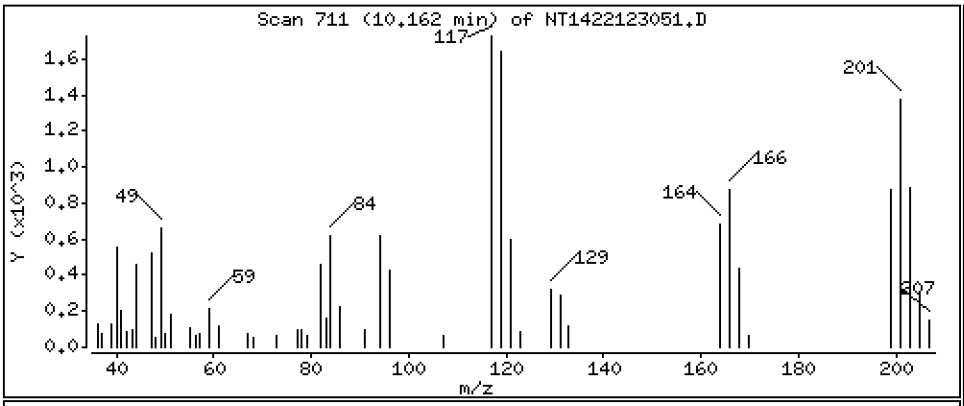
Operator: VTS

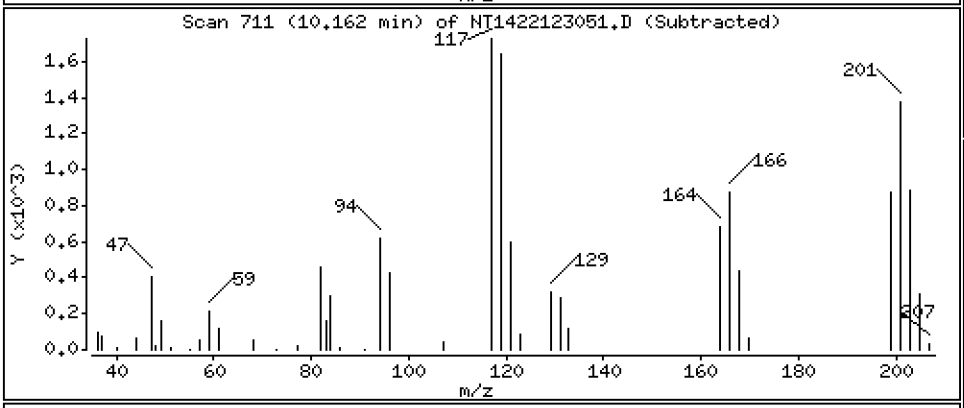
Column phase: ZB-5msi

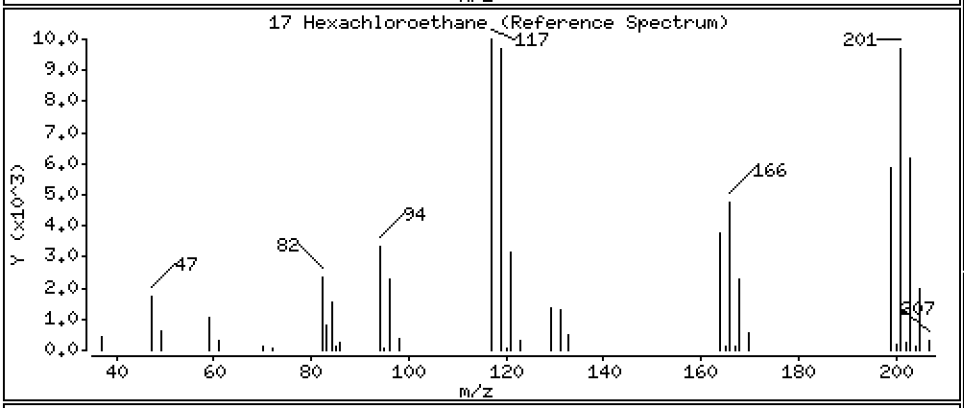
Column diameter: 0.25

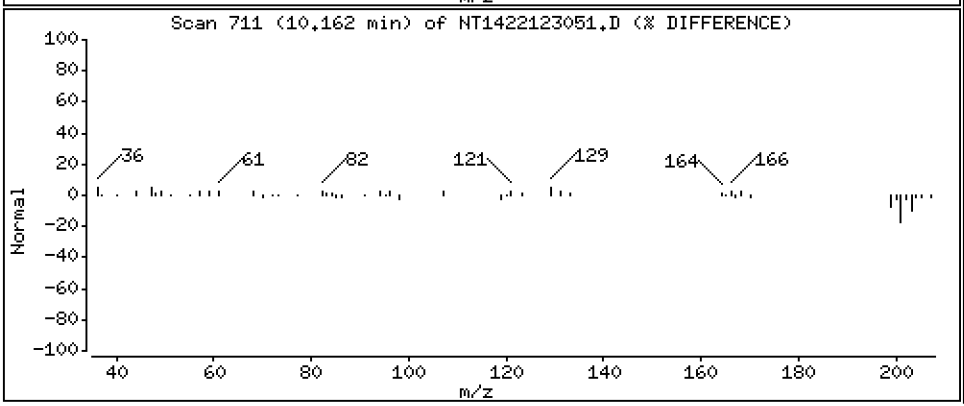
17 Hexachloroethane

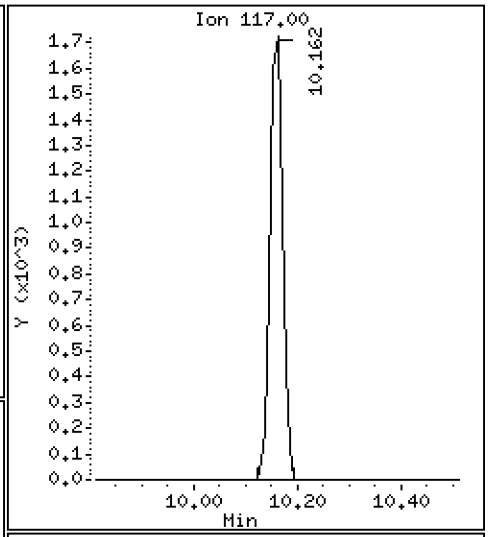
Concentration: 0.1755 ug/mL

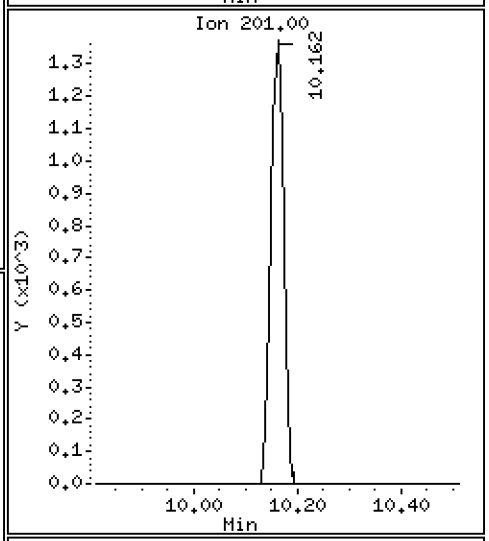


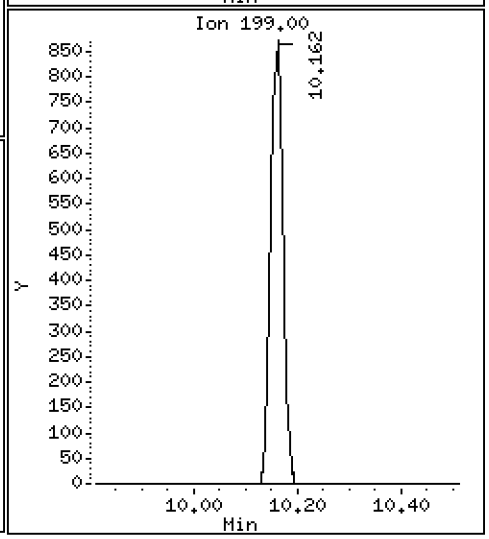












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

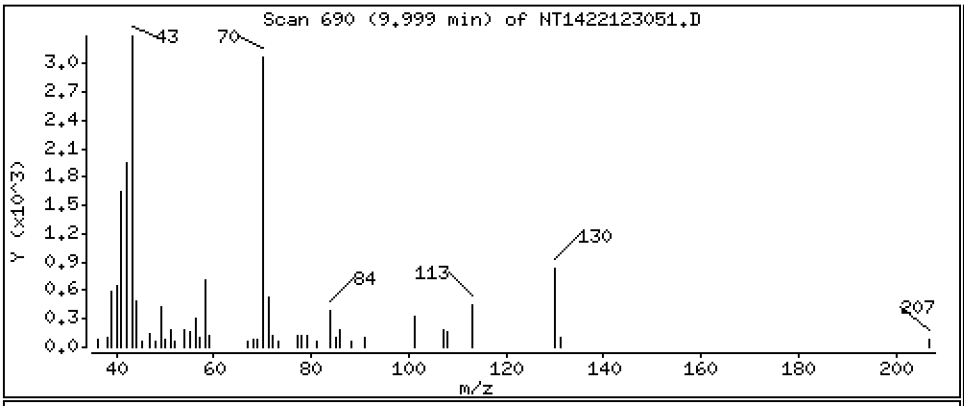
Operator: VTS

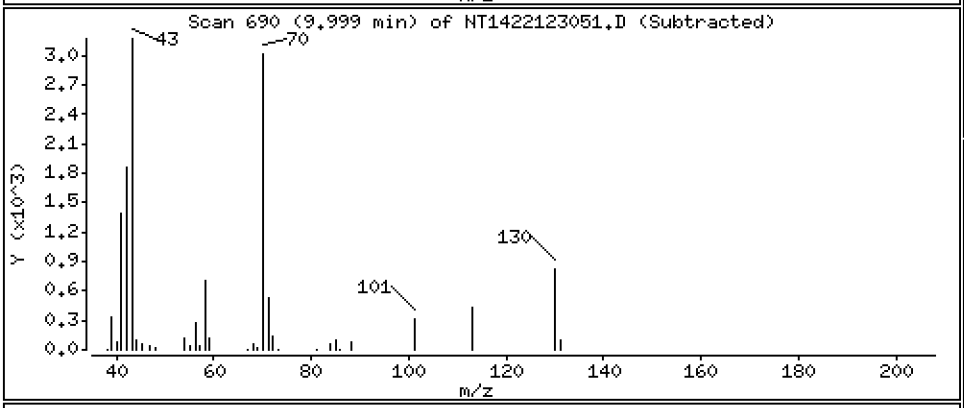
Column phase: ZB-5msi

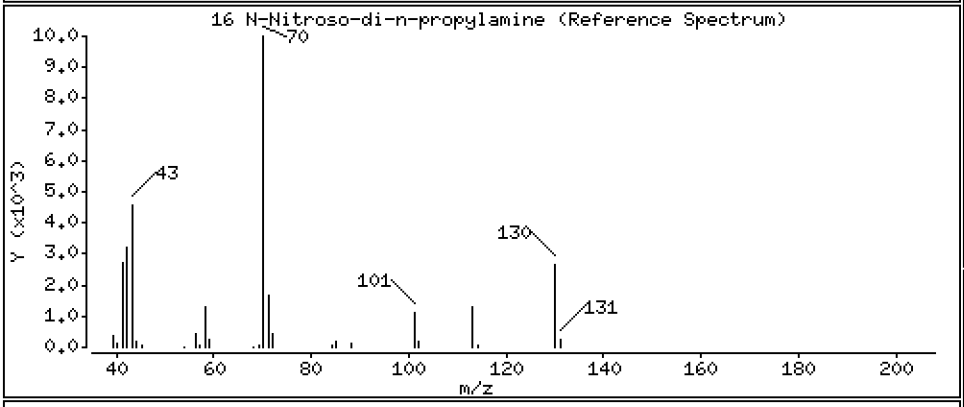
Column diameter: 0.25

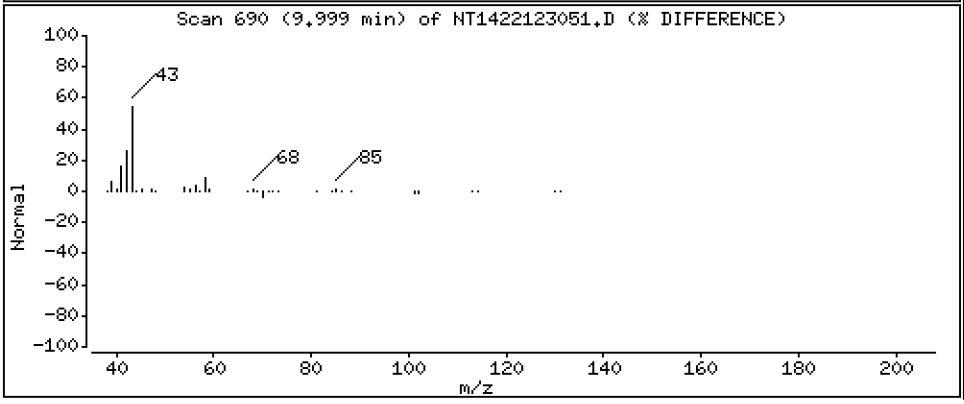
16 N-Nitroso-di-n-propylamine

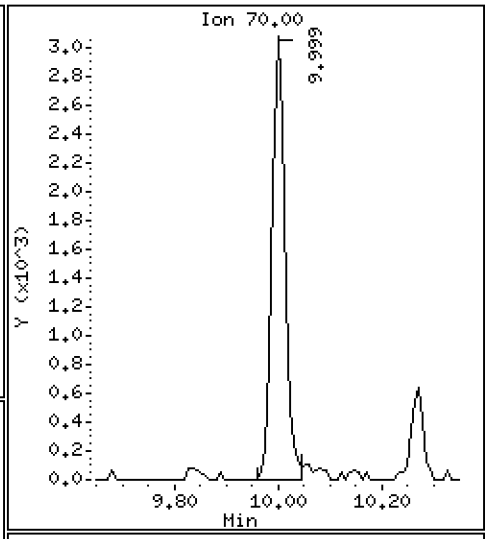
Concentration: 0.2208 ug/mL

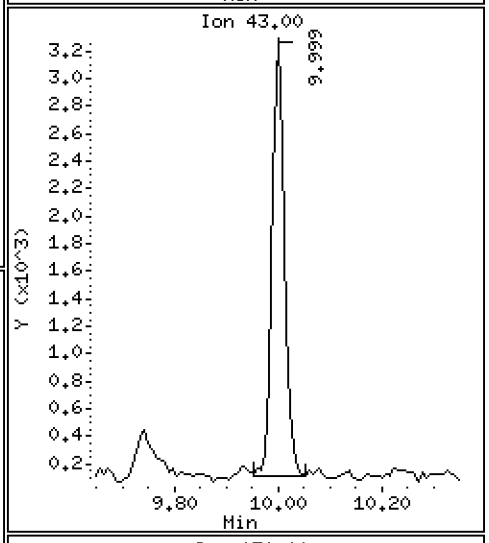


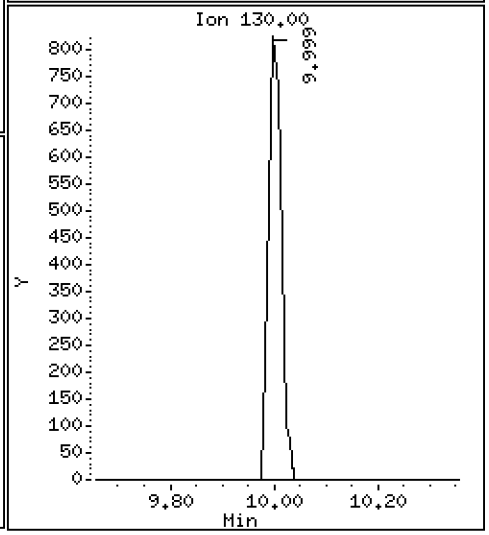












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

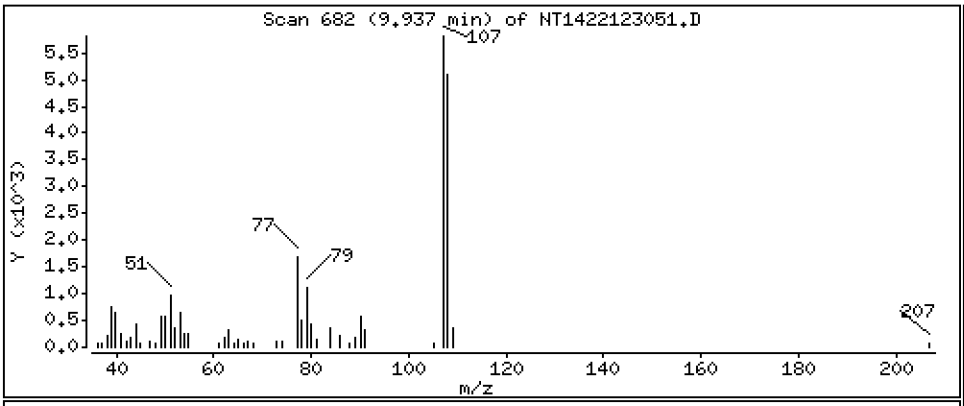
Operator: VTS

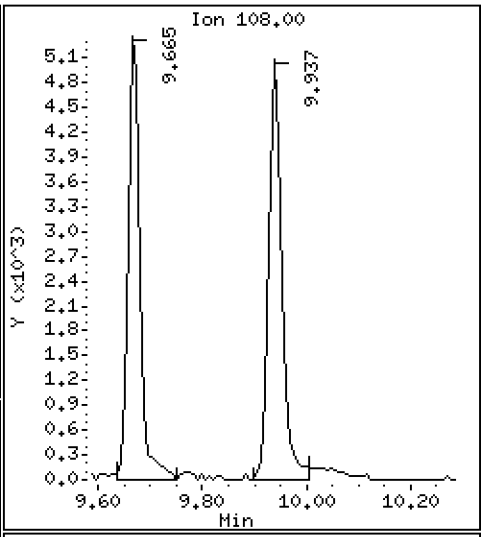
Column phase: ZB-5msi

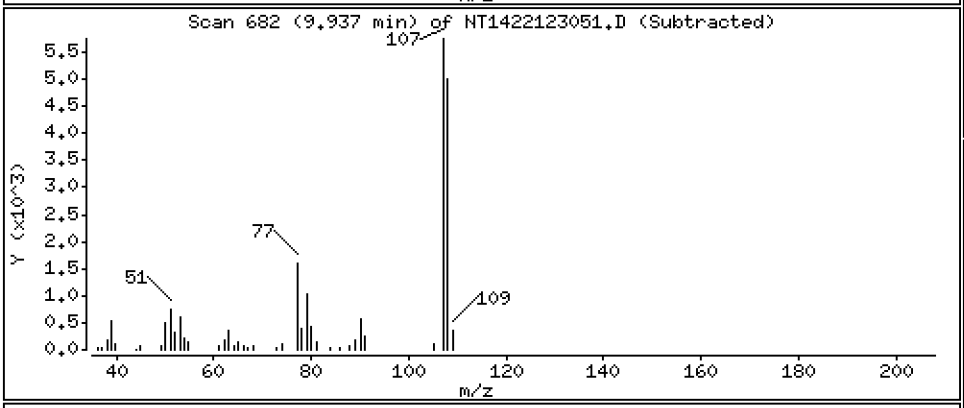
Column diameter: 0.25

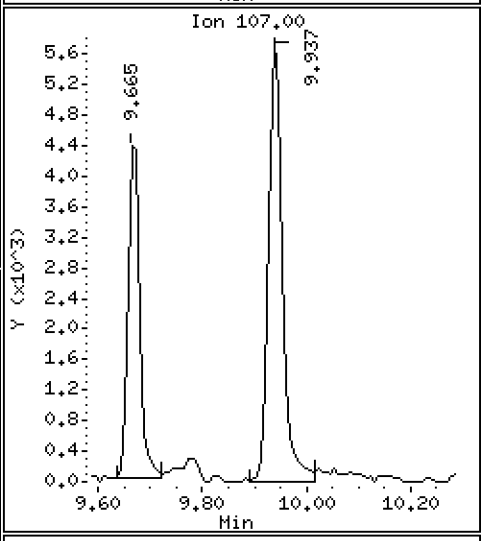
15 4-Methylphenol

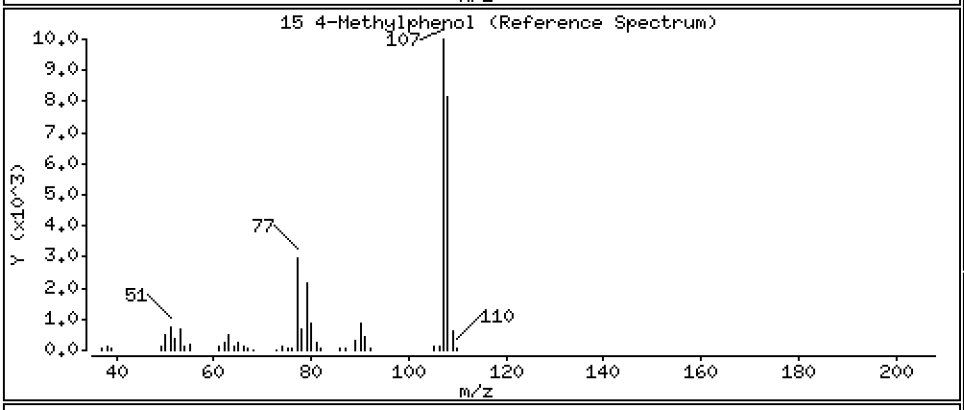
Concentration: 0.2121 ug/mL

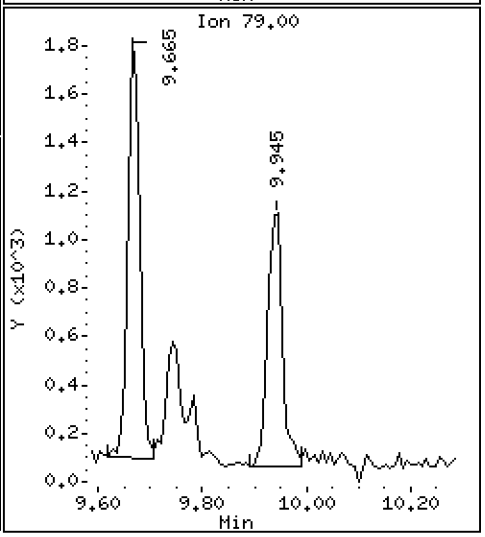


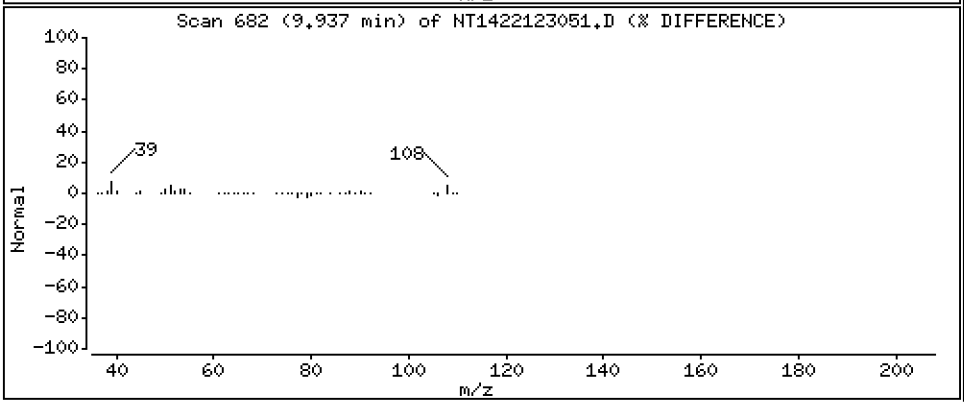












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

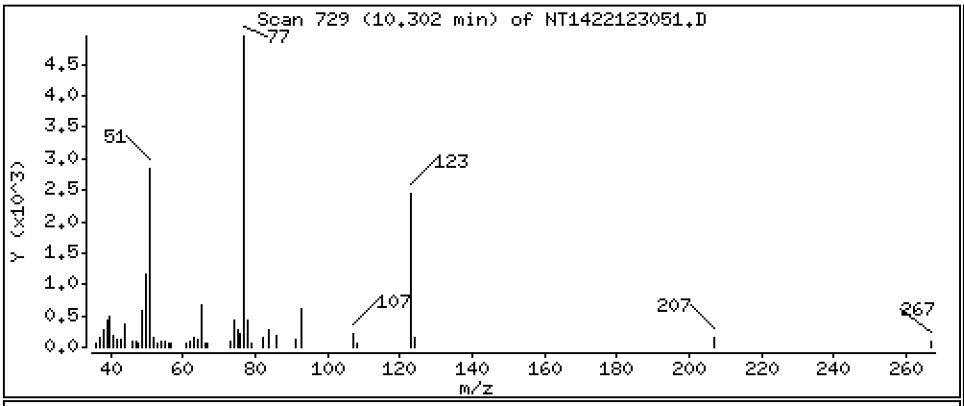
Operator: VTS

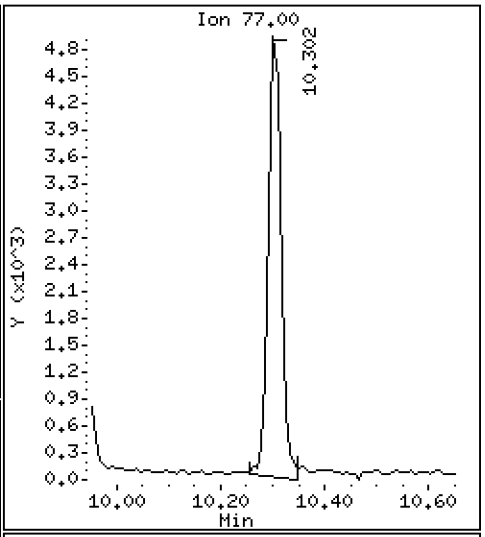
Column phase: ZB-5msi

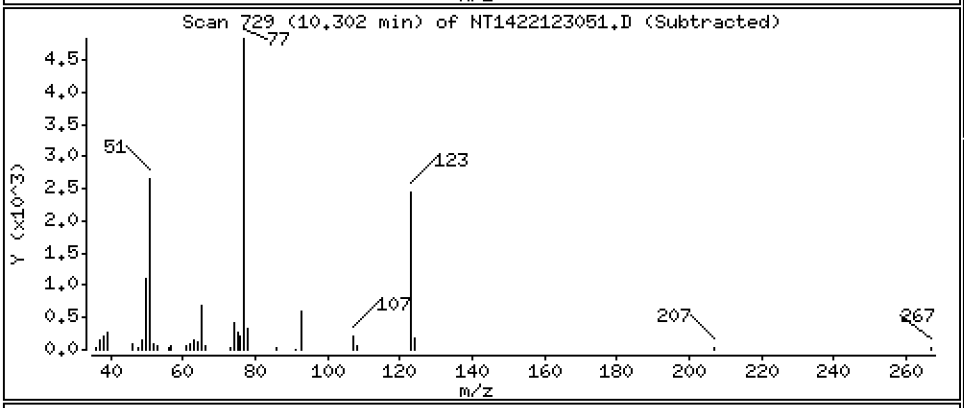
Column diameter: 0.25

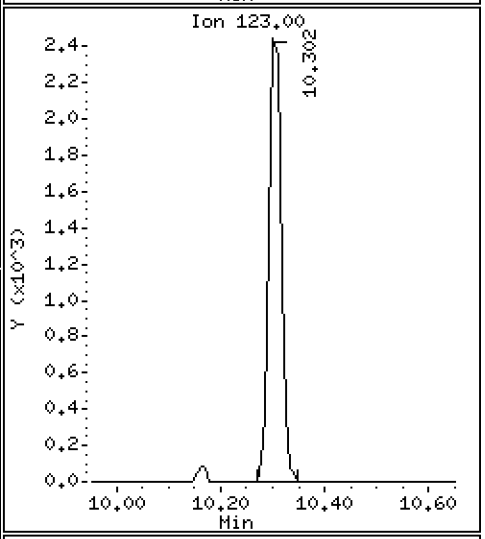
19 Nitrobenzene

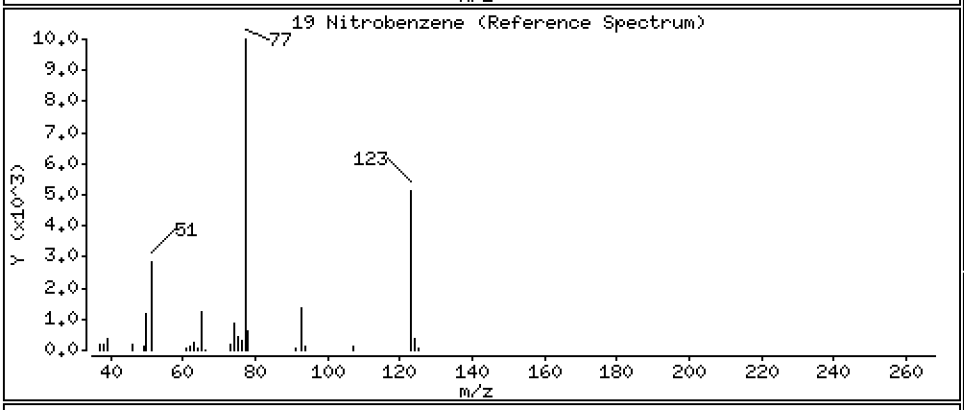
Concentration: 0.2254 ug/mL

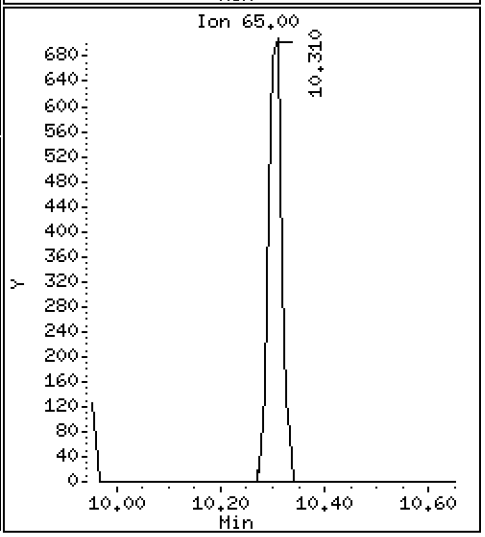


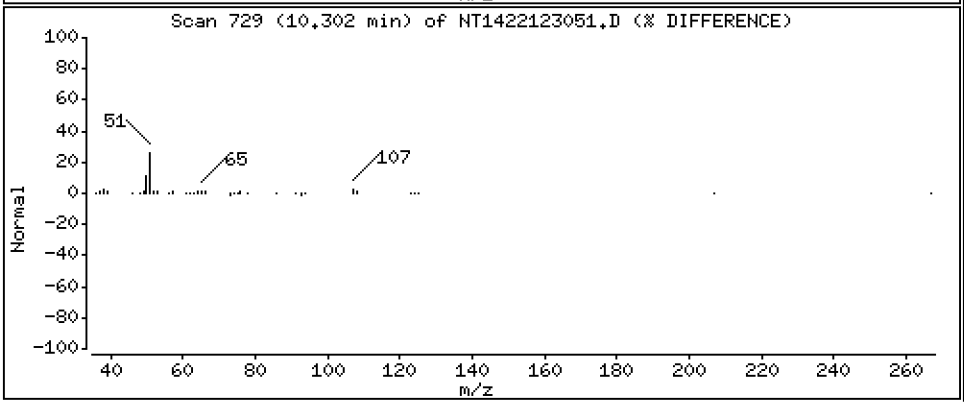












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

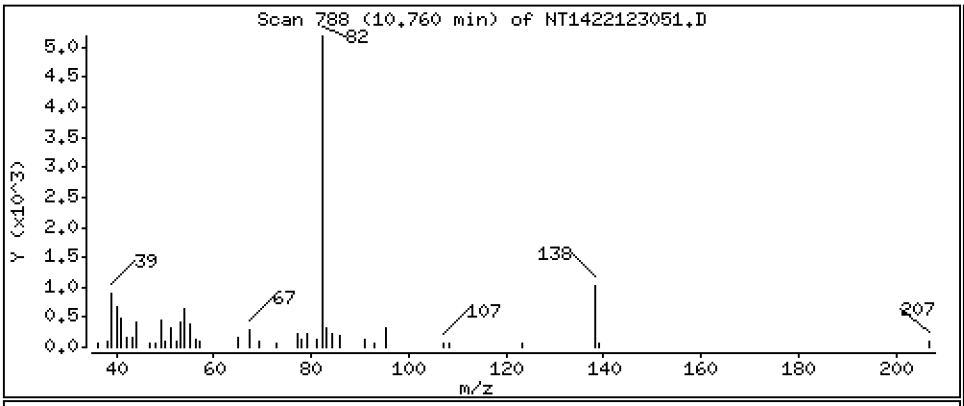
Operator: VTS

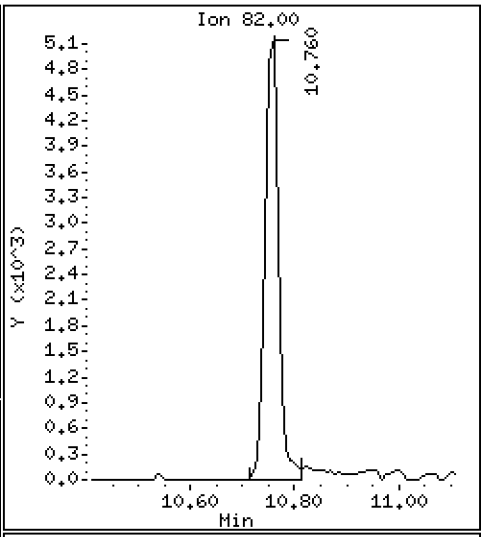
Column phase: ZB-5msi

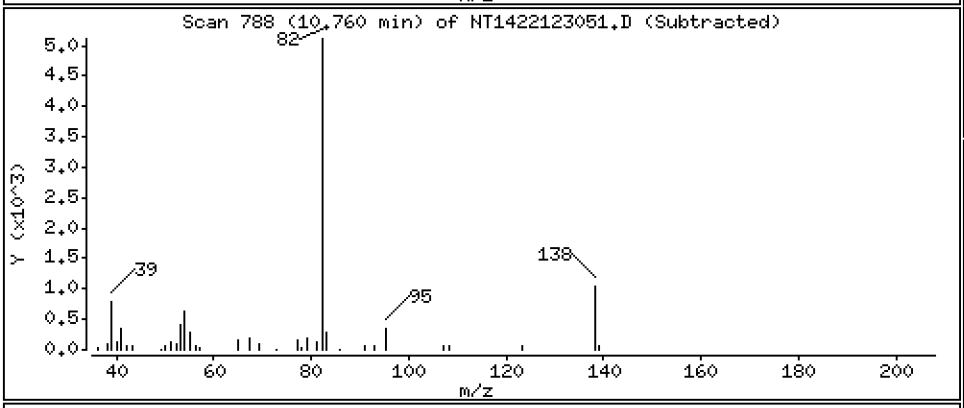
Column diameter: 0.25

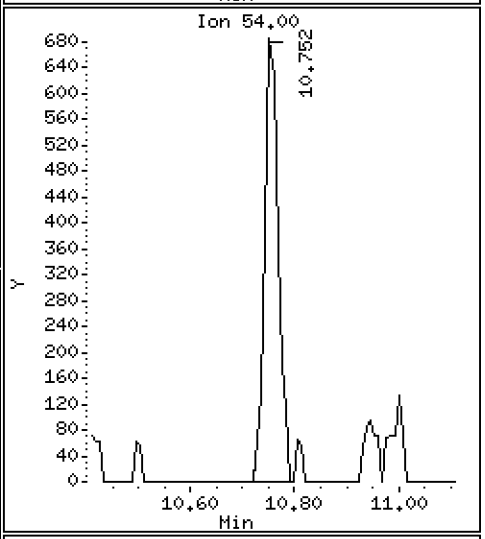
20 Isophorone

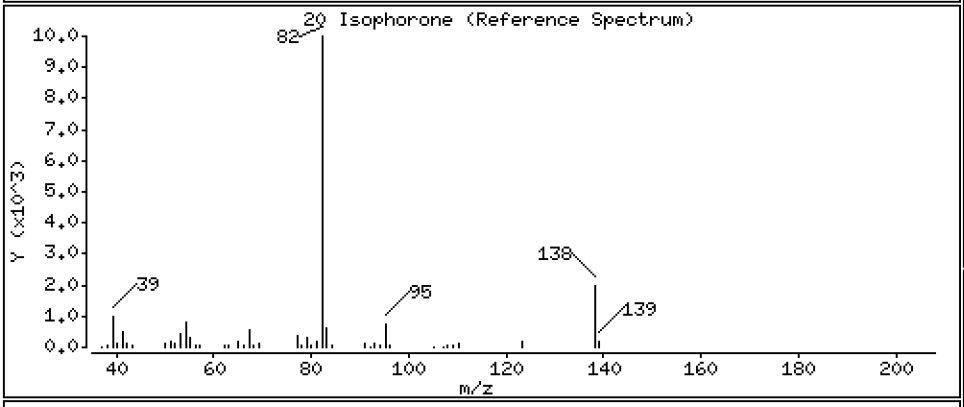
Concentration: 0.1965 ug/mL

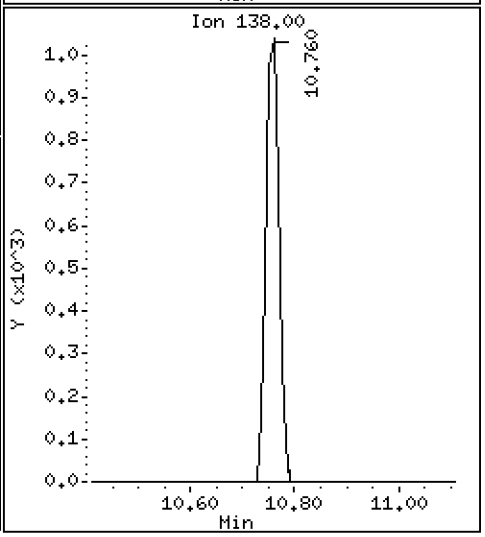


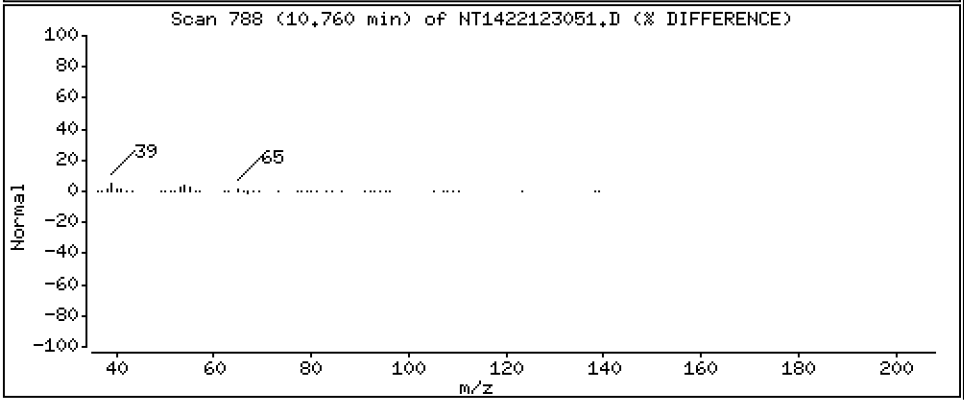












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

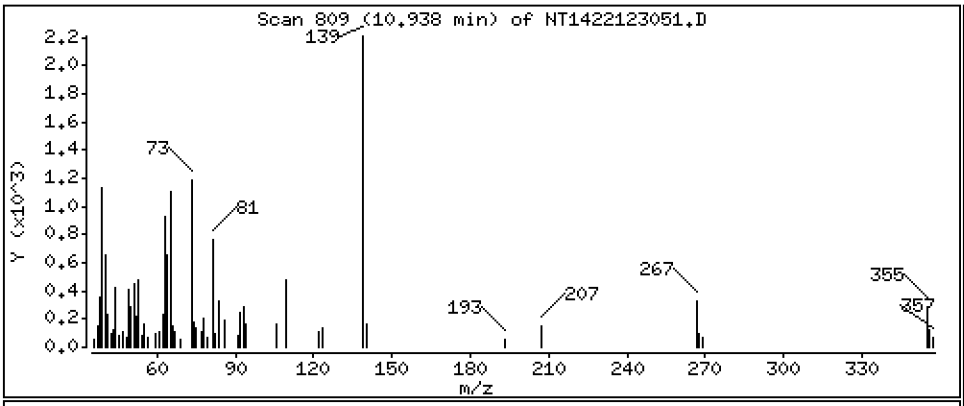
Operator: VTS

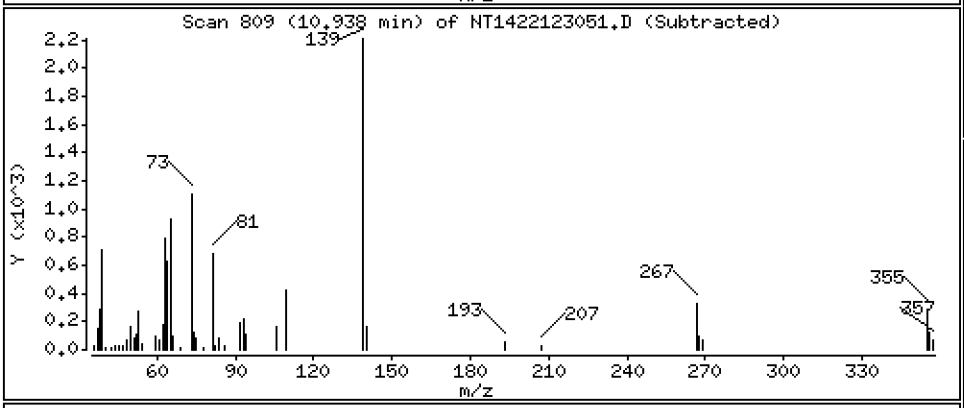
Column phase: ZB-5msi

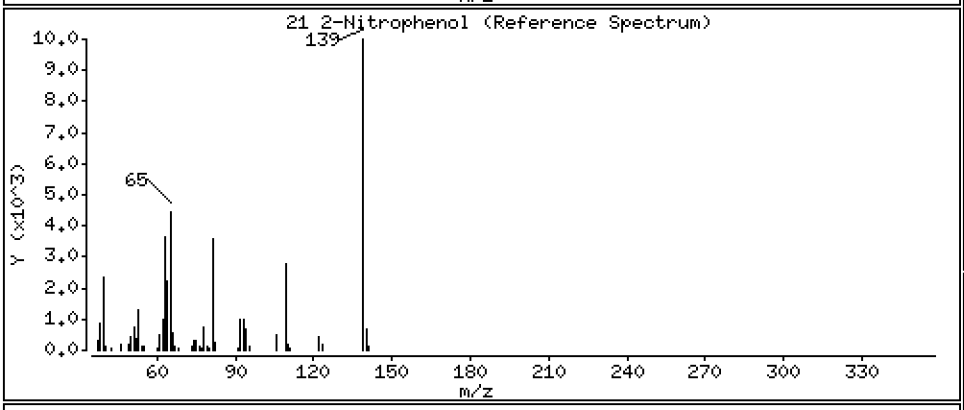
Column diameter: 0.25

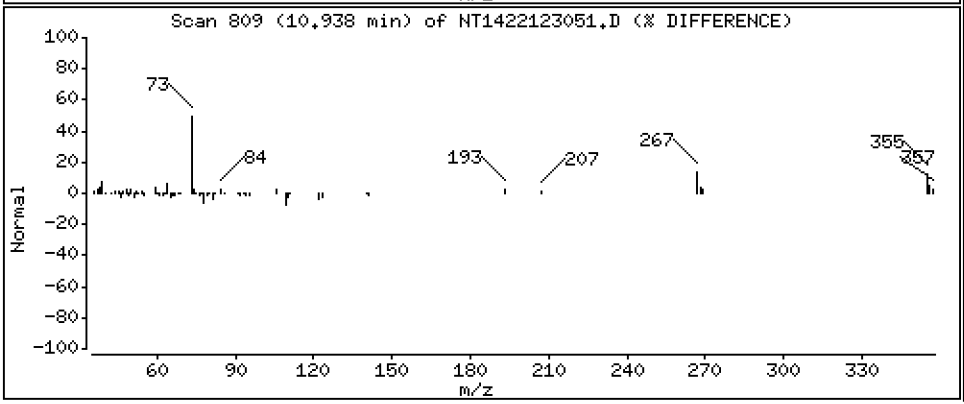
21 2-Nitrophenol

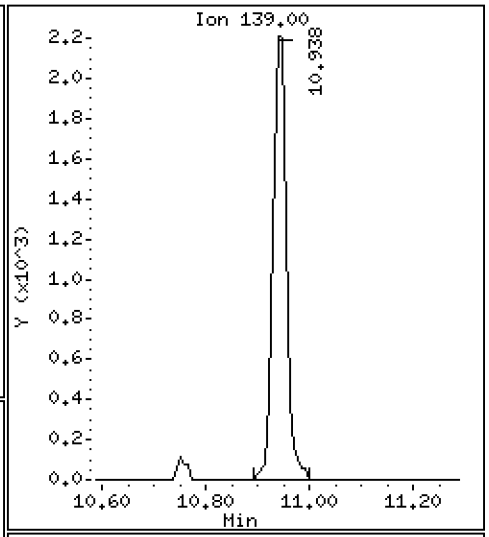
Concentration: 0.2028 ug/mL

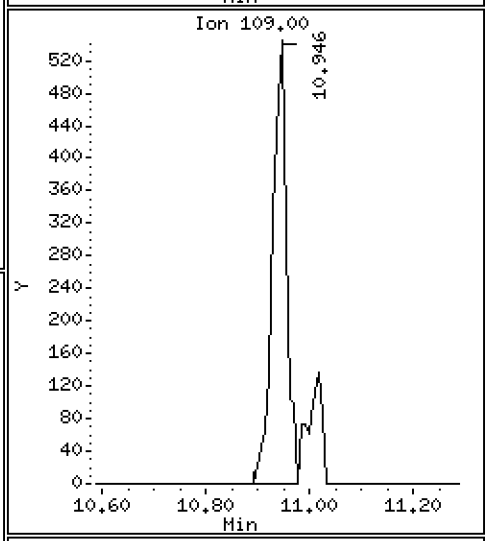


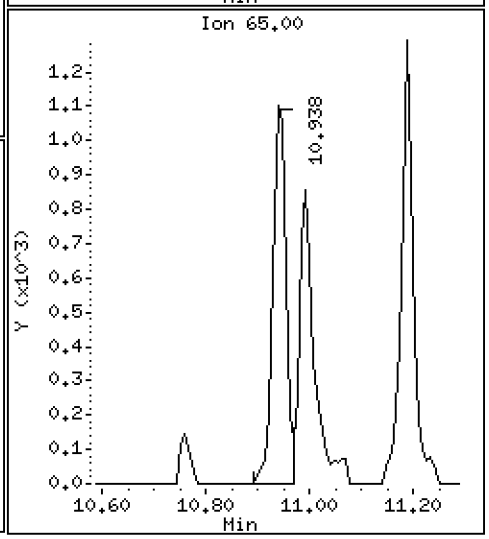












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

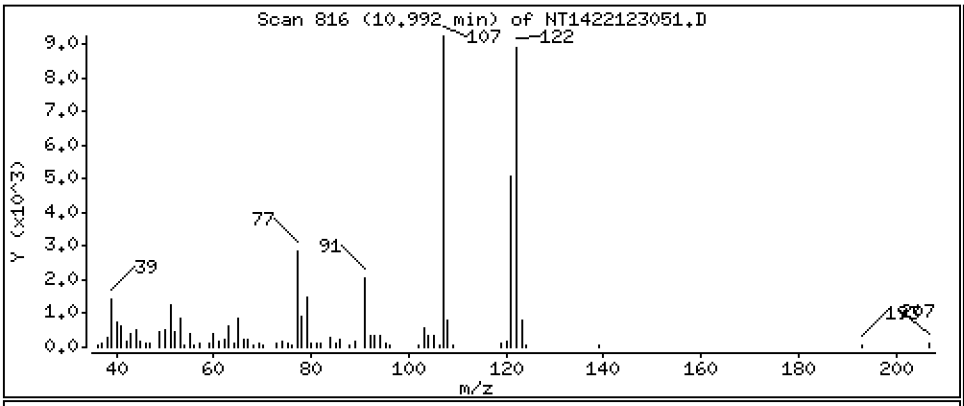
Operator: VTS

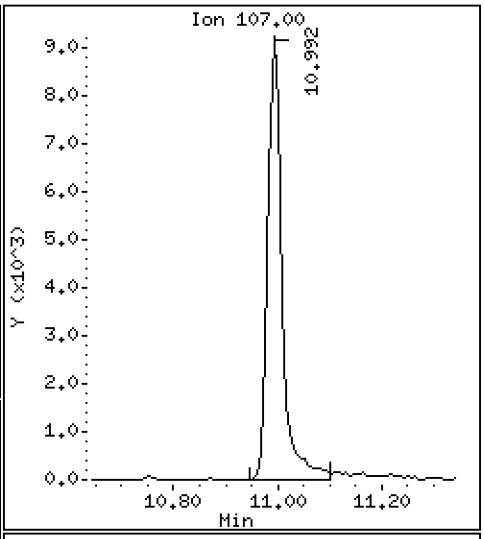
Column phase: ZB-5msi

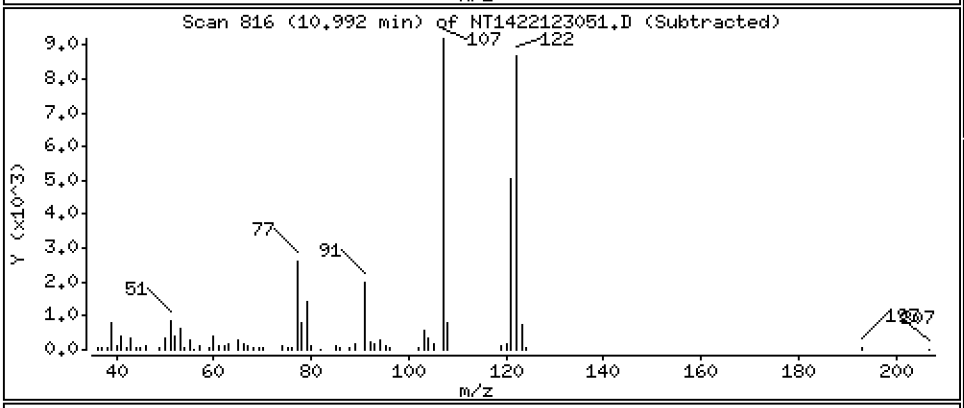
Column diameter: 0.25

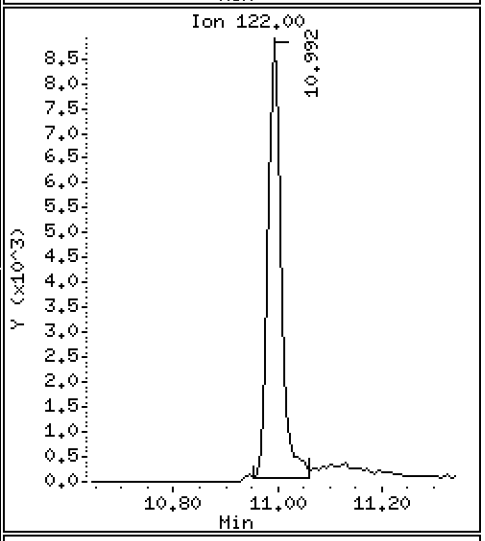
22 2,4-Dimethylphenol

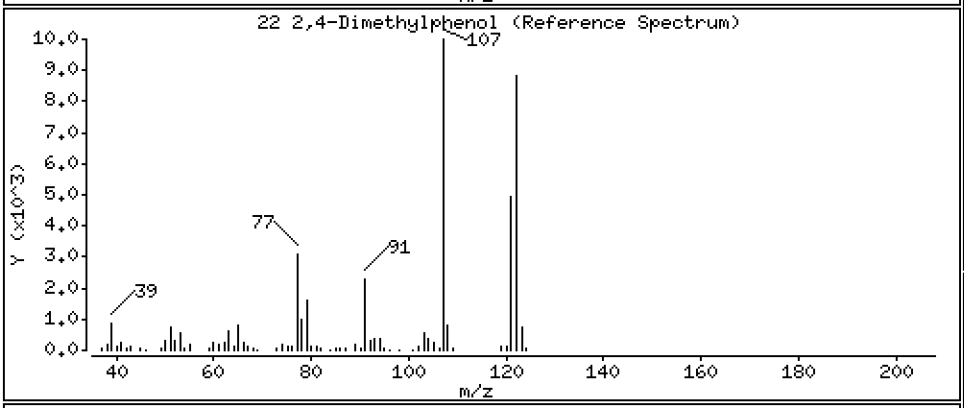
Concentration: 0.4556 ug/mL

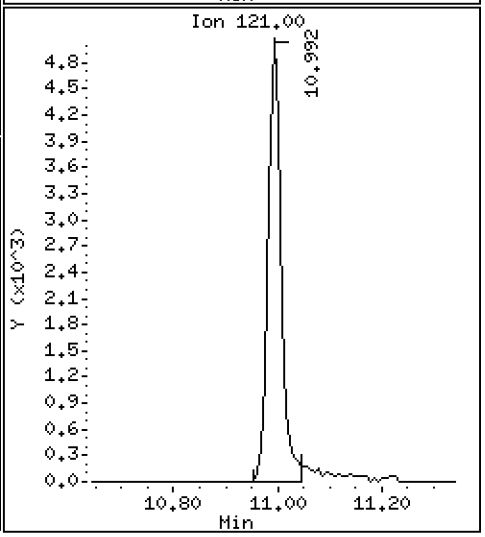


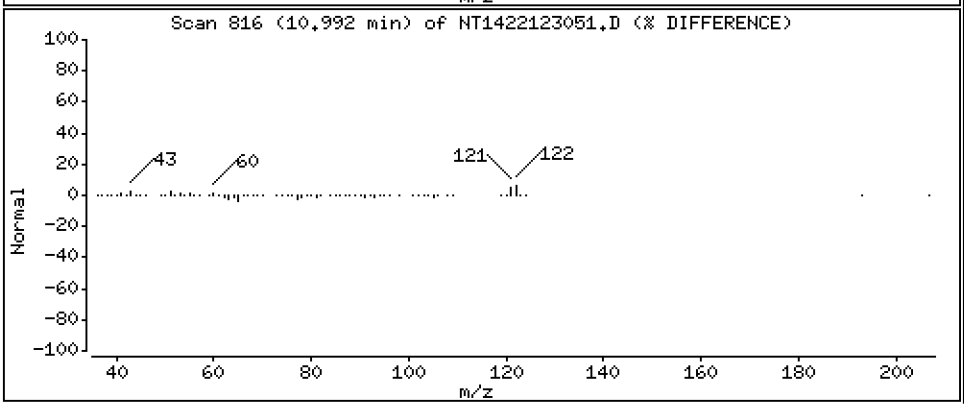












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

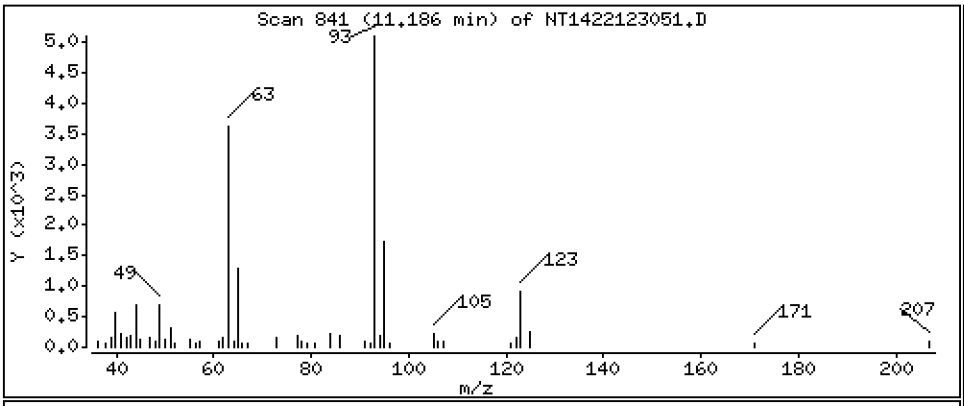
Operator: VTS

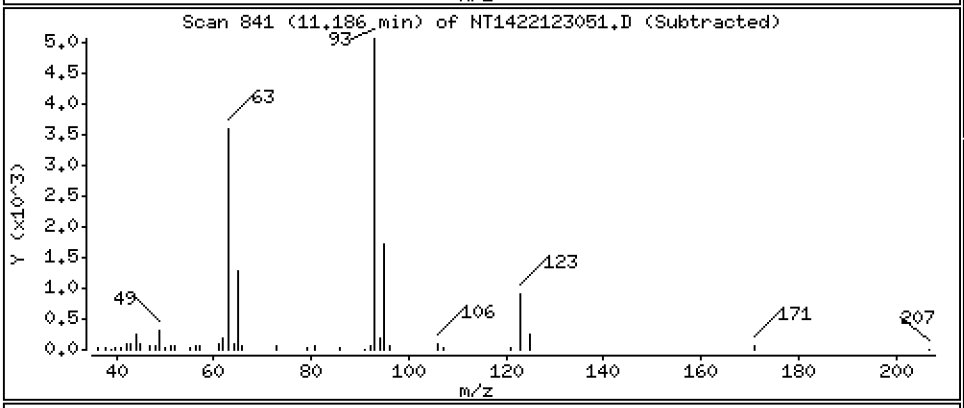
Column phase: ZB-5msi

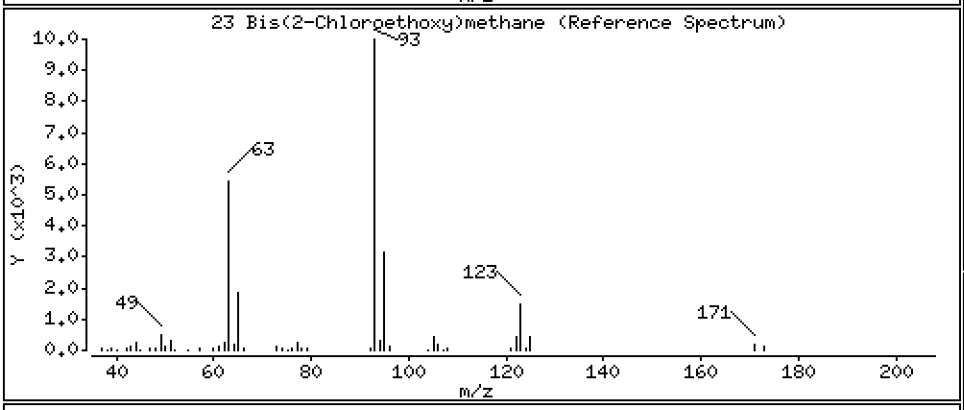
Column diameter: 0.25

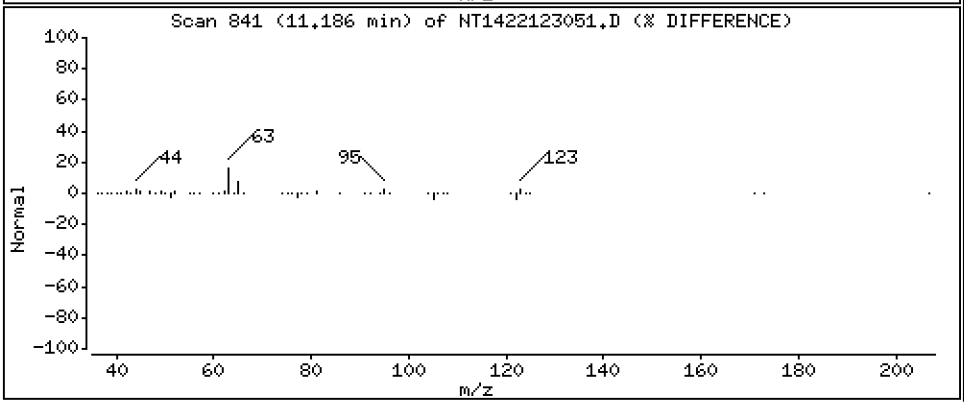
23 Bis(2-Chloroethoxy)methane

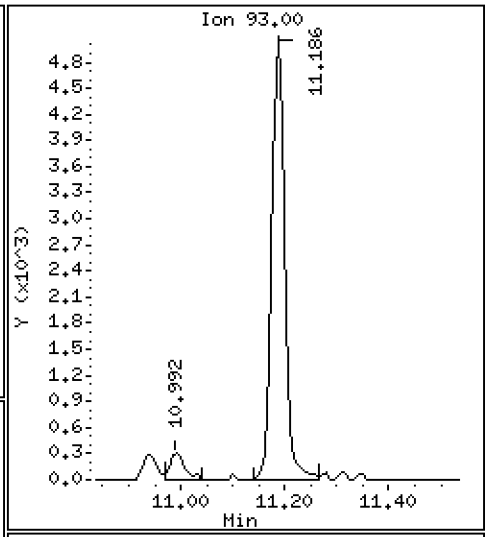
Concentration: 0.2358 ug/mL

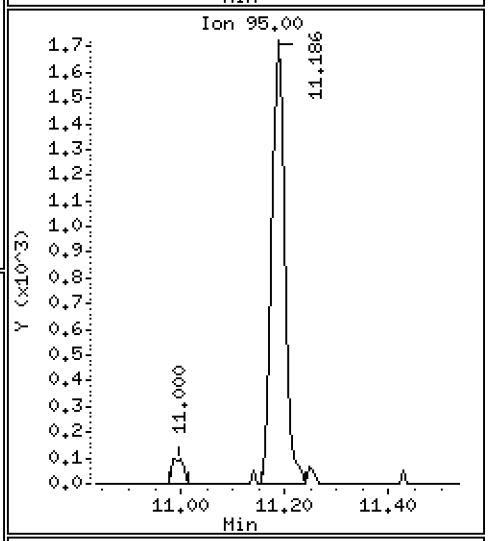


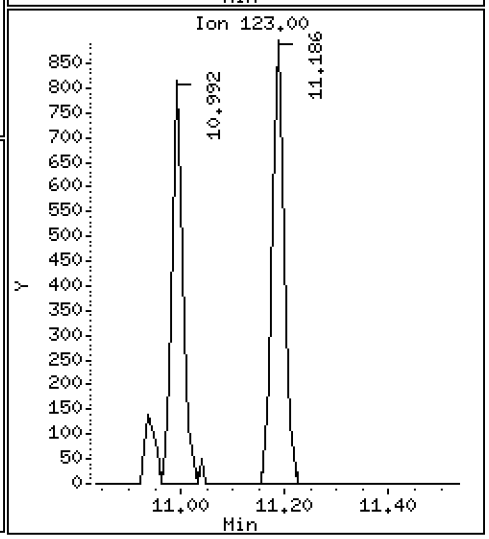












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

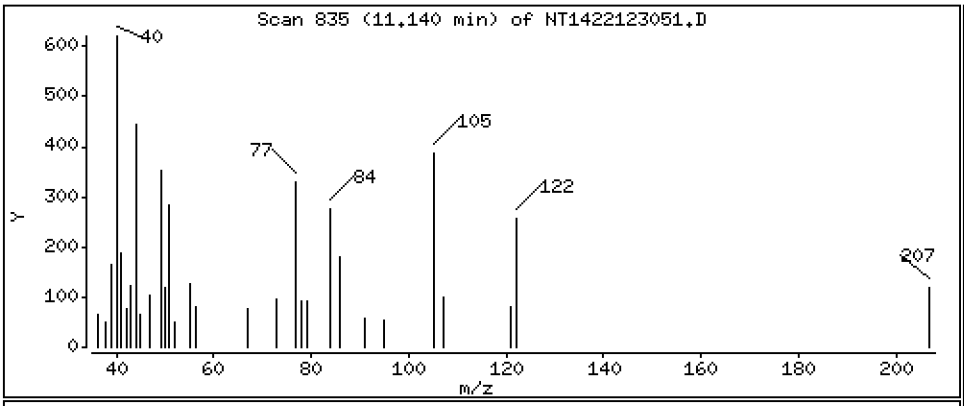
Operator: VTS

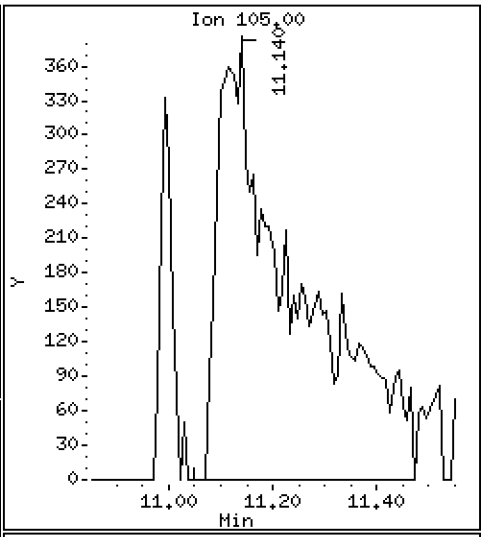
Column phase: ZB-5msi

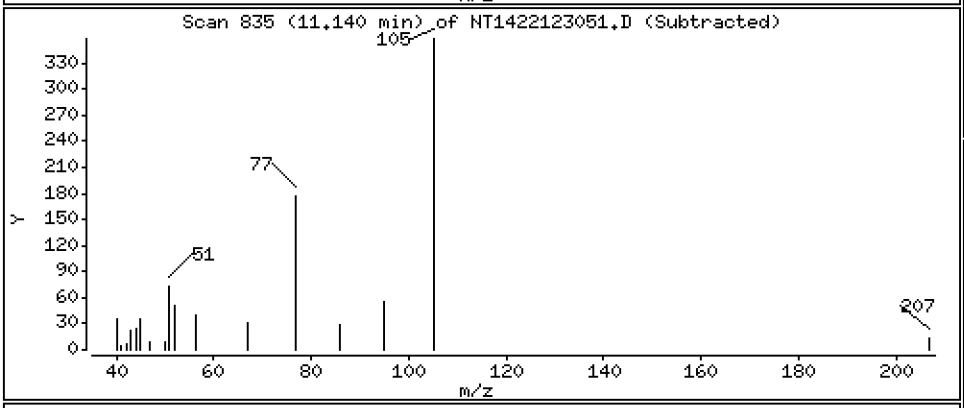
Column diameter: 0.25

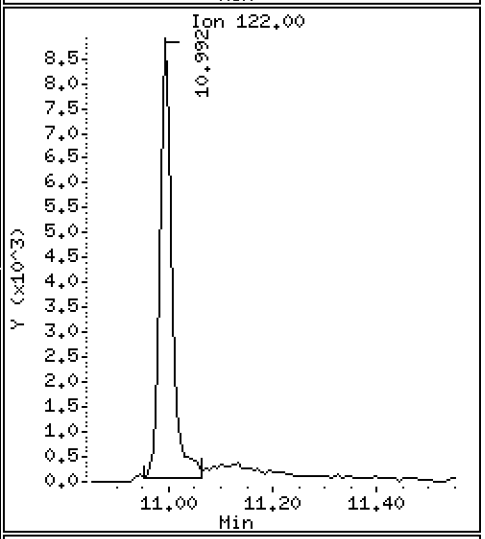
24 Benzoic acid

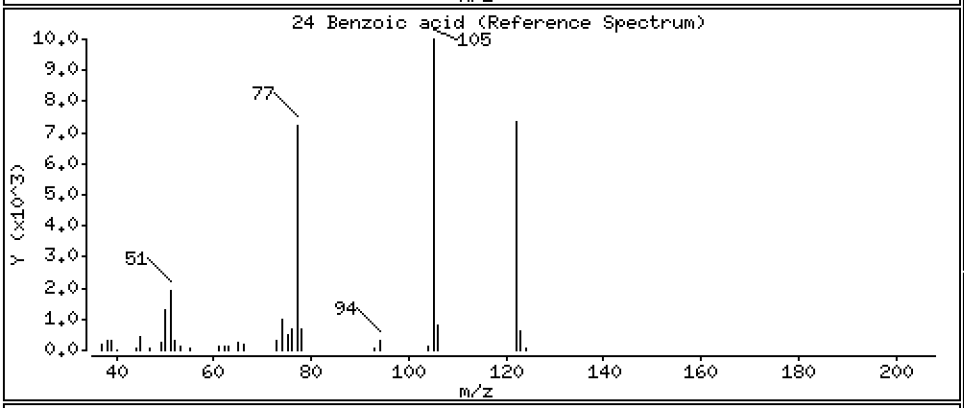
Concentration: 0.1748 ug/mL

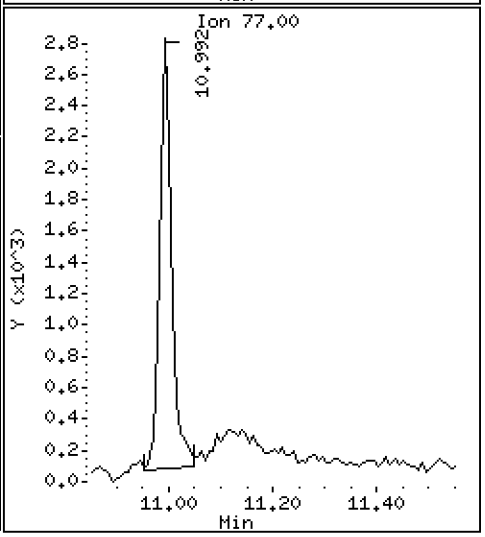


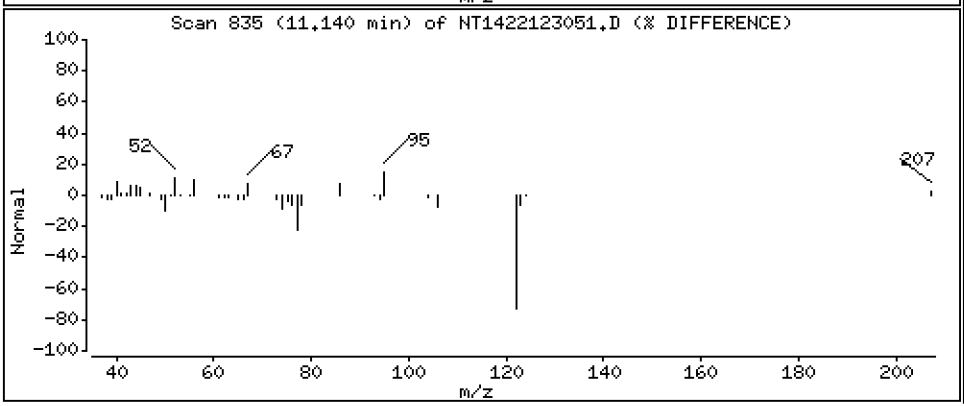












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

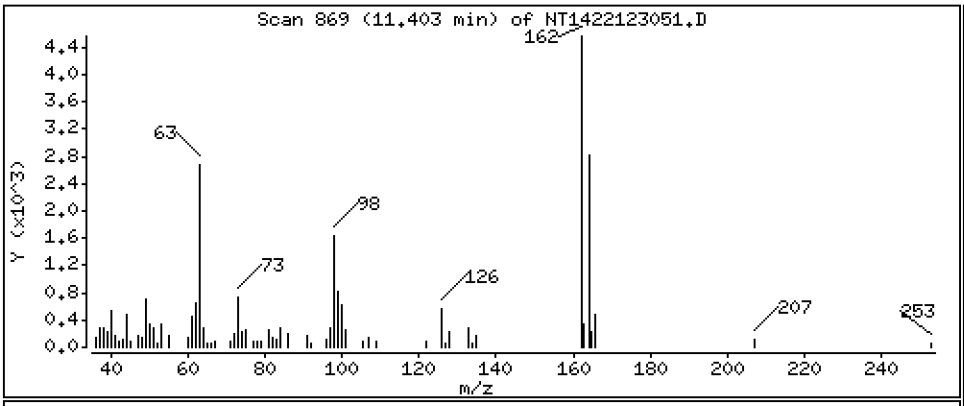
Operator: VTS

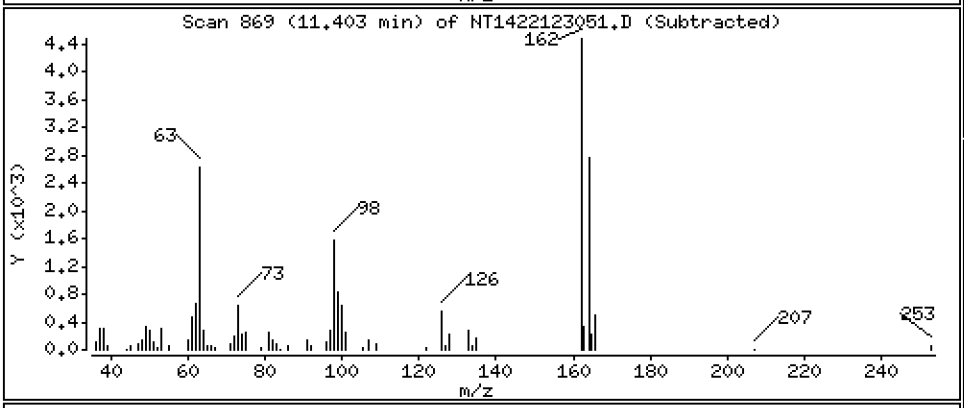
Column phase: ZB-5msi

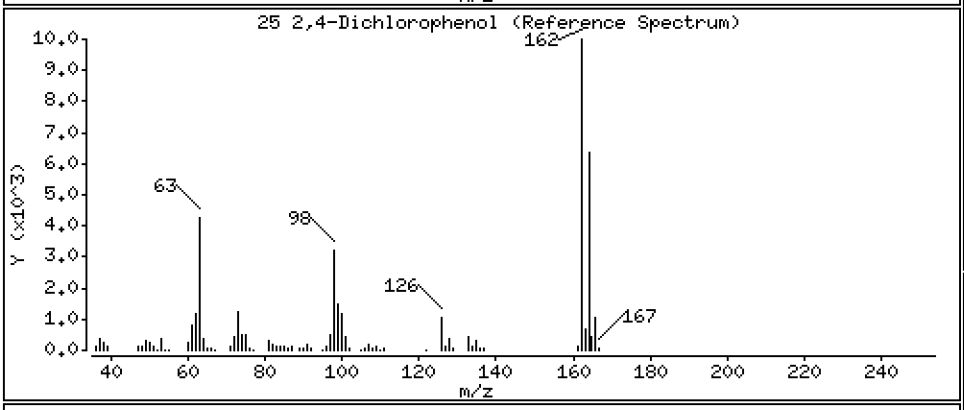
Column diameter: 0.25

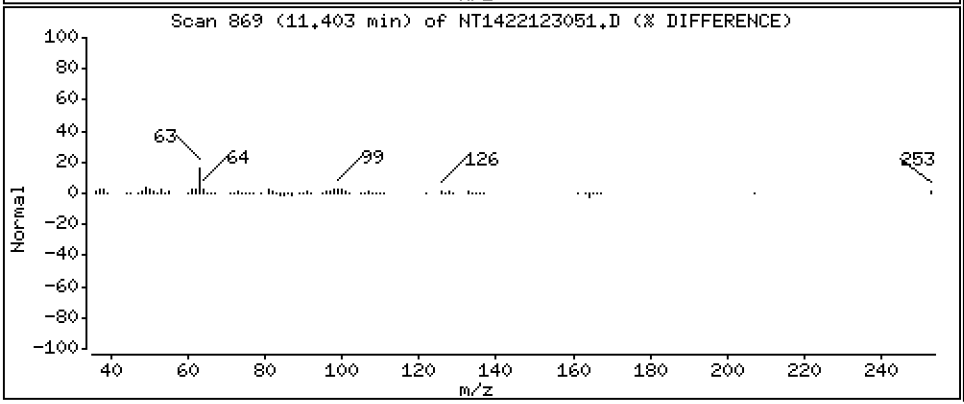
25 2,4-Dichlorophenol

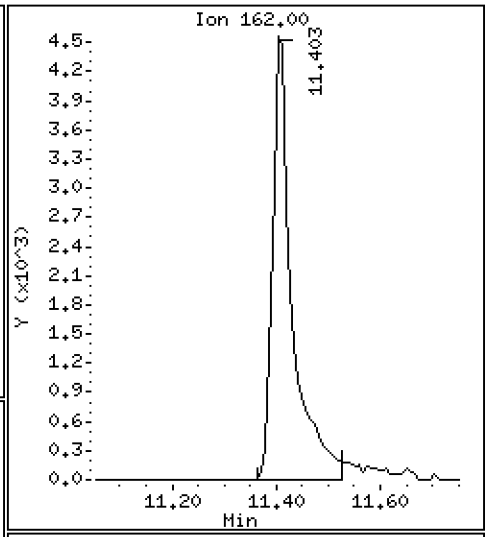
Concentration: 0.4132 ug/mL

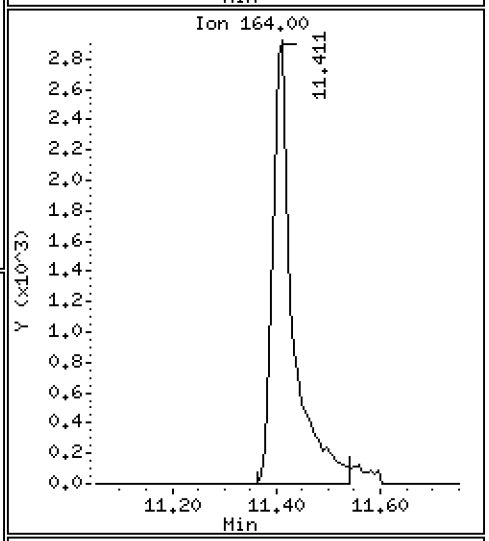


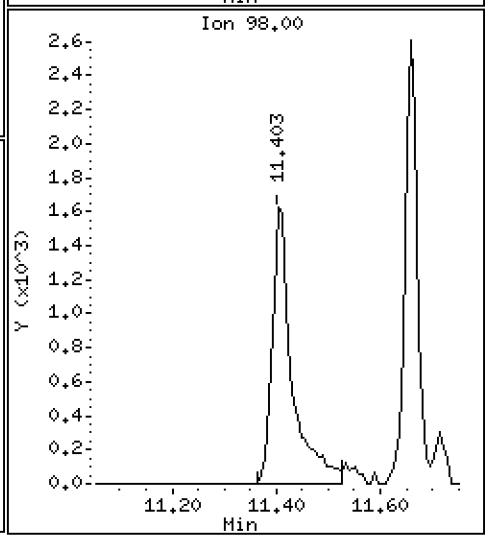












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

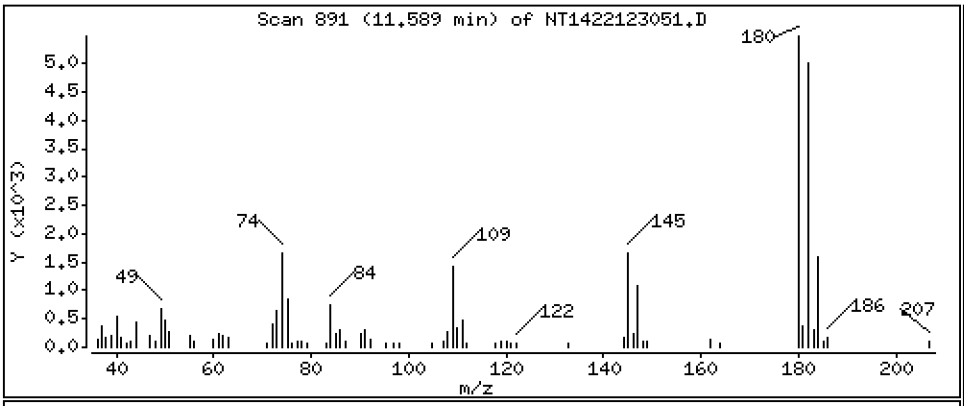
Operator: VTS

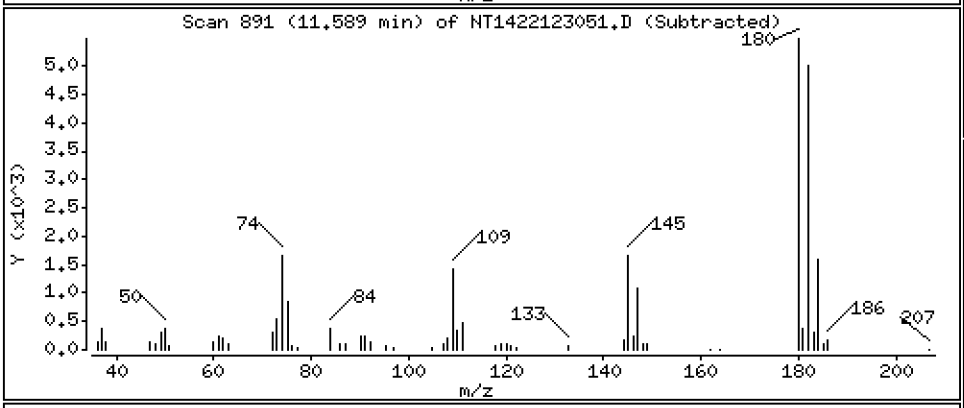
Column phase: ZB-5msi

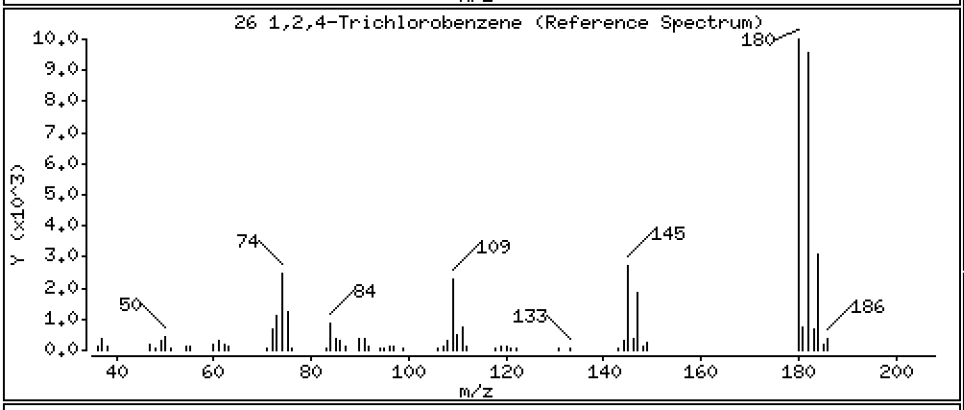
Column diameter: 0.25

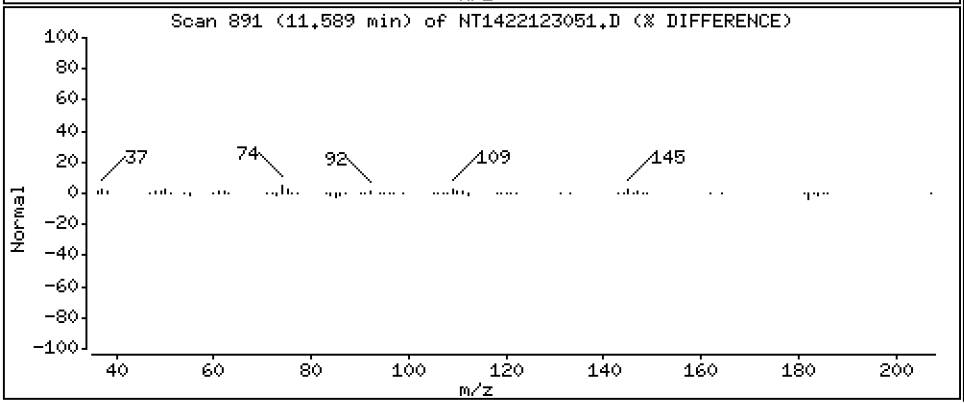
26 1,2,4-Trichlorobenzene

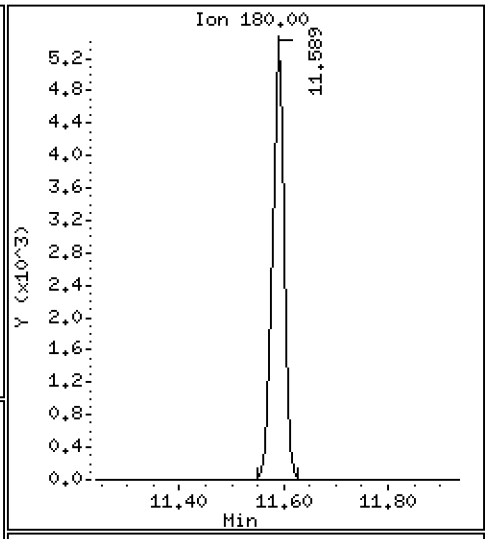
Concentration: 0.2422 ug/mL

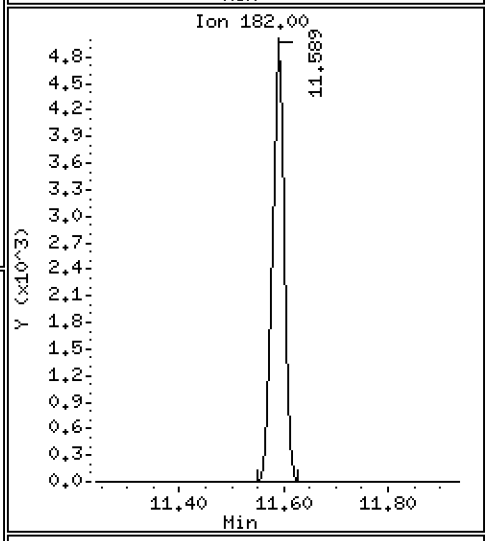


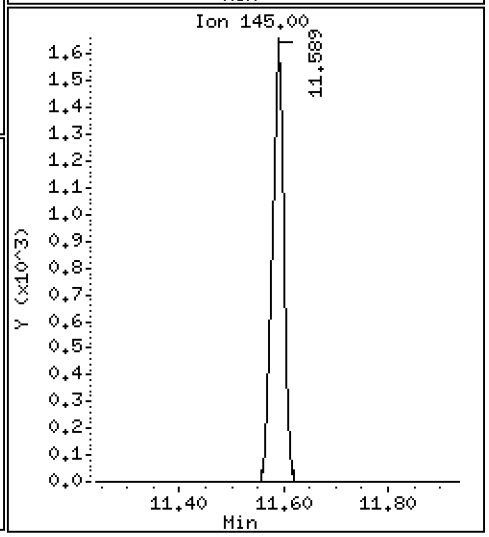












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

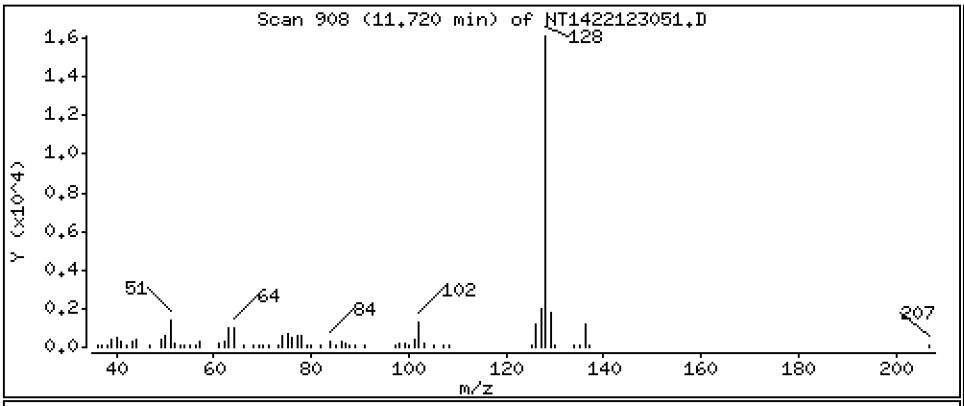
Operator: VTS

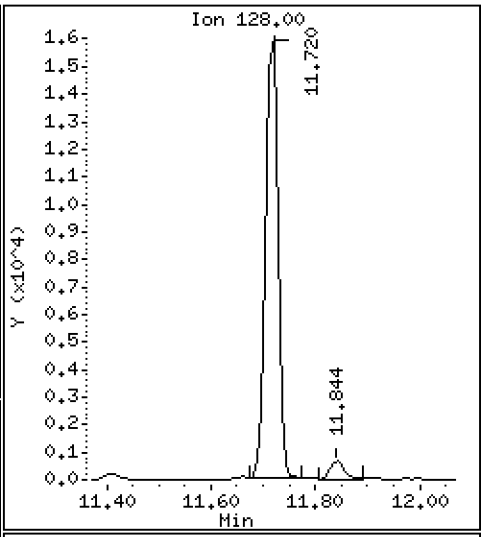
Column phase: ZB-5msi

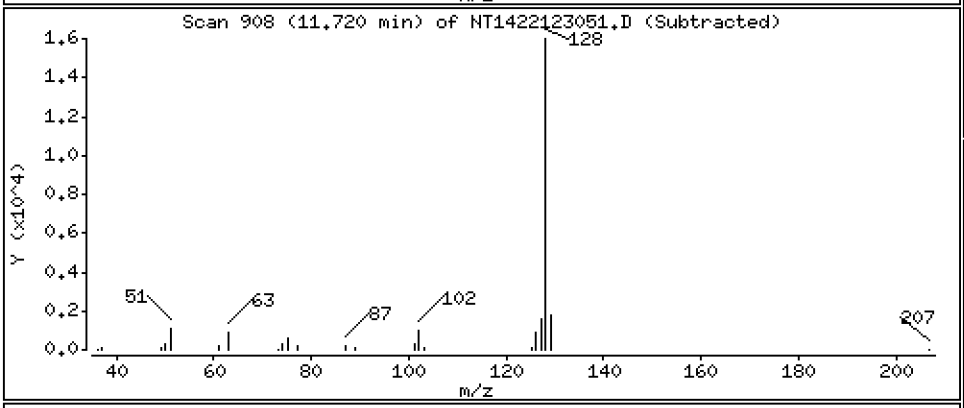
Column diameter: 0.25

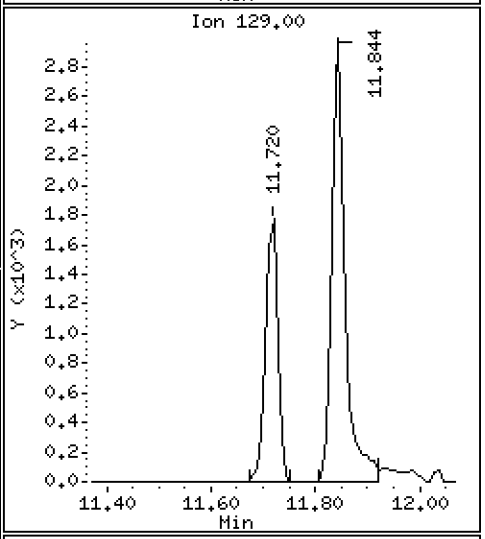
28 Naphthalene

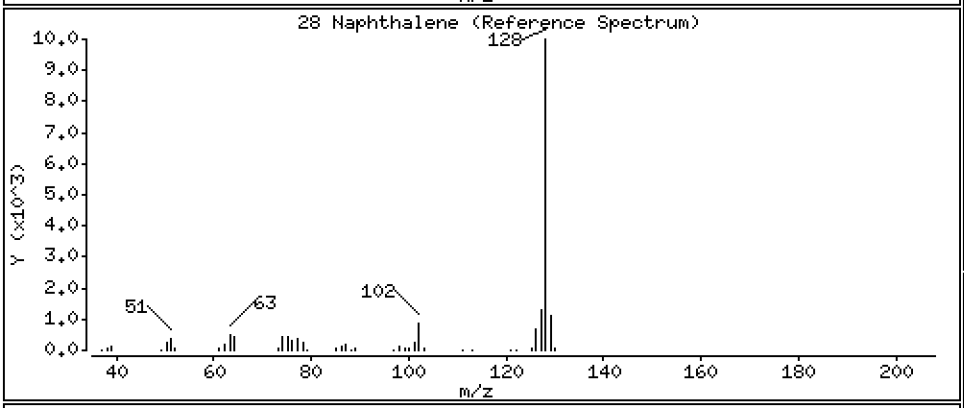
Concentration: 0.2377 ug/mL

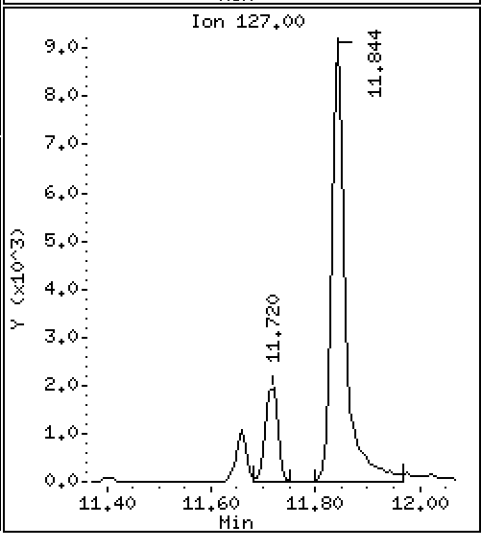


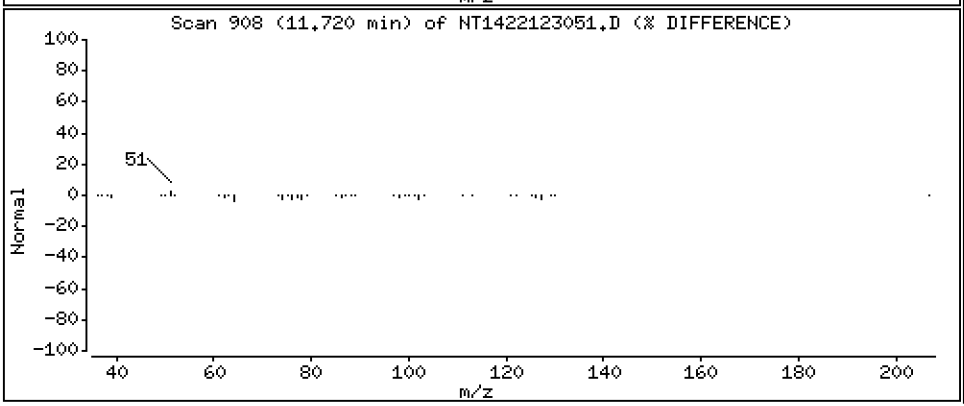












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

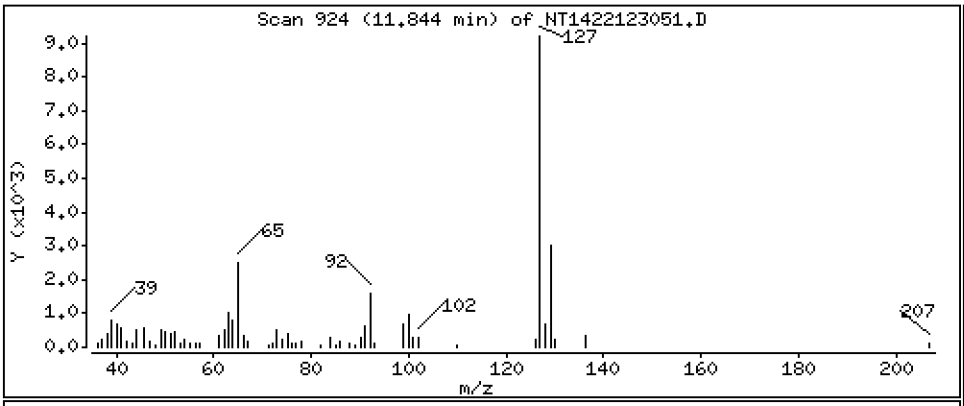
Operator: VTS

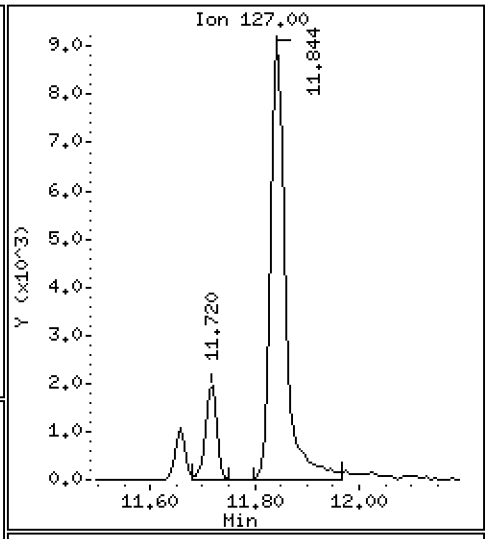
Column phase: ZB-5msi

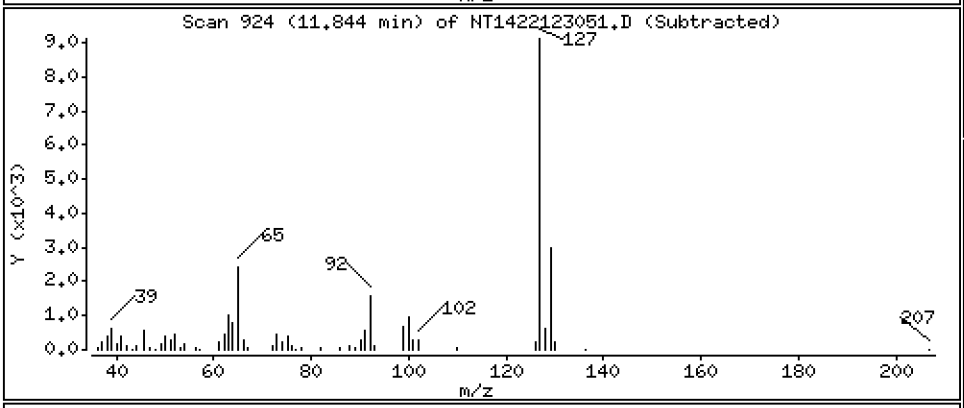
Column diameter: 0.25

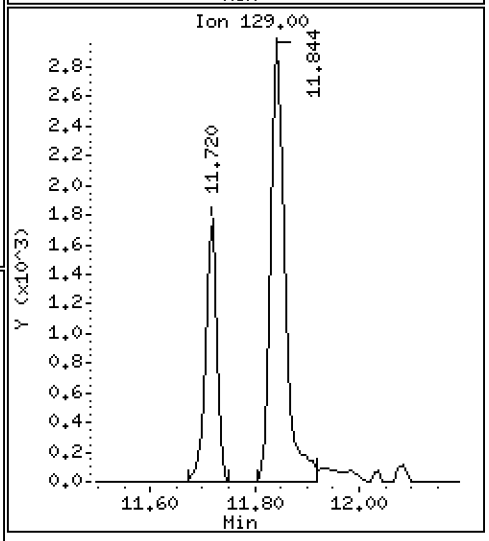
29 4-Chloroaniline

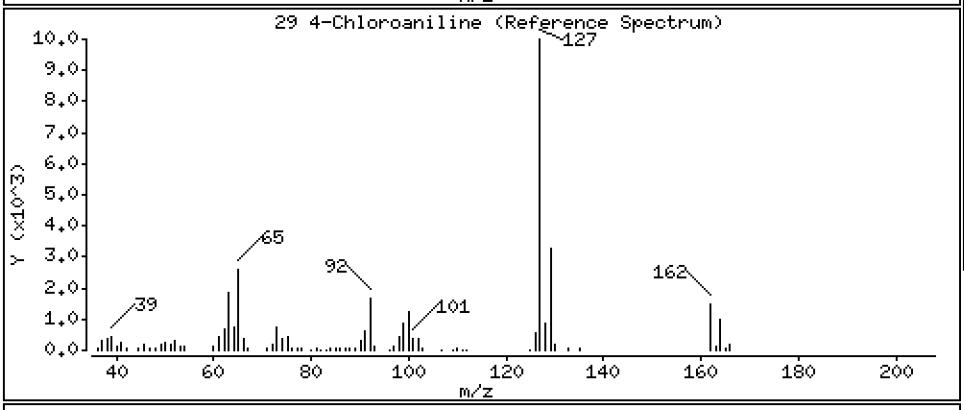
Concentration: 0.4058 ug/mL

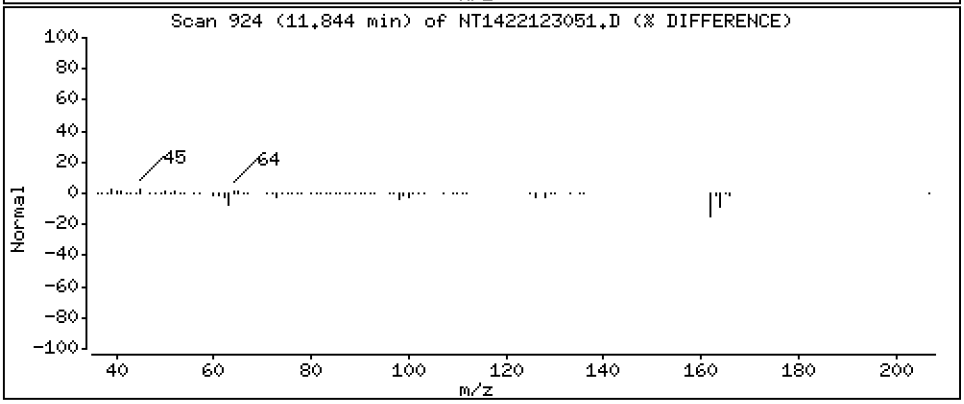












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

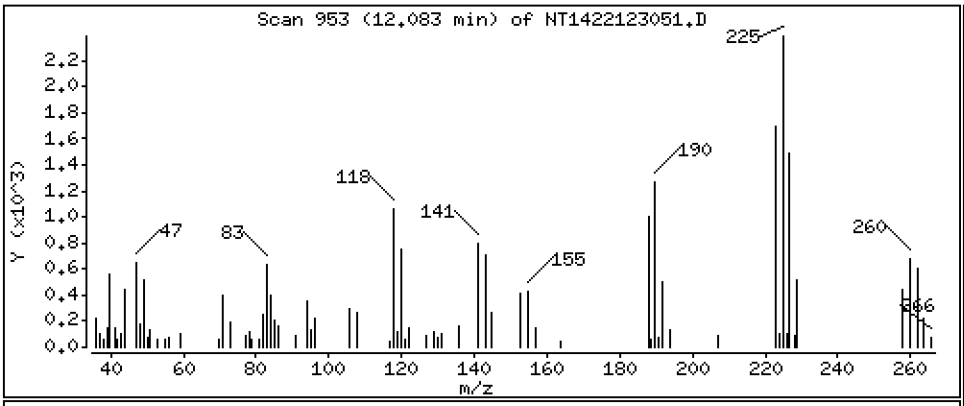
Operator: VTS

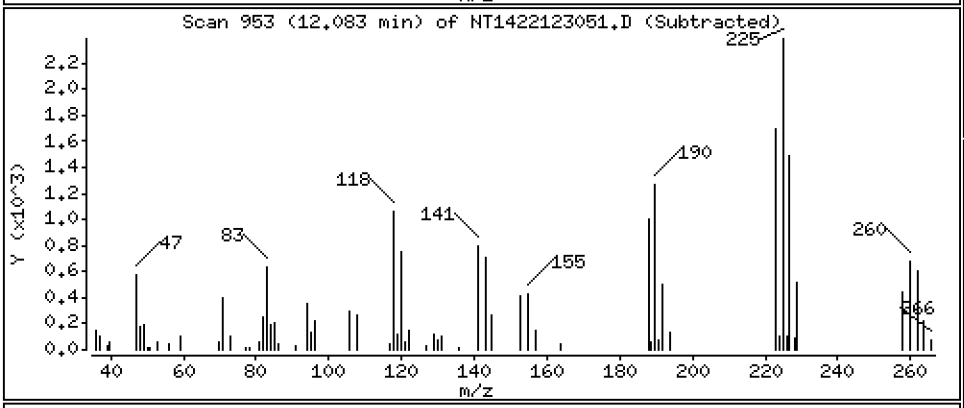
Column phase: ZB-5msi

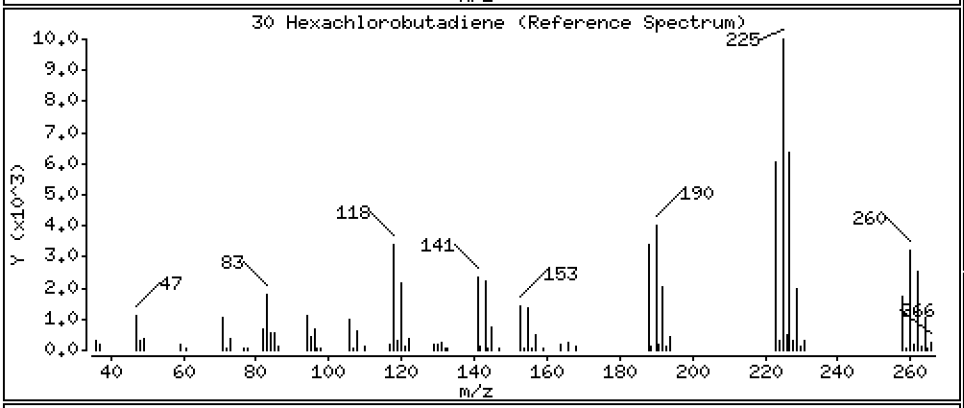
Column diameter: 0.25

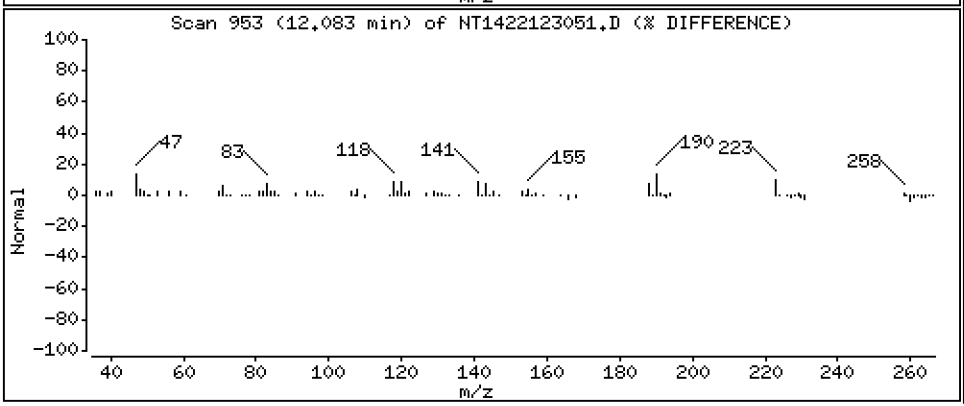
30 Hexachlorobutadiene

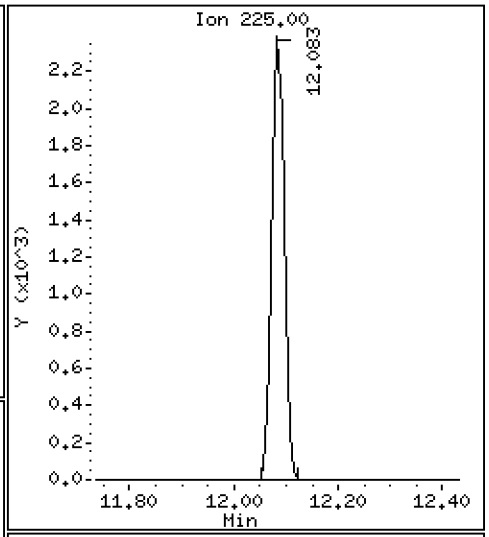
Concentration: 0.2223 ug/mL

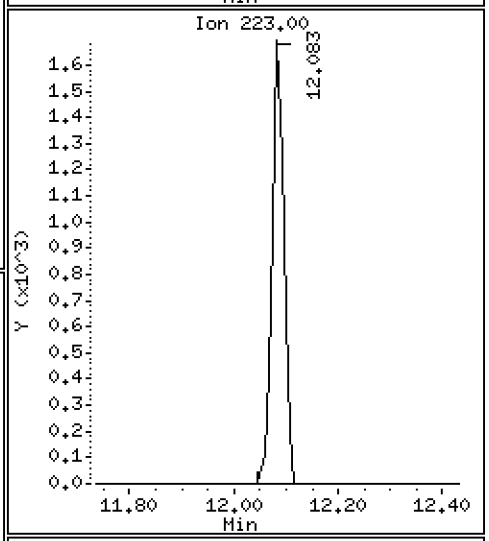


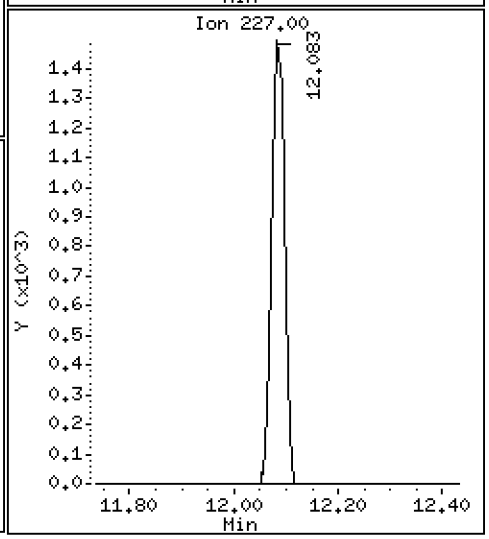












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

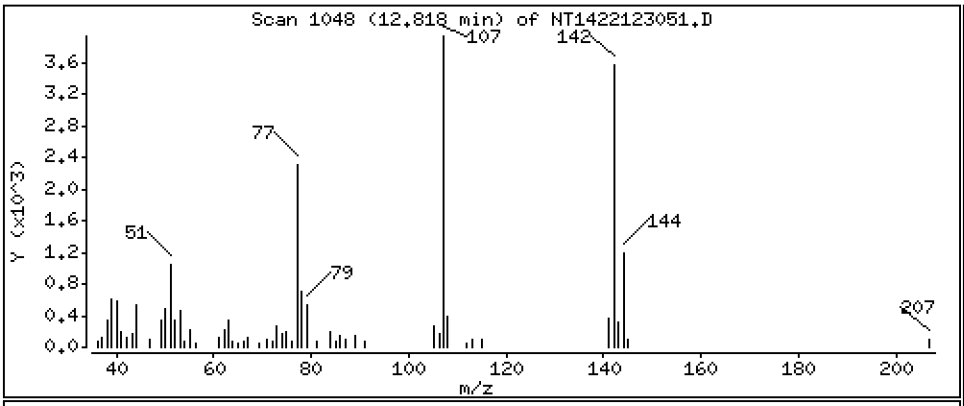
Operator: VTS

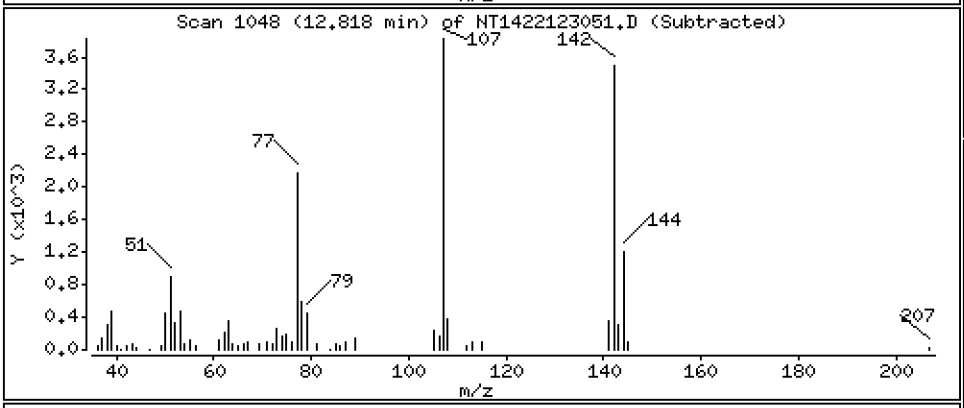
Column phase: ZB-5msi

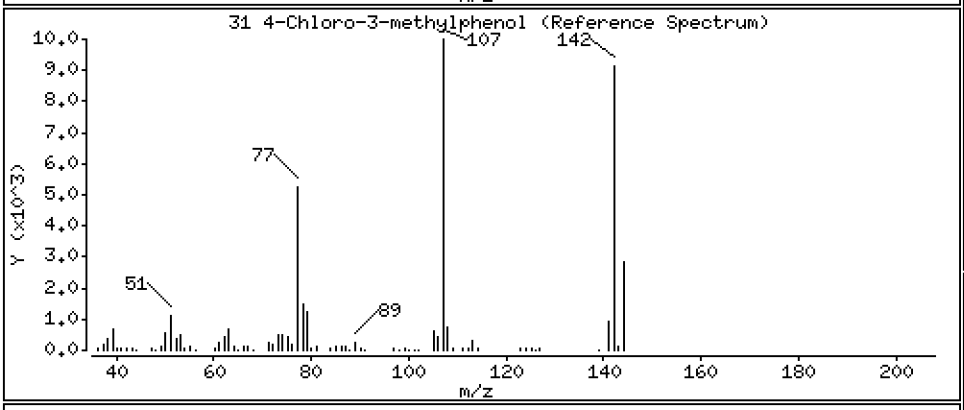
Column diameter: 0.25

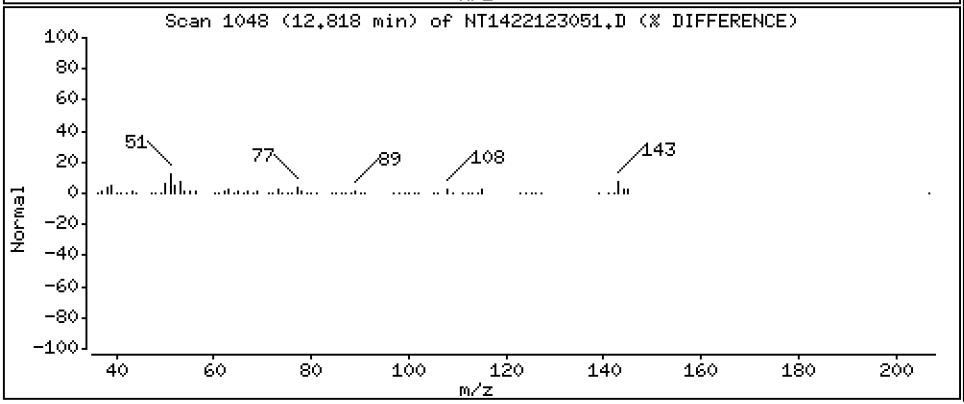
31 4-Chloro-3-methylphenol

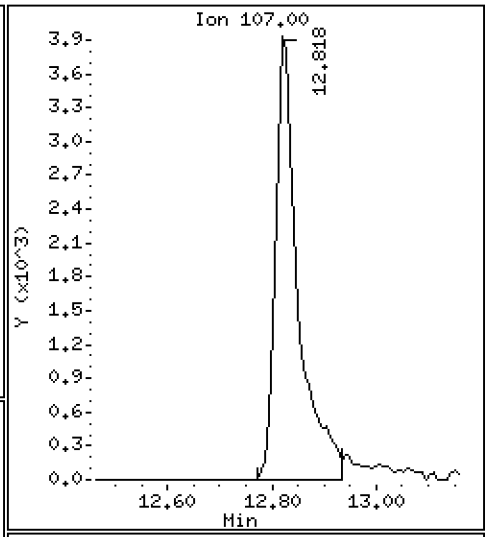
Concentration: 0.4010 ug/mL

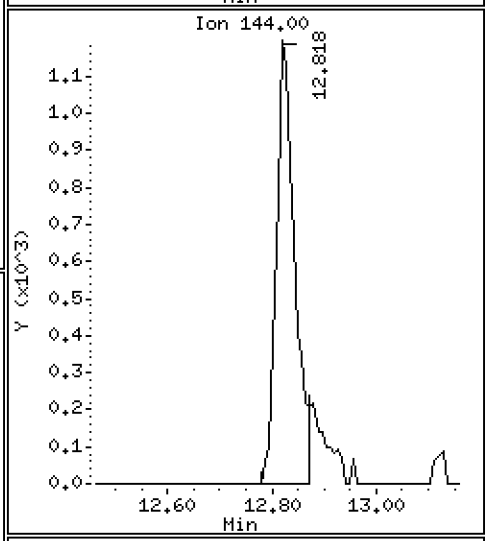


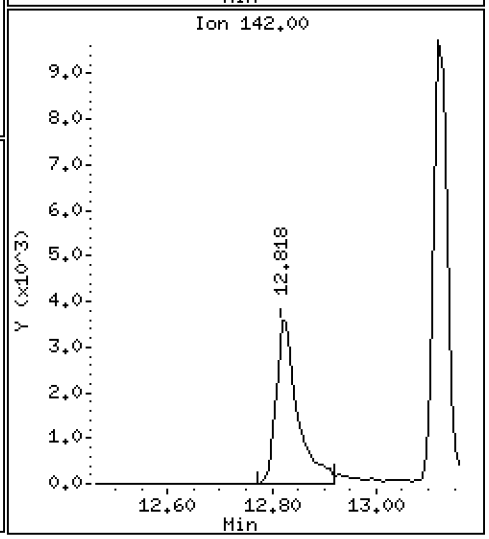












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

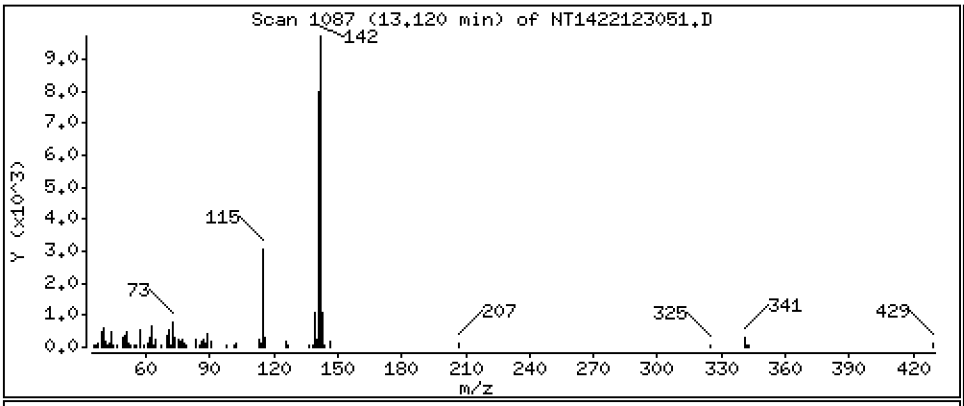
Operator: VTS

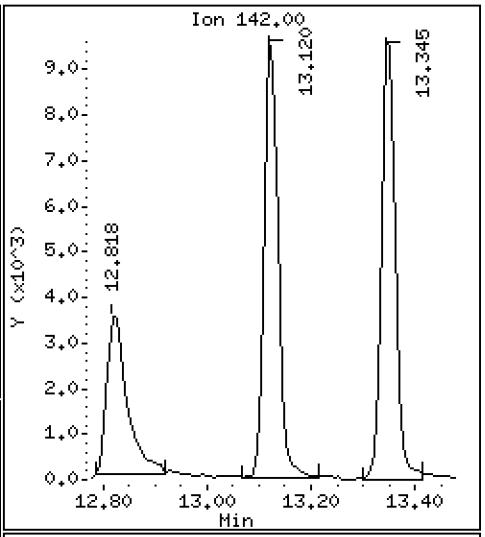
Column phase: ZB-5msi

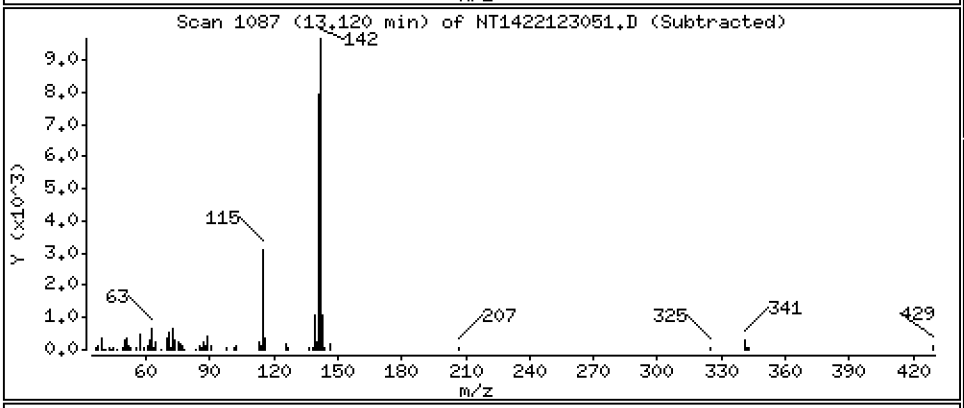
Column diameter: 0.25

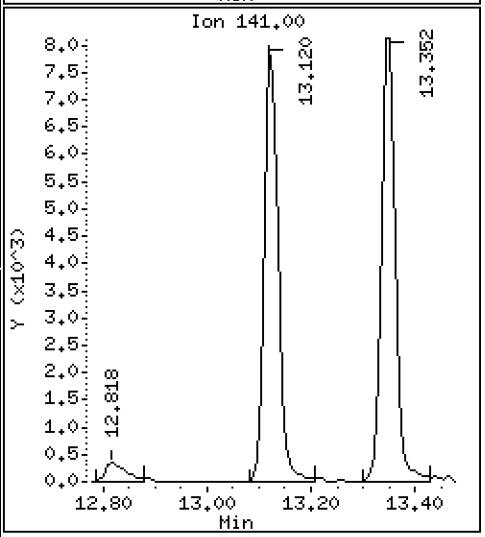
32 2-Methylnaphthalene

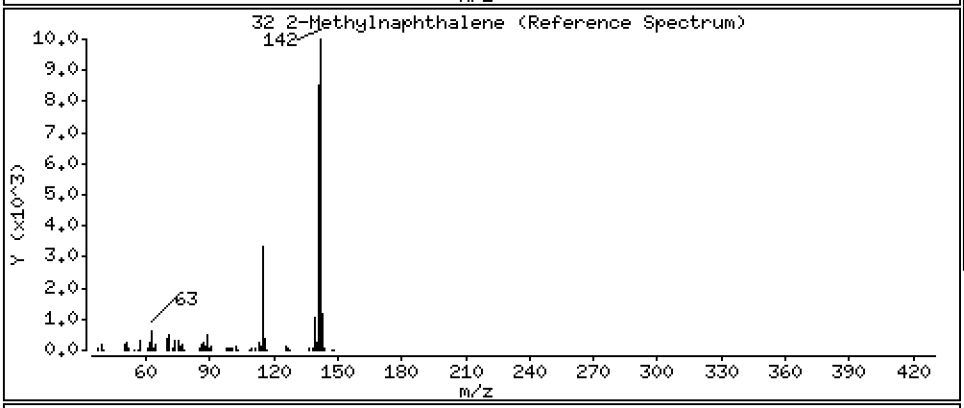
Concentration: 0.2231 ug/mL

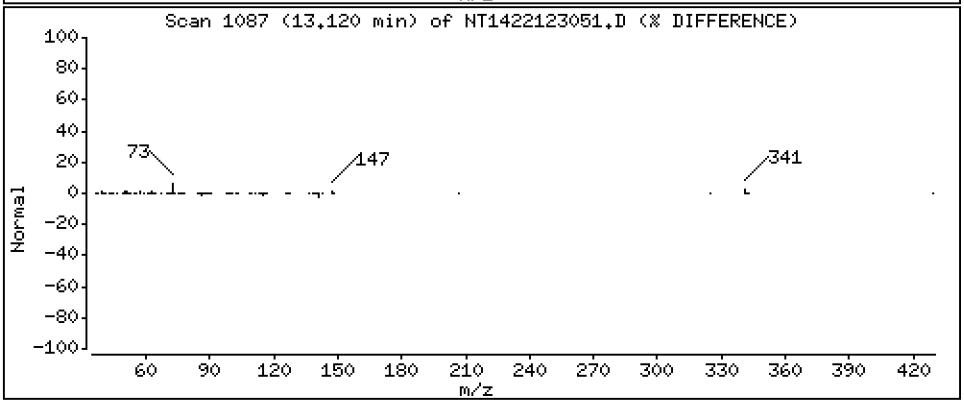












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

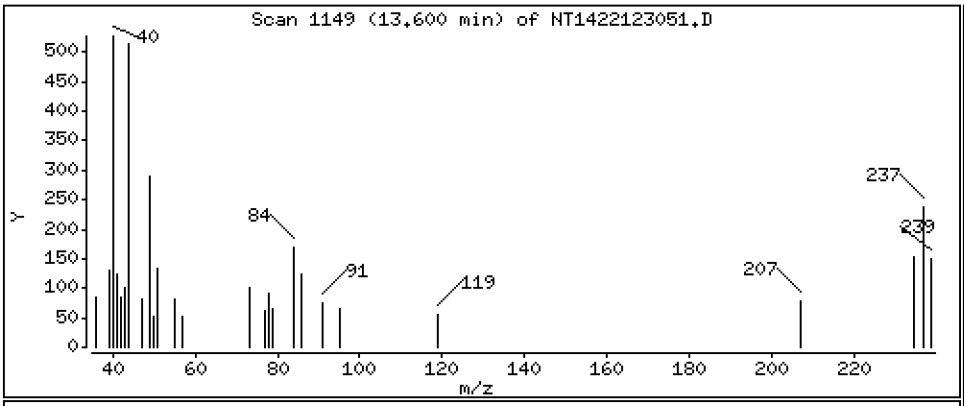
Operator: VTS

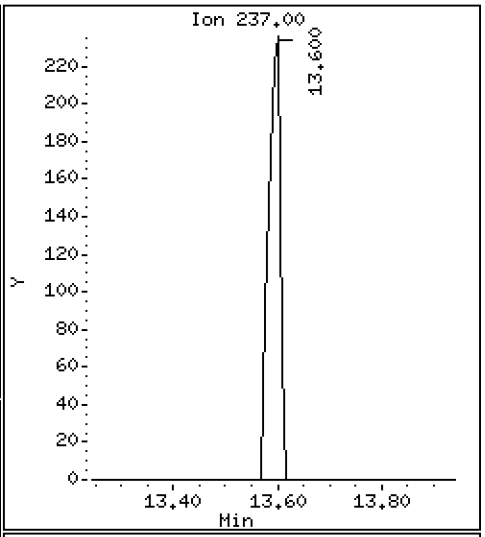
Column phase: ZB-5msi

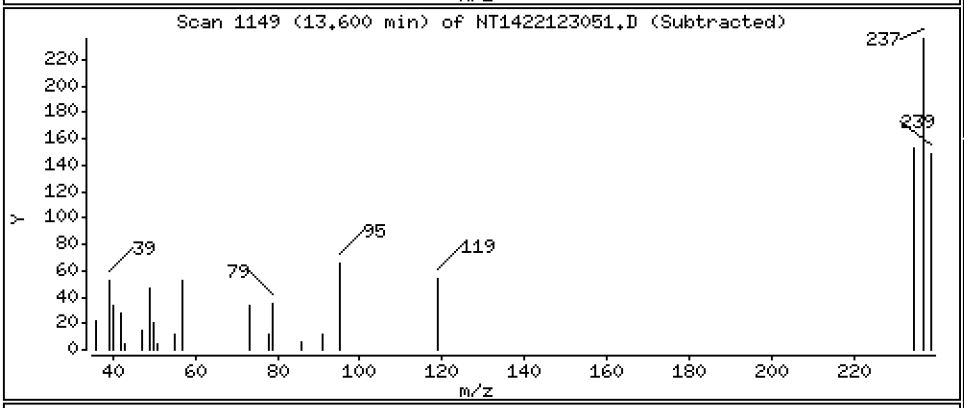
Column diameter: 0.25

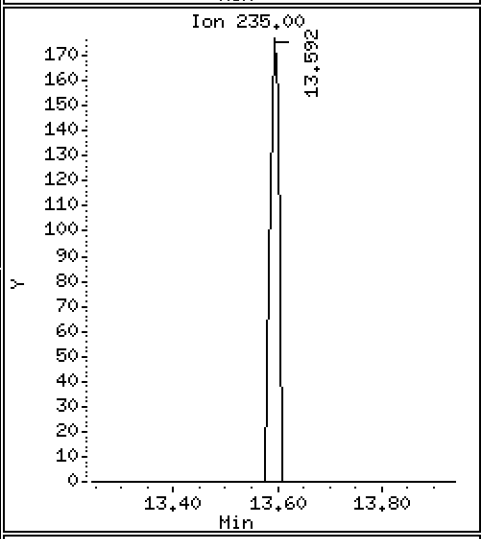
33 Hexachlorocyclopentadiene

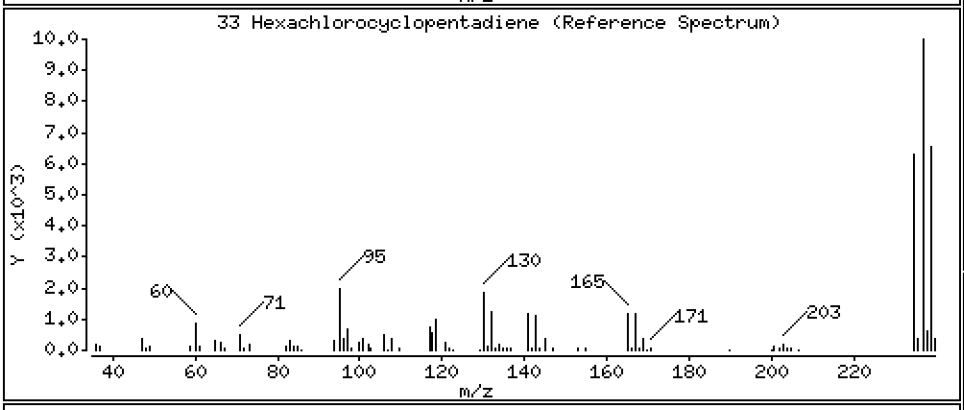
Concentration: 0.02150 ug/mL

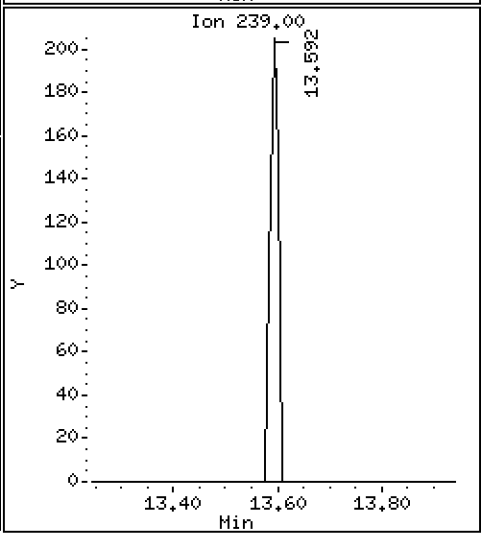


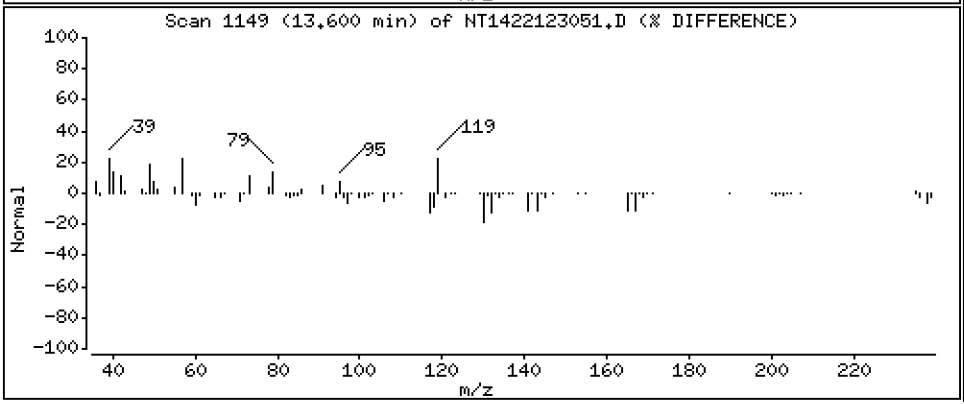












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

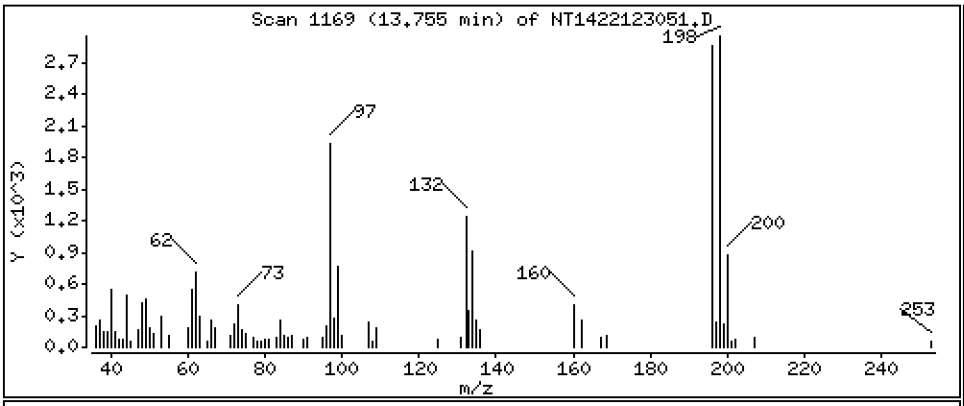
Operator: VTS

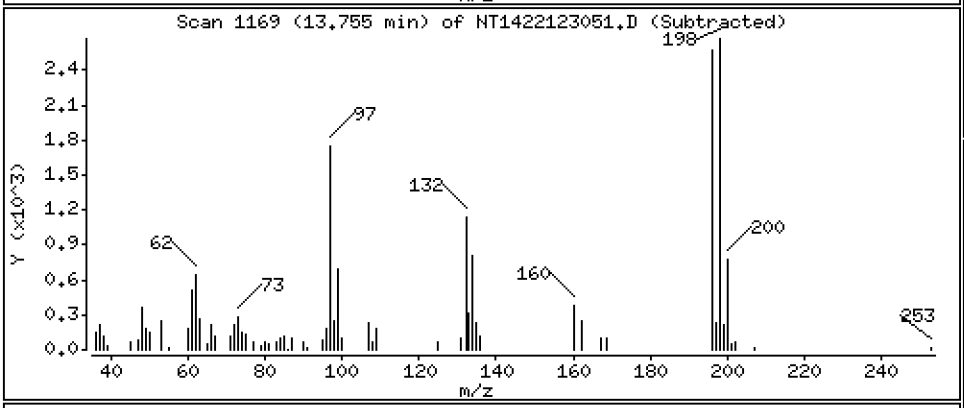
Column phase: ZB-5msi

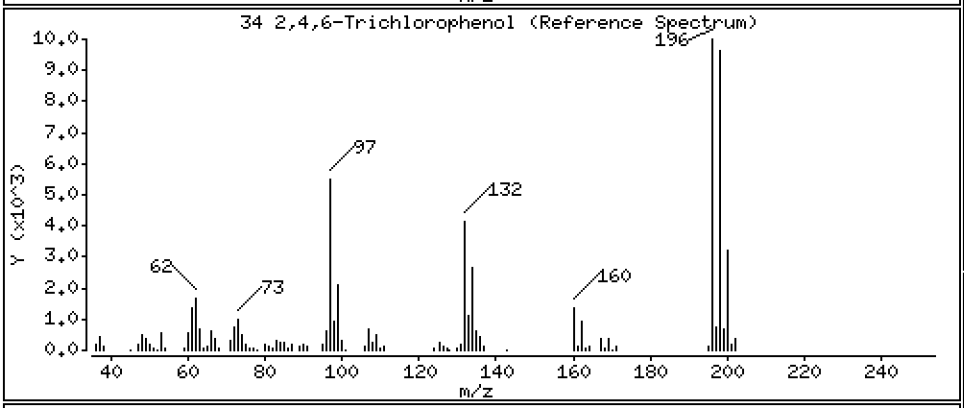
Column diameter: 0.25

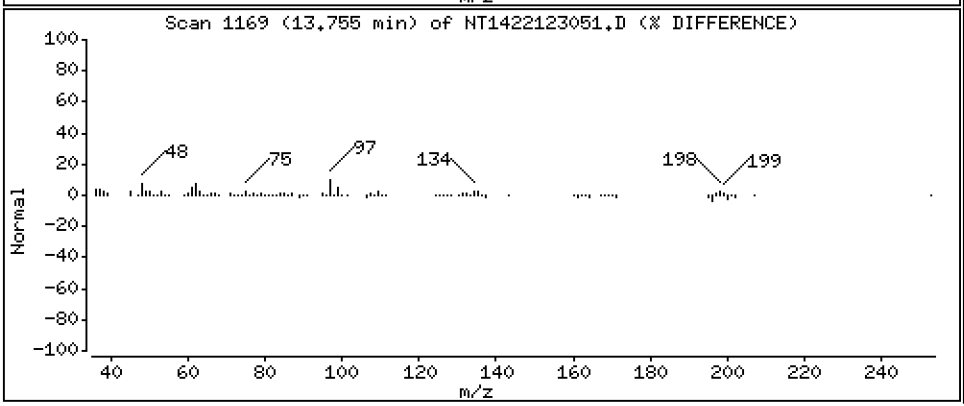
34 2,4,6-Trichlorophenol

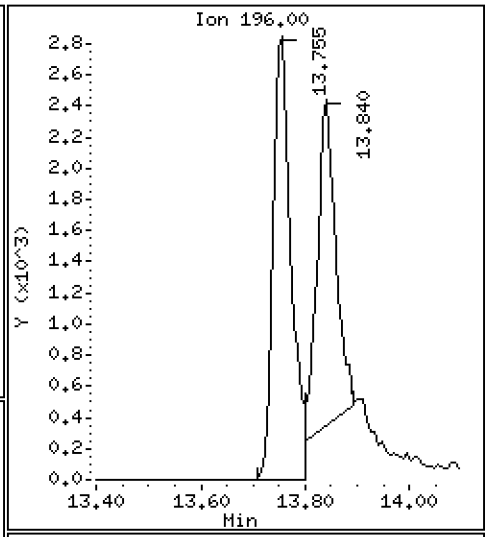
Concentration: 0.3746 ug/mL

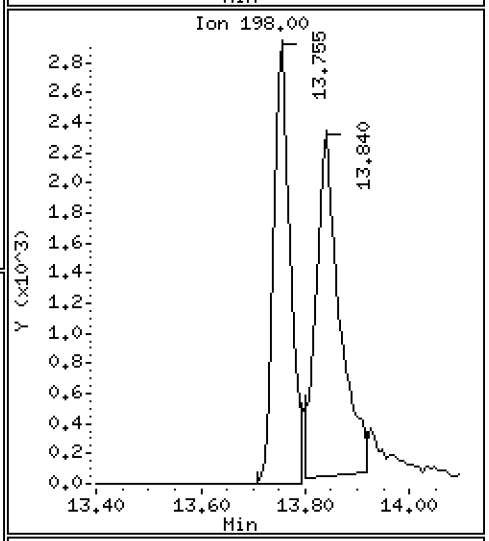


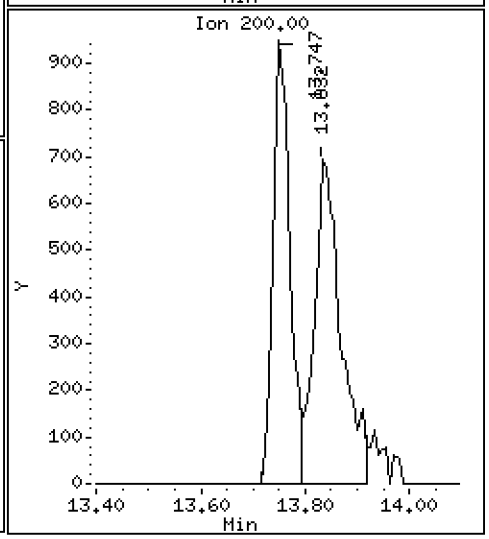












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

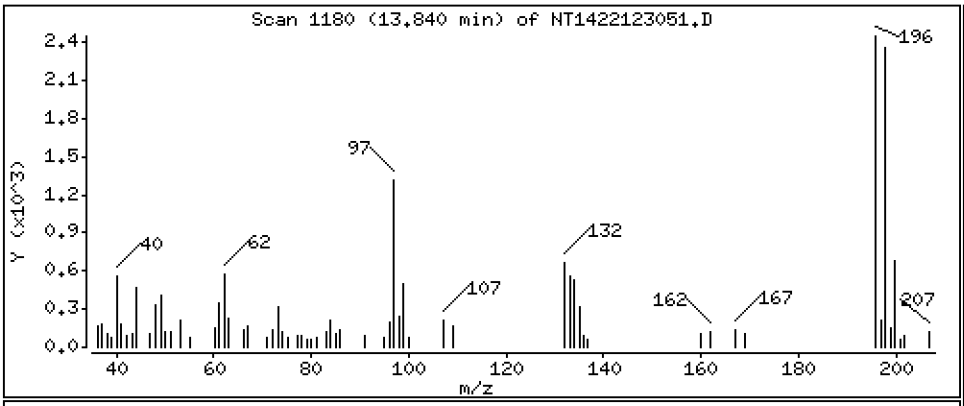
Operator: VTS

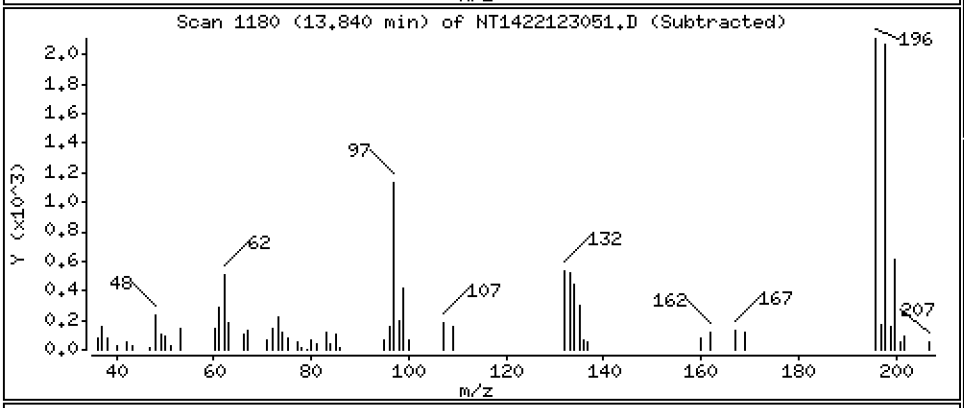
Column phase: ZB-5msi

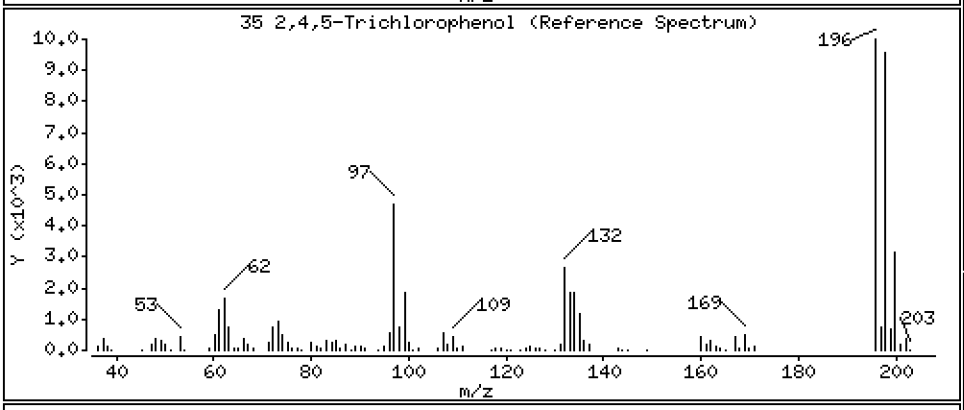
Column diameter: 0.25

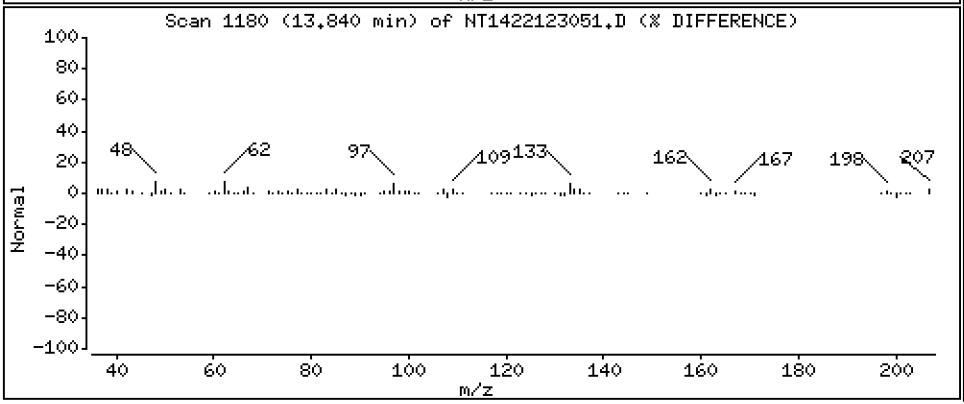
35 2,4,5-Trichlorophenol

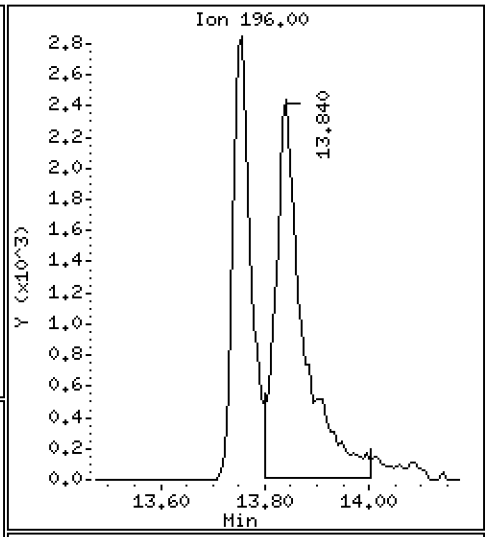
Concentration: 0.4316 ug/mL

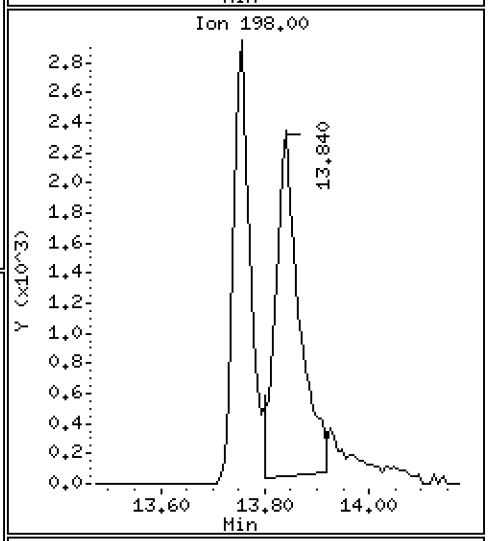


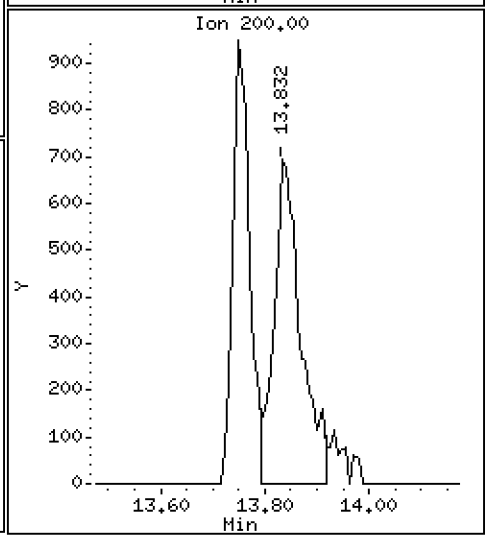












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

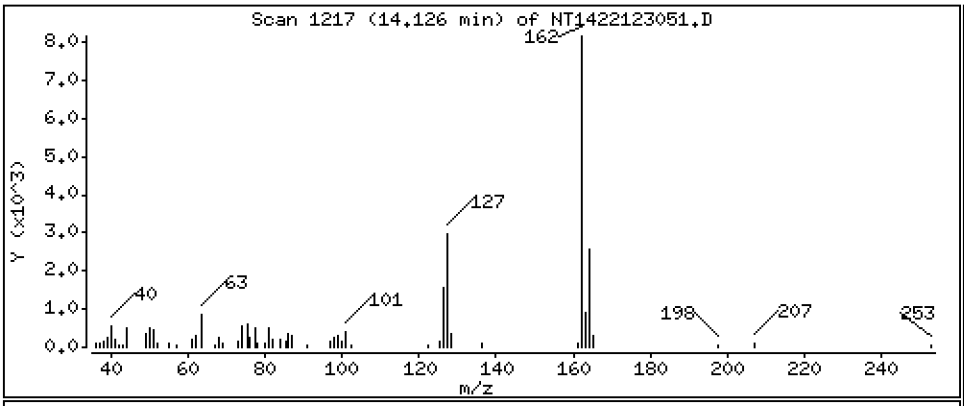
Operator: VTS

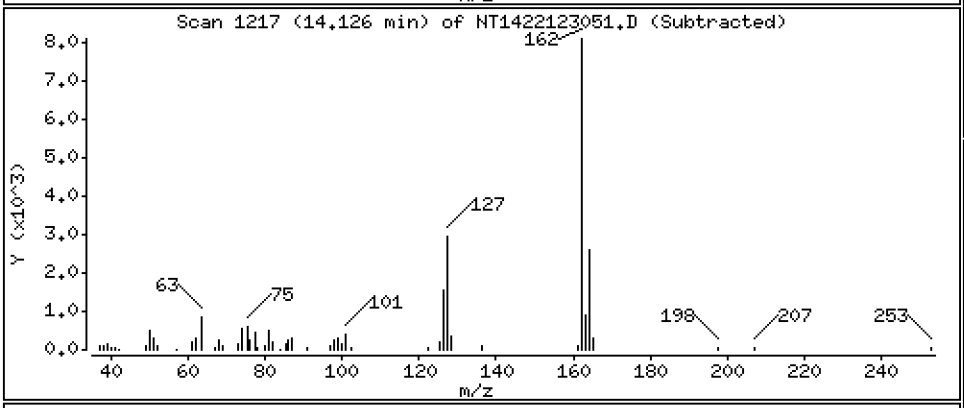
Column phase: ZB-5msi

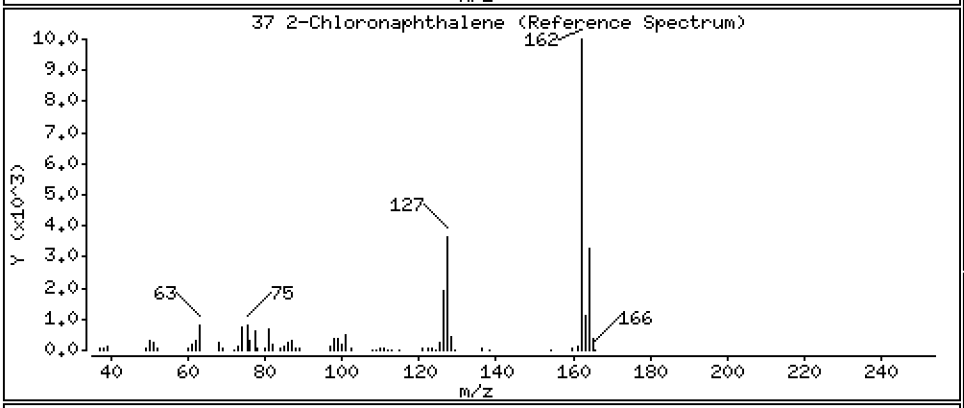
Column diameter: 0.25

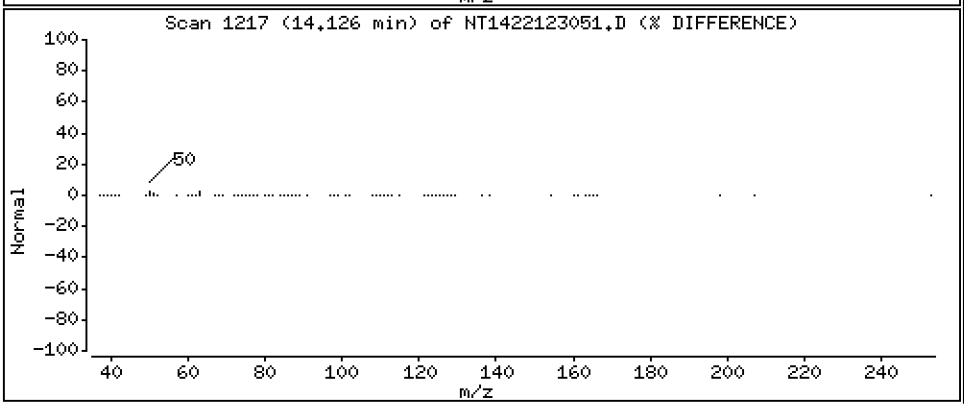
37 2-Chloronaphthalene

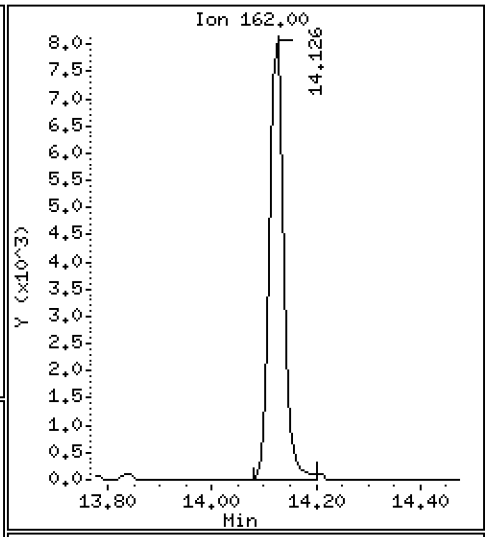
Concentration: 0.2372 ug/mL

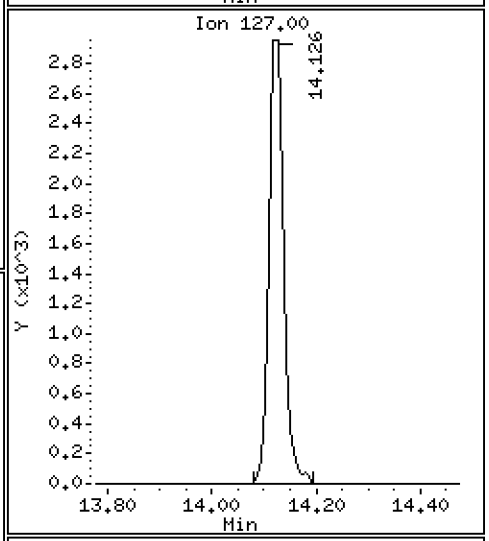


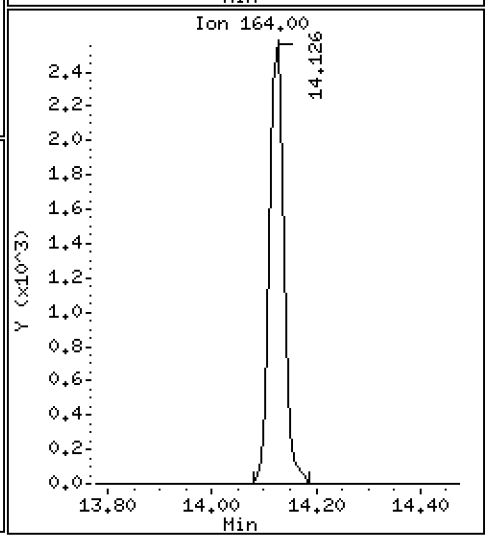












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

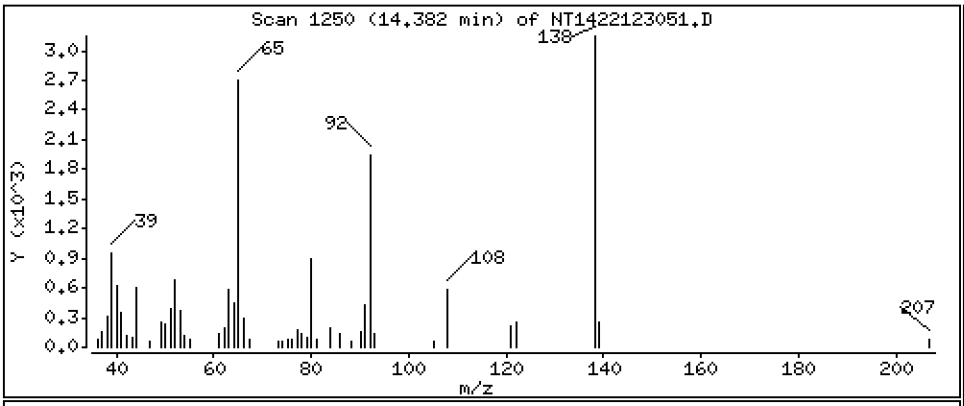
Operator: VTS

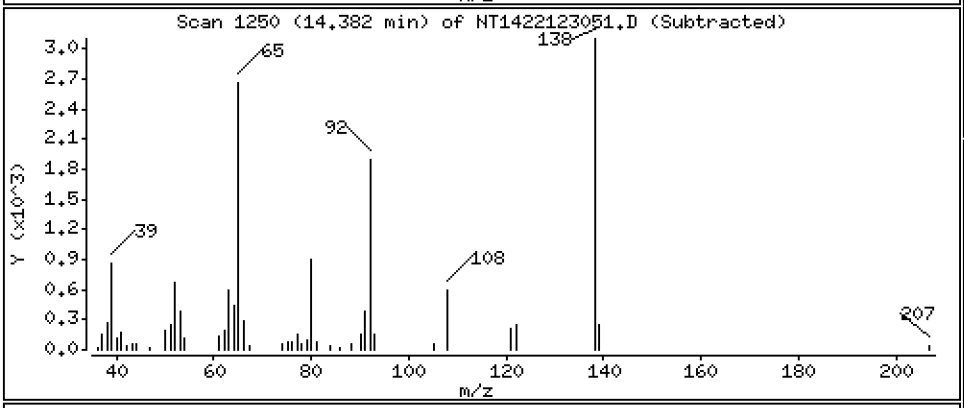
Column phase: ZB-5msi

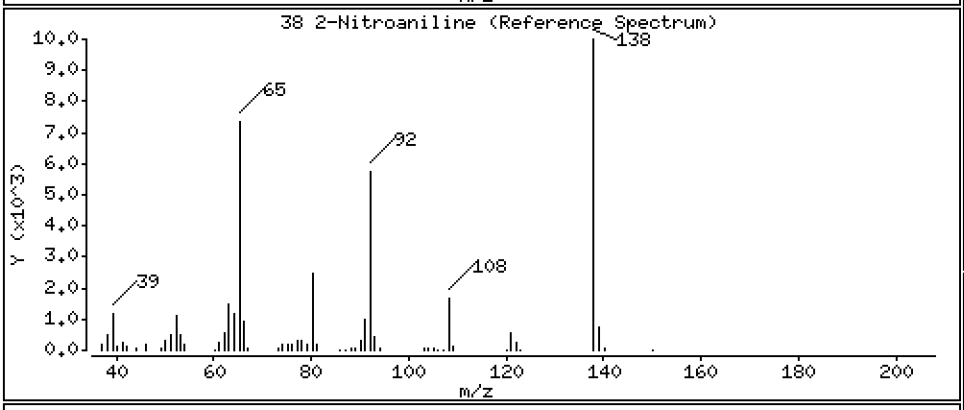
Column diameter: 0.25

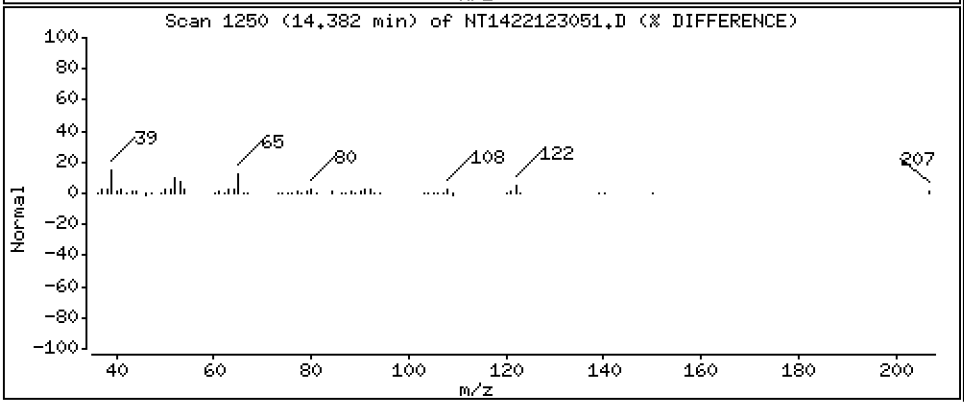
38 2-Nitroaniline

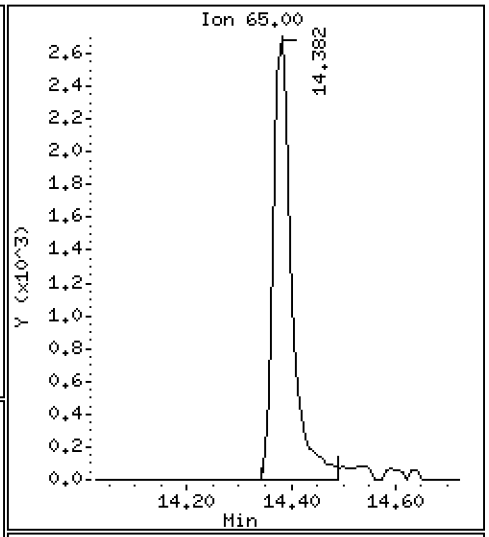
Concentration: 0.3972 ug/mL

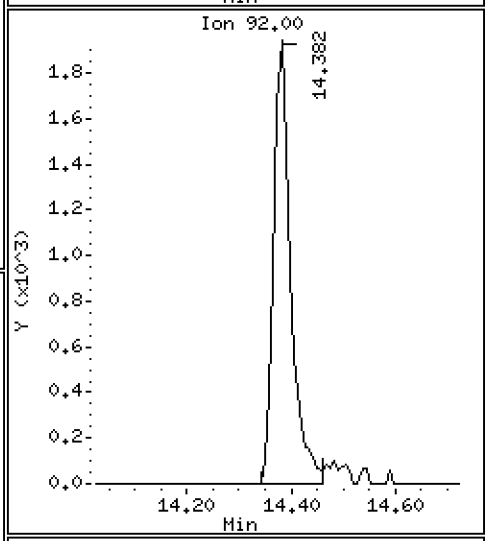


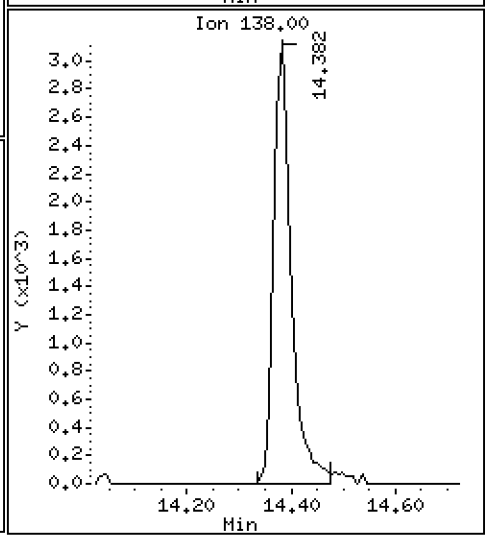












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

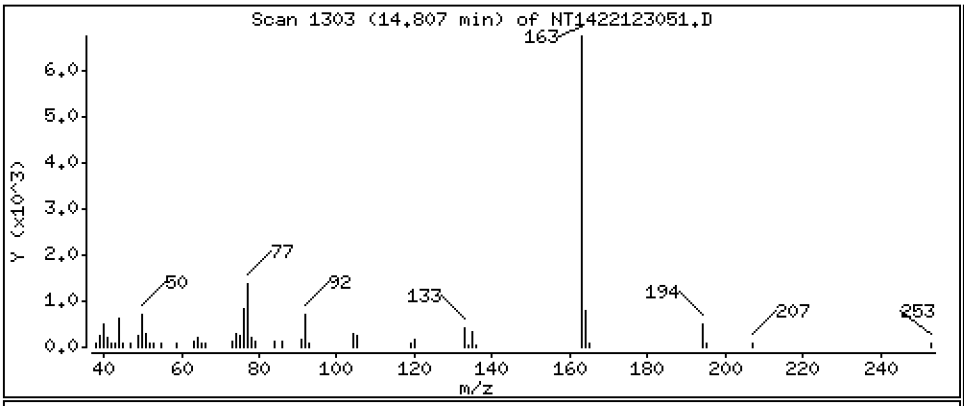
Operator: VTS

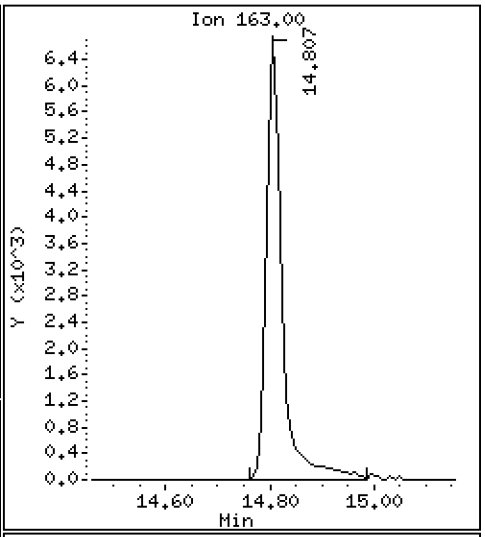
Column phase: ZB-5msi

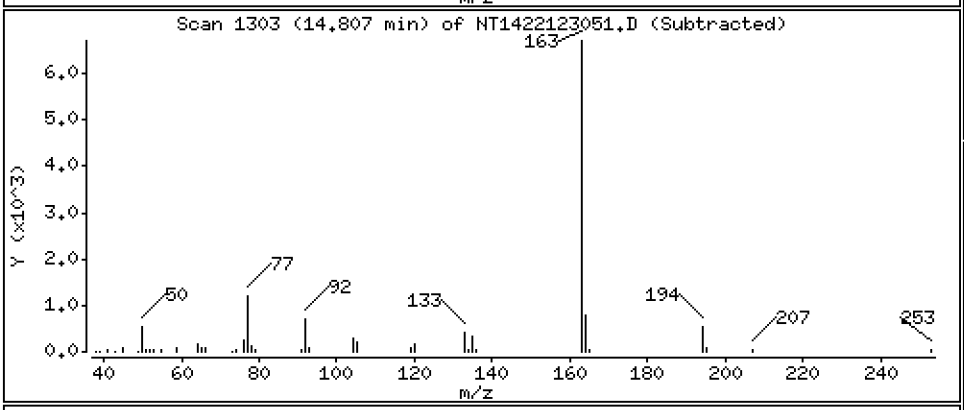
Column diameter: 0.25

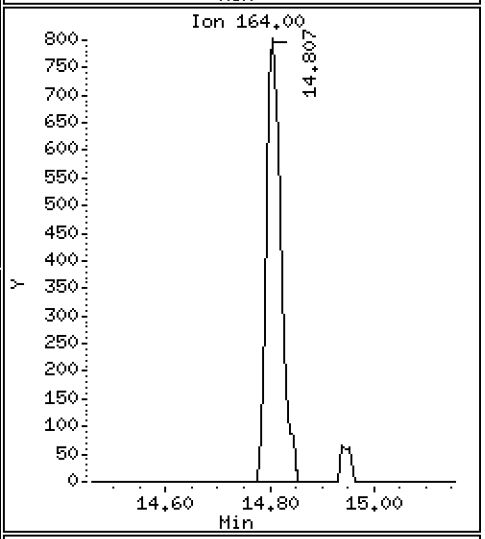
39 Dimethylphthalate

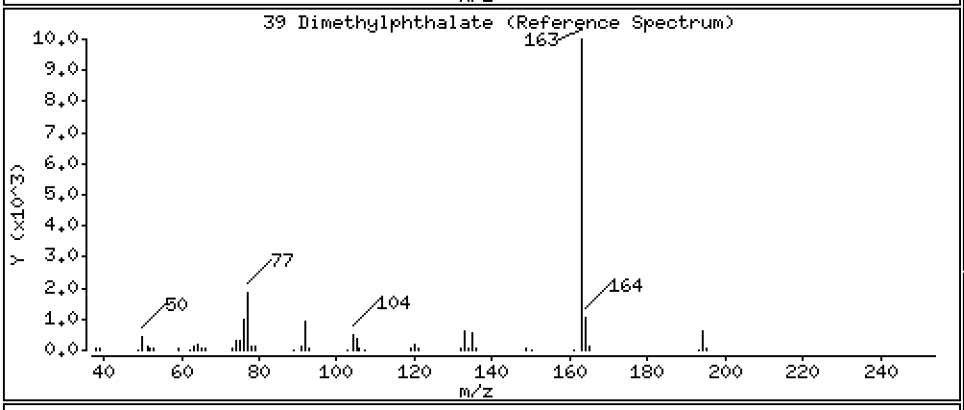
Concentration: 0.2231 ug/mL

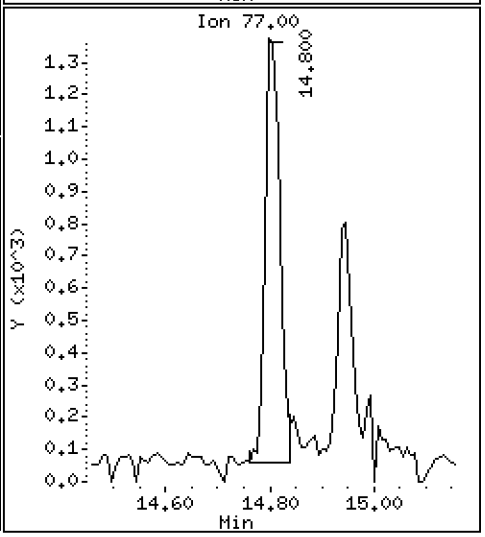


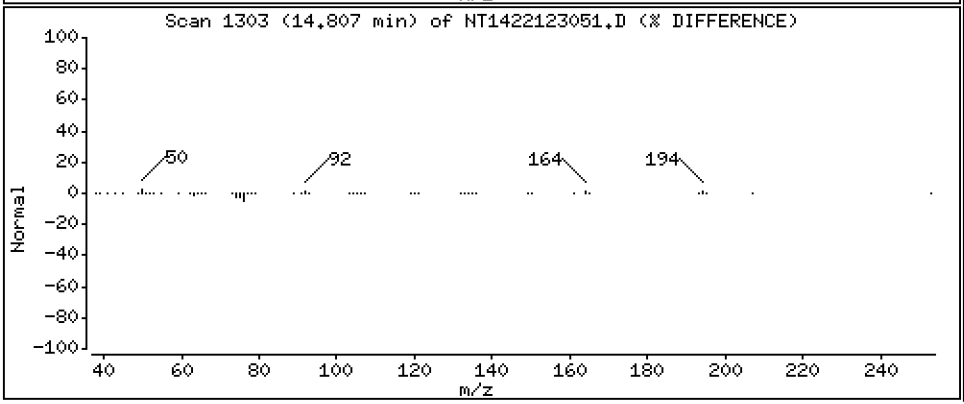












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

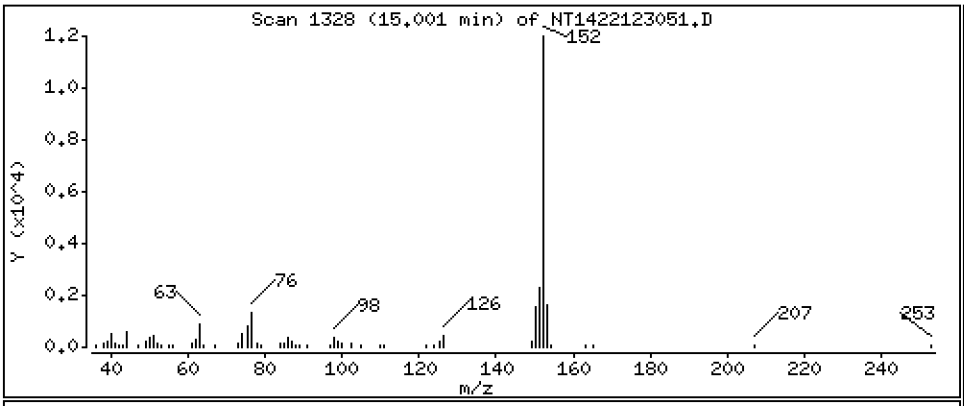
Operator: VTS

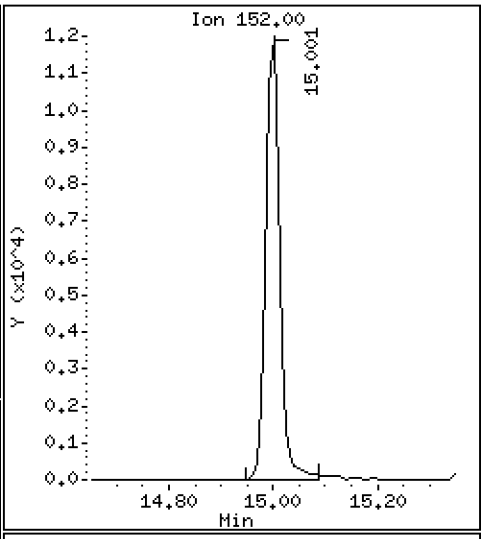
Column phase: ZB-5msi

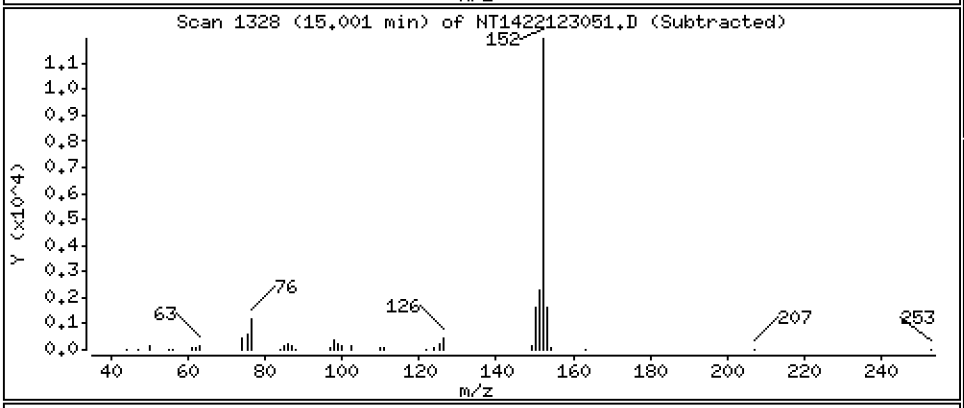
Column diameter: 0.25

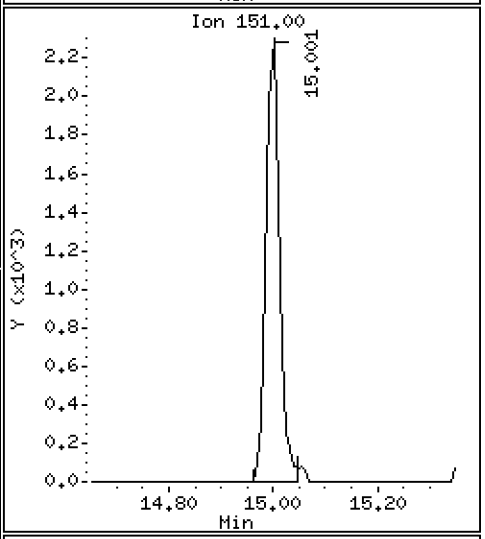
40 Acenaphthylene

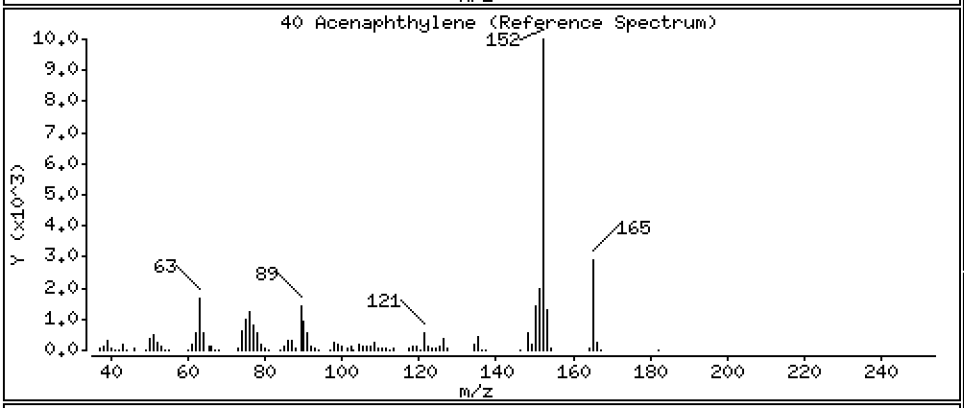
Concentration: 0.2256 ug/mL

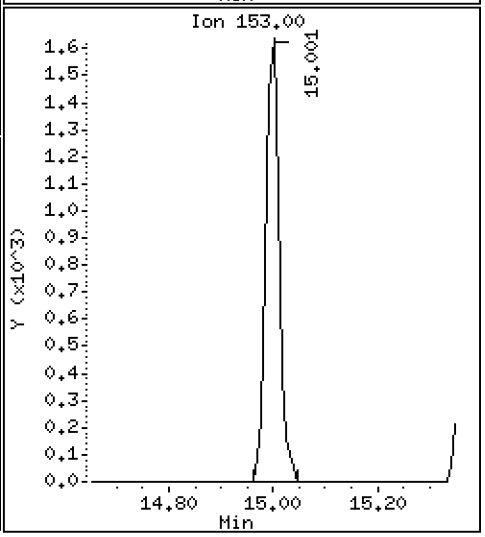


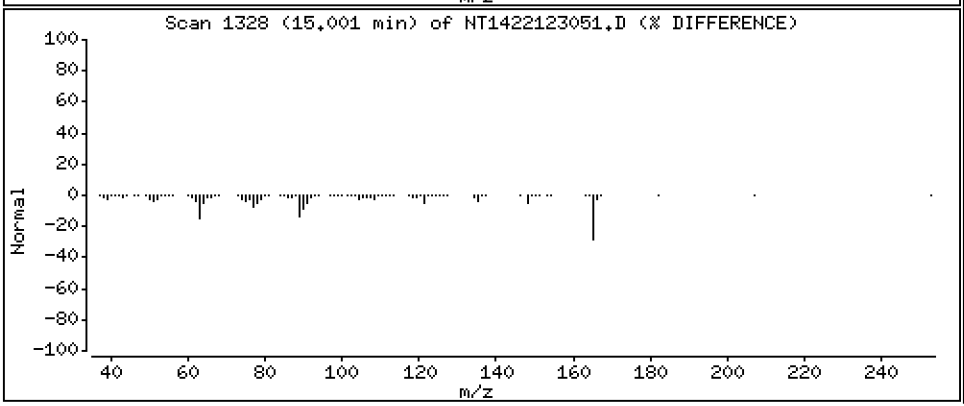












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

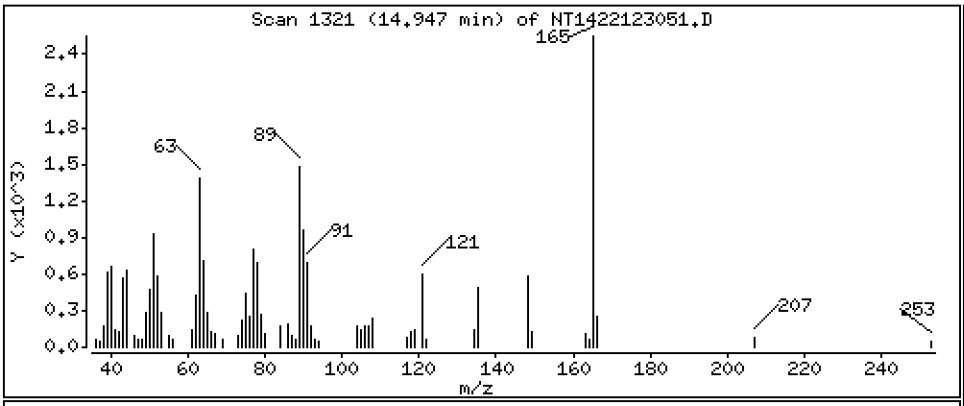
Operator: VTS

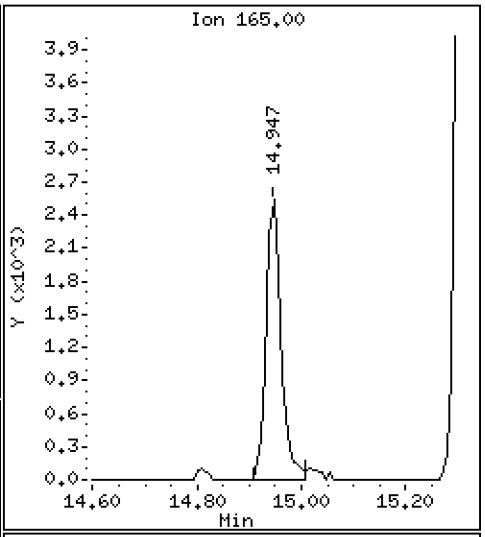
Column phase: ZB-5msi

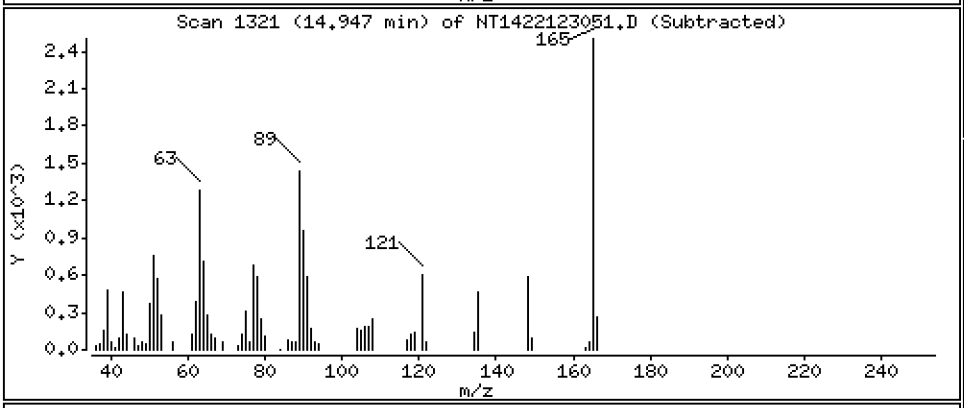
Column diameter: 0.25

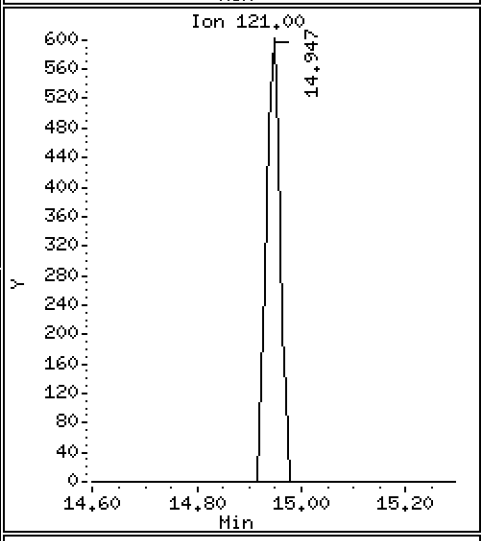
41 2,6-Dinitrotoluene

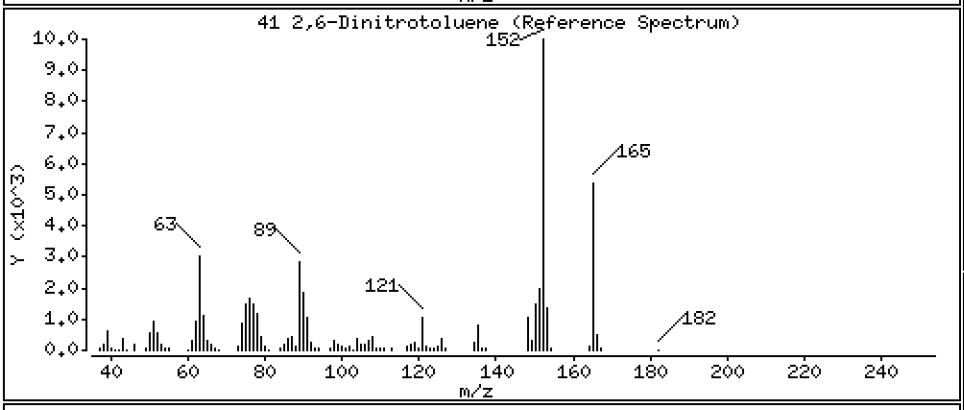
Concentration: 0.3515 ug/mL

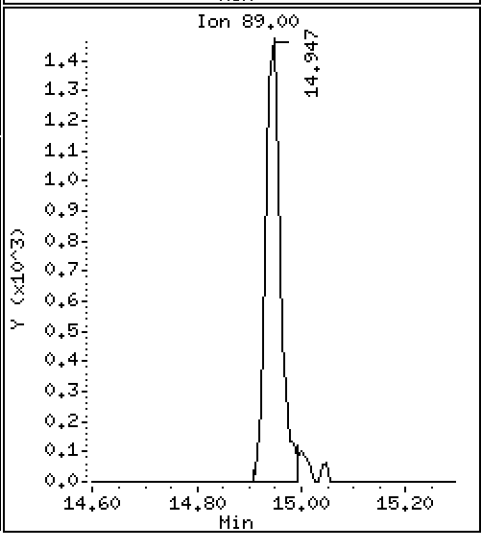


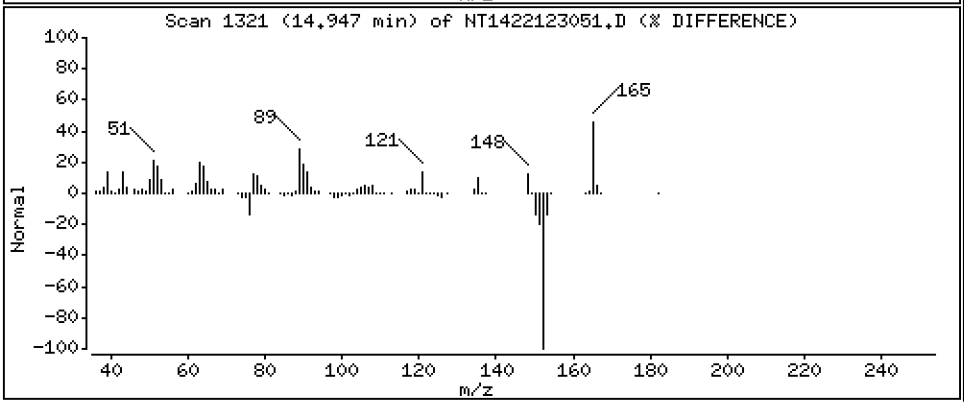












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

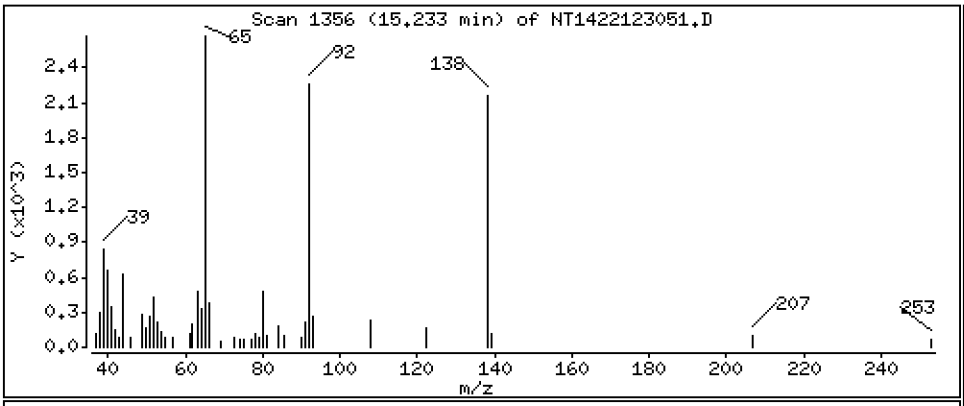
Operator: VTS

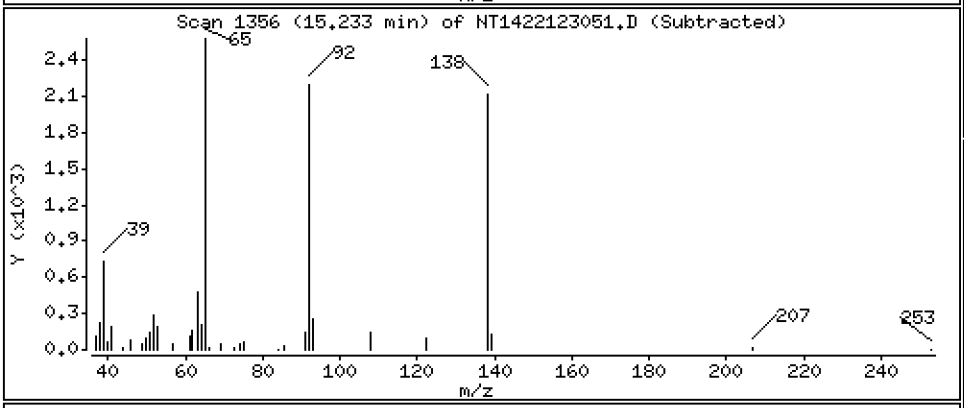
Column phase: ZB-5msi

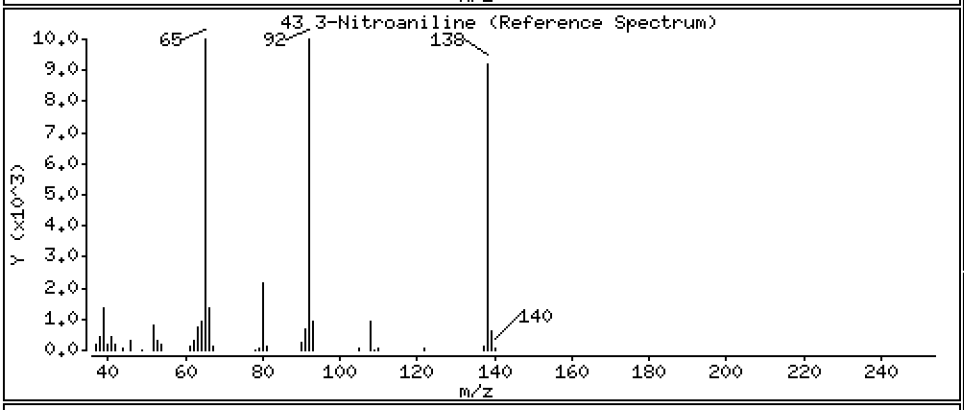
Column diameter: 0.25

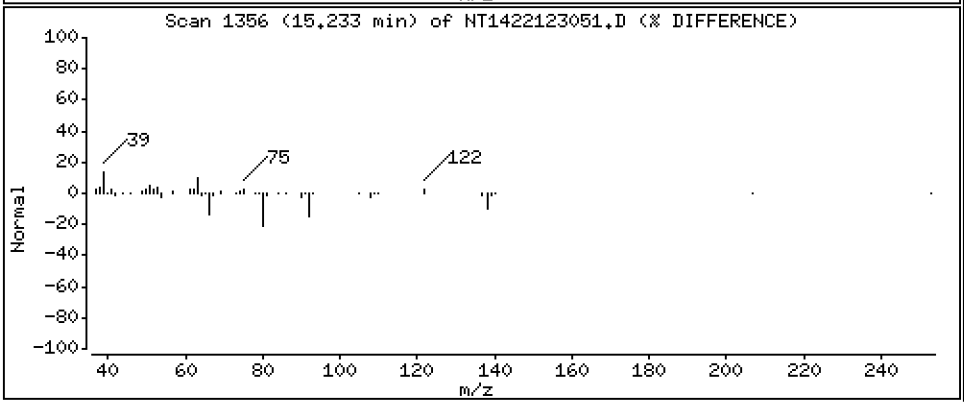
43 3-Nitroaniline

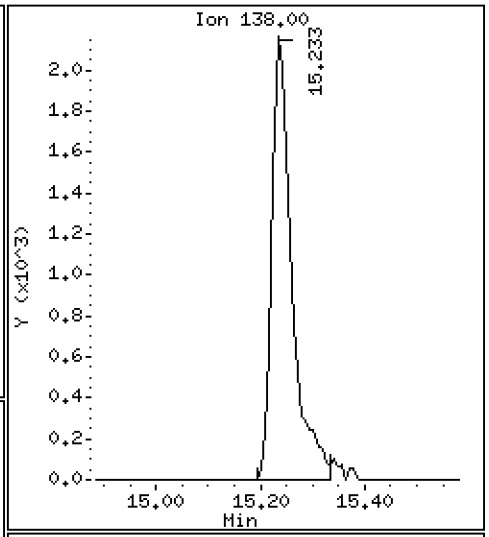
Concentration: 0.3370 ug/mL

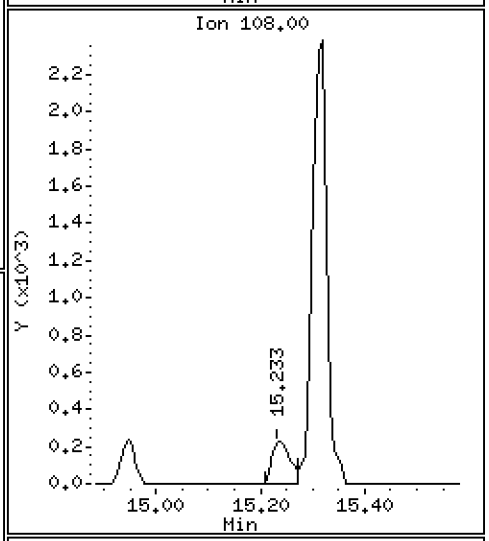


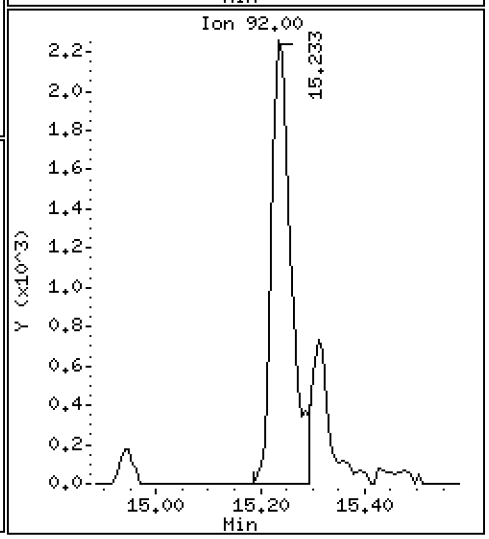












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

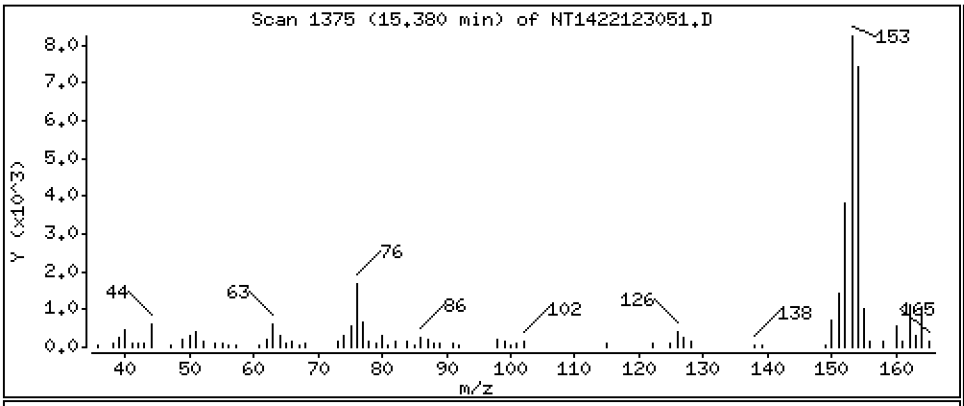
Operator: VTS

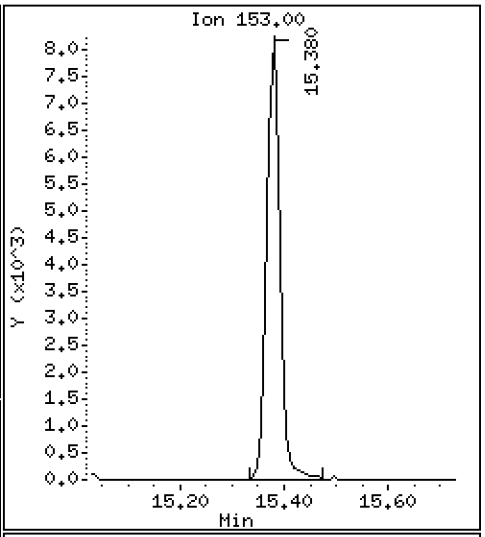
Column phase: ZB-5msi

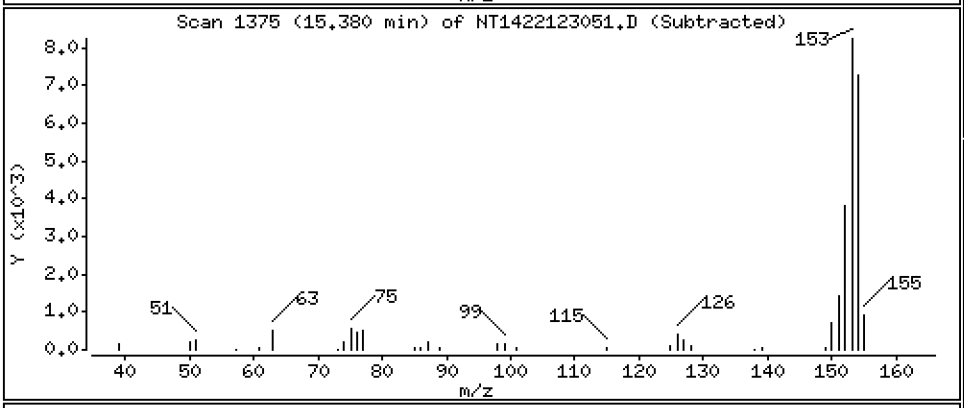
Column diameter: 0.25

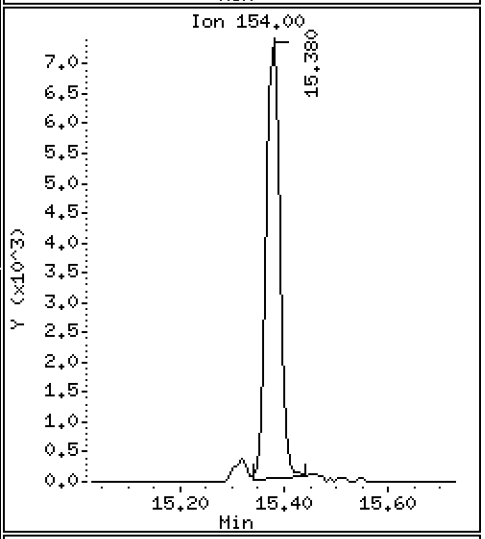
44 Acenaphthene

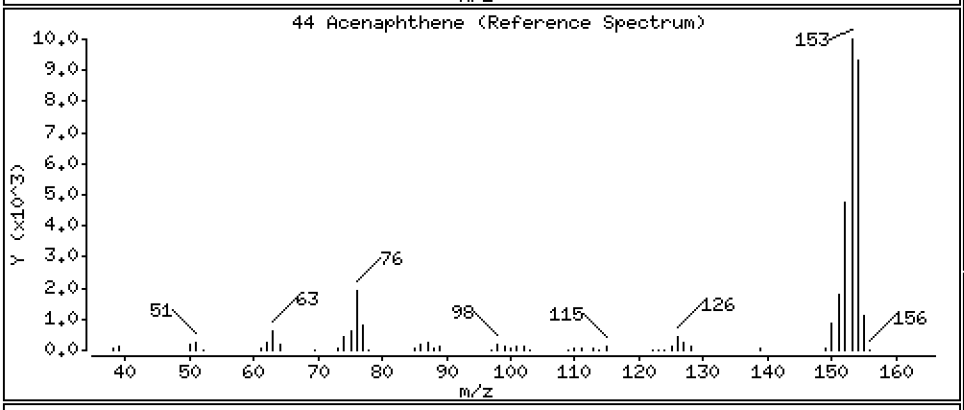
Concentration: 0.2351 ug/mL

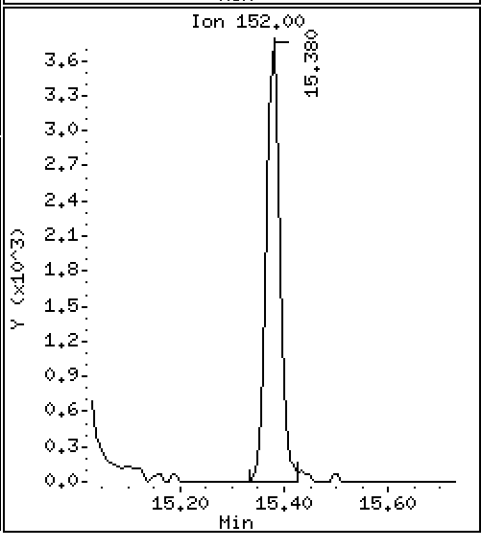


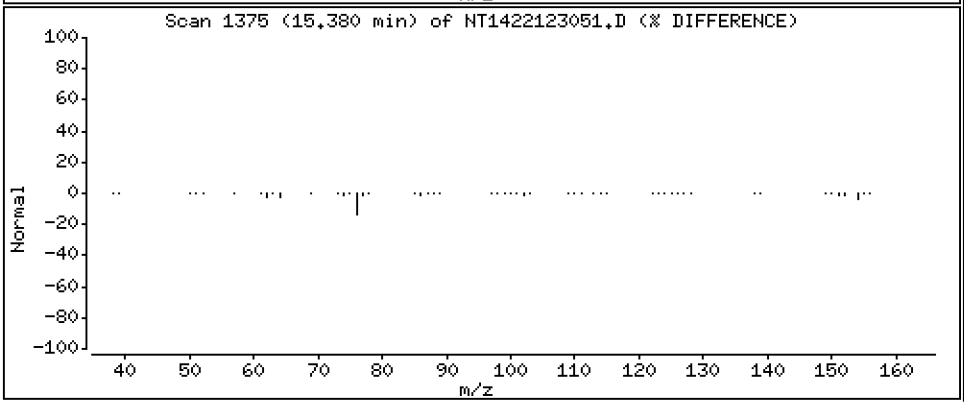












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

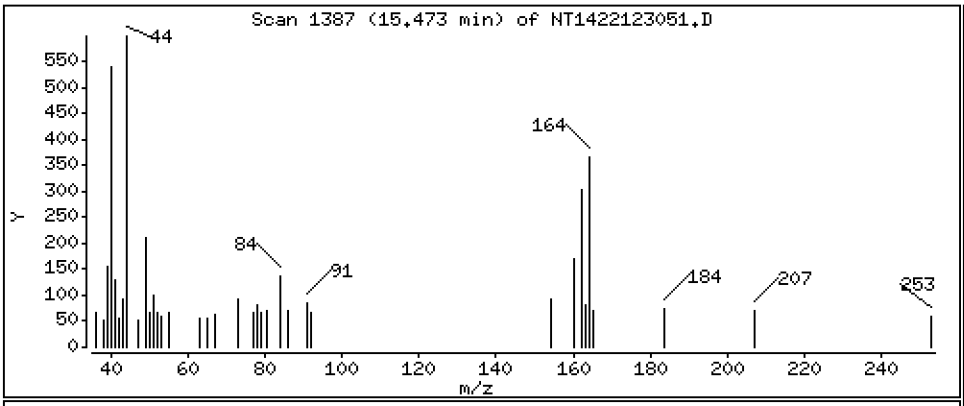
Operator: VTS

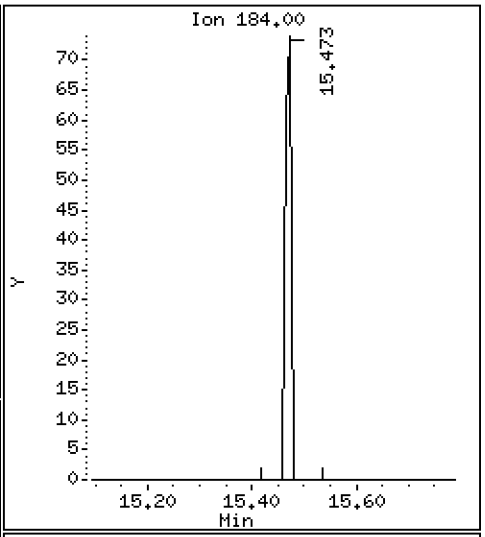
Column phase: ZB-5msi

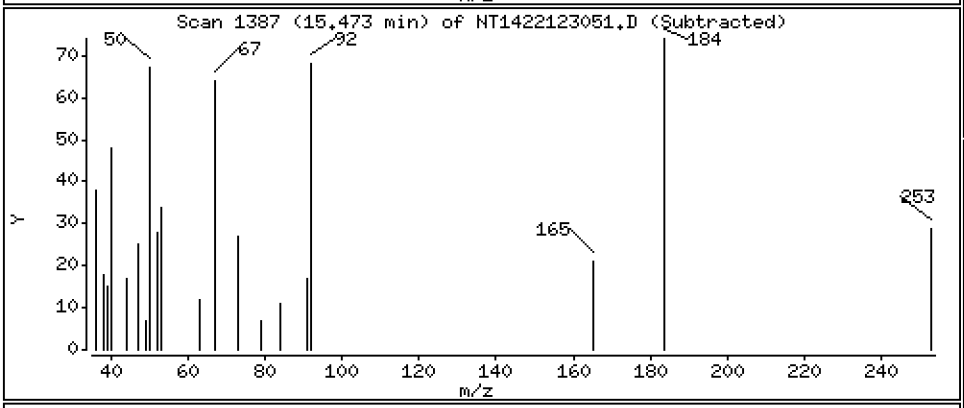
Column diameter: 0.25

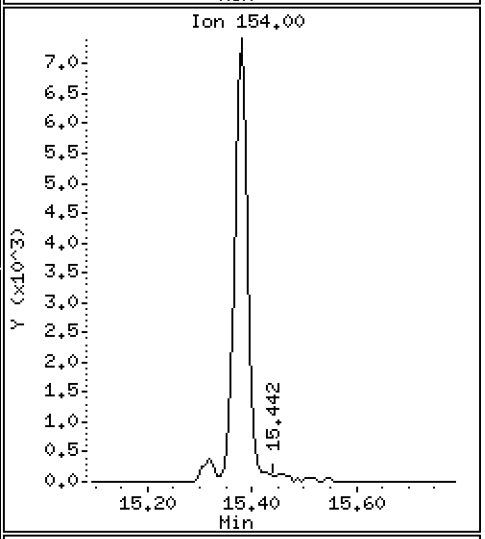
45 2,4-Dinitrophenol

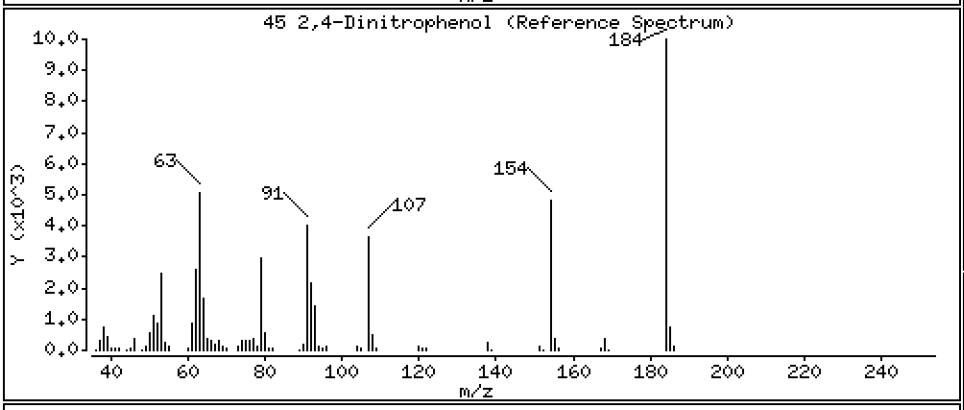
Concentration: 0.005296 ug/mL

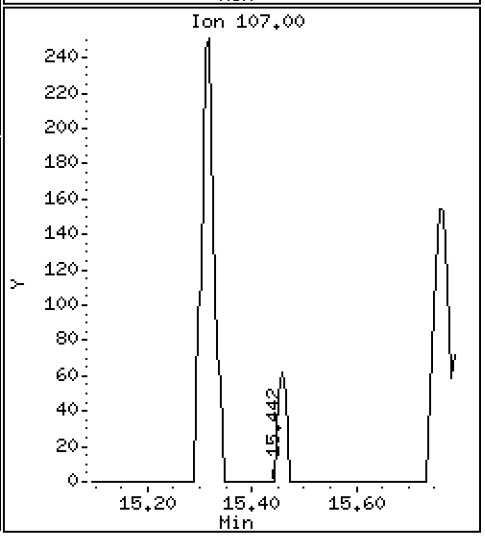


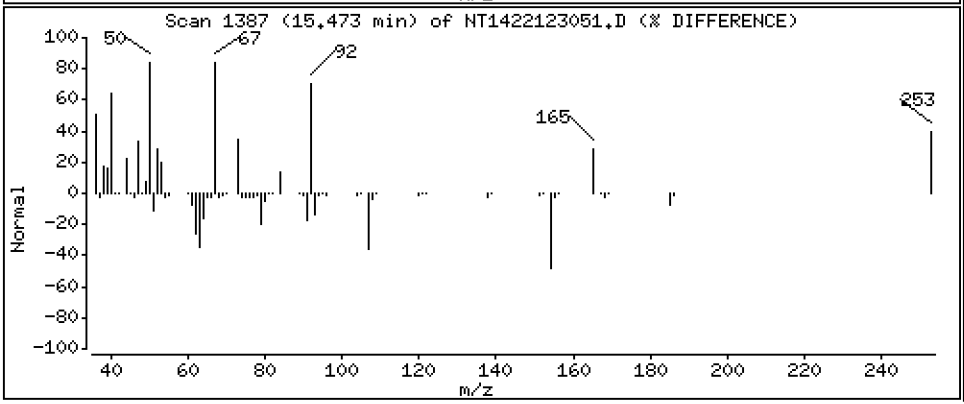












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

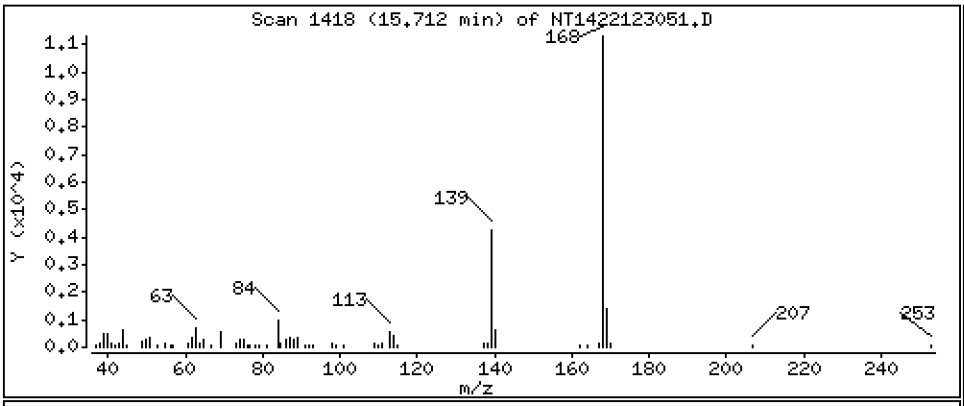
Operator: VTS

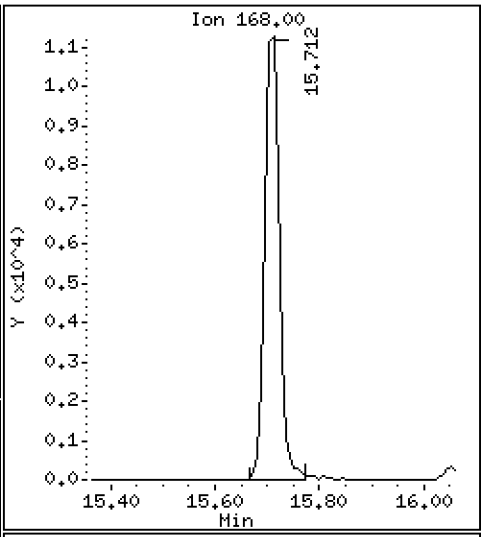
Column phase: ZB-5msi

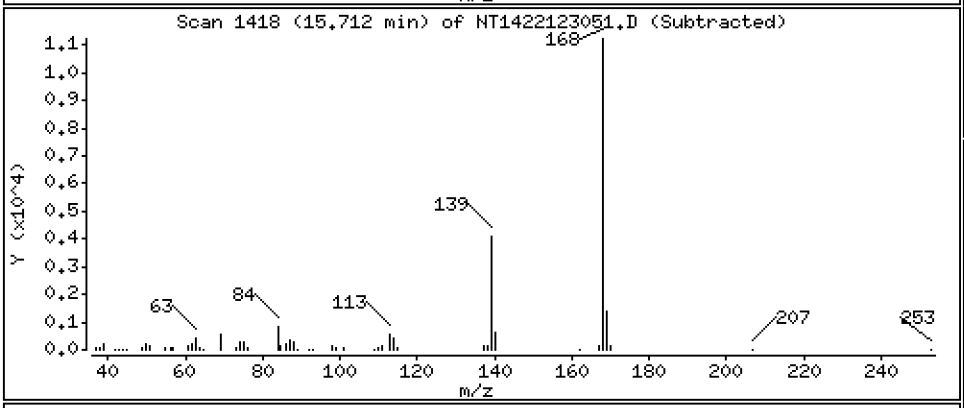
Column diameter: 0.25

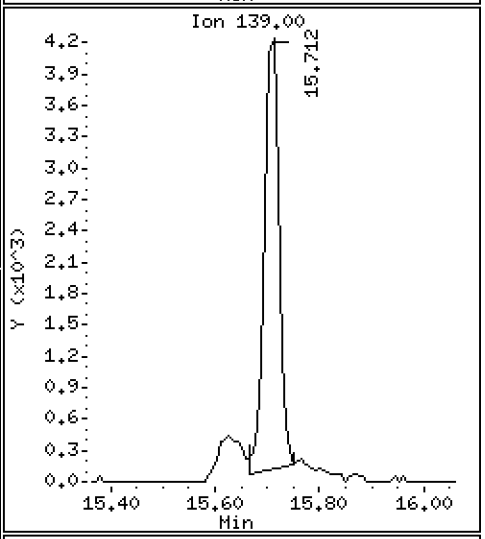
46 Dibenzofuran

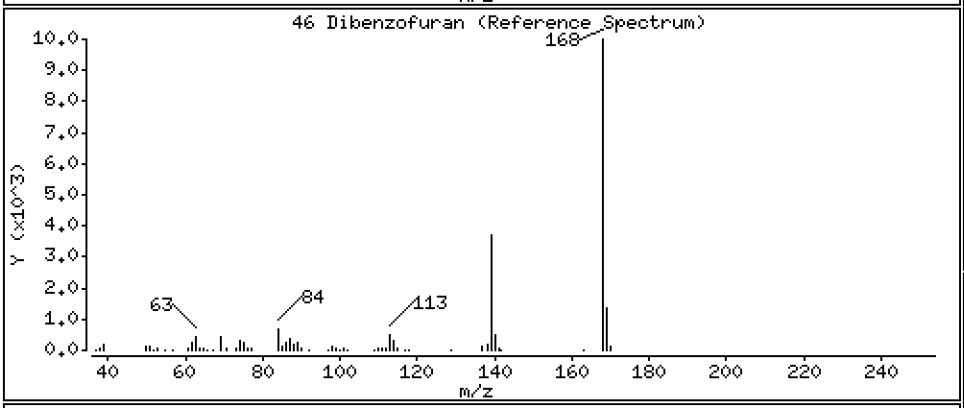
Concentration: 0.2405 ug/mL

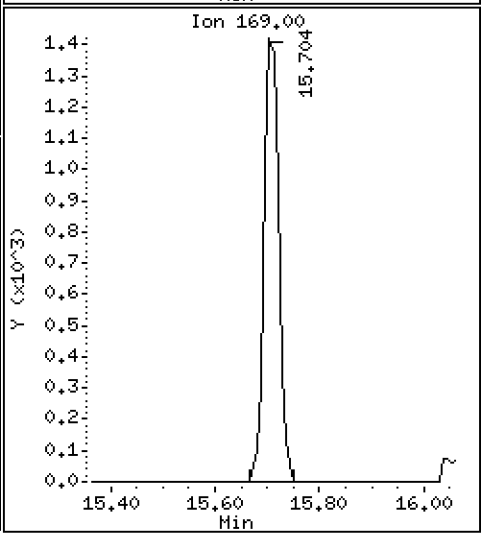


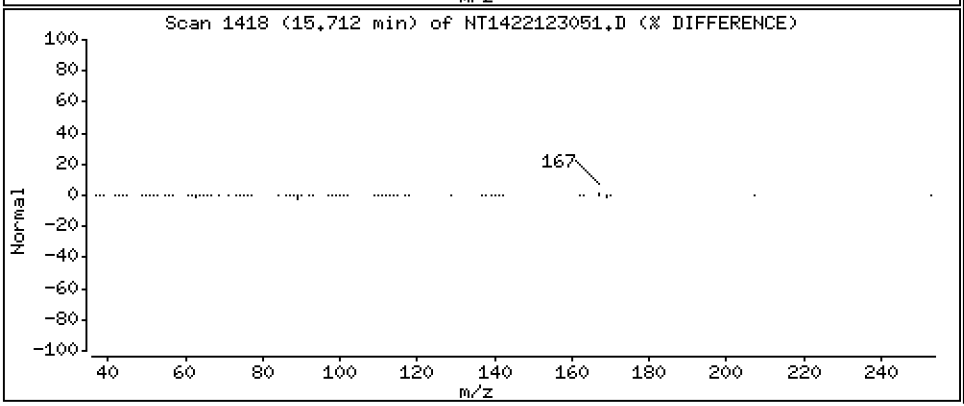












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

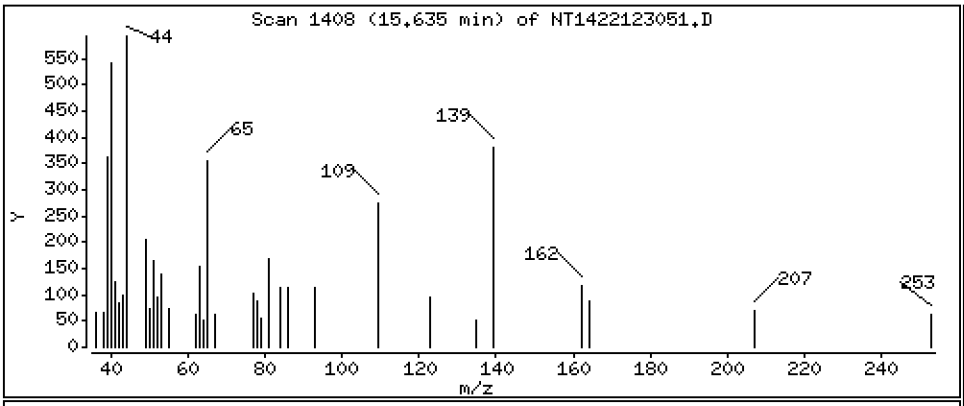
Operator: VTS

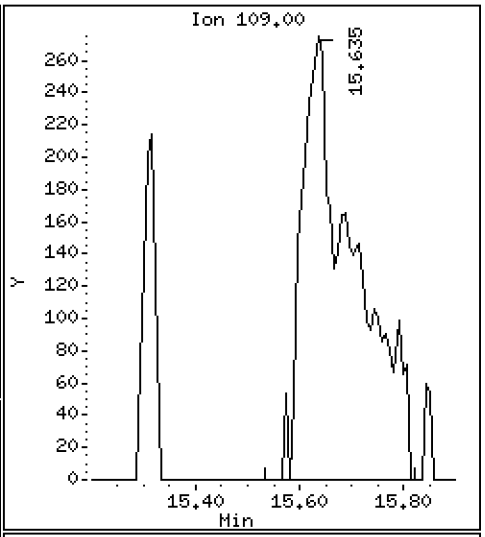
Column phase: ZB-5msi

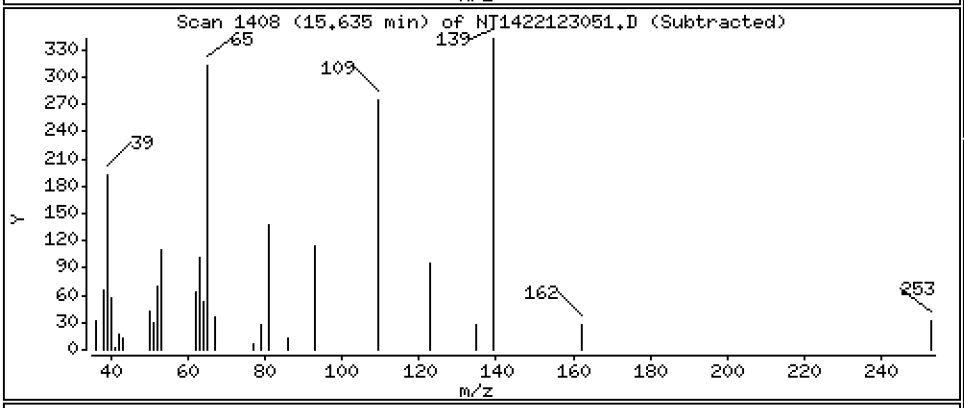
Column diameter: 0.25

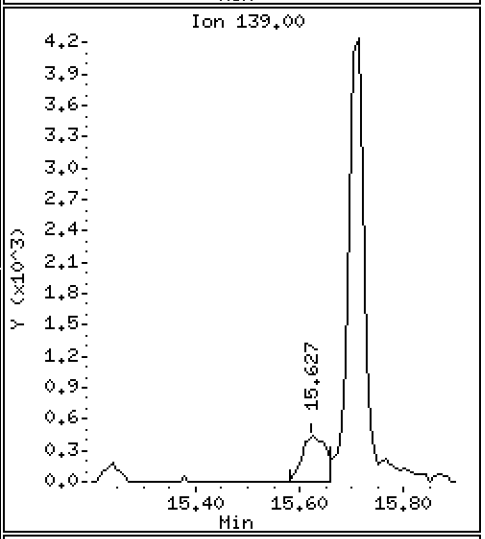
47 4-Nitrophenol

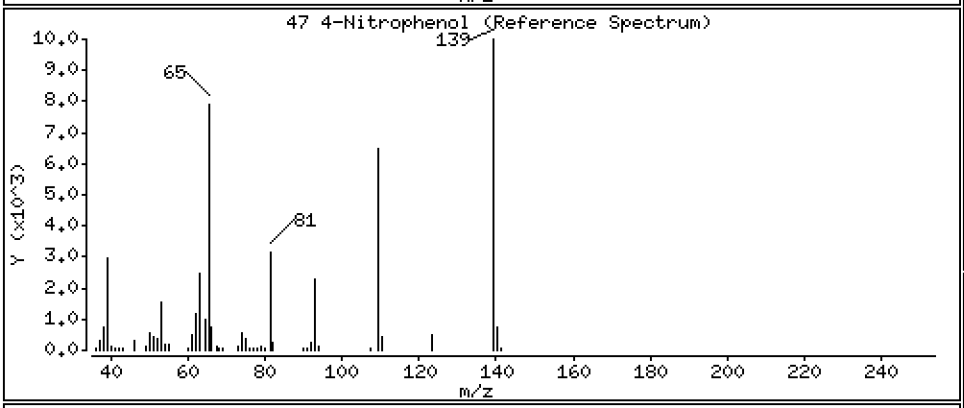
Concentration: 0.2375 ug/mL

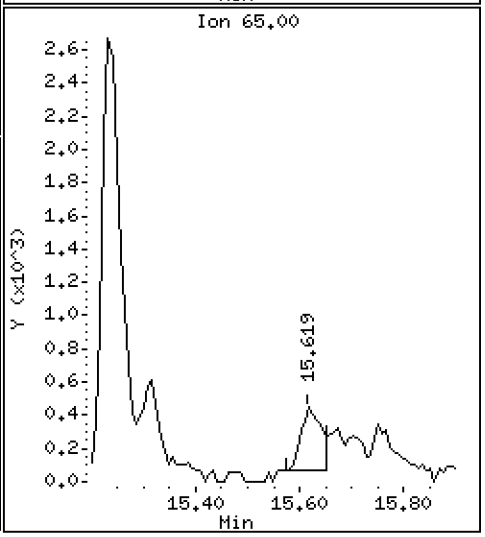


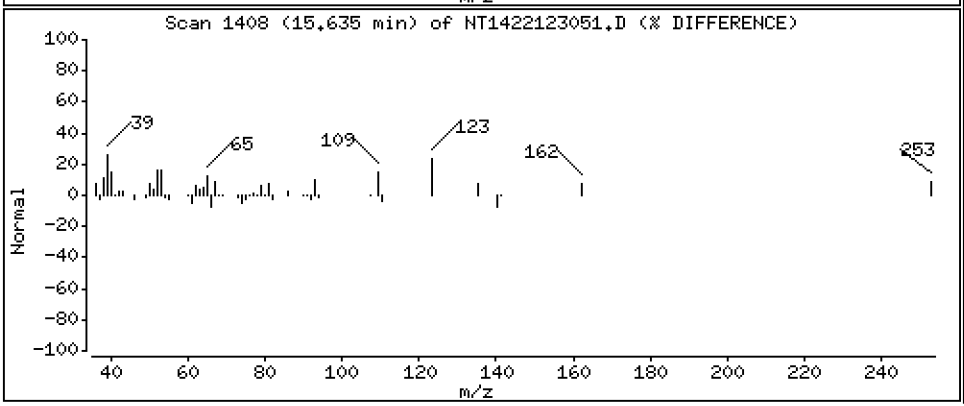












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

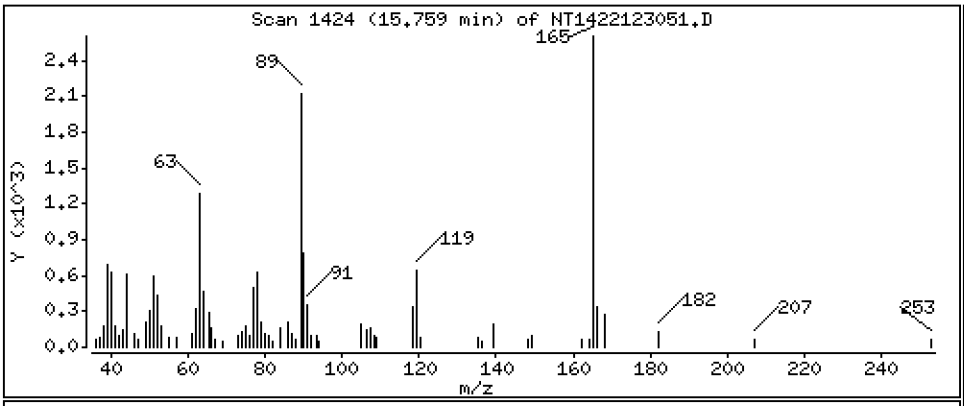
Operator: VTS

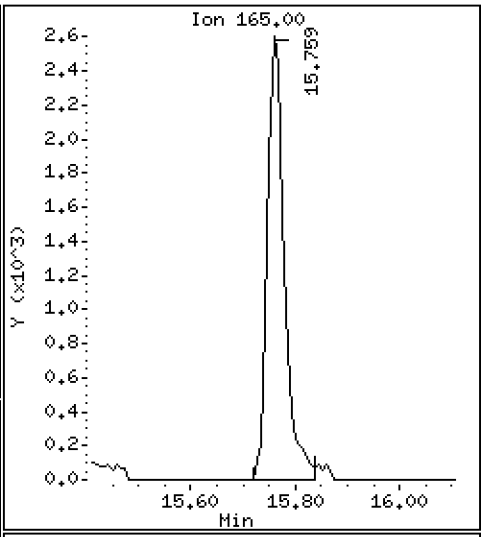
Column phase: ZB-5msi

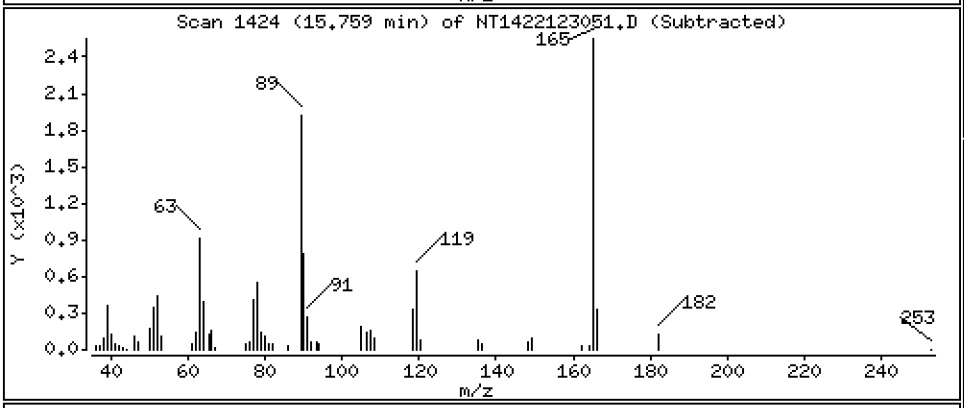
Column diameter: 0.25

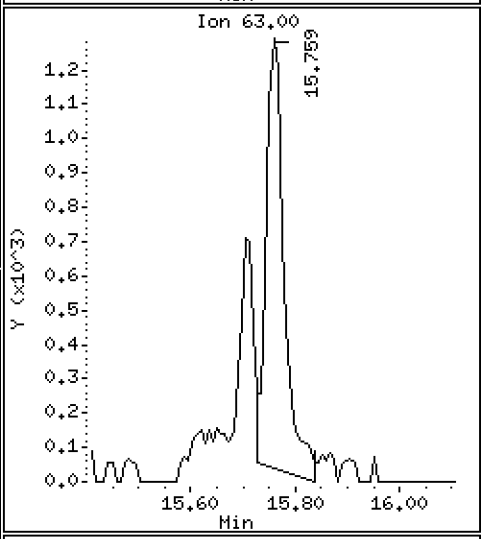
48 2,4-Dinitrotoluene

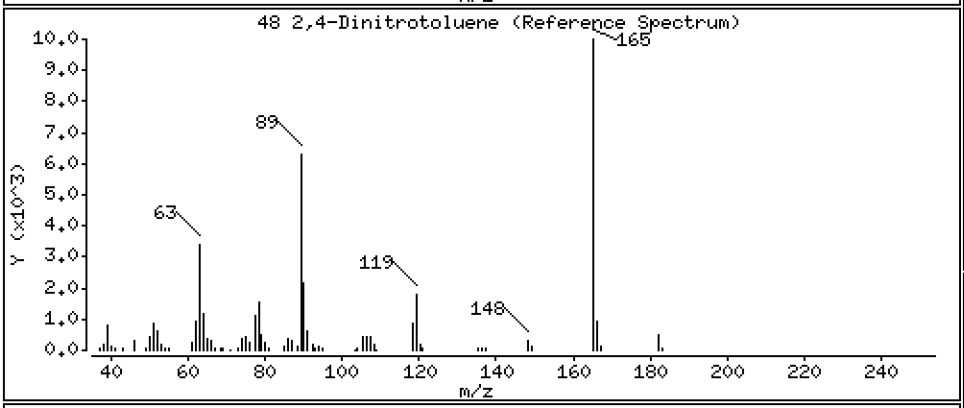
Concentration: 0.3020 ug/mL

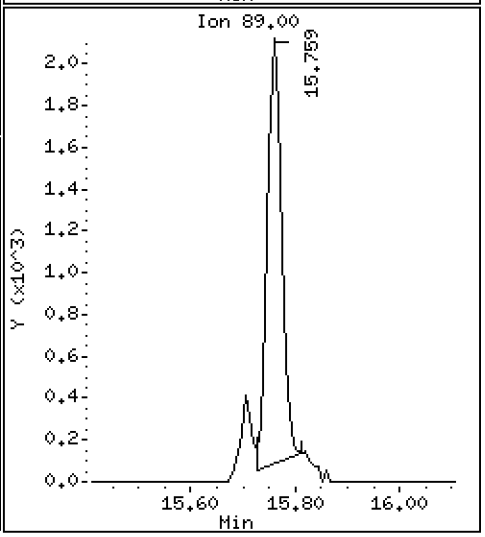


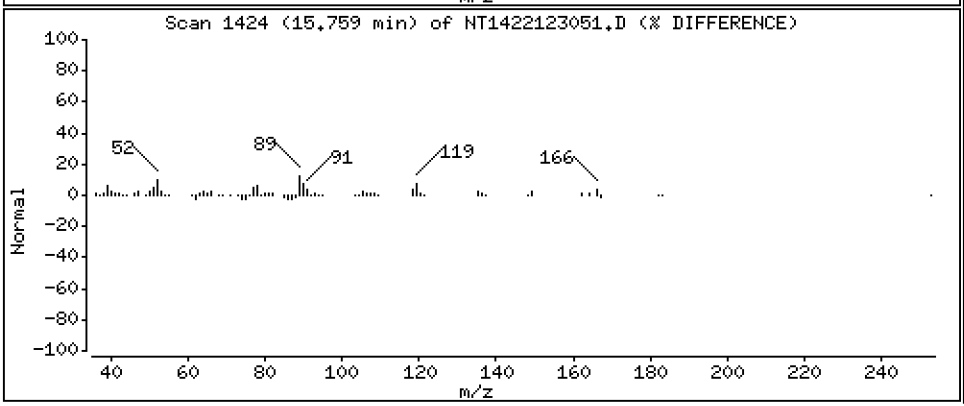












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

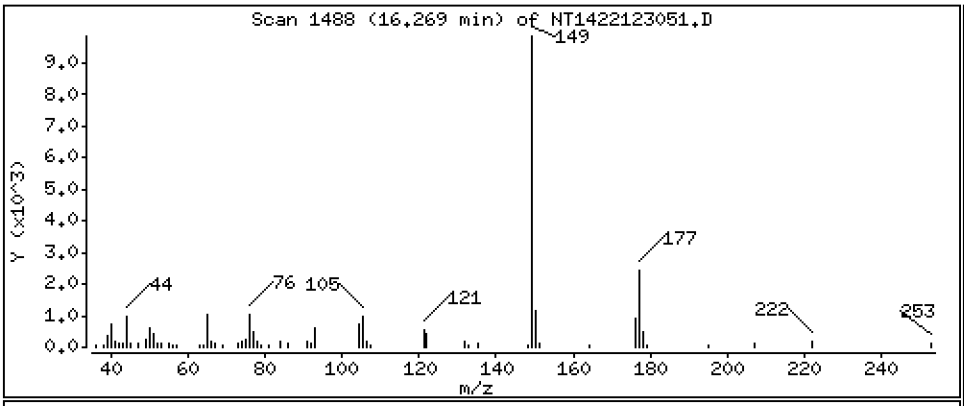
Operator: VTS

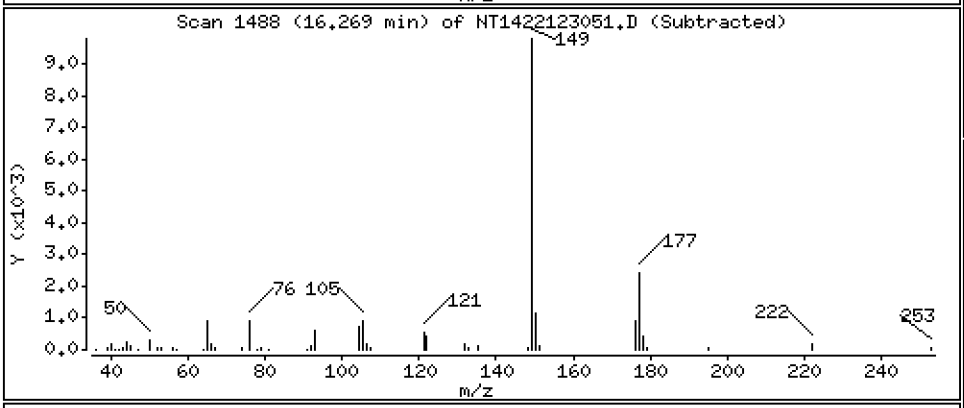
Column phase: ZB-5msi

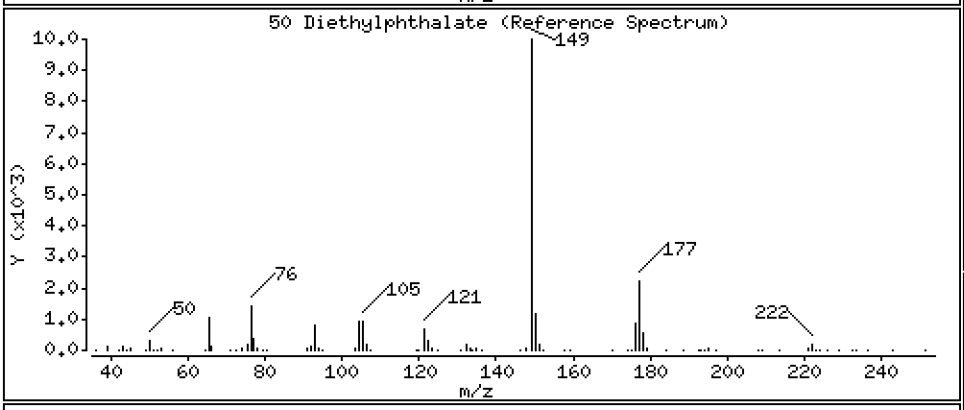
Column diameter: 0.25

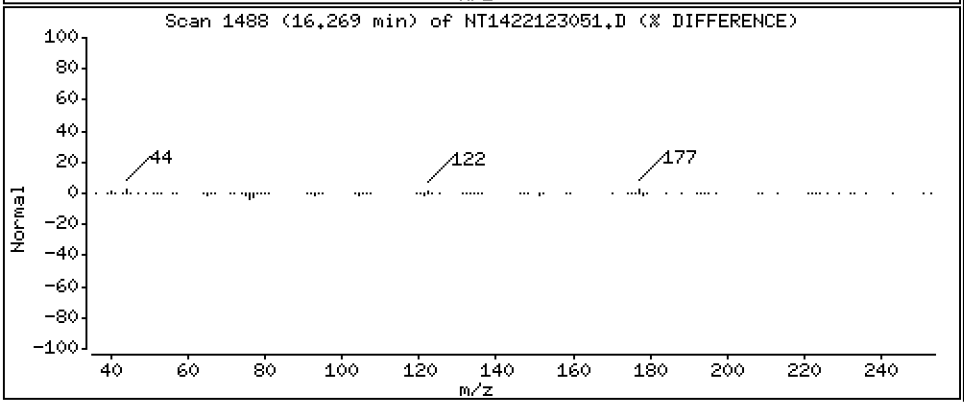
50 Diethylphthalate

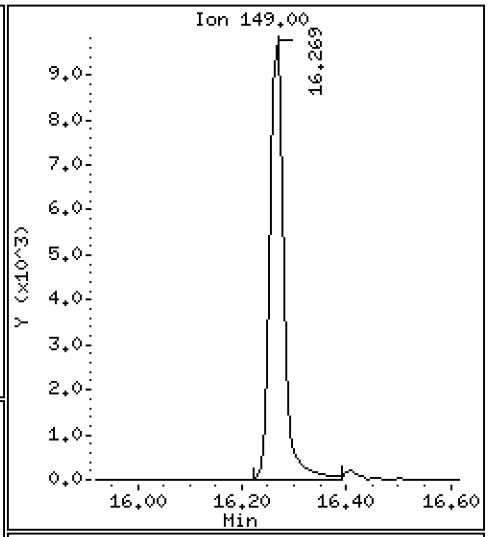
Concentration: 0.2277 ug/mL

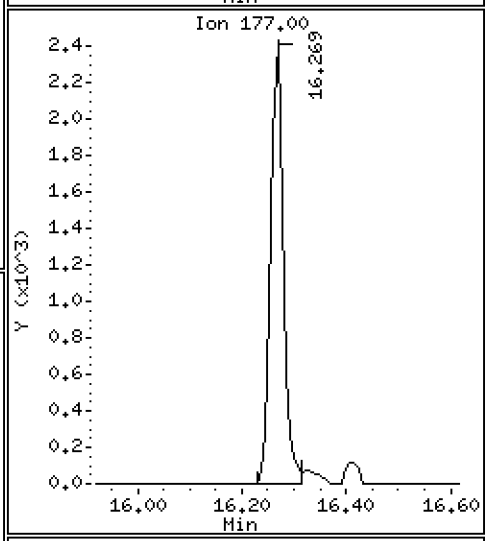


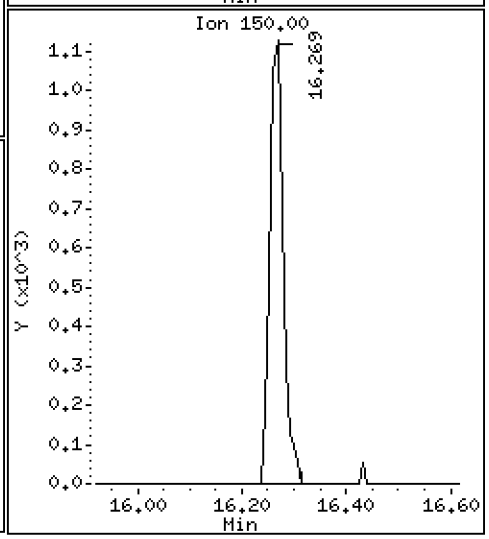












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

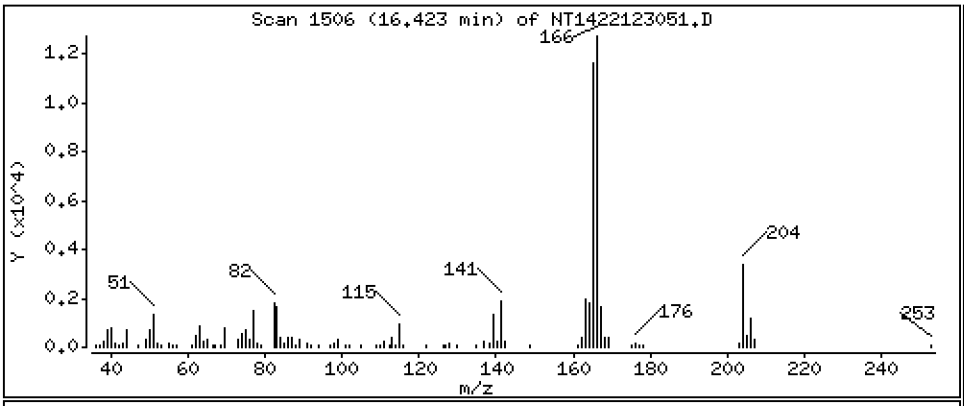
Operator: VTS

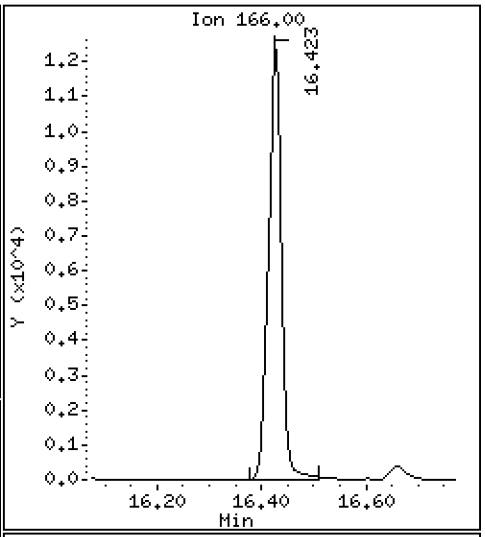
Column phase: ZB-5msi

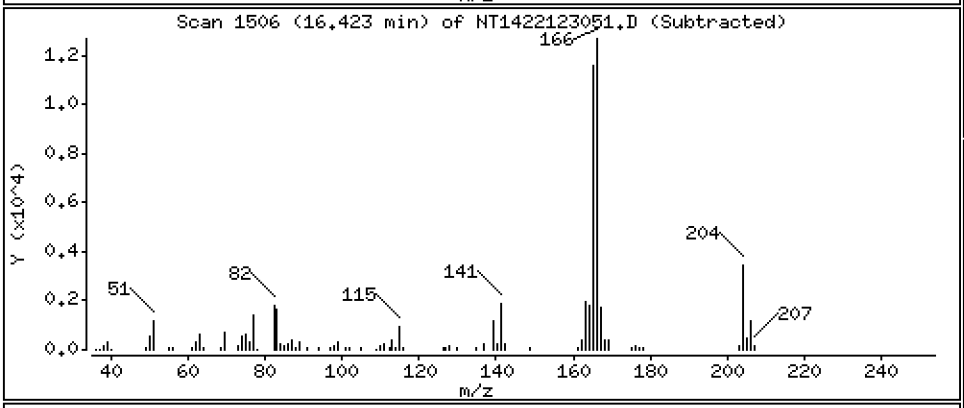
Column diameter: 0.25

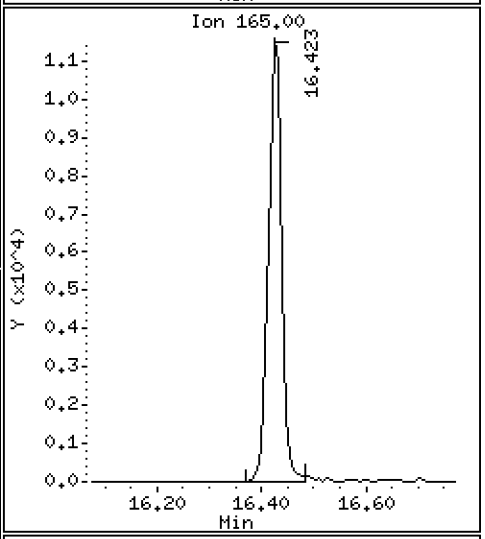
49 Fluorene

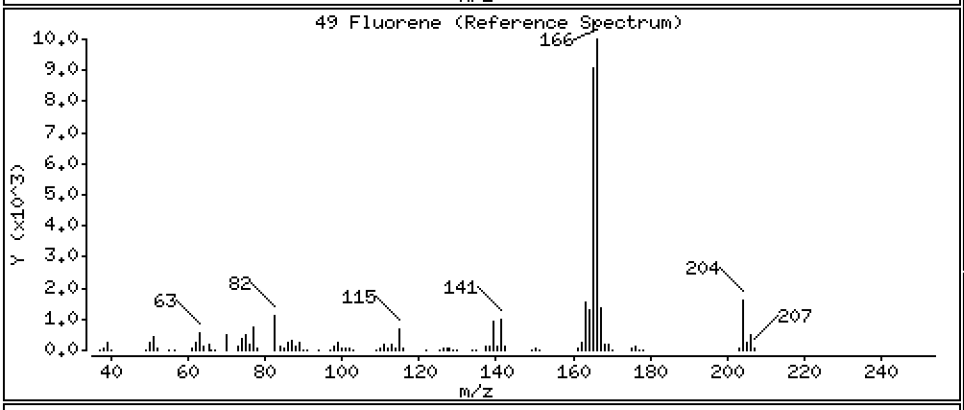
Concentration: 0.2274 ug/mL

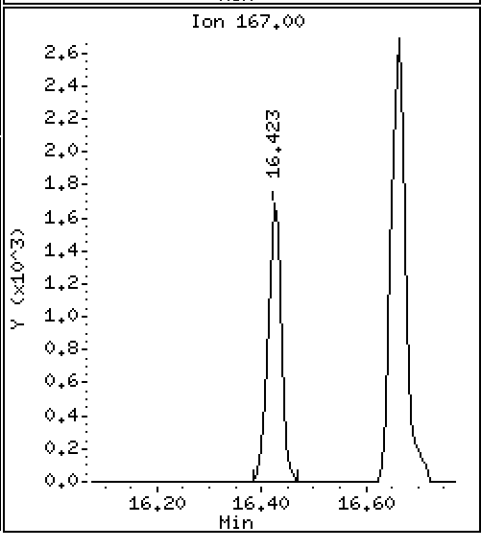


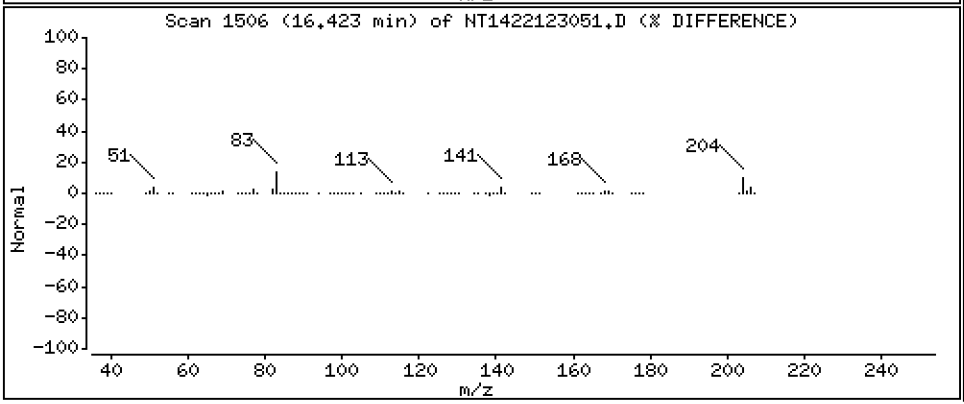












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

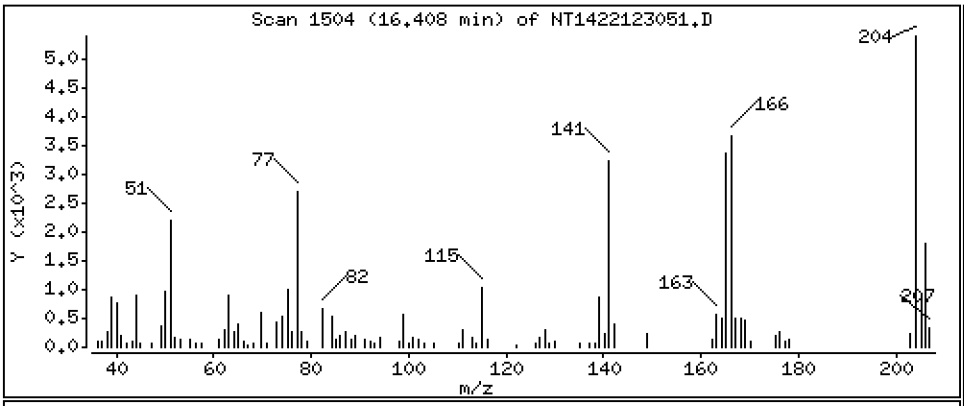
Operator: VTS

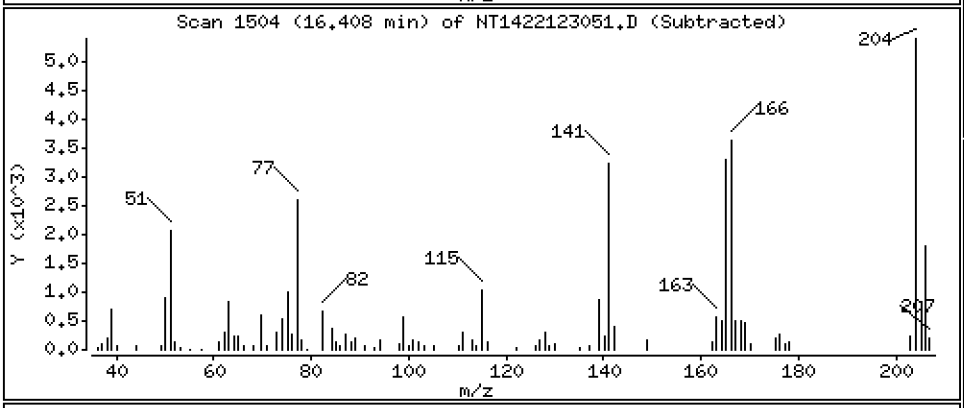
Column phase: ZB-5msi

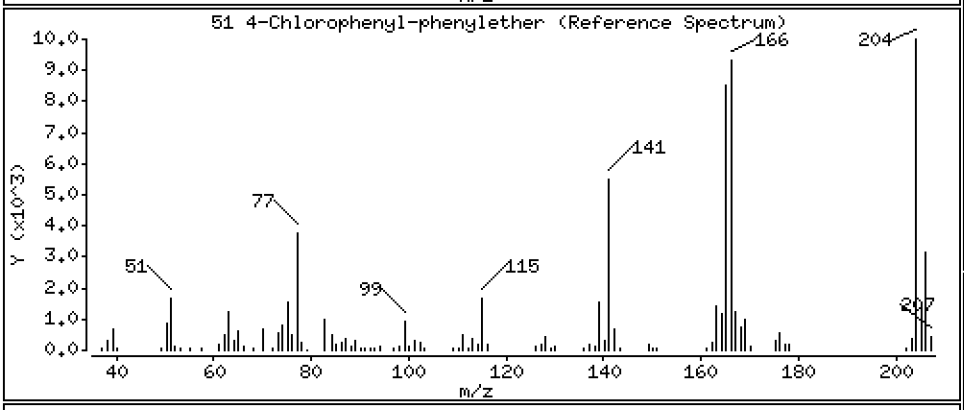
Column diameter: 0.25

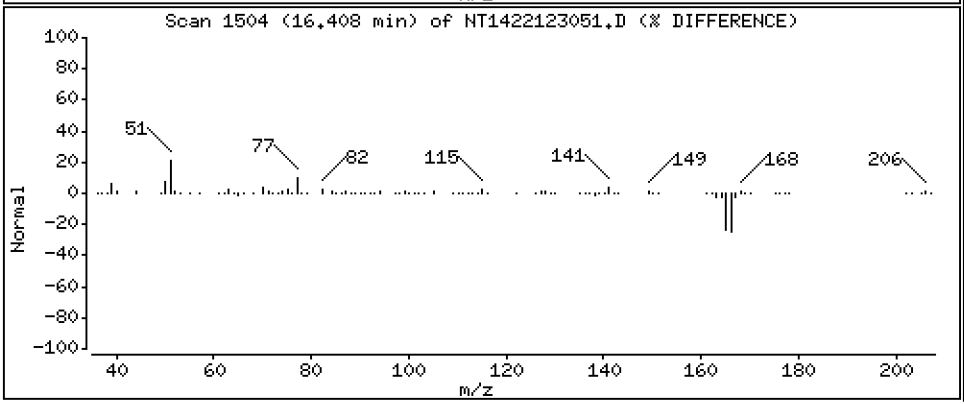
51 4-Chlorophenyl-phenylether

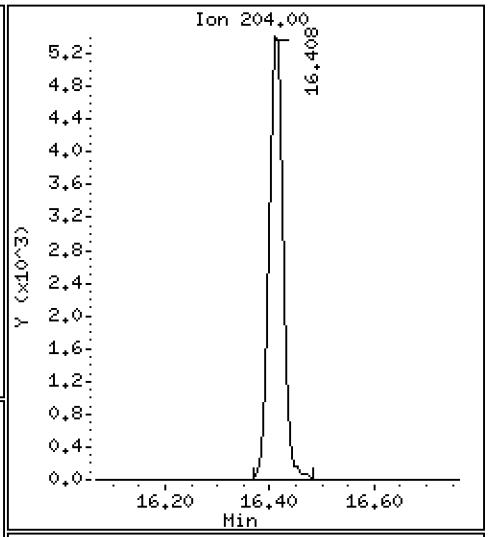
Concentration: 0.2138 ug/mL

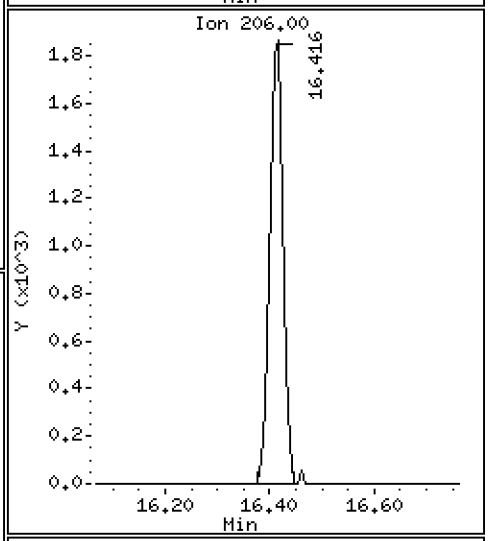


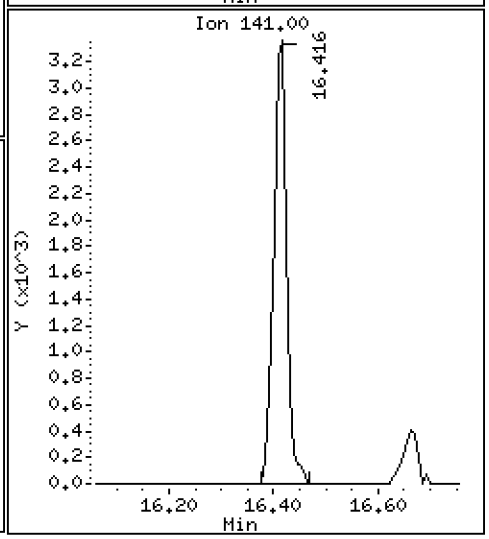












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

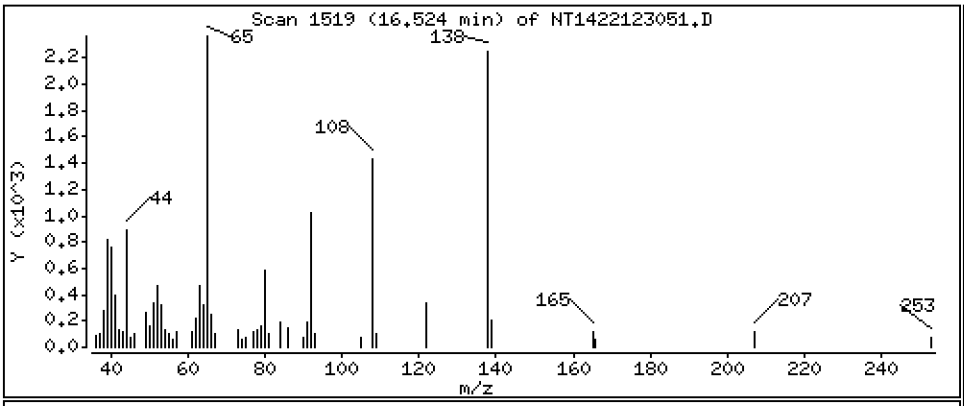
Operator: VTS

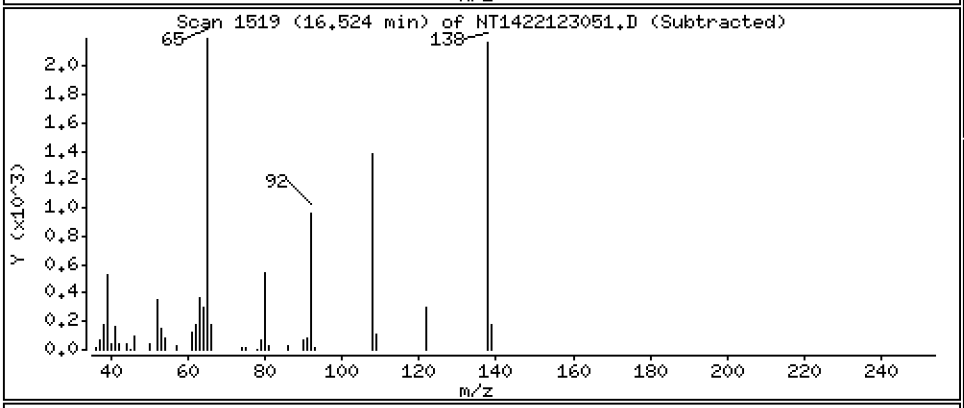
Column phase: ZB-5msi

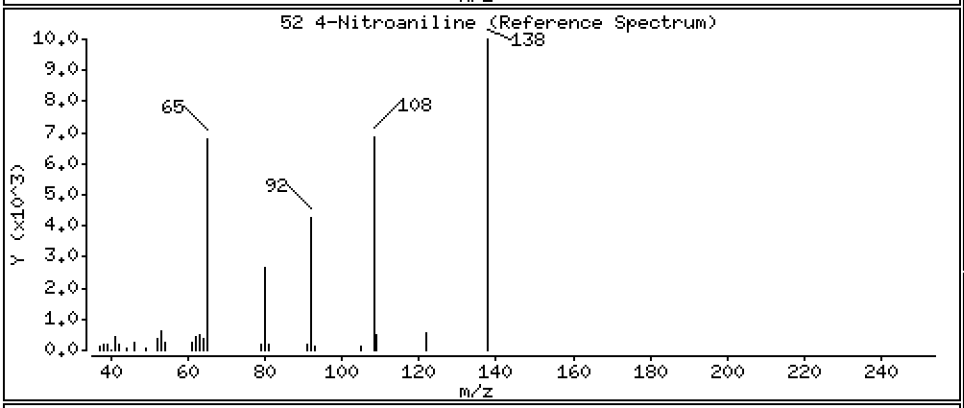
Column diameter: 0.25

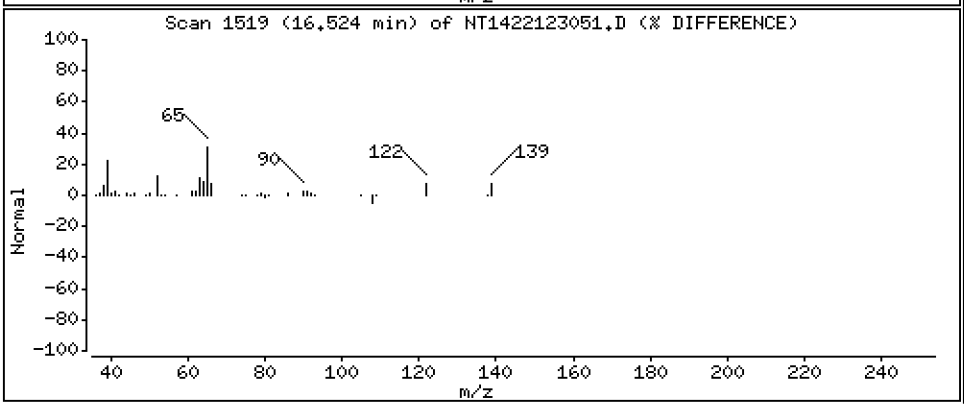
52 4-Nitroaniline

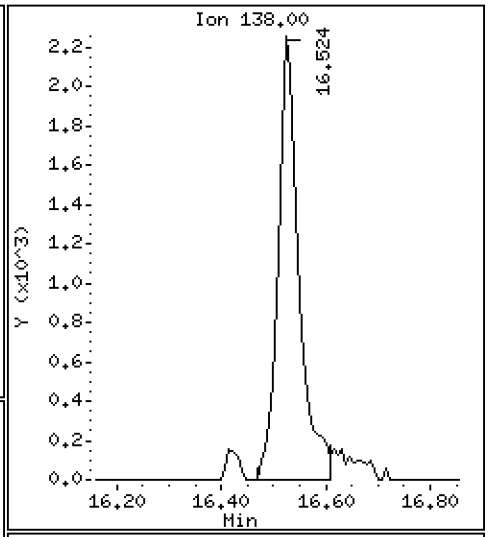
Concentration: 0.3128 ug/mL

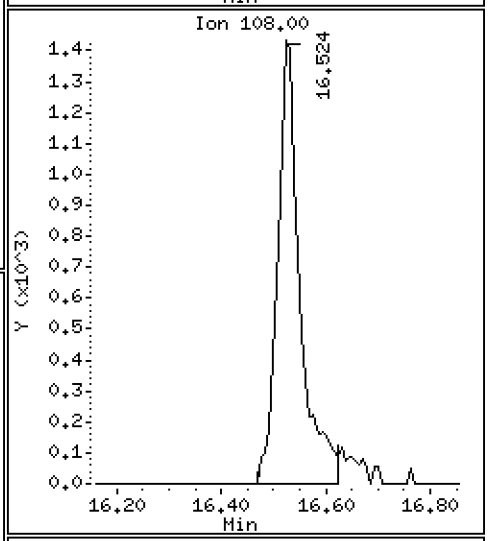


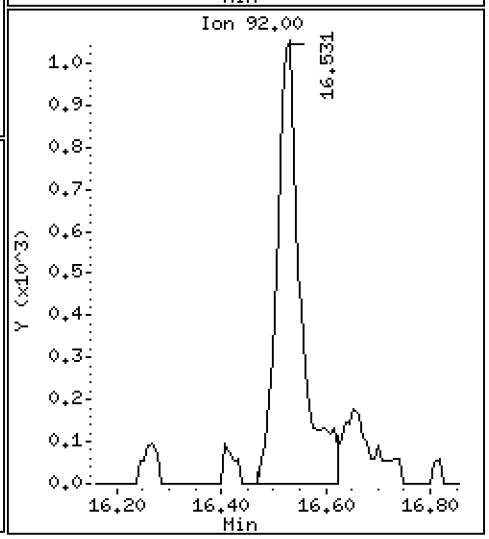












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

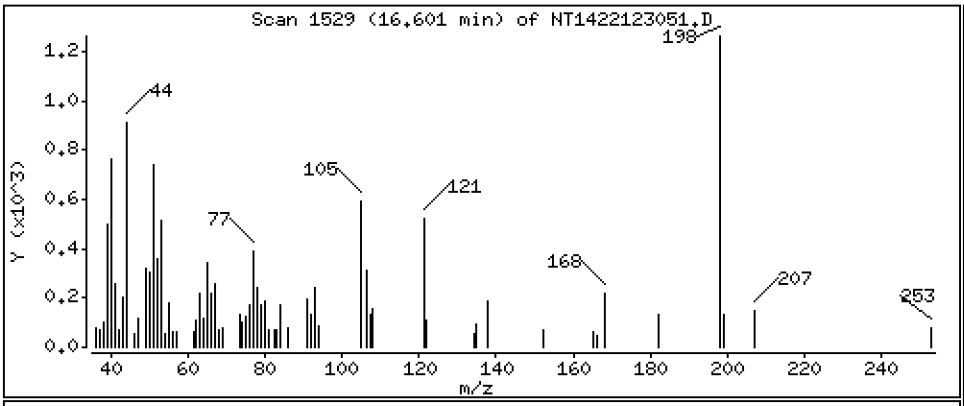
Operator: VTS

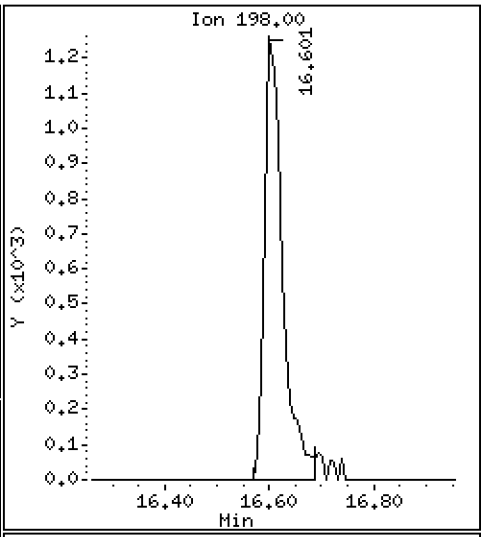
Column phase: ZB-5msi

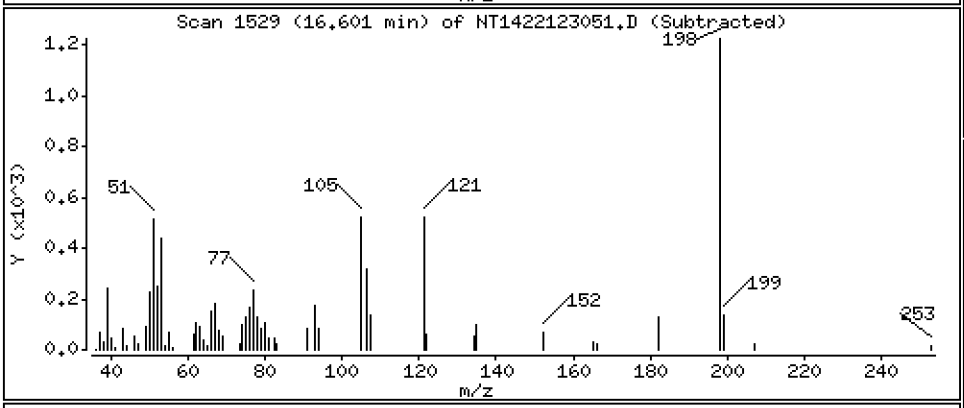
Column diameter: 0.25

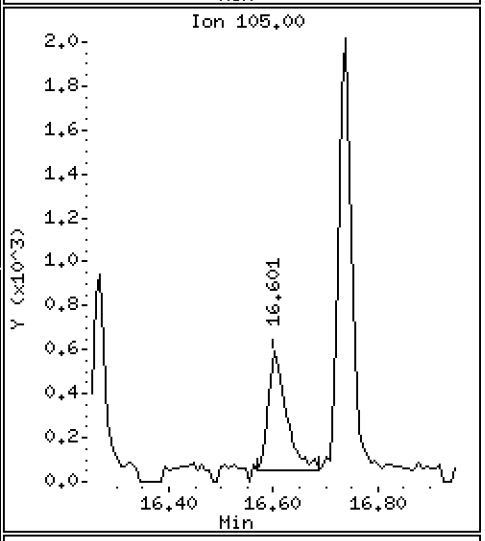
53 4,6-Dinitro-2-methylphenol

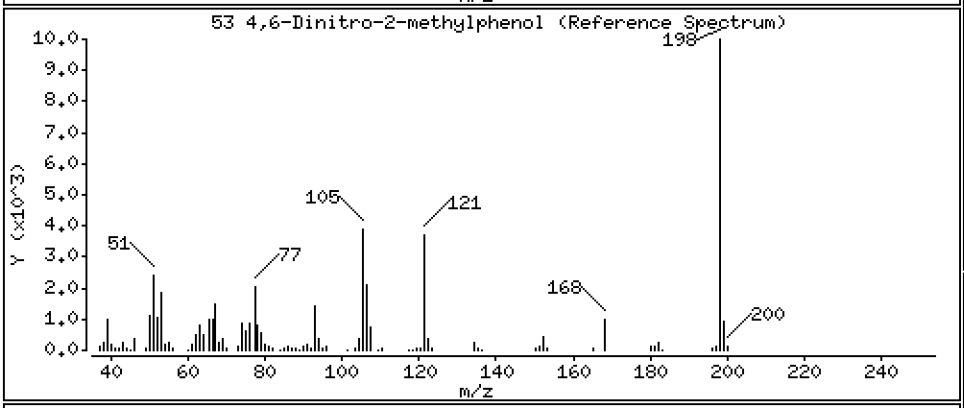
Concentration: 0.2020 ug/mL

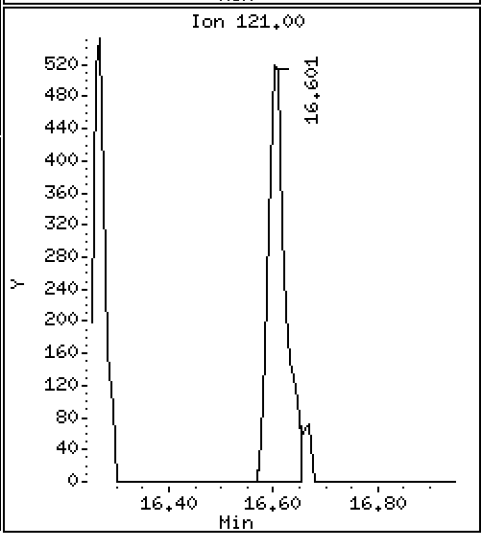


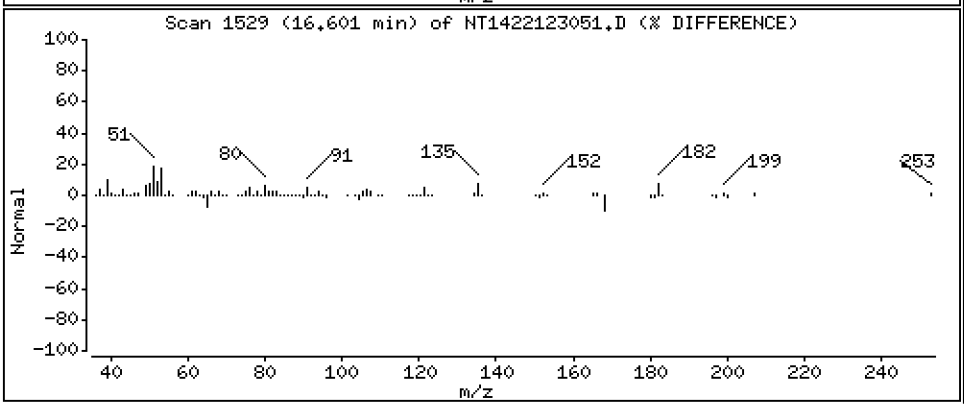












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

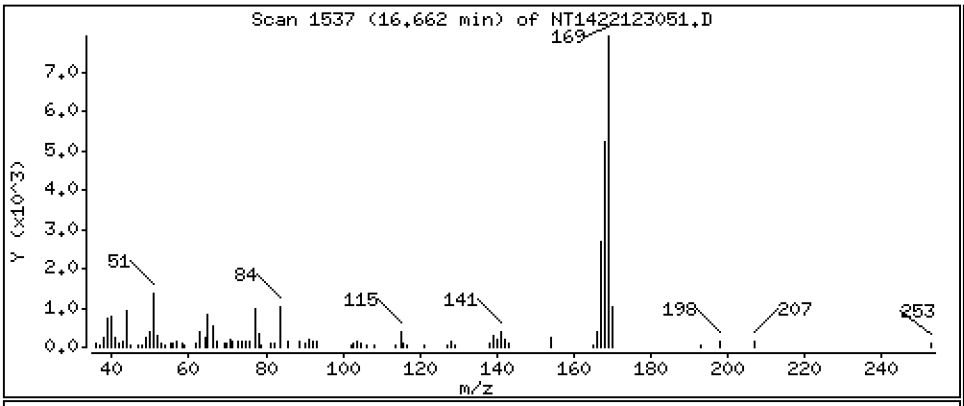
Operator: VTS

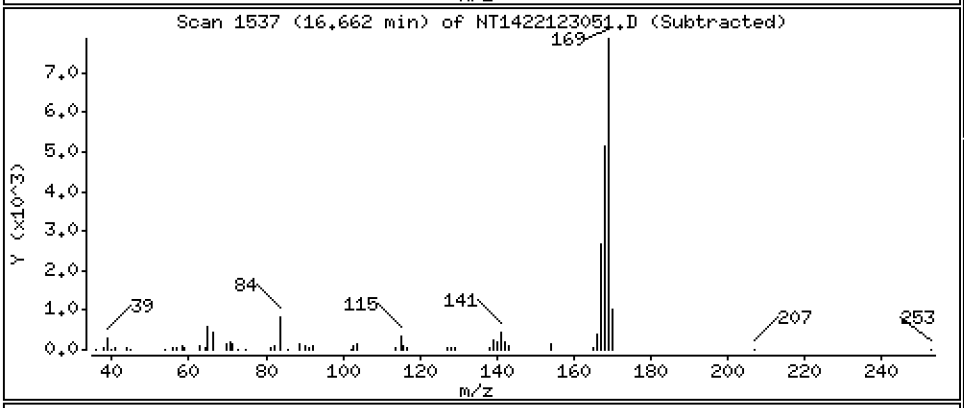
Column phase: ZB-5msi

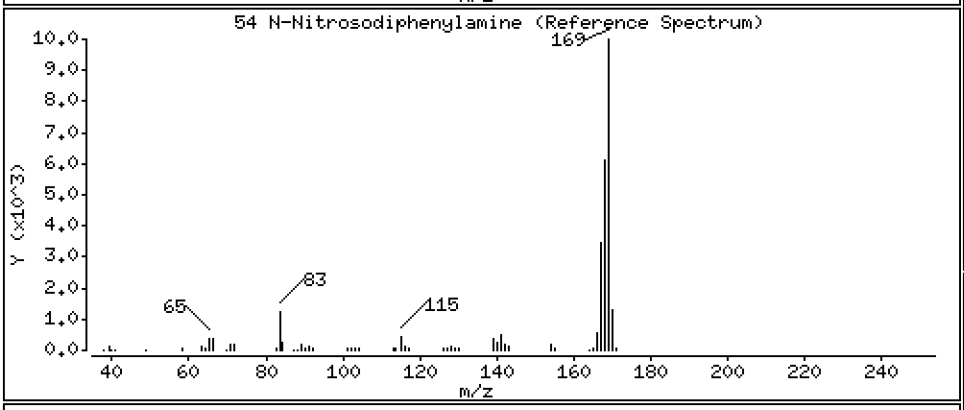
Column diameter: 0.25

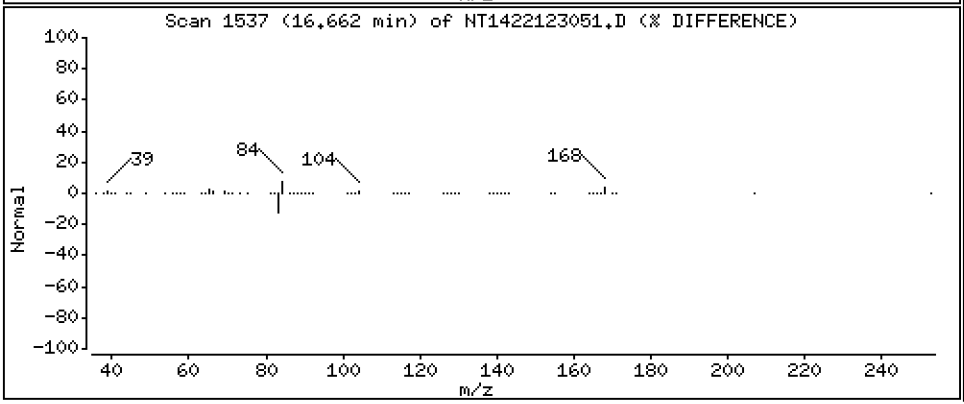
54 N-Nitrosodiphenylamine

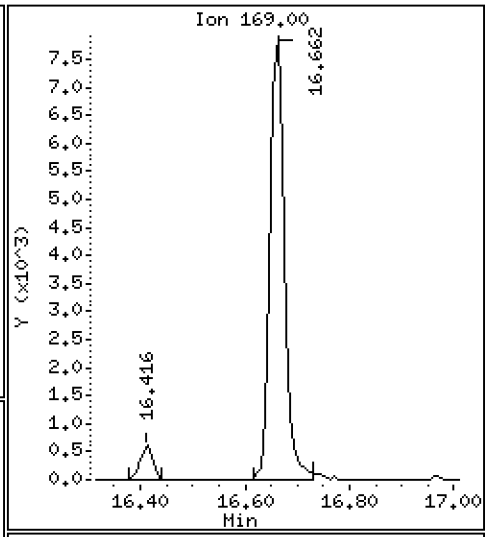
Concentration: 0.2422 ug/mL

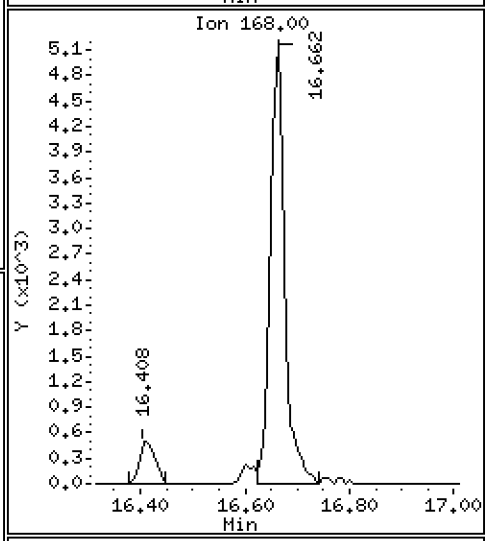


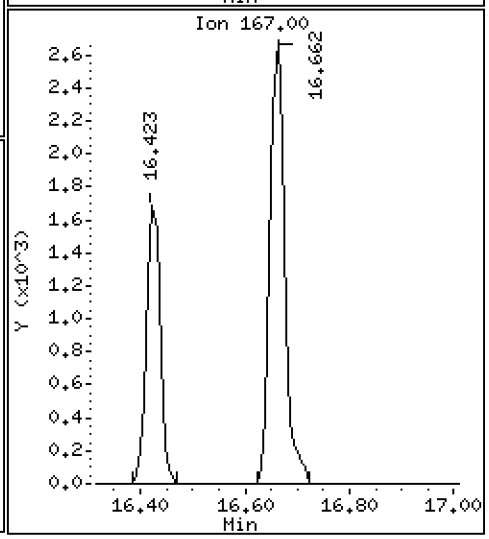












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

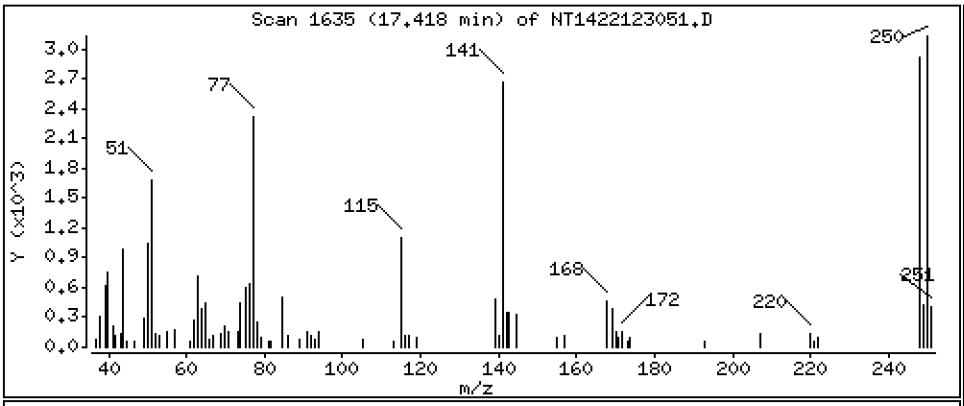
Operator: VTS

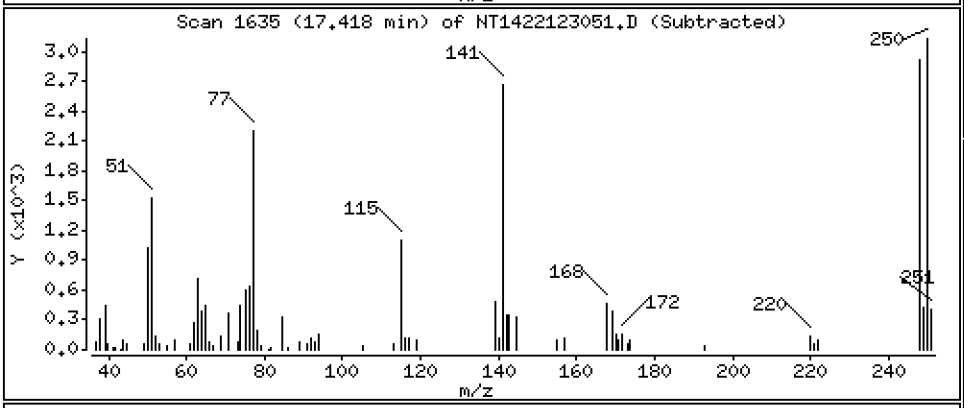
Column phase: ZB-5msi

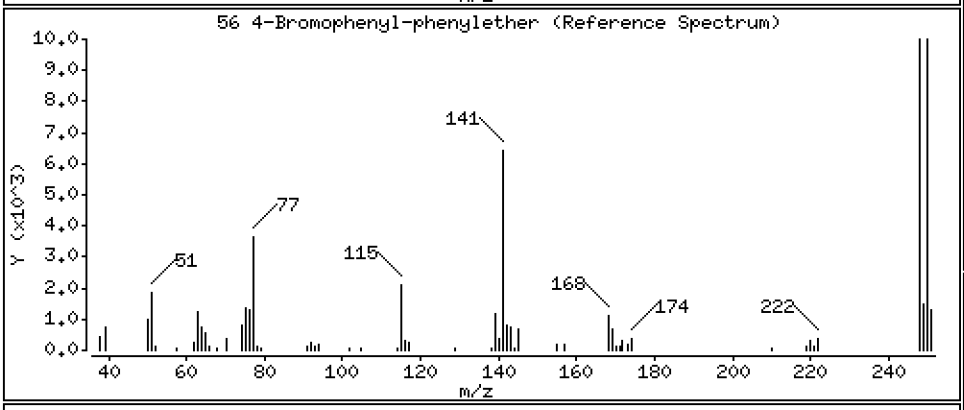
Column diameter: 0.25

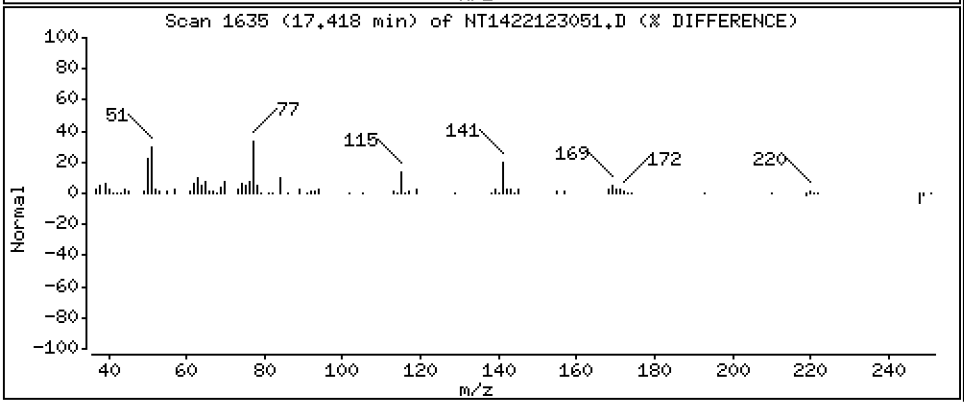
56 4-Bromophenyl-phenylether

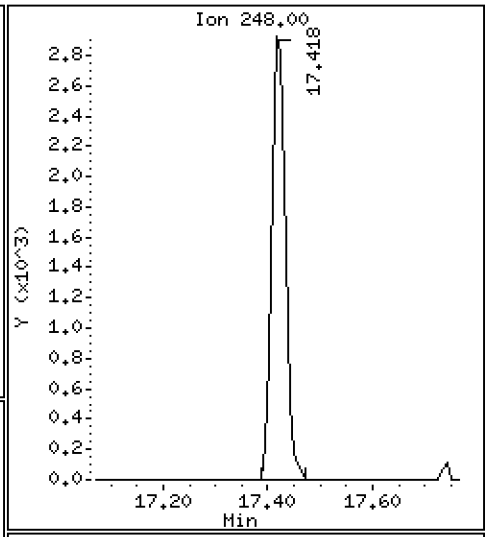
Concentration: 0.2274 ug/mL

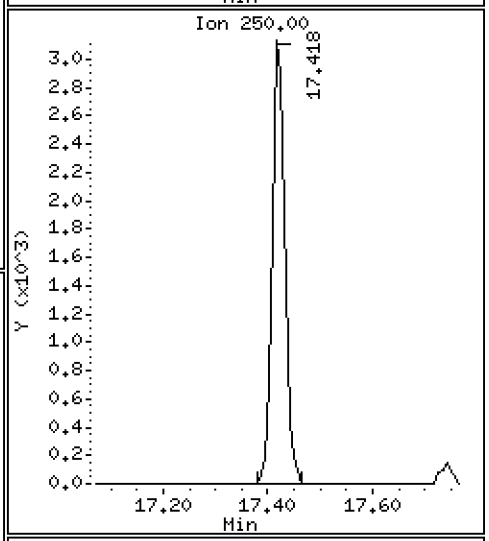


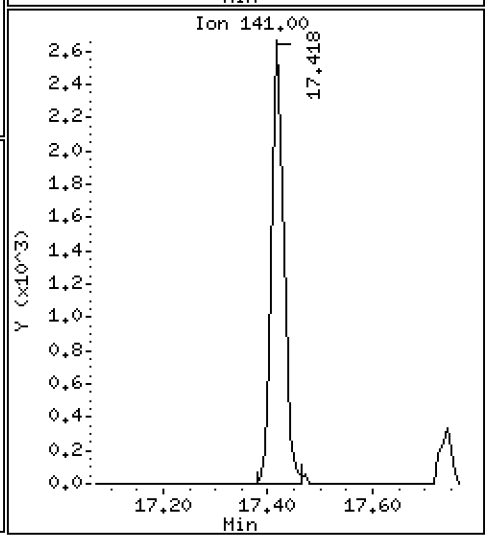












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

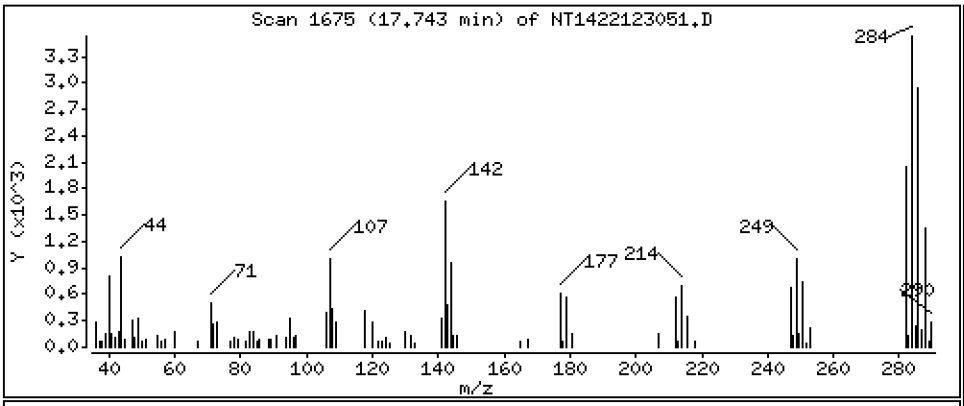
Operator: VTS

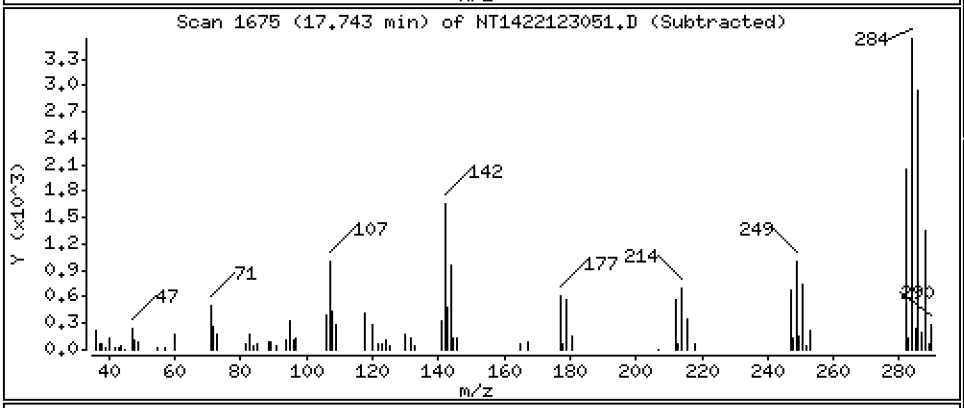
Column phase: ZB-5msi

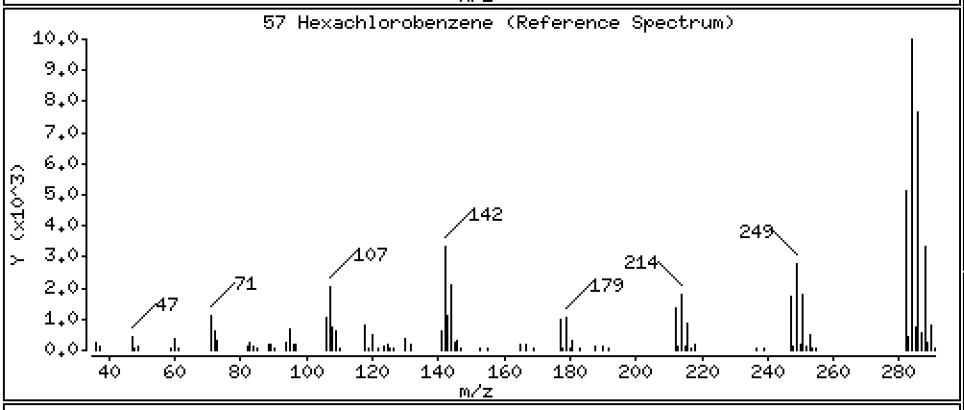
Column diameter: 0.25

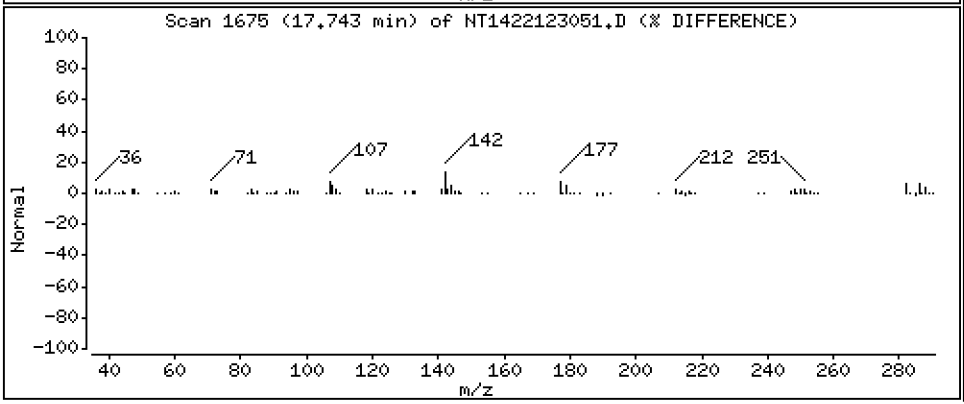
57 Hexachlorobenzene

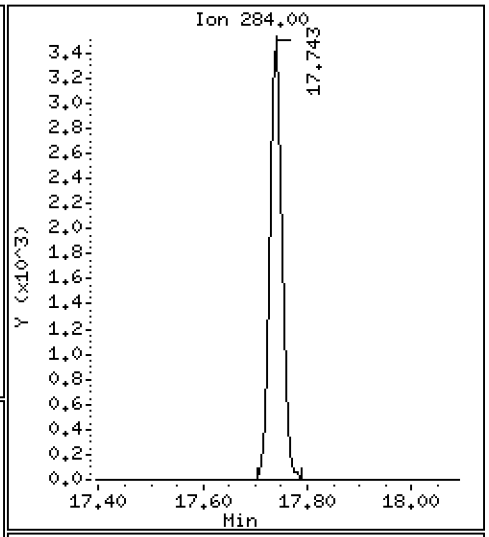
Concentration: 0.2291 ug/mL

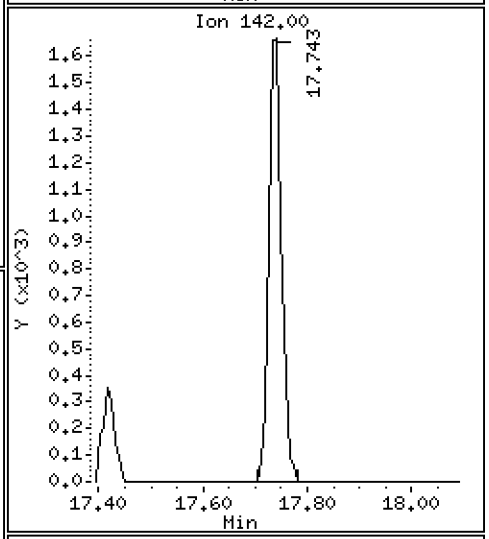


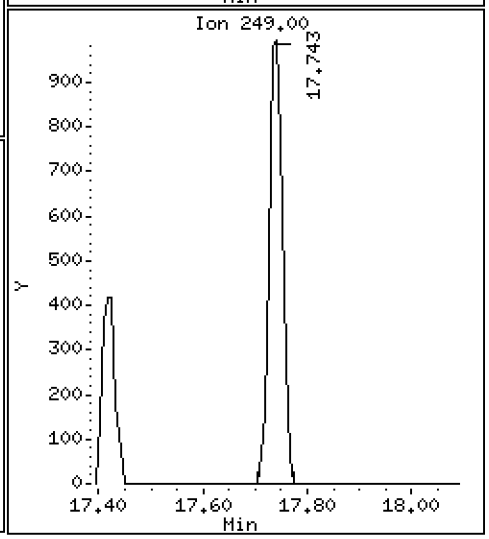












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

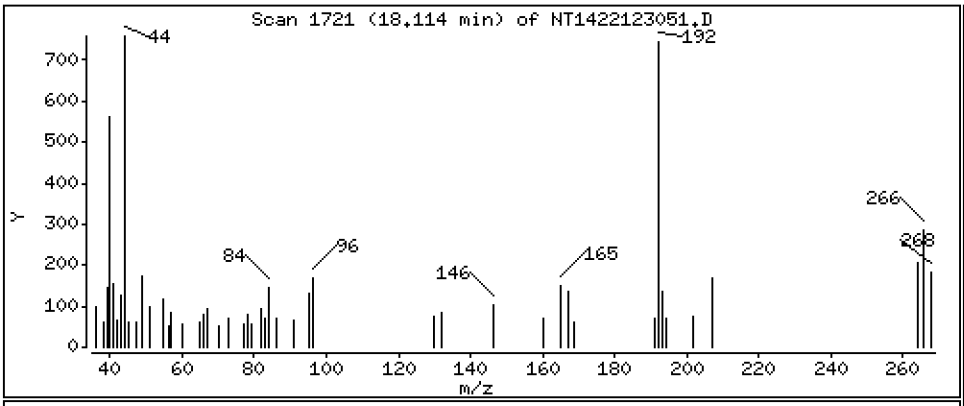
Operator: VTS

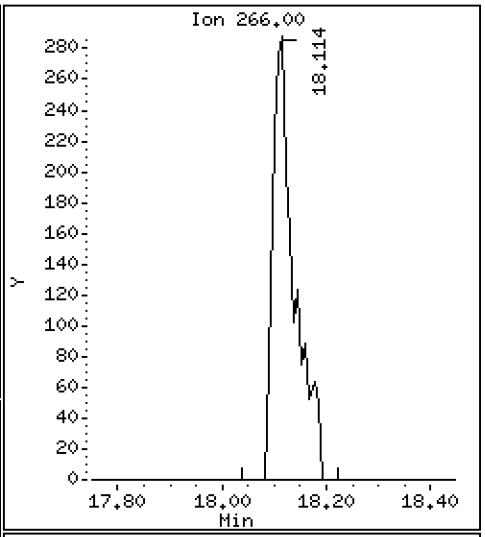
Column phase: ZB-5msi

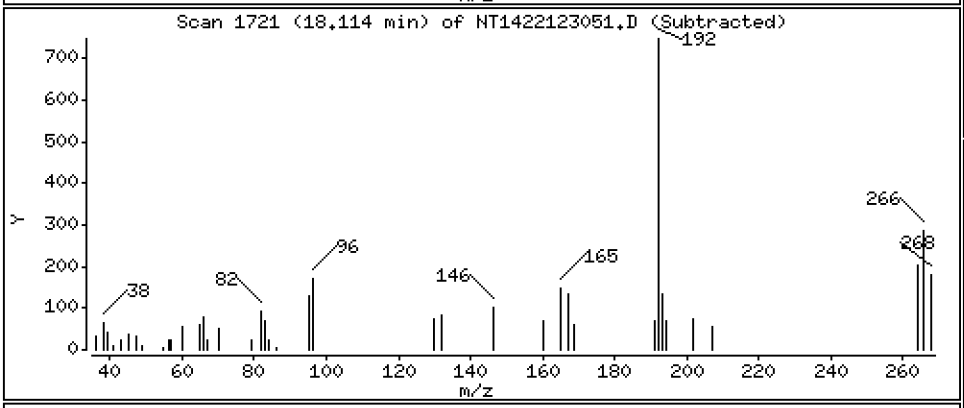
Column diameter: 0.25

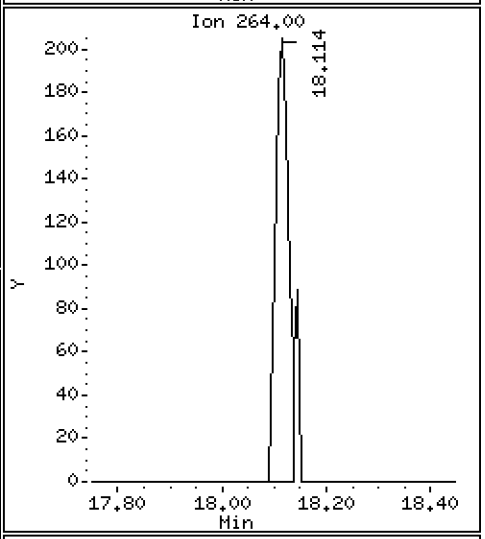
58 Pentachlorophenol

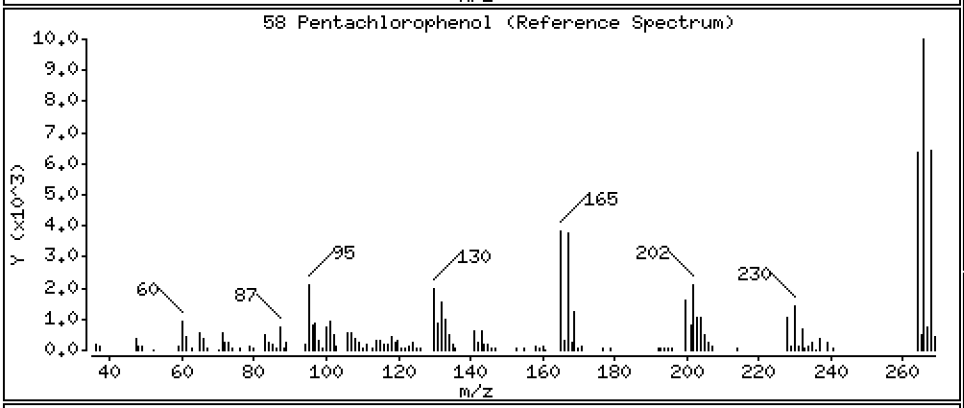
Concentration: 0.07669 ug/mL

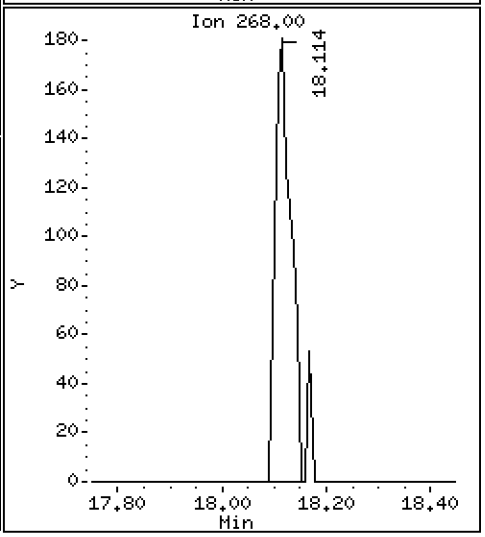


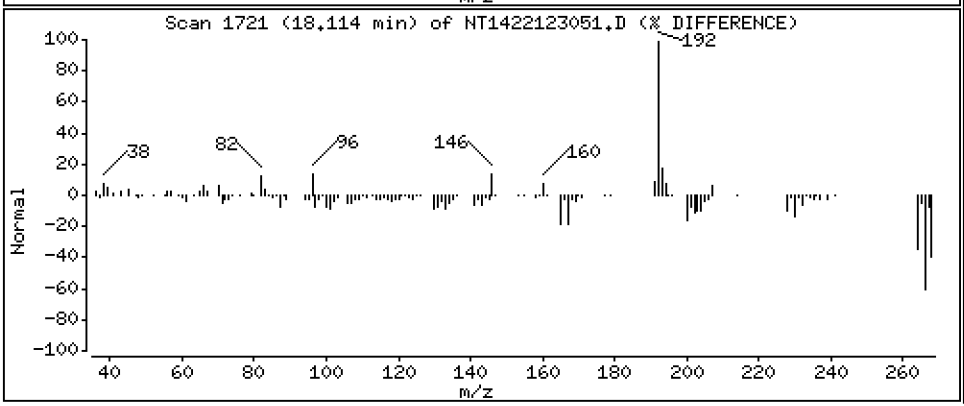












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

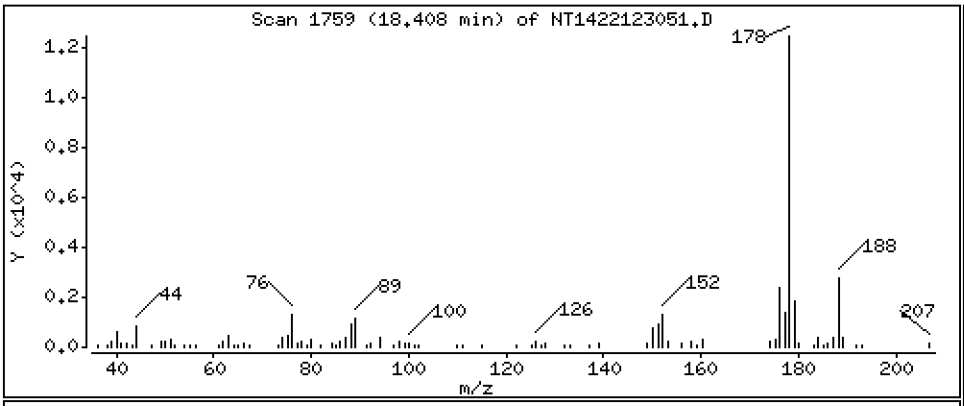
Operator: VTS

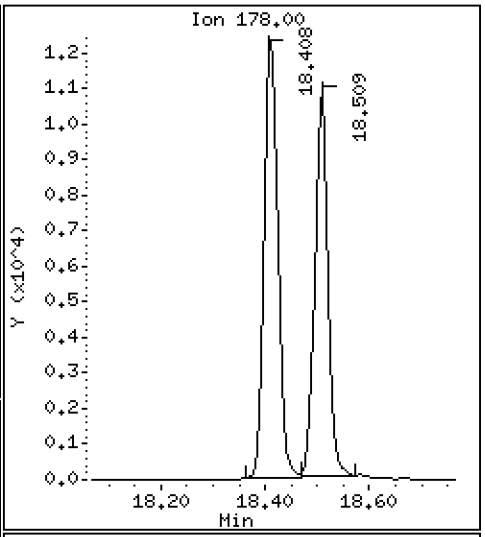
Column phase: ZB-5msi

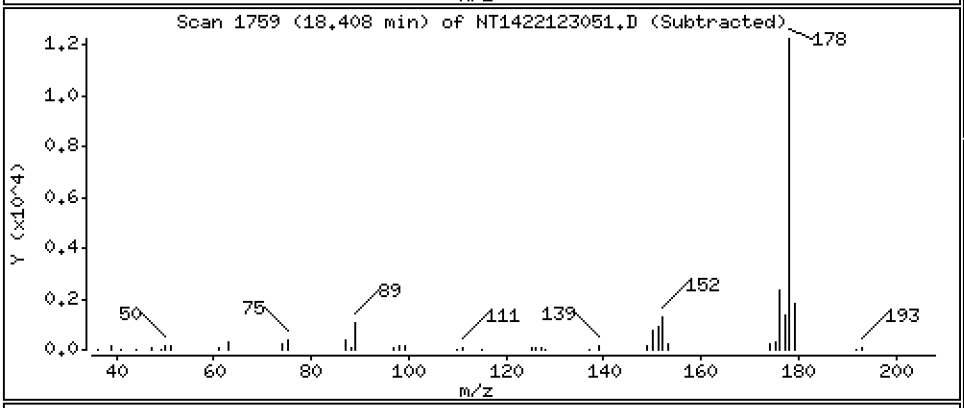
Column diameter: 0.25

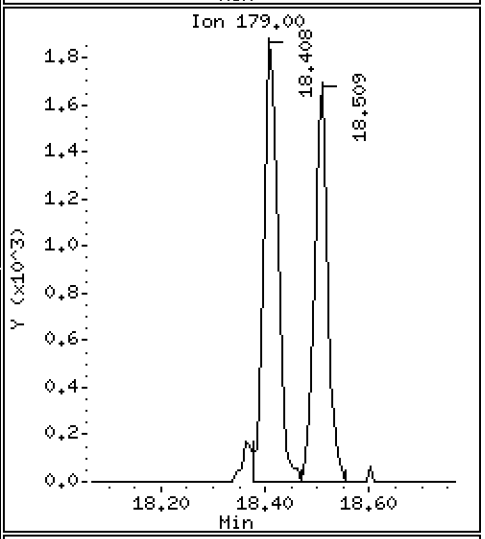
60 Phenanthrene

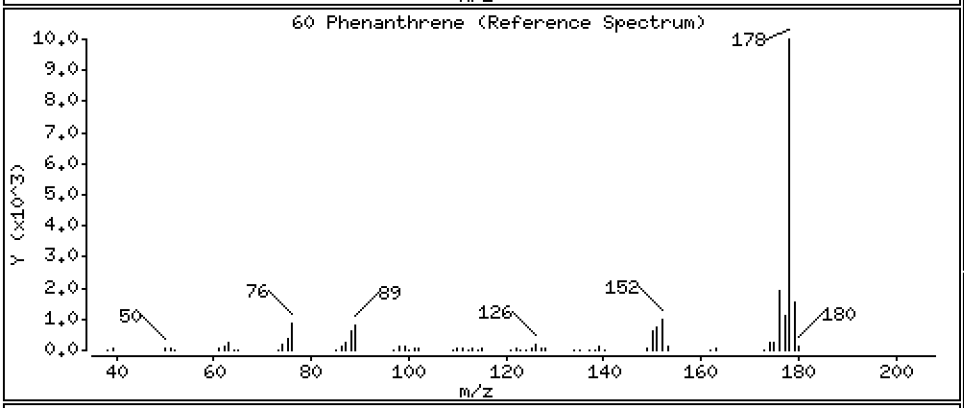
Concentration: 0.2415 ug/mL

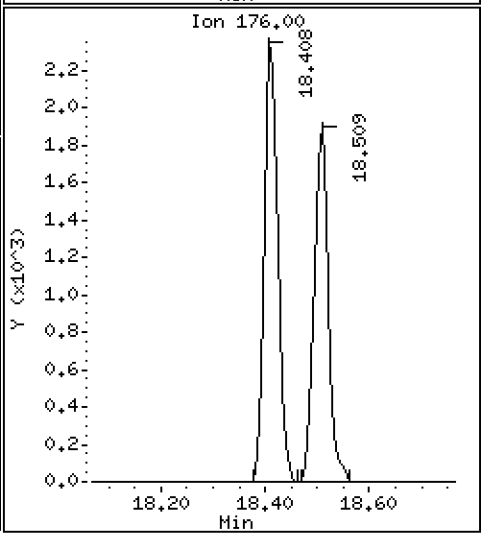


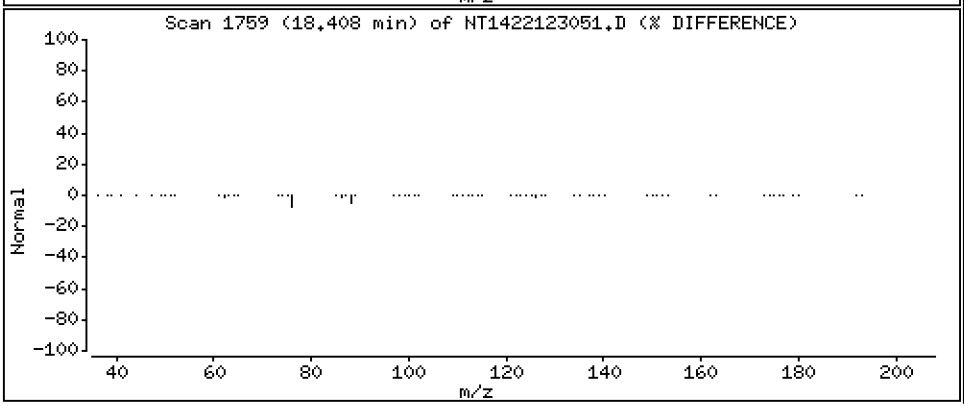












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

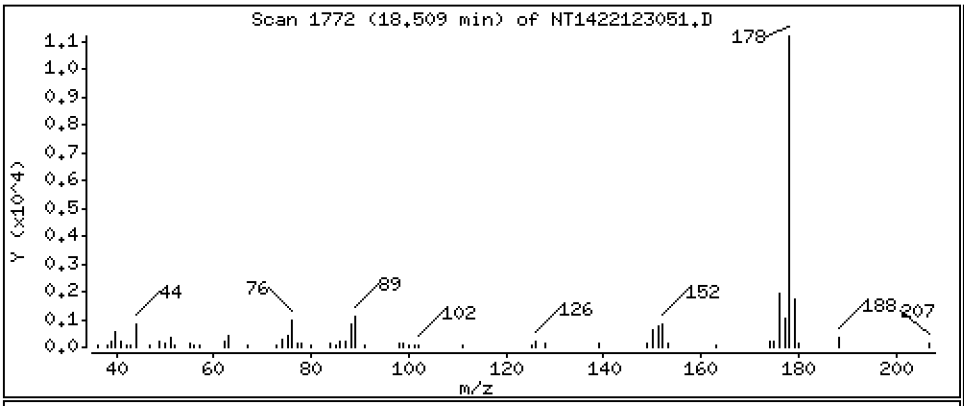
Operator: VTS

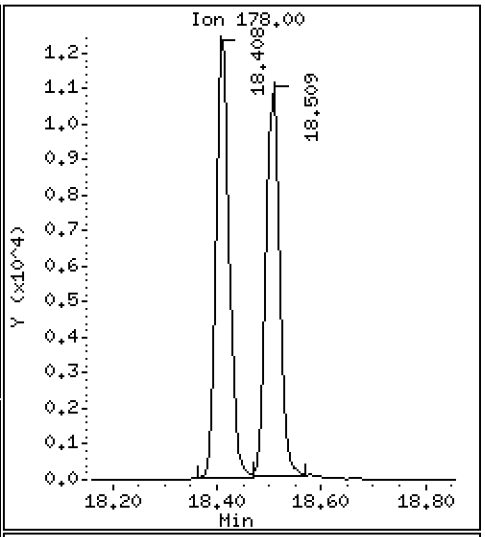
Column phase: ZB-5msi

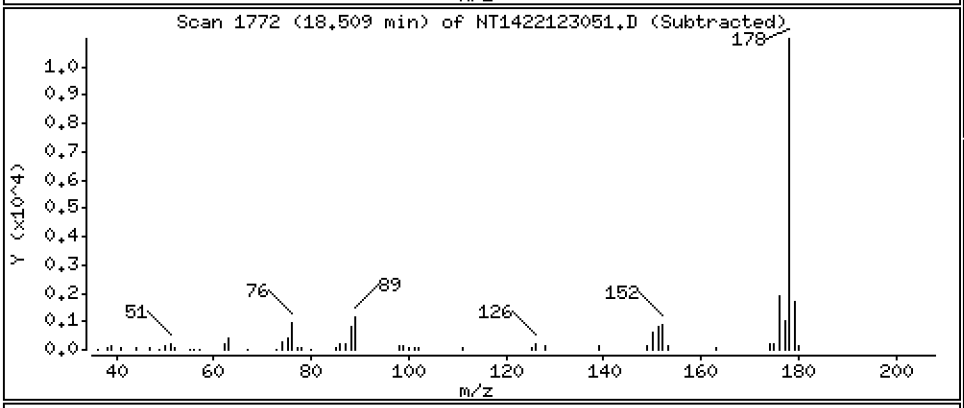
Column diameter: 0.25

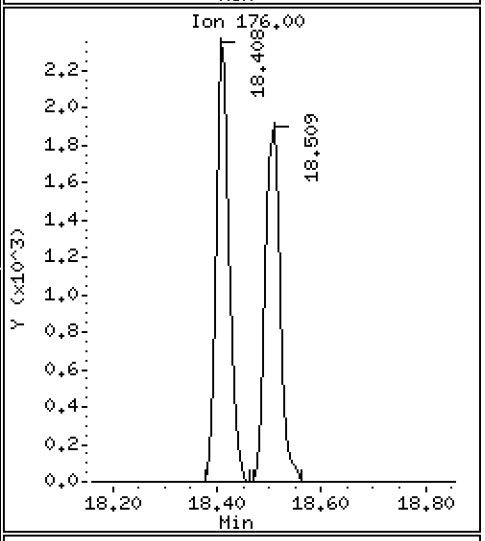
61 Anthracene

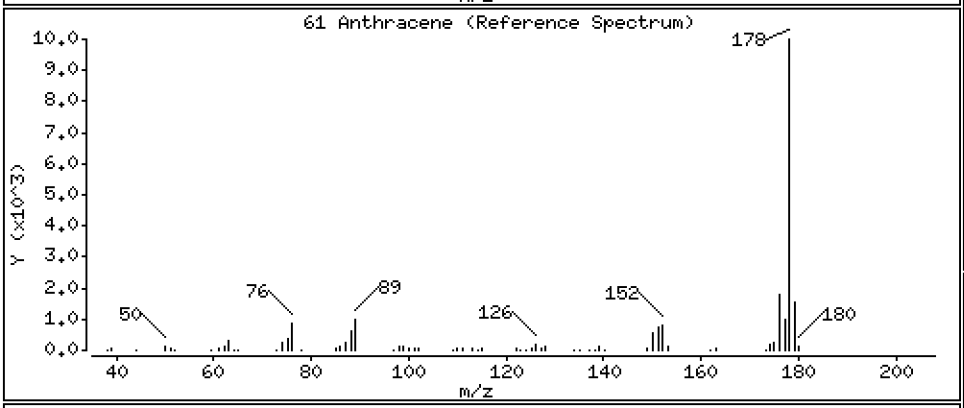
Concentration: 0.2183 ug/mL

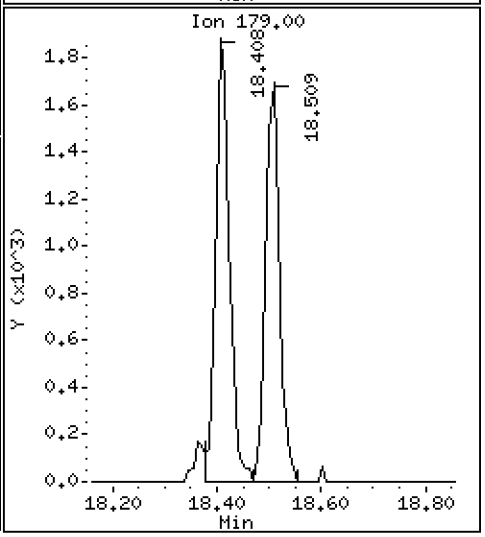


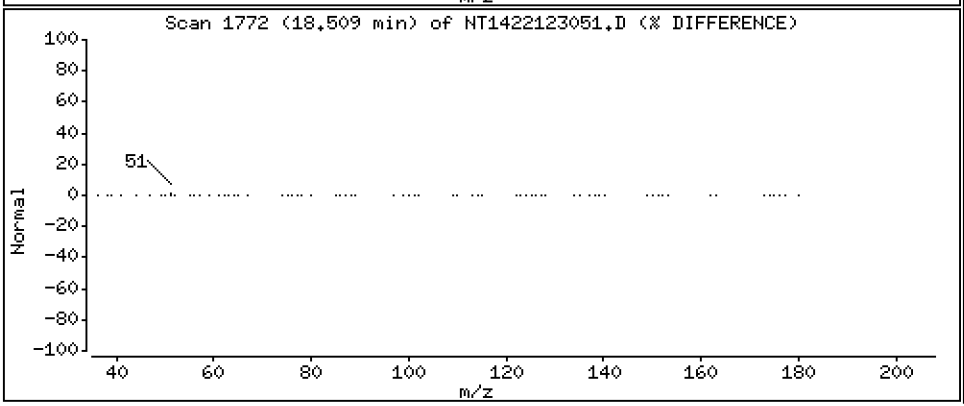












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

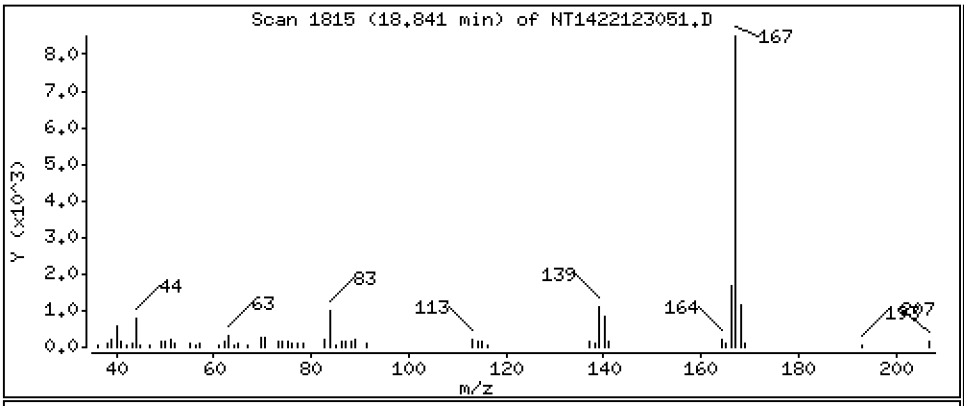
Operator: VTS

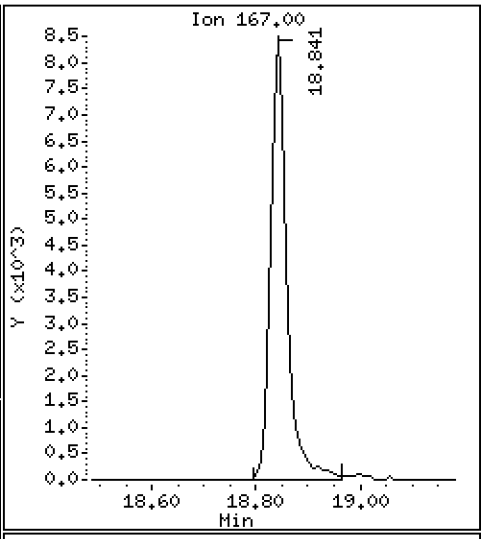
Column phase: ZB-5msi

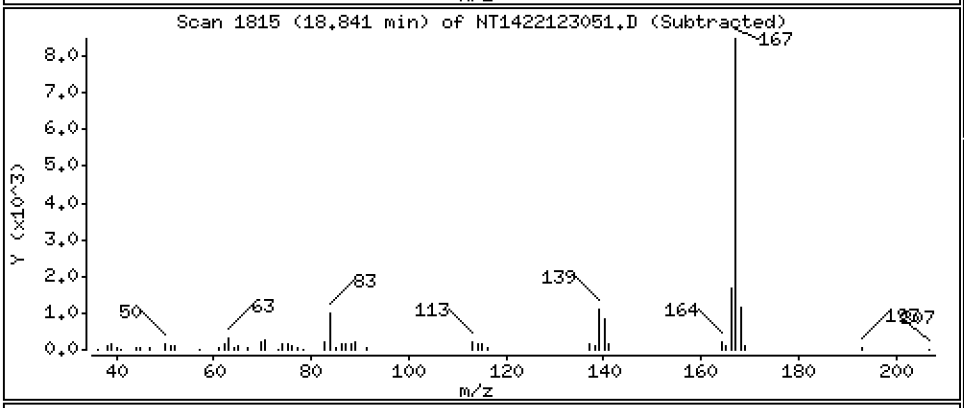
Column diameter: 0.25

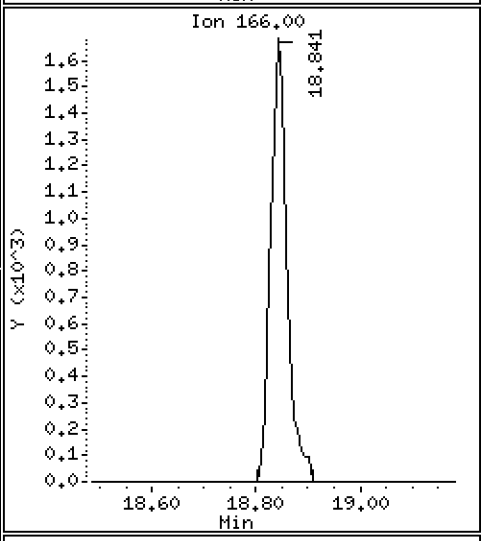
62 Carbazole

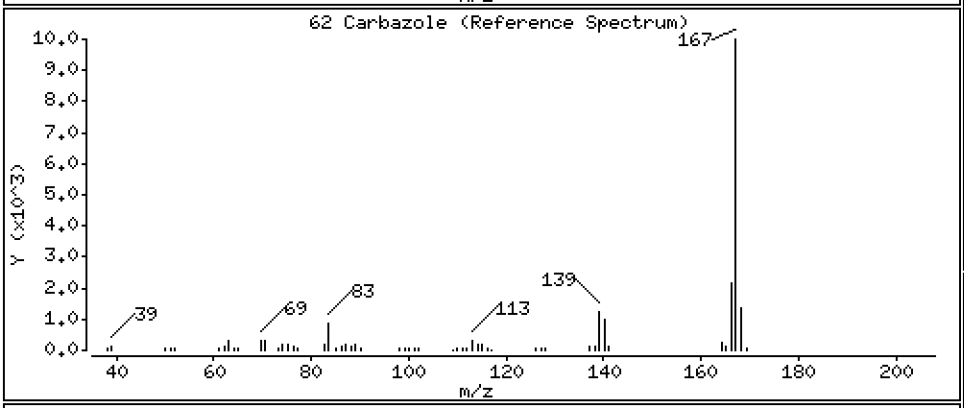
Concentration: 0.2174 ug/mL

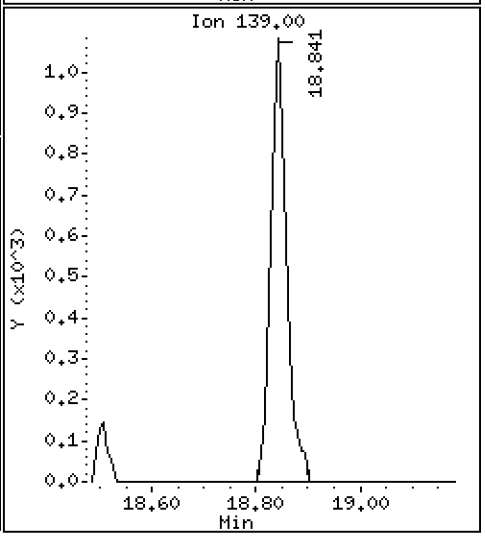


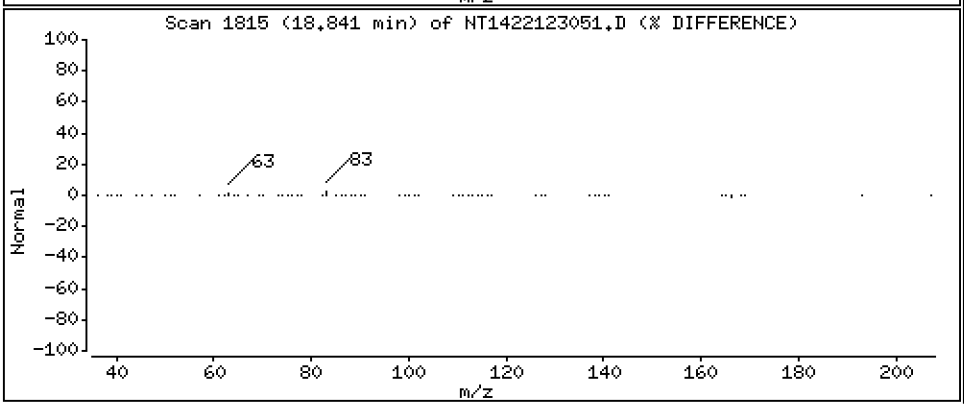












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

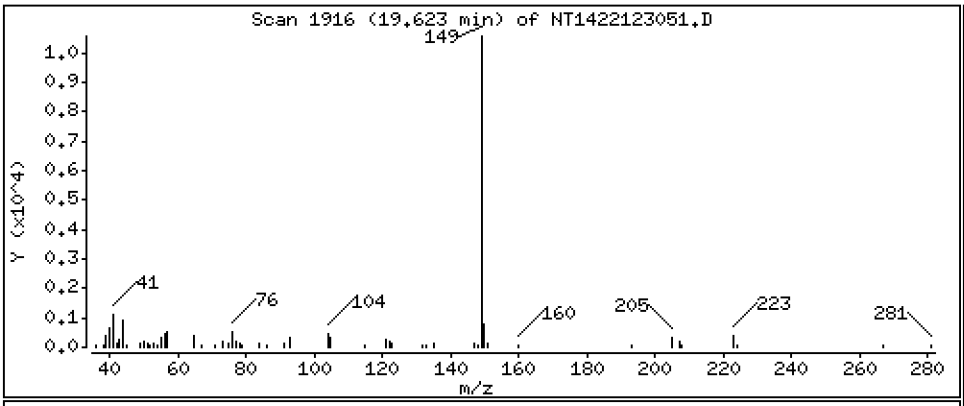
Operator: VTS

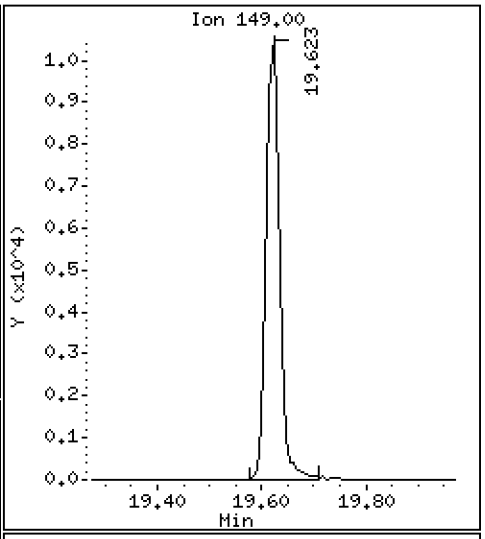
Column phase: ZB-5msi

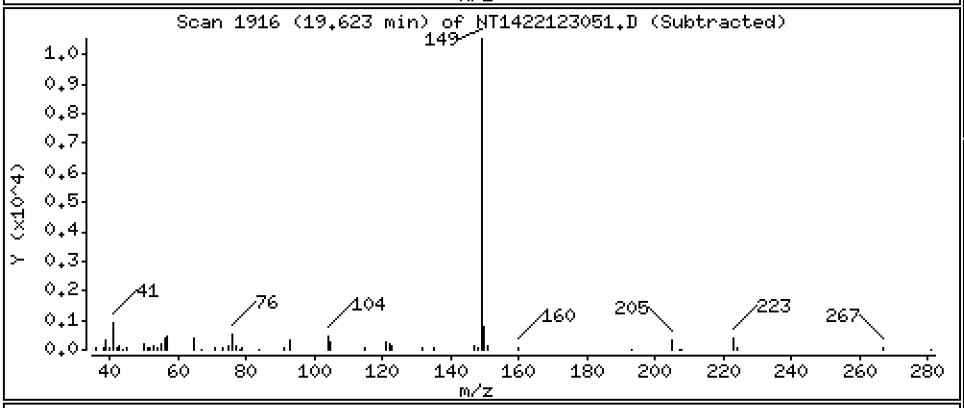
Column diameter: 0.25

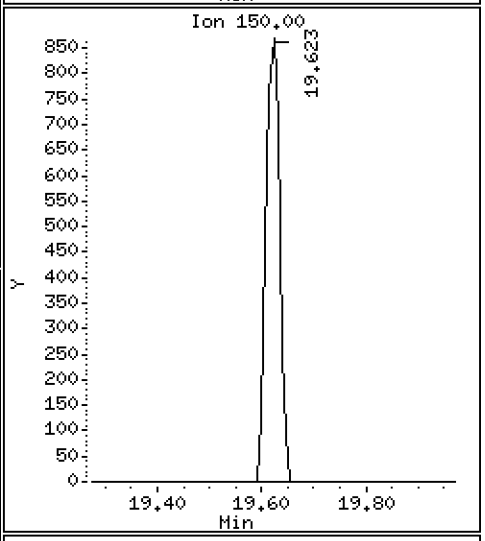
63 Di-n-butylphthalate

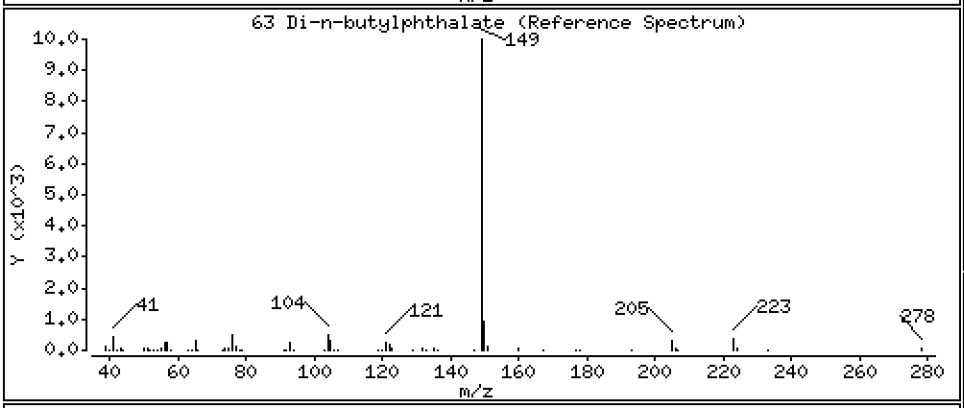
Concentration: 0.1906 ug/mL

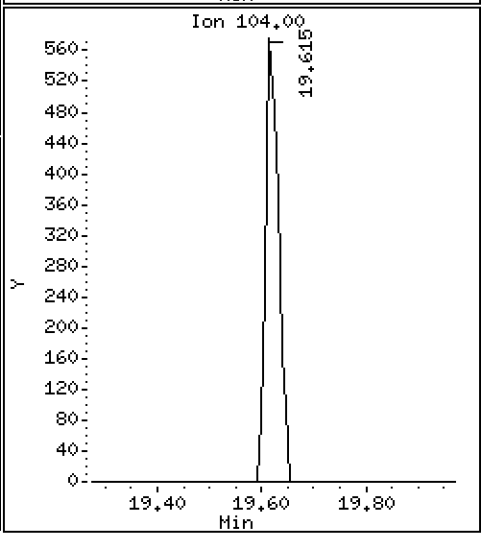


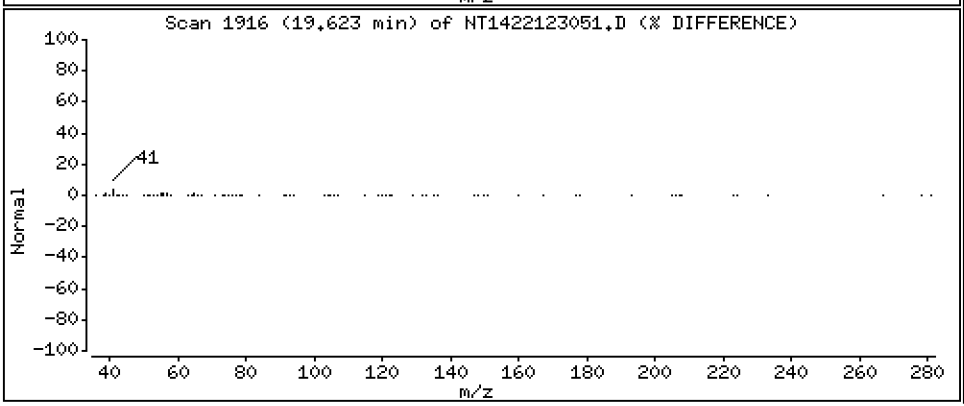












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

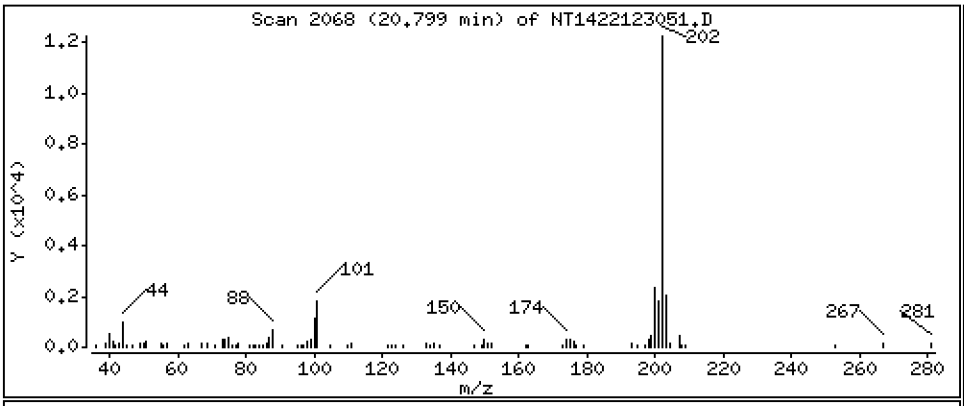
Operator: VTS

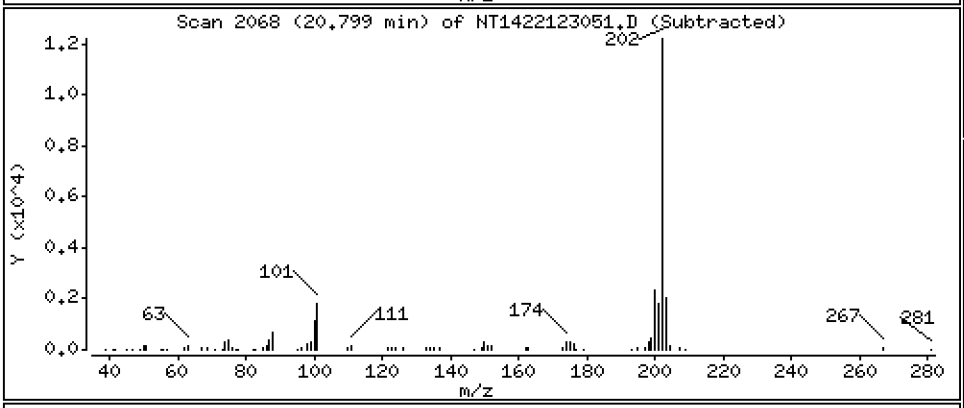
Column phase: ZB-5msi

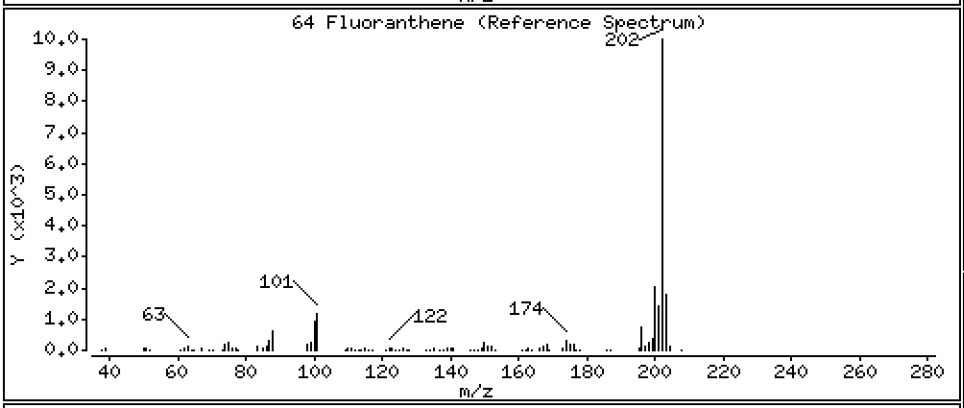
Column diameter: 0.25

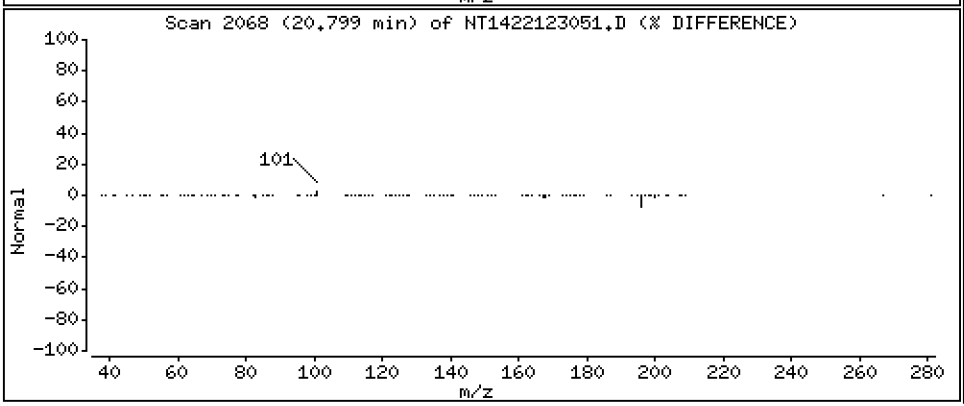
64 Fluoranthene

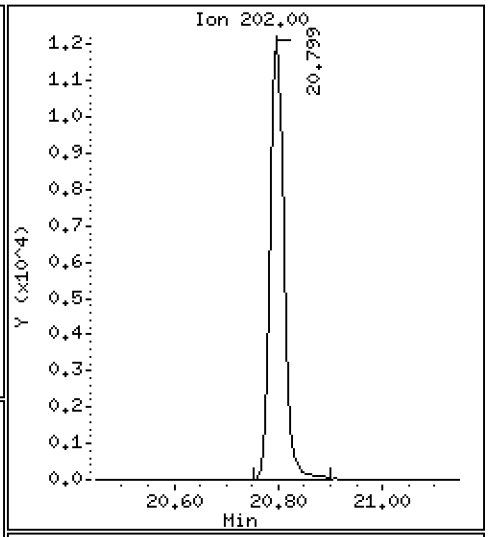
Concentration: 0.2308 ug/mL

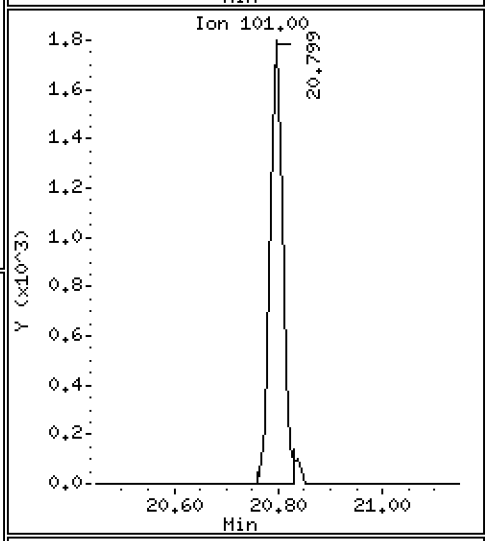


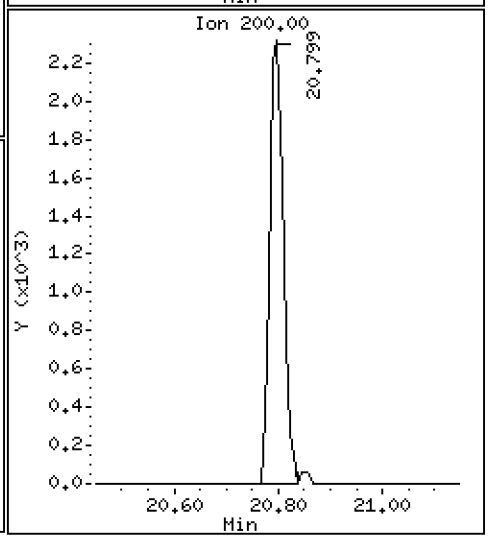












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

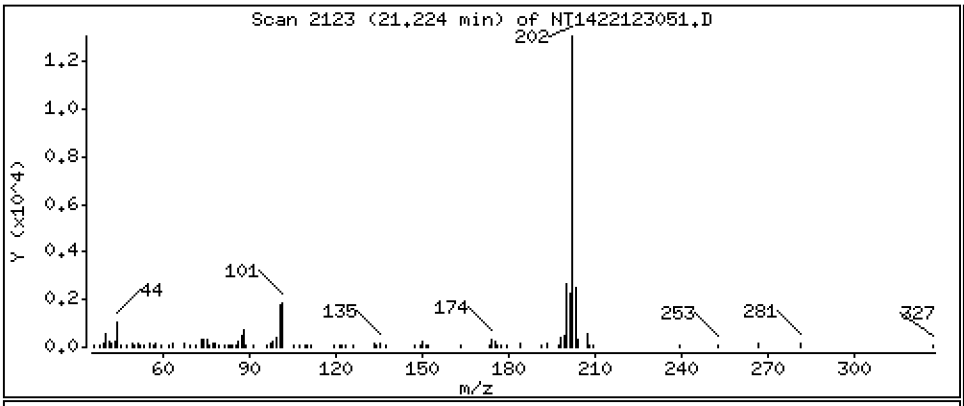
Operator: VTS

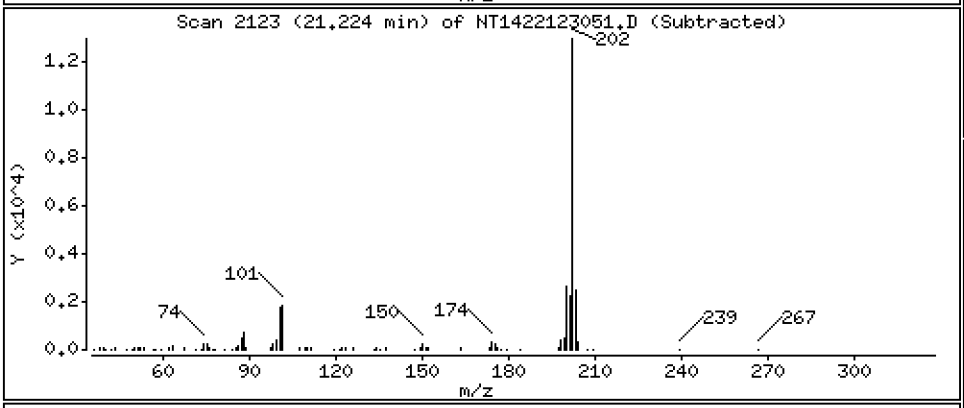
Column phase: ZB-5msi

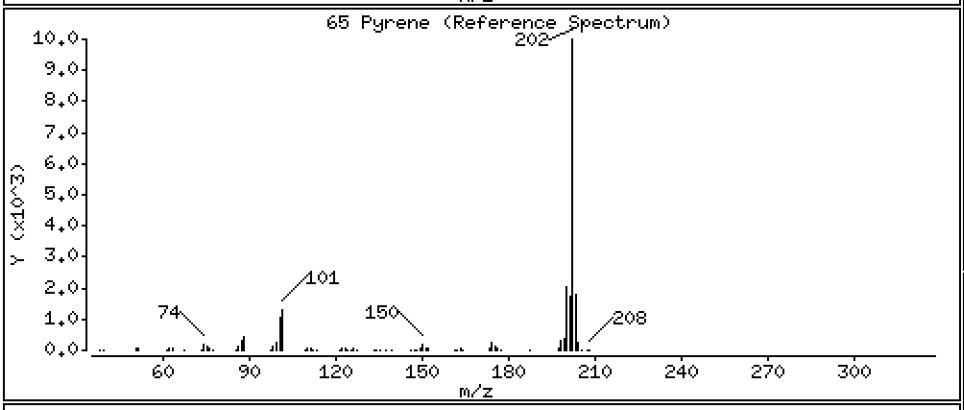
Column diameter: 0.25

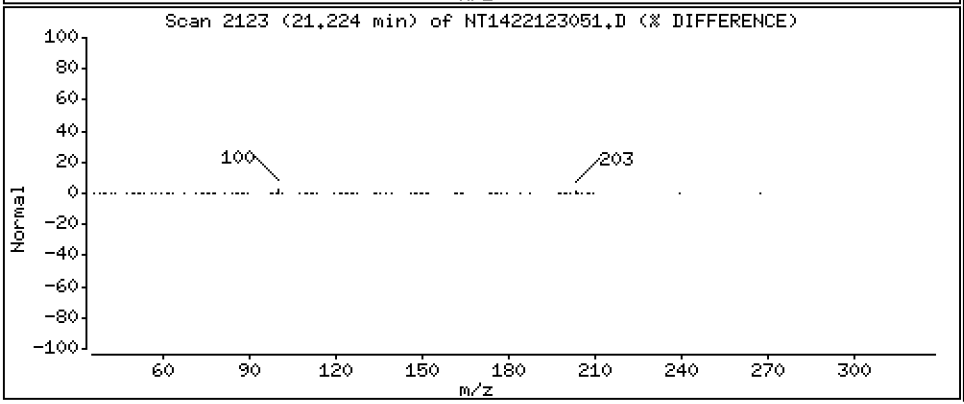
65 Pyrene

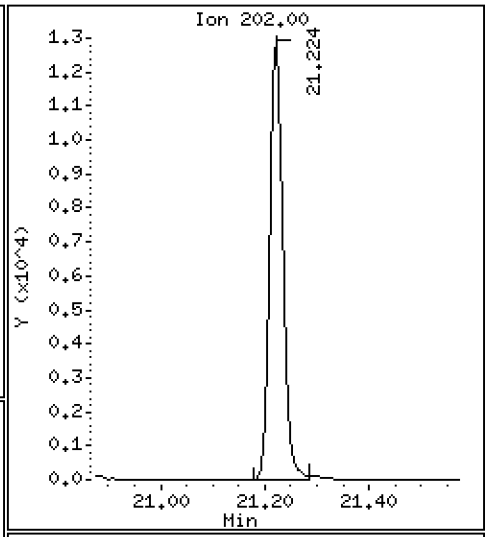
Concentration: 0.2212 ug/mL

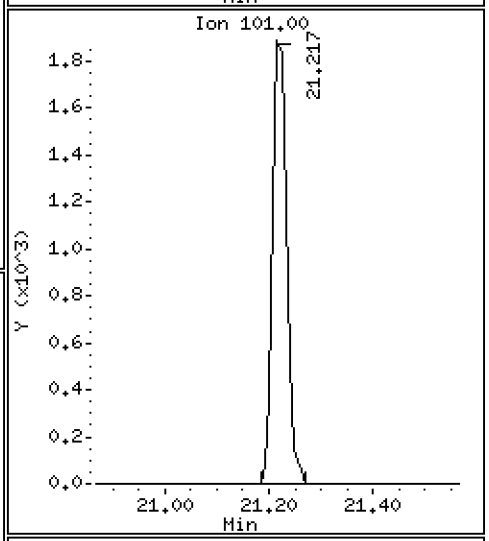


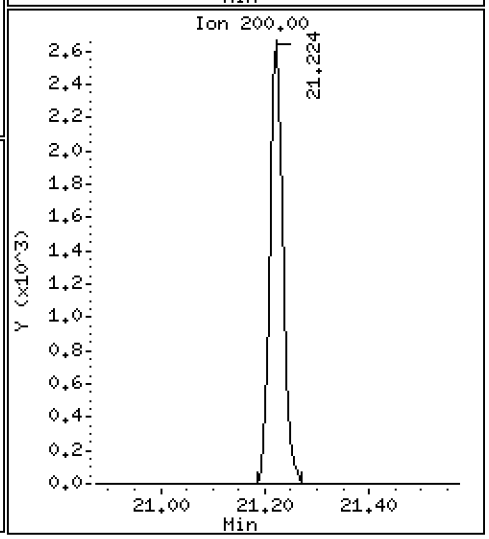












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

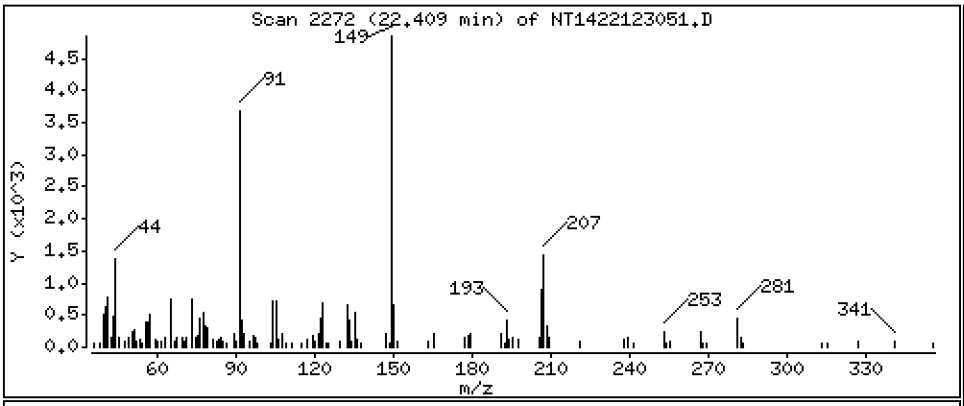
Operator: VTS

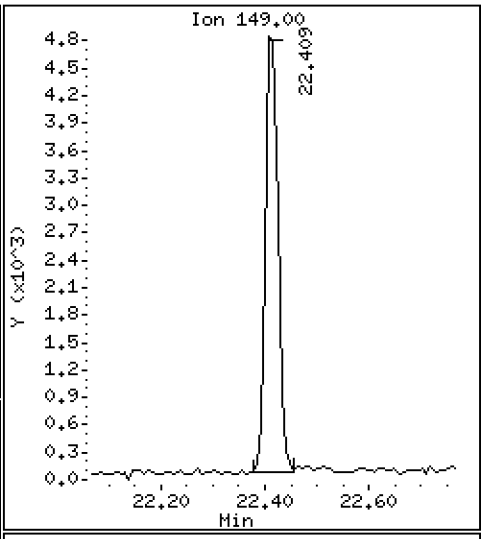
Column phase: ZB-5msi

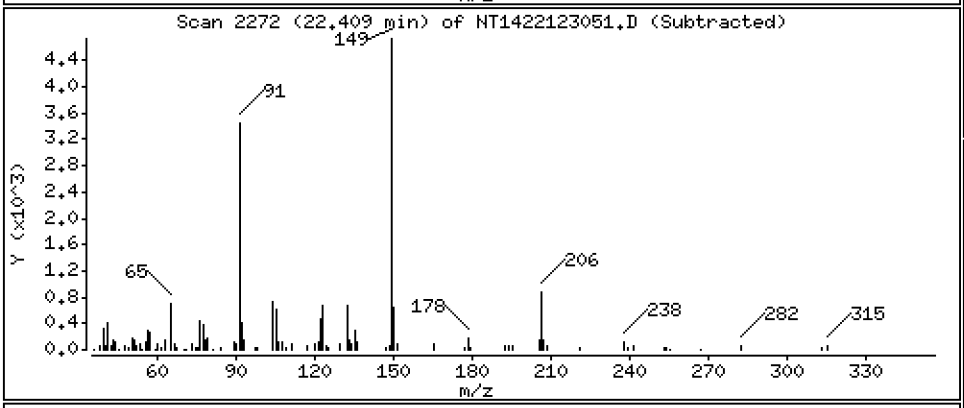
Column diameter: 0.25

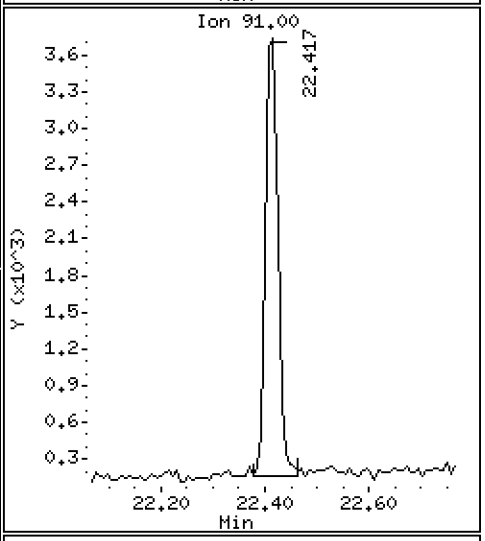
67 Butylbenzylphthalate

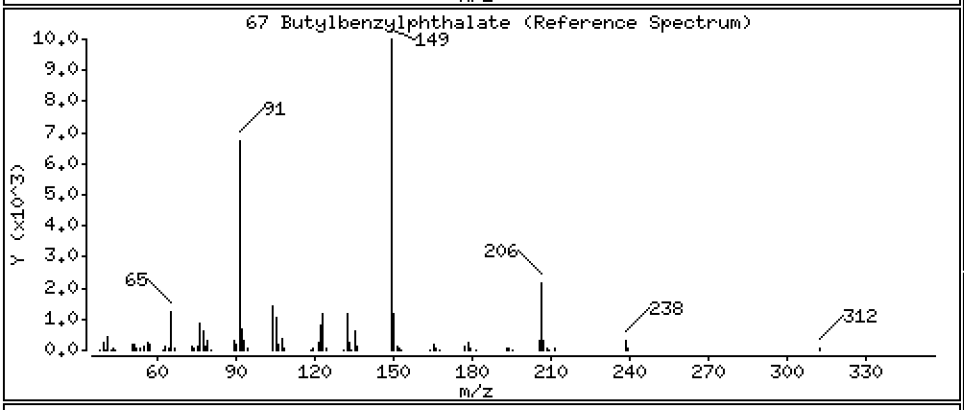
Concentration: 0.2080 ug/mL

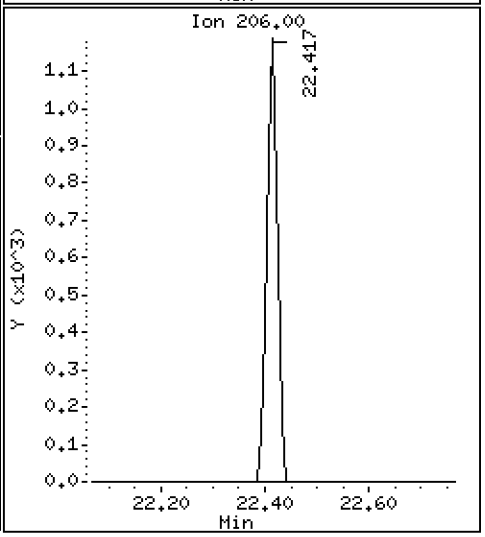


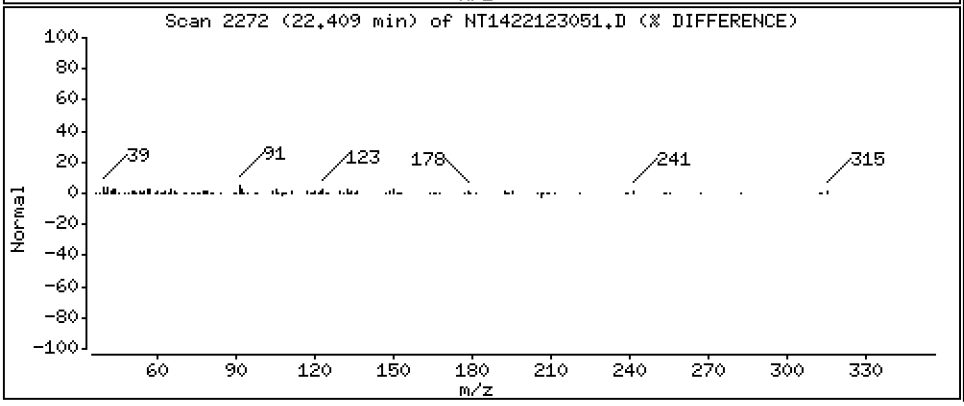












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

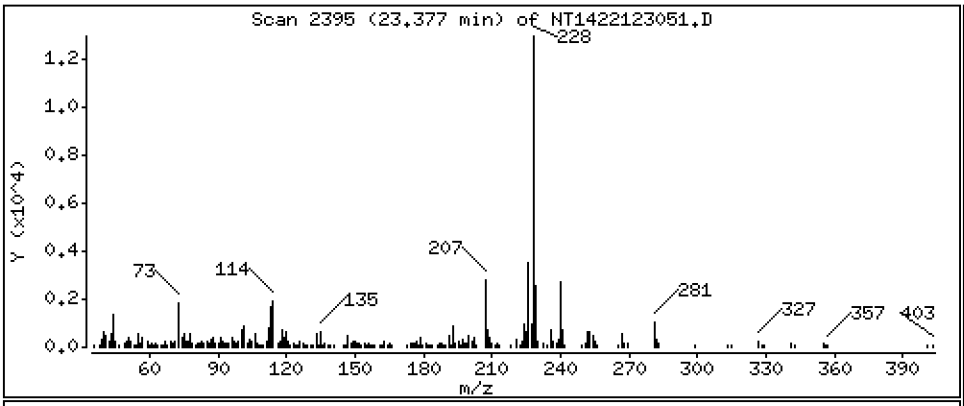
Operator: VTS

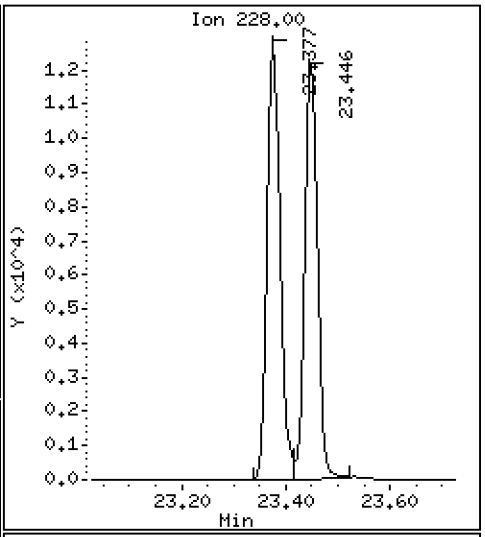
Column phase: ZB-5msi

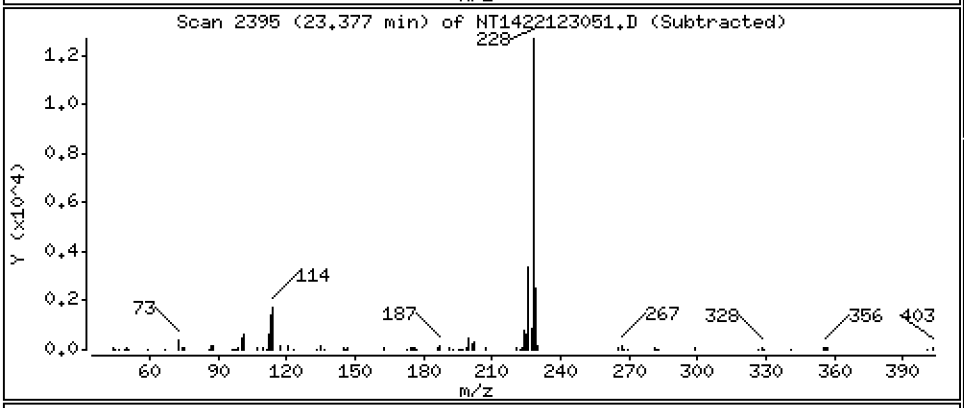
Column diameter: 0.25

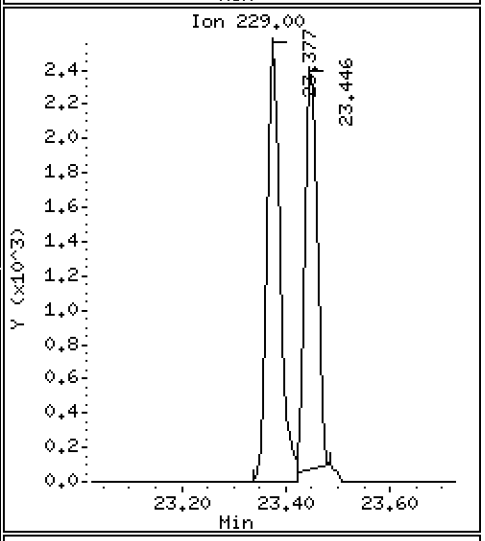
68 Benzo(a)anthracene

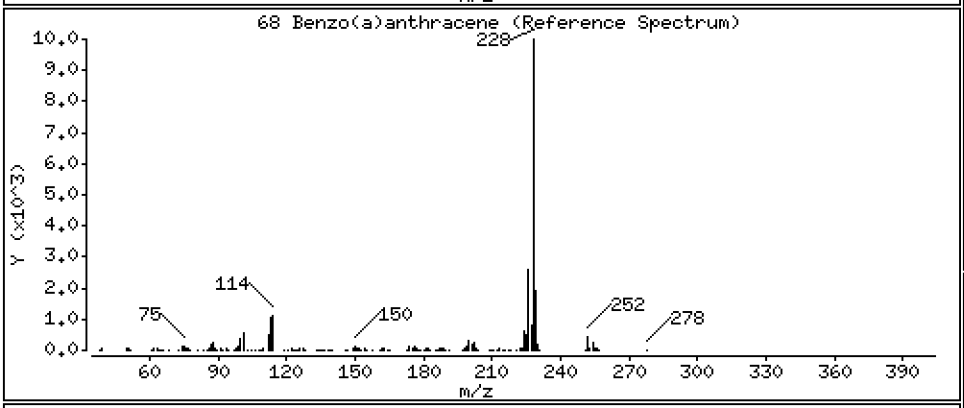
Concentration: 0.2415 ug/mL

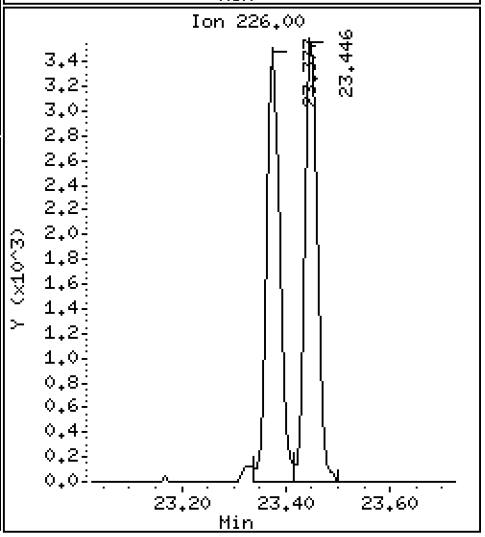


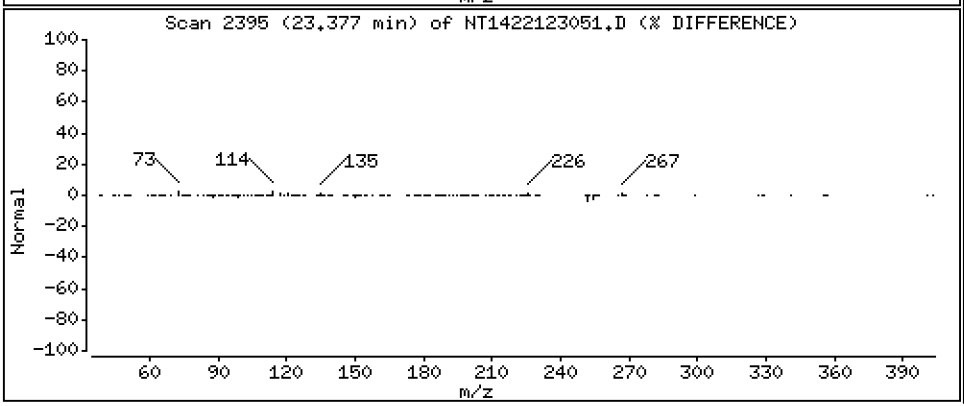












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

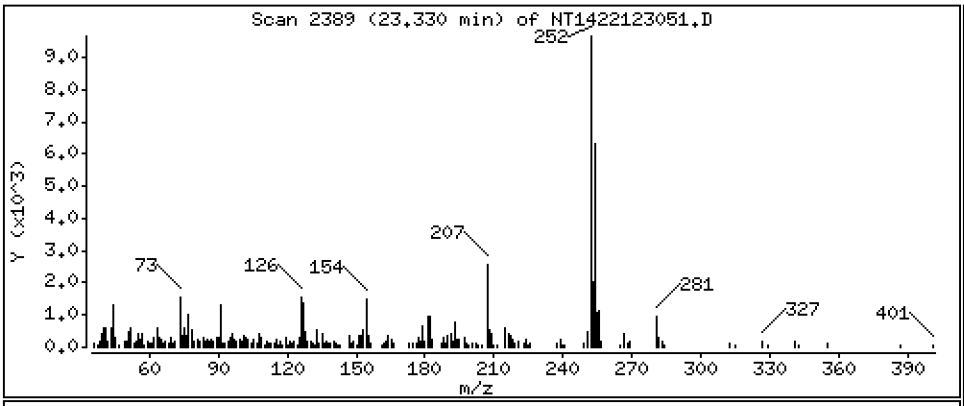
Operator: VTS

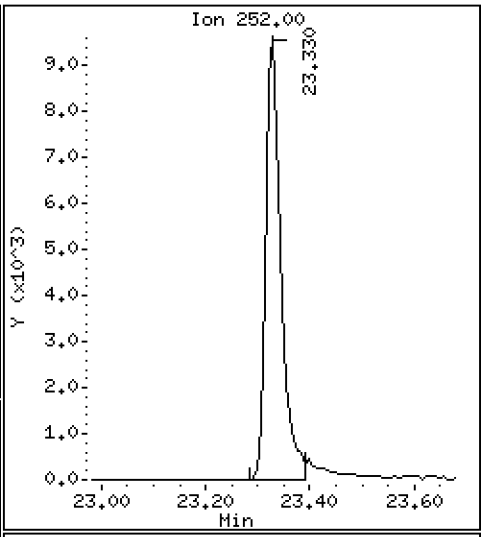
Column phase: ZB-5msi

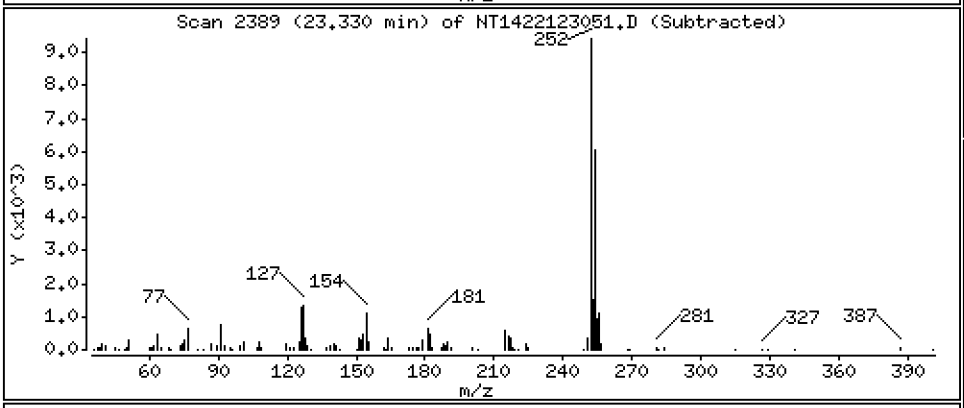
Column diameter: 0.25

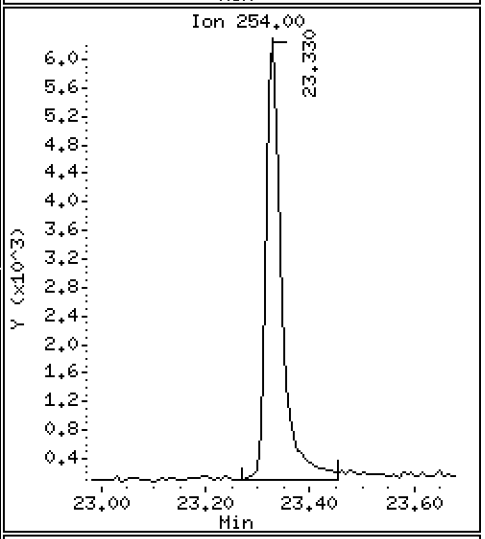
70 3,3'-Dichlorobenzidine

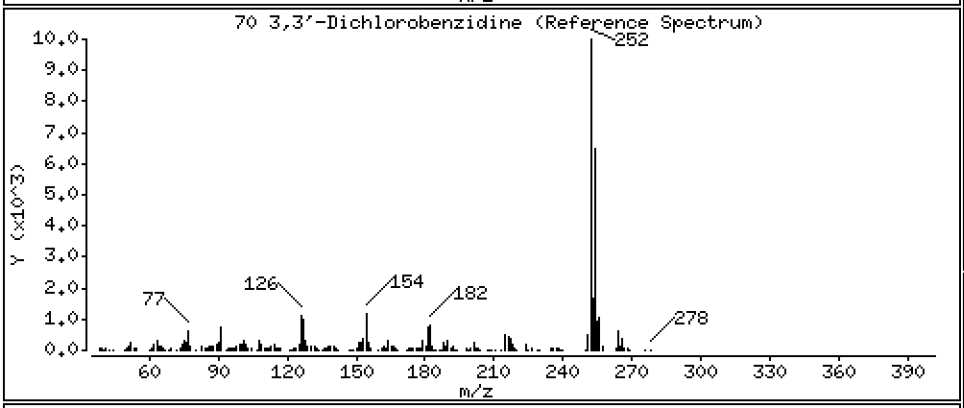
Concentration: 0.6962 ug/mL

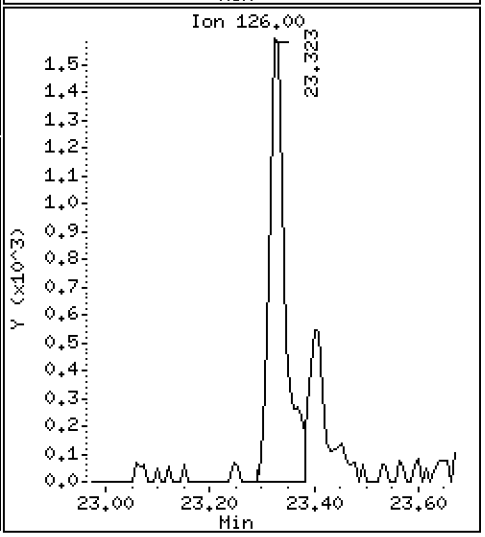


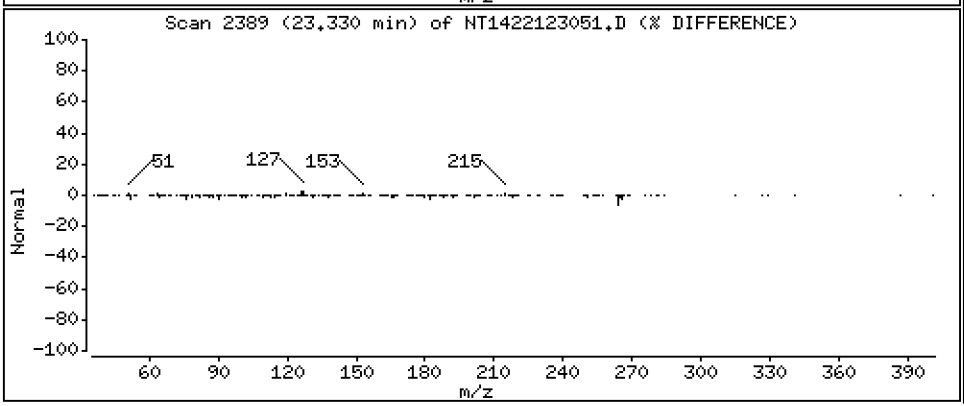












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

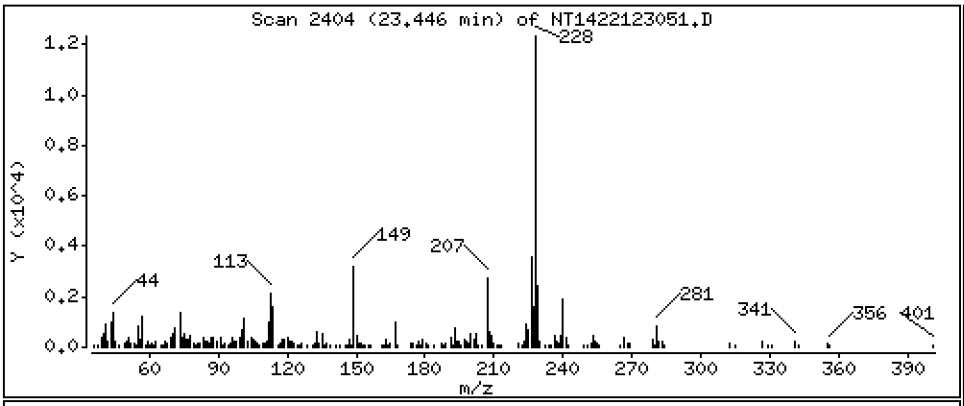
Operator: VTS

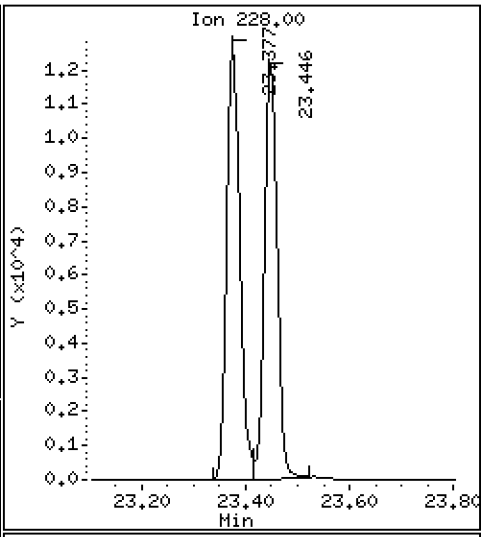
Column phase: ZB-5msi

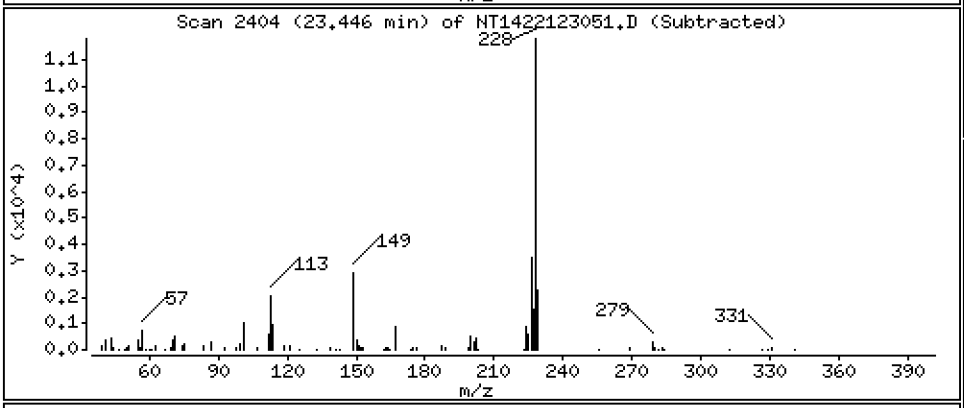
Column diameter: 0.25

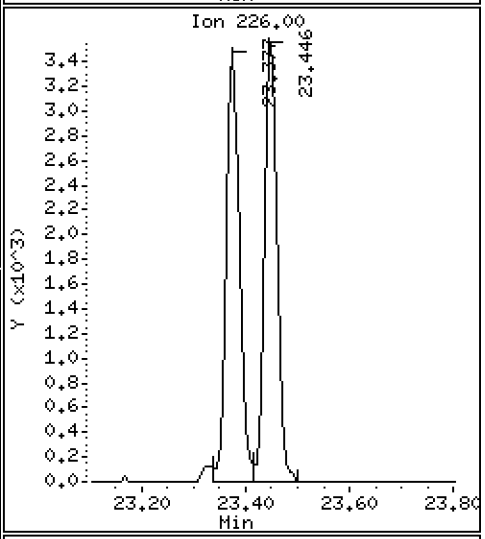
71 Chrysene

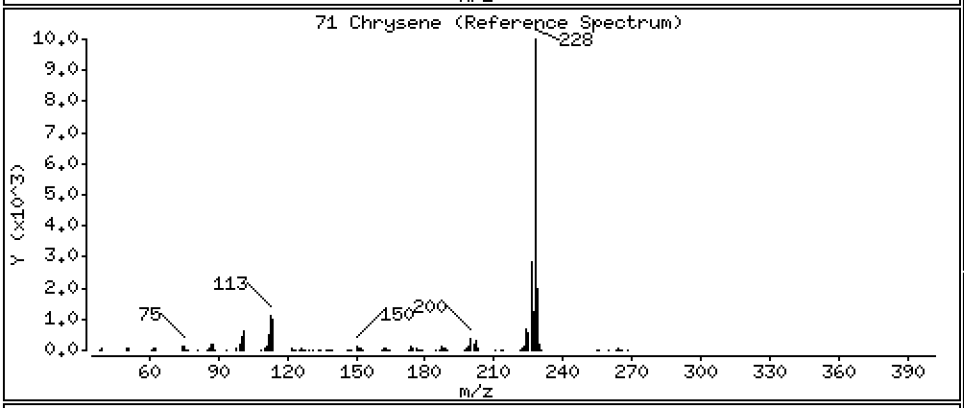
Concentration: 0.2414 ug/mL

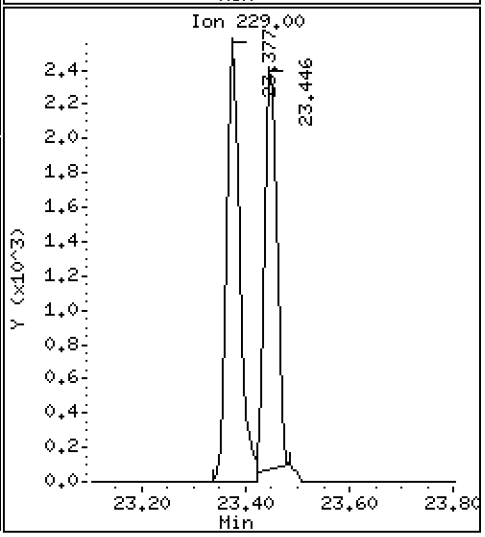


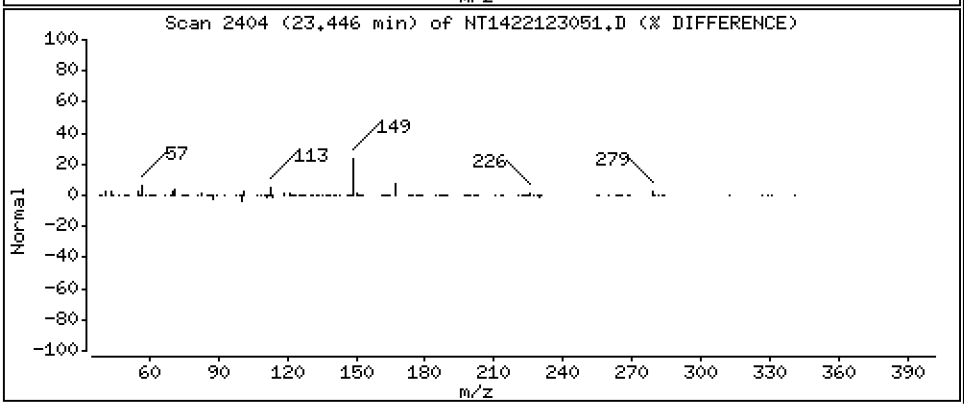












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

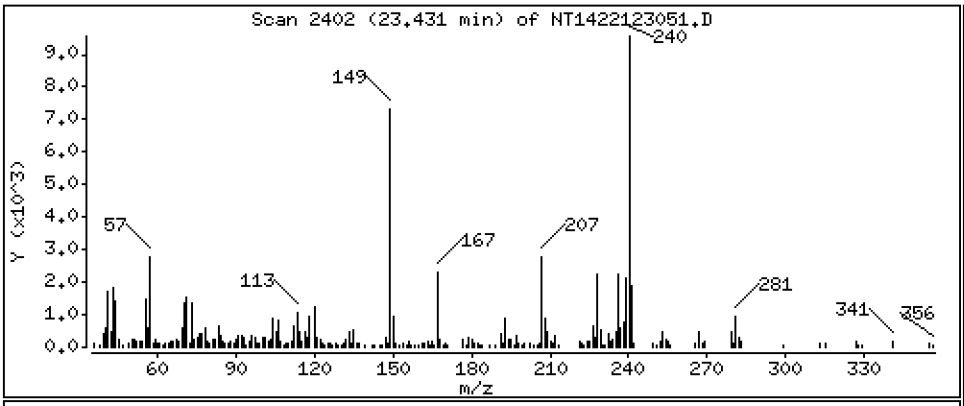
Operator: VTS

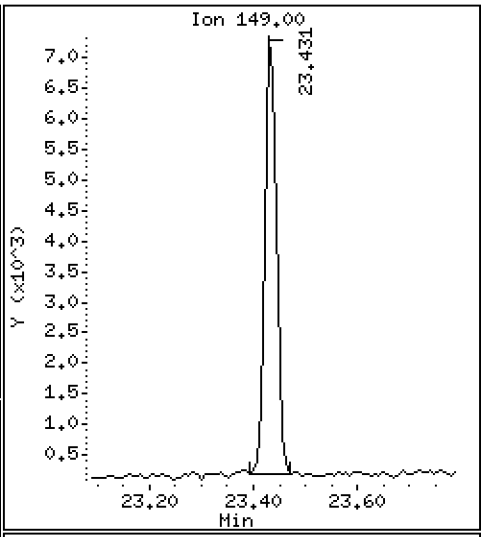
Column phase: ZB-5msi

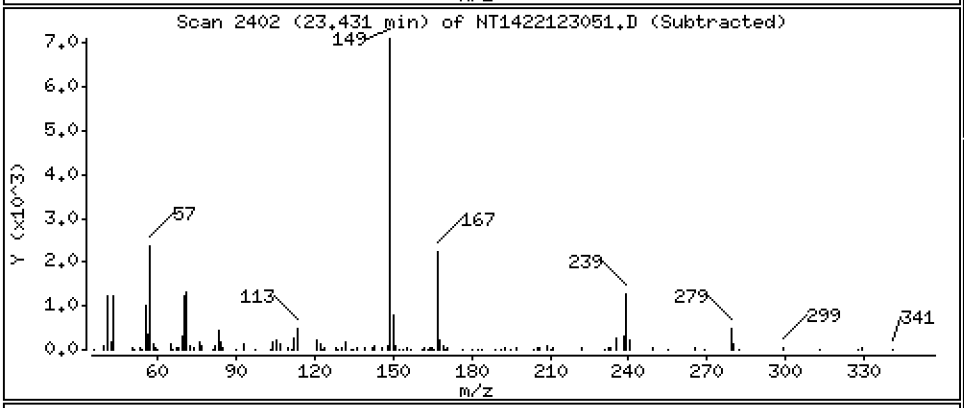
Column diameter: 0.25

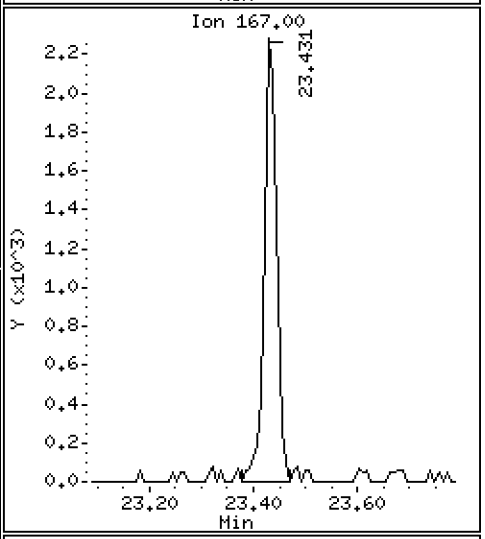
72 bis(2-Ethylhexyl)phthalate

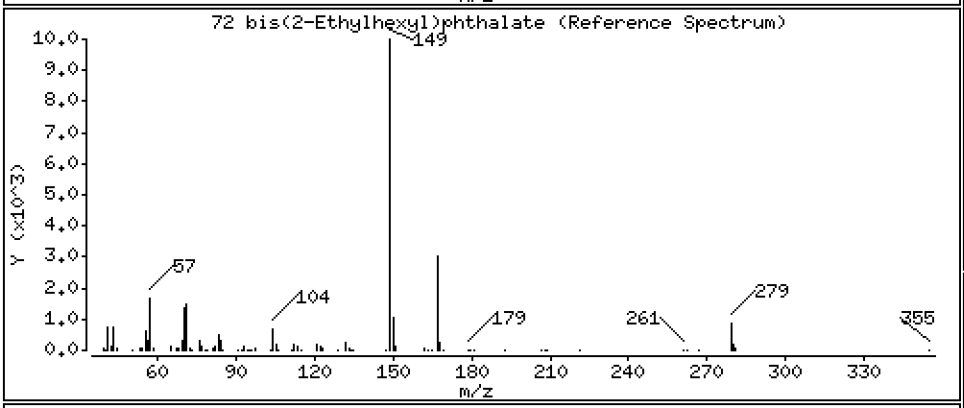
Concentration: 0.2185 ug/mL

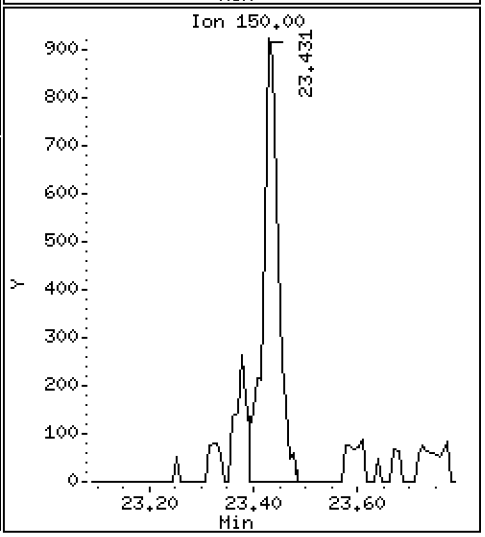


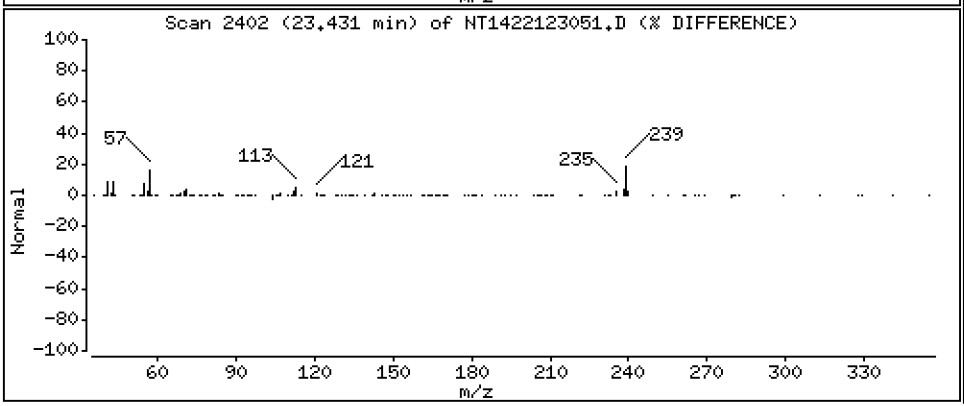












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

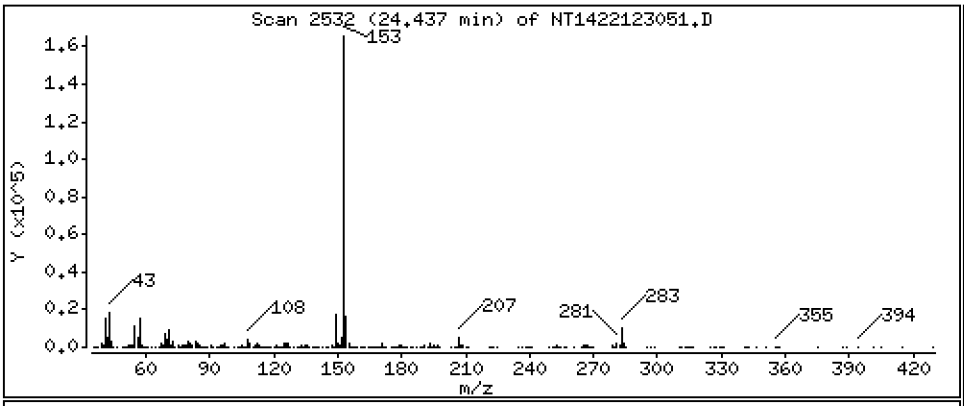
Operator: VTS

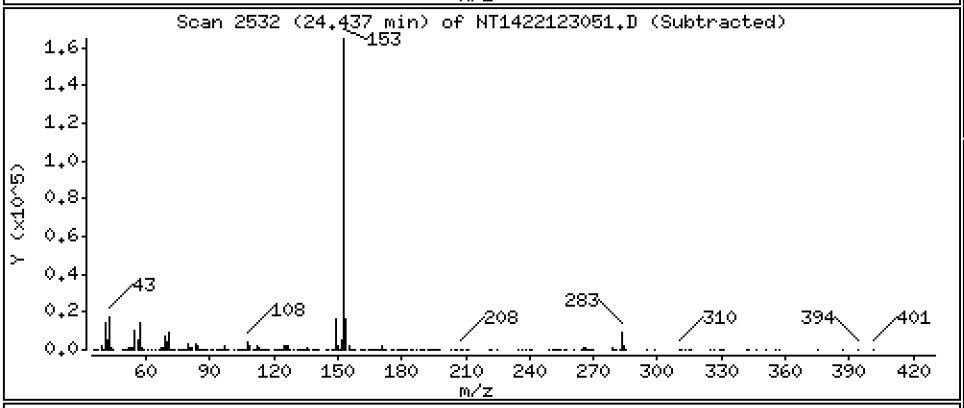
Column phase: ZB-5msi

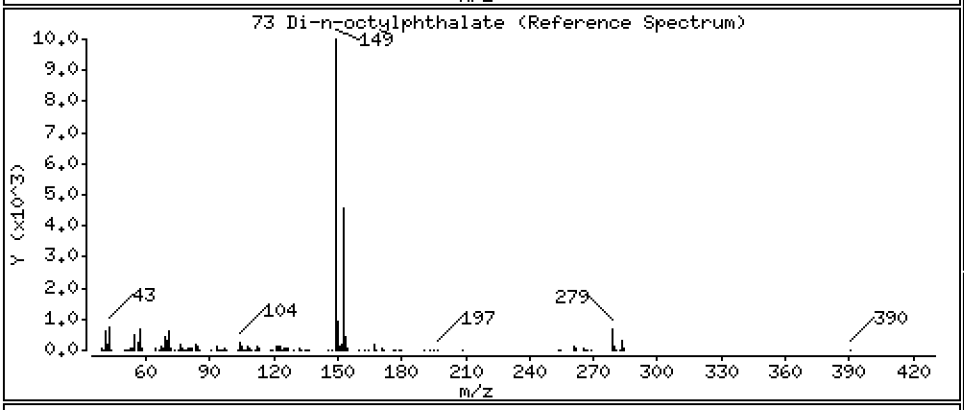
Column diameter: 0.25

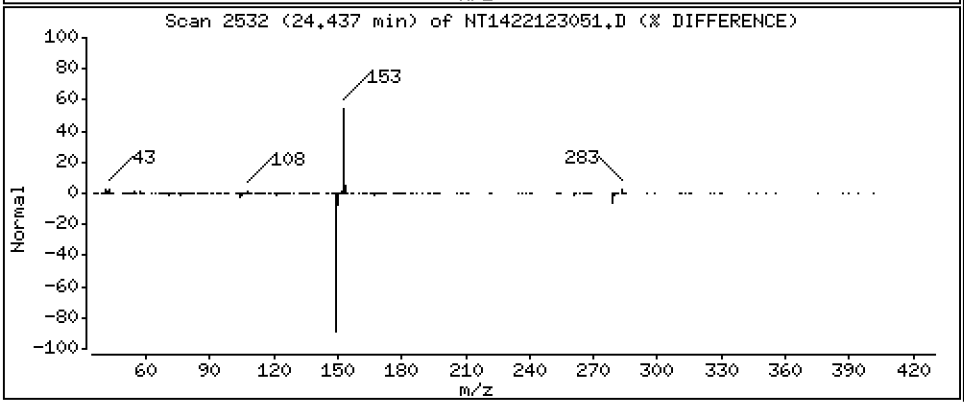
73 Di-n-octylphthalate

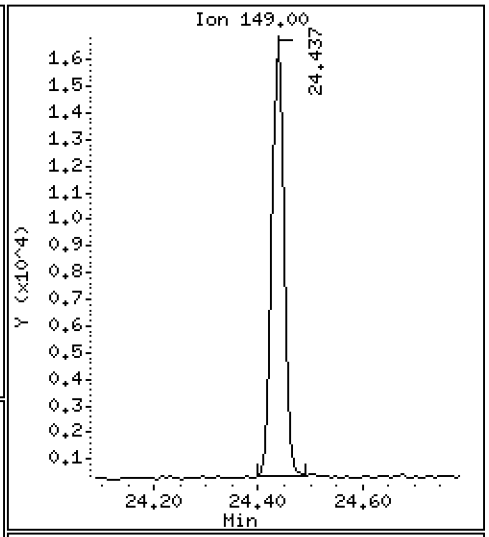
Concentration: 0.2419 ug/mL

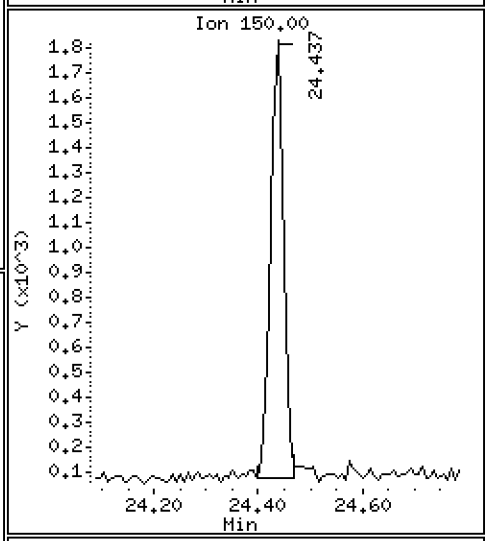


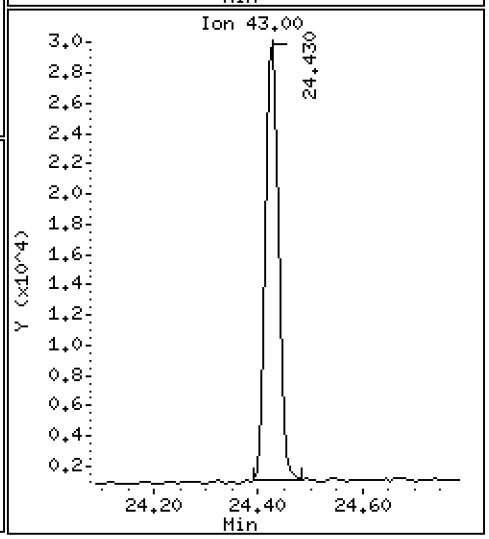












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

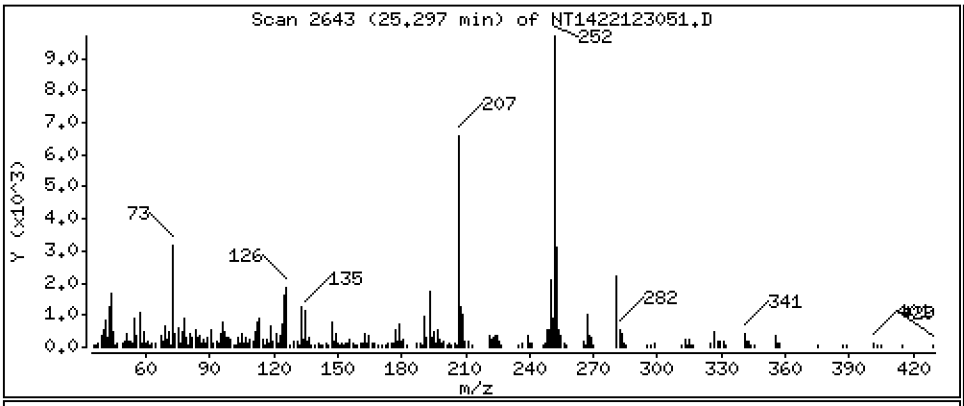
Operator: VTS

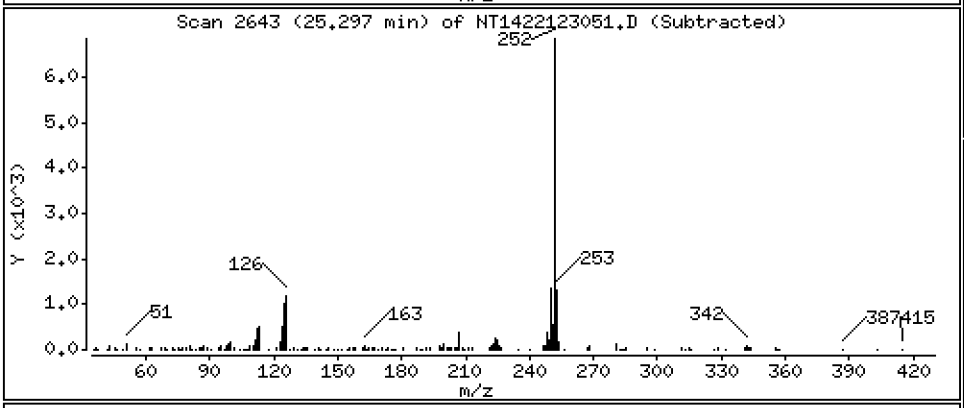
Column phase: ZB-5msi

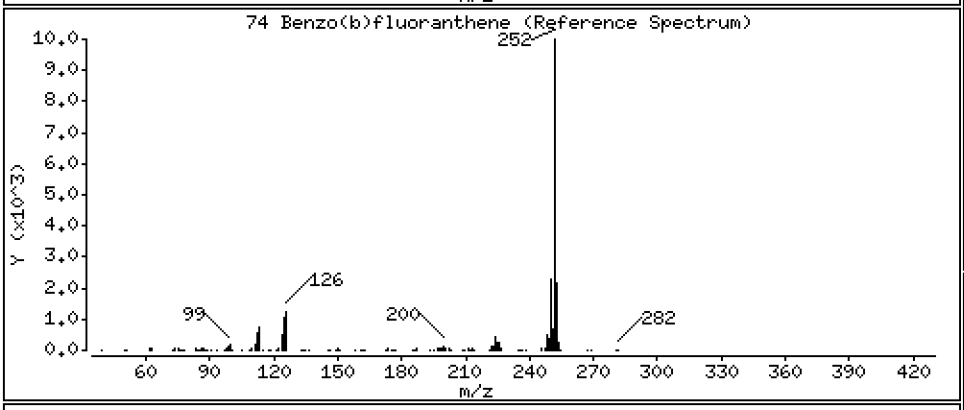
Column diameter: 0.25

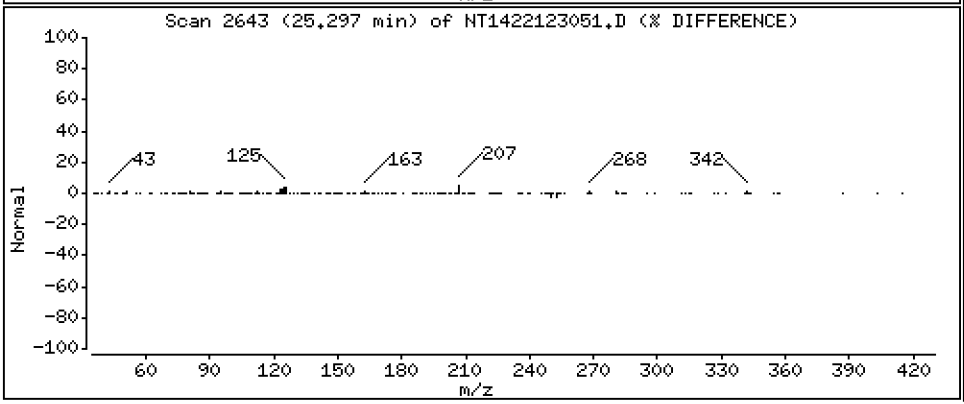
74 Benzo(b)fluoranthene

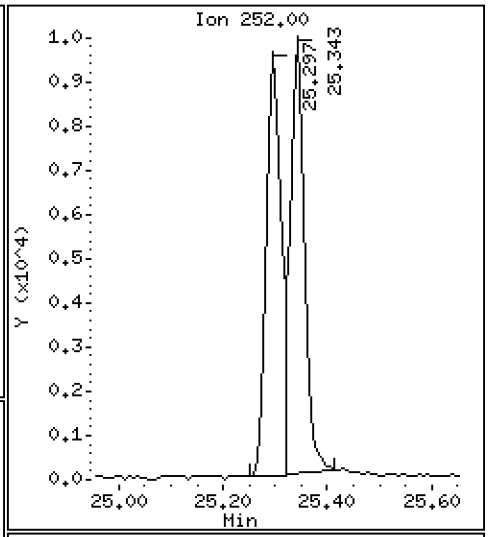
Concentration: 0.2459 ug/mL

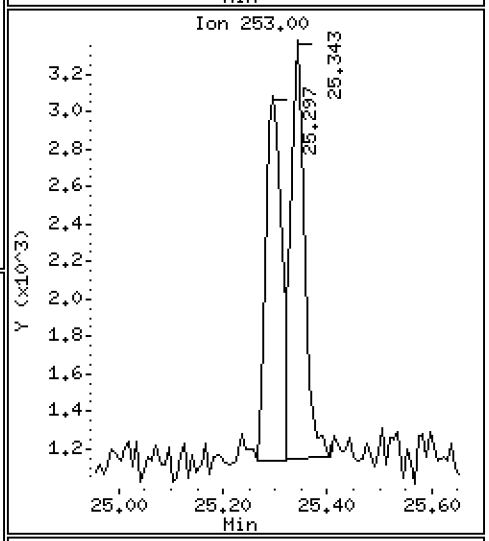


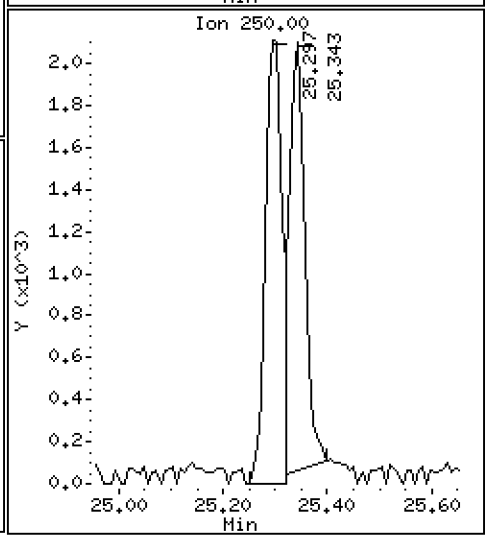












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

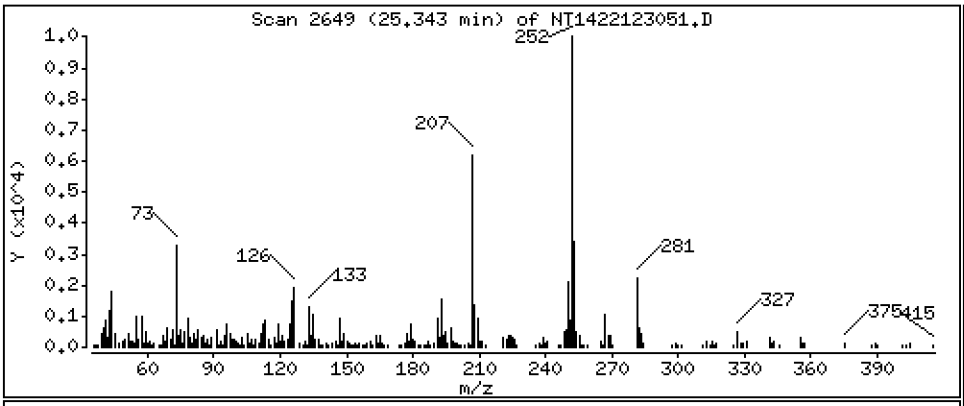
Operator: VTS

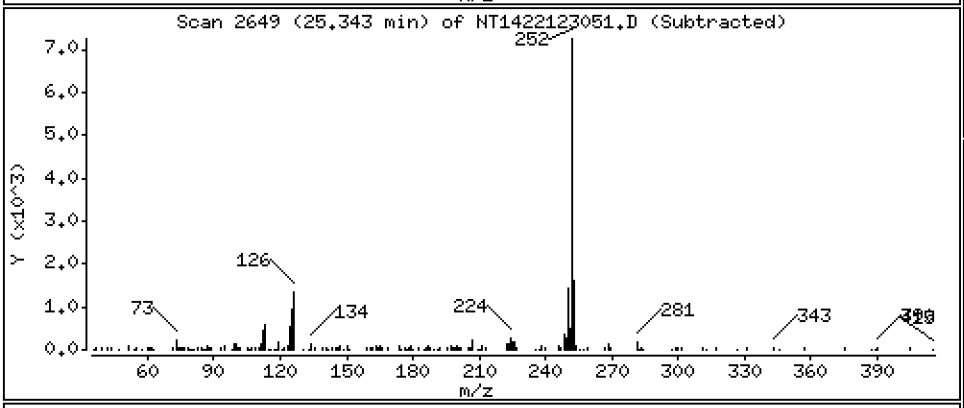
Column phase: ZB-5msi

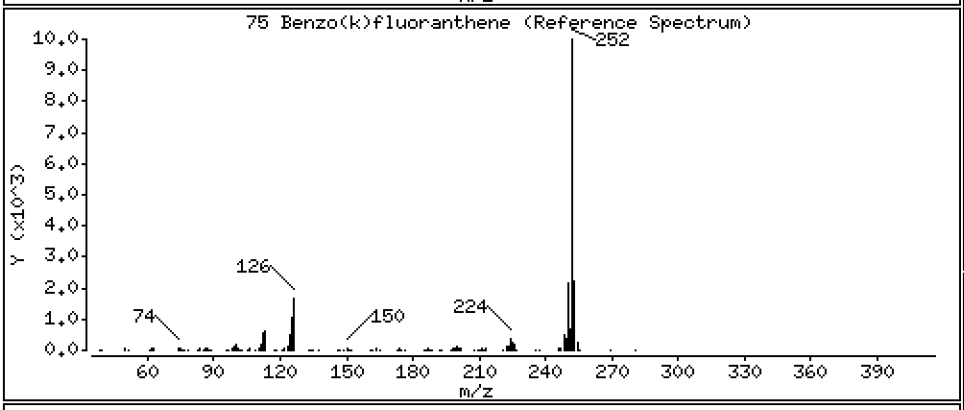
Column diameter: 0.25

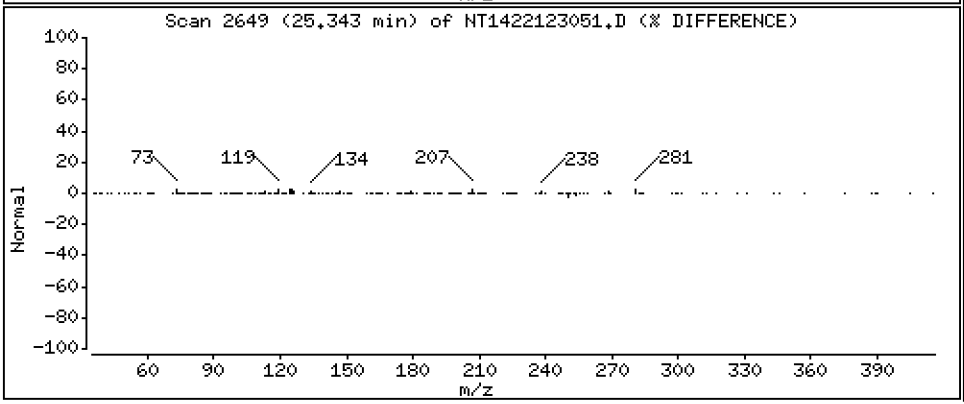
75 Benzo(k)fluoranthene

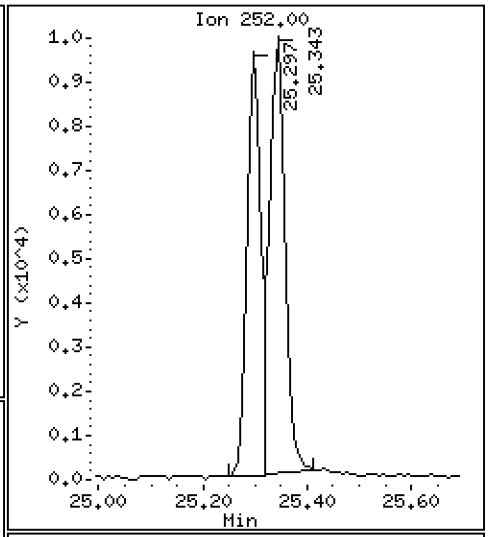
Concentration: 0.2549 ug/mL

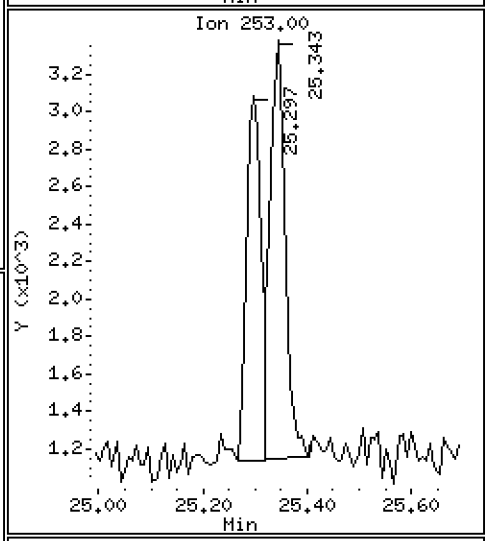


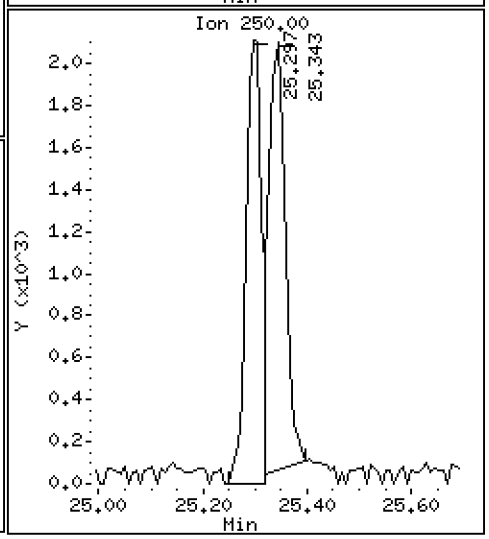












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

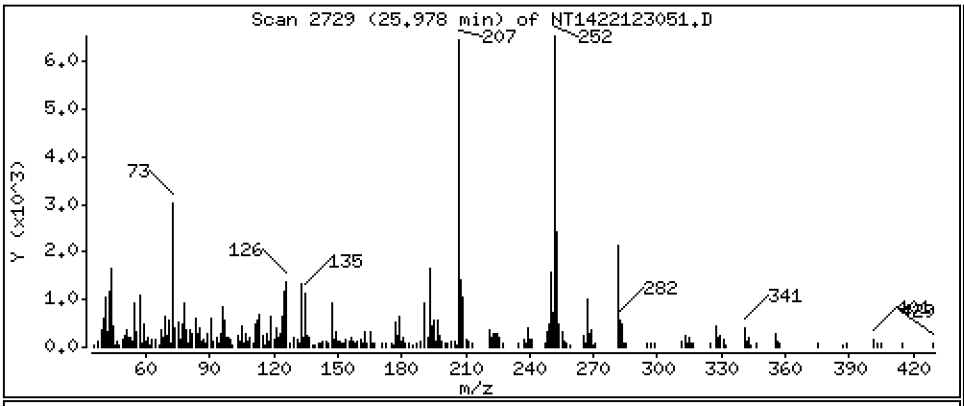
Operator: VTS

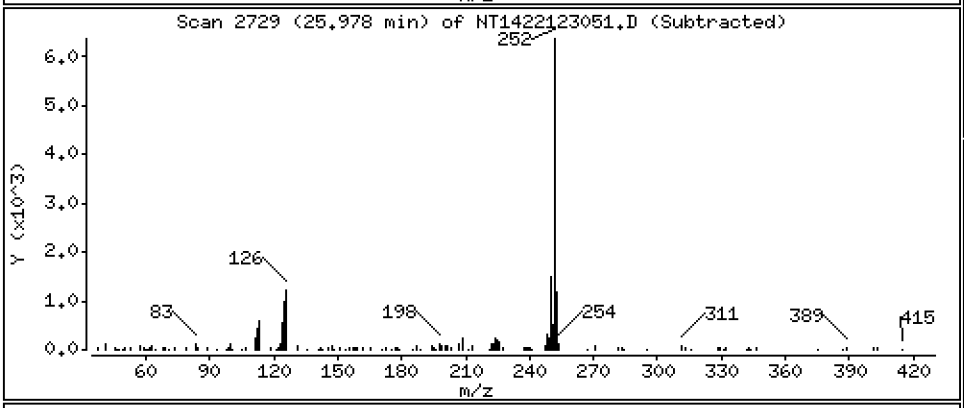
Column phase: ZB-5msi

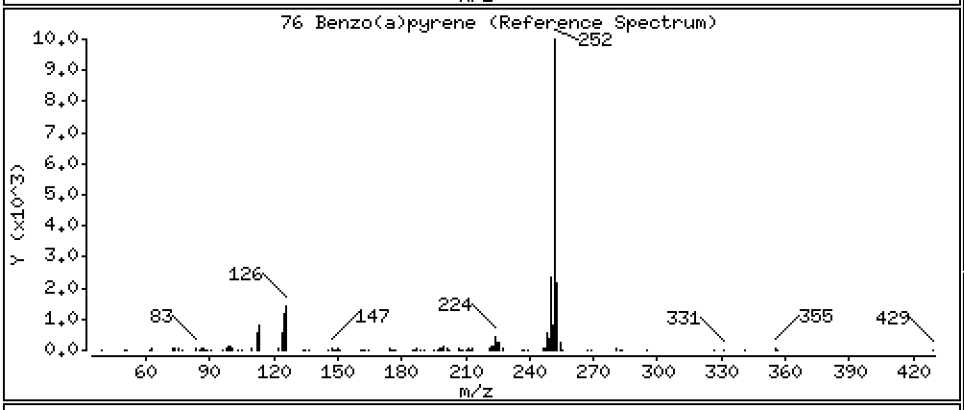
Column diameter: 0.25

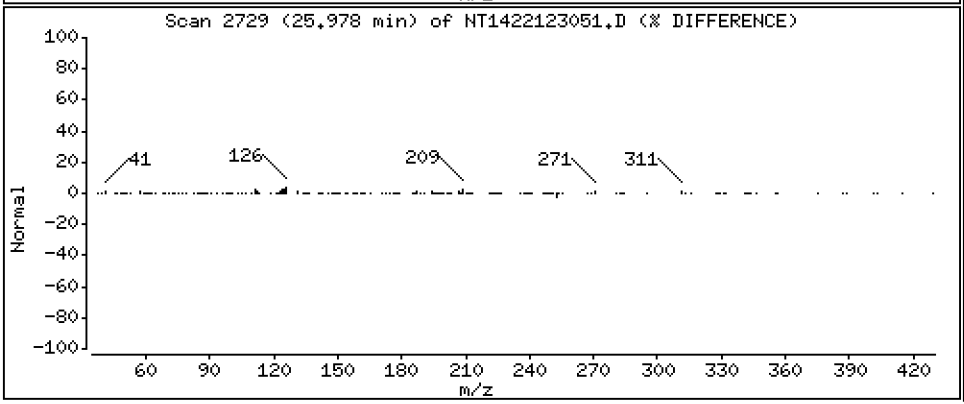
76 Benzo(a)pyrene

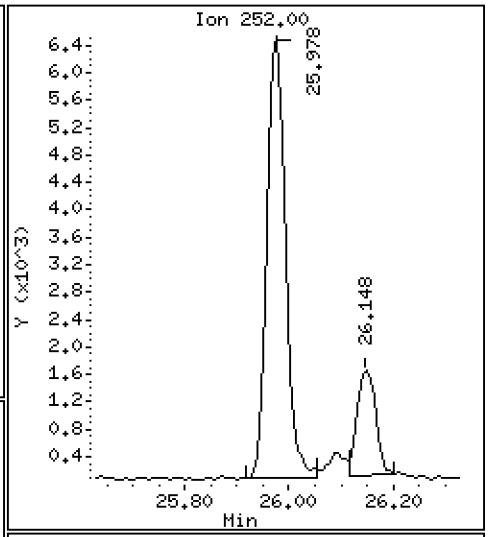
Concentration: 0.2416 ug/mL

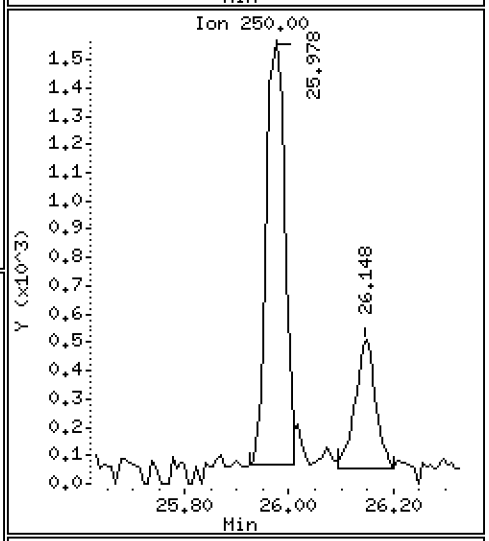


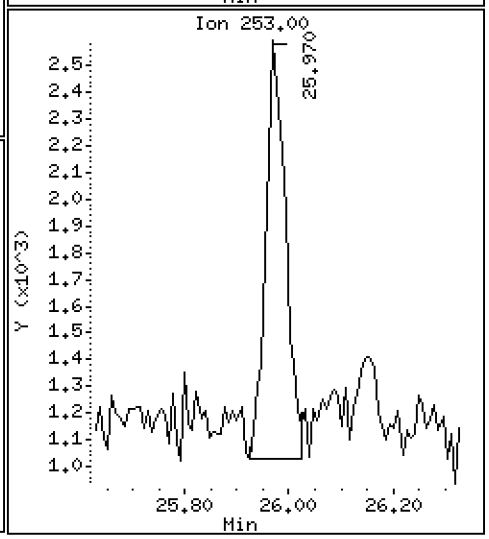












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

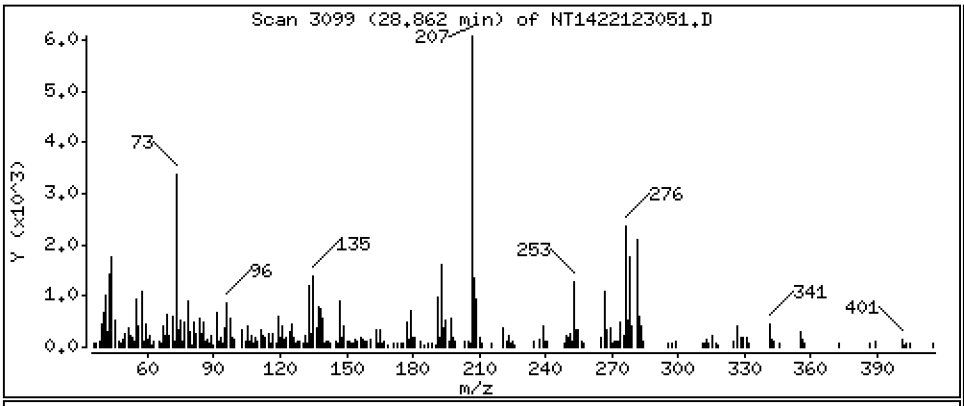
Operator: VTS

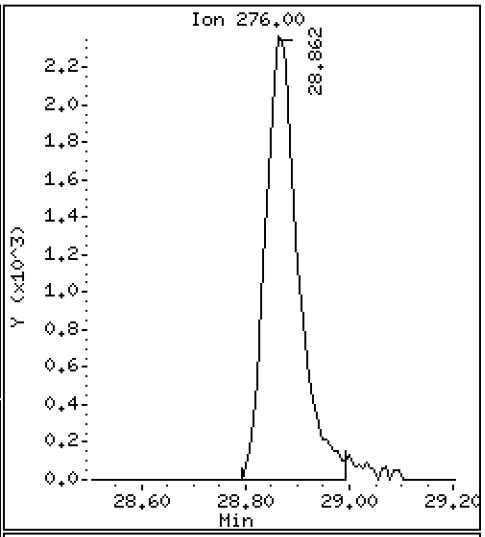
Column phase: ZB-5msi

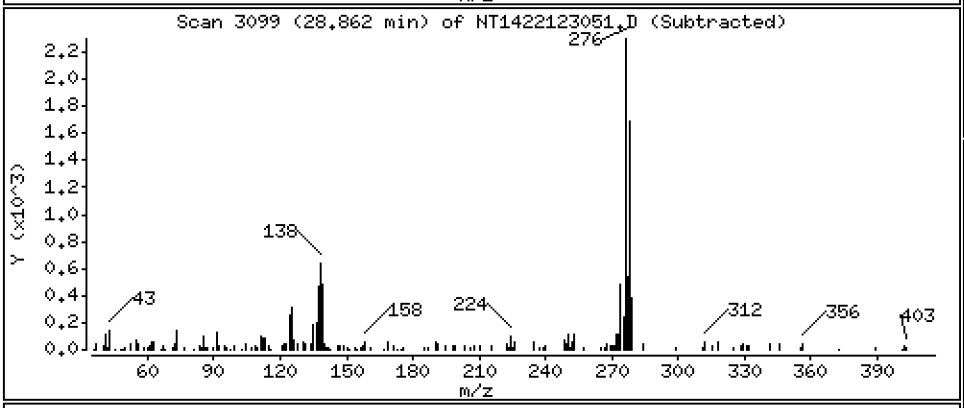
Column diameter: 0.25

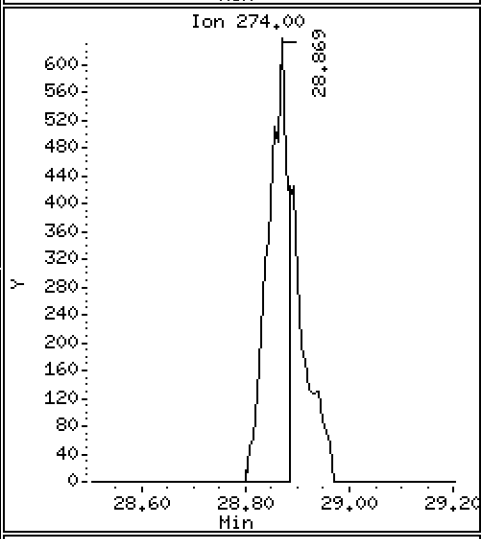
78 Indeno(1,2,3-cd)pyrene

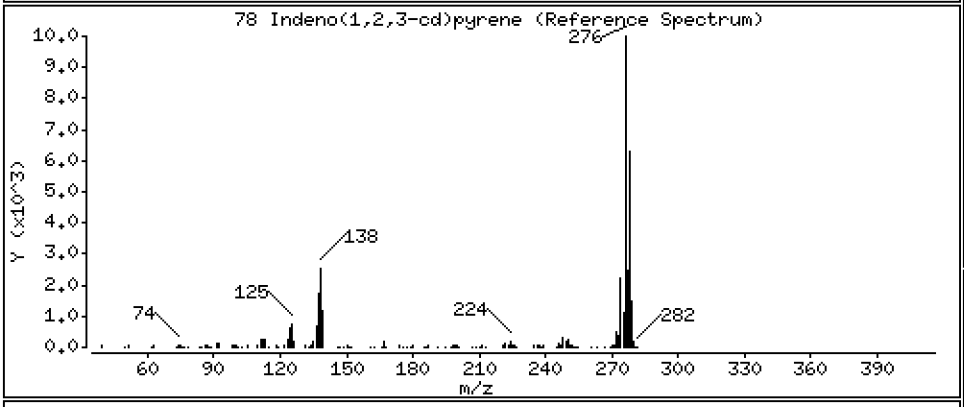
Concentration: 0.1427 ug/mL

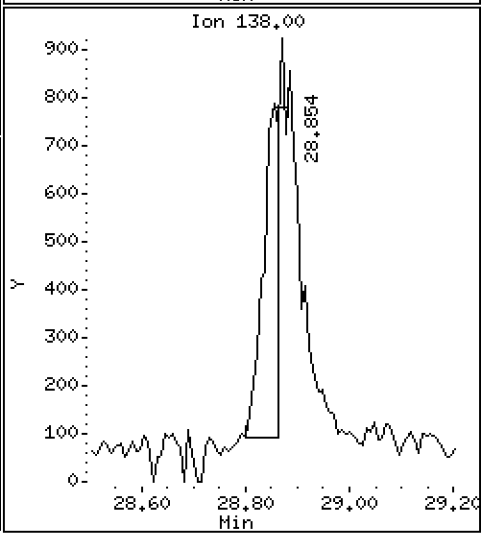


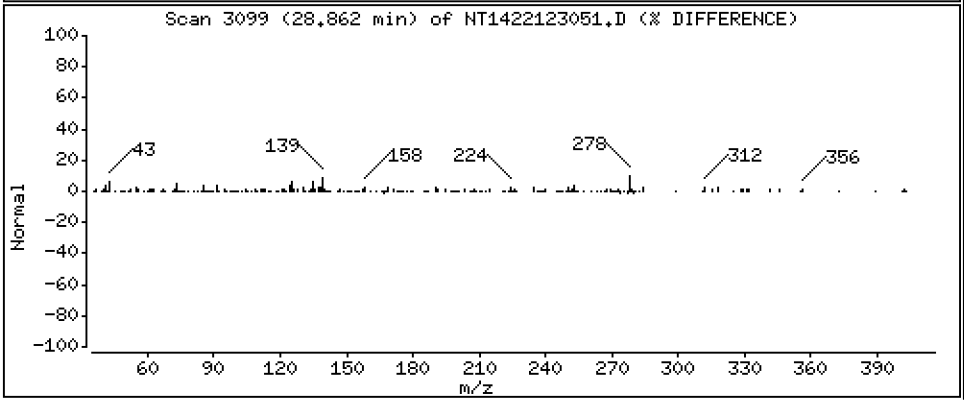












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

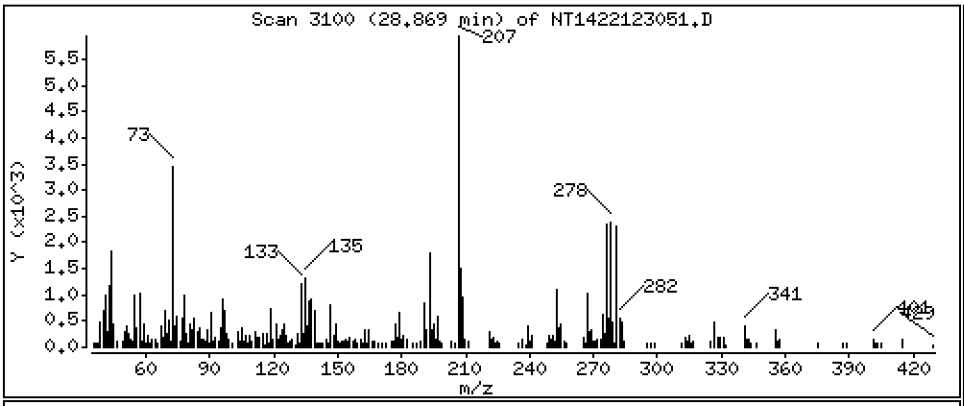
Operator: VTS

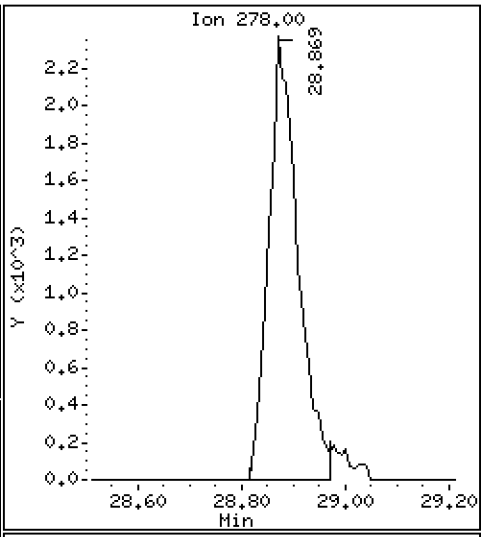
Column phase: ZB-5msi

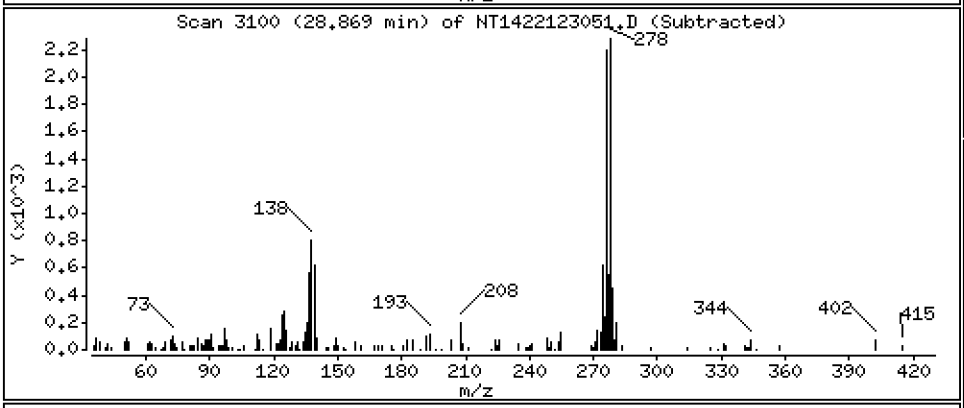
Column diameter: 0.25

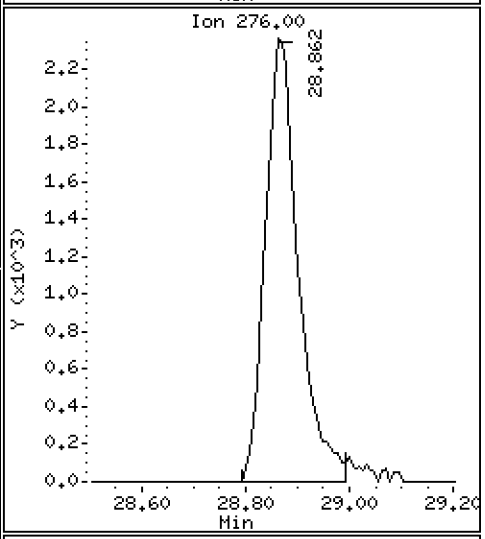
79 Dibenzo(a,h)anthracene

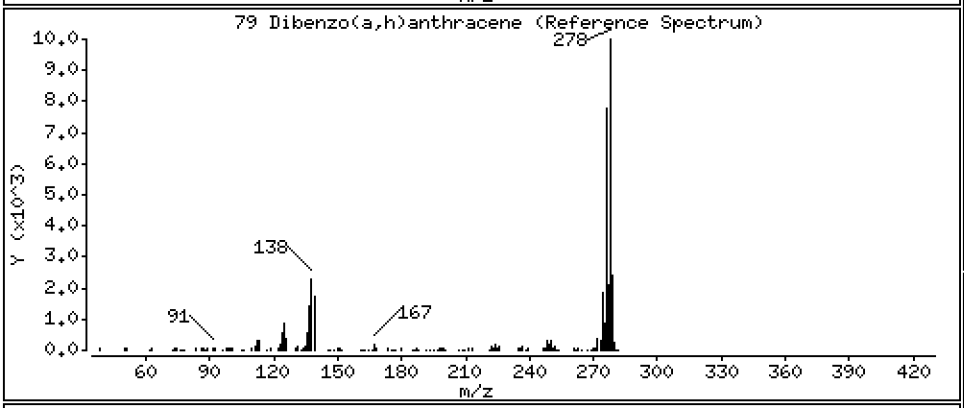
Concentration: 0.1497 ug/mL

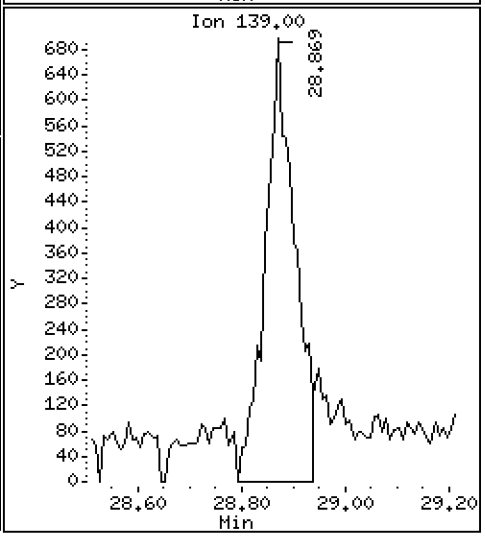


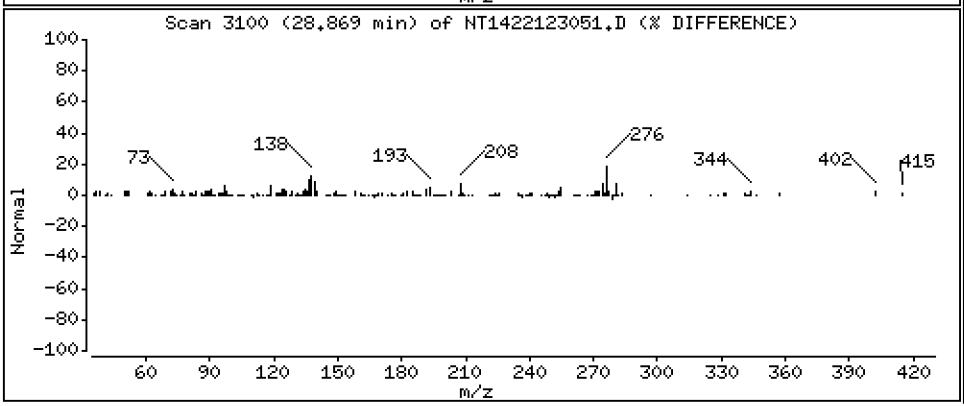












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

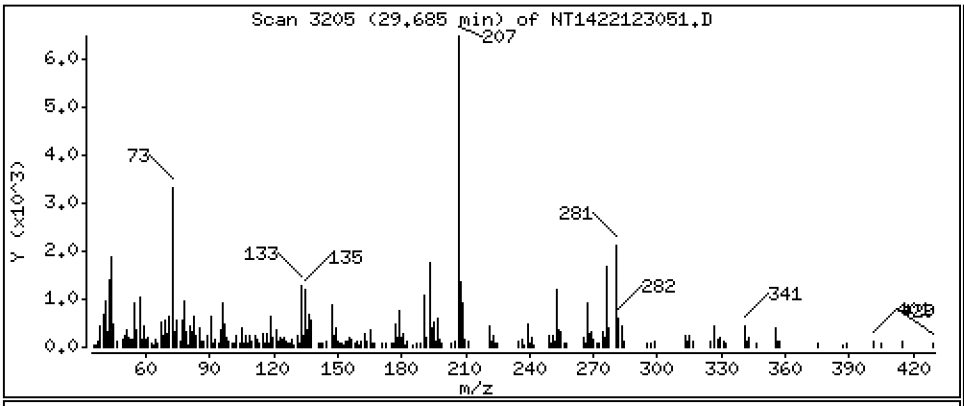
Operator: VTS

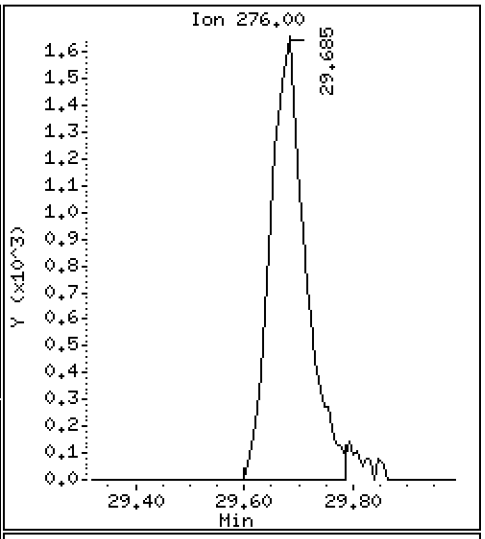
Column phase: ZB-5msi

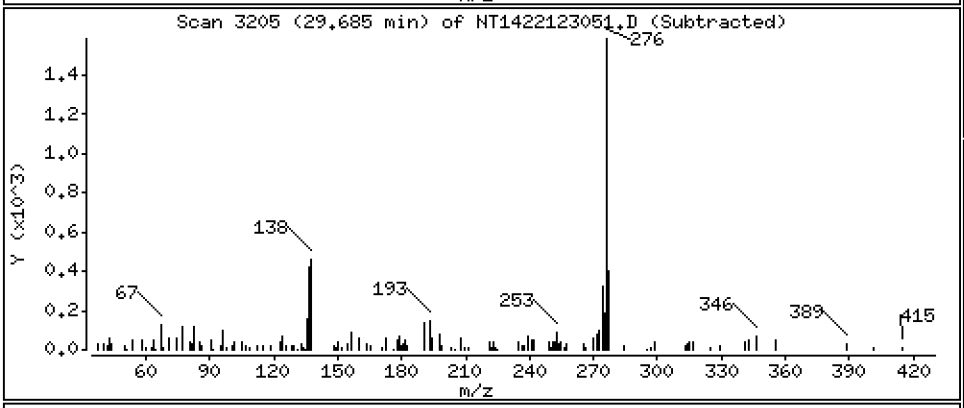
Column diameter: 0.25

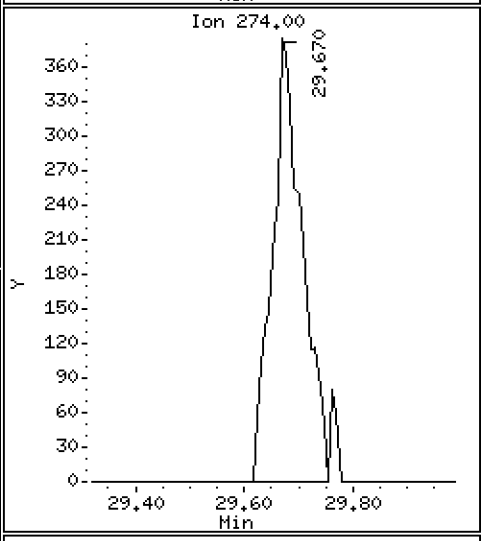
80 Benzo(g,h,i)perylene

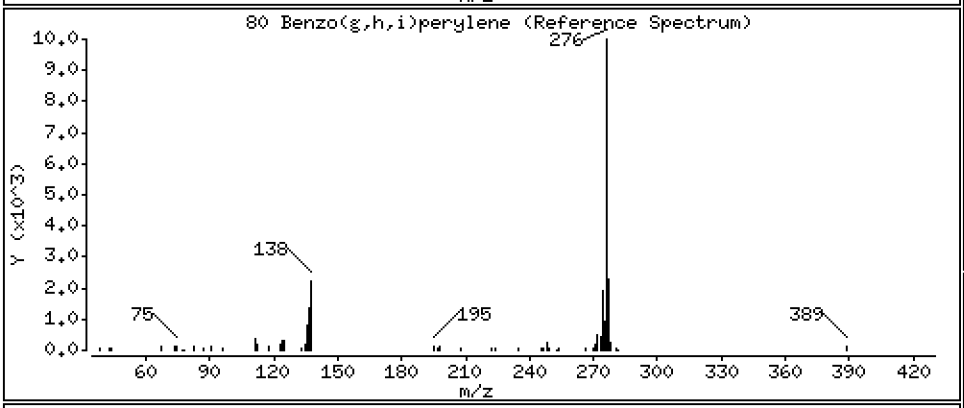
Concentration: 0.1229 ug/mL

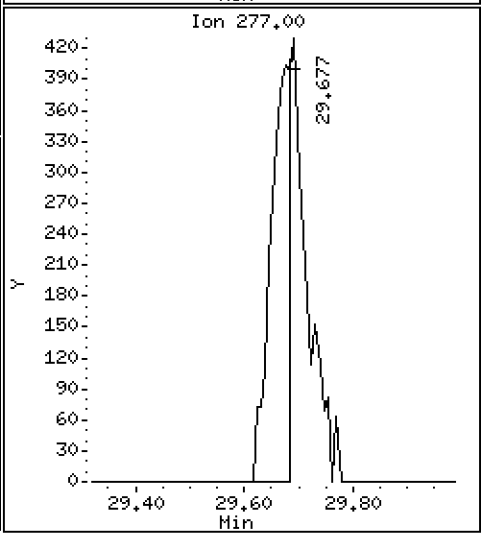


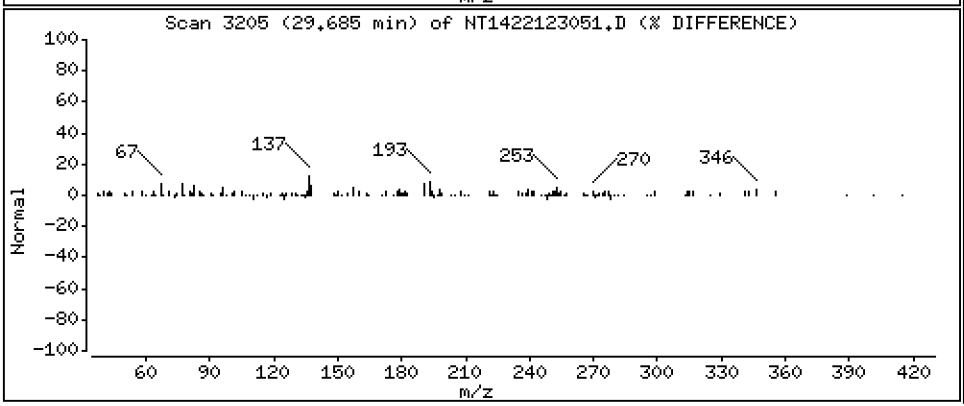












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

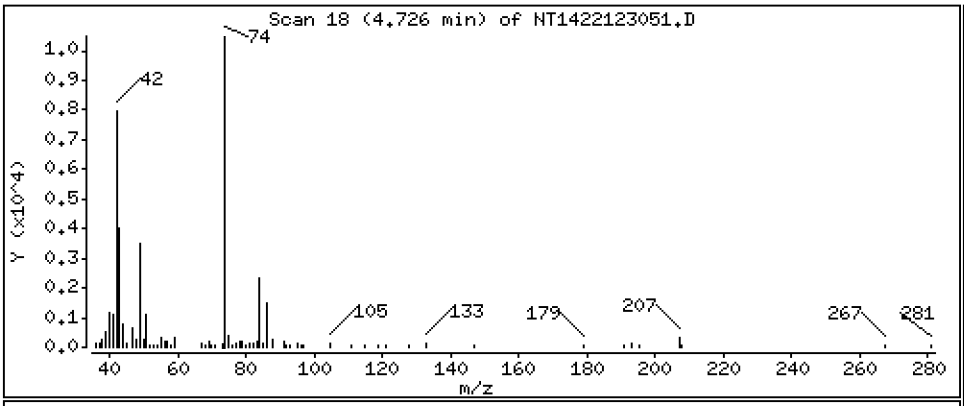
Operator: VTS

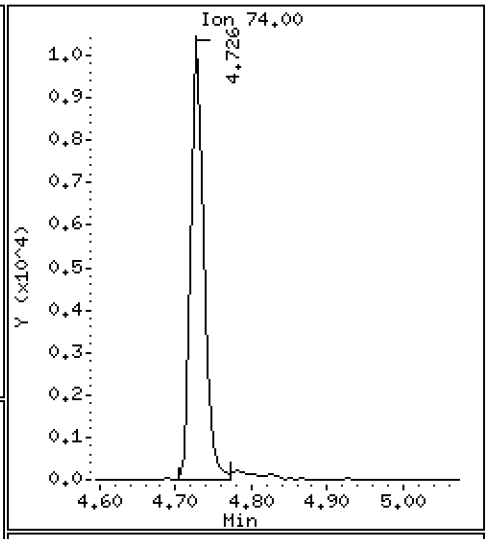
Column phase: ZB-5msi

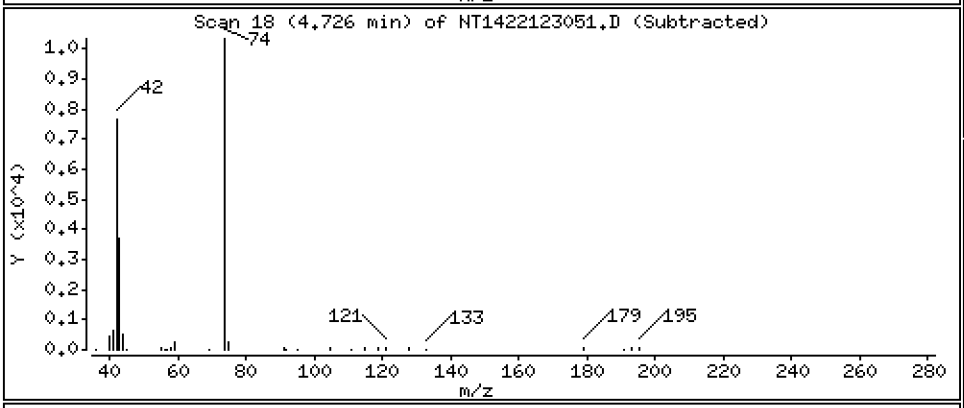
Column diameter: 0.25

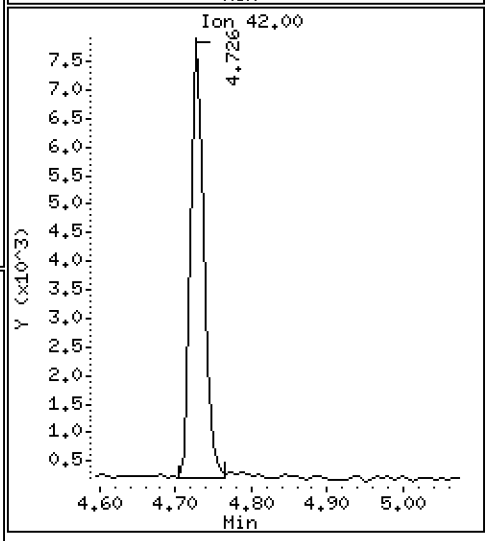
90 N-Nitrosodimethylamine

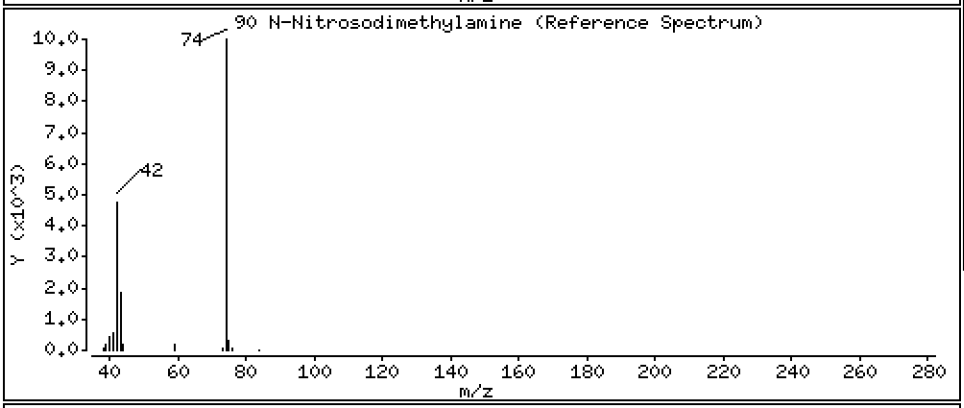
Concentration: 0.4965 ug/mL

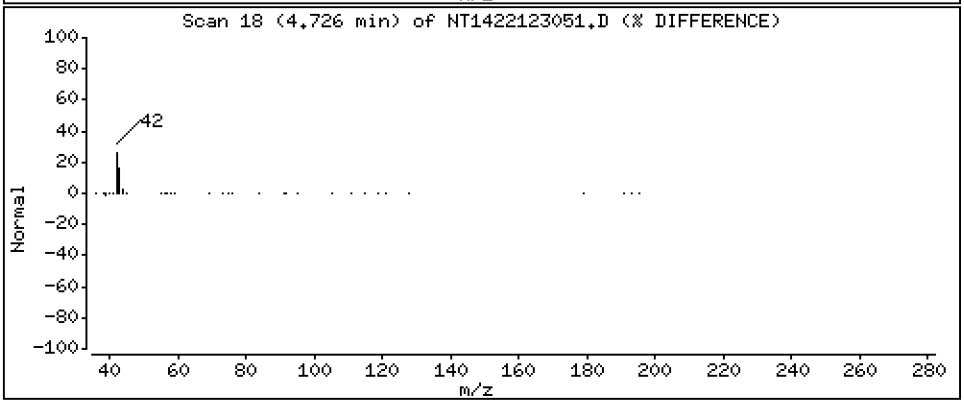












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

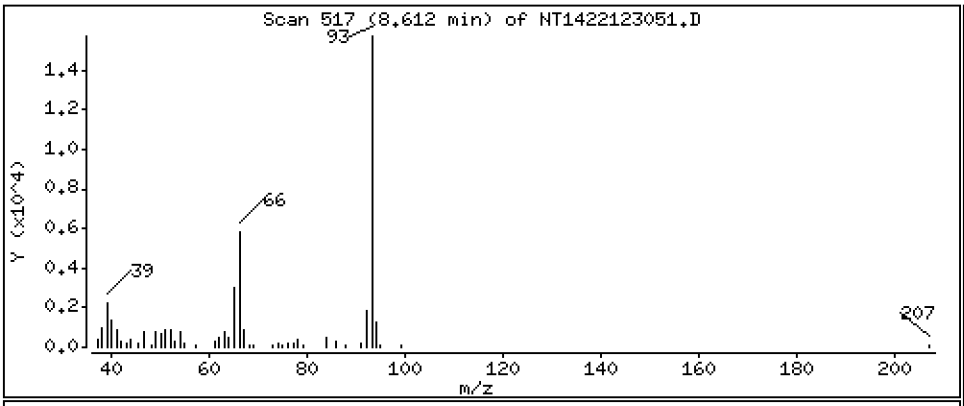
Operator: VTS

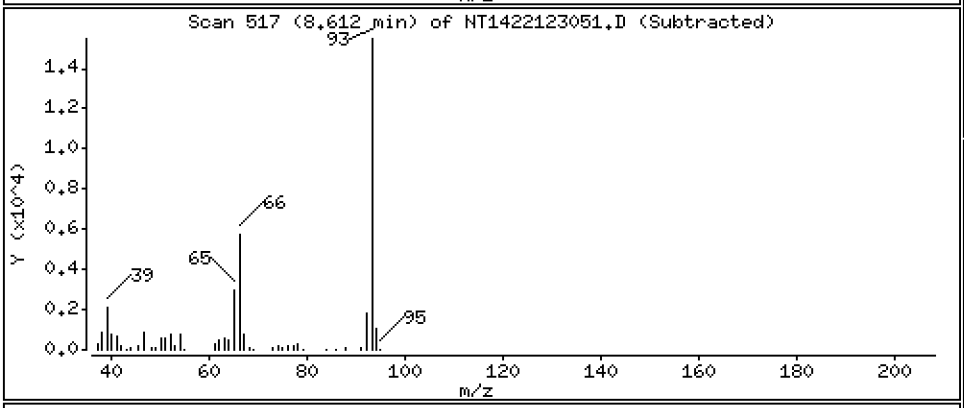
Column phase: ZB-5msi

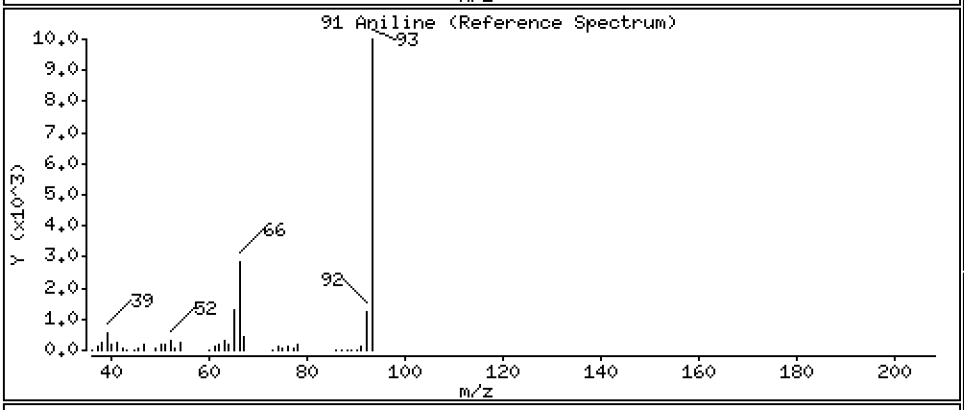
Column diameter: 0.25

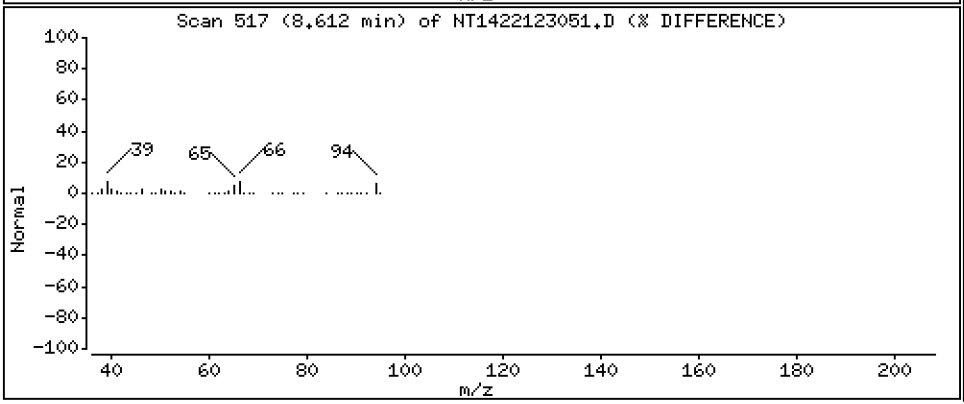
91 Aniline

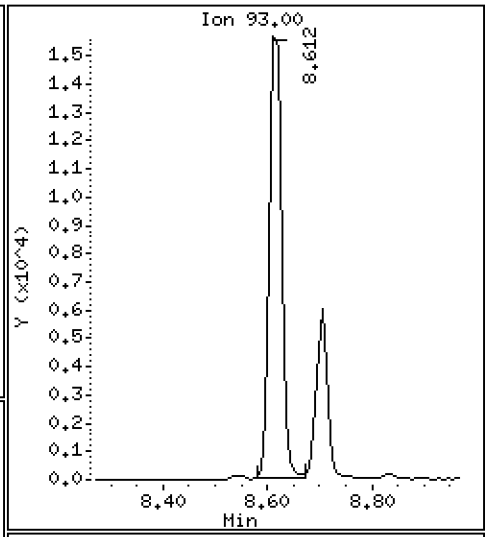
Concentration: 0.4714 ug/mL

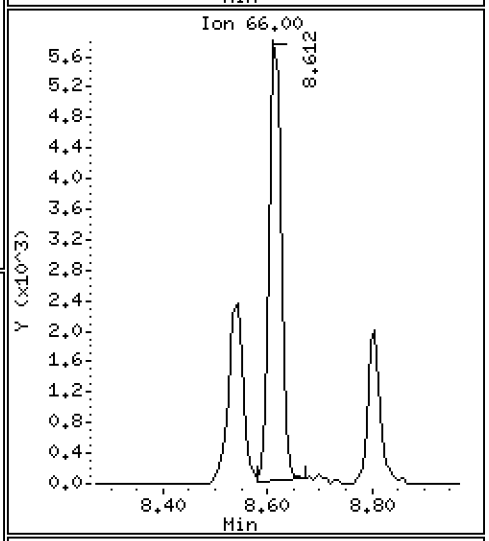


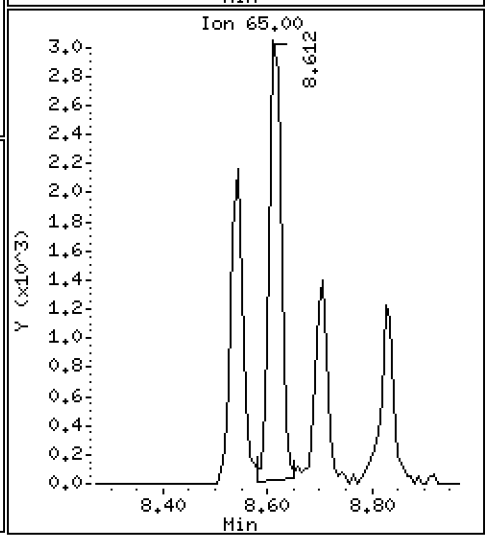












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

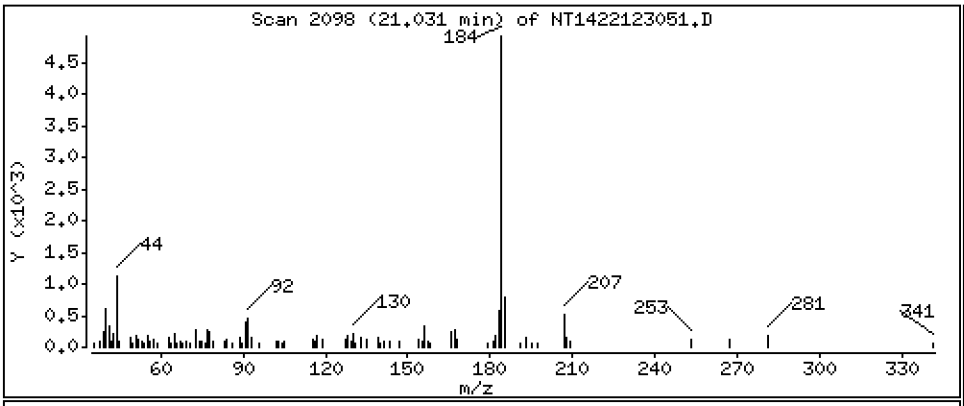
Operator: VTS

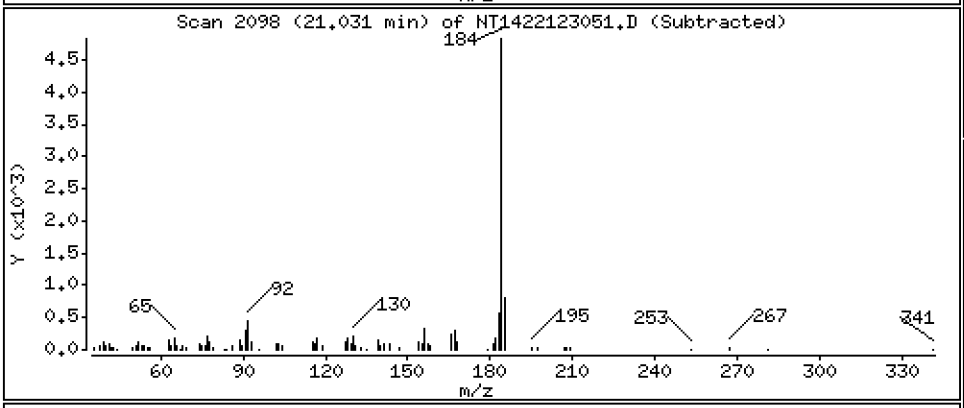
Column phase: ZB-5msi

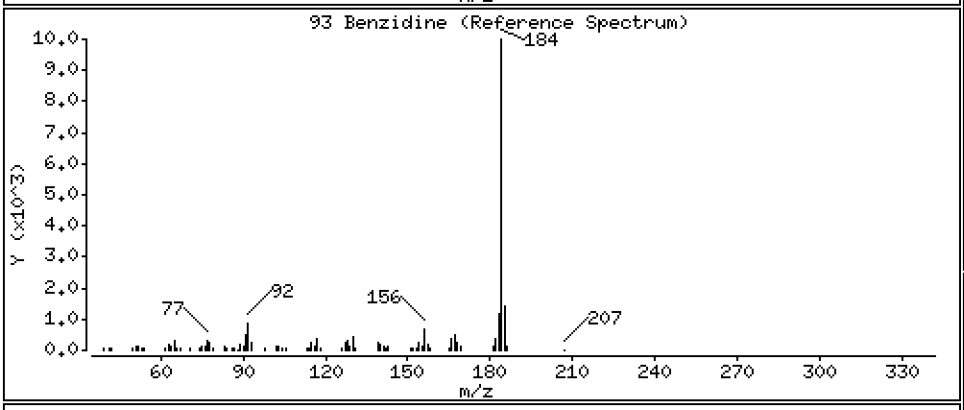
Column diameter: 0.25

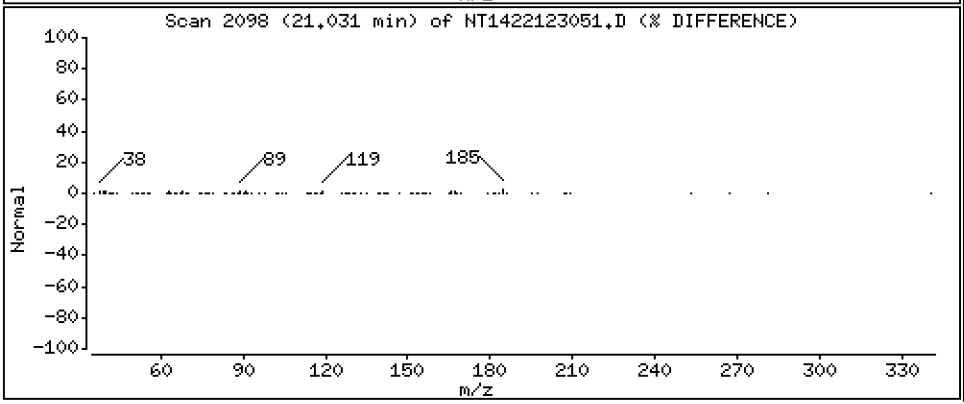
93 Benzidine

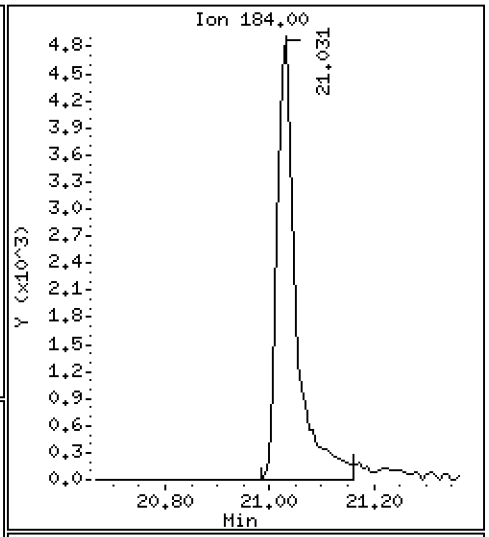
Concentration: 0.3471 ug/mL

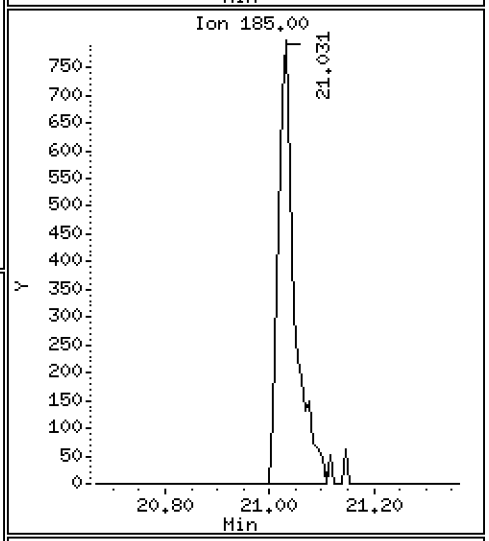


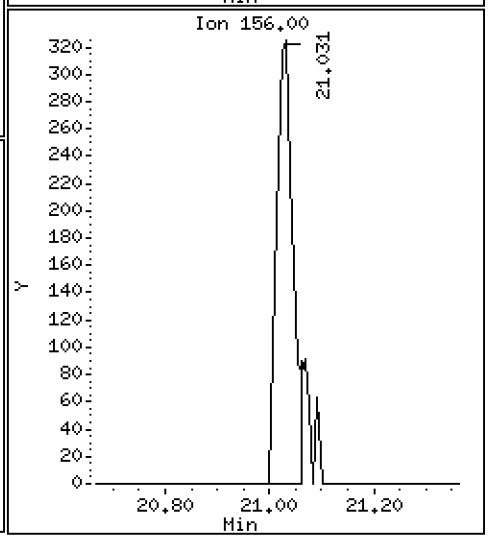












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

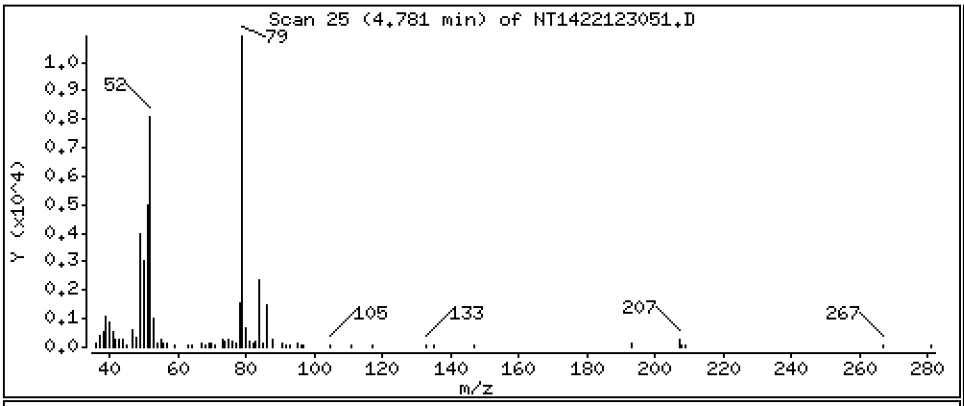
Operator: VTS

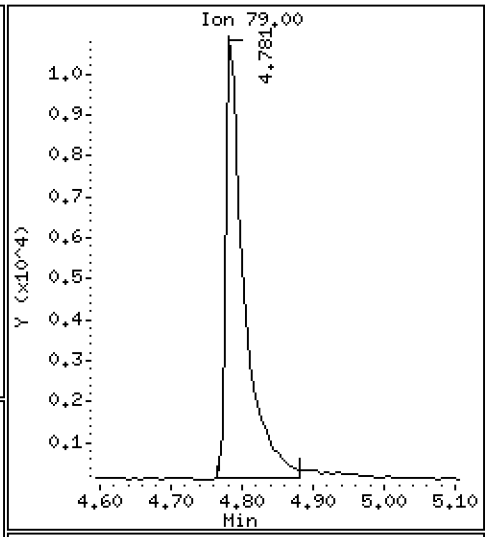
Column phase: ZB-5msi

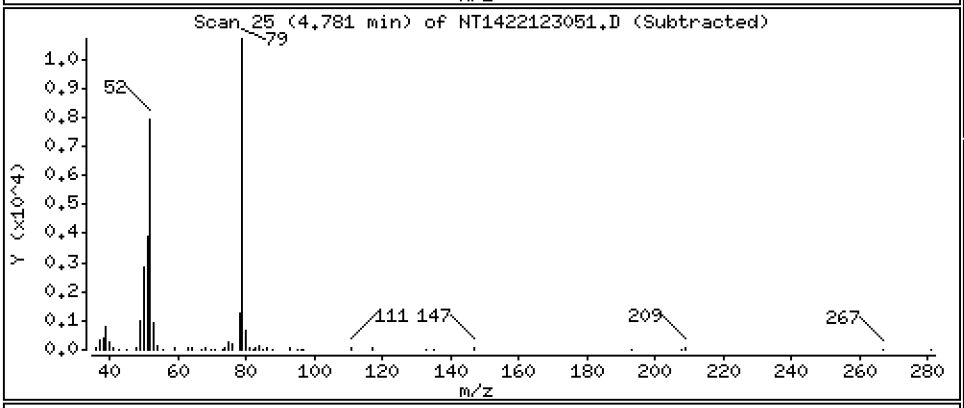
Column diameter: 0.25

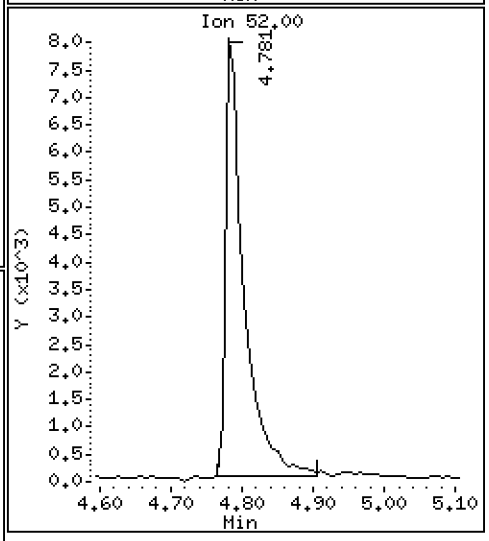
103 Pyridine

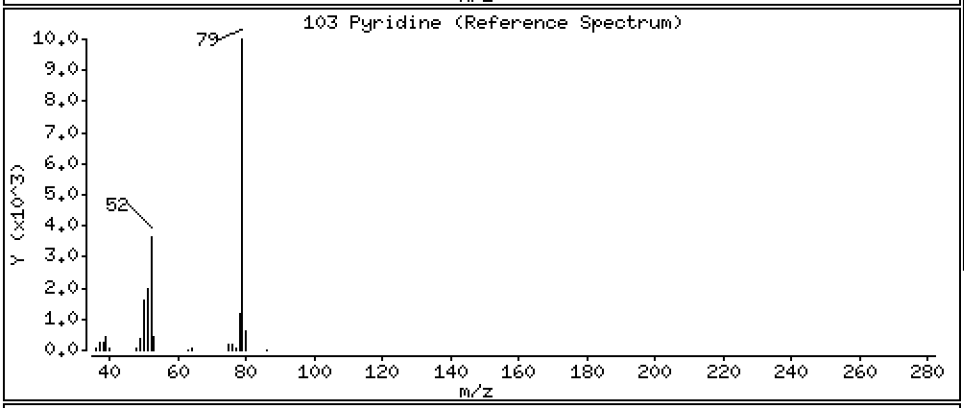
Concentration: 0.2428 ug/mL

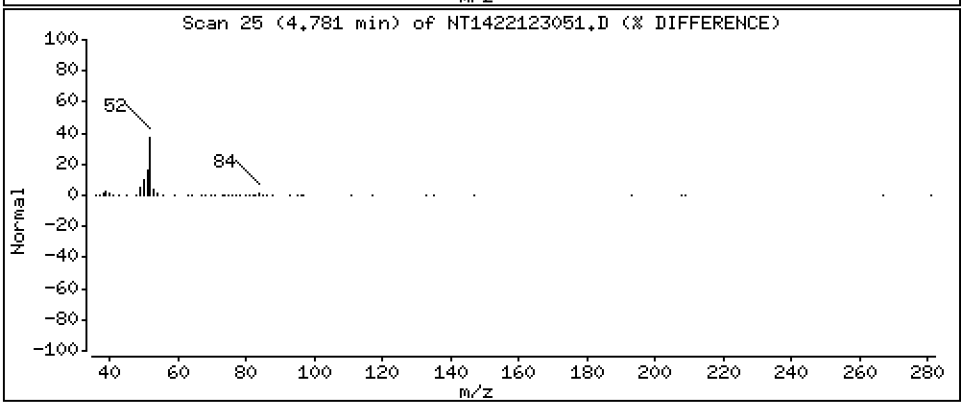












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

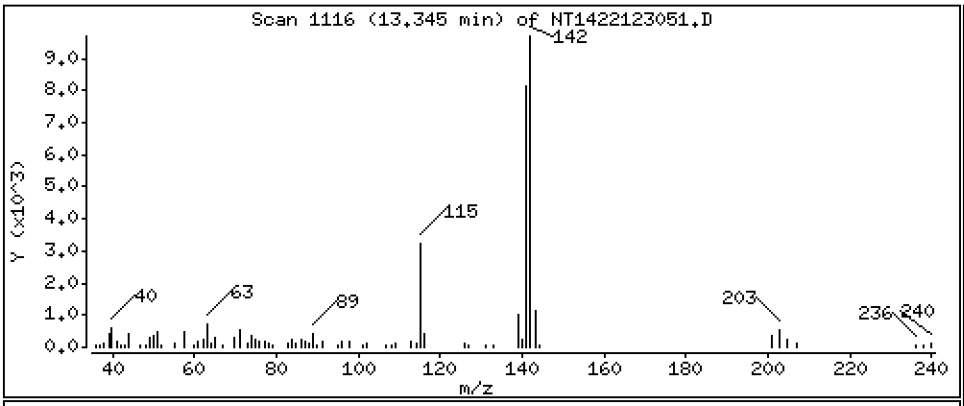
Operator: VTS

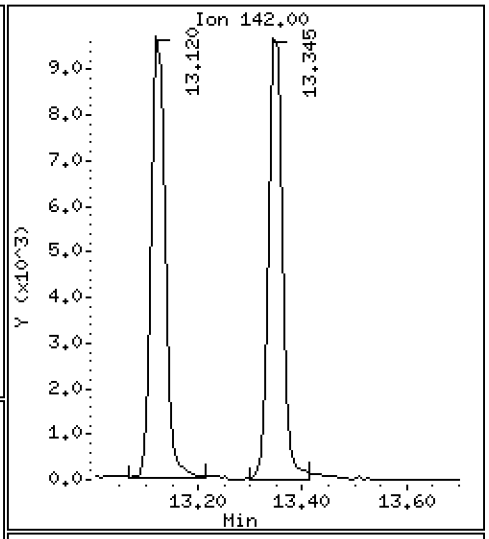
Column phase: ZB-5msi

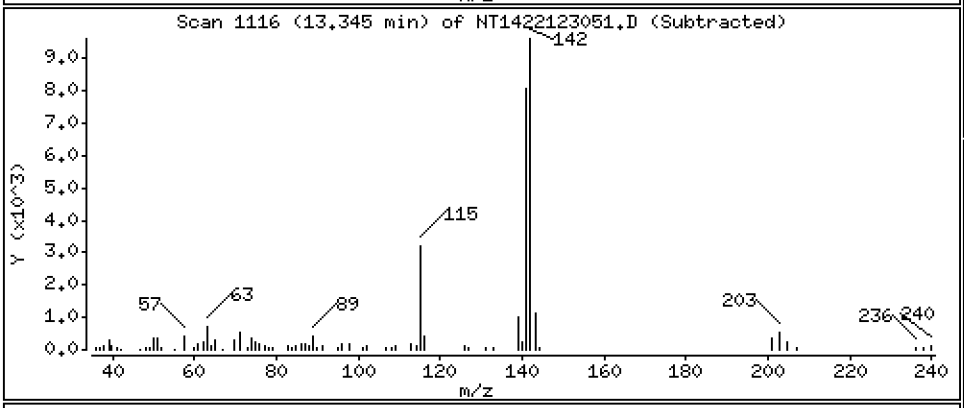
Column diameter: 0.25

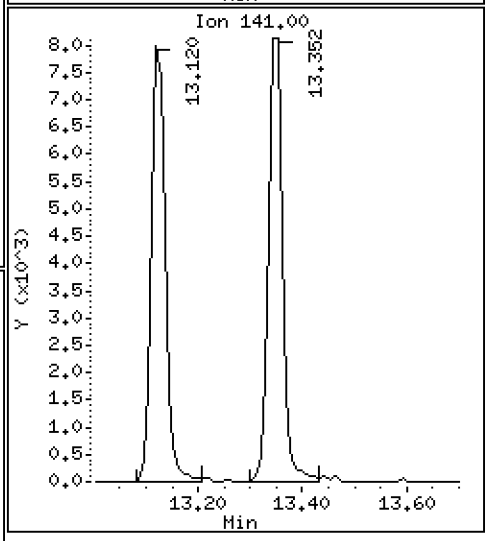
105 1-methylnaphthalene

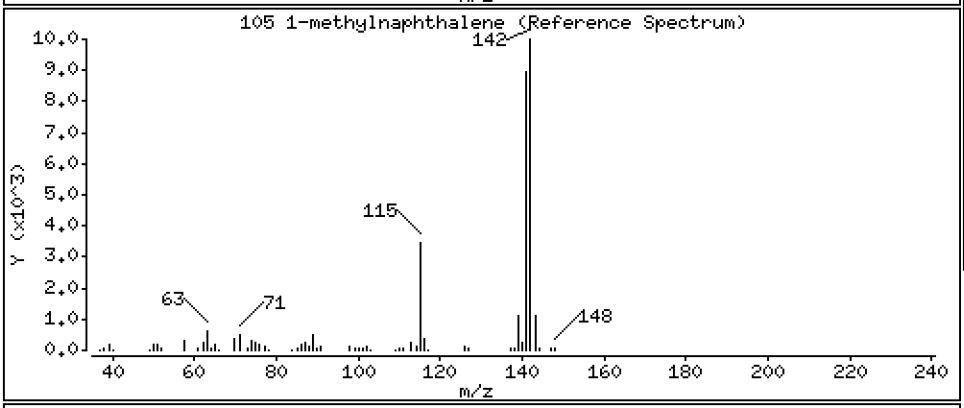
Concentration: 0.2317 ug/mL

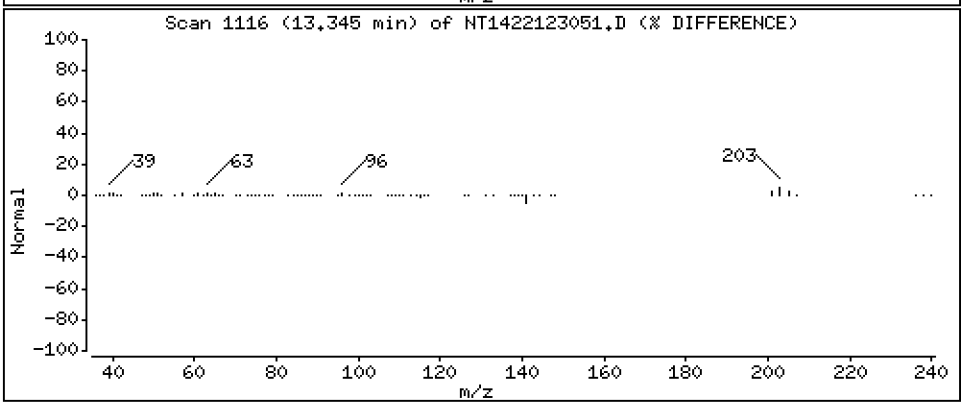












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

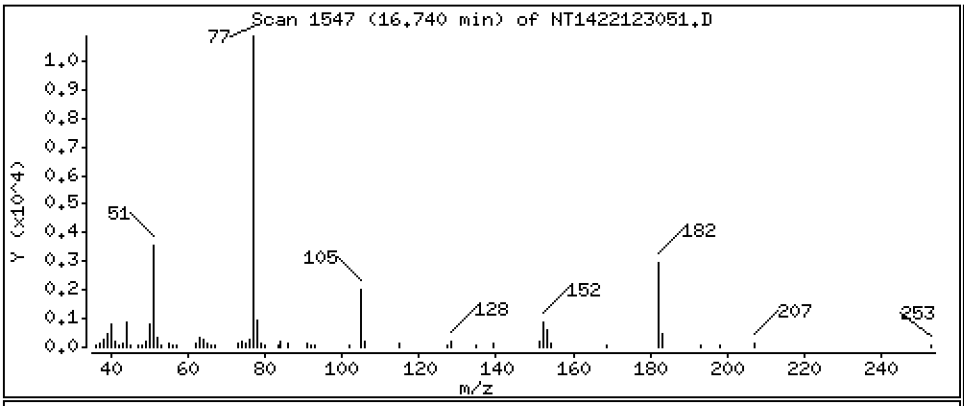
Operator: VTS

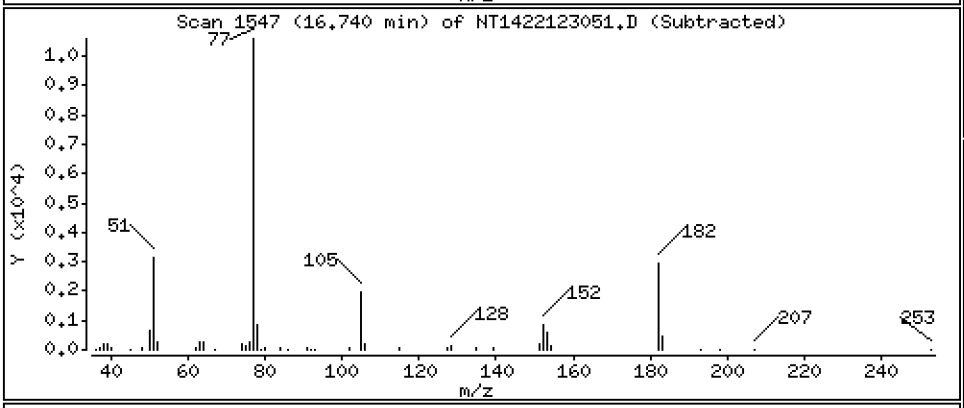
Column phase: ZB-5msi

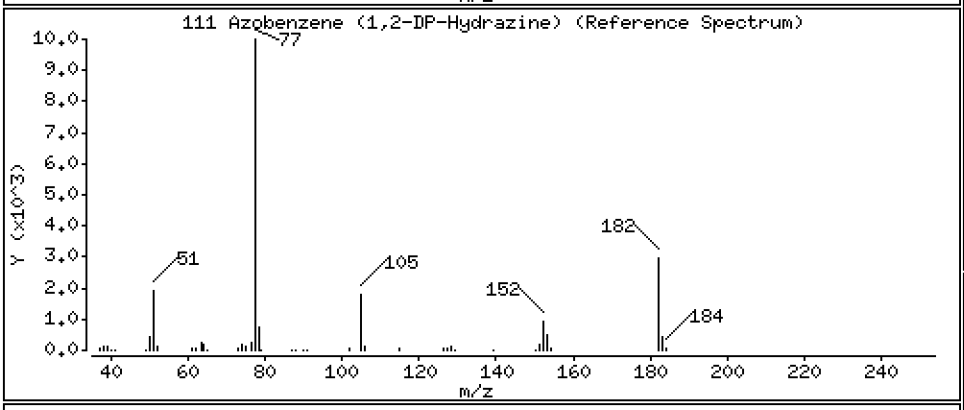
Column diameter: 0.25

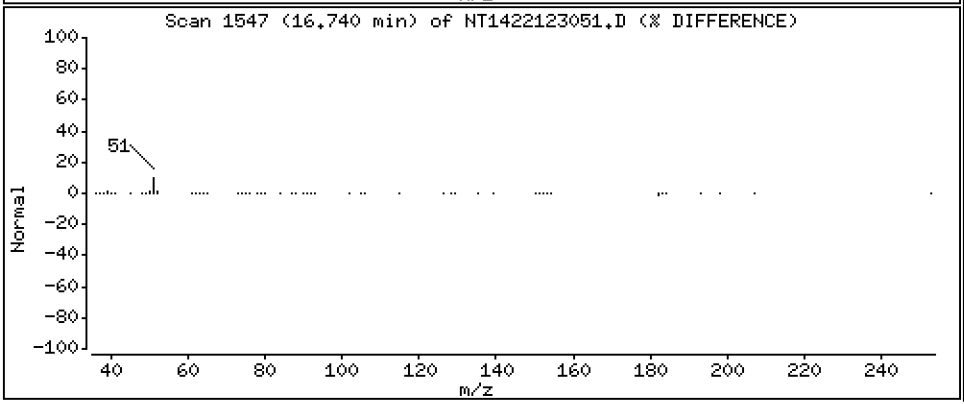
111 Azobenzene (1,2-DP-Hydrazine)

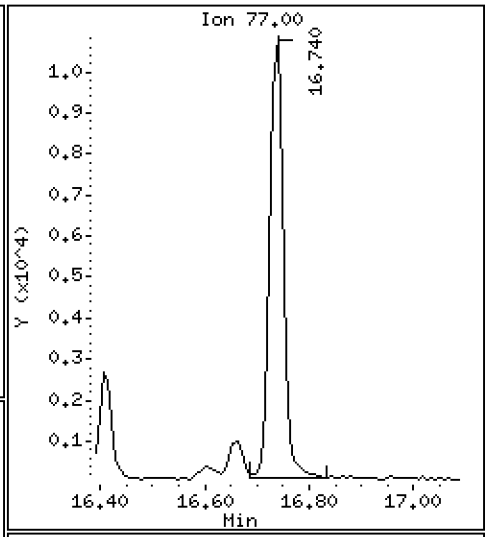
Concentration: 0.2322 ug/mL

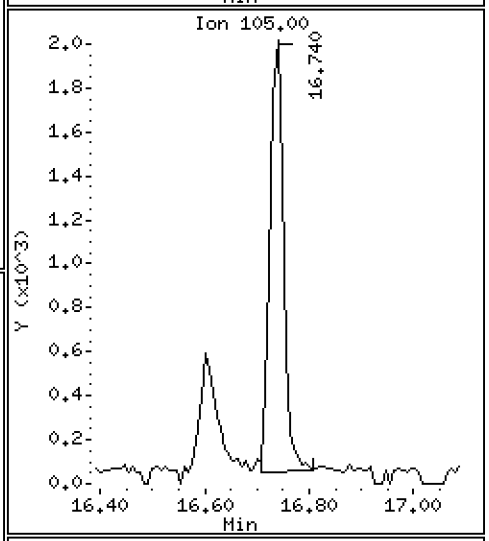


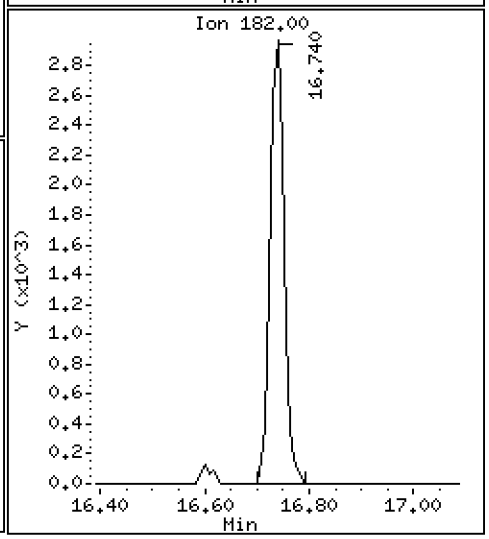












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123051.D

Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

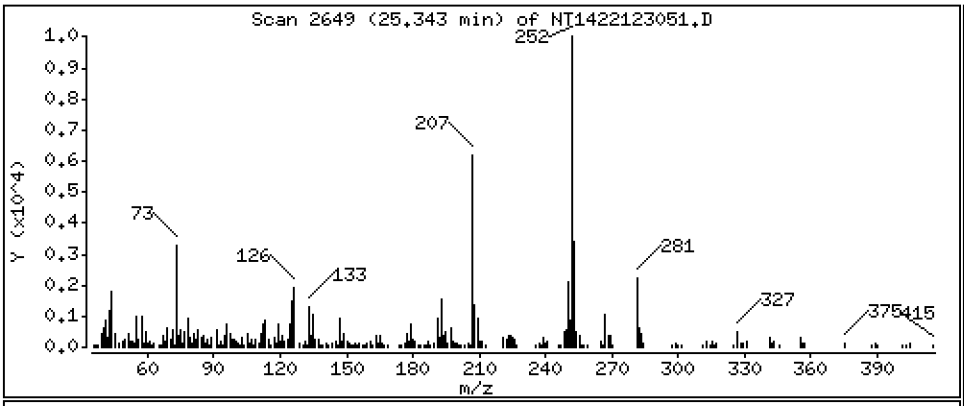
Operator: VTS

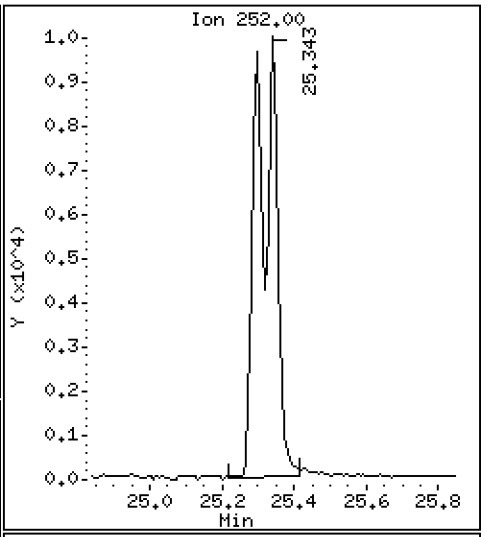
Column phase: ZB-5msi

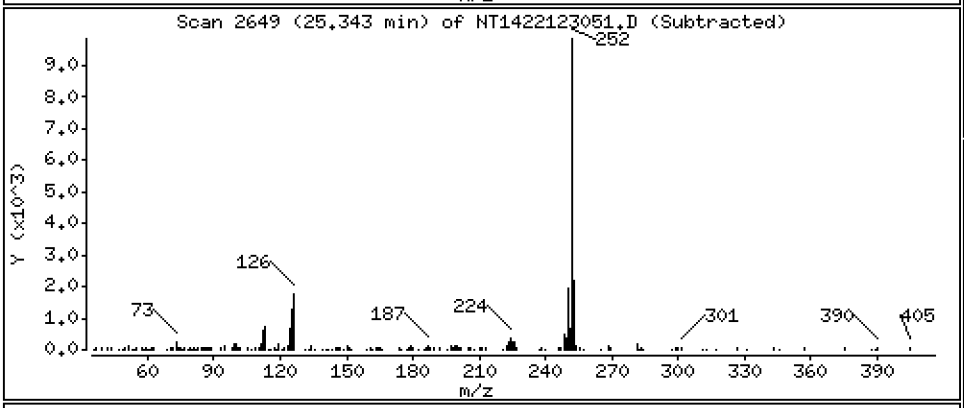
Column diameter: 0.25

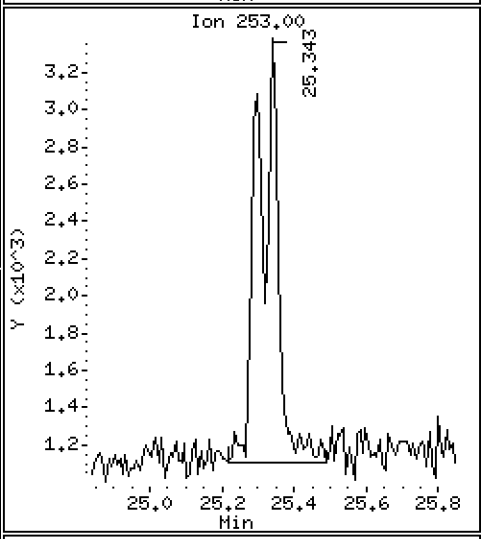
187 Total Benzofluoranthenes

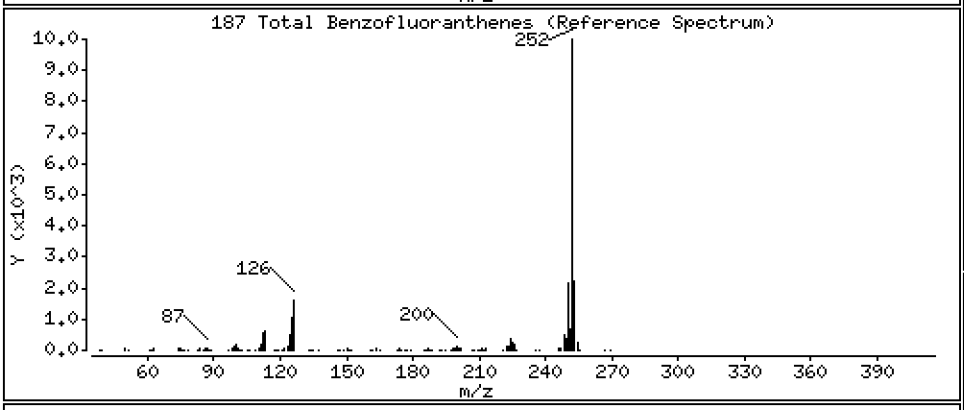
Concentration: 0.5087 ug/mL

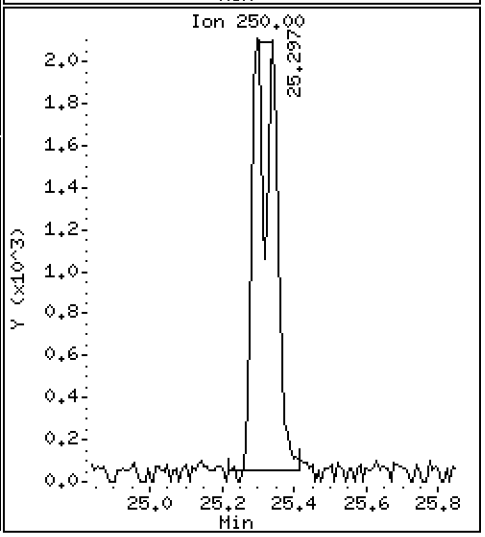


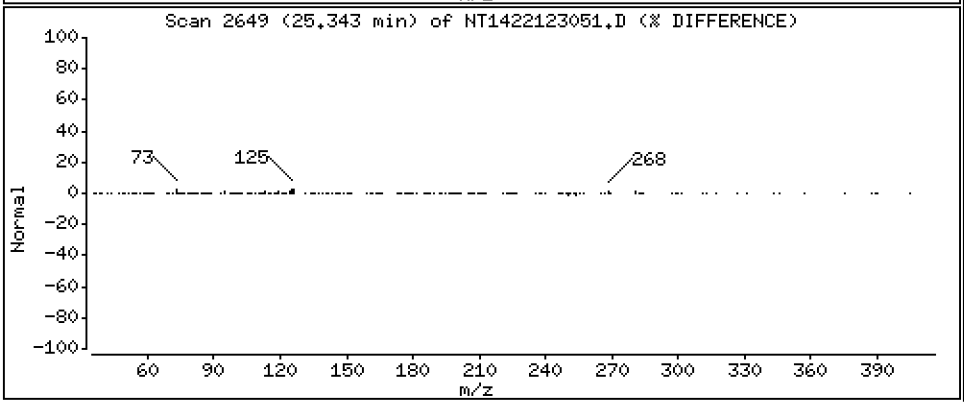












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Date : 31-DEC-2022 14:29

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV1

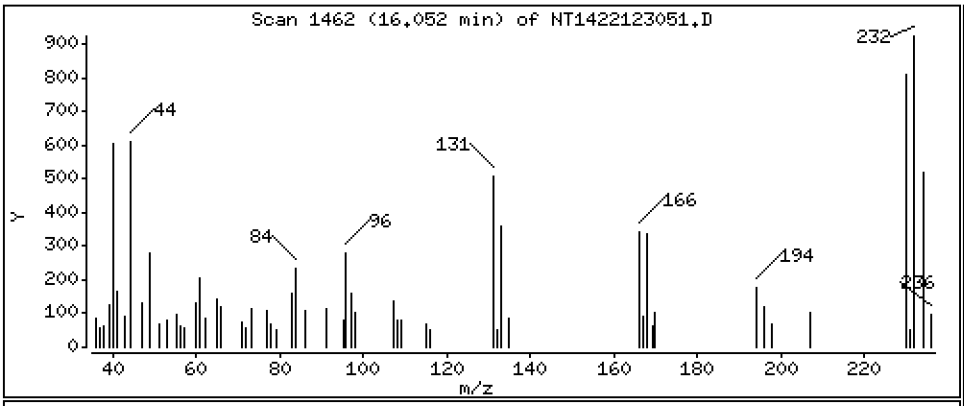
Operator: VTS

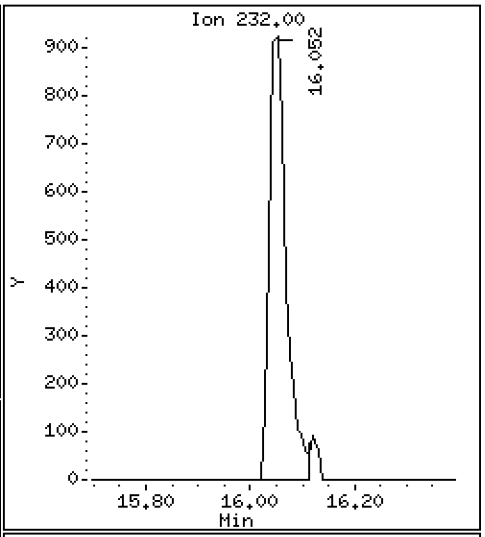
Column phase: ZB-5msi

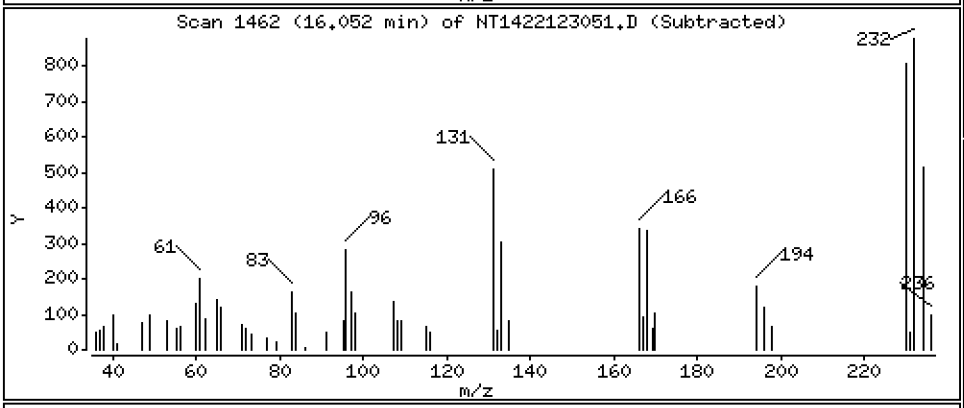
Column diameter: 0.25

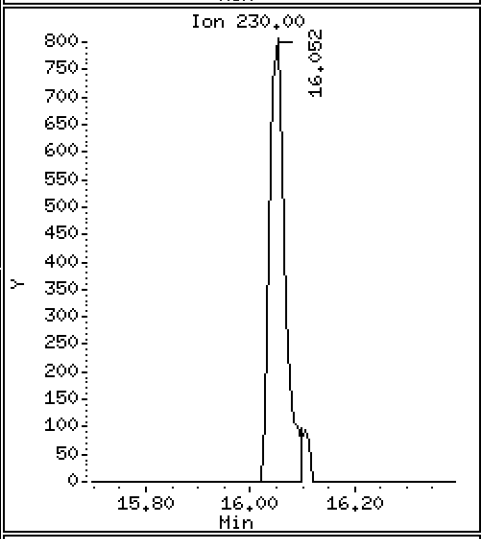
120 2,3,4,6-Tetrachlorophenol

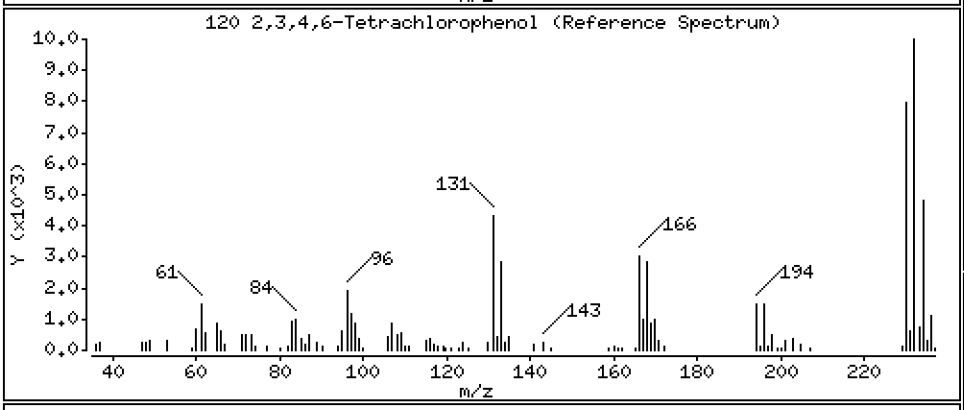
Concentration: 0.1326 ug/mL

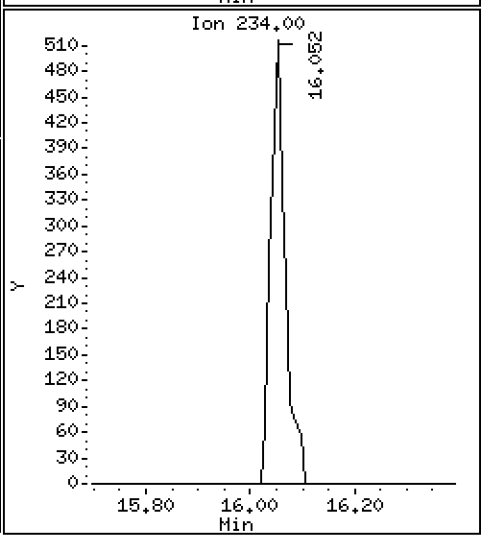


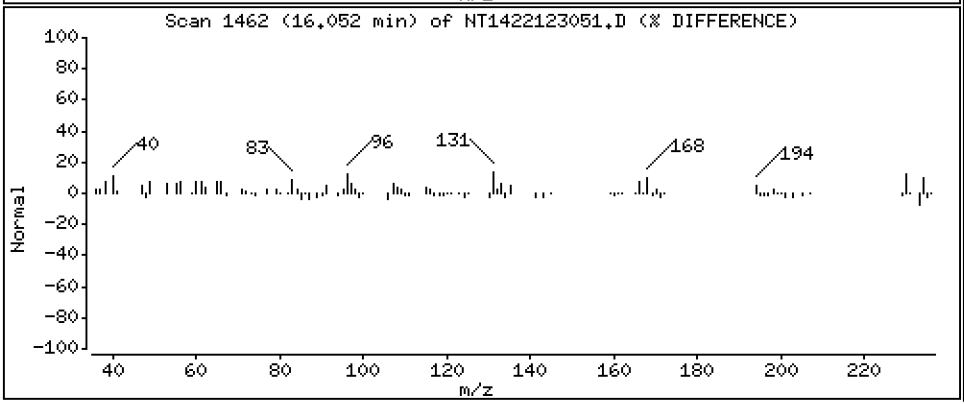












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 31-DEC-2022 14:29 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.927	6.927	(0.756)	12842	0.34438	0.3444
$	2 Phenol-d5	99	8.519	8.519	(0.929)	14155	0.30716	0.3072
	3 Phenol	94	8.542	8.542	(0.932)	12014	0.22943	0.2294
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	12856	0.33217	0.3322
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	8623	0.23905	0.2390
	6 2-Chlorophenol	128	8.835	8.835	(0.964)	10012	0.23554	0.2355
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	11073	0.24567	0.2457
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	116397	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	10619	0.24869	0.2487
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	6376	0.24103	0.2410
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	10186	0.24324	0.2432
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3783	0.16228	0.1623
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	2715	0.22362	0.2236(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	8908	0.23411	0.2341
	17 Hexachloroethane	117	10.162	10.162	(1.108)	2756	0.17549	0.1755
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	5117	0.22076	0.2208
	15 4-Methylphenol	108	9.937	9.937	(1.084)	8513	0.21208	0.2121
$	18 Nitrobenzene-d5	82	10.270	10.270	(0.880)	7699	0.21407	0.2141
	19 Nitrobenzene	77	10.301	10.301	(0.882)	8051	0.22540	0.2254
	20 Isophorone	82	10.759	10.759	(0.922)	8947	0.19654	0.1965
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	4423	0.20275	0.2028
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	16985	0.45562	0.4556
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	8349	0.23576	0.2358
	24 Benzoic acid	105	11.139	11.201	(0.954)	3966	0.17478	0.1748(M)
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	12985	0.41323	0.4132
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	8229	0.24219	0.2422
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	425902	4.00000	
	28 Naphthalene	128	11.720	11.720	(1.004)	24917	0.23773	0.2377
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	17541	0.40581	0.4058
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	3748	0.22233	0.2223
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.098)	11891	0.40100	0.4010
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	17149	0.22305	0.2231
	33 Hexachlorocyclopentadiene	237	13.600	13.592	(0.888)	352	0.02150	0.02150

		QUANT SIG					CONCENTRATIONS	
	Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34 2,4,6-Trichlorophenol	196	13.754	13.747	(0.898)	6773	0.37464	0.3746
	35 2,4,5-Trichlorophenol	196	13.839	13.824	(0.904)	9005	0.43158	0.4316(M)
$	36 2-Fluorobiphenyl	172	13.909	13.909	(0.909)	16254	0.22319	0.2232
	37 2-Chloronaphthalene	162	14.126	14.126	(0.923)	14693	0.23716	0.2372
	38 2-Nitroaniline	65	14.381	14.373	(0.939)	6470	0.39723	0.3972
	39 Dimethylphthalate	163	14.807	14.807	(0.967)	13629	0.22312	0.2231
	40 Acenaphthylene	152	15.000	15.000	(0.980)	21309	0.22558	0.2256
	41 2,6-Dinitrotoluene	165	14.946	14.946	(0.976)	4846	0.35154	0.3515
*	42 Acenaphthene-d10	164	15.310	15.318	(1.000)	216598	4.00000	
	43 3-Nitroaniline	138	15.232	15.233	(0.995)	5647	0.33704	0.3370
	44 Acenaphthene	153	15.379	15.379	(1.005)	13777	0.23514	0.2351
	45 2,4-Dinitrophenol	184	15.472	15.441	(1.011)	62	0.00530	0.005296(M)
	46 Dibenzofuran	168	15.712	15.712	(1.026)	21128	0.24047	0.2405
	47 4-Nitrophenol	109	15.634	15.549	(1.021)	1904	0.23747	0.2375(M)
	48 2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	5711	0.30195	0.3020
	50 Diethylphthalate	149	16.268	16.268	(1.063)	18907	0.22772	0.2277
	49 Fluorene	166	16.423	16.423	(1.073)	21251	0.22736	0.2274
	51 4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	9783	0.21379	0.2138
	52 4-Nitroaniline	138	16.523	16.508	(1.079)	6307	0.31284	0.3128
	53 4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	2946	0.20197	0.2020
	54 N-Nitrosodiphenylamine	169	16.662	16.662	(0.907)	14446	0.24221	0.2422
$	55 2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	2148	0.21169	0.2117(M)
	56 4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	5136	0.22742	0.2274
	57 Hexachlorobenzene	284	17.742	17.742	(0.966)	5677	0.22906	0.2291
	58 Pentachlorophenol	266	18.114	18.098	(0.987)	823	0.07669	0.07669(M)
*	59 Phenanthrene-d10	188	18.361	18.369	(1.000)	347572	4.00000	
	60 Phenanthrene	178	18.408	18.415	(1.003)	21884	0.24149	0.2415
	61 Anthracene	178	18.508	18.508	(1.008)	18882	0.21826	0.2183
	62 Carbazole	167	18.841	18.833	(1.026)	18183	0.21741	0.2174
	63 Di-n-butylphthalate	149	19.622	19.622	(1.069)	17991	0.19057	0.1906
	64 Fluoranthene	202	20.798	20.798	(0.889)	21465	0.23077	0.2308
	65 Pyrene	202	21.224	21.224	(0.907)	21631	0.22118	0.2212
$	66 Terphenyl-d14	244	21.495	21.495	(0.918)	15087	0.21757	0.2176
	67 Butylbenzylphthalate	149	22.408	22.416	(0.957)	7672	0.20800	0.2080
	68 Benzo(a)anthracene	228	23.376	23.376	(0.999)	21137	0.24154	0.2415
*	69 Chrysene-d12	240	23.407	23.407	(1.000)	288877	4.00000	
	70 3,3'-Dichlorobenzidine	252	23.330	23.330	(0.997)	18651	0.69622	0.6962
	71 Chrysene	228	23.446	23.454	(1.002)	19952	0.24137	0.2414
	72 bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	10512	0.21854	0.2185
*	134 Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	433122	4.00000	
	73 Di-n-octylphthalate	149	24.437	24.437	(1.000)	25154	0.24194	0.2419
	74 Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	19147	0.24594	0.2459
	75 Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	20195	0.25486	0.2549
	76 Benzo(a)pyrene	252	25.978	25.978	(0.996)	15635	0.24158	0.2416
*	77 Perylene-d12	264	26.094	26.094	(1.000)	247727	4.00000	
	78 Indeno(1,2,3-cd)pyrene	276	28.861	28.854	(1.106)	10497	0.14268	0.1427
	79 Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	9359	0.14970	0.1497
	80 Benzo(g,h,i)perylene	276	29.685	29.669	(1.138)	7577	0.12294	0.1229
	90 N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	12751	0.49649	0.4965
	91 Aniline	93	8.611	8.619	(0.939)	24033	0.47136	0.4714
	93 Benzidine	184	21.030	21.015	(0.898)	12279	0.34708	0.3471
	103 Pyridine	79	4.780	4.757	(0.521)	19811	0.24276	0.2428
	105 1-methylnaphthalene	142	13.344	13.352	(1.143)	17117	0.23171	0.2317
	111 Azobenzene (1,2-DP-Hydrazine)	77	16.739	16.739	(1.093)	18676	0.23219	0.2322

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.343	25.343	(0.971)	38292	0.50874	0.5087
120 2,3,4,6-Tetrachlorophenol	232	16.052	16.044	(1.048)	2022	0.13261	0.1326

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123051.D
Lab Smp Id: SKL0355-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	116397	-13.42
27 Naphthalene-d8	492388	246194	984776	425902	-13.50
42 Acenaphthene-d10	270679	135340	541358	216598	-19.98
59 Phenanthrene-d10	429616	214808	859232	347572	-19.10
69 Chrysene-d12	376030	188015	752060	288877	-23.18
134 Di-n-octylphthala	634628	317314	1269256	433122	-31.75
77 Perylene-d12	336225	168113	672450	247727	-26.32

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123051.D

Lab ID: SKL0355-LCV1
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 14:29

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.021	1.015	0.0061	4-Nitrophenol

RRT check based on Ccal File: NT1422123049.D

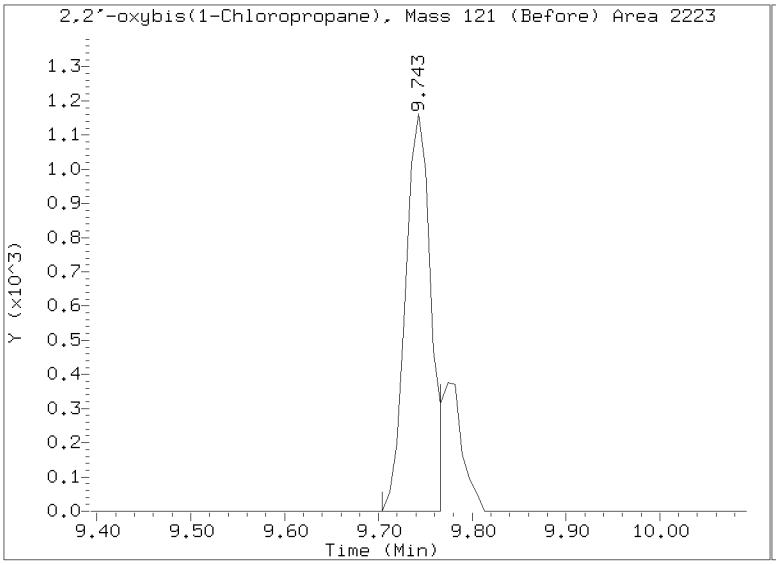
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

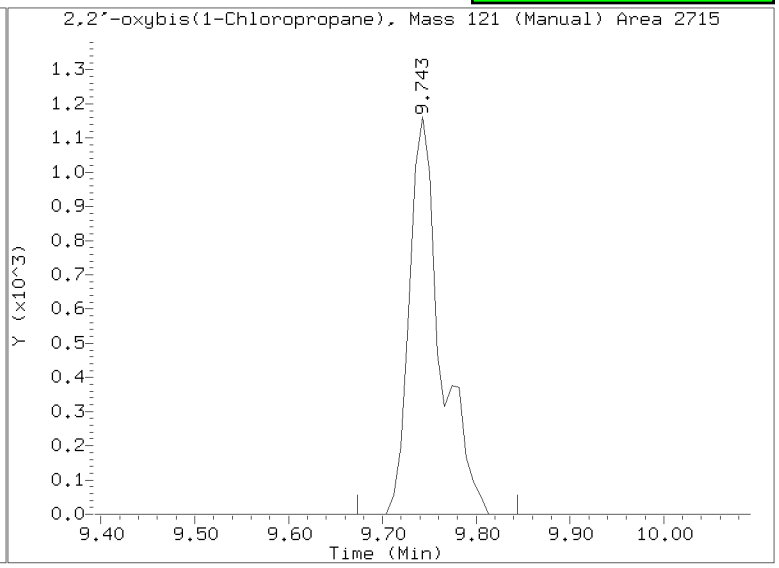
* Only compounds listed in the work order have been verified by the analyst *

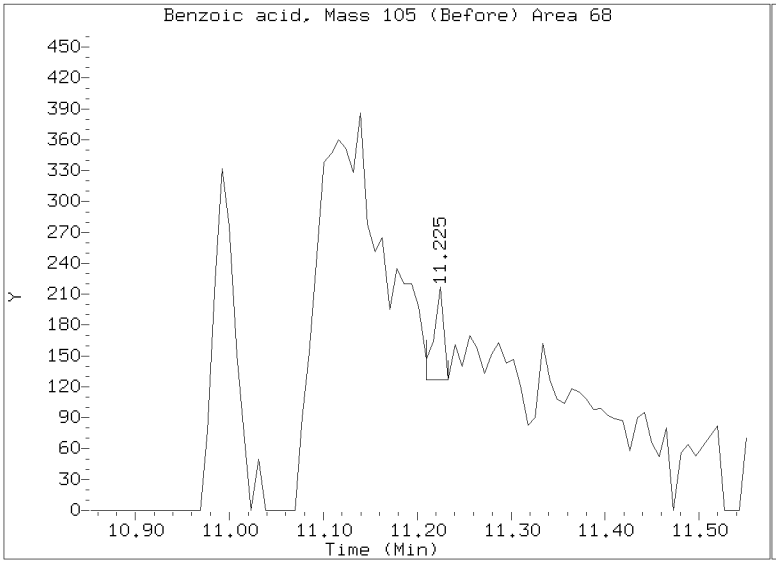
Quant Ion Manual Peak Adjustment Report

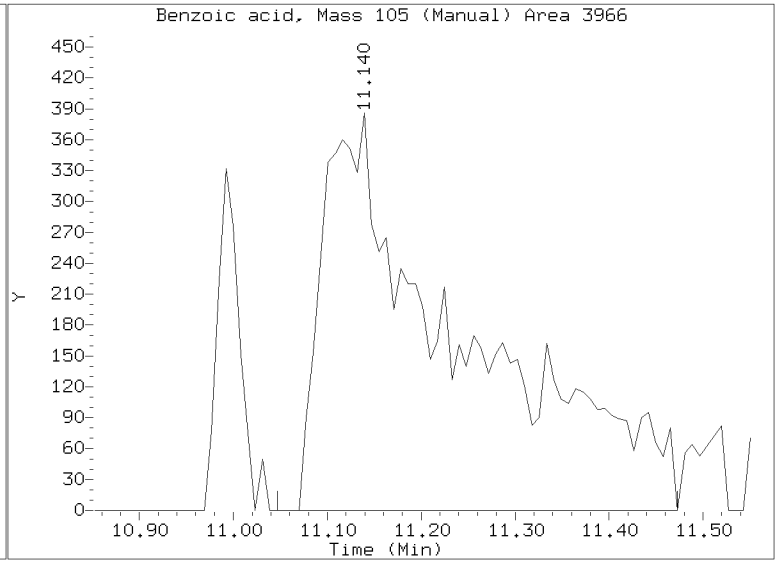
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123051.D
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

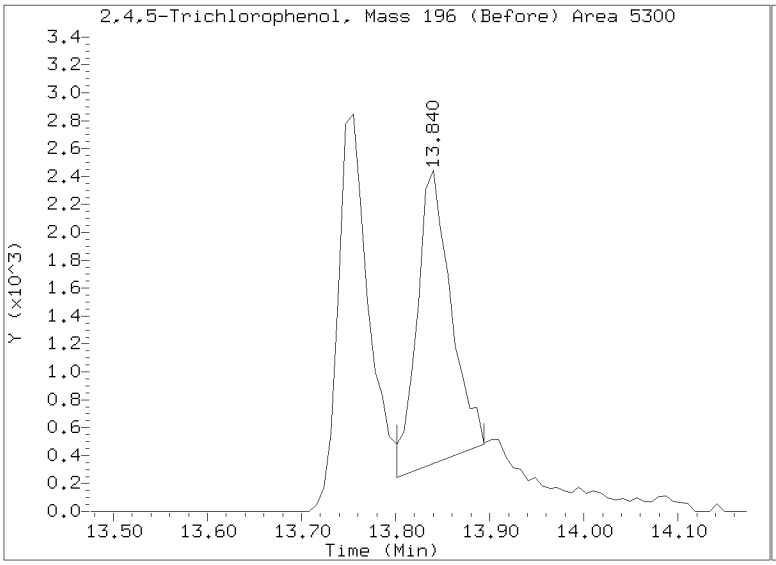
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

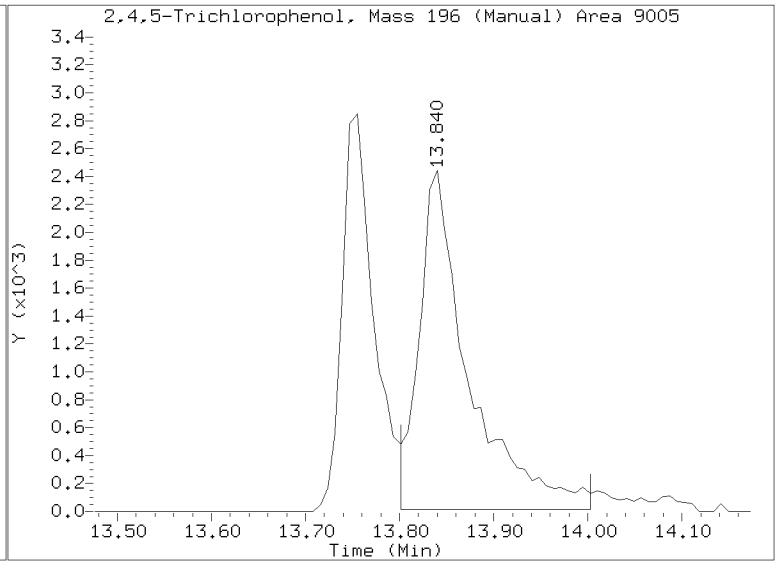












Quant Ion Manual Peak Adjustment Report

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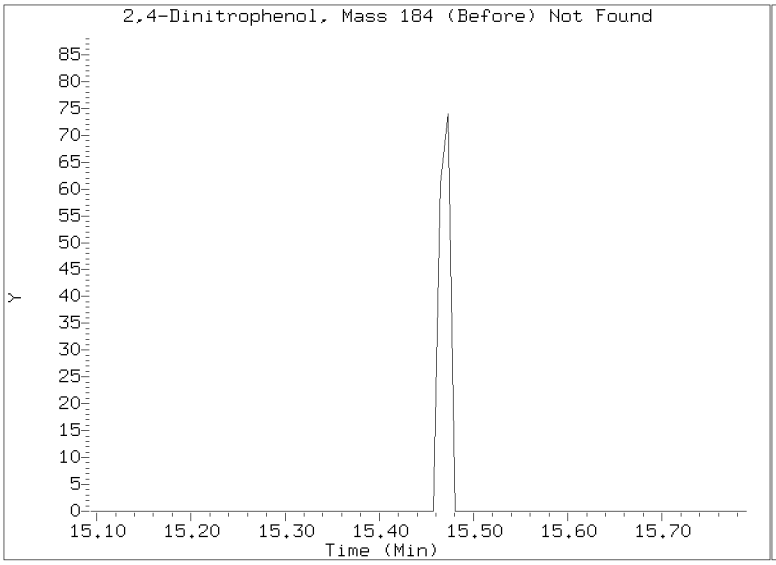
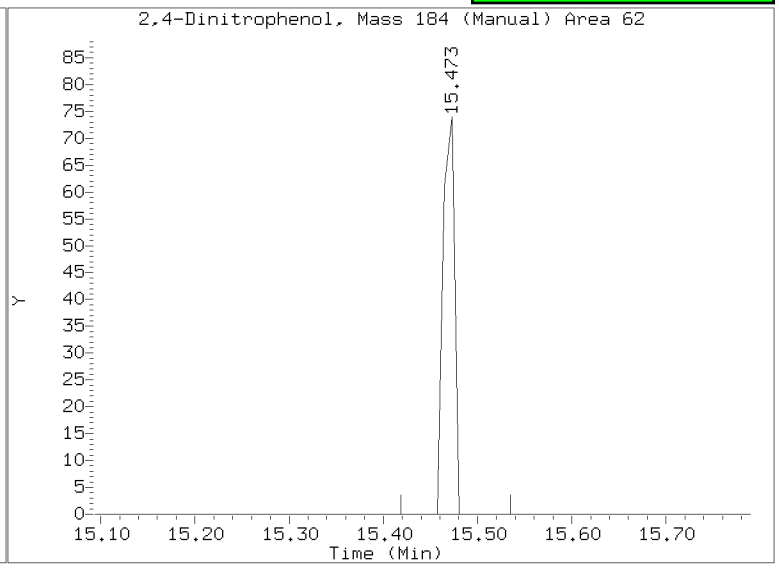
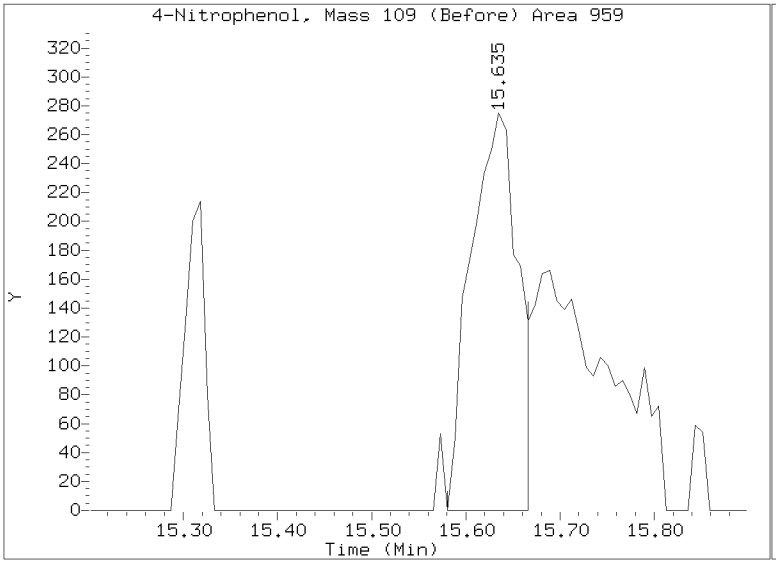
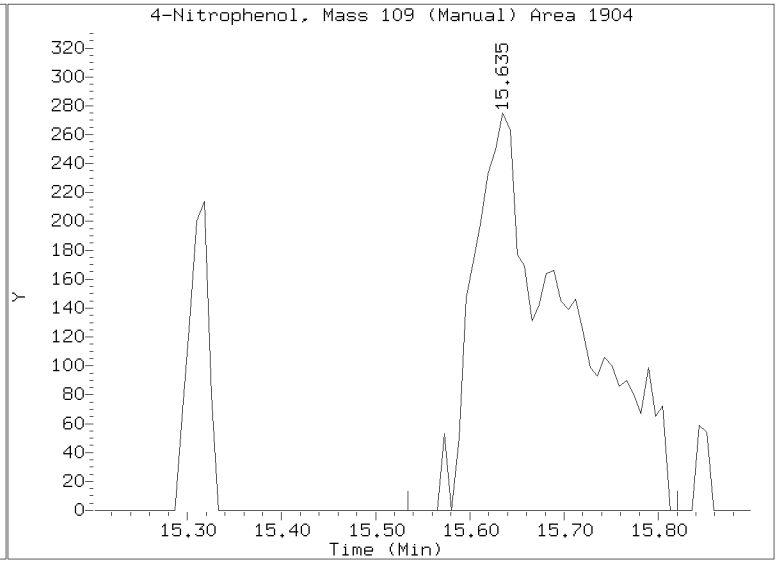
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

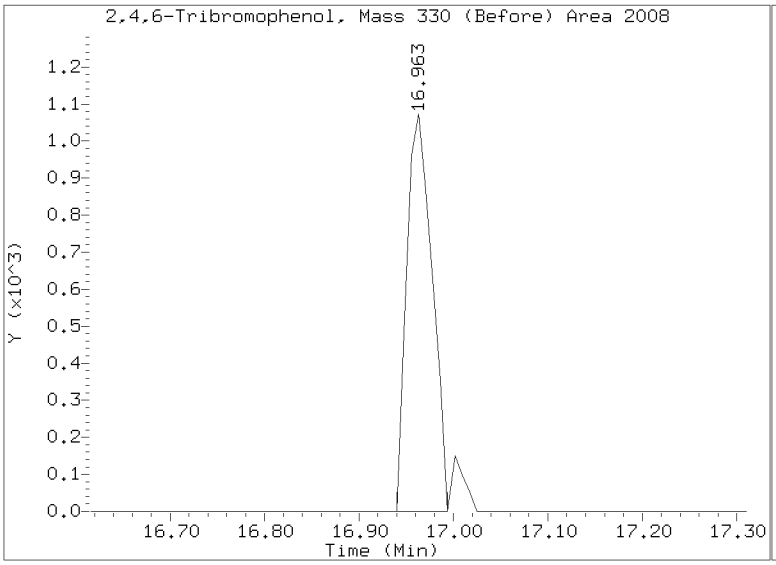
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

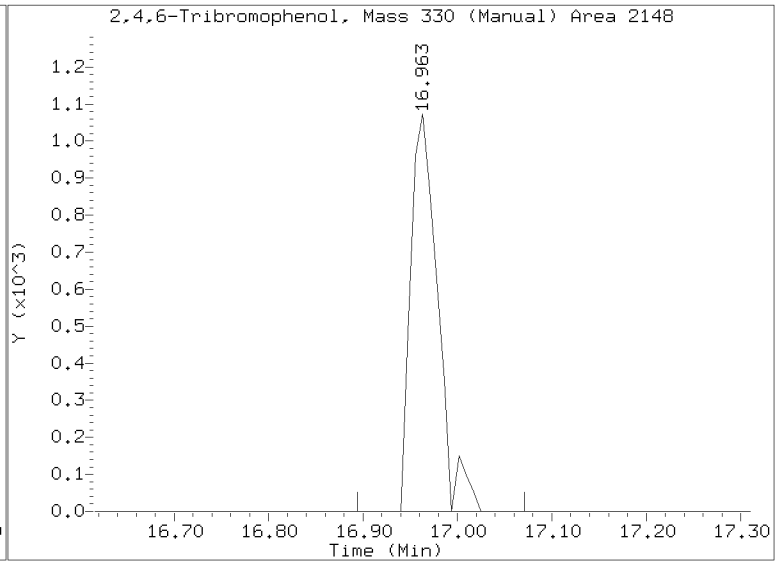












Quant Ion Manual Peak Adjustment Report

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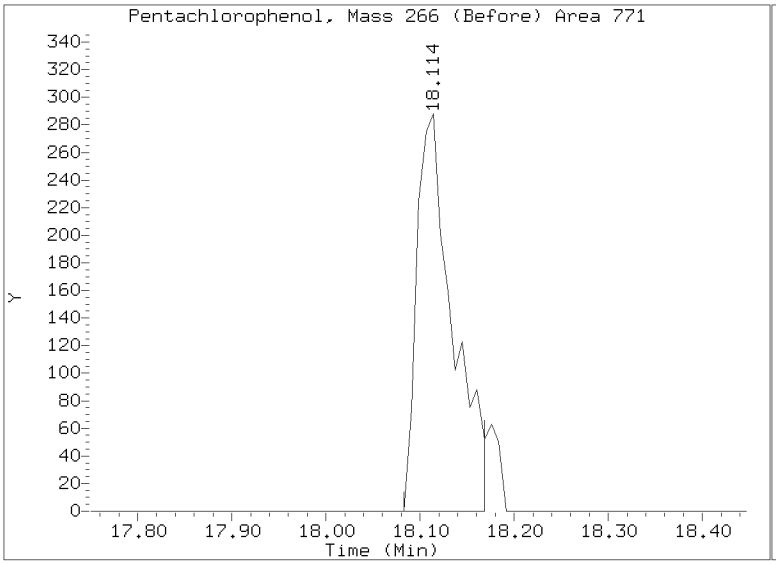
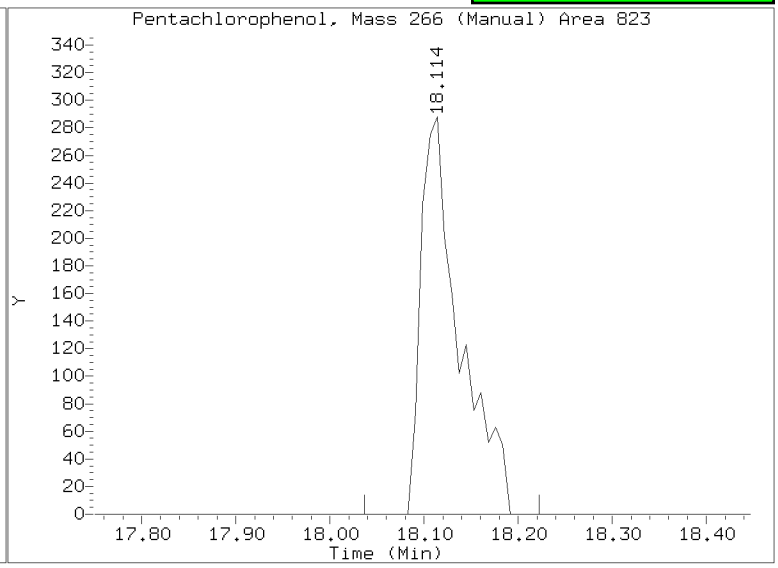
Injection Date: 31-DEC-2022 14:29
Lab ID:SKL0355-LCV1 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7325950		-3.7	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.2028800		-3.0	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.4773280		1.1	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5328030		-1.0	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4452280		-1.5	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.3937480		-3.2	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6069011		-24.2	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3849990		-7.7	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2638830		-3.3	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4023809		-25.4	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.7414943		-6.9	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.3097020		-5.1	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3113681		-7.2	+/-50
Isophorone	A	0.50000	0.4	0.4275424	0.3691814		-13.7	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1872995		-8.8	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3459800		-1.2	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3219622		-3.2	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2928144		-0.8	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3073790		-3.7	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9536598		-3.1	+/-50
Benzoic acid	A	2.0000	0.3	0.1508906	0.0352427		-83.5	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3530953		-13.0	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1491346		-5.8	+/-50
4-Chloro-3-Methylphenol	A	1.0000	1.0	0.2785027	0.2652529		-4.8	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6753359		-6.5	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0324758		-89.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2972496		-11.0	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.9	0.3853234	0.3465413		-10.1	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1170750		-2.4	+/-50
2-Nitroaniline	A	1.0000	0.9	0.3007956	0.2768032		-8.0	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.8565410		6.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.0504970		-6.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2167644		-14.9	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0745560		-0.7	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2476688		-20.0	+/-50
2,4-Dinitrophenol	A	2.0000	0.1	0.1831718	0.0156780		-92.8	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5989740		-1.5	+/-50
4-Nitrophenol	A	1.0000	0.6	0.1384031	0.0959645		-35.2	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2720167		-22.1	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6695970		-3.3	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.7748683		-8.3	+/-50
Diethyl phthalate	A	0.50000	0.5	1.5332690	1.6478860		7.5	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.2954253		-20.7	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.8	0.1530278	0.0635845		-62.2	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7018379		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2548545		-1.9	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2795359		-2.0	+/-50
Pentachlorophenol	A	1.0000	0.2	0.1128364	0.0278031		-77.5	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0191030		-2.3	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9325724		-6.3	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.8870049		-7.8	+/-50
Di-n-Butylphthalate	A	0.50000	0.4	1.0394700	0.9331563		-14.3	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.1960540		-7.1	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.2671330		-6.4	+/-50
Butylbenzylphthalate	A	0.50000	0.4	0.4650792	0.4535222		-11.3	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.1750560		-3.0	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.5	0.3709370	0.3656682		-1.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1213670		-2.0	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4179763		-5.9	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9369664		-2.4	+/-50
Benzofluoranthenes, Total	A	1.0000	1.0	1.2153330	1.2422410		2.2	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.0482420		0.3	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.7686082		-35.3	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.6655969		-34.1	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.3	0.9951726	0.5323711		-46.5	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6611238		-4.7	+/-50
2-Fluorophenol	A	0.75000	0.711	1.2814900	1.2153120		-5.2	+/-50
Phenol-d5	A	0.75000	0.658	1.5836890	1.3889980		-12.3	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123052.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	12/31/22
Lab Sample ID:	SKL0355-LCV2	Injection Time:	15:05
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.686	1.3300510	1.2163330		-8.5	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.471	0.9090592	0.8557086		-5.9	+/-50
Nitrobenzene-d5	A	0.50000	0.460	0.3377760	0.3106074		-8.0	+/-50
2-Fluorobiphenyl	A	0.50000	0.474	1.3448860	1.2758050		-5.1	+/-50
2,4,6-Tribromophenol	A	0.75000	0.536	0.1844845	0.1341178		-28.6	+/-50
p-Terphenyl-d14	A	0.50000	0.454	0.9601842	0.8718034		-9.2	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

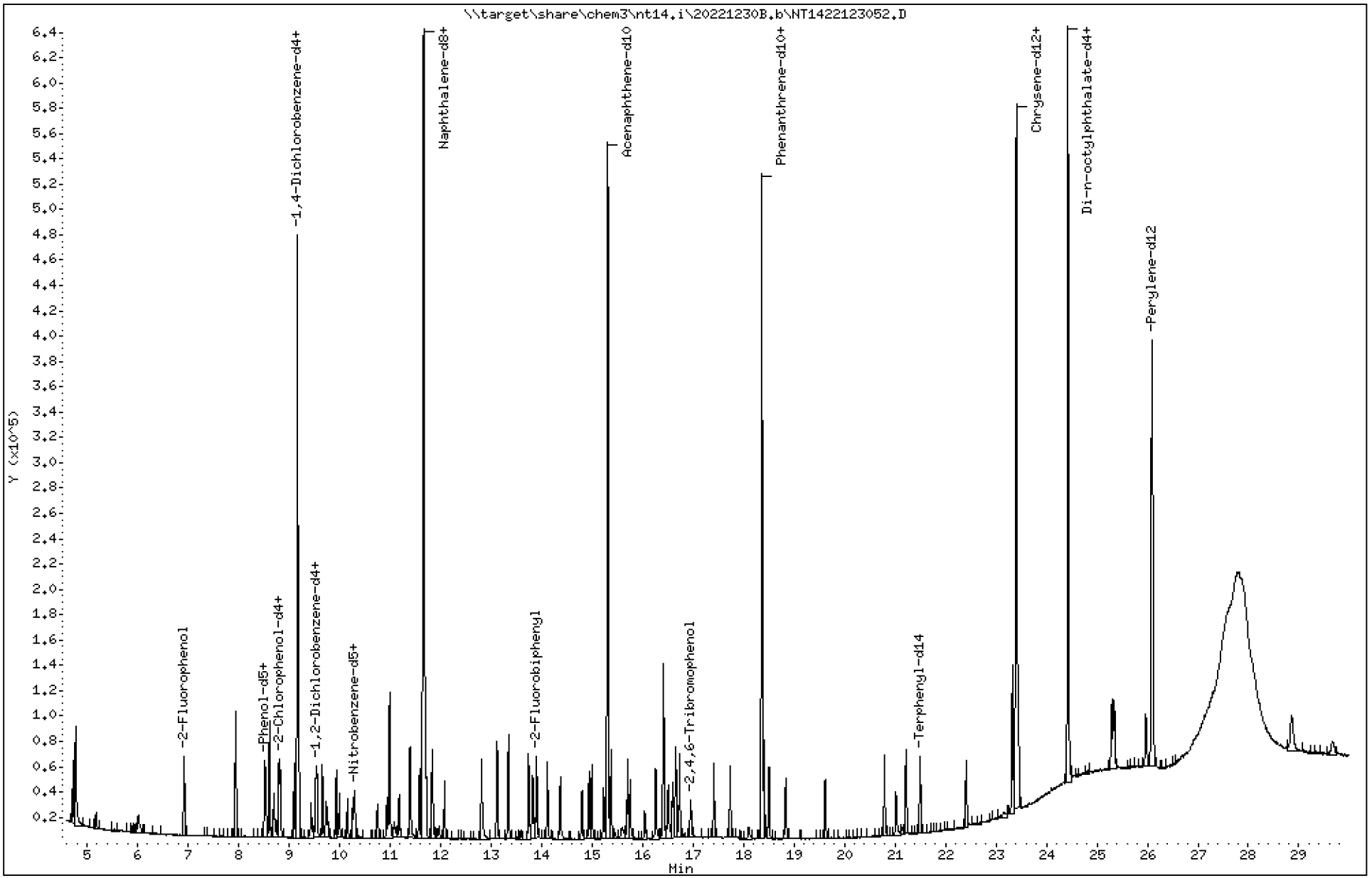
Instrument: nt14.i

Sample Info: SKL0356-LCV2

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 2964 of 5449

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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

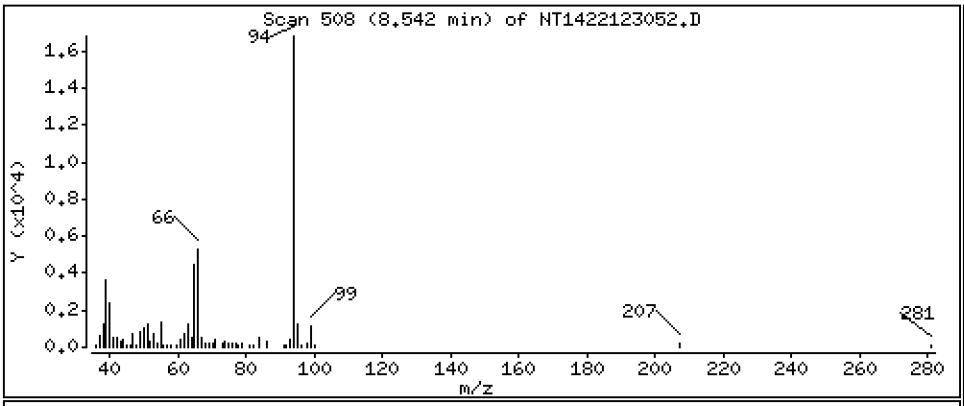
Operator: VTS

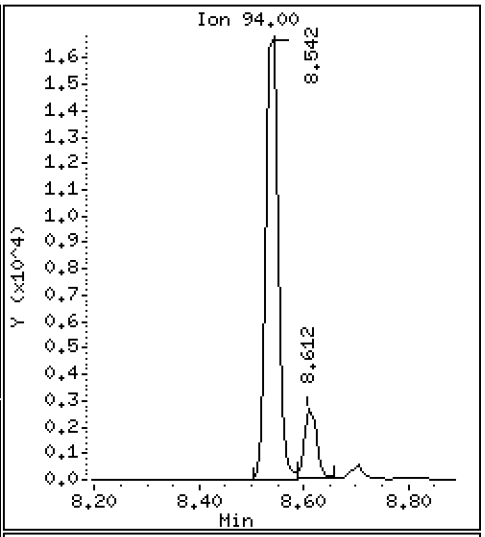
Column phase: ZB-5msi

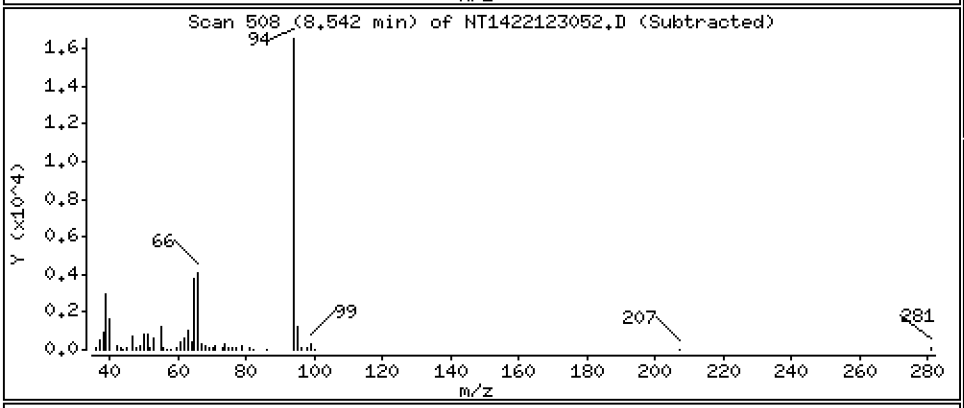
Column diameter: 0.25

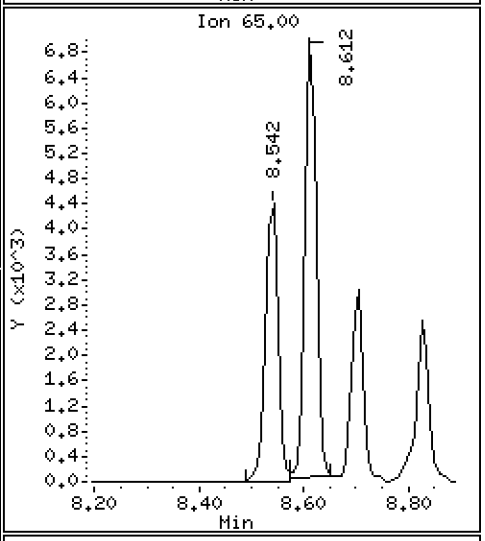
3 Phenol

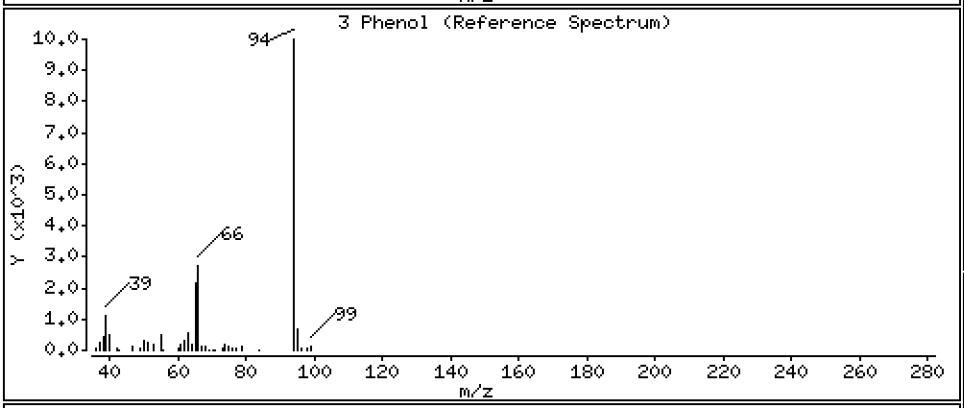
Concentration: 0.4814 ug/mL

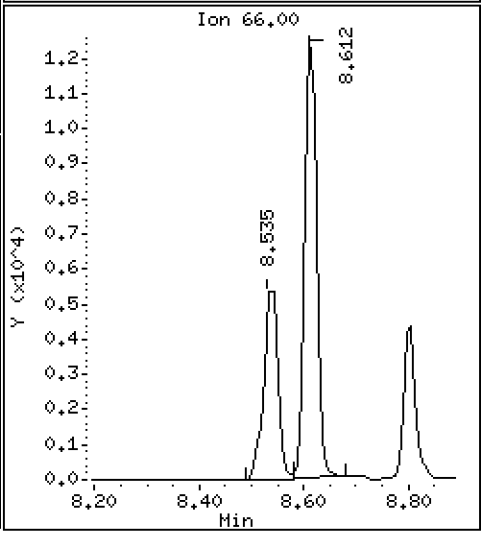


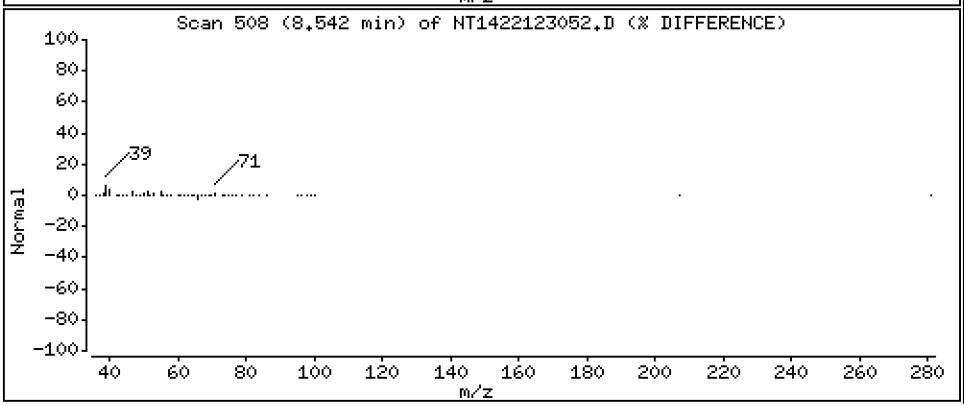












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

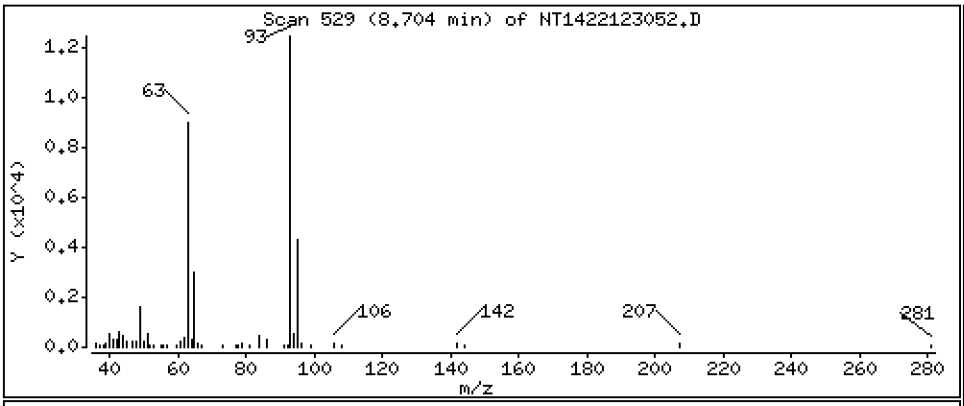
Operator: VTS

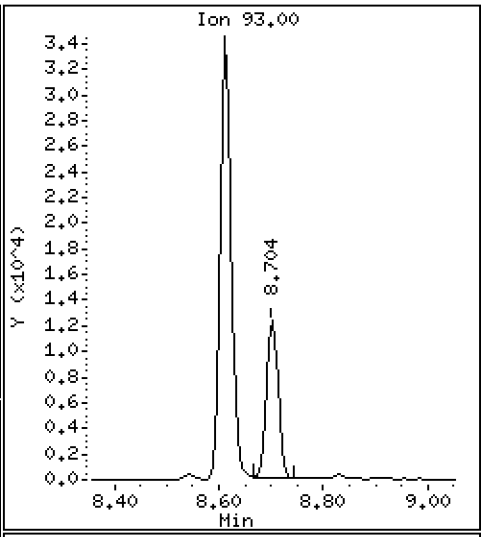
Column phase: ZB-5msi

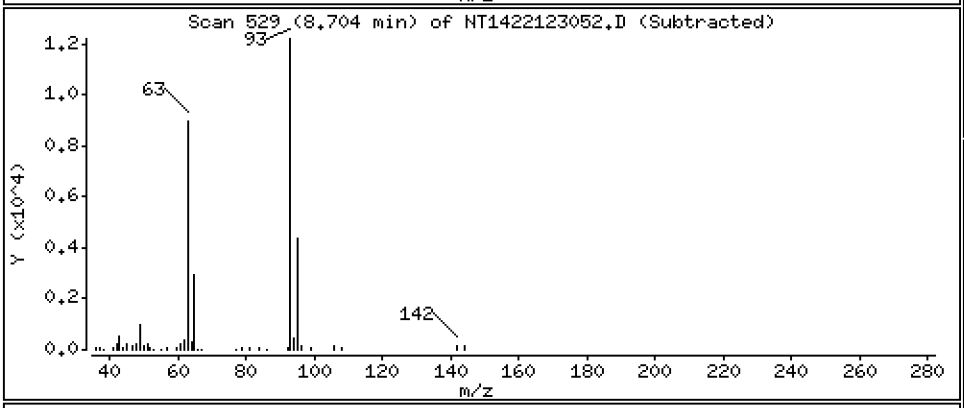
Column diameter: 0.25

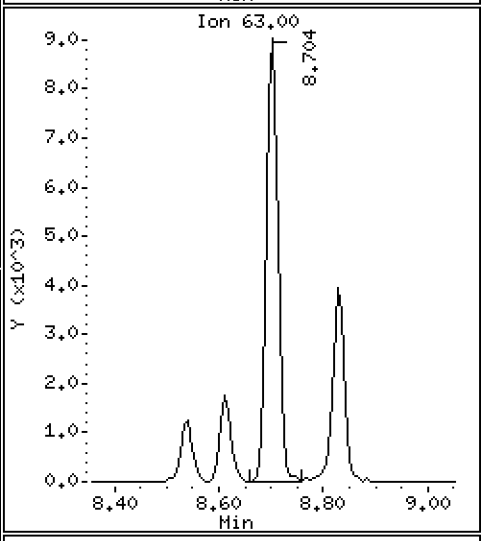
4 Bis(2-Chloroethyl)ether

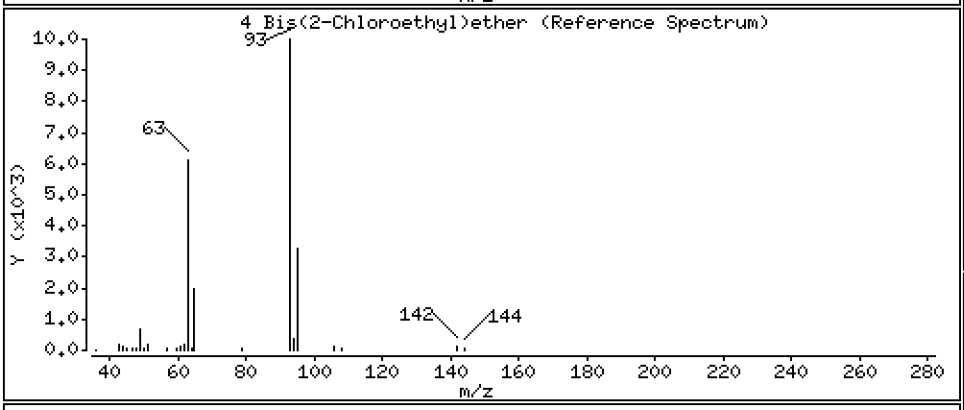
Concentration: 0.4852 ug/mL

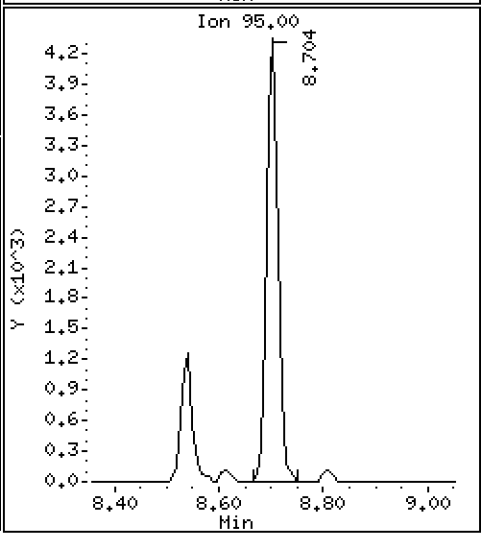


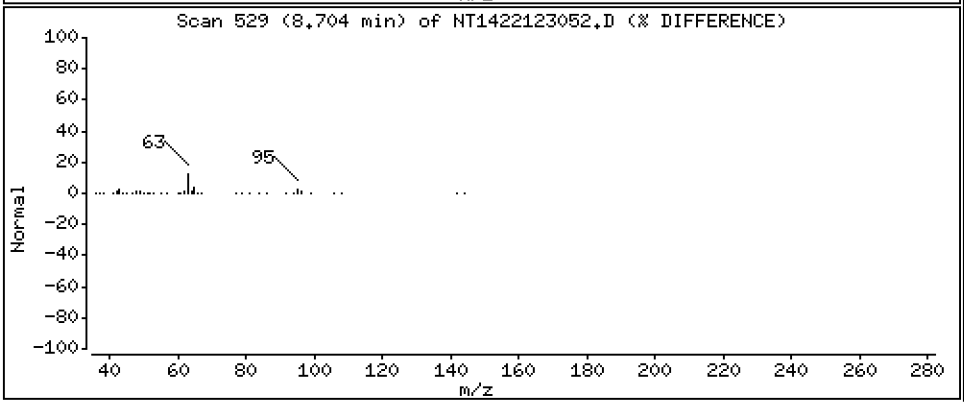












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

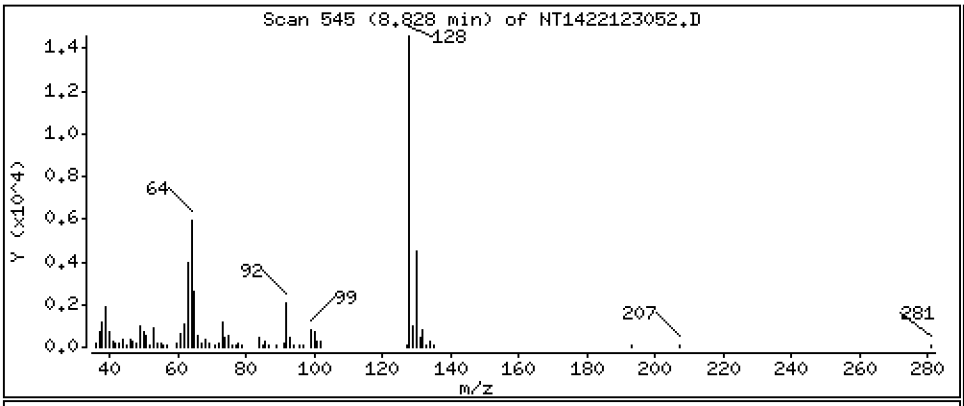
Operator: VTS

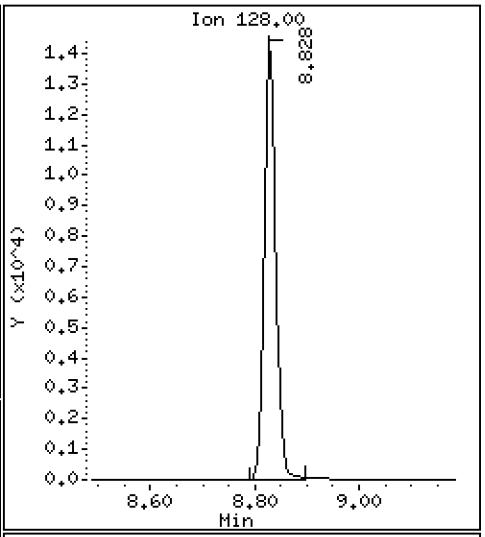
Column phase: ZB-5msi

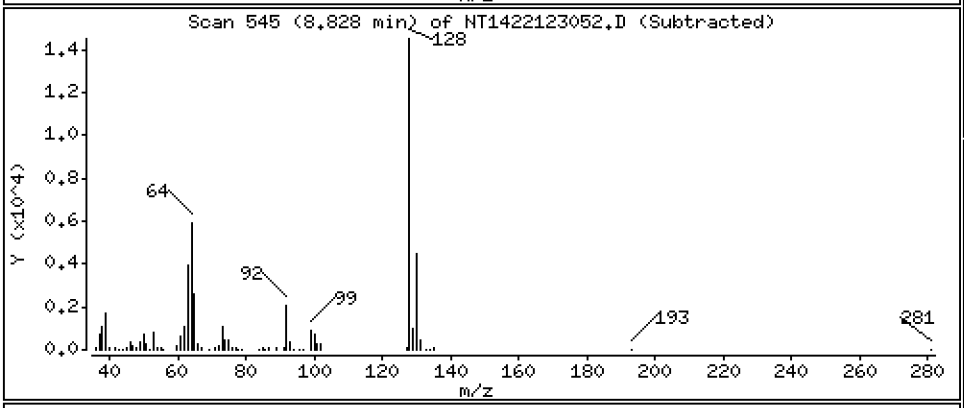
Column diameter: 0.25

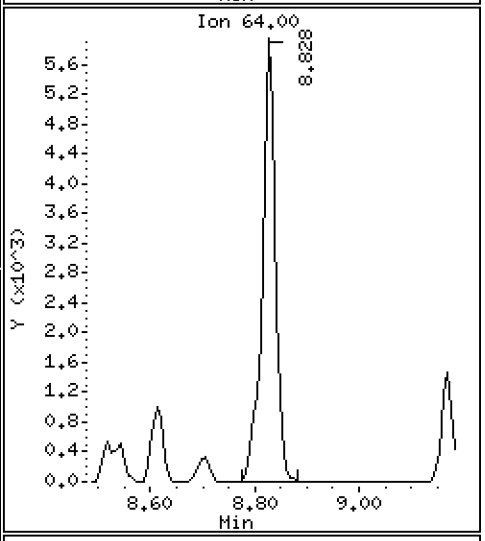
6 2-Chlorophenol

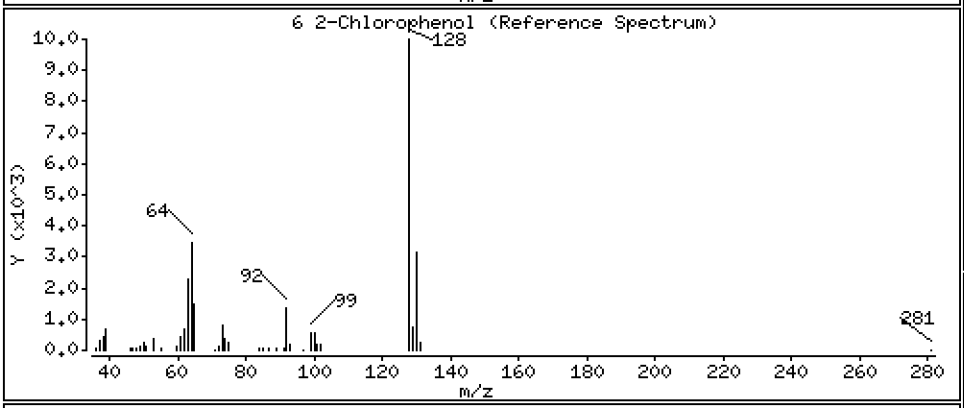
Concentration: 0.5057 ug/mL

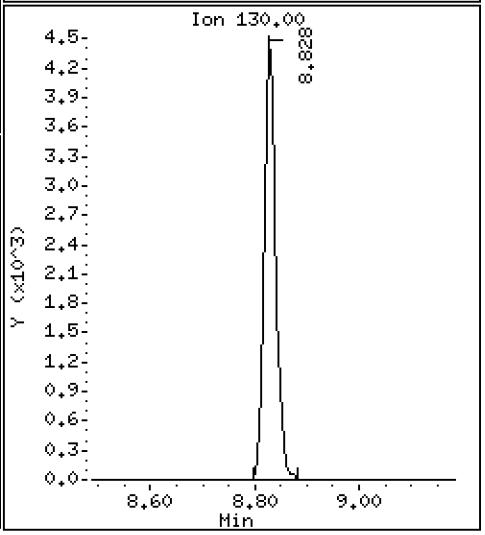


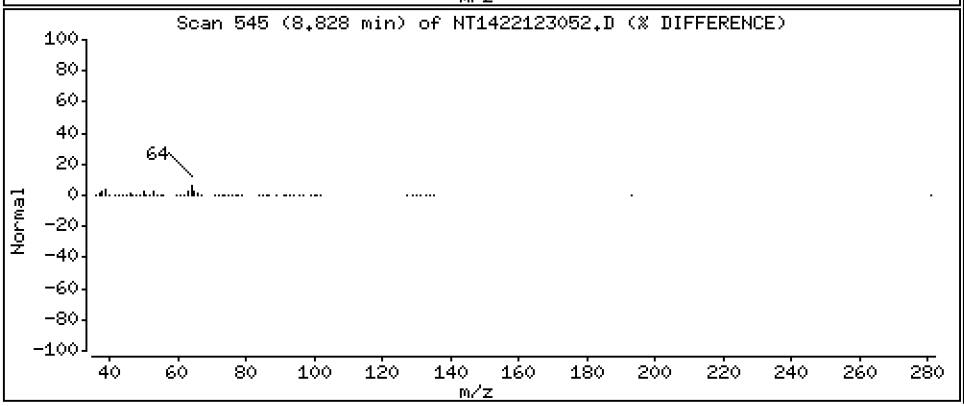












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

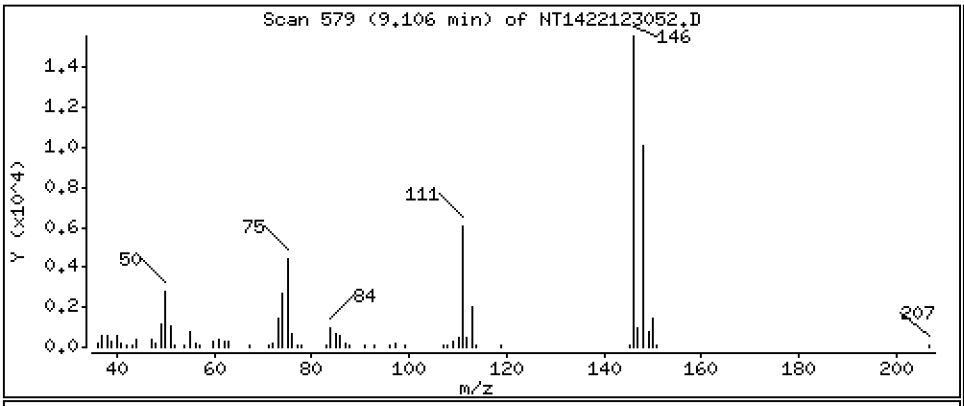
Operator: VTS

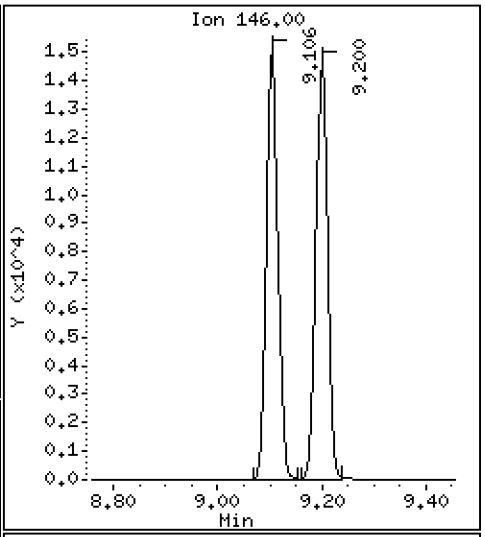
Column phase: ZB-5msi

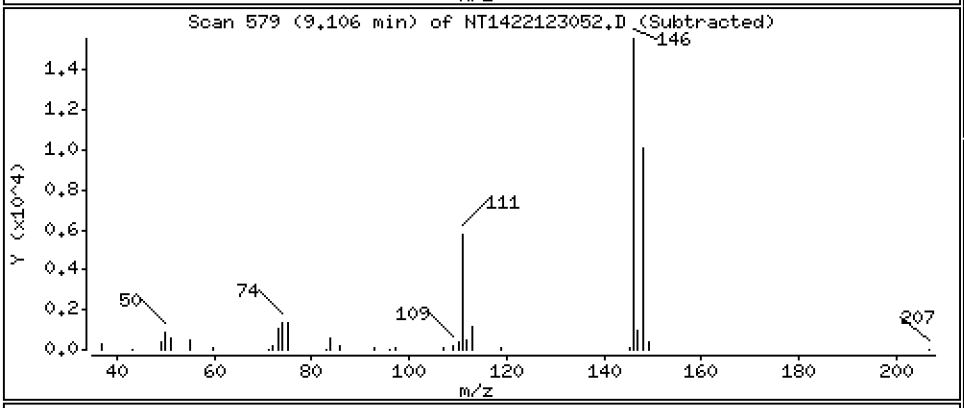
Column diameter: 0.25

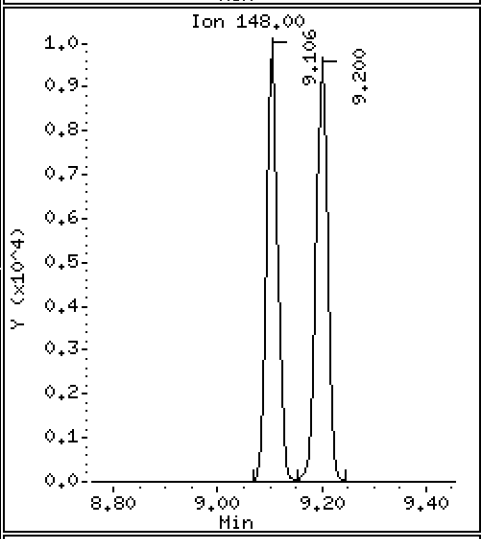
7 1,3-Dichlorobenzene

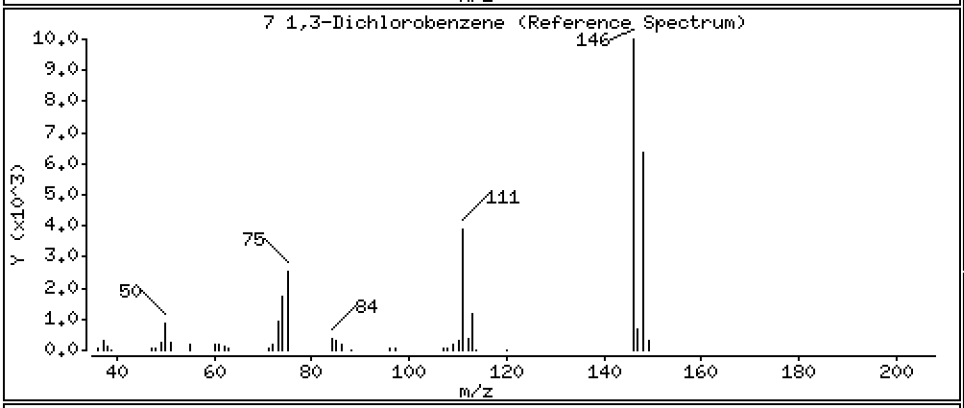
Concentration: 0.4948 ug/mL

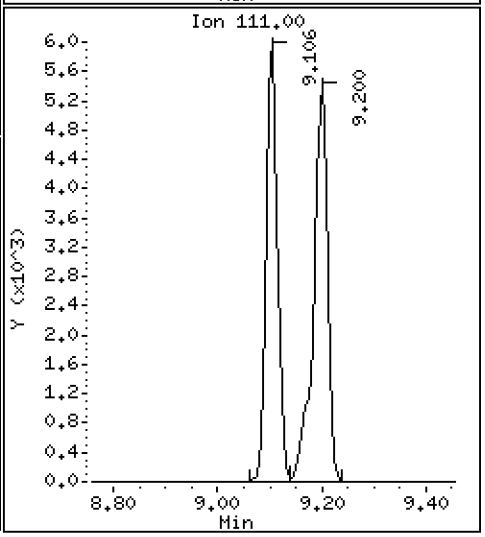


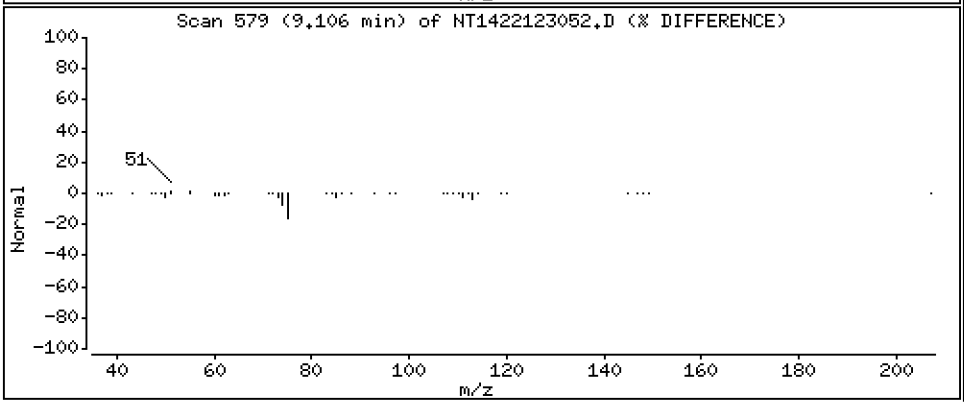












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

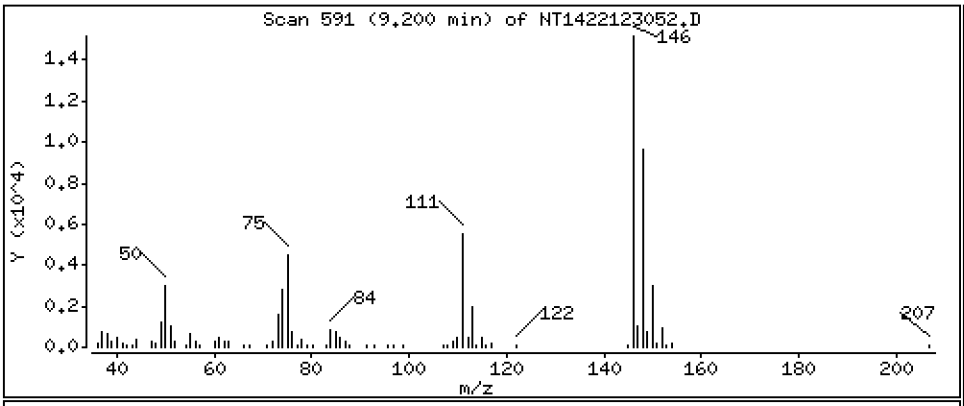
Operator: VTS

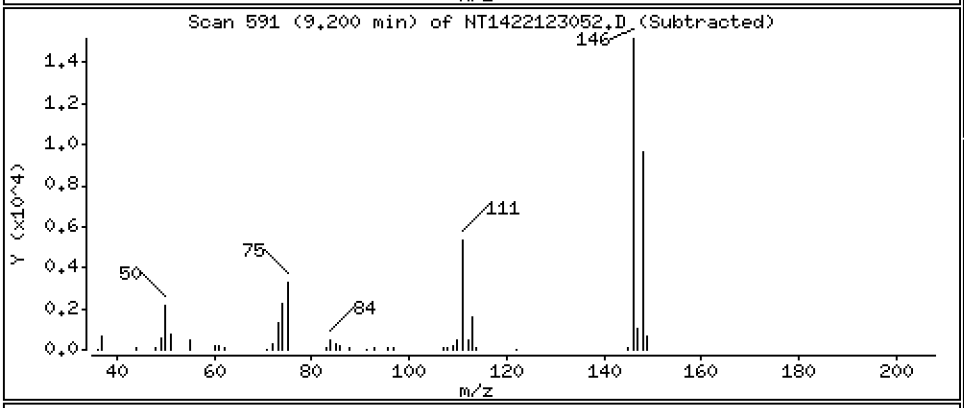
Column phase: ZB-5msi

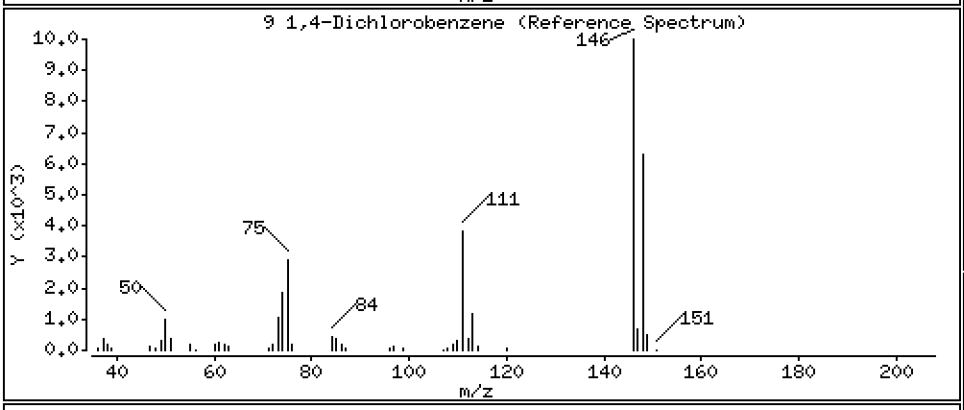
Column diameter: 0.25

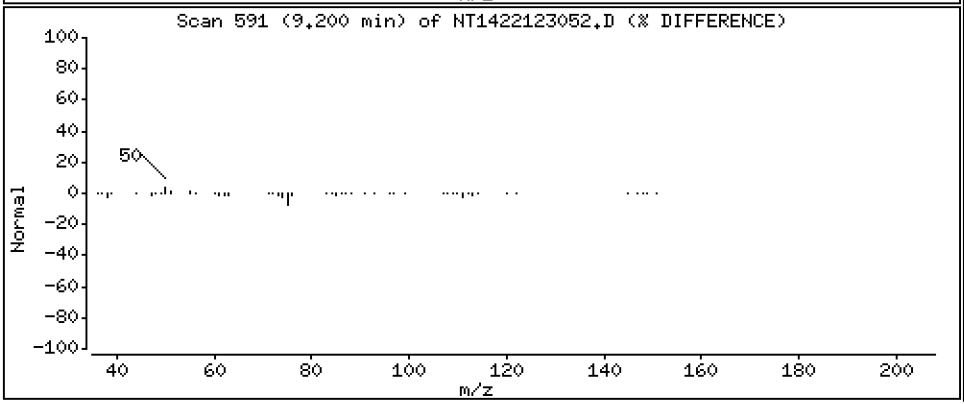
9 1,4-Dichlorobenzene

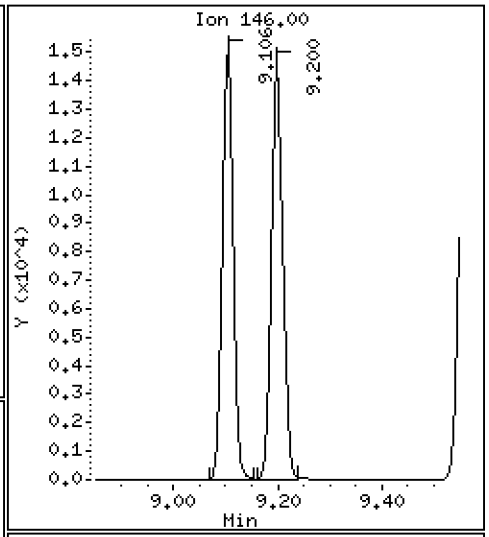
Concentration: 0.4924 ug/mL

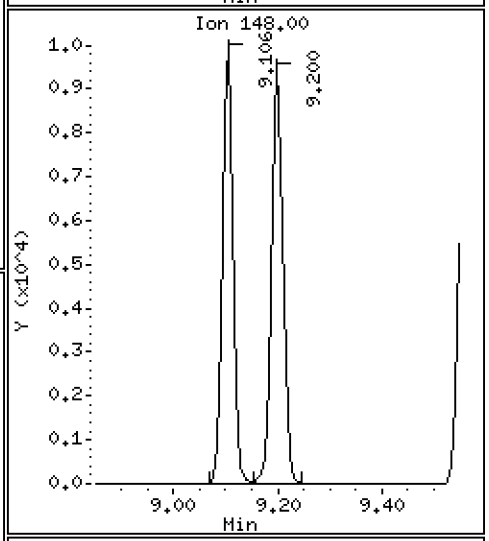


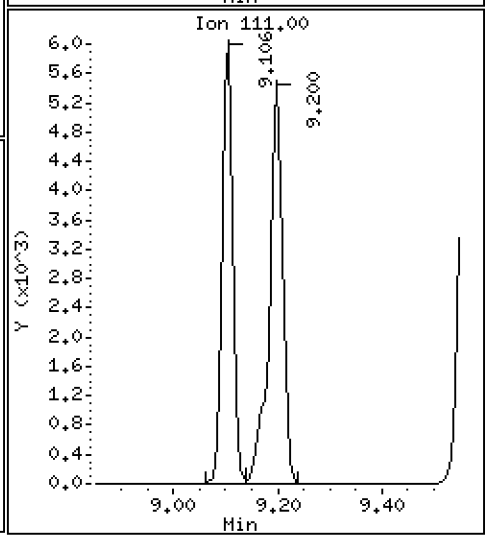












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

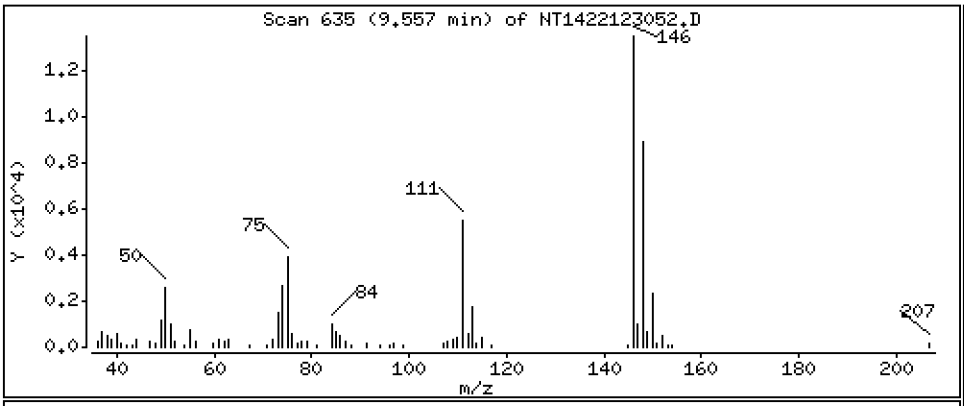
Operator: VTS

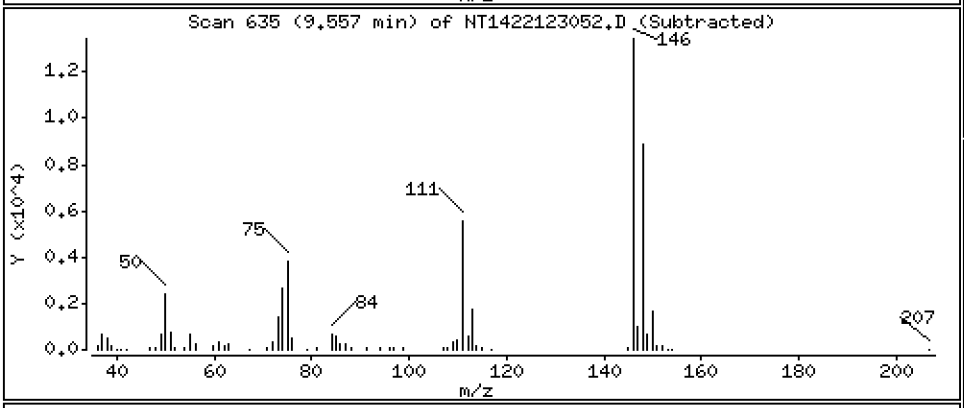
Column phase: ZB-5msi

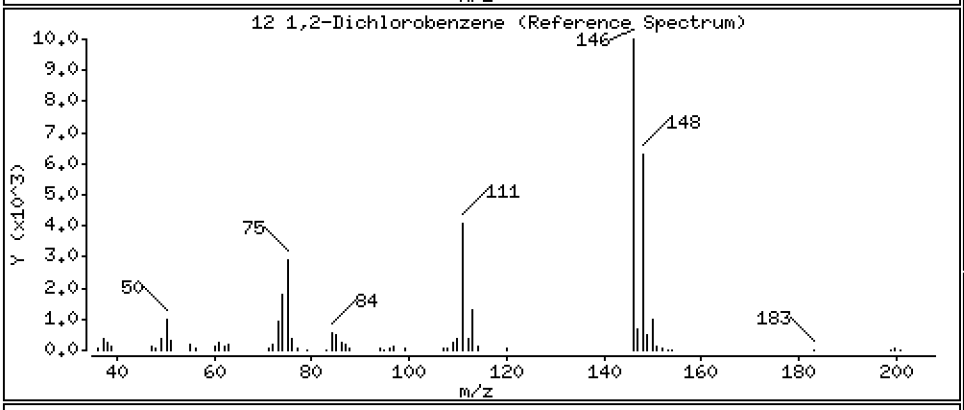
Column diameter: 0.25

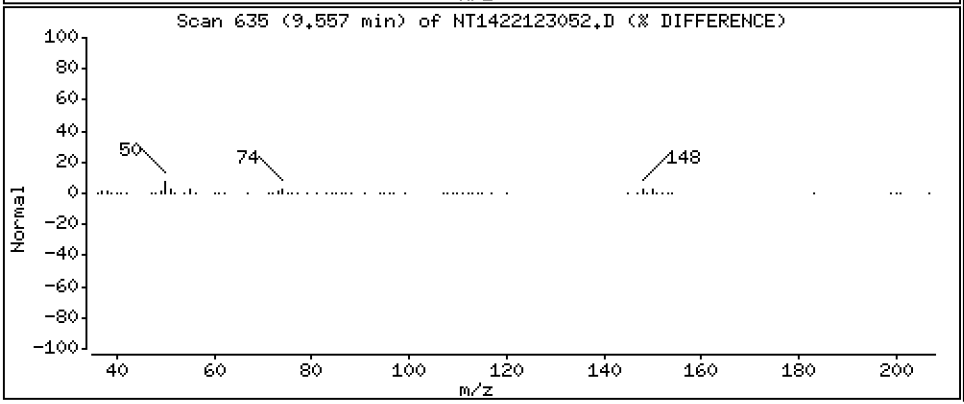
12 1,2-Dichlorobenzene

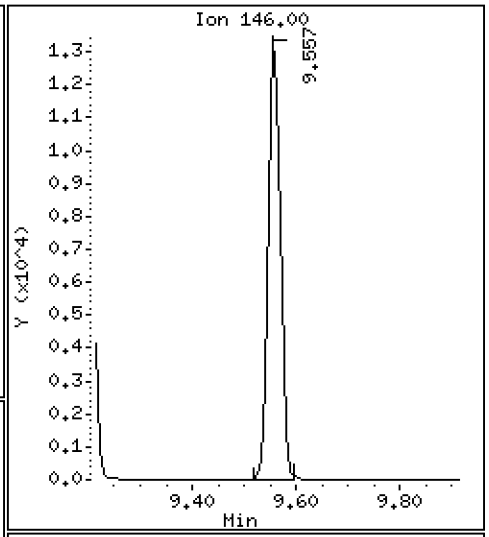
Concentration: 0.4842 ug/mL

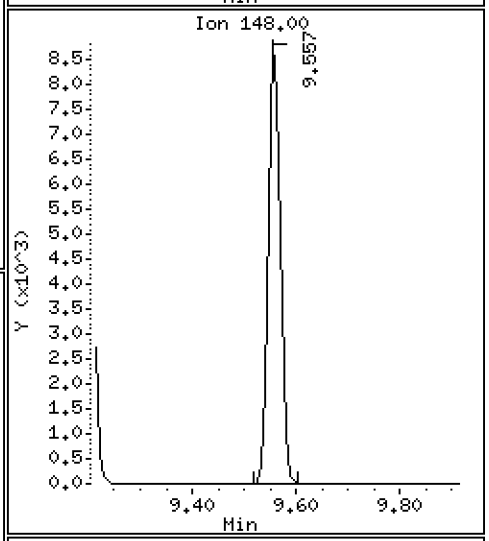


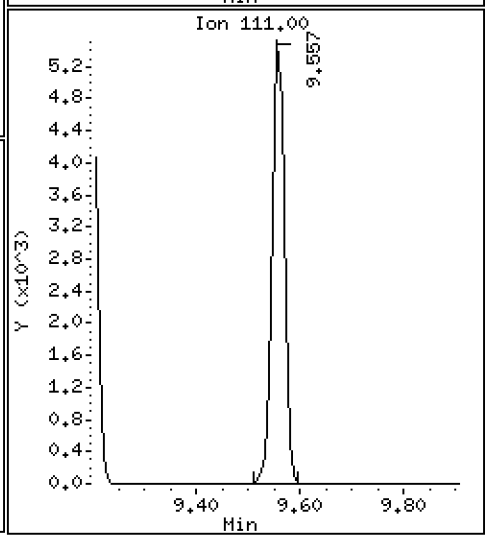












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

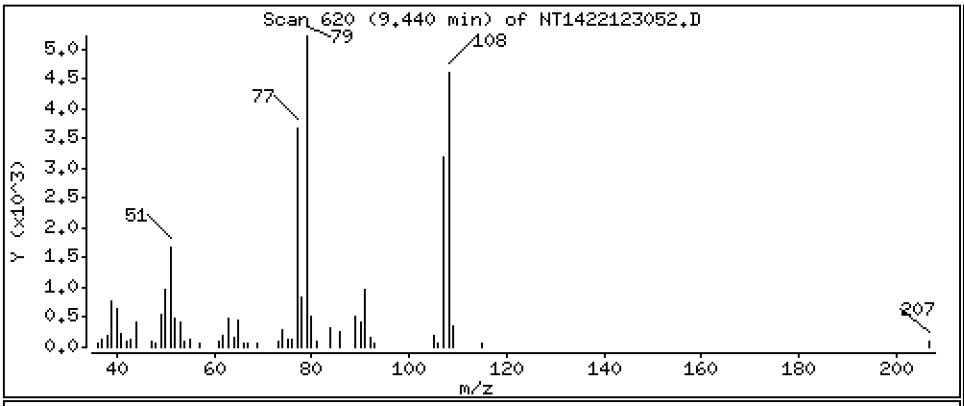
Operator: VTS

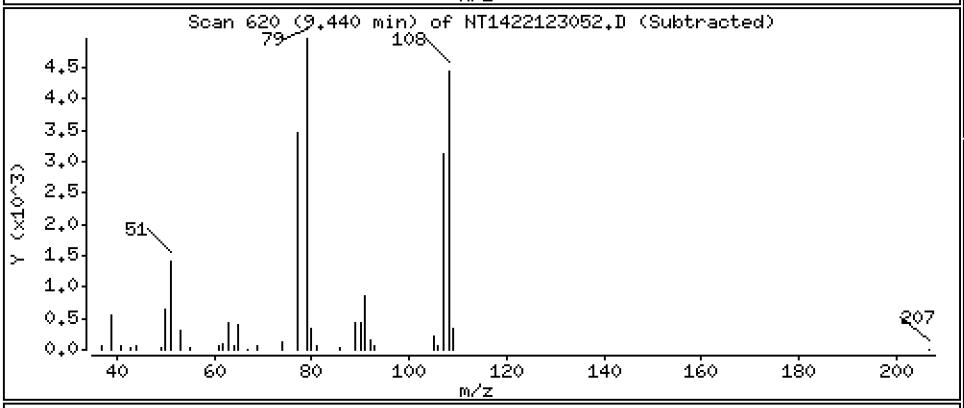
Column phase: ZB-5msi

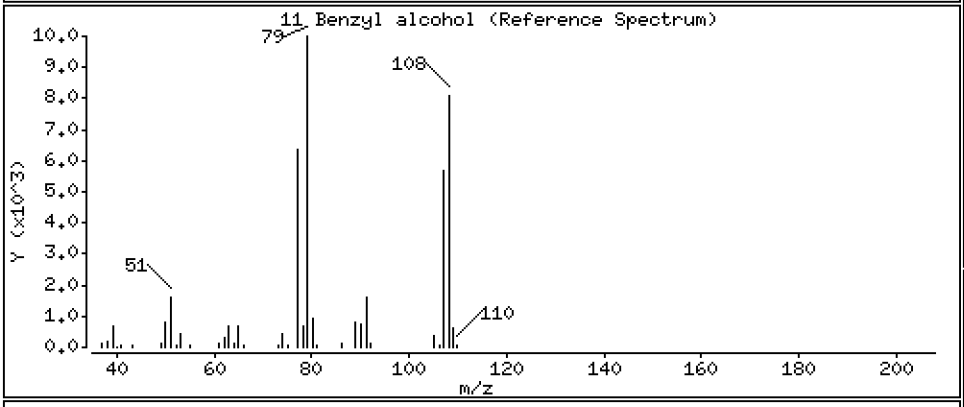
Column diameter: 0.25

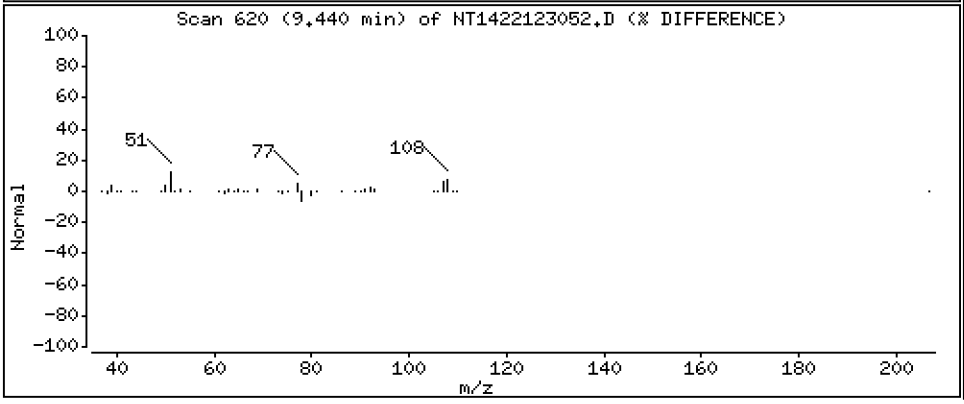
11 Benzyl alcohol

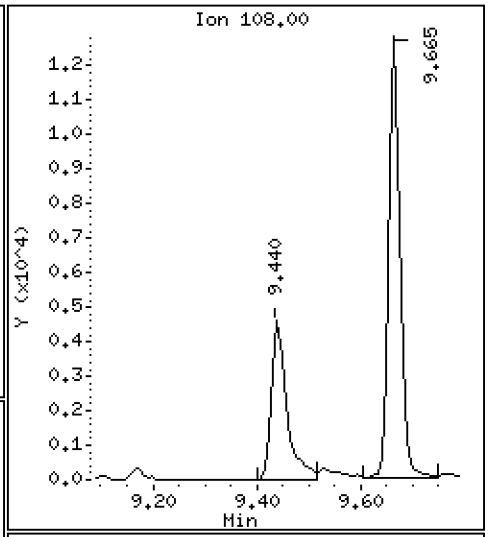
Concentration: 0.3788 ug/mL

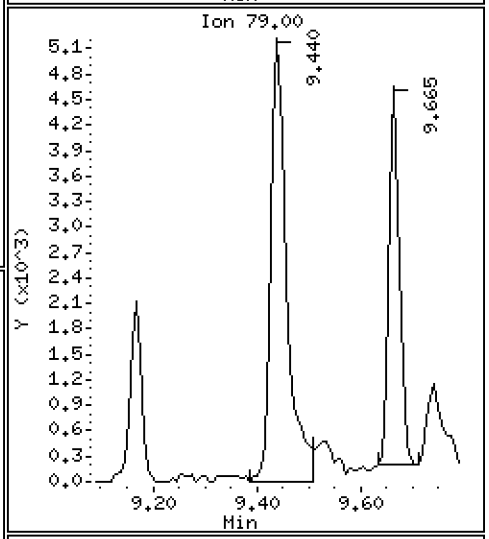


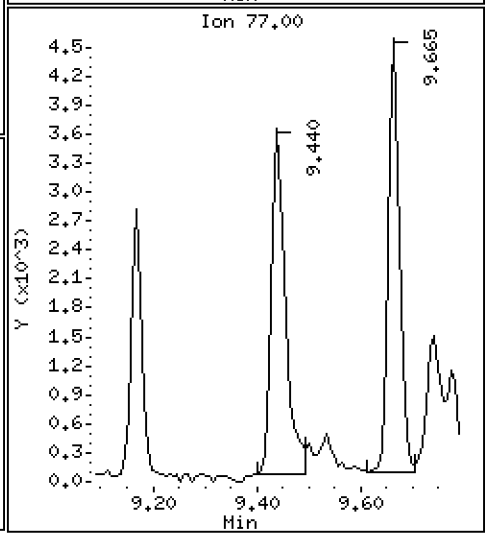












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

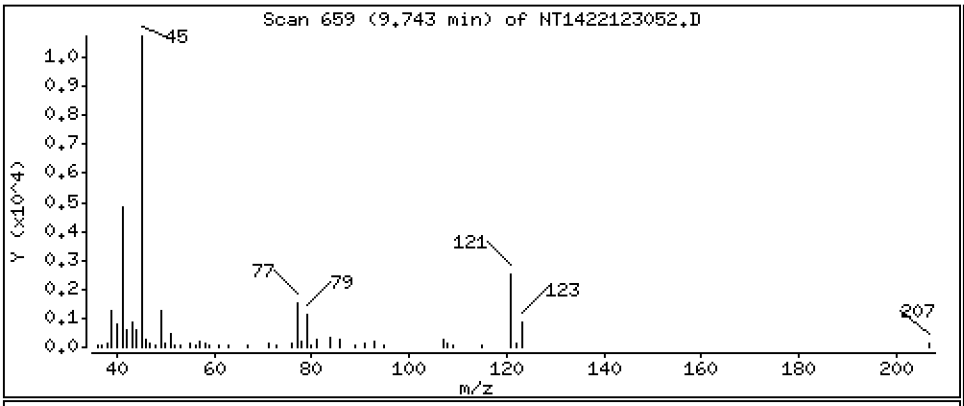
Operator: VTS

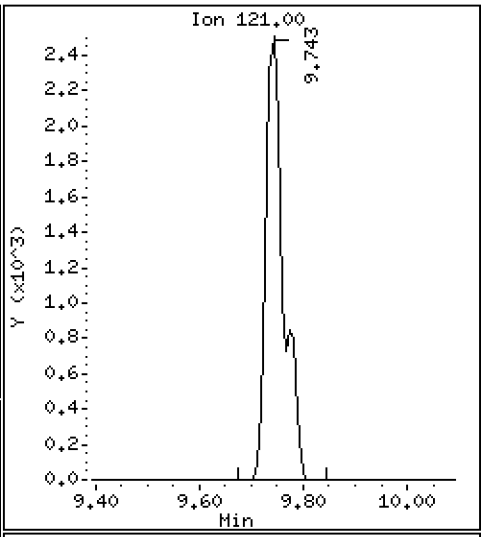
Column phase: ZB-5msi

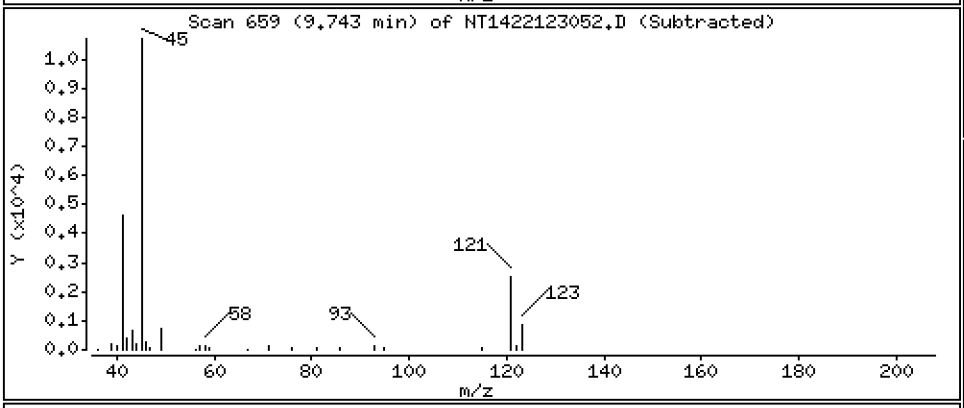
Column diameter: 0.25

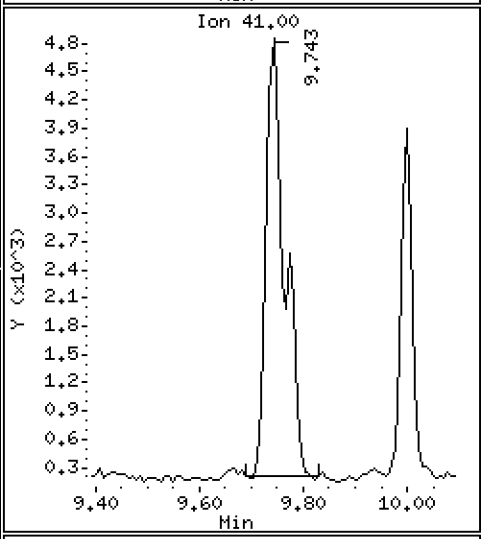
14 2,2'-oxybis(1-Chloropropane)

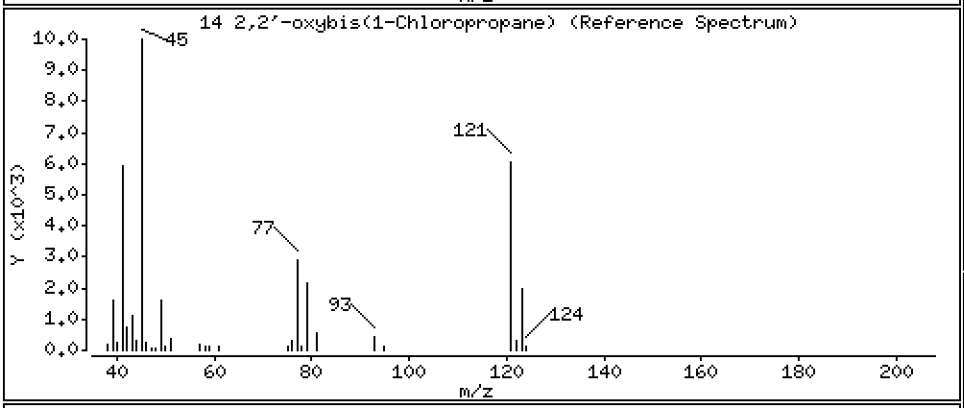
Concentration: 0.4614 ug/mL

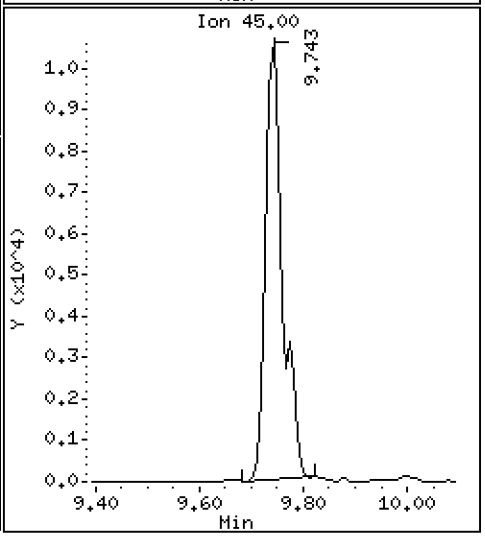


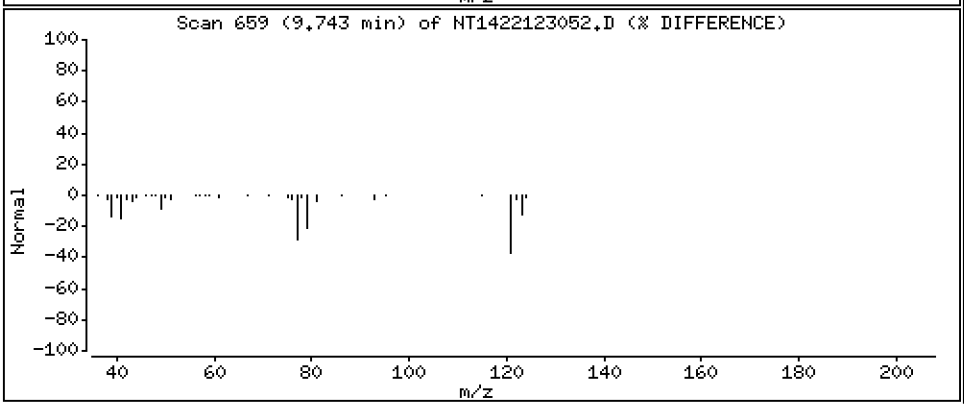












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

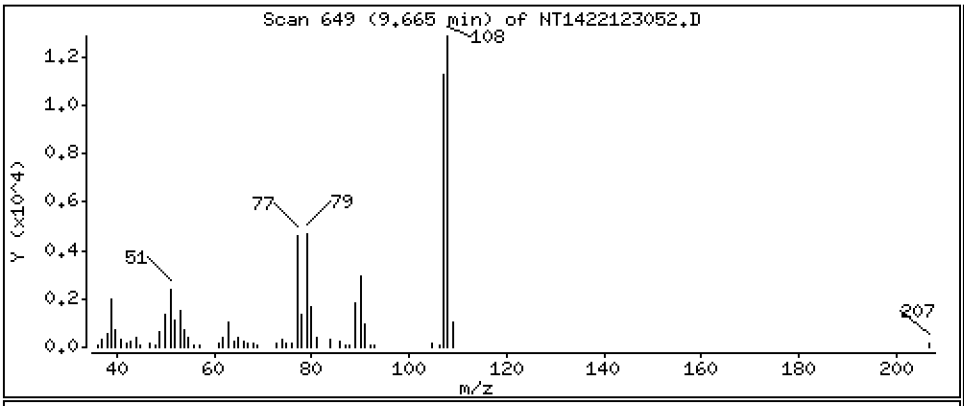
Operator: VTS

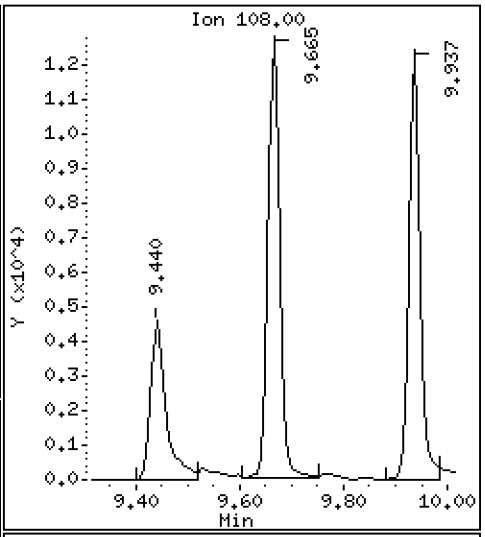
Column phase: ZB-5msi

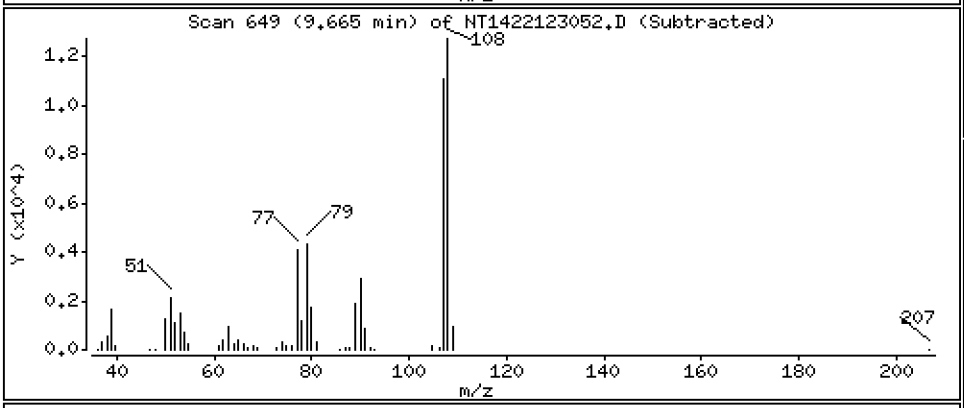
Column diameter: 0.25

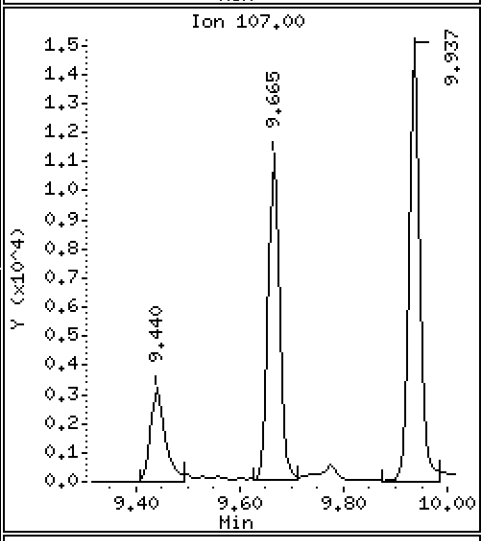
13 2-Methylphenol

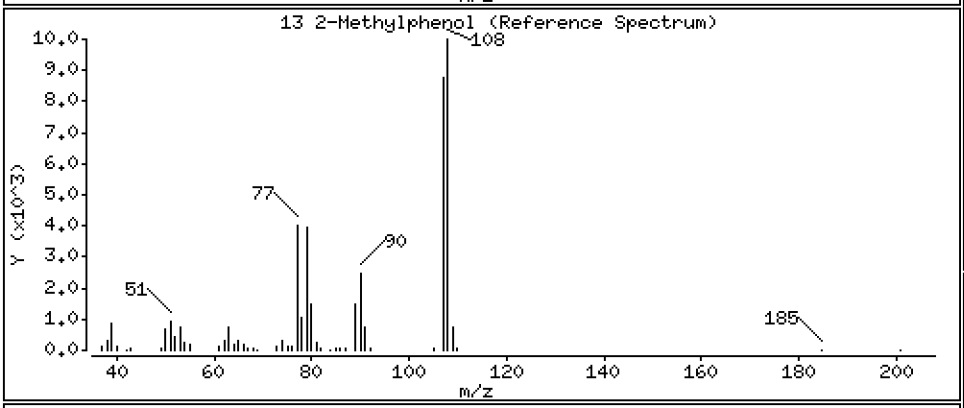
Concentration: 0.4833 ug/mL

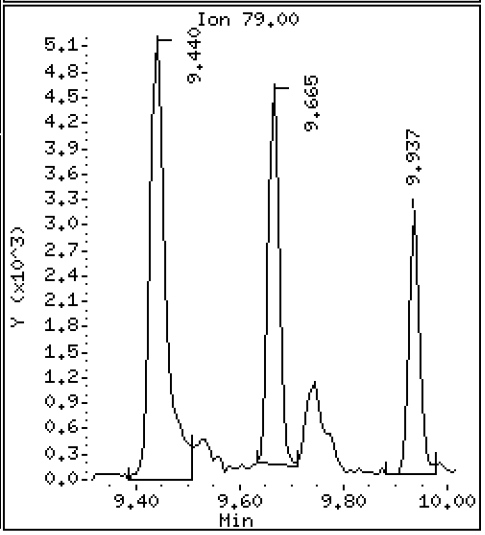


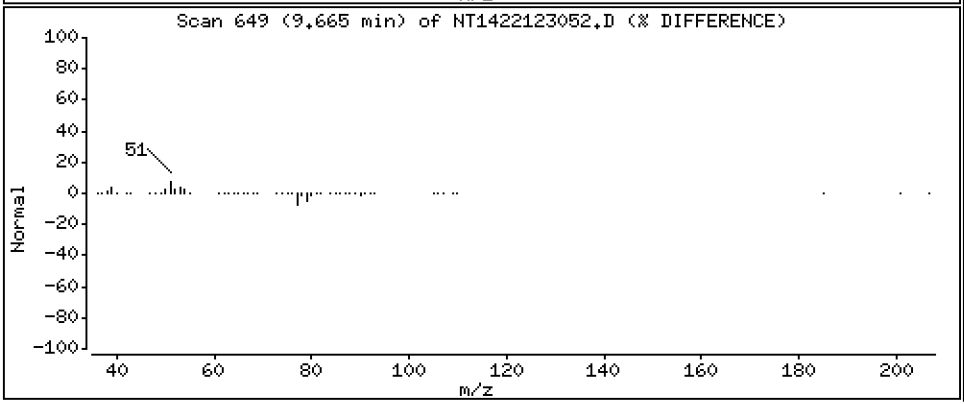












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

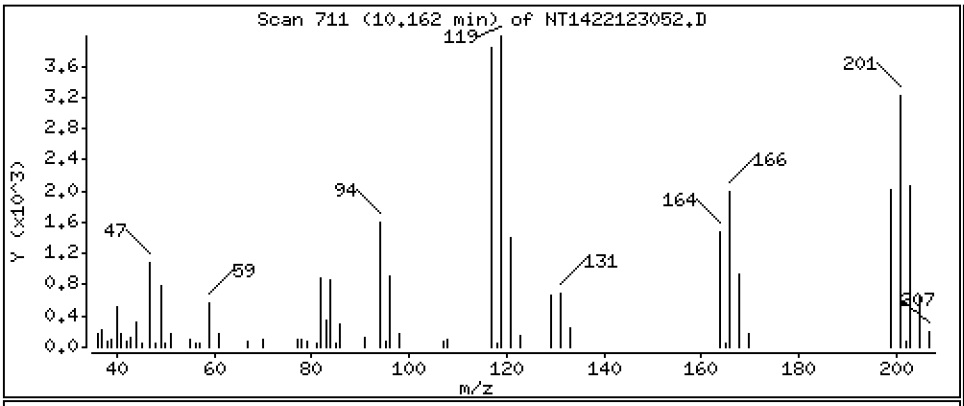
Operator: VTS

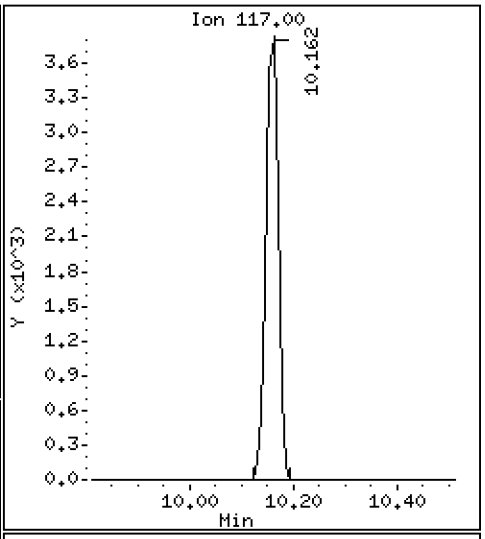
Column phase: ZB-5msi

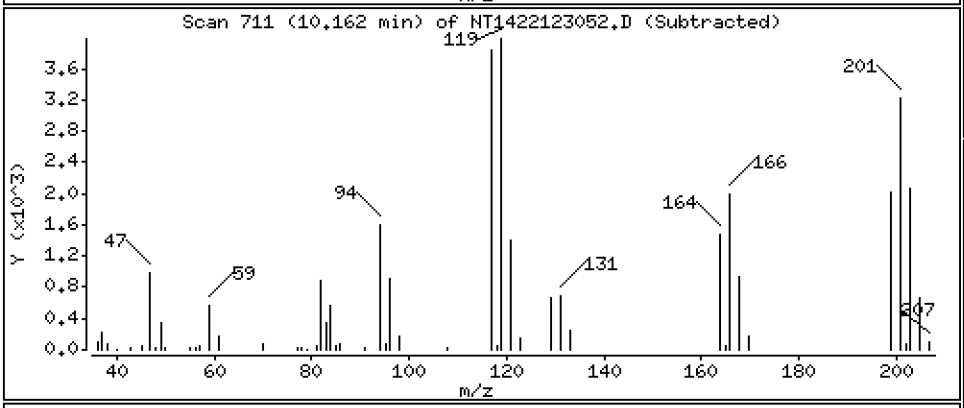
Column diameter: 0.25

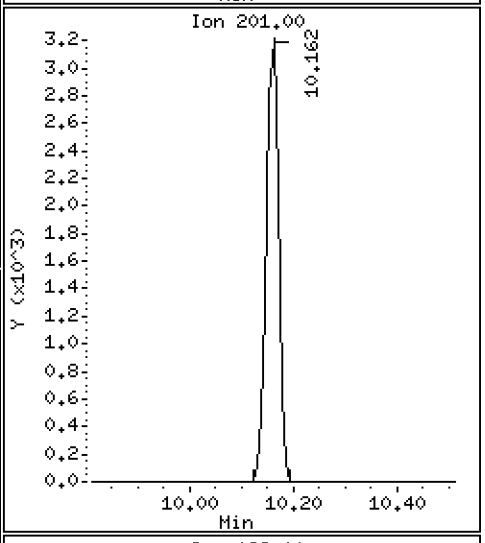
17 Hexachloroethane

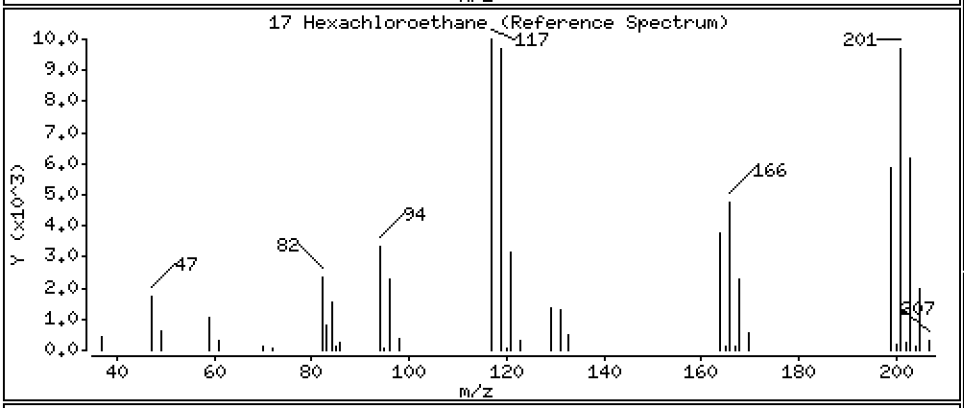
Concentration: 0.3728 ug/mL

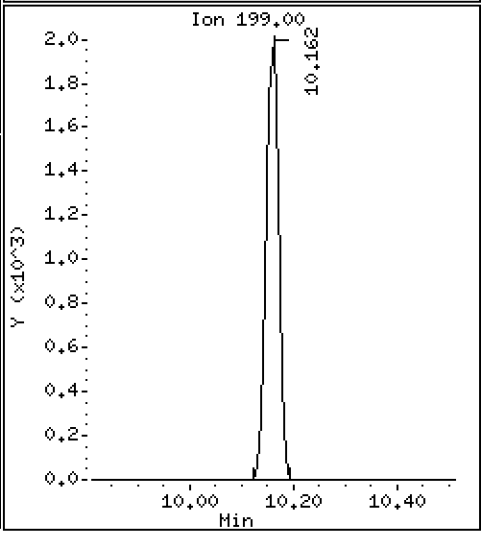


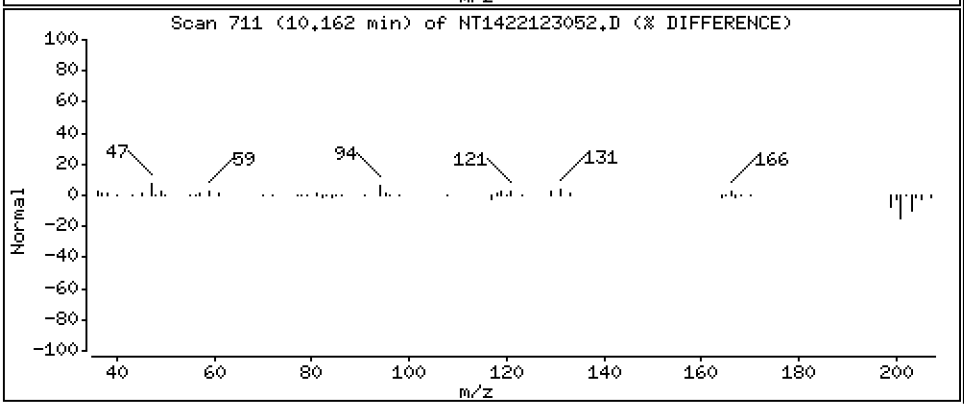












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

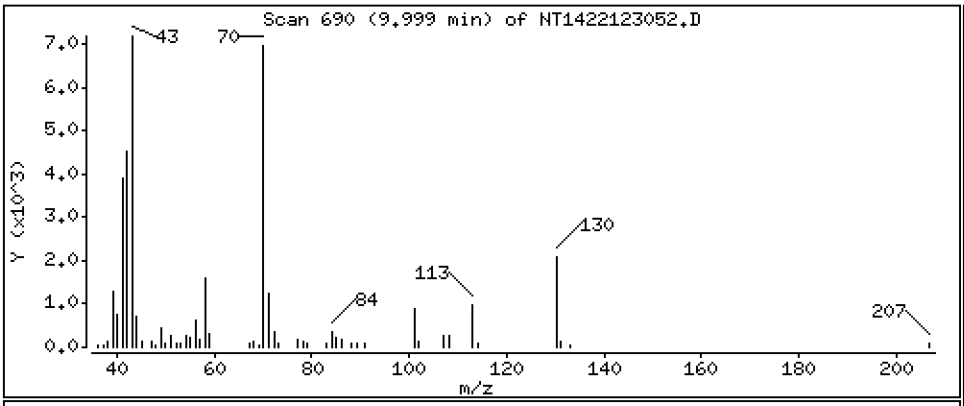
Operator: VTS

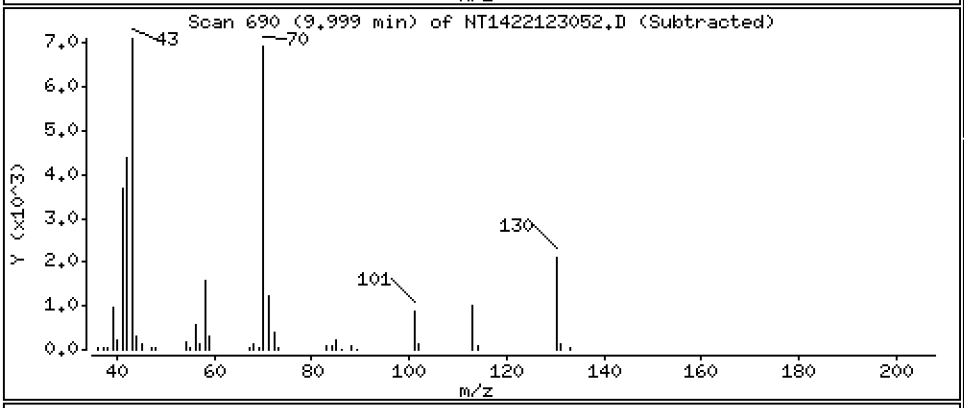
Column phase: ZB-5msi

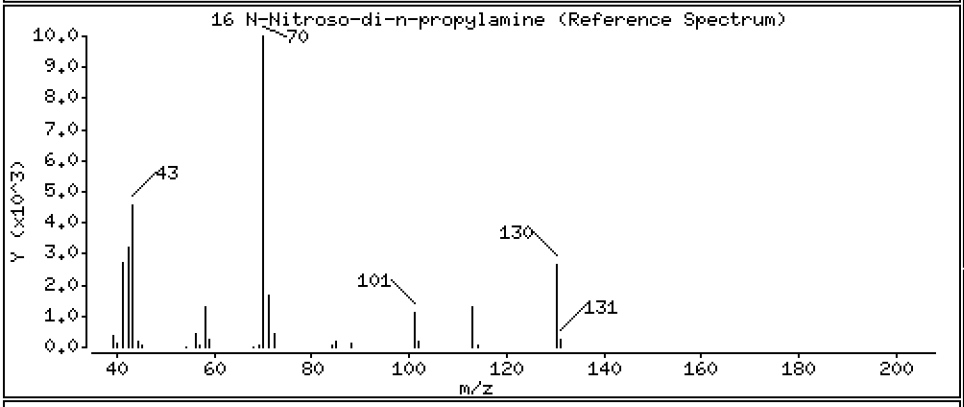
Column diameter: 0.25

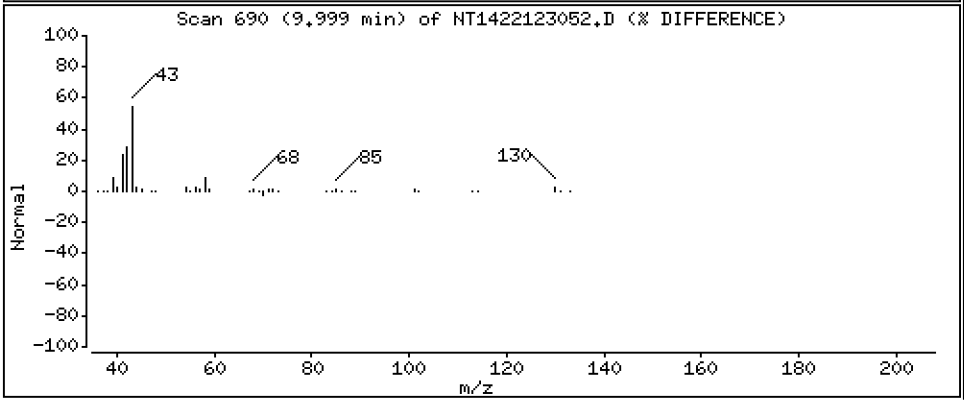
16 N-Nitroso-di-n-propylamine

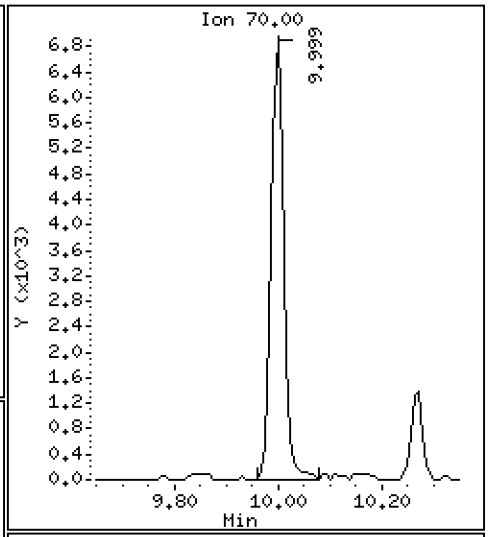
Concentration: 0.4654 ug/mL

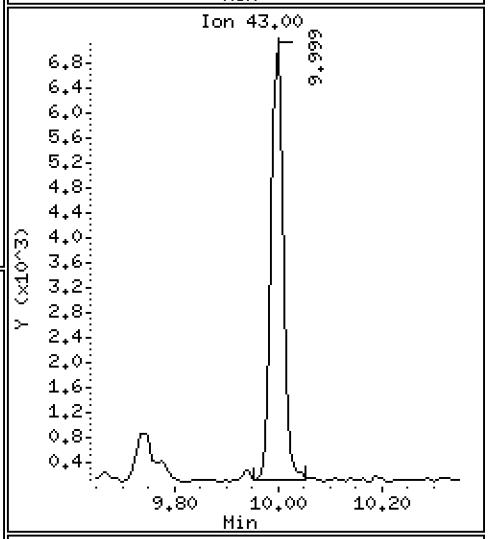


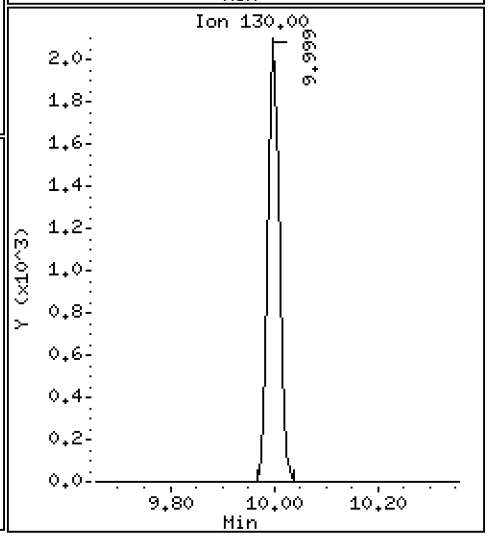












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

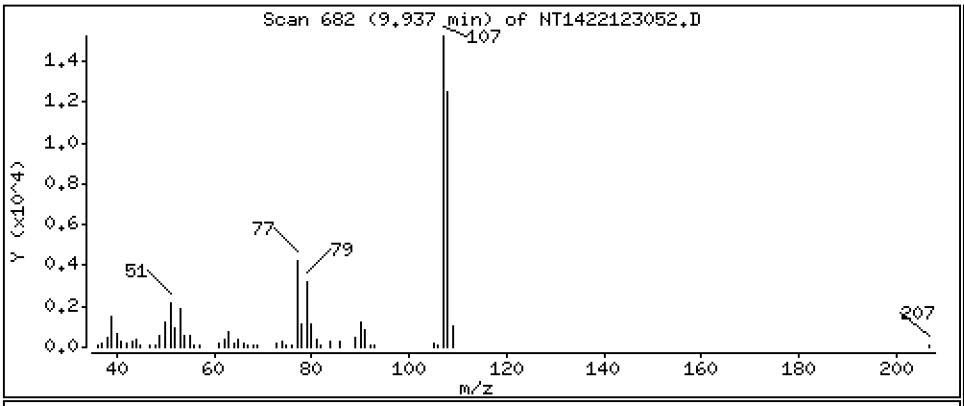
Operator: VTS

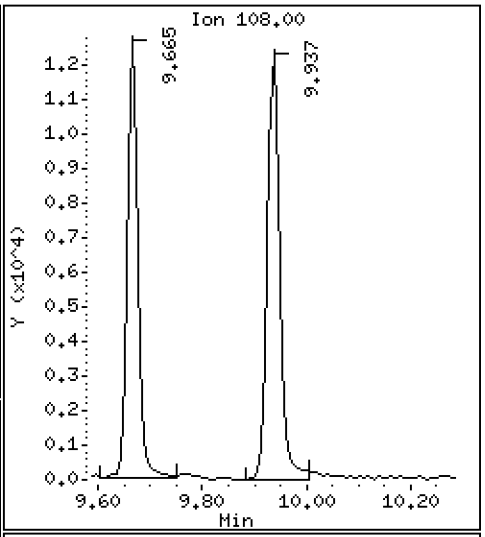
Column phase: ZB-5msi

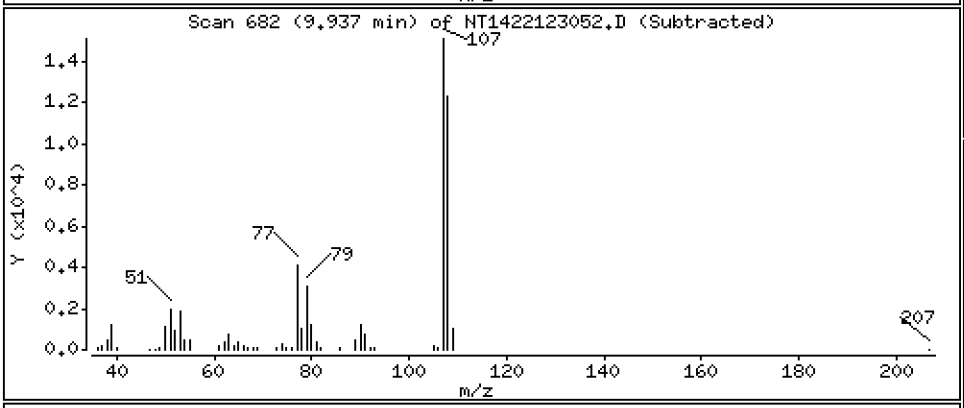
Column diameter: 0.25

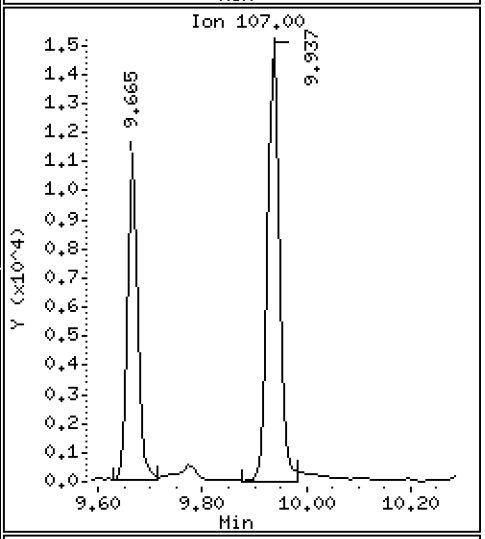
15 4-Methylphenol

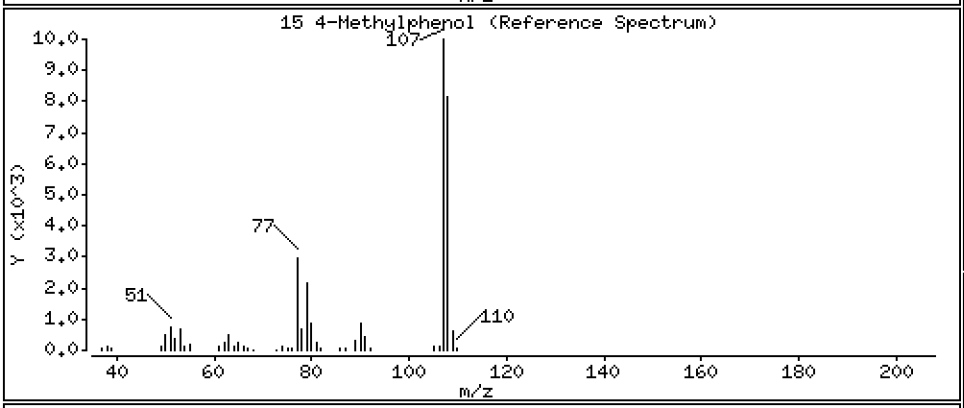
Concentration: 0.4747 ug/mL

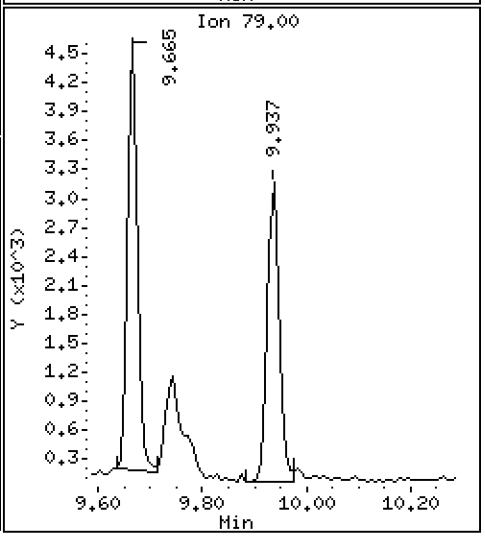


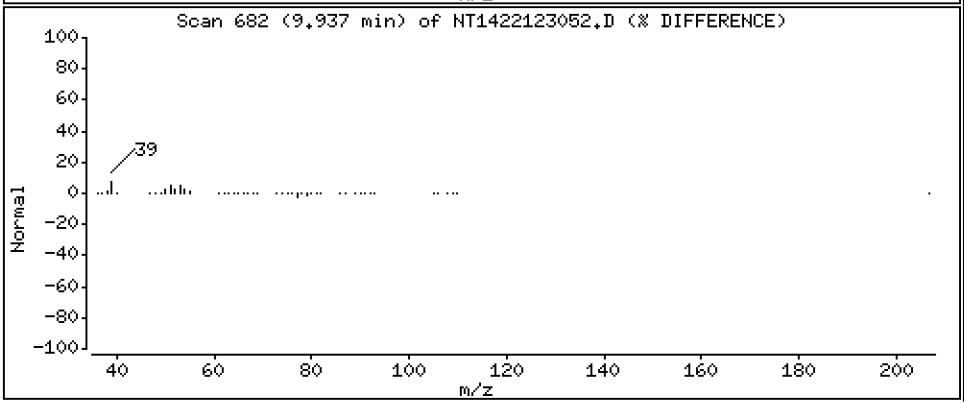












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

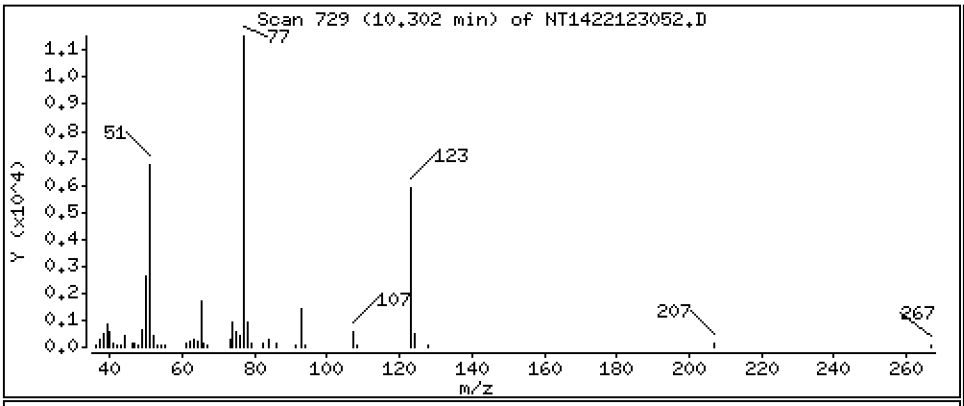
Operator: VTS

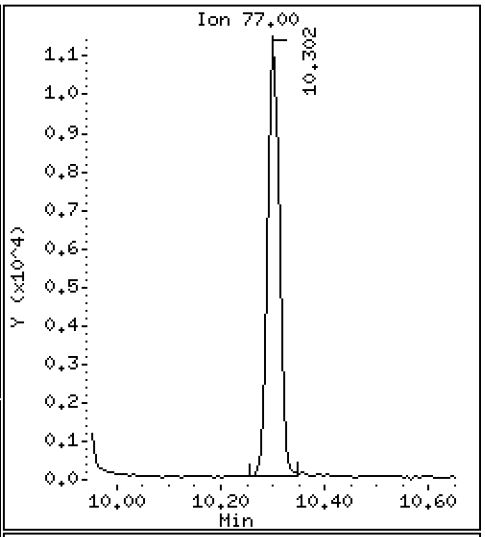
Column phase: ZB-5msi

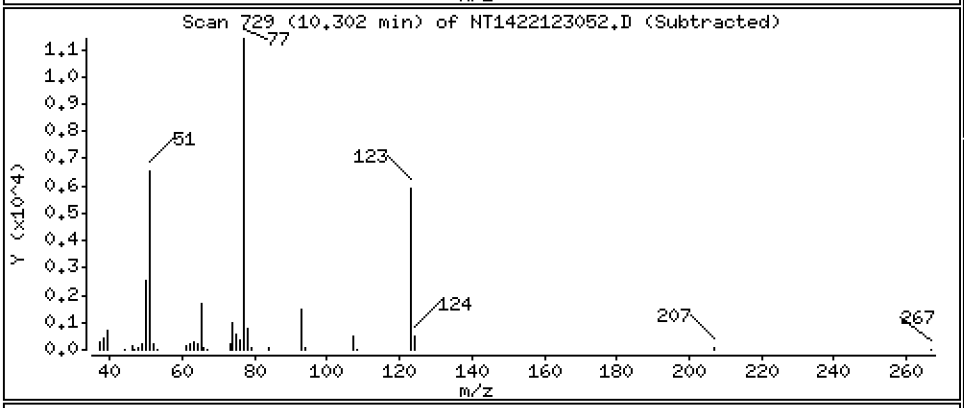
Column diameter: 0.25

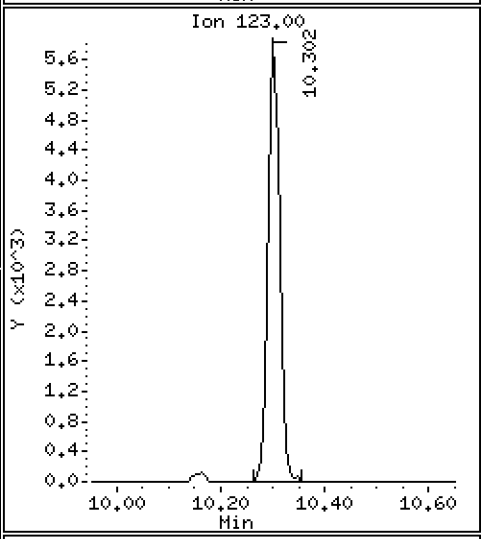
19 Nitrobenzene

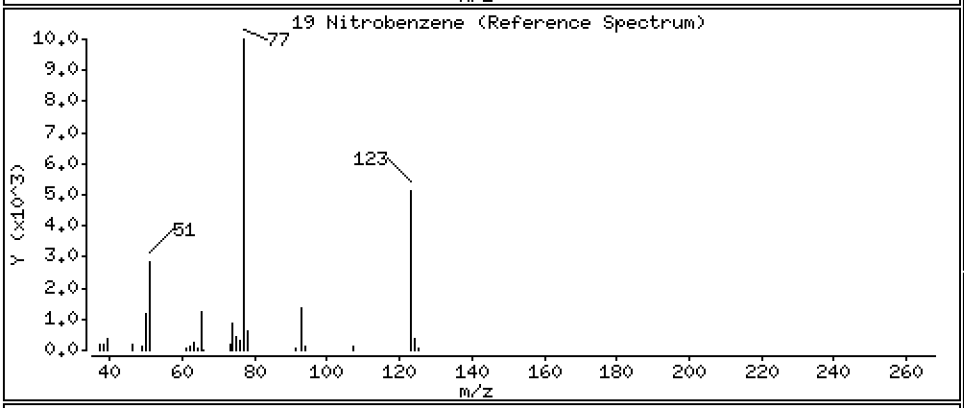
Concentration: 0.4641 ug/mL

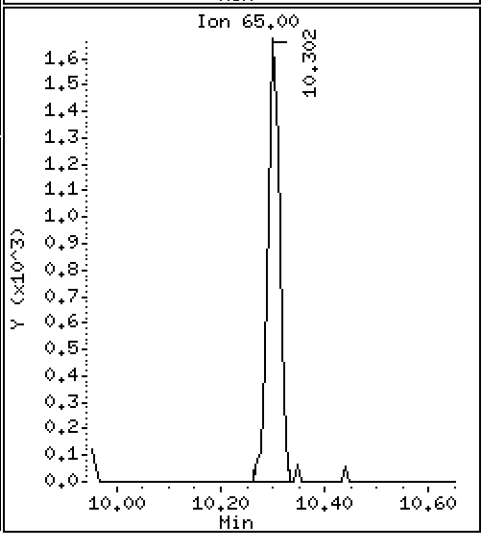


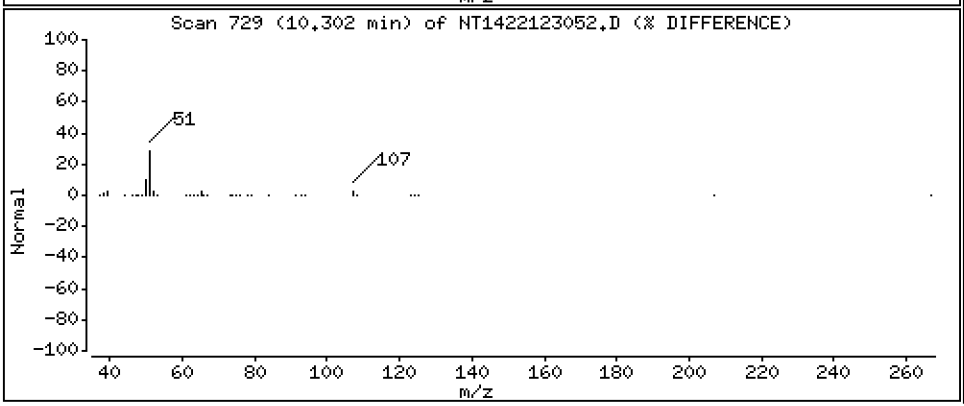












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

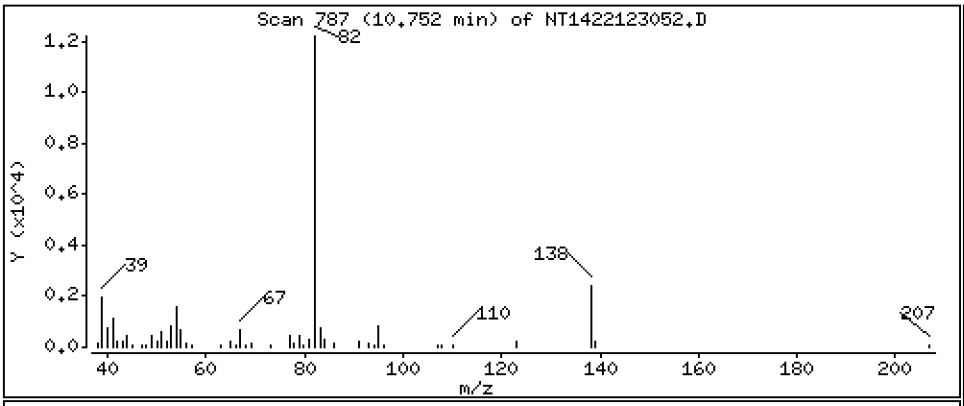
Operator: VTS

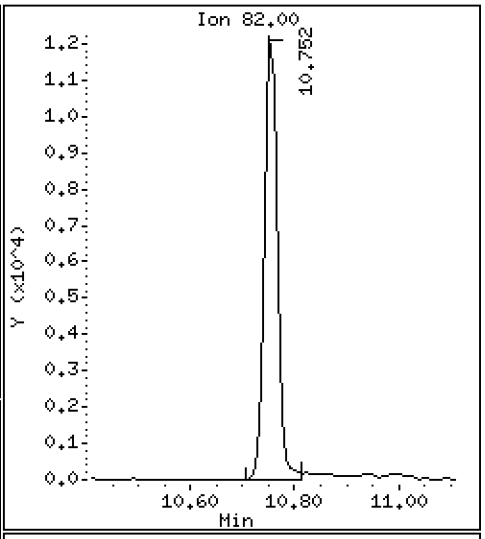
Column phase: ZB-5msi

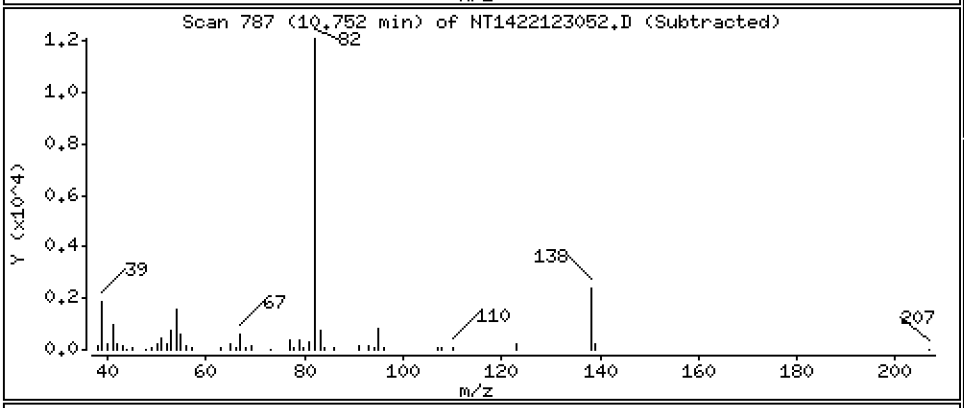
Column diameter: 0.25

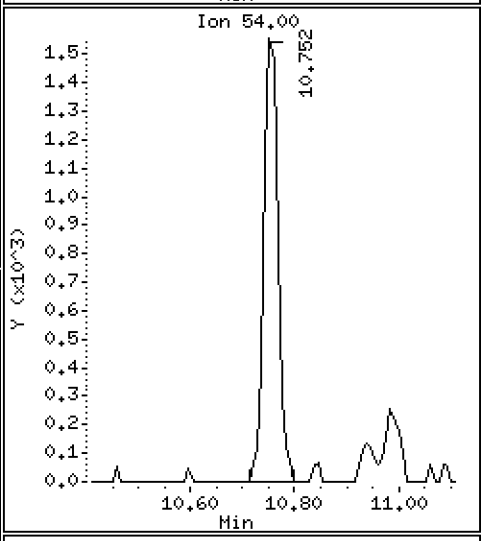
20 Isophorone

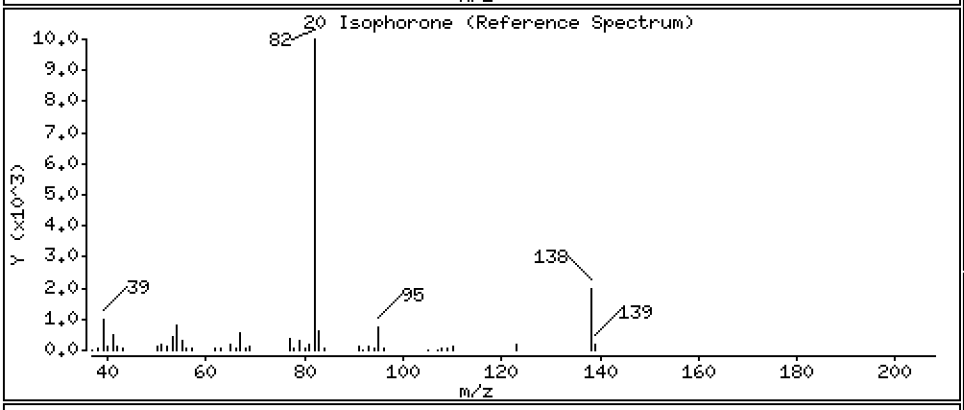
Concentration: 0.4317 ug/mL

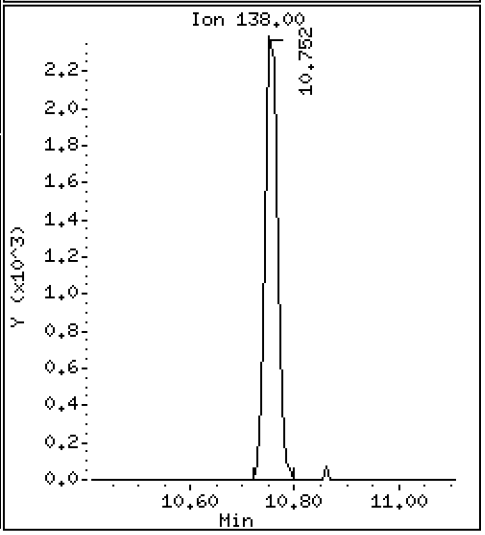


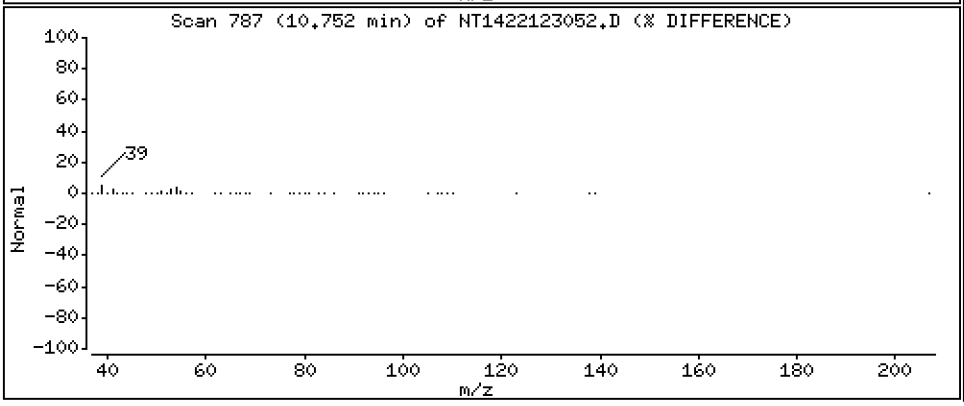












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

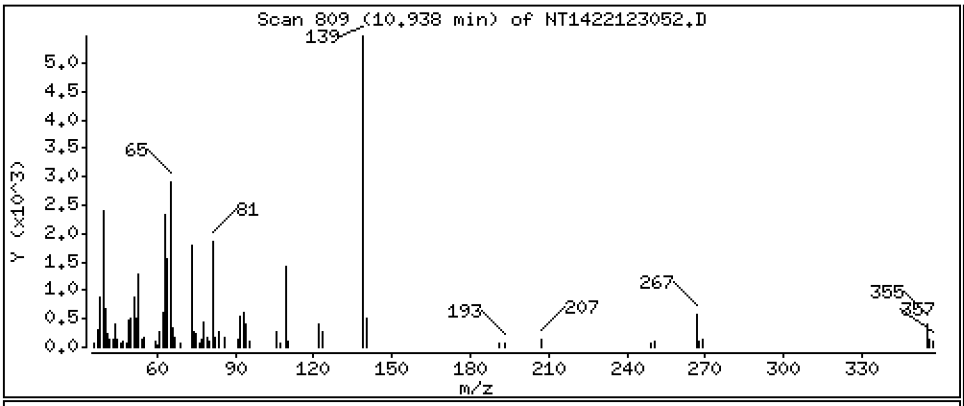
Operator: VTS

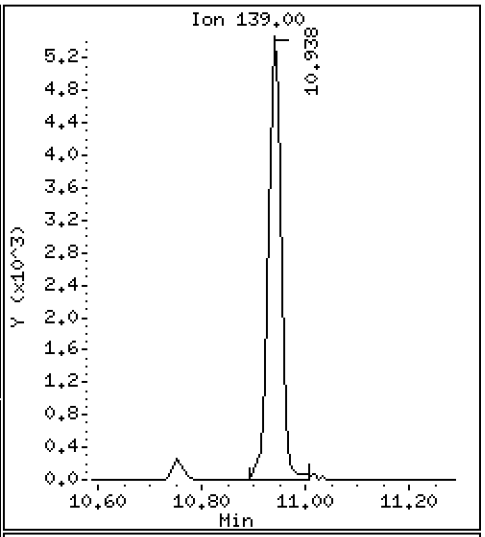
Column phase: ZB-5msi

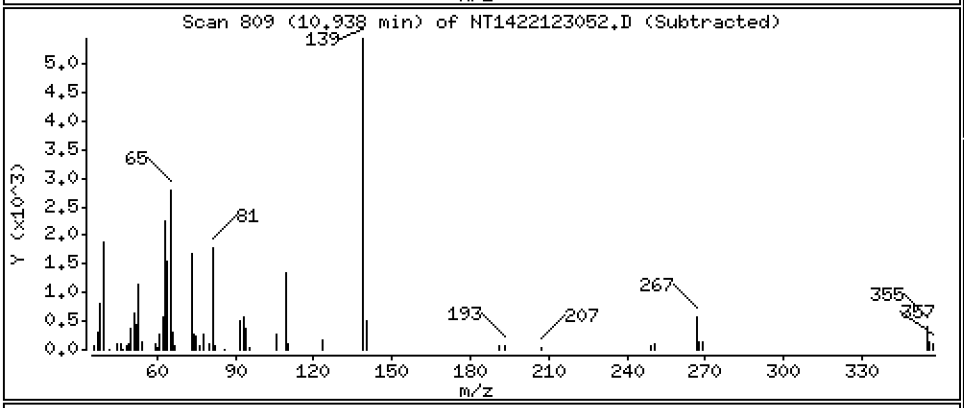
Column diameter: 0.25

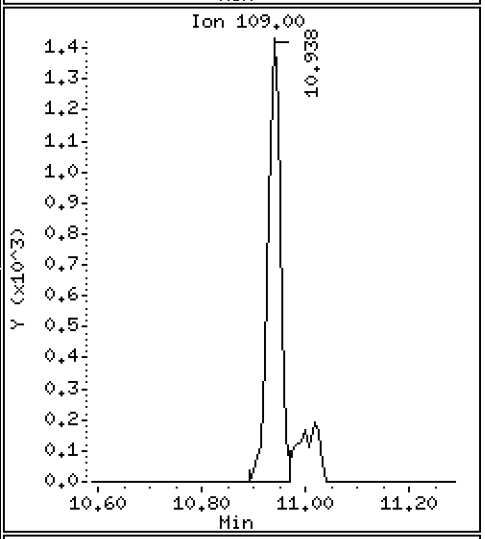
21 2-Nitrophenol

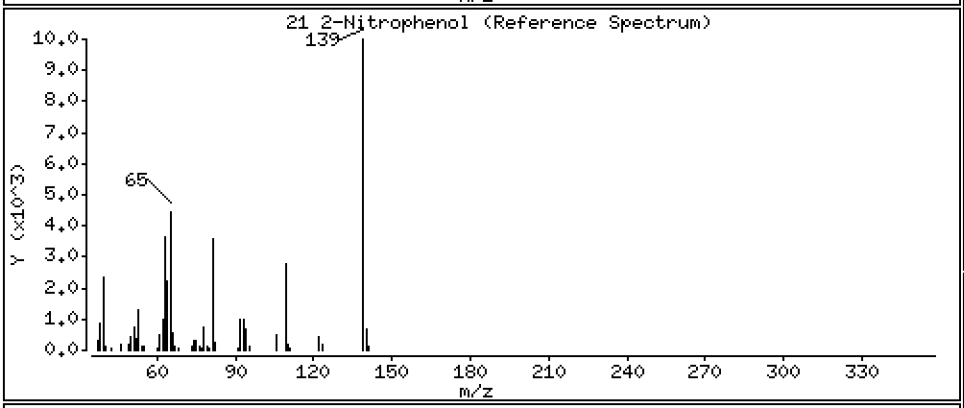
Concentration: 0.4561 ug/mL

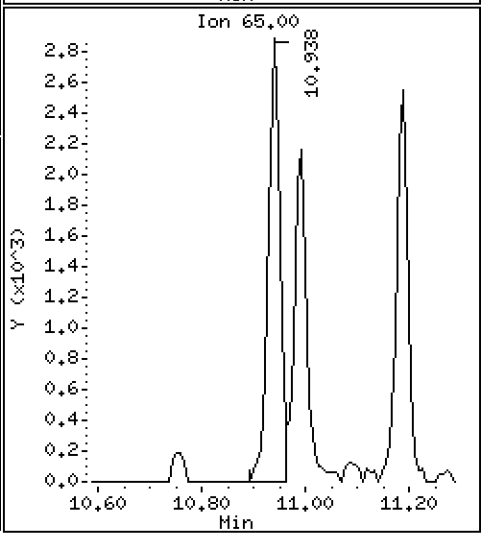


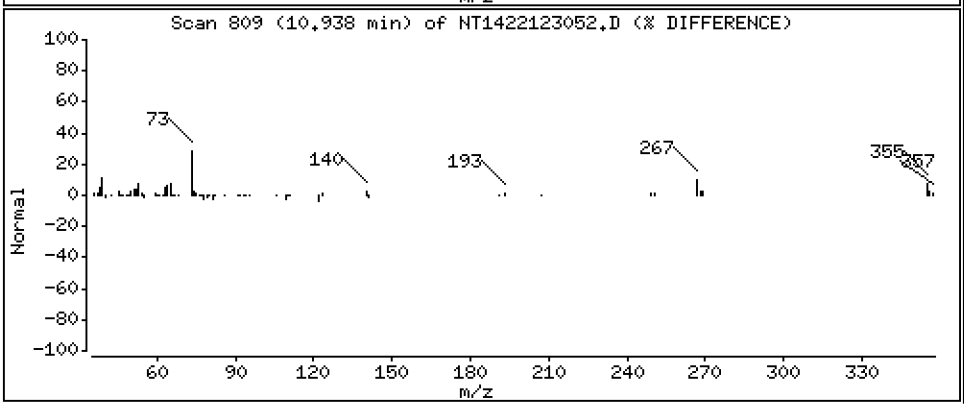












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

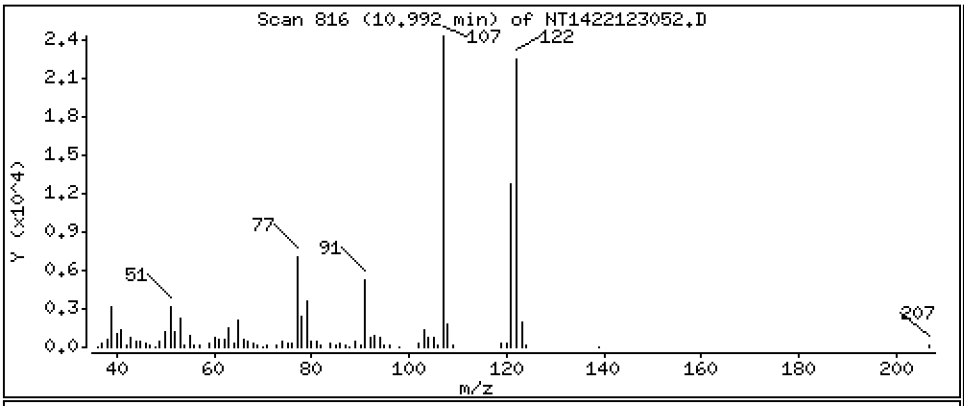
Operator: VTS

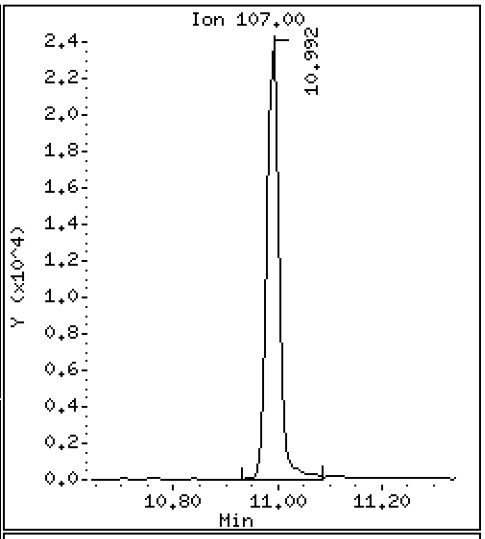
Column phase: ZB-5msi

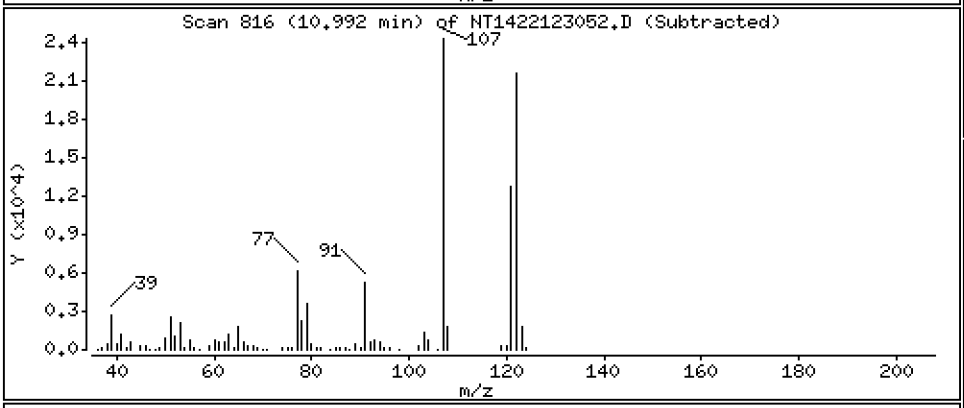
Column diameter: 0.25

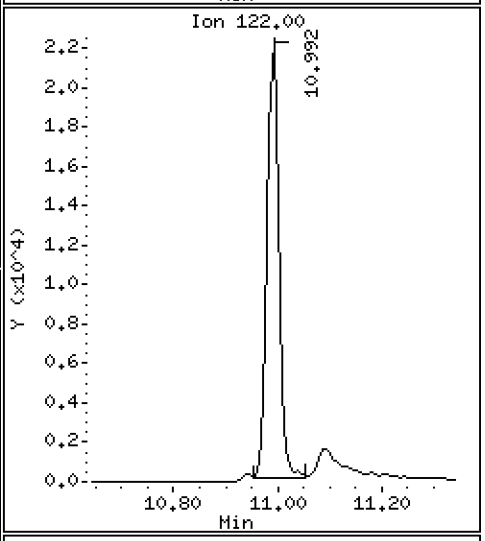
22 2,4-Dimethylphenol

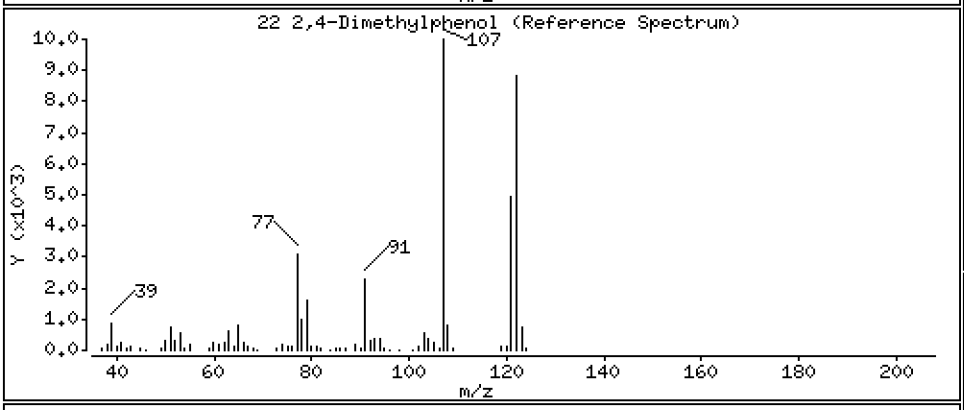
Concentration: 0.9882 ug/mL

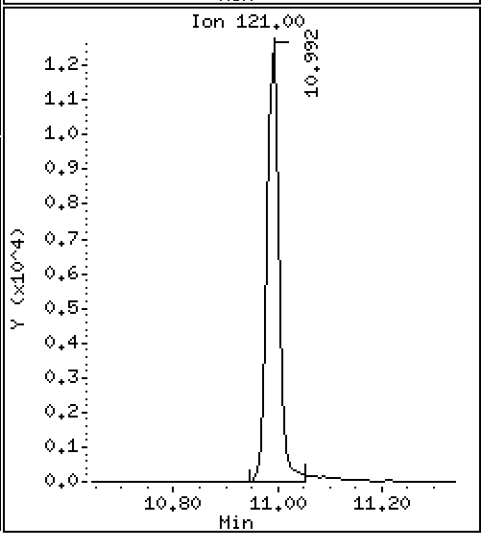


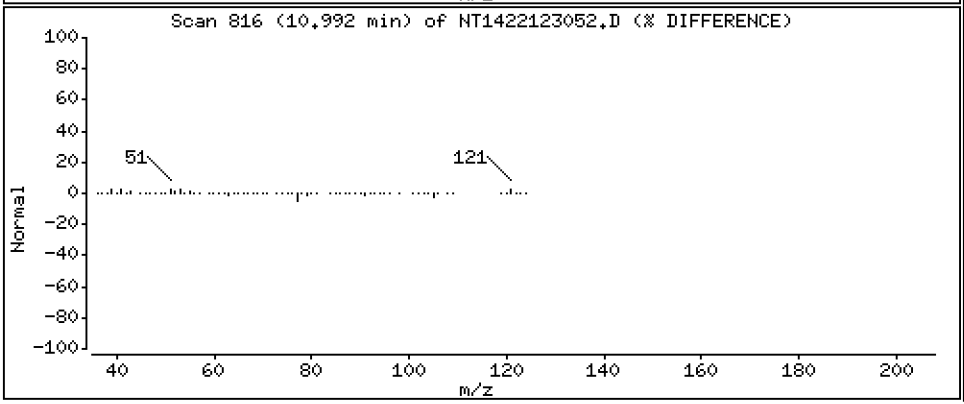












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

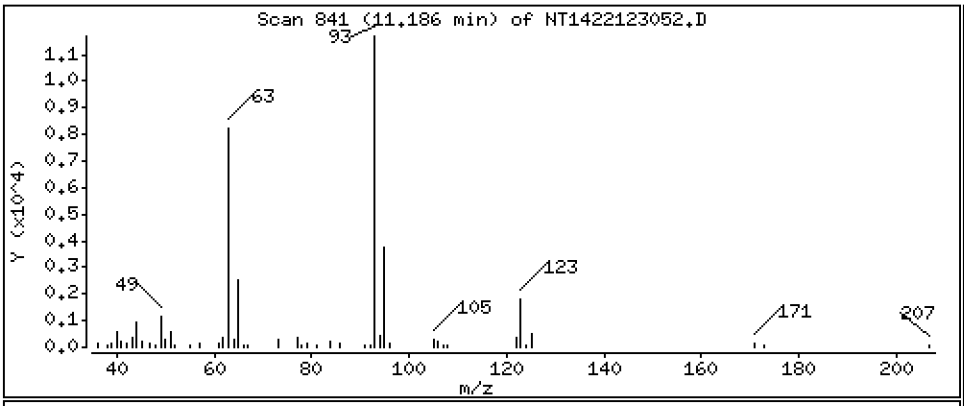
Operator: VTS

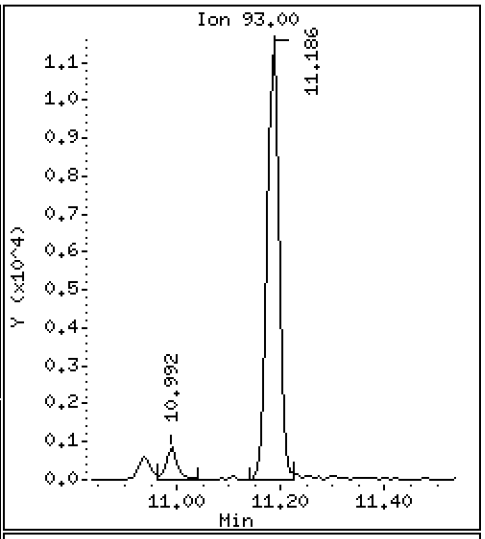
Column phase: ZB-5msi

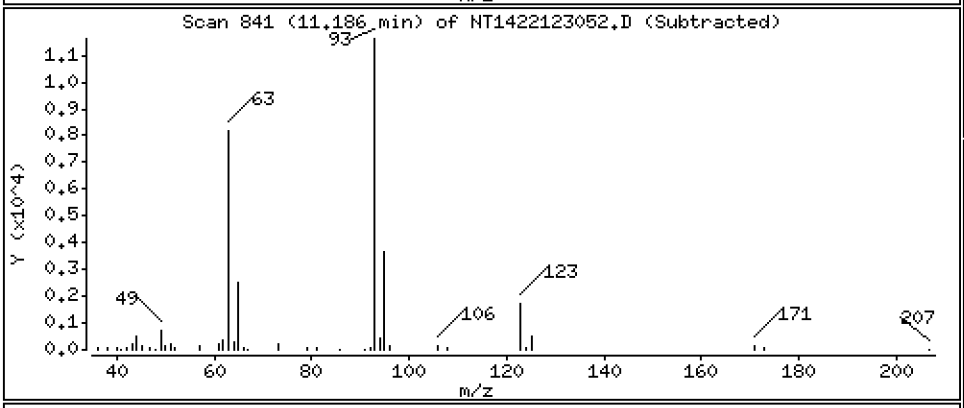
Column diameter: 0.25

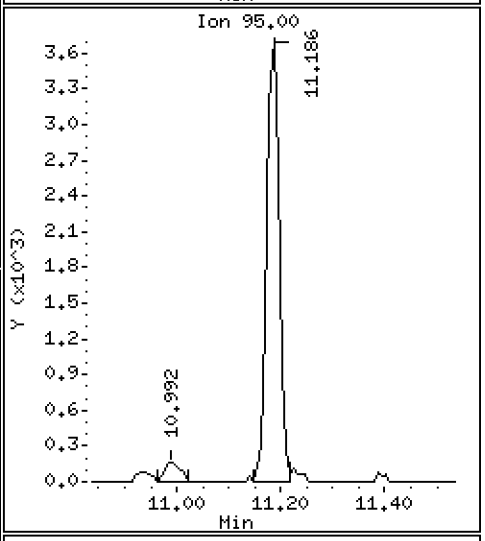
23 Bis(2-Chloroethoxy)methane

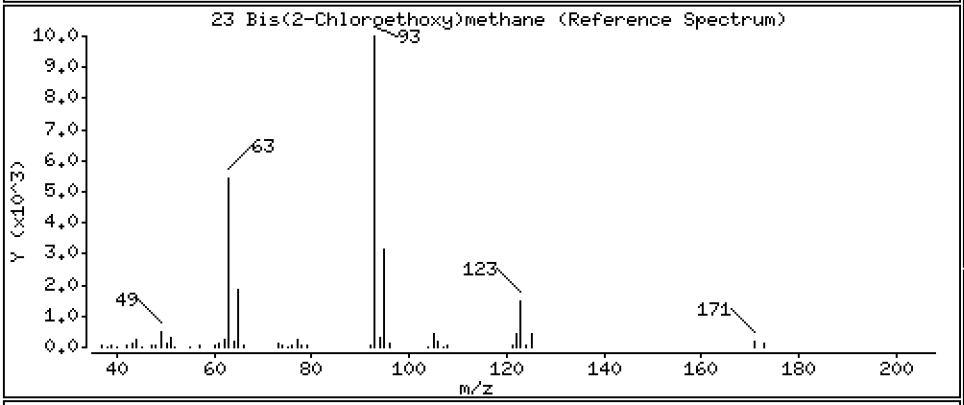
Concentration: 0.4840 ug/mL

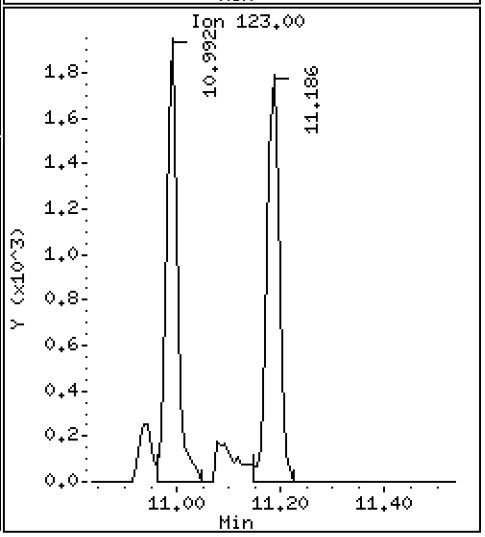


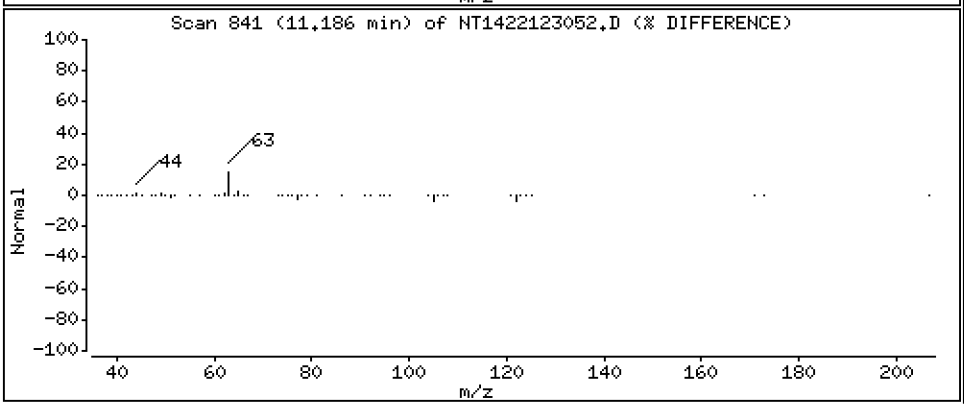












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

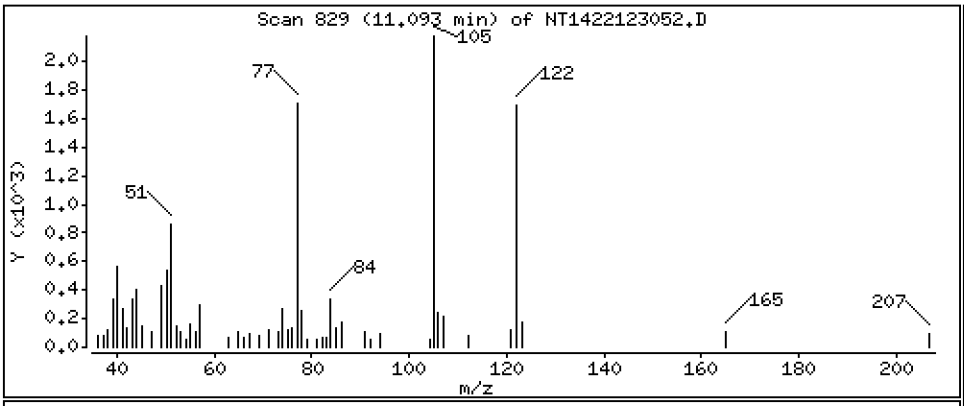
Operator: VTS

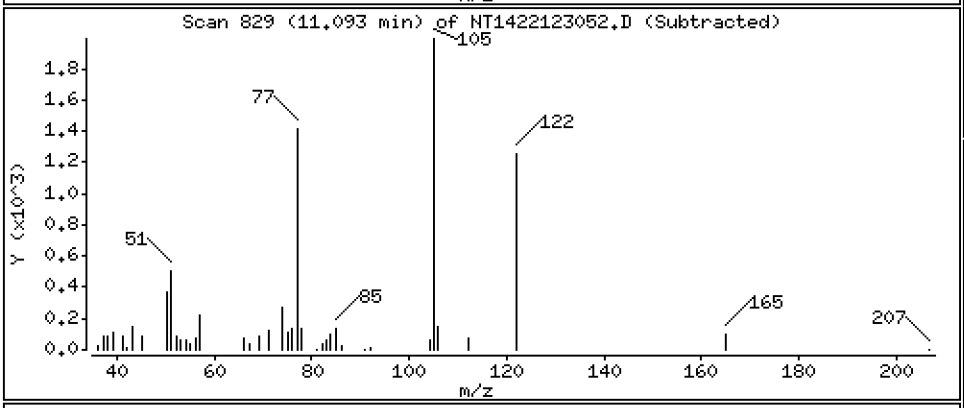
Column phase: ZB-5msi

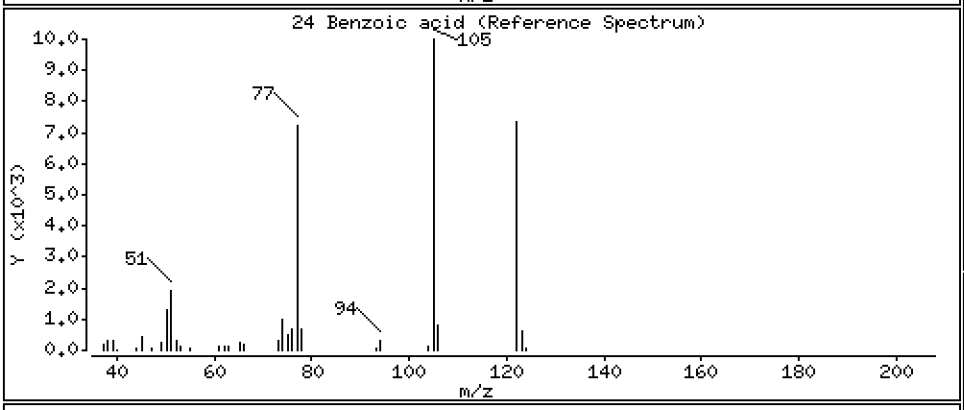
Column diameter: 0.25

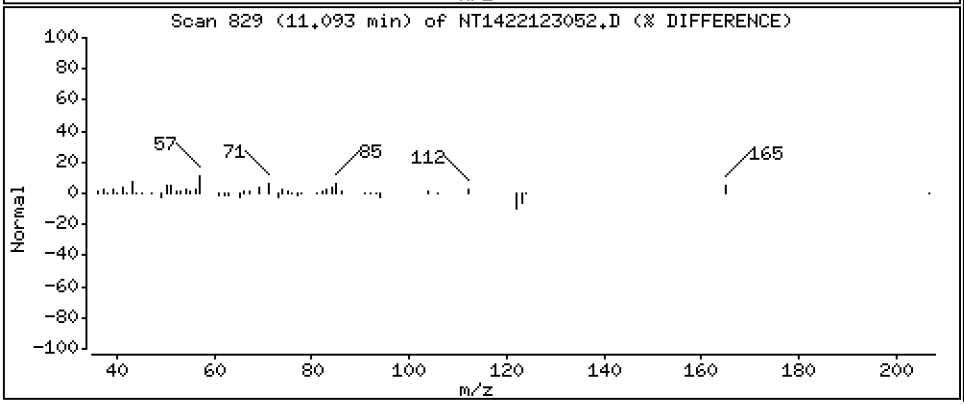
24 Benzoic acid

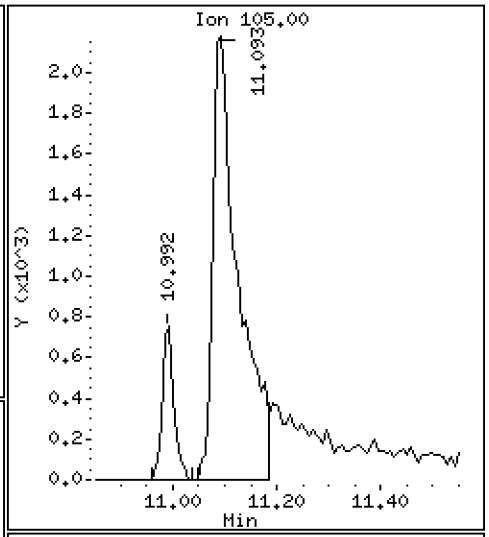
Concentration: 0.3306 ug/mL

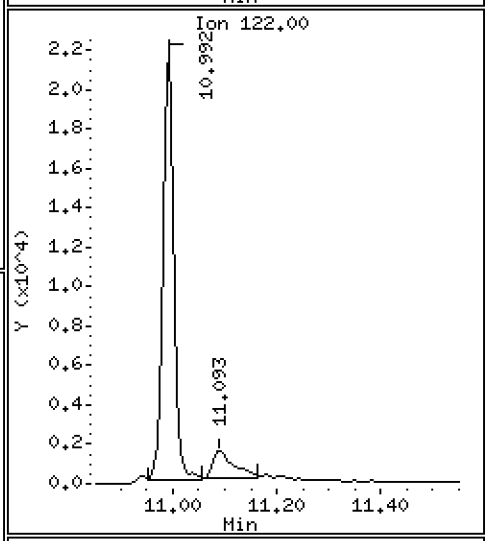


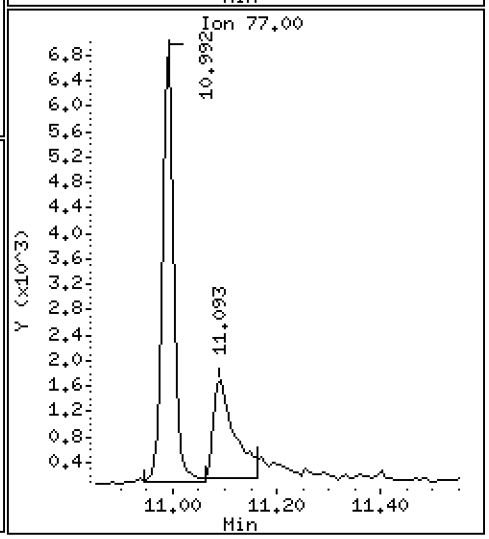












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

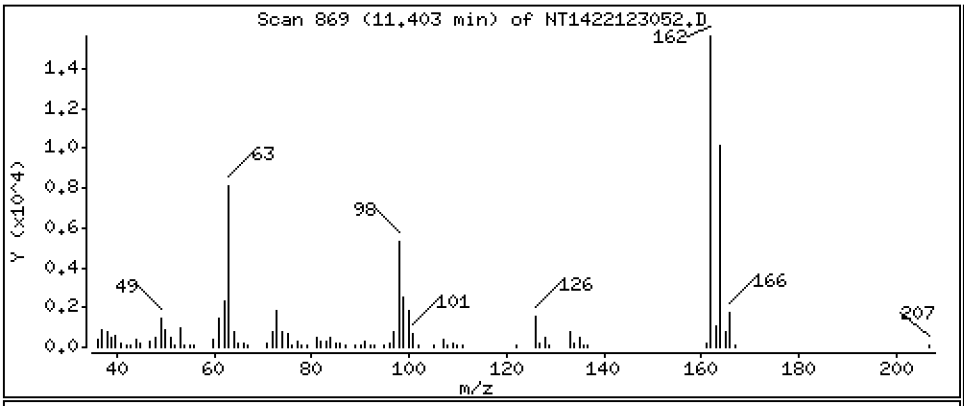
Operator: VTS

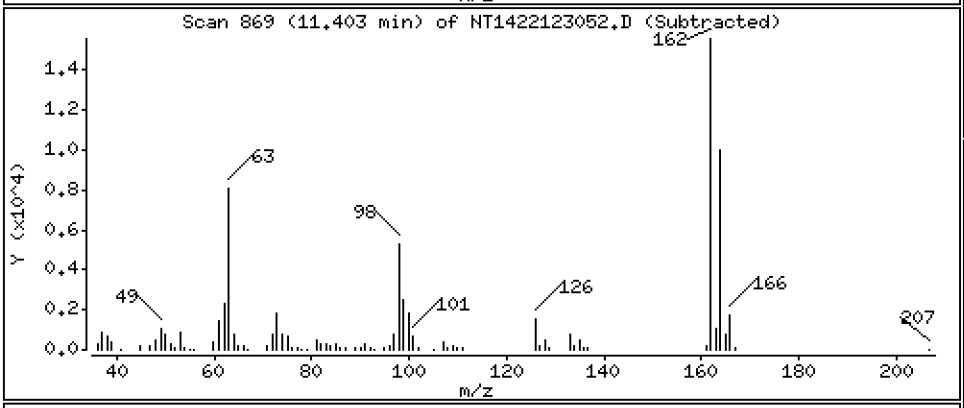
Column phase: ZB-5msi

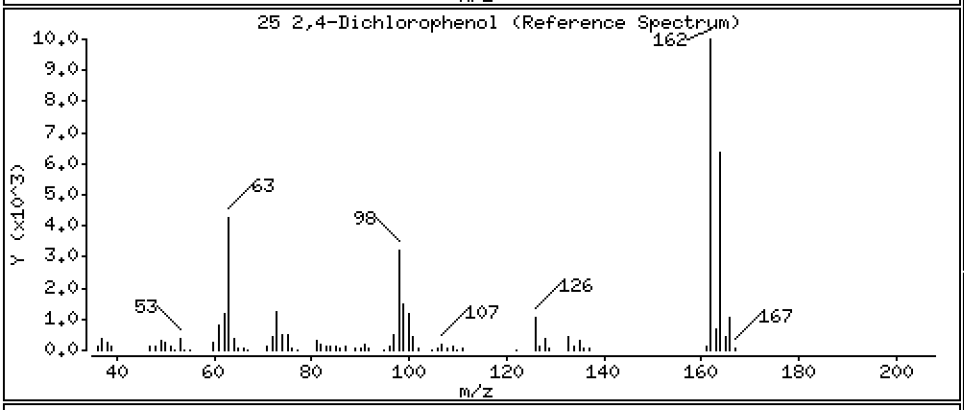
Column diameter: 0.25

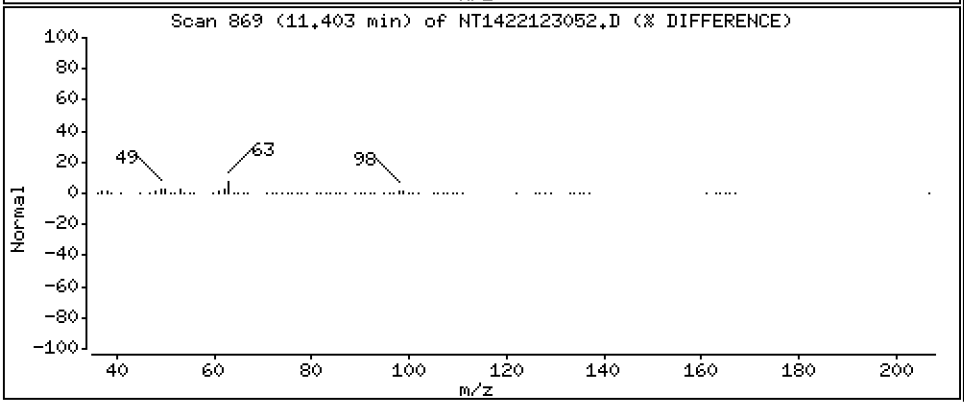
25 2,4-Dichlorophenol

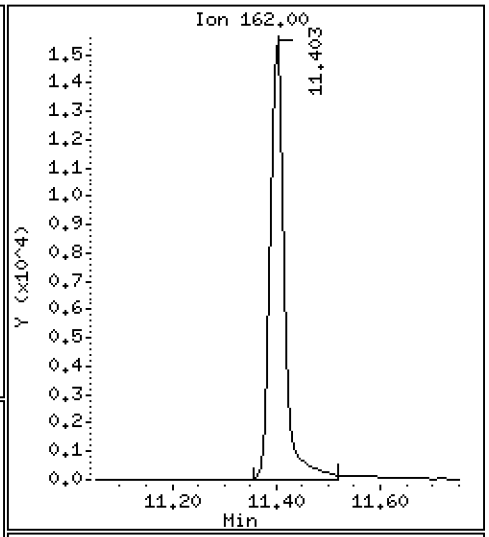
Concentration: 0.9922 ug/mL

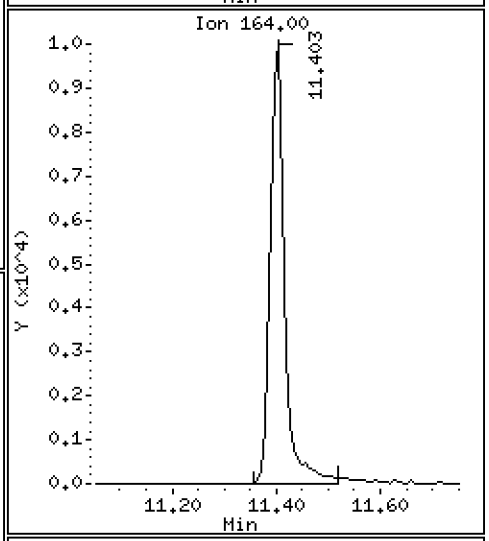


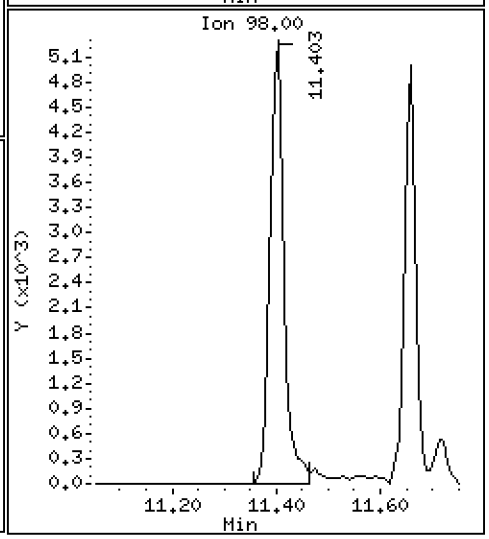












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

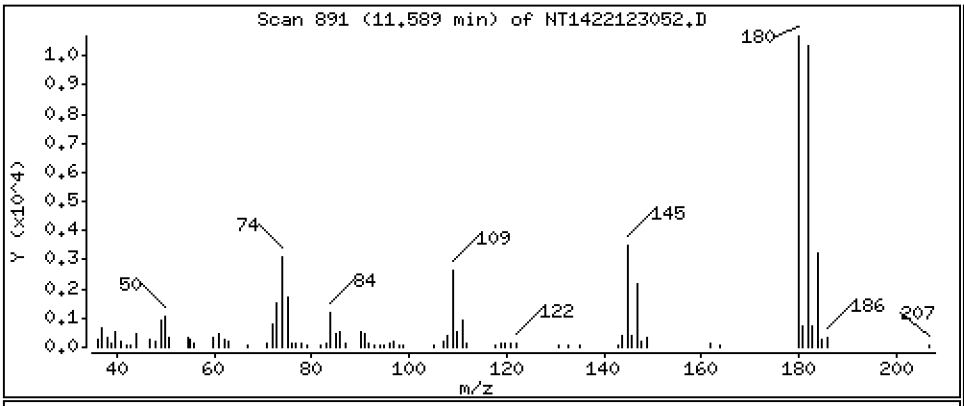
Operator: VTS

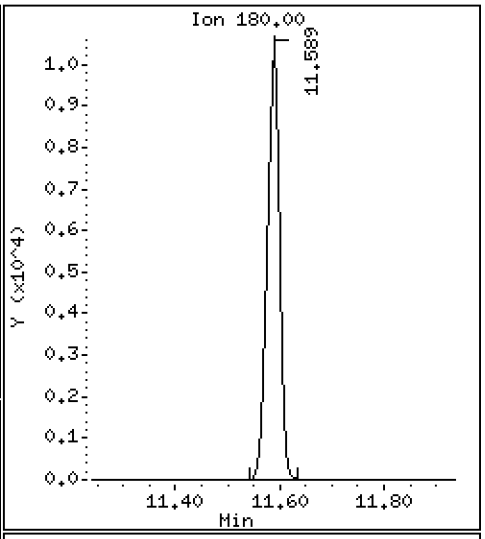
Column phase: ZB-5msi

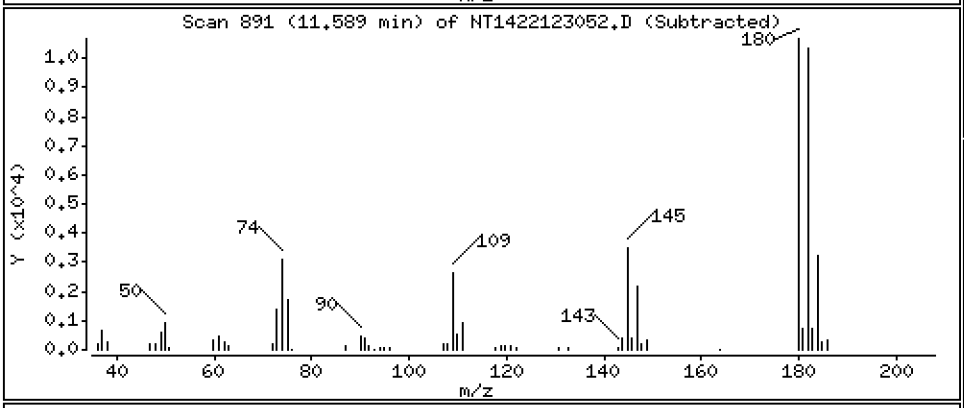
Column diameter: 0.25

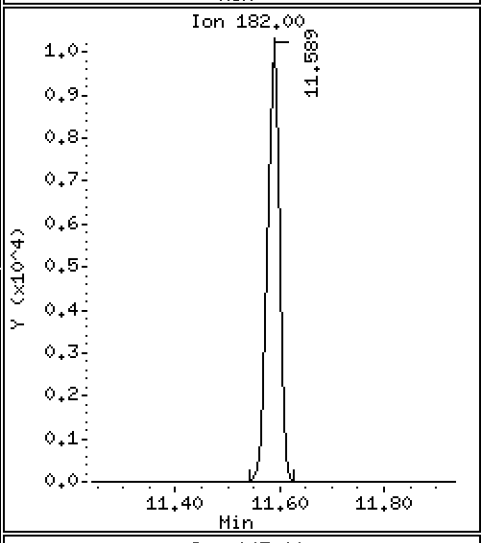
26 1,2,4-Trichlorobenzene

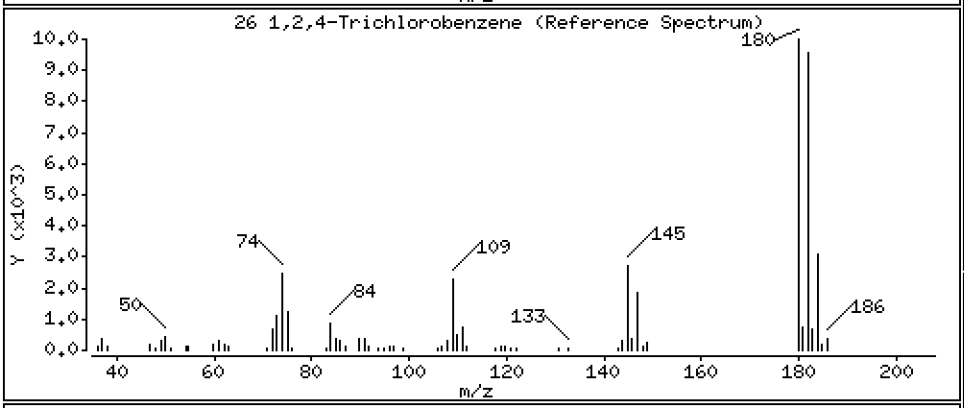
Concentration: 0.4816 ug/mL

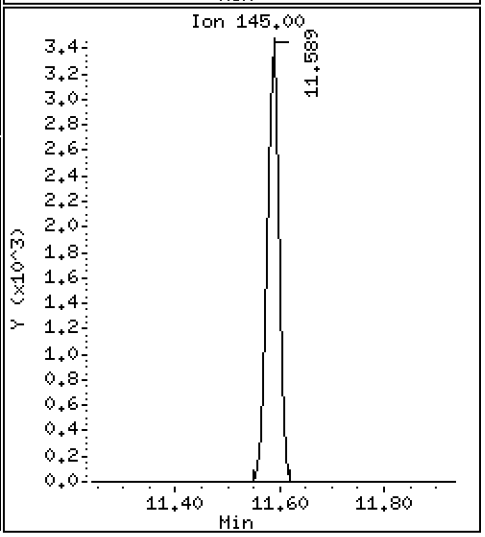


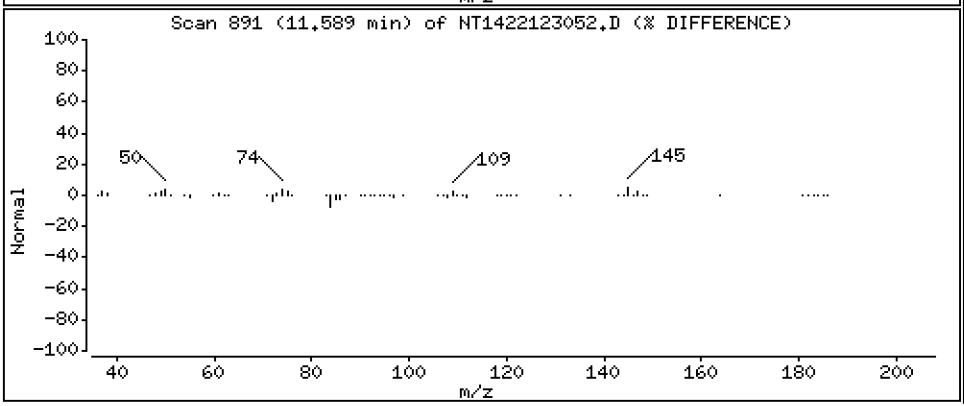












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

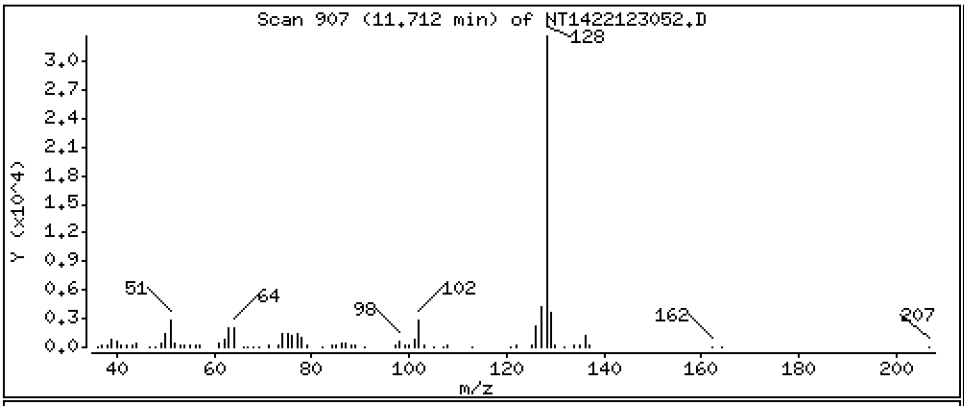
Operator: VTS

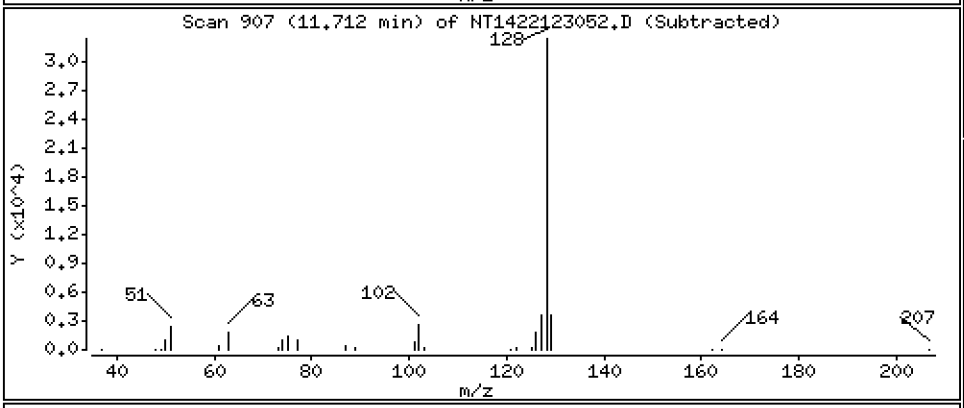
Column phase: ZB-5msi

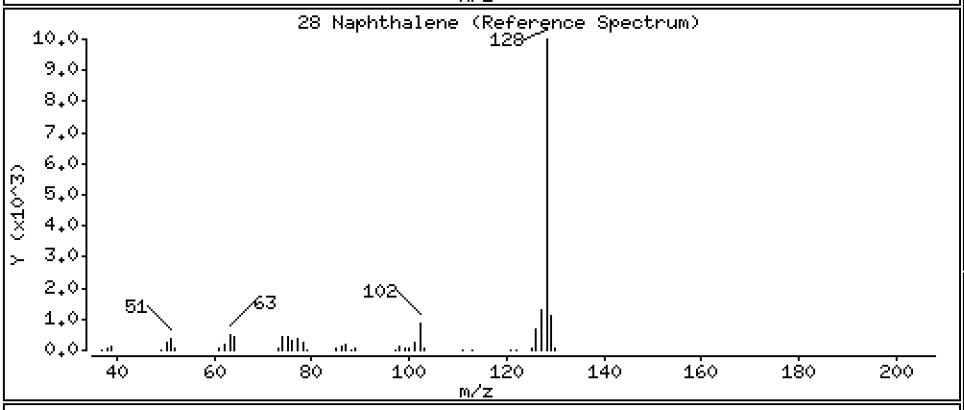
Column diameter: 0.25

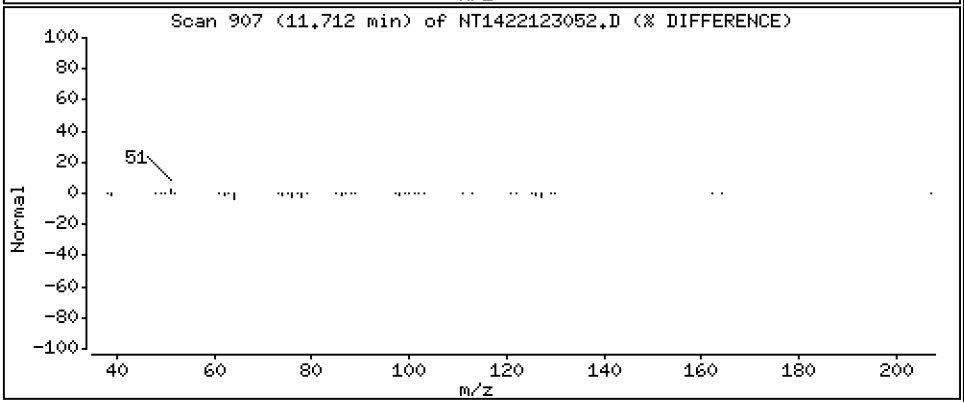
28 Naphthalene

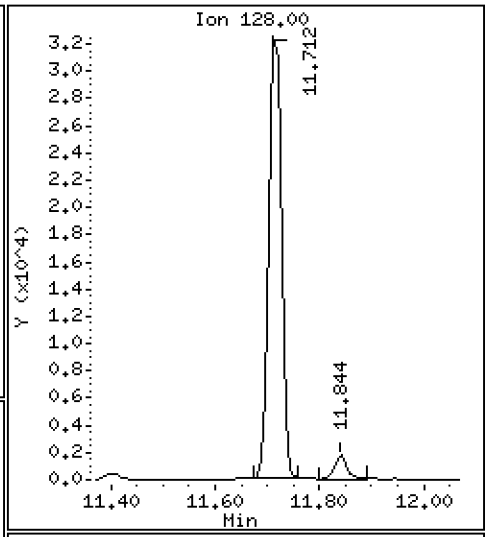
Concentration: 0.4844 ug/mL

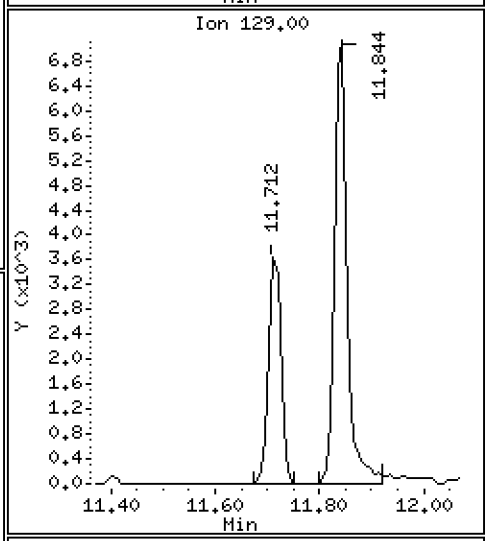


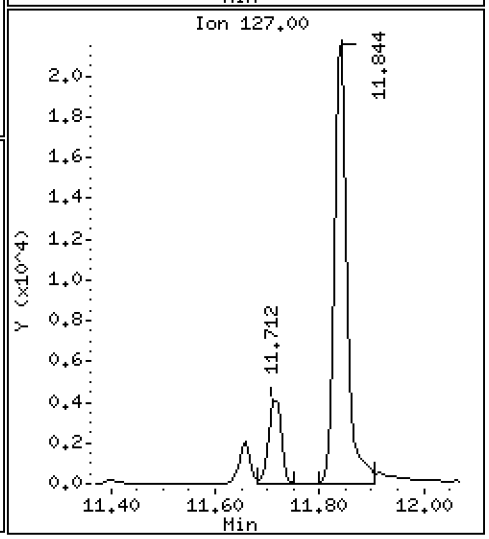












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

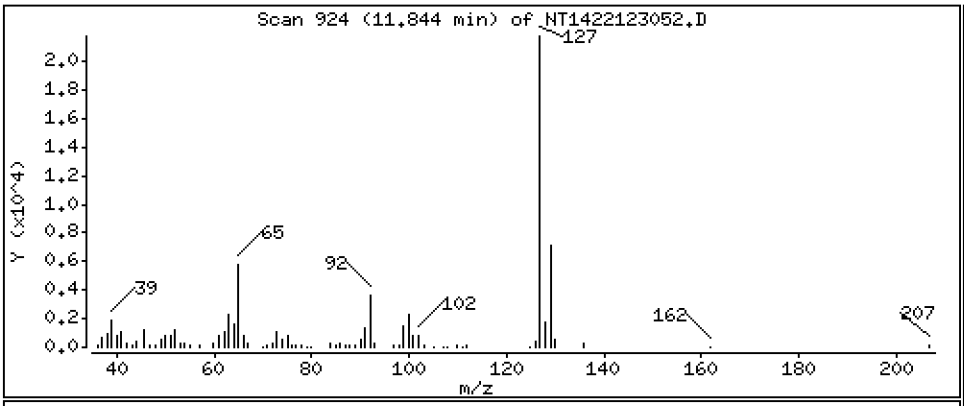
Operator: VTS

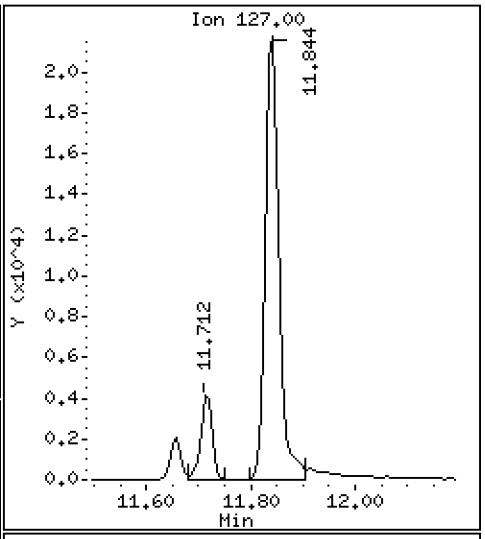
Column phase: ZB-5msi

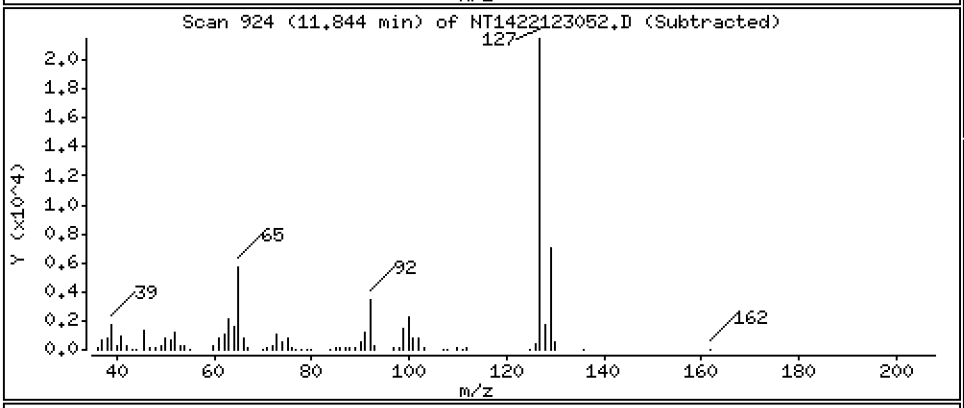
Column diameter: 0.25

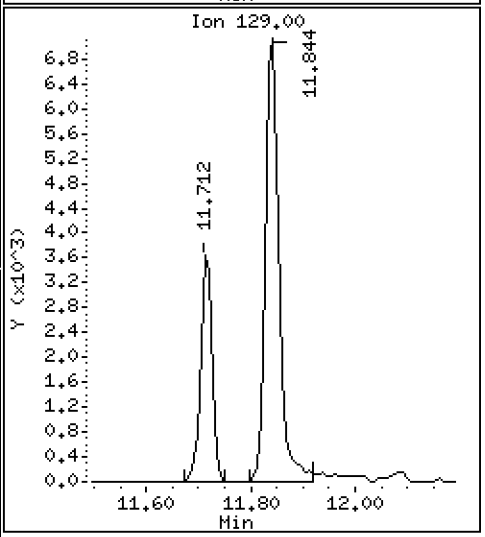
29 4-Chloroaniline

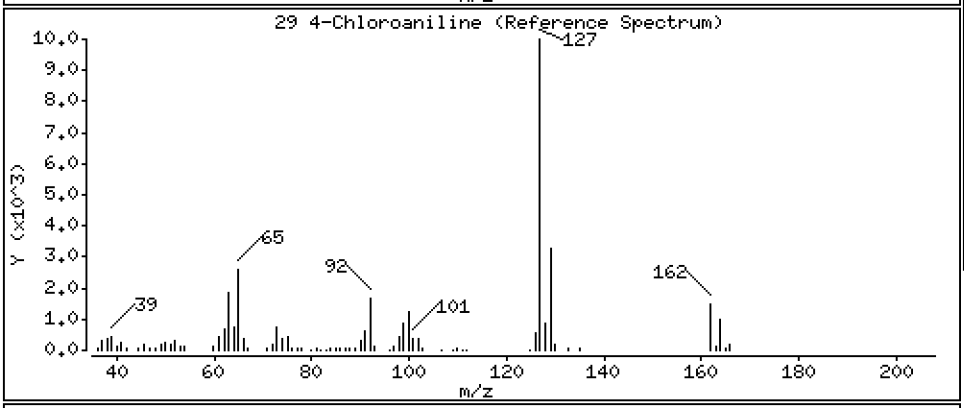
Concentration: 0.8698 ug/mL

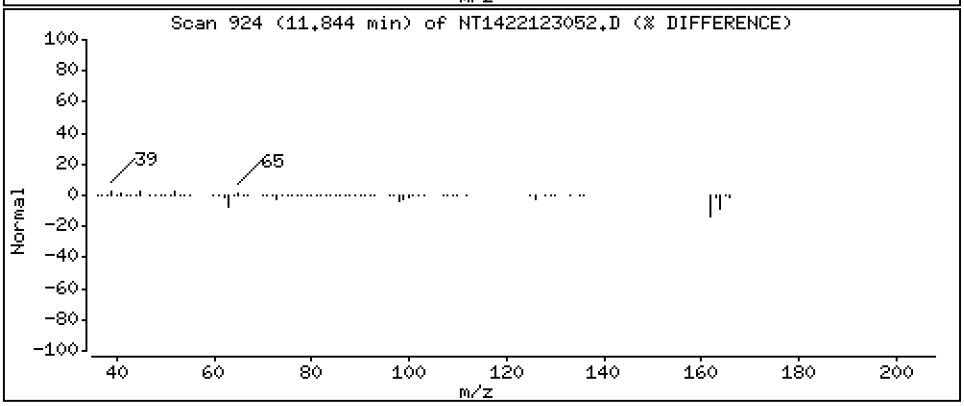












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

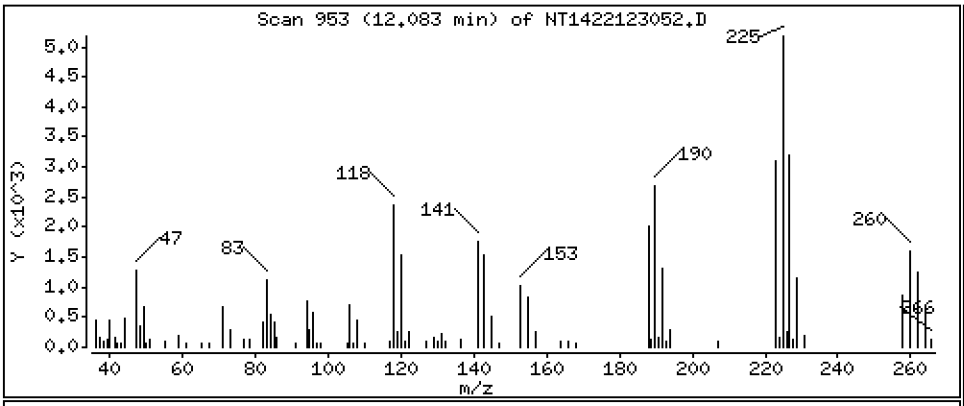
Operator: VTS

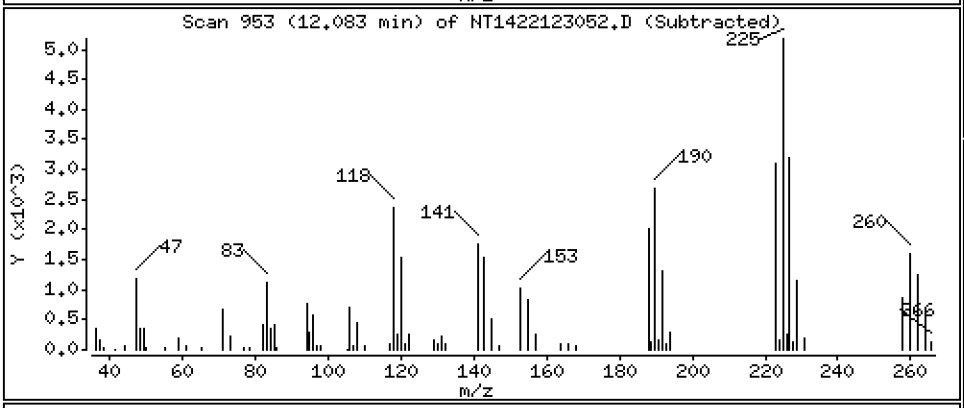
Column phase: ZB-5msi

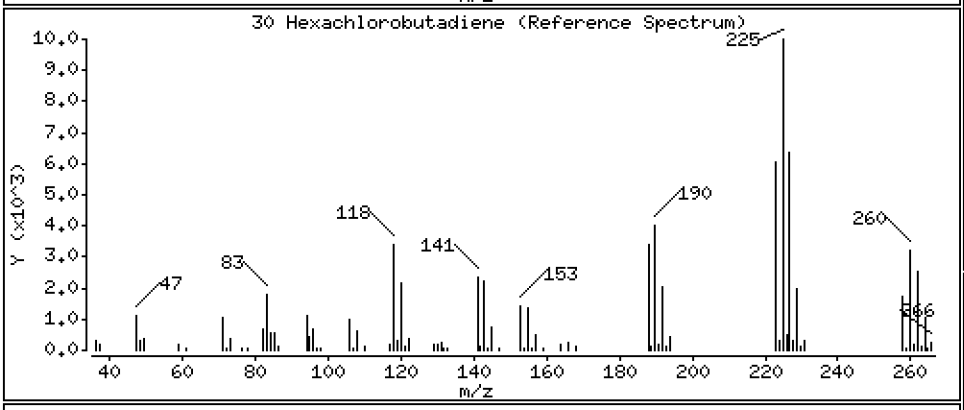
Column diameter: 0.25

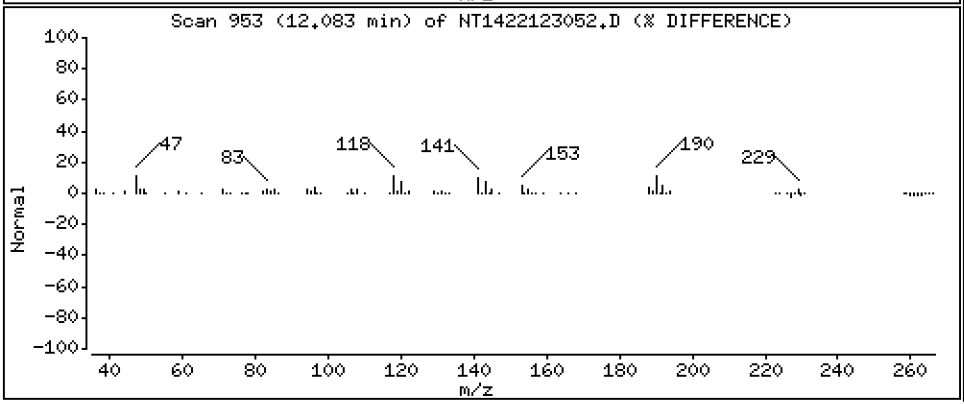
30 Hexachlorobutadiene

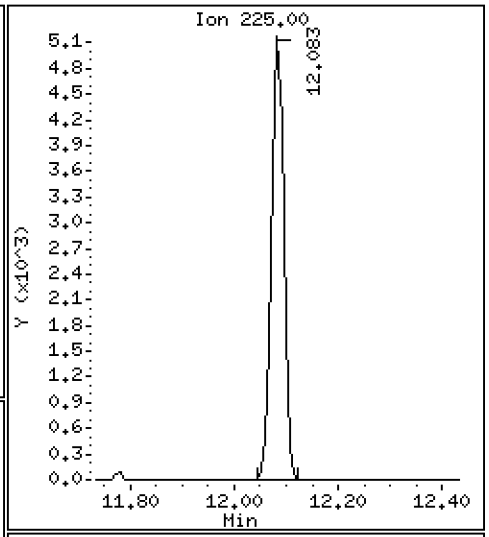
Concentration: 0.4710 ug/mL

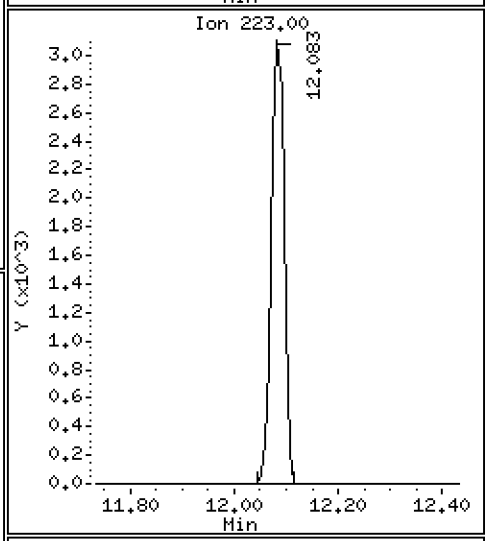


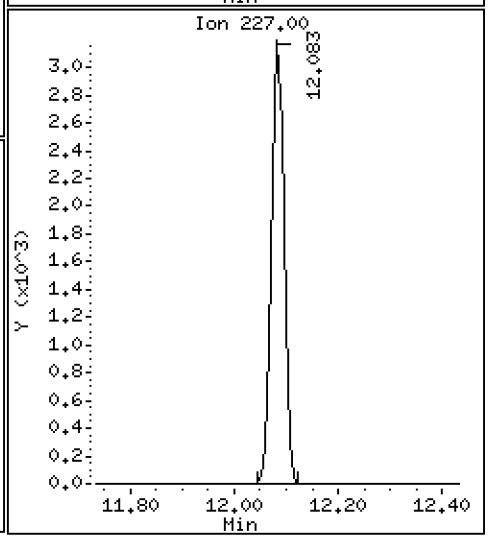












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

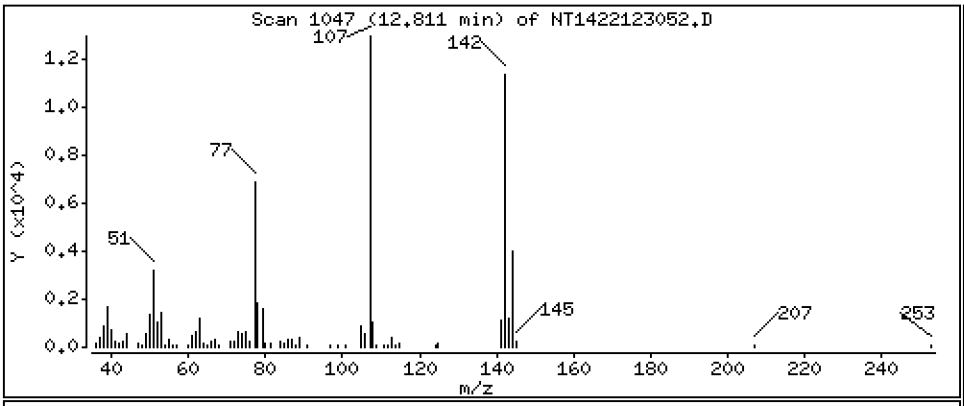
Operator: VTS

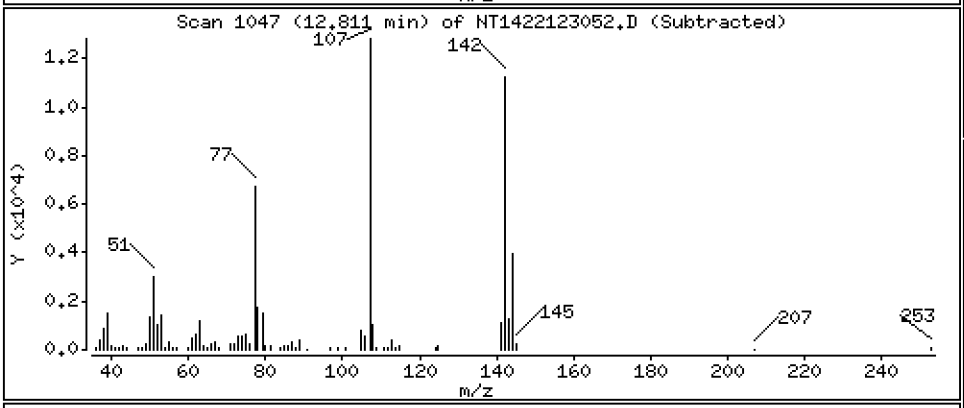
Column phase: ZB-5msi

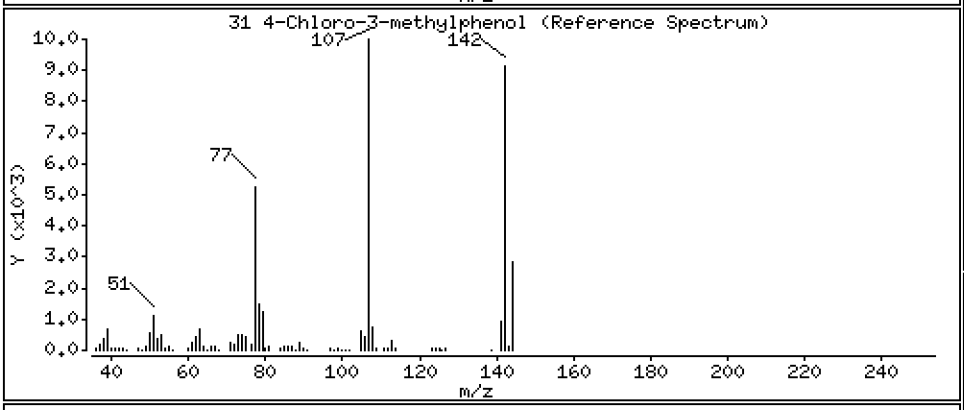
Column diameter: 0.25

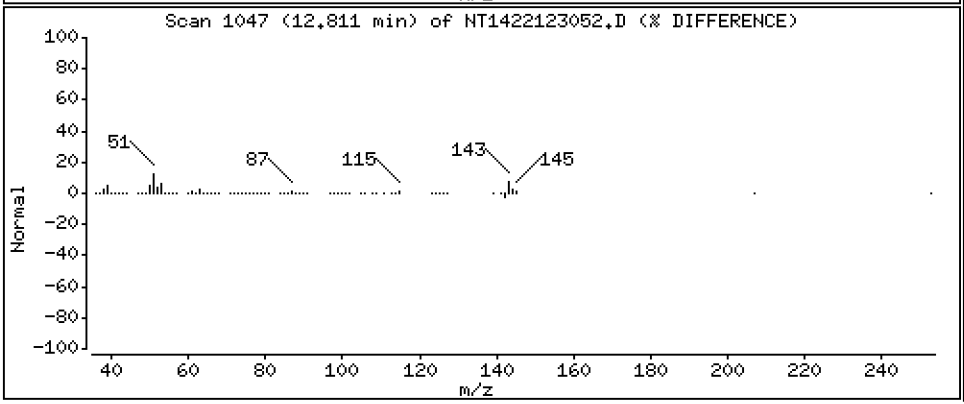
31 4-Chloro-3-methylphenol

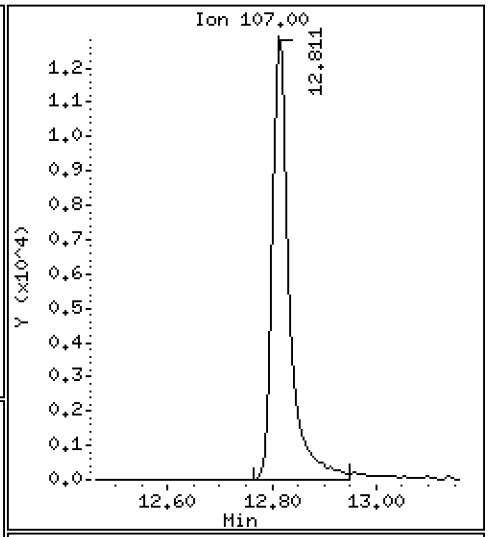
Concentration: 0.9524 ug/mL

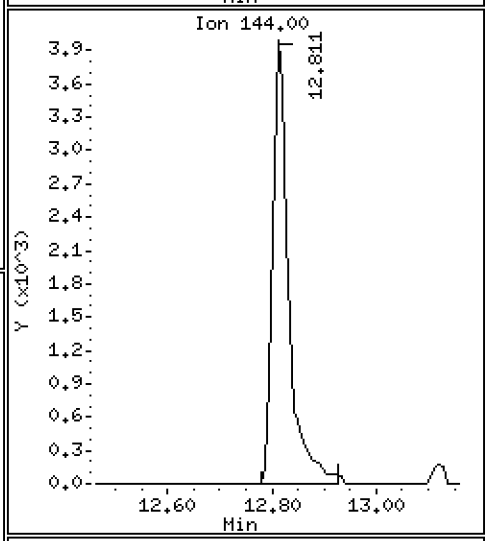


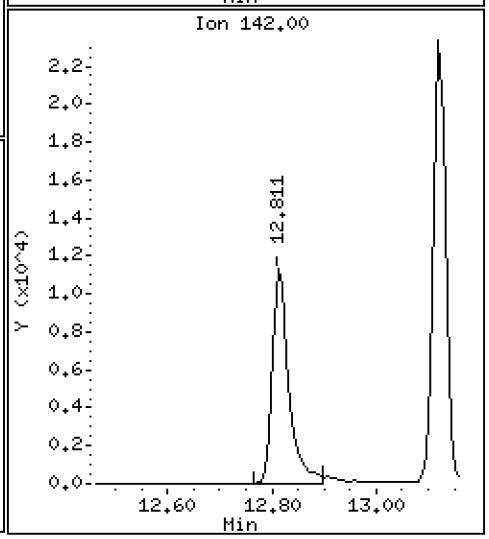












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

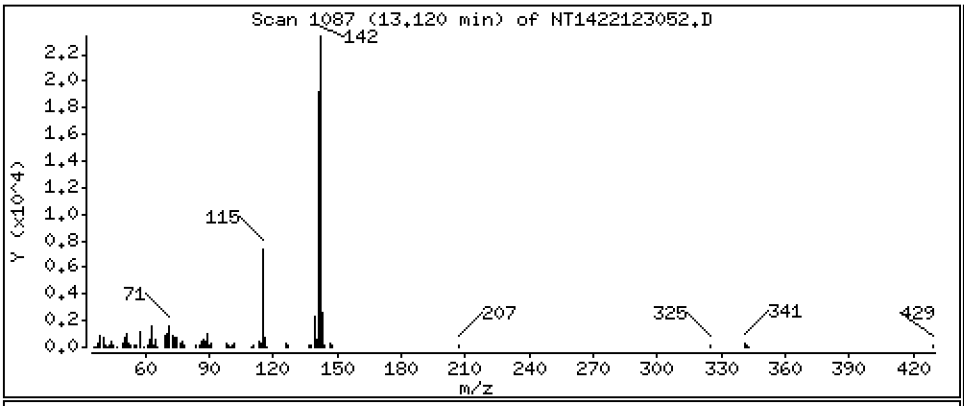
Operator: VTS

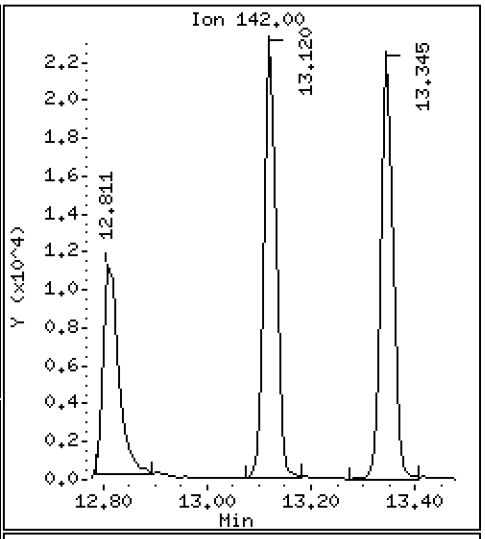
Column phase: ZB-5msi

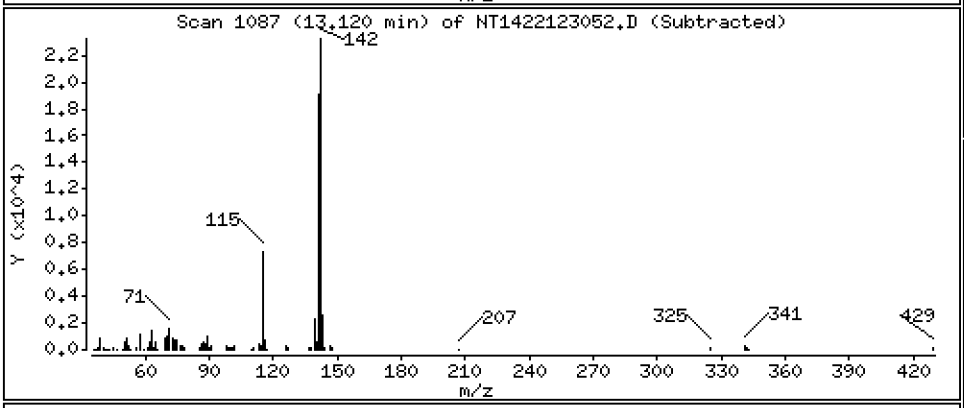
Column diameter: 0.25

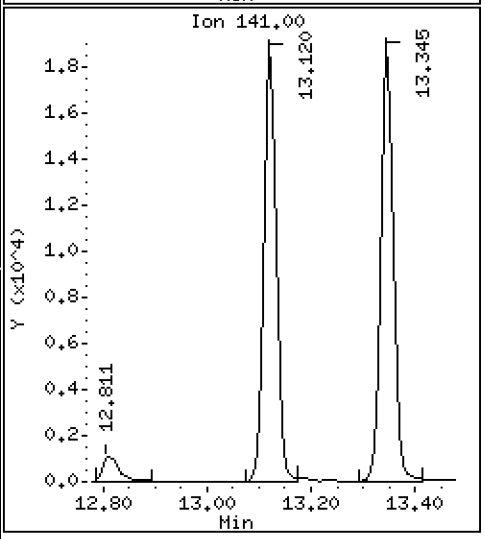
32 2-Methylnaphthalene

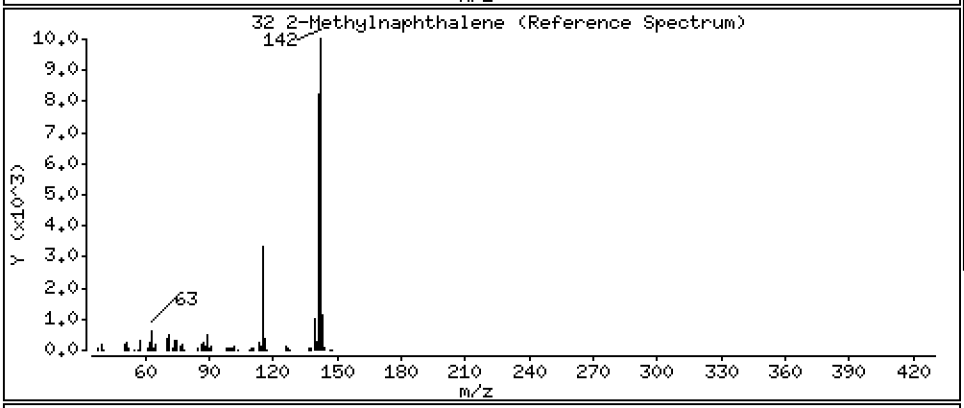
Concentration: 0.4676 ug/mL

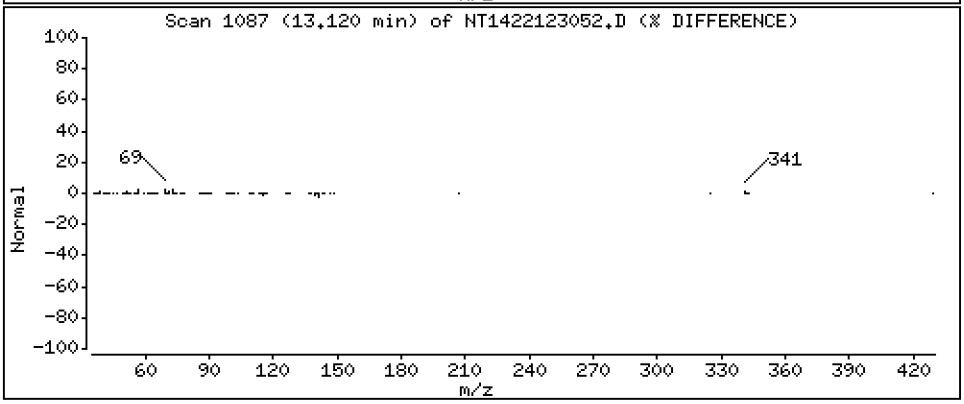












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

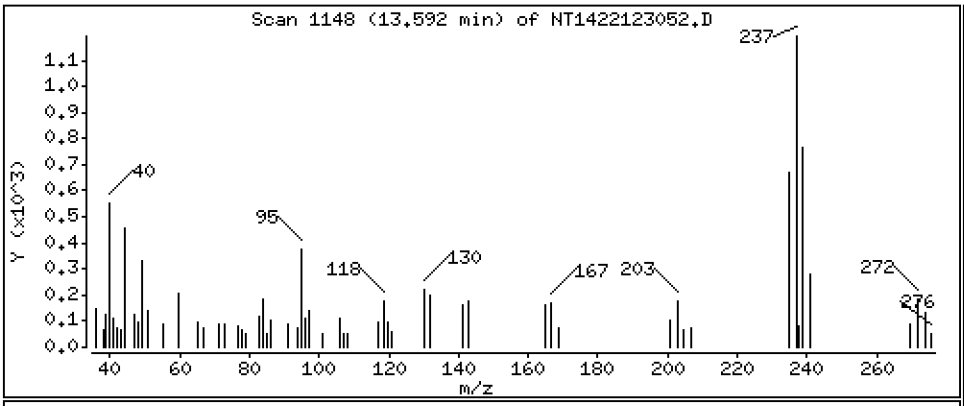
Operator: VTS

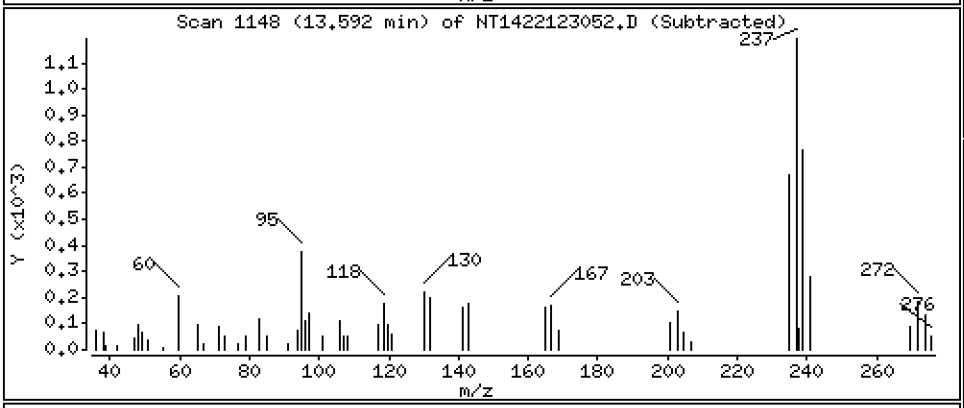
Column phase: ZB-5msi

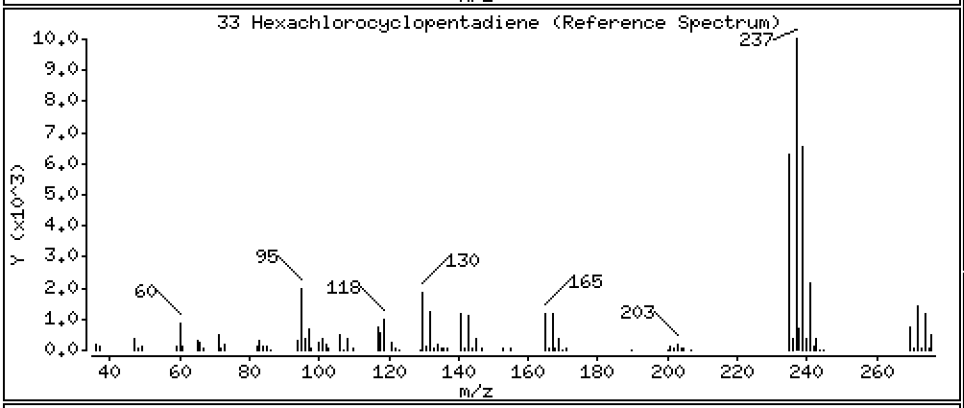
Column diameter: 0.25

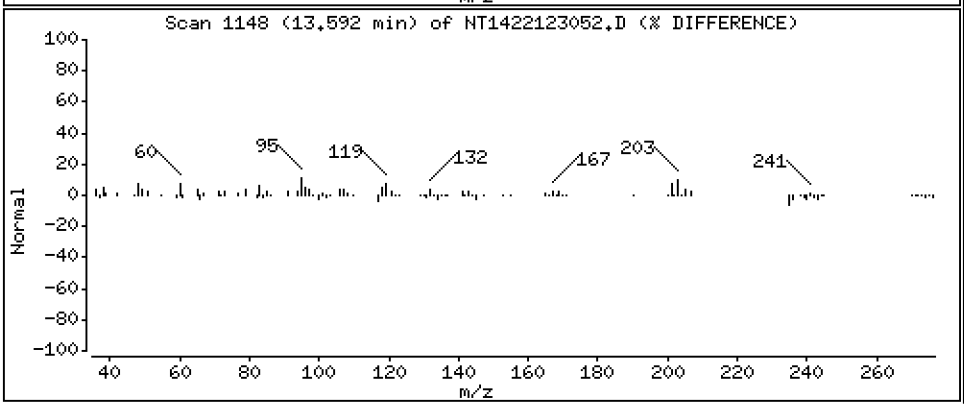
33 Hexachlorocyclopentadiene

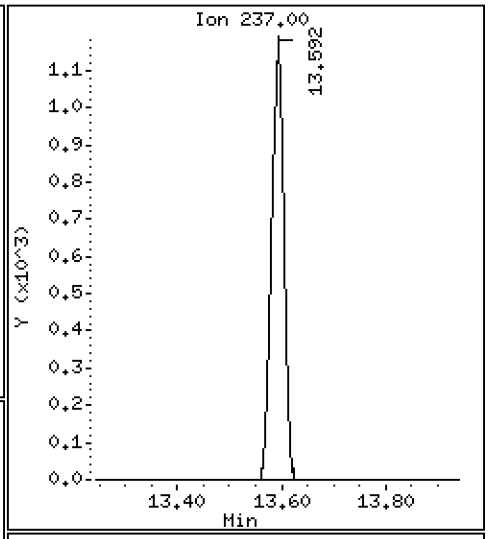
Concentration: 0.1074 ug/mL

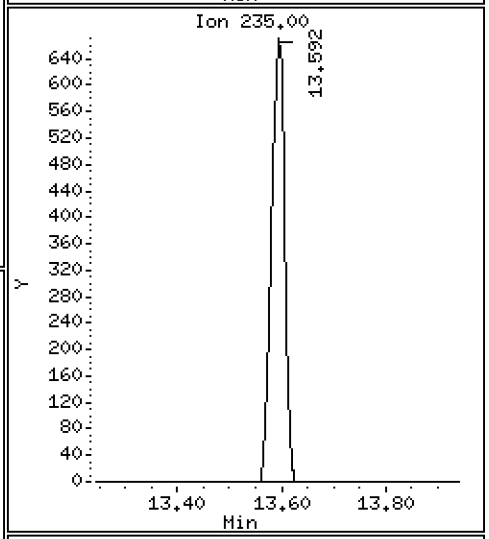


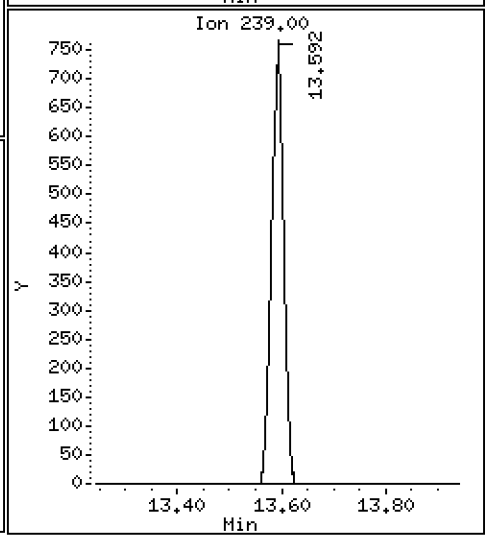












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

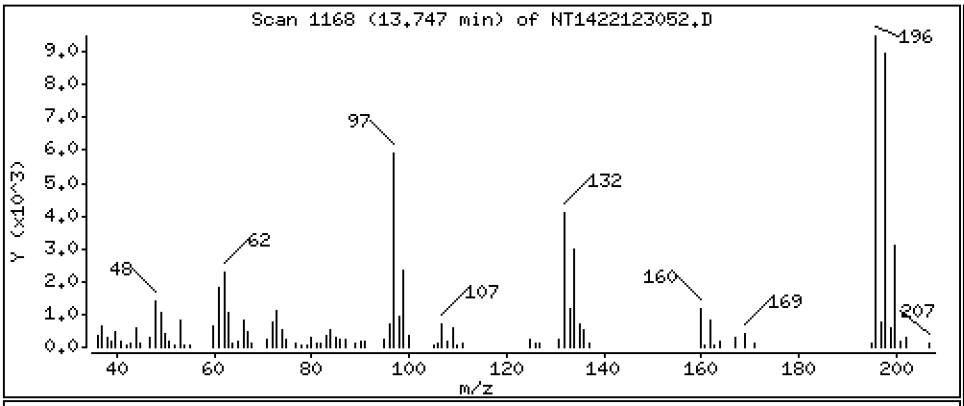
Operator: VTS

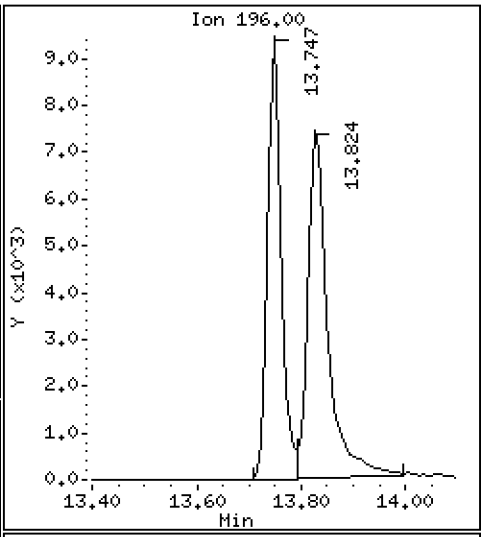
Column phase: ZB-5msi

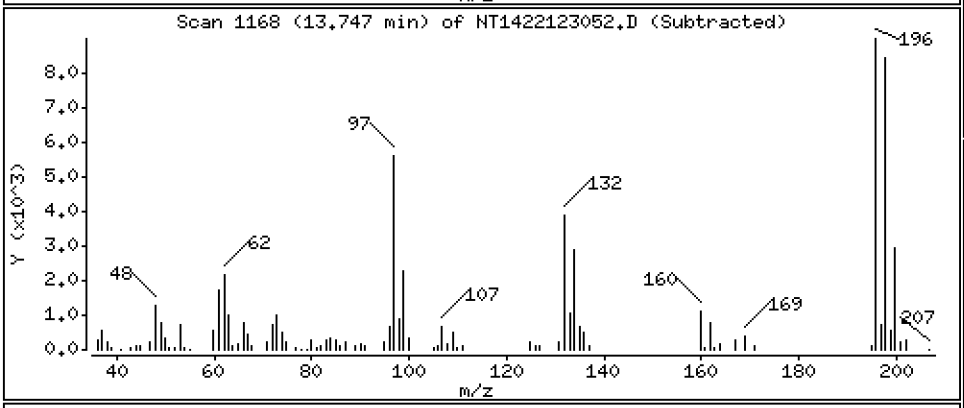
Column diameter: 0.25

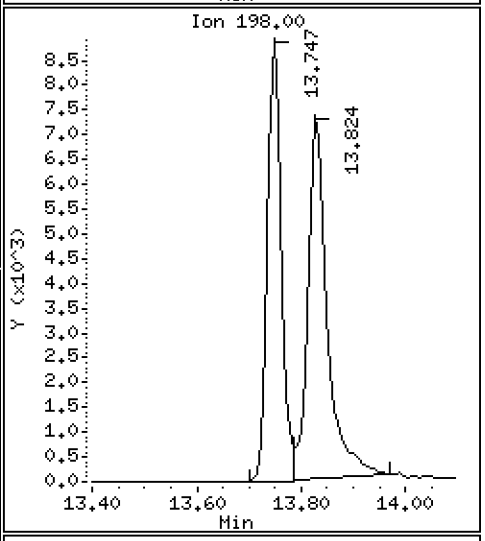
34 2,4,6-Trichlorophenol

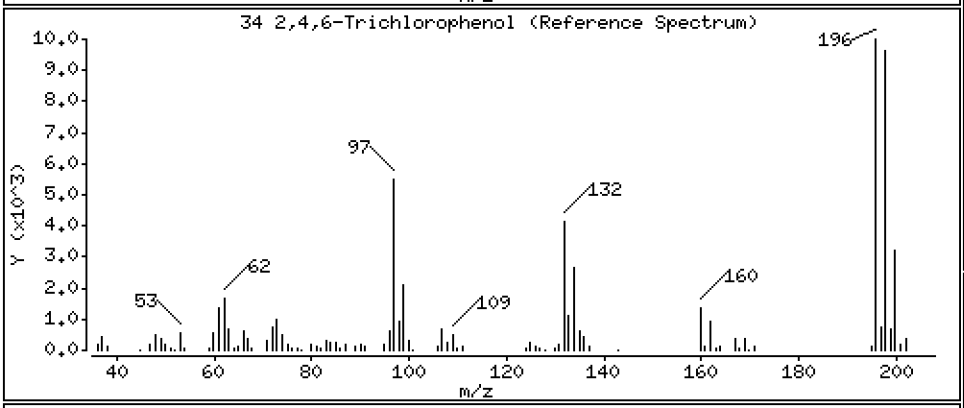
Concentration: 0.8903 ug/mL

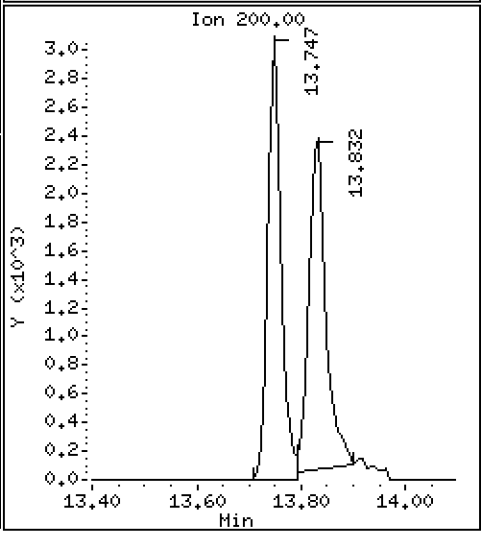


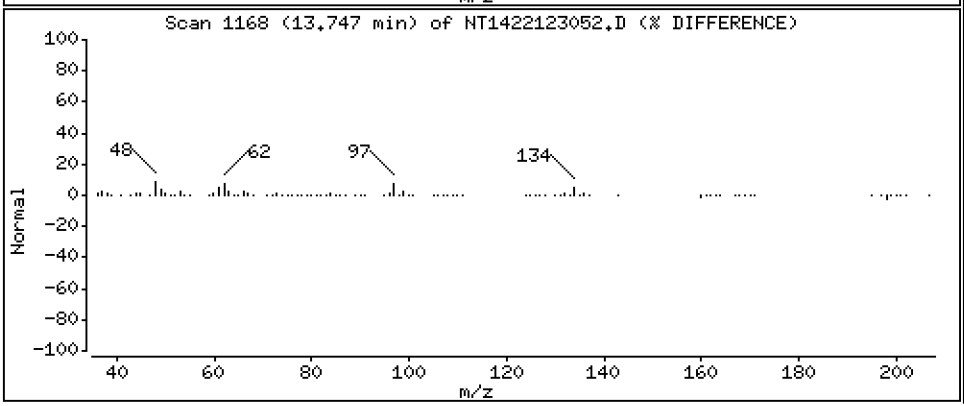












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

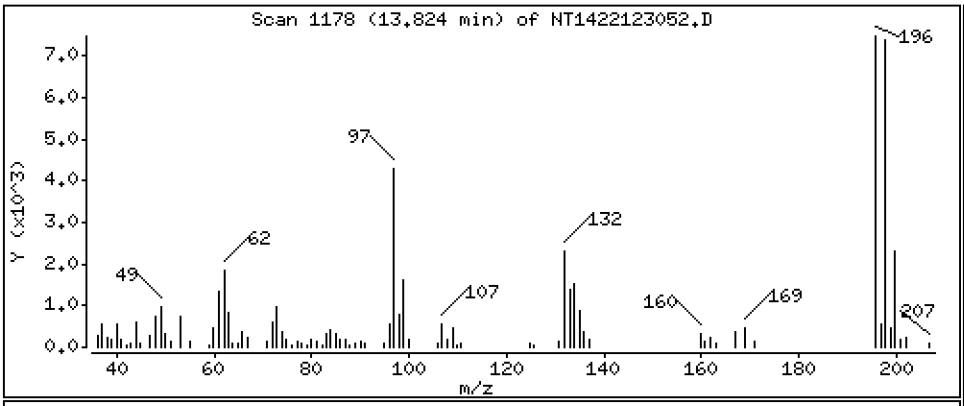
Operator: VTS

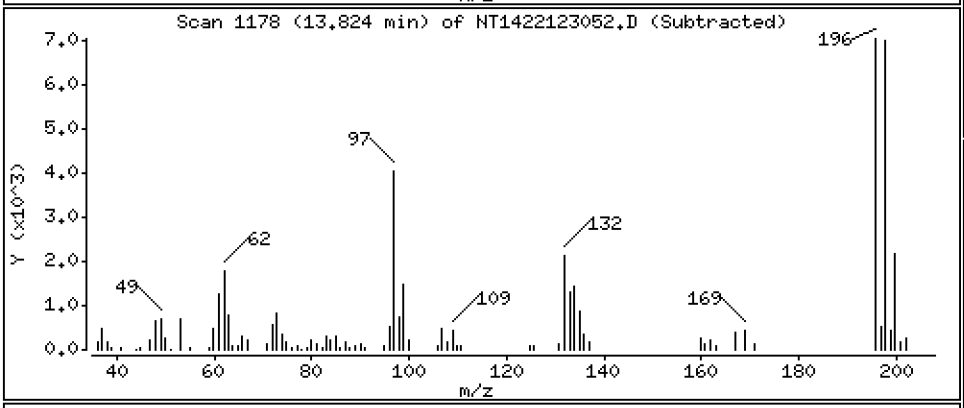
Column phase: ZB-5msi

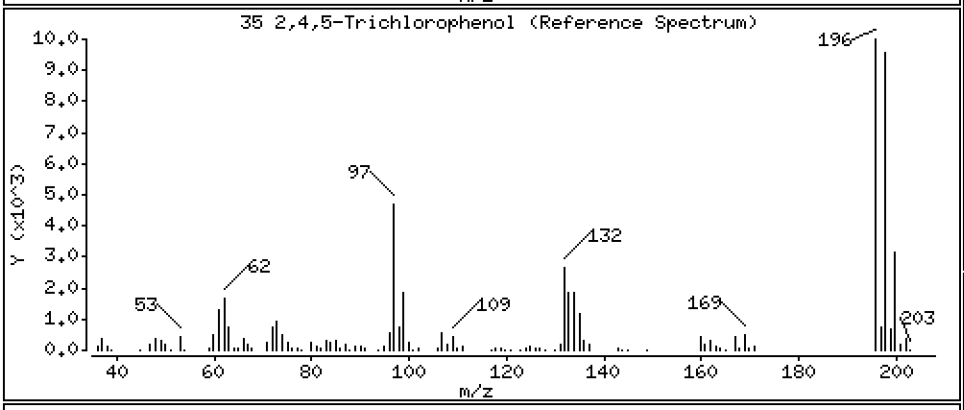
Column diameter: 0.25

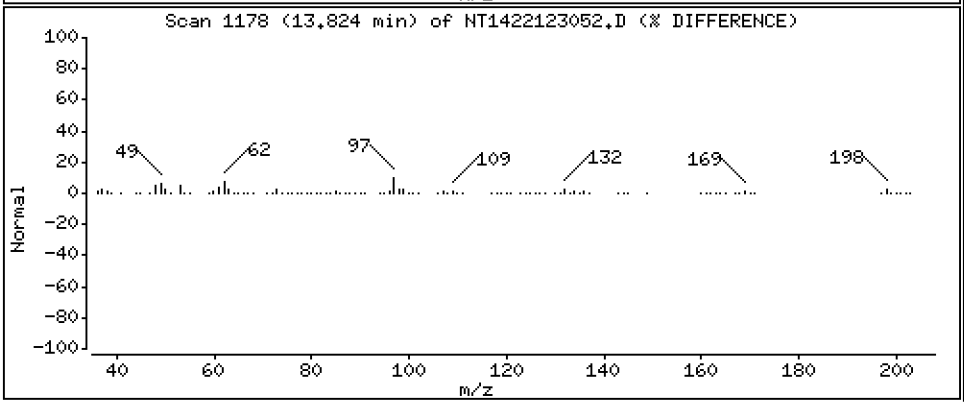
35 2,4,5-Trichlorophenol

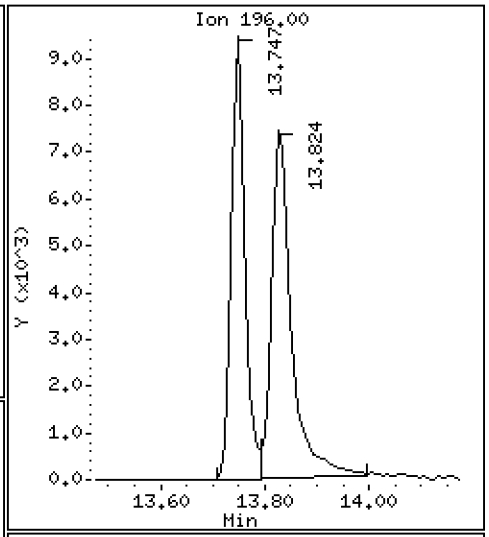
Concentration: 0.8994 ug/mL

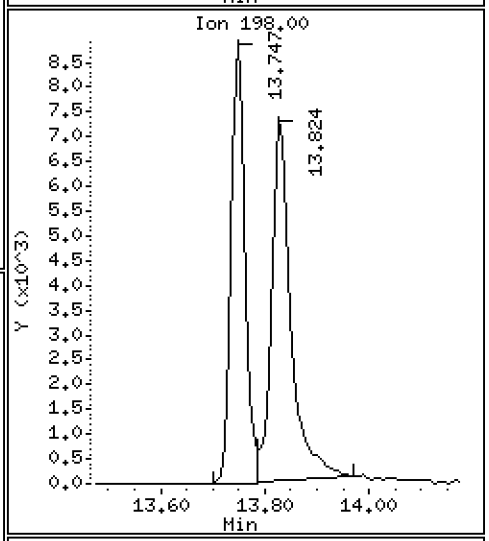


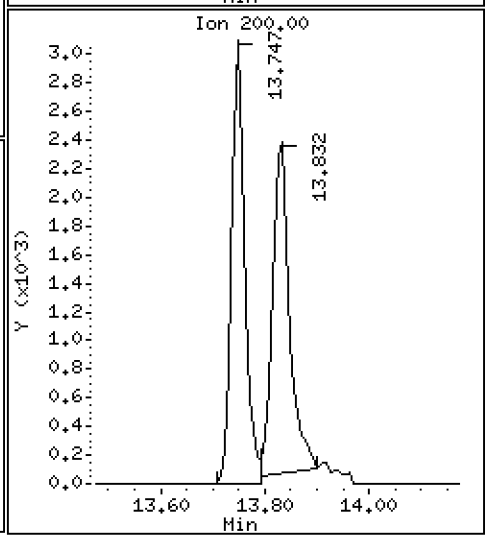












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

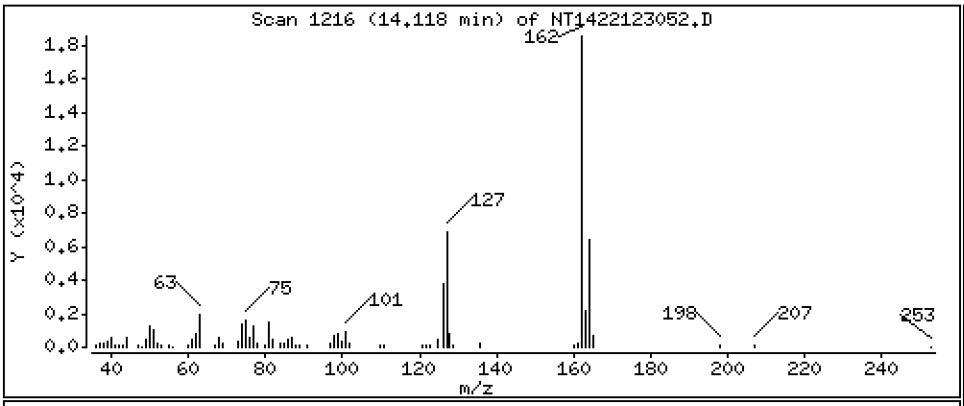
Operator: VTS

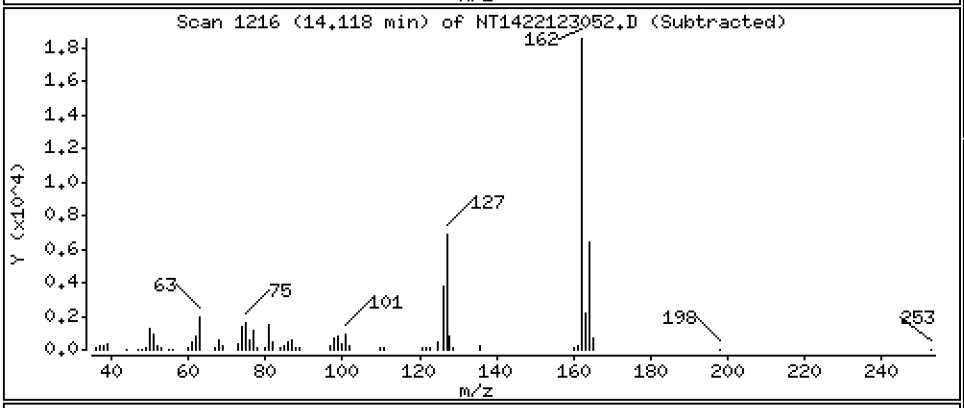
Column phase: ZB-5msi

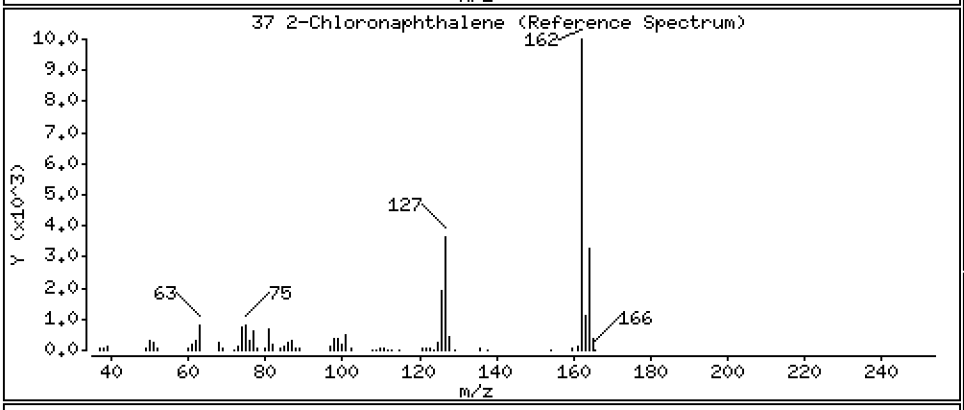
Column diameter: 0.25

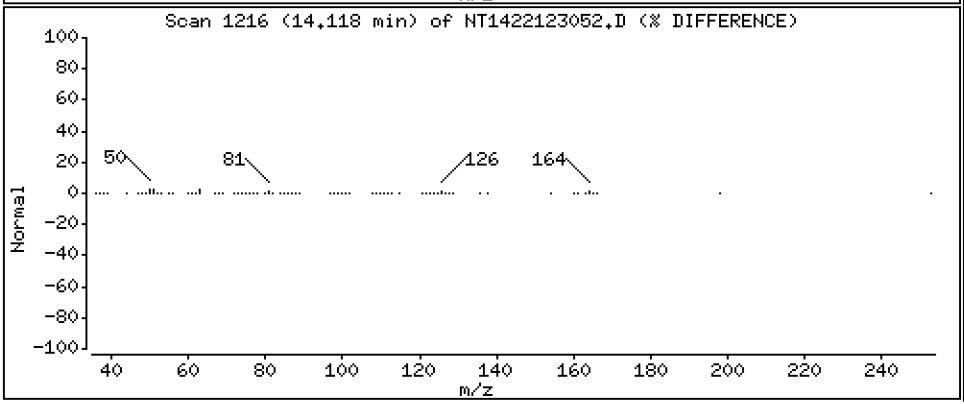
37 2-Chloronaphthalene

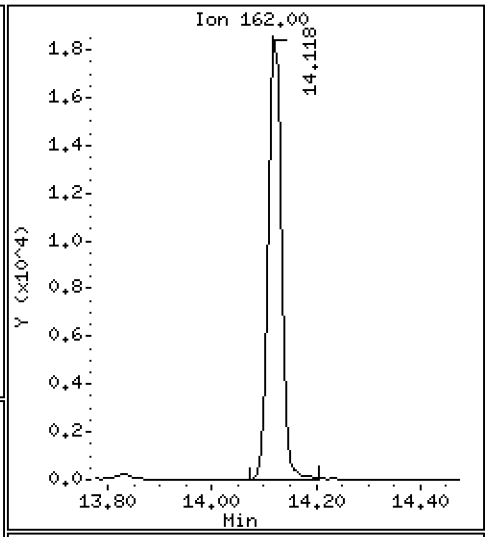
Concentration: 0.4882 ug/mL

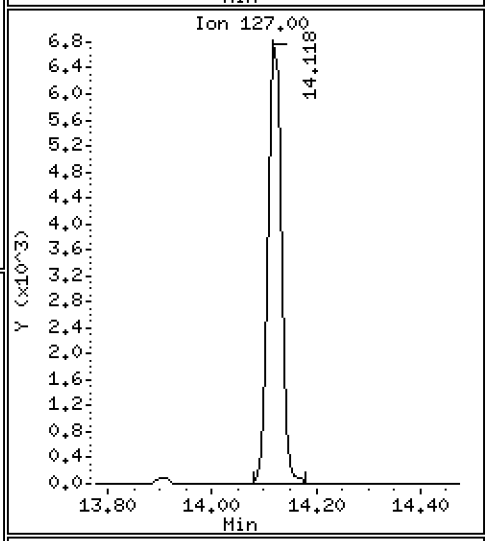


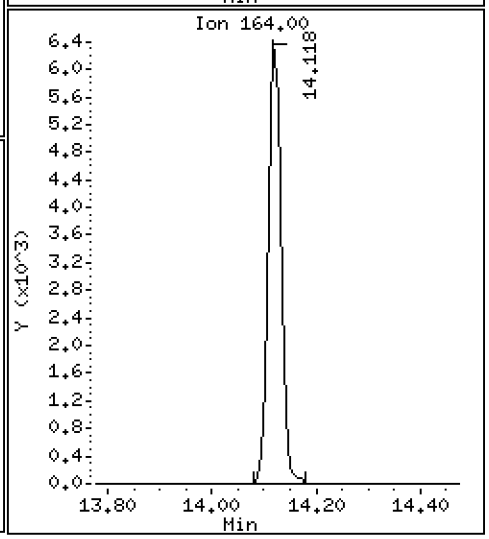












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

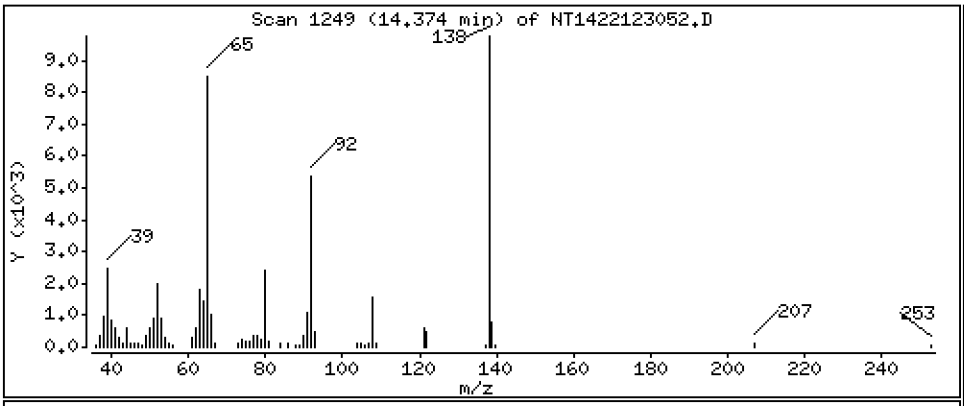
Operator: VTS

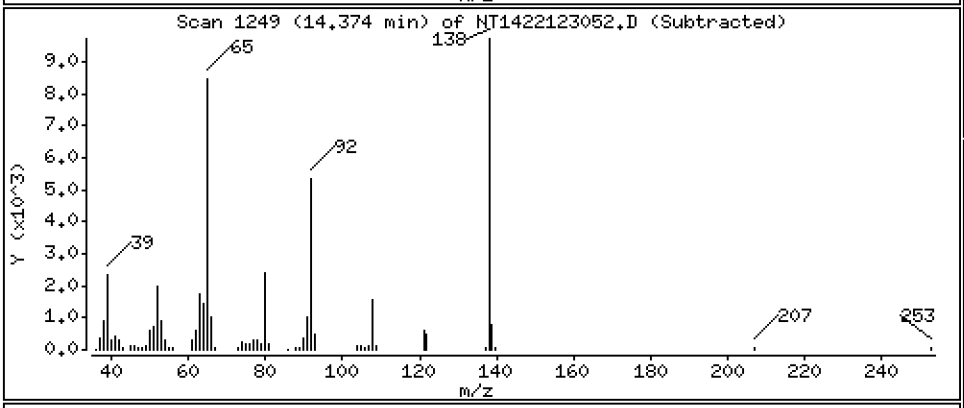
Column phase: ZB-5msi

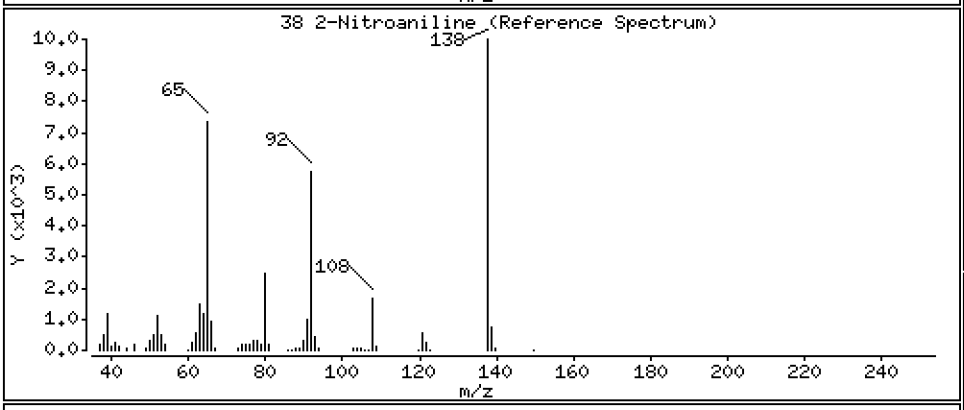
Column diameter: 0.25

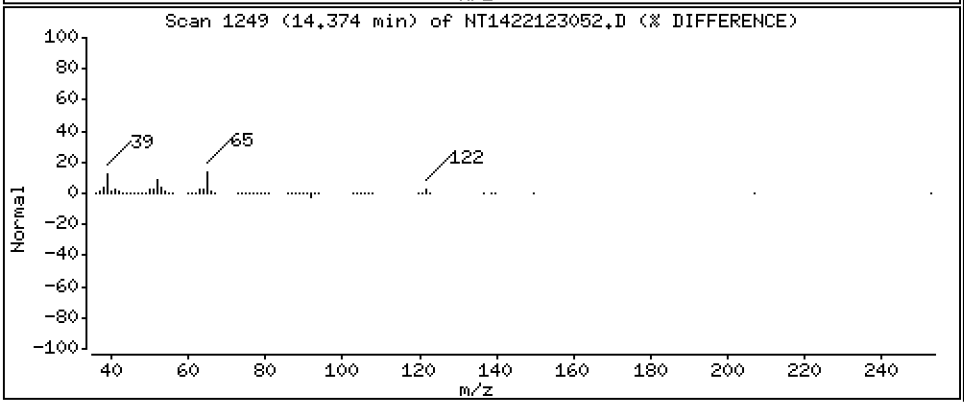
38 2-Nitroaniline

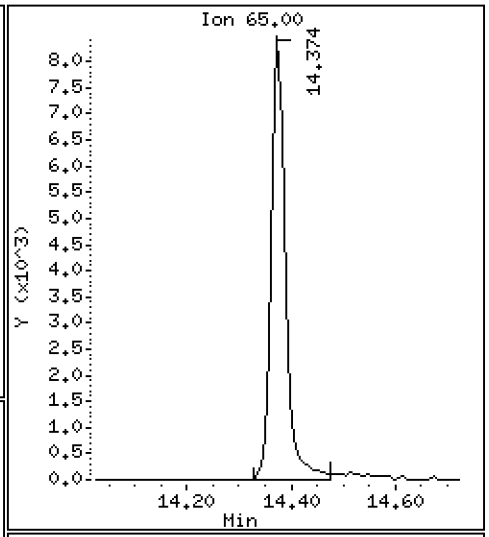
Concentration: 0.9202 ug/mL

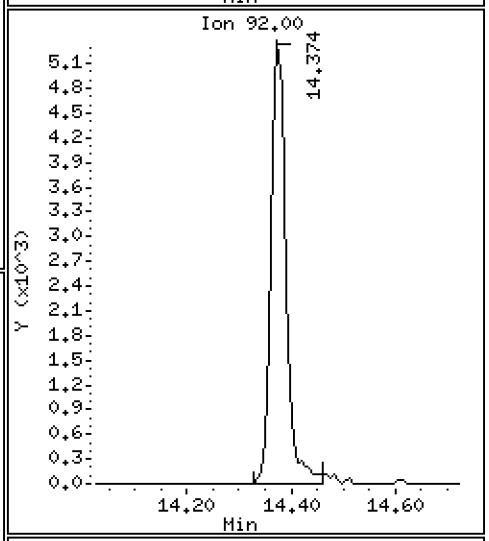


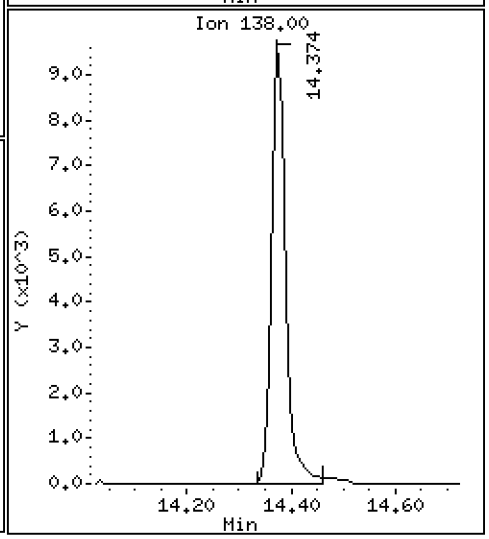












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

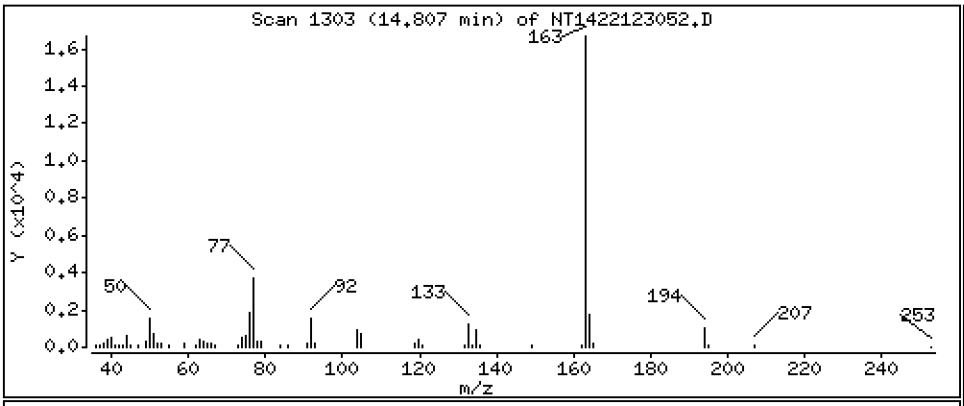
Operator: VTS

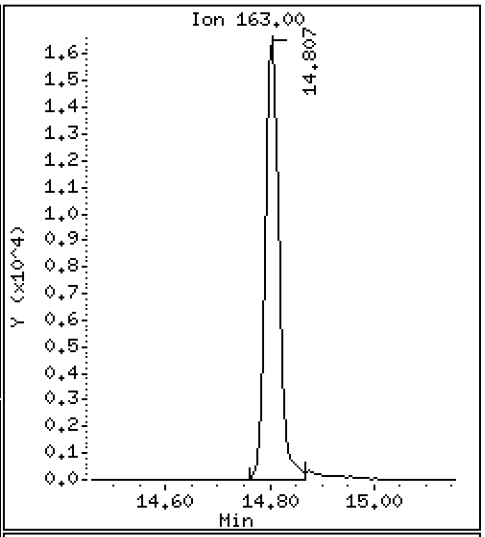
Column phase: ZB-5msi

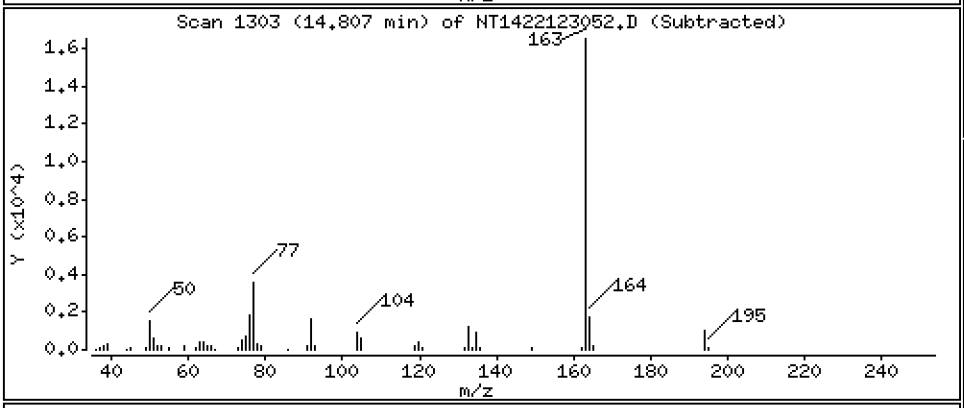
Column diameter: 0.25

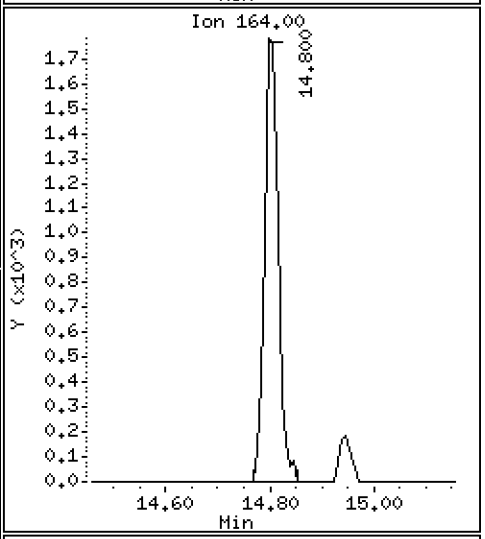
39 Dimethylphthalate

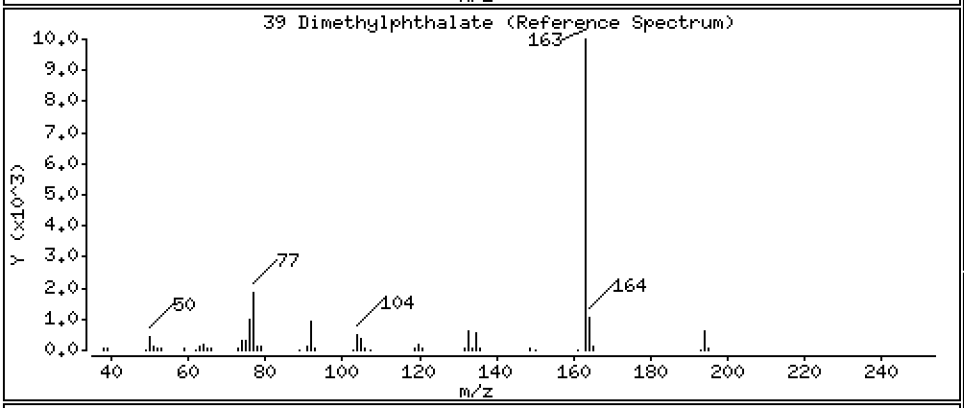
Concentration: 0.4656 ug/mL

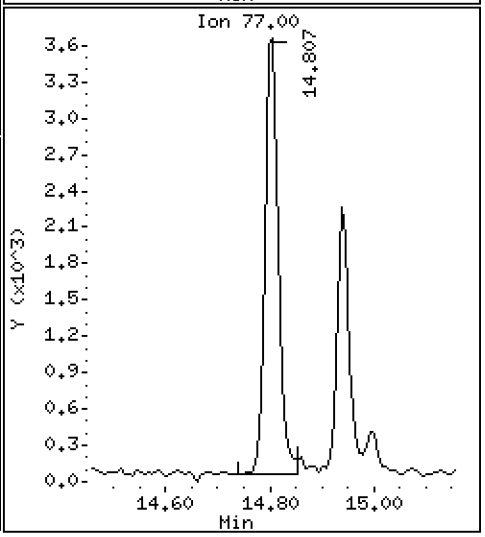


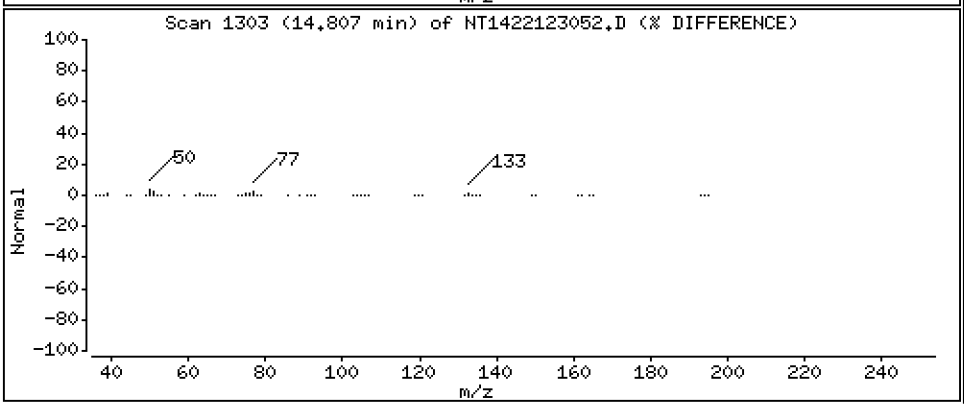












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

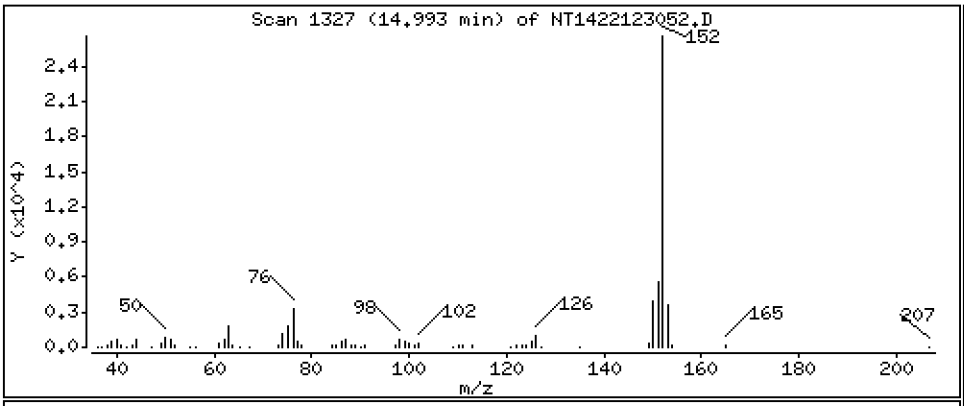
Operator: VTS

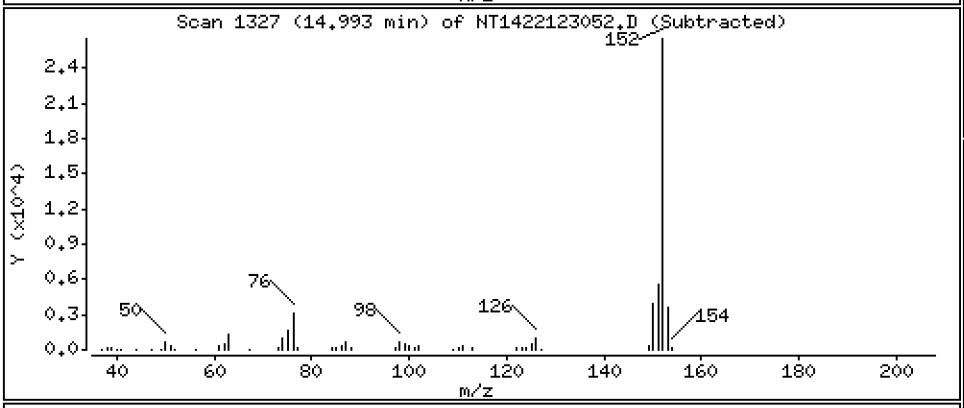
Column phase: ZB-5msi

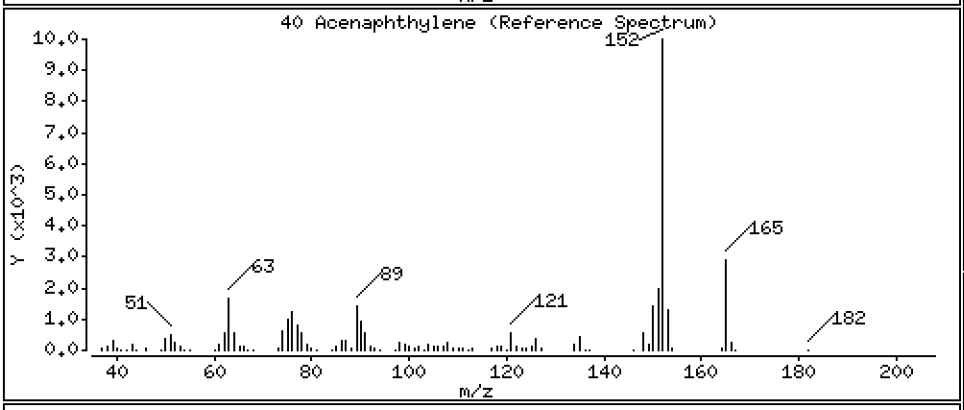
Column diameter: 0.25

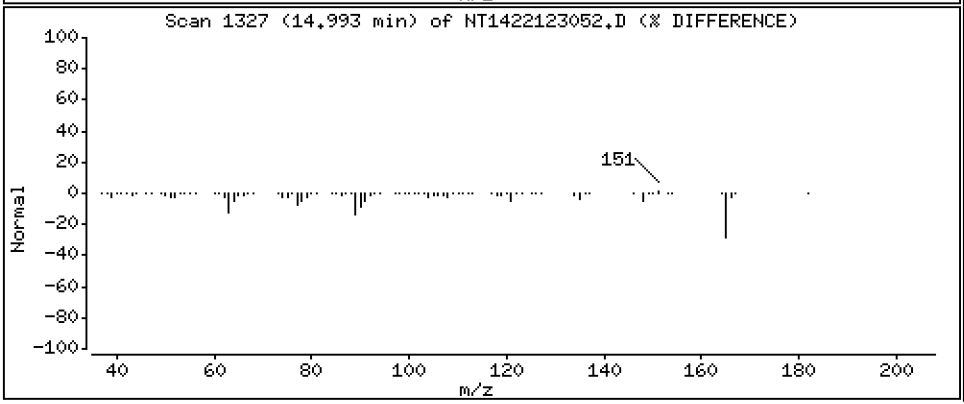
40 Acenaphthylene

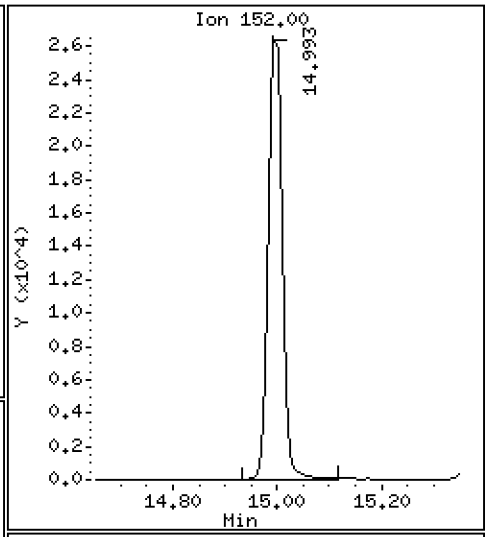
Concentration: 0.5321 ug/mL

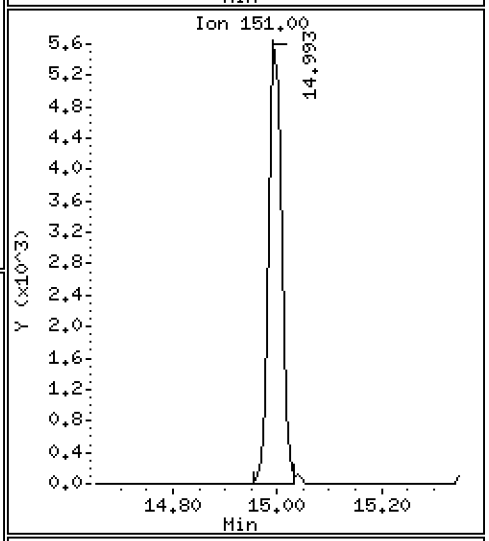


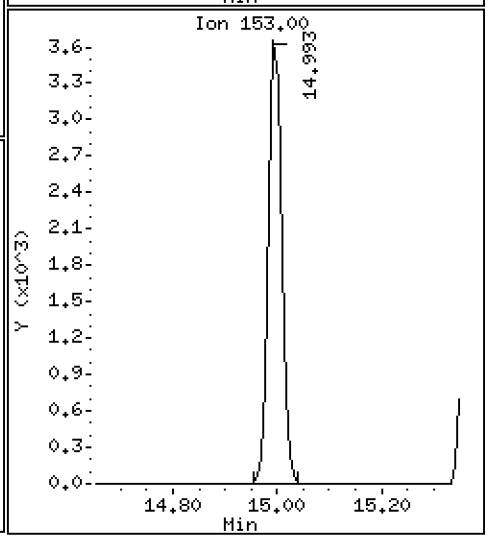












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

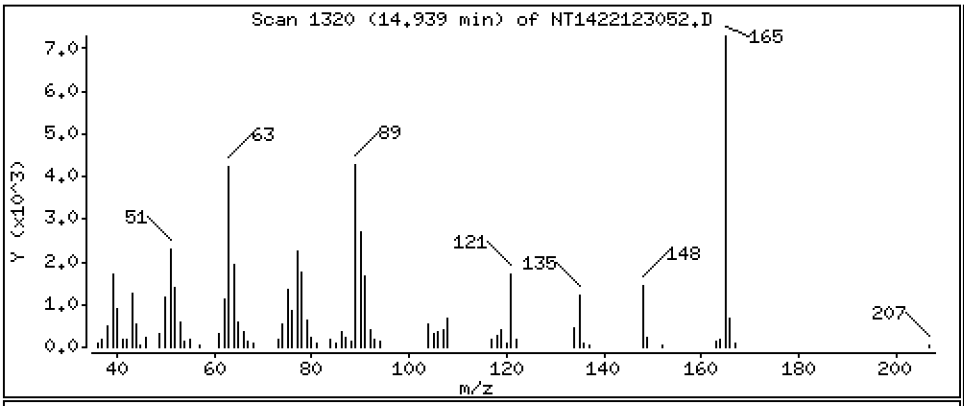
Operator: VTS

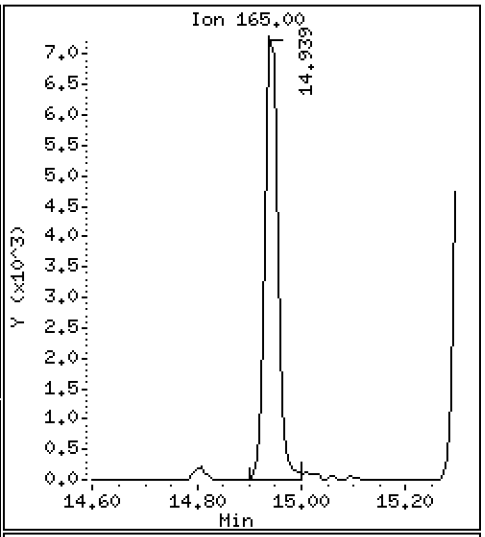
Column phase: ZB-5msi

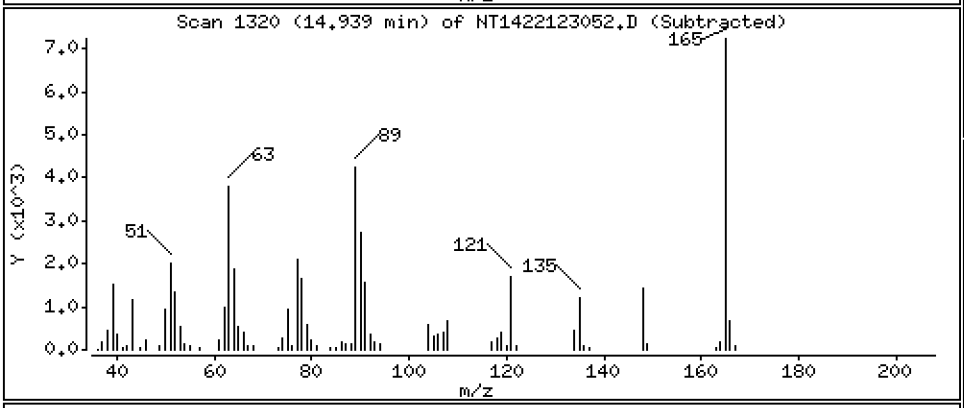
Column diameter: 0.25

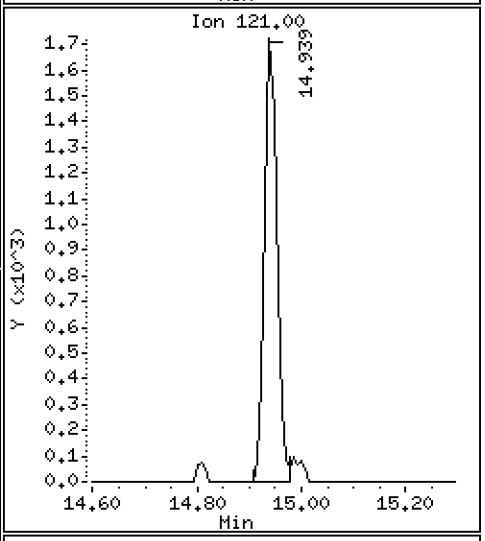
41 2,6-Dinitrotoluene

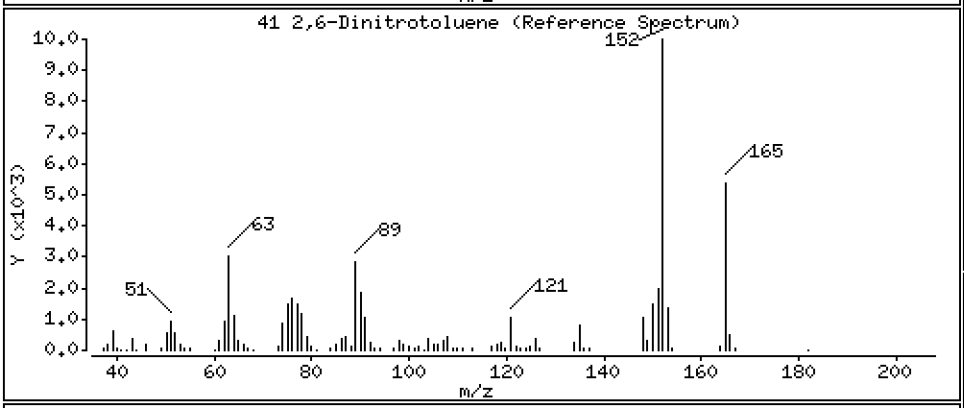
Concentration: 0.8515 ug/mL

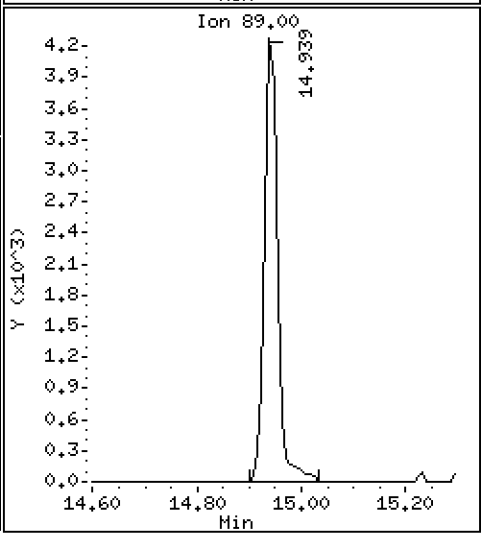


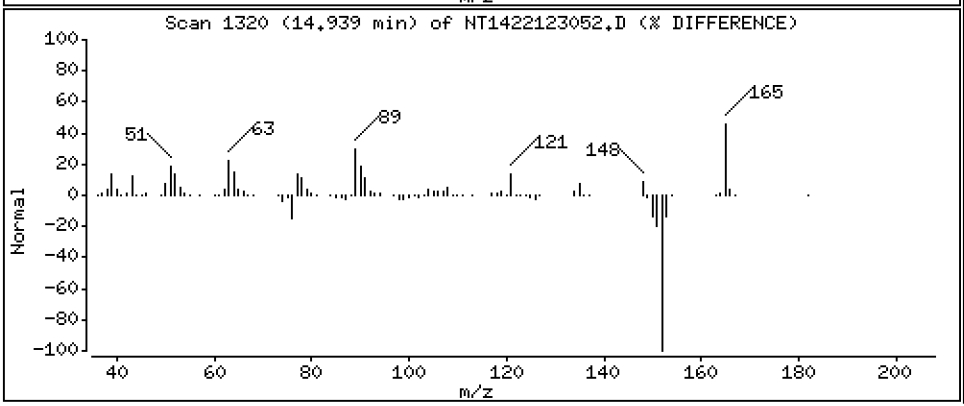












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

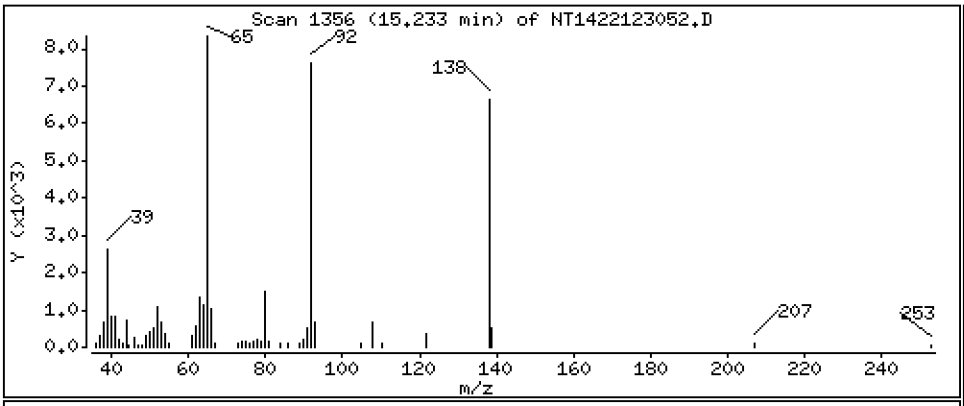
Operator: VTS

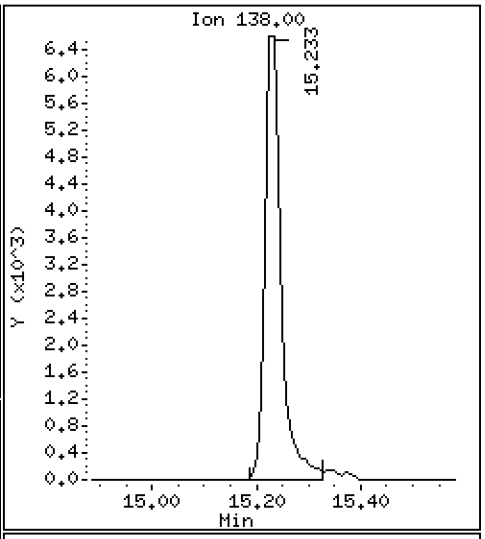
Column phase: ZB-5msi

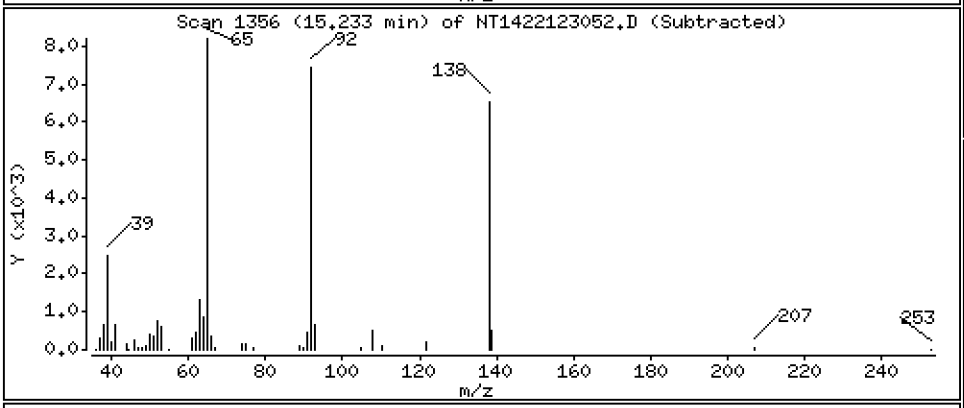
Column diameter: 0.25

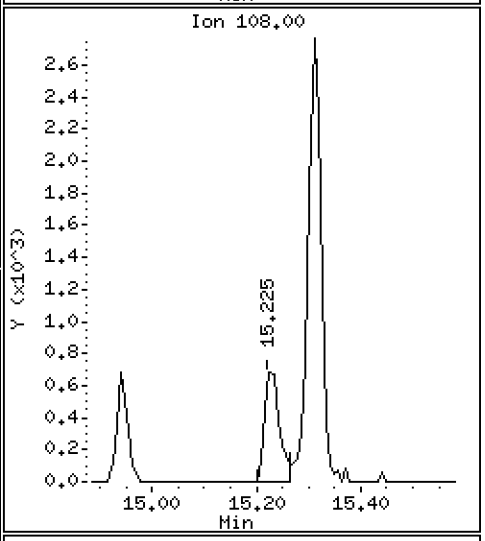
43 3-Nitroaniline

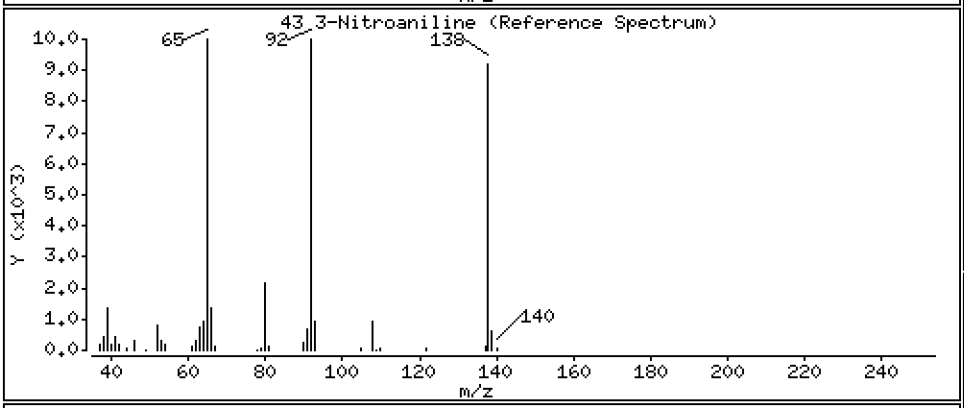
Concentration: 0.8004 ug/mL

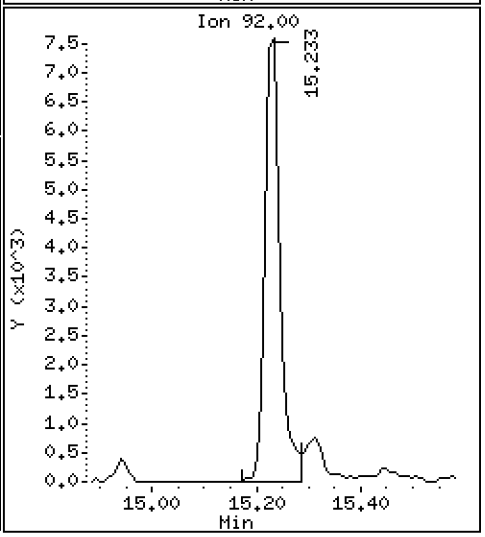


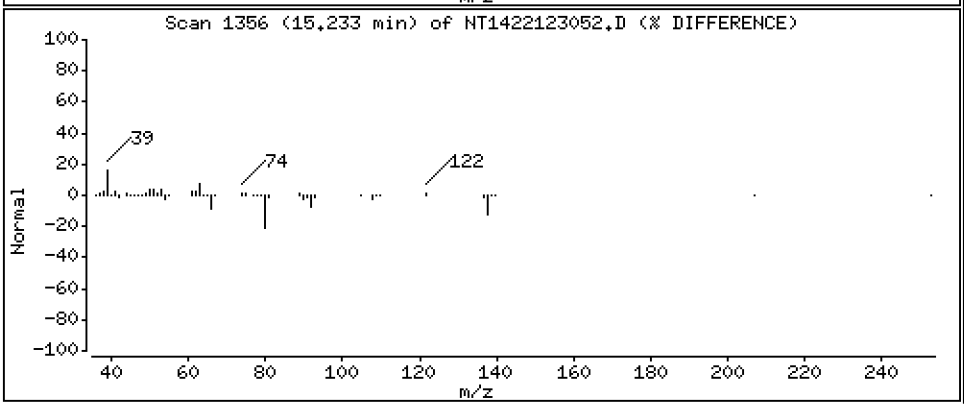












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

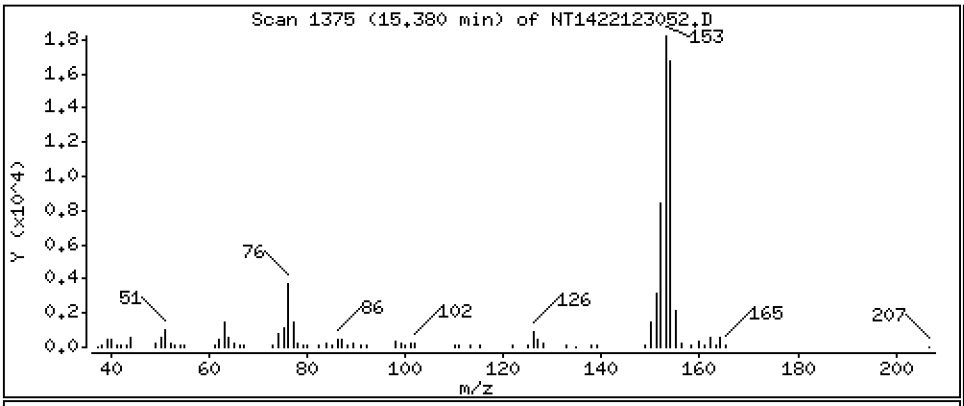
Operator: VTS

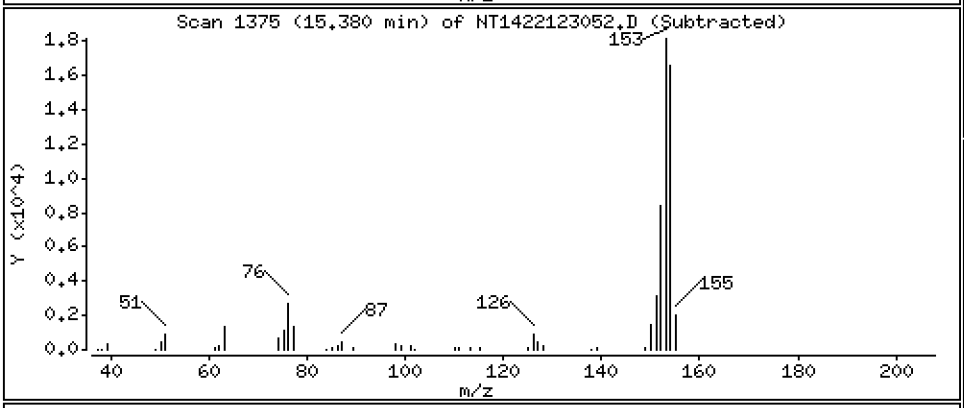
Column phase: ZB-5msi

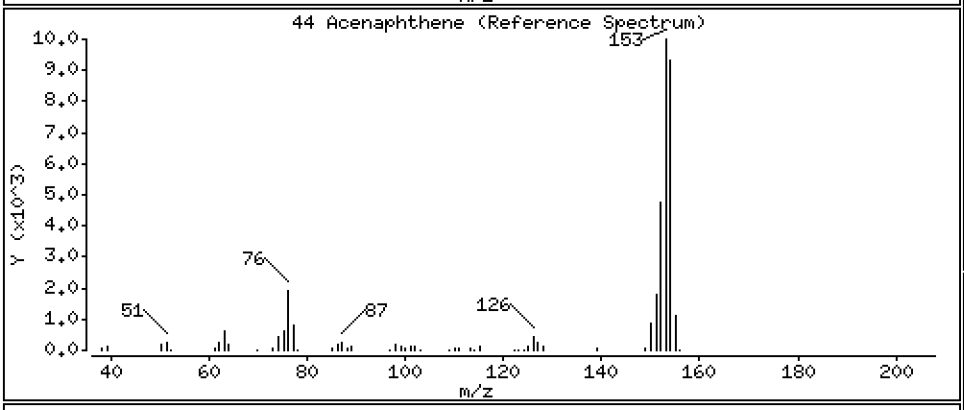
Column diameter: 0.25

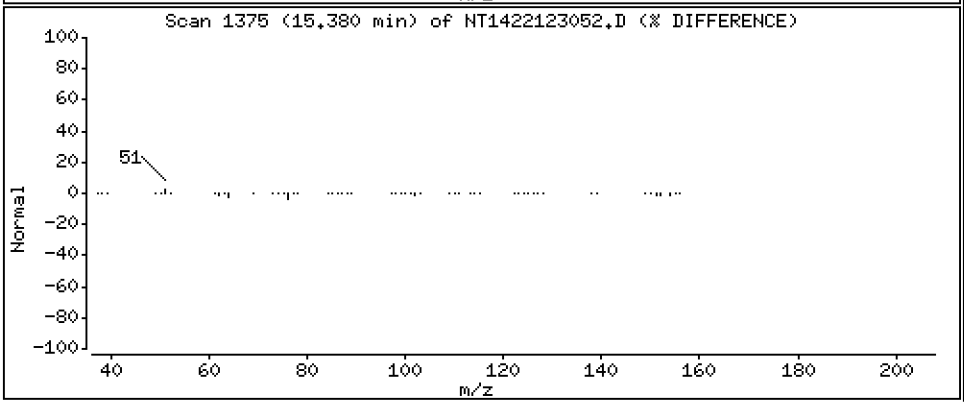
44 Acenaphthene

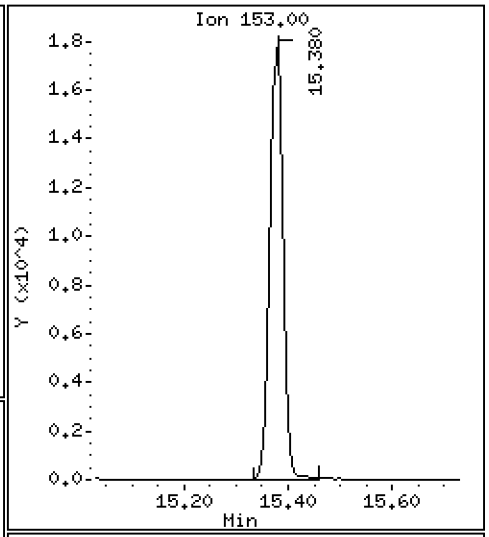
Concentration: 0.4966 ug/mL

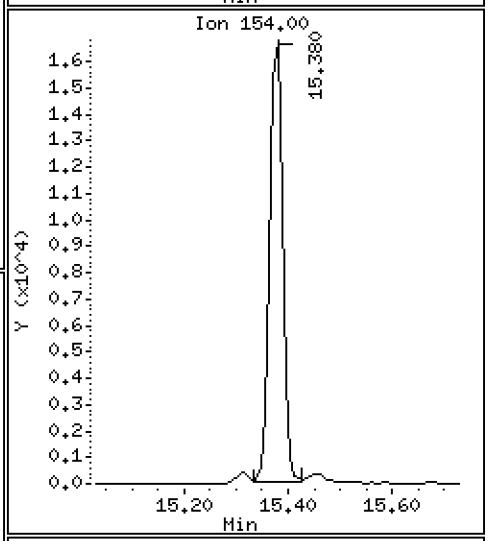


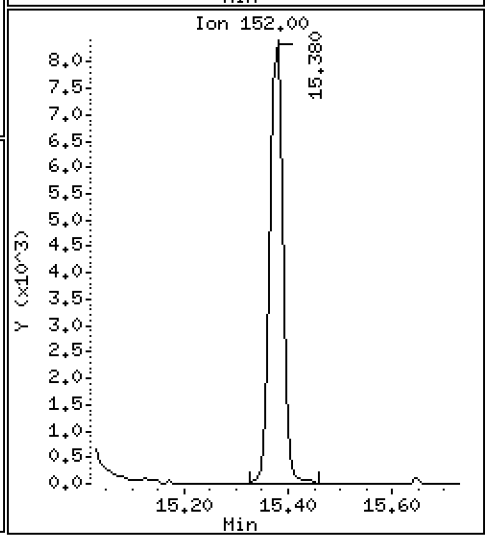












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

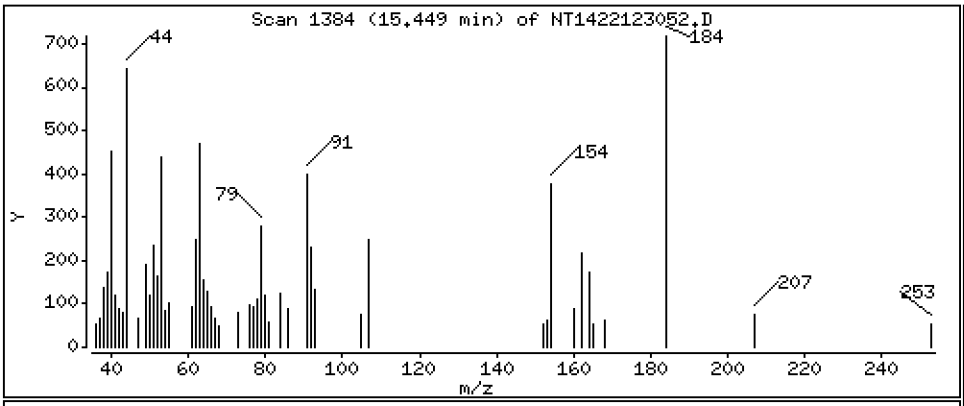
Operator: VTS

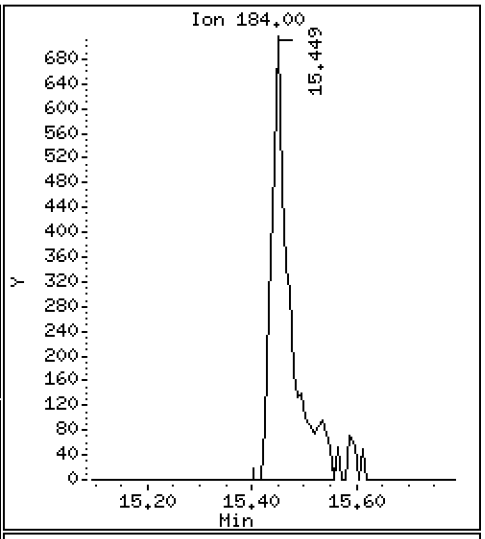
Column phase: ZB-5msi

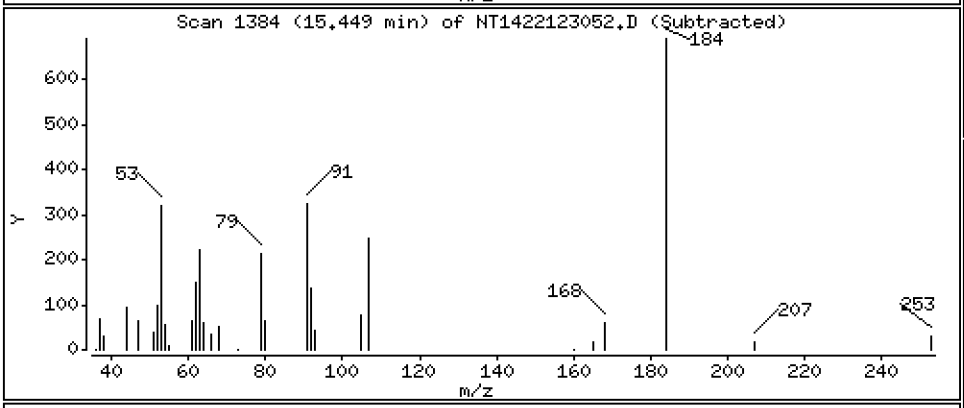
Column diameter: 0.25

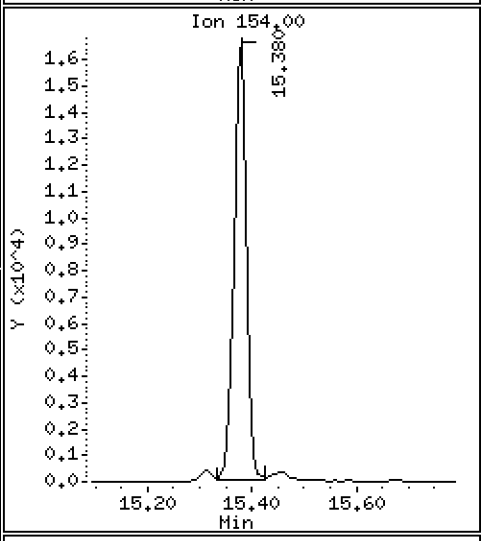
45 2,4-Dinitrophenol

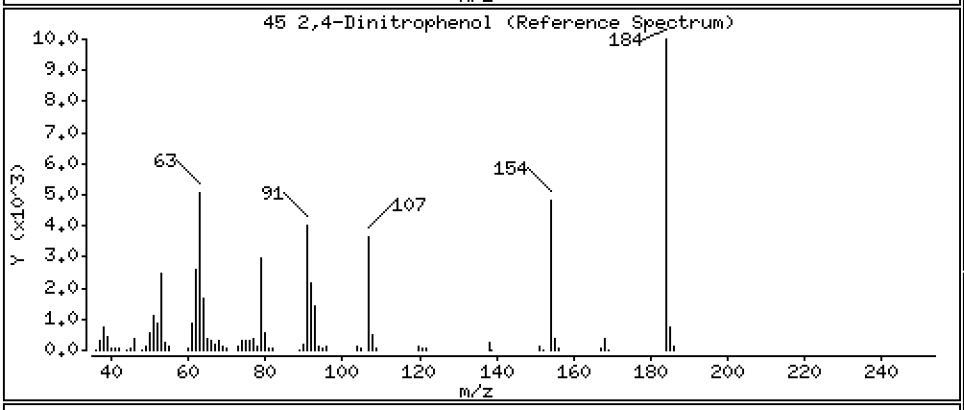
Concentration: 0.1450 ug/mL

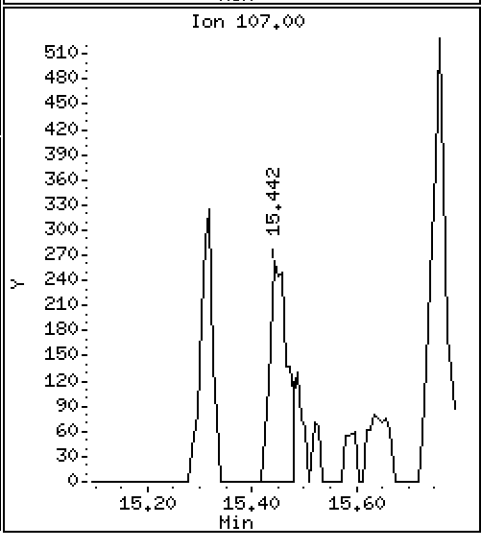


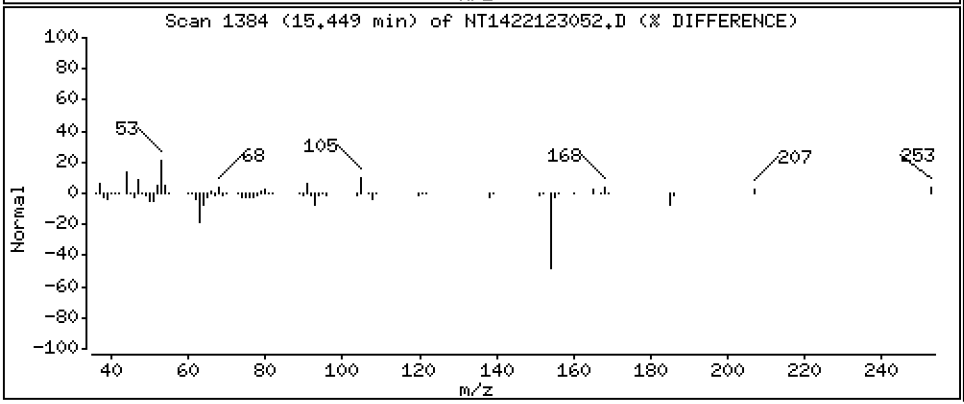












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

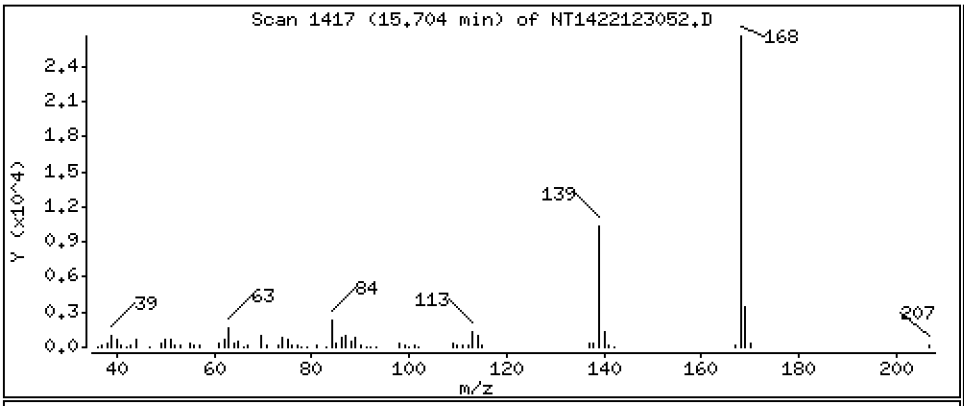
Operator: VTS

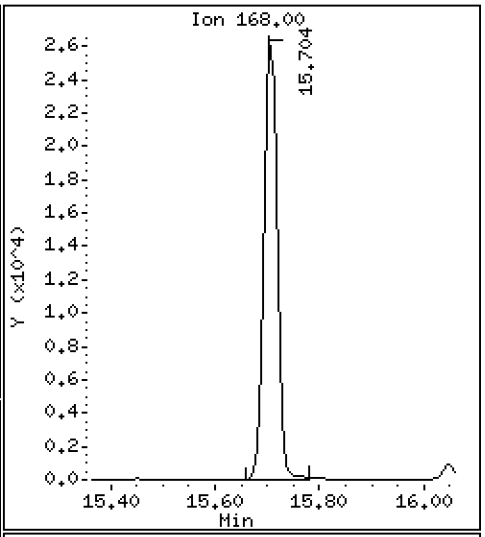
Column phase: ZB-5msi

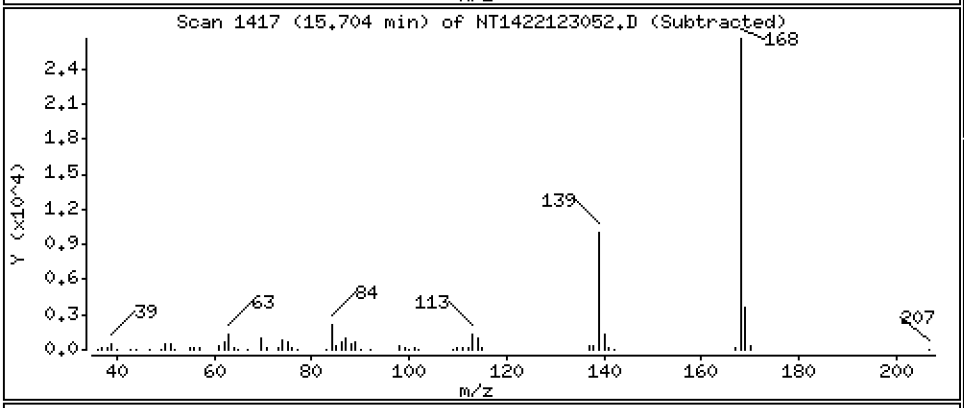
Column diameter: 0.25

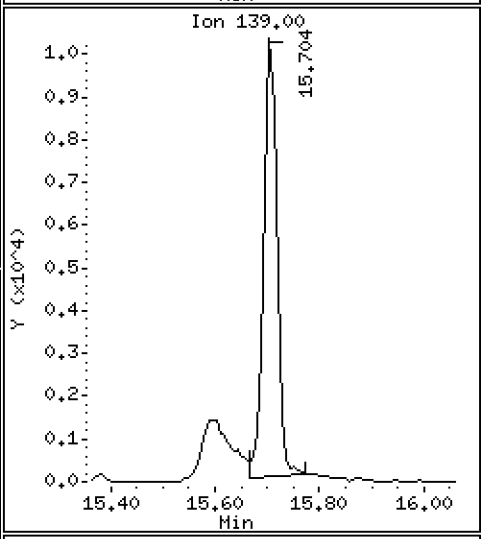
46 Dibenzofuran

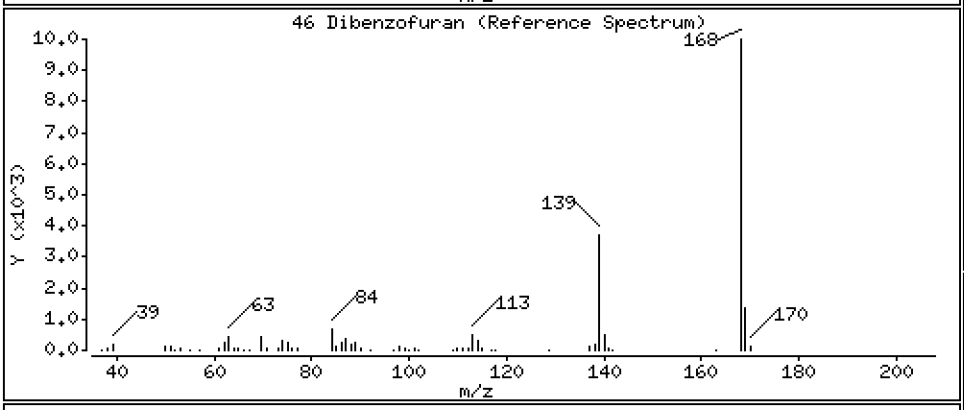
Concentration: 0.4927 ug/mL

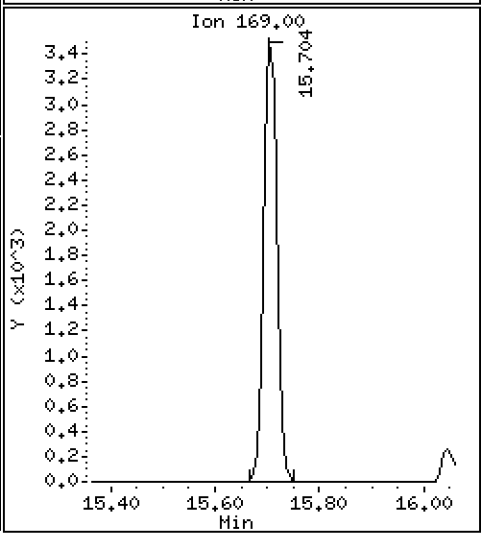


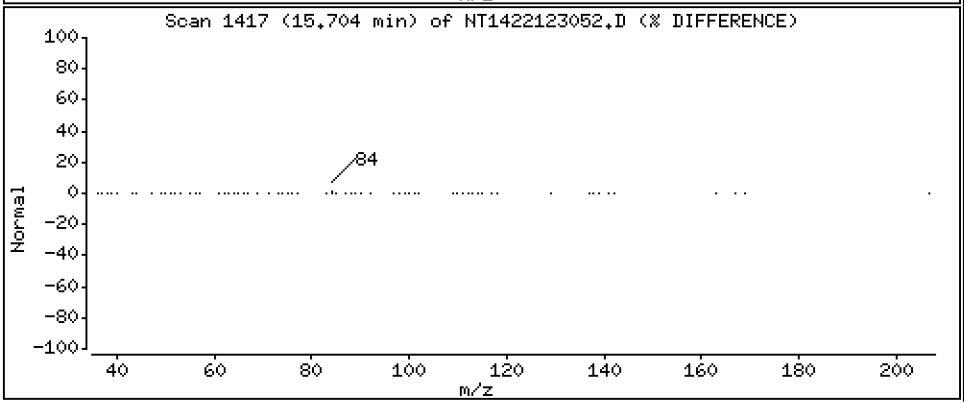












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

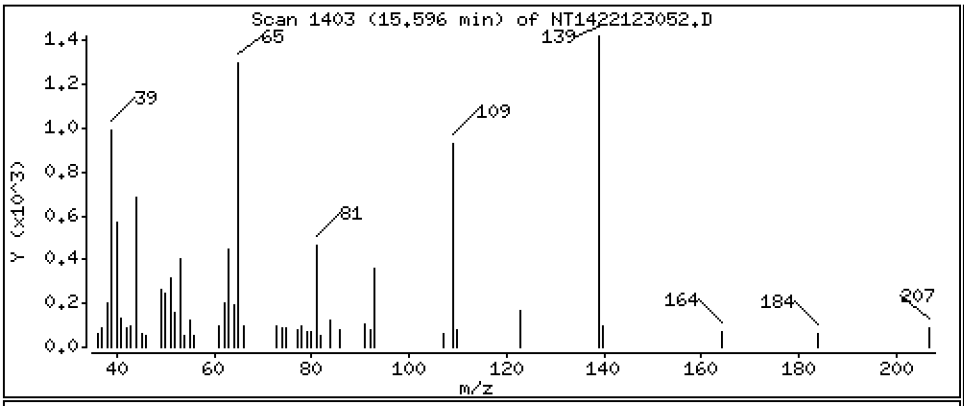
Operator: VTS

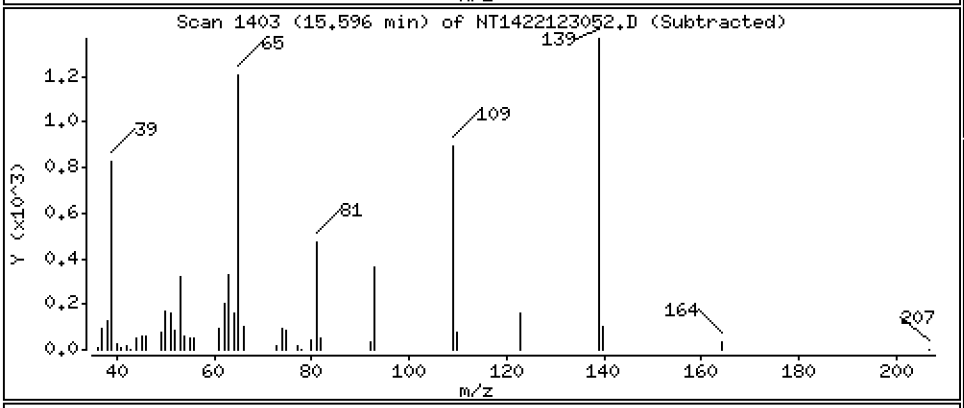
Column phase: ZB-5msi

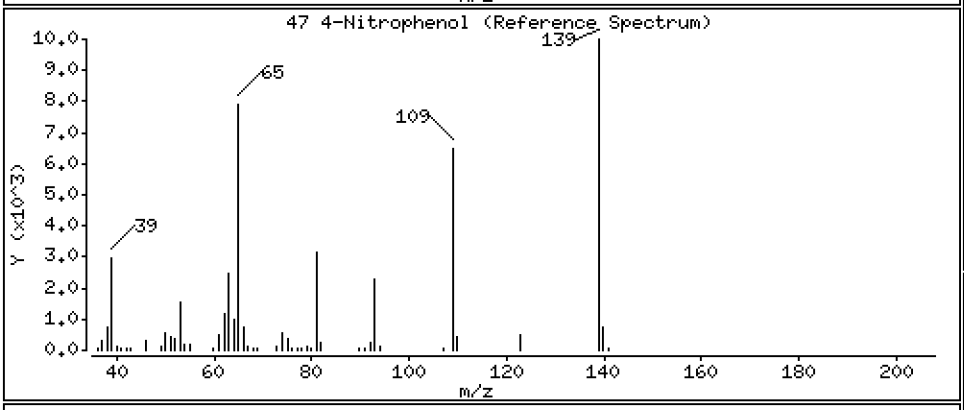
Column diameter: 0.25

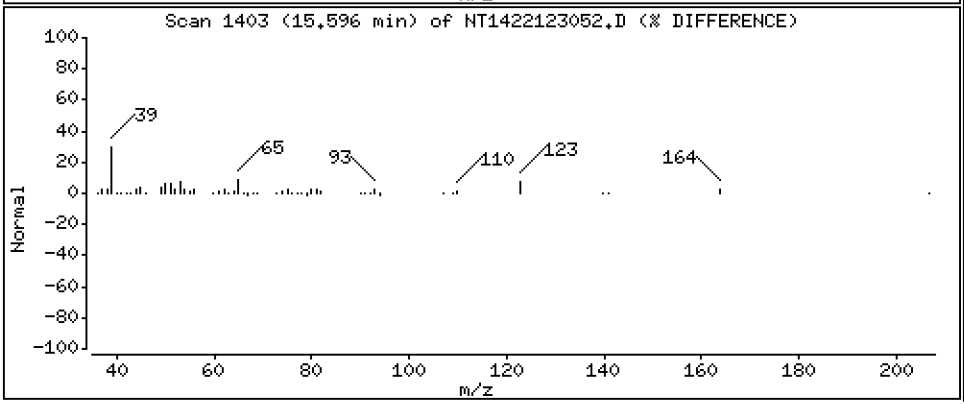
47 4-Nitrophenol

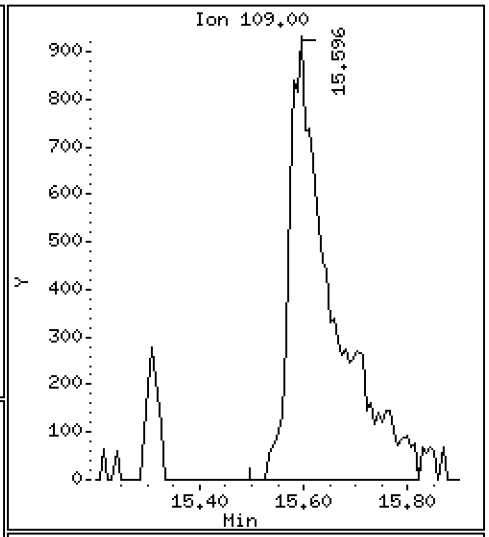
Concentration: 0.6475 ug/mL

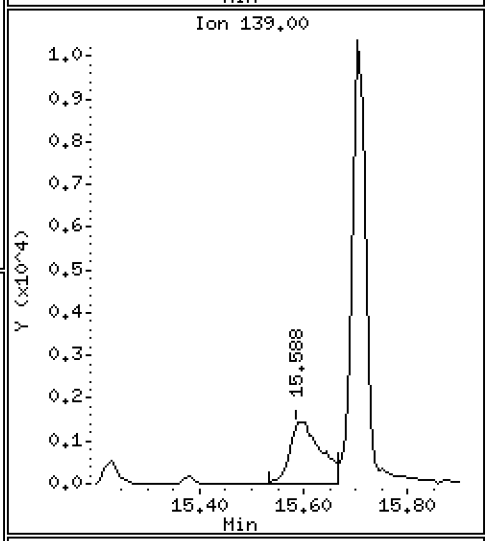


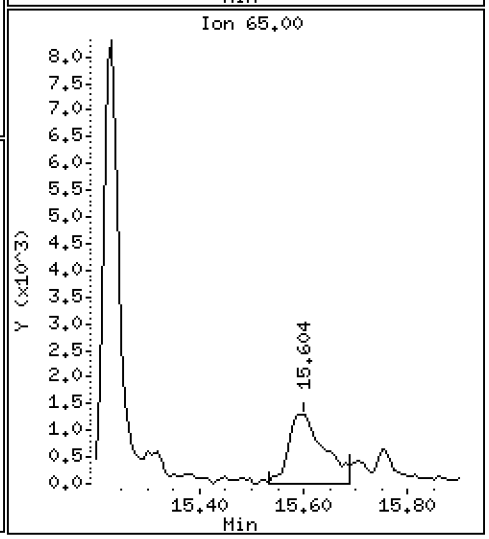












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

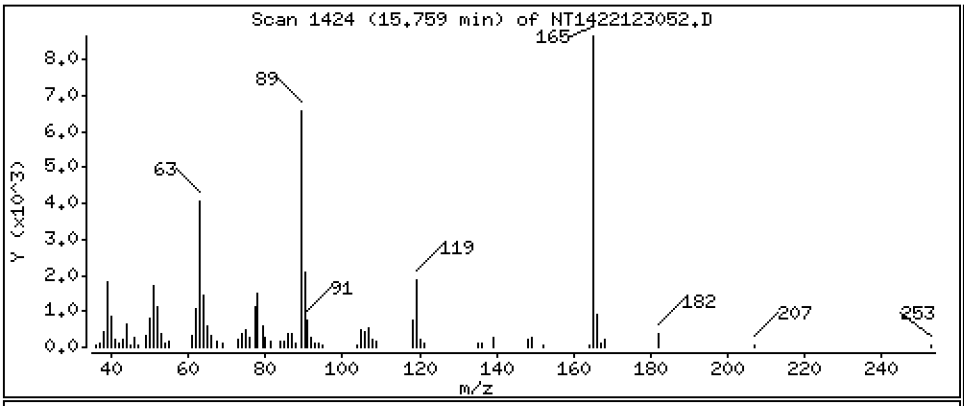
Operator: VTS

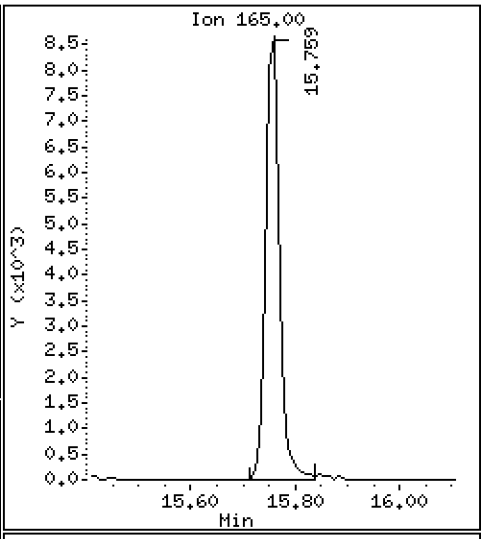
Column phase: ZB-5msi

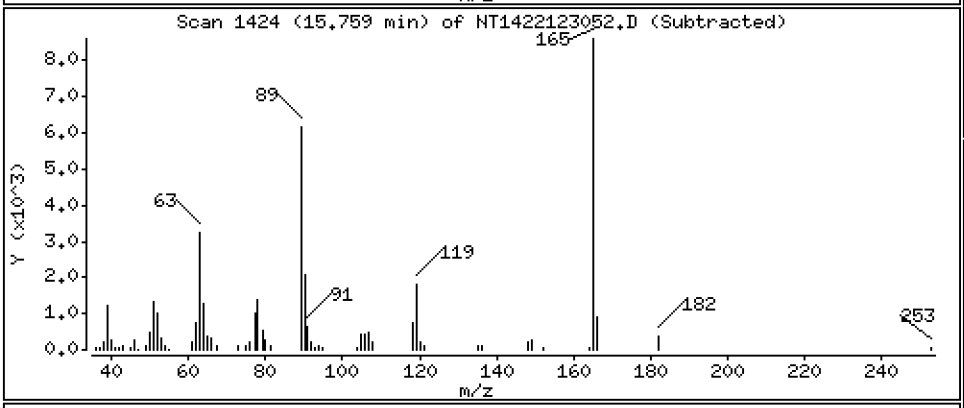
Column diameter: 0.25

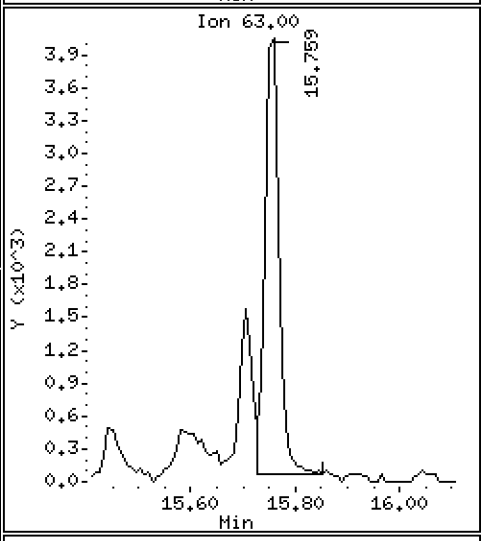
48 2,4-Dinitrotoluene

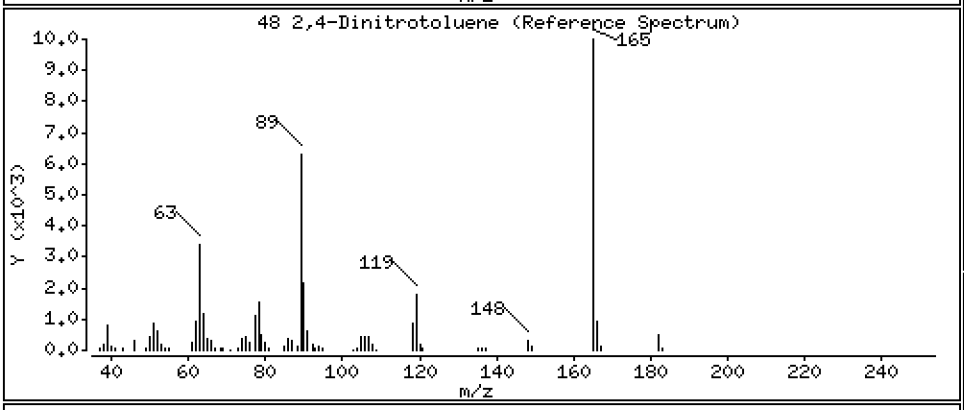
Concentration: 0.7788 ug/mL

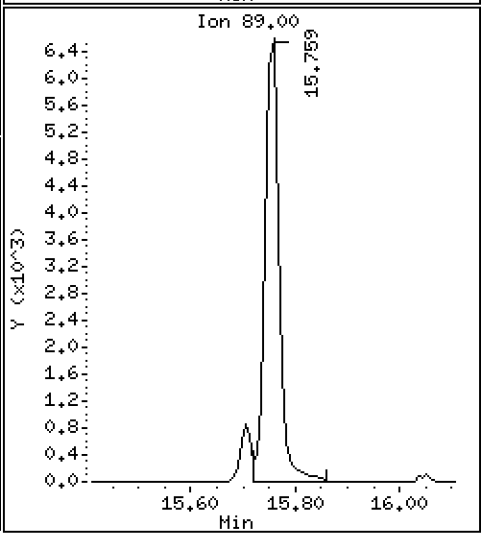


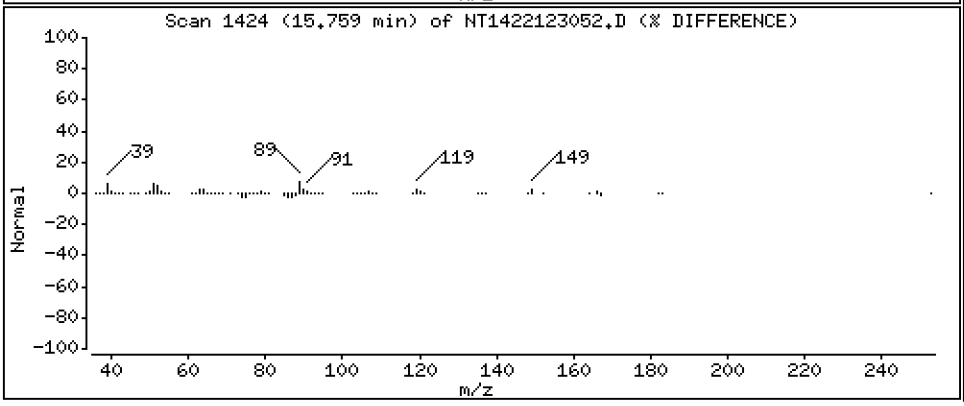












Data File: \\target\share\chem3\nt14.i\20221230B.b\NT1422123052.D

Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

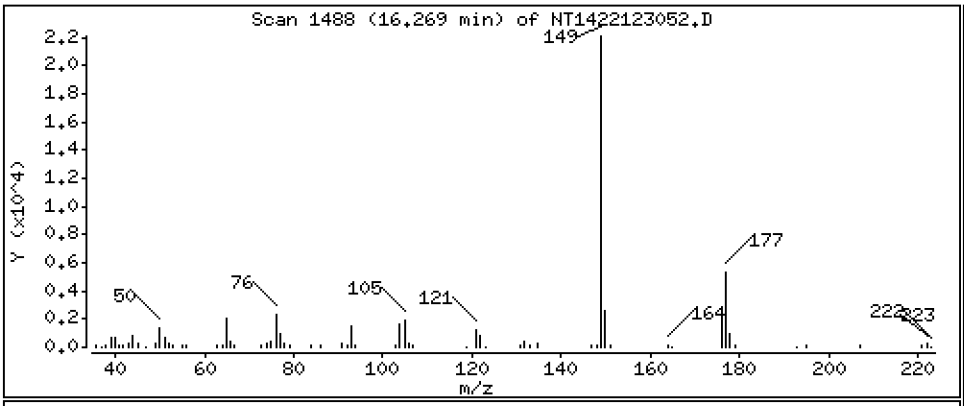
Operator: VTS

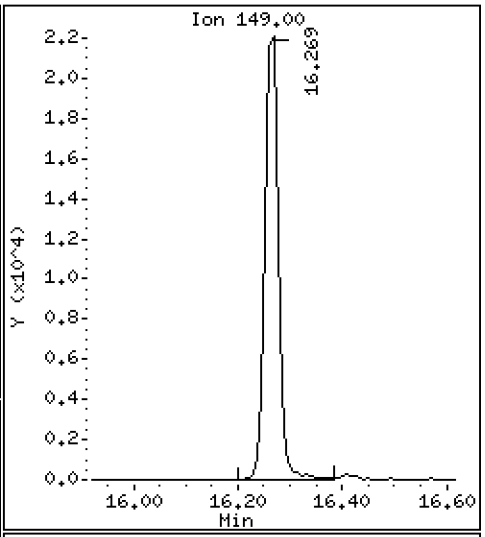
Column phase: ZB-5msi

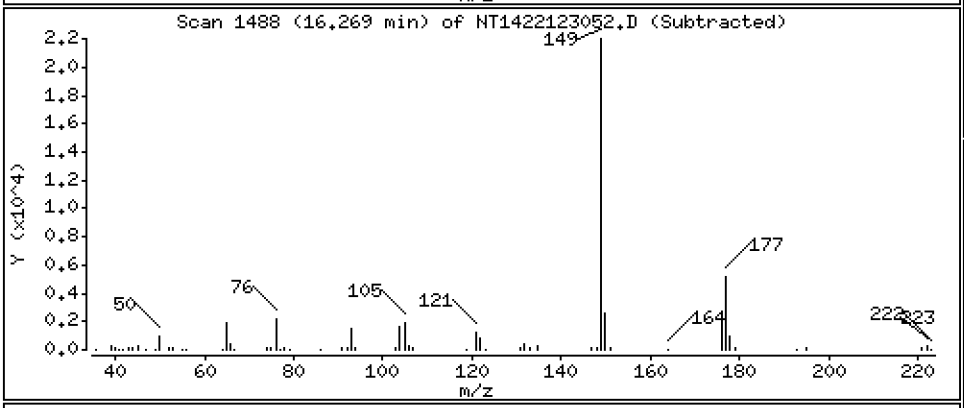
Column diameter: 0.25

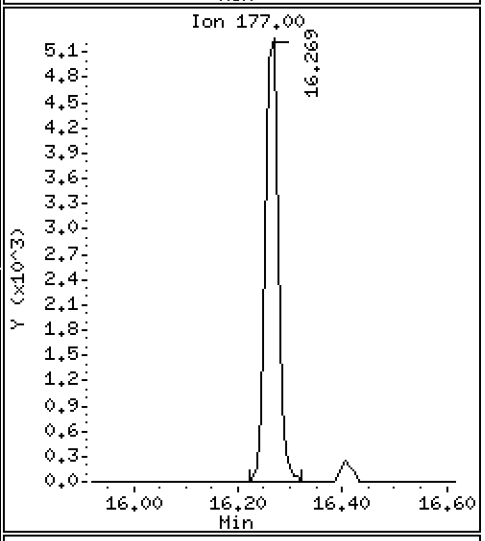
50 Diethylphthalate

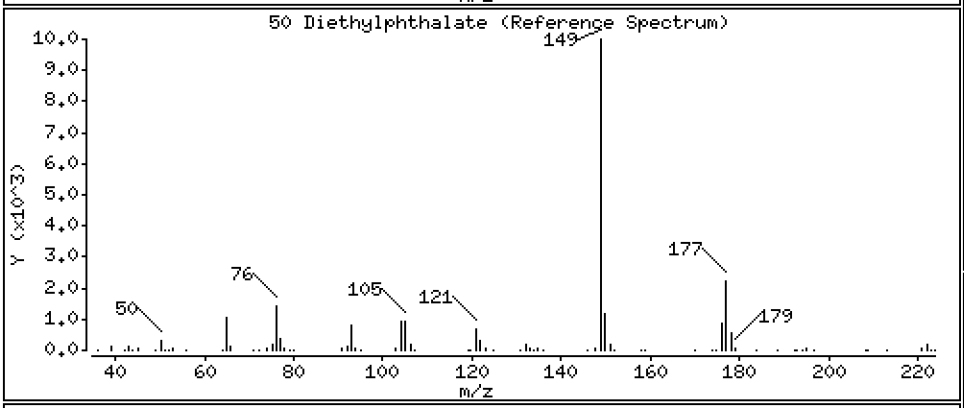
Concentration: 0.5374 ug/mL

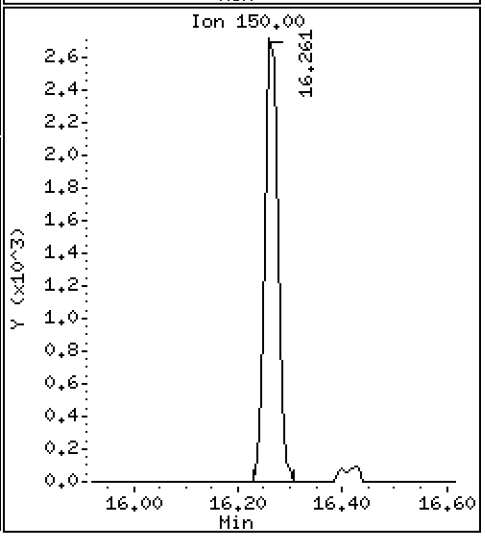


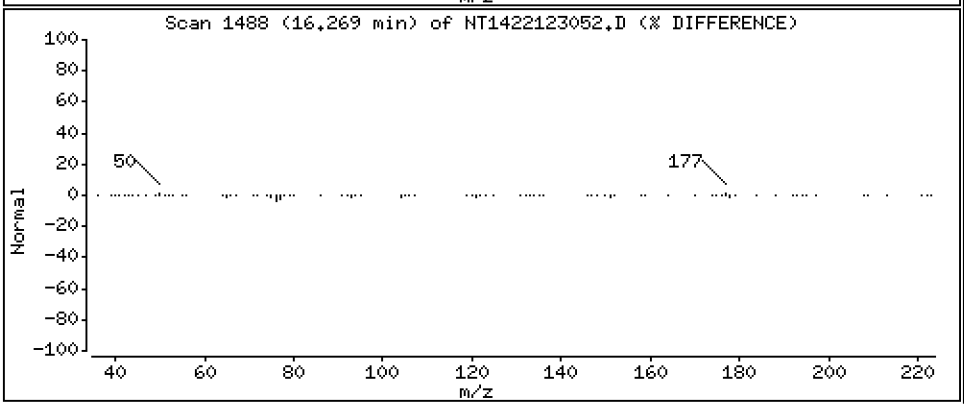












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

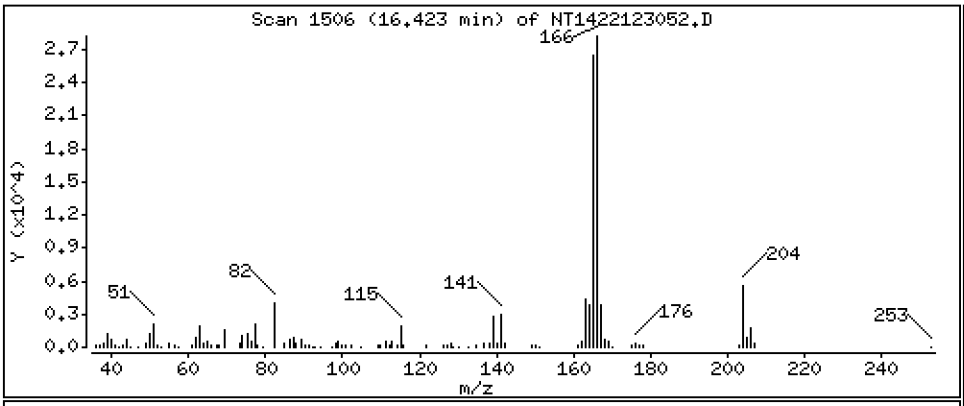
Operator: VTS

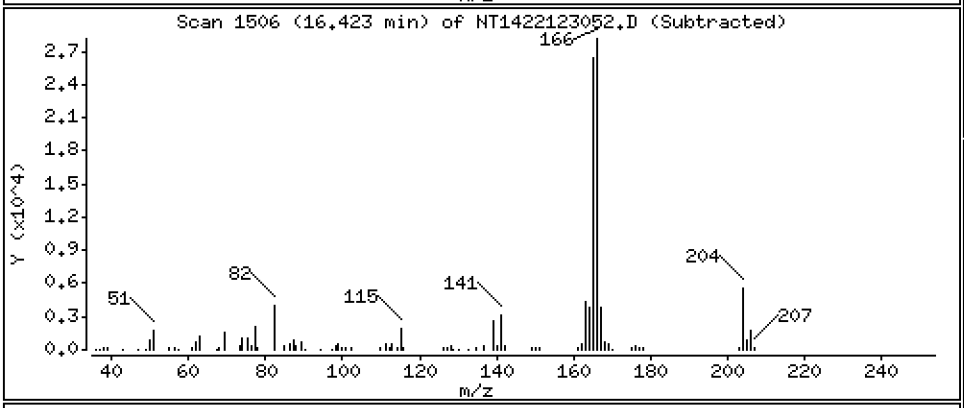
Column phase: ZB-5msi

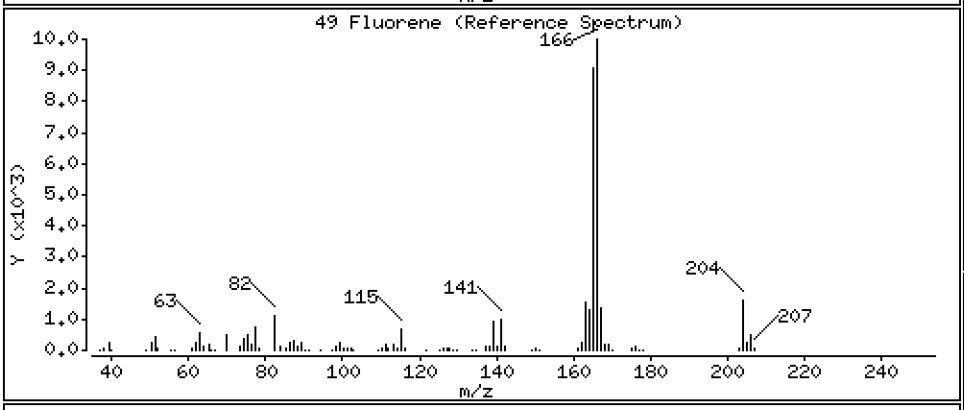
Column diameter: 0.25

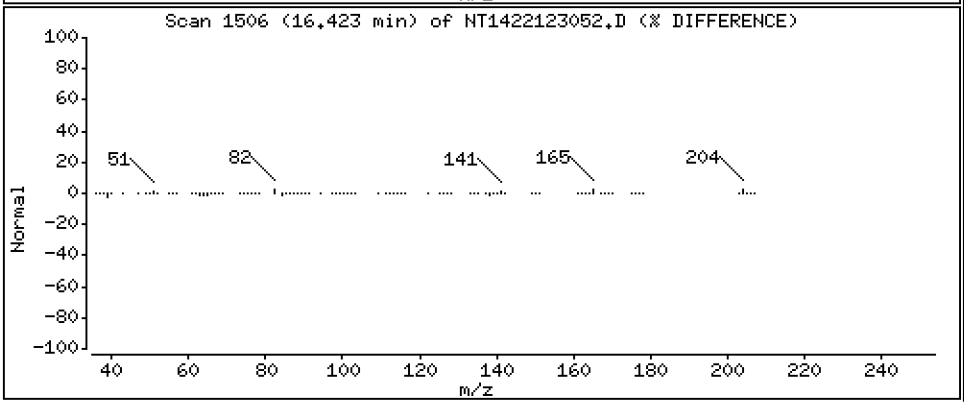
49 Fluorene

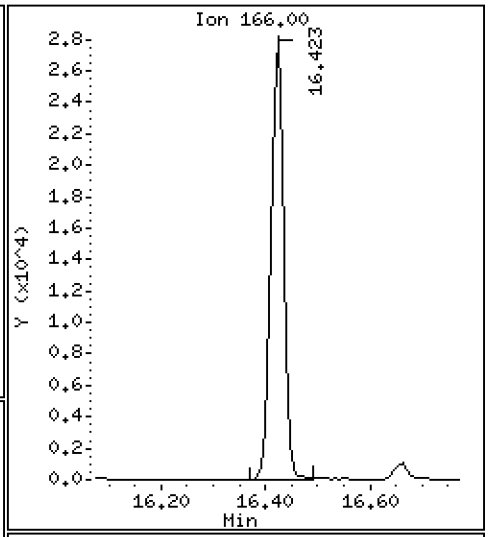
Concentration: 0.4836 ug/mL

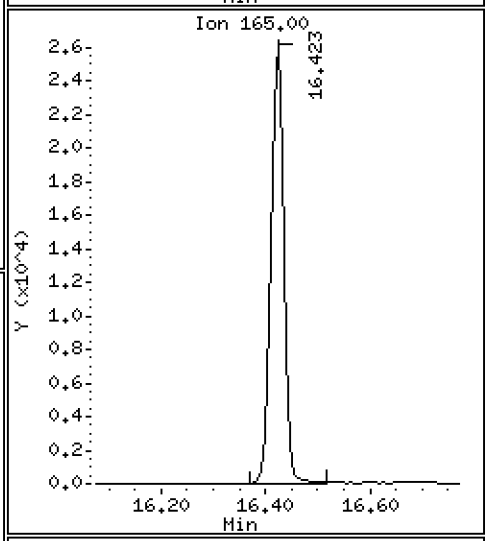


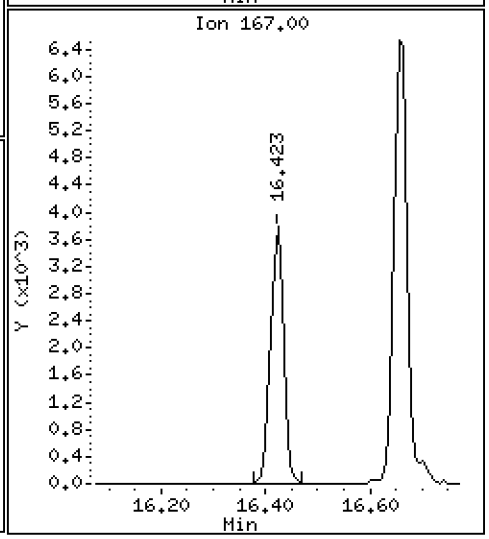












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

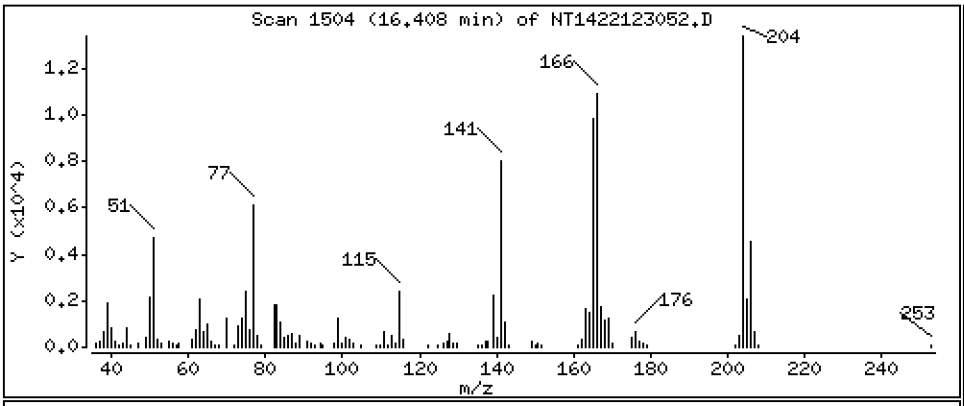
Operator: VTS

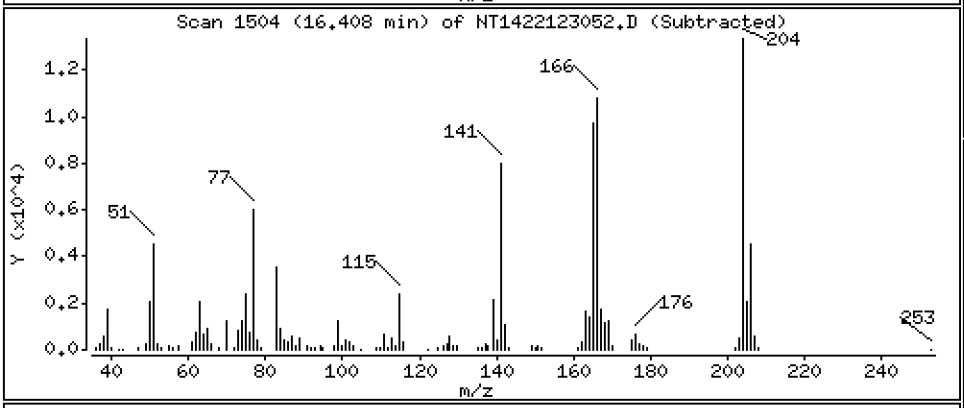
Column phase: ZB-5msi

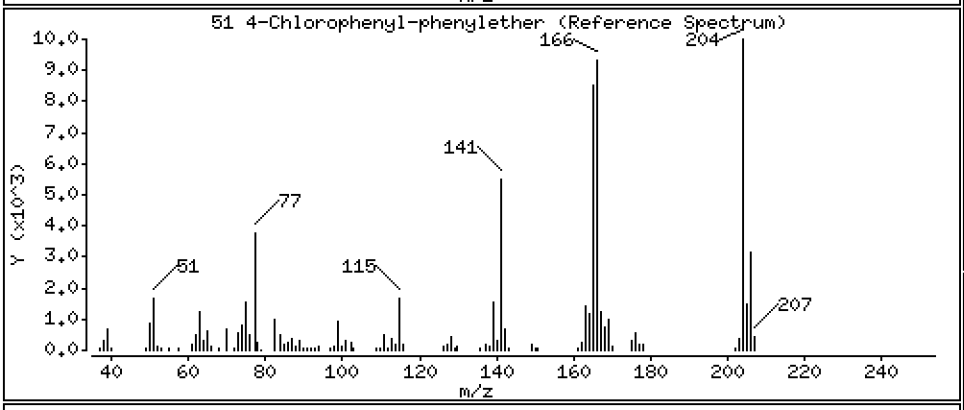
Column diameter: 0.25

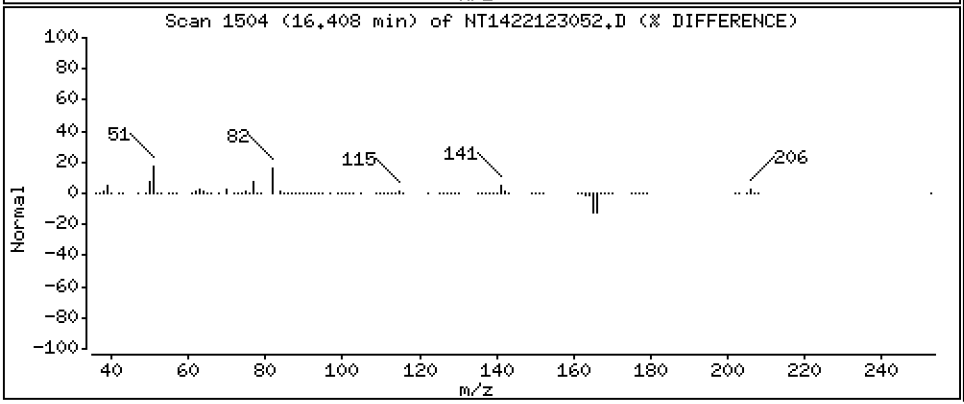
51 4-Chlorophenyl-phenylether

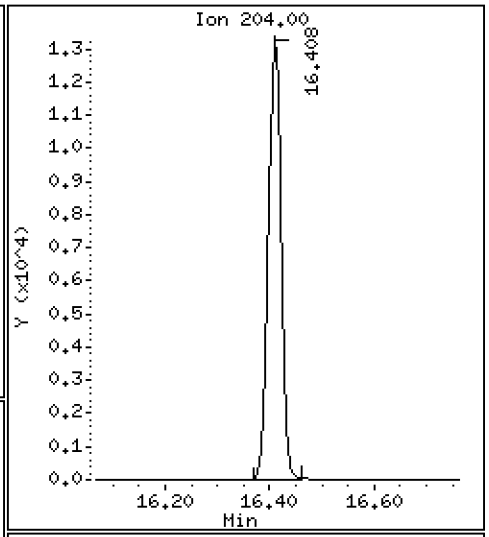
Concentration: 0.4585 ug/mL

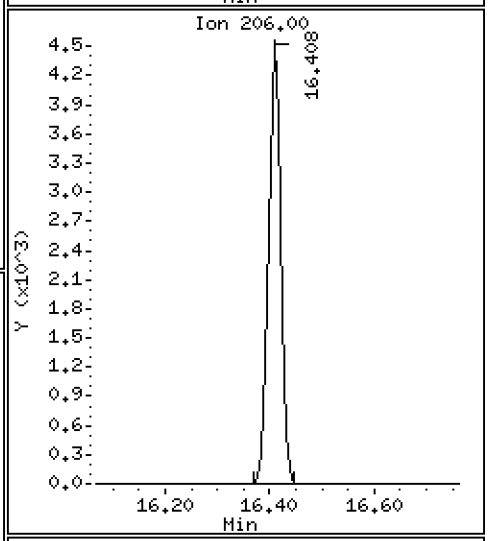


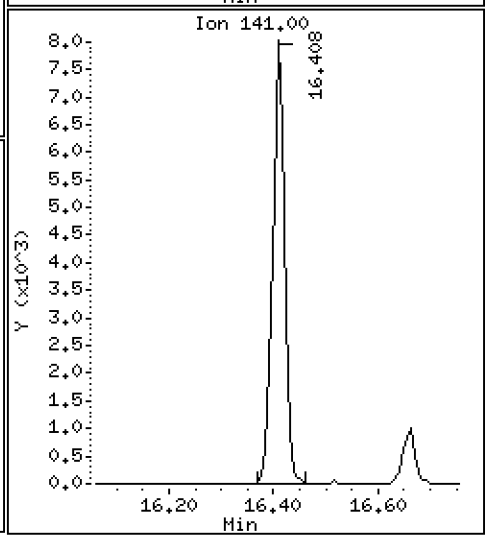












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

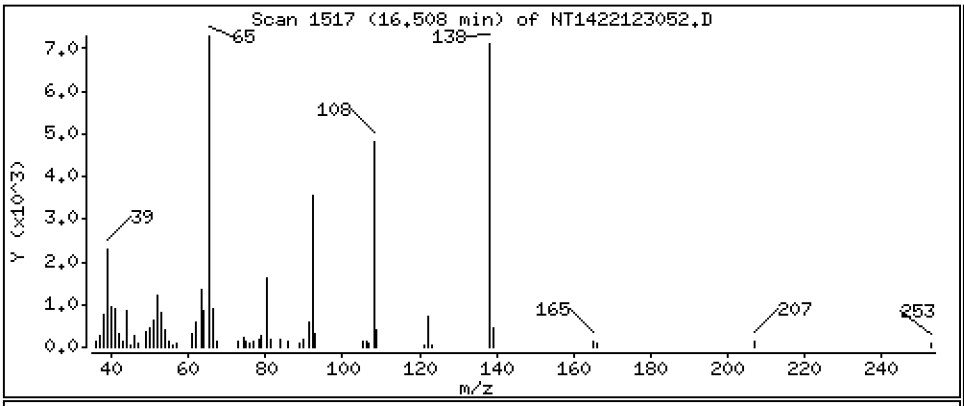
Operator: VTS

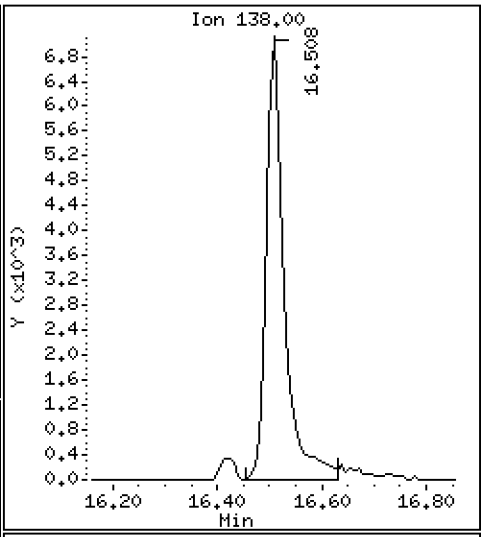
Column phase: ZB-5msi

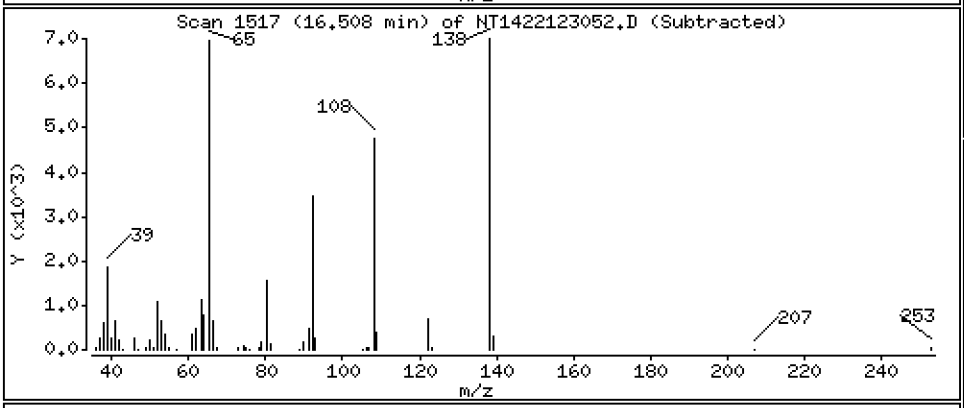
Column diameter: 0.25

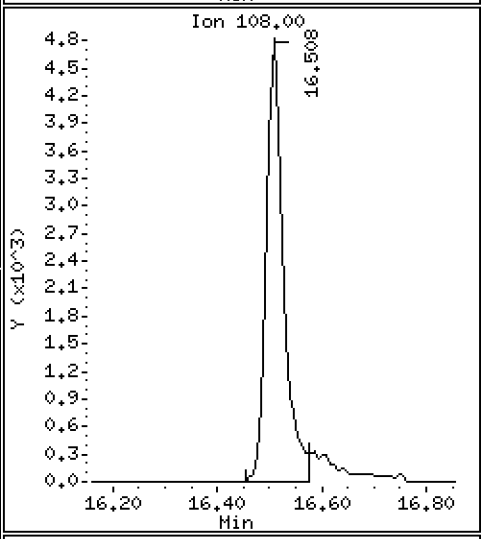
52 4-Nitroaniline

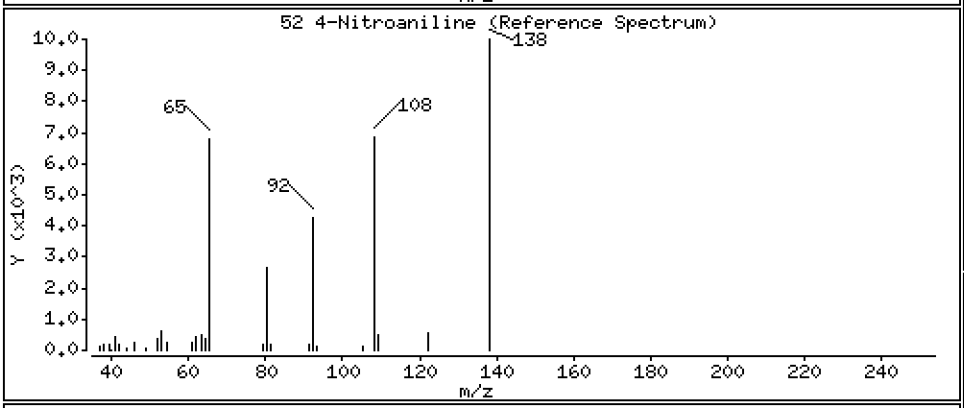
Concentration: 0.7926 ug/mL

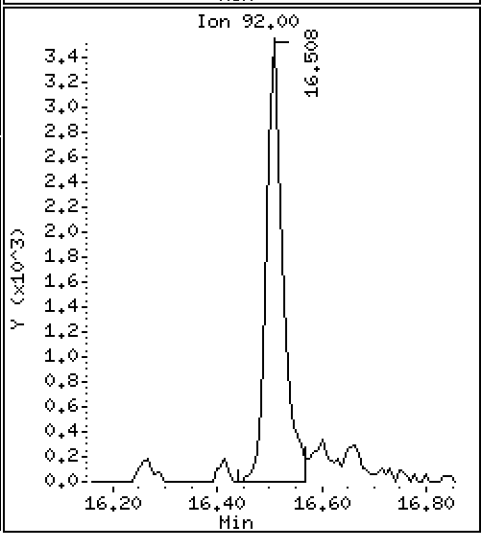


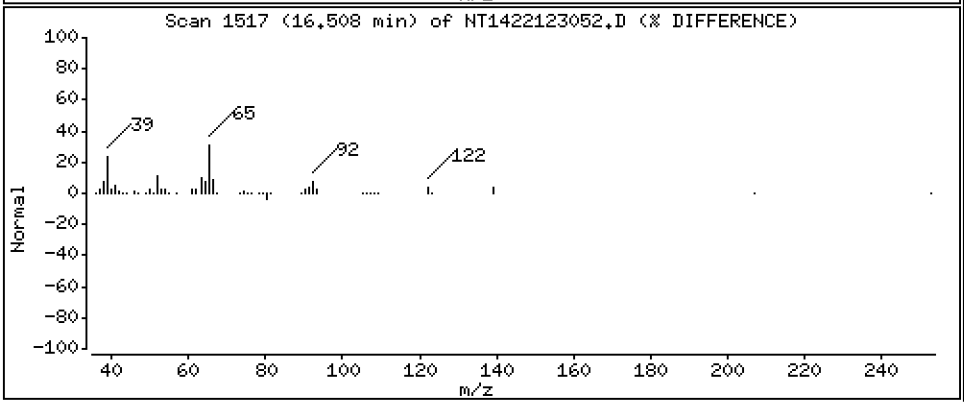












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

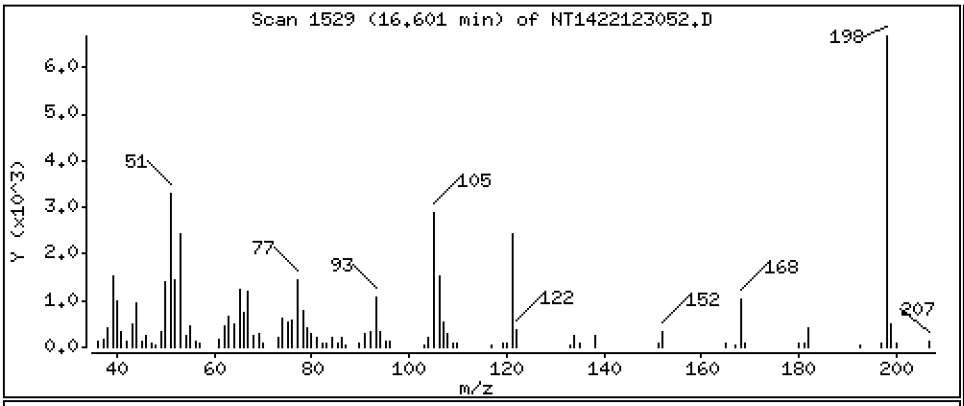
Operator: VTS

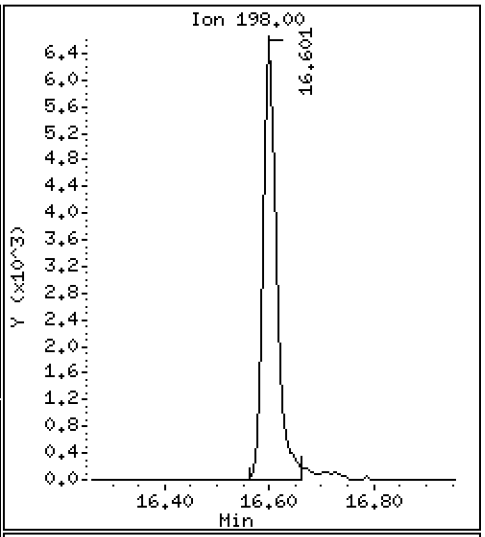
Column phase: ZB-5msi

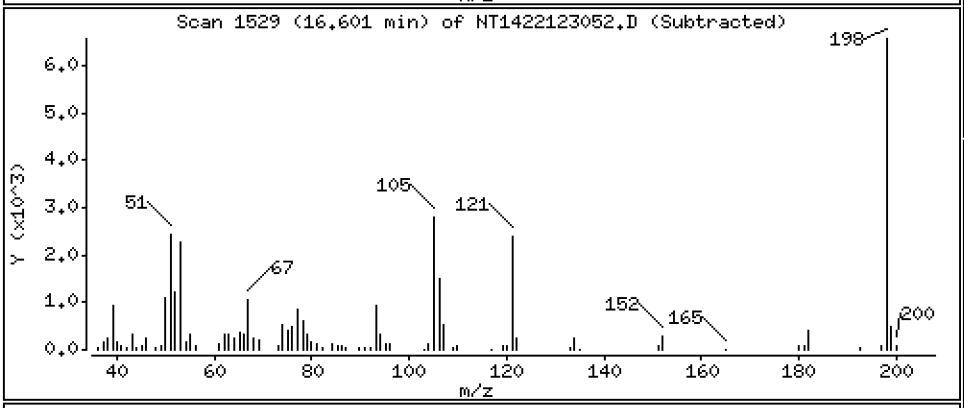
Column diameter: 0.25

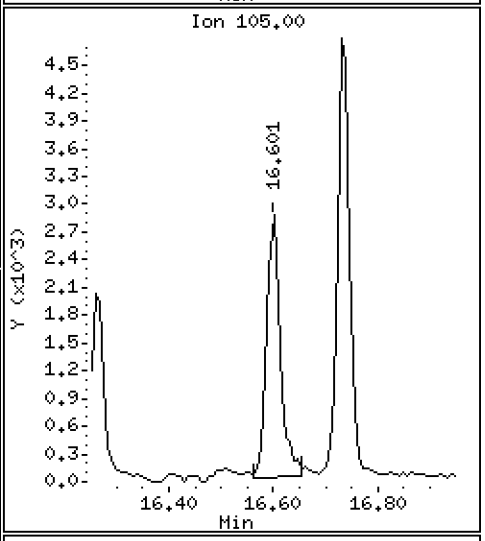
53 4,6-Dinitro-2-methylphenol

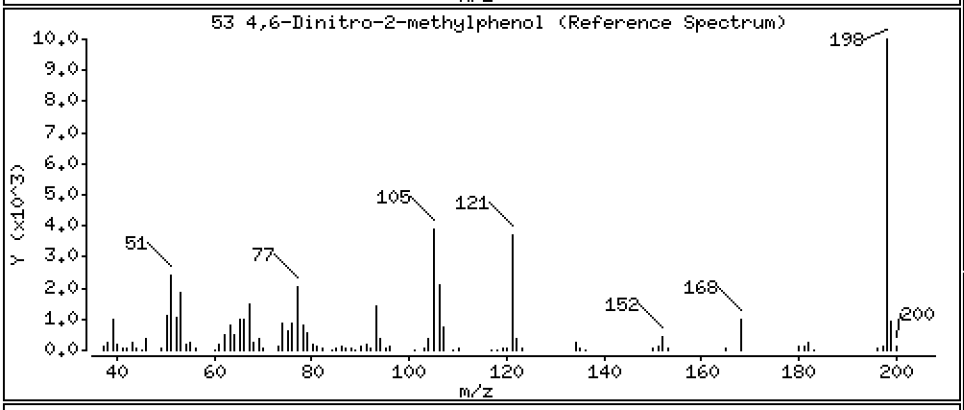
Concentration: 0.7566 ug/mL

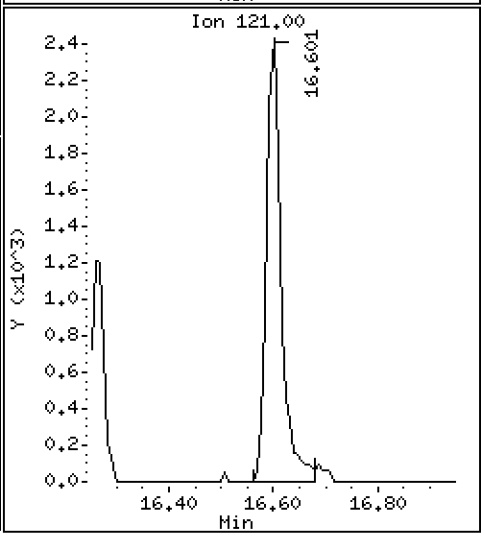


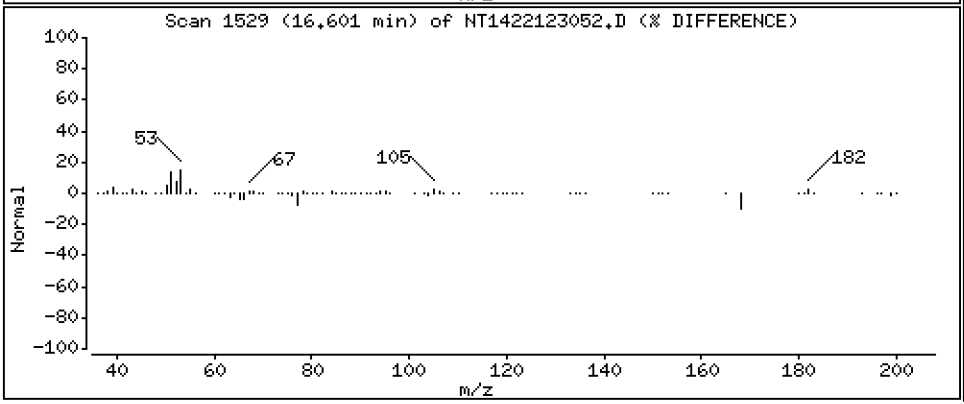












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

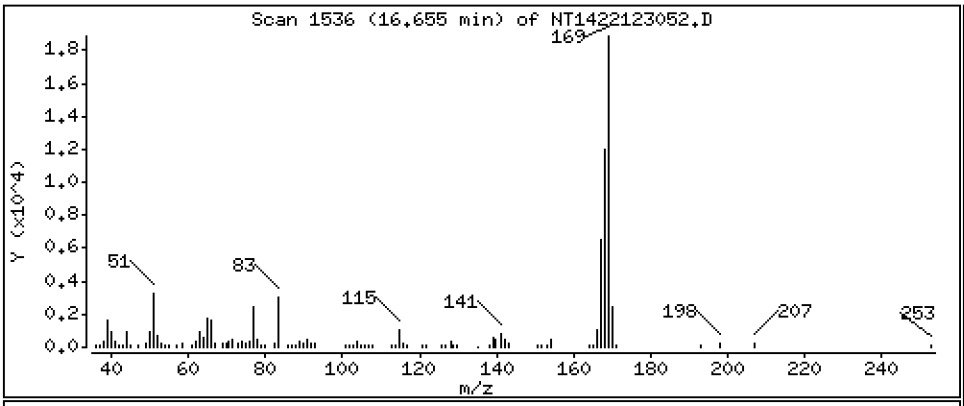
Operator: VTS

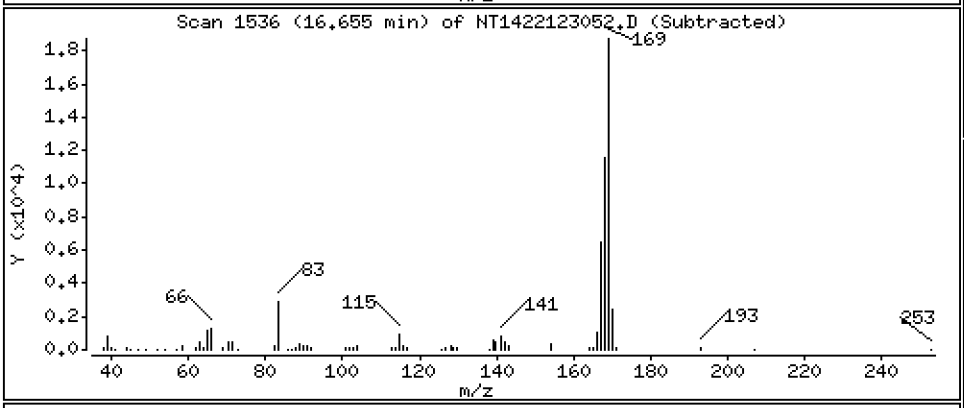
Column phase: ZB-5msi

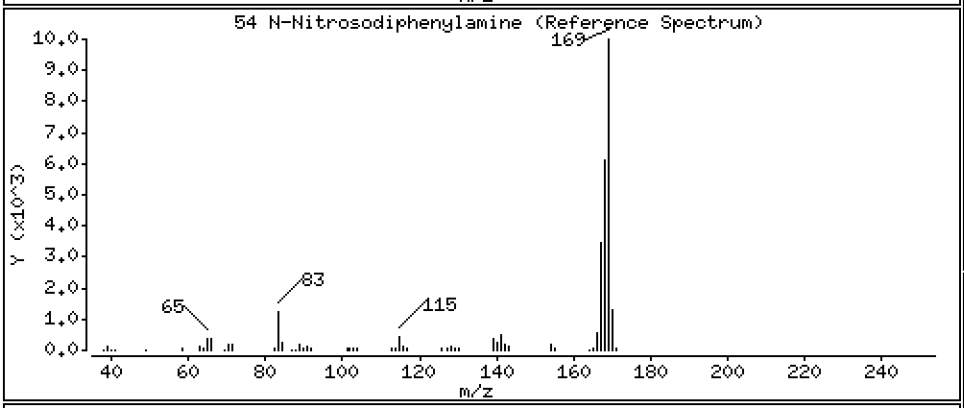
Column diameter: 0.25

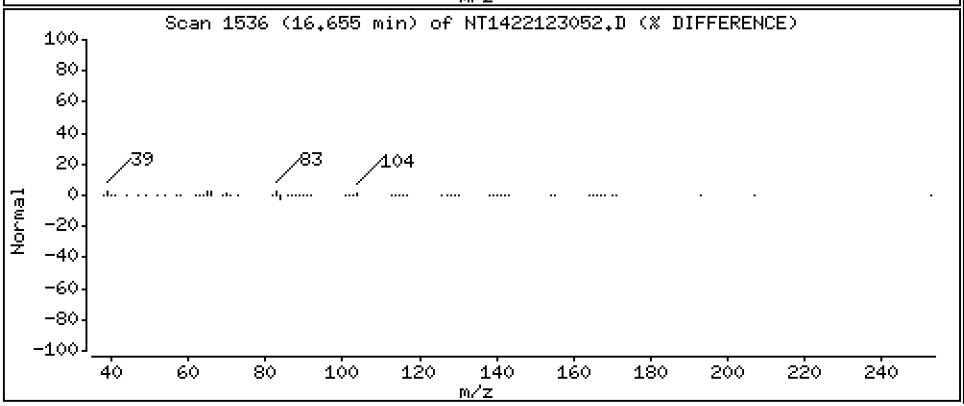
54 N-Nitrosodiphenylamine

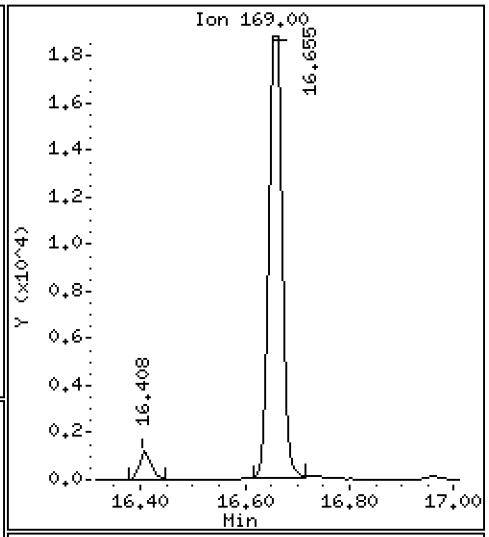
Concentration: 0.5113 ug/mL

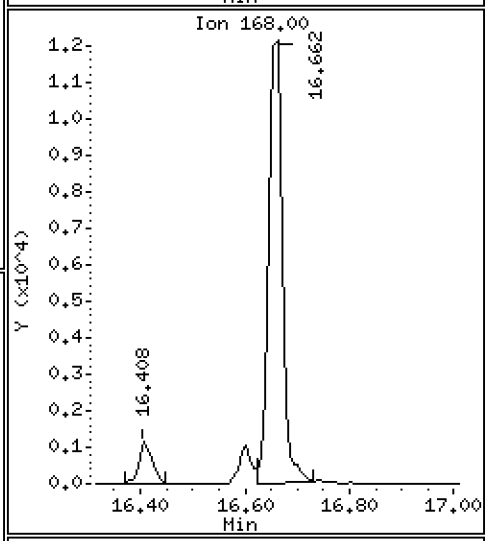


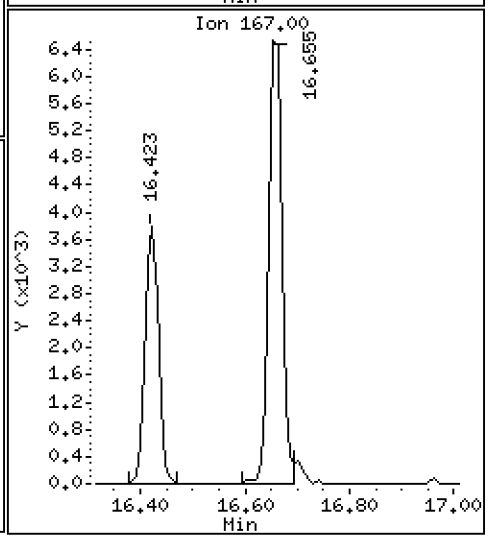












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

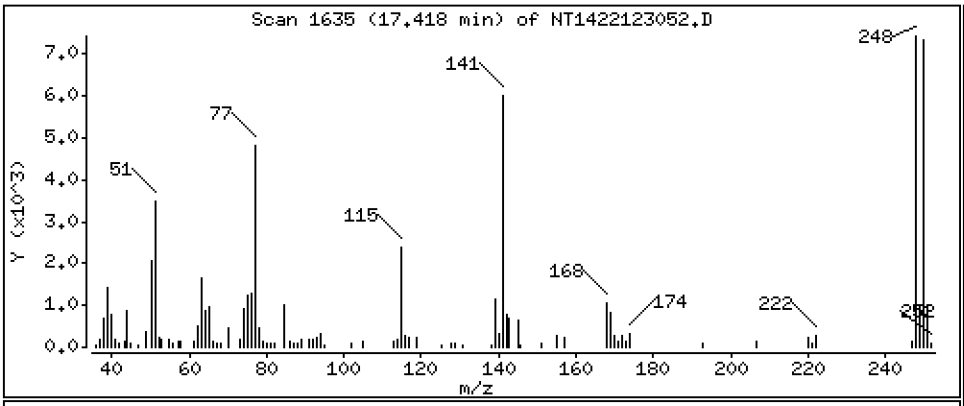
Operator: VTS

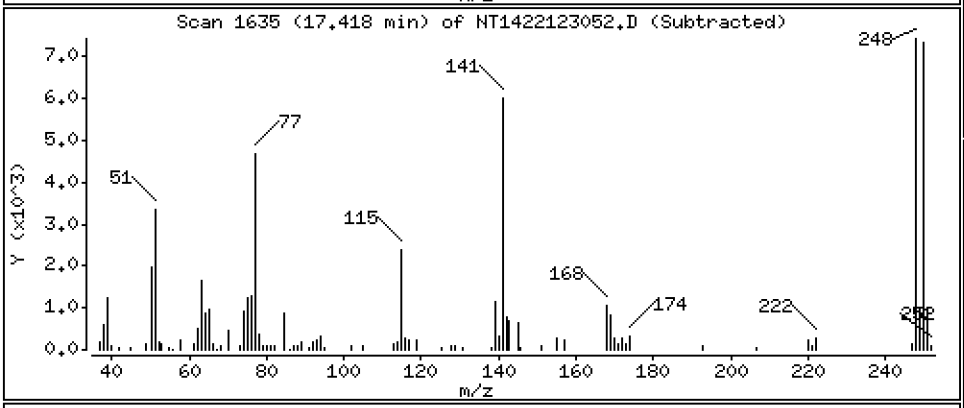
Column phase: ZB-5msi

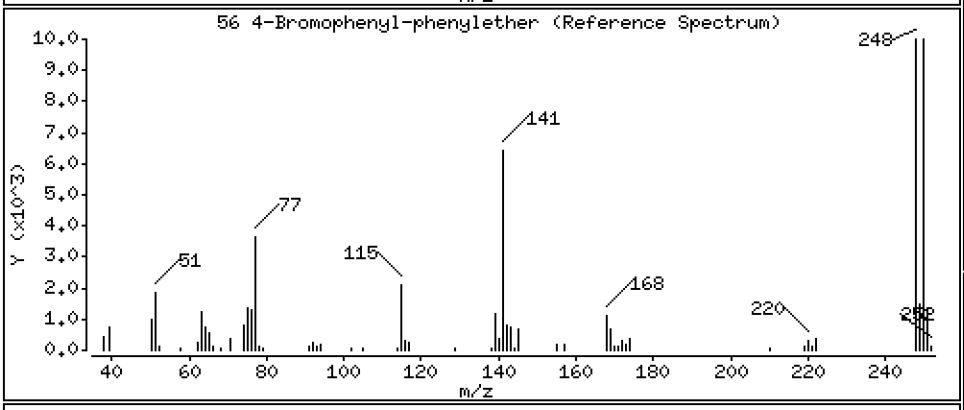
Column diameter: 0.25

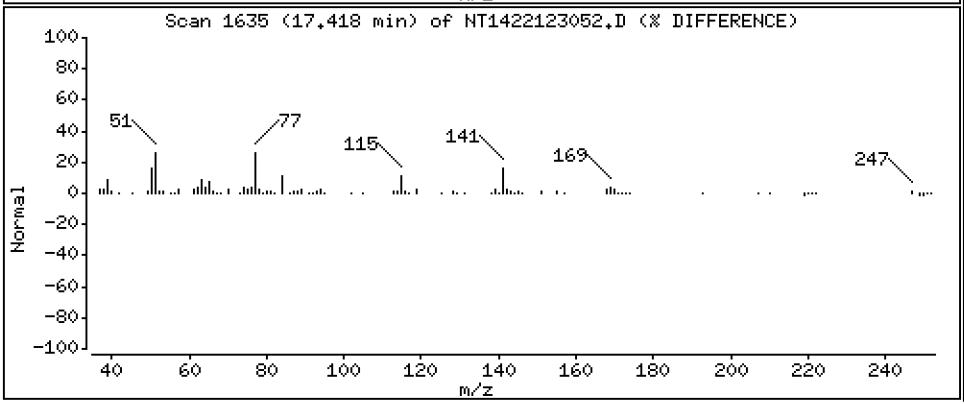
56 4-Bromophenyl-phenylether

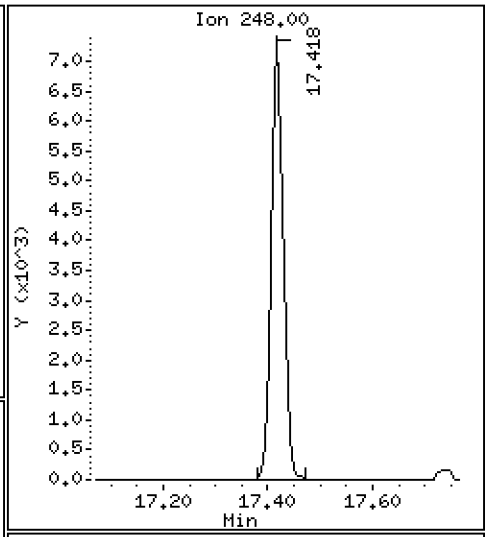
Concentration: 0.4903 ug/mL

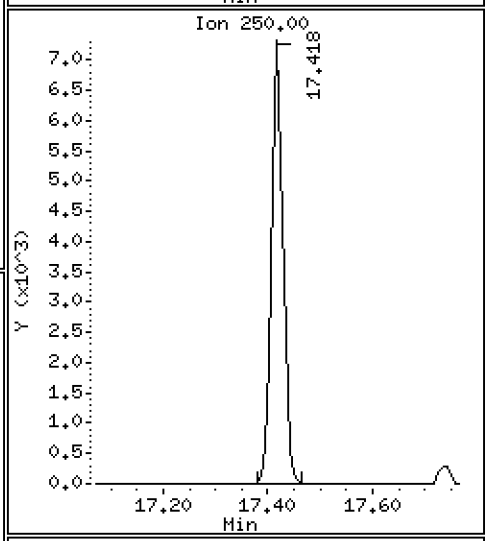


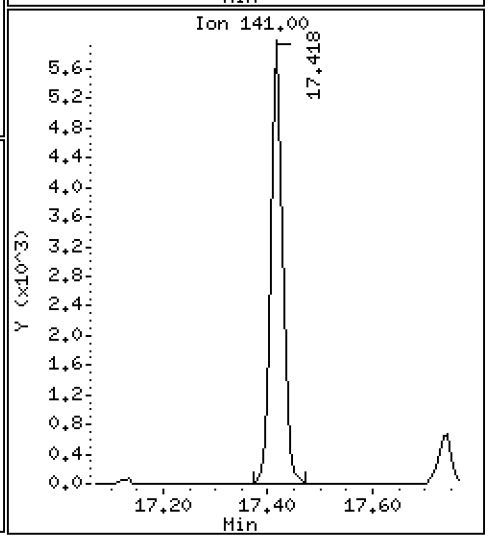












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

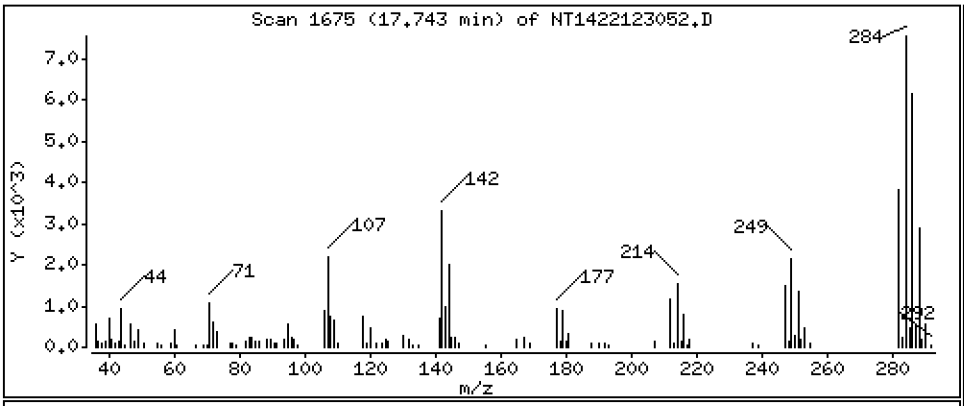
Operator: VTS

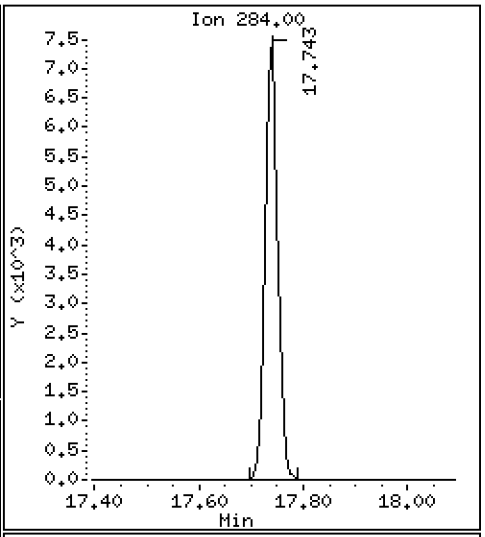
Column phase: ZB-5msi

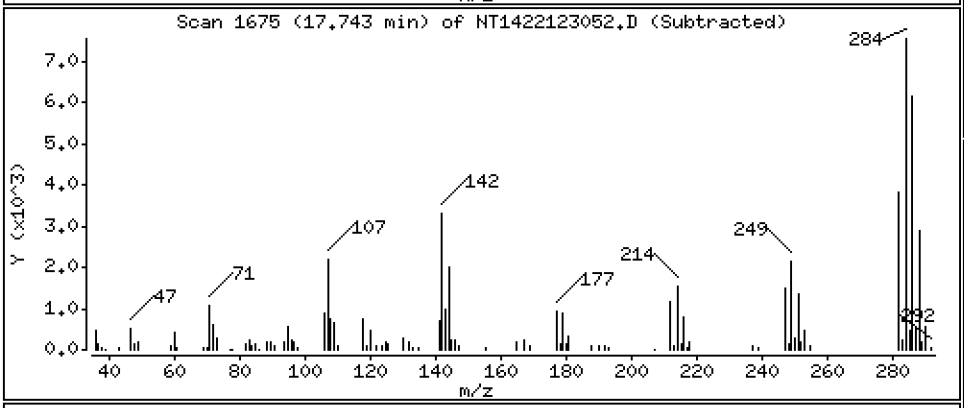
Column diameter: 0.25

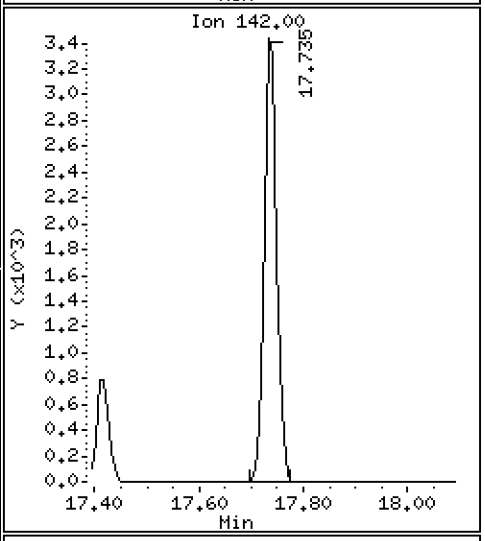
57 Hexachlorobenzene

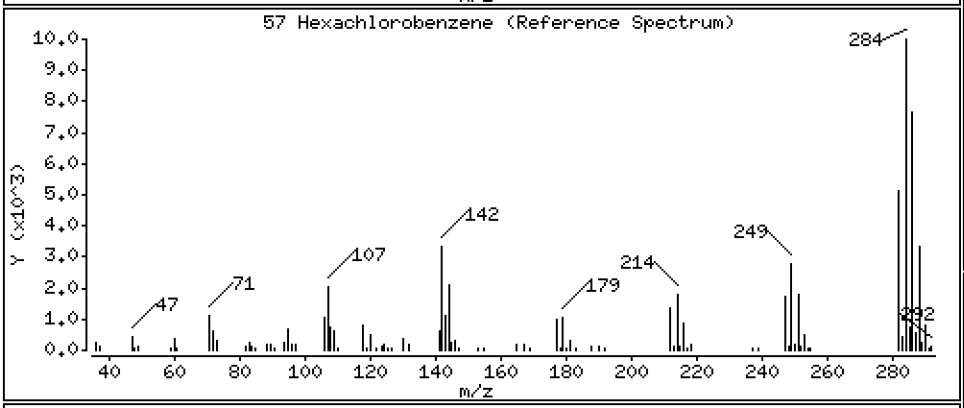
Concentration: 0.4900 ug/mL

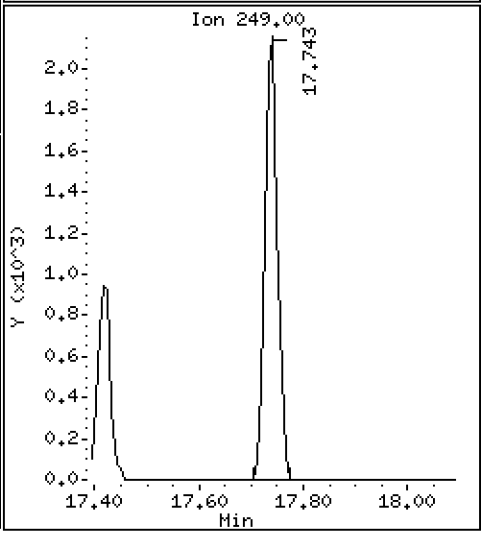


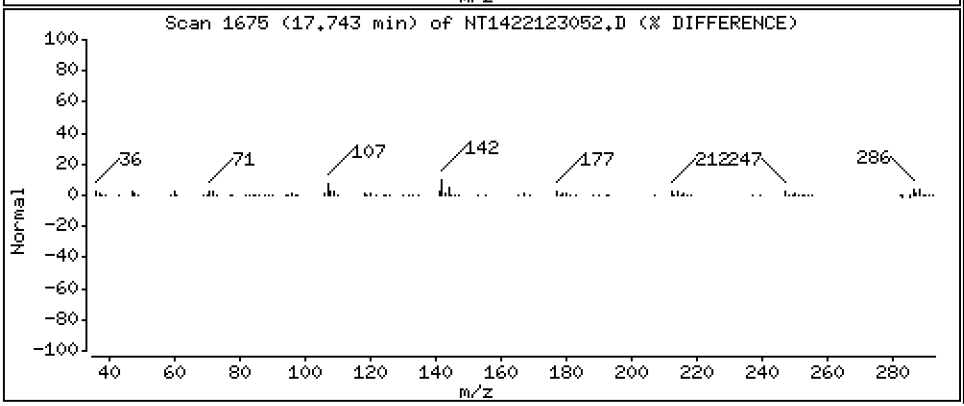












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

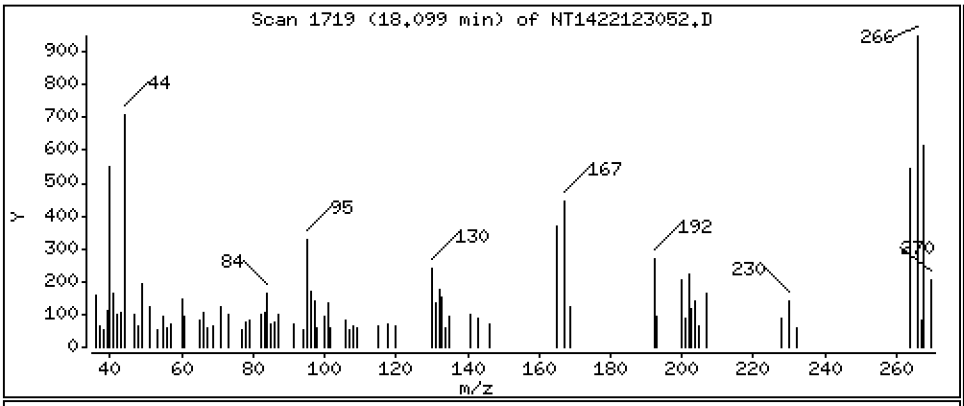
Operator: VTS

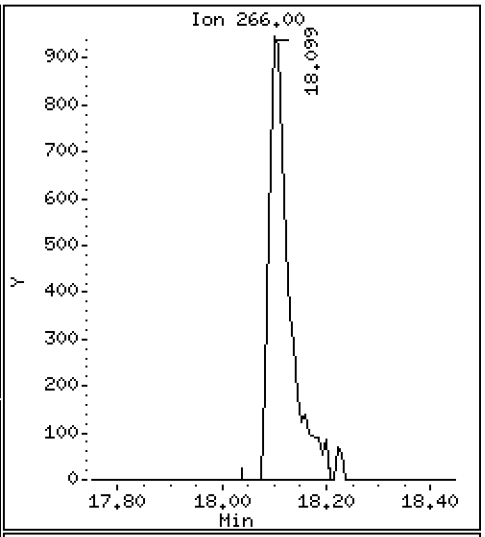
Column phase: ZB-5msi

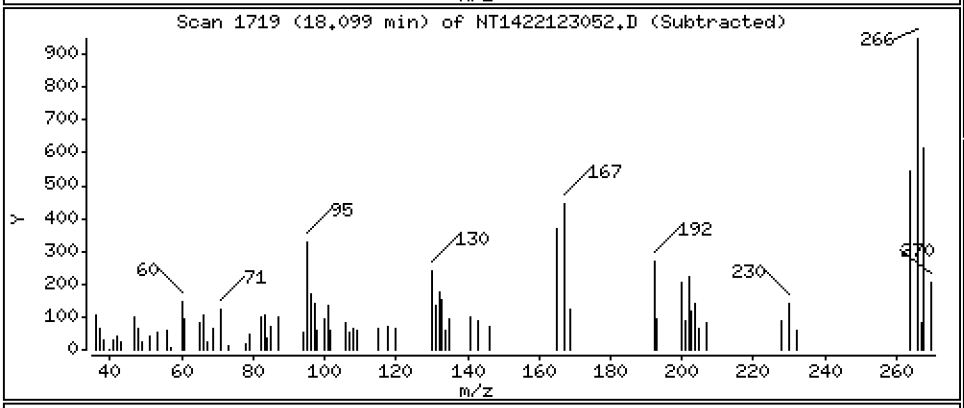
Column diameter: 0.25

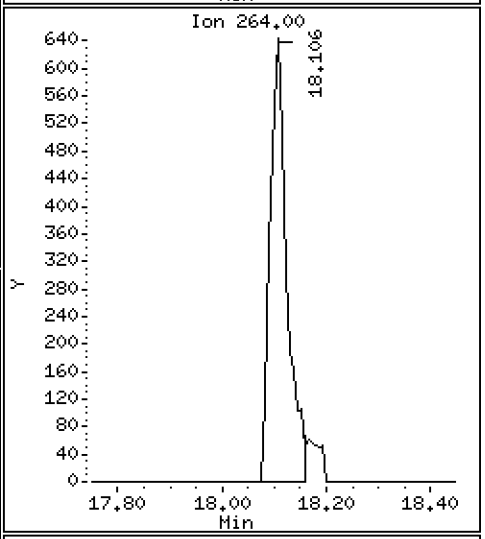
58 Pentachlorophenol

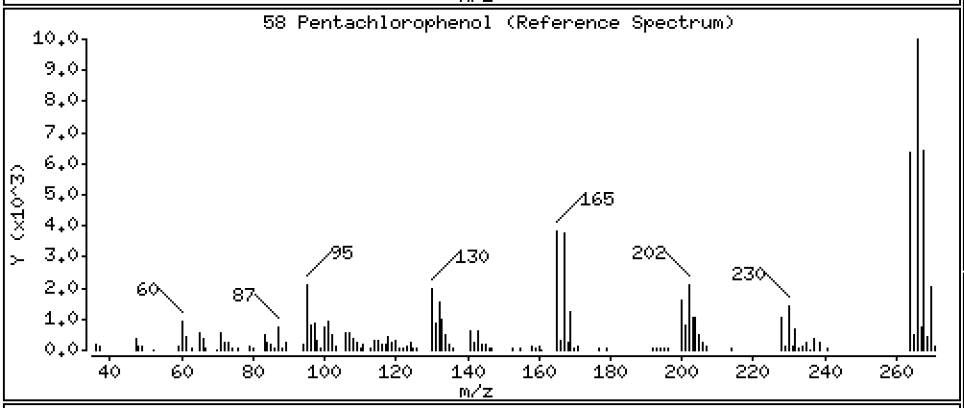
Concentration: 0.2250 ug/mL

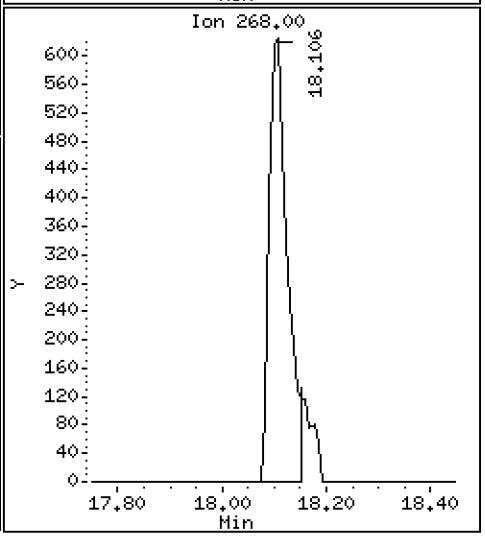


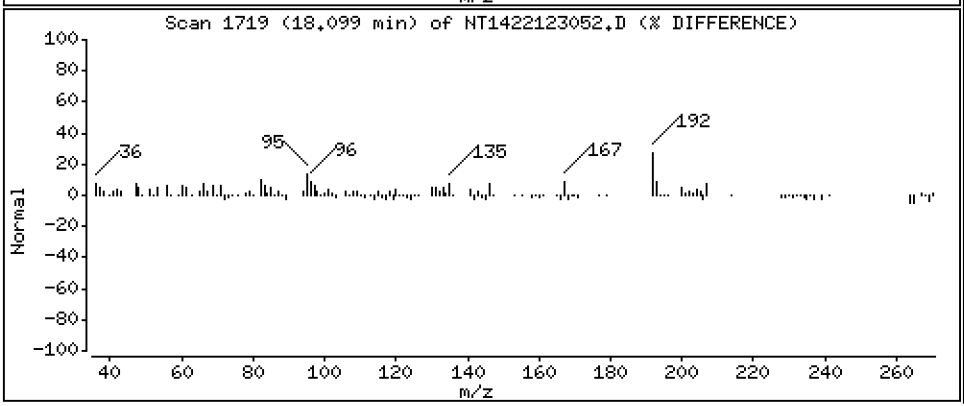












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

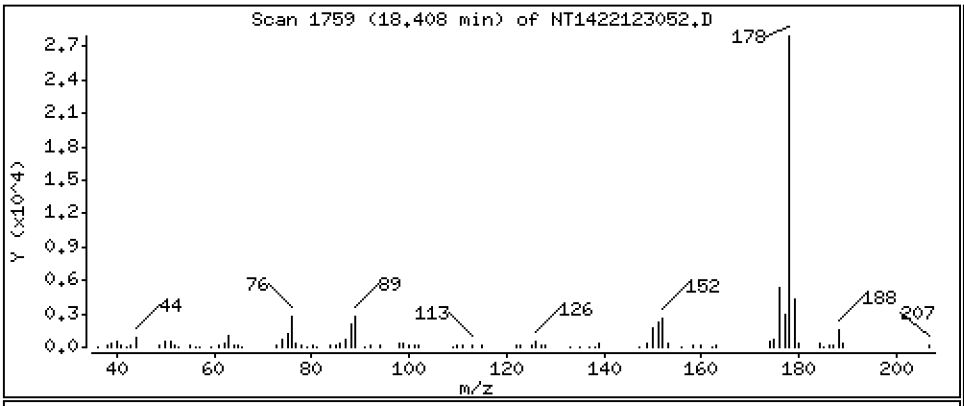
Operator: VTS

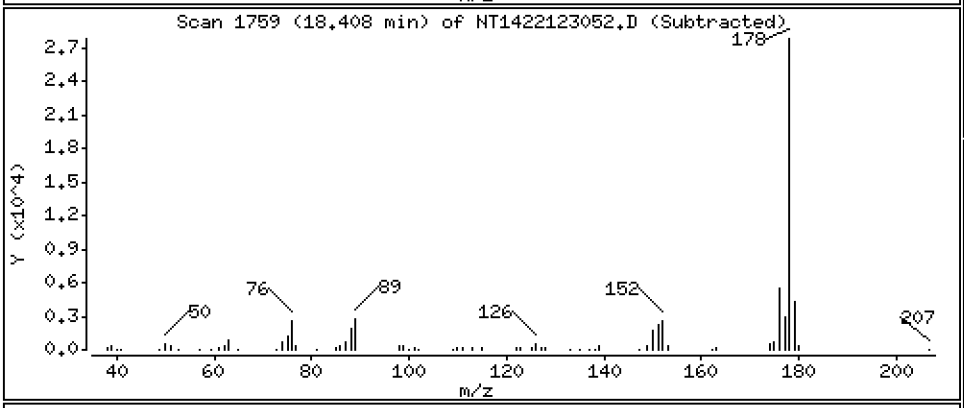
Column phase: ZB-5msi

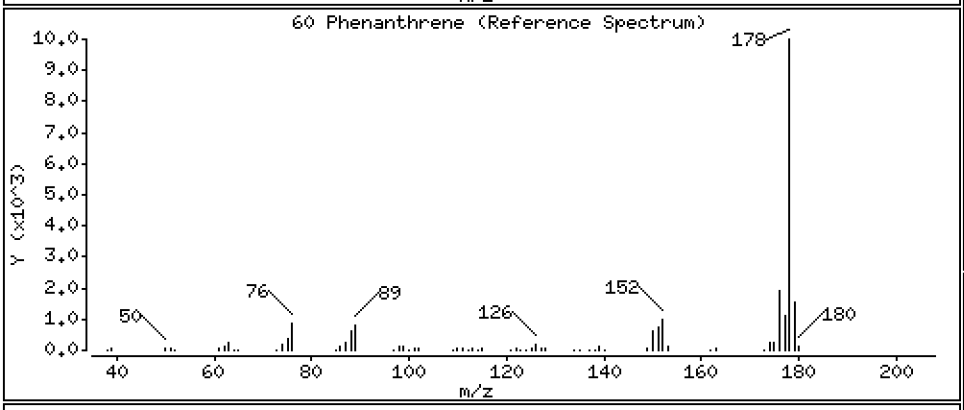
Column diameter: 0.25

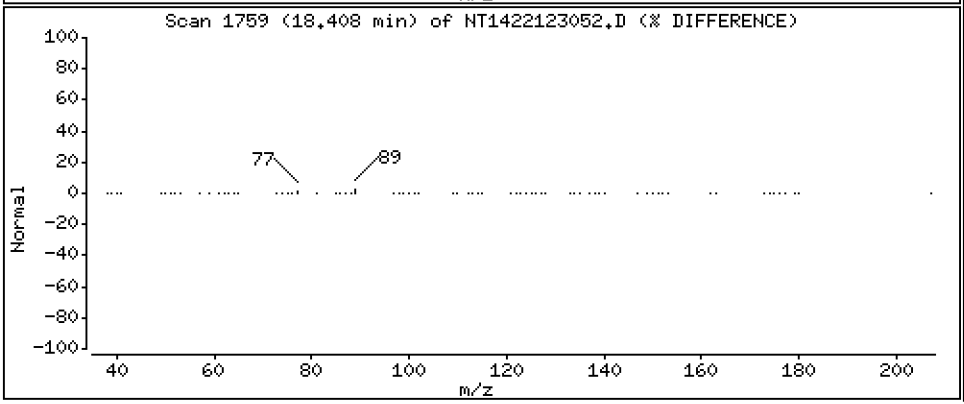
60 Phenanthrene

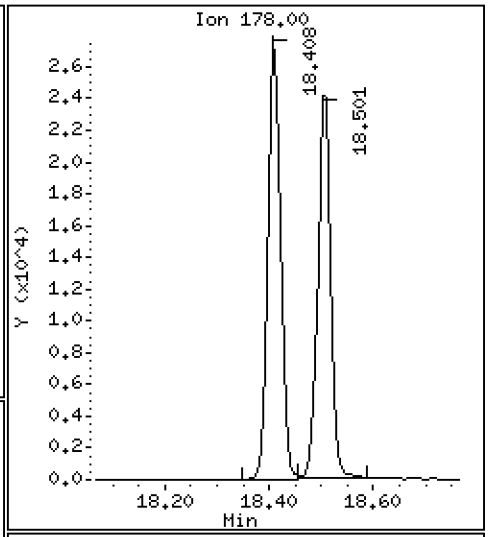
Concentration: 0.4886 ug/mL

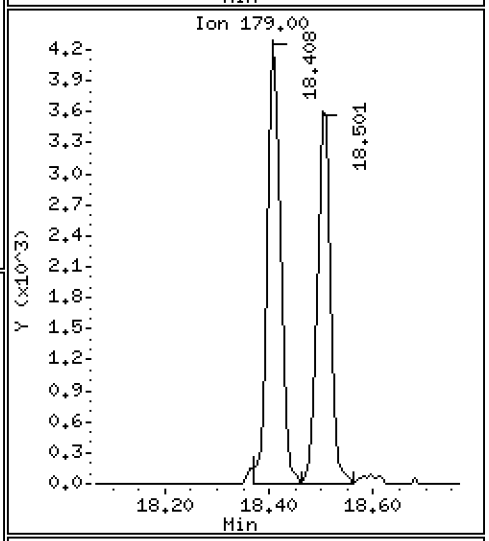


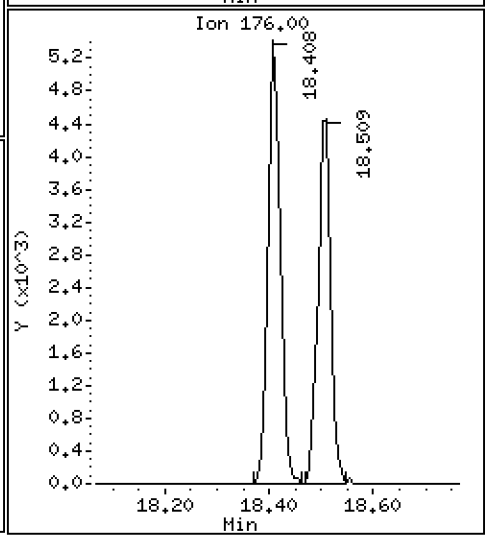












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

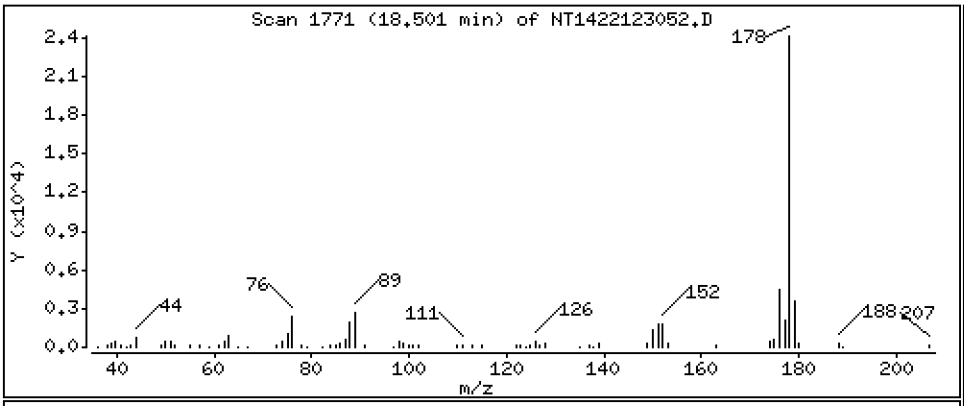
Operator: VTS

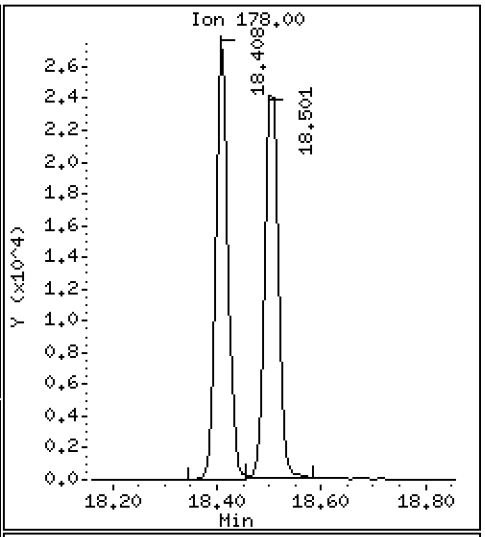
Column phase: ZB-5msi

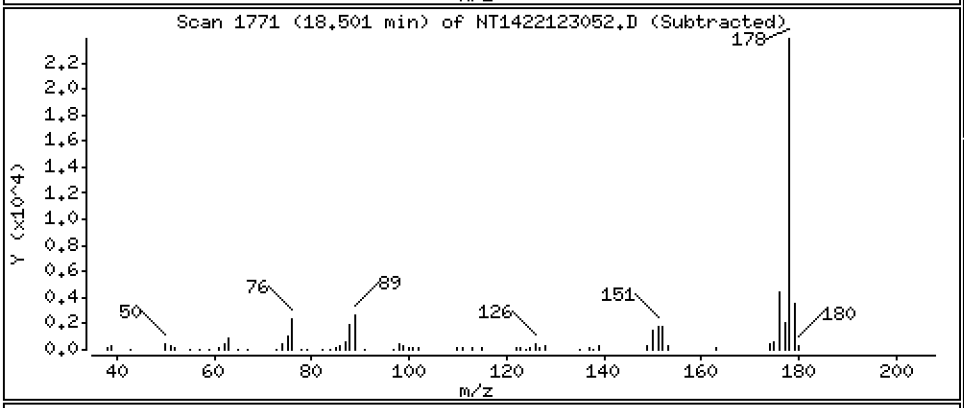
Column diameter: 0.25

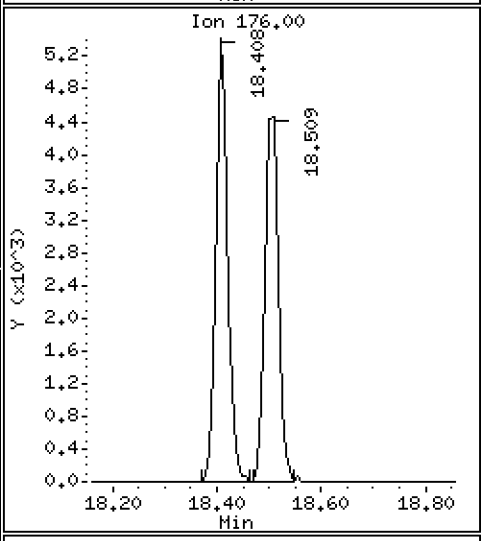
61 Anthracene

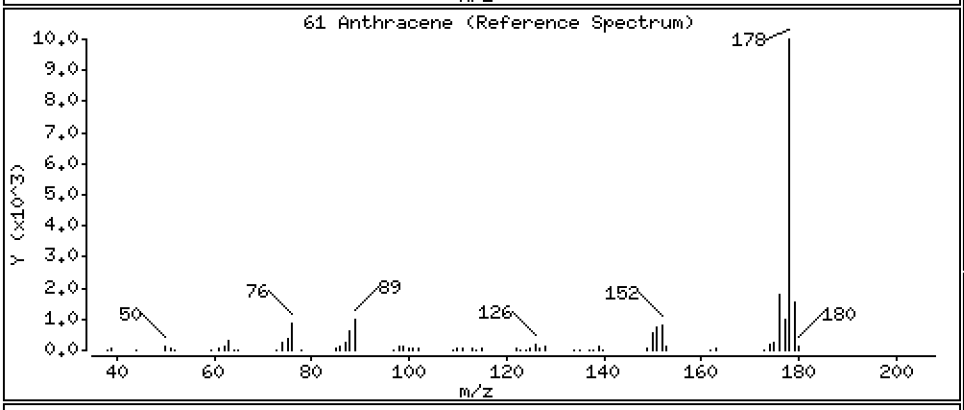
Concentration: 0.4683 ug/mL

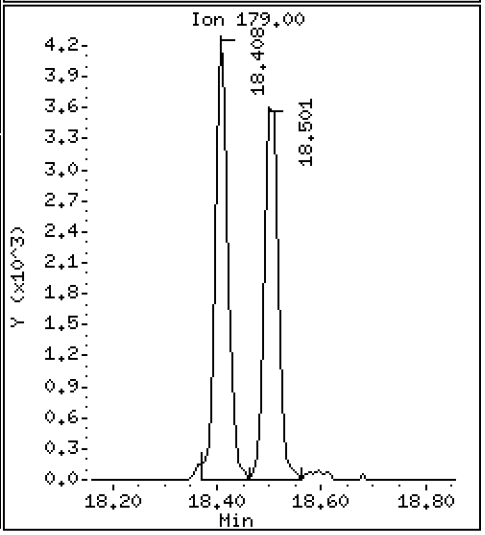


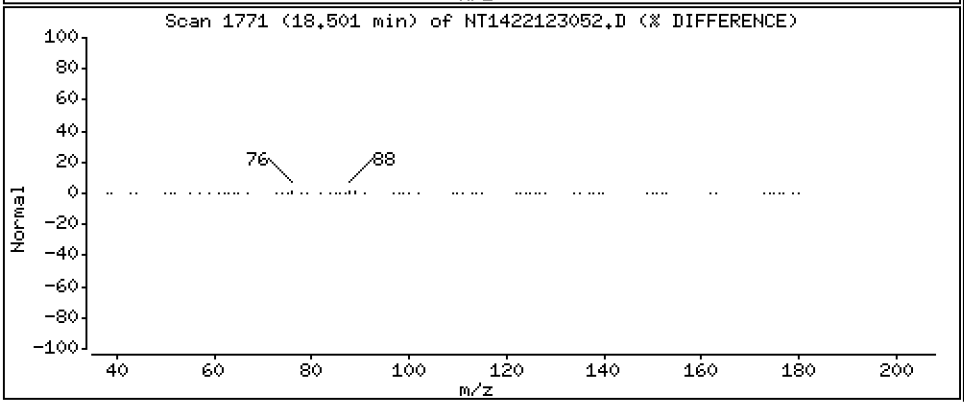












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

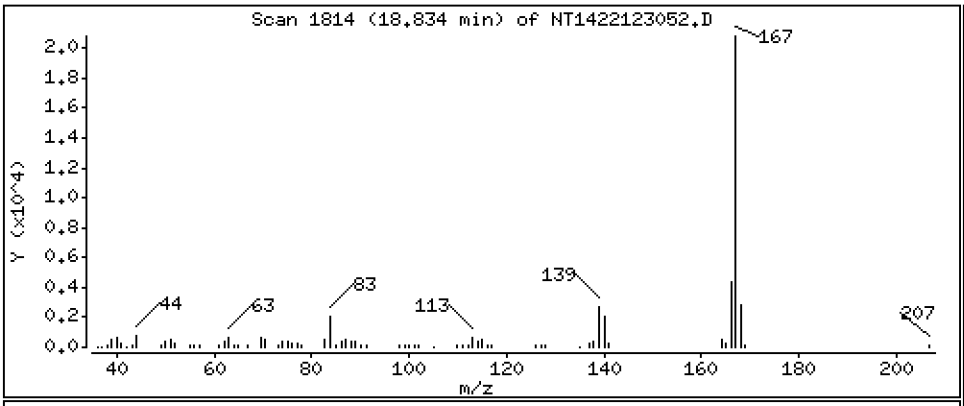
Operator: VTS

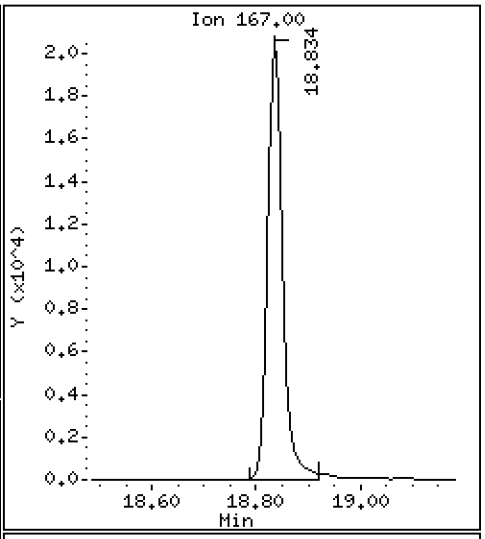
Column phase: ZB-5msi

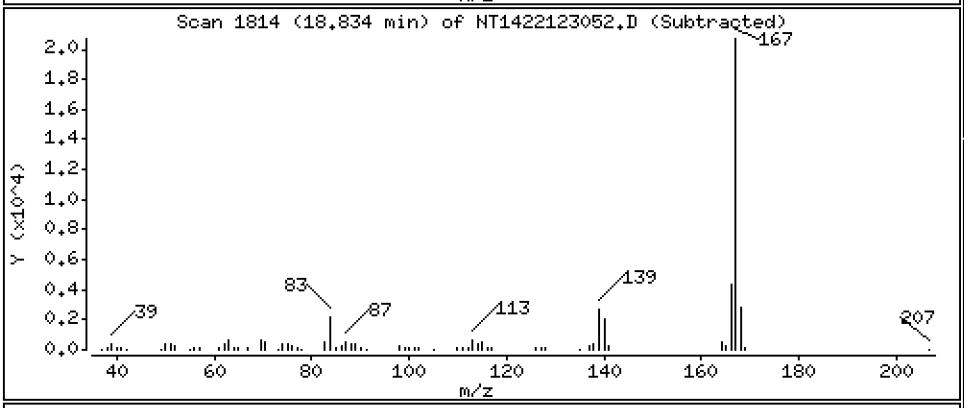
Column diameter: 0.25

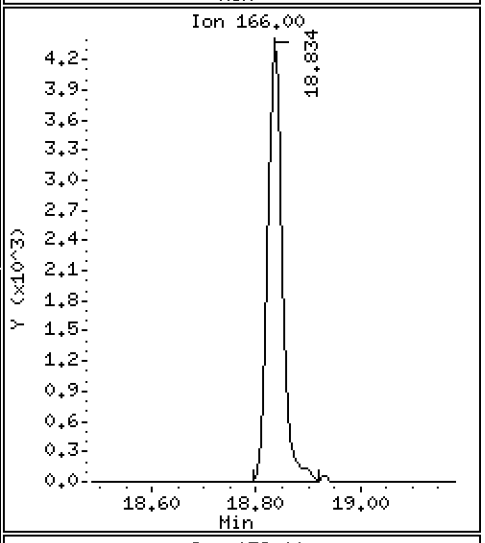
62 Carbazole

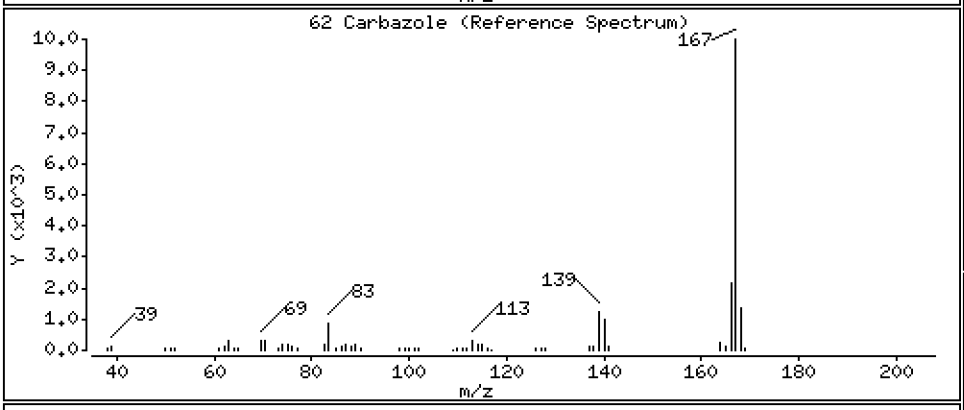
Concentration: 0.4608 ug/mL

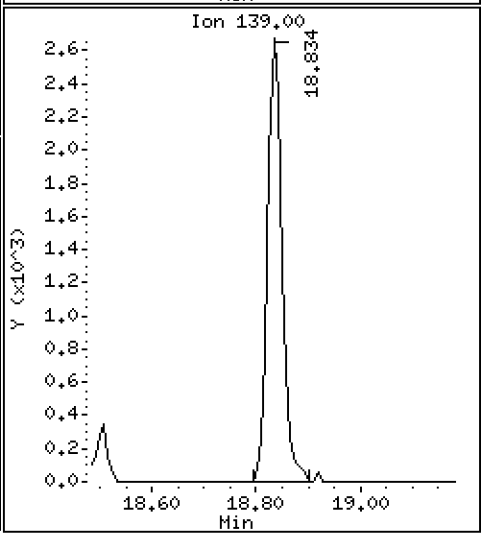


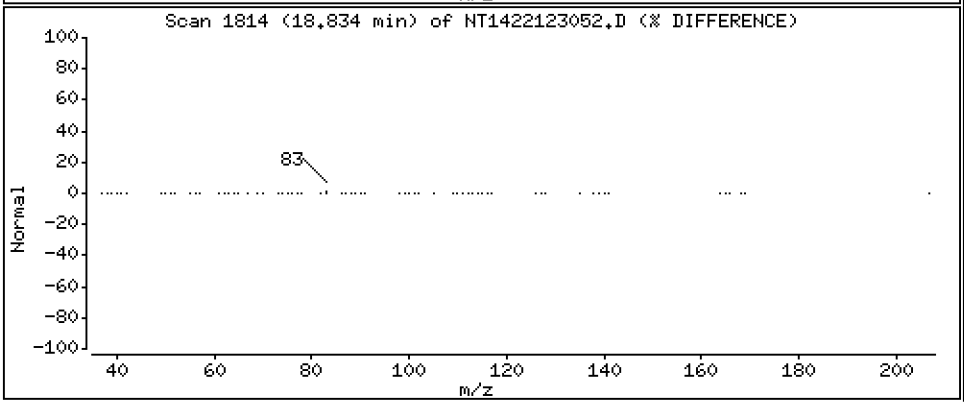












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

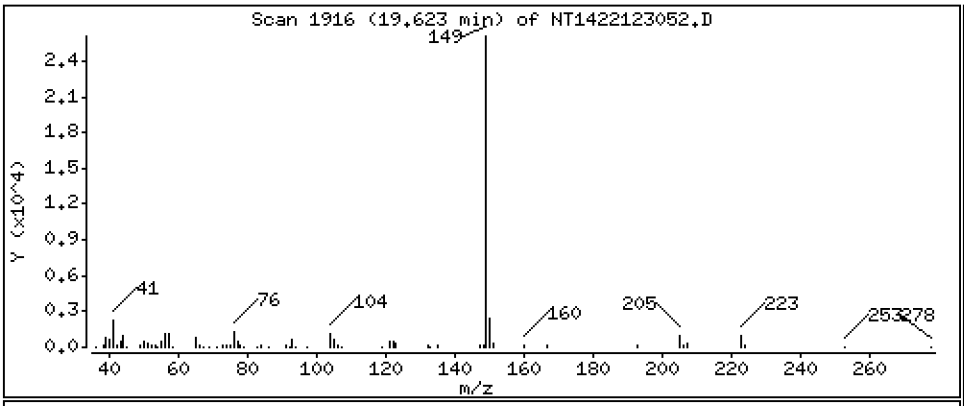
Operator: VTS

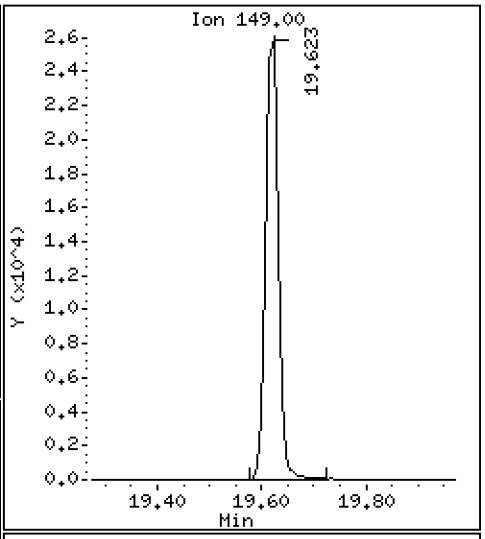
Column phase: ZB-5msi

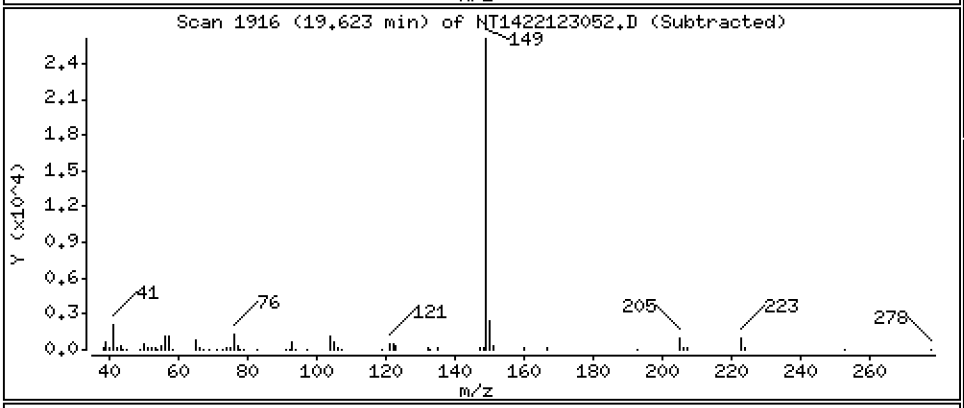
Column diameter: 0.25

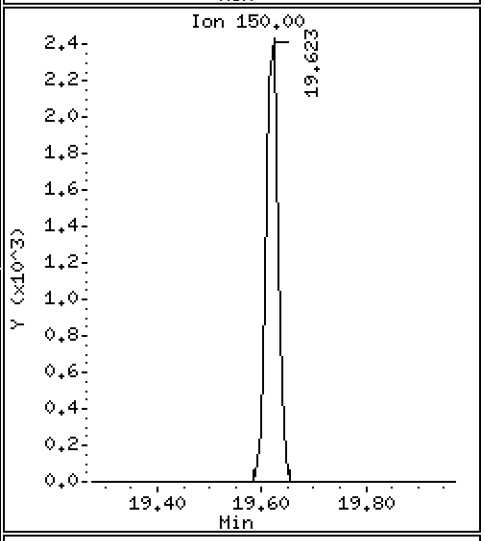
63 Di-n-butylphthalate

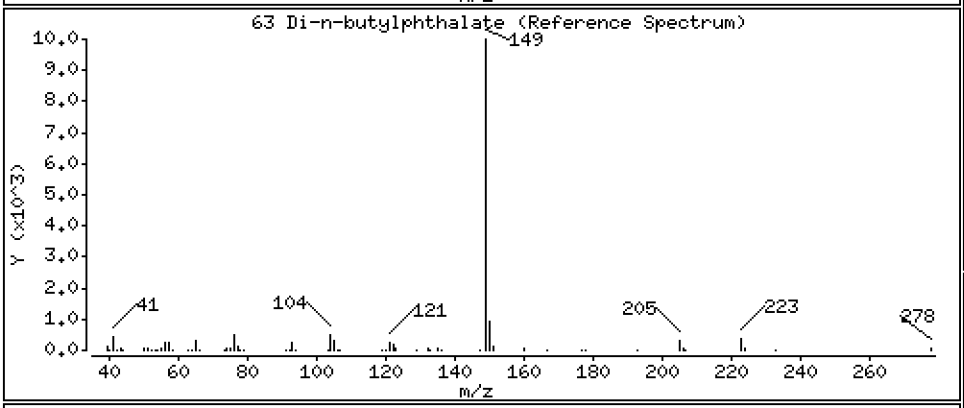
Concentration: 0.4286 ug/mL

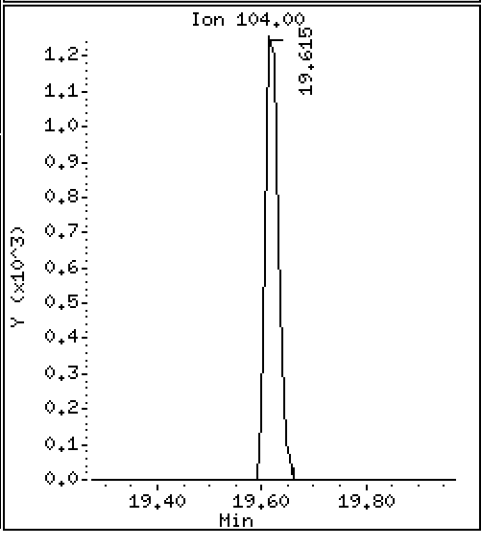


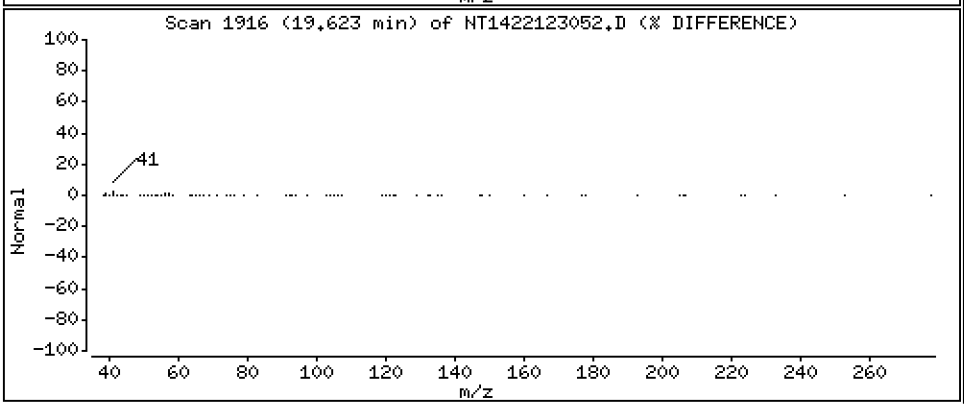












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

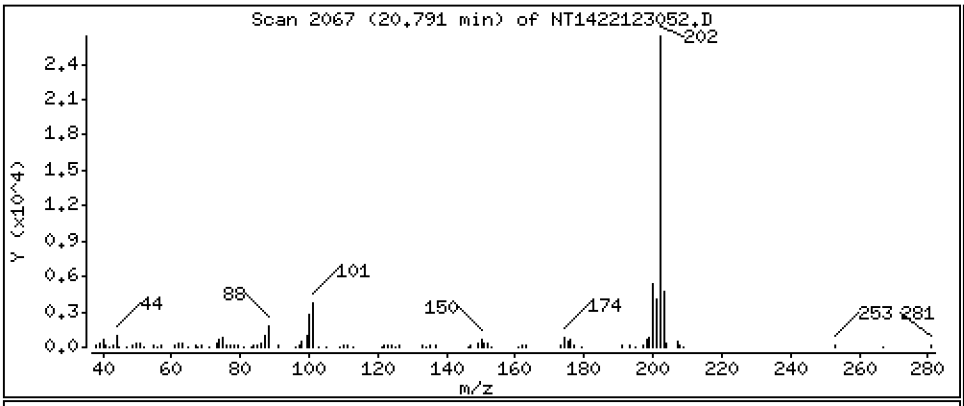
Operator: VTS

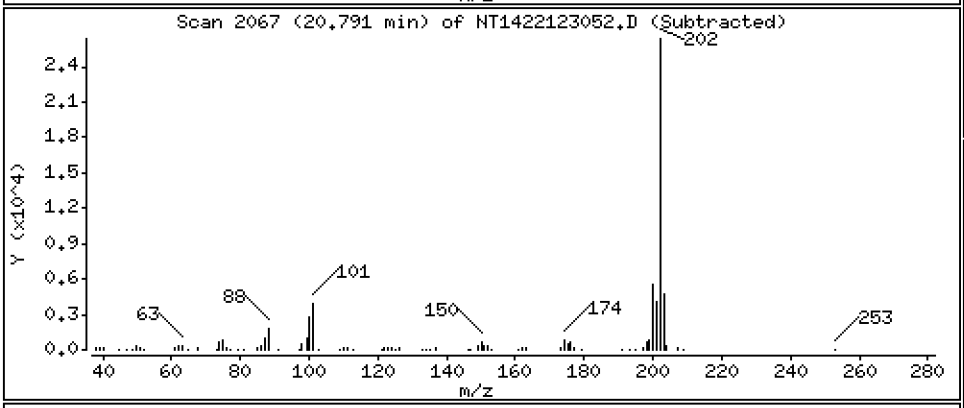
Column phase: ZB-5msi

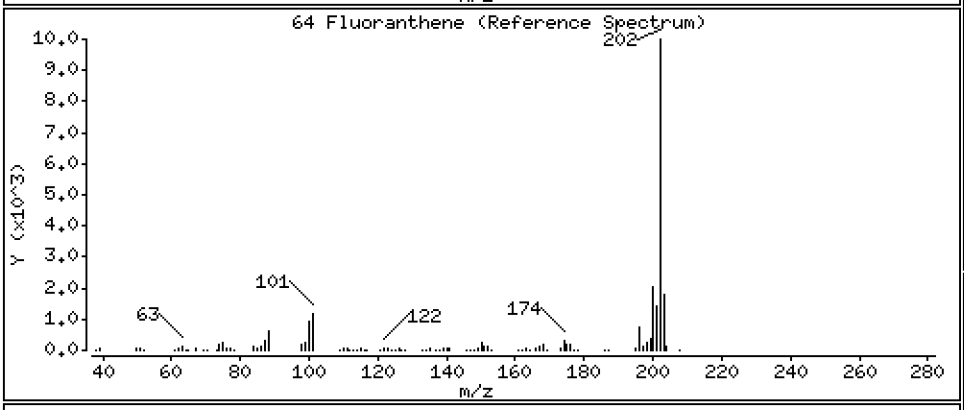
Column diameter: 0.25

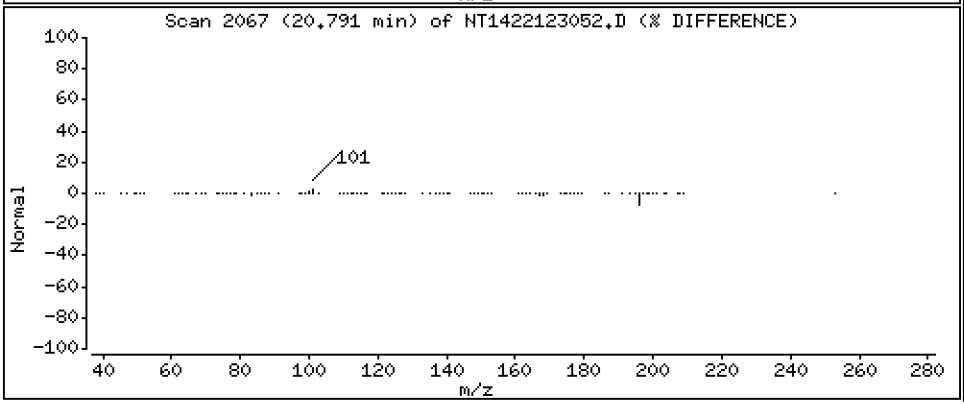
64 Fluoranthene

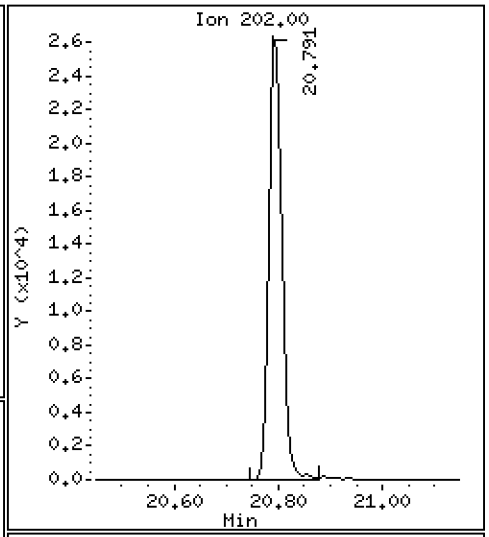
Concentration: 0.4643 ug/mL

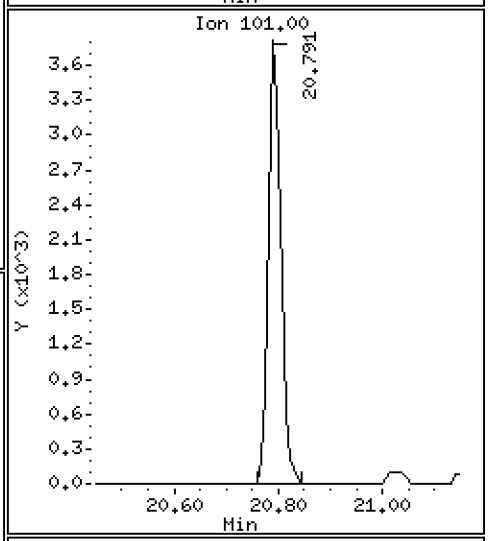


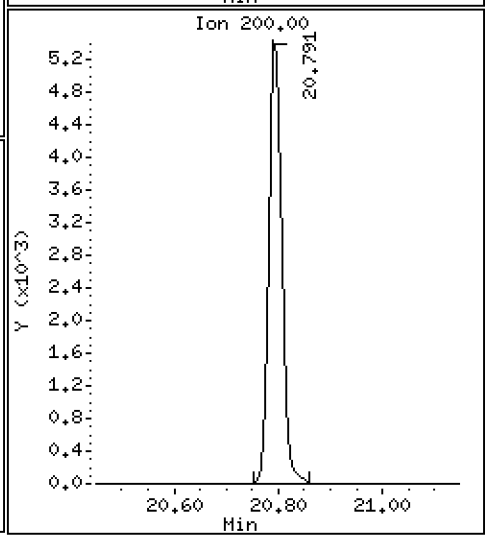












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

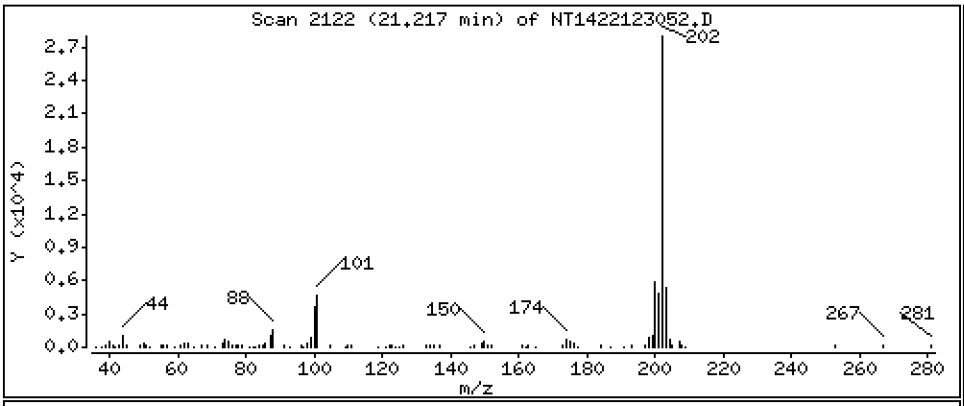
Operator: VTS

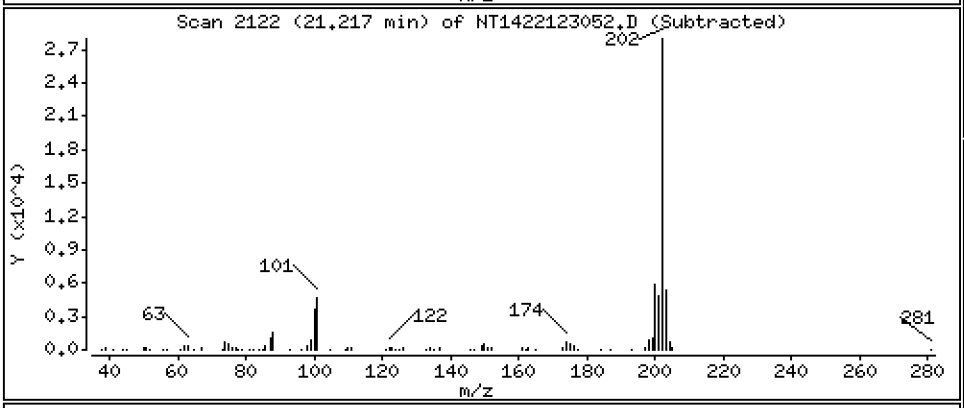
Column phase: ZB-5msi

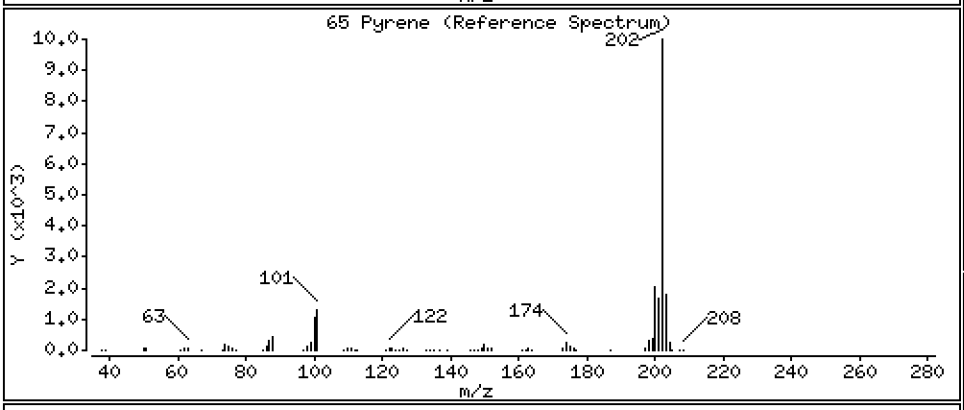
Column diameter: 0.25

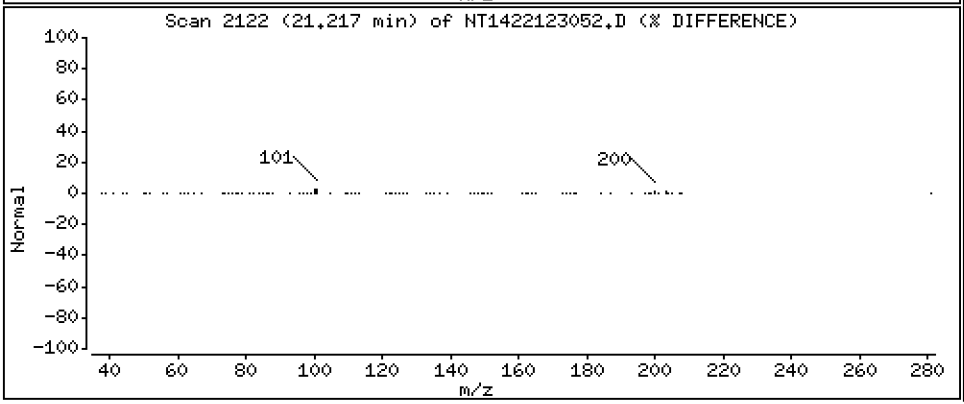
65 Pyrene

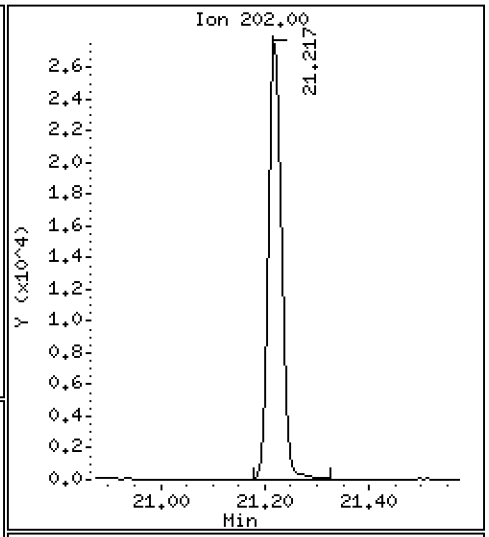
Concentration: 0.4679 ug/mL

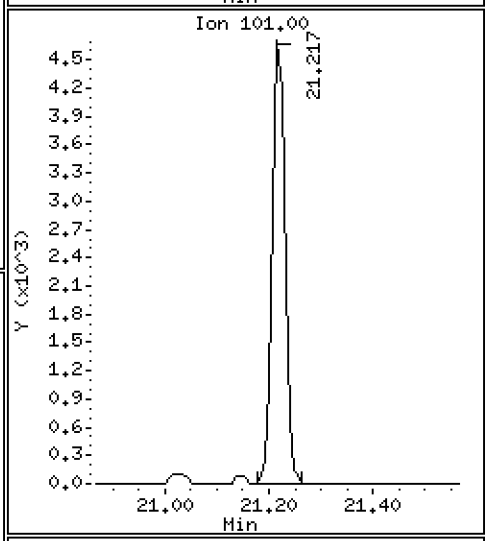


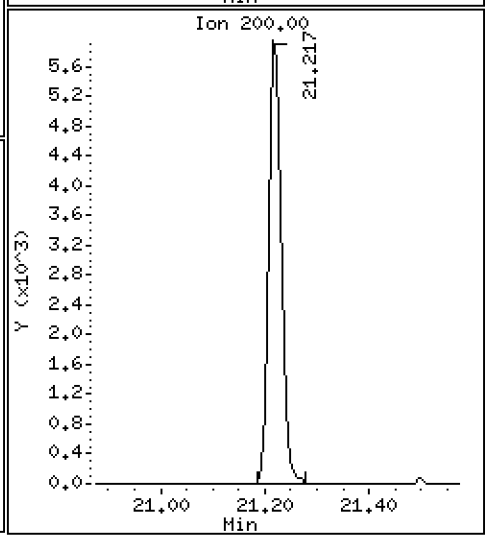












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

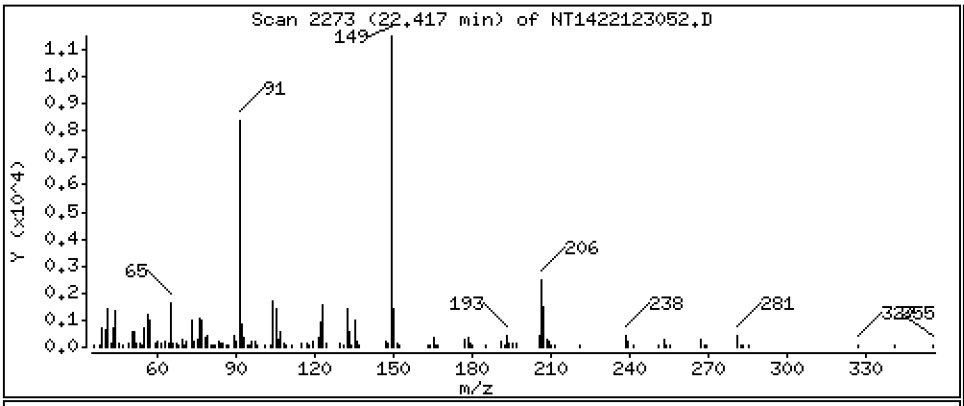
Operator: VTS

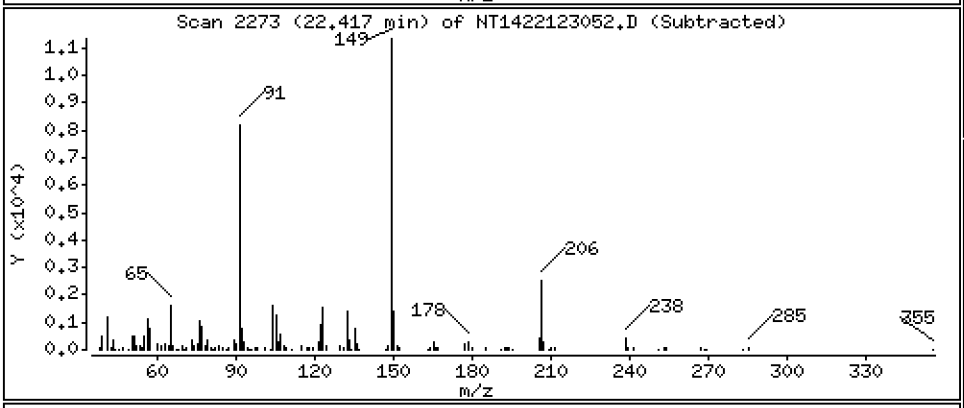
Column phase: ZB-5msi

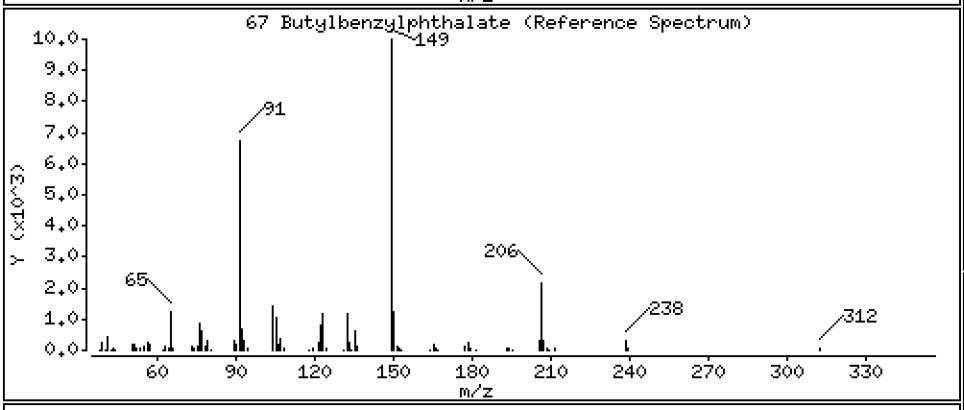
Column diameter: 0.25

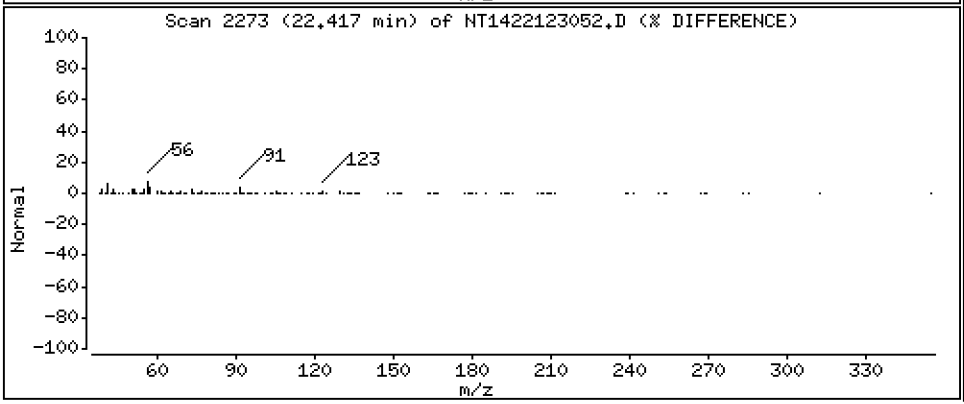
67 Butylbenzylphthalate

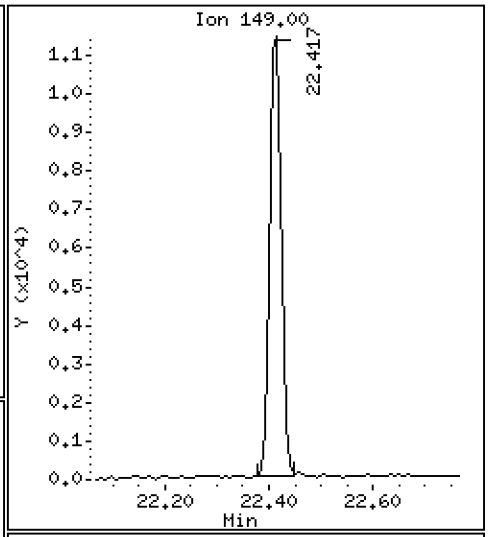
Concentration: 0.4436 ug/mL

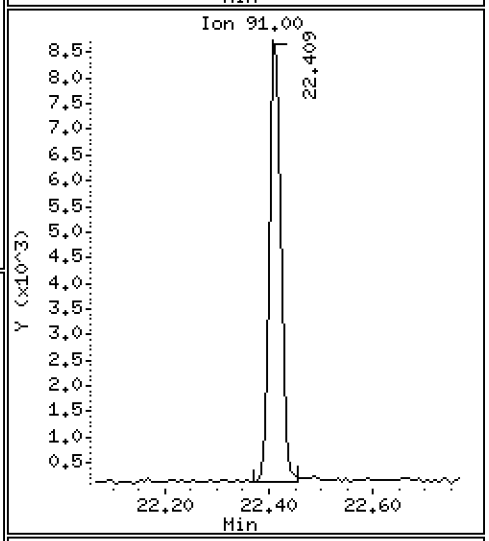


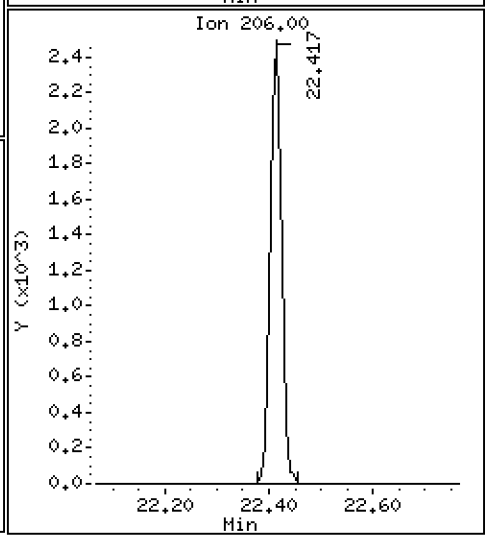












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

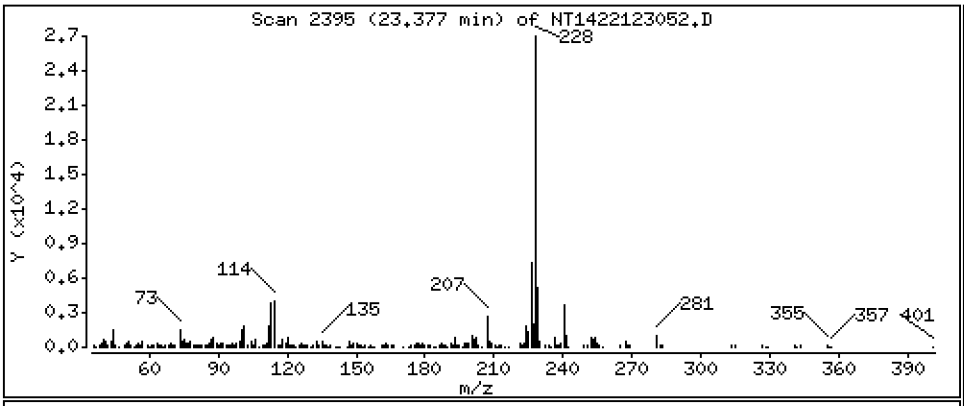
Operator: VTS

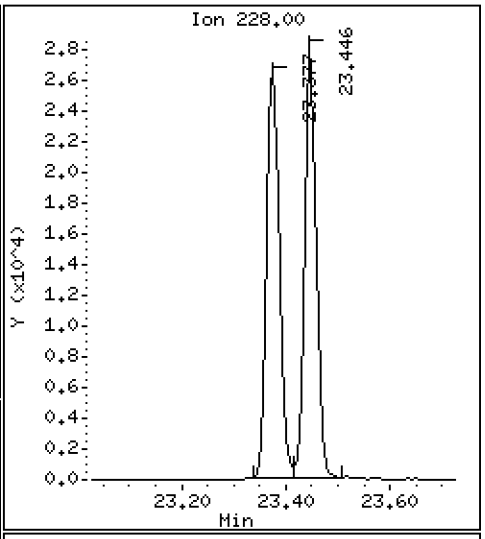
Column phase: ZB-5msi

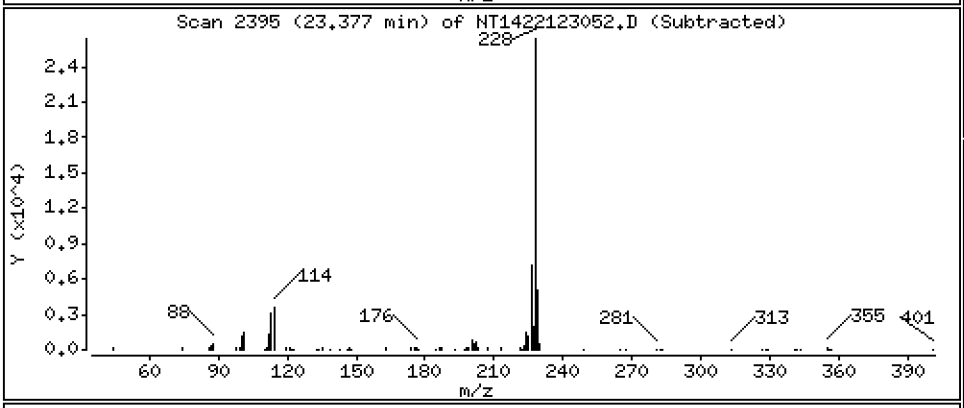
Column diameter: 0.25

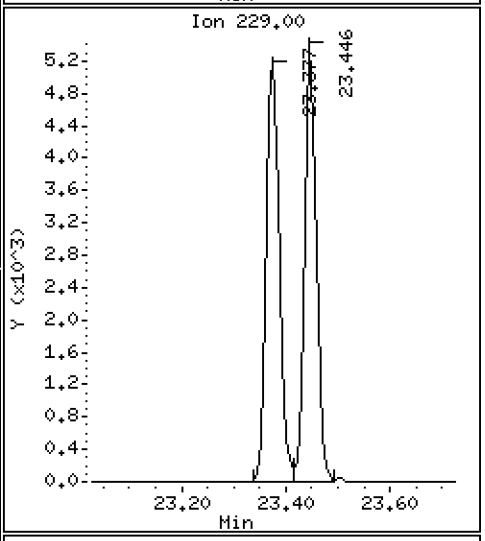
68 Benzo(a)anthracene

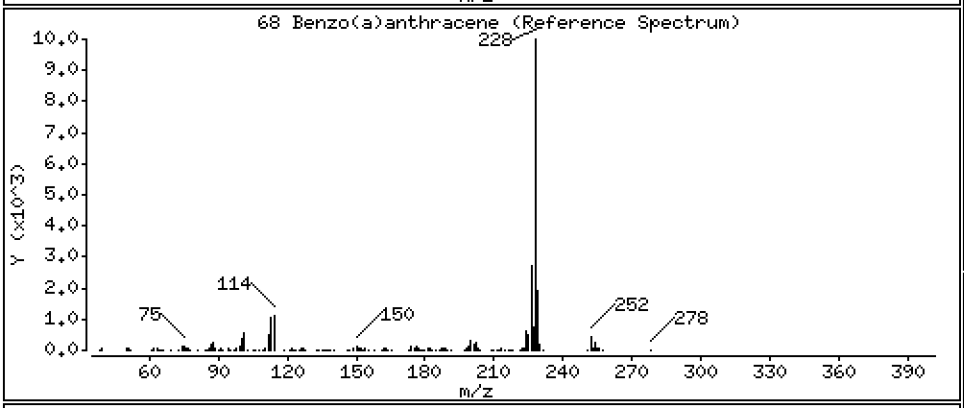
Concentration: 0.4849 ug/mL

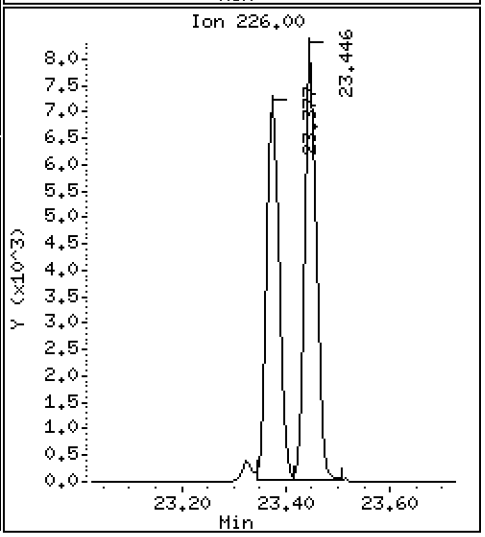


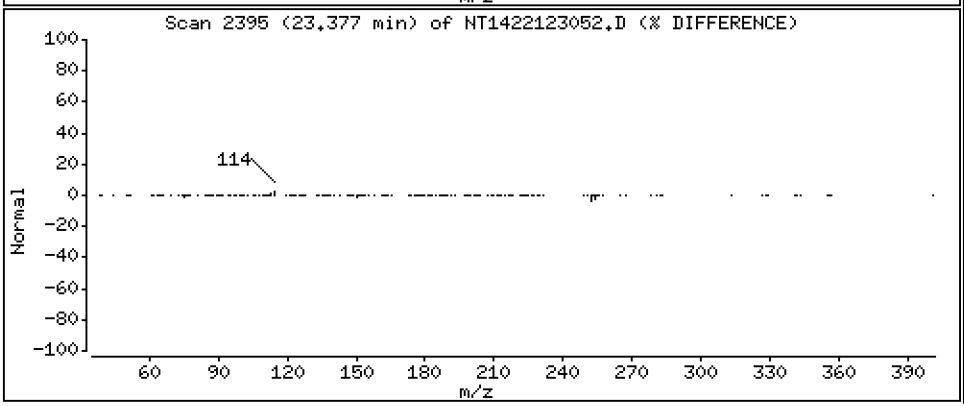












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

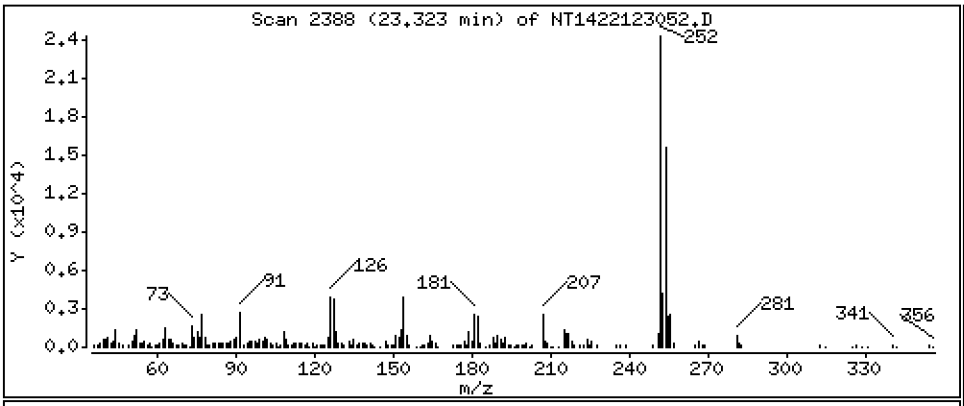
Operator: VTS

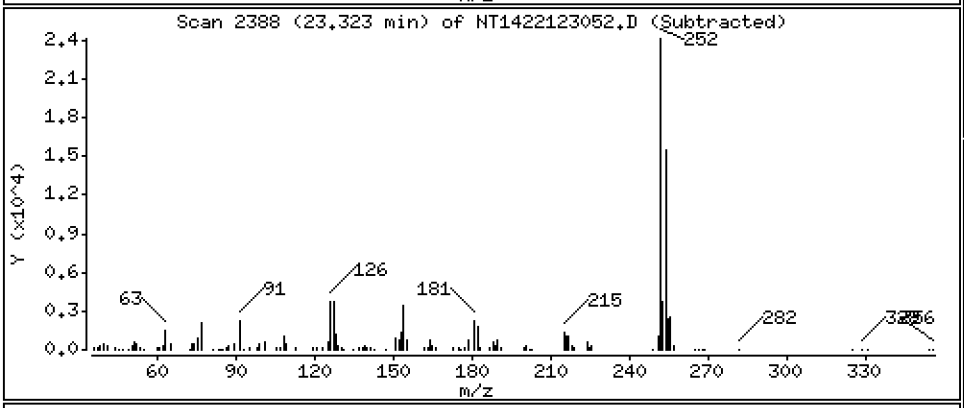
Column phase: ZB-5msi

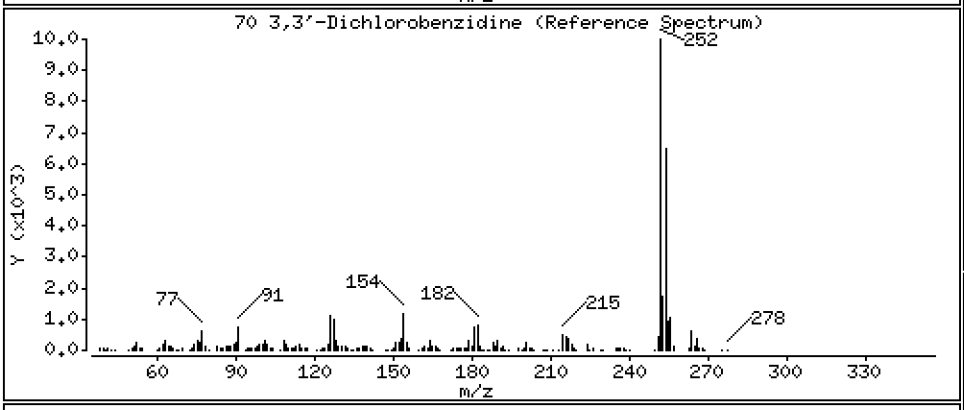
Column diameter: 0.25

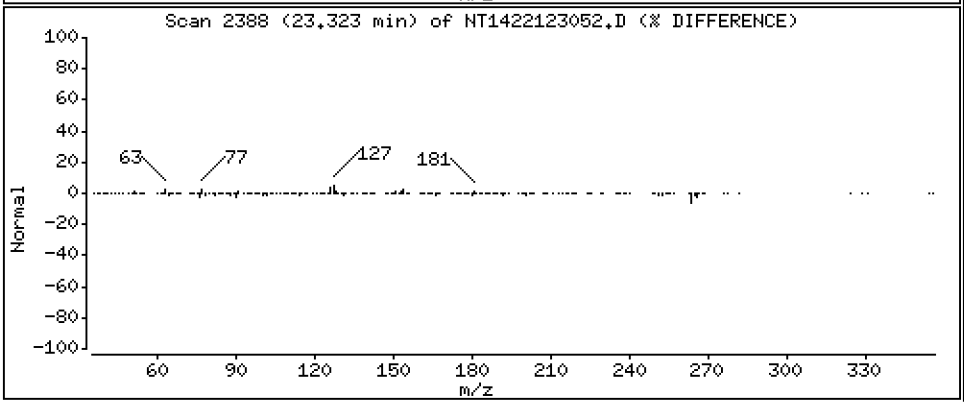
70 3,3'-Dichlorobenzidine

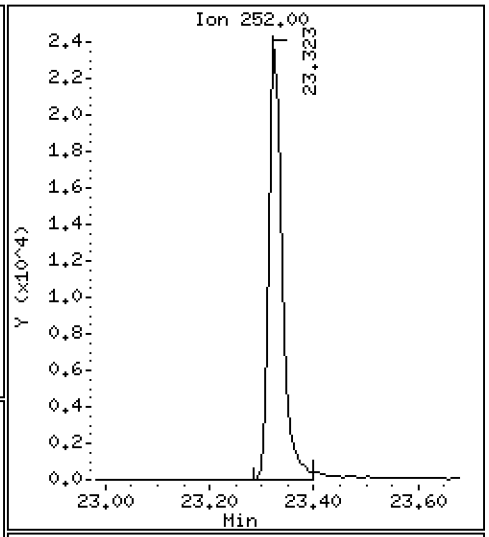
Concentration: 1.479 ug/mL

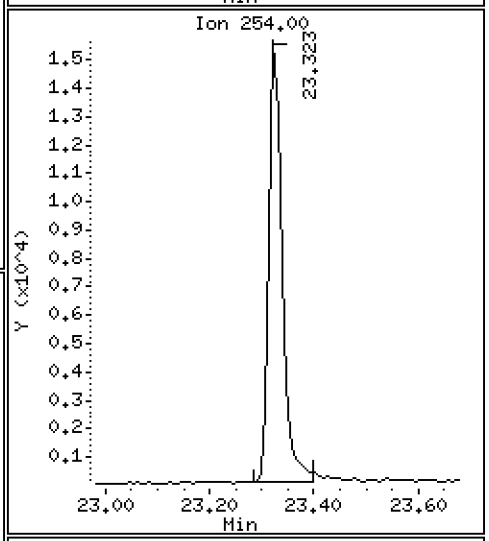


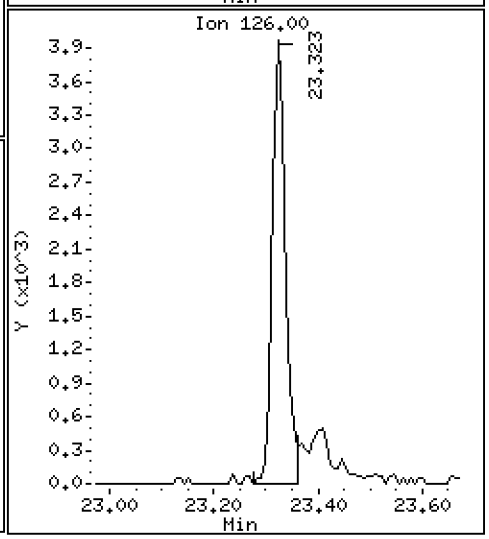












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

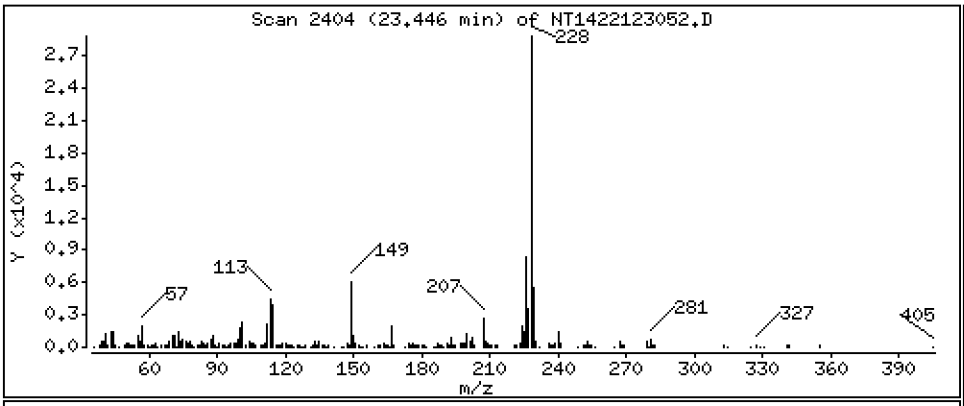
Operator: VTS

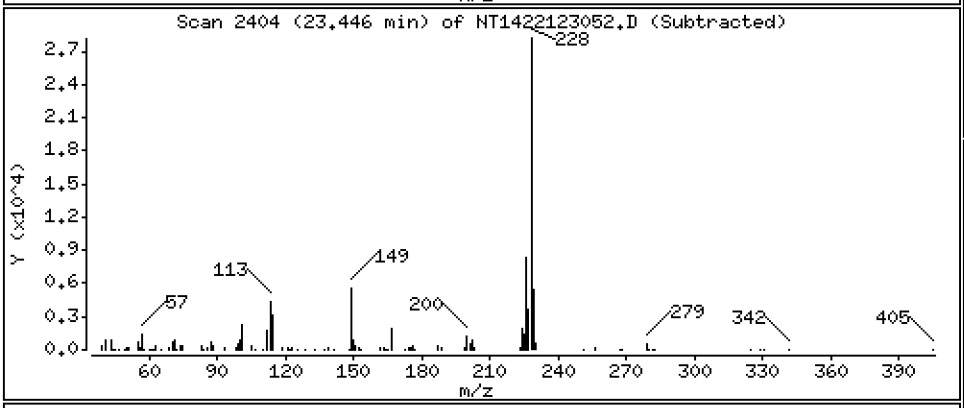
Column phase: ZB-5msi

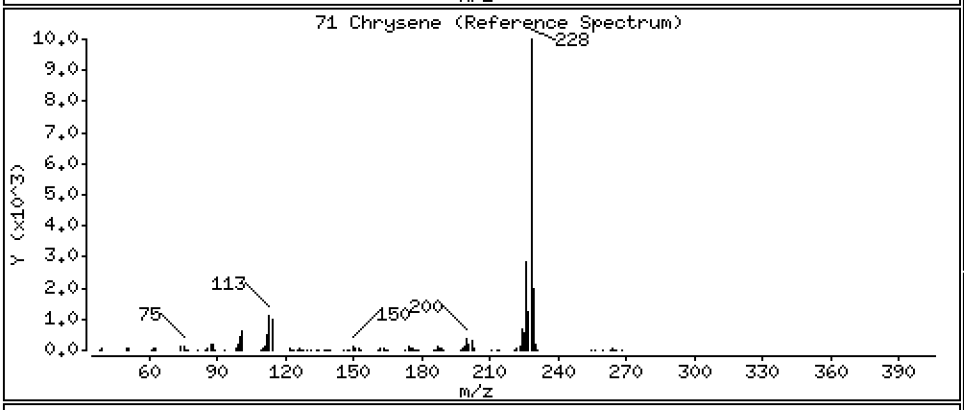
Column diameter: 0.25

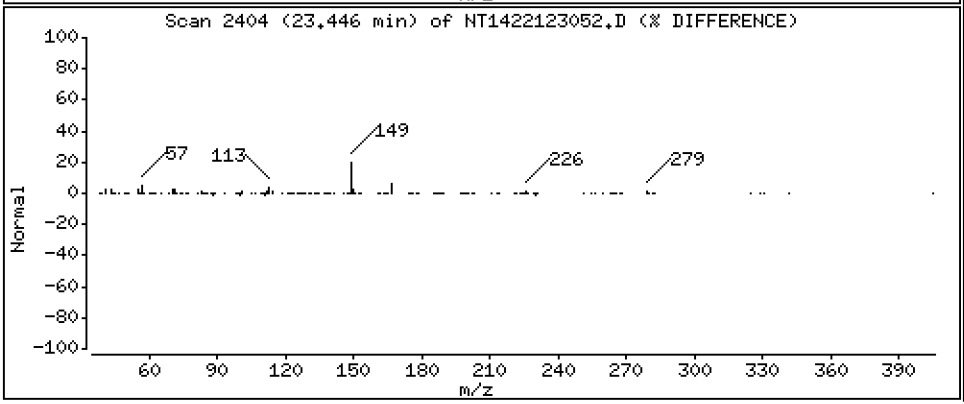
71 Chrysene

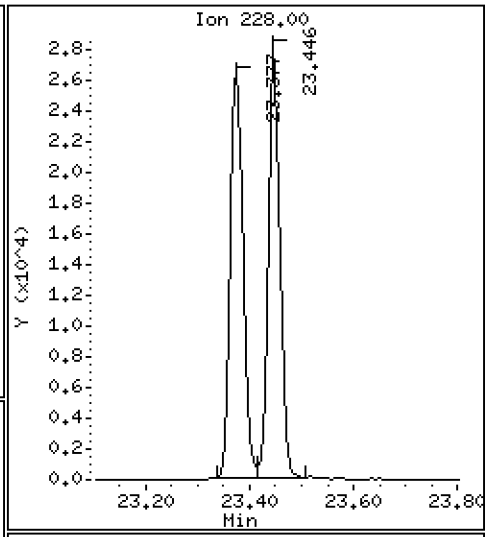
Concentration: 0.4899 ug/mL

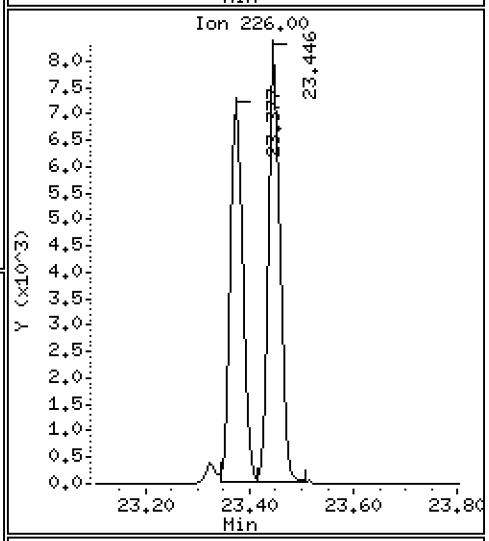


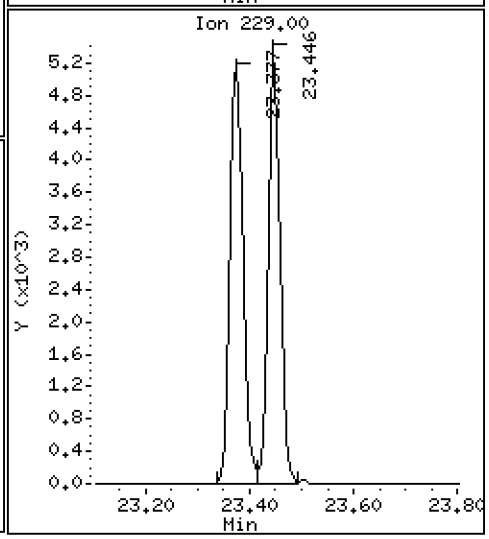












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

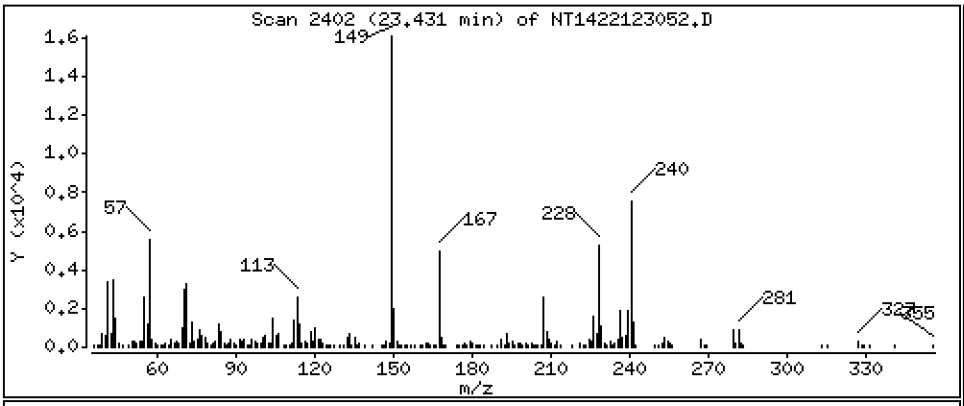
Operator: VTS

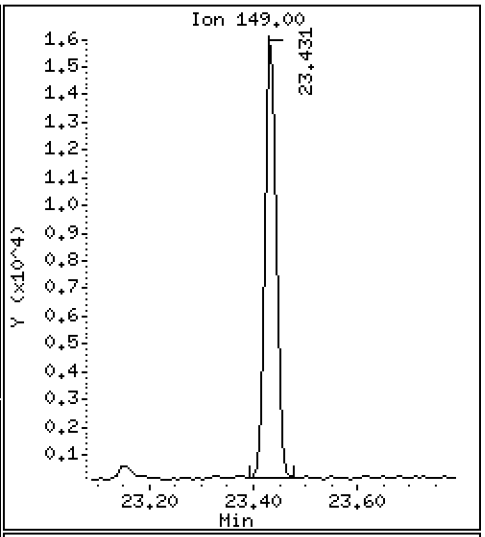
Column phase: ZB-5msi

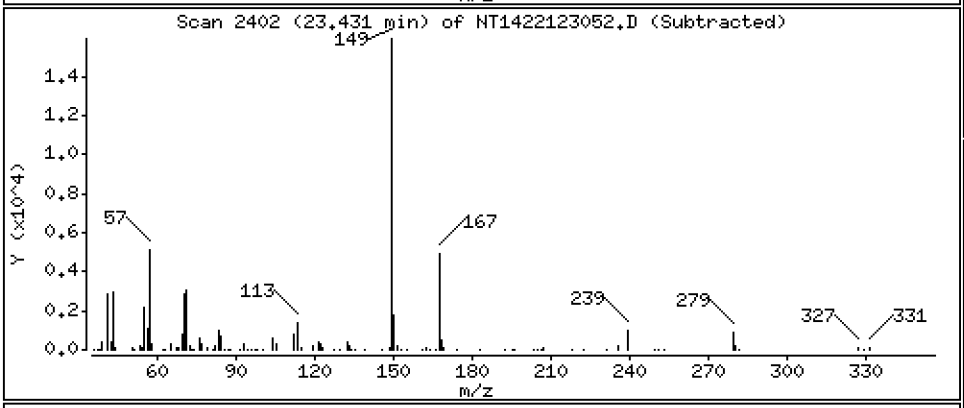
Column diameter: 0.25

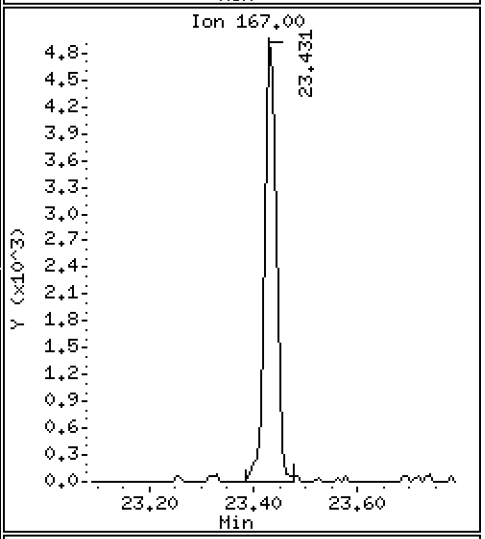
72 bis(2-Ethylhexyl)phthalate

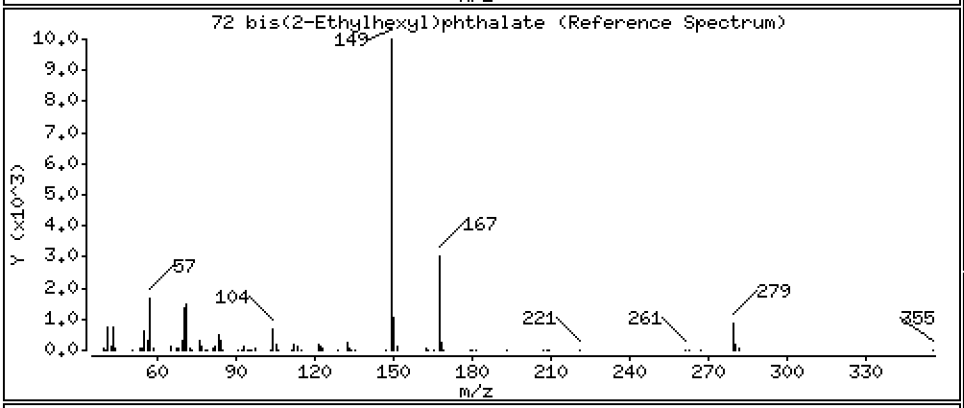
Concentration: 0.4704 ug/mL

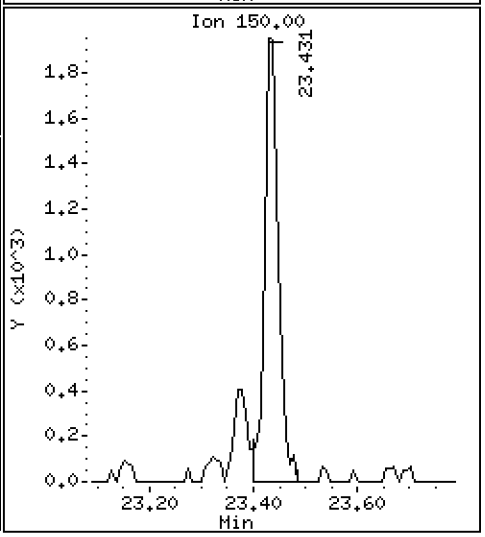


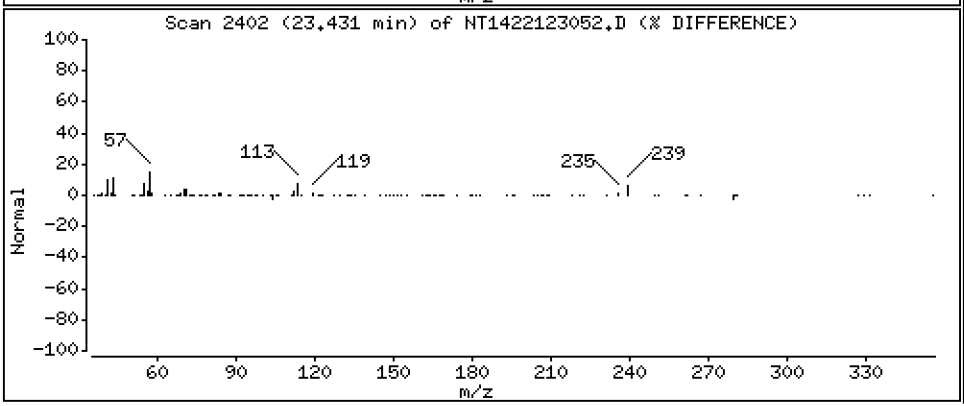












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

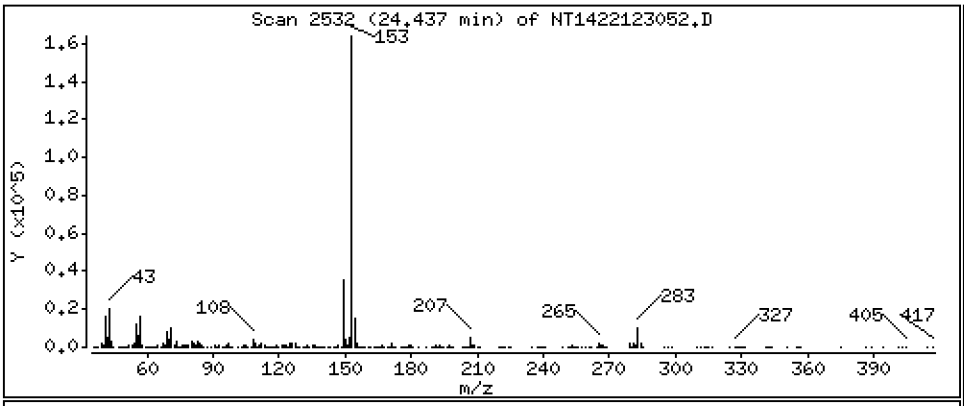
Operator: VTS

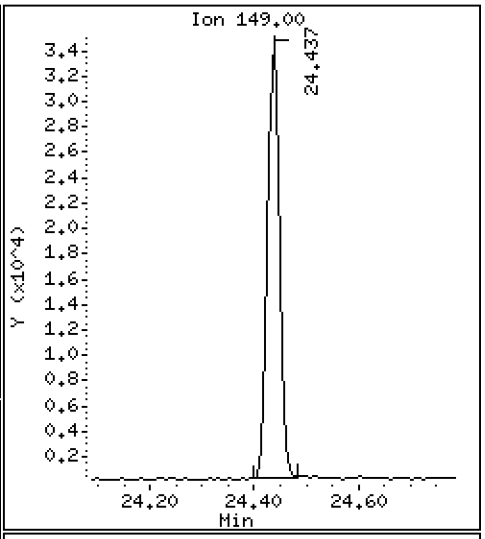
Column phase: ZB-5msi

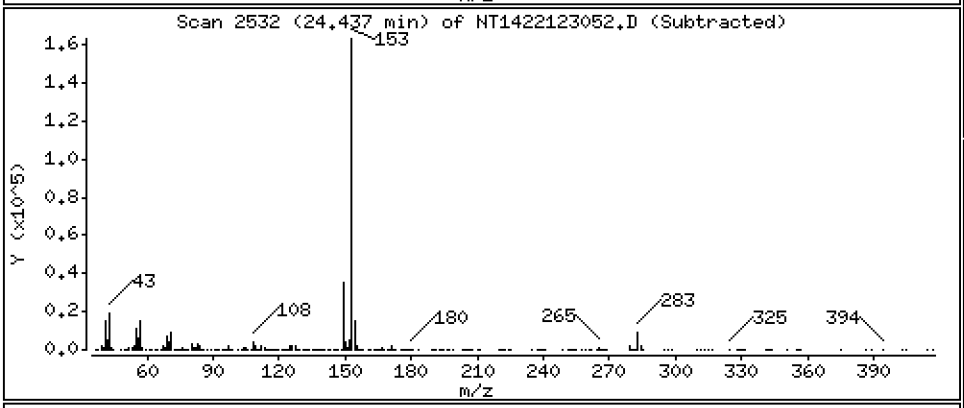
Column diameter: 0.25

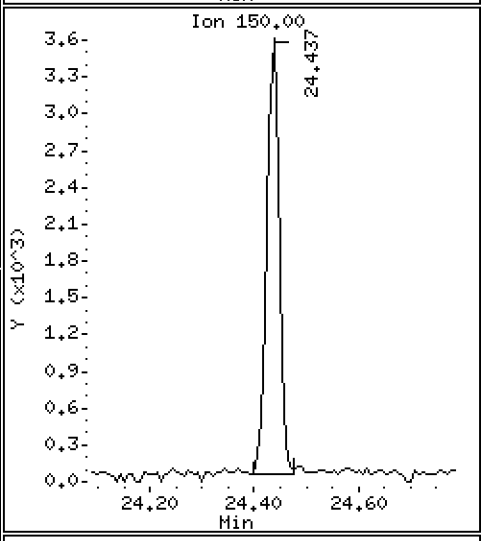
73 Di-n-octylphthalate

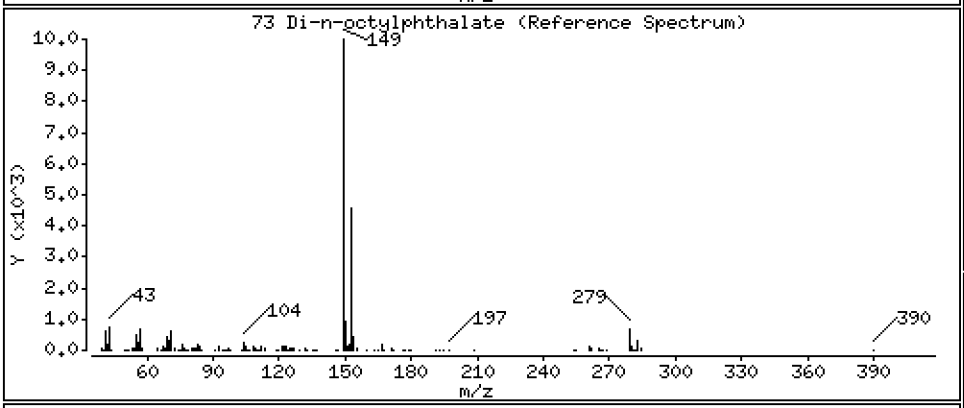
Concentration: 0.4879 ug/mL

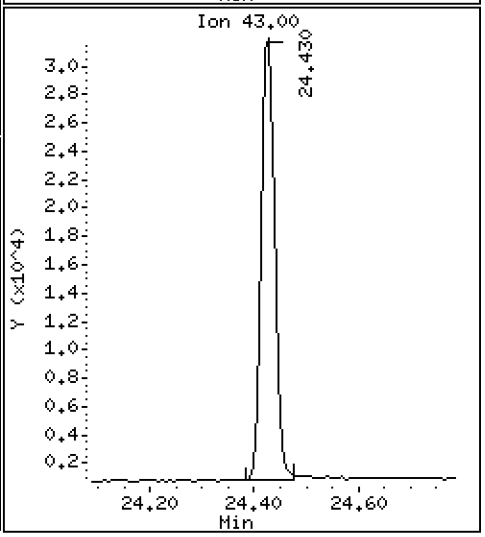


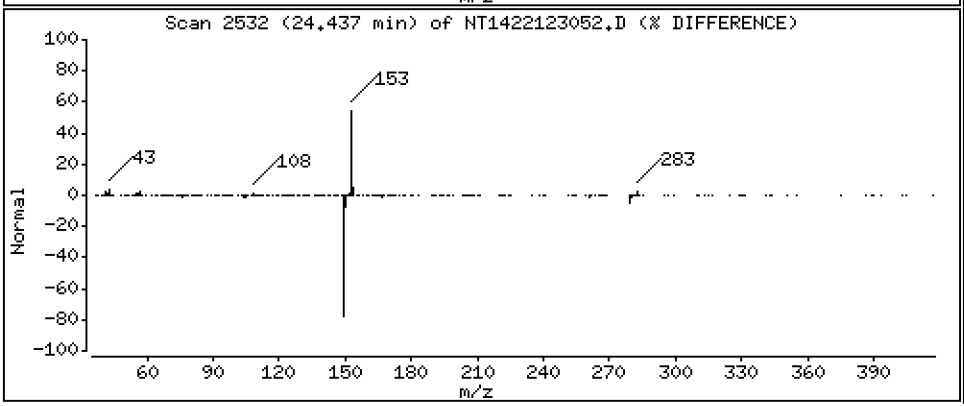












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

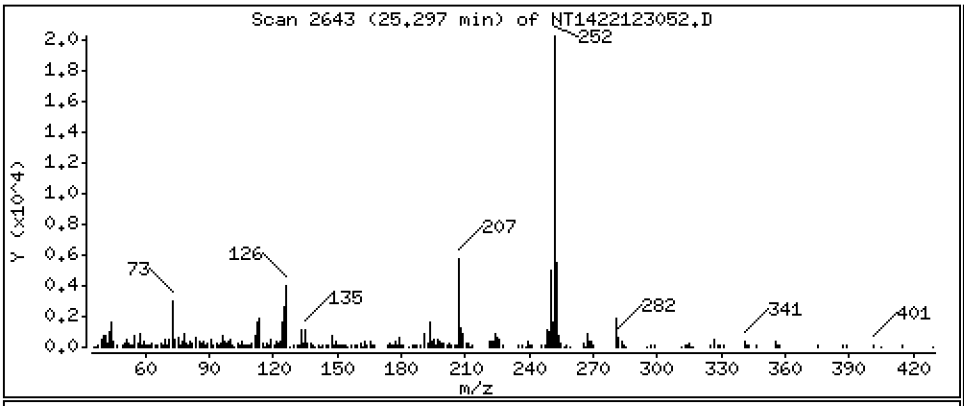
Operator: VTS

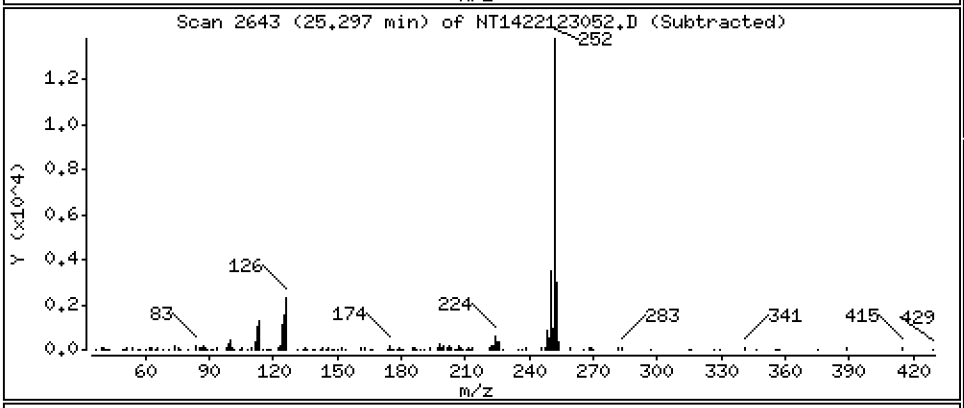
Column phase: ZB-5msi

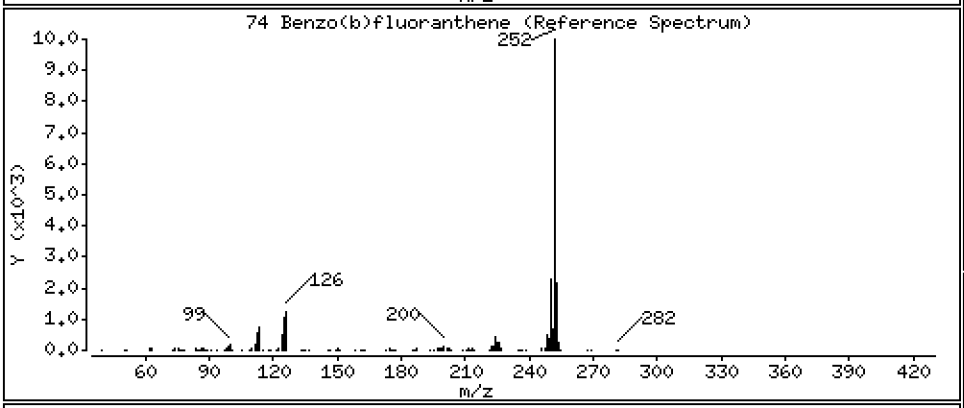
Column diameter: 0.25

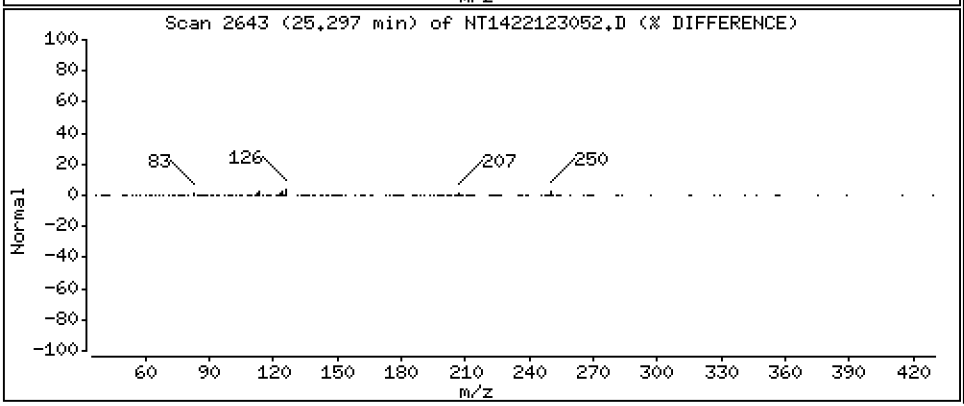
74 Benzo(b)fluoranthene

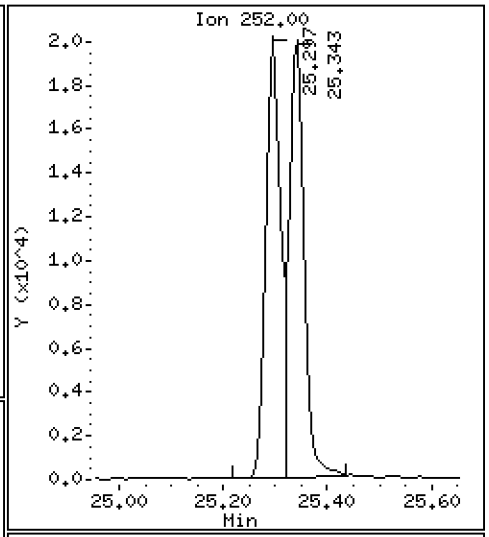
Concentration: 0.5079 ug/mL

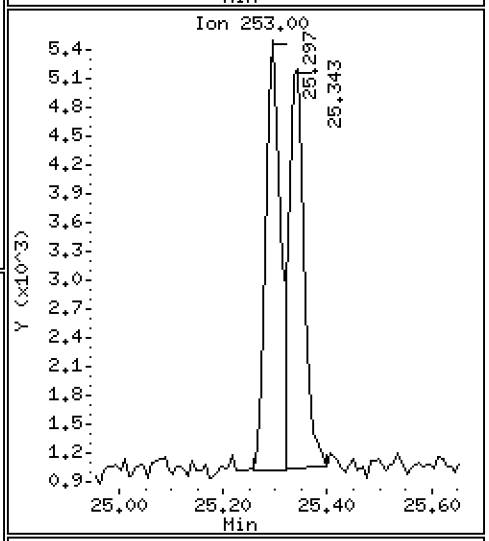


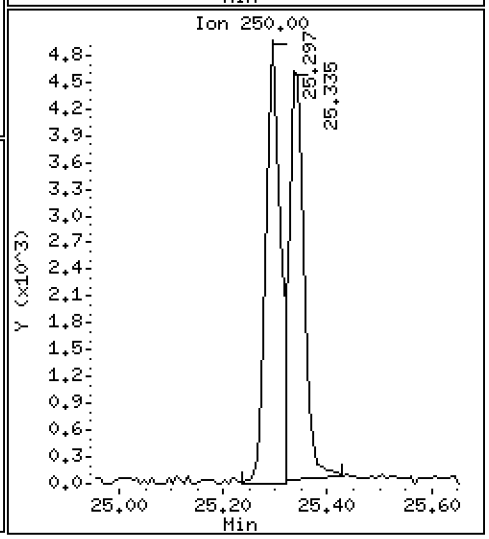












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

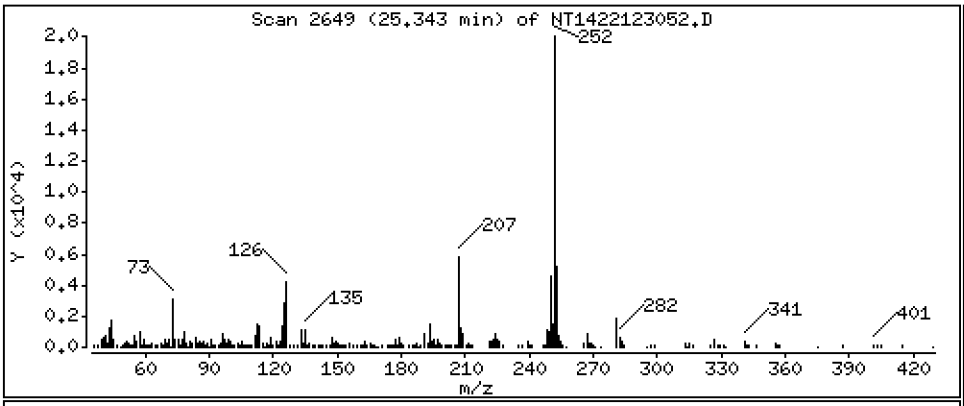
Operator: VTS

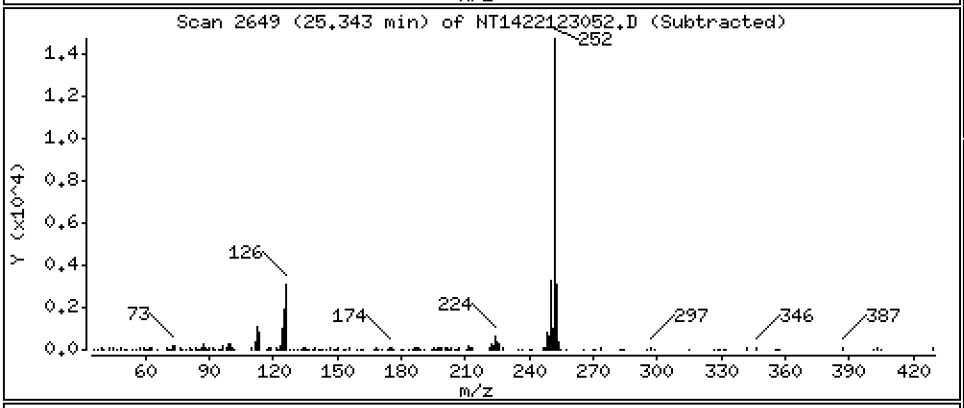
Column phase: ZB-5msi

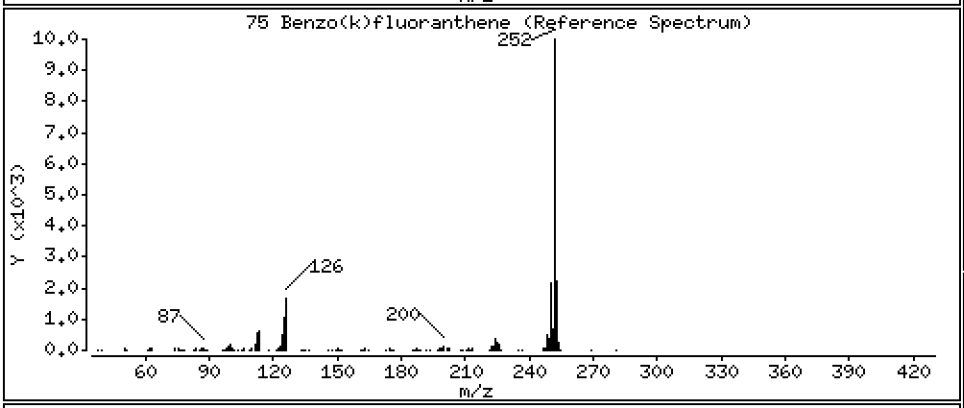
Column diameter: 0.25

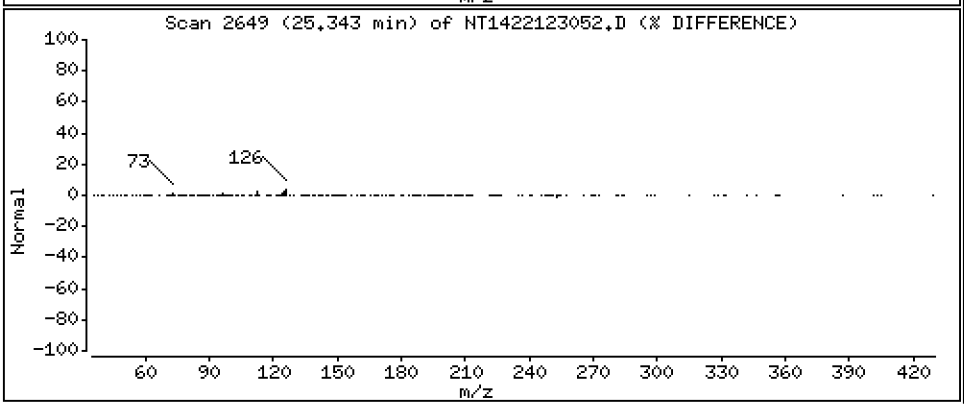
75 Benzo(k)fluoranthene

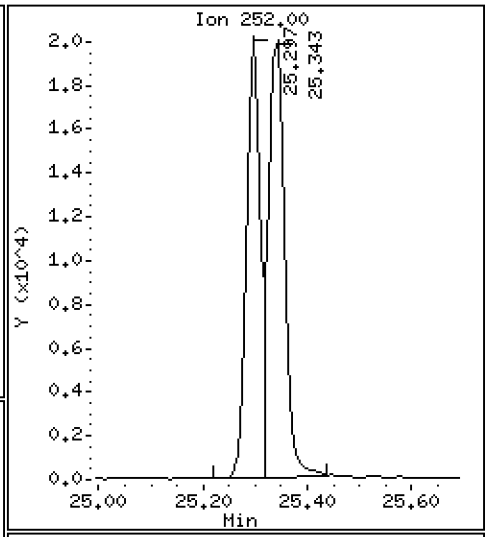
Concentration: 0.5155 ug/mL

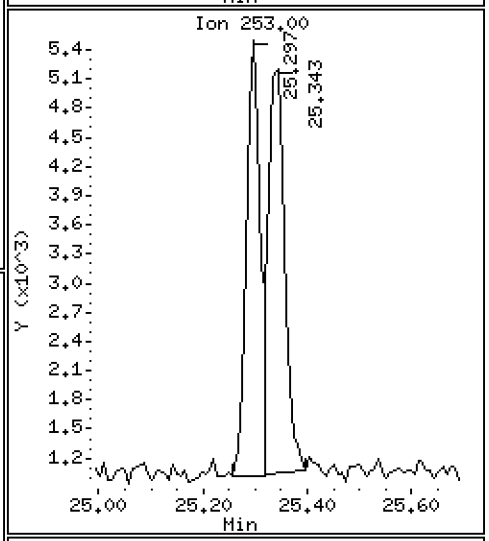


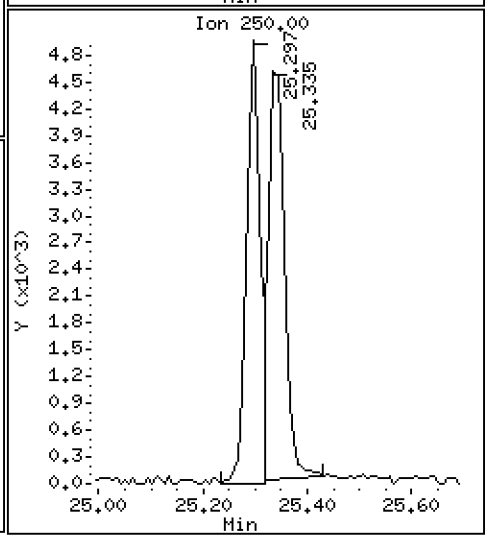












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

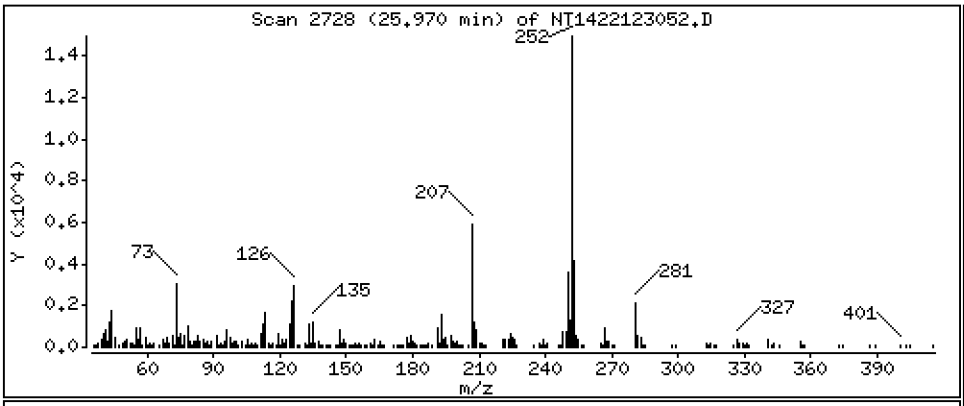
Operator: VTS

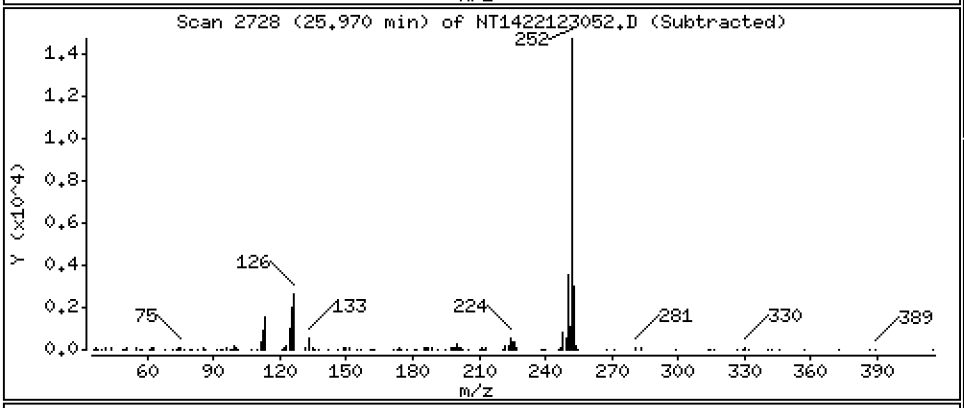
Column phase: ZB-5msi

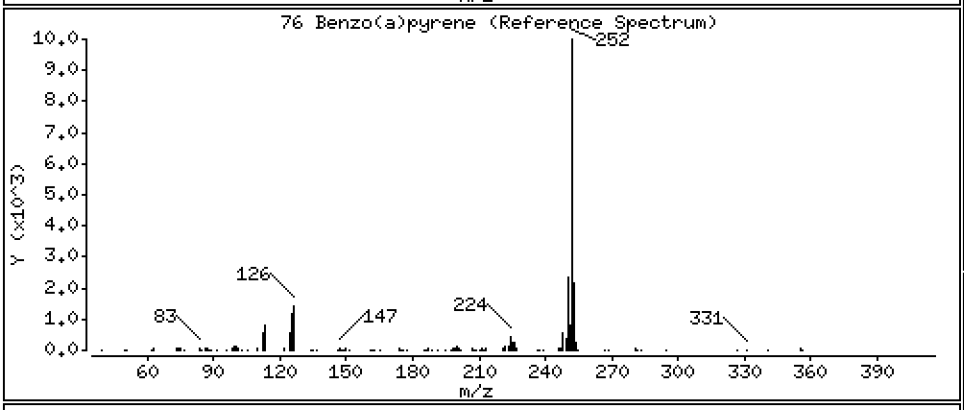
Column diameter: 0.25

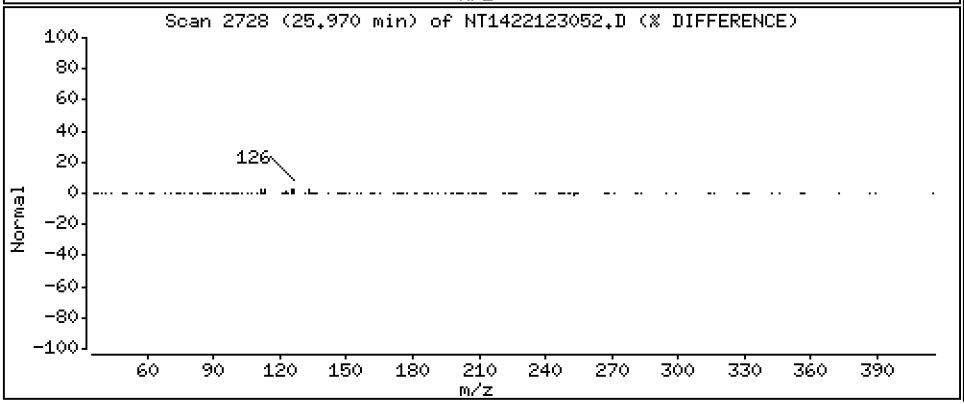
76 Benzo(a)pyrene

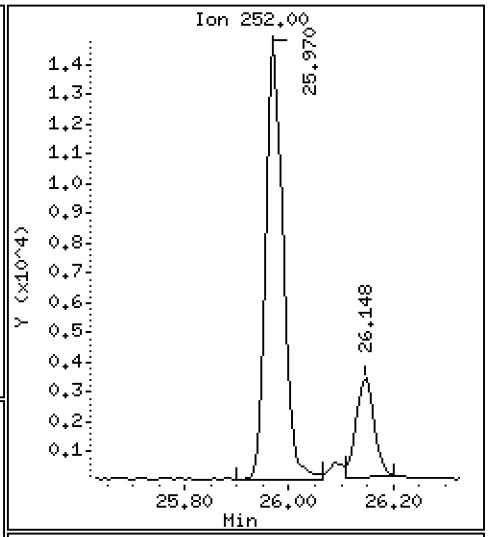
Concentration: 0.5015 ug/mL

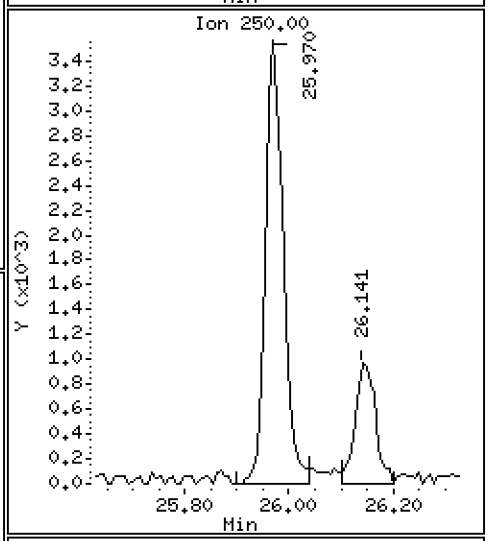


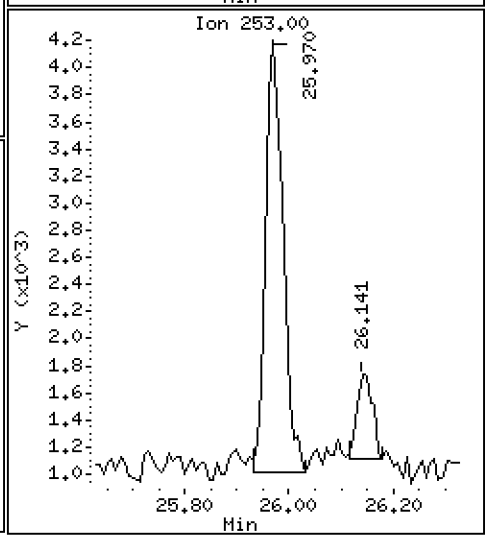












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

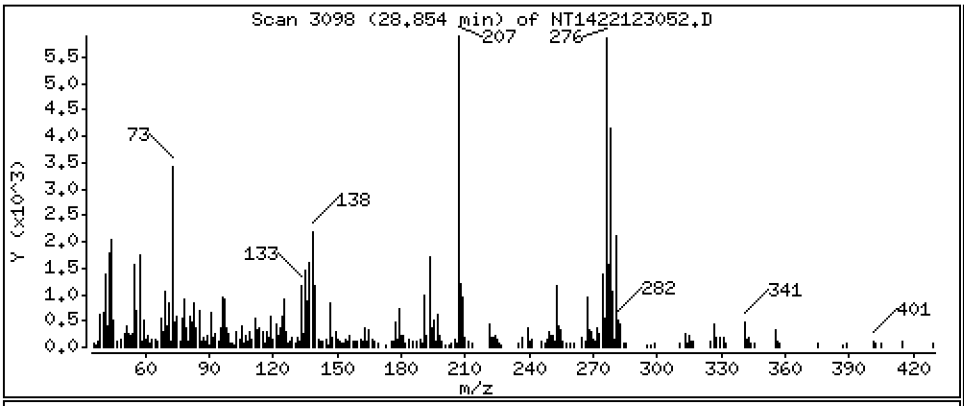
Operator: VTS

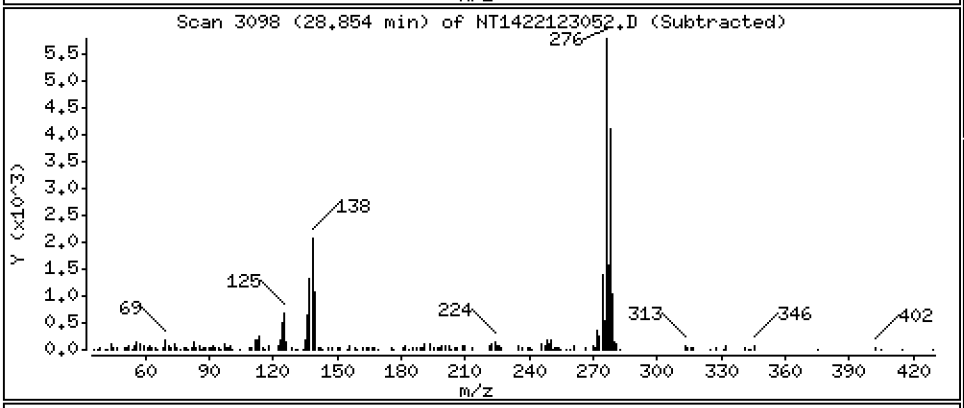
Column phase: ZB-5msi

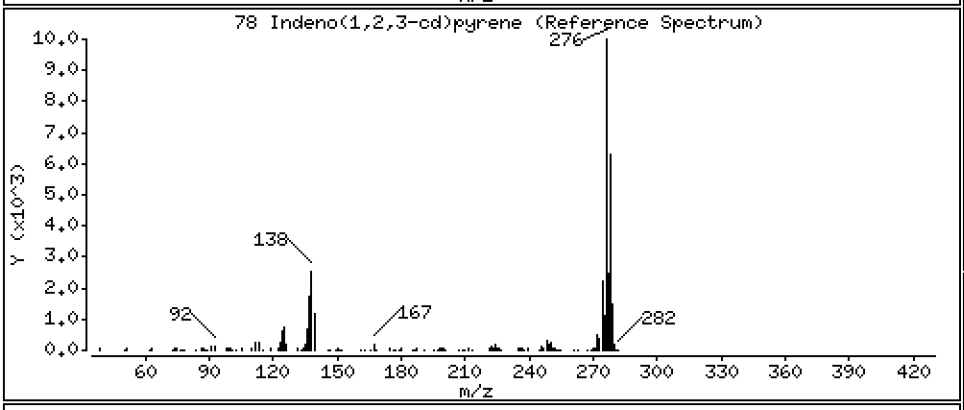
Column diameter: 0.25

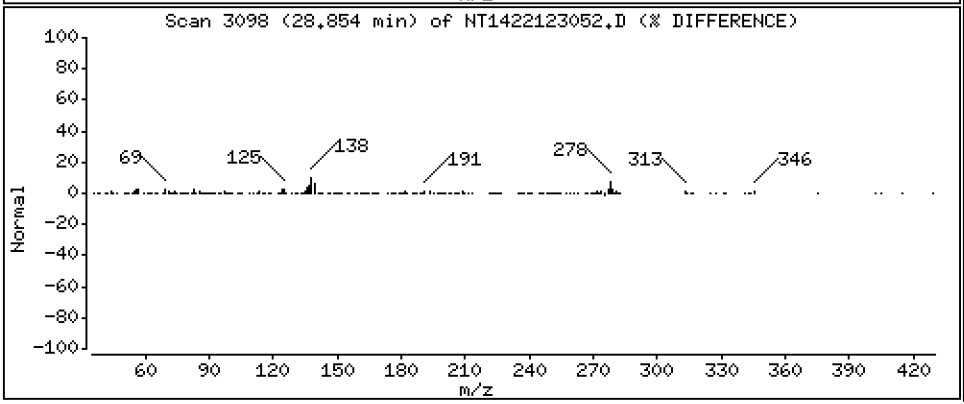
78 Indeno(1,2,3-cd)pyrene

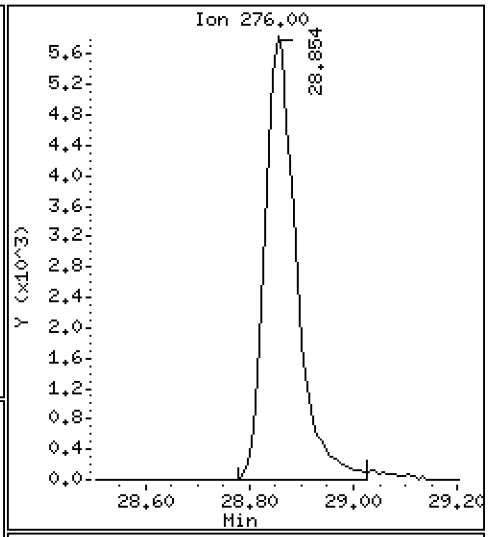
Concentration: 0.3235 ug/mL

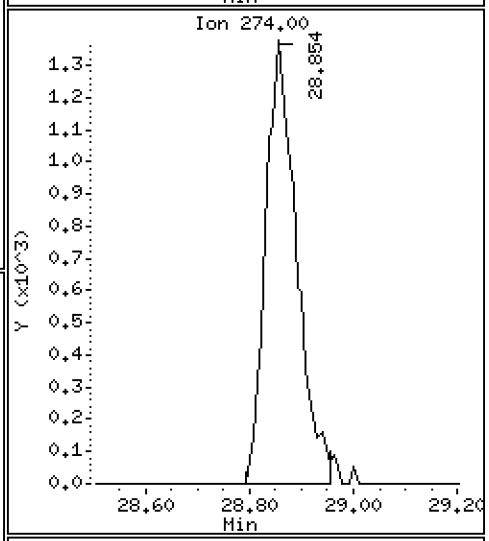


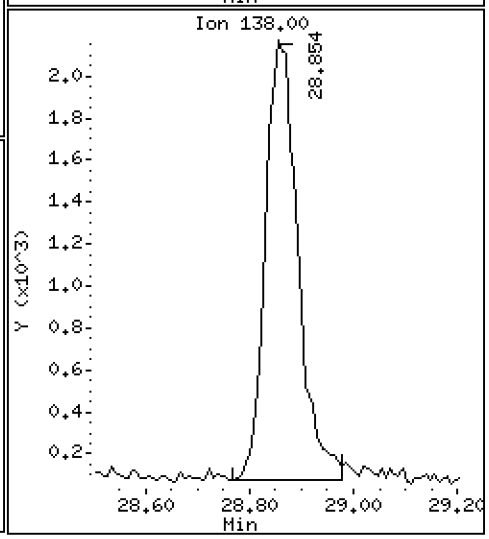












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

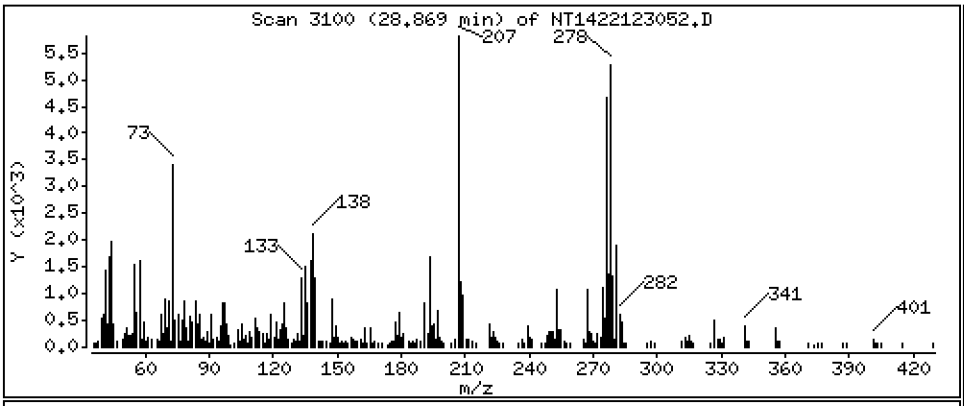
Operator: VTS

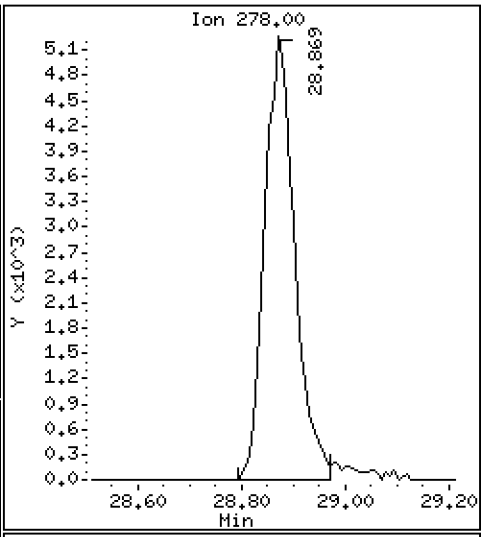
Column phase: ZB-5msi

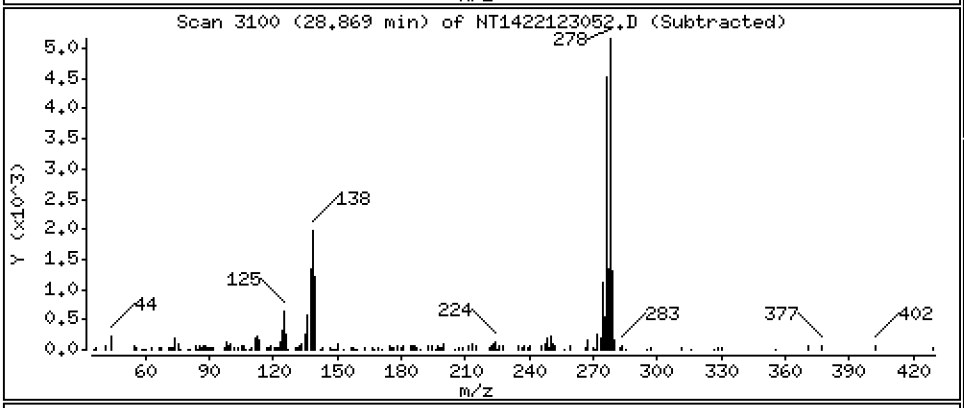
Column diameter: 0.25

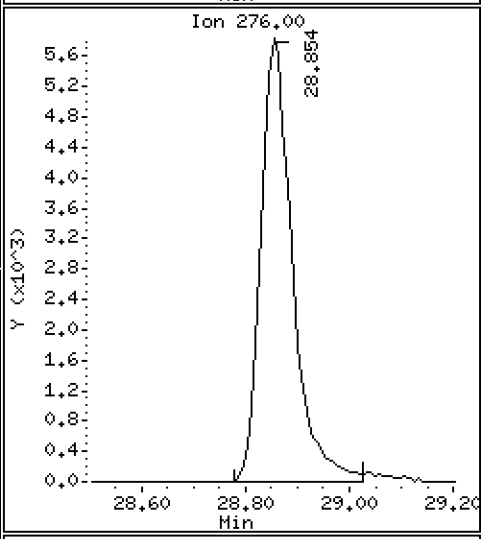
79 Dibenzo(a,h)anthracene

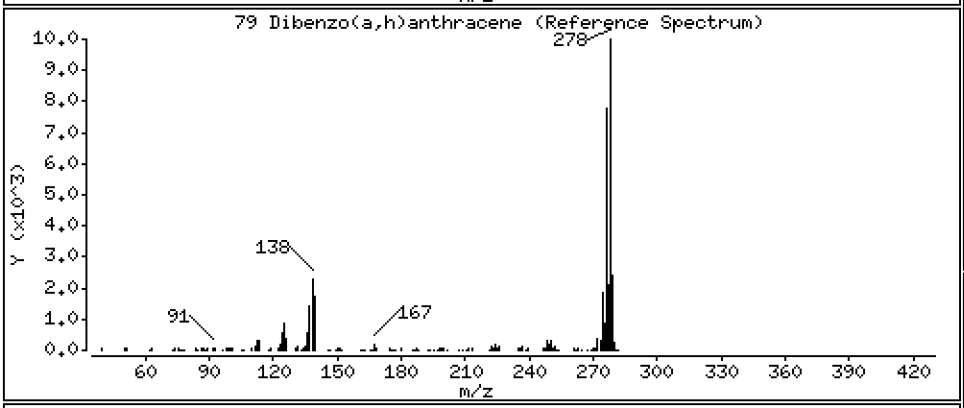
Concentration: 0.3297 ug/mL

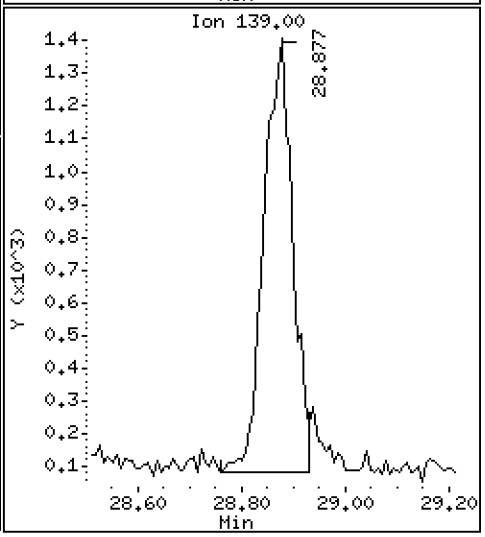


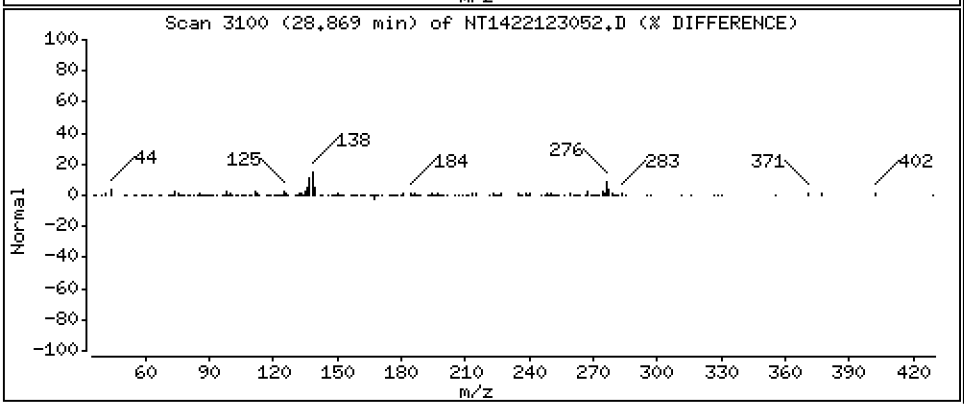












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

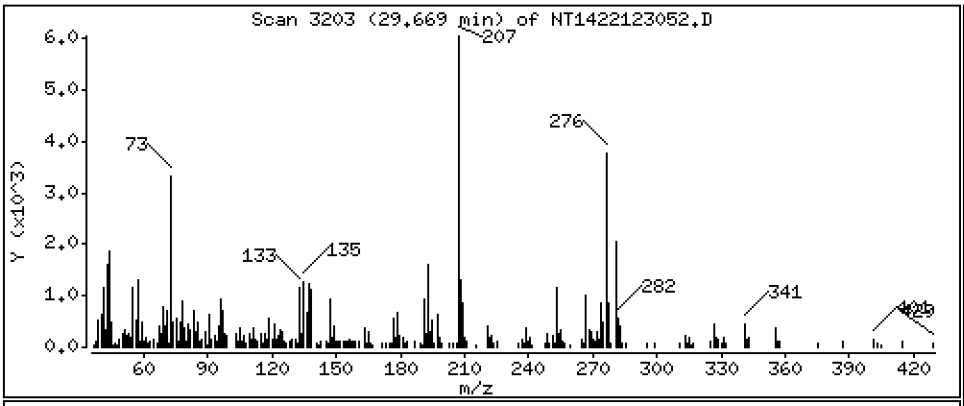
Operator: VTS

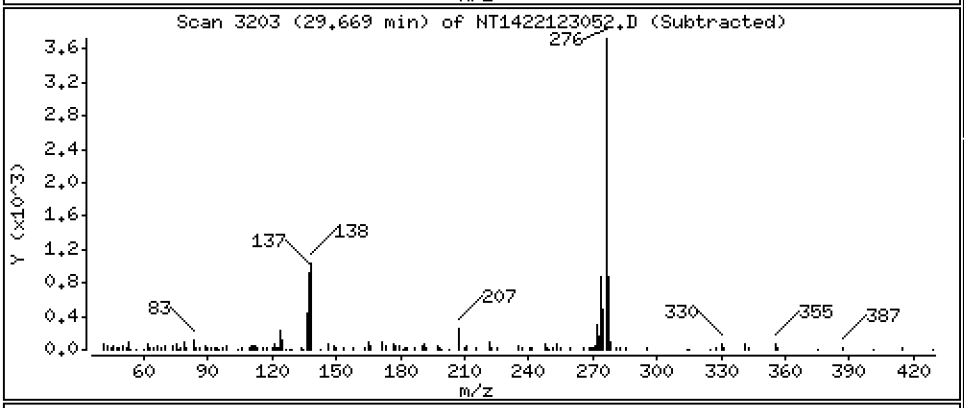
Column phase: ZB-5msi

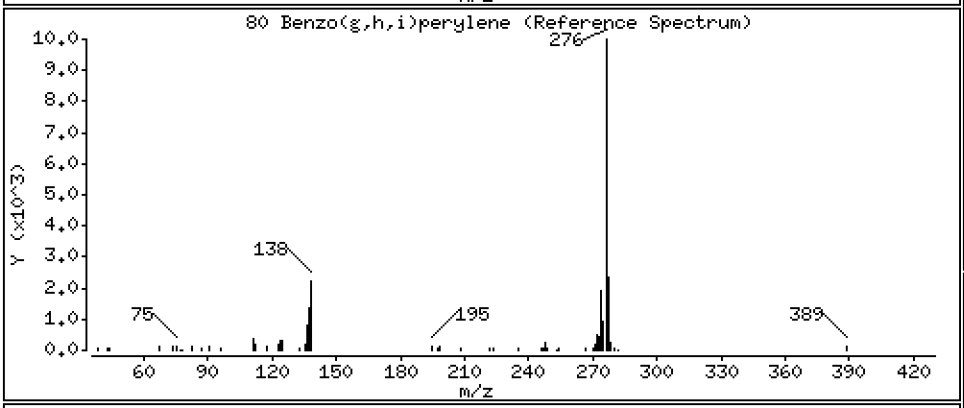
Column diameter: 0.25

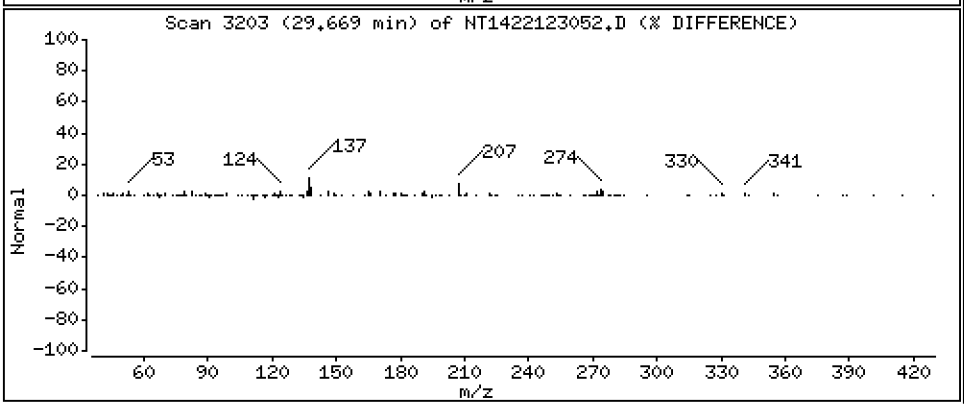
80 Benzo(g,h,i)perylene

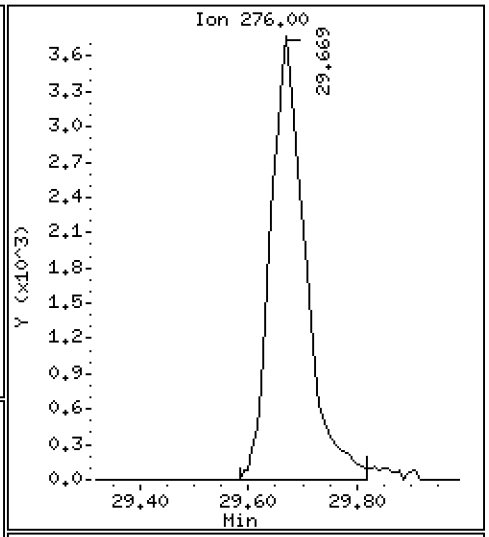
Concentration: 0.2675 ug/mL

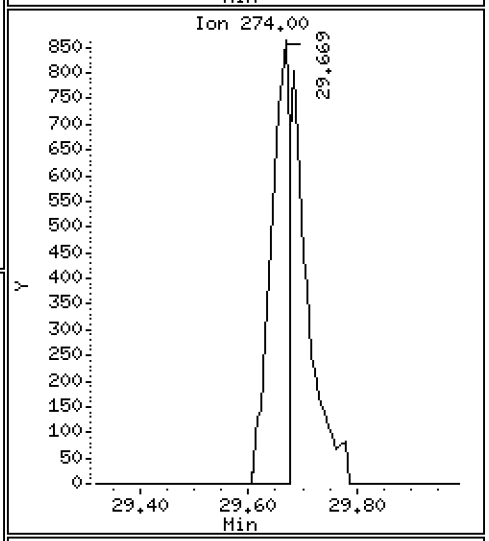


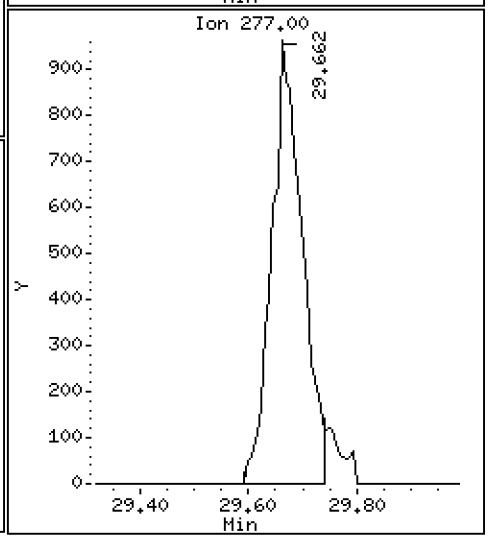












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

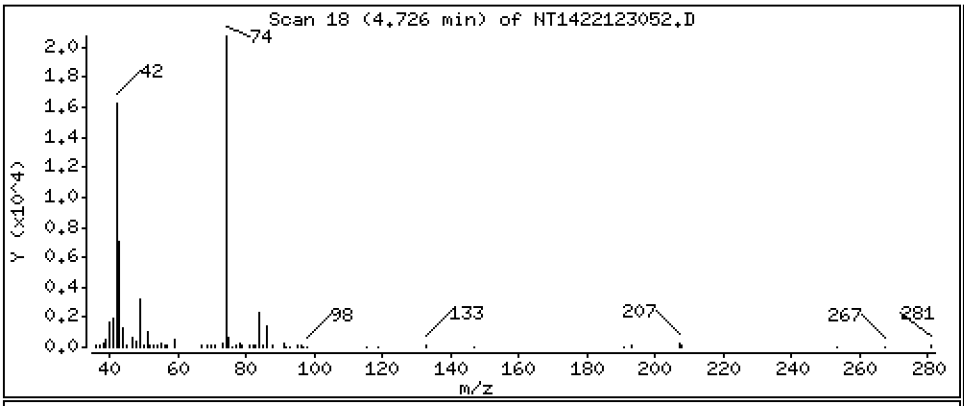
Operator: VTS

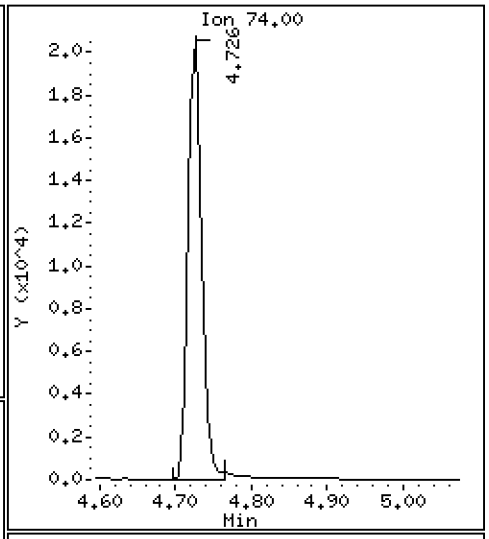
Column phase: ZB-5msi

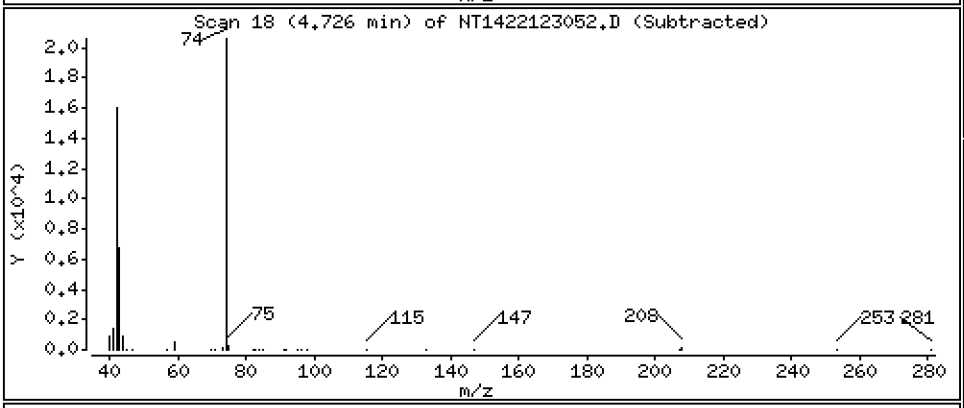
Column diameter: 0.25

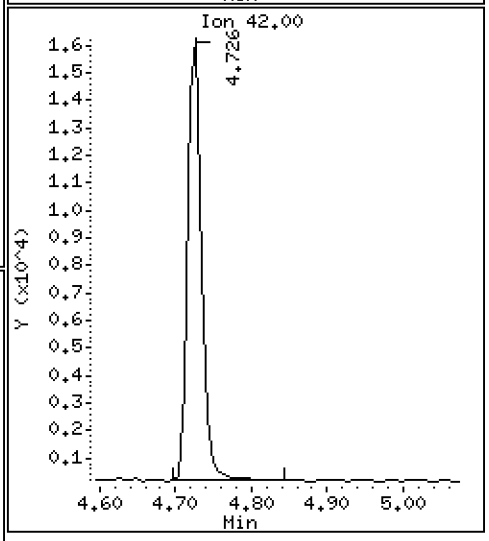
90 N-Nitrosodimethylamine

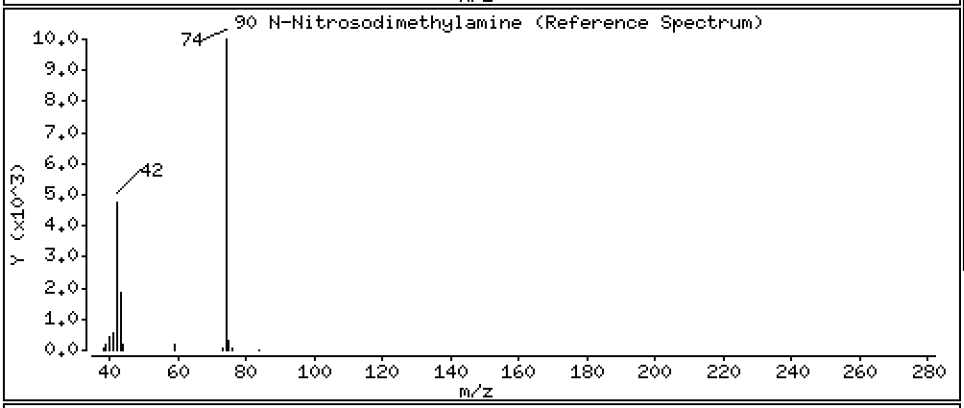
Concentration: 1.002 ug/mL

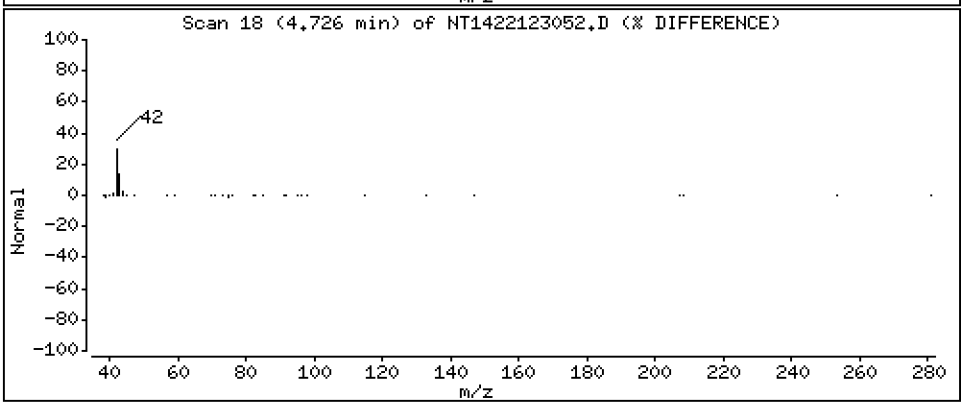












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

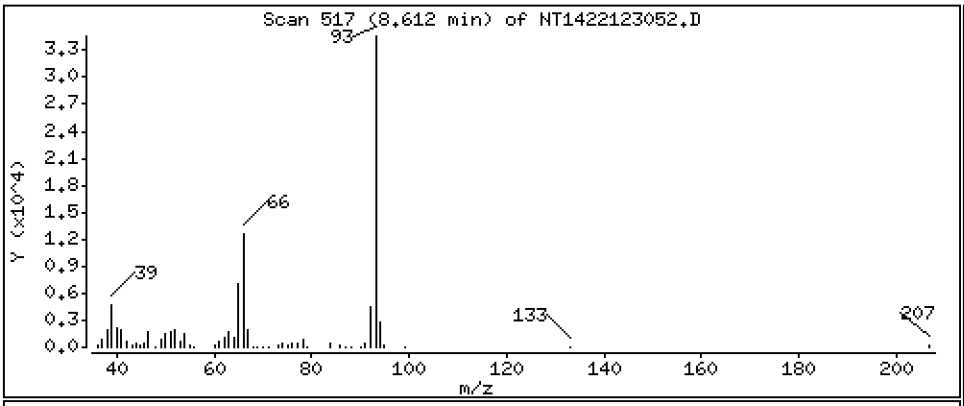
Operator: VTS

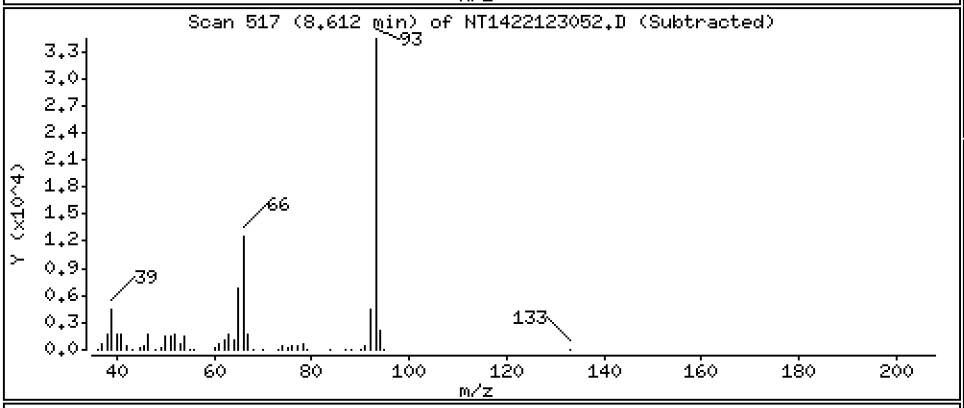
Column phase: ZB-5msi

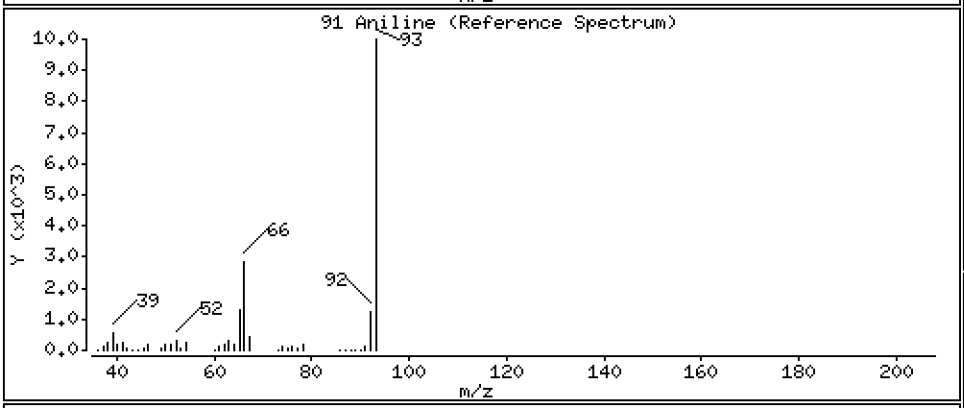
Column diameter: 0.25

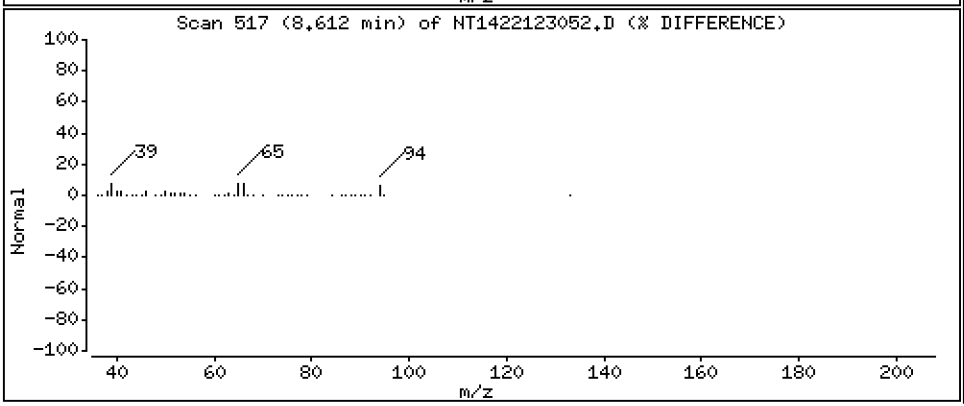
91 Aniline

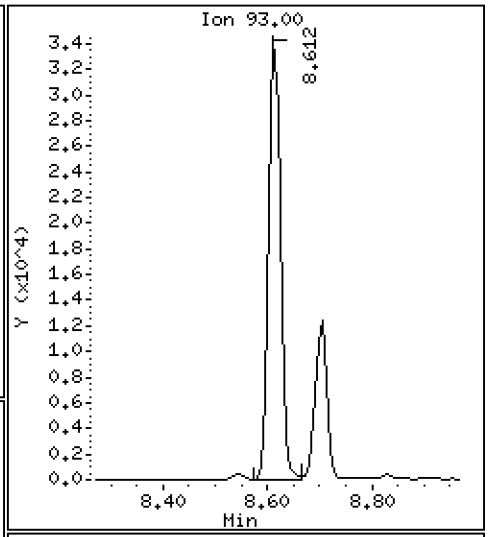
Concentration: 0.9702 ug/mL

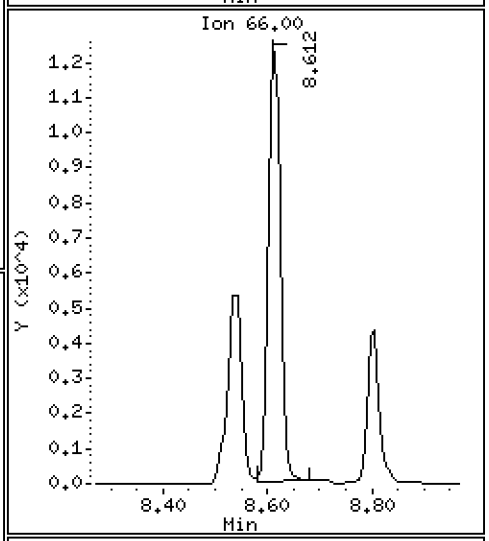


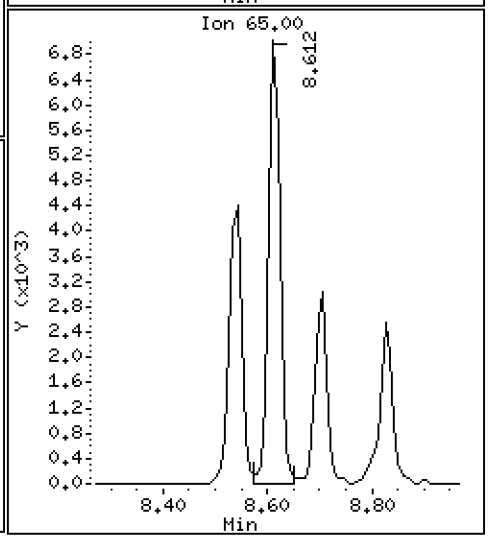












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

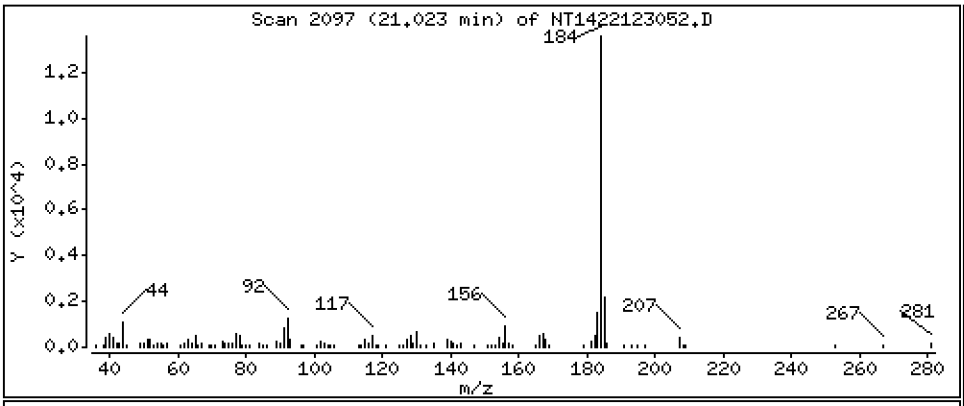
Operator: VTS

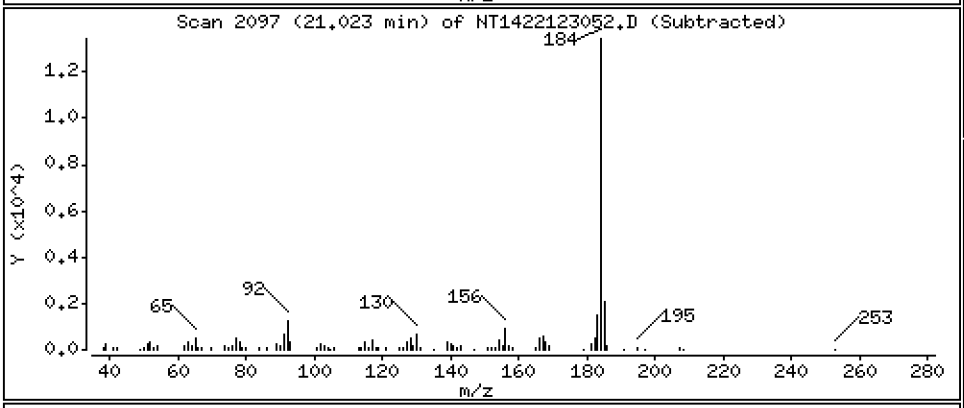
Column phase: ZB-5msi

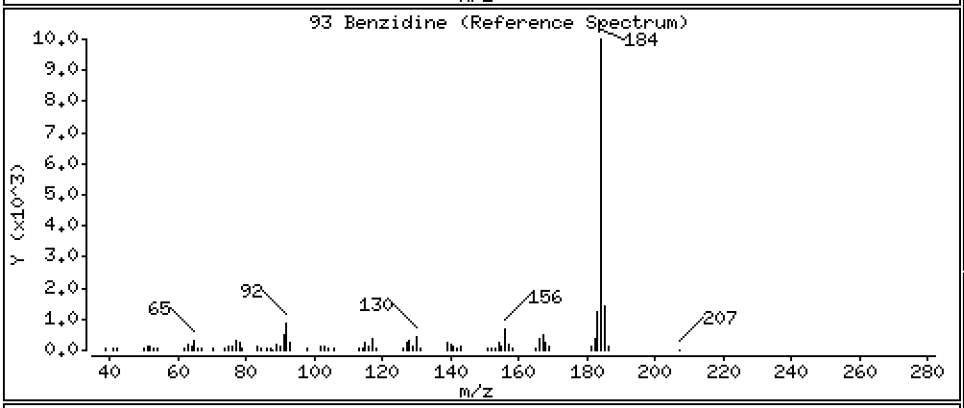
Column diameter: 0.25

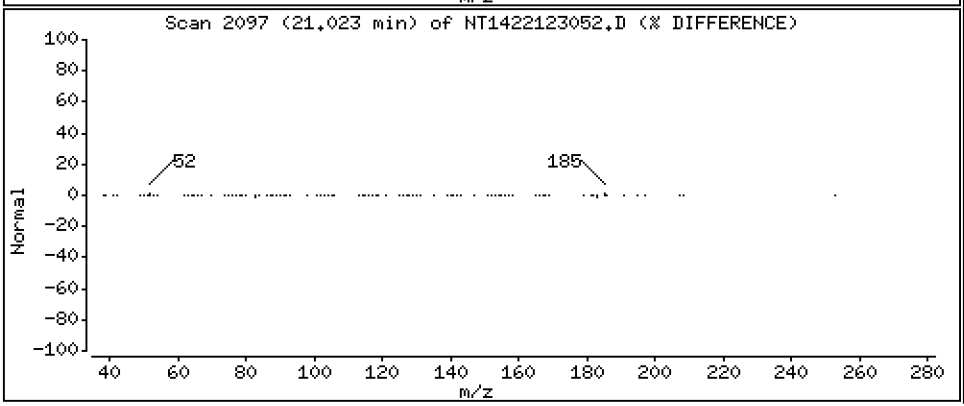
93 Benzidine

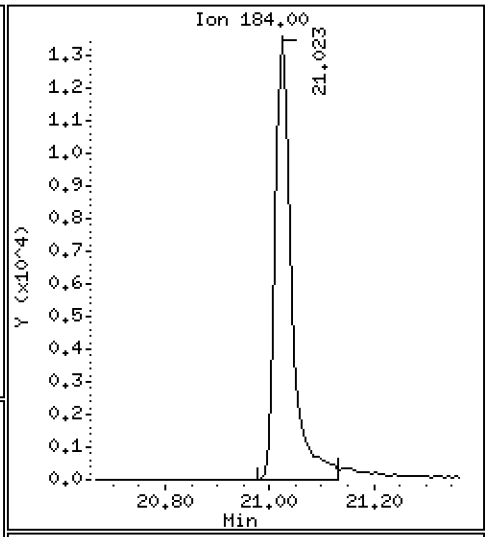
Concentration: 0.8039 ug/mL

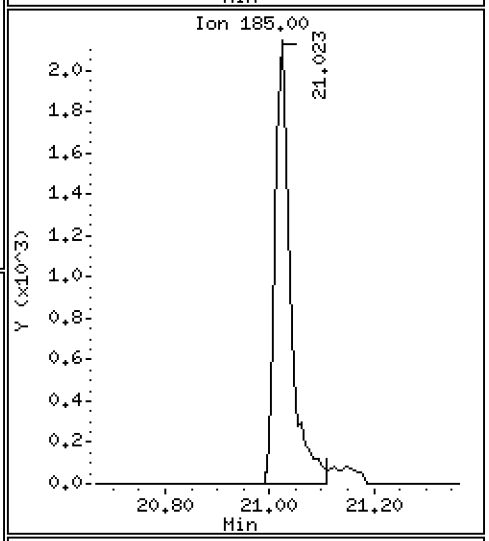


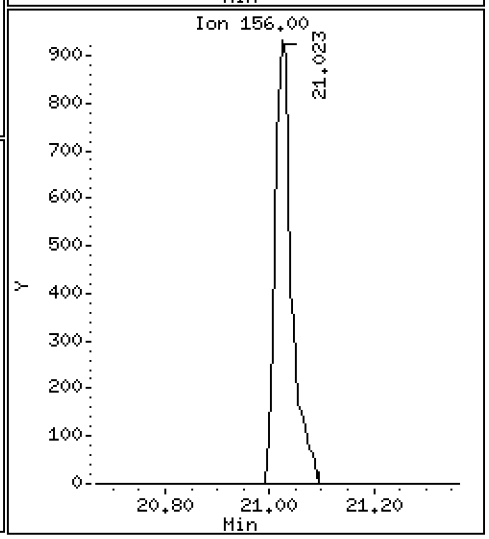












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

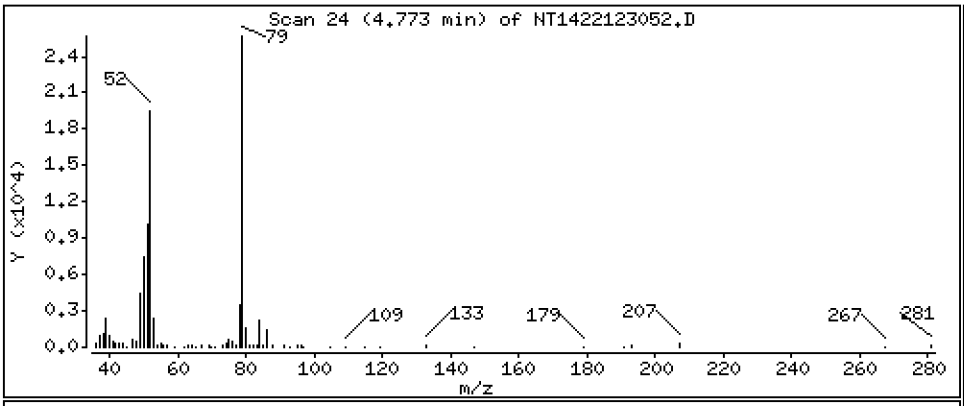
Operator: VTS

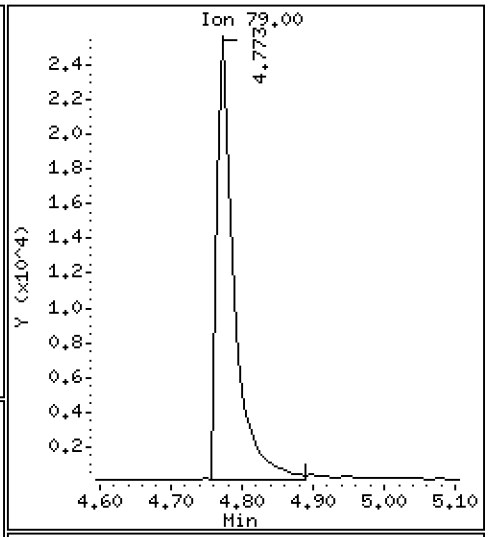
Column phase: ZB-5msi

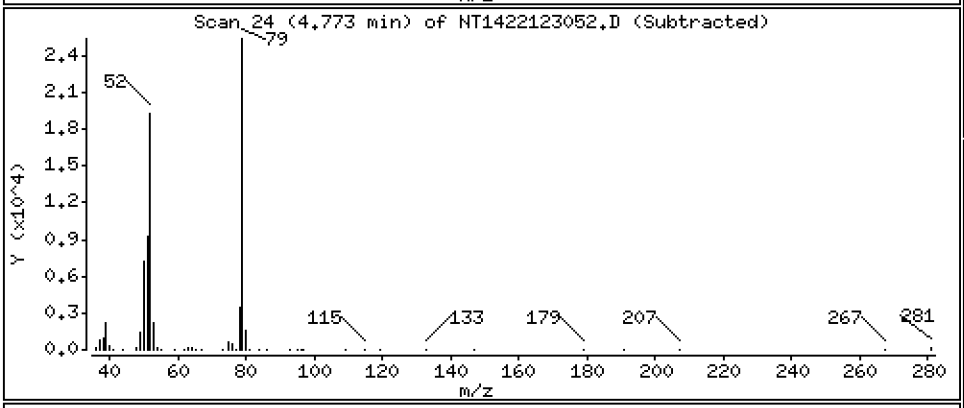
Column diameter: 0.25

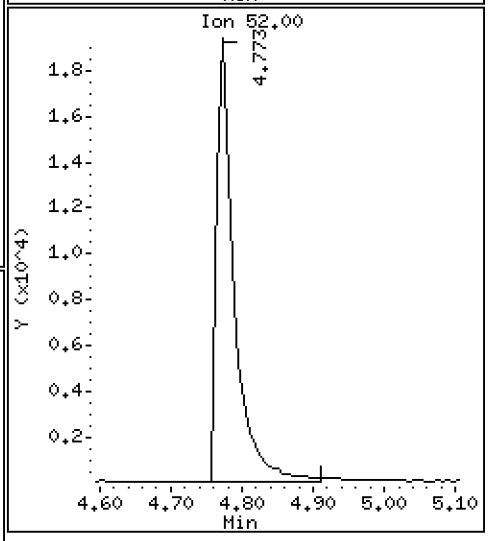
103 Pyridine

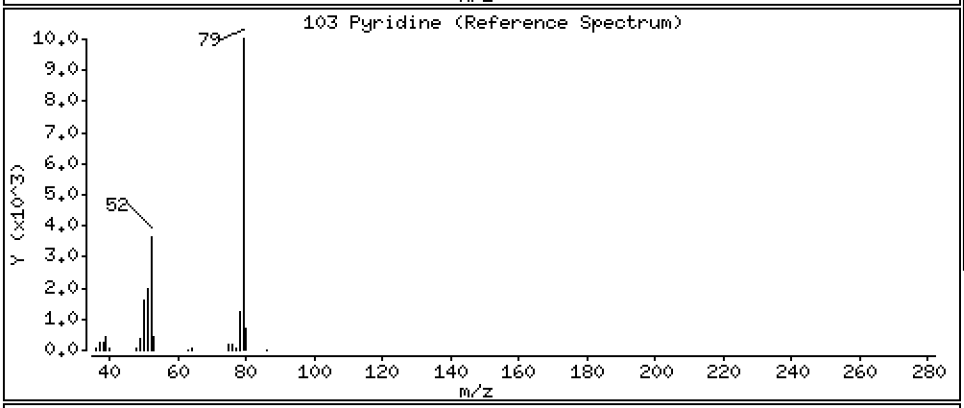
Concentration: 0.5100 ug/mL

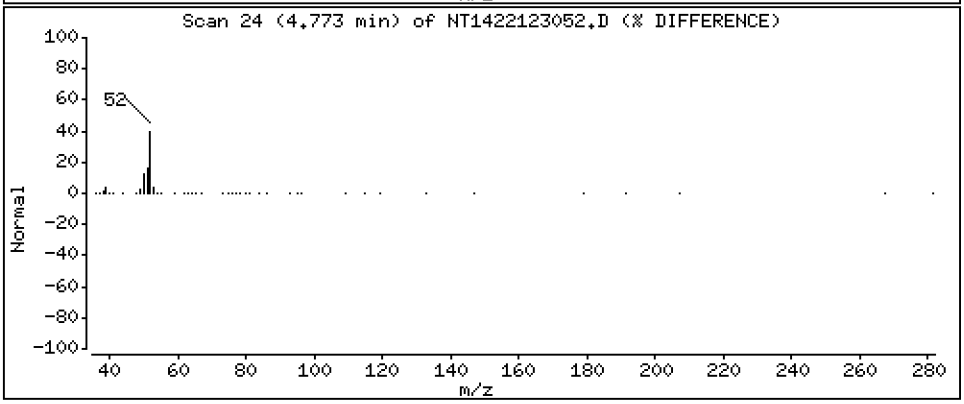












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

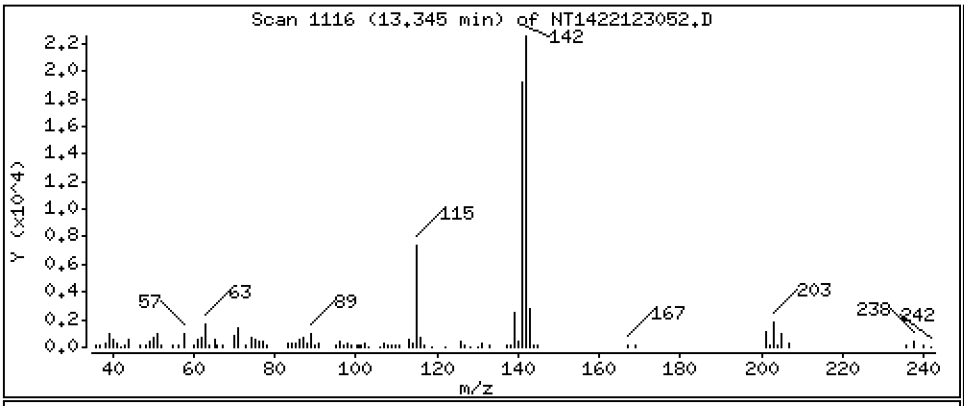
Operator: VTS

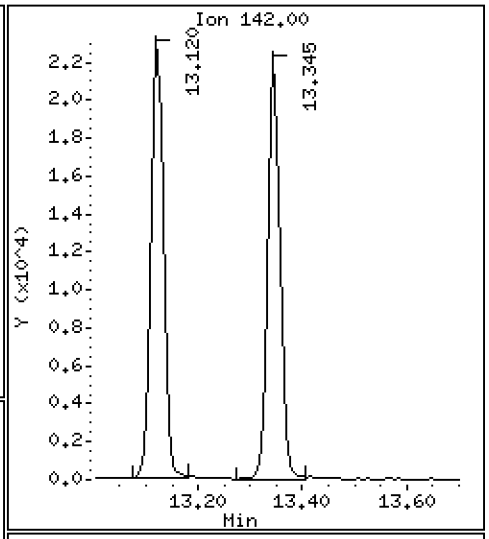
Column phase: ZB-5msi

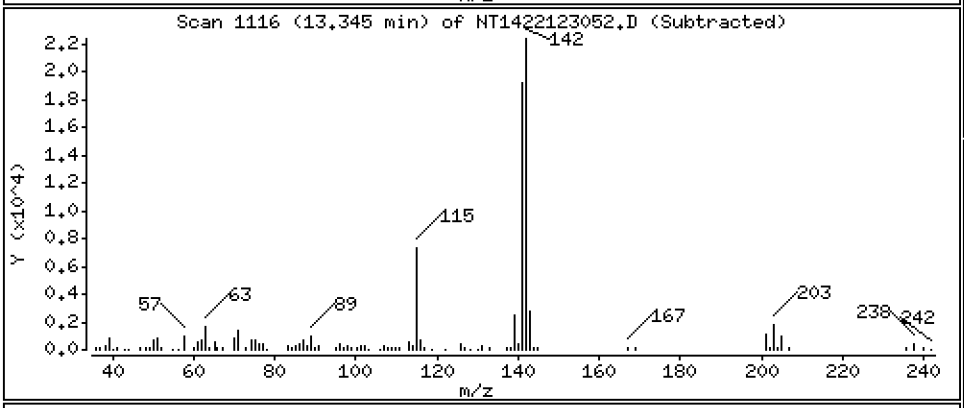
Column diameter: 0.25

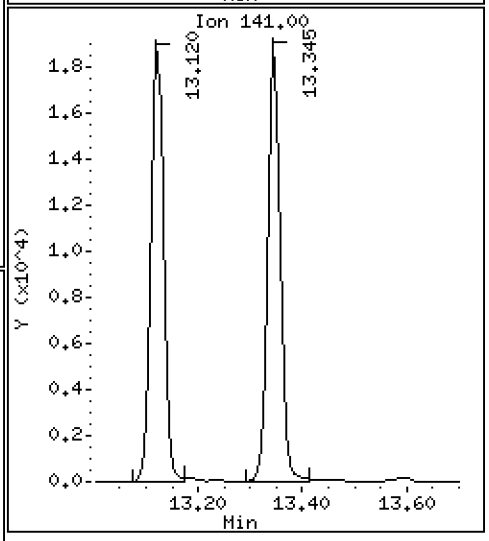
105 1-methylnaphthalene

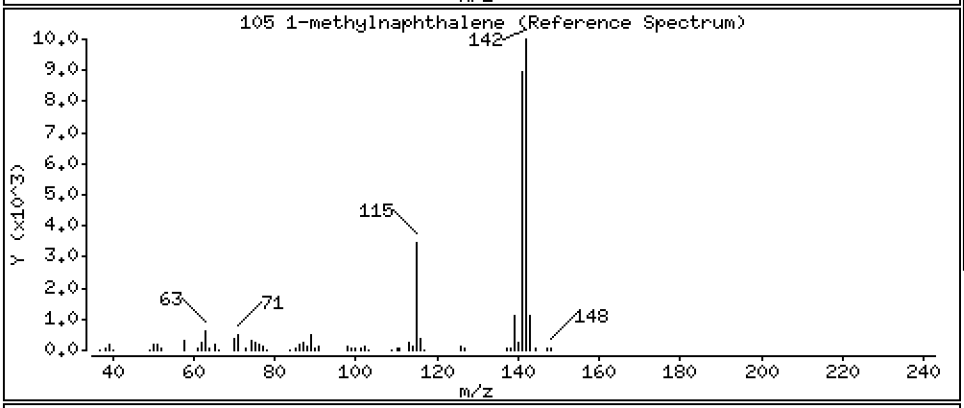
Concentration: 0.4765 ug/mL

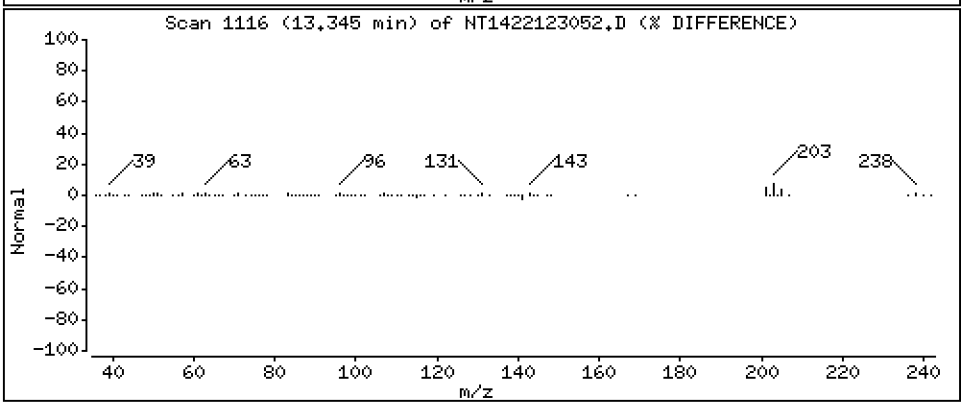












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

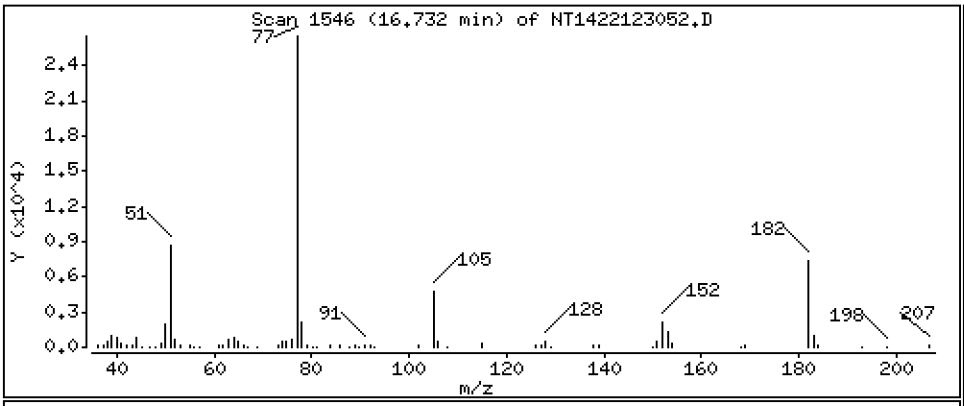
Operator: VTS

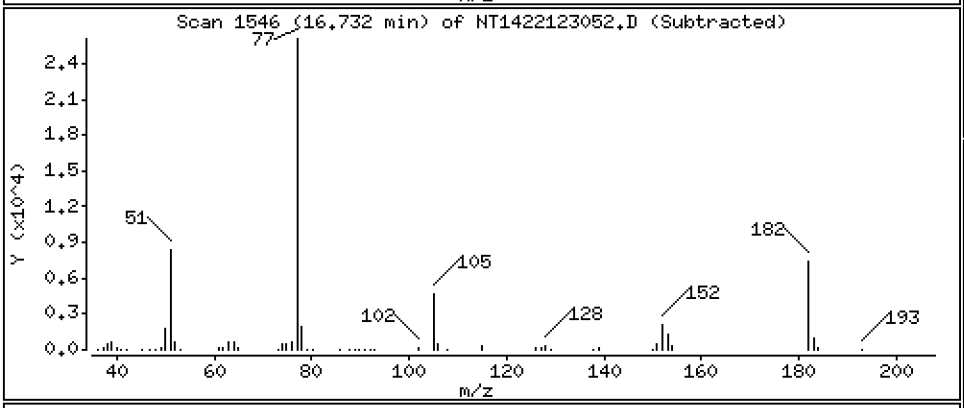
Column phase: ZB-5msi

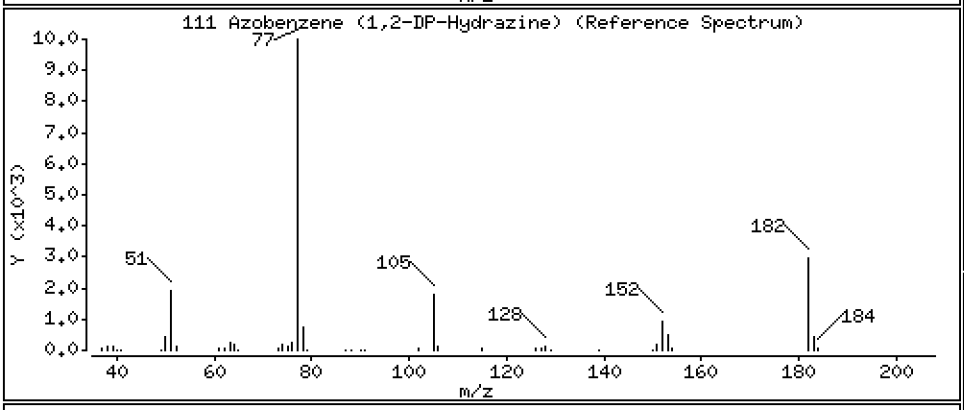
Column diameter: 0.25

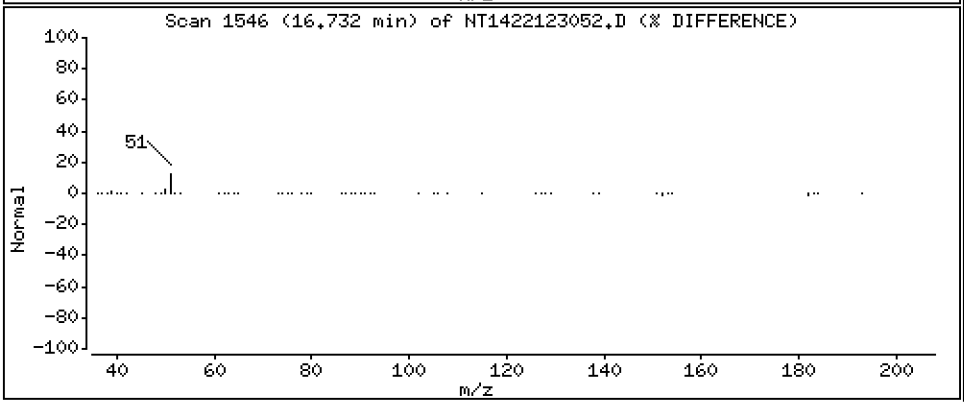
111 Azobenzene (1,2-DP-Hydrazine)

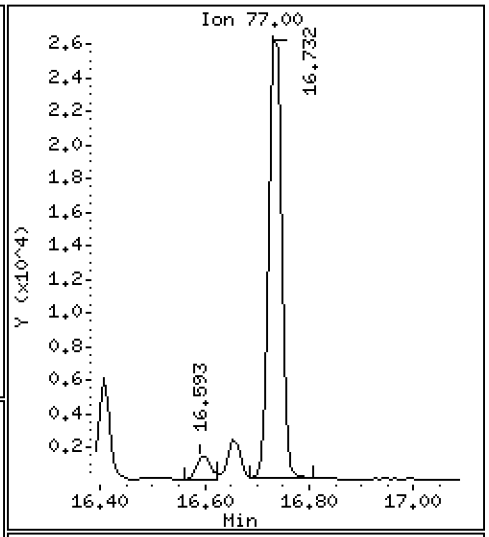
Concentration: 0.5124 ug/mL

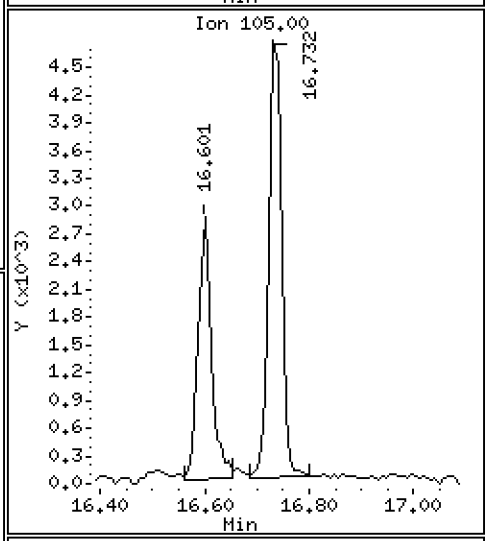


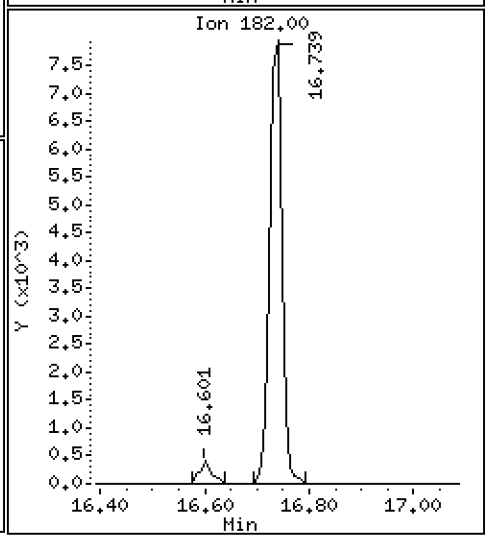












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

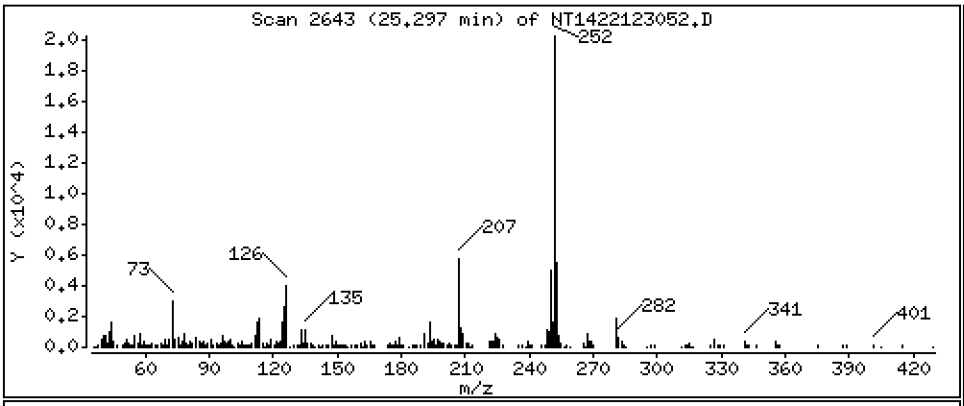
Operator: VTS

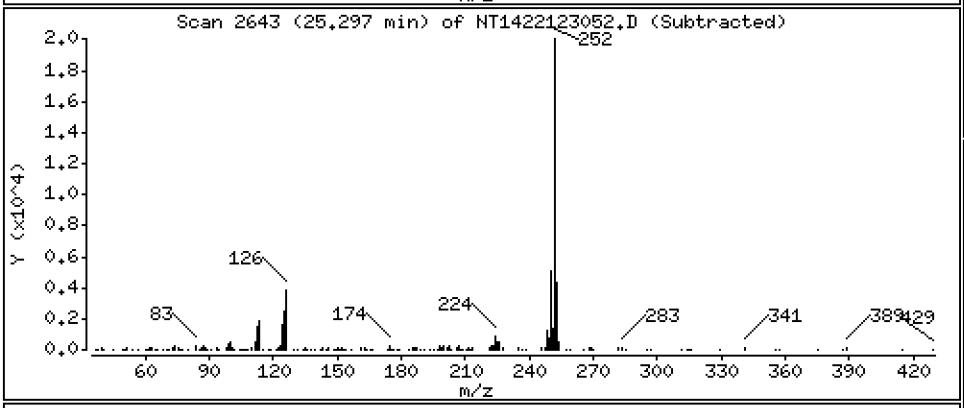
Column phase: ZB-5msi

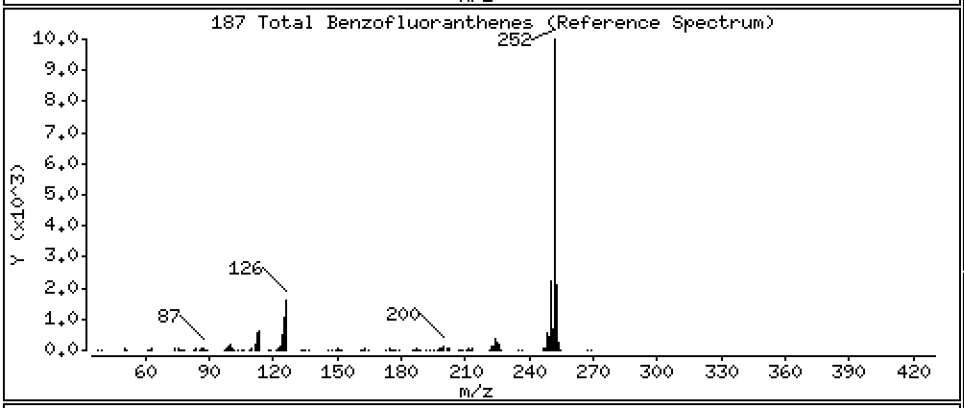
Column diameter: 0.25

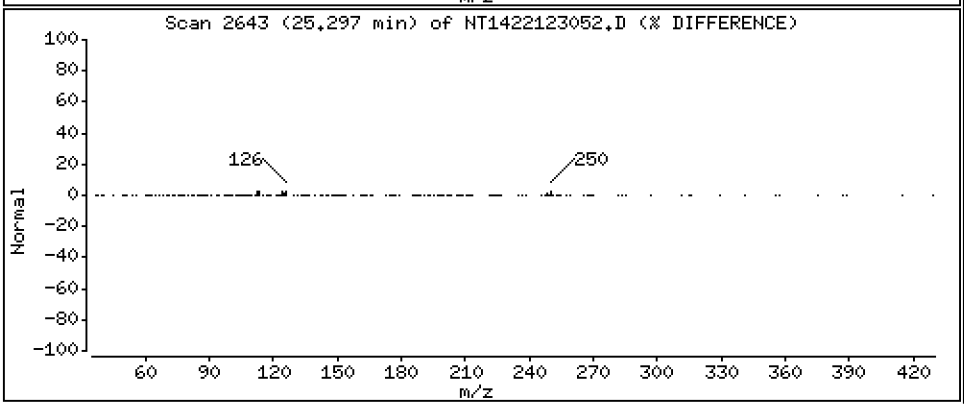
187 Total Benzofluoranthenes

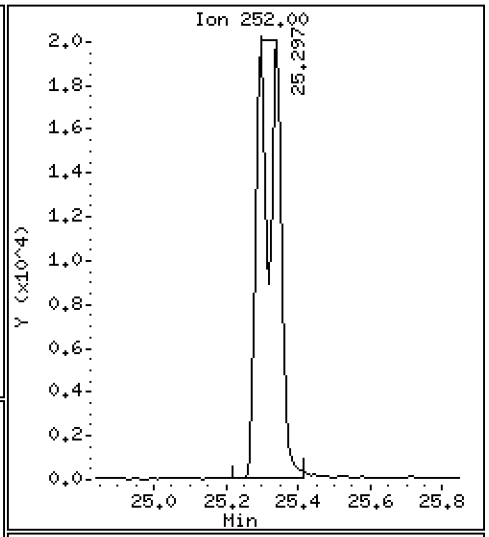
Concentration: 1.022 ug/mL

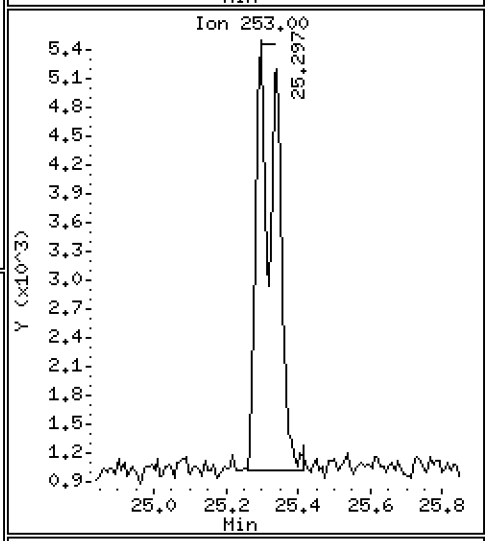


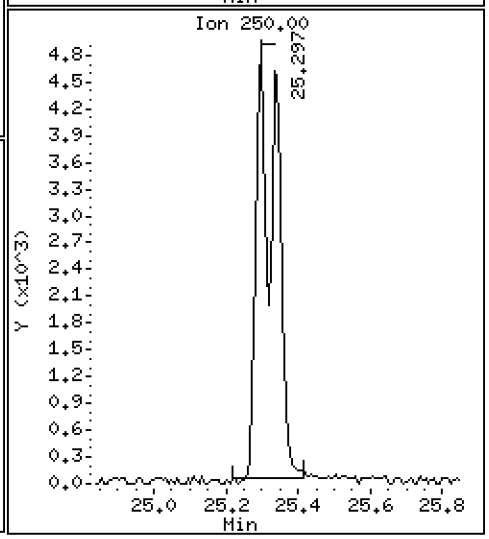












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Date : 31-DEC-2022 15:05

Client ID:

Instrument: nt14.i

Sample Info: SKL0356-LCV2

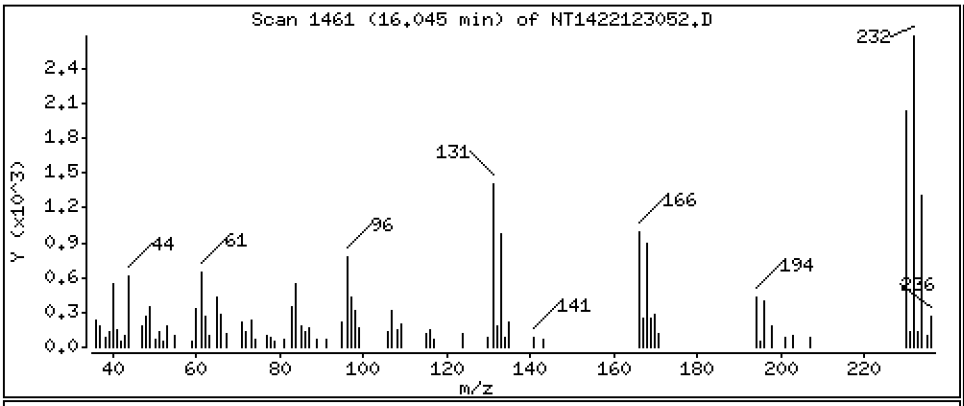
Operator: VTS

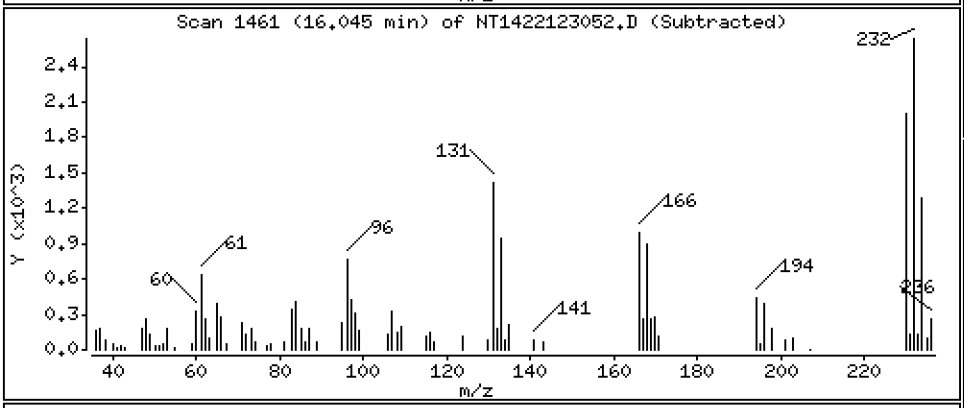
Column phase: ZB-5msi

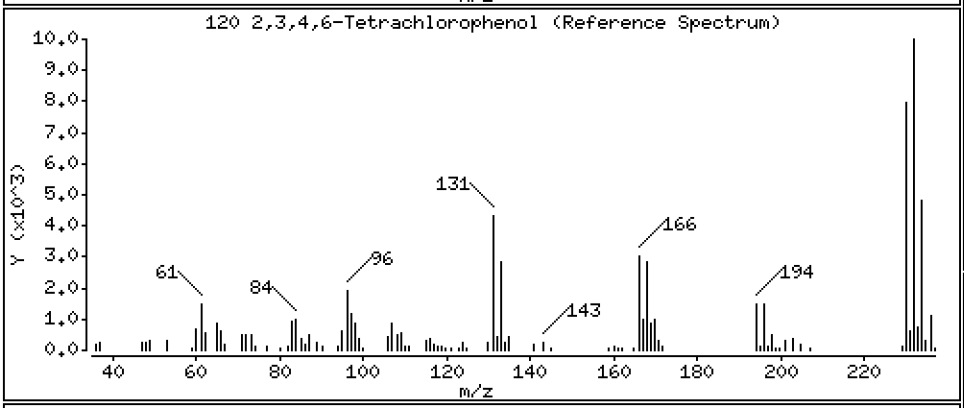
Column diameter: 0.25

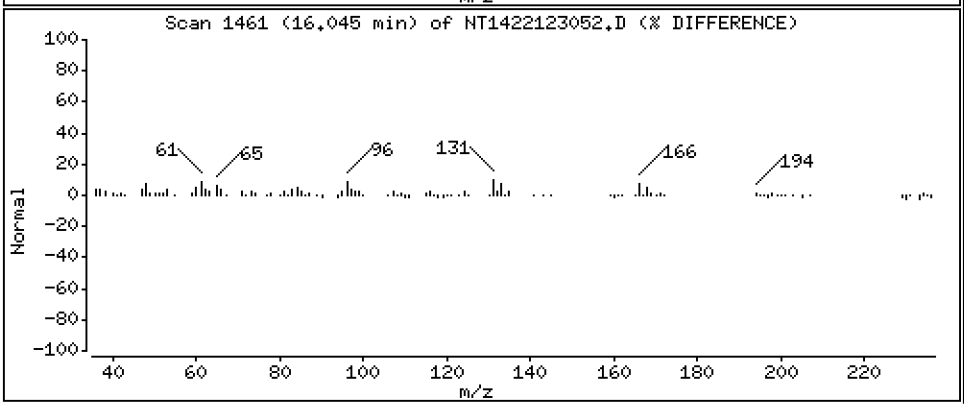
120 2,3,4,6-Tetrachlorophenol

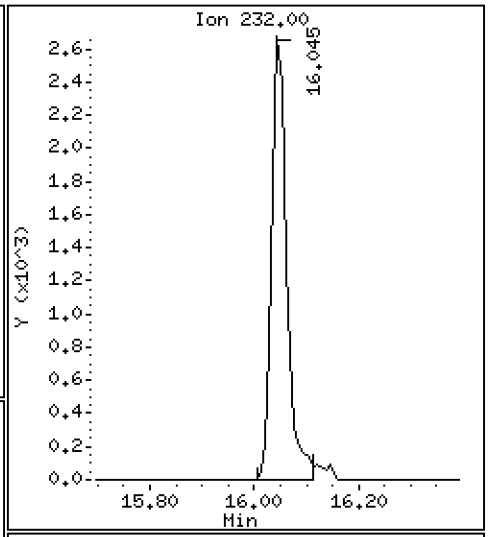
Concentration: 0.3296 ug/mL

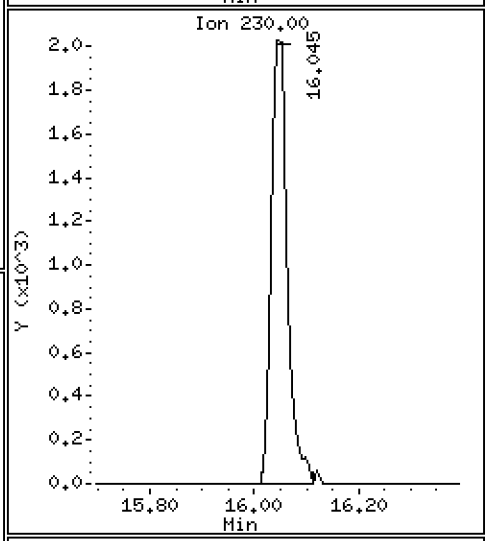


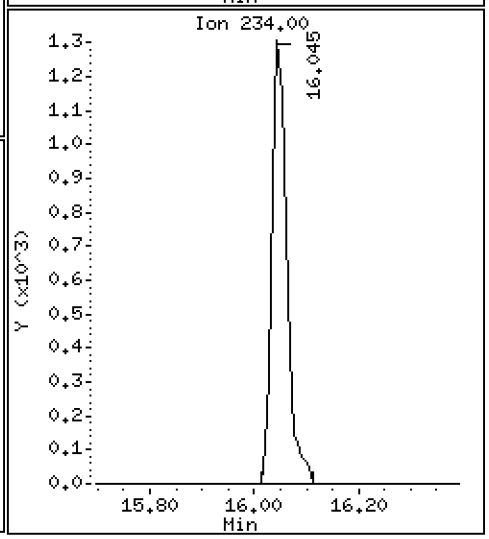












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Lab Smp Id: SKL0356-LCV2
Inj Date : 31-DEC-2022 15:05 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0356-LCV2
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Meth Date : 04-Jan-2023 08:43 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.927	(0.755)	27373	0.71127	0.7113
$	2 Phenol-d5	99	8.519	8.519	(0.929)	31285	0.65780	0.6578
	3 Phenol	94	8.542	8.542	(0.932)	26016	0.48140	0.4814
$	5 2-Chlorophenol-d4	132	8.804	8.804	(0.960)	27396	0.68588	0.6859
	4 Bis(2-Chloroethyl)ether	93	8.704	8.704	(0.949)	18062	0.48518	0.4852
	6 2-Chlorophenol	128	8.828	8.835	(0.963)	22183	0.50569	0.5057
	7 1,3-Dichlorobenzene	146	9.106	9.106	(0.993)	23016	0.49479	0.4948
*	8 1,4-Dichlorobenzene-d4	152	9.168	9.168	(1.000)	120125	4.00000	
	9 1,4-Dichlorobenzene	146	9.199	9.199	(1.003)	21701	0.49244	0.4924
$	10 1,2-Dichlorobenzene-d4	152	9.533	9.533	(1.040)	12849	0.47066	0.4707
	12 1,2-Dichlorobenzene	146	9.556	9.564	(1.042)	20928	0.48424	0.4842
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	9113	0.37879	0.3788
	14 2,2'-oxybis(1-Chloropropane)	121	9.742	9.743	(1.063)	5781	0.46137	0.4614(M)
	13 2-Methylphenol	108	9.665	9.665	(1.054)	18978	0.48328	0.4833
	17 Hexachloroethane	117	10.162	10.162	(1.108)	6042	0.37278	0.3728
	16 N-Nitroso-di-n-propylamine	70	9.999	9.999	(1.091)	11134	0.46544	0.4654
	15 4-Methylphenol	108	9.936	9.937	(1.084)	19666	0.47473	0.4747
$	18 Nitrobenzene-d5	82	10.262	10.270	(0.879)	16741	0.45978	0.4598
	19 Nitrobenzene	77	10.301	10.301	(0.882)	16782	0.46409	0.4641
	20 Isophorone	82	10.751	10.759	(0.921)	19898	0.43175	0.4317
	21 2-Nitrophenol	139	10.938	10.938	(0.937)	10095	0.45609	0.4561
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	37295	0.98819	0.9882
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.958)	17353	0.48401	0.4840
	24 Benzoic acid	105	11.093	11.201	(0.950)	7598	0.33063	0.3306
	25 2,4-Dichlorophenol	162	11.403	11.403	(0.977)	31564	0.99218	0.9922
	26 1,2,4-Trichlorobenzene	180	11.588	11.589	(0.993)	16567	0.48162	0.4816
*	27 Naphthalene-d8	136	11.673	11.681	(1.000)	431181	4.00000	
	28 Naphthalene	128	11.712	11.720	(1.003)	51400	0.48439	0.4844
	29 4-Chloroaniline	127	11.843	11.843	(1.015)	38062	0.86979	0.8698
	30 Hexachlorobutadiene	225	12.083	12.083	(1.035)	8038	0.47097	0.4710
	31 4-Chloro-3-methylphenol	107	12.810	12.810	(1.097)	28593	0.95242	0.9524
	32 2-Methylnaphthalene	142	13.120	13.128	(1.124)	36399	0.46764	0.4676
	33 Hexachlorocyclopentadiene	237	13.592	13.592	(0.888)	1798	0.10740	0.1074

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.747	(0.898)	16457	0.89033	0.8903
	35	2,4,5-Trichlorophenol	196	13.824	13.824	(0.903)	19186	0.89935	0.8994
$	36	2-Fluorobiphenyl	172	13.909	13.909	(0.909)	35317	0.47432	0.4743
	37	2-Chloronaphthalene	162	14.118	14.126	(0.922)	30923	0.48818	0.4882
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	15325	0.92024	0.9202
	39	Dimethylphthalate	163	14.807	14.807	(0.967)	29080	0.46562	0.4656
	40	Acenaphthylene	152	14.993	15.000	(0.979)	51393	0.53211	0.5321
	41	2,6-Dinitrotoluene	165	14.938	14.946	(0.976)	12001	0.85147	0.8515
*	42	Acenaphthene-d10	164	15.310	15.318	(1.000)	221457	4.00000	
	43	3-Nitroaniline	138	15.232	15.233	(0.995)	13712	0.80043	0.8004
	44	Acenaphthene	153	15.379	15.379	(1.005)	29746	0.49655	0.4966
	45	2,4-Dinitrophenol	184	15.449	15.441	(1.009)	1736	0.14499	0.1450(M)
	46	Dibenzofuran	168	15.704	15.712	(1.026)	44263	0.49272	0.4927
	47	4-Nitrophenol	109	15.596	15.549	(1.019)	5313	0.64751	0.6475(M)
	48	2,4-Dinitrotoluene	165	15.758	15.758	(1.029)	15060	0.77878	0.7788
	50	Diethylphthalate	149	16.268	16.268	(1.063)	45617	0.53738	0.5374
	49	Fluorene	166	16.423	16.423	(1.073)	46218	0.48362	0.4836
	51	4-Chlorophenyl-phenylether	204	16.407	16.415	(1.072)	21450	0.45846	0.4585
	52	4-Nitroaniline	138	16.508	16.508	(1.078)	16356	0.79260	0.7926
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.608	(0.904)	11325	0.75665	0.7566
	54	N-Nitrosodiphenylamine	169	16.654	16.662	(0.907)	31251	0.51126	0.5113
$	55	2,4,6-Tribromophenol	330	16.963	16.963	(1.108)	5569	0.53587	0.5359
	56	4-Bromophenyl-phenylether	248	17.418	17.418	(0.949)	11348	0.49028	0.4903
	57	Hexachlorobenzene	284	17.742	17.742	(0.966)	12447	0.49003	0.4900
	58	Pentachlorophenol	266	18.098	18.098	(0.986)	2476	0.22496	0.2250(M)
*	59	Phenanthrene-d10	188	18.361	18.369	(1.000)	356219	4.00000	
	60	Phenanthrene	178	18.408	18.415	(1.003)	45378	0.48858	0.4886
	61	Anthracene	178	18.500	18.508	(1.008)	41525	0.46834	0.4683
	62	Carbazole	167	18.833	18.833	(1.026)	39496	0.46078	0.4608
	63	Di-n-butylphthalate	149	19.622	19.622	(1.069)	41551	0.42863	0.4286
	64	Fluoranthene	202	20.791	20.798	(0.888)	44087	0.46433	0.4643
	65	Pyrene	202	21.216	21.224	(0.906)	46707	0.46787	0.4679
$	66	Terphenyl-d14	244	21.495	21.495	(0.918)	32135	0.45398	0.4540
	67	Butylbenzylphthalate	149	22.416	22.416	(0.958)	16717	0.44361	0.4436
	68	Benzo(a)anthracene	228	23.376	23.376	(0.999)	43313	0.48487	0.4849
*	69	Chrysene-d12	240	23.407	23.407	(1.000)	294883	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.330	(0.996)	40436	1.47869	1.479
	71	Chrysene	228	23.446	23.454	(1.002)	41334	0.48986	0.4899
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.438	(0.959)	22969	0.47045	0.4704
*	134	Di-n-octylphthalate-d4	153	24.429	24.429	(1.000)	439623	4.00000	
	73	Di-n-octylphthalate	149	24.437	24.437	(1.000)	51489	0.48792	0.4879
	74	Benzo(b)fluoranthene	252	25.296	25.304	(0.969)	40786	0.50793	0.5079
	75	Benzo(k)fluoranthene	252	25.343	25.343	(0.971)	42127	0.51546	0.5155
	76	Benzo(a)pyrene	252	25.970	25.978	(0.995)	33479	0.50154	0.5015
*	77	Perylene-d12	264	26.094	26.094	(1.000)	255506	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.853	28.854	(1.106)	24548	0.32350	0.3235
	79	Dibenzo(a,h)anthracene	278	28.869	28.861	(1.106)	21258	0.32967	0.3297
	80	Benzo(g,h,i)perylene	276	29.669	29.669	(1.137)	17003	0.26748	0.2675
	90	N-Nitrosodimethylamine	74	4.726	4.726	(0.516)	26563	1.00220	1.002
	91	Aniline	93	8.611	8.619	(0.939)	51051	0.97019	0.9702
	93	Benzidine	184	21.023	21.015	(0.898)	29087	0.80389	0.8039
	103	Pyridine	79	4.772	4.757	(0.521)	42950	0.50997	0.5100
	105	1-methylnaphthalene	142	13.344	13.352	(1.143)	35633	0.47646	0.4765
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.739	(1.093)	42141	0.51242	0.5124

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.296	25.343	(0.969)	79350	1.02214	1.022
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	5147	0.32962	0.3296

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123052.D
Lab Smp Id: SKL0356-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230B.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 13:17
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134439	67220	268878	120125	-10.65
27 Naphthalene-d8	492388	246194	984776	431181	-12.43
42 Acenaphthene-d10	270679	135340	541358	221457	-18.18
59 Phenanthrene-d10	429616	214808	859232	356219	-17.08
69 Chrysene-d12	376030	188015	752060	294883	-21.58
134 Di-n-octylphthala	634628	317314	1269256	439623	-30.73
77 Perylene-d12	336225	168113	672450	255506	-24.01

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.17	8.67	9.67	9.17	-0.00
27 Naphthalene-d8	11.68	11.18	12.18	11.67	-0.07
42 Acenaphthene-d10	15.32	14.82	15.82	15.31	-0.05
59 Phenanthrene-d10	18.37	17.87	18.87	18.36	-0.04
69 Chrysene-d12	23.41	22.91	23.91	23.41	-0.00
134 Di-n-octylphthala	24.43	23.93	24.93	24.43	-0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	-0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123052.D

Lab ID: SKL0356-LCV2
nt14.i, 20221230B.b\ABN.m,   31-DEC-2022 15:05

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.950	0.959	-0.0087	Benzoic acid

RRT check based on Ccal File: NT1422123049.D

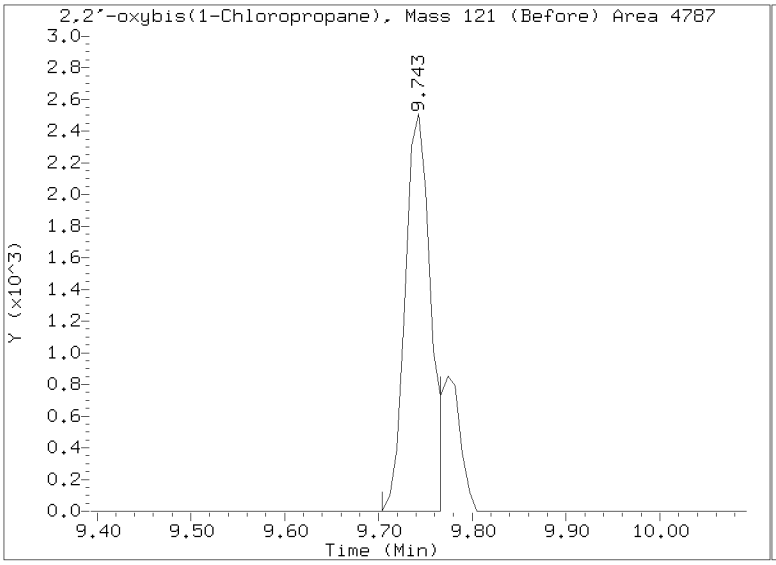
On Column LOD for nt14.i, 20221230B.b\ABN.m, ICAL.sub = 0.0000

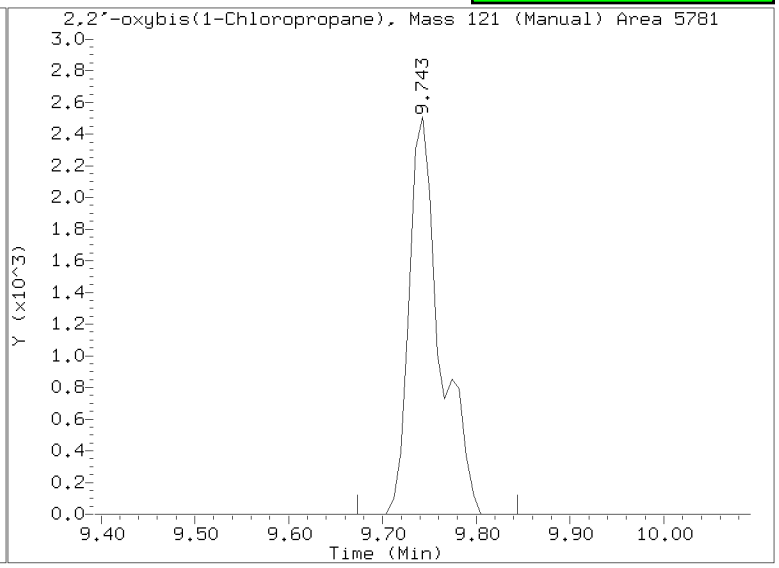
* Only compounds listed in the work order have been verified by the analyst *

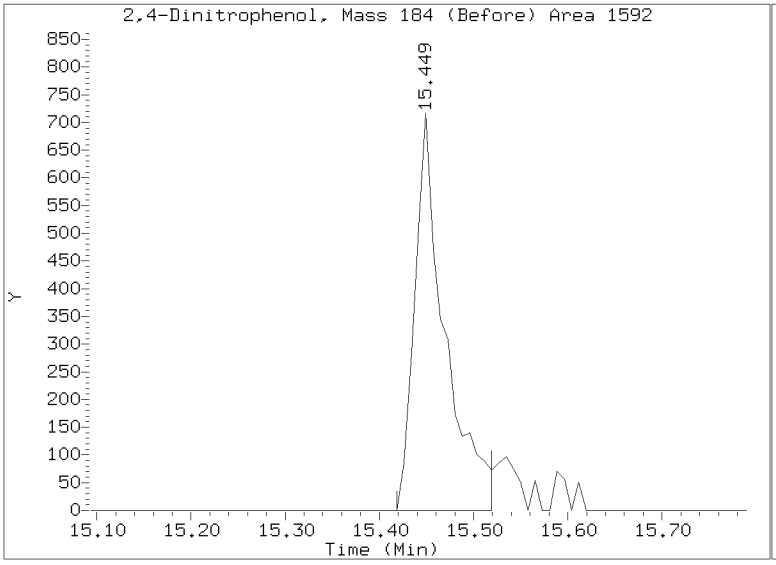
Quant Ion Manual Peak Adjustment Report

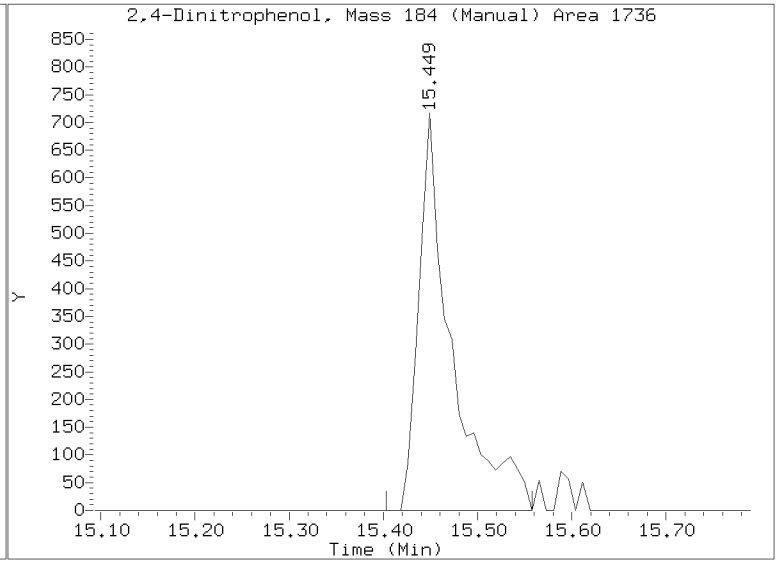
Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

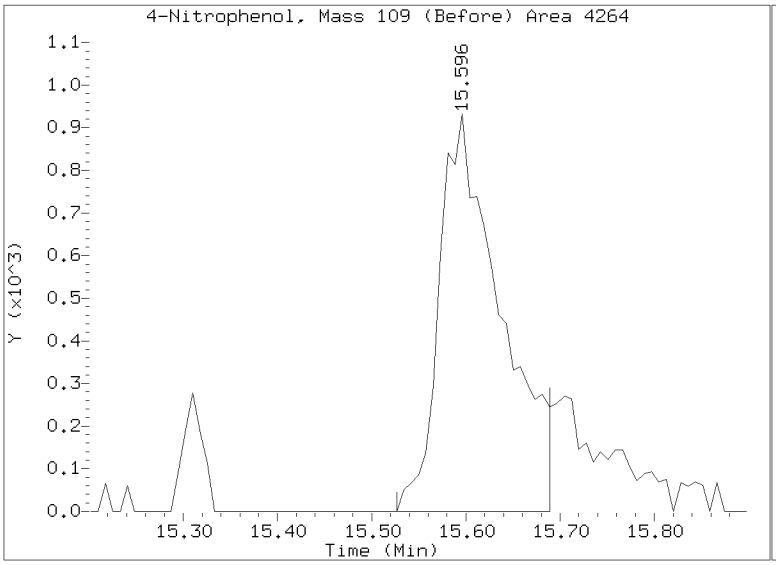
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

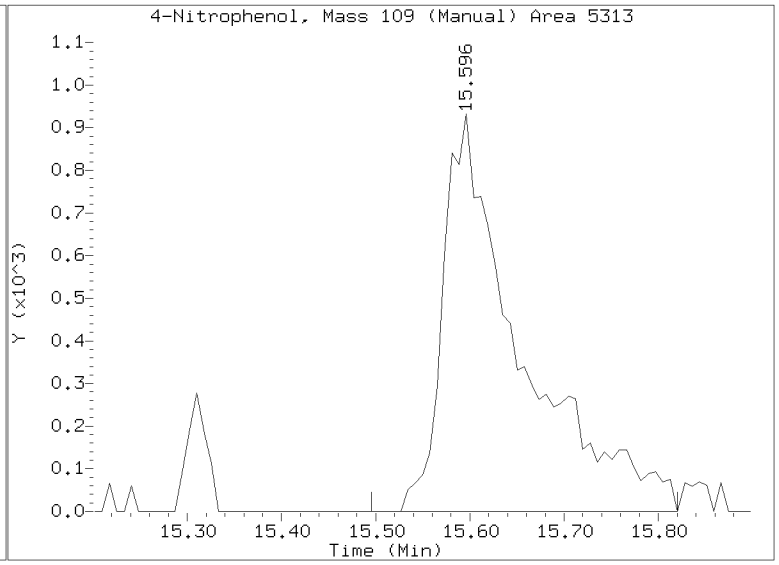








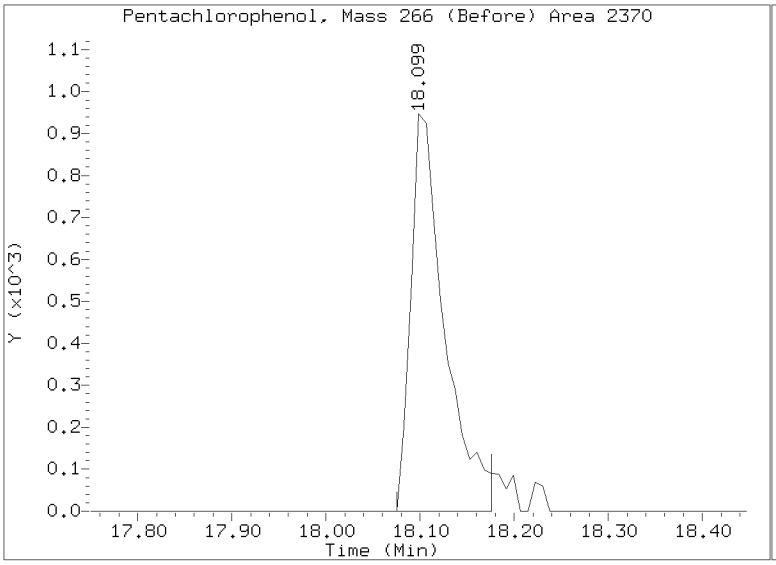


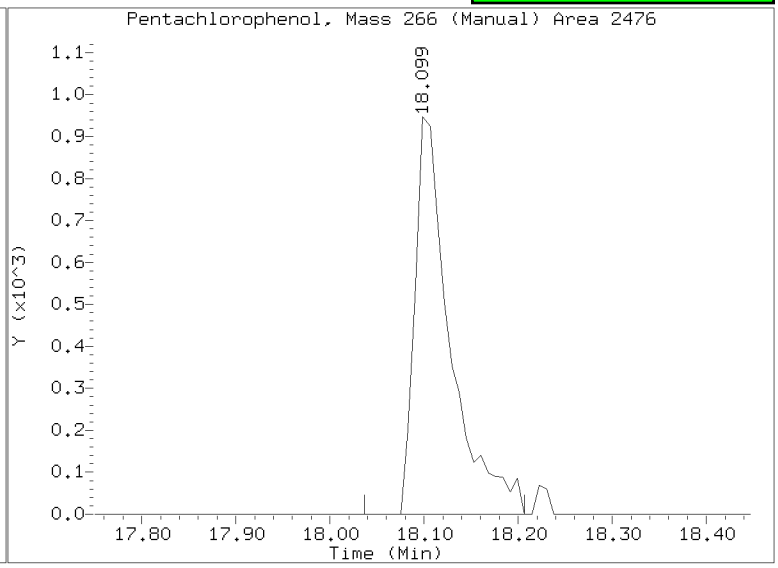


Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20221230B.b/NT1422123052.D
Injection Date: 31-DEC-2022 15:05
Lab ID:SKL0356-LCV2 Client ID:
Report Date: 01/04/2023 12:20

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM





Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.20000	0.2	1.7995200	2.0452070		13.7	+/-50
bis(2-chloroethyl) ether	A	0.20000	0.2	1.2396270	1.4830090		19.6	+/-50
2-Chlorophenol	A	0.20000	0.2	1.4607190	1.7978250		23.1	+/-50
1,3-Dichlorobenzene	A	0.20000	0.2	1.5489360	1.9130870		23.5	+/-50
1,4-Dichlorobenzene	A	0.20000	0.3	1.4674070	1.8357570		25.1	+/-50
1,2-Dichlorobenzene	A	0.20000	0.2	1.4391100	1.7415680		21.0	+/-50
Benzyl Alcohol	A	0.20000	0.2	0.8011083	0.6620672		-17.4	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.20000	0.2	0.4172325	0.5070412		21.5	+/-50
2-Methylphenol	A	0.20000	0.2	1.3076140	1.4430610		10.4	+/-50
Hexachloroethane	A	0.20000	0.2	0.5396966	0.5341616		-1.0	+/-50
N-Nitroso-di-n-Propylamine	A	0.20000	0.2	0.7965591	0.9367527		17.6	+/-50
4-Methylphenol	A	0.20000	0.2	1.3794240	1.4340820		4.0	+/-50
Nitrobenzene	A	0.20000	0.2	0.3354574	0.3740281		11.5	+/-50
Isophorone	A	0.20000	0.2	0.4275424	0.4216317		-1.4	+/-50
2-Nitrophenol	A	0.20000	0.2	0.2064997	0.2168104		5.8	+/-50
2,4-Dimethylphenol	A	0.40000	0.5	0.3501131	0.4017339		14.7	+/-50
Bis(2-Chloroethoxy)methane	A	0.20000	0.2	0.3325989	0.3923643		18.0	+/-50
2,4-Dichlorophenol	A	0.40000	0.4	0.2951237	0.3025220		2.5	+/-50
1,2,4-Trichlorobenzene	A	0.20000	0.2	0.3191088	0.3830954		20.1	+/-50
Naphthalene	A	0.20000	0.2	0.9843833	1.1590590		17.7	+/-50
Benzoic acid	A	0.80000	0.2	0.1508906	0.0558775		-73.8	+/-50
4-Chloroaniline	A	0.40000	0.4	0.4059568	0.4111538		1.3	+/-50
Hexachlorobutadiene	A	0.20000	0.2	0.1583286	0.1883993		19.0	+/-50
4-Chloro-3-Methylphenol	A	0.40000	0.4	0.2785027	0.3012374		8.2	+/-50
2-Methylnaphthalene	A	0.20000	0.2	0.7220739	0.8194867		13.5	+/-50
Hexachlorocyclopentadiene	A	0.40000	0.04	0.3023695	0.0305562		-89.9	+/-50
2,4,6-Trichlorophenol	A	0.40000	0.3	0.3338641	0.2872967		-13.9	+/-50
2,4,5-Trichlorophenol	A	0.40000	0.4	0.3853234	0.3471848		-9.9	+/-50
2-Chloronaphthalene	A	0.20000	0.2	1.1441150	1.3420240		17.3	+/-50
2-Nitroaniline	A	0.40000	0.4	0.3007956	0.3230435		7.4	+/-50
Acenaphthylene	A	0.20000	0.2	1.7445240	1.9985900		14.6	+/-50
Dimethylphthalate	A	0.20000	0.2	1.1280520	1.2056960		6.9	+/-50
2,6-Dinitrotoluene	A	0.40000	0.4	0.2545771	0.2431273		-4.5	+/-50
Acenaphthene	A	0.20000	0.2	1.0820160	1.2755250		17.9	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	0.40000	0.4	0.3094189	0.2756422		-10.9	+/-50
2,4-Dinitrophenol	A	0.80000	0.0	0.1831718				+/-50
Dibenzofuran	A	0.20000	0.2	1.6225950	1.9513840		20.3	+/-50
4-Nitrophenol	A	0.40000	0.3	0.1384031	0.0992097		-33.0	+/-50
2,4-Dinitrotoluene	A	0.40000	0.3	0.3492859	0.2959151		-15.3	+/-50
Fluorene	A	0.20000	0.2	1.7261350	2.0141620		16.7	+/-50
4-Chlorophenylphenyl ether	A	0.20000	0.2	0.8450792	0.8935724		5.7	+/-50
Diethyl phthalate	A	0.20000	0.3	1.5332690	1.9895800		29.8	+/-50
4-Nitroaniline	A	0.40000	0.4	0.3413732	0.3480173		-6.5	+/-50
4,6-Dinitro-2-methylphenol	A	0.80000	0.09	0.1530278	0.0194293		-88.4	+/-50
N-Nitrosodiphenylamine	A	0.20000	0.3	0.6863845	0.8609555		25.4	+/-50
4-Bromophenyl phenyl ether	A	0.20000	0.2	0.2599074	0.2900591		11.6	+/-50
Hexachlorobenzene	A	0.20000	0.2	0.2852204	0.3377450		18.4	+/-50
Pentachlorophenol	A	0.40000	0.02	0.1128364	0.0062489		-94.9	+/-50
Phenanthrene	A	0.20000	0.2	1.0429190	1.2493590		19.8	+/-50
Anthracene	A	0.20000	0.2	0.9956202	1.1560500		16.1	+/-50
Carbazole	A	0.20000	0.2	0.9624945	1.1107300		15.4	+/-50
Di-n-Butylphthalate	A	0.20000	0.2	1.0394700	1.2348590		13.6	+/-50
Fluoranthene	A	0.20000	0.2	1.2879410	1.5332460		19.0	+/-50
Pyrene	A	0.20000	0.2	1.3541610	1.5802070		16.7	+/-50
Butylbenzylphthalate	A	0.20000	0.3	0.4650792	0.6893559		34.9	+/-50
Benzo(a)anthracene	A	0.20000	0.3	1.2117210	1.5989020		32.0	+/-50
3,3'-Dichlorobenzidine	A	0.60000	0.8	0.3709370	0.5065069		36.5	+/-50
Chrysene	A	0.20000	0.2	1.1445730	1.3899140		21.4	+/-50
bis(2-Ethylhexyl)phthalate	A	0.20000	0.3	0.4442323	0.5799243		30.5	+/-50
Di-n-Octylphthalate	A	0.20000	0.2	0.9601702	1.1806330		23.0	+/-50
Benzofluoranthenes, Total	A	0.40000	0.5	1.2153330	1.5993190		31.6	+/-50
Benzo(a)pyrene	A	0.20000	0.3	1.0450150	1.3188060		26.2	+/-50
Indeno(1,2,3-cd)pyrene	A	0.20000	0.1	1.1879490	0.8873690		-25.3	+/-50
Dibenzo(a,h)anthracene	A	0.20000	0.2	1.0094890	0.7614674		-24.6	+/-50
Benzo(g,h,i)perylene	A	0.20000	0.1	0.9951726	0.5264336		-47.1	+/-50
1-Methylnaphthalene	A	0.20000	0.2	0.6937882	0.7885066		13.7	+/-50
2-Fluorophenol	A	0.30000	0.357	1.2814900	1.5232620		18.9	+/-50
Phenol-d5	A	0.30000	0.312	1.5836890	1.6462810		4.0	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123067.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV3	Injection Time:	00:06
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.30000	0.337	1.3300510	1.4929650		12.3	+/-50
1,2-Dichlorobenzene-d4	A	0.20000	0.240	0.9090592	1.0925120		20.2	+/-50
Nitrobenzene-d5	A	0.20000	0.227	0.3377760	0.3825413		13.3	+/-50
2-Fluorobiphenyl	A	0.20000	0.223	1.3448860	1.4982320		11.4	+/-50
2,4,6-Tribromophenol	A	0.30000	0.225	0.1844845	0.1403103		-25.1	+/-50
p-Terphenyl-d14	A	0.20000	0.222	0.9601842	1.0669730		11.1	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Page 1

Date : 01-JAN-2023 00:06

Client ID:

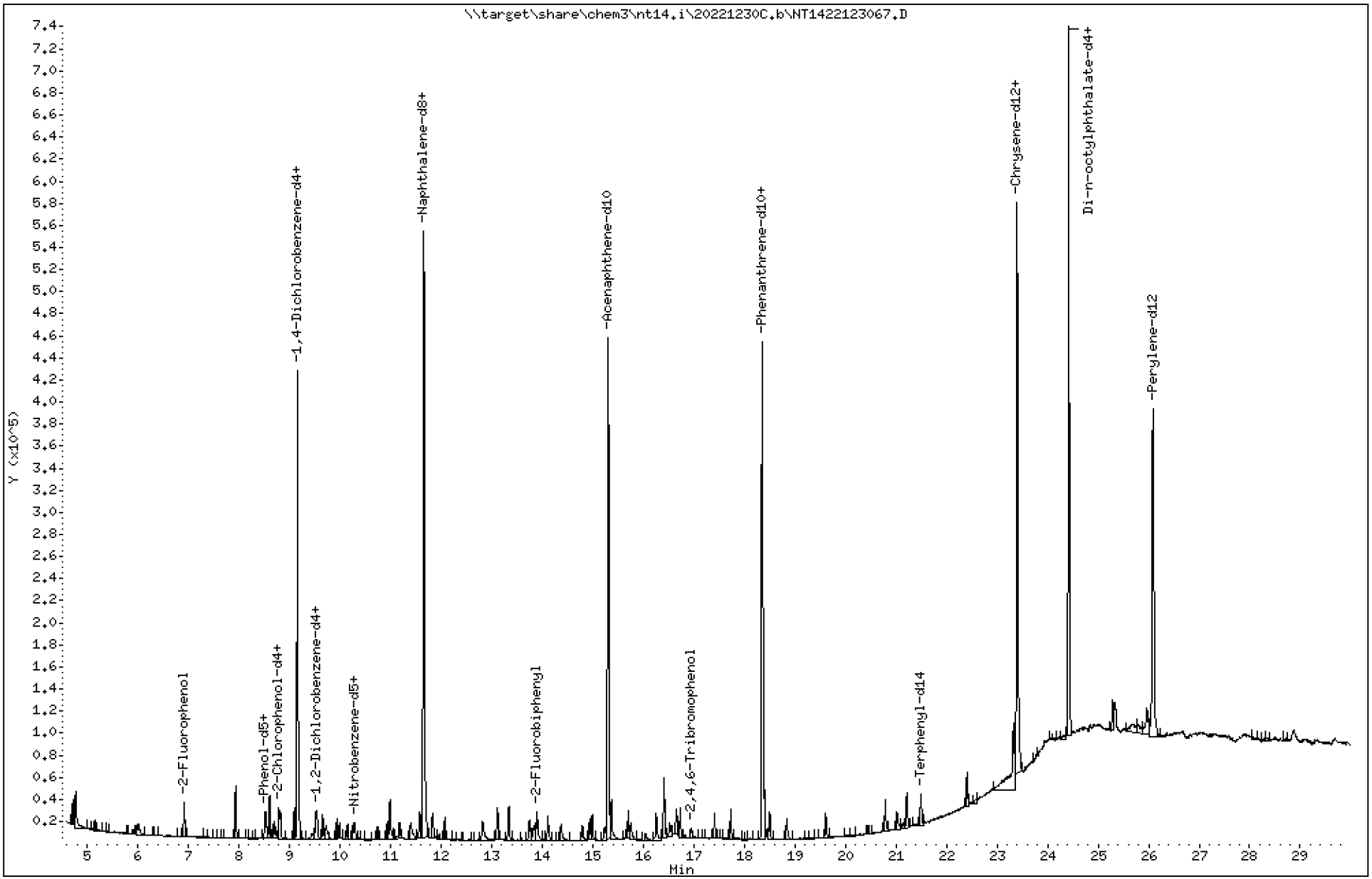
Instrument: nt14.i

Sample Info: SKL0355-LCV3

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 3049 of 5449

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

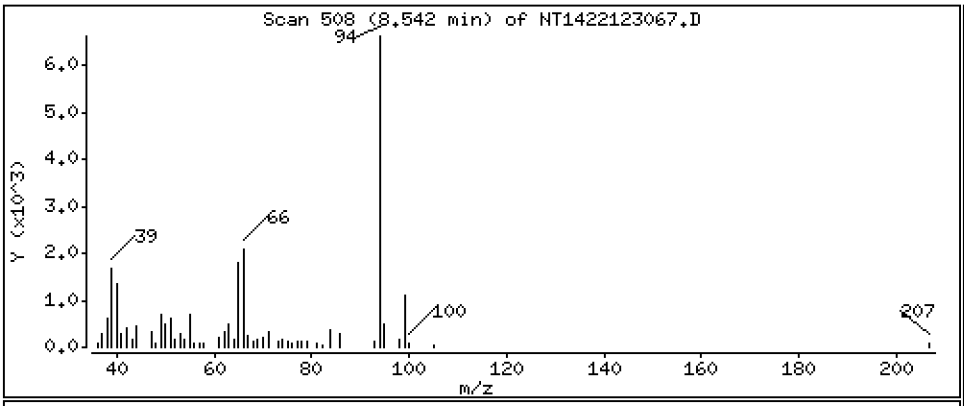
Operator: VTS

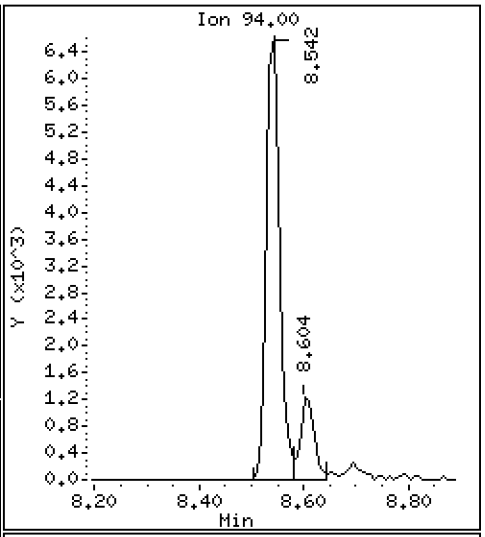
Column phase: ZB-5msi

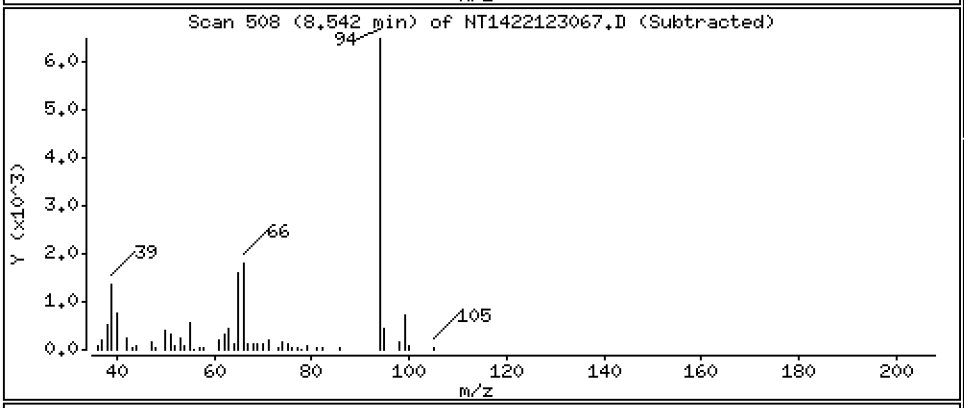
Column diameter: 0.25

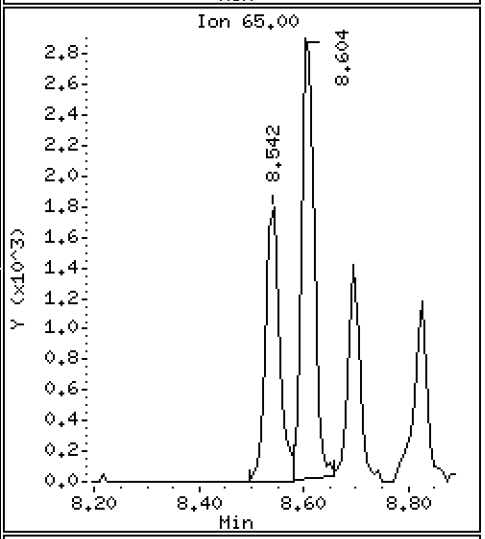
3 Phenol

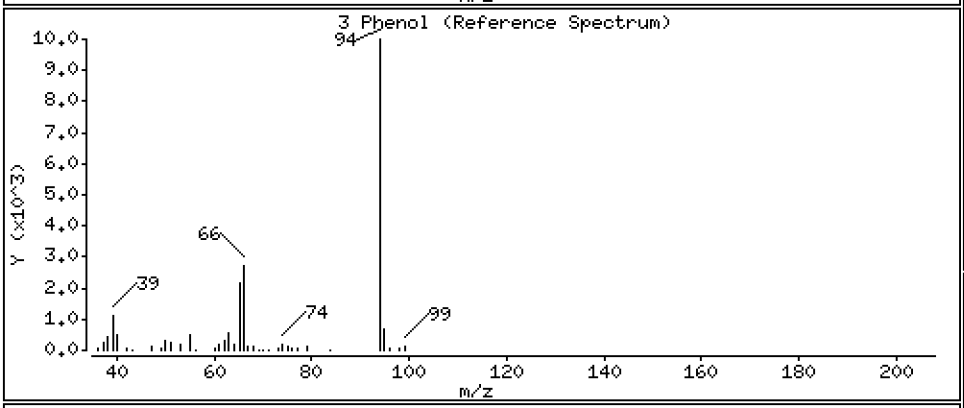
Concentration: 0.2273 ug/mL

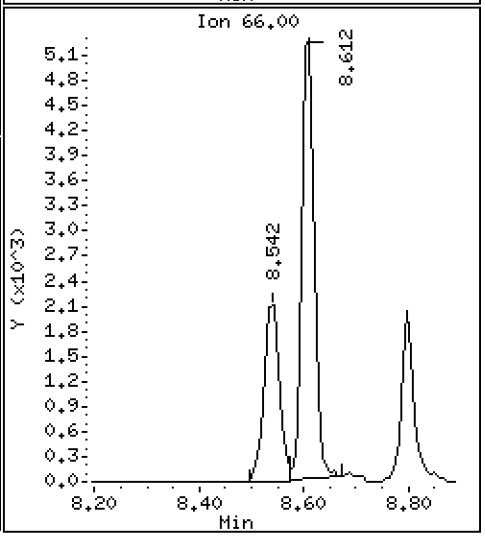


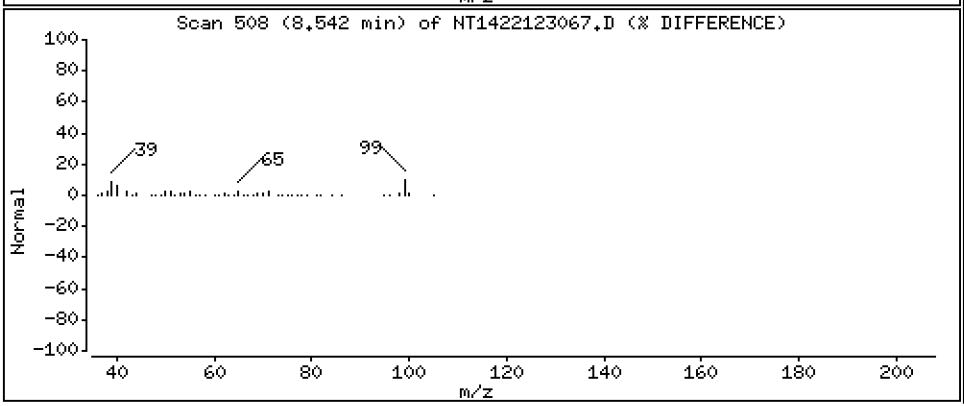












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

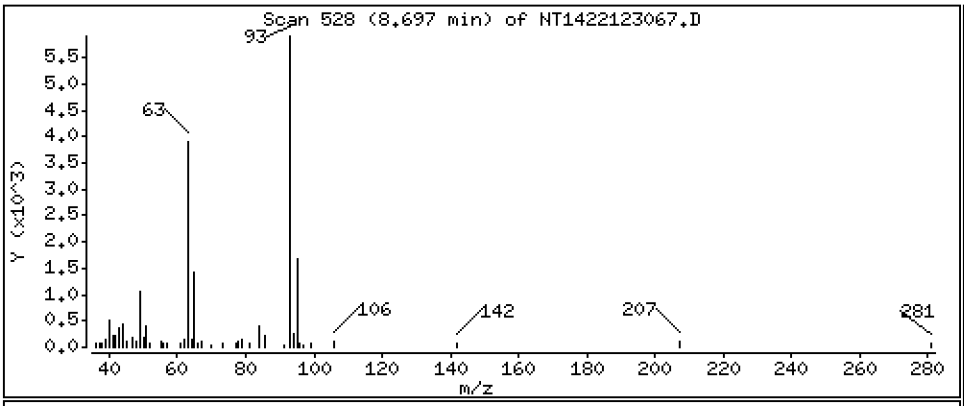
Operator: VTS

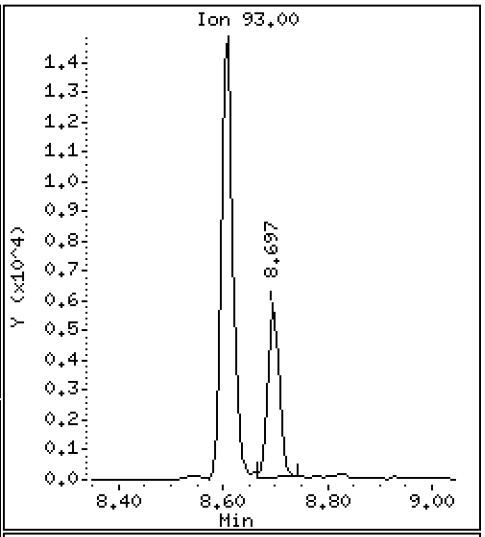
Column phase: ZB-5msi

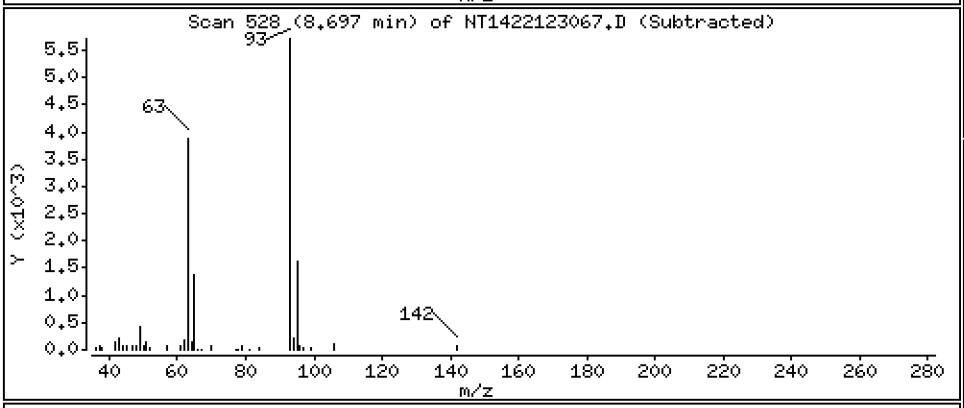
Column diameter: 0.25

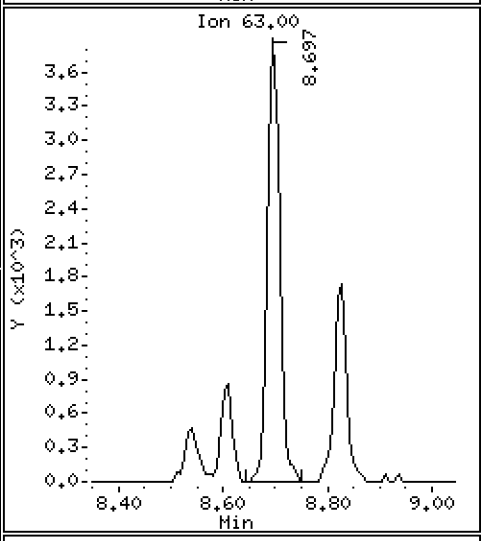
4 Bis(2-Chloroethyl)ether

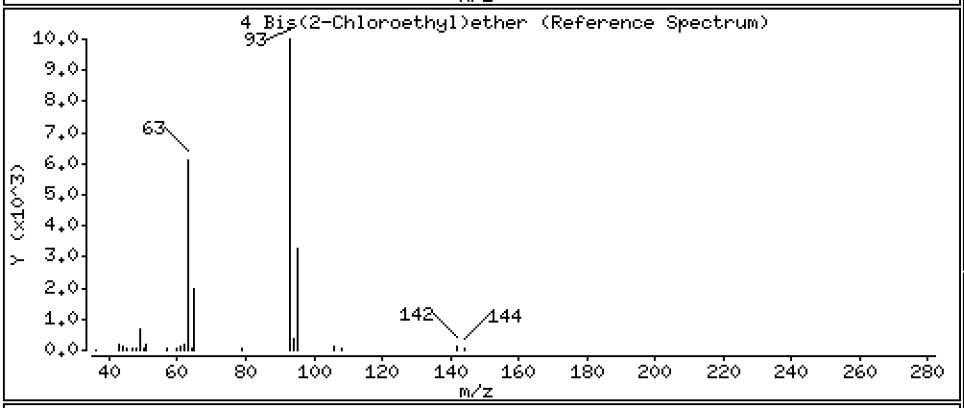
Concentration: 0.2393 ug/mL

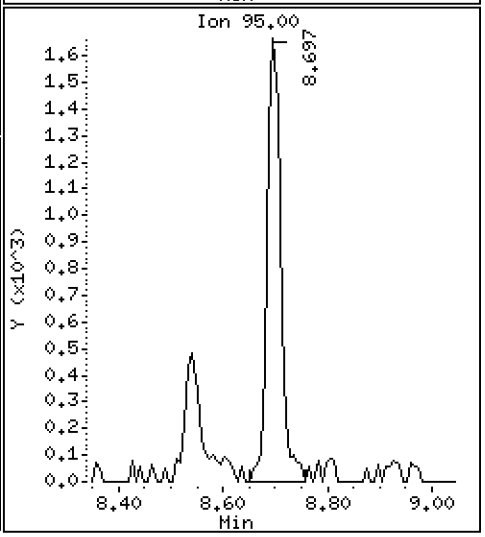


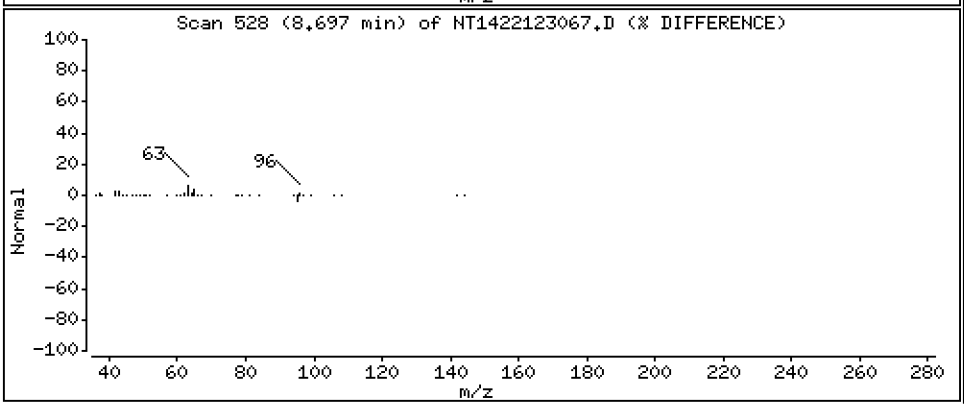












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

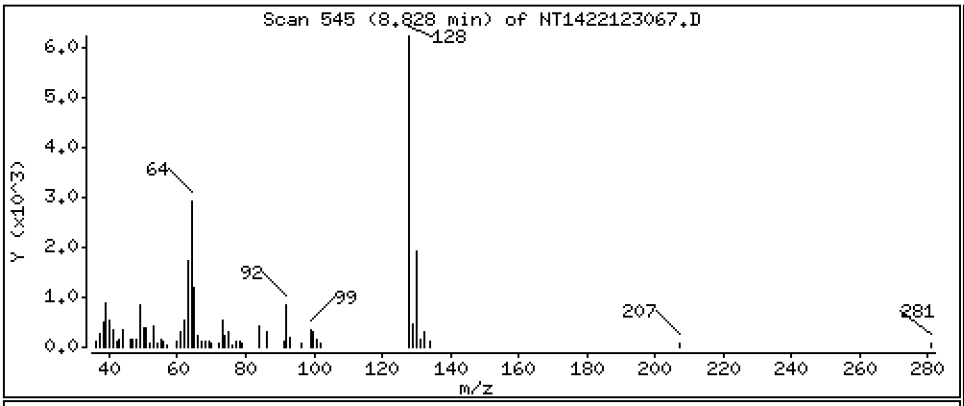
Operator: VTS

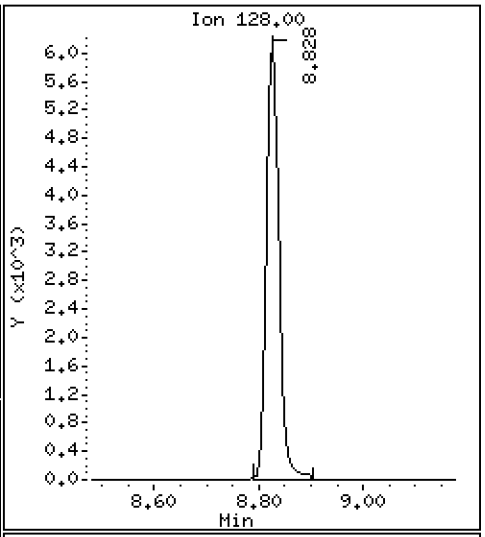
Column phase: ZB-5msi

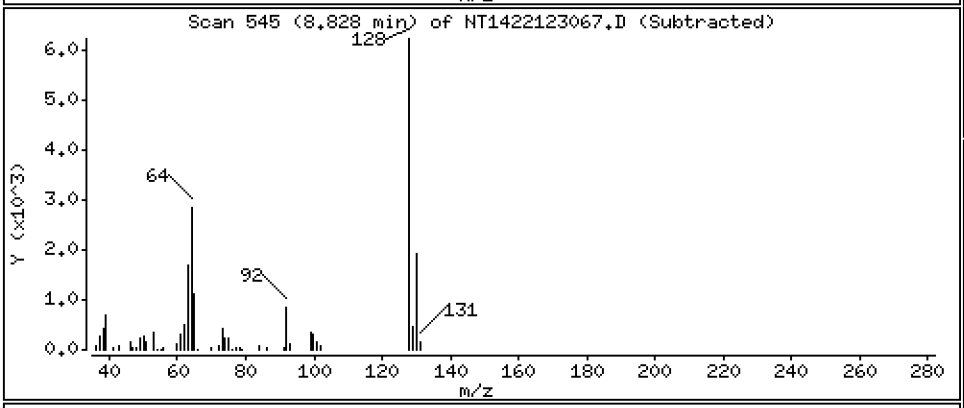
Column diameter: 0.25

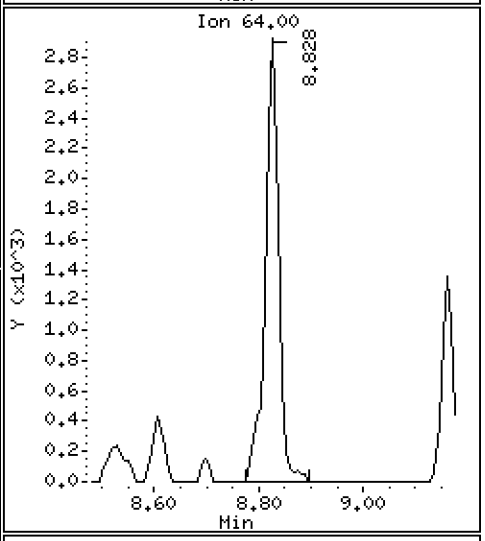
6 2-Chlorophenol

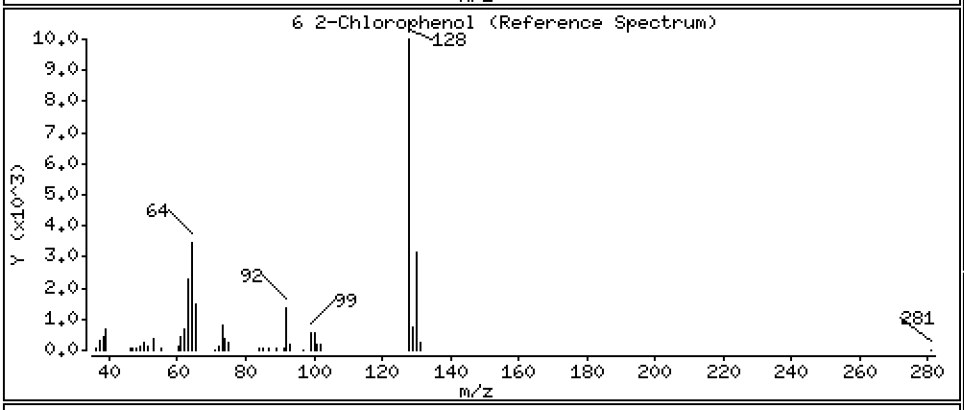
Concentration: 0.2462 ug/mL

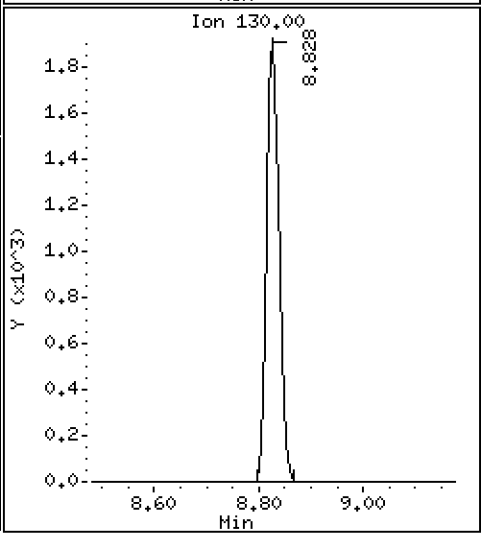


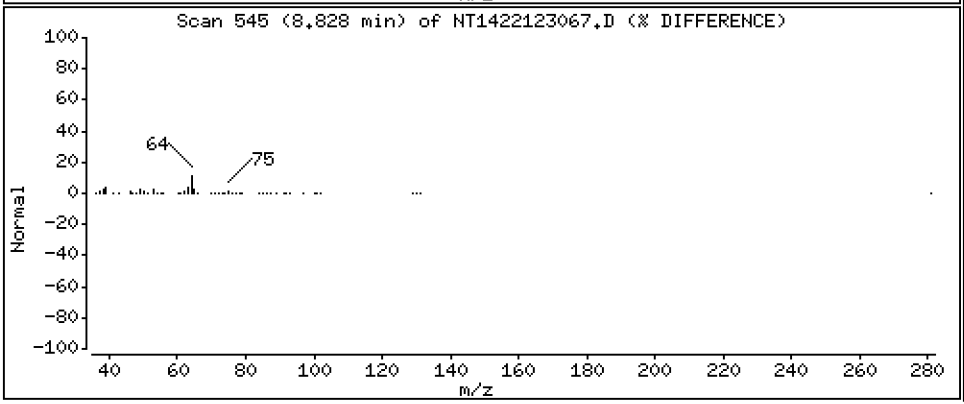












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

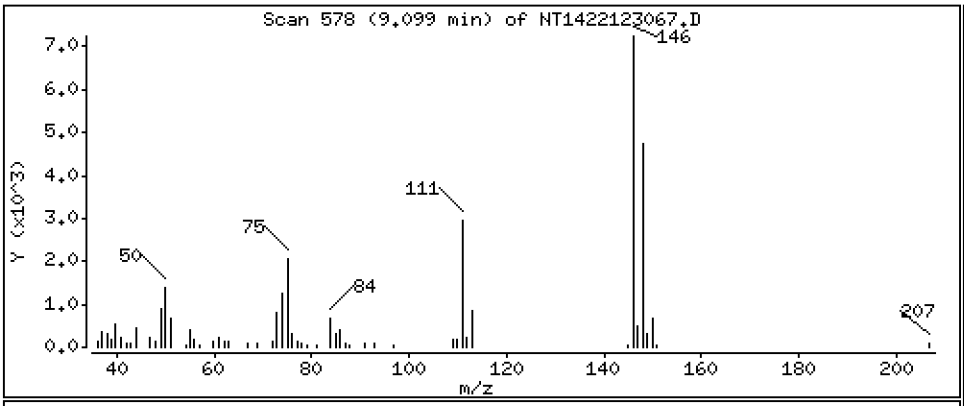
Operator: VTS

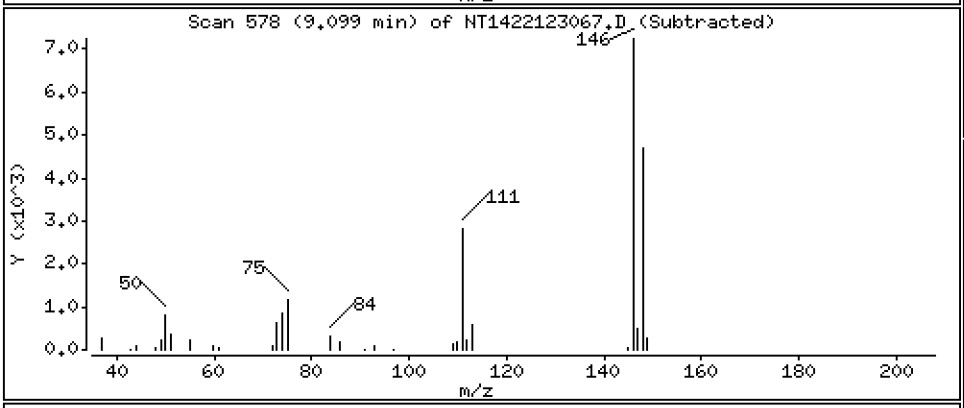
Column phase: ZB-5msi

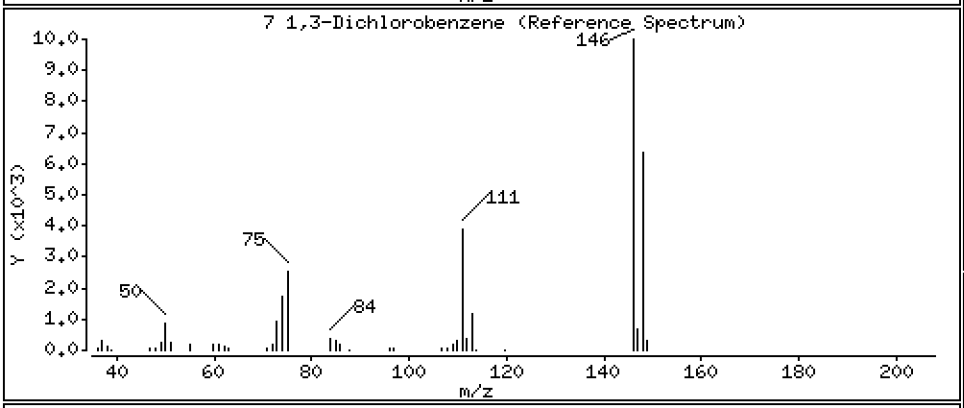
Column diameter: 0.25

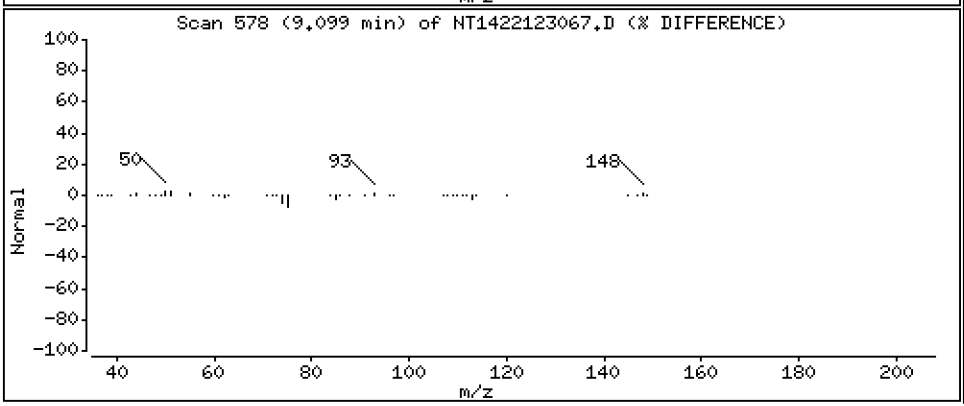
7 1,3-Dichlorobenzene

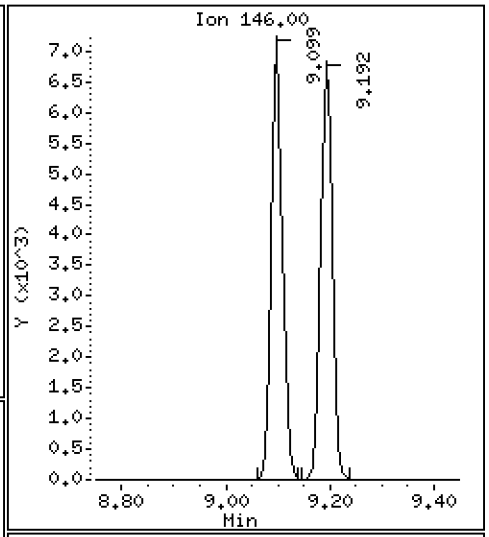
Concentration: 0.2470 ug/mL

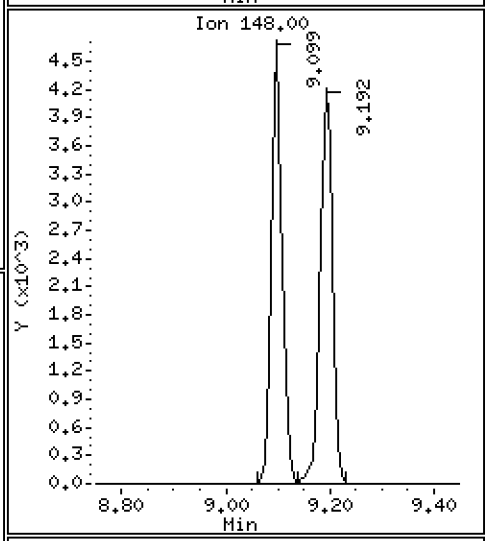


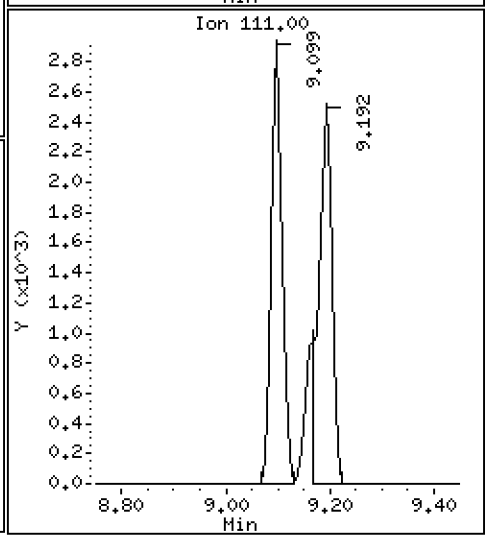












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

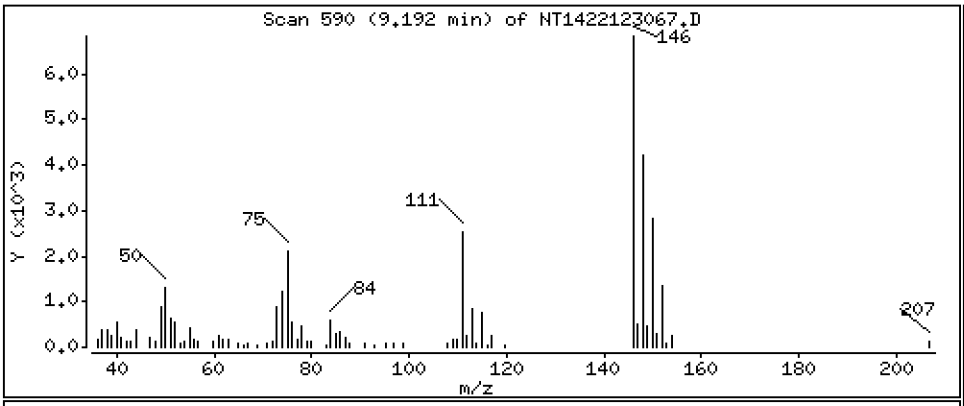
Operator: VTS

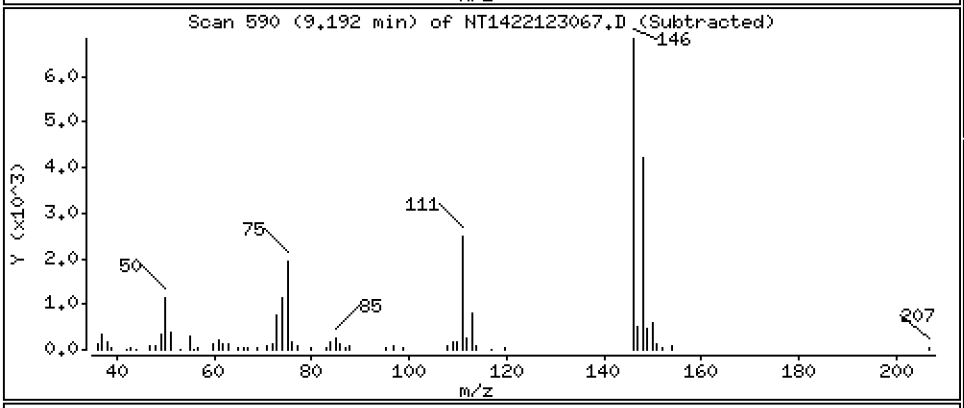
Column phase: ZB-5msi

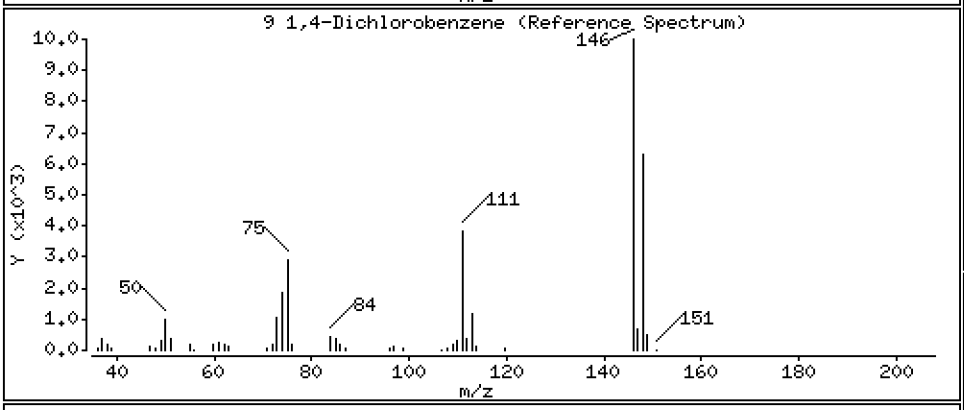
Column diameter: 0.25

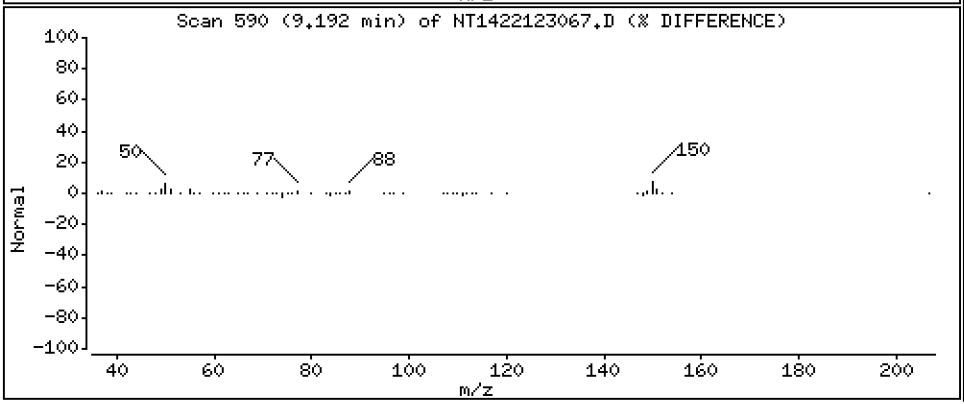
9 1,4-Dichlorobenzene

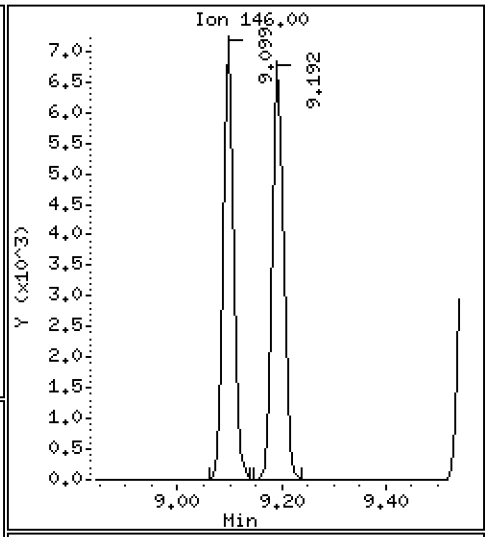
Concentration: 0.2502 ug/mL

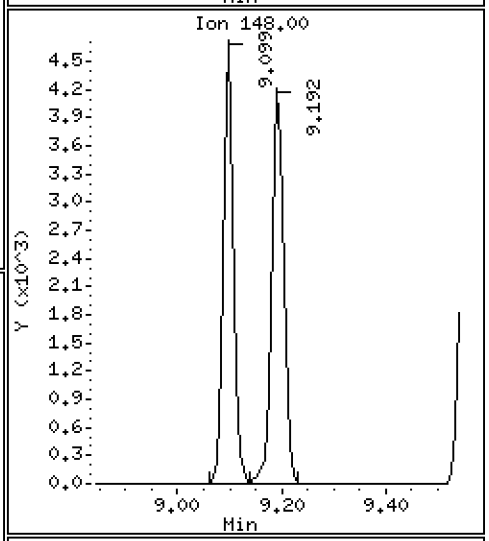


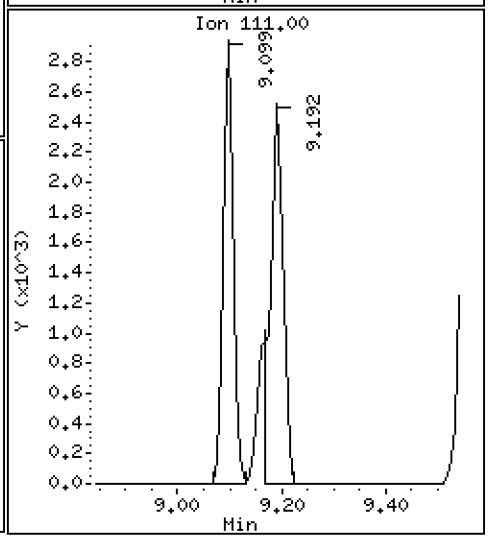












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

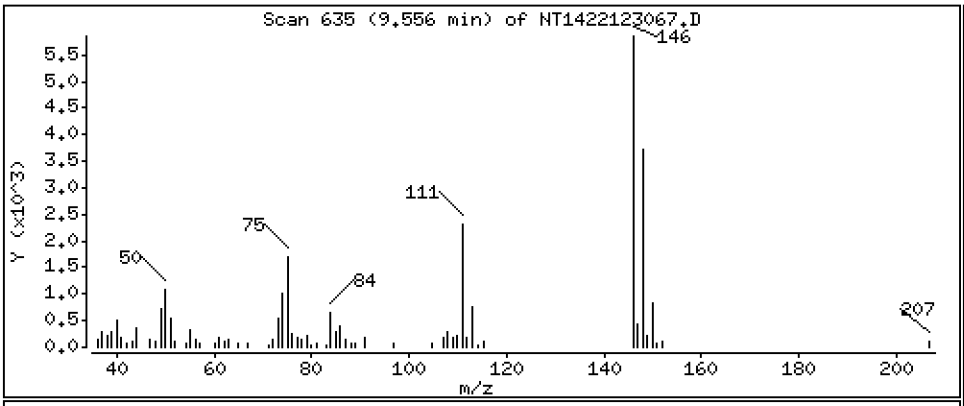
Operator: VTS

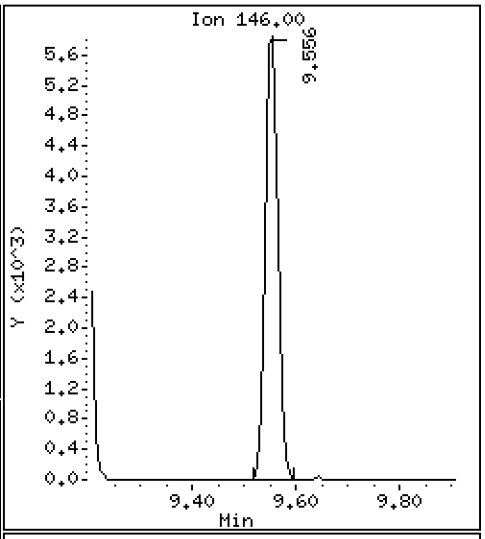
Column phase: ZB-5msi

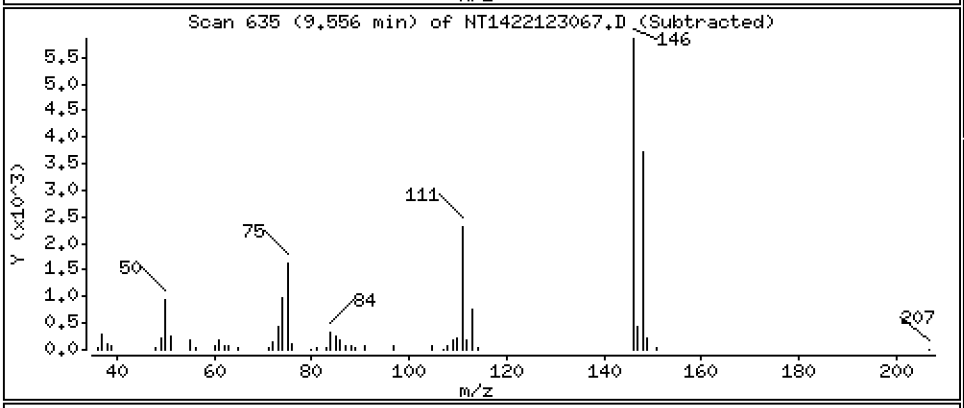
Column diameter: 0.25

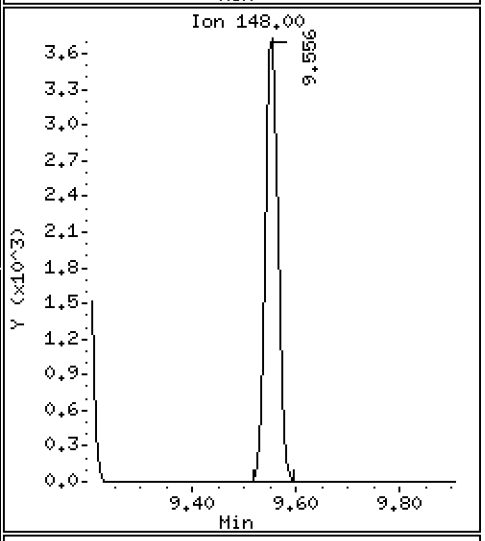
12 1,2-Dichlorobenzene

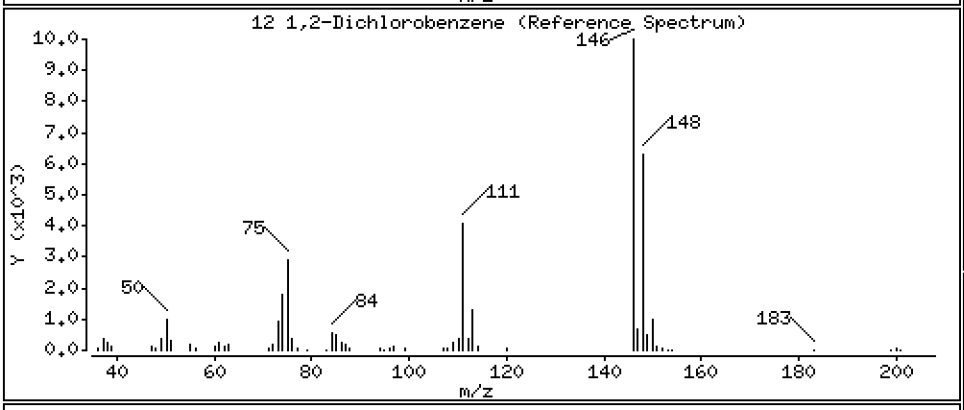
Concentration: 0.2420 ug/mL

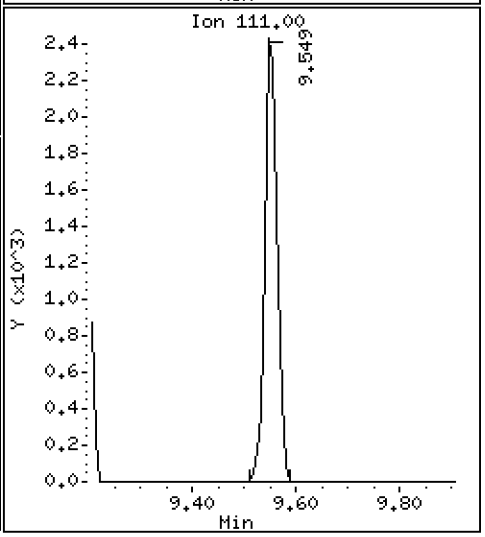


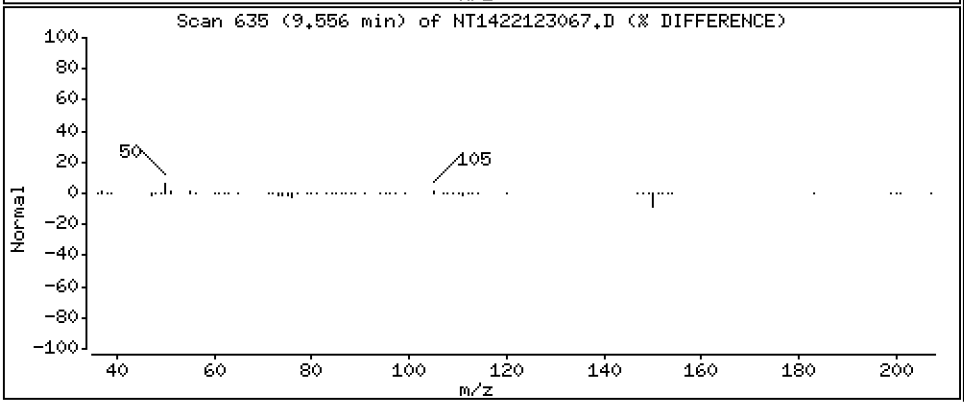












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

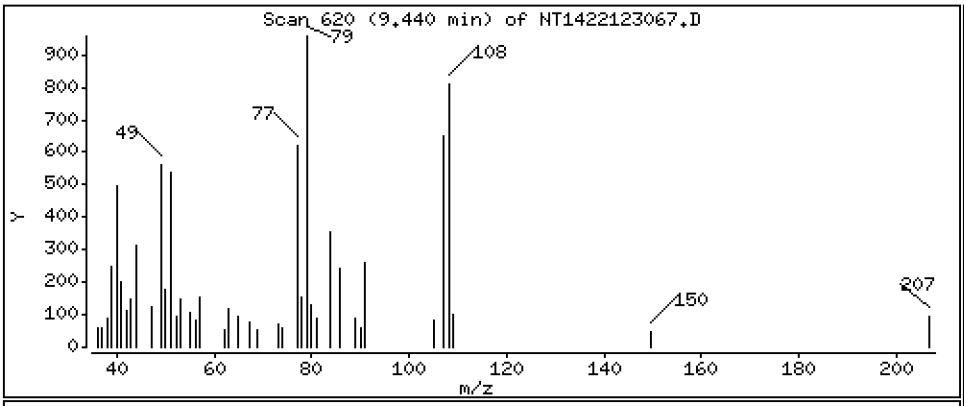
Operator: VTS

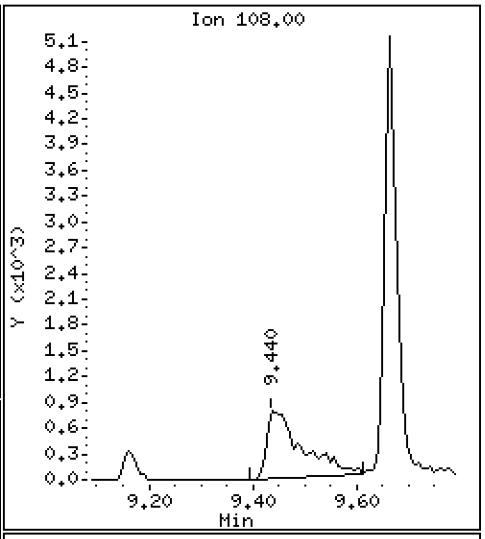
Column phase: ZB-5msi

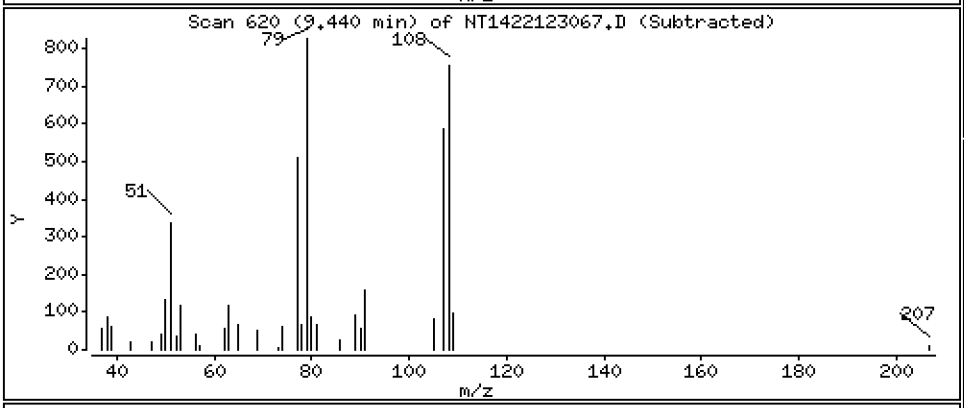
Column diameter: 0.25

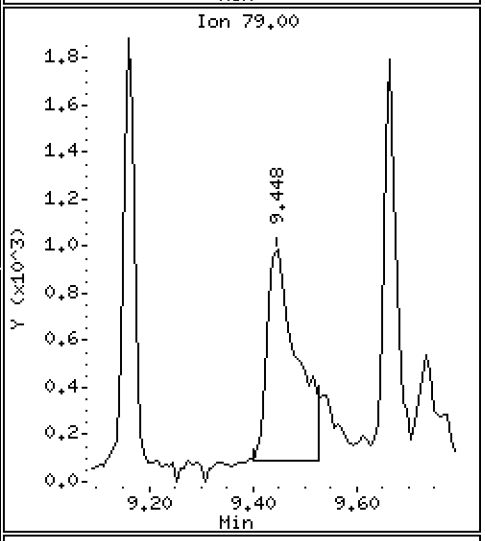
11 Benzyl alcohol

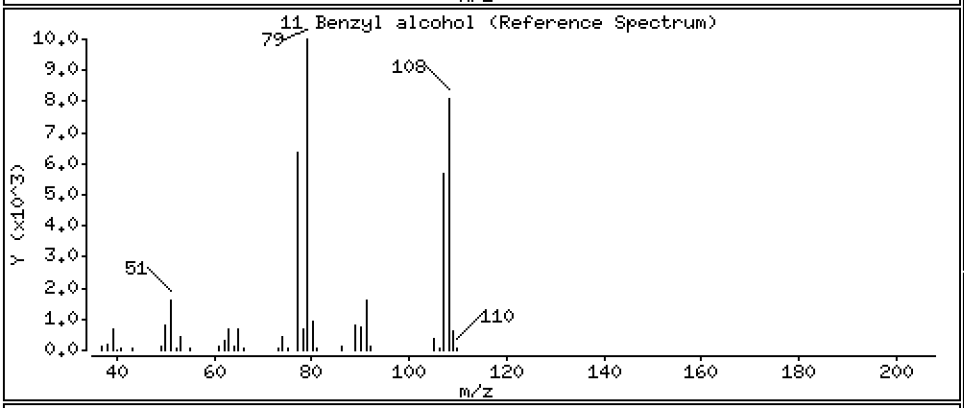
Concentration: 0.1653 ug/mL

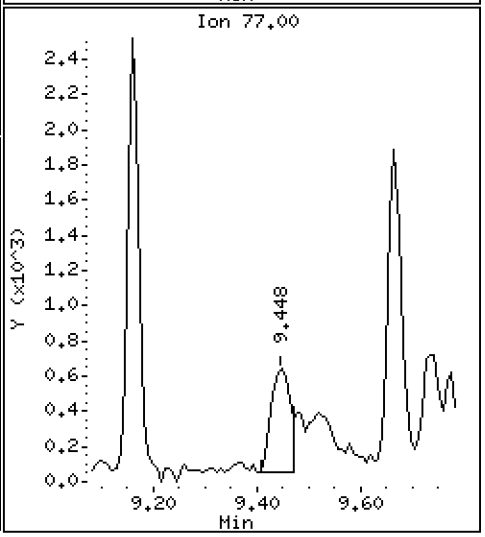


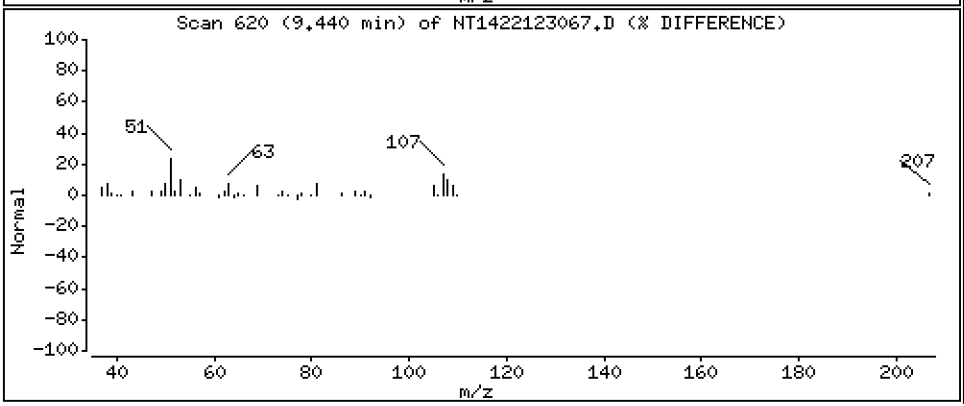












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

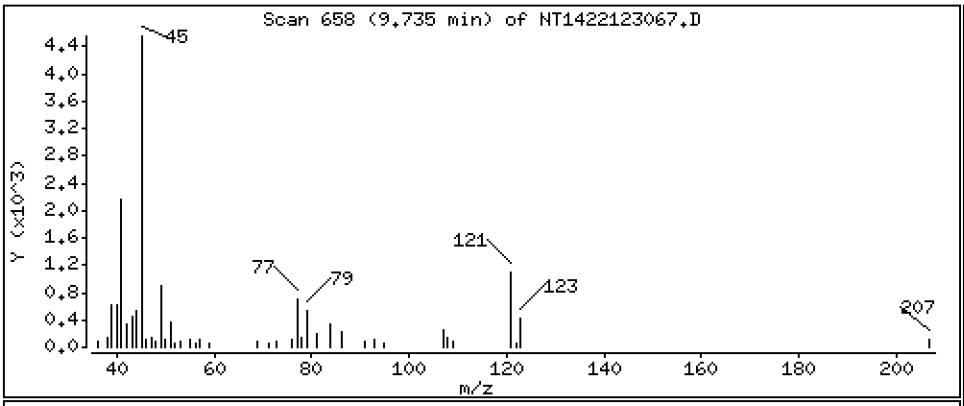
Operator: VTS

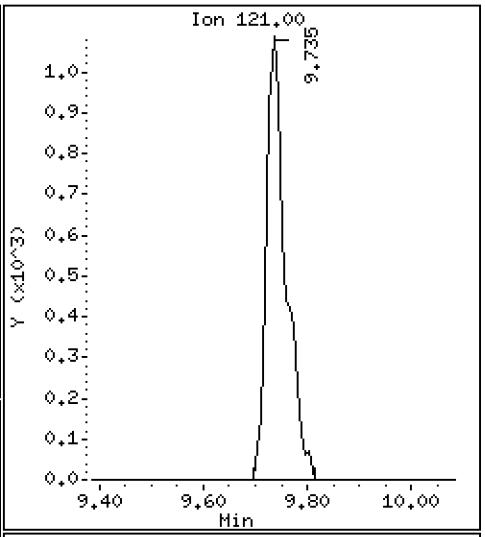
Column phase: ZB-5msi

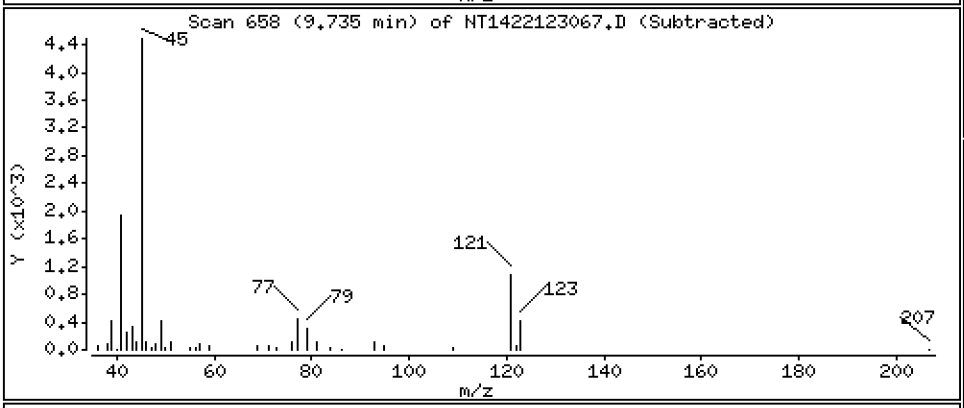
Column diameter: 0.25

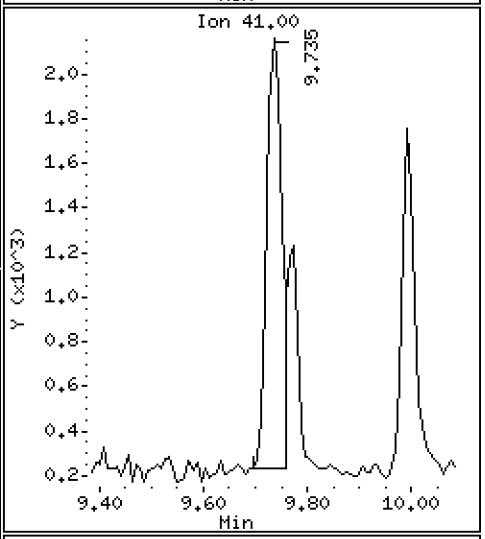
14 2,2'-oxybis(1-Chloropropane)

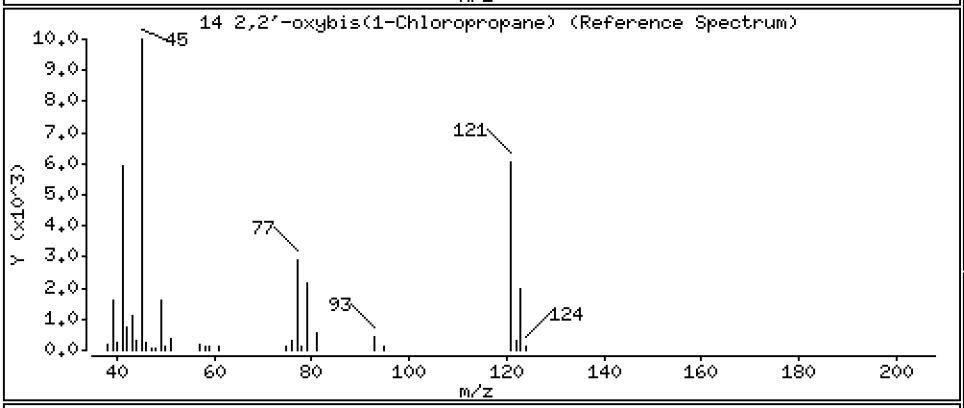
Concentration: 0.2430 ug/mL

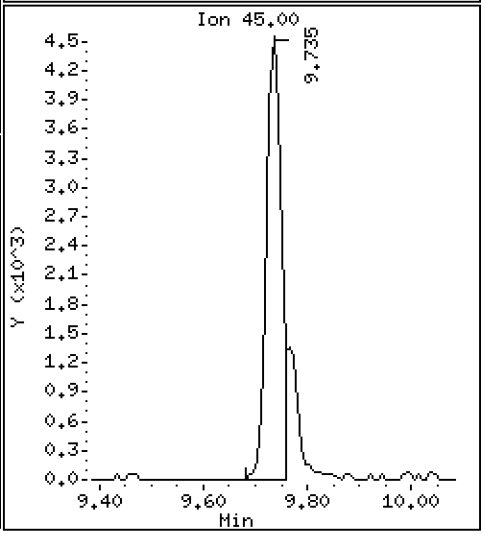


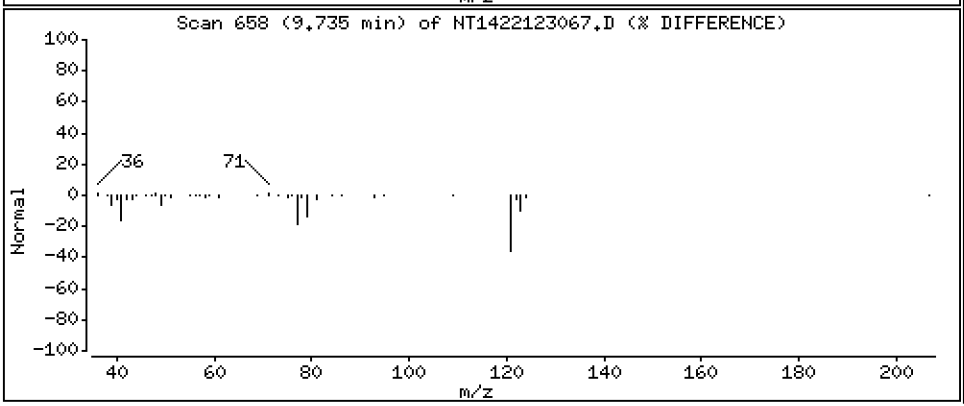












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

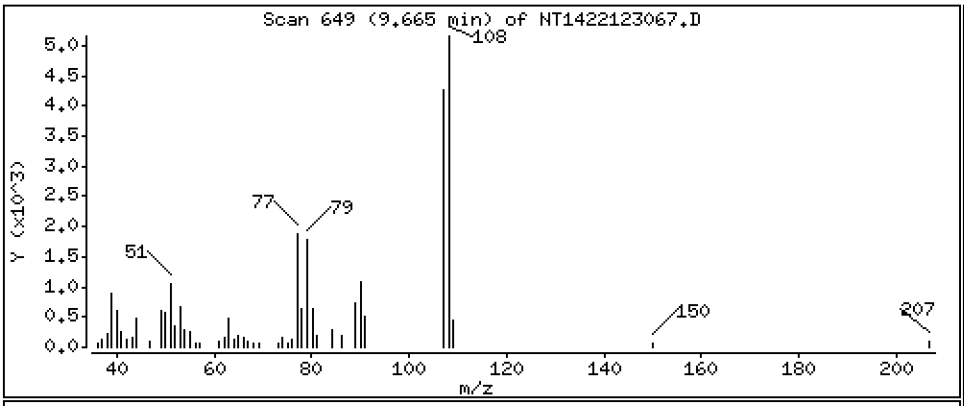
Operator: VTS

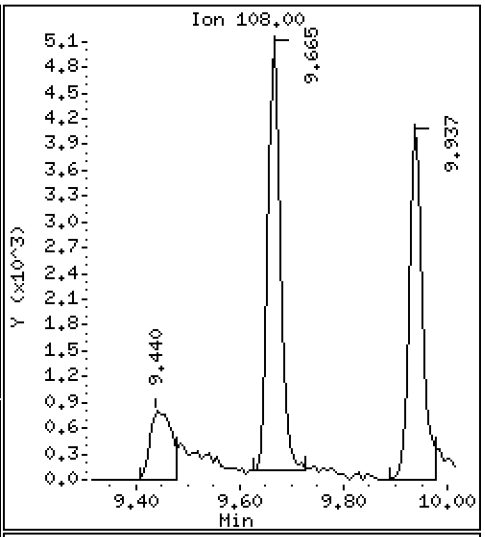
Column phase: ZB-5msi

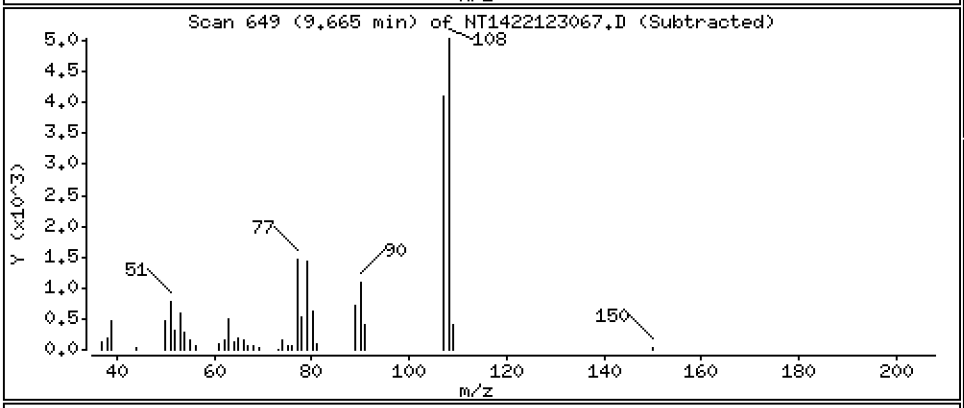
Column diameter: 0.25

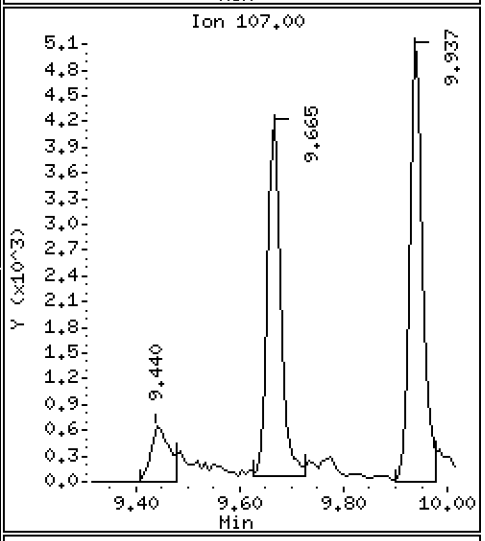
13 2-Methylphenol

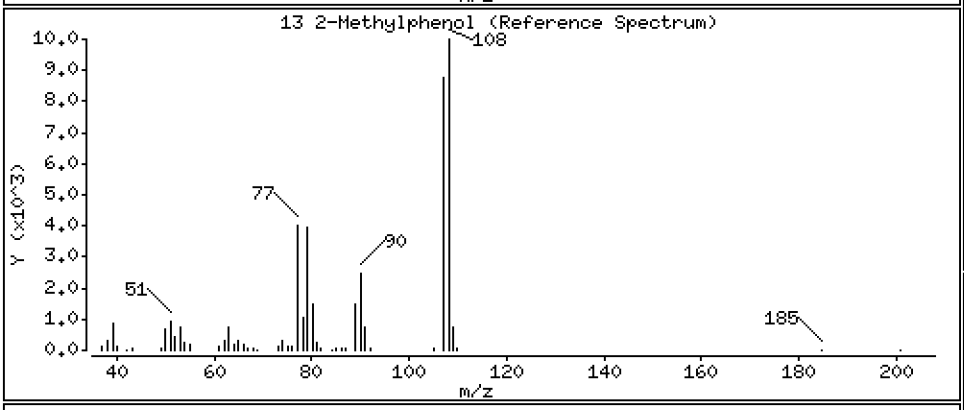
Concentration: 0.2207 ug/mL

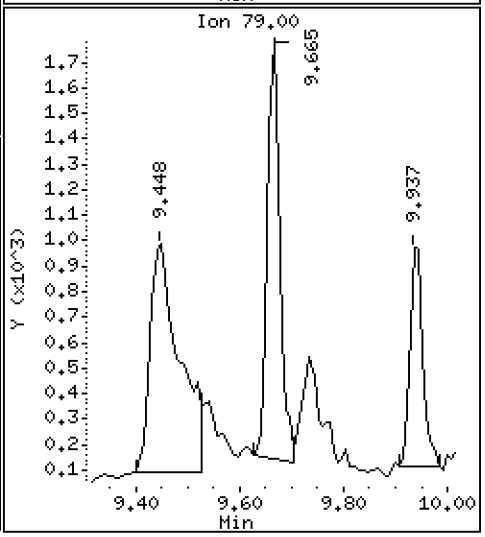


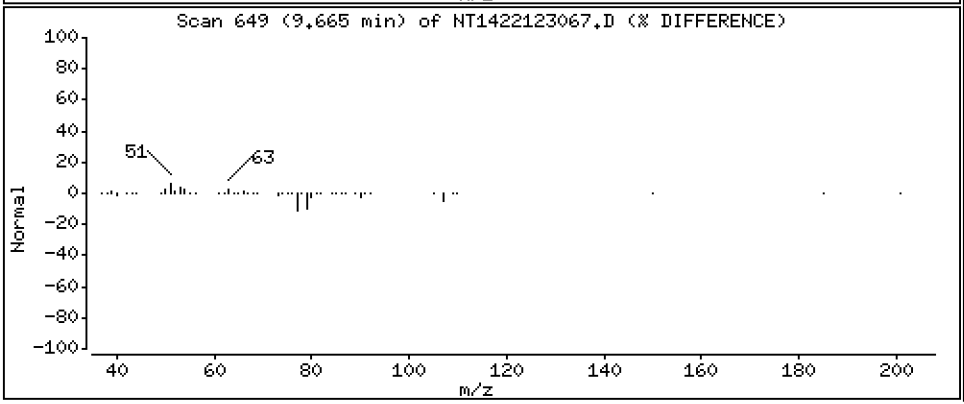












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

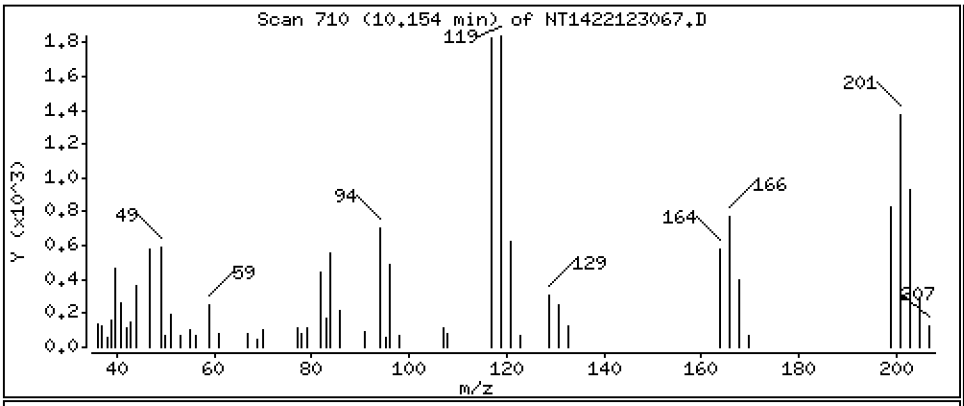
Operator: VTS

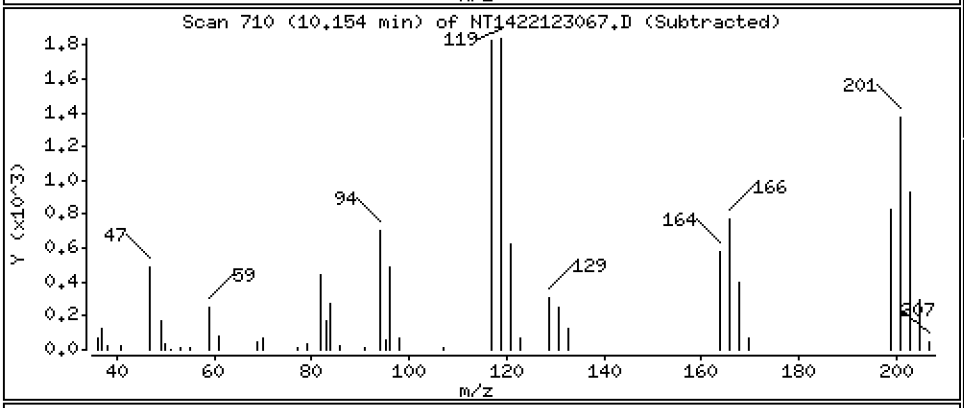
Column phase: ZB-5msi

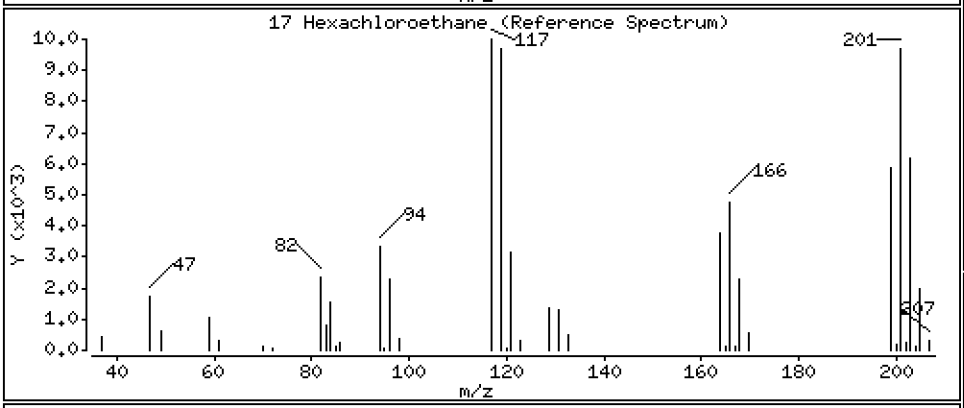
Column diameter: 0.25

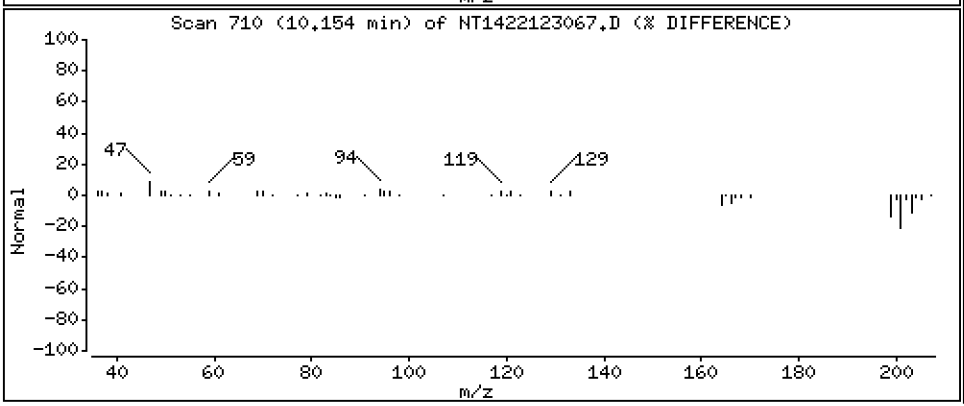
17 Hexachloroethane

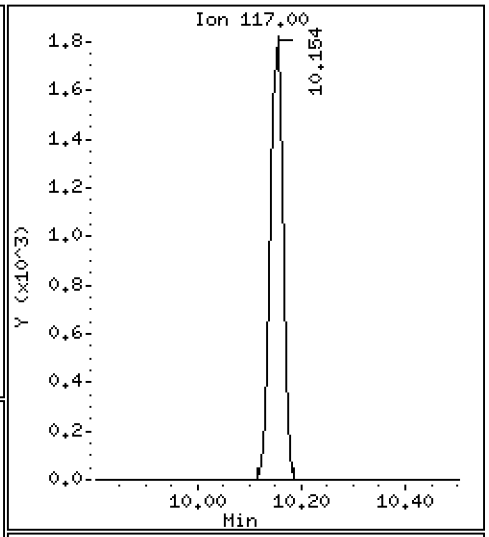
Concentration: 0.1979 ug/mL

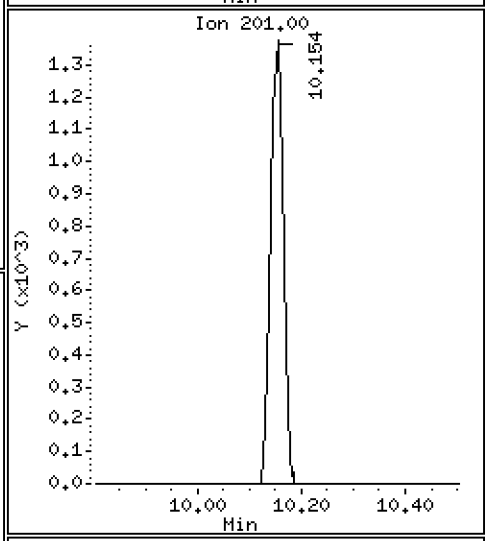


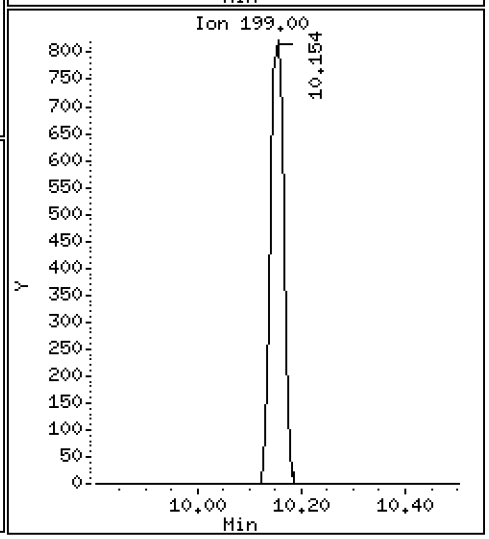












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

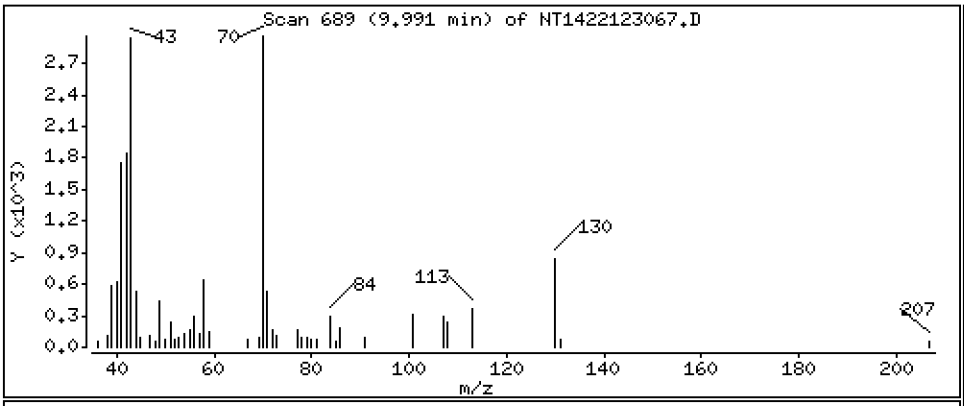
Operator: VTS

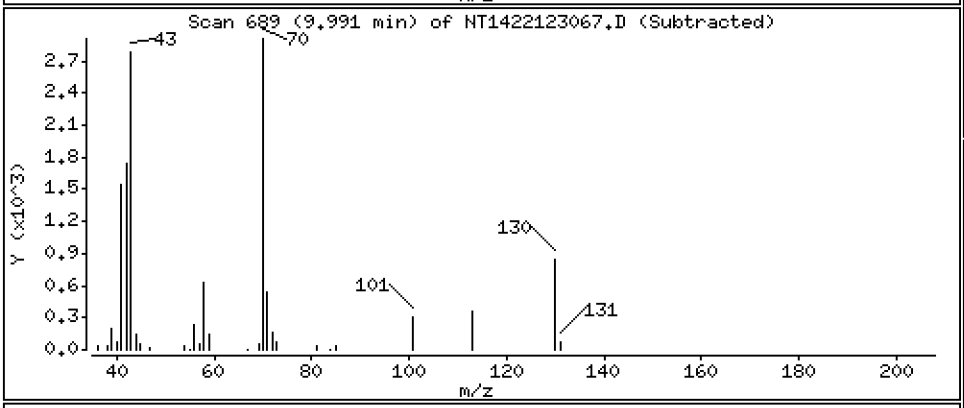
Column phase: ZB-5msi

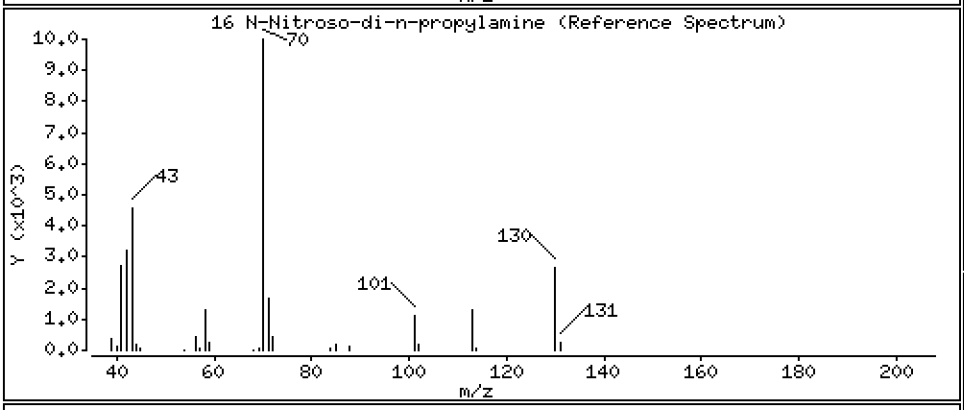
Column diameter: 0.25

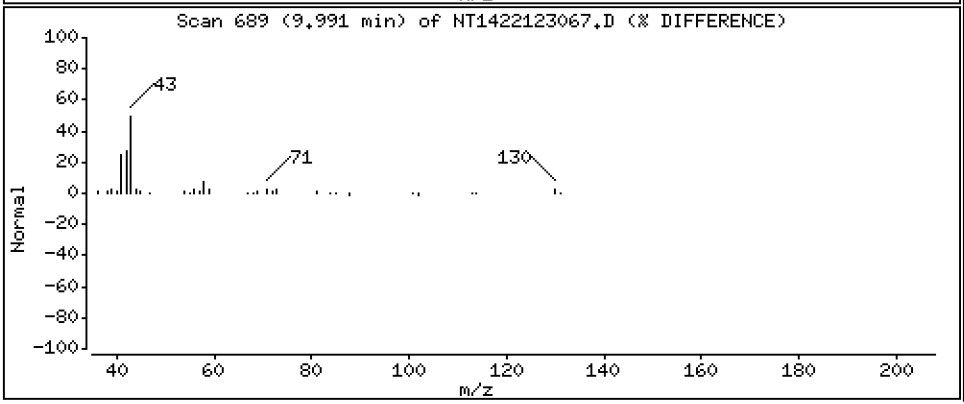
16 N-Nitroso-di-n-propylamine

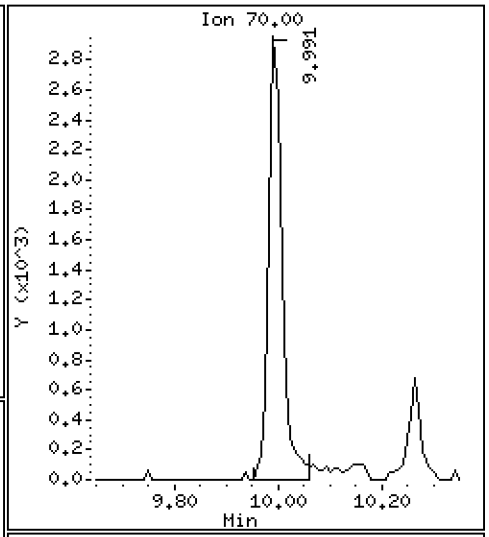
Concentration: 0.2352 ug/mL

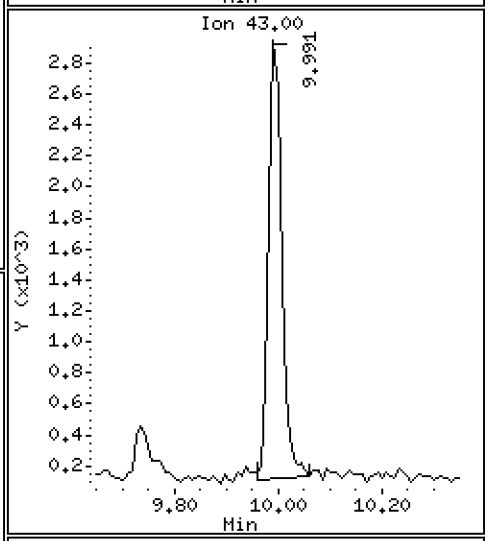


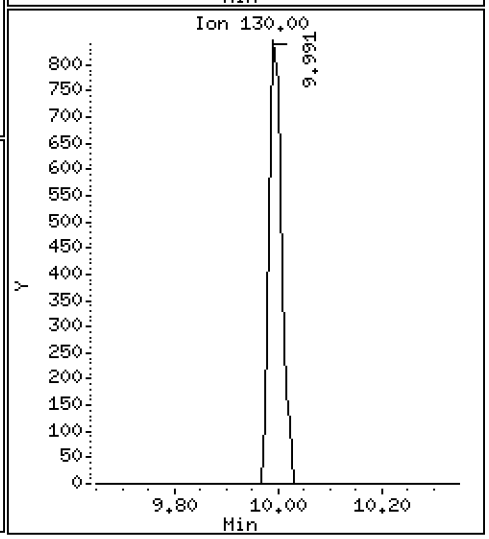












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

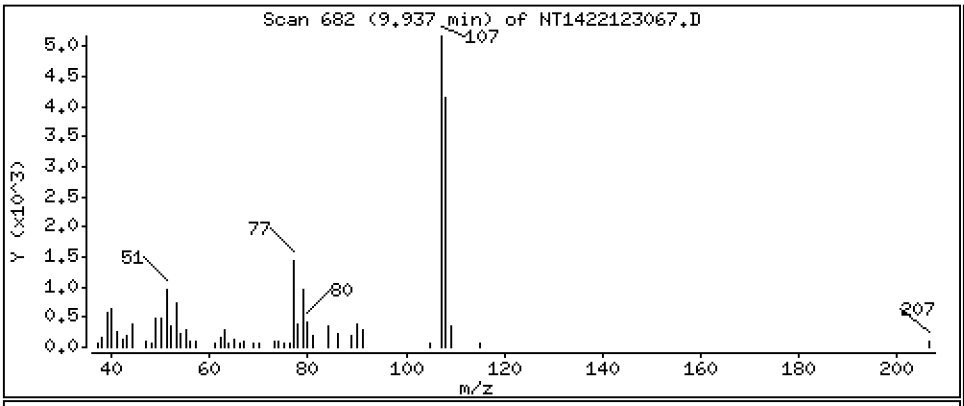
Operator: VTS

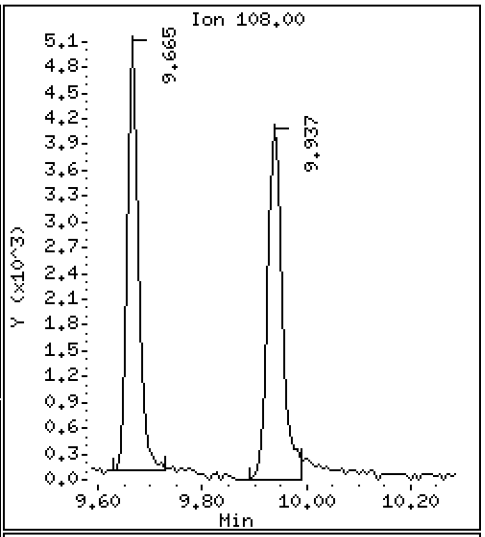
Column phase: ZB-5msi

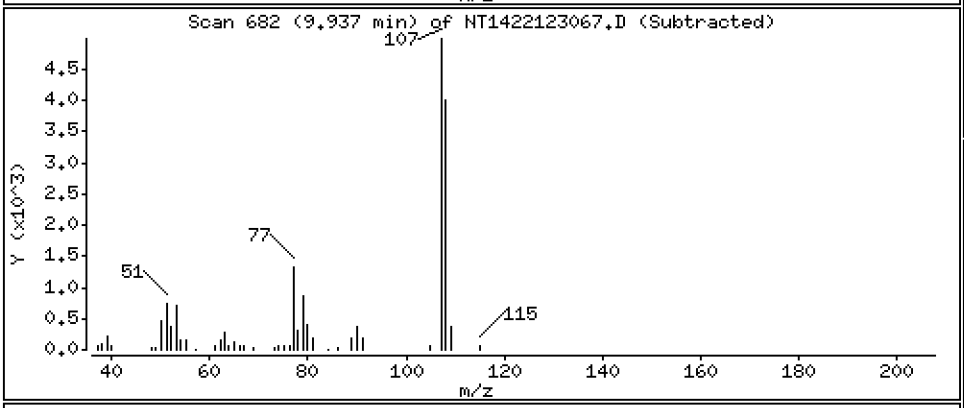
Column diameter: 0.25

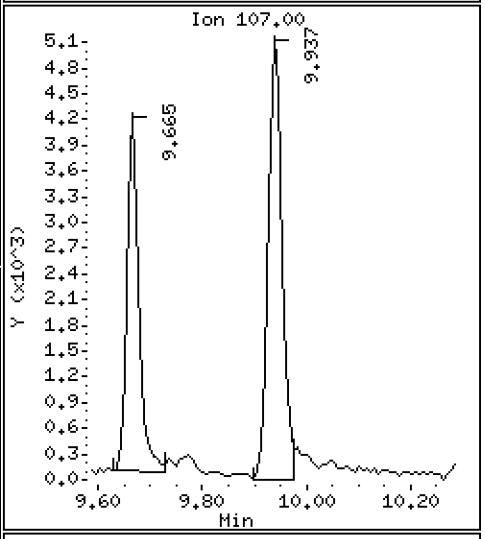
15 4-Methylphenol

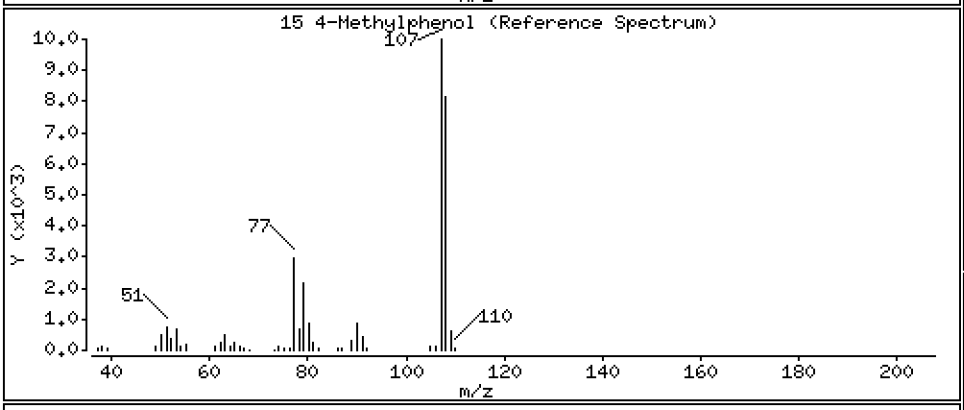
Concentration: 0.2079 ug/mL

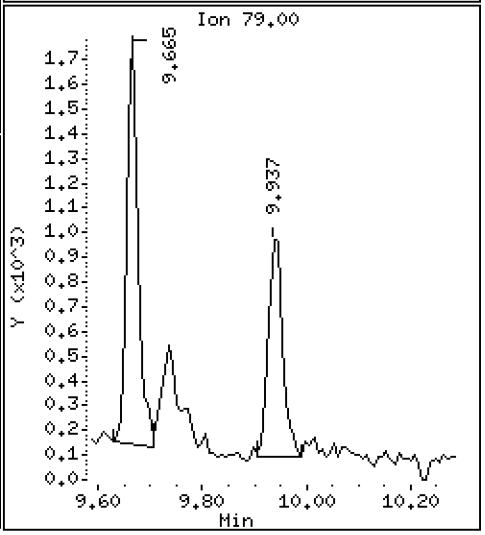


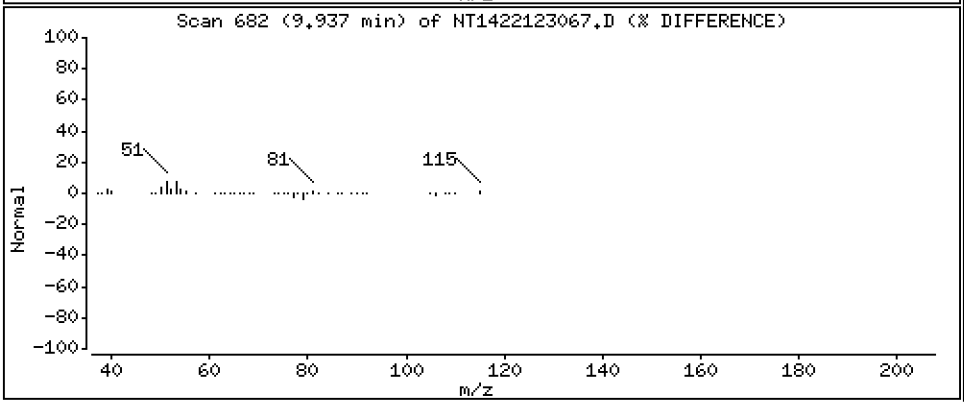












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

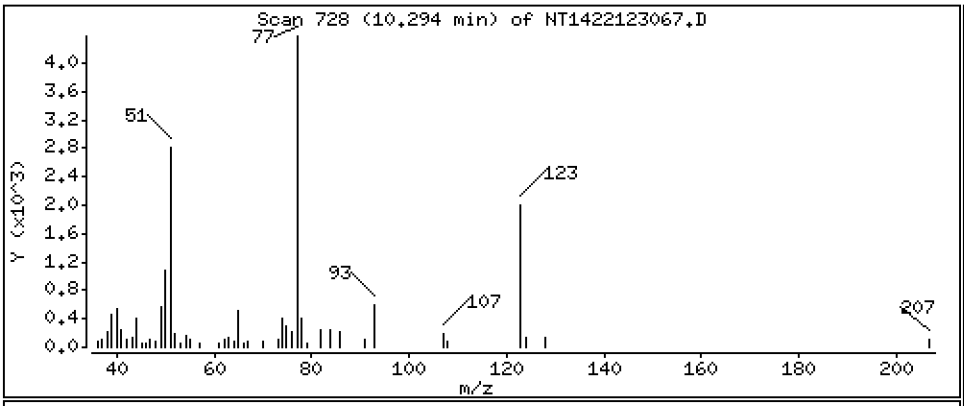
Operator: VTS

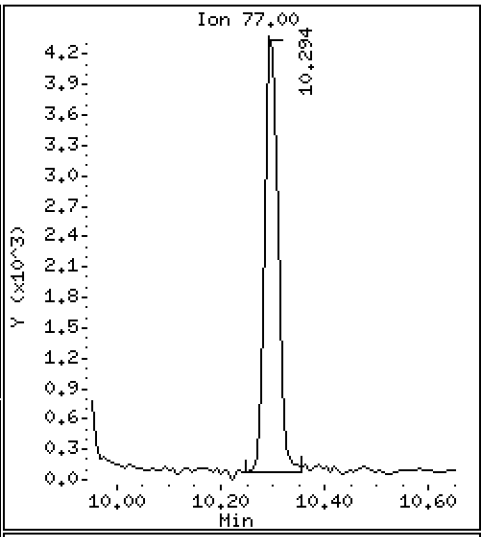
Column phase: ZB-5msi

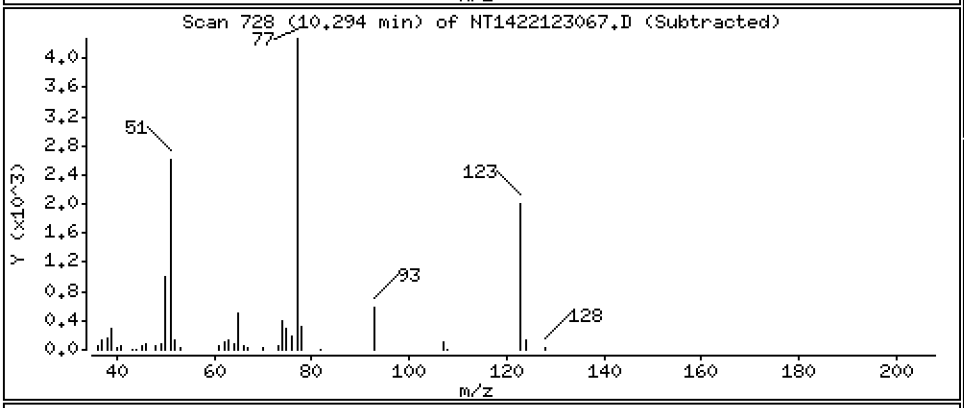
Column diameter: 0.25

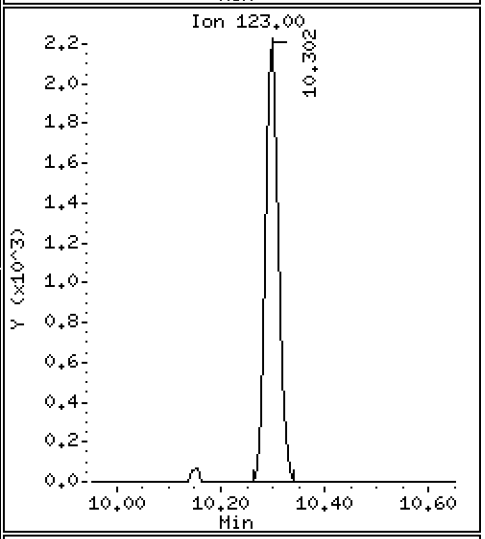
19 Nitrobenzene

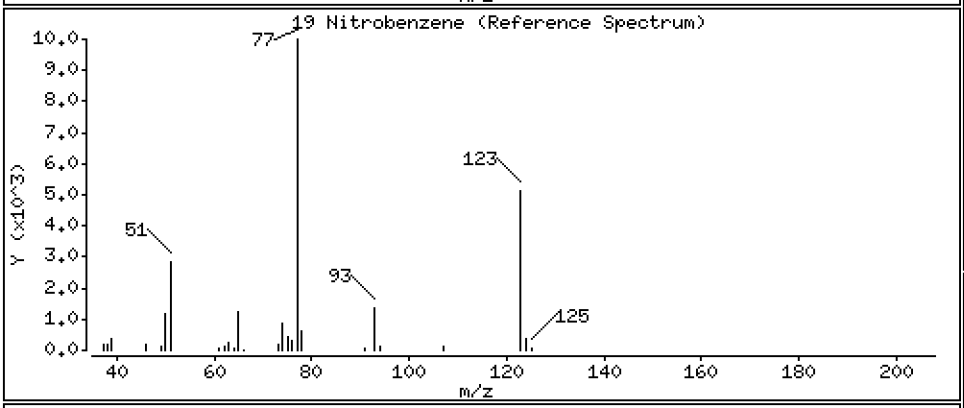
Concentration: 0.2230 ug/mL

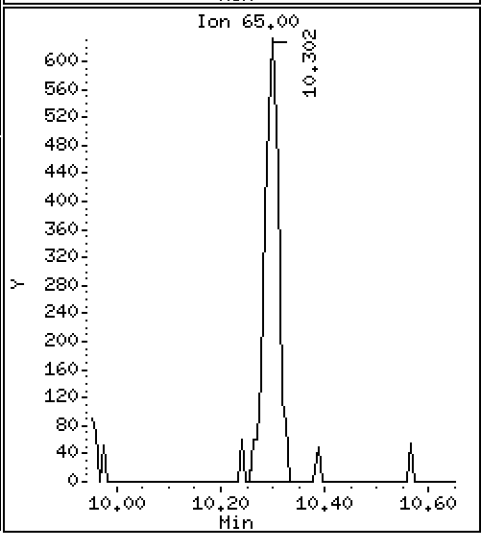


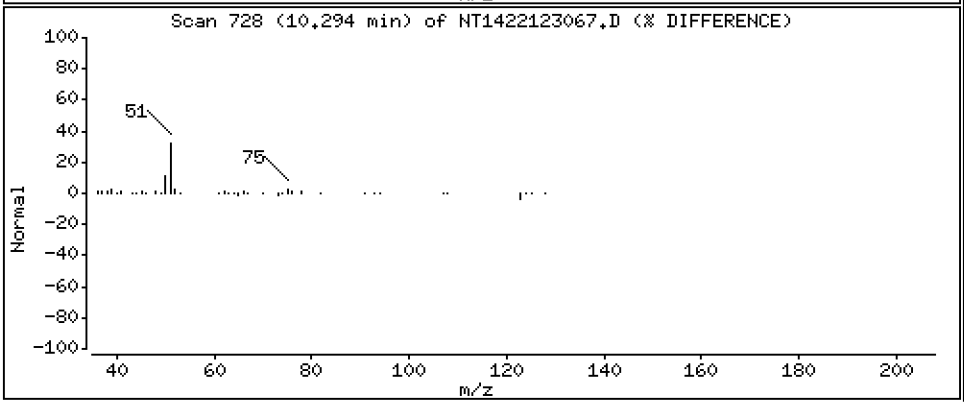












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

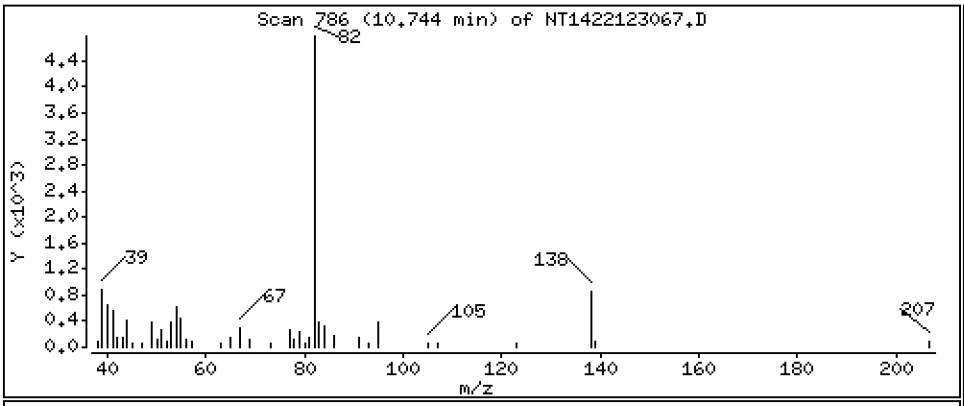
Operator: VTS

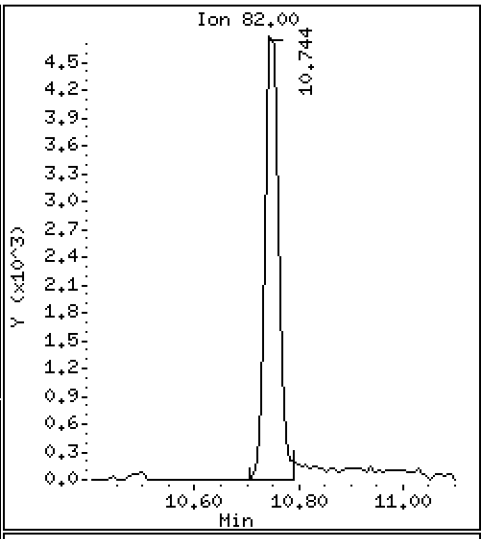
Column phase: ZB-5msi

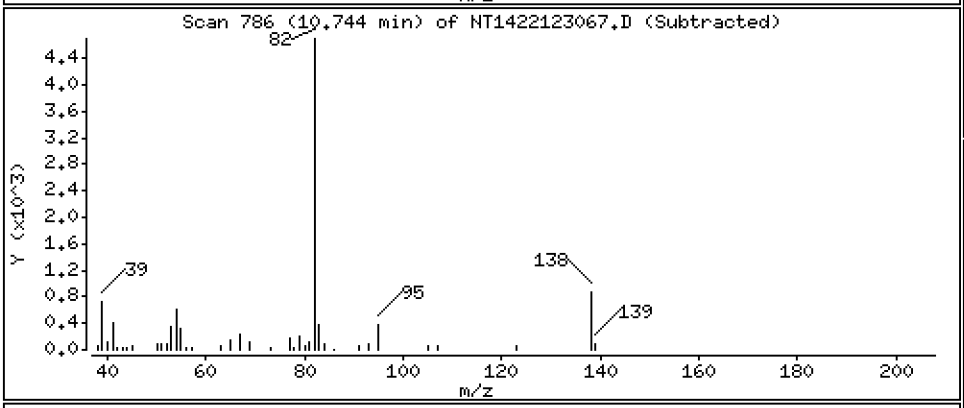
Column diameter: 0.25

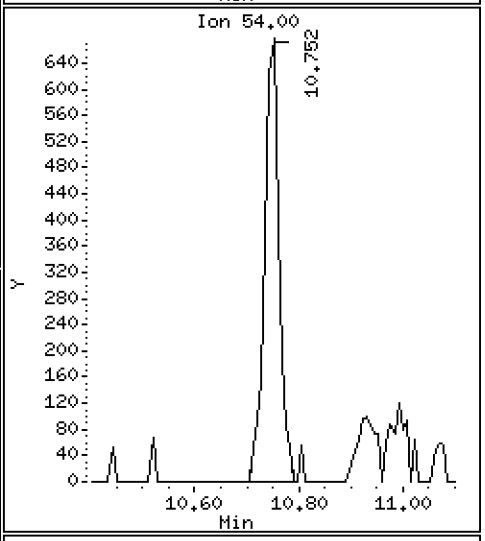
20 Isophorone

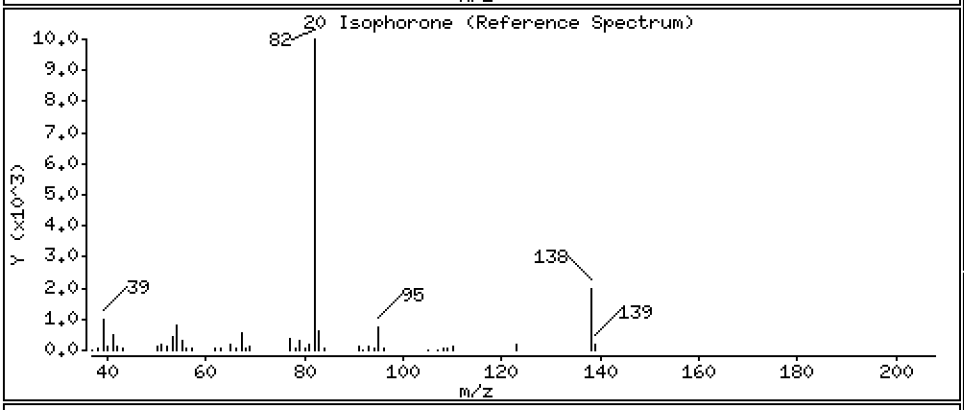
Concentration: 0.1972 ug/mL

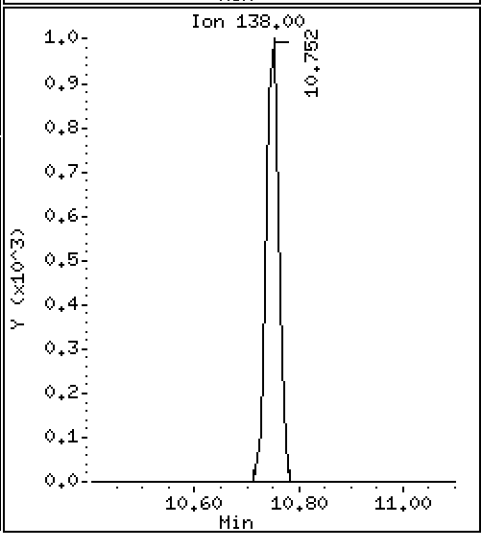


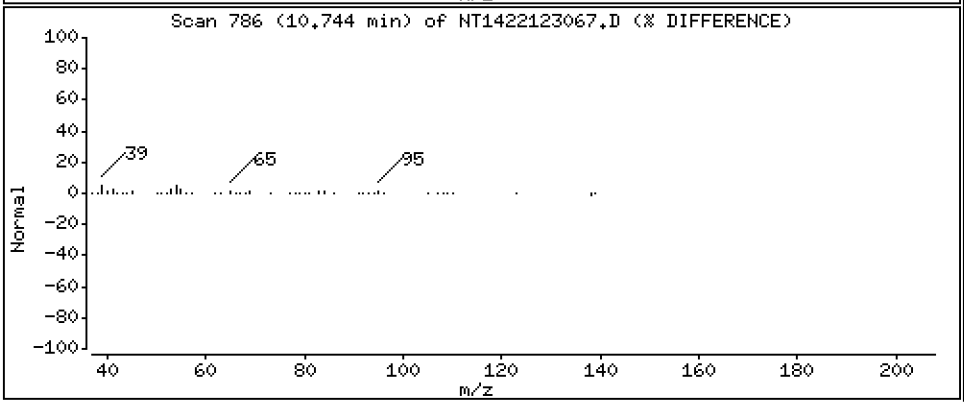












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

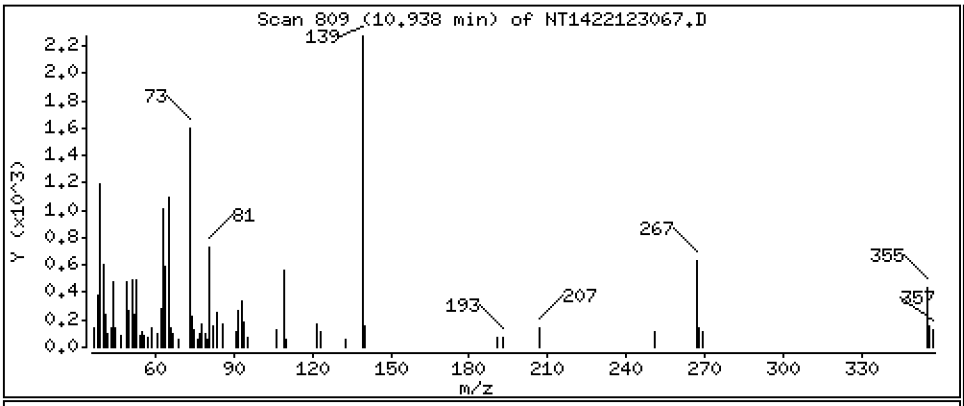
Operator: VTS

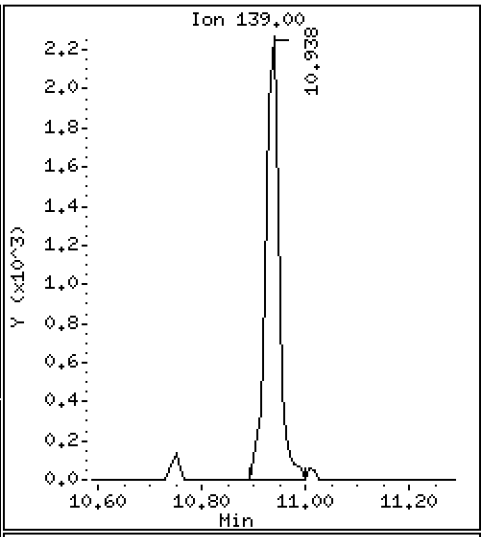
Column phase: ZB-5msi

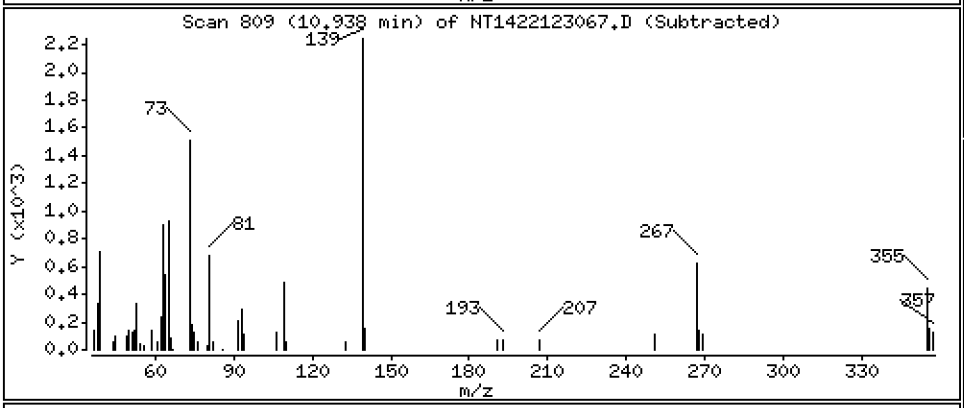
Column diameter: 0.25

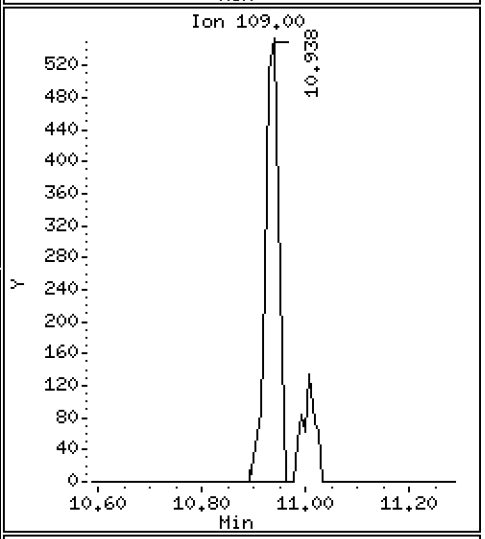
21 2-Nitrophenol

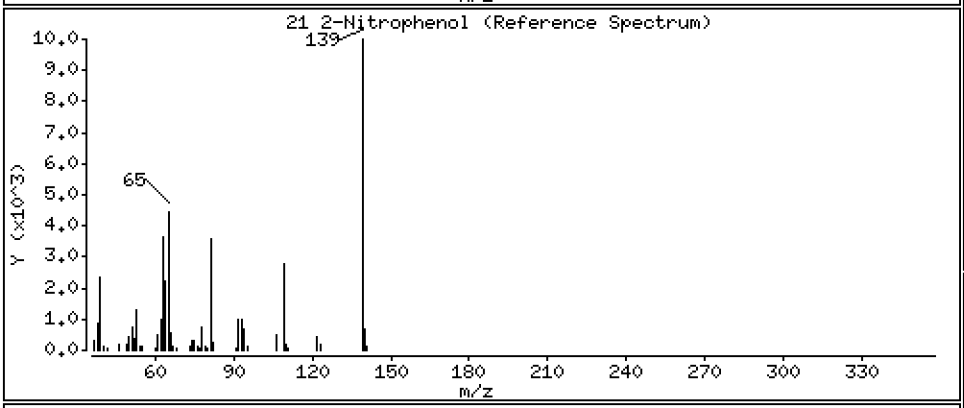
Concentration: 0.2116 ug/mL

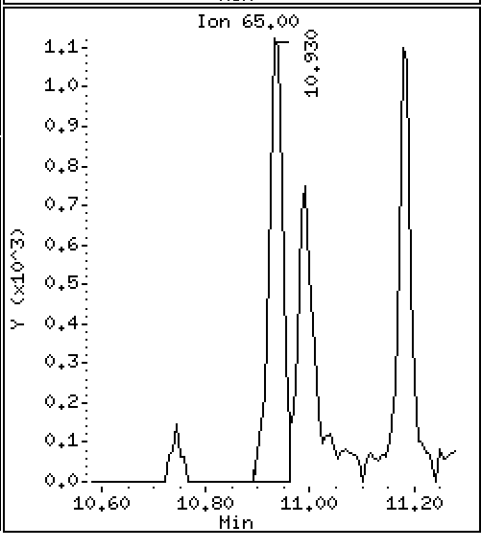


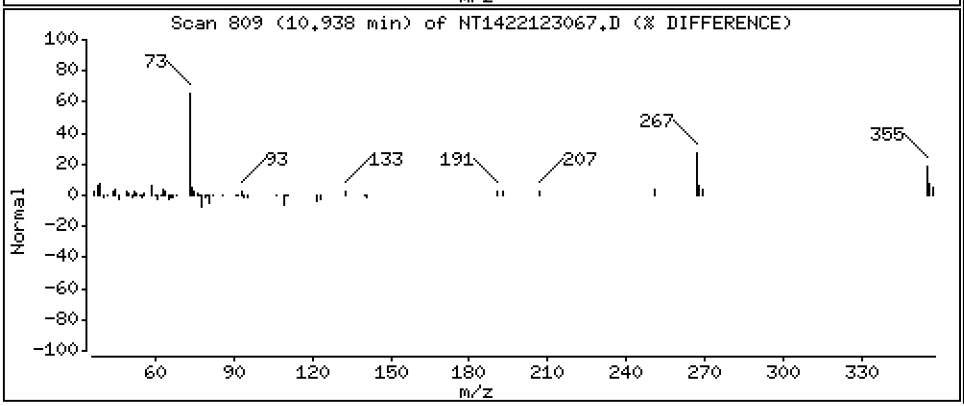












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

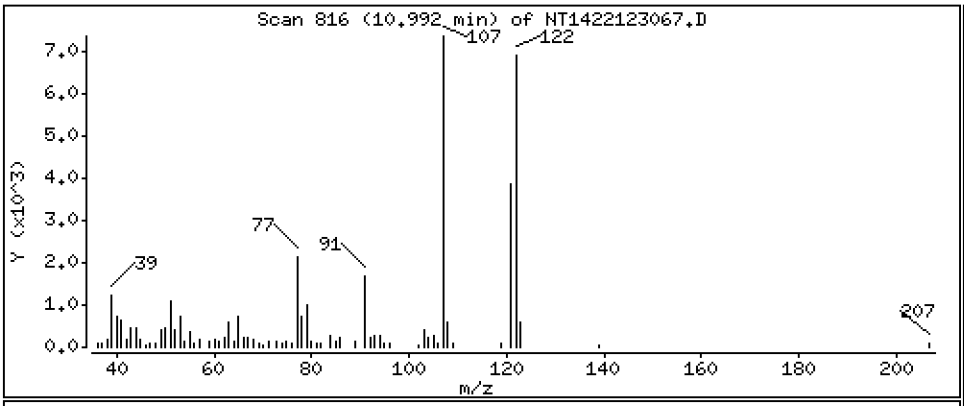
Operator: VTS

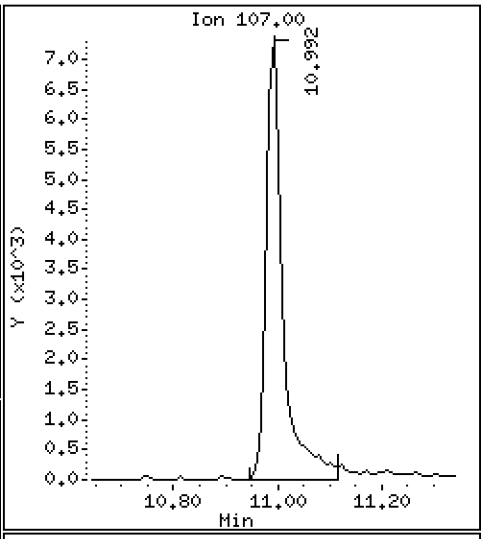
Column phase: ZB-5msi

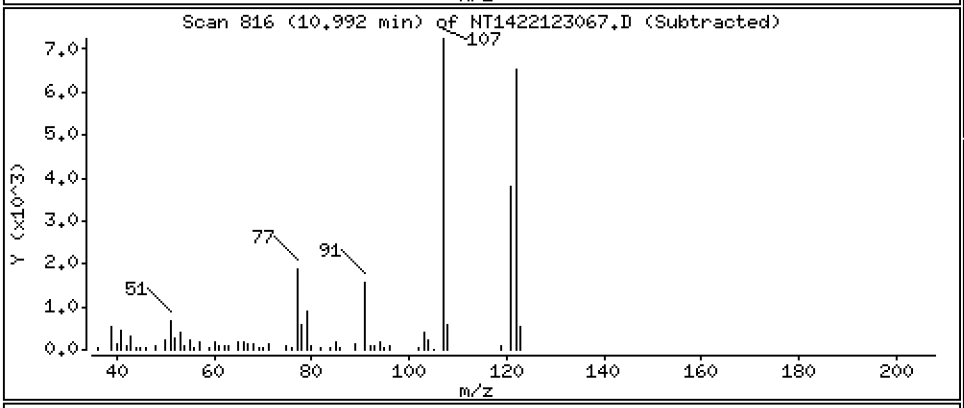
Column diameter: 0.25

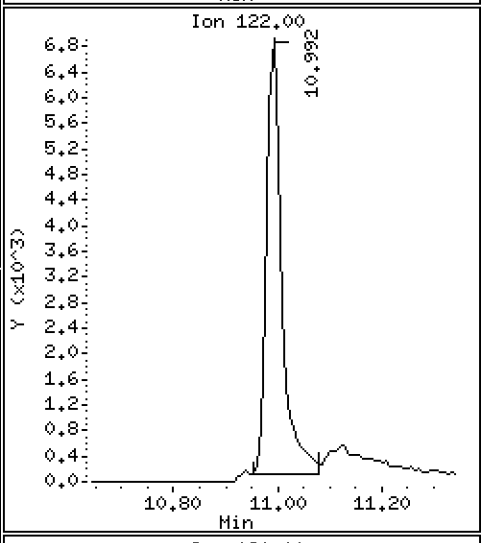
22 2,4-Dimethylphenol

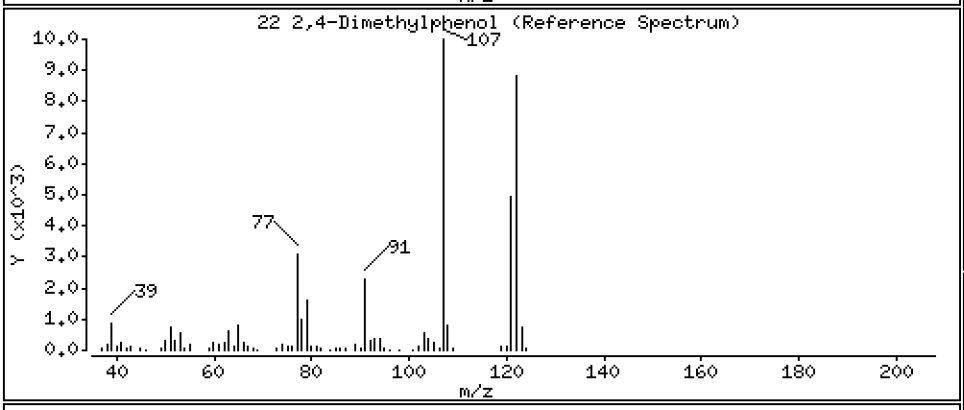
Concentration: 0.4590 ug/mL

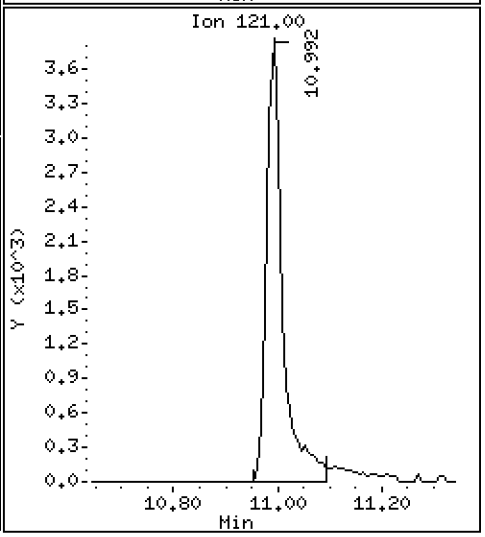


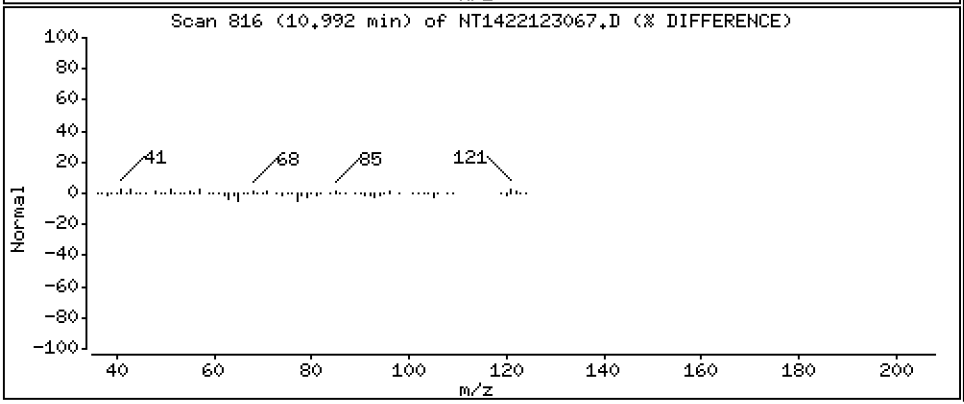












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

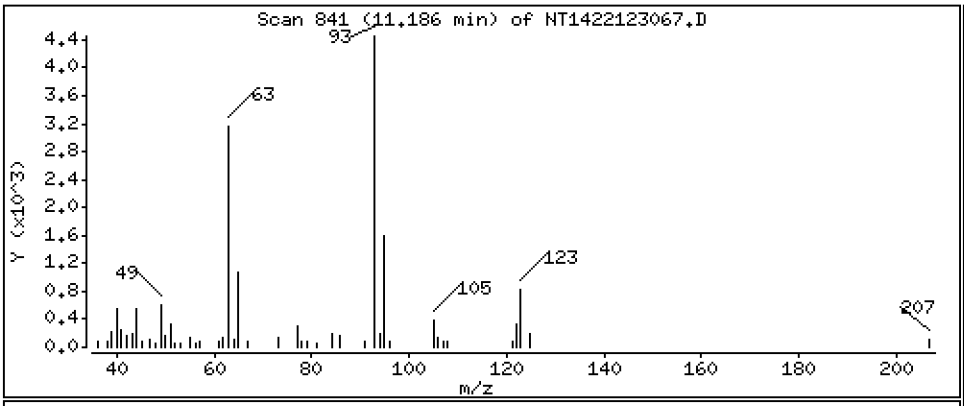
Operator: VTS

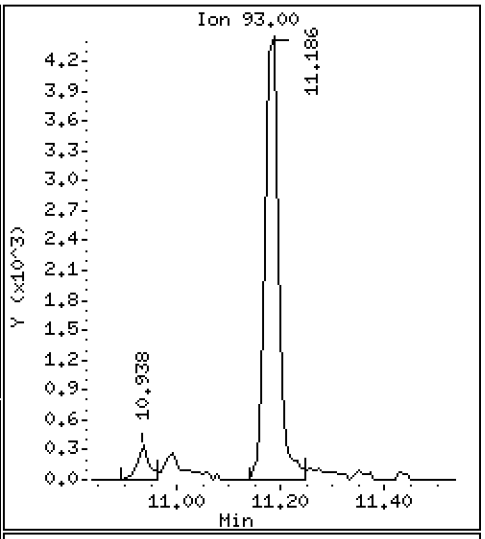
Column phase: ZB-5msi

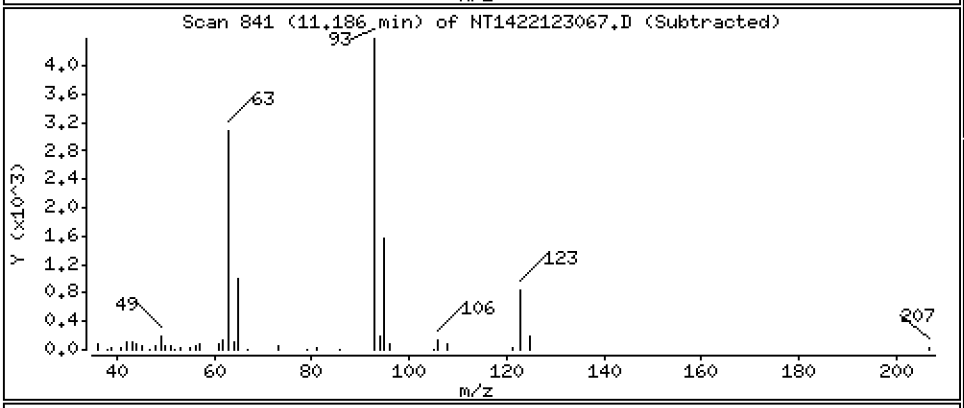
Column diameter: 0.25

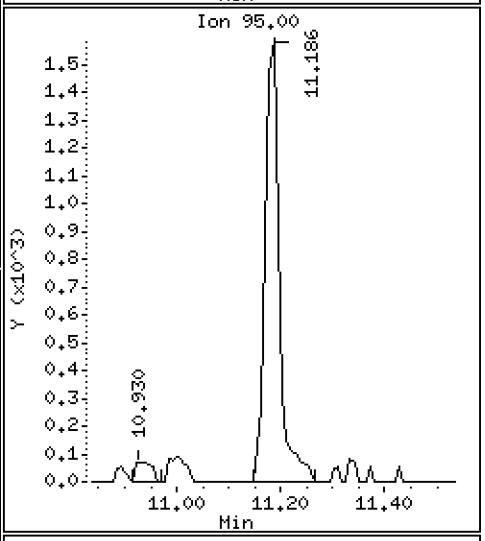
23 Bis(2-Chloroethoxy)methane

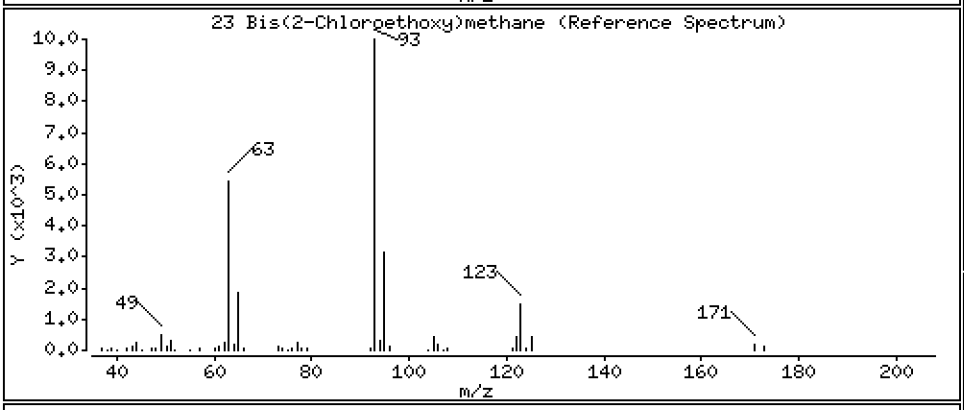
Concentration: 0.2359 ug/mL

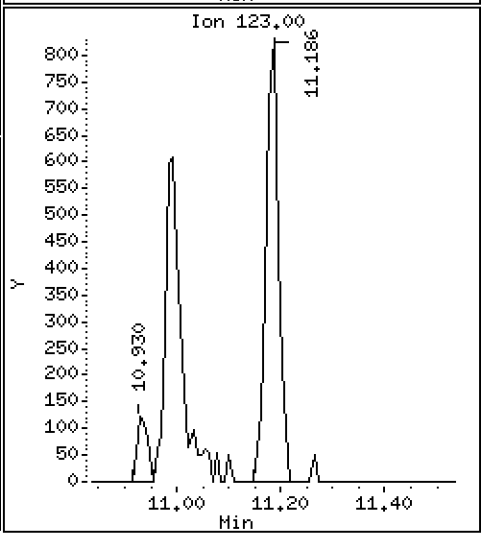


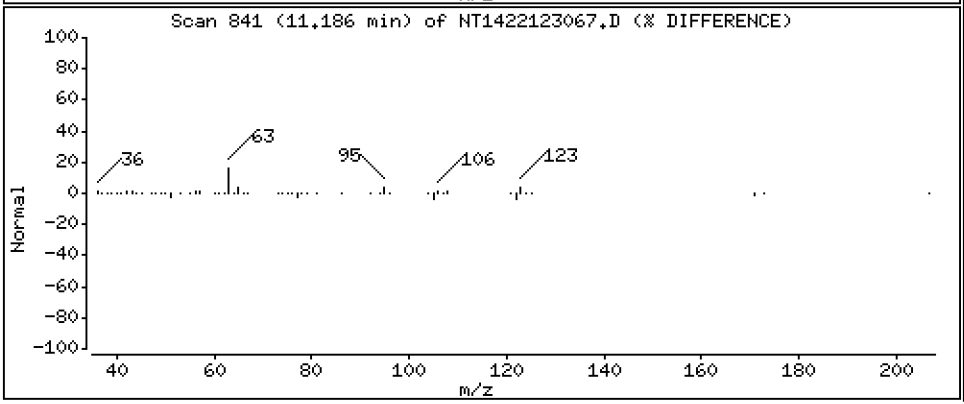












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

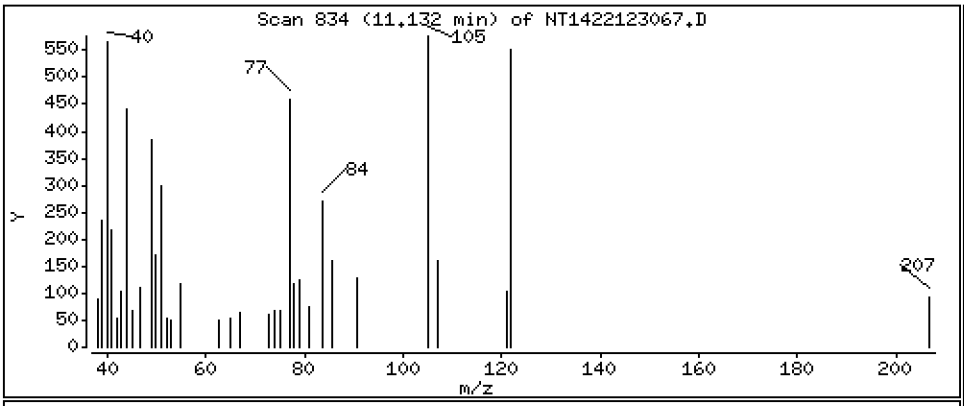
Operator: VTS

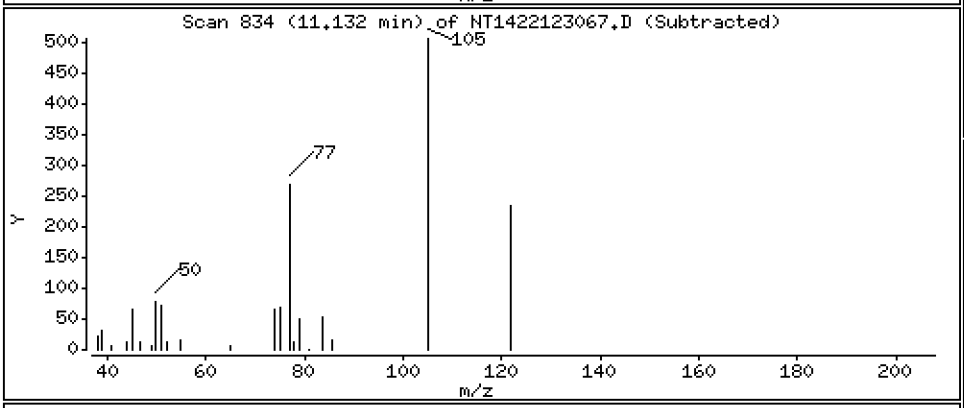
Column phase: ZB-5msi

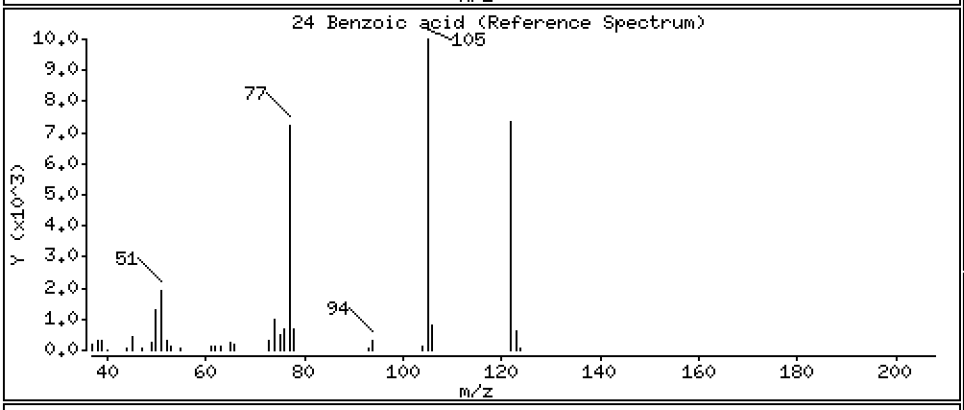
Column diameter: 0.25

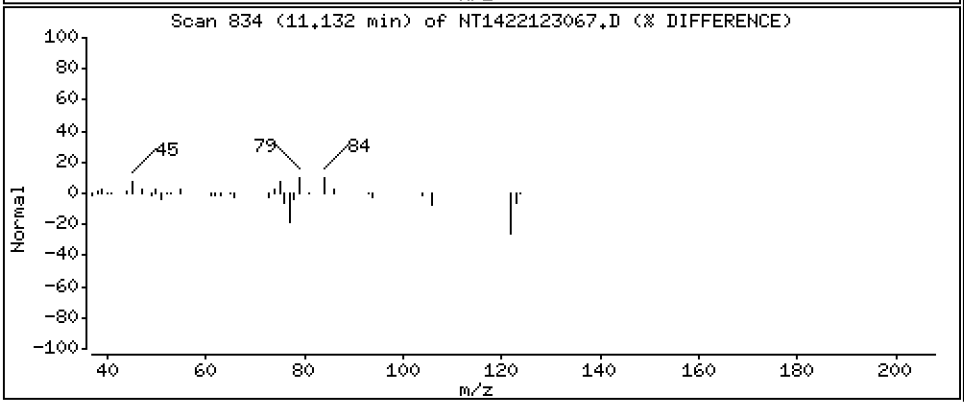
24 Benzoic acid

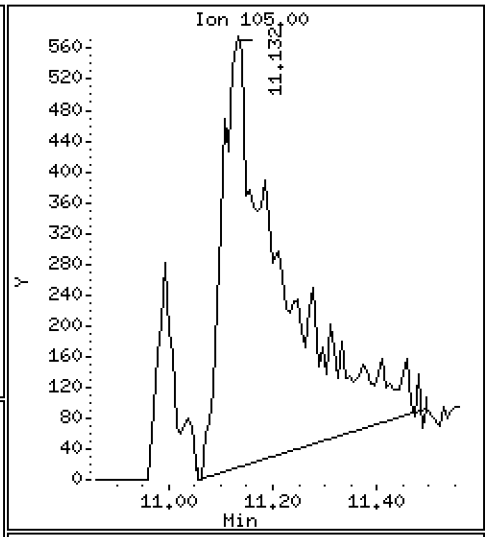
Concentration: 0.2097 ug/mL

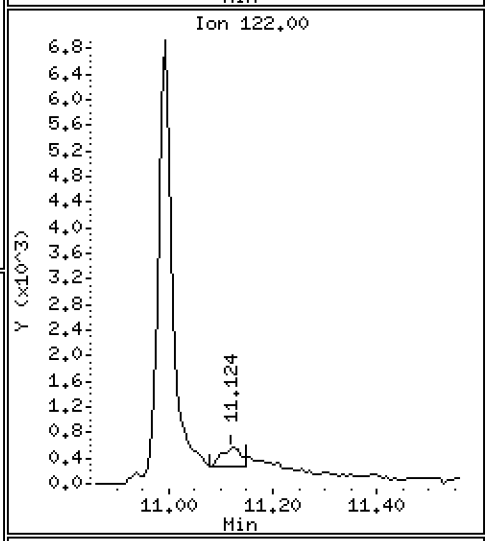


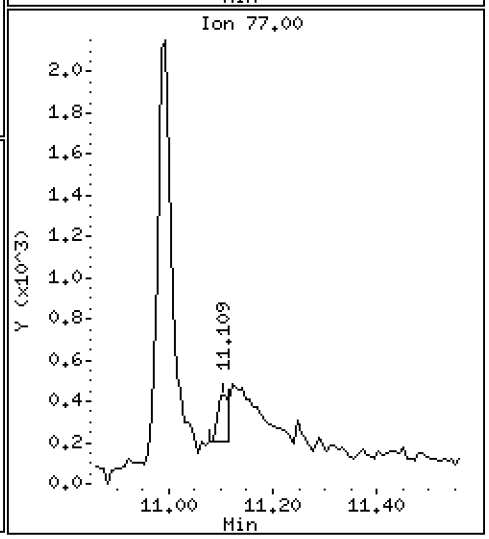












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

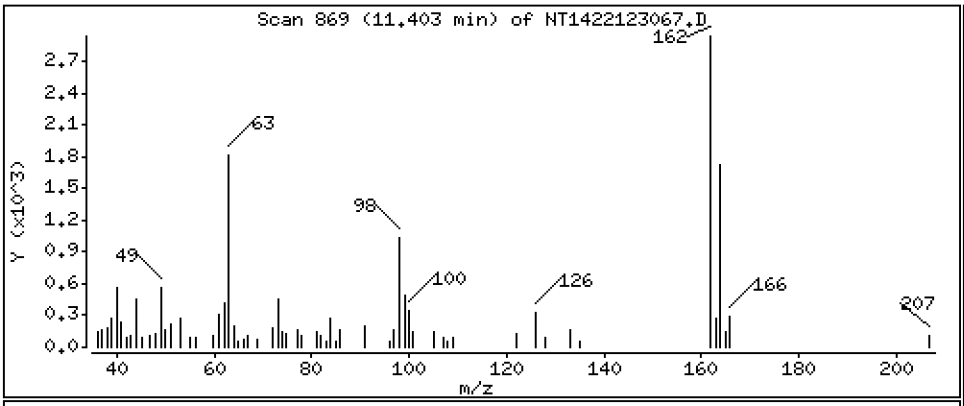
Operator: VTS

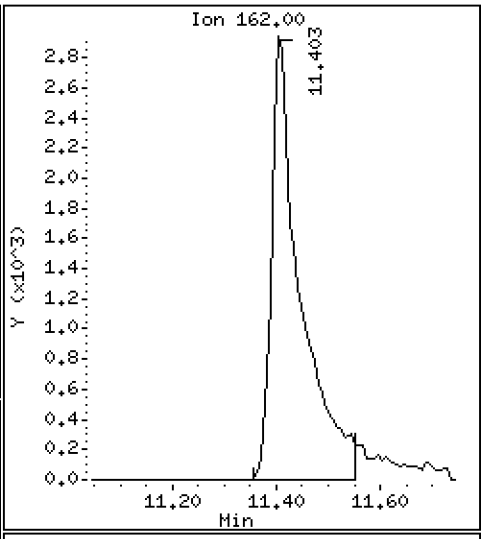
Column phase: ZB-5msi

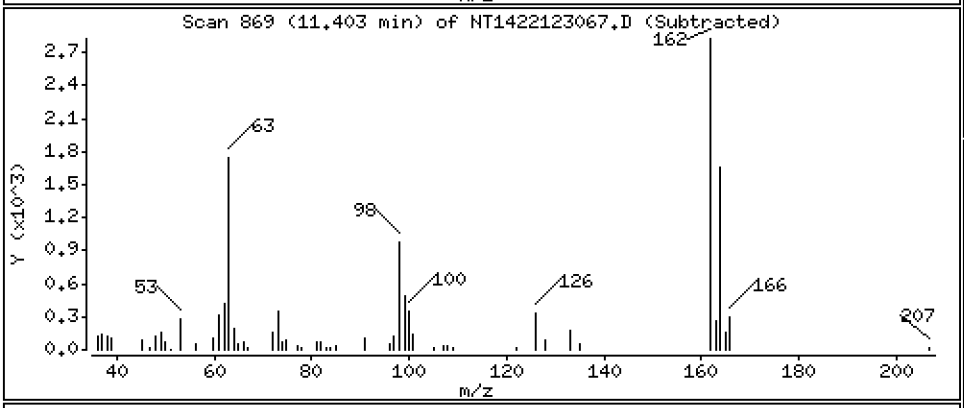
Column diameter: 0.25

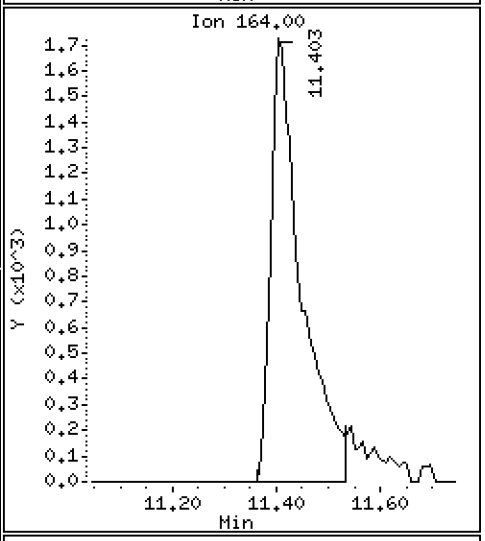
25 2,4-Dichlorophenol

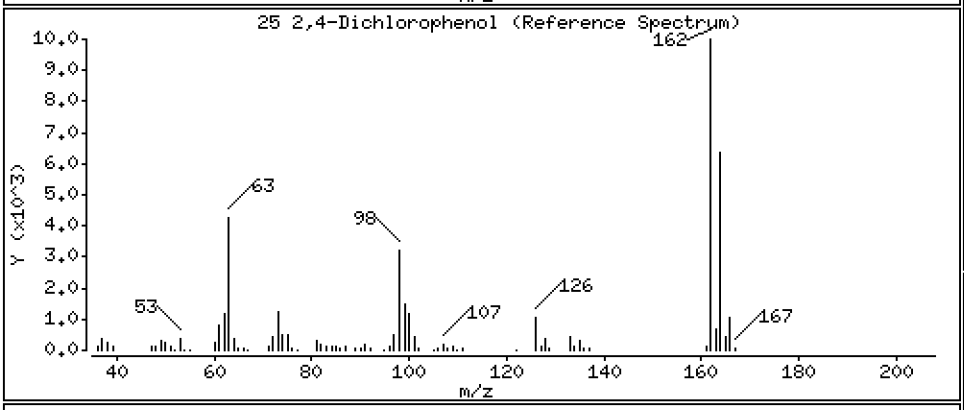
Concentration: 0.4100 ug/mL

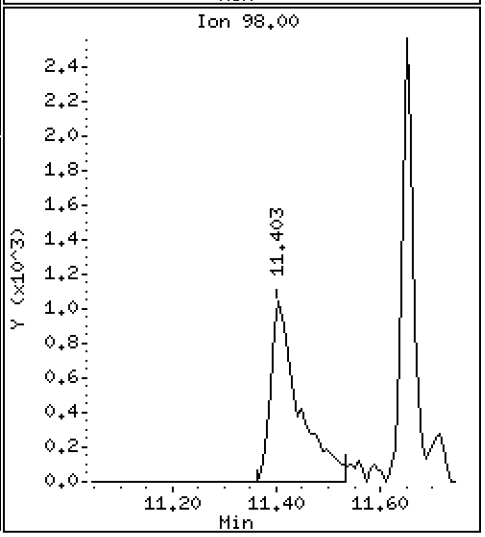


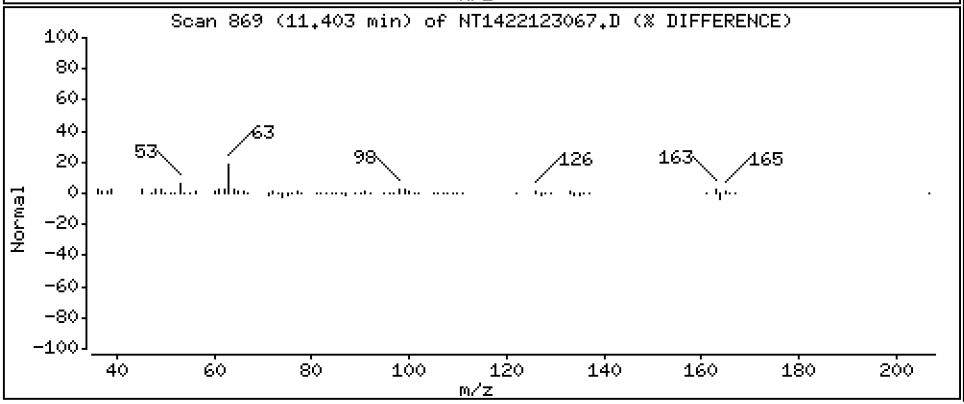












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

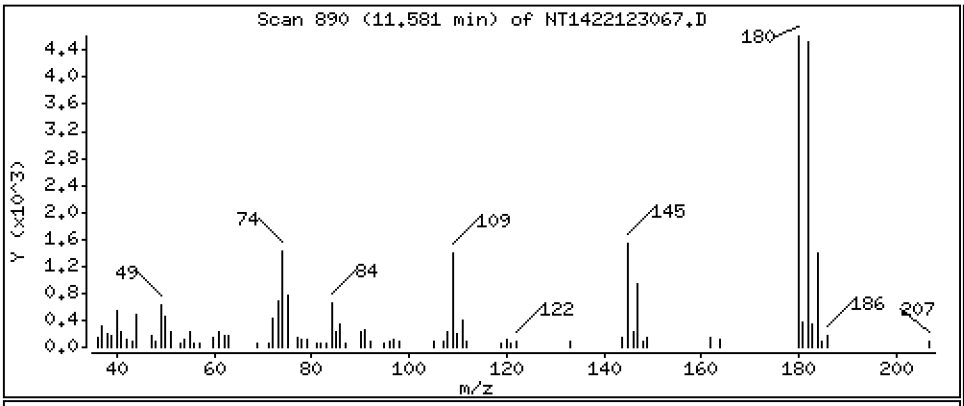
Operator: VTS

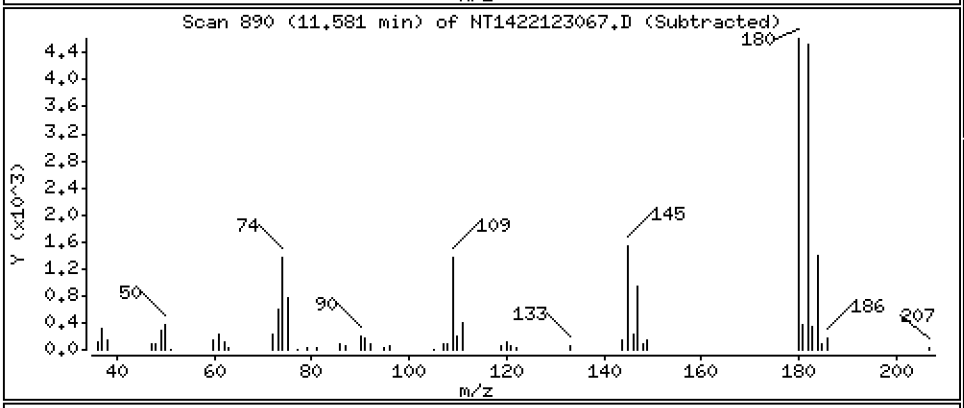
Column phase: ZB-5msi

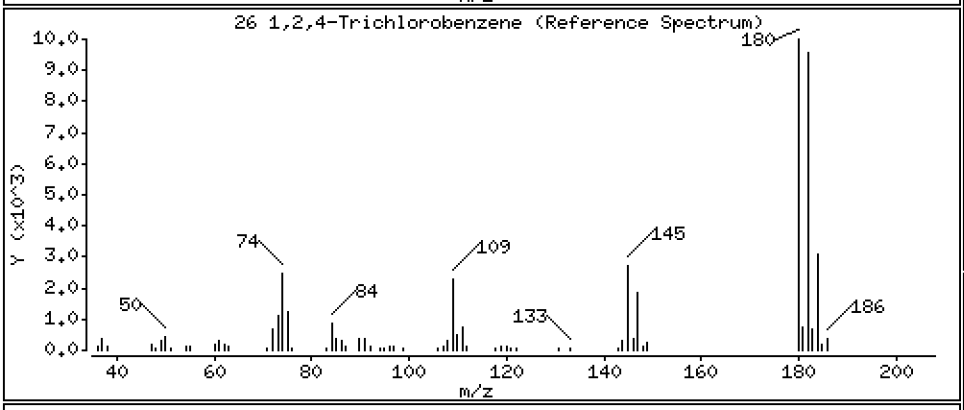
Column diameter: 0.25

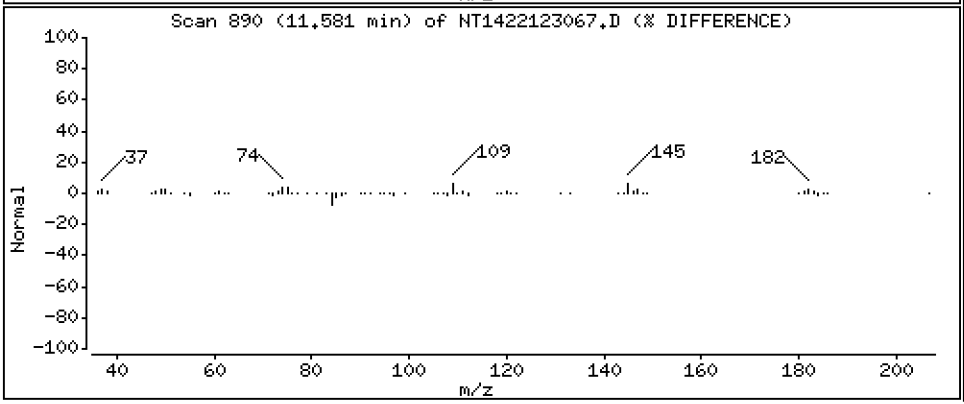
26 1,2,4-Trichlorobenzene

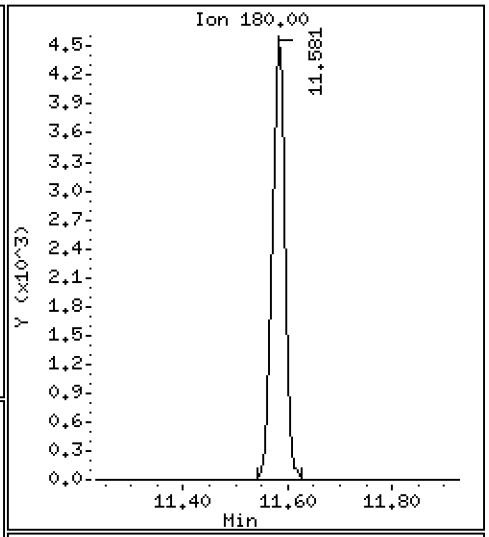
Concentration: 0.2401 ug/mL

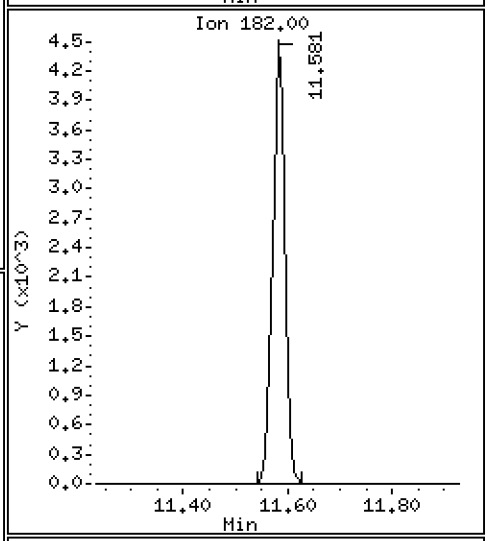


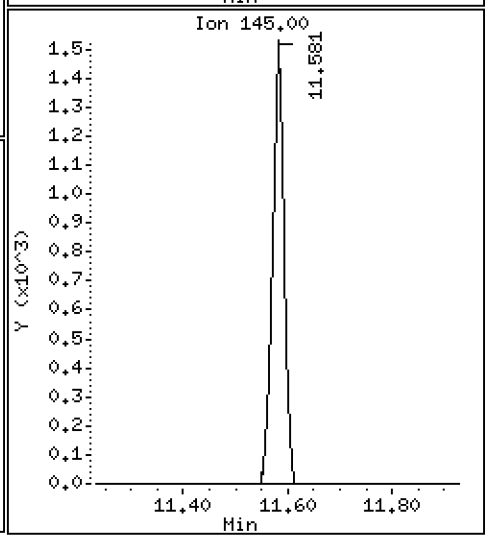












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

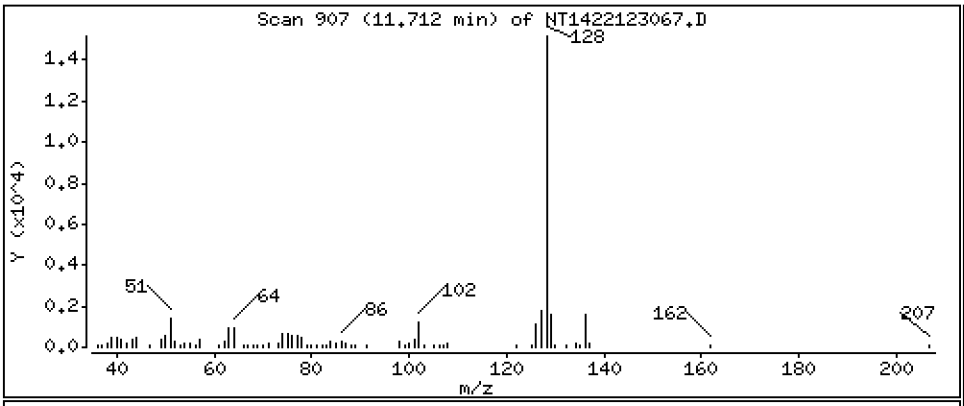
Operator: VTS

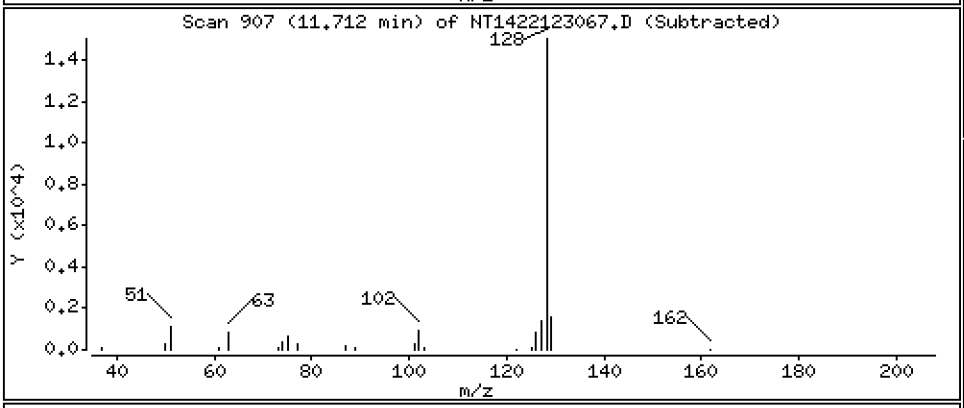
Column phase: ZB-5msi

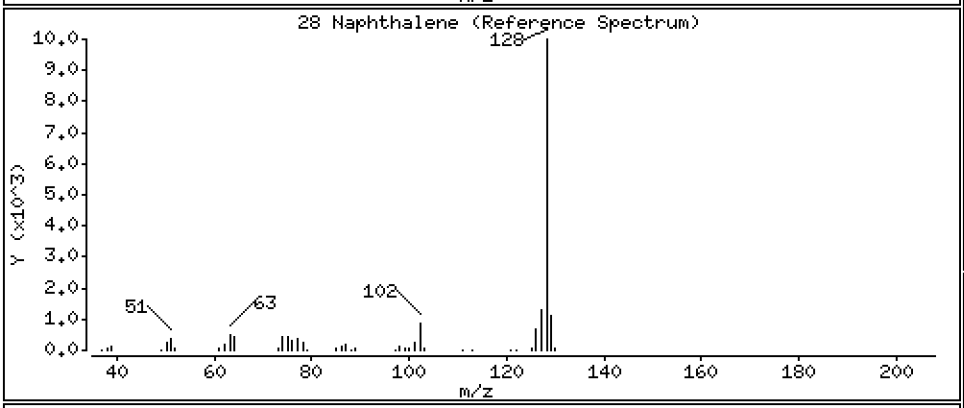
Column diameter: 0.25

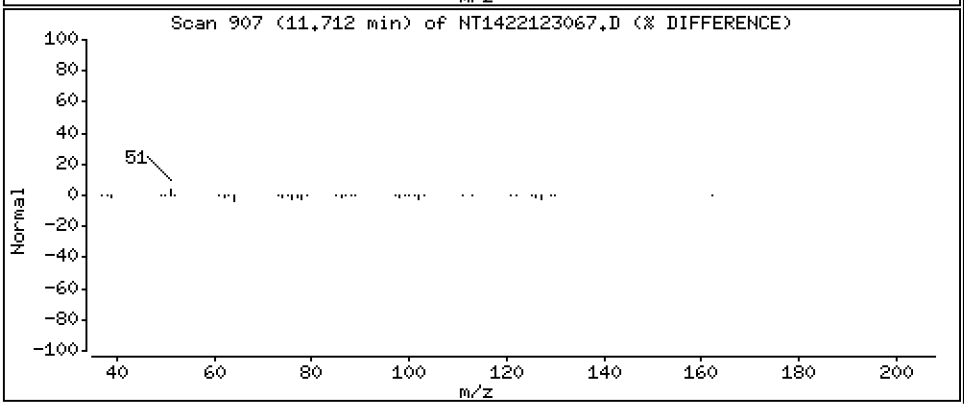
28 Naphthalene

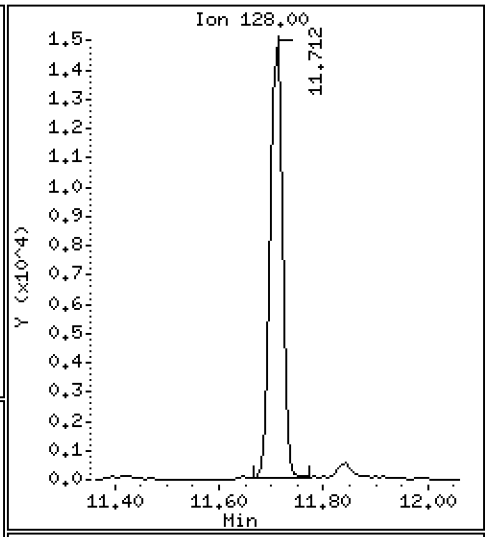
Concentration: 0.2355 ug/mL

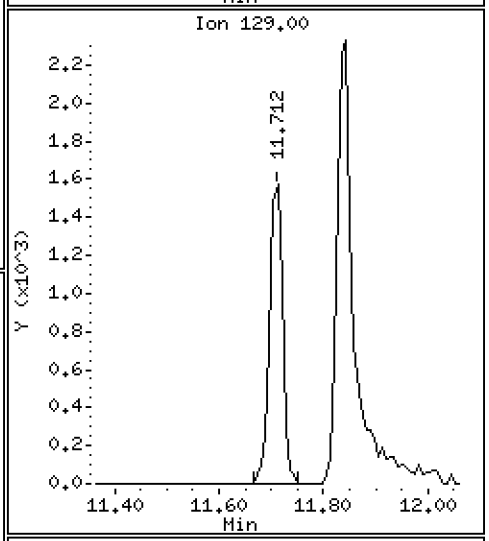


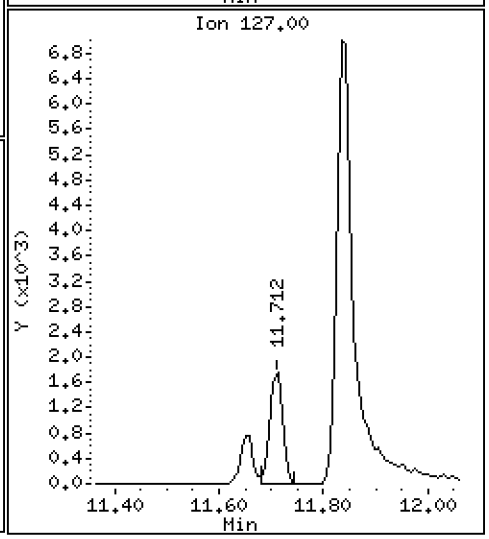












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

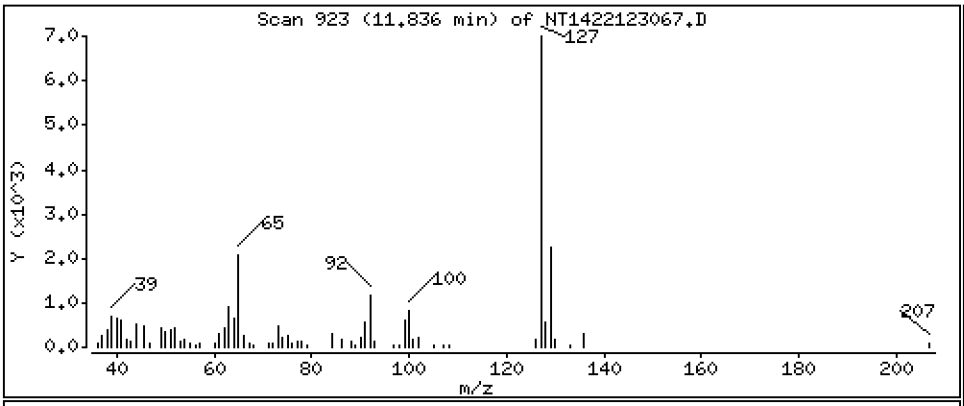
Operator: VTS

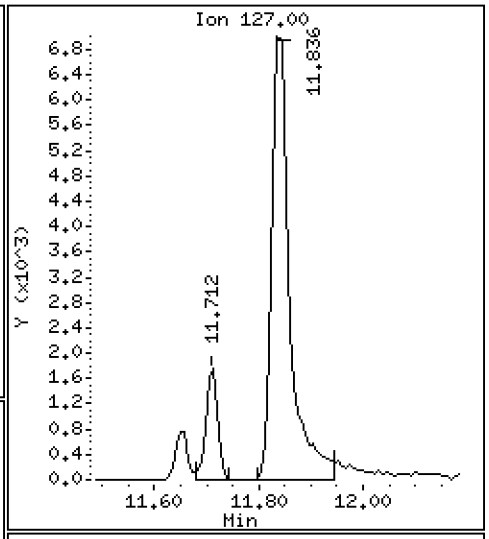
Column phase: ZB-5msi

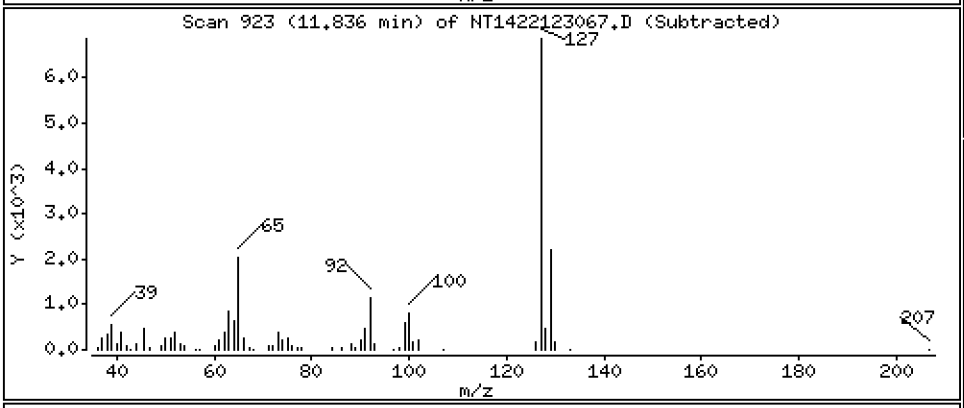
Column diameter: 0.25

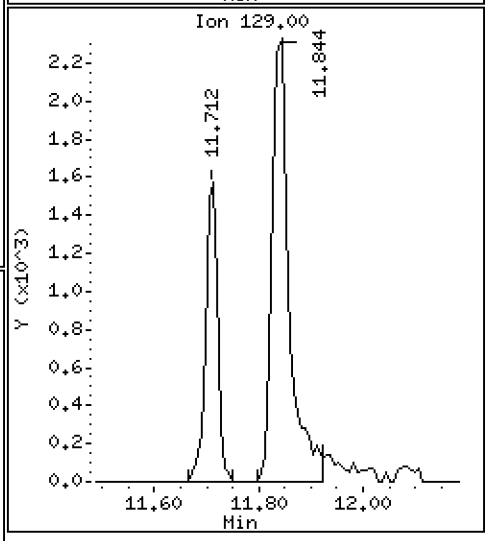
29 4-Chloroaniline

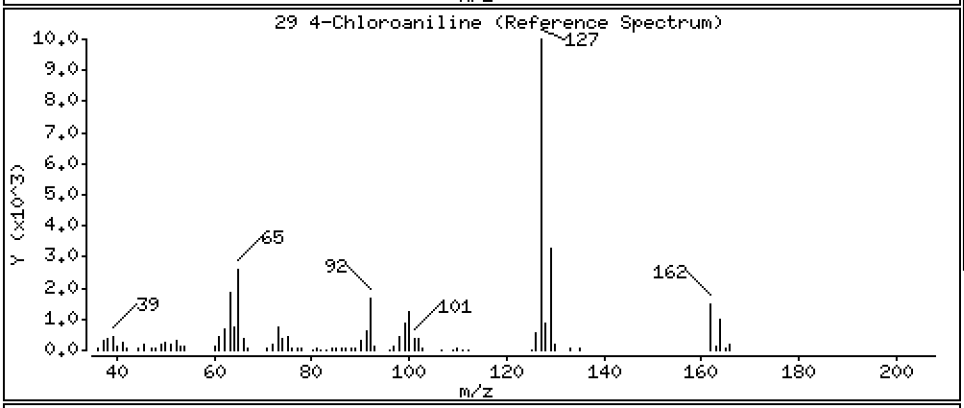
Concentration: 0.4051 ug/mL

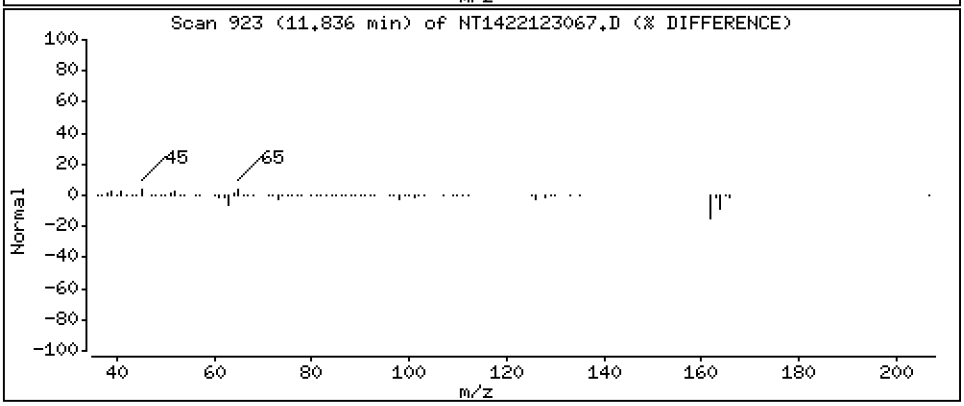












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

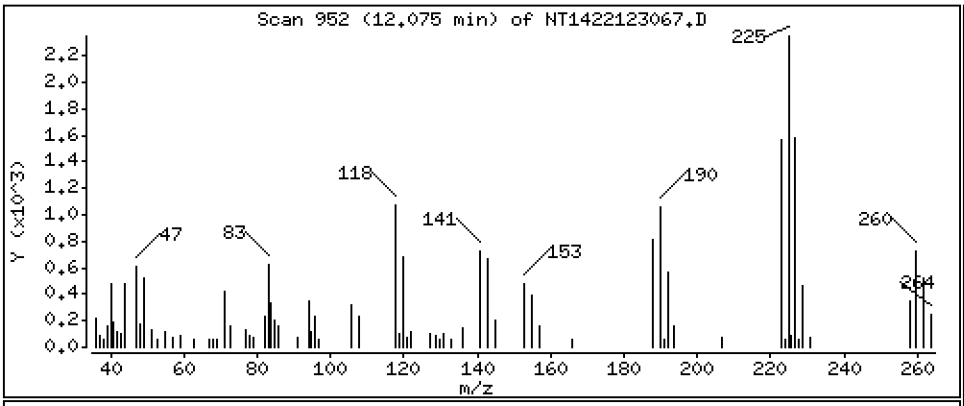
Operator: VTS

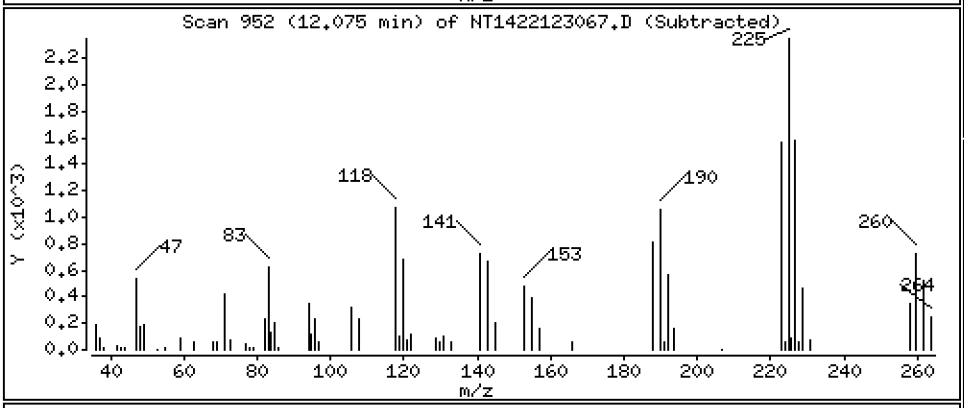
Column phase: ZB-5msi

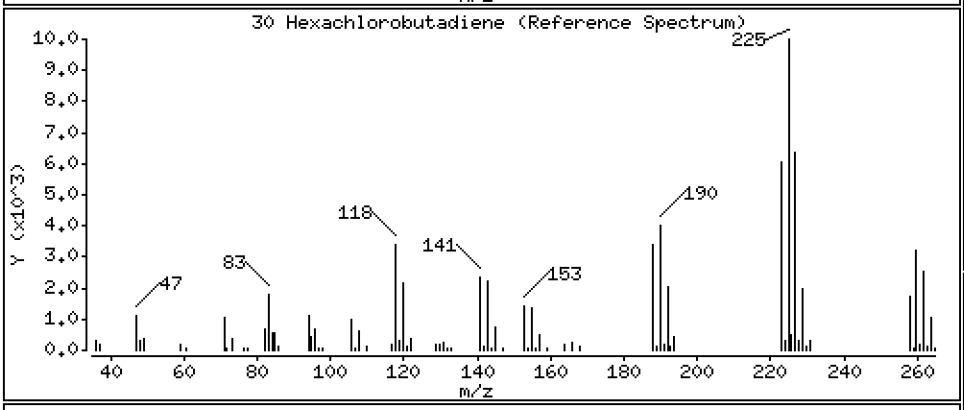
Column diameter: 0.25

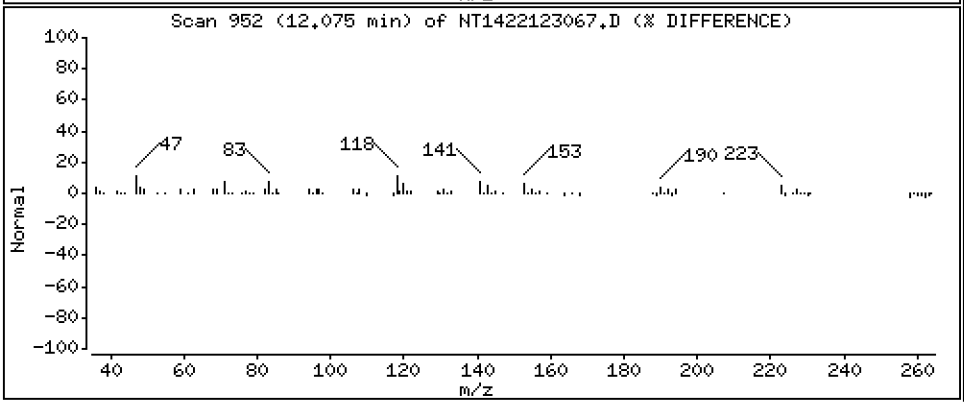
30 Hexachlorobutadiene

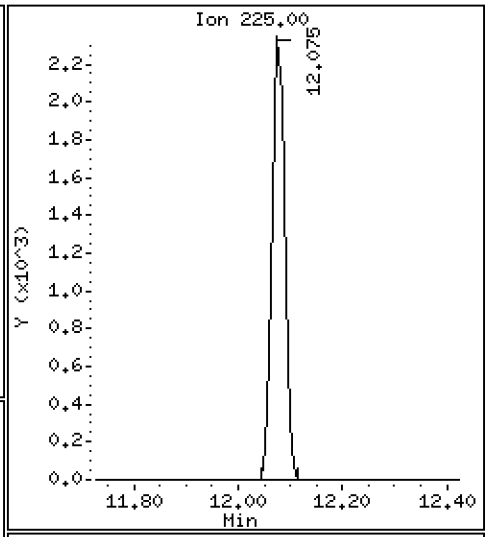
Concentration: 0.2380 ug/mL

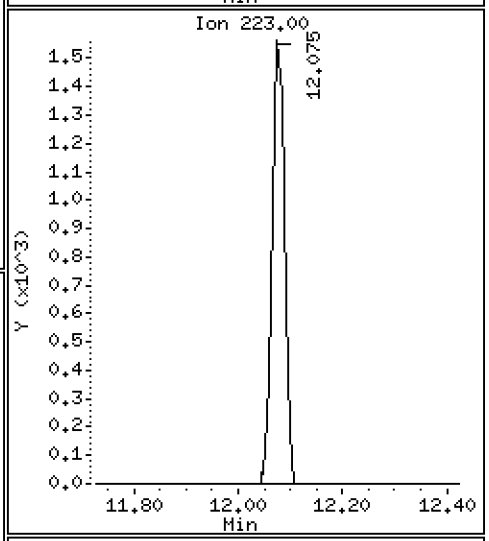


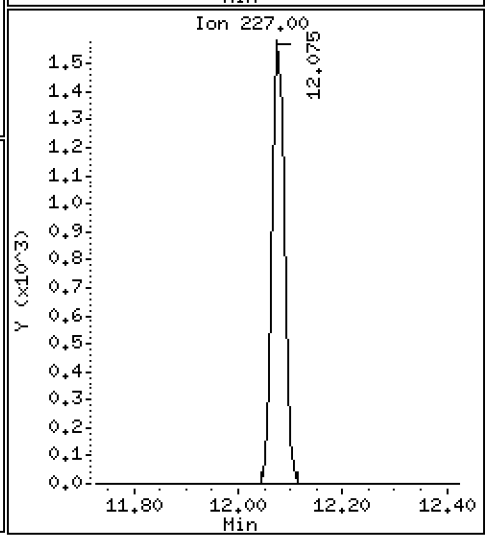












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

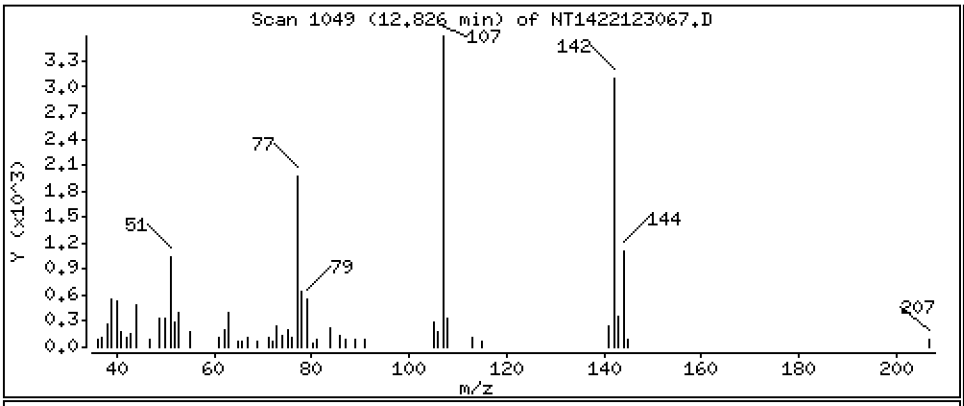
Operator: VTS

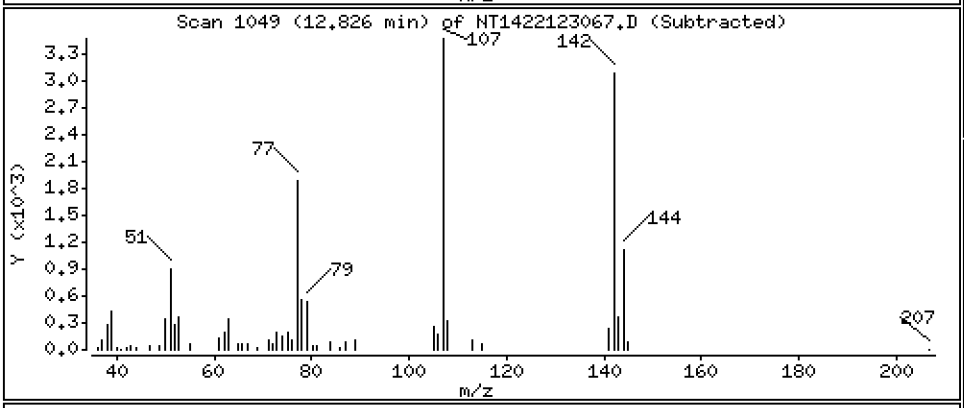
Column phase: ZB-5msi

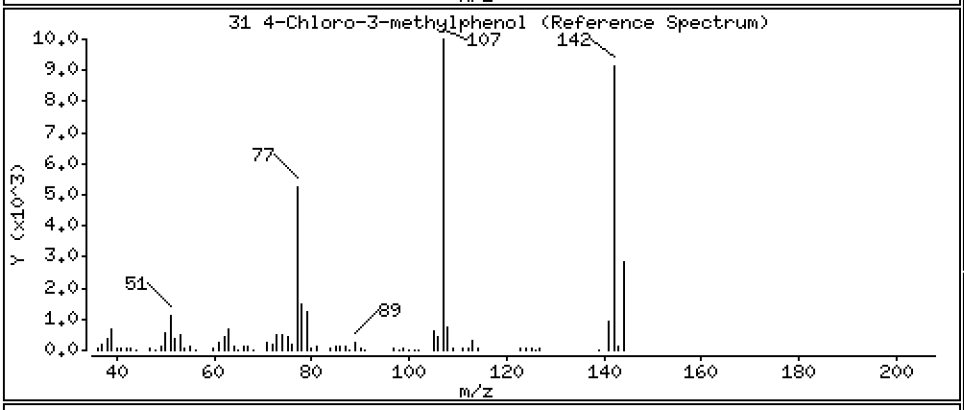
Column diameter: 0.25

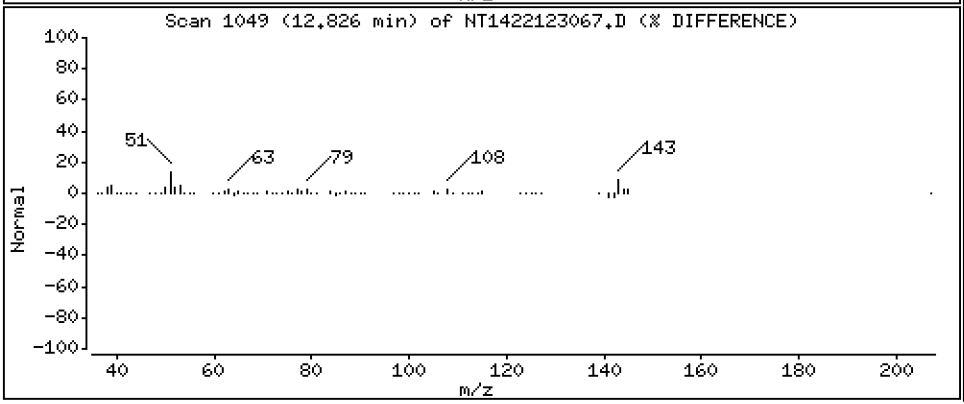
31 4-Chloro-3-methylphenol

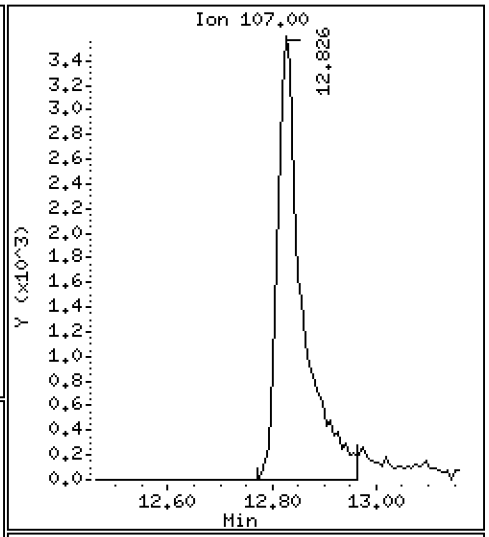
Concentration: 0.4327 ug/mL

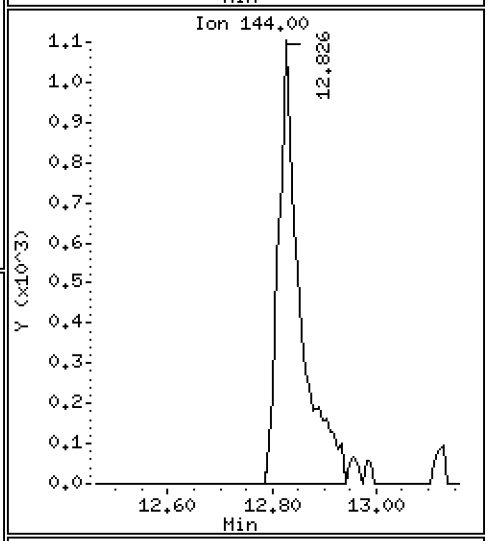


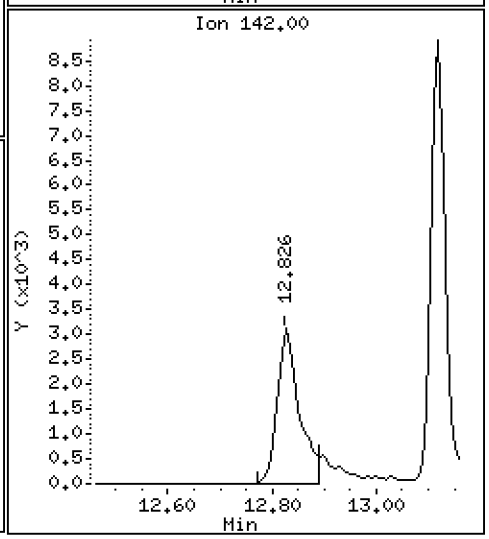












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

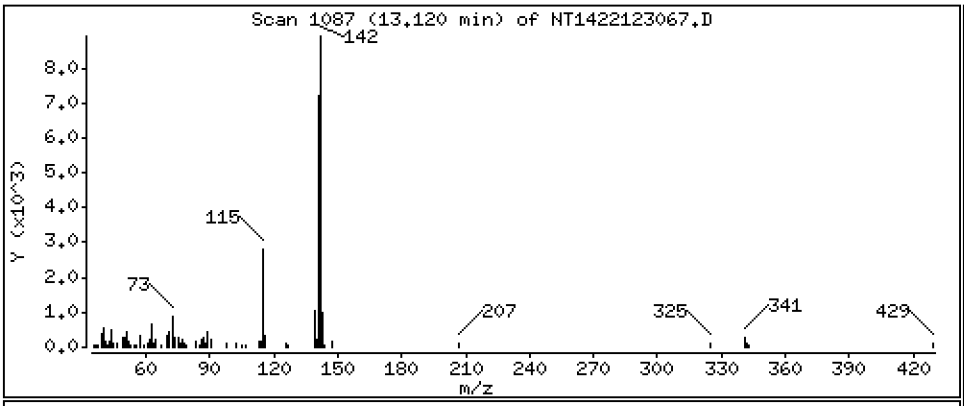
Operator: VTS

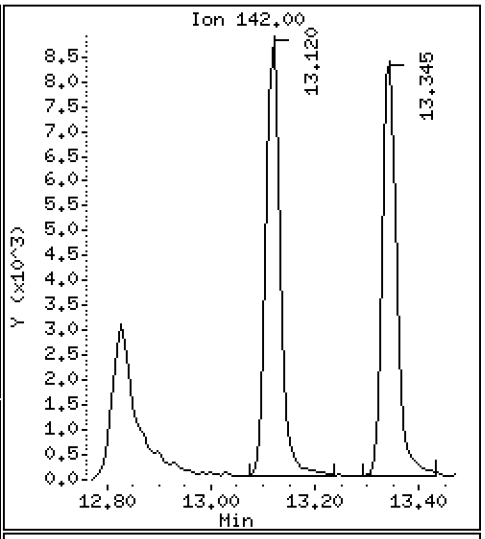
Column phase: ZB-5msi

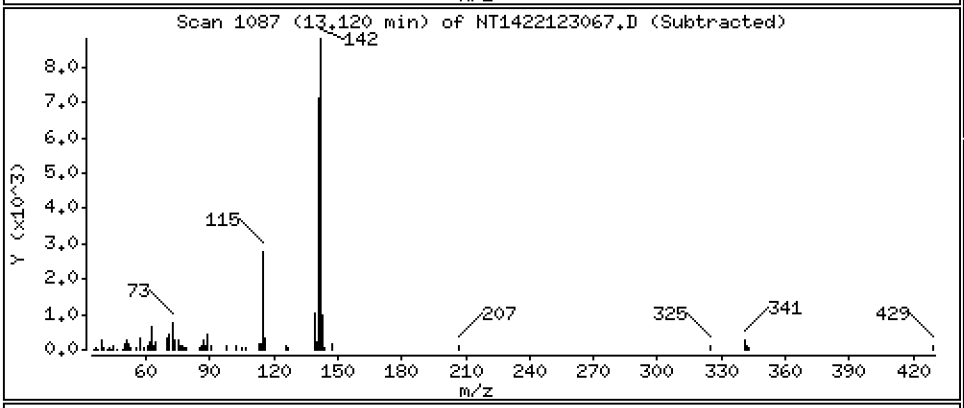
Column diameter: 0.25

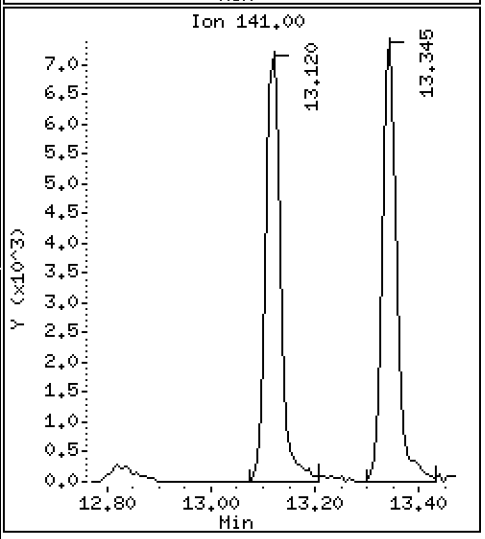
32 2-Methylnaphthalene

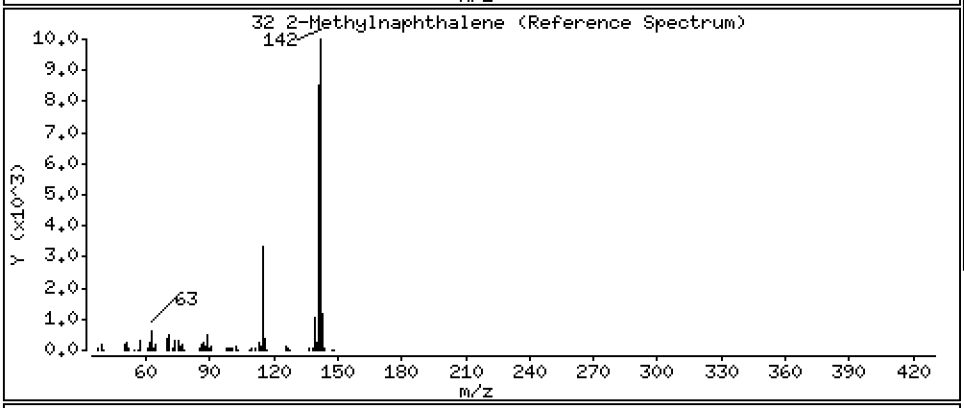
Concentration: 0.2270 ug/mL

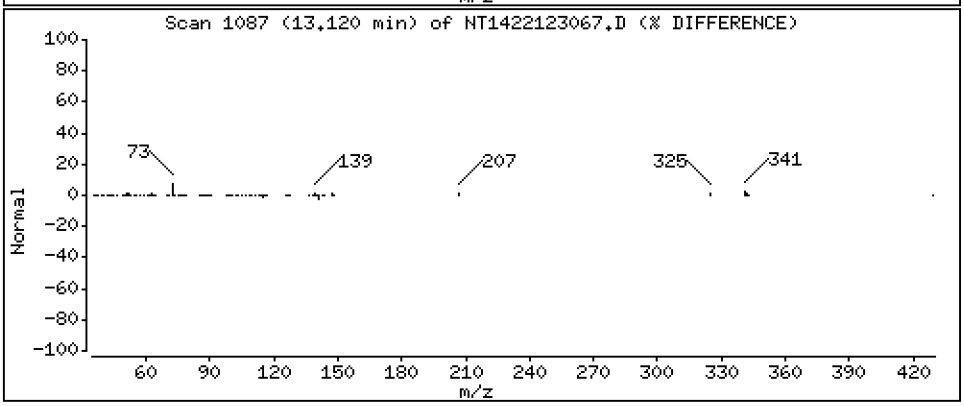












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

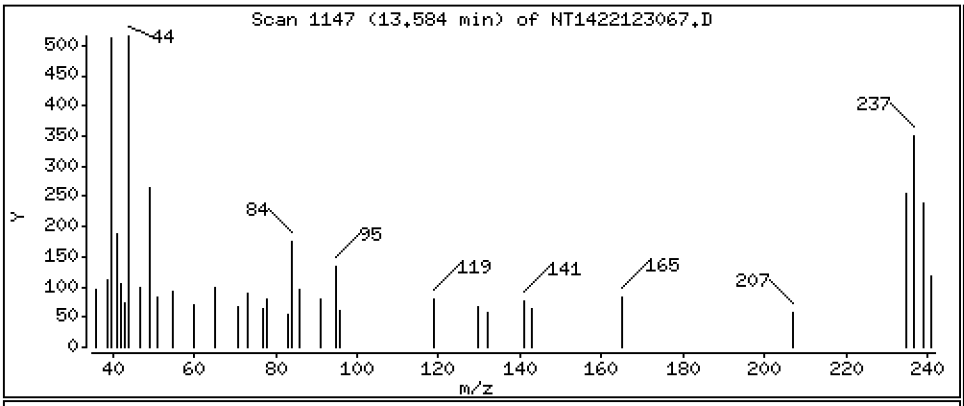
Operator: VTS

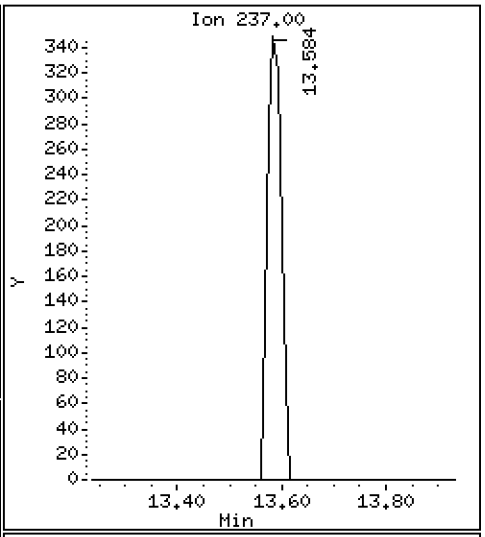
Column phase: ZB-5msi

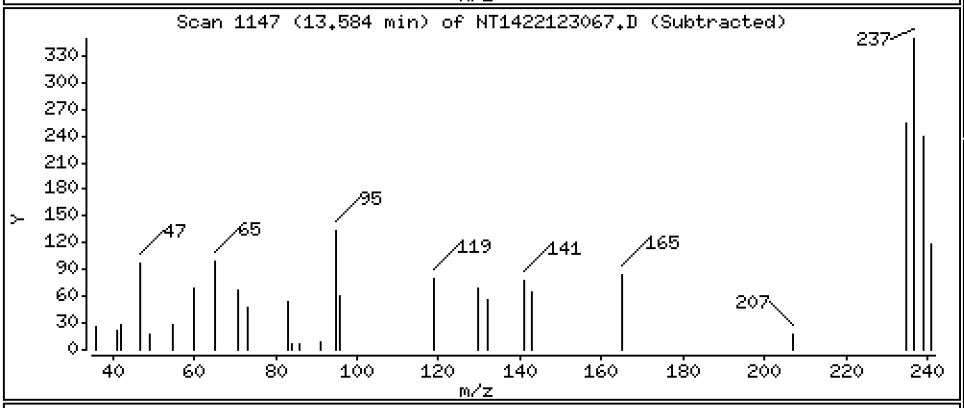
Column diameter: 0.25

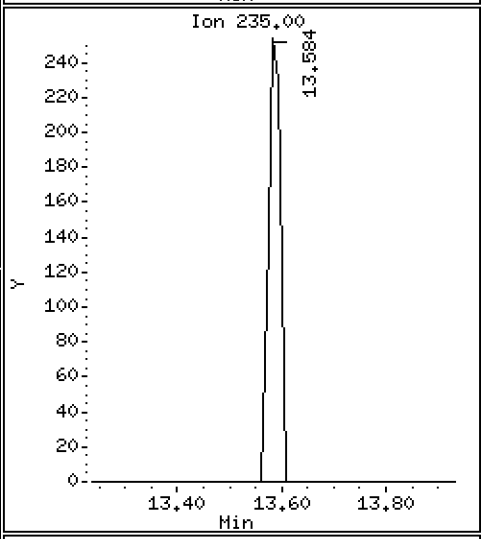
33 Hexachlorocyclopentadiene

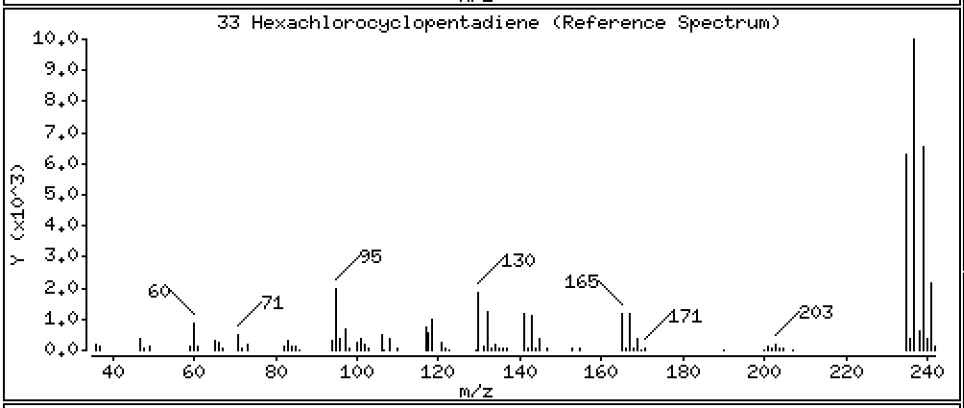
Concentration: 0.04042 ug/mL

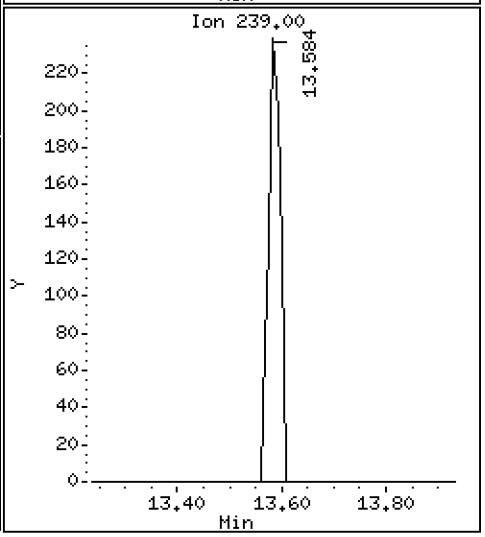


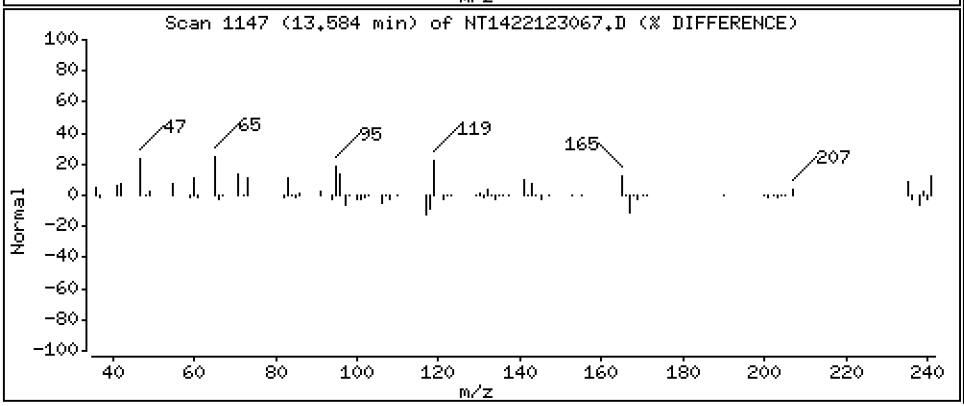












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

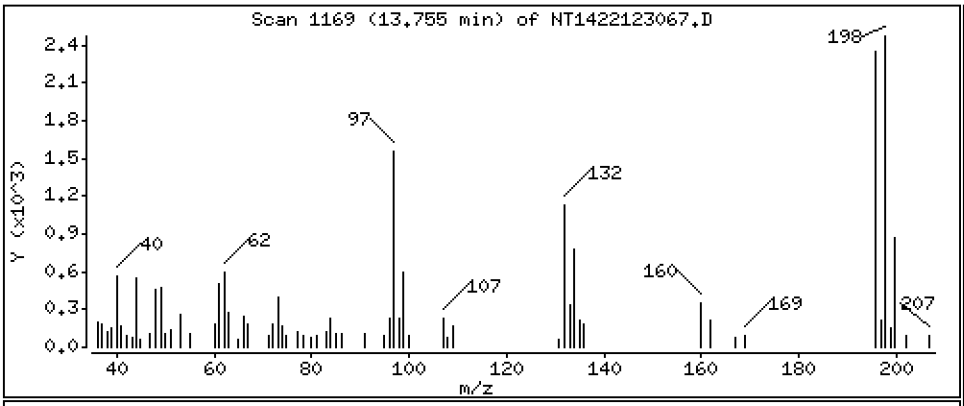
Operator: VTS

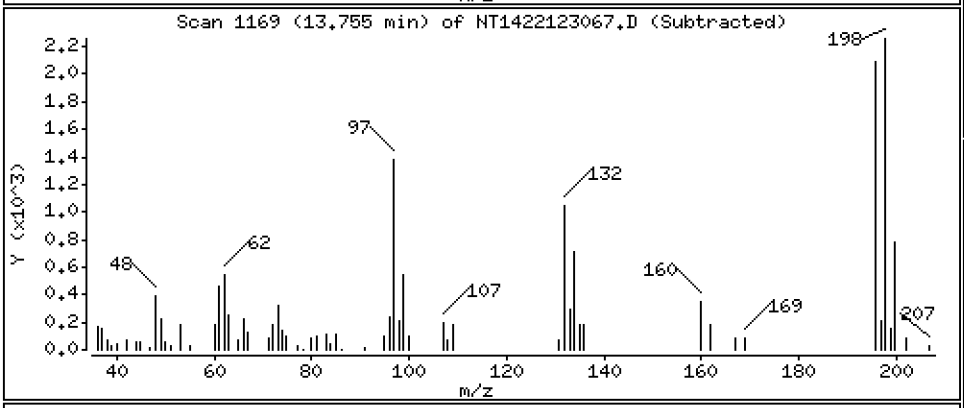
Column phase: ZB-5msi

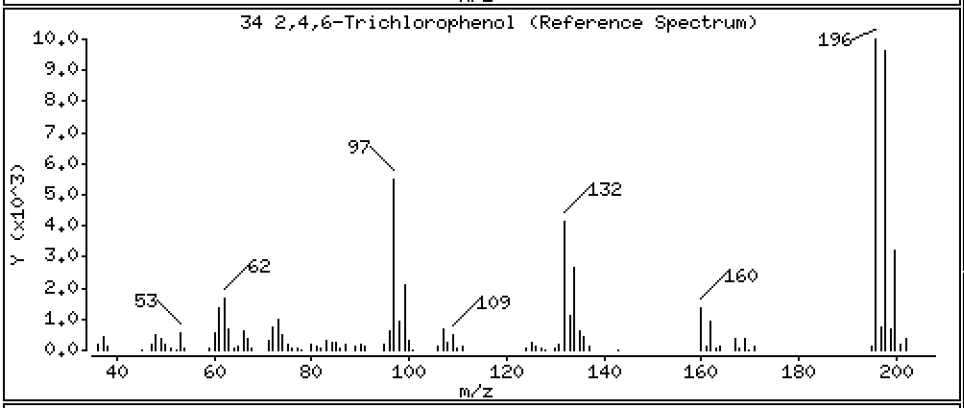
Column diameter: 0.25

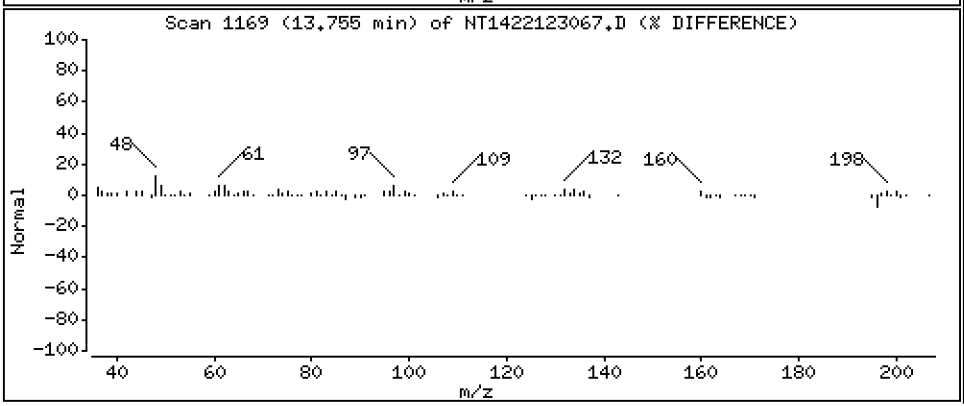
34 2,4,6-Trichlorophenol

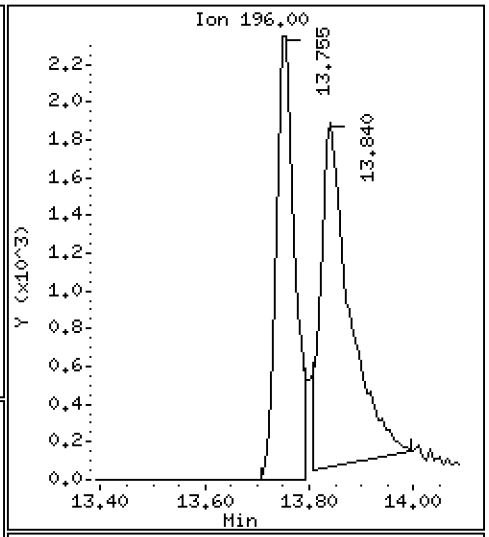
Concentration: 0.3442 ug/mL

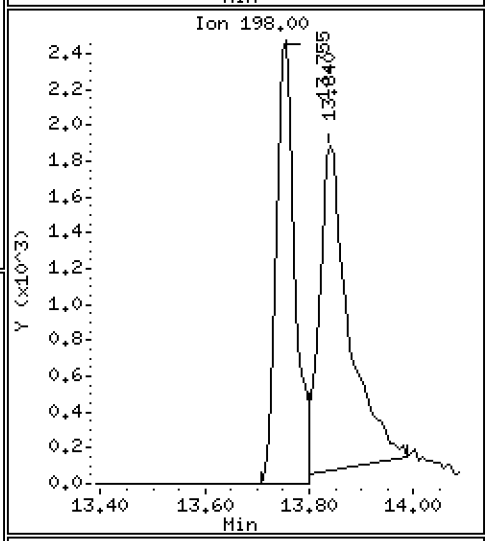


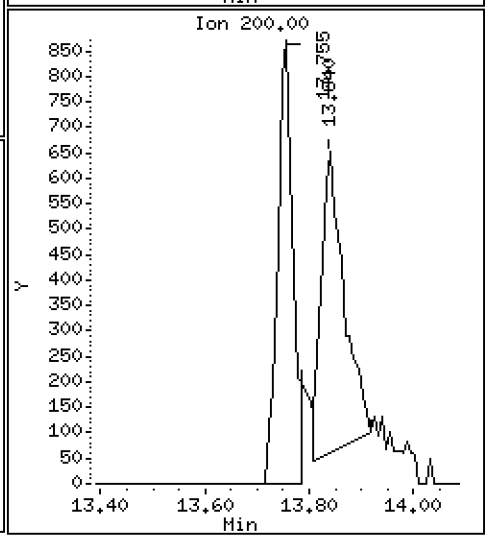












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

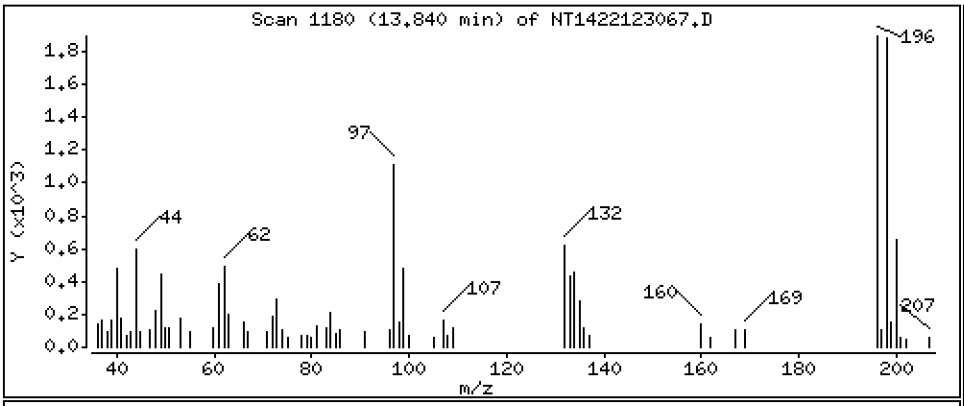
Operator: VTS

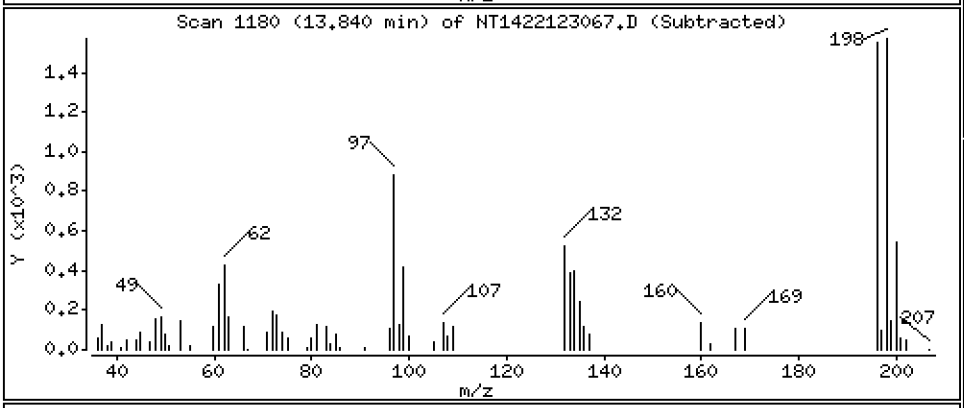
Column phase: ZB-5msi

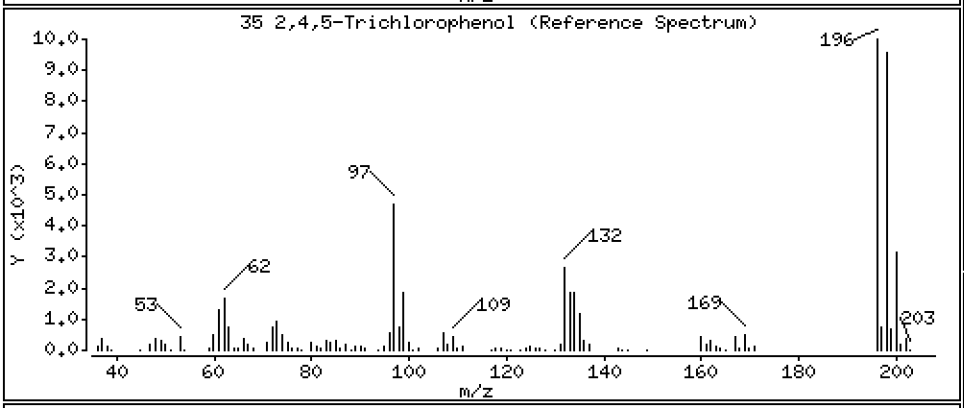
Column diameter: 0.25

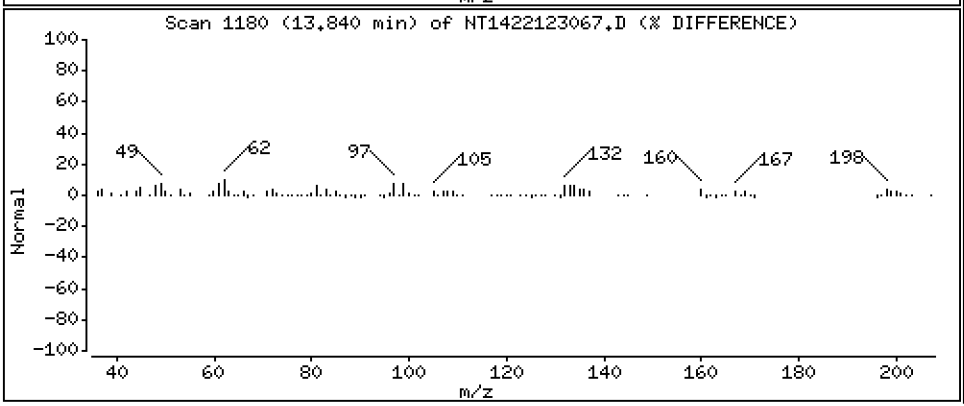
35 2,4,5-Trichlorophenol

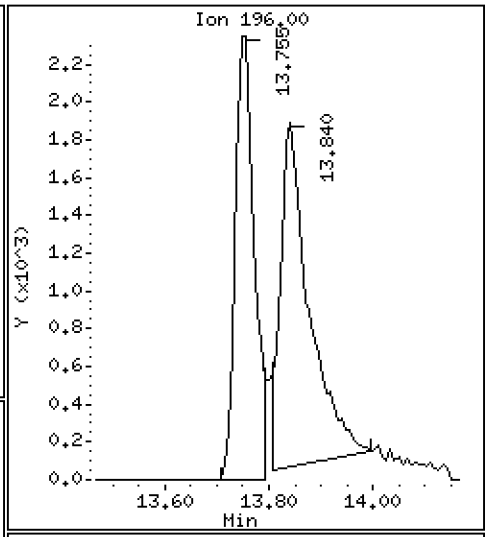
Concentration: 0.3604 ug/mL

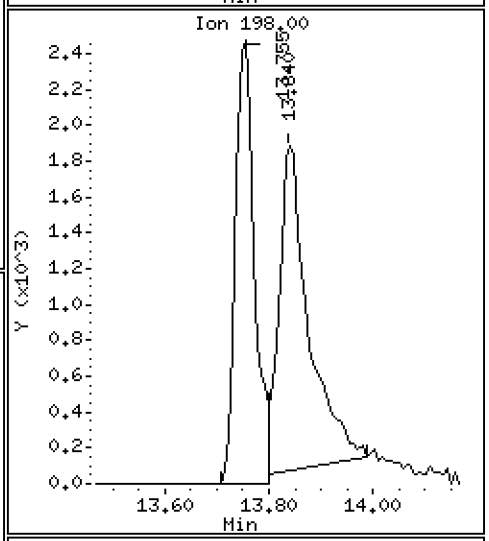


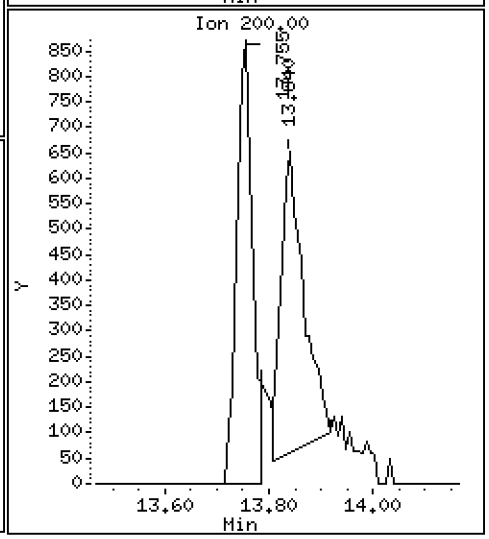












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

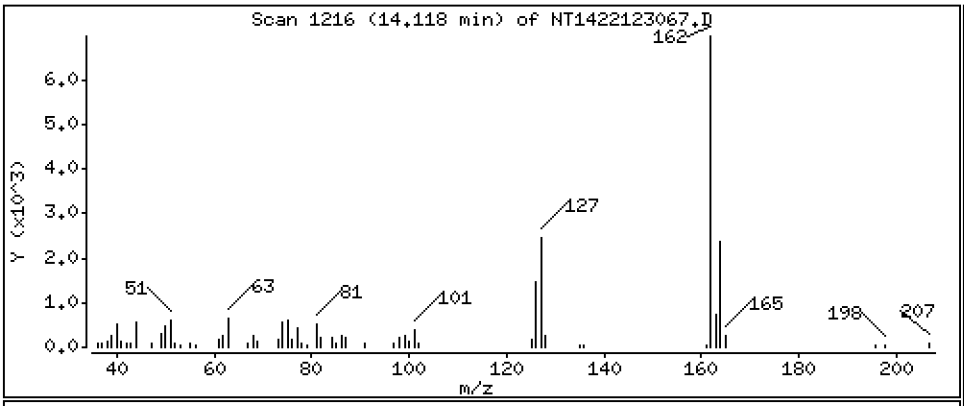
Operator: VTS

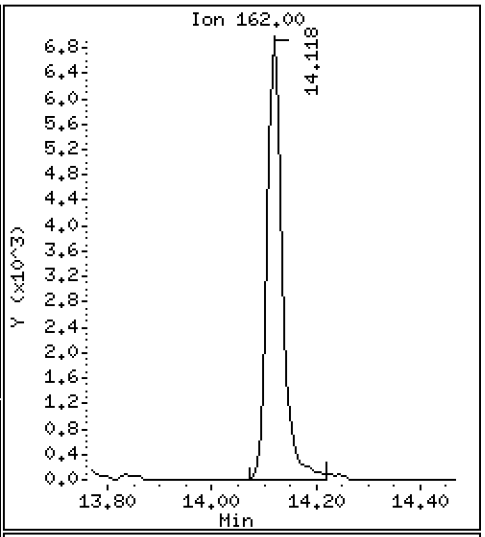
Column phase: ZB-5msi

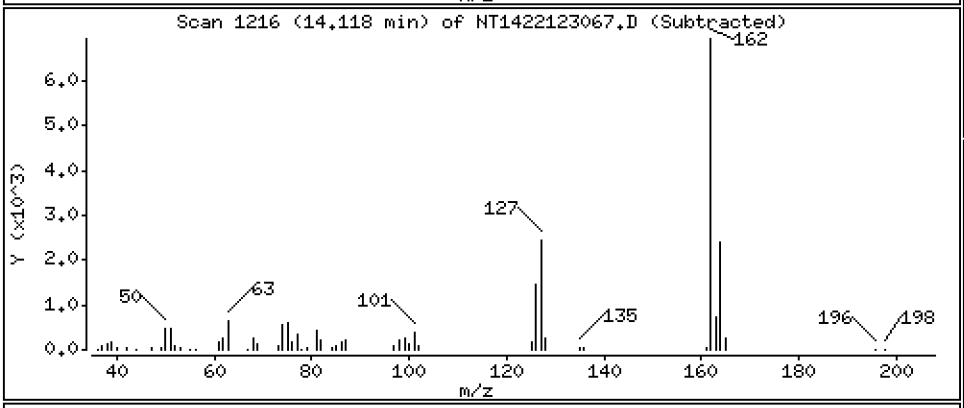
Column diameter: 0.25

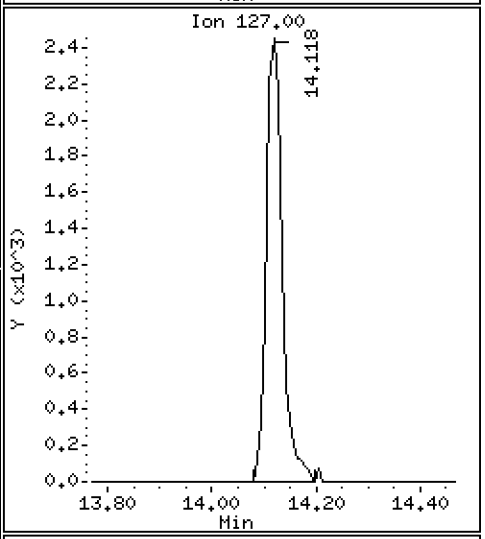
37 2-Chloronaphthalene

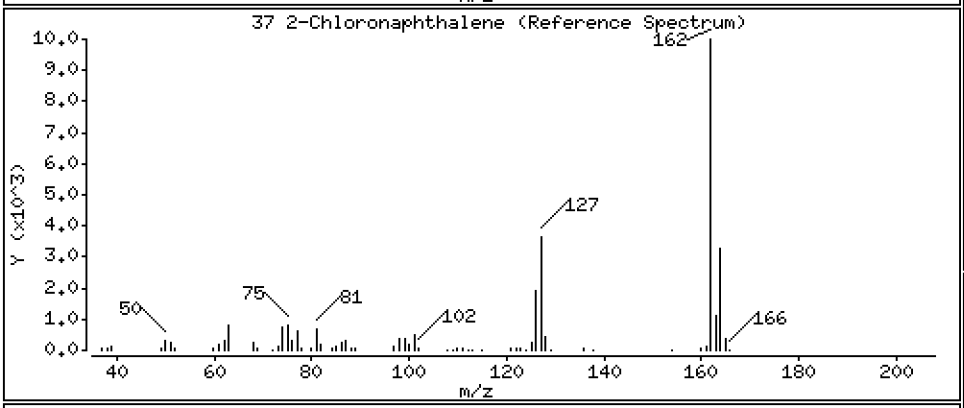
Concentration: 0.2346 ug/mL

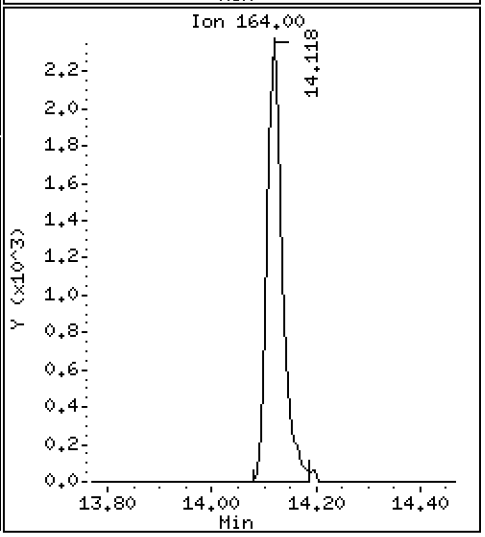


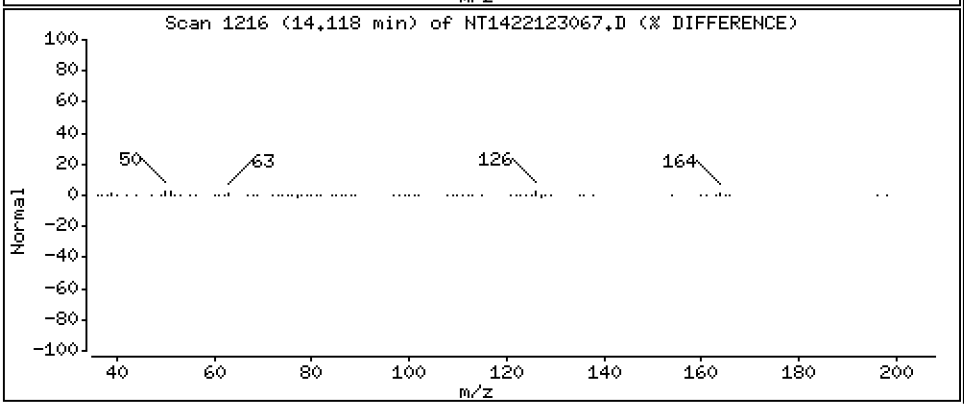












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

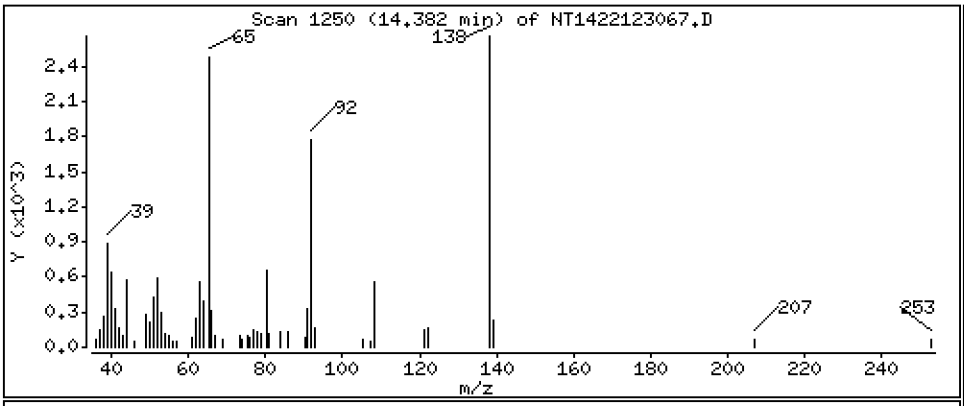
Operator: VTS

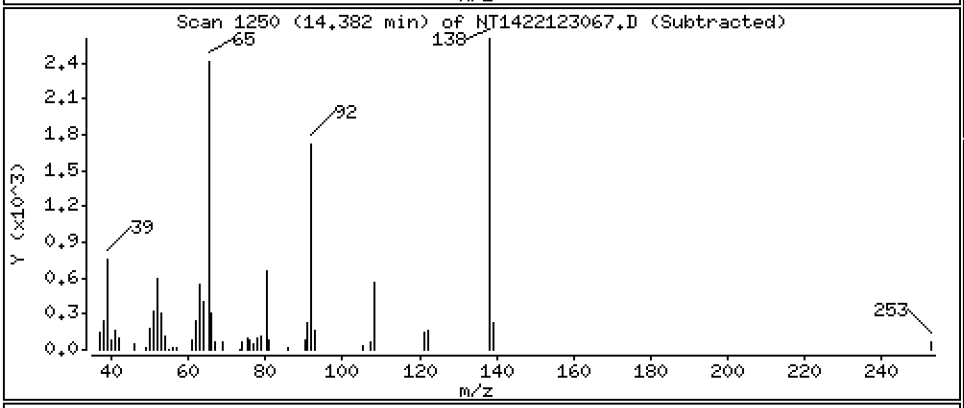
Column phase: ZB-5msi

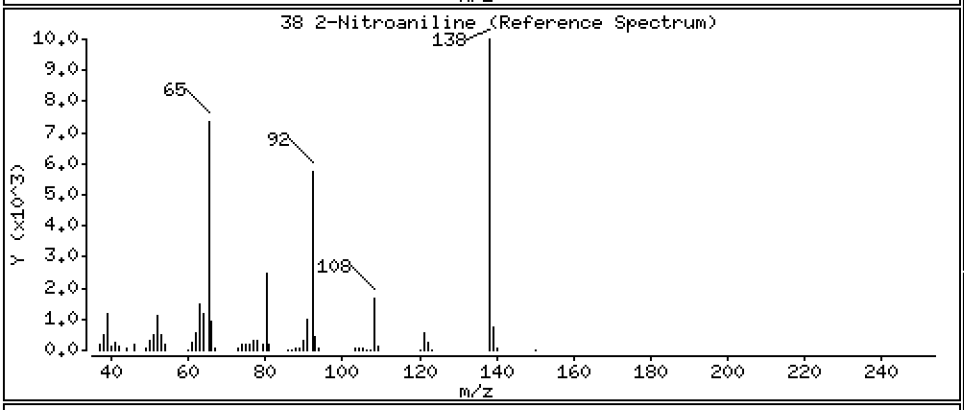
Column diameter: 0.25

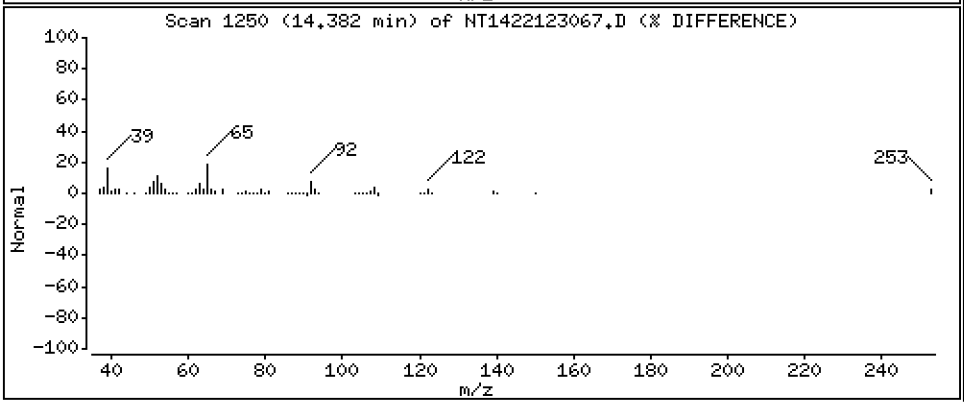
38 2-Nitroaniline

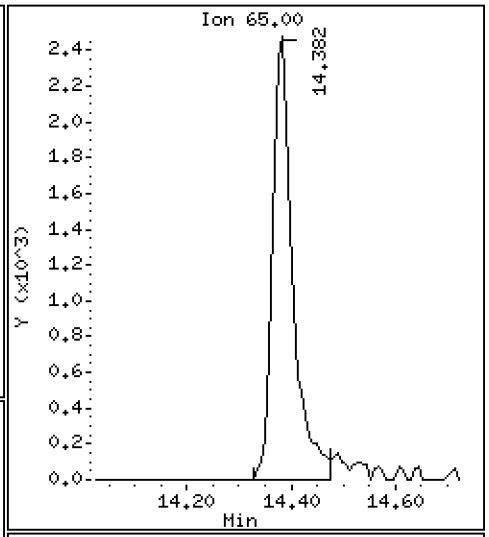
Concentration: 0.4296 ug/mL

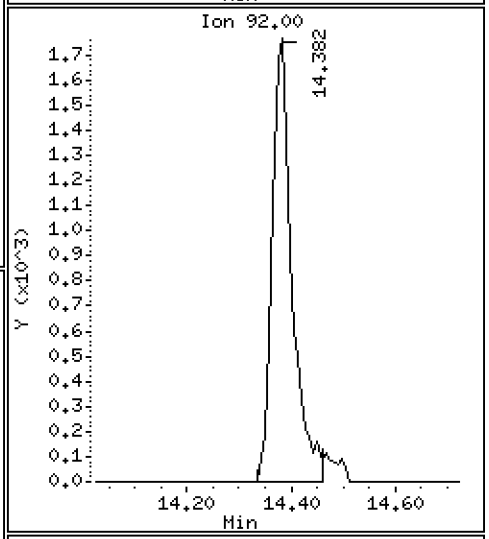


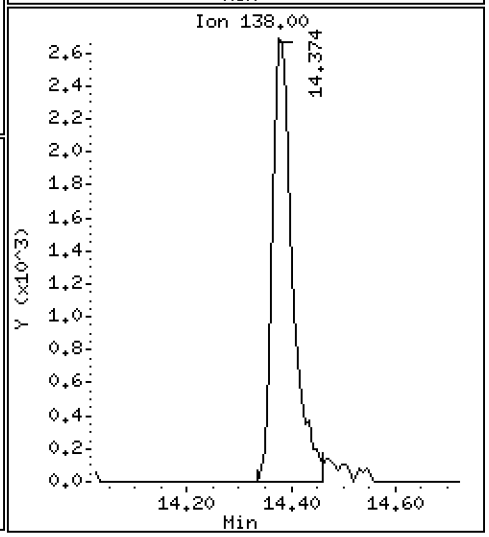












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

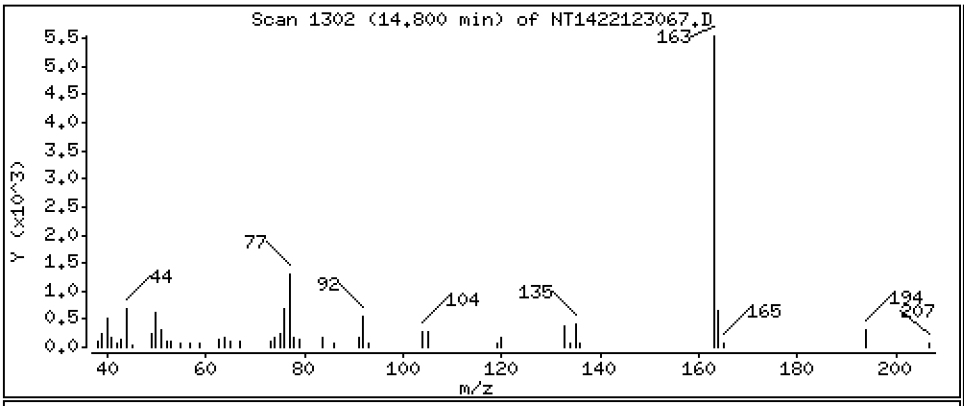
Operator: VTS

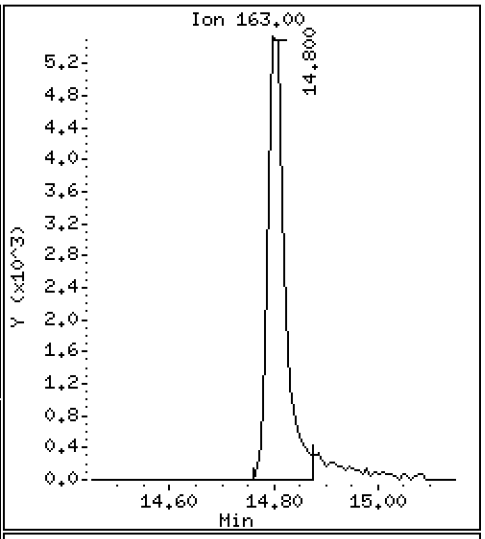
Column phase: ZB-5msi

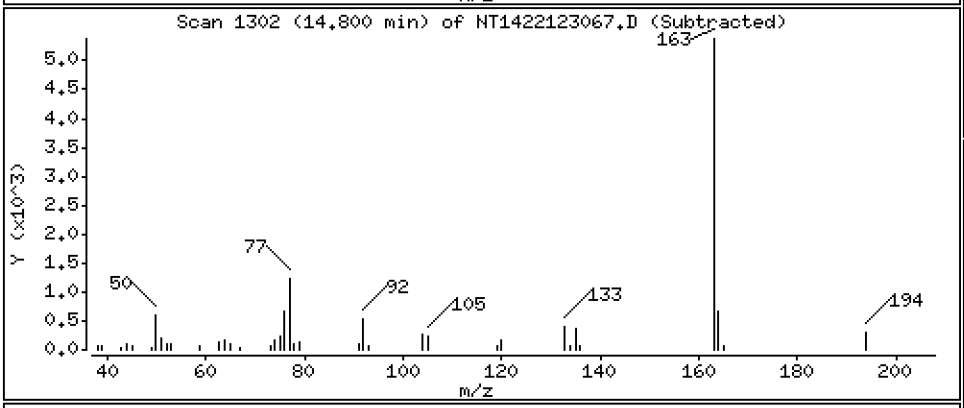
Column diameter: 0.25

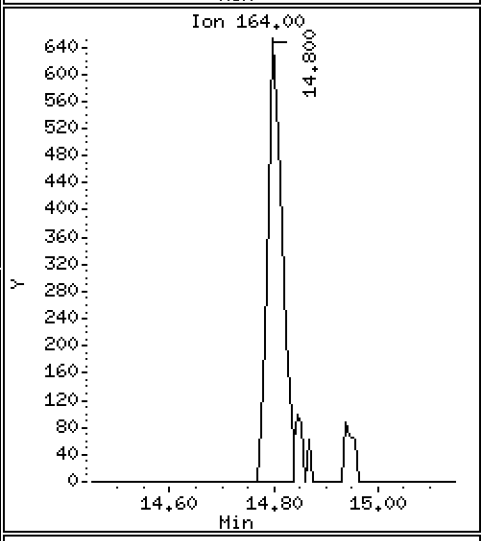
39 Dimethylphthalate

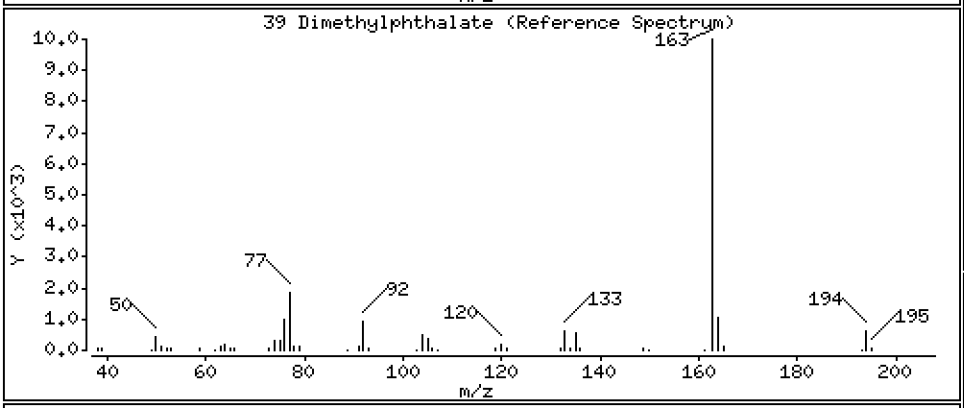
Concentration: 0.2138 ug/mL

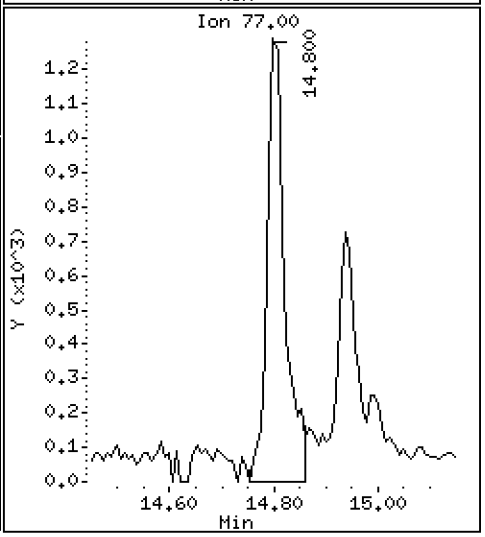


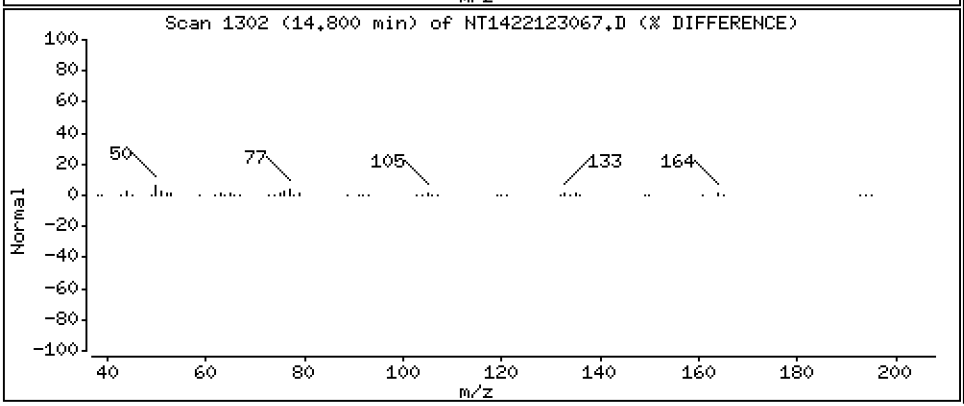












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

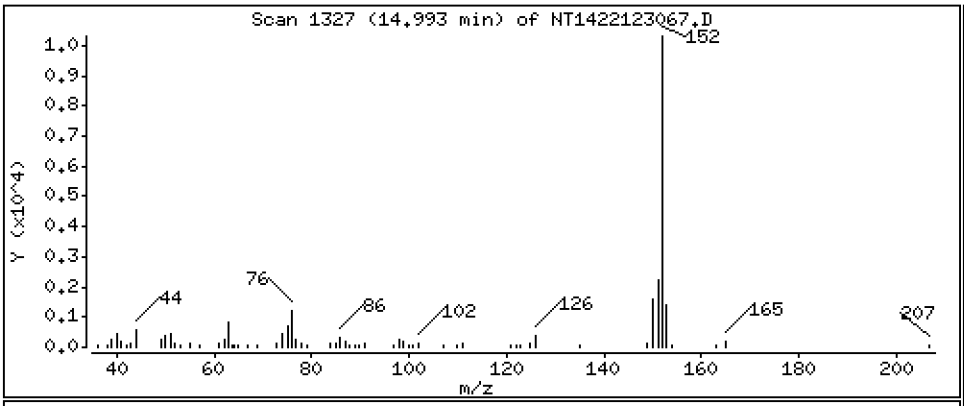
Operator: VTS

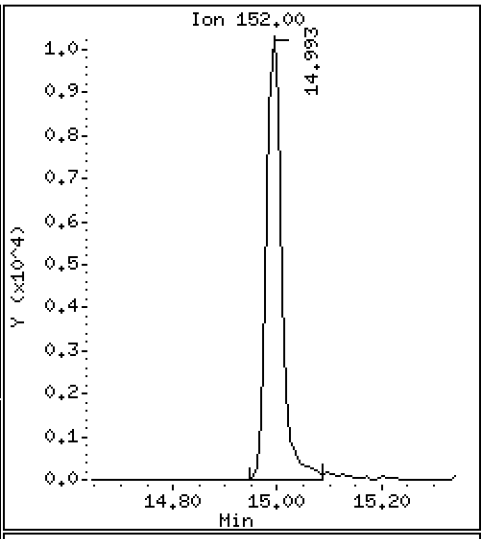
Column phase: ZB-5msi

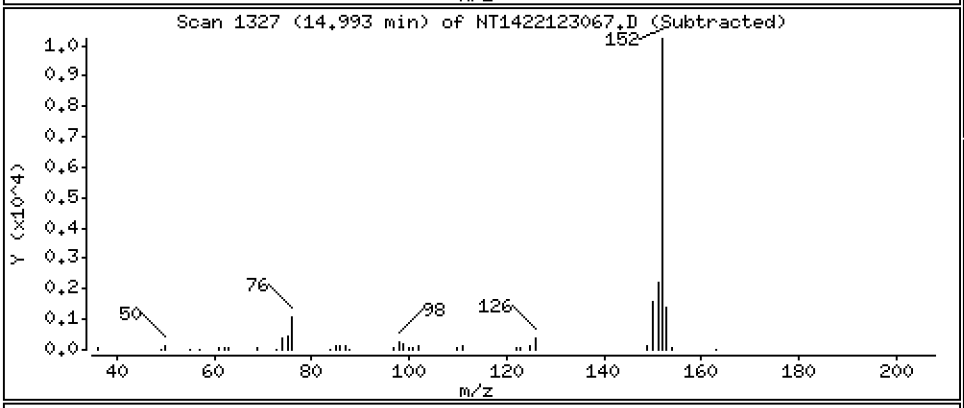
Column diameter: 0.25

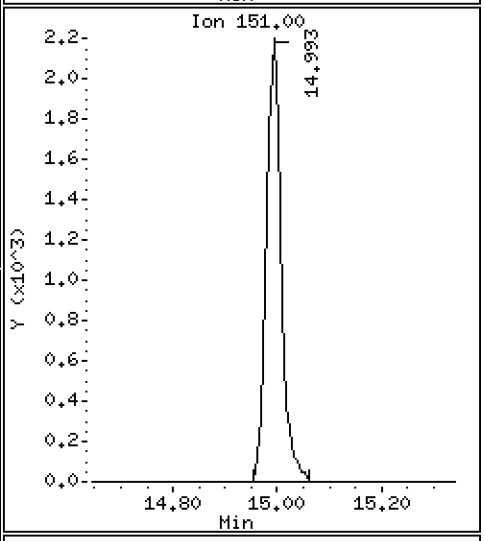
40 Acenaphthylene

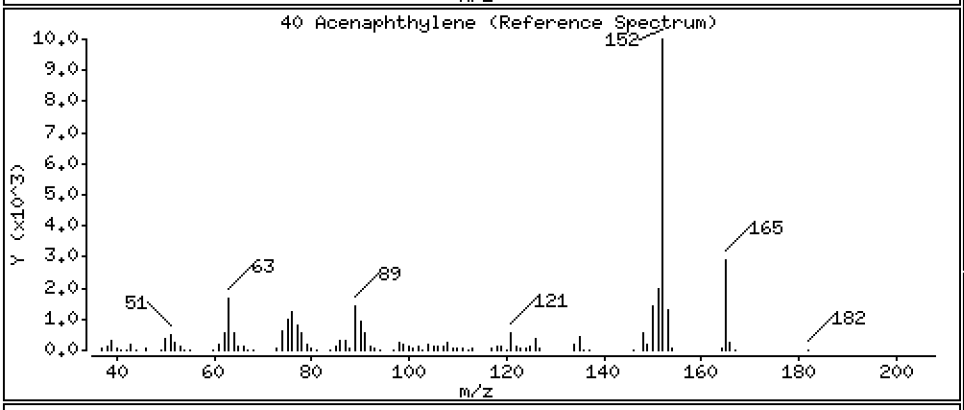
Concentration: 0.2291 ug/mL

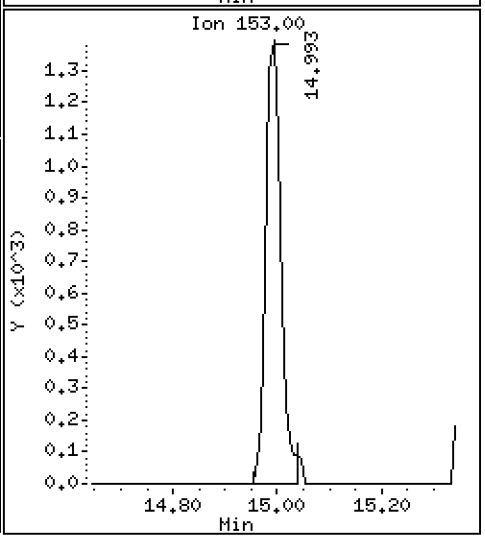


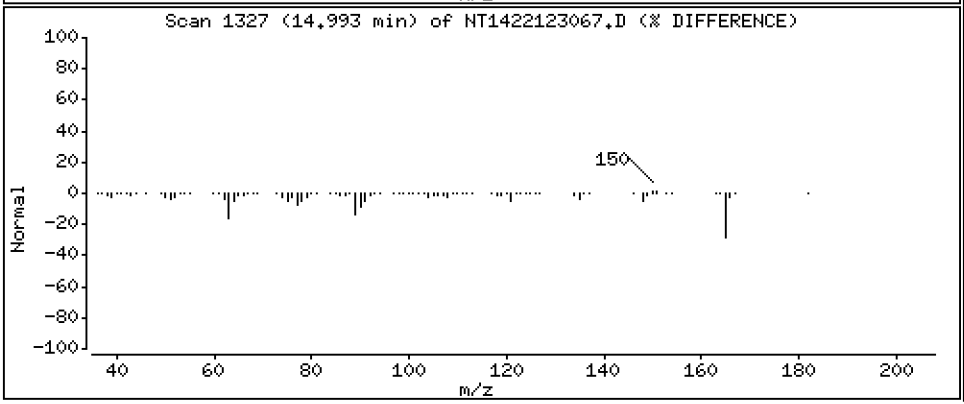












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

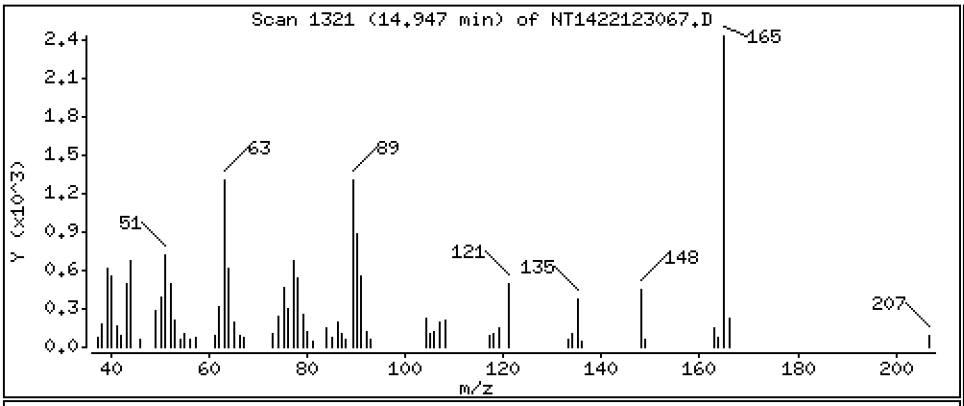
Operator: VTS

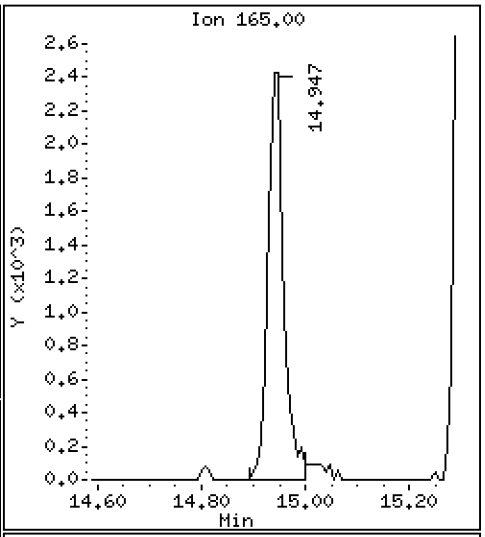
Column phase: ZB-5msi

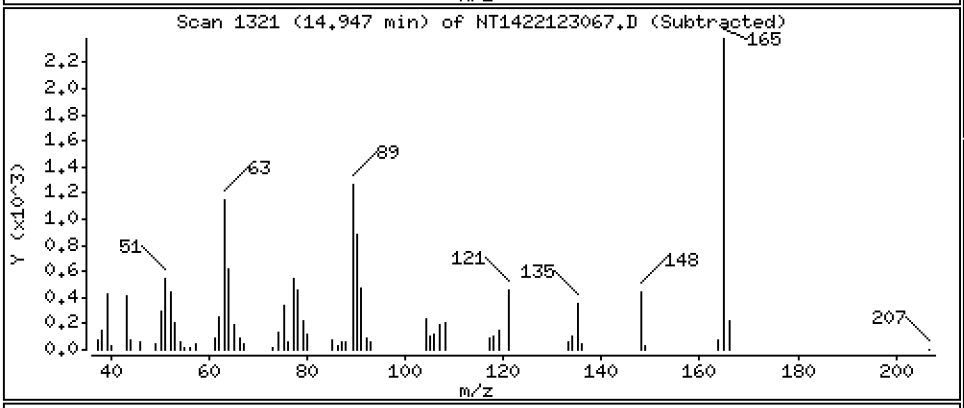
Column diameter: 0.25

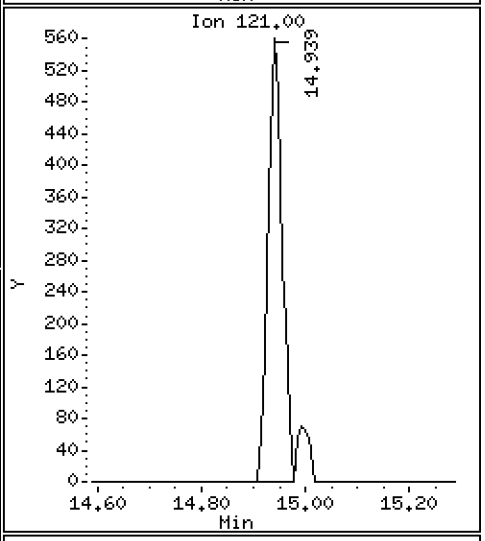
41 2,6-Dinitrotoluene

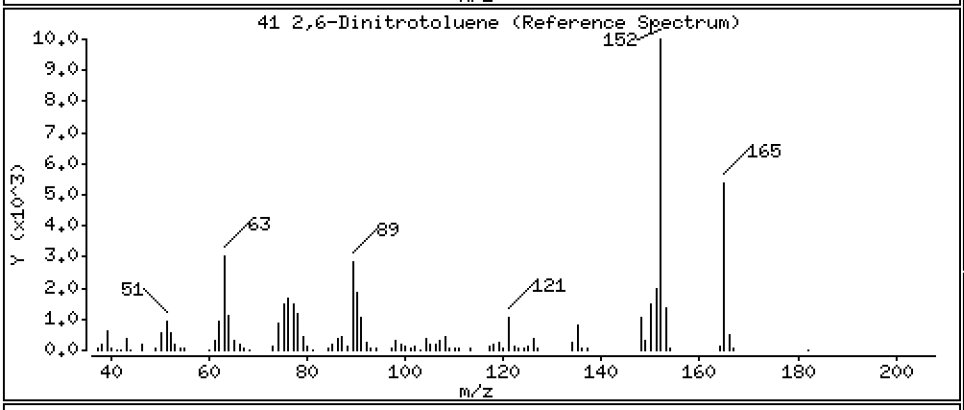
Concentration: 0.3820 ug/mL

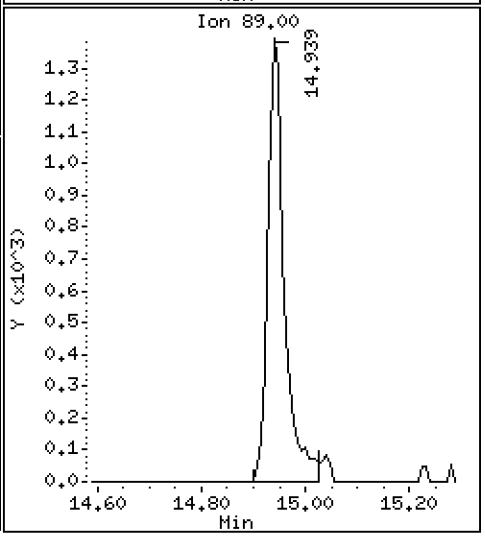


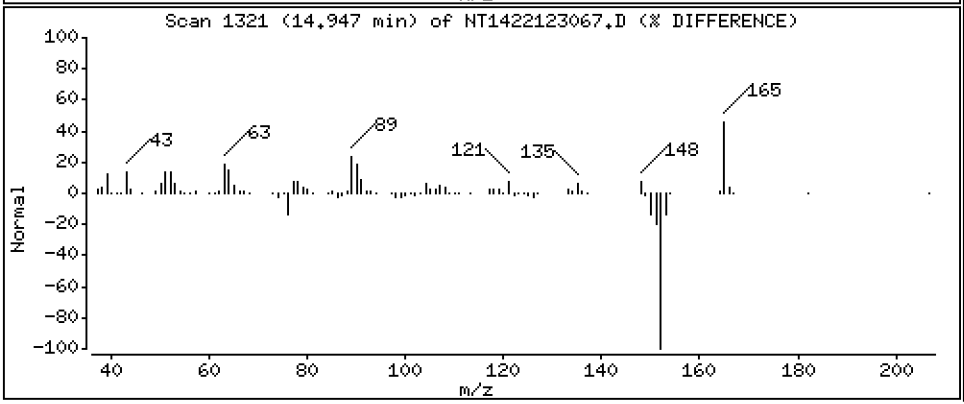












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

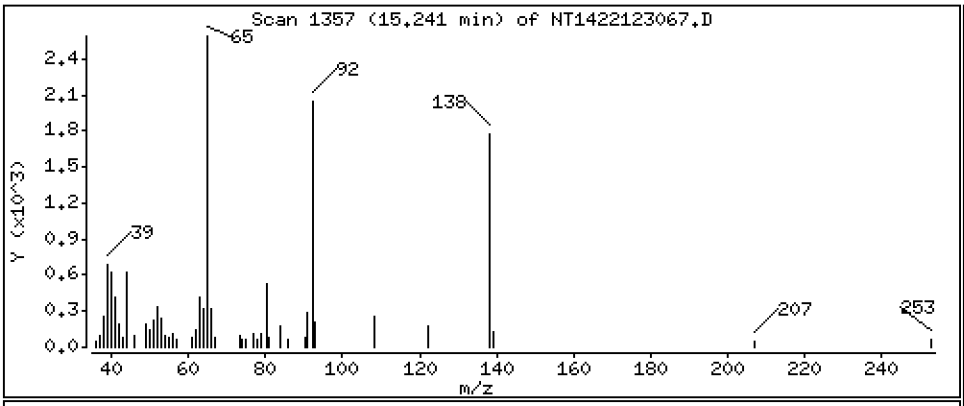
Operator: VTS

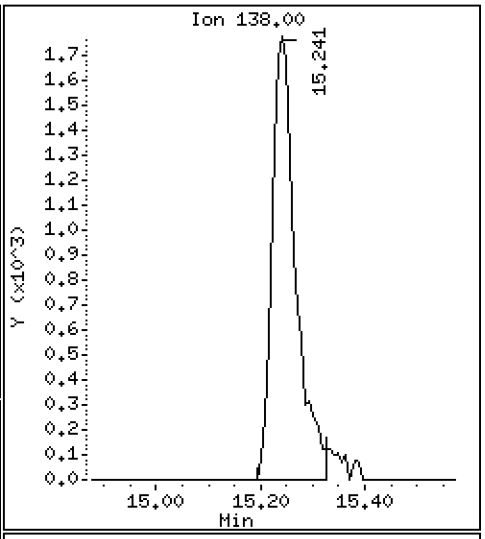
Column phase: ZB-5msi

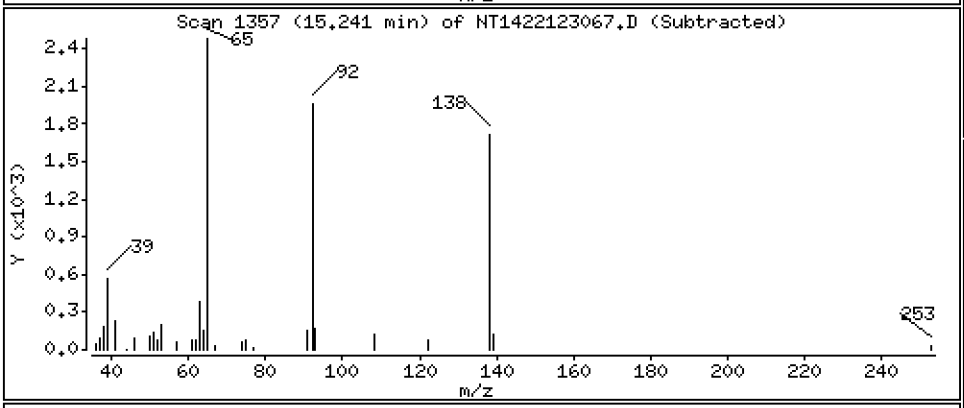
Column diameter: 0.25

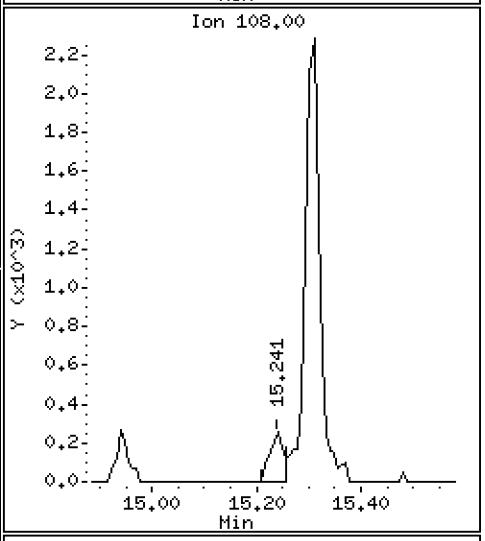
43 3-Nitroaniline

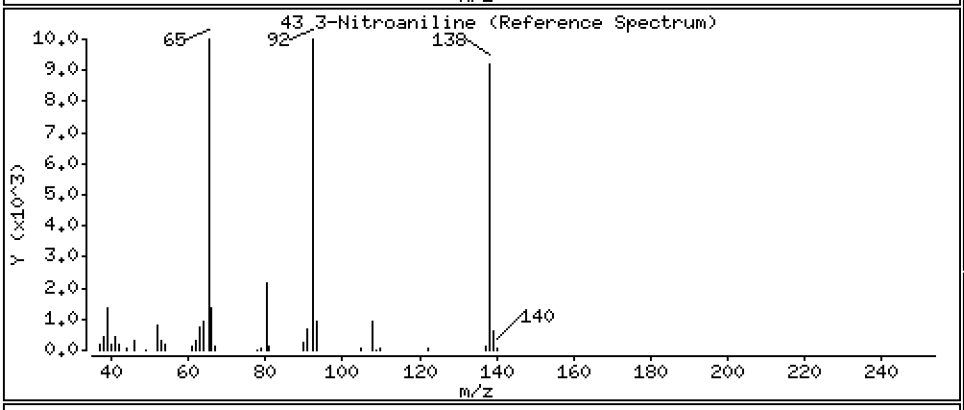
Concentration: 0.3563 ug/mL

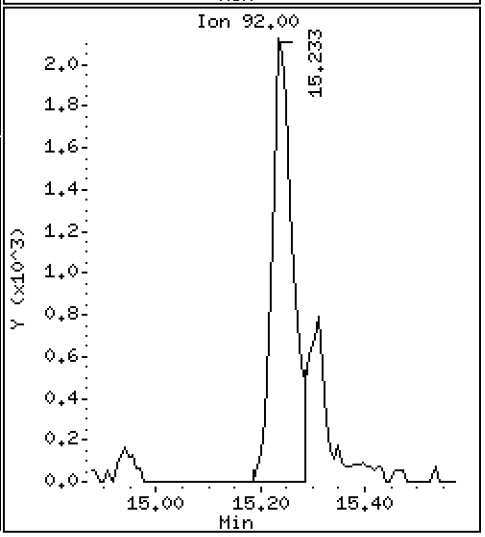


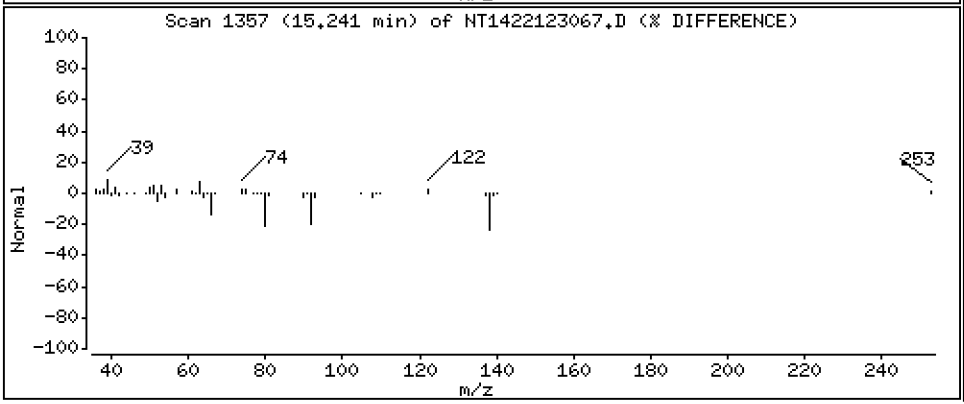












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

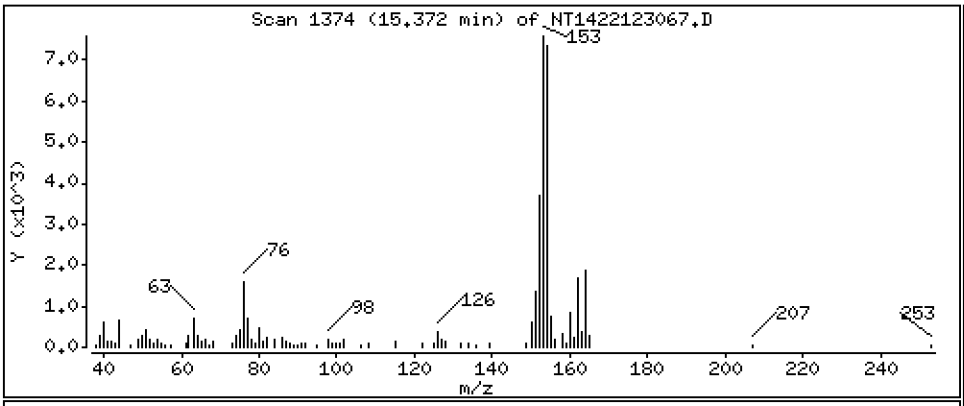
Operator: VTS

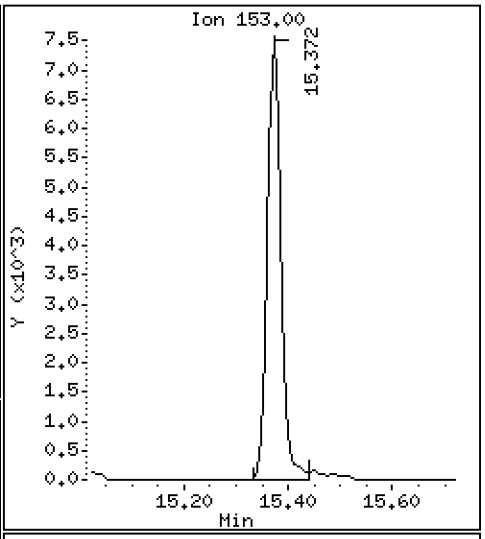
Column phase: ZB-5msi

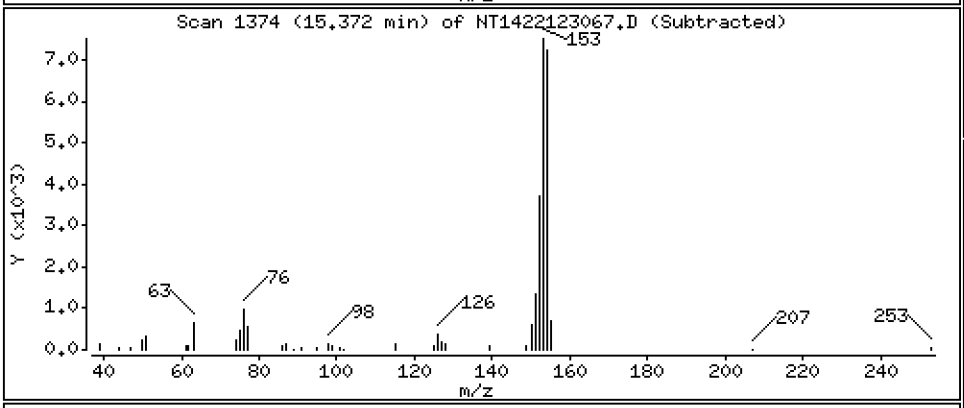
Column diameter: 0.25

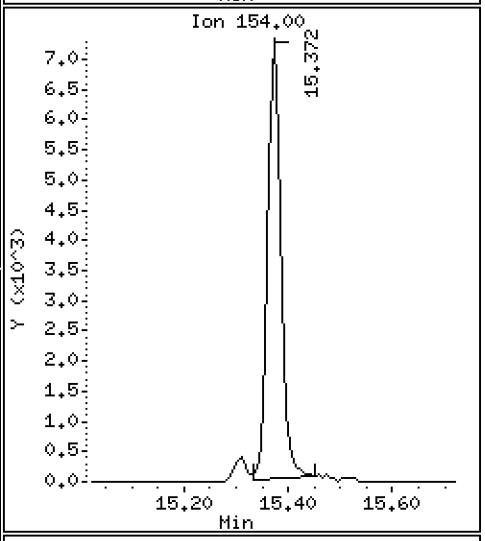
44 Acenaphthene

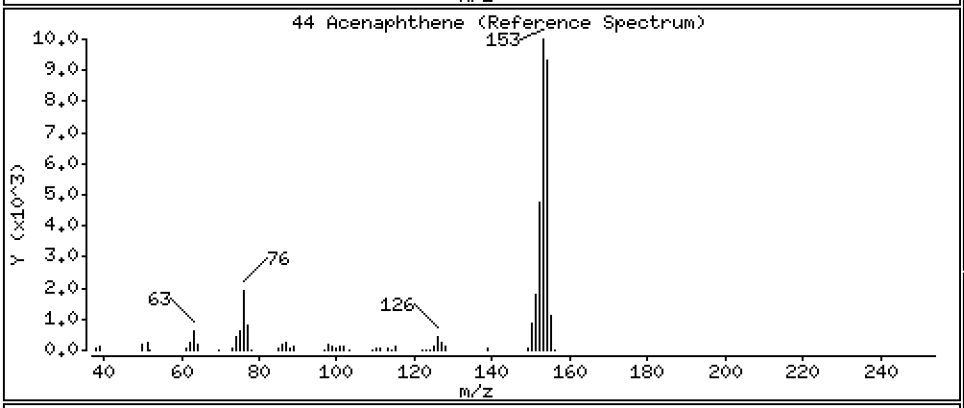
Concentration: 0.2358 ug/mL

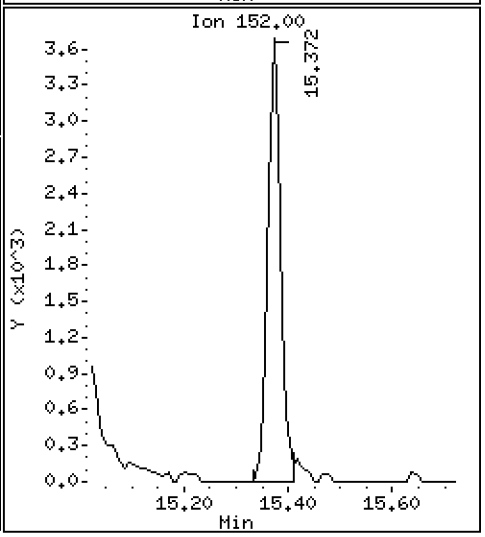


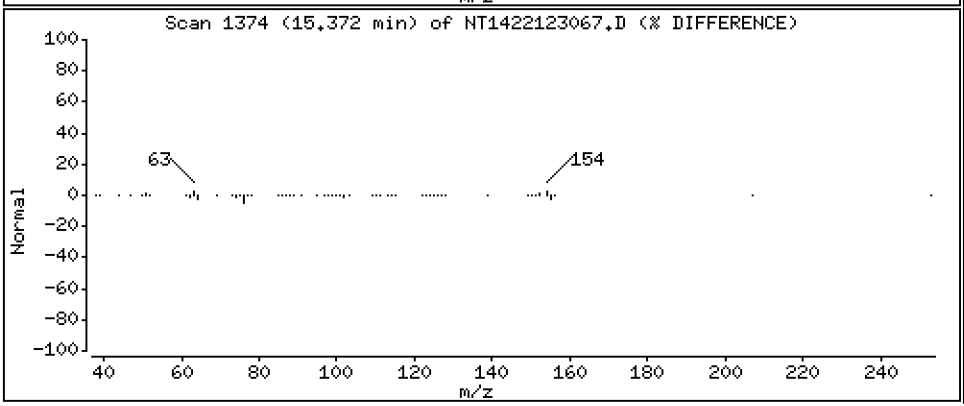












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

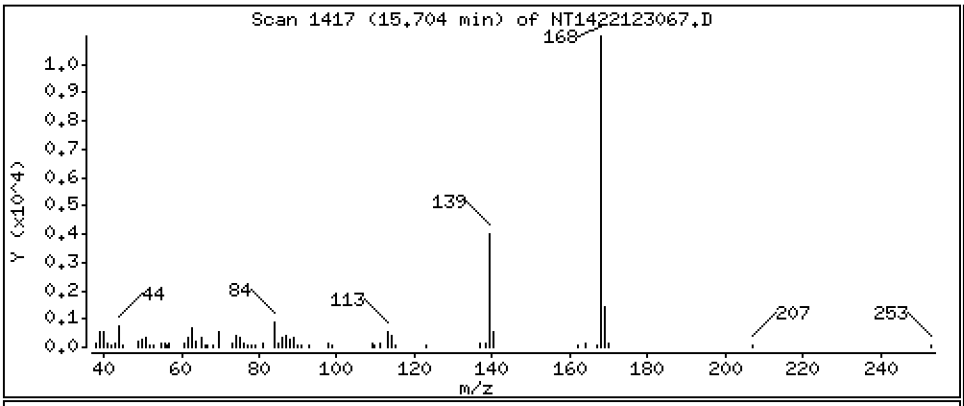
Operator: VTS

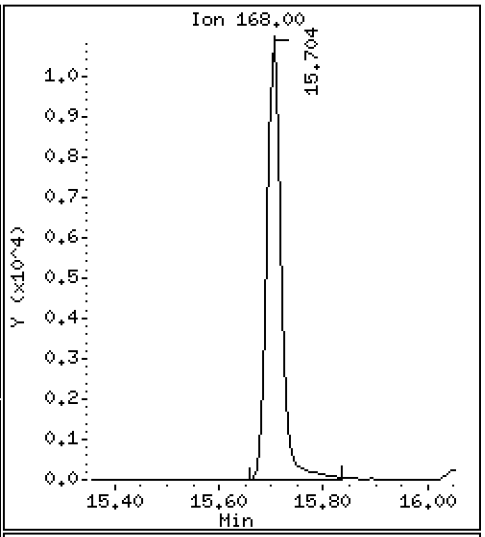
Column phase: ZB-5msi

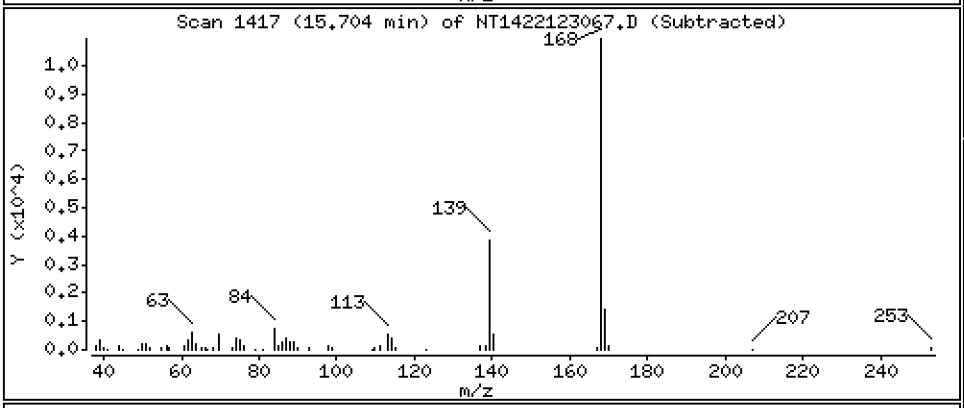
Column diameter: 0.25

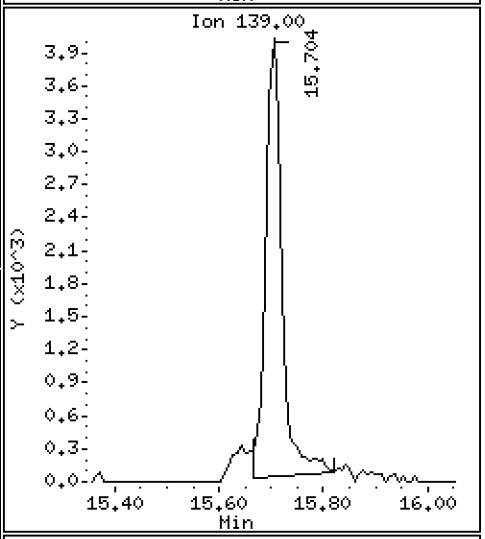
46 Dibenzofuran

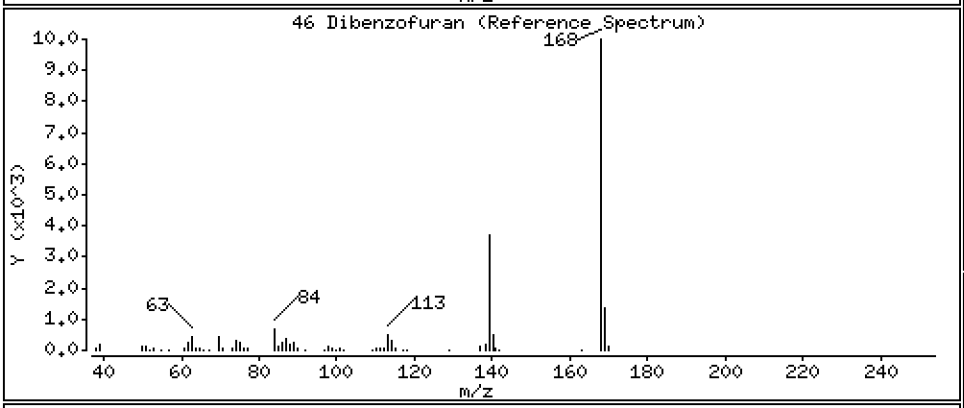
Concentration: 0.2405 ug/mL

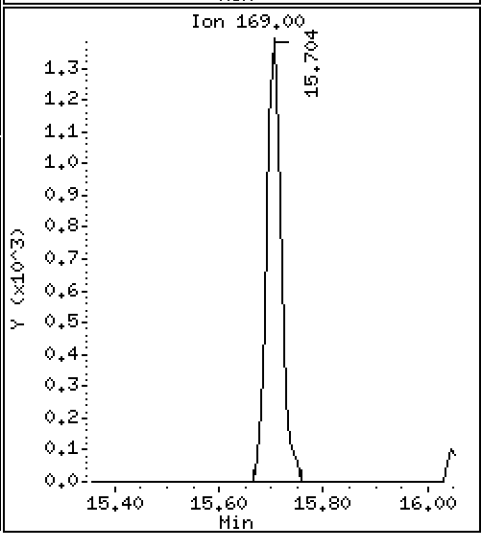


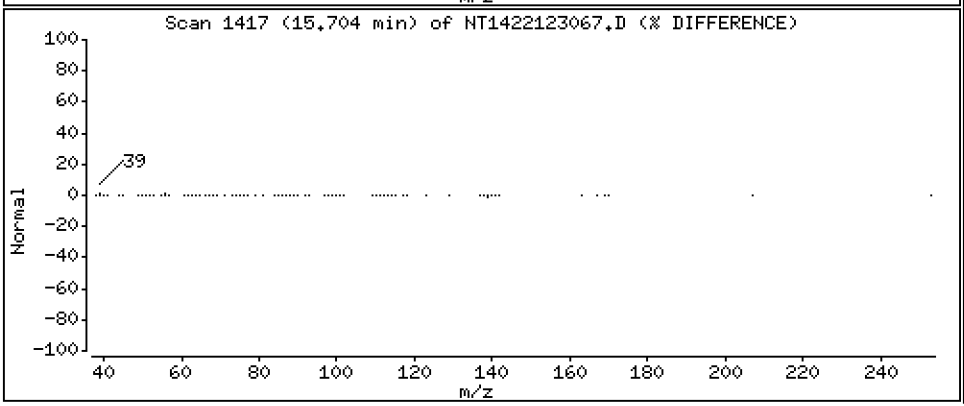












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

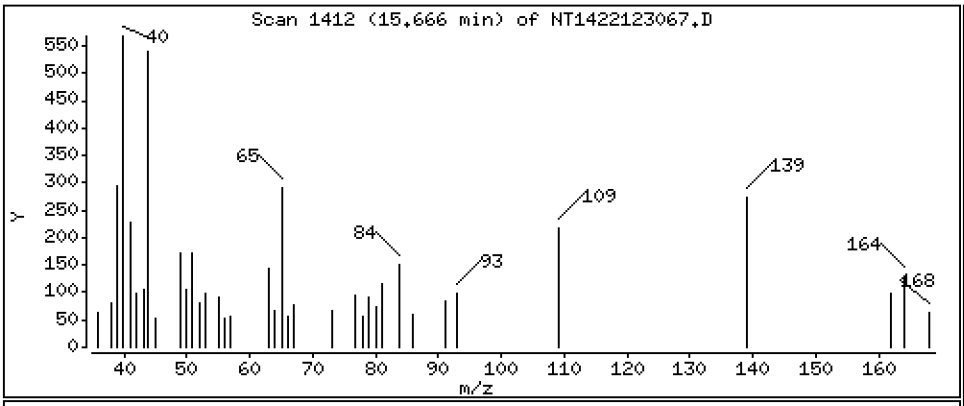
Operator: VTS

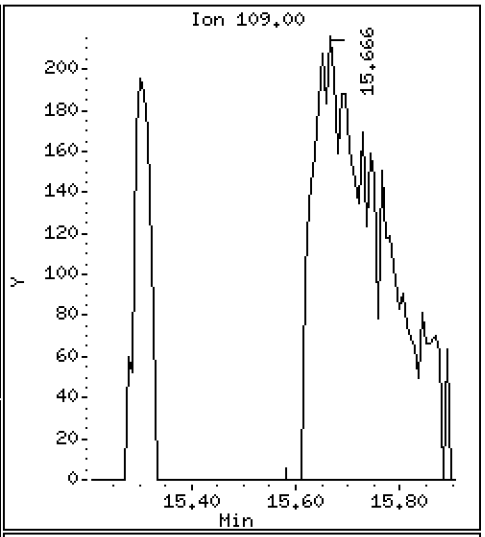
Column phase: ZB-5msi

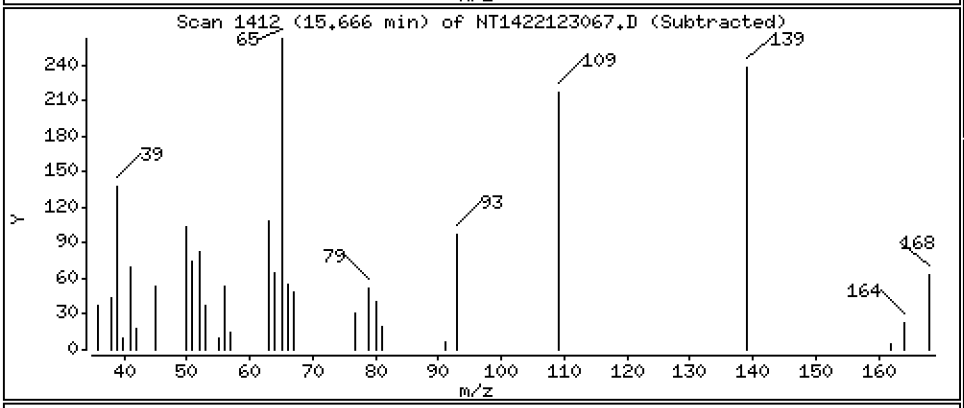
Column diameter: 0.25

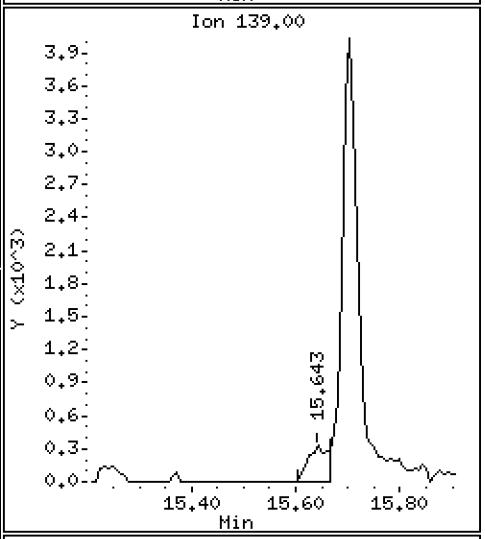
47 4-Nitrophenol

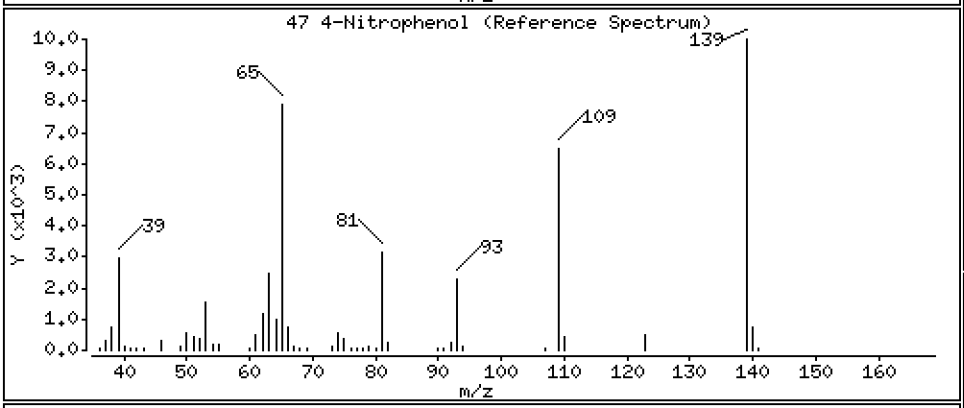
Concentration: 0.2680 ug/mL

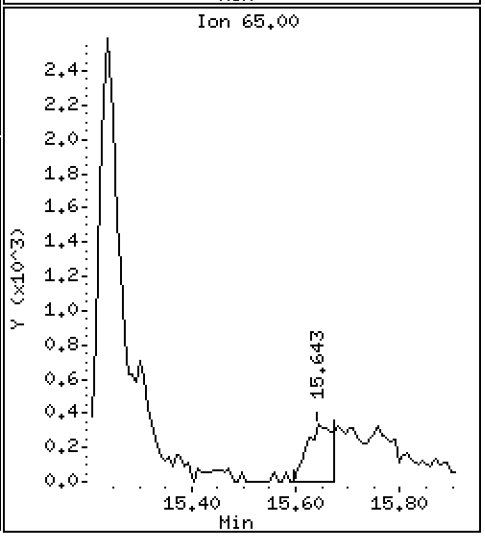


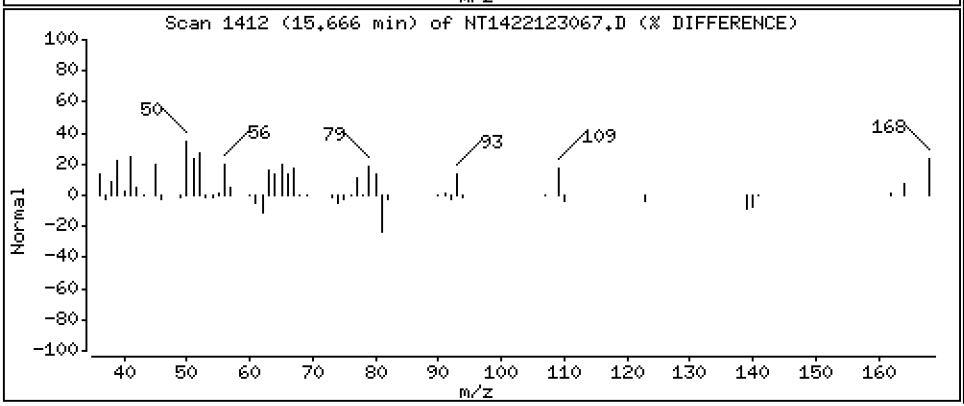












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

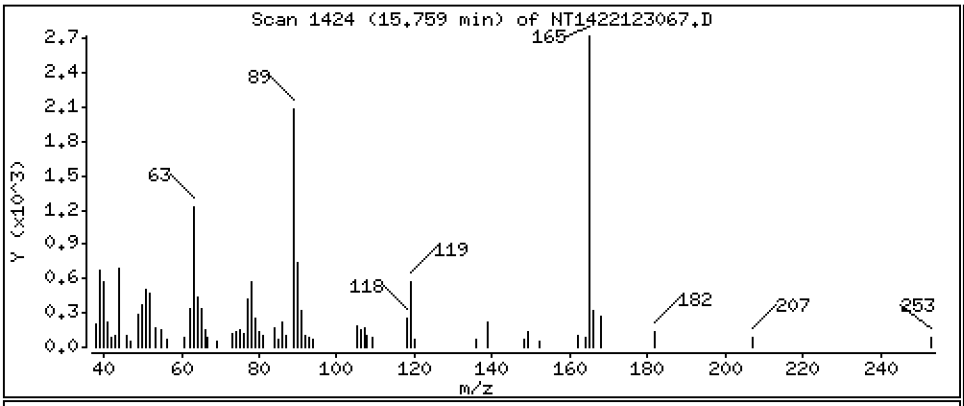
Operator: VTS

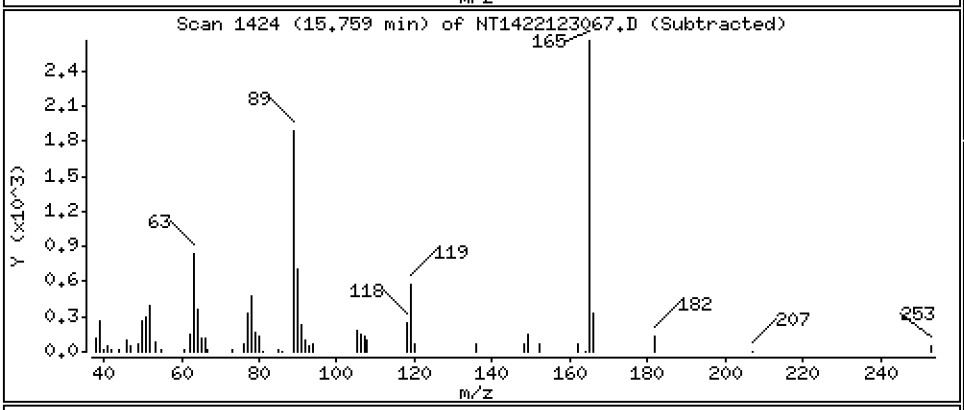
Column phase: ZB-5msi

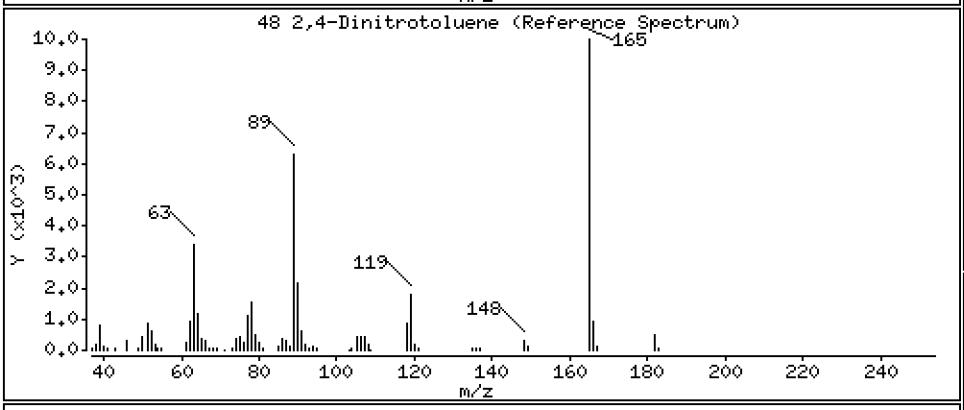
Column diameter: 0.25

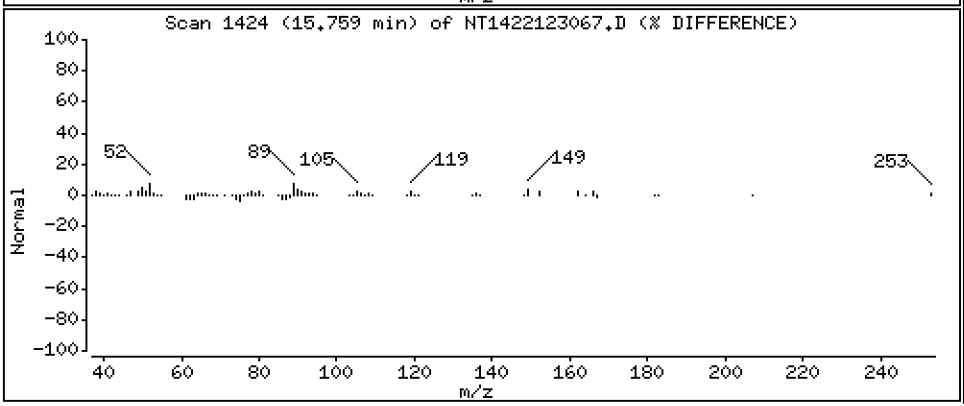
48 2,4-Dinitrotoluene

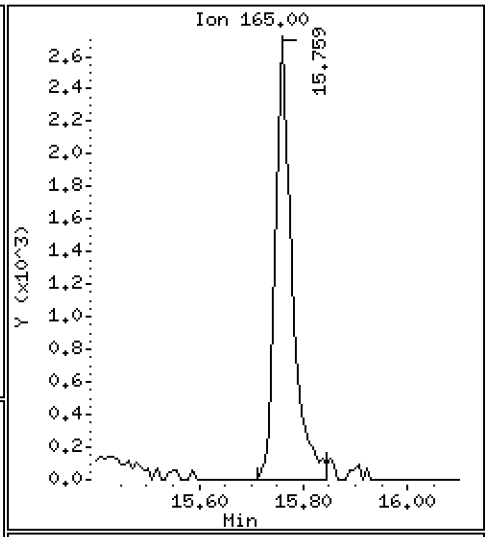
Concentration: 0.3389 ug/mL

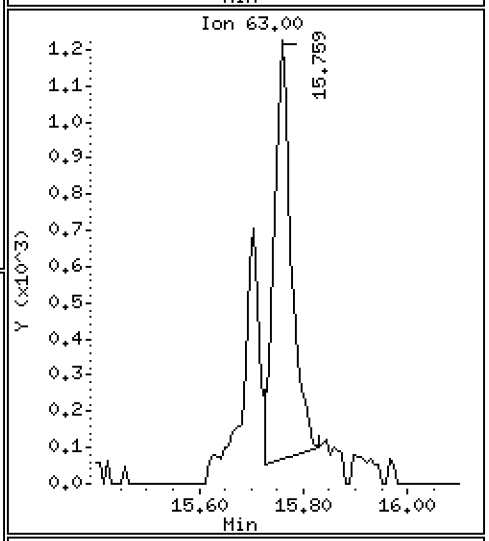


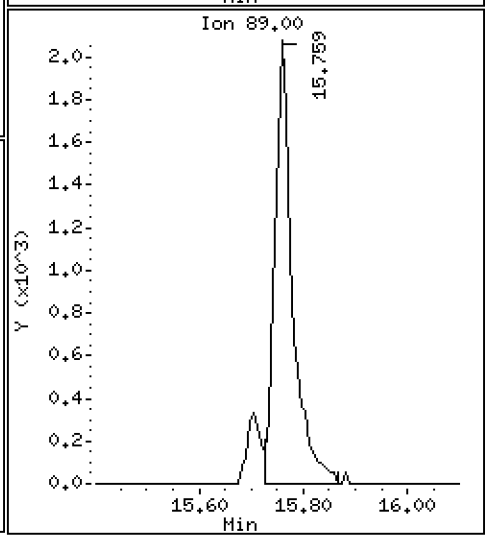












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

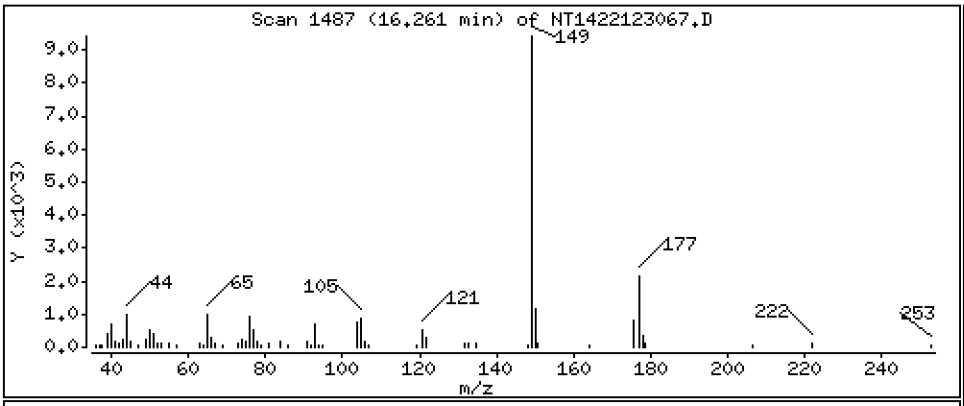
Operator: VTS

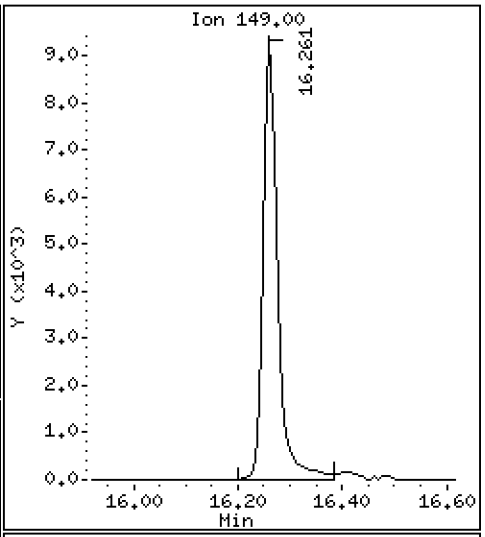
Column phase: ZB-5msi

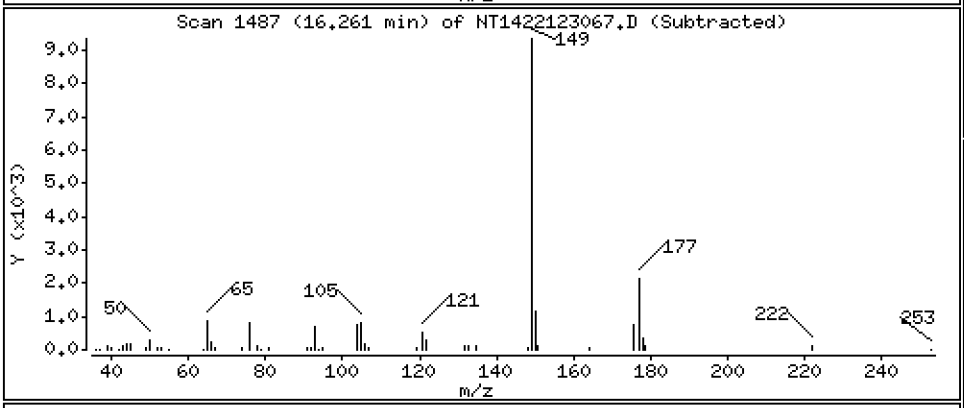
Column diameter: 0.25

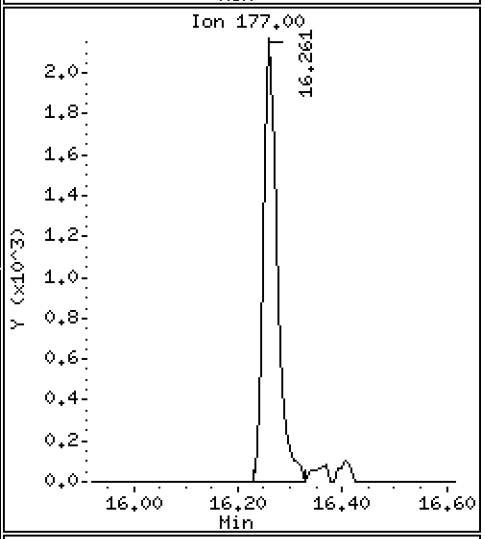
50 Diethylphthalate

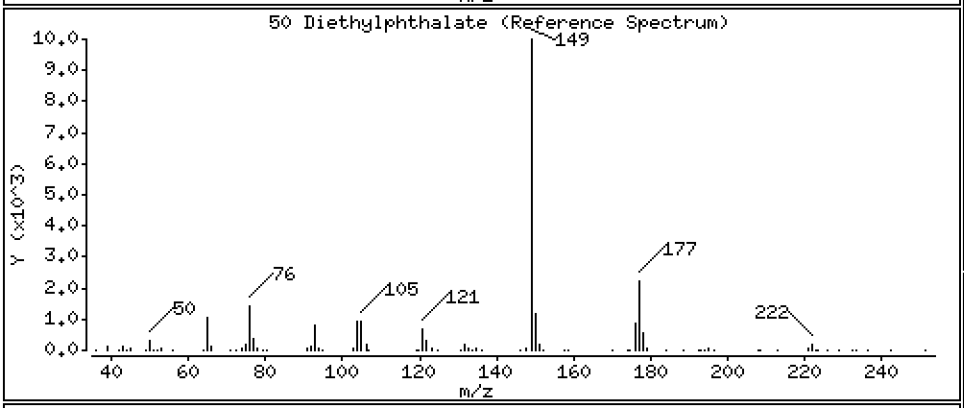
Concentration: 0.2595 ug/mL

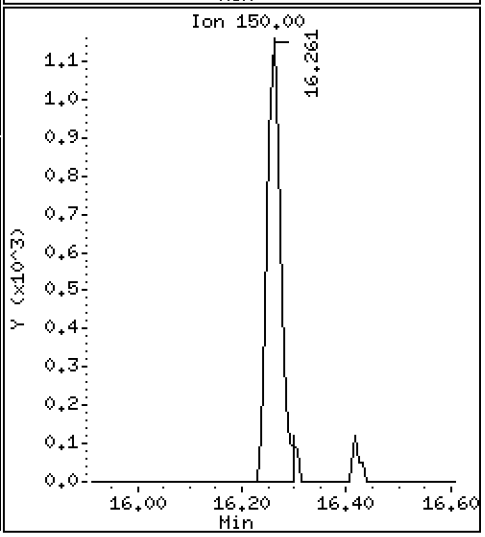


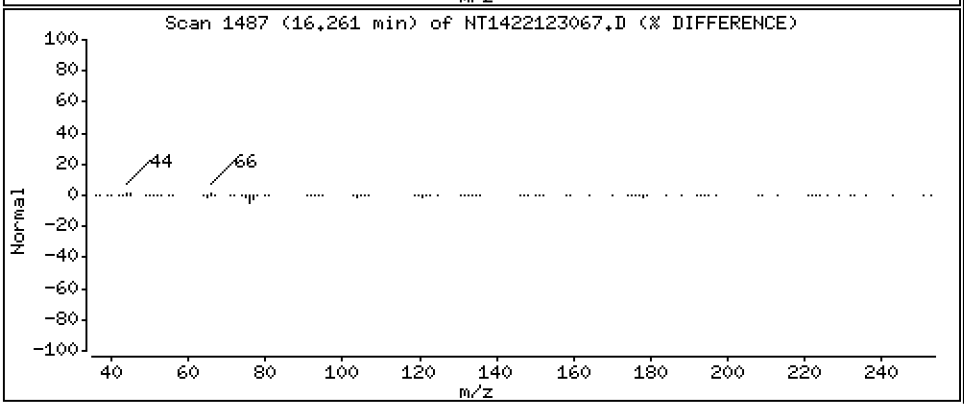












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

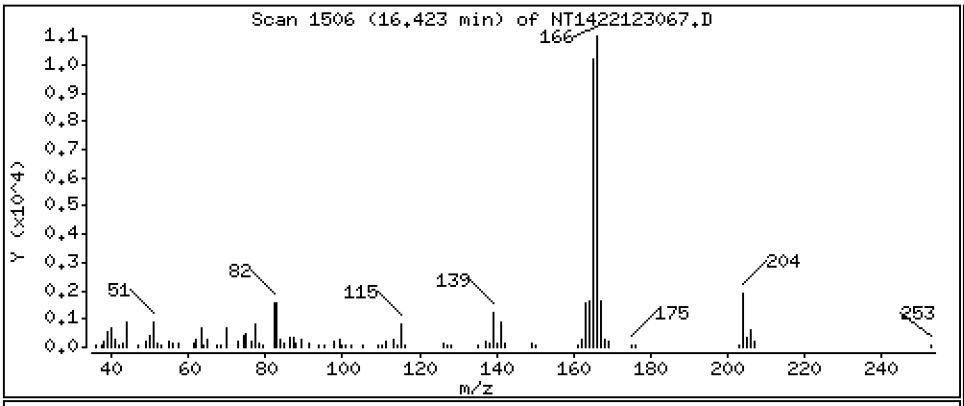
Operator: VTS

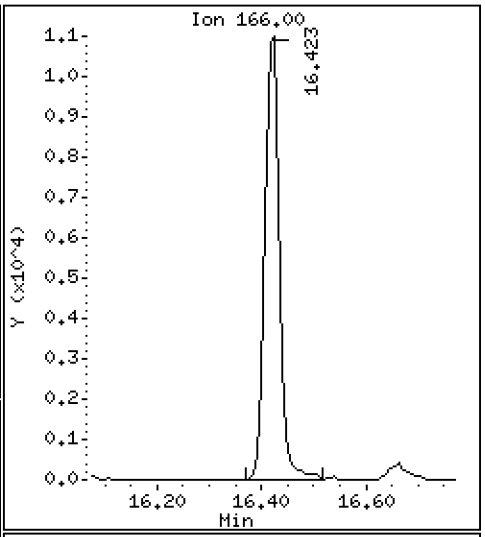
Column phase: ZB-5msi

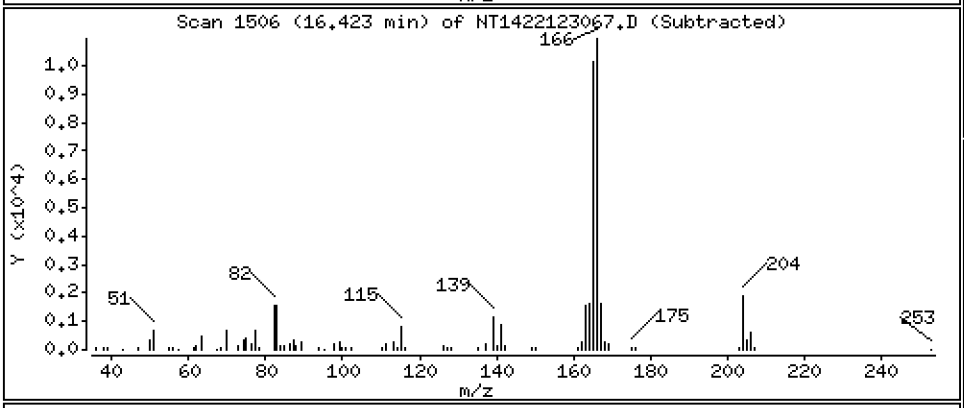
Column diameter: 0.25

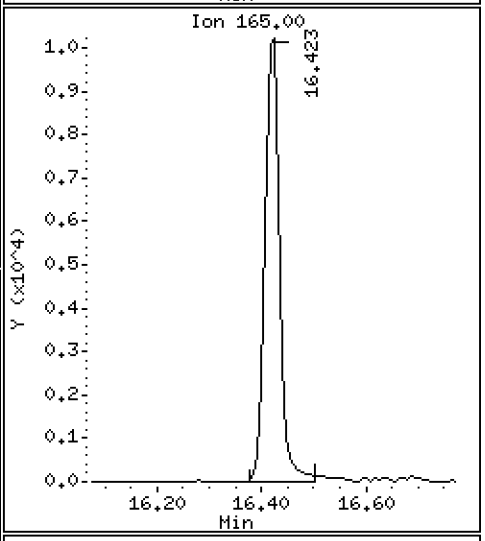
49 Fluorene

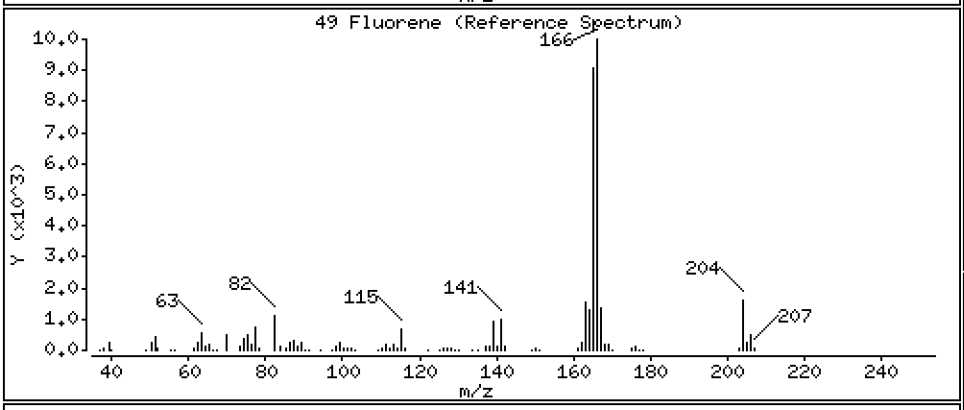
Concentration: 0.2334 ug/mL

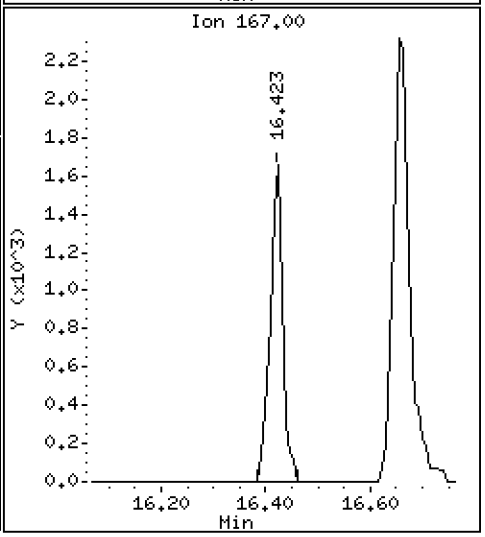


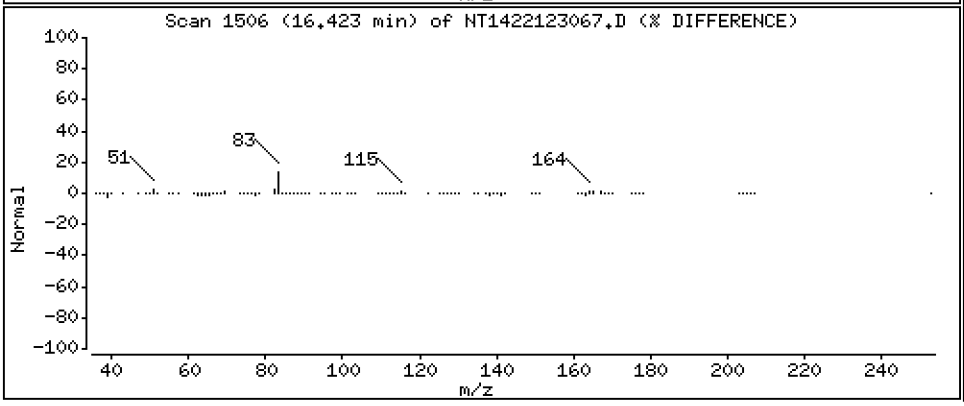












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

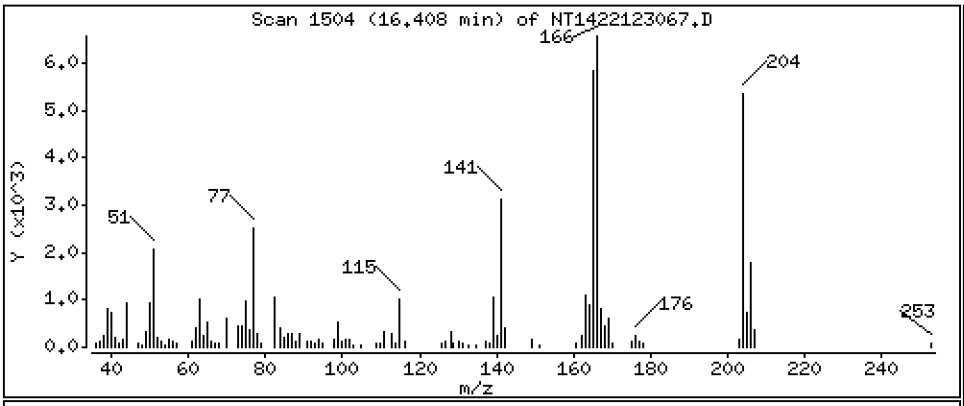
Operator: VTS

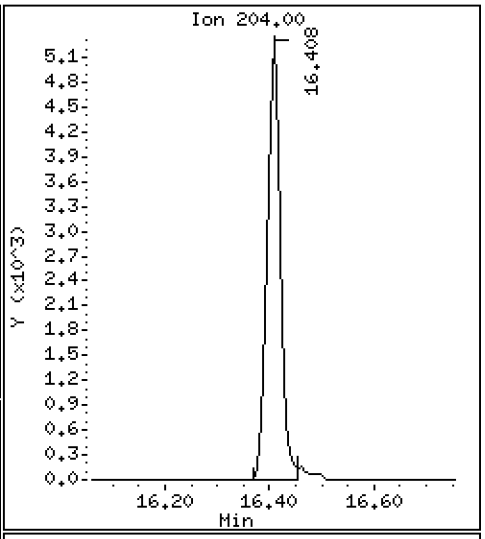
Column phase: ZB-5msi

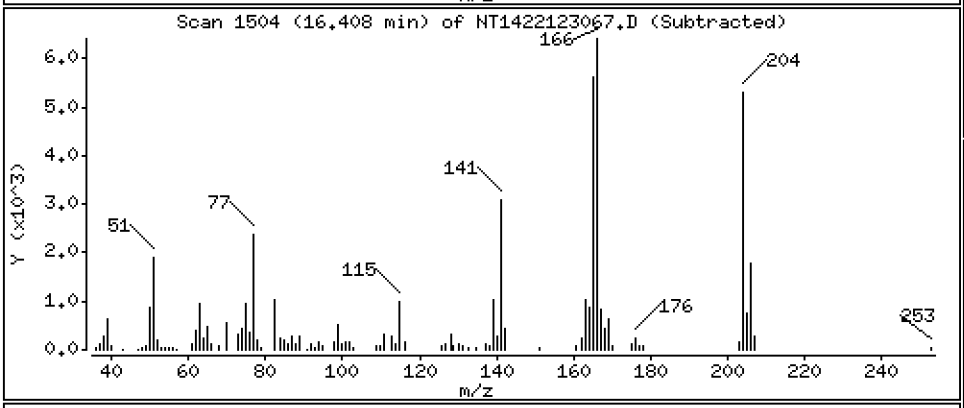
Column diameter: 0.25

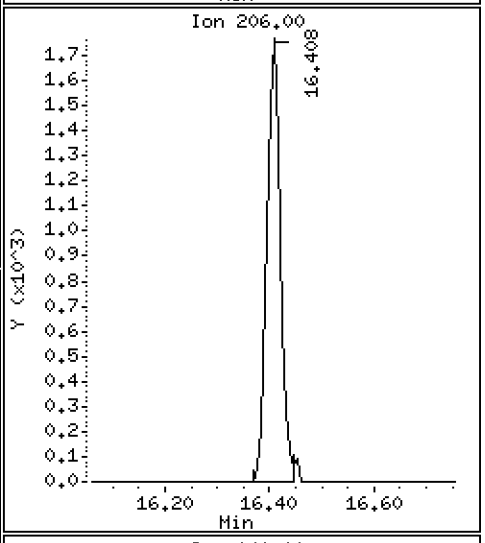
51 4-Chlorophenyl-phenylether

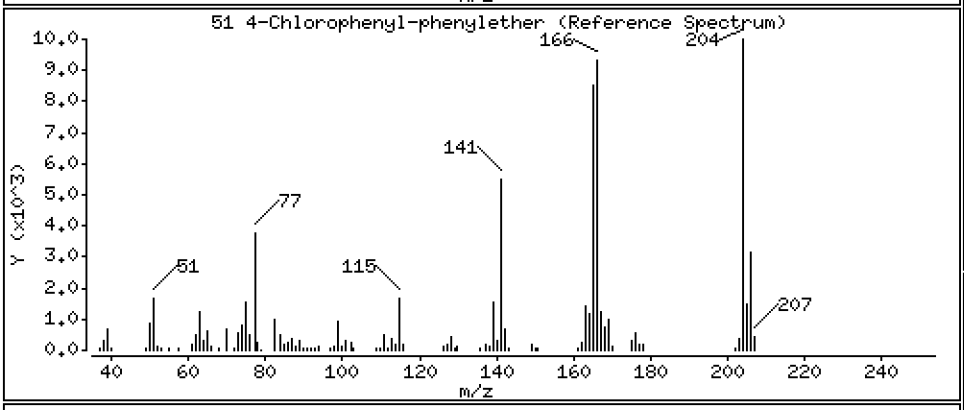
Concentration: 0.2115 ug/mL

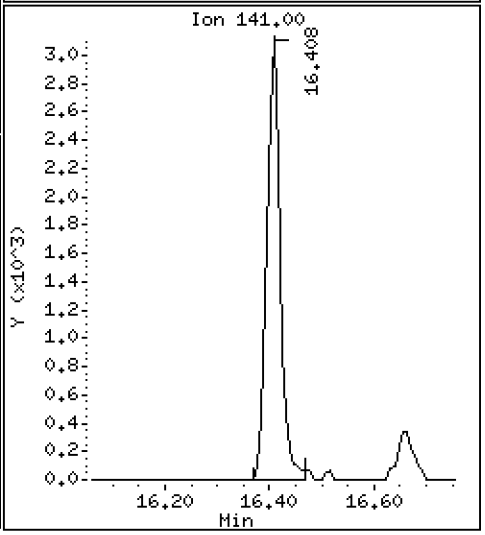


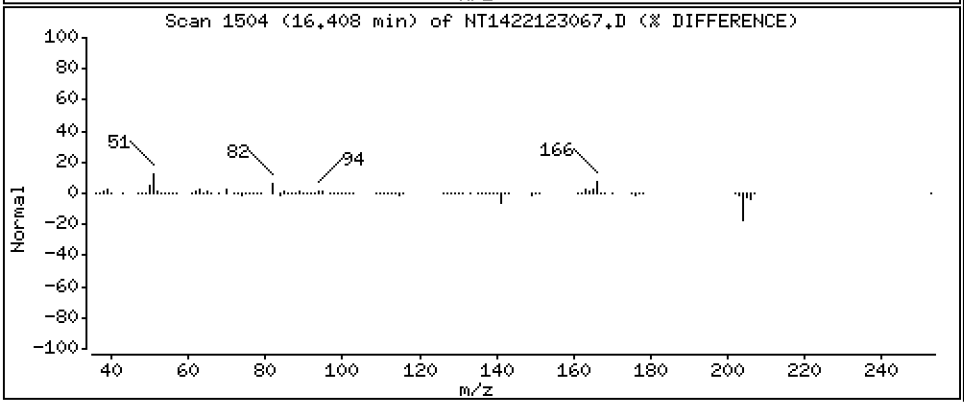












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

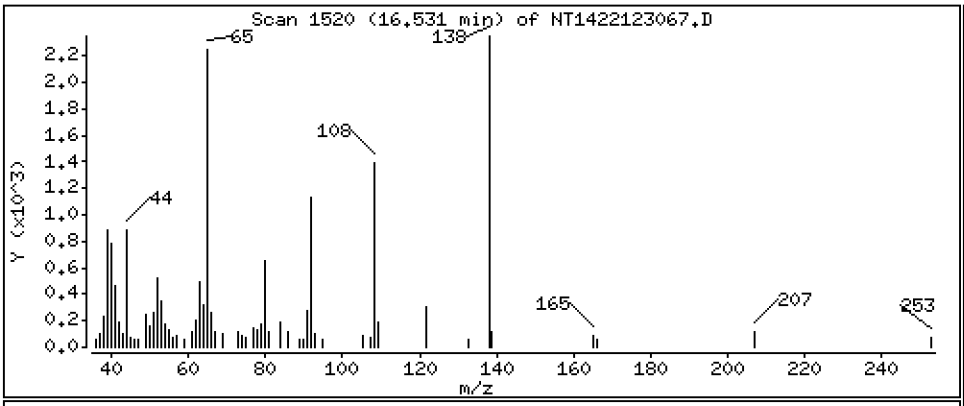
Operator: VTS

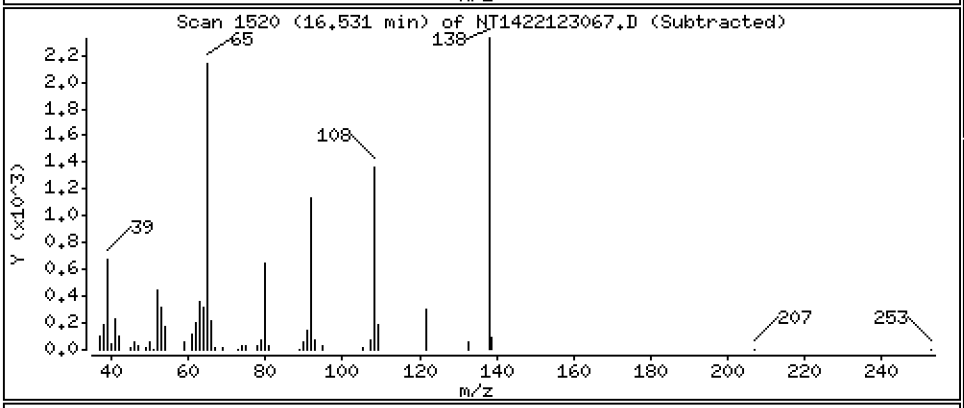
Column phase: ZB-5msi

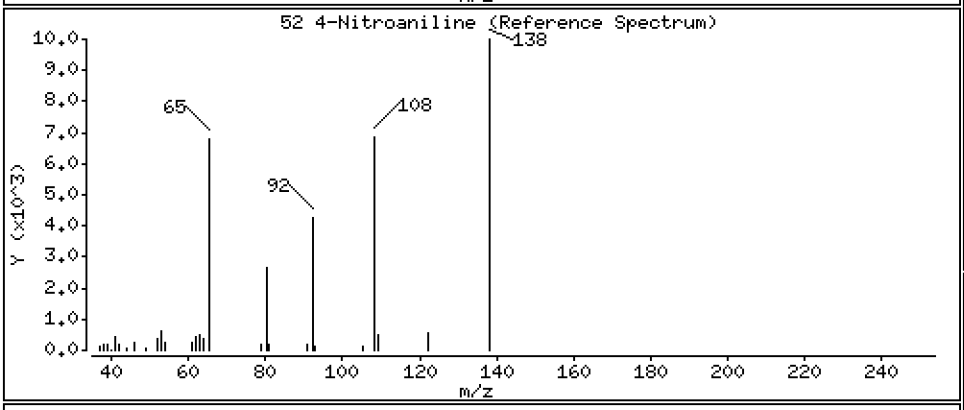
Column diameter: 0.25

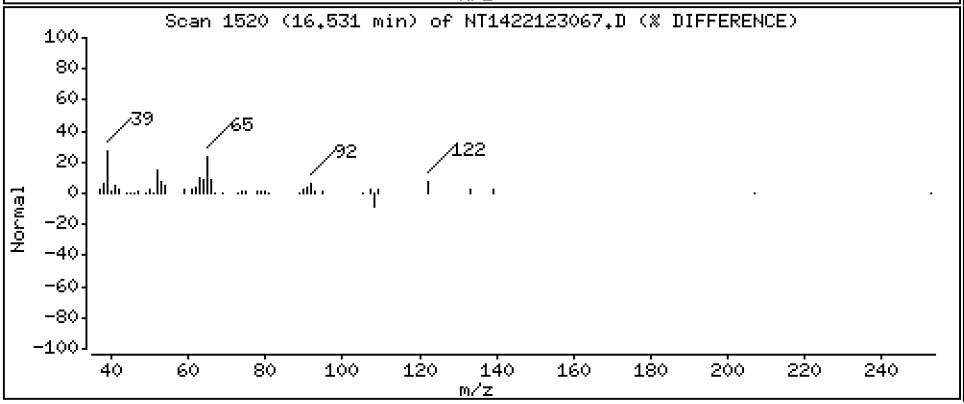
52 4-Nitroaniline

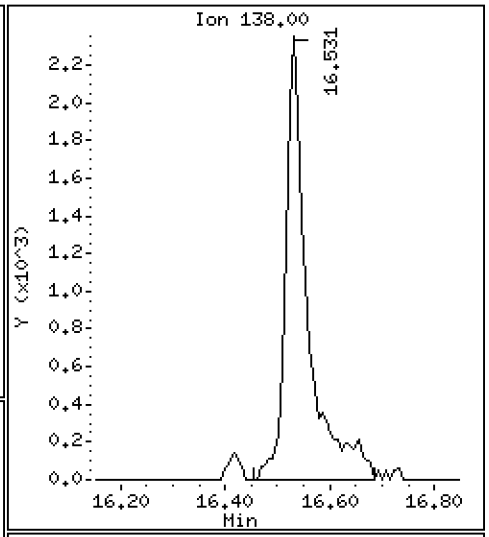
Concentration: 0.3738 ug/mL

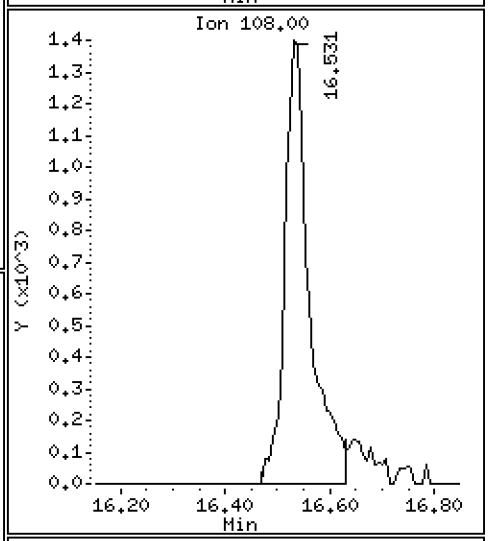


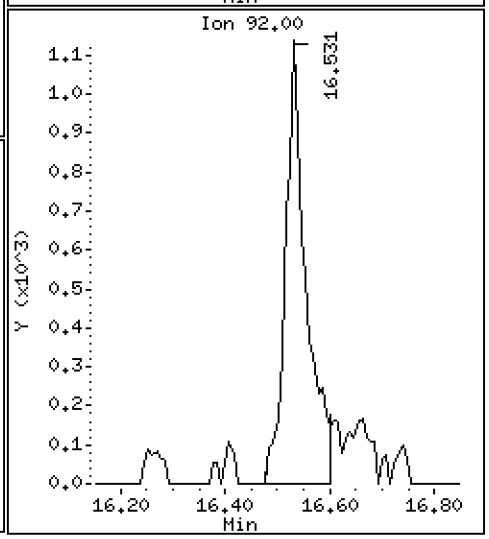












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

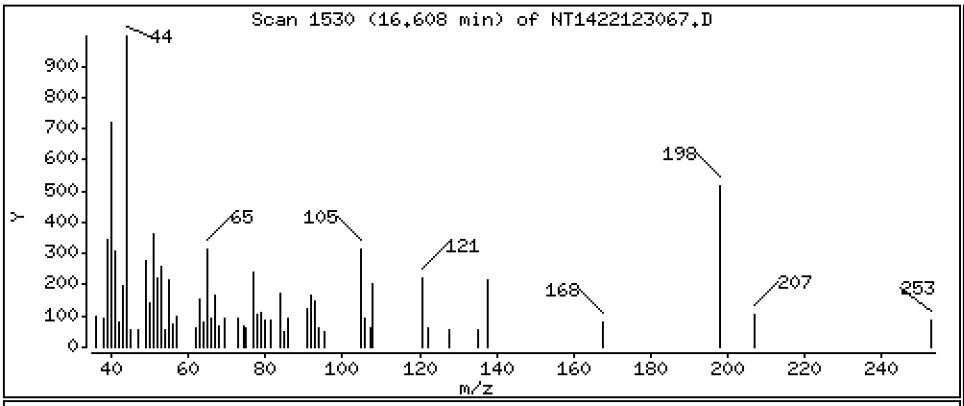
Operator: VTS

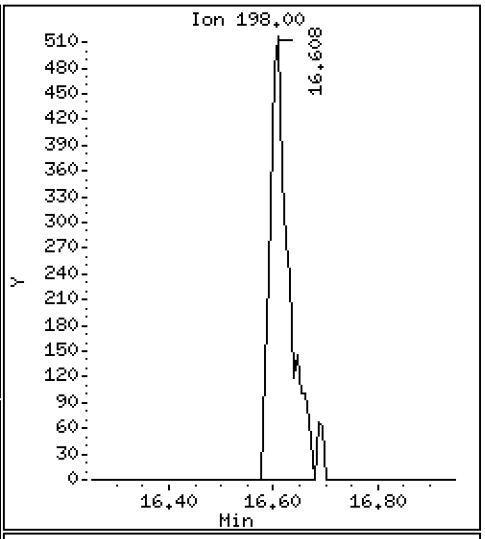
Column phase: ZB-5msi

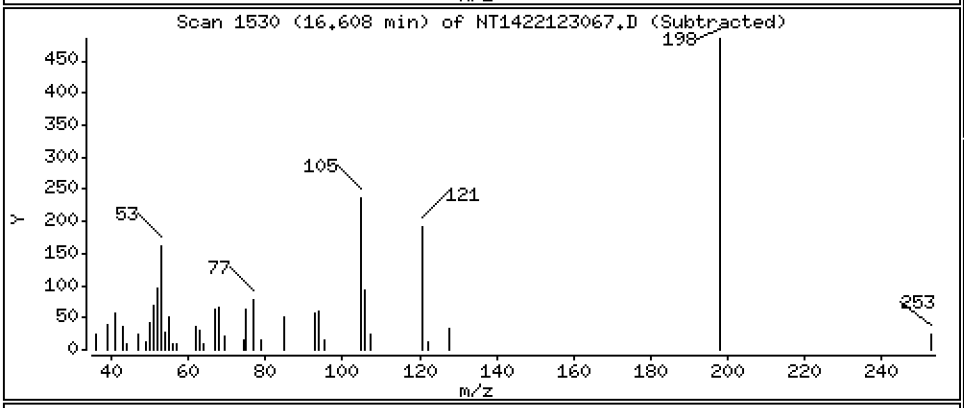
Column diameter: 0.25

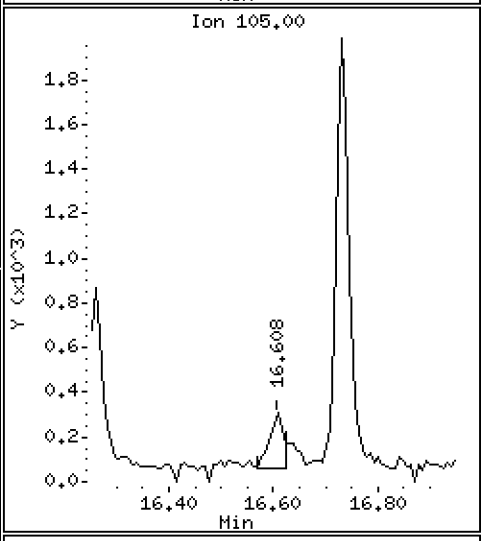
53 4,6-Dinitro-2-methylphenol

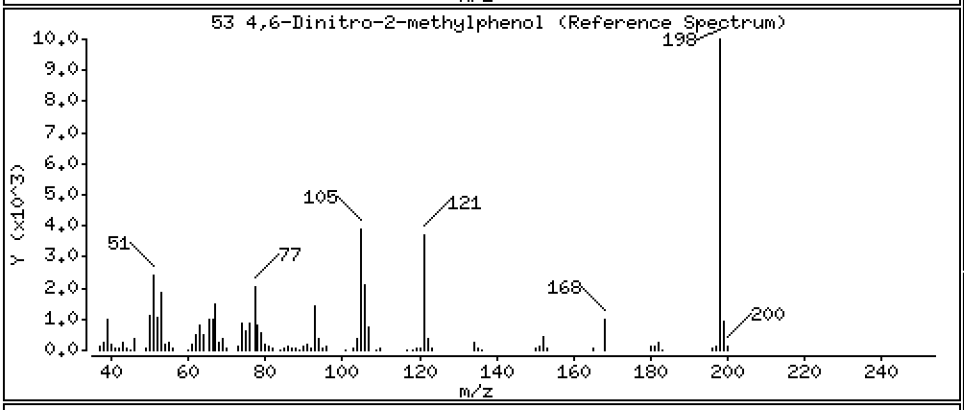
Concentration: 0.09261 ug/mL

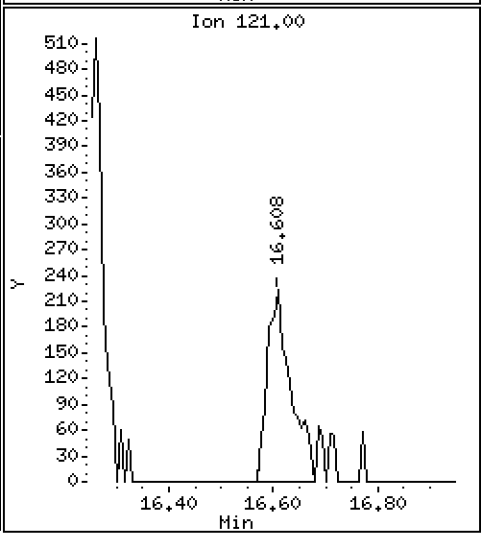


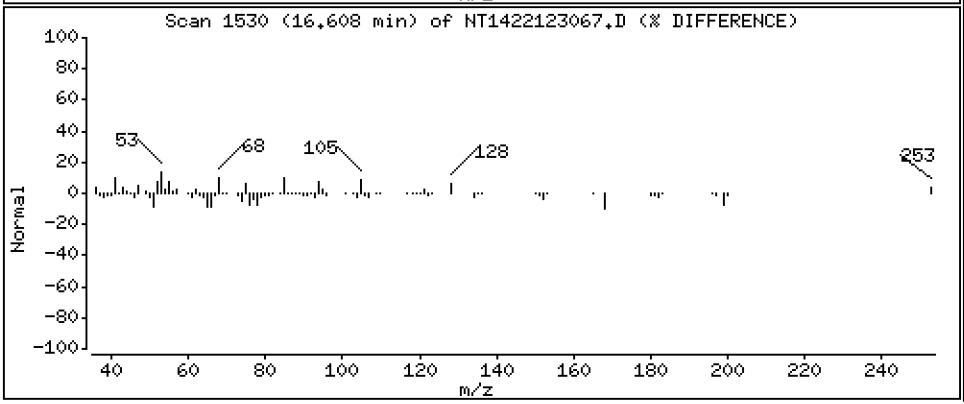












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

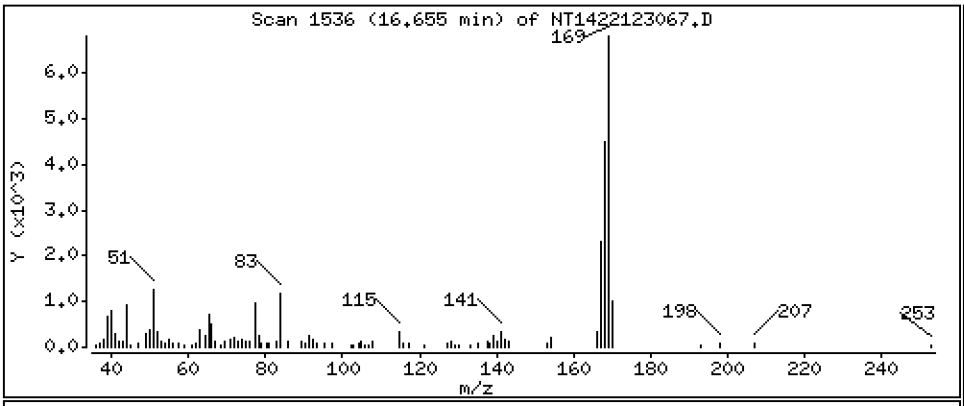
Operator: VTS

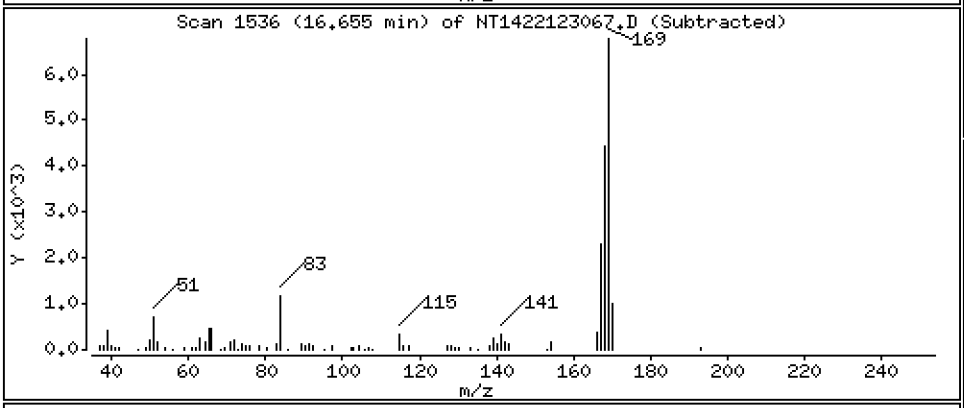
Column phase: ZB-5msi

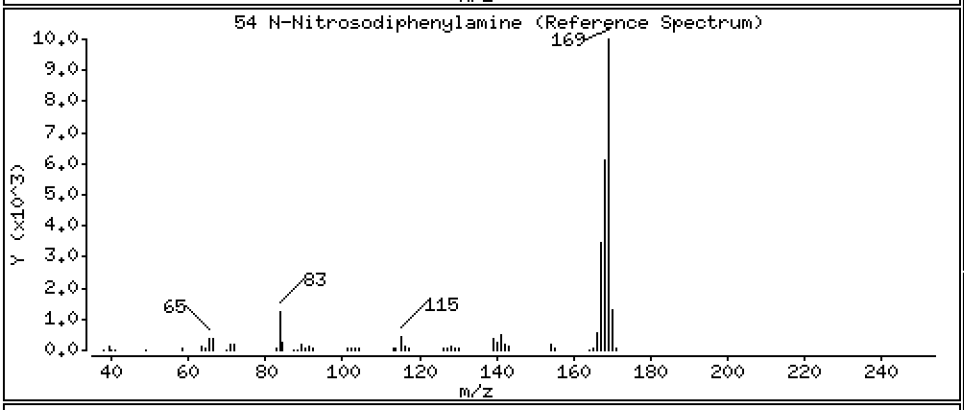
Column diameter: 0.25

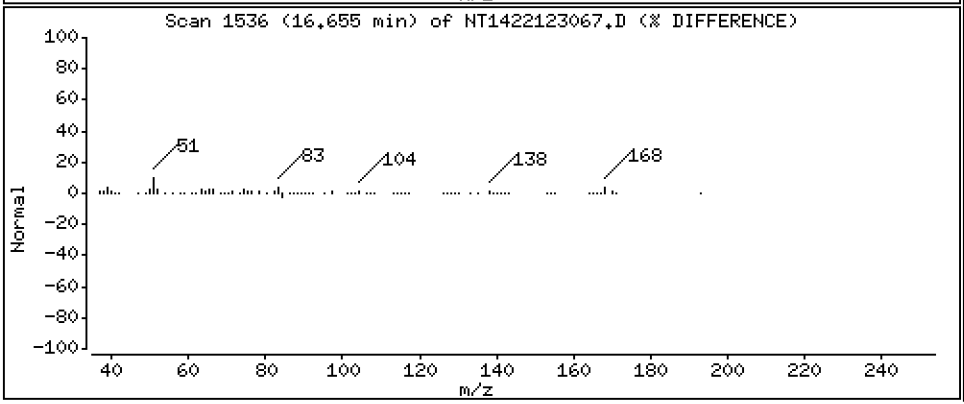
54 N-Nitrosodiphenylamine

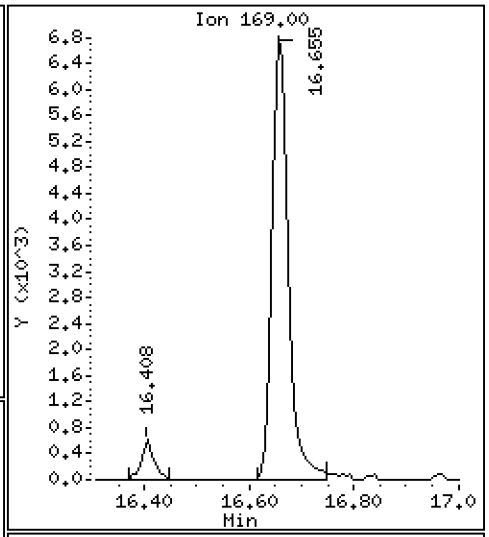
Concentration: 0.2509 ug/mL

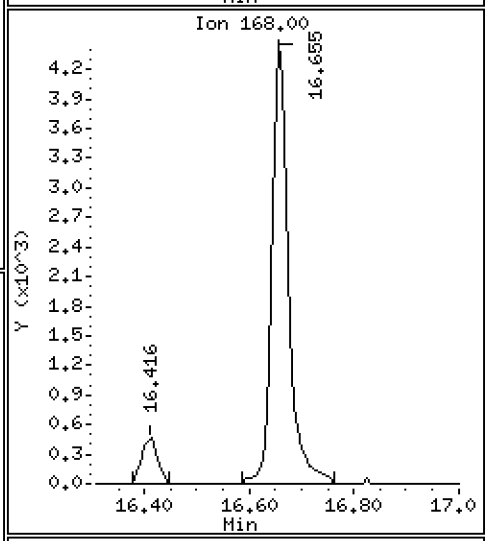


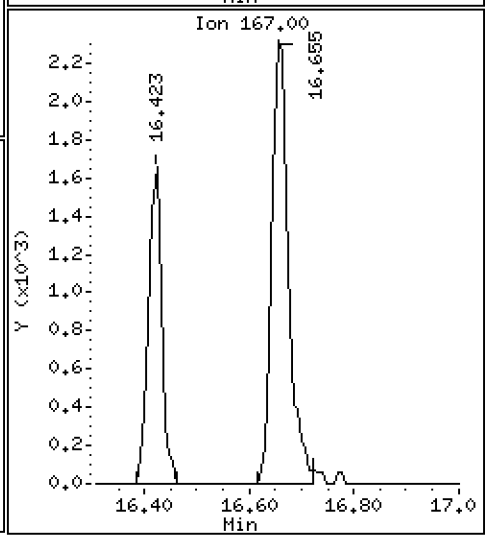












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

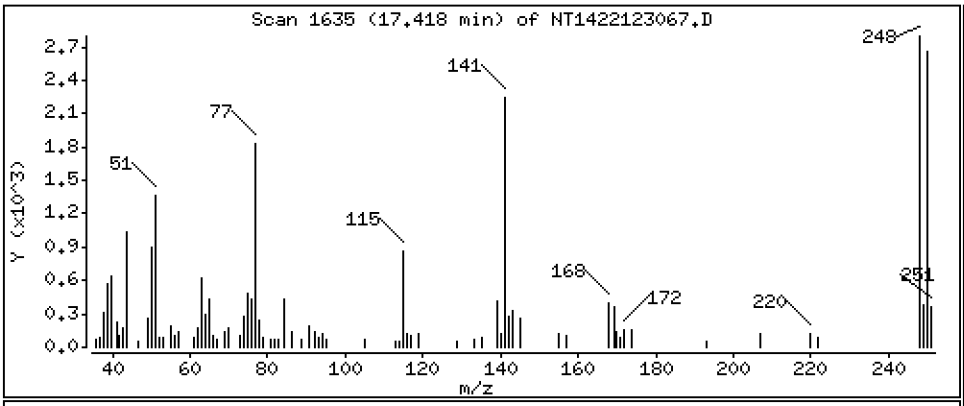
Operator: VTS

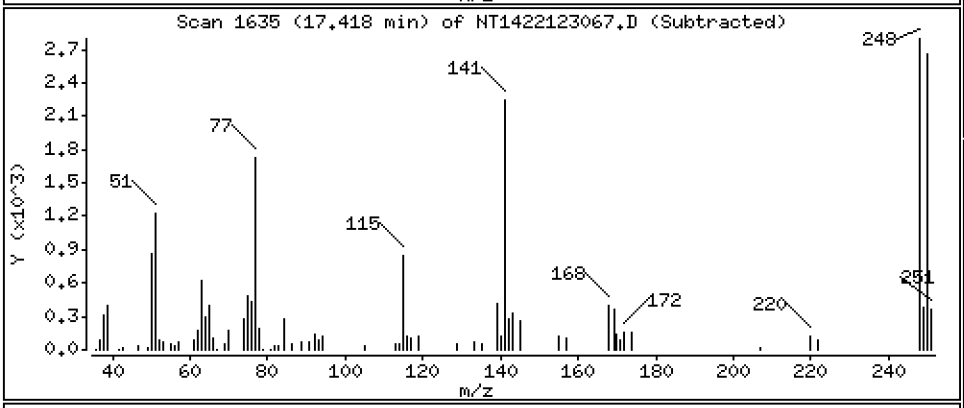
Column phase: ZB-5msi

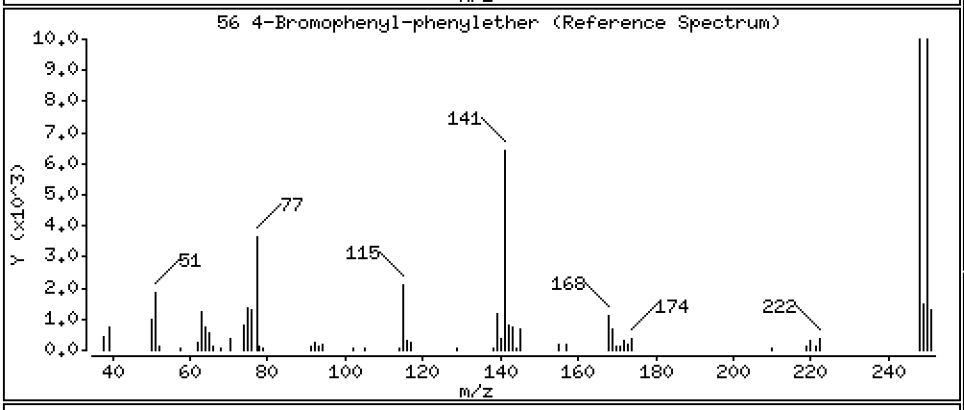
Column diameter: 0.25

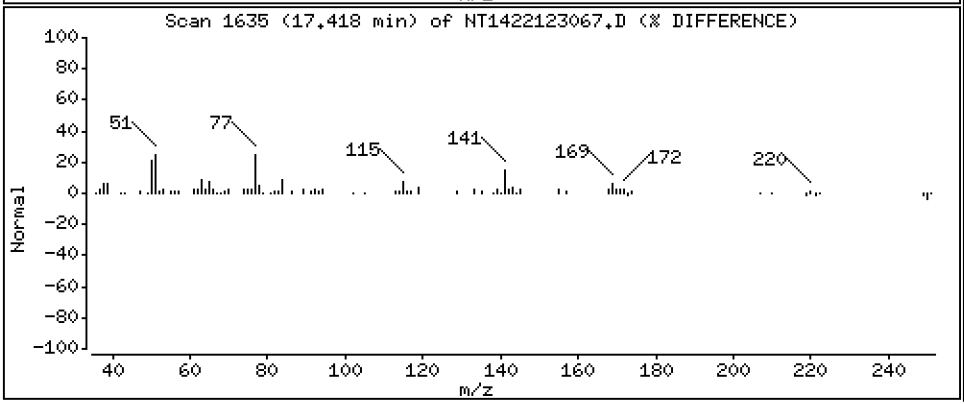
56 4-Bromophenyl-phenylether

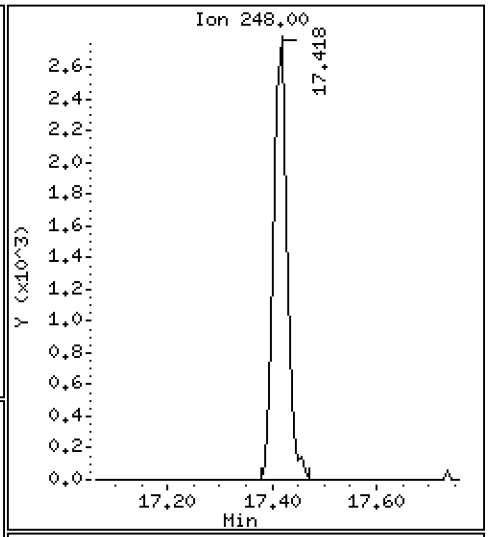
Concentration: 0.2232 ug/mL

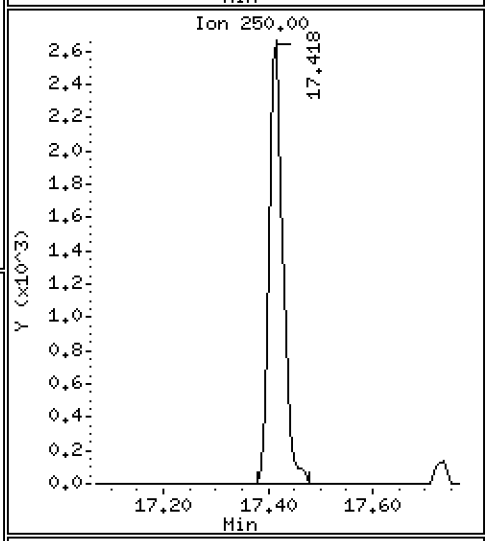


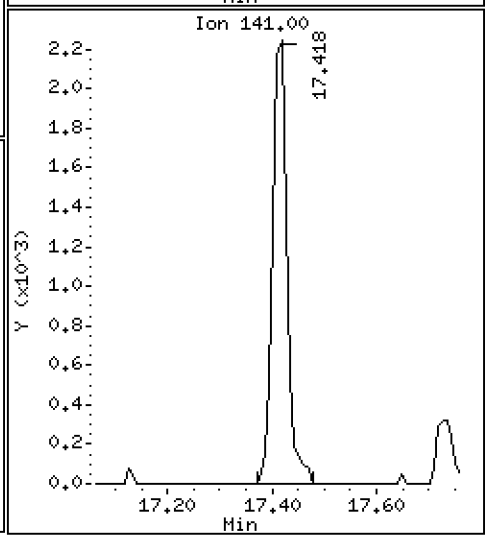












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

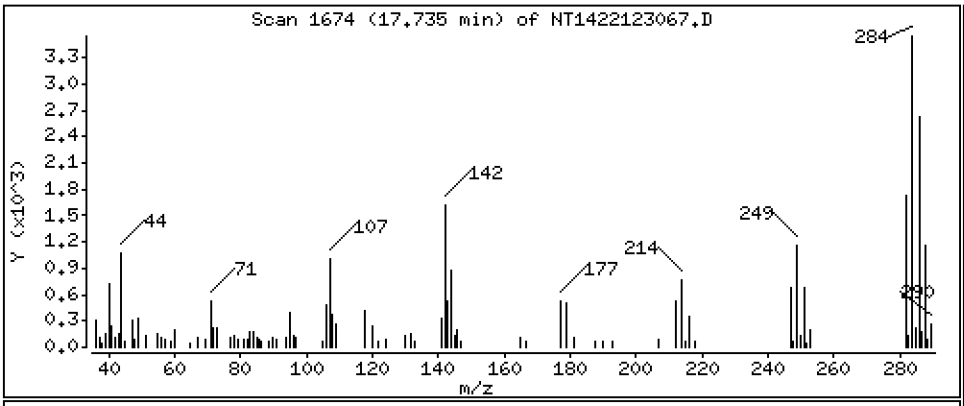
Operator: VTS

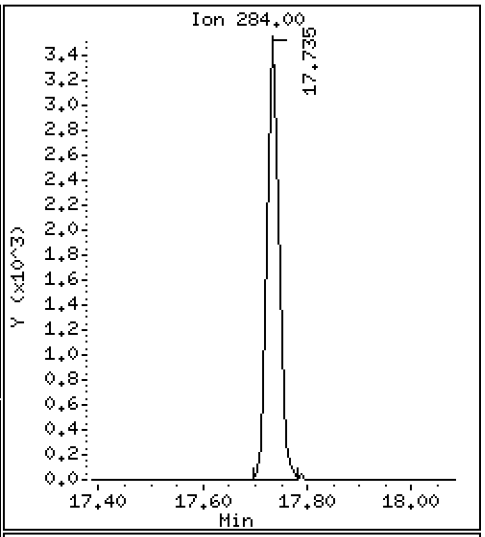
Column phase: ZB-5msi

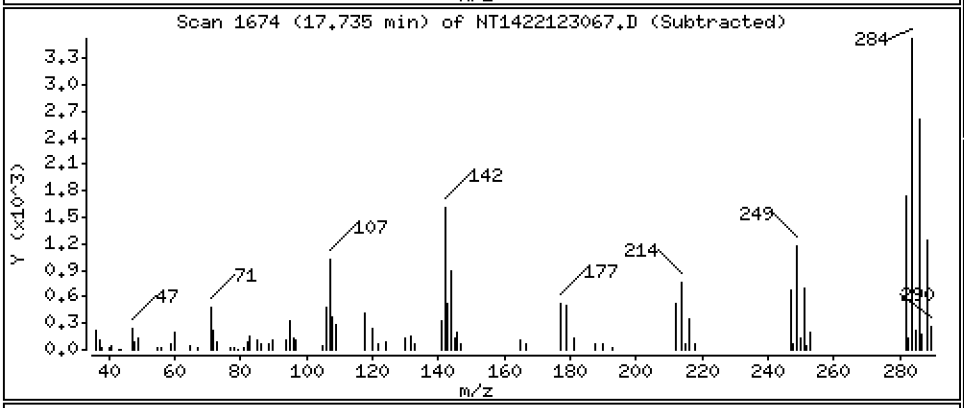
Column diameter: 0.25

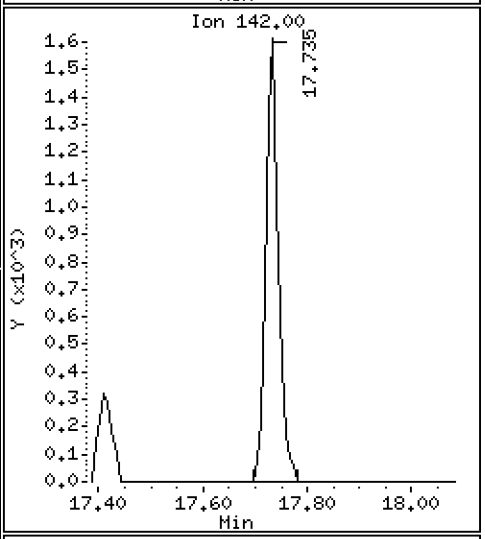
57 Hexachlorobenzene

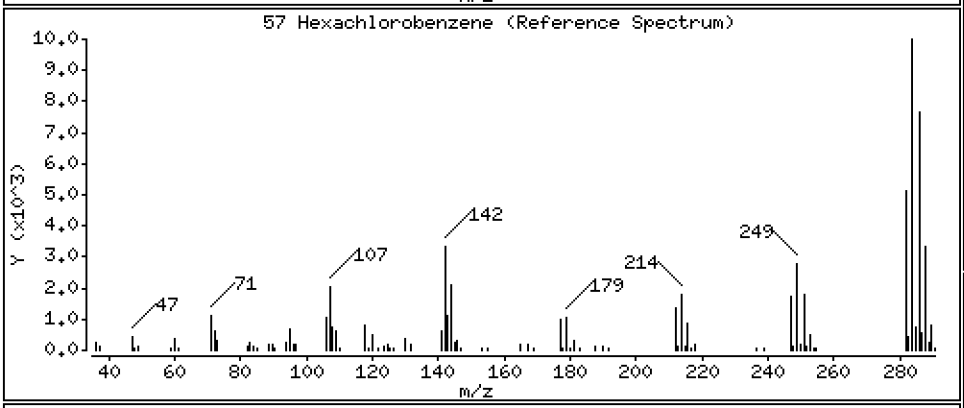
Concentration: 0.2368 ug/mL

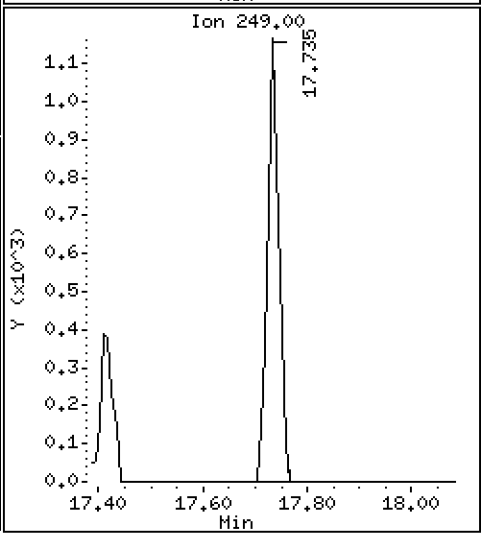


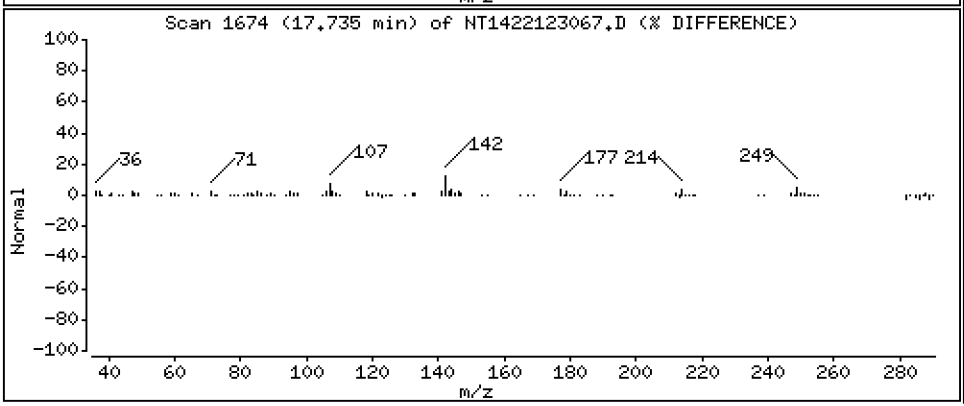












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

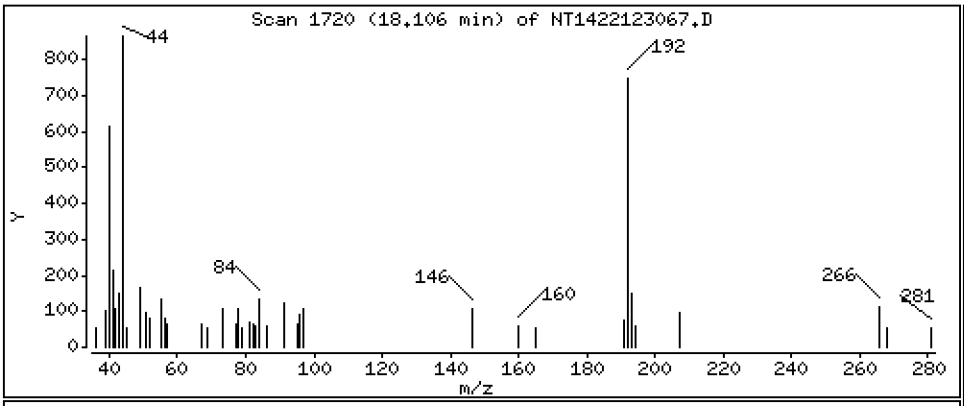
Operator: VTS

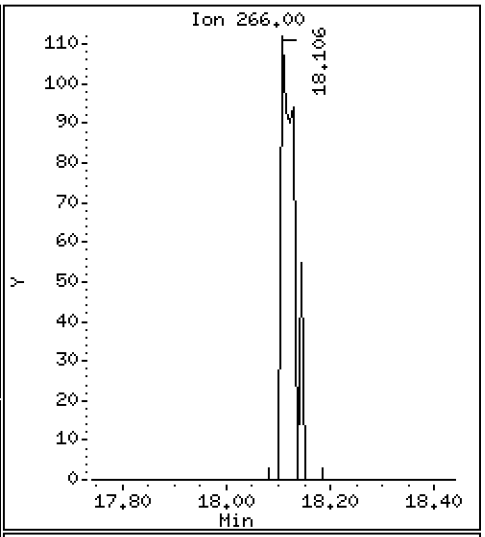
Column phase: ZB-5msi

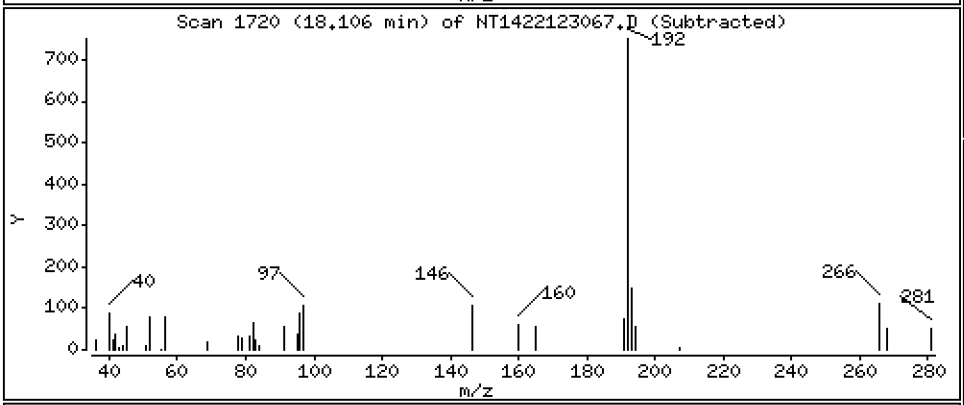
Column diameter: 0.25

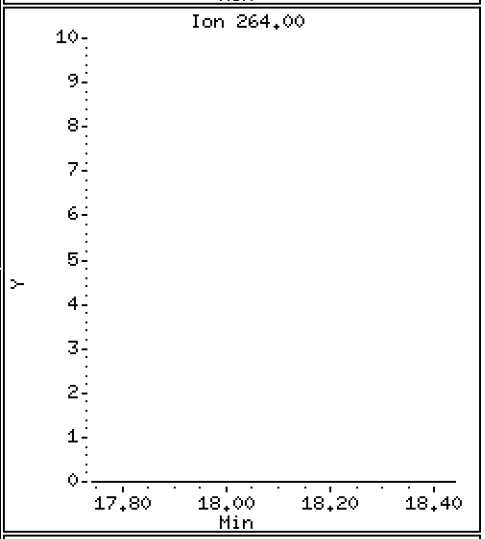
58 Pentachlorophenol

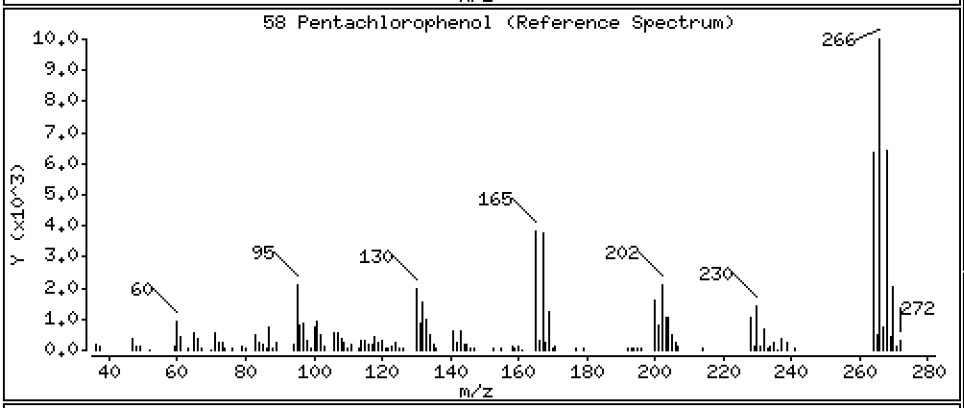
Concentration: 0.02024 ug/mL

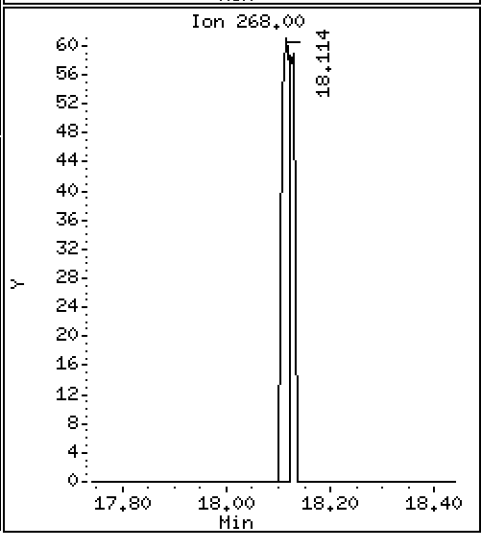


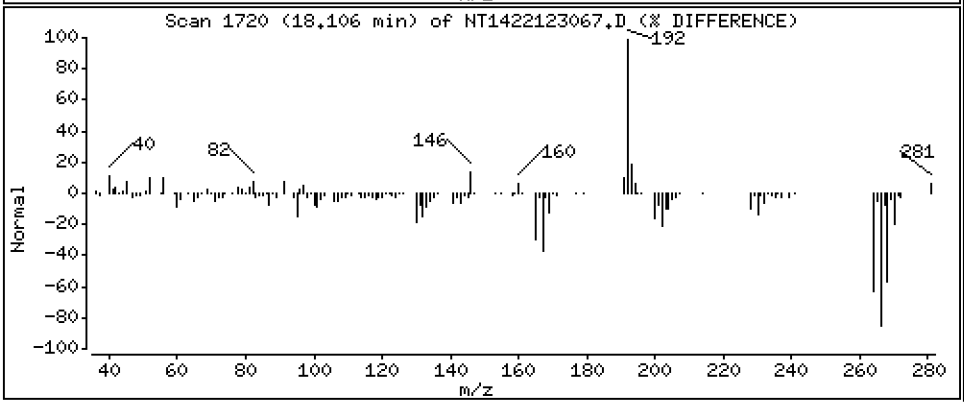












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

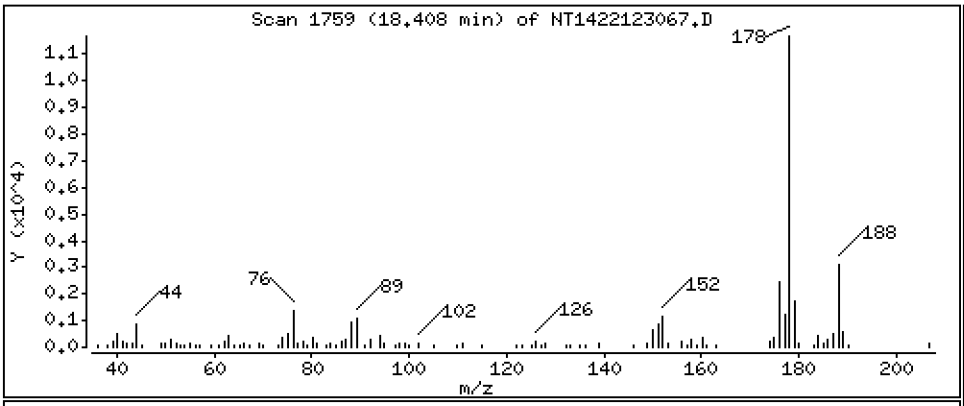
Operator: VTS

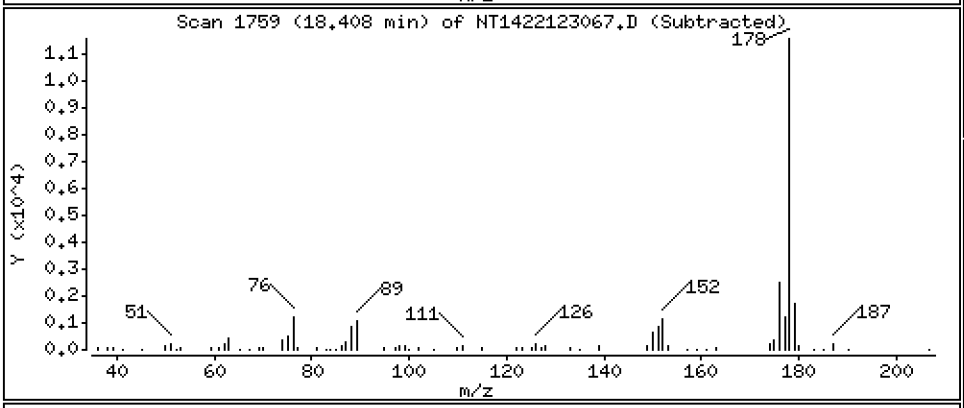
Column phase: ZB-5msi

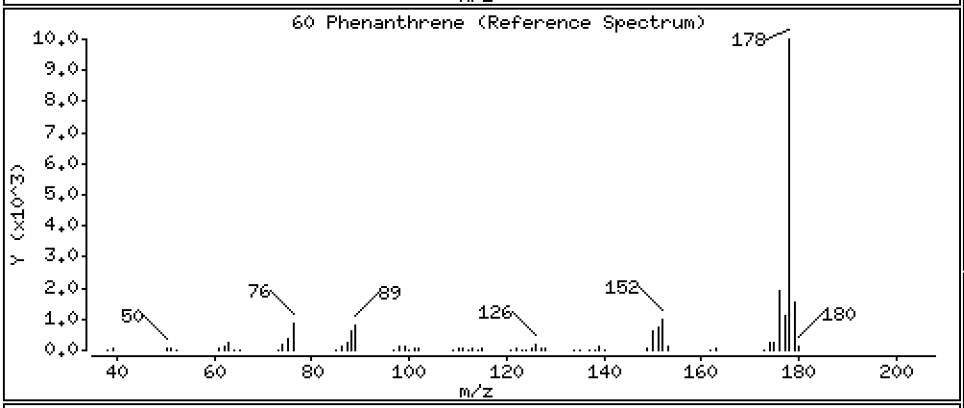
Column diameter: 0.25

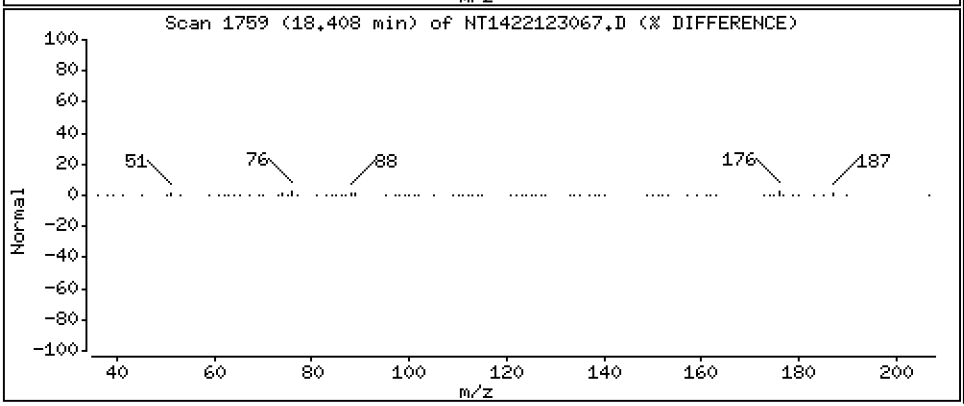
60 Phenanthrene

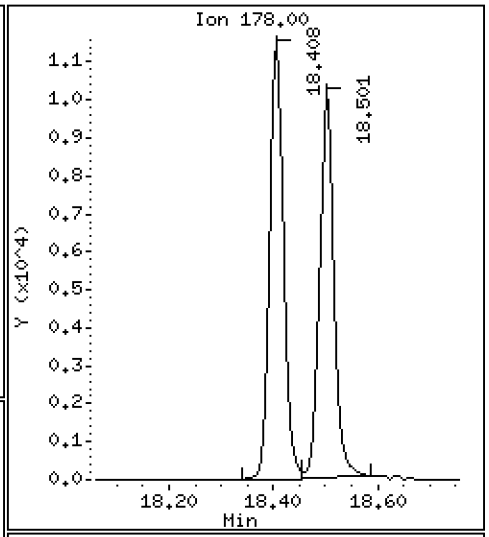
Concentration: 0.2396 ug/mL

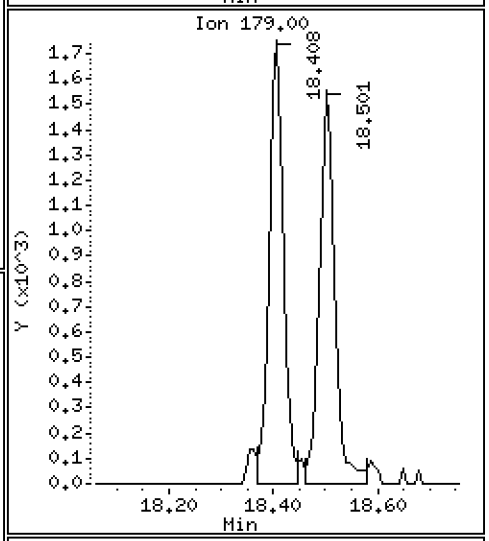


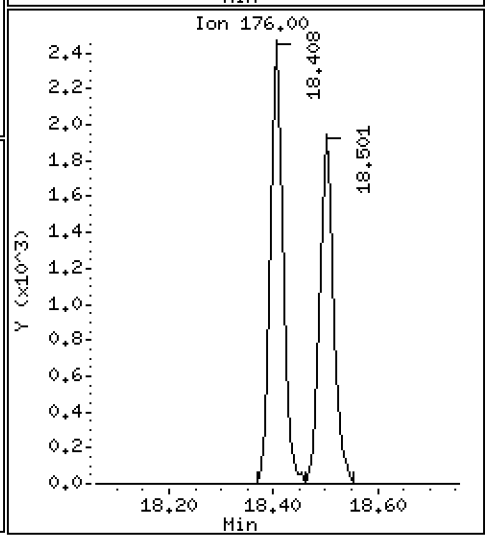












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

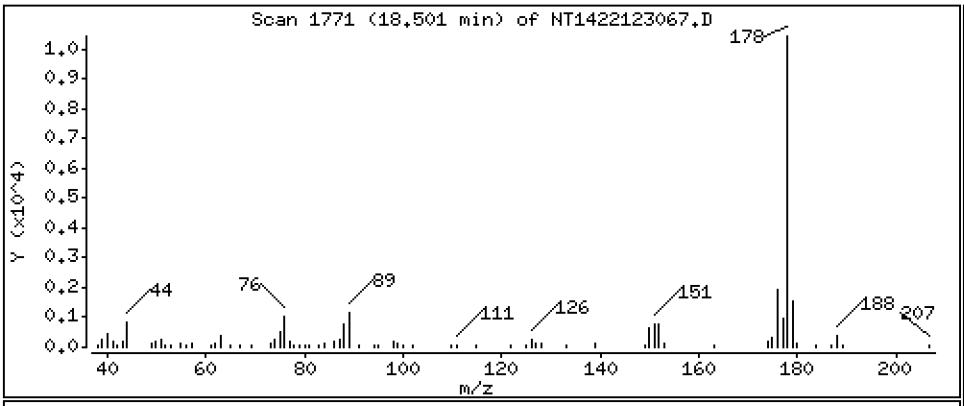
Operator: VTS

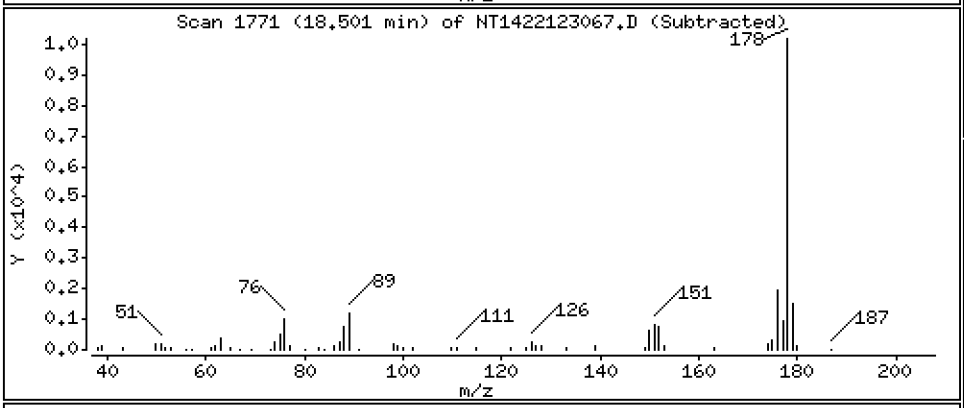
Column phase: ZB-5msi

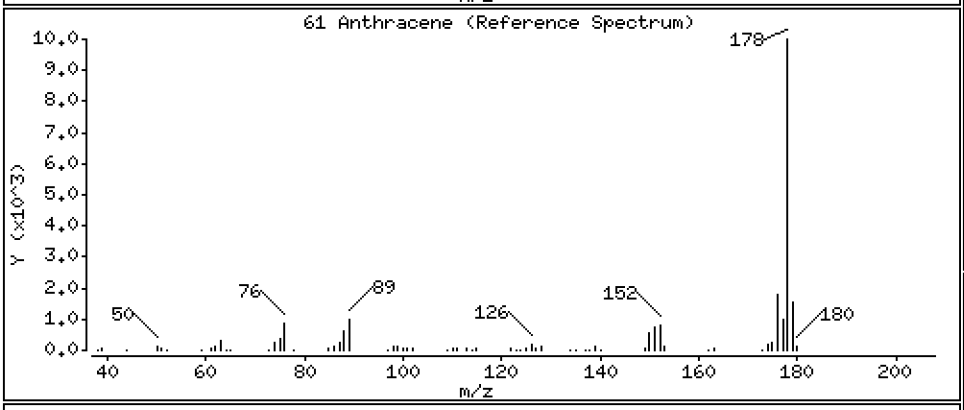
Column diameter: 0.25

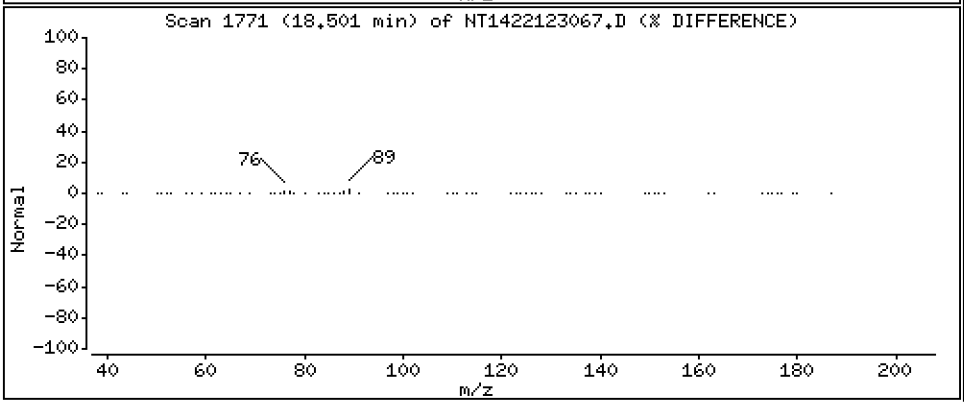
61 Anthracene

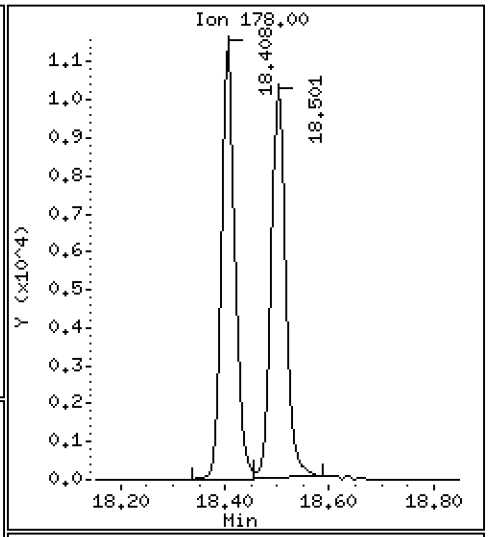
Concentration: 0.2322 ug/mL

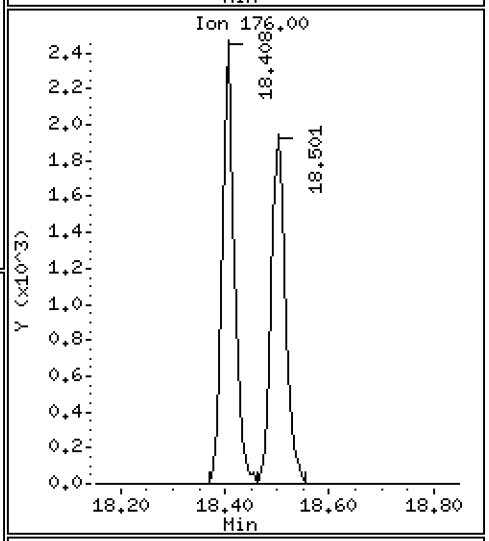


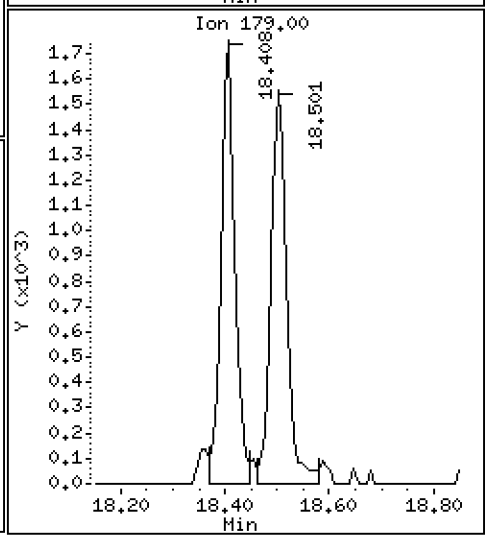












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

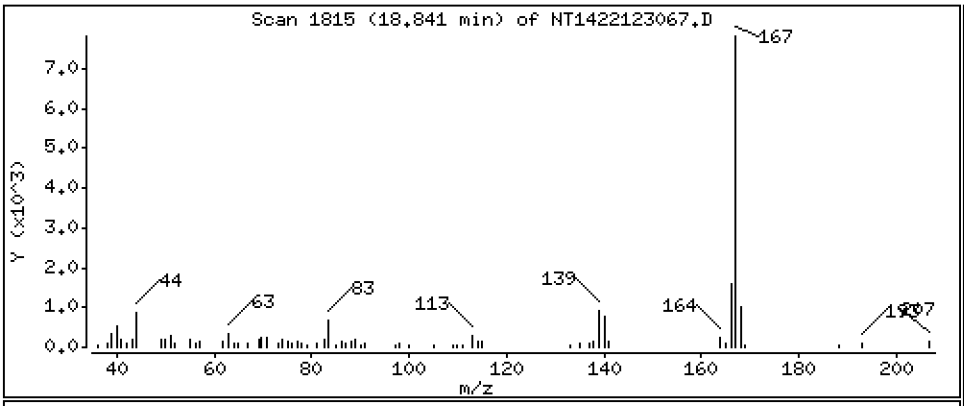
Operator: VTS

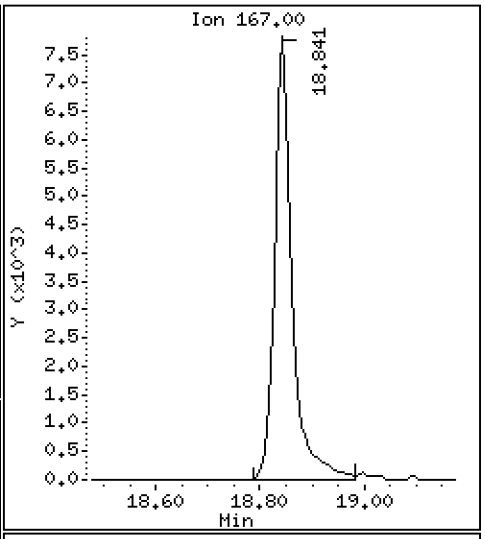
Column phase: ZB-5msi

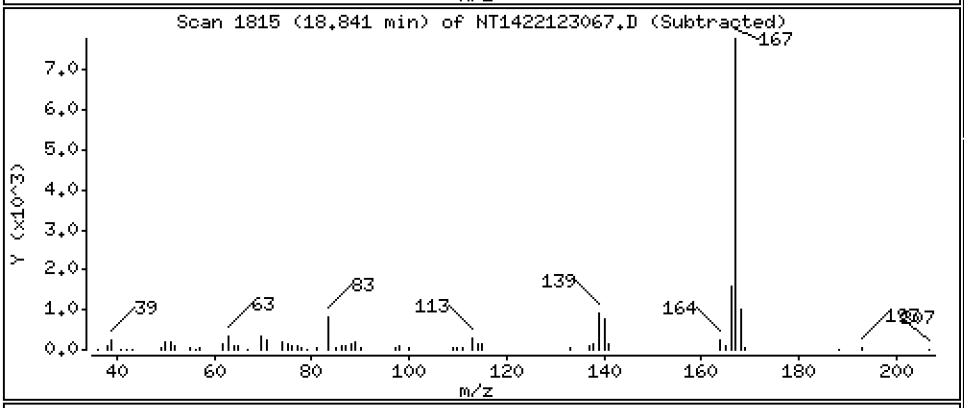
Column diameter: 0.25

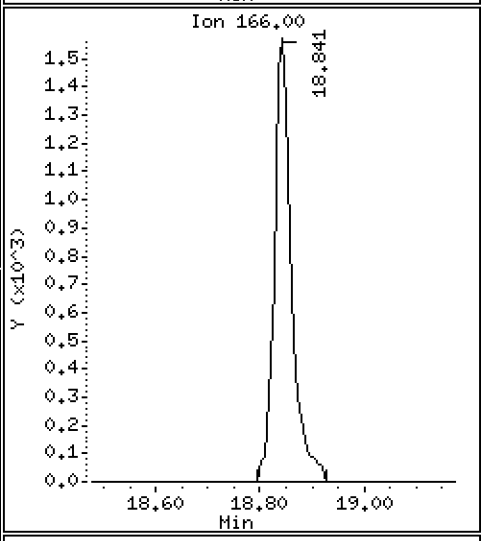
62 Carbazole

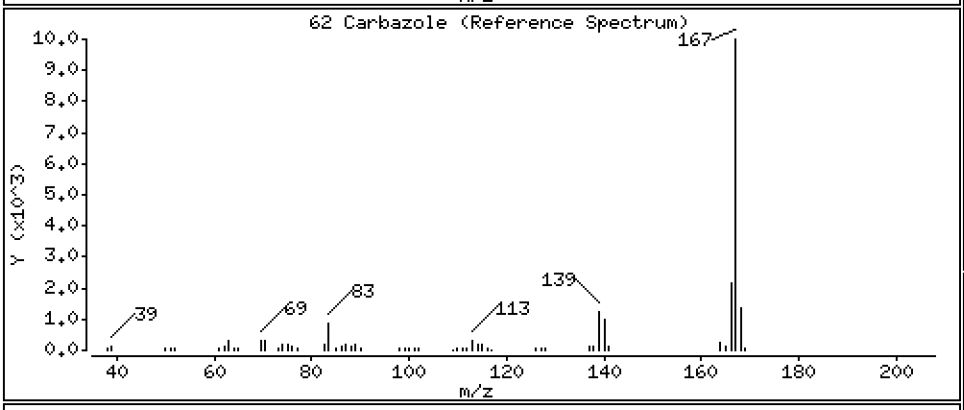
Concentration: 0.2308 ug/mL

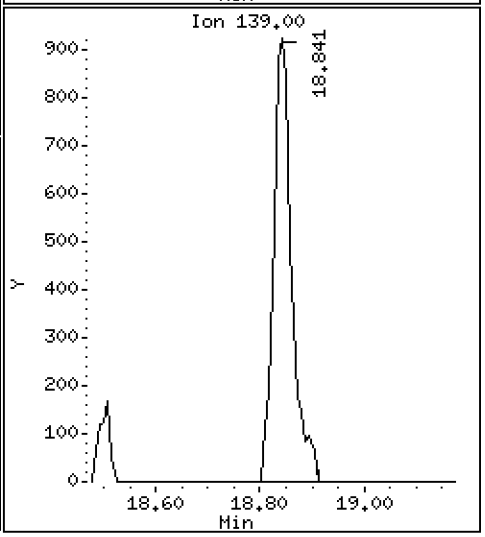


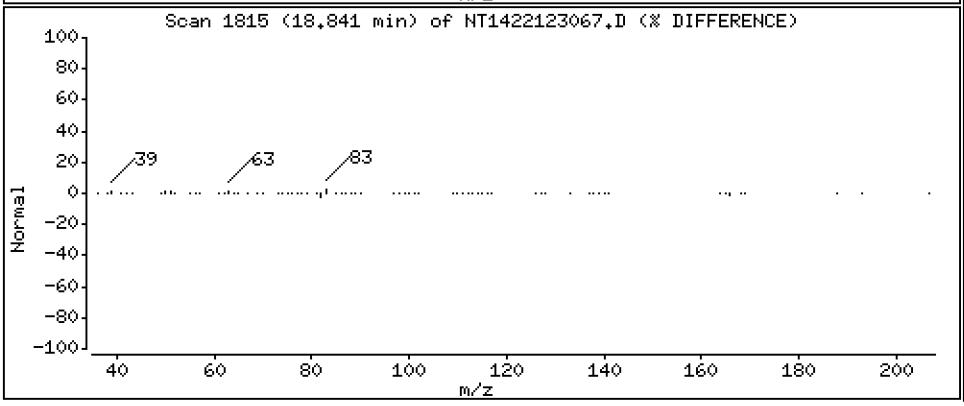












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

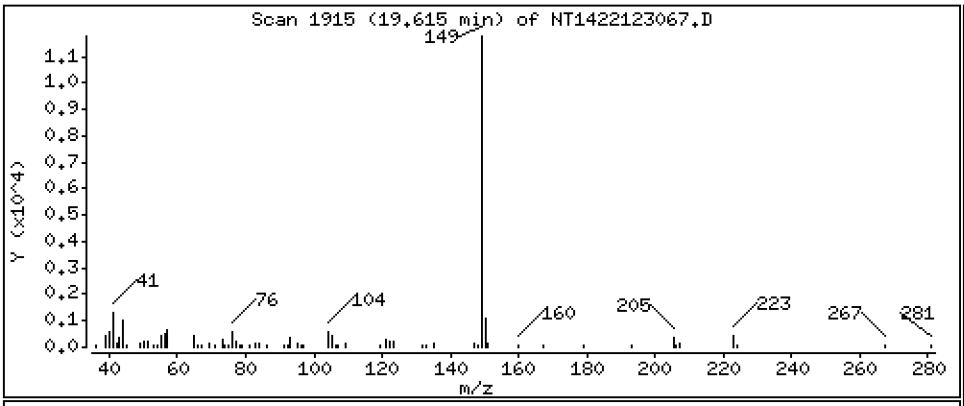
Operator: VTS

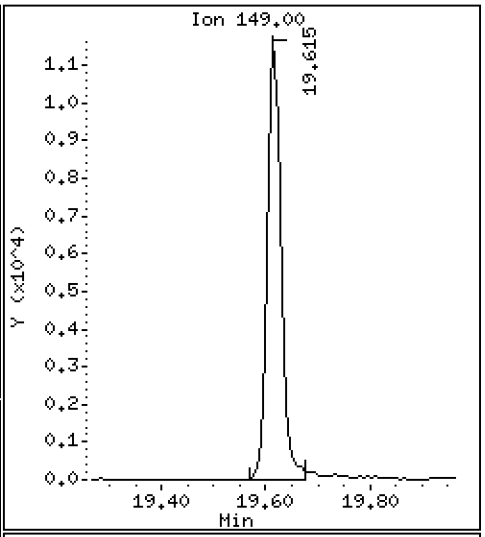
Column phase: ZB-5msi

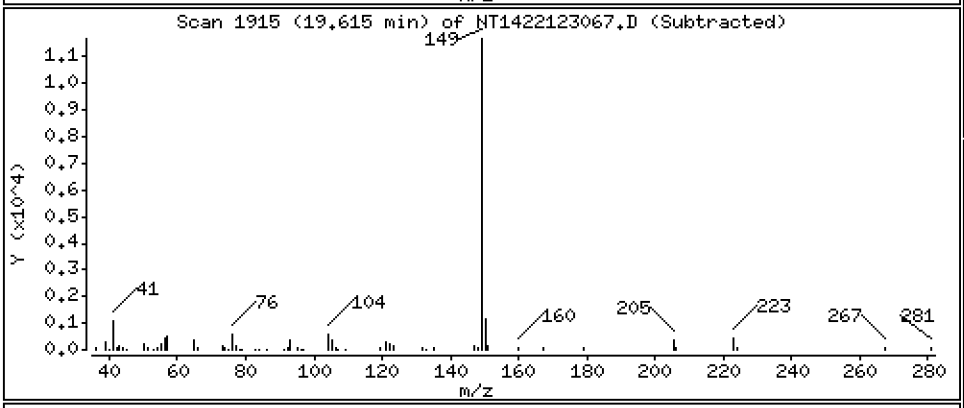
Column diameter: 0.25

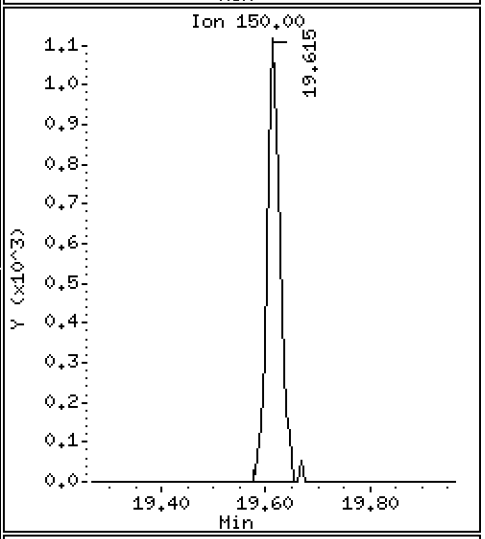
63 Di-n-butylphthalate

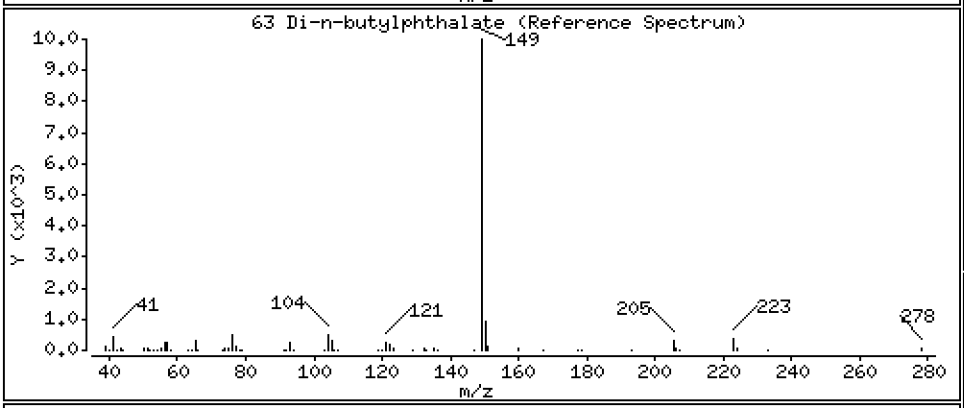
Concentration: 0.2273 ug/mL

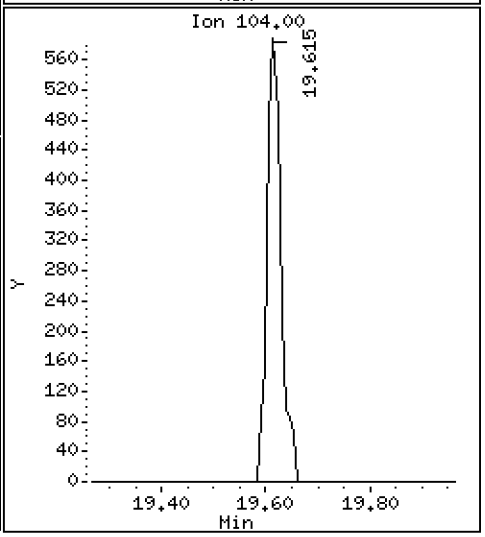


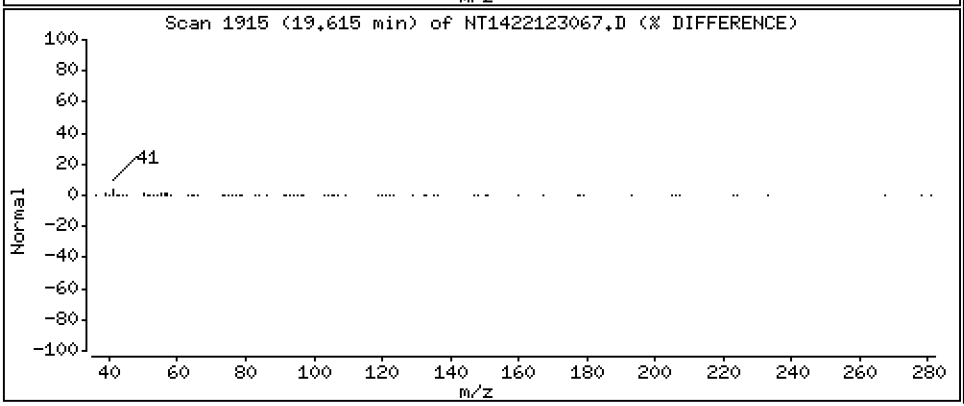












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

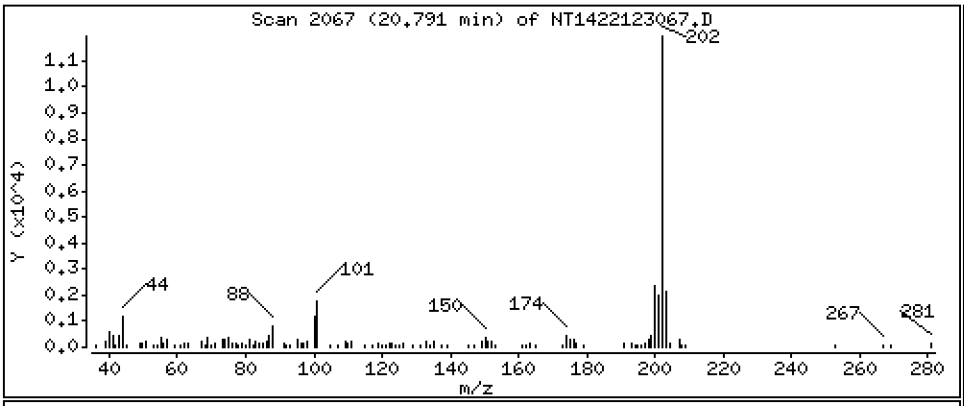
Operator: VTS

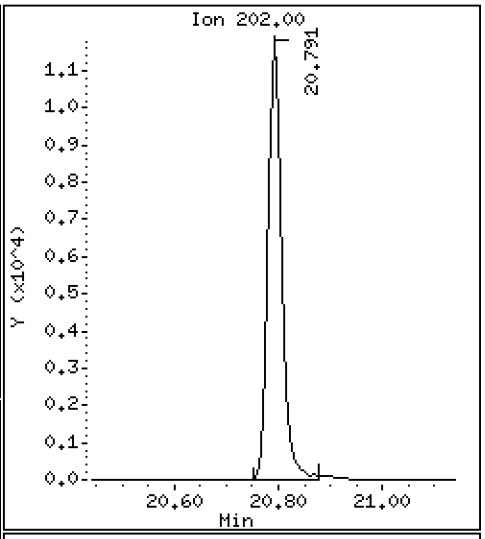
Column phase: ZB-5msi

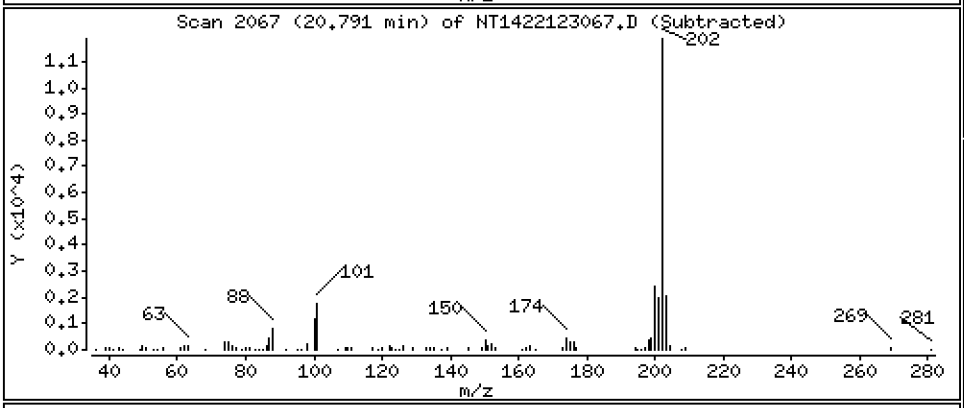
Column diameter: 0.25

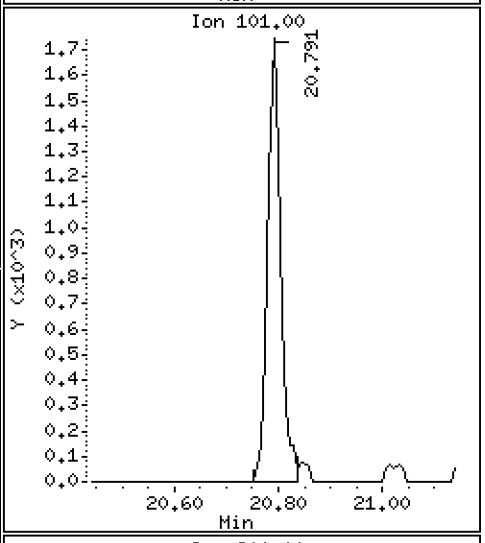
64 Fluoranthene

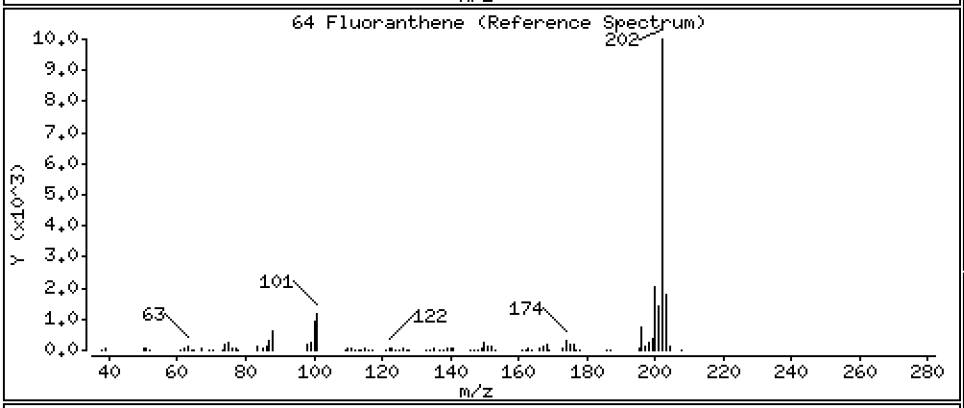
Concentration: 0.2381 ug/mL

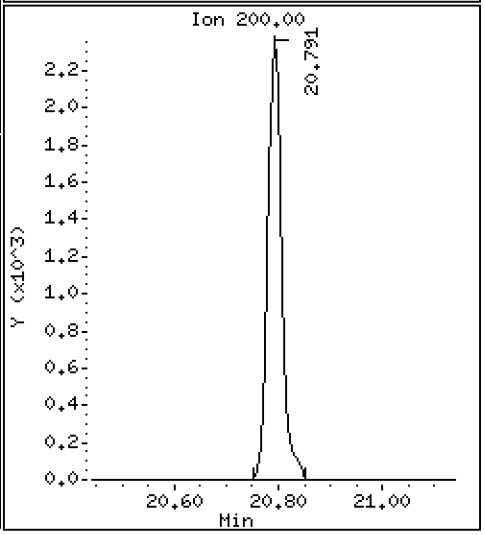


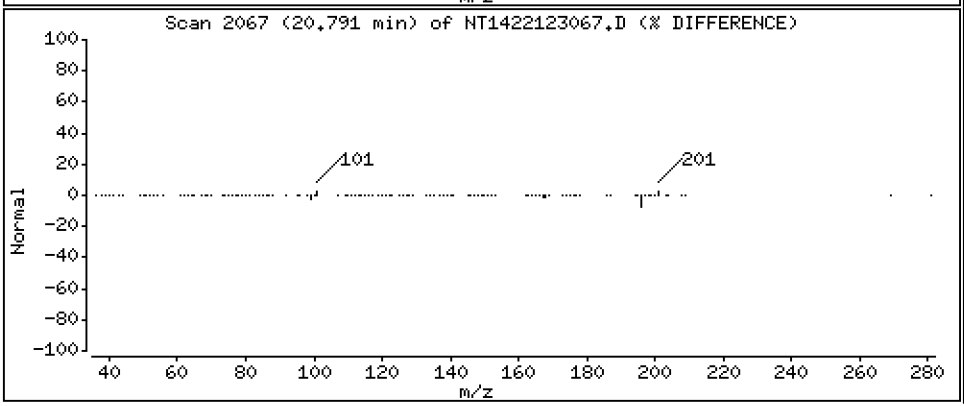












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

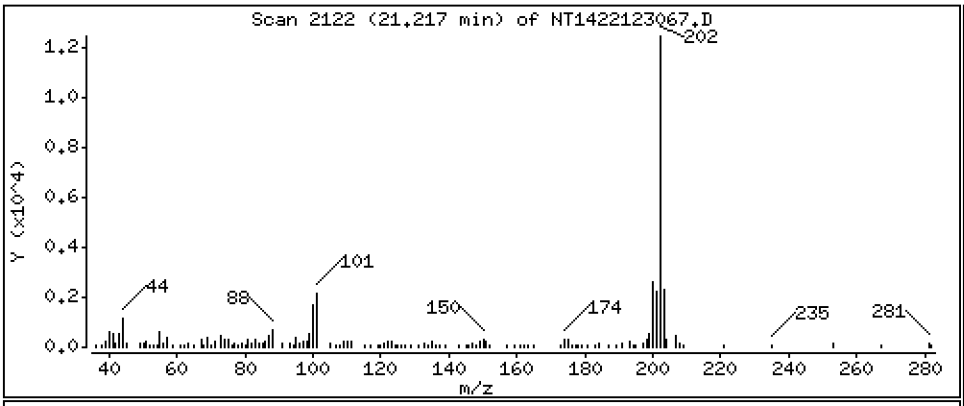
Operator: VTS

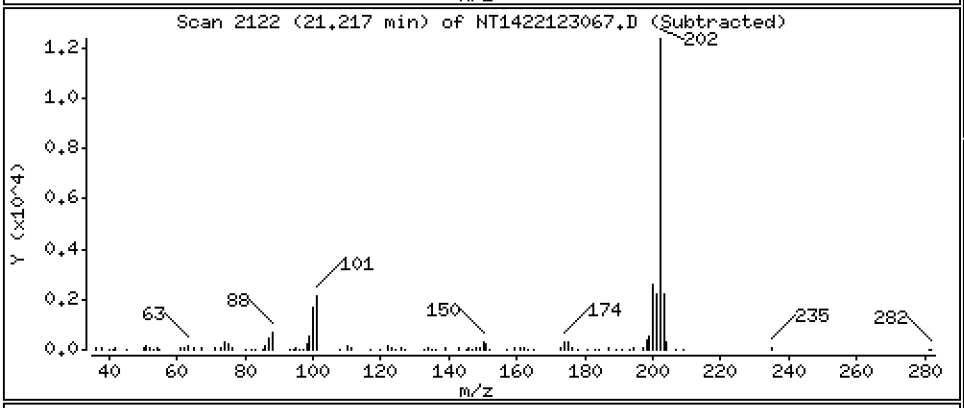
Column phase: ZB-5msi

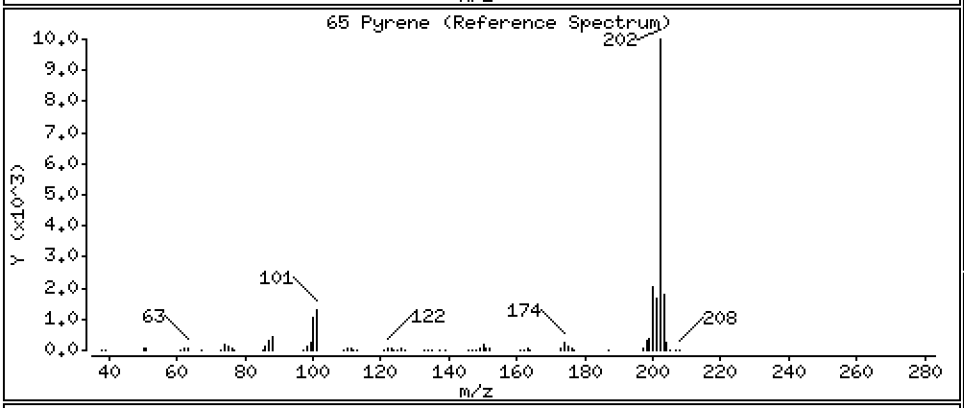
Column diameter: 0.25

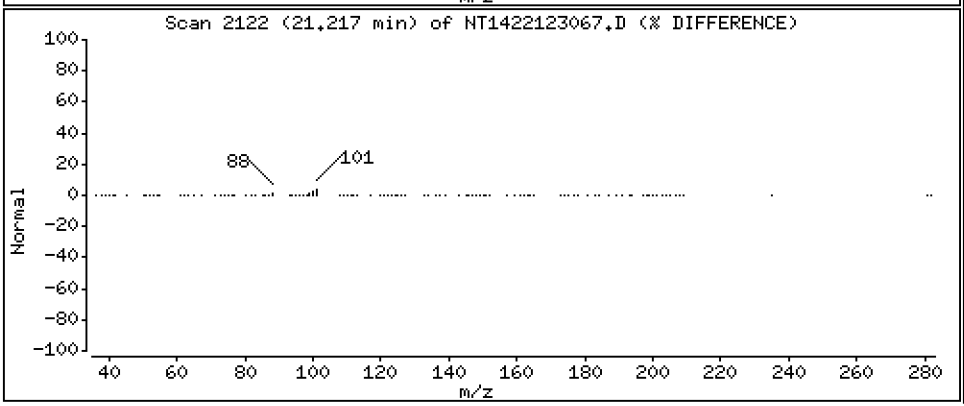
65 Pyrene

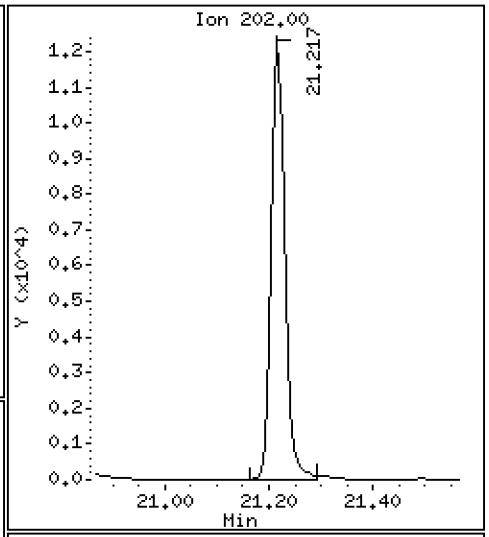
Concentration: 0.2334 ug/mL

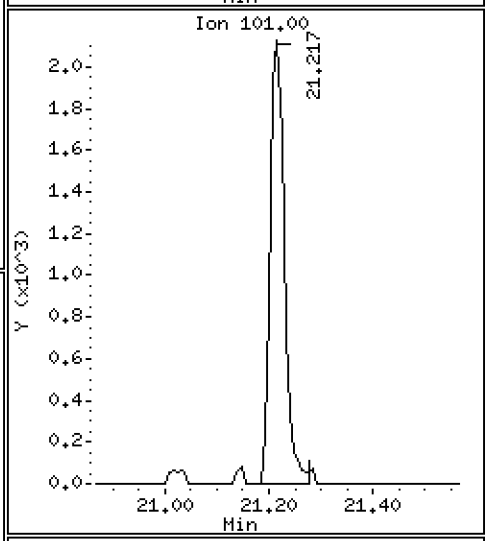


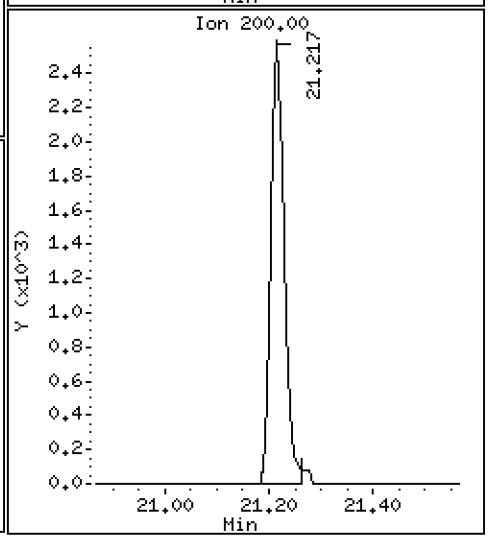












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

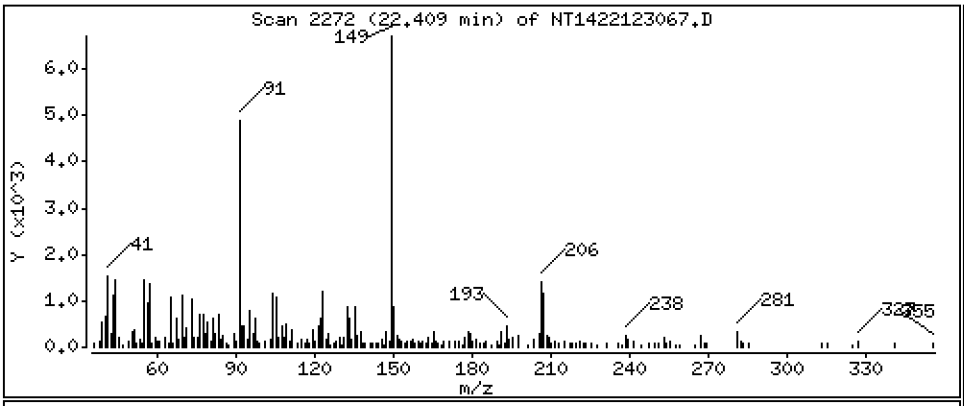
Operator: VTS

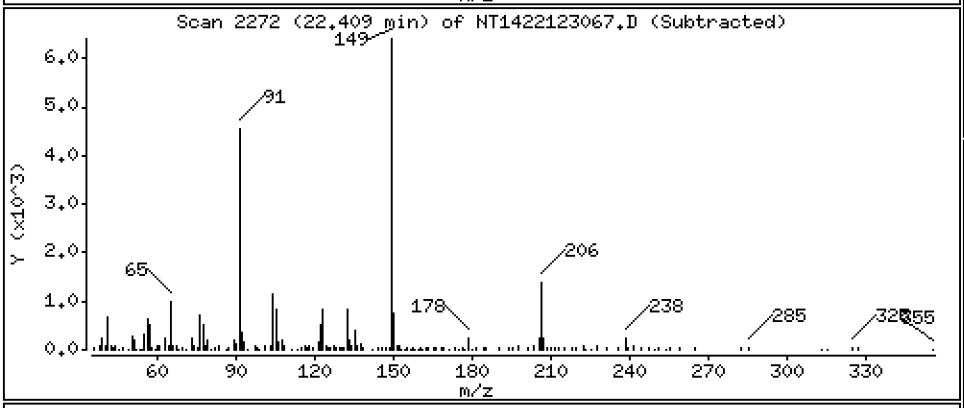
Column phase: ZB-5msi

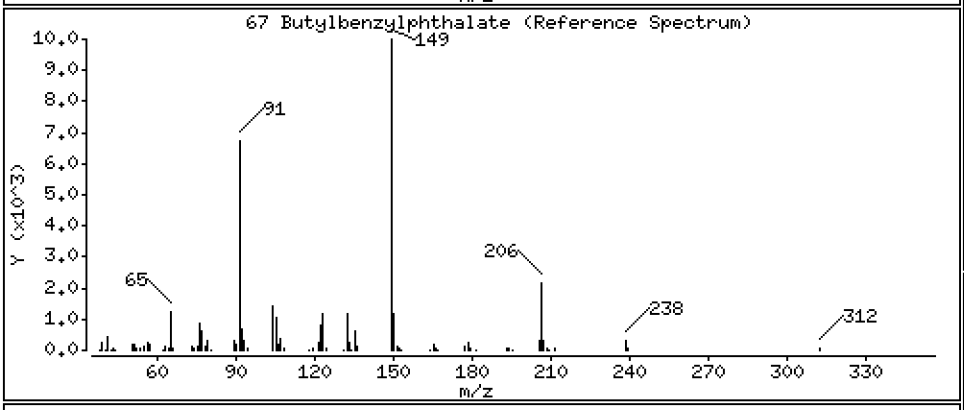
Column diameter: 0.25

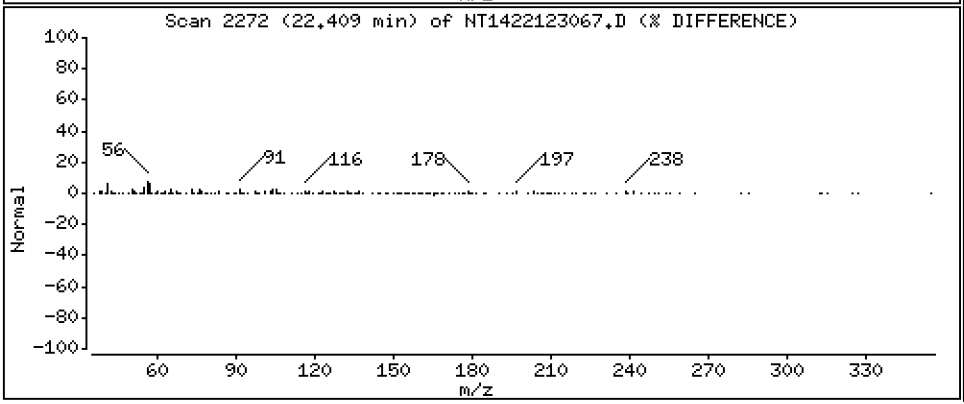
67 Butylbenzylphthalate

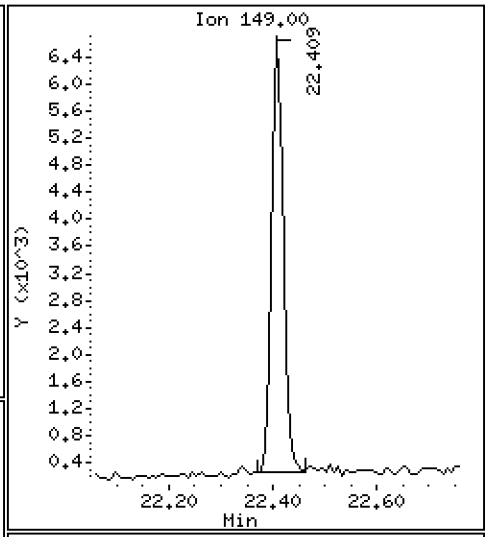
Concentration: 0.2699 ug/mL

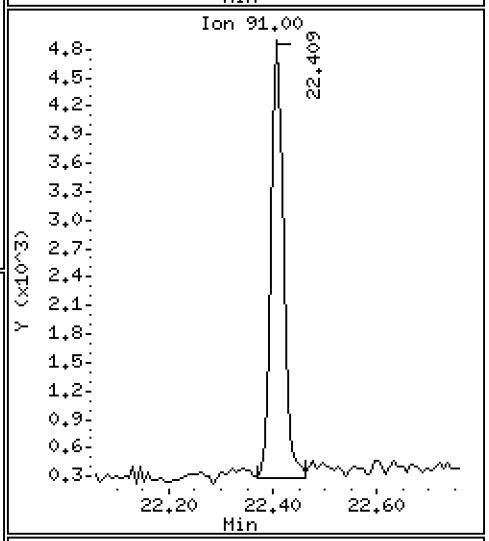


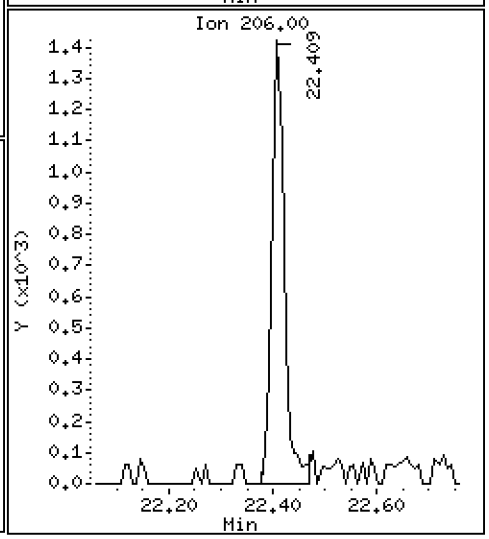












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

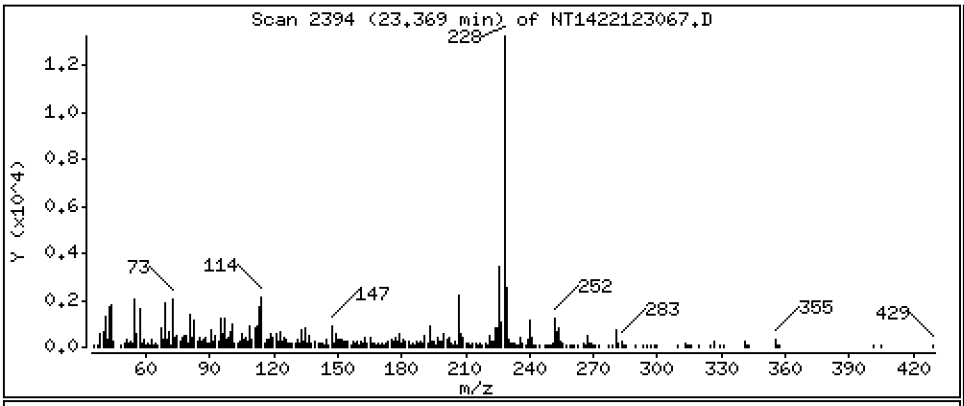
Operator: VTS

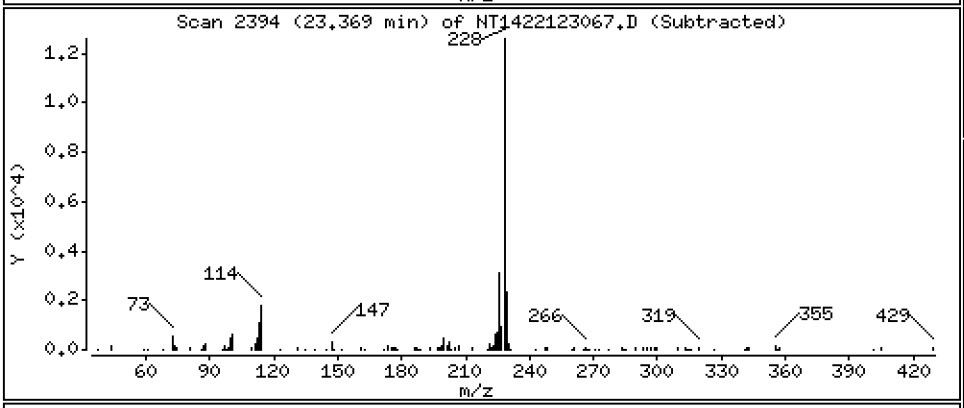
Column phase: ZB-5msi

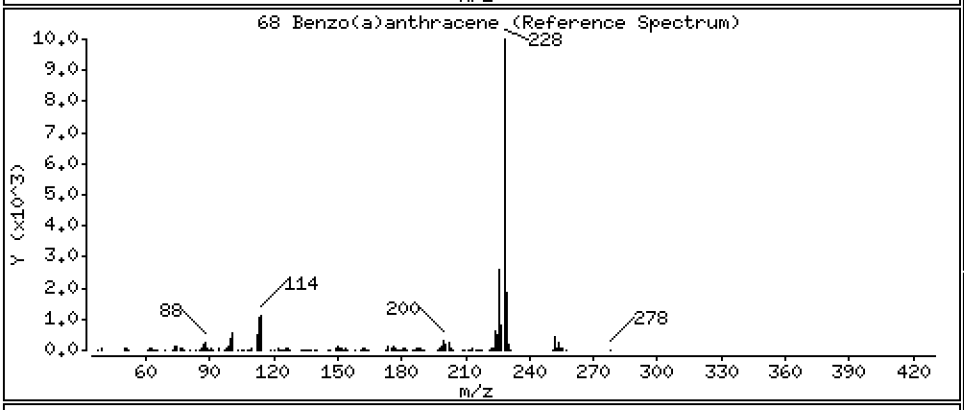
Column diameter: 0.25

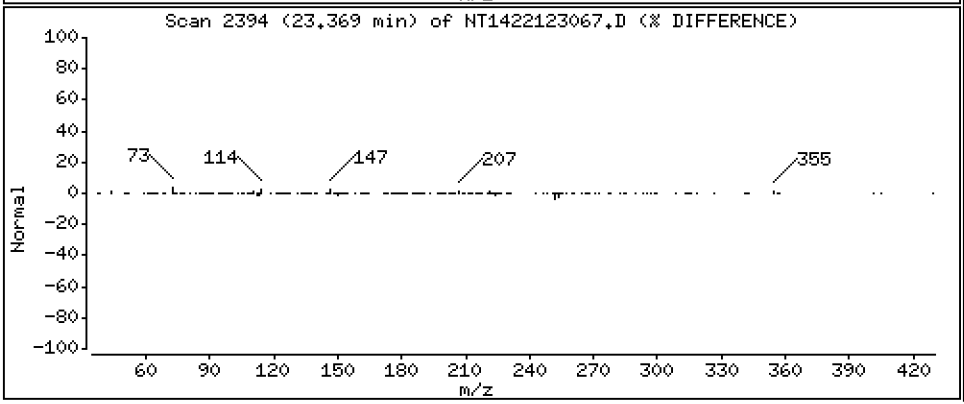
68 Benzo(a)anthracene

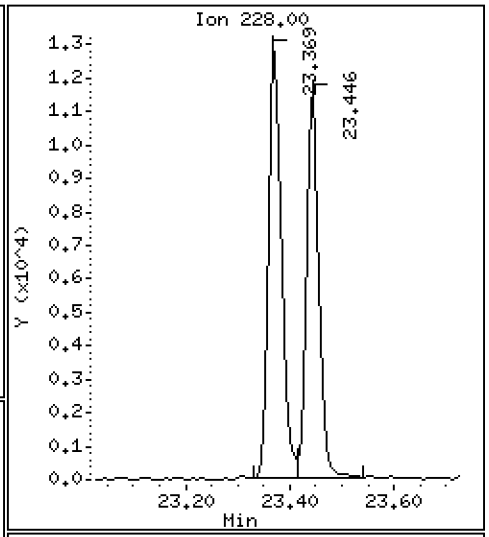
Concentration: 0.2639 ug/mL

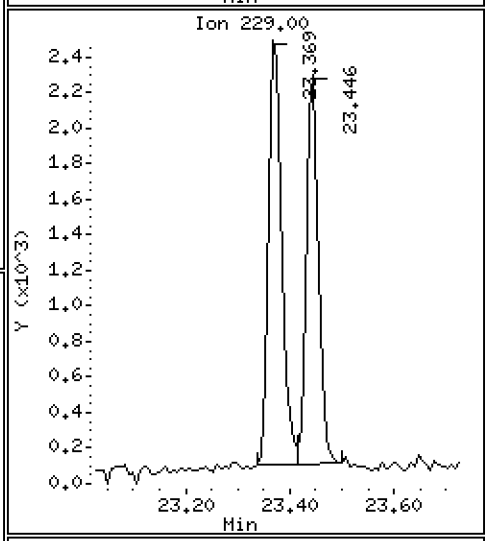


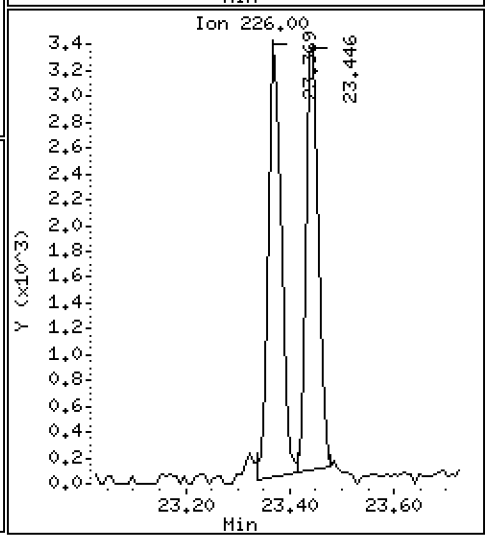












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

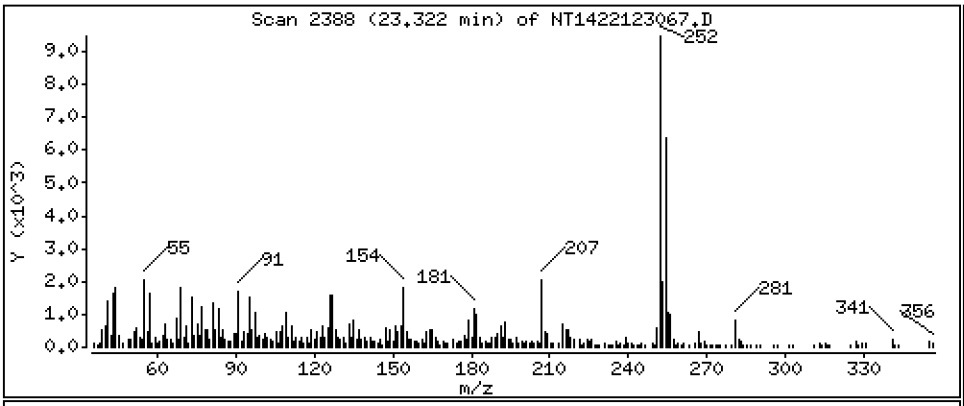
Operator: VTS

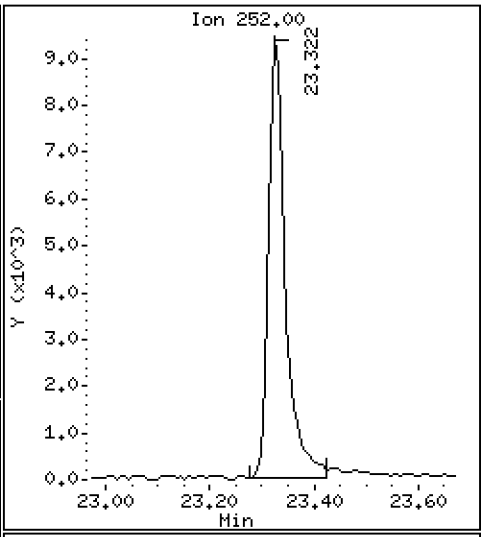
Column phase: ZB-5msi

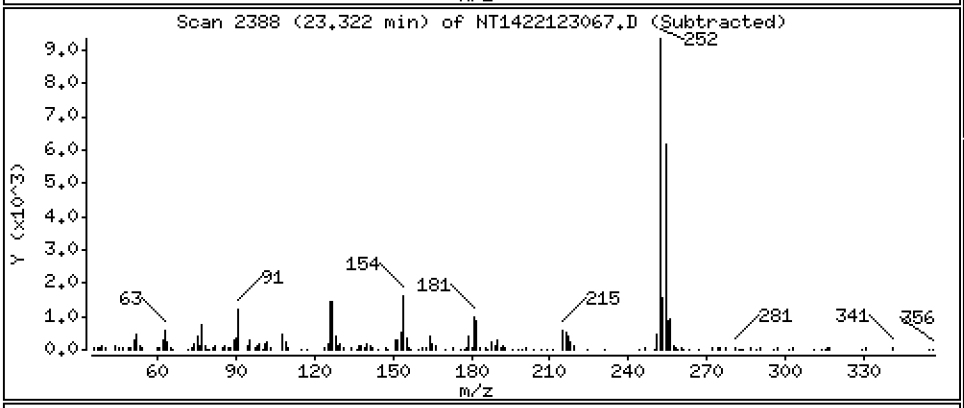
Column diameter: 0.25

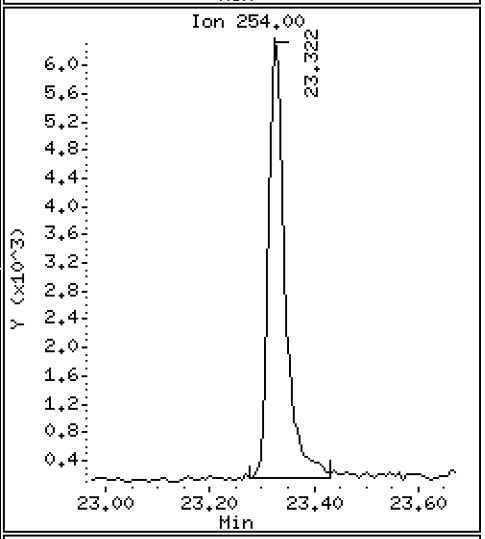
70 3,3'-Dichlorobenzidine

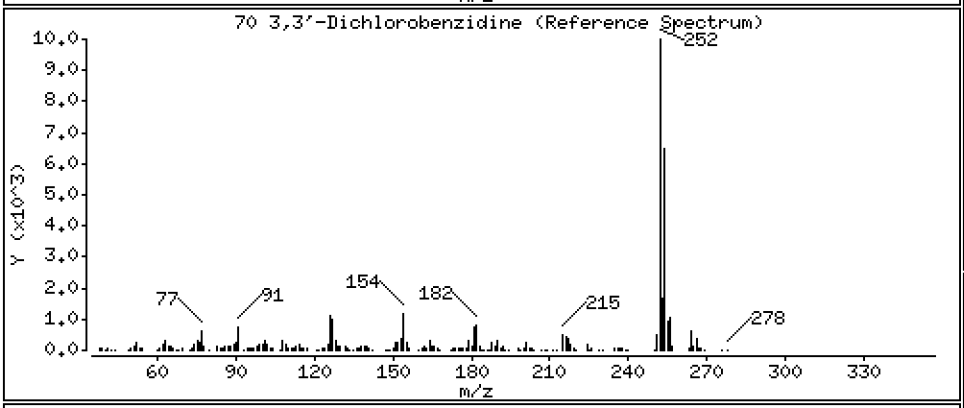
Concentration: 0.8193 ug/mL

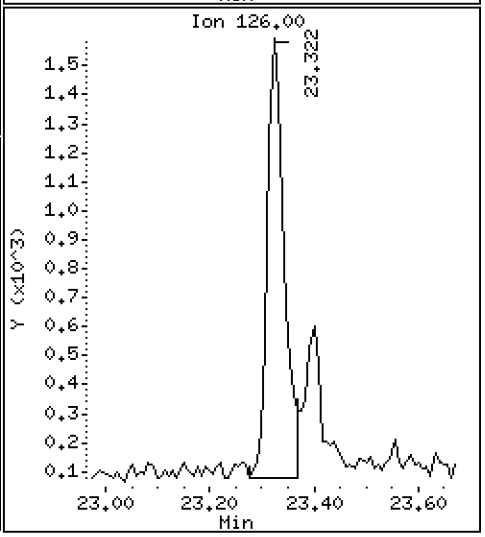


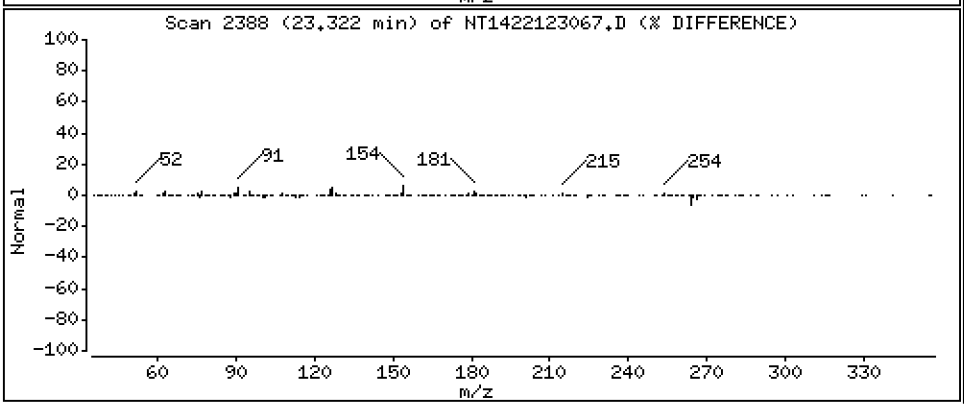












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

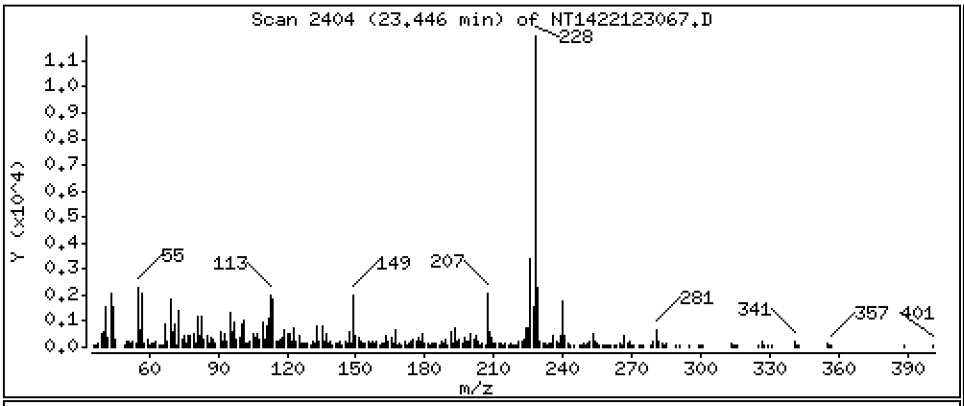
Operator: VTS

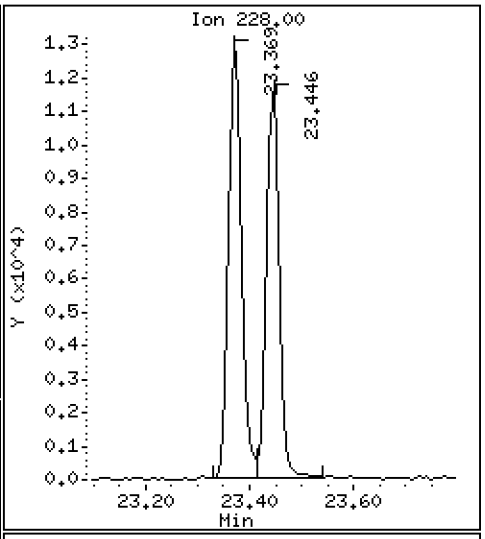
Column phase: ZB-5msi

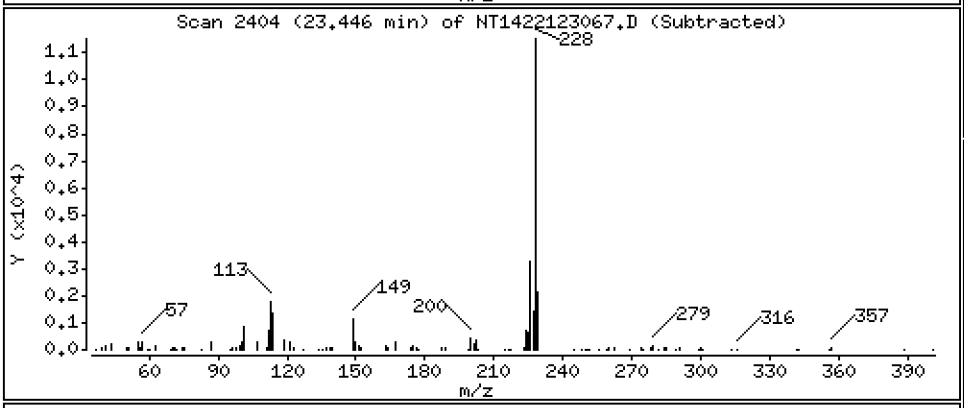
Column diameter: 0.25

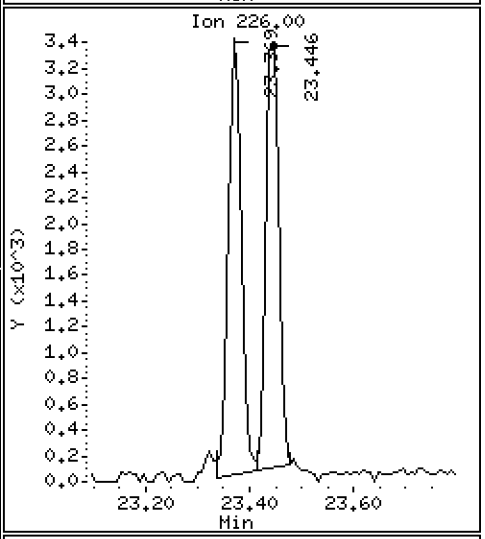
71 Chrysene

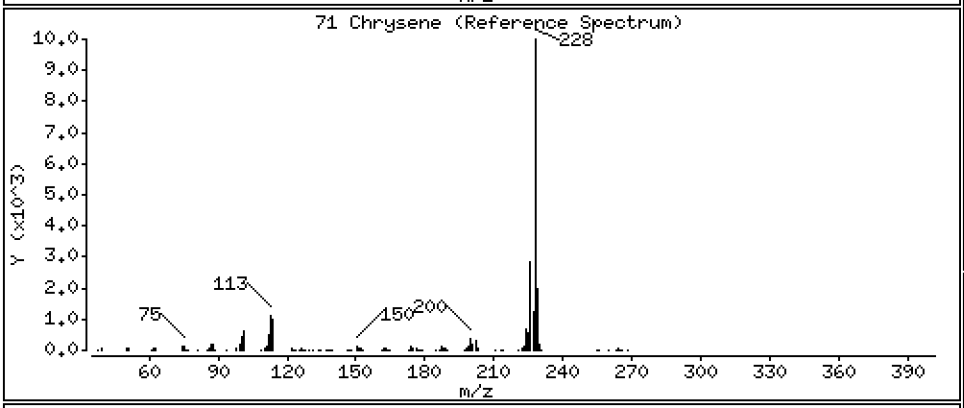
Concentration: 0.2429 ug/mL

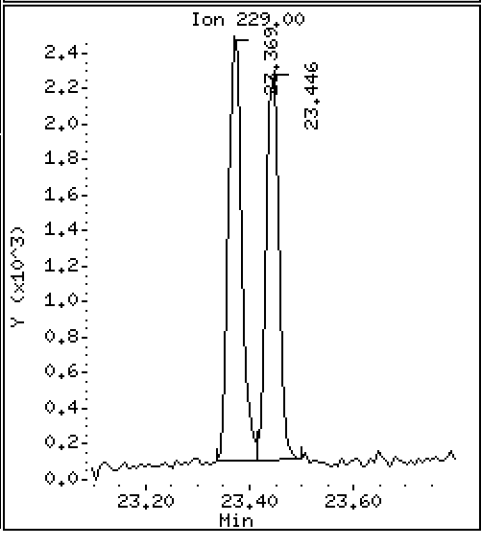


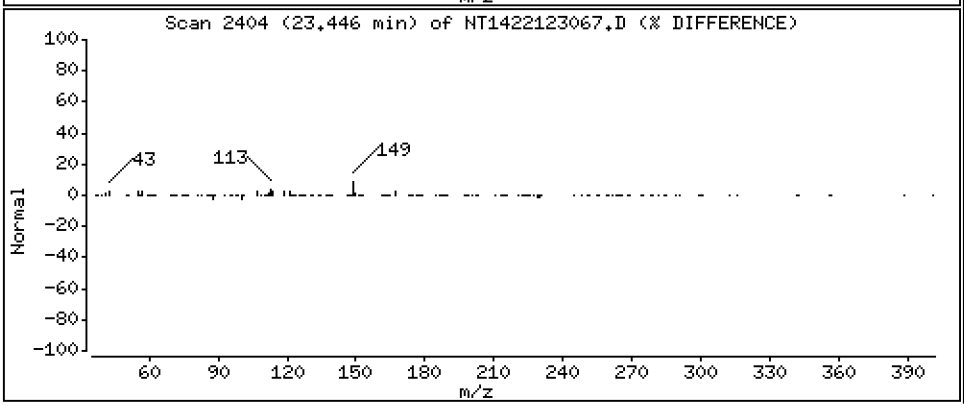












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

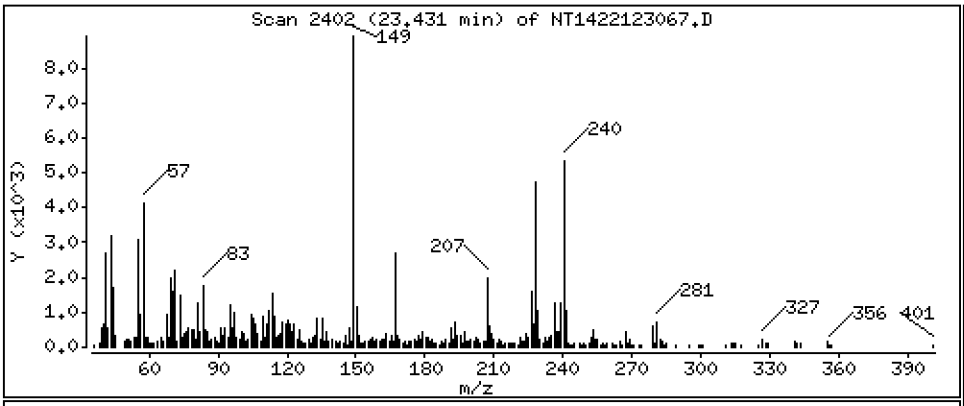
Operator: VTS

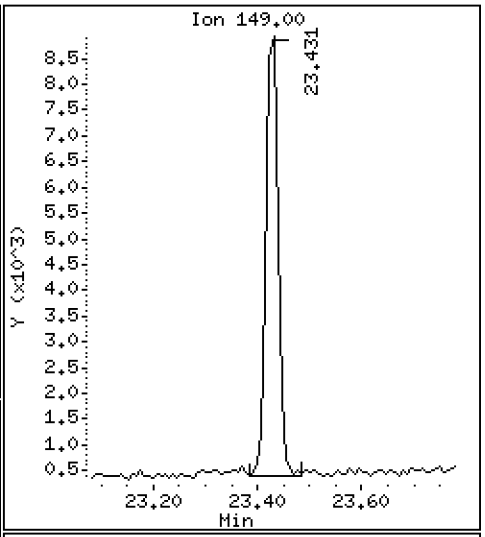
Column phase: ZB-5msi

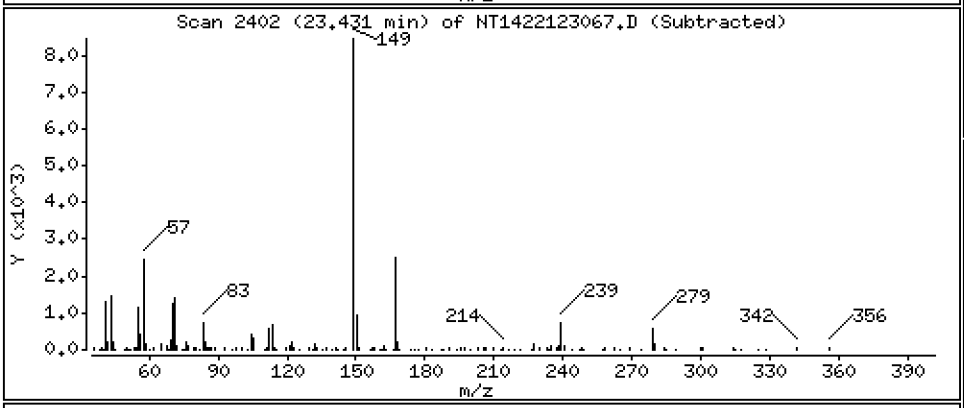
Column diameter: 0.25

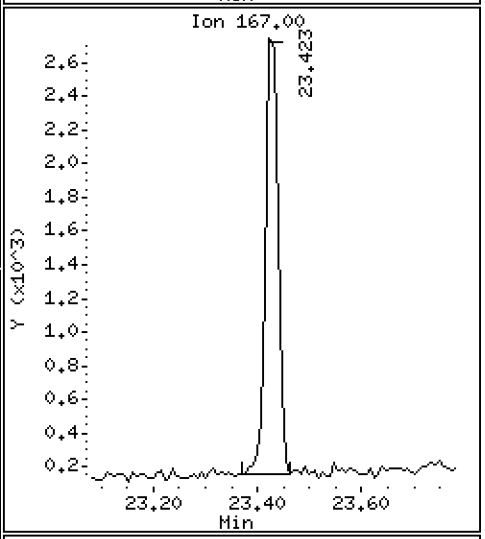
72 bis(2-Ethylhexyl)phthalate

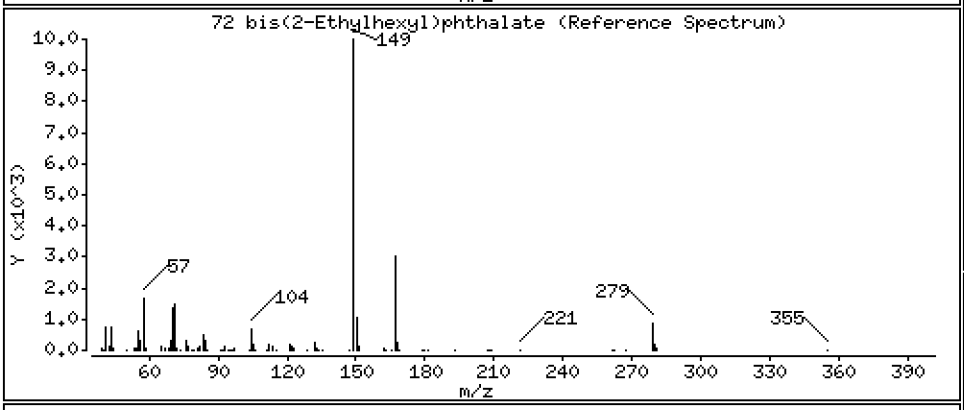
Concentration: 0.2611 ug/mL

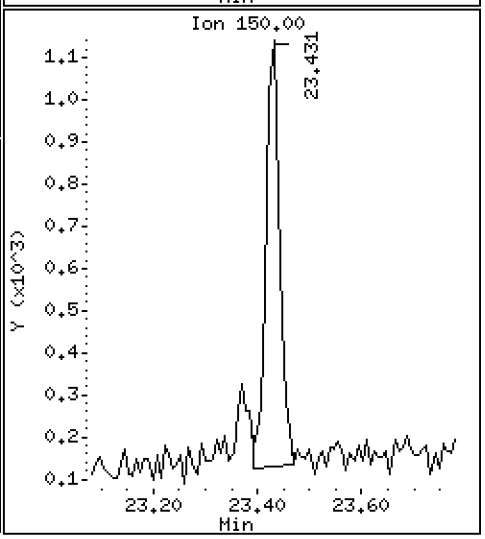


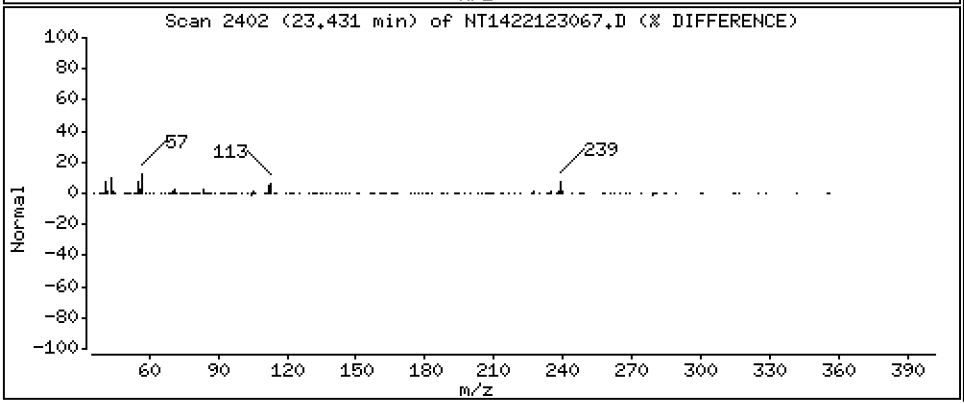












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

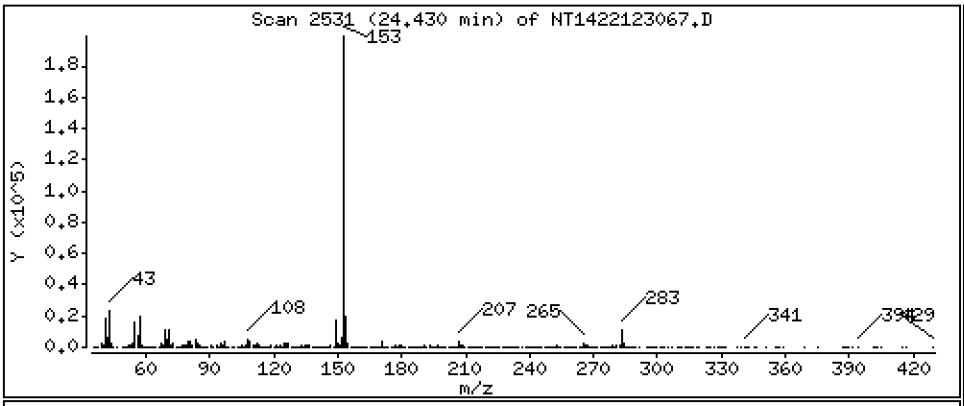
Operator: VTS

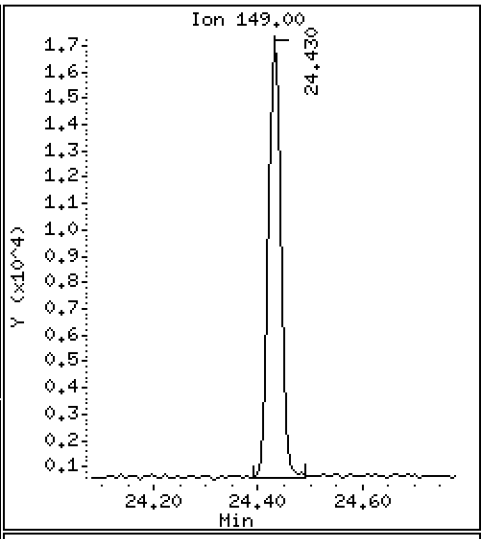
Column phase: ZB-5msi

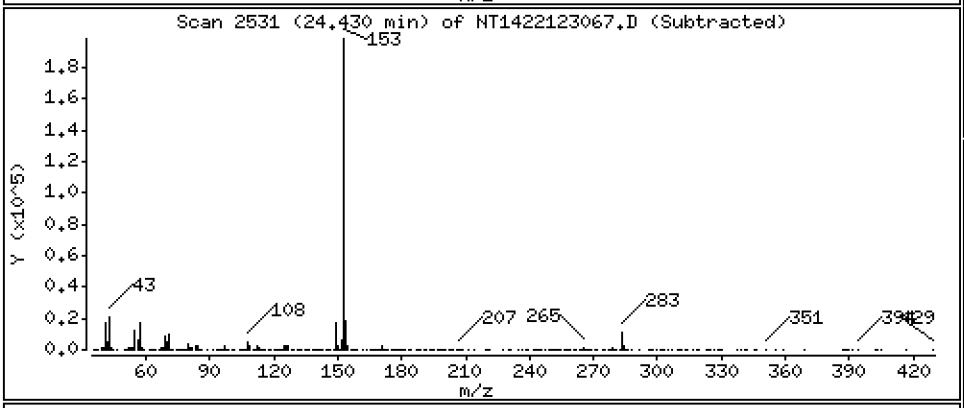
Column diameter: 0.25

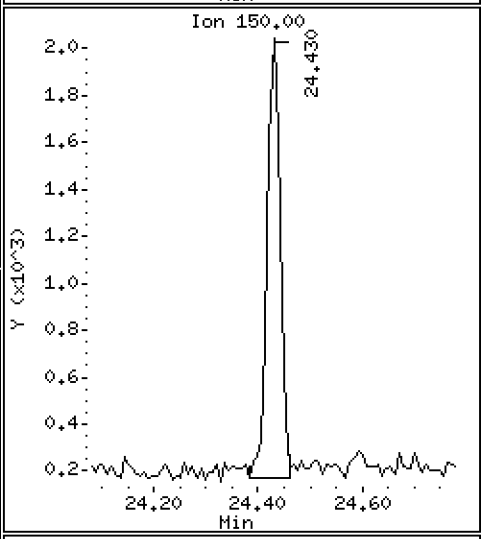
73 Di-n-octylphthalate

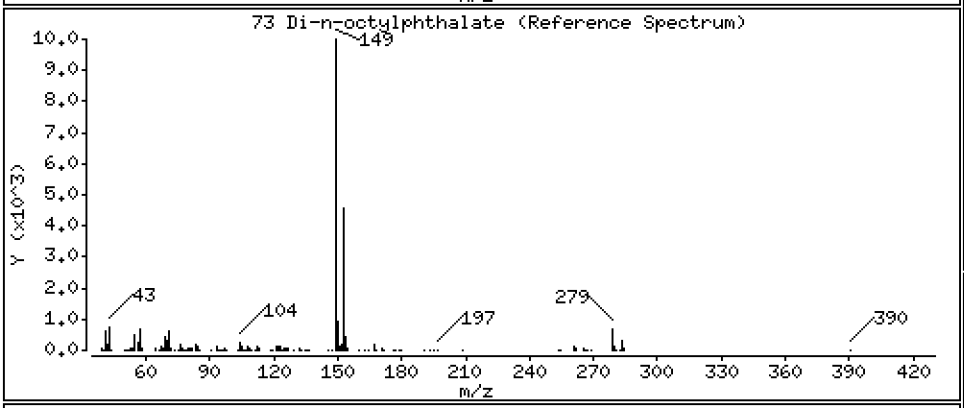
Concentration: 0.2459 ug/mL

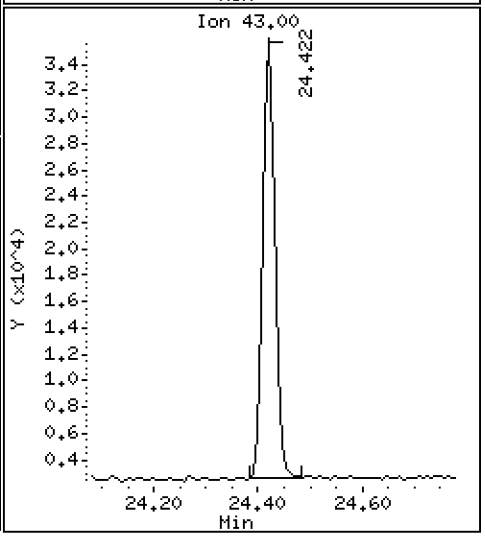


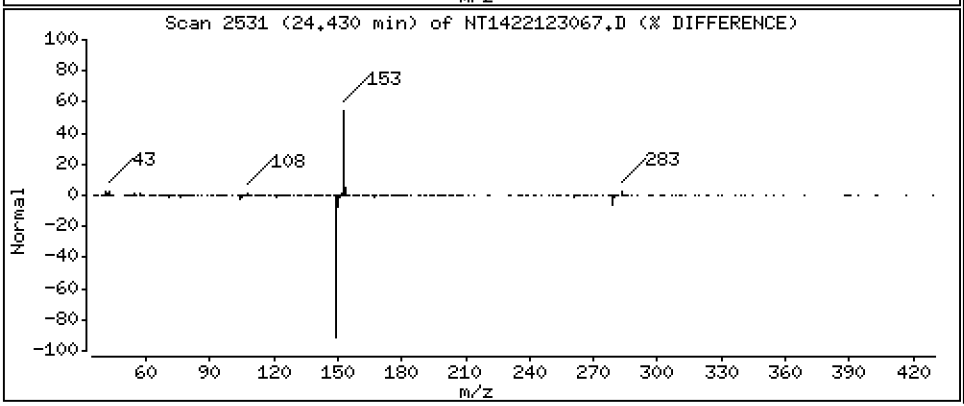












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

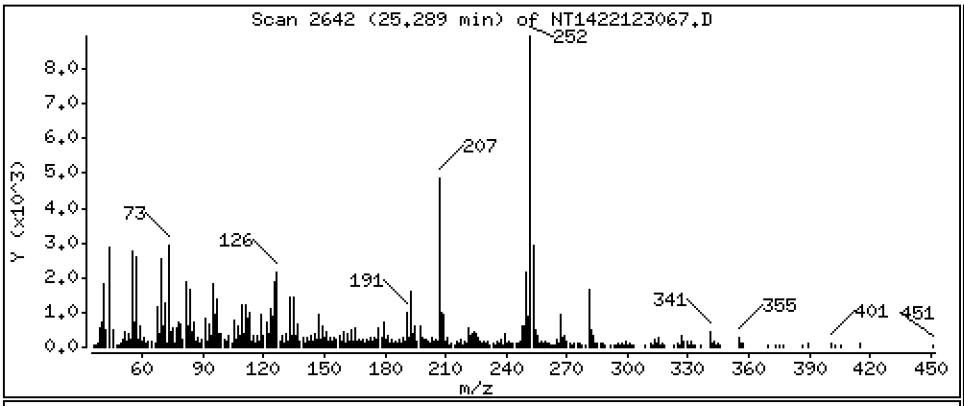
Operator: VTS

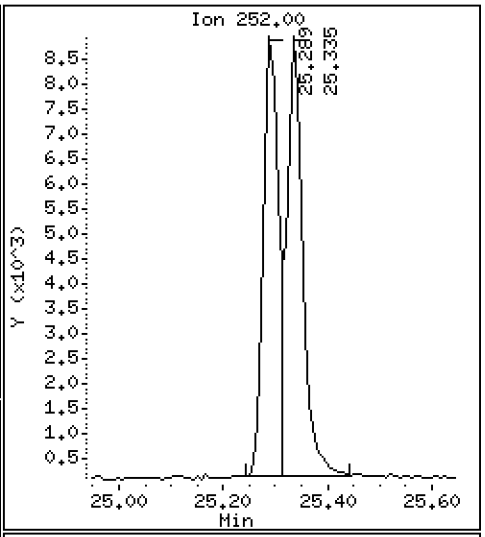
Column phase: ZB-5msi

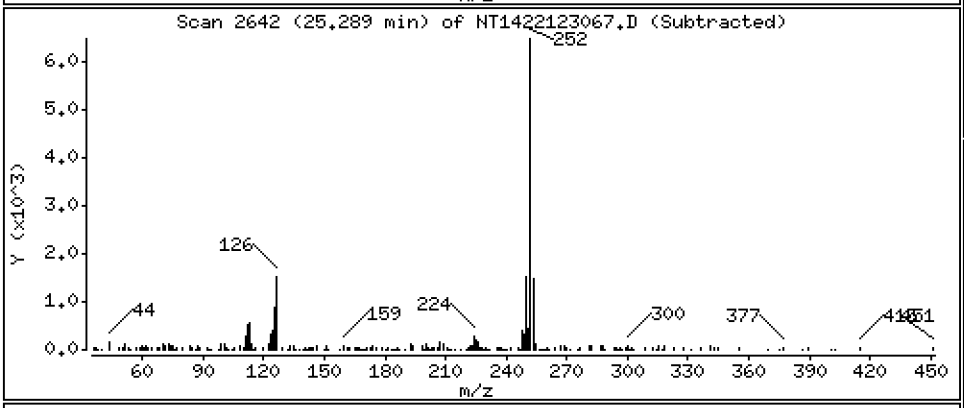
Column diameter: 0.25

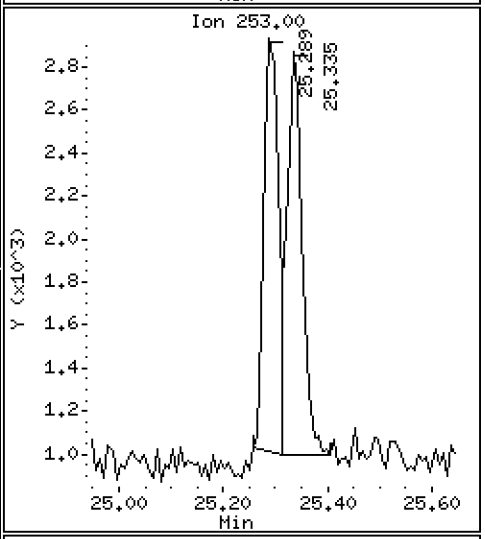
74 Benzo(b)fluoranthene

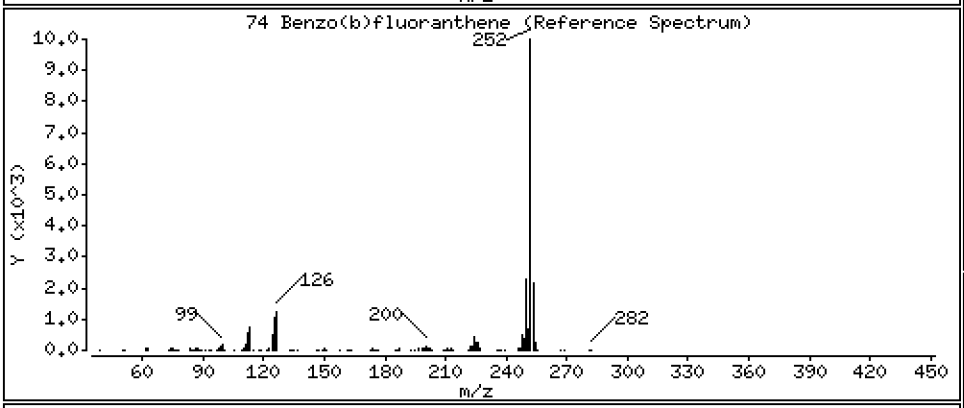
Concentration: 0.2414 ug/mL

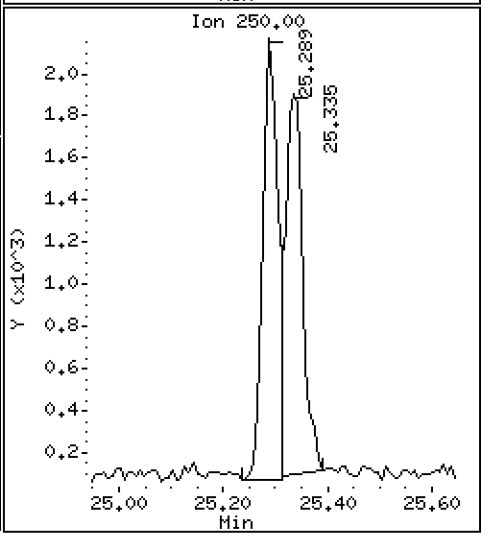


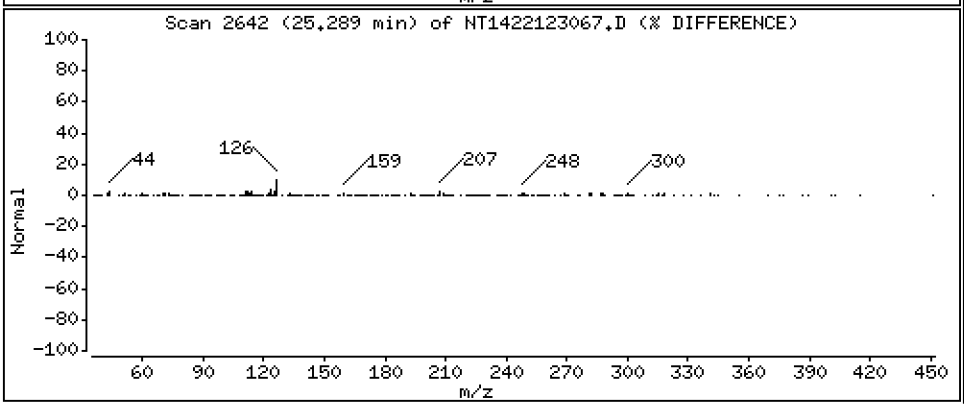












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

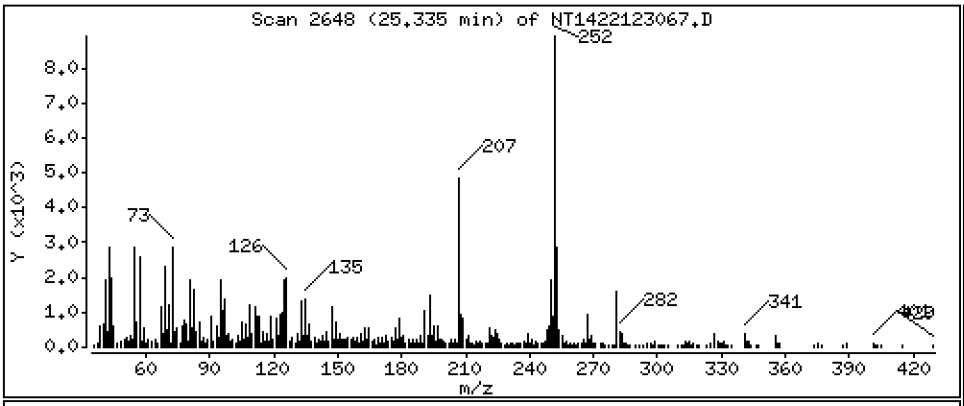
Operator: VTS

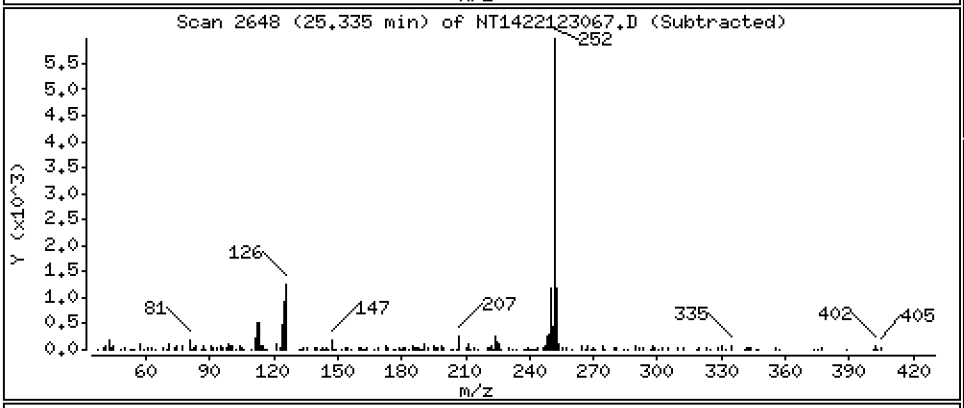
Column phase: ZB-5msi

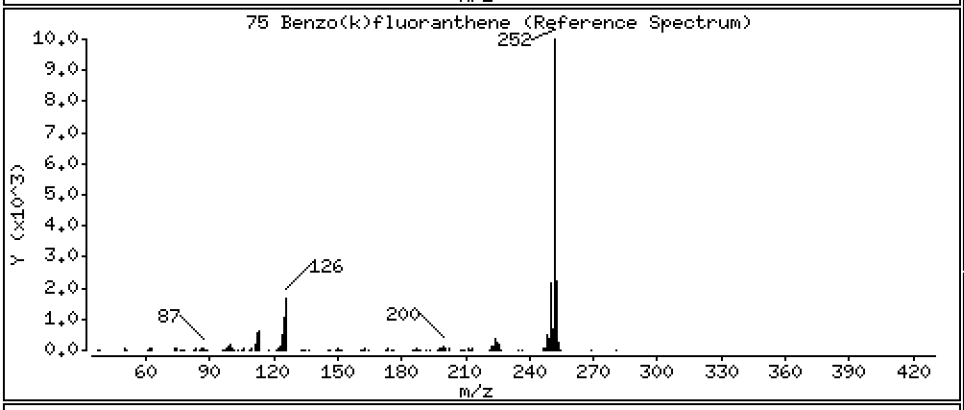
Column diameter: 0.25

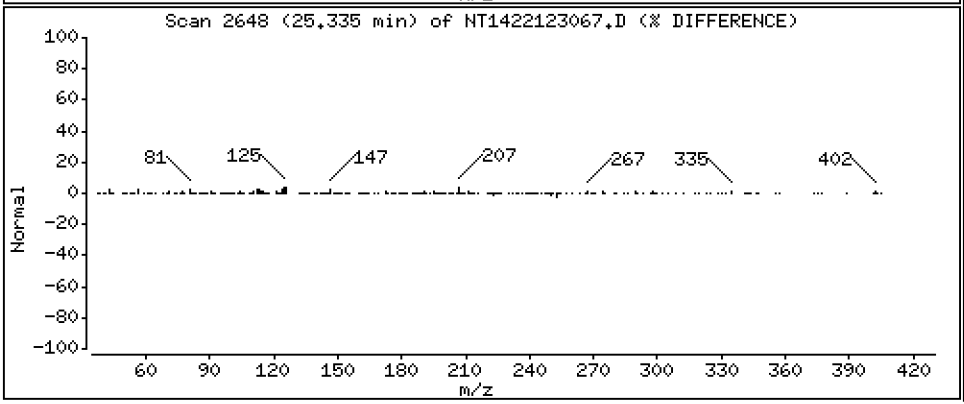
75 Benzo(k)fluoranthene

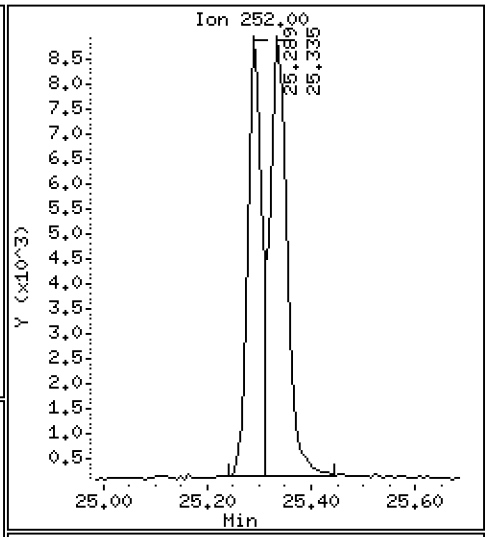
Concentration: 0.2810 ug/mL

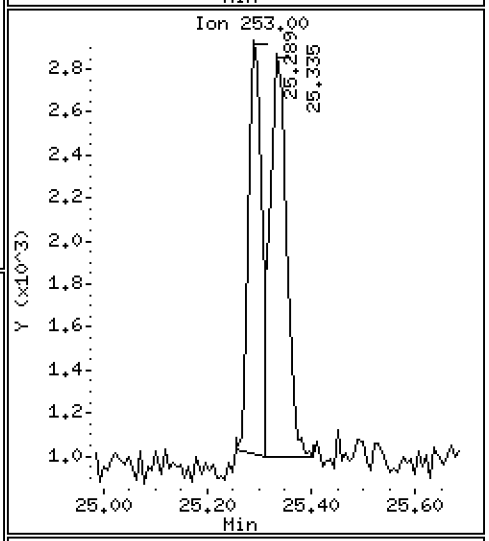


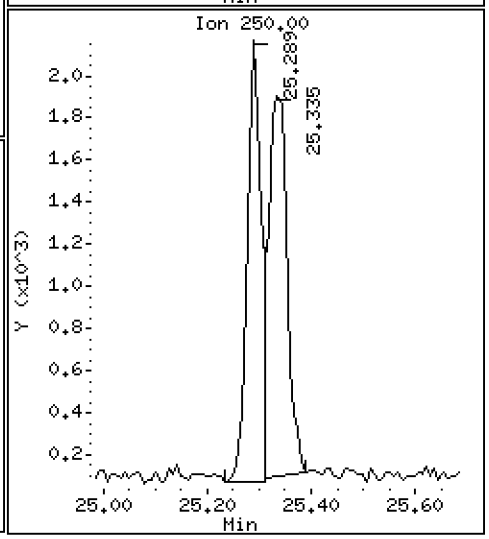












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

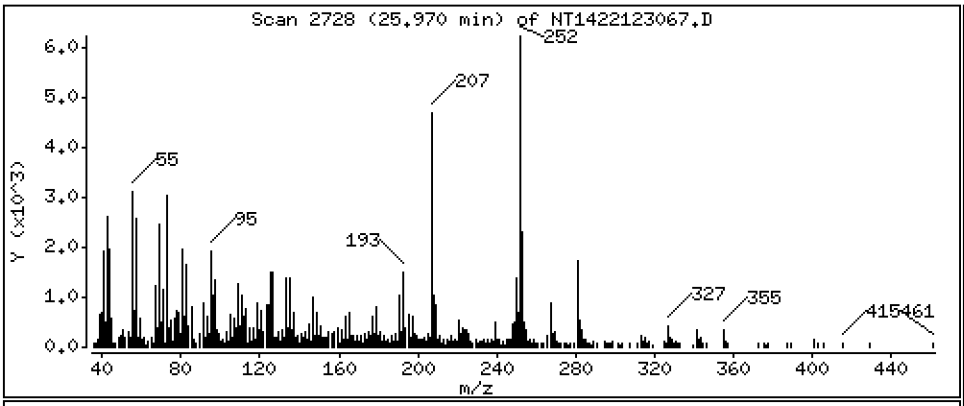
Operator: VTS

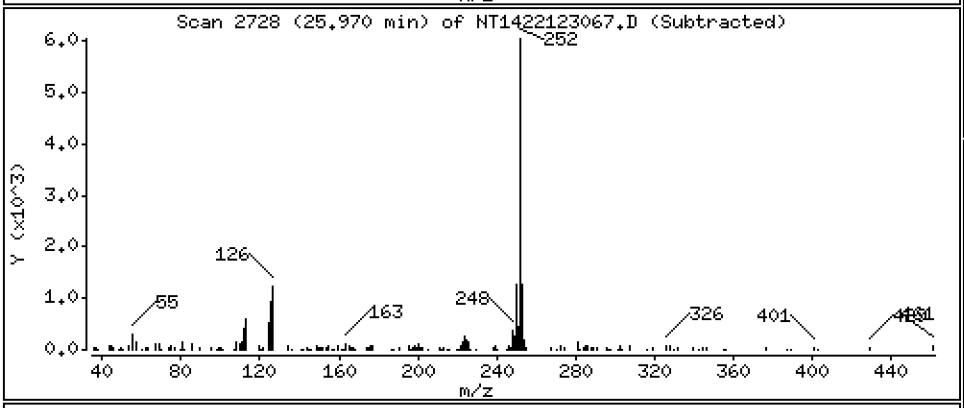
Column phase: ZB-5msi

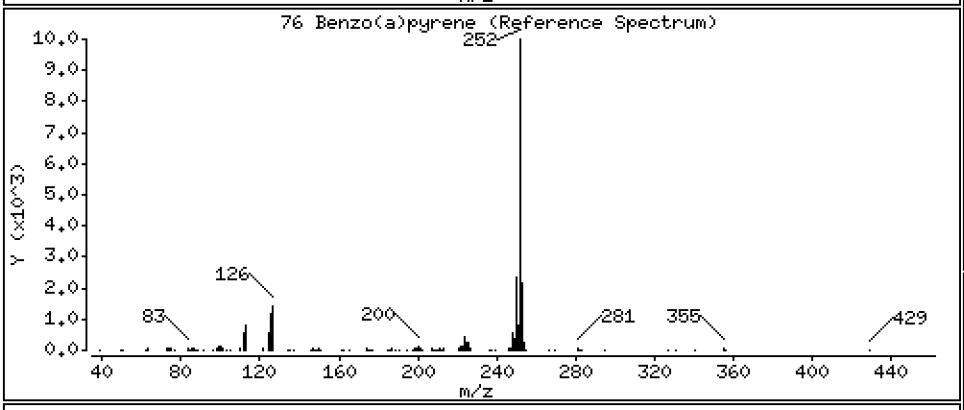
Column diameter: 0.25

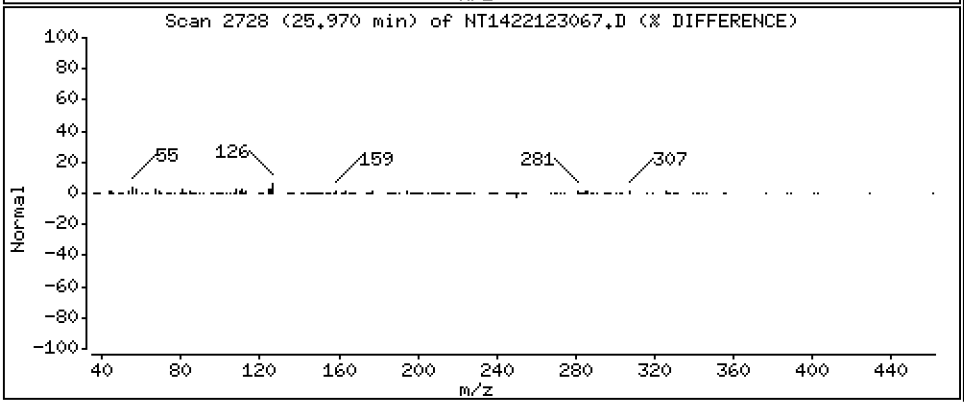
76 Benzo(a)pyrene

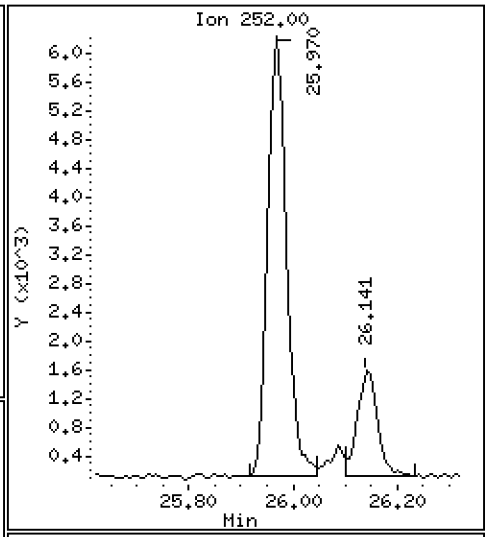
Concentration: 0.2524 ug/mL

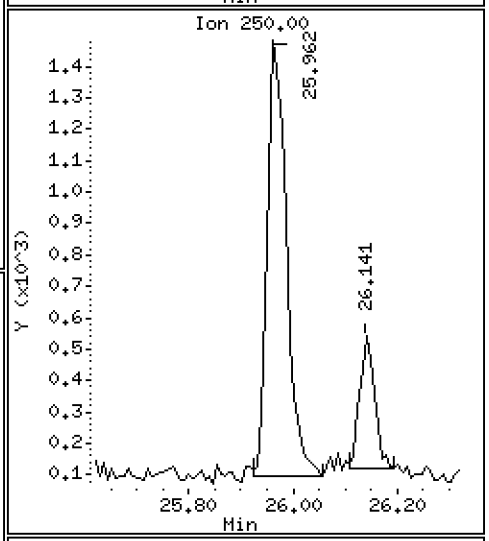


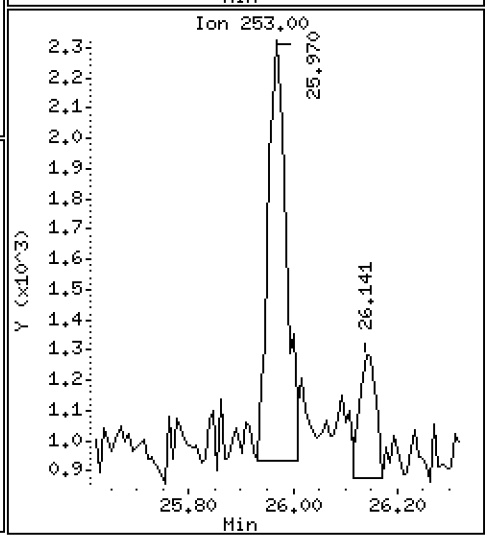












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

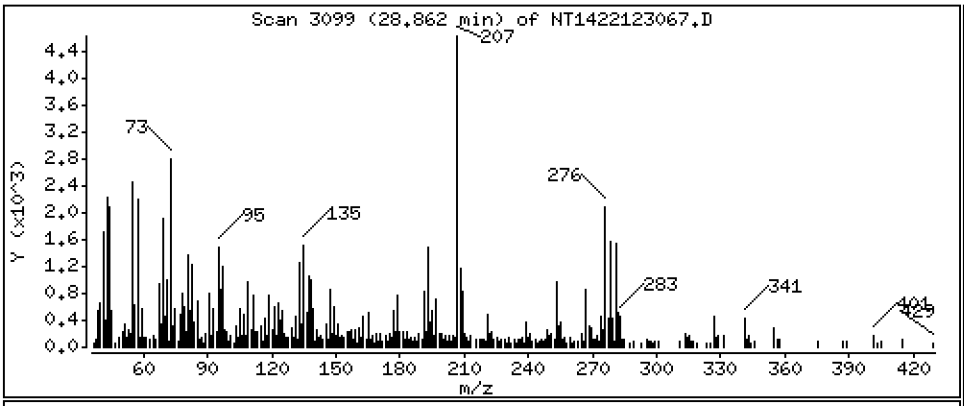
Operator: VTS

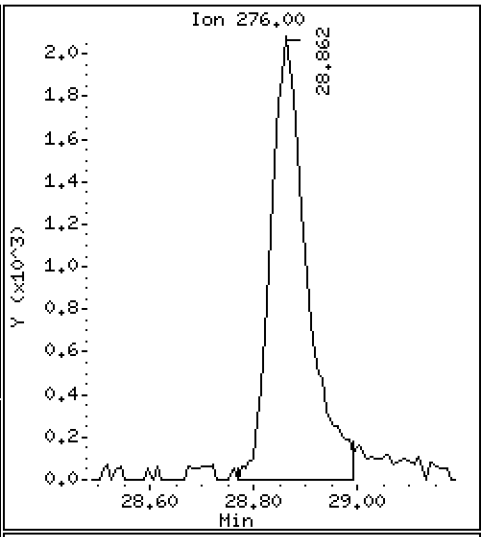
Column phase: ZB-5msi

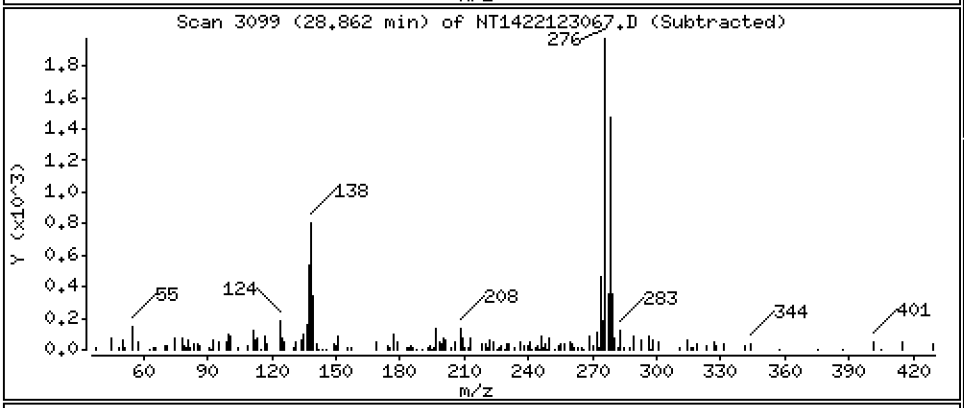
Column diameter: 0.25

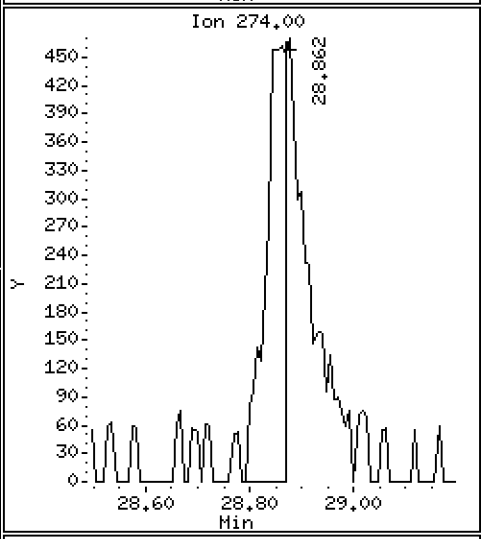
78 Indeno(1,2,3-cd)pyrene

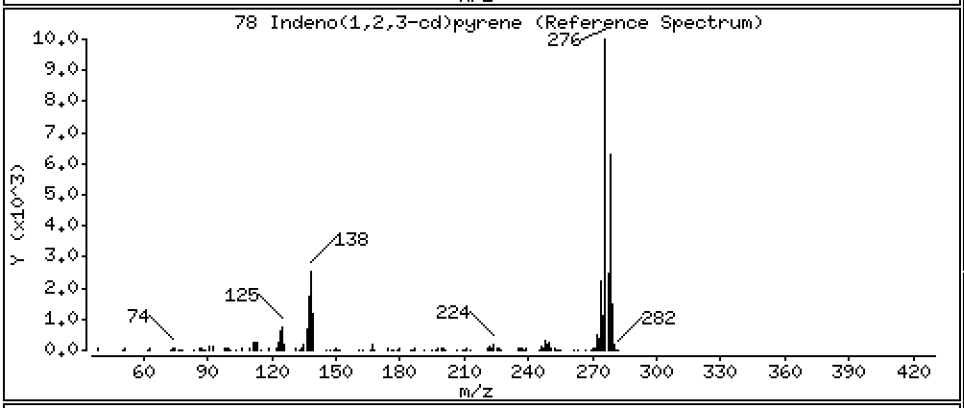
Concentration: 0.1494 ug/mL

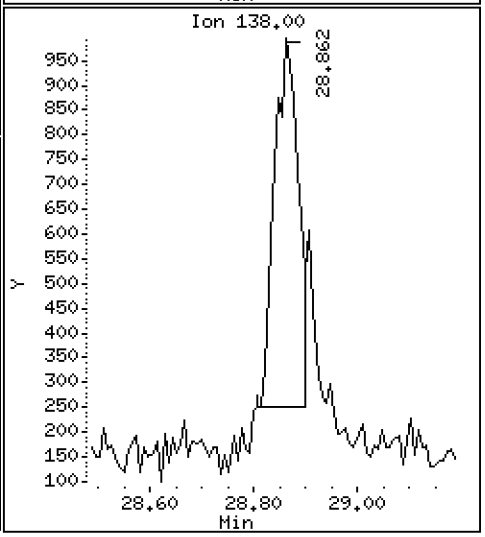


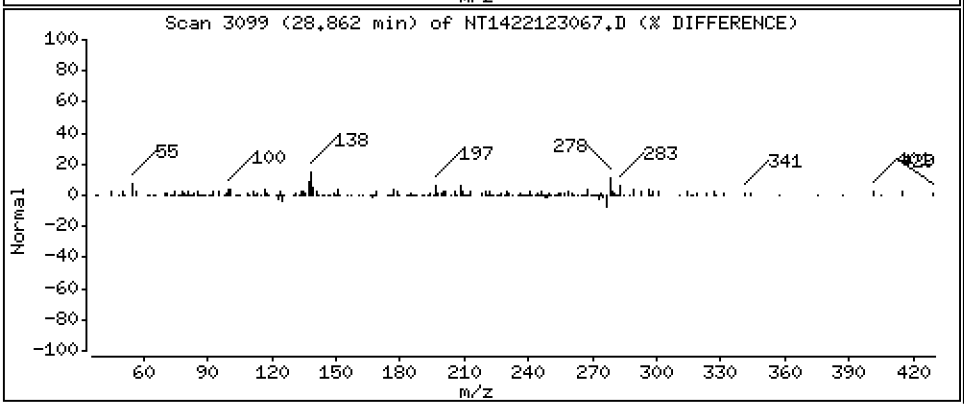












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

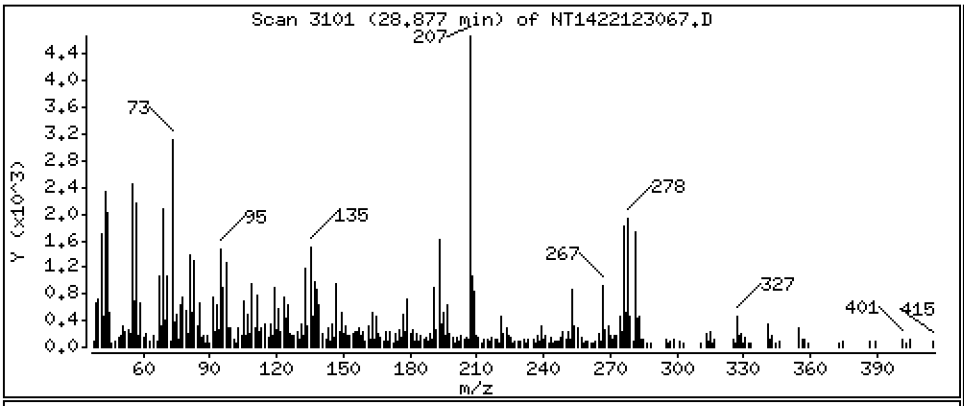
Operator: VTS

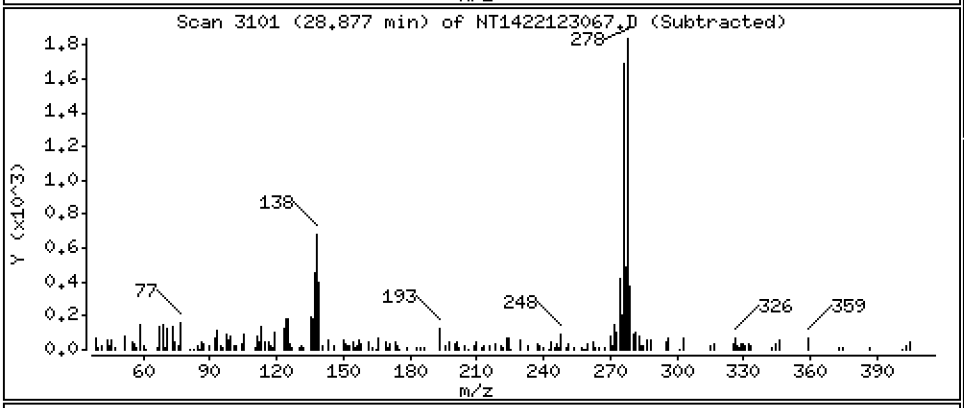
Column phase: ZB-5msi

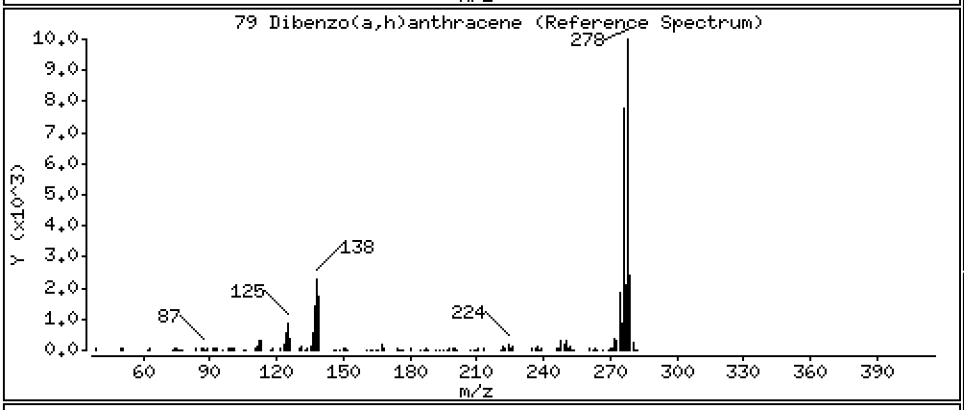
Column diameter: 0.25

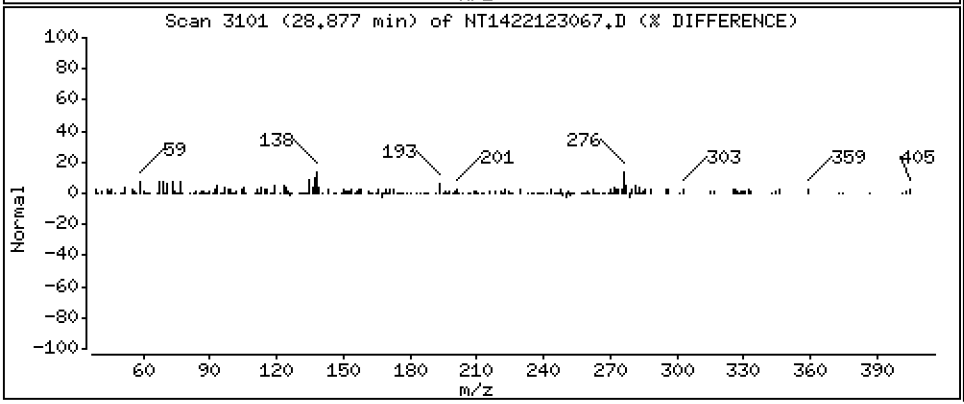
79 Dibenzo(a,h)anthracene

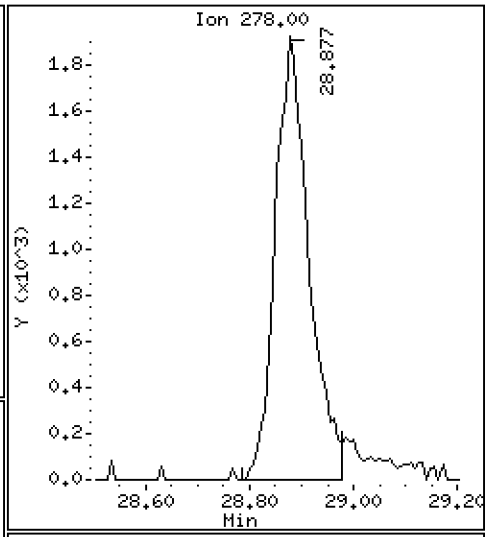
Concentration: 0.1509 ug/mL

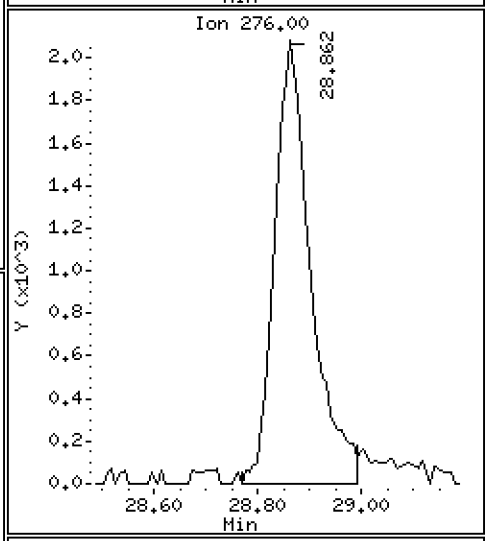


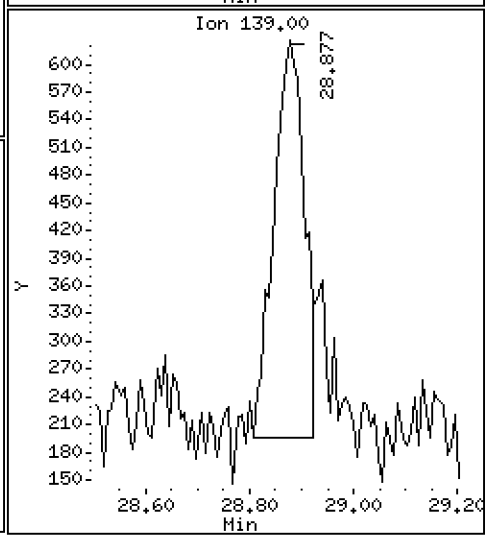












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

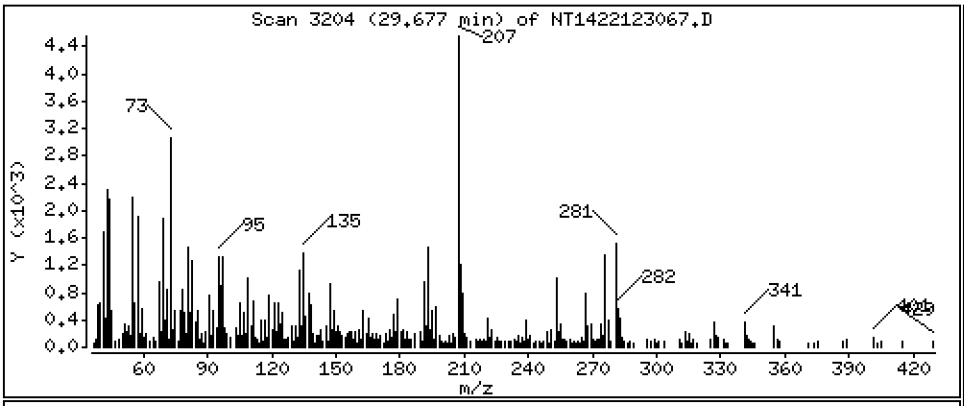
Operator: VTS

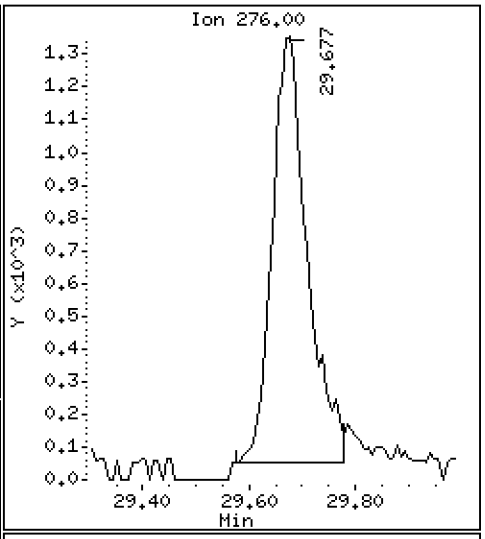
Column phase: ZB-5msi

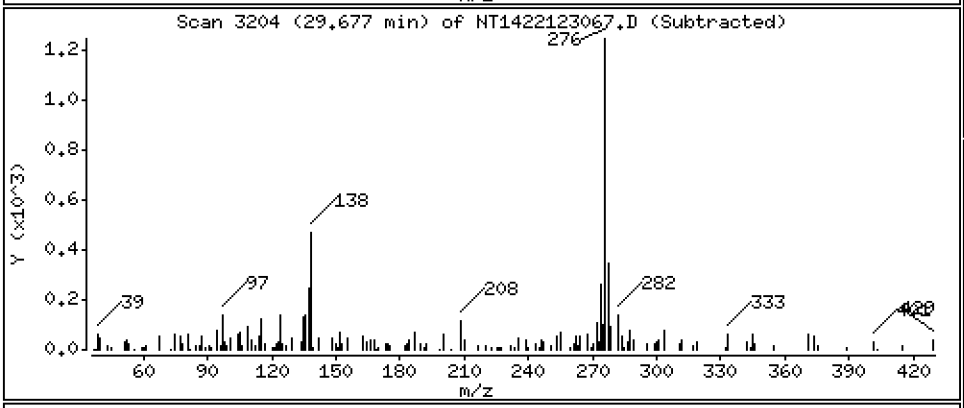
Column diameter: 0.25

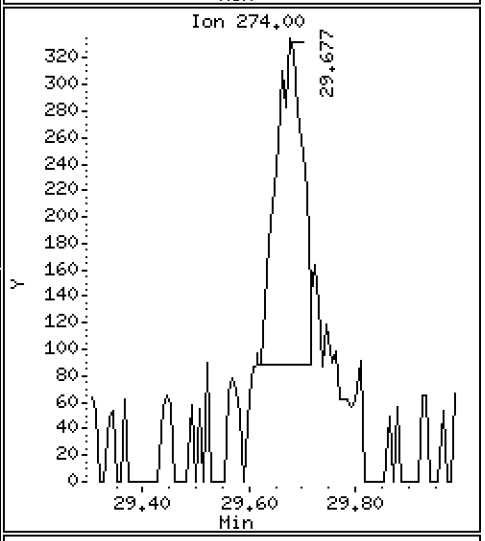
80 Benzo(g,h,i)perylene

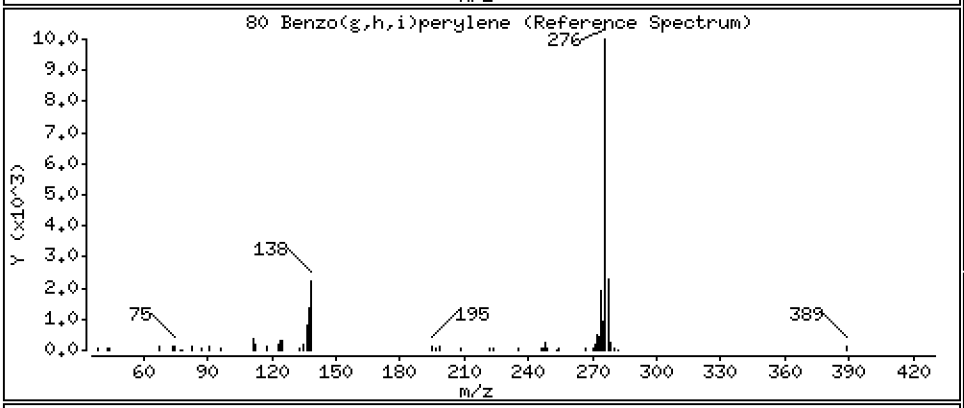
Concentration: 0.1058 ug/mL

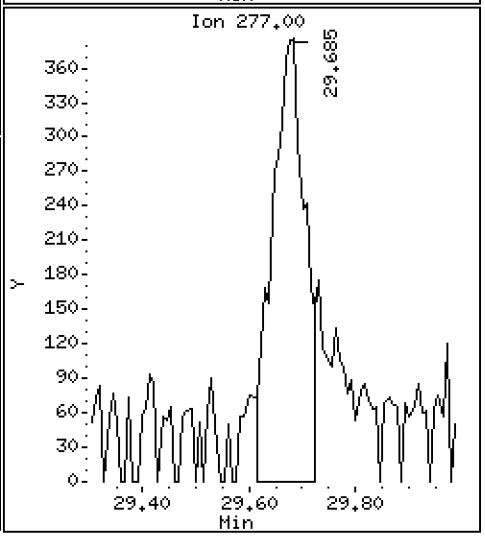


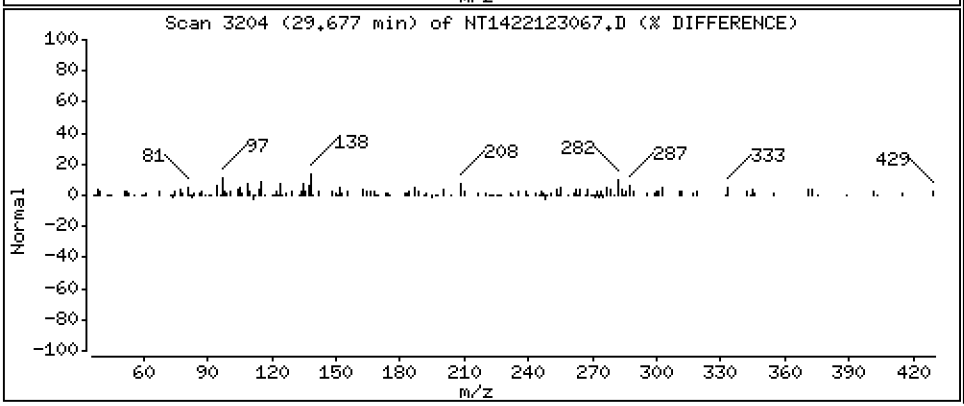












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

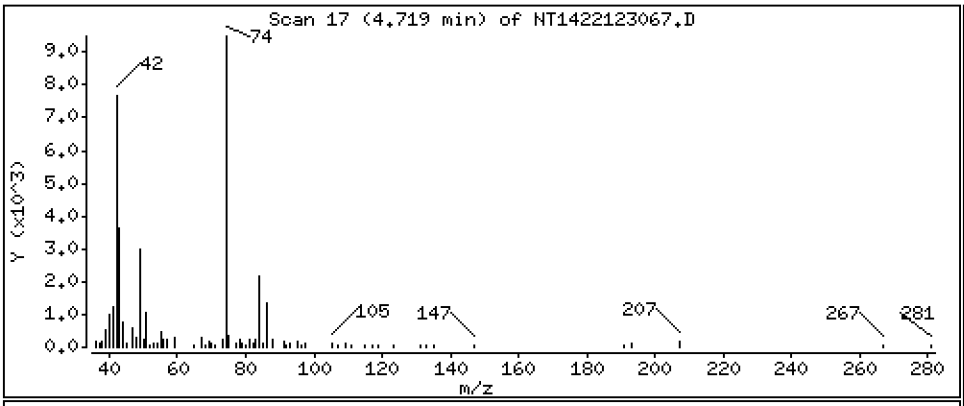
Operator: VTS

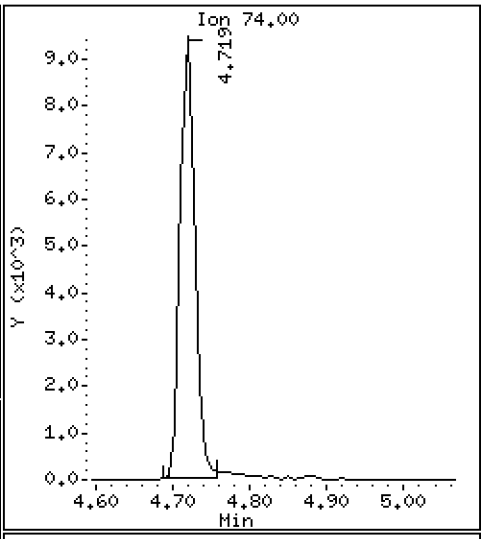
Column phase: ZB-5msi

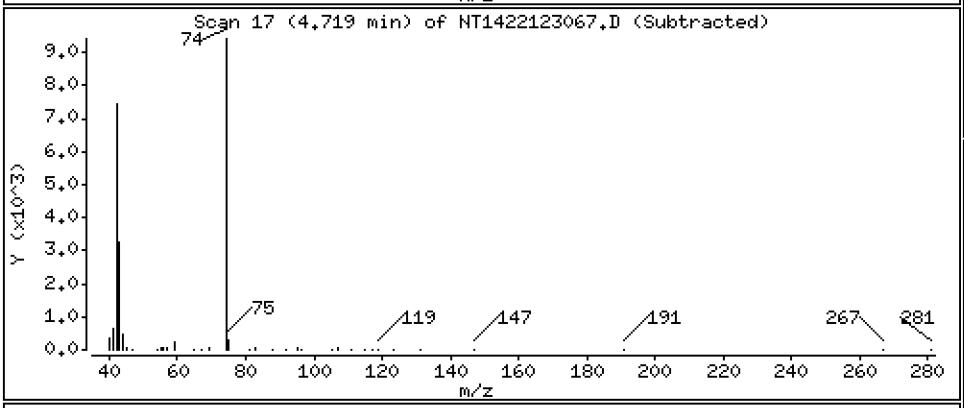
Column diameter: 0.25

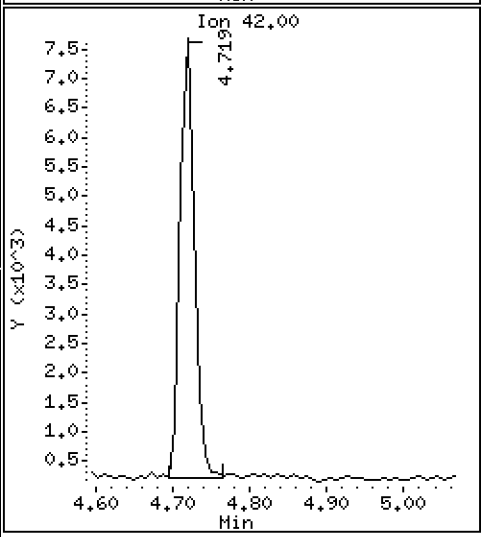
90 N-Nitrosodimethylamine

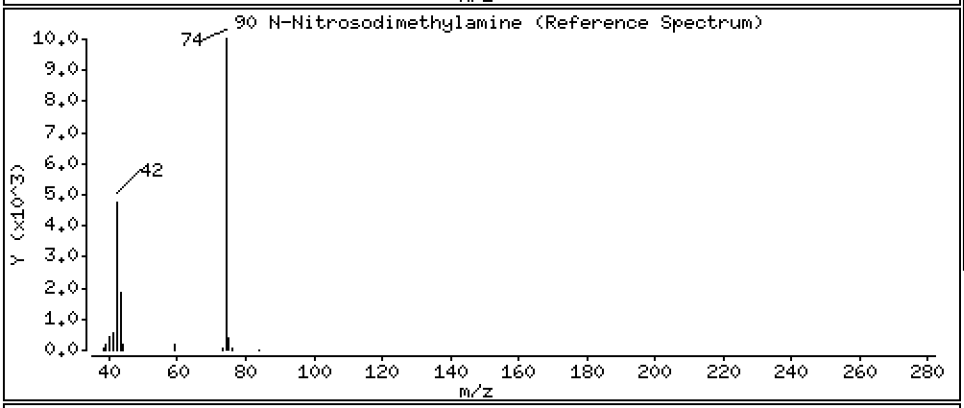
Concentration: 0.4928 ug/mL

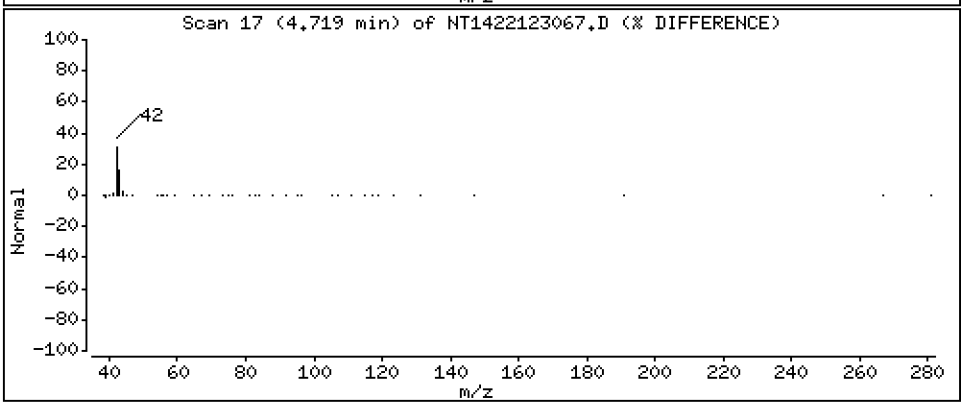












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

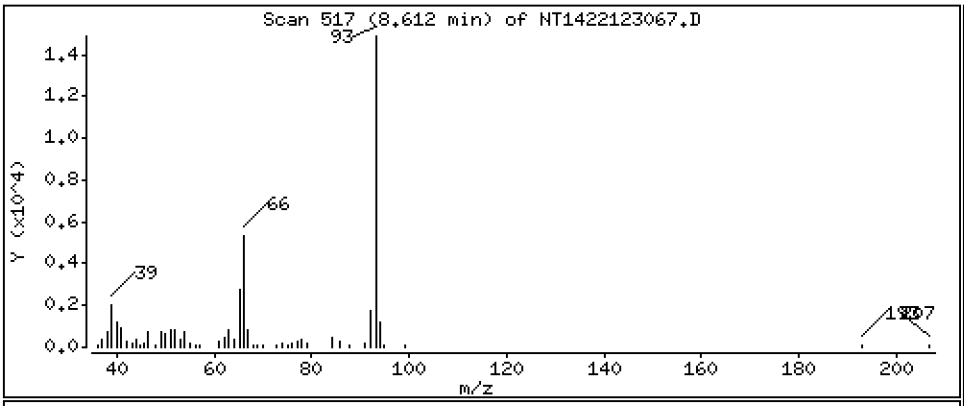
Operator: VTS

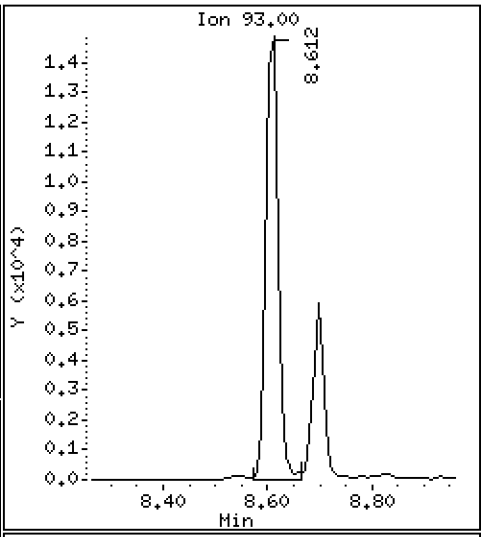
Column phase: ZB-5msi

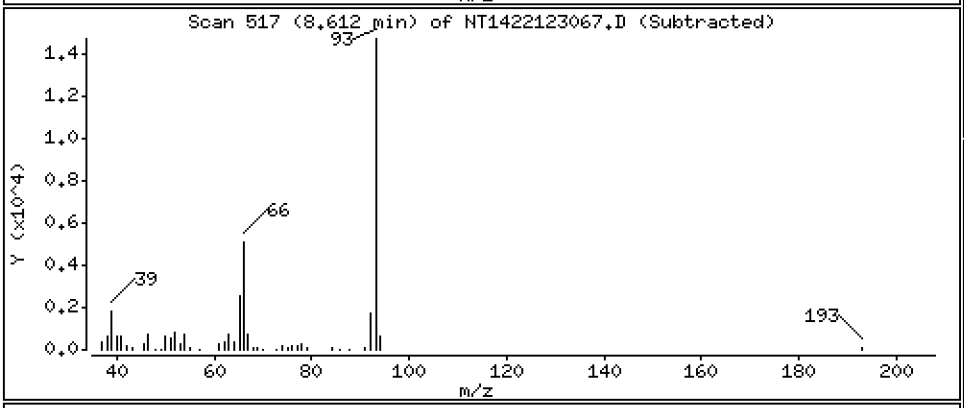
Column diameter: 0.25

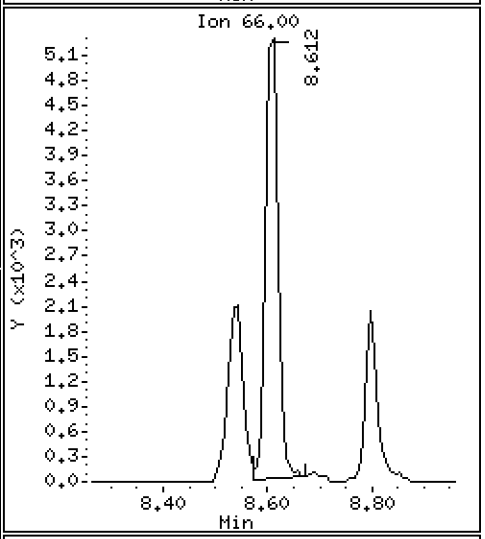
91 Aniline

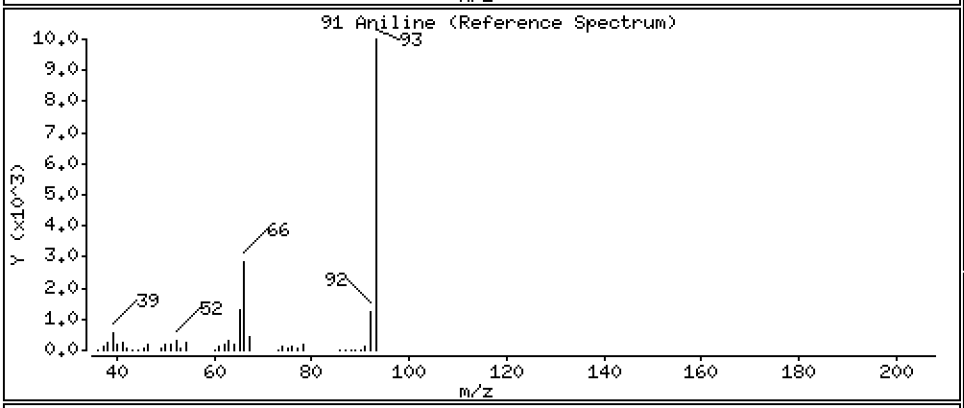
Concentration: 0.4840 ug/mL

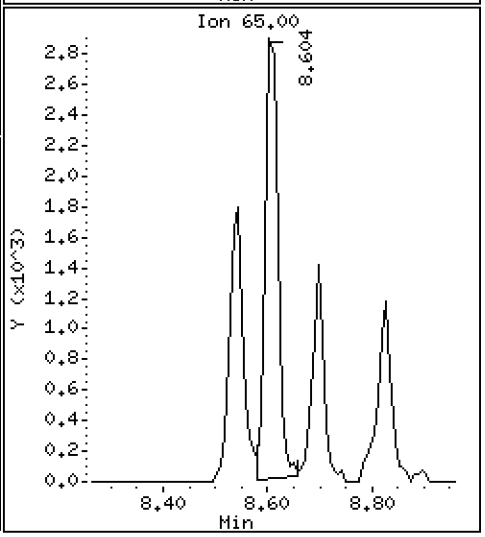


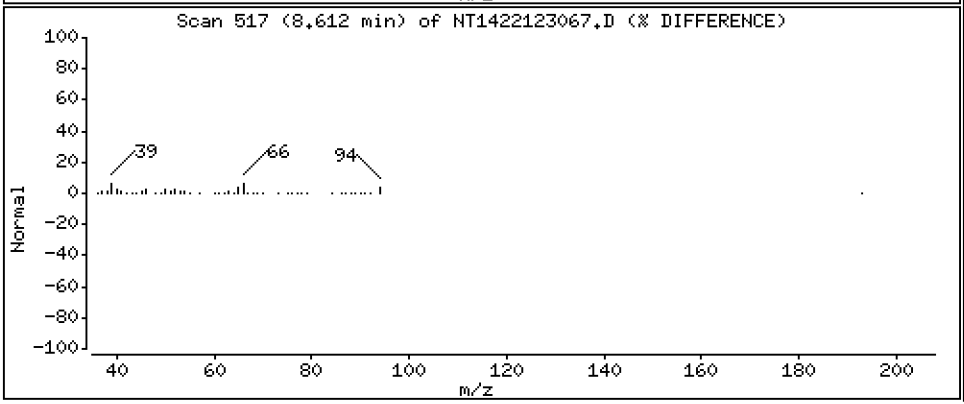












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

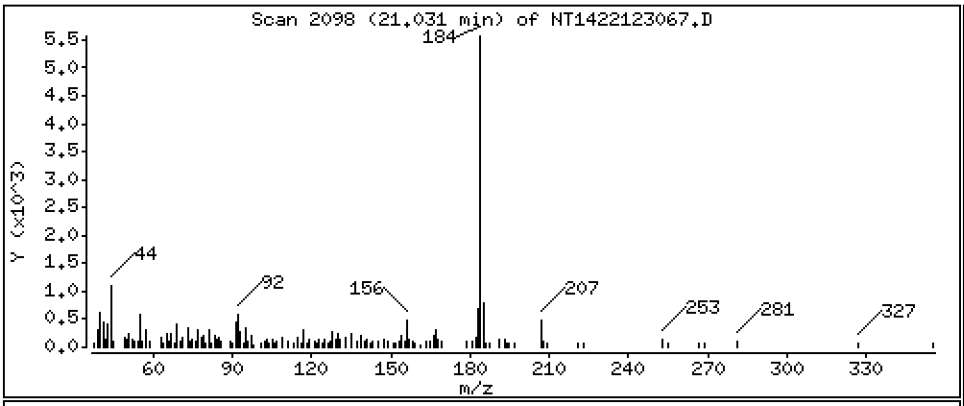
Operator: VTS

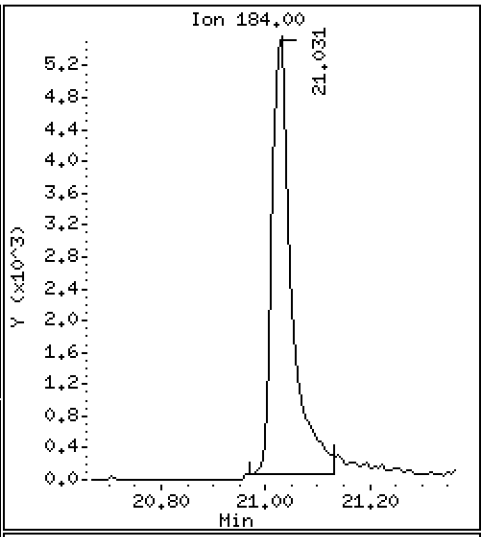
Column phase: ZB-5msi

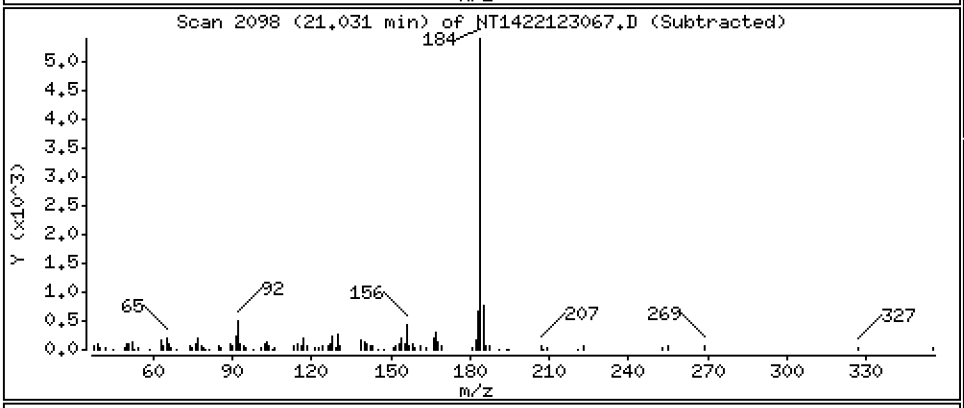
Column diameter: 0.25

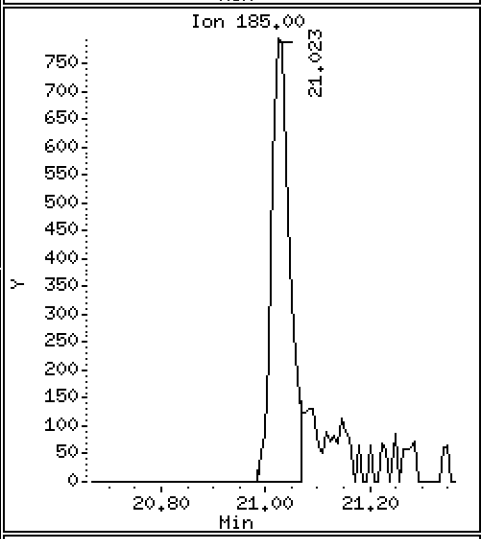
93 Benzidine

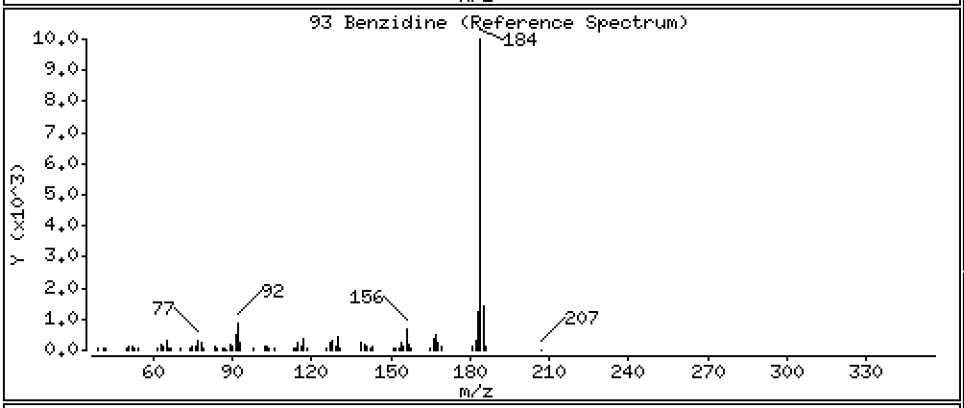
Concentration: 0.4312 ug/mL

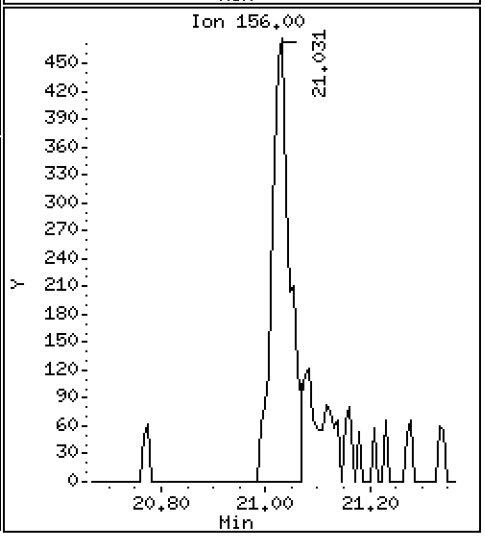


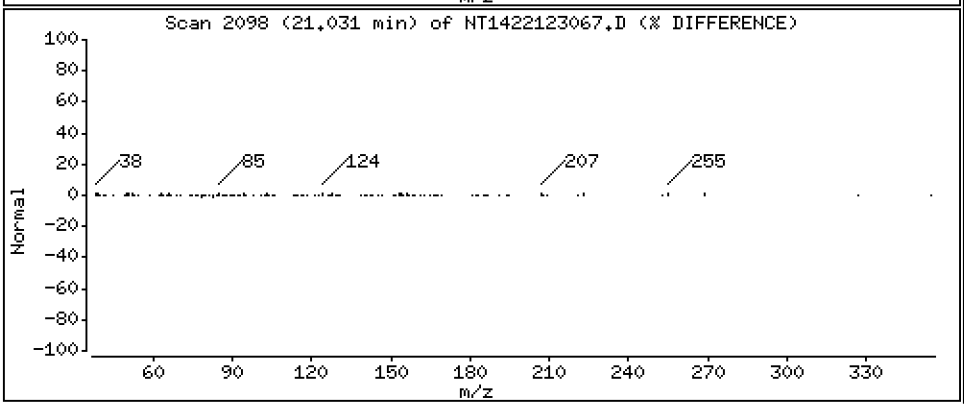












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D

Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

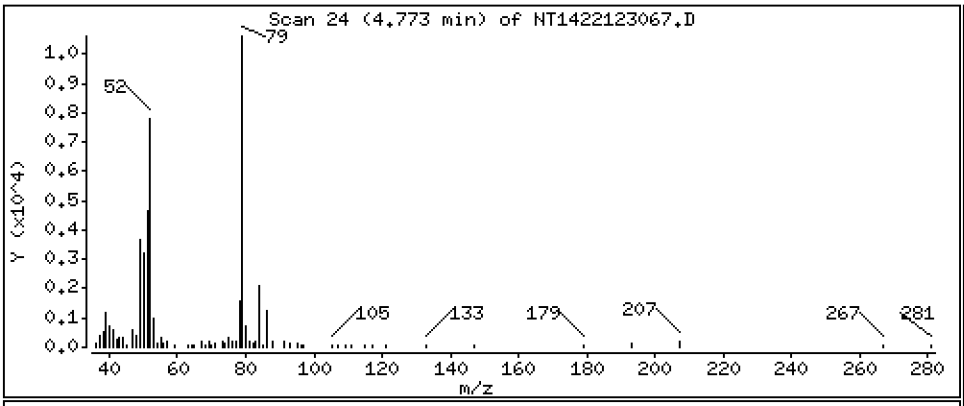
Operator: VTS

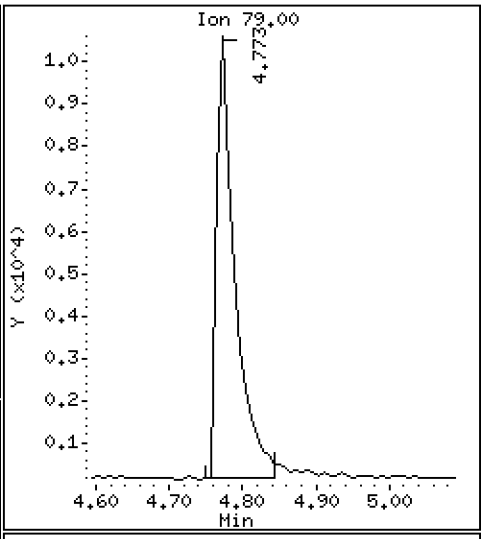
Column phase: ZB-5msi

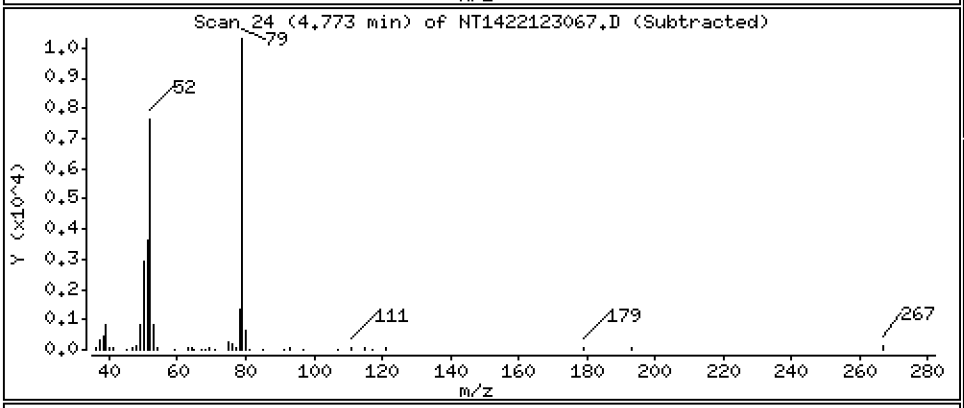
Column diameter: 0.25

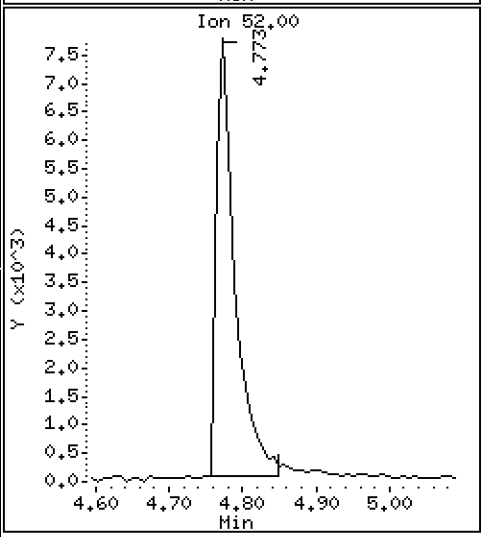
103 Pyridine

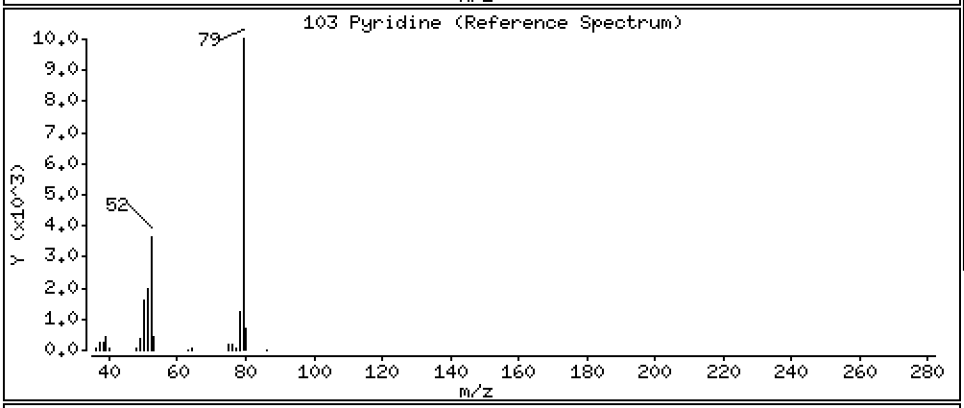
Concentration: 0.2348 ug/mL

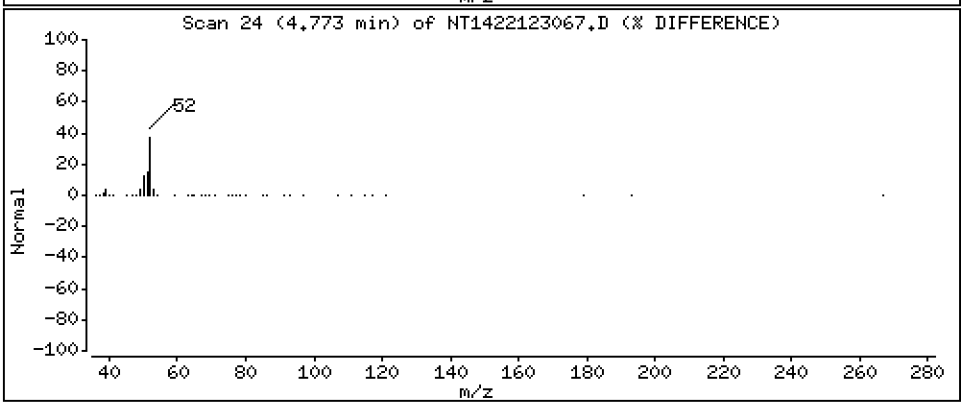












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

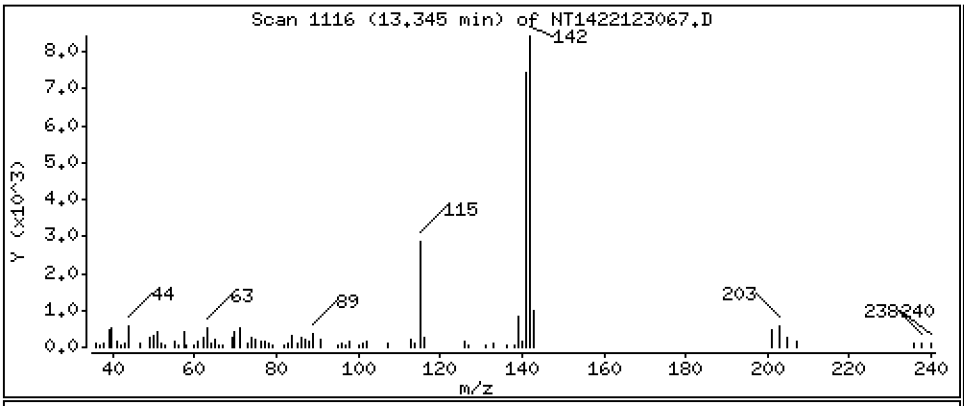
Operator: VTS

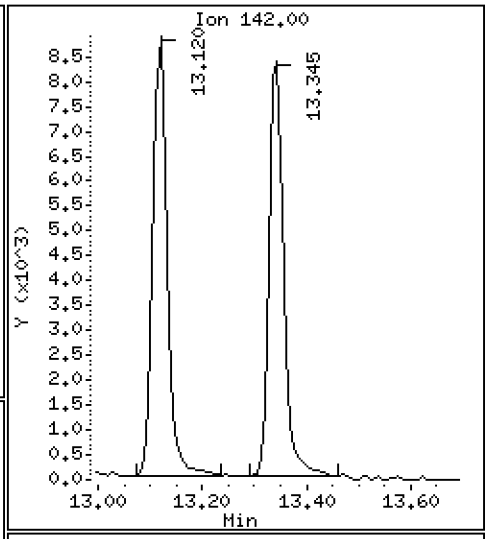
Column phase: ZB-5msi

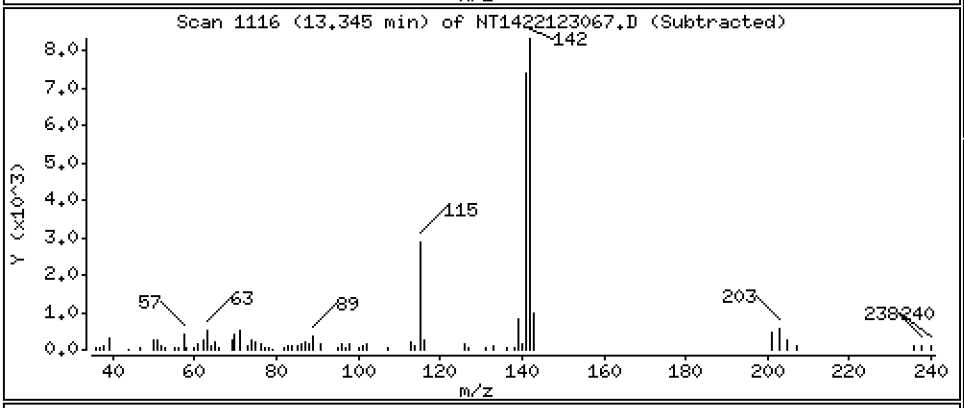
Column diameter: 0.25

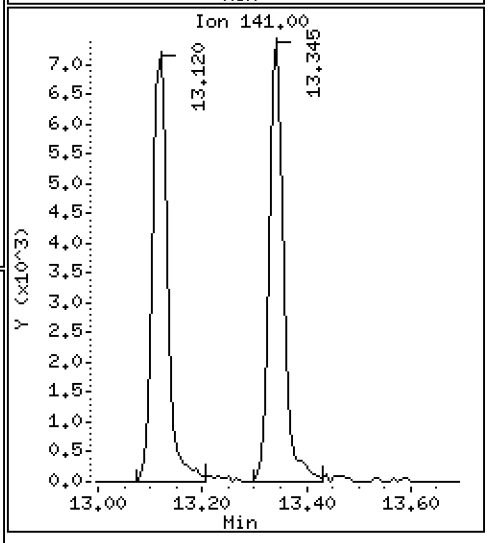
105 1-methylnaphthalene

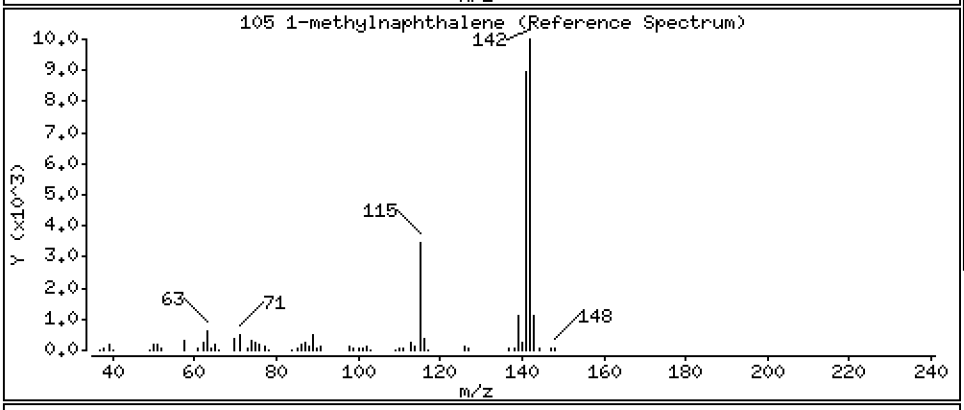
Concentration: 0.2273 ug/mL

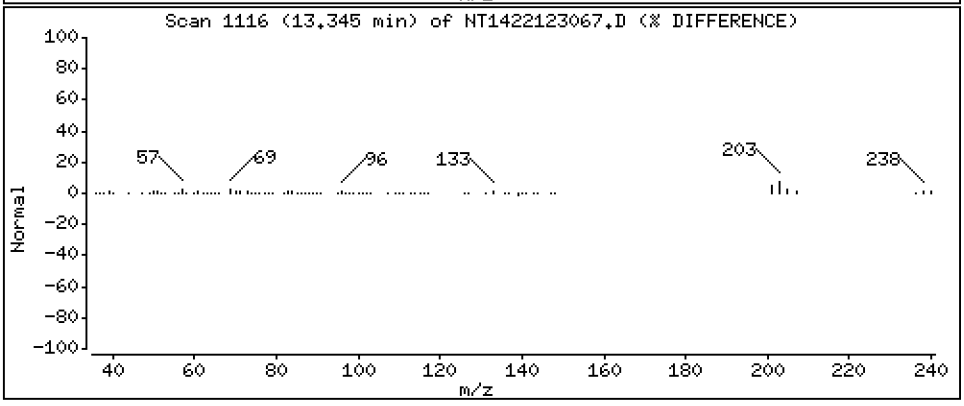












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

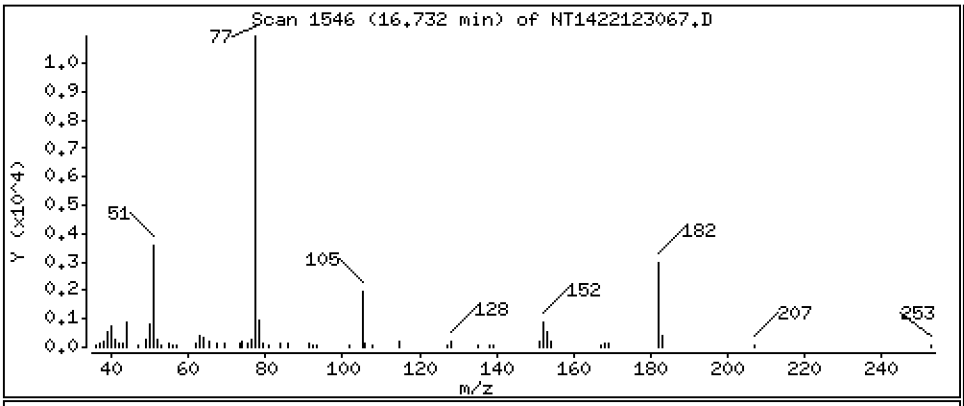
Operator: VTS

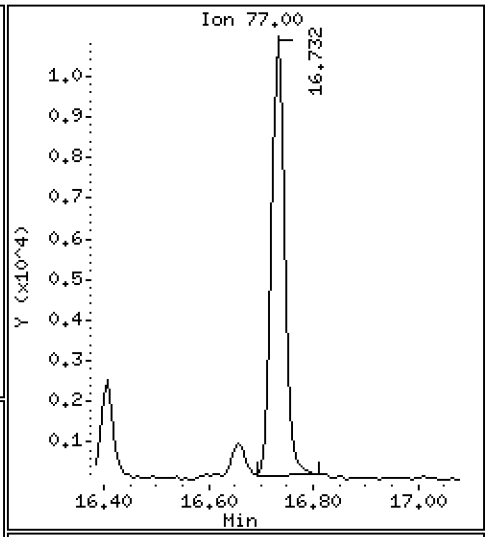
Column phase: ZB-5msi

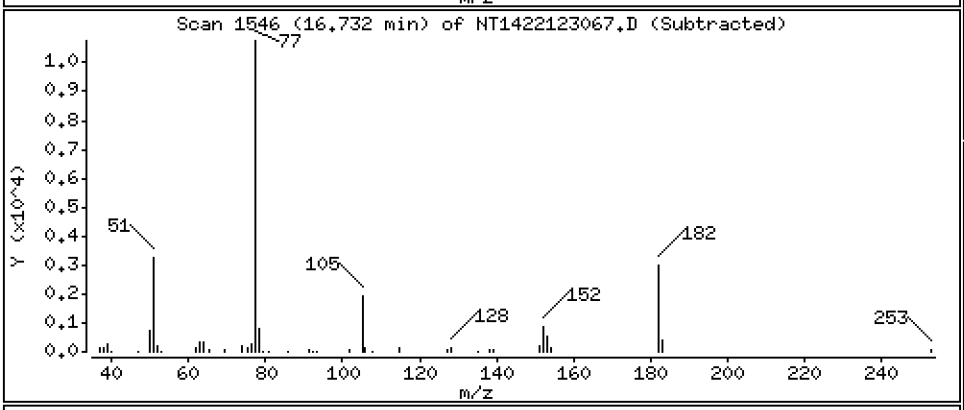
Column diameter: 0.25

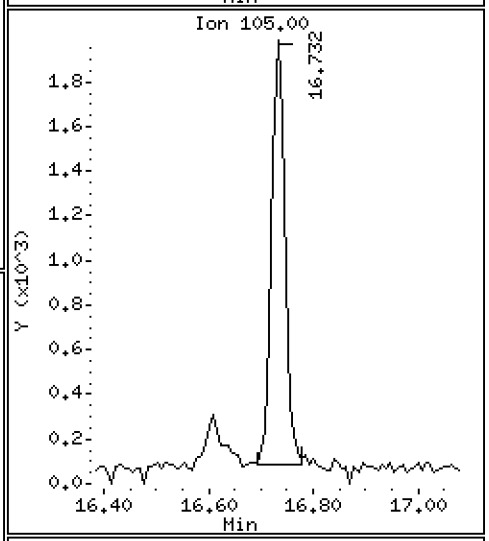
111 Azobenzene (1,2-DP-Hydrazine)

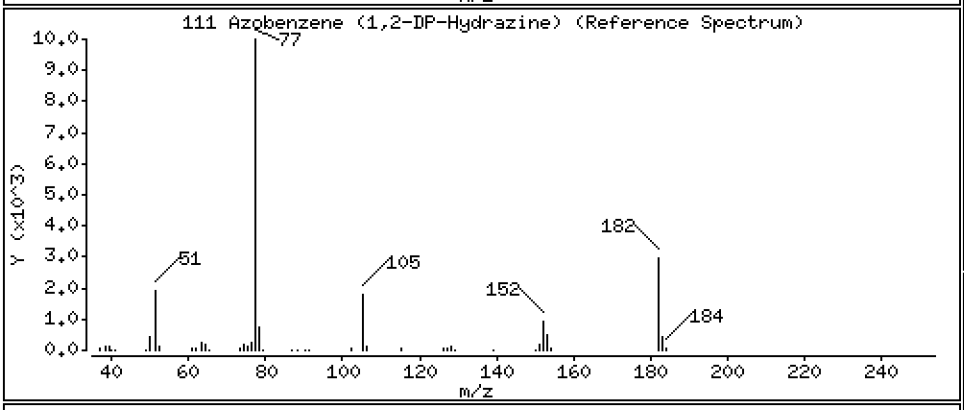
Concentration: 0.2385 ug/mL

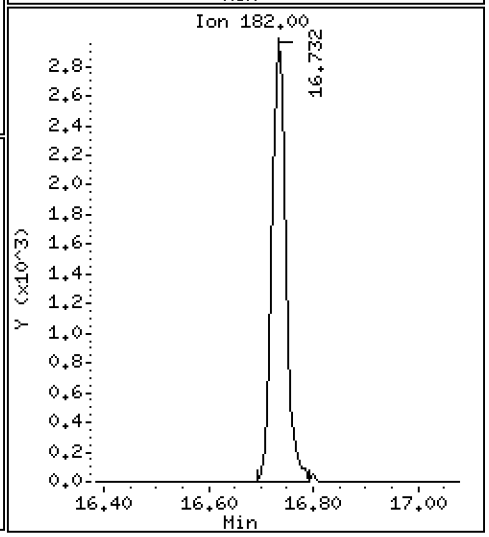


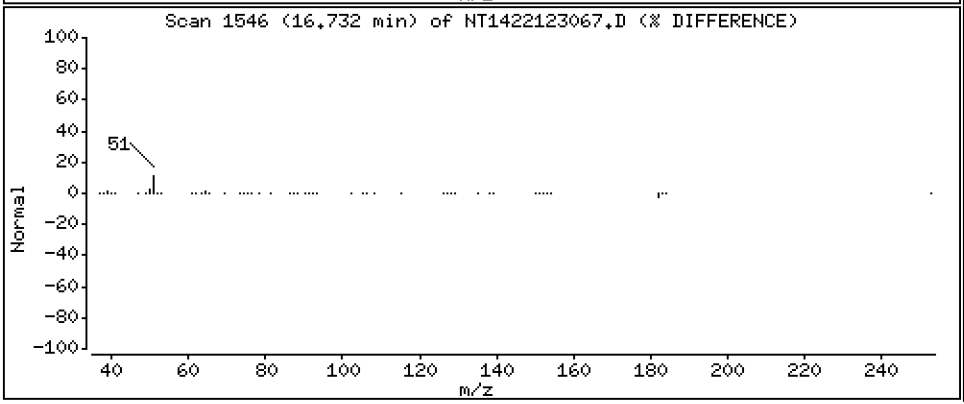












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

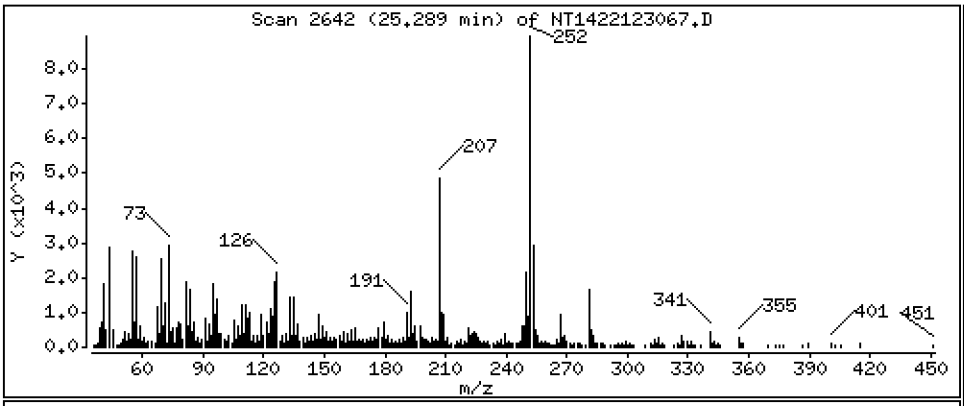
Operator: VTS

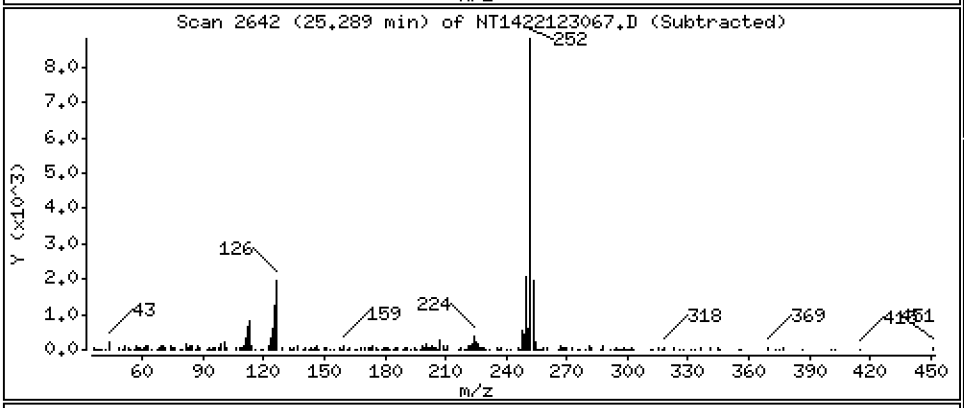
Column phase: ZB-5msi

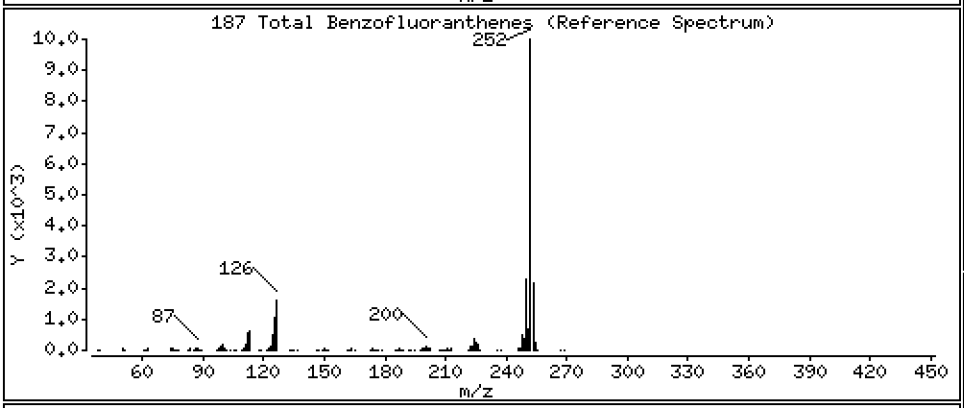
Column diameter: 0.25

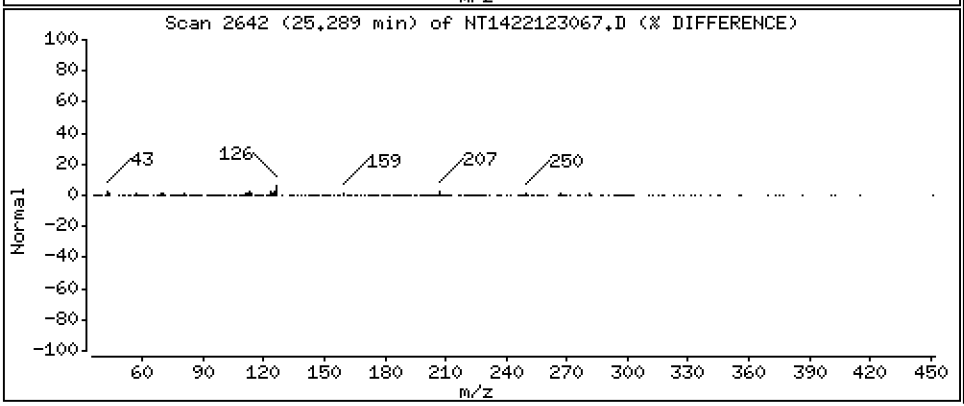
187 Total Benzofluoranthenes

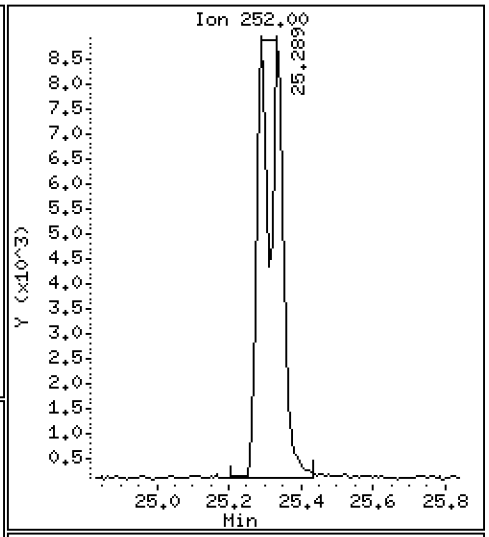
Concentration: 0.5264 ug/mL

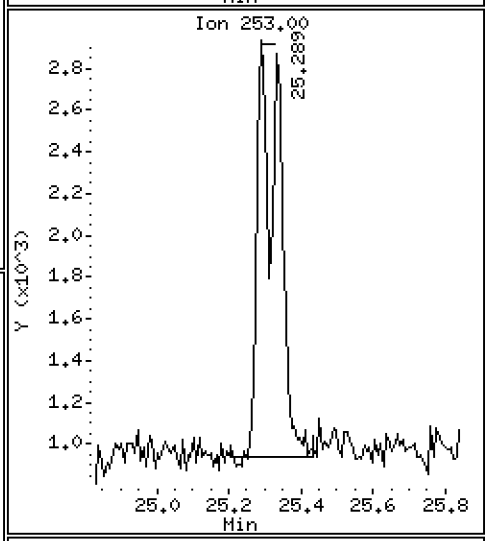


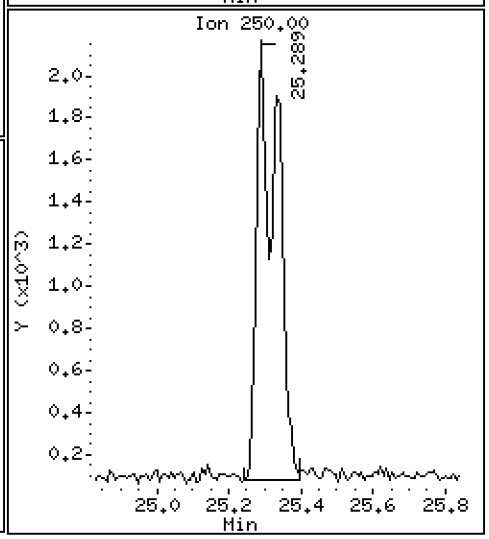












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Date : 01-JAN-2023 00:06

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV3

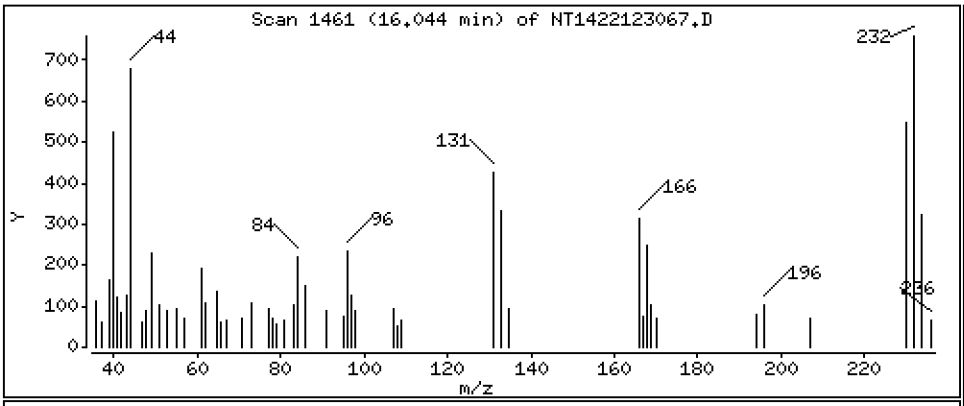
Operator: VTS

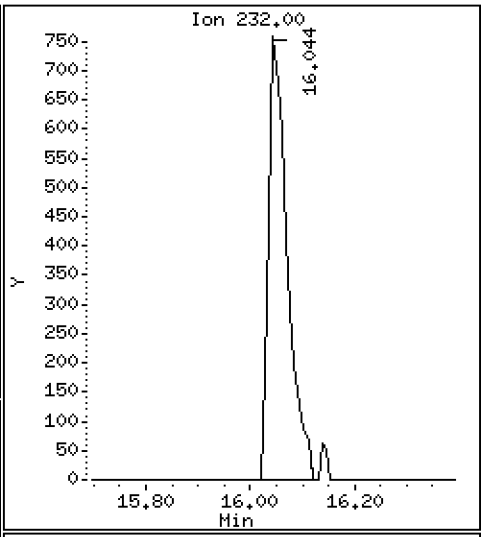
Column phase: ZB-5msi

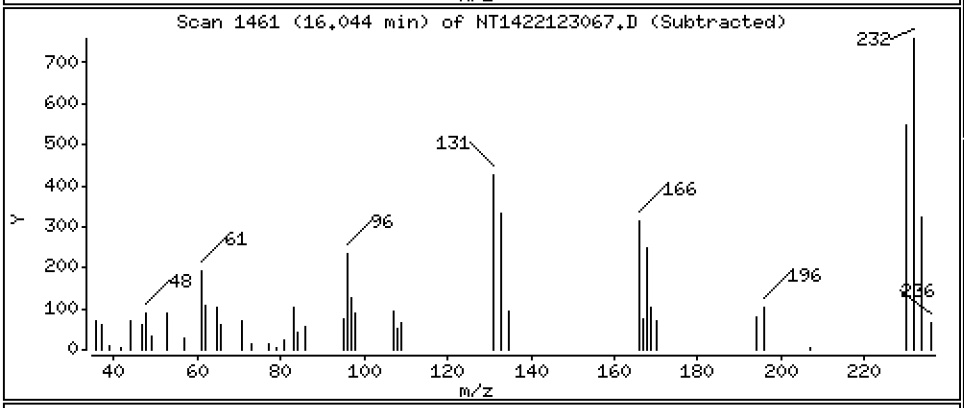
Column diameter: 0.25

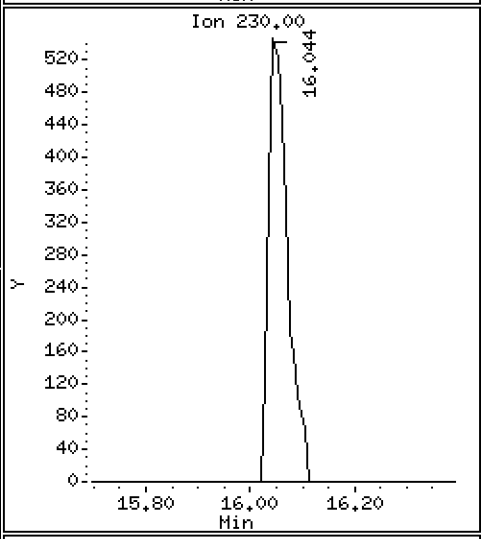
120 2,3,4,6-Tetrachlorophenol

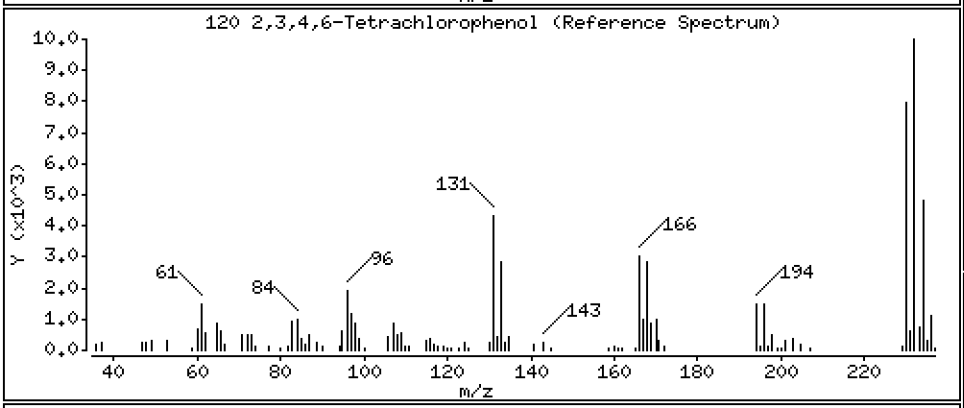
Concentration: 0.1280 ug/mL

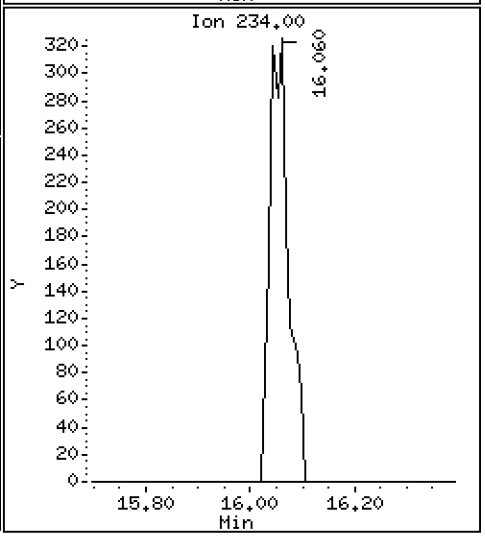


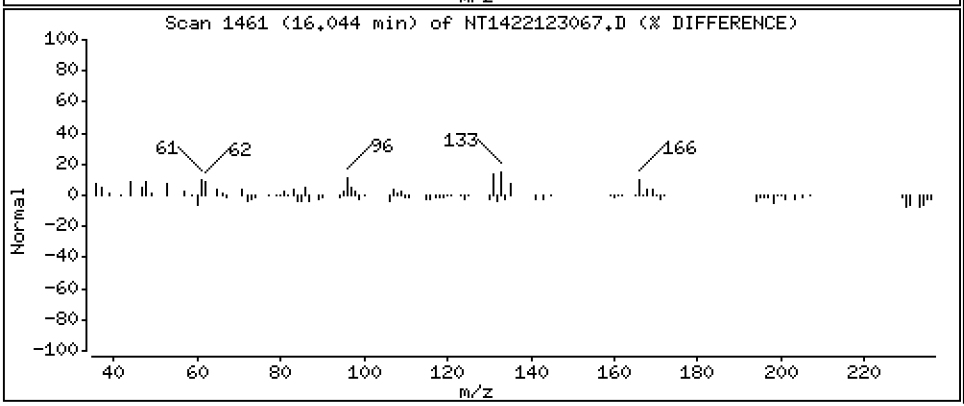












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20221230C.b\NT1422123067.D
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Inj Date : 01-JAN-2023 00:06 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV3
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 4
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	12469	0.35660	0.3566
$	2 Phenol-d5	99	8.519	8.519	(0.930)	13476	0.31186	0.3119
	3 Phenol	94	8.542	8.542	(0.932)	11161	0.22731	0.2273
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	12221	0.33675	0.3367
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	8093	0.23927	0.2393
	6 2-Chlorophenol	128	8.827	8.827	(0.964)	9811	0.24616	0.2462
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	10440	0.24702	0.2470
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	109143	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	10018	0.25020	0.2502
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	5962	0.24036	0.2404
	12 1,2-Dichlorobenzene	146	9.556	9.556	(1.043)	9504	0.24203	0.2420
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	3613	0.16529	0.1653(M)
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	2767	0.24305	0.2430
	13 2-Methylphenol	108	9.665	9.665	(1.055)	7875	0.22072	0.2207
	17 Hexachloroethane	117	10.154	10.154	(1.108)	2915	0.19795	0.1979
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	5112	0.23520	0.2352
	15 4-Methylphenol	108	9.936	9.936	(1.085)	7826	0.20792	0.2079
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	7594	0.22651	0.2265
	19 Nitrobenzene	77	10.293	10.301	(0.882)	7425	0.22300	0.2230
	20 Isophorone	82	10.743	10.751	(0.921)	8370	0.19724	0.1972
	21 2-Nitrophenol	139	10.937	10.937	(0.938)	4304	0.21163	0.2116
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	15950	0.45898	0.4590
	23 Bis(2-Chloroethoxy)methane	93	11.186	11.186	(0.959)	7789	0.23594	0.2359
	24 Benzoic acid	105	11.131	11.209	(0.954)	4437	0.20974	0.2097(M)
	25 2,4-Dichlorophenol	162	11.403	11.395	(0.977)	12011	0.41003	0.4100
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	7605	0.24010	0.2401
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	397029	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	23009	0.23549	0.2355
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	16324	0.40512	0.4051
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	3740	0.23799	0.2380
	31 4-Chloro-3-methylphenol	107	12.826	12.810	(1.099)	11960	0.43265	0.4327
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	16268	0.22698	0.2270
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.887)	624	0.04042	0.04042

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.754	13.739	(0.898)	5867	0.34421	0.3442
	35	2,4,5-Trichlorophenol	196	13.839	13.816	(0.904)	7090	0.36041	0.3604
$	36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	15298	0.22280	0.2228
	37	2-Chloronaphthalene	162	14.118	14.118	(0.922)	13703	0.23460	0.2346
	38	2-Nitroaniline	65	14.381	14.373	(0.939)	6597	0.42959	0.4296
	39	Dimethylphthalate	163	14.799	14.799	(0.967)	12311	0.21377	0.2138
	40	Acenaphthylene	152	14.993	14.993	(0.979)	20407	0.22913	0.2291
	41	2,6-Dinitrotoluene	165	14.946	14.938	(0.976)	4965	0.38201	0.3820
*	42	Acenaphthene-d10	164	15.310	15.310	(1.000)	204214	4.00000	
	43	3-Nitroaniline	138	15.240	15.225	(0.995)	5629	0.35634	0.3563
	44	Acenaphthene	153	15.372	15.371	(1.004)	13024	0.23577	0.2358
	45	2,4-Dinitrophenol	184	Compound Not Detected.					
	46	Dibenzofuran	168	15.704	15.704	(1.026)	19925	0.24053	0.2405
	47	4-Nitrophenol	109	15.665	15.557	(1.023)	2026	0.26799	0.2680(M)
	48	2,4-Dinitrotoluene	165	15.758	15.750	(1.029)	6043	0.33888	0.3389
	50	Diethylphthalate	149	16.260	16.268	(1.062)	20315	0.25952	0.2595
	49	Fluorene	166	16.423	16.423	(1.073)	20566	0.23337	0.2334
	51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	9124	0.21148	0.2115
	52	4-Nitroaniline	138	16.531	16.500	(1.080)	7107	0.37385	0.3738(M)
	53	4,6-Dinitro-2-methylphenol	198	16.608	16.600	(0.905)	1281	0.09261	0.09261
	54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	14191	0.25087	0.2509
$	55	2,4,6-Tribromophenol	330	16.955	16.955	(1.107)	2149	0.22461	0.2246
	56	4-Bromophenyl-phenylether	248	17.417	17.410	(0.949)	4781	0.22320	0.2232
	57	Hexachlorobenzene	284	17.734	17.734	(0.966)	5567	0.23683	0.2368
	58	Pentachlorophenol	266	18.106	18.090	(0.986)	206	0.02024	0.02024(M)
*	59	Phenanthrene-d10	188	18.361	18.361	(1.000)	329657	4.00000	
	60	Phenanthrene	178	18.408	18.408	(1.003)	20593	0.23959	0.2396
	61	Anthracene	178	18.500	18.500	(1.008)	19055	0.23223	0.2322
	62	Carbazole	167	18.841	18.825	(1.026)	18308	0.23080	0.2308
	63	Di-n-butylphthalate	149	19.615	19.614	(1.068)	20354	0.22726	0.2273
	64	Fluoranthene	202	20.791	20.791	(0.889)	20667	0.23809	0.2381
	65	Pyrene	202	21.216	21.216	(0.907)	21300	0.23339	0.2334
$	66	Terphenyl-d14	244	21.495	21.495	(0.919)	14382	0.22224	0.2222
	67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	9292	0.26989	0.2699
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	21552	0.26391	0.2639
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	269585	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	20482	0.81929	0.8193
	71	Chrysene	228	23.446	23.446	(1.002)	18735	0.24287	0.2429
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	13030	0.26109	0.2611
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	449369	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	26527	0.24592	0.2459
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	17280	0.24137	0.2414
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	20473	0.28097	0.2810
	76	Benzo(a)pyrene	252	25.970	25.970	(0.996)	15021	0.25240	0.2524
*	77	Perylene-d12	264	26.086	26.086	(1.000)	227797	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.861	28.838	(1.106)	10107	0.14940	0.1494
	79	Dibenzo(a,h)anthracene	278	28.877	28.853	(1.107)	8673	0.15086	0.1509
	80	Benzo(g,h,i)perylene	276	29.677	29.653	(1.138)	5996	0.10580	0.1058
	90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	11868	0.49283	0.4928
	91	Aniline	93	8.611	8.611	(0.940)	23141	0.48403	0.4840
	93	Benzidine	184	21.030	21.015	(0.899)	14240	0.43116	0.4312
	103	Pyridine	79	4.772	4.741	(0.521)	17969	0.23482	0.2348
	105	1-methylnaphthalene	142	13.344	13.344	(1.144)	15653	0.22730	0.2273
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	18088	0.23851	0.2385

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	36432	0.52638	0.5264
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	1840	0.12799	0.1280

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123067.D
Lab Smp Id: SKL0355-LCV3
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	109143	-21.34
27 Naphthalene-d8	501723	250862	1003446	397029	-20.87
42 Acenaphthene-d10	275234	137617	550468	204214	-25.80
59 Phenanthrene-d10	440085	220043	880170	329657	-25.09
69 Chrysene-d12	384795	192398	769590	269585	-29.94
134 Di-n-octylphthala	674530	337265	1349060	449369	-33.38
77 Perylene-d12	336665	168333	673330	227797	-32.34

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.31	0.00
59 Phenanthrene-d10	18.36	17.86	18.86	18.36	0.00
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123067.D

Lab ID: SKL0355-LCV3
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:06

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.954	0.960	-0.0060	Benzoic acid
1.023	1.016	0.0071	4-Nitrophenol

RRT check based on Ccal File: NT1422123066.D

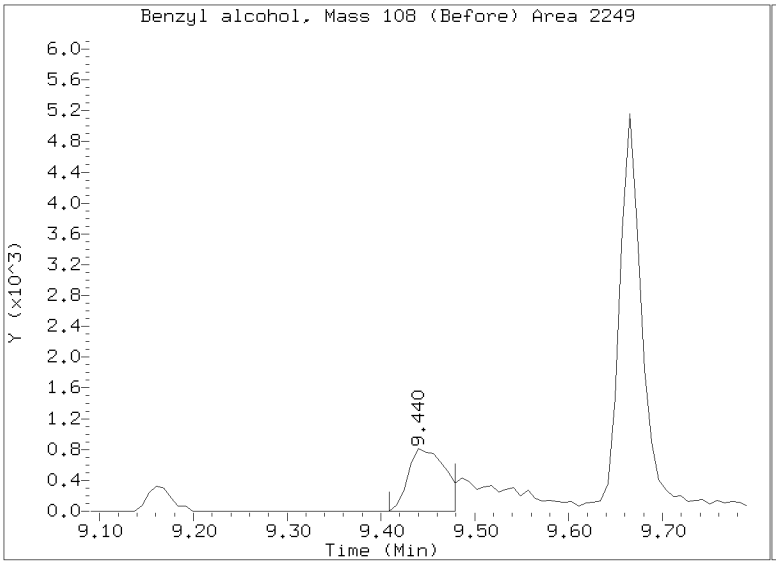
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

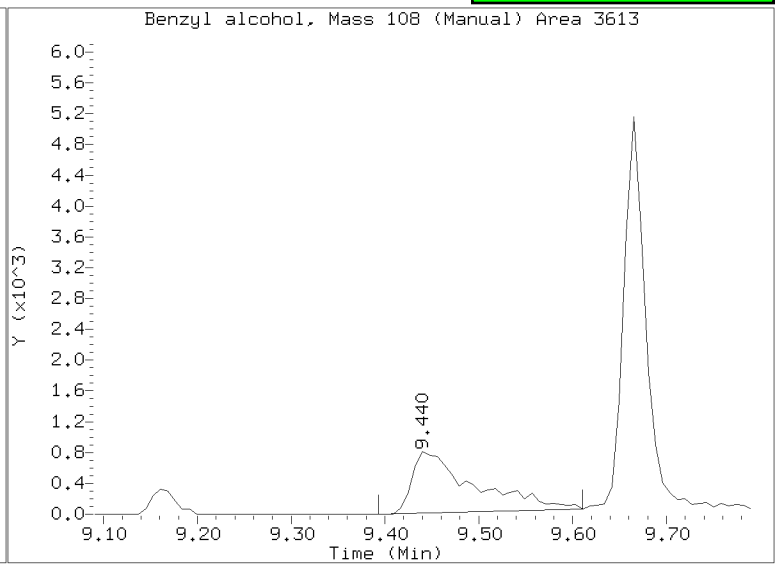
* Only compounds listed in the work order have been verified by the analyst *

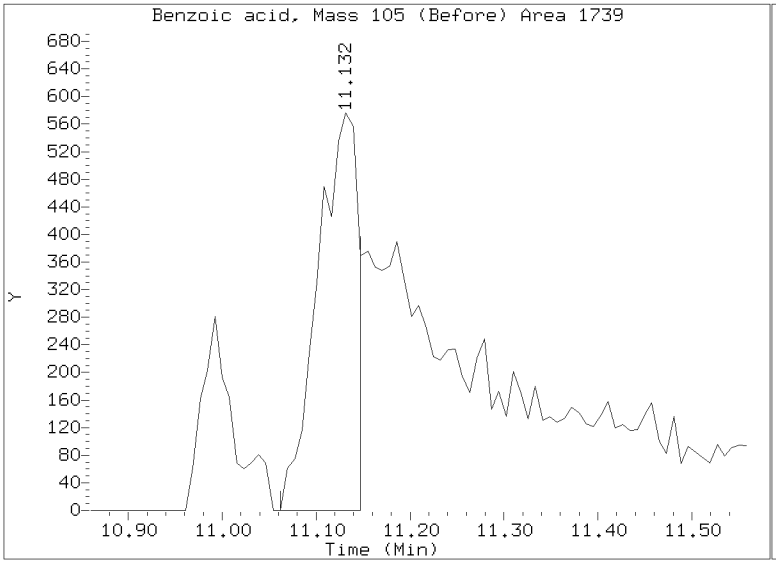
Quant Ion Manual Peak Adjustment Report

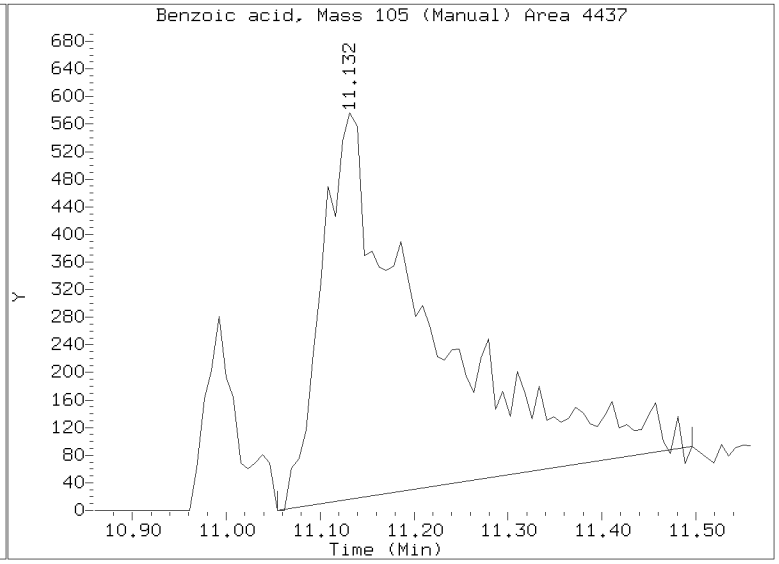
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123067.D
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

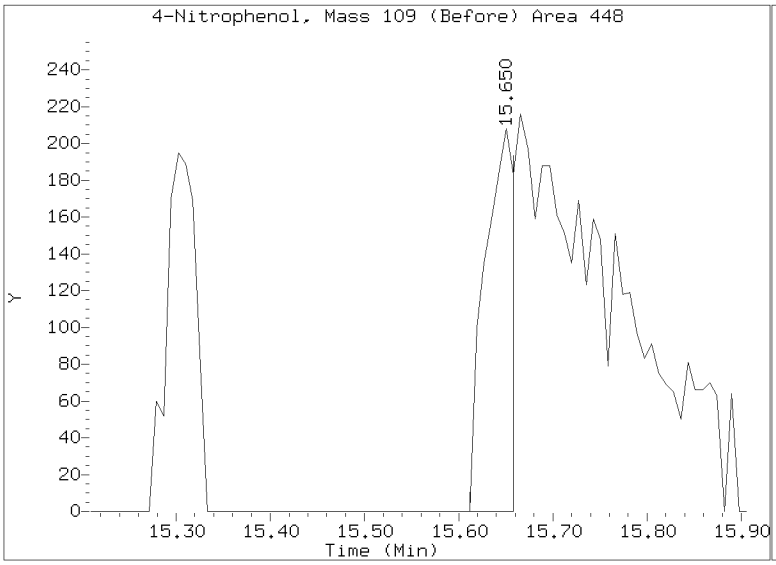
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

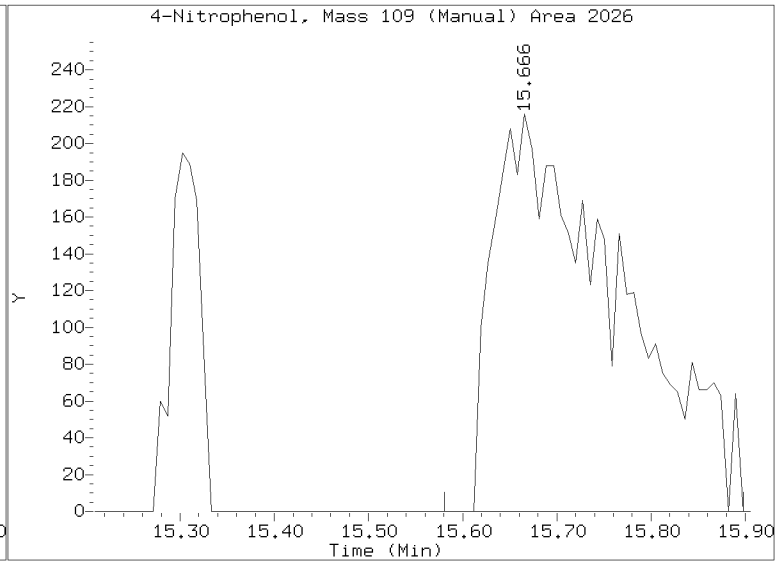












Quant Ion Manual Peak Adjustment Report

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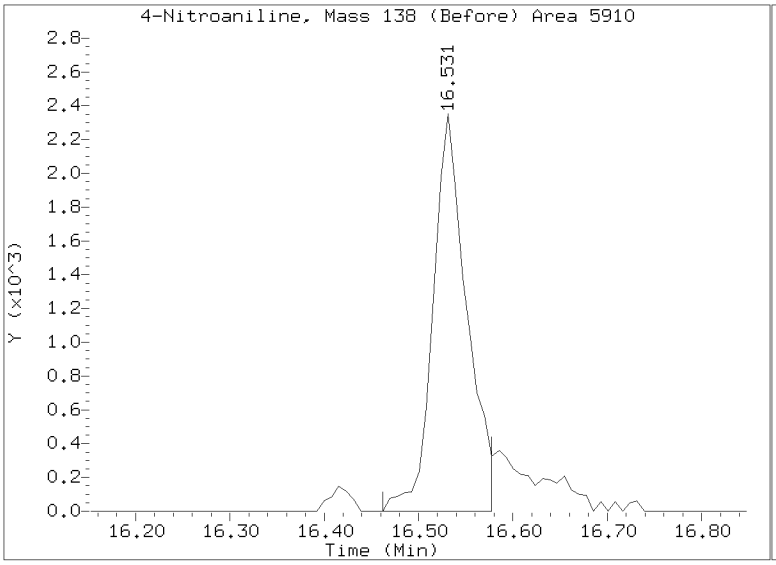
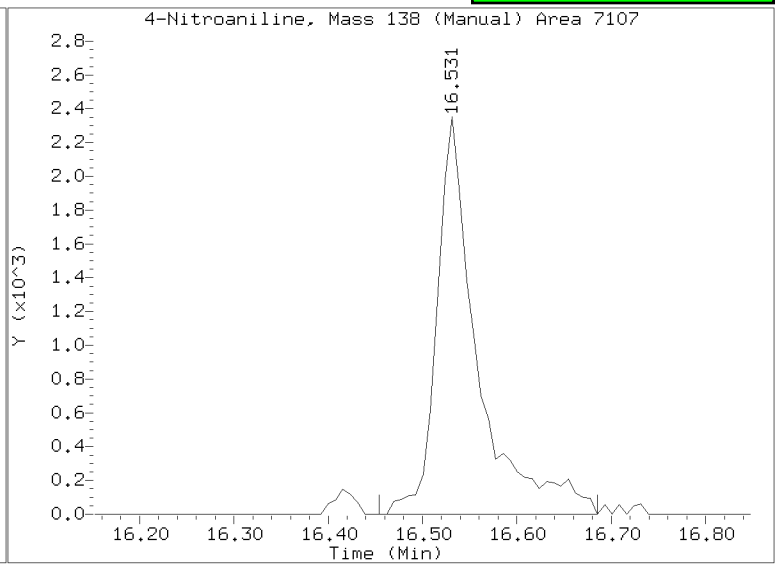
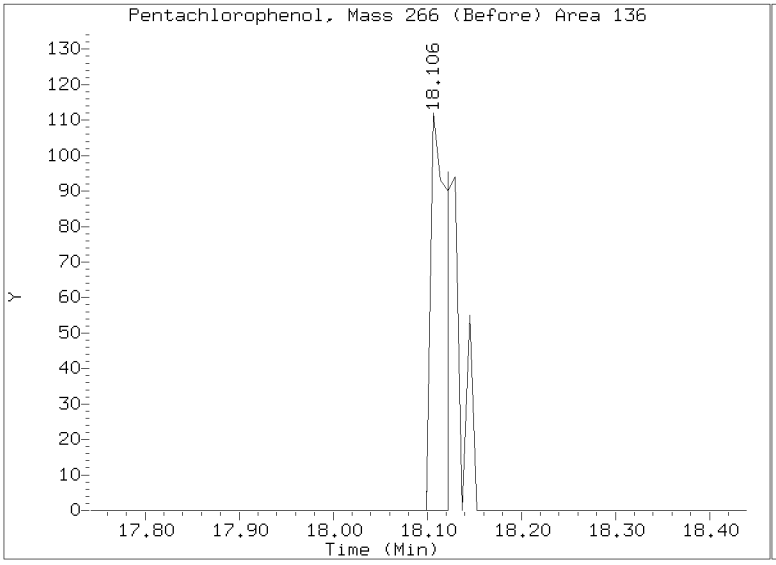
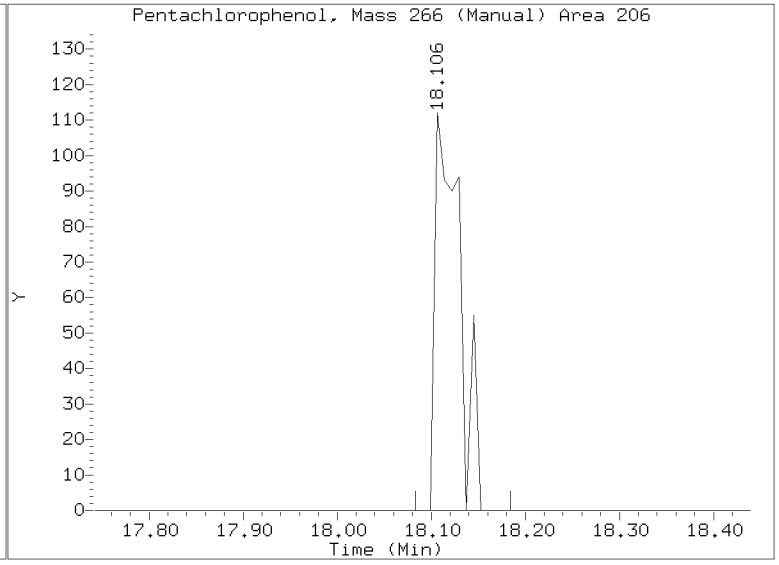
Injection Date: 01-JAN-2023 00:06
Lab ID:SKL0355-LCV3 Client ID:
Report Date: 01/04/2023 14:23

REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM









Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.5	1.7995200	1.7483010		-2.8	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.1939320		-3.7	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.5084730		3.3	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.5429450		-0.4	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.4875080		1.4	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.4279910		-0.8	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6198655		-22.6	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3945302		-5.4	+/-50
2-Methylphenol	A	0.50000	0.5	1.3076140	1.2737810		-2.6	+/-50
Hexachloroethane	A	0.50000	0.4	0.5396966	0.4453238		-17.5	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.8084773		1.5	+/-50
4-Methylphenol	A	0.50000	0.5	1.3794240	1.2838410		-6.9	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3148268		-6.2	+/-50
Isophorone	A	0.50000	0.5	0.4275424	0.3868443		-9.5	+/-50
2-Nitrophenol	A	0.50000	0.5	0.2064997	0.1943328		-5.4	+/-50
2,4-Dimethylphenol	A	1.0000	1.0	0.3501131	0.3420102		-2.3	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3291838		-1.0	+/-50
2,4-Dichlorophenol	A	1.0000	1.0	0.2951237	0.2833035		-4.0	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3120949		-2.2	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9556600		-2.9	+/-50
Benzoic acid	A	2.0000	0.4	0.1508906	0.0477355		-77.6	+/-50
4-Chloroaniline	A	1.0000	0.9	0.4059568	0.3606975		-11.1	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1512812		-4.5	+/-50
4-Chloro-3-Methylphenol	A	1.0000	0.9	0.2785027	0.2644514		-5.0	+/-50
2-Methylnaphthalene	A	0.50000	0.5	0.7220739	0.6723759		-6.9	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0415226		-86.3	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.9	0.3338641	0.2917426		-12.6	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.8	0.3853234	0.3090024		-19.8	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.1004810		-3.8	+/-50
2-Nitroaniline	A	1.0000	1.0	0.3007956	0.2969377		-1.3	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.7372870		-0.4	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.1181020		-0.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2545771	0.2221514		-12.7	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0722410		-0.9	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2625893		-15.1	+/-50
2,4-Dinitrophenol	A	2.0000	0.01	0.1831718	0.0013321		-99.4	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.5992840		-1.4	+/-50
4-Nitrophenol	A	1.0000	0.7	0.1384031	0.0995818		-32.8	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2717615		-22.2	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.6845370		-2.4	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.5	0.8450792	0.8658081		2.5	+/-50
Diethyl phthalate	A	0.50000	0.6	1.5332690	1.7536520		14.4	+/-50
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.3098778		-16.9	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.4	0.1530278	0.0321223		-80.9	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.7021852		2.3	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.5	0.2599074	0.2459767		-5.4	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2779293		-2.6	+/-50
Pentachlorophenol	A	1.0000	0.1	0.1128364	0.0128045		-89.6	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	1.0078070		-3.4	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9654373		-3.0	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.9011810		-6.4	+/-50
Di-n-Butylphthalate	A	0.50000	0.5	1.0394700	1.0429660		-4.2	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.2156890		-5.6	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.3030620		-3.8	+/-50
Butylbenzylphthalate	A	0.50000	0.5	0.4650792	0.5379980		5.2	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.2615680		4.1	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.6	0.3709370	0.4058052		9.4	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.1447600		0.02	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4563126		2.7	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9409763		-2.0	+/-50
Benzofluoranthenes, Total	A	1.0000	1.1	1.2153330	1.3693140		12.7	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.1069130		5.9	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.3	1.1879490	0.6834033		-42.5	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.3	1.0094890	0.5956232		-41.0	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.2	0.9951726	0.4792214		-51.8	+/-50
1-Methylnaphthalene	A	0.50000	0.5	0.6937882	0.6579608		-5.2	+/-50
2-Fluorophenol	A	0.75000	0.732	1.2814900	1.2512690		-2.4	+/-50
Phenol-d5	A	0.75000	0.661	1.5836890	1.3948320		-11.9	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

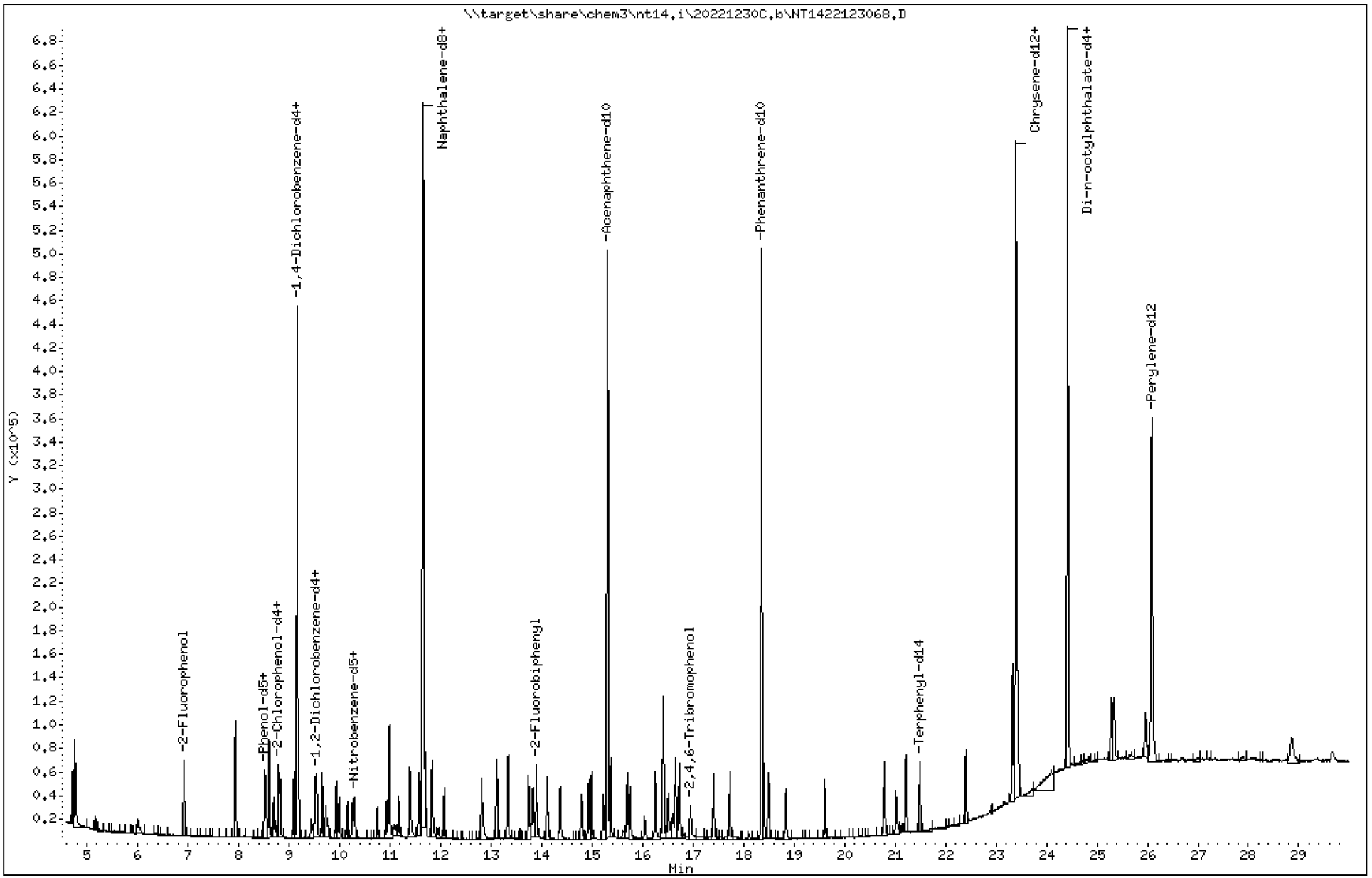
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1422123068.D	Calibration Date:	12/30/2022
Sequence:	SKL0355	Injection Date:	01/01/23
Lab Sample ID:	SKL0355-LCV4	Injection Time:	00:42
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.698	1.3300510	1.2370580		-7.0	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.480	0.9090592	0.8729895		-4.0	+/-50
Nitrobenzene-d5	A	0.50000	0.483	0.3377760	0.3263357		-3.4	+/-50
2-Fluorobiphenyl	A	0.50000	0.472	1.3448860	1.2695780		-5.6	+/-50
2,4,6-Tribromophenol	A	0.75000	0.538	0.1844845	0.1345265		-28.3	+/-50
p-Terphenyl-d14	A	0.50000	0.451	0.9601842	0.8667715		-9.7	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D
Date : 01-JAN-2023 00:42
Client ID:
Sample Info: SKL0355-LCV4

Instrument: nt14.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

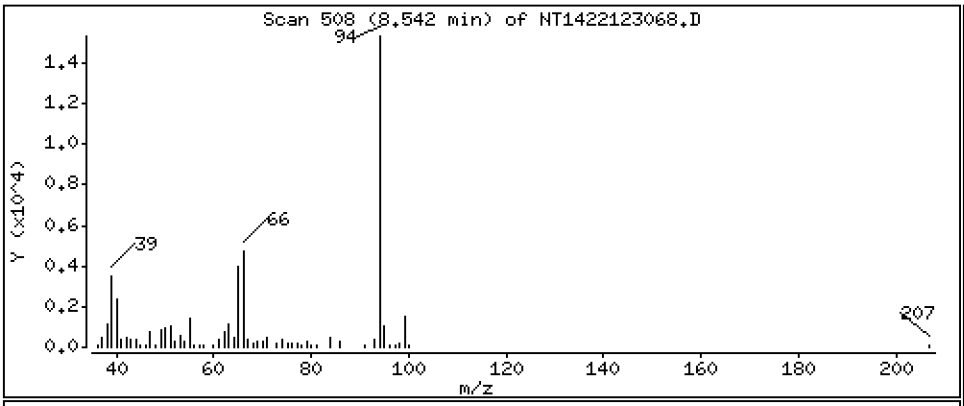
Operator: VTS

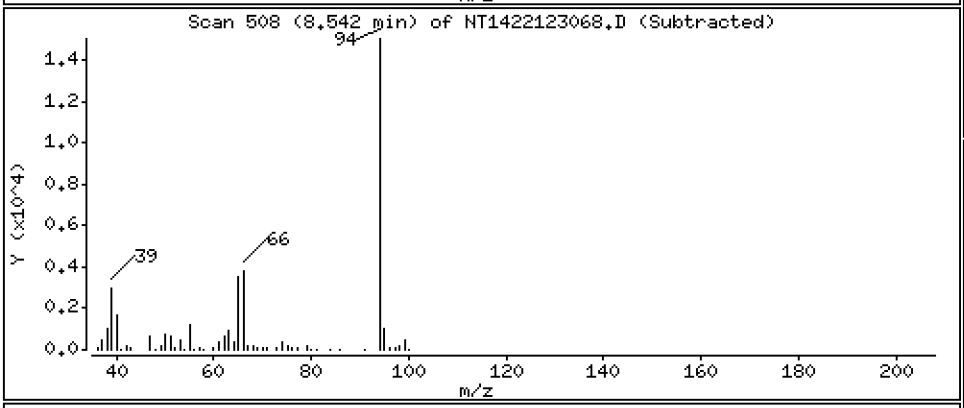
Column phase: ZB-5msi

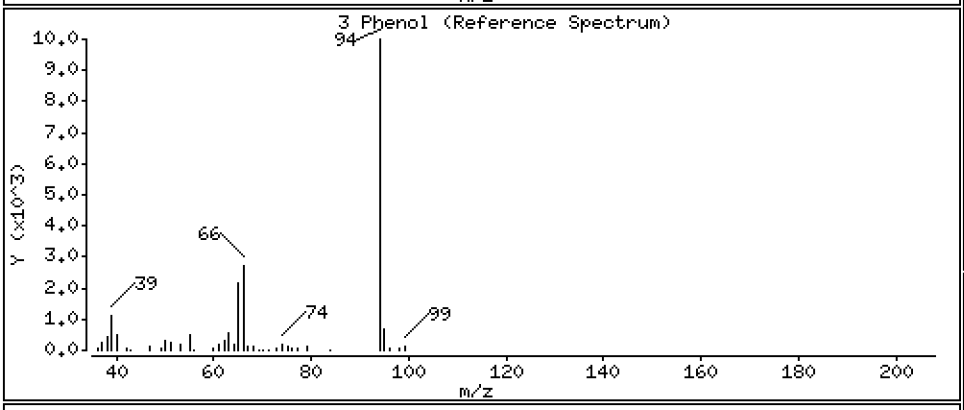
Column diameter: 0.25

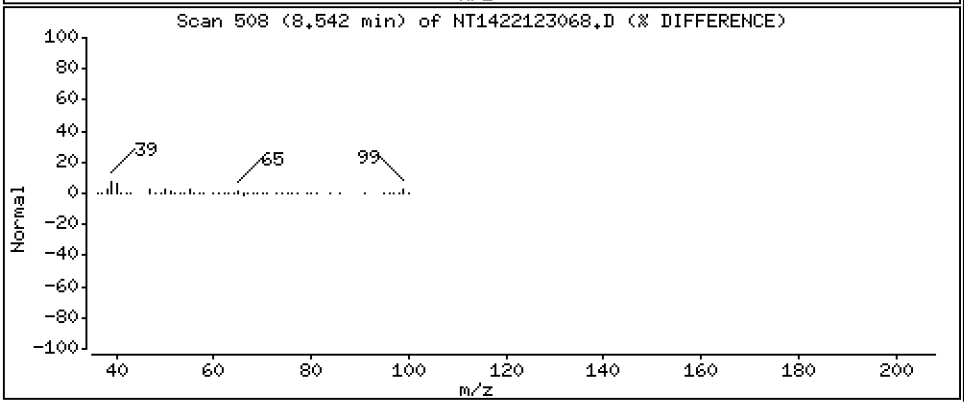
3 Phenol

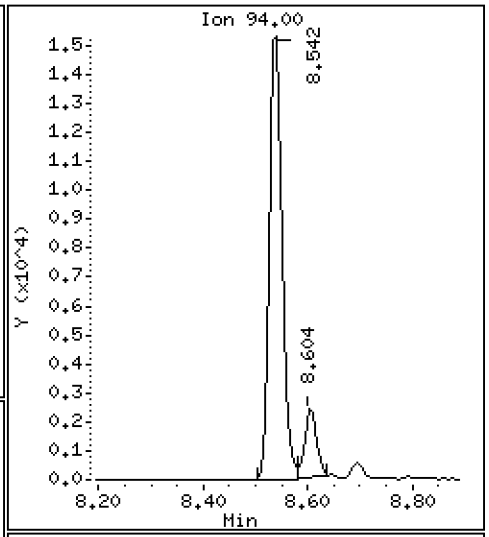
Concentration: 0.4858 ug/mL

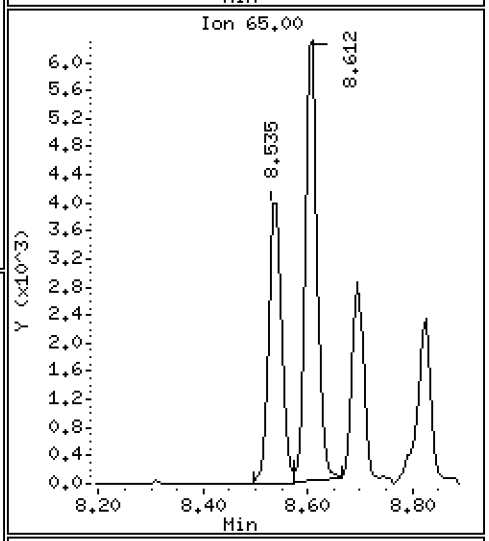


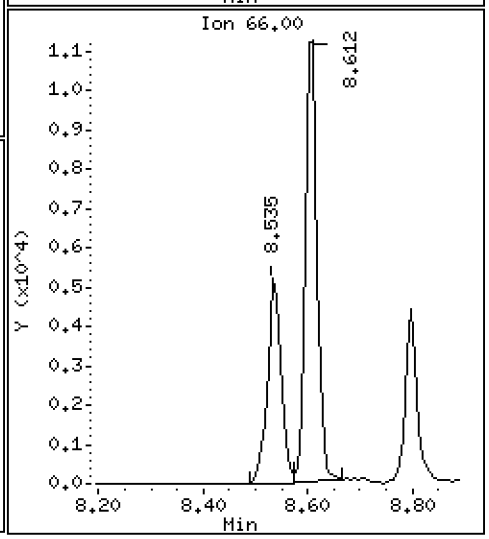












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

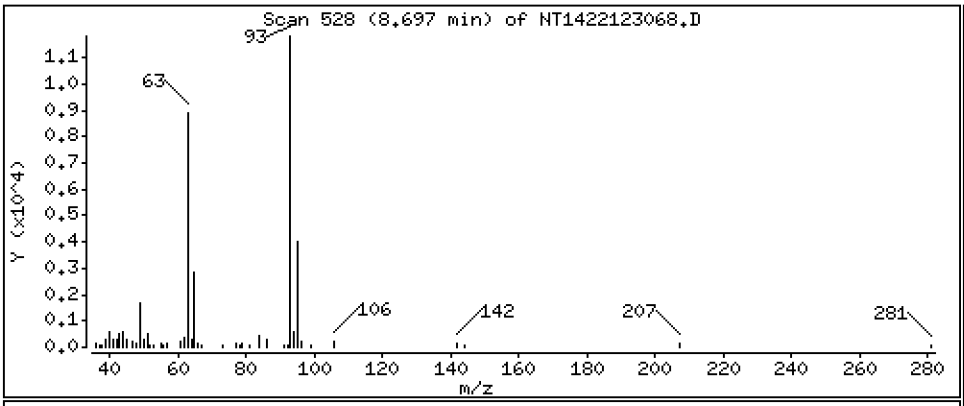
Operator: VTS

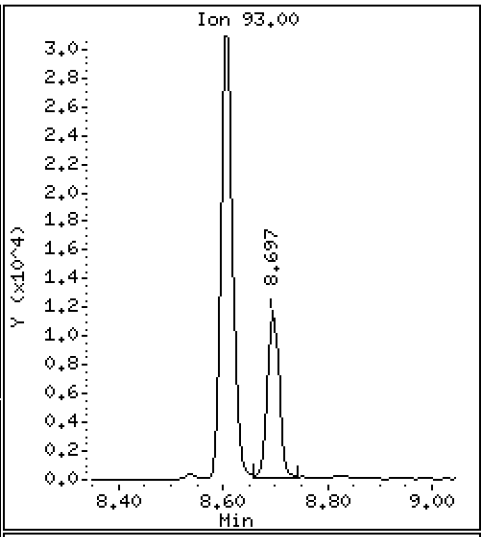
Column phase: ZB-5msi

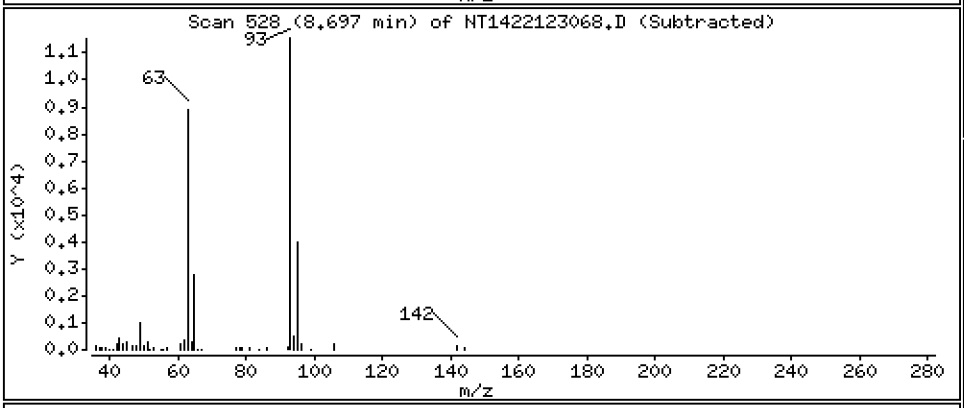
Column diameter: 0.25

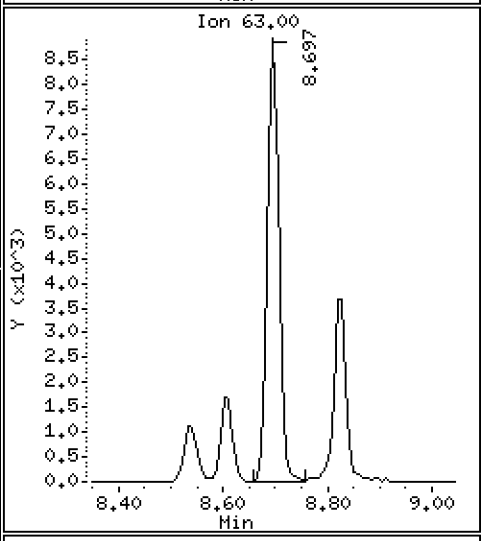
4 Bis(2-Chloroethyl)ether

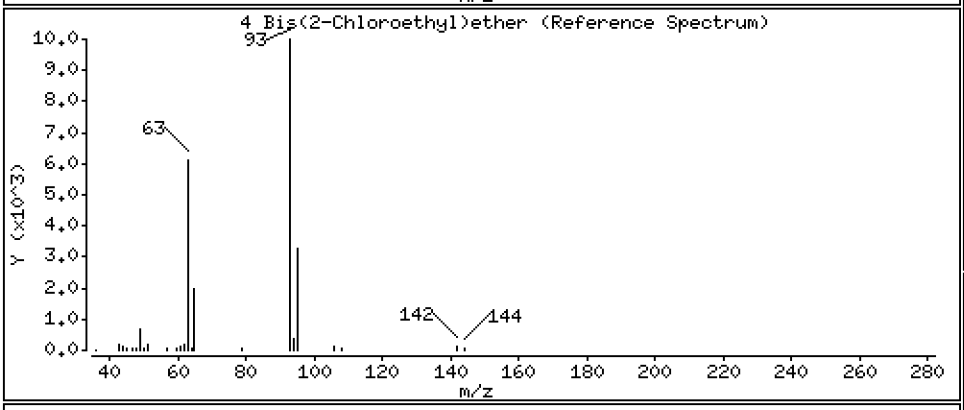
Concentration: 0.4816 ug/mL

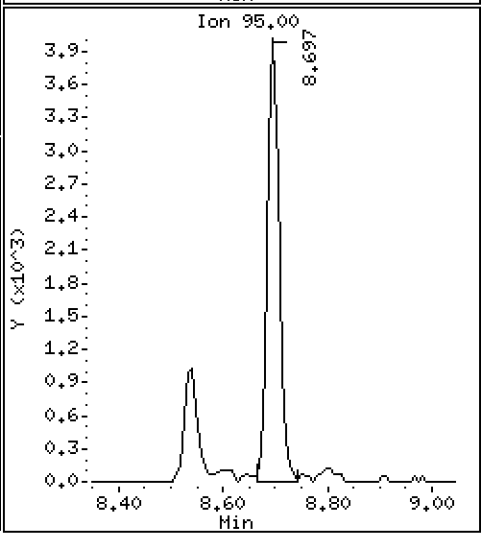


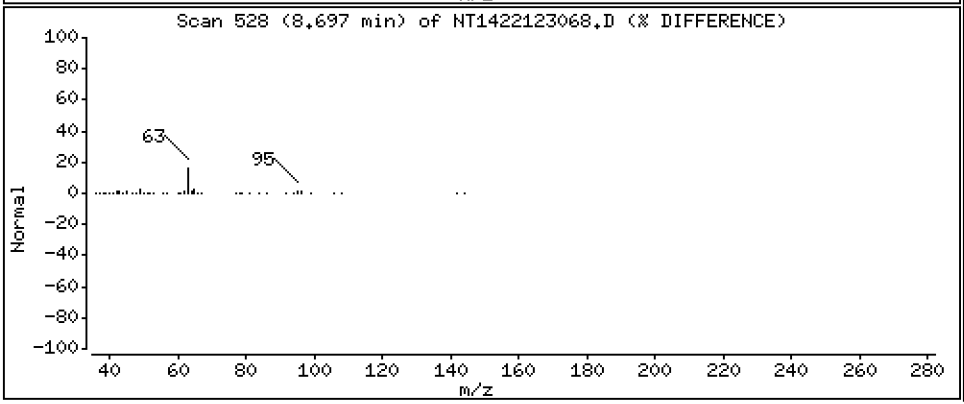












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

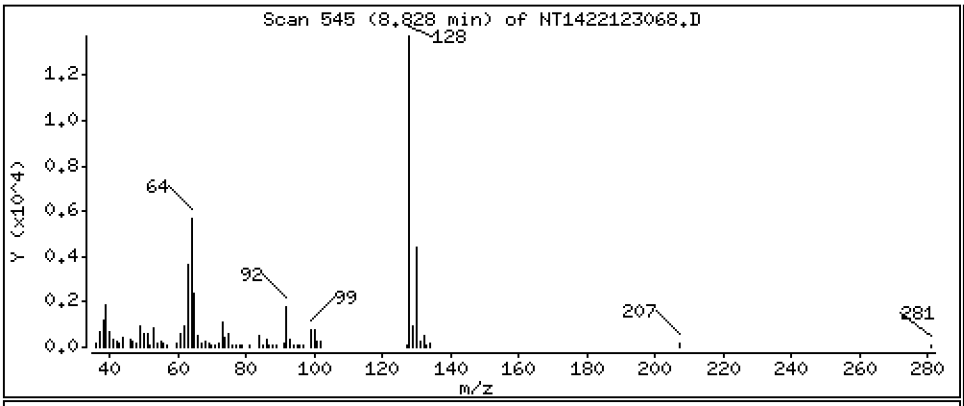
Operator: VTS

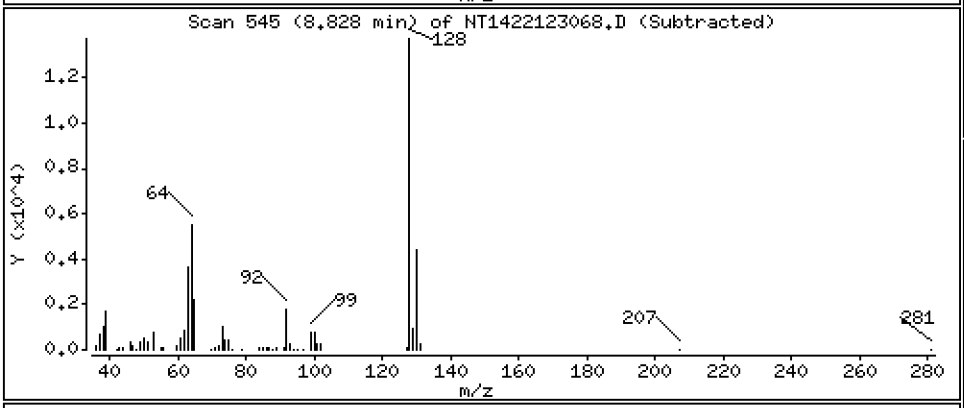
Column phase: ZB-5msi

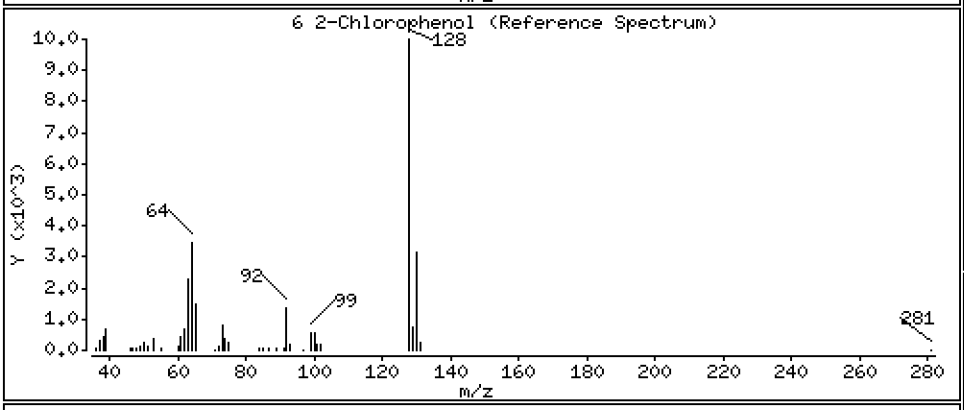
Column diameter: 0.25

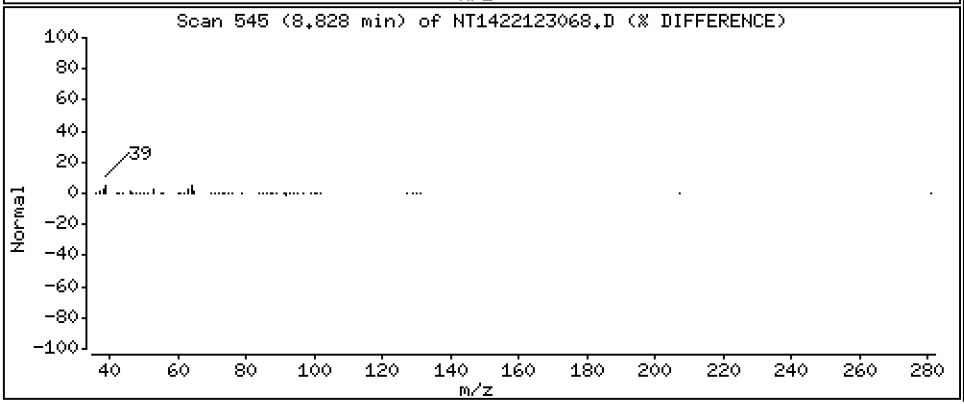
6 2-Chlorophenol

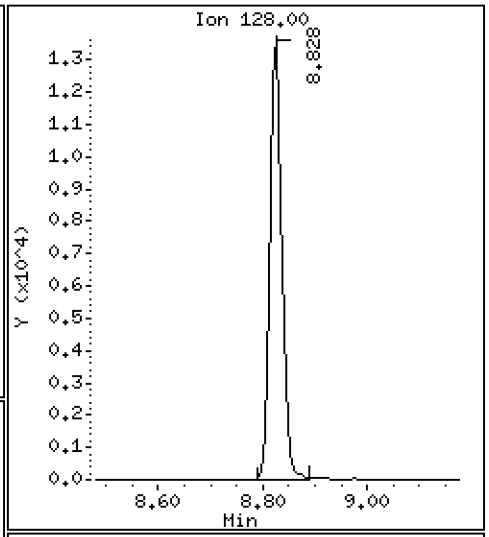
Concentration: 0.5163 ug/mL

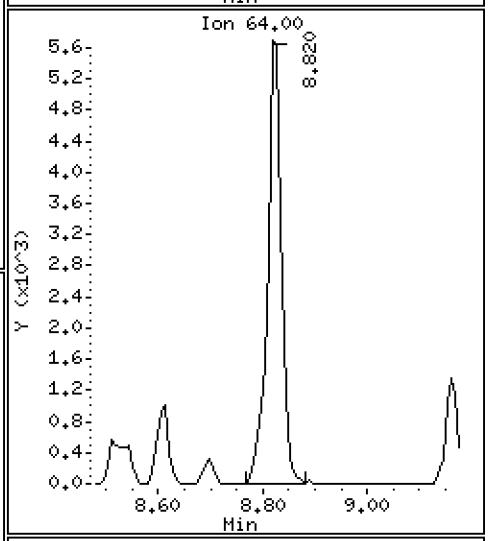


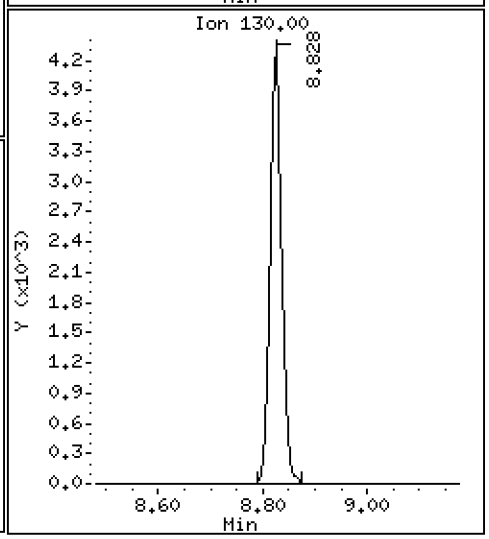












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

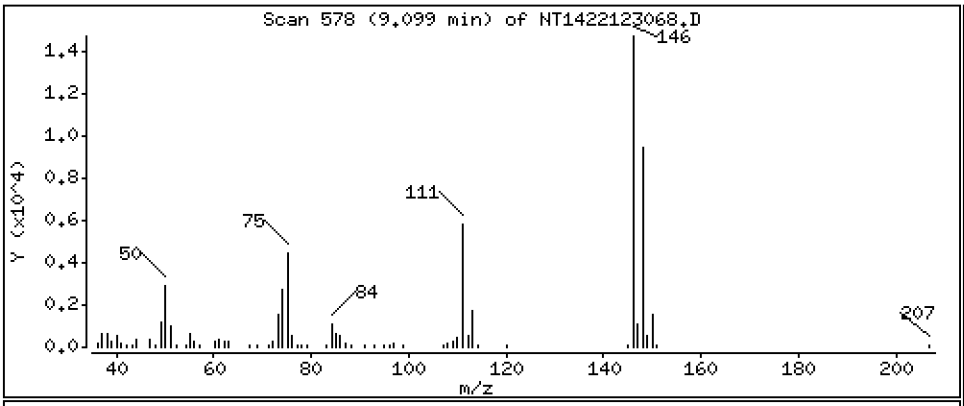
Operator: VTS

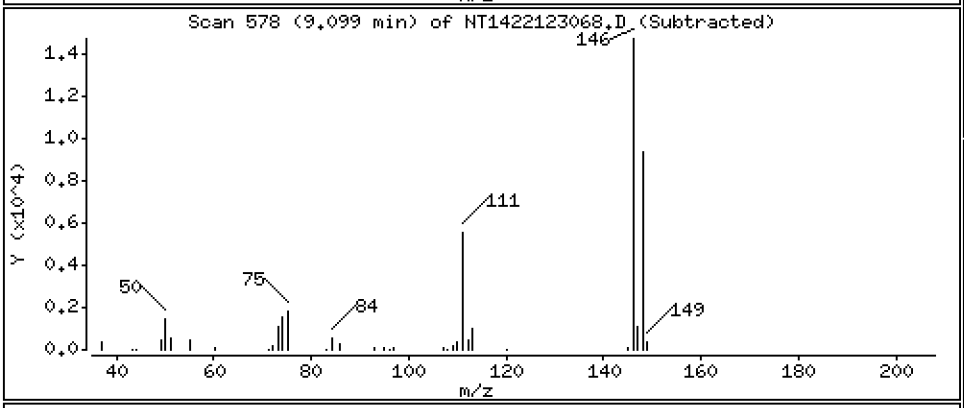
Column phase: ZB-5msi

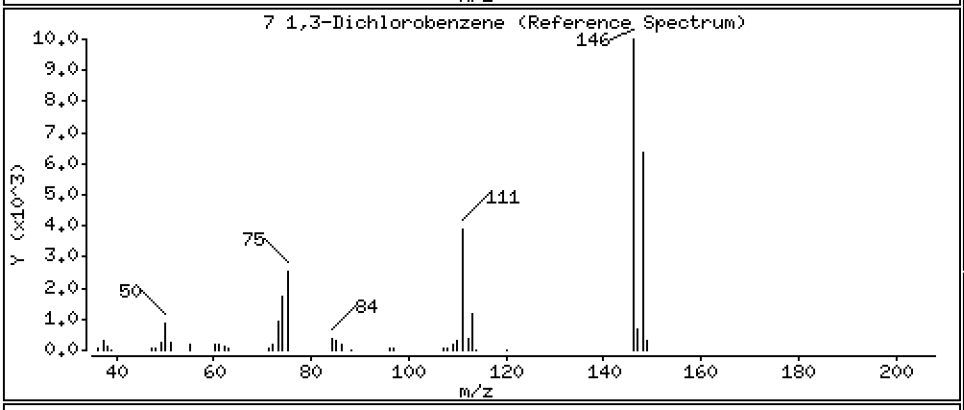
Column diameter: 0.25

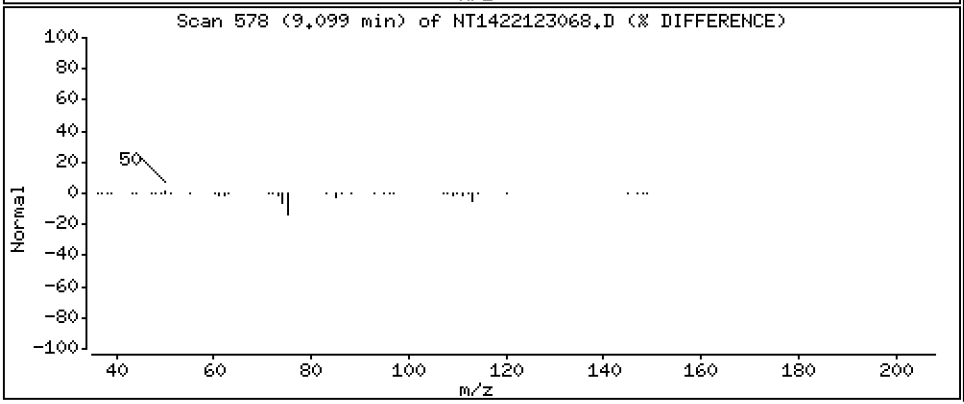
7 1,3-Dichlorobenzene

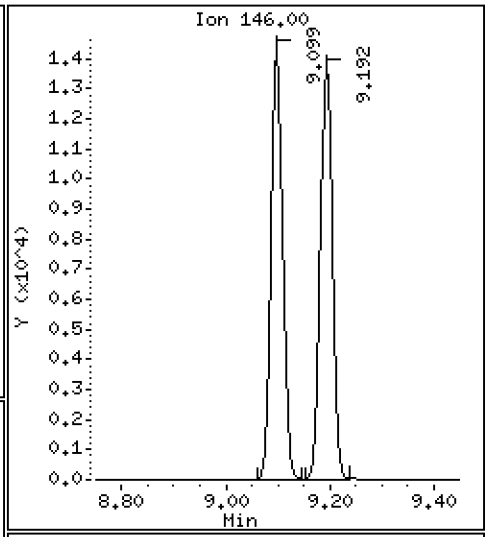
Concentration: 0.4981 ug/mL

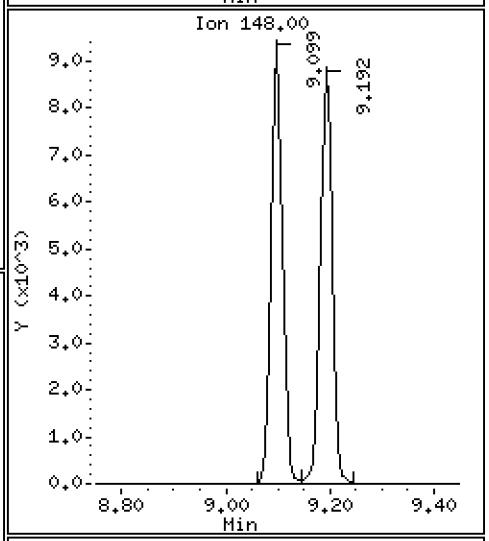


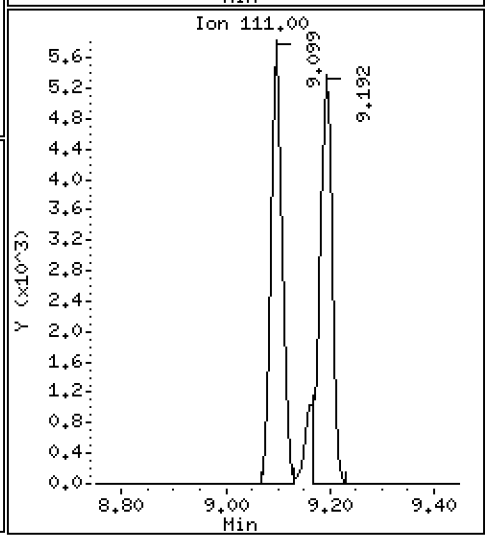












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

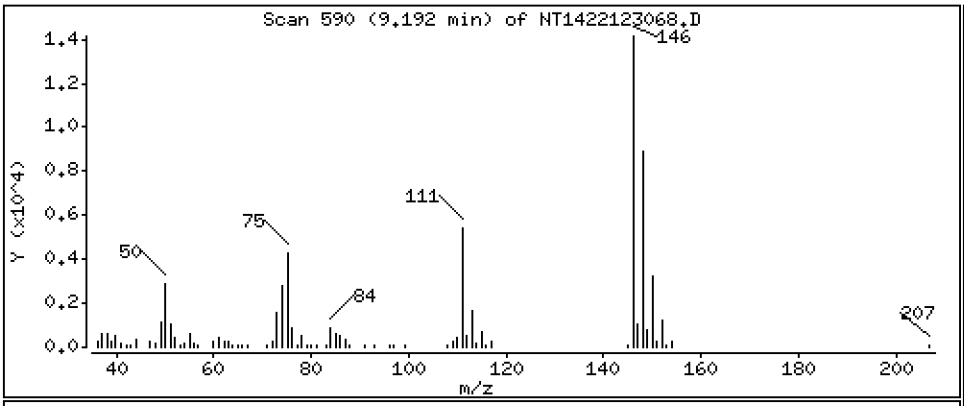
Operator: VTS

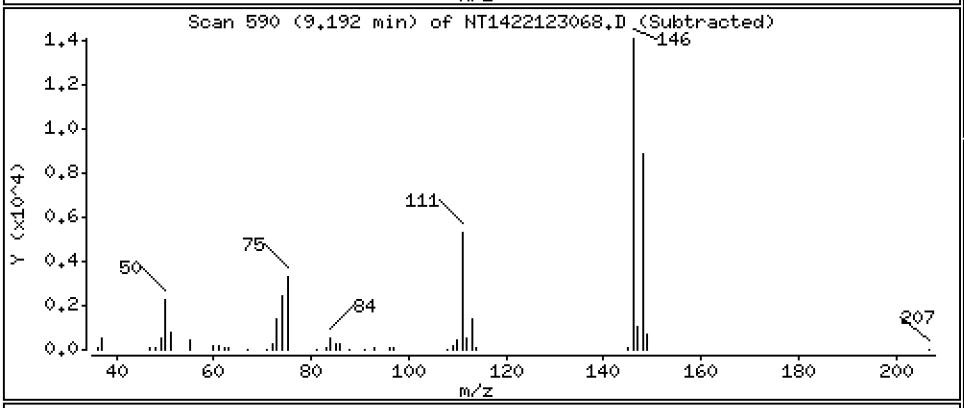
Column phase: ZB-5msi

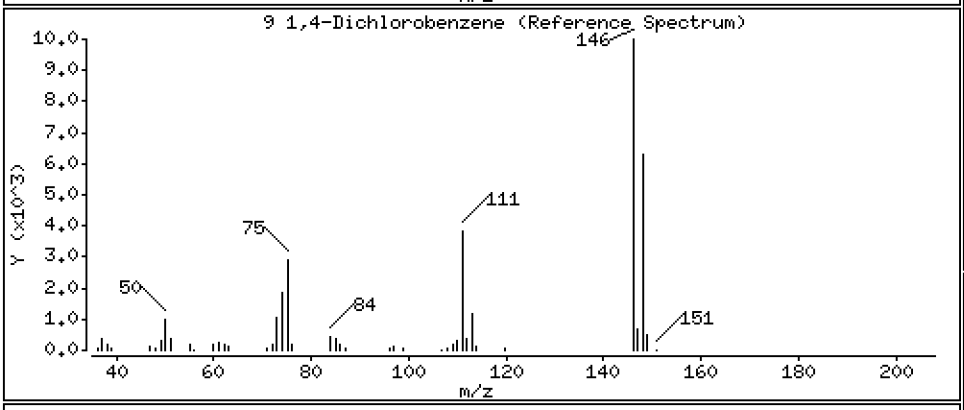
Column diameter: 0.25

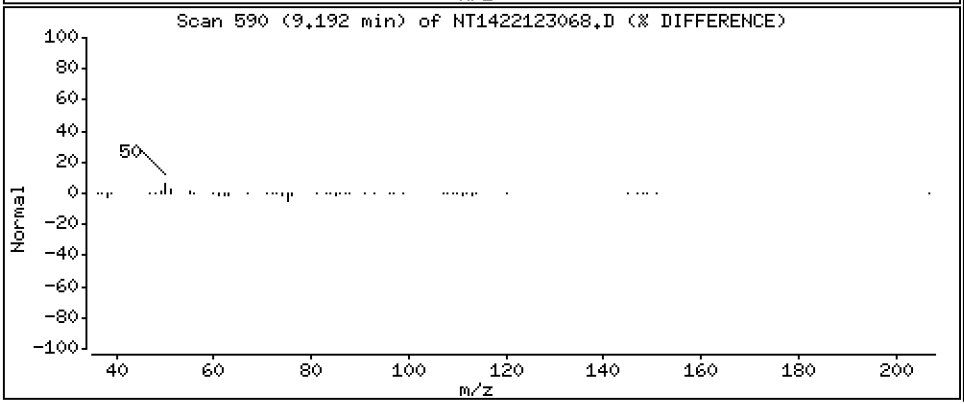
9 1,4-Dichlorobenzene

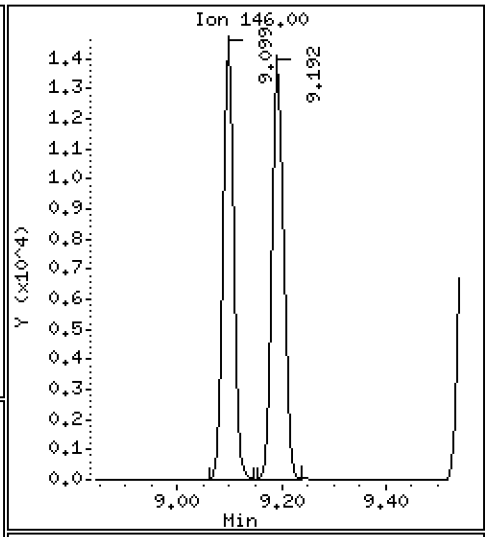
Concentration: 0.5068 ug/mL

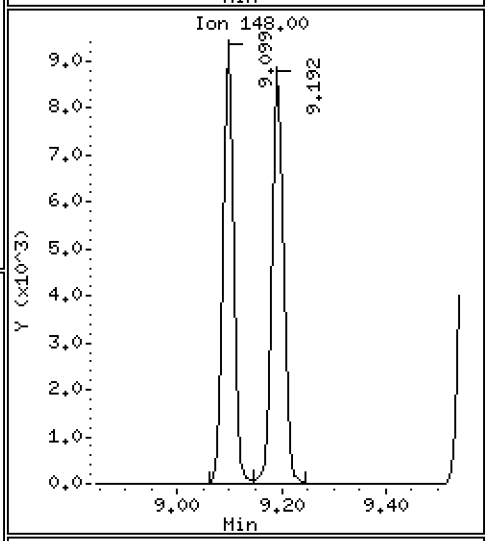


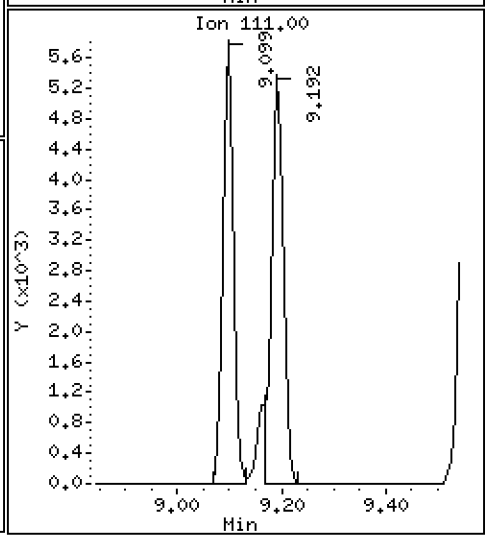












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

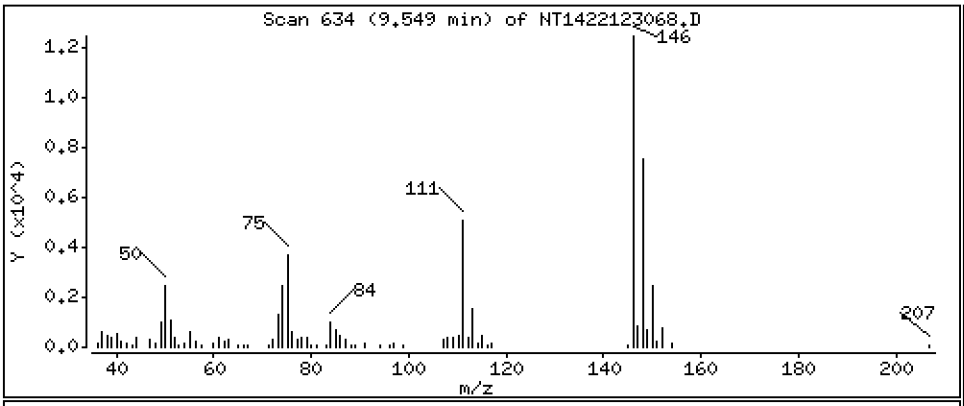
Operator: VTS

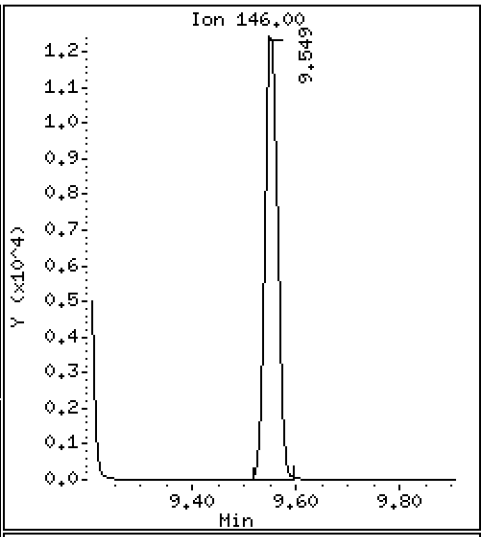
Column phase: ZB-5msi

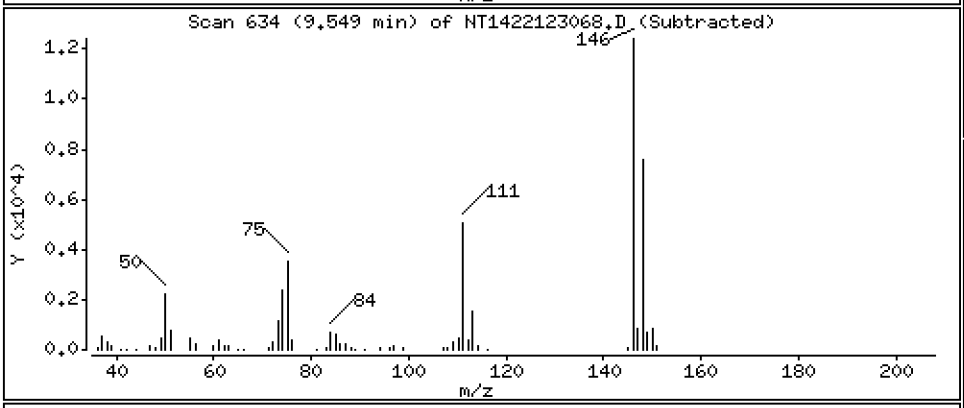
Column diameter: 0.25

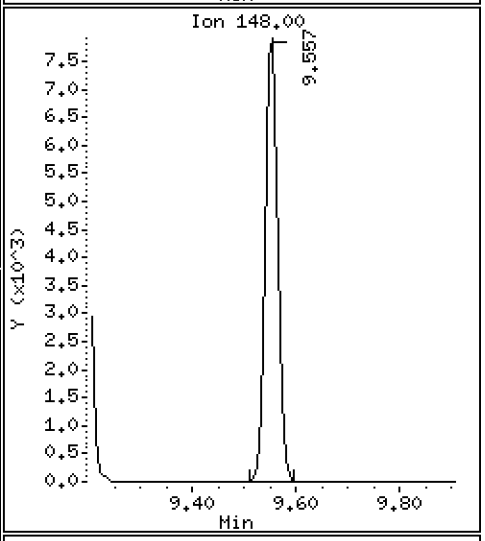
12 1,2-Dichlorobenzene

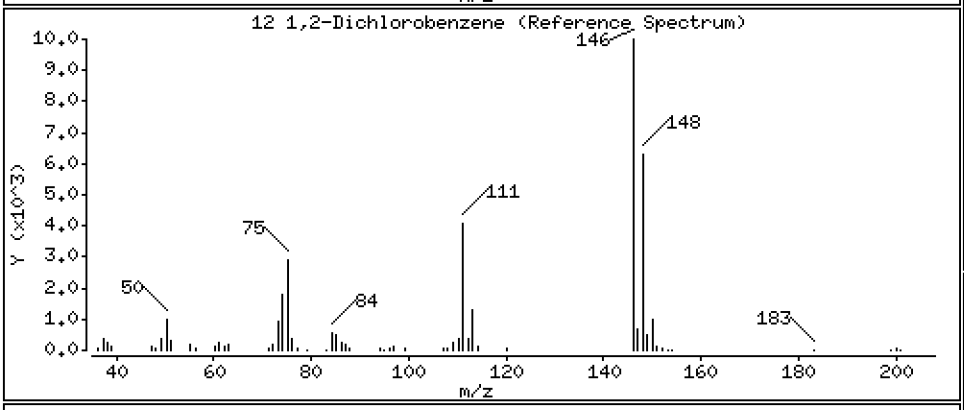
Concentration: 0.4961 ug/mL

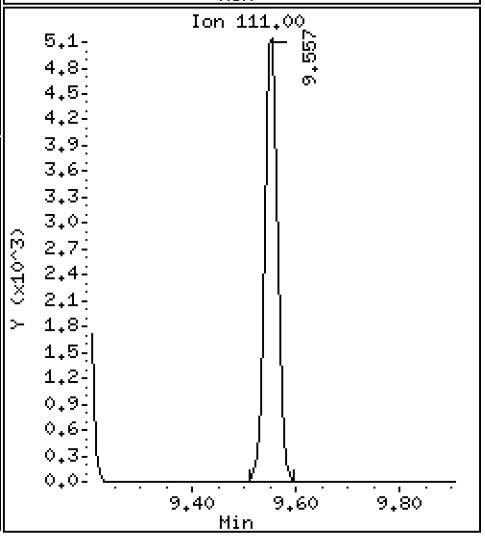


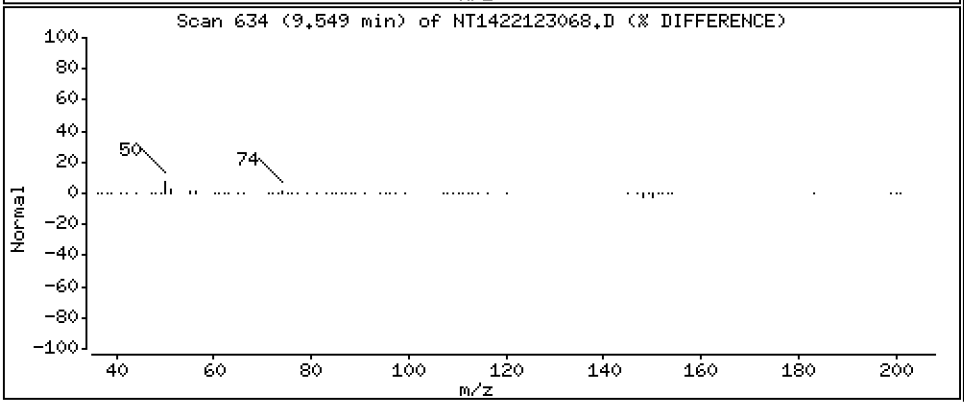












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

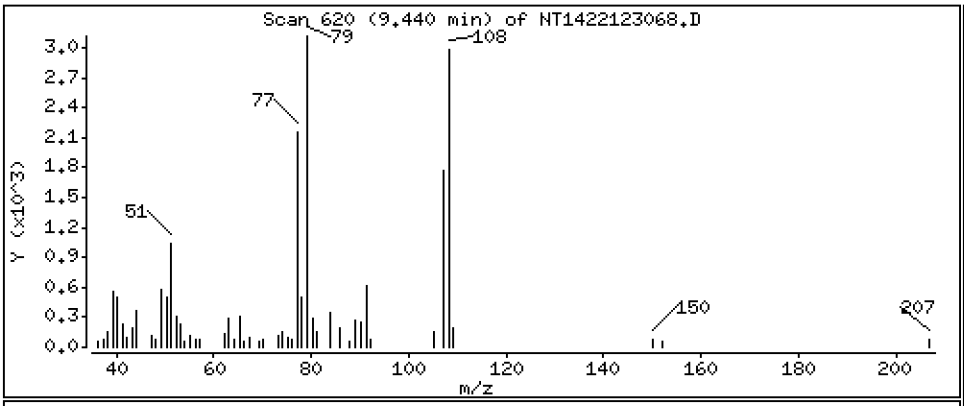
Operator: VTS

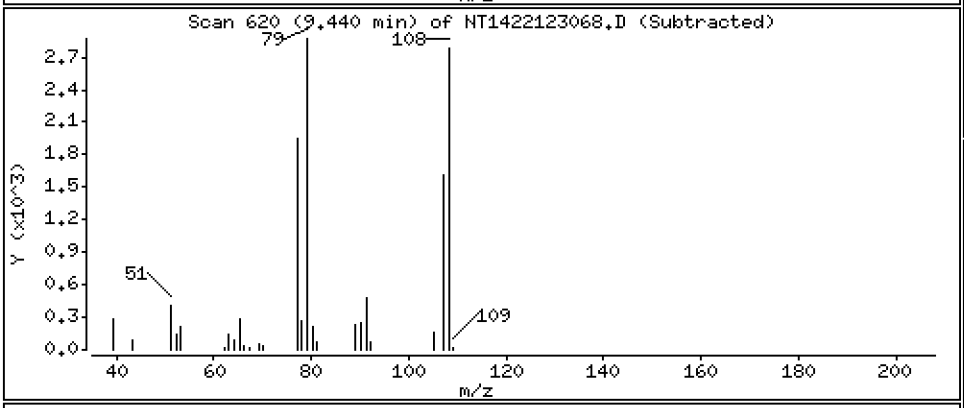
Column phase: ZB-5msi

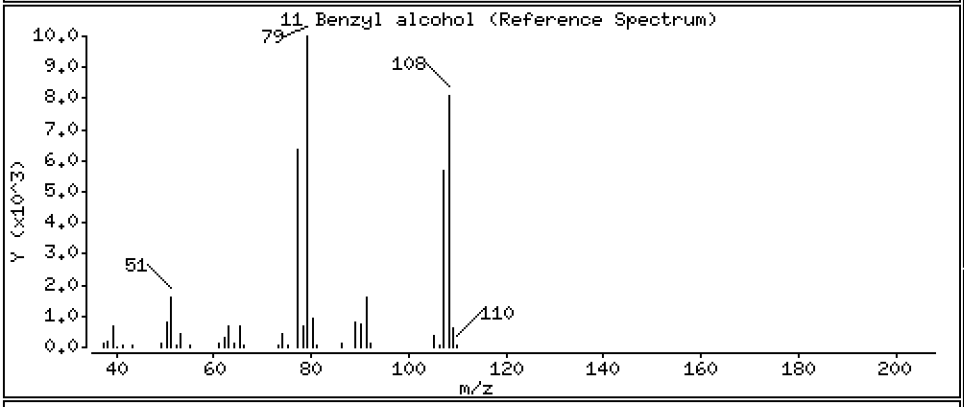
Column diameter: 0.25

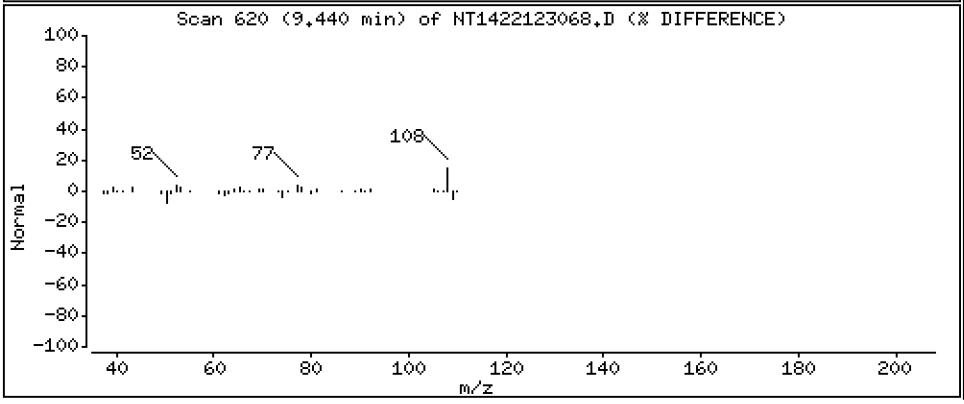
11 Benzyl alcohol

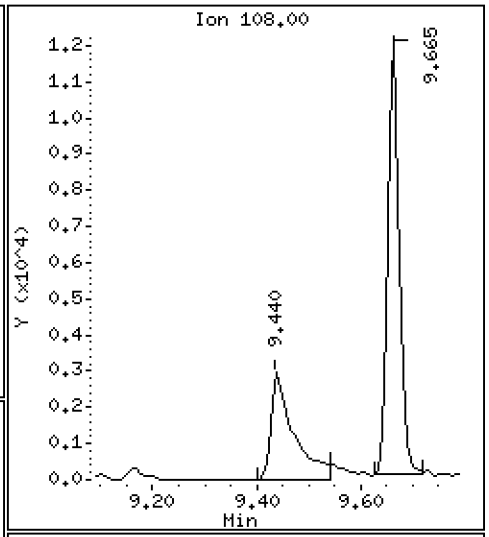
Concentration: 0.3869 ug/mL

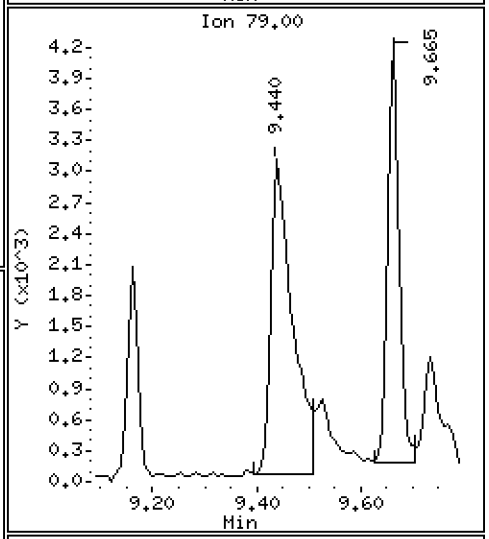


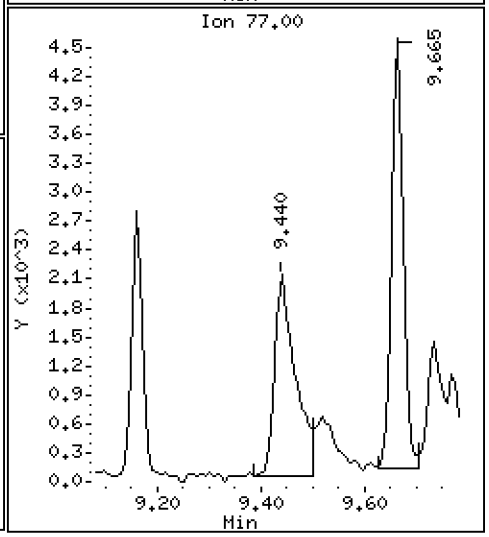












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

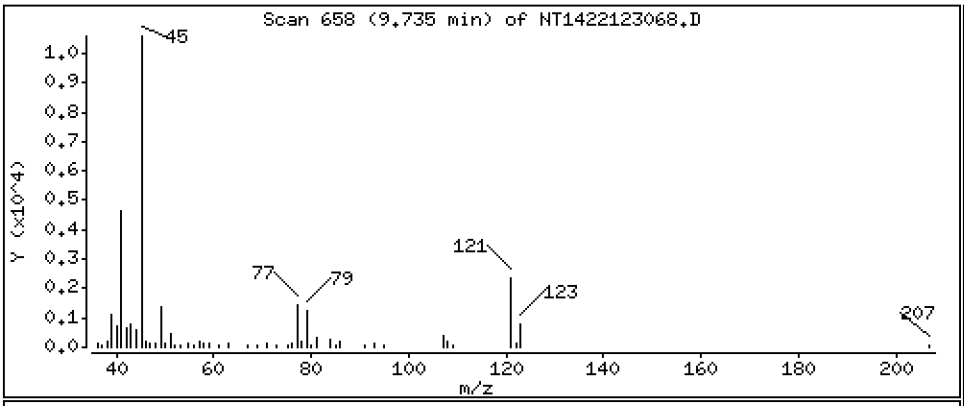
Operator: VTS

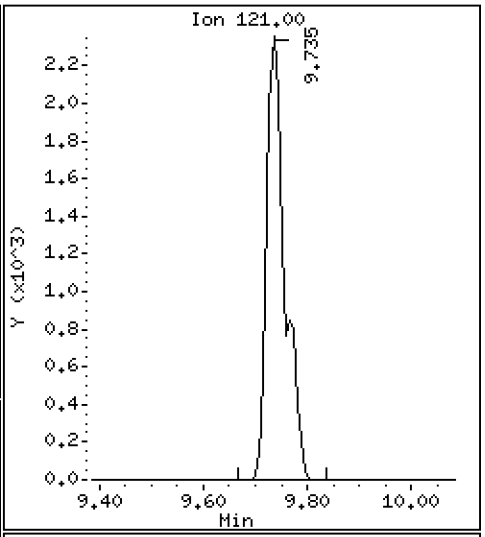
Column phase: ZB-5msi

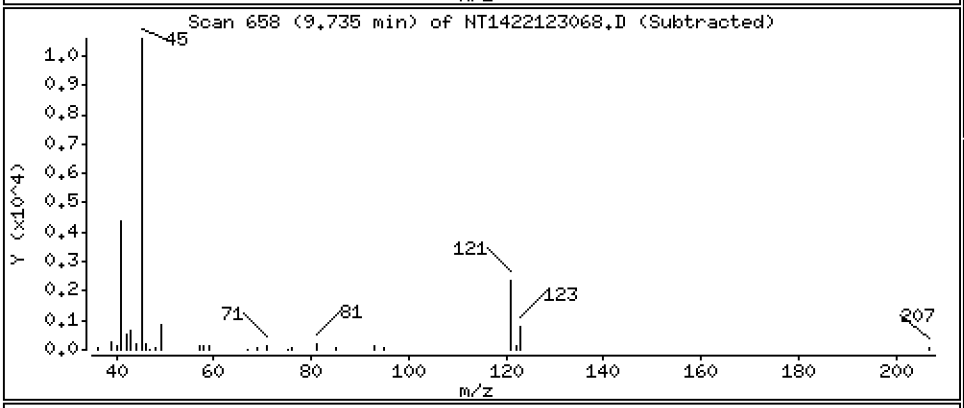
Column diameter: 0.25

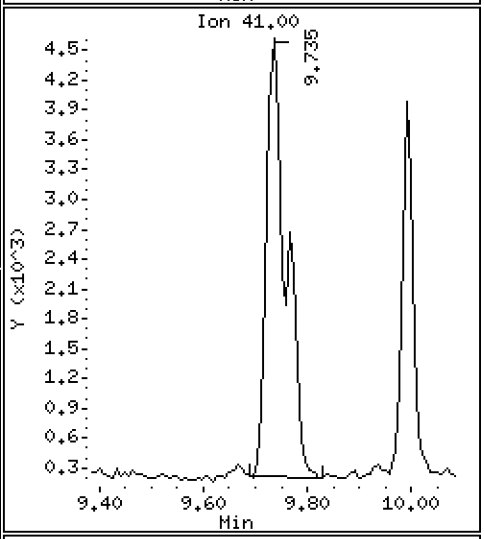
14 2,2'-oxybis(1-Chloropropane)

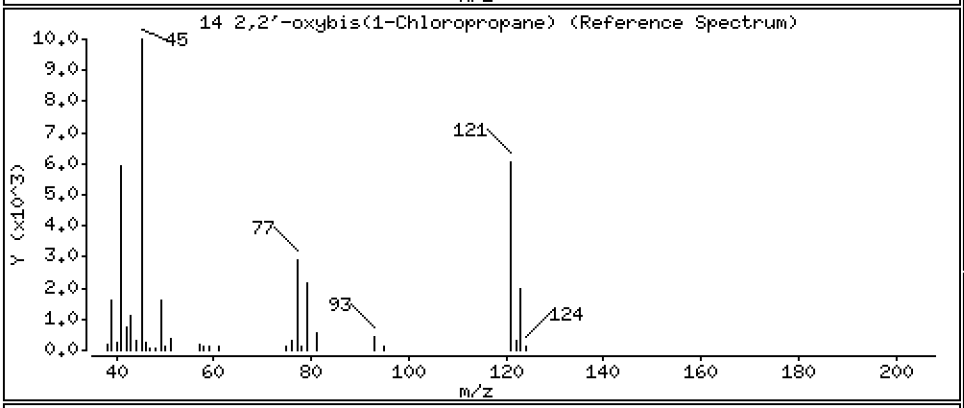
Concentration: 0.4728 ug/mL

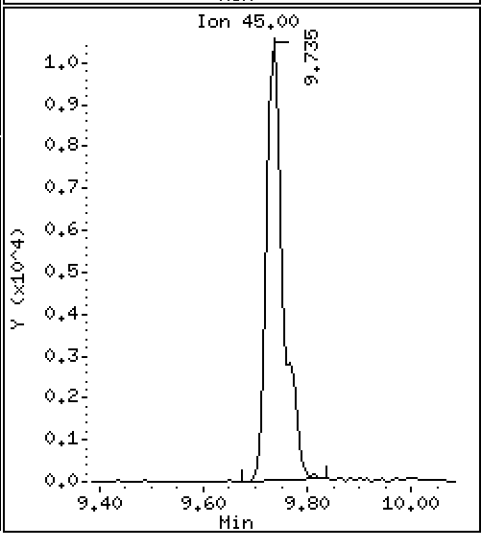


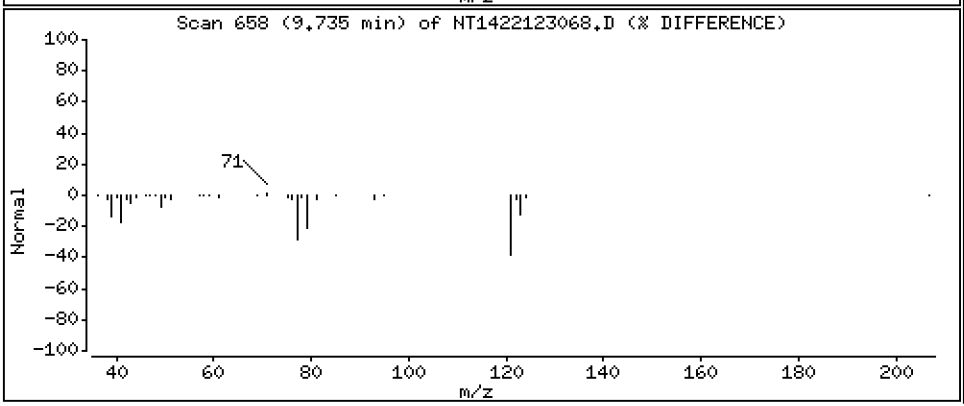












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

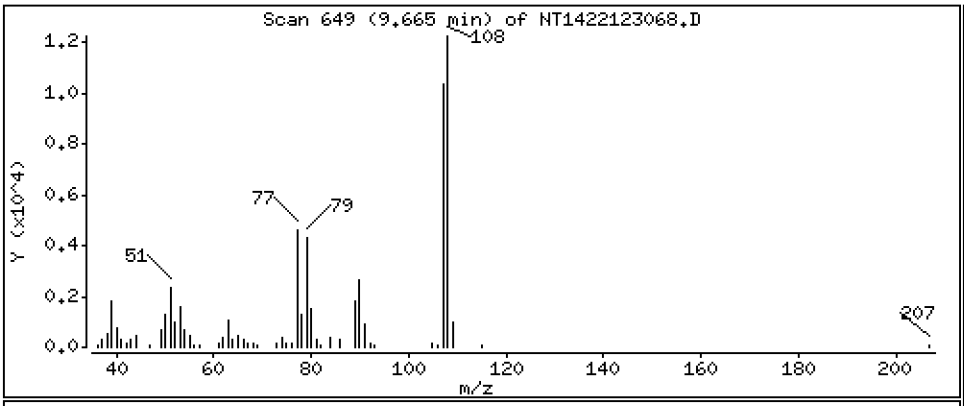
Operator: VTS

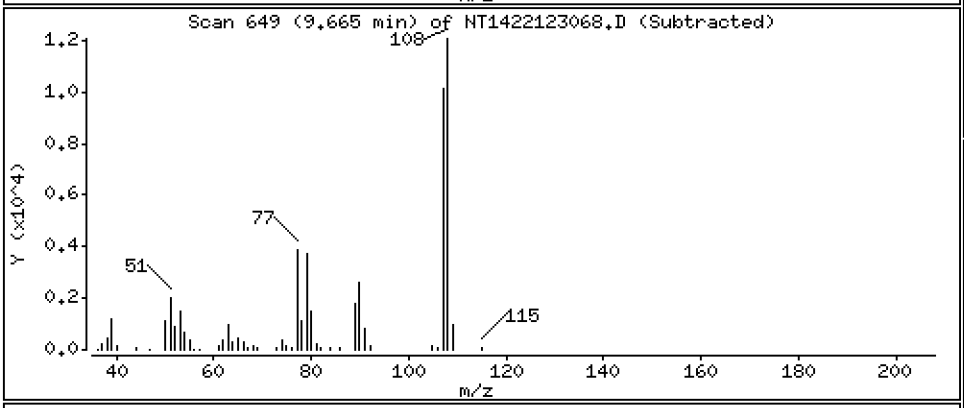
Column phase: ZB-5msi

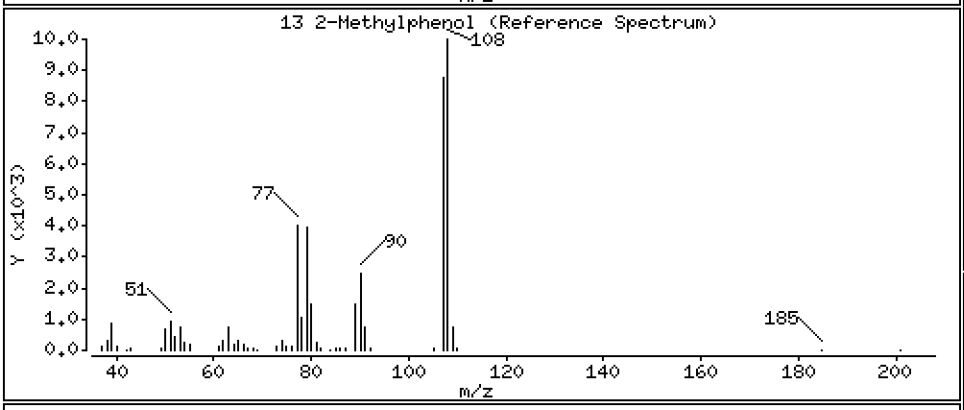
Column diameter: 0.25

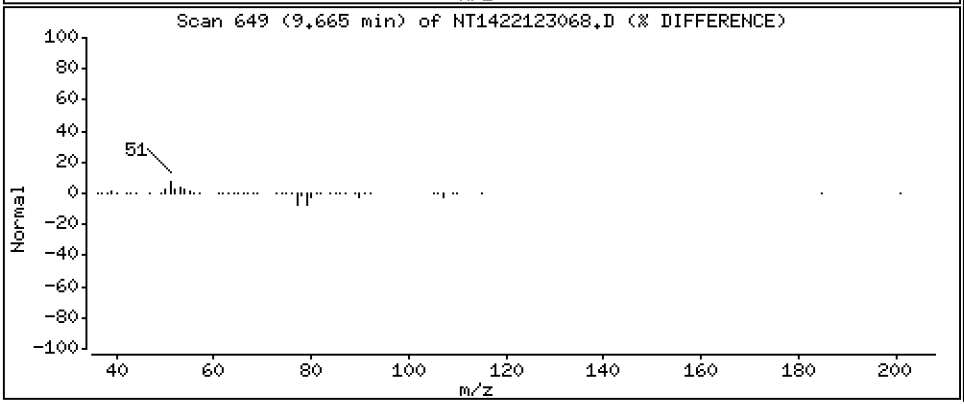
13 2-Methylphenol

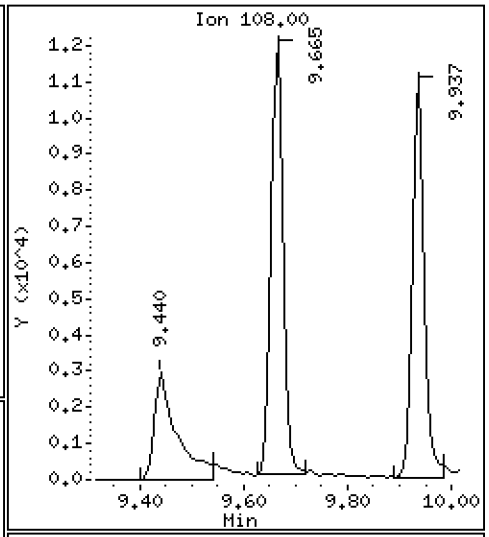
Concentration: 0.4871 ug/mL

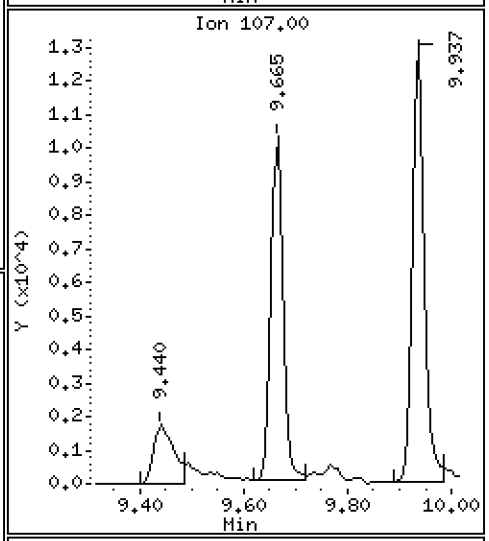


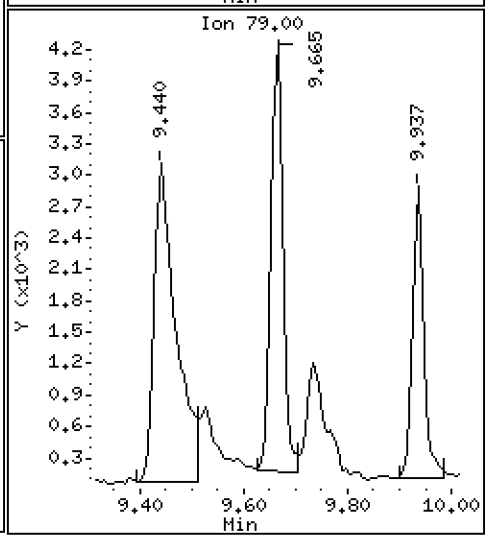












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

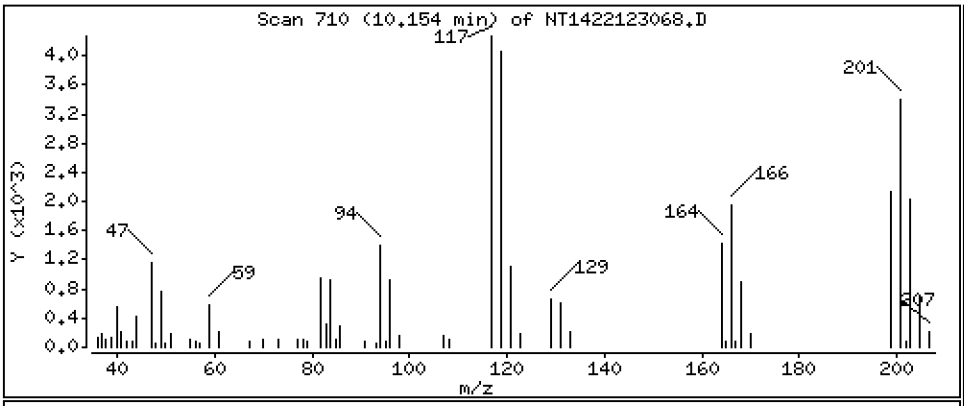
Operator: VTS

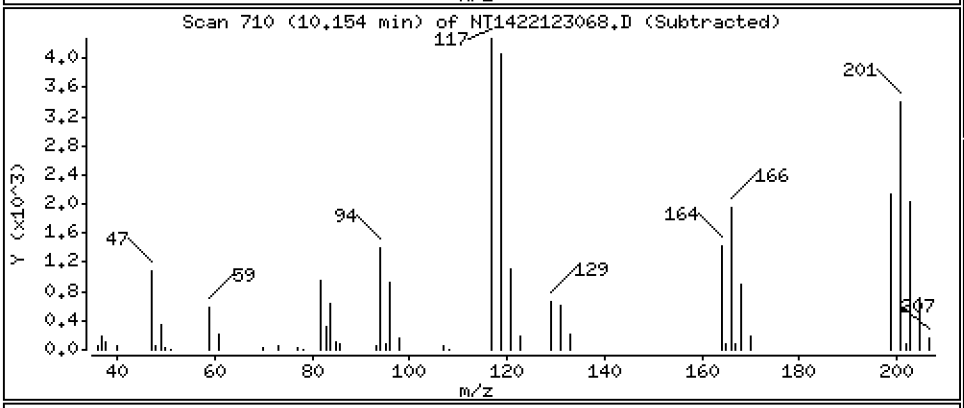
Column phase: ZB-5msi

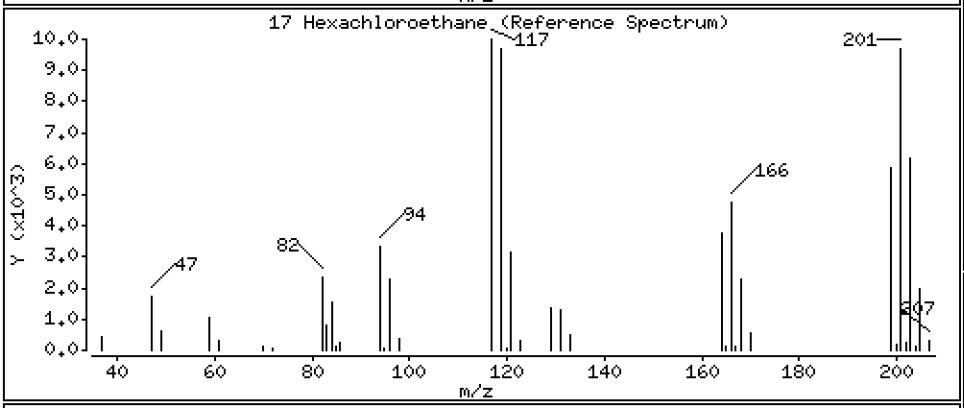
Column diameter: 0.25

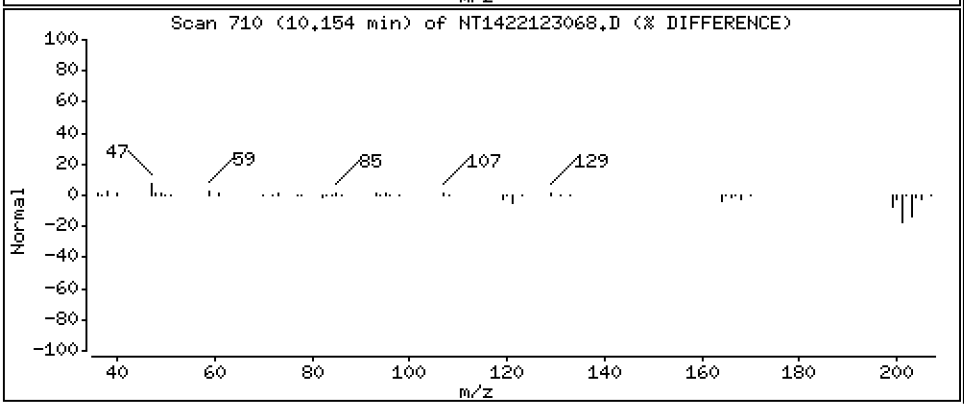
17 Hexachloroethane

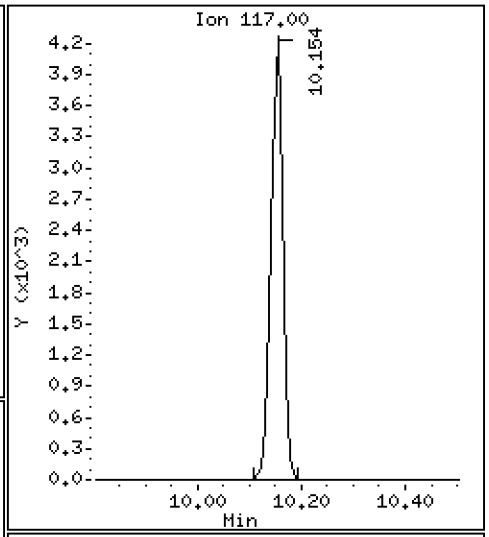
Concentration: 0.4126 ug/mL

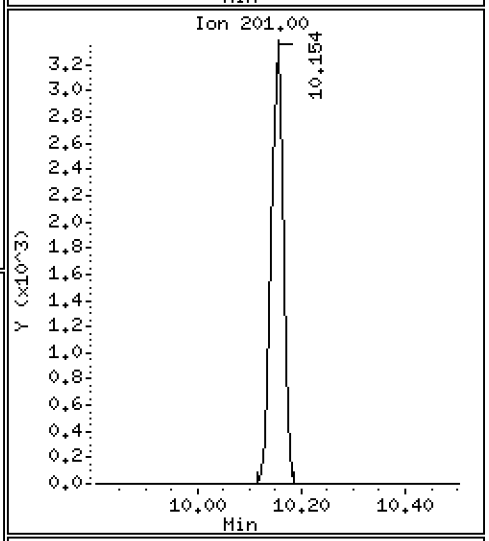


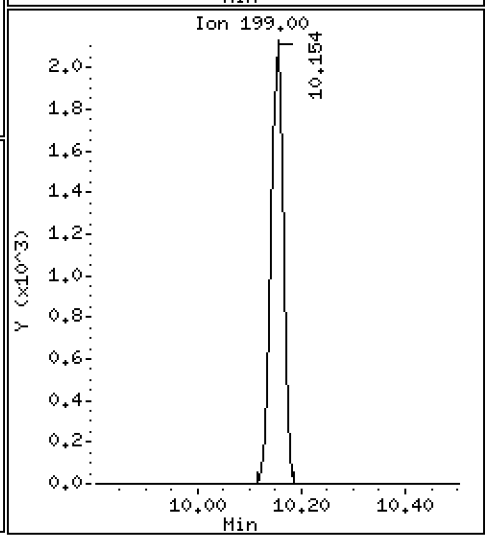












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

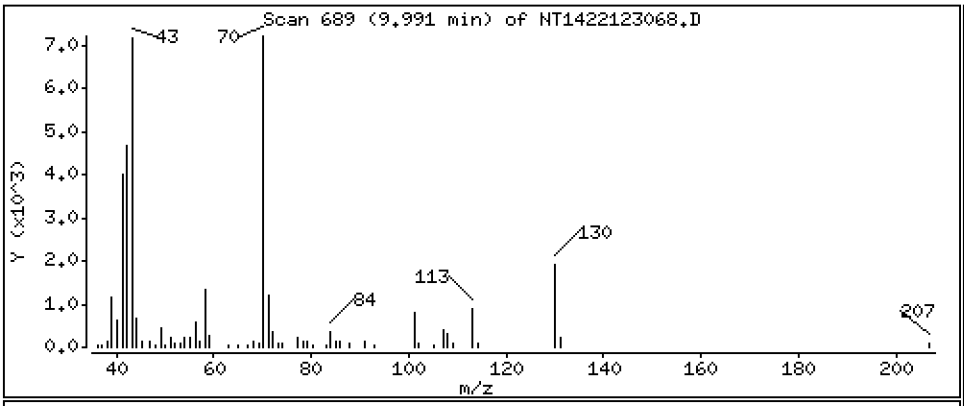
Operator: VTS

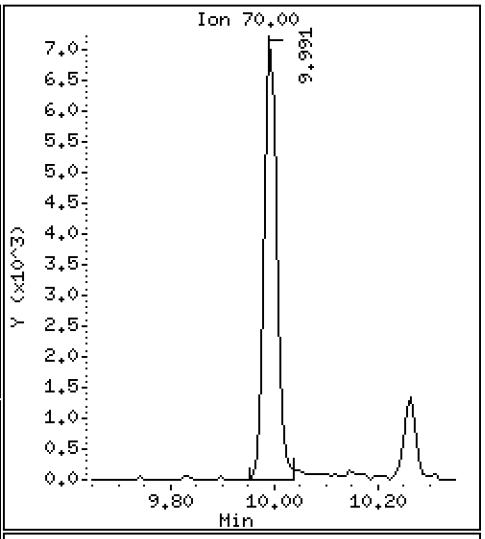
Column phase: ZB-5msi

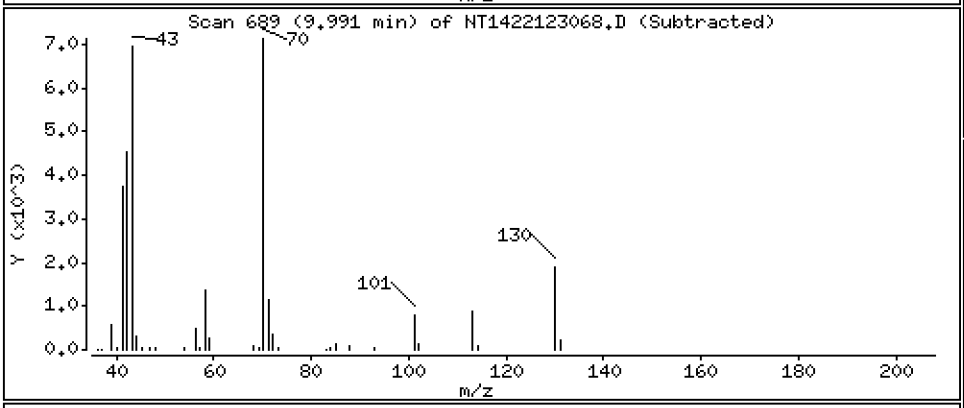
Column diameter: 0.25

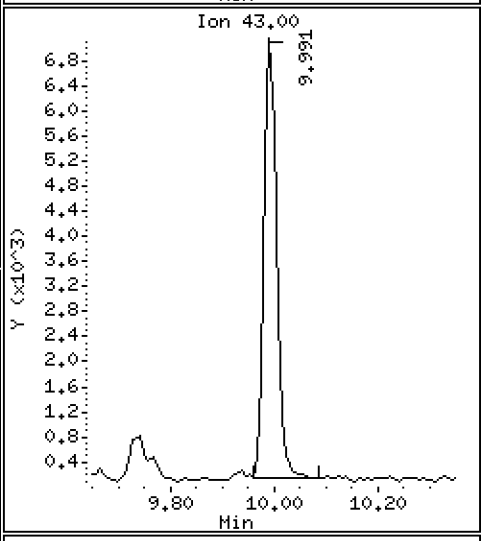
16 N-Nitroso-di-n-propylamine

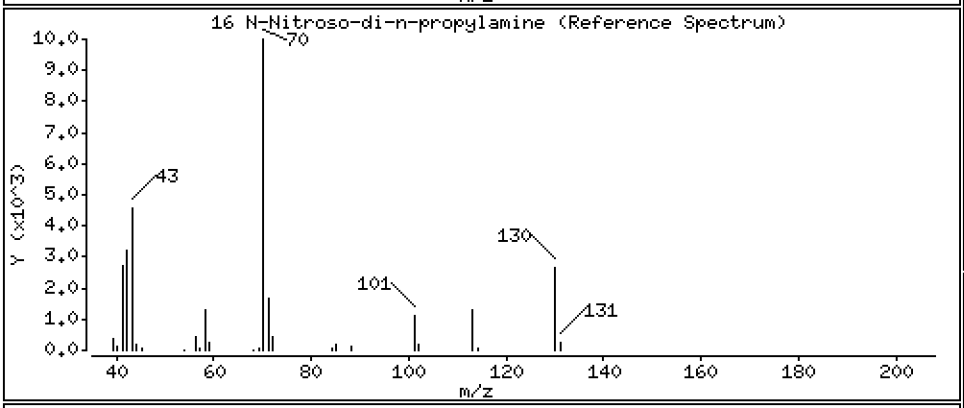
Concentration: 0.5075 ug/mL

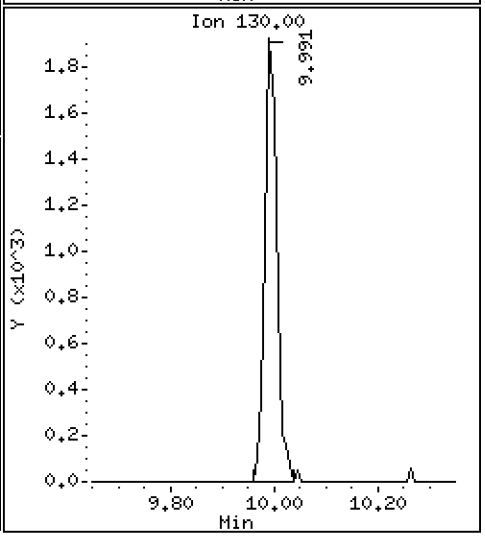


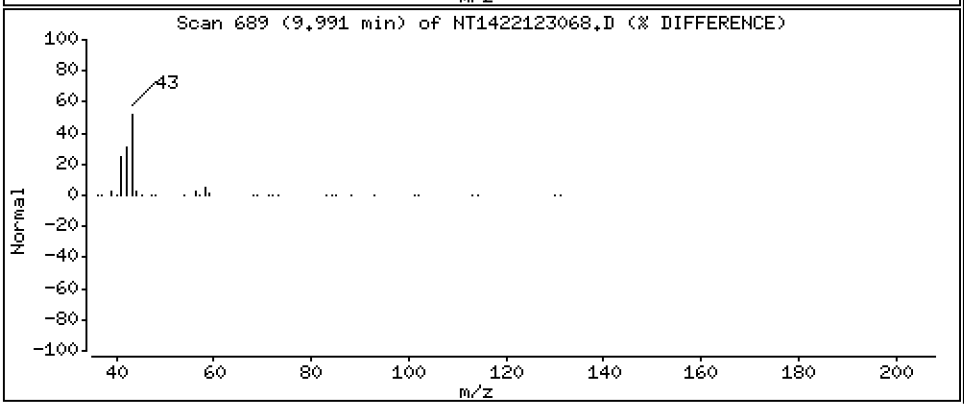












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

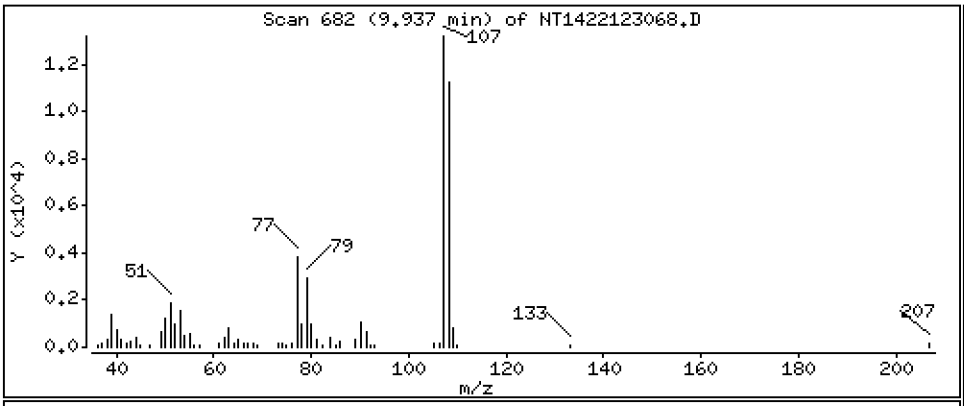
Operator: VTS

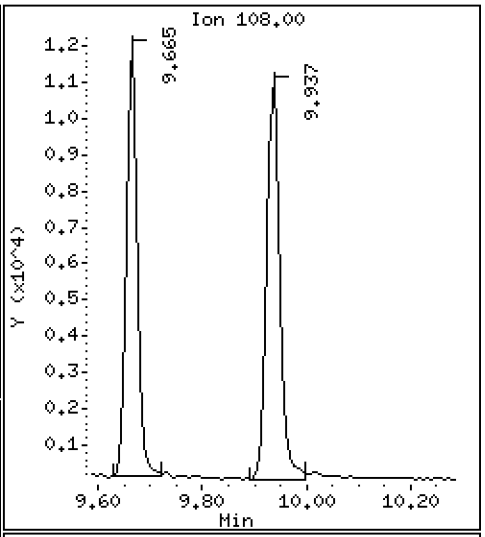
Column phase: ZB-5msi

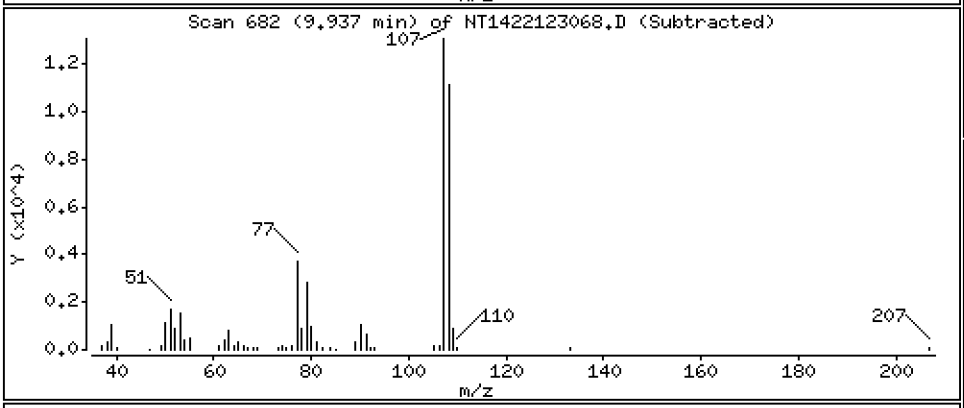
Column diameter: 0.25

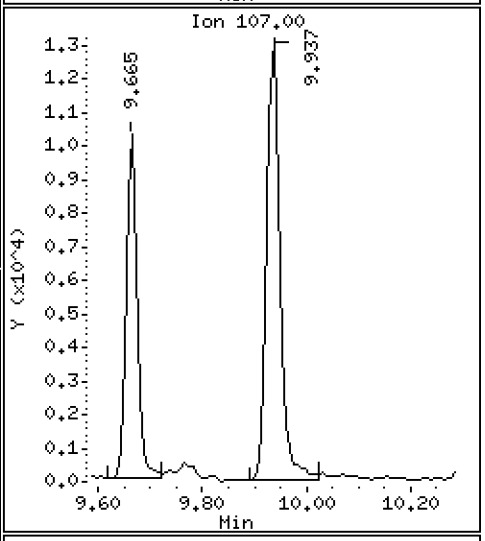
15 4-Methylphenol

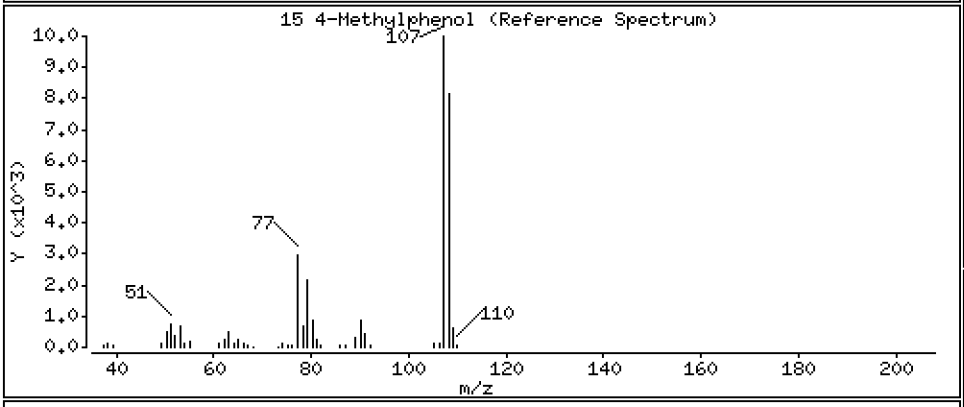
Concentration: 0.4654 ug/mL

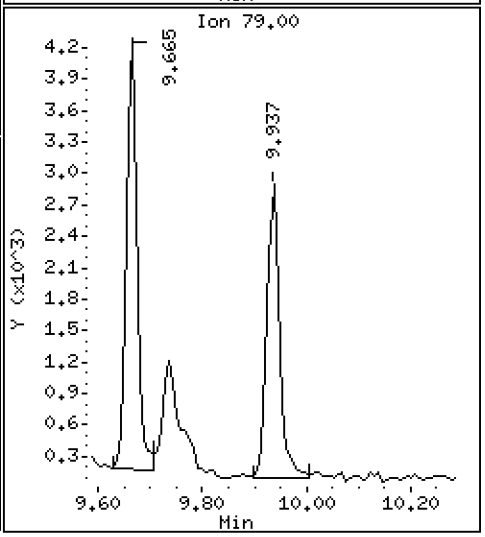


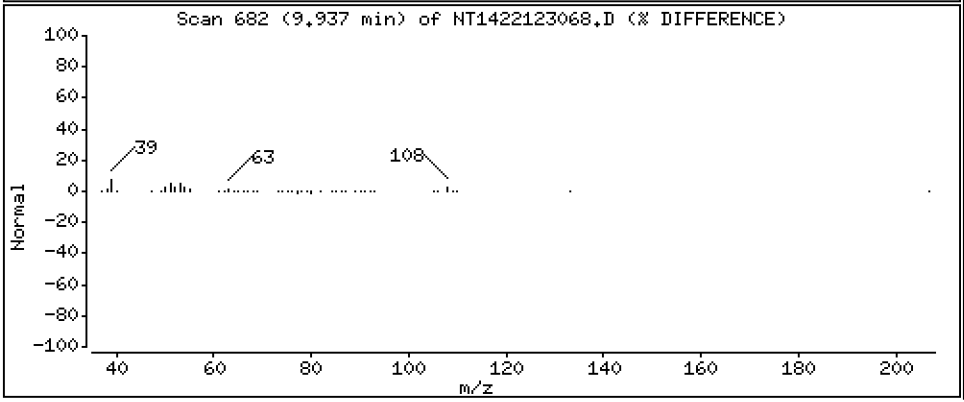












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

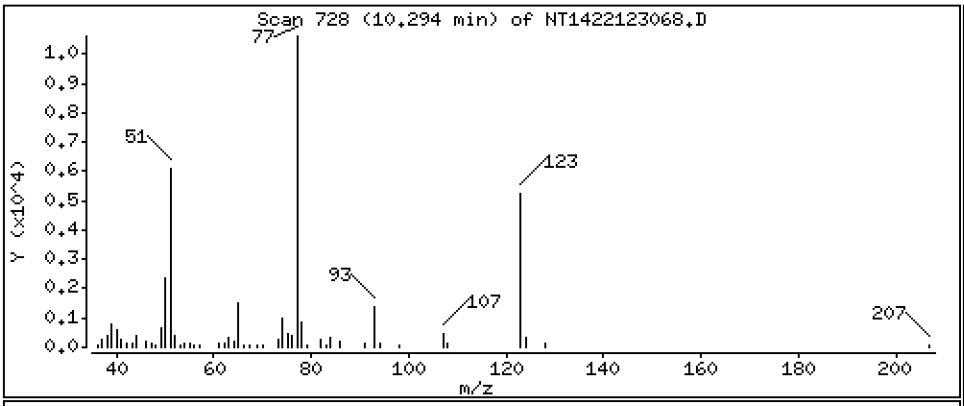
Operator: VTS

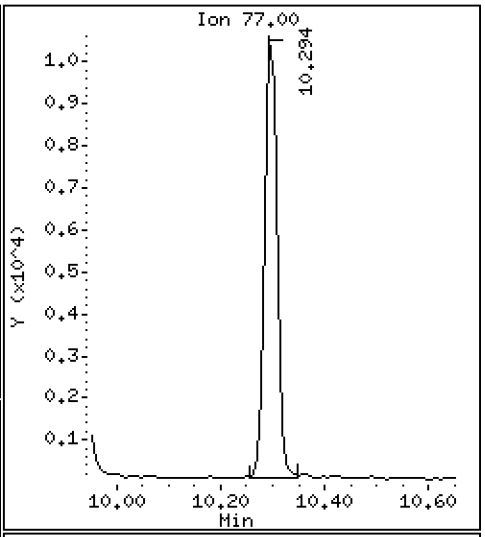
Column phase: ZB-5msi

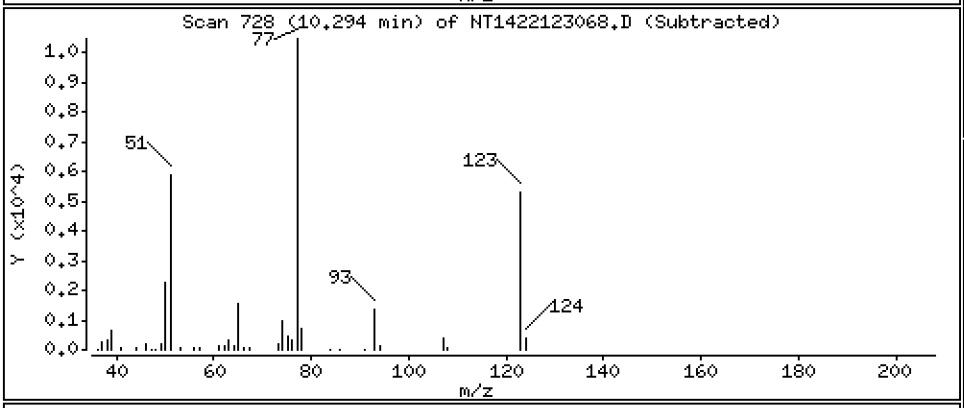
Column diameter: 0.25

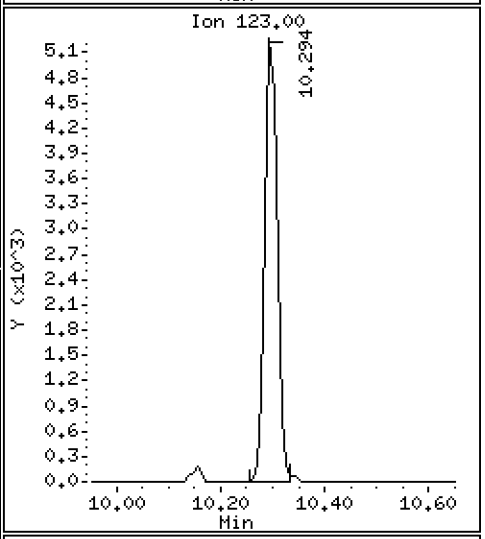
19 Nitrobenzene

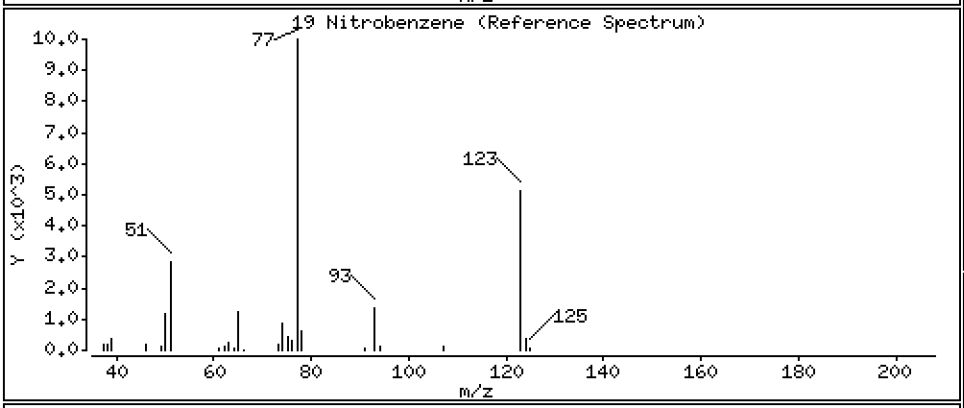
Concentration: 0.4693 ug/mL

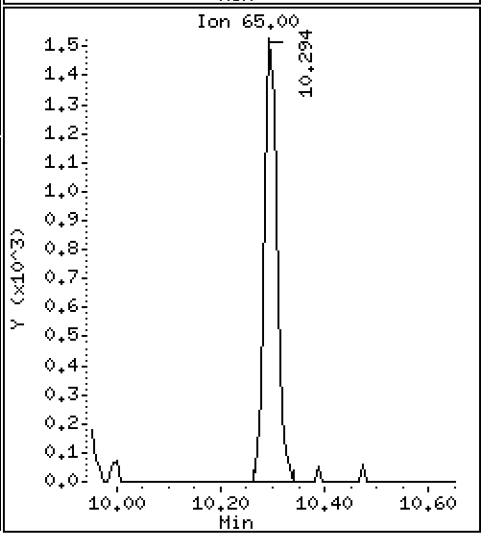


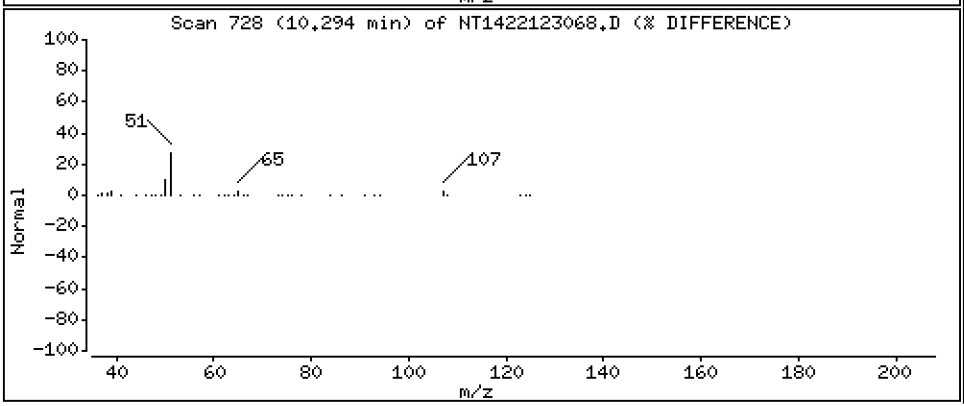












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

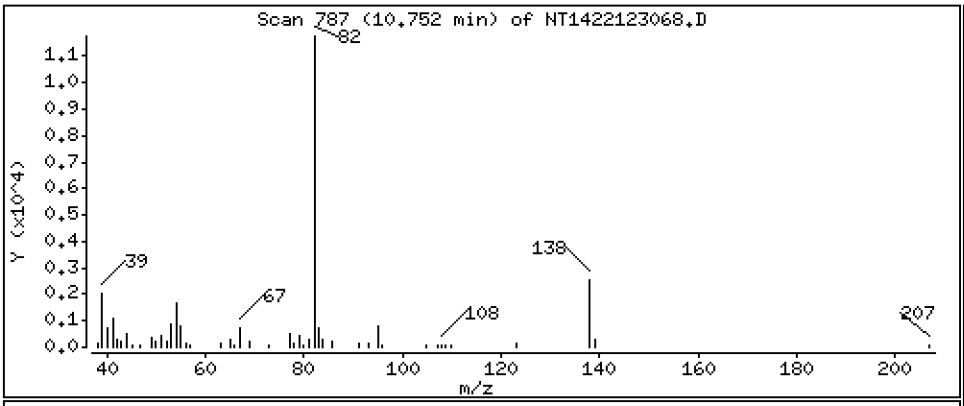
Operator: VTS

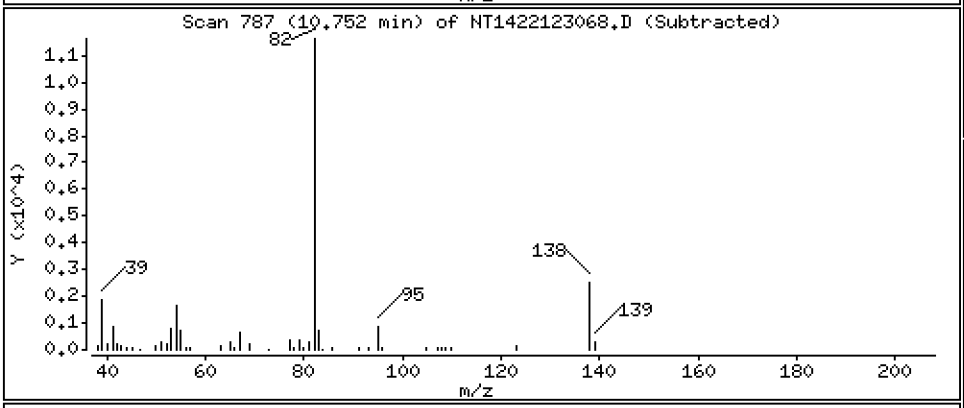
Column phase: ZB-5msi

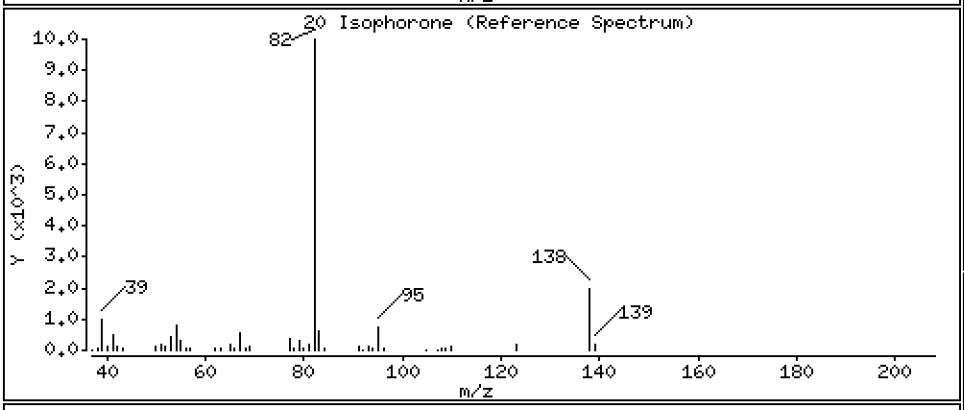
Column diameter: 0.25

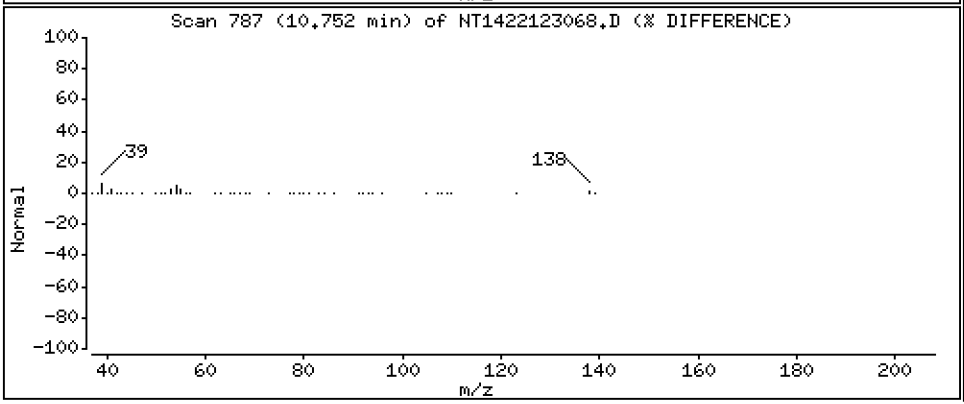
20 Isophorone

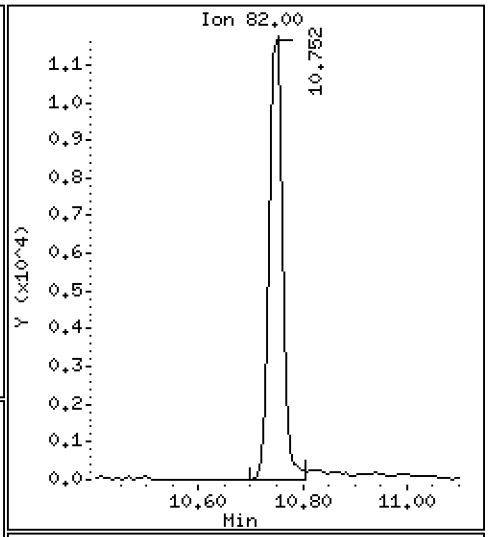
Concentration: 0.4524 ug/mL

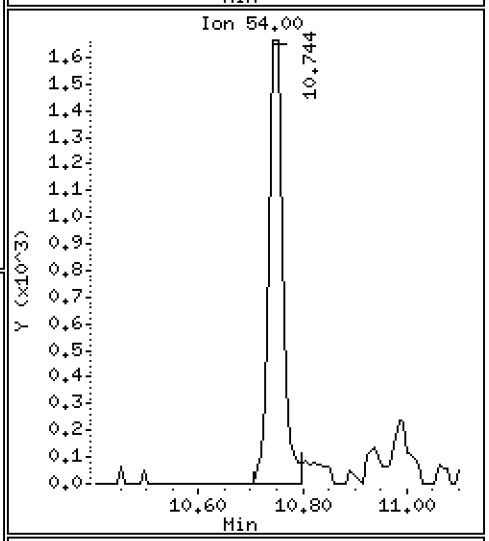


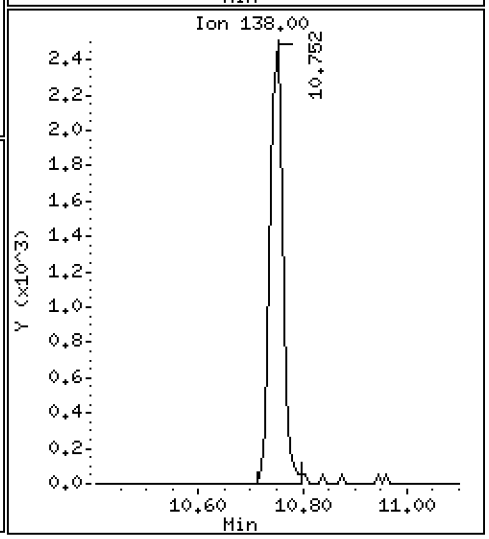












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

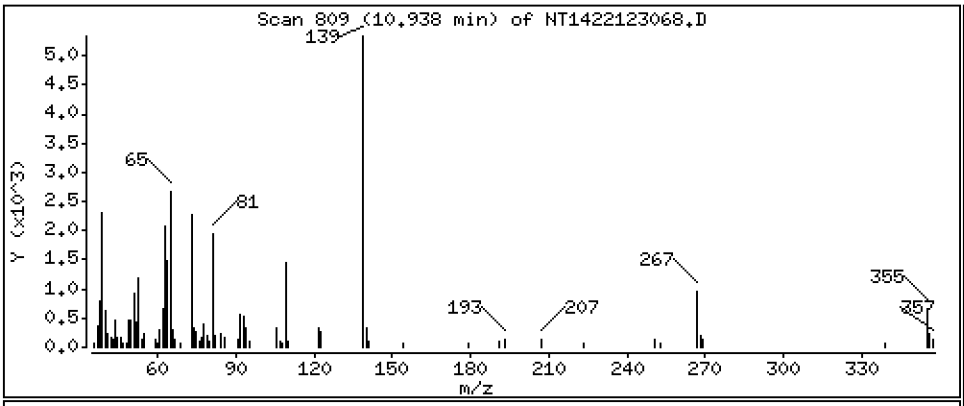
Operator: VTS

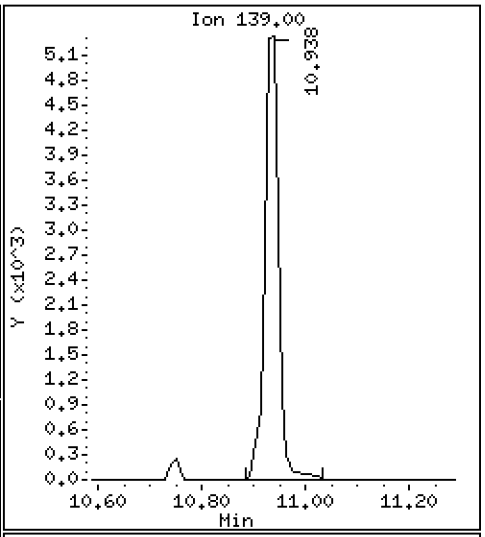
Column phase: ZB-5msi

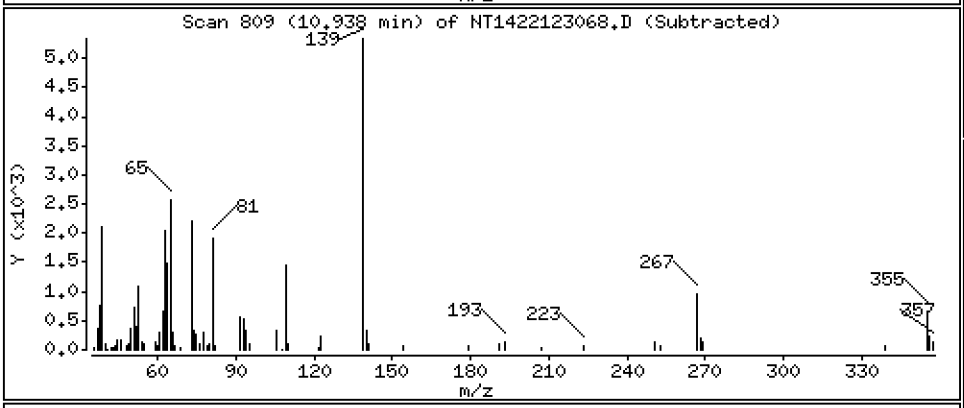
Column diameter: 0.25

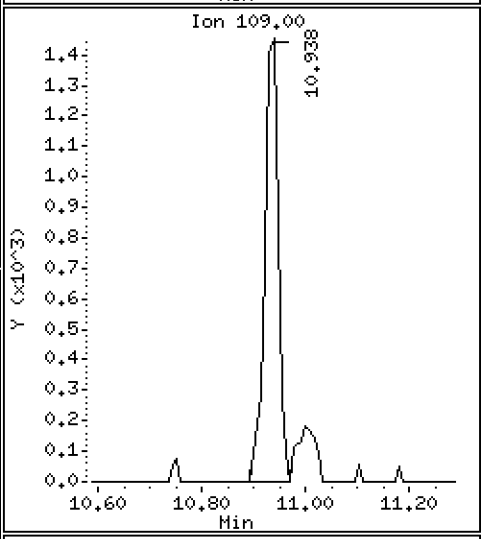
21 2-Nitrophenol

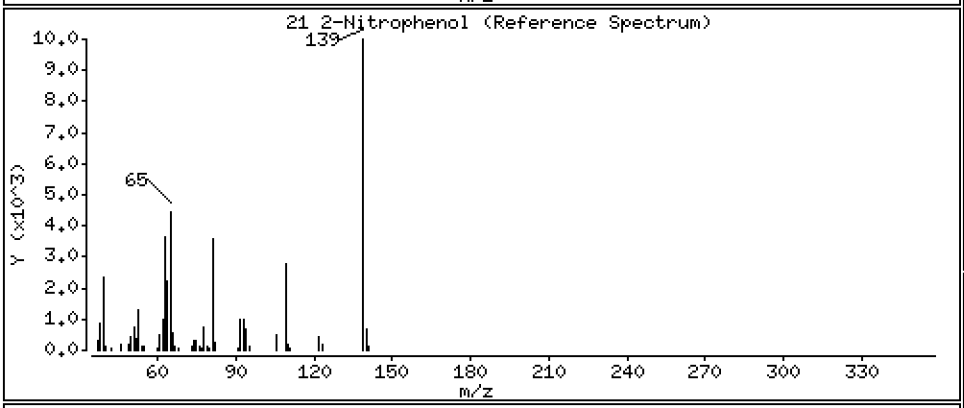
Concentration: 0.4732 ug/mL

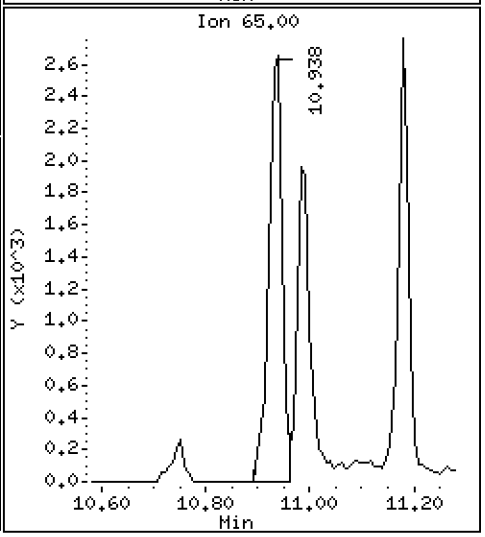


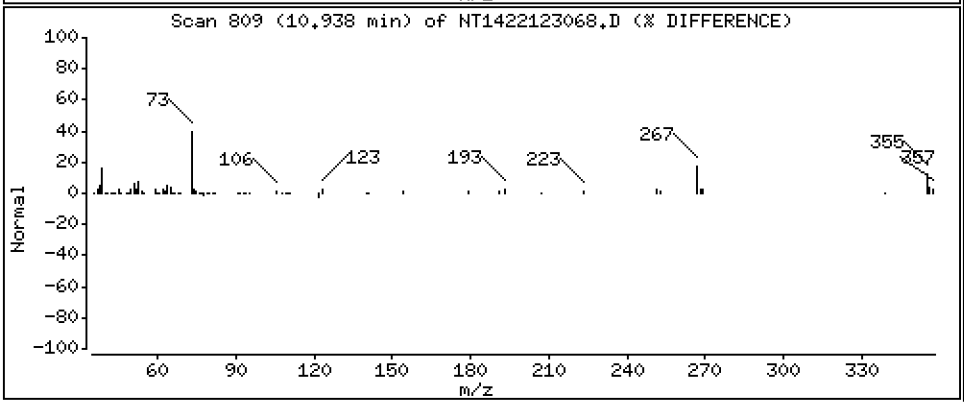












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

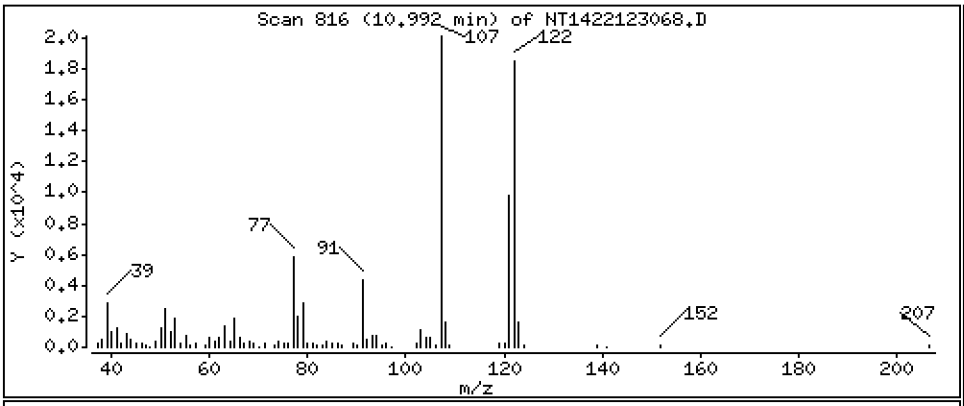
Operator: VTS

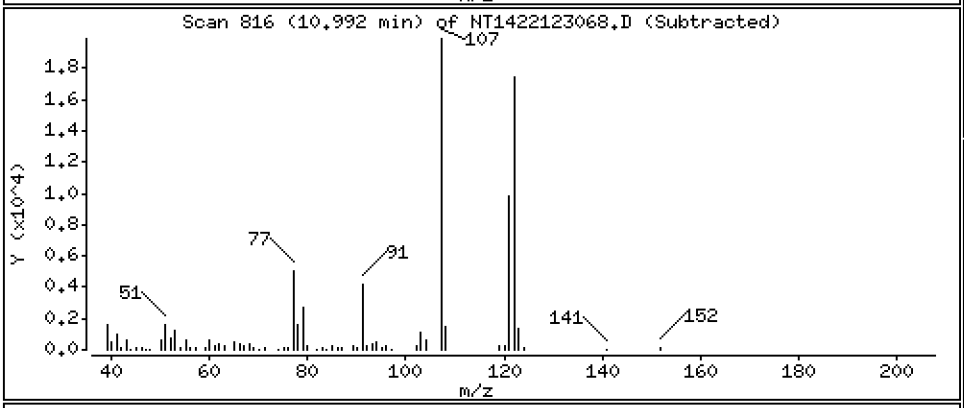
Column phase: ZB-5msi

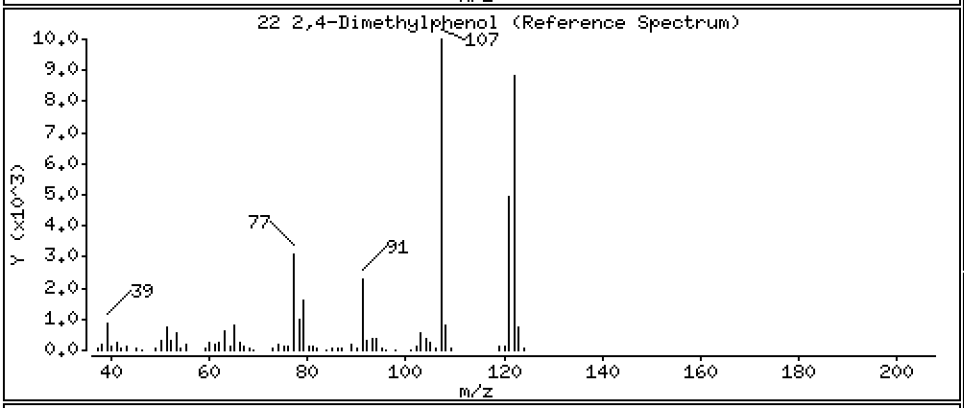
Column diameter: 0.25

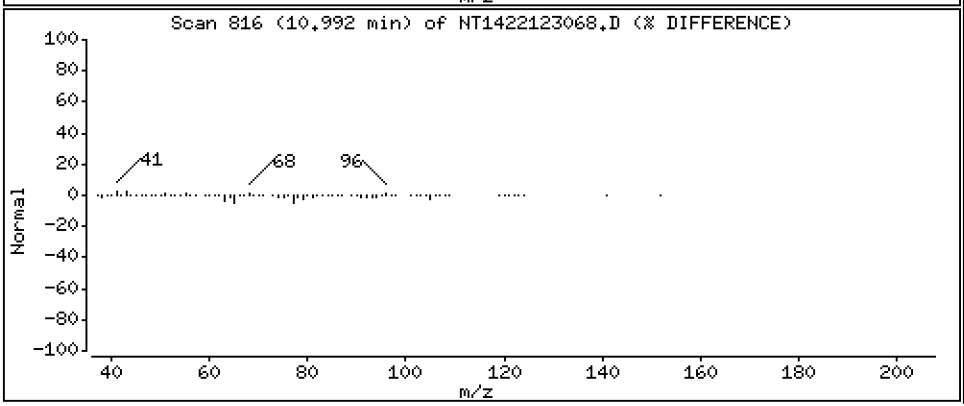
22 2,4-Dimethylphenol

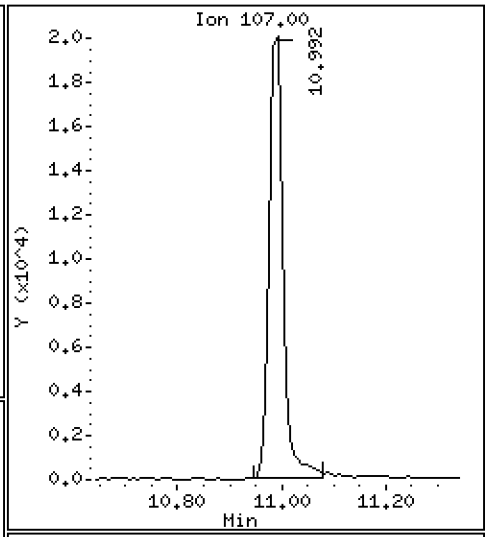
Concentration: 0.9769 ug/mL

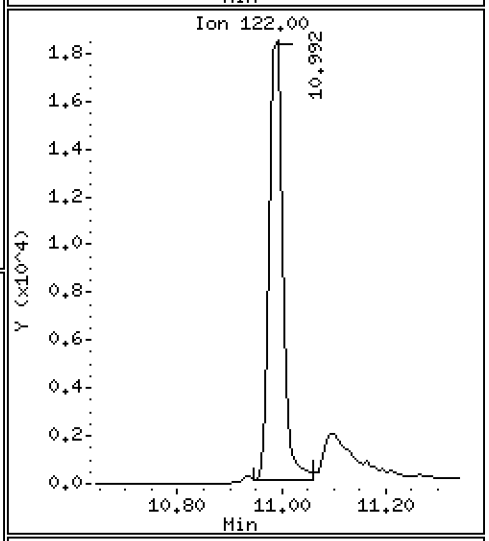


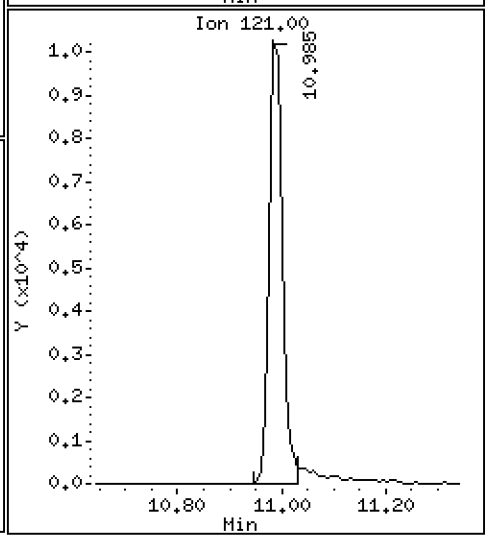












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

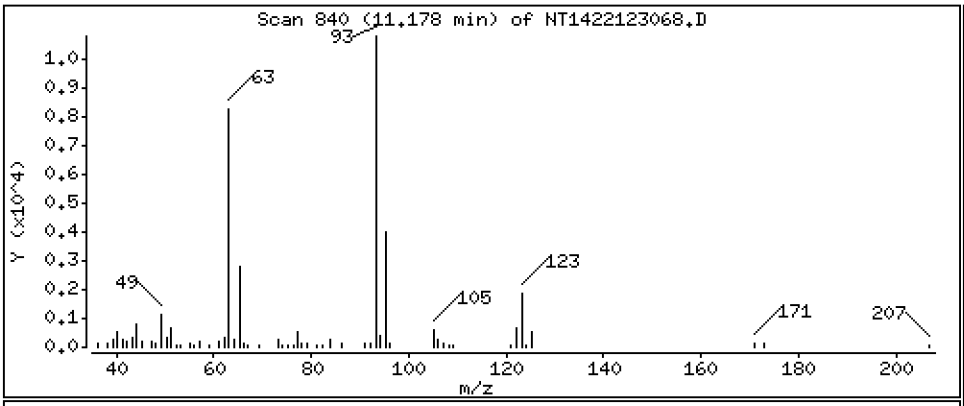
Operator: VTS

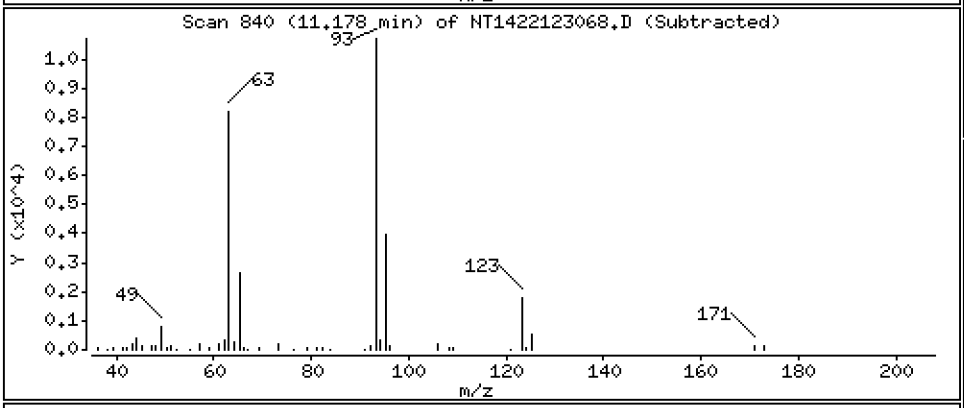
Column phase: ZB-5msi

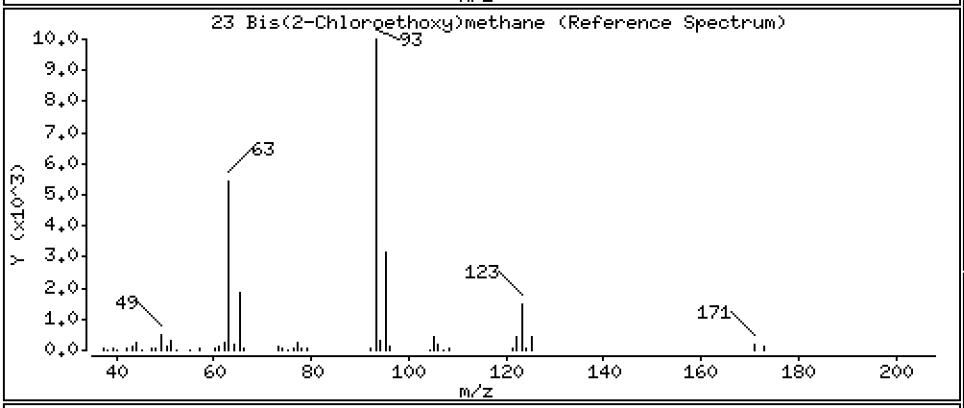
Column diameter: 0.25

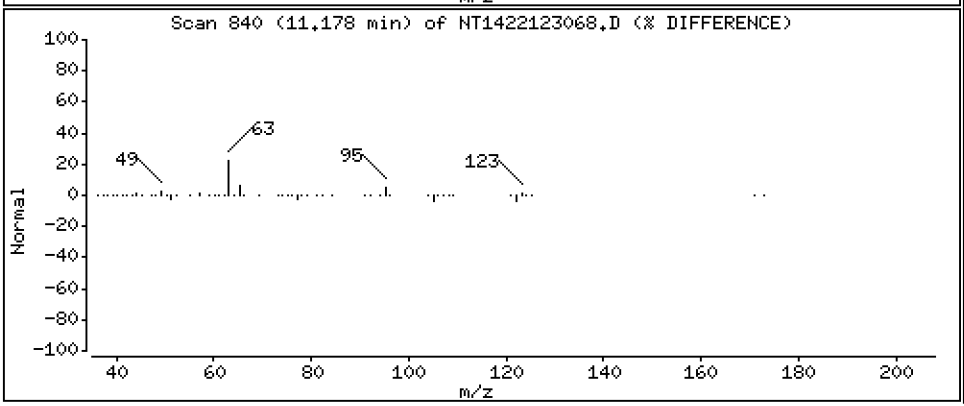
23 Bis(2-Chloroethoxy)methane

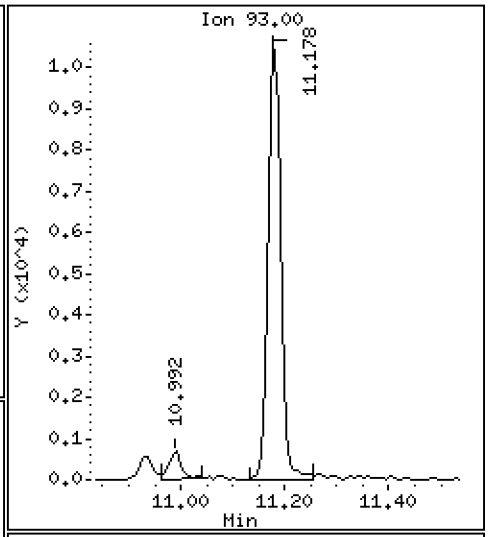
Concentration: 0.4949 ug/mL

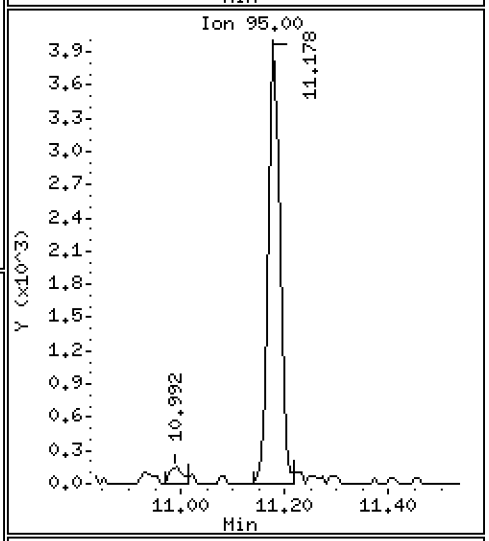


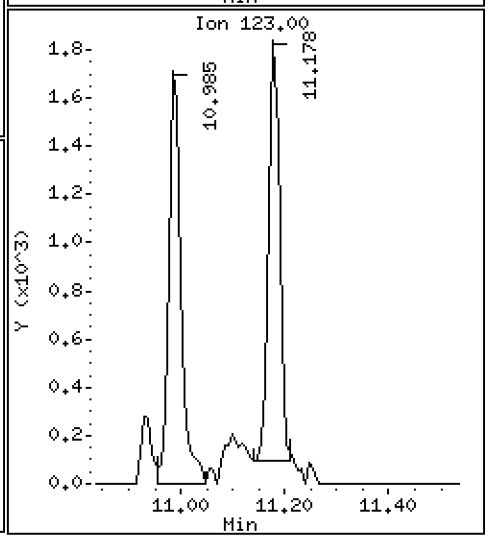












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

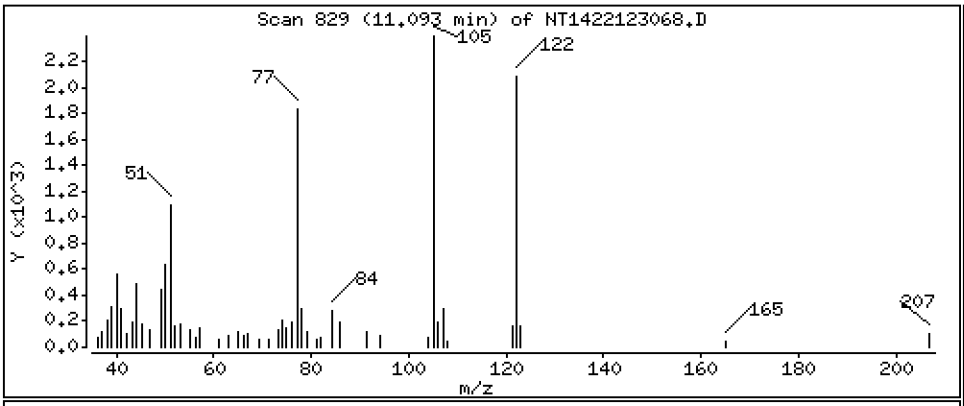
Operator: VTS

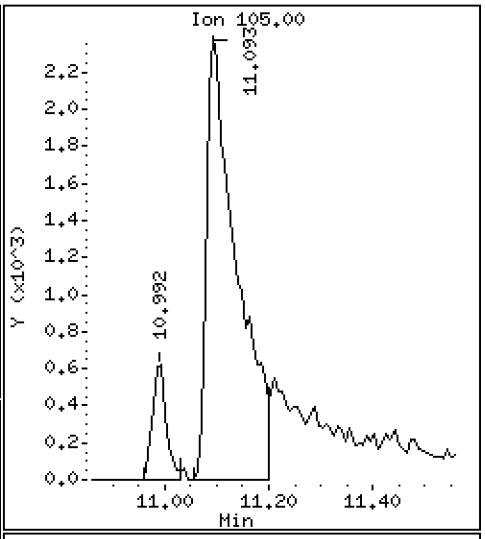
Column phase: ZB-5msi

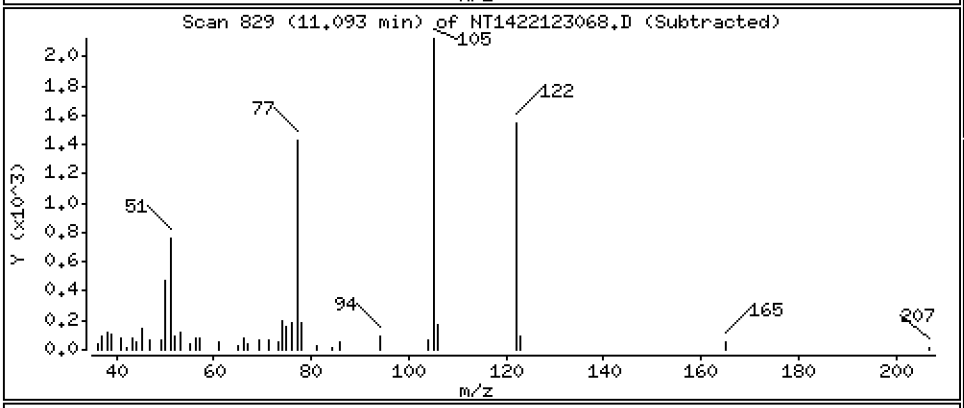
Column diameter: 0.25

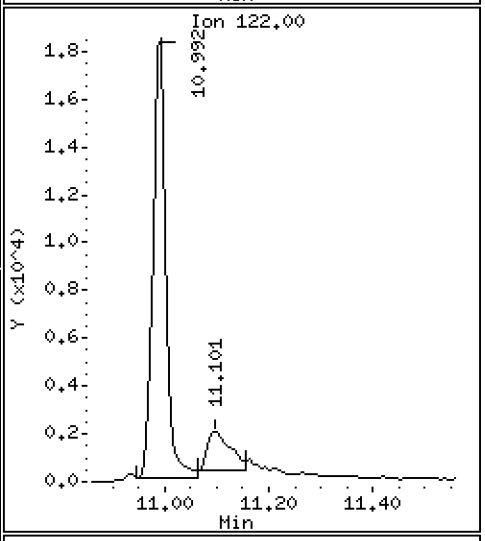
24 Benzoic acid

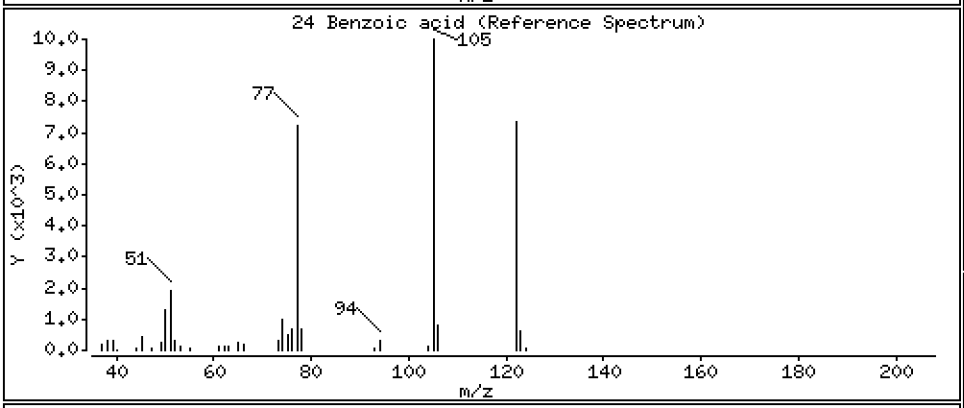
Concentration: 0.4477 ug/mL

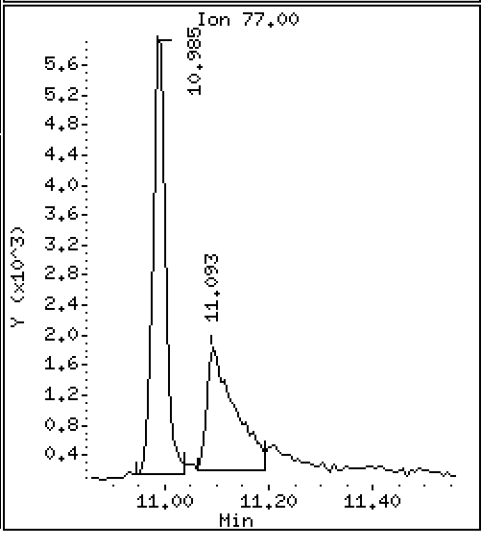


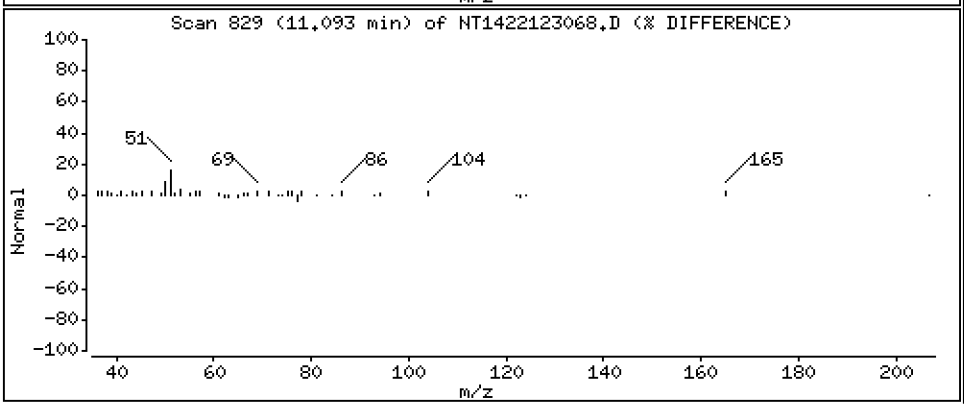












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

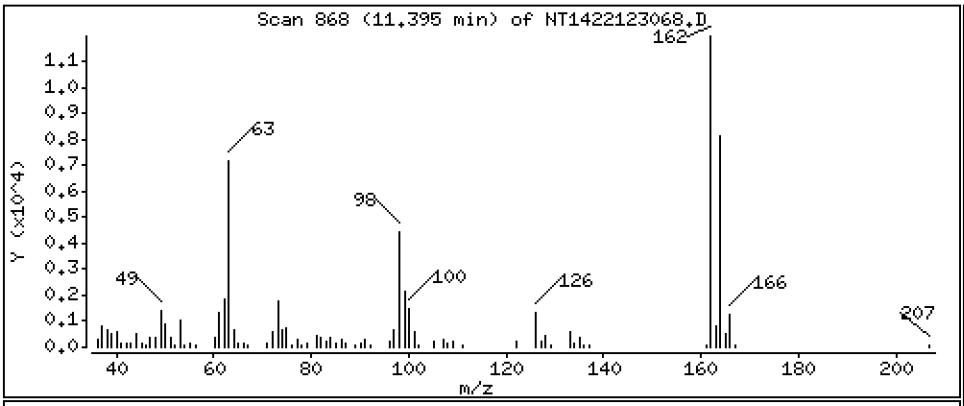
Operator: VTS

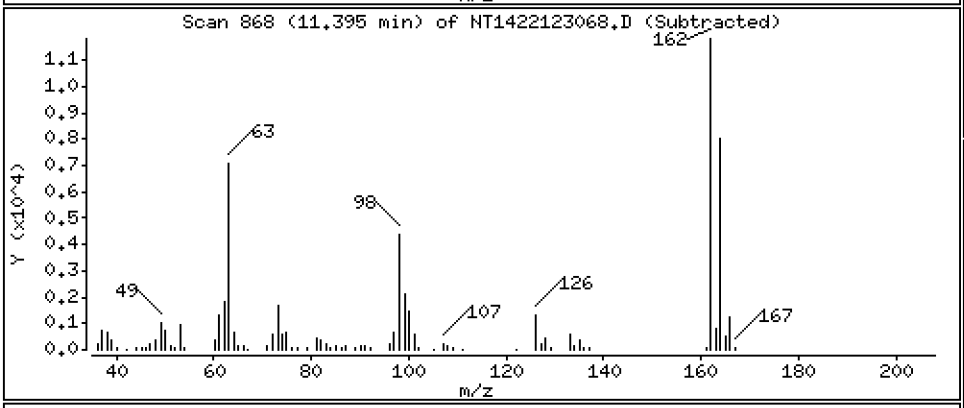
Column phase: ZB-5msi

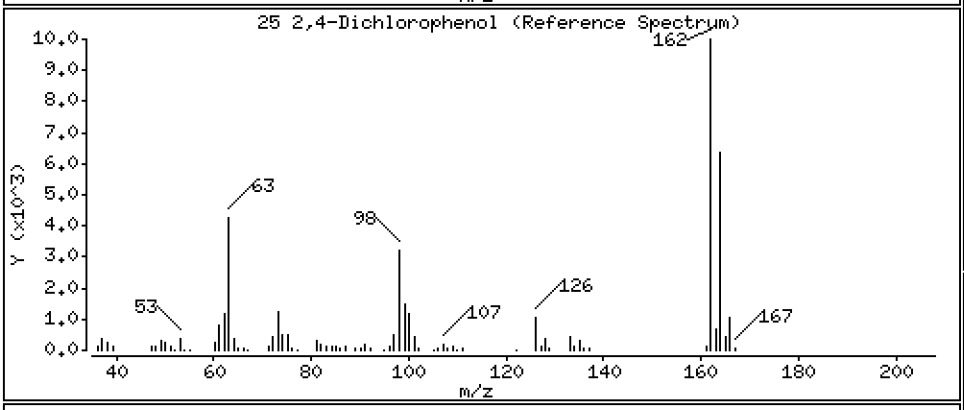
Column diameter: 0.25

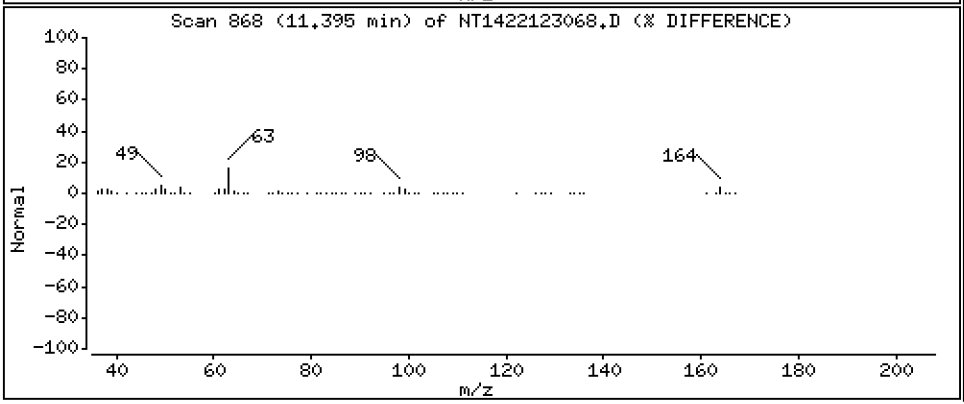
25 2,4-Dichlorophenol

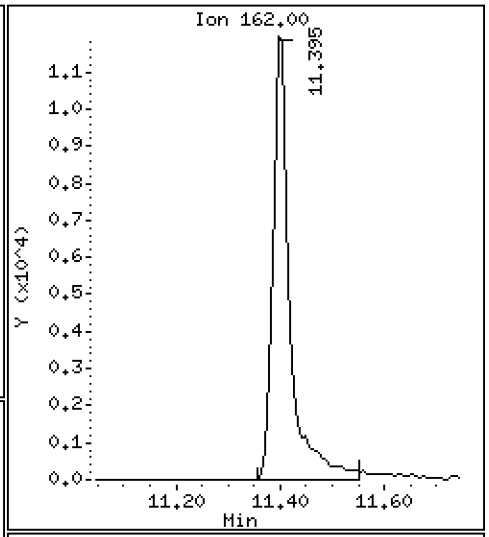
Concentration: 0.9599 ug/mL

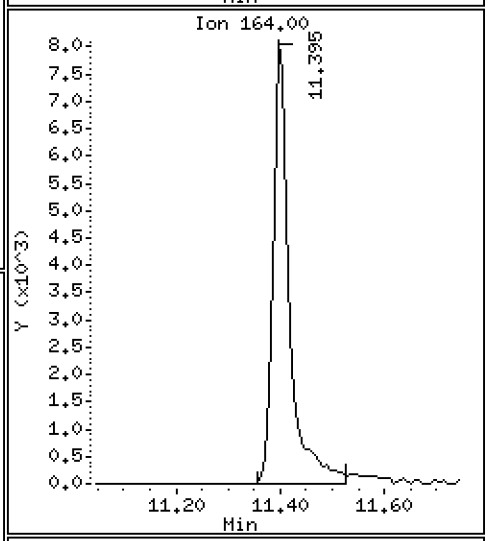


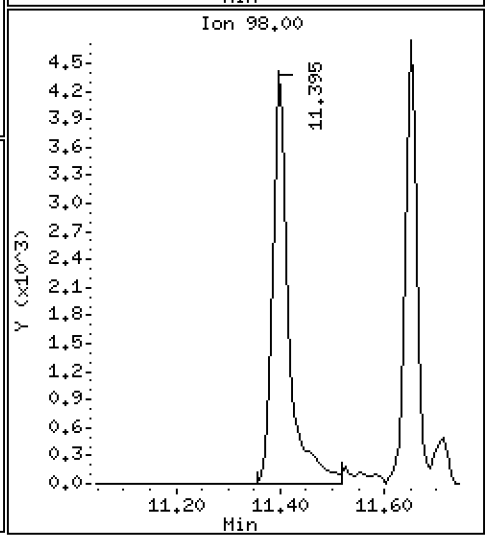












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

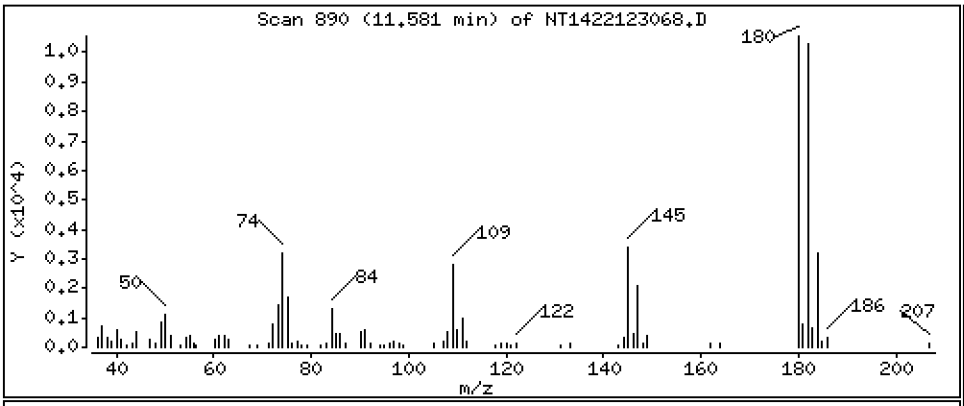
Operator: VTS

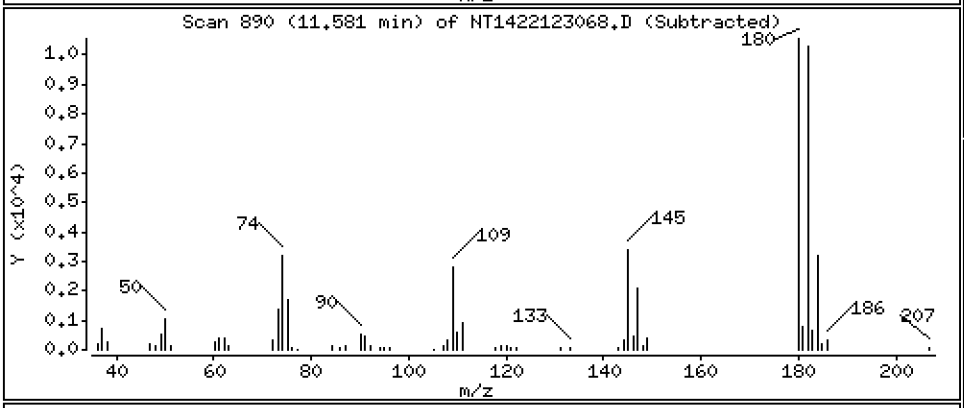
Column phase: ZB-5msi

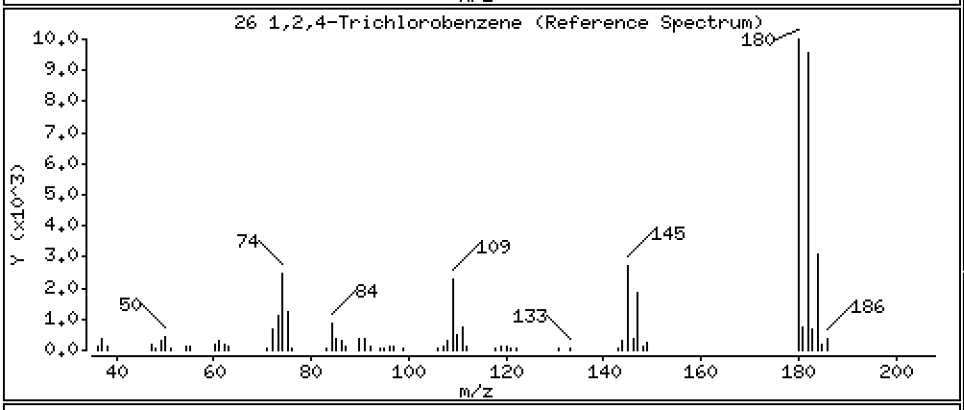
Column diameter: 0.25

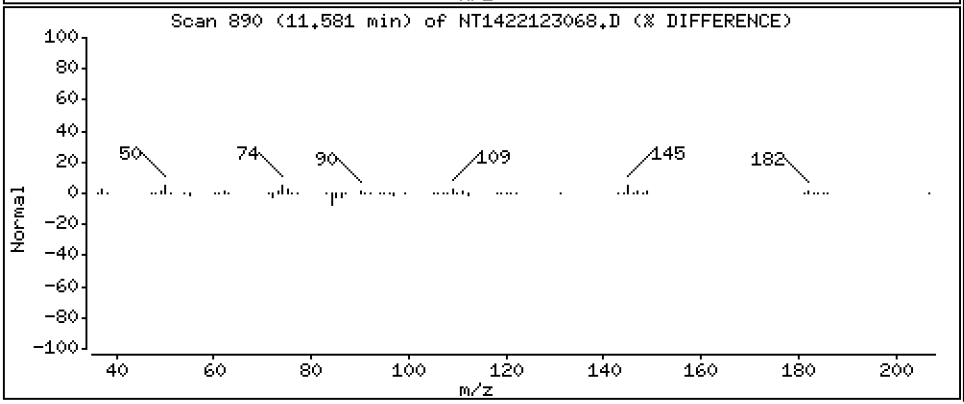
26 1,2,4-Trichlorobenzene

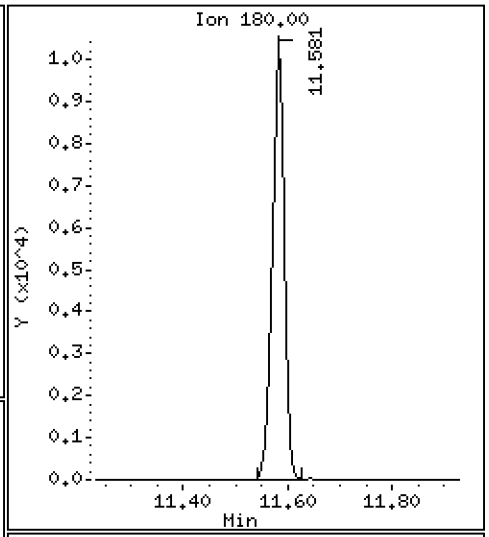
Concentration: 0.4890 ug/mL

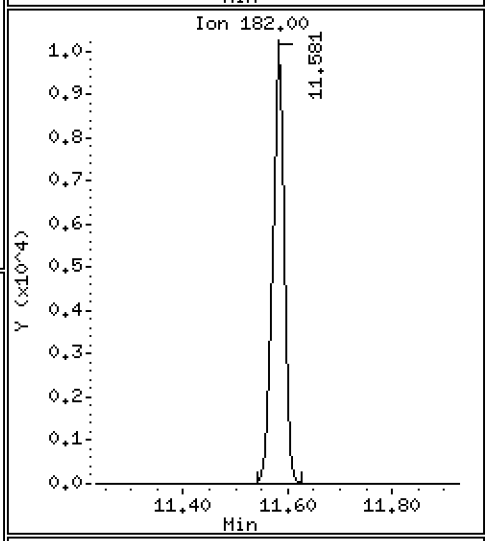


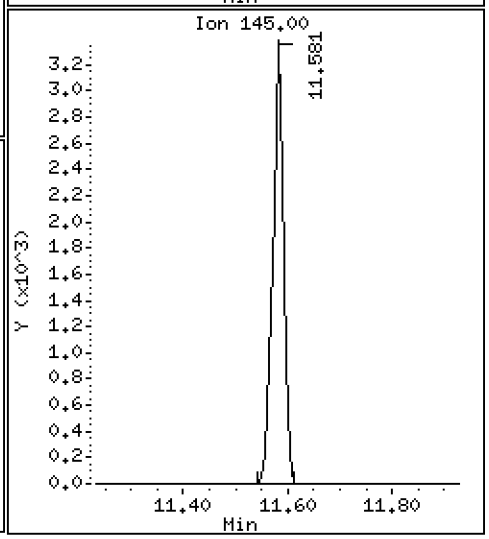












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

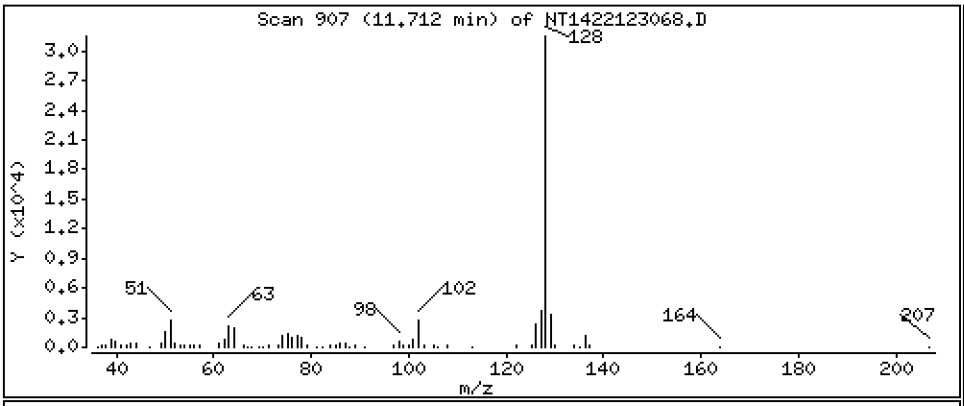
Operator: VTS

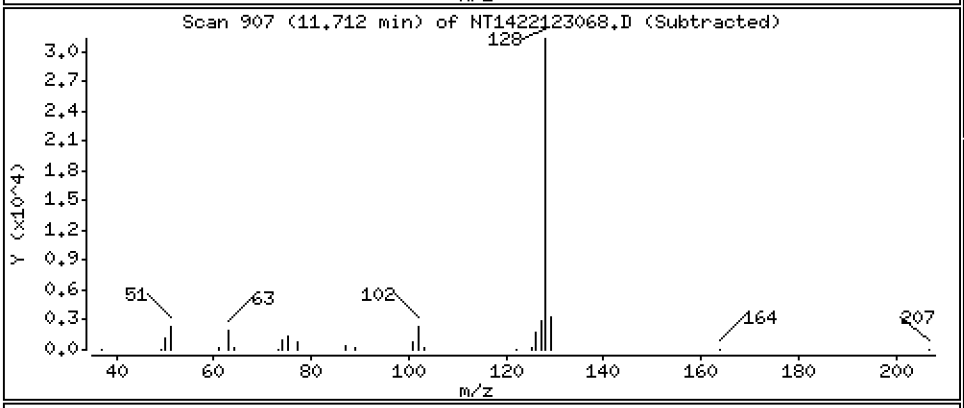
Column phase: ZB-5msi

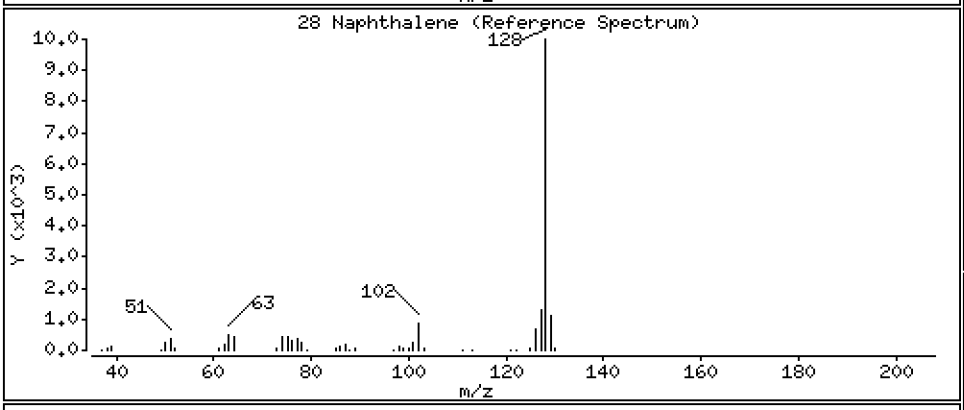
Column diameter: 0.25

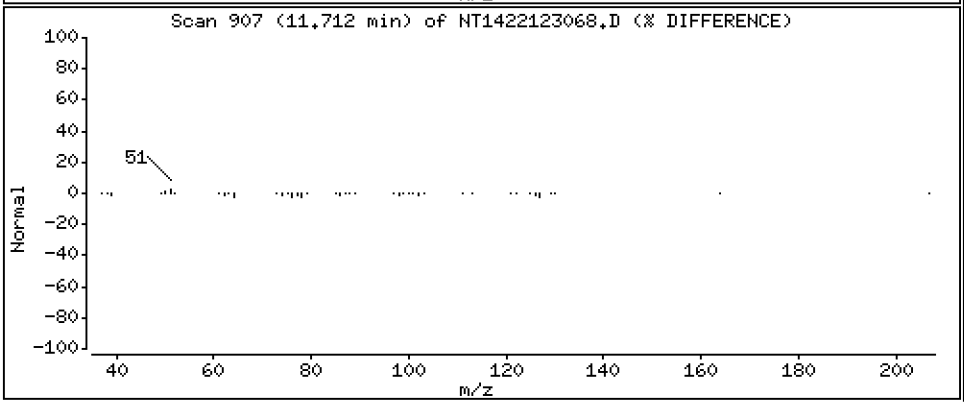
28 Naphthalene

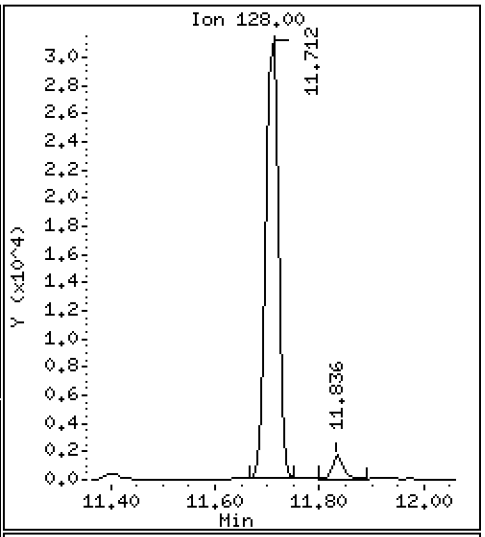
Concentration: 0.4854 ug/mL

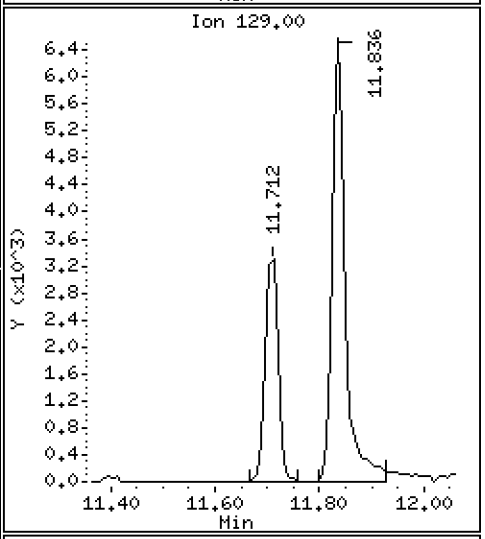


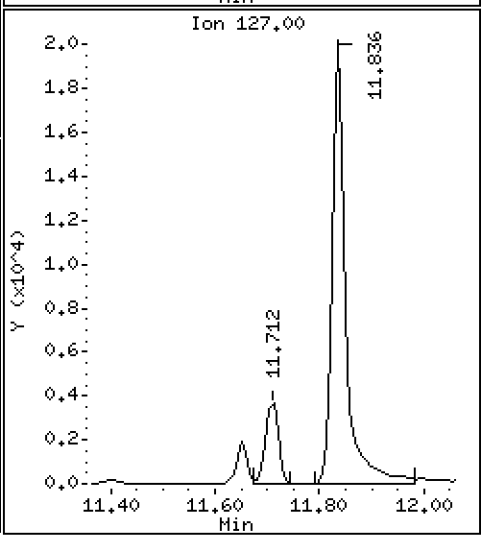












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

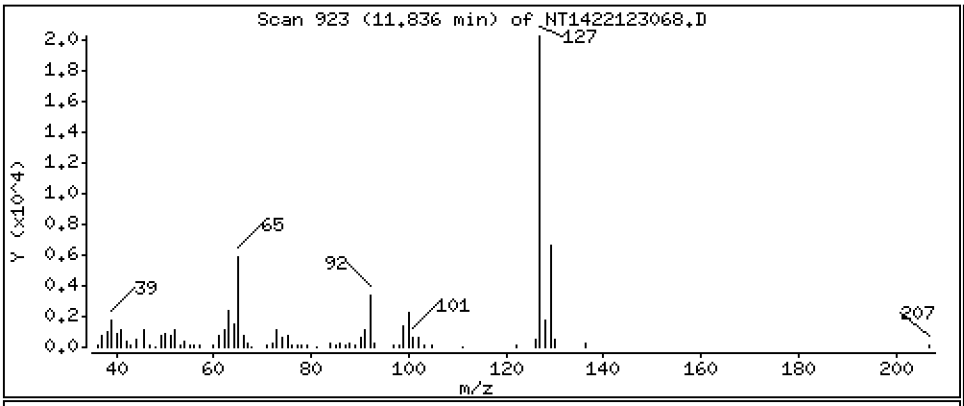
Operator: VTS

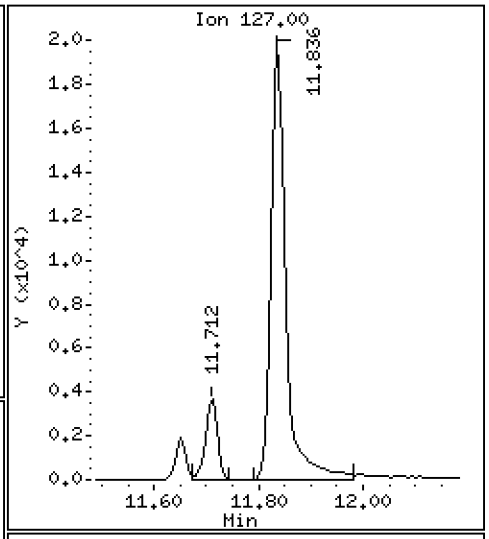
Column phase: ZB-5msi

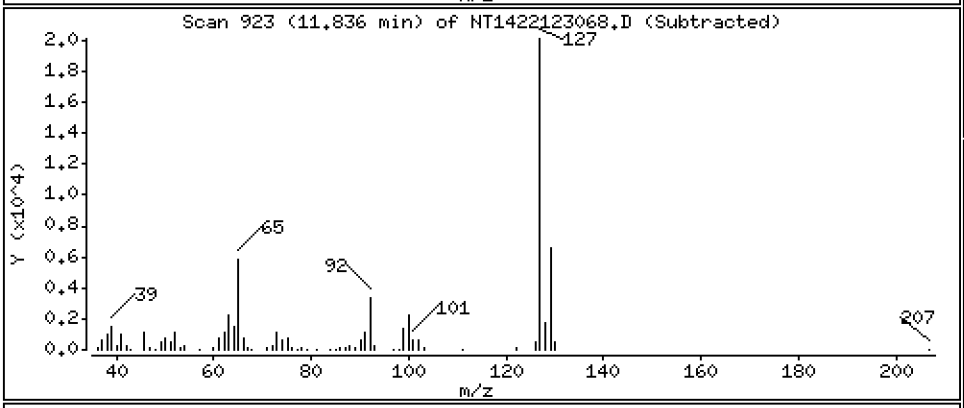
Column diameter: 0.25

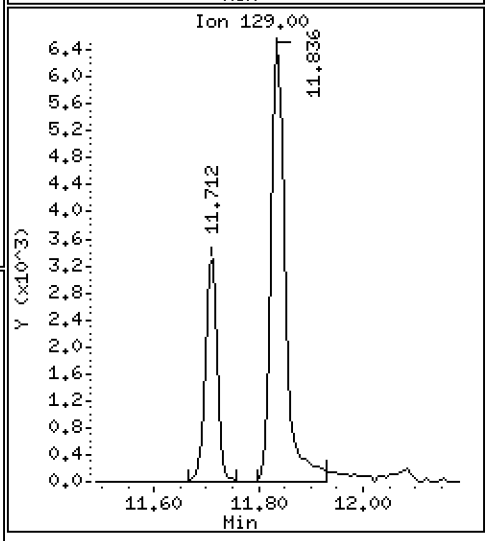
29 4-Chloroaniline

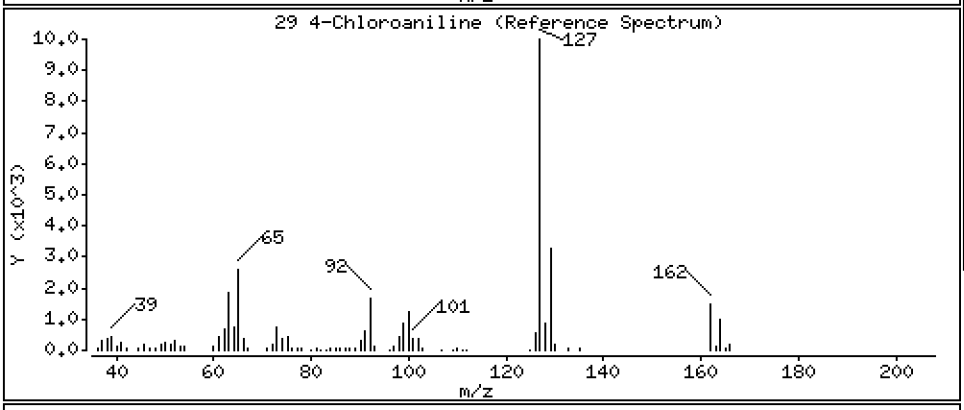
Concentration: 0.8885 ug/mL

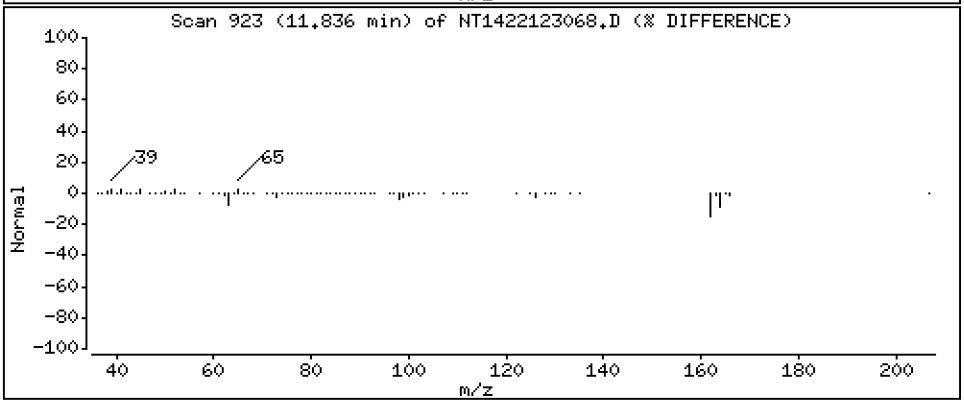












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

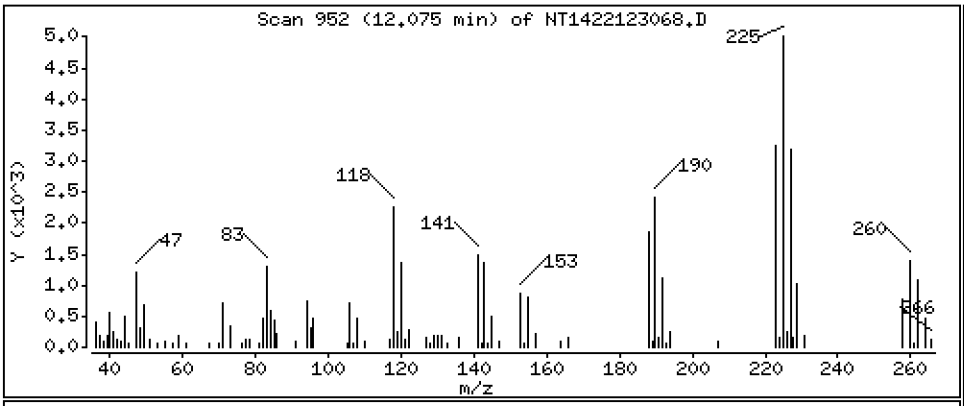
Operator: VTS

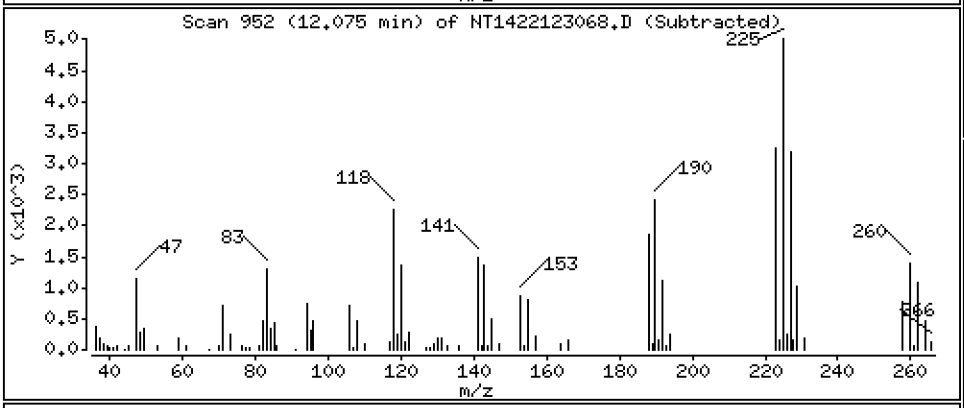
Column phase: ZB-5msi

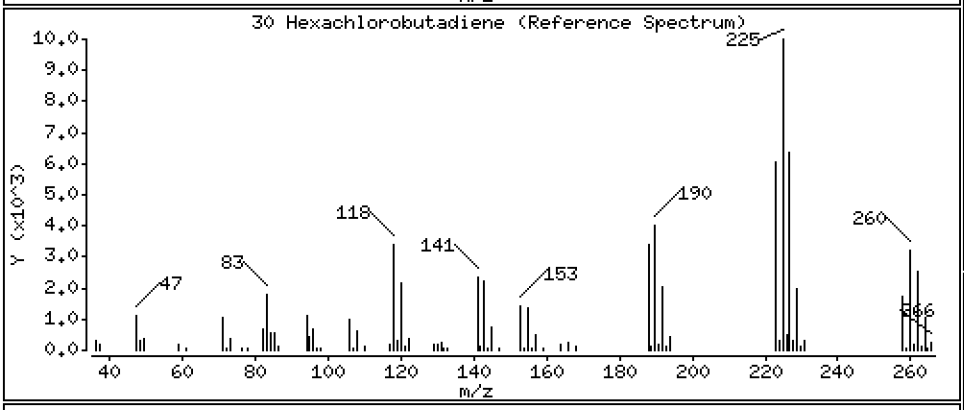
Column diameter: 0.25

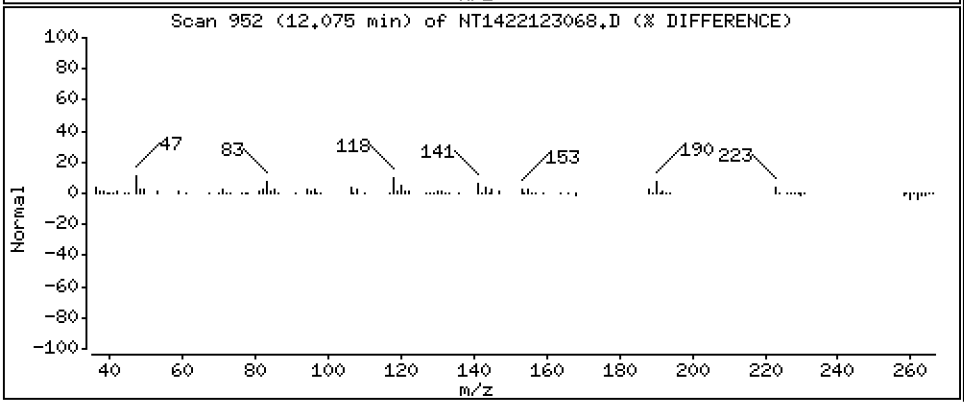
30 Hexachlorobutadiene

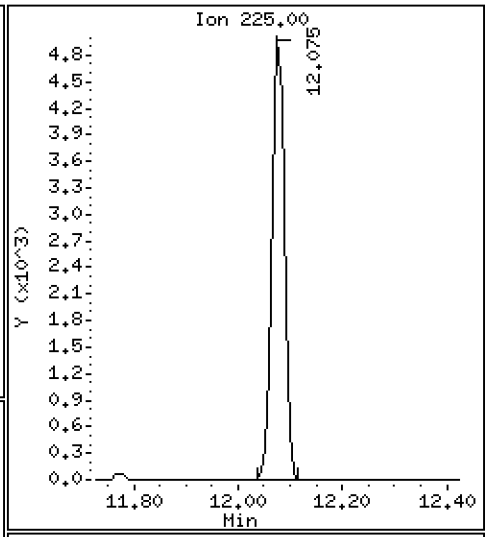
Concentration: 0.4777 ug/mL

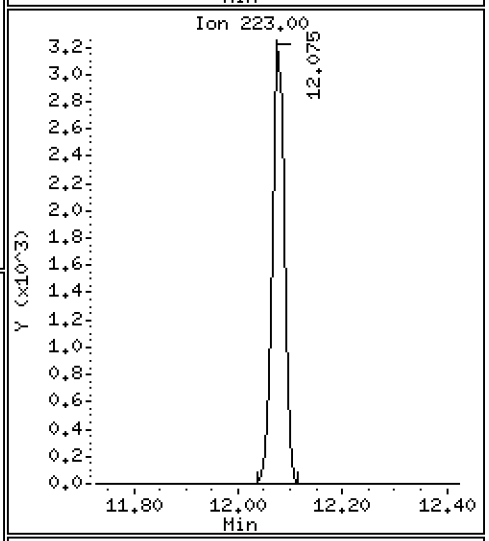


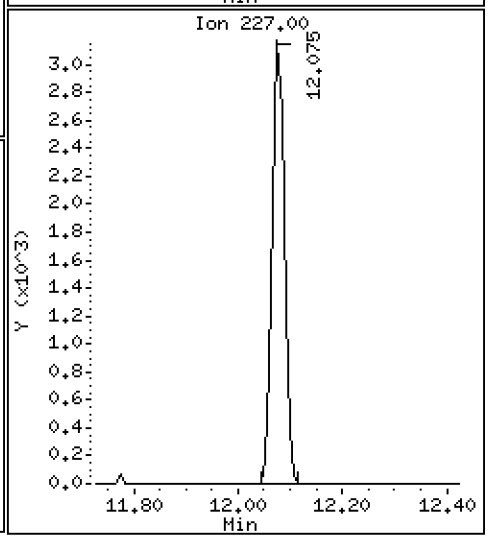












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

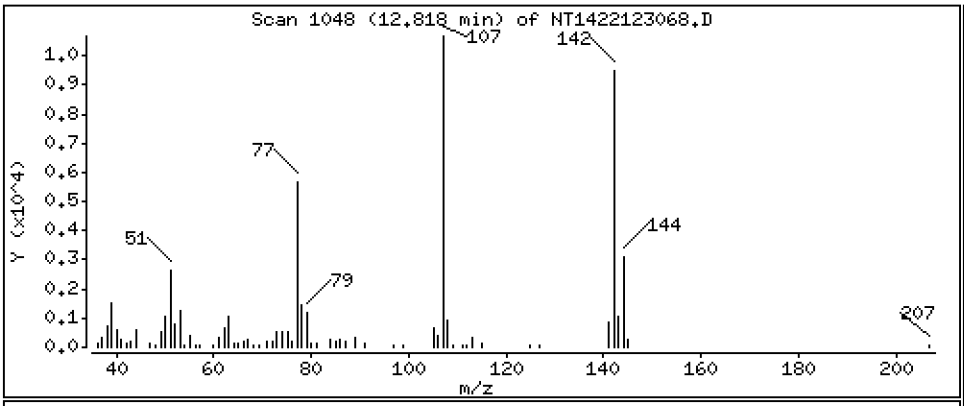
Operator: VTS

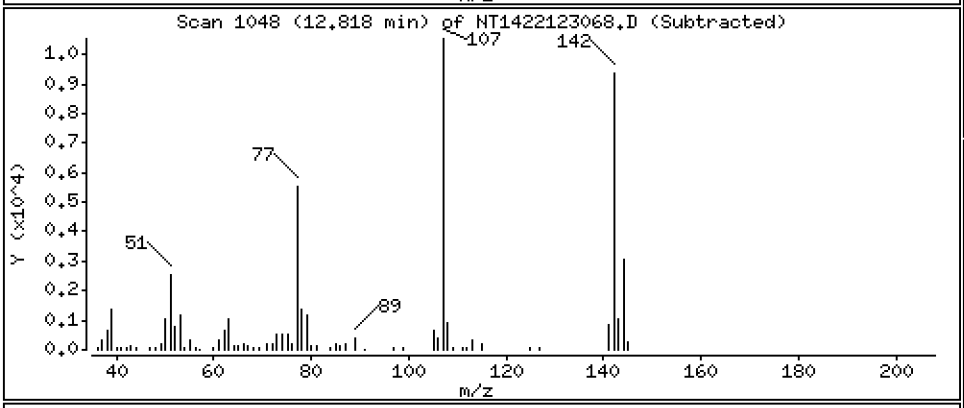
Column phase: ZB-5msi

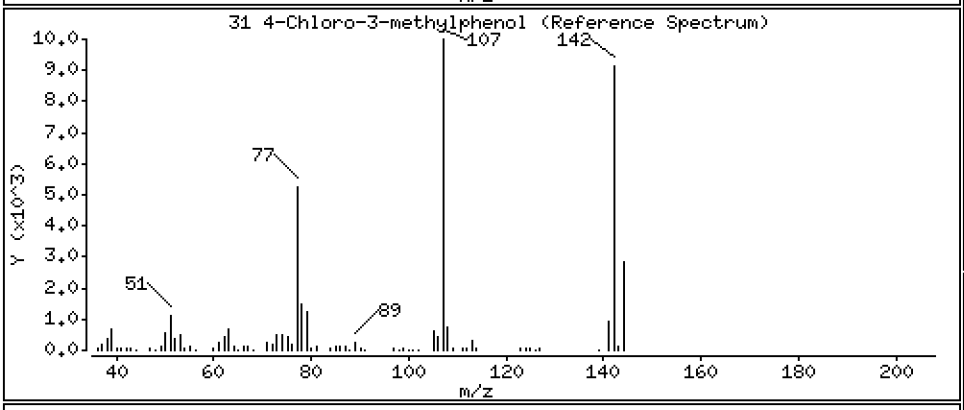
Column diameter: 0.25

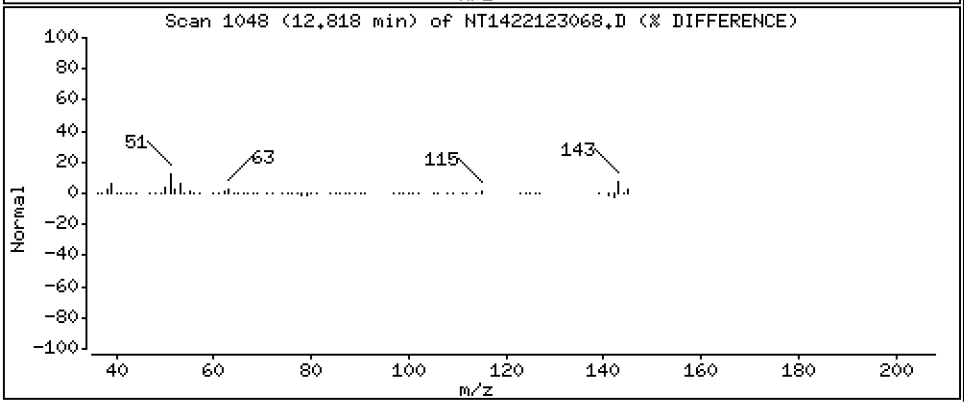
31 4-Chloro-3-methylphenol

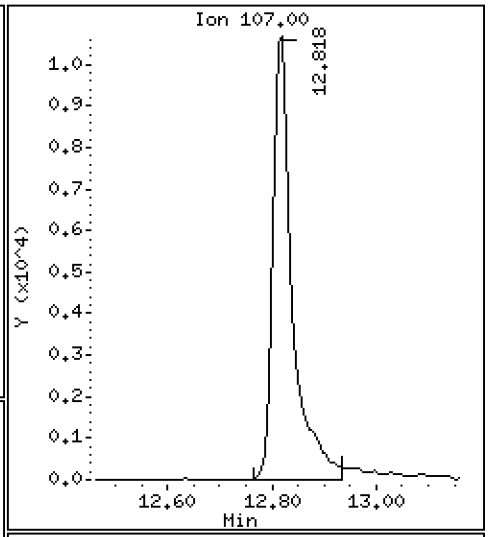
Concentration: 0.9495 ug/mL

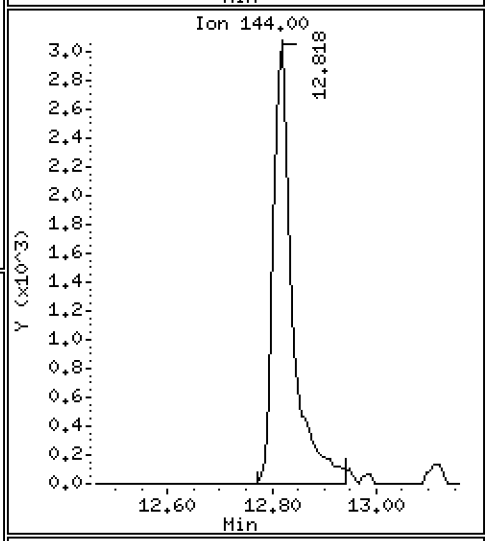


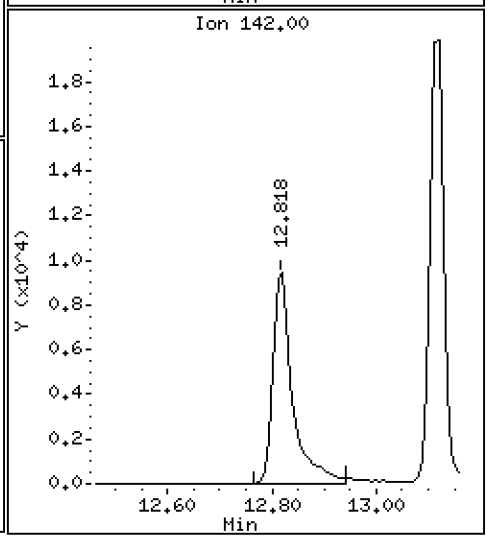












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

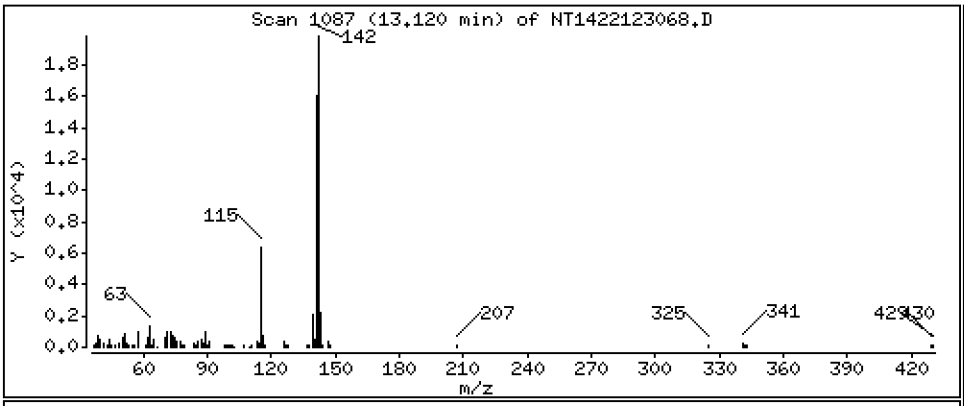
Operator: VTS

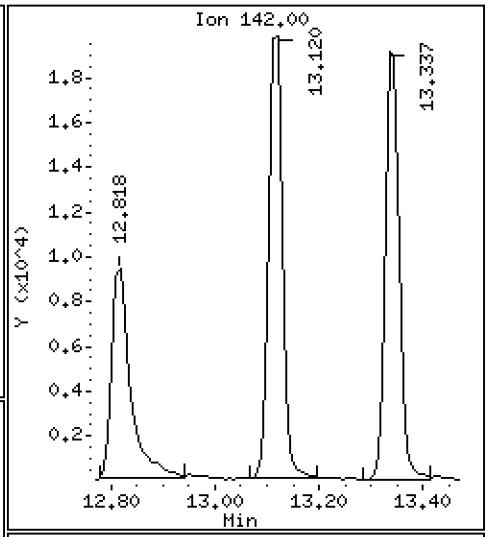
Column phase: ZB-5msi

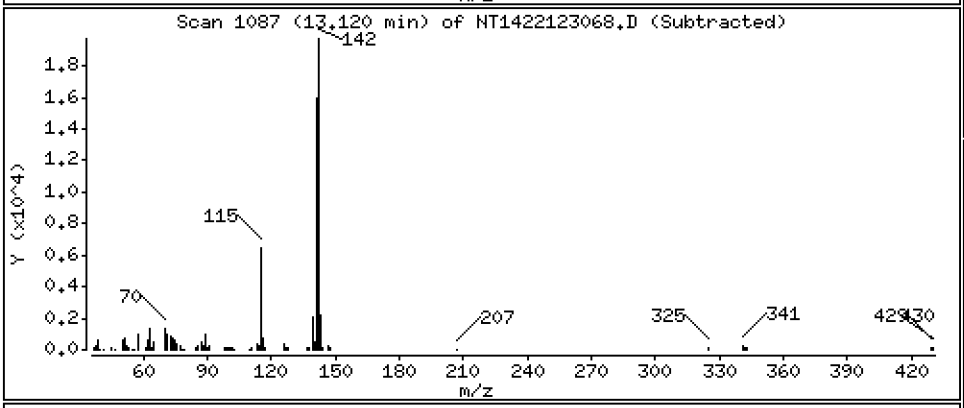
Column diameter: 0.25

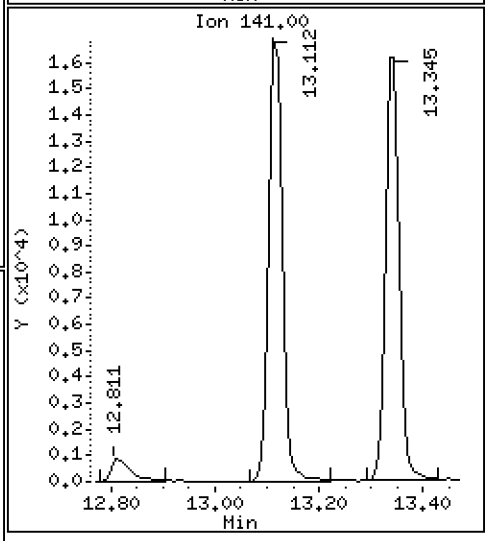
32 2-Methylnaphthalene

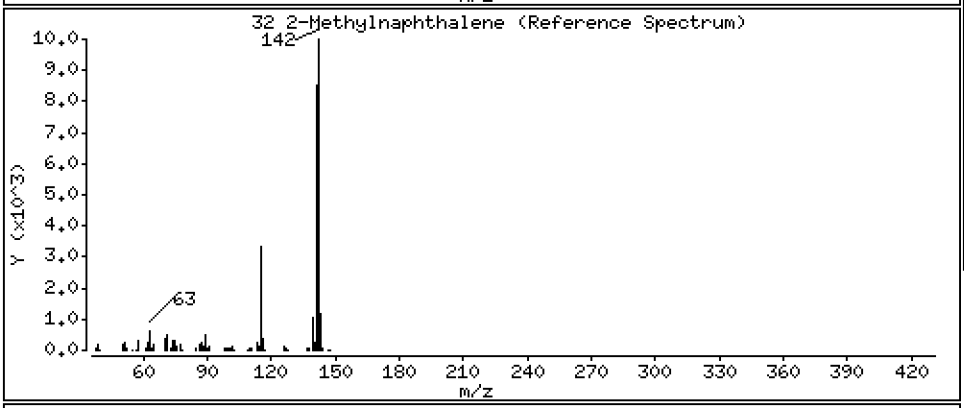
Concentration: 0.4656 ug/mL

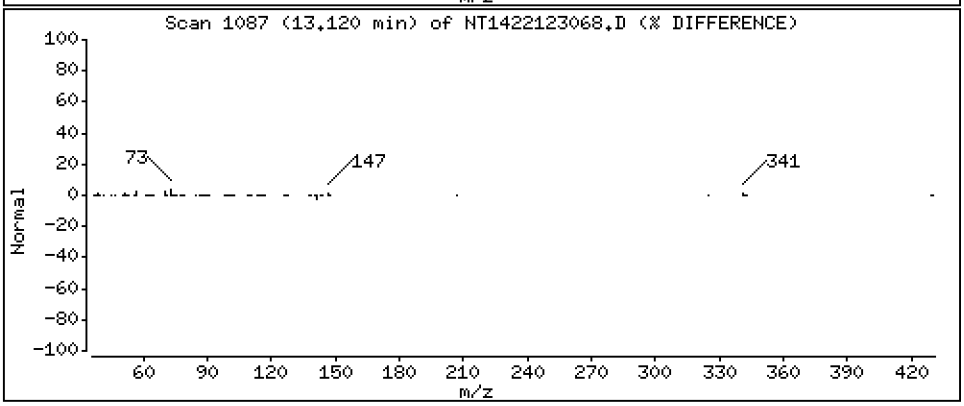












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

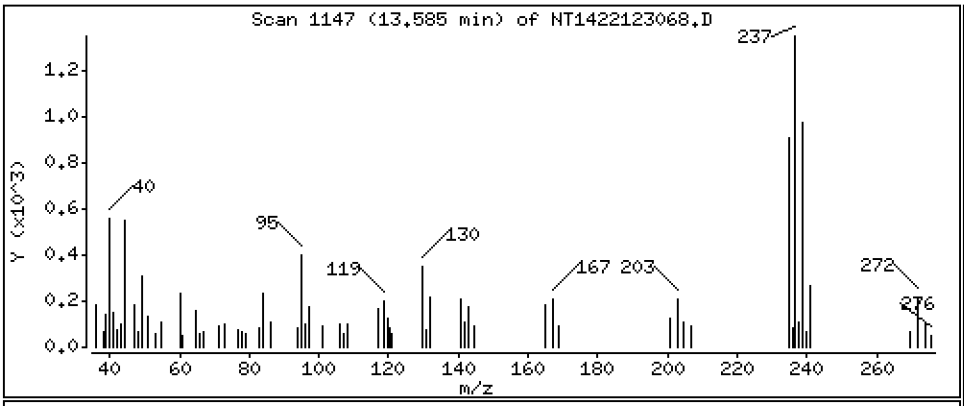
Operator: VTS

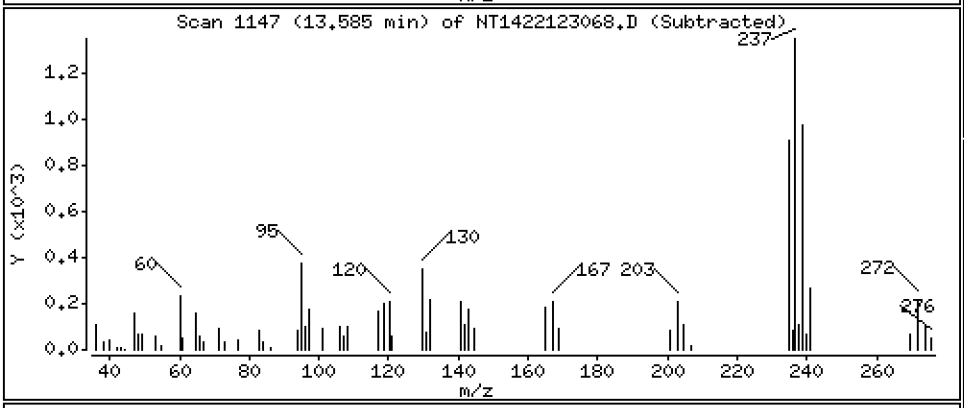
Column phase: ZB-5msi

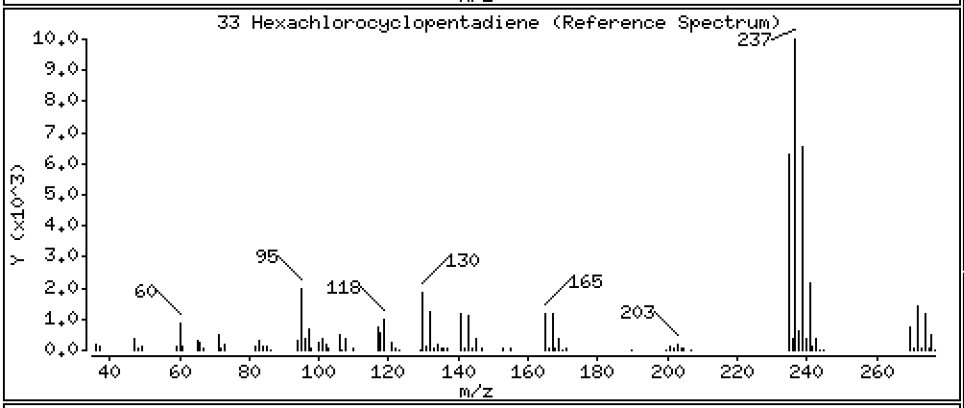
Column diameter: 0.25

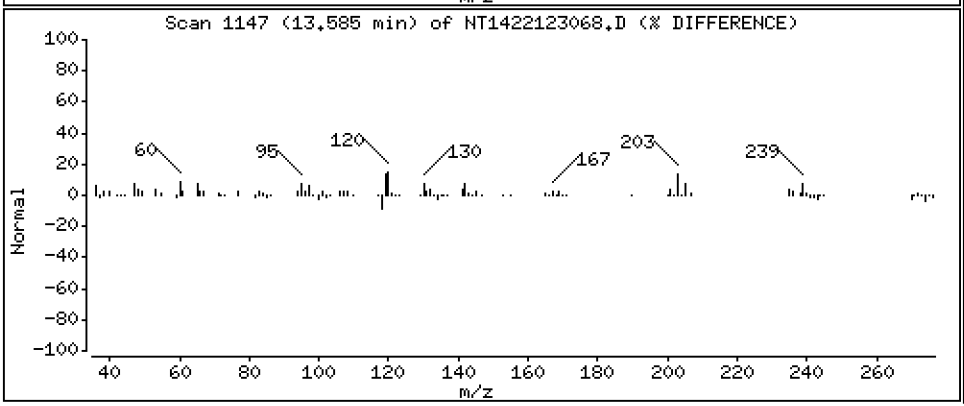
33 Hexachlorocyclopentadiene

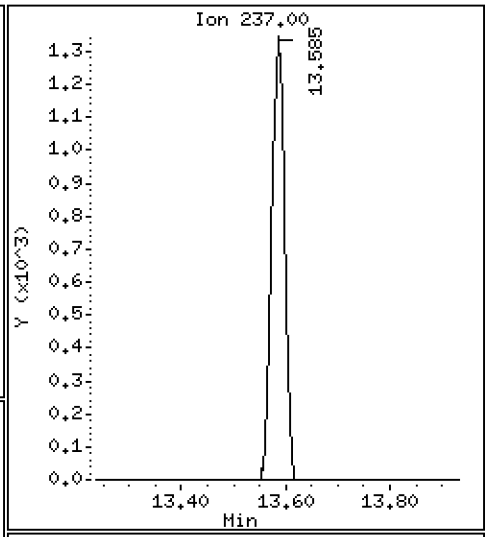
Concentration: 0.1373 ug/mL

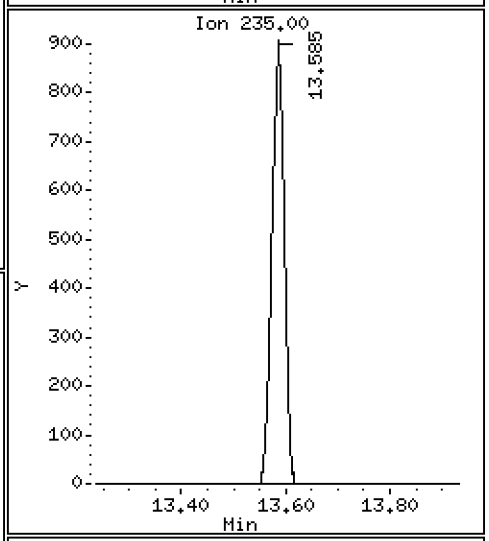


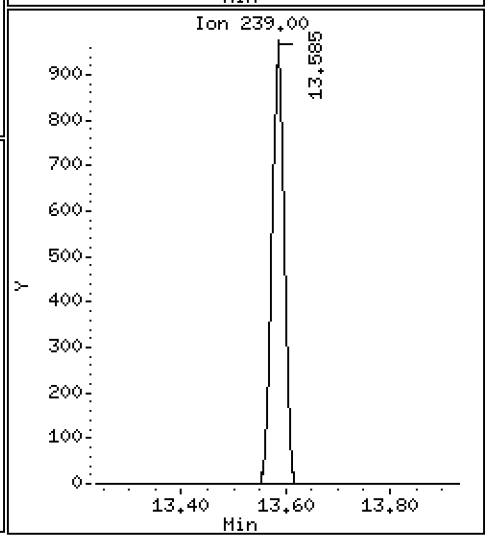












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

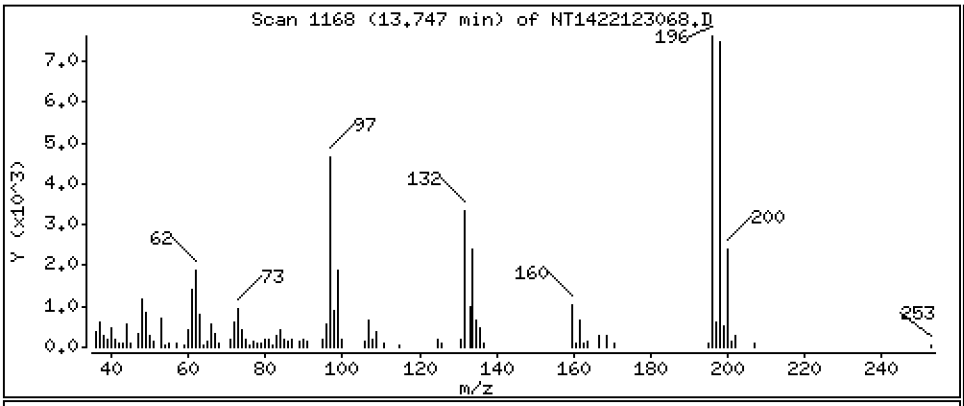
Operator: VTS

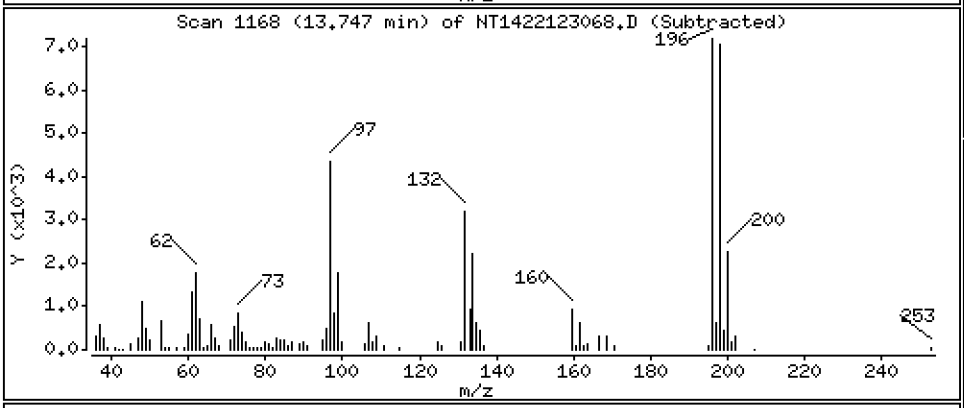
Column phase: ZB-5msi

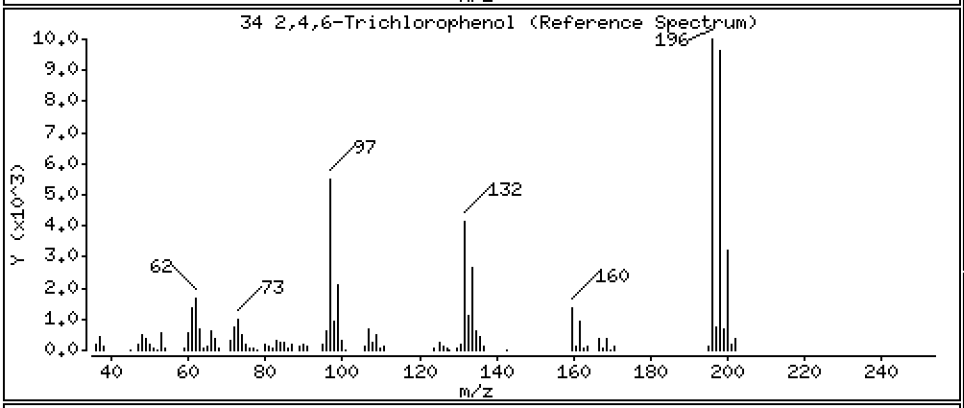
Column diameter: 0.25

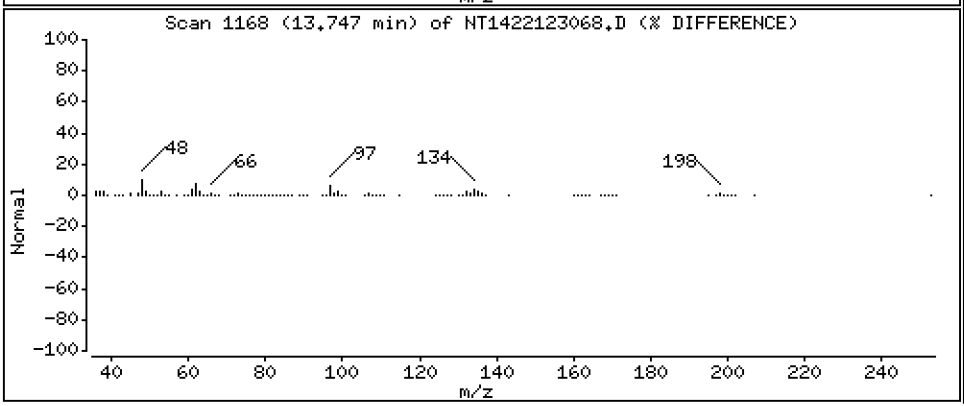
34 2,4,6-Trichlorophenol

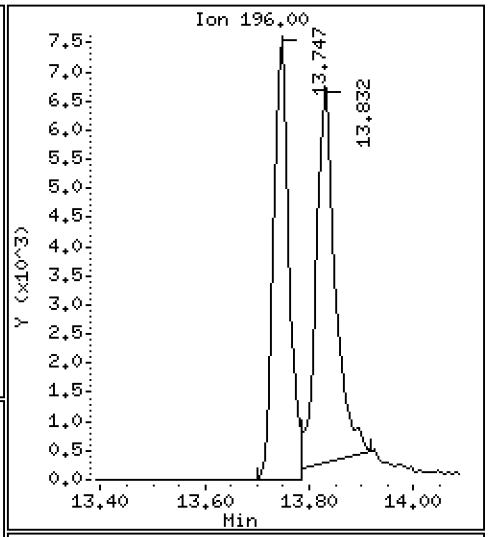
Concentration: 0.8738 ug/mL

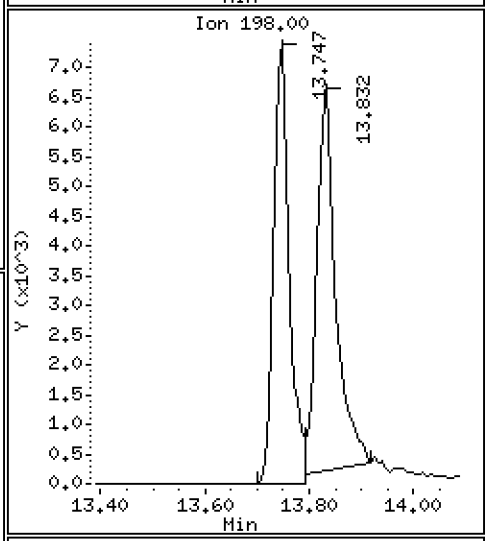


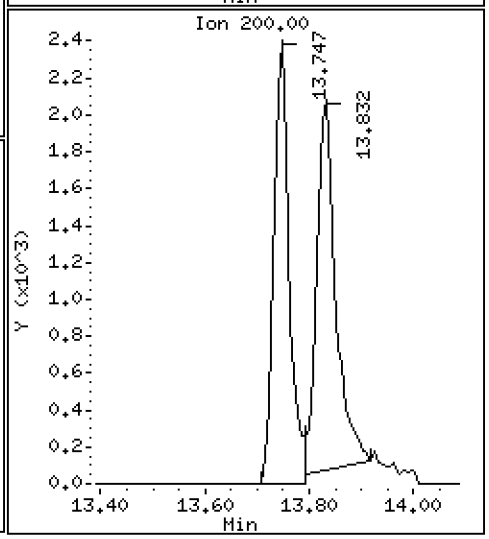












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

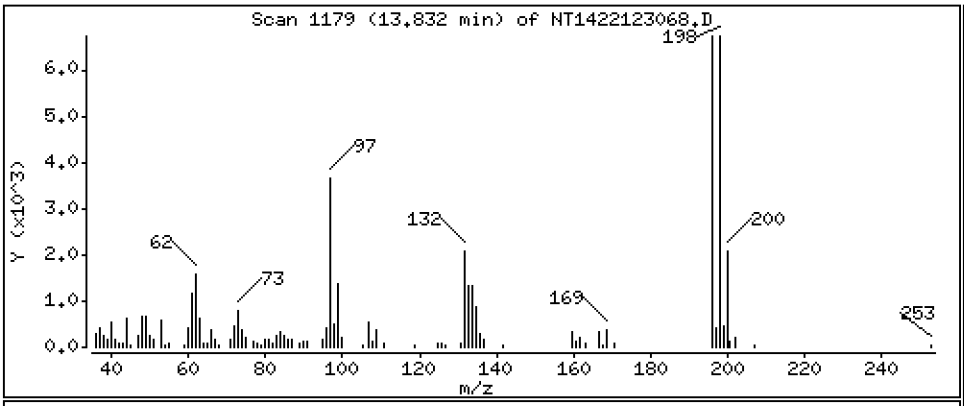
Operator: VTS

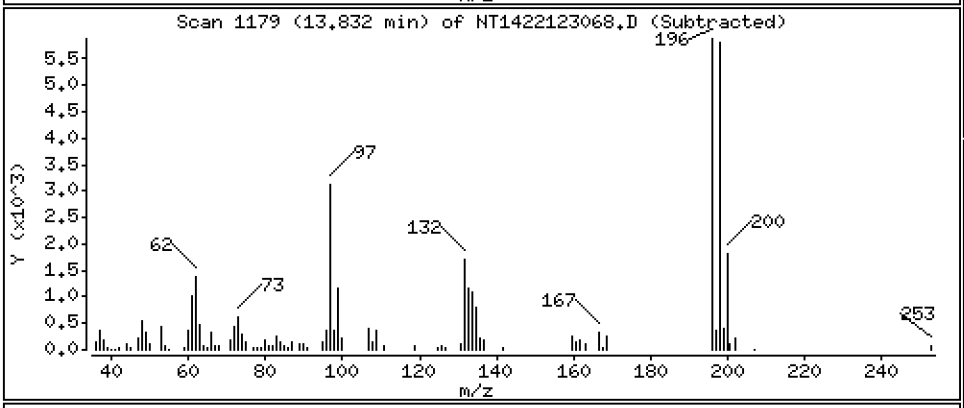
Column phase: ZB-5msi

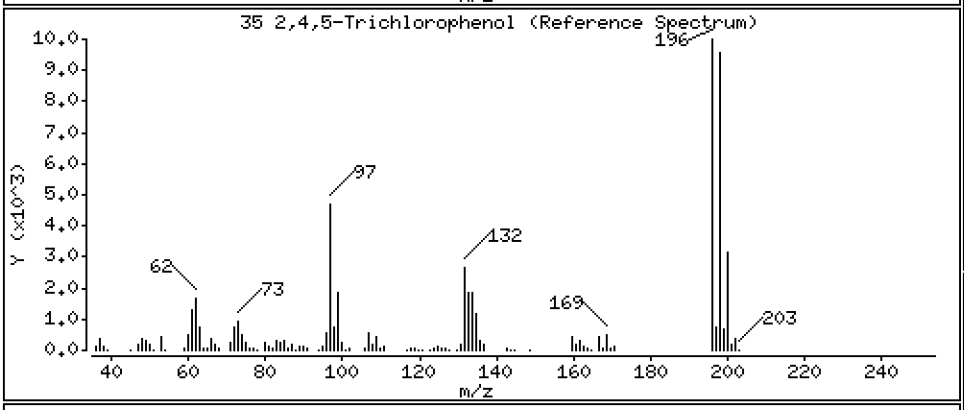
Column diameter: 0.25

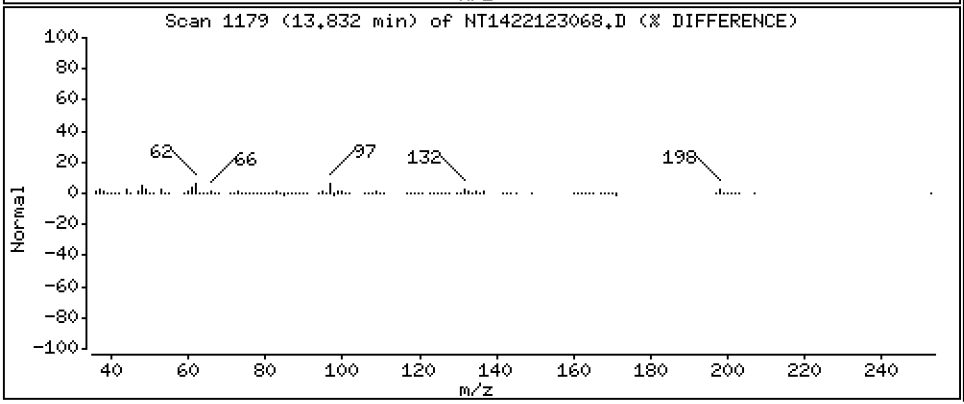
35 2,4,5-Trichlorophenol

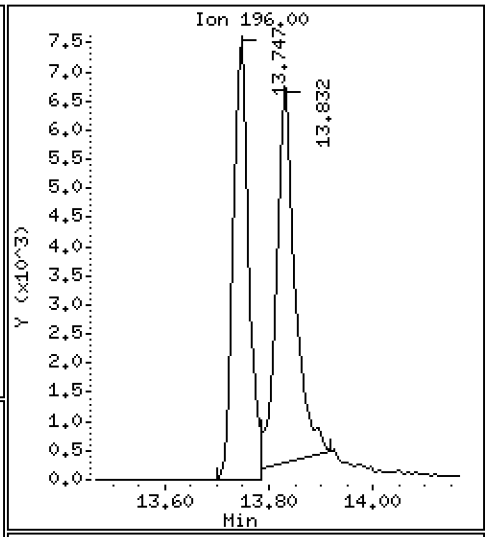
Concentration: 0.8019 ug/mL

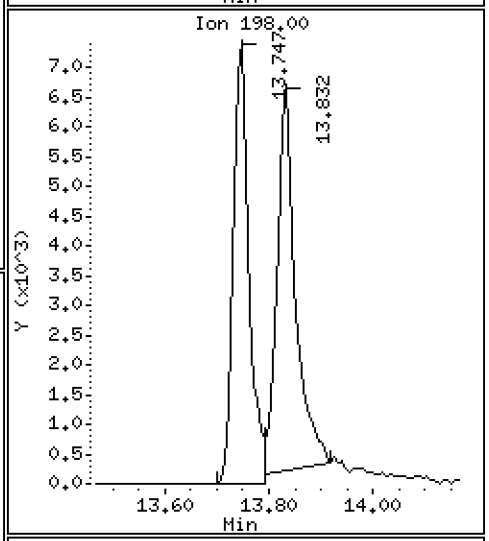


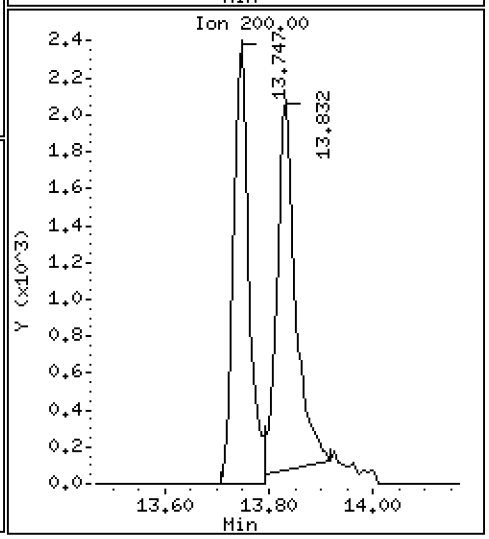












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

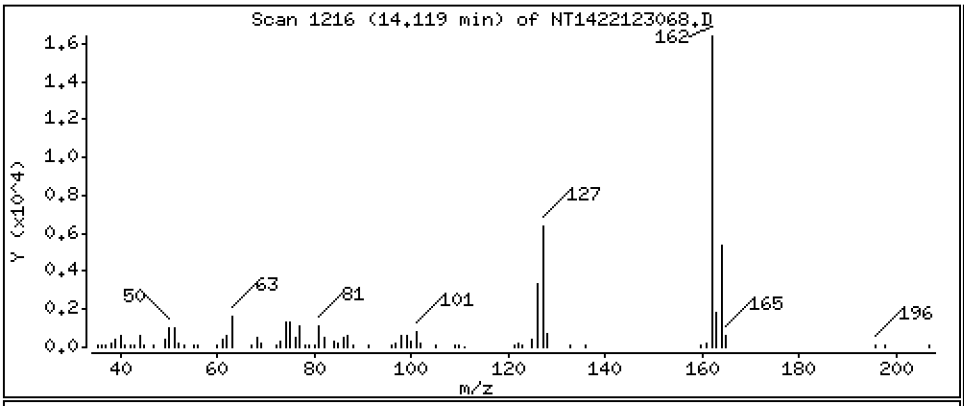
Operator: VTS

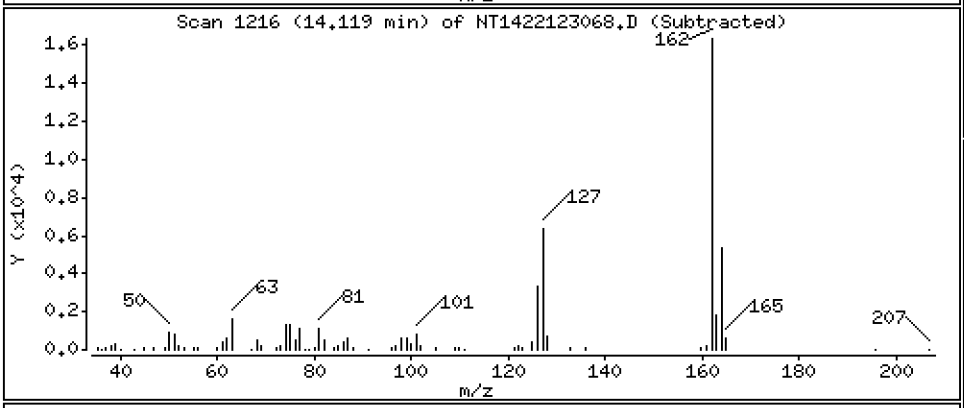
Column phase: ZB-5msi

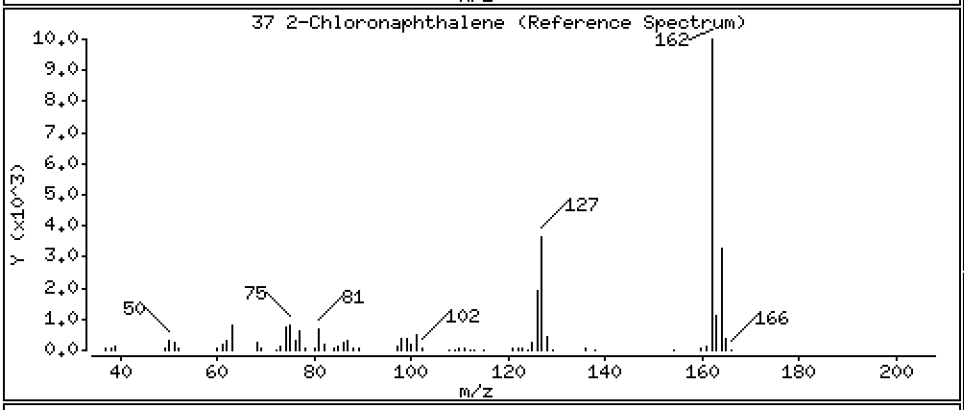
Column diameter: 0.25

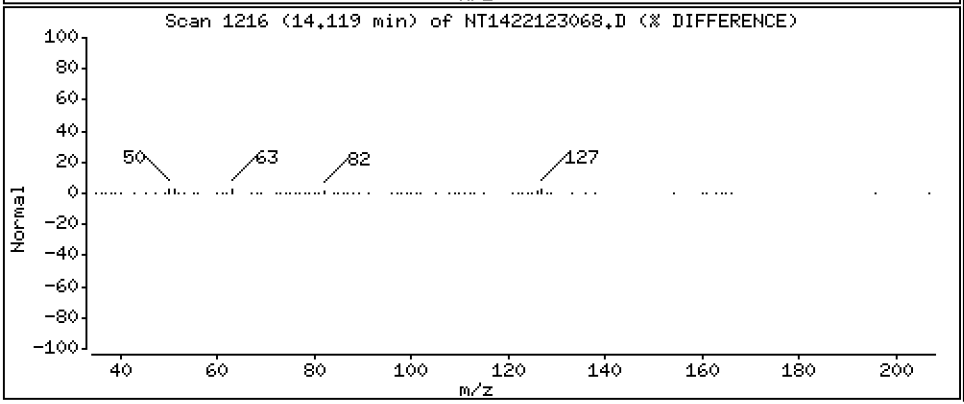
37 2-Chloronaphthalene

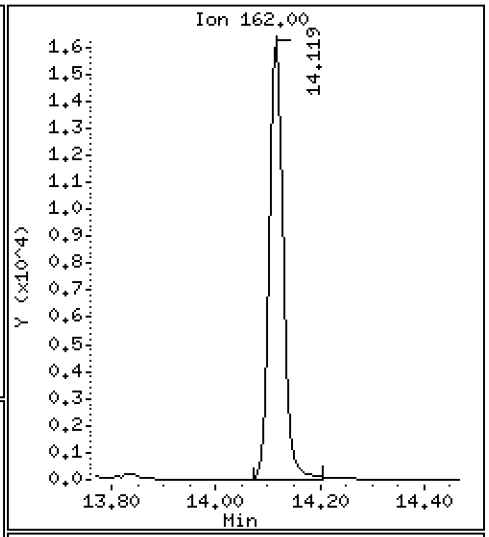
Concentration: 0.4809 ug/mL

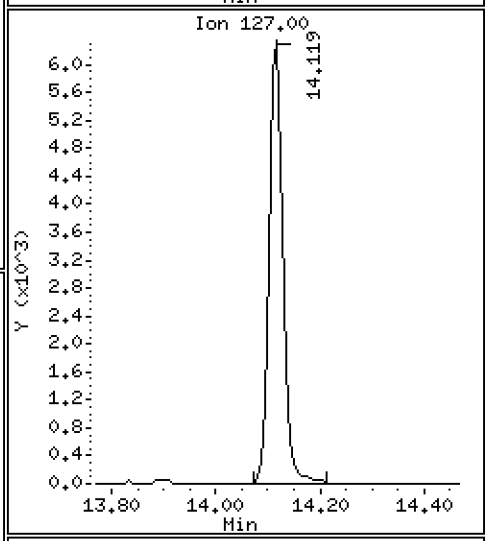


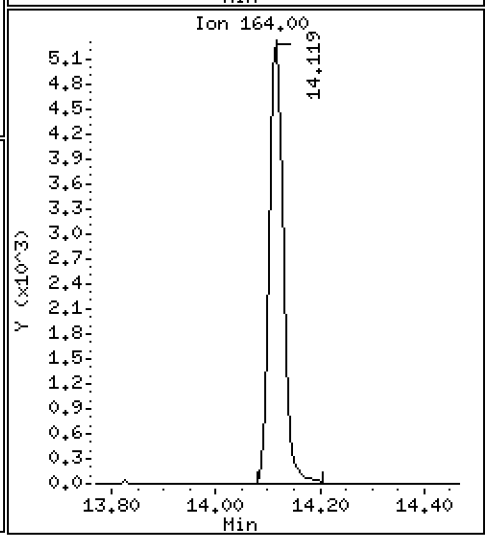












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

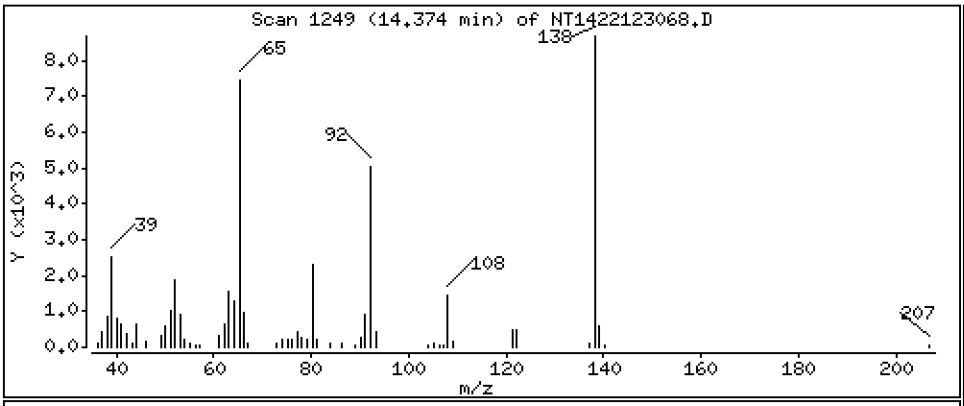
Operator: VTS

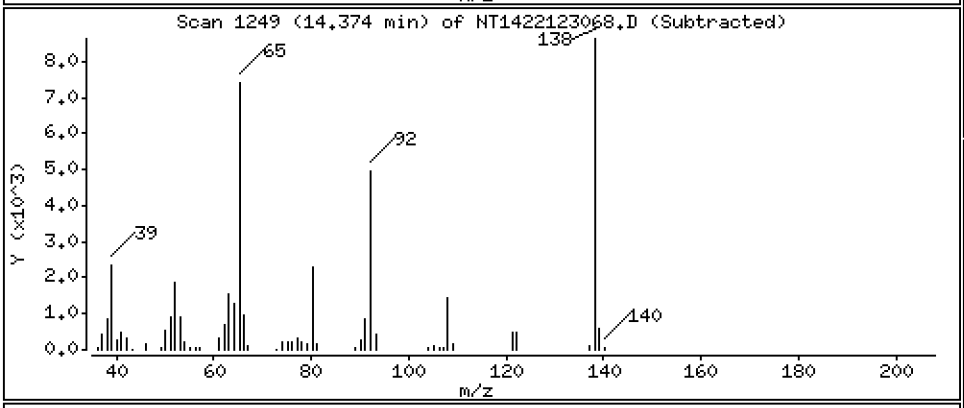
Column phase: ZB-5msi

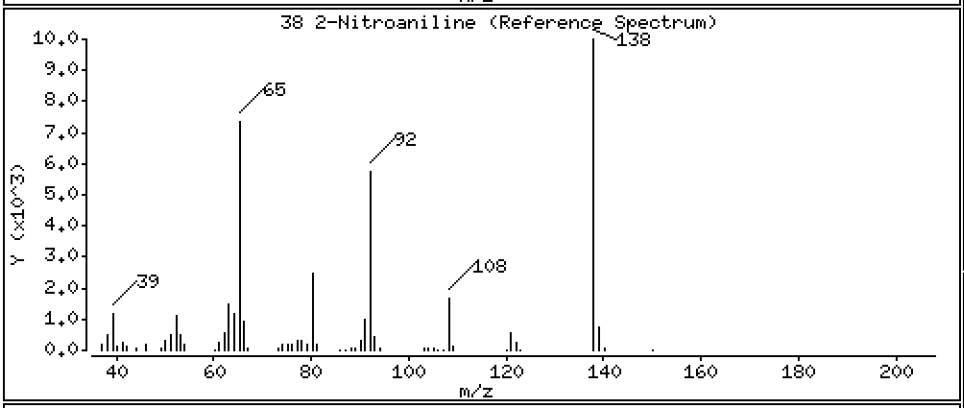
Column diameter: 0.25

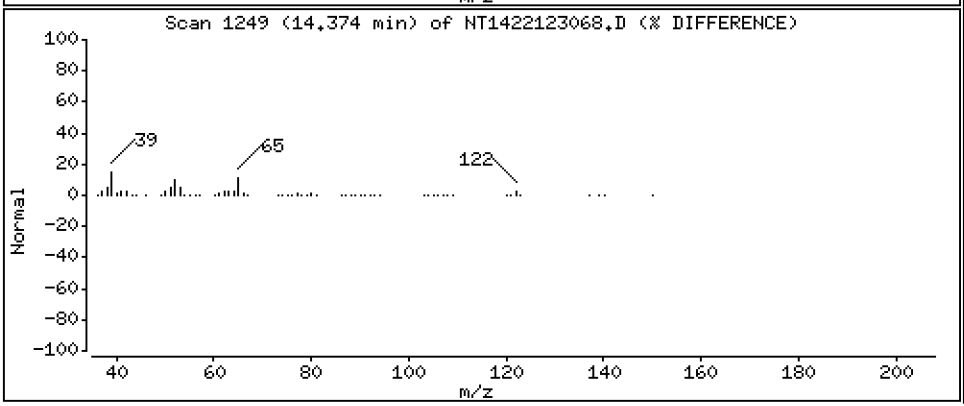
38 2-Nitroaniline

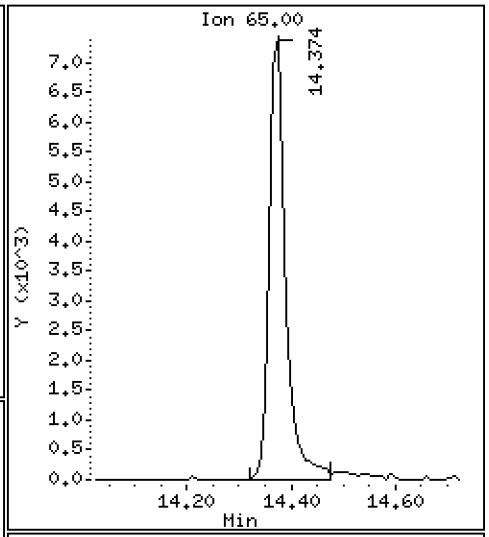
Concentration: 0.9872 ug/mL

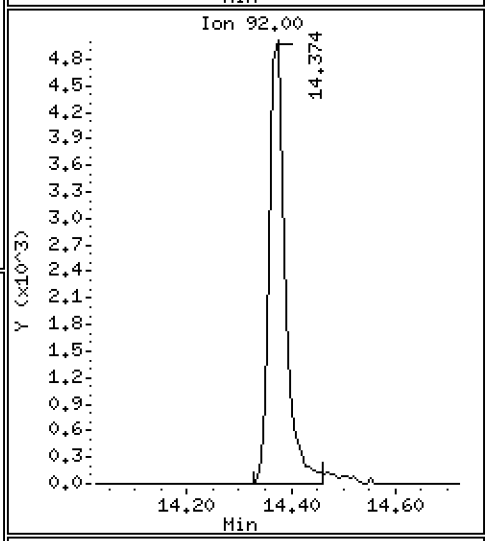


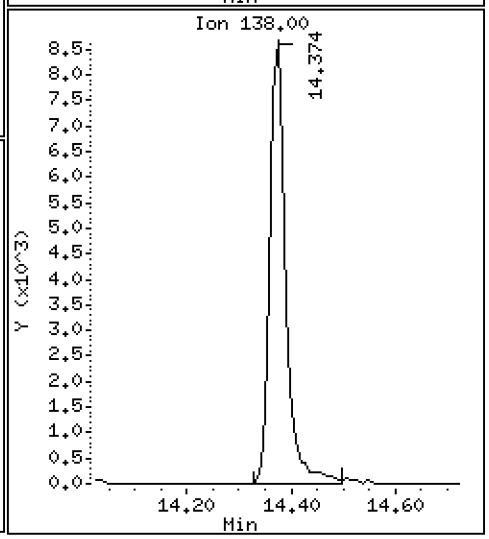












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

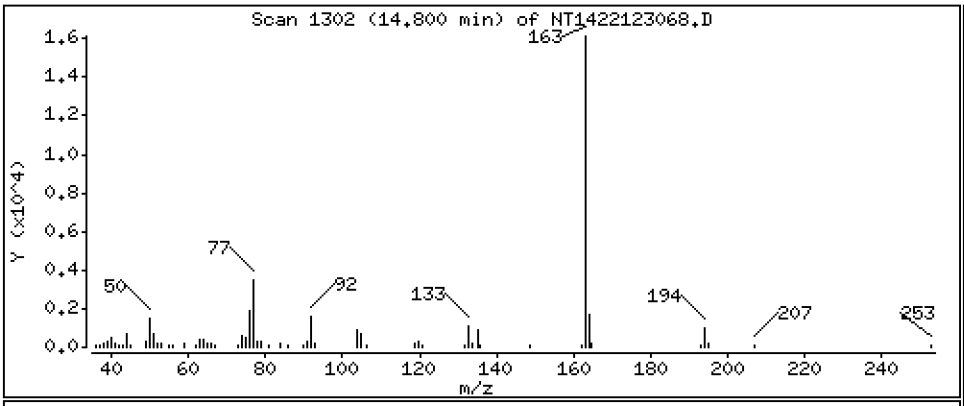
Operator: VTS

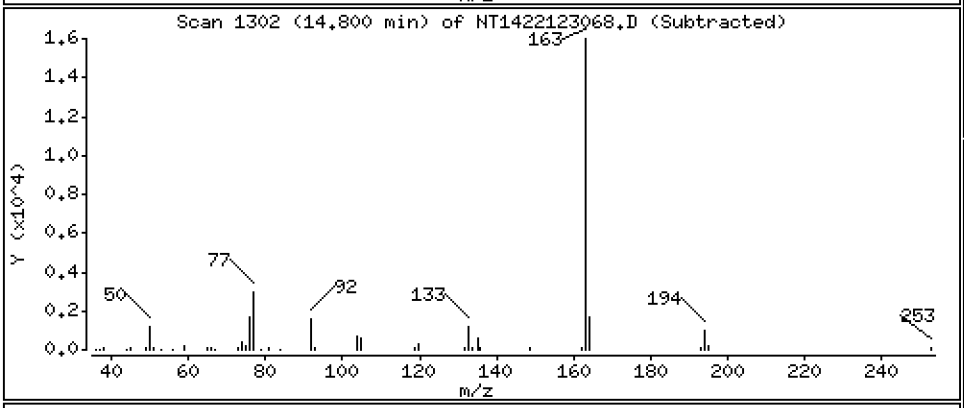
Column phase: ZB-5msi

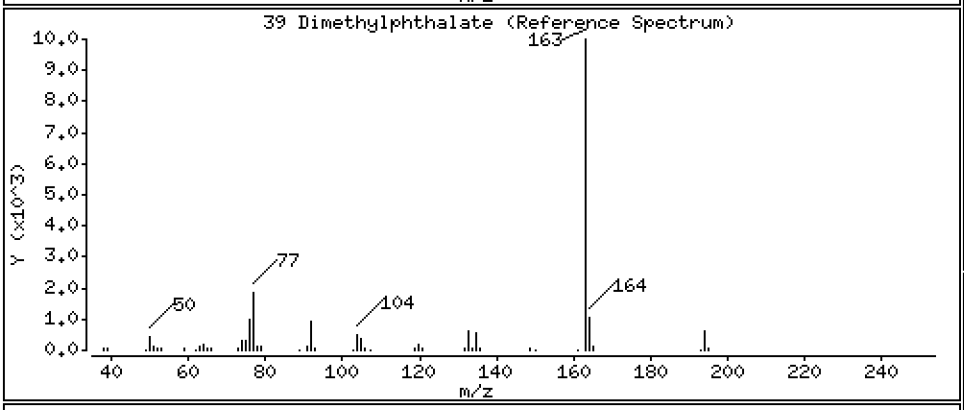
Column diameter: 0.25

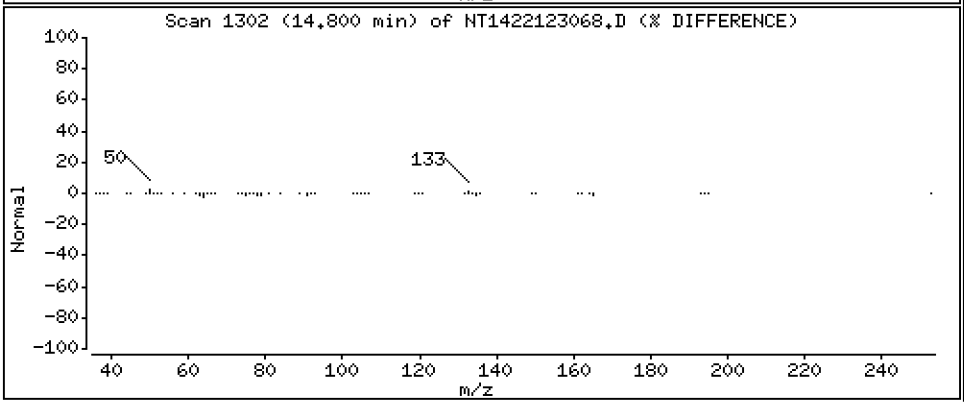
39 Dimethylphthalate

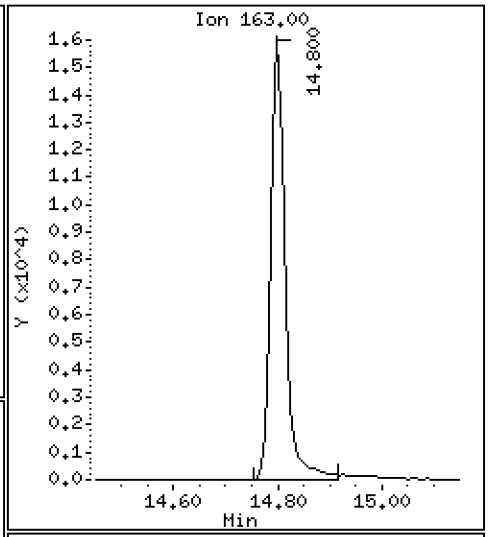
Concentration: 0.4956 ug/mL

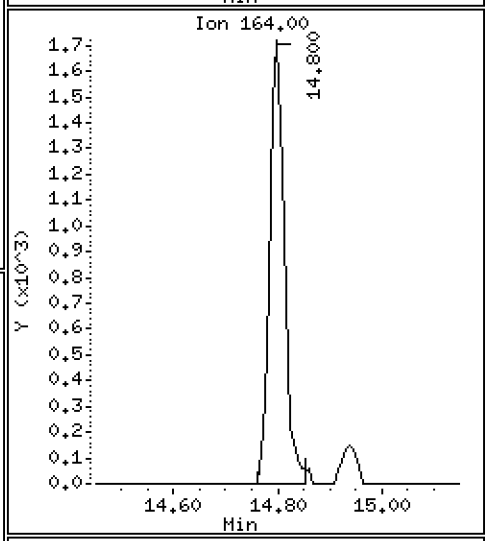


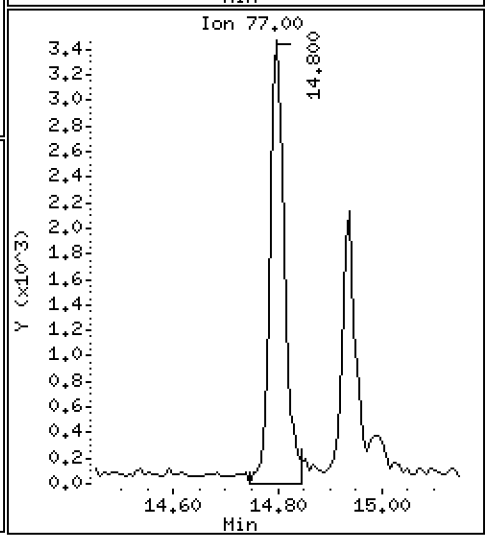












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

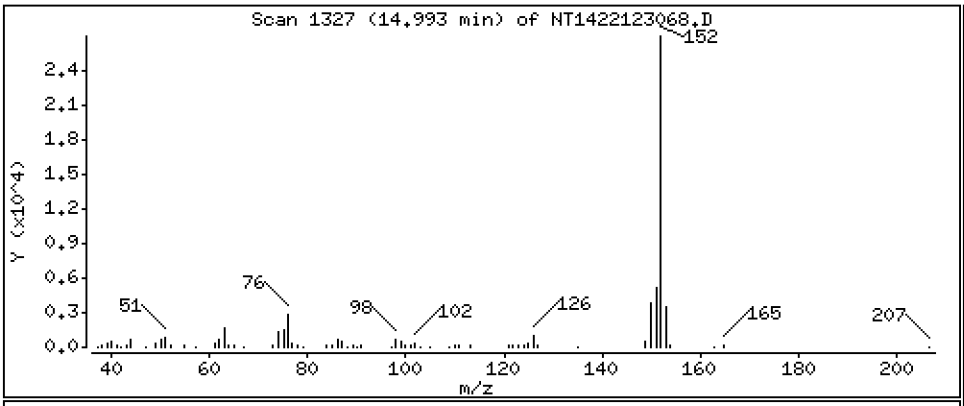
Operator: VTS

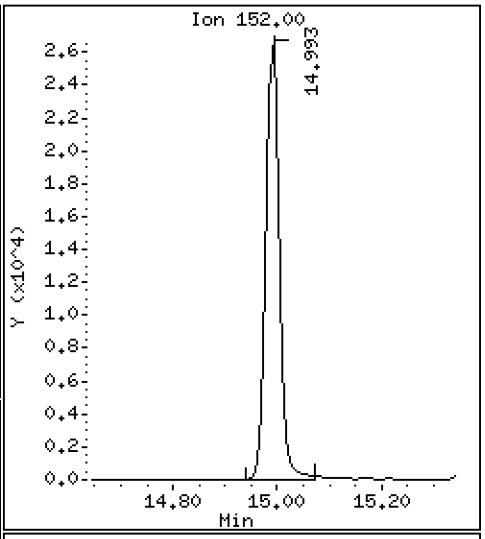
Column phase: ZB-5msi

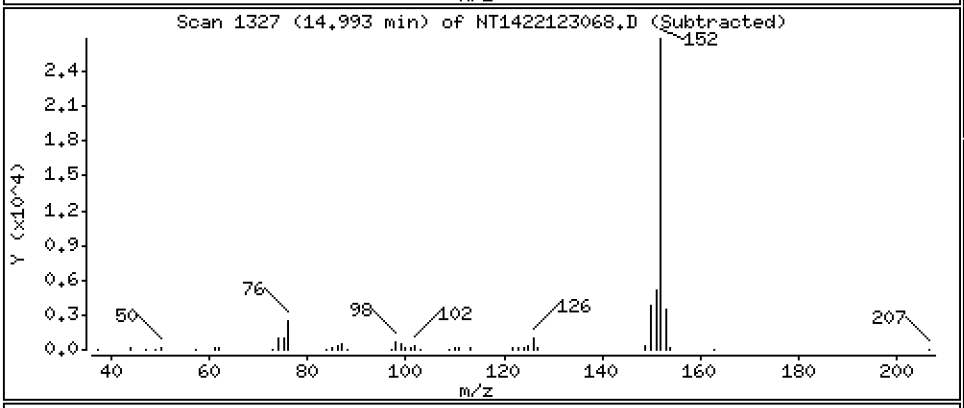
Column diameter: 0.25

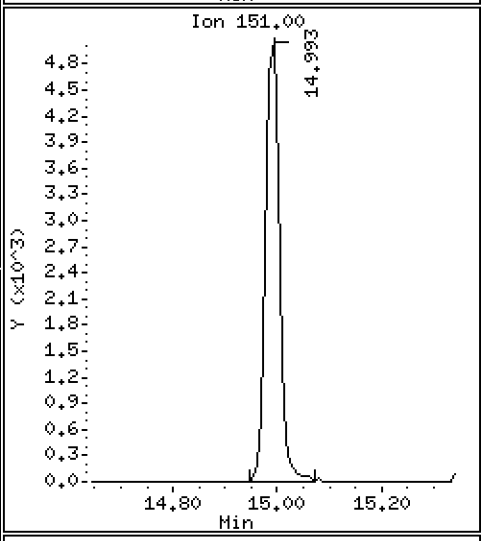
40 Acenaphthylene

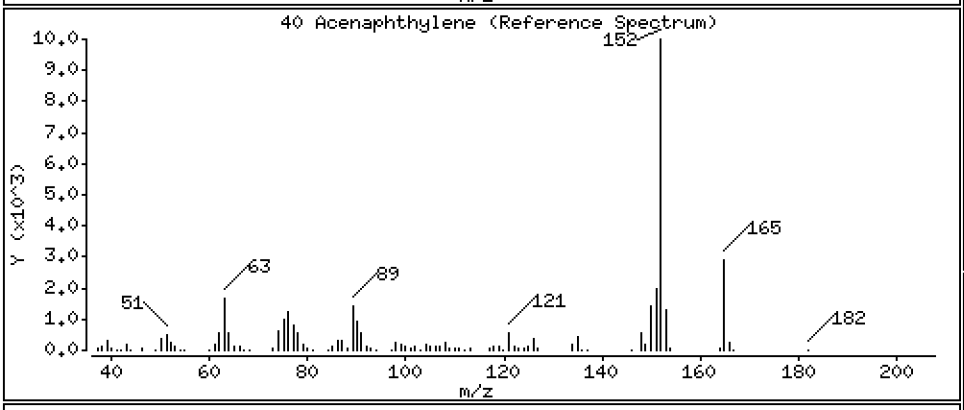
Concentration: 0.4979 ug/mL

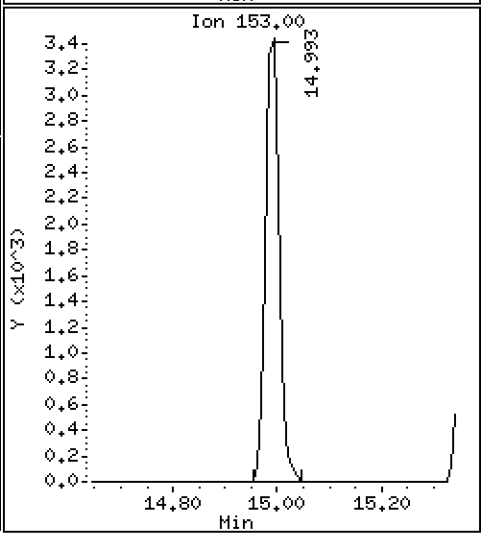


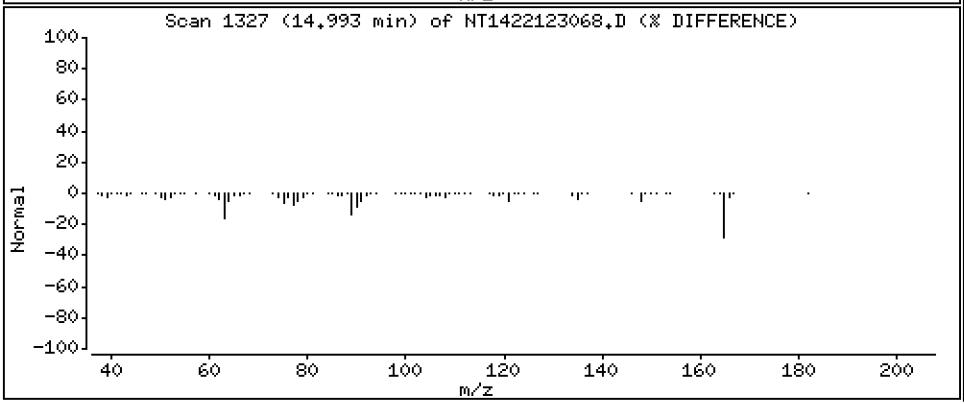












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

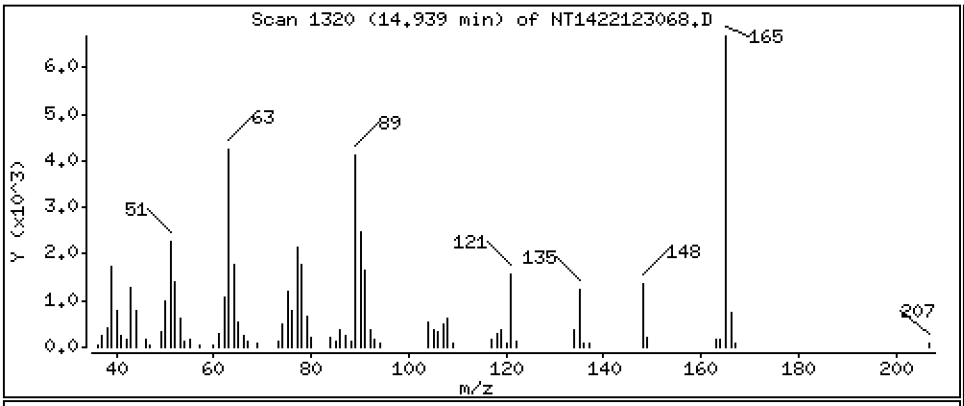
Operator: VTS

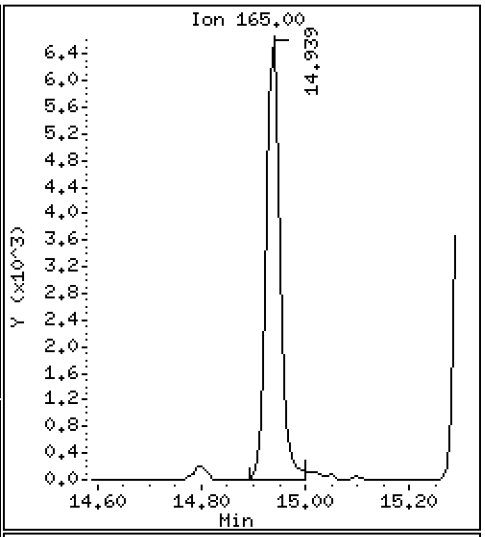
Column phase: ZB-5msi

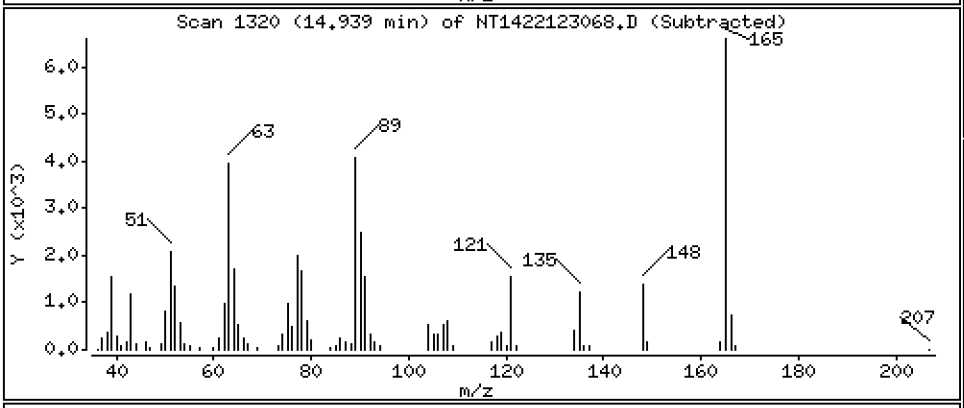
Column diameter: 0.25

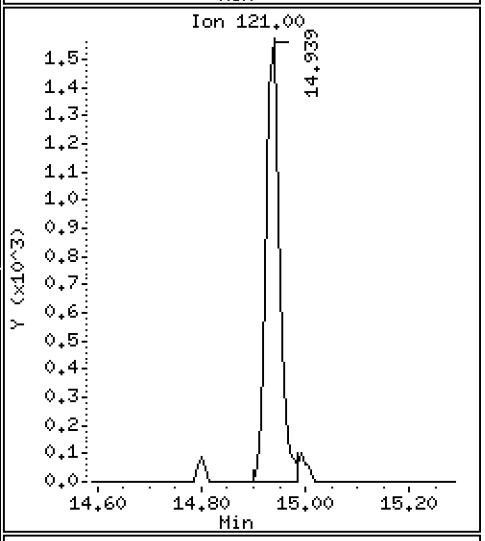
41 2,6-Dinitrotoluene

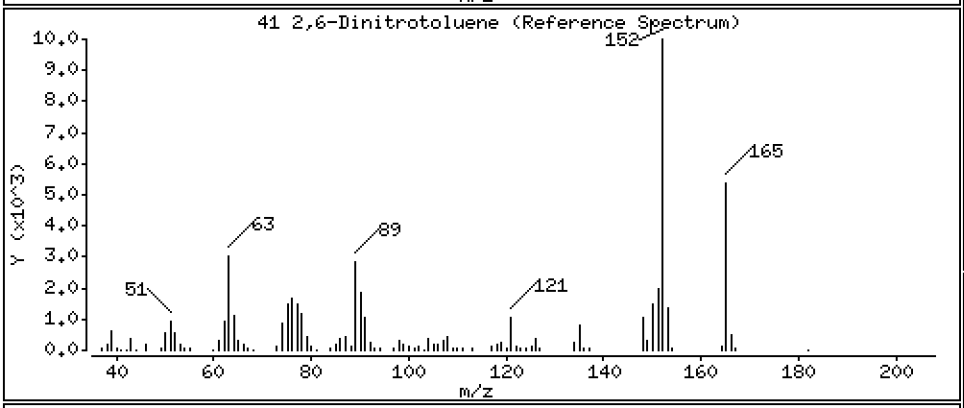
Concentration: 0.8726 ug/mL

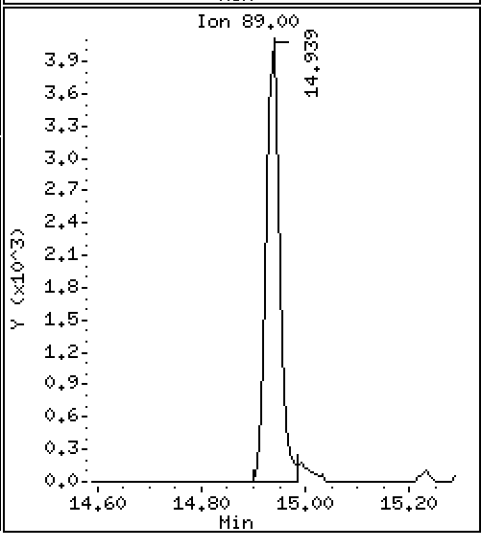


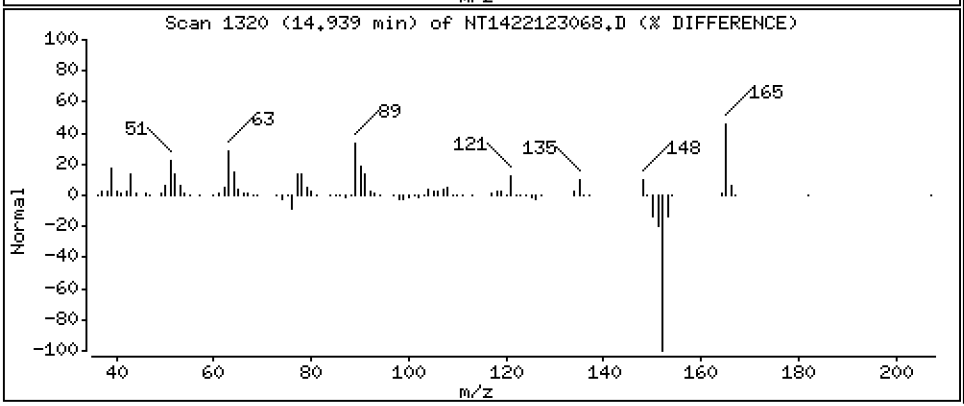












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

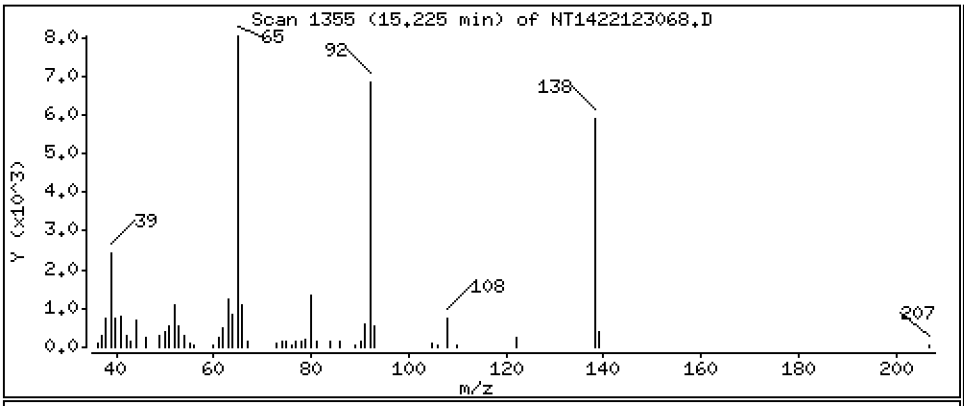
Operator: VTS

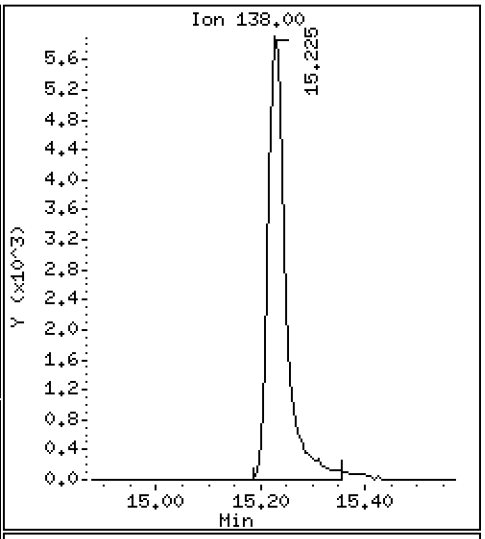
Column phase: ZB-5msi

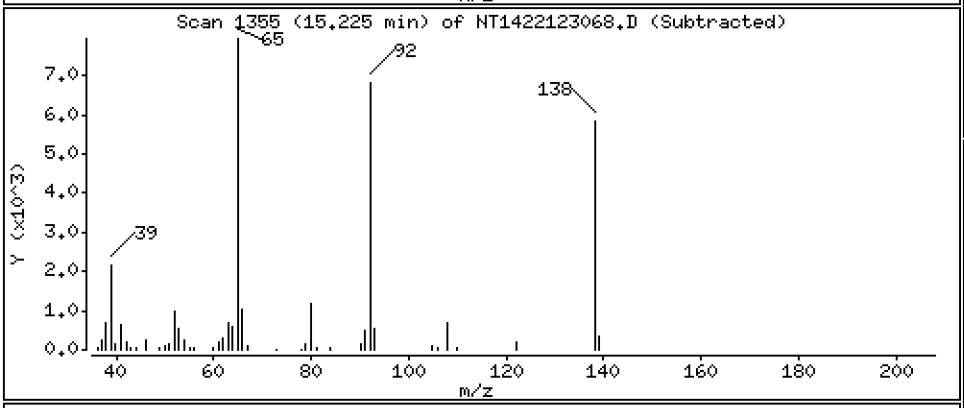
Column diameter: 0.25

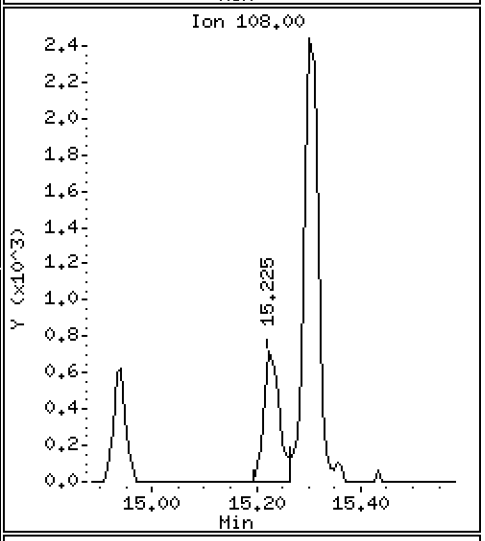
43 3-Nitroaniline

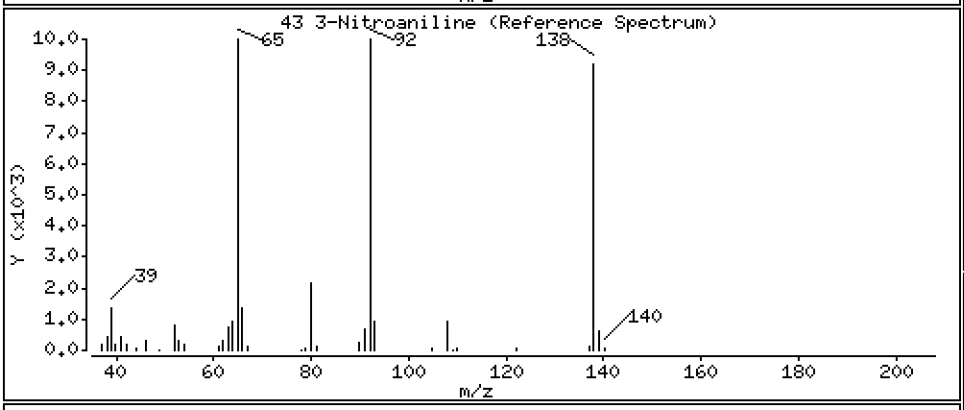
Concentration: 0.8487 ug/mL

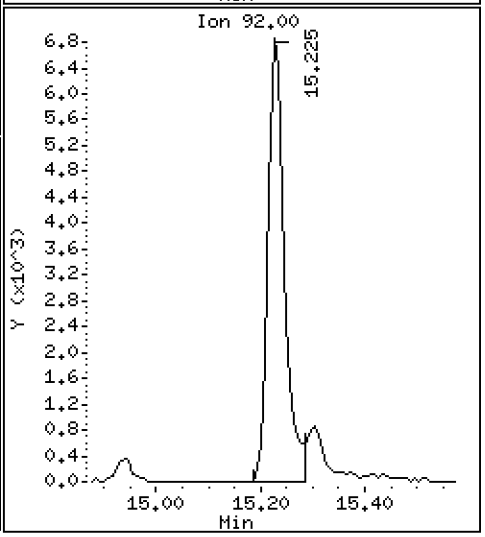


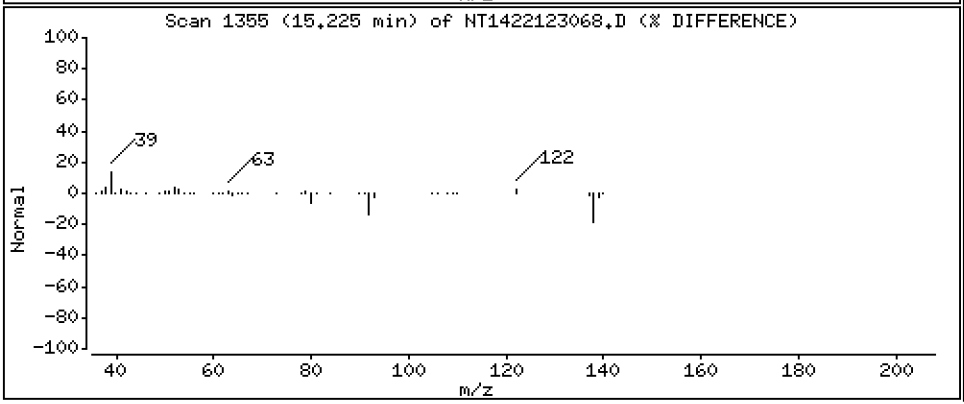












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

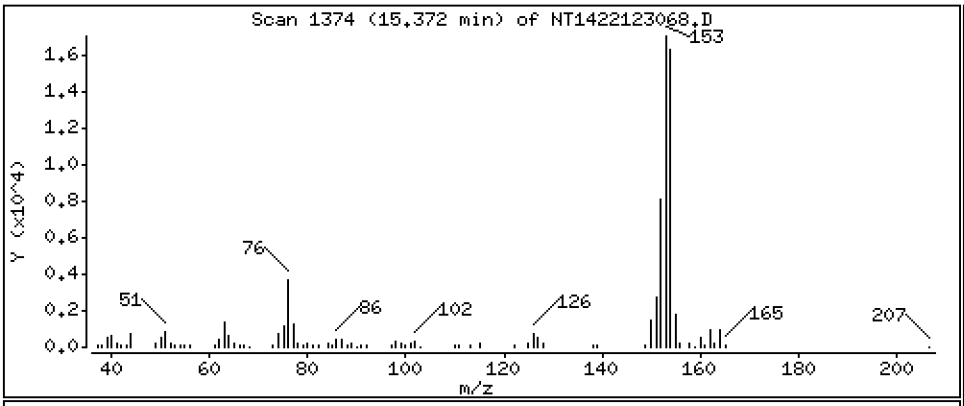
Operator: VTS

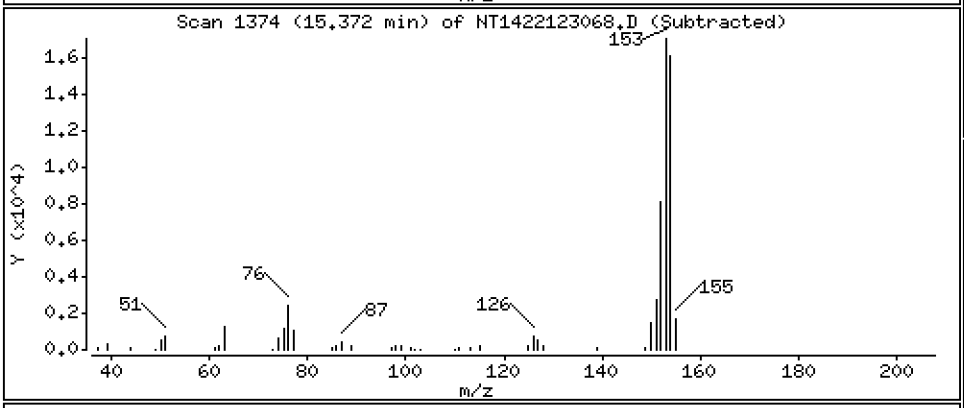
Column phase: ZB-5msi

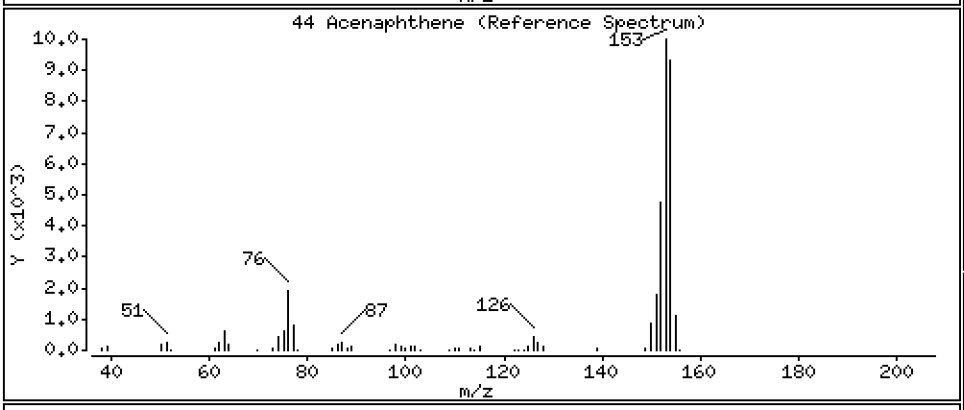
Column diameter: 0.25

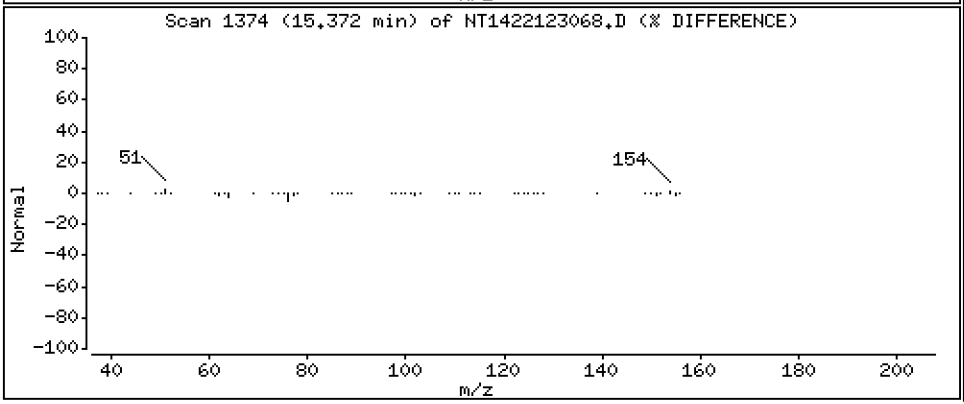
44 Acenaphthene

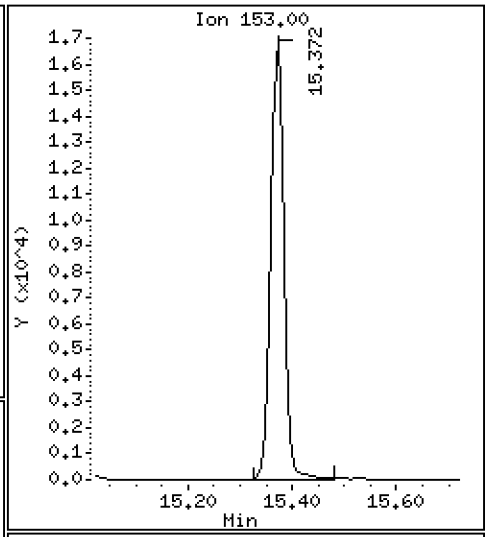
Concentration: 0.4955 ug/mL

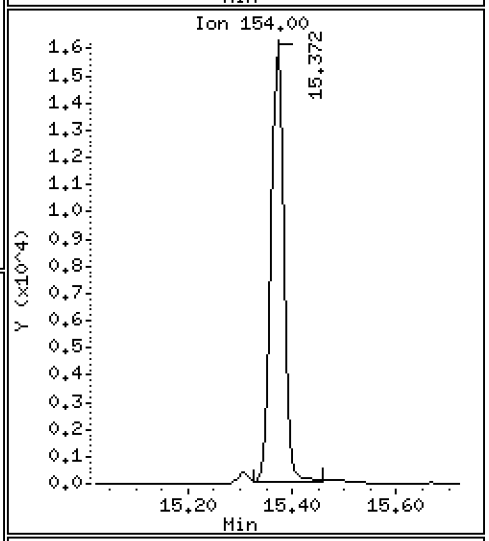


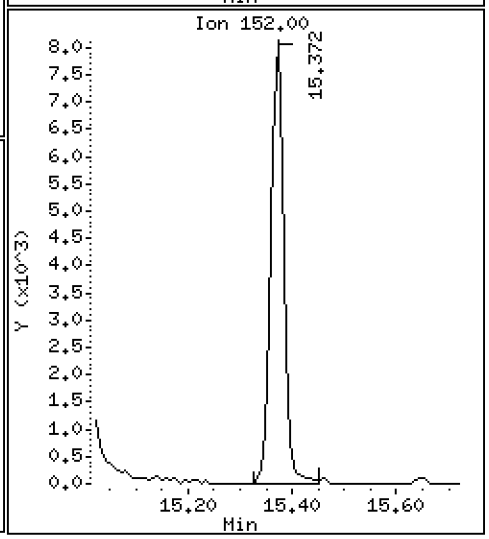












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

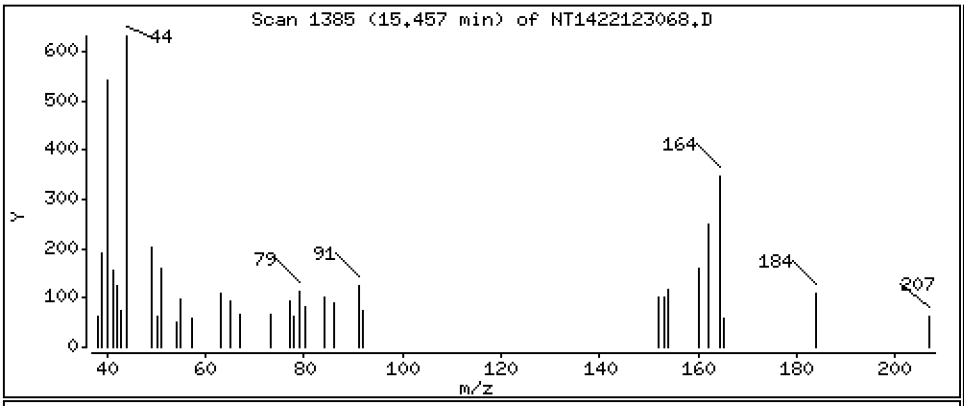
Operator: VTS

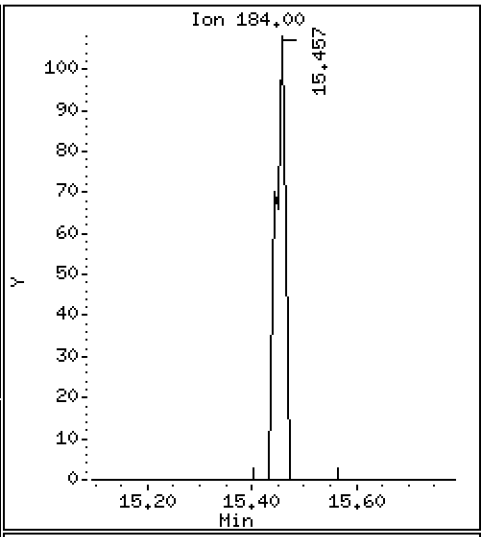
Column phase: ZB-5msi

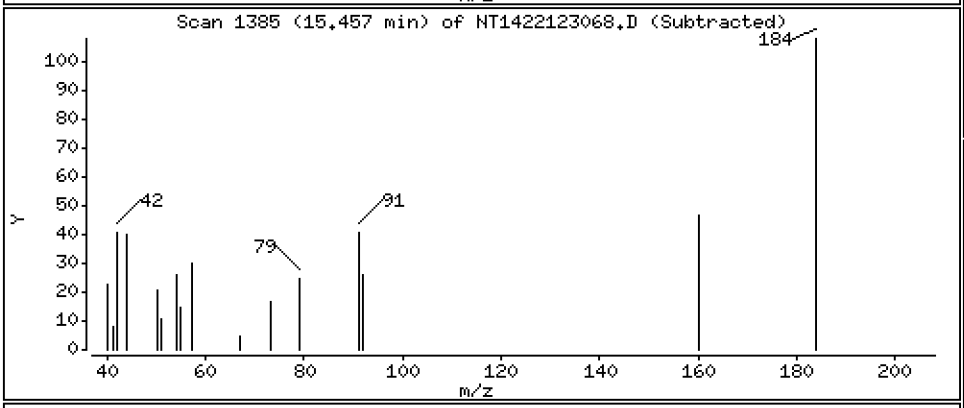
Column diameter: 0.25

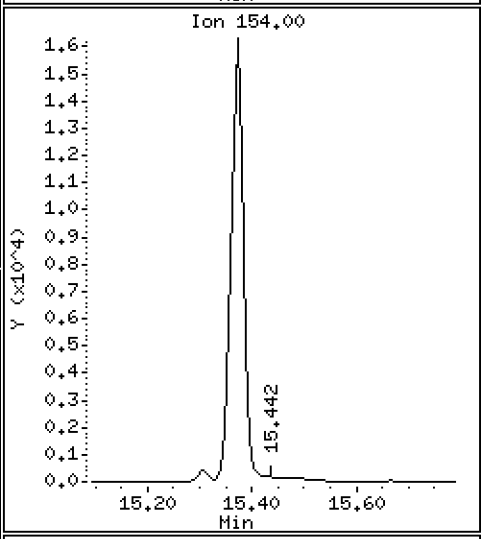
45 2,4-Dinitrophenol

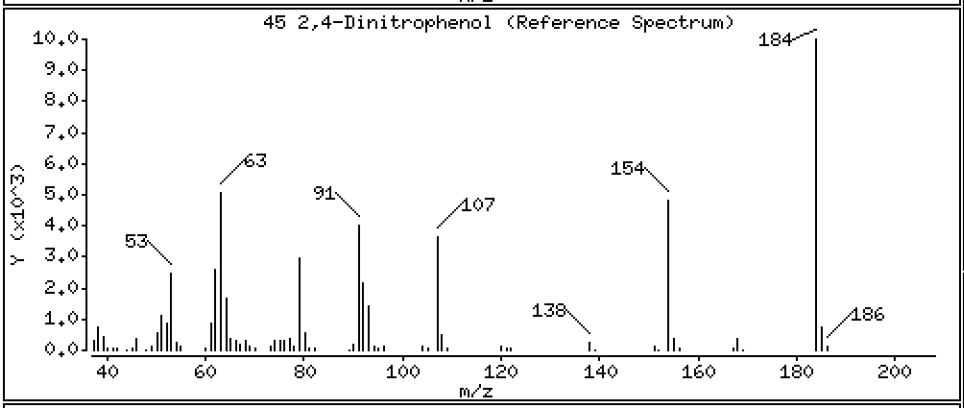
Concentration: 0.01232 ug/mL

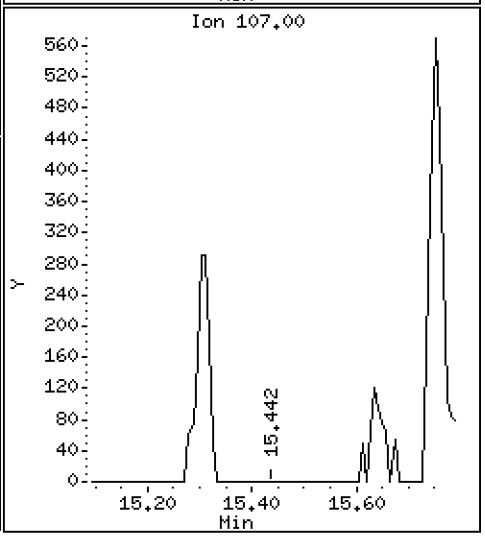


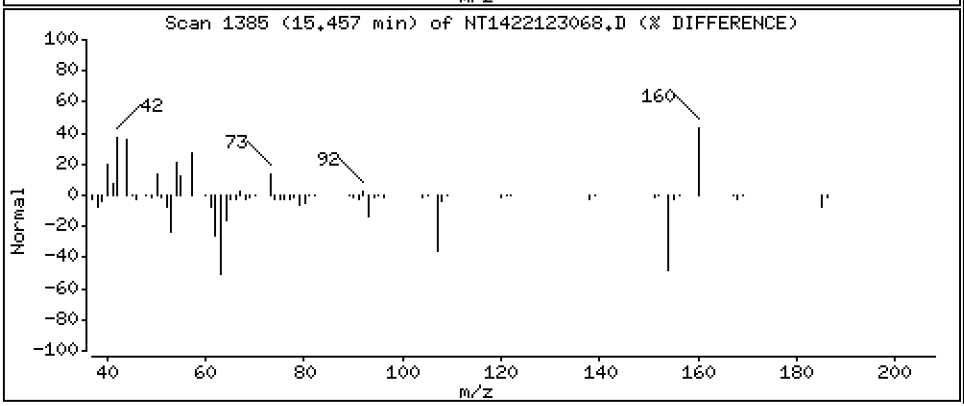












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

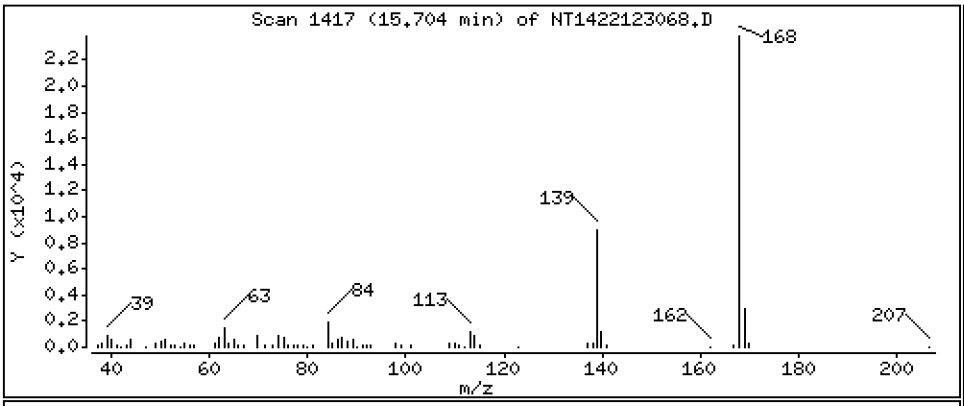
Operator: VTS

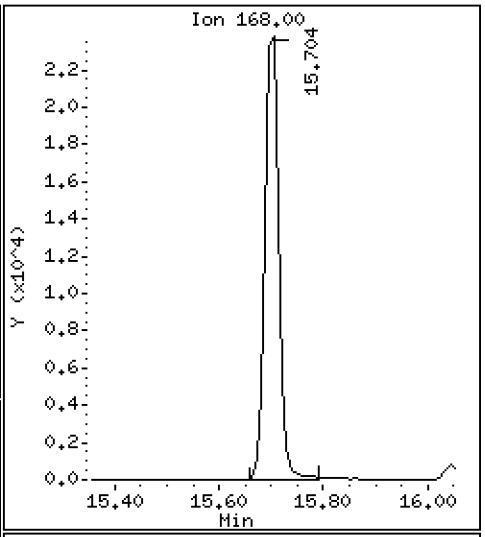
Column phase: ZB-5msi

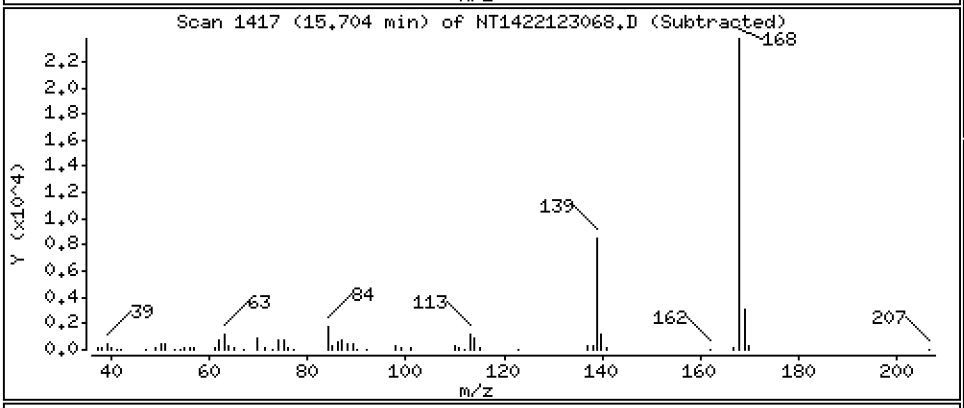
Column diameter: 0.25

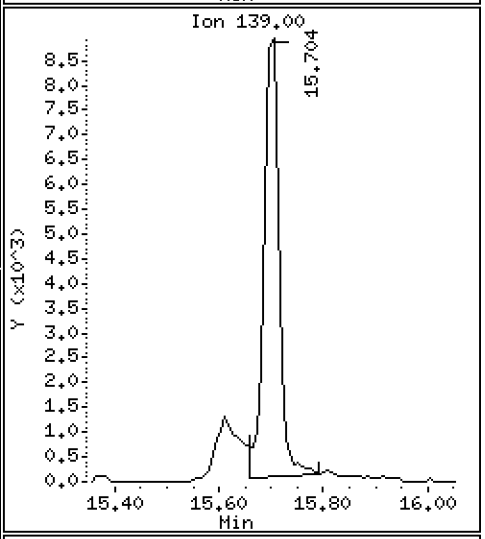
46 Dibenzofuran

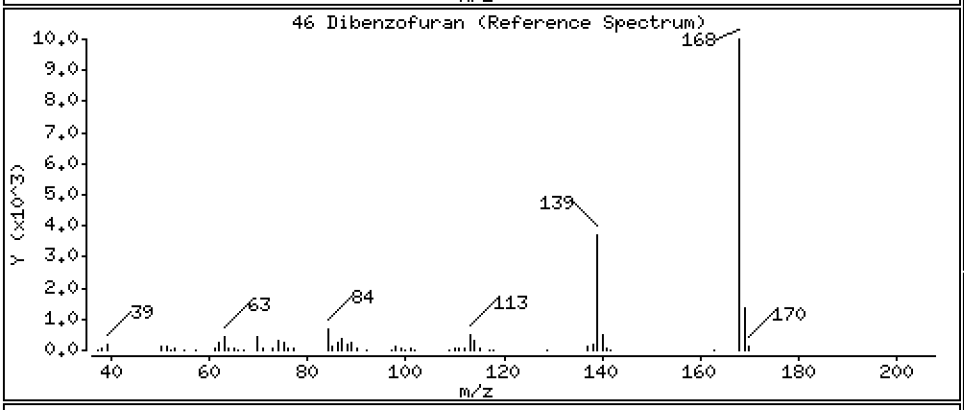
Concentration: 0.4928 ug/mL

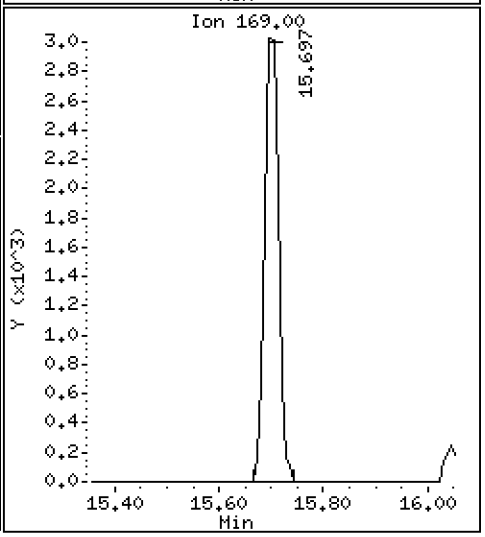


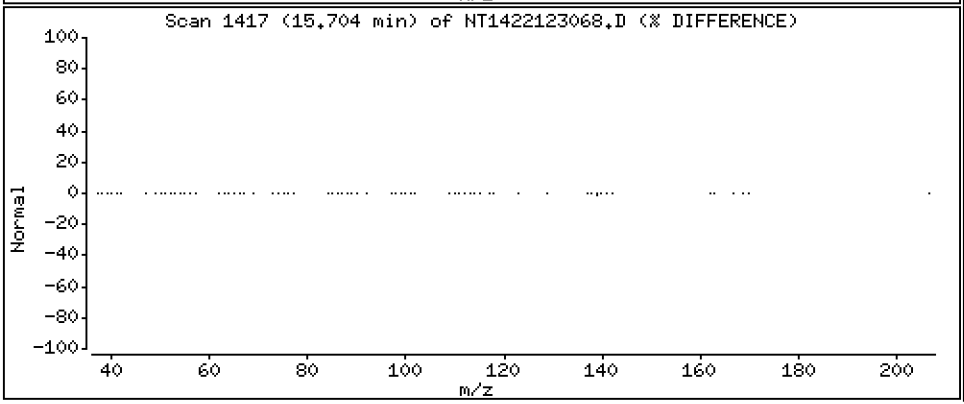












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

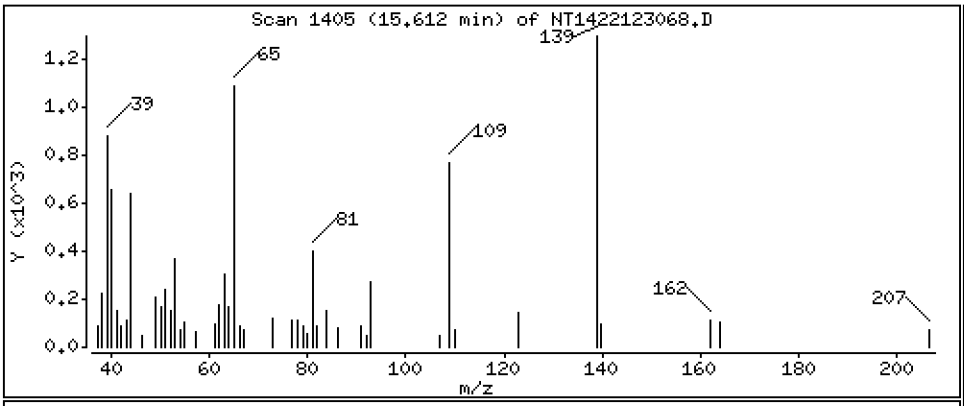
Operator: VTS

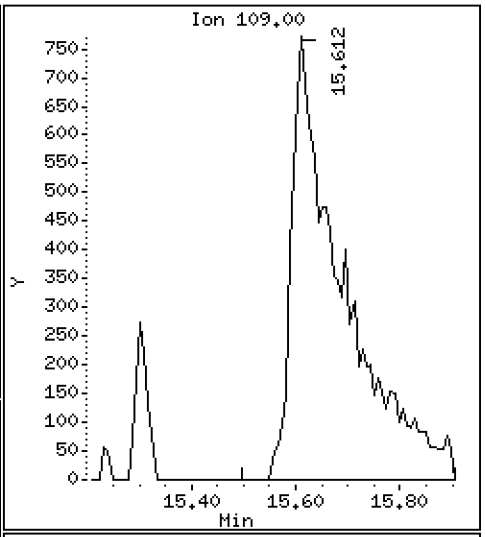
Column phase: ZB-5msi

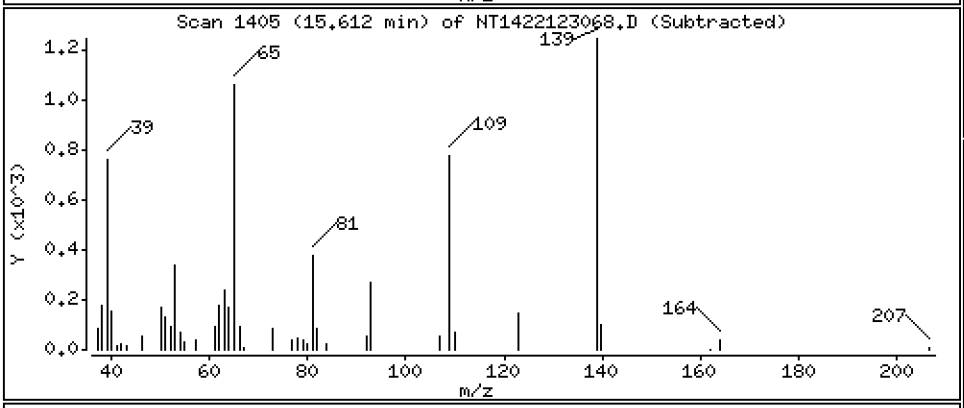
Column diameter: 0.25

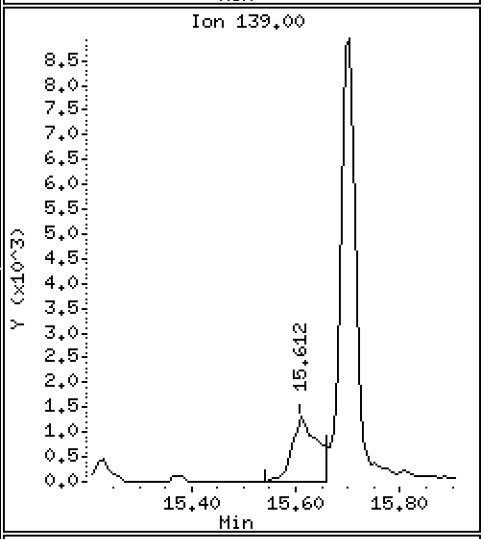
47 4-Nitrophenol

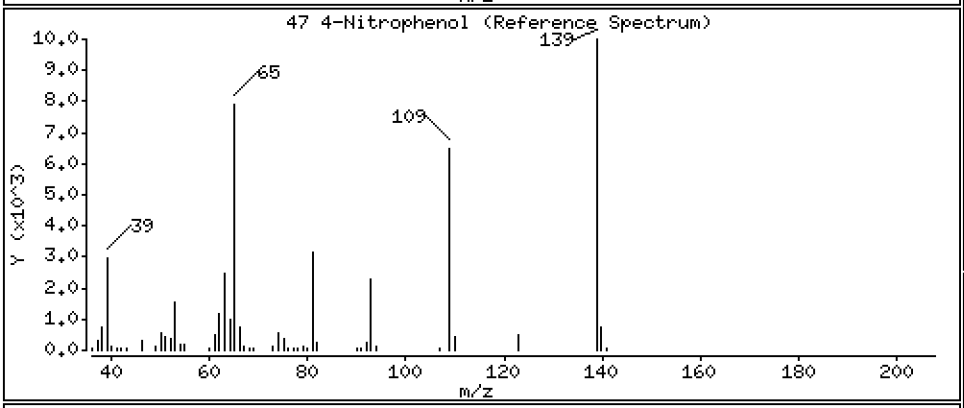
Concentration: 0.6719 ug/mL

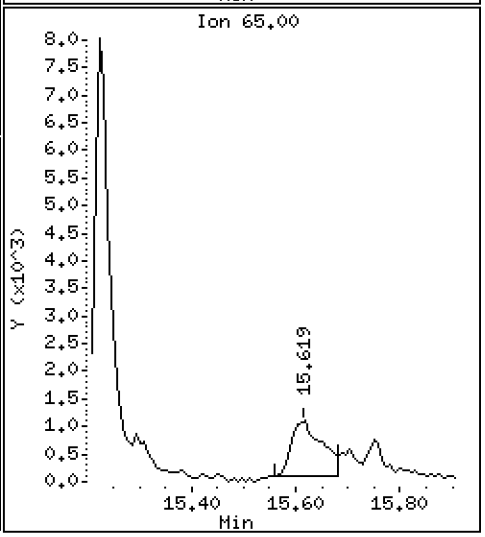


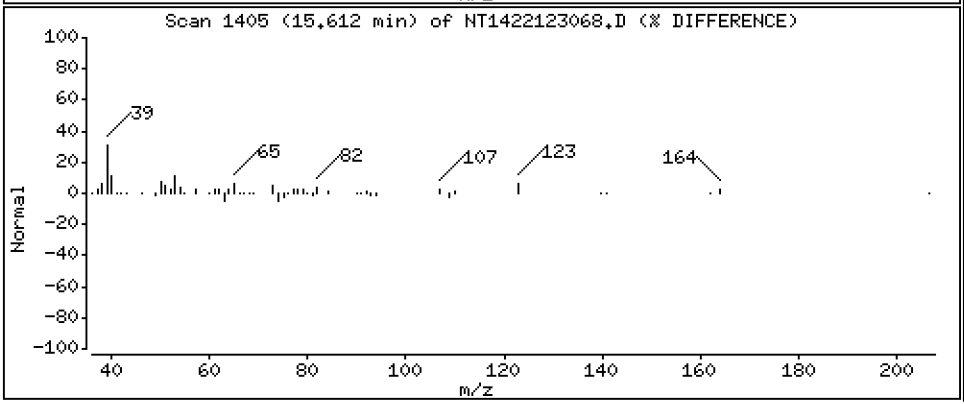












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

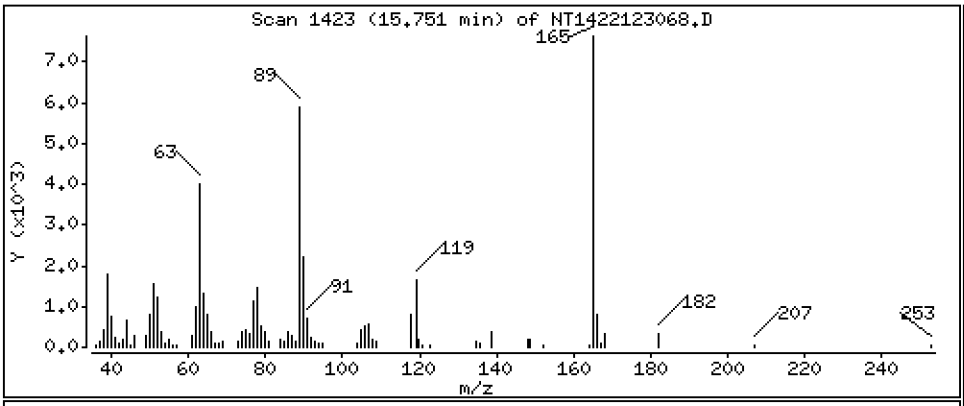
Operator: VTS

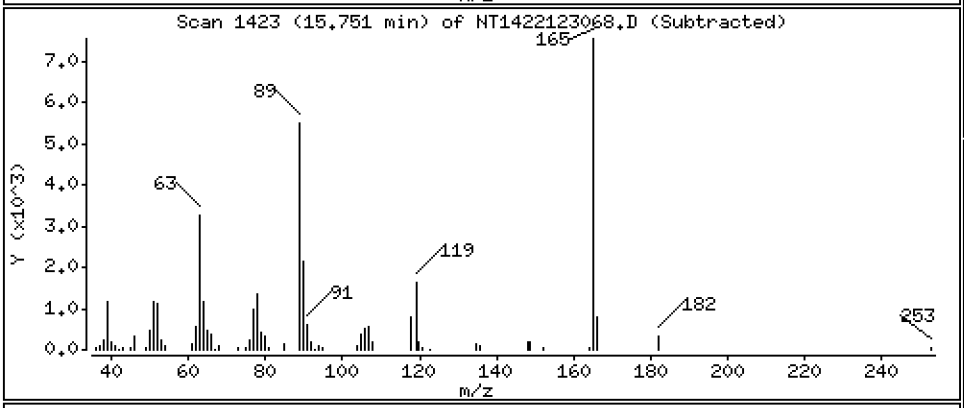
Column phase: ZB-5msi

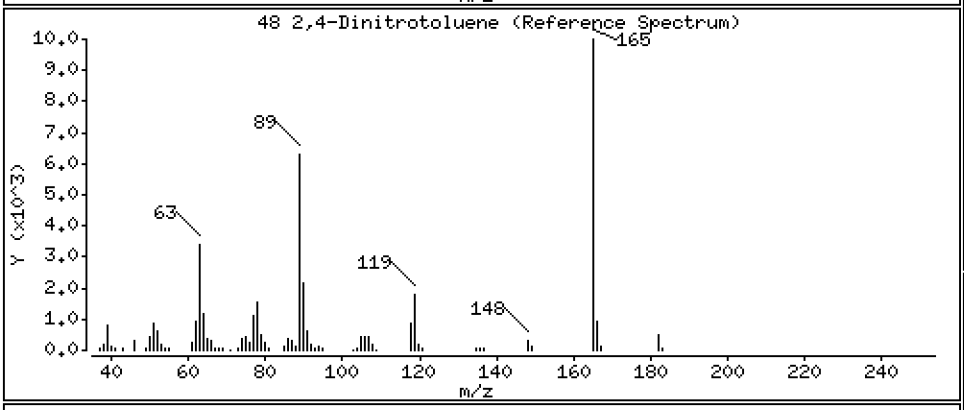
Column diameter: 0.25

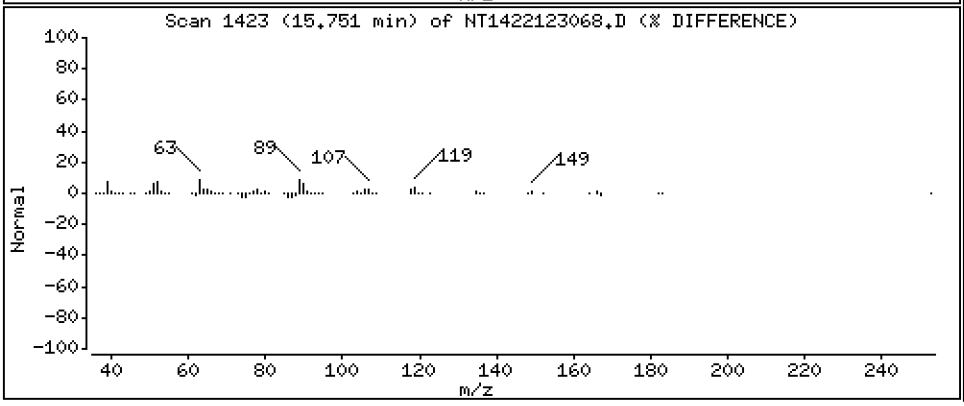
48 2,4-Dinitrotoluene

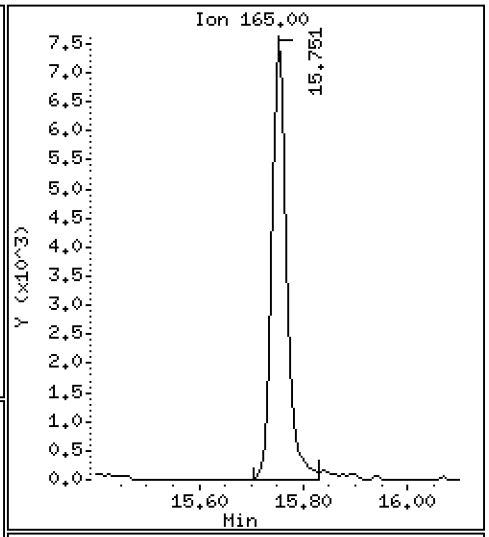
Concentration: 0.7780 ug/mL

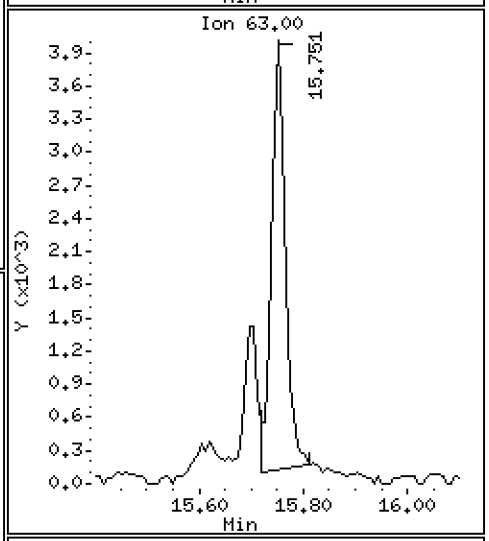


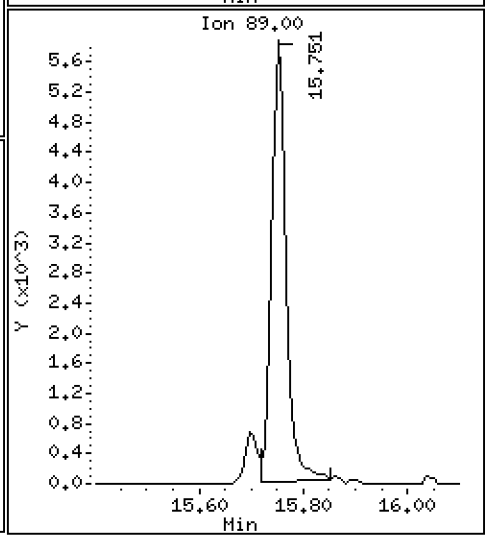












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

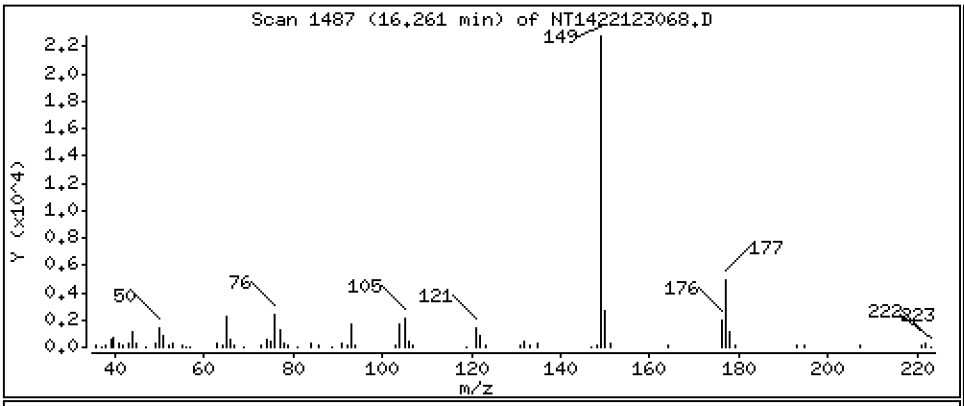
Operator: VTS

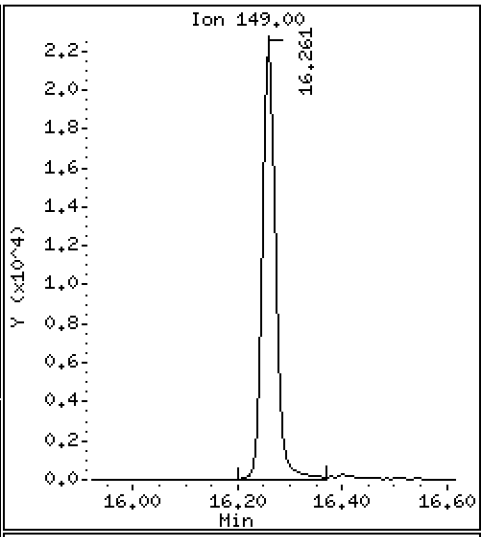
Column phase: ZB-5msi

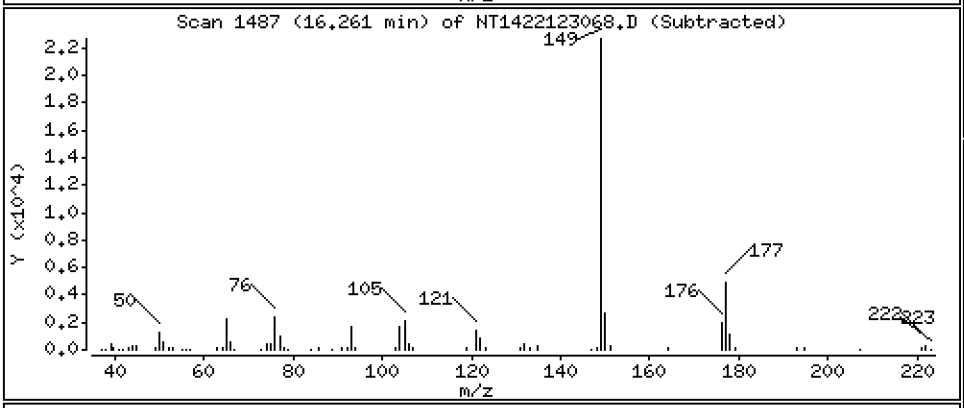
Column diameter: 0.25

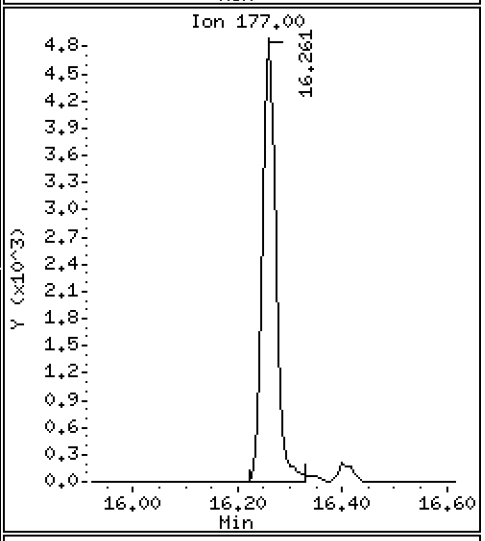
50 Diethylphthalate

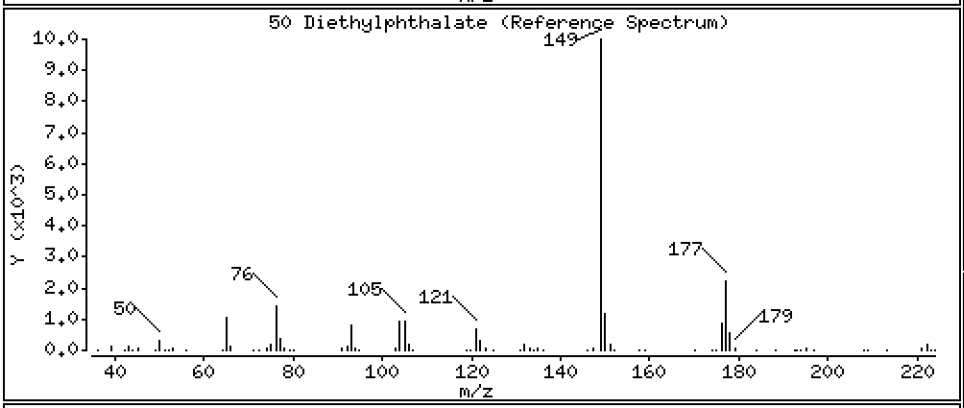
Concentration: 0.5719 ug/mL

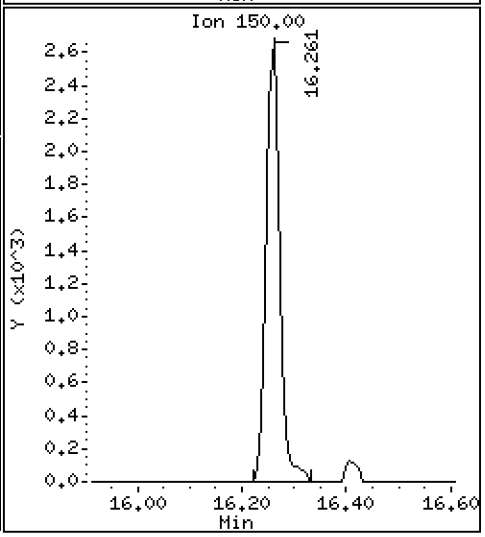


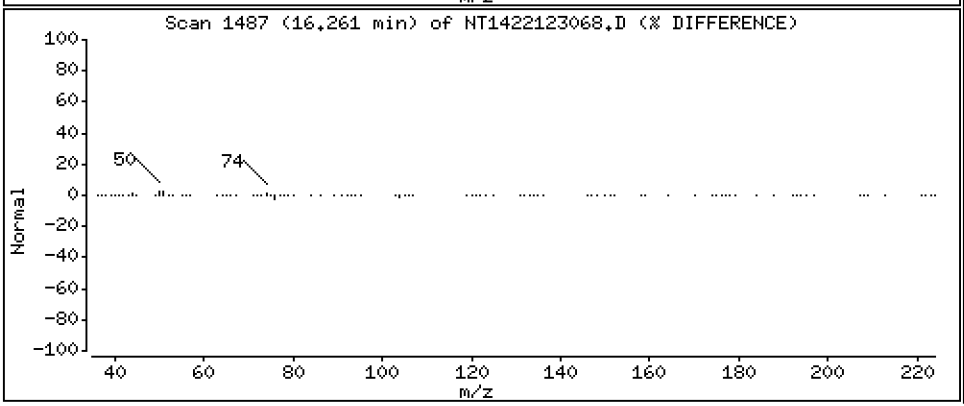












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

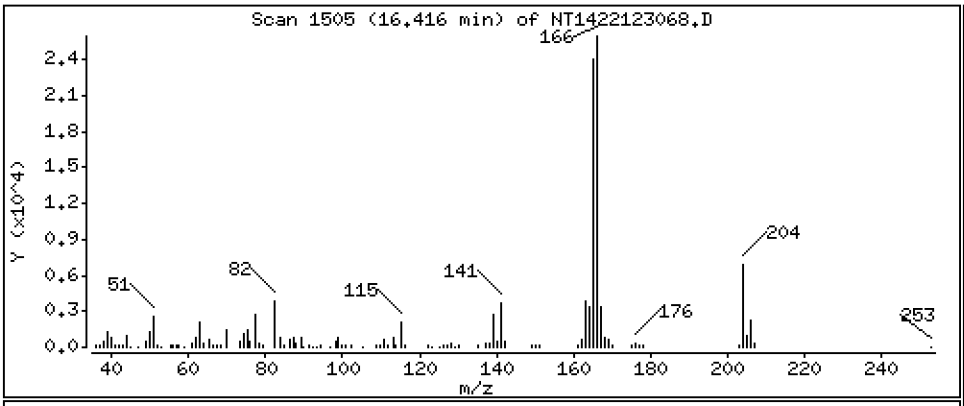
Operator: VTS

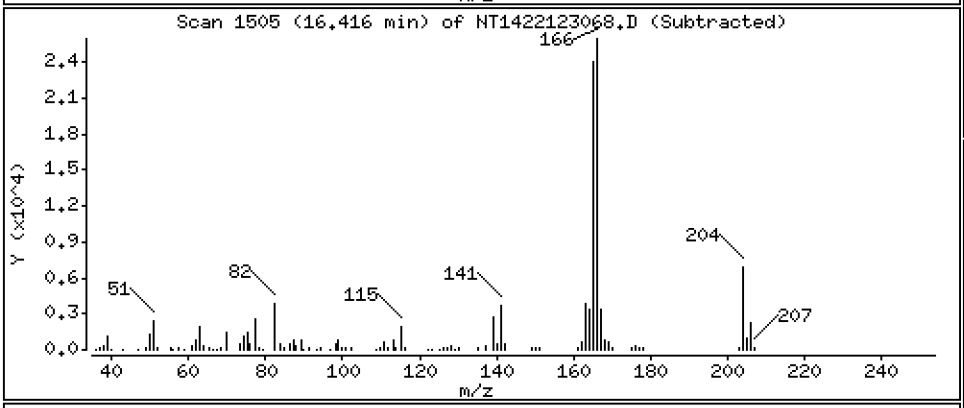
Column phase: ZB-5msi

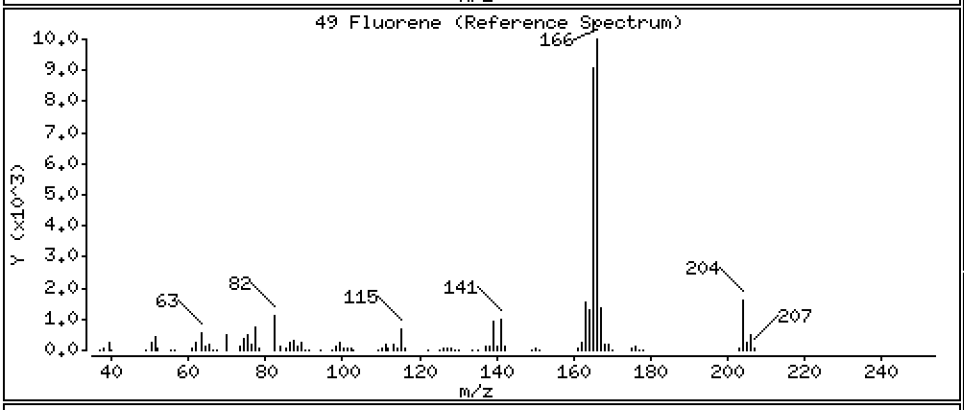
Column diameter: 0.25

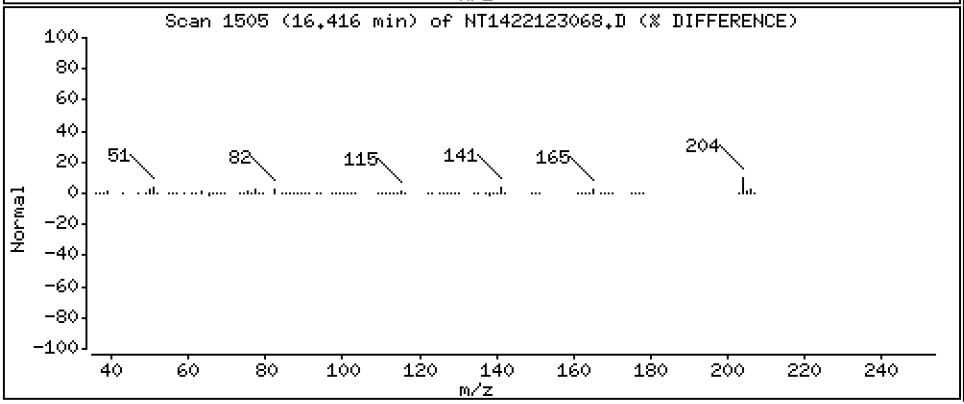
49 Fluorene

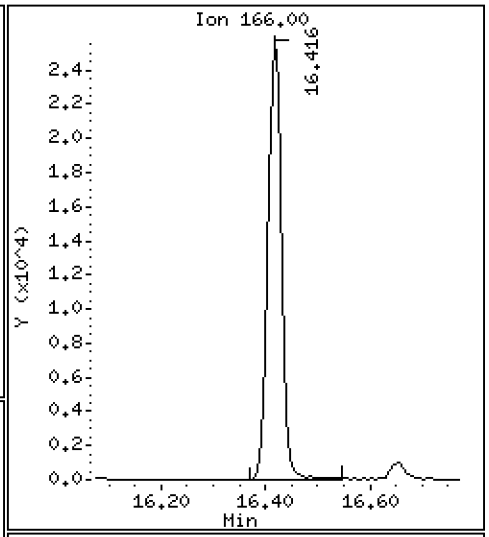
Concentration: 0.4880 ug/mL

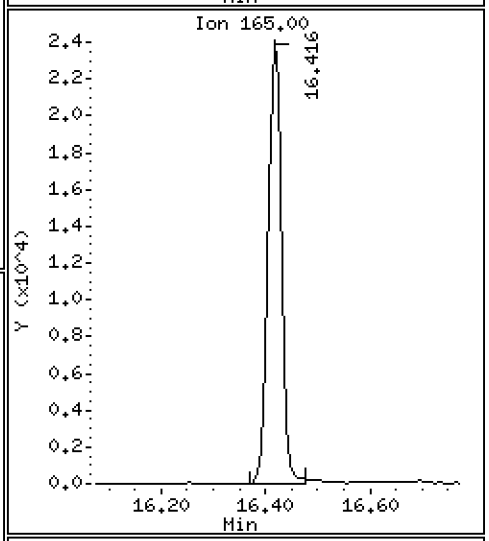


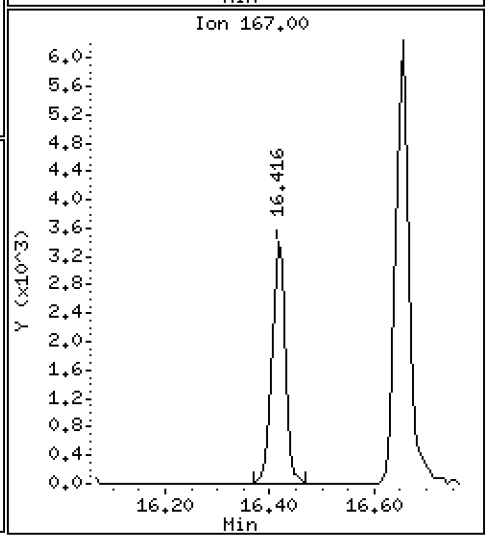












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

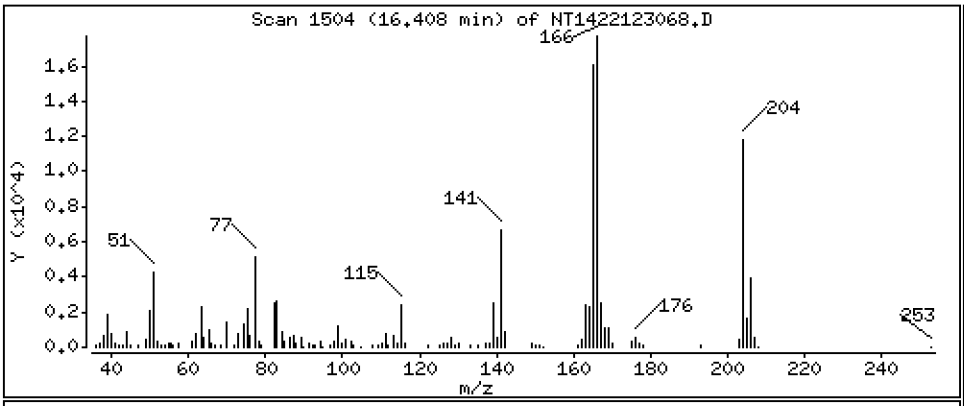
Operator: VTS

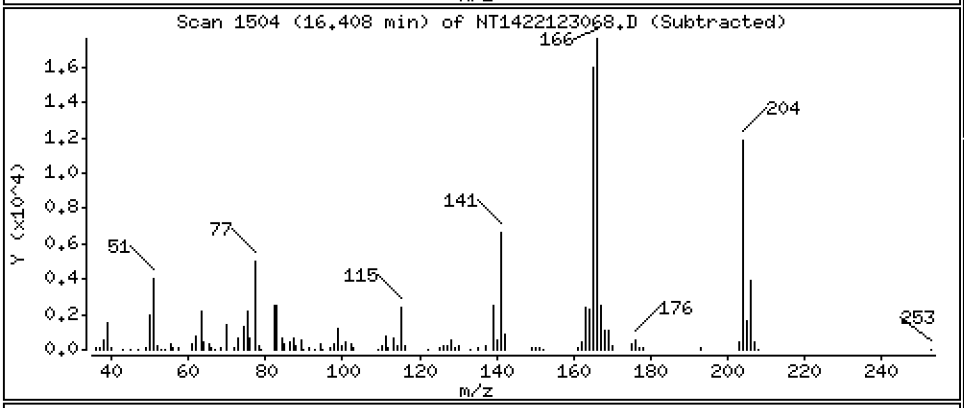
Column phase: ZB-5msi

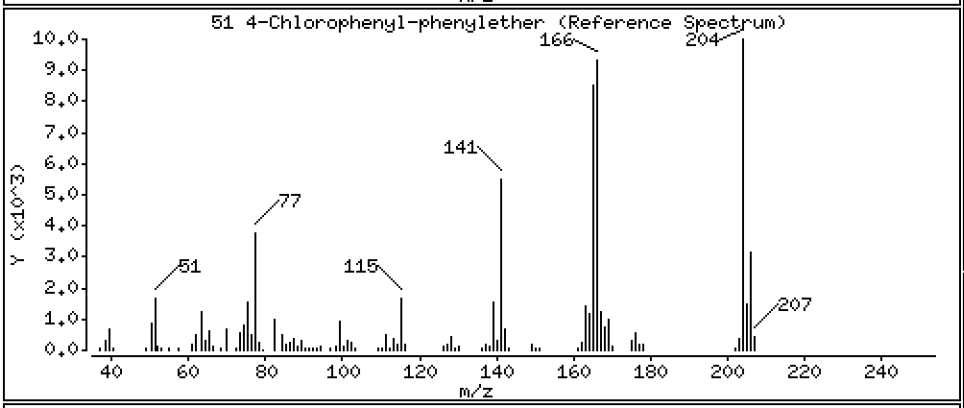
Column diameter: 0.25

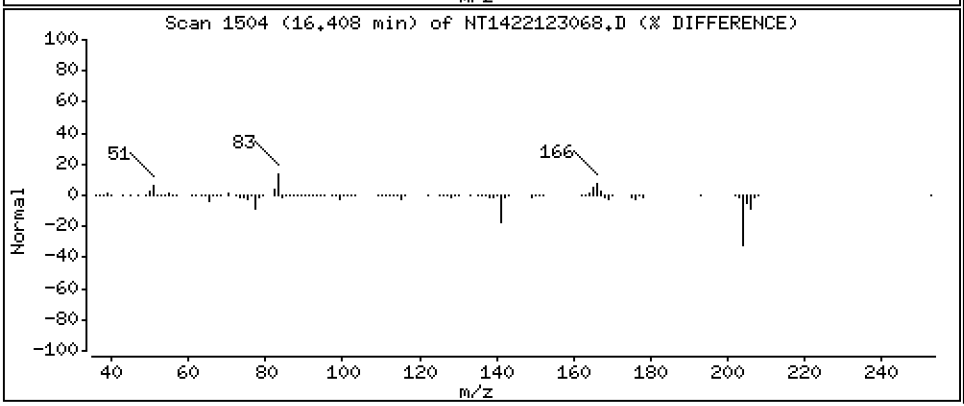
51 4-Chlorophenyl-phenylether

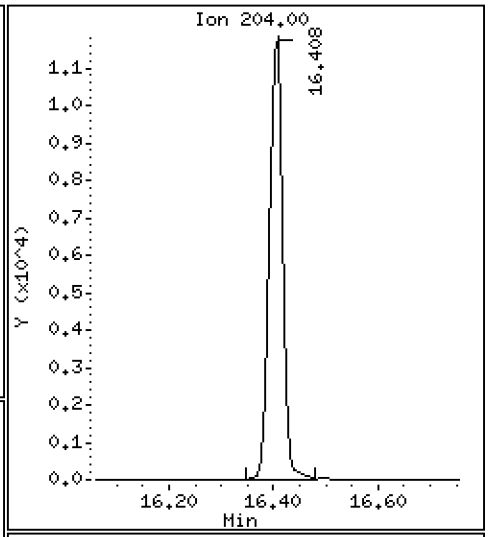
Concentration: 0.5123 ug/mL

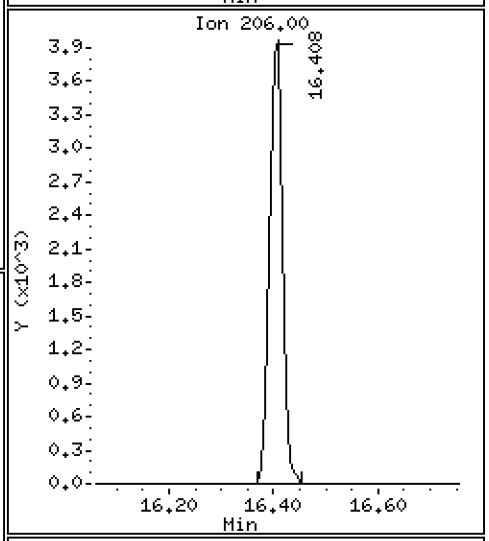


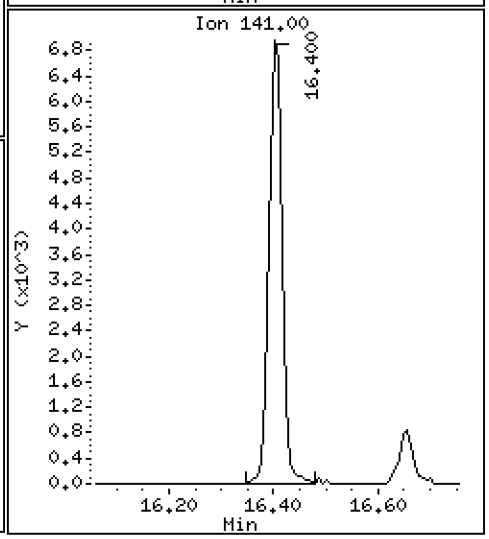












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

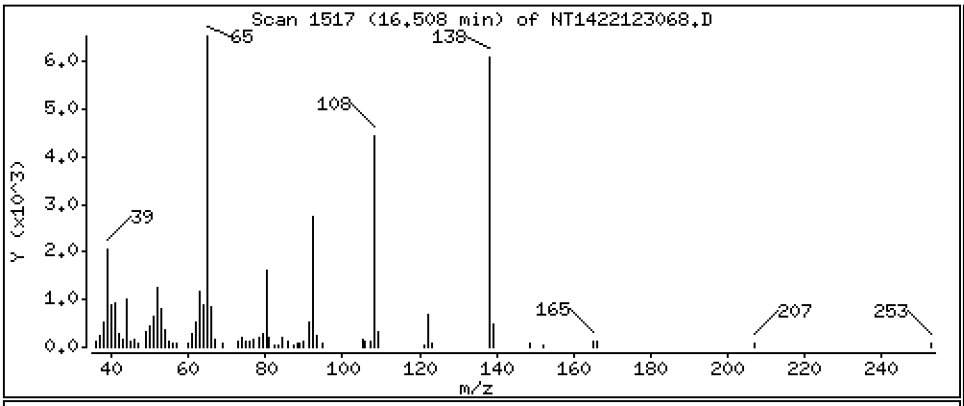
Operator: VTS

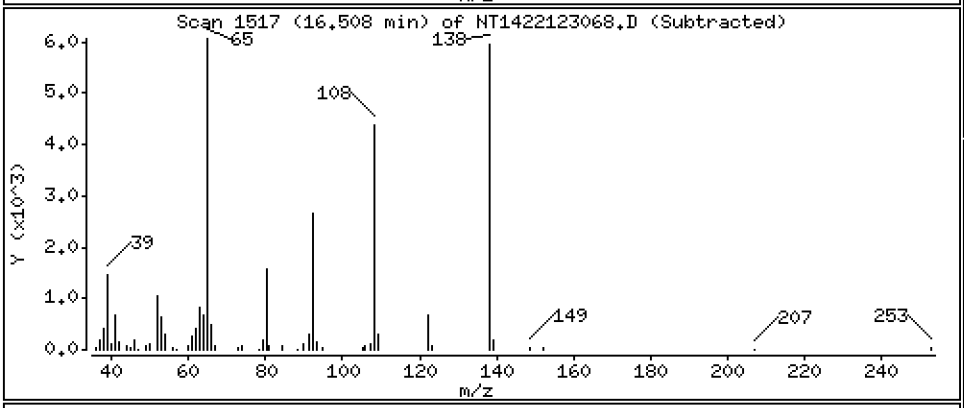
Column phase: ZB-5msi

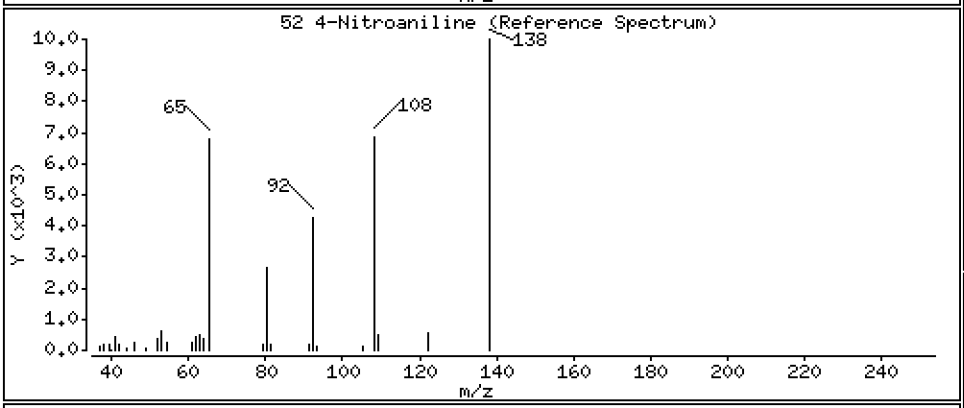
Column diameter: 0.25

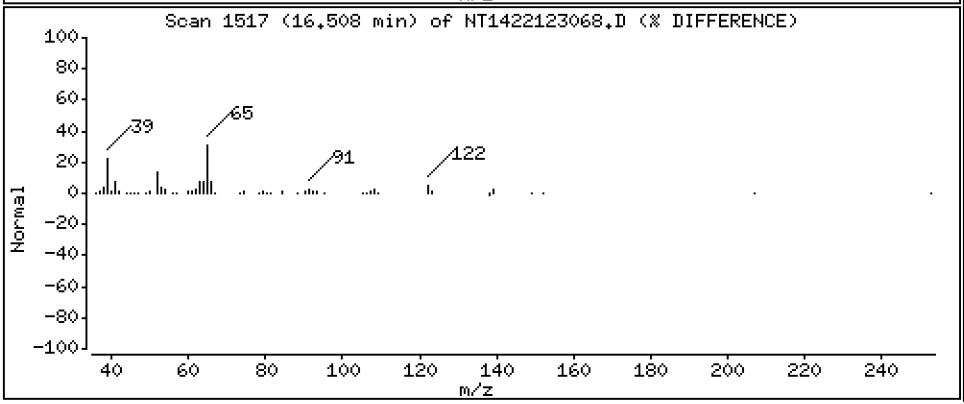
52 4-Nitroaniline

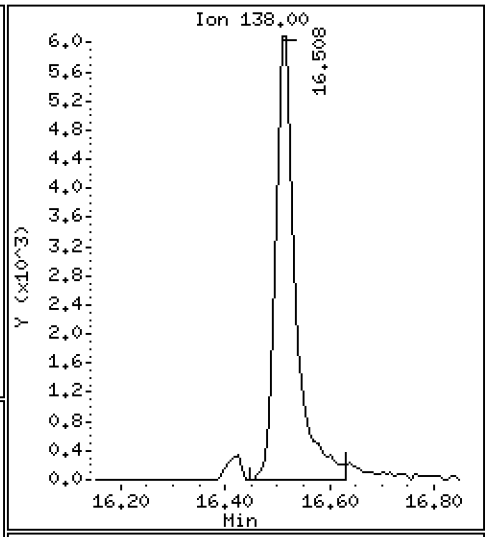
Concentration: 0.8313 ug/mL

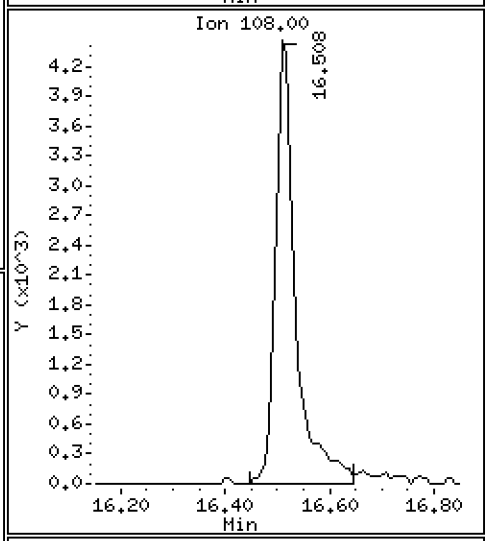


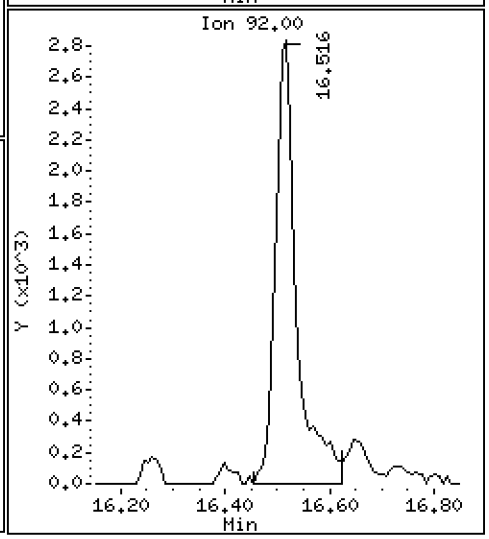












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

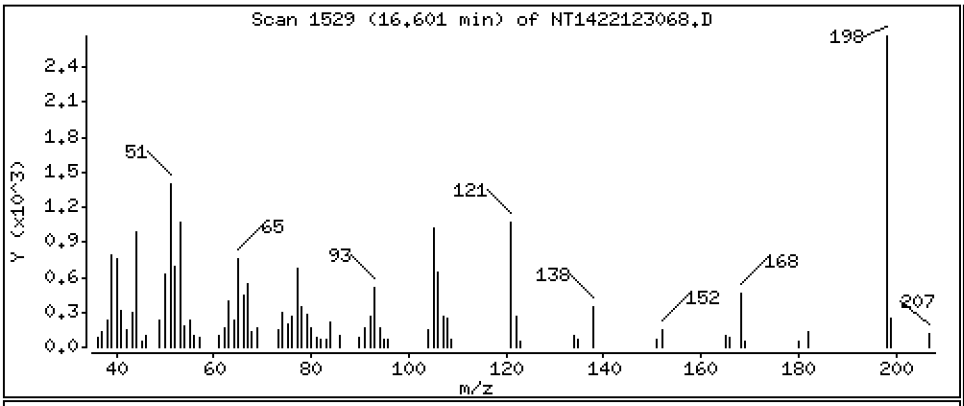
Operator: VTS

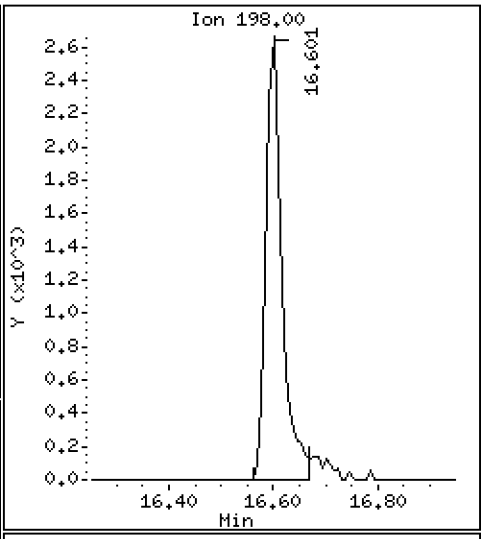
Column phase: ZB-5msi

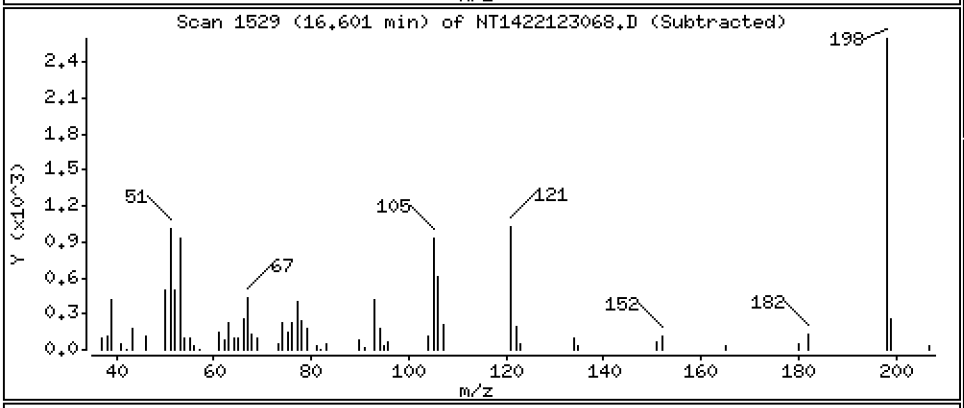
Column diameter: 0.25

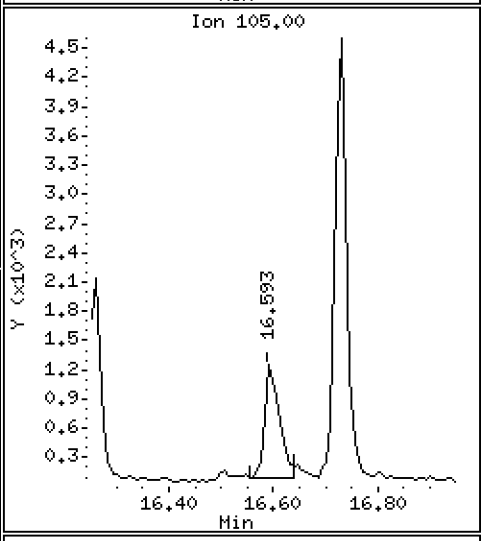
53 4,6-Dinitro-2-methylphenol

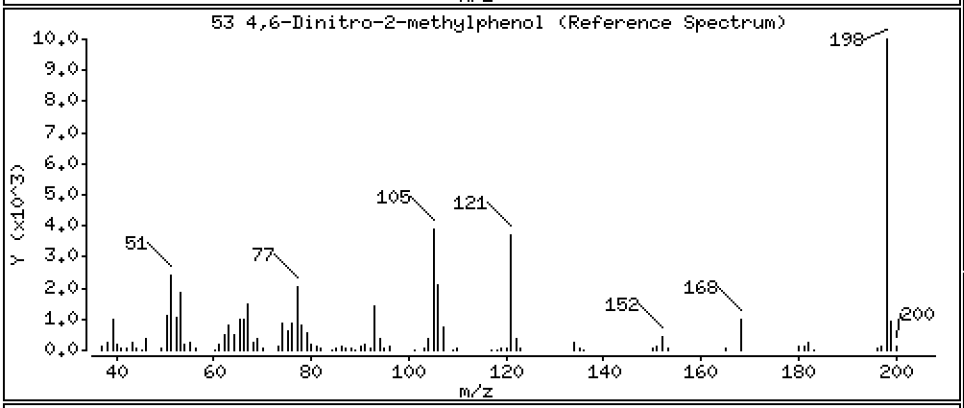
Concentration: 0.3826 ug/mL

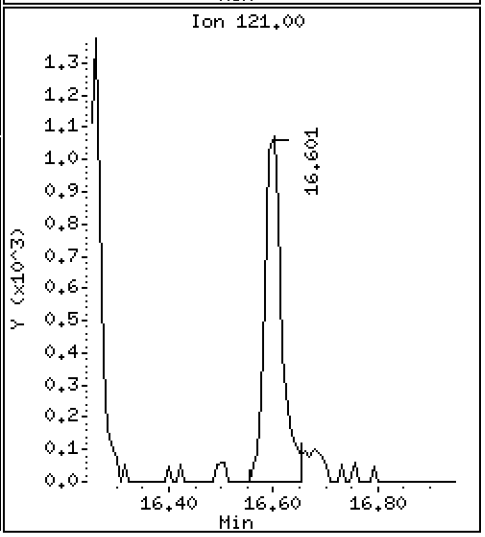


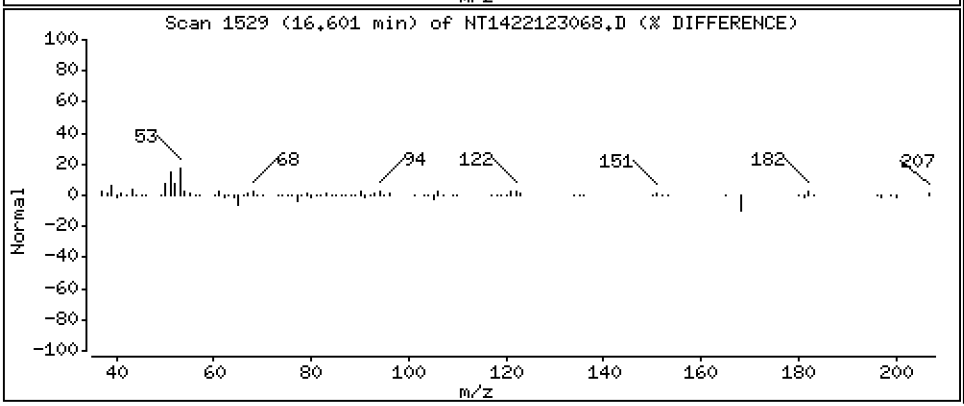












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

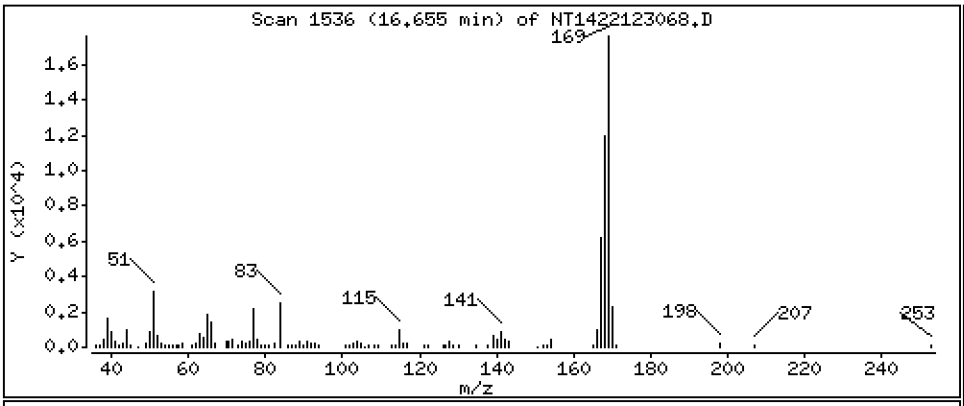
Operator: VTS

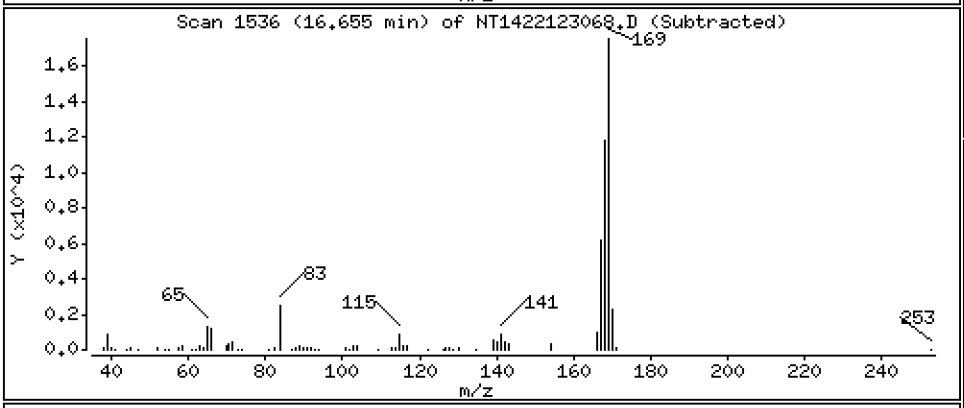
Column phase: ZB-5msi

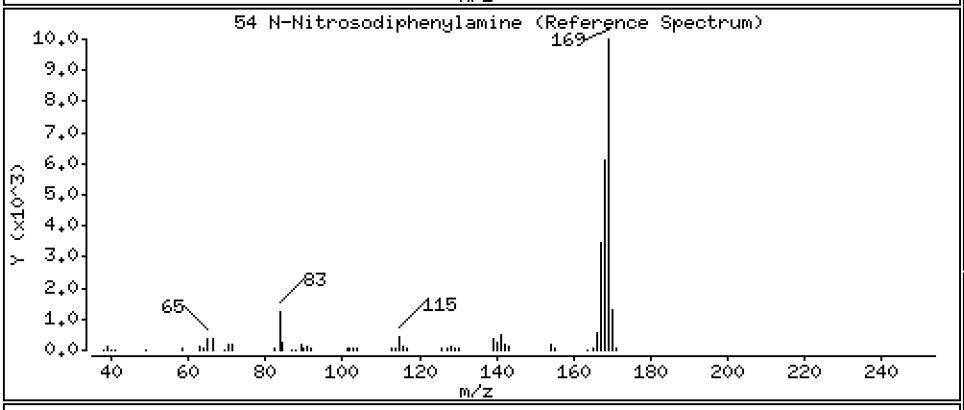
Column diameter: 0.25

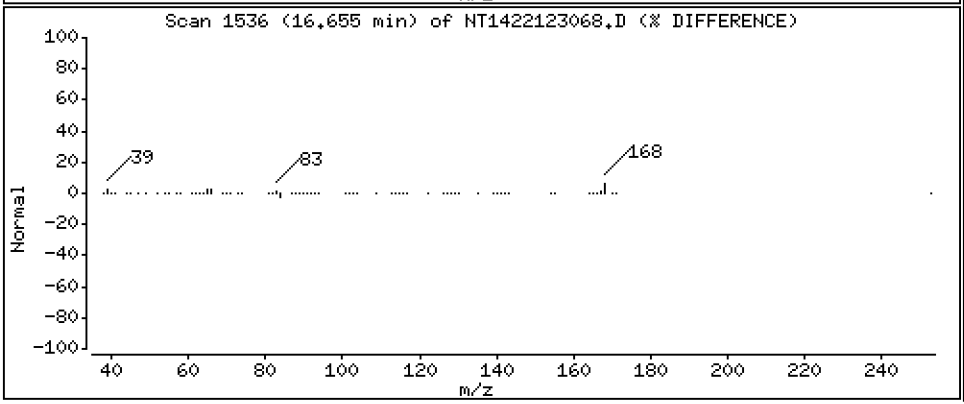
54 N-Nitrosodiphenylamine

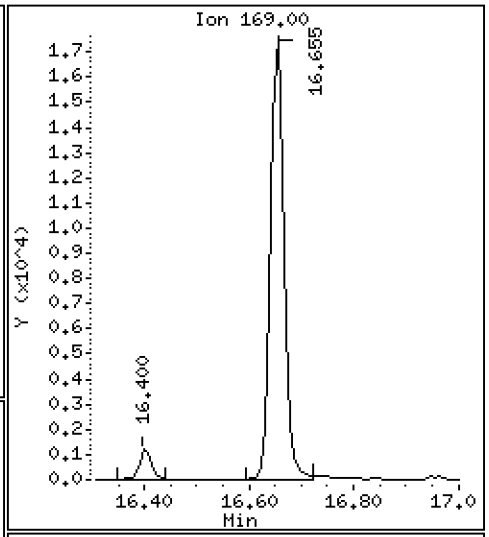
Concentration: 0.5115 ug/mL

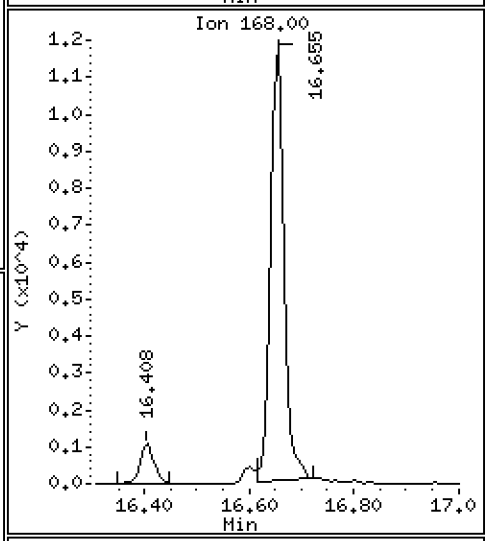


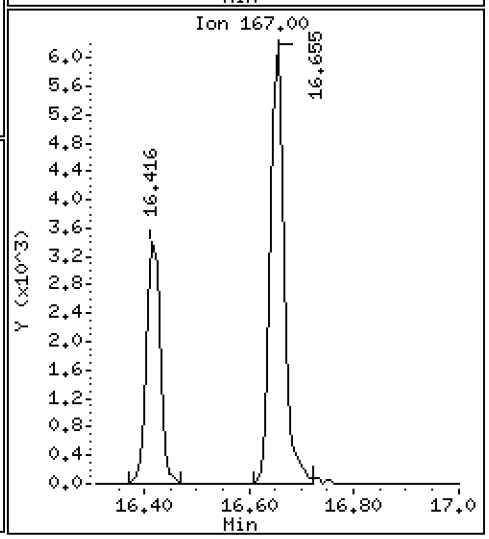












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

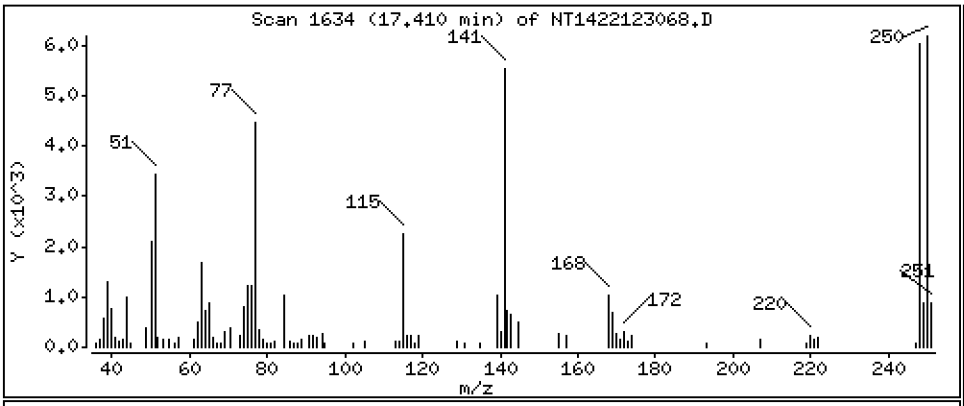
Operator: VTS

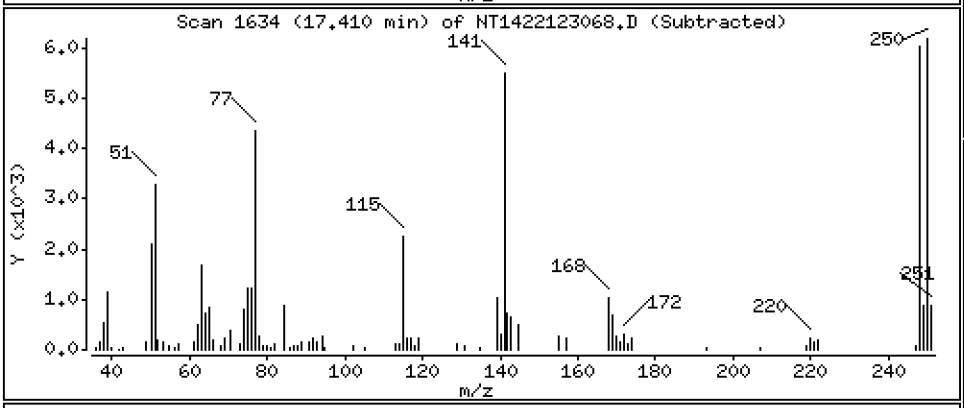
Column phase: ZB-5msi

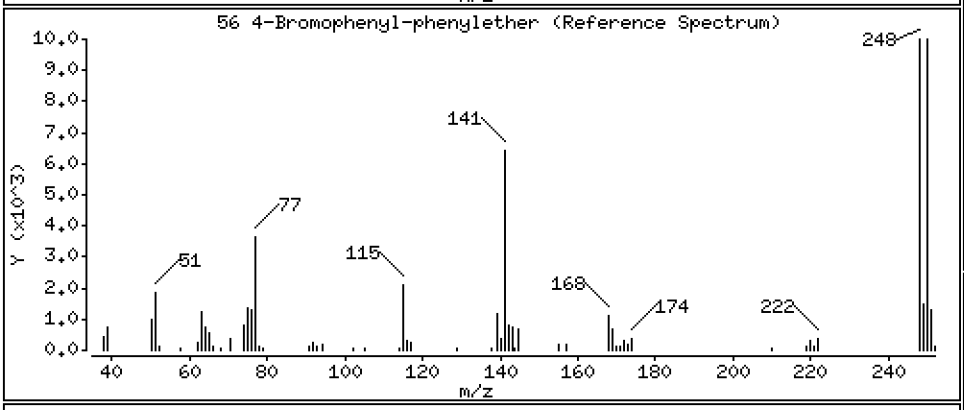
Column diameter: 0.25

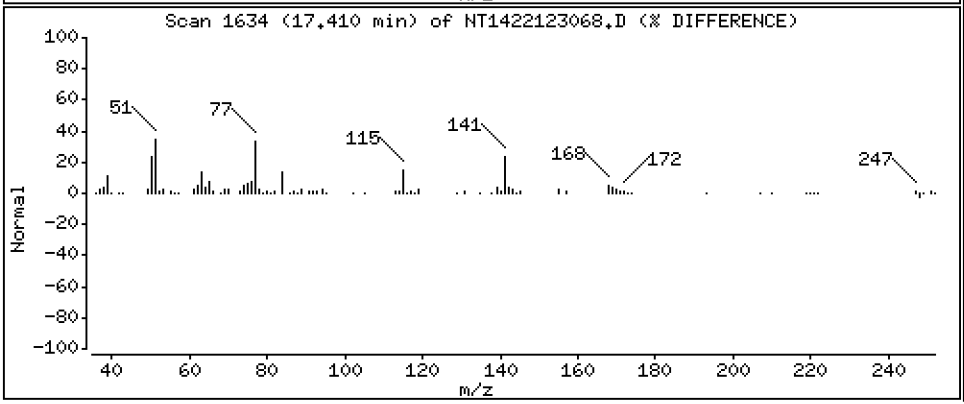
56 4-Bromophenyl-phenylether

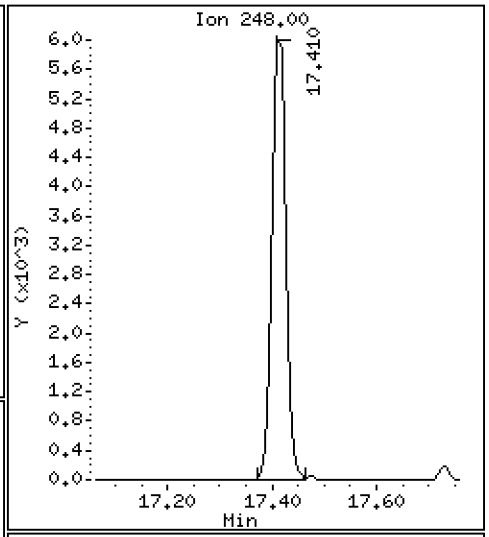
Concentration: 0.4732 ug/mL

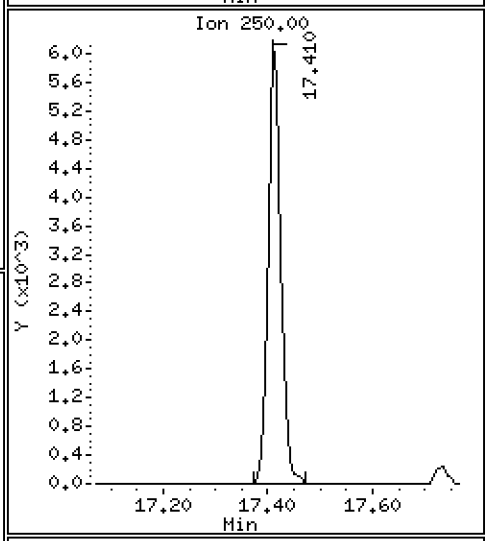


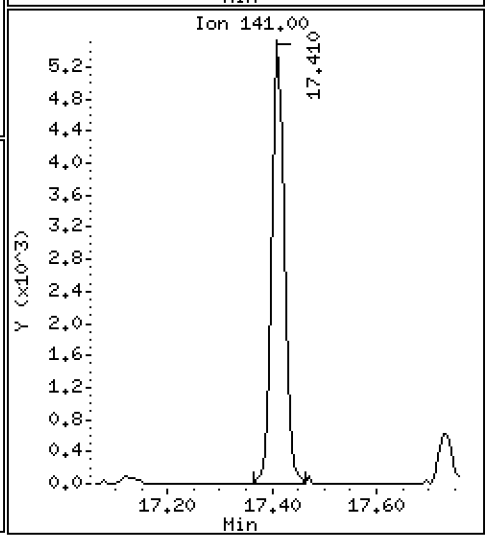












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

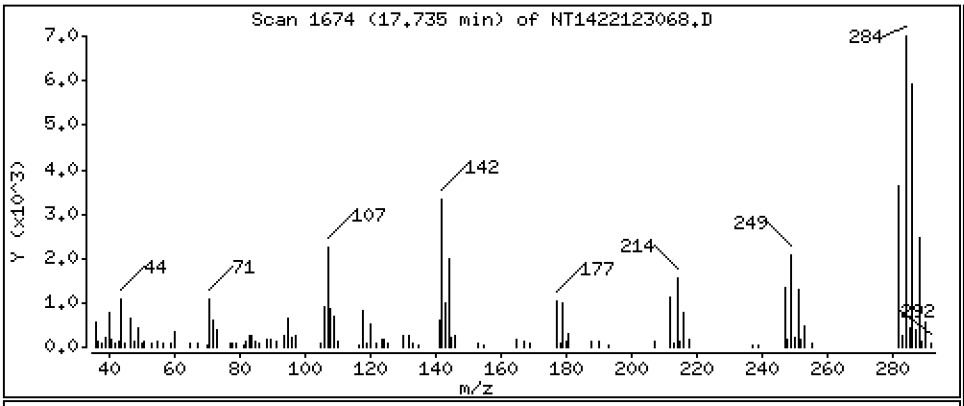
Operator: VTS

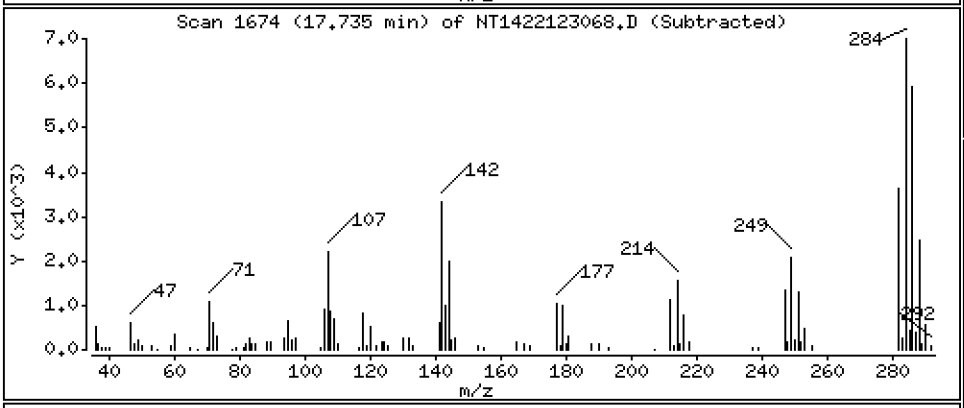
Column phase: ZB-5msi

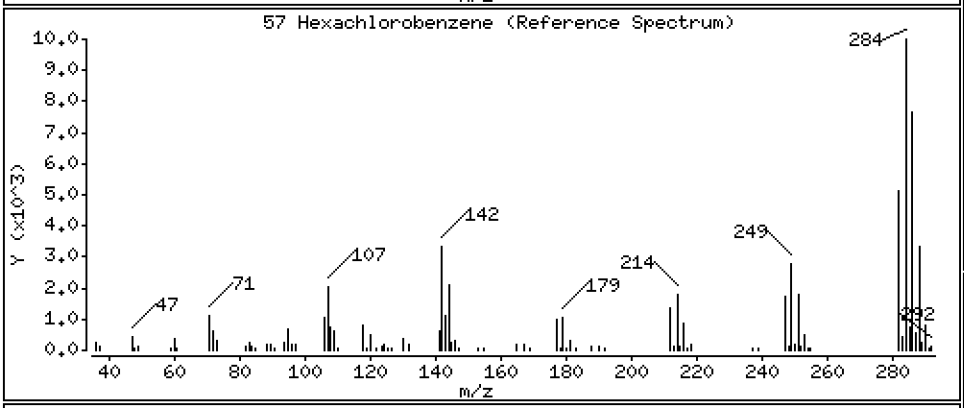
Column diameter: 0.25

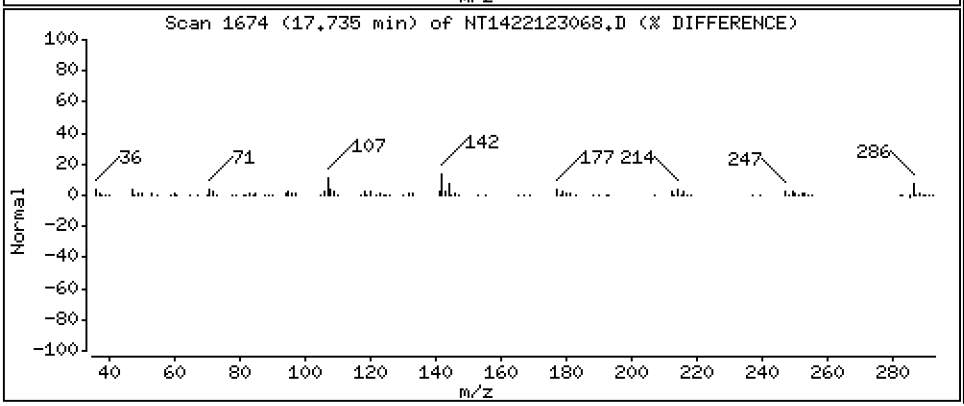
57 Hexachlorobenzene

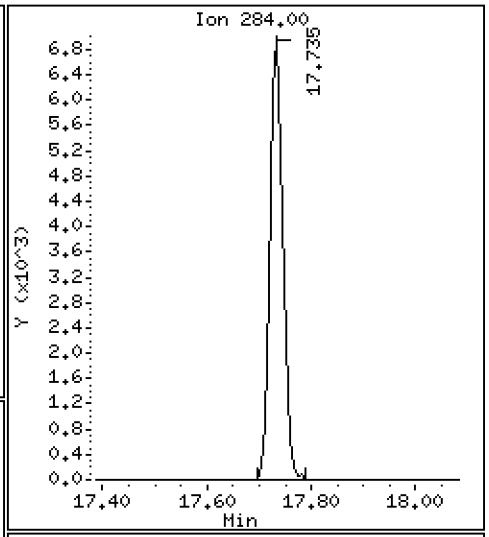
Concentration: 0.4872 ug/mL

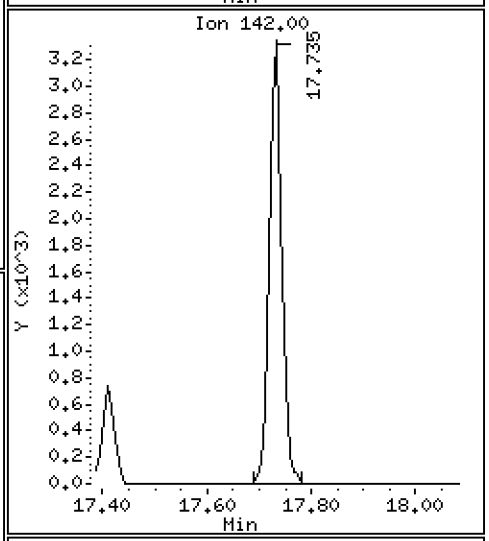


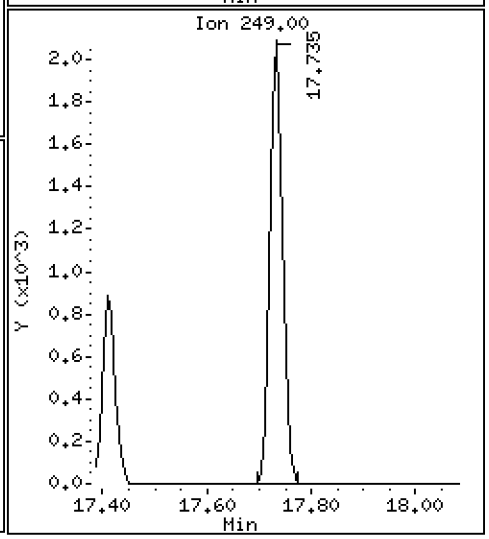












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

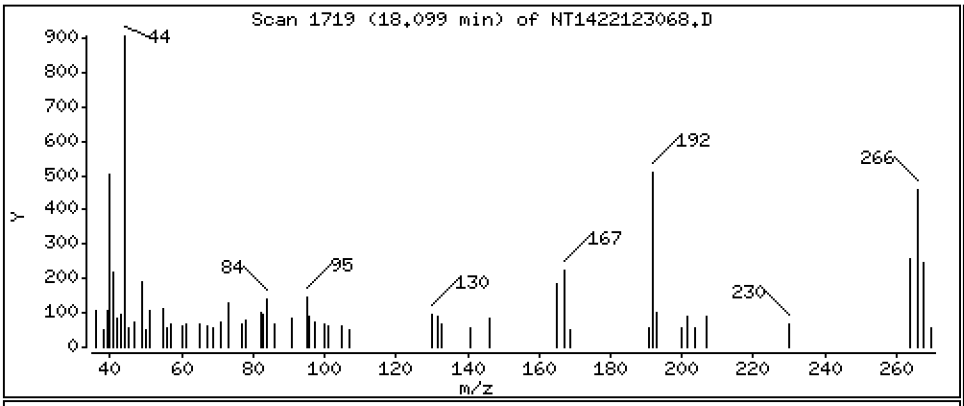
Operator: VTS

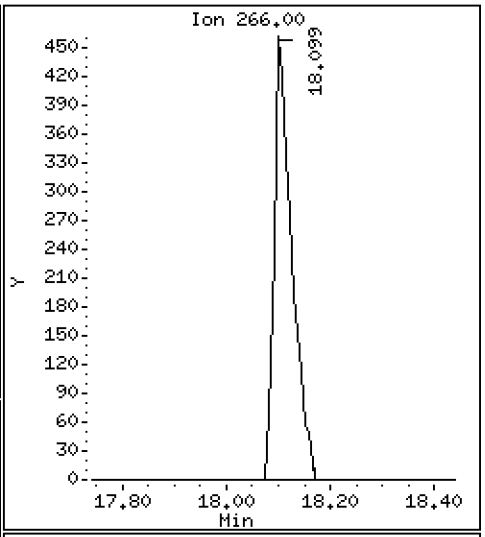
Column phase: ZB-5msi

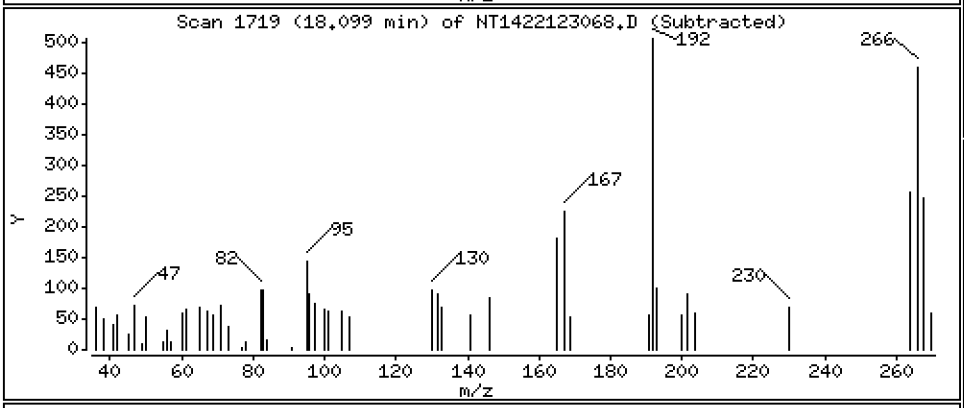
Column diameter: 0.25

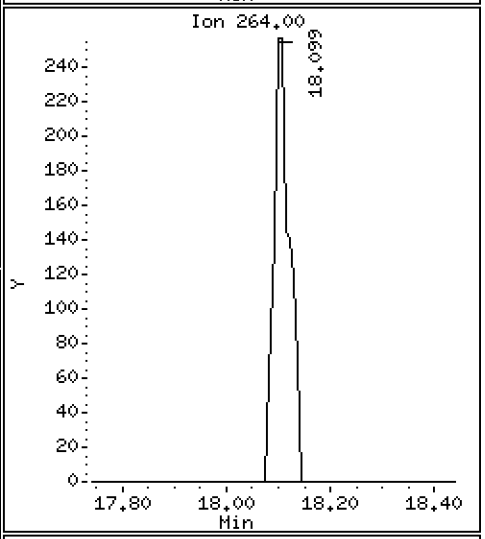
58 Pentachlorophenol

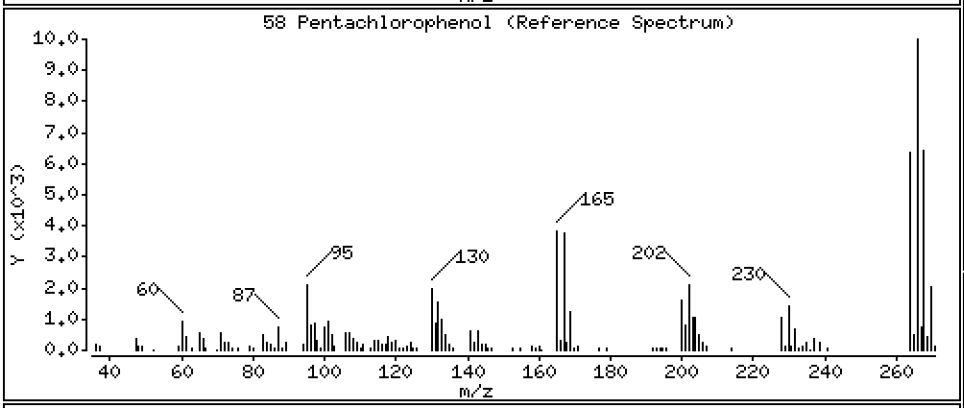
Concentration: 0.1037 ug/mL

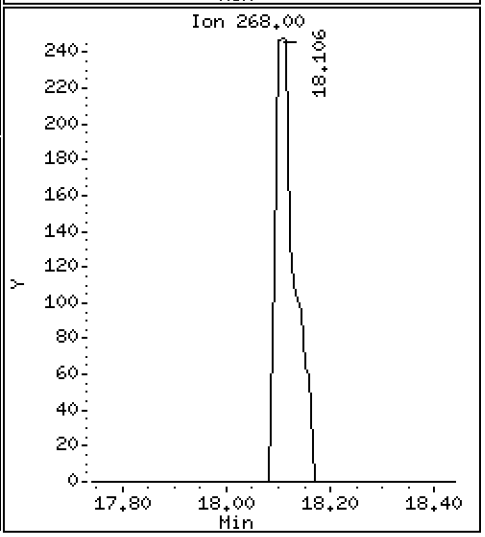


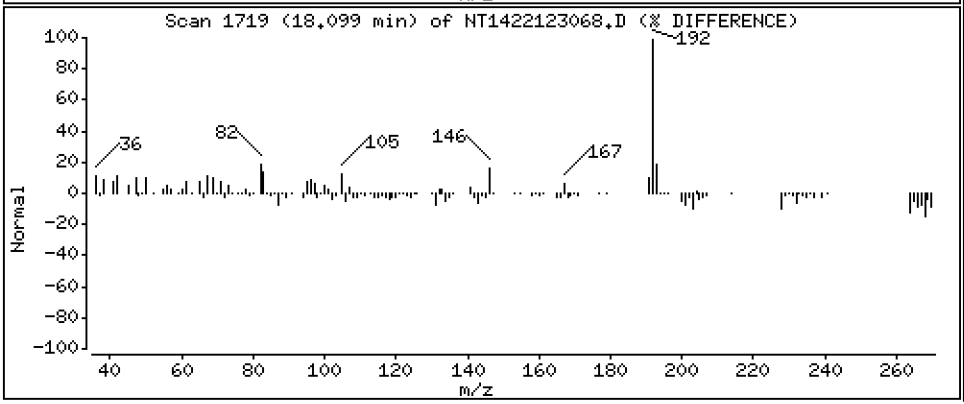












Data File: \\target\share\chem3\nt14.i\20221230C.b\NT1422123068.D

Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

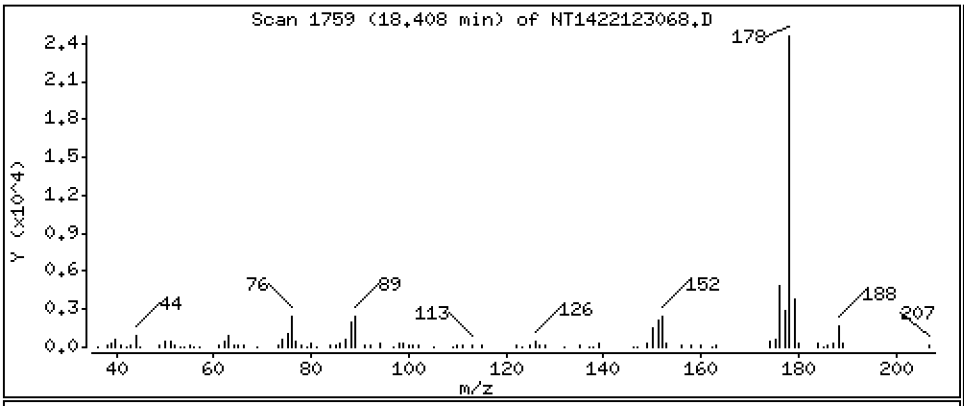
Operator: VTS

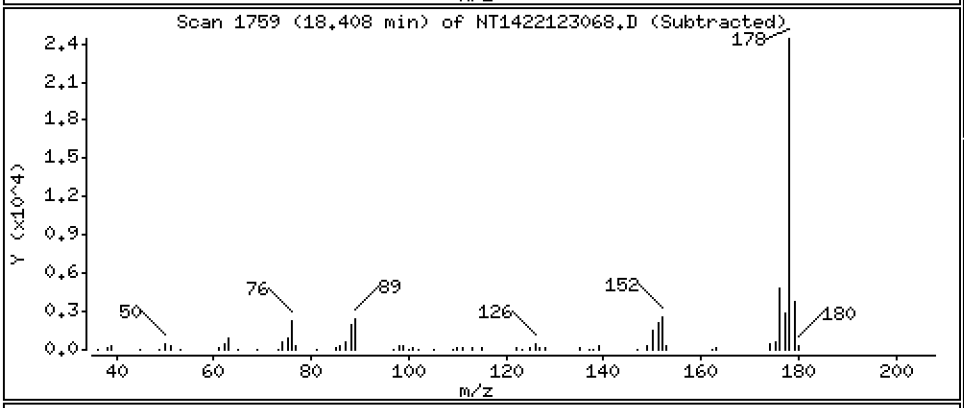
Column phase: ZB-5msi

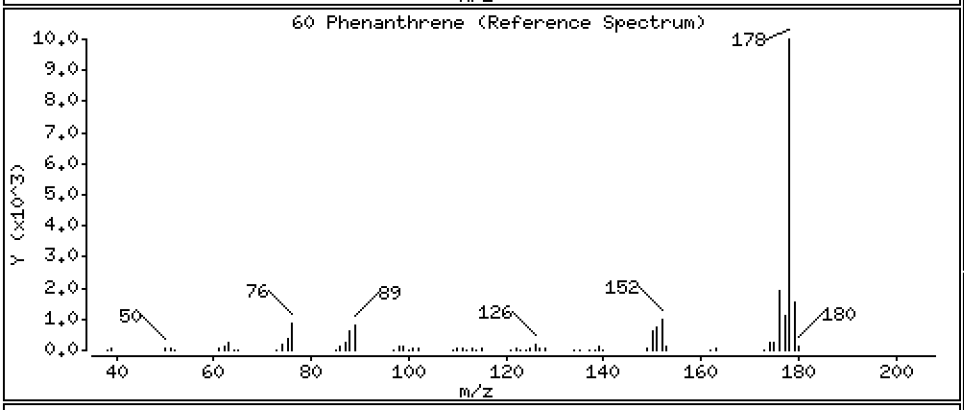
Column diameter: 0.25

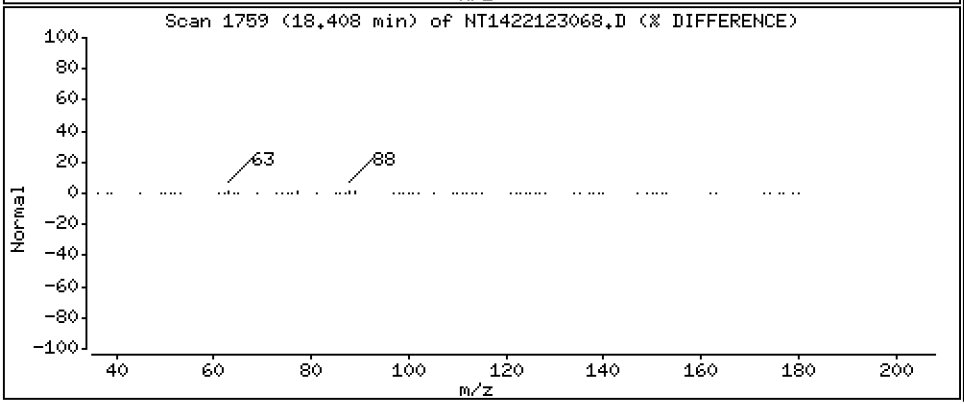
60 Phenanthrene

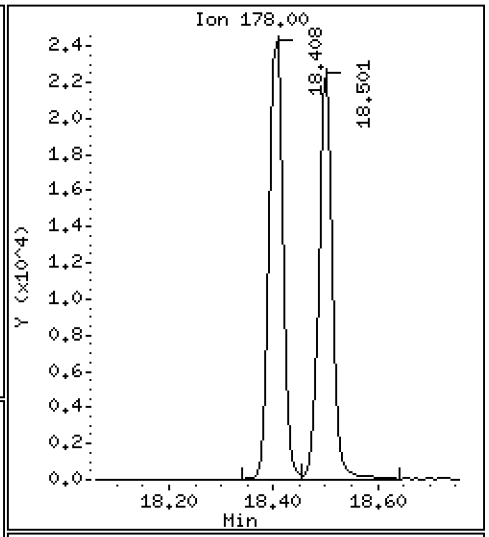
Concentration: 0.4832 ug/mL

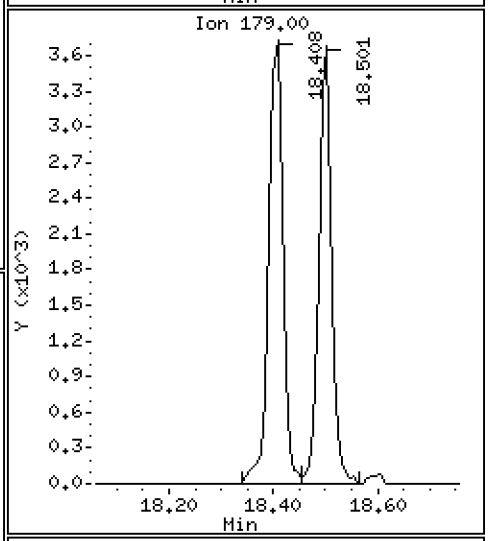


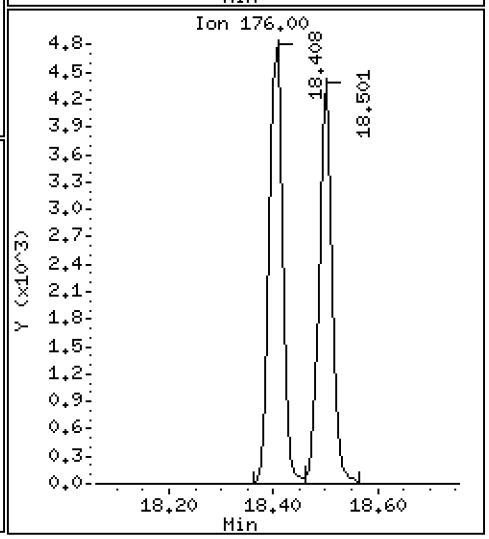












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

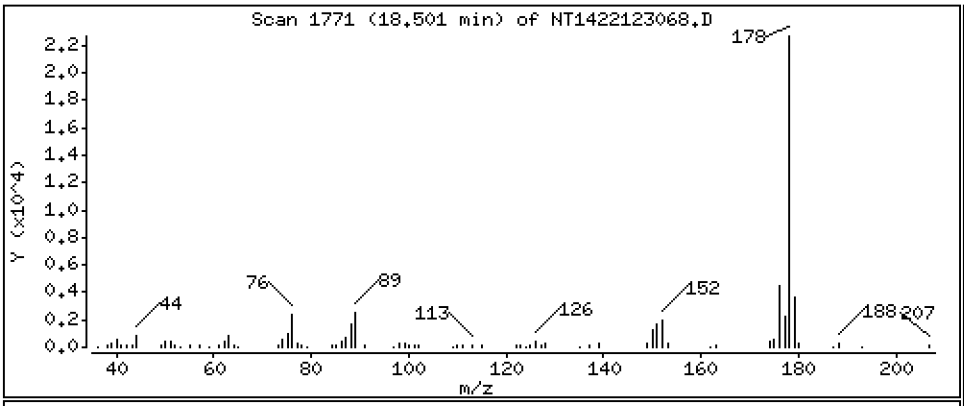
Operator: VTS

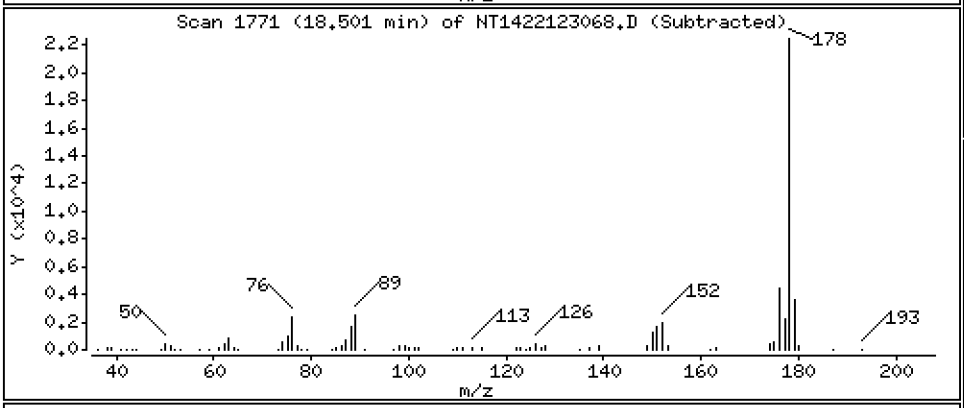
Column phase: ZB-5msi

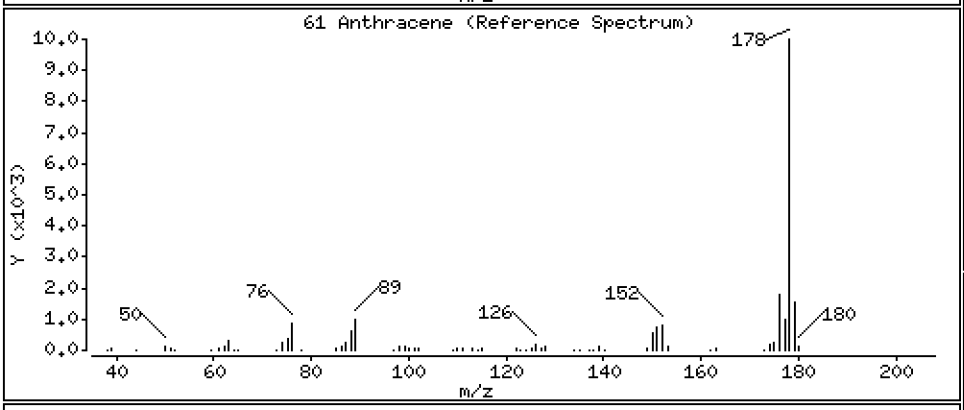
Column diameter: 0.25

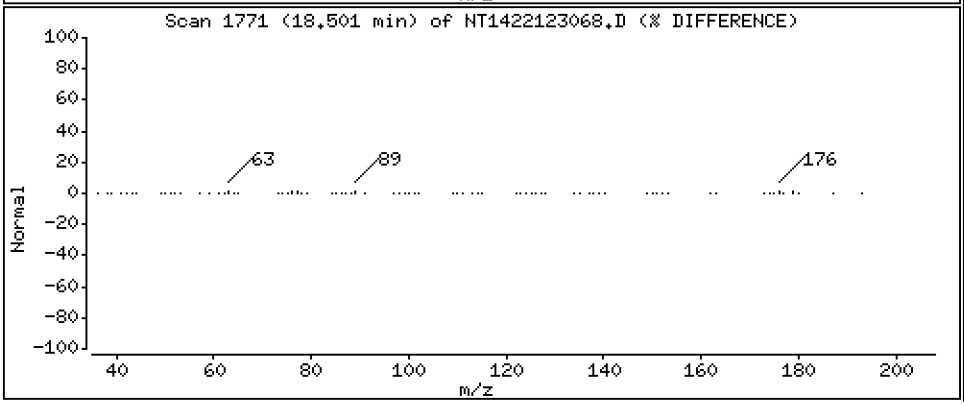
61 Anthracene

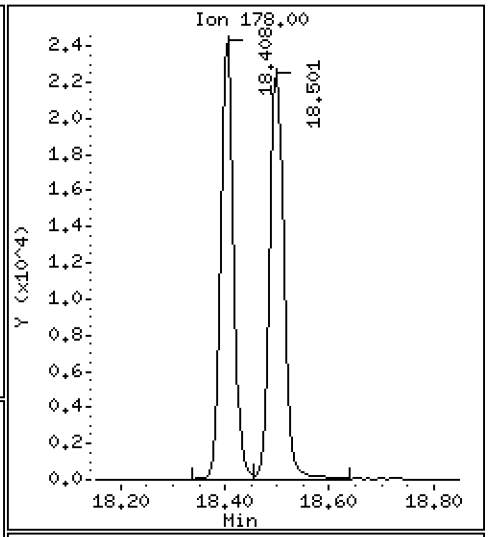
Concentration: 0.4848 ug/mL

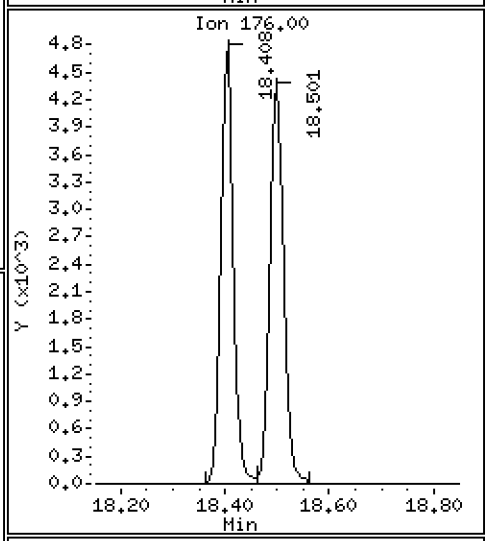


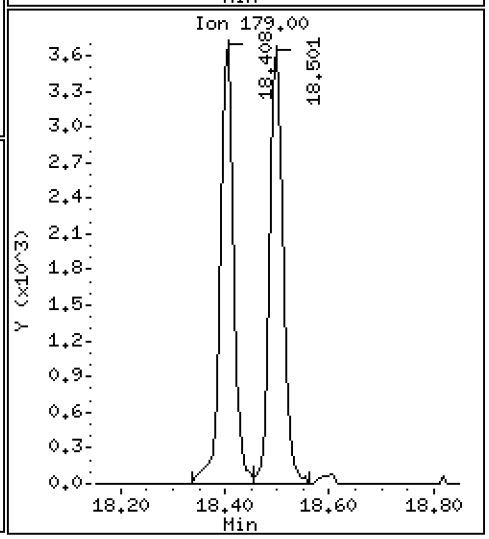












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

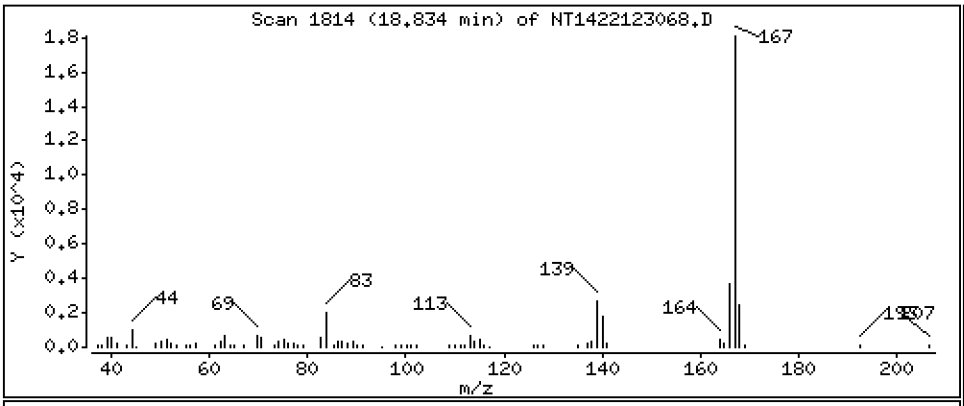
Operator: VTS

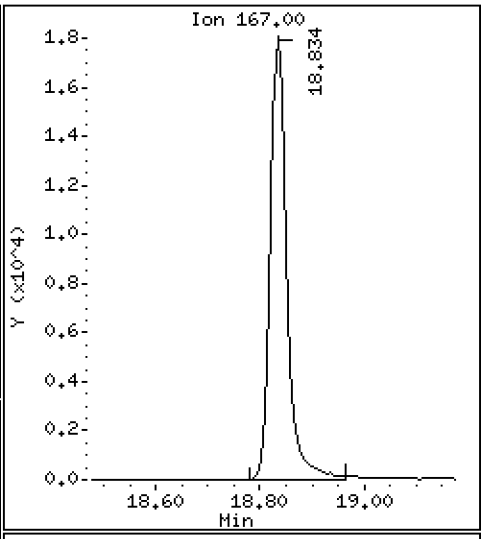
Column phase: ZB-5msi

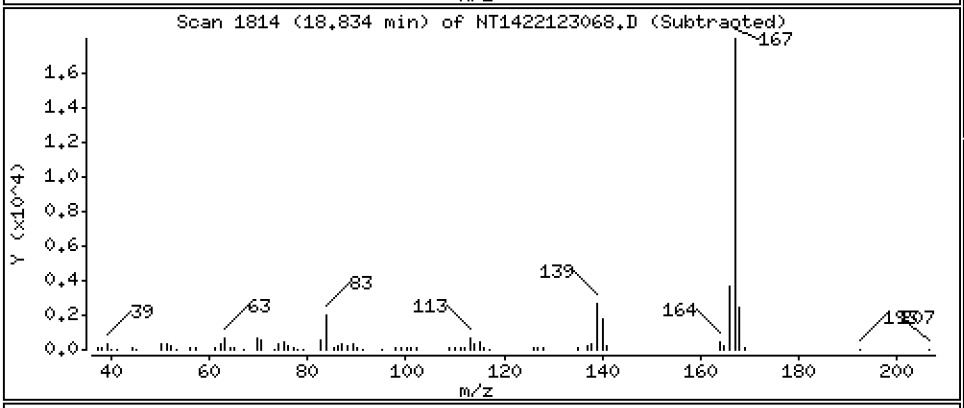
Column diameter: 0.25

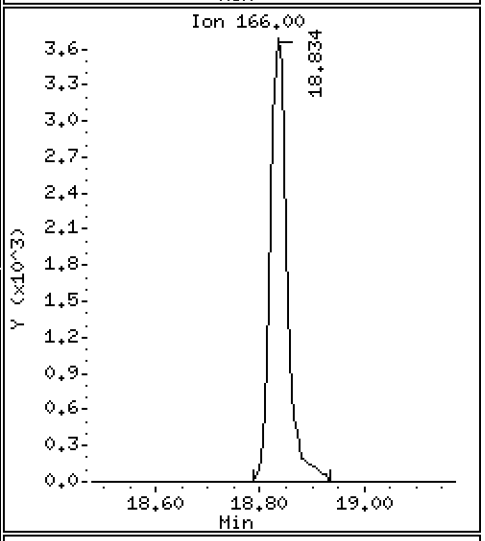
62 Carbazole

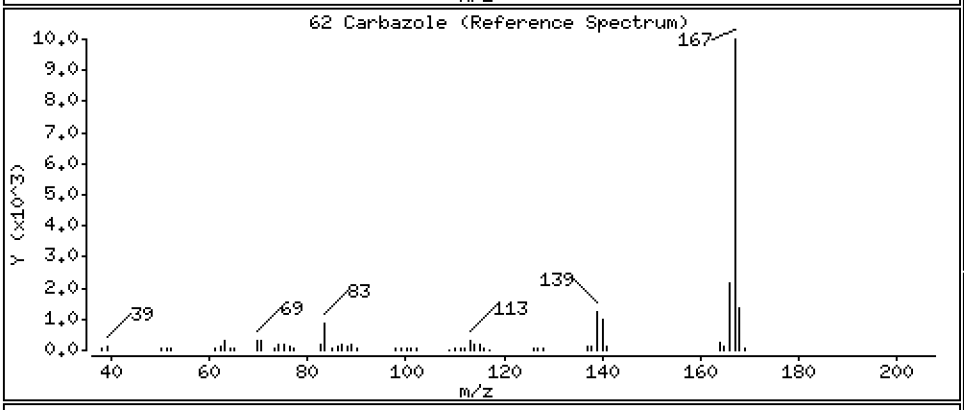
Concentration: 0.4681 ug/mL

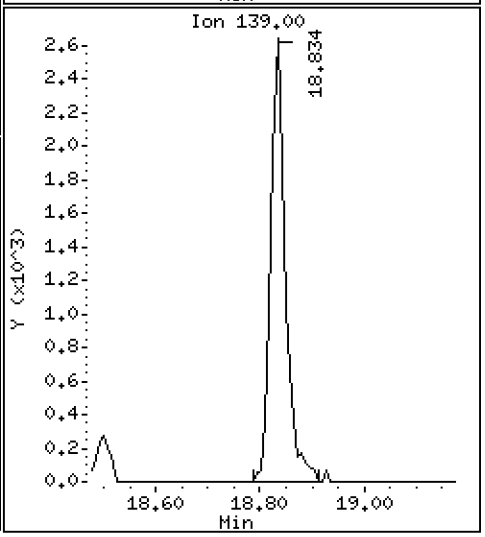


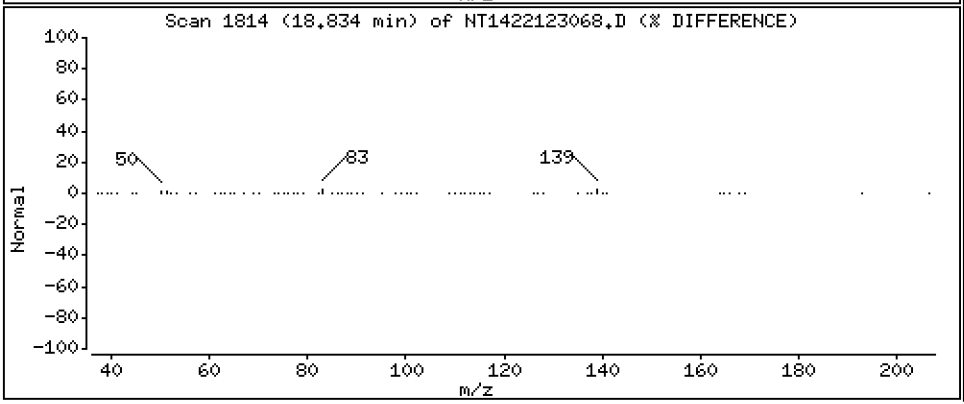












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

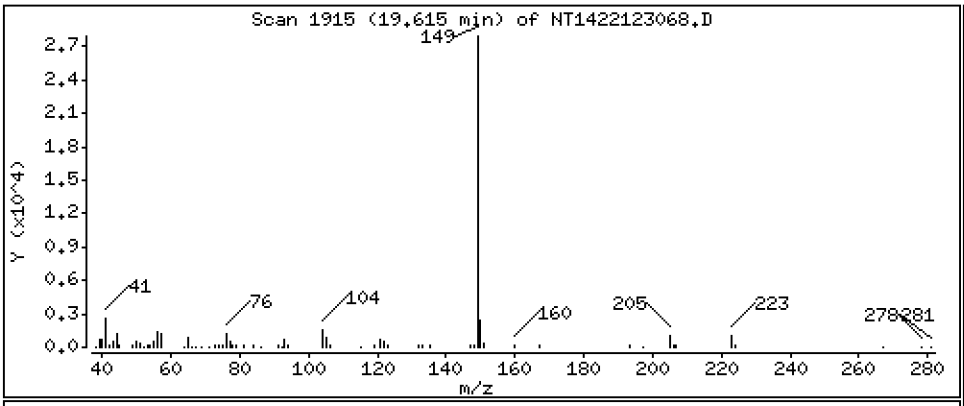
Operator: VTS

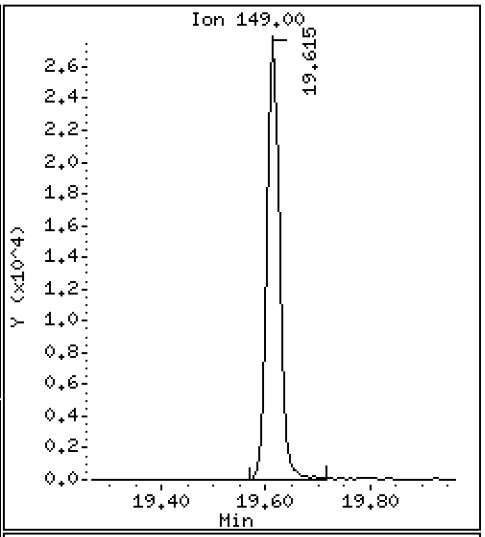
Column phase: ZB-5msi

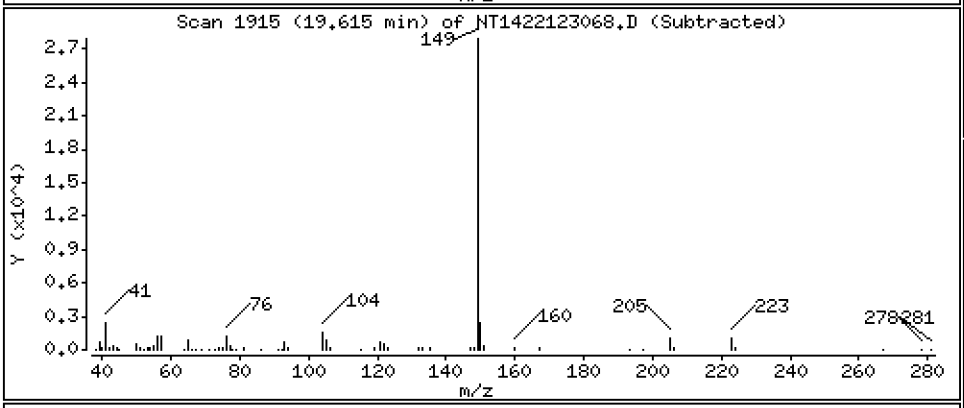
Column diameter: 0.25

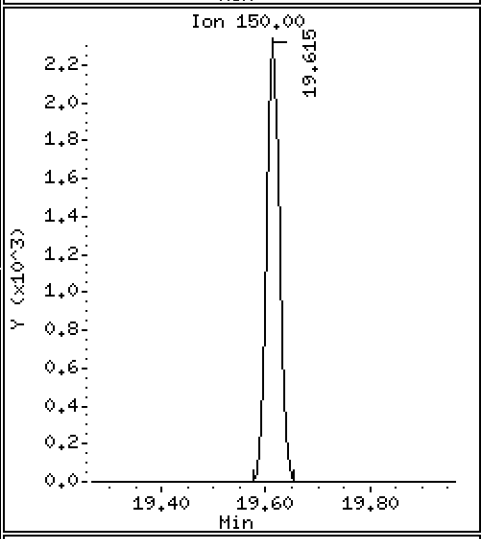
63 Di-n-butylphthalate

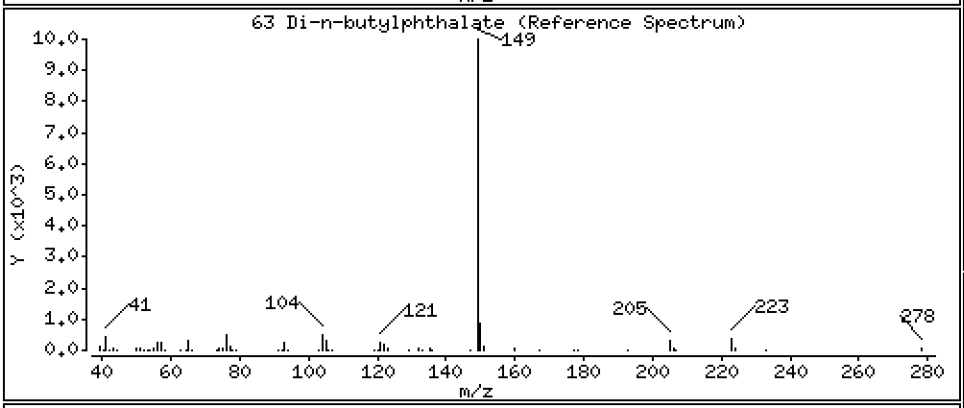
Concentration: 0.4789 ug/mL

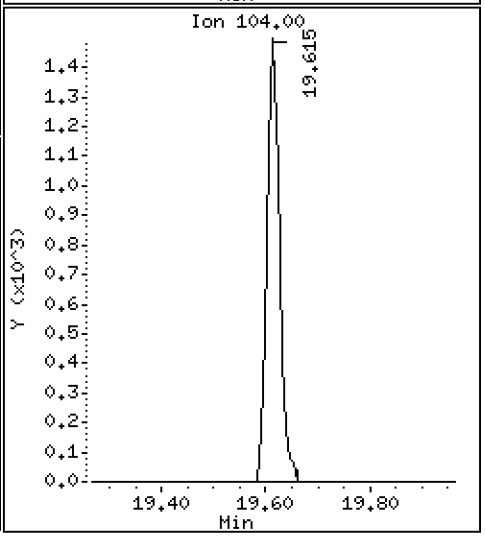


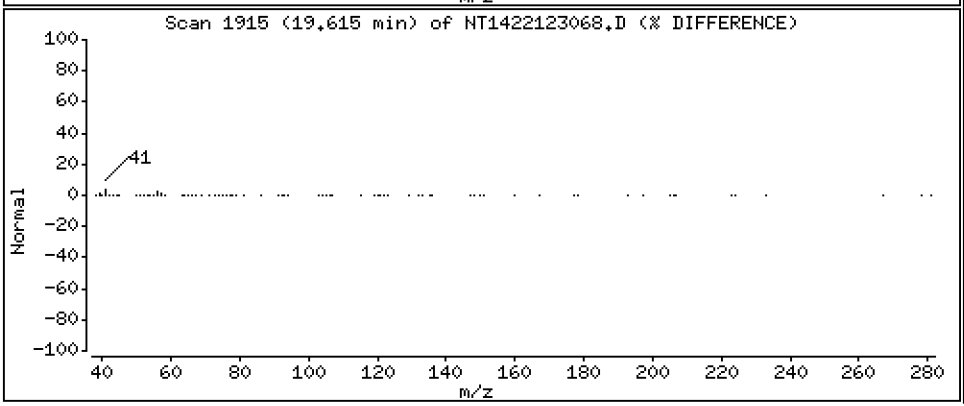












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

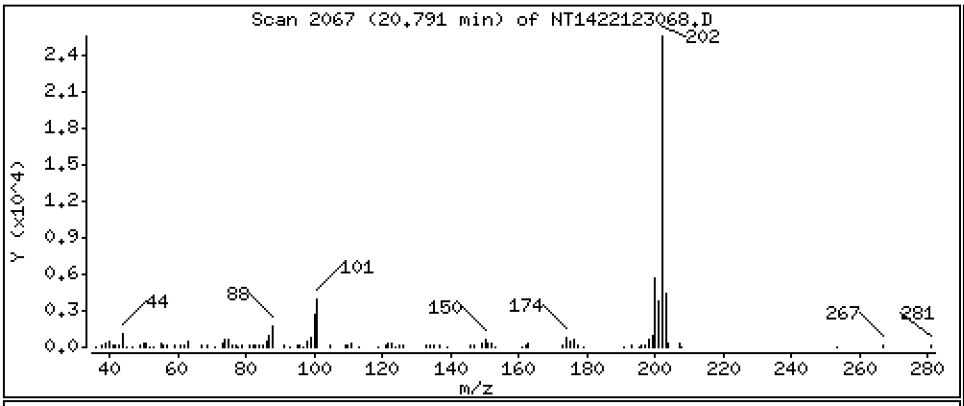
Operator: VTS

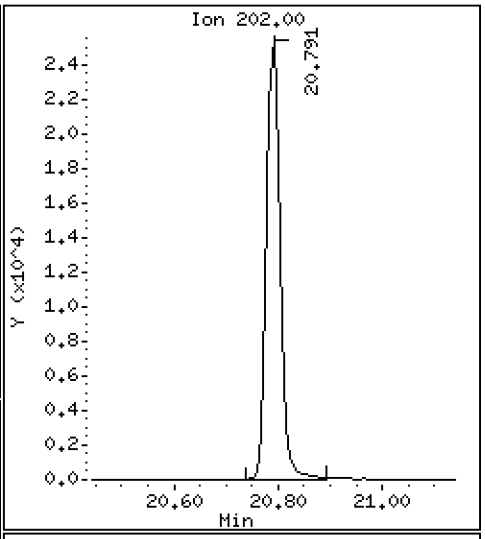
Column phase: ZB-5msi

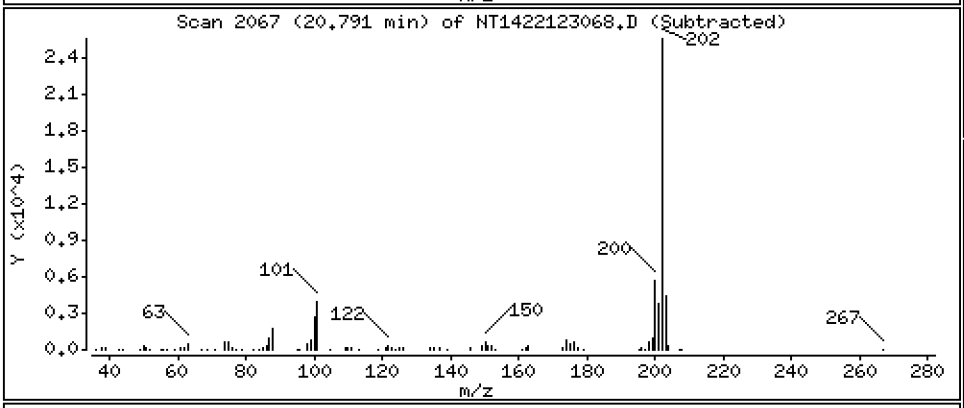
Column diameter: 0.25

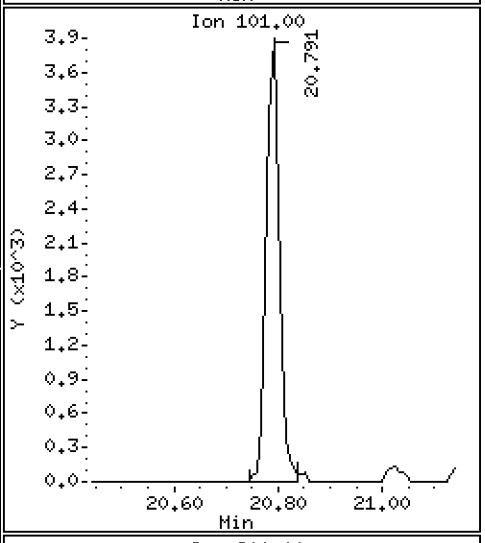
64 Fluoranthene

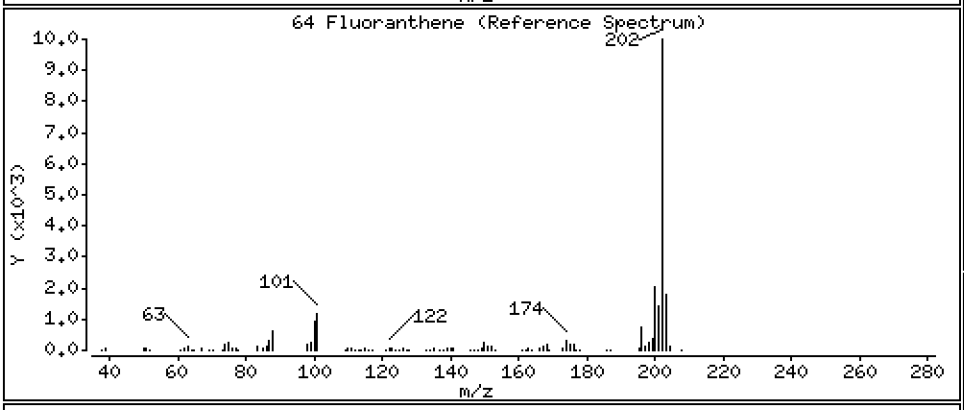
Concentration: 0.4720 ug/mL

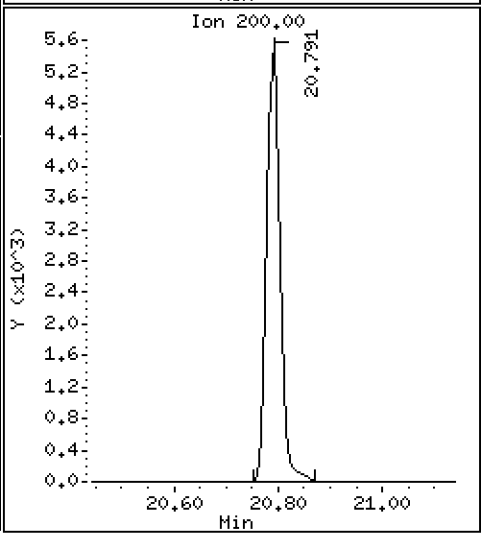


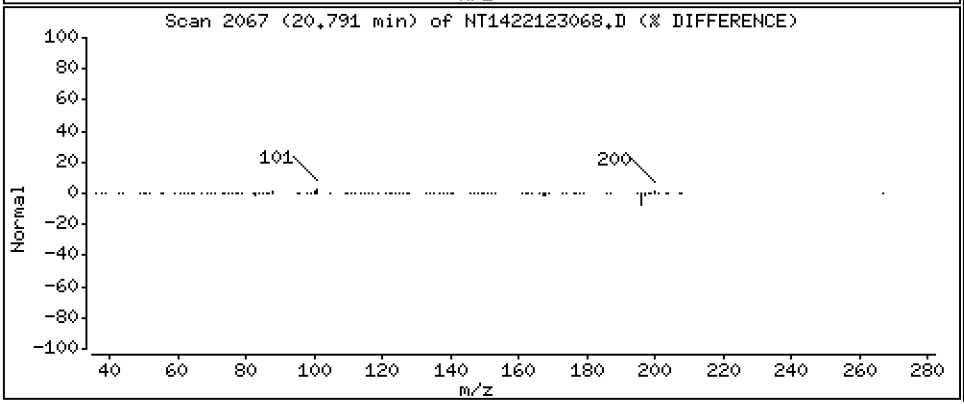












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

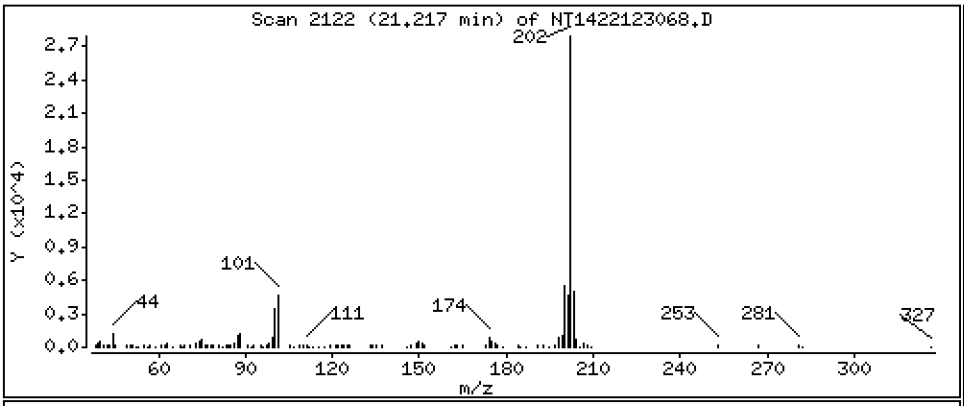
Operator: VTS

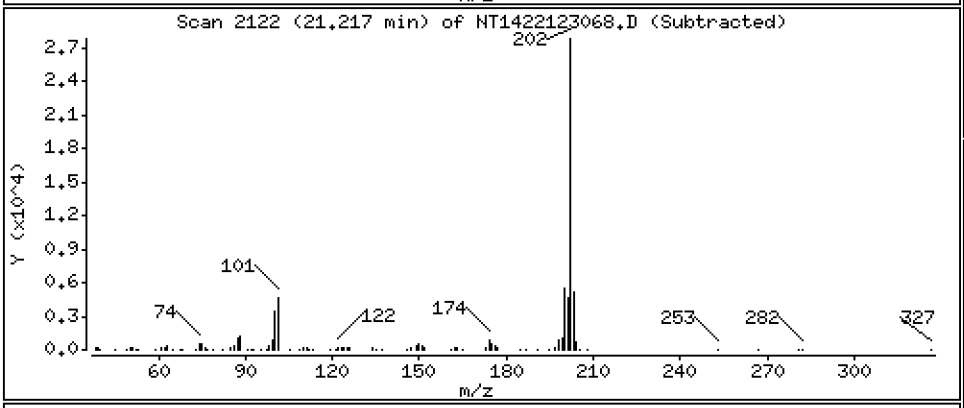
Column phase: ZB-5msi

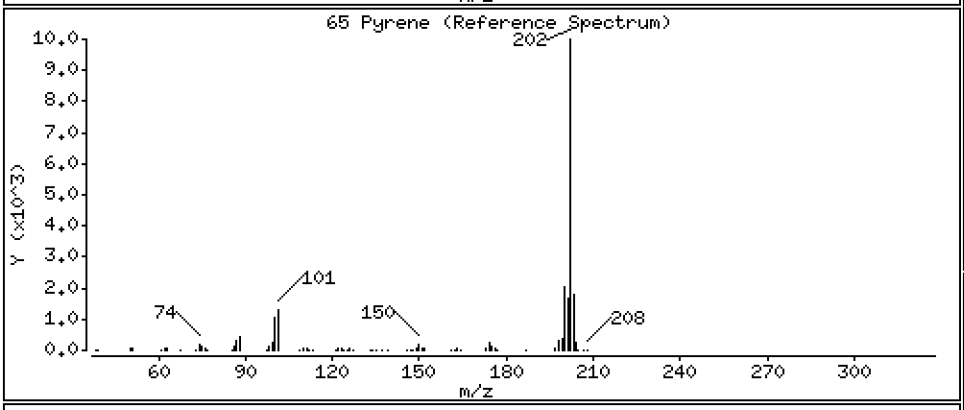
Column diameter: 0.25

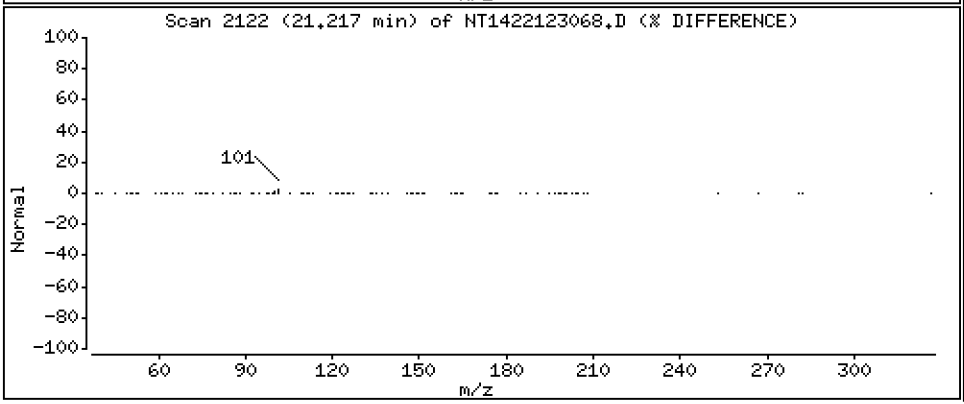
65 Pyrene

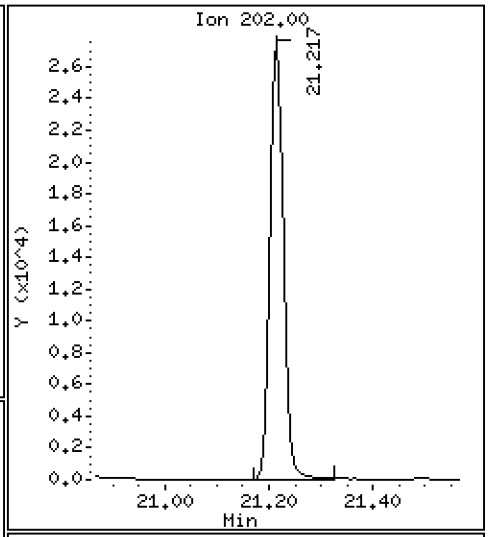
Concentration: 0.4811 ug/mL

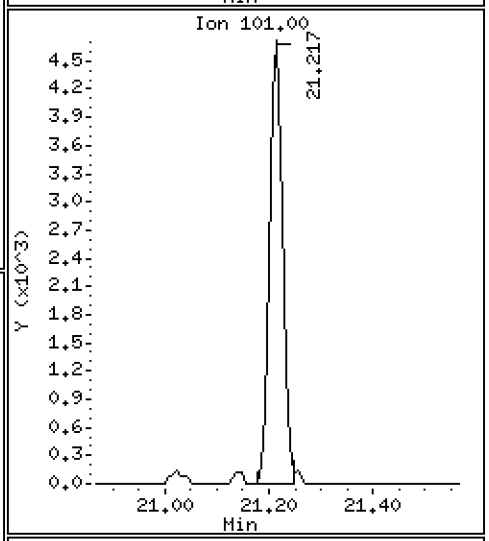


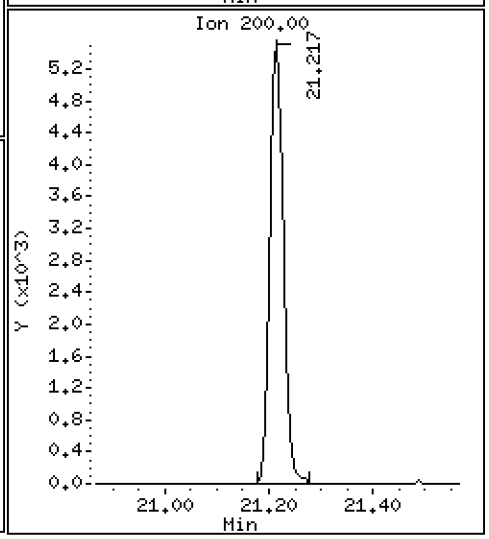












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

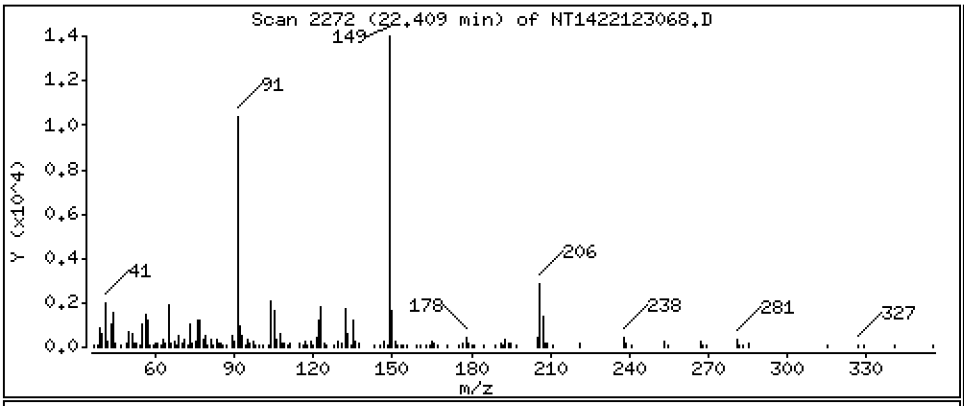
Operator: VTS

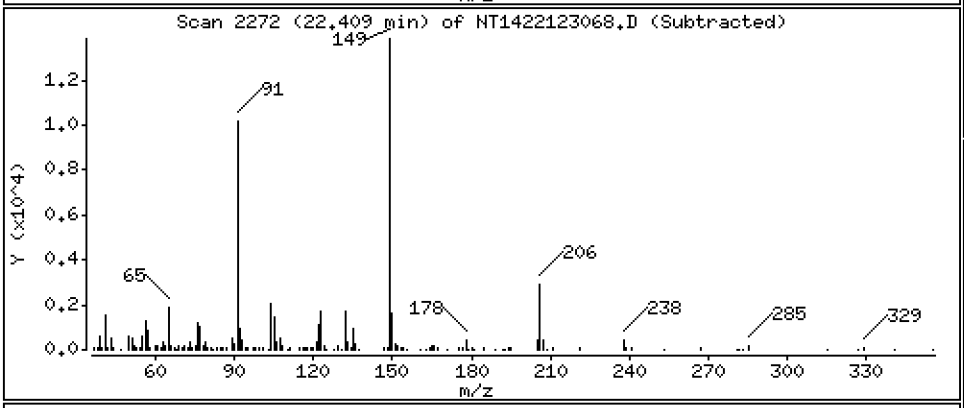
Column phase: ZB-5msi

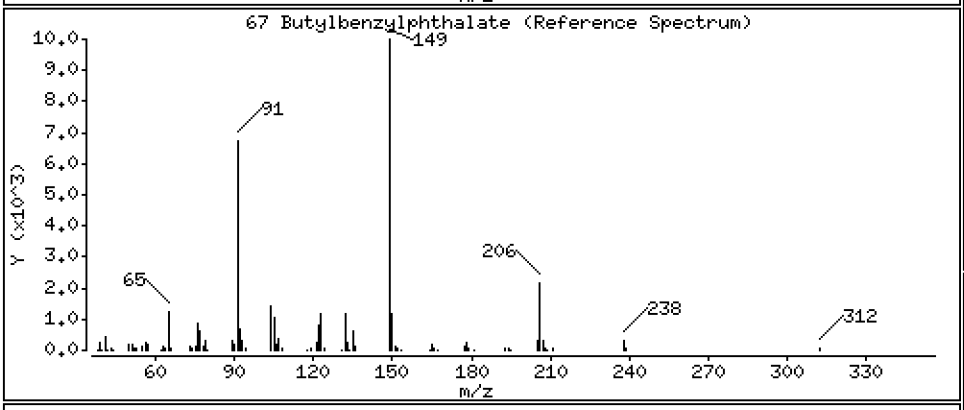
Column diameter: 0.25

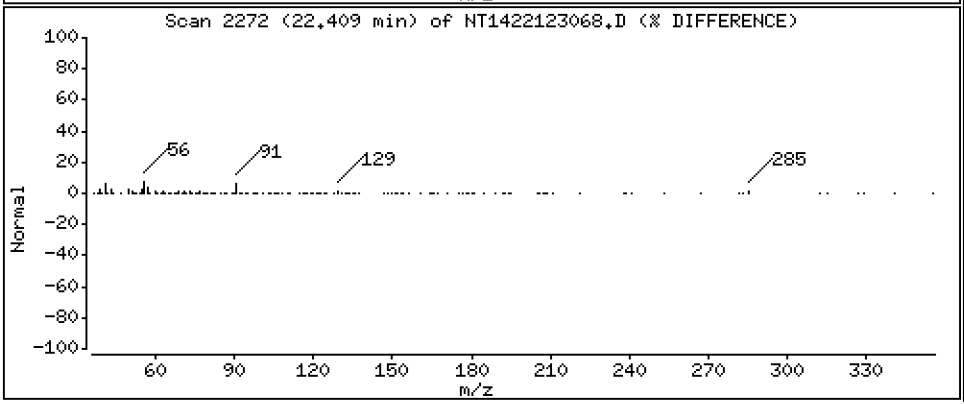
67 Butylbenzylphthalate

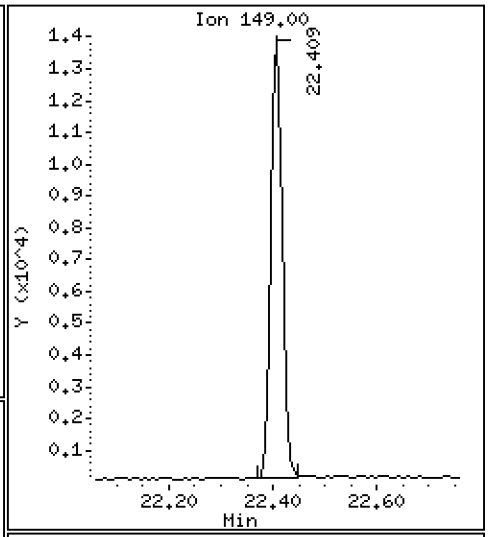
Concentration: 0.5261 ug/mL

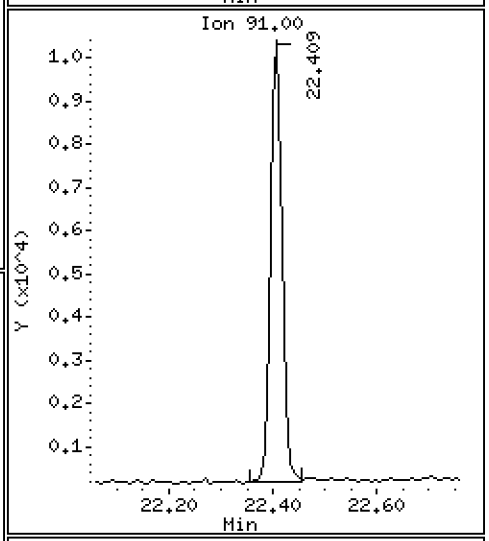


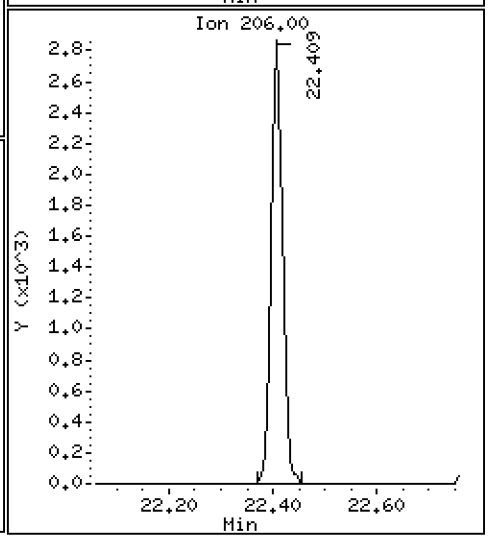












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

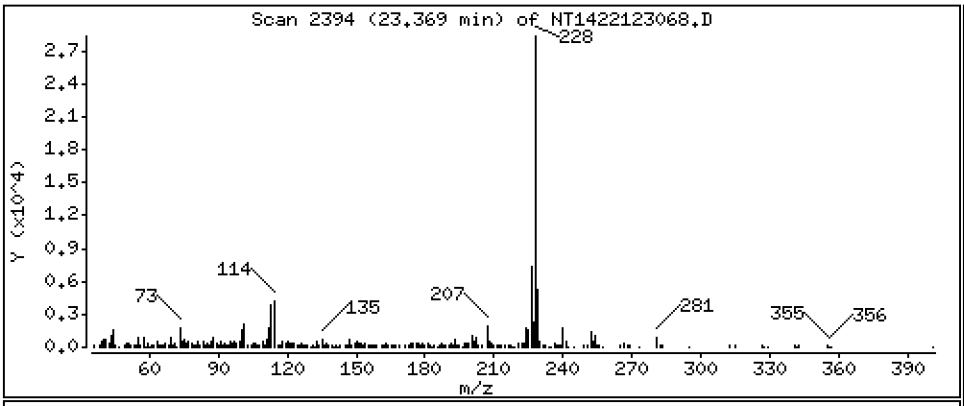
Operator: VTS

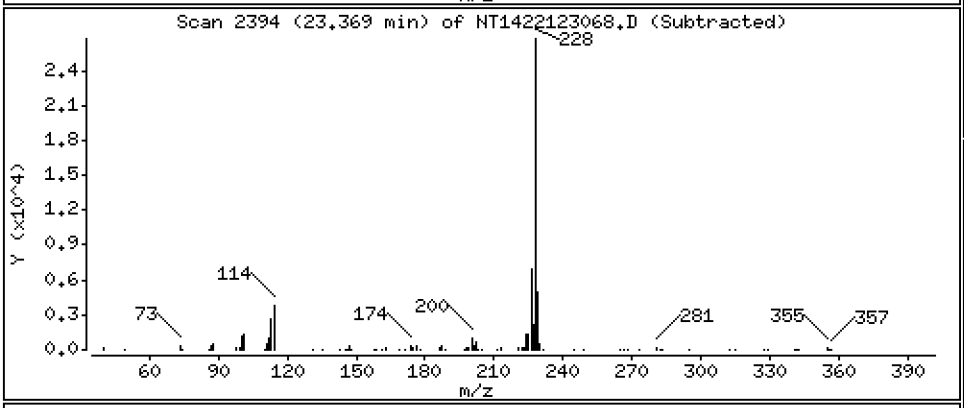
Column phase: ZB-5msi

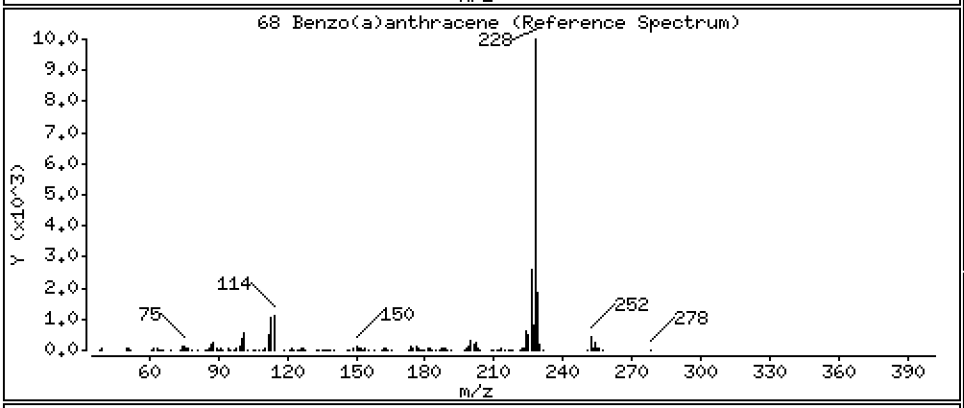
Column diameter: 0.25

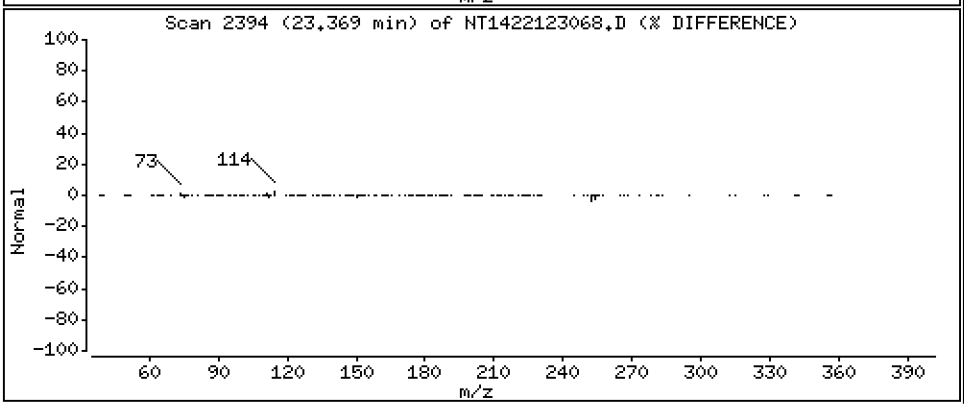
68 Benzo(a)anthracene

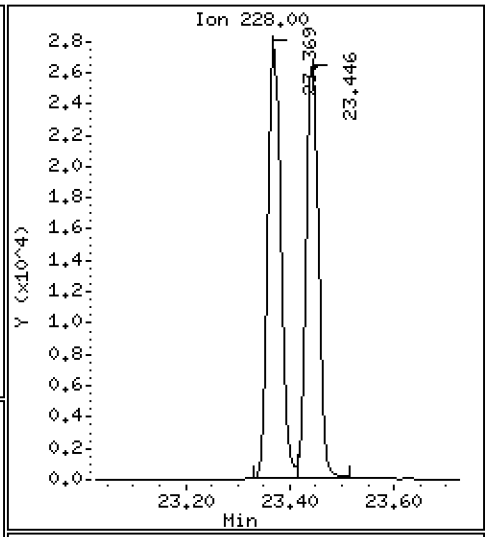
Concentration: 0.5206 ug/mL

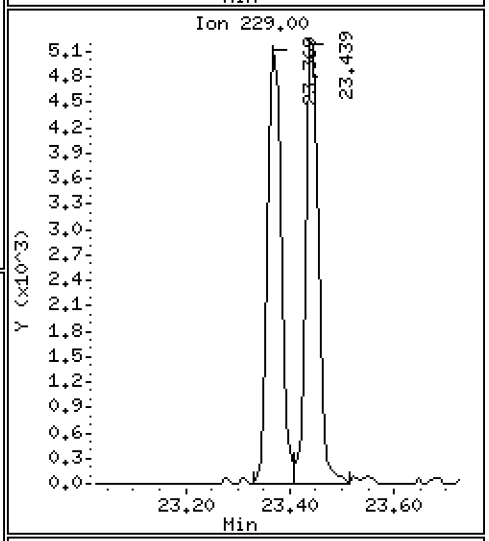


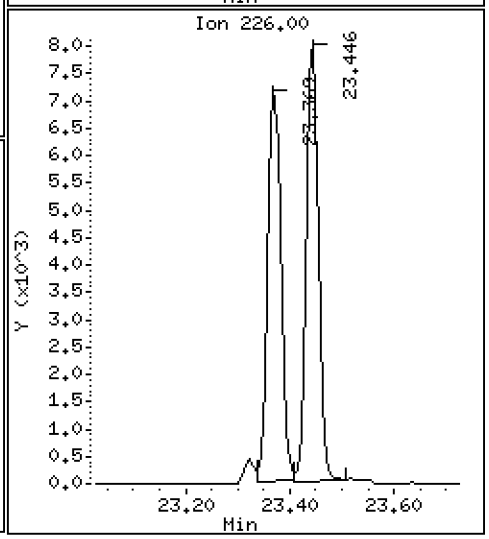












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

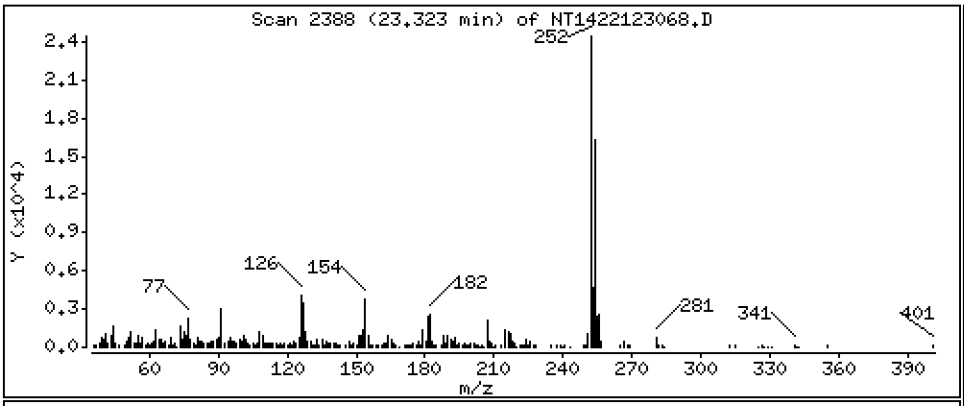
Operator: VTS

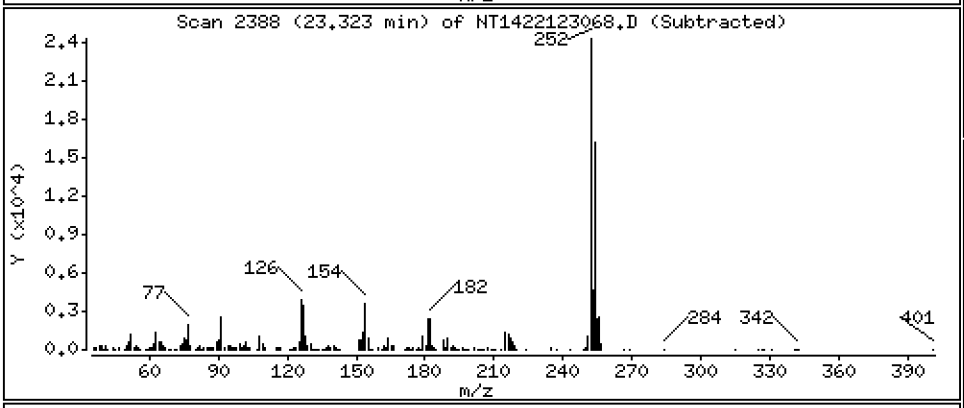
Column phase: ZB-5msi

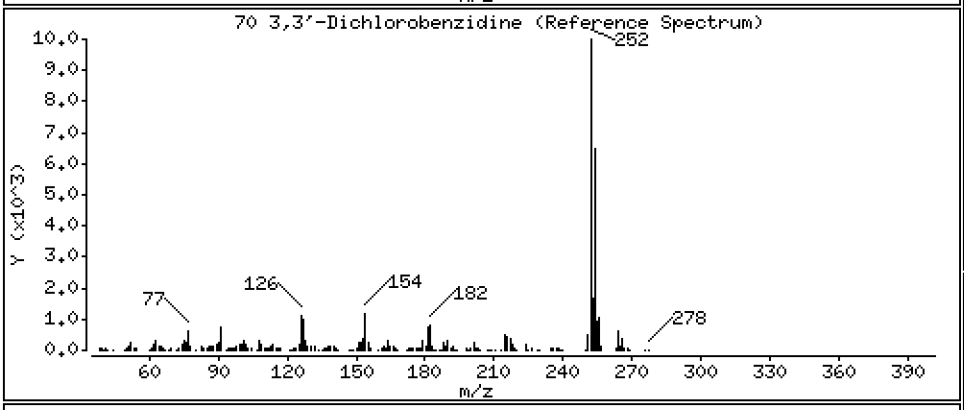
Column diameter: 0.25

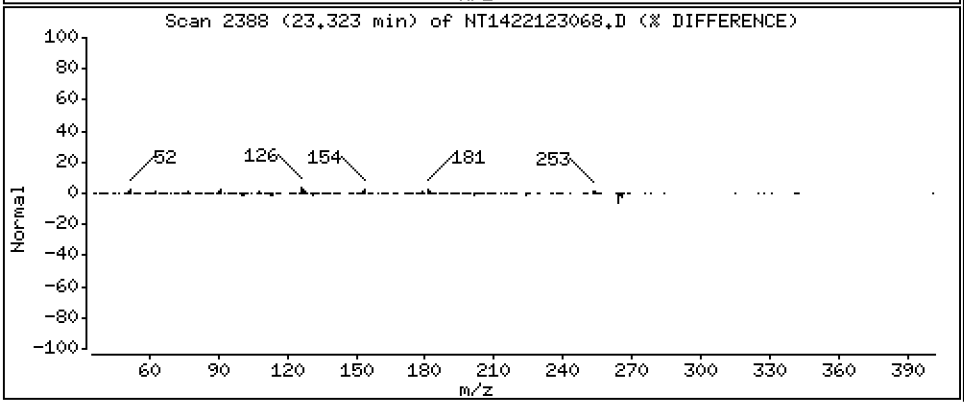
70 3,3'-Dichlorobenzidine

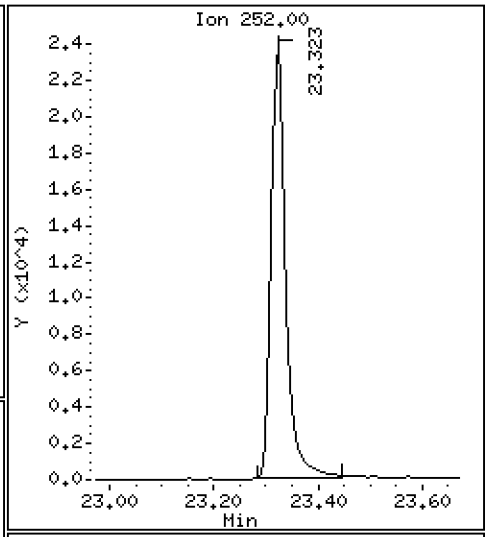
Concentration: 1.641 ug/mL

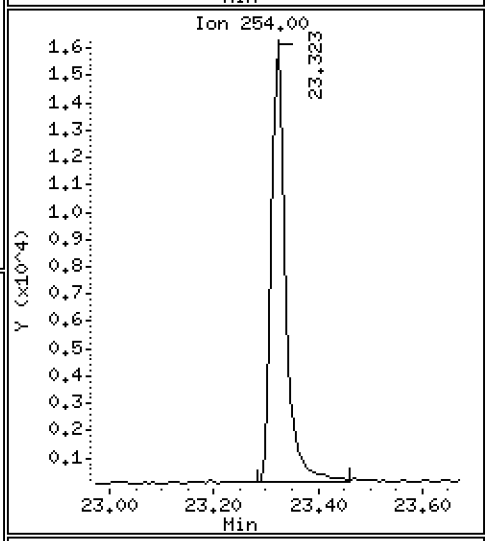


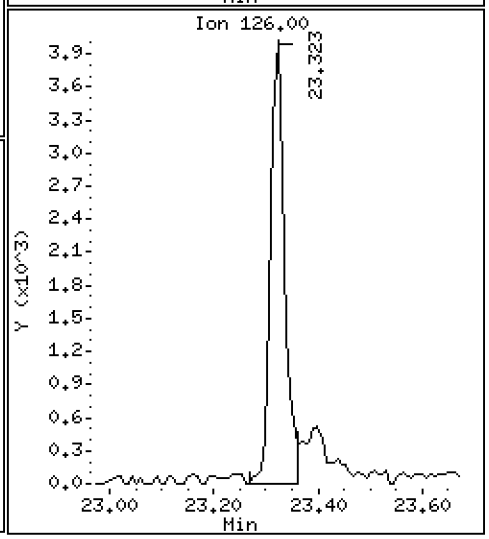












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

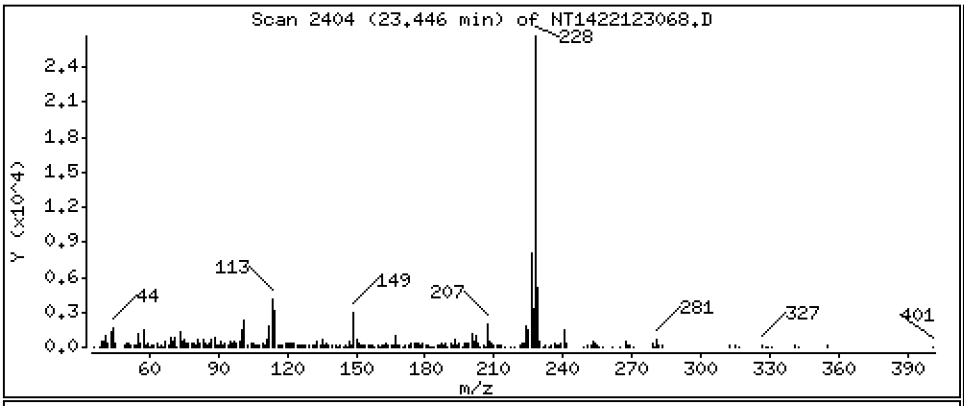
Operator: VTS

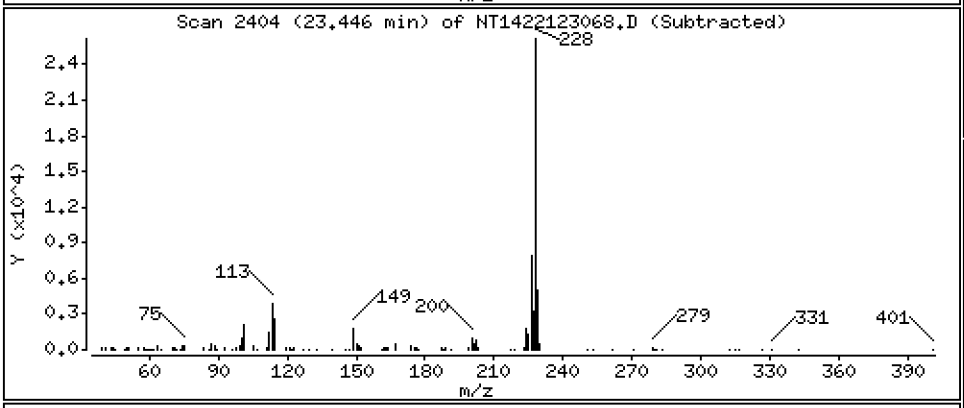
Column phase: ZB-5msi

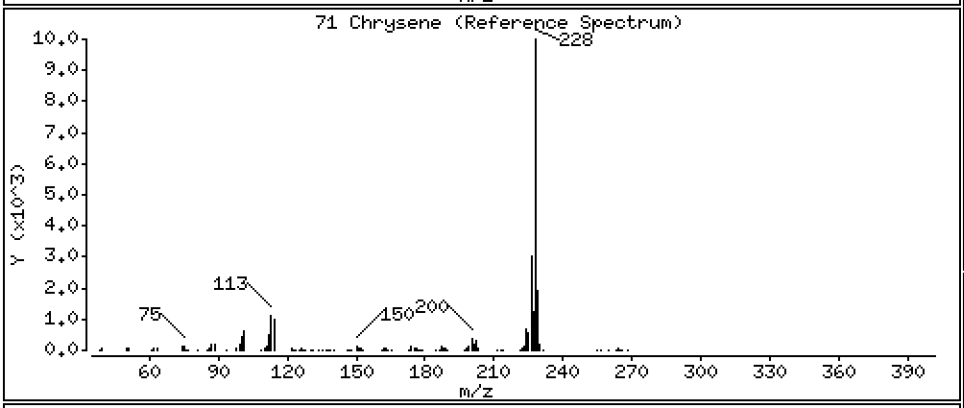
Column diameter: 0.25

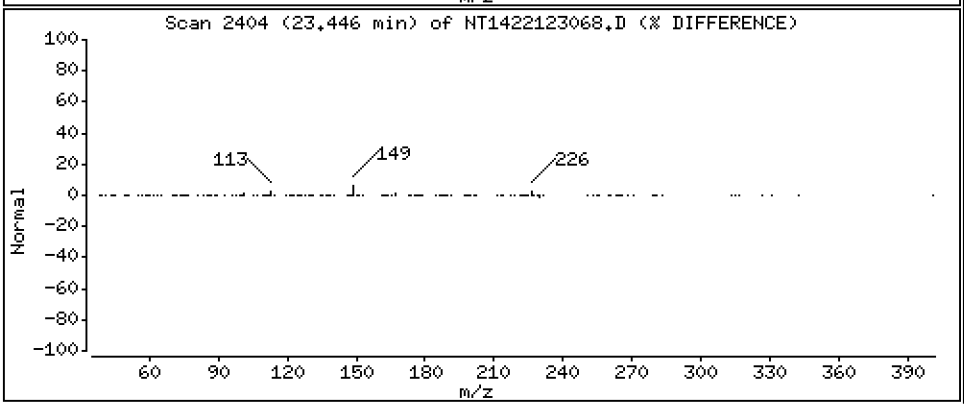
71 Chrysene

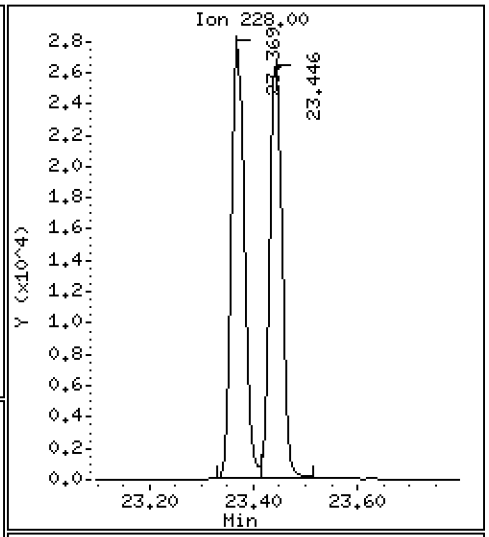
Concentration: 0.5001 ug/mL

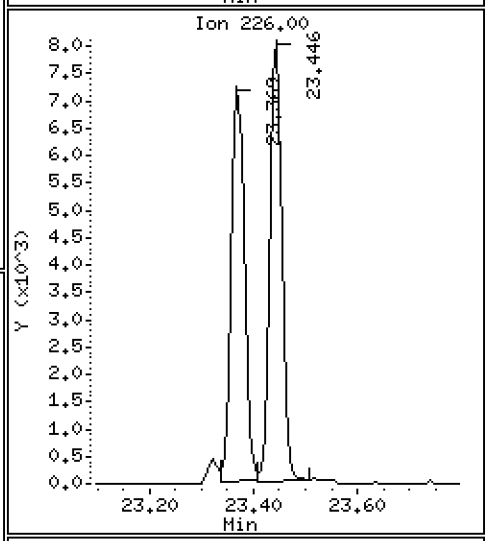


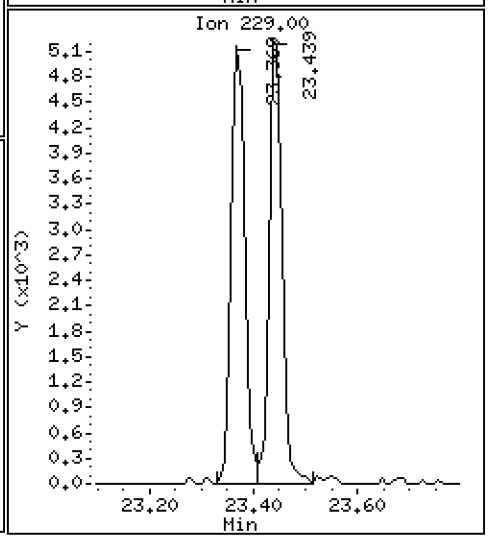












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

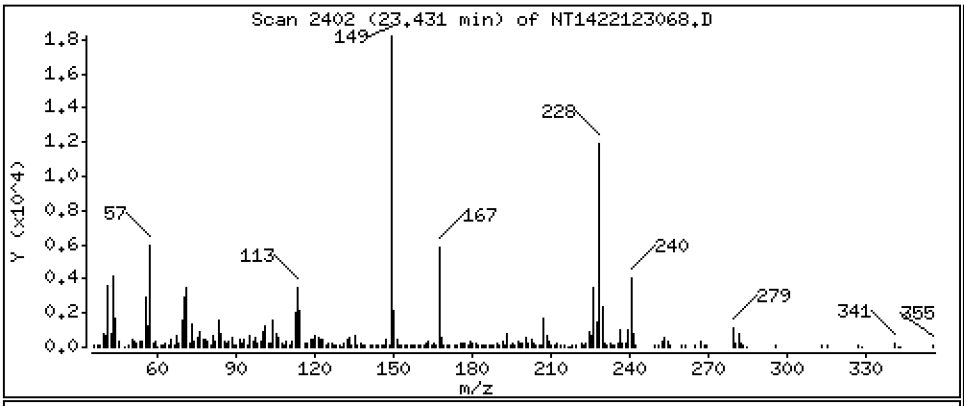
Operator: VTS

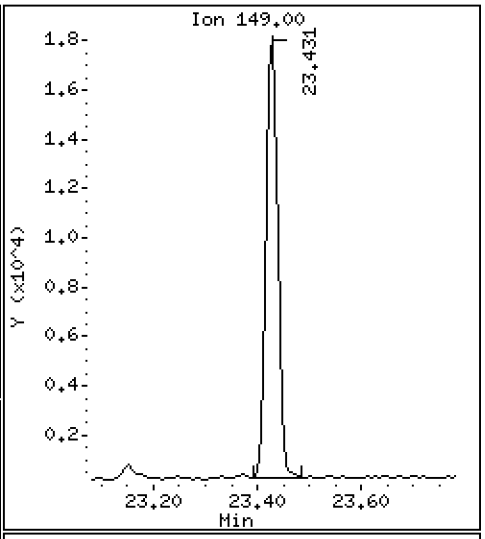
Column phase: ZB-5msi

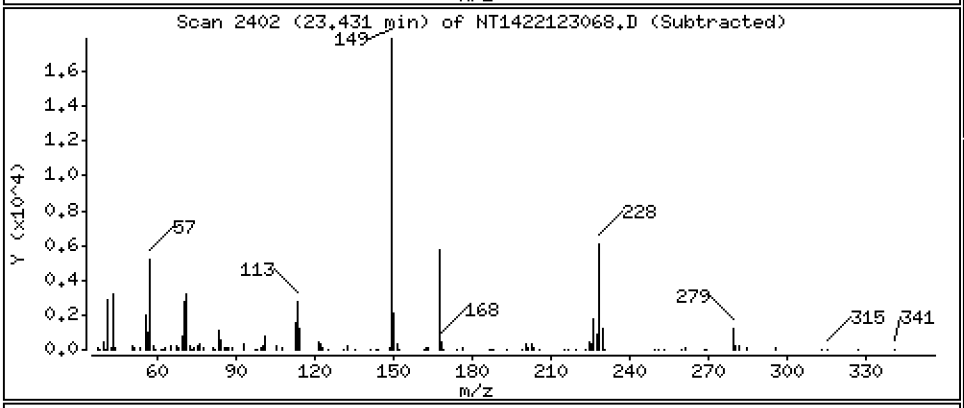
Column diameter: 0.25

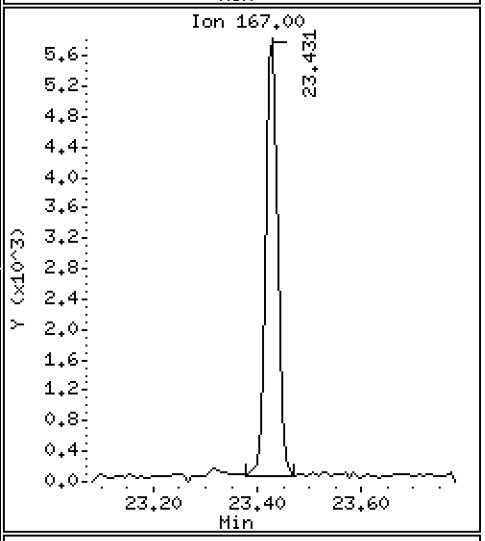
72 bis(2-Ethylhexyl)phthalate

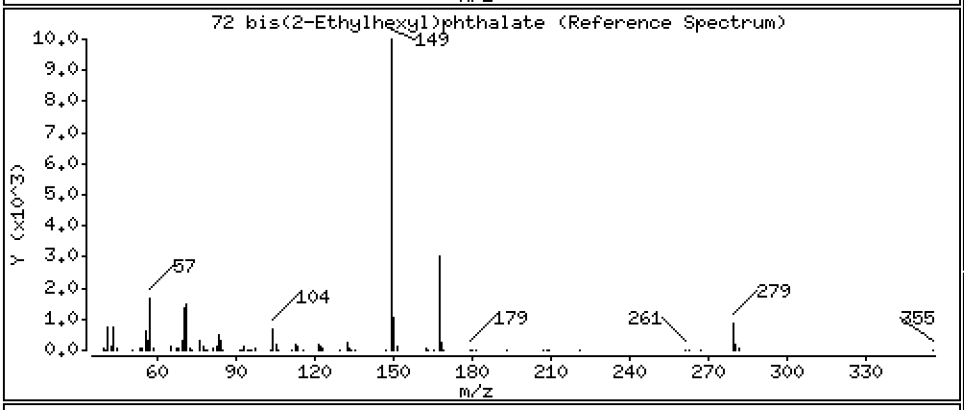
Concentration: 0.5136 ug/mL

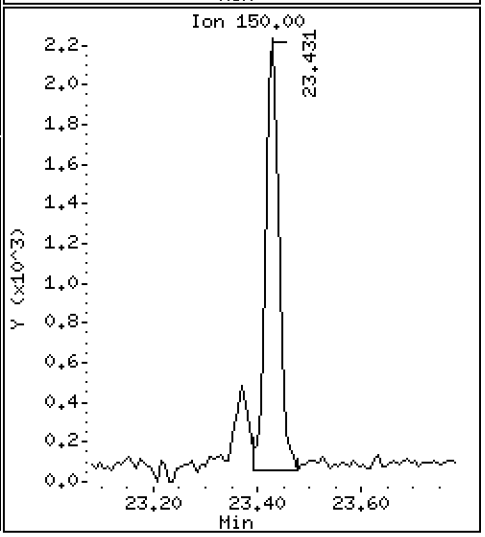


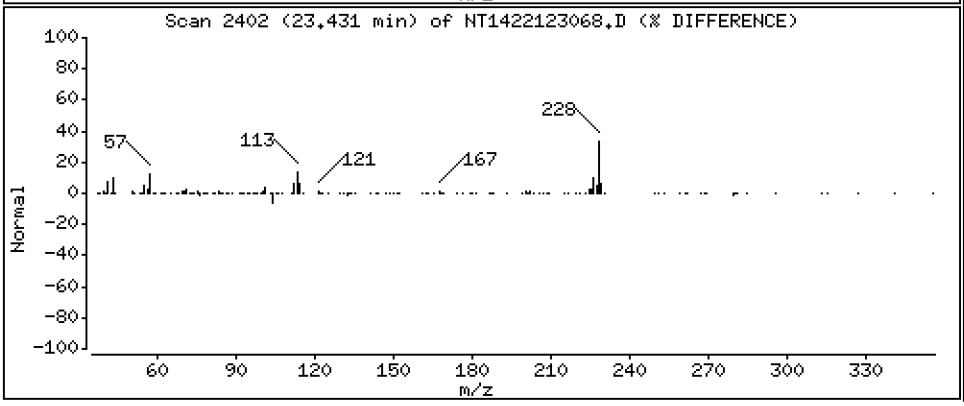












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

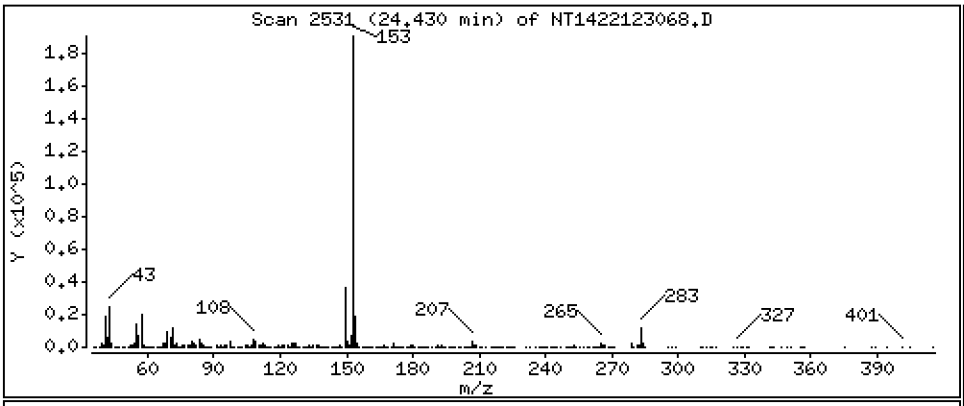
Operator: VTS

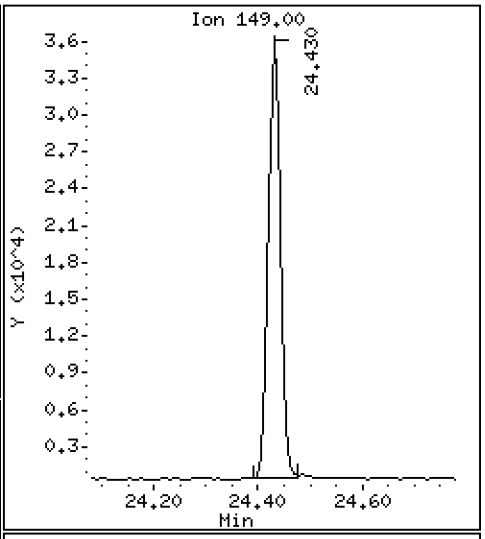
Column phase: ZB-5msi

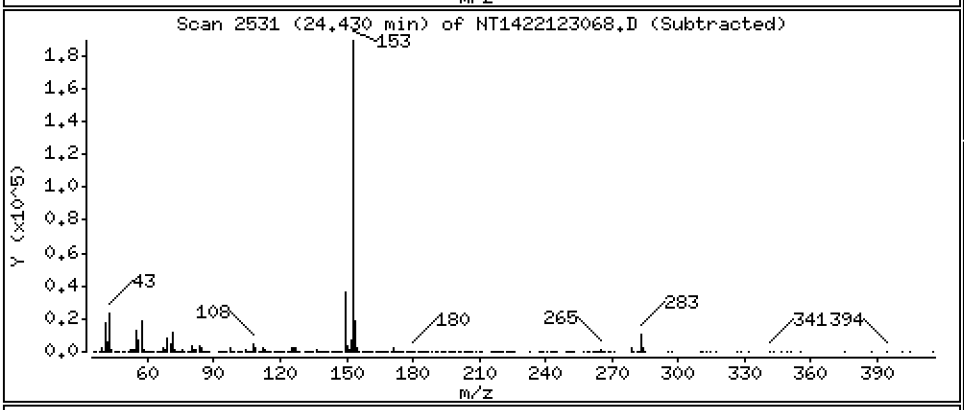
Column diameter: 0.25

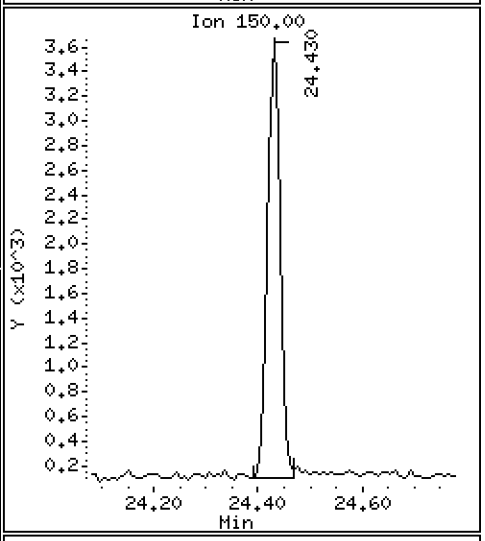
73 Di-n-octylphthalate

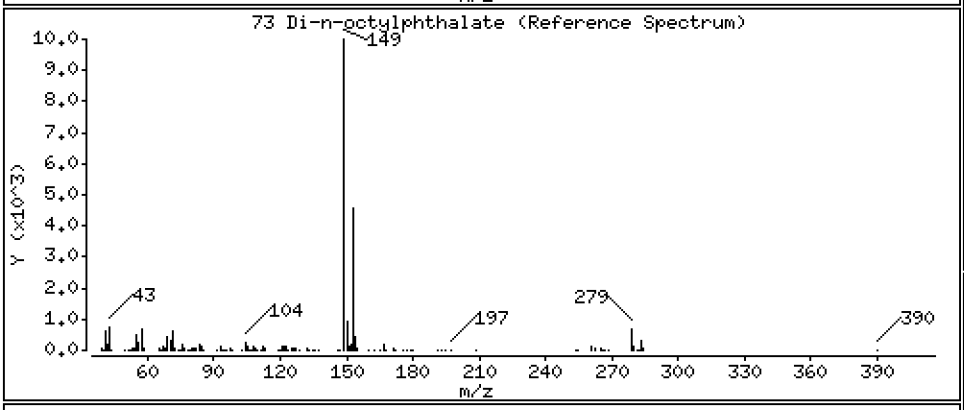
Concentration: 0.4900 ug/mL

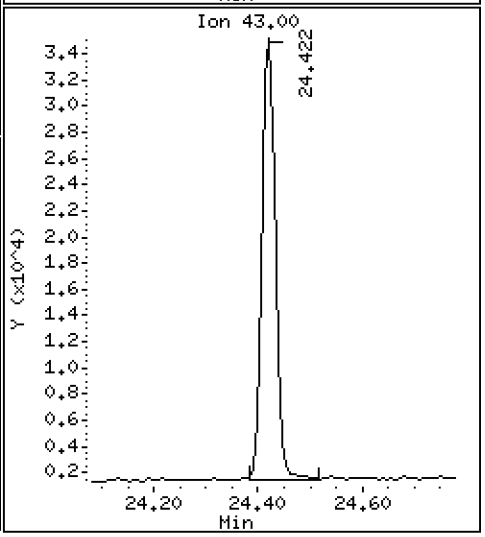


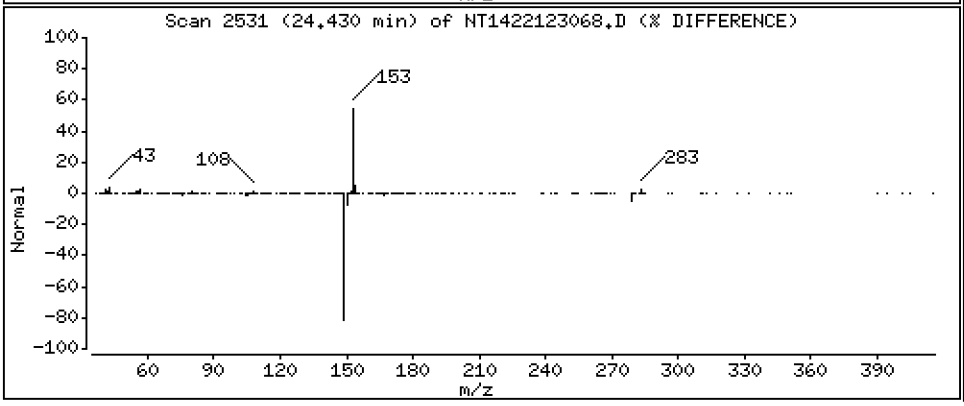












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

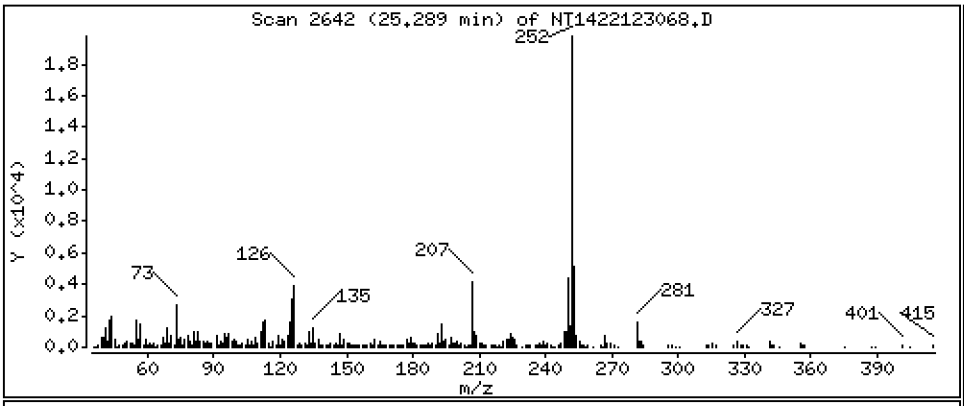
Operator: VTS

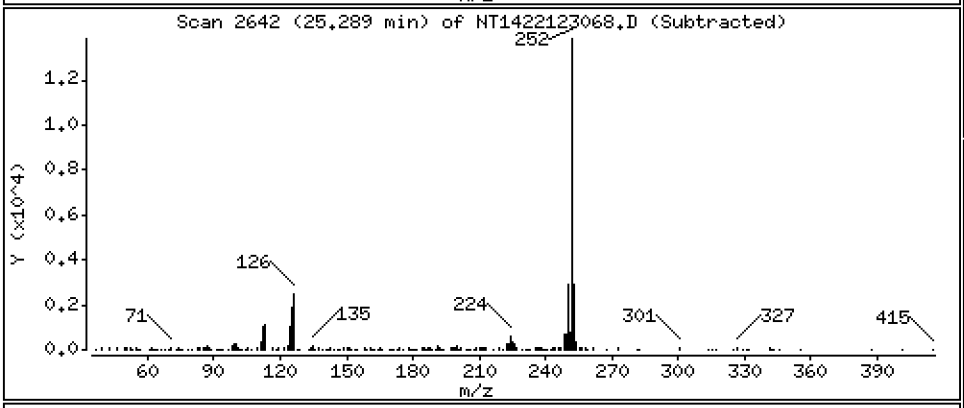
Column phase: ZB-5msi

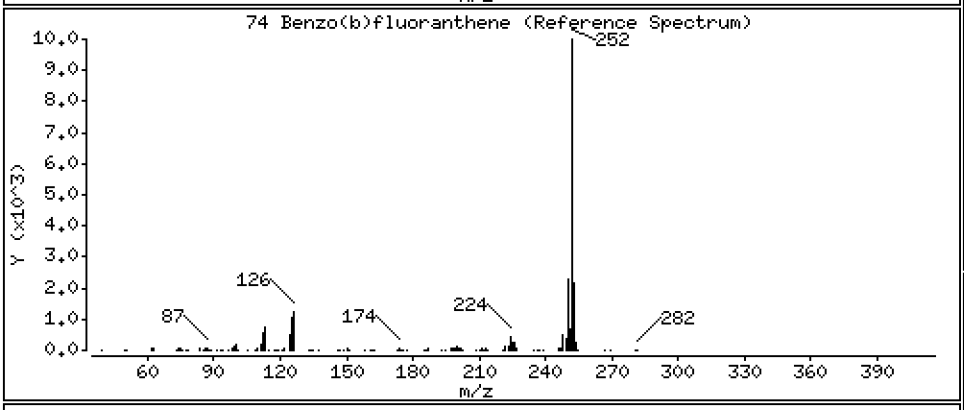
Column diameter: 0.25

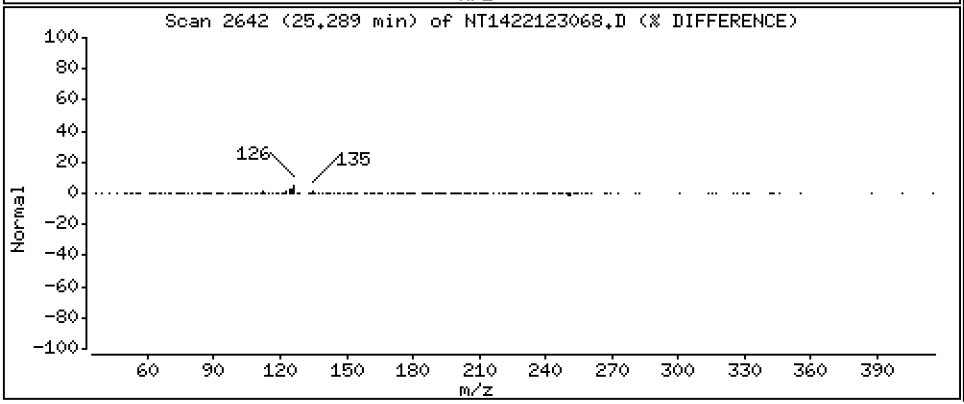
74 Benzo(b)fluoranthene

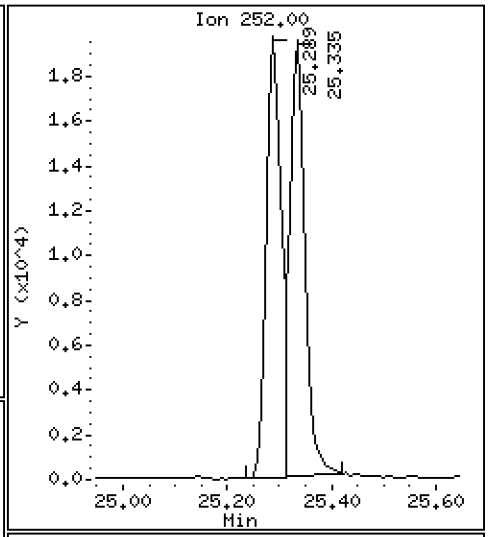
Concentration: 0.5437 ug/mL

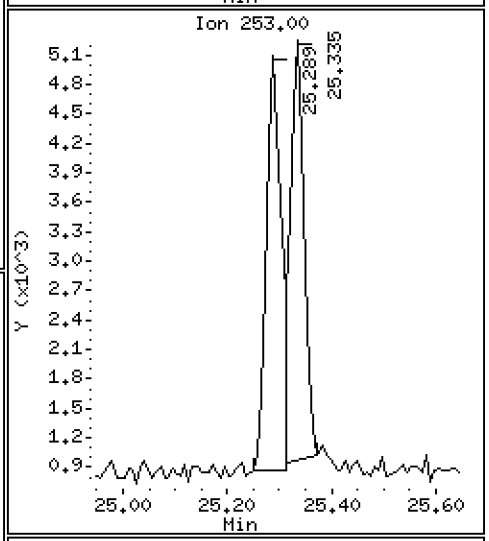


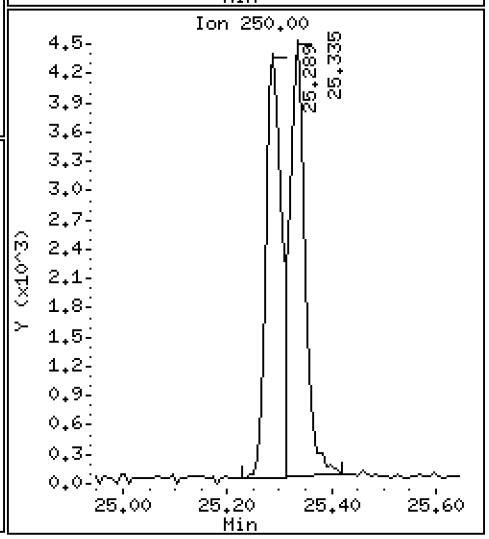












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

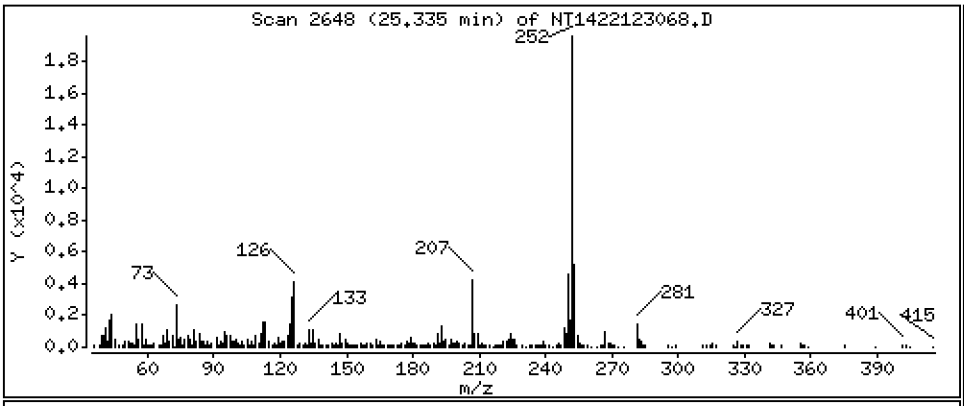
Operator: VTS

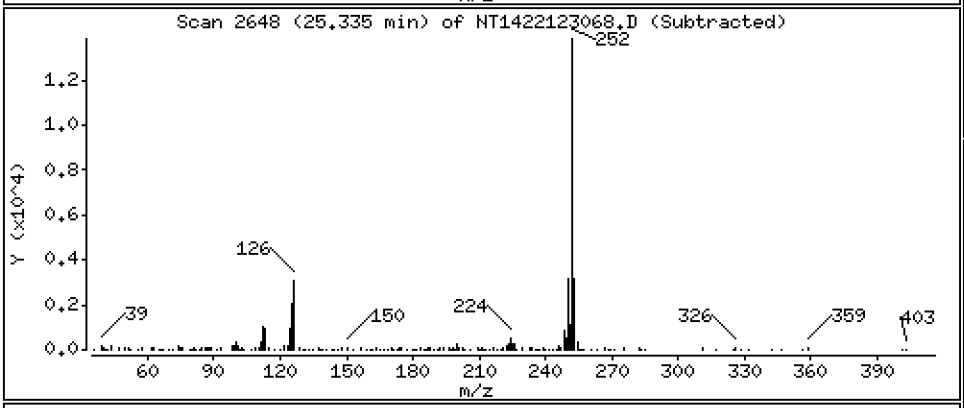
Column phase: ZB-5msi

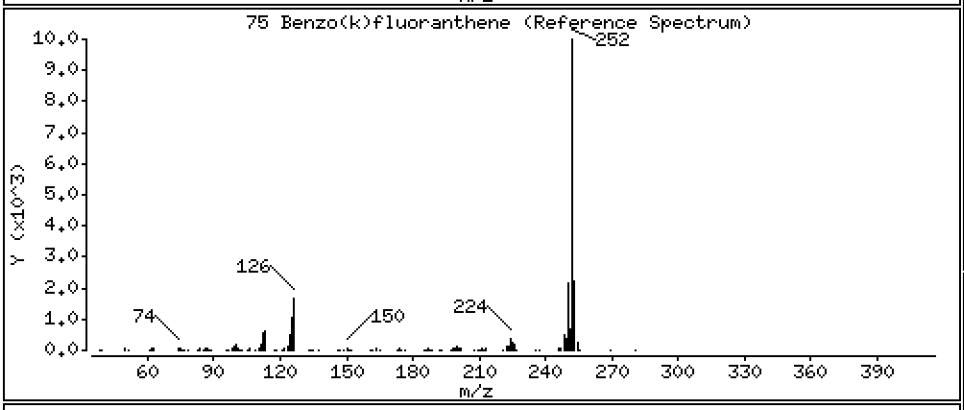
Column diameter: 0.25

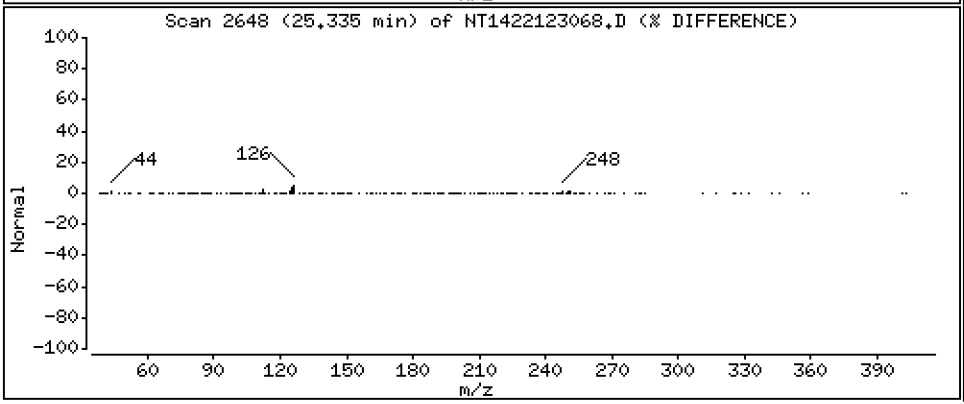
75 Benzo(k)fluoranthene

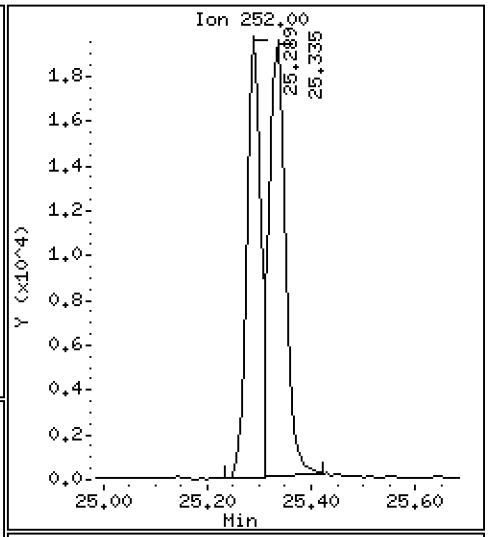
Concentration: 0.5702 ug/mL

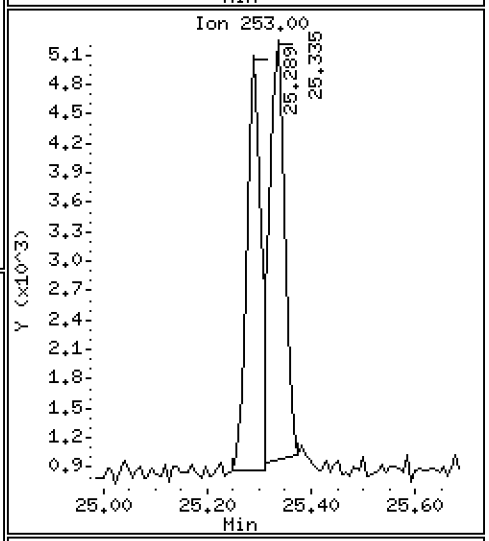


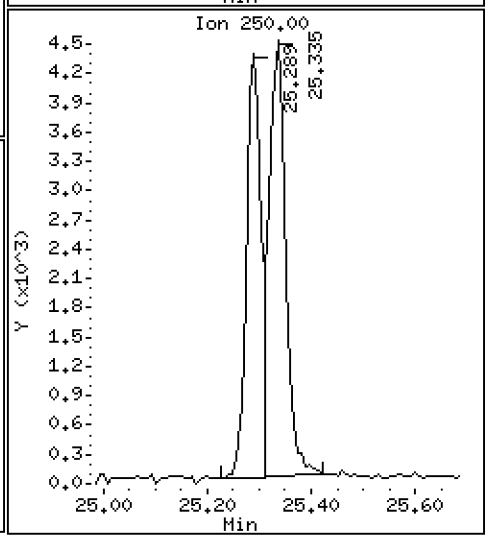












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

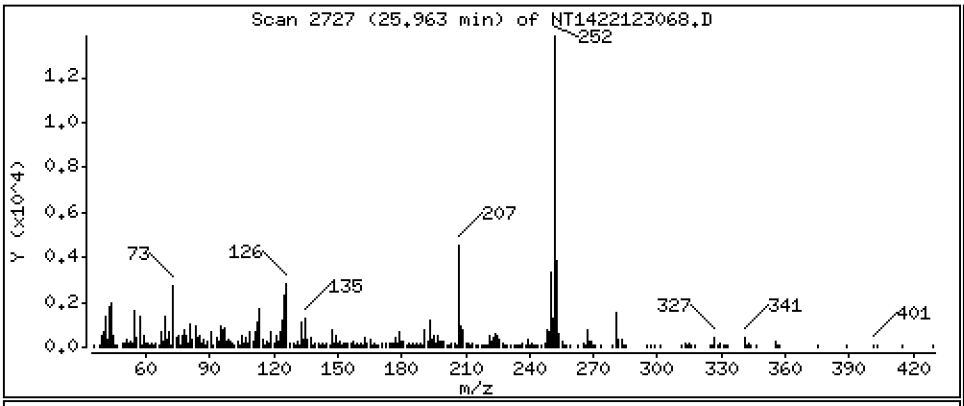
Operator: VTS

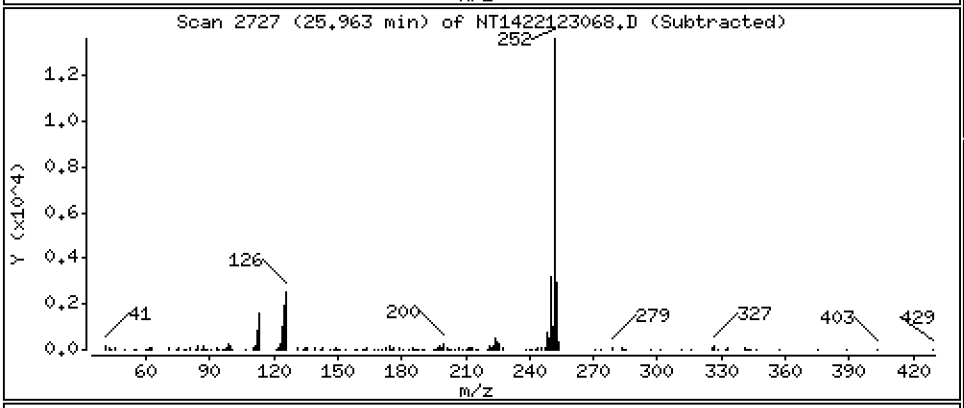
Column phase: ZB-5msi

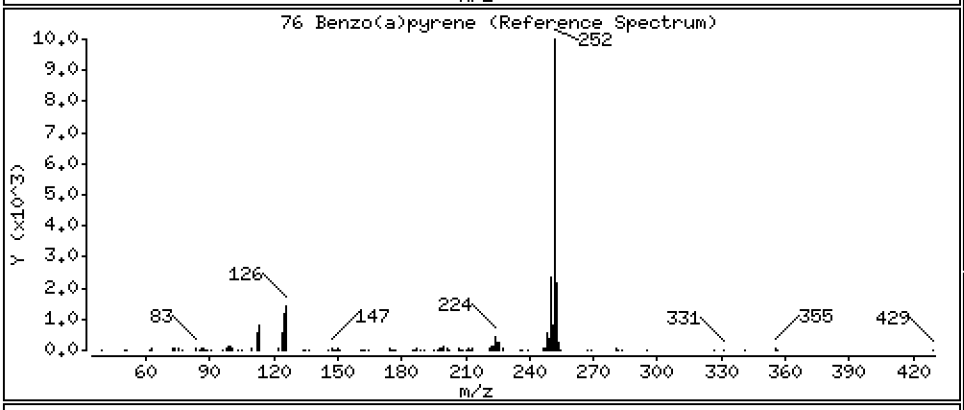
Column diameter: 0.25

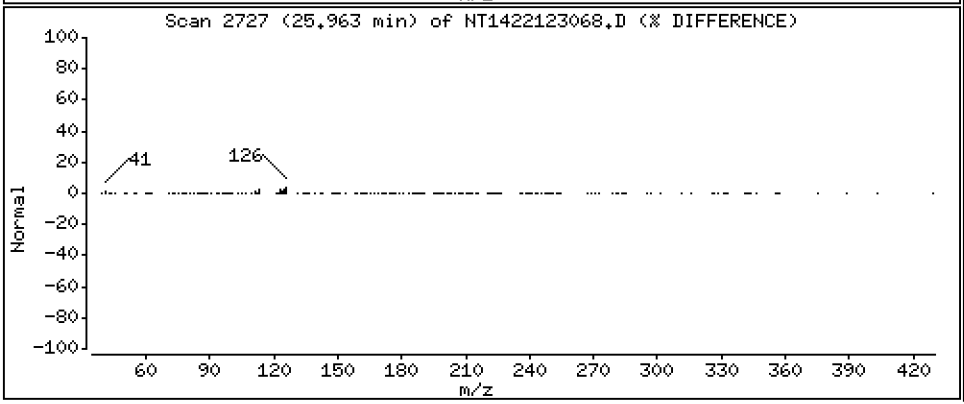
76 Benzo(a)pyrene

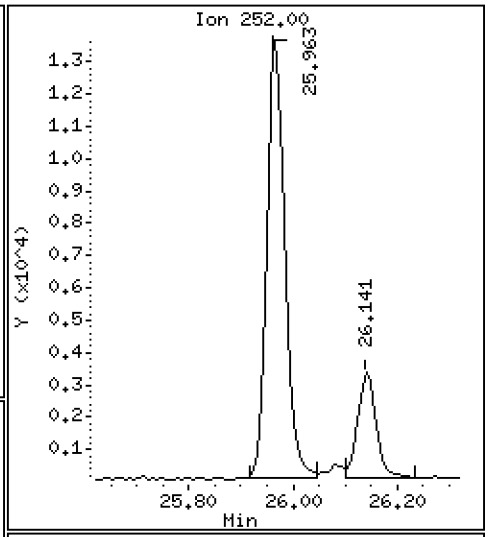
Concentration: 0.5296 ug/mL

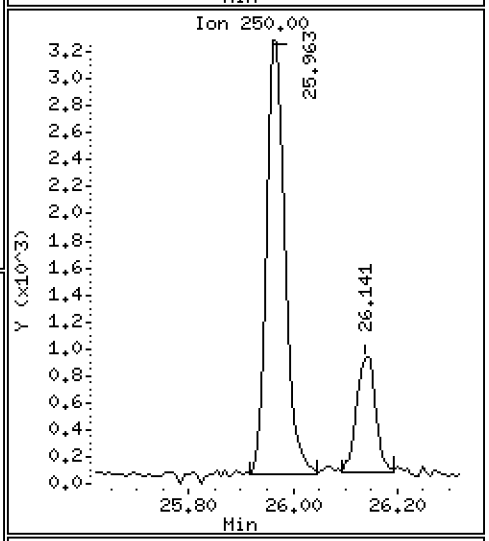


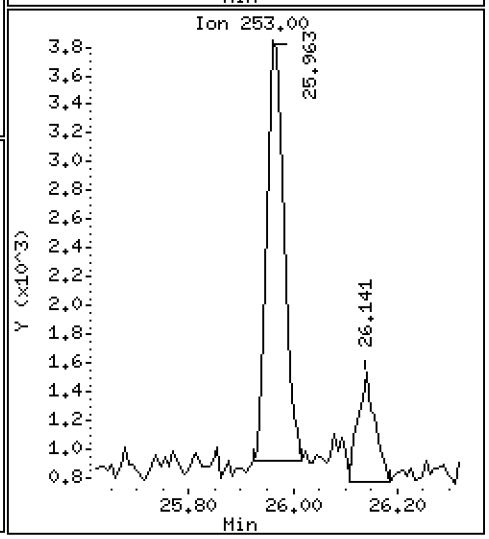












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

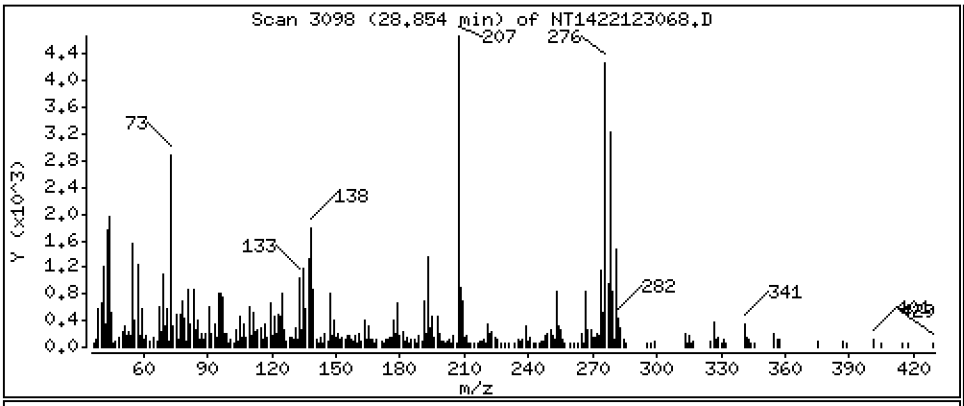
Operator: VTS

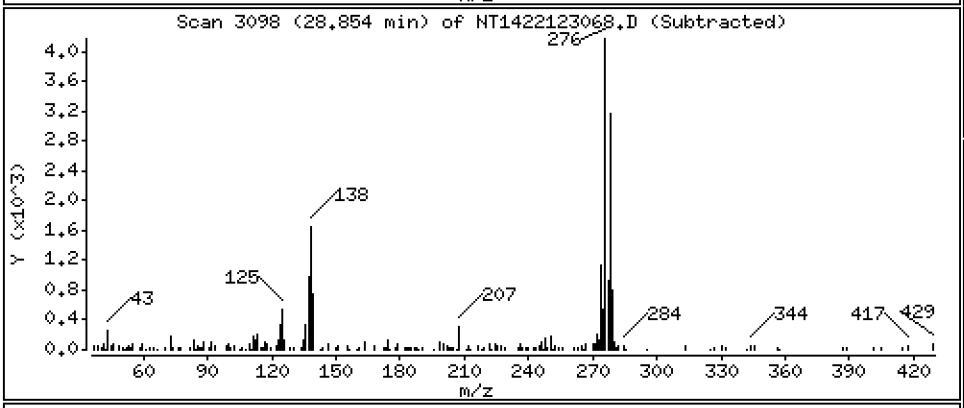
Column phase: ZB-5msi

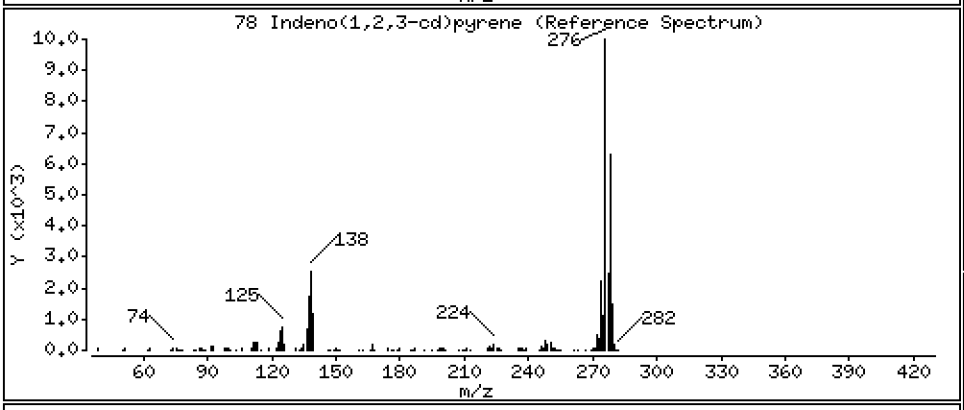
Column diameter: 0.25

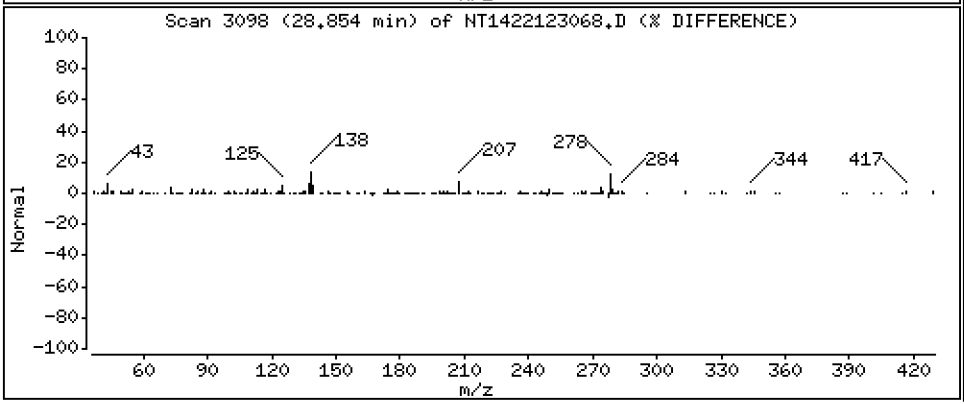
78 Indeno(1,2,3-cd)pyrene

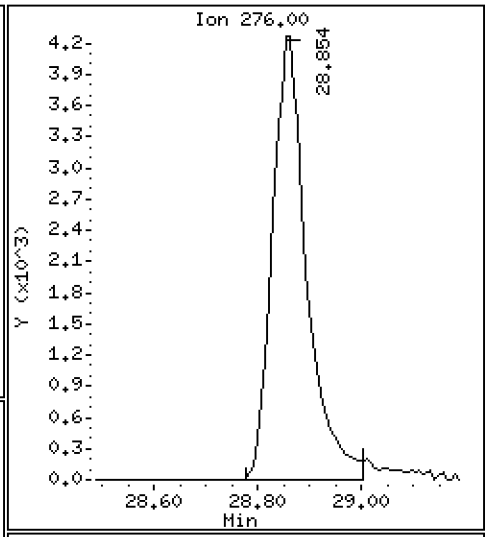
Concentration: 0.2876 ug/mL

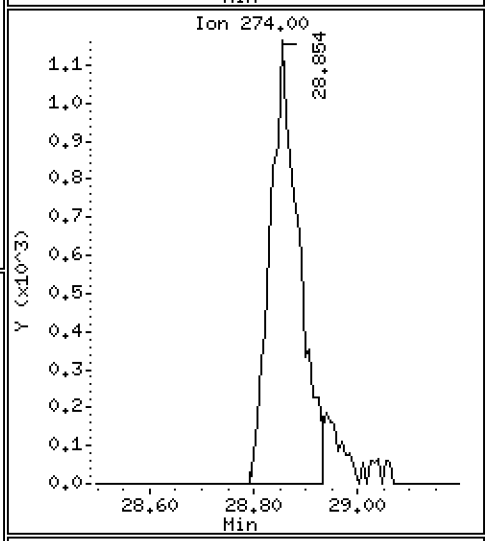


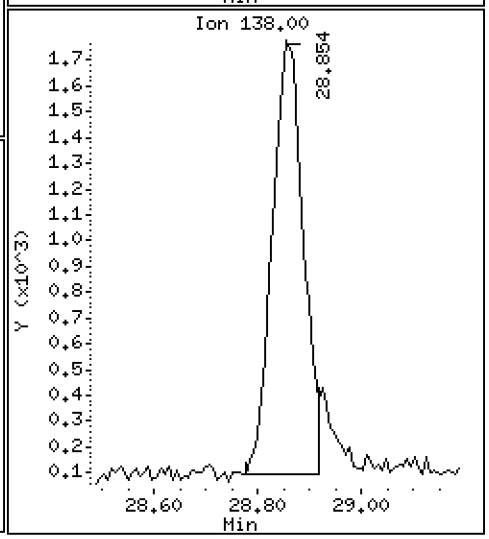












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

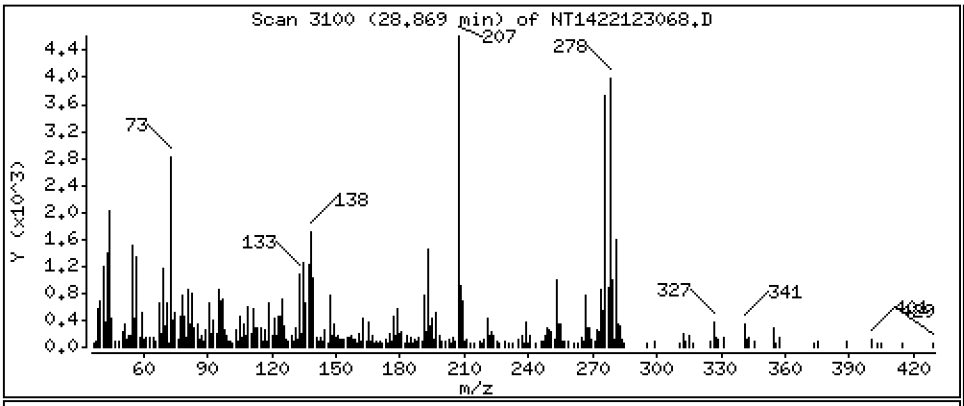
Operator: VTS

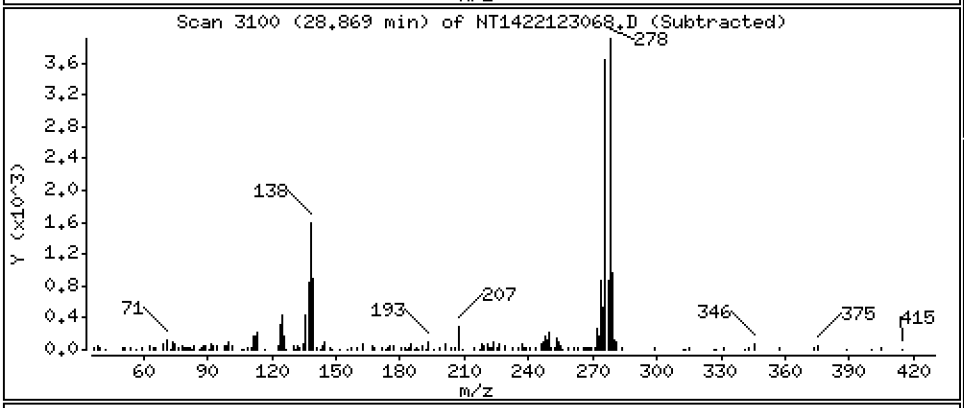
Column phase: ZB-5msi

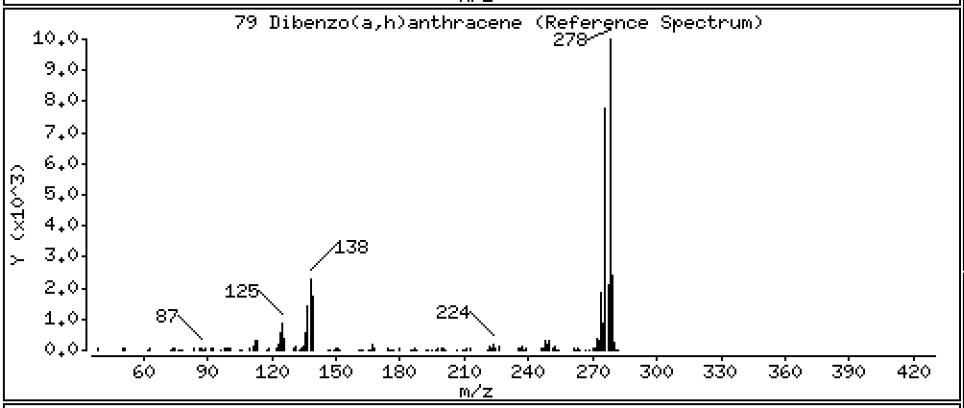
Column diameter: 0.25

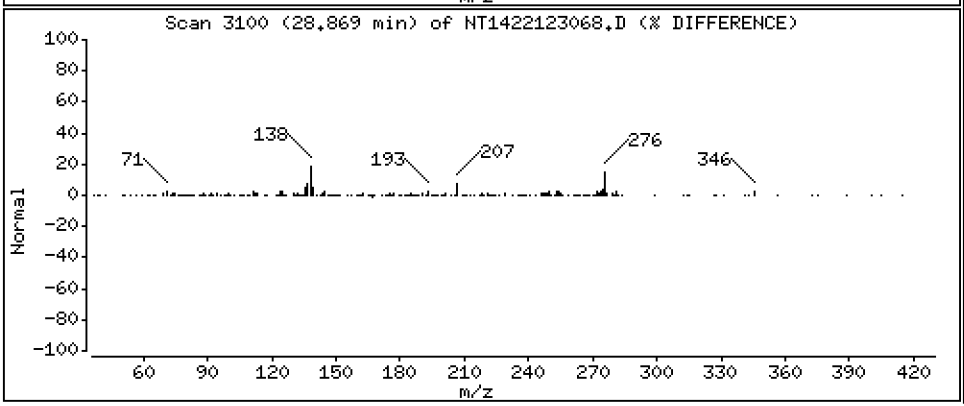
79 Dibenzo(a,h)anthracene

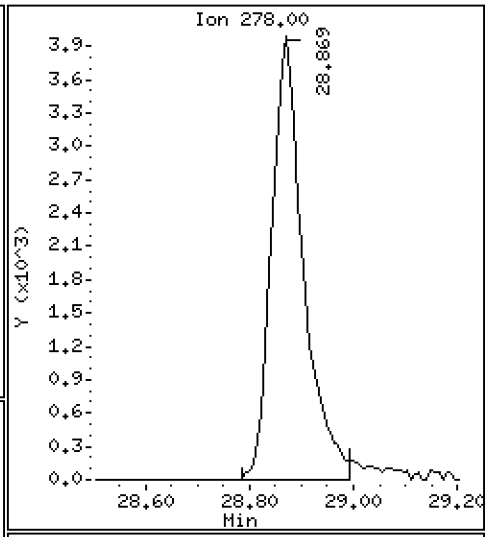
Concentration: 0.2950 ug/mL

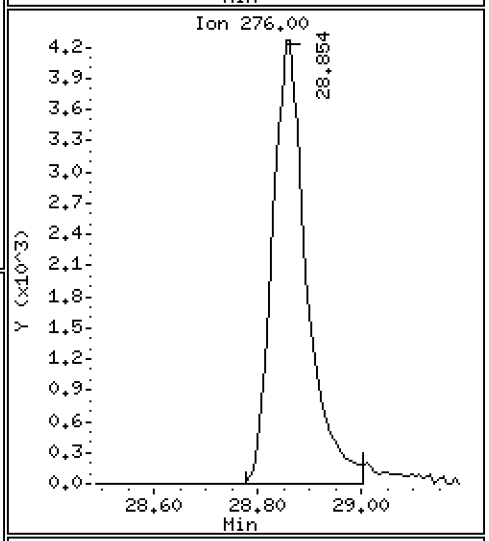


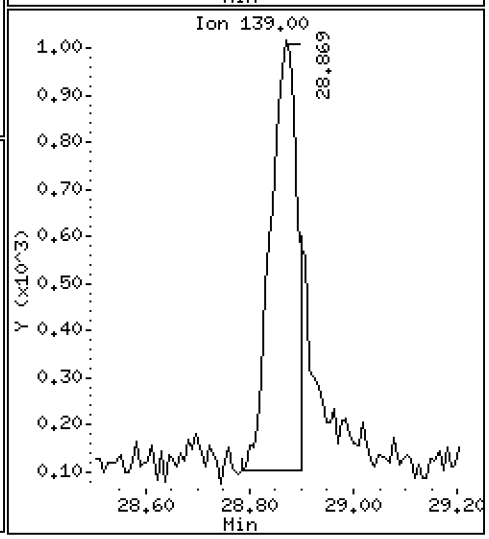












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

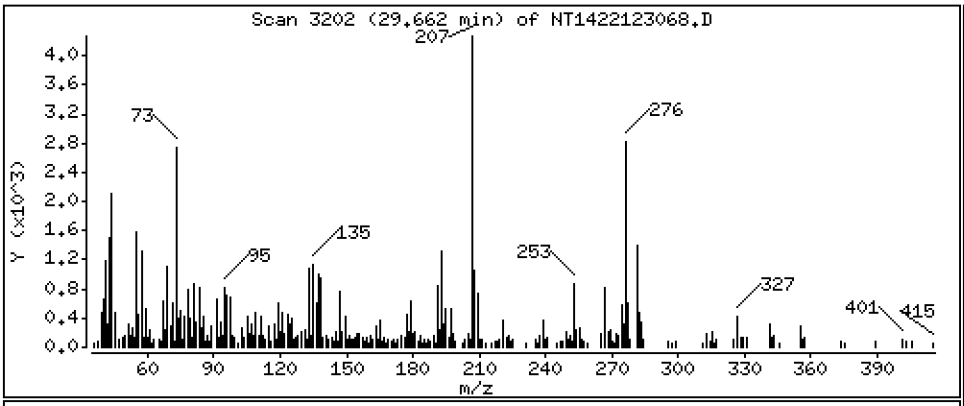
Operator: VTS

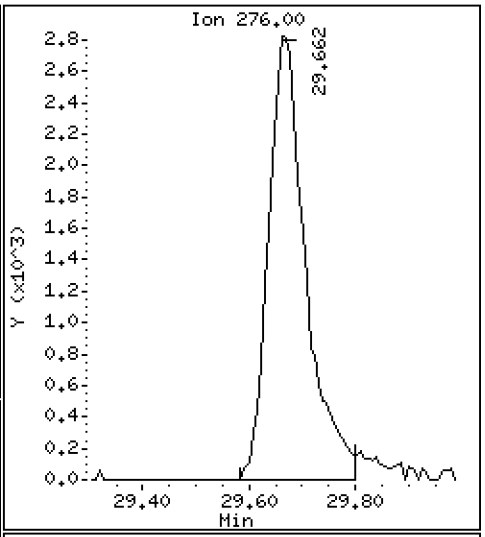
Column phase: ZB-5msi

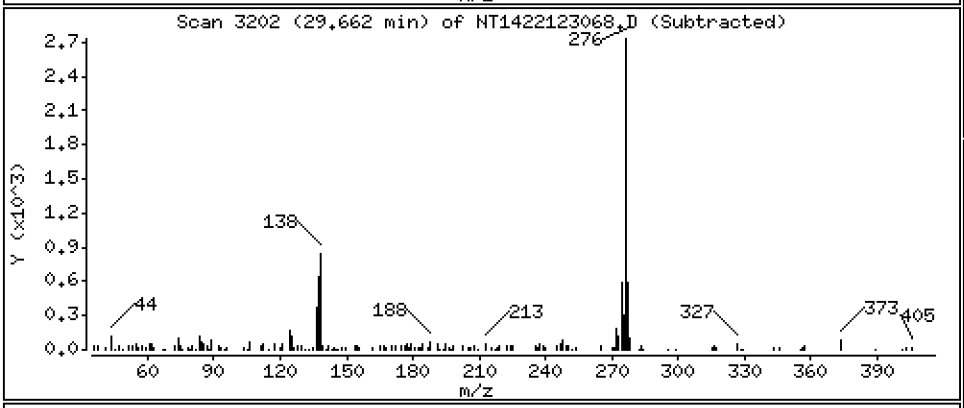
Column diameter: 0.25

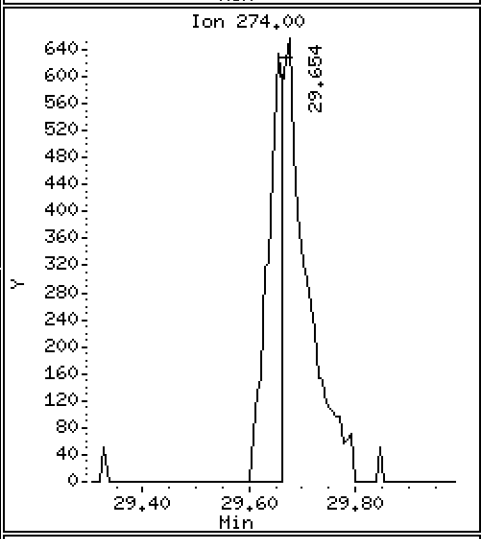
80 Benzo(g,h,i)perylene

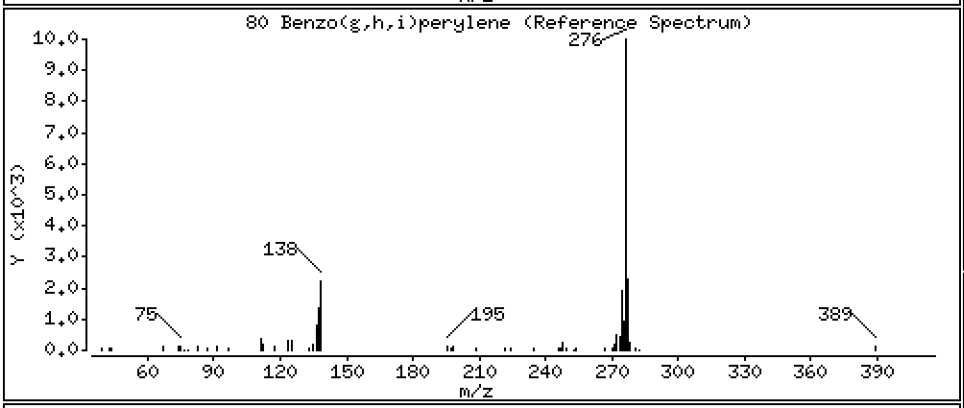
Concentration: 0.2408 ug/mL

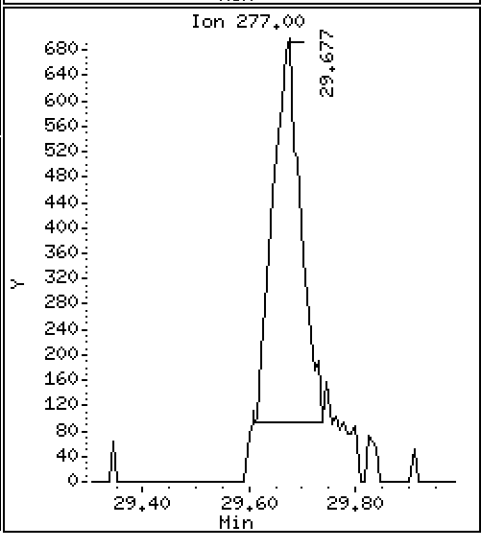


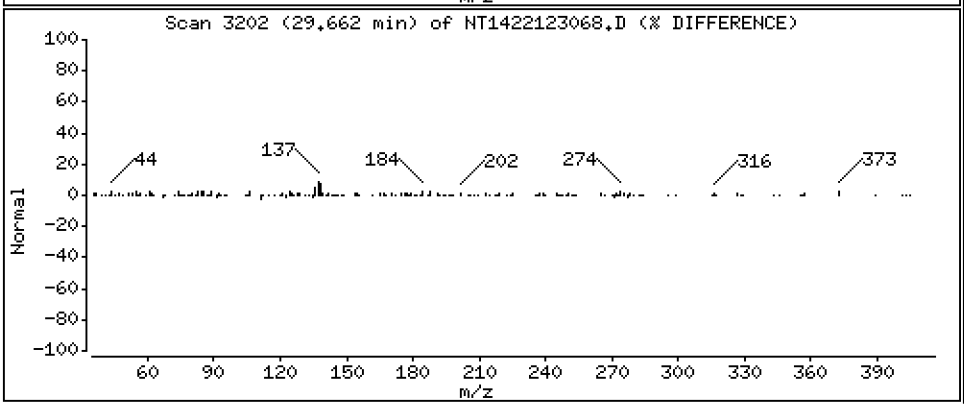












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

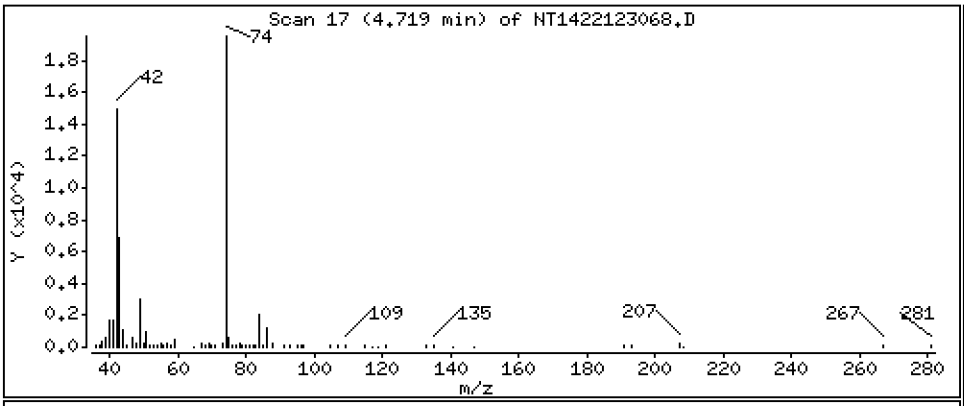
Operator: VTS

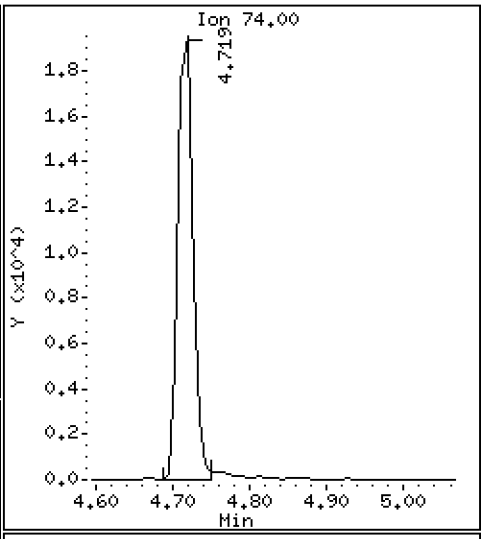
Column phase: ZB-5msi

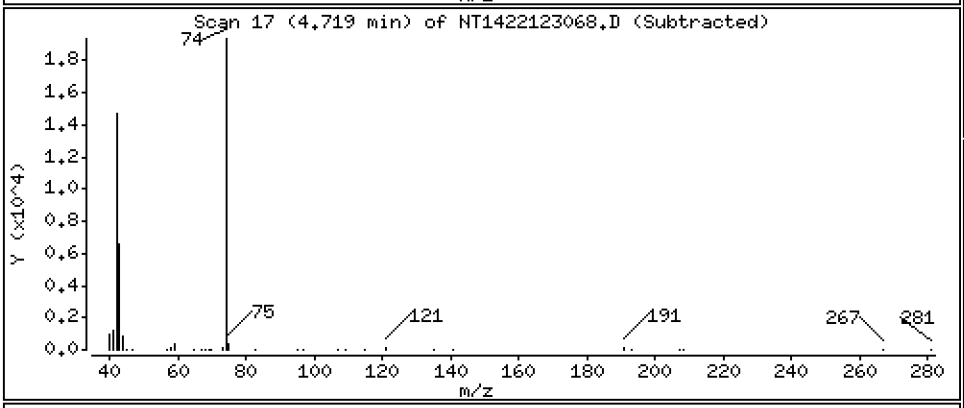
Column diameter: 0.25

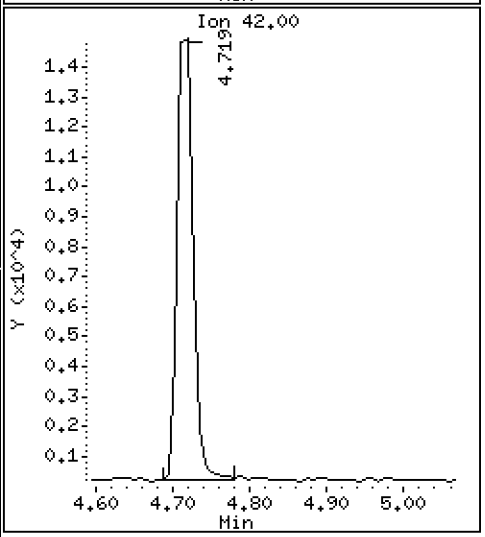
90 N-Nitrosodimethylamine

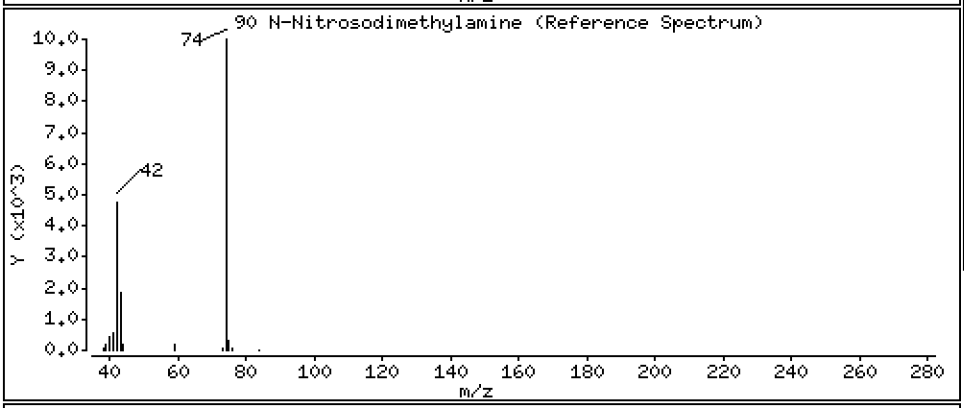
Concentration: 1.011 ug/mL

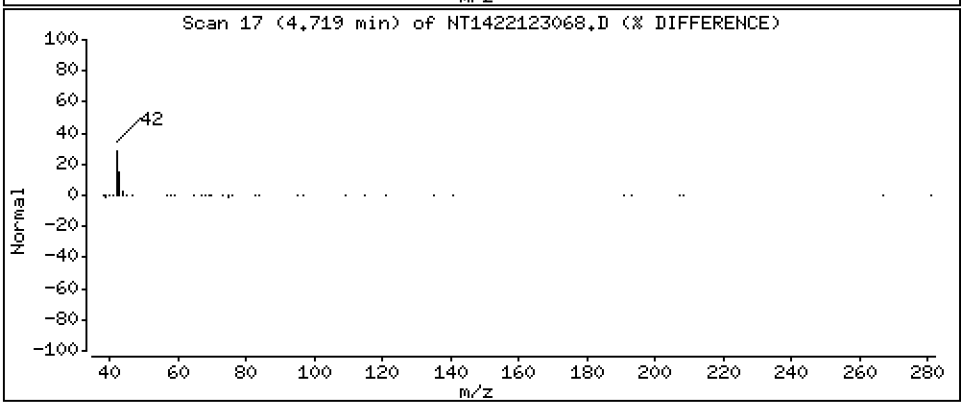












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

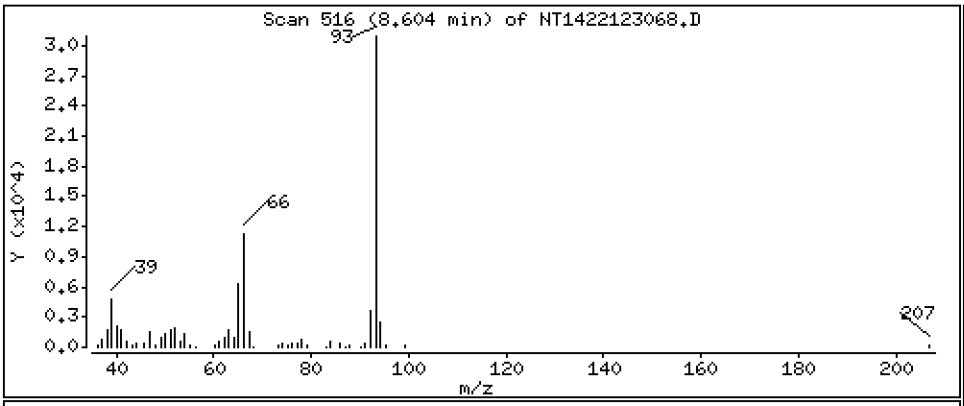
Operator: VTS

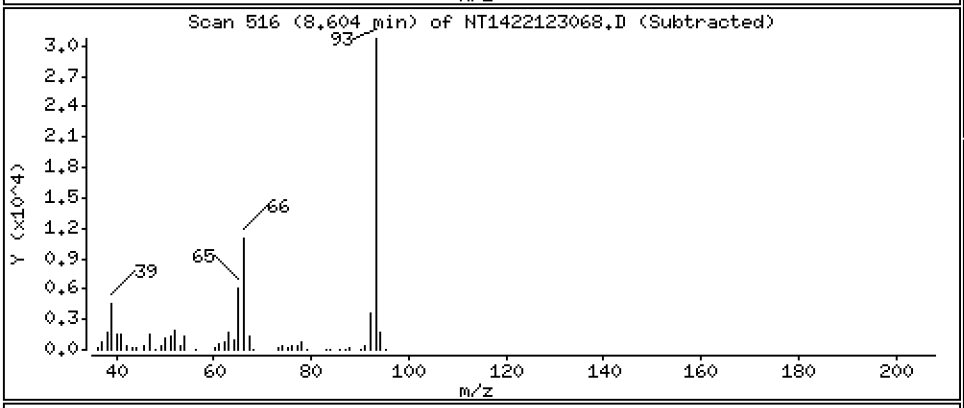
Column phase: ZB-5msi

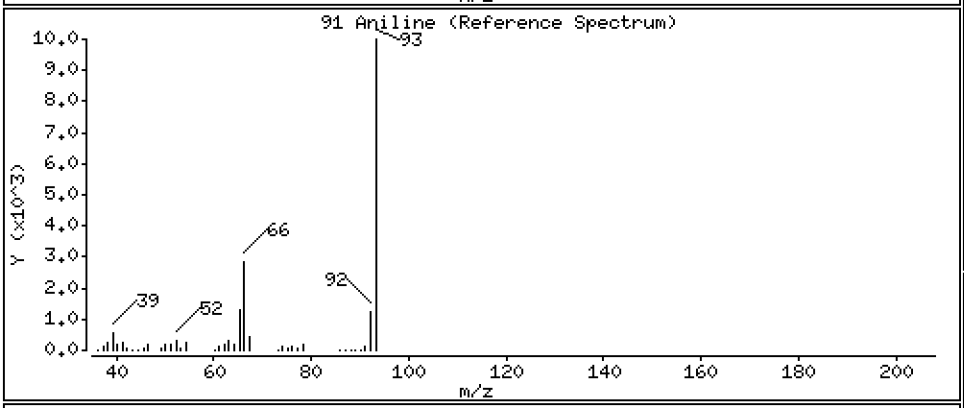
Column diameter: 0.25

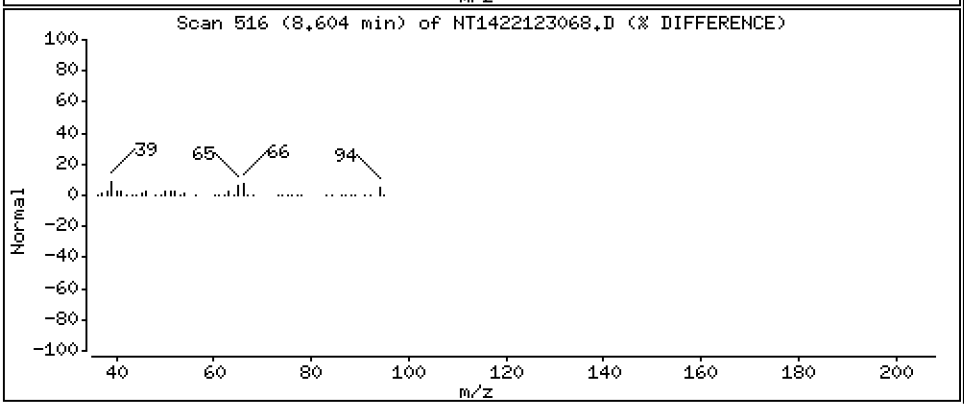
91 Aniline

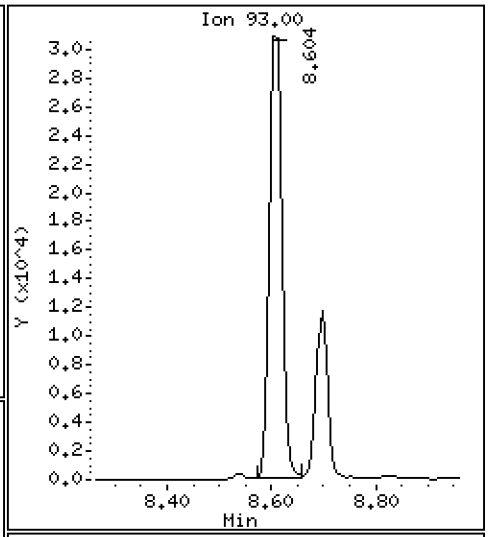
Concentration: 0.9709 ug/mL

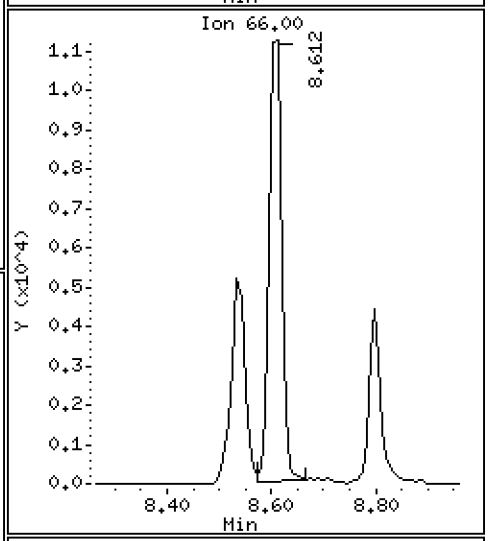


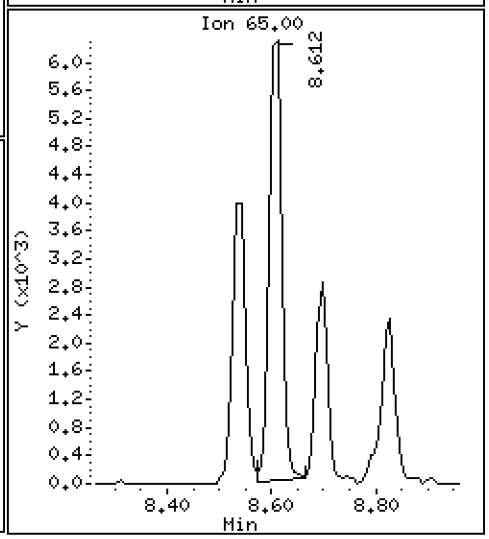












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

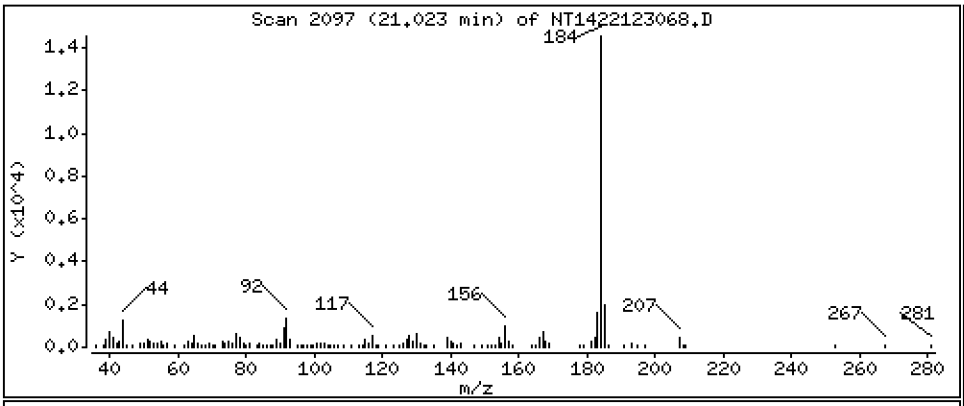
Operator: VTS

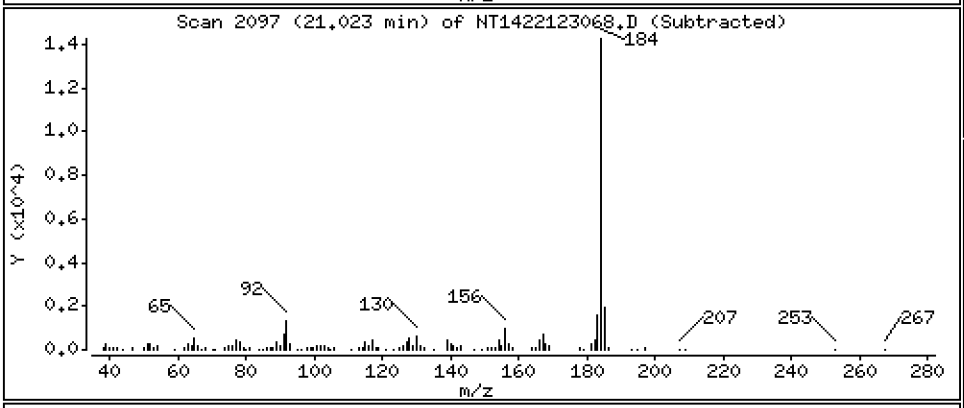
Column phase: ZB-5msi

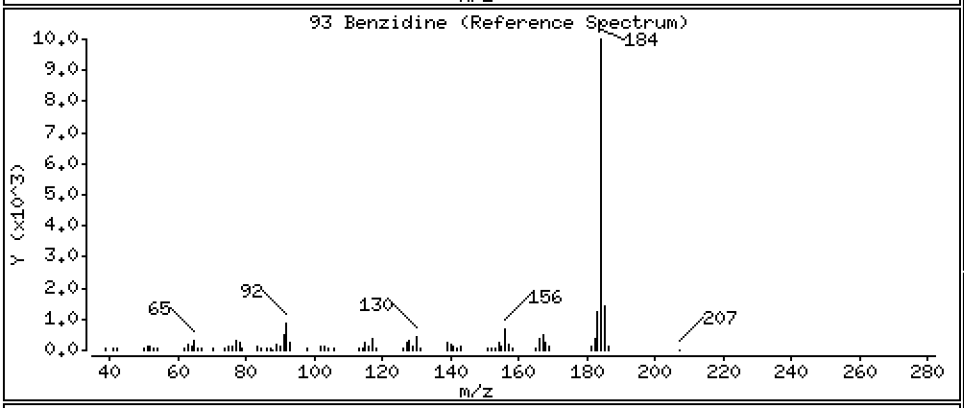
Column diameter: 0.25

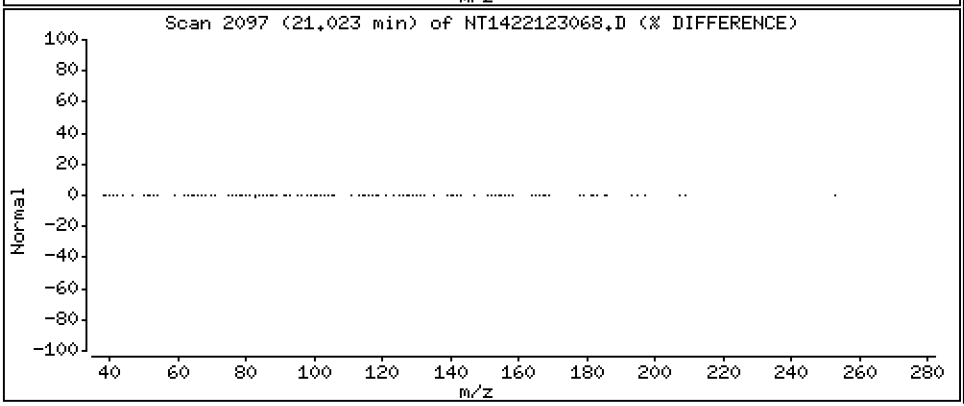
93 Benzidine

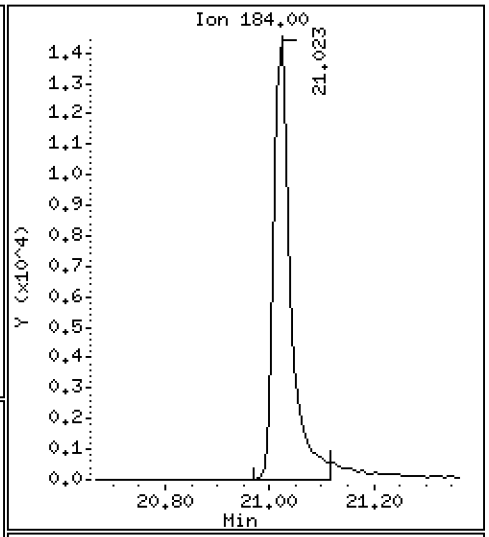
Concentration: 0.8853 ug/mL

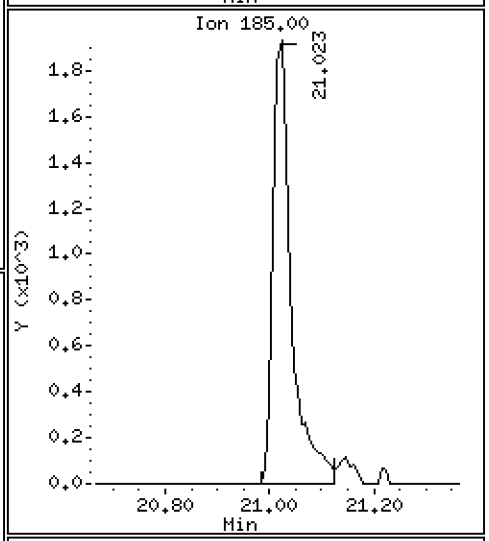


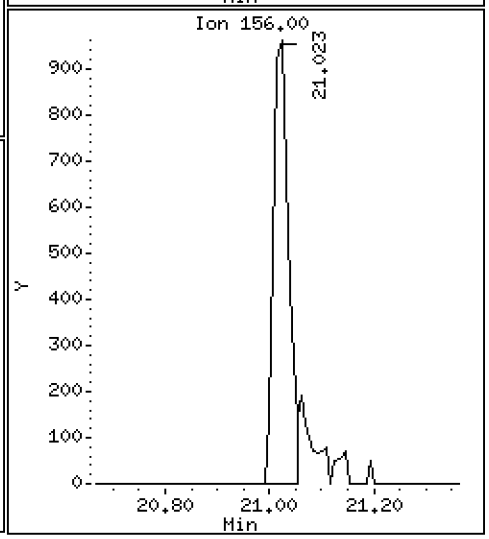












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

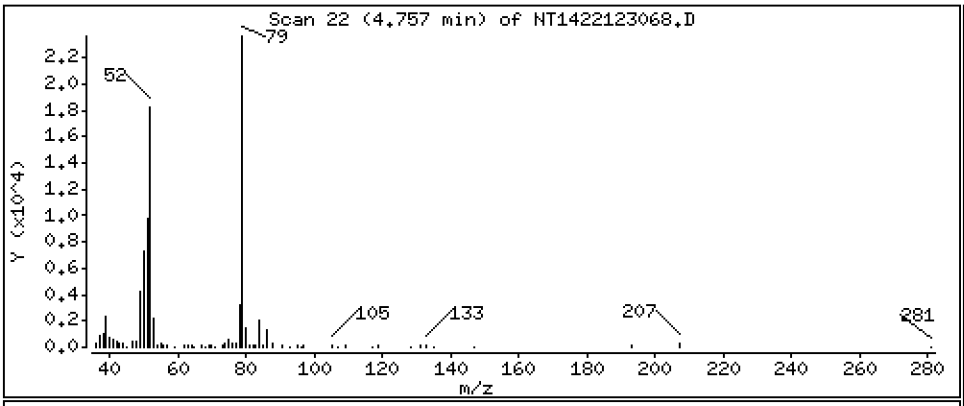
Operator: VTS

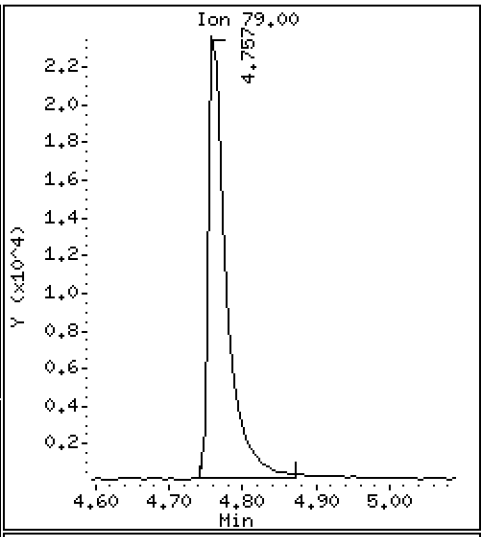
Column phase: ZB-5msi

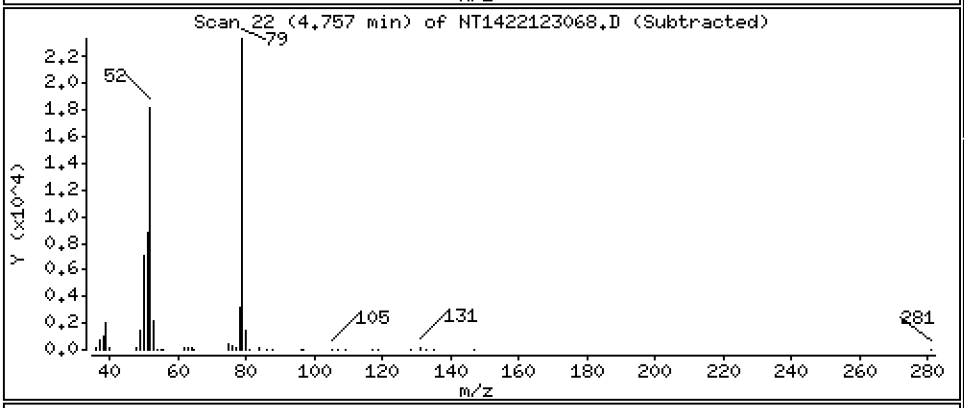
Column diameter: 0.25

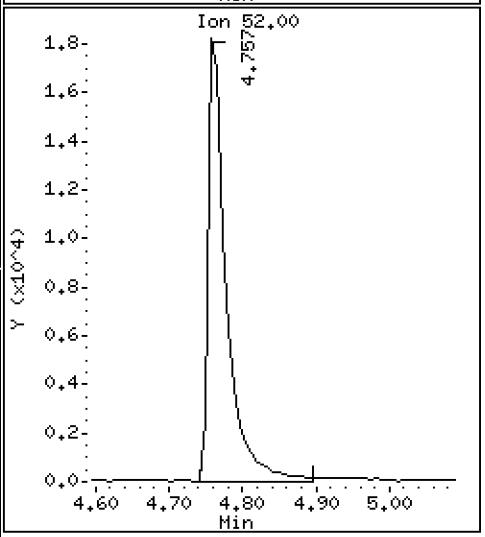
103 Pyridine

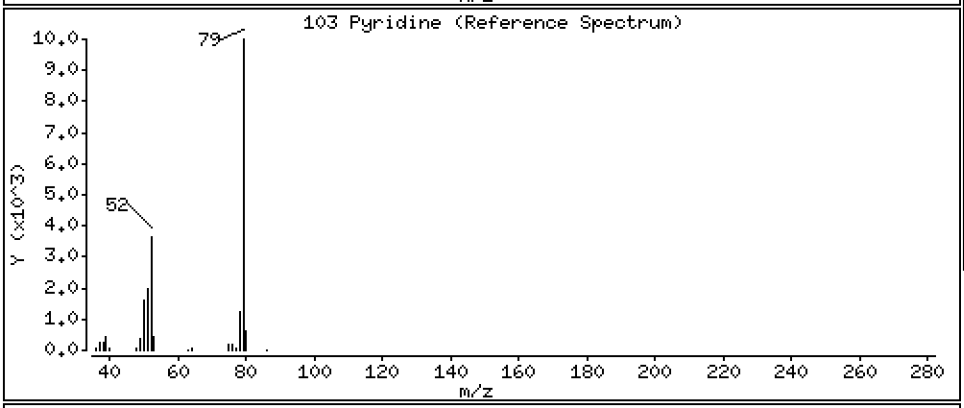
Concentration: 0.5018 ug/mL

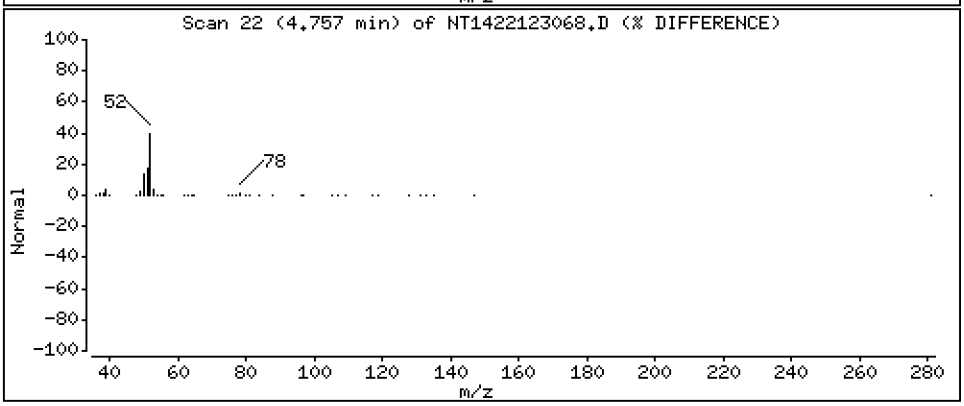












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

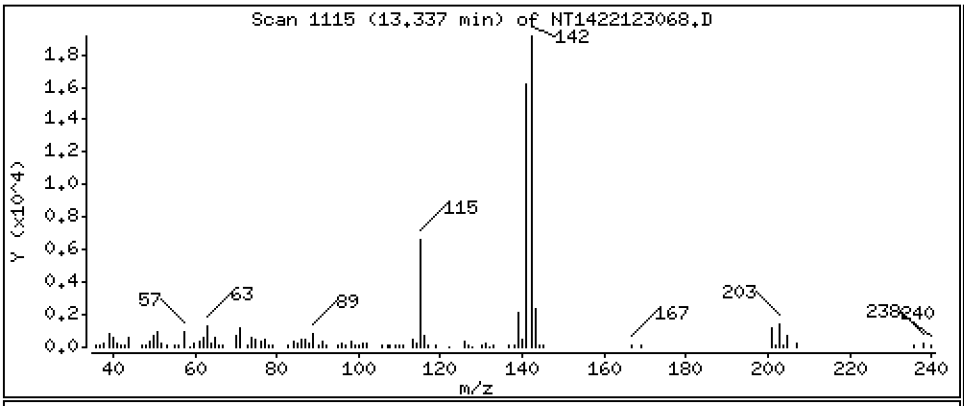
Operator: VTS

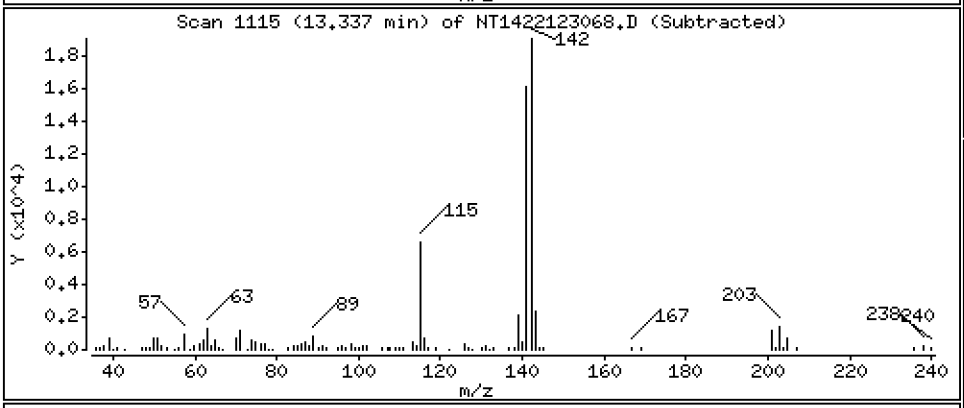
Column phase: ZB-5msi

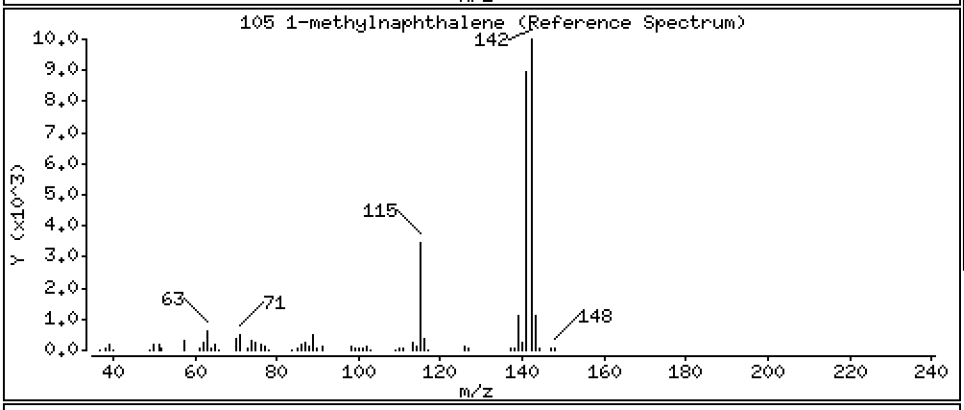
Column diameter: 0.25

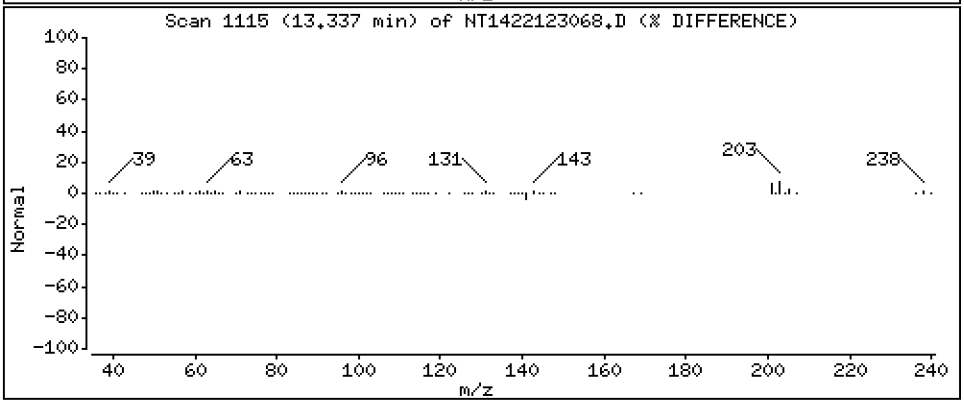
105 1-methylnaphthalene

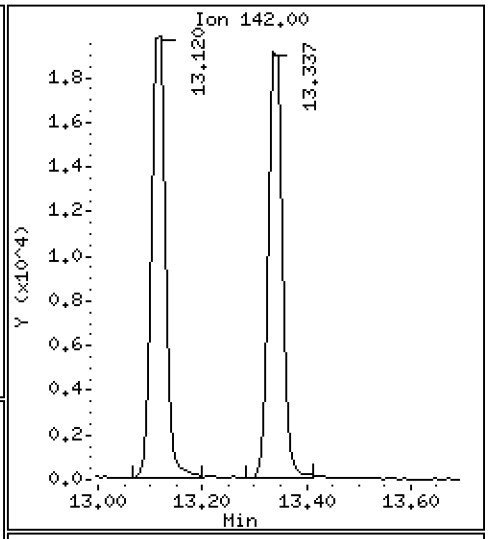
Concentration: 0.4742 ug/mL

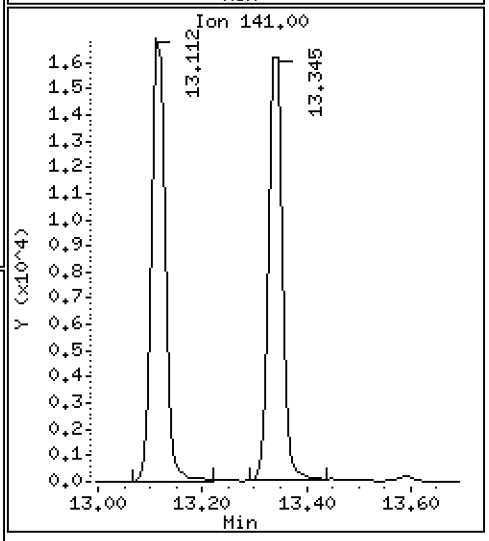












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

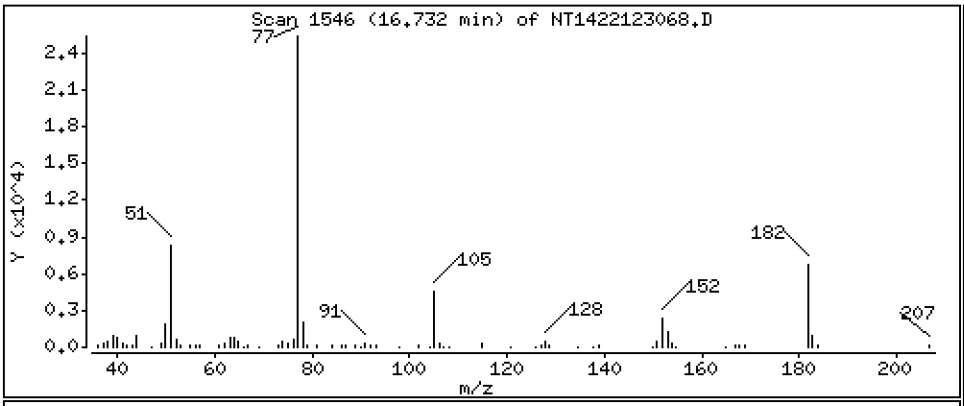
Operator: VTS

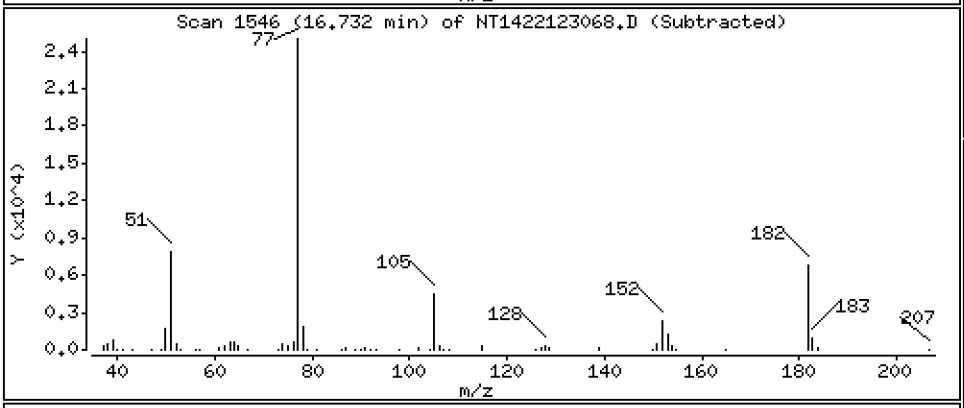
Column phase: ZB-5msi

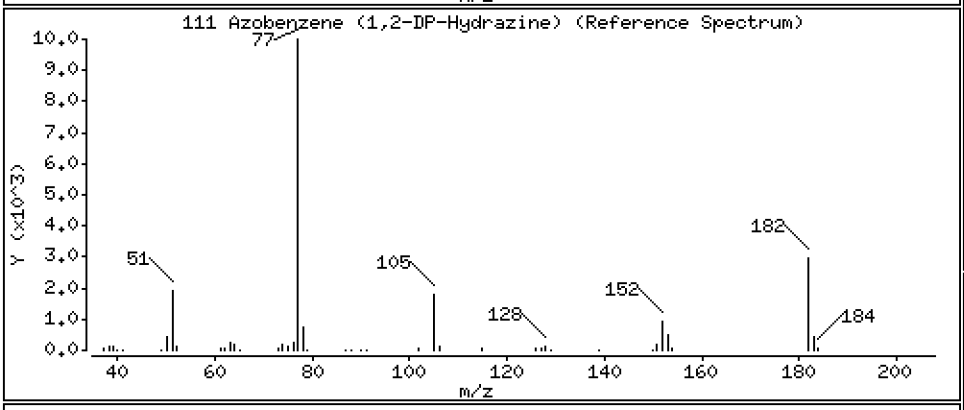
Column diameter: 0.25

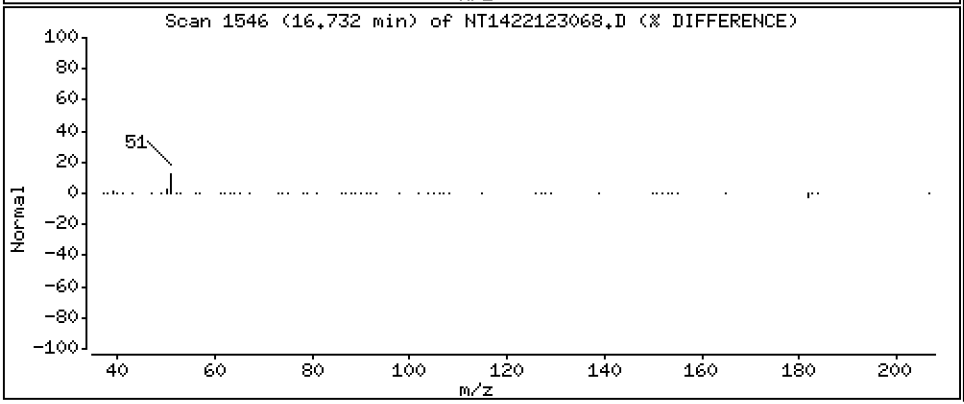
111 Azobenzene (1,2-DP-Hydrazine)

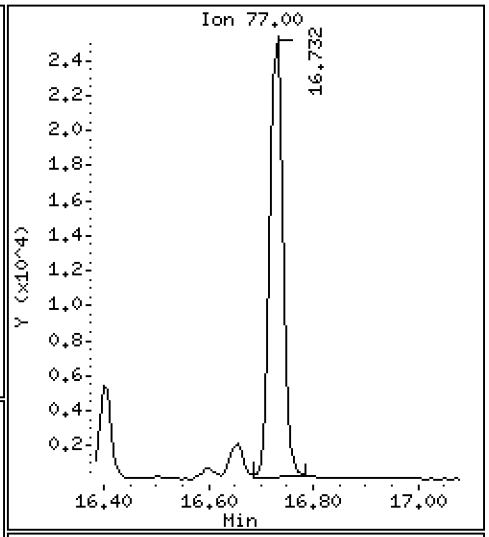
Concentration: 0.5334 ug/mL

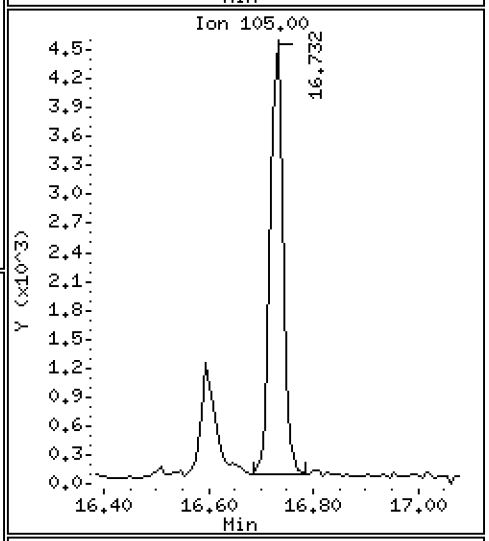


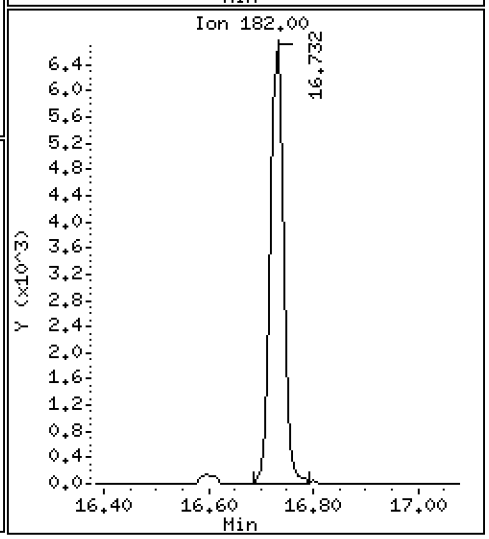












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

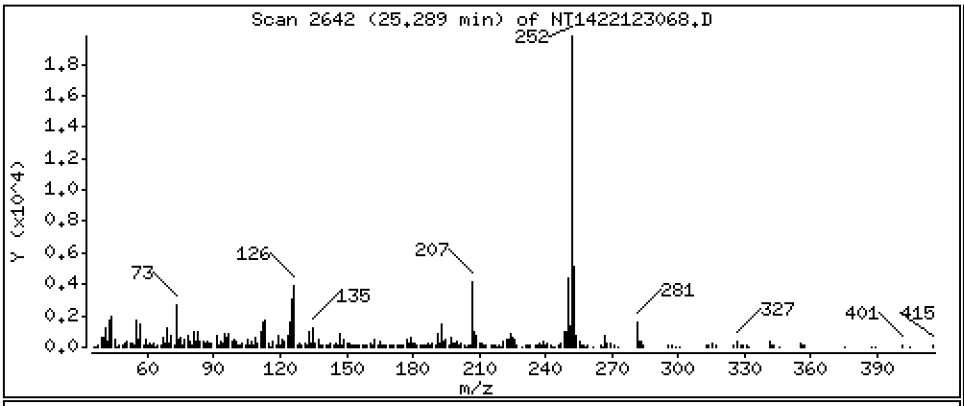
Operator: VTS

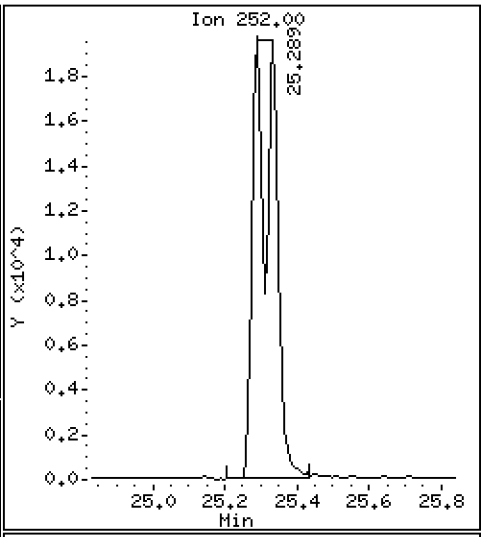
Column phase: ZB-5msi

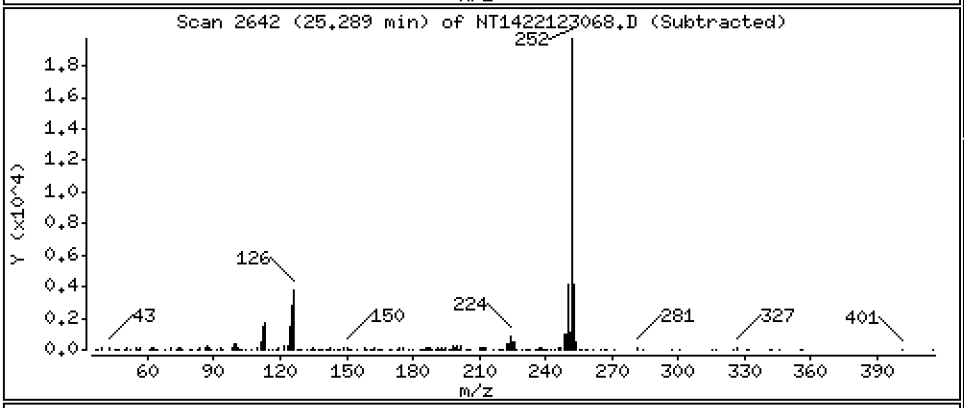
Column diameter: 0.25

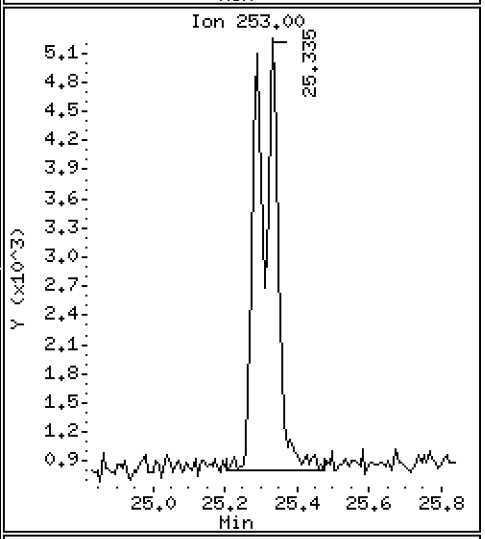
187 Total Benzofluoranthenes

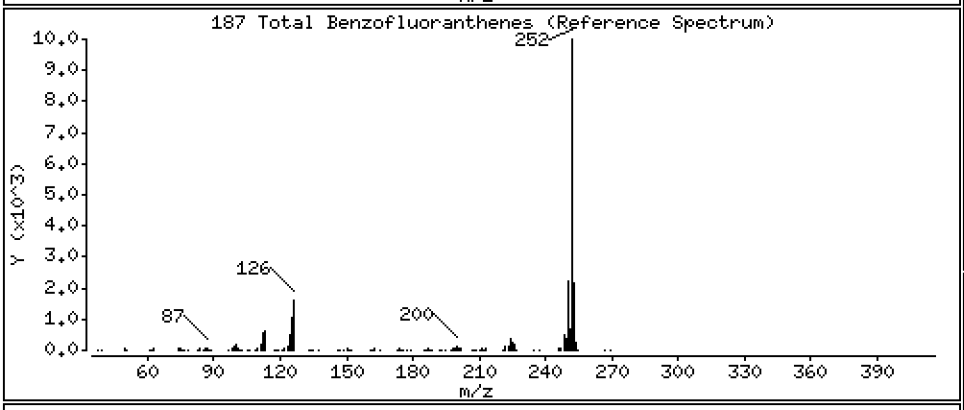
Concentration: 1.127 ug/mL

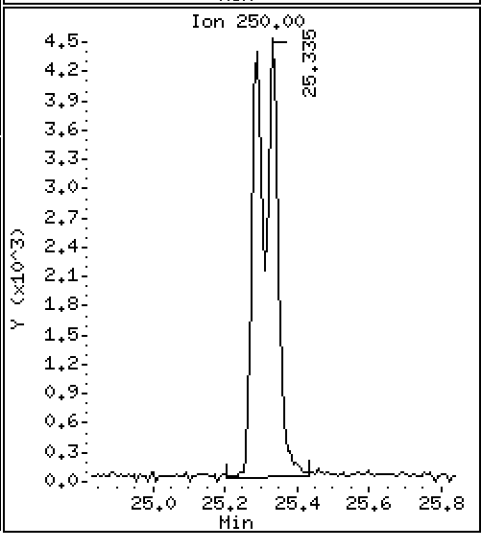


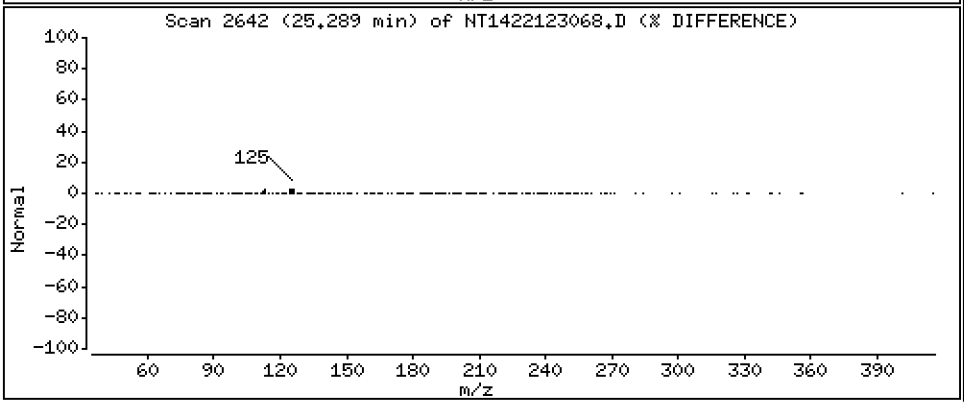












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Date : 01-JAN-2023 00:42

Client ID:

Instrument: nt14.i

Sample Info: SKL0355-LCV4

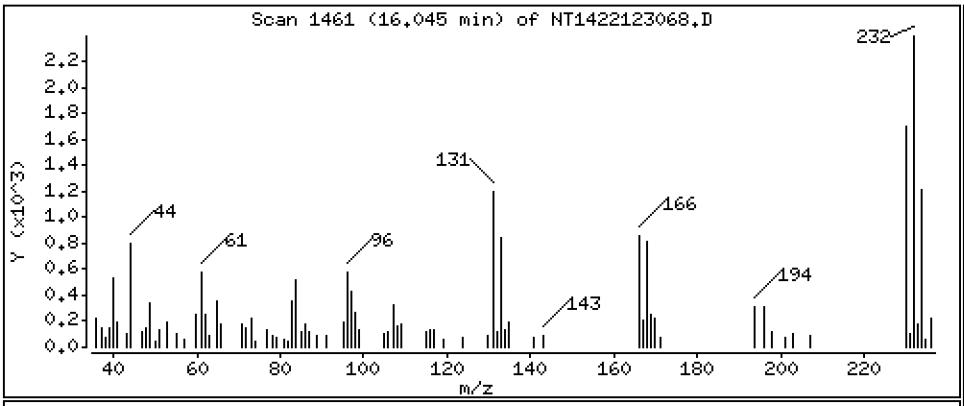
Operator: VTS

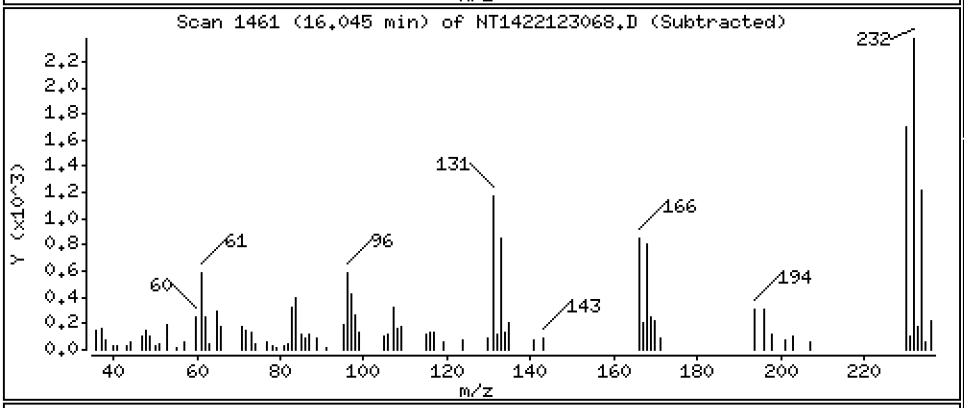
Column phase: ZB-5msi

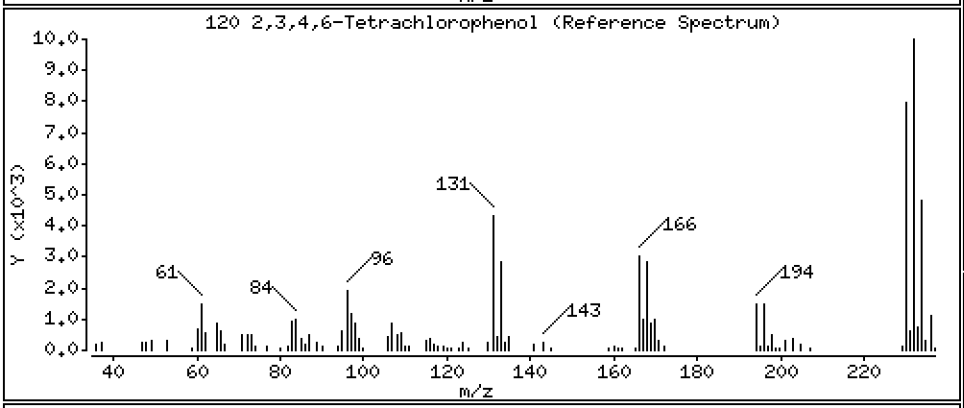
Column diameter: 0.25

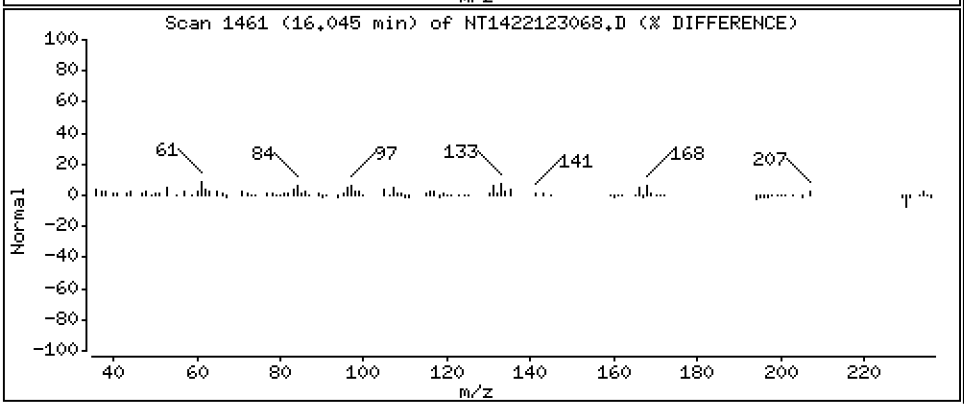
120 2,3,4,6-Tetrachlorophenol

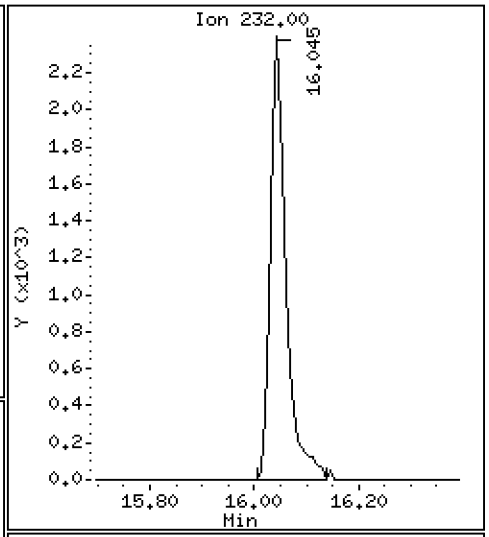
Concentration: 0.3210 ug/mL

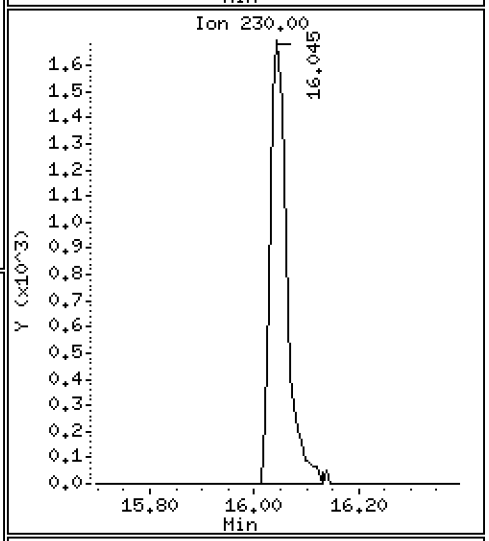


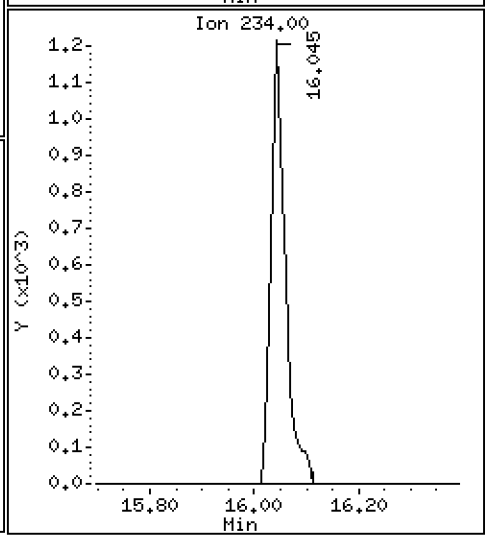












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 01-JAN-2023 00:42 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SKL0355-LCV4
Misc Info :
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Meth Date : 04-Jan-2023 09:32 van Quant Type: ISTD
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Als bottle: 5
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.919	6.919	(0.755)	26679	0.73231	0.7323
$	2 Phenol-d5	99	8.519	8.519	(0.930)	29740	0.66056	0.6606
	3 Phenol	94	8.542	8.542	(0.932)	24851	0.48577	0.4858
$	5 2-Chlorophenol-d4	132	8.797	8.797	(0.960)	26376	0.69756	0.6976
	4 Bis(2-Chloroethyl)ether	93	8.696	8.696	(0.949)	16971	0.48157	0.4816
	6 2-Chlorophenol	128	8.828	8.827	(0.964)	21442	0.51635	0.5163
	7 1,3-Dichlorobenzene	146	9.098	9.098	(0.993)	21932	0.49807	0.4981
*	8 1,4-Dichlorobenzene-d4	152	9.160	9.160	(1.000)	113715	4.00000	
	9 1,4-Dichlorobenzene	146	9.191	9.191	(1.003)	21144	0.50685	0.5068
$	10 1,2-Dichlorobenzene-d4	152	9.525	9.525	(1.040)	12409	0.48016	0.4802
	12 1,2-Dichlorobenzene	146	9.548	9.556	(1.042)	20298	0.49614	0.4961
	11 Benzyl alcohol	108	9.440	9.440	(1.030)	8811	0.38688	0.3869
	14 2,2'-oxybis(1-Chloropropane)	121	9.735	9.735	(1.063)	5608	0.47279	0.4728(M)
	13 2-Methylphenol	108	9.665	9.665	(1.055)	18106	0.48706	0.4871
	17 Hexachloroethane	117	10.154	10.154	(1.108)	6330	0.41257	0.4126
	16 N-Nitroso-di-n-propylamine	70	9.991	9.998	(1.091)	11492	0.50748	0.5075
	15 4-Methylphenol	108	9.937	9.936	(1.085)	18249	0.46535	0.4654
$	18 Nitrobenzene-d5	82	10.262	10.262	(0.880)	16843	0.48307	0.4831
	19 Nitrobenzene	77	10.293	10.301	(0.882)	16249	0.46925	0.4693
	20 Isophorone	82	10.751	10.751	(0.922)	19966	0.45240	0.4524
	21 2-Nitrophenol	139	10.938	10.937	(0.938)	10030	0.47315	0.4732
	22 2,4-Dimethylphenol	107	10.992	10.992	(0.942)	35304	0.97686	0.9769
	23 Bis(2-Chloroethoxy)methane	93	11.178	11.186	(0.958)	16990	0.49487	0.4949
	24 Benzoic acid	105	11.093	11.209	(0.951)	9855	0.44771	0.4477
	25 2,4-Dichlorophenol	162	11.395	11.395	(0.977)	29244	0.95995	0.9599
	26 1,2,4-Trichlorobenzene	180	11.581	11.581	(0.993)	16108	0.48901	0.4890
*	27 Naphthalene-d8	136	11.666	11.673	(1.000)	412900	4.00000	
	28 Naphthalene	128	11.712	11.712	(1.004)	49324	0.48541	0.4854
	29 4-Chloroaniline	127	11.835	11.835	(1.015)	37233	0.88851	0.8885
	30 Hexachlorobutadiene	225	12.075	12.075	(1.035)	7808	0.47774	0.4777
	31 4-Chloro-3-methylphenol	107	12.818	12.810	(1.099)	27298	0.94955	0.9495
	32 2-Methylnaphthalene	142	13.120	13.120	(1.125)	34703	0.46559	0.4656
	33 Hexachlorocyclopentadiene	237	13.584	13.584	(0.888)	2182	0.13732	0.1373

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.747	13.739	(0.898)	15331	0.87384	0.8738
	35	2,4,5-Trichlorophenol	196	13.832	13.816	(0.904)	16238	0.80193	0.8019
$	36	2-Fluorobiphenyl	172	13.901	13.901	(0.908)	33358	0.47200	0.4720
	37	2-Chloronaphthalene	162	14.118	14.118	(0.923)	28915	0.48093	0.4809
	38	2-Nitroaniline	65	14.373	14.373	(0.939)	15604	0.98717	0.9872
	39	Dimethylphthalate	163	14.799	14.799	(0.967)	29378	0.49559	0.4956
	40	Acenaphthylene	152	14.993	14.993	(0.980)	45647	0.49793	0.4979
	41	2,6-Dinitrotoluene	165	14.938	14.938	(0.976)	11674	0.87263	0.8726
*	42	Acenaphthene-d10	164	15.302	15.310	(1.000)	210199	4.00000	
	43	3-Nitroaniline	138	15.225	15.225	(0.995)	13799	0.84865	0.8487
	44	Acenaphthene	153	15.372	15.371	(1.005)	28173	0.49548	0.4955
	45	2,4-Dinitrophenol	184	15.457	15.441	(1.010)	140	0.01232	0.01232(M)
	46	Dibenzofuran	168	15.704	15.704	(1.026)	42021	0.49282	0.4928
	47	4-Nitrophenol	109	15.611	15.557	(1.020)	5233	0.67188	0.6719(M)
	48	2,4-Dinitrotoluene	165	15.750	15.750	(1.029)	14281	0.77805	0.7780
	50	Diethylphthalate	149	16.261	16.268	(1.063)	46077	0.57187	0.5719
	49	Fluorene	166	16.415	16.423	(1.073)	44261	0.48795	0.4880
	51	4-Chlorophenyl-phenylether	204	16.407	16.407	(1.072)	22749	0.51226	0.5123
	52	4-Nitroaniline	138	16.508	16.500	(1.079)	16284	0.83129	0.8313
	53	4,6-Dinitro-2-methylphenol	198	16.600	16.600	(0.904)	5489	0.38256	0.3826
	54	N-Nitrosodiphenylamine	169	16.654	16.654	(0.907)	29997	0.51151	0.5115
$	55	2,4,6-Tribromophenol	330	16.955	16.955	(1.108)	5302	0.53750	0.5375
	56	4-Bromophenyl-phenylether	248	17.410	17.410	(0.949)	10508	0.47320	0.4732
	57	Hexachlorobenzene	284	17.734	17.734	(0.966)	11873	0.48722	0.4872
	58	Pentachlorophenol	266	18.098	18.090	(0.986)	1094	0.10366	0.1037
*	59	Phenanthrene-d10	188	18.354	18.361	(1.000)	341756	4.00000	
	60	Phenanthrene	178	18.408	18.408	(1.003)	43053	0.48317	0.4832
	61	Anthracene	178	18.501	18.500	(1.008)	41243	0.48484	0.4848
	62	Carbazole	167	18.833	18.825	(1.026)	38498	0.46815	0.4681
	63	Di-n-butylphthalate	149	19.615	19.614	(1.069)	44555	0.47888	0.4789
	64	Fluoranthene	202	20.791	20.791	(0.889)	44357	0.47195	0.4720
	65	Pyrene	202	21.216	21.216	(0.907)	47545	0.48113	0.4811
$	66	Terphenyl-d14	244	21.495	21.495	(0.919)	31626	0.45136	0.4514
	67	Butylbenzylphthalate	149	22.408	22.408	(0.958)	19630	0.52609	0.5261
	68	Benzo(a)anthracene	228	23.368	23.376	(0.999)	46031	0.52057	0.5206
*	69	Chrysene-d12	240	23.399	23.399	(1.000)	291897	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.322	23.322	(0.997)	44420	1.64100	1.641
	71	Chrysene	228	23.446	23.446	(1.002)	41769	0.50008	0.5001
	72	bis(2-Ethylhexyl)phthalate	149	23.430	23.430	(0.959)	26412	0.51360	0.5136
*	134	Di-n-octylphthalate-d4	153	24.421	24.421	(1.000)	463051	4.00000	
	73	Di-n-octylphthalate	149	24.429	24.429	(1.000)	54465	0.49000	0.4900
	74	Benzo(b)fluoranthene	252	25.288	25.296	(0.969)	39255	0.54365	0.5437
	75	Benzo(k)fluoranthene	252	25.335	25.335	(0.971)	41907	0.57023	0.5702
	76	Benzo(a)pyrene	252	25.962	25.970	(0.995)	31790	0.52962	0.5296
*	77	Perylene-d12	264	26.086	26.086	(1.000)	229756	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.853	28.838	(1.106)	19627	0.28764	0.2876
	79	Dibenzo(a,h)anthracene	278	28.869	28.853	(1.107)	17106	0.29501	0.2950
	80	Benzo(g,h,i)perylene	276	29.661	29.653	(1.137)	13763	0.24077	0.2408
	90	N-Nitrosodimethylamine	74	4.718	4.718	(0.515)	25361	1.01079	1.011
	91	Aniline	93	8.604	8.611	(0.939)	48364	0.97094	0.9709
	93	Benzidine	184	21.023	21.015	(0.898)	31719	0.88529	0.8853
	103	Pyridine	79	4.757	4.741	(0.519)	40010	0.50184	0.5018
	105	1-methylnaphthalene	142	13.336	13.344	(1.143)	33959	0.47418	0.4742
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.731	16.731	(1.093)	41634	0.53337	0.5334

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.288	25.335	(0.969)	78652	1.12670	1.127
120 2,3,4,6-Tetrachlorophenol	232	16.044	16.044	(1.048)	4758	0.32105	0.3210

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1422123068.D
Lab Smp Id: SKL0355-LCV4
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20221230C.b\ABN.m
Misc Info:

Calibration Date: 31-DEC-2022
Calibration Time: 23:30
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

COMPOUND	STANDARD	AREA LIMIT LOWER	AREA LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	138755	69378	277510	113715	-18.05
27 Naphthalene-d8	501723	250862	1003446	412900	-17.70
42 Acenaphthene-d10	275234	137617	550468	210199	-23.63
59 Phenanthrene-d10	440085	220043	880170	341756	-22.34
69 Chrysene-d12	384795	192398	769590	291897	-24.14
134 Di-n-octylphthala	674530	337265	1349060	463051	-31.35
77 Perylene-d12	336665	168333	673330	229756	-31.76

COMPOUND	STANDARD	RT LIMIT LOWER	RT LIMIT UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.16	8.66	9.66	9.16	0.00
27 Naphthalene-d8	11.67	11.17	12.17	11.67	-0.07
42 Acenaphthene-d10	15.31	14.81	15.81	15.30	-0.05
59 Phenanthrene-d10	18.36	17.86	18.86	18.35	-0.04
69 Chrysene-d12	23.40	22.90	23.90	23.40	0.00
134 Di-n-octylphthala	24.42	23.92	24.92	24.42	0.00
77 Perylene-d12	26.09	25.59	26.59	26.09	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1422123068.D

Lab ID: SKL0355-LCV4
nt14.i, 20221230C.b\ABN.m,   01-JAN-2023 00:42

RT	CO-ELUTION COMPOUNDS
NO CO-ELUTIONS	

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.960	-0.0093	Benzoic acid

RRT check based on Ccal File: NT1422123066.D

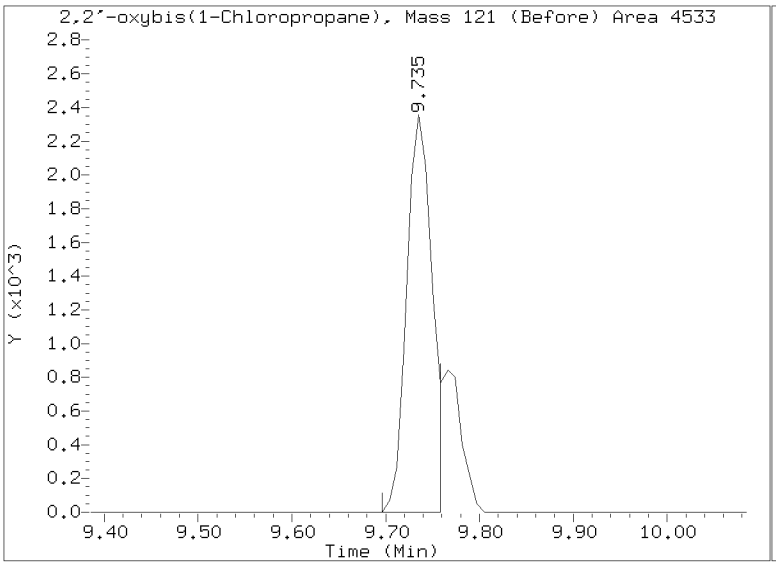
On Column LOD for nt14.i, 20221230C.b\ABN.m, ICAL.sub = 0.0000

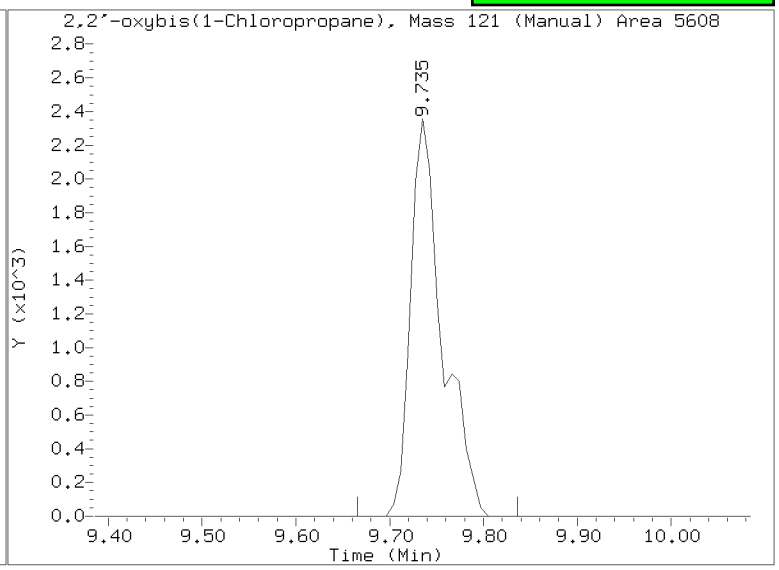
* Only compounds listed in the work order have been verified by the analyst *

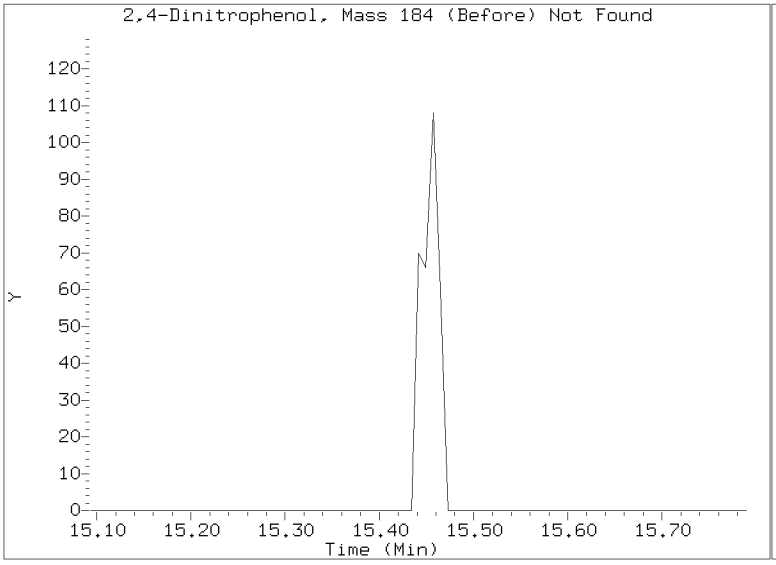
Quant Ion Manual Peak Adjustment Report

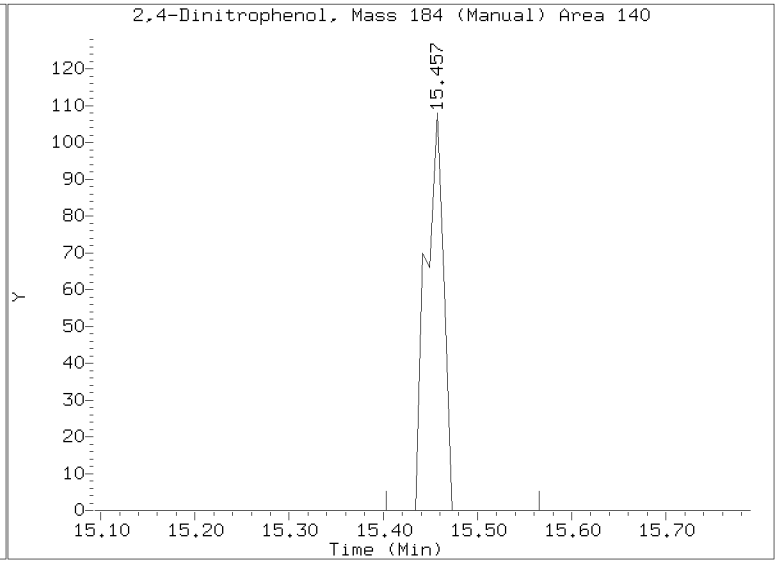
Datafile: //target/share/chem3/nt14.i/20221230C.b/NT1422123068.D
Injection Date: 01-JAN-2023 00:42
Lab ID:SKL0355-LCV4 Client ID:
Report Date: 01/04/2023 14:23

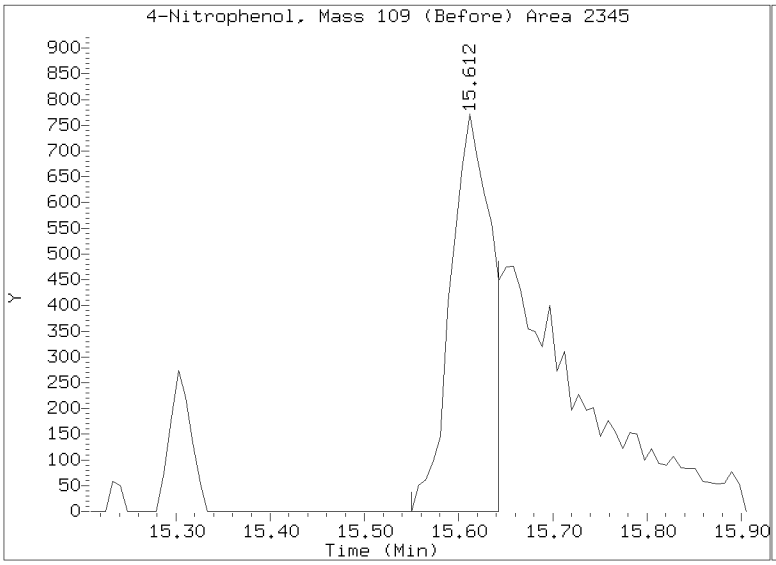
REVIEWED
By Brian Bebee
01/07/2023 @ 06:32 PM

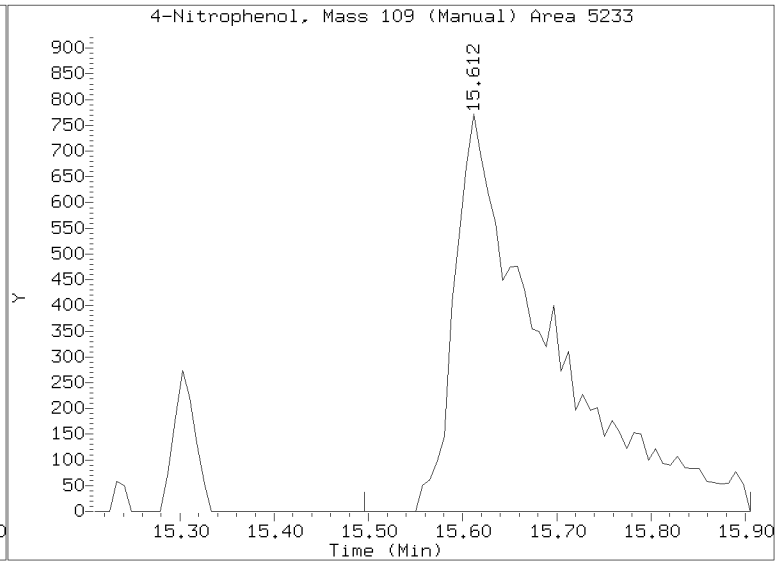












Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8270E

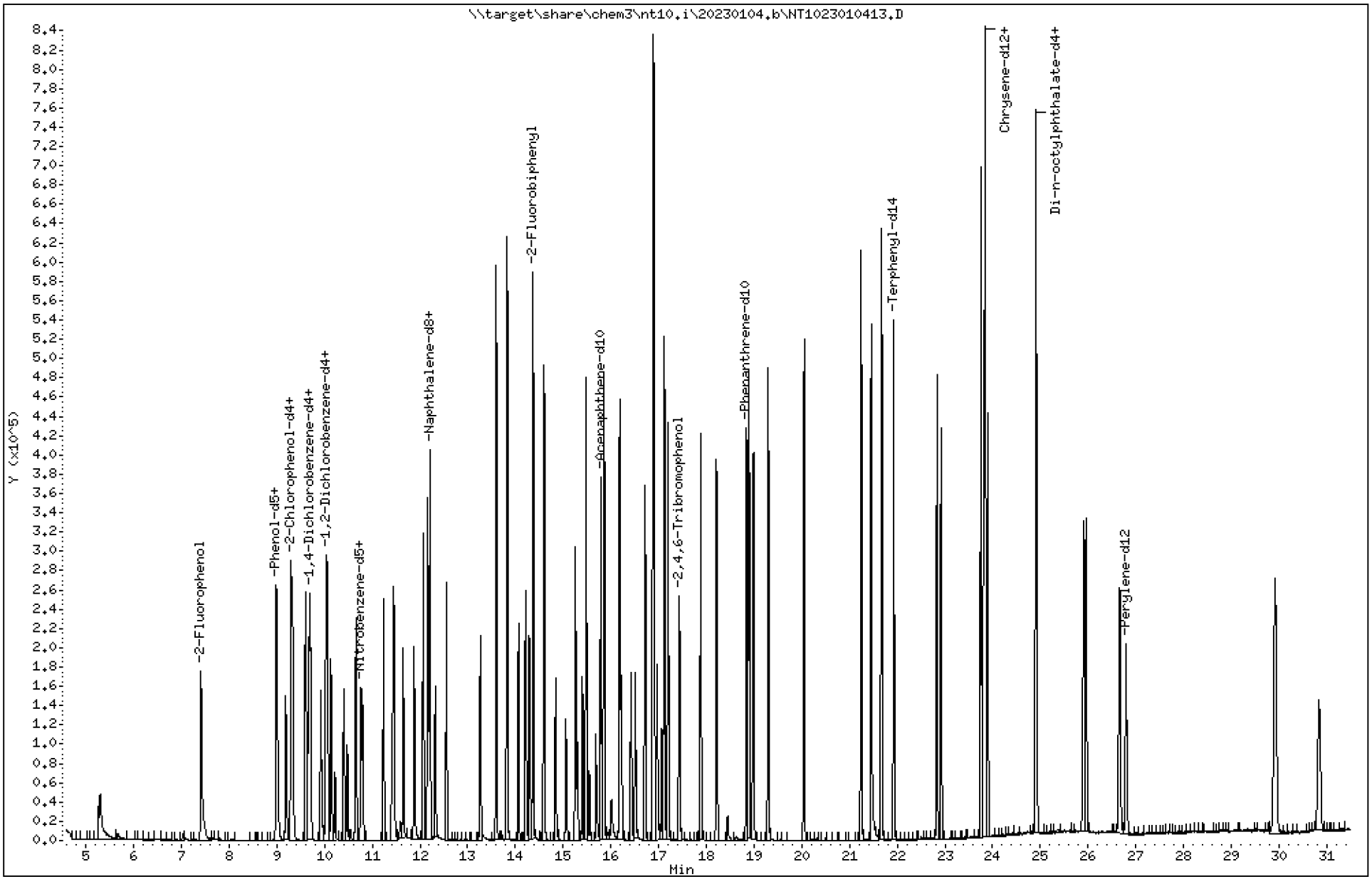
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010413.D	Calibration Date:	01/04/2023
Sequence:	SLA0012	Injection Date:	01/04/23
Lab Sample ID:	SLA0012-SCV1	Injection Time:	16:58
Sequence Name:	SCV 5.0		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Butylbenzylphthalate	A	5.0000	5.3	0.9455969	0.9560296		5.9	+/-20
p-Terphenyl-d14	A	5.0000	4.88	0.9692527	0.9452821		-2.5	+/-20

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D
Date : 04-JAN-2023 16:58
Client ID:
Sample Info: SLA0012-SCV1

Instrument: nt10.i
Operator: VTS
Column phase: ZB-5msi
Column diameter: 0.25



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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

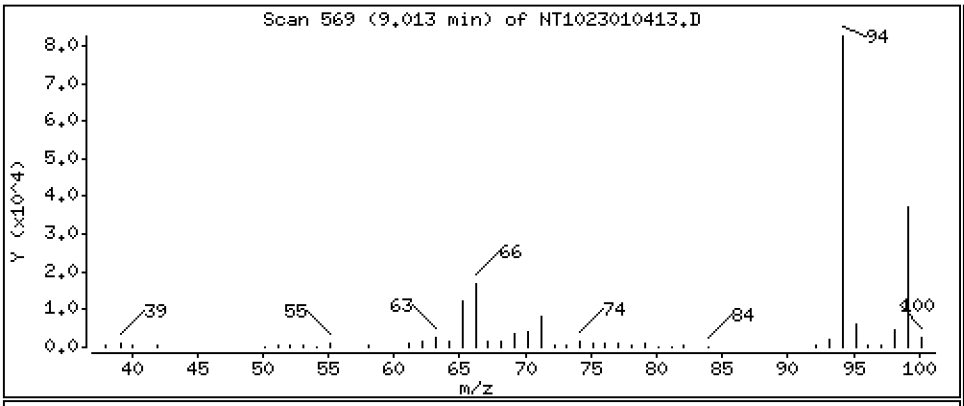
Operator: VTS

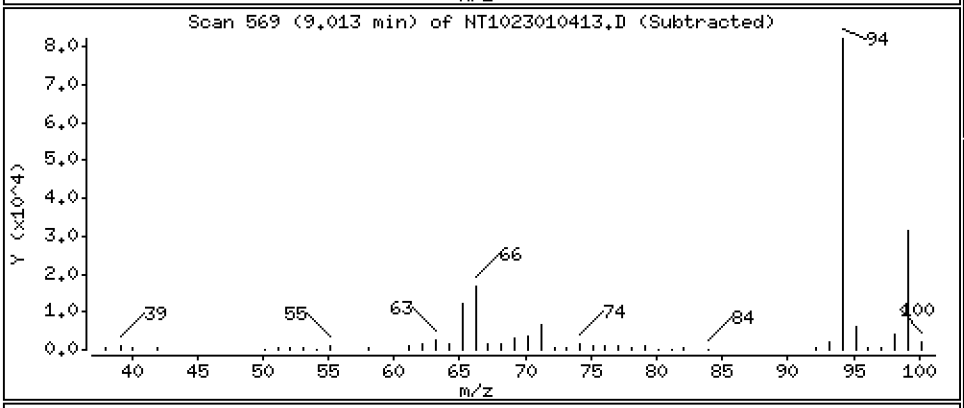
Column phase: ZB-5msi

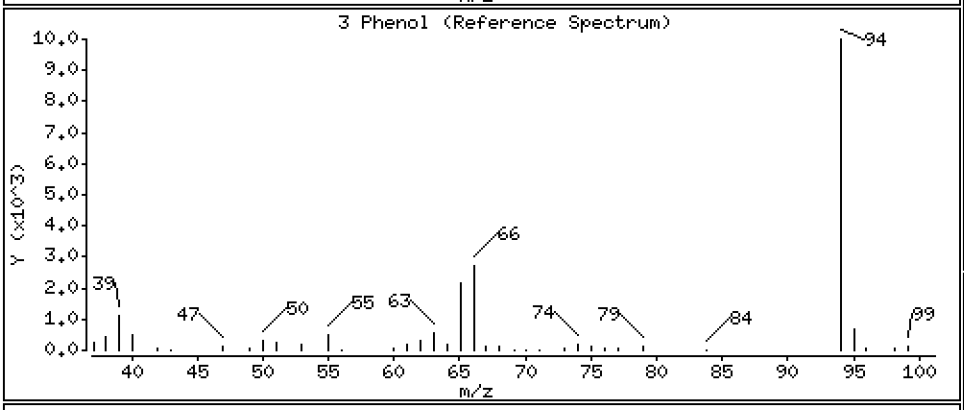
Column diameter: 0.25

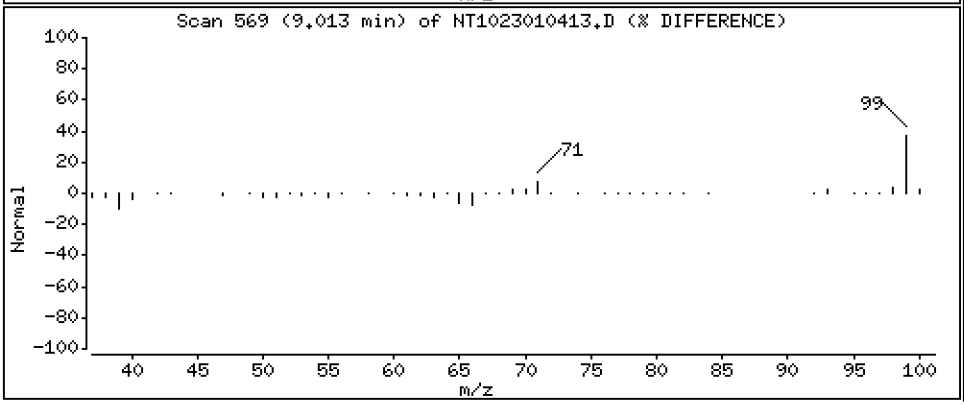
3 Phenol

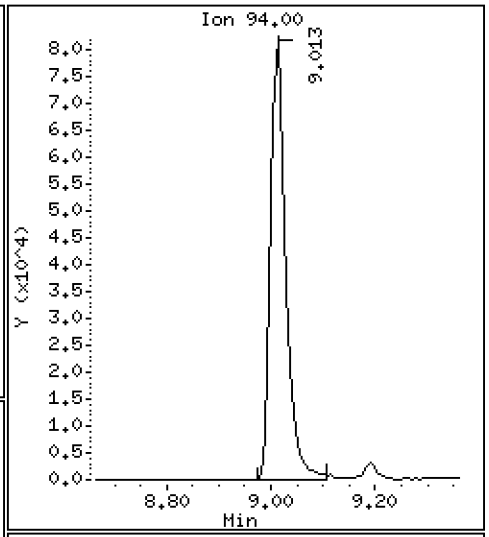
Concentration: 4.719 ug/mL

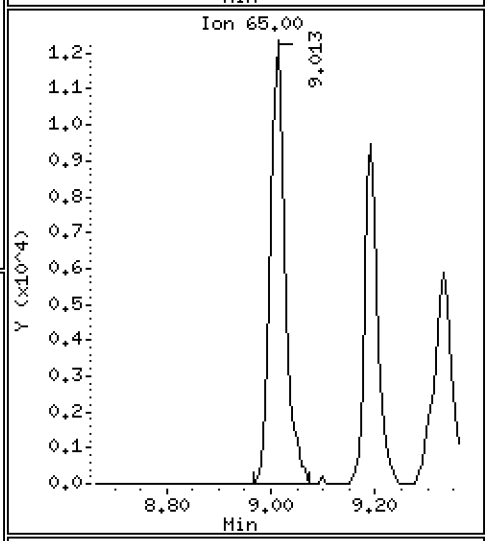


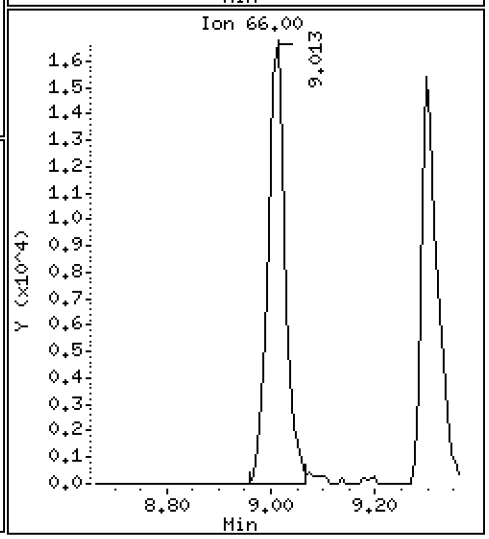












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

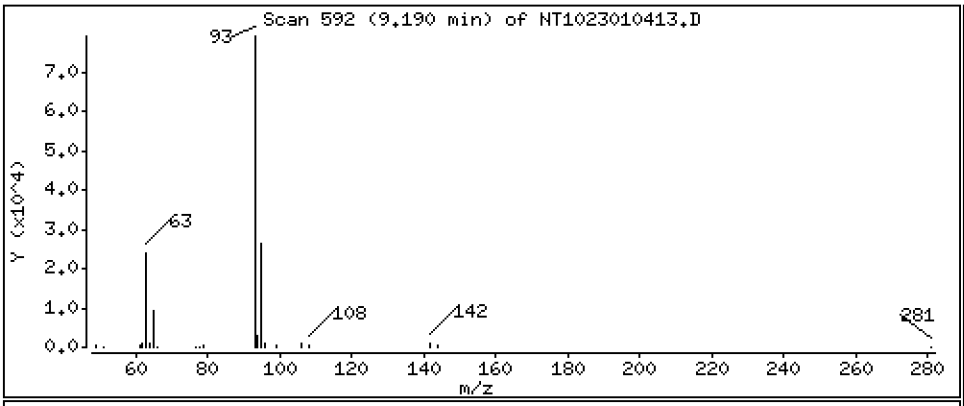
Operator: VTS

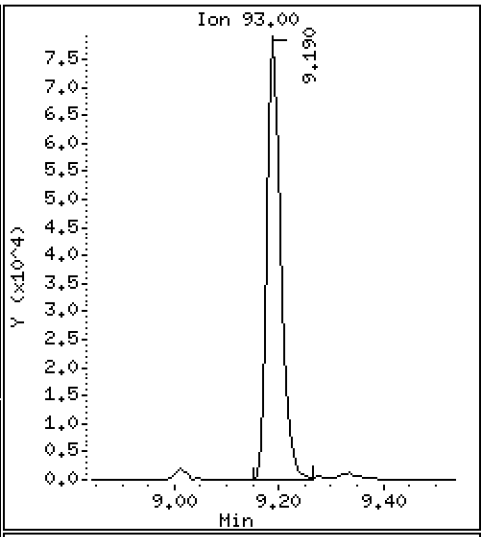
Column phase: ZB-5msi

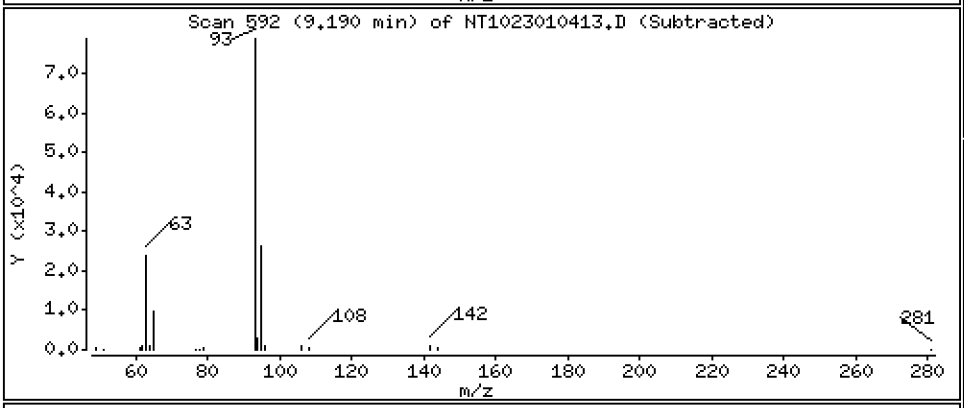
Column diameter: 0.25

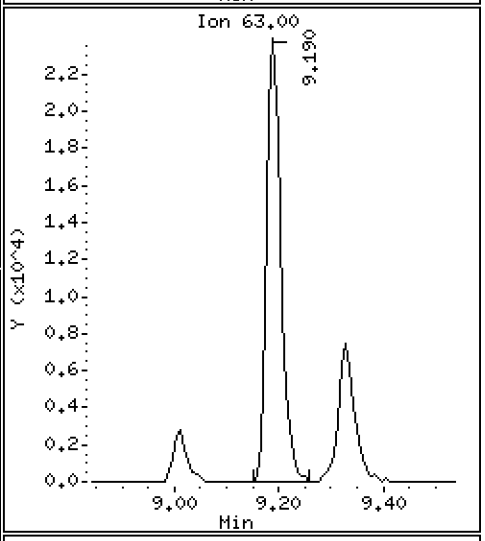
4 Bis(2-Chloroethyl)ether

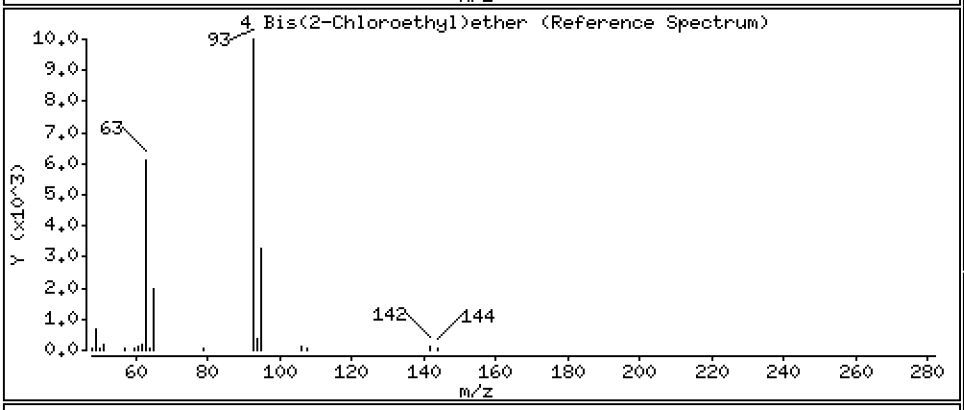
Concentration: 4.781 ug/mL

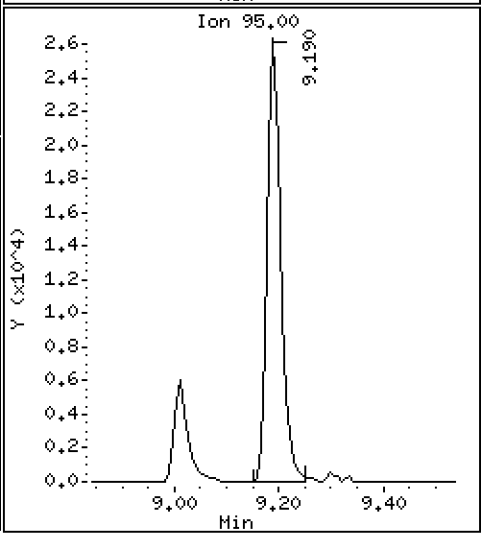


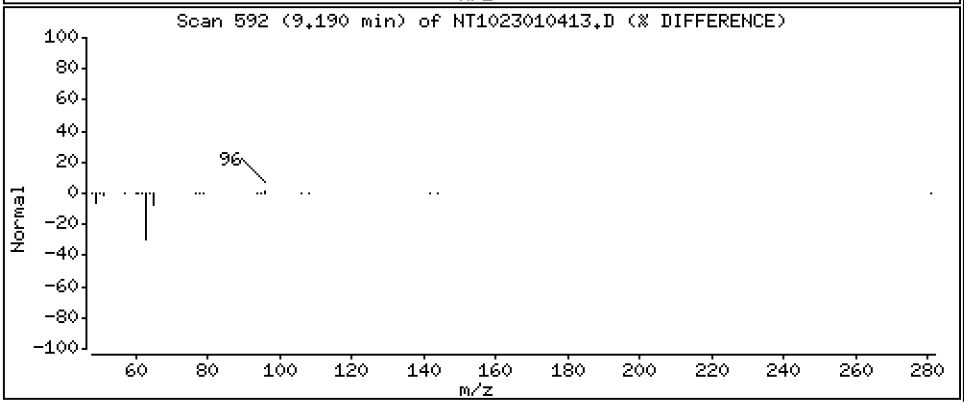












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

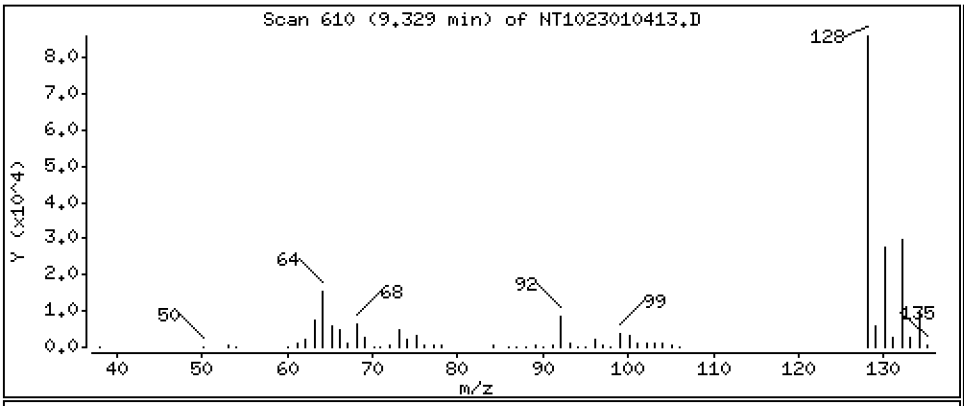
Operator: VTS

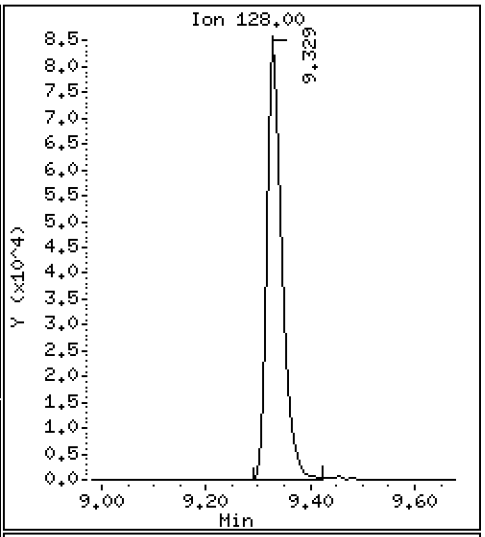
Column phase: ZB-5msi

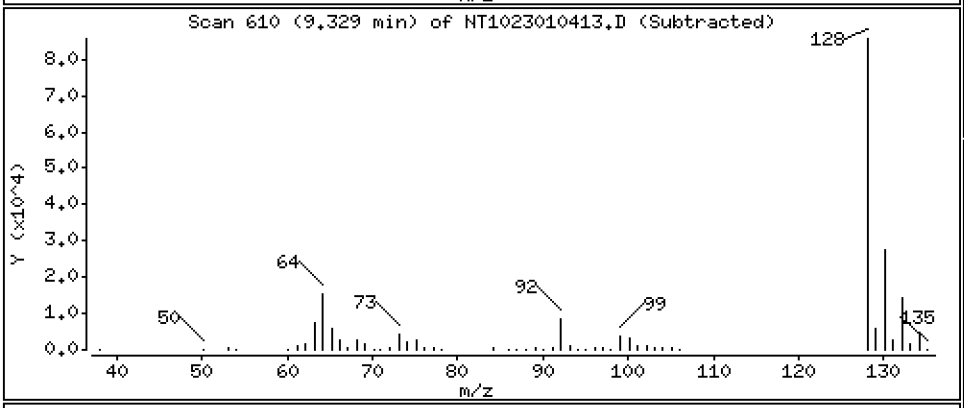
Column diameter: 0.25

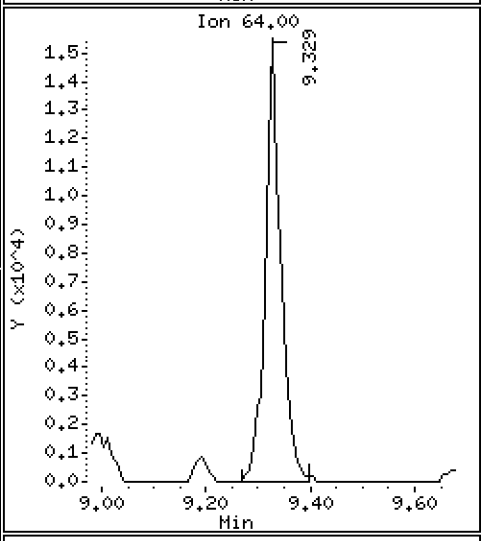
6 2-Chlorophenol

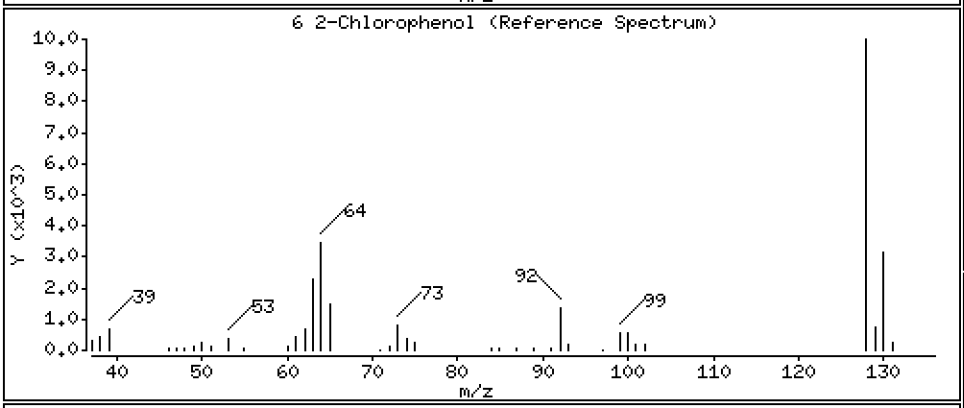
Concentration: 5.153 ug/mL

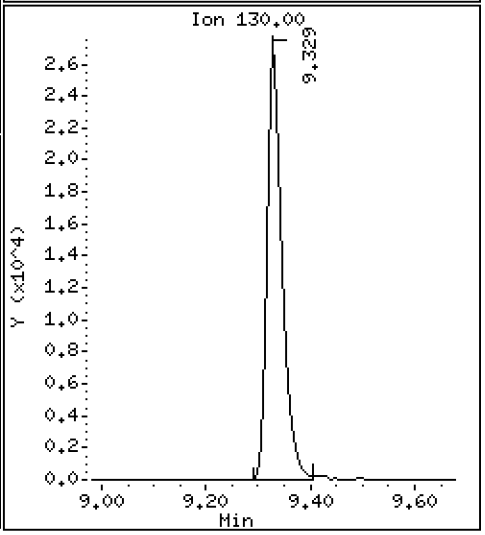


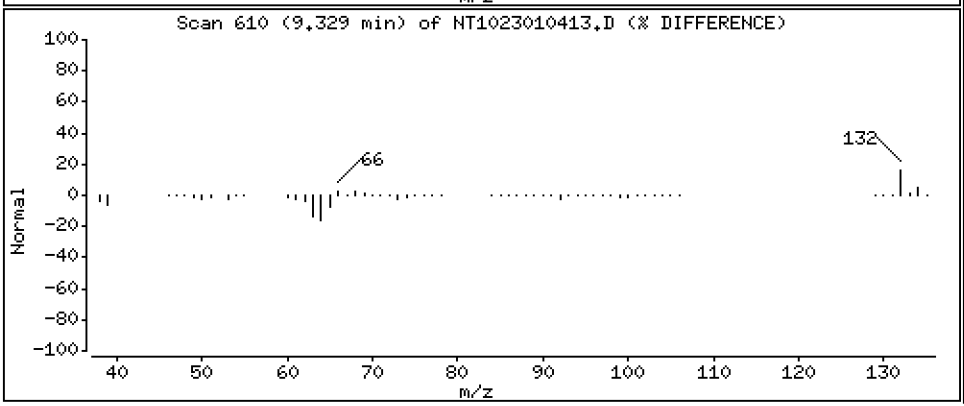












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

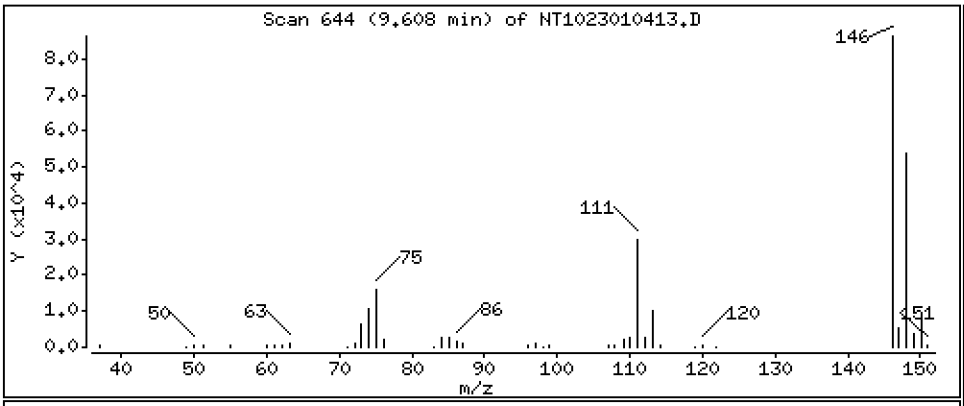
Operator: VTS

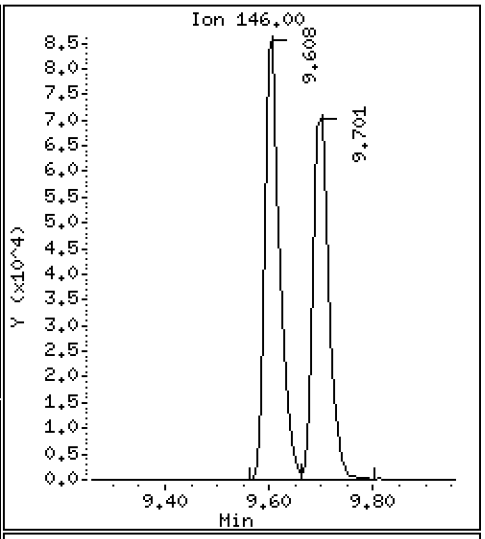
Column phase: ZB-5msi

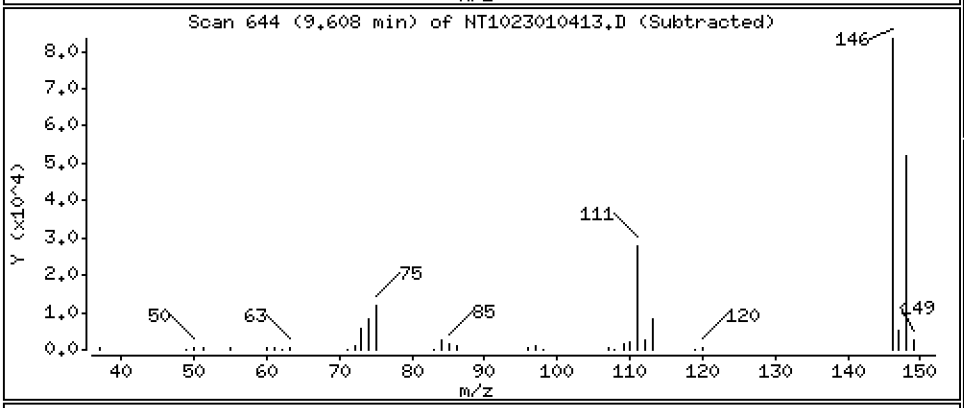
Column diameter: 0.25

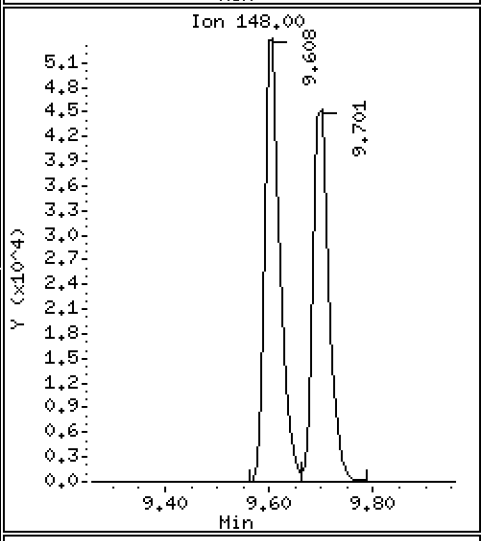
7 1,3-Dichlorobenzene

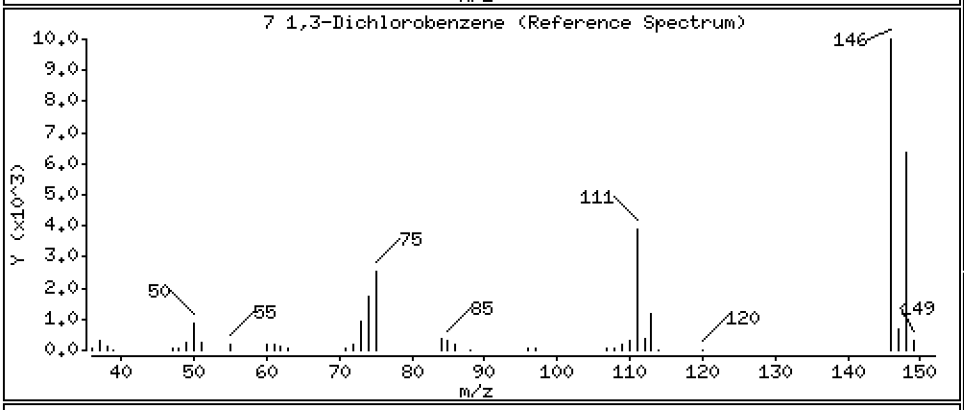
Concentration: 5.030 ug/mL

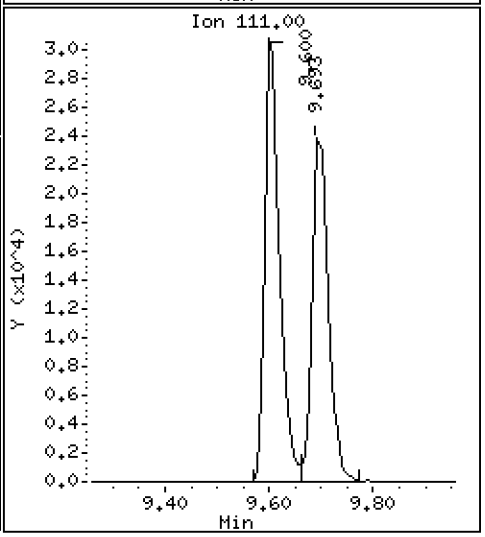


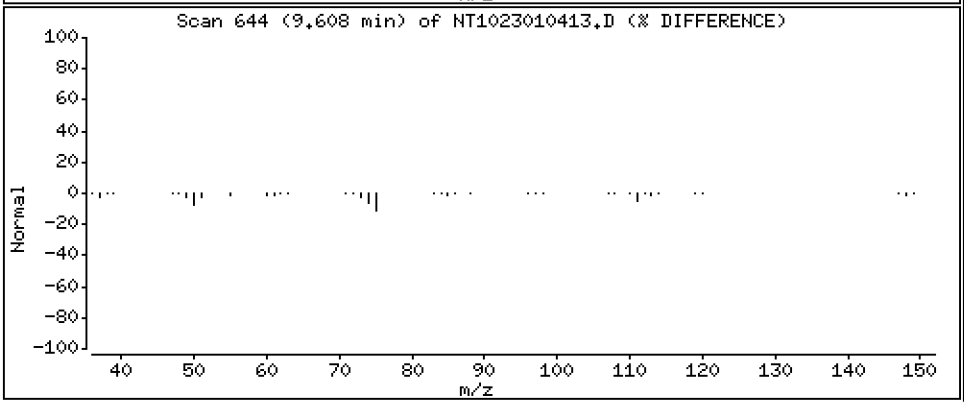












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

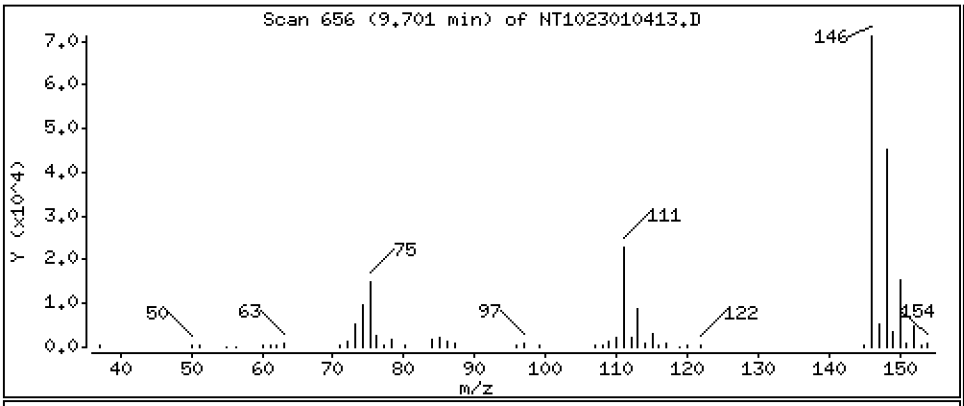
Operator: VTS

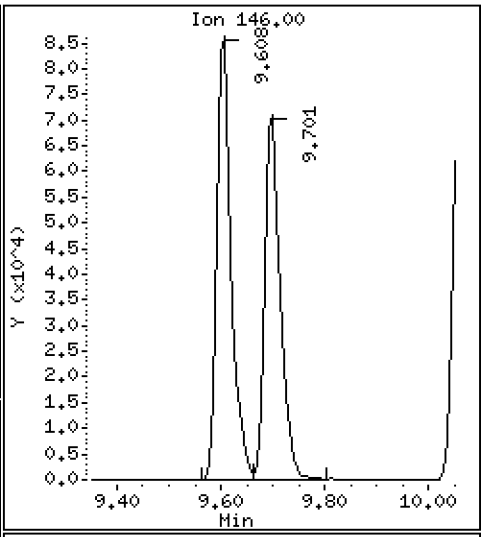
Column phase: ZB-5msi

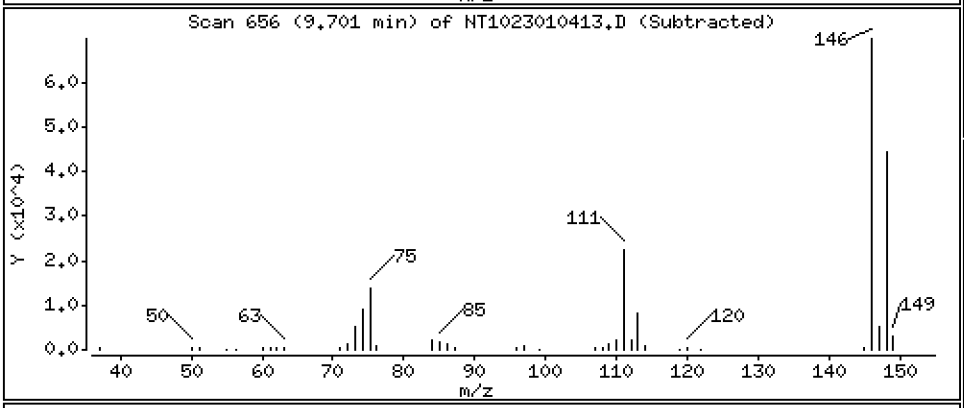
Column diameter: 0.25

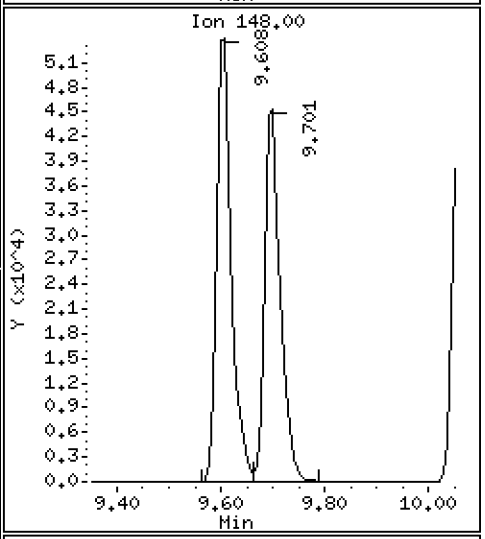
9 1,4-Dichlorobenzene

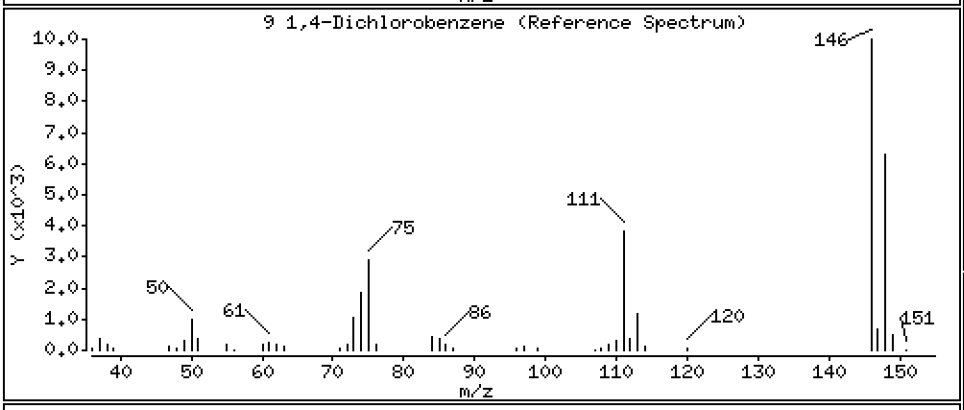
Concentration: 4.966 ug/mL

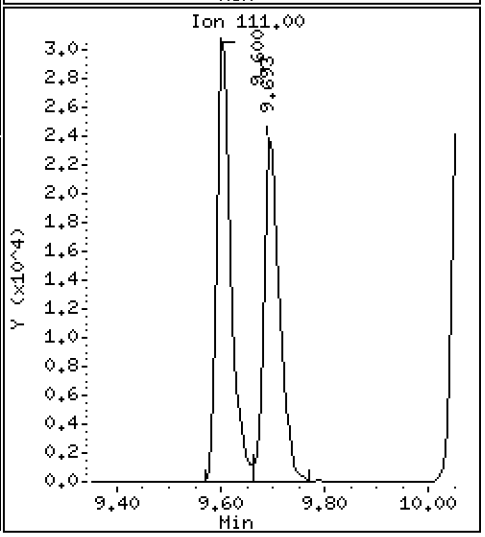


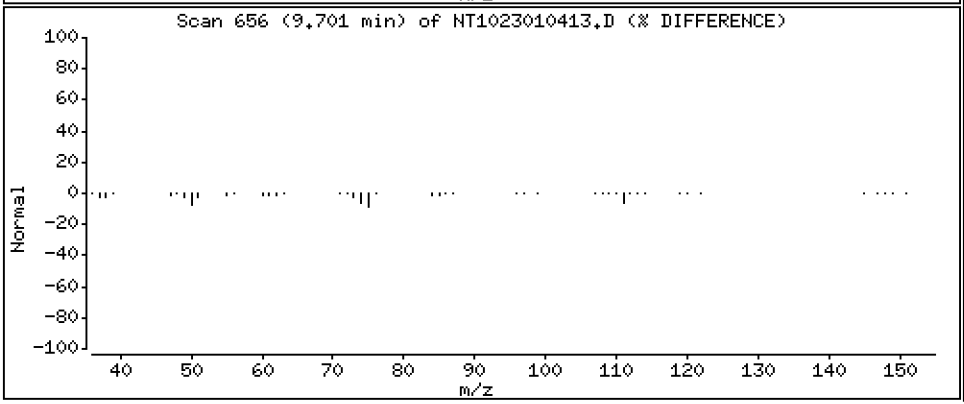












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

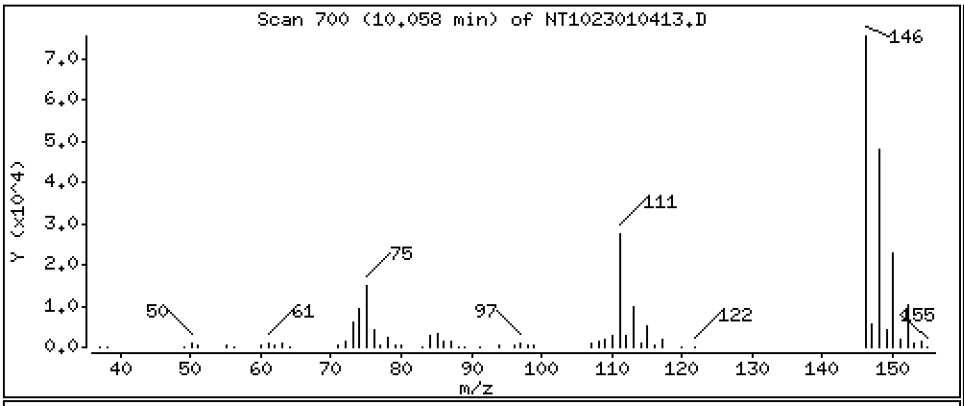
Operator: VTS

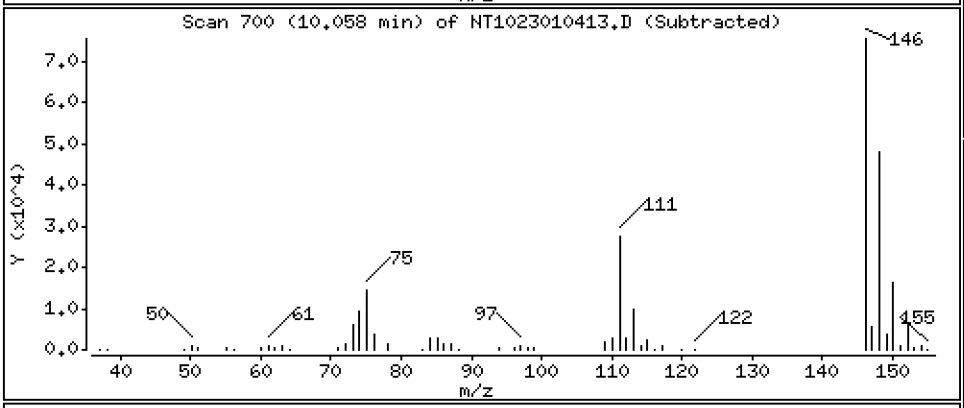
Column phase: ZB-5msi

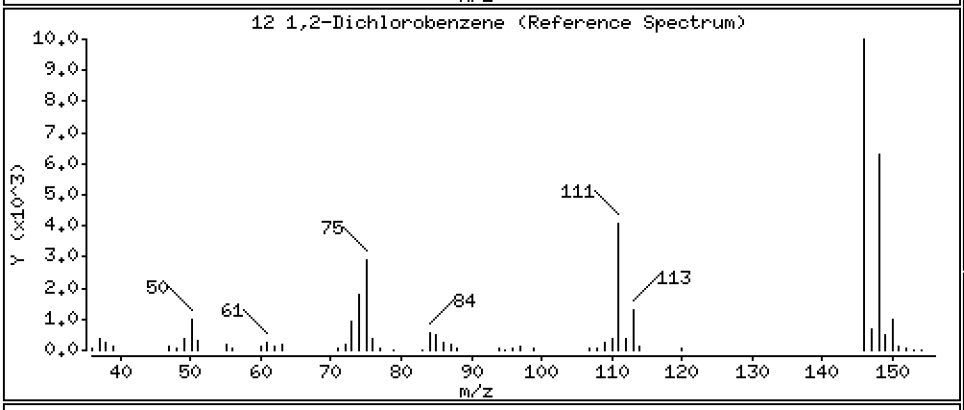
Column diameter: 0.25

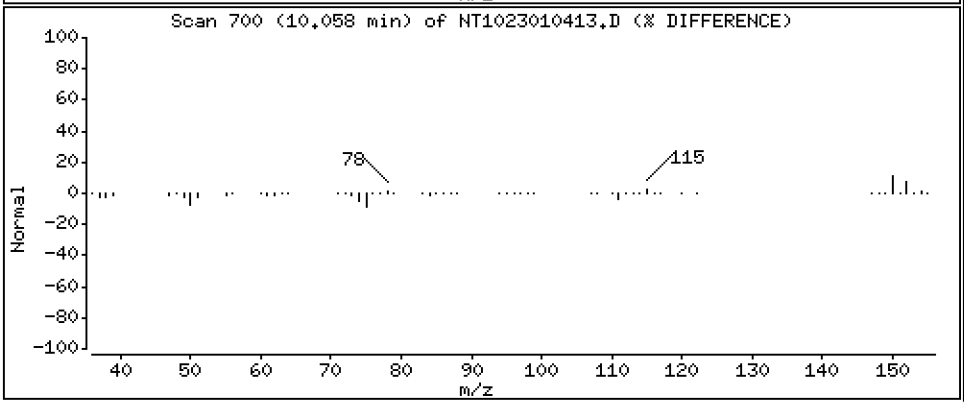
12 1,2-Dichlorobenzene

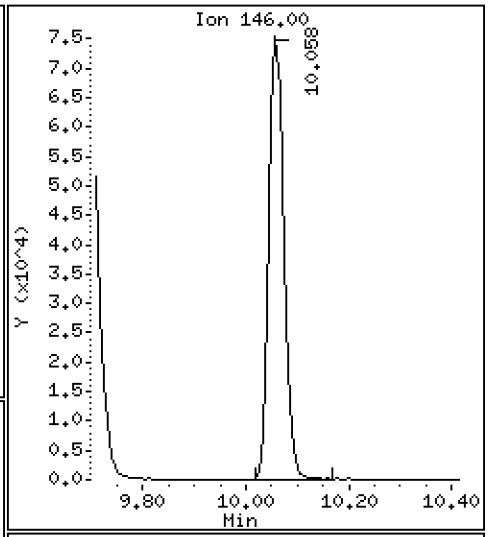
Concentration: 4.933 ug/mL

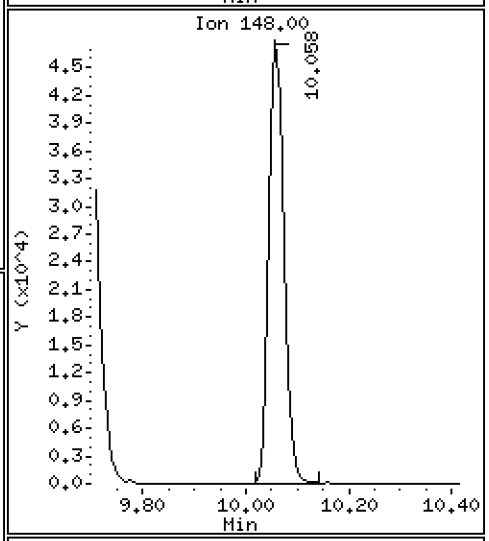


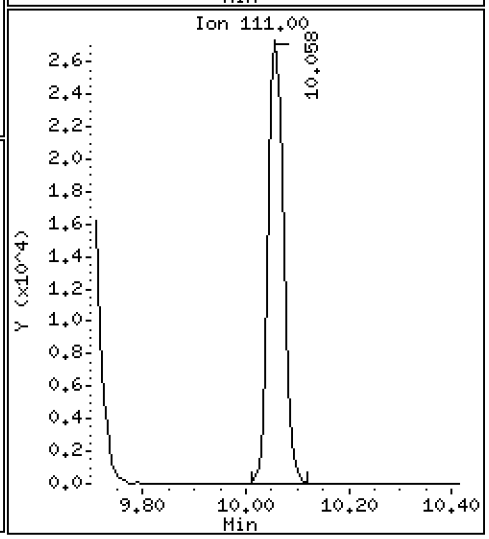












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

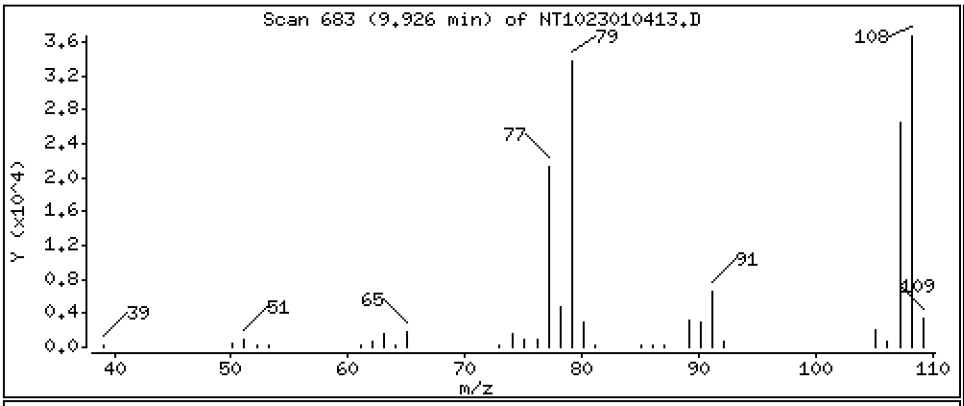
Operator: VTS

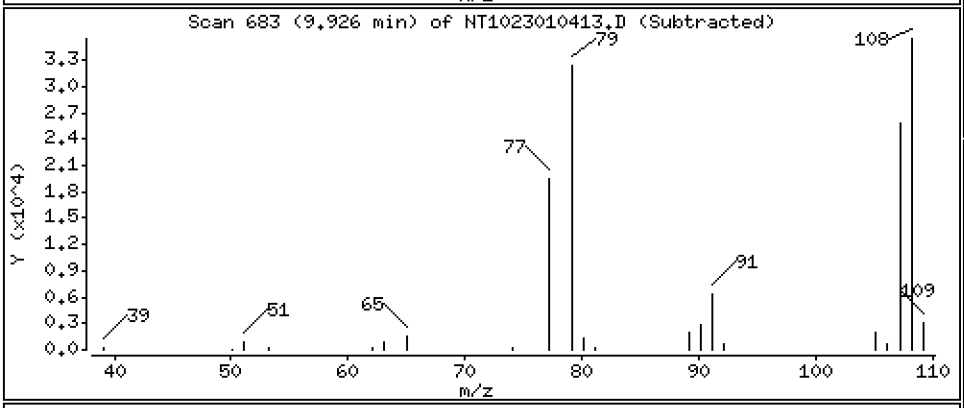
Column phase: ZB-5msi

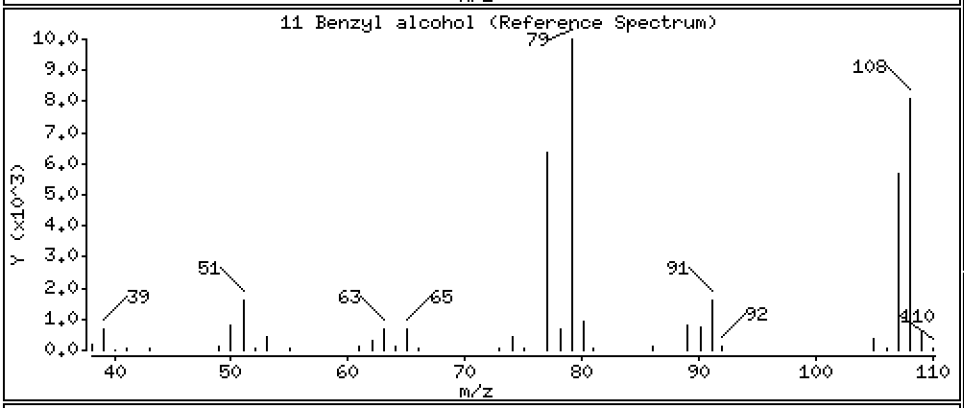
Column diameter: 0.25

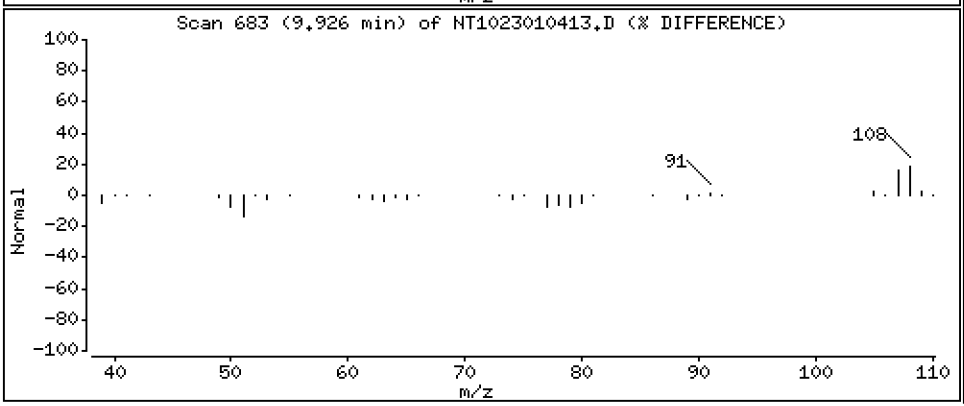
11 Benzyl alcohol

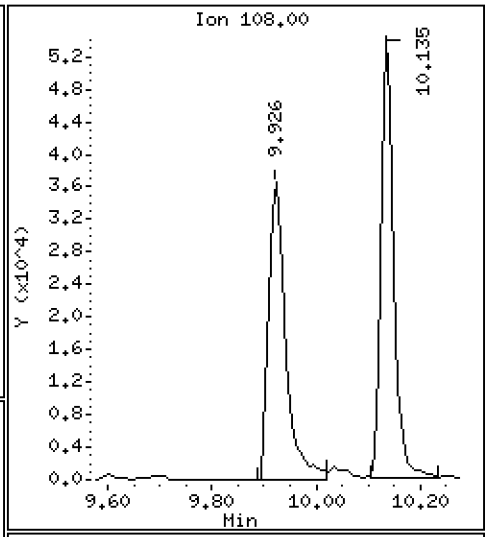
Concentration: 4.699 ug/mL

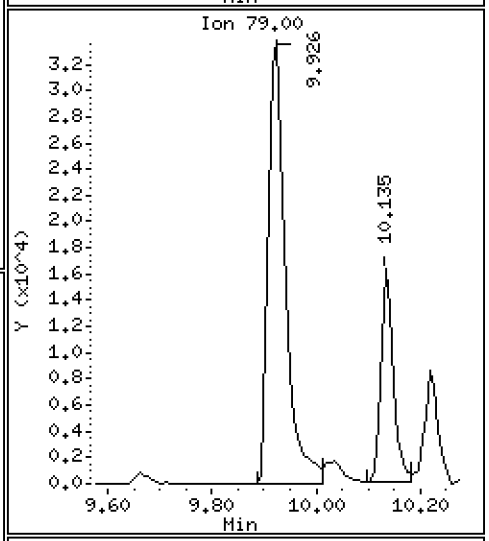


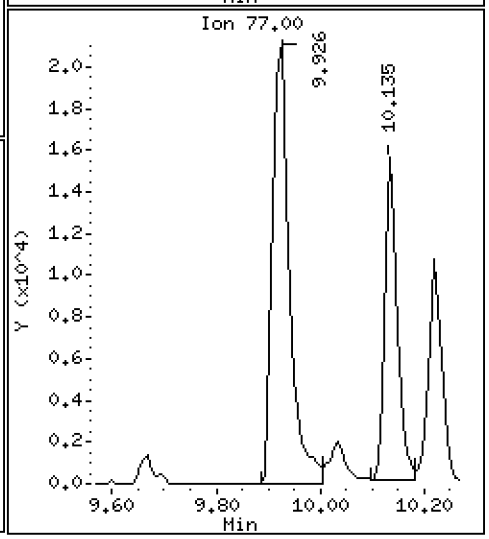












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

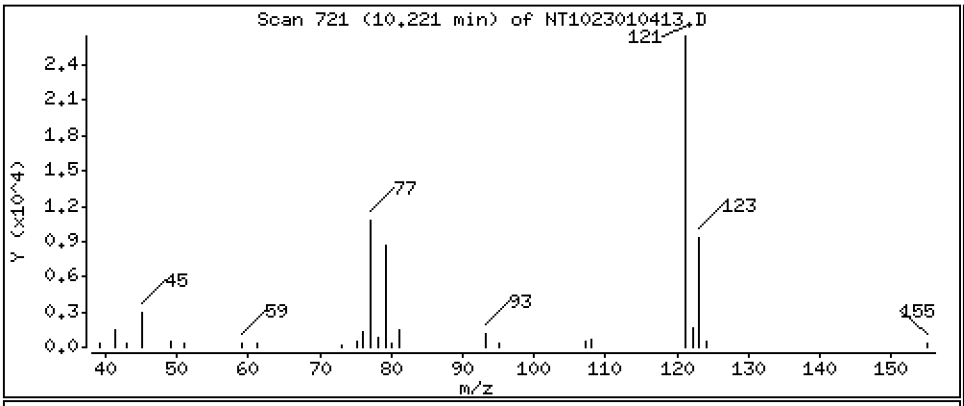
Operator: VTS

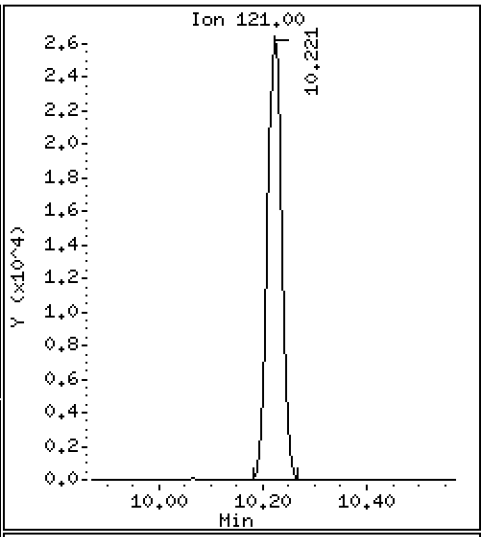
Column phase: ZB-5msi

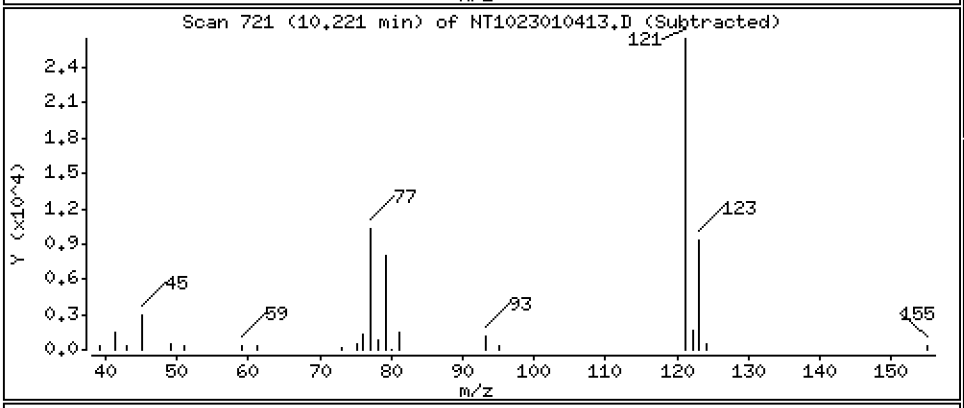
Column diameter: 0.25

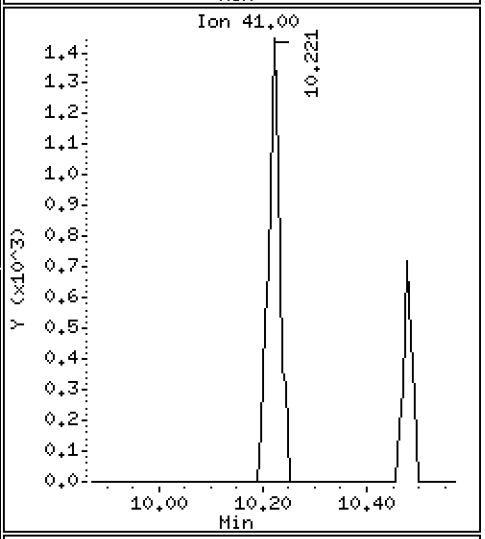
14 2,2'-oxybis(1-Chloropropane)

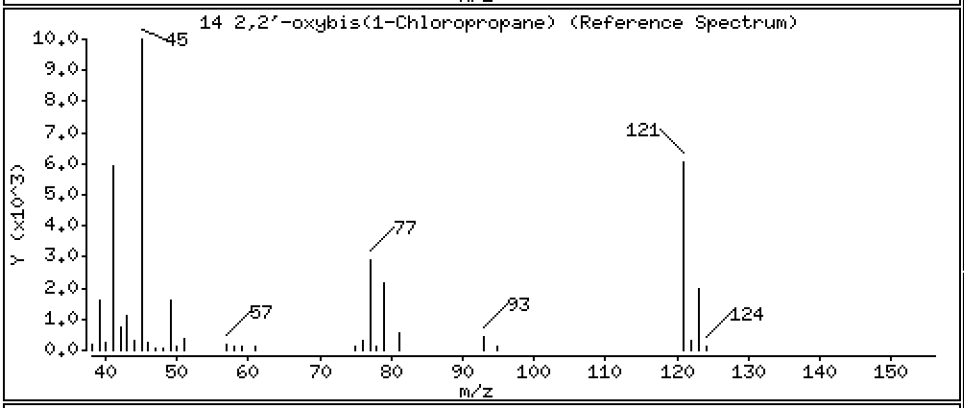
Concentration: 5.551 ug/mL

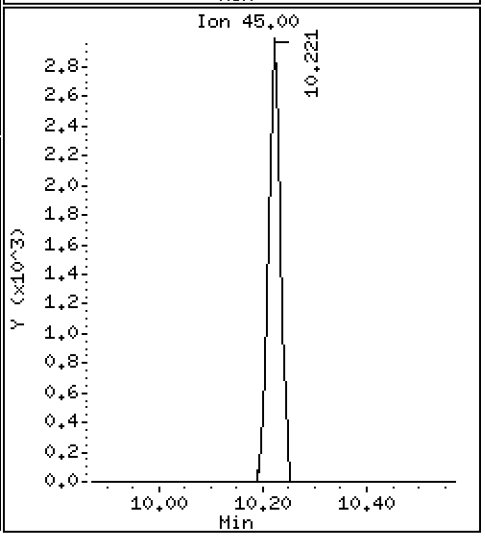


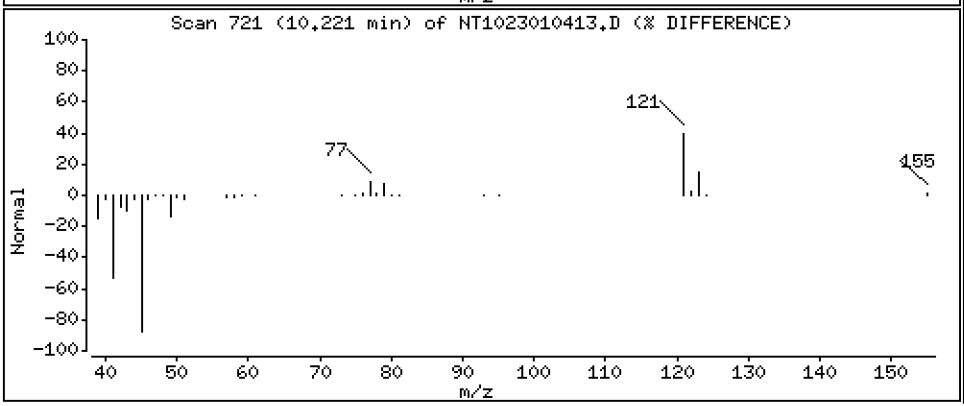












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

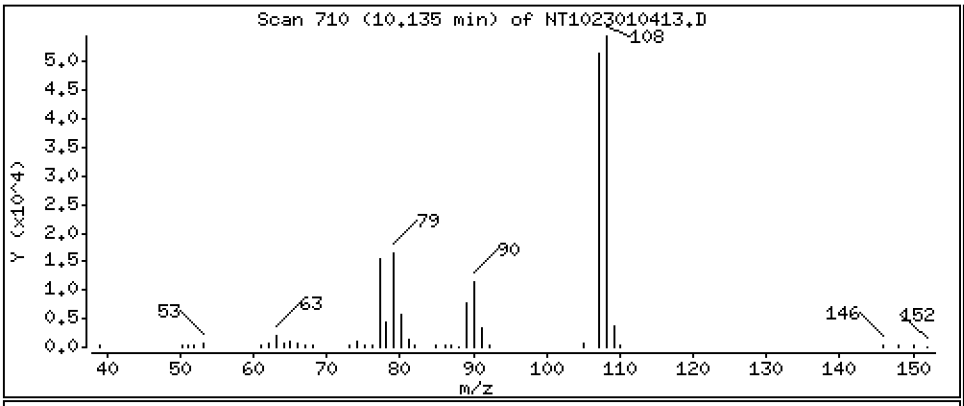
Operator: VTS

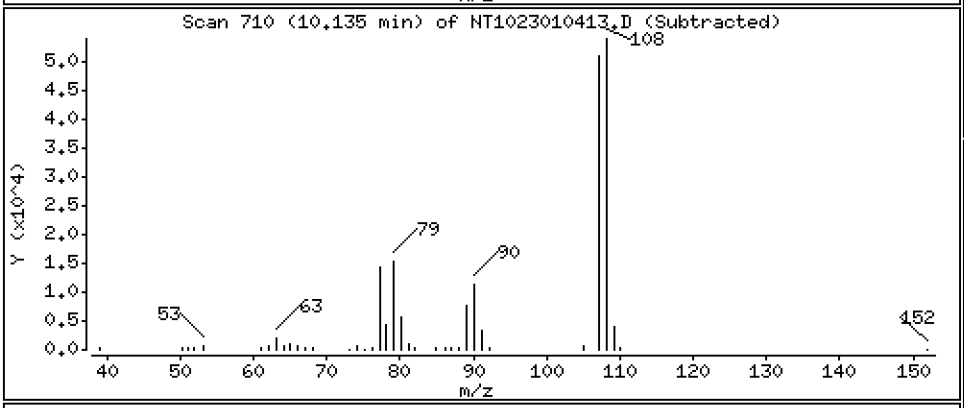
Column phase: ZB-5msi

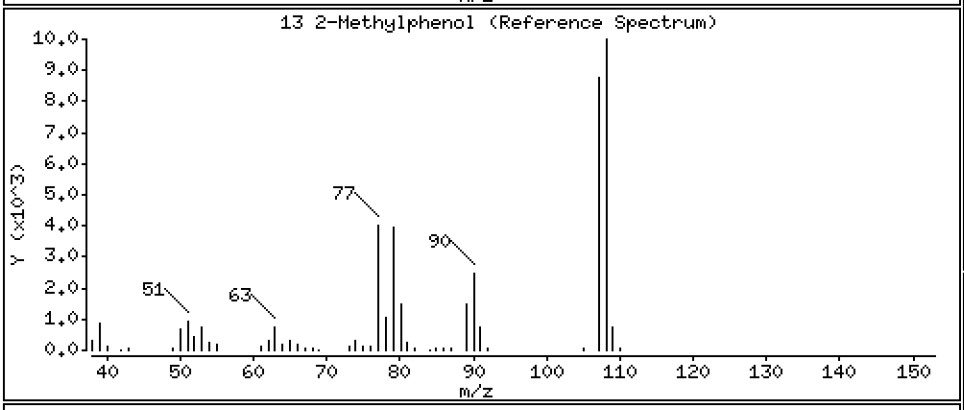
Column diameter: 0.25

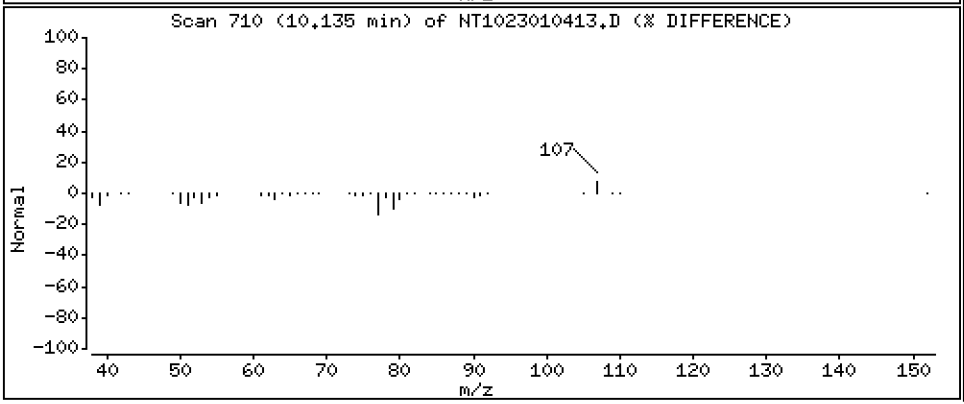
13 2-Methylphenol

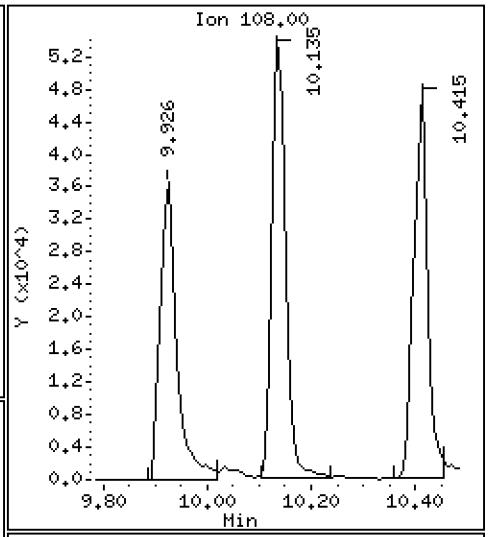
Concentration: 4.163 ug/mL

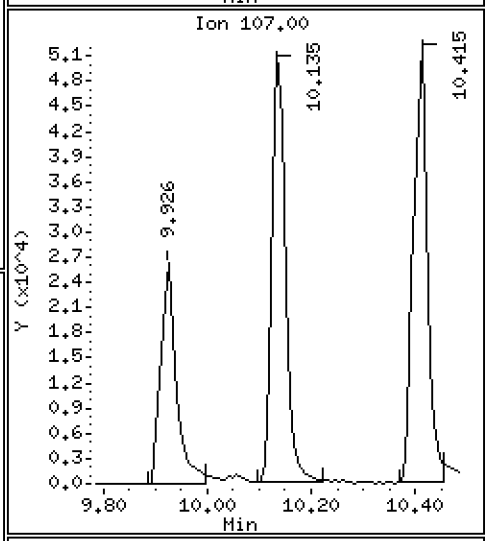


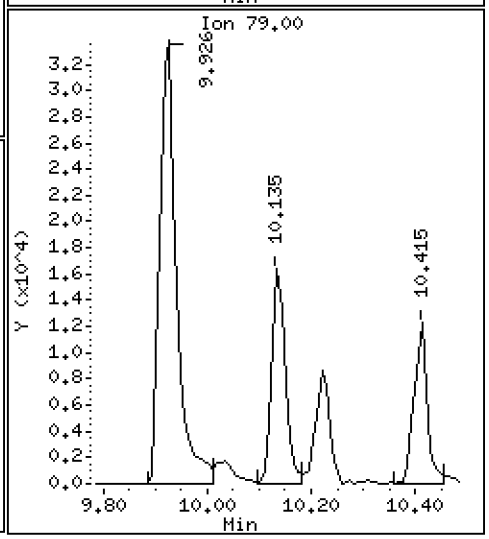












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

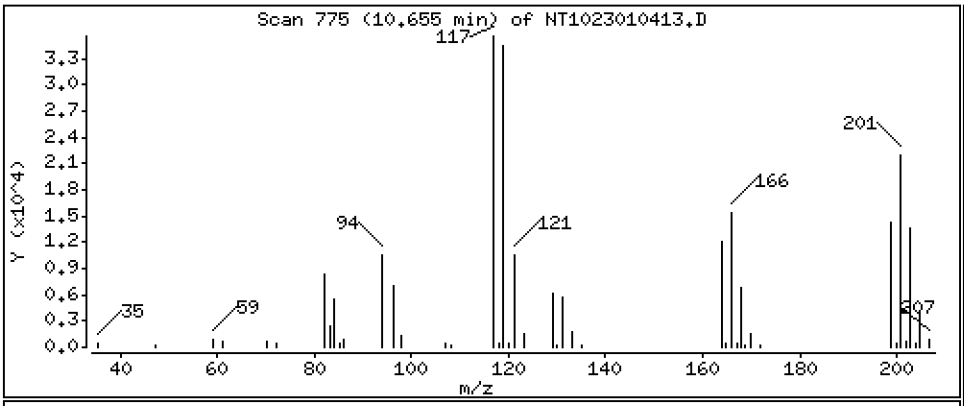
Operator: VTS

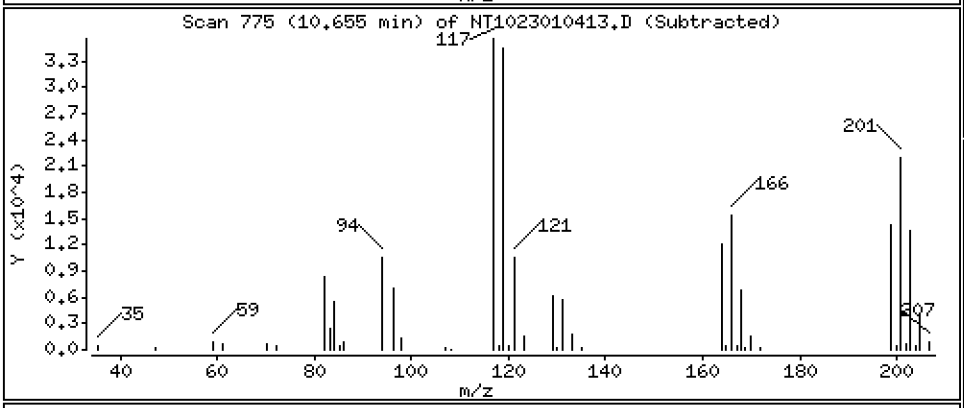
Column phase: ZB-5msi

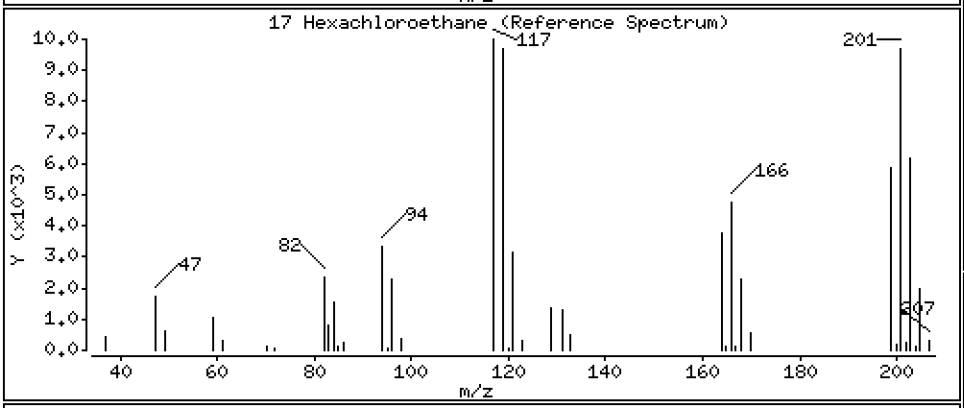
Column diameter: 0.25

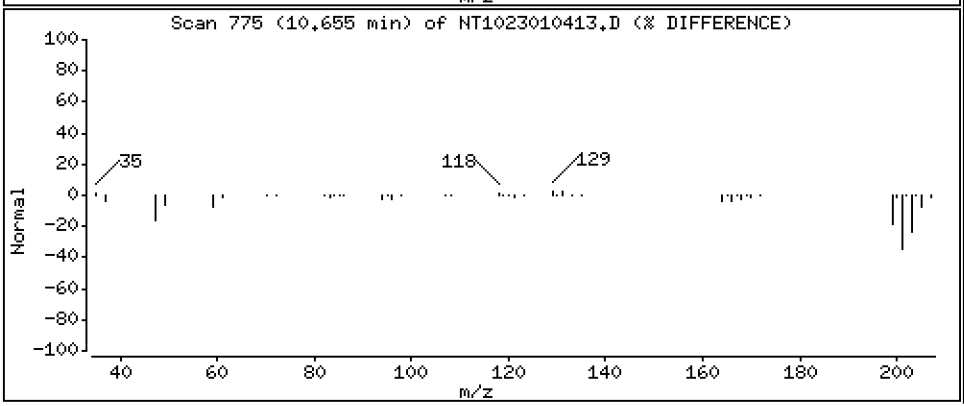
17 Hexachloroethane

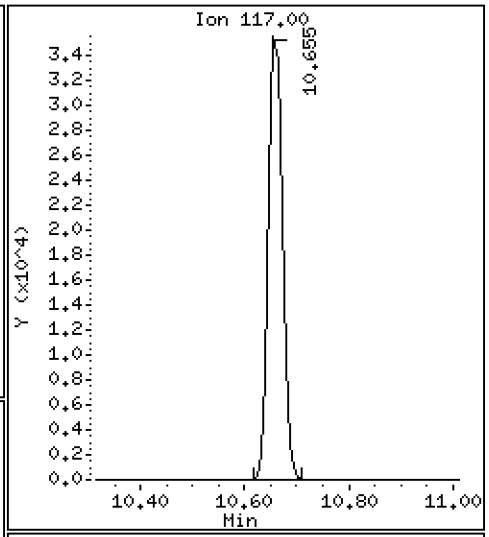
Concentration: 5.055 ug/mL

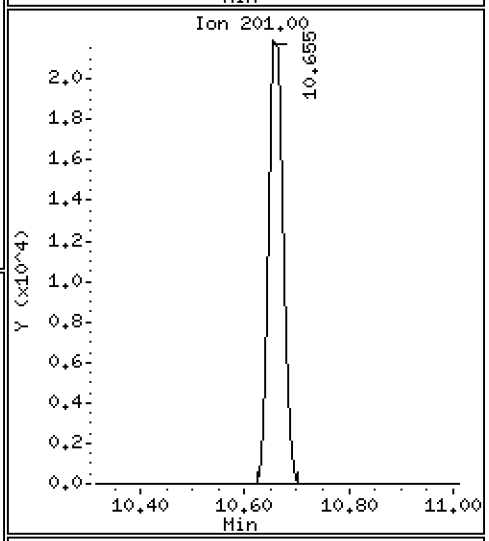


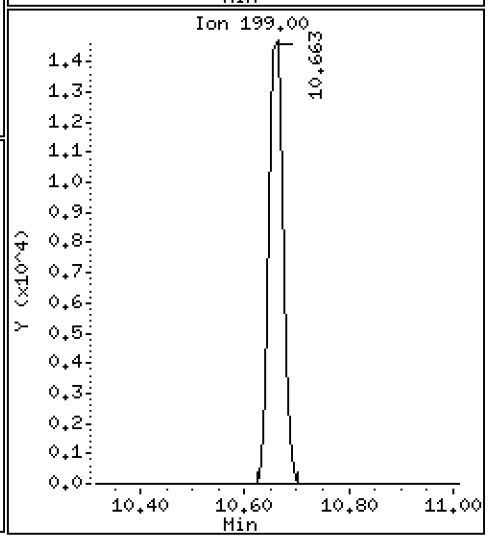












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

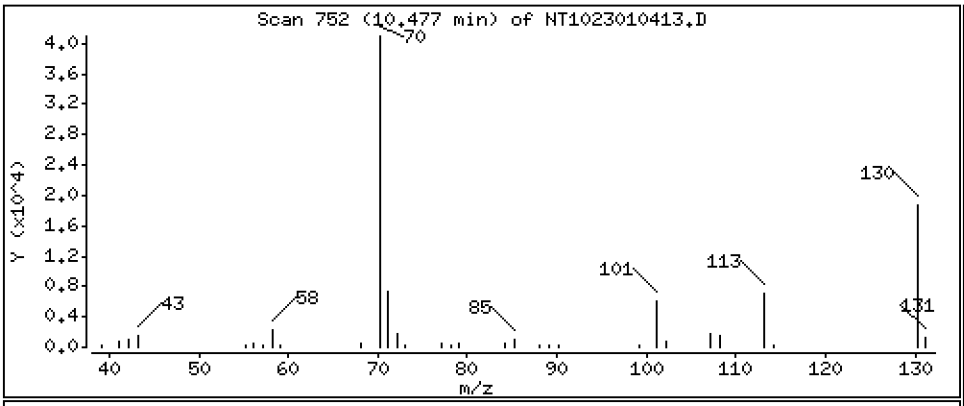
Operator: VTS

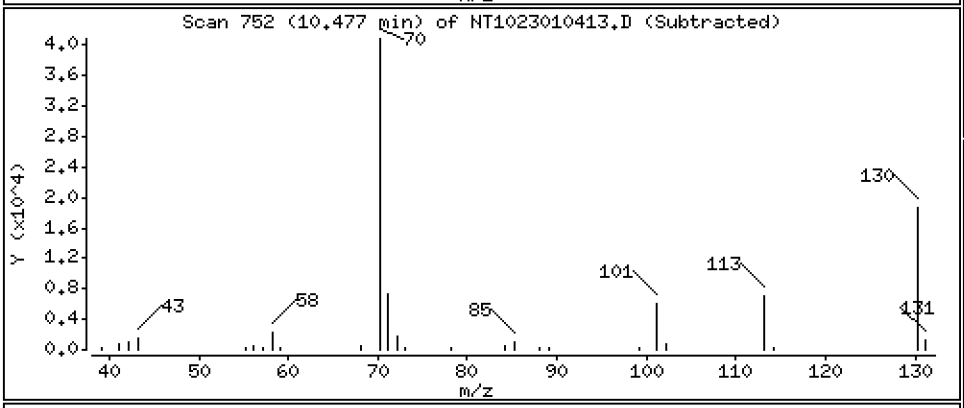
Column phase: ZB-5msi

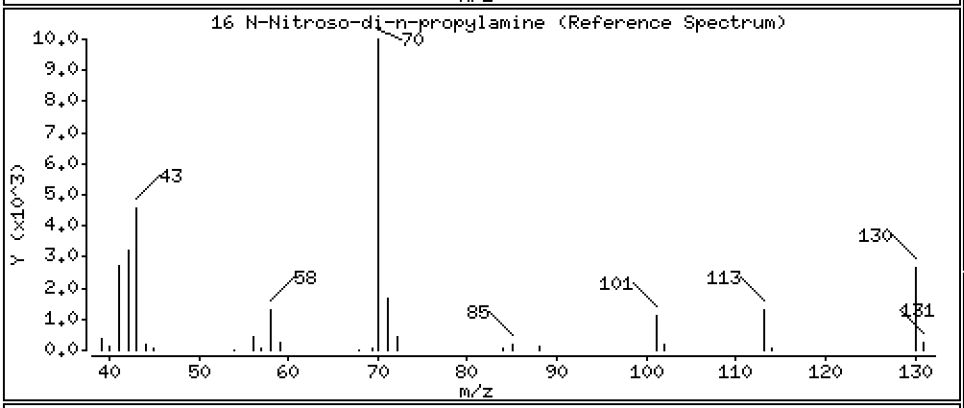
Column diameter: 0.25

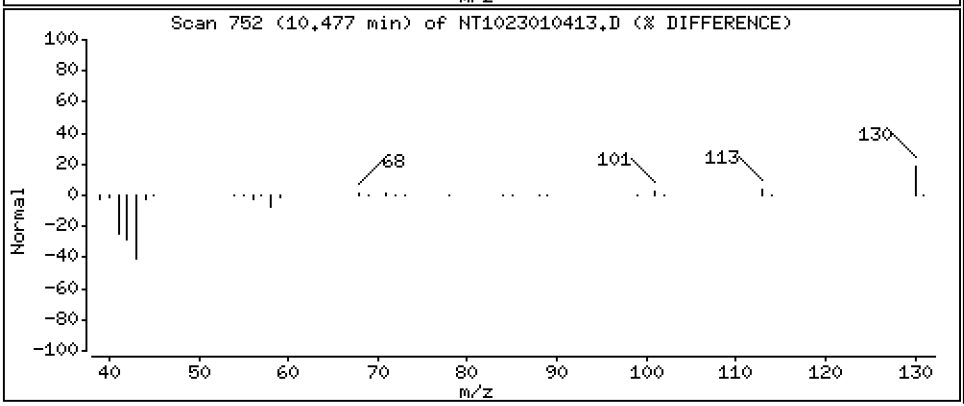
16 N-Nitroso-di-n-propylamine

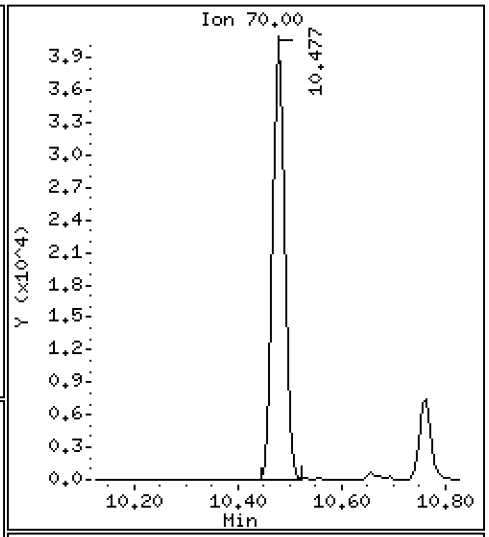
Concentration: 5.181 ug/mL

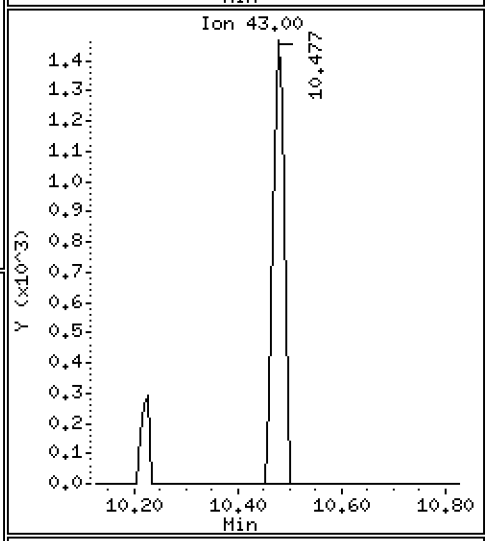


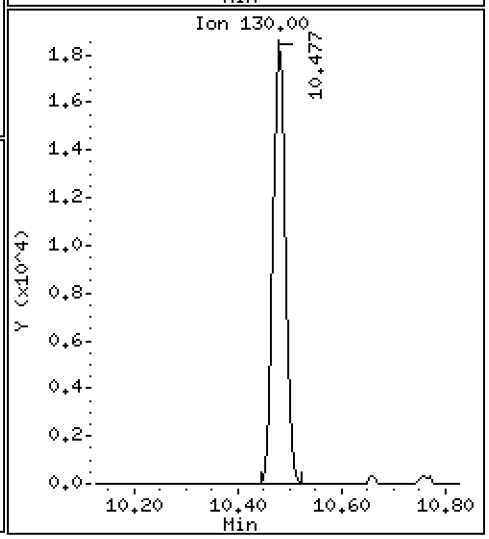












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

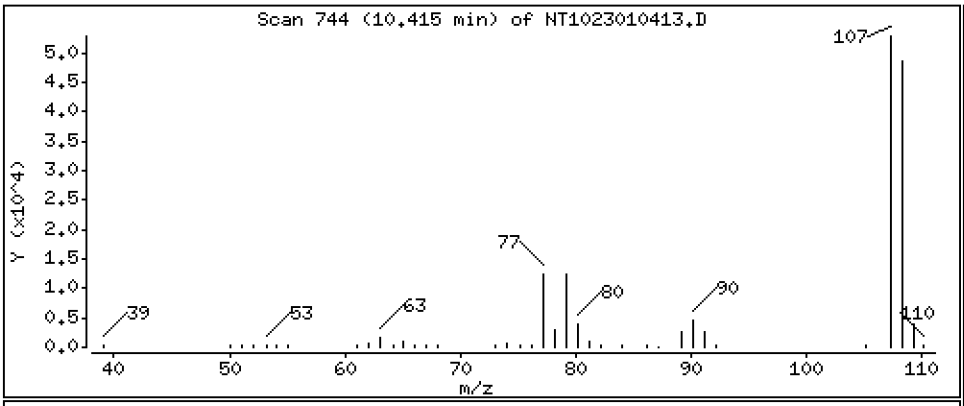
Operator: VTS

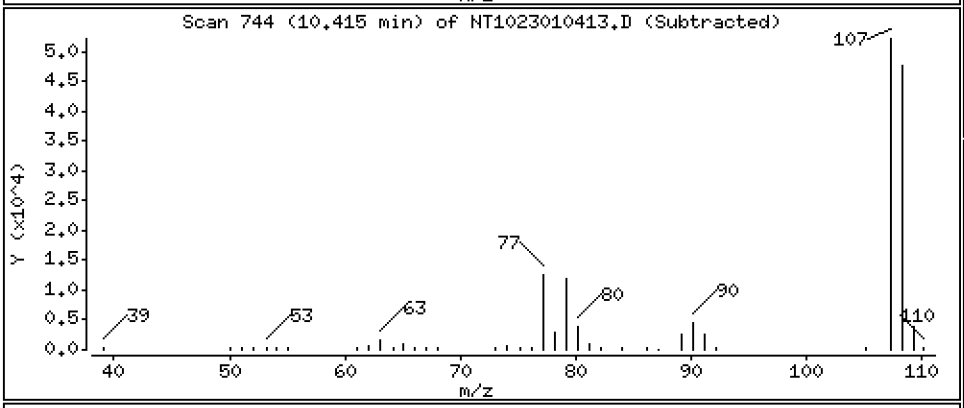
Column phase: ZB-5msi

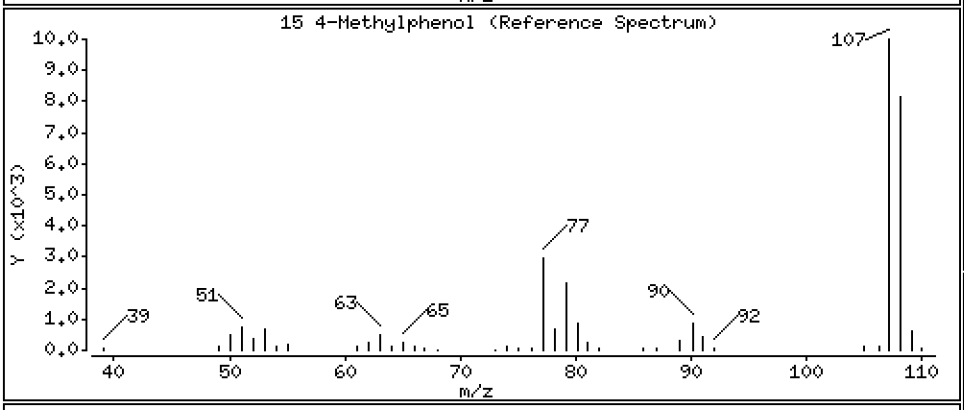
Column diameter: 0.25

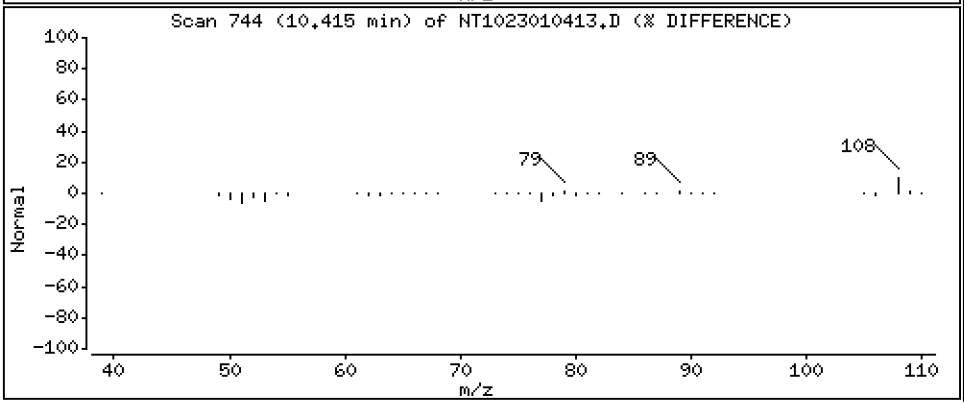
15 4-Methylphenol

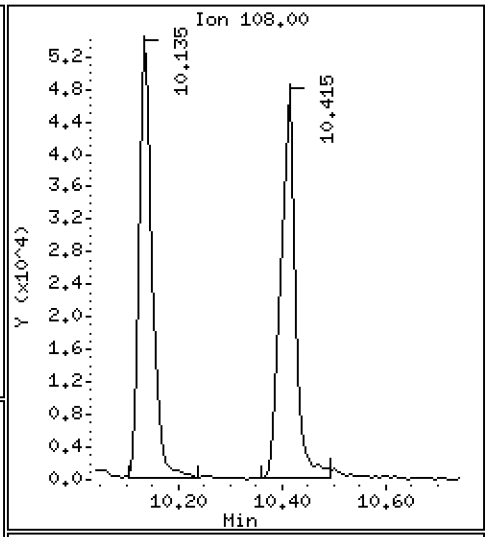
Concentration: 4.573 ug/mL

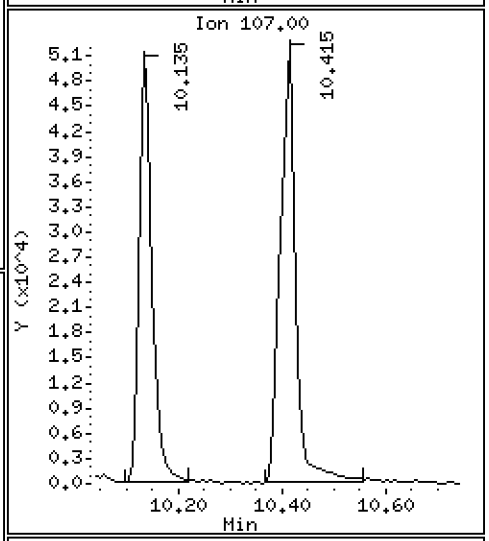


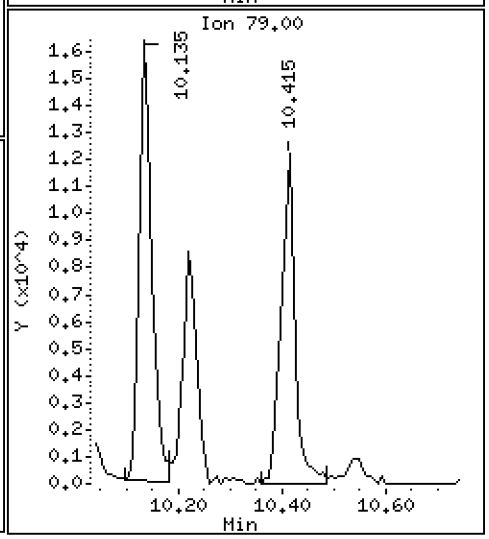












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

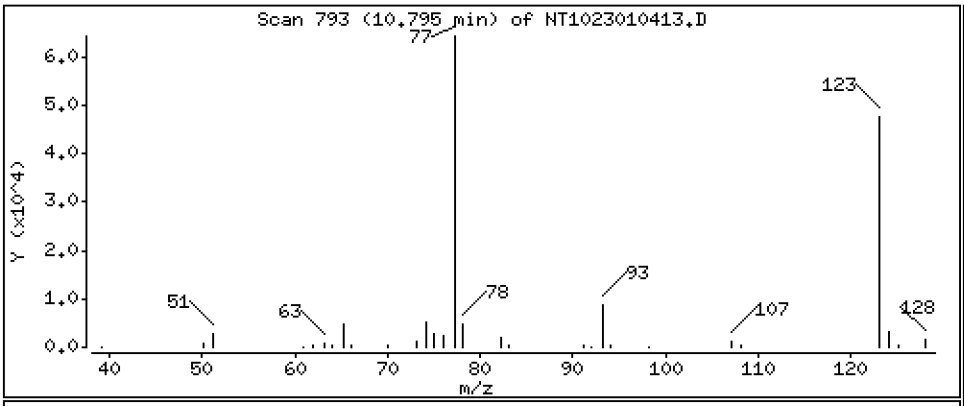
Operator: VTS

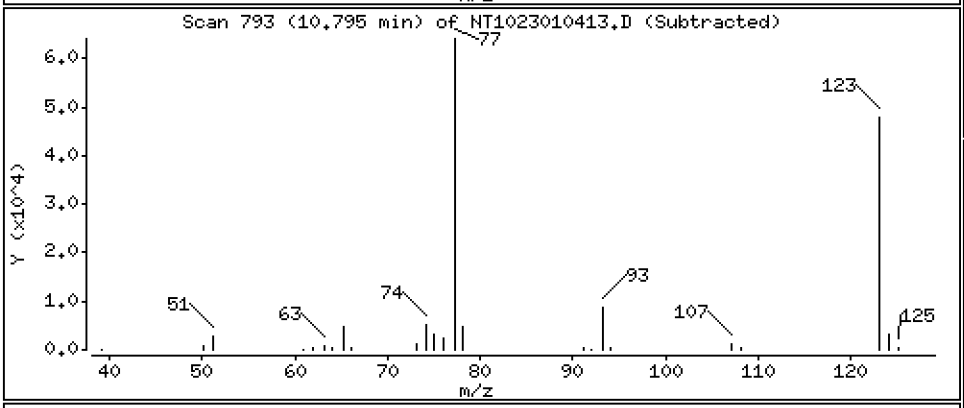
Column phase: ZB-5msi

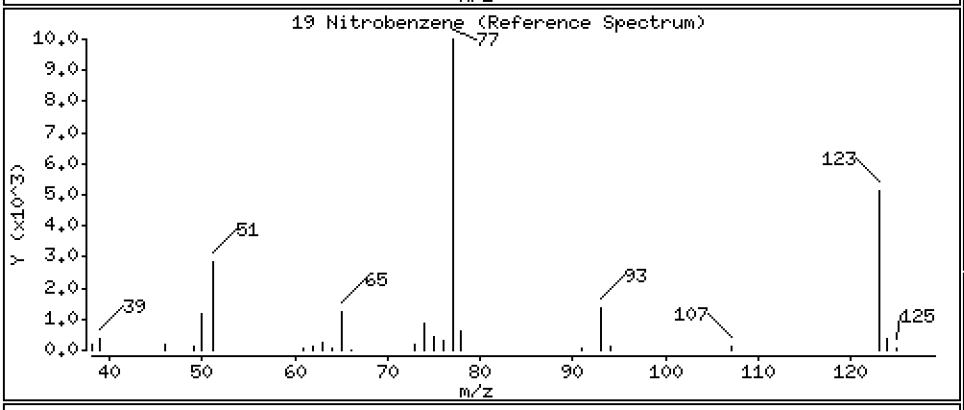
Column diameter: 0.25

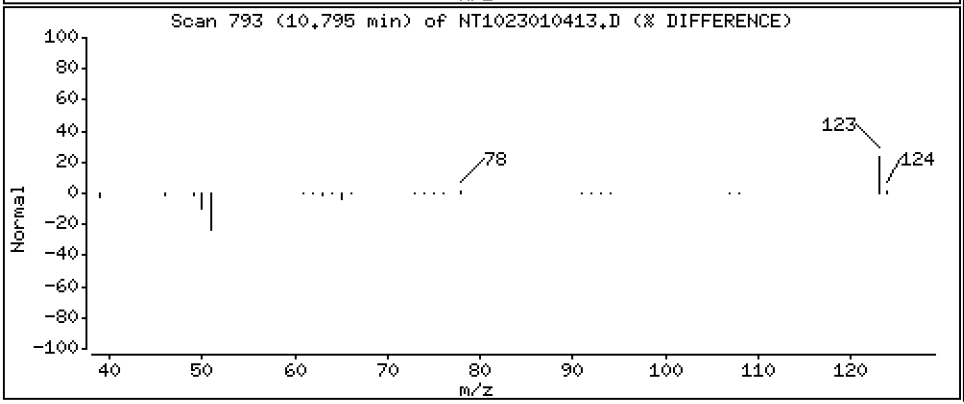
19 Nitrobenzene

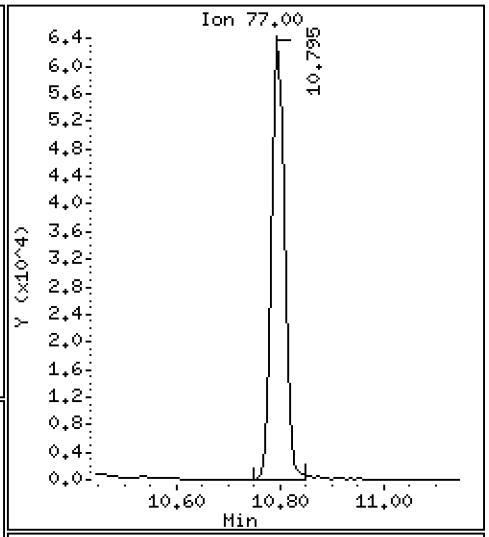
Concentration: 4.932 ug/mL

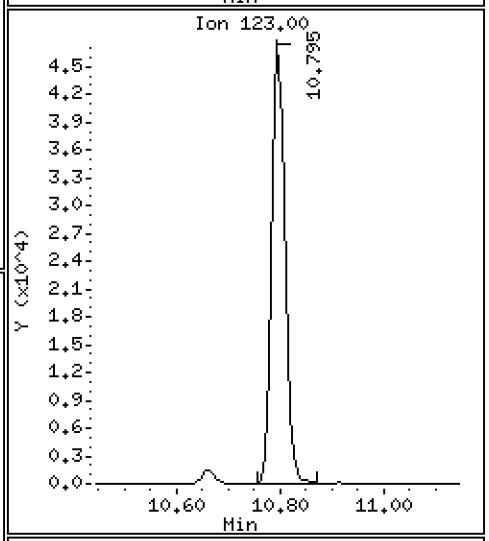


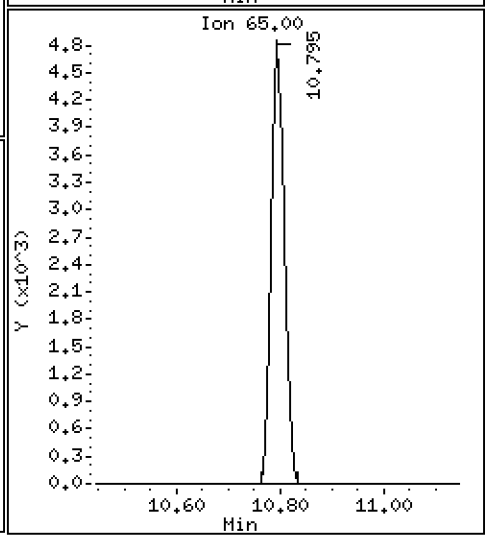












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

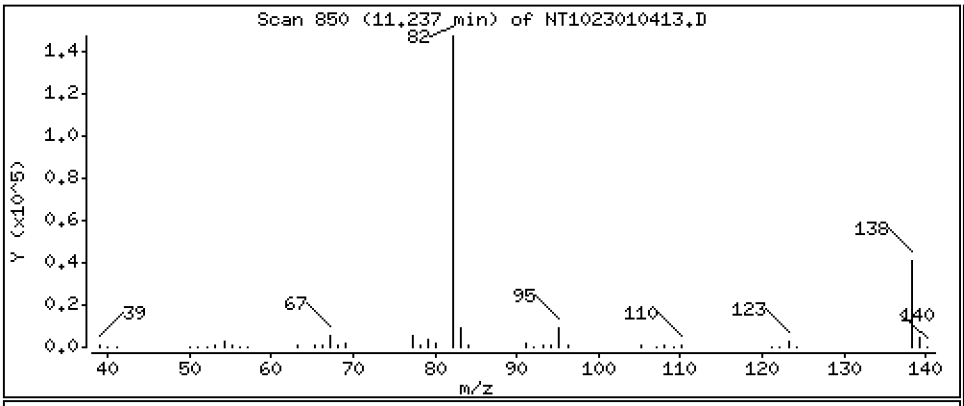
Operator: VTS

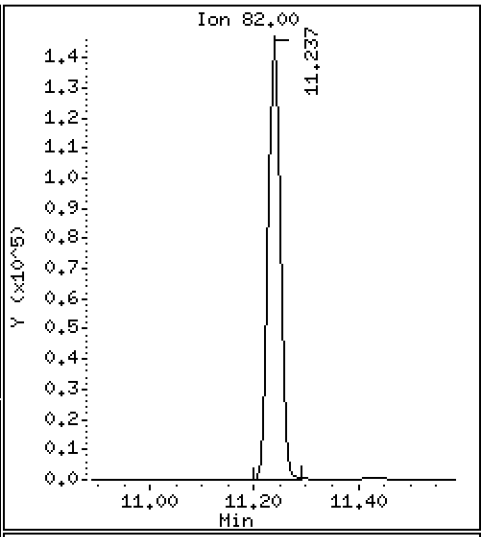
Column phase: ZB-5msi

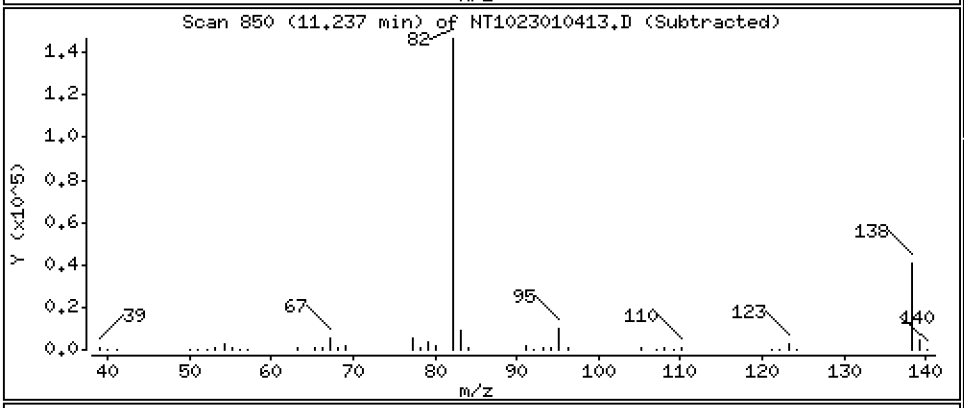
Column diameter: 0.25

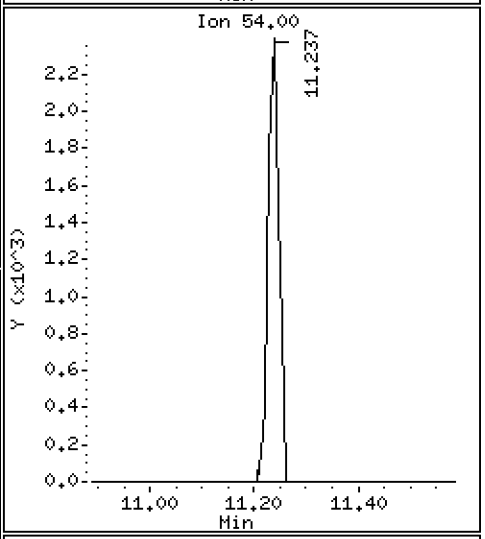
20 Isophorone

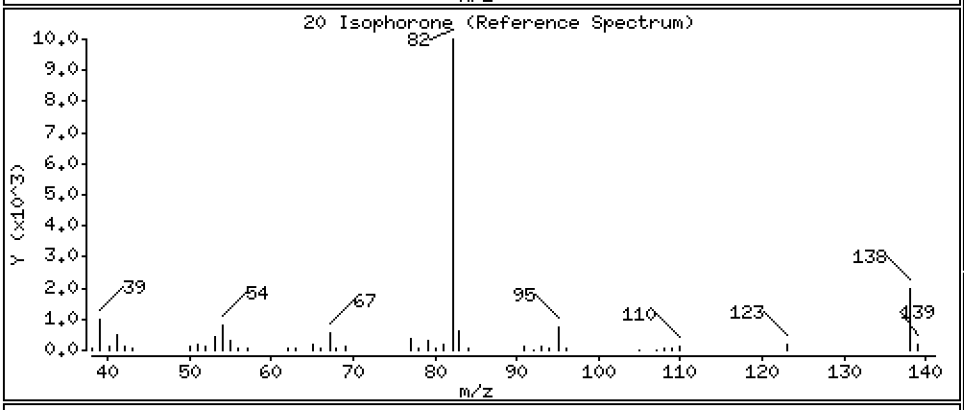
Concentration: 6.640 ug/mL

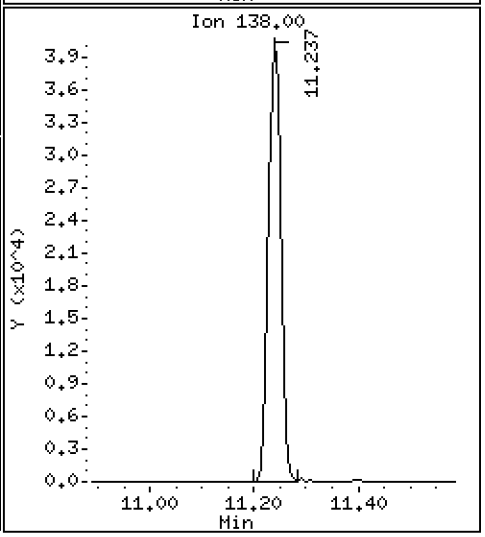


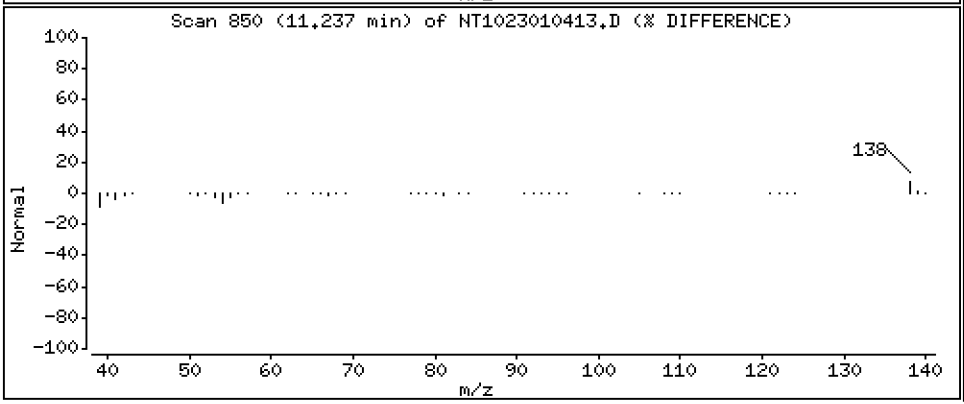












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

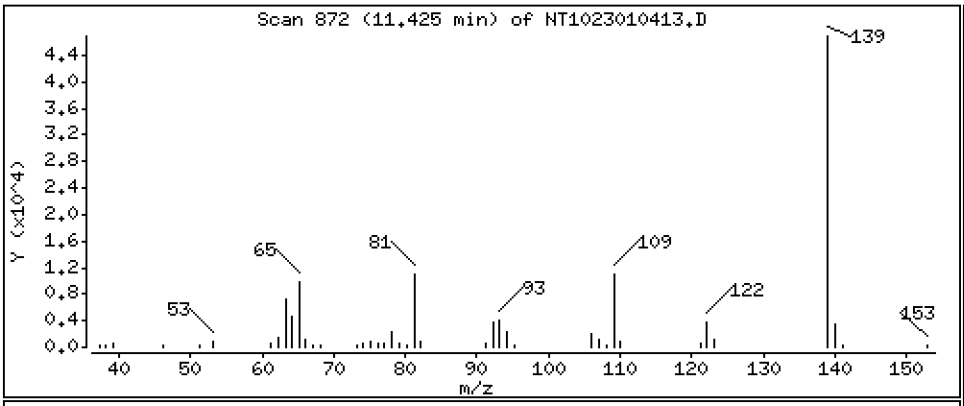
Operator: VTS

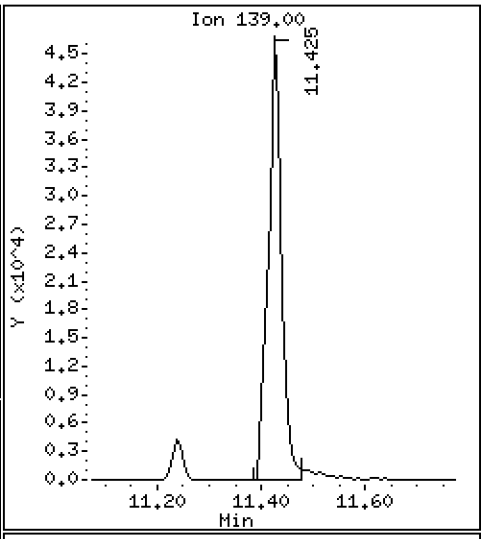
Column phase: ZB-5msi

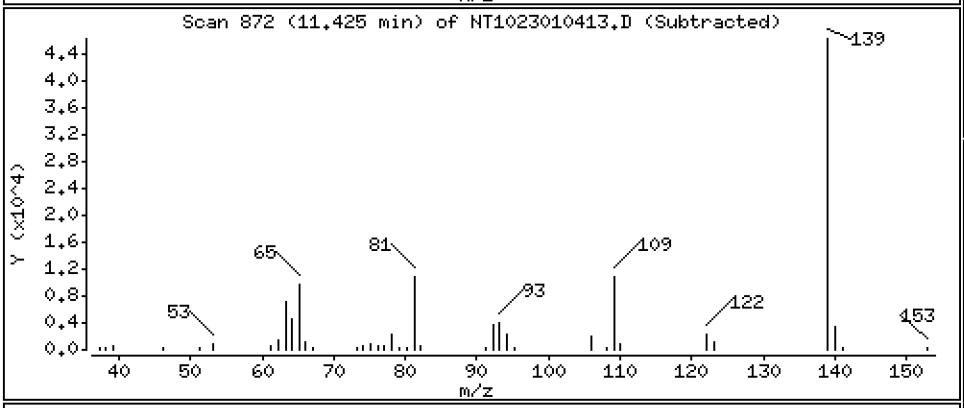
Column diameter: 0.25

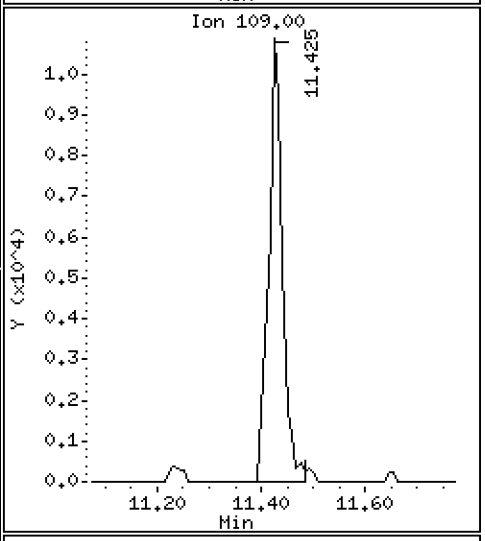
21 2-Nitrophenol

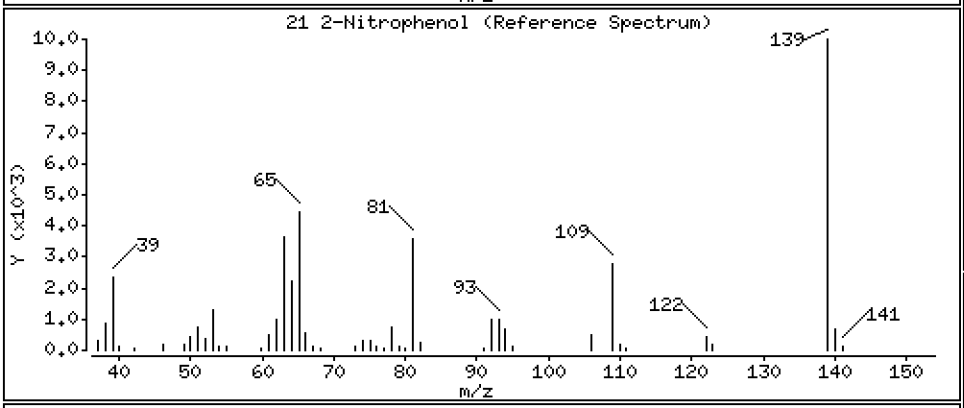
Concentration: 4.479 ug/mL

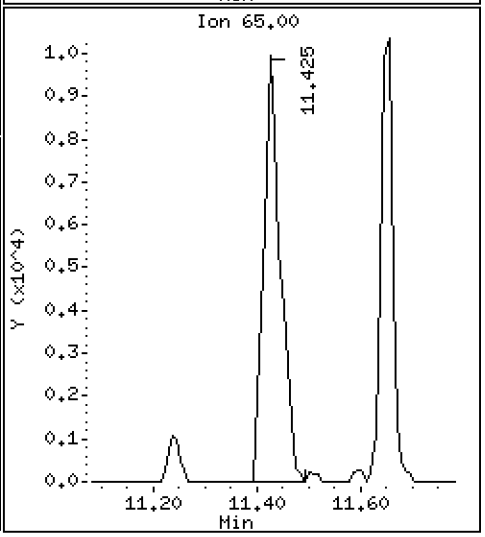


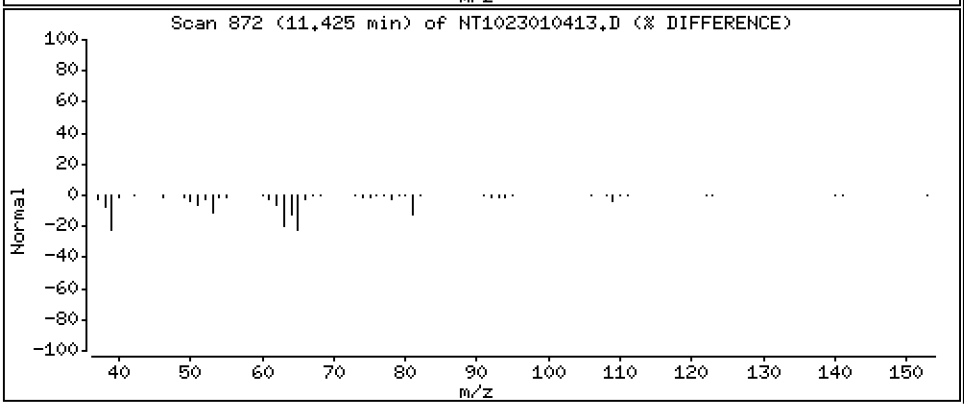












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

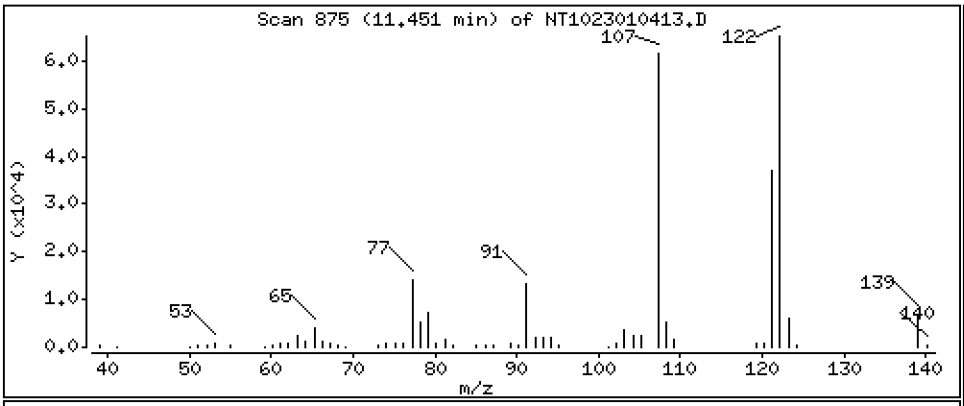
Operator: VTS

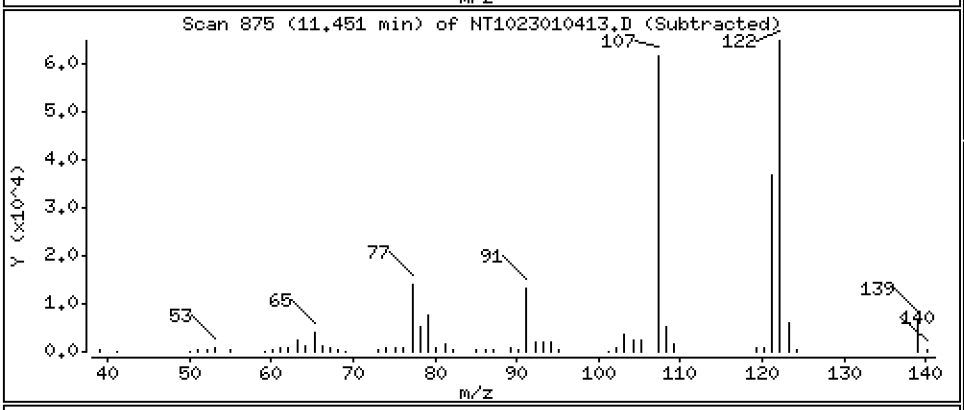
Column phase: ZB-5msi

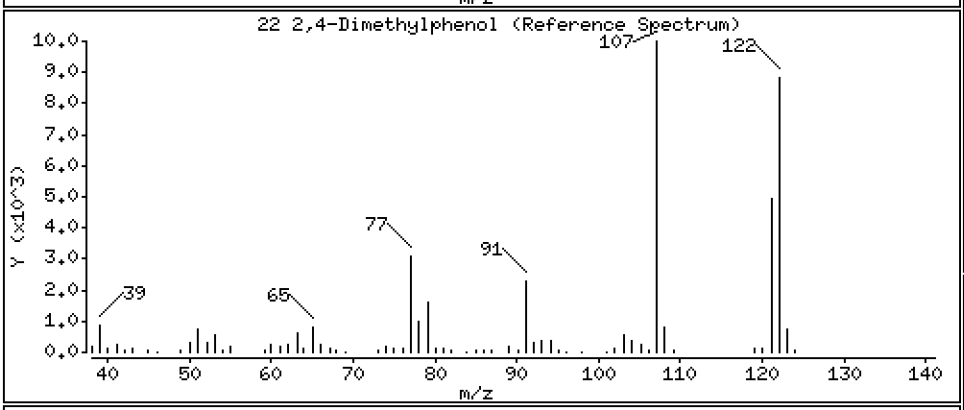
Column diameter: 0.25

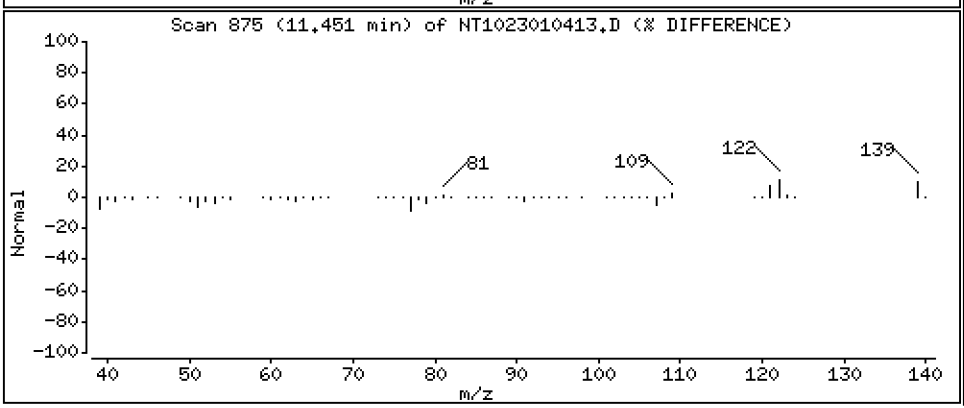
22 2,4-Dimethylphenol

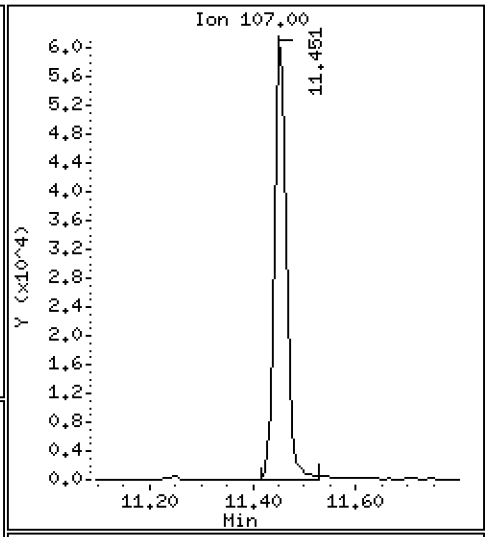
Concentration: 3.770 ug/mL

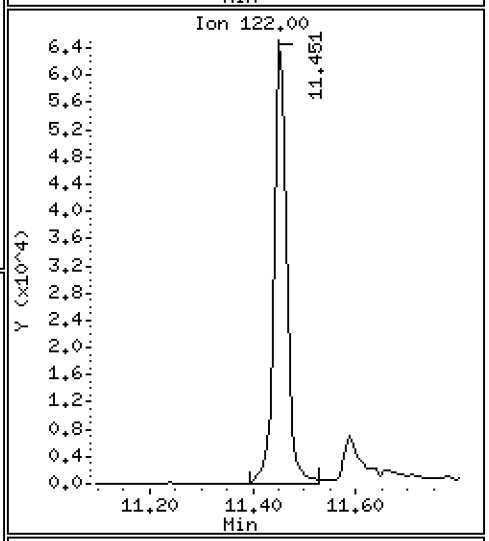


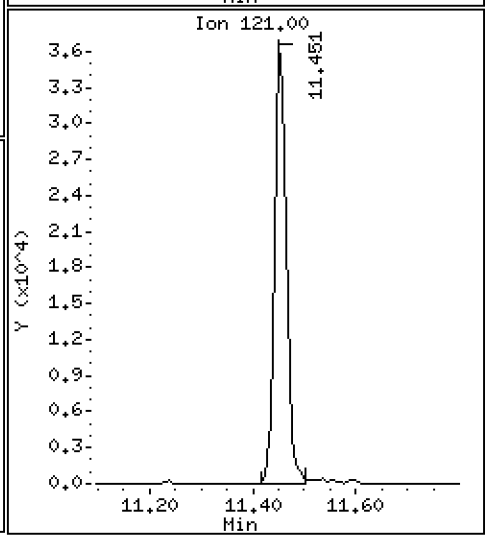












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

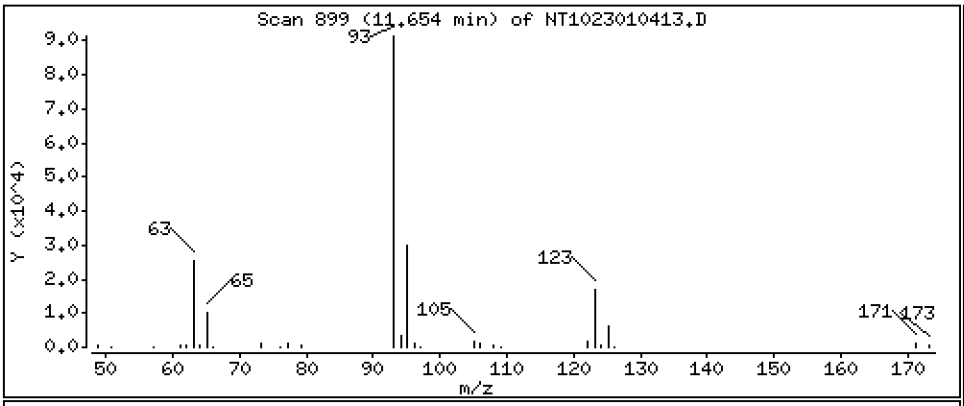
Operator: VTS

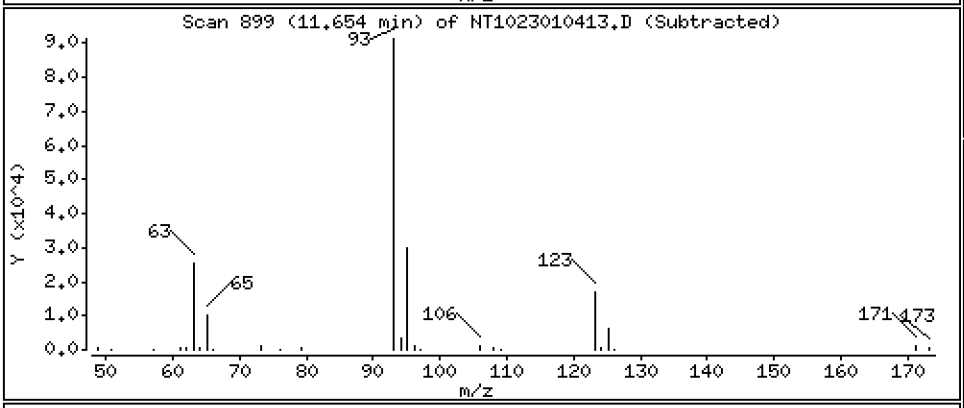
Column phase: ZB-5msi

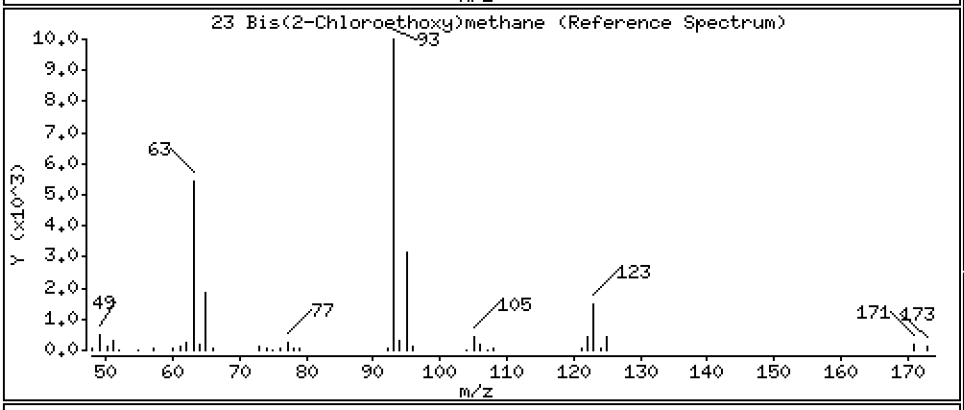
Column diameter: 0.25

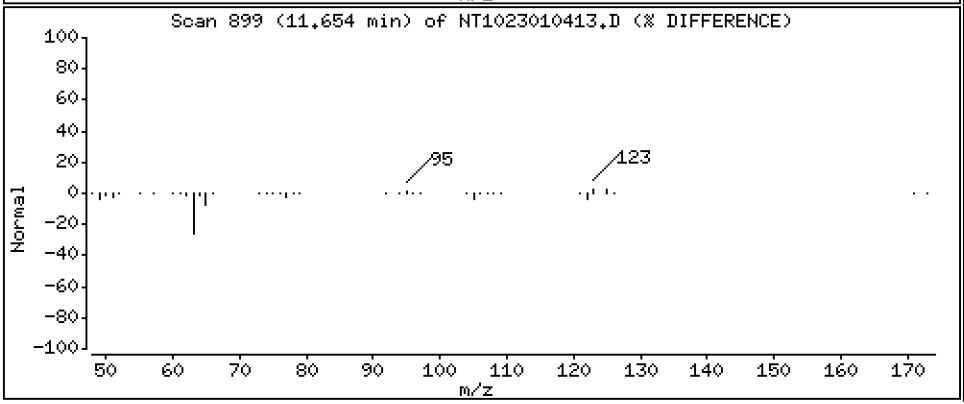
23 Bis(2-Chloroethoxy)methane

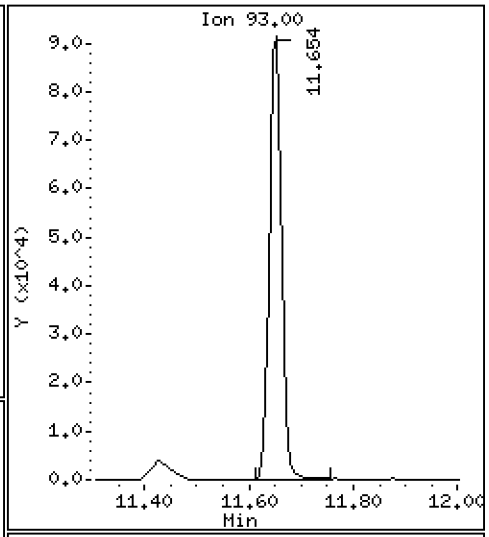
Concentration: 6.332 ug/mL

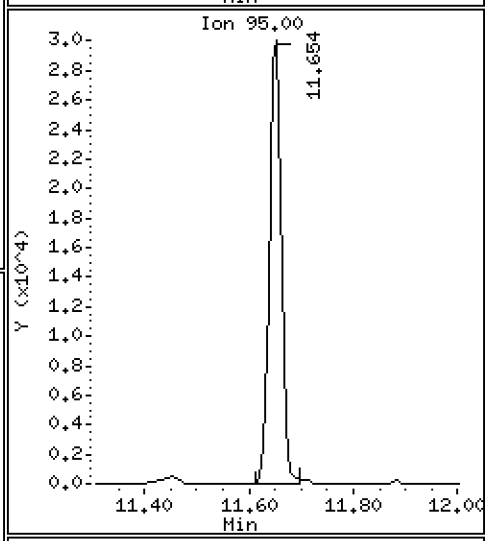


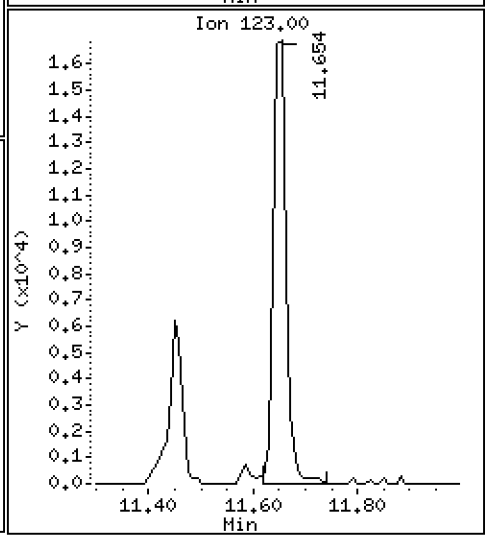












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

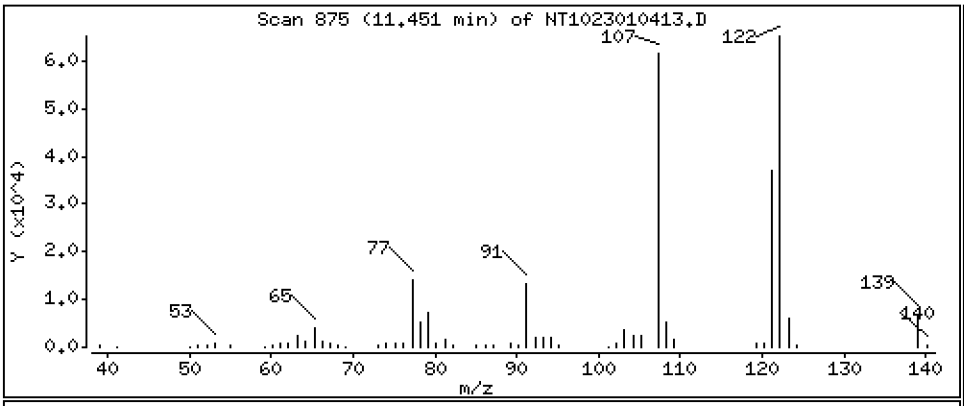
Operator: VTS

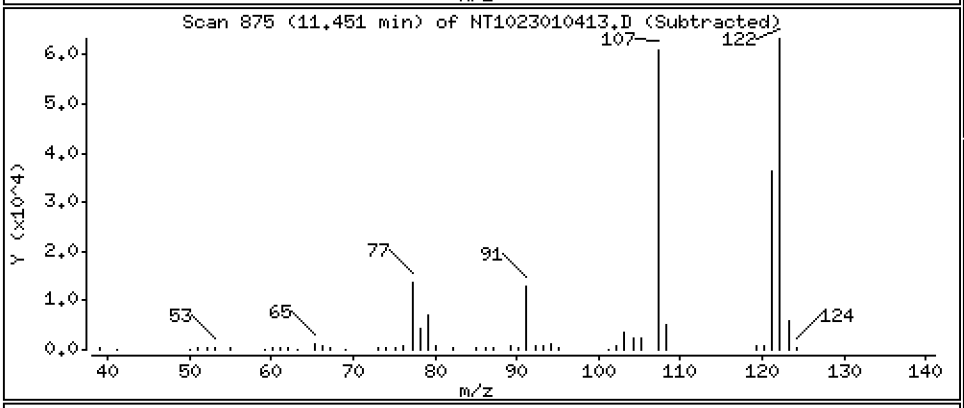
Column phase: ZB-5msi

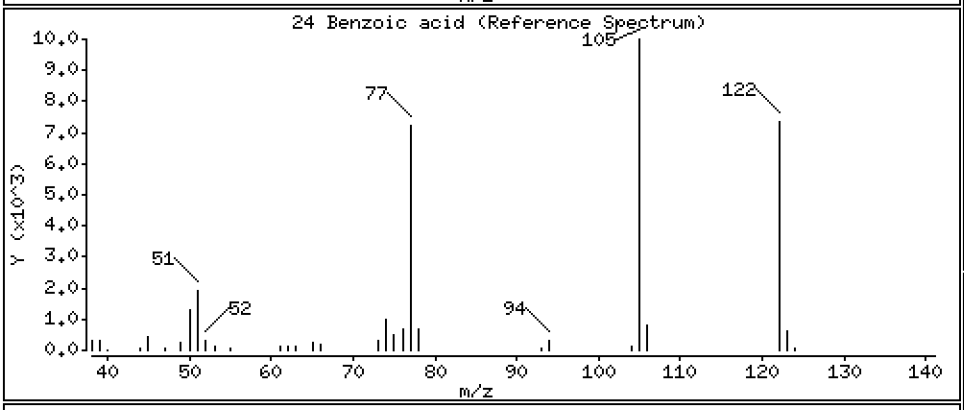
Column diameter: 0.25

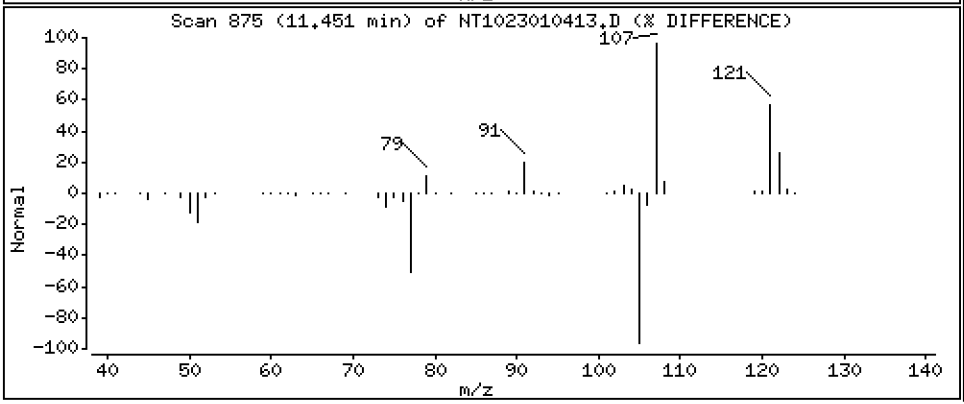
24 Benzoic acid

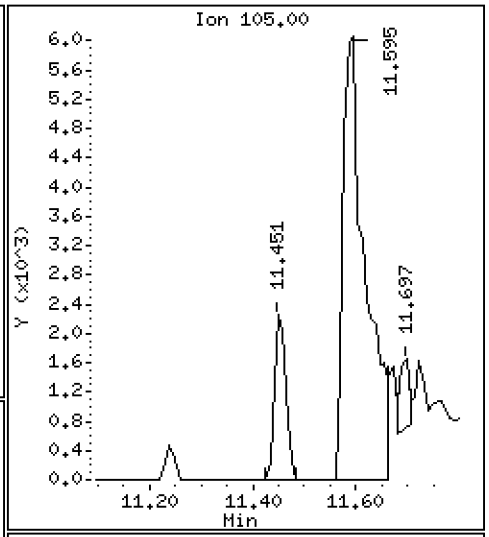
Concentration: 0.3166 ug/mL

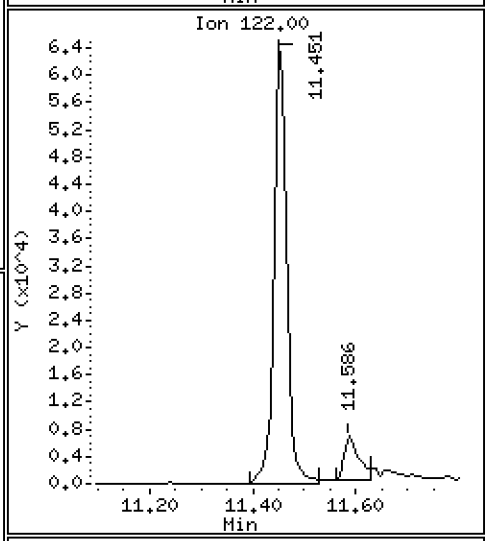


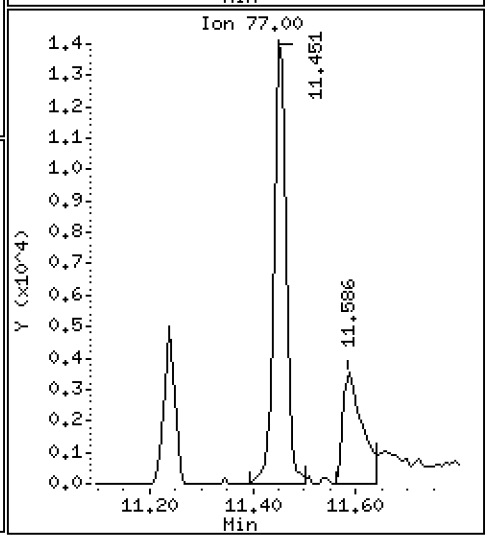












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

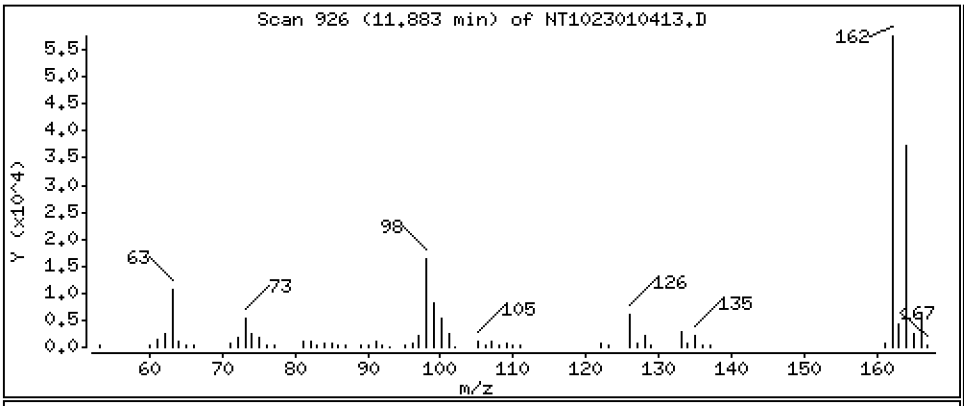
Operator: VTS

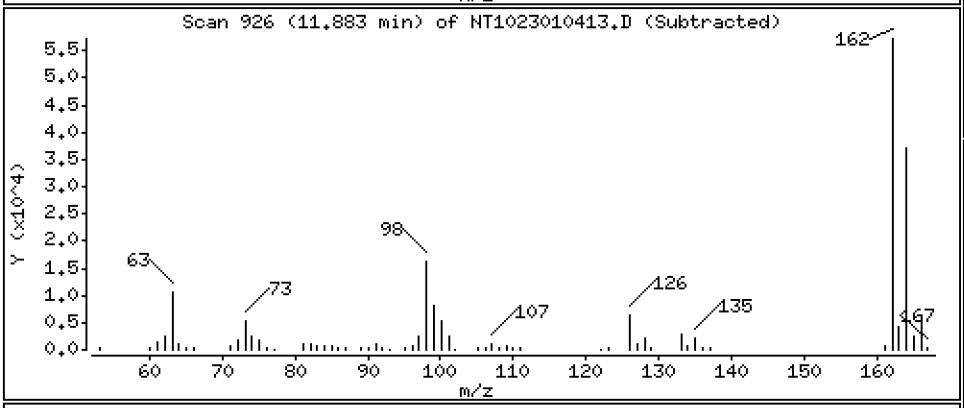
Column phase: ZB-5msi

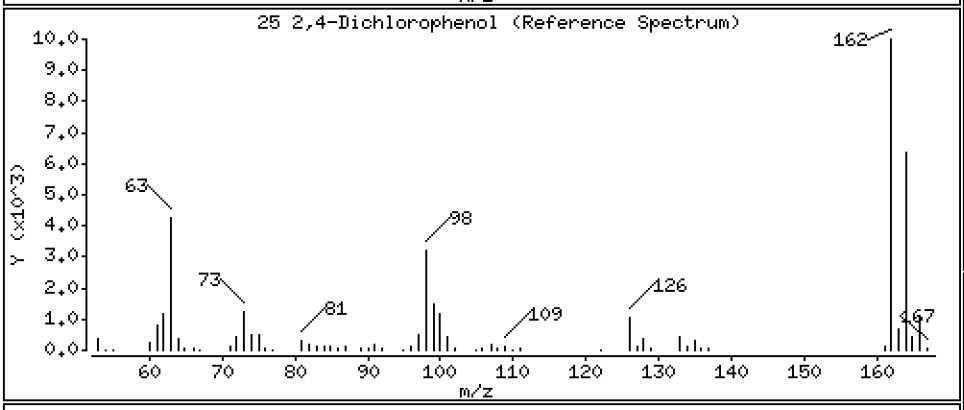
Column diameter: 0.25

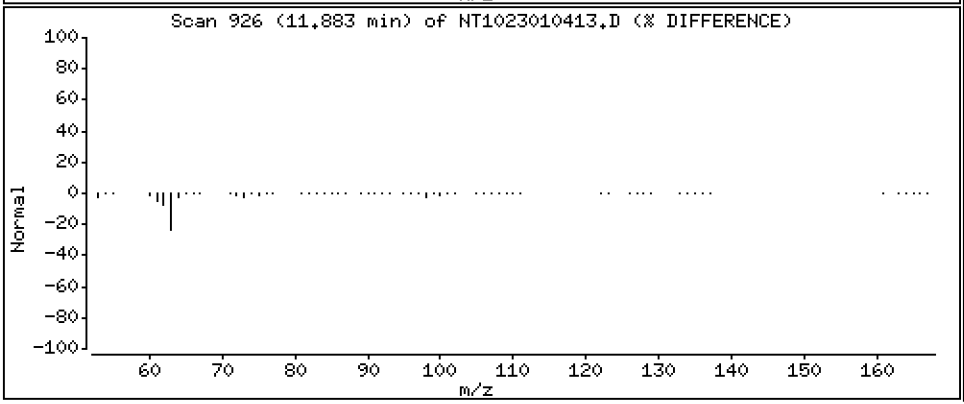
25 2,4-Dichlorophenol

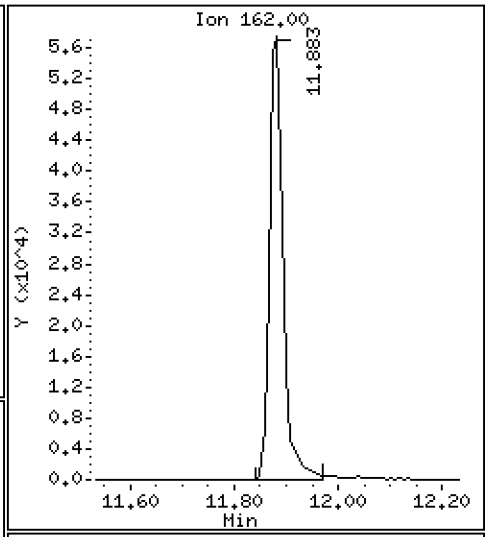
Concentration: 5.098 ug/mL

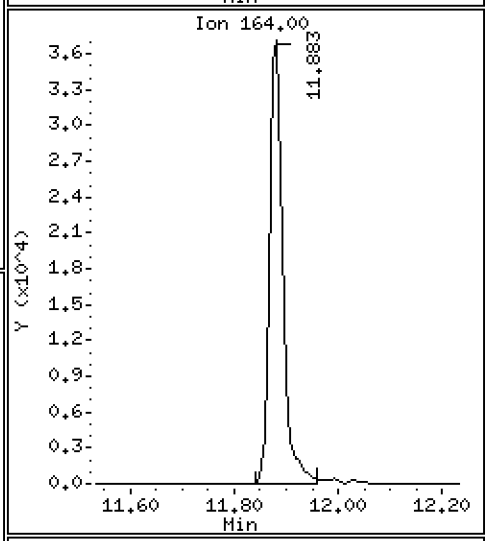


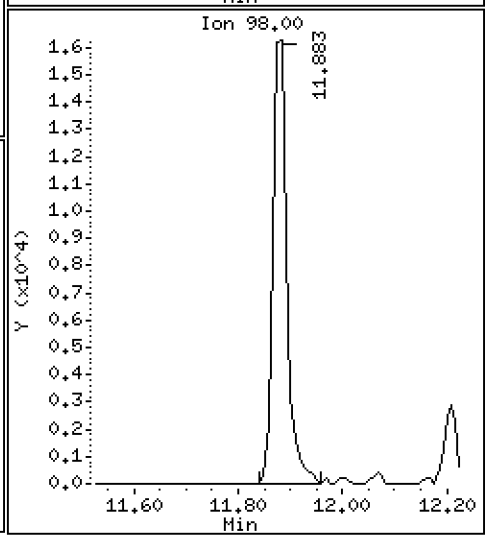












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

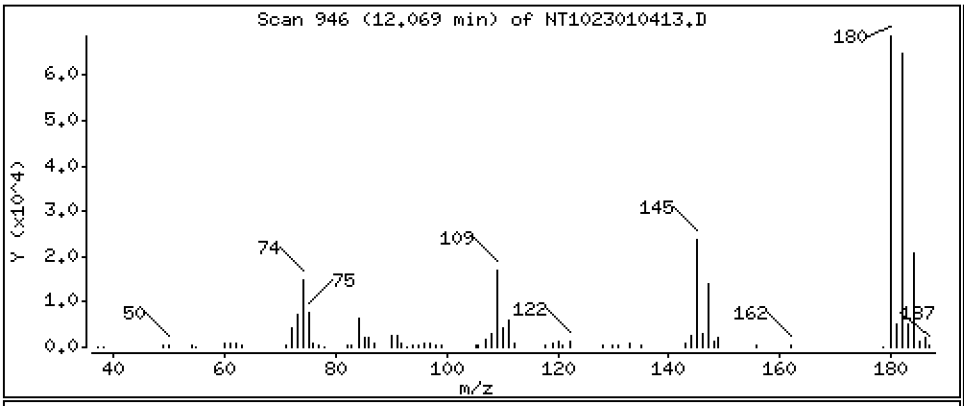
Operator: VTS

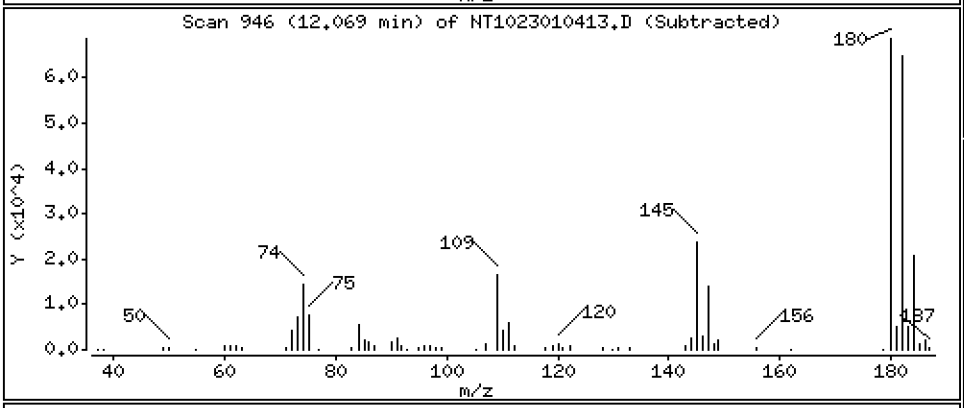
Column phase: ZB-5msi

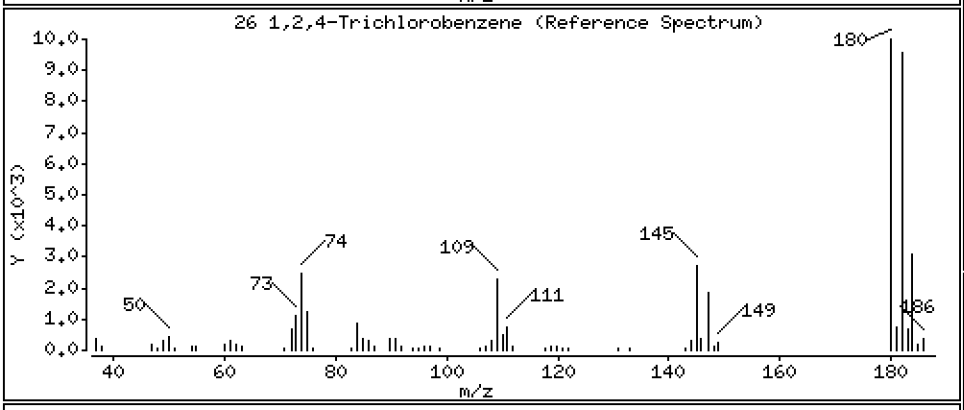
Column diameter: 0.25

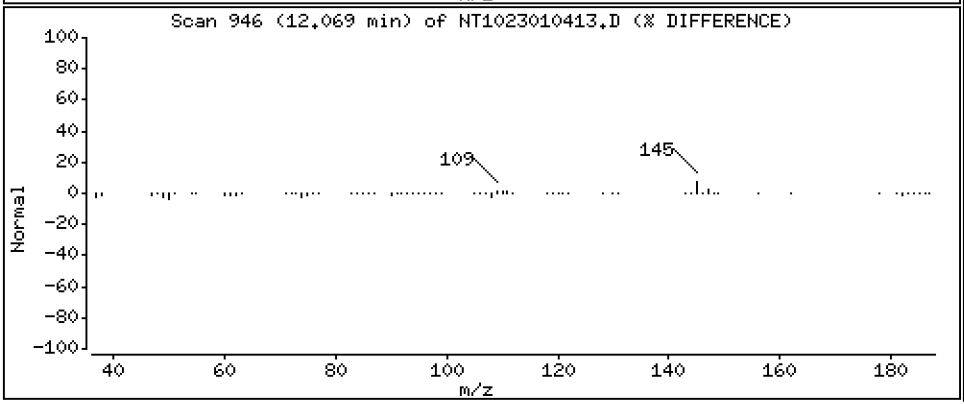
26 1,2,4-Trichlorobenzene

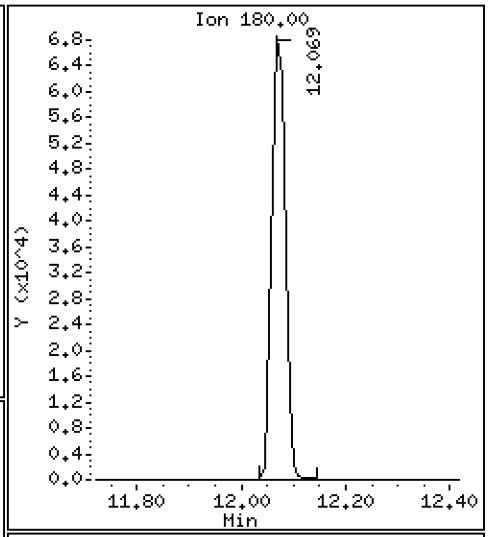
Concentration: 4.520 ug/mL

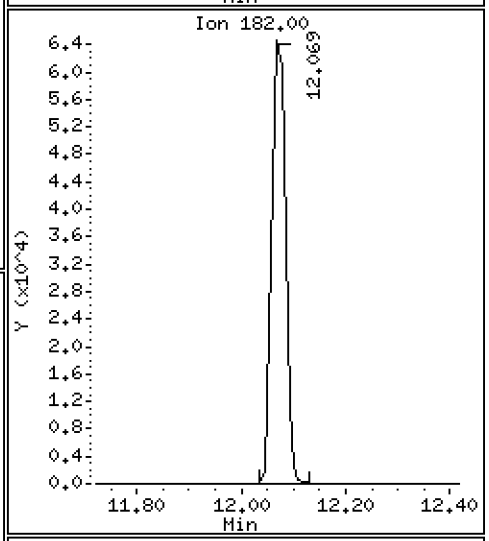


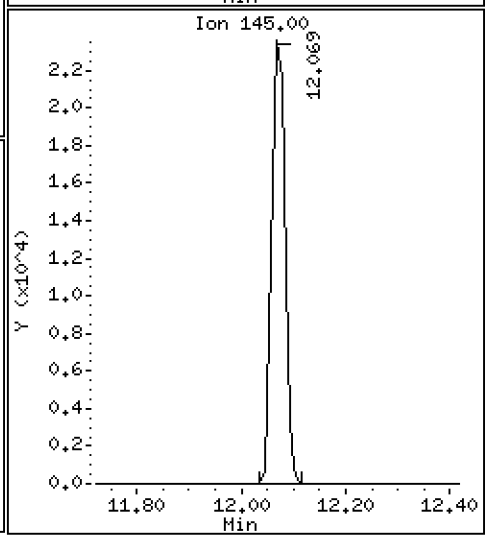












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

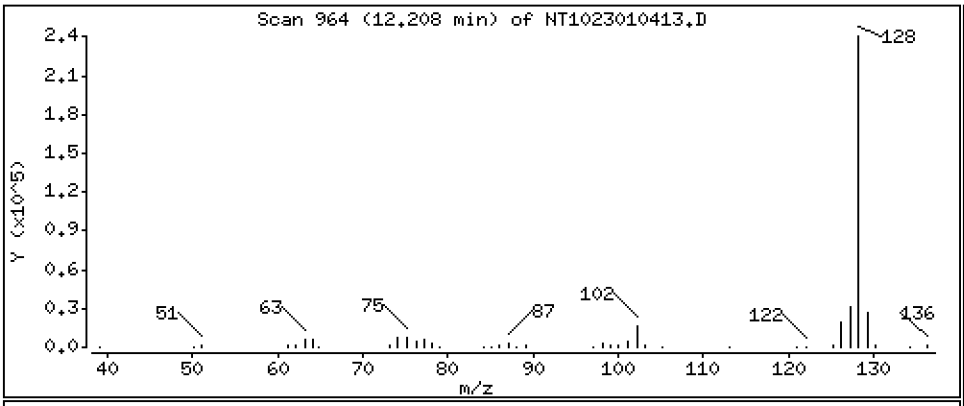
Operator: VTS

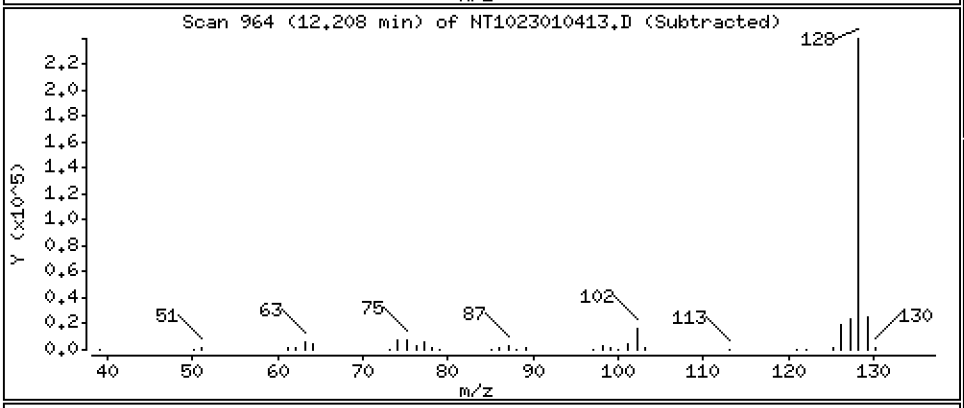
Column phase: ZB-5msi

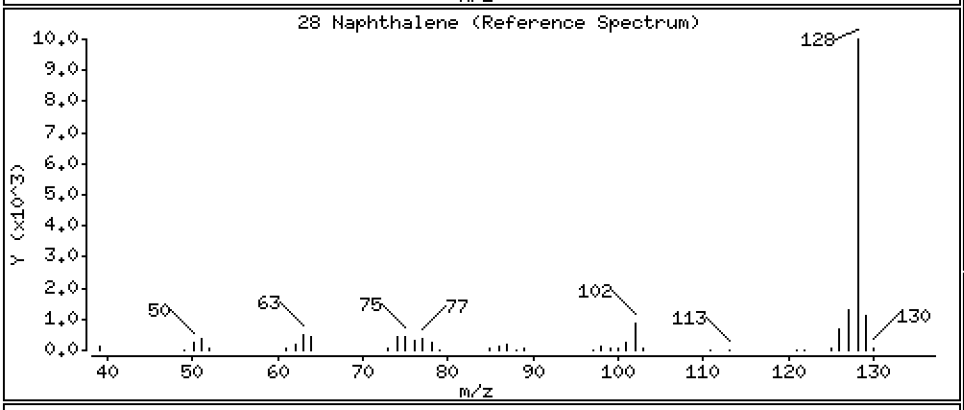
Column diameter: 0.25

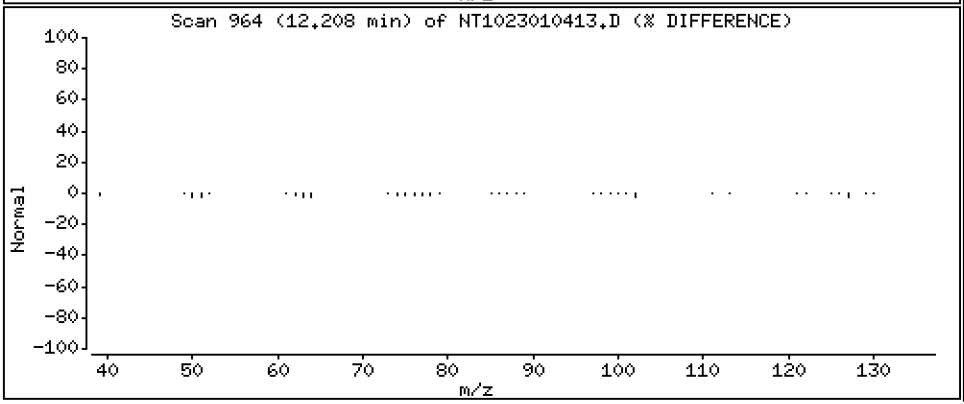
28 Naphthalene

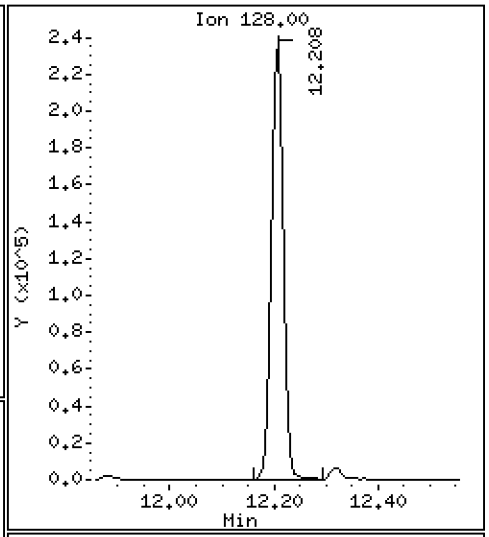
Concentration: 5.156 ug/mL

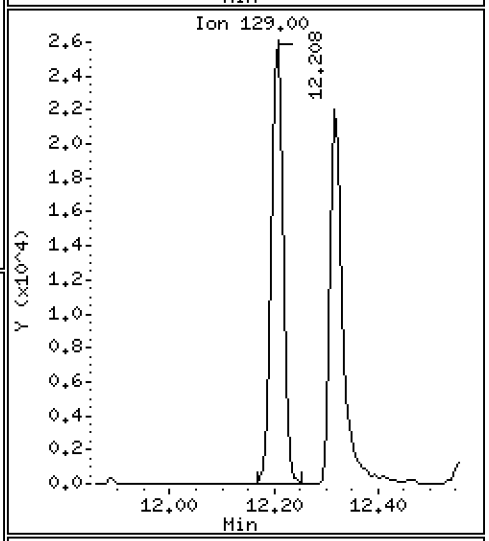


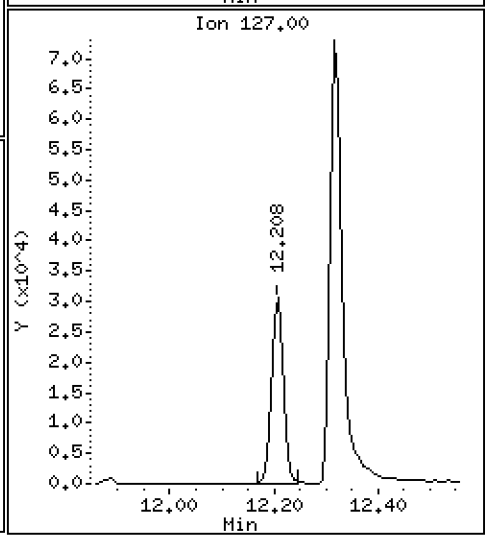












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

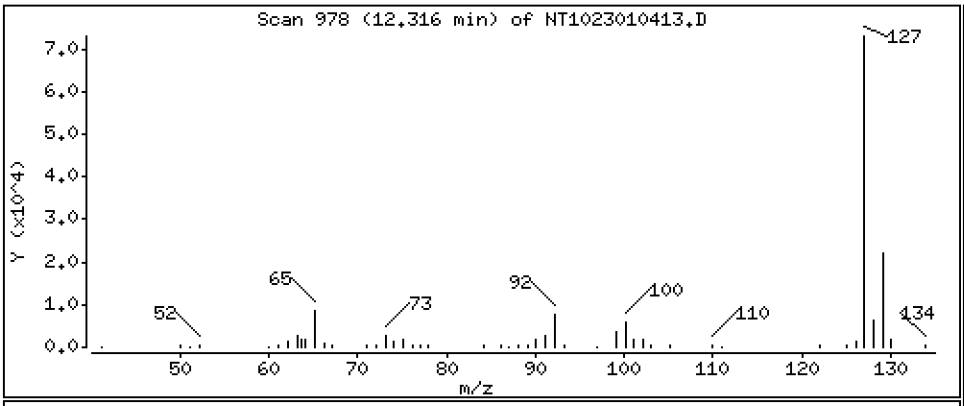
Operator: VTS

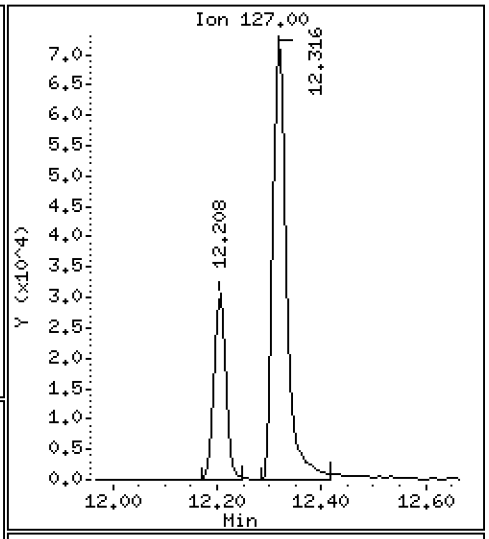
Column phase: ZB-5msi

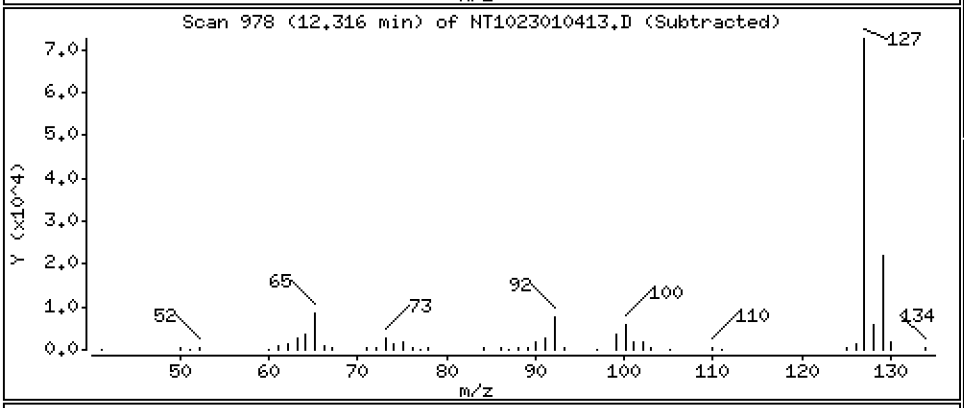
Column diameter: 0.25

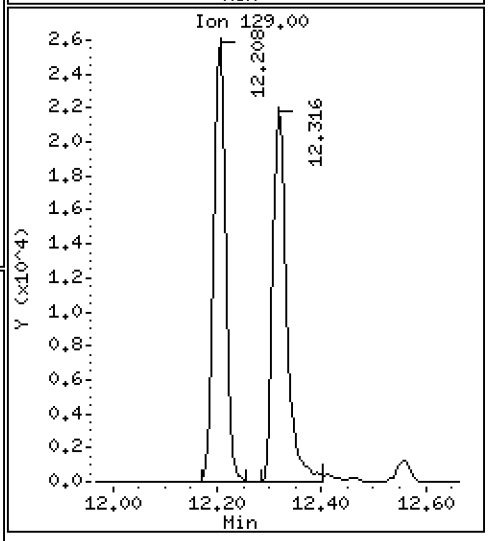
29 4-Chloroaniline

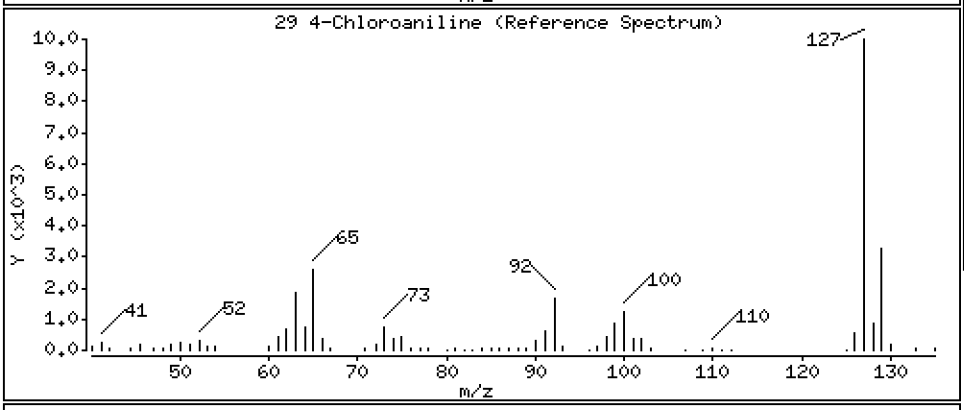
Concentration: 4.197 ug/mL

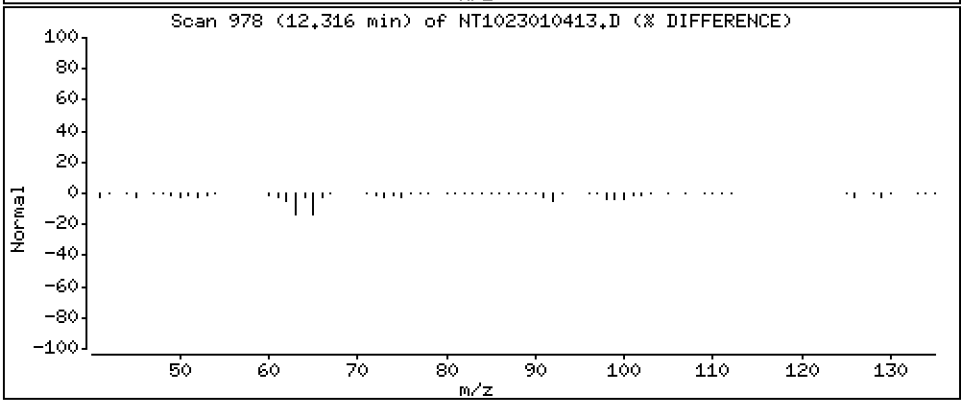












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

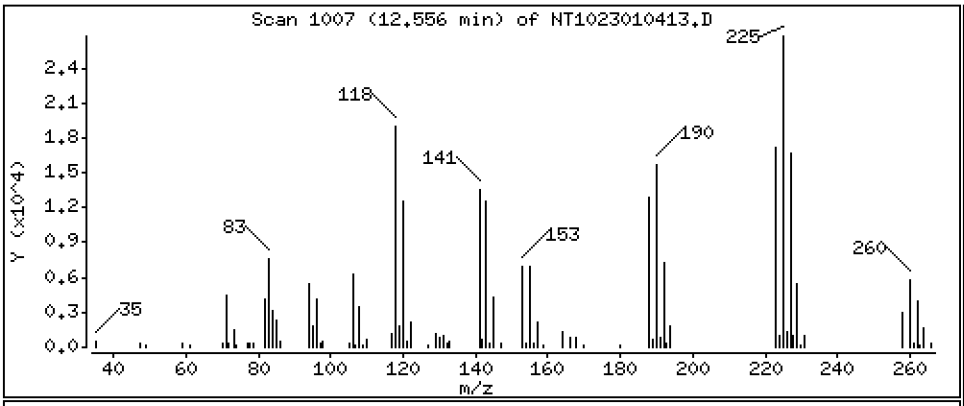
Operator: VTS

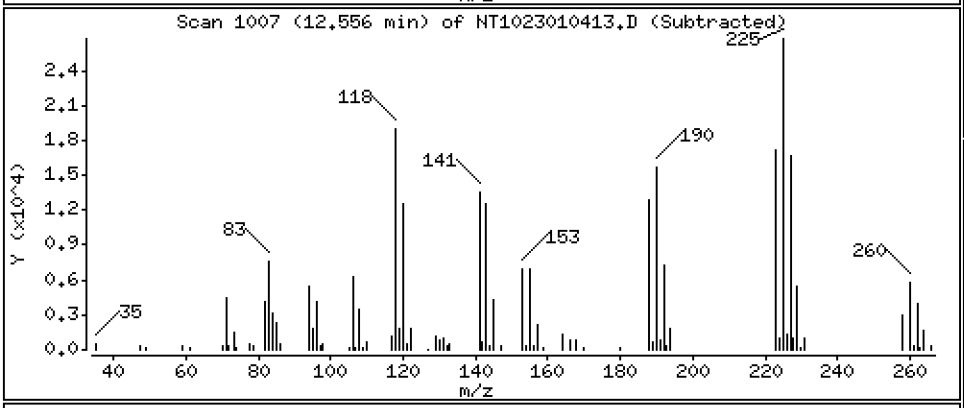
Column phase: ZB-5msi

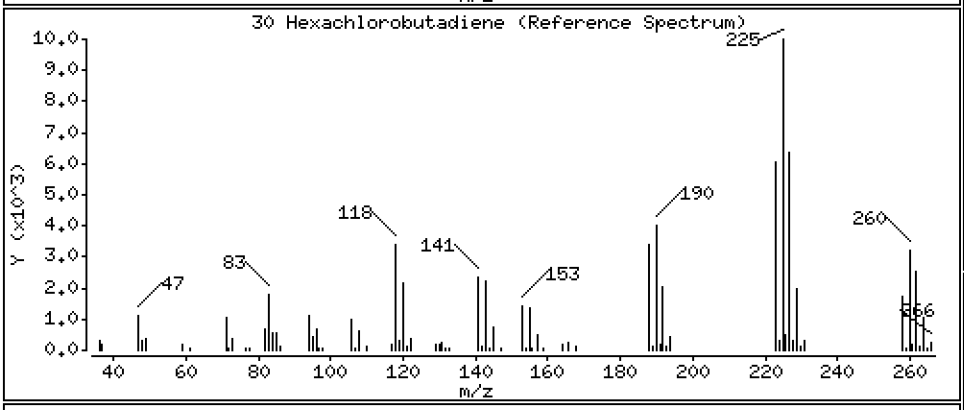
Column diameter: 0.25

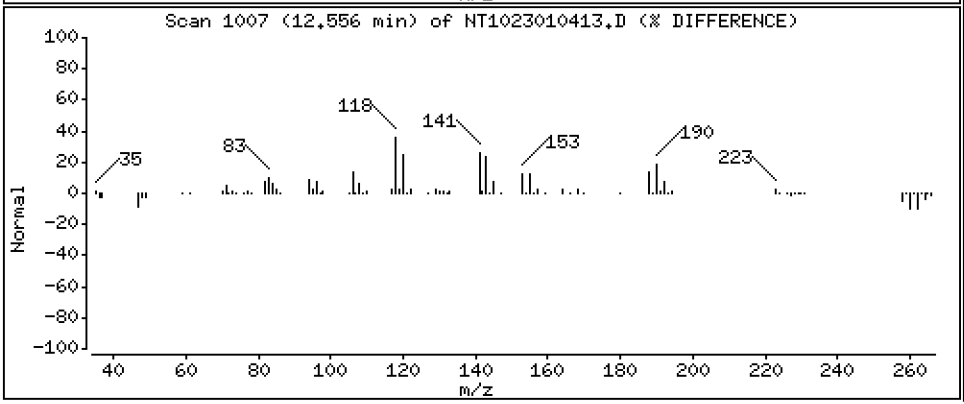
30 Hexachlorobutadiene

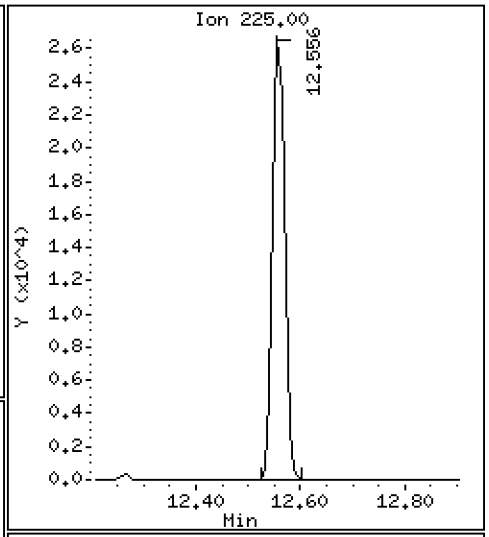
Concentration: 4.884 ug/mL

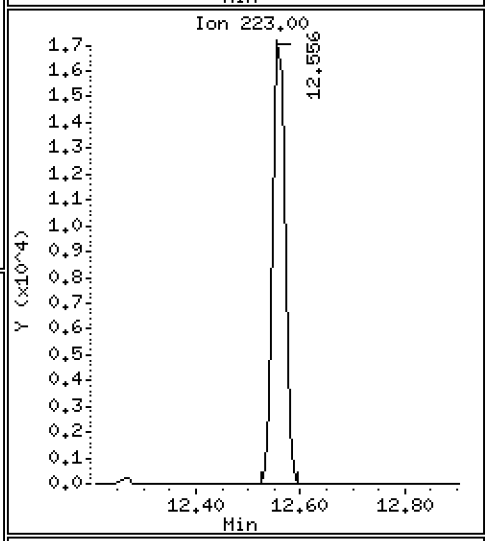


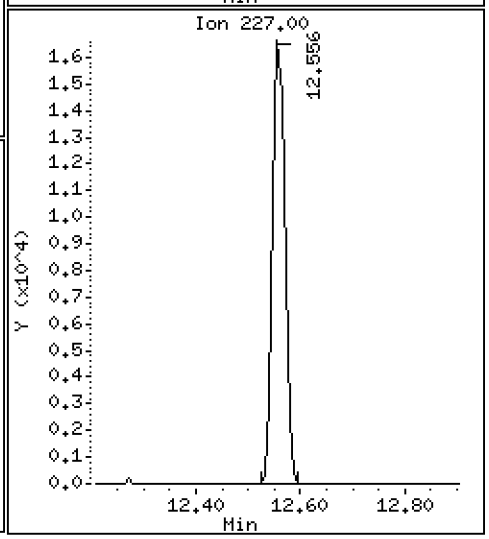












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

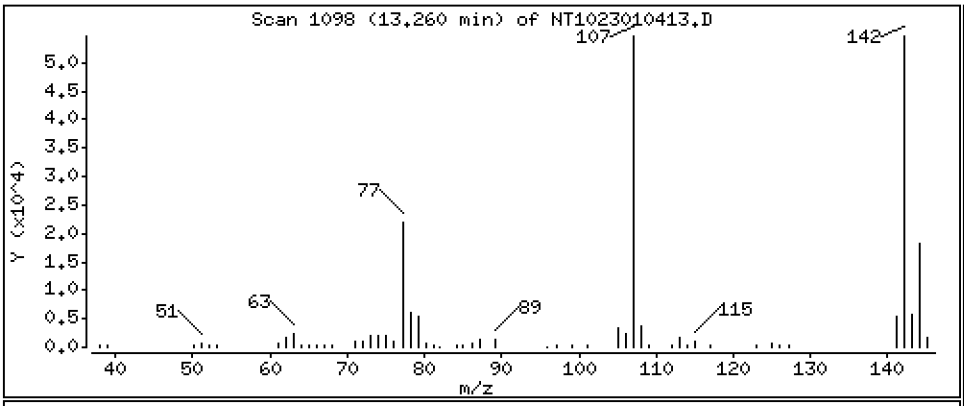
Operator: VTS

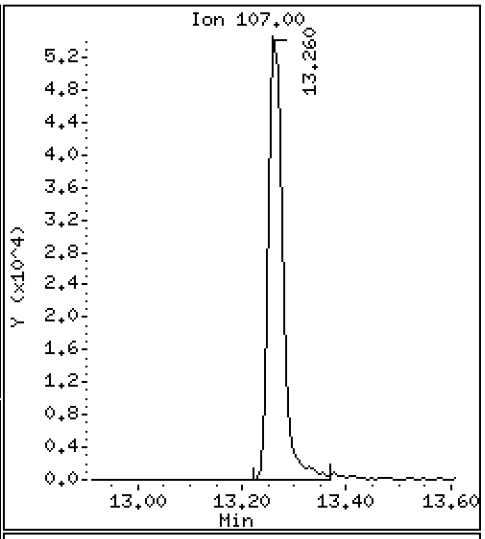
Column phase: ZB-5msi

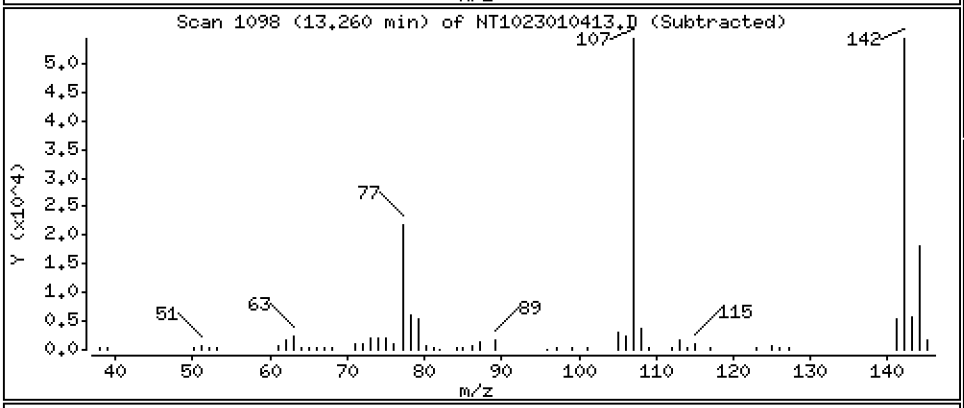
Column diameter: 0.25

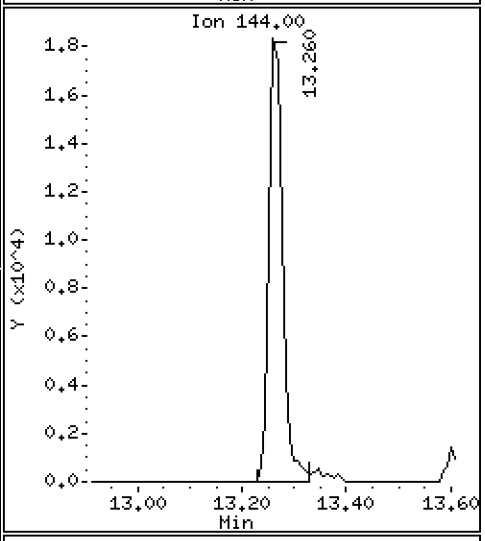
31 4-Chloro-3-methylphenol

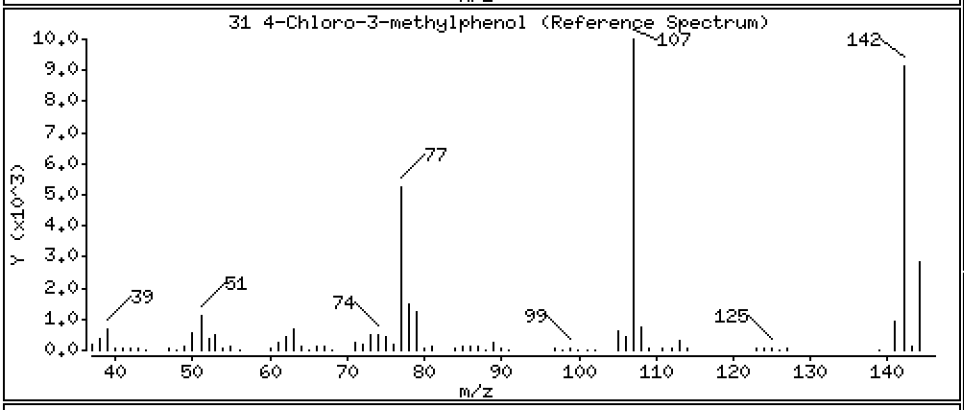
Concentration: 4.515 ug/mL

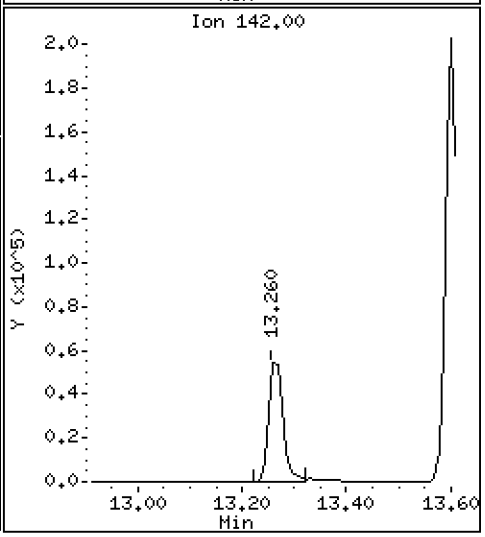


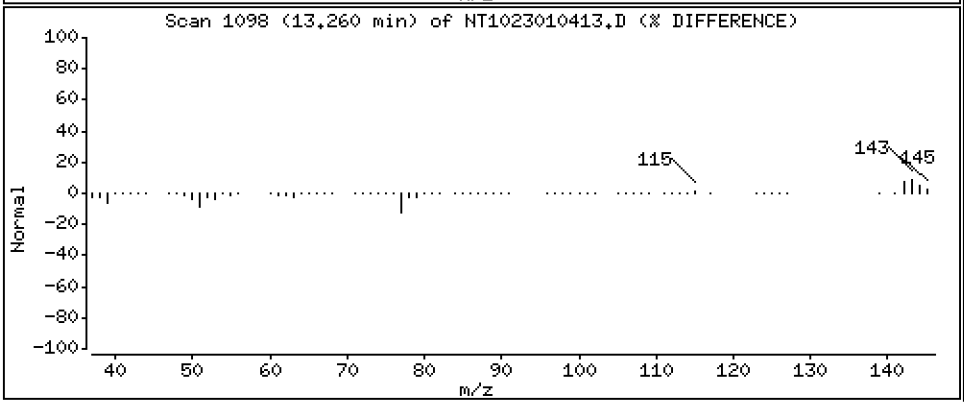












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

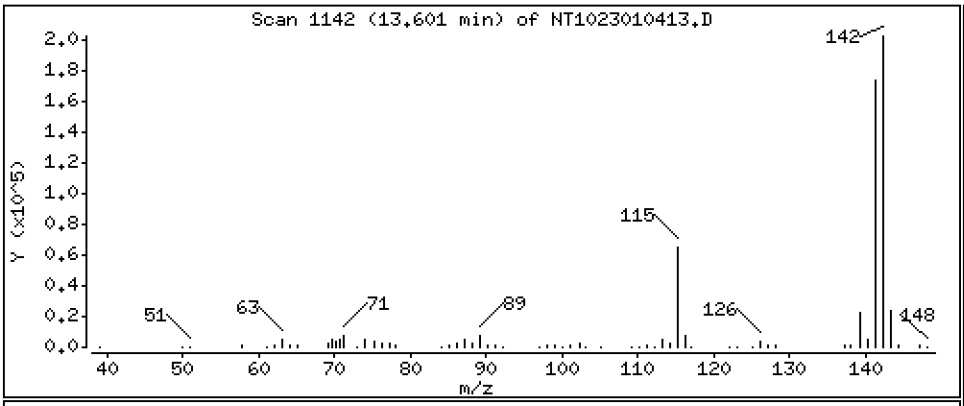
Operator: VTS

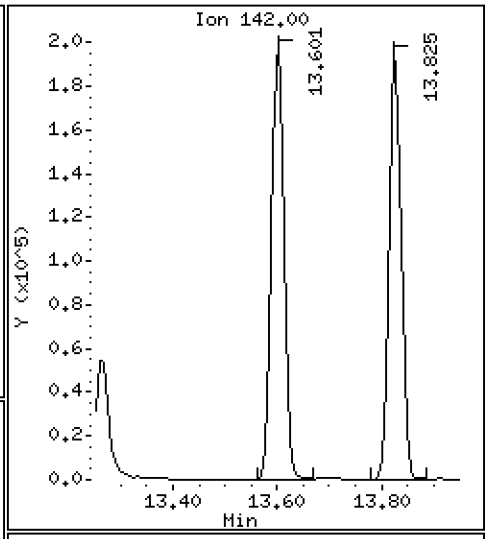
Column phase: ZB-5msi

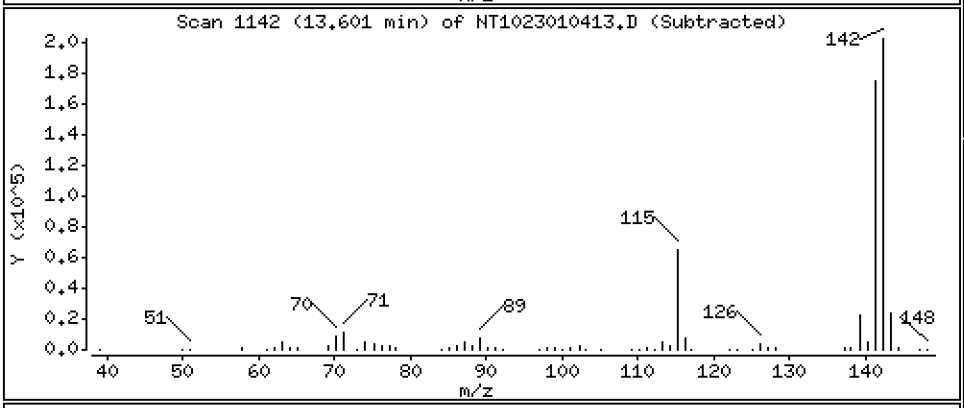
Column diameter: 0.25

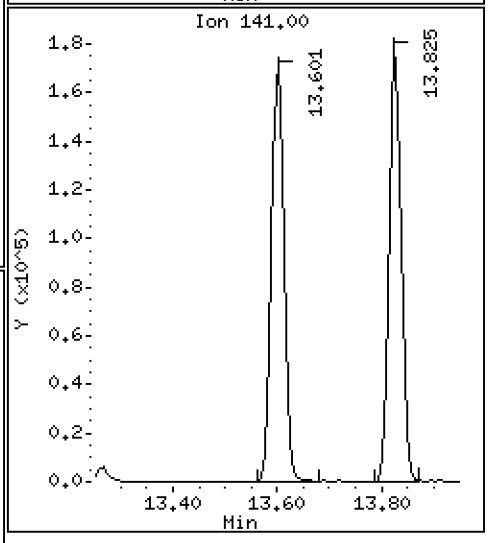
32 2-Methylnaphthalene

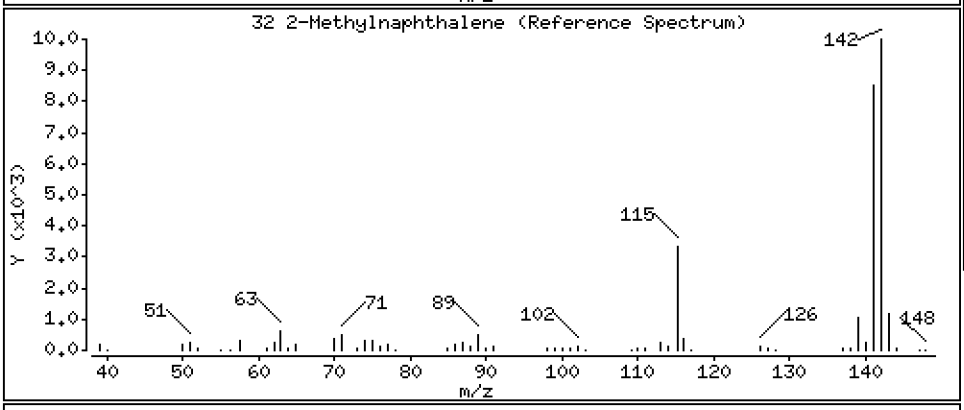
Concentration: 5.163 ug/mL

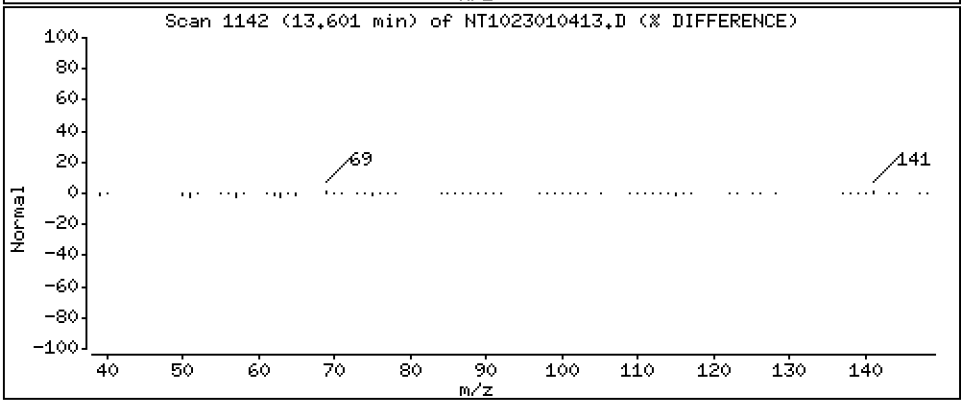












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

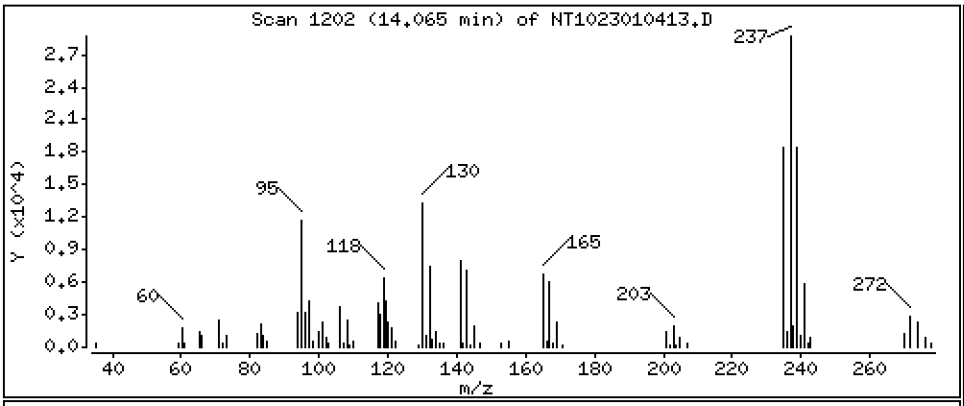
Operator: VTS

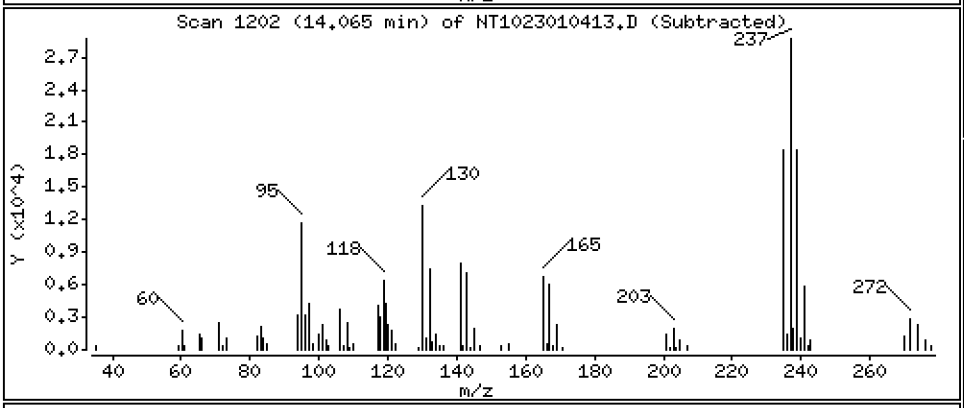
Column phase: ZB-5msi

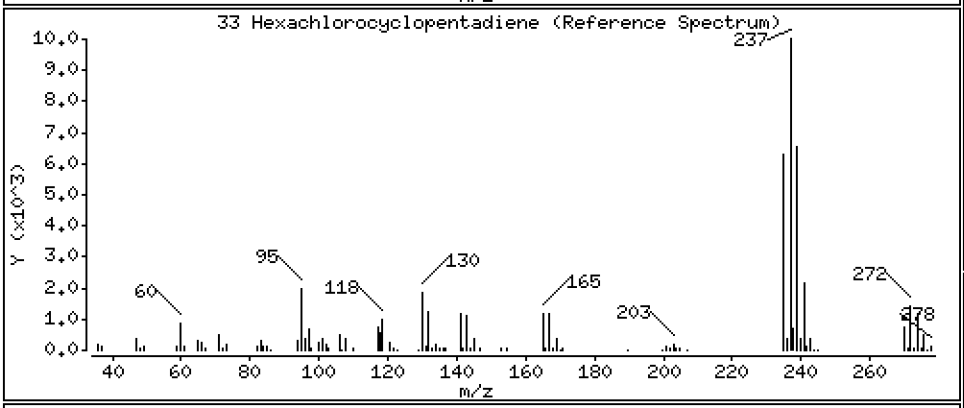
Column diameter: 0.25

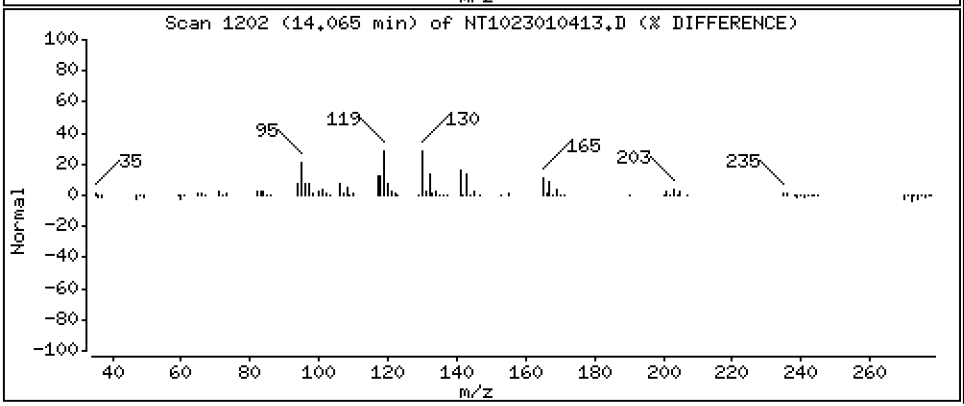
33 Hexachlorocyclopentadiene

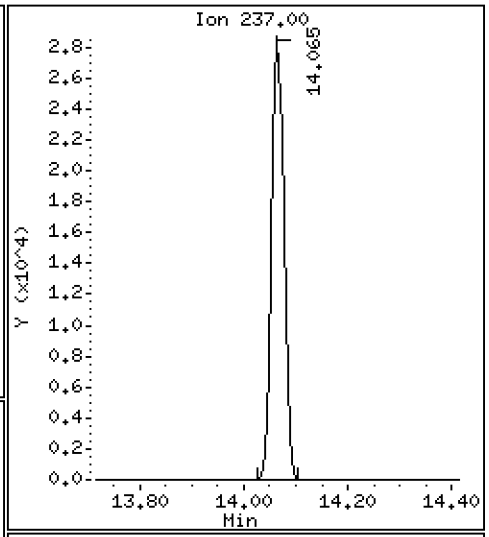
Concentration: 5.178 ug/mL

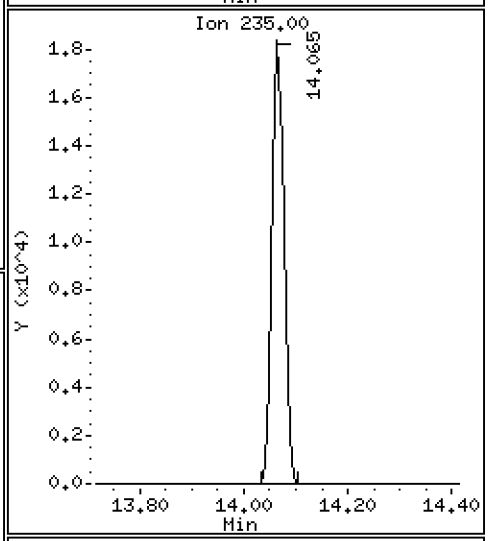


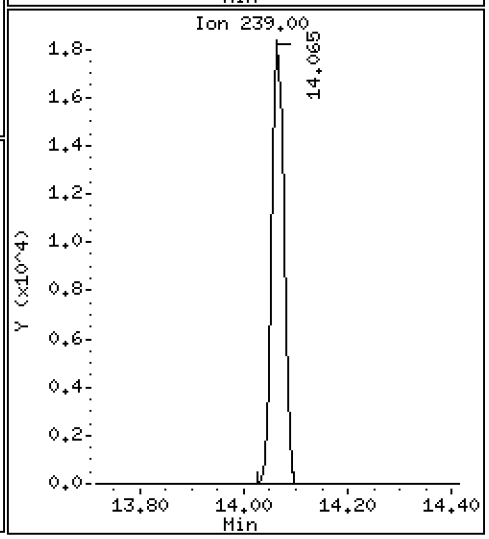












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

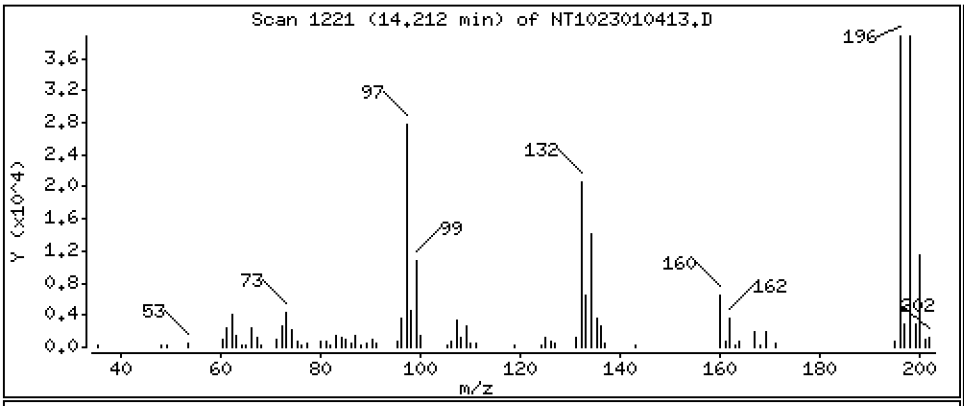
Operator: VTS

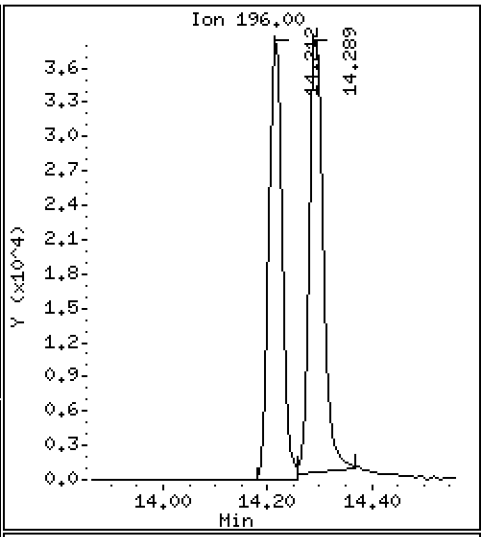
Column phase: ZB-5msi

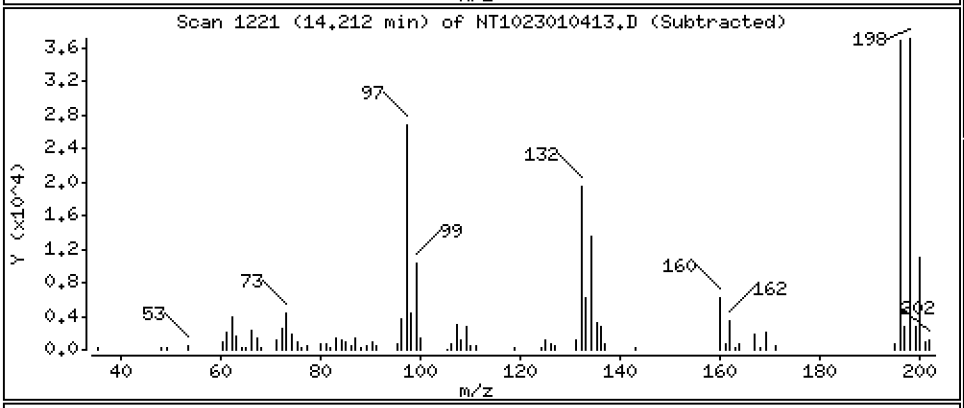
Column diameter: 0.25

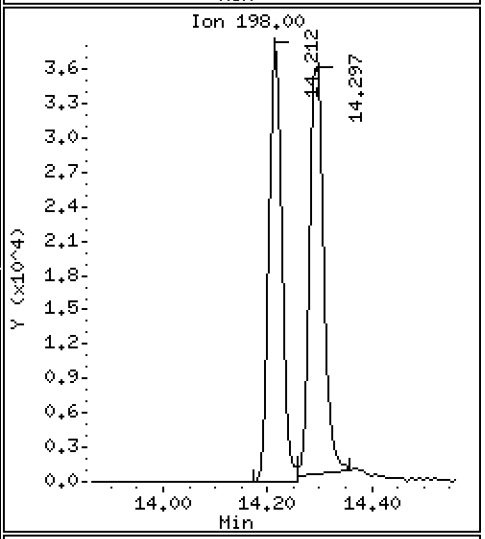
34 2,4,6-Trichlorophenol

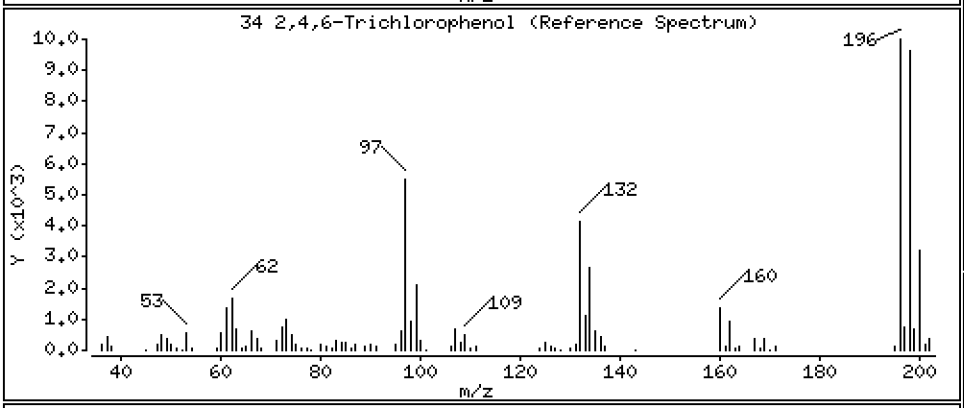
Concentration: 4.948 ug/mL

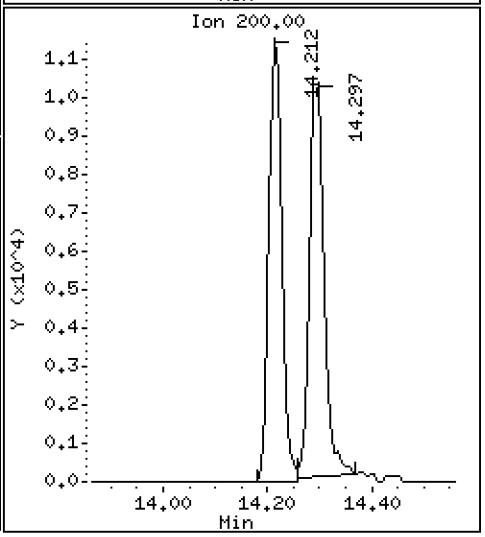


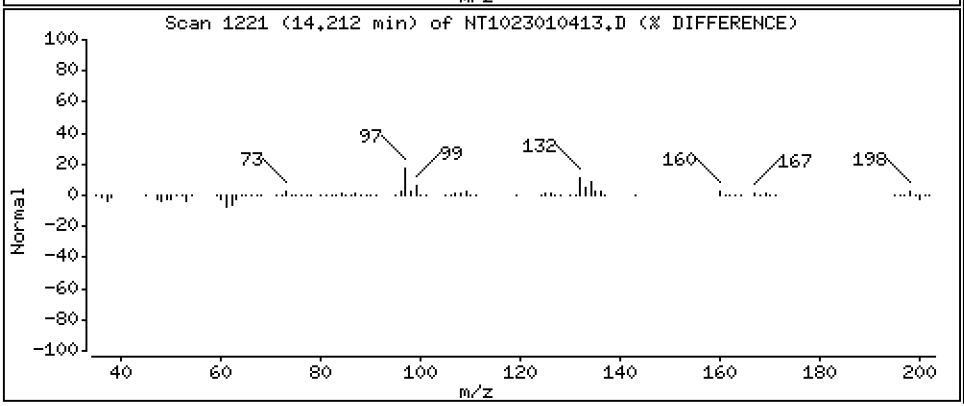












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

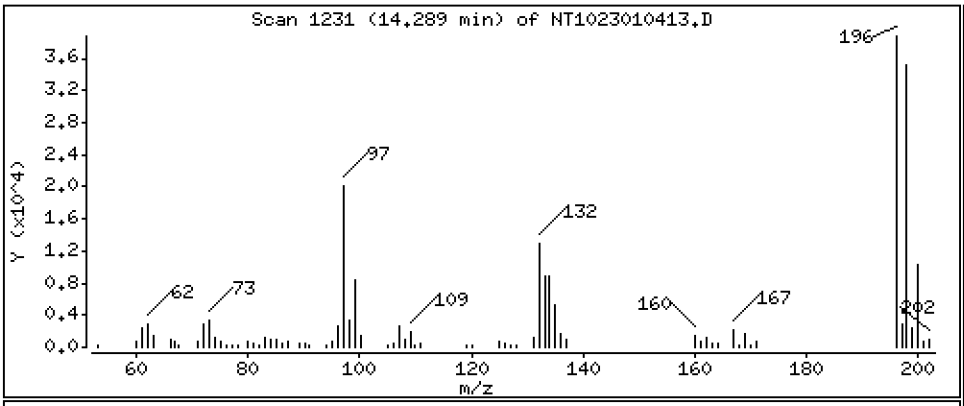
Operator: VTS

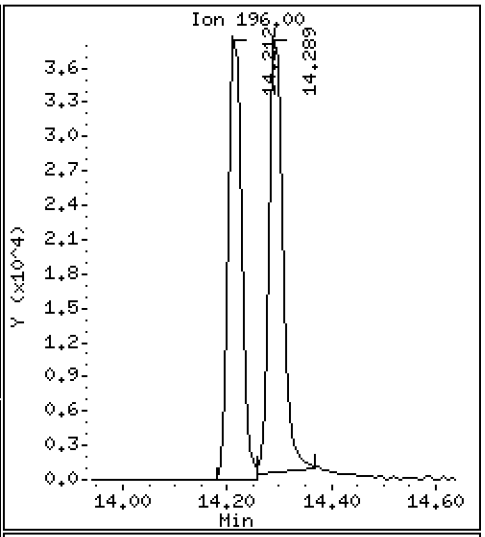
Column phase: ZB-5msi

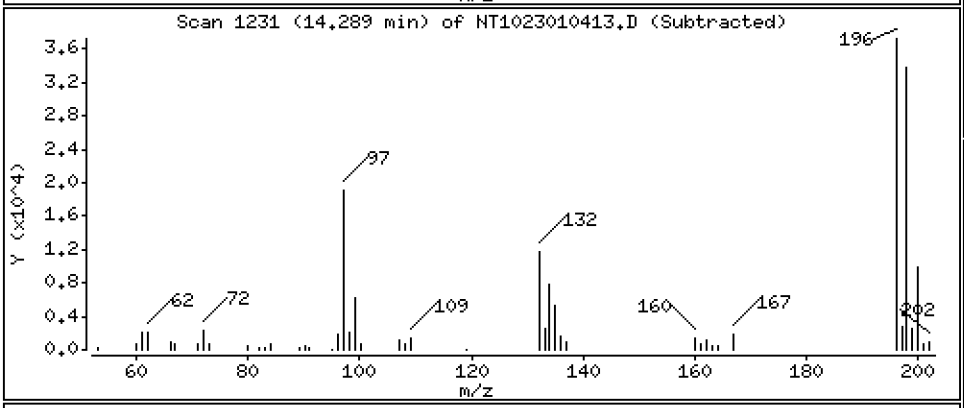
Column diameter: 0.25

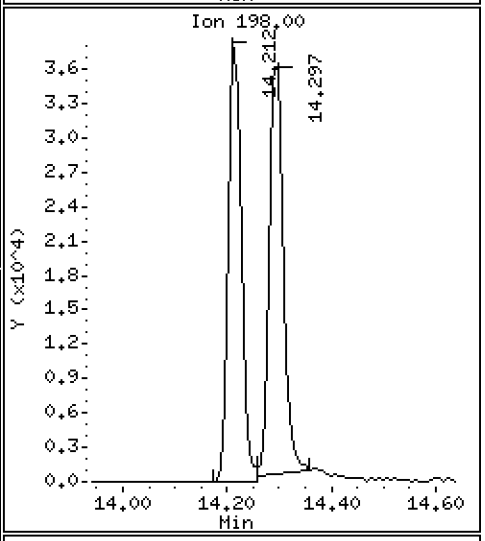
35 2,4,5-Trichlorophenol

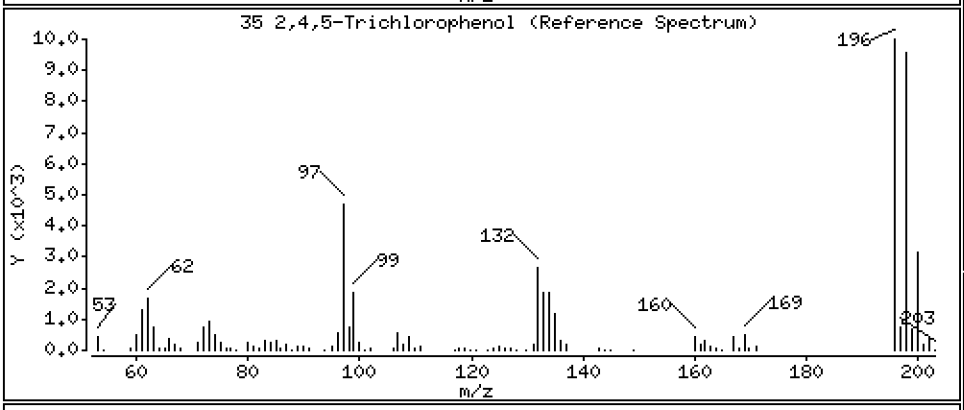
Concentration: 4.607 ug/mL

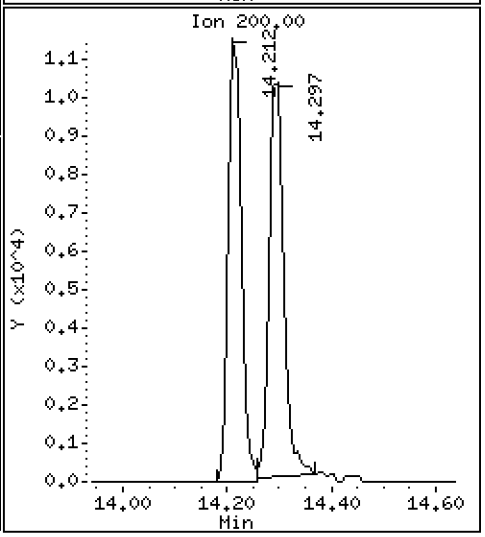


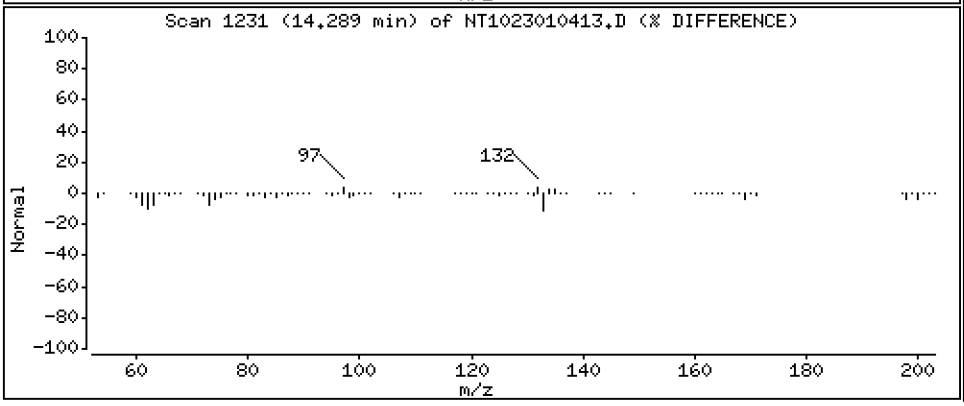












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

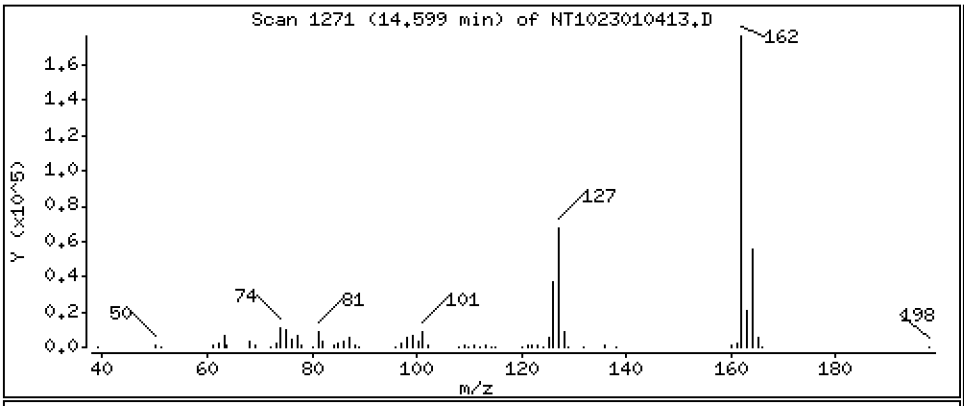
Operator: VTS

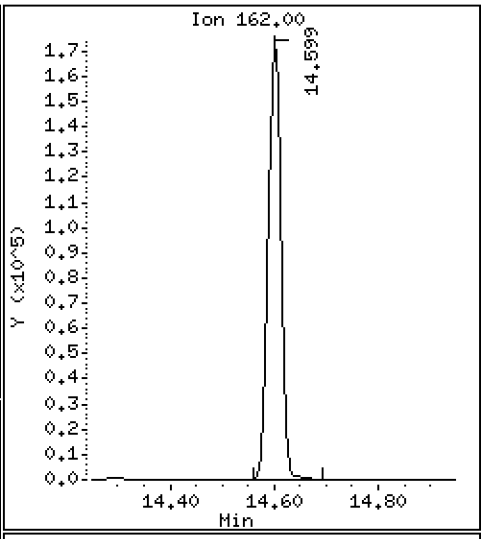
Column phase: ZB-5msi

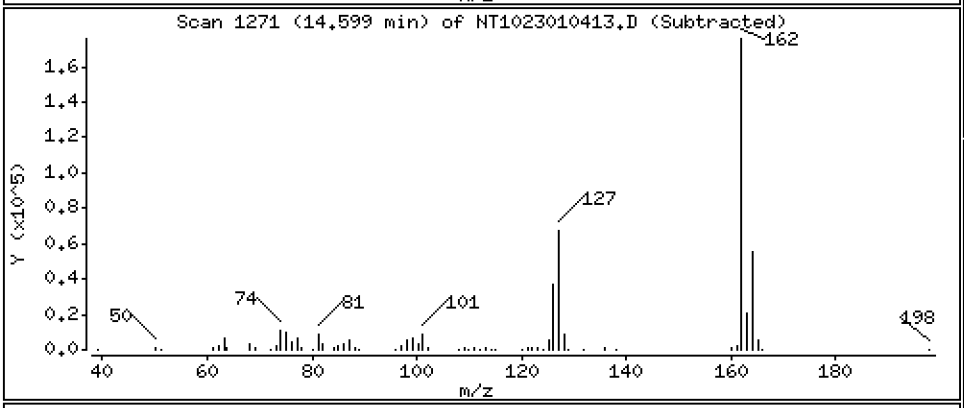
Column diameter: 0.25

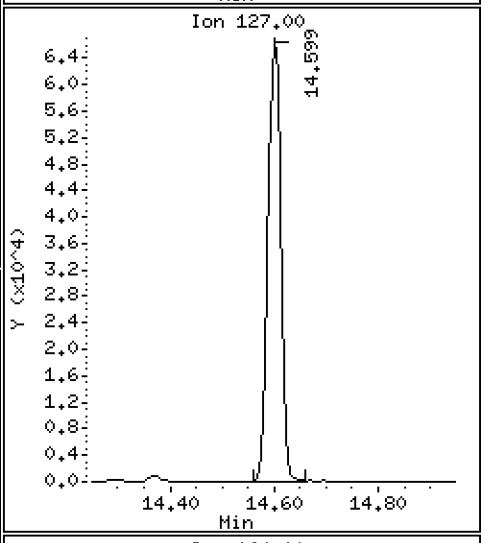
37 2-Chloronaphthalene

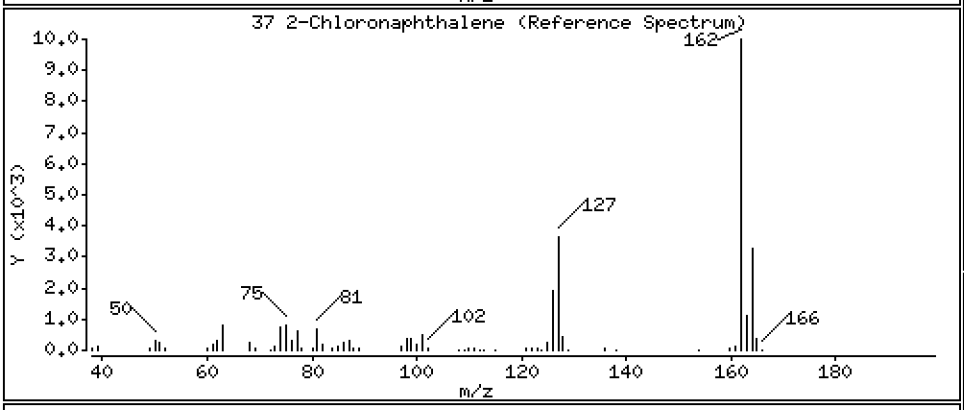
Concentration: 5.379 ug/mL

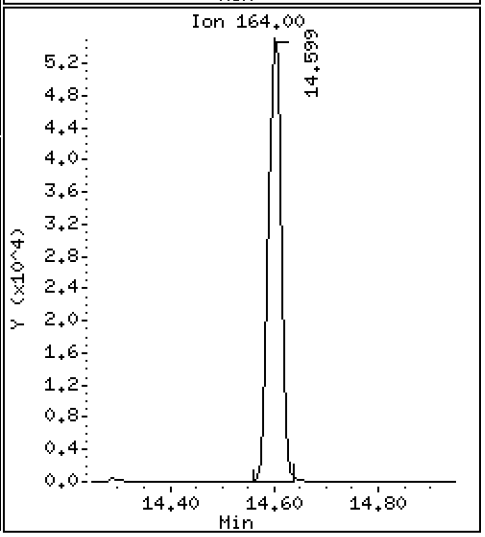


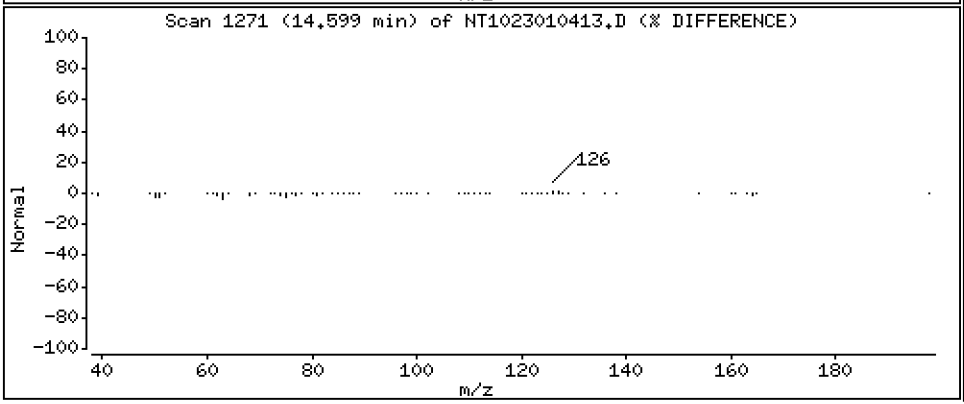












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

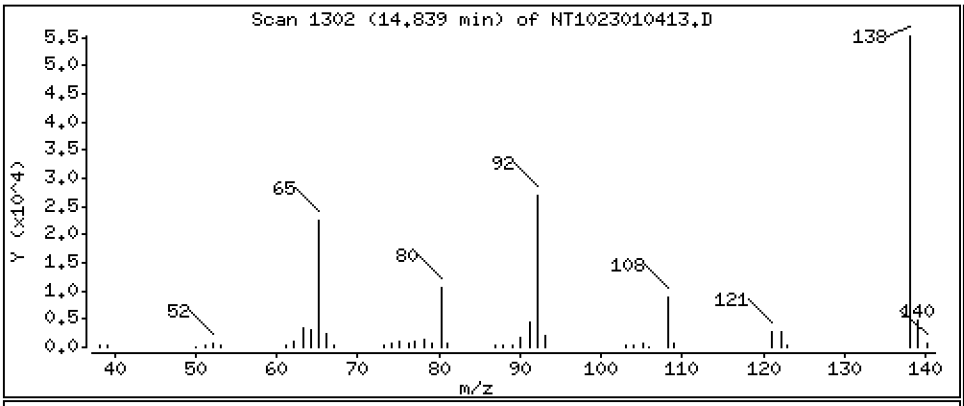
Operator: VTS

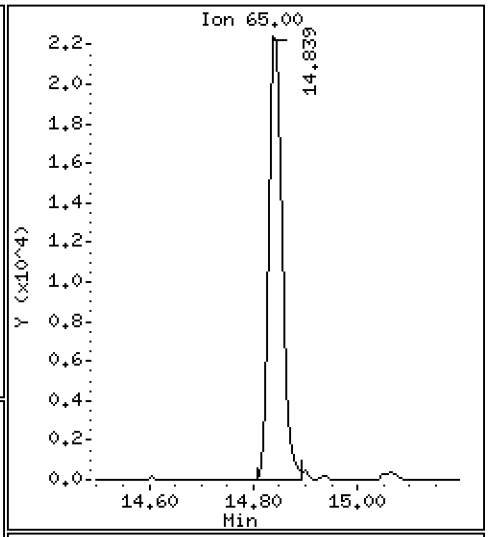
Column phase: ZB-5msi

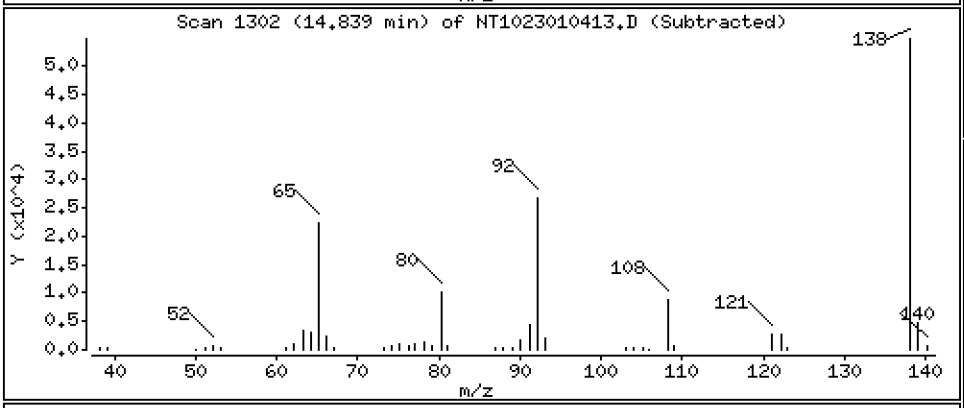
Column diameter: 0.25

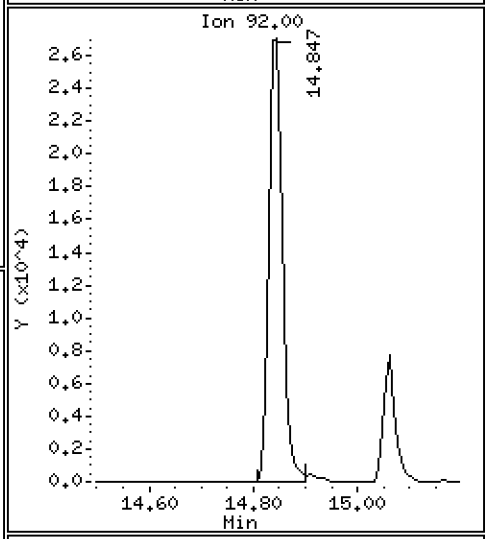
38 2-Nitroaniline

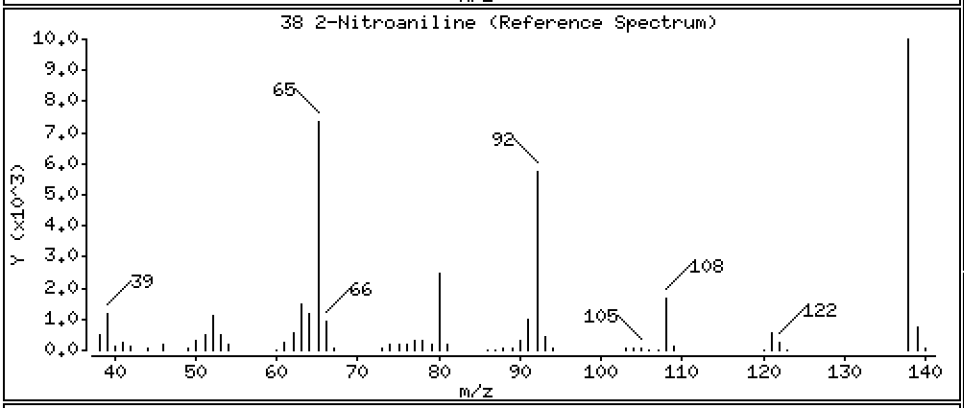
Concentration: 5.391 ug/mL

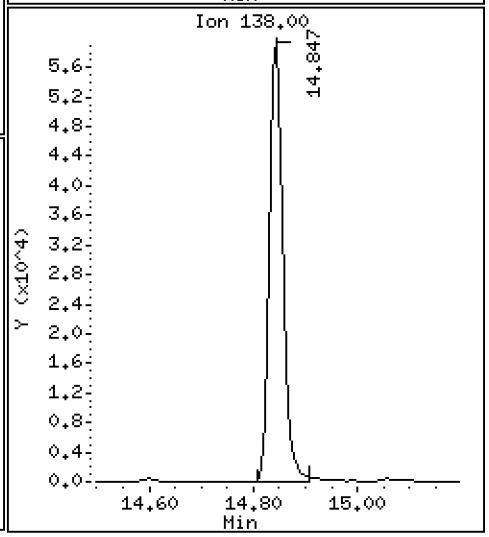


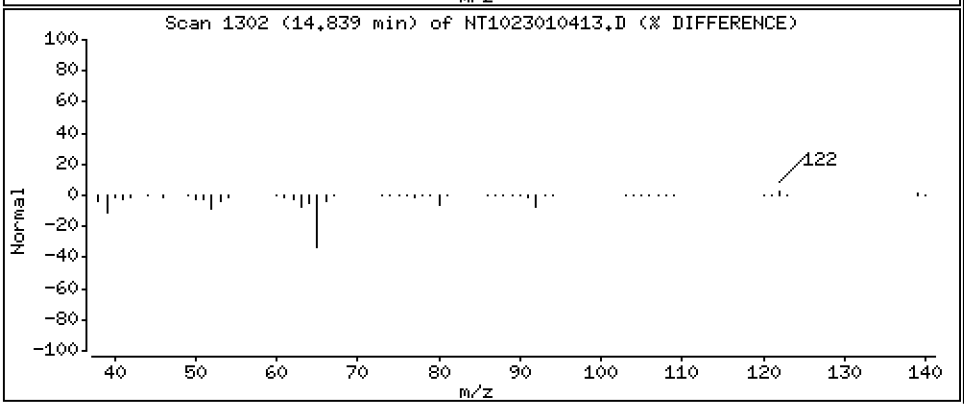












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

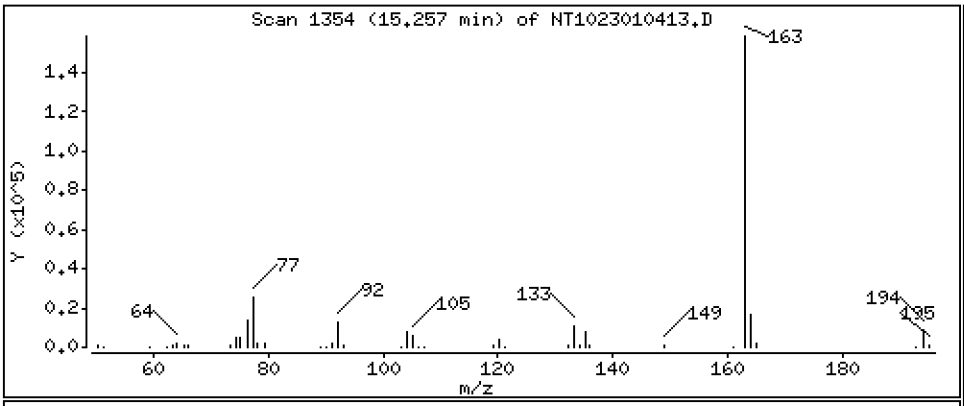
Operator: VTS

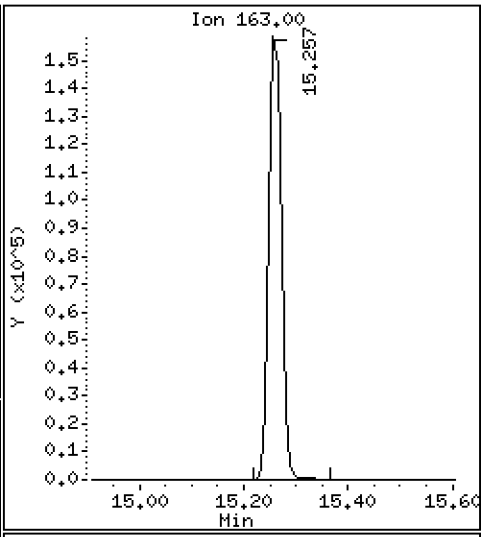
Column phase: ZB-5msi

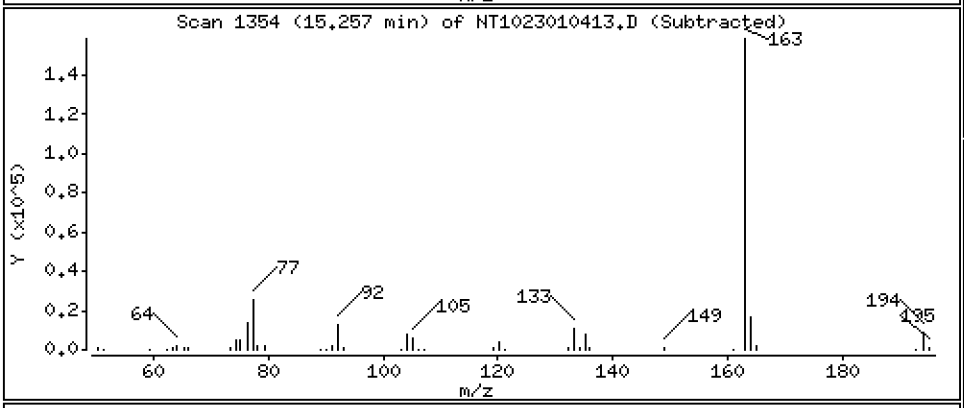
Column diameter: 0.25

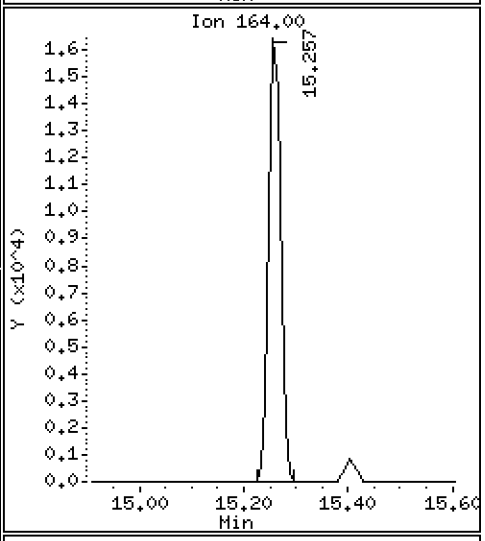
39 Dimethylphthalate

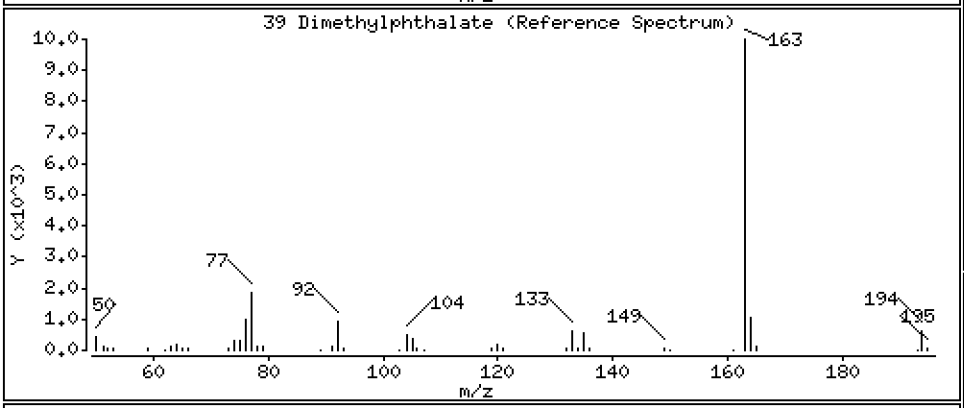
Concentration: 5.362 ug/mL

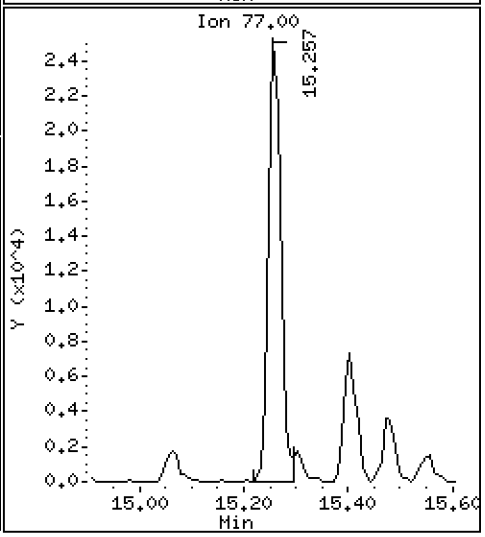


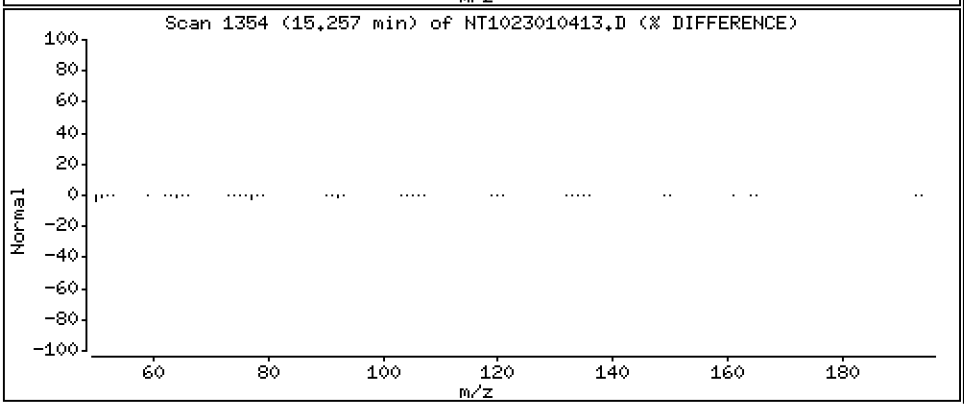












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

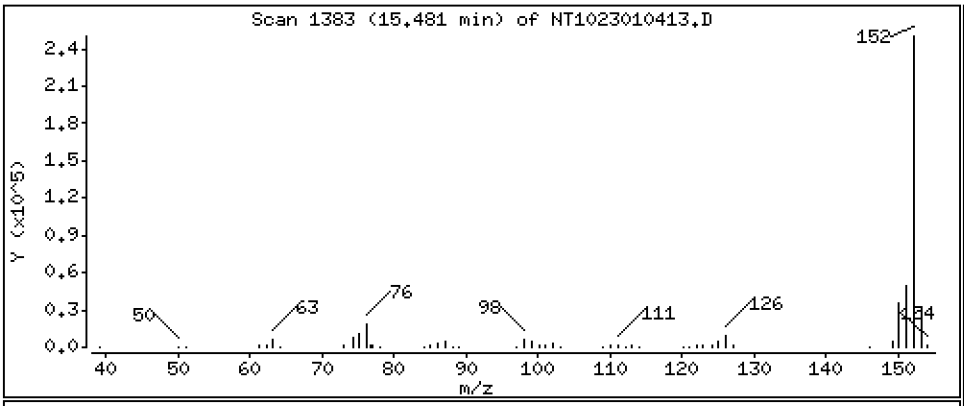
Operator: VTS

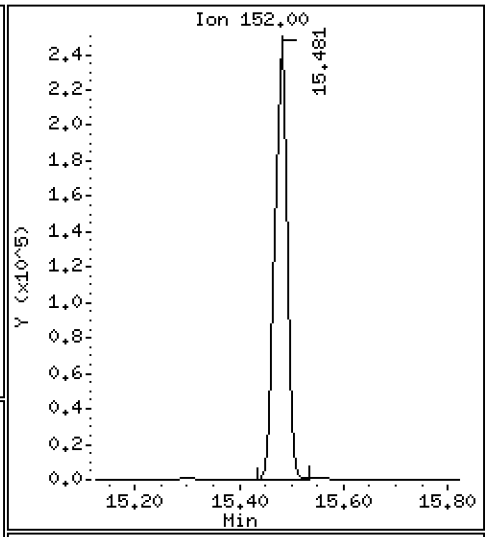
Column phase: ZB-5msi

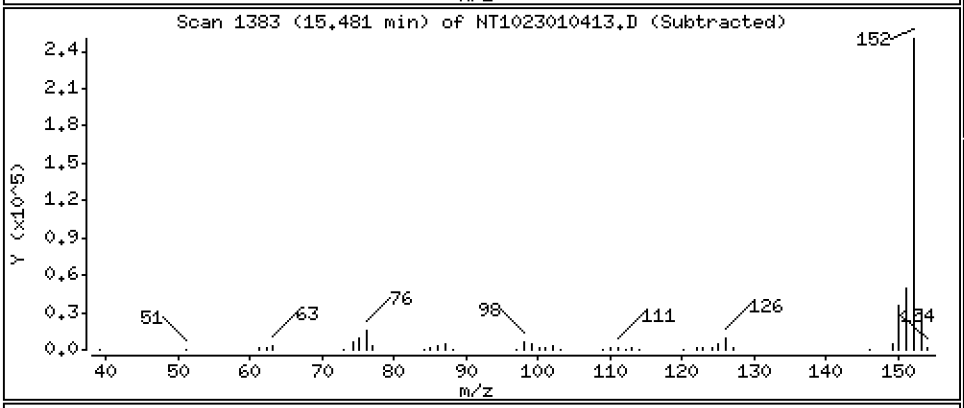
Column diameter: 0.25

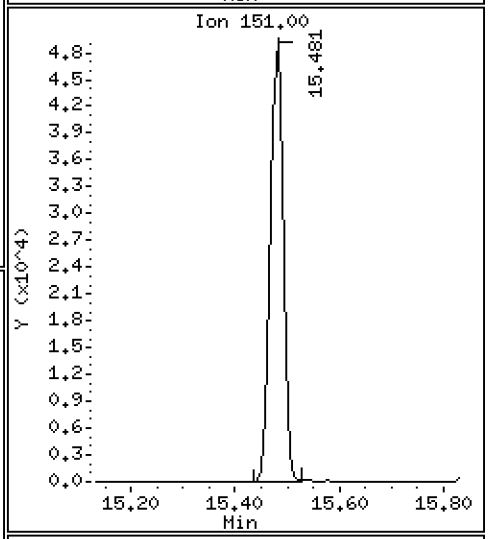
40 Acenaphthylene

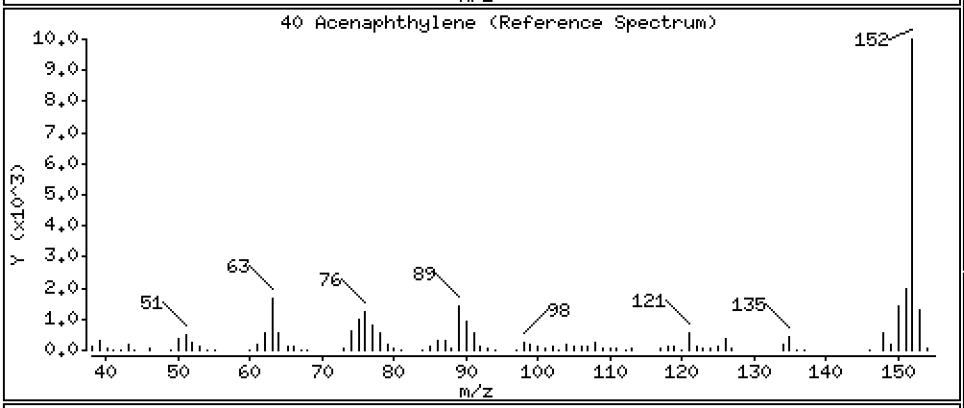
Concentration: 5.275 ug/mL

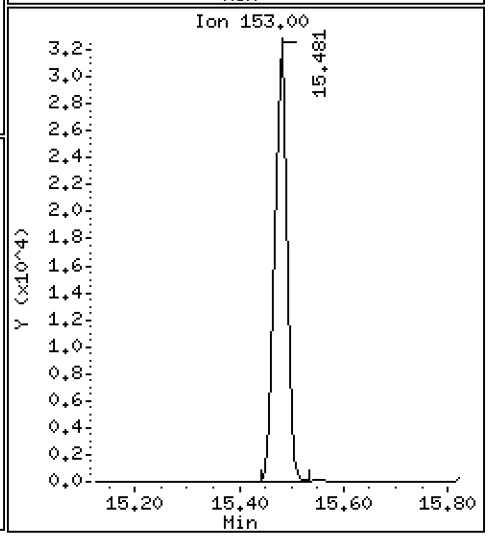


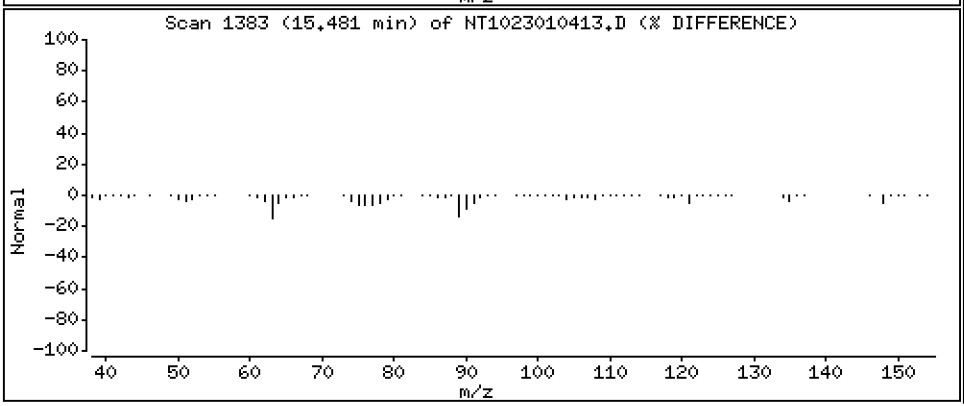












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

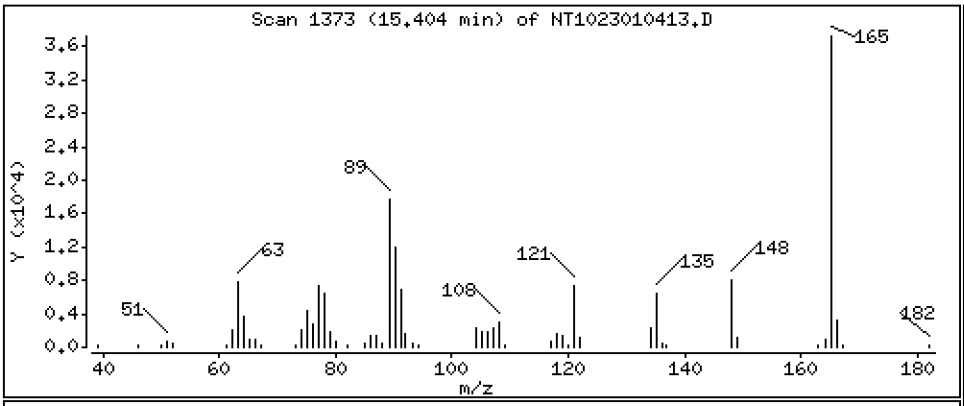
Operator: VTS

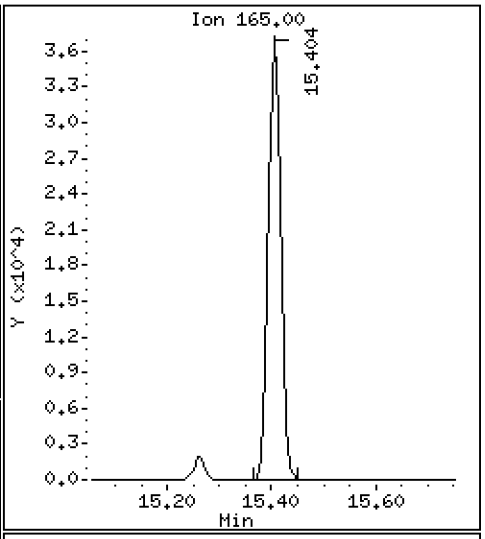
Column phase: ZB-5msi

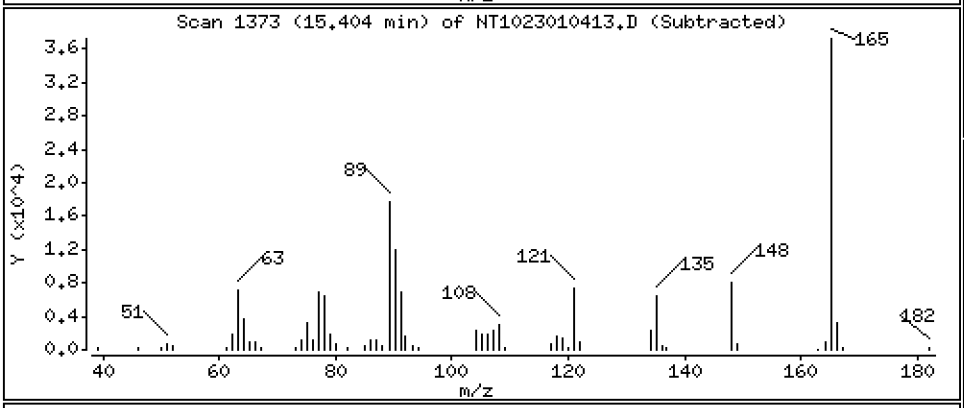
Column diameter: 0.25

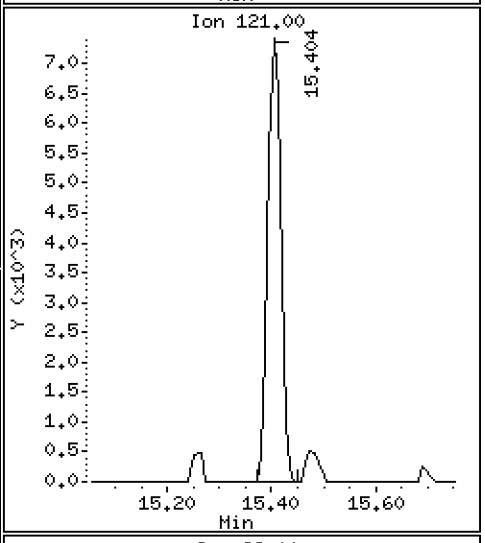
41 2,6-Dinitrotoluene

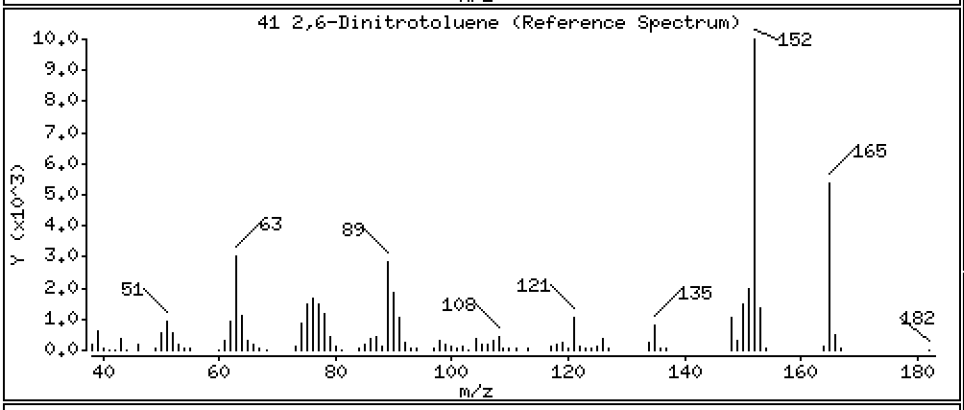
Concentration: 5.450 ug/mL

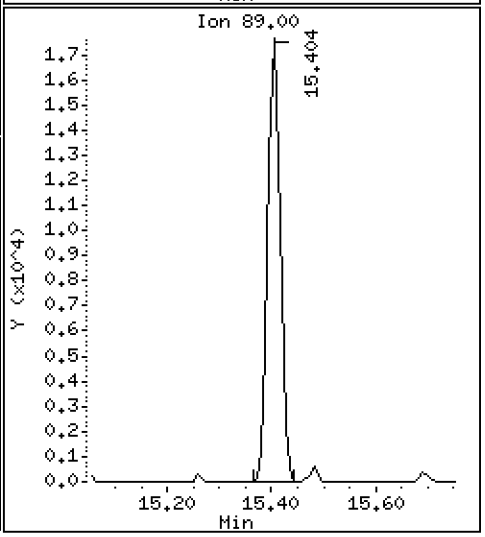


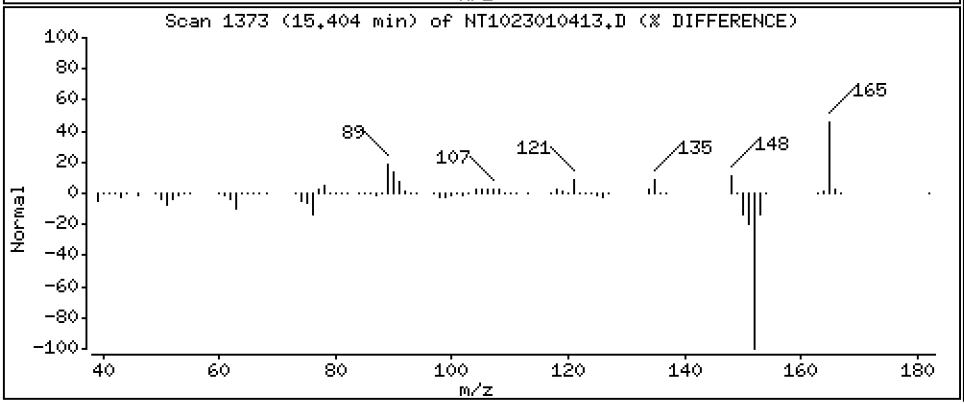












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

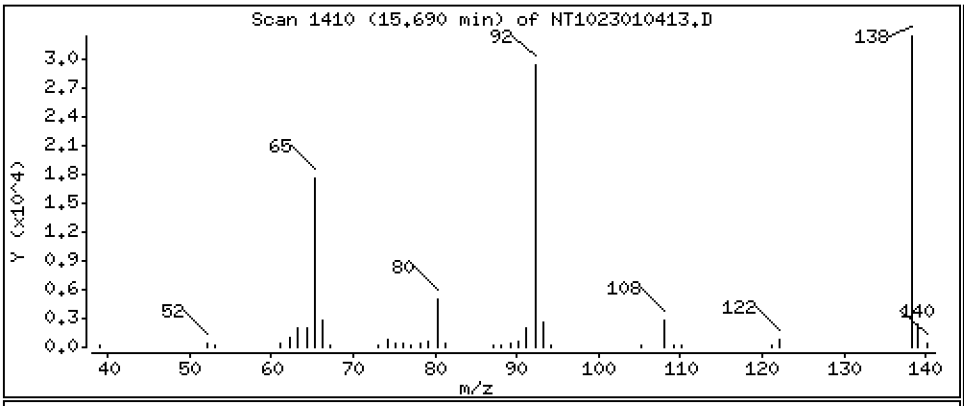
Operator: VTS

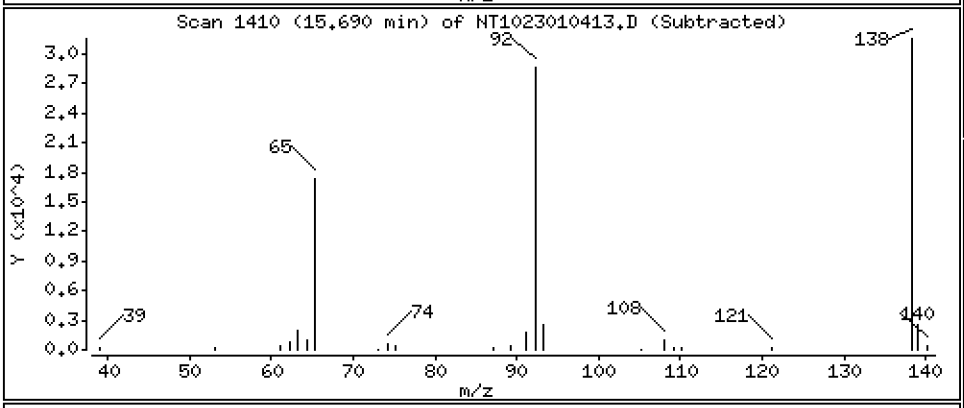
Column phase: ZB-5msi

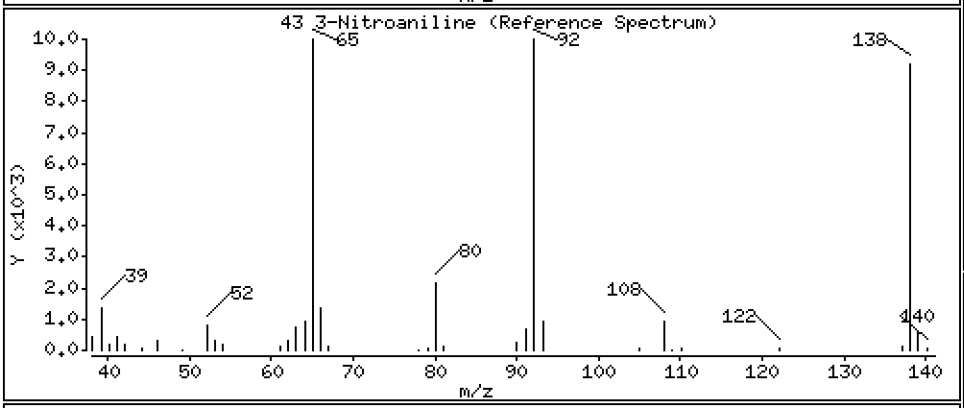
Column diameter: 0.25

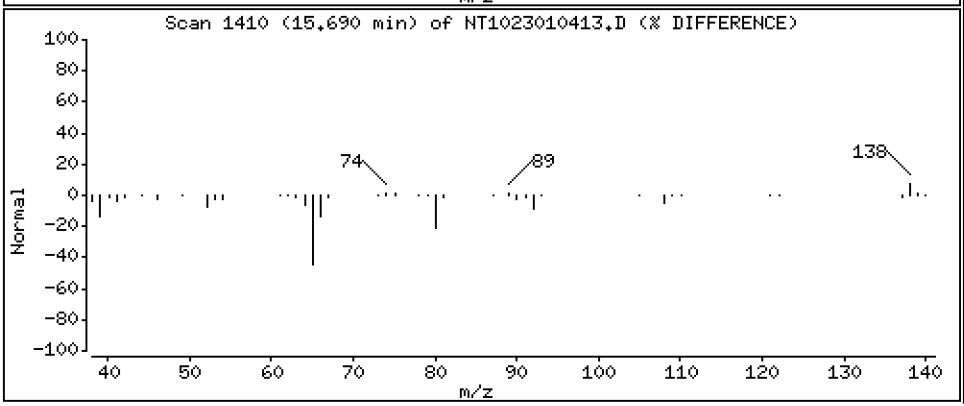
43 3-Nitroaniline

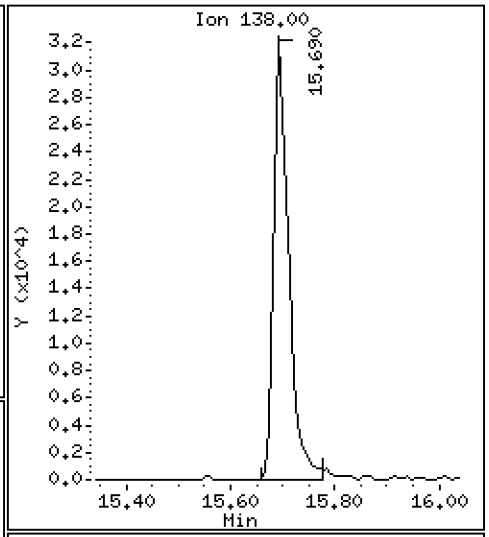
Concentration: 6.037 ug/mL

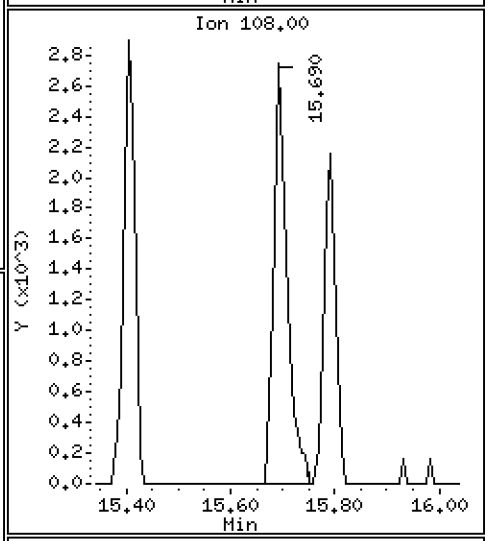


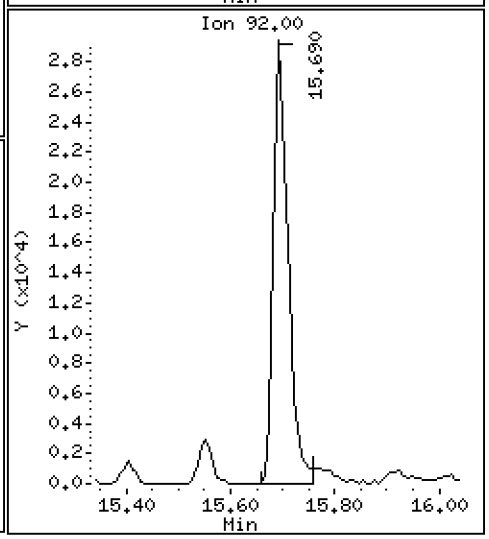












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

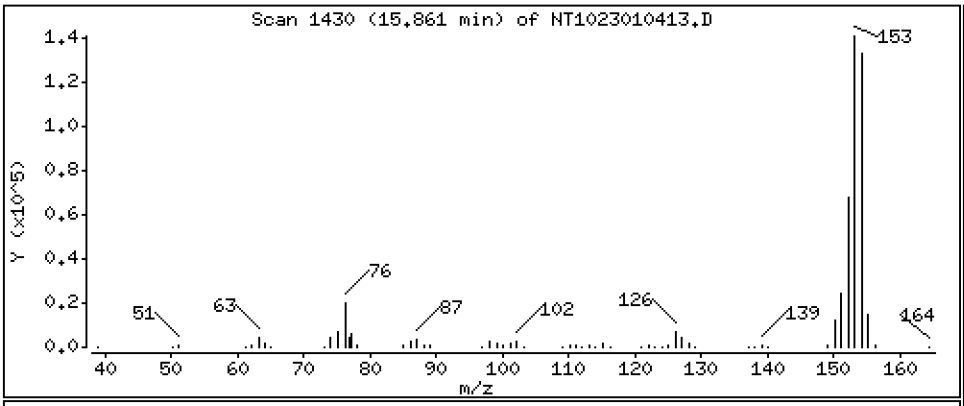
Operator: VTS

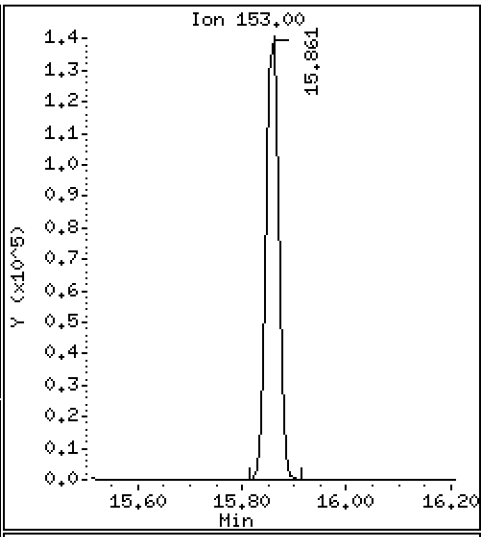
Column phase: ZB-5msi

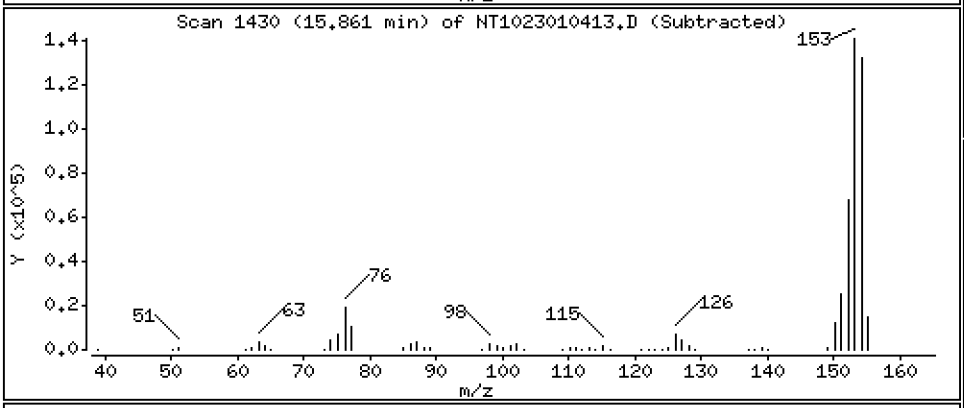
Column diameter: 0.25

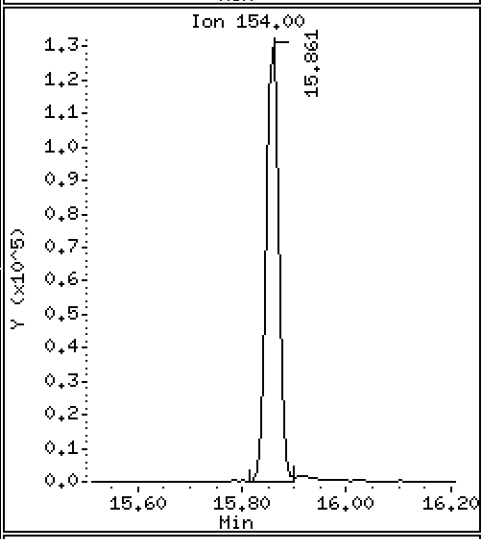
44 Acenaphthene

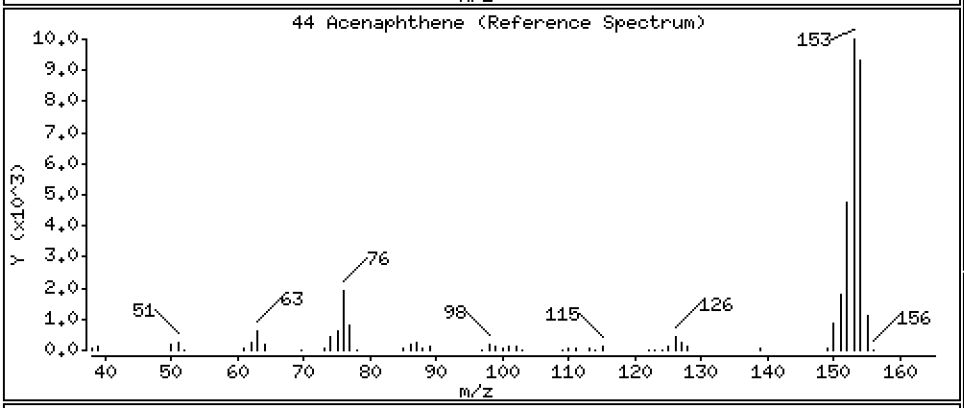
Concentration: 5.393 ug/mL

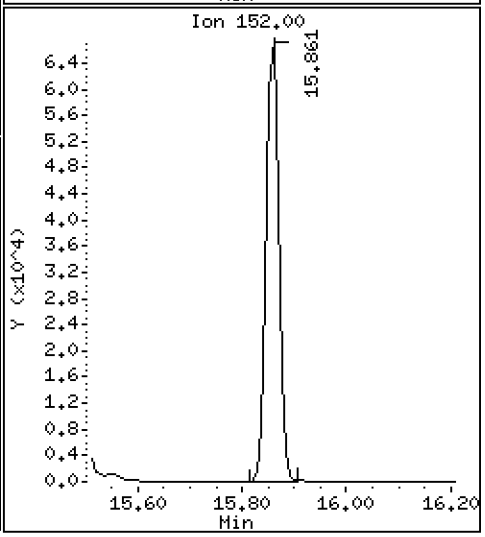


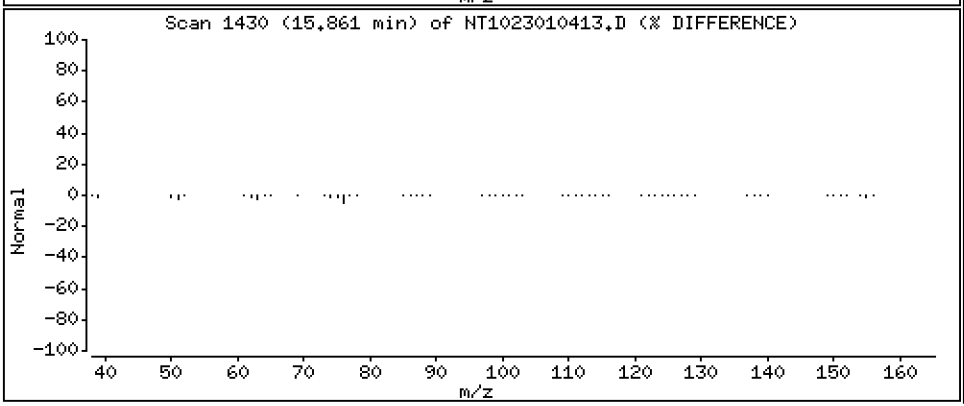












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

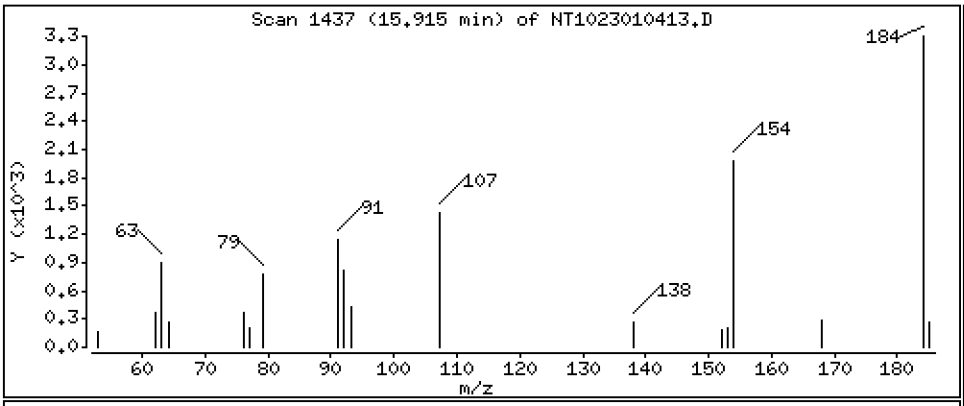
Operator: VTS

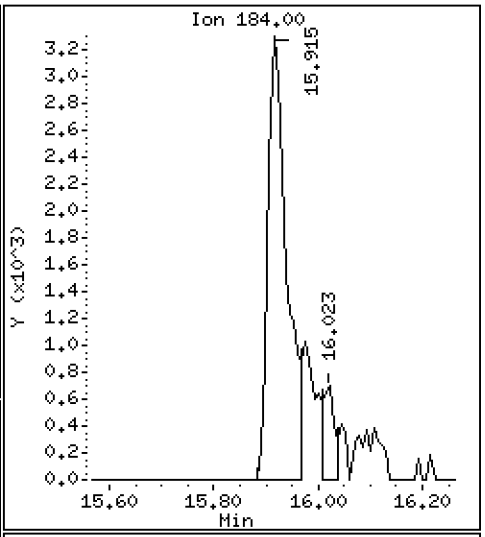
Column phase: ZB-5msi

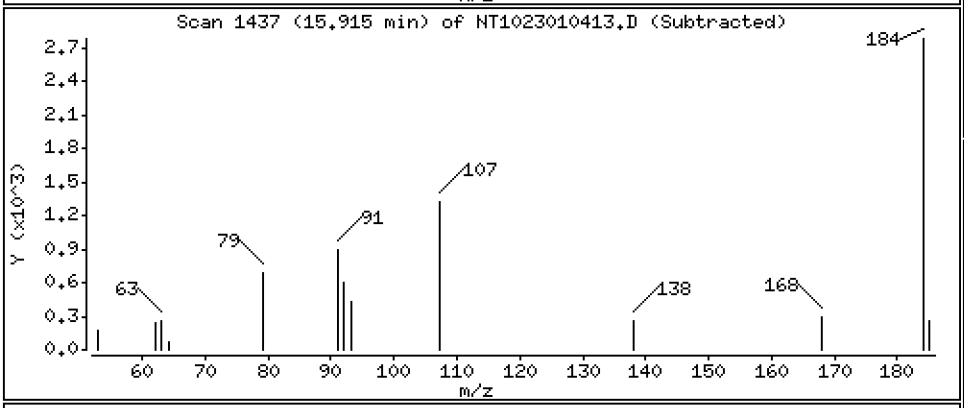
Column diameter: 0.25

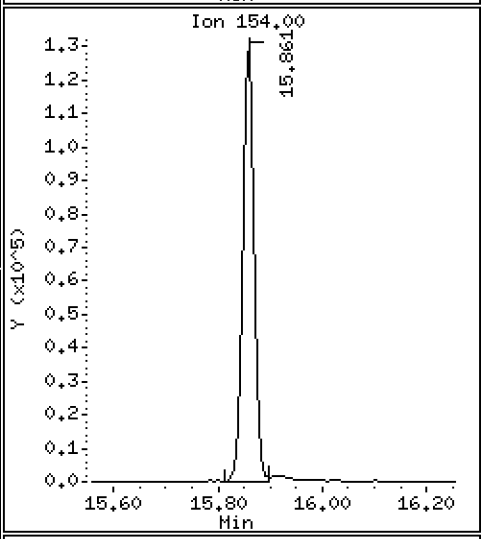
45 2,4-Dinitrophenol

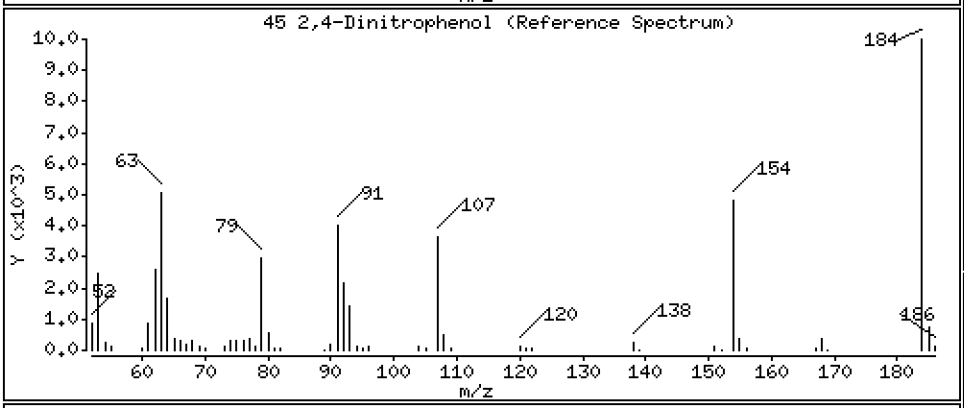
Concentration: 1.161 ug/mL

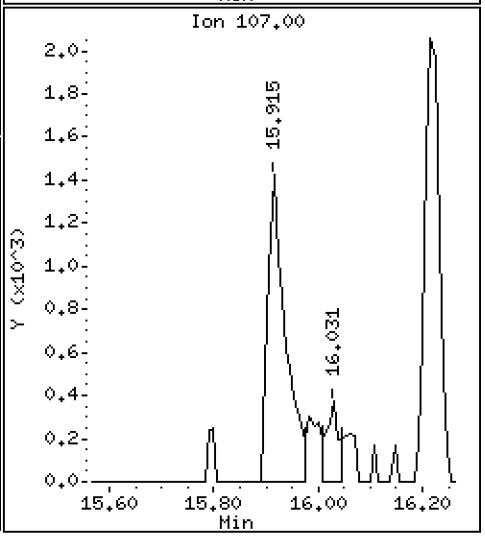


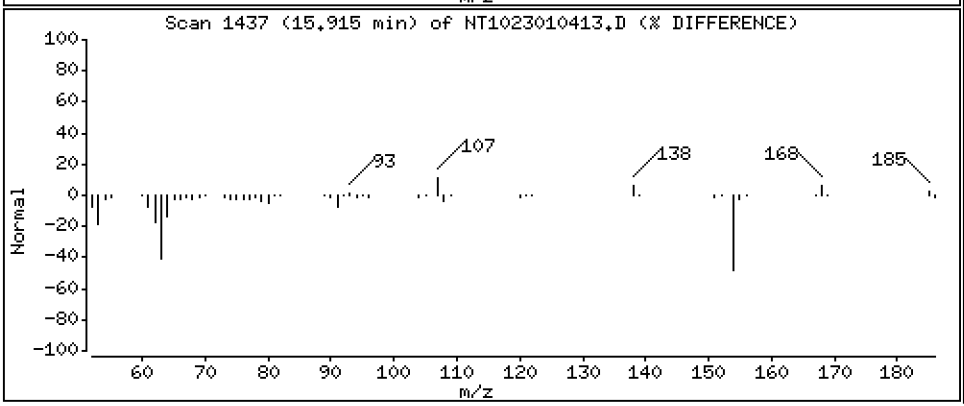












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

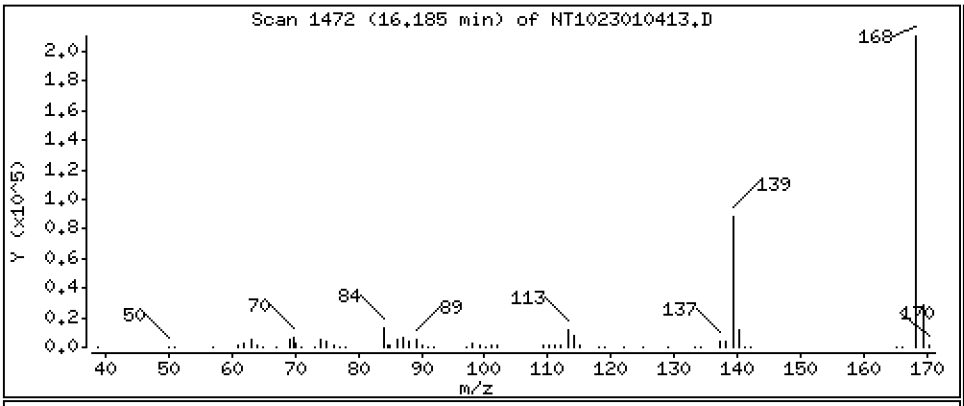
Operator: VTS

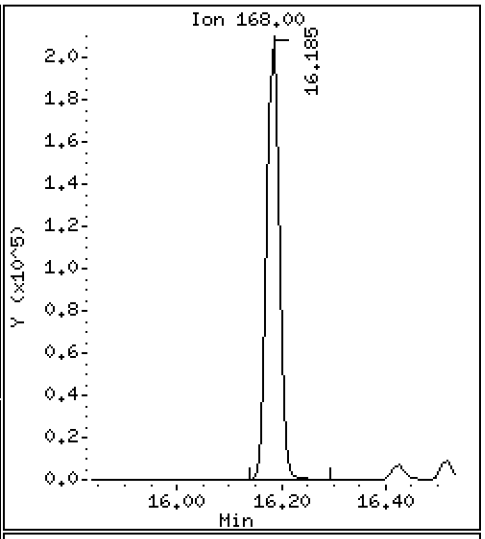
Column phase: ZB-5msi

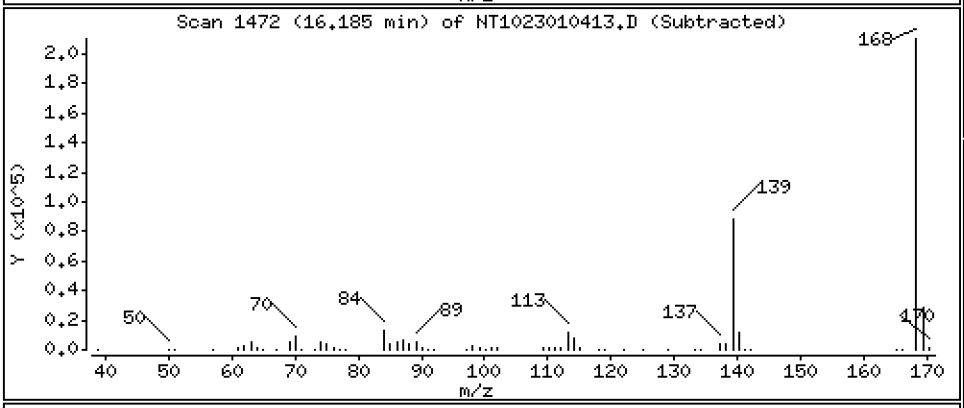
Column diameter: 0.25

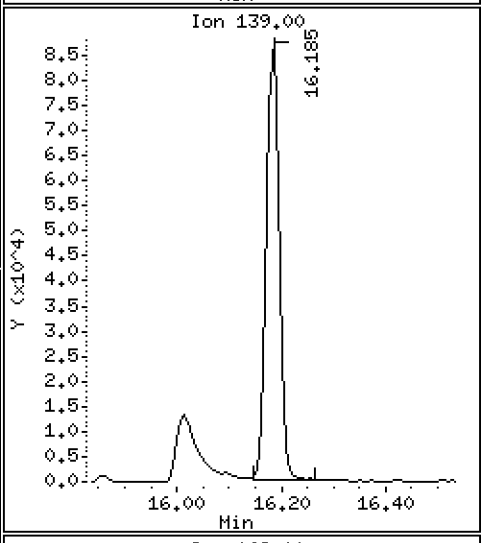
46 Dibenzofuran

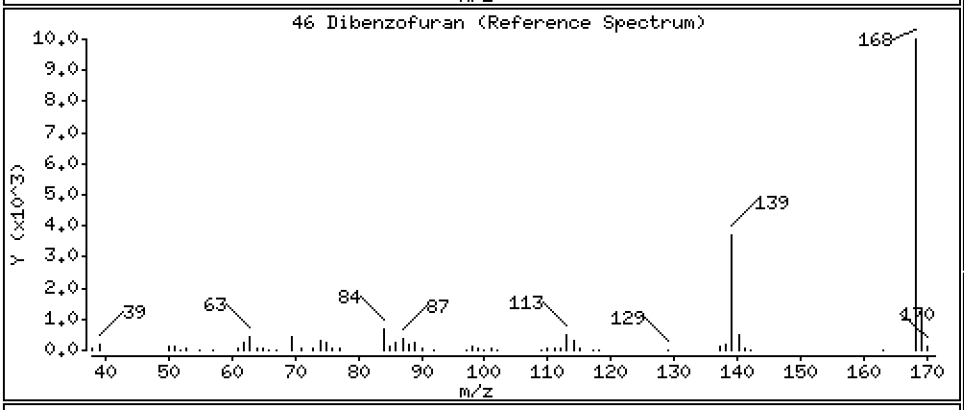
Concentration: 5.268 ug/mL

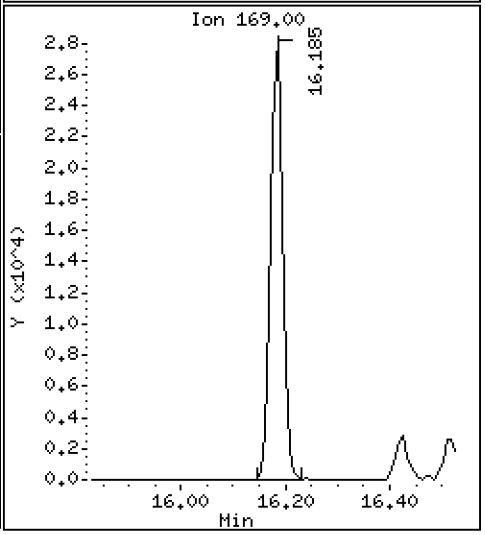


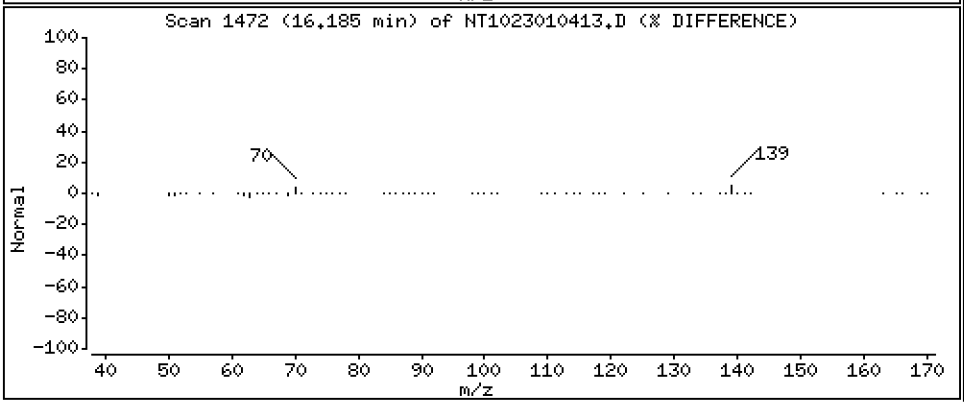












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

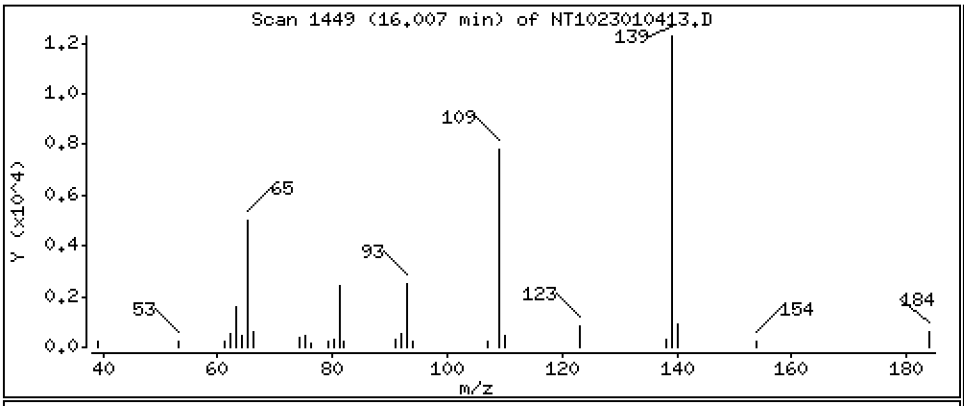
Operator: VTS

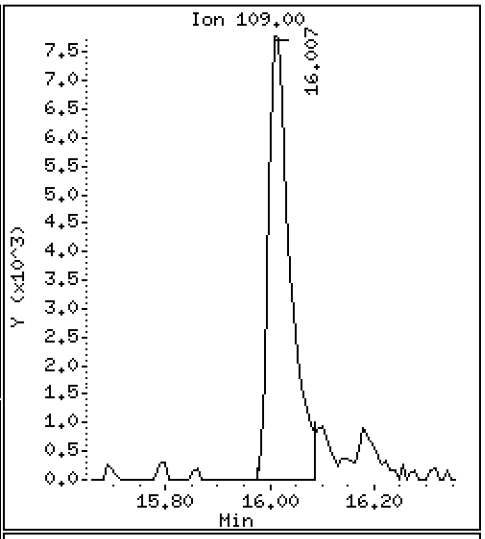
Column phase: ZB-5msi

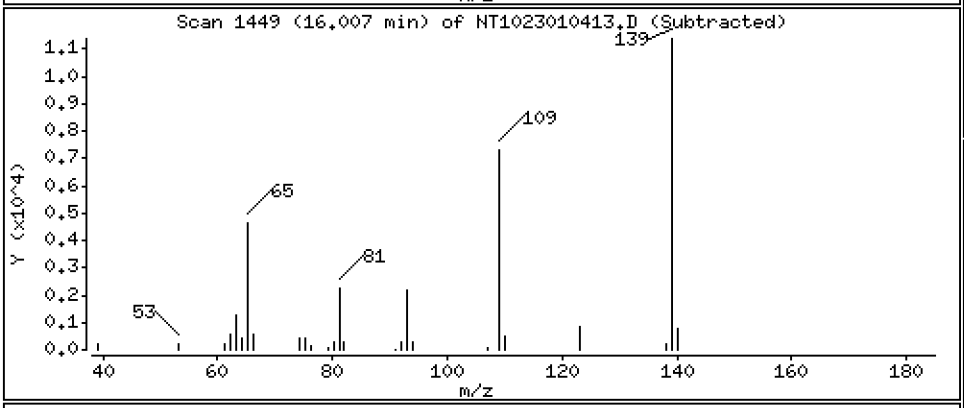
Column diameter: 0.25

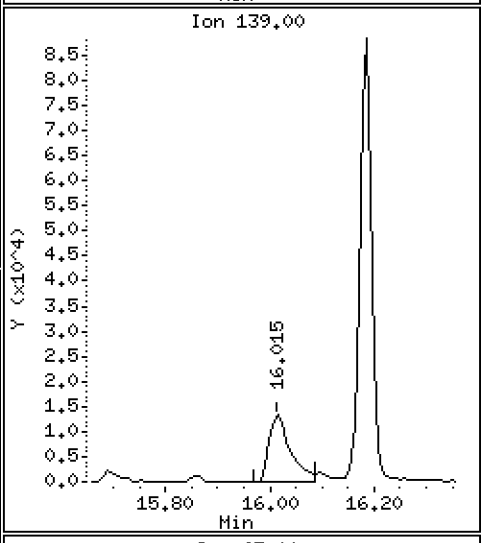
47 4-Nitrophenol

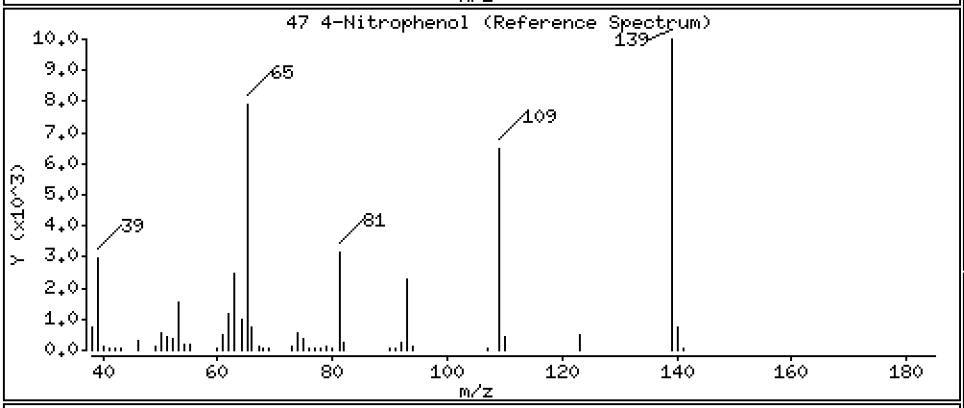
Concentration: 3.882 ug/mL

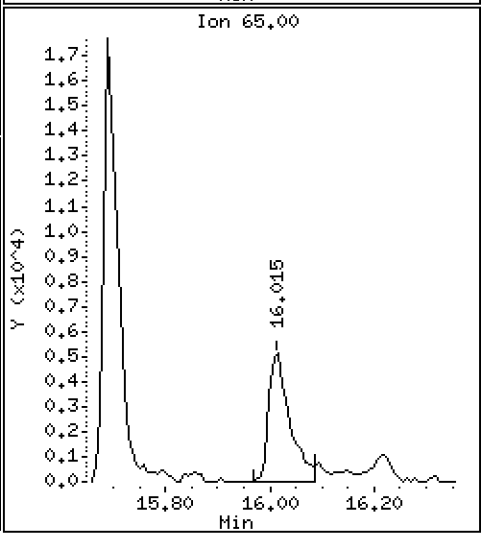


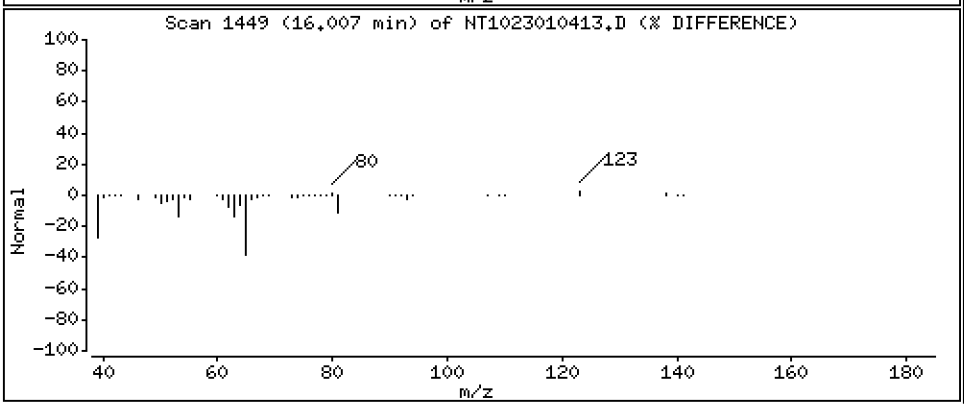












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

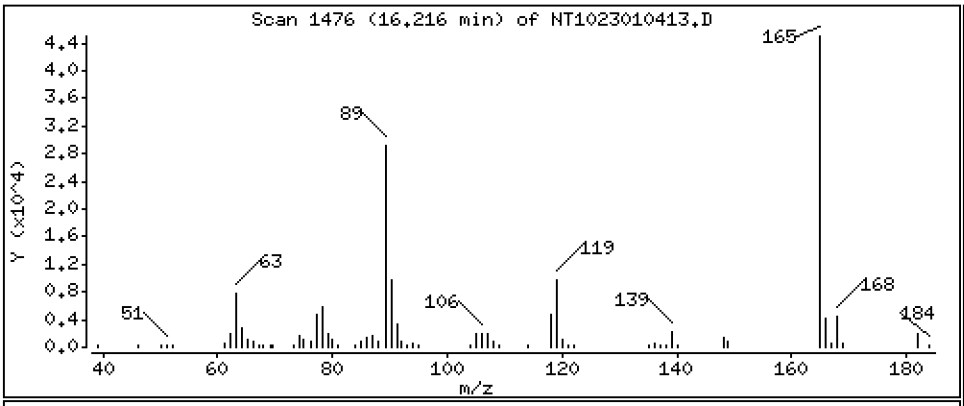
Operator: VTS

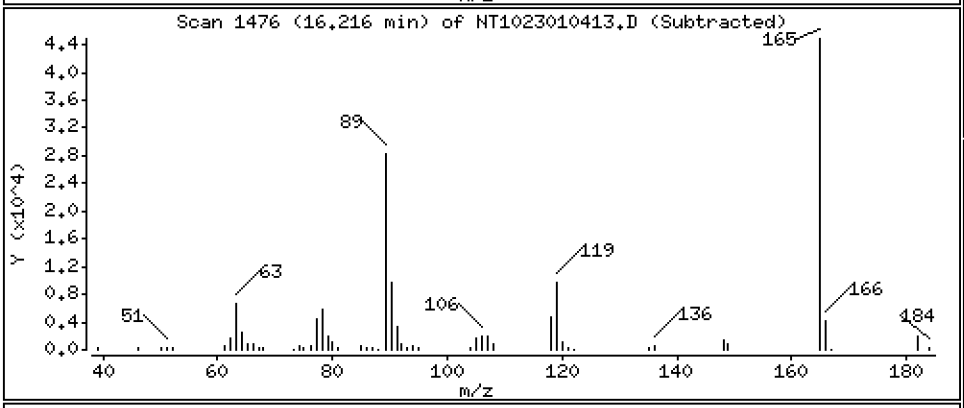
Column phase: ZB-5msi

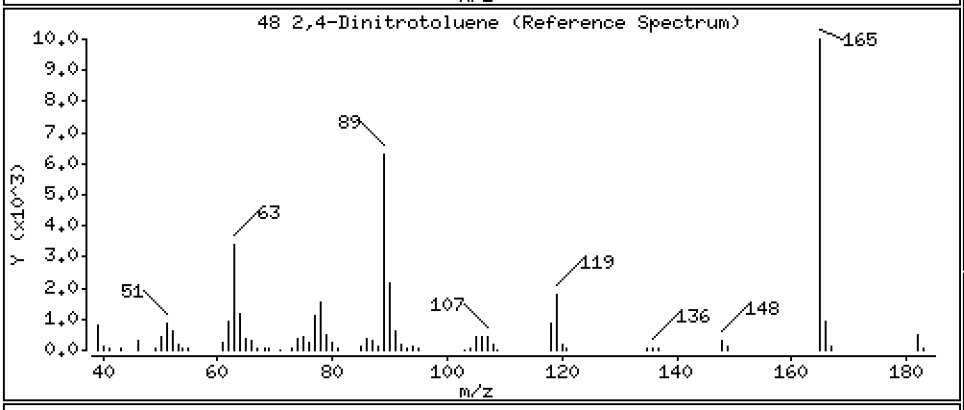
Column diameter: 0.25

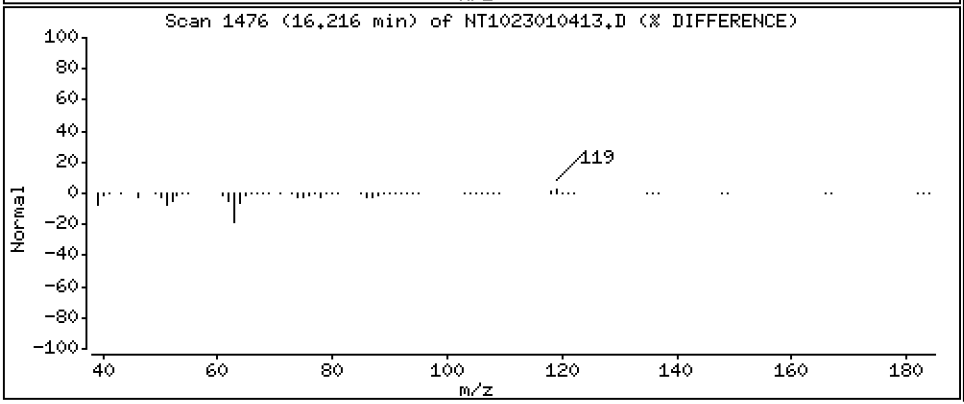
48 2,4-Dinitrotoluene

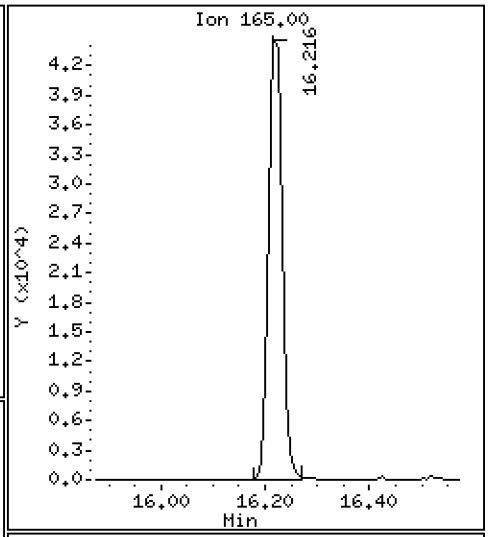
Concentration: 5.337 ug/mL

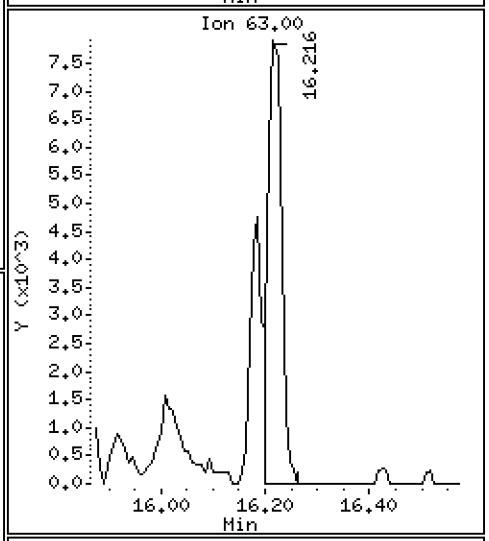


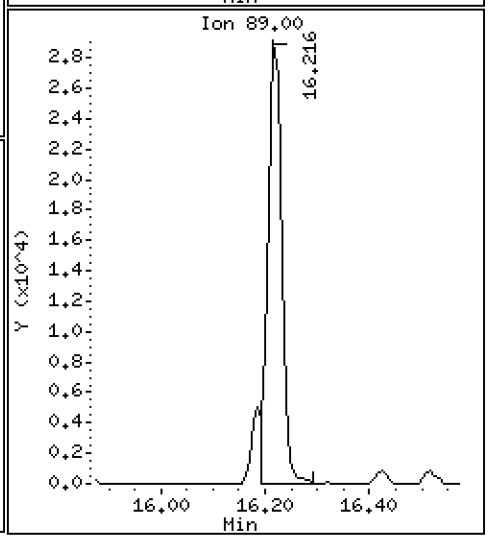












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

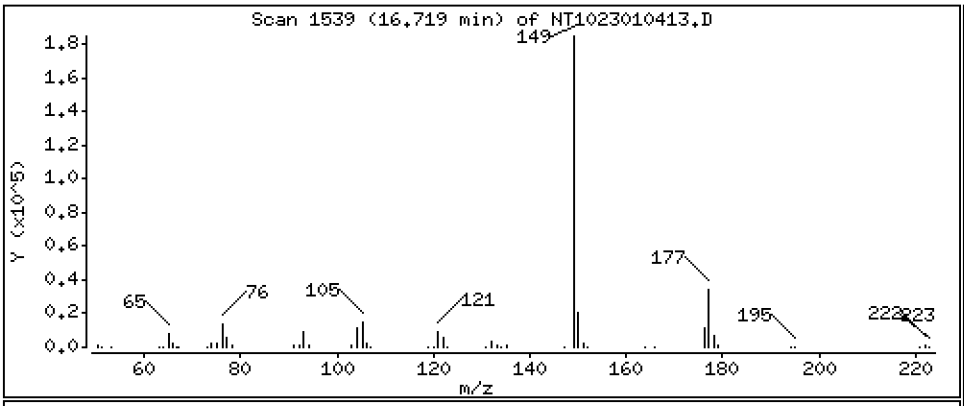
Operator: VTS

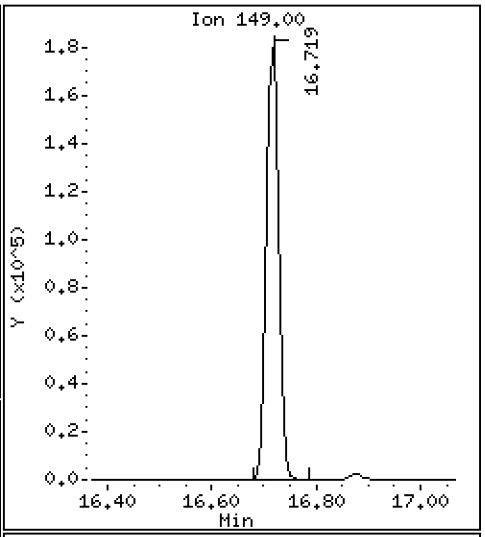
Column phase: ZB-5msi

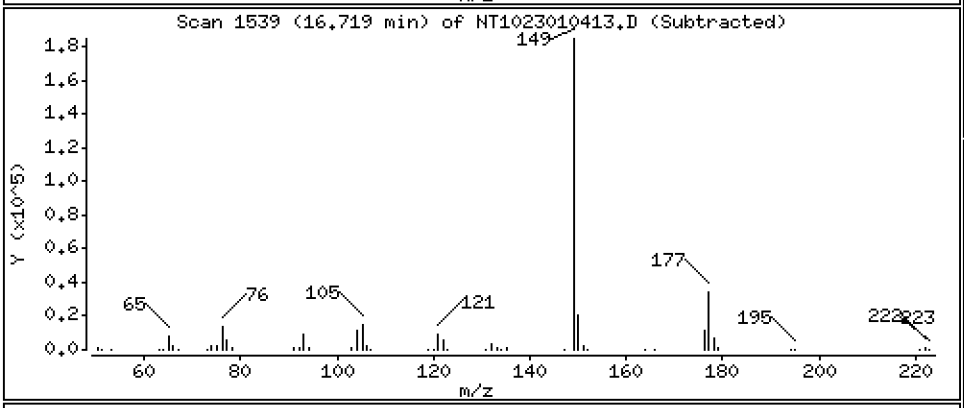
Column diameter: 0.25

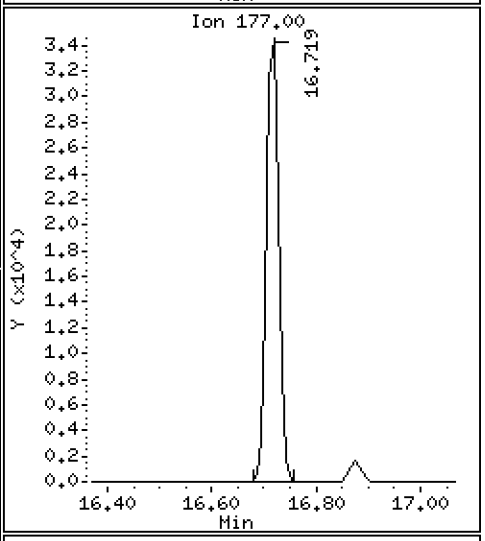
50 Diethylphthalate

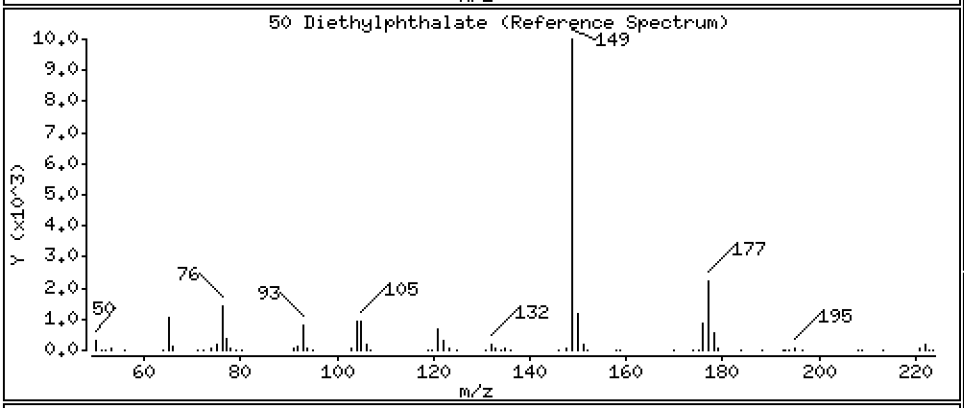
Concentration: 5.604 ug/mL

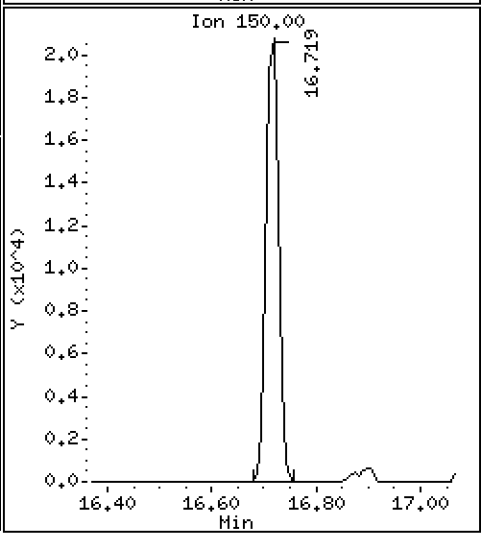


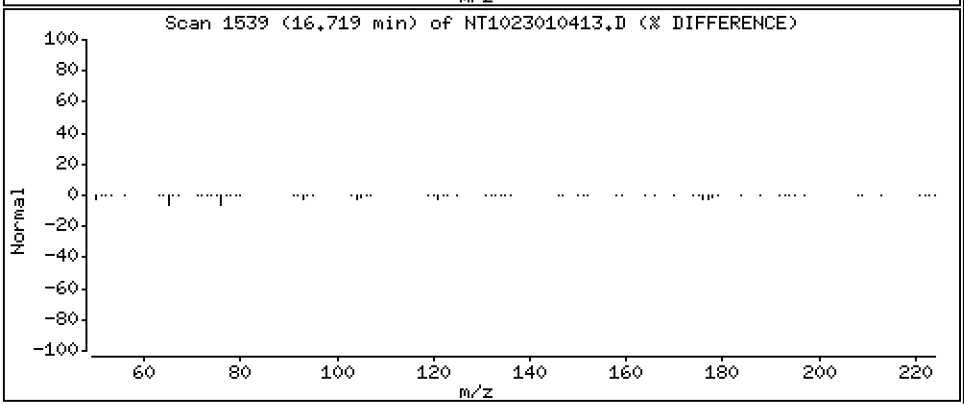












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

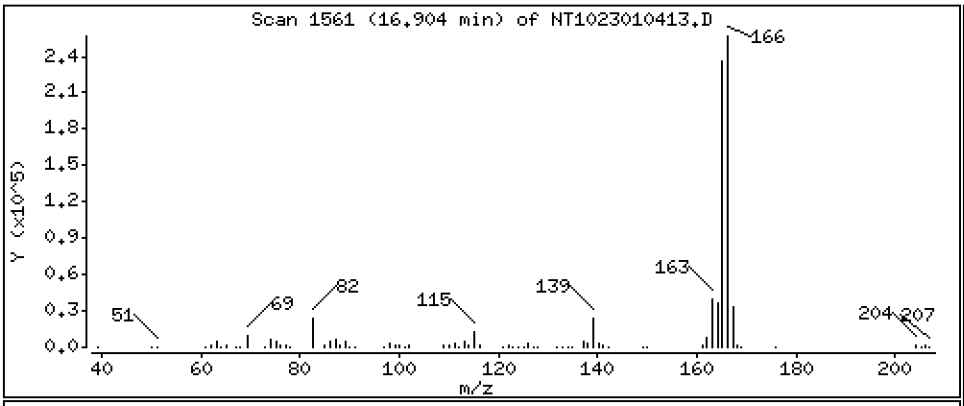
Operator: VTS

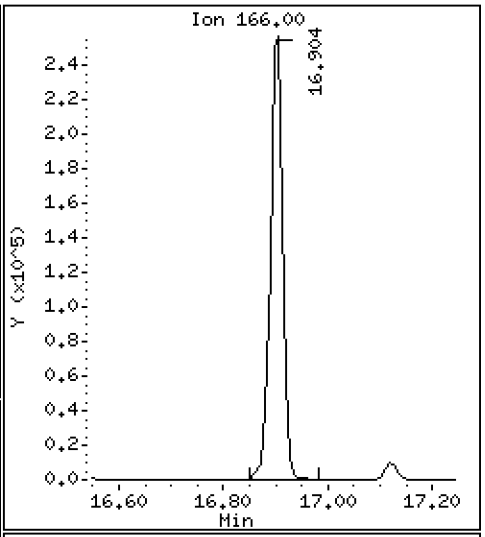
Column phase: ZB-5msi

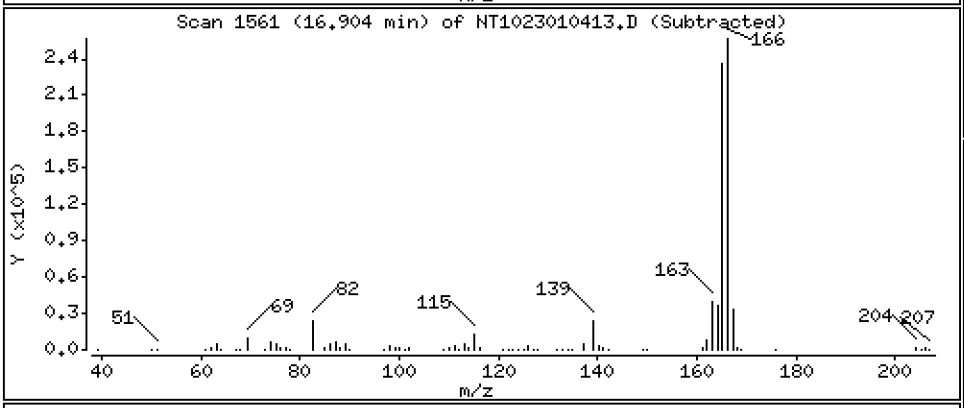
Column diameter: 0.25

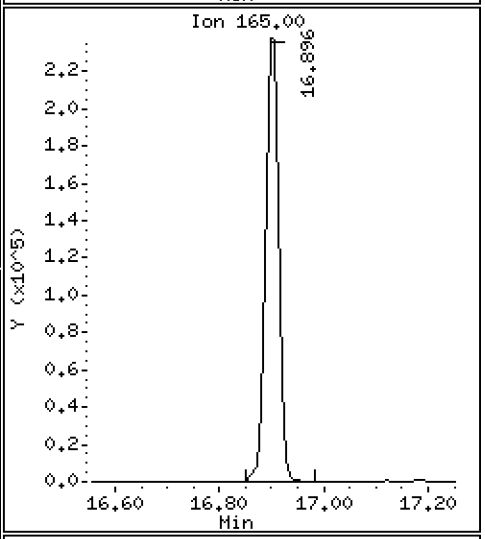
49 Fluorene

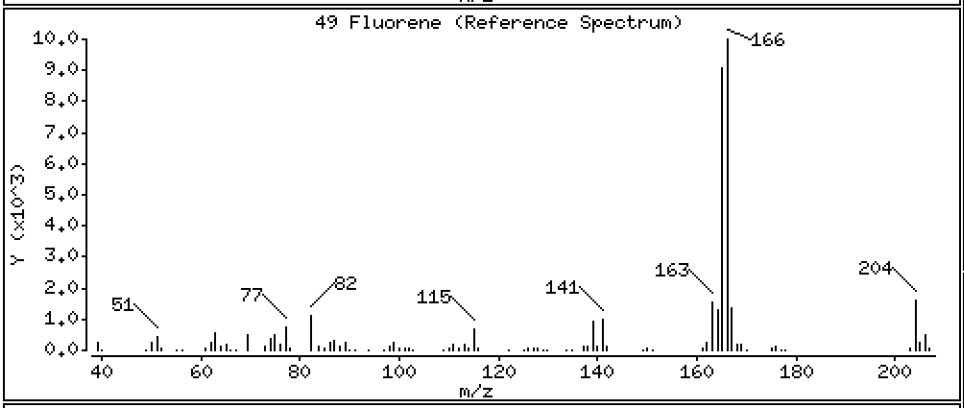
Concentration: 5.127 ug/mL

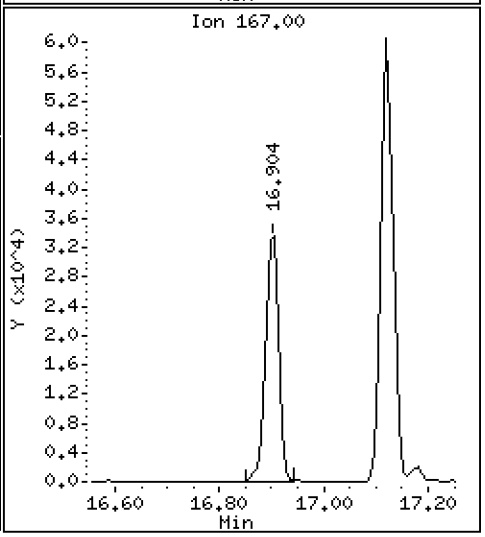


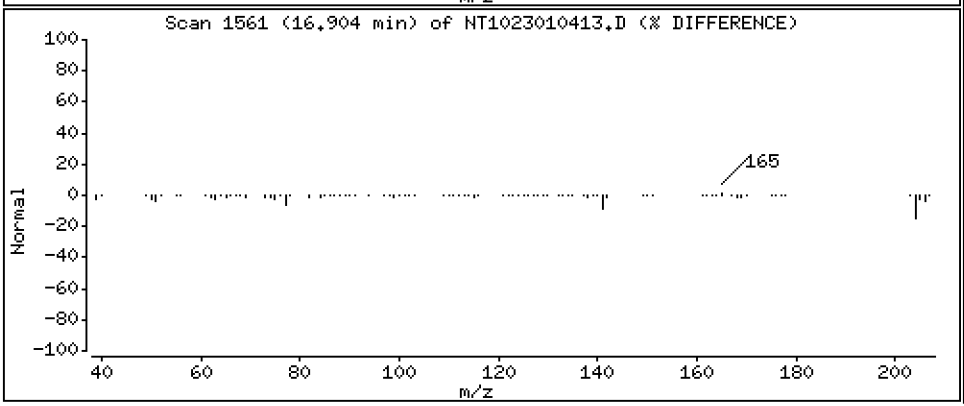












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

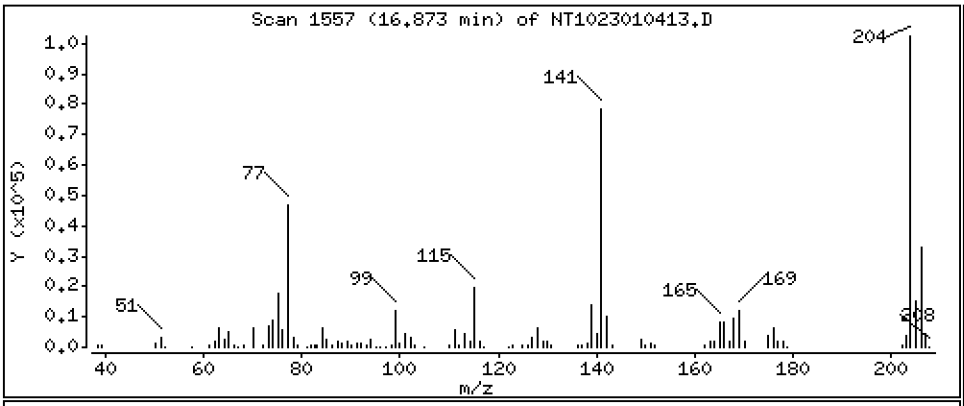
Operator: VTS

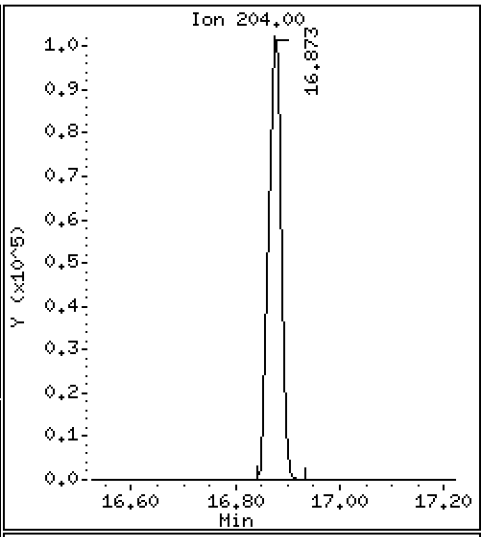
Column phase: ZB-5msi

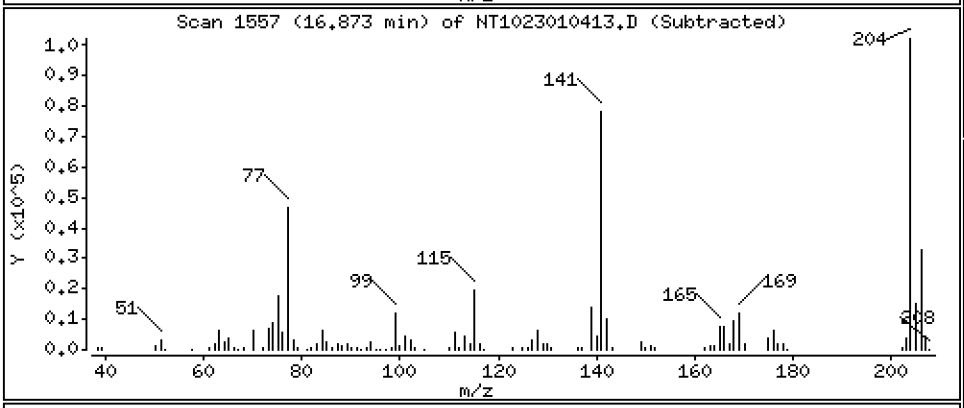
Column diameter: 0.25

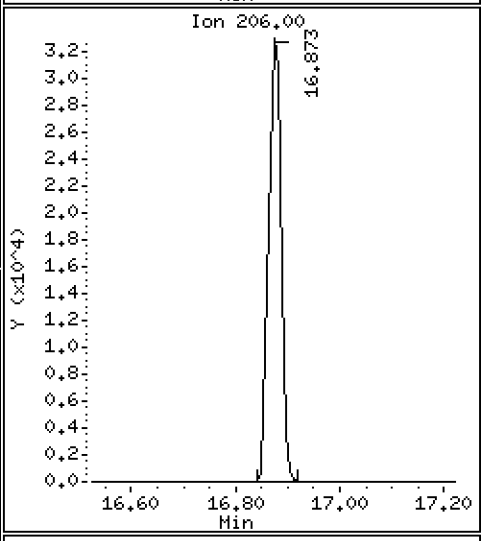
51 4-Chlorophenyl-phenylether

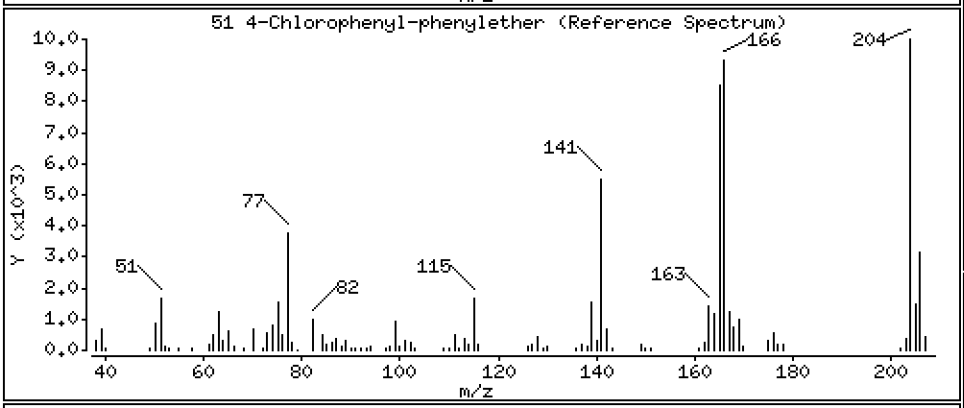
Concentration: 4.890 ug/mL

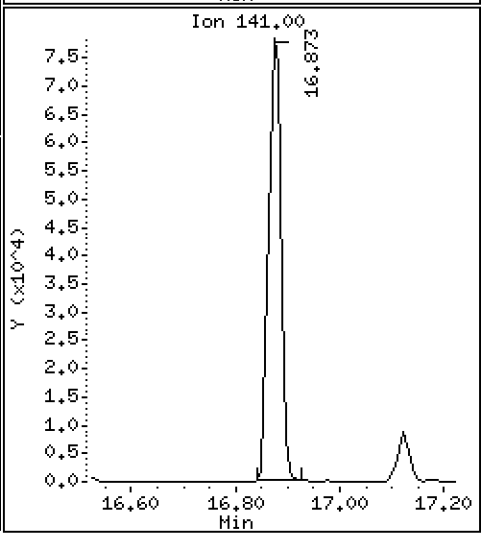


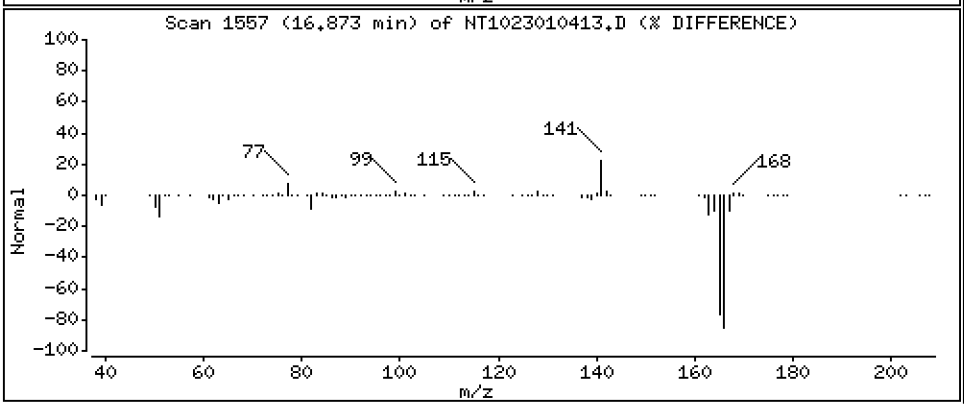












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

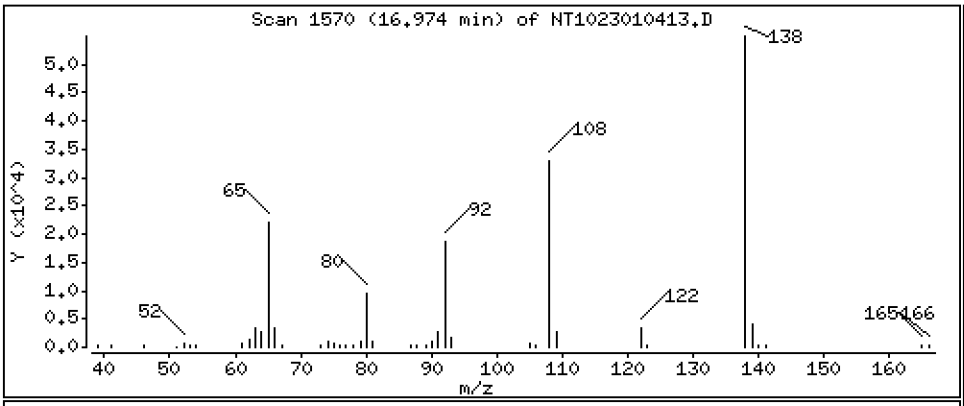
Operator: VTS

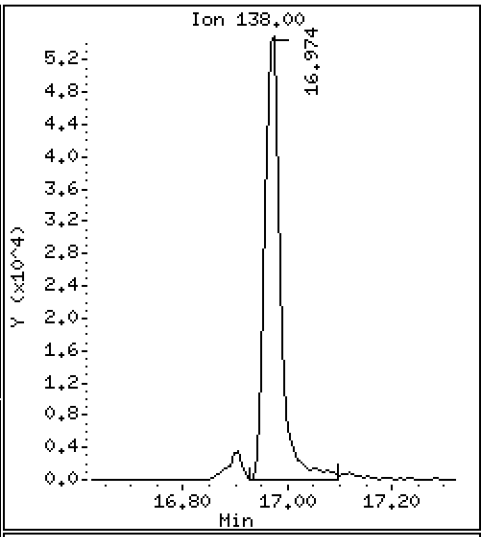
Column phase: ZB-5msi

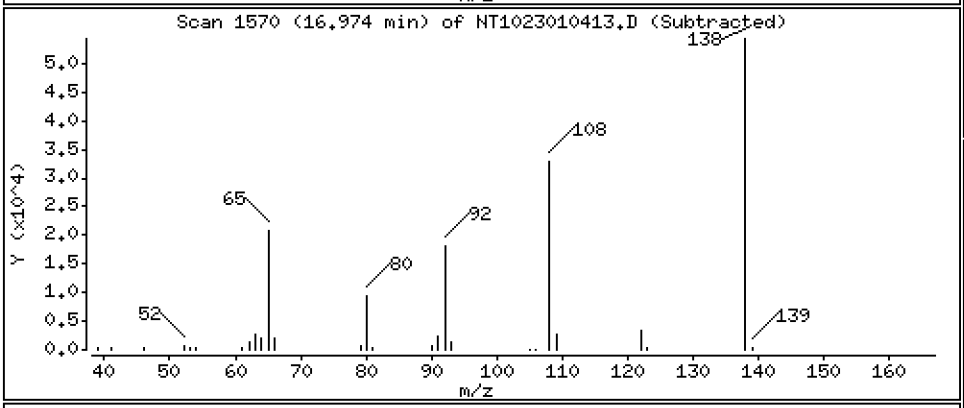
Column diameter: 0.25

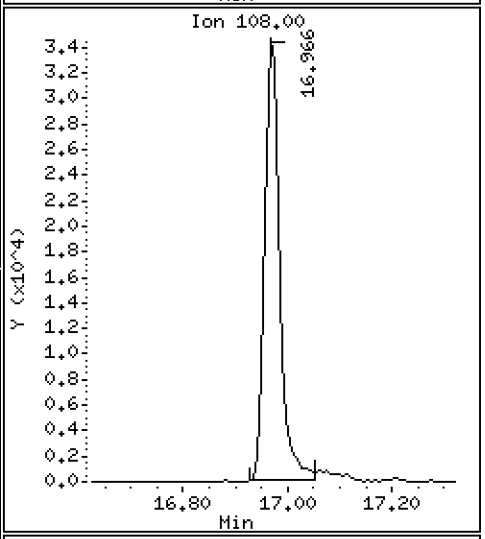
52 4-Nitroaniline

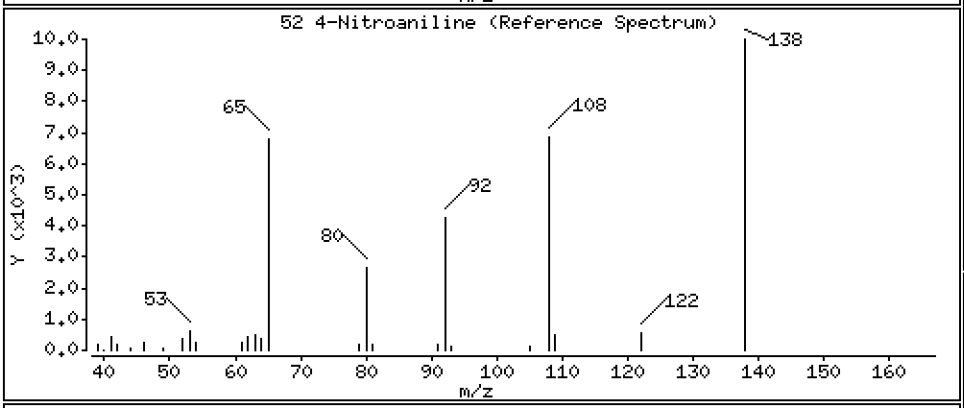
Concentration: 5.363 ug/mL

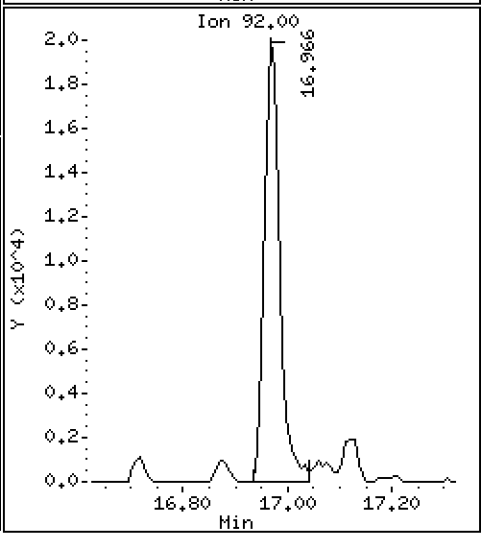


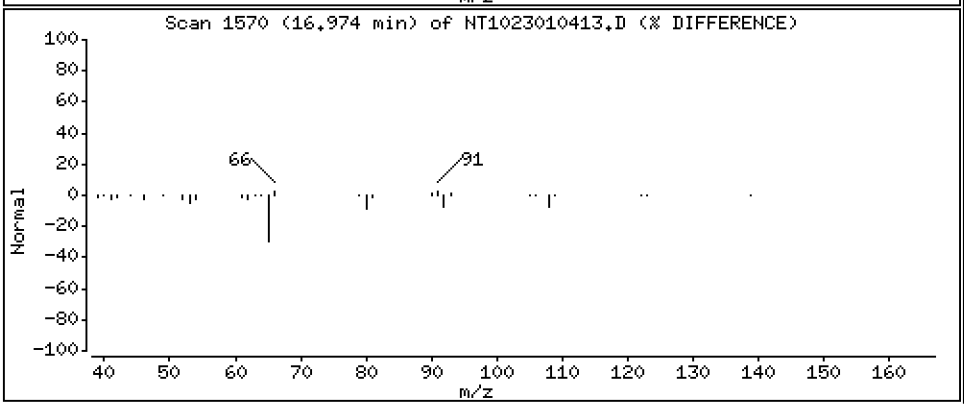












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

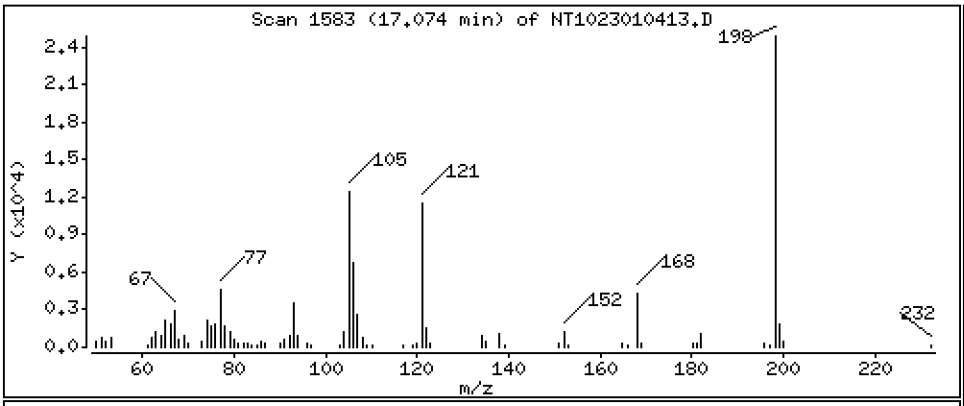
Operator: VTS

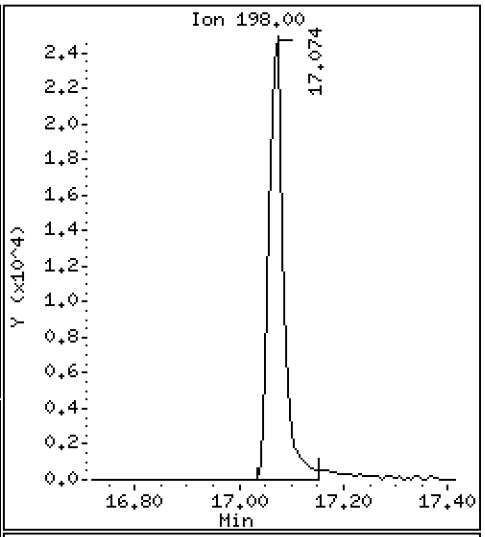
Column phase: ZB-5msi

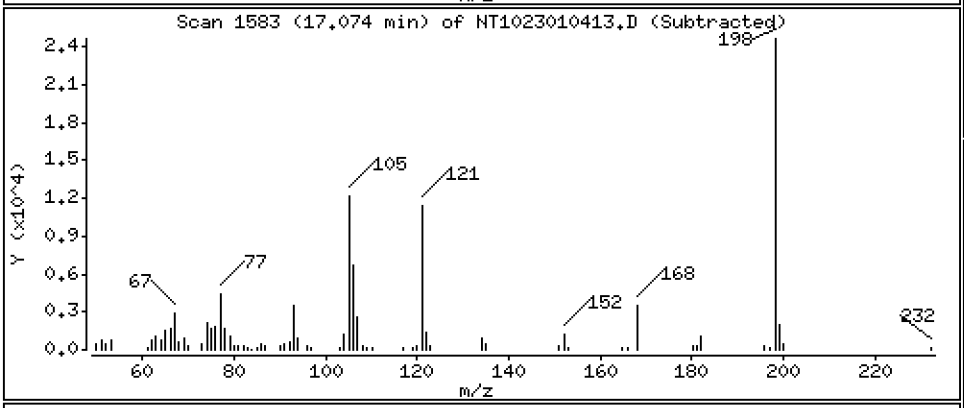
Column diameter: 0.25

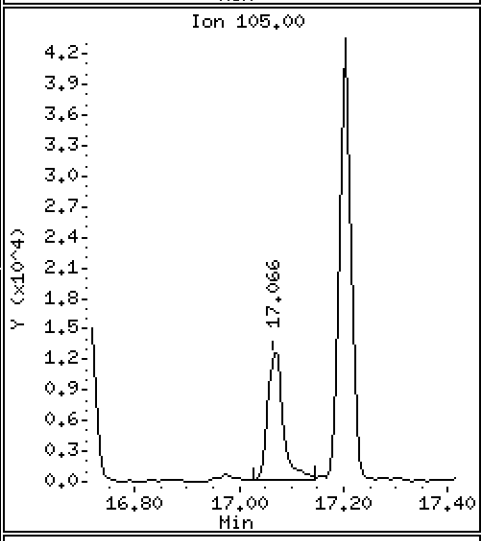
53 4,6-Dinitro-2-methylphenol

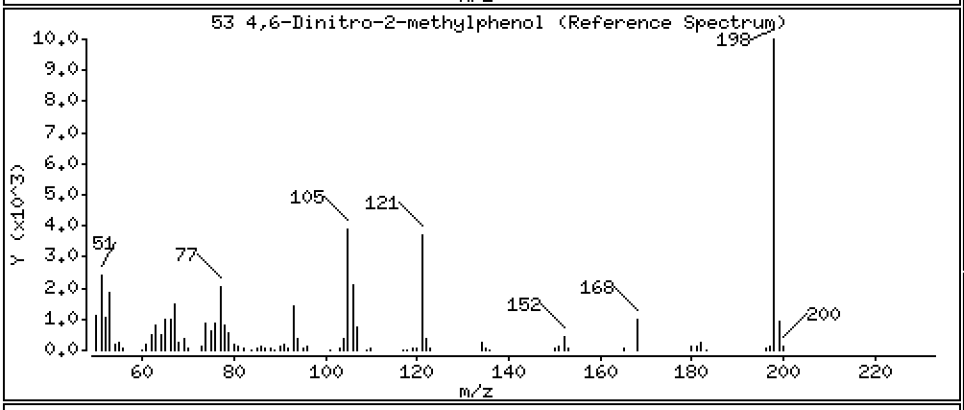
Concentration: 3.808 ug/mL

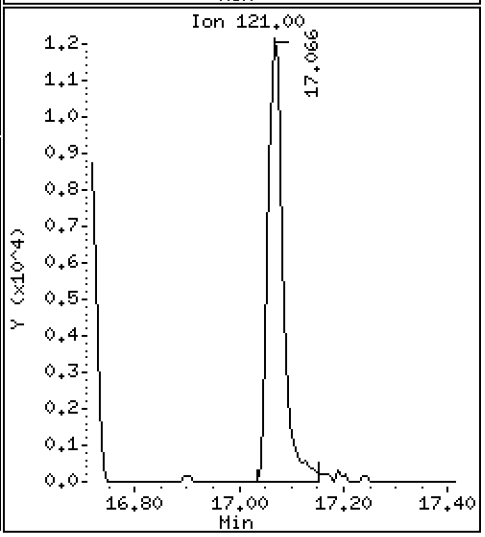


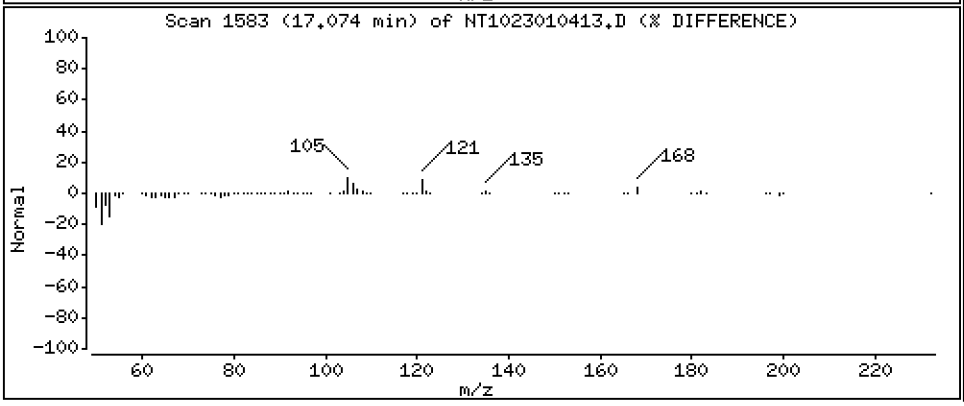












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

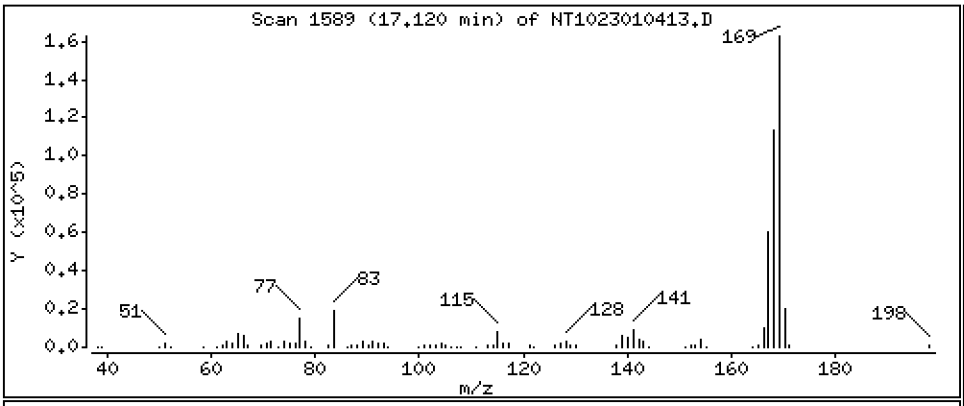
Operator: VTS

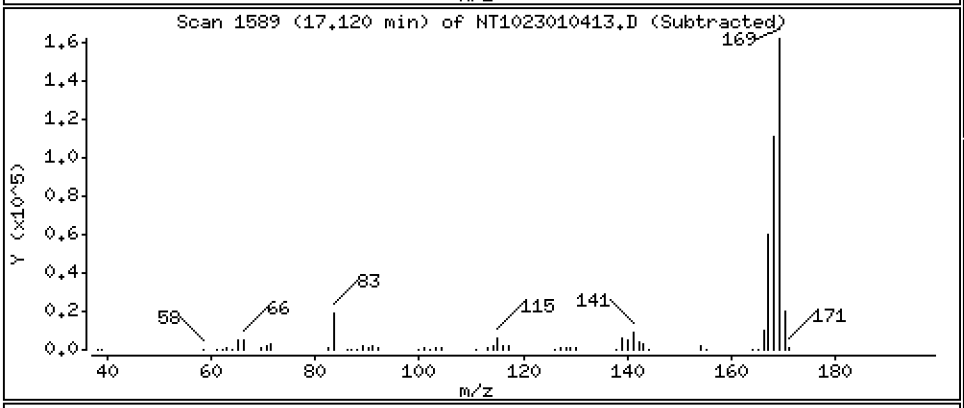
Column phase: ZB-5msi

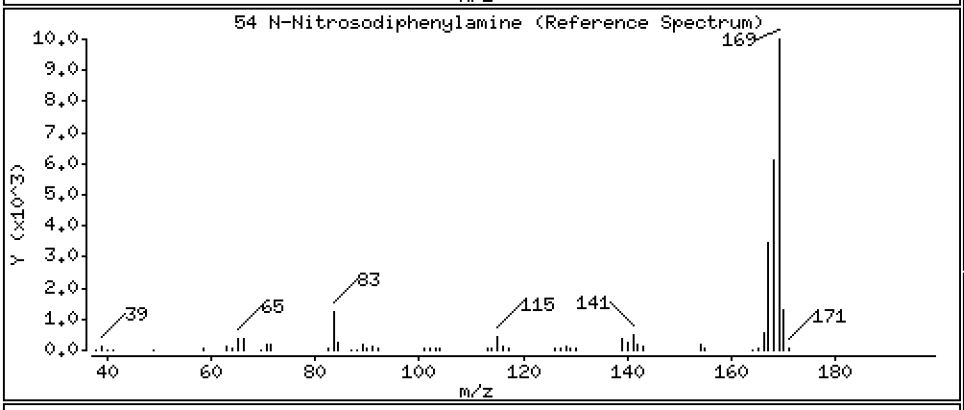
Column diameter: 0.25

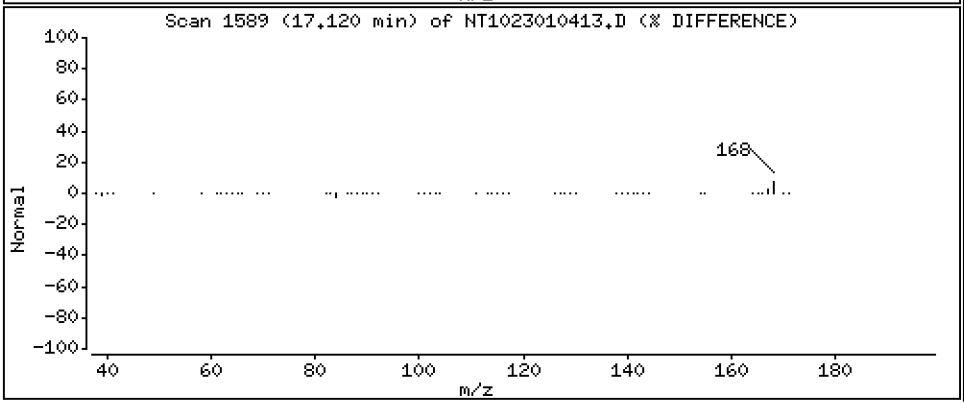
54 N-Nitrosodiphenylamine

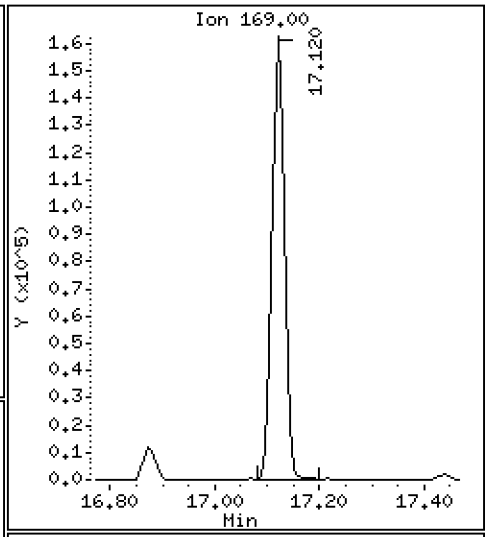
Concentration: 4.692 ug/mL

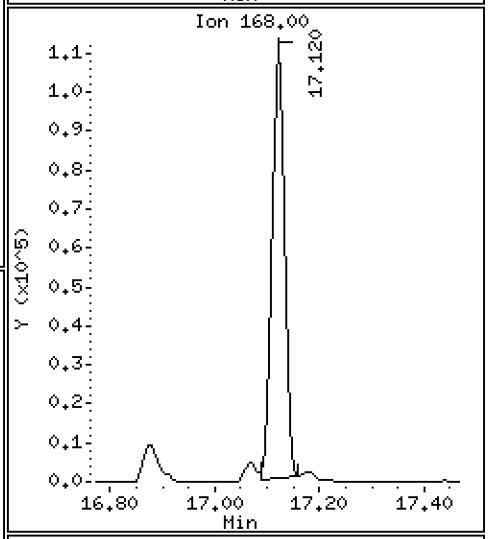


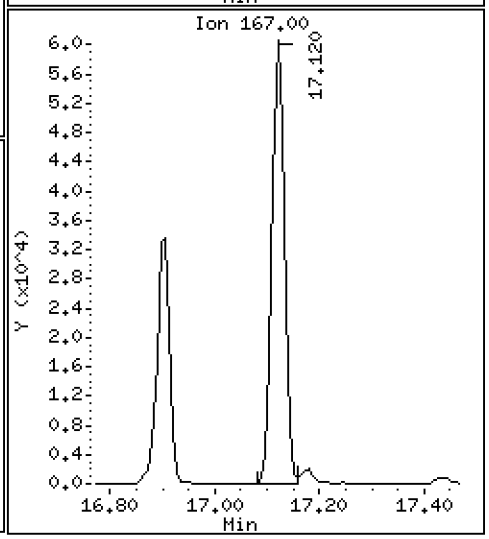












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

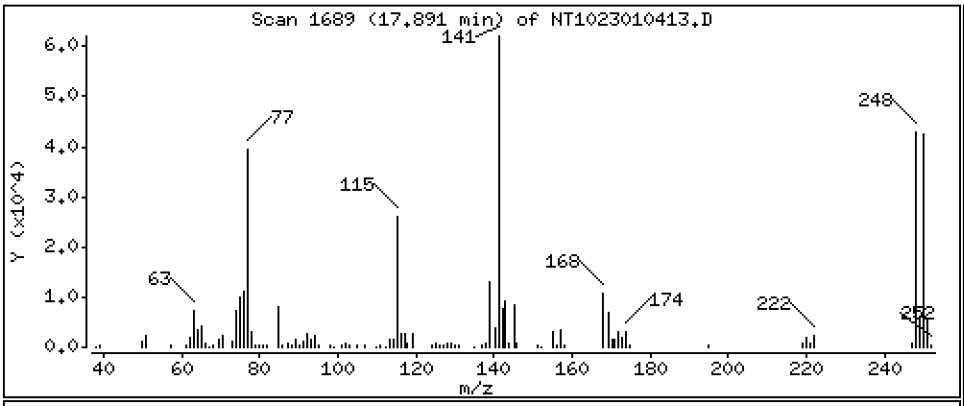
Operator: VTS

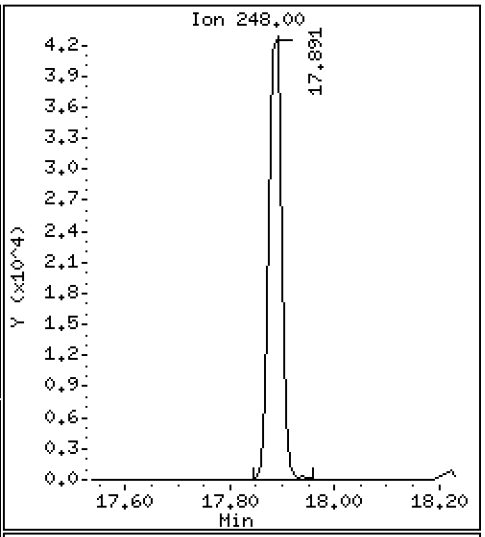
Column phase: ZB-5msi

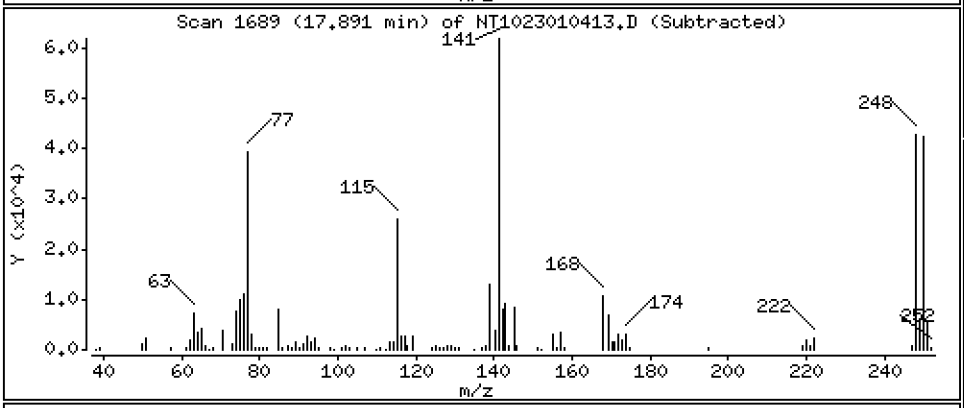
Column diameter: 0.25

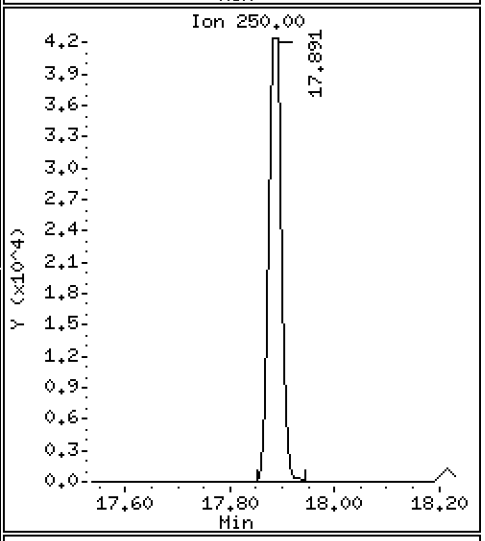
56 4-Bromophenyl-phenylether

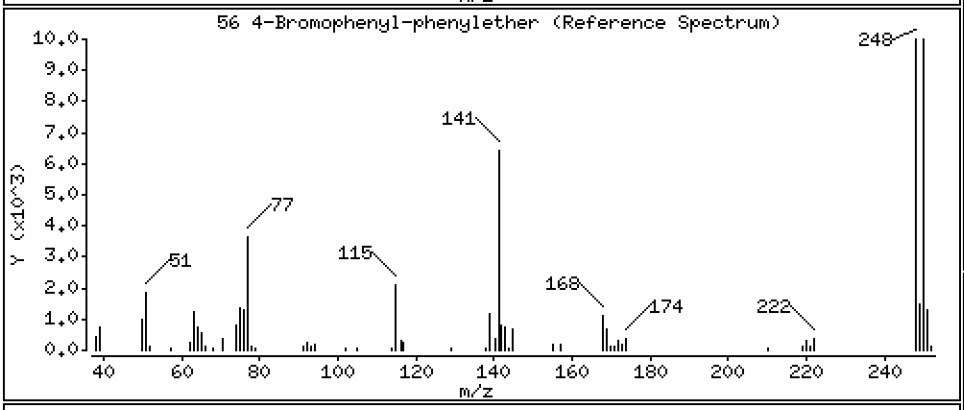
Concentration: 4.854 ug/mL

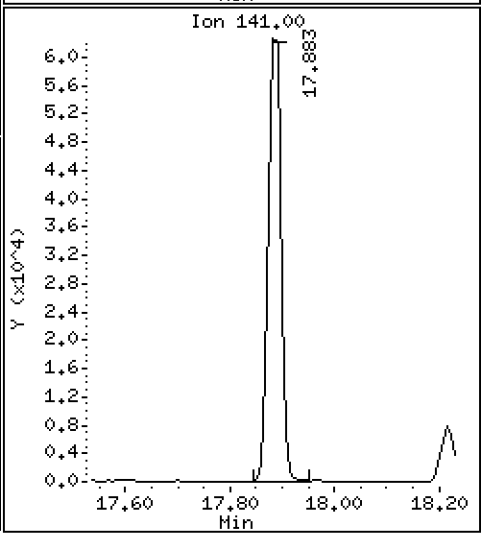


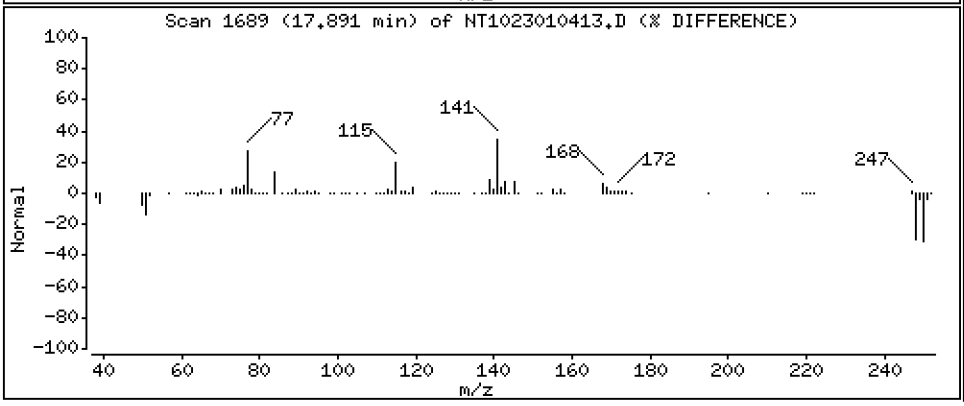












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

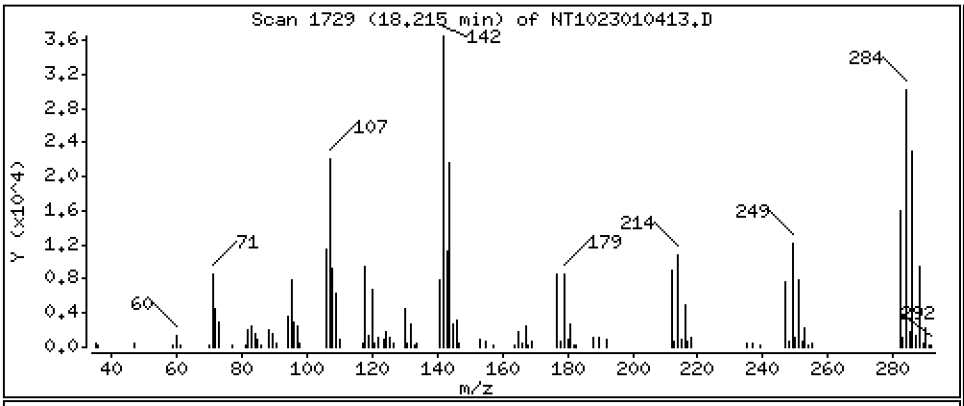
Operator: VTS

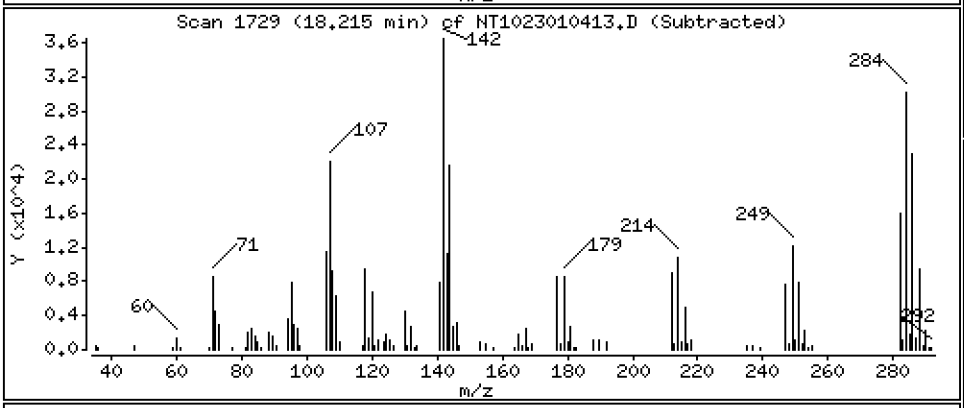
Column phase: ZB-5msi

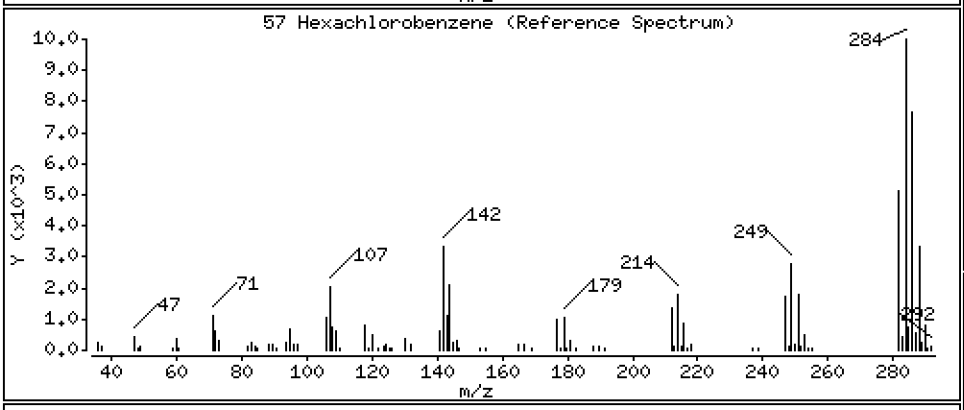
Column diameter: 0.25

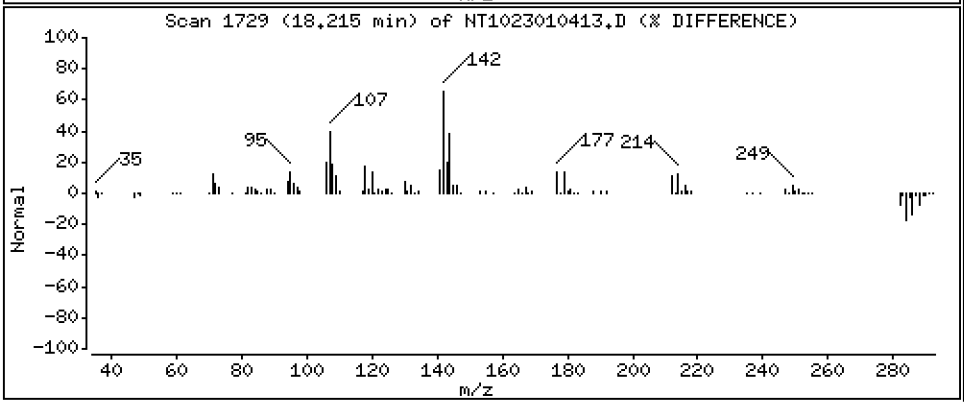
57 Hexachlorobenzene

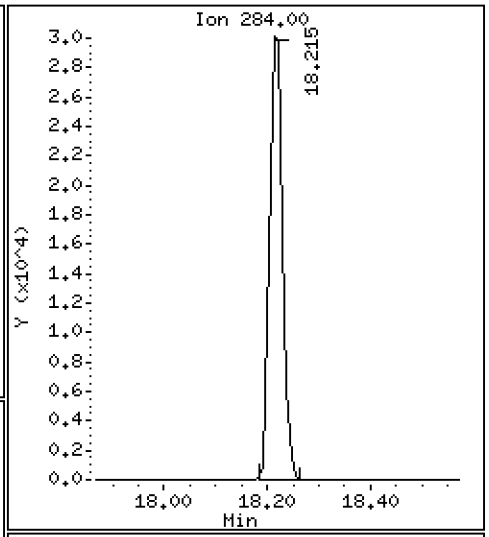
Concentration: 4.101 ug/mL

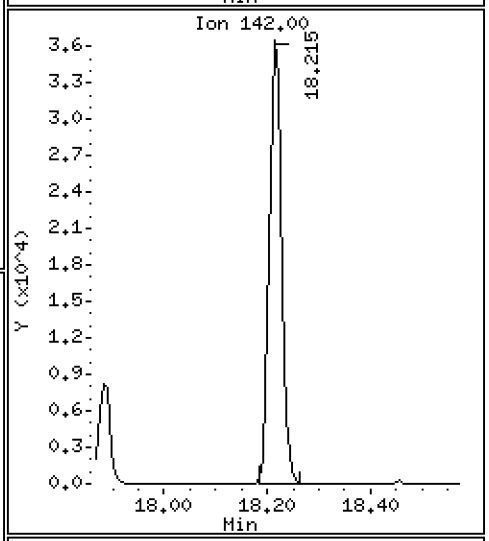


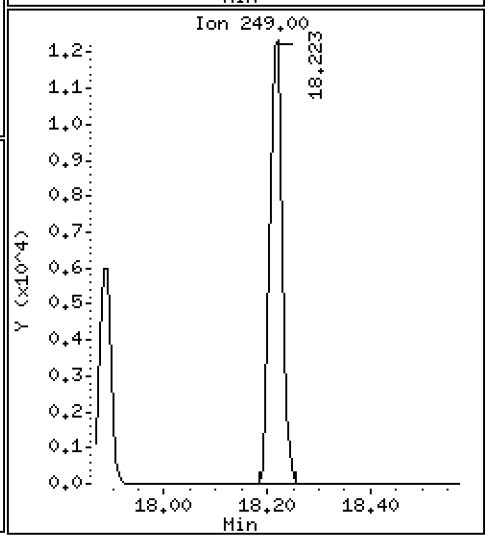












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

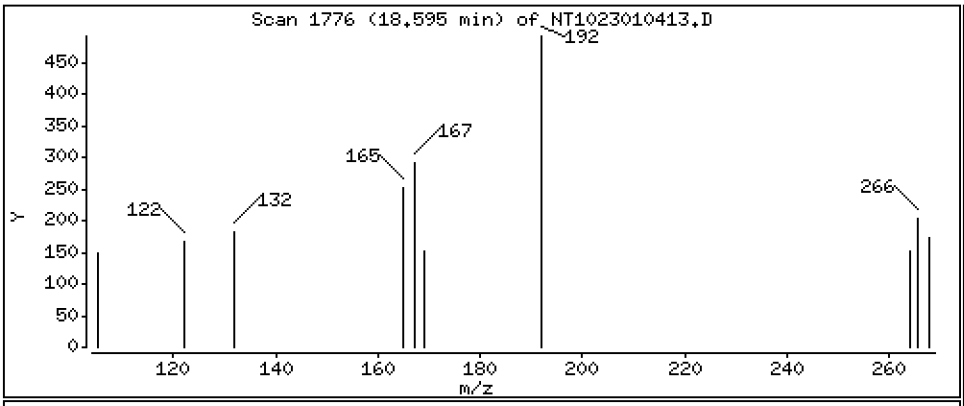
Operator: VTS

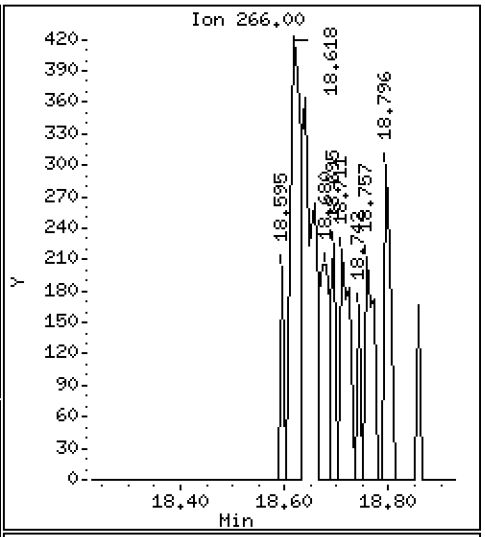
Column phase: ZB-5msi

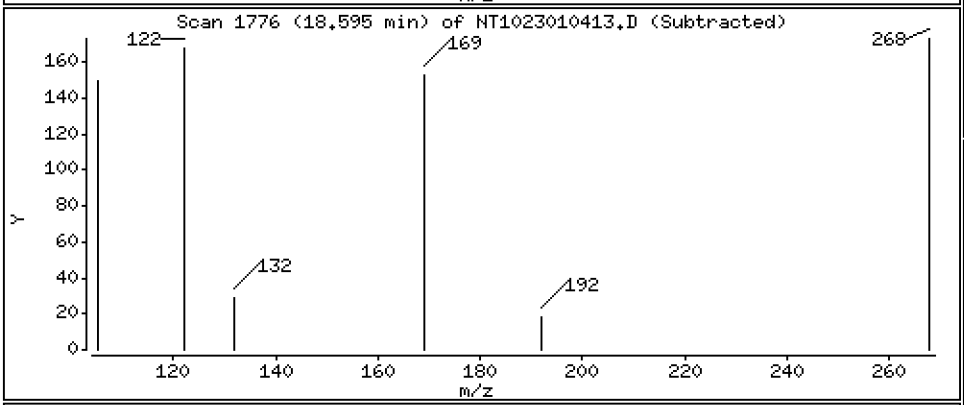
Column diameter: 0.25

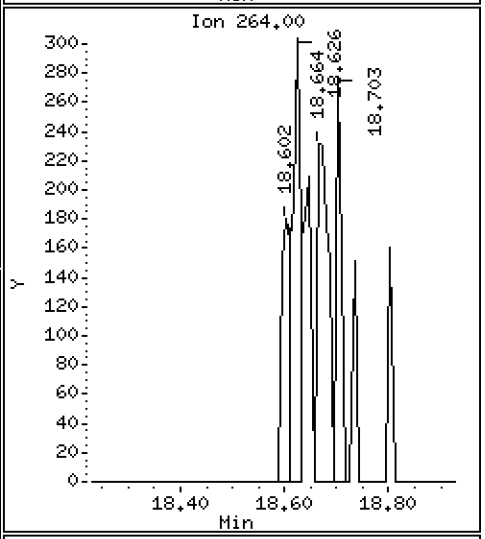
58 Pentachlorophenol

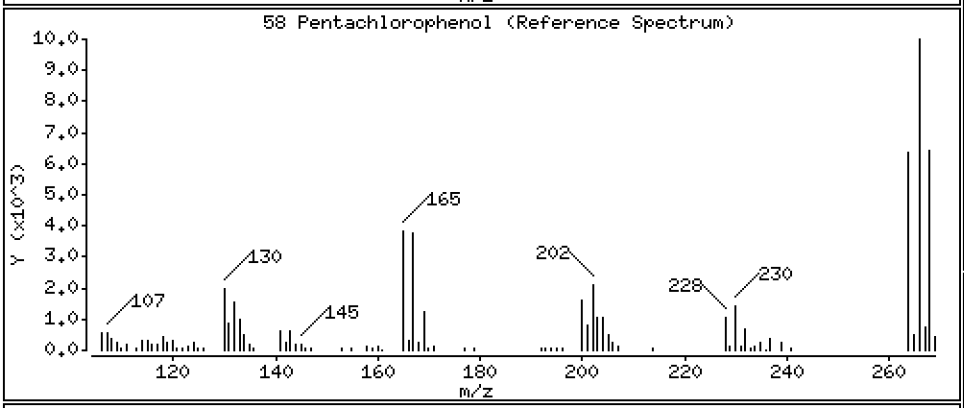
Concentration: 0.04497 ug/mL

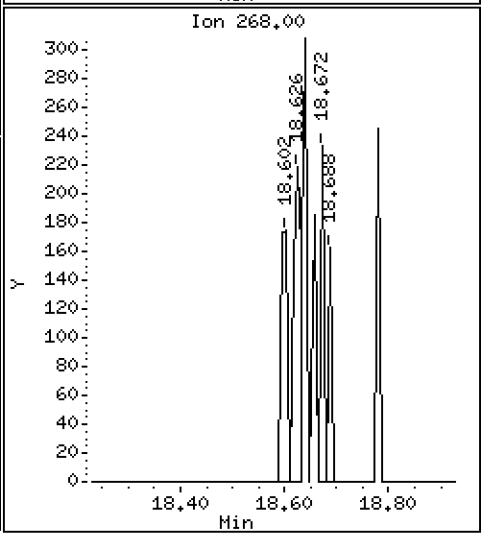


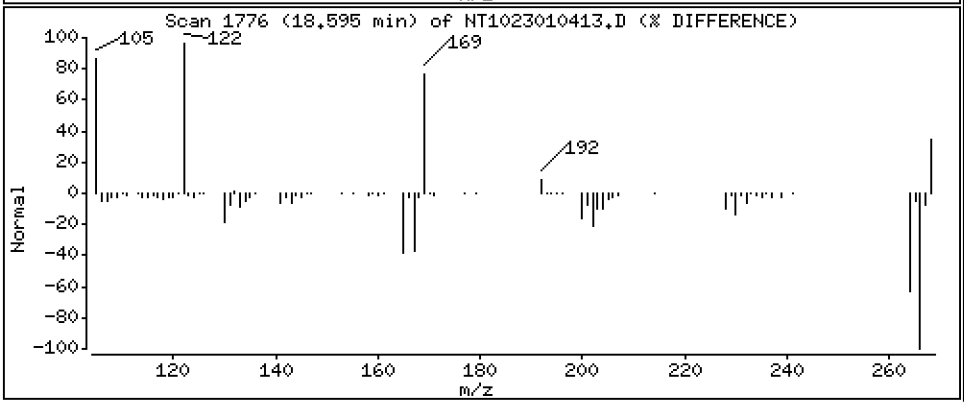












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

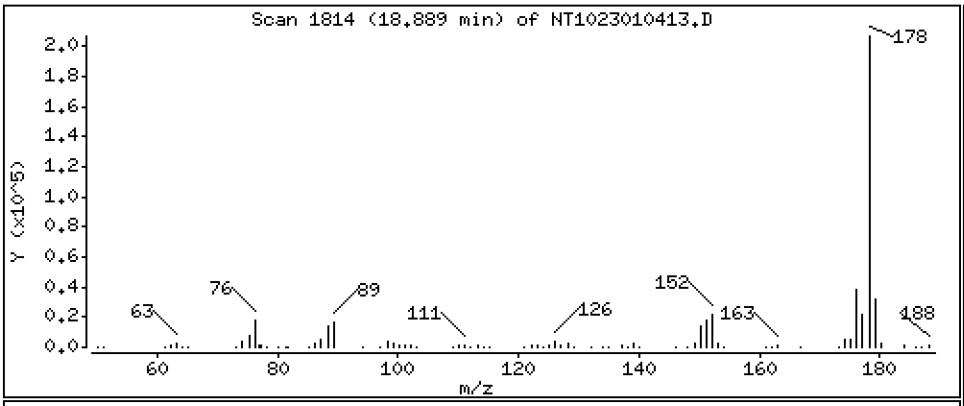
Operator: VTS

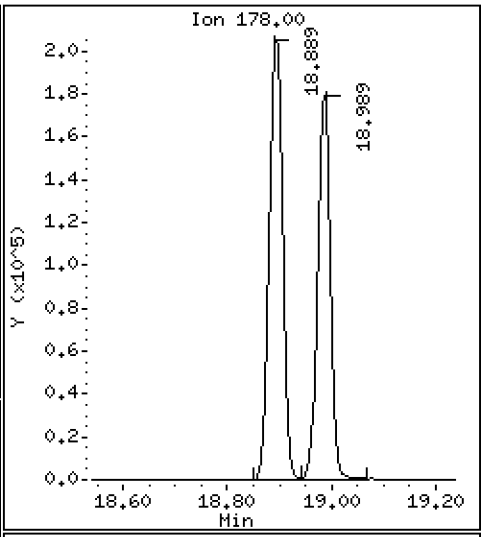
Column phase: ZB-5msi

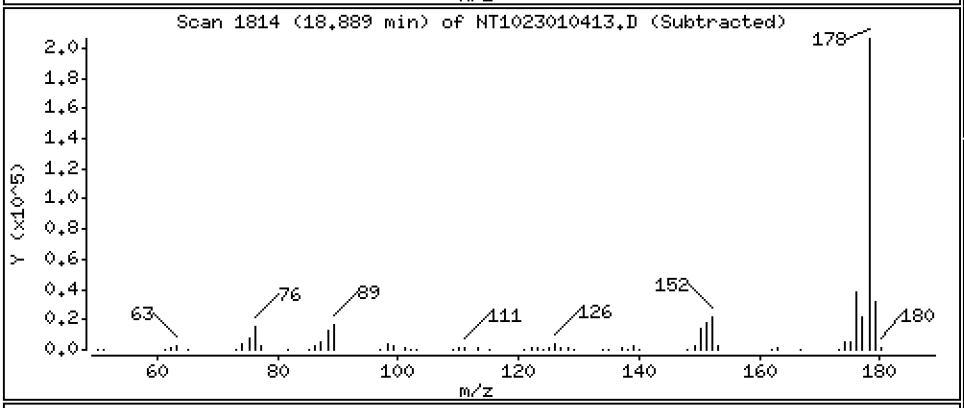
Column diameter: 0.25

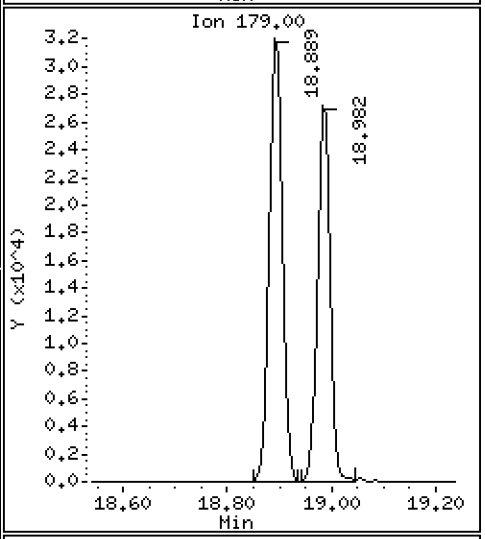
60 Phenanthrene

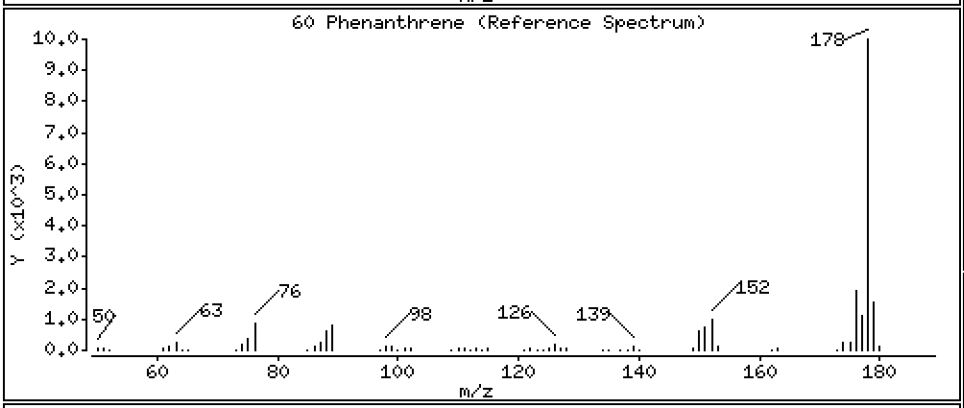
Concentration: 5.025 ug/mL

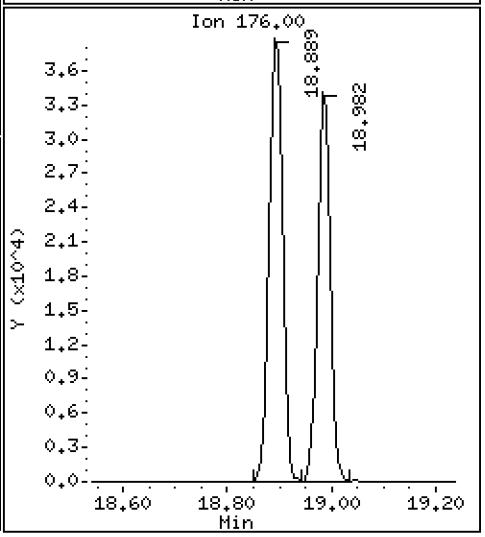


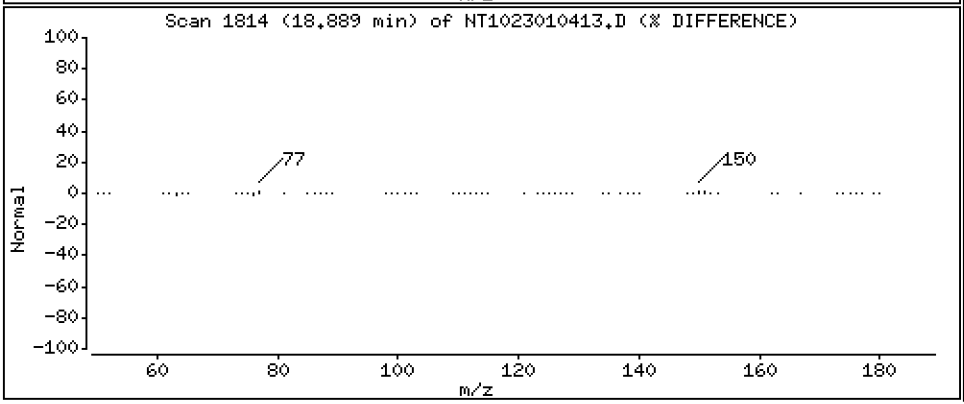












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

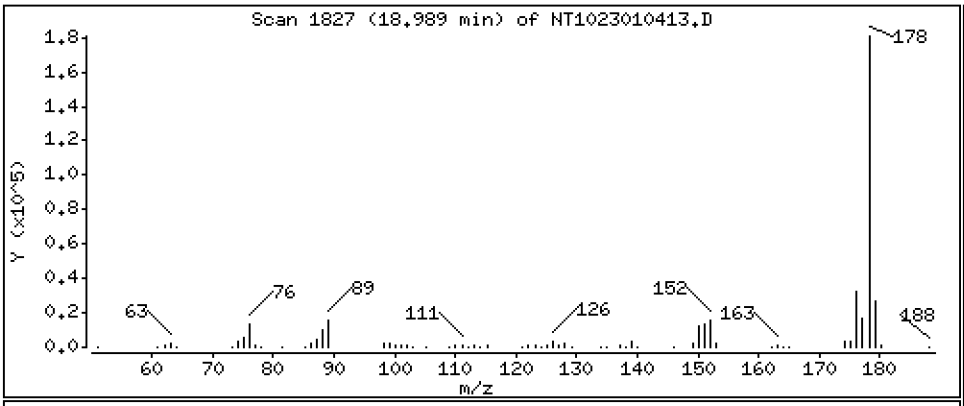
Operator: VTS

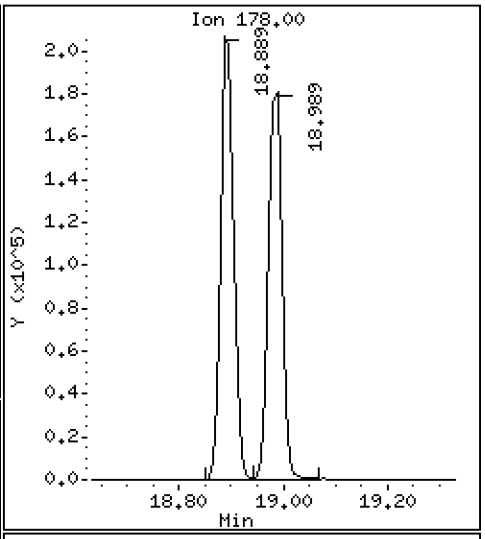
Column phase: ZB-5msi

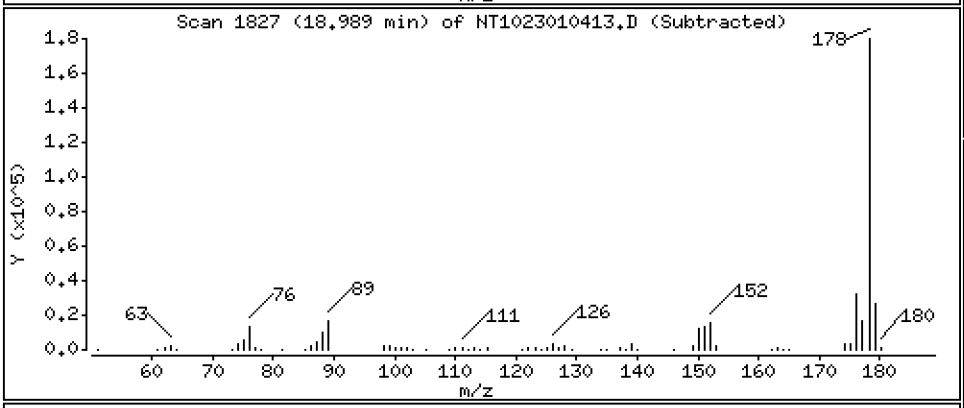
Column diameter: 0.25

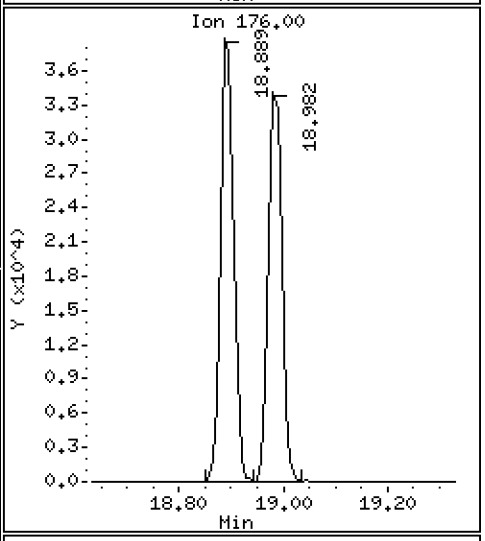
61 Anthracene

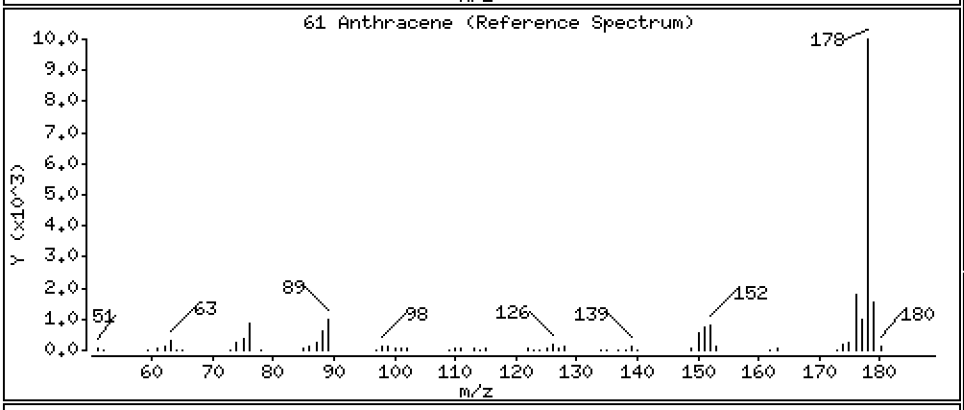
Concentration: 4.542 ug/mL

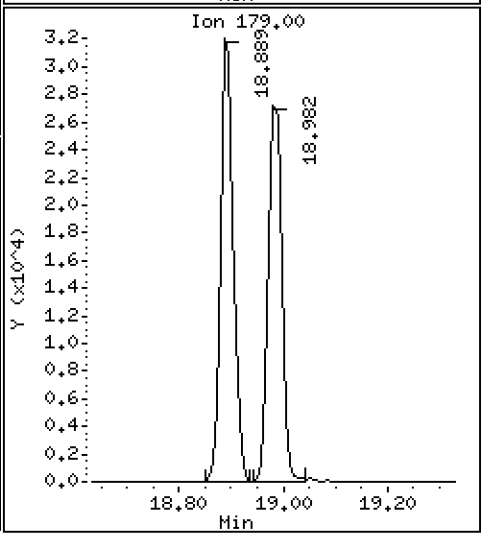


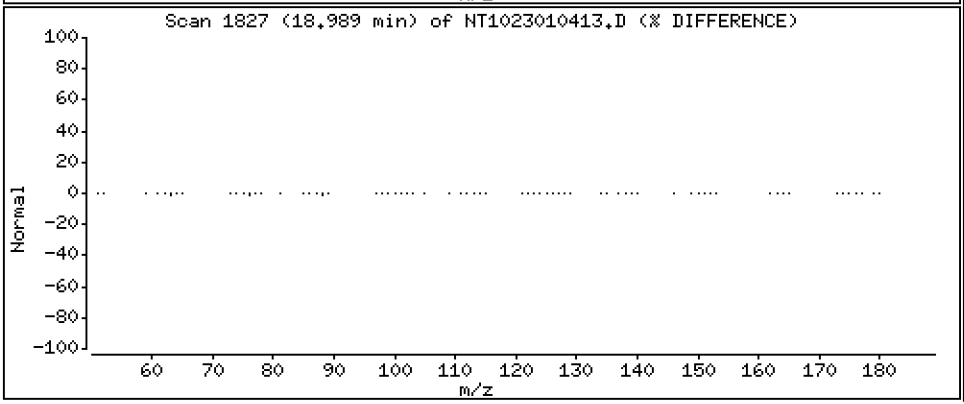












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

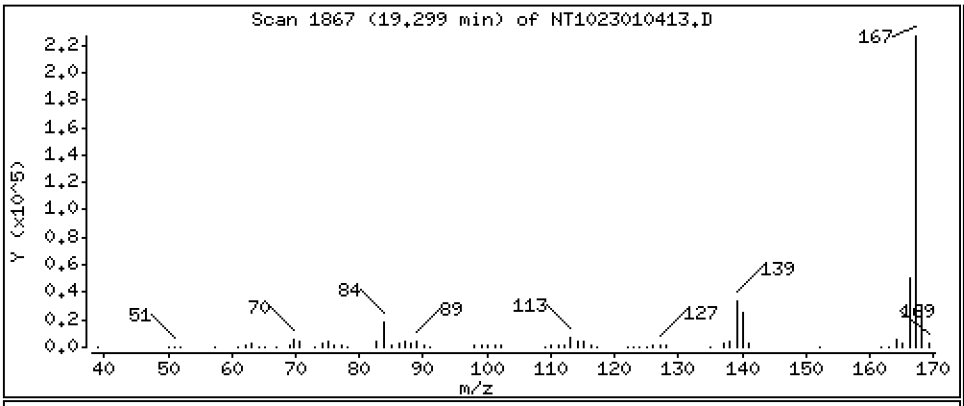
Operator: VTS

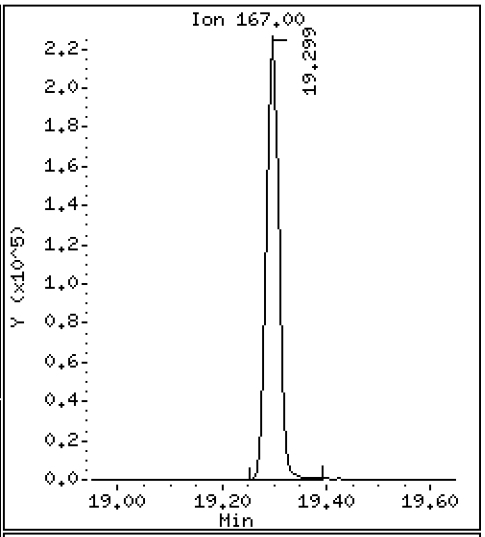
Column phase: ZB-5msi

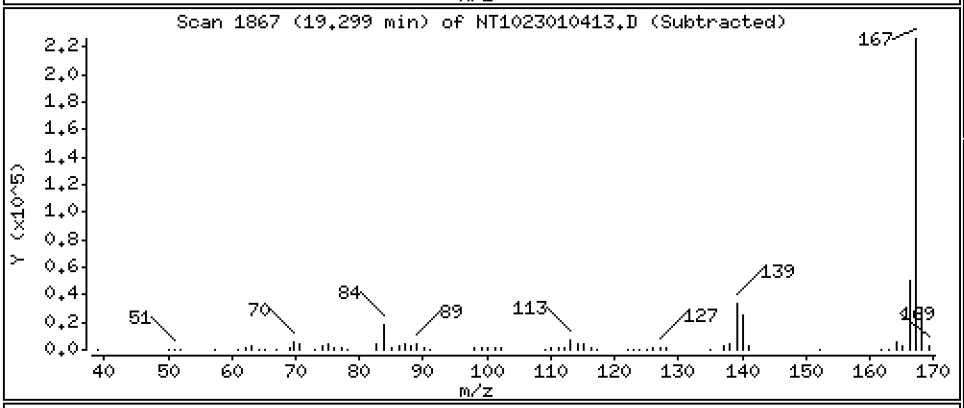
Column diameter: 0.25

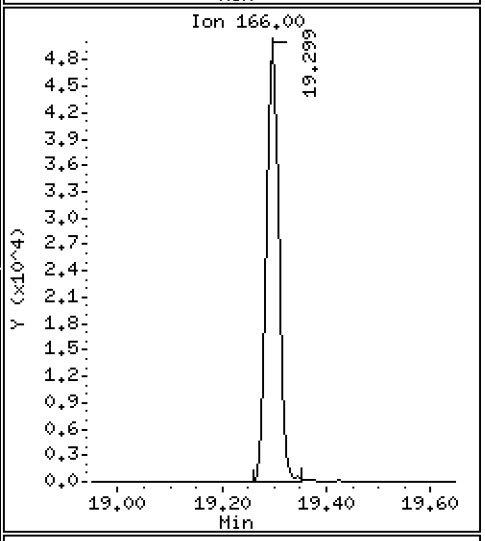
62 Carbazole

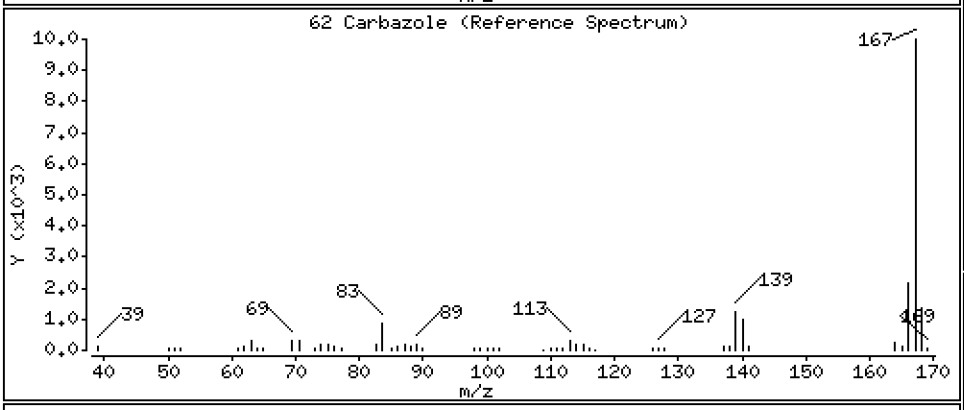
Concentration: 4.823 ug/mL

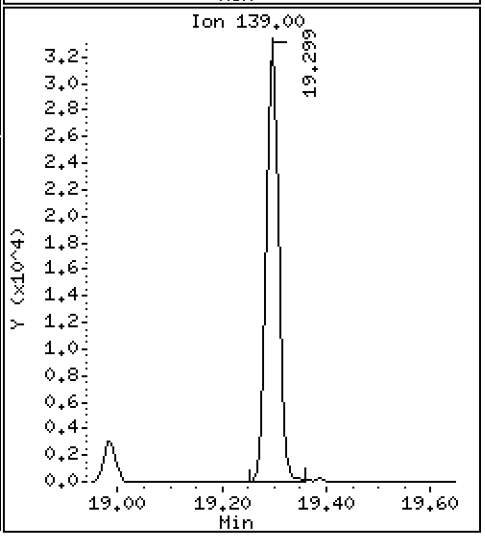


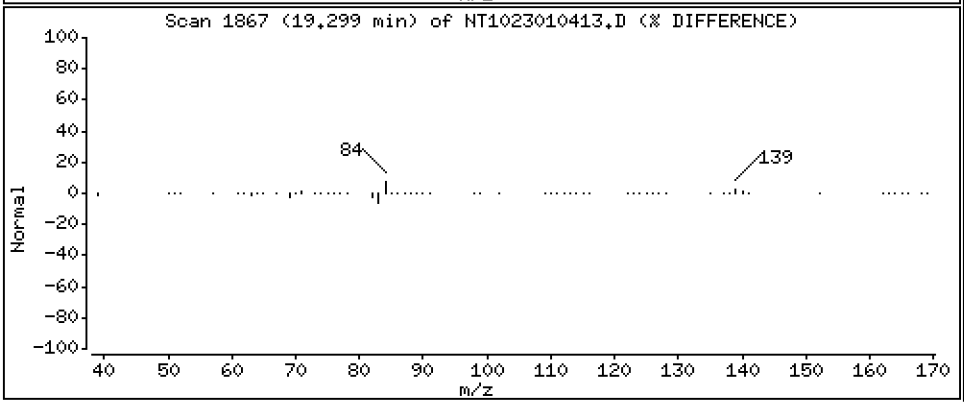












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

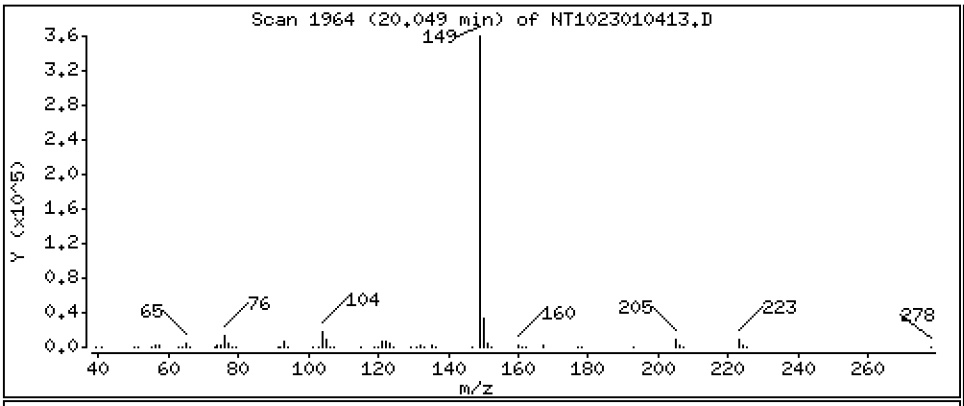
Operator: VTS

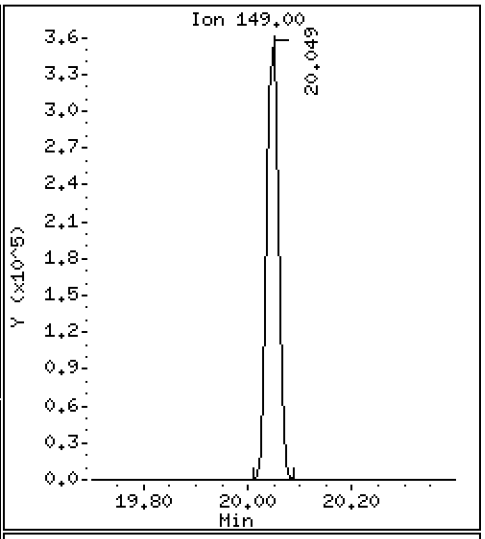
Column phase: ZB-5msi

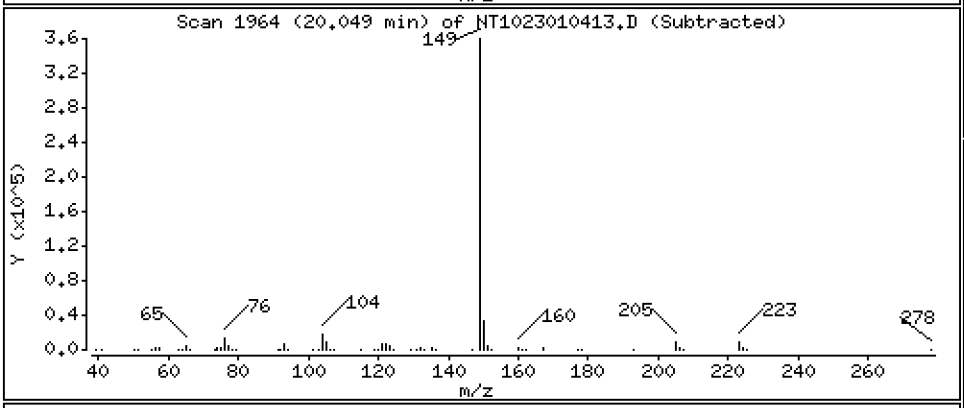
Column diameter: 0.25

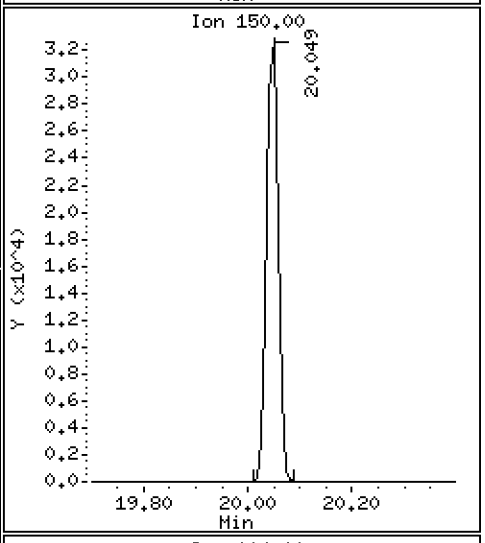
63 Di-n-butylphthalate

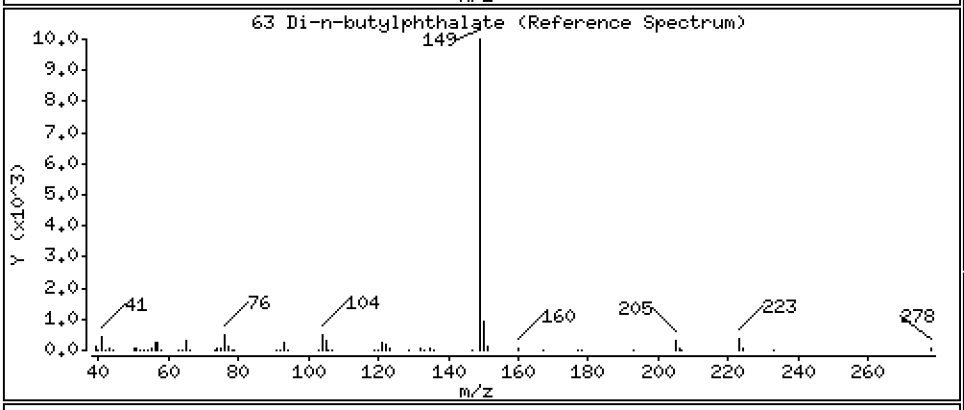
Concentration: 5.130 ug/mL

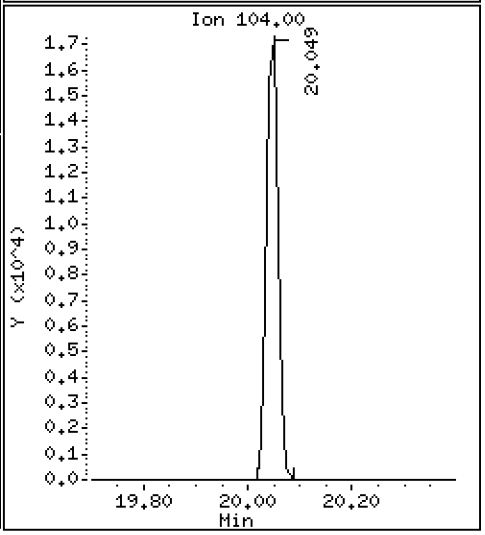


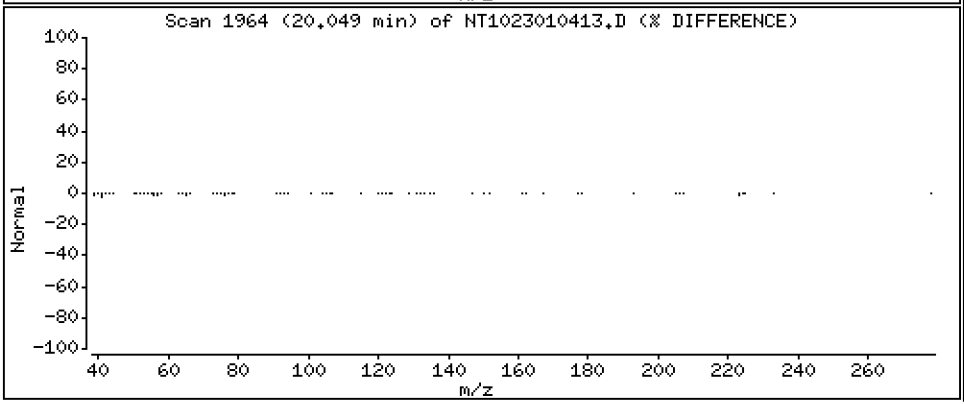












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

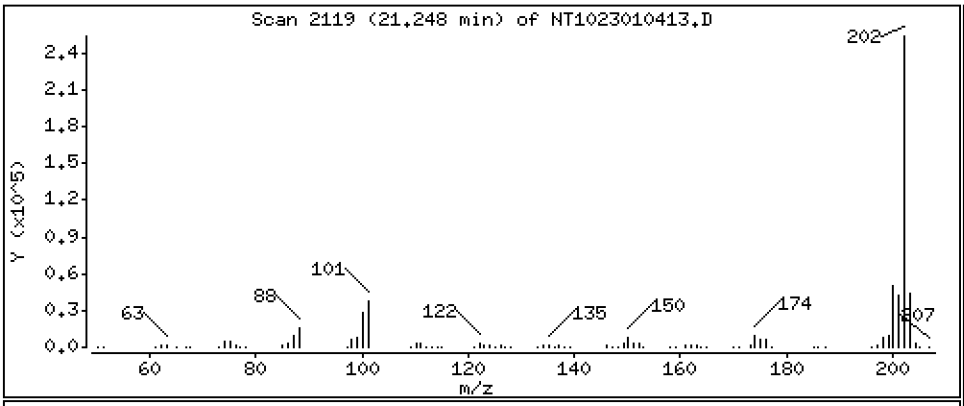
Operator: VTS

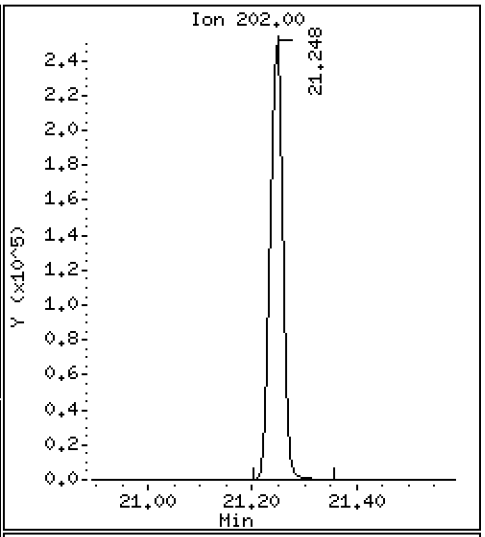
Column phase: ZB-5msi

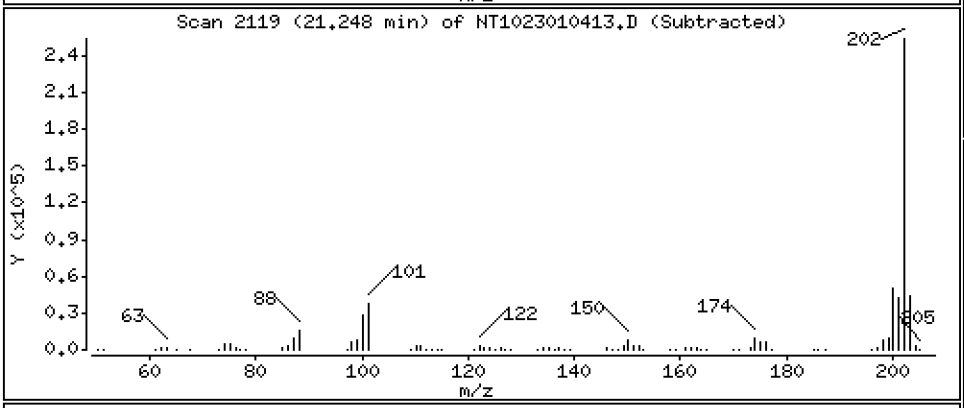
Column diameter: 0.25

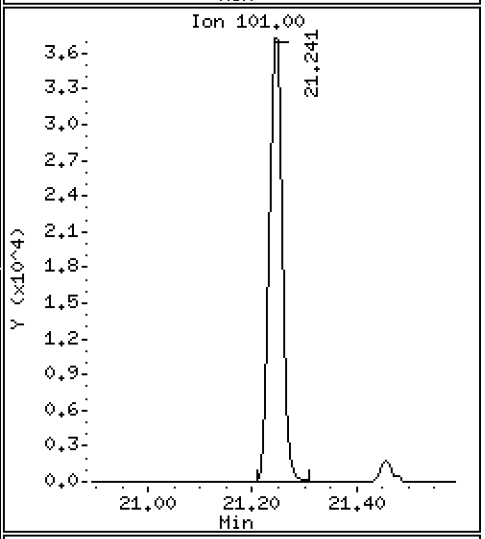
64 Fluoranthene

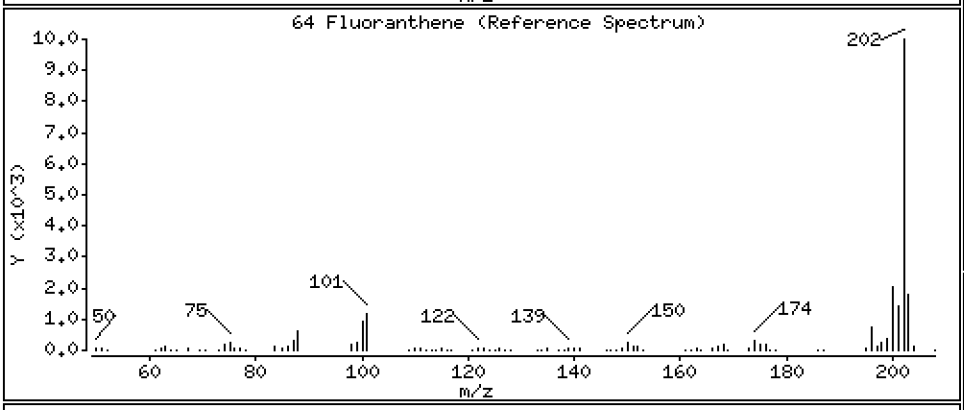
Concentration: 5.425 ug/mL

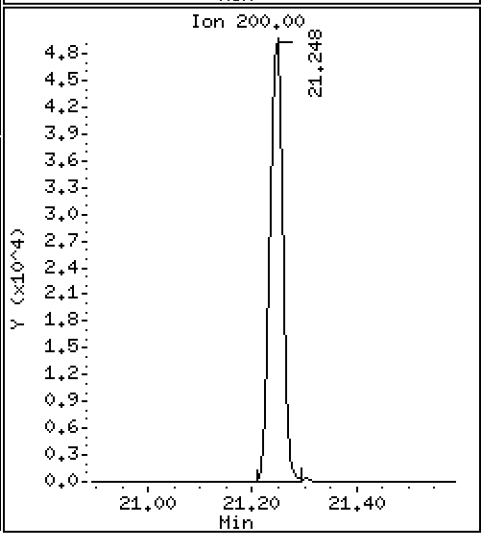


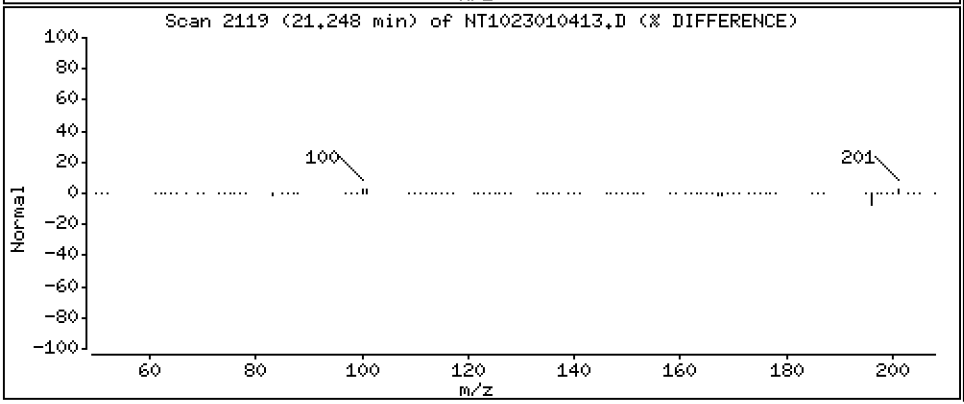












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

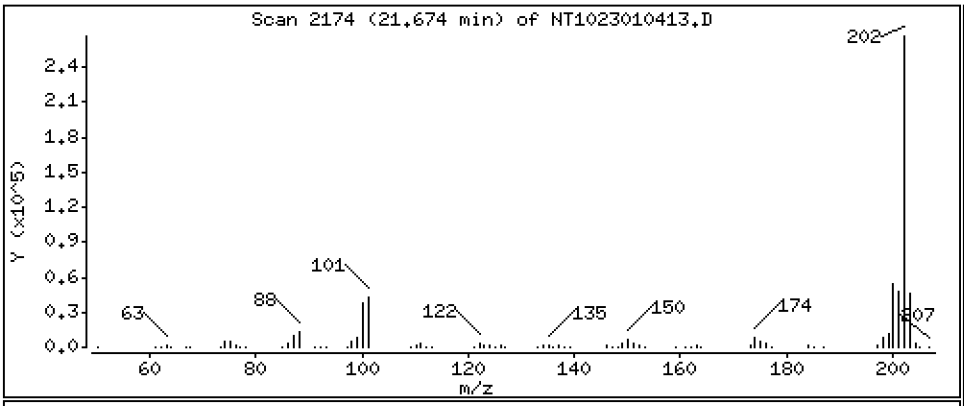
Operator: VTS

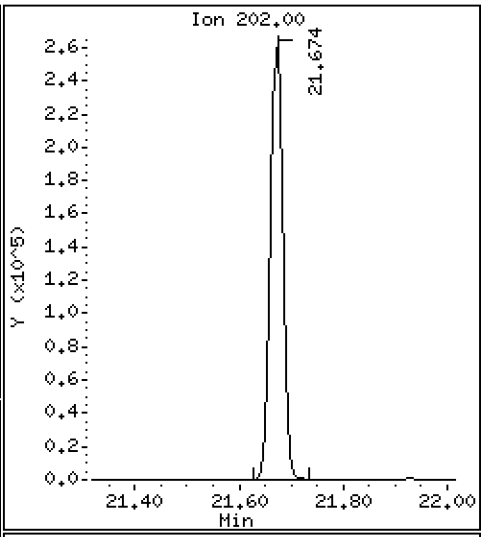
Column phase: ZB-5msi

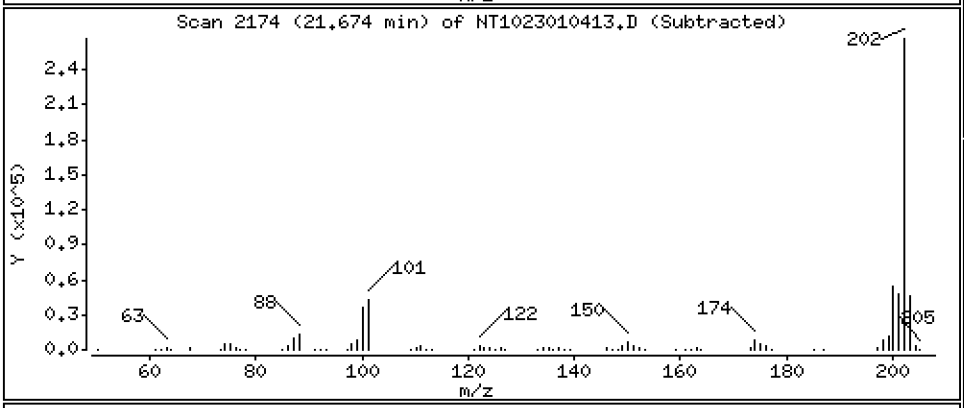
Column diameter: 0.25

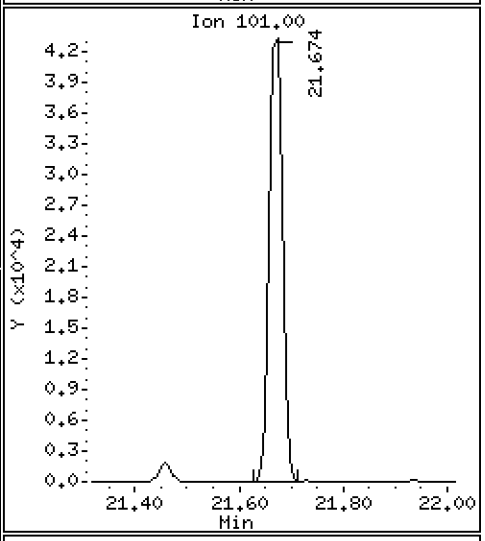
65 Pyrene

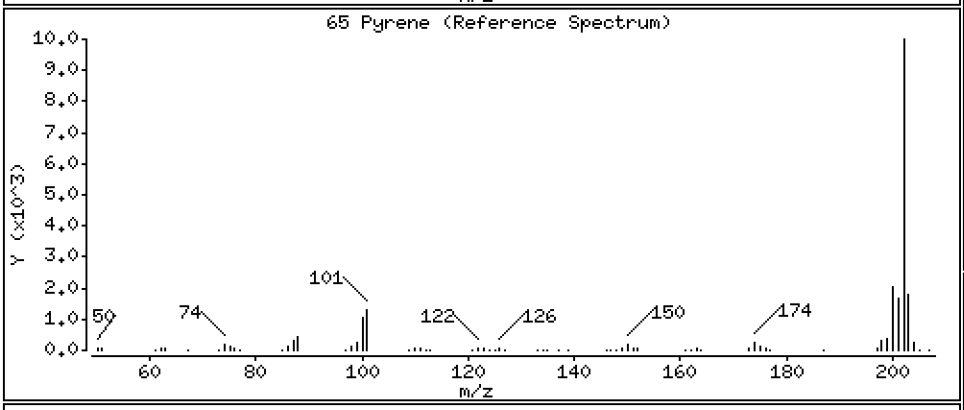
Concentration: 5.438 ug/mL

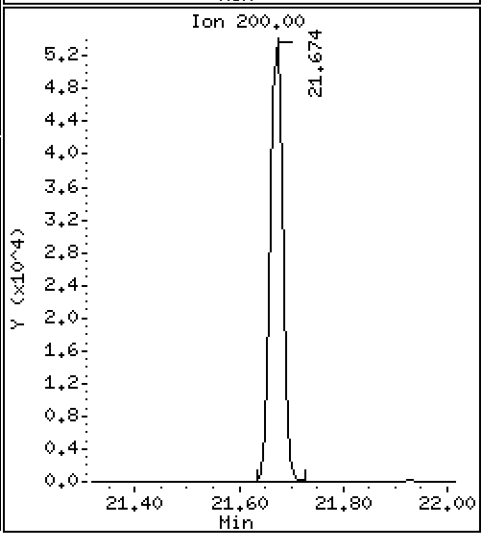


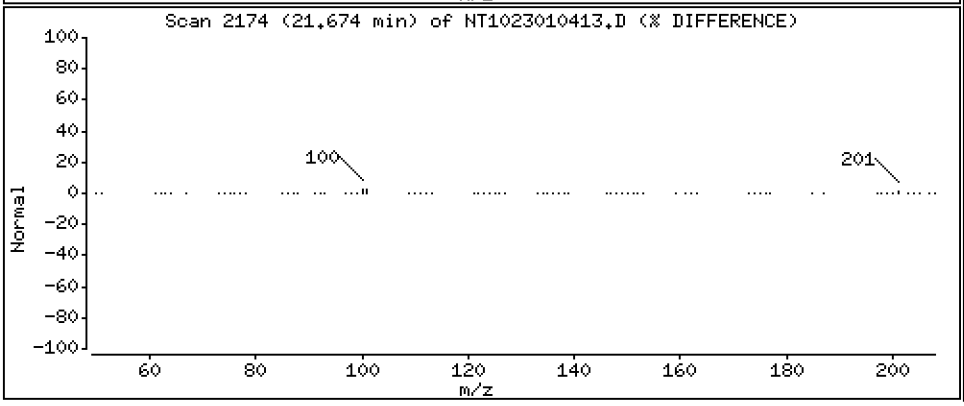












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

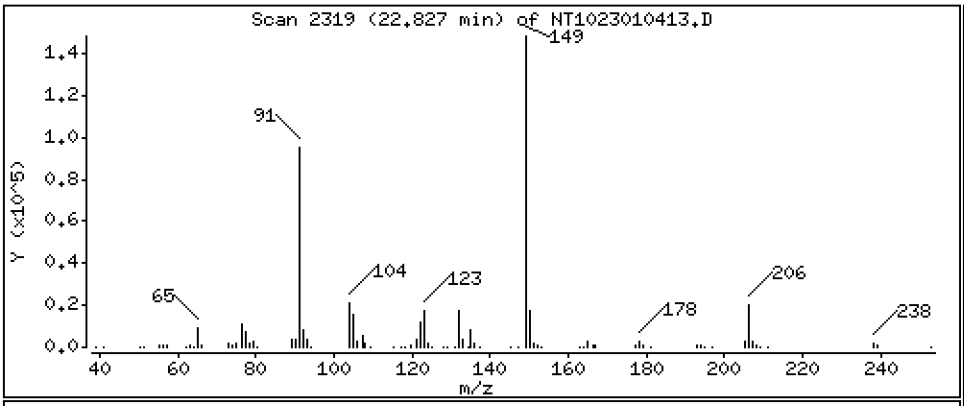
Operator: VTS

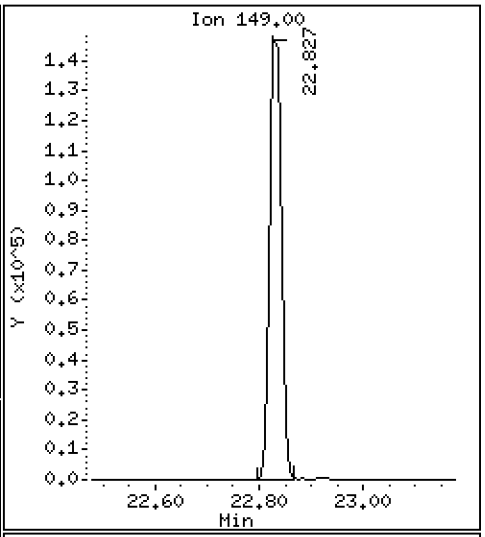
Column phase: ZB-5msi

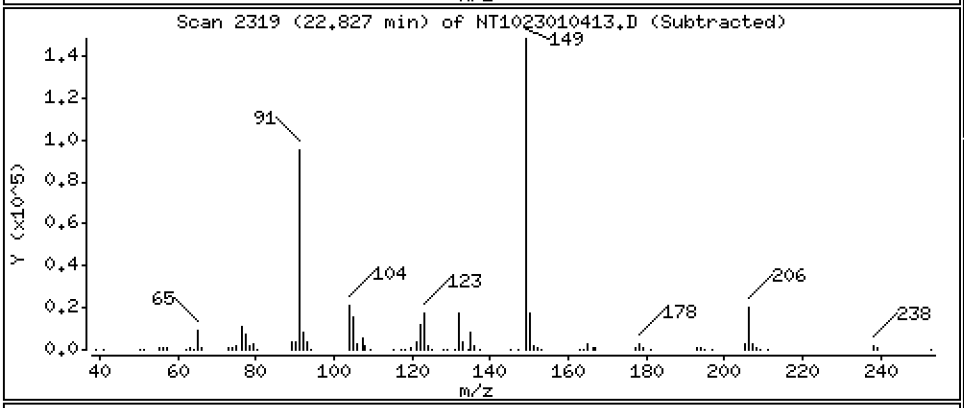
Column diameter: 0.25

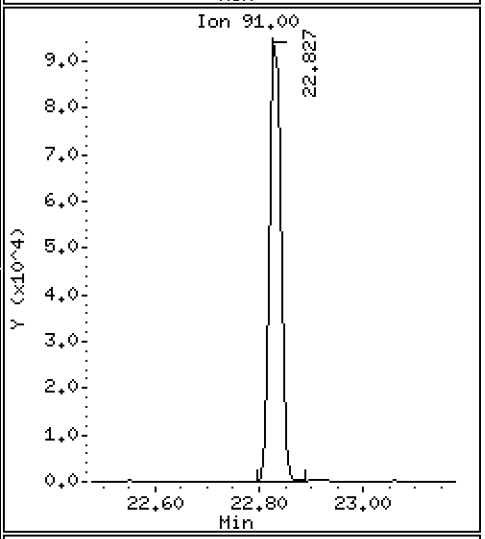
67 Butylbenzylphthalate

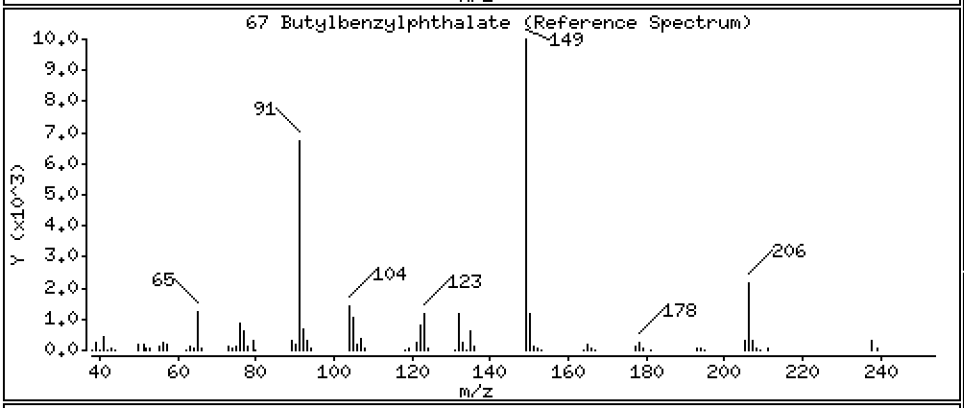
Concentration: 5.293 ug/mL

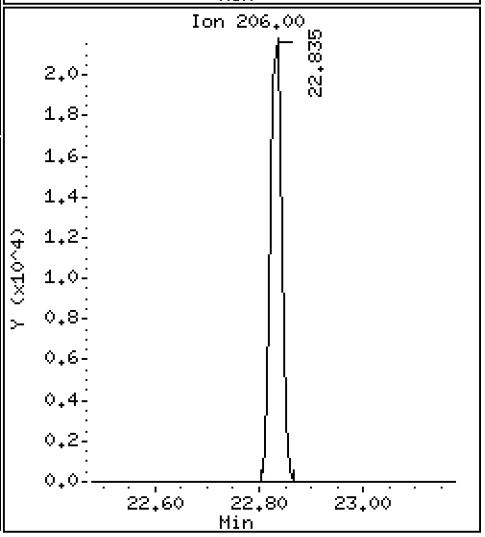


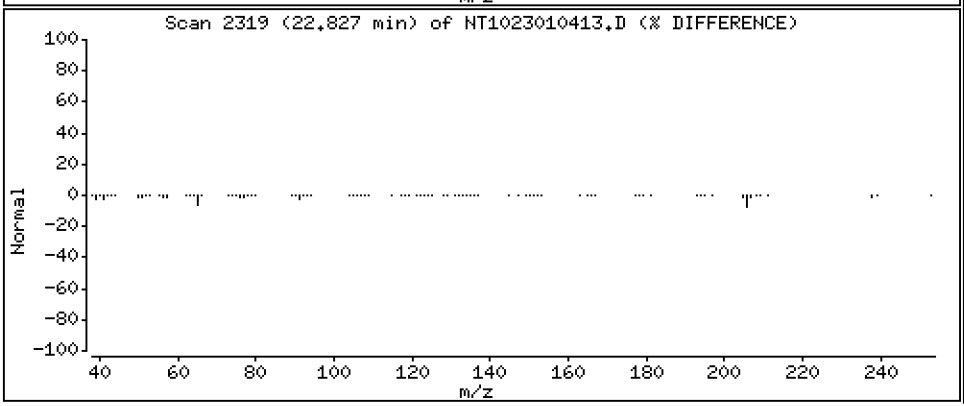












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

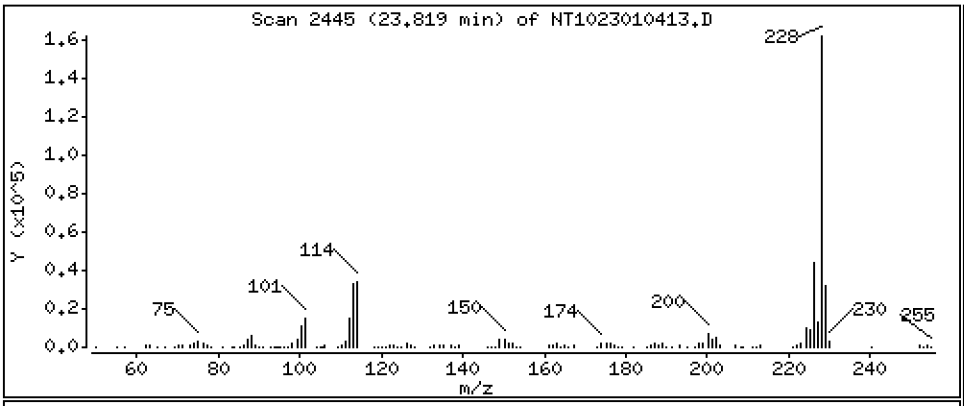
Operator: VTS

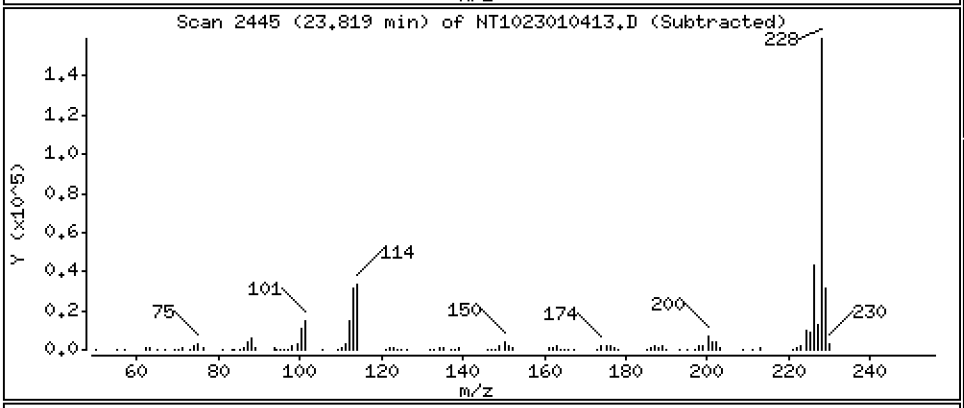
Column phase: ZB-5msi

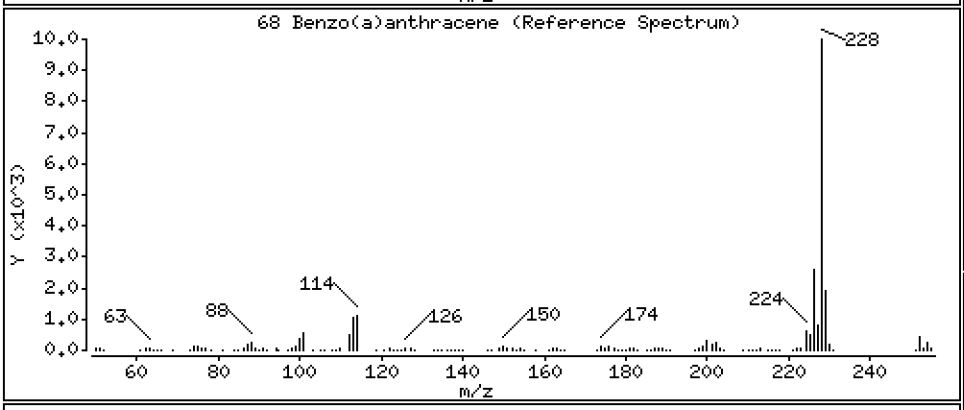
Column diameter: 0.25

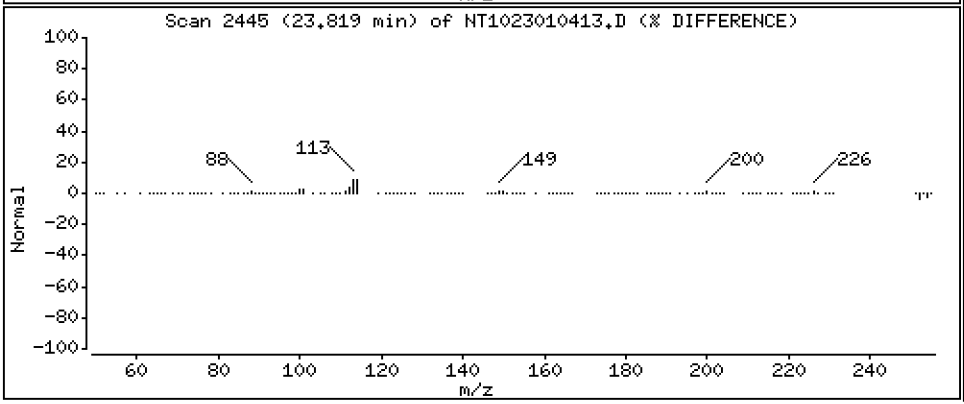
68 Benzo(a)anthracene

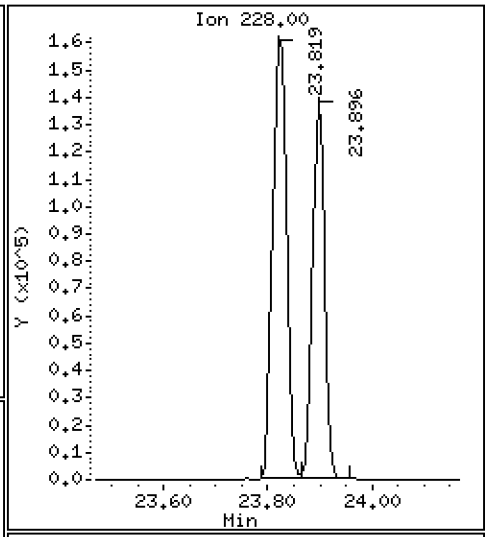
Concentration: 5.367 ug/mL

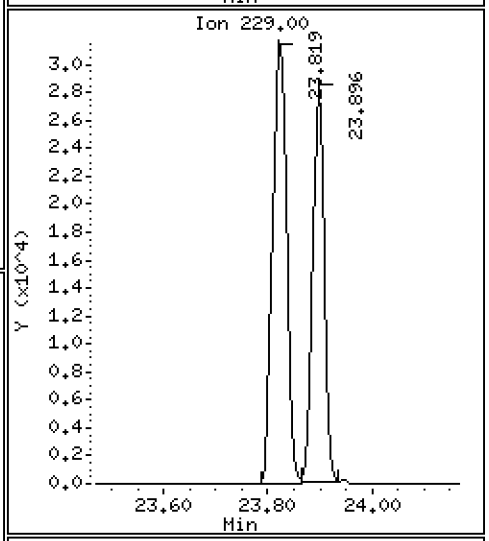


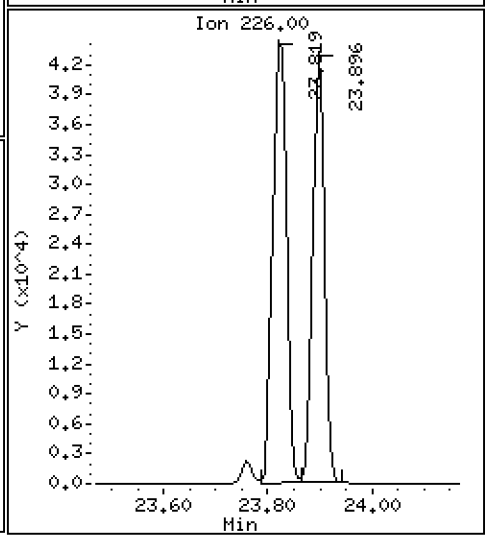












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

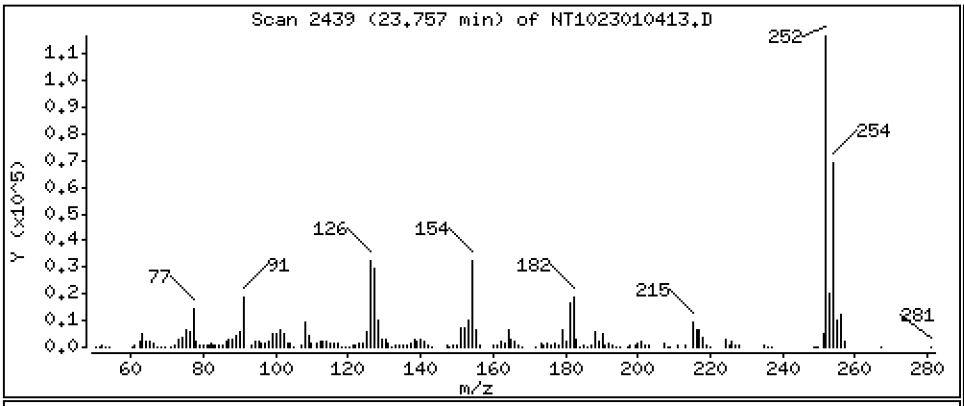
Operator: VTS

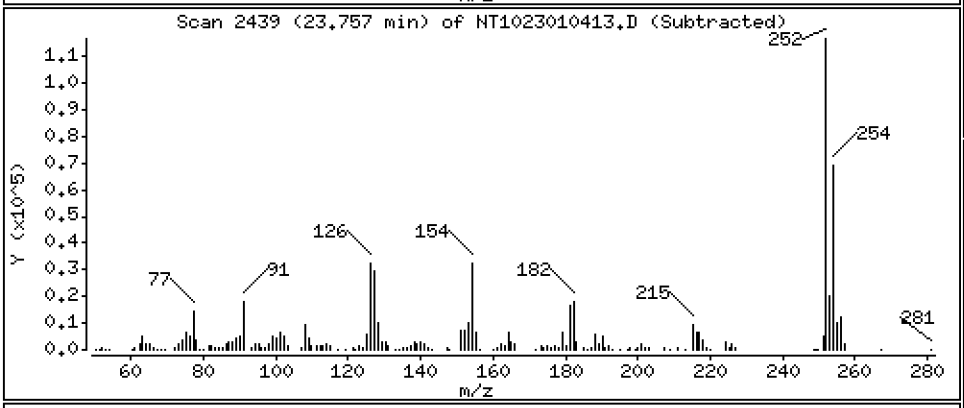
Column phase: ZB-5msi

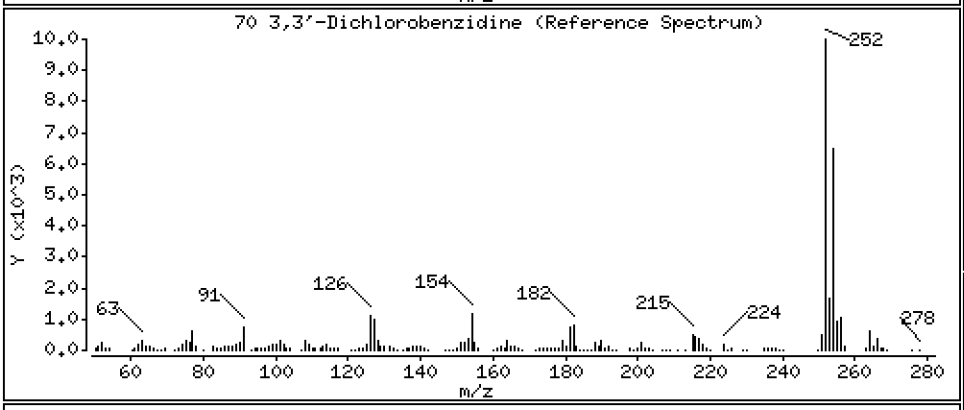
Column diameter: 0.25

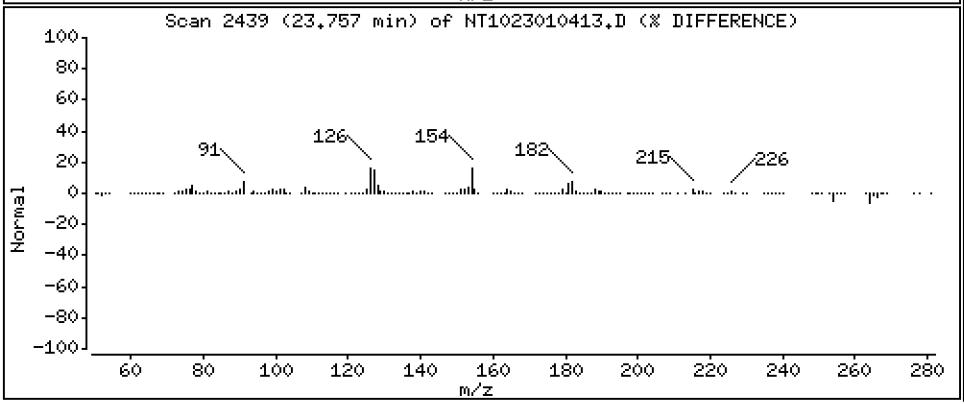
70 3,3'-Dichlorobenzidine

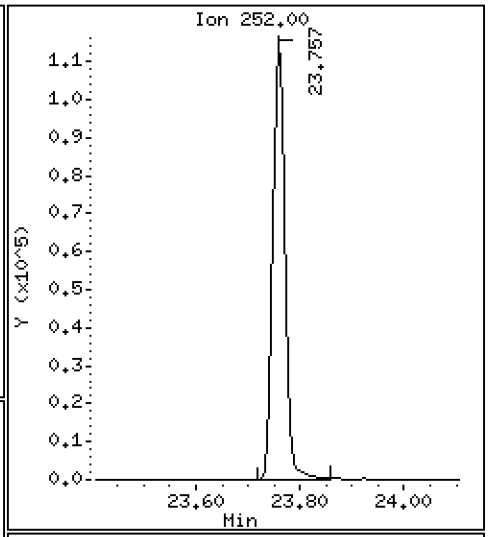
Concentration: 10.55 ug/mL

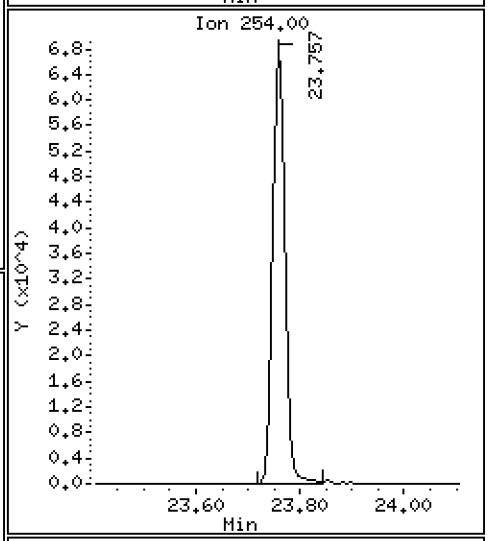


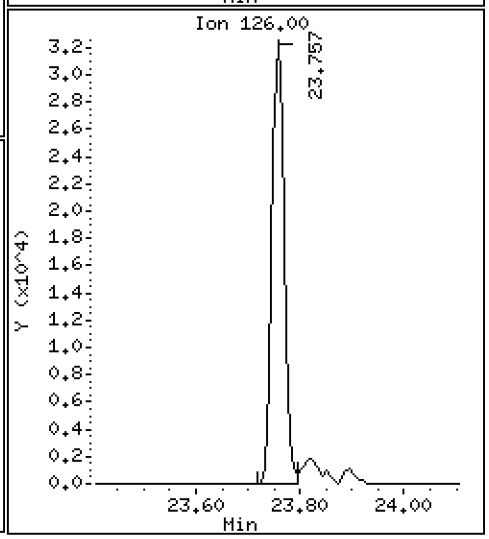












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

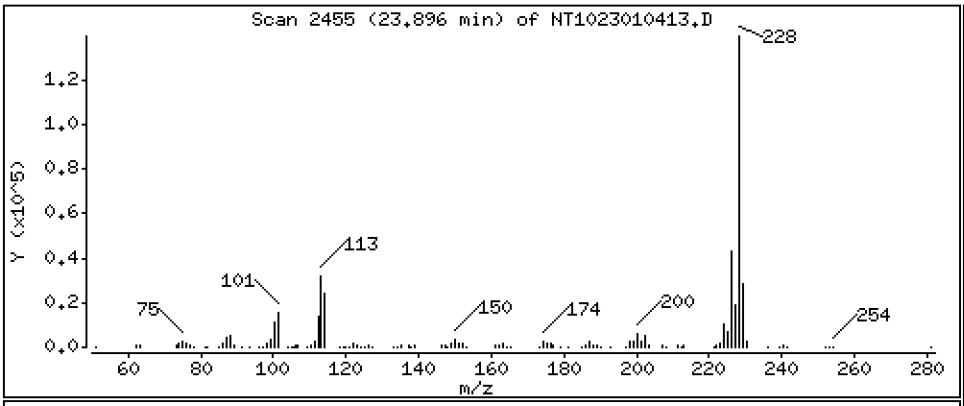
Operator: VTS

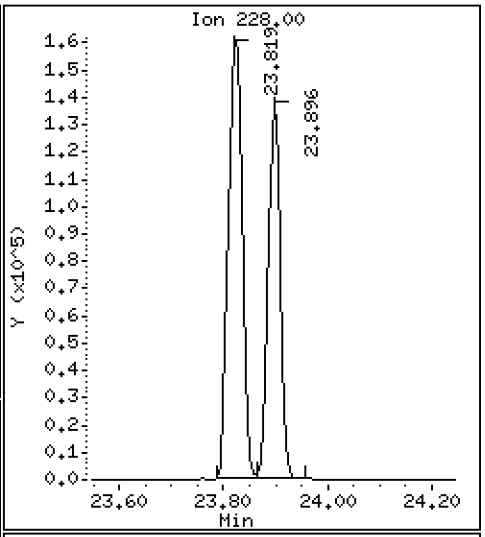
Column phase: ZB-5msi

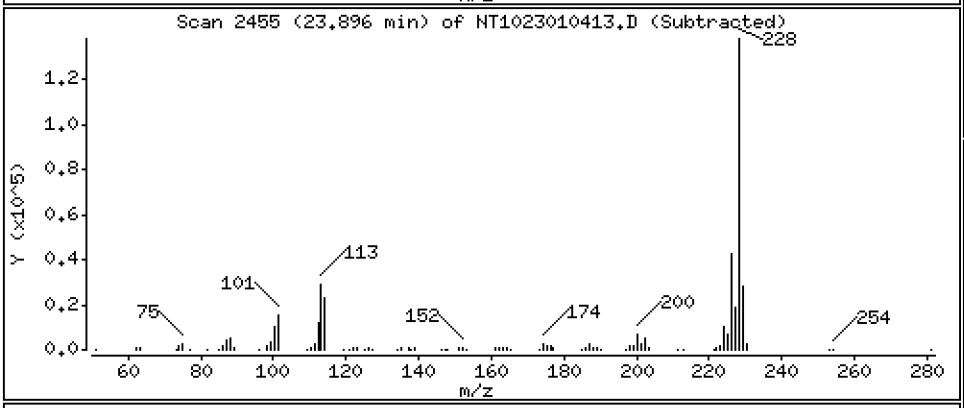
Column diameter: 0.25

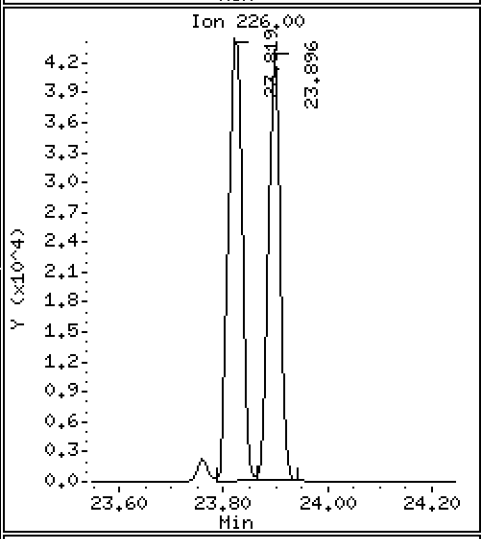
71 Chrysene

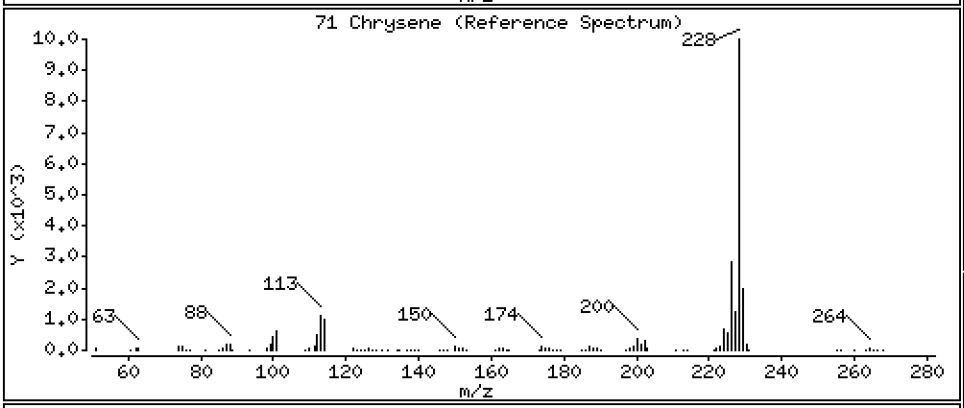
Concentration: 4.662 ug/mL

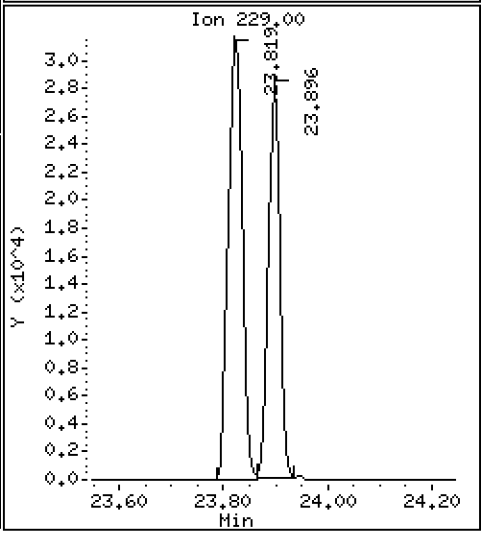


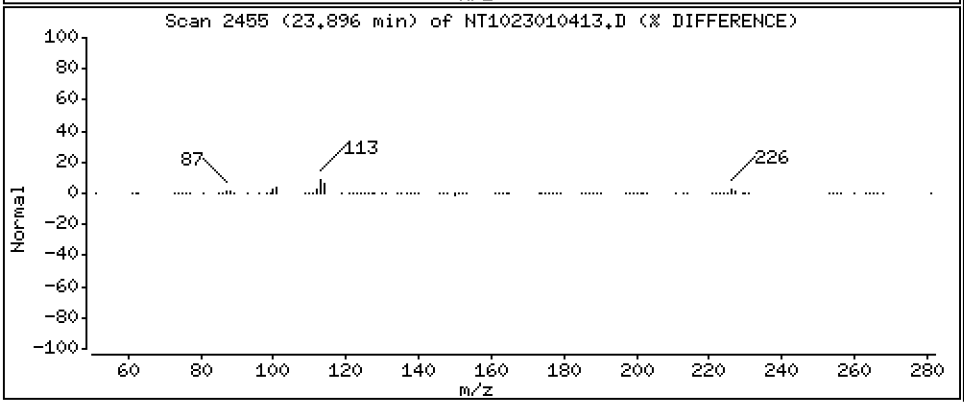












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

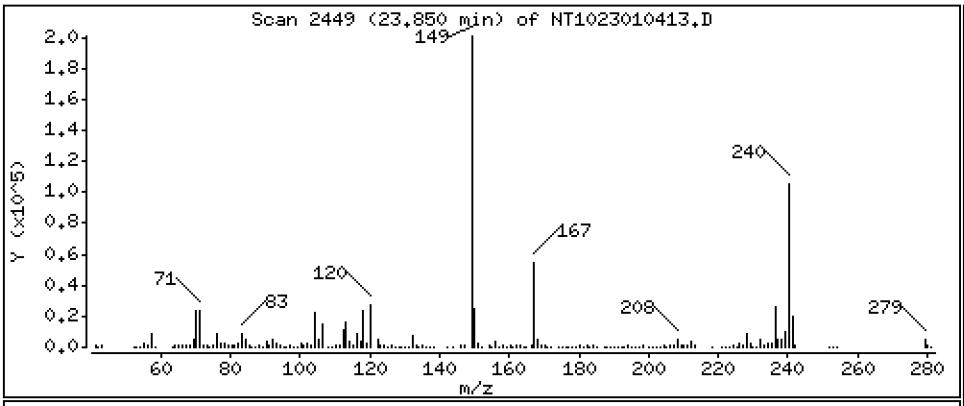
Operator: VTS

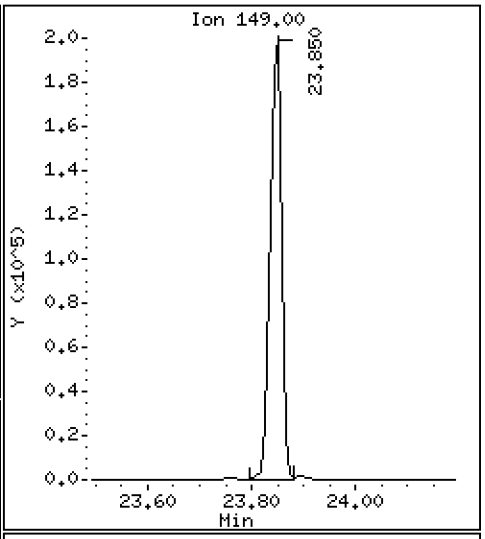
Column phase: ZB-5msi

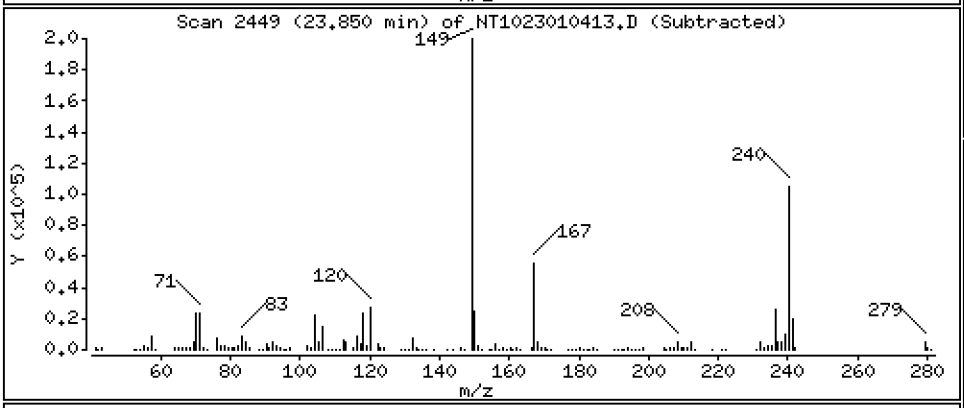
Column diameter: 0.25

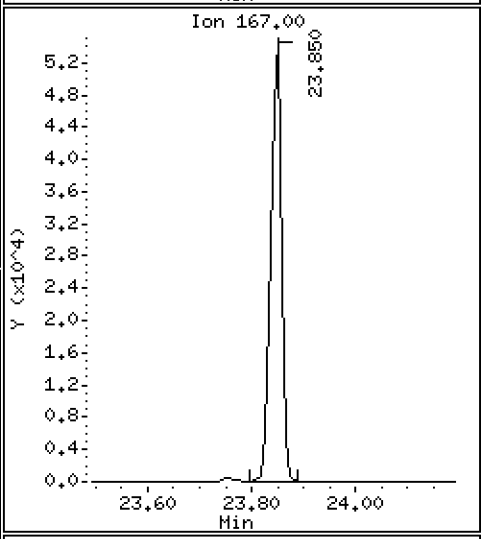
72 bis(2-Ethylhexyl)phthalate

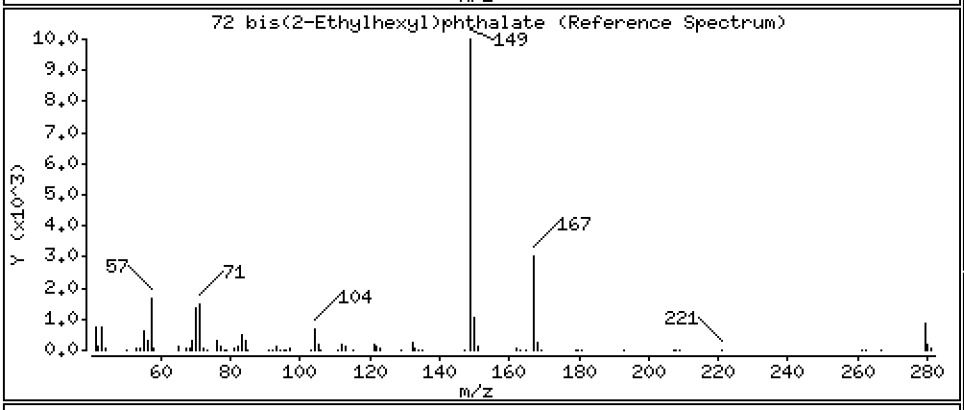
Concentration: 5.281 ug/mL

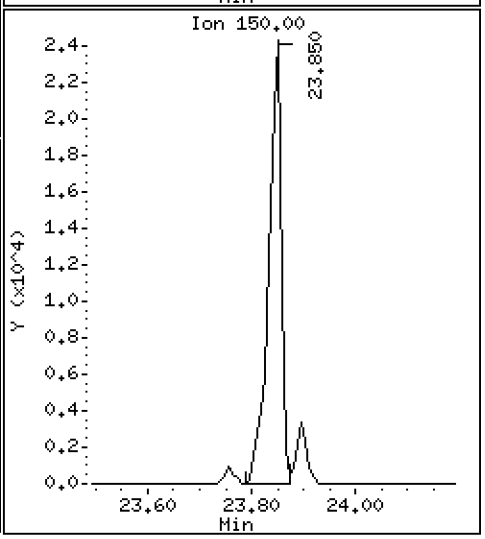


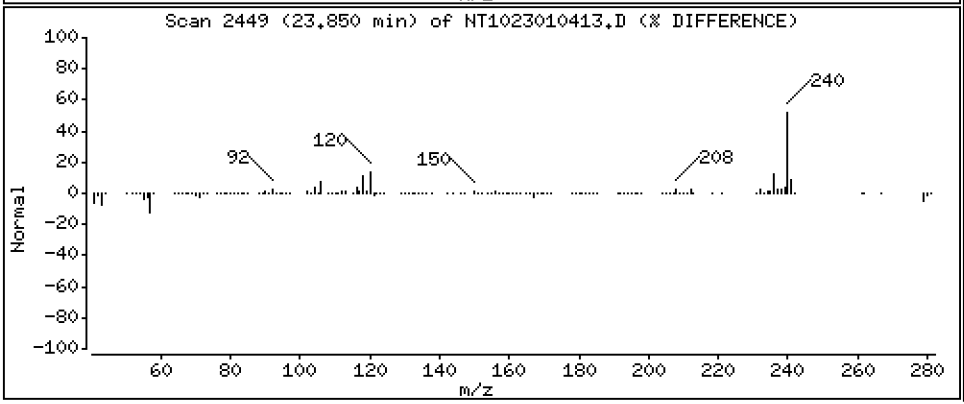












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

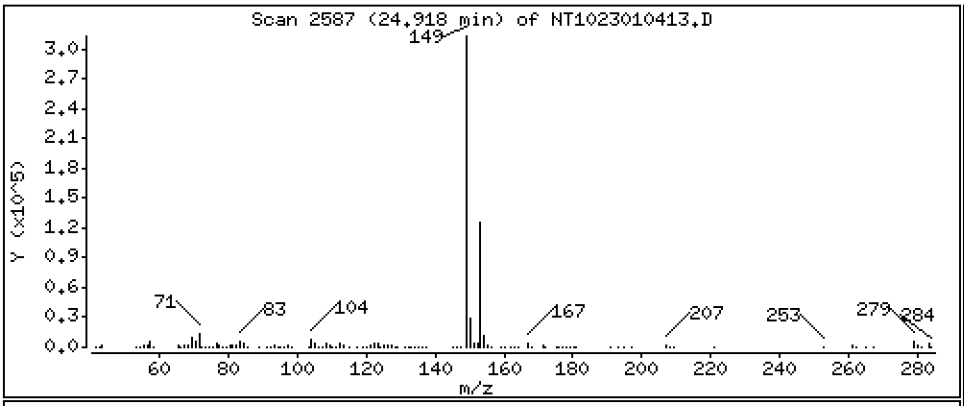
Operator: VTS

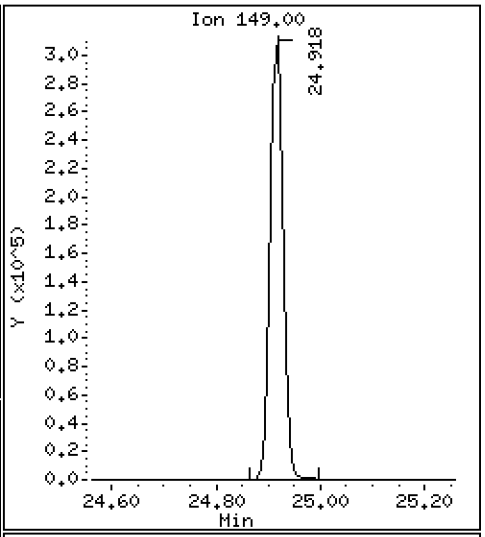
Column phase: ZB-5msi

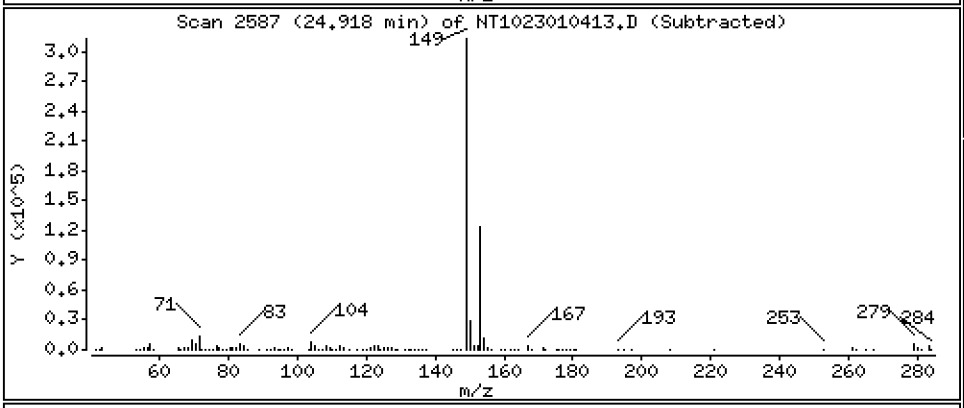
Column diameter: 0.25

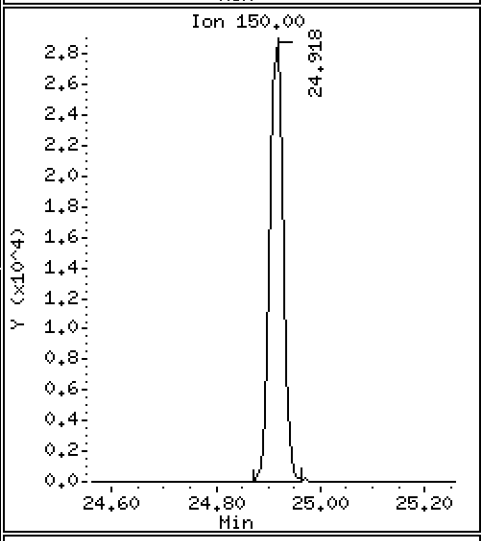
73 Di-n-octylphthalate

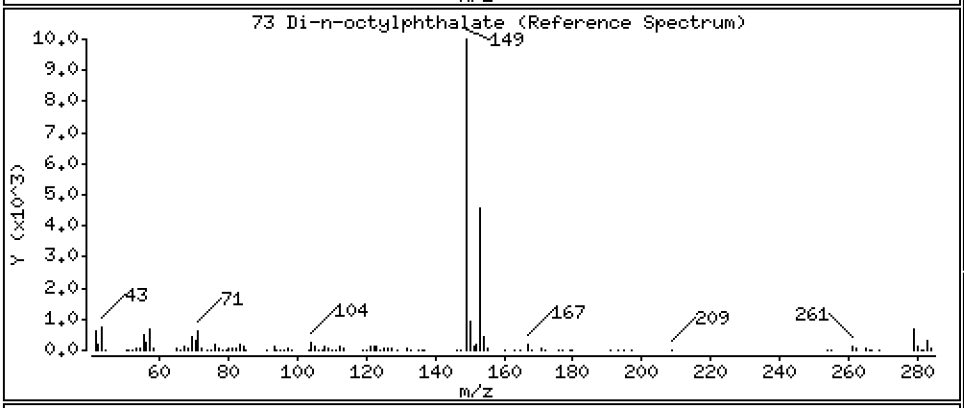
Concentration: 5.052 ug/mL

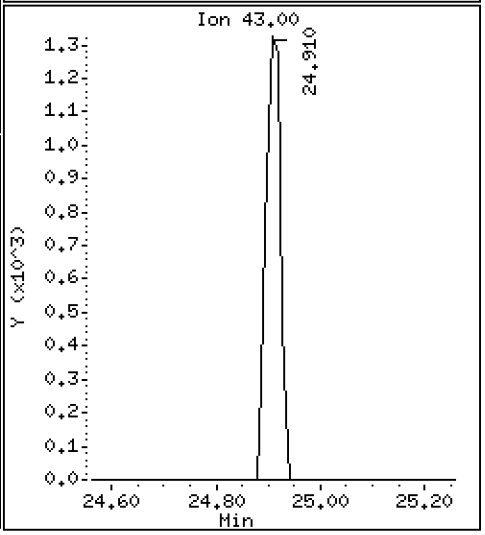


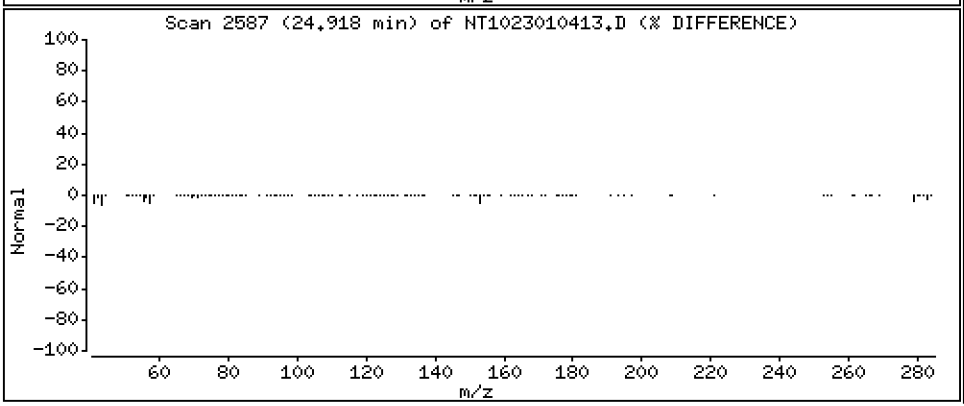












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

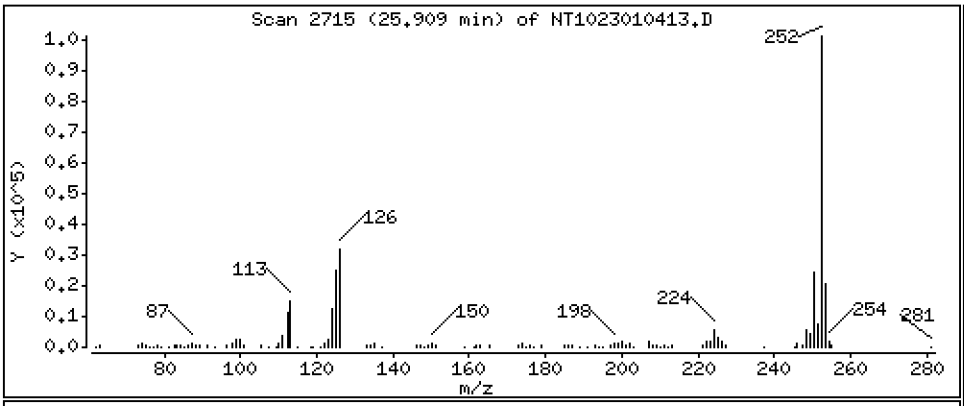
Operator: VTS

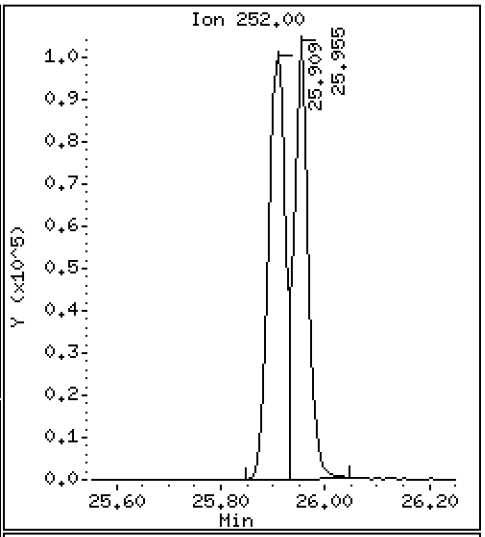
Column phase: ZB-5msi

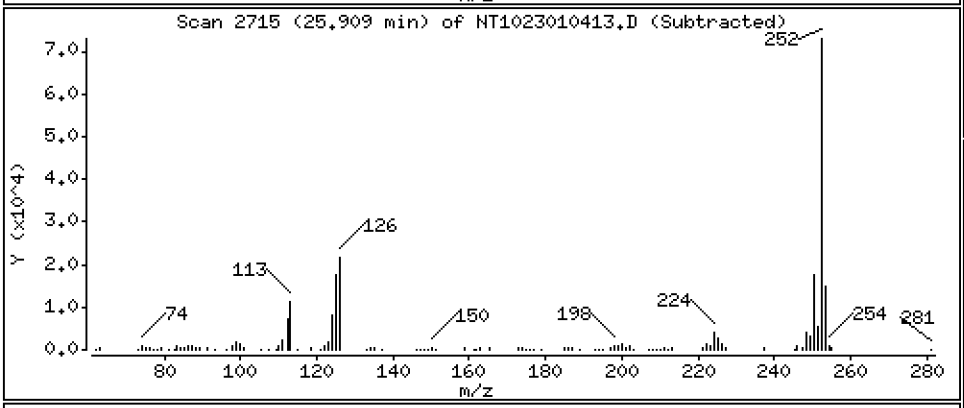
Column diameter: 0.25

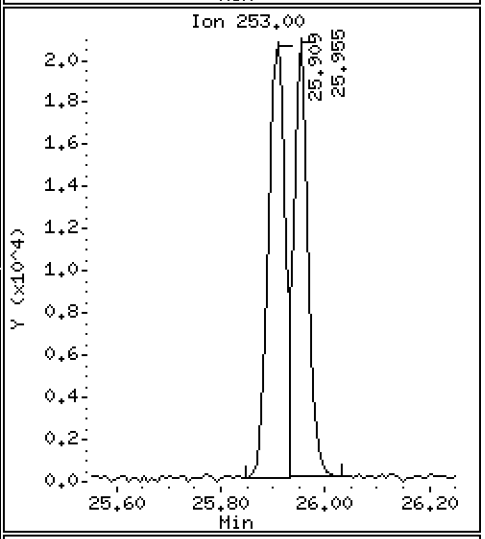
74 Benzo(b)fluoranthene

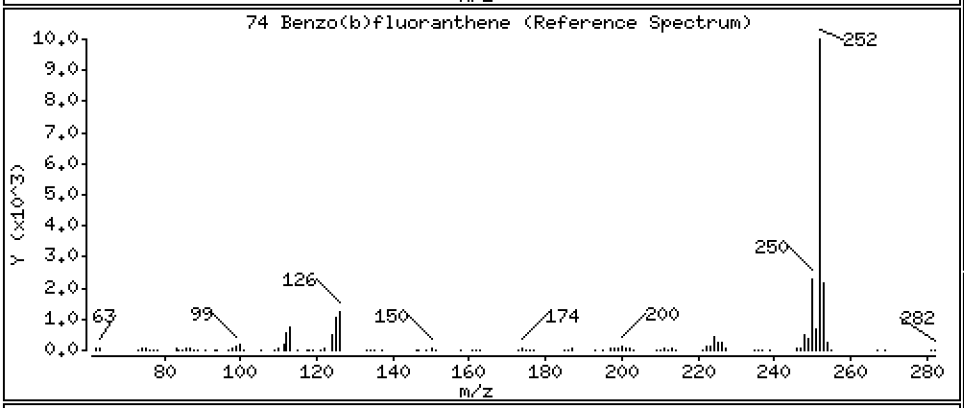
Concentration: 5.488 ug/mL

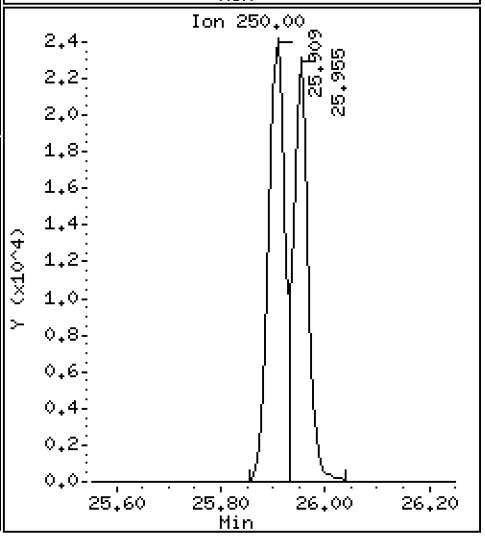


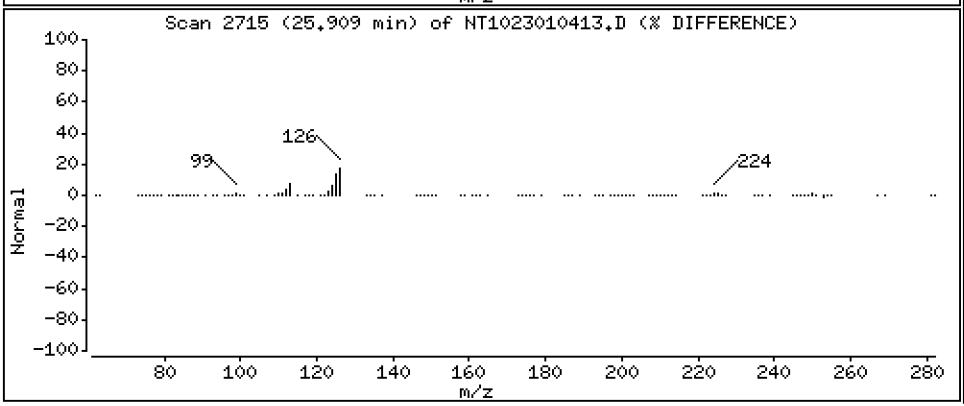












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

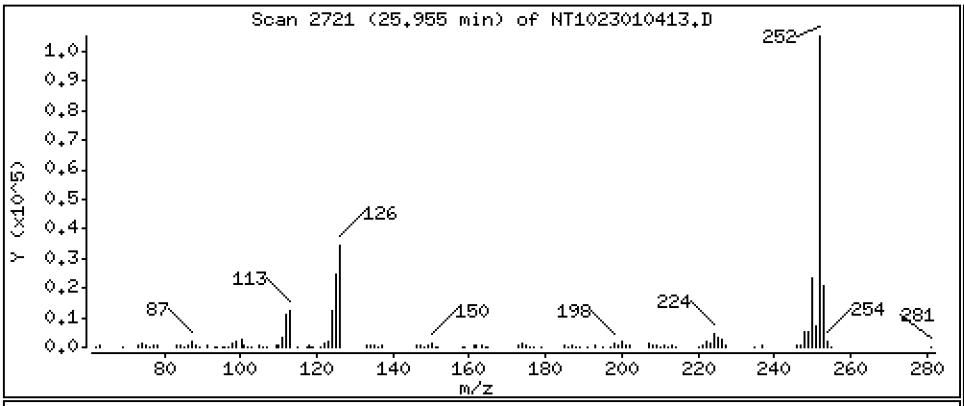
Operator: VTS

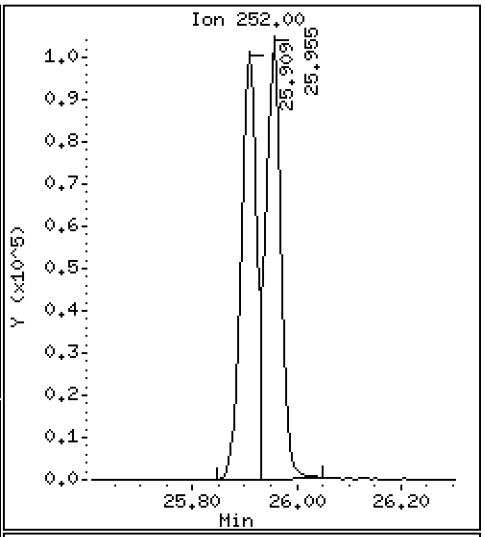
Column phase: ZB-5msi

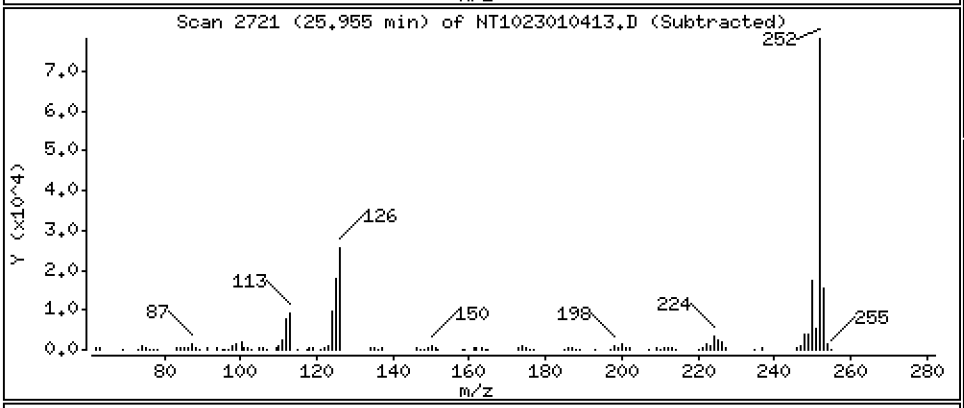
Column diameter: 0.25

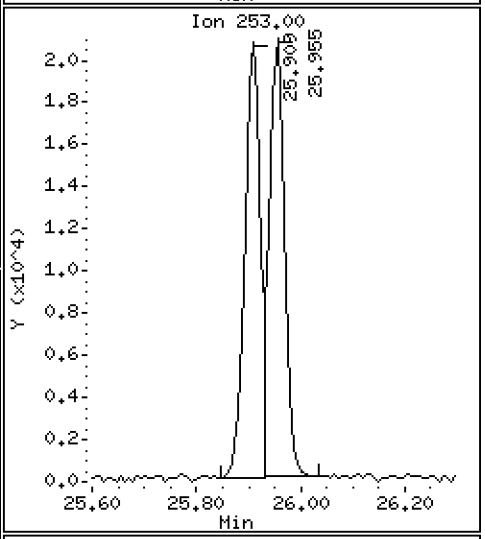
75 Benzo(k)fluoranthene

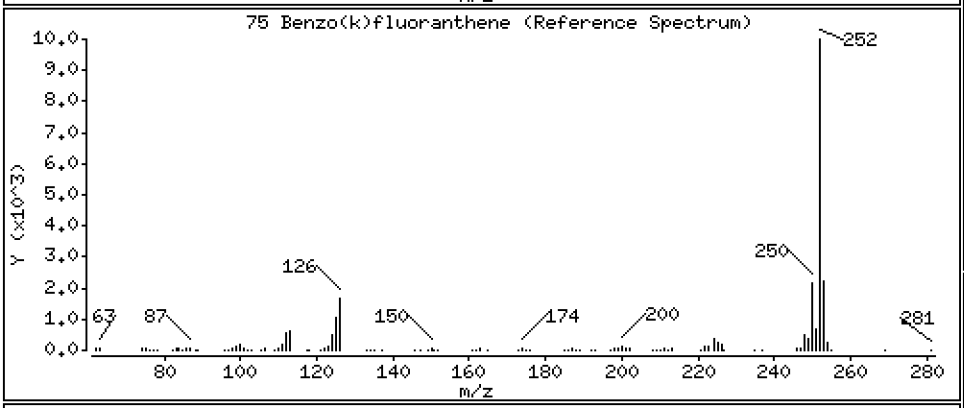
Concentration: 5.183 ug/mL

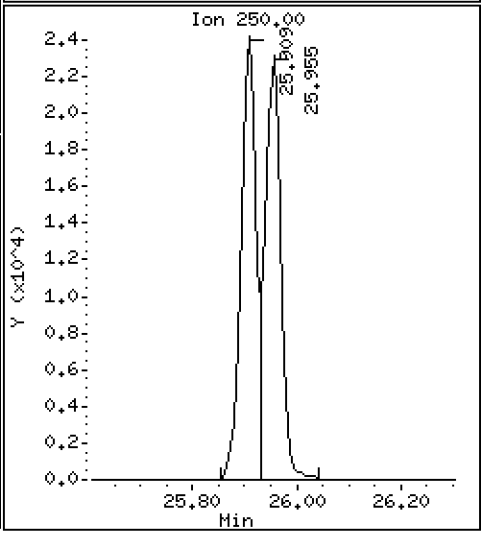


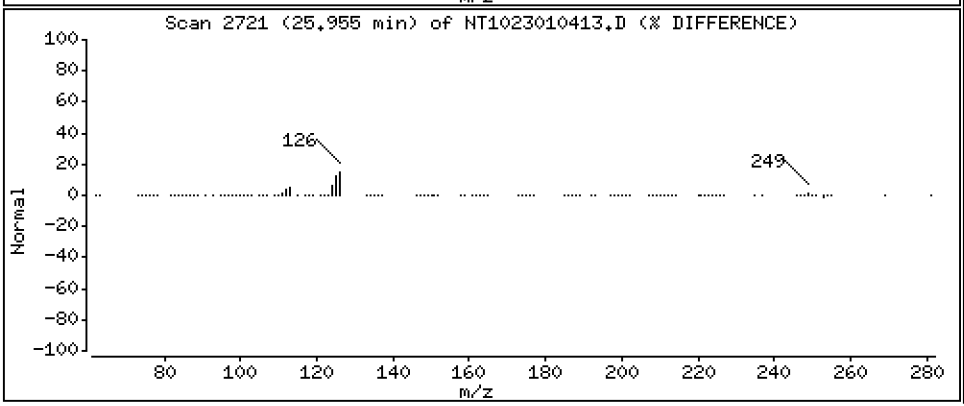












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

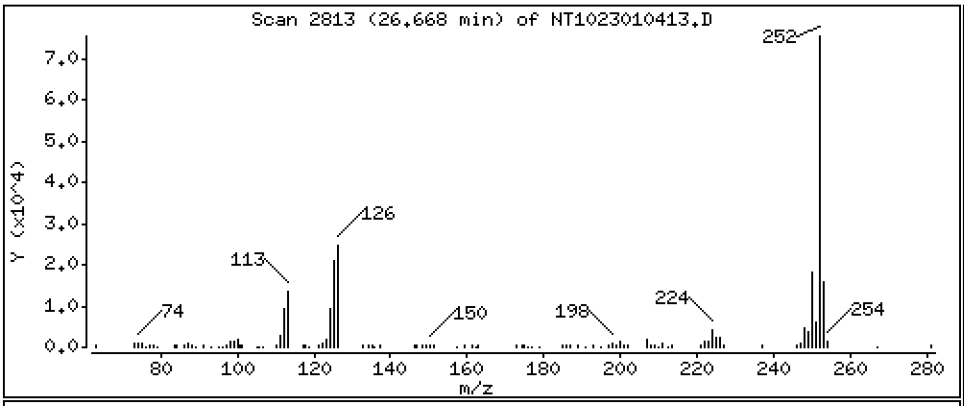
Operator: VTS

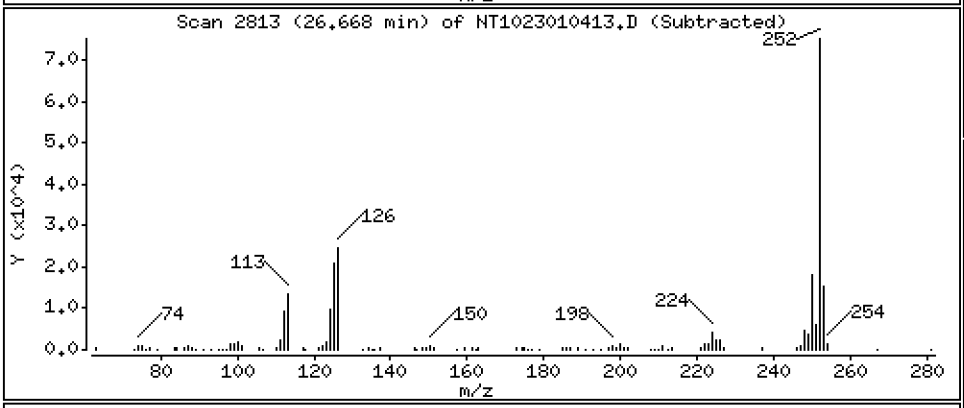
Column phase: ZB-5msi

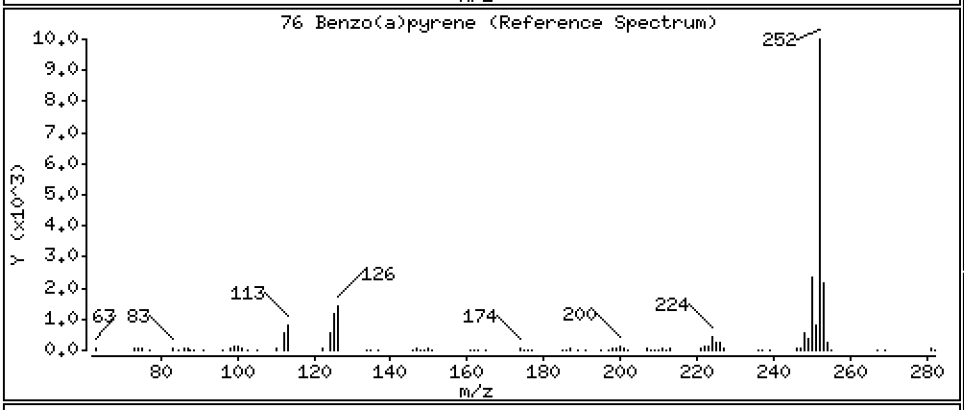
Column diameter: 0.25

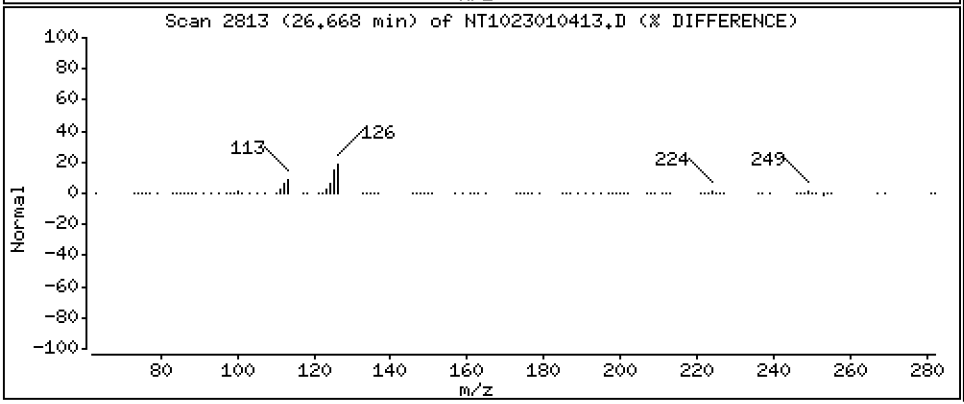
76 Benzo(a)pyrene

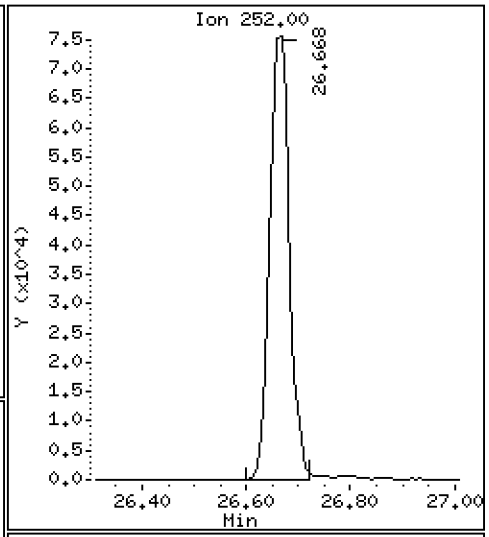
Concentration: 5.365 ug/mL

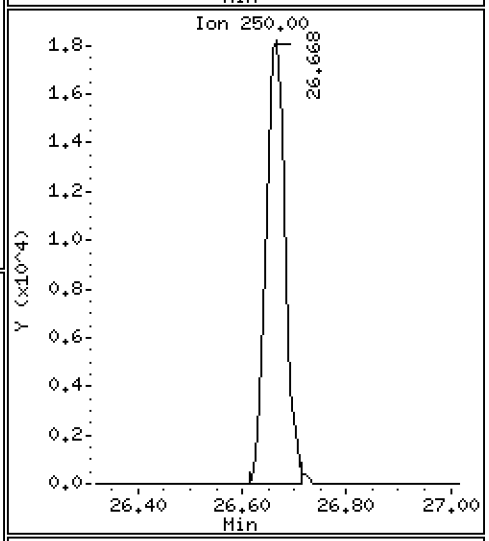


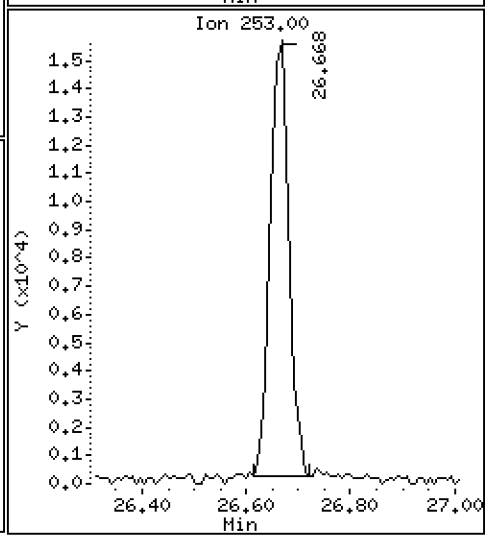












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

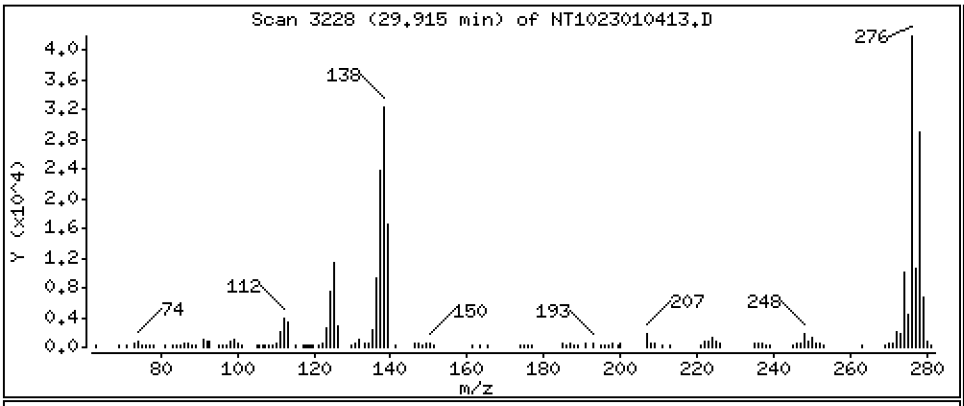
Operator: VTS

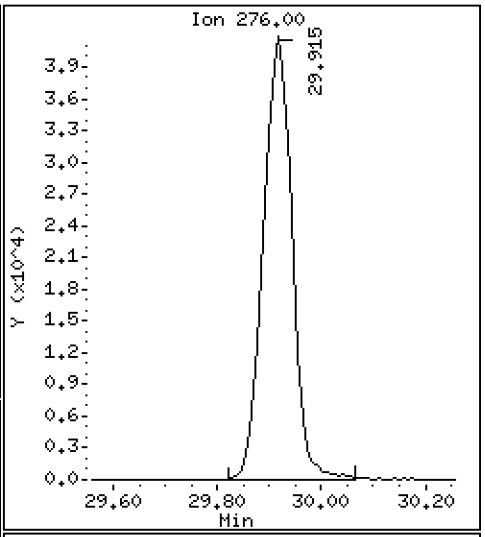
Column phase: ZB-5msi

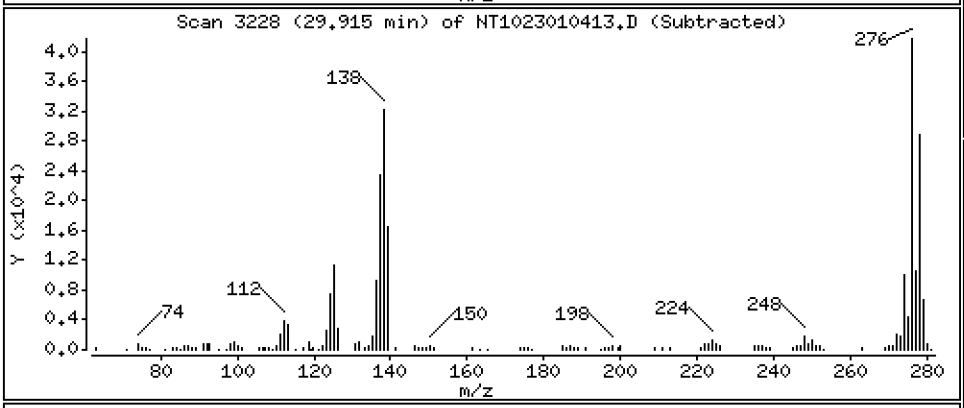
Column diameter: 0.25

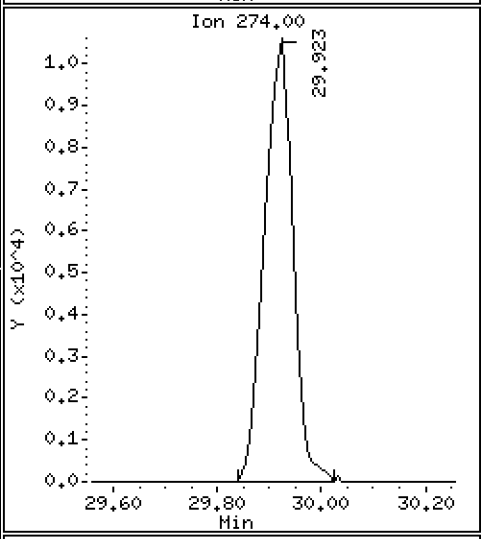
78 Indeno(1,2,3-cd)pyrene

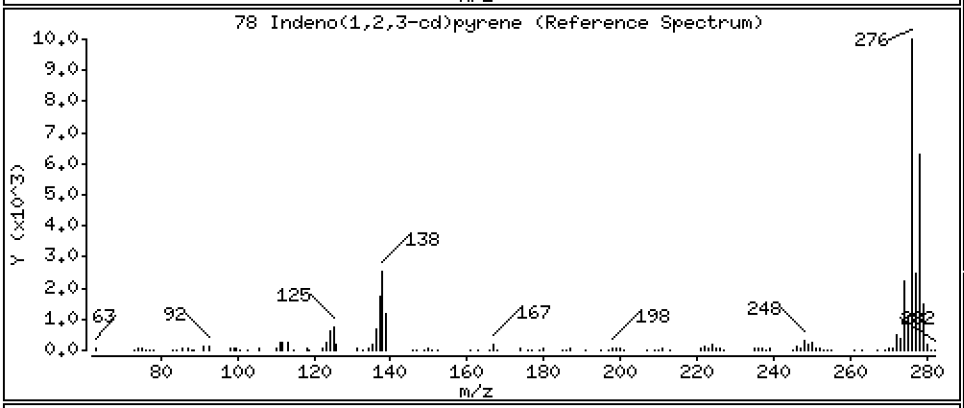
Concentration: 5.235 ug/mL

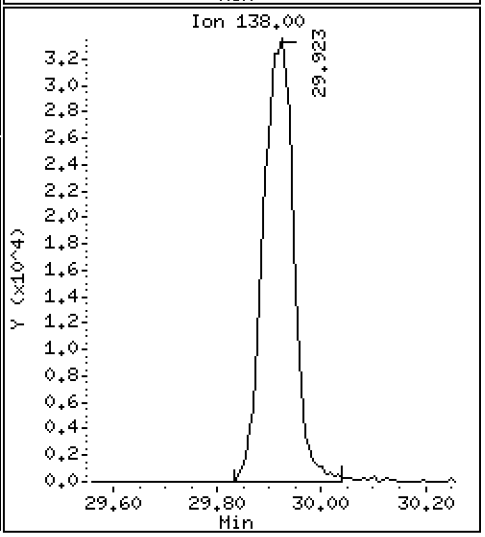


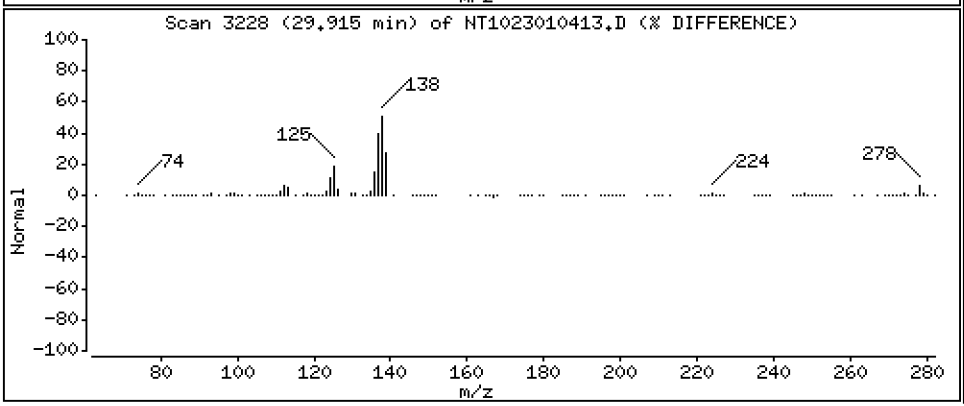












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

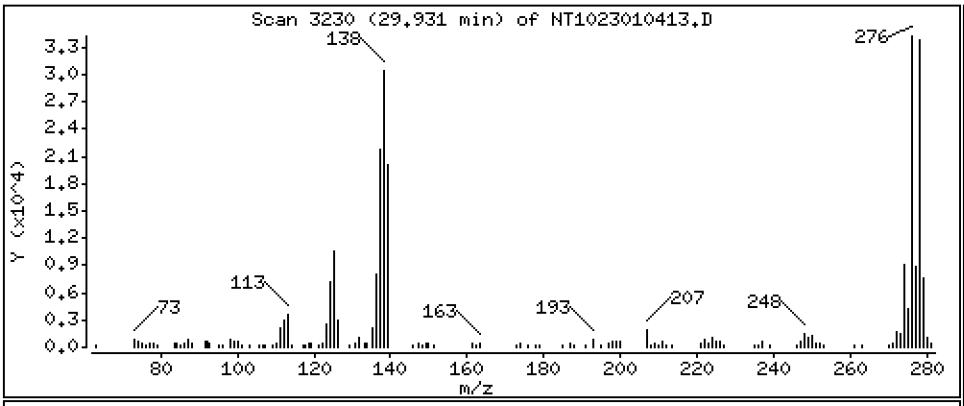
Operator: VTS

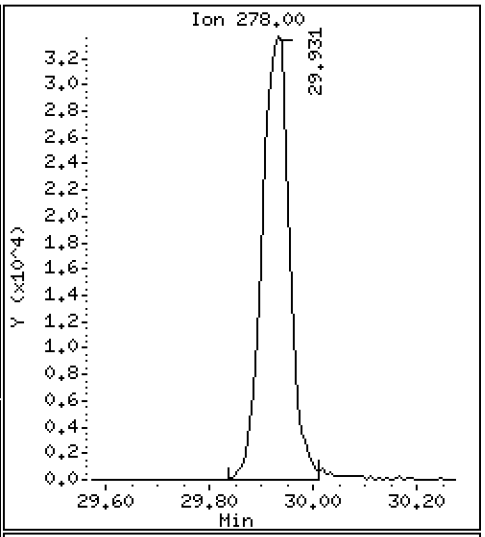
Column phase: ZB-5msi

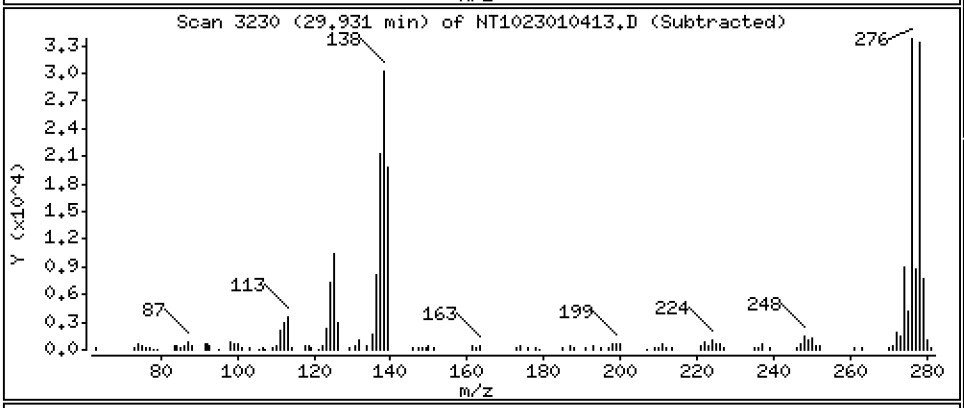
Column diameter: 0.25

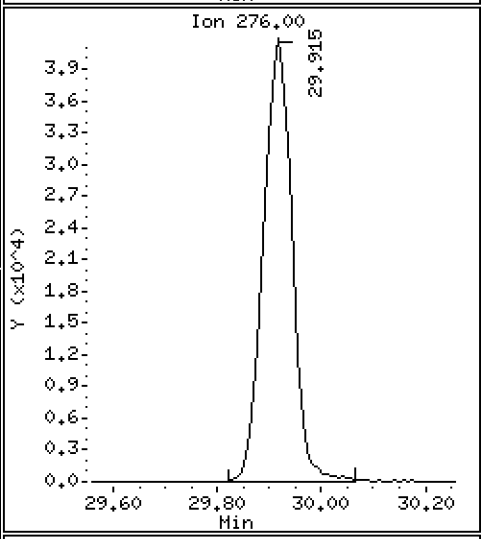
79 Dibenzo(a,h)anthracene

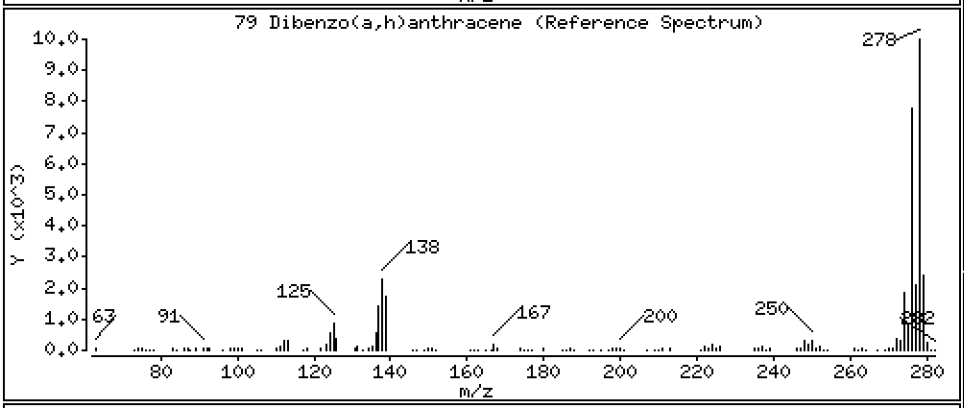
Concentration: 5.112 ug/mL

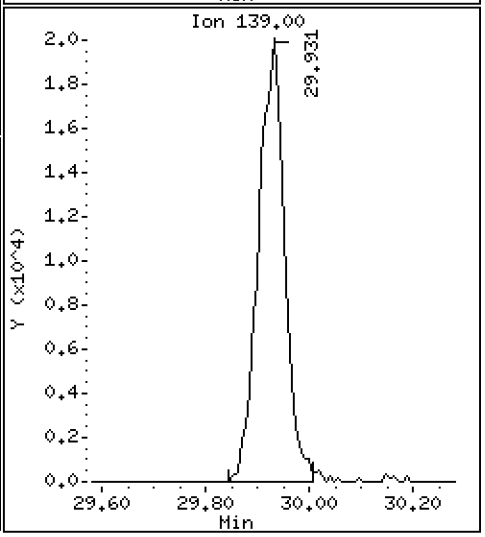


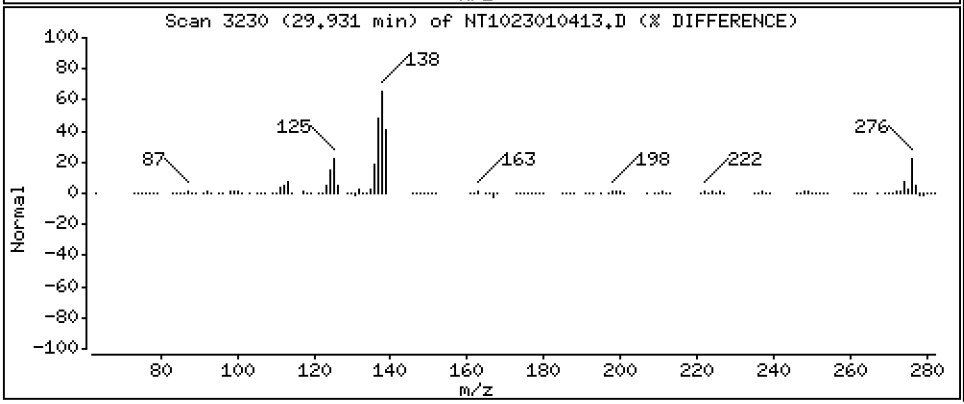












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

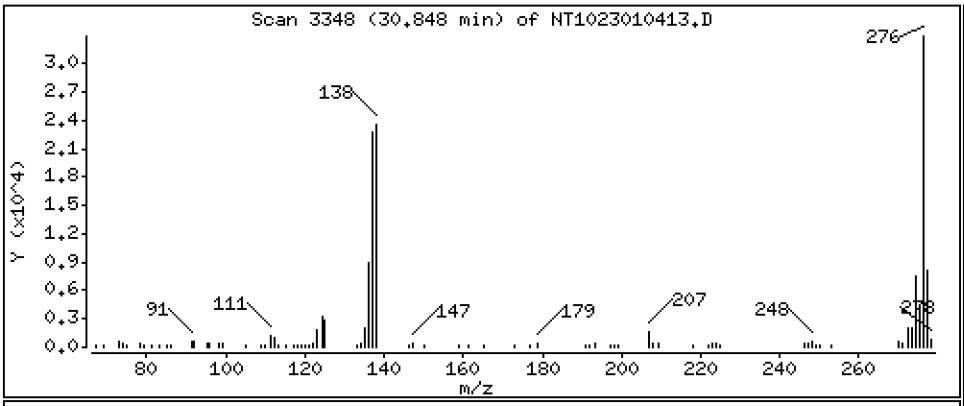
Operator: VTS

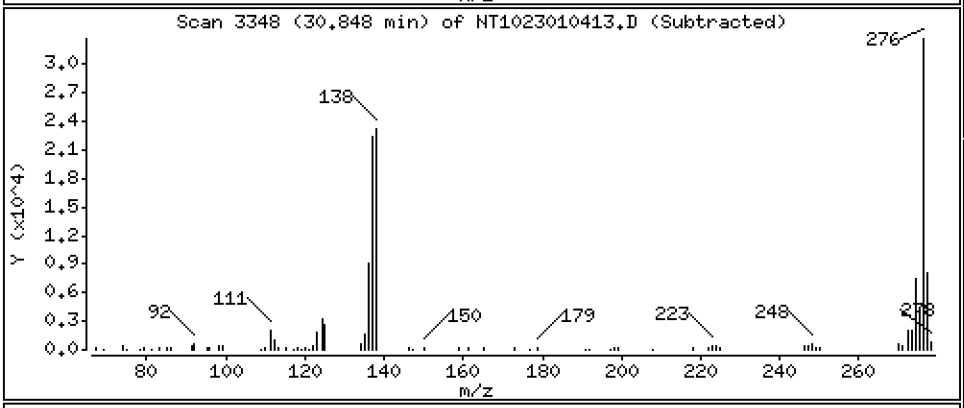
Column phase: ZB-5msi

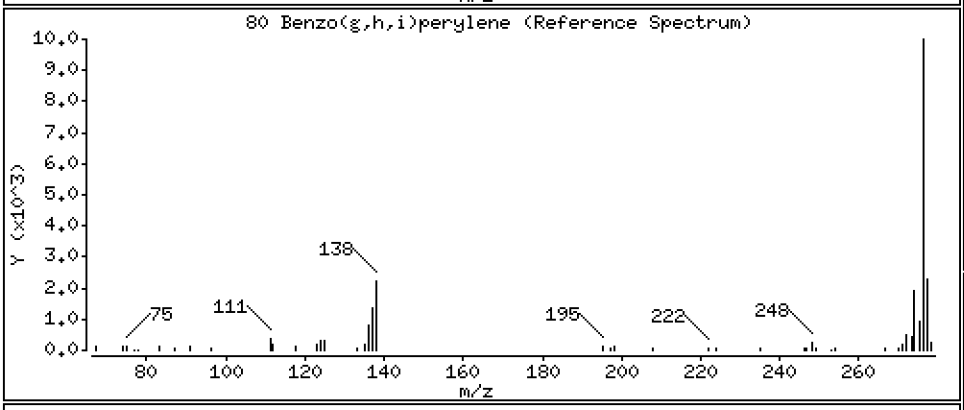
Column diameter: 0.25

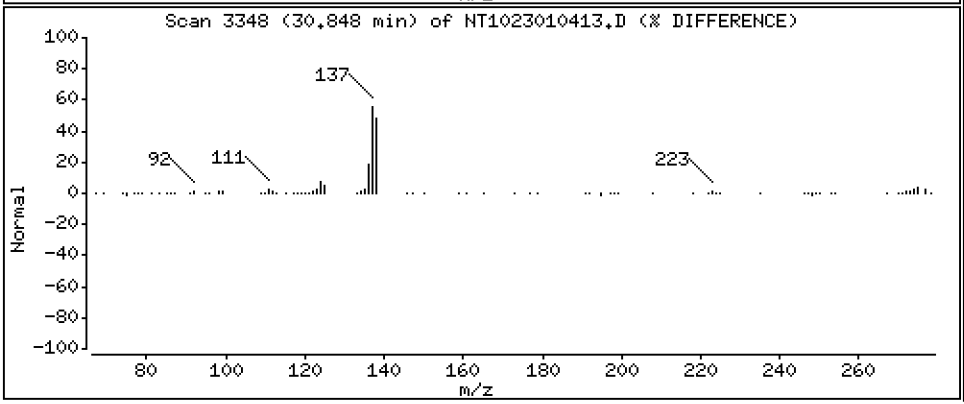
80 Benzo(g,h,i)perylene

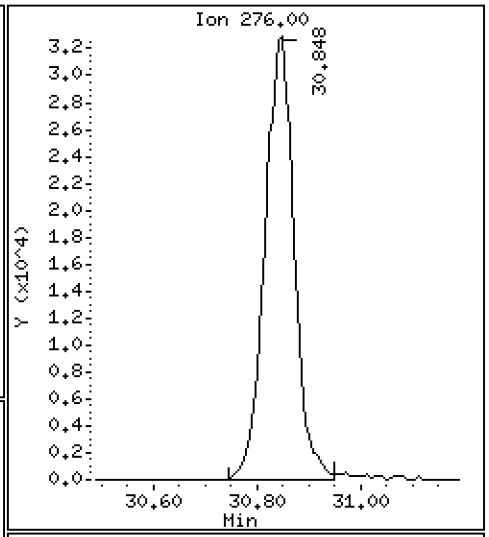
Concentration: 5.066 ug/mL

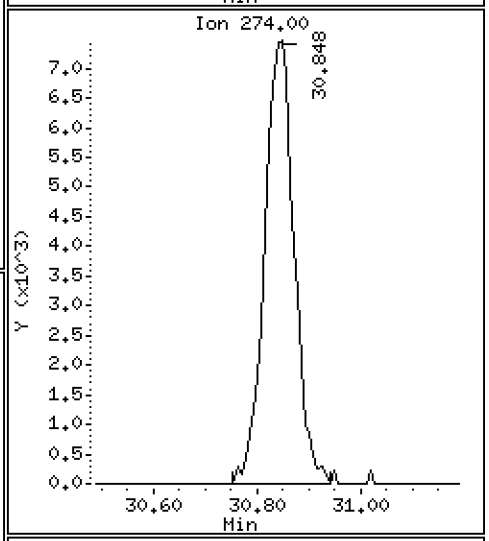


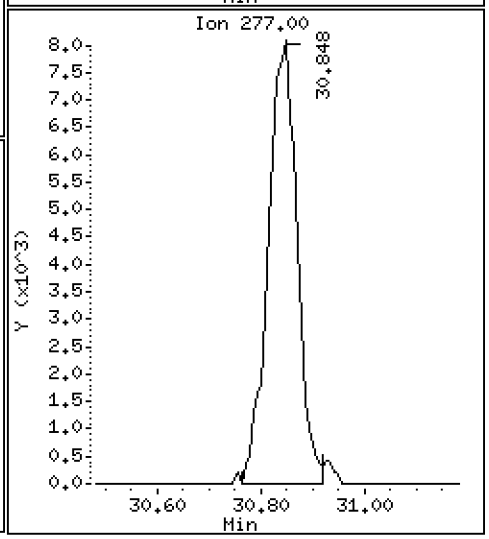












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

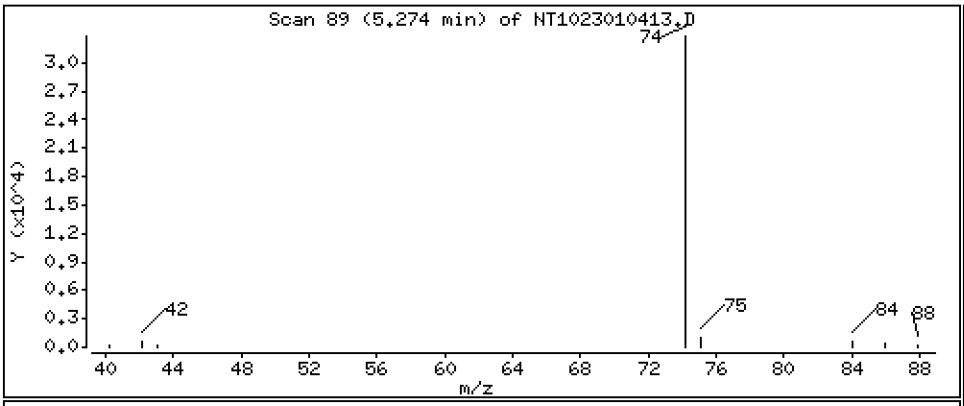
Operator: VTS

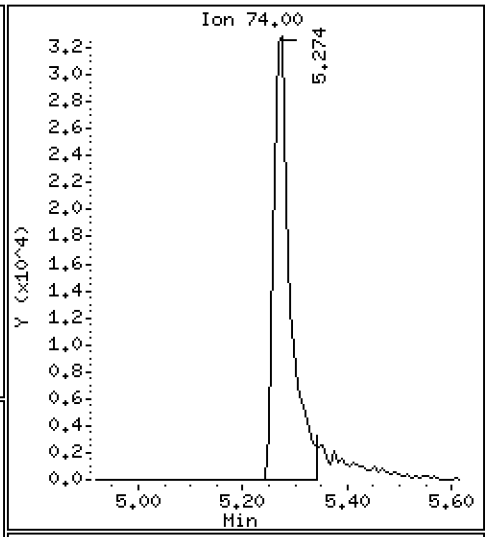
Column phase: ZB-5msi

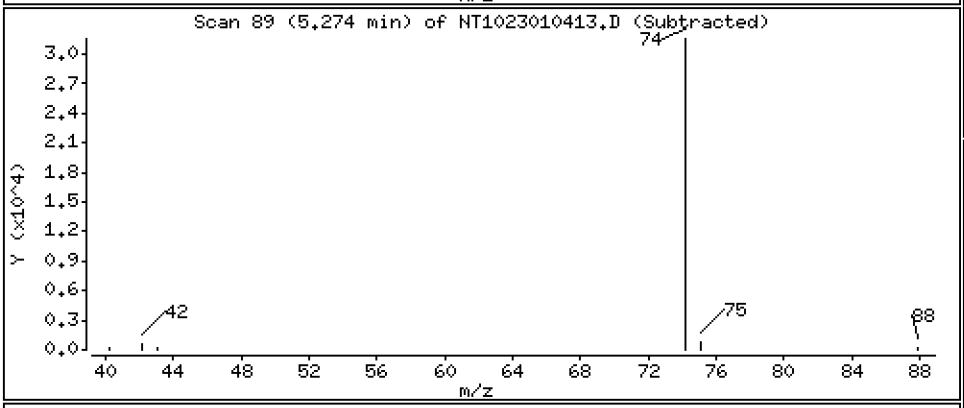
Column diameter: 0.25

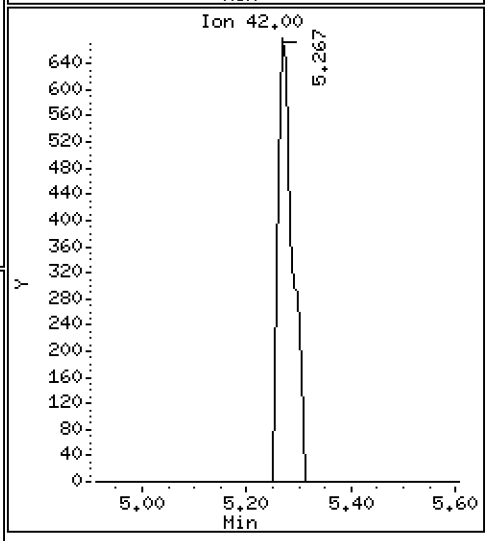
90 N-Nitrosodimethylamine

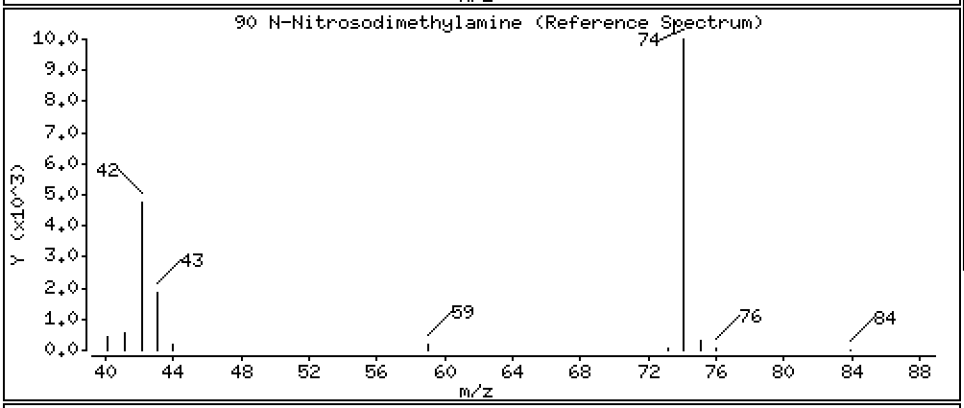
Concentration: 4.535 ug/mL

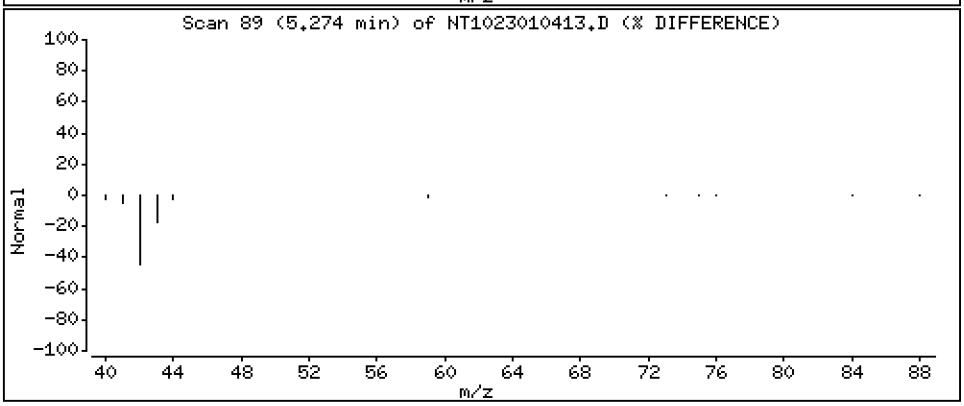












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

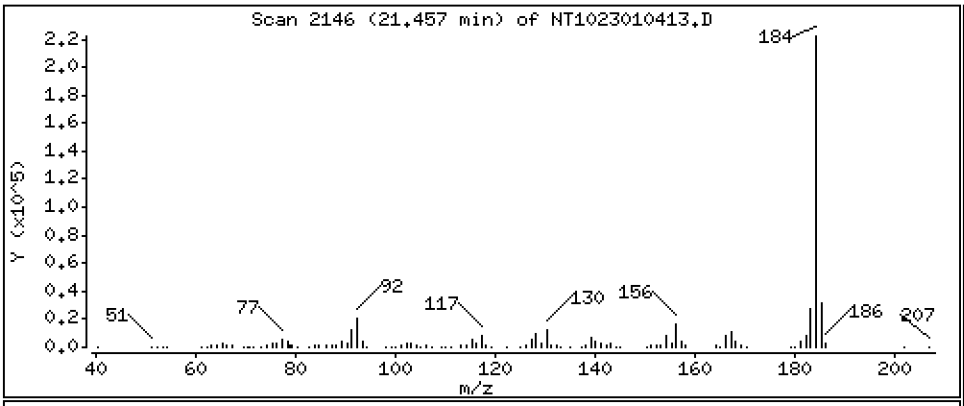
Operator: VTS

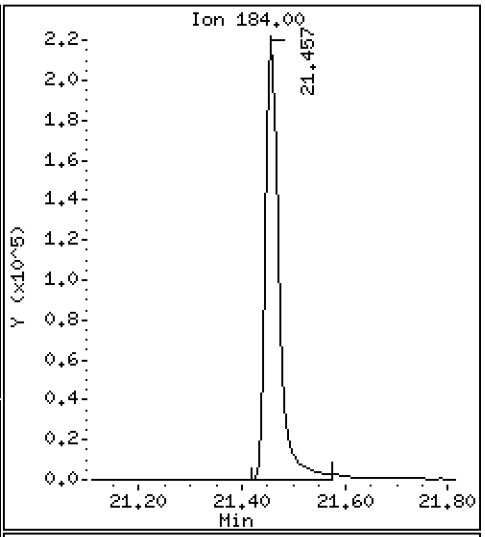
Column phase: ZB-5msi

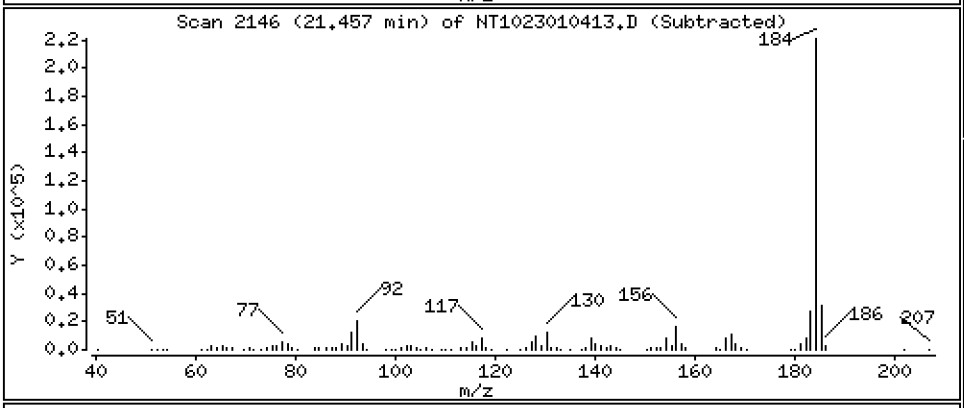
Column diameter: 0.25

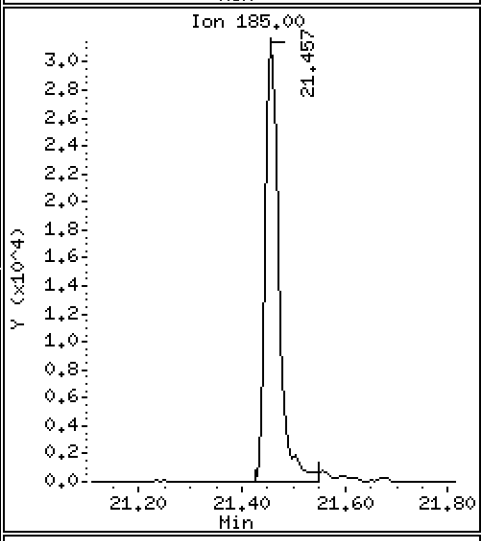
93 Benzidine

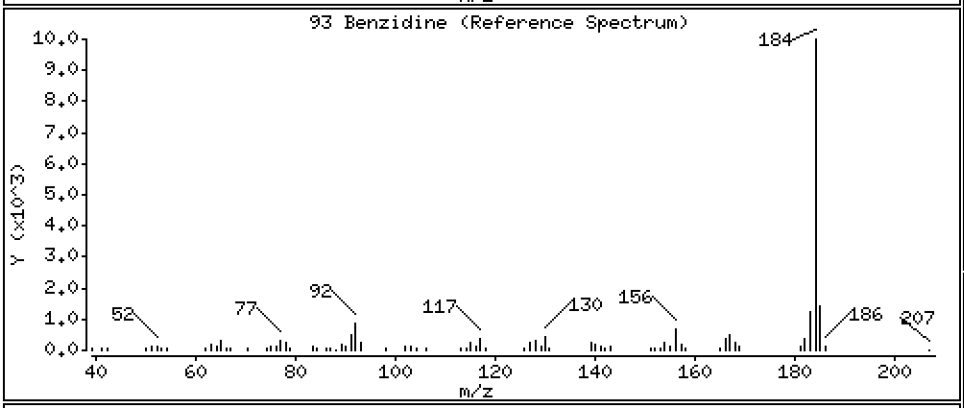
Concentration: 10.79 ug/mL

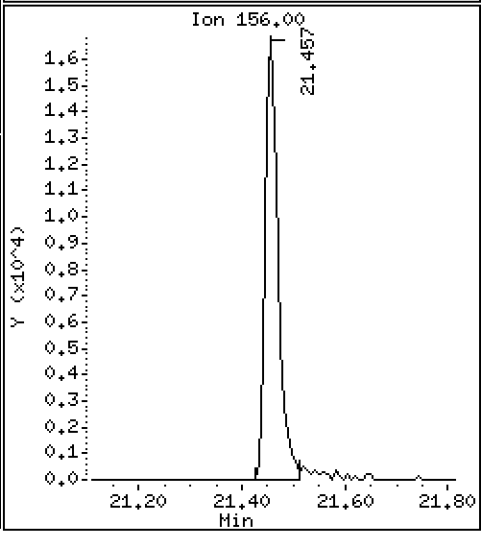


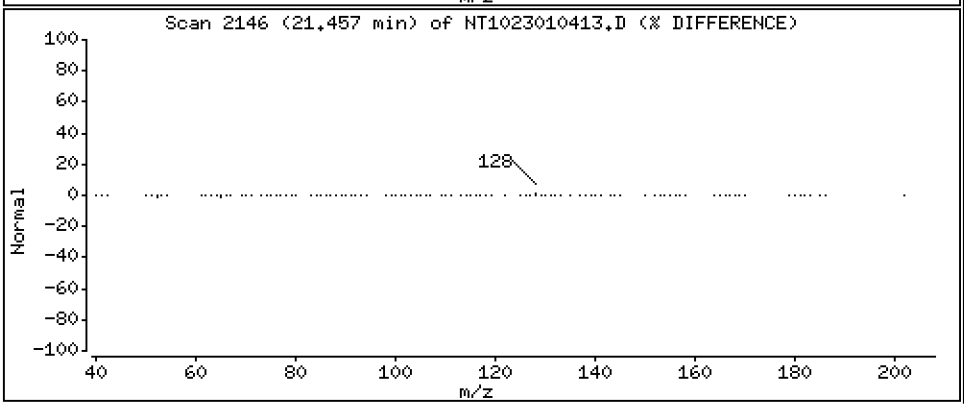












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

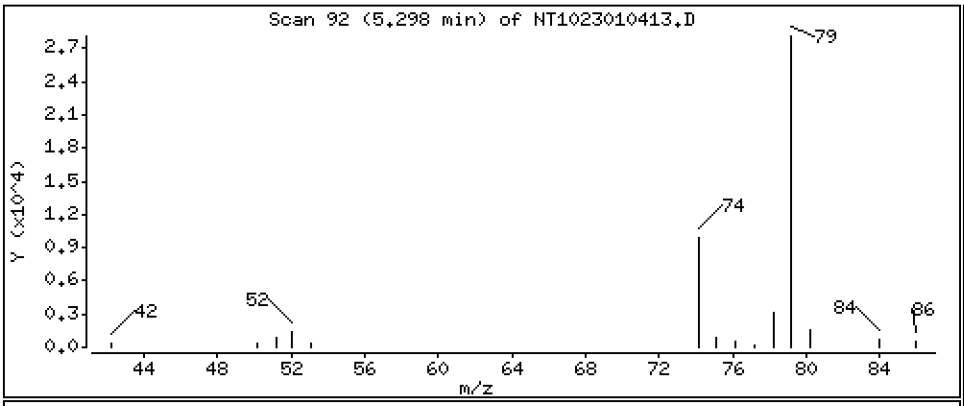
Operator: VTS

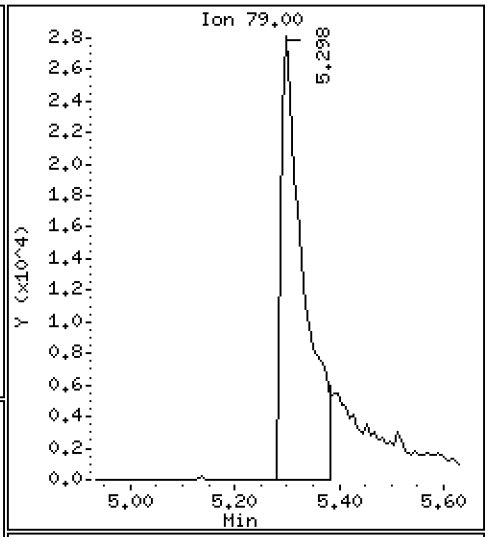
Column phase: ZB-5msi

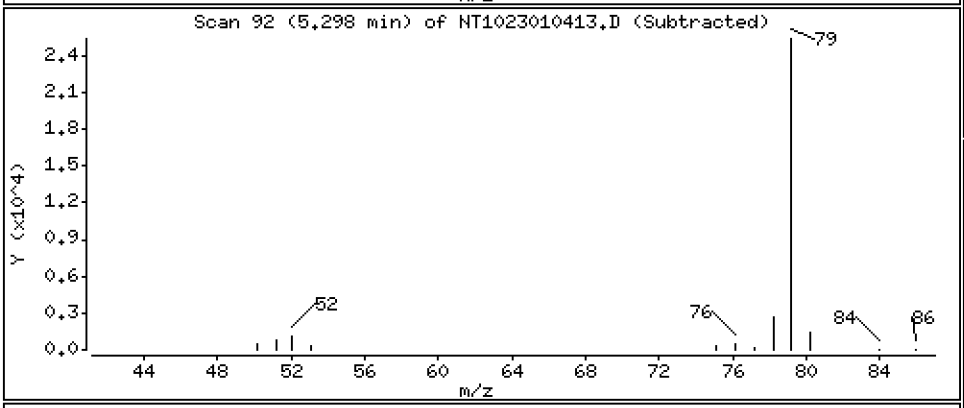
Column diameter: 0.25

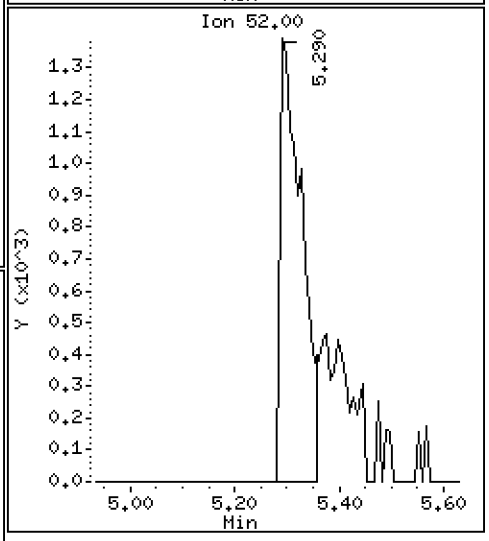
103 Pyridine

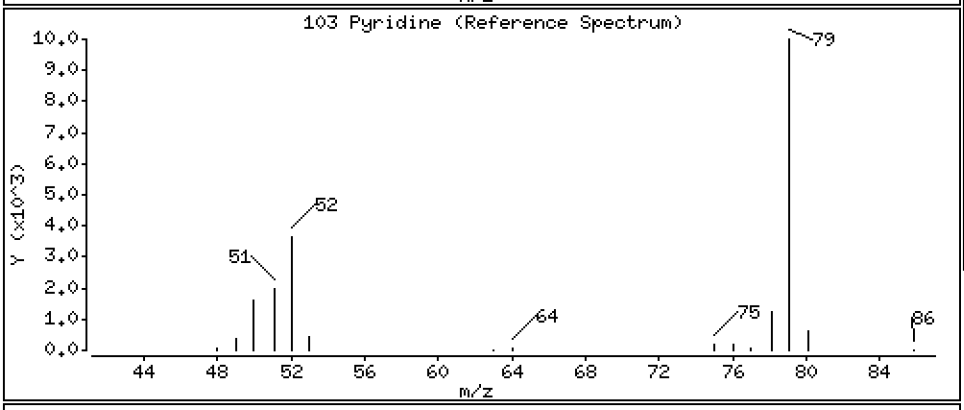
Concentration: 1.791 ug/mL

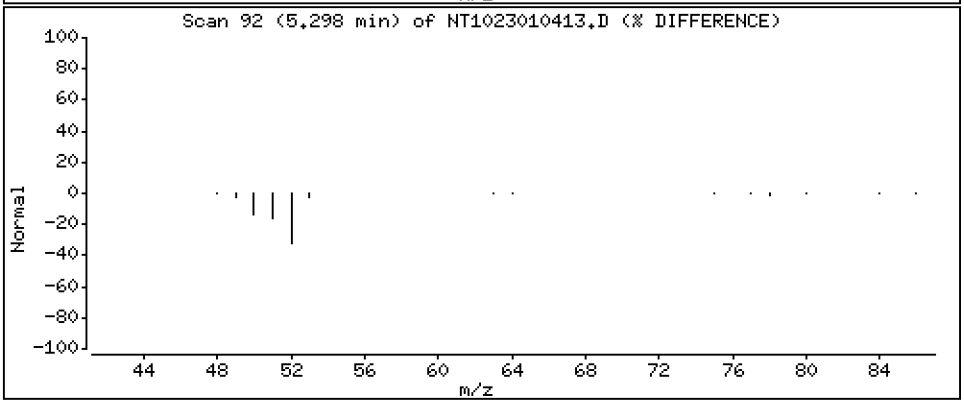












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

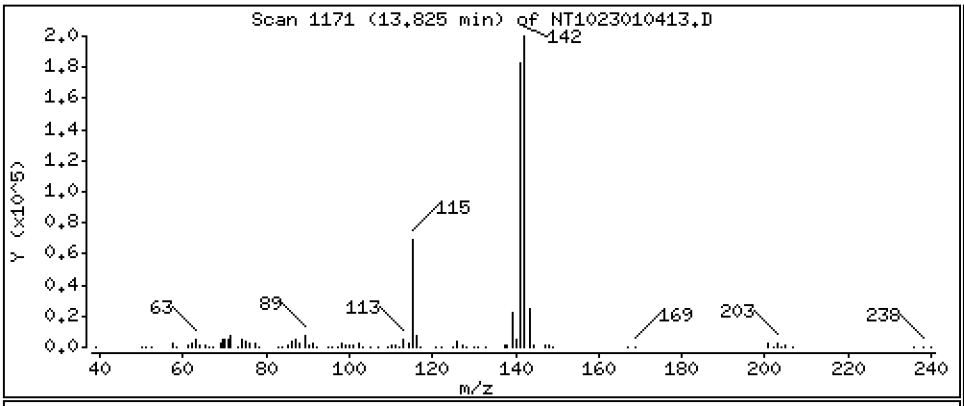
Operator: VTS

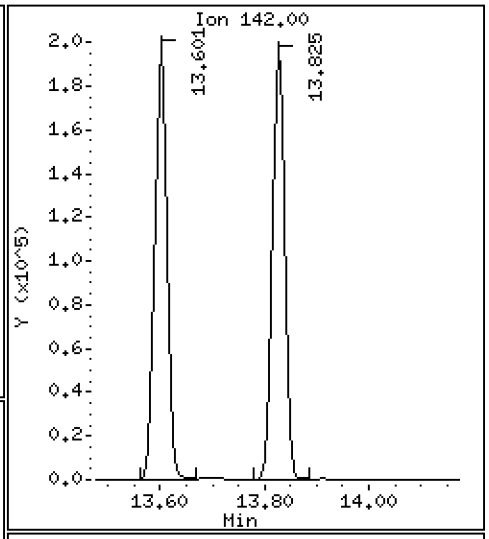
Column phase: ZB-5msi

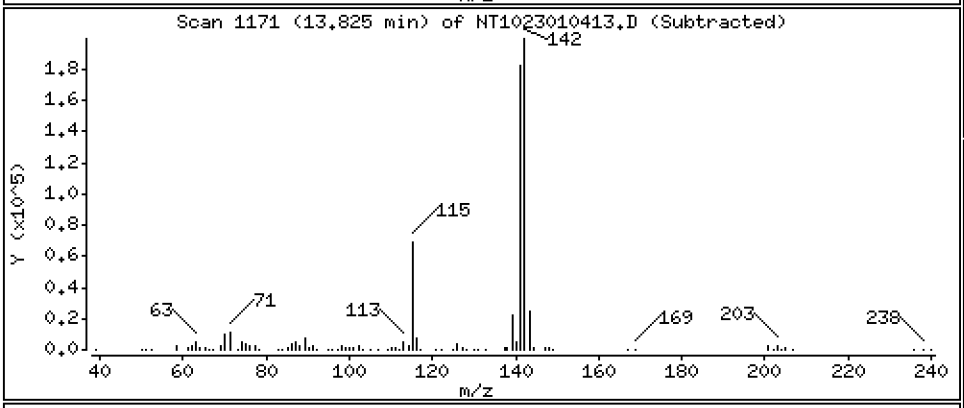
Column diameter: 0.25

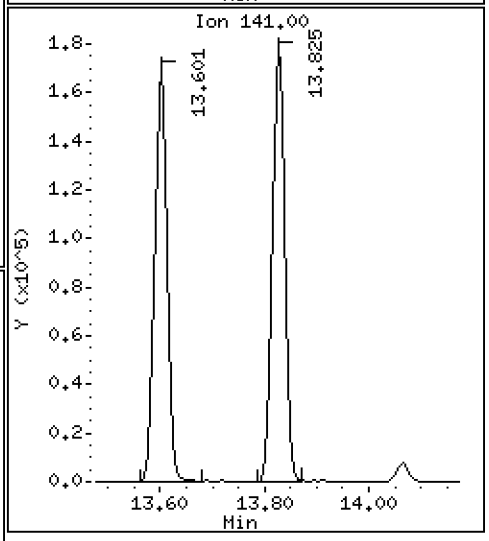
105 1-methylnaphthalene

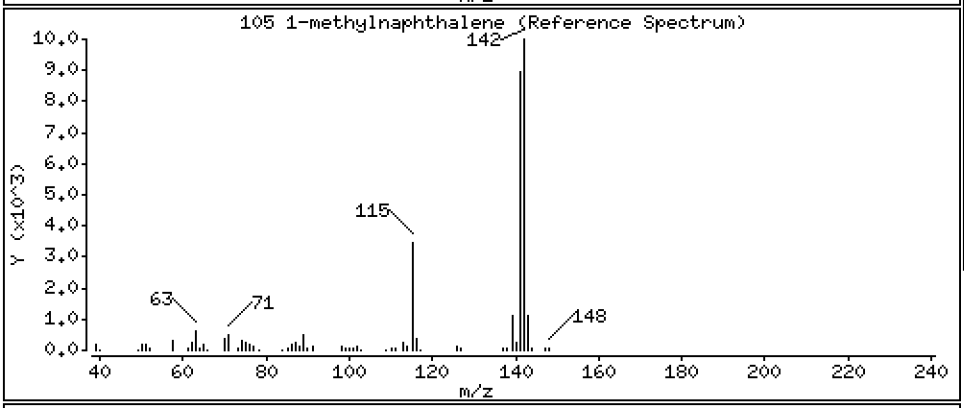
Concentration: 5.103 ug/mL

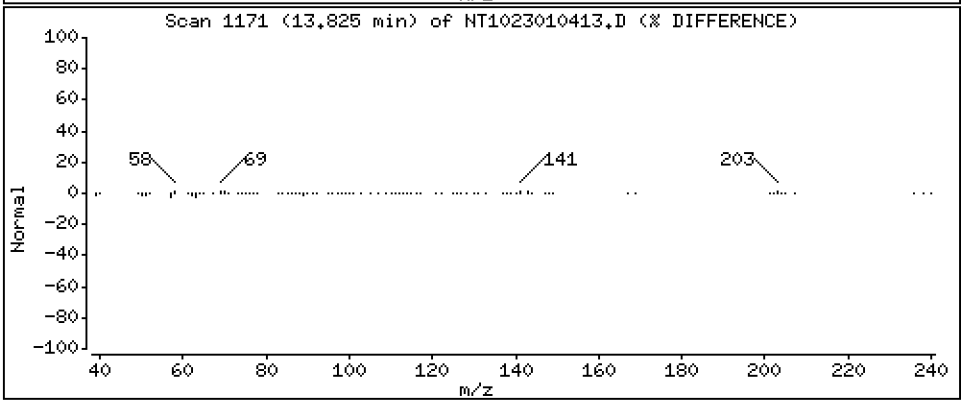












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

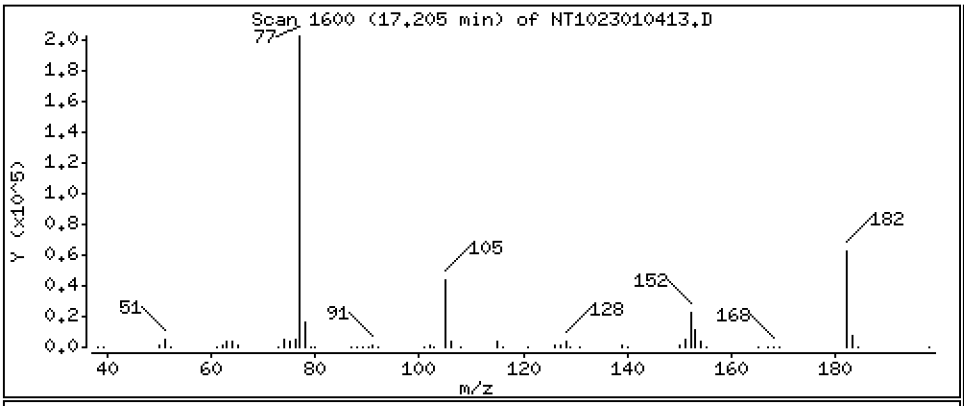
Operator: VTS

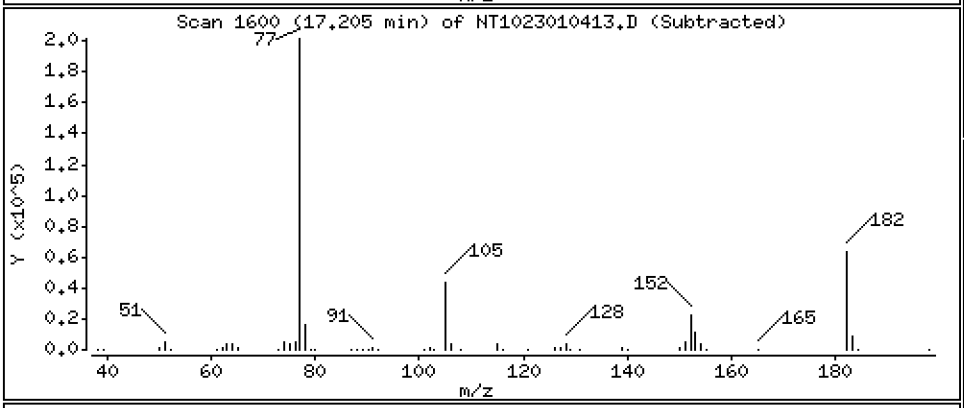
Column phase: ZB-5msi

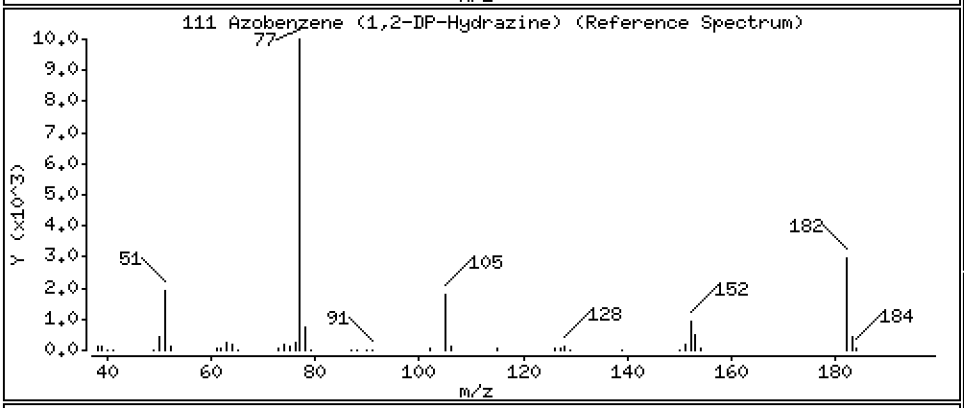
Column diameter: 0.25

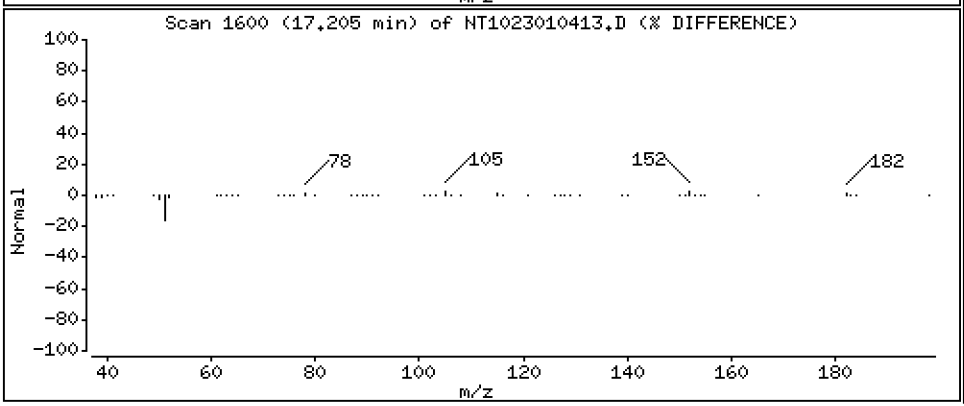
111 Azobenzene (1,2-DP-Hydrazine)

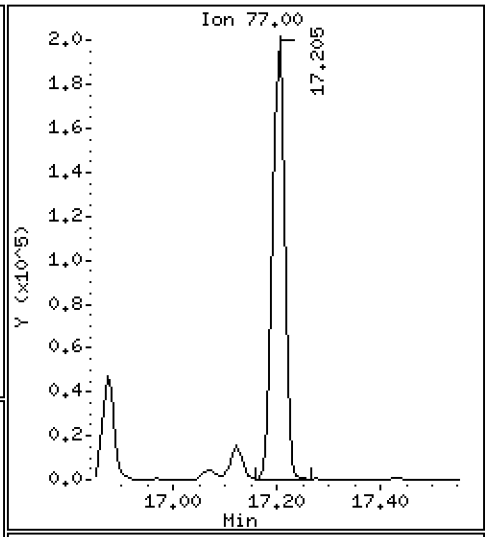
Concentration: 4.878 ug/mL

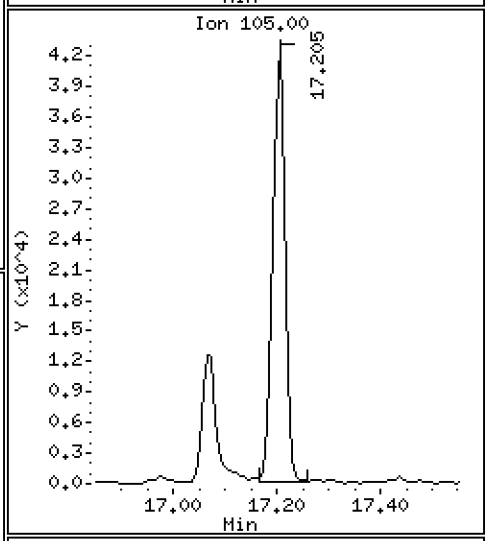


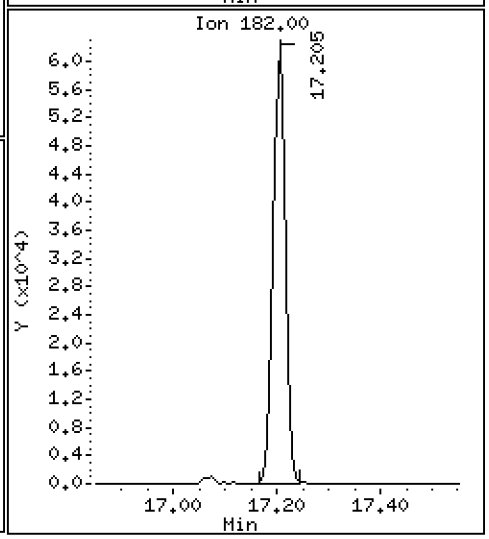












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Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

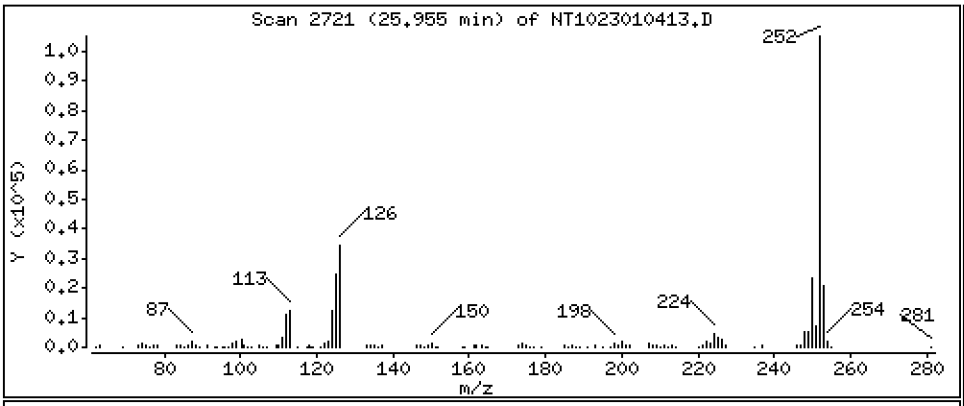
Operator: VTS

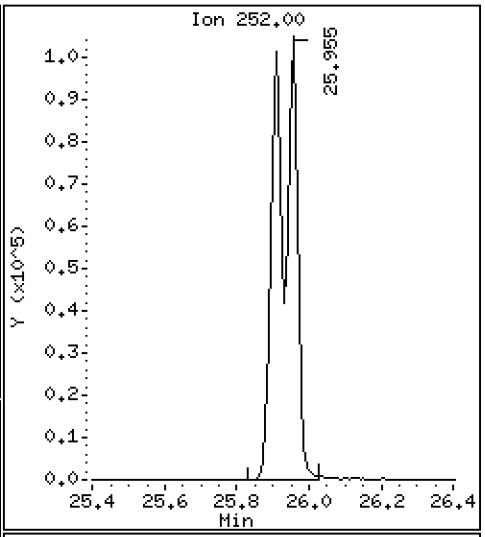
Column phase: ZB-5msi

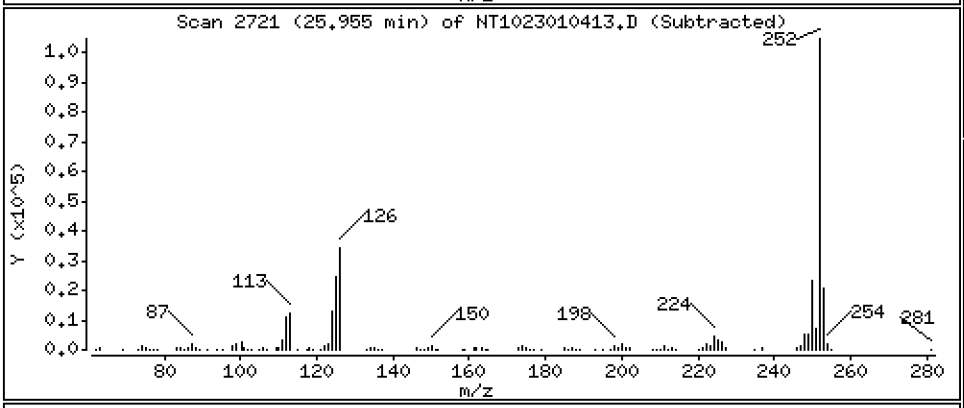
Column diameter: 0.25

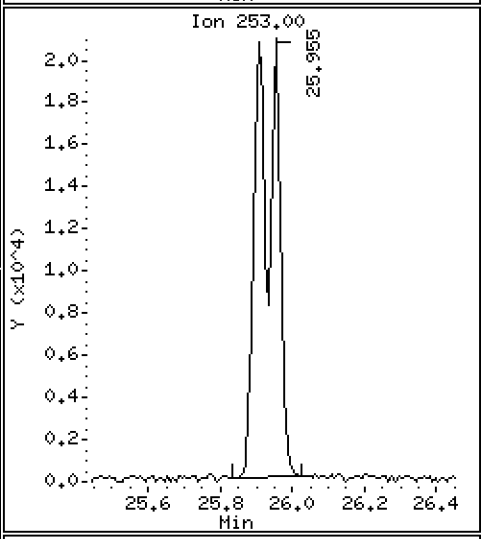
187 Total Benzofluoranthenes

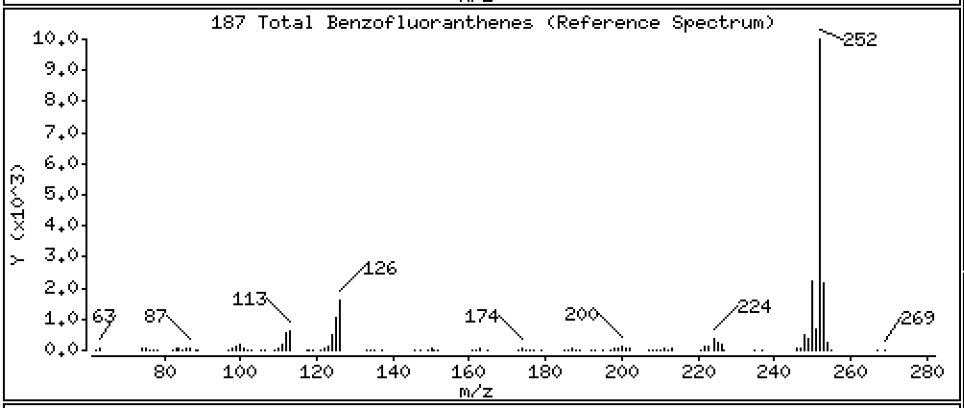
Concentration: 10.68 ug/mL

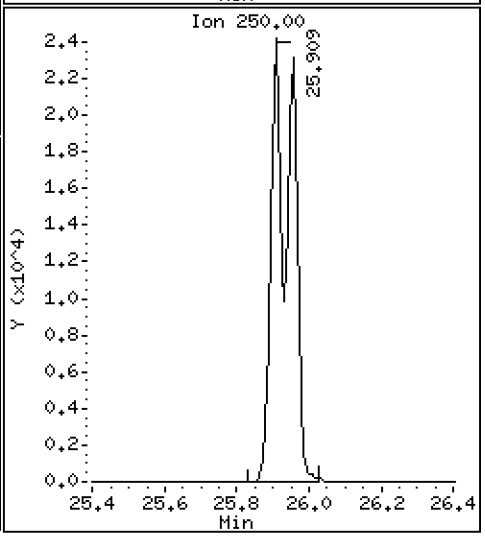


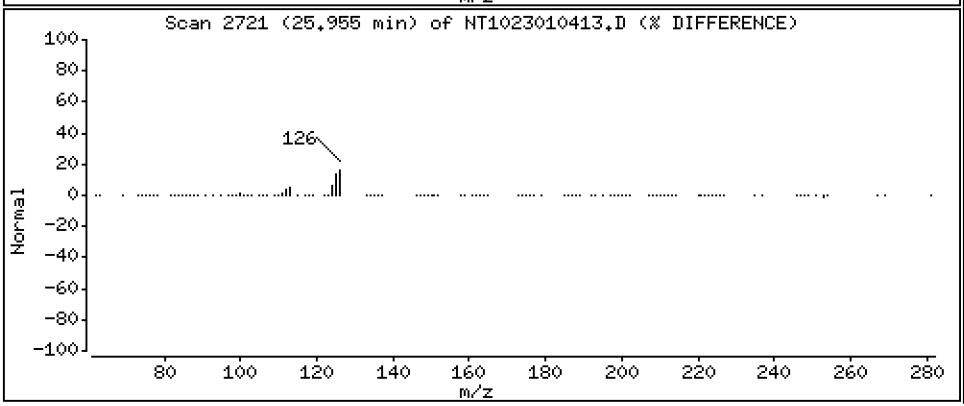












Data File: \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D

Date : 04-JAN-2023 16:58

Client ID:

Instrument: nt10.i

Sample Info: SLA0012-SCV1

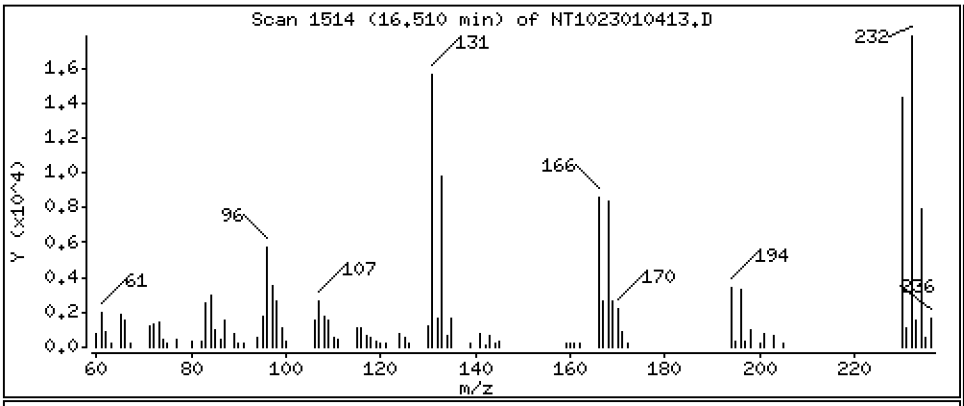
Operator: VTS

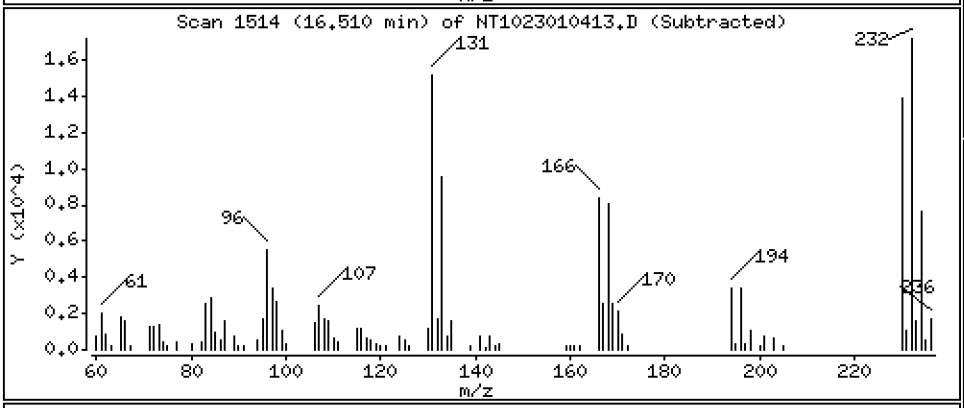
Column phase: ZB-5msi

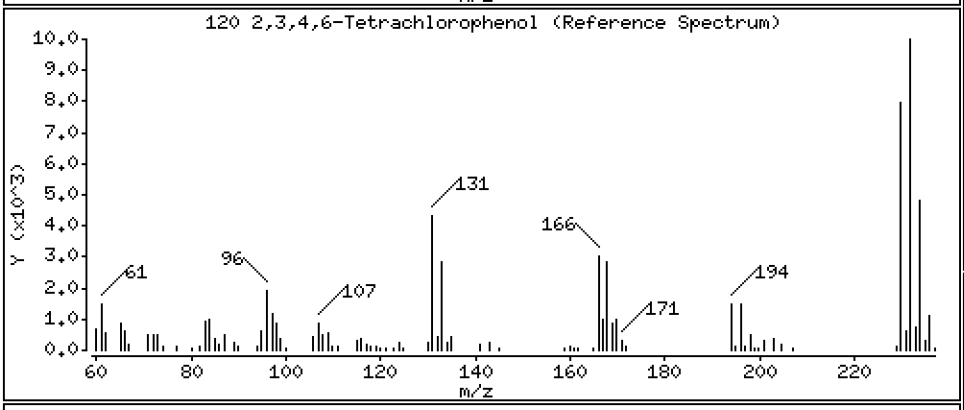
Column diameter: 0.25

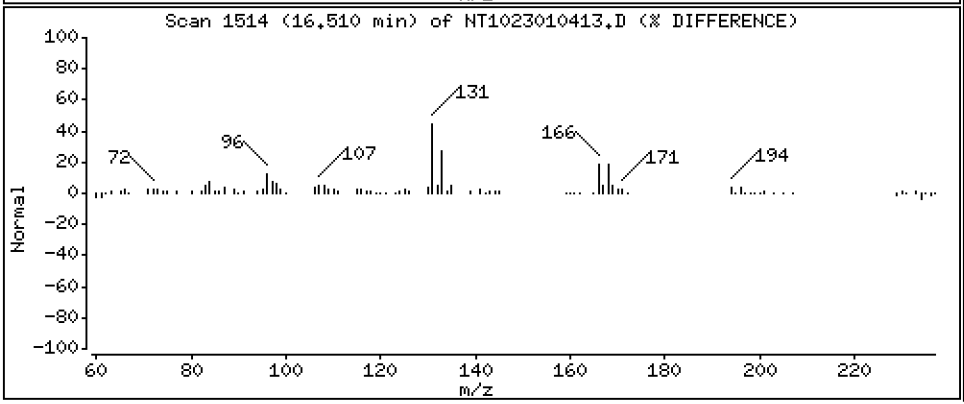
120 2,3,4,6-Tetrachlorophenol

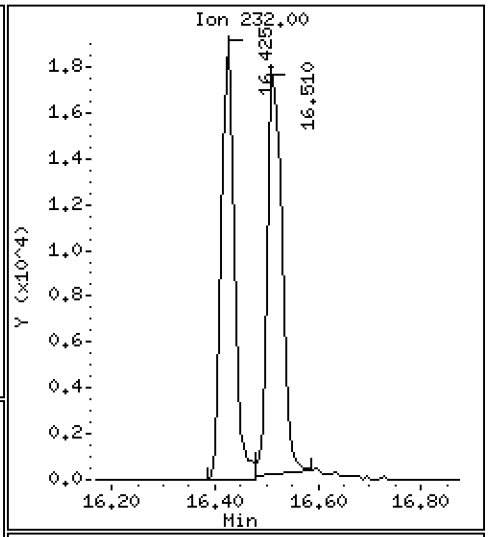
Concentration: 4.060 ug/mL

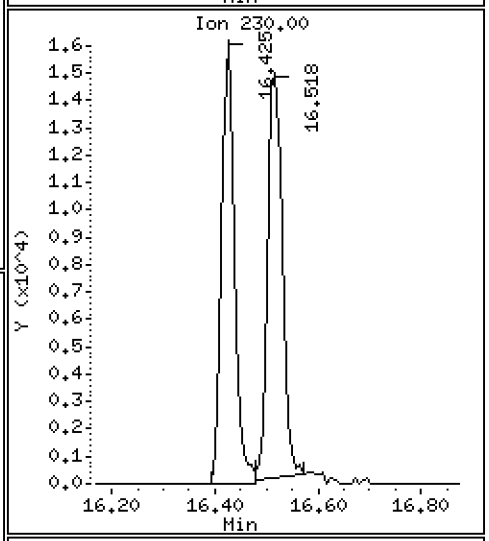


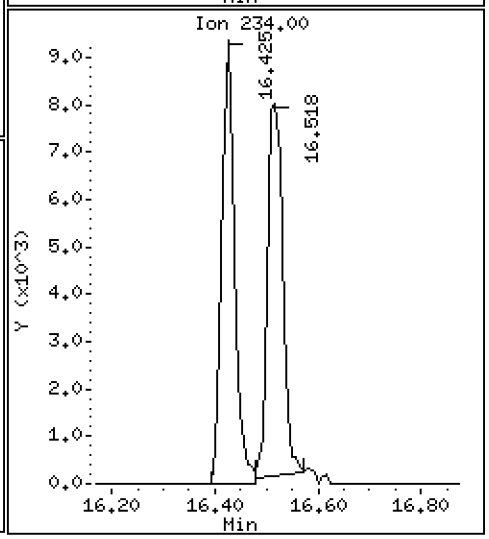












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230104.b\NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Inj Date : 04-JAN-2023 16:58
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0012-SCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230104.b\ABN.m
Meth Date : 05-Jan-2023 11:24 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 12
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	7.413	7.413	(0.767)	224715	7.64185	7.642
$	2 Phenol-d5	99	8.989	8.989	(0.930)	267575	7.58597	7.586
	3 Phenol	94	9.012	9.012	(0.933)	158785	4.71880	4.719
$	5 2-Chlorophenol-d4	132	9.298	9.298	(0.962)	258199	8.46951	8.470
	4 Bis(2-Chloroethyl)ether	93	9.190	9.190	(0.951)	138910	4.78072	4.781
	6 2-Chlorophenol	128	9.329	9.329	(0.966)	166488	5.15267	5.153
	7 1,3-Dichlorobenzene	146	9.607	9.607	(0.994)	170615	5.03039	5.030
*	8 1,4-Dichlorobenzene-d4	152	9.661	9.670	(1.000)	88595	4.00000	
	9 1,4-Dichlorobenzene	146	9.700	9.701	(1.004)	144841	4.96598	4.966
$	10 1,2-Dichlorobenzene-d4	152	10.034	10.034	(1.039)	99739	5.25220	5.252
	12 1,2-Dichlorobenzene	146	10.057	10.057	(1.041)	146003	4.93320	4.933
	11 Benzyl alcohol	108	9.925	9.925	(1.027)	74707	4.69913	4.699
	14 2,2'-oxybis(1-Chloropropane)	121	10.220	10.221	(1.058)	48379	5.55091	5.551
	13 2-Methylphenol	108	10.135	10.135	(1.049)	94252	4.16263	4.163
	17 Hexachloroethane	117	10.655	10.663	(1.103)	64725	5.05461	5.055
	16 N-Nitroso-di-n-propylamine	70	10.476	10.477	(1.084)	61755	5.18101	5.181
	15 4-Methylphenol	108	10.414	10.391	(1.078)	72303	4.57347	4.573
$	18 Nitrobenzene-d5	82	10.756	10.764	(0.884)	118184	5.02398	5.024
	19 Nitrobenzene	77	10.795	10.795	(0.888)	105765	4.93221	4.932
	20 Isophorone	82	11.237	11.237	(0.924)	224608	6.64004	6.640
	21 2-Nitrophenol	139	11.425	11.425	(0.939)	88380	4.47939	4.479
	22 2,4-Dimethylphenol	107	11.450	11.450	(0.942)	102048	3.77028	3.770
	23 Bis(2-Chloroethoxy)methane	93	11.654	11.654	(0.958)	148405	6.33196	6.332
	24 Benzoic acid	105	11.450	11.450	(0.942)	3528	0.31664	0.3166
	25 2,4-Dichlorophenol	162	11.883	11.883	(0.977)	106733	5.09782	5.098
	26 1,2,4-Trichlorobenzene	180	12.069	12.069	(0.992)	101894	4.51999	4.520
*	27 Naphthalene-d8	136	12.161	12.162	(1.000)	350423	4.00000	
	28 Naphthalene	128	12.208	12.208	(1.004)	397291	5.15594	5.156
	29 4-Chloroaniline	127	12.316	12.316	(1.013)	127702	4.19747	4.197
	30 Hexachlorobutadiene	225	12.555	12.556	(1.032)	40912	4.88362	4.884
	31 4-Chloro-3-methylphenol	107	13.260	13.260	(1.090)	100560	4.51499	4.515
	32 2-Methylnaphthalene	142	13.600	13.600	(1.118)	314685	5.16348	5.163
	33 Hexachlorocyclopentadiene	237	14.065	14.065	(0.891)	44657	5.17794	5.178

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	14.212	14.212	(0.900)	66043	4.94833	4.948
35	2,4,5-Trichlorophenol	196	14.289	14.289	(0.905)	66737	4.60726	4.607
$ 36	2-Fluorobiphenyl	172	14.374	14.374	(0.910)	321372	5.49371	5.494
37	2-Chloronaphthalene	162	14.599	14.599	(0.925)	281103	5.37875	5.379
38	2-Nitroaniline	65	14.838	14.846	(0.940)	38621	5.39121	5.391
39	Dimethylphthalate	163	15.256	15.257	(0.966)	255305	5.36151	5.362
40	Acenaphthylene	152	15.481	15.473	(0.980)	396090	5.27531	5.275
41	2,6-Dinitrotoluene	165	15.403	15.404	(0.975)	58941	5.44953	5.450
* 42	Acenaphthene-d10	164	15.790	15.791	(1.000)	157902	4.00000	
43	3-Nitroaniline	138	15.690	15.690	(0.994)	46796	6.03670	6.037
44	Acenaphthene	153	15.860	15.860	(1.004)	224711	5.39302	5.393
45	2,4-Dinitrophenol	184	15.914	15.914	(1.008)	8291	1.16138	1.161
46	Dibenzofuran	168	16.185	16.185	(1.025)	333559	5.26832	5.268
47	4-Nitrophenol	109	16.007	16.007	(1.014)	22311	3.88150	3.882
48	2,4-Dinitrotoluene	165	16.216	16.224	(1.027)	77451	5.33670	5.337
50	Diethylphthalate	149	16.718	16.718	(1.059)	281464	5.60445	5.604
49	Fluorene	166	16.904	16.896	(1.070)	476590	5.12741	5.127
51	4-Chlorophenyl-phenylether	204	16.873	16.873	(1.069)	145983	4.88992	4.890
52	4-Nitroaniline	138	16.973	16.973	(1.075)	112376	5.36280	5.363
53	4,6-Dinitro-2-methylphenol	198	17.073	17.066	(0.906)	46974	3.80822	3.808
54	N-Nitrosodiphenylamine	169	17.120	17.120	(0.909)	252742	4.69177	4.692
$ 55	2,4,6-Tribromophenol	330	17.436	17.436	(1.104)	19945	6.20177	6.202
56	4-Bromophenyl-phenylether	248	17.891	17.883	(0.950)	68834	4.85369	4.854
57	Hexachlorobenzene	284	18.215	18.215	(0.967)	49735	4.10084	4.101
58	Pentachlorophenol	266	18.594	18.579	(0.987)	94	0.04497	0.04497
* 59	Phenanthrene-d10	188	18.842	18.842	(1.000)	291036	4.00000	
60	Phenanthrene	178	18.888	18.888	(1.002)	354841	5.02544	5.025
61	Anthracene	178	18.989	18.981	(1.008)	313064	4.54195	4.542
62	Carbazole	167	19.298	19.299	(1.024)	358216	4.82289	4.823
63	Di-n-butylphthalate	149	20.049	20.049	(1.064)	530086	5.12976	5.130
64	Fluoranthene	202	21.248	21.240	(0.891)	410175	5.42517	5.425
65	Pyrene	202	21.673	21.666	(0.909)	413310	5.43802	5.438
$ 66	Terphenyl-d14	244	21.929	21.929	(0.919)	212848	4.87635	4.876
67	Butylbenzylphthalate	149	22.827	22.827	(0.957)	215268	5.29295	5.293
68	Benzo(a)anthracene	228	23.818	23.819	(0.999)	278522	5.36735	5.367
* 69	Chrysene-d12	240	23.849	23.850	(1.000)	180135	4.00000	
70	3,3'-Dichlorobenzidine	252	23.756	23.757	(0.996)	197513	10.5462	10.55
71	Chrysene	228	23.896	23.896	(1.002)	207879	4.66213	4.662
72	bis(2-Ethylhexyl)phthalate	149	23.849	23.842	(0.958)	355145	5.28072	5.281
* 134	Di-n-octylphthalate-d4	153	24.902	24.902	(1.000)	437929	4.00000	
73	Di-n-octylphthalate	149	24.918	24.910	(1.001)	511569	5.05159	5.052
74	Benzo(b)fluoranthene	252	25.909	25.901	(0.967)	225309	5.48784	5.488
75	Benzo(k)fluoranthene	252	25.955	25.955	(0.969)	207321	5.18288	5.183
76	Benzo(a)pyrene	252	26.667	26.660	(0.995)	210048	5.36509	5.365
* 77	Perylene-d12	264	26.799	26.791	(1.000)	113976	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.915	29.907	(1.116)	161089	5.23456	5.235
79	Dibenzo(a,h)anthracene	278	29.931	29.923	(1.117)	123610	5.11179	5.112
80	Benzo(g,h,i)perylene	276	30.847	30.840	(1.151)	128628	5.06607	5.066
90	N-Nitrosodimethylamine	74	5.274	5.266	(0.546)	72009	4.53535	4.535
91	Aniline	93	Compound Not Detected.					
93	Benzidine	184	21.457	21.457	(0.900)	383147	10.7938	10.79
103	Pyridine	79	5.297	5.282	(0.548)	84629	1.79057	1.791
105	1-methylnaphthalene	142	13.825	13.825	(1.137)	303889	5.10312	5.103
111	Azobenzene (1,2-DP-Hydrazine)	77	17.204	17.205	(1.090)	303783	4.87819	4.878

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.955	25.901	(0.969)	415058	10.6768	10.68
120 2,3,4,6-Tetrachlorophenol	232	16.509	16.517	(1.046)	32903	4.05990	4.060

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010413.D
Lab Smp Id: SLA0012-SCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230104.b\ABN.m
Misc Info:

Calibration Date: 04-JAN-2023
Calibration Time: 17:36
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	80982	40491	161964	88595	9.40
27 Naphthalene-d8	314194	157097	628388	350423	11.53
42 Acenaphthene-d10	149187	74594	298374	157902	5.84
59 Phenanthrene-d10	263157	131579	526314	291036	10.59
69 Chrysene-d12	165015	82508	330030	180135	9.16
134 Di-n-octylphthala	399023	199512	798046	437929	9.75
77 Perylene-d12	106456	53228	212912	113976	7.06

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.67	9.17	10.17	9.66	-0.08
27 Naphthalene-d8	12.16	11.66	12.66	12.16	-0.00
42 Acenaphthene-d10	15.79	15.29	16.29	15.79	-0.00
59 Phenanthrene-d10	18.84	18.34	19.34	18.84	-0.00
69 Chrysene-d12	23.85	23.35	24.35	23.85	-0.00
134 Di-n-octylphthala	24.90	24.40	25.40	24.90	-0.00
77 Perylene-d12	26.79	26.29	27.29	26.80	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010413.D

Lab ID: SLA0012-SCV1
nt10.i, ABN.m, 04-JAN-2023 16:58

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010414.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010518.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/06/23
Lab Sample ID:	SLA0061-CCV1	Injection Time:	00:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	5.0000	5.1	1.4044630	1.5434670		1.3	+/-50	
bis(2-chloroethyl) ether	A	5.0000	4.5	1.3118710	1.1727350		-10.6	+/-50	
2-Chlorophenol	A	5.0000	5.3	1.4588200	1.5362500		5.3	+/-50	
1,3-Dichlorobenzene	A	5.0000	4.8	1.5313200	1.4807180		-3.3	+/-50	
1,4-Dichlorobenzene	A	5.0000	4.7	1.3168520	1.2427430		-5.6	+/-50	
1,2-Dichlorobenzene	A	5.0000	4.8	1.3362390	1.2899480		-3.5	+/-50	
Benzyl Alcohol	A	5.0000	5.3	0.5973505	0.7599347		5.2	+/-50	
2,2'-Oxybis(1-chloropropane)	A	5.0000	4.8	0.3934987	0.3768490		-4.2	+/-50	
2-Methylphenol	A	5.0000	5.4	1.0215070	1.1087130		7.2	+/-50	
Hexachloroethane	A	5.0000	4.6	0.5781425	0.5374041		-7.0	+/-50	
N-Nitroso-di-n-Propylamine	A	5.0000	5.3	0.5381567	0.5700354		5.9	+/-50	
4-Methylphenol	A	5.0000	6.0	0.7393577	0.8729143		19.9	+/-50	
Nitrobenzene	A	5.0000	5.1	0.2419063	0.2517550		2.6	+/-50	
Isophorone	A	5.0000	5.0	0.3567252	0.3807922		0.6	+/-50	
2-Nitrophenol	A	5.0000	4.9	0.2032345	0.2195962		-3.0	+/-50	
2,4-Dimethylphenol	A	10.000	10.1	0.3089571	0.3114364		0.8	+/-50	
Bis(2-Chloroethoxy)methane	A	5.0000	5.1	0.2675330	0.2703428		1.1	+/-50	
2,4-Dichlorophenol	A	10.000	10.6	0.2172906	0.2584493		6.1	+/-50	
1,2,4-Trichlorobenzene	A	5.0000	5.1	0.2573230	0.2627663		2.1	+/-50	
Naphthalene	A	5.0000	4.8	0.8795663	0.8525538		-3.1	+/-50	
Benzoic acid	A	20.000	16.0	0.0729753	0.1071450		-20.0	+/-50	
4-Chloroaniline	A	10.000	10.2	0.3408285	0.3681989		2.3	+/-50	
Hexachlorobutadiene	A	5.0000	5.0	0.0956260	0.0960746		0.5	+/-50	
4-Chloro-3-Methylphenol	A	10.000	10.2	0.2294921	0.2676477		1.9	+/-50	
2-Methylnaphthalene	A	5.0000	4.9	0.6956659	0.6814040		-2.1	+/-50	
Hexachlorocyclopentadiene	A	10.000	4.5	0.1879345	0.0985983		-54.7	+/-50	*
2,4,6-Trichlorophenol	A	10.000	10.4	0.2960164	0.3585120		4.0	+/-50	
2,4,5-Trichlorophenol	A	10.000	10.6	0.3120060	0.3969211		5.7	+/-50	
2-Chloronaphthalene	A	5.0000	5.0	1.3239040	1.3222470		-0.1	+/-50	
2-Nitroaniline	A	10.000	10.7	0.1611951	0.1999646		7.1	+/-50	
Acenaphthylene	A	5.0000	4.9	1.9020330	1.8531460		-2.6	+/-50	
Dimethylphthalate	A	5.0000	5.0	1.2062690	1.1990730		-0.6	+/-50	
2,6-Dinitrotoluene	A	10.000	9.9	0.2739875	0.2705173		-1.3	+/-50	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010518.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/06/23
Lab Sample ID:	SLA0061-CCV1	Injection Time:	00:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Acenaphthene	A	5.0000	4.9	1.0555160	1.0393040		-1.5	+/-50
3-Nitroaniline	A	10.000	10.3	0.2397950	0.2097277		3.5	+/-50
2,4-Dinitrophenol	A	20.000	17.6	0.1289526	0.1665479		-11.8	+/-50
Dibenzofuran	A	5.0000	4.7	1.6038830	1.5138590		-5.6	+/-50
4-Nitrophenol	A	10.000	9.5	0.1495319	0.1427619		-5.5	+/-50
2,4-Dinitrotoluene	A	10.000	10.2	0.3676432	0.3764434		2.4	+/-50
Fluorene	A	5.0000	5.2	2.3546130	2.4541760		4.2	+/-50
4-Chlorophenylphenyl ether	A	5.0000	4.6	0.7562631	0.6936490		-8.3	+/-50
Diethyl phthalate	A	5.0000	5.1	1.2805980	1.3001900		2.2	+/-50
4-Nitroaniline	A	10.000	10.7	0.4852205	0.5795054		7.0	+/-50
4,6-Dinitro-2-methylphenol	A	20.000	20.9	0.1290933	0.1838413		4.7	+/-50
N-Nitrosodiphenylamine	A	5.0000	4.7	0.7403786	0.7032653		-5.0	+/-50
4-Bromophenyl phenyl ether	A	5.0000	5.0	0.1949145	0.1942350		-0.3	+/-50
Hexachlorobenzene	A	5.0000	4.3	0.1666873	0.1420010		-14.8	+/-50
Pentachlorophenol	A	10.000	11.7	0.0286214	0.0363844		16.6	+/-50
Phenanthrene	A	5.0000	4.9	0.9704501	0.9522982		-1.9	+/-50
Anthracene	A	5.0000	5.0	0.9473360	0.9489021		0.2	+/-50
Carbazole	A	5.0000	5.1	1.0208240	1.0366920		1.6	+/-50
Di-n-Butylphthalate	A	5.0000	5.2	1.3659470	1.4902430		4.8	+/-50
Fluoranthene	A	5.0000	4.8	1.7525480	1.5861830		-4.6	+/-50
Pyrene	A	5.0000	5.0	1.8193730	1.6618220		-0.8	+/-50
Butylbenzylphthalate	A	5.0000	5.1	0.9455969	0.9153987		1.6	+/-50
Benzo(a)anthracene	A	5.0000	4.7	1.2329510	1.0739350		-5.9	+/-50
3,3'-Dichlorobenzidine	A	15.000	14.4	0.4473353	0.4070230		-3.9	+/-50
Chrysene	A	5.0000	4.7	0.9901209	0.9243370		-6.6	+/-50
bis(2-Ethylhexyl)phthalate	A	5.0000	5.1	0.6142836	0.6265230		2.0	+/-50
Di-n-Octylphthalate	A	5.0000	4.8	0.9249794	0.8795879		-4.9	+/-50
Benzofluoranthenes, Total	A	10.000	9.8	1.3643130	1.3374220		-2.0	+/-50
Benzo(a)pyrene	A	5.0000	4.8	1.3740040	1.3300900		-3.2	+/-50
Indeno(1,2,3-cd)pyrene	A	5.0000	3.6	1.0800220	0.7817774		-27.6	+/-50
Dibenzo(a,h)anthracene	A	5.0000	4.1	0.8486470	0.6879307		-18.9	+/-50
Benzo(g,h,i)perylene	A	5.0000	3.4	0.8910674	0.6001010		-32.7	+/-50
1-Methylnaphthalene	A	5.0000	4.9	0.6797458	0.6662795		-2.0	+/-50
2-Fluorophenol	A	7.5000	7.68	1.1160130	1.3591000		2.3	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010518.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/06/23
Lab Sample ID:	SLA0061-CCV1	Injection Time:	00:17
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	7.68	1.4242540	1.6321600		2.4	+/-50
2-Chlorophenol-d4	A	7.5000	8.10	1.3764080	1.4871510		8.0	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	4.99	0.8573826	0.8550313		-0.3	+/-50
Nitrobenzene-d5	A	5.0000	5.13	0.2588694	0.2757786		2.6	+/-50
2-Fluorobiphenyl	A	5.0000	5.05	1.4818850	1.4955830		0.9	+/-50
2,4,6-Tribromophenol	A	7.5000	7.19	0.0688448	0.0787662		-4.2	+/-50
p-Terphenyl-d14	A	5.0000	4.68	0.9692527	0.9068200		-6.4	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010518.D

Date : 06-JAN-2023 00:17

Client ID:

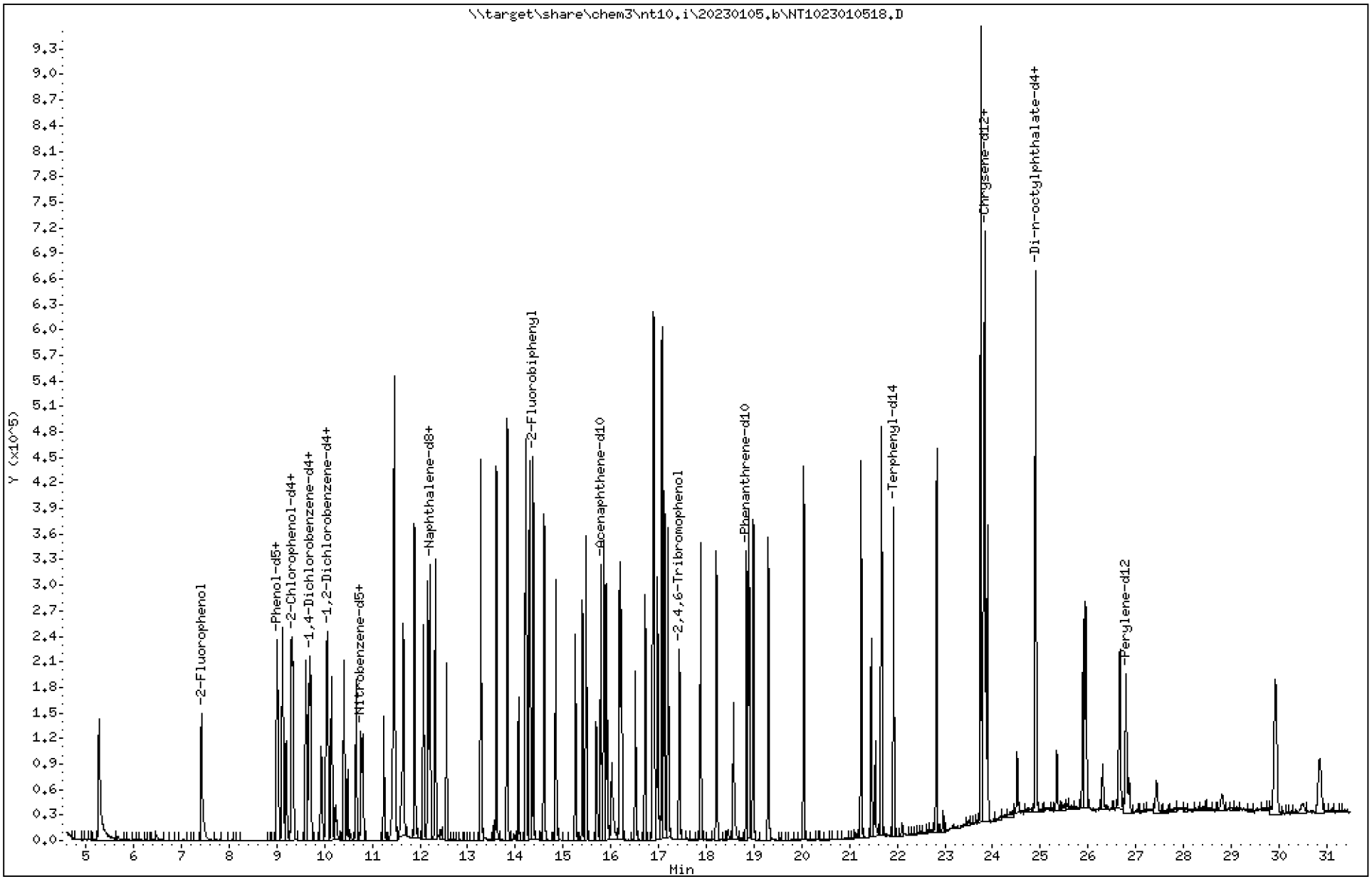
Instrument: nt10.i

Sample Info: SLA0061-CCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 3297 of 5449

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010518.D

Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

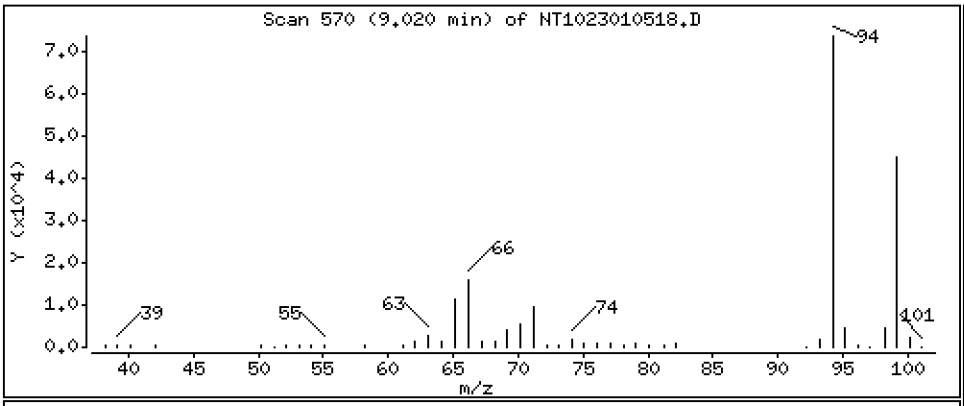
Operator: VTS

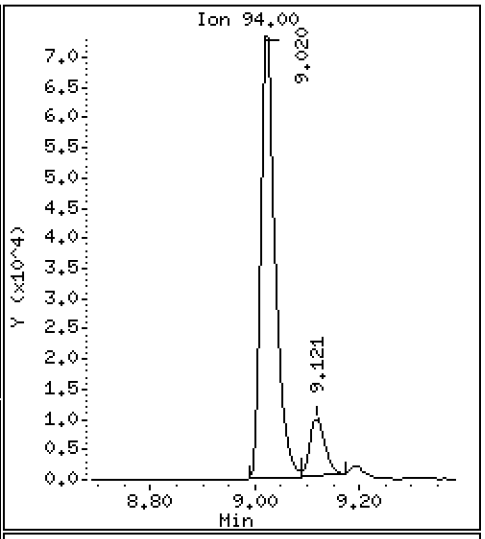
Column phase: ZB-5msi

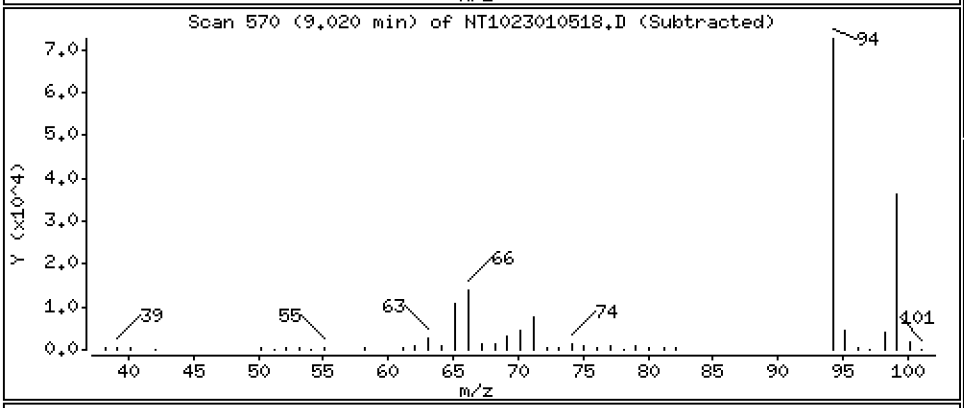
Column diameter: 0.25

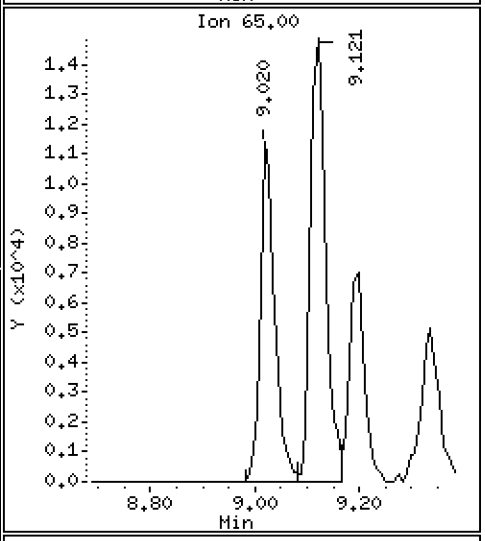
3 Phenol

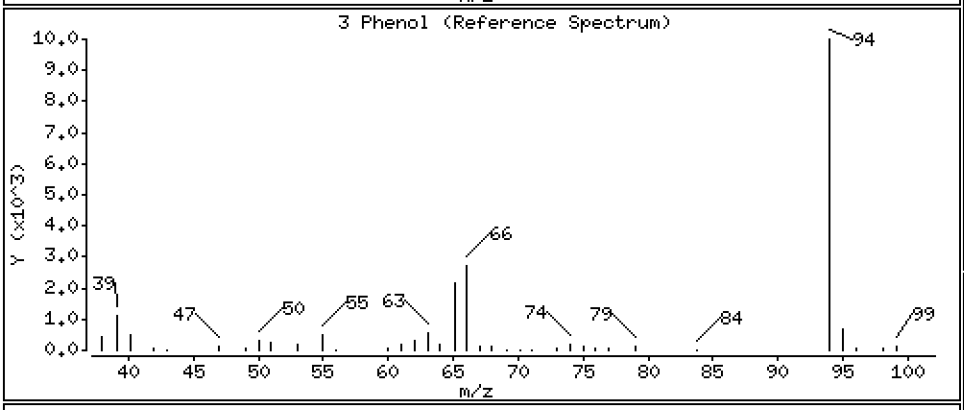
Concentration: 5.065 ug/mL

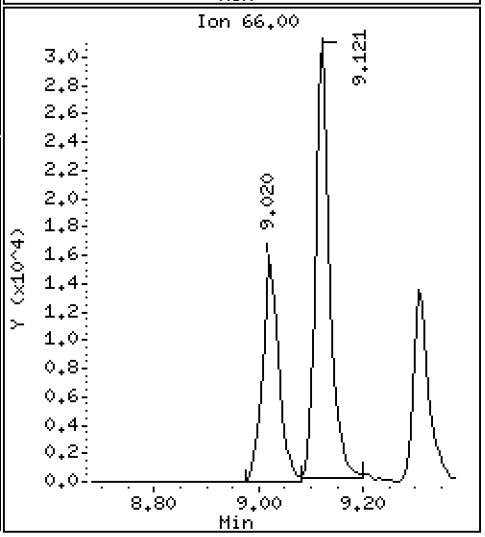


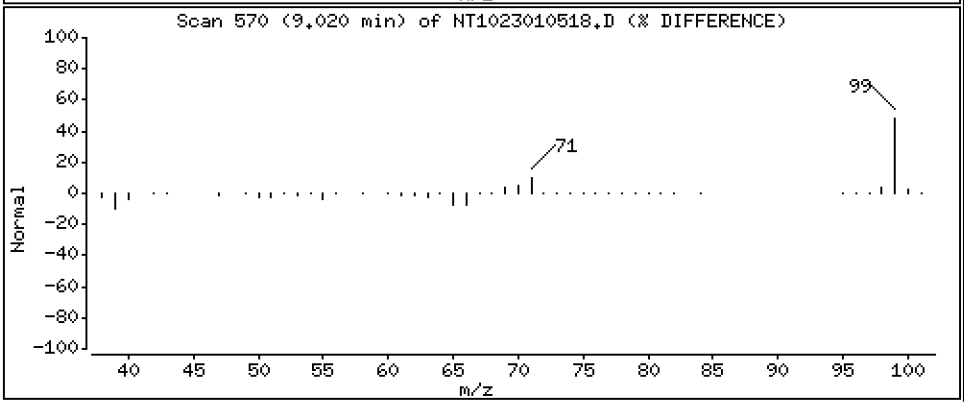












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

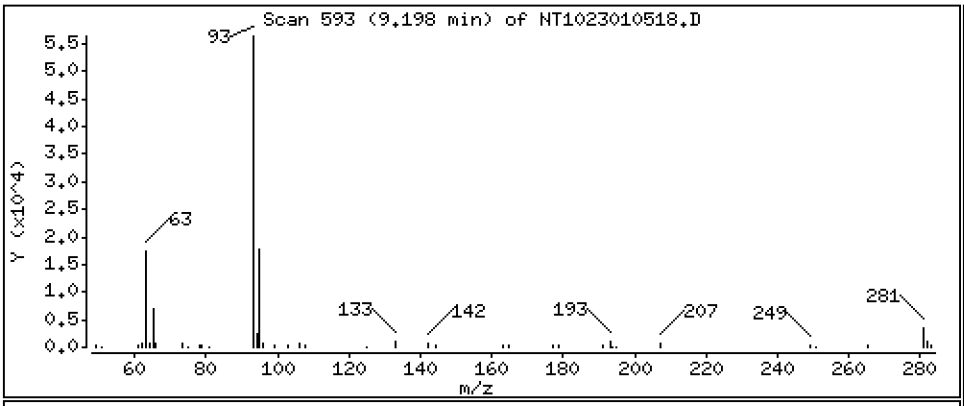
Operator: VTS

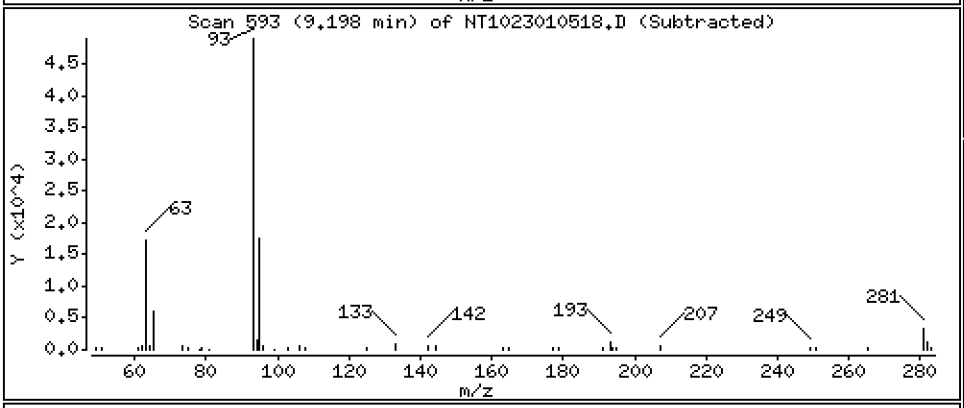
Column phase: ZB-5msi

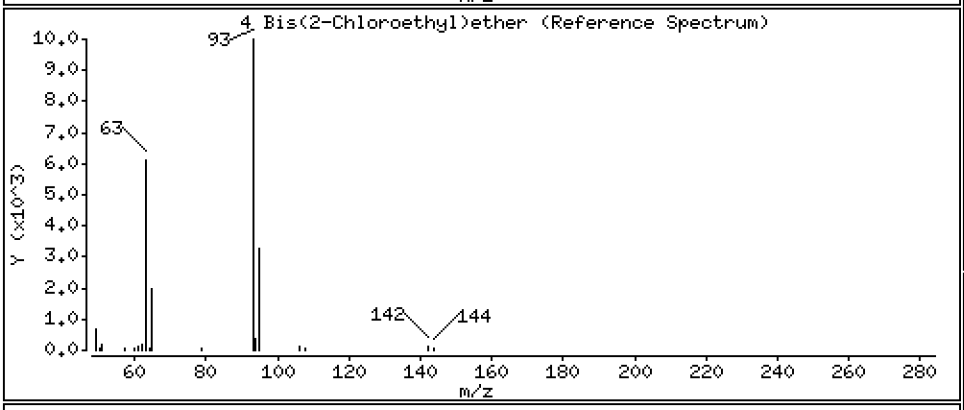
Column diameter: 0.25

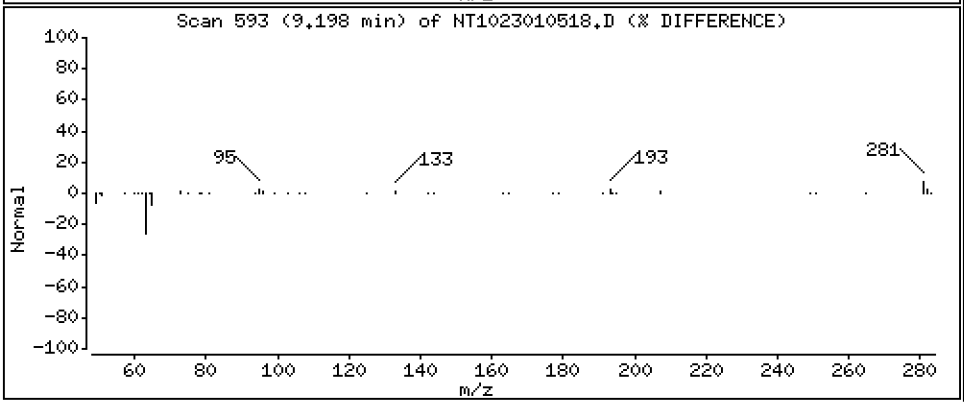
4 Bis(2-Chloroethyl)ether

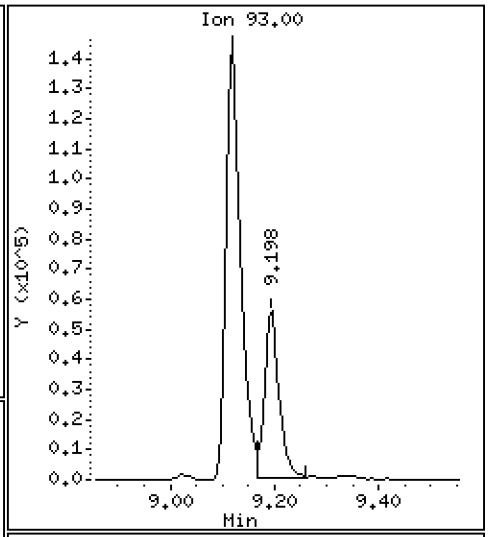
Concentration: 4.470 ug/mL

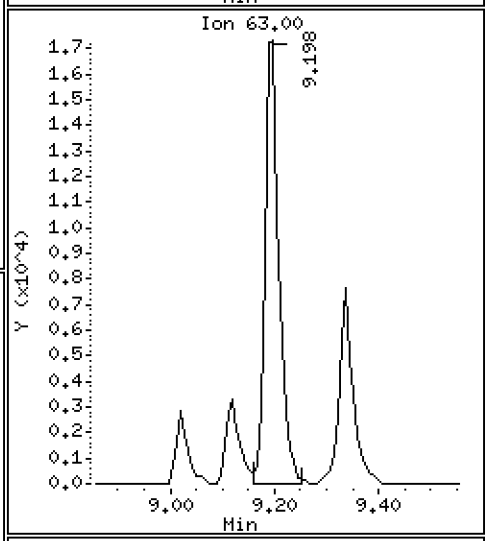


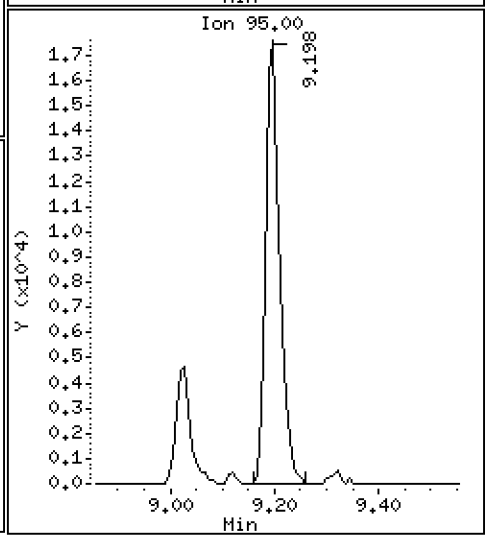












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

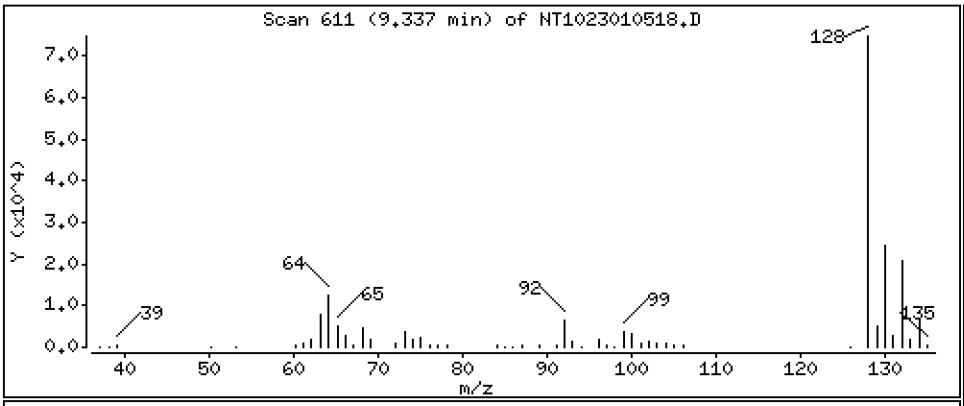
Operator: VTS

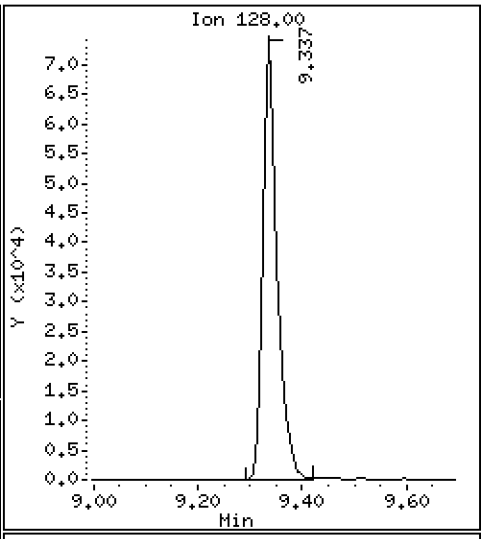
Column phase: ZB-5msi

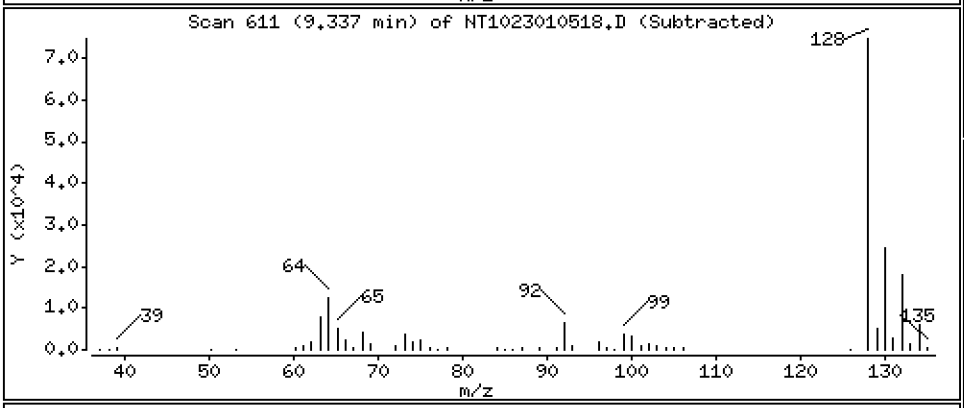
Column diameter: 0.25

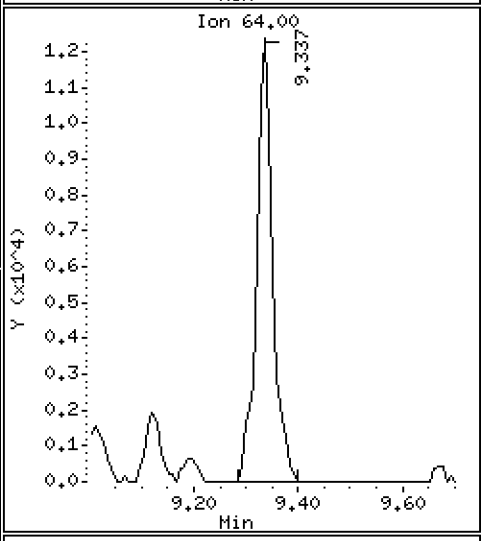
6 2-Chlorophenol

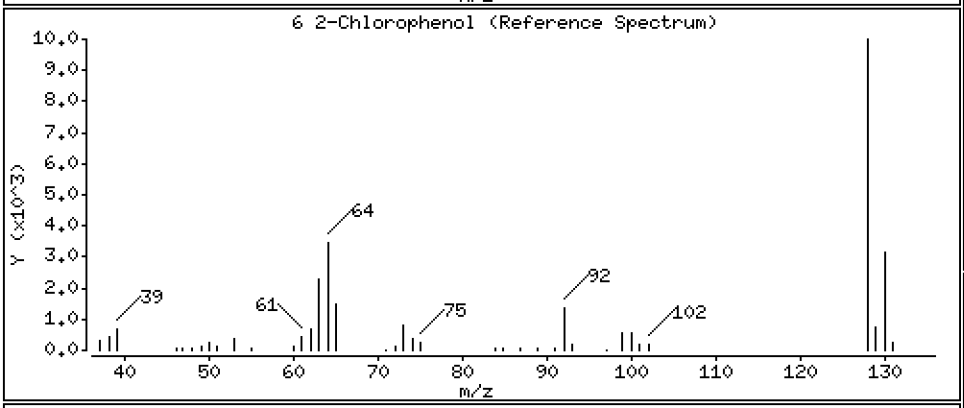
Concentration: 5.265 ug/mL

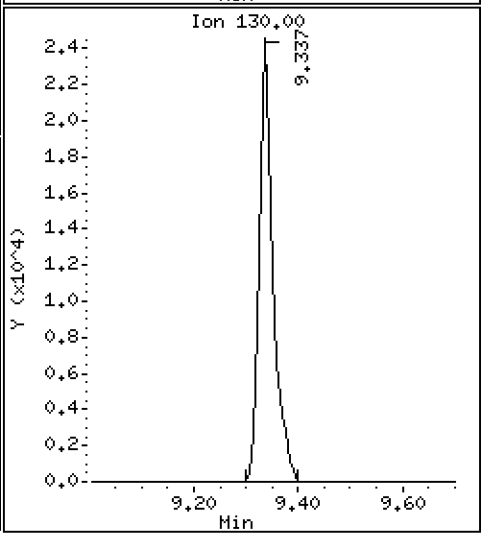


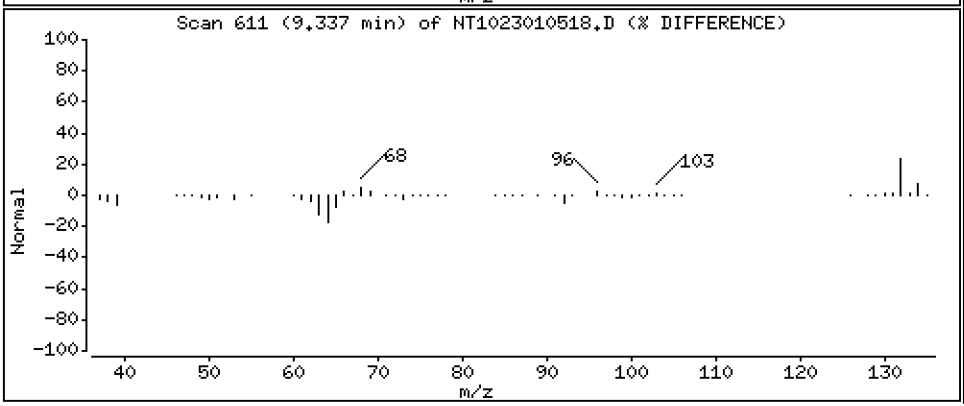












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

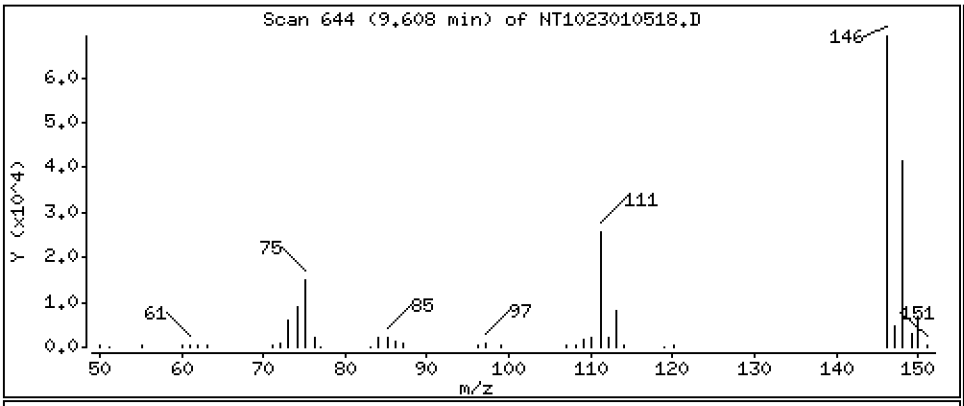
Operator: VTS

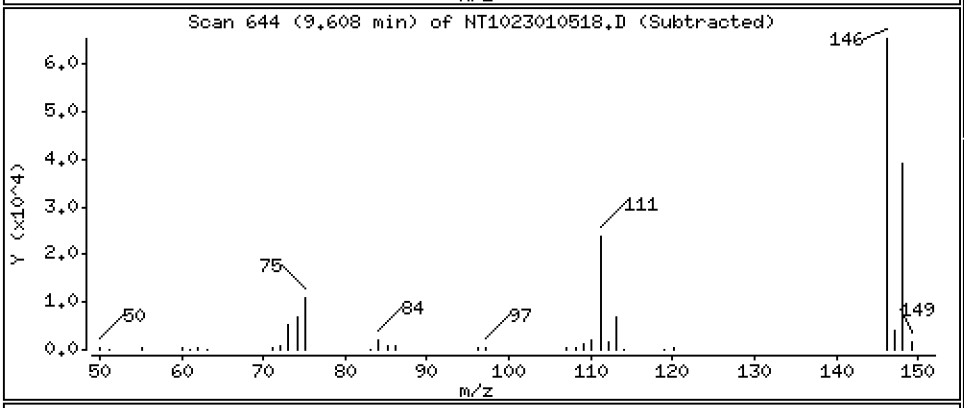
Column phase: ZB-5msi

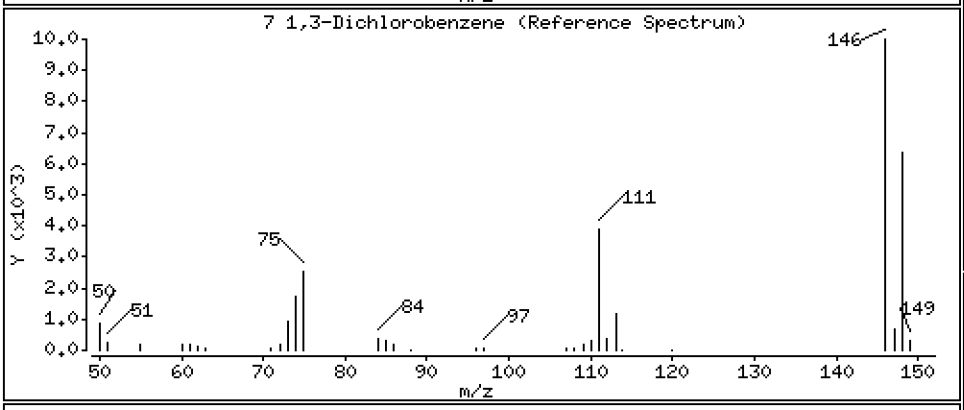
Column diameter: 0.25

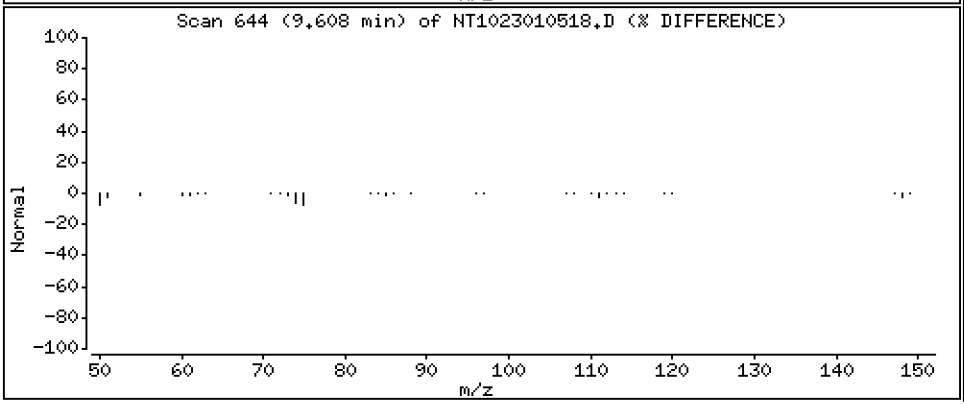
7 1,3-Dichlorobenzene

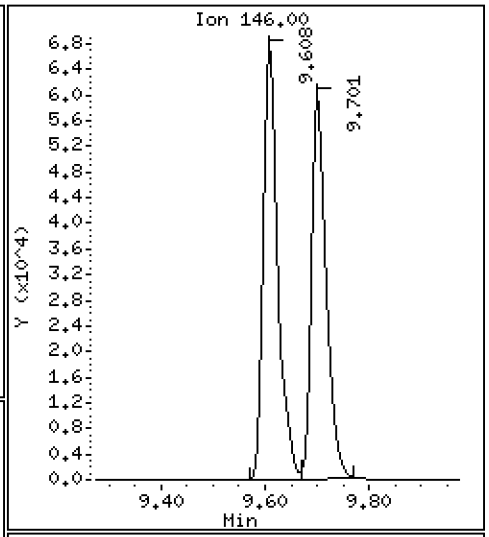
Concentration: 4.835 ug/mL

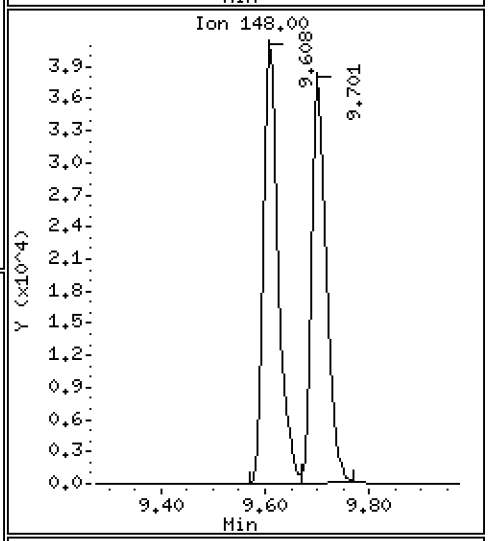


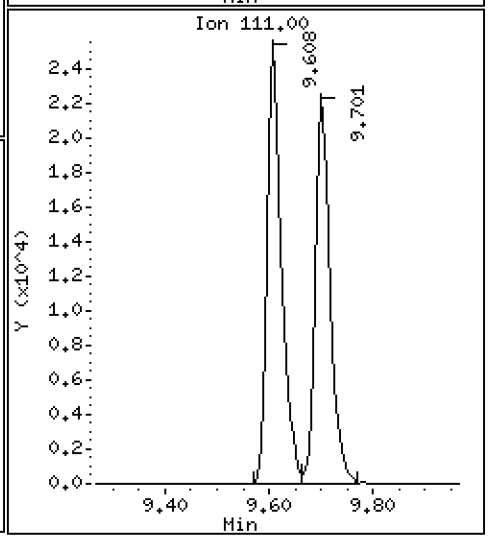












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

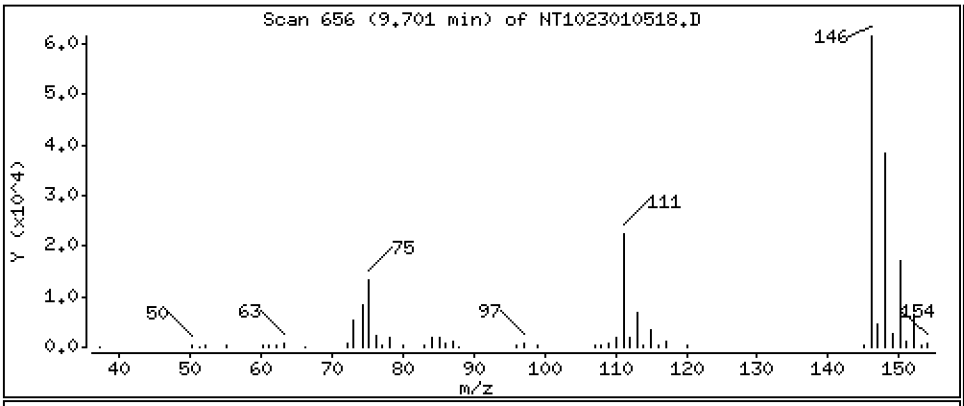
Operator: VTS

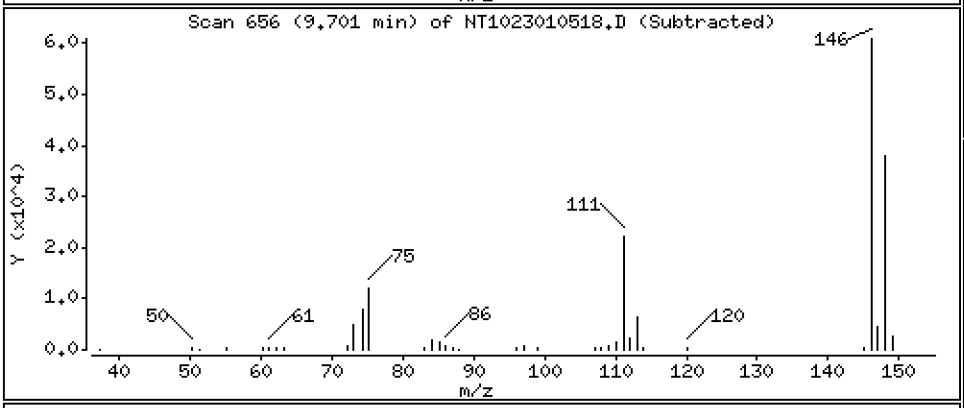
Column phase: ZB-5msi

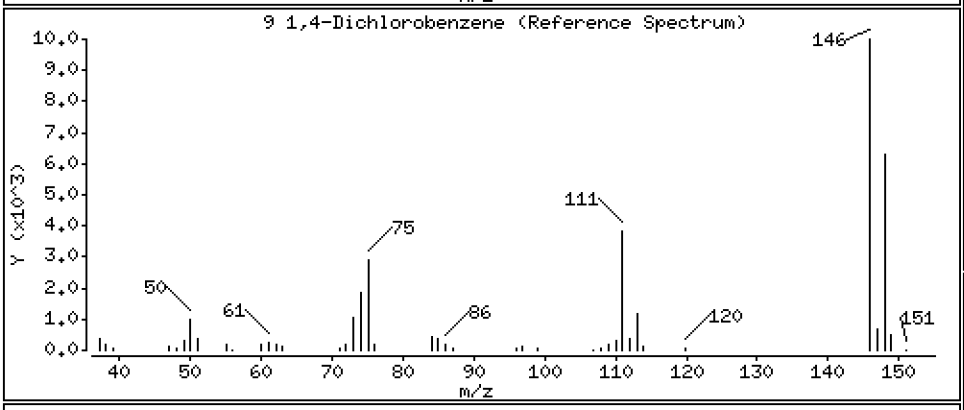
Column diameter: 0.25

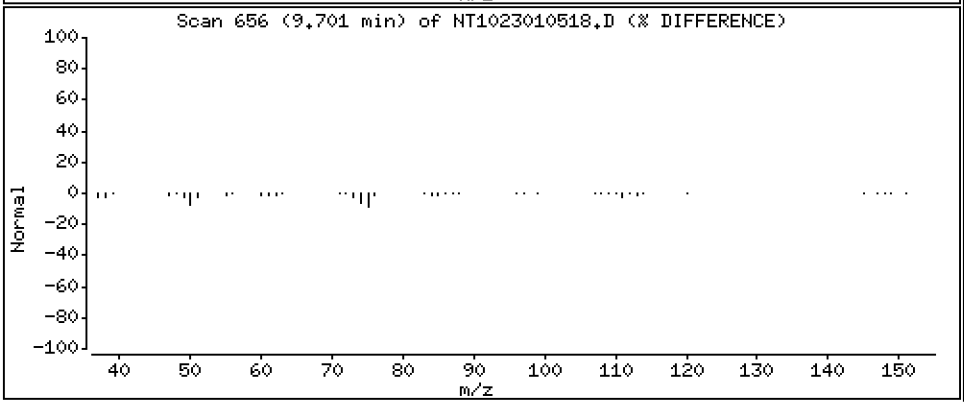
9 1,4-Dichlorobenzene

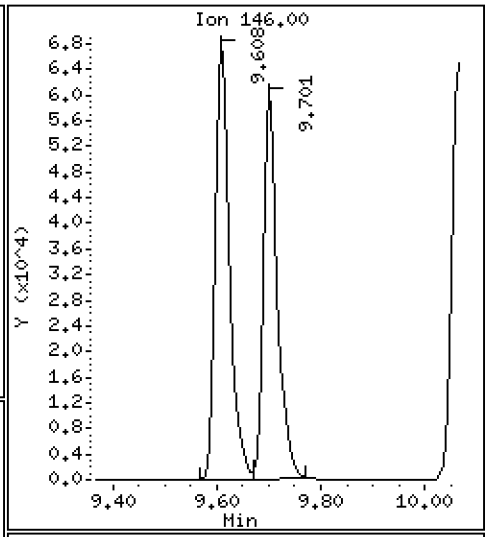
Concentration: 4.719 ug/mL

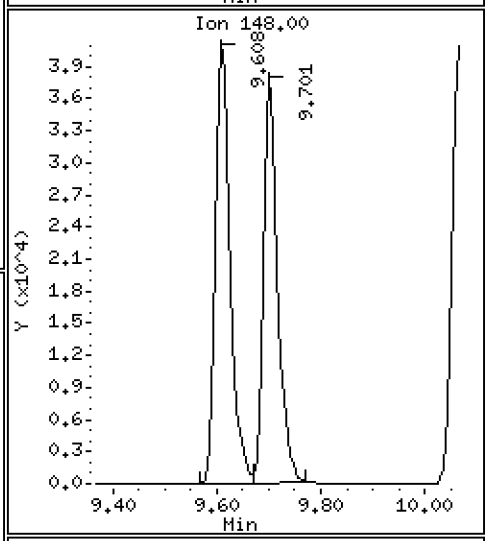


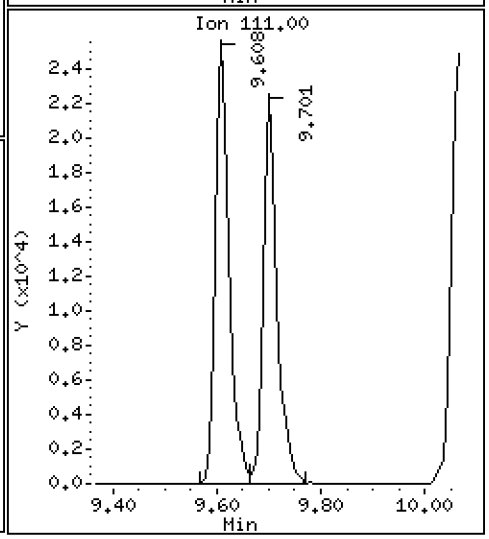












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

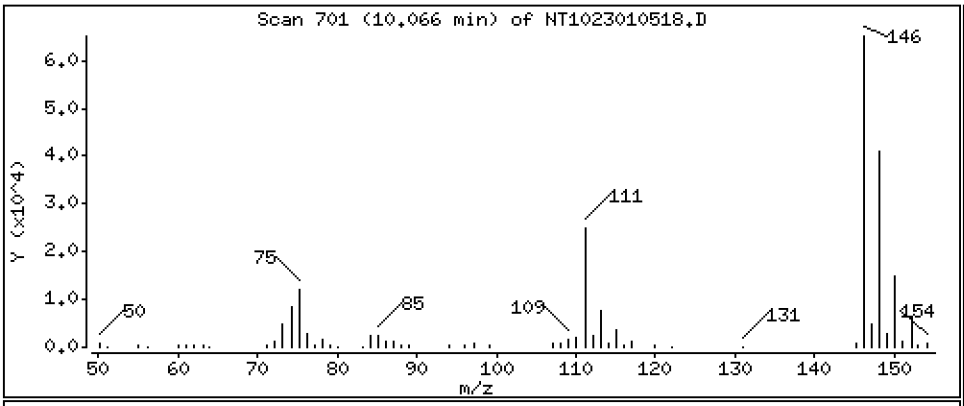
Operator: VTS

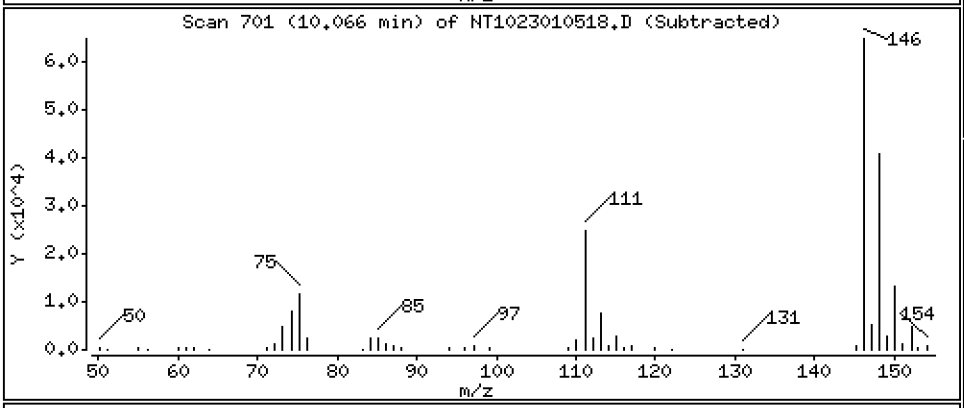
Column phase: ZB-5msi

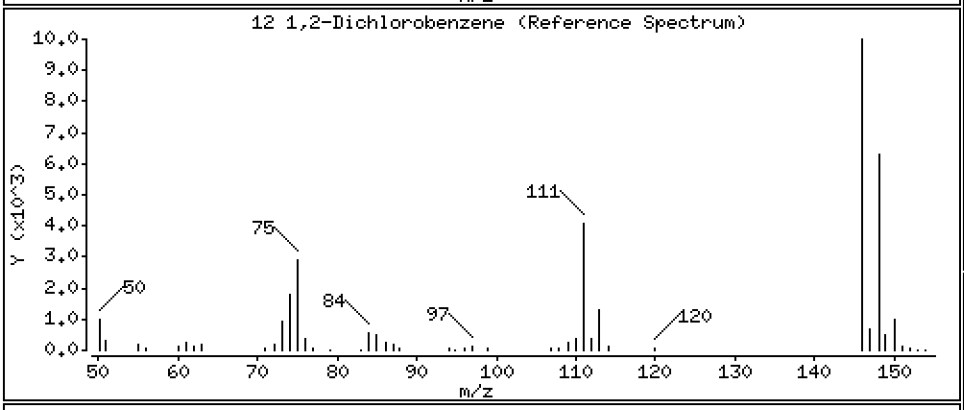
Column diameter: 0.25

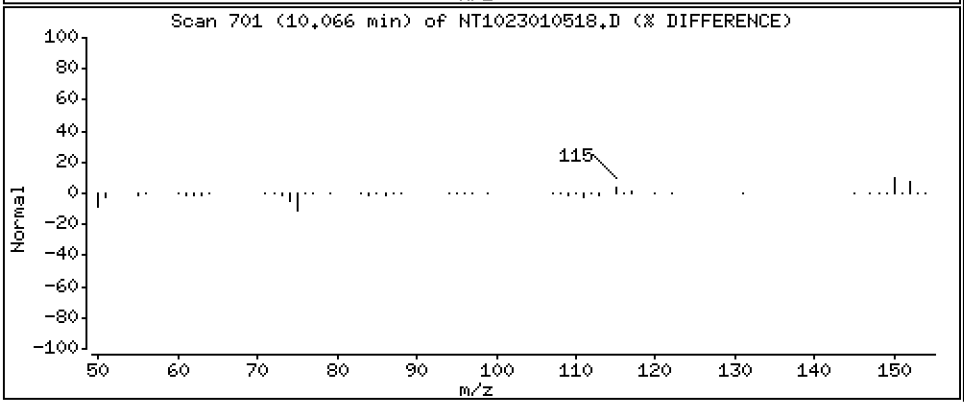
12 1,2-Dichlorobenzene

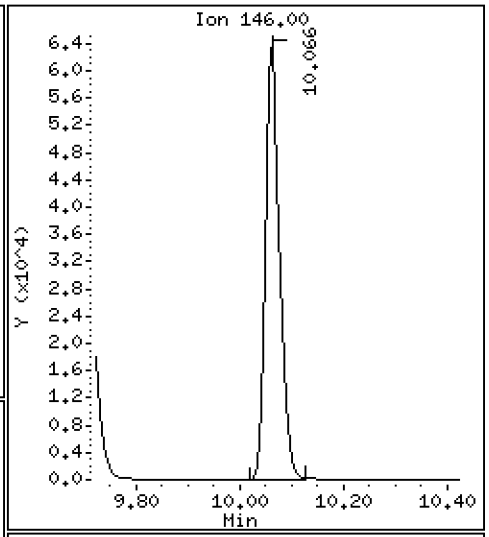
Concentration: 4.827 ug/mL

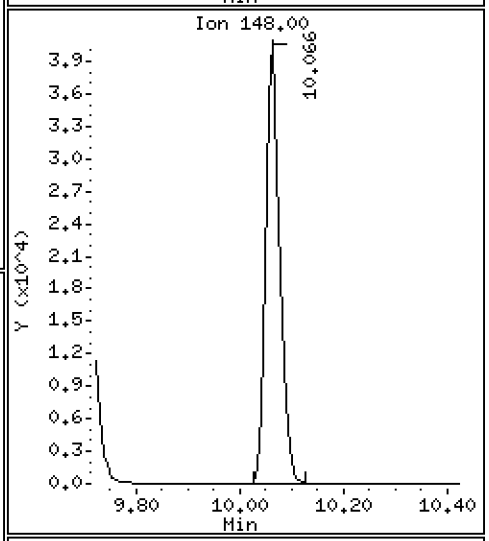


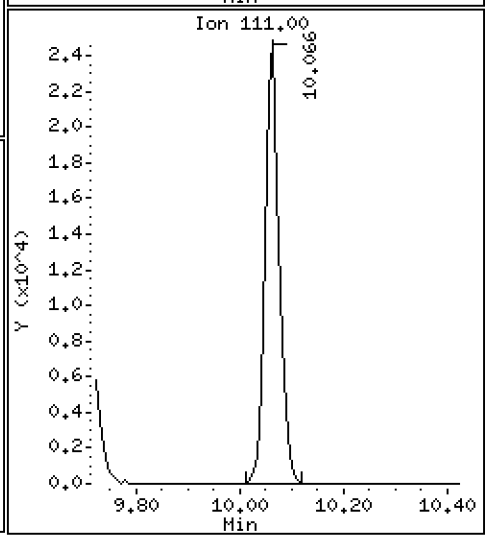












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

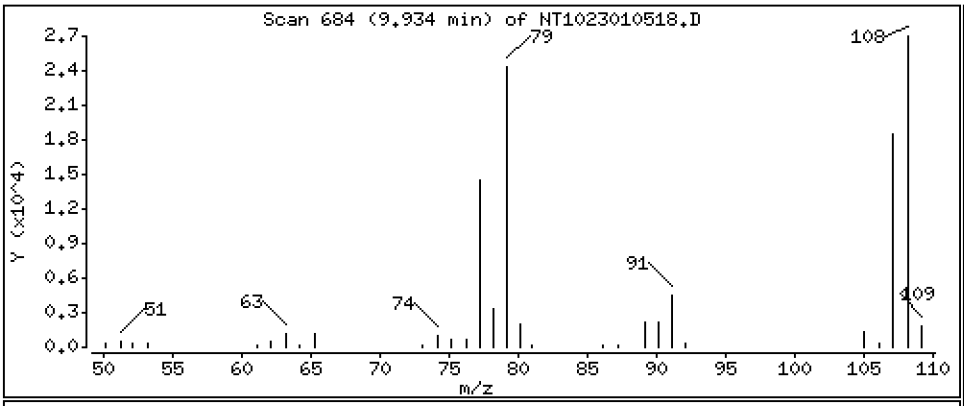
Operator: VTS

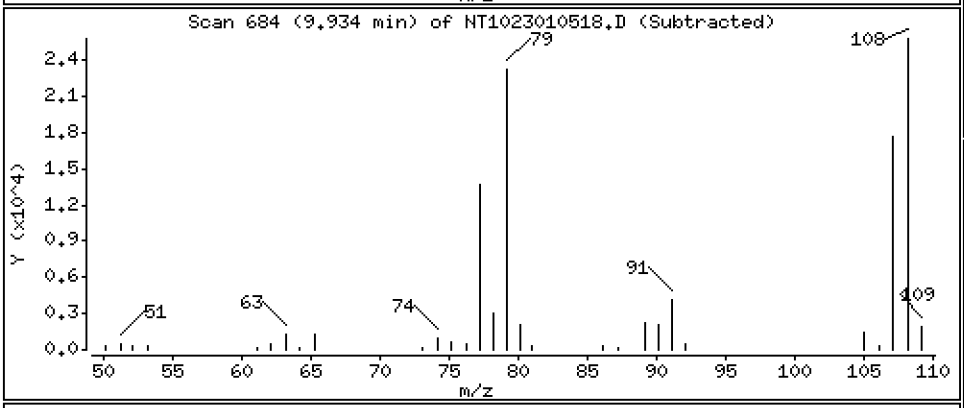
Column phase: ZB-5msi

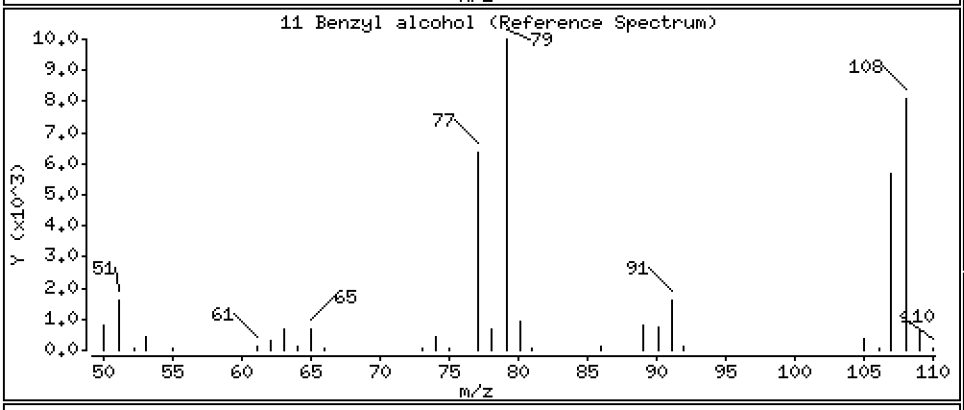
Column diameter: 0.25

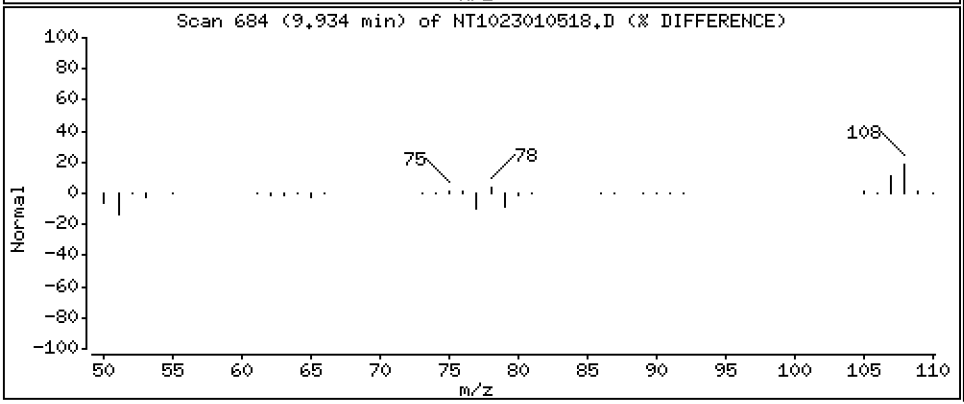
11 Benzyl alcohol

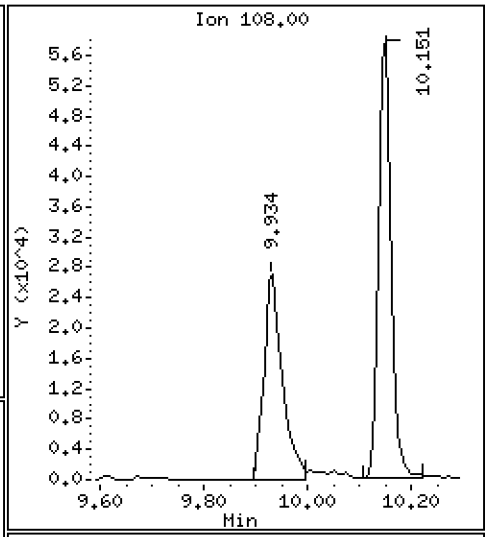
Concentration: 5.258 ug/mL

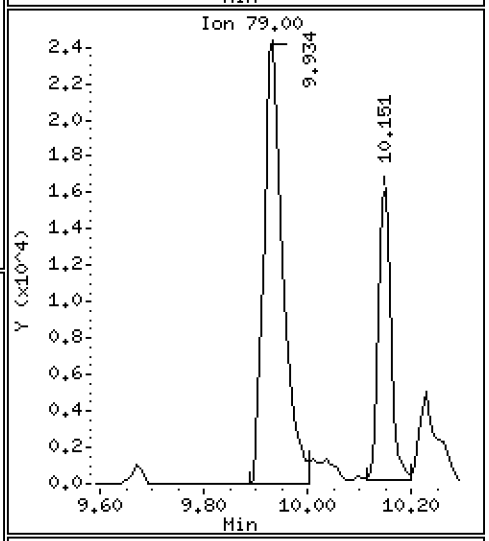


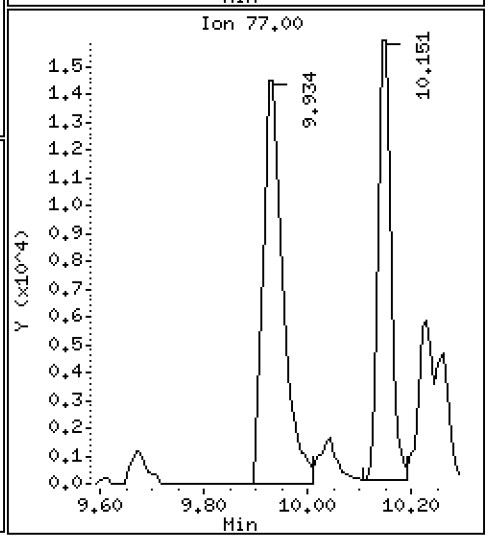












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

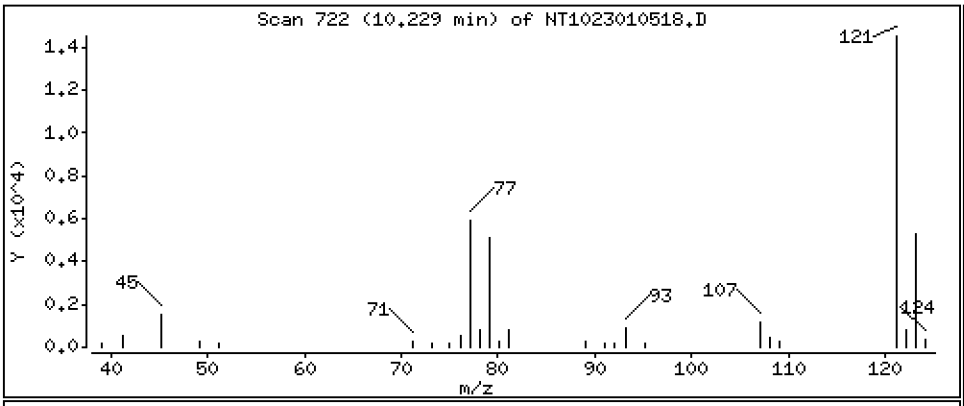
Operator: VTS

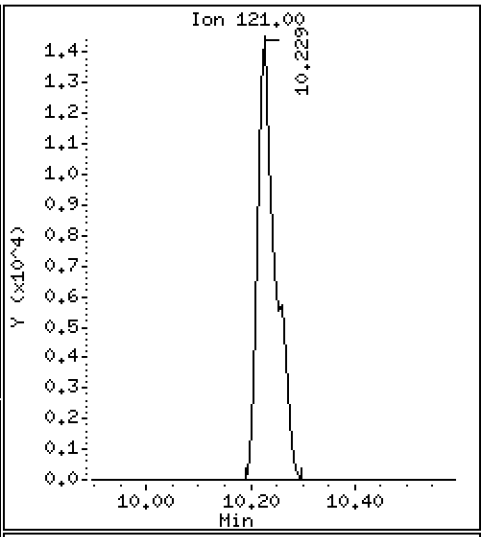
Column phase: ZB-5msi

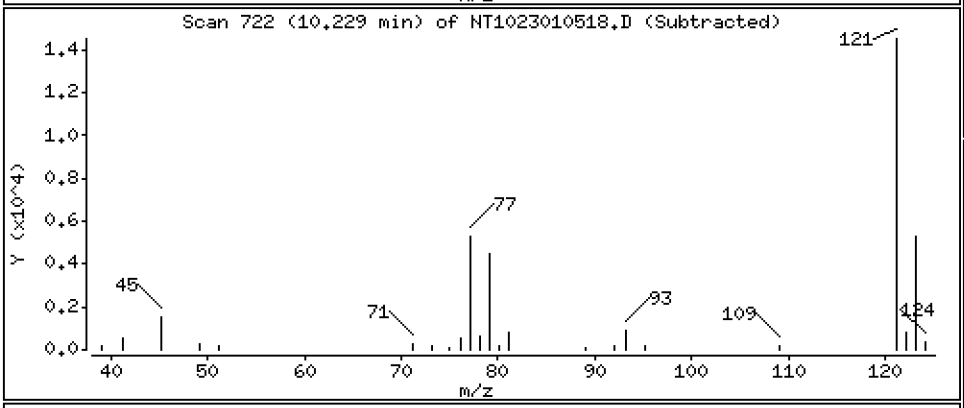
Column diameter: 0.25

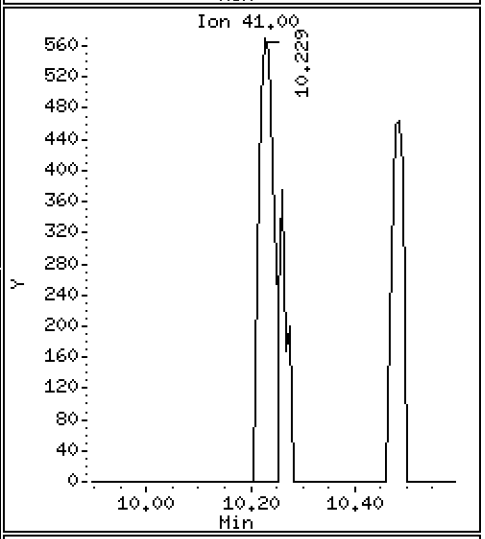
14 2,2'-oxybis(1-Chloropropane)

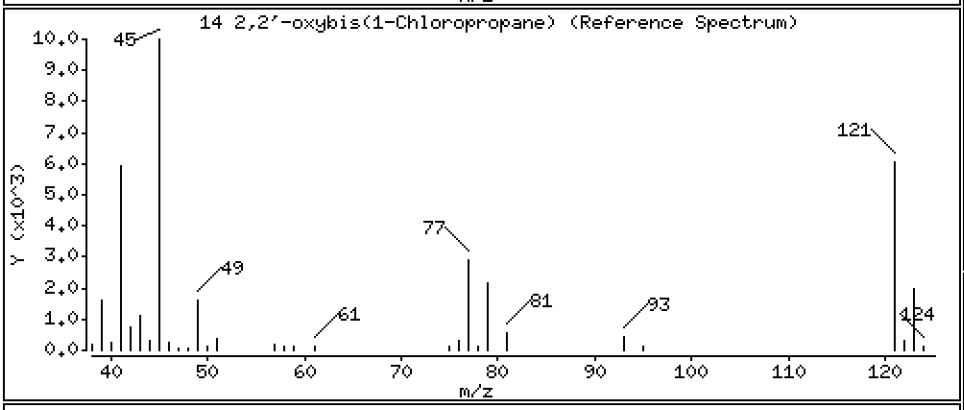
Concentration: 4.788 ug/mL

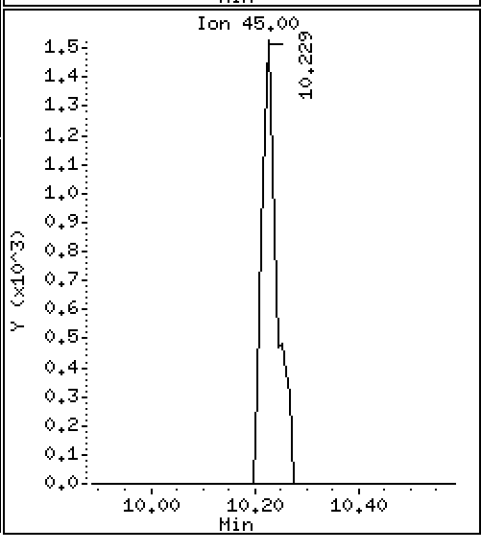


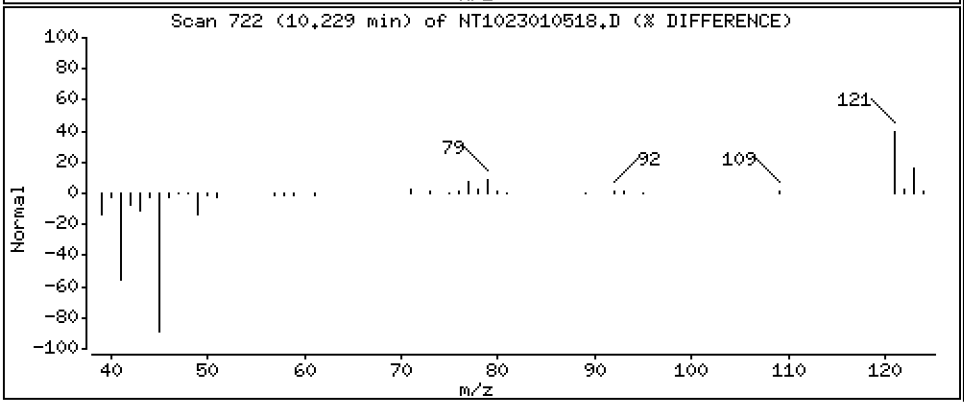












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

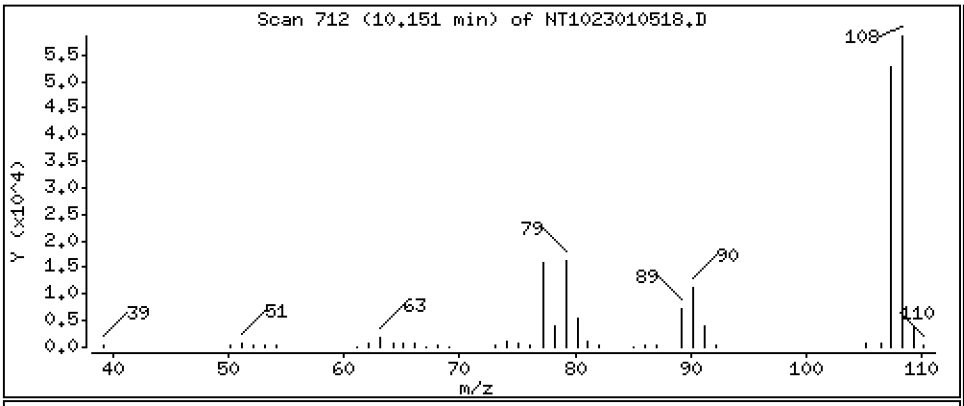
Operator: VTS

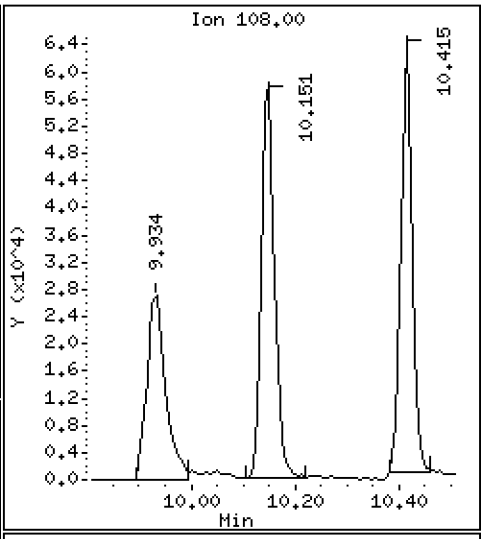
Column phase: ZB-5msi

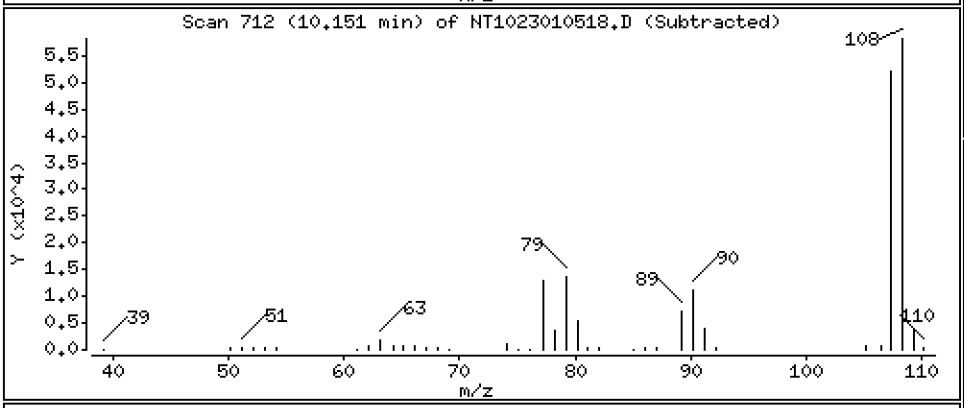
Column diameter: 0.25

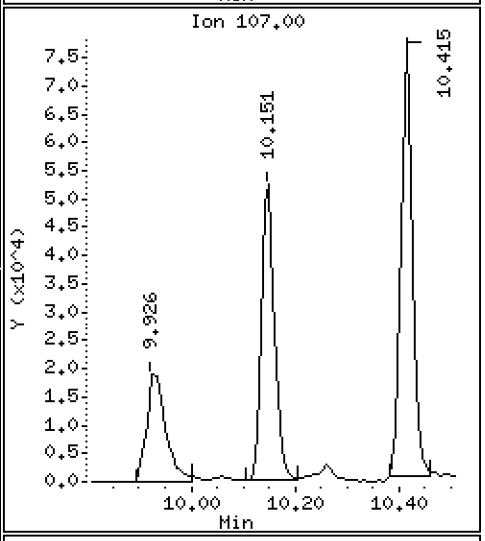
13 2-Methylphenol

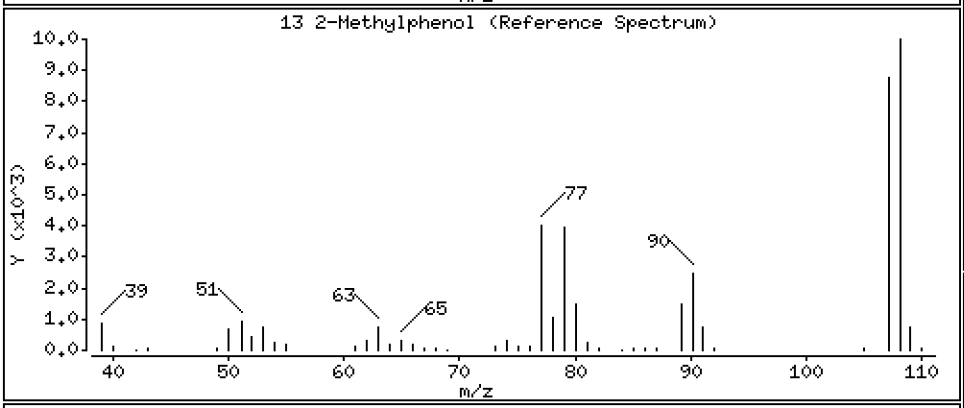
Concentration: 5.362 ug/mL

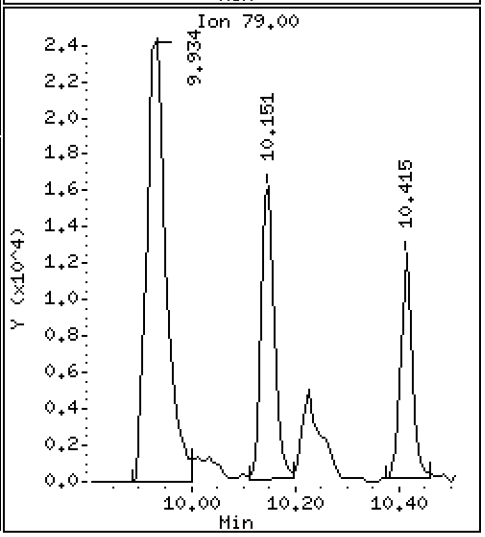


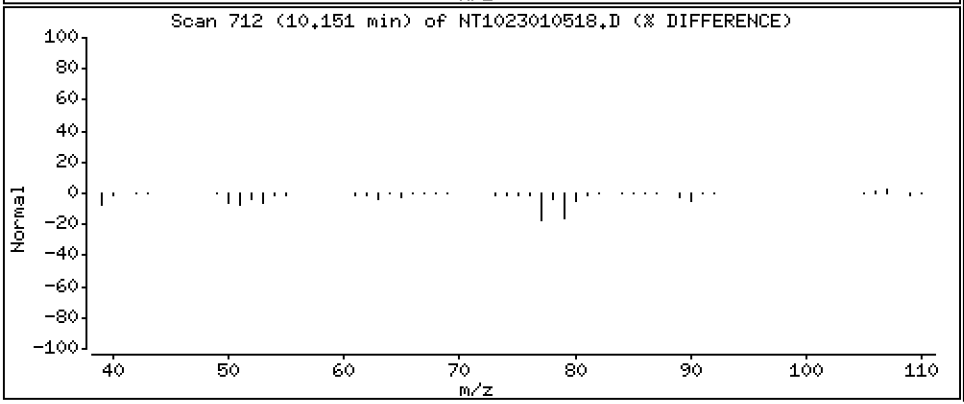












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

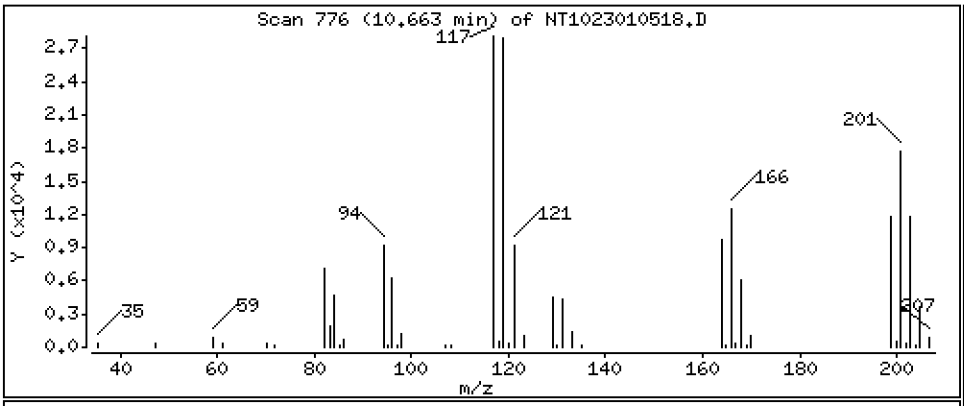
Operator: VTS

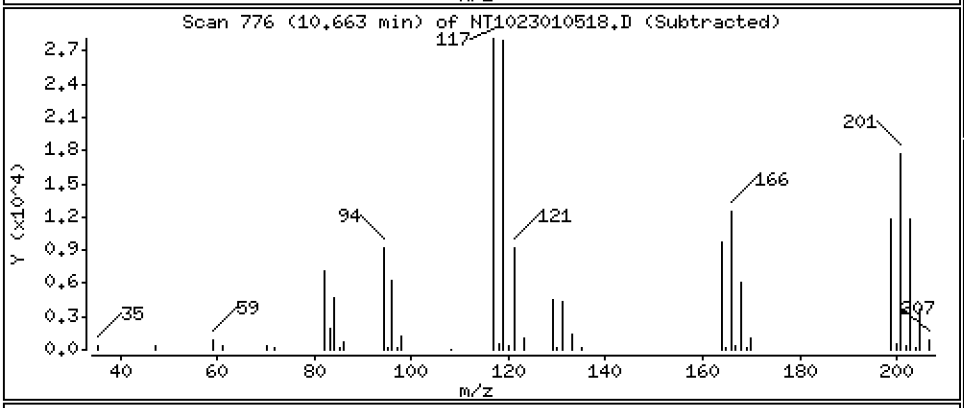
Column phase: ZB-5msi

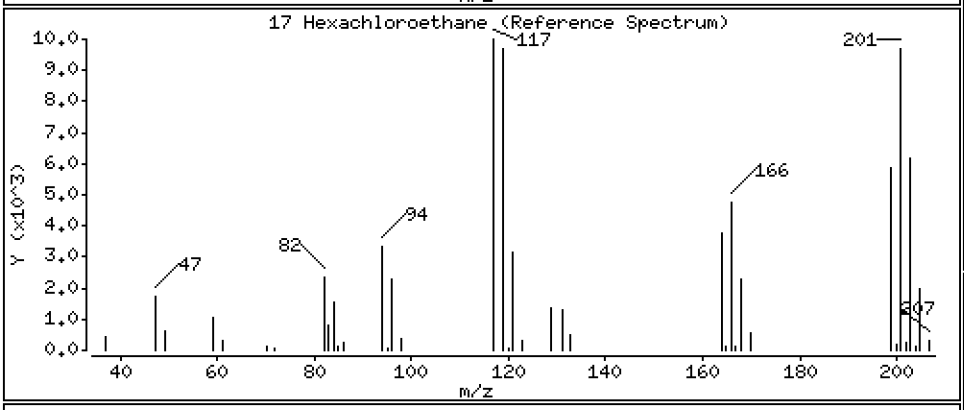
Column diameter: 0.25

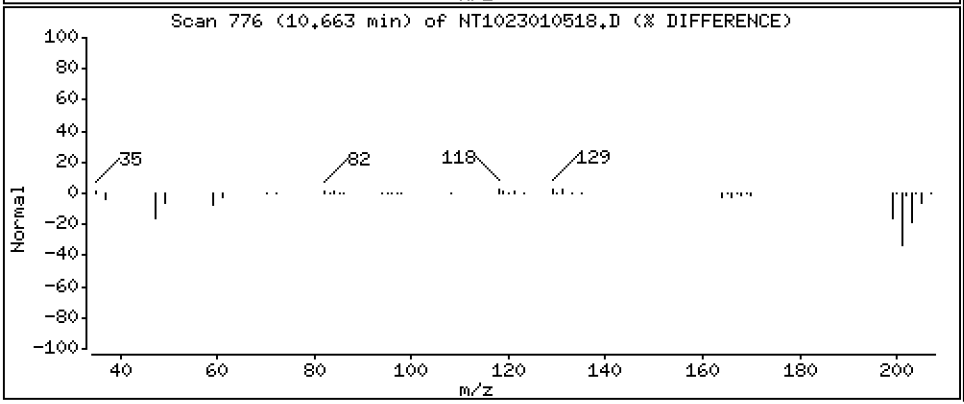
17 Hexachloroethane

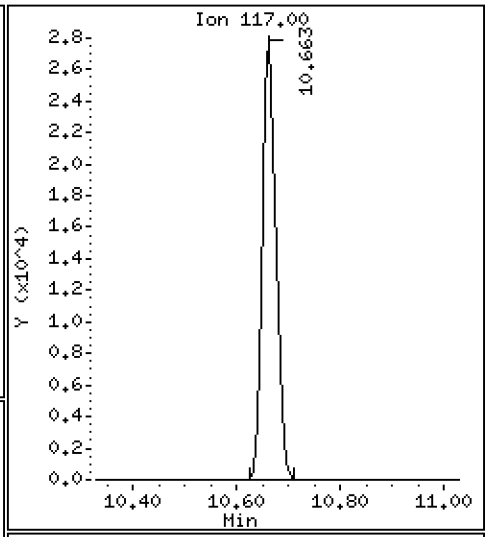
Concentration: 4.648 ug/mL

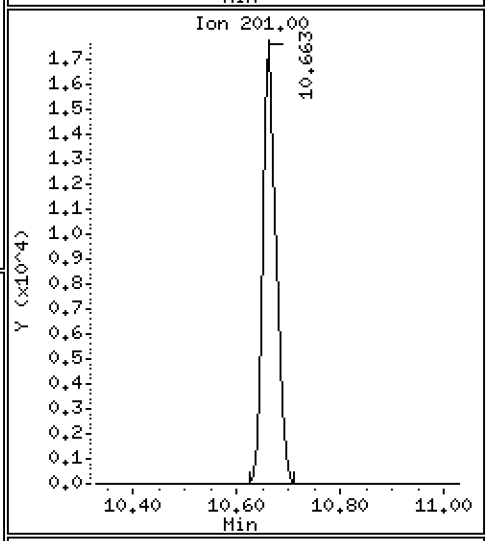


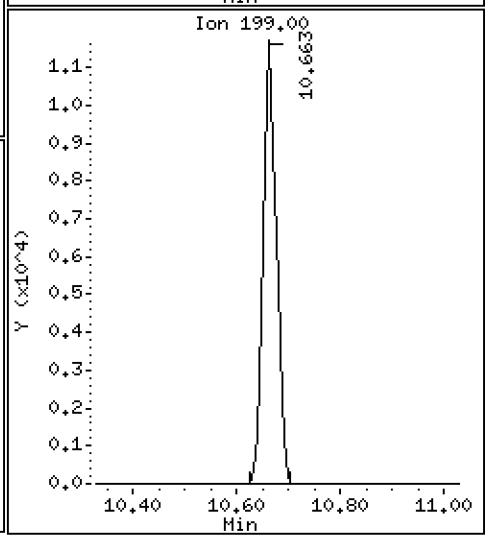












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

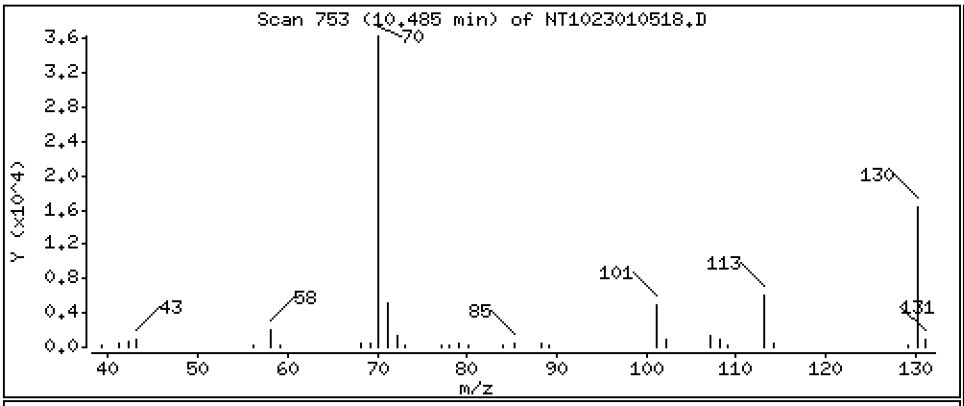
Operator: VTS

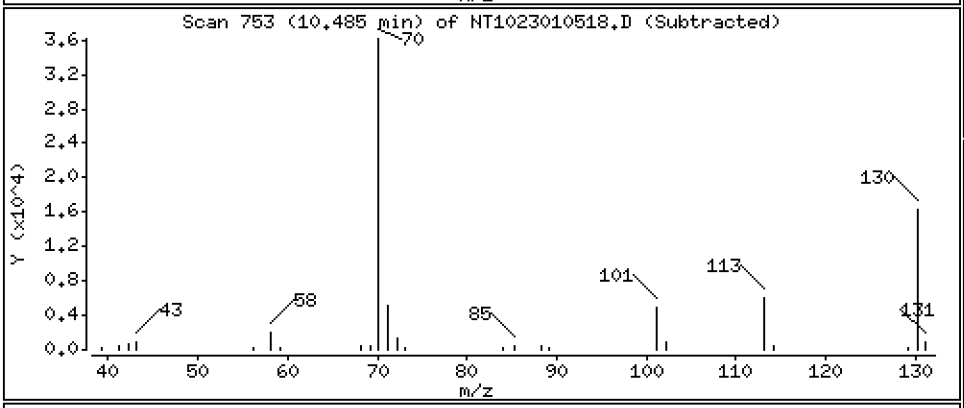
Column phase: ZB-5msi

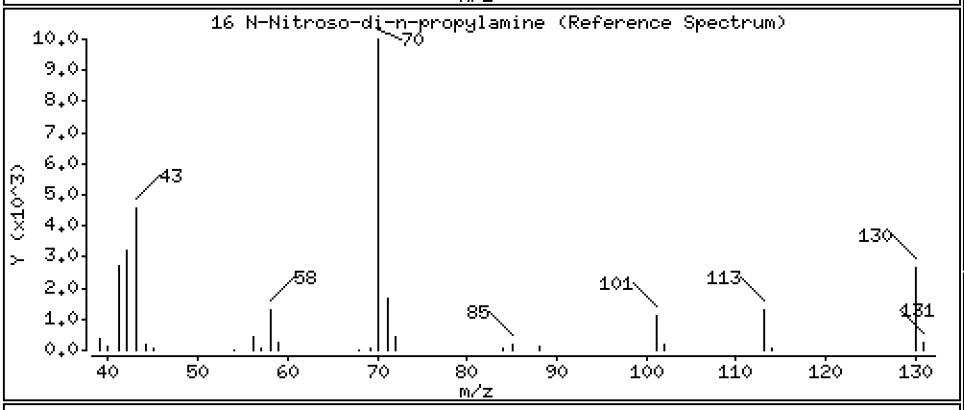
Column diameter: 0.25

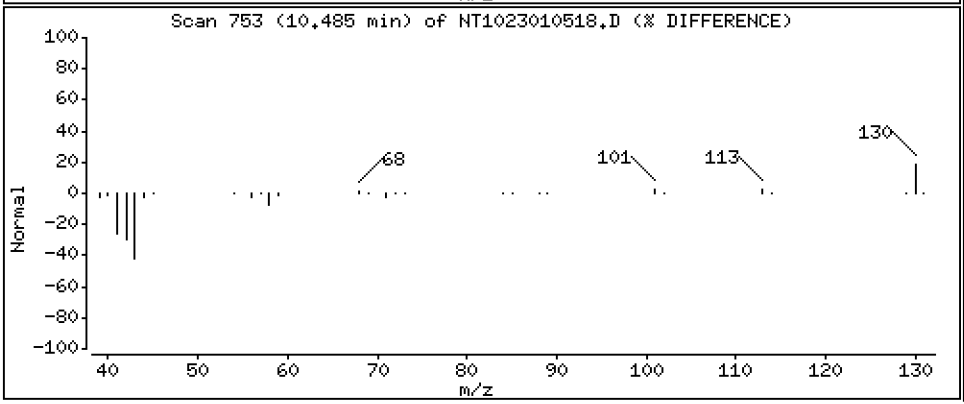
16 N-Nitroso-di-n-propylamine

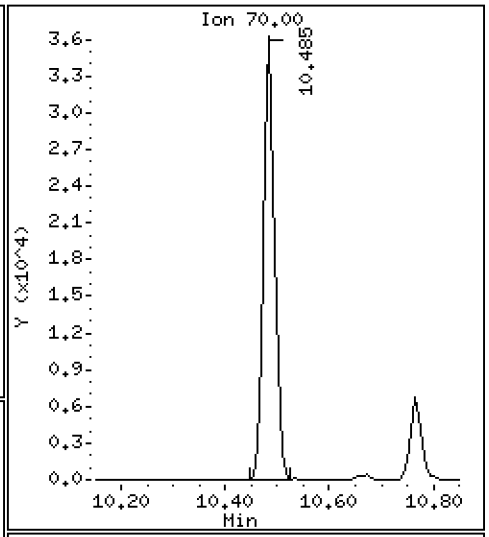
Concentration: 5.296 ug/mL

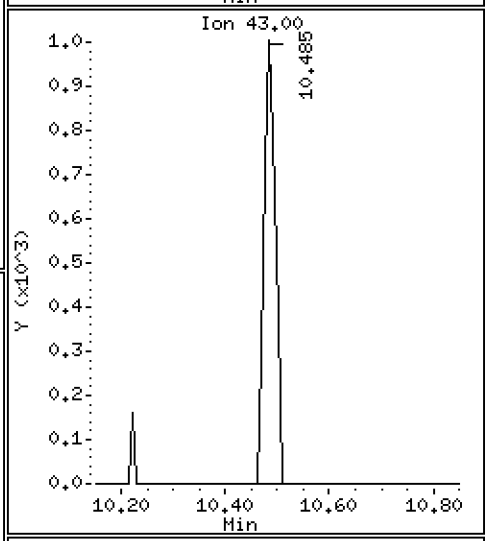


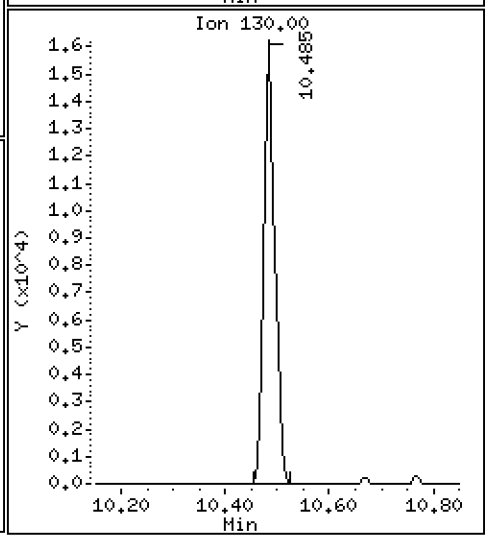












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

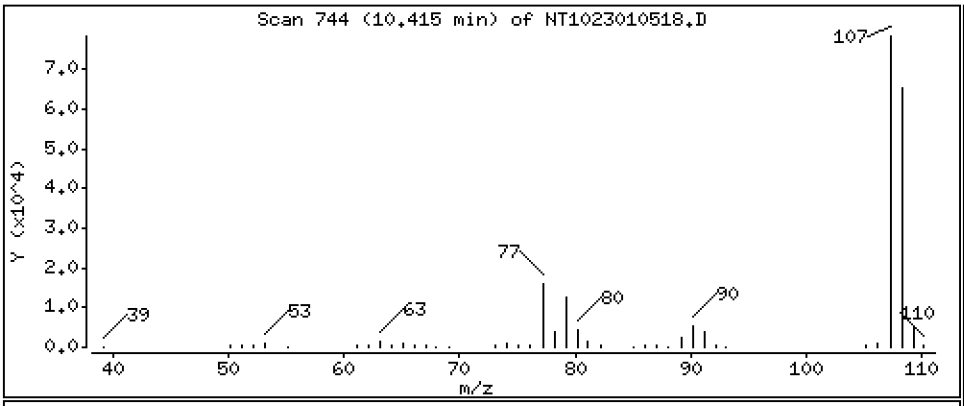
Operator: VTS

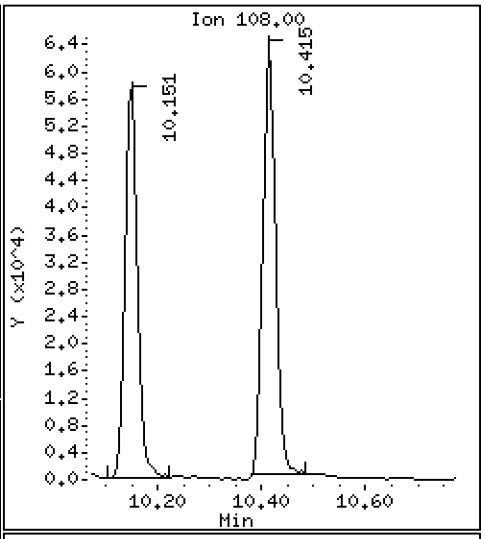
Column phase: ZB-5msi

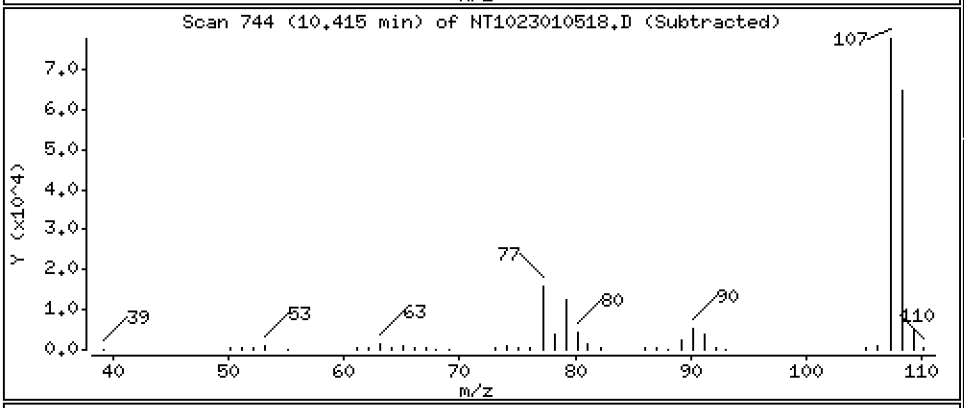
Column diameter: 0.25

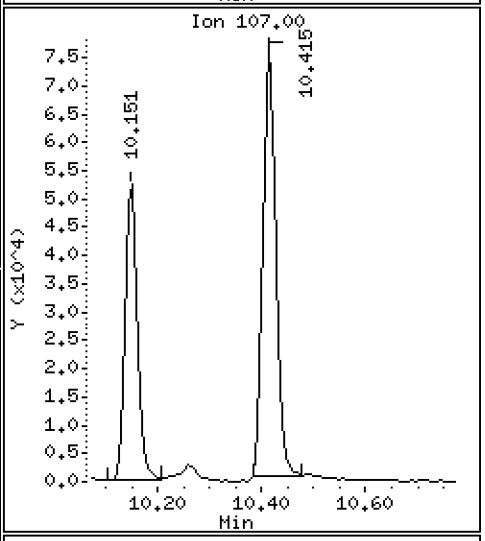
15 4-Methylphenol

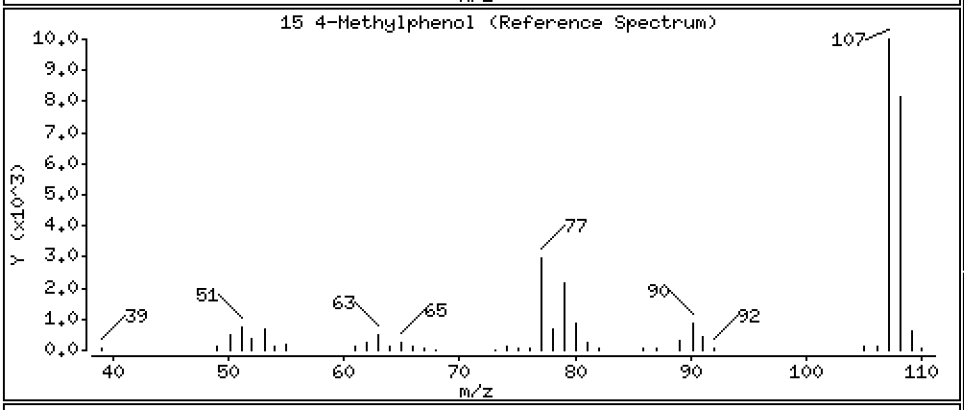
Concentration: 5.994 ug/mL

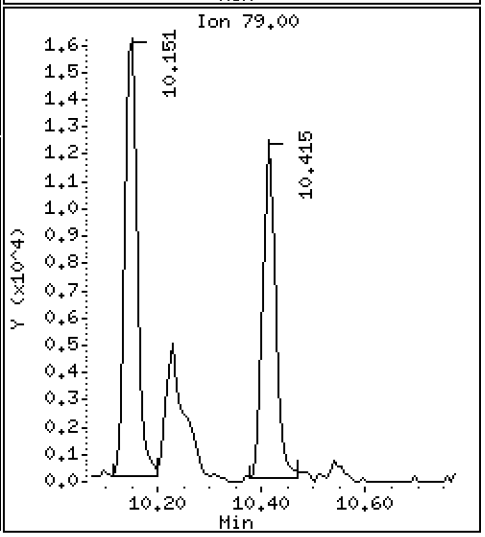


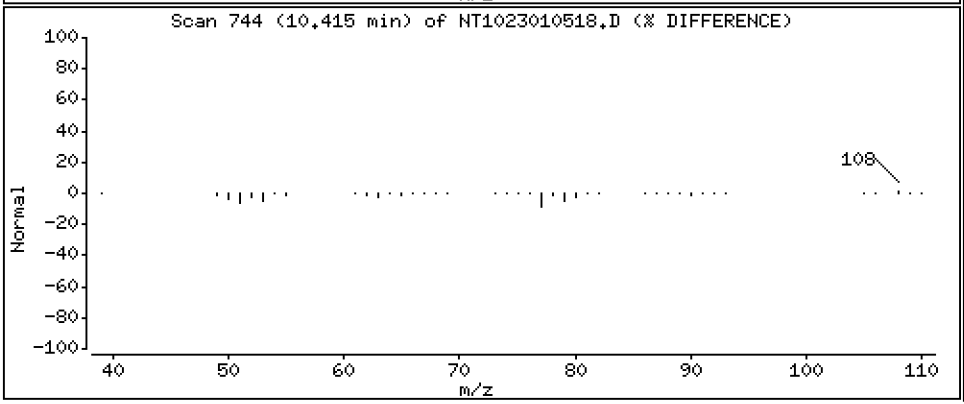












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

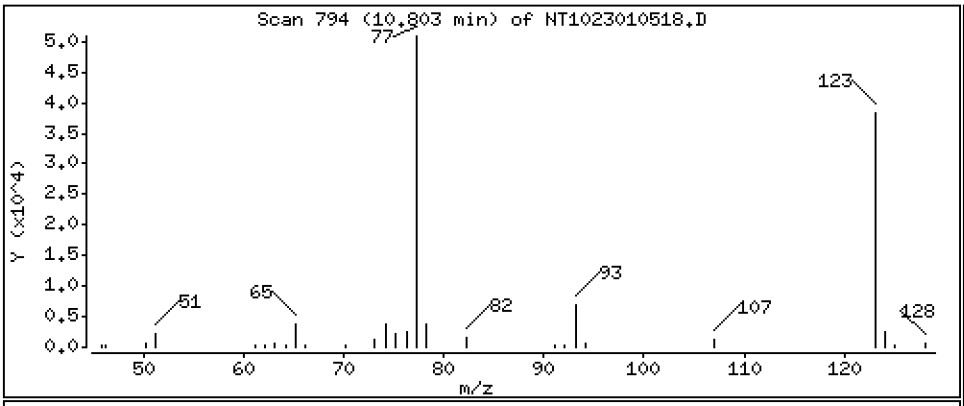
Operator: VTS

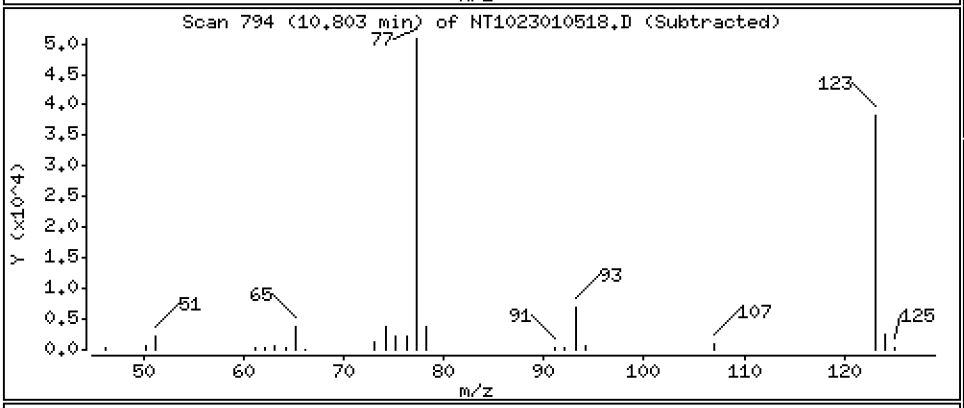
Column phase: ZB-5msi

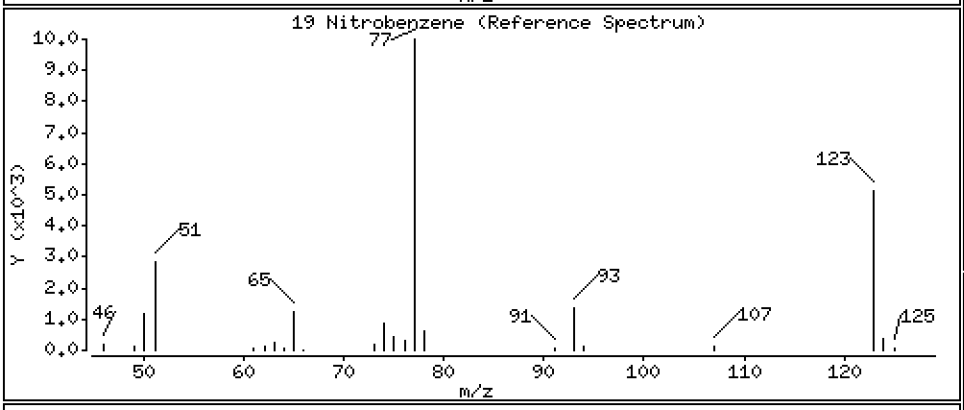
Column diameter: 0.25

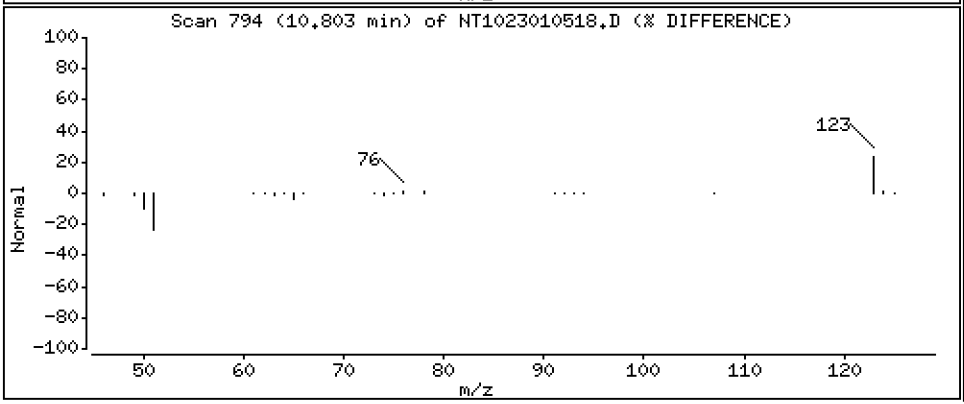
19 Nitrobenzene

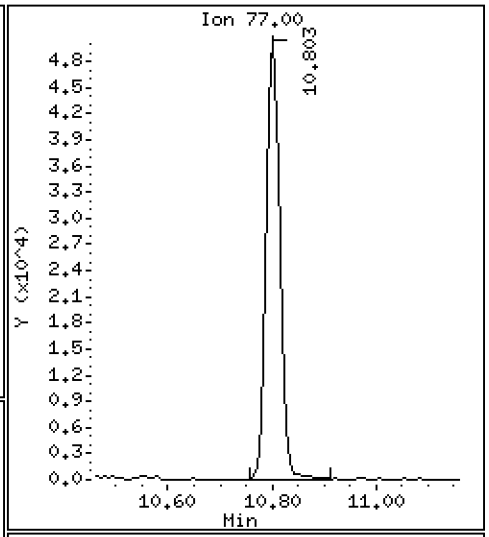
Concentration: 5.131 ug/mL

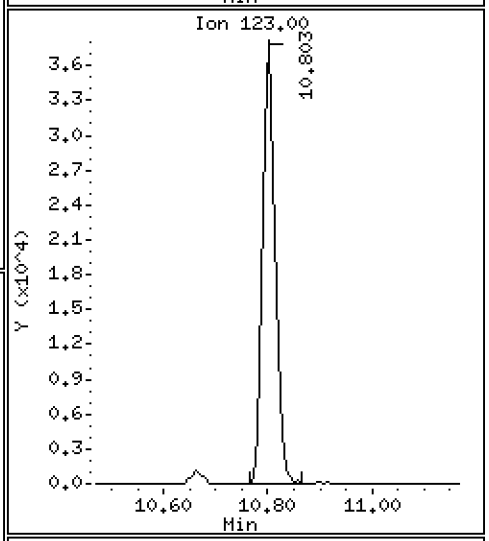


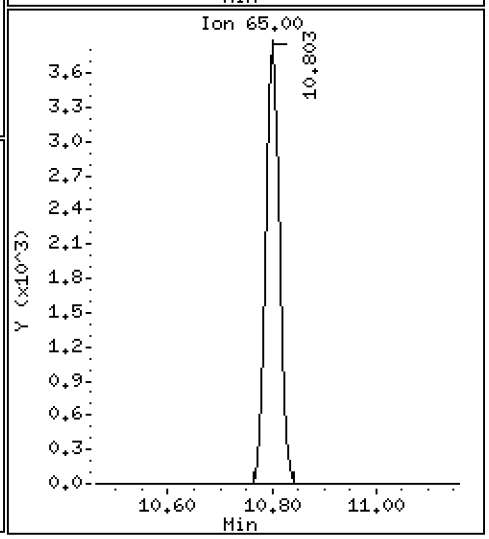












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

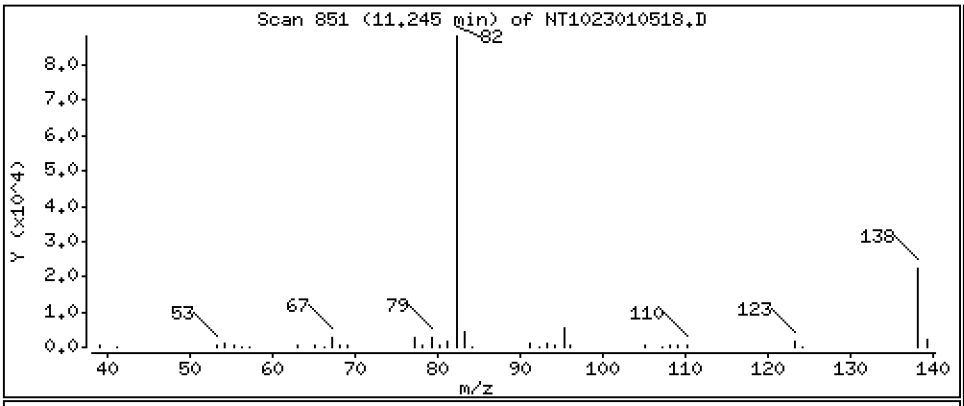
Operator: VTS

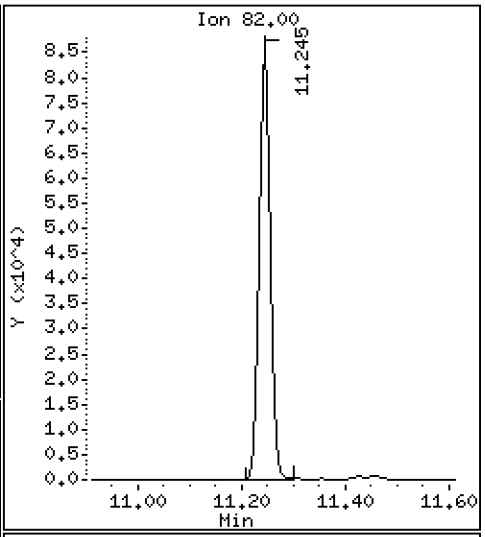
Column phase: ZB-5msi

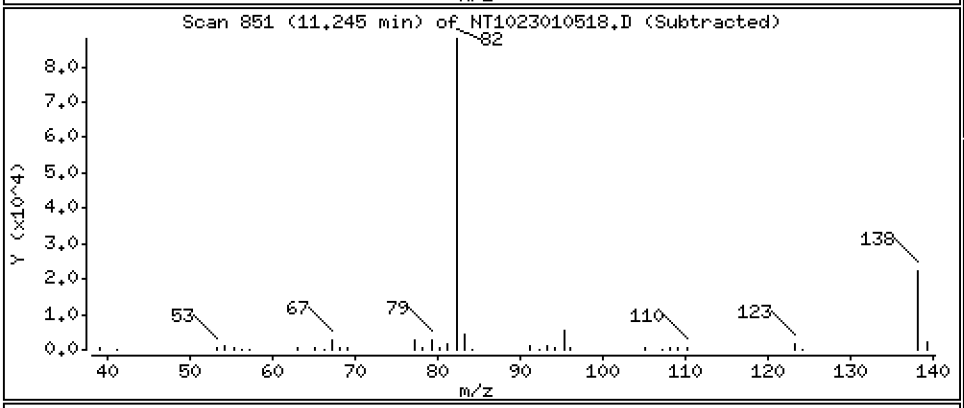
Column diameter: 0.25

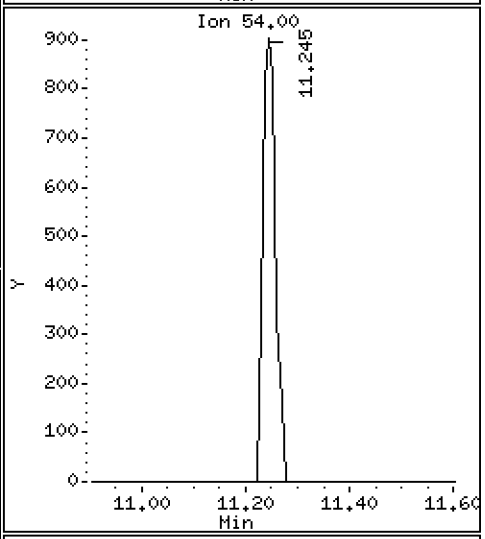
20 Isophorone

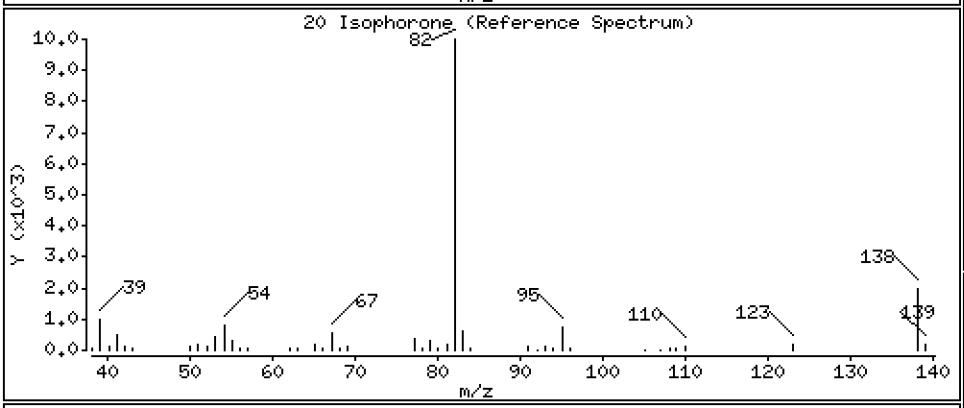
Concentration: 5.032 ug/mL

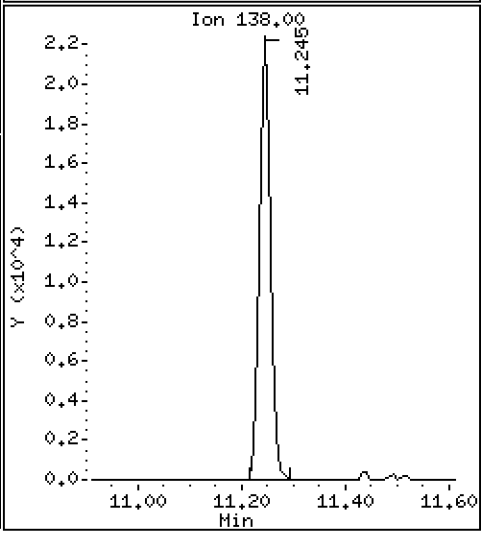


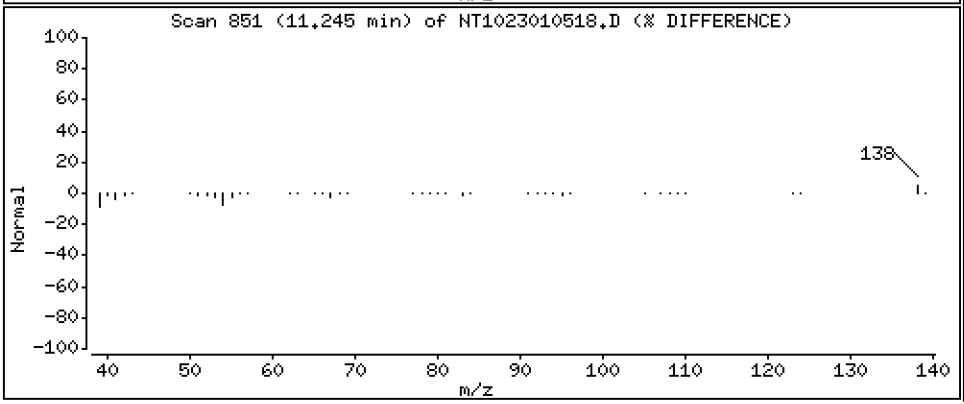












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

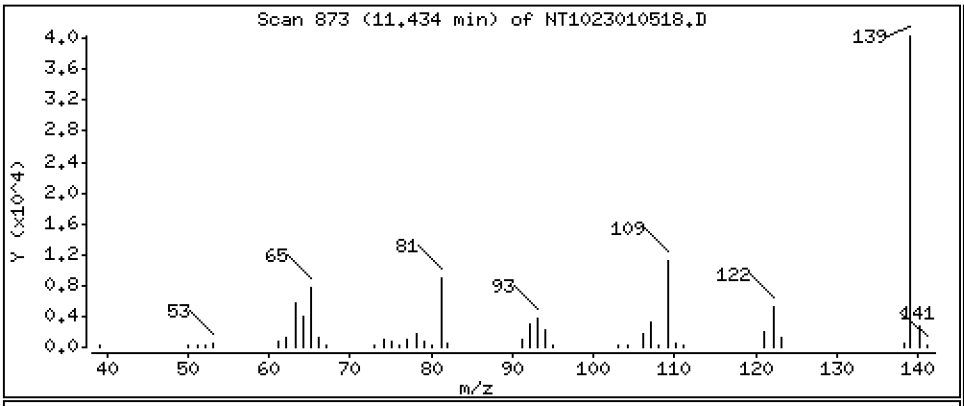
Operator: VTS

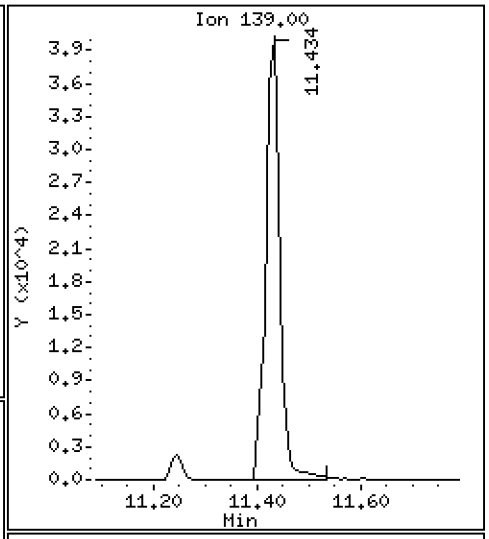
Column phase: ZB-5msi

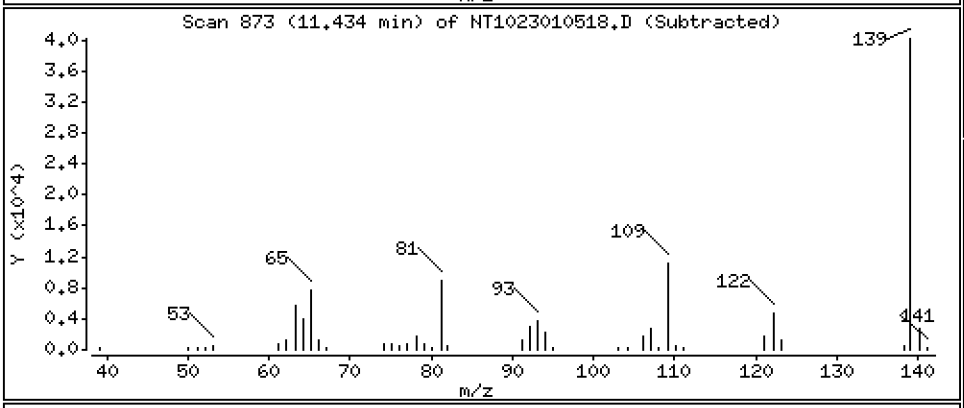
Column diameter: 0.25

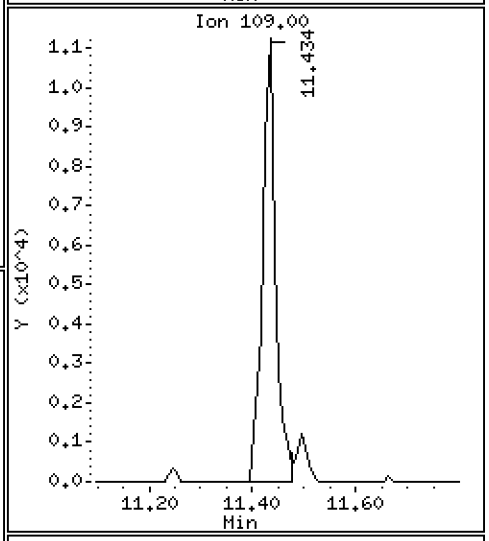
21 2-Nitrophenol

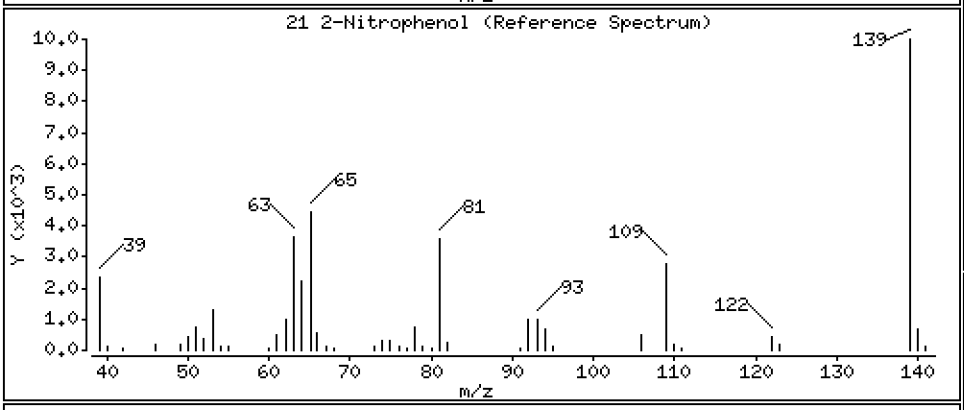
Concentration: 4.852 ug/mL

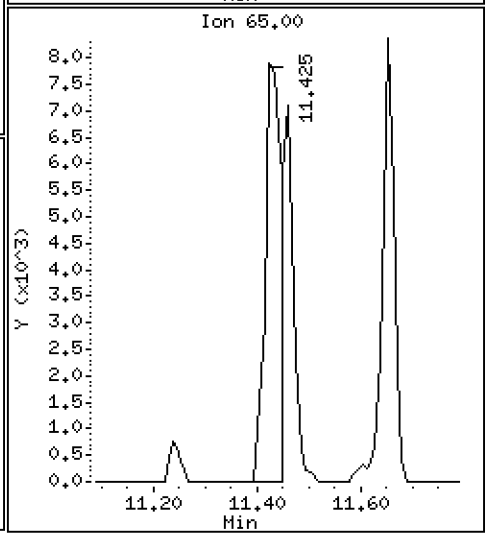


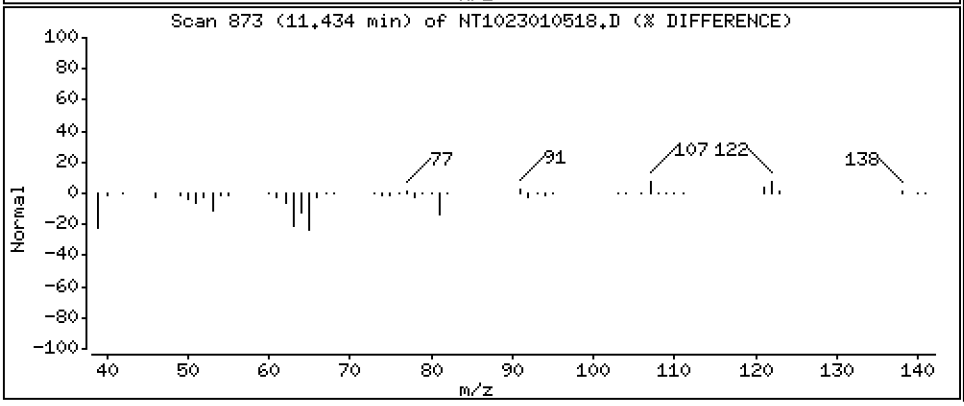












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

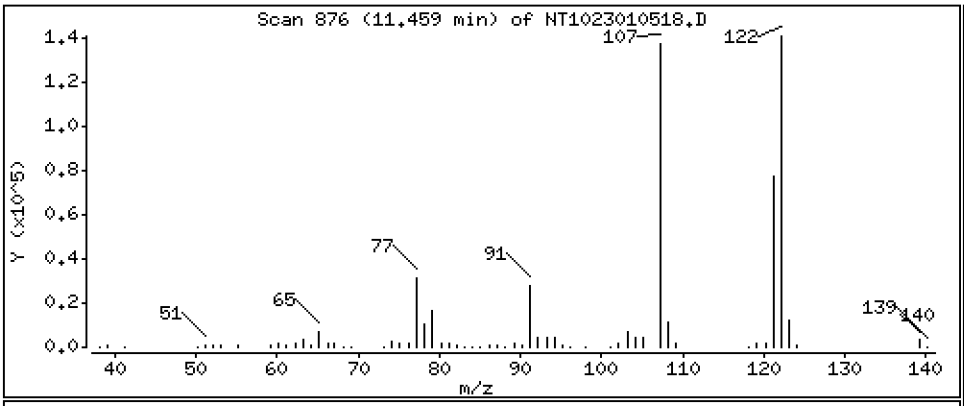
Operator: VTS

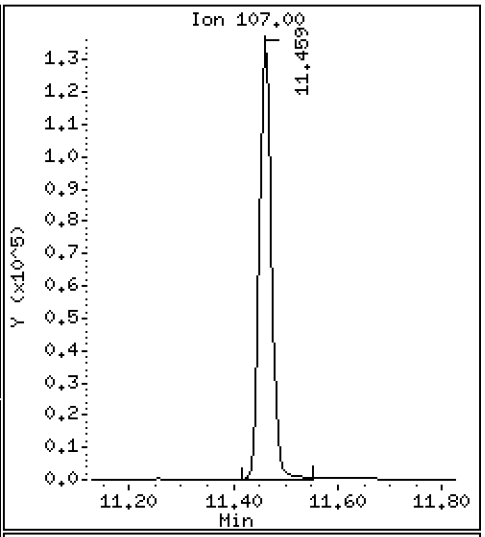
Column phase: ZB-5msi

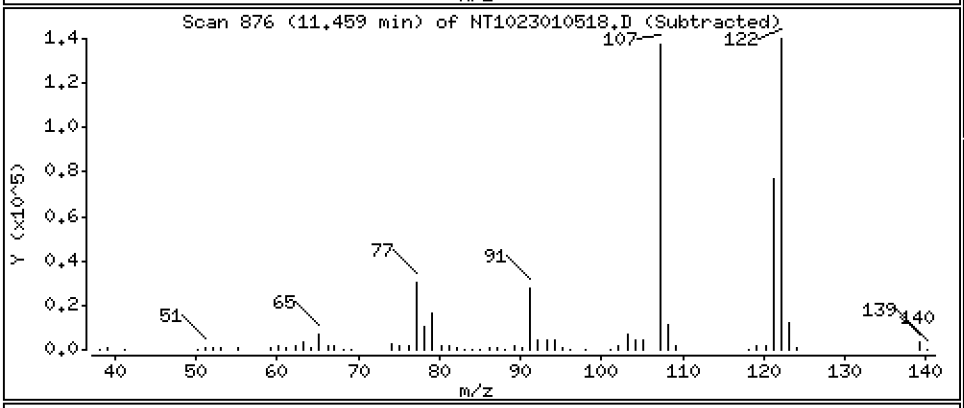
Column diameter: 0.25

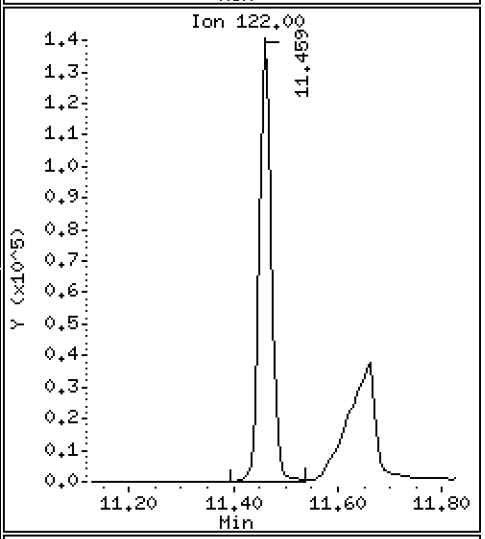
22 2,4-Dimethylphenol

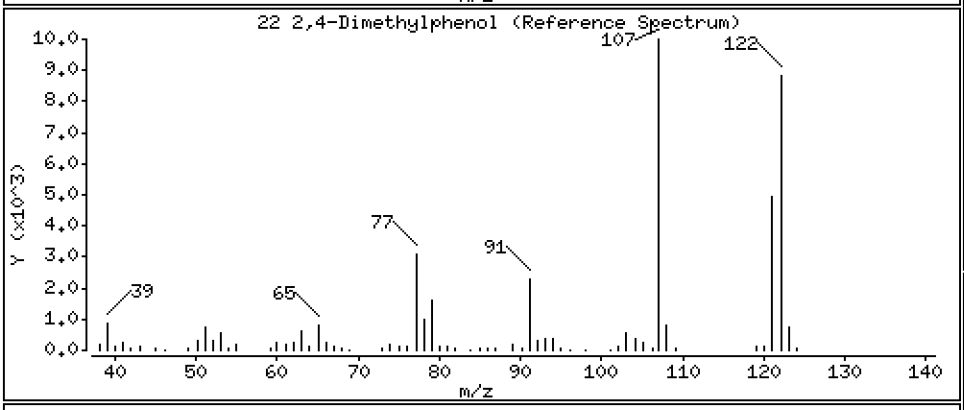
Concentration: 10.08 ug/mL

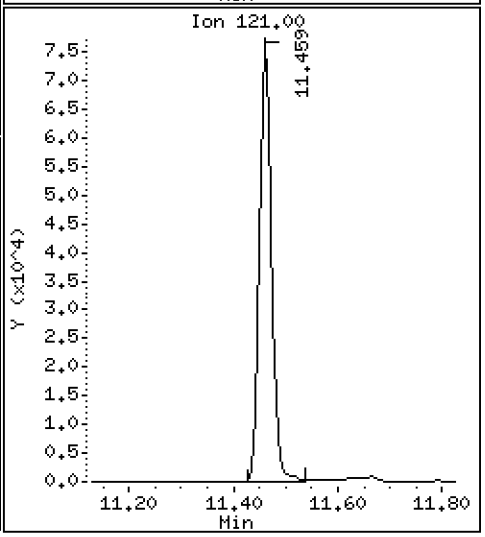


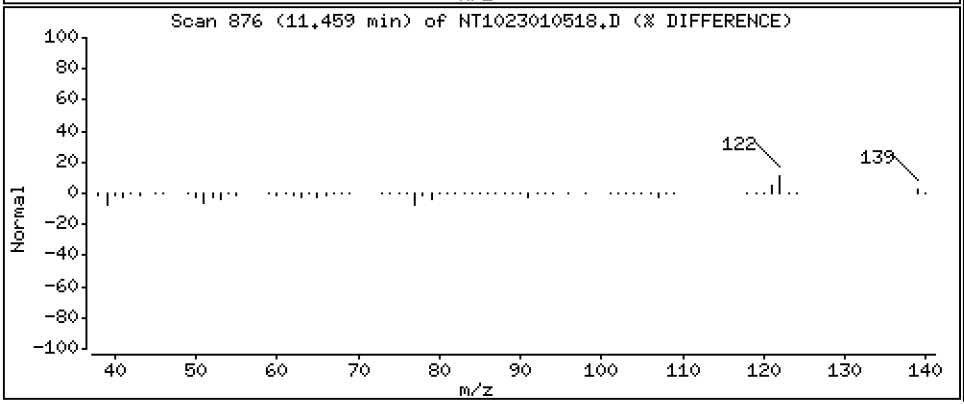












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

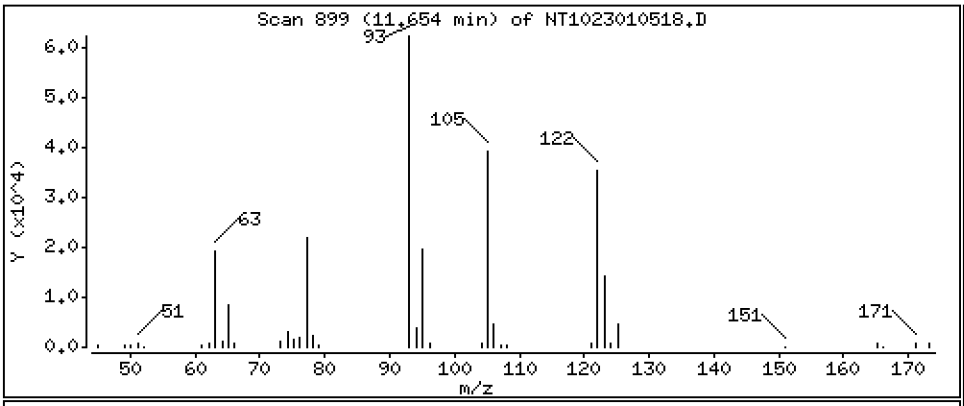
Operator: VTS

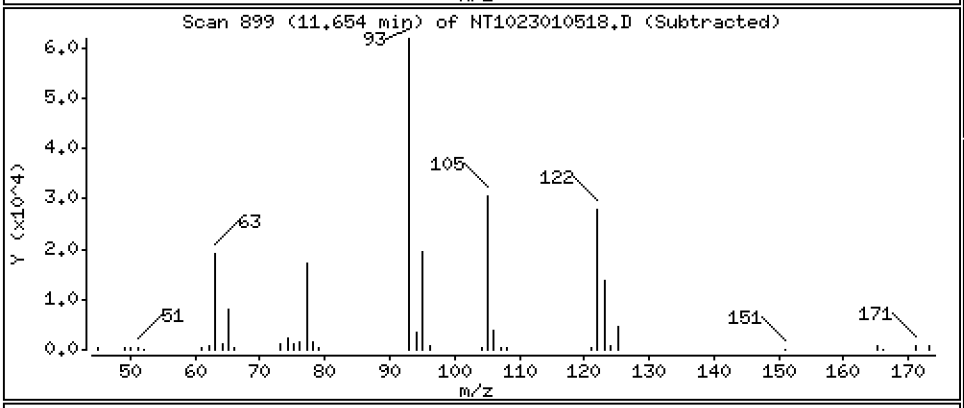
Column phase: ZB-5msi

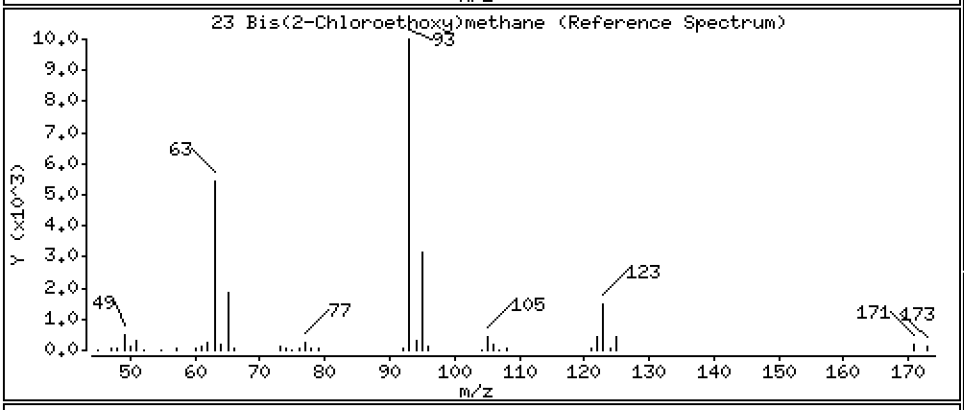
Column diameter: 0.25

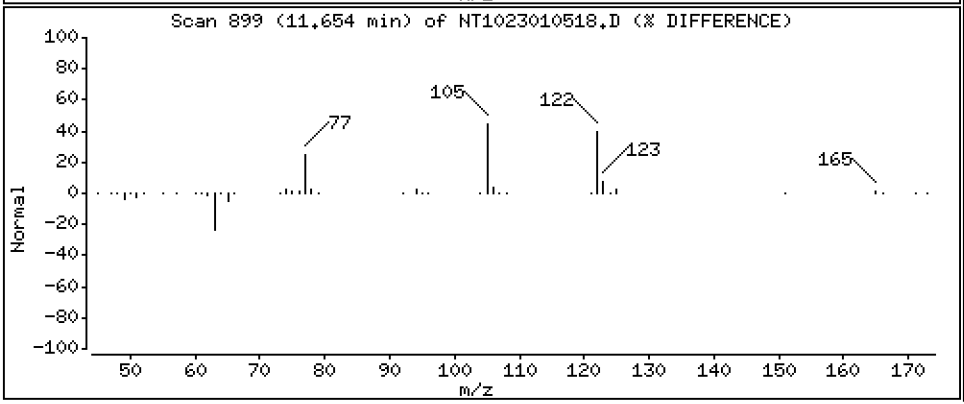
23 Bis(2-Chloroethoxy)methane

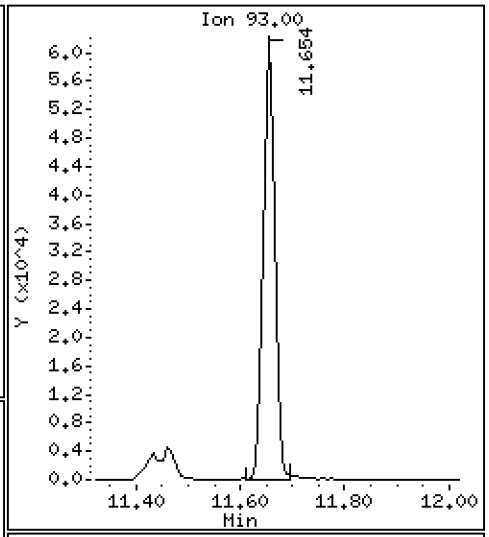
Concentration: 5.053 ug/mL

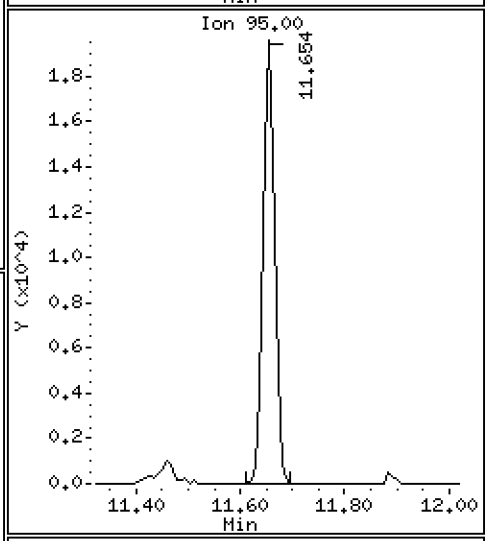


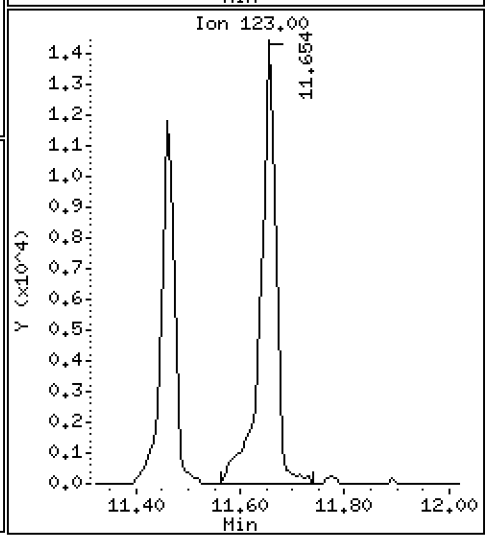












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

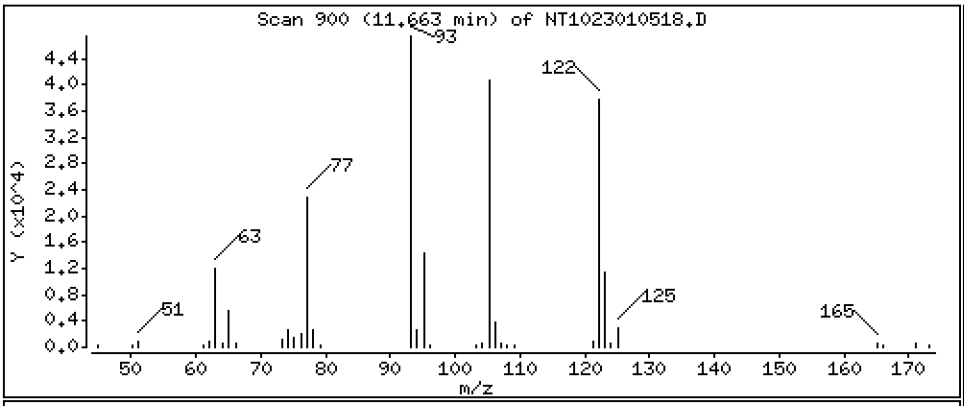
Operator: VTS

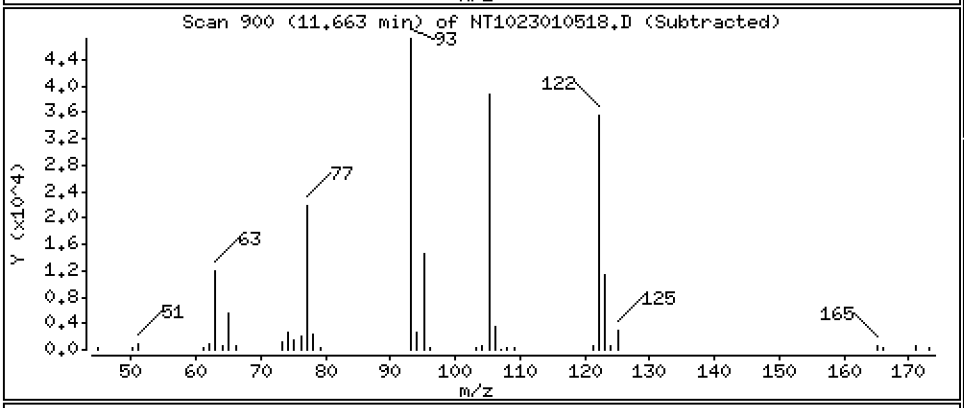
Column phase: ZB-5msi

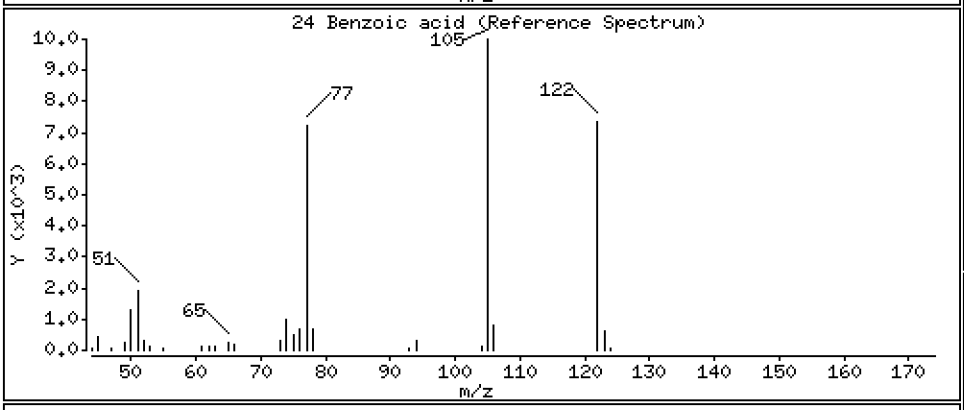
Column diameter: 0.25

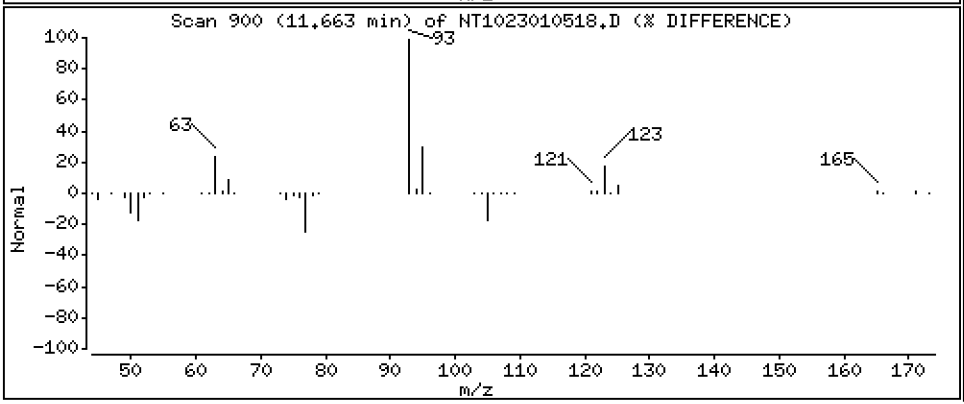
24 Benzoic acid

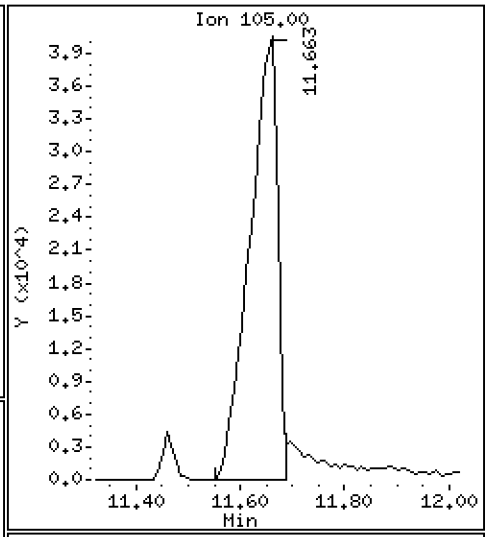
Concentration: 16.00 ug/mL

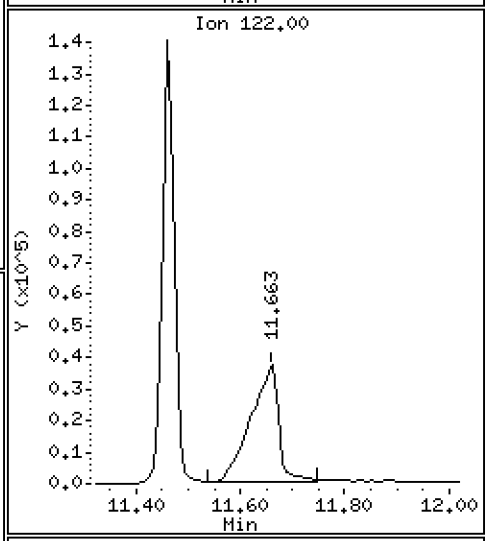


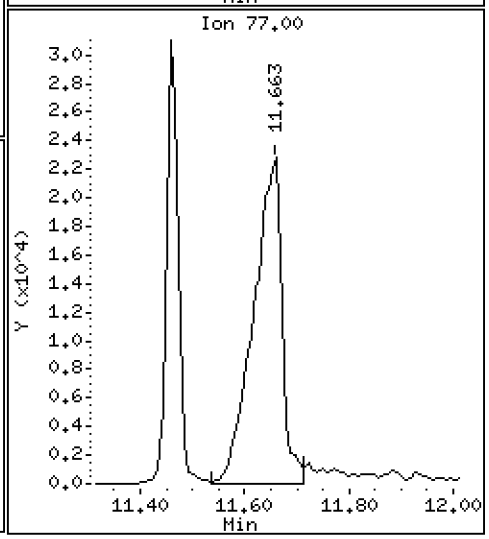












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

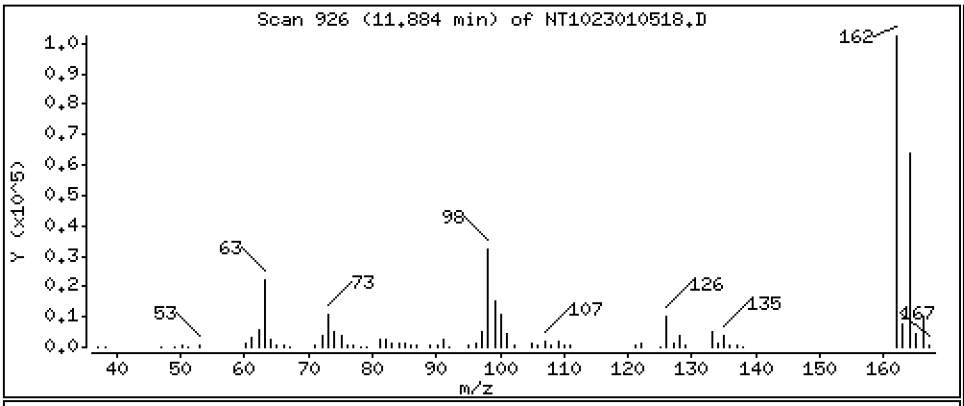
Operator: VTS

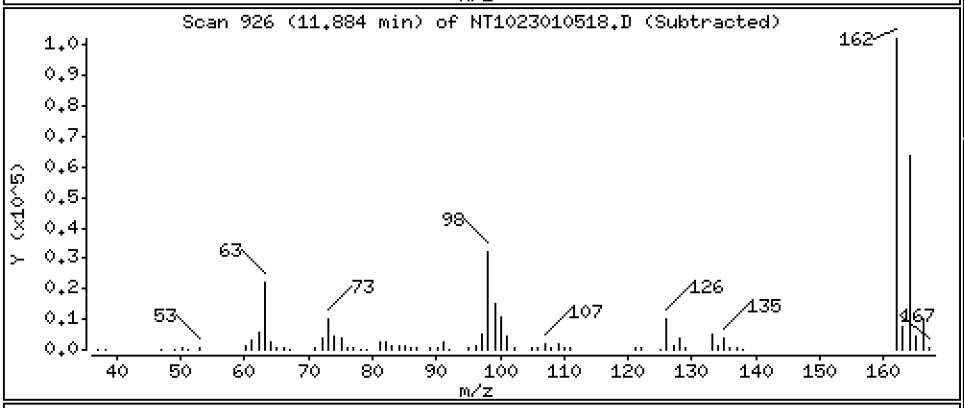
Column phase: ZB-5msi

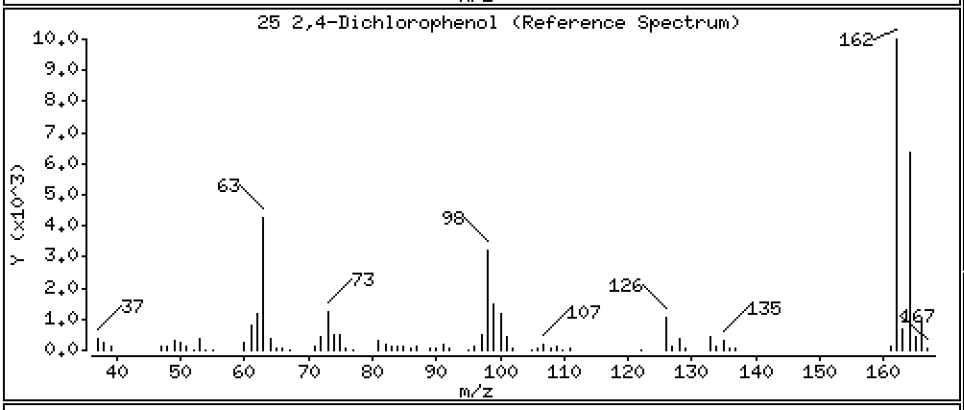
Column diameter: 0.25

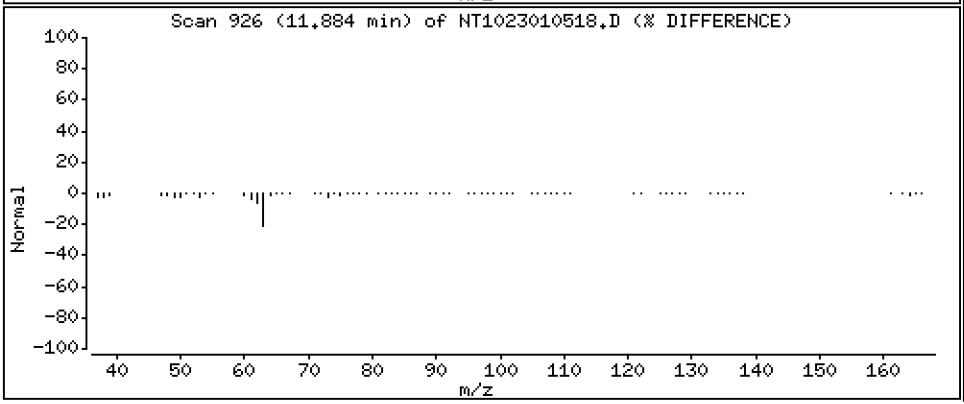
25 2,4-Dichlorophenol

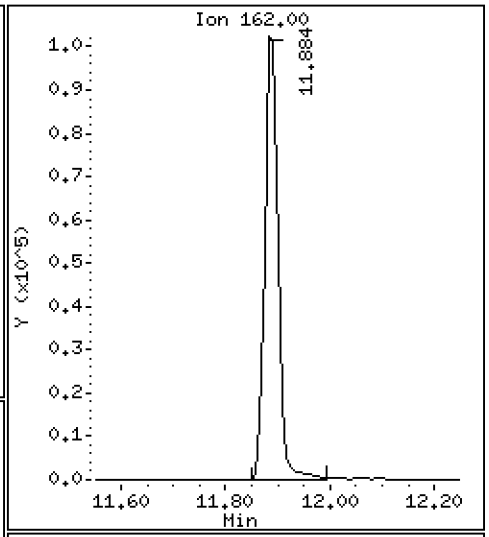
Concentration: 10.61 ug/mL

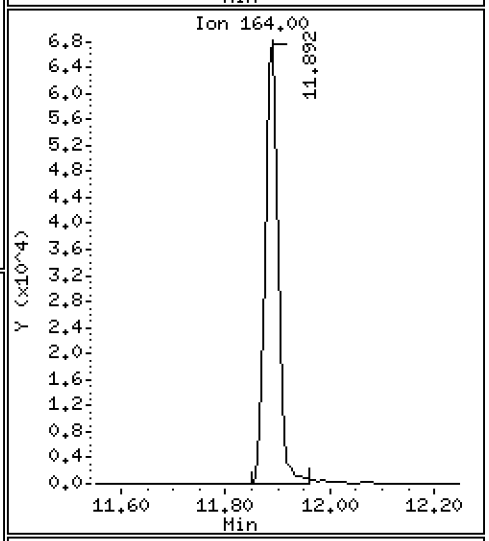


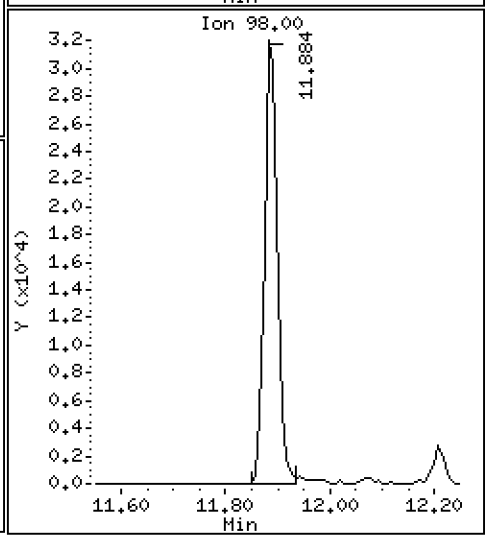












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

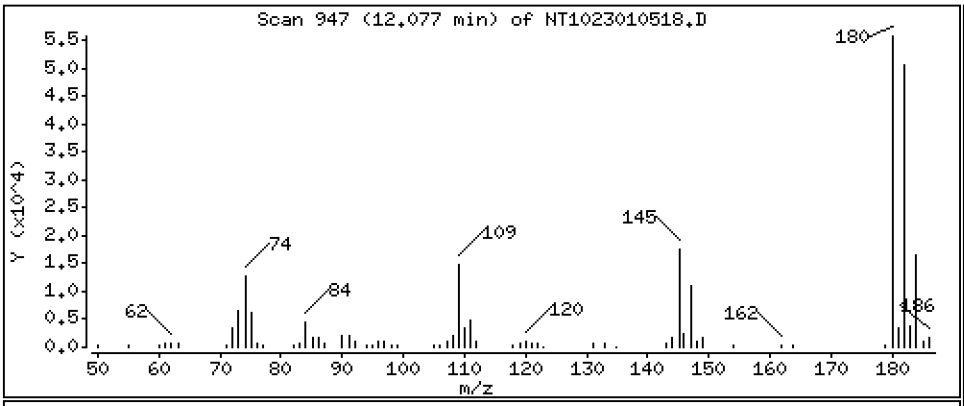
Operator: VTS

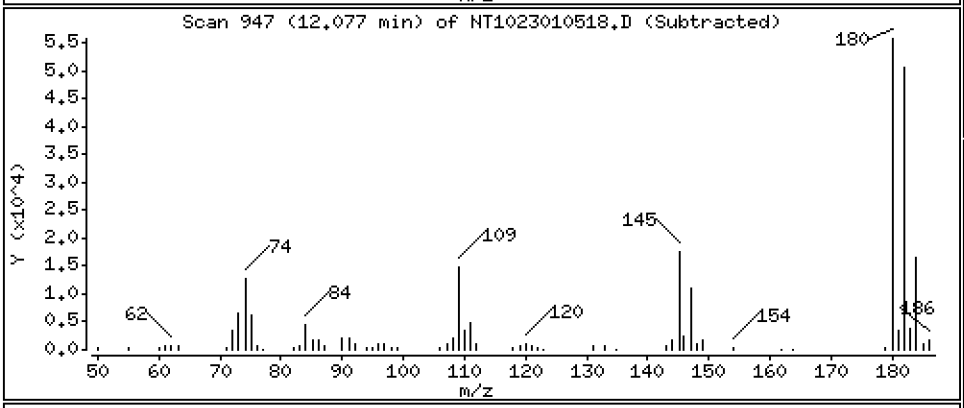
Column phase: ZB-5msi

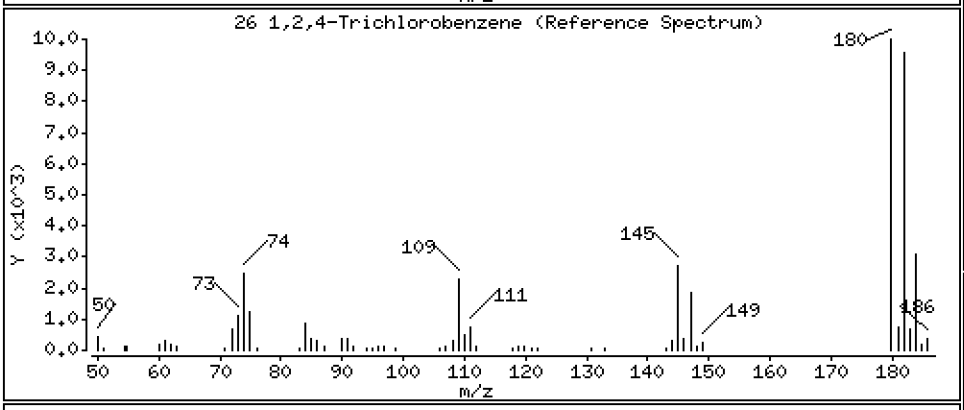
Column diameter: 0.25

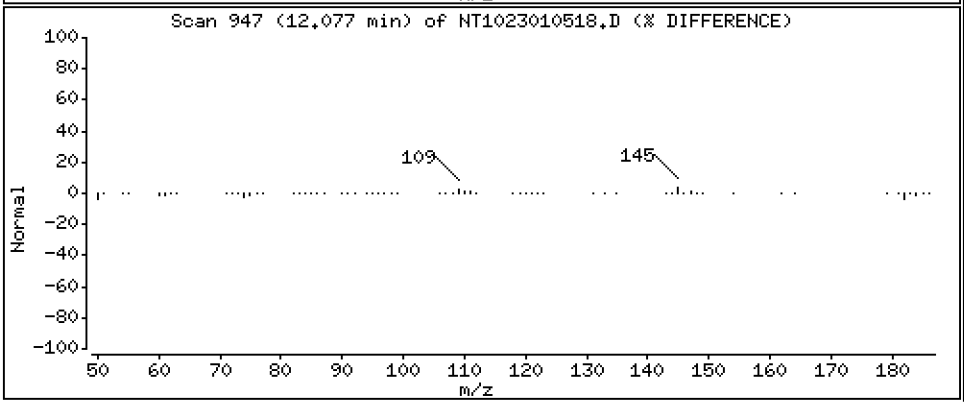
26 1,2,4-Trichlorobenzene

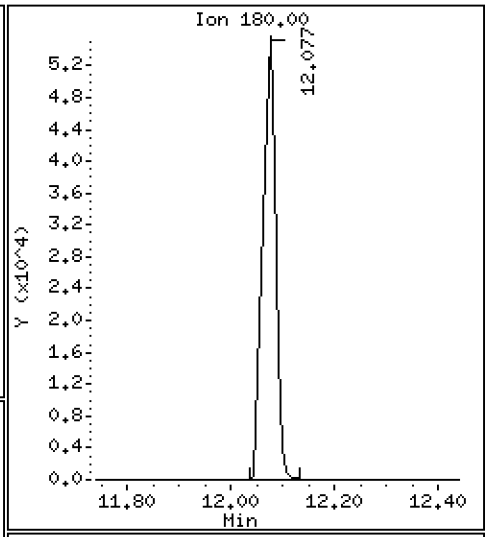
Concentration: 5.106 ug/mL

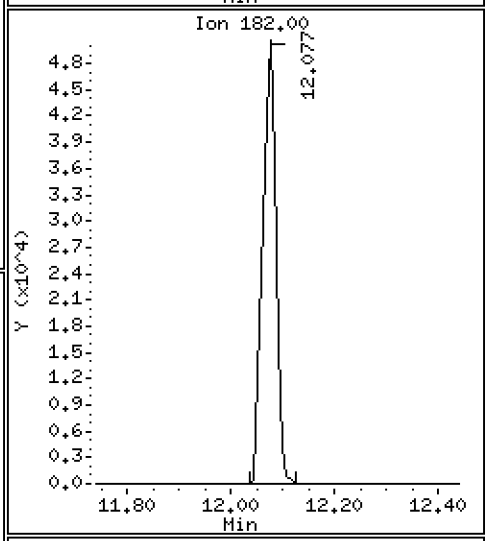


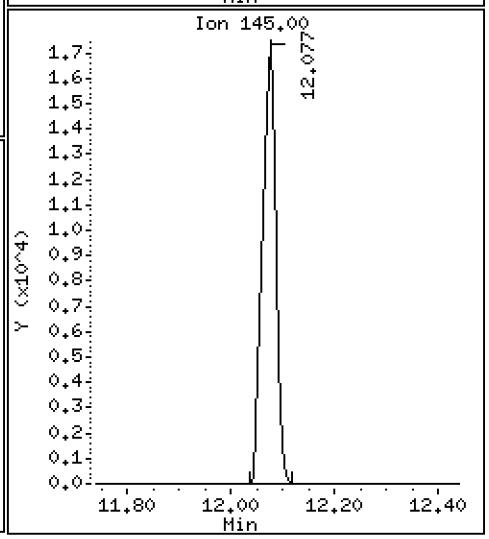












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

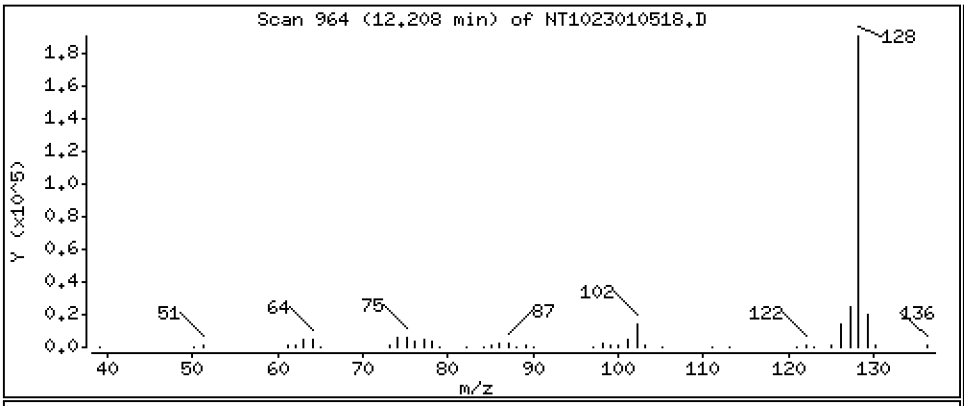
Operator: VTS

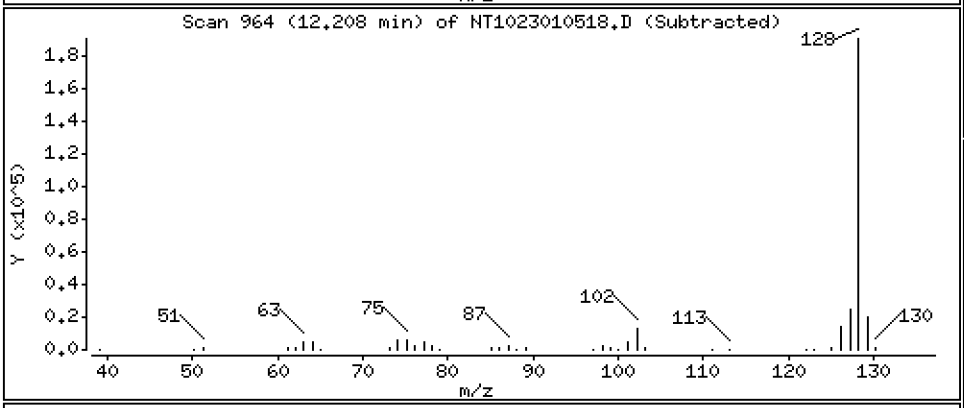
Column phase: ZB-5msi

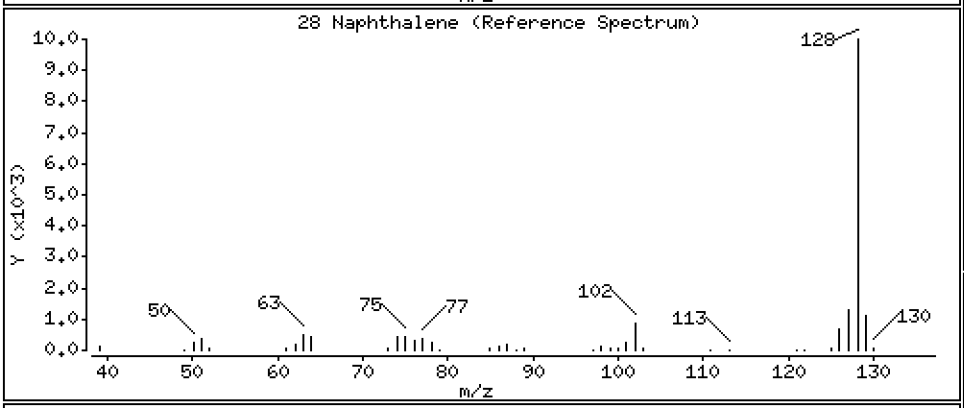
Column diameter: 0.25

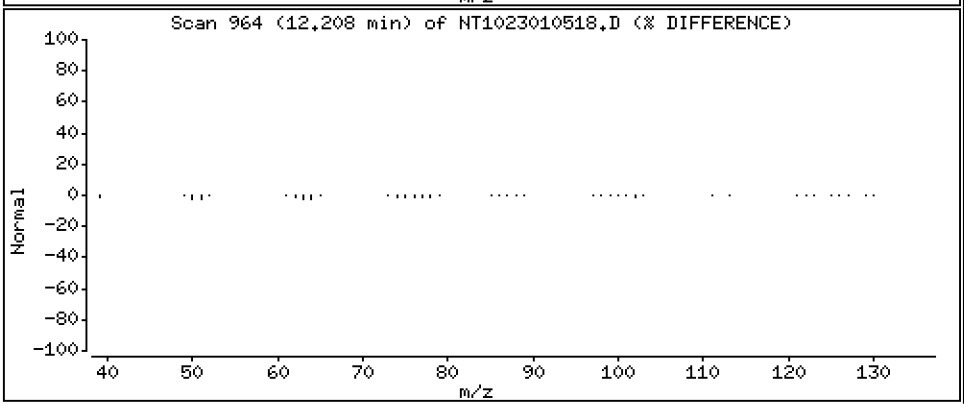
28 Naphthalene

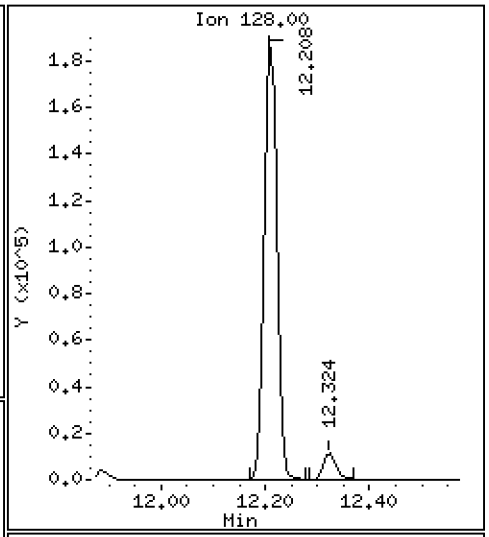
Concentration: 4.846 ug/mL

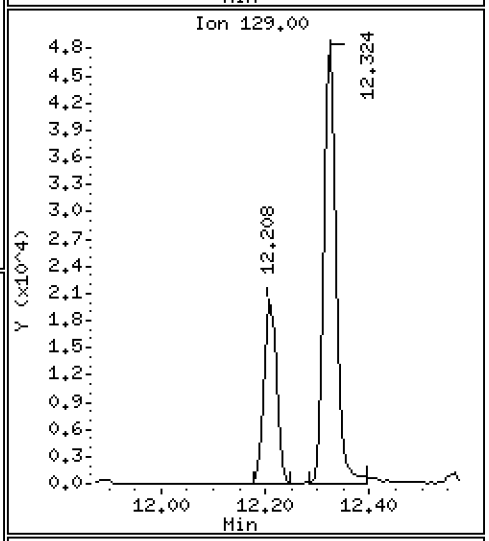


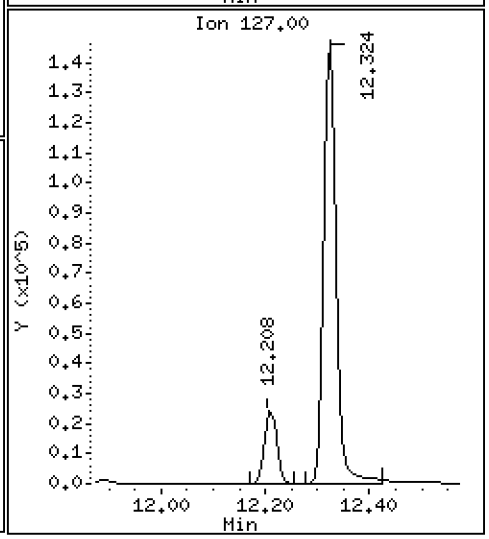












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

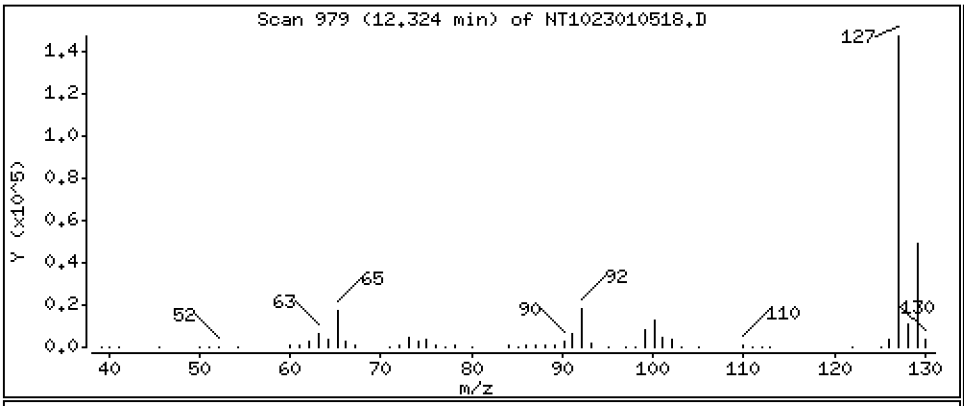
Operator: VTS

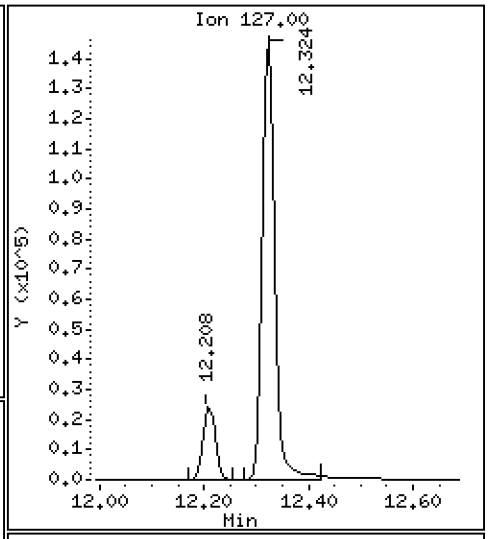
Column phase: ZB-5msi

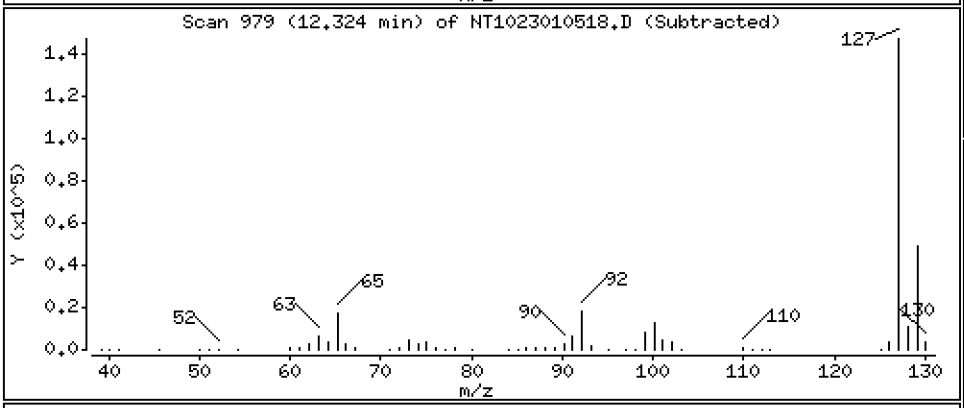
Column diameter: 0.25

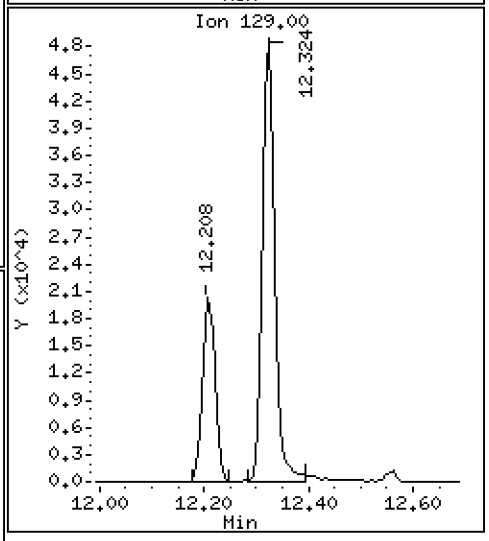
29 4-Chloroaniline

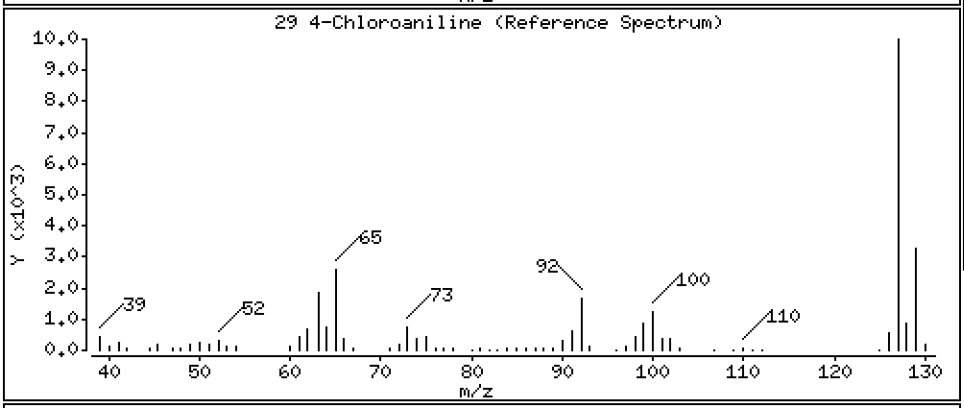
Concentration: 10.23 ug/mL

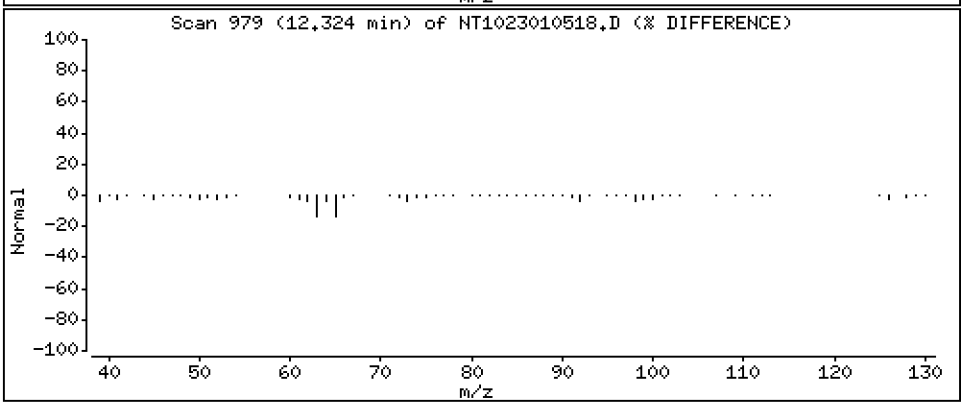












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

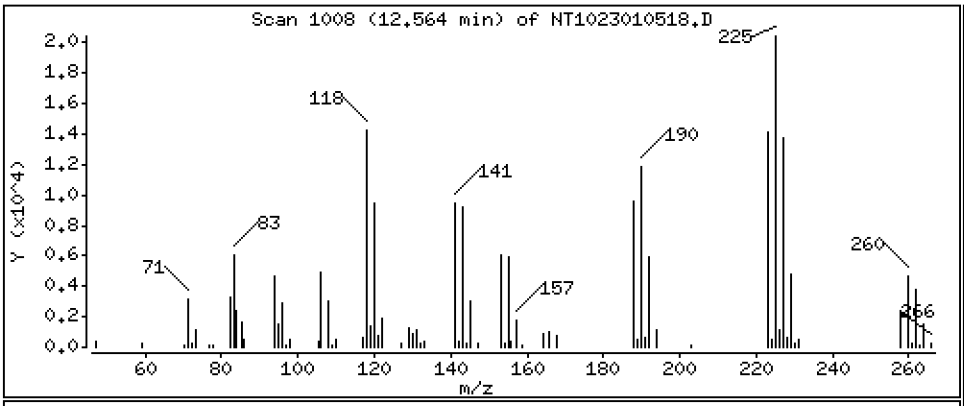
Operator: VTS

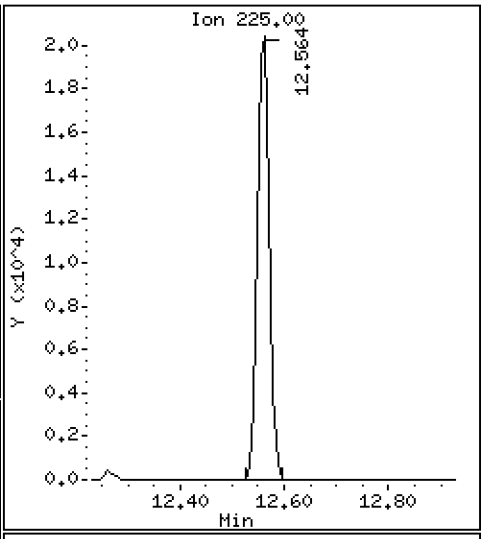
Column phase: ZB-5msi

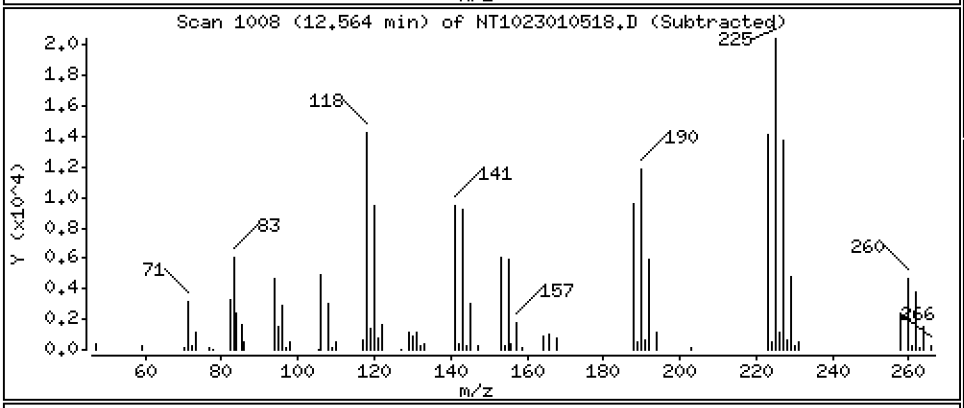
Column diameter: 0.25

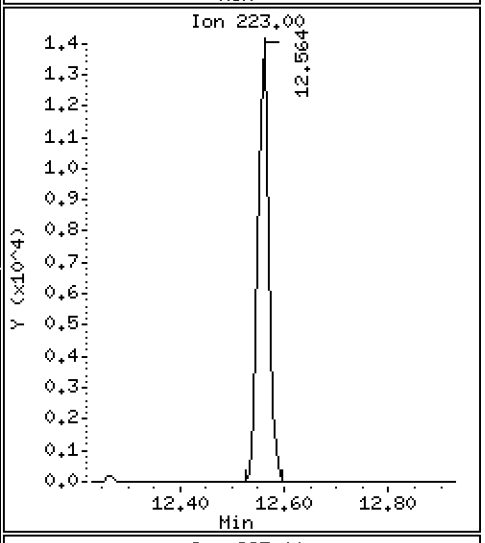
30 Hexachlorobutadiene

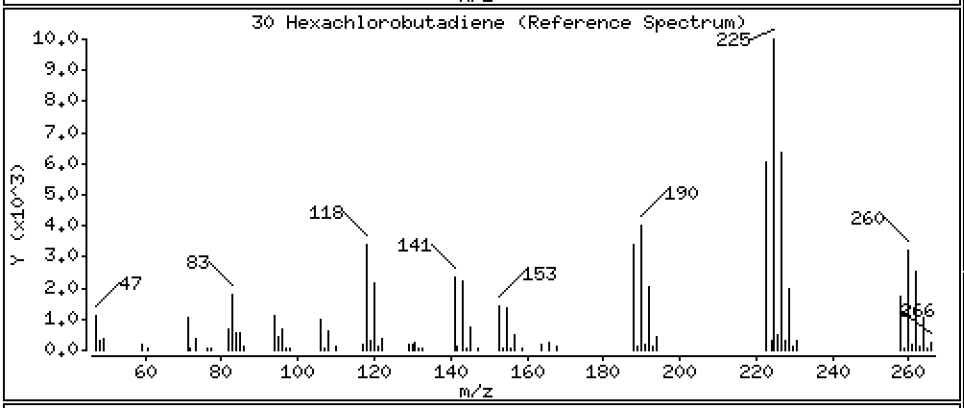
Concentration: 5.023 ug/mL

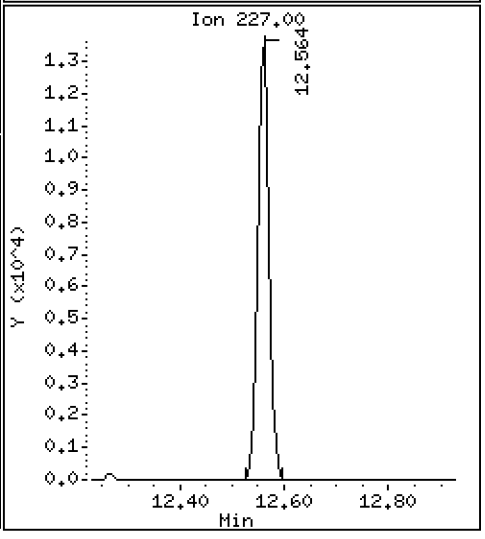


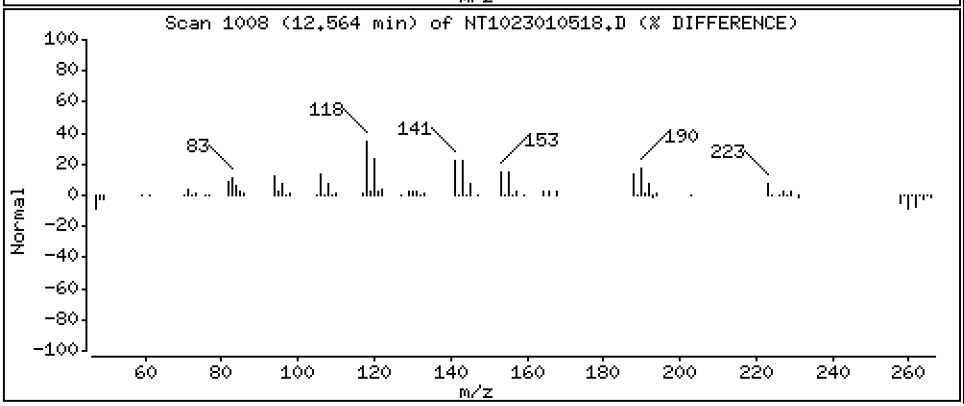












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

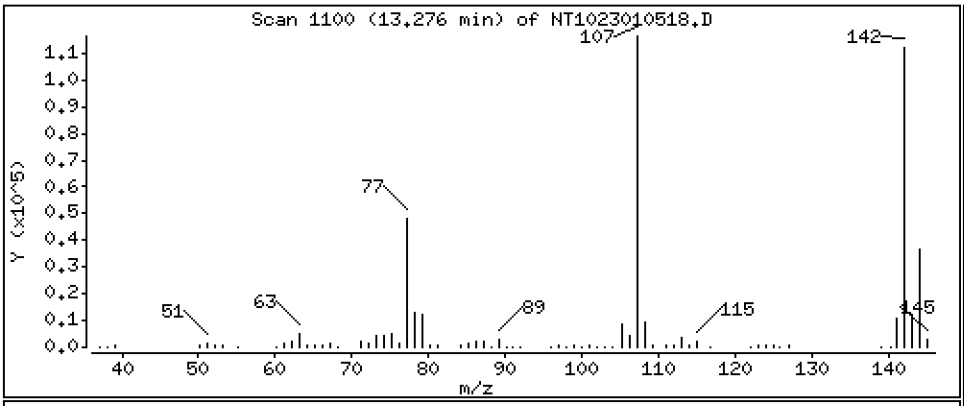
Operator: VTS

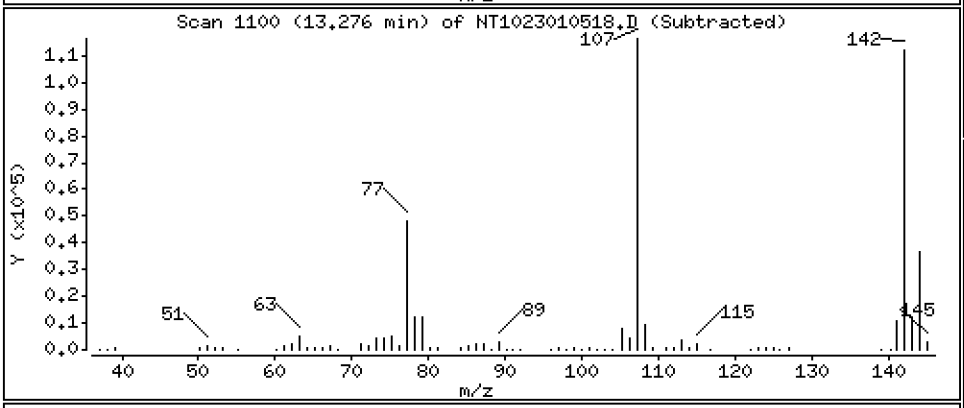
Column phase: ZB-5msi

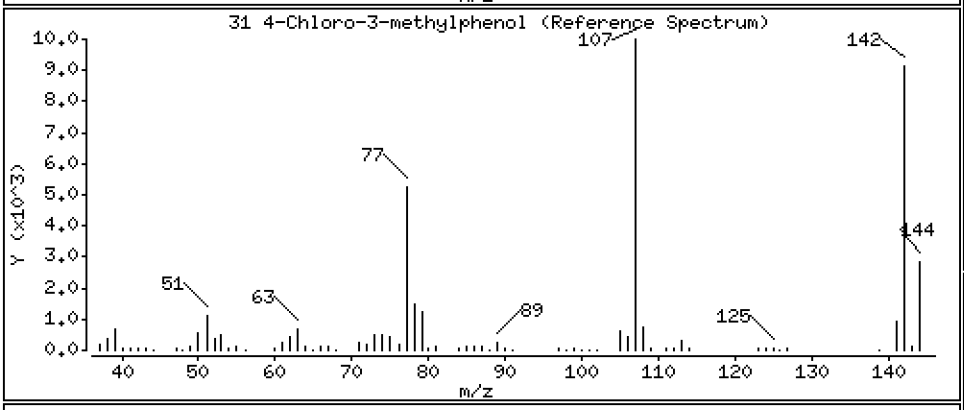
Column diameter: 0.25

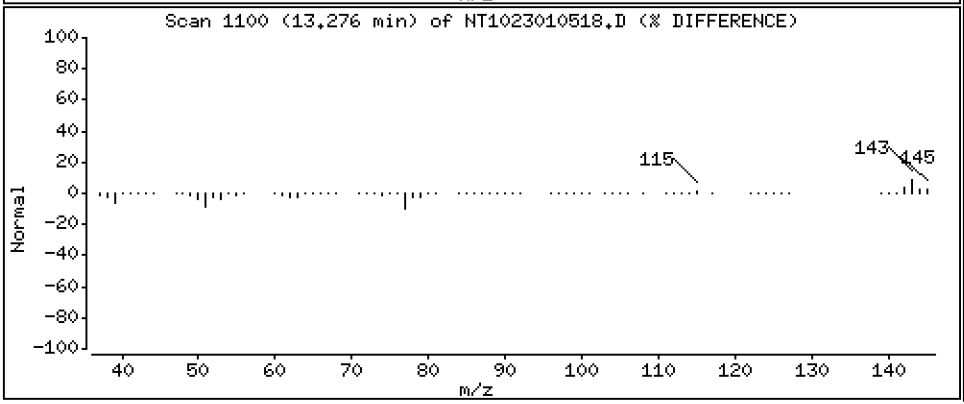
31 4-Chloro-3-methylphenol

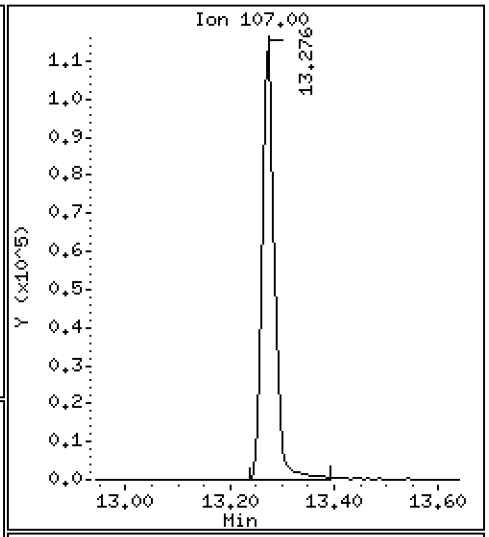
Concentration: 10.19 ug/mL

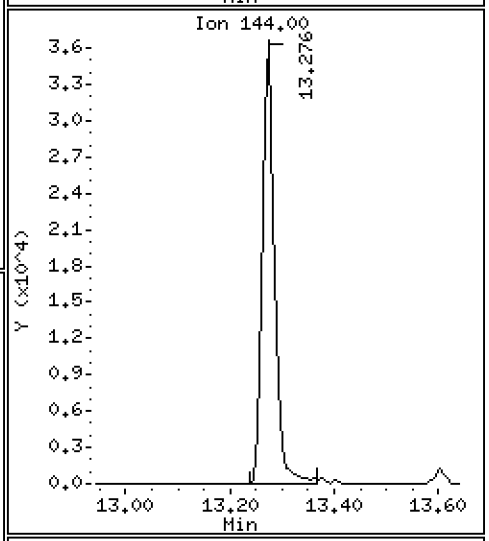


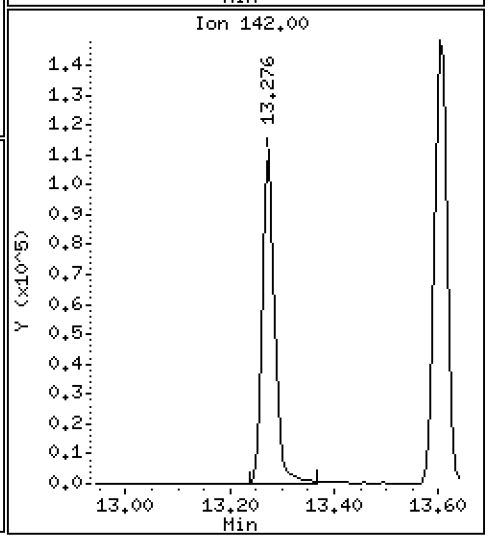












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

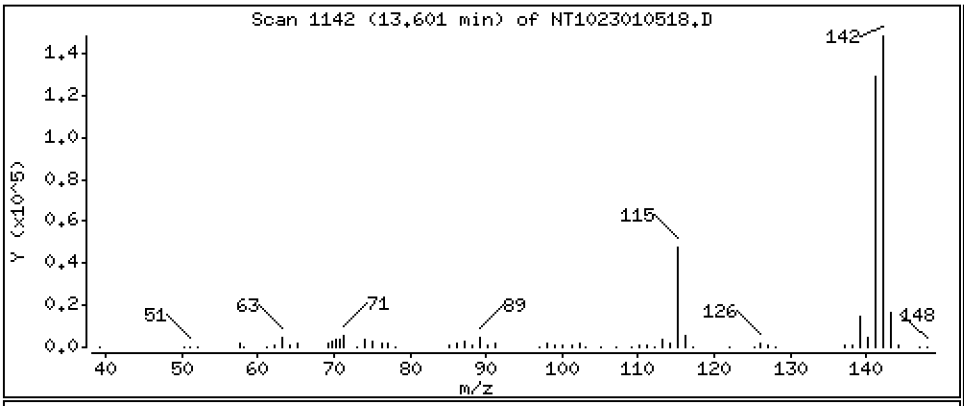
Operator: VTS

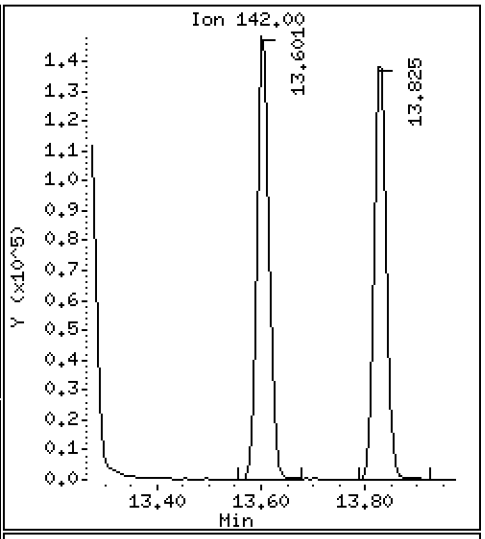
Column phase: ZB-5msi

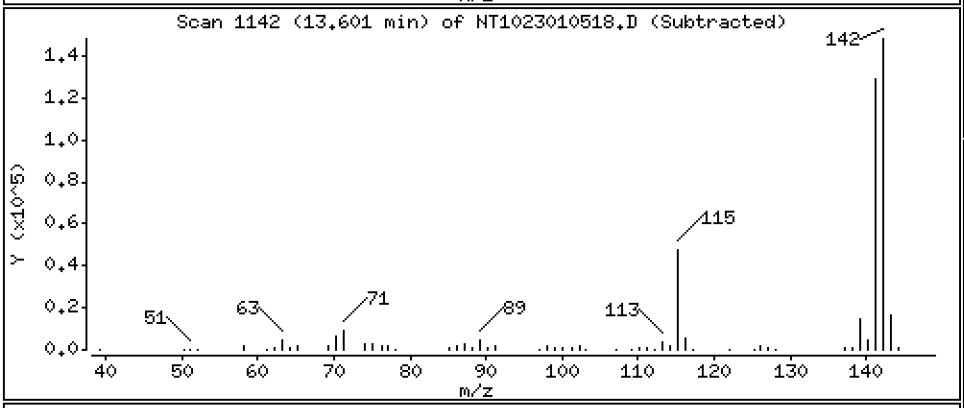
Column diameter: 0.25

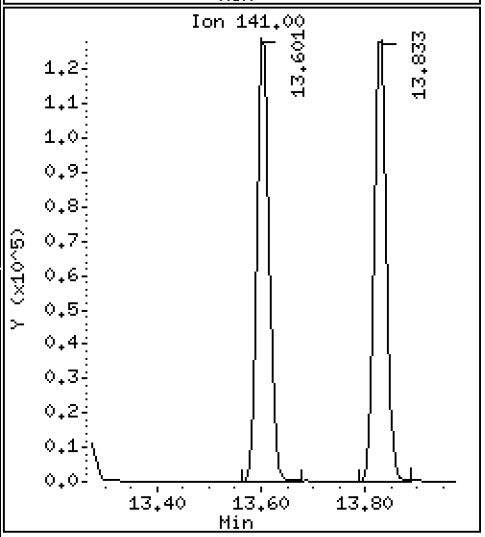
32 2-Methylnaphthalene

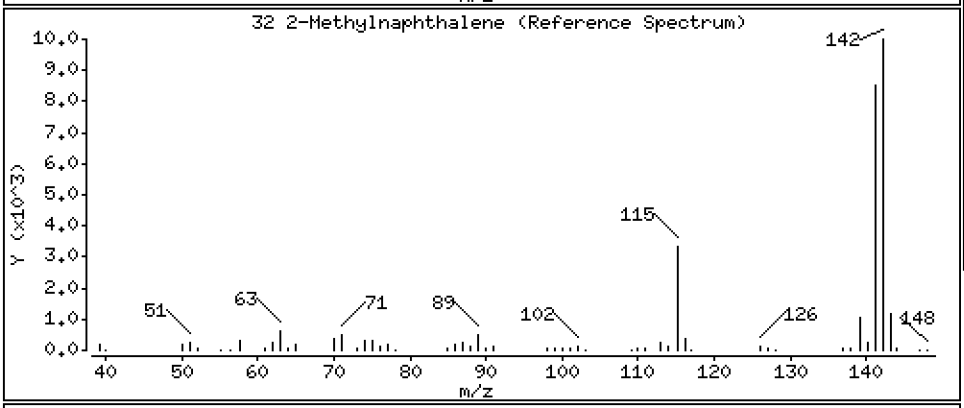
Concentration: 4.897 ug/mL

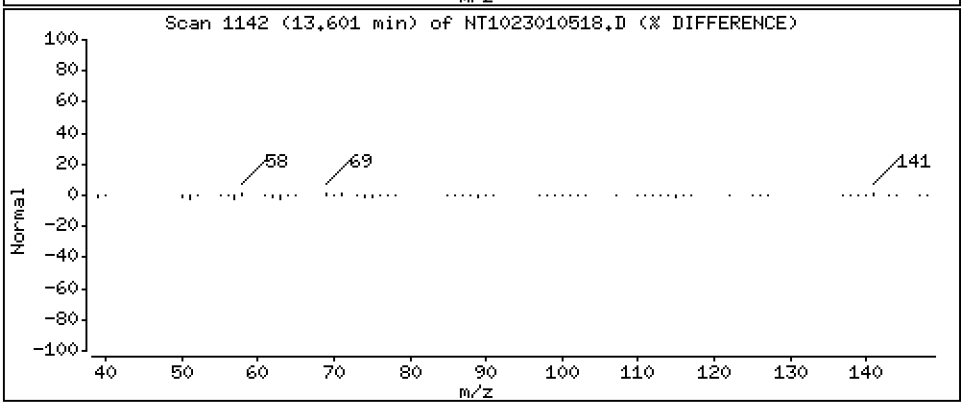












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

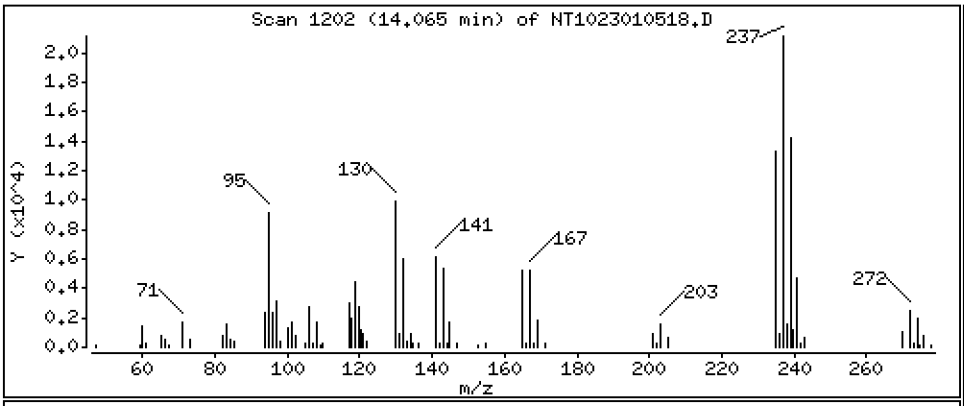
Operator: VTS

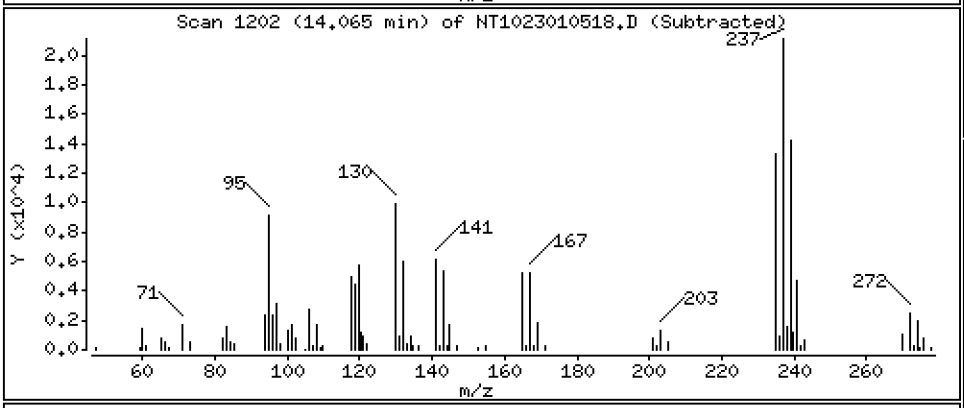
Column phase: ZB-5msi

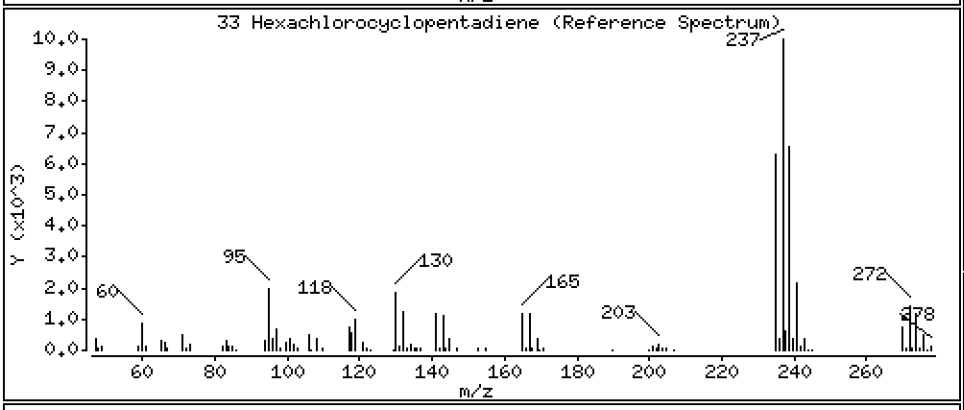
Column diameter: 0.25

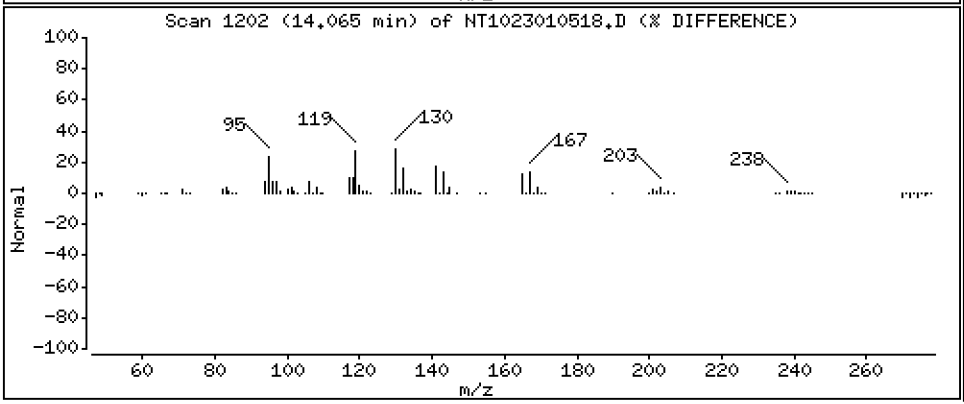
33 Hexachlorocyclopentadiene

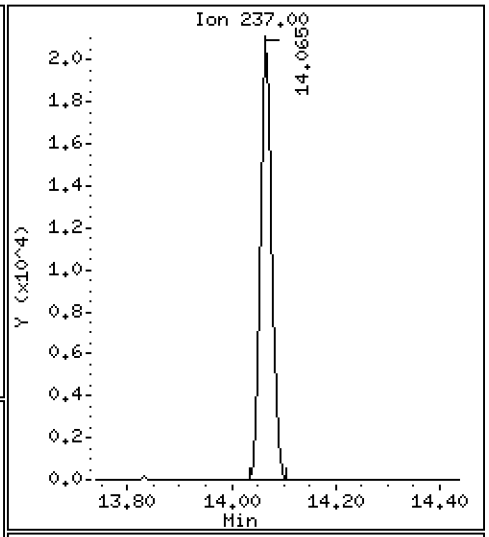
Concentration: 4.527 ug/mL

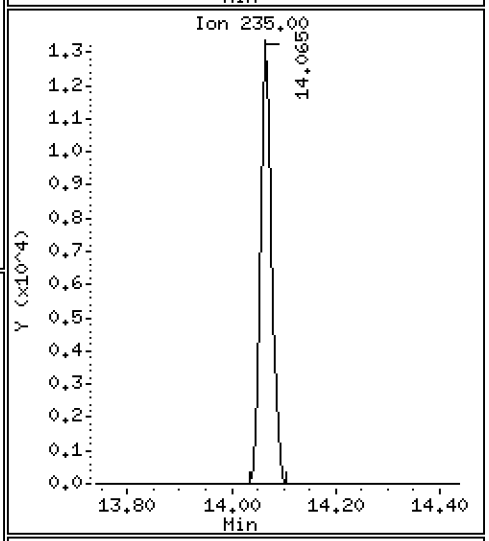


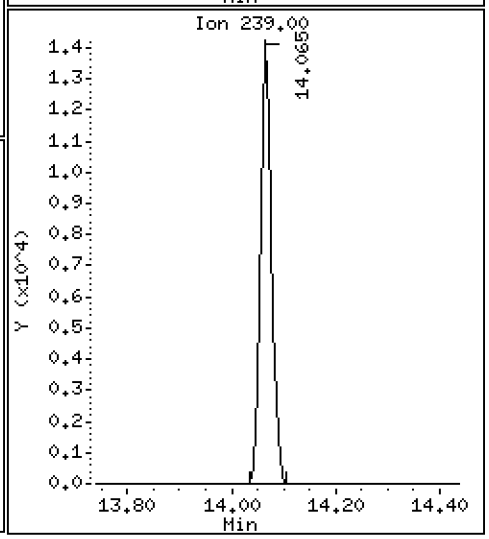












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

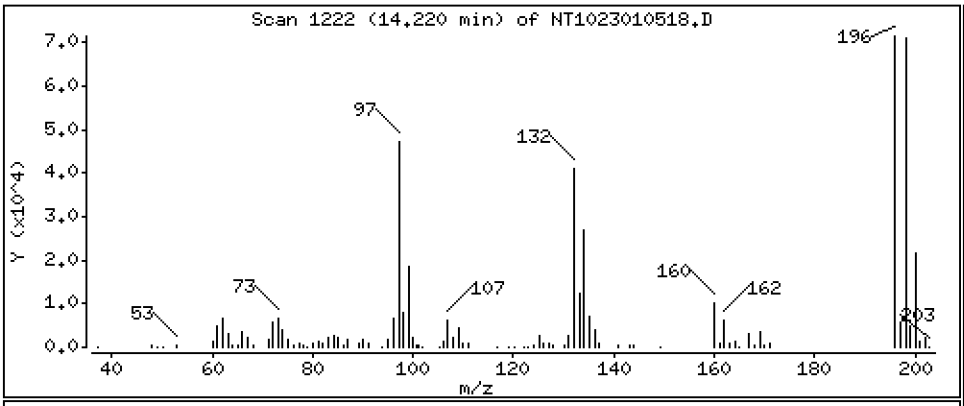
Operator: VTS

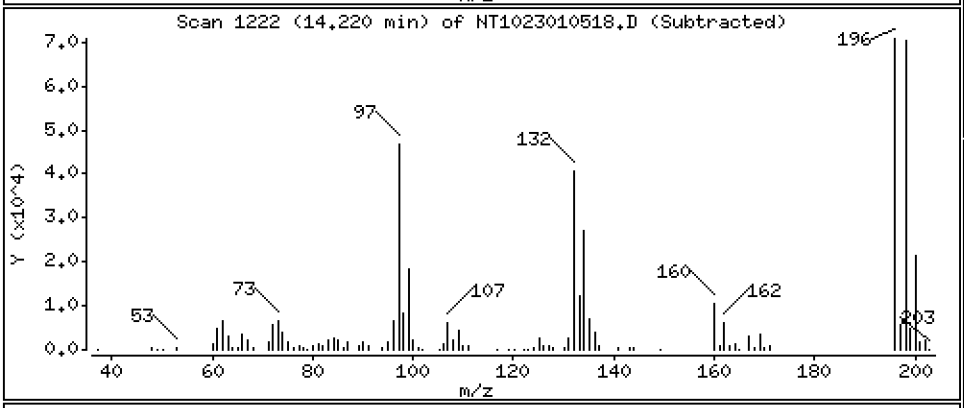
Column phase: ZB-5msi

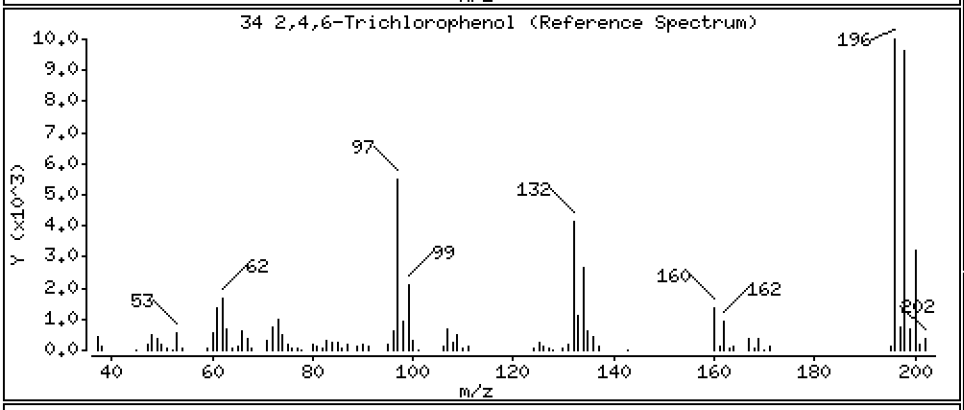
Column diameter: 0.25

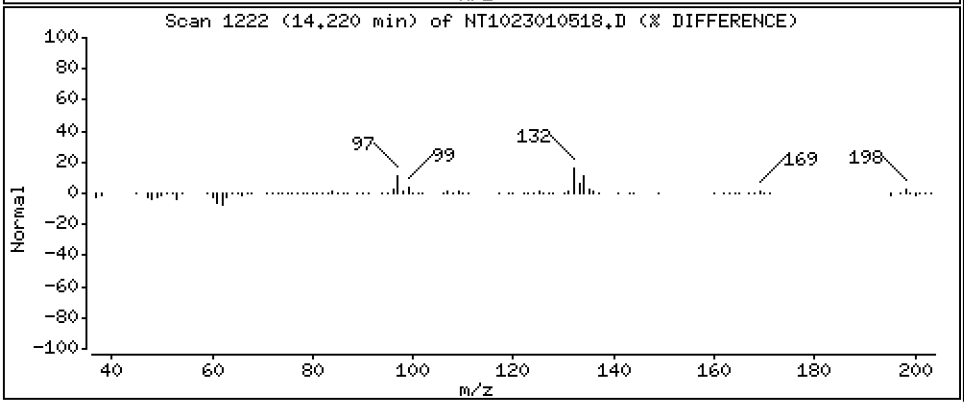
34 2,4,6-Trichlorophenol

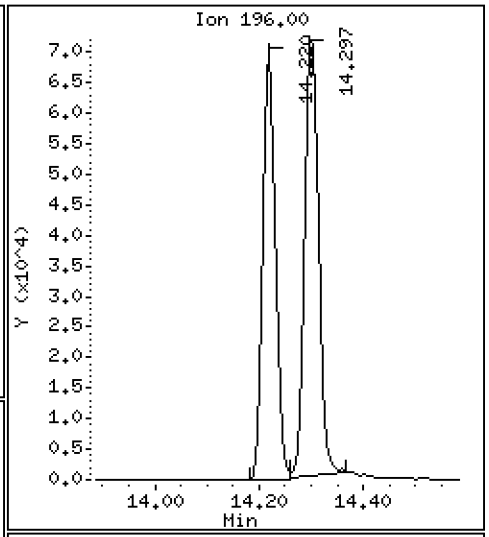
Concentration: 10.40 ug/mL

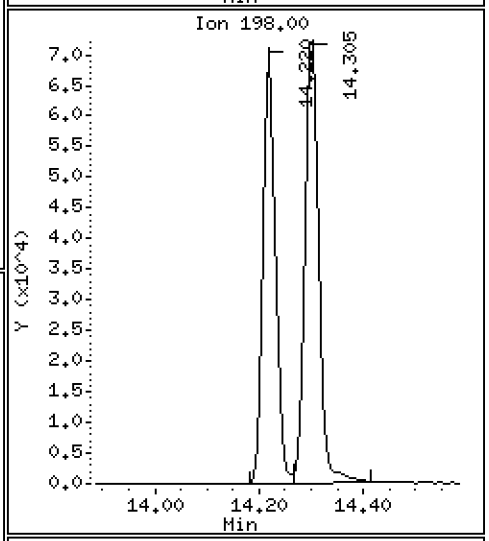


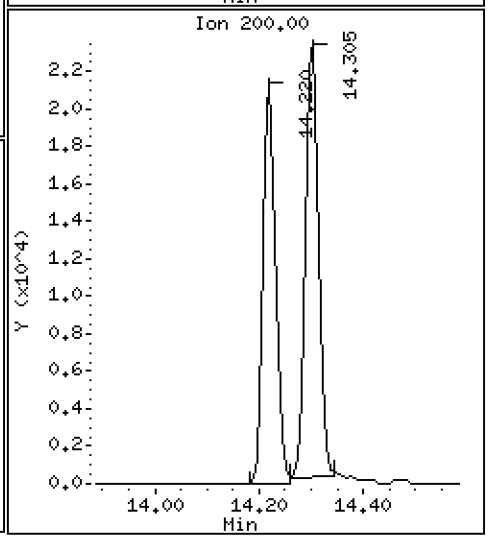












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

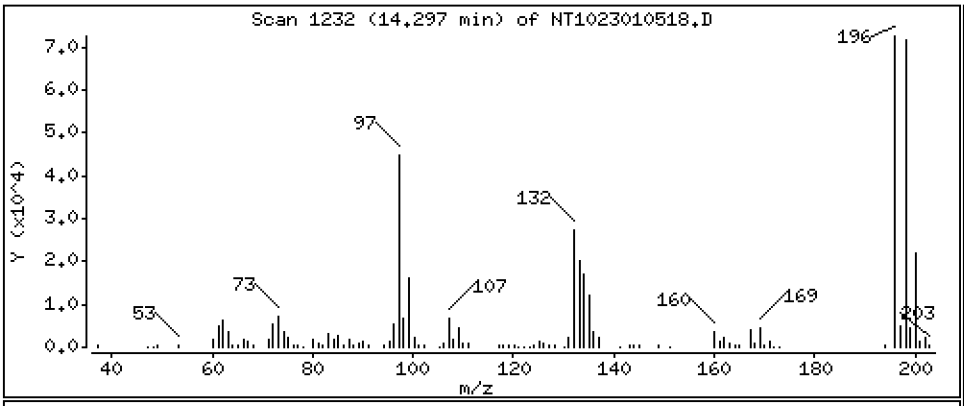
Operator: VTS

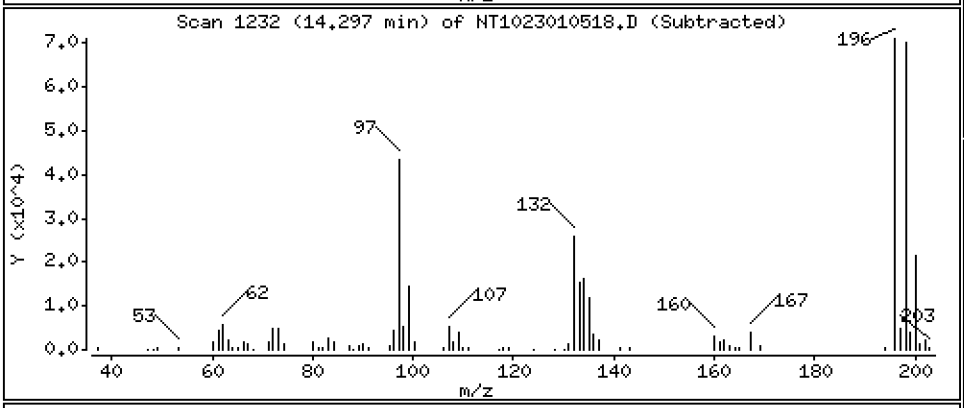
Column phase: ZB-5msi

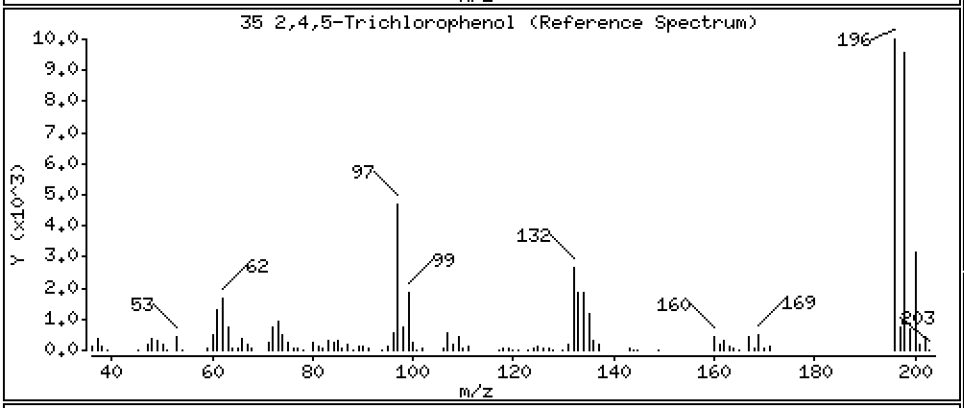
Column diameter: 0.25

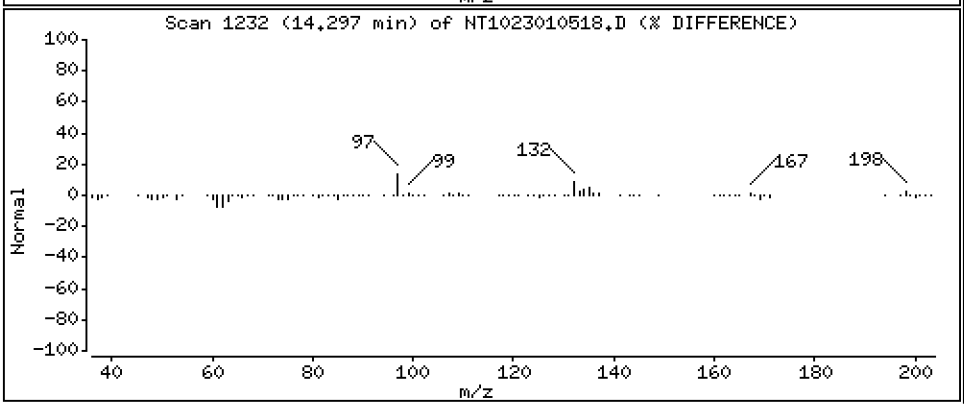
35 2,4,5-Trichlorophenol

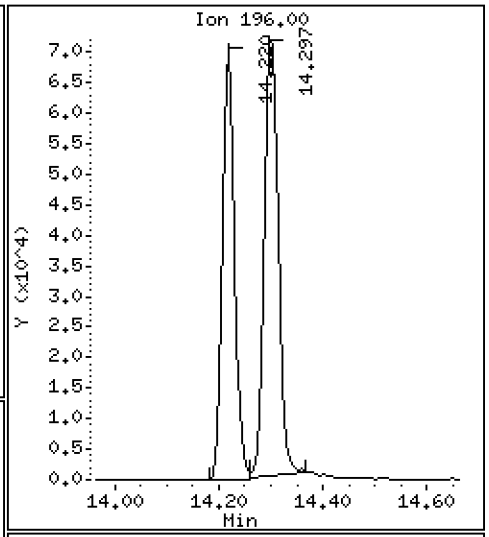
Concentration: 10.57 ug/mL

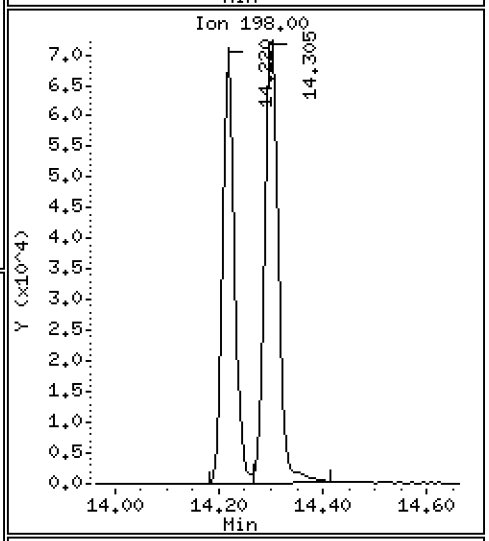


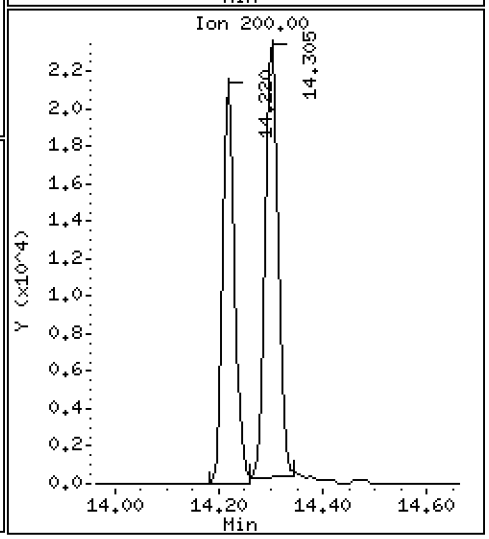












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

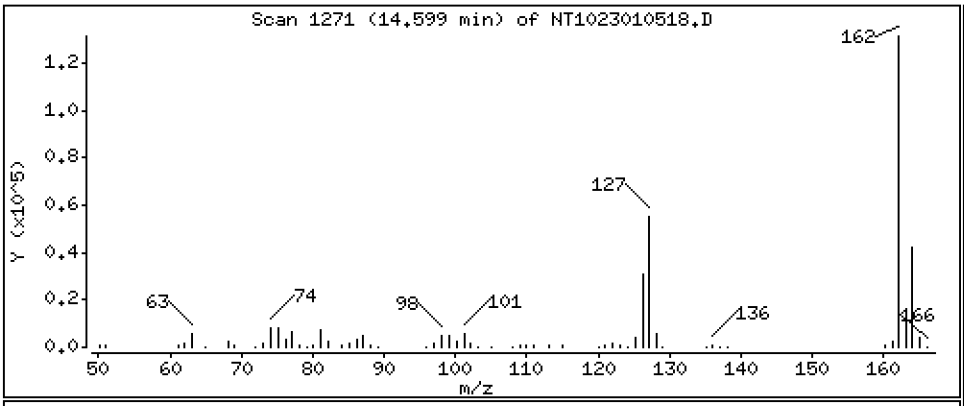
Operator: VTS

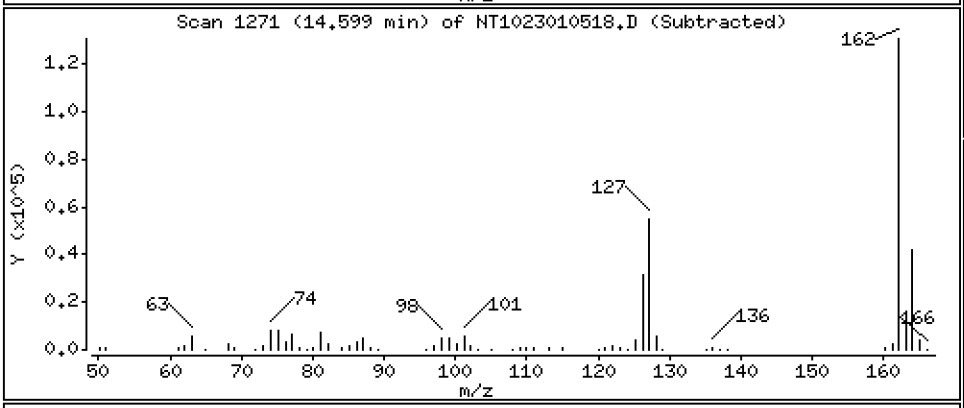
Column phase: ZB-5msi

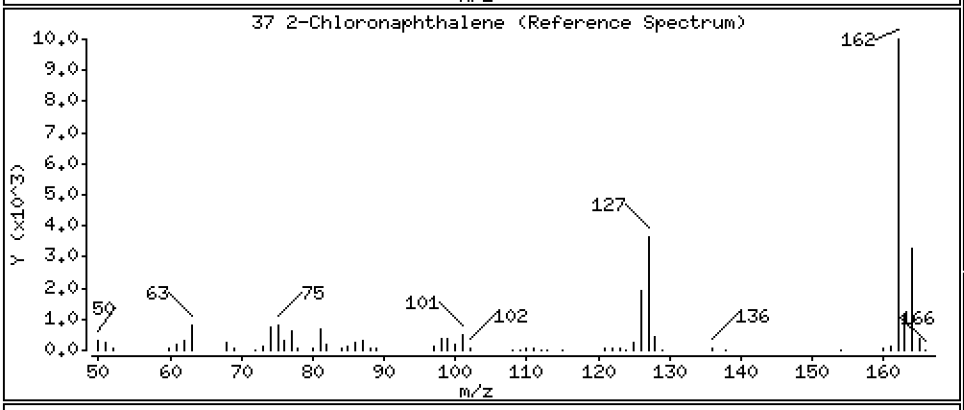
Column diameter: 0.25

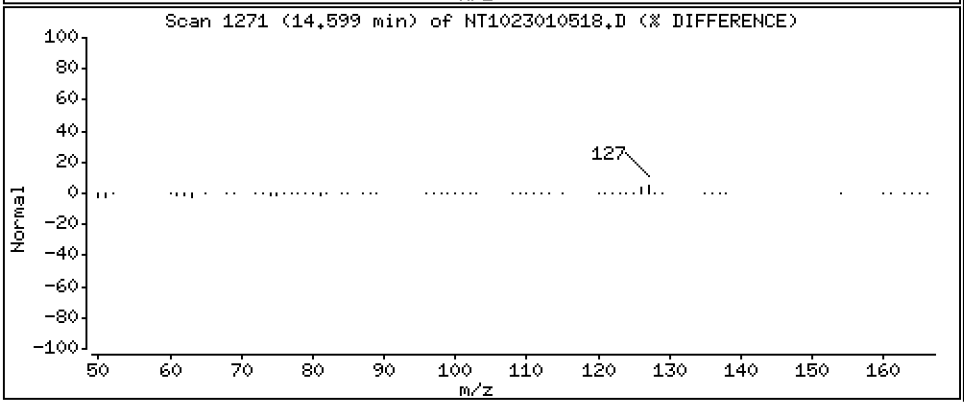
37 2-Chloronaphthalene

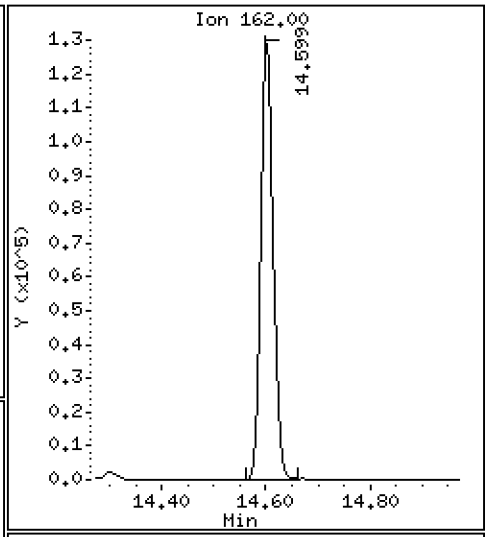
Concentration: 4.994 ug/mL

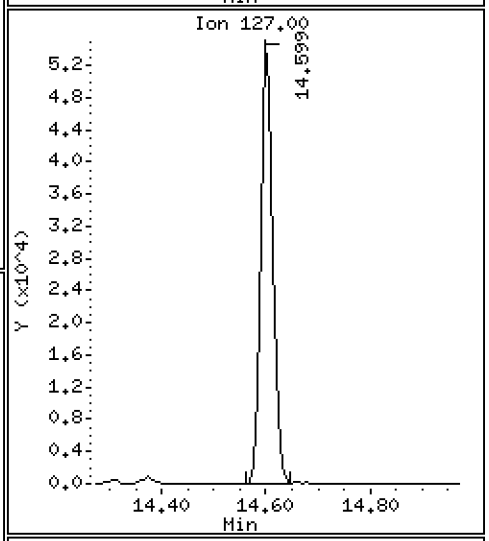


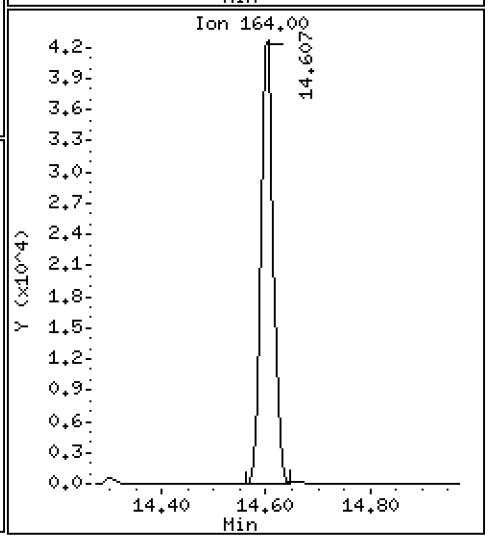












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

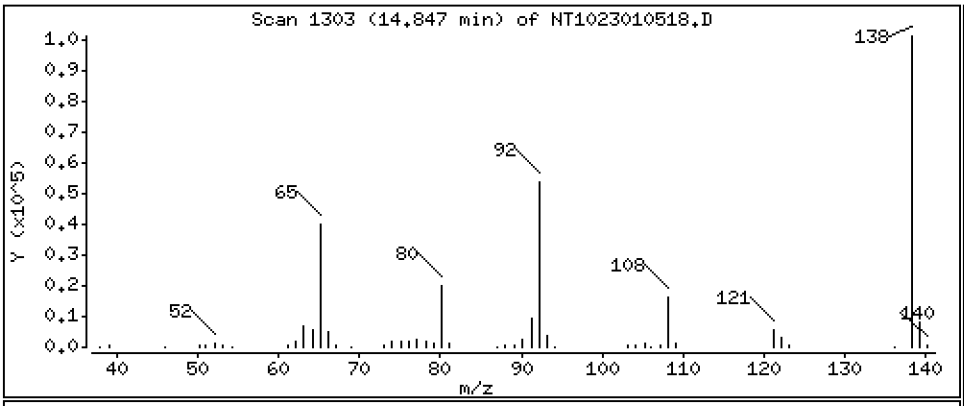
Operator: VTS

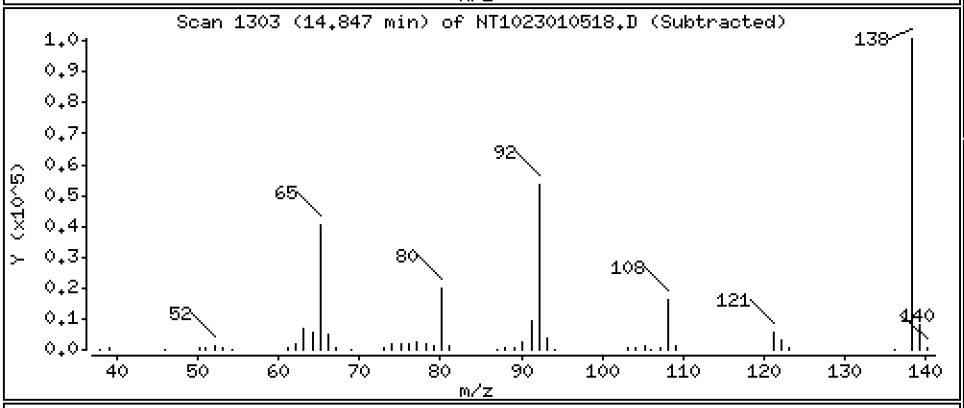
Column phase: ZB-5msi

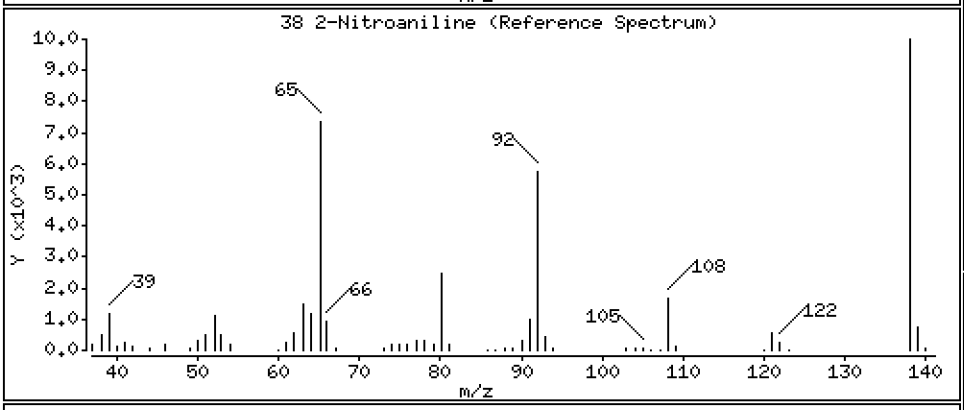
Column diameter: 0.25

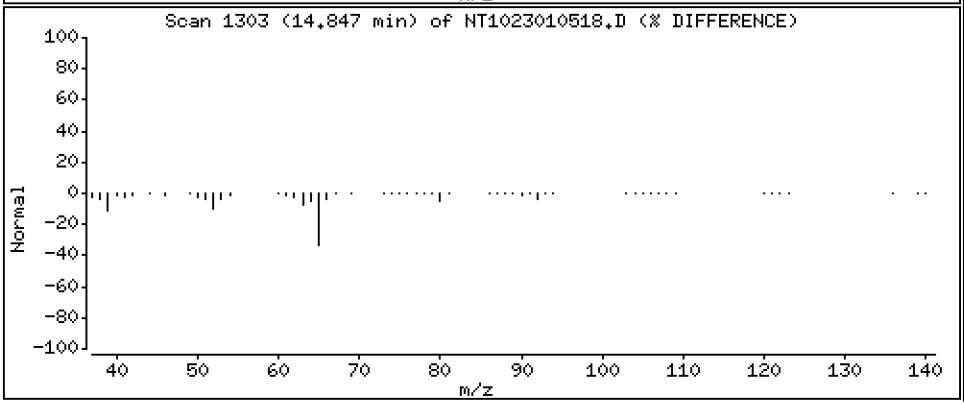
38 2-Nitroaniline

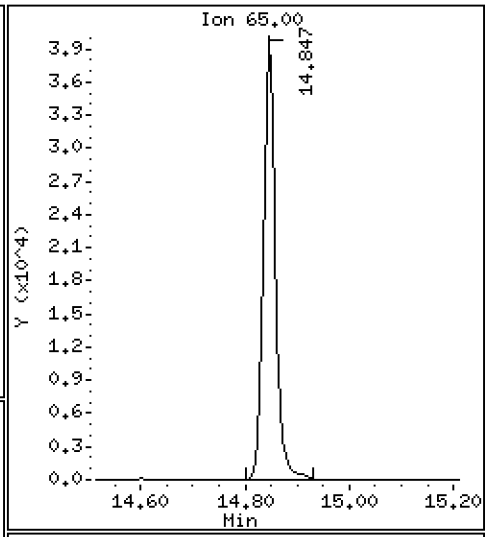
Concentration: 10.71 ug/mL

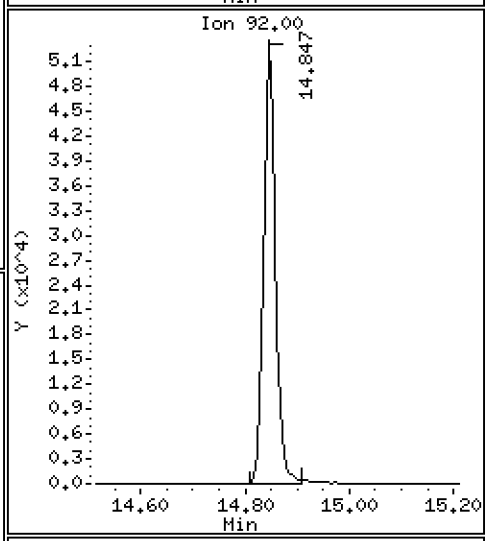


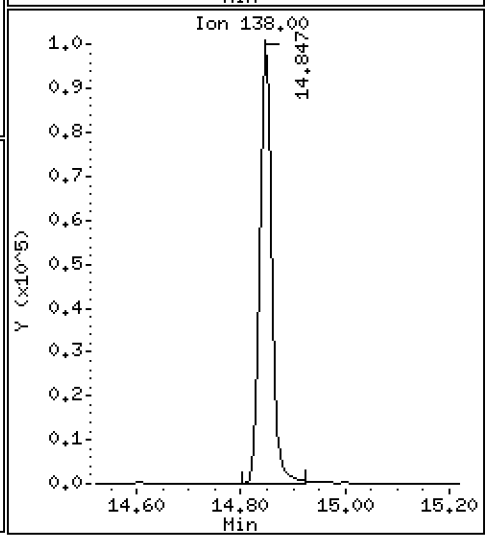












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

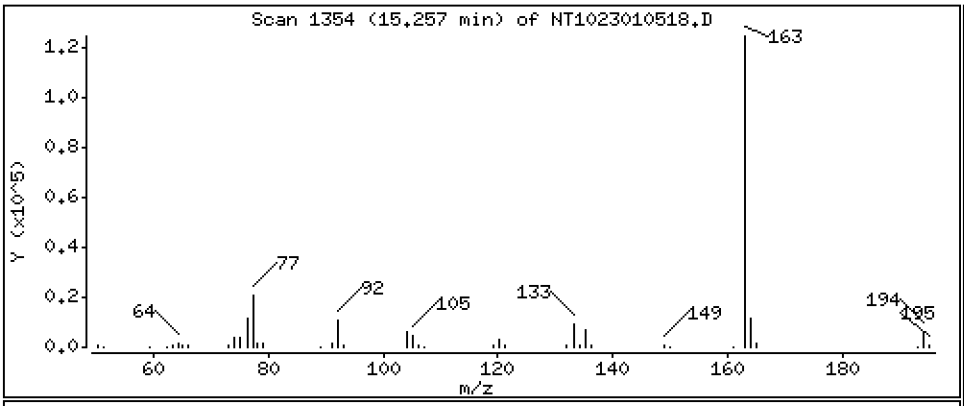
Operator: VTS

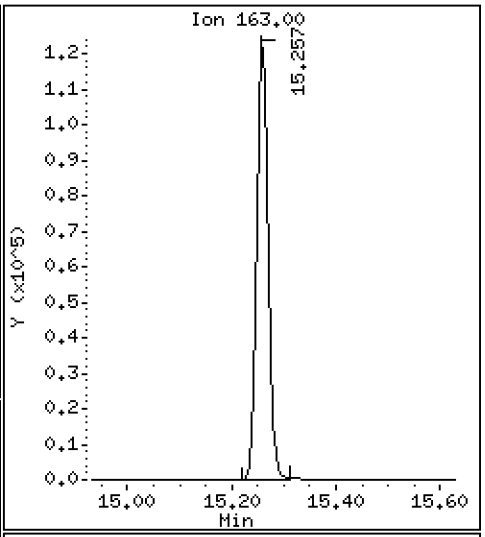
Column phase: ZB-5msi

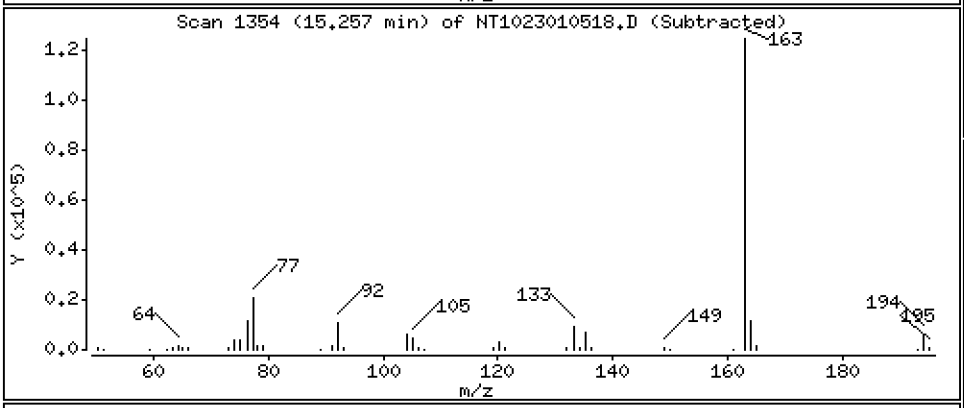
Column diameter: 0.25

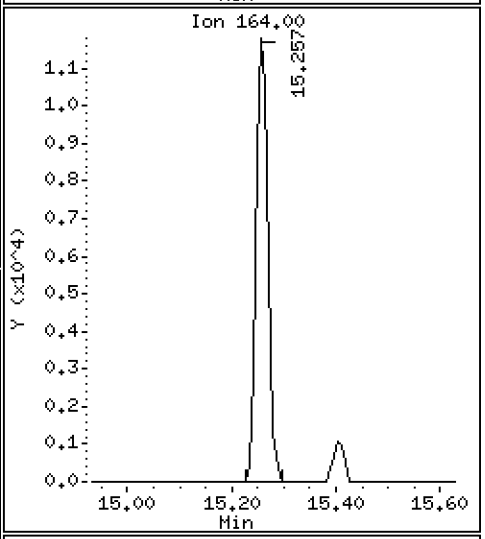
39 Dimethylphthalate

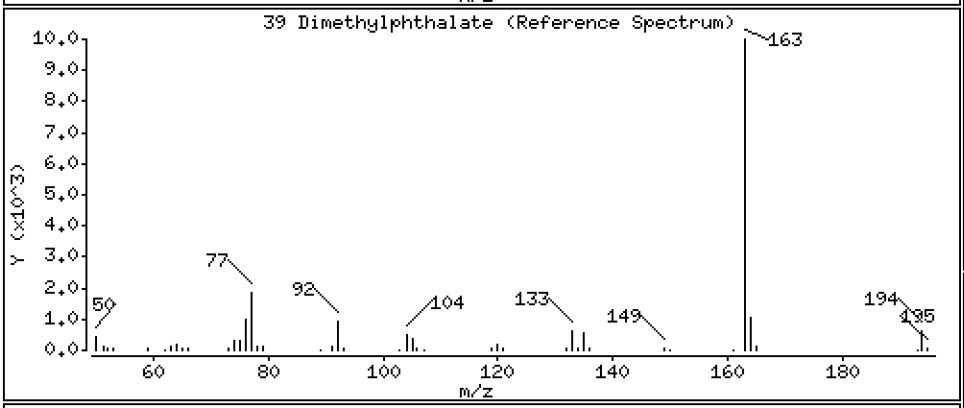
Concentration: 4.970 ug/mL

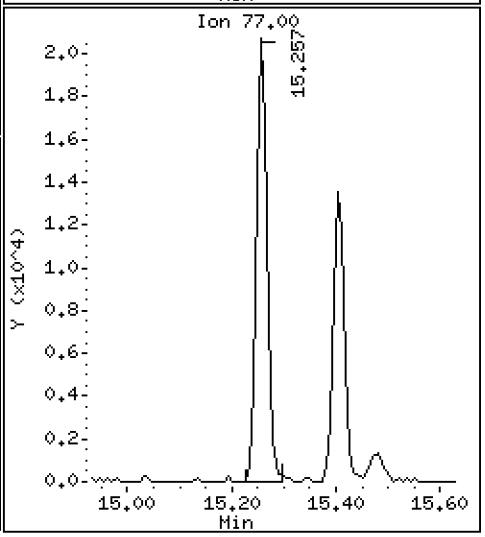


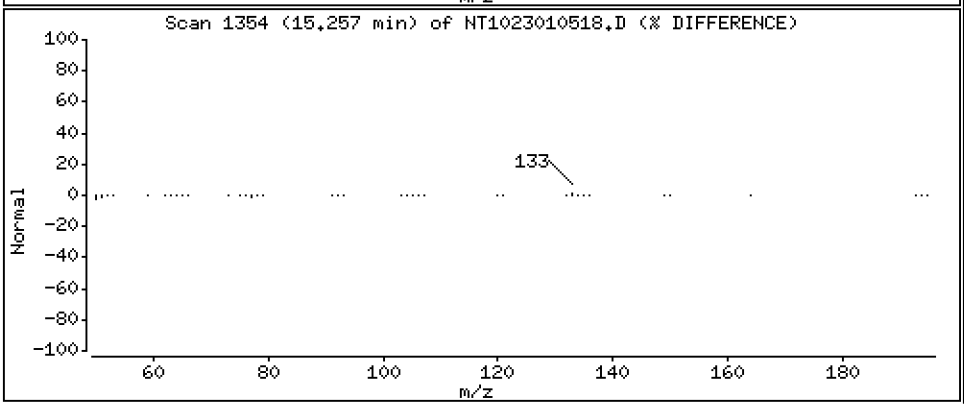












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

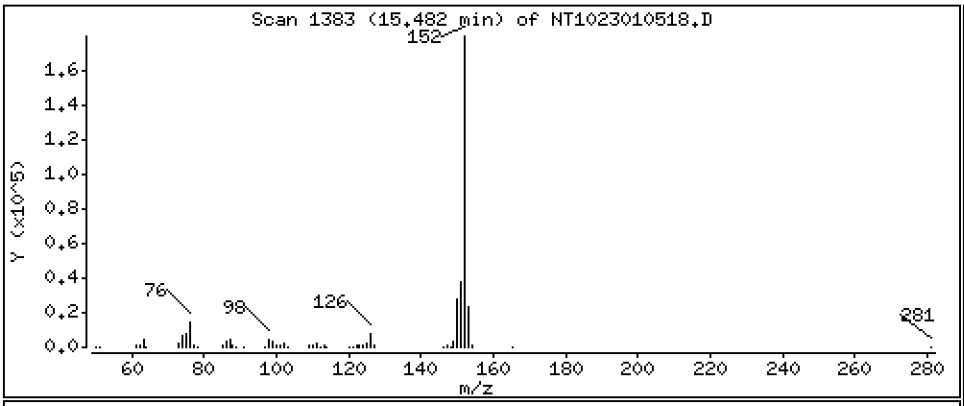
Operator: VTS

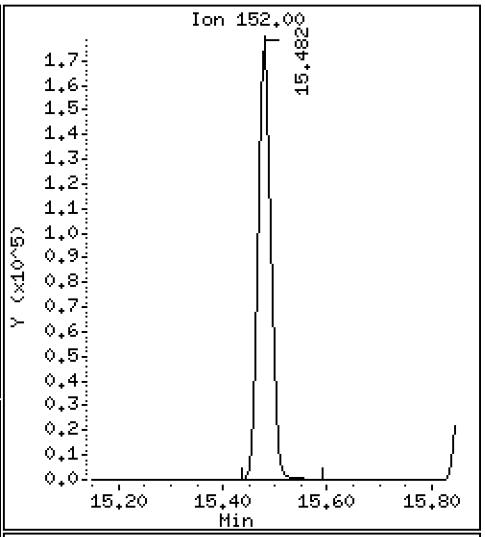
Column phase: ZB-5msi

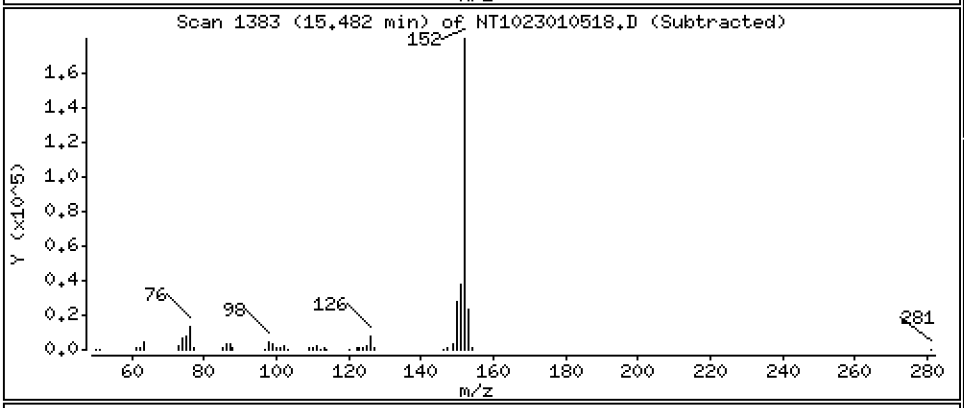
Column diameter: 0.25

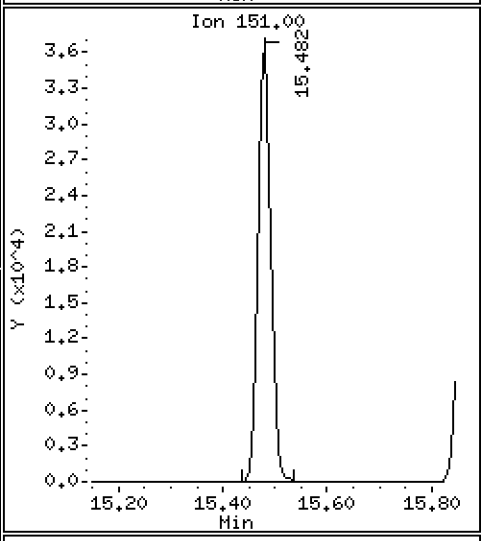
40 Acenaphthylene

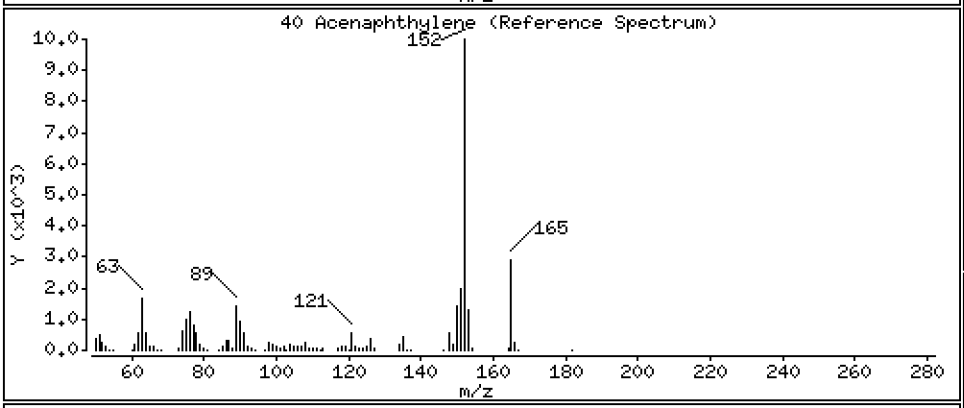
Concentration: 4.871 ug/mL

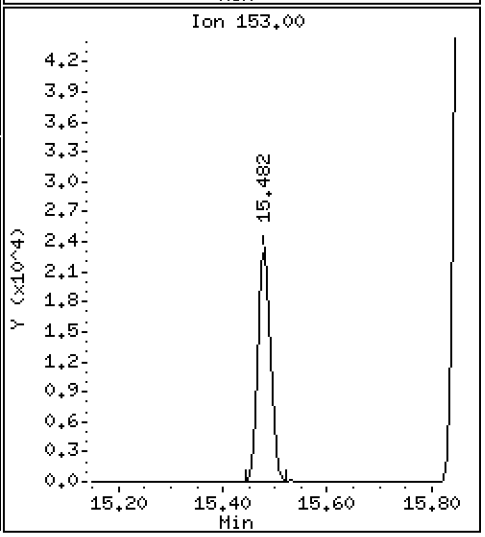


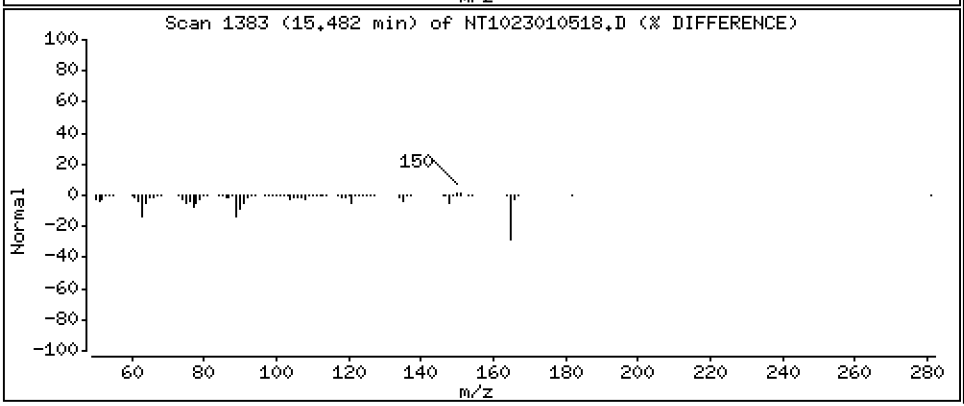












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

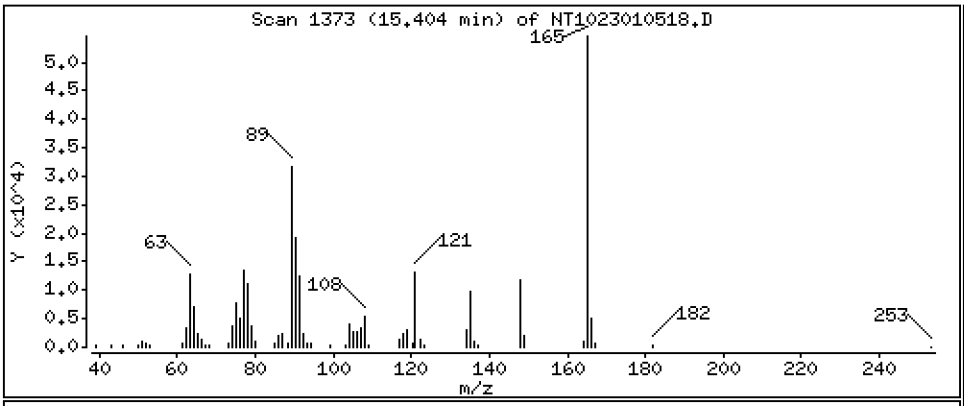
Operator: VTS

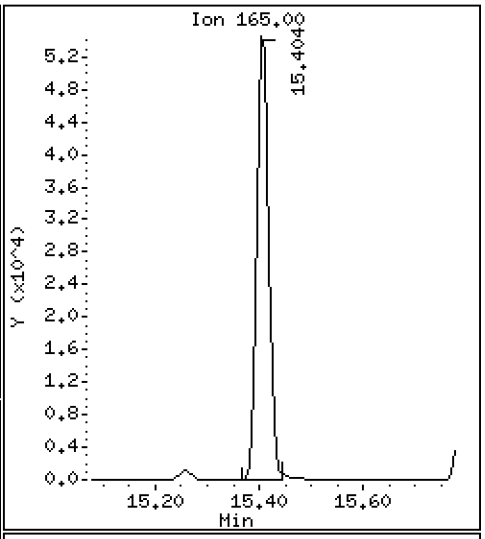
Column phase: ZB-5msi

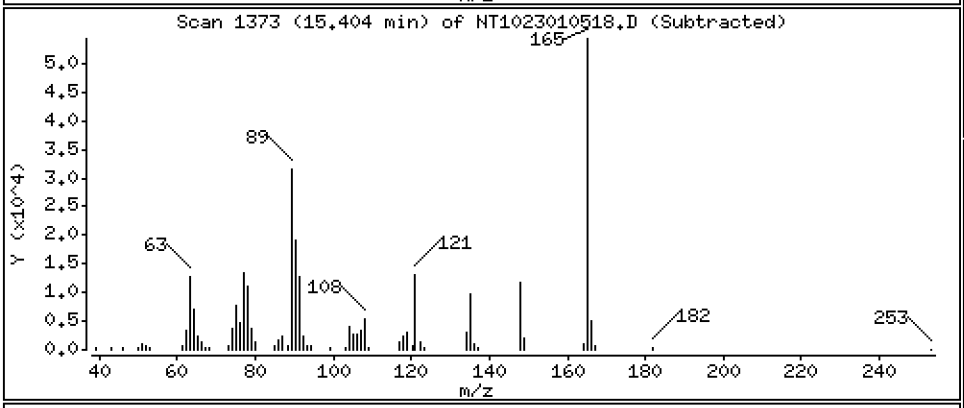
Column diameter: 0.25

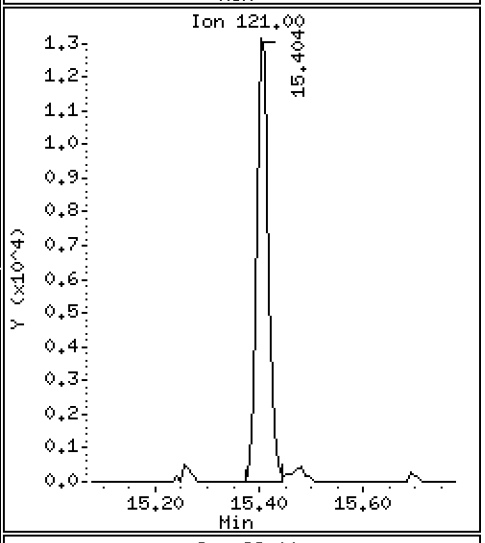
41 2,6-Dinitrotoluene

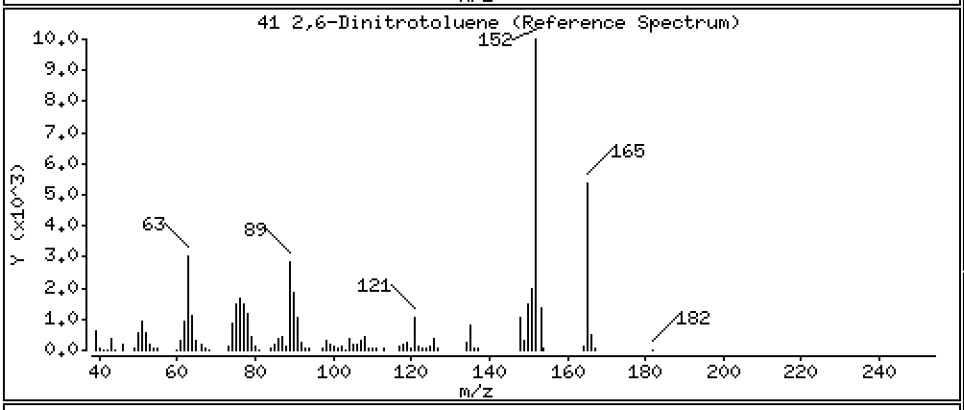
Concentration: 9.873 ug/mL

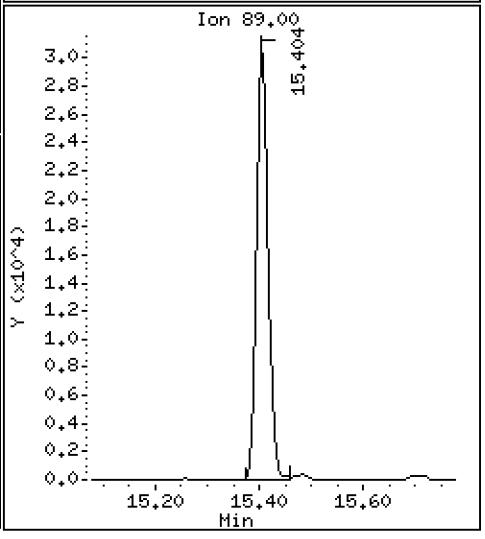


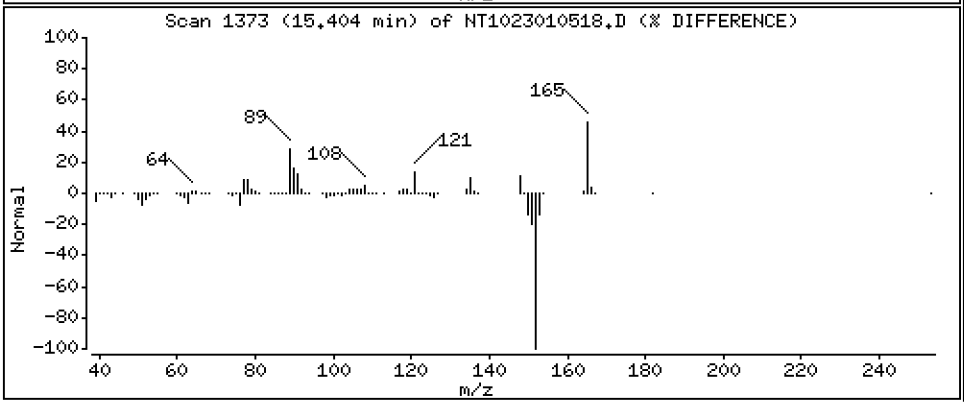












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

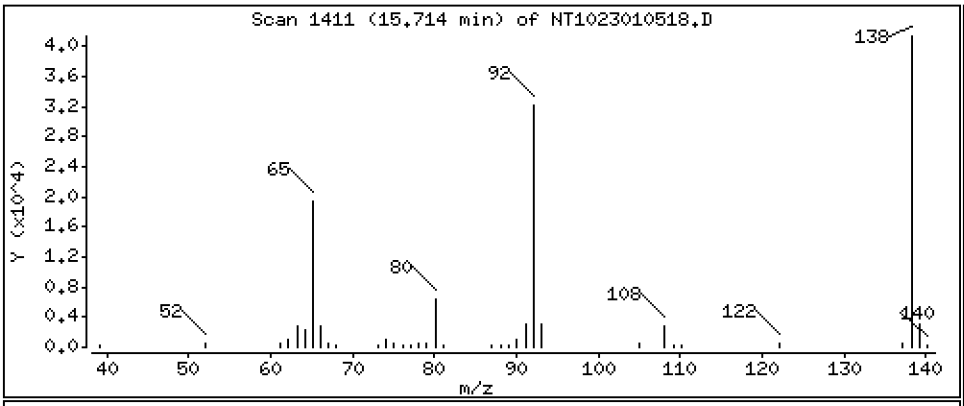
Operator: VTS

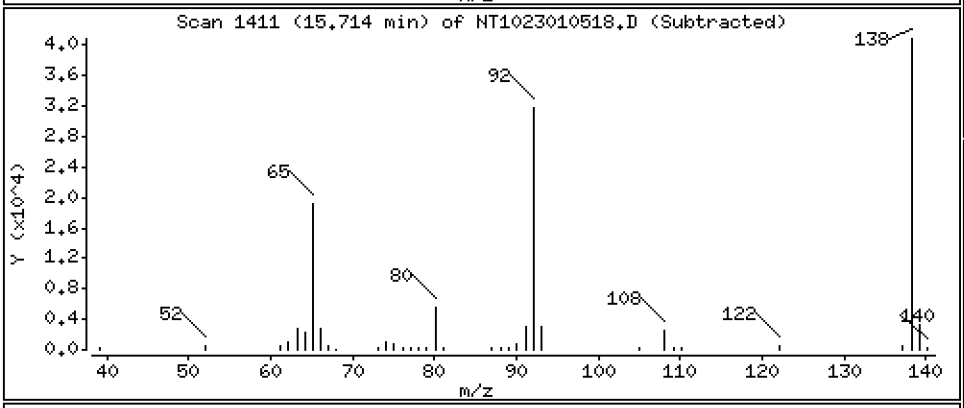
Column phase: ZB-5msi

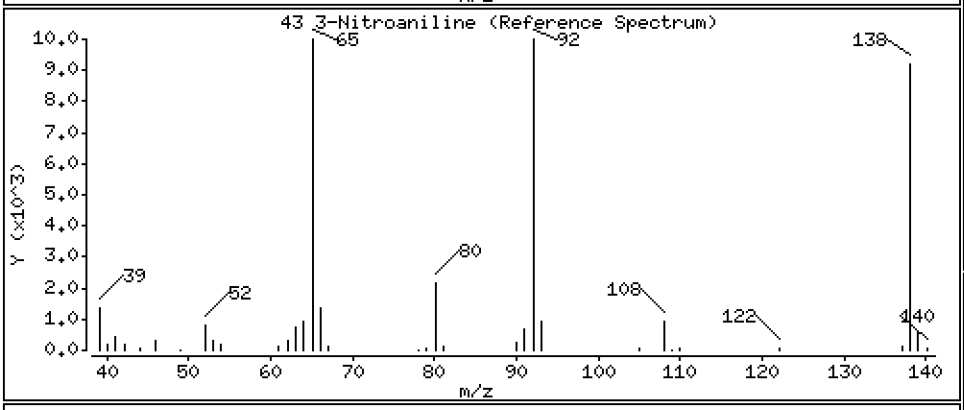
Column diameter: 0.25

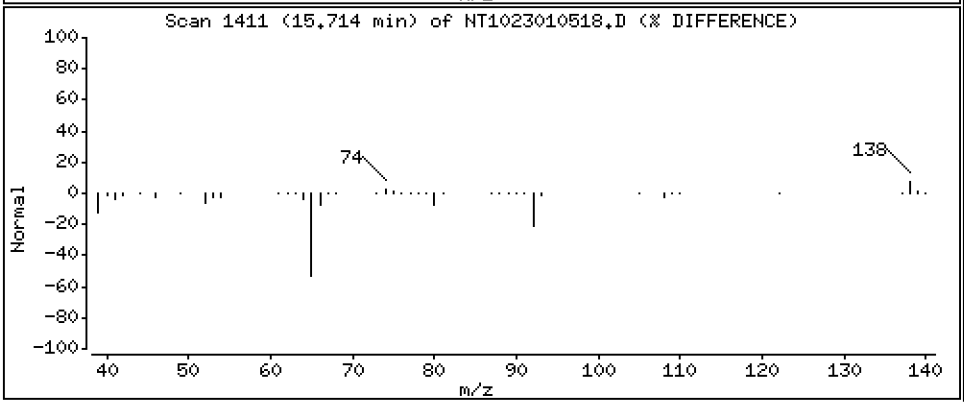
43 3-Nitroaniline

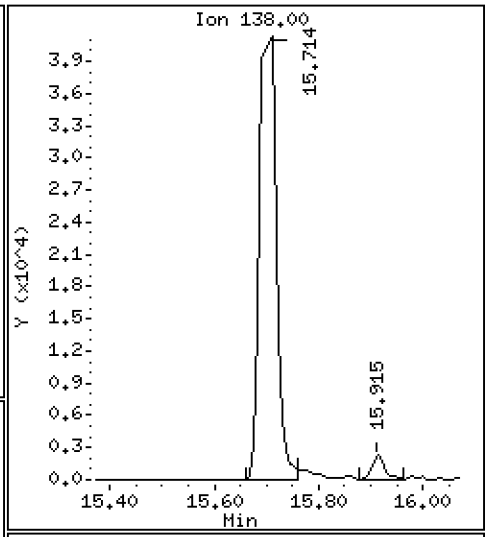
Concentration: 10.35 ug/mL

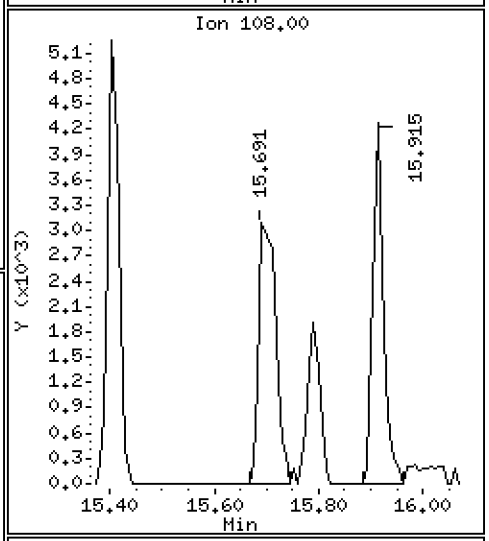


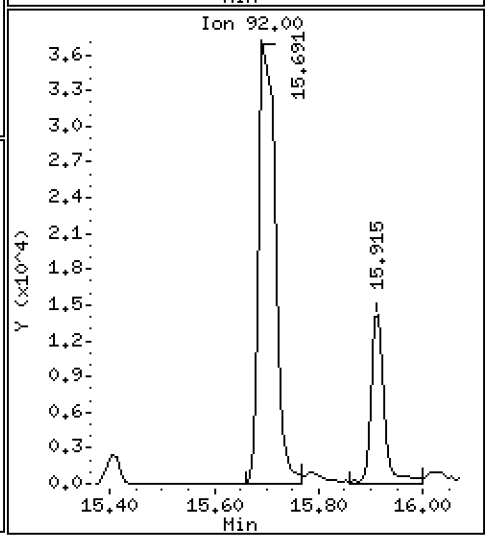












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

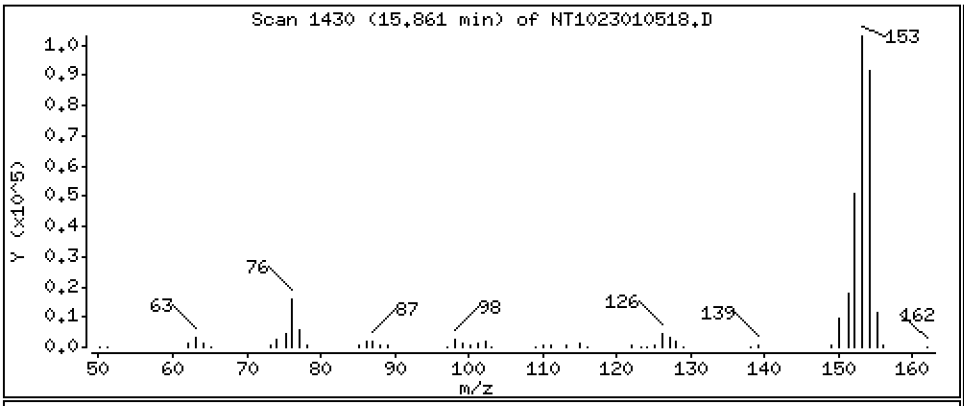
Operator: VTS

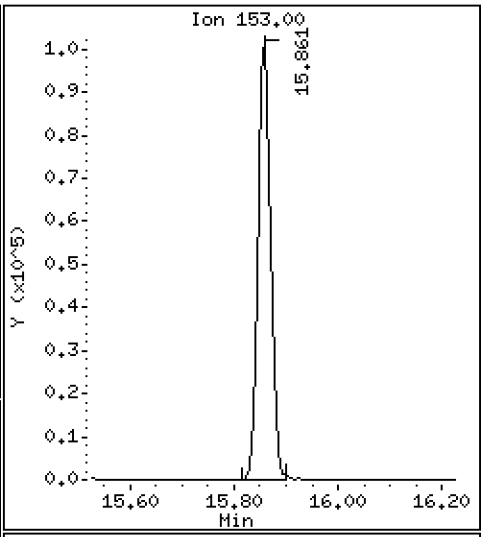
Column phase: ZB-5msi

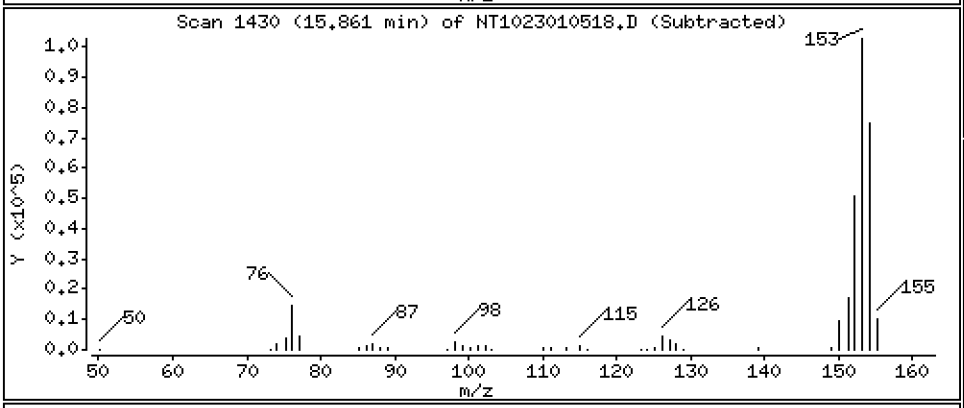
Column diameter: 0.25

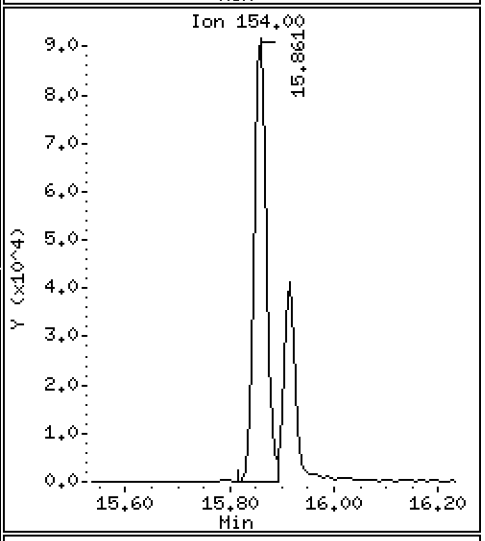
44 Acenaphthene

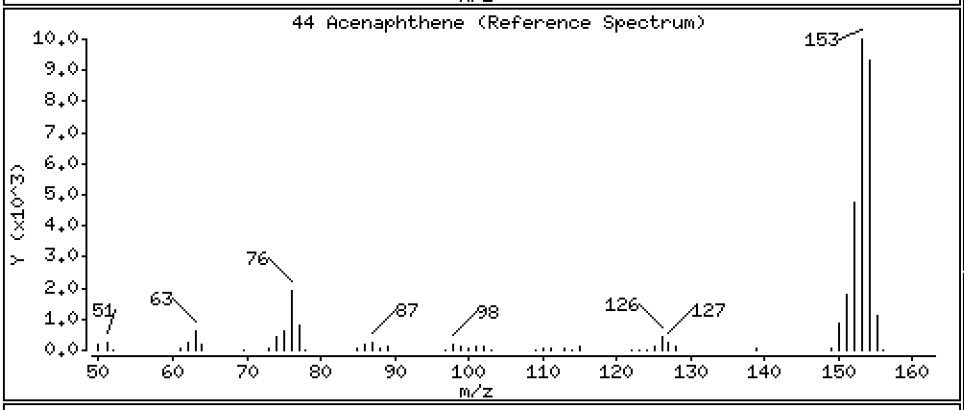
Concentration: 4.923 ug/mL

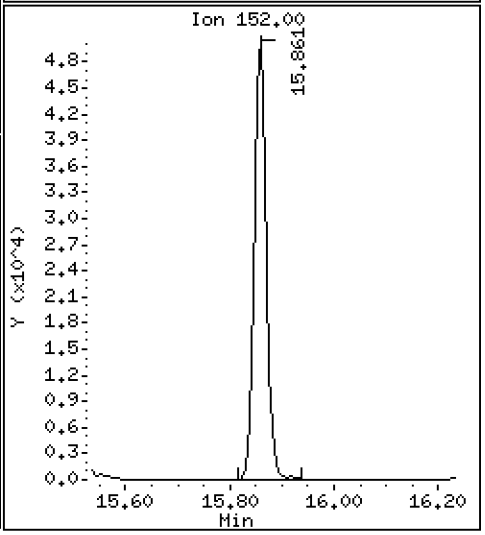


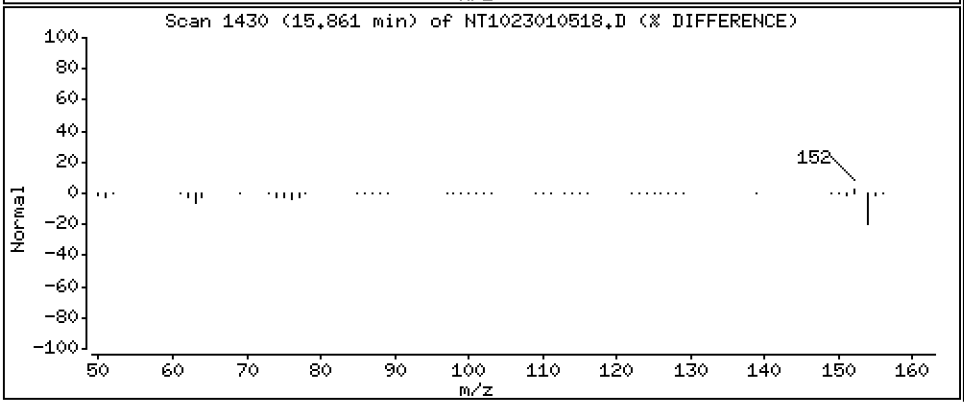












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

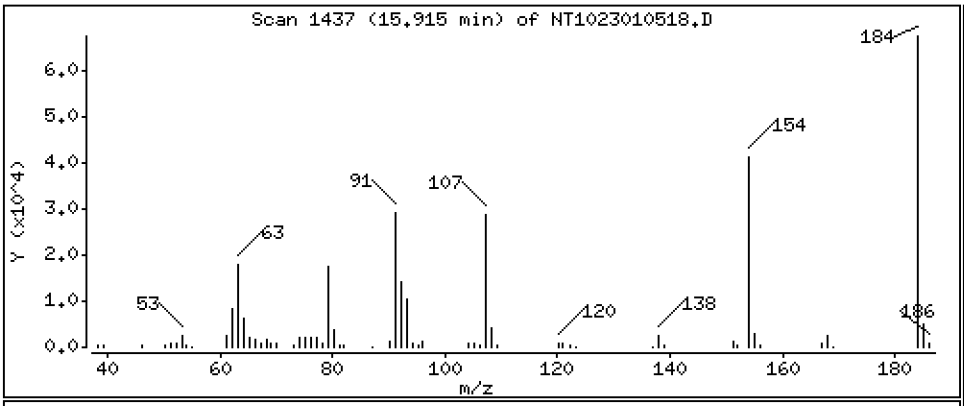
Operator: VTS

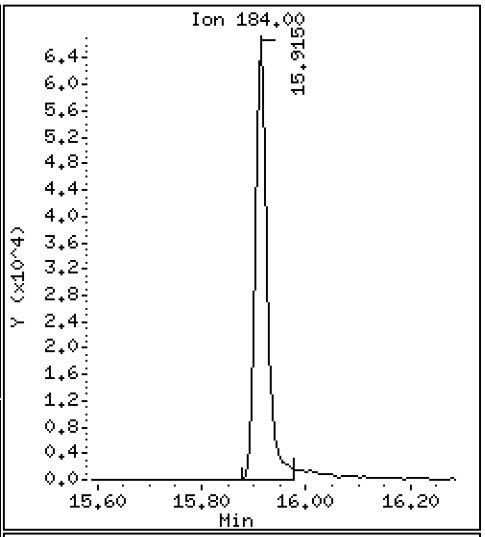
Column phase: ZB-5msi

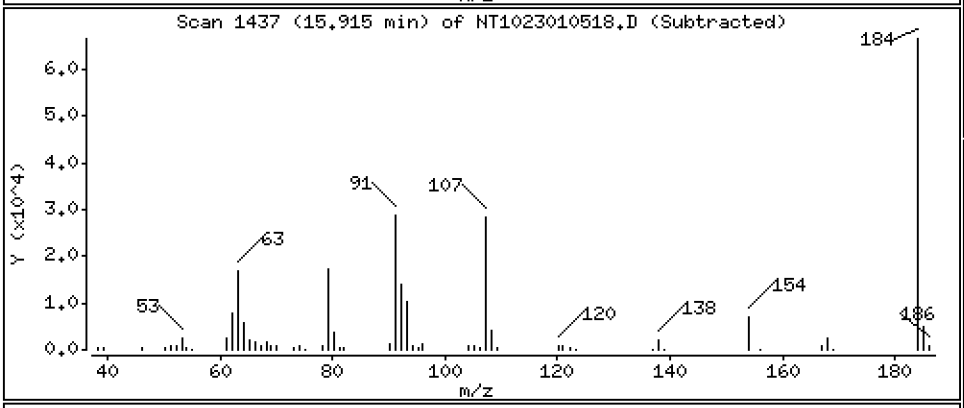
Column diameter: 0.25

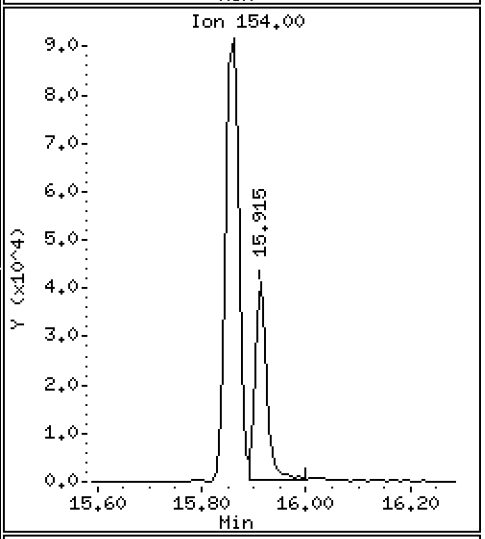
45 2,4-Dinitrophenol

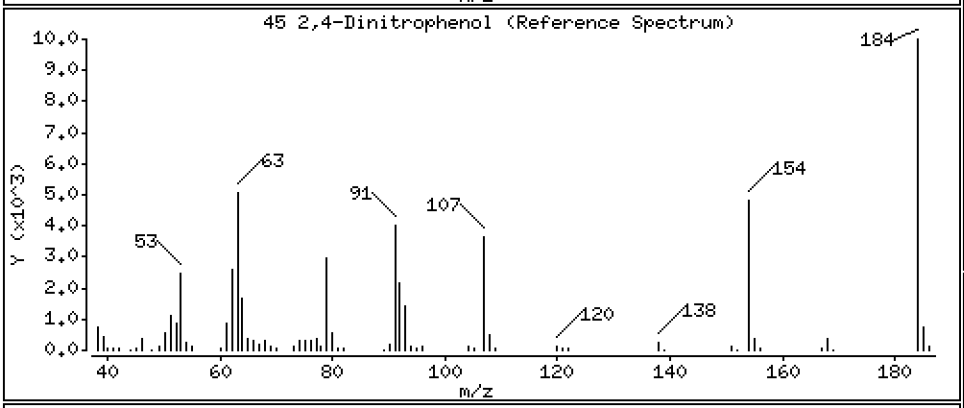
Concentration: 17.64 ug/mL

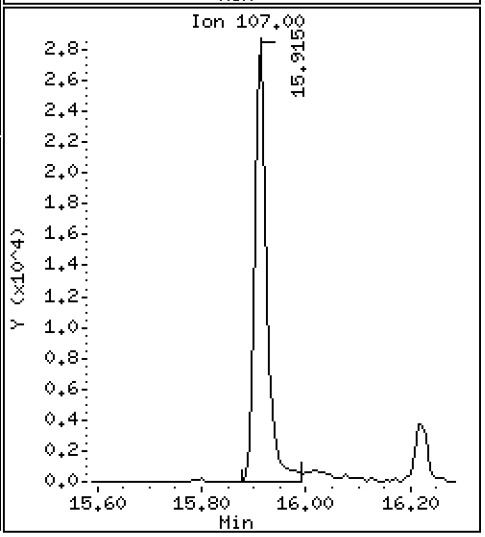


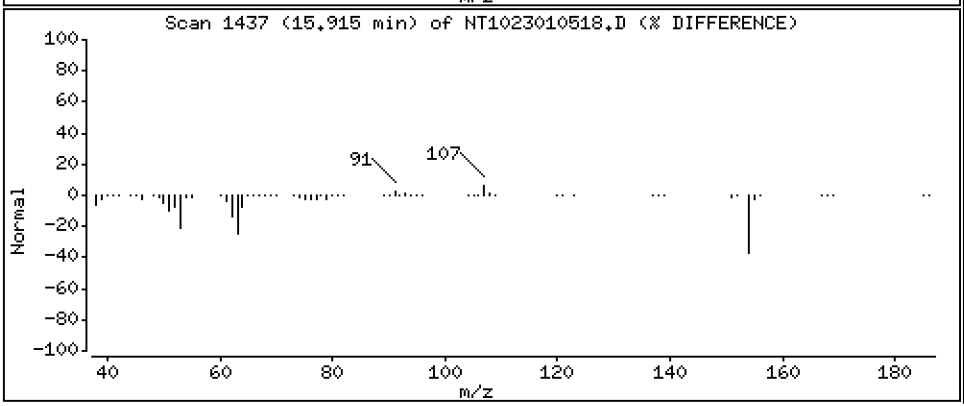












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

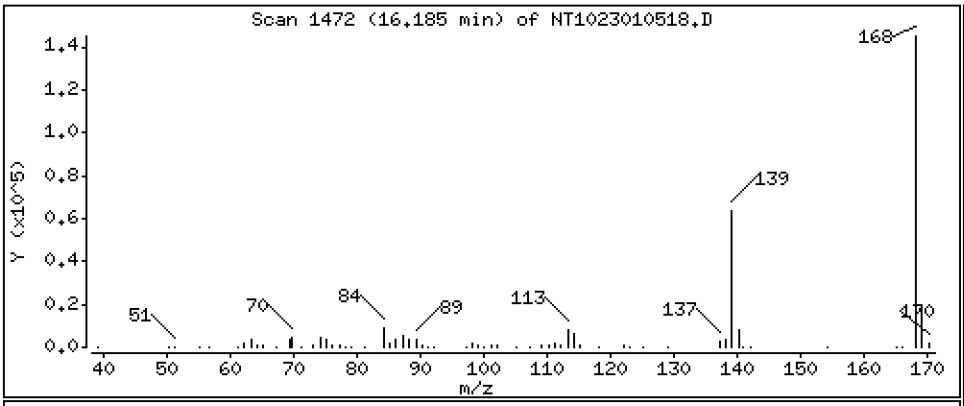
Operator: VTS

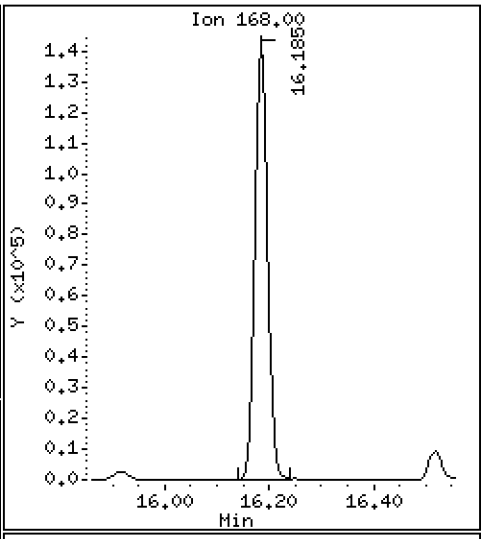
Column phase: ZB-5msi

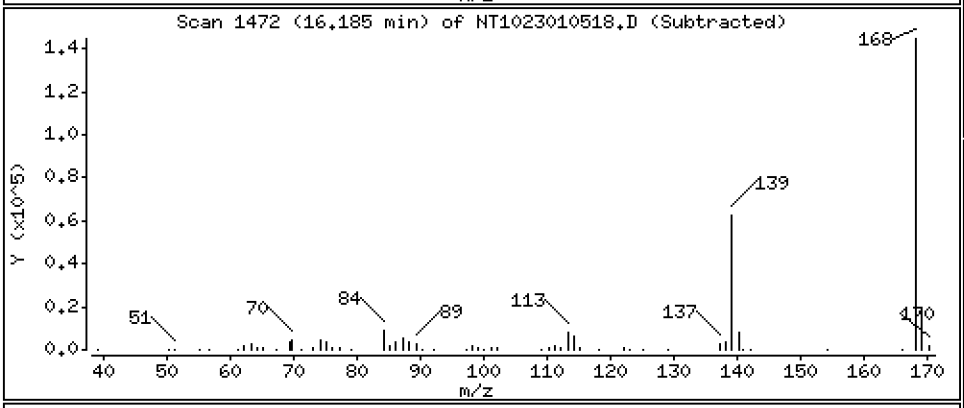
Column diameter: 0.25

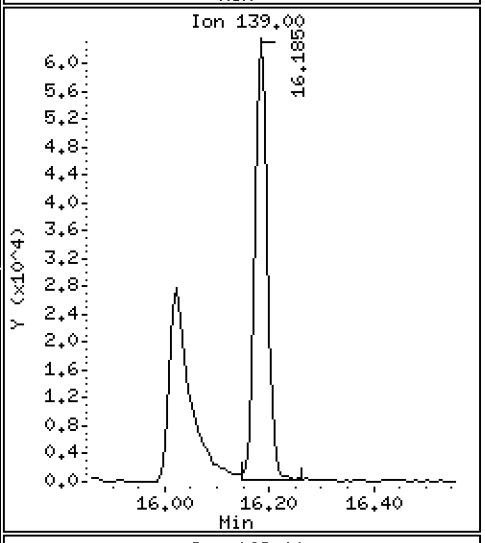
46 Dibenzofuran

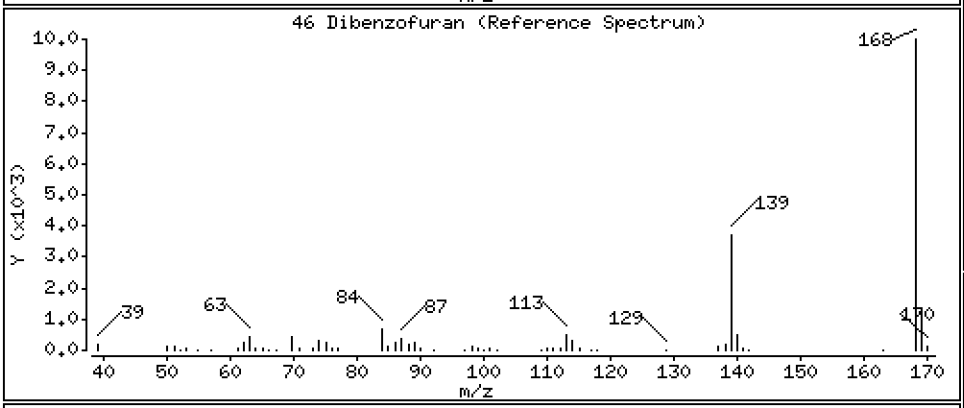
Concentration: 4.719 ug/mL

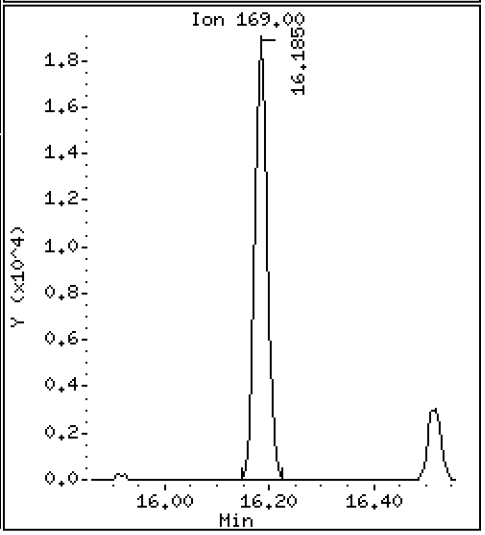


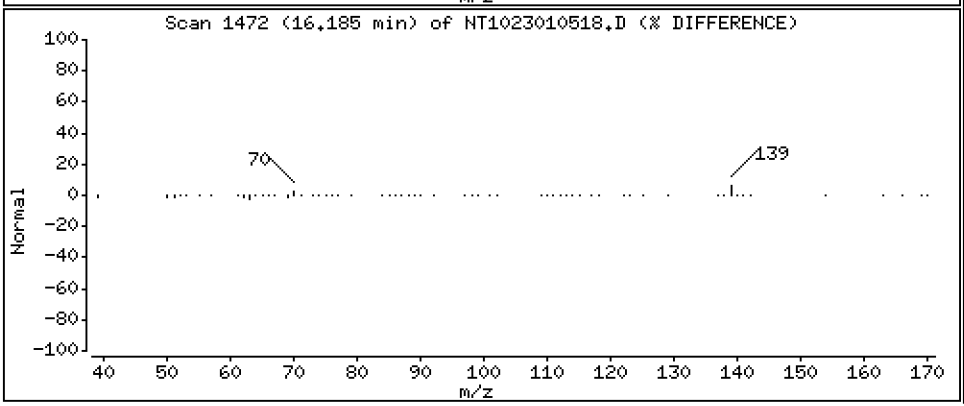












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

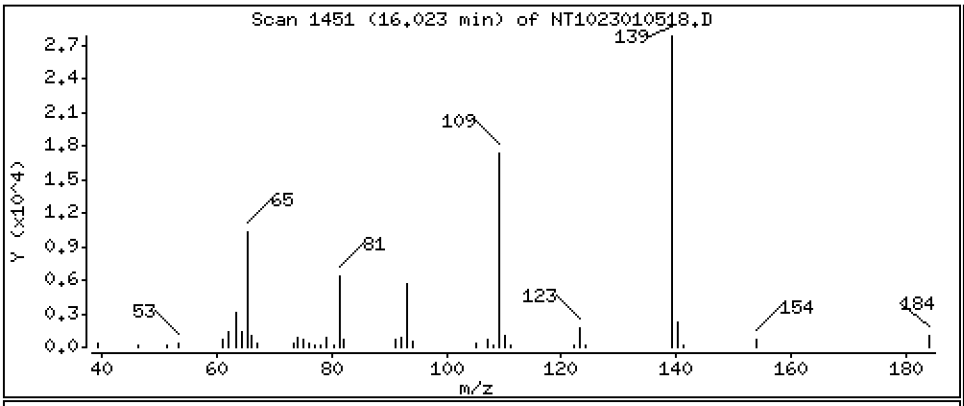
Operator: VTS

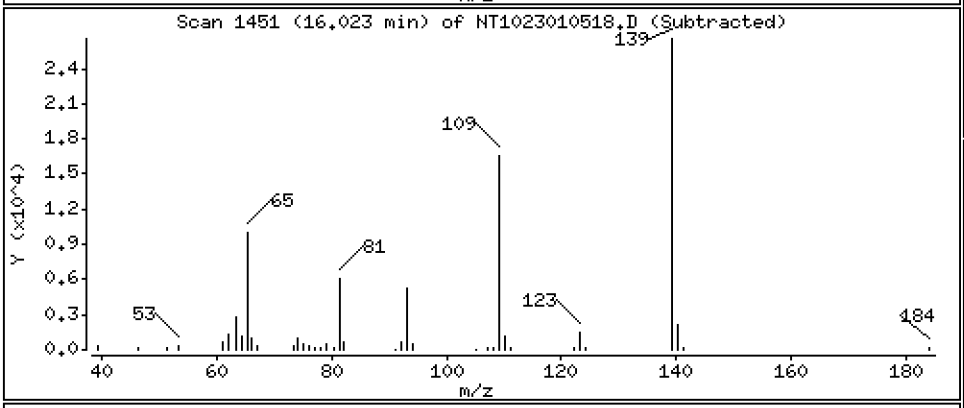
Column phase: ZB-5msi

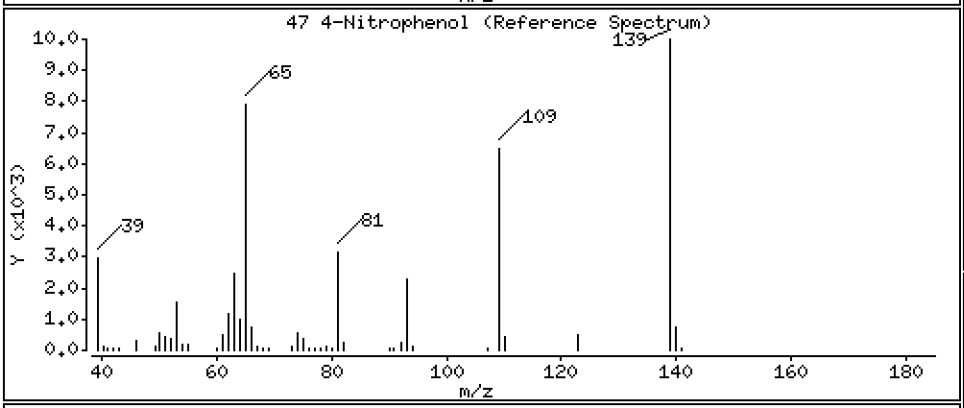
Column diameter: 0.25

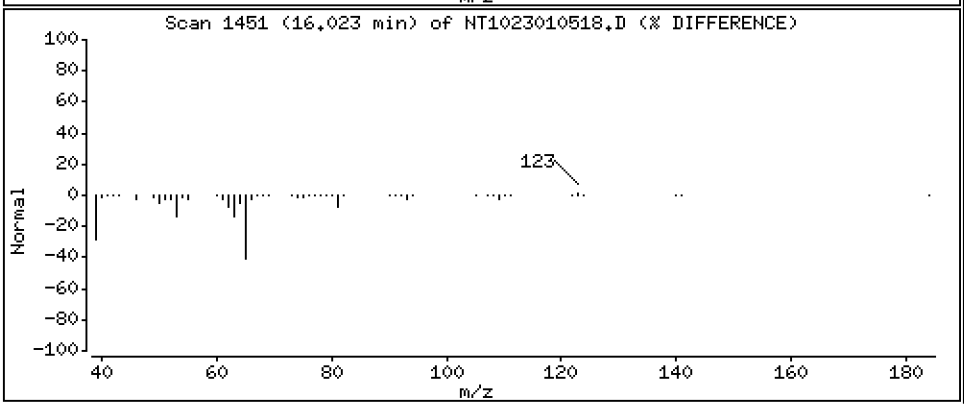
47 4-Nitrophenol

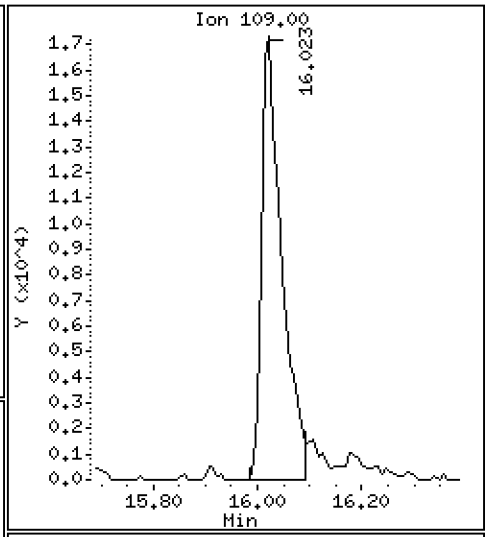
Concentration: 9.453 ug/mL

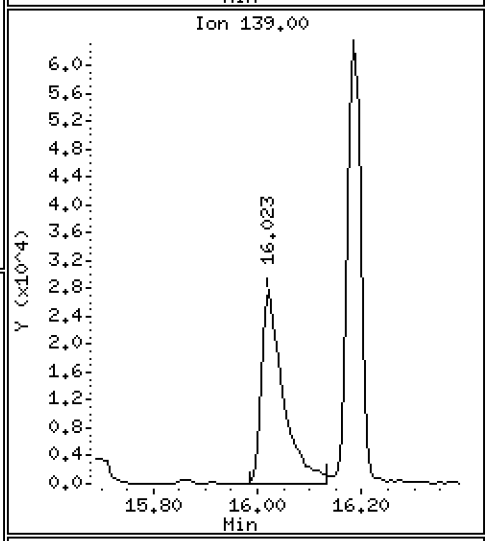


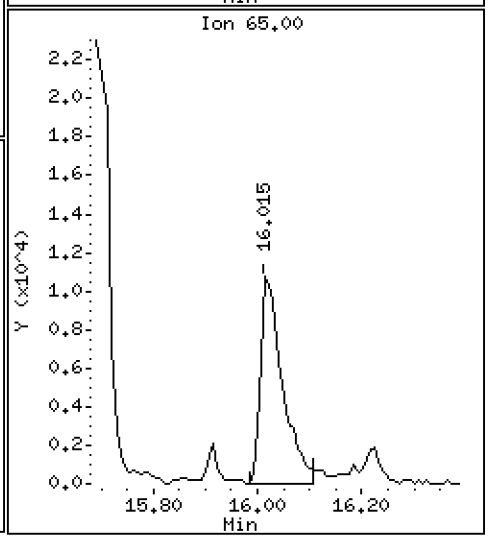












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

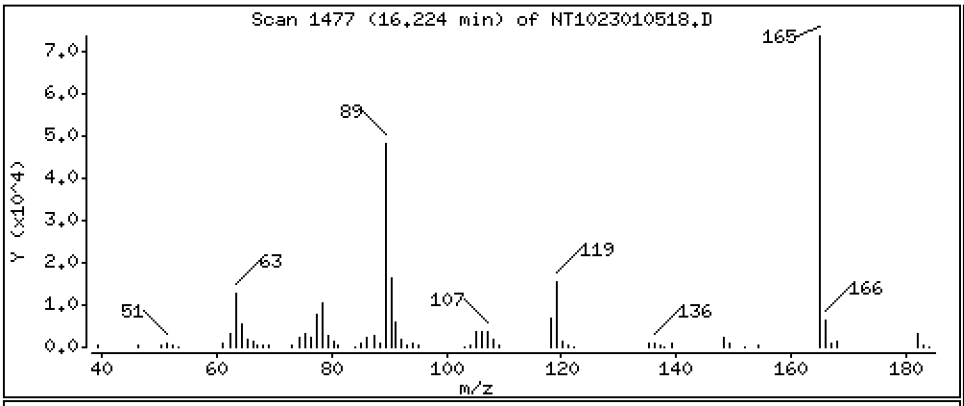
Operator: VTS

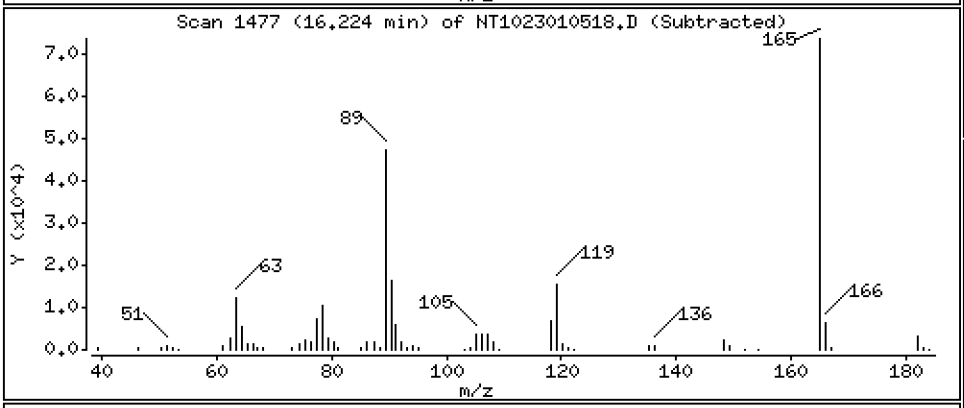
Column phase: ZB-5msi

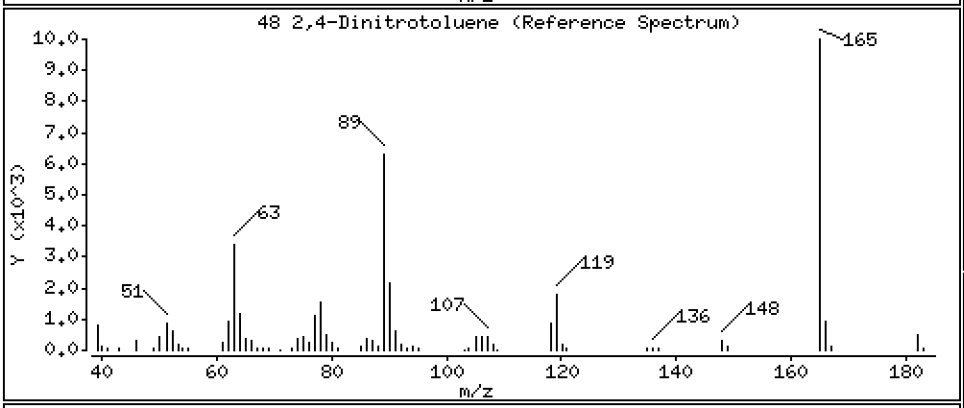
Column diameter: 0.25

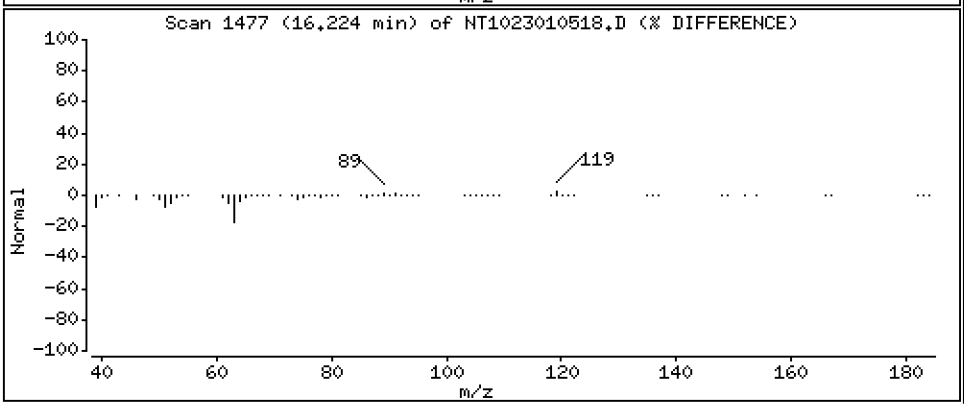
48 2,4-Dinitrotoluene

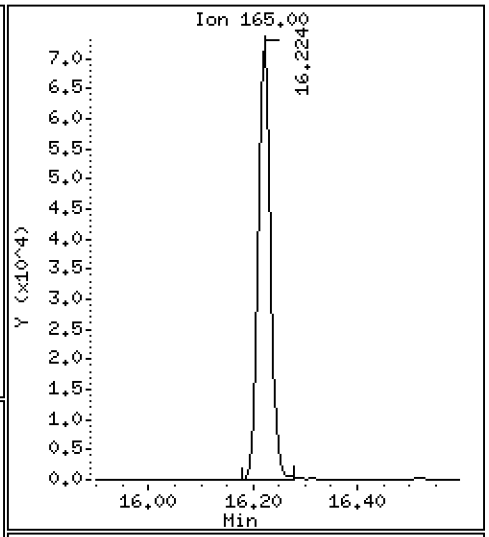
Concentration: 10.24 ug/mL

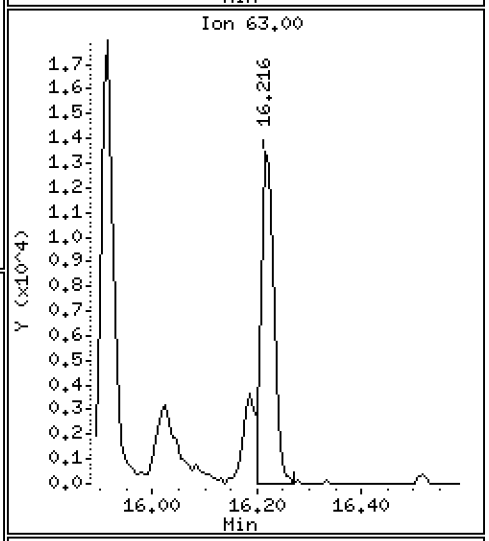


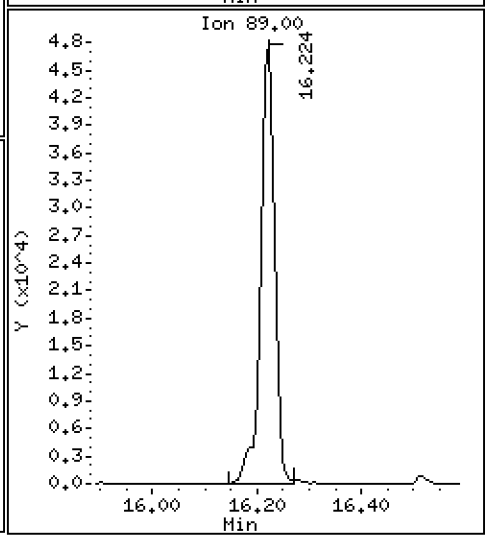












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

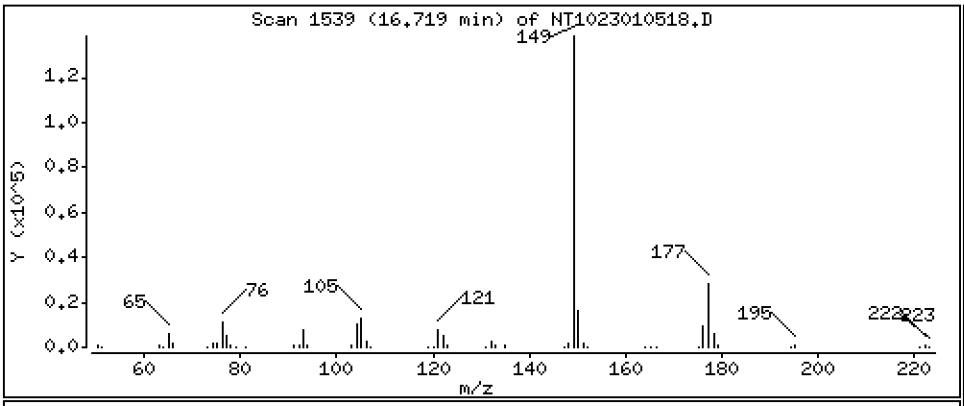
Operator: VTS

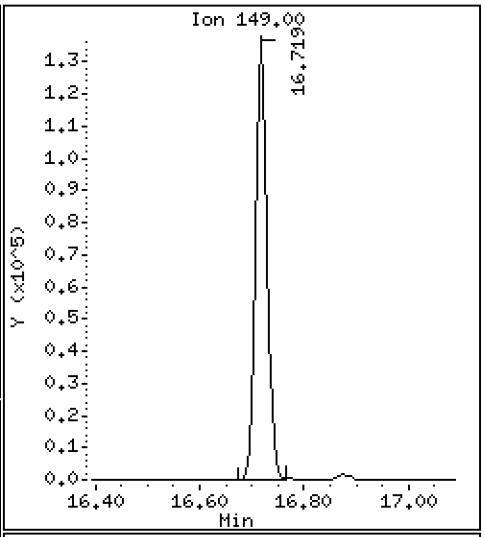
Column phase: ZB-5msi

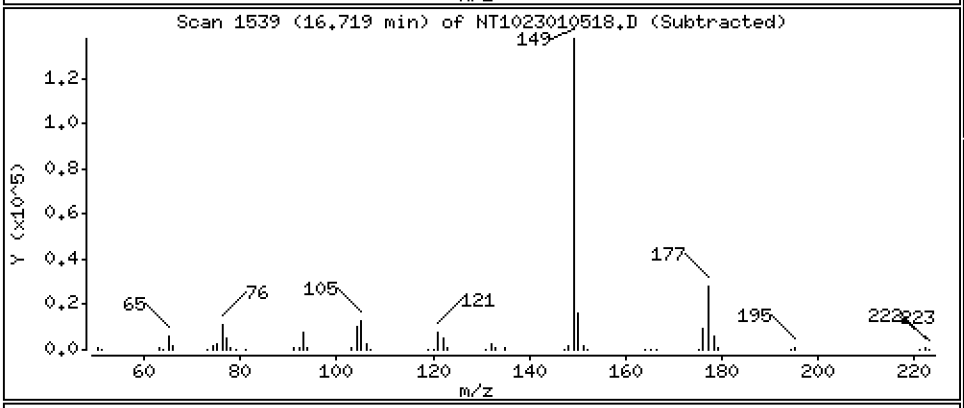
Column diameter: 0.25

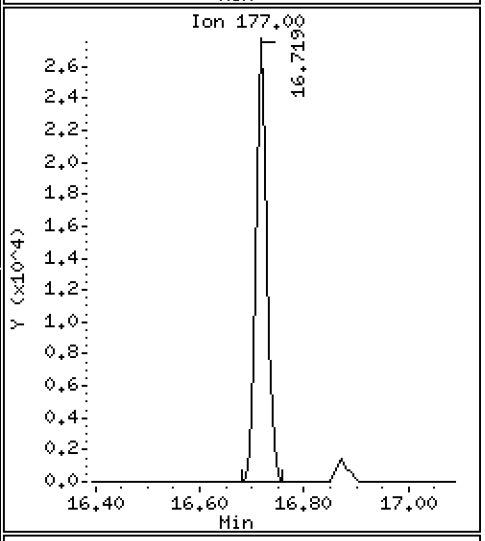
50 Diethylphthalate

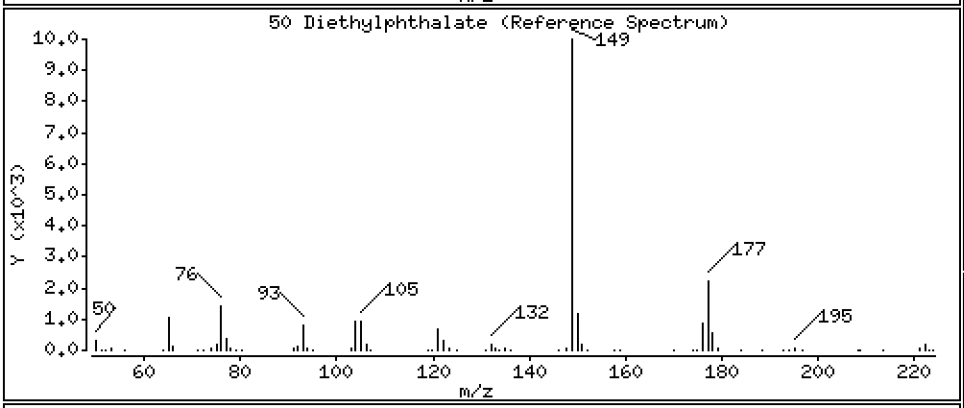
Concentration: 5.110 ug/mL

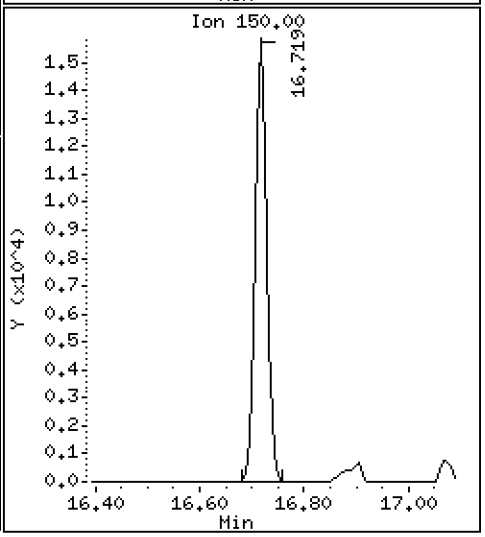


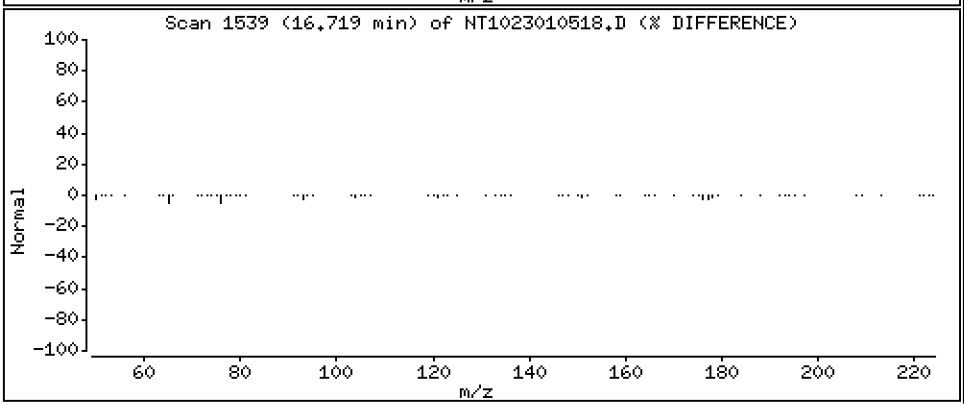












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

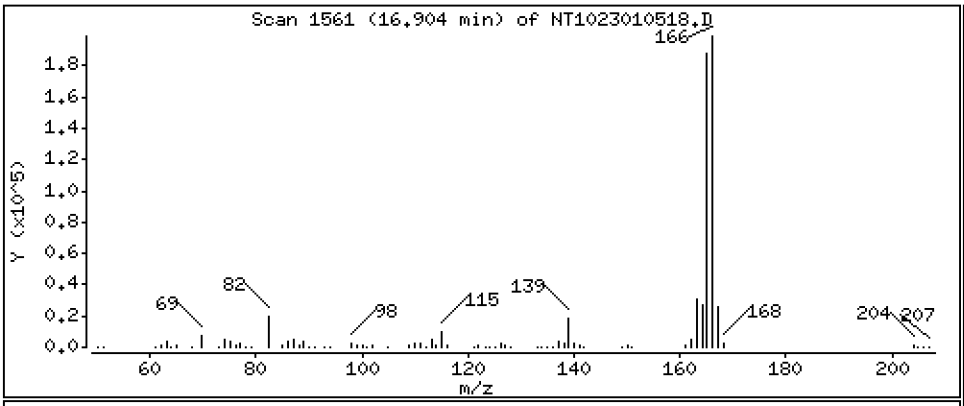
Operator: VTS

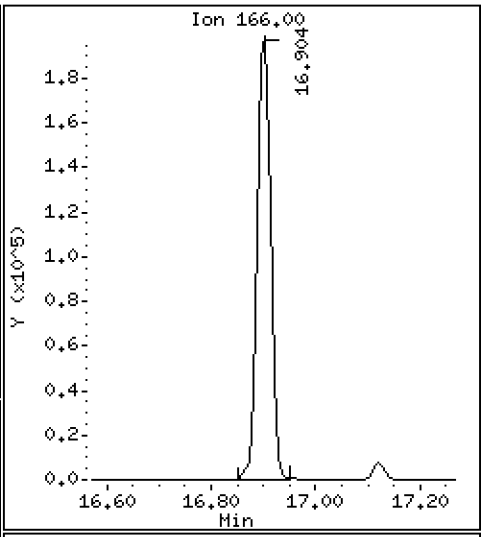
Column phase: ZB-5msi

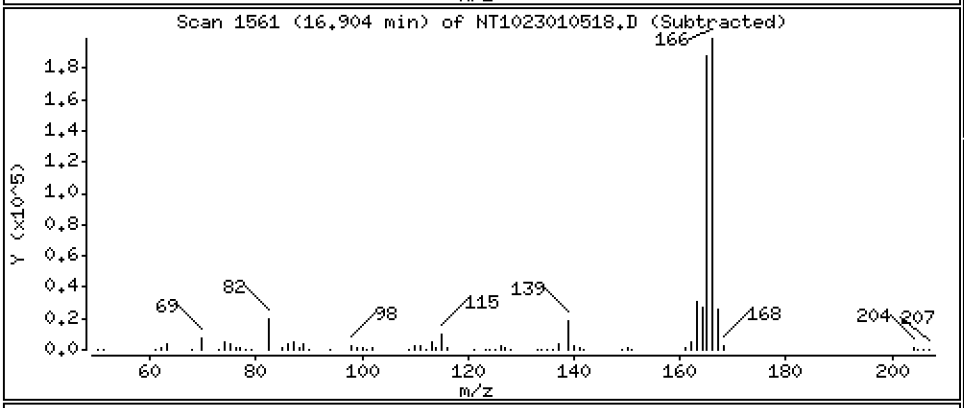
Column diameter: 0.25

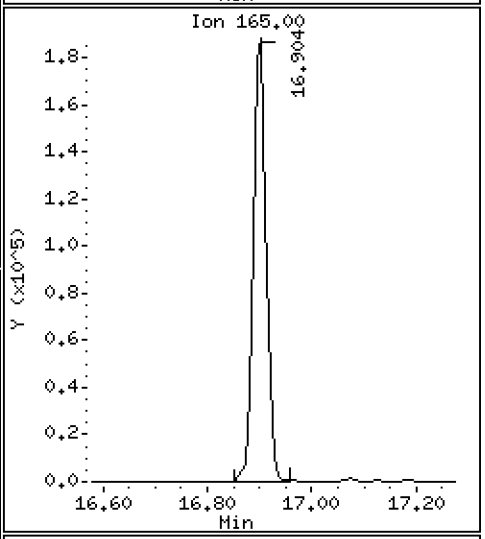
49 Fluorene

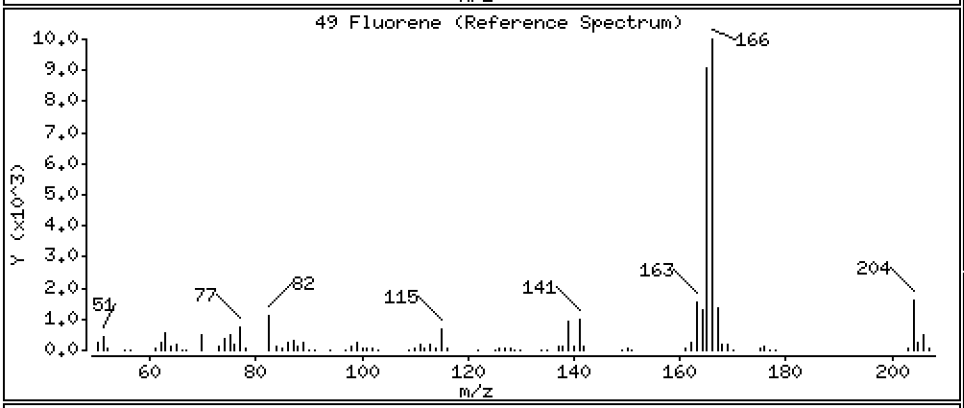
Concentration: 5.211 ug/mL

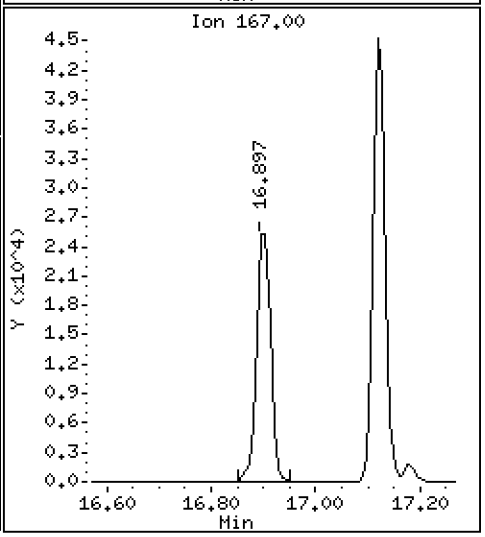


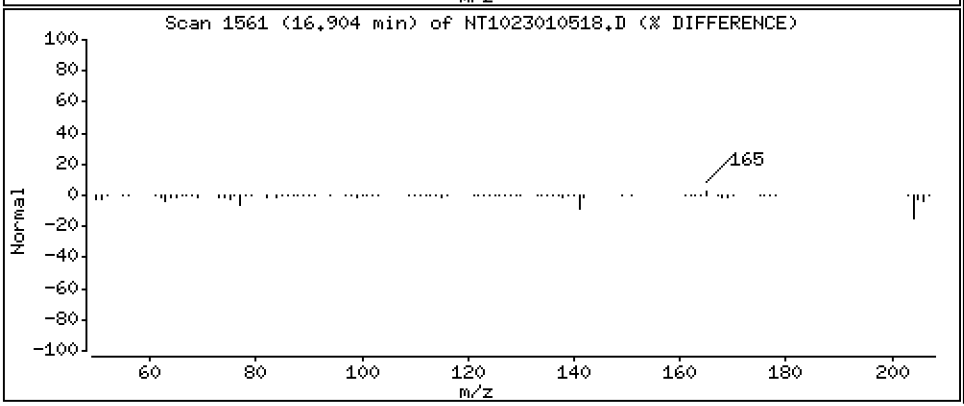












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

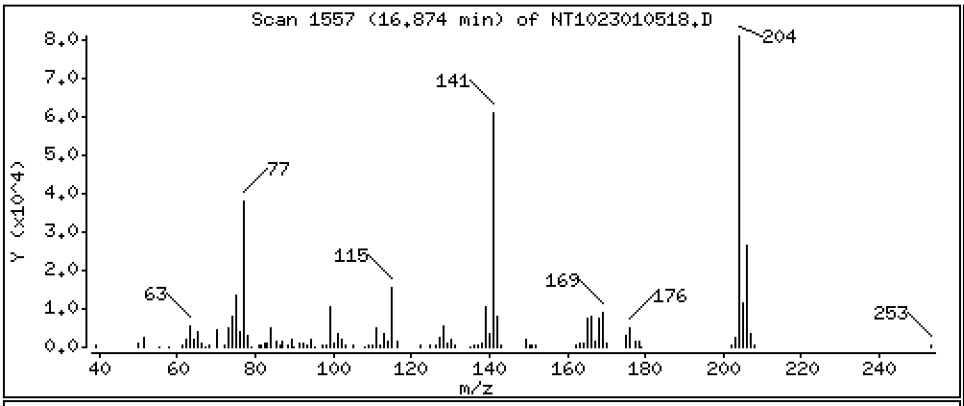
Operator: VTS

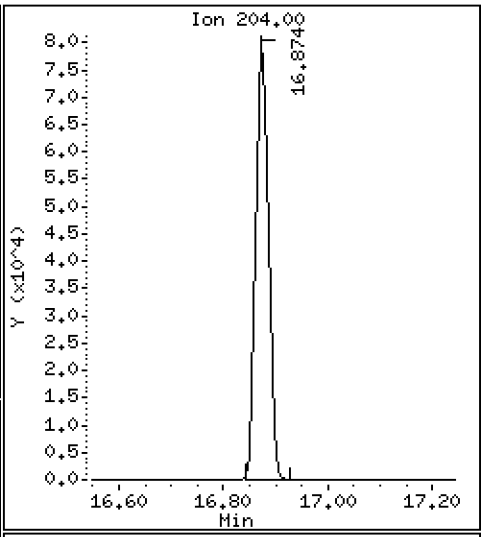
Column phase: ZB-5msi

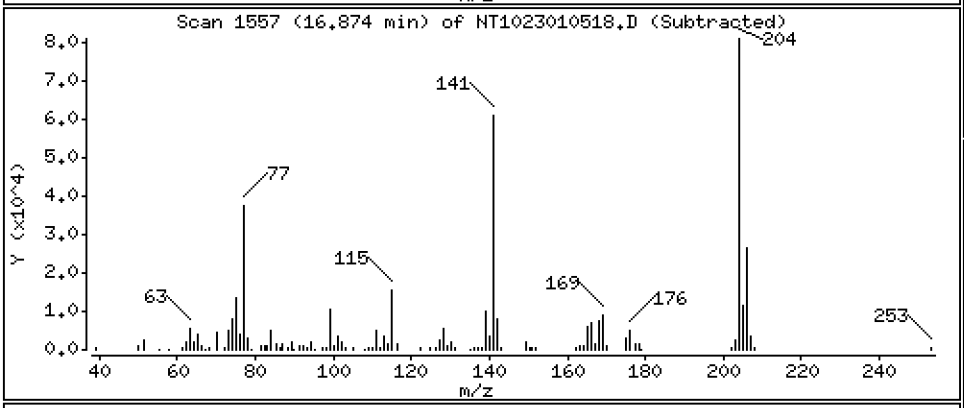
Column diameter: 0.25

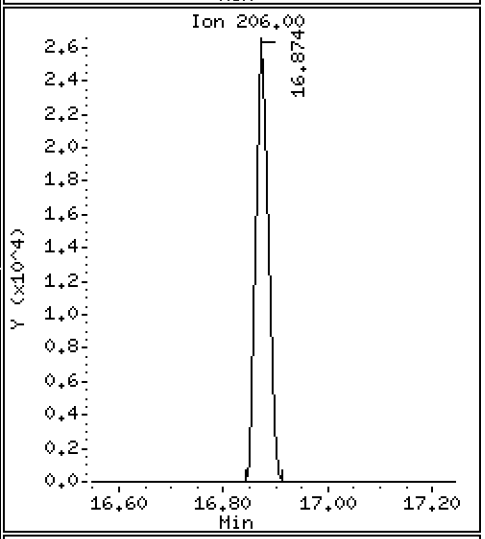
51 4-Chlorophenyl-phenylether

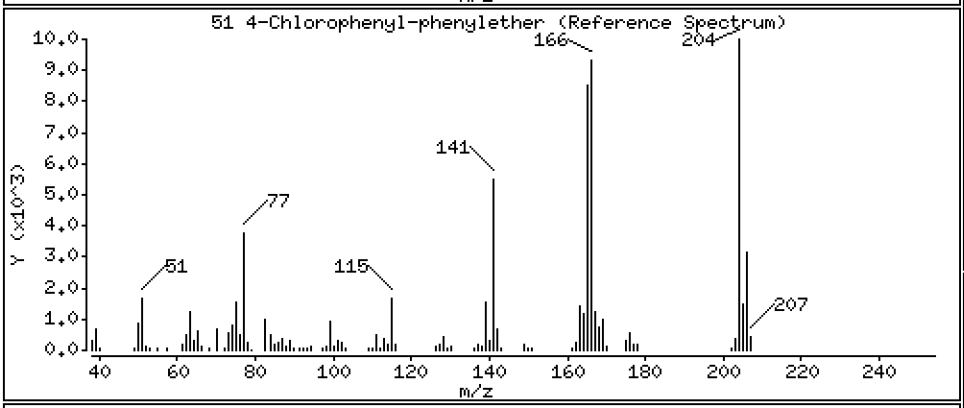
Concentration: 4.586 ug/mL

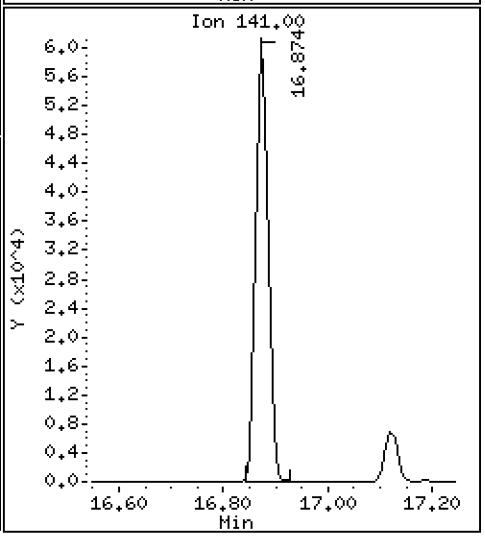


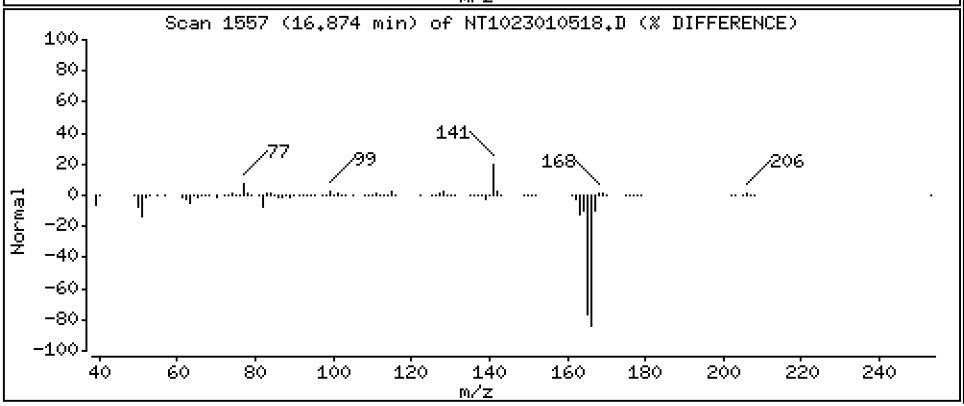












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

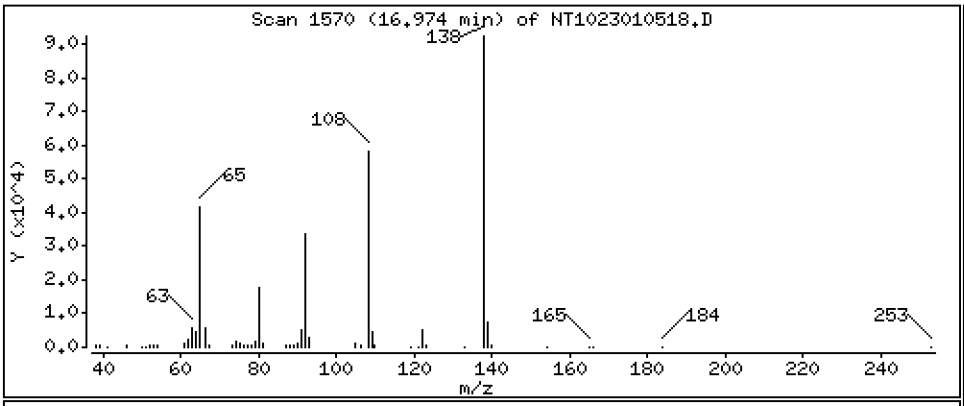
Operator: VTS

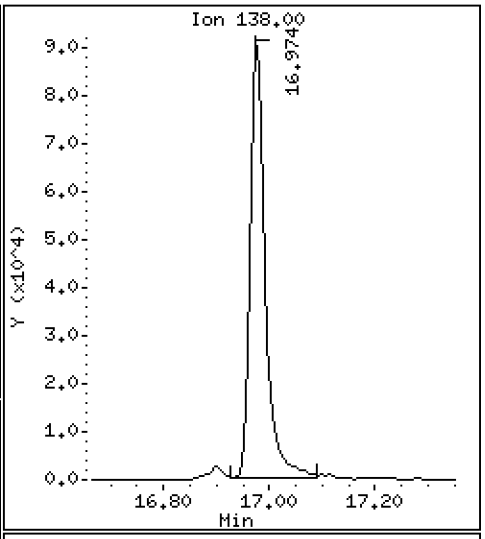
Column phase: ZB-5msi

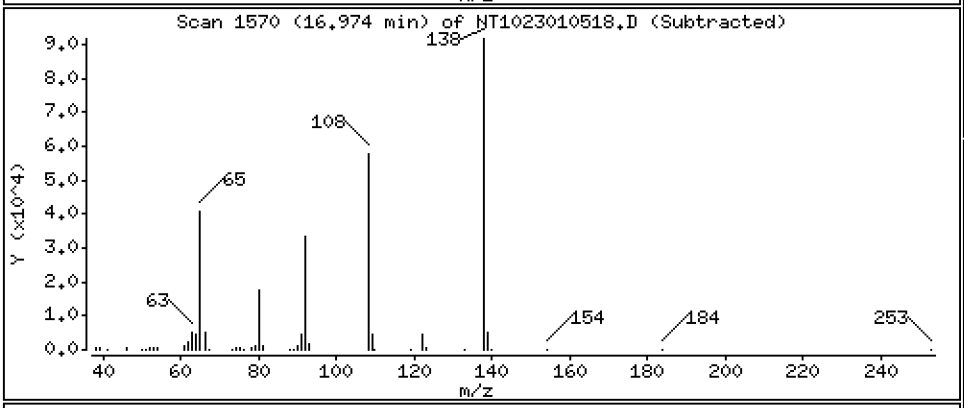
Column diameter: 0.25

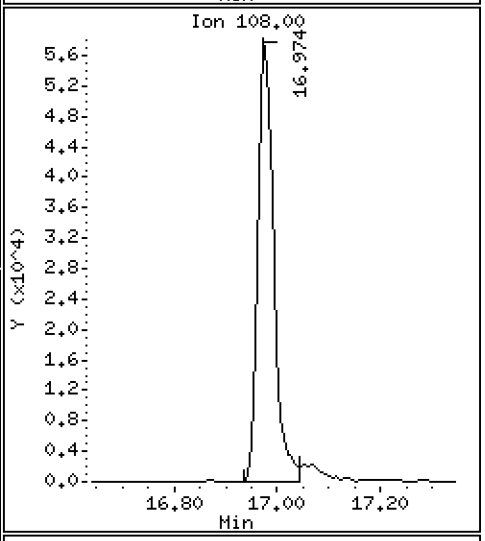
52 4-Nitroaniline

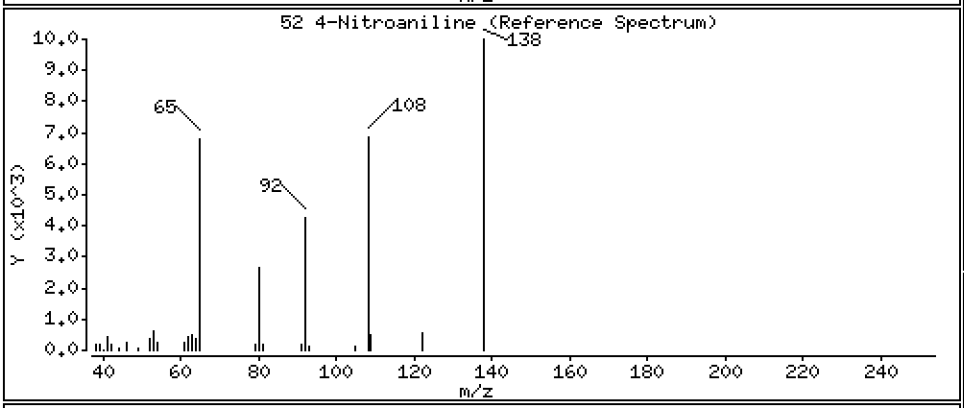
Concentration: 10.70 ug/mL

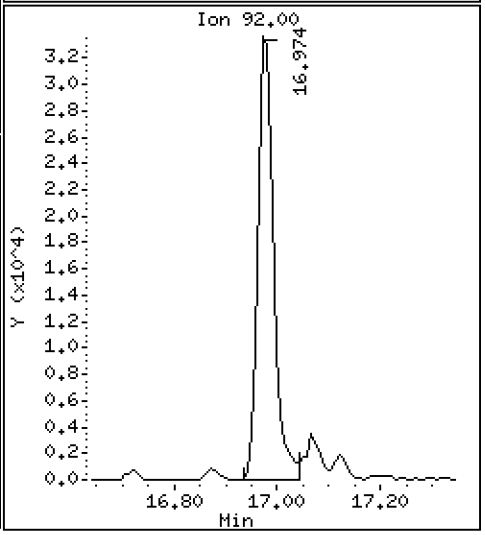


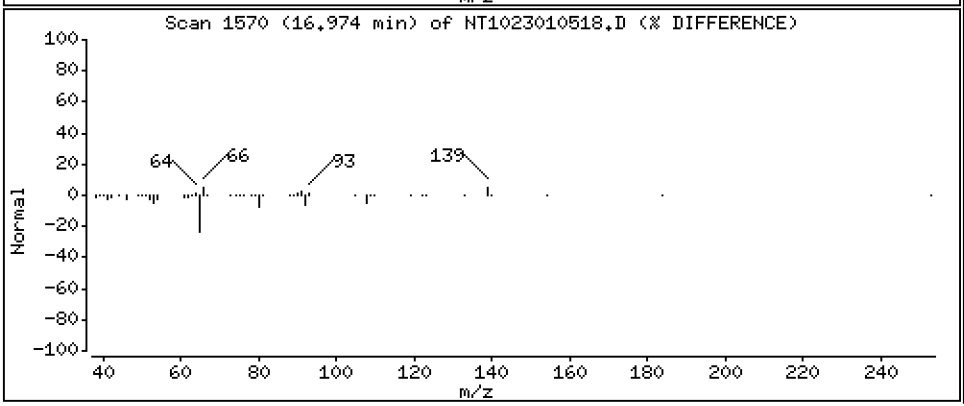












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

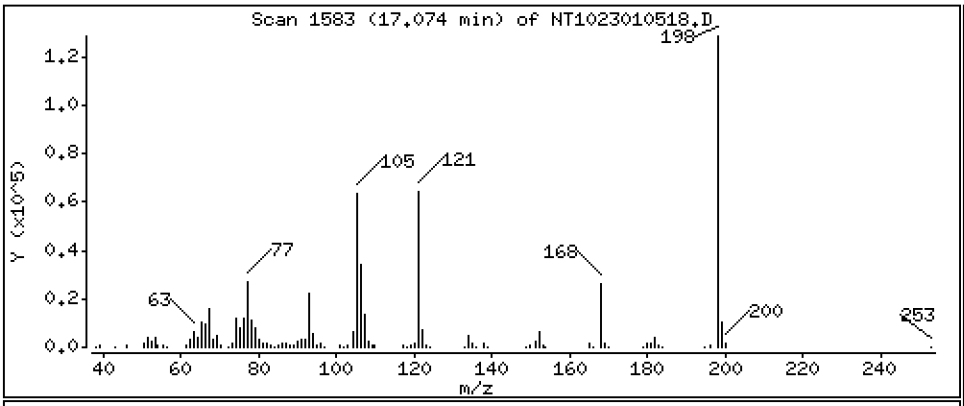
Operator: VTS

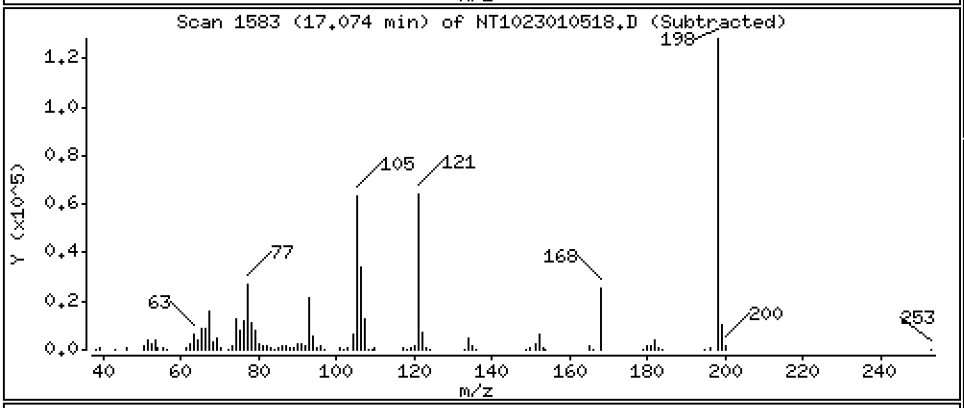
Column phase: ZB-5msi

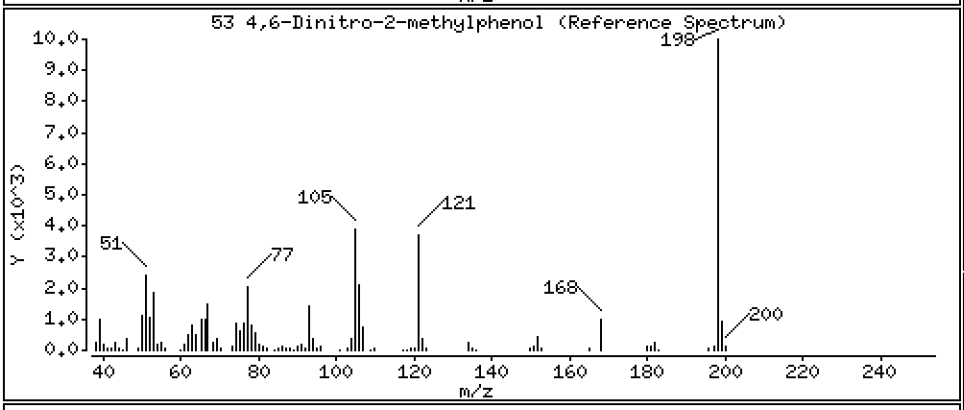
Column diameter: 0.25

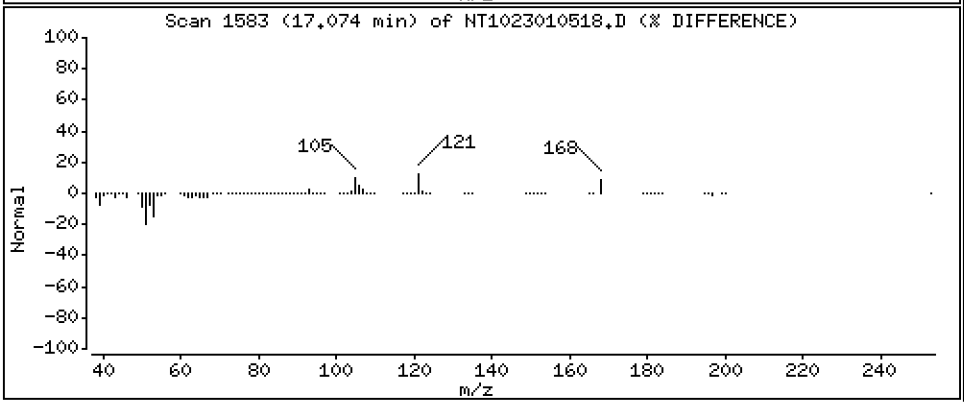
53 4,6-Dinitro-2-methylphenol

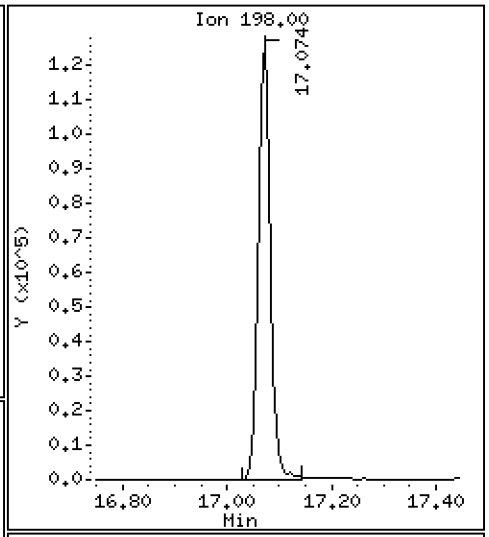
Concentration: 20.93 ug/mL

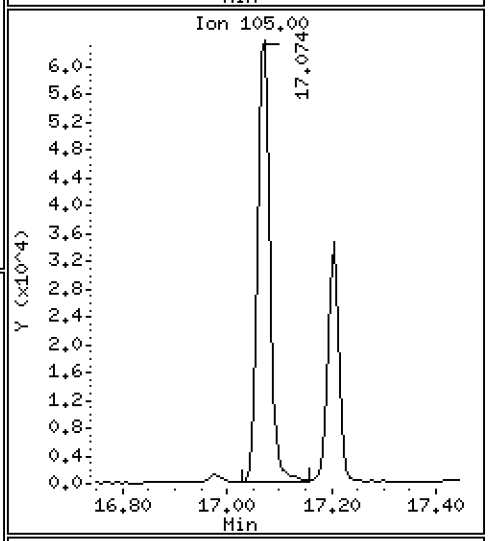


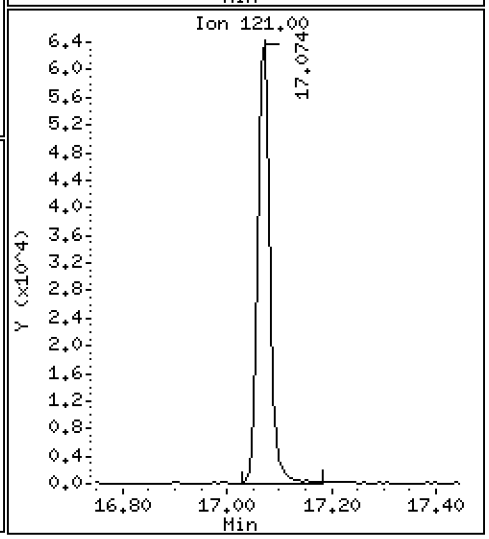












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

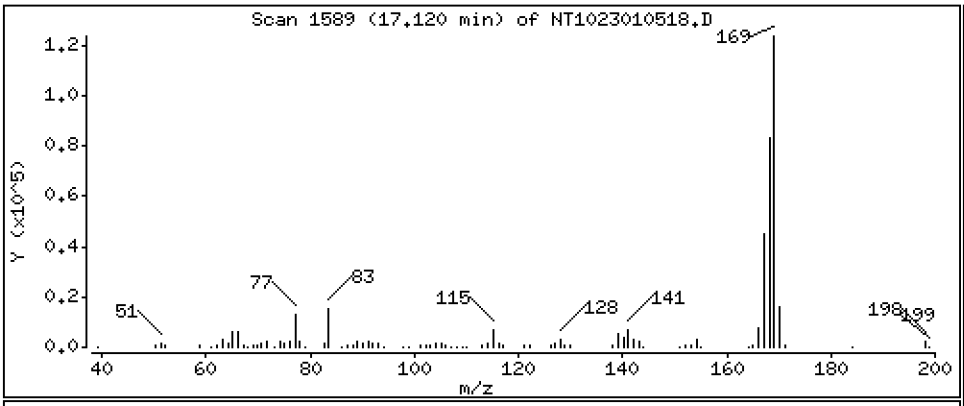
Operator: VTS

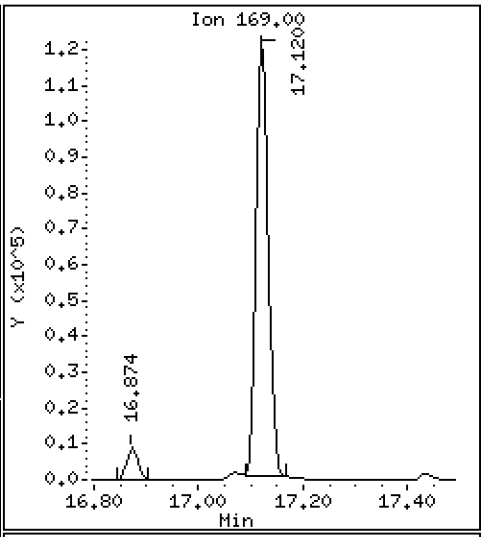
Column phase: ZB-5msi

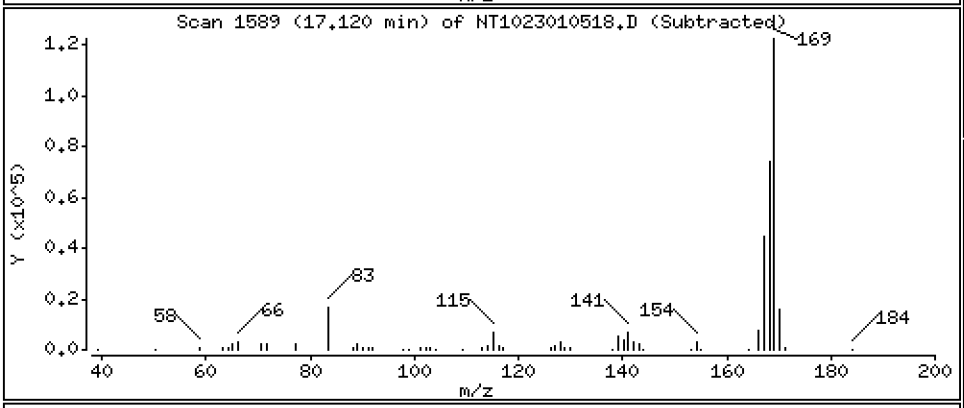
Column diameter: 0.25

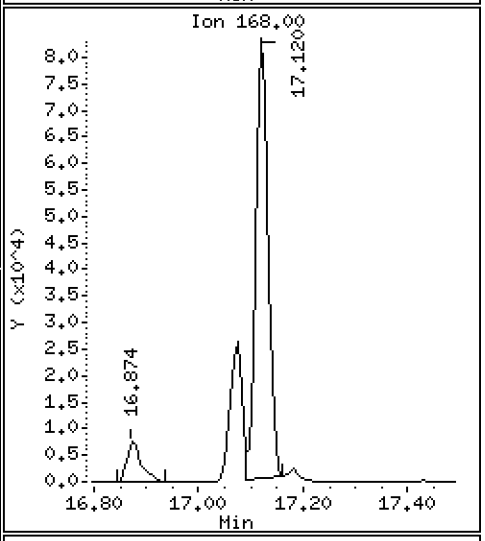
54 N-Nitrosodiphenylamine

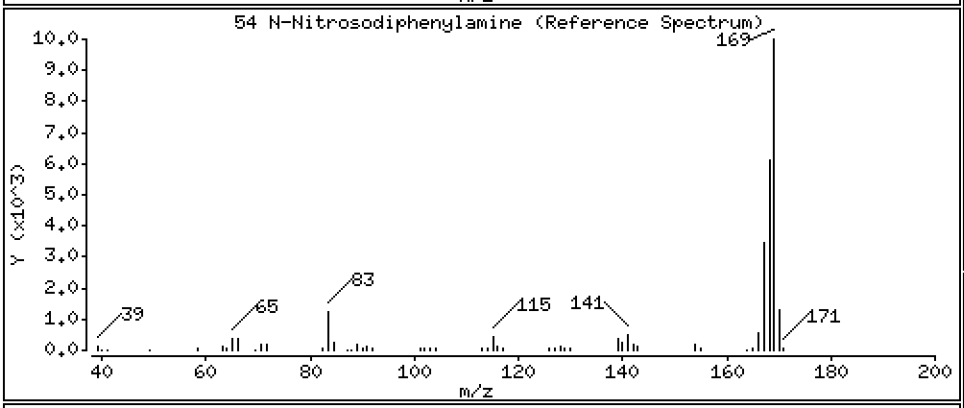
Concentration: 4.749 ug/mL

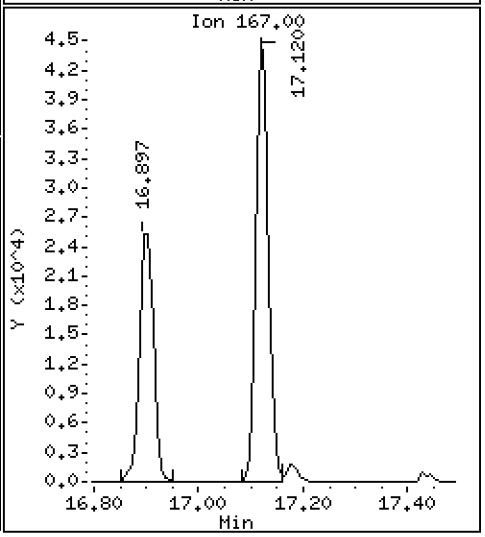


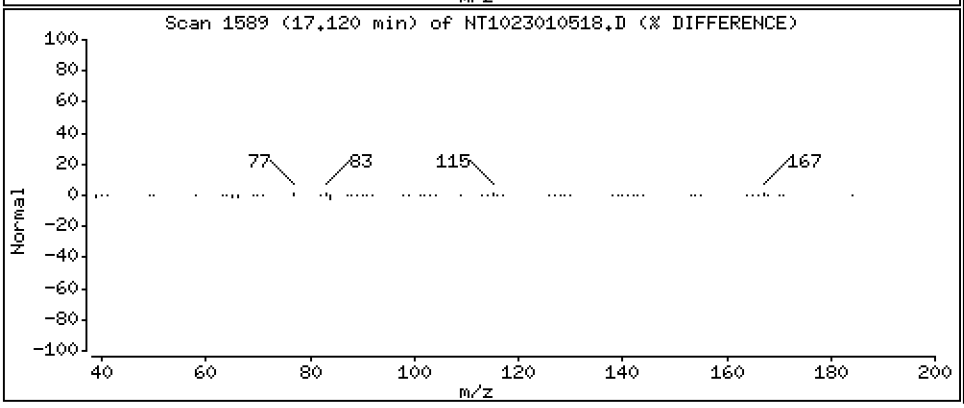












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

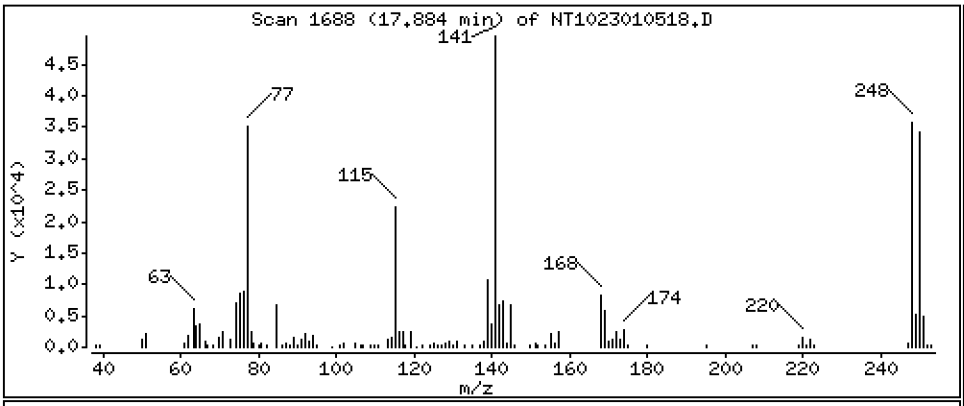
Operator: VTS

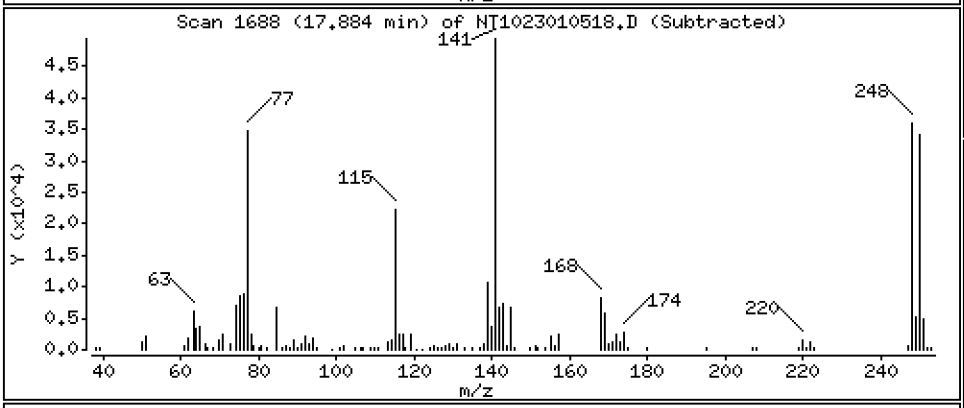
Column phase: ZB-5msi

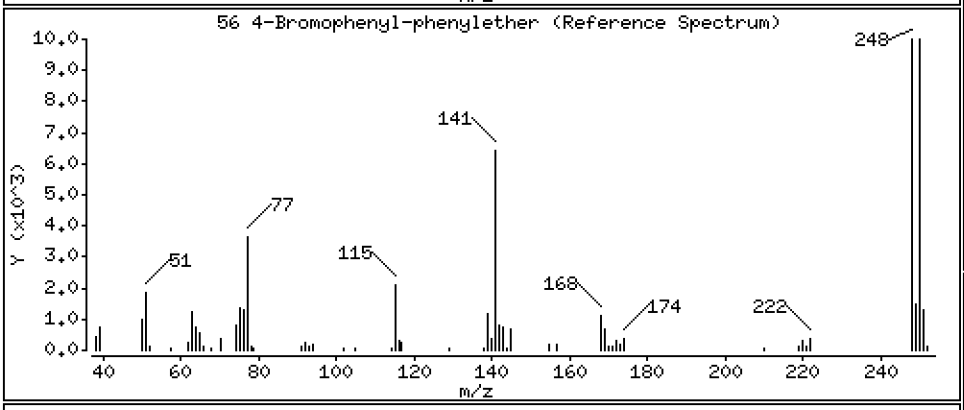
Column diameter: 0.25

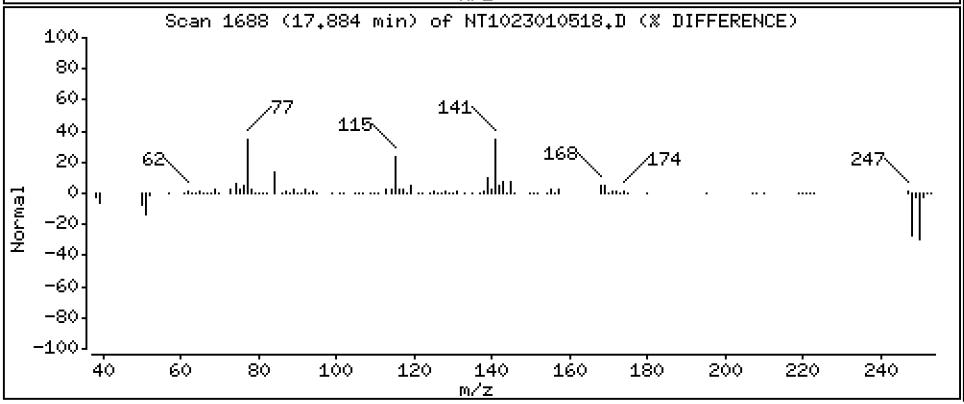
56 4-Bromophenyl-phenylether

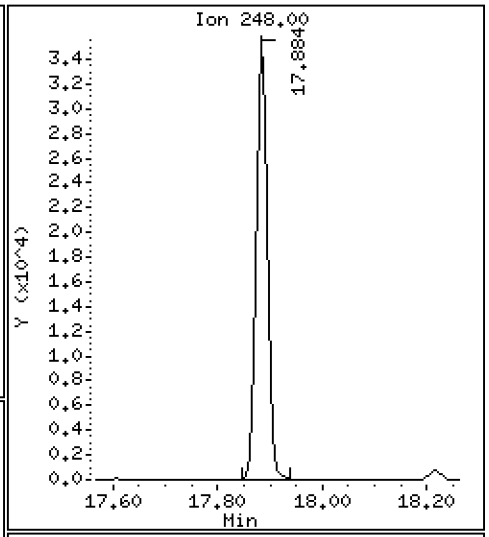
Concentration: 4.983 ug/mL

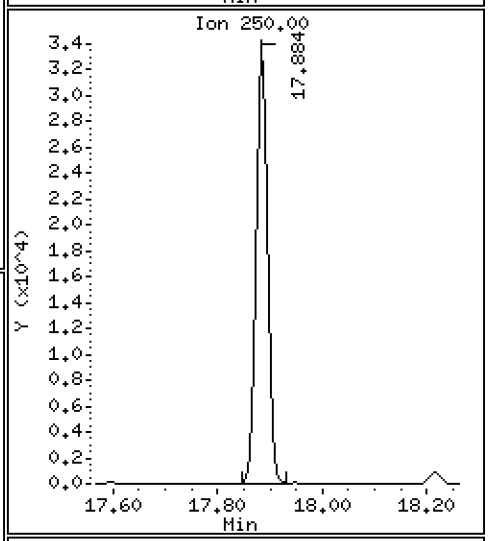


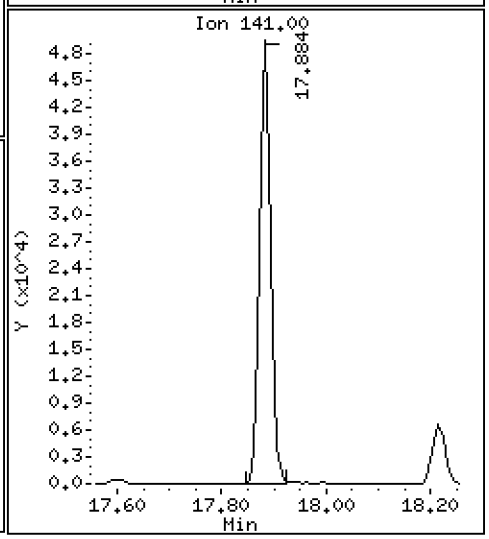












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

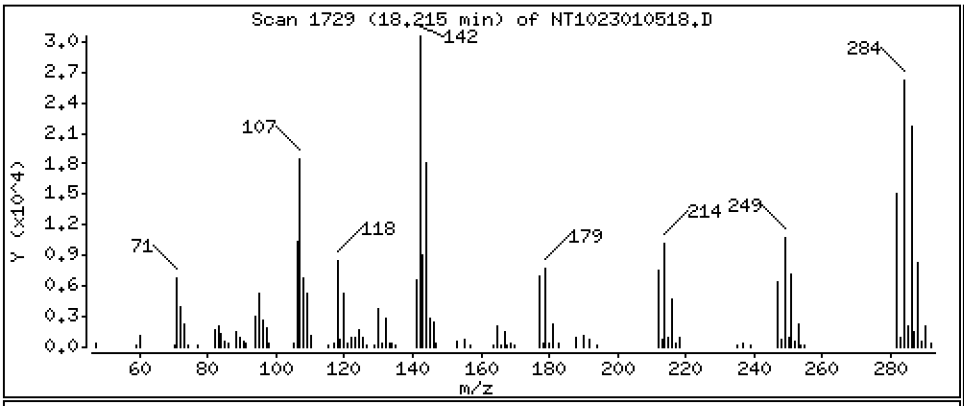
Operator: VTS

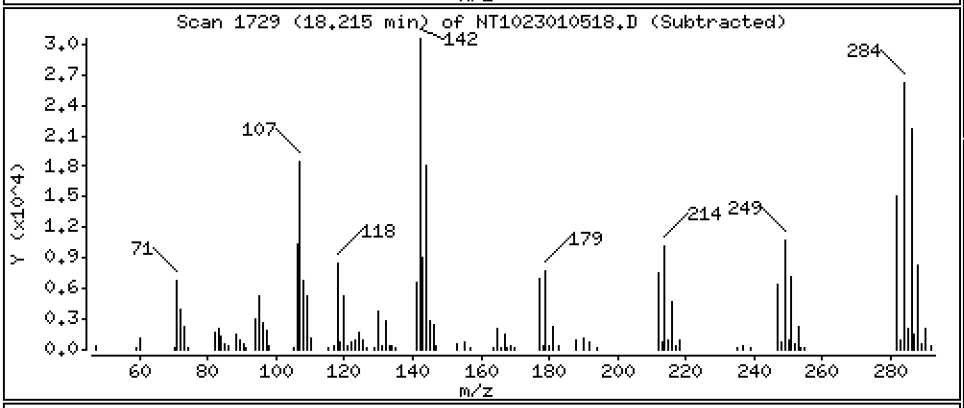
Column phase: ZB-5msi

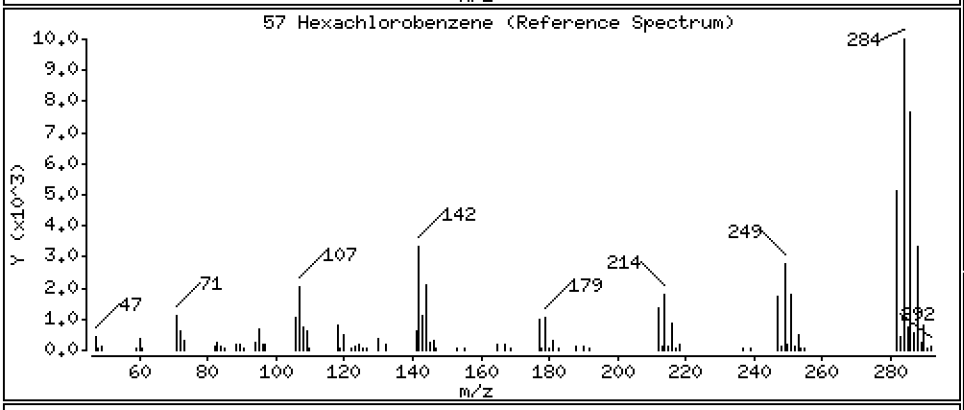
Column diameter: 0.25

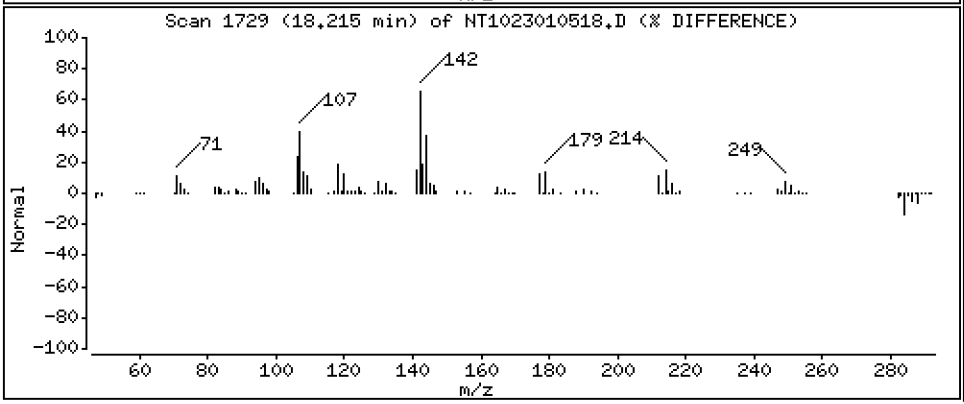
57 Hexachlorobenzene

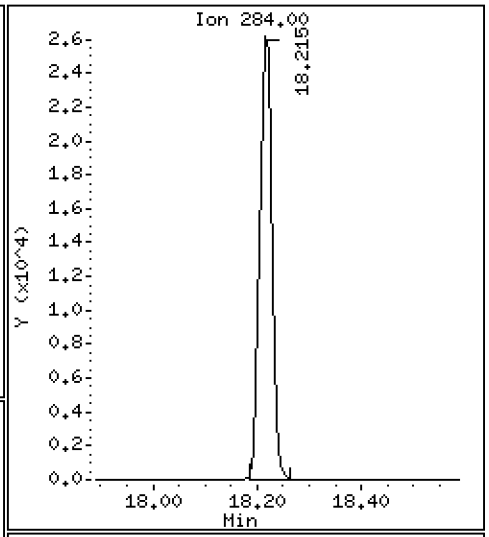
Concentration: 4.260 ug/mL

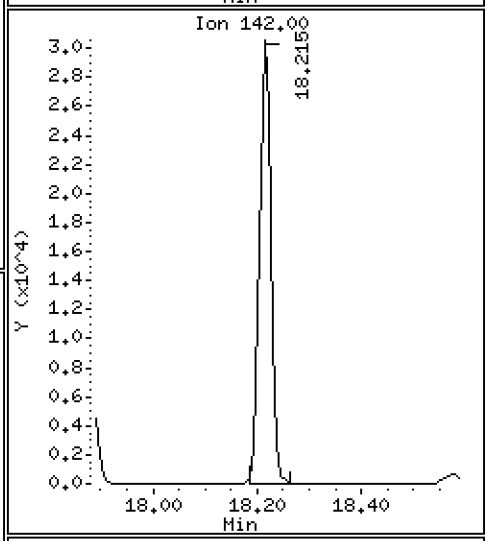


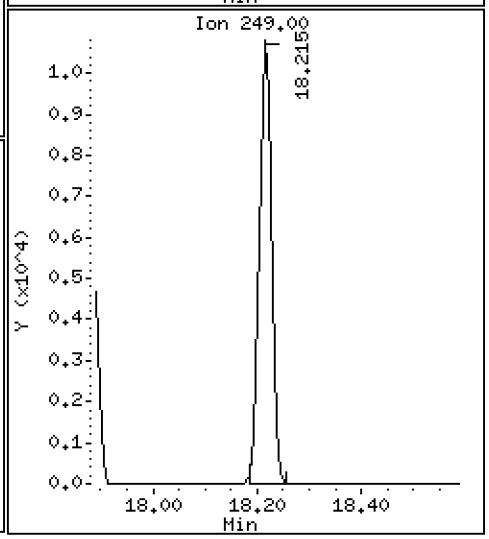












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

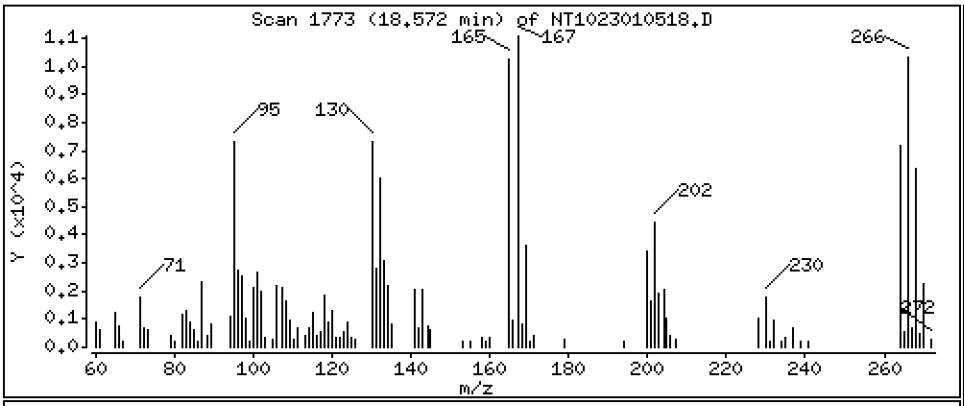
Operator: VTS

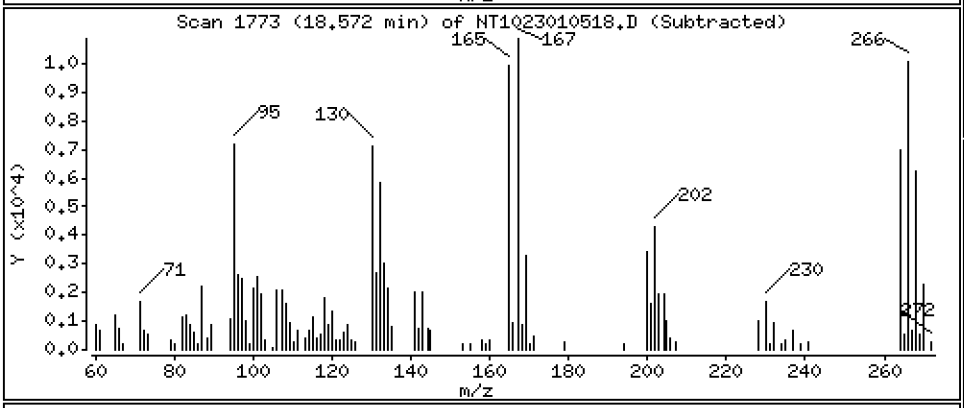
Column phase: ZB-5msi

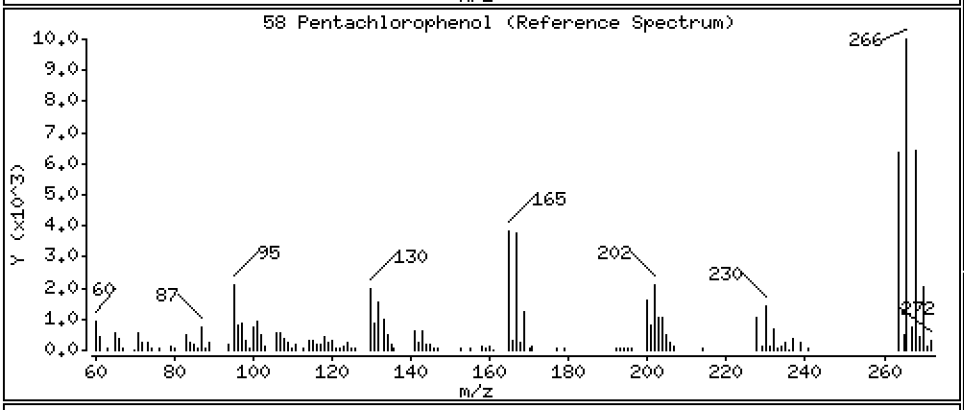
Column diameter: 0.25

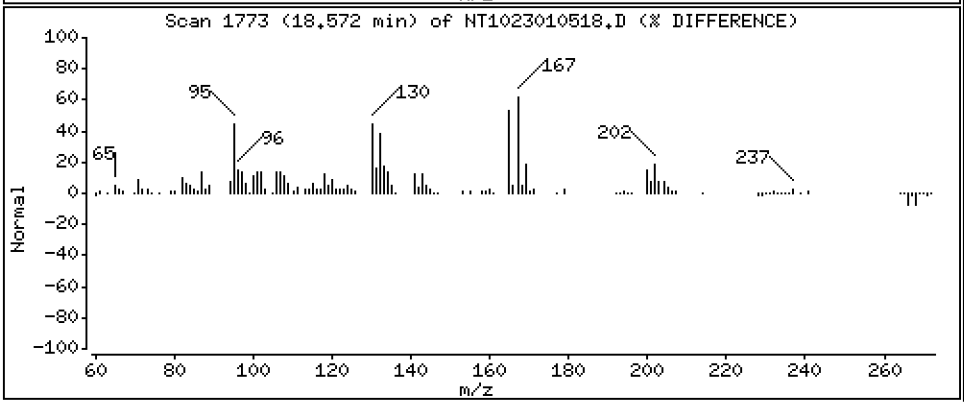
58 Pentachlorophenol

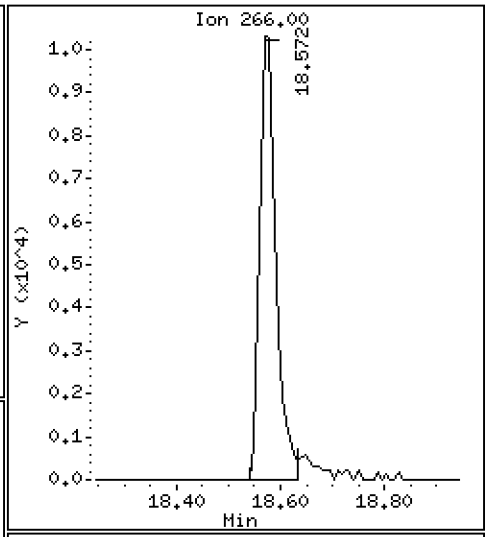
Concentration: 11.66 ug/mL

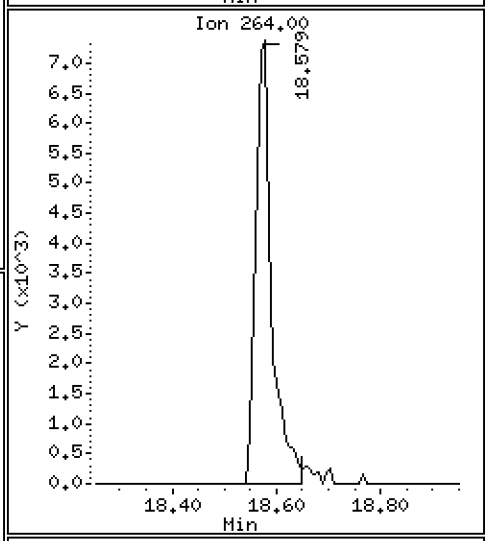


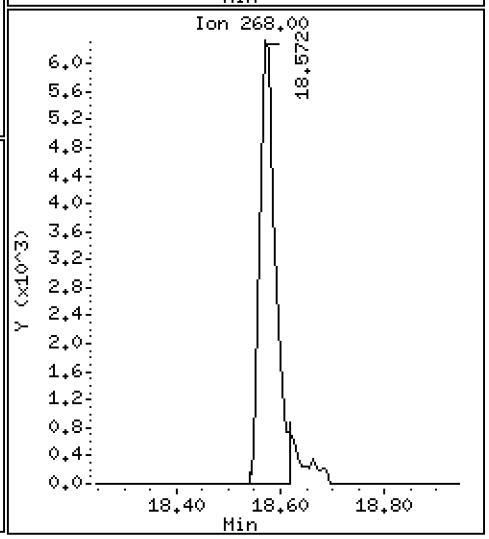












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

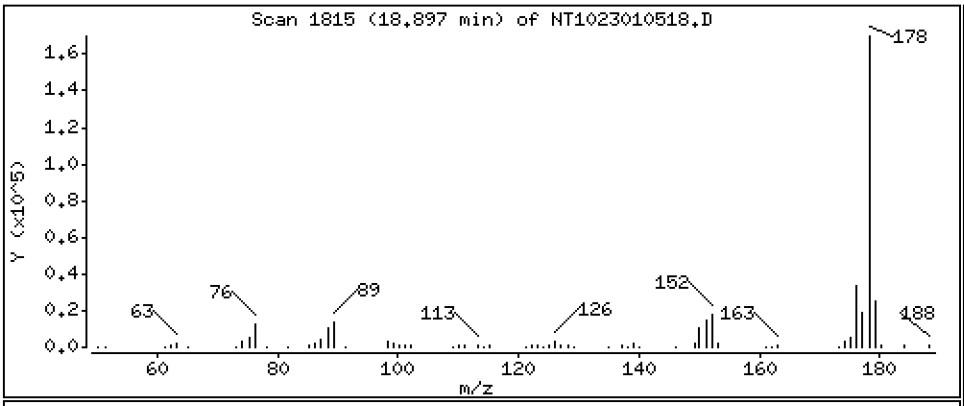
Operator: VTS

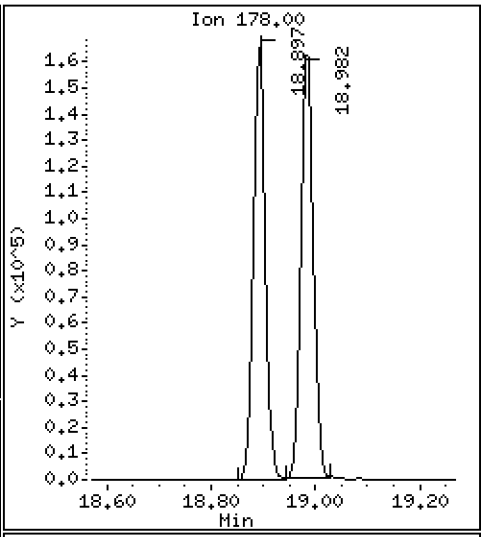
Column phase: ZB-5msi

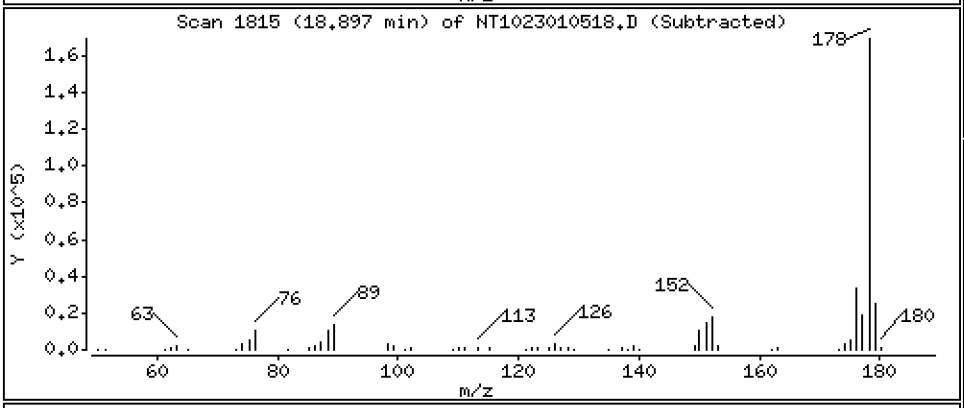
Column diameter: 0.25

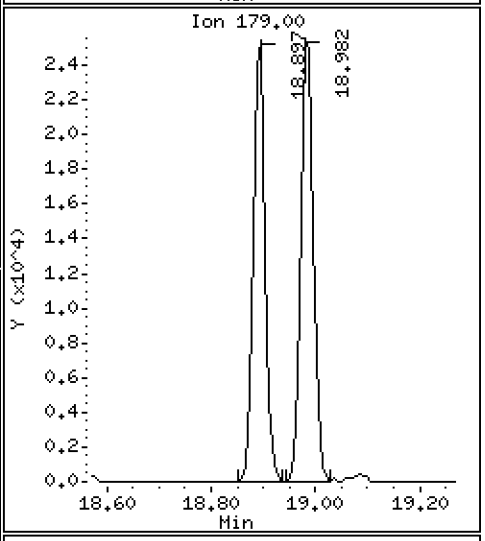
60 Phenanthrene

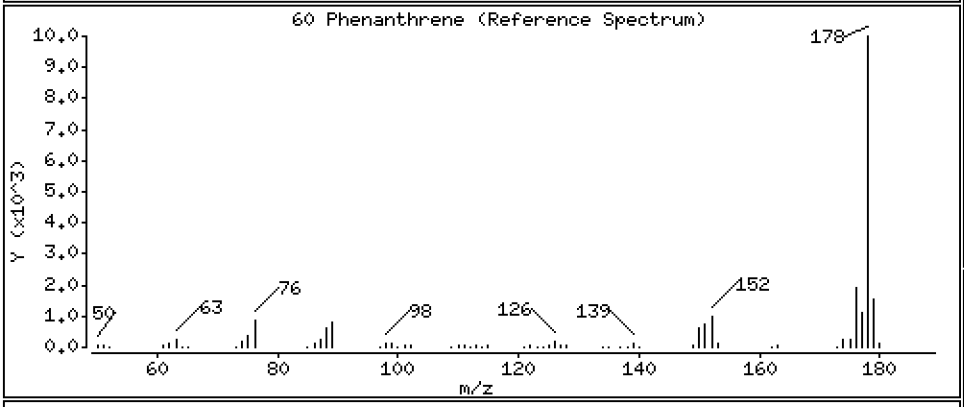
Concentration: 4.906 ug/mL

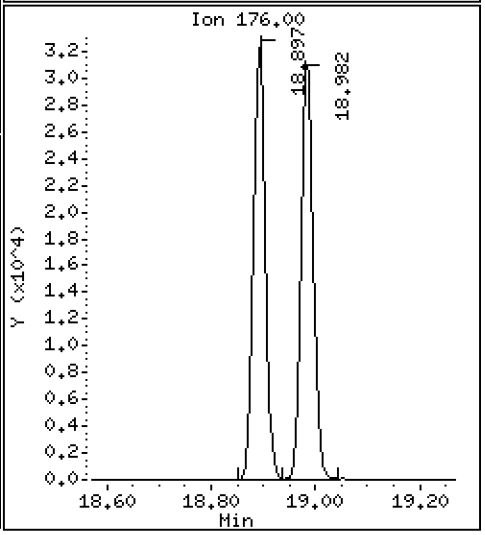


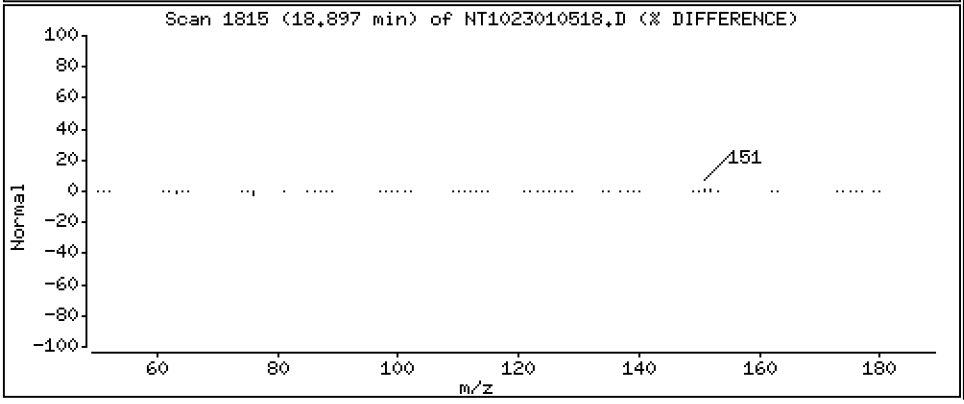












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

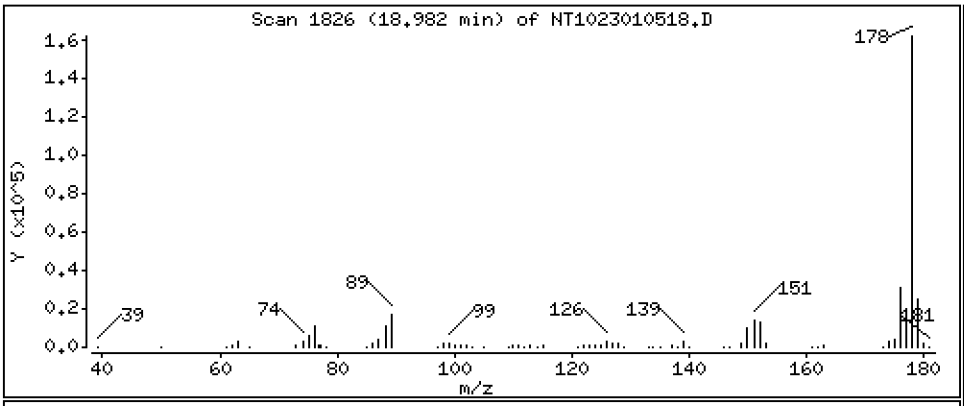
Operator: VTS

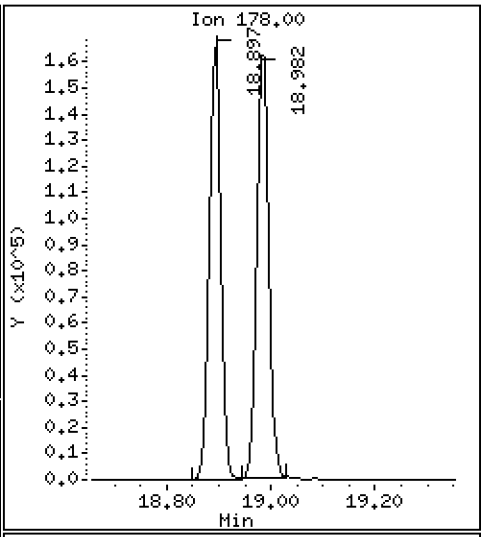
Column phase: ZB-5msi

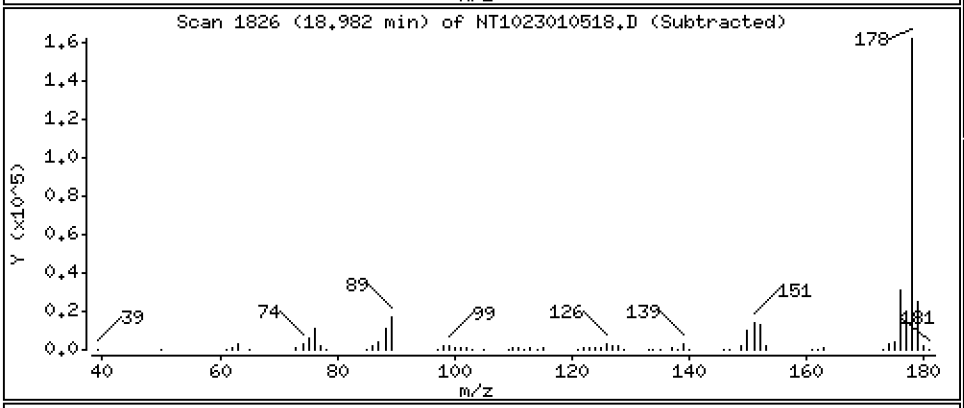
Column diameter: 0.25

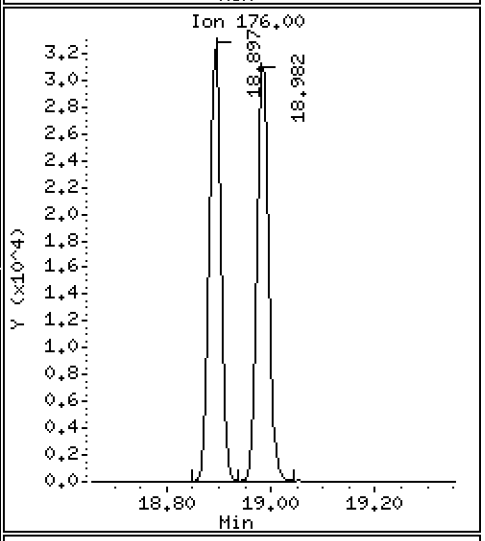
61 Anthracene

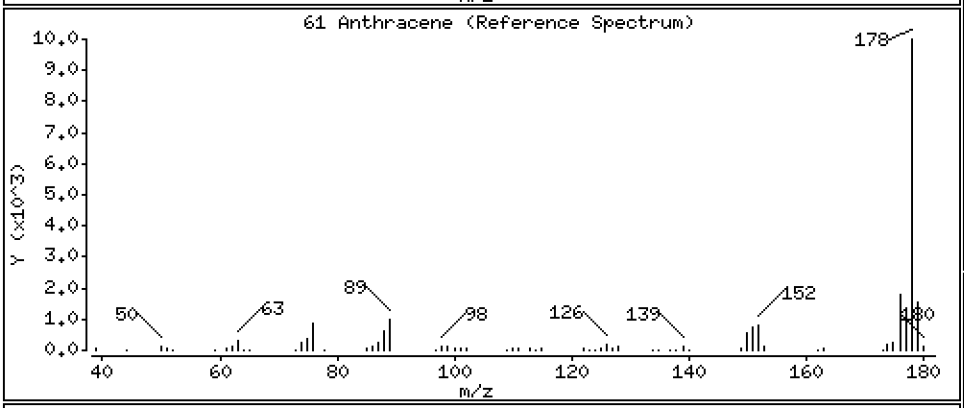
Concentration: 5.008 ug/mL

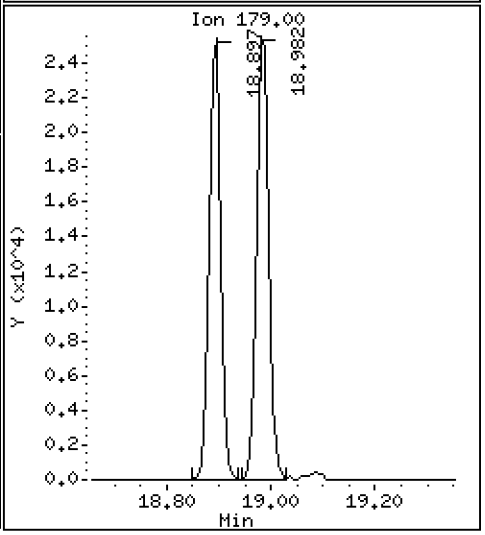


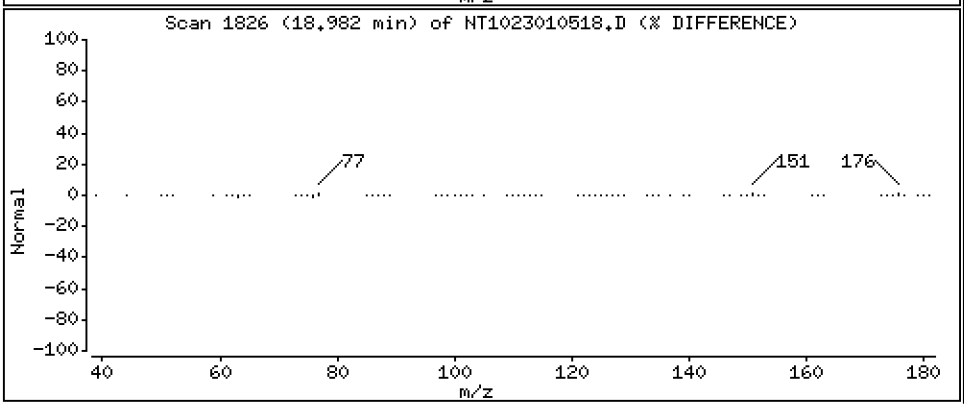












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

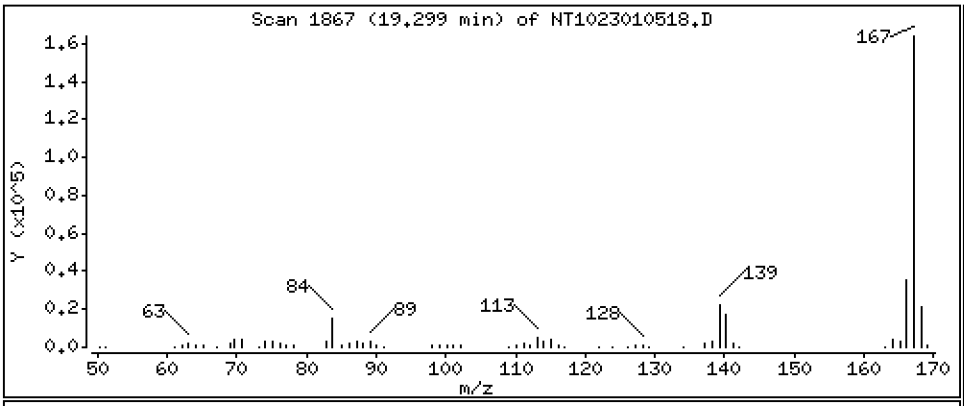
Operator: VTS

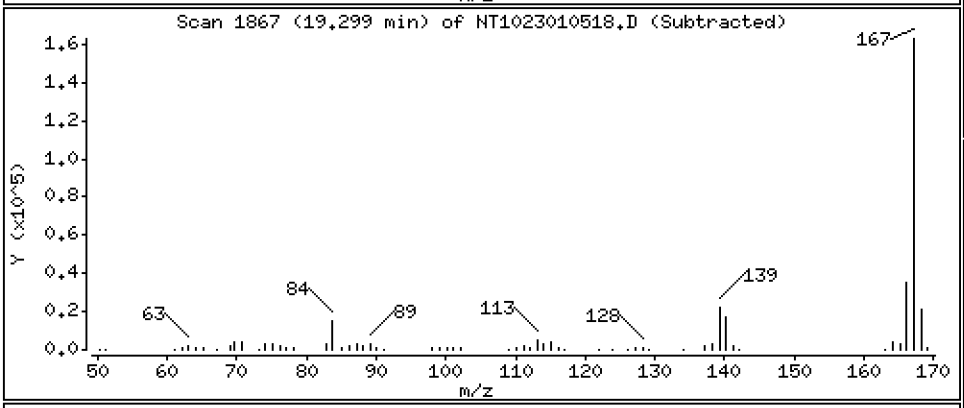
Column phase: ZB-5msi

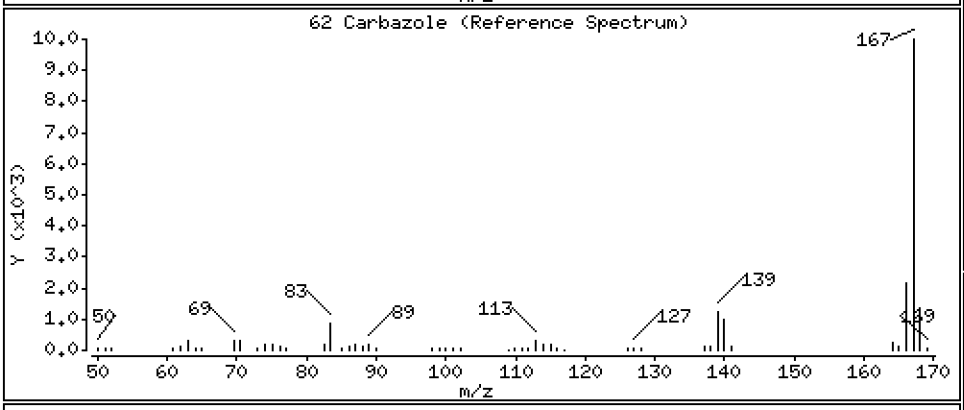
Column diameter: 0.25

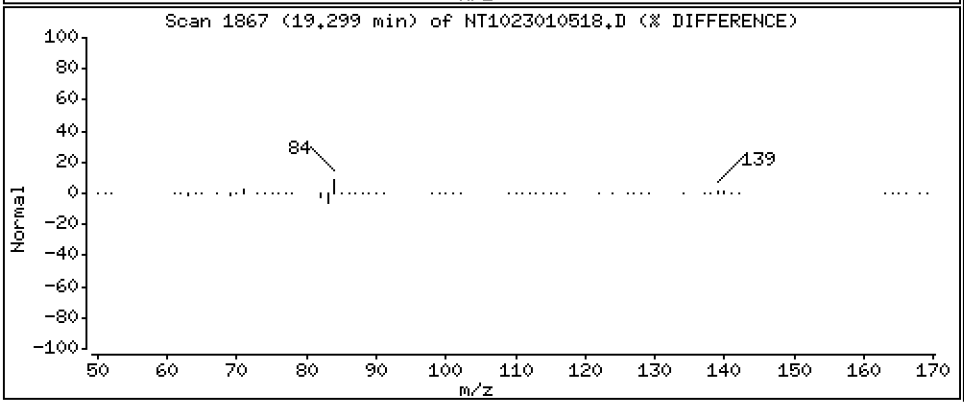
62 Carbazole

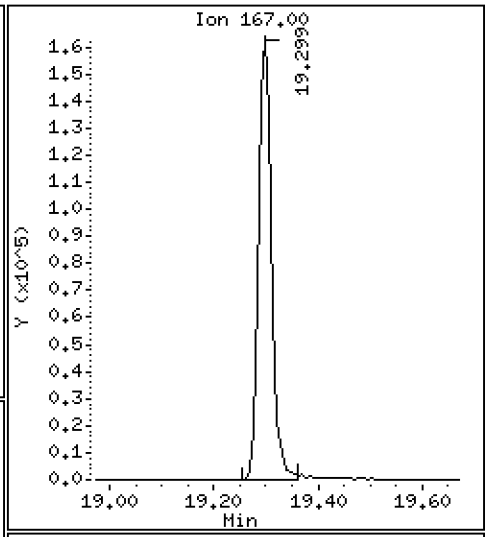
Concentration: 5.078 ug/mL

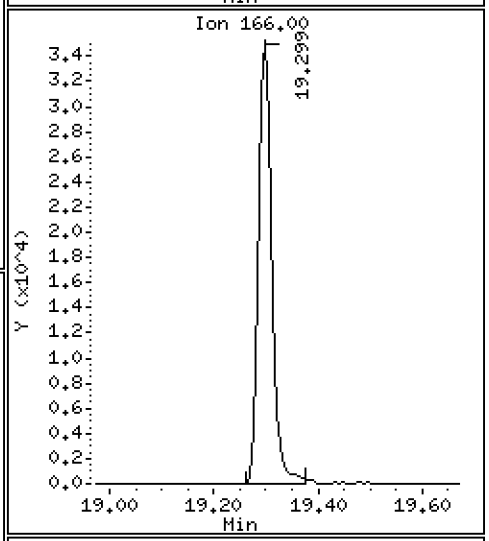


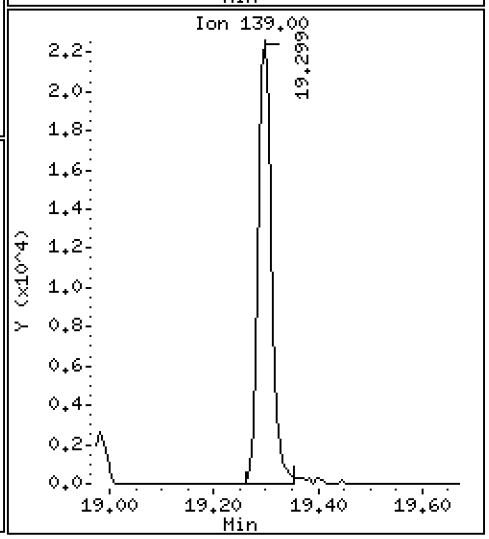












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

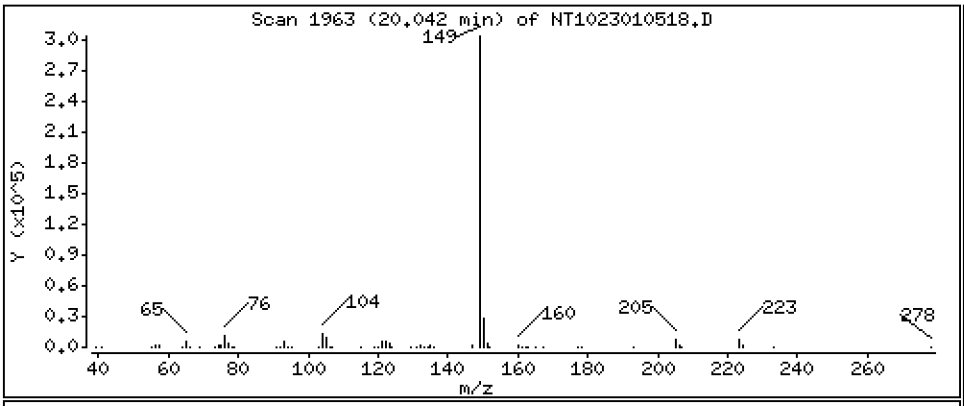
Operator: VTS

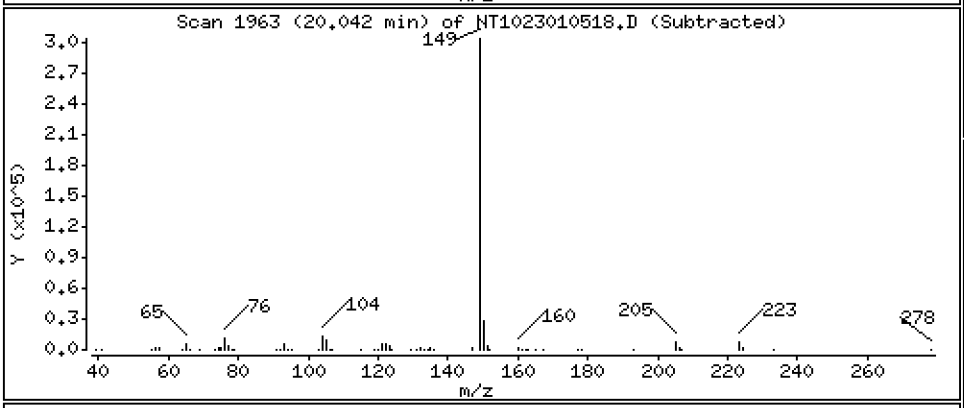
Column phase: ZB-5msi

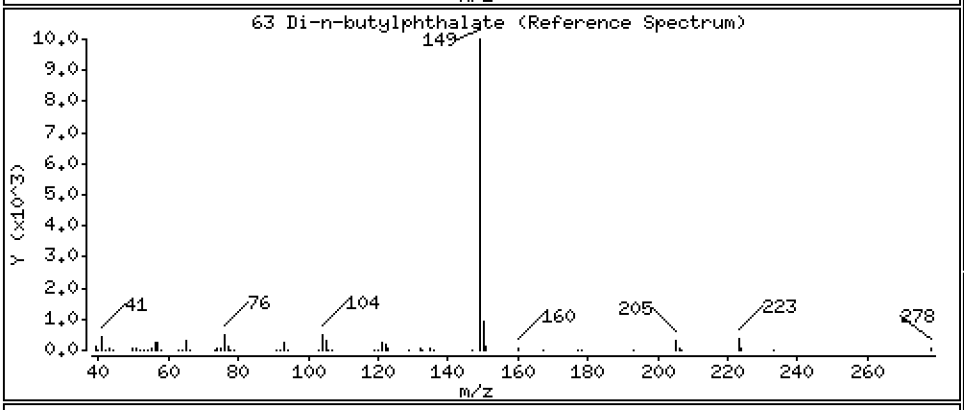
Column diameter: 0.25

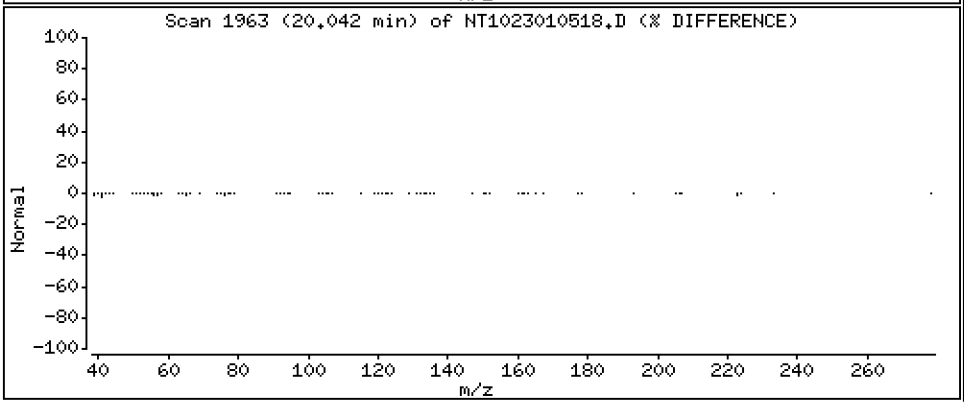
63 Di-n-butylphthalate

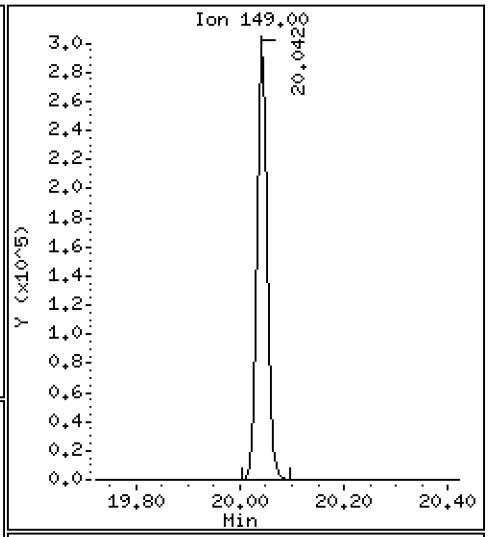
Concentration: 5.239 ug/mL

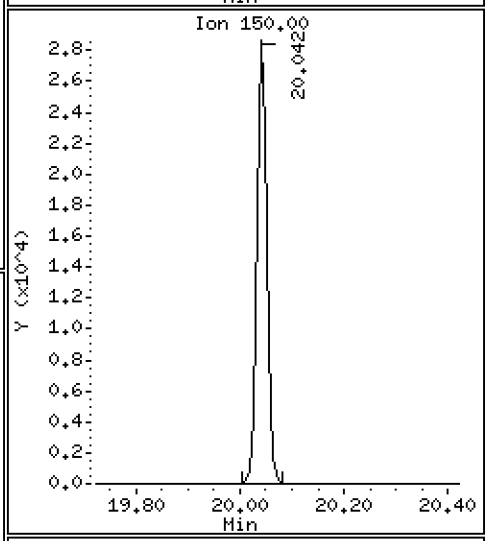


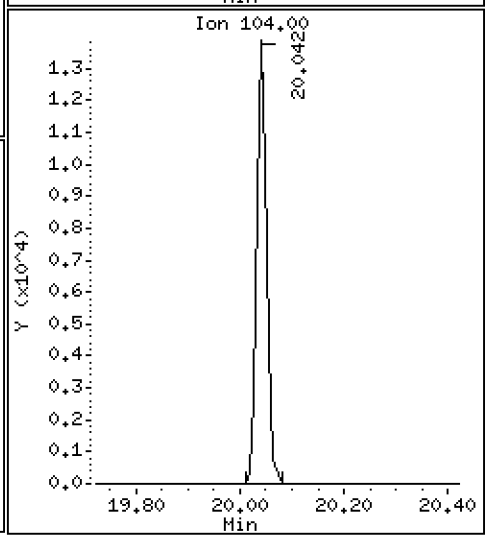












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

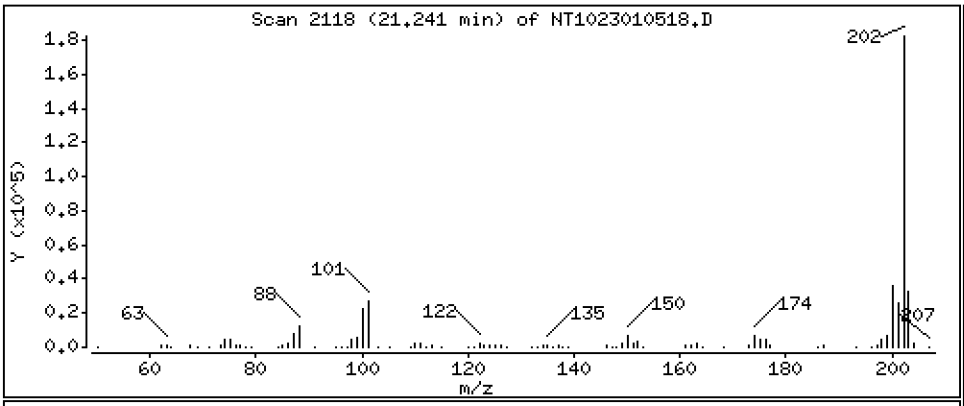
Operator: VTS

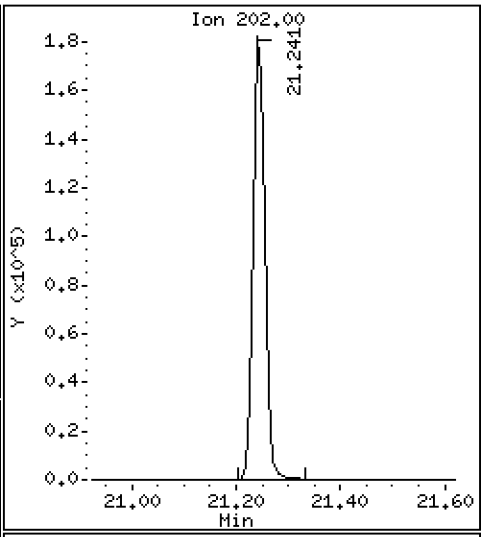
Column phase: ZB-5msi

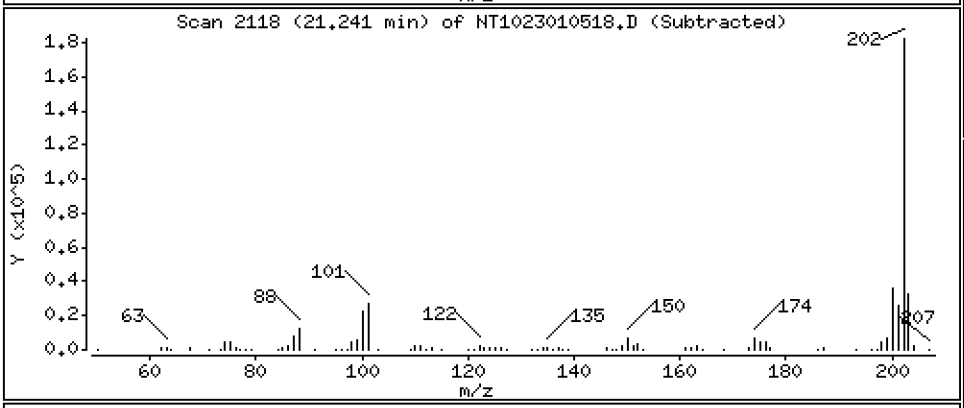
Column diameter: 0.25

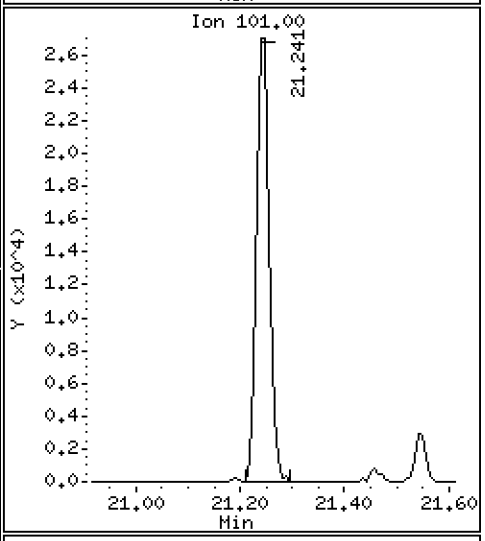
64 Fluoranthene

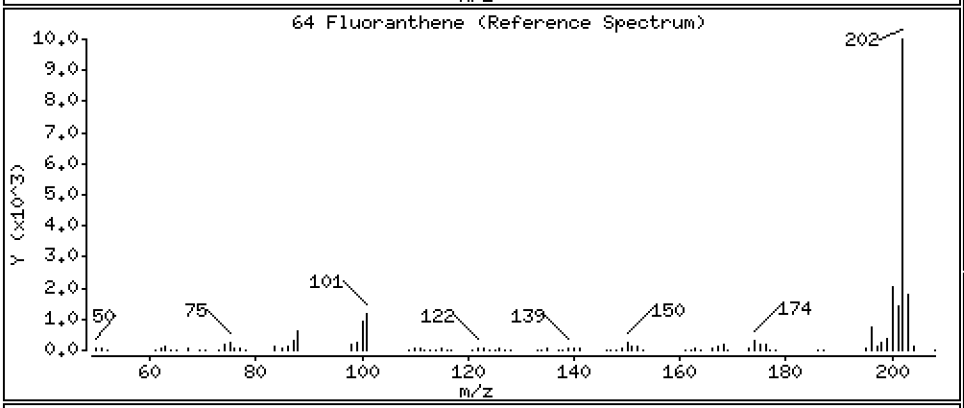
Concentration: 4.768 ug/mL

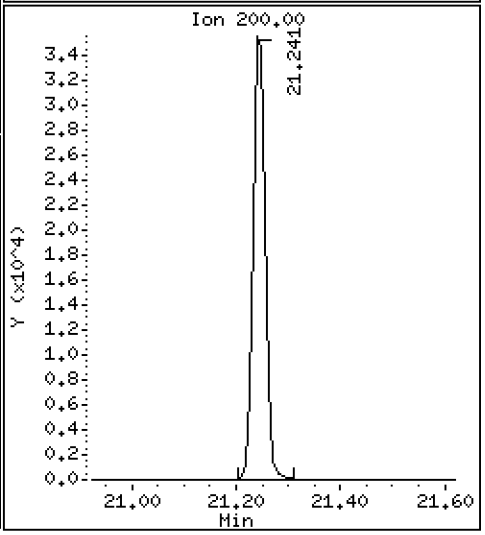


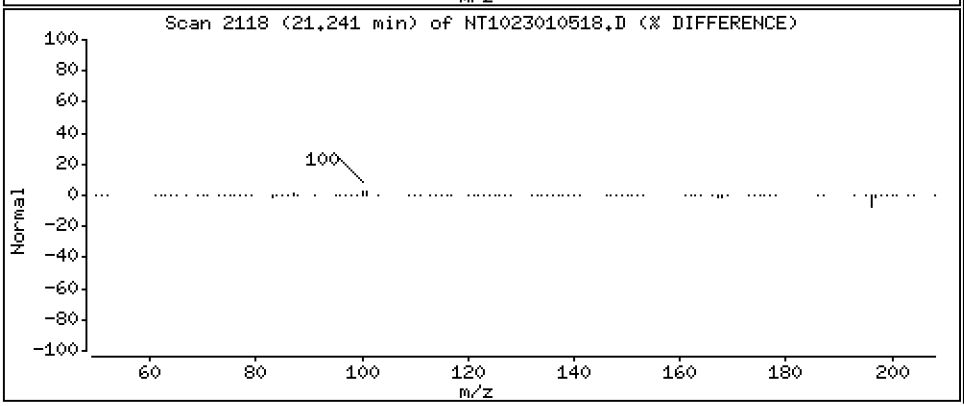












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

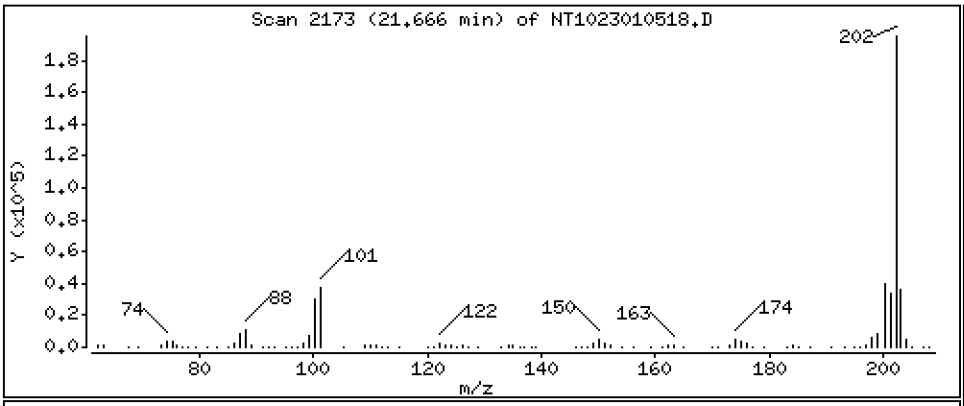
Operator: VTS

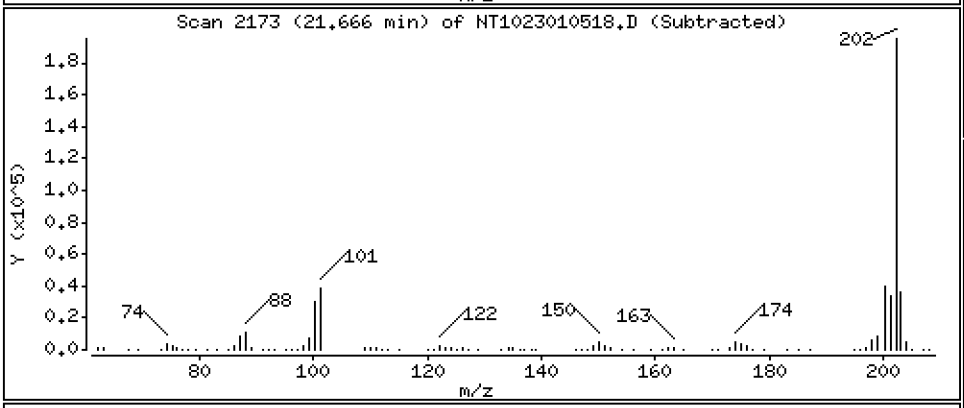
Column phase: ZB-5msi

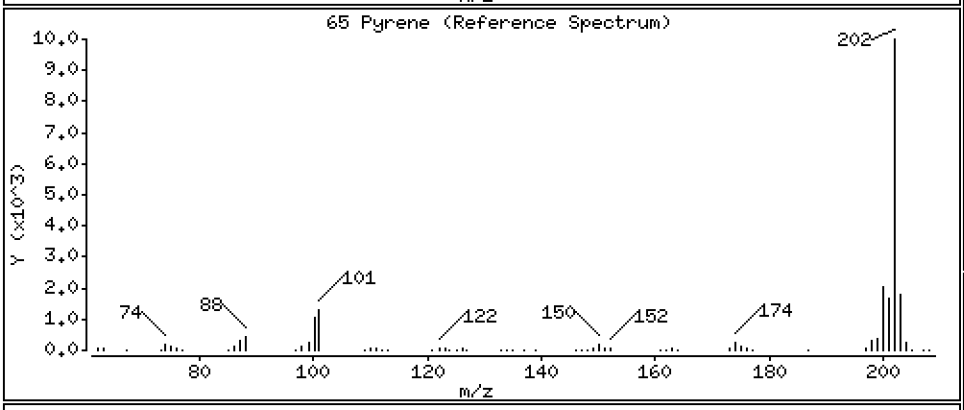
Column diameter: 0.25

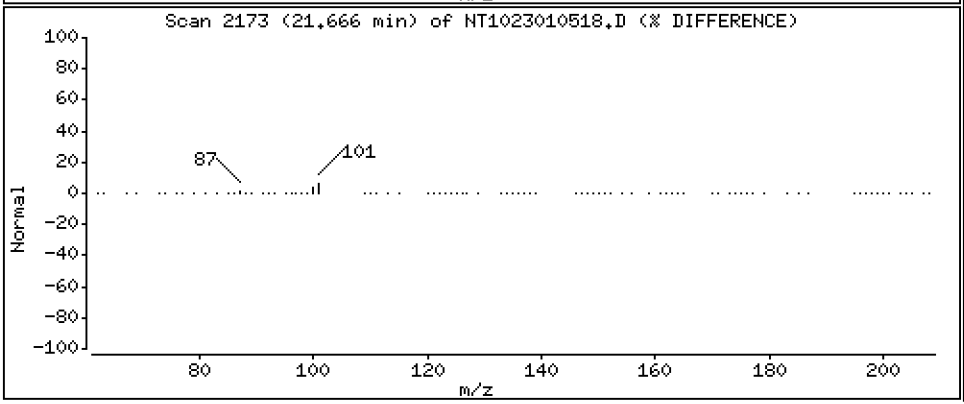
65 Pyrene

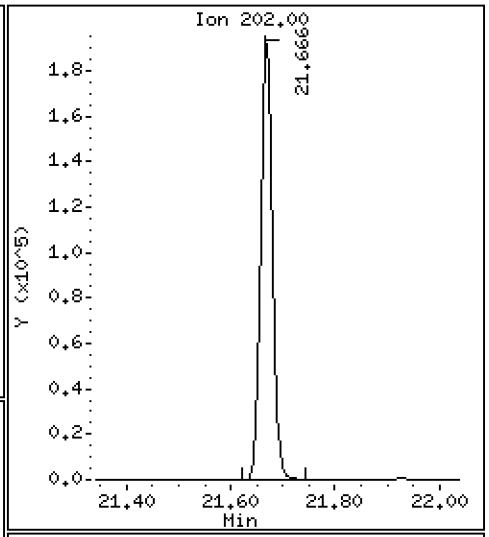
Concentration: 4.958 ug/mL

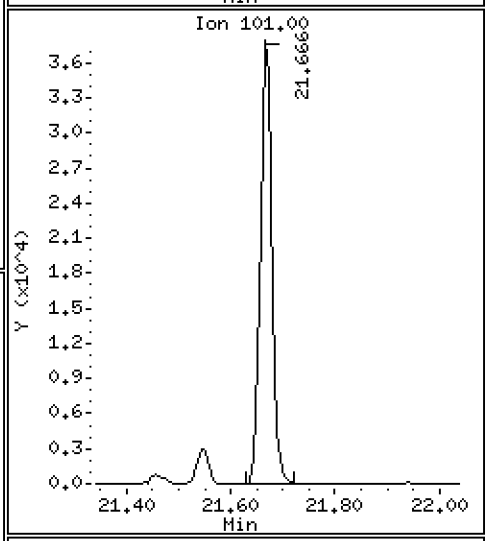


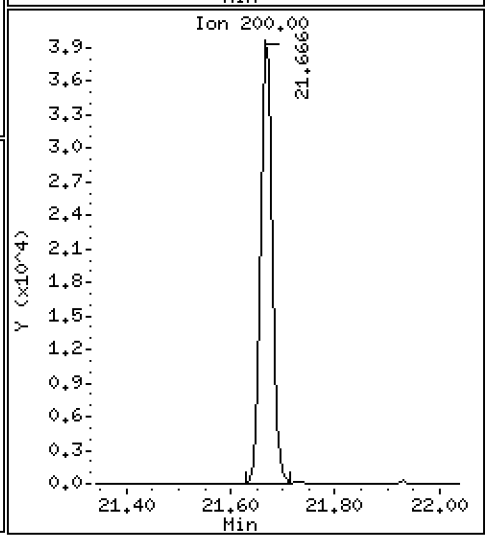












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

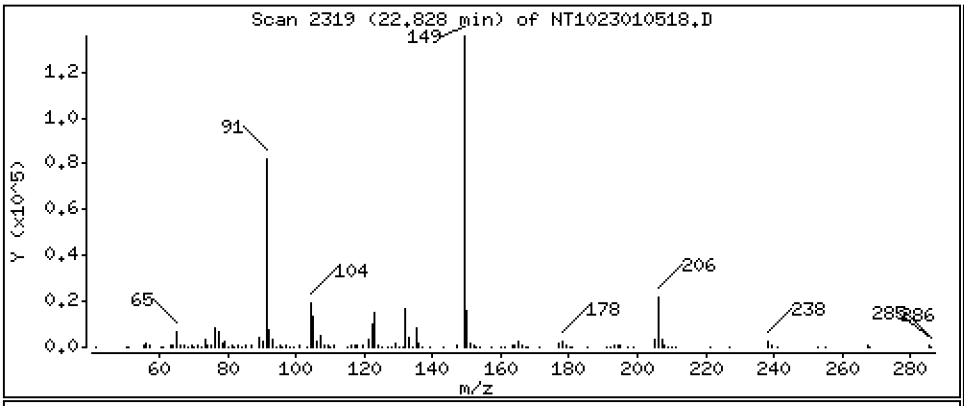
Operator: VTS

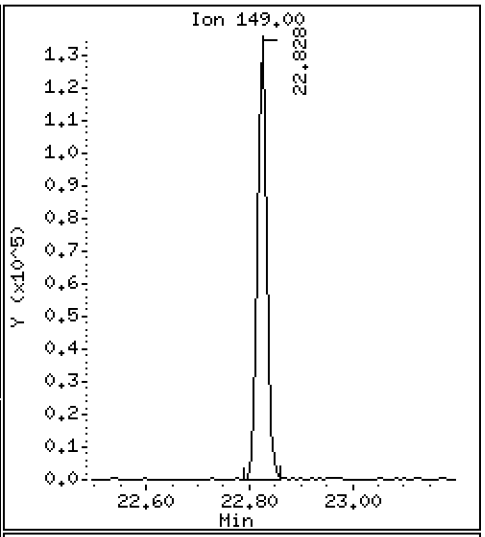
Column phase: ZB-5msi

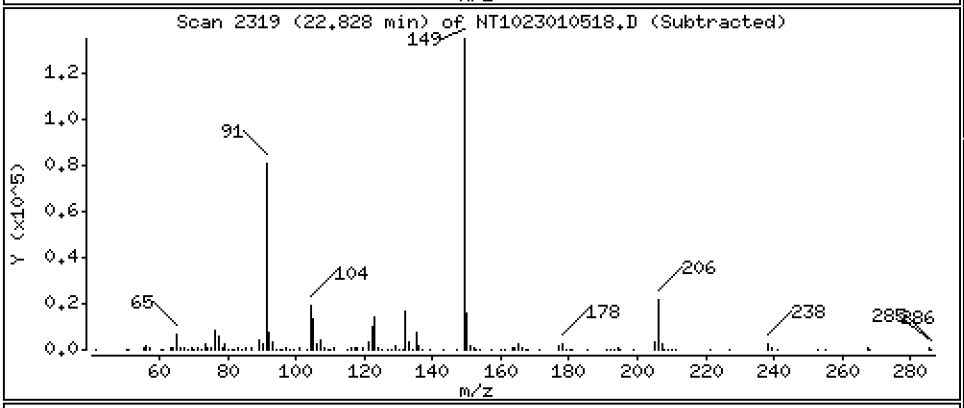
Column diameter: 0.25

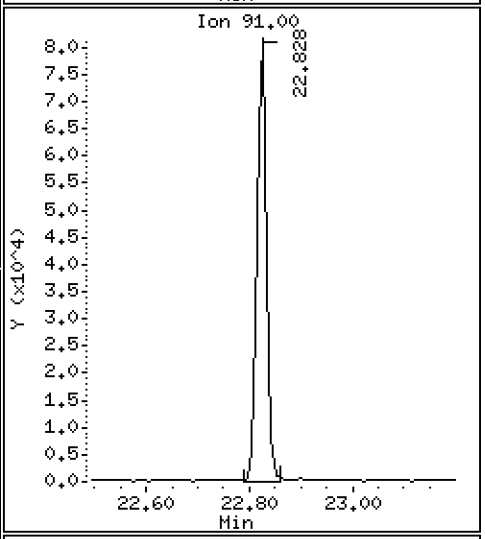
67 Butylbenzylphthalate

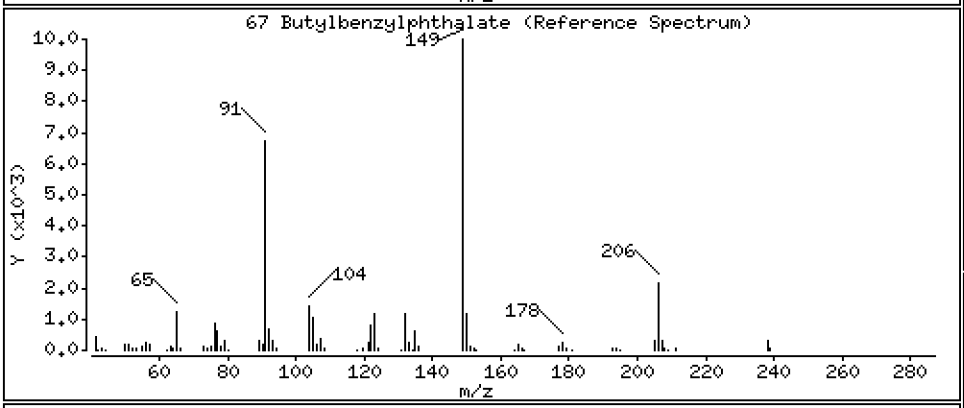
Concentration: 5.082 ug/mL

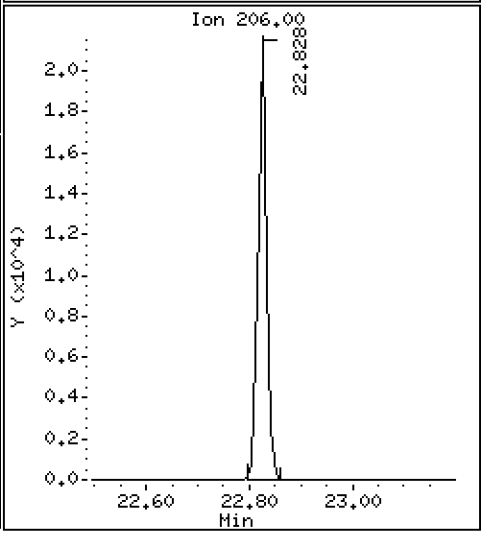


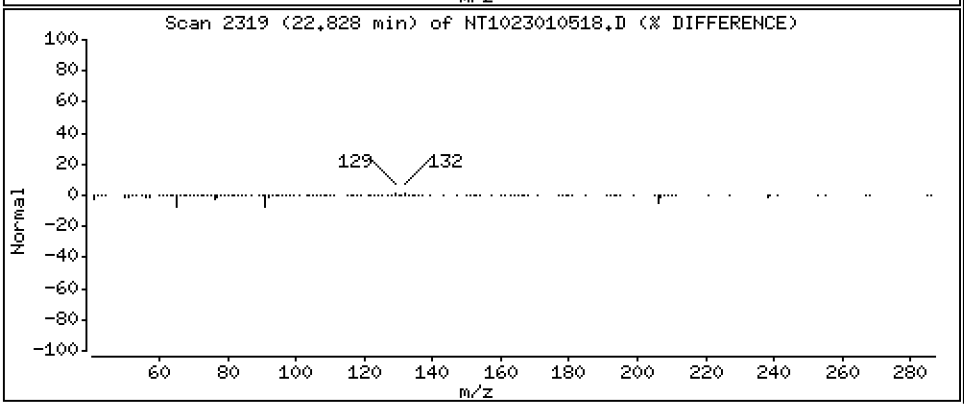












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

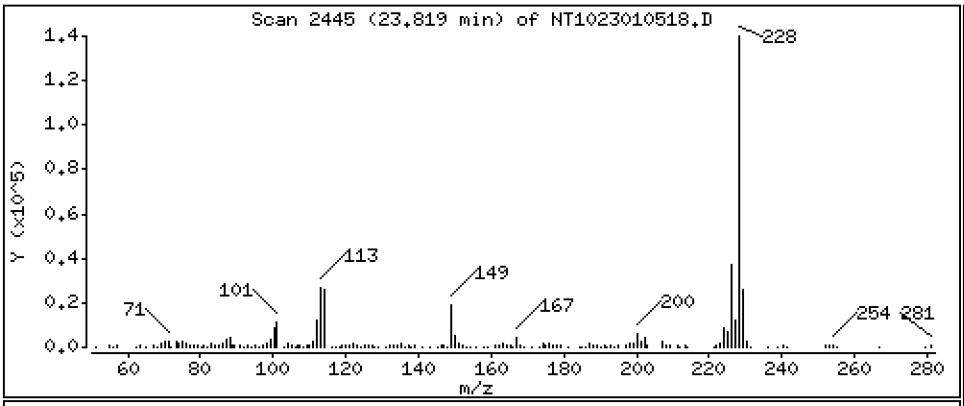
Operator: VTS

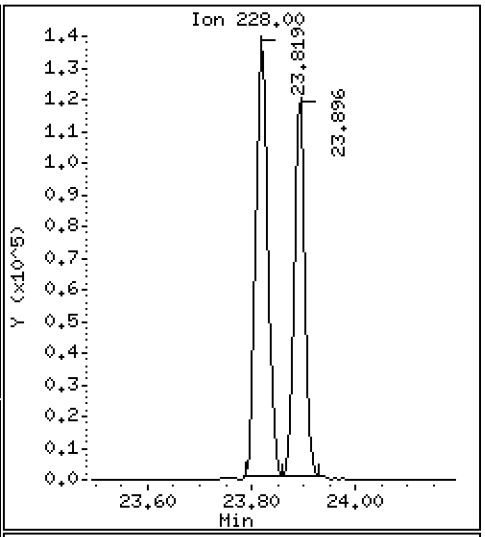
Column phase: ZB-5msi

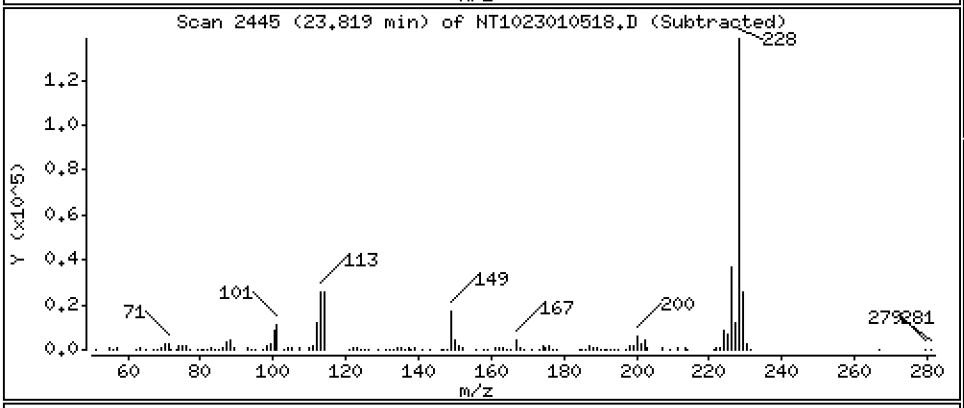
Column diameter: 0.25

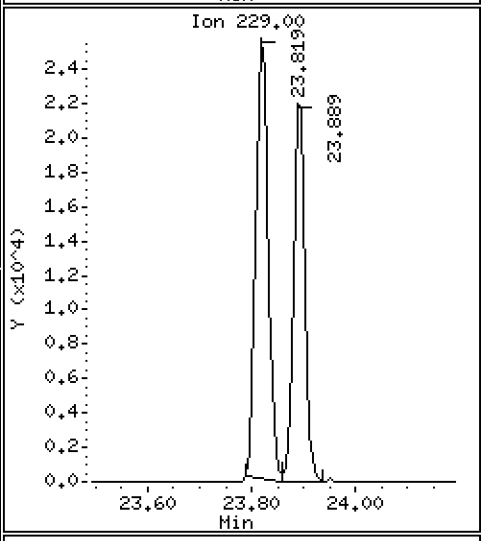
68 Benzo(a)anthracene

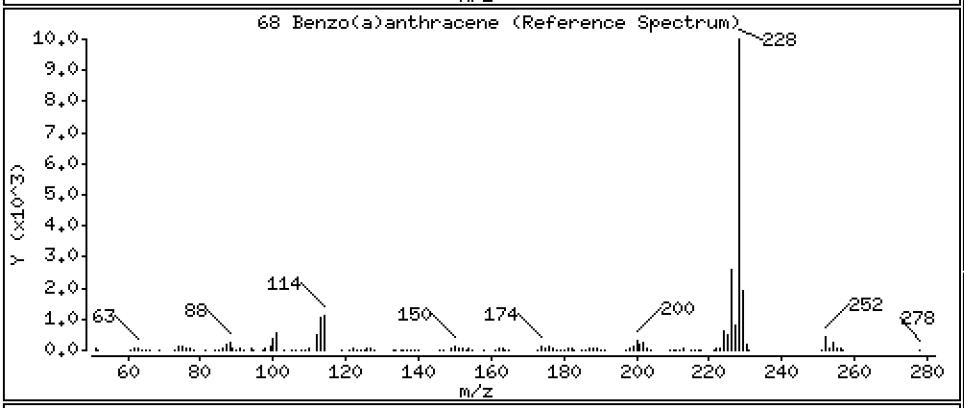
Concentration: 4.703 ug/mL

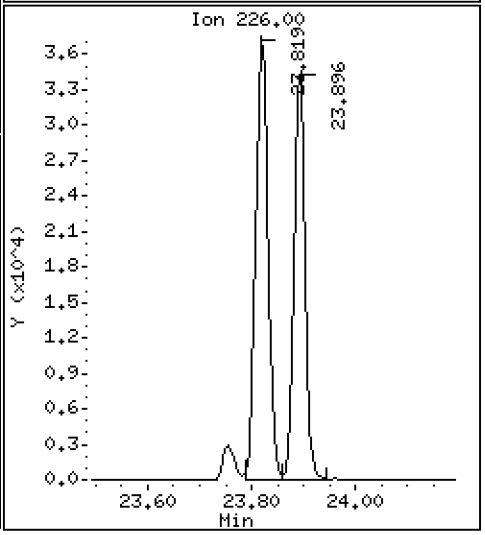


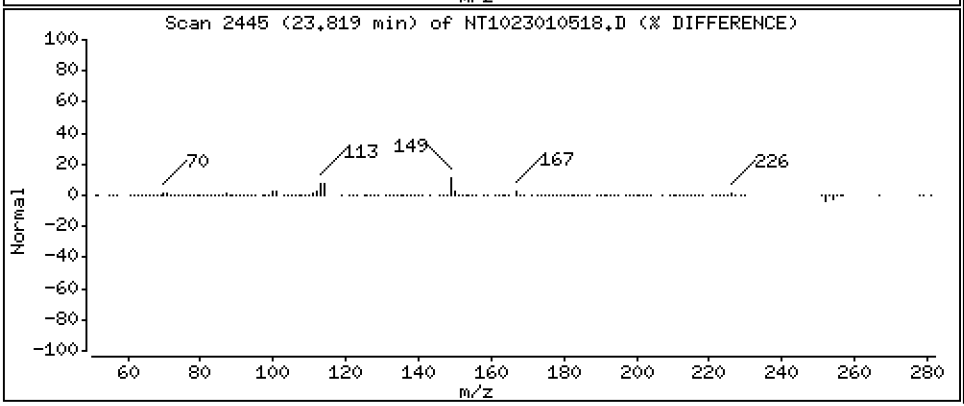












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

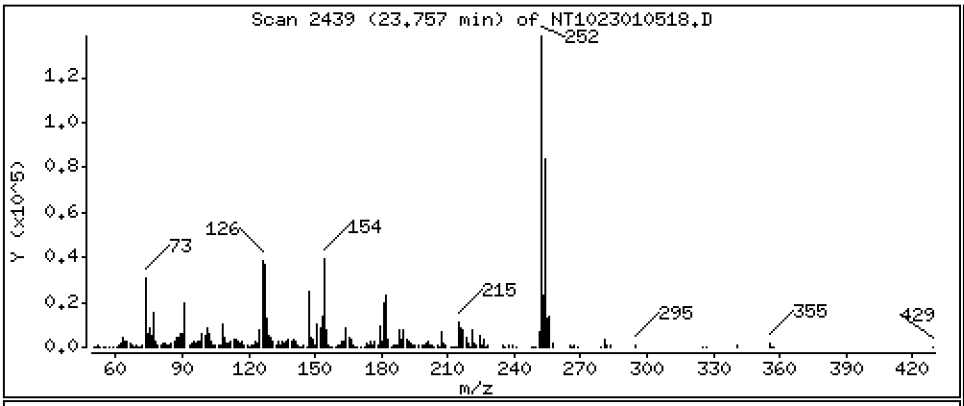
Operator: VTS

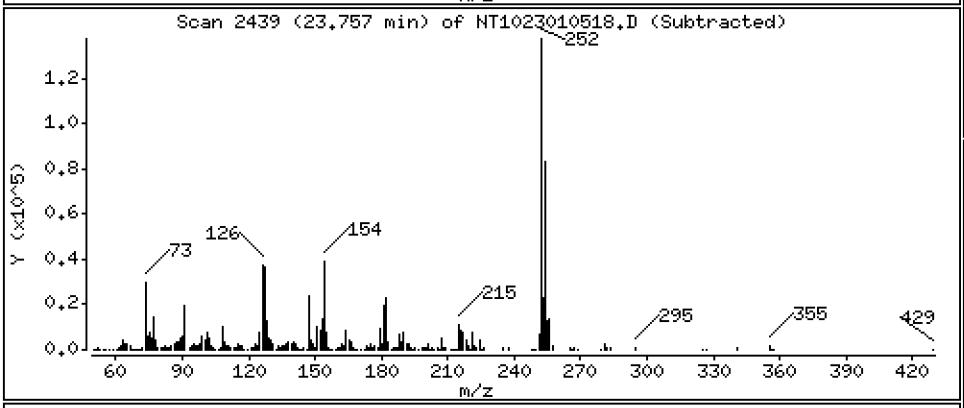
Column phase: ZB-5msi

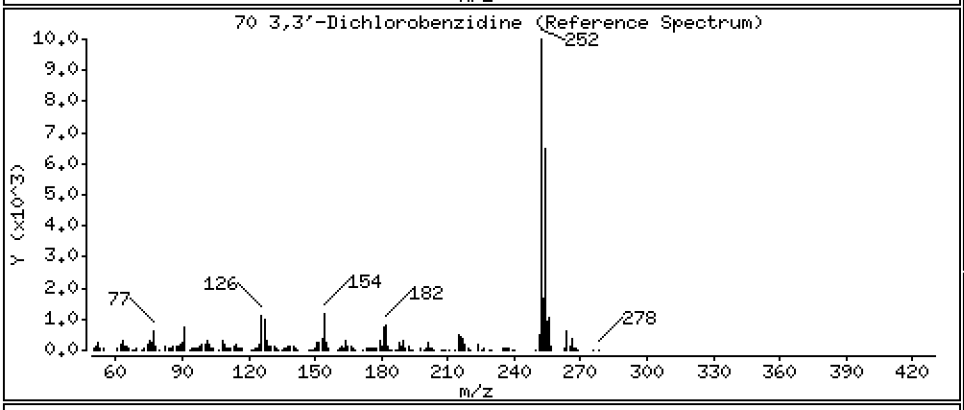
Column diameter: 0.25

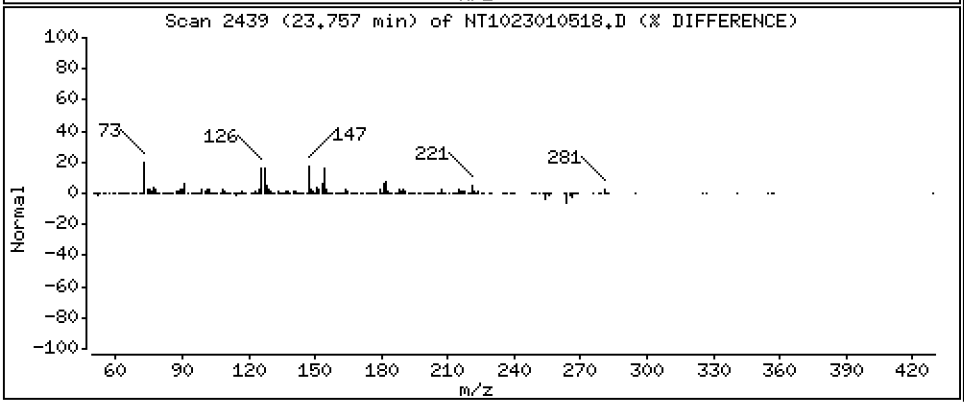
70 3,3'-Dichlorobenzidine

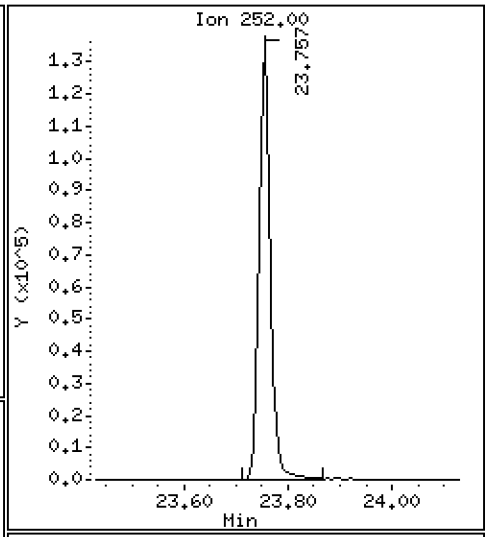
Concentration: 14.41 ug/mL

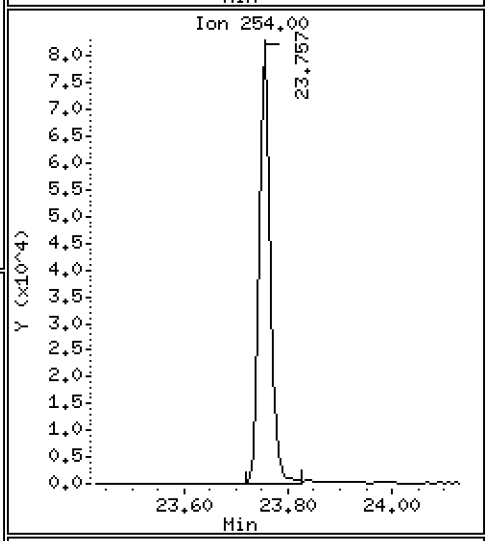


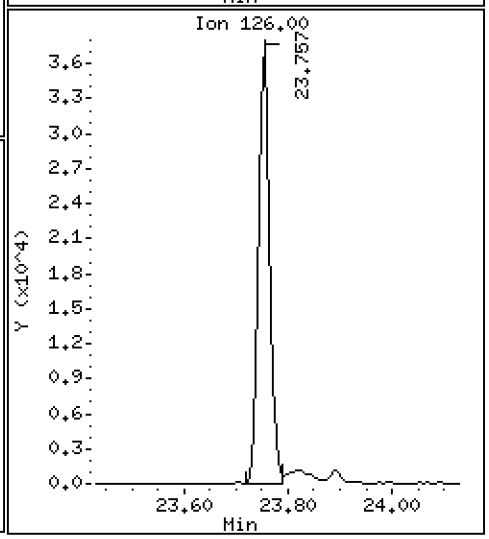












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

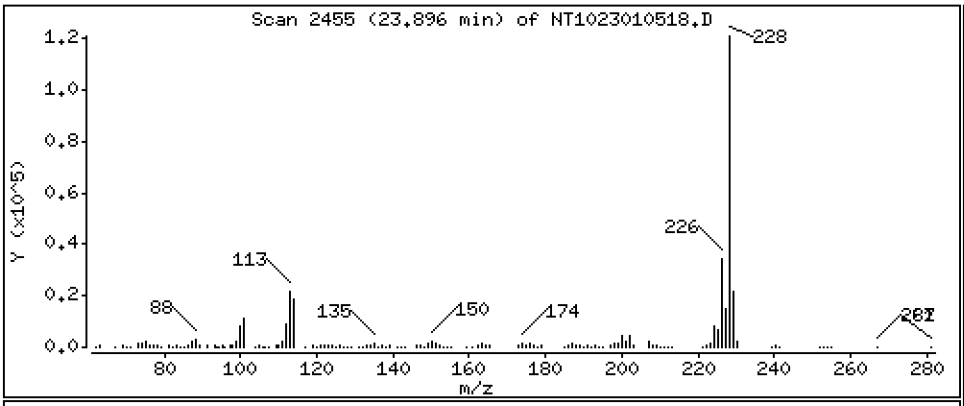
Operator: VTS

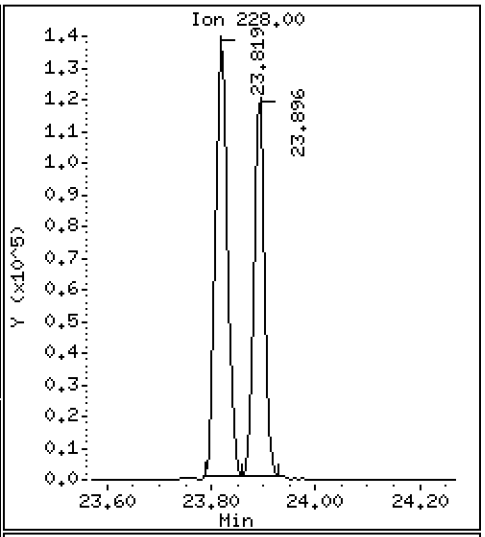
Column phase: ZB-5msi

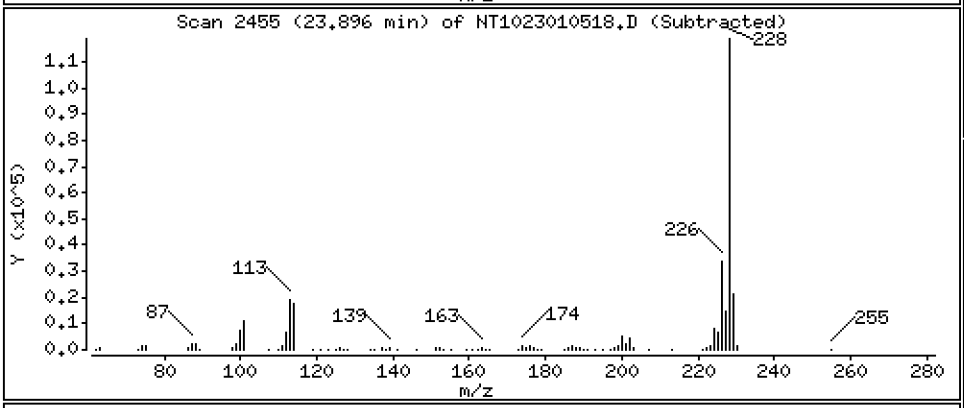
Column diameter: 0.25

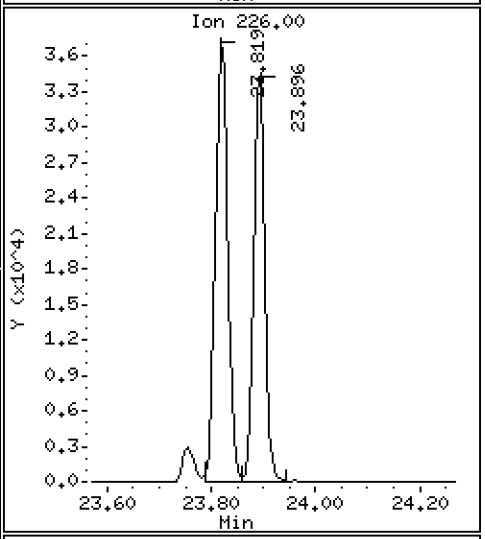
71 Chrysene

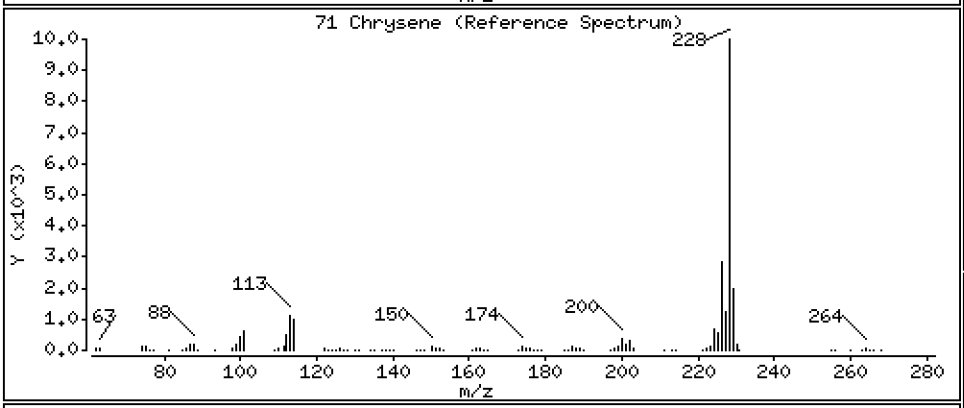
Concentration: 4.668 ug/mL

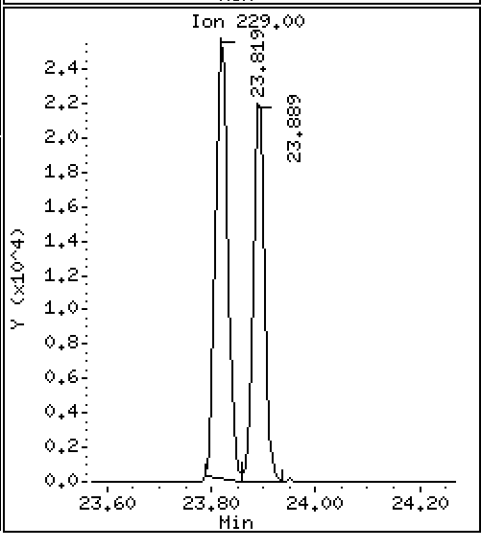


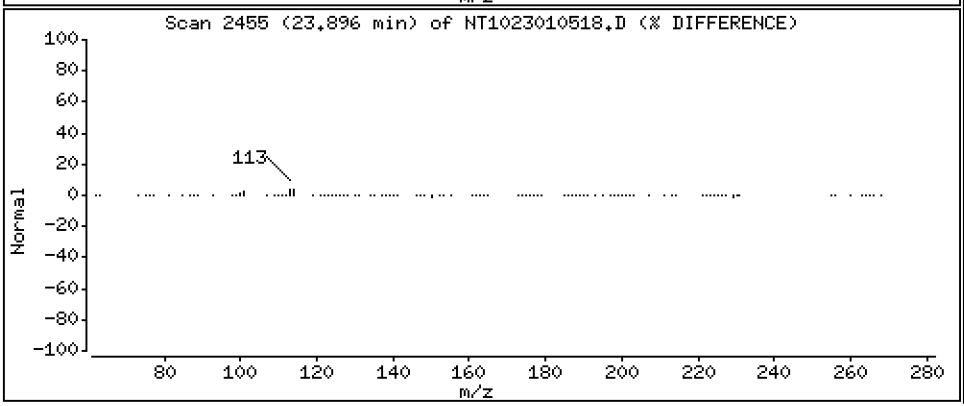












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

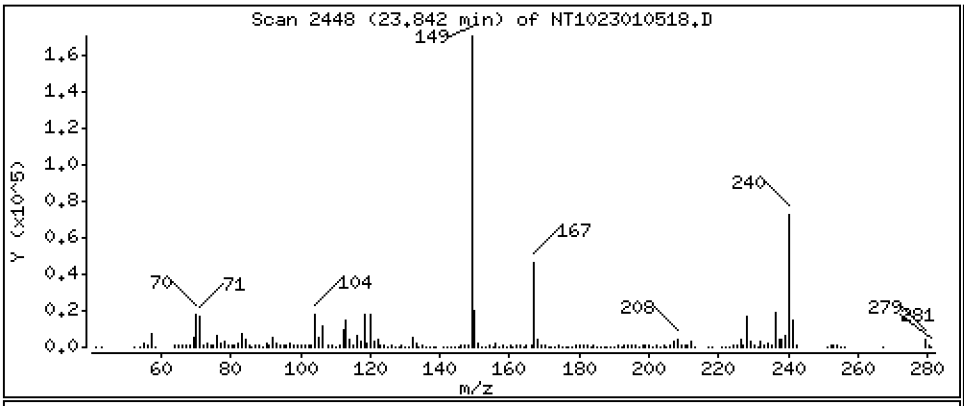
Operator: VTS

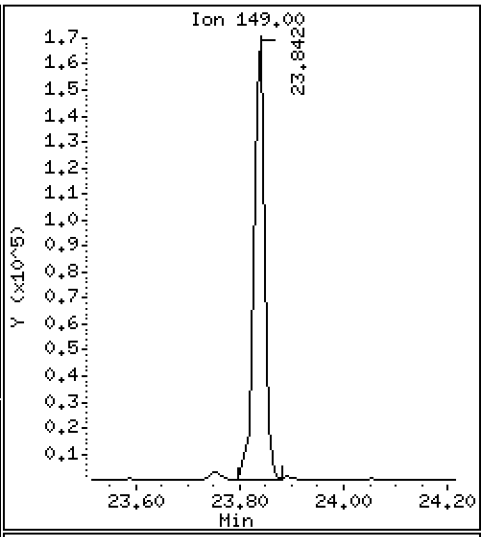
Column phase: ZB-5msi

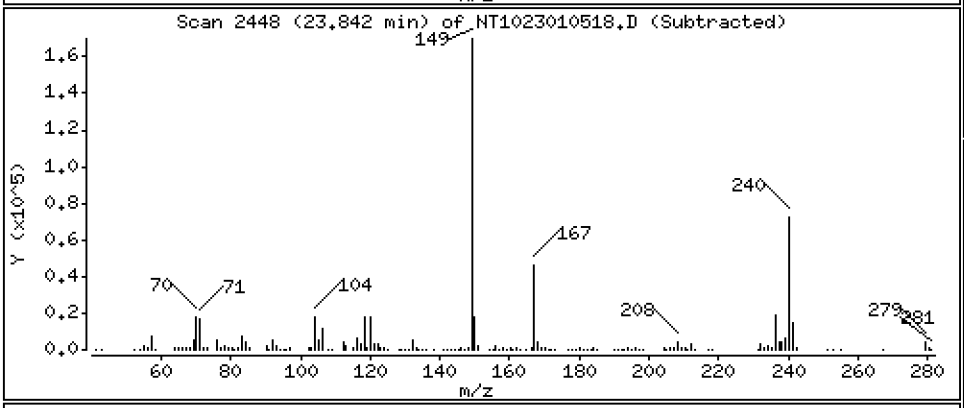
Column diameter: 0.25

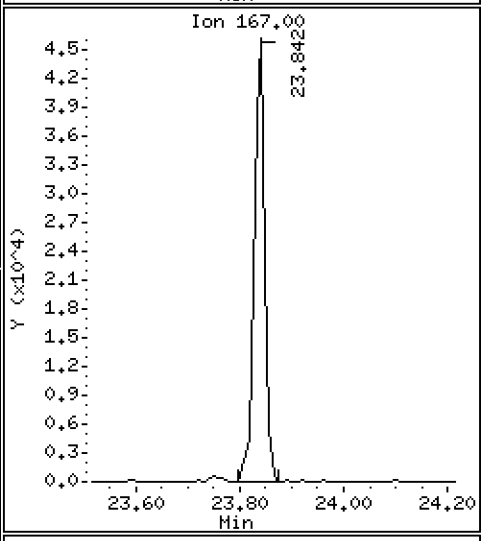
72 bis(2-Ethylhexyl)phthalate

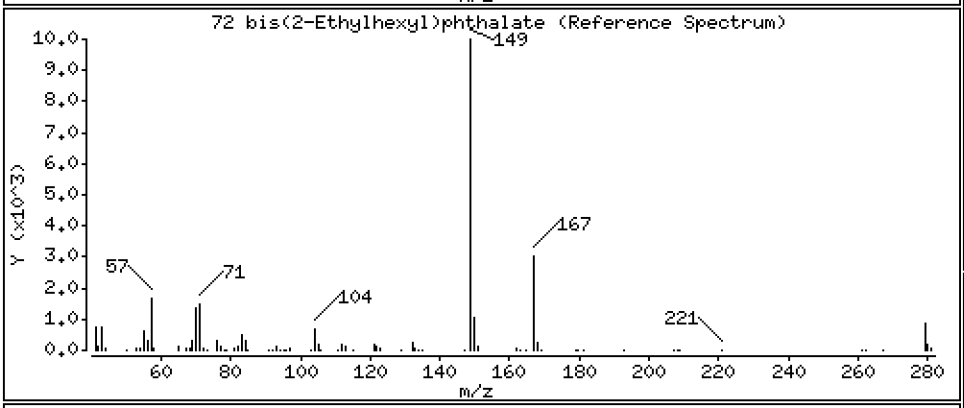
Concentration: 5.100 ug/mL

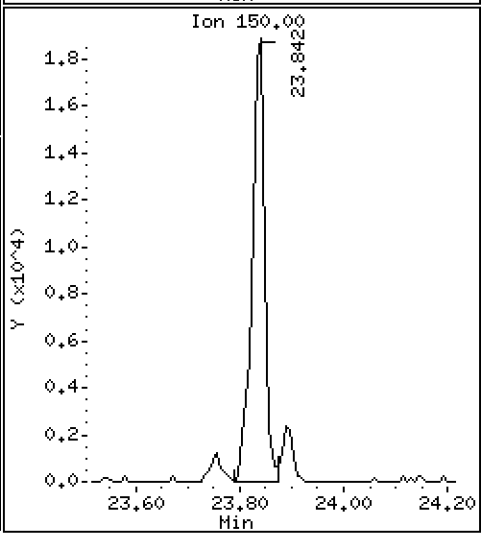


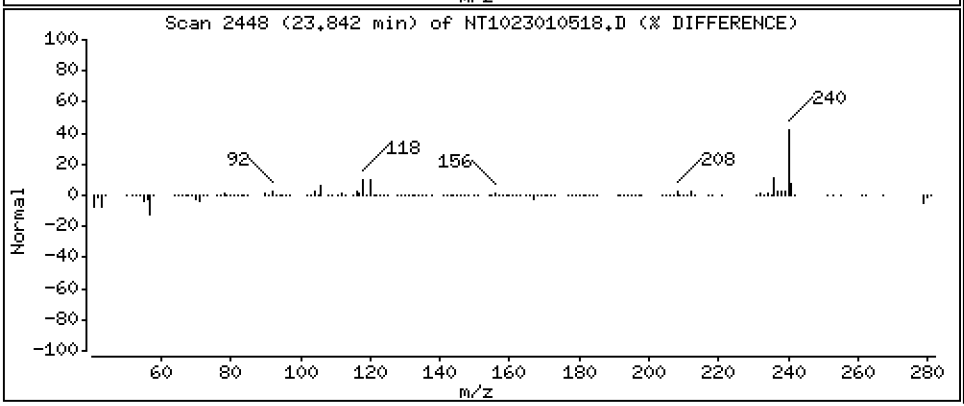












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

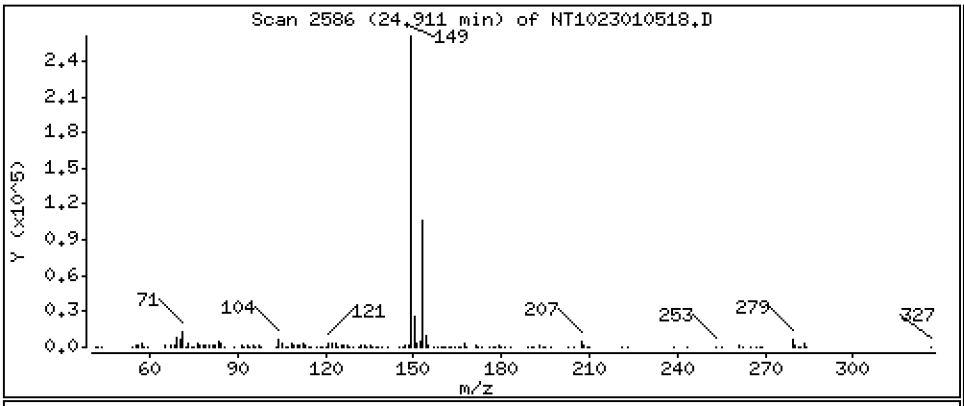
Operator: VTS

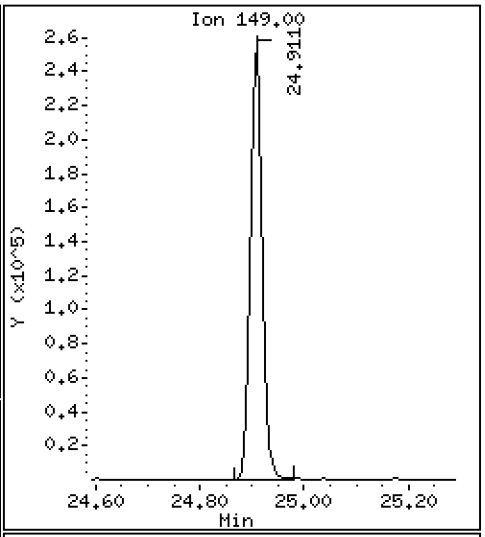
Column phase: ZB-5msi

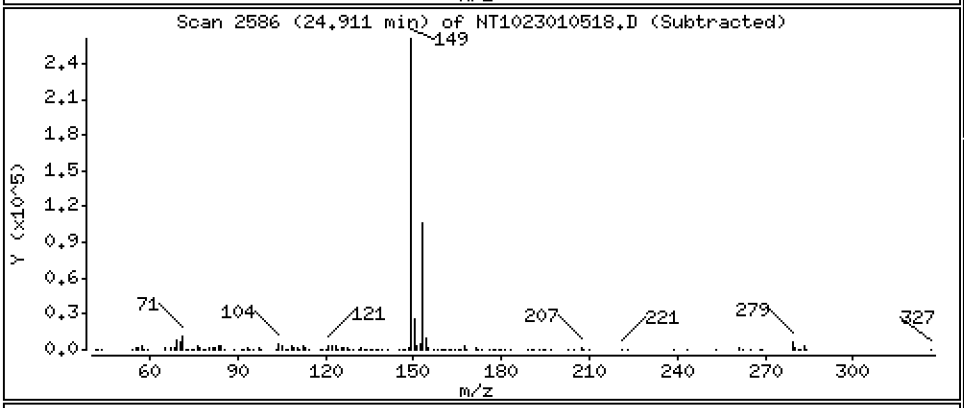
Column diameter: 0.25

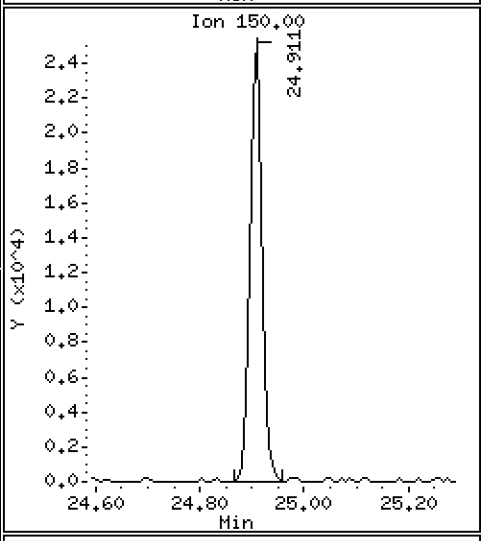
73 Di-n-octylphthalate

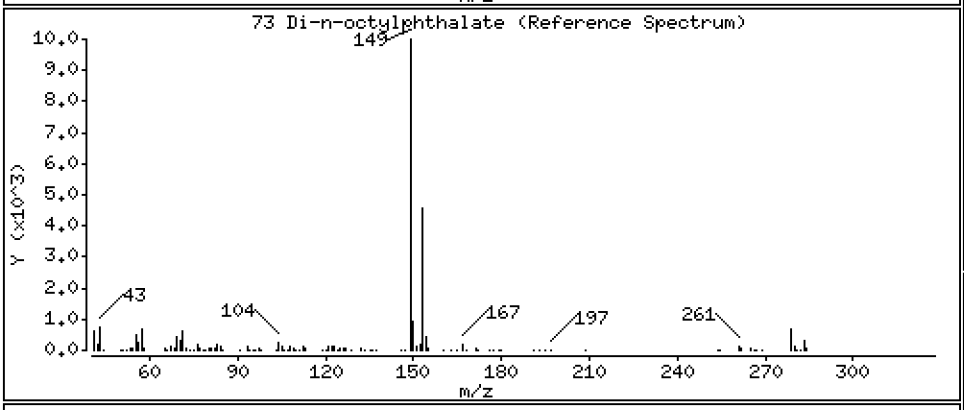
Concentration: 4.755 ug/mL

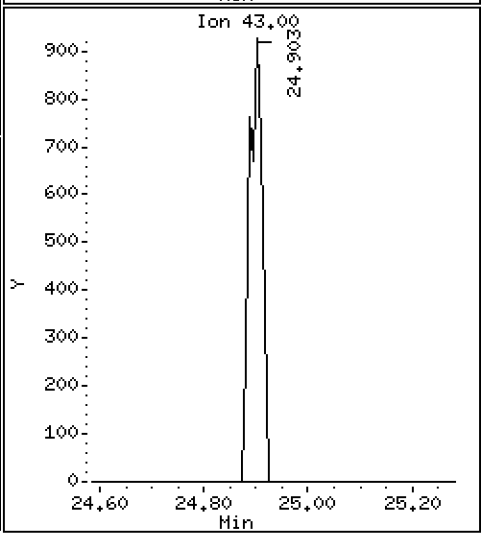


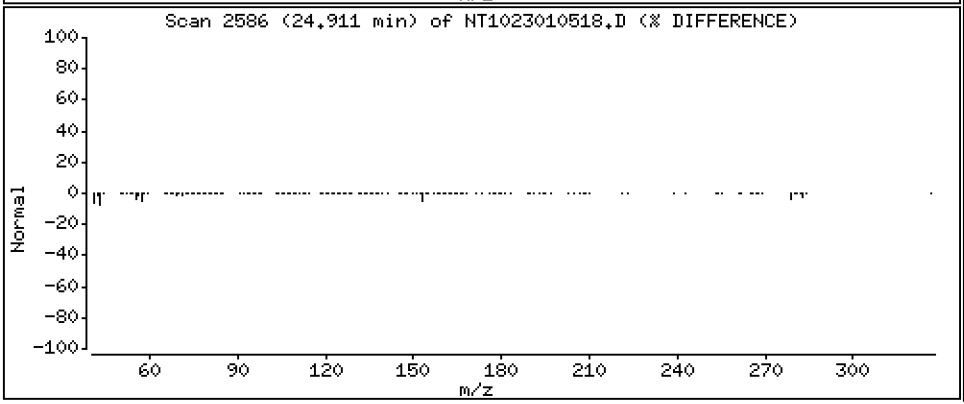












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

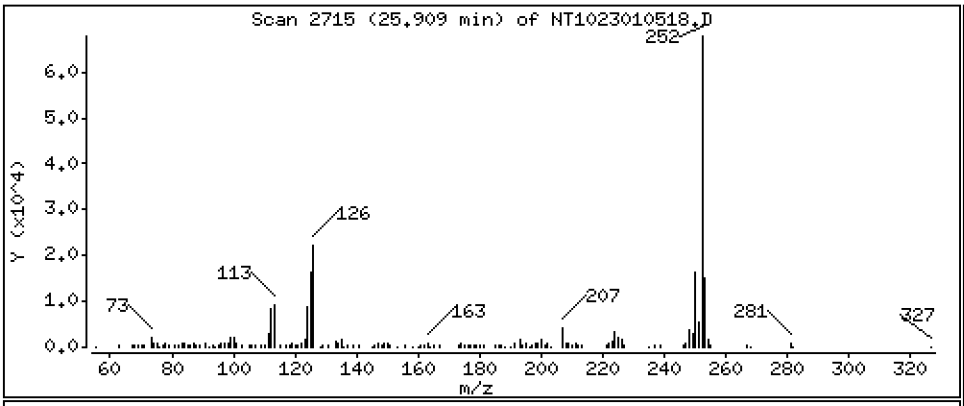
Operator: VTS

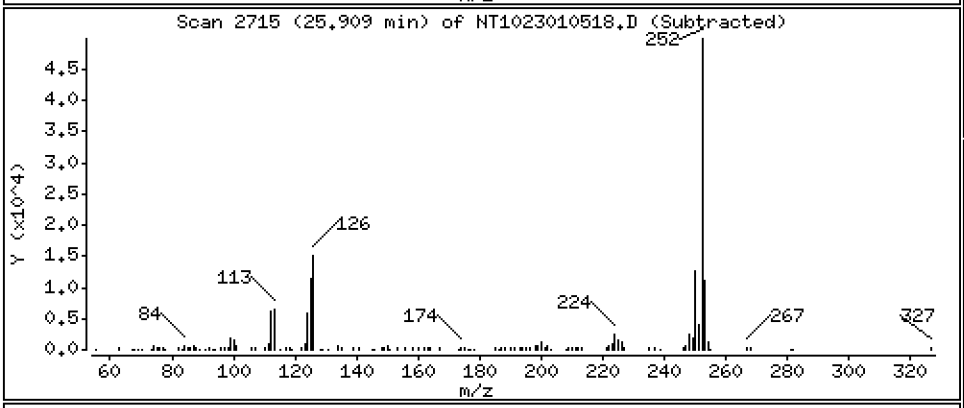
Column phase: ZB-5msi

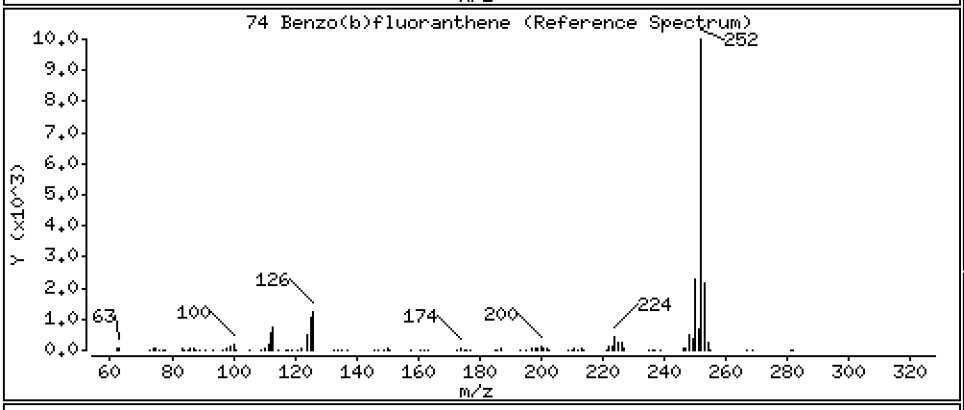
Column diameter: 0.25

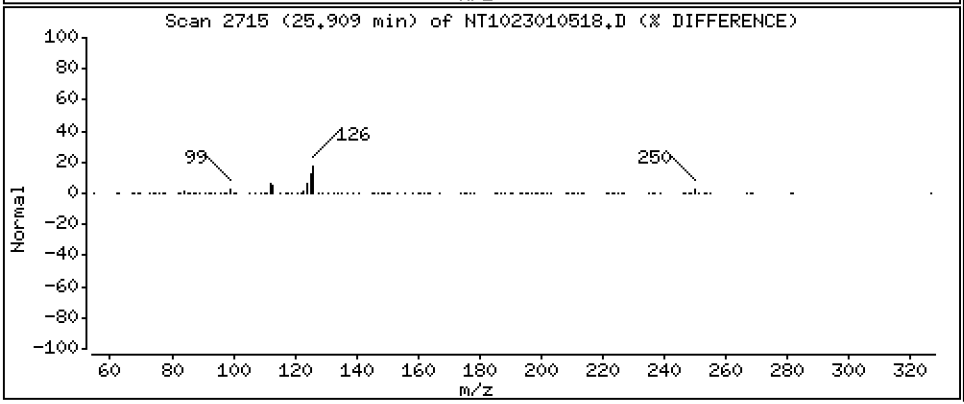
74 Benzo(b)fluoranthene

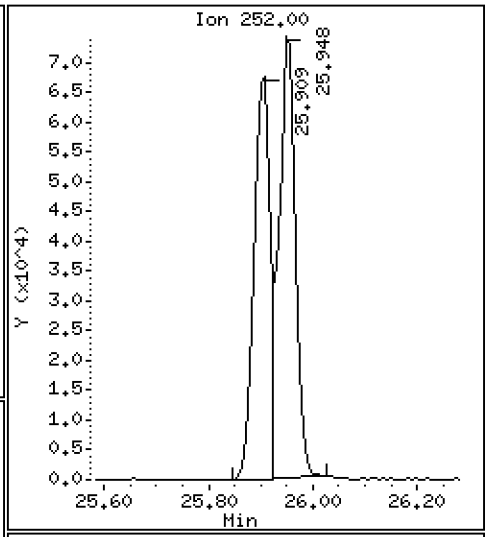
Concentration: 4.616 ug/mL

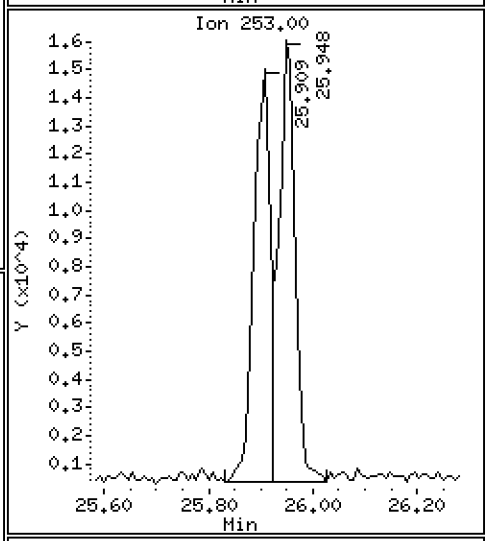


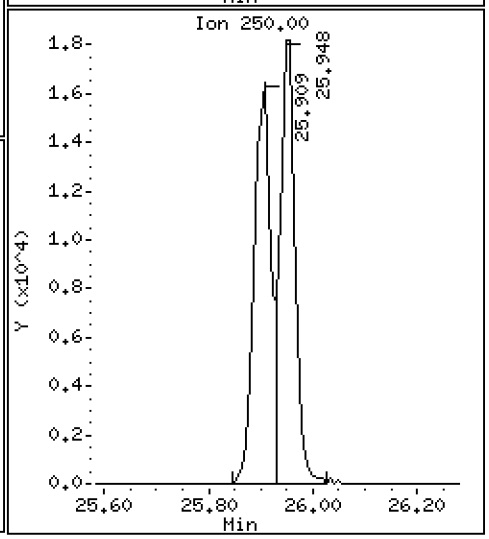












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

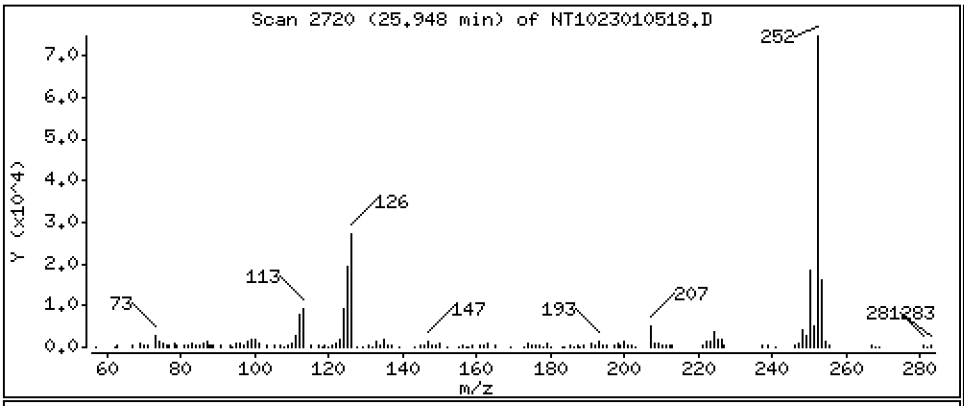
Operator: VTS

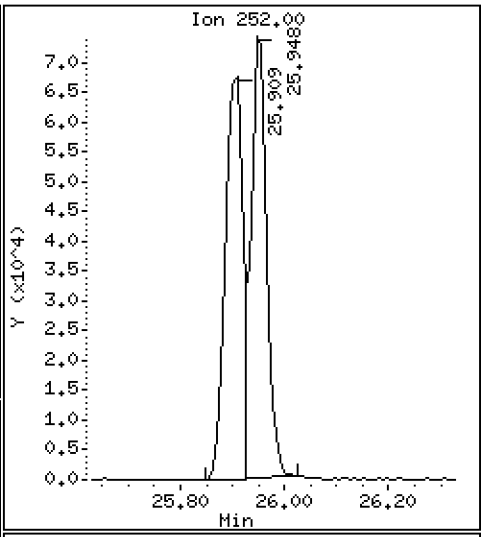
Column phase: ZB-5msi

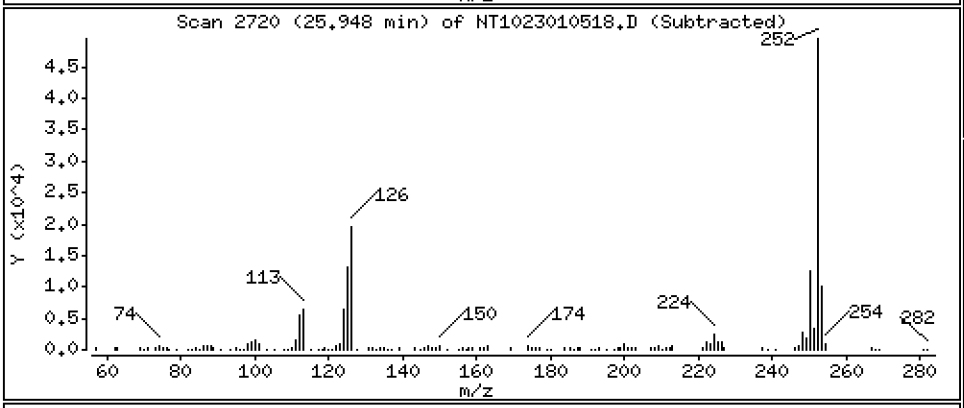
Column diameter: 0.25

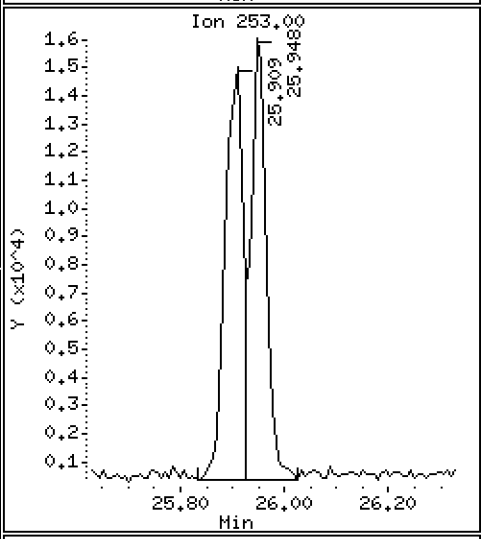
75 Benzo(k)fluoranthene

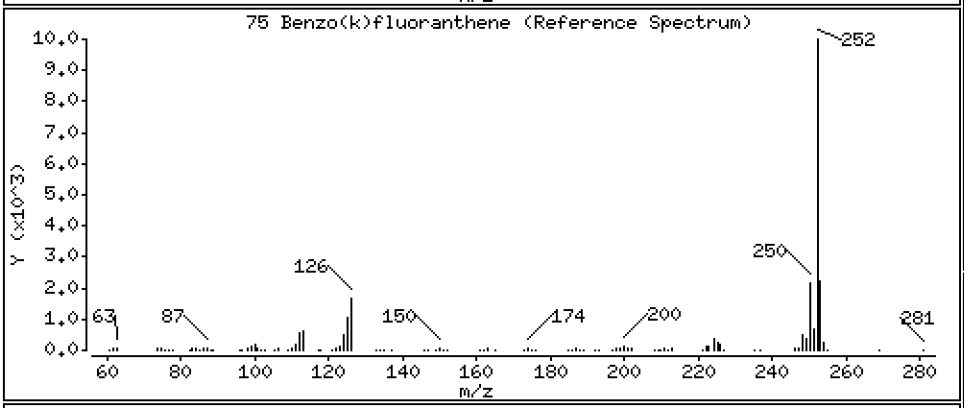
Concentration: 5.158 ug/mL

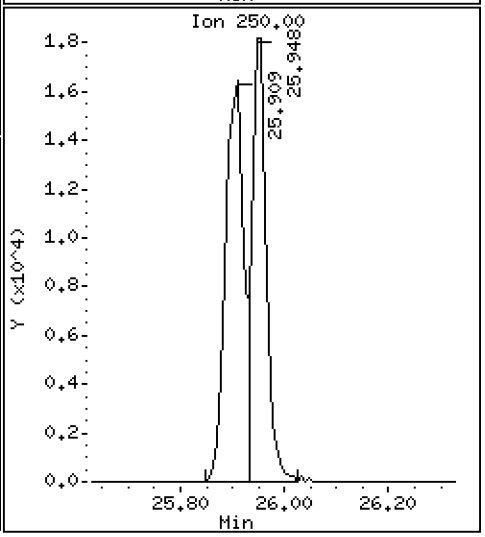


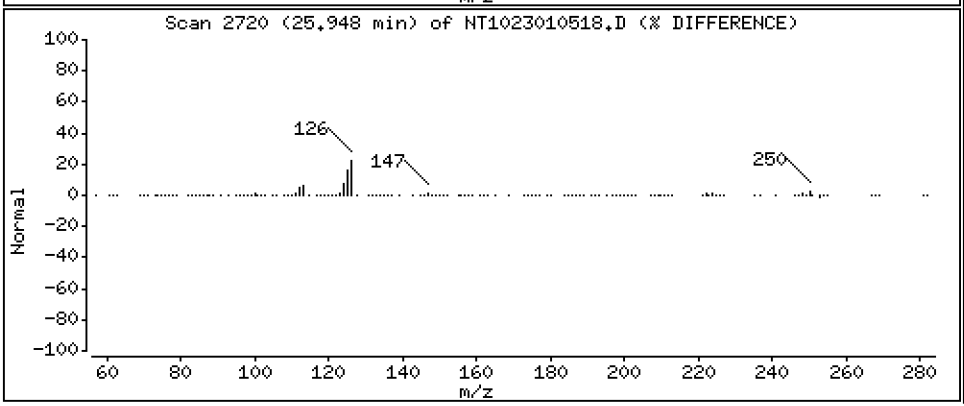












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

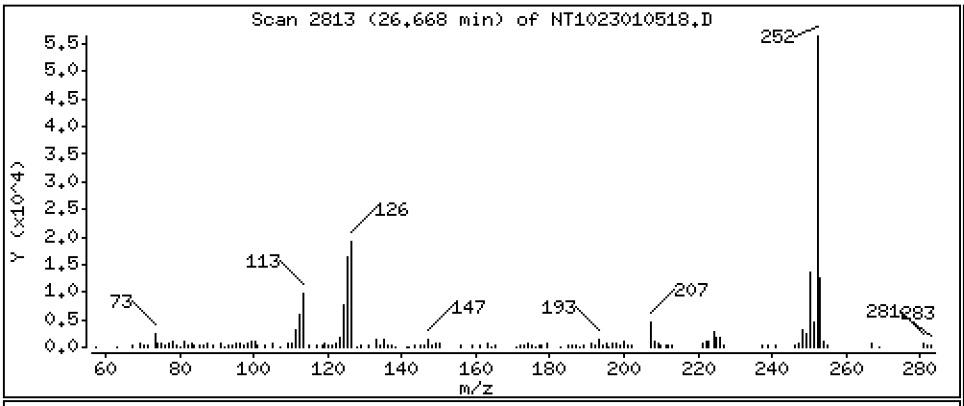
Operator: VTS

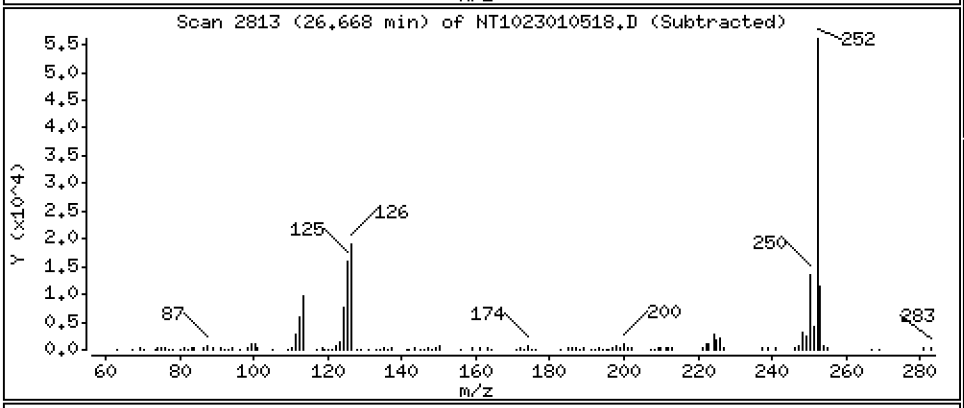
Column phase: ZB-5msi

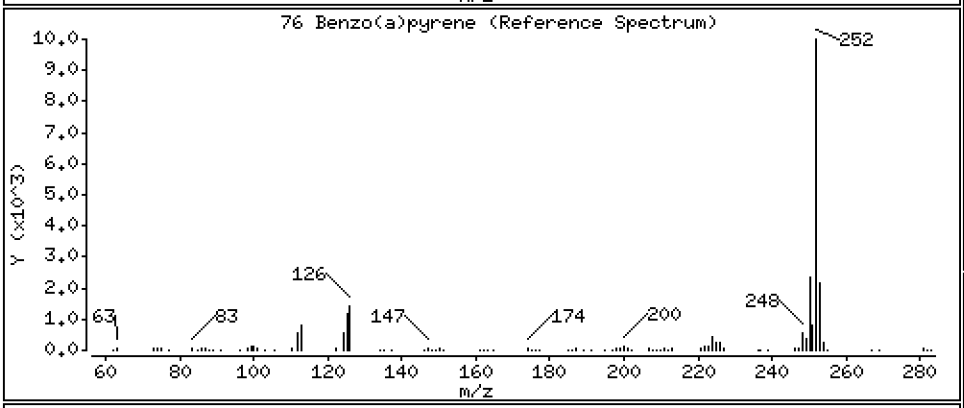
Column diameter: 0.25

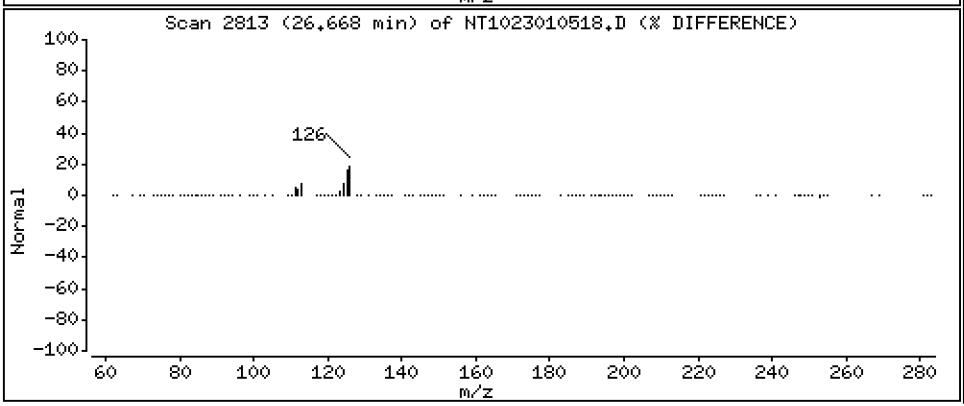
76 Benzo(a)pyrene

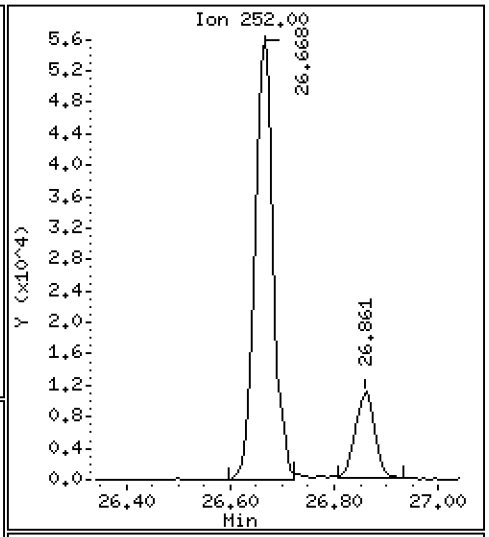
Concentration: 4.840 ug/mL

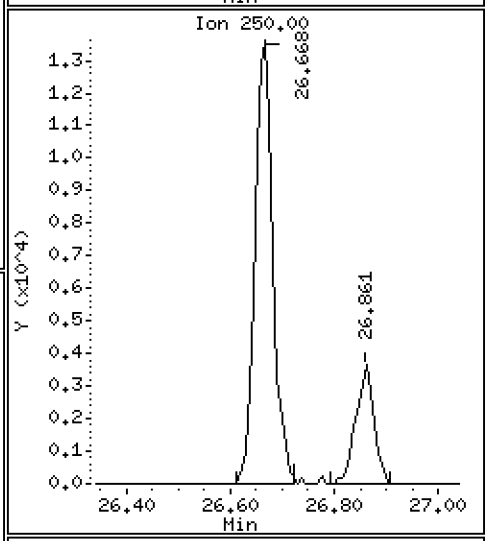


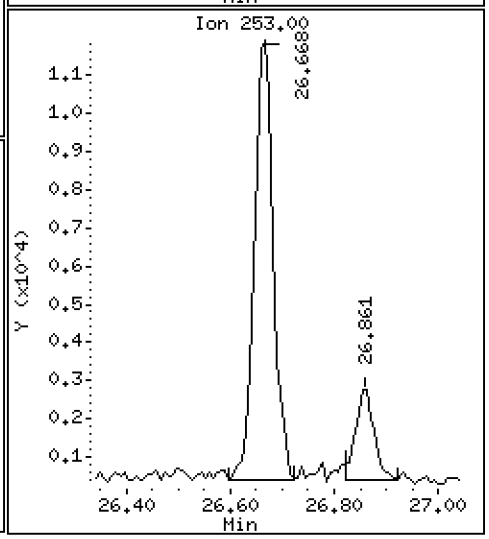












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

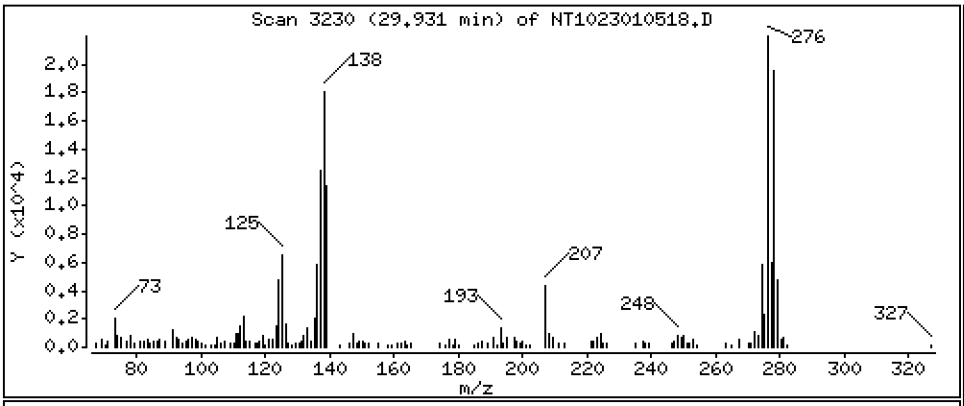
Operator: VTS

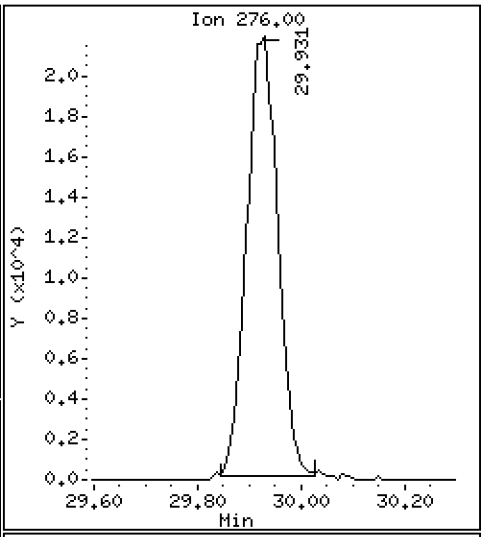
Column phase: ZB-5msi

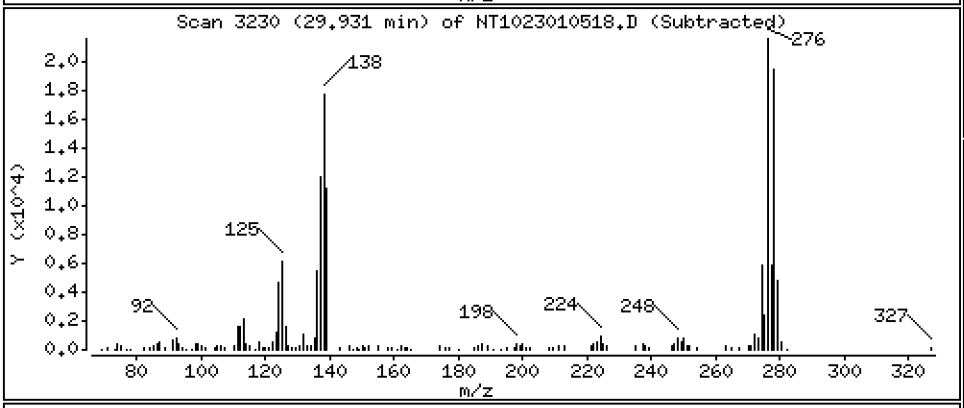
Column diameter: 0.25

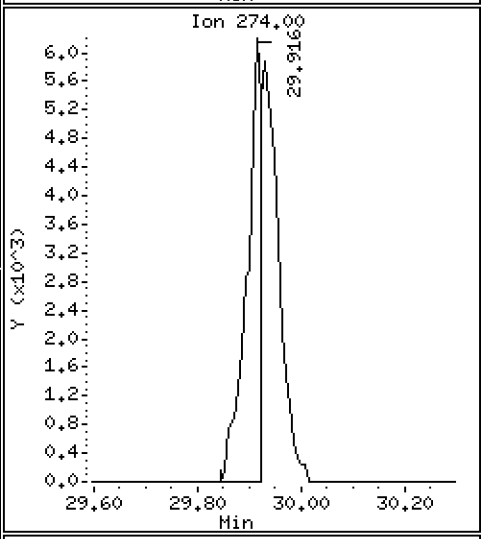
78 Indeno(1,2,3-cd)pyrene

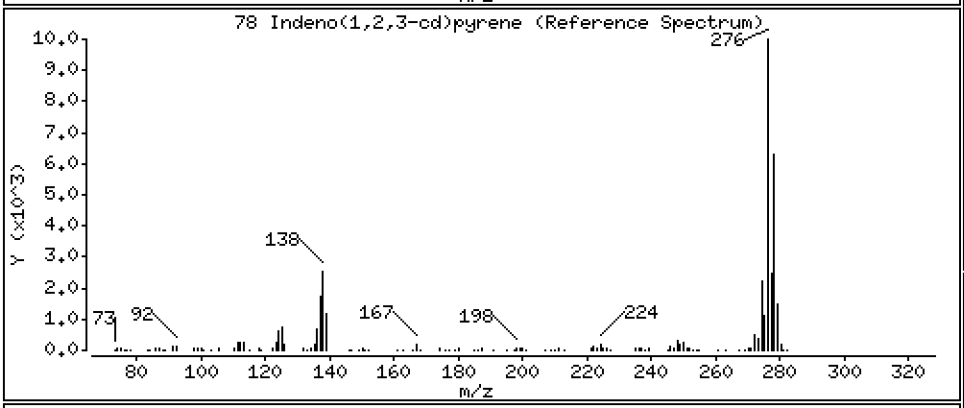
Concentration: 3.619 ug/mL

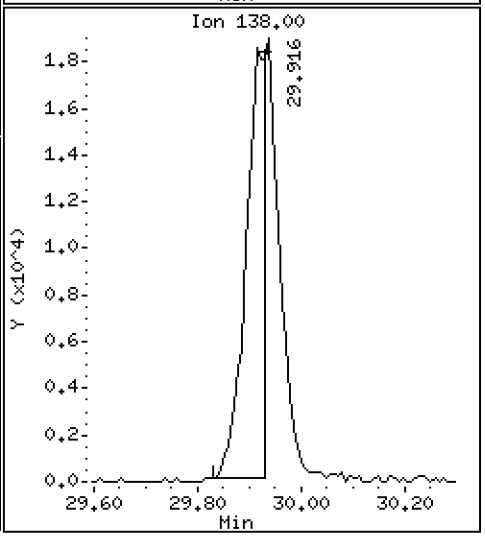


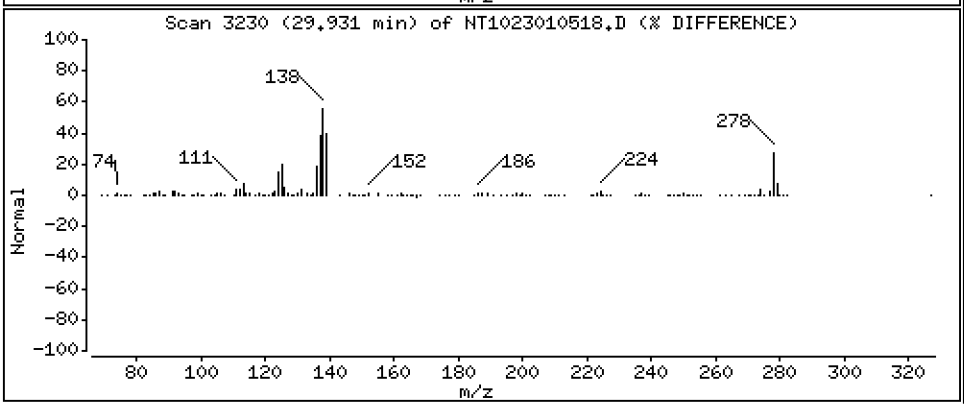












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

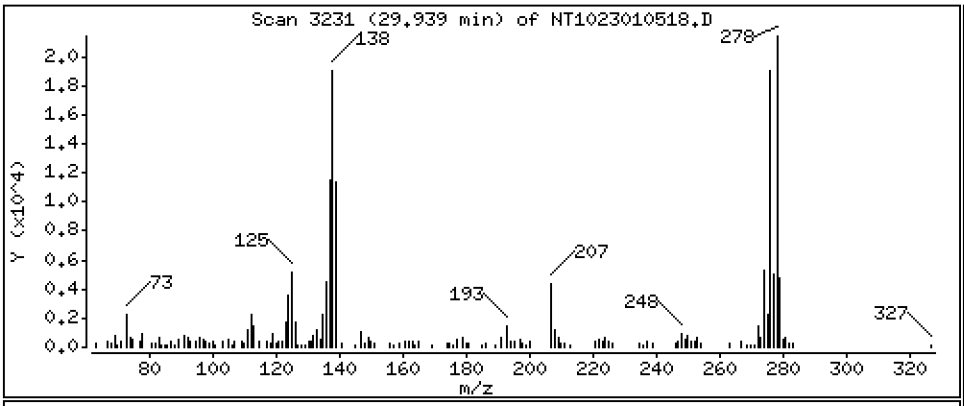
Operator: VTS

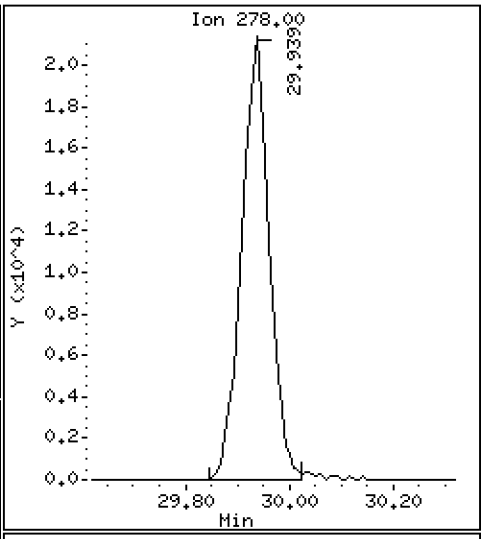
Column phase: ZB-5msi

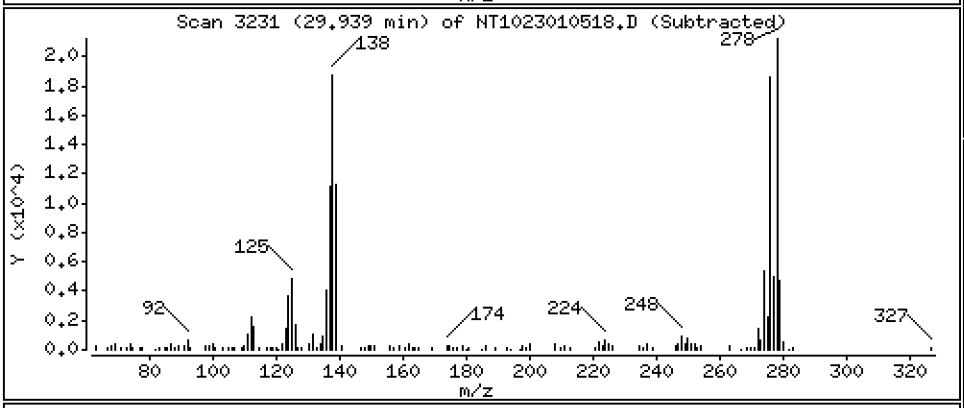
Column diameter: 0.25

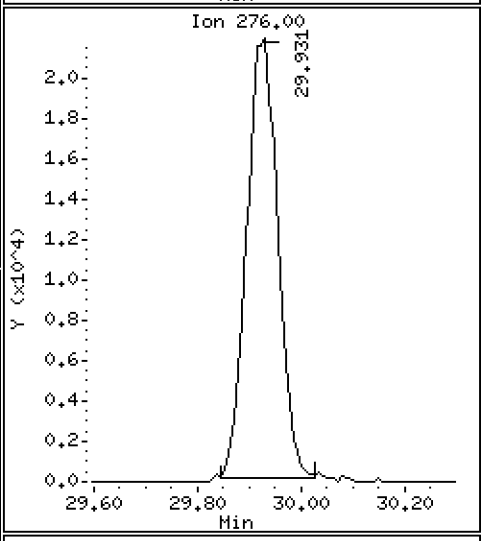
79 Dibenzo(a,h)anthracene

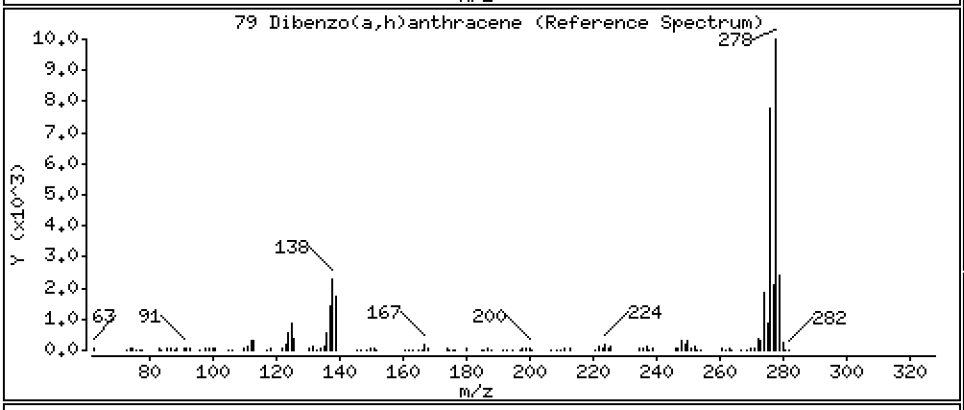
Concentration: 4.053 ug/mL

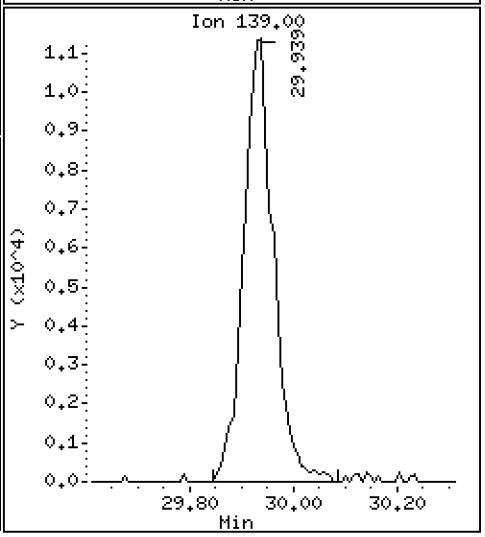


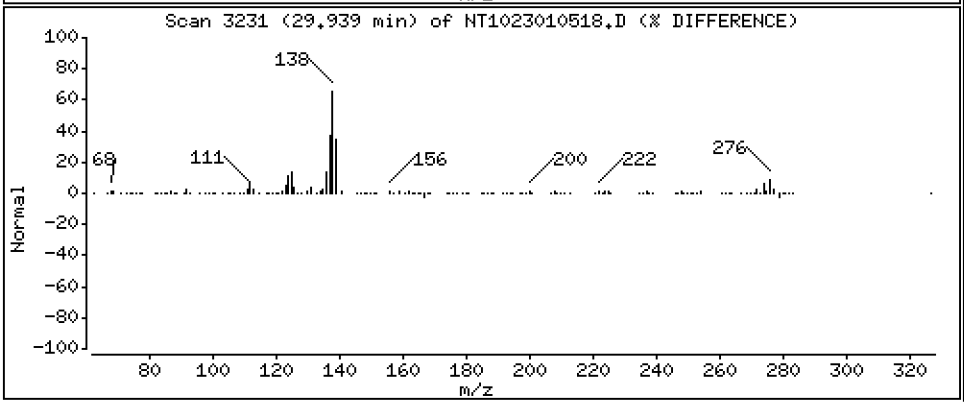












Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

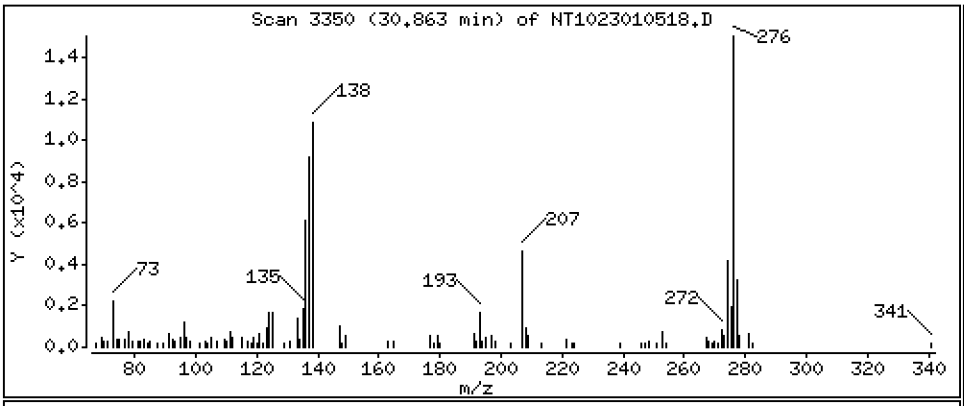
Operator: VTS

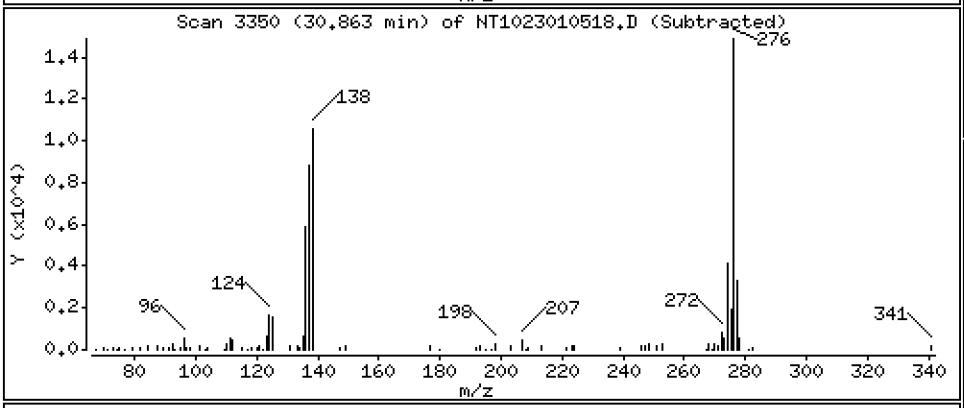
Column phase: ZB-5msi

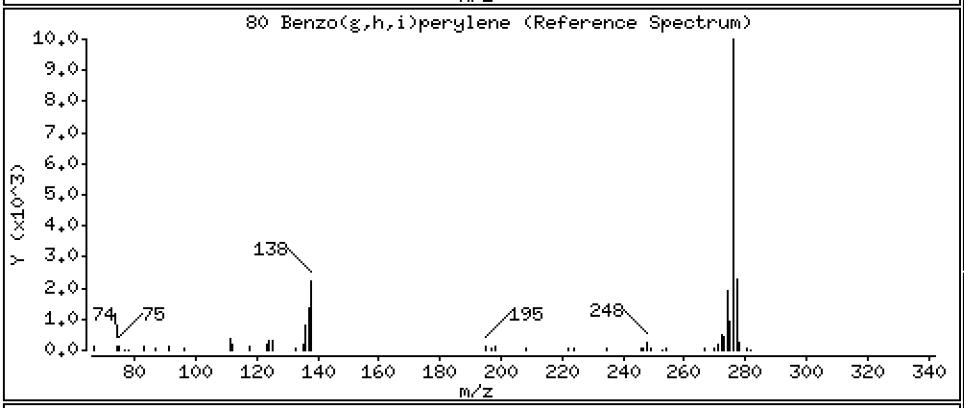
Column diameter: 0.25

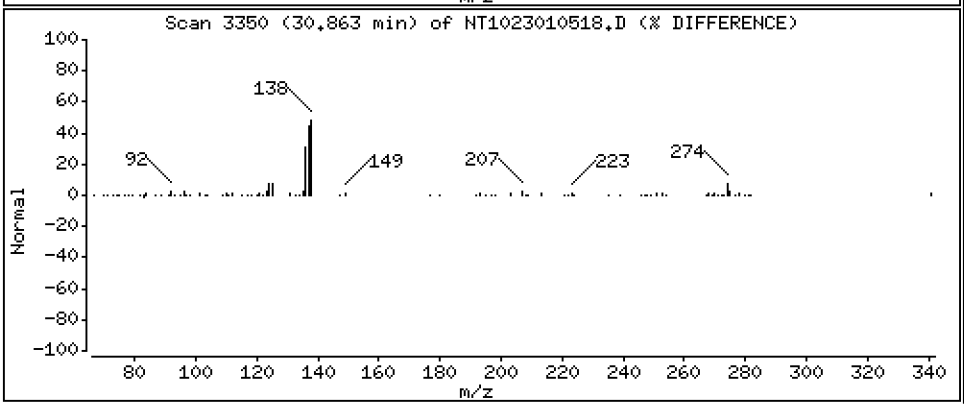
80 Benzo(g,h,i)perylene

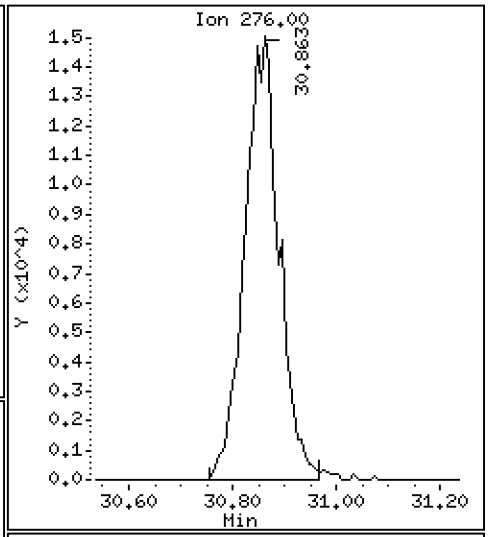
Concentration: 3.367 ug/mL

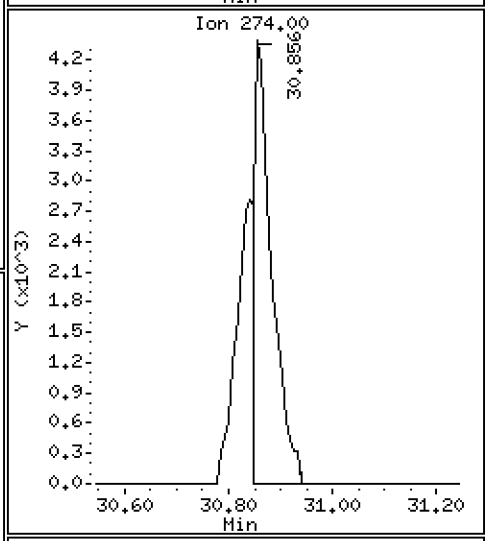


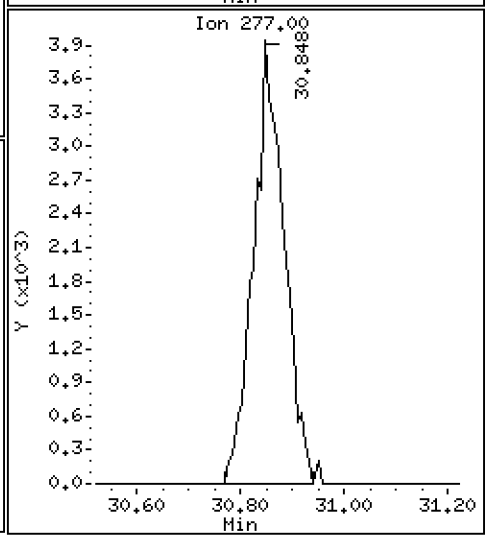












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

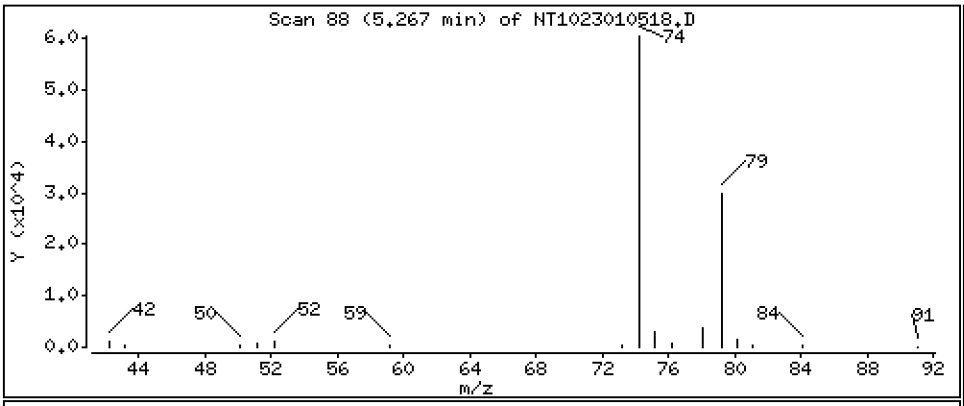
Operator: VTS

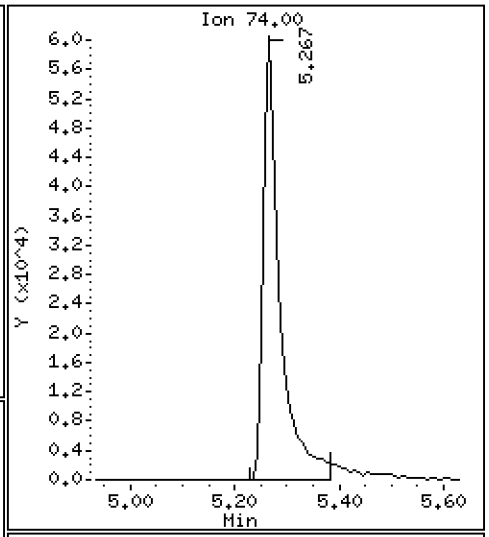
Column phase: ZB-5msi

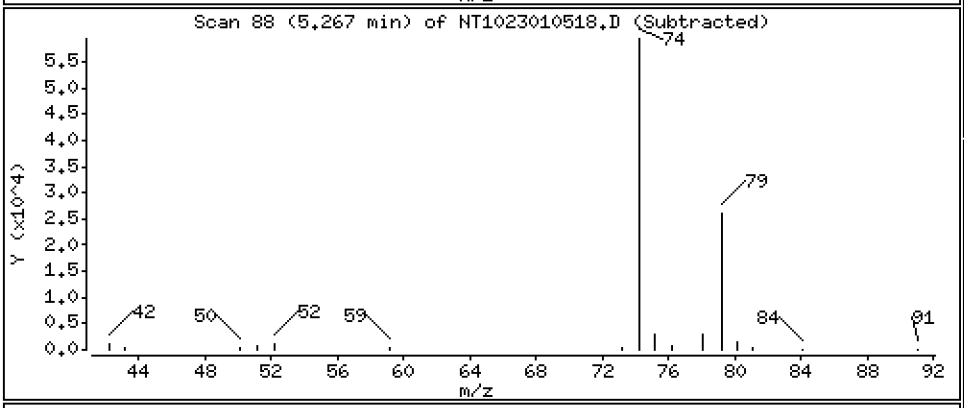
Column diameter: 0.25

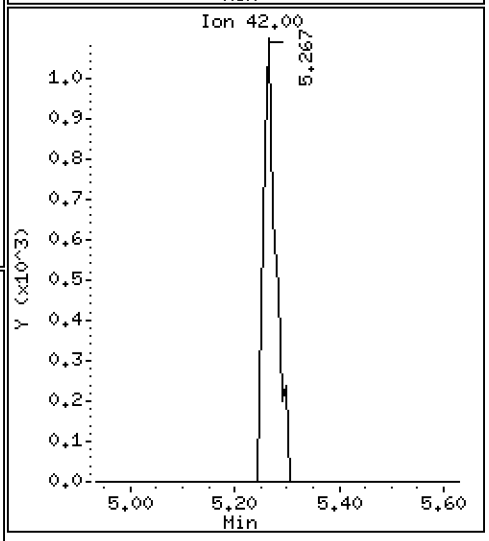
90 N-Nitrosodimethylamine

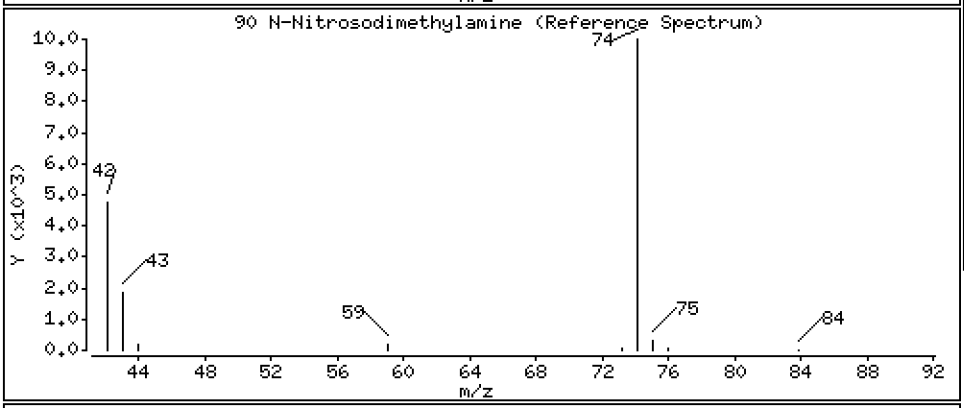
Concentration: 9.700 ug/mL

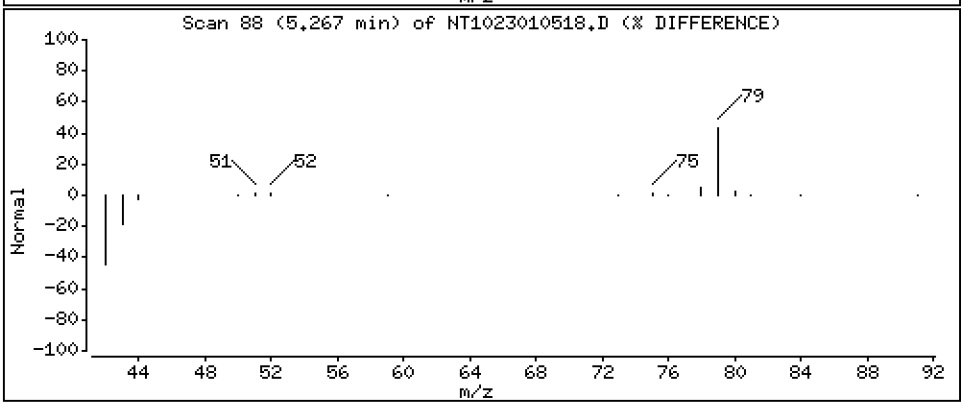












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

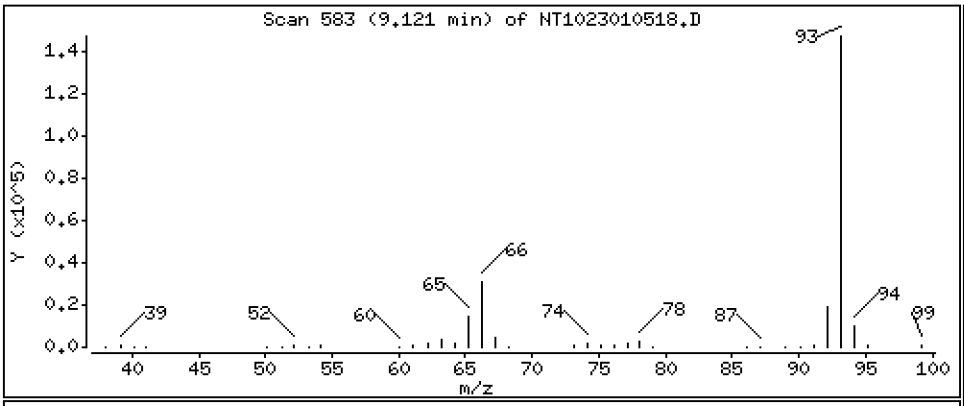
Operator: VTS

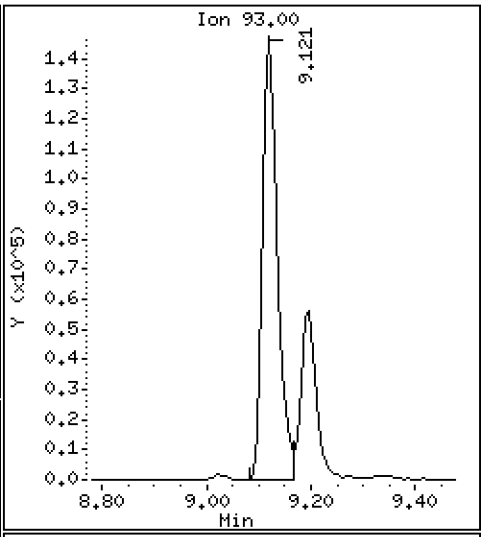
Column phase: ZB-5msi

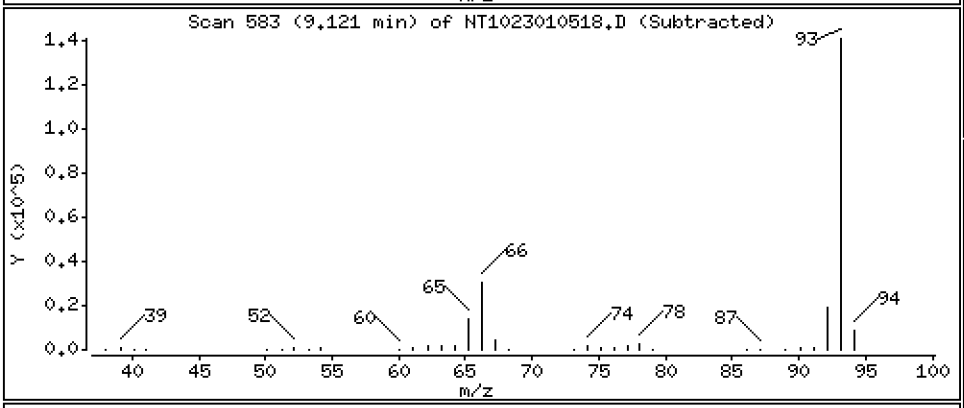
Column diameter: 0.25

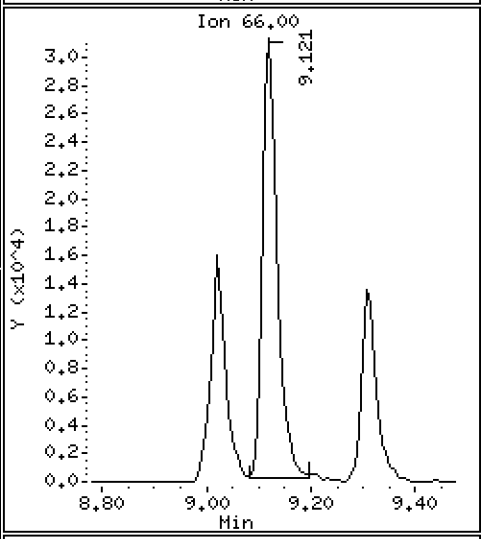
91 Aniline

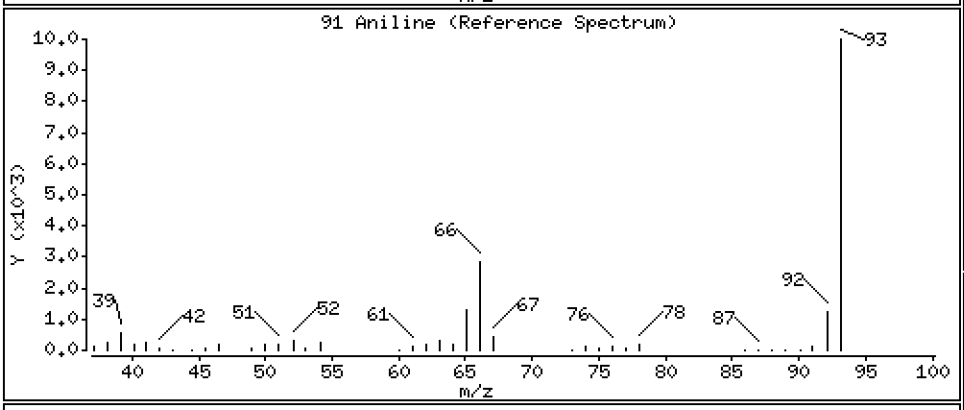
Concentration: 10.60 ug/mL

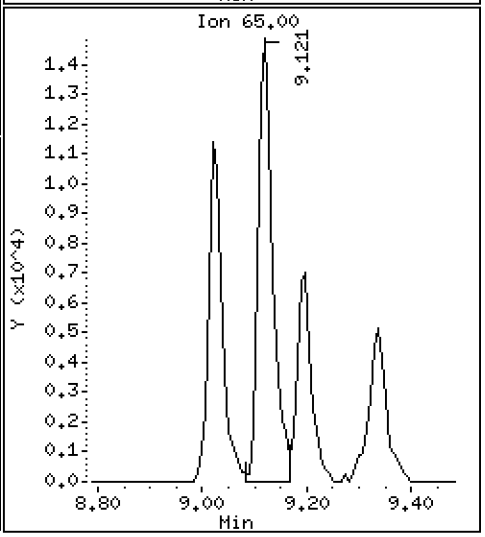


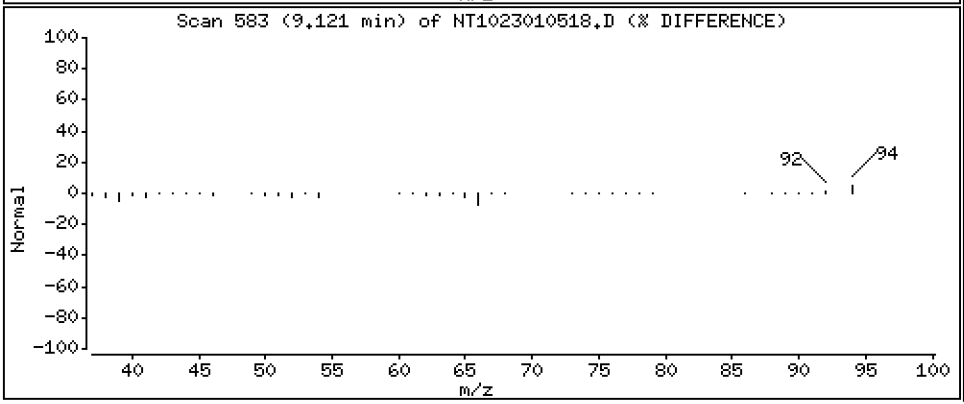












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

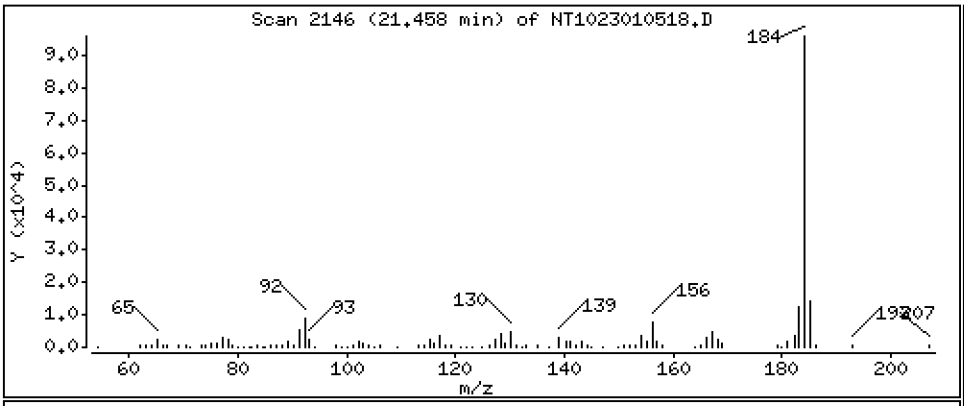
Operator: VTS

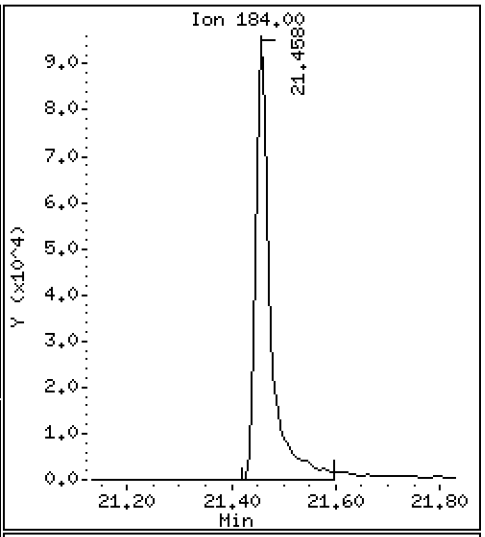
Column phase: ZB-5msi

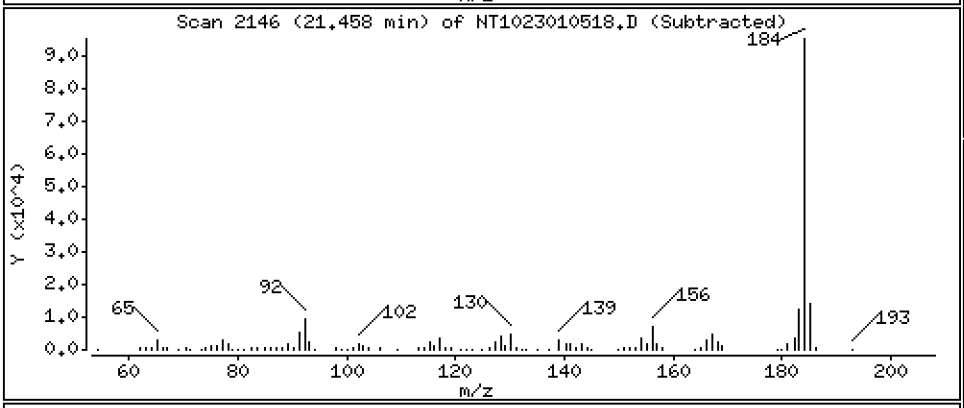
Column diameter: 0.25

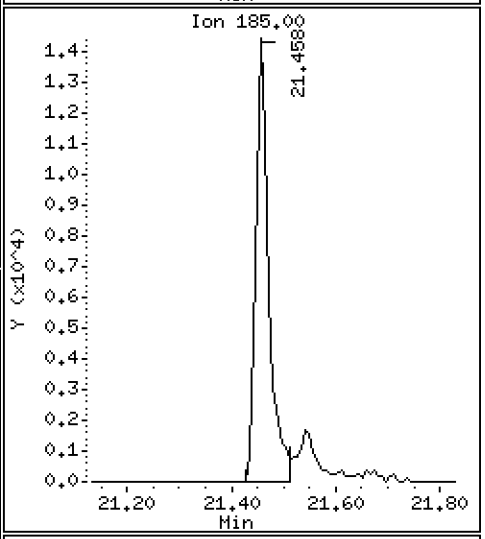
93 Benzidine

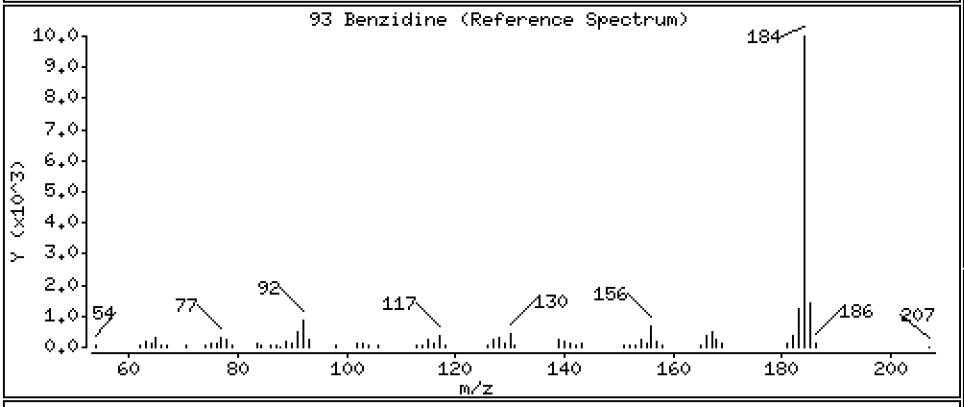
Concentration: 6.703 ug/mL

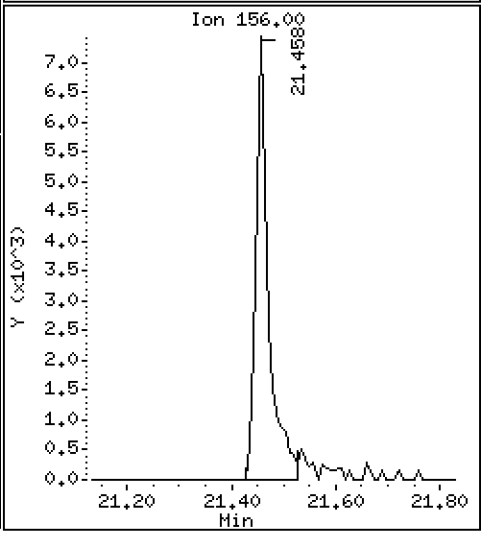


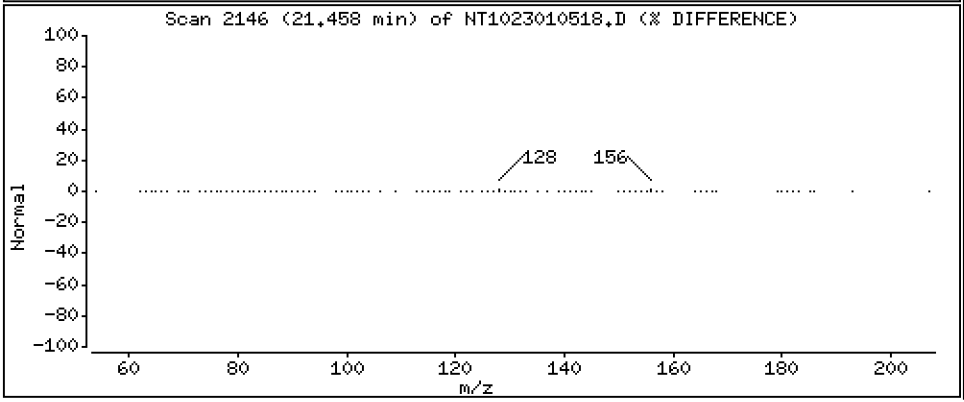












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

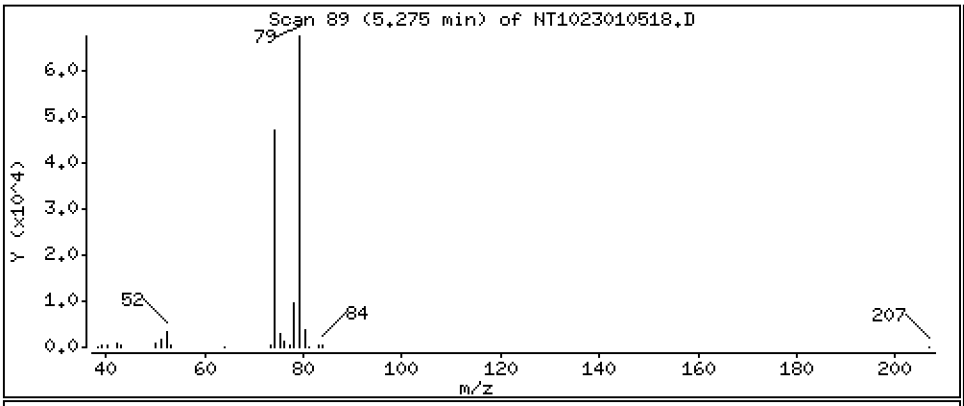
Operator: VTS

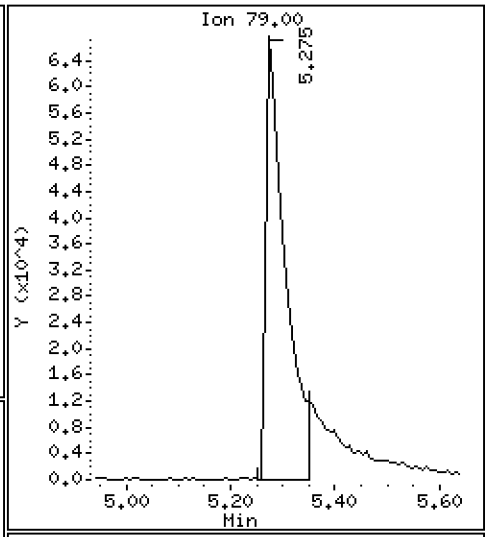
Column phase: ZB-5msi

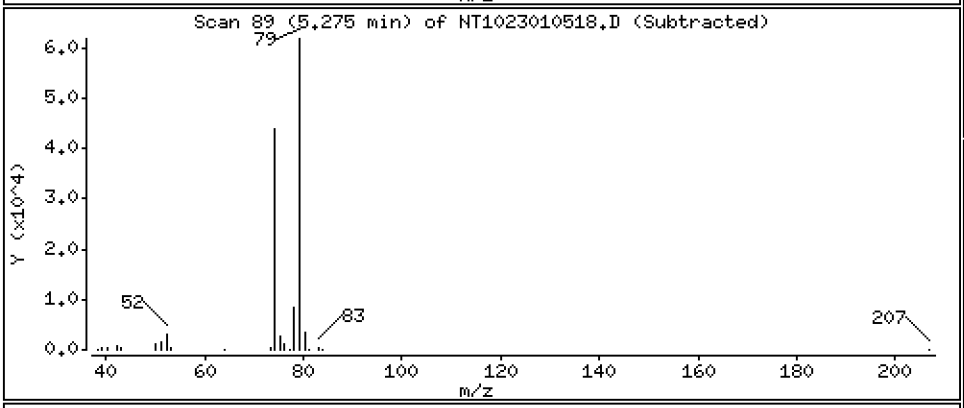
Column diameter: 0.25

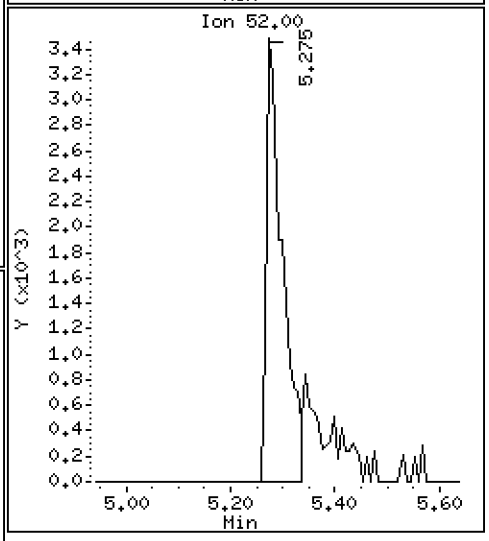
103 Pyridine

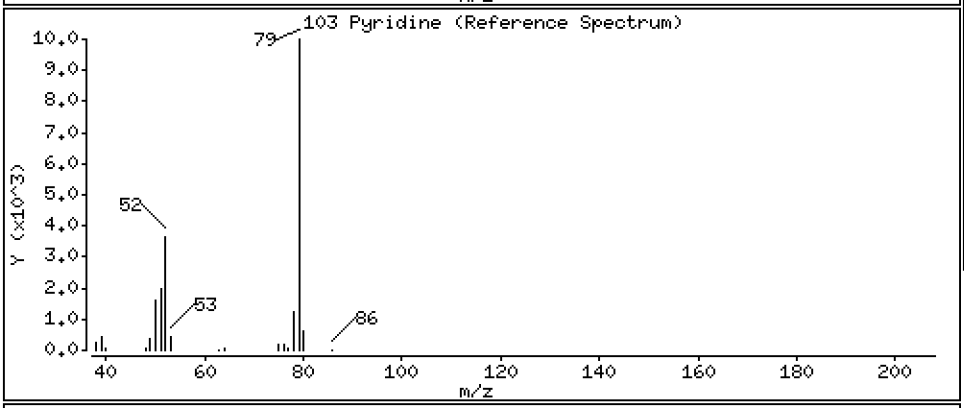
Concentration: 4.261 ug/mL

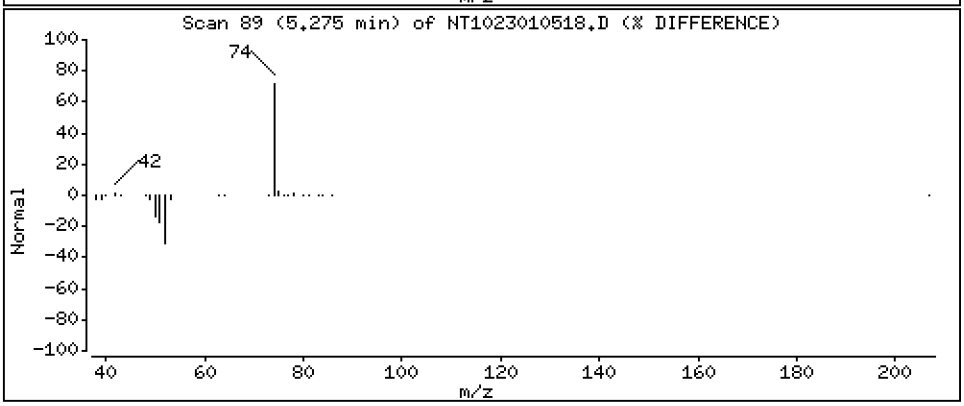












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

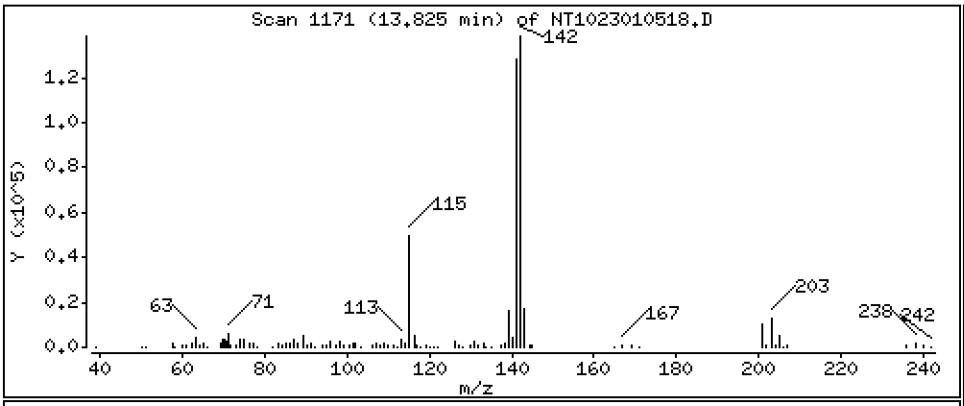
Operator: VTS

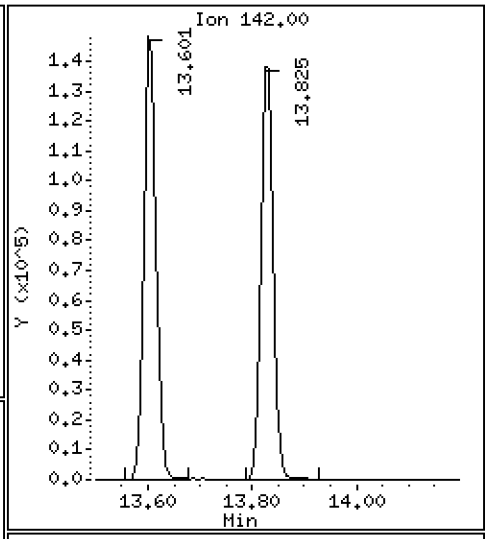
Column phase: ZB-5msi

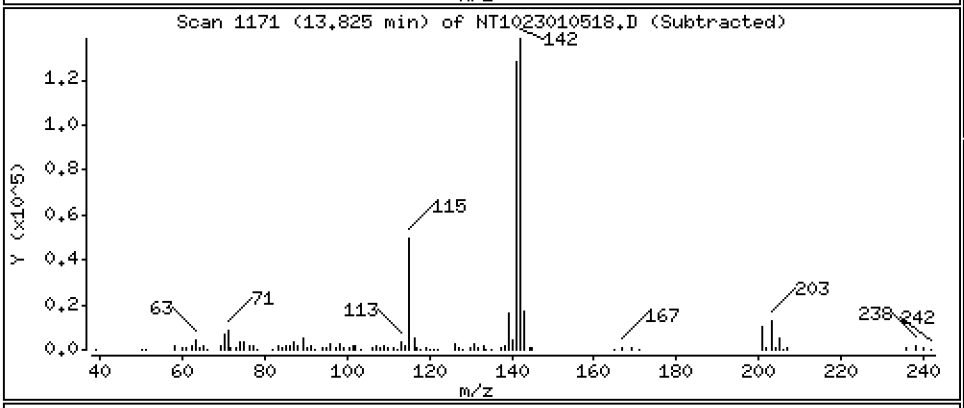
Column diameter: 0.25

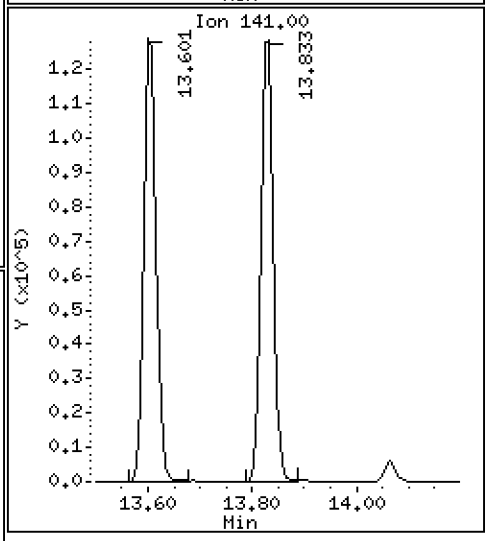
105 1-methylnaphthalene

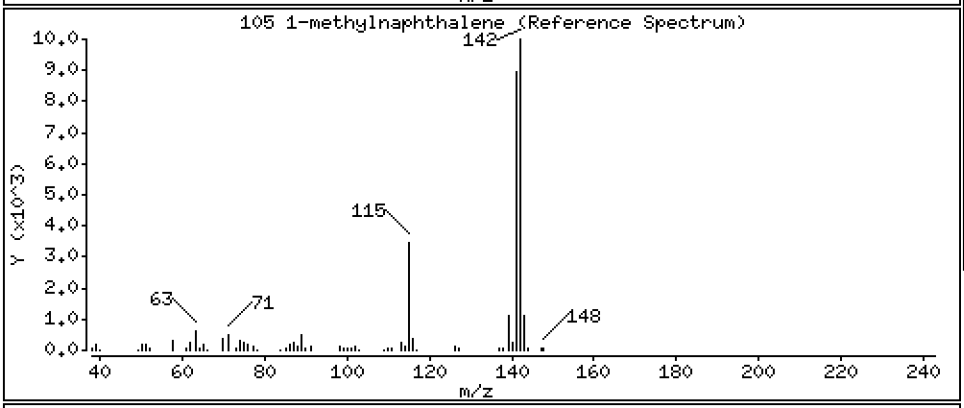
Concentration: 4.901 ug/mL

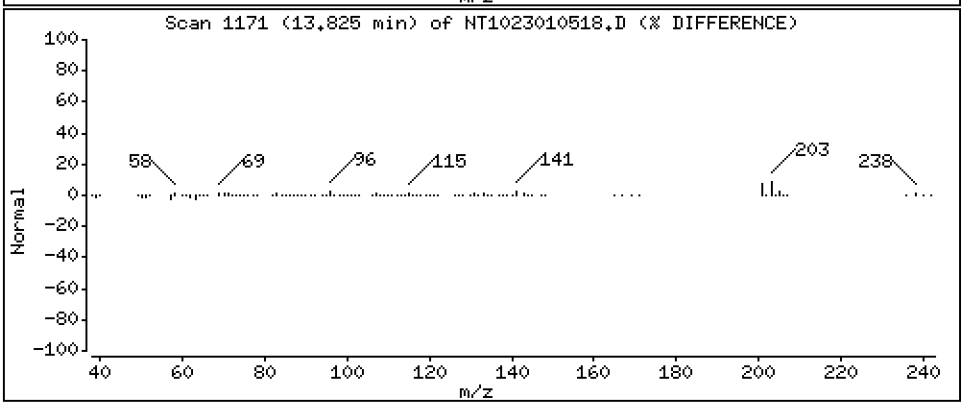












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

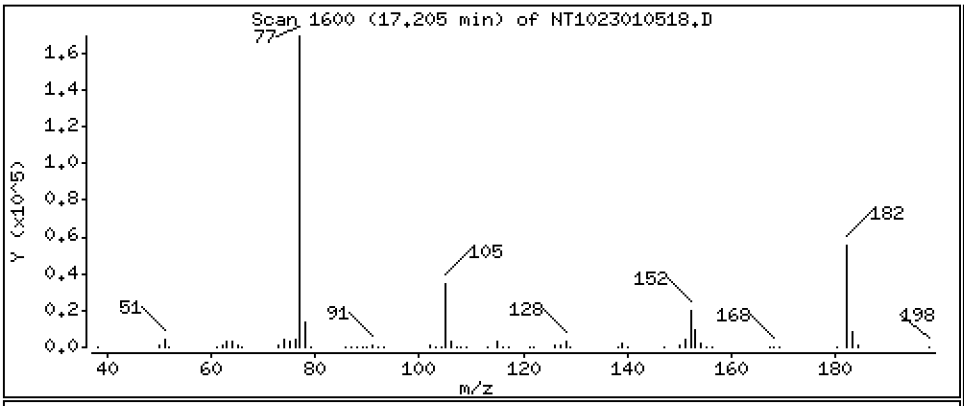
Operator: VTS

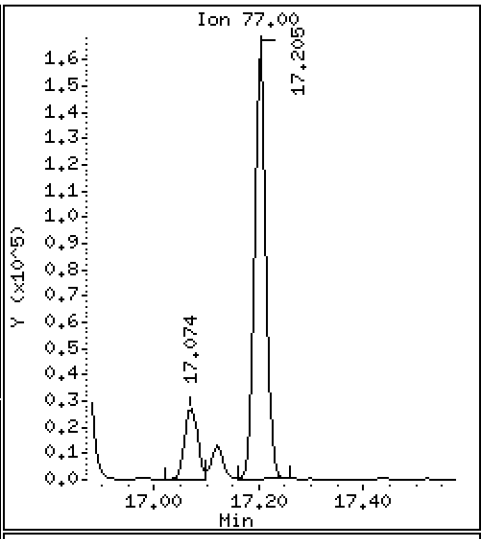
Column phase: ZB-5msi

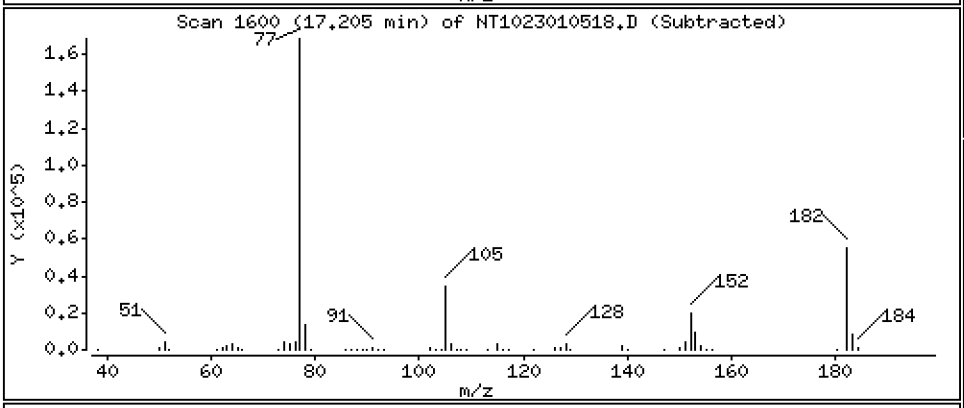
Column diameter: 0.25

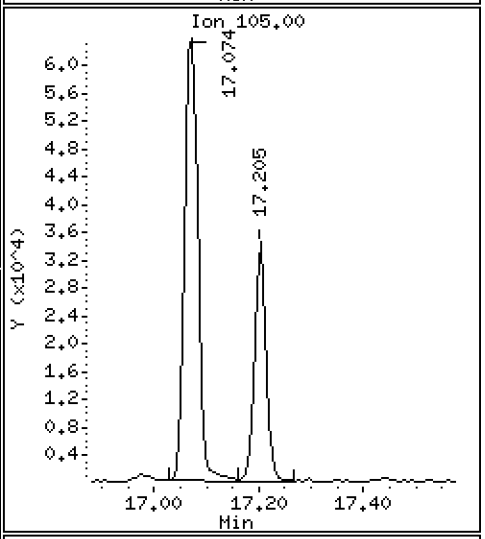
111 Azobenzene (1,2-DP-Hydrazine)

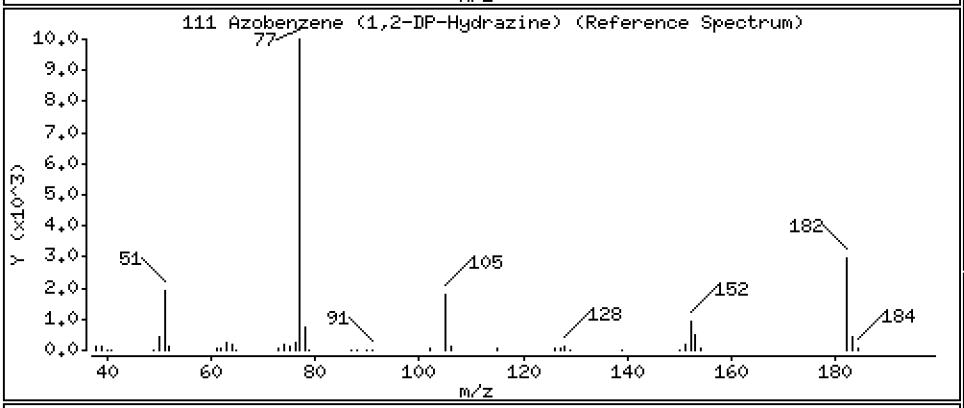
Concentration: 4.919 ug/mL

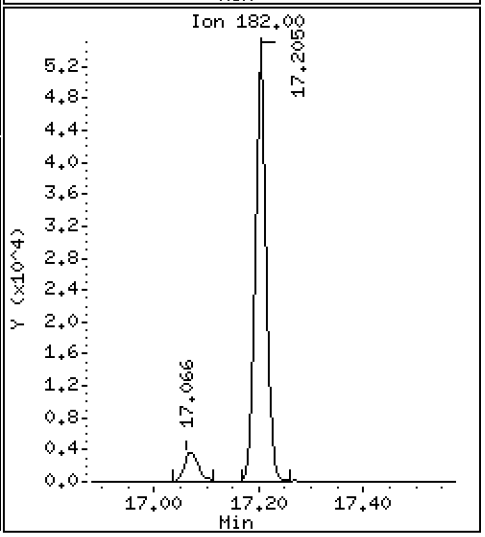


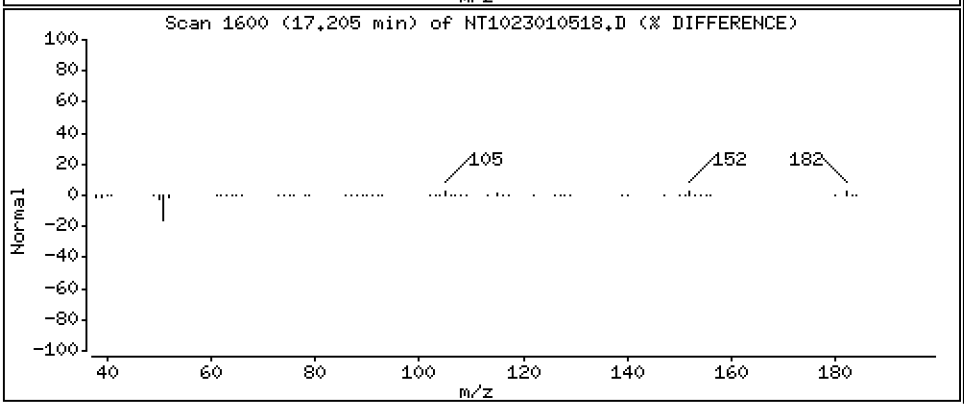












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

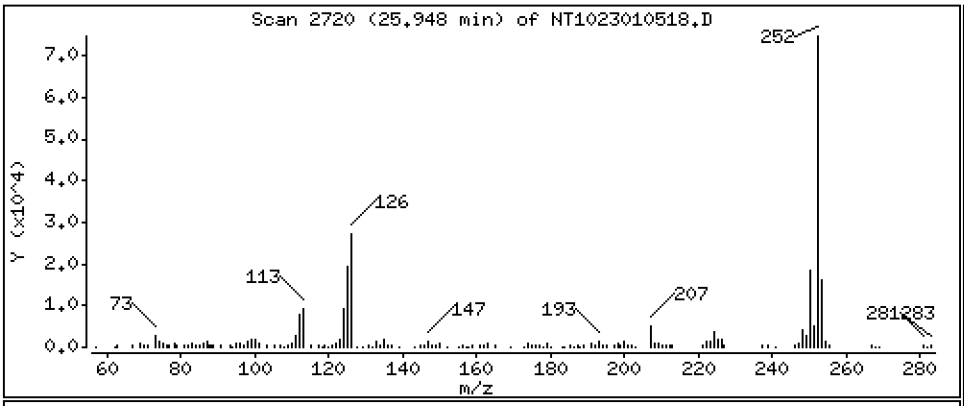
Operator: VTS

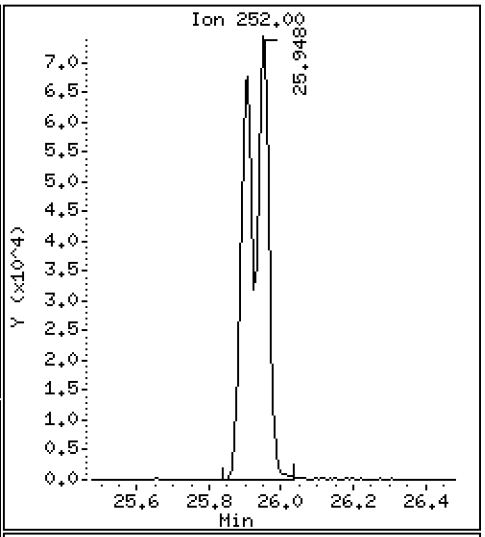
Column phase: ZB-5msi

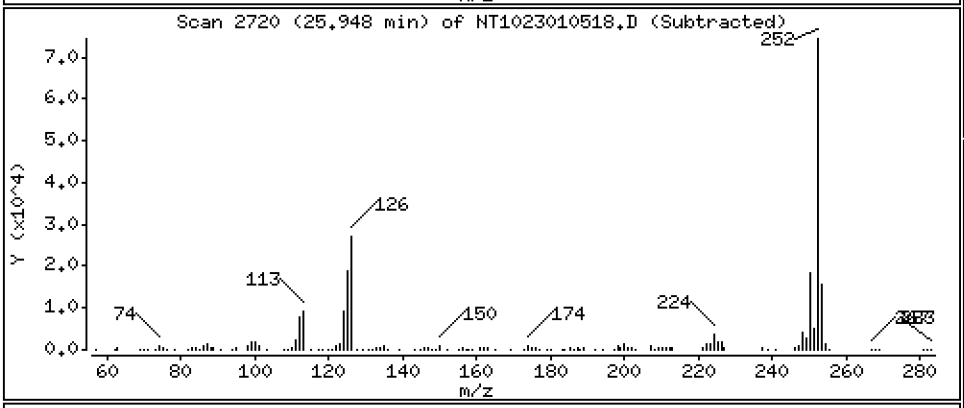
Column diameter: 0.25

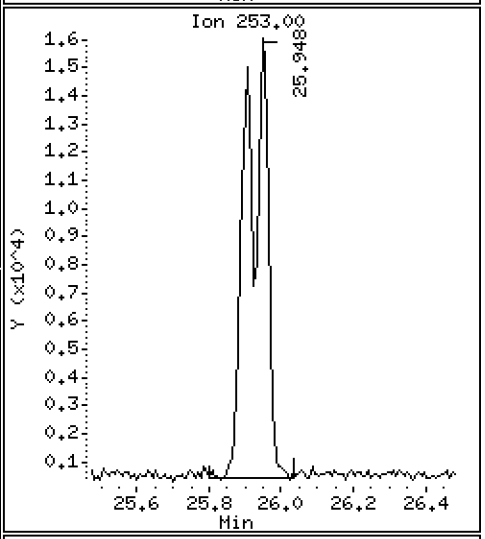
187 Total Benzofluoranthenes

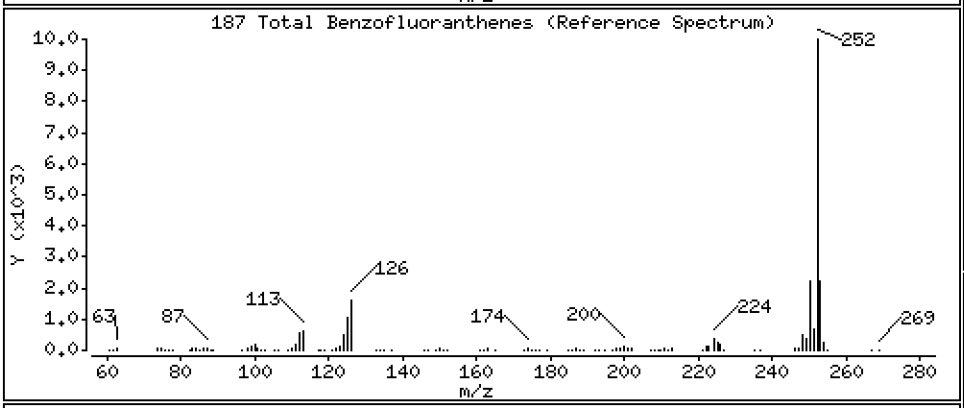
Concentration: 9.803 ug/mL

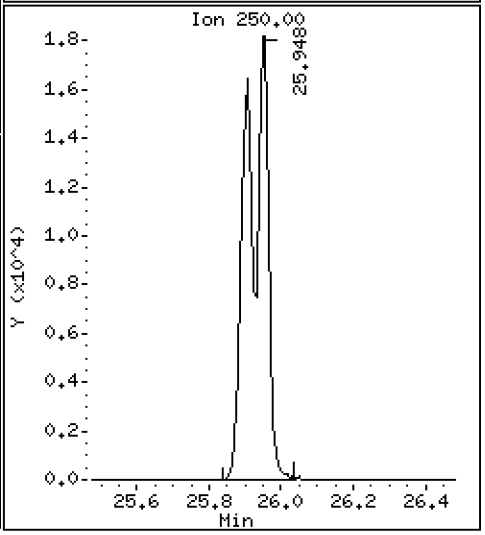


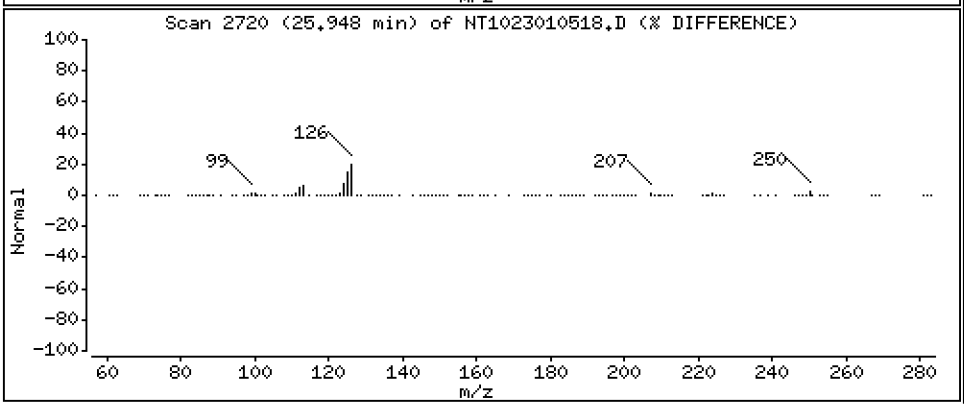












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Date : 06-JAN-2023 00:17

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-CCV1

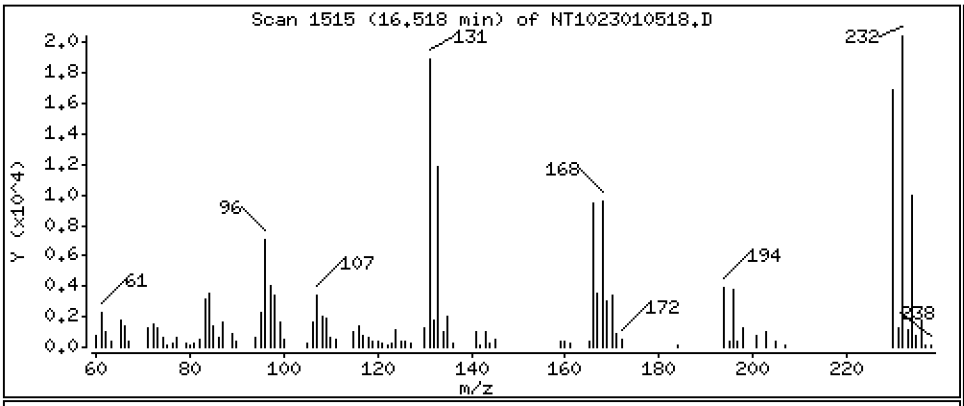
Operator: VTS

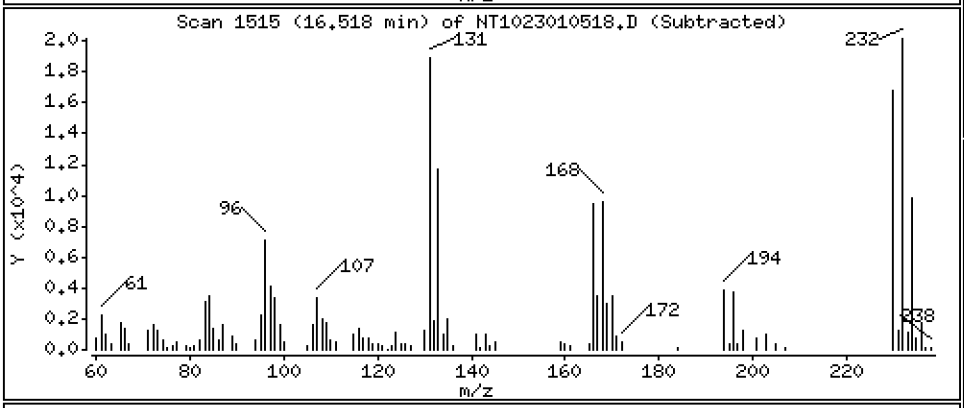
Column phase: ZB-5msi

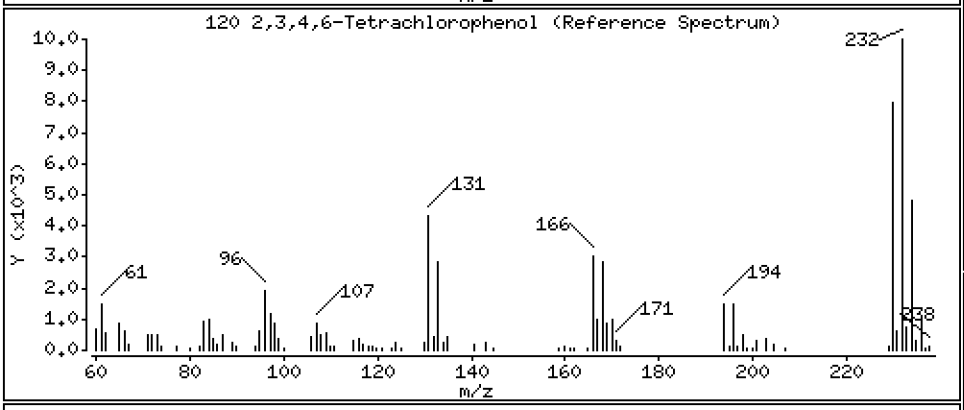
Column diameter: 0.25

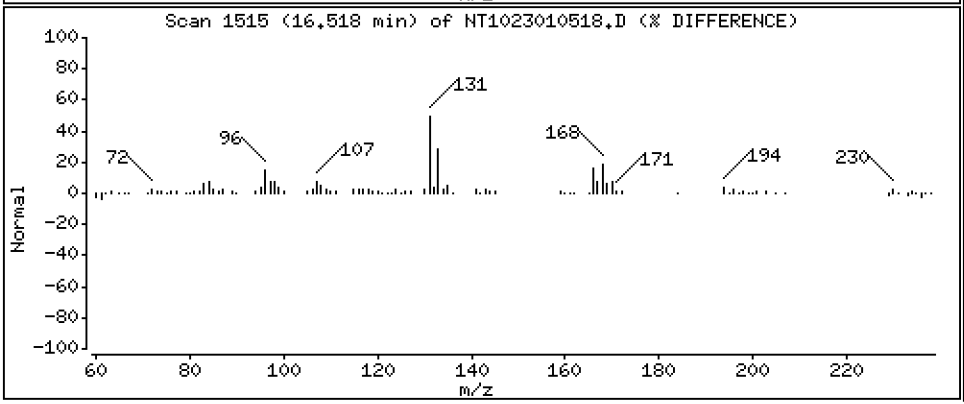
120 2,3,4,6-Tetrachlorophenol

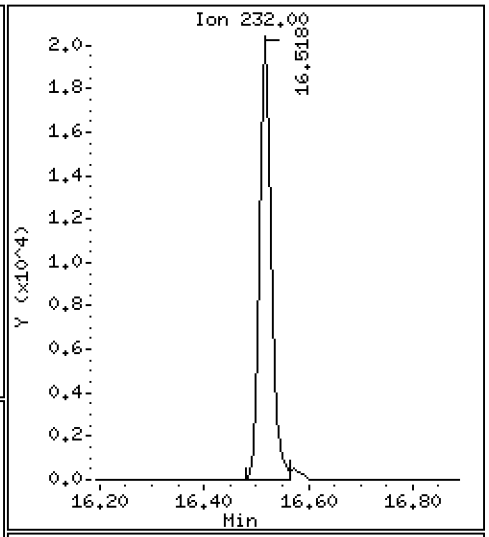
Concentration: 4.909 ug/mL

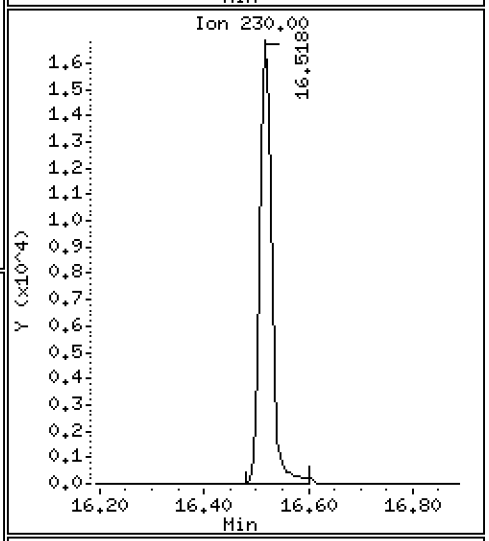


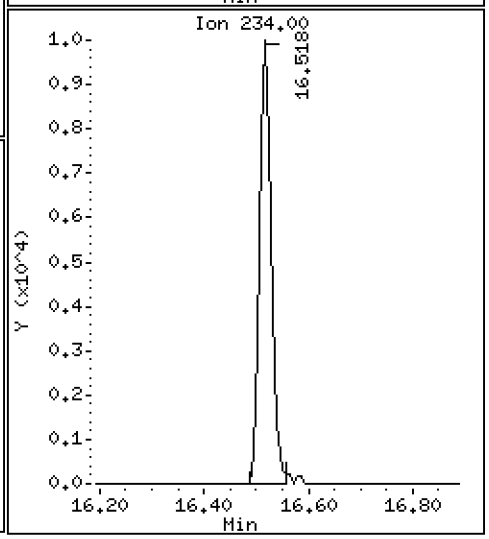












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010518.D
Lab Smp Id: SLA0061-CCV1
Inj Date : 06-JAN-2023 00:17
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0061-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1	2-Fluorophenol	112	7.421	7.429	(0.767)	187301	7.67574	7.676
$	2	Phenol-d5	99	9.005	9.012	(0.931)	224932	7.68094	7.681
	3	Phenol	94	9.020	9.036	(0.933)	141806	5.06512	5.065
$	5	2-Chlorophenol-d4	132	9.306	9.321	(0.962)	204948	8.10343	8.103
	4	Bis(2-Chloroethyl)ether	93	9.198	9.205	(0.951)	107745	4.46970	4.470
	6	2-Chlorophenol	128	9.337	9.344	(0.966)	141143	5.26539	5.265
	7	1,3-Dichlorobenzene	146	9.607	9.623	(0.994)	136041	4.83478	4.835
*	8	1,4-Dichlorobenzene-d4	152	9.669	9.685	(1.000)	73500	4.00000	
	9	1,4-Dichlorobenzene	146	9.700	9.716	(1.003)	114177	4.71861	4.719
$	10	1,2-Dichlorobenzene-d4	152	10.034	10.050	(1.038)	78556	4.98629	4.986
	12	1,2-Dichlorobenzene	146	10.065	10.073	(1.041)	118514	4.82679	4.827
	11	Benzyl alcohol	108	9.933	9.941	(1.027)	69819	5.25845	5.258
	14	2,2'-oxybis(1-Chloropropane)	121	10.228	10.244	(1.058)	34623	4.78844	4.788
	13	2-Methylphenol	108	10.151	10.158	(1.050)	101863	5.36175	5.362
	17	Hexachloroethane	117	10.663	10.679	(1.103)	49374	4.64768	4.648
	16	N-Nitroso-di-n-propylamine	70	10.484	10.500	(1.084)	52372	5.29618	5.296
	15	4-Methylphenol	108	10.415	10.422	(1.077)	80199	5.99446	5.994
$	18	Nitrobenzene-d5	82	10.764	10.779	(0.885)	96749	5.12894	5.129
	19	Nitrobenzene	77	10.803	10.810	(0.888)	88321	5.13138	5.131
	20	Isophorone	82	11.245	11.261	(0.924)	133590	5.03201	5.032
	21	2-Nitrophenol	139	11.433	11.442	(0.940)	77039	4.85152	4.852
	22	2,4-Dimethylphenol	107	11.459	11.476	(0.942)	218517	10.0802	10.08
	23	Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	94842	5.05251	5.053
	24	Benzoic acid	105	11.662	11.671	(0.958)	150355	15.9990	16.00
	25	2,4-Dichlorophenol	162	11.883	11.900	(0.976)	181339	10.6123	10.61
	26	1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	92184	5.10577	5.106
*	27	Naphthalene-d8	136	12.169	12.185	(1.000)	280657	4.00000	
	28	Naphthalene	128	12.208	12.224	(1.003)	299094	4.84644	4.846
	29	4-Chloroaniline	127	12.324	12.339	(1.013)	258344	10.2286	10.23
	30	Hexachlorobutadiene	225	12.563	12.579	(1.032)	33705	5.02346	5.023
	31	4-Chloro-3-methylphenol	107	13.275	13.291	(1.091)	187793	10.1946	10.19
	32	2-Methylnaphthalene	142	13.600	13.624	(1.118)	239051	4.89749	4.897
	33	Hexachlorocyclopentadiene	237	14.065	14.088	(0.891)	32024	4.52654	4.527

		QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
Compounds		MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
34	2,4,6-Trichlorophenol	196	14.219	14.235	(0.901)	116442	10.4044	10.40
35	2,4,5-Trichlorophenol	196	14.297	14.312	(0.905)	128917	10.5686	10.57
$ 36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	242877	5.04622	5.046
37	2-Chloronaphthalene	162	14.599	14.622	(0.925)	214728	4.99374	4.994
38	2-Nitroaniline	65	14.846	14.862	(0.940)	64947	10.7142	10.71
39	Dimethylphthalate	163	15.257	15.280	(0.966)	194725	4.97017	4.970
40	Acenaphthylene	152	15.481	15.497	(0.980)	300944	4.87149	4.871
41	2,6-Dinitrotoluene	165	15.404	15.427	(0.975)	87862	9.87335	9.873
* 42	Acenaphthene-d10	164	15.791	15.814	(1.000)	129917	4.00000	
43	3-Nitroaniline	138	15.713	15.721	(0.995)	68118	10.3472	10.35
44	Acenaphthene	153	15.860	15.876	(1.004)	168779	4.92320	4.923
45	2,4-Dinitrophenol	184	15.914	15.938	(1.008)	108187	17.6434	17.64
46	Dibenzofuran	168	16.185	16.208	(1.025)	245845	4.71936	4.719
47	4-Nitrophenol	109	16.023	16.038	(1.015)	46368	9.45274	9.453
48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	122266	10.2394	10.24
50	Diethylphthalate	149	16.718	16.742	(1.059)	211146	5.10993	5.110
49	Fluorene	166	16.904	16.919	(1.070)	398549	5.21142	5.211
51	4-Chlorophenyl-phenylether	204	16.873	16.896	(1.069)	112646	4.58603	4.586
52	4-Nitroaniline	138	16.973	17.004	(1.075)	188219	10.7020	10.70
53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	209386	20.9300	20.93
54	N-Nitrosodiphenylamine	169	17.120	17.143	(0.909)	200246	4.74936	4.749
$ 55	2,4,6-Tribromophenol	330	17.436	17.459	(1.104)	19187	7.18799	7.188
56	4-Bromophenyl-phenylether	248	17.883	17.914	(0.949)	55306	4.98257	4.983
57	Hexachlorobenzene	284	18.215	18.238	(0.967)	40433	4.25950	4.260
58	Pentachlorophenol	266	18.571	18.594	(0.986)	20720	11.6615	11.66
* 59	Phenanthrene-d10	188	18.842	18.865	(1.000)	227790	4.00000	
60	Phenanthrene	178	18.896	18.919	(1.003)	271155	4.90648	4.906
61	Anthracene	178	18.981	19.005	(1.007)	270188	5.00827	5.008
62	Carbazole	167	19.298	19.322	(1.024)	295185	5.07772	5.078
63	Di-n-butylphthalate	149	20.041	20.072	(1.064)	424328	5.23911	5.239
64	Fluoranthene	202	21.240	21.271	(0.891)	300086	4.76848	4.768
65	Pyrene	202	21.666	21.689	(0.908)	314396	4.95785	4.958
$ 66	Terphenyl-d14	244	21.929	21.952	(0.919)	171559	4.67793	4.678
67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	173182	5.08231	5.082
68	Benzo(a)anthracene	228	23.818	23.842	(0.999)	203175	4.70293	4.703
* 69	Chrysene-d12	240	23.849	23.873	(1.000)	151350	4.00000	
70	3,3'-Dichlorobenzidine	252	23.756	23.780	(0.996)	231011	14.4141	14.41
71	Chrysene	228	23.896	23.919	(1.002)	174873	4.66780	4.668
72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.958)	297990	5.09962	5.100
* 134	Di-n-octylphthalate-d4	153	24.895	24.926	(1.000)	380500	4.00000	
73	Di-n-octylphthalate	149	24.910	24.941	(1.001)	418354	4.75463	4.755
74	Benzo(b)fluoranthene	252	25.909	25.932	(0.967)	154767	4.61637	4.616
75	Benzo(k)fluoranthene	252	25.947	25.978	(0.968)	168470	5.15762	5.158
76	Benzo(a)pyrene	252	26.667	26.691	(0.995)	154741	4.84020	4.840
* 77	Perylene-d12	264	26.799	26.822	(1.000)	93071	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	29.931	29.946	(1.117)	90951	3.61927	3.619
79	Dibenzo(a,h)anthracene	278	29.938	29.970	(1.117)	80033	4.05310	4.053
80	Benzo(g,h,i)perylene	276	30.863	30.886	(1.152)	69815	3.36732	3.367
90	N-Nitrosodimethylamine	74	5.266	5.282	(0.545)	131986	9.69951	9.700
91	Aniline	93	9.120	9.128	(0.943)	280265	10.6018	10.60
93	Benzidine	184	21.457	21.480	(0.900)	194273	6.70312	6.703
103	Pyridine	79	5.274	5.290	(0.545)	172538	4.26115	4.261
105	1-methylnaphthalene	142	13.825	13.848	(1.136)	233745	4.90095	4.901
111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	252015	4.91862	4.919

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.947	25.978	(0.968)	311188	9.80289	9.803
120 2,3,4,6-Tetrachlorophenol	232	16.517	16.541	(1.046)	33042	4.90932	4.909

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010518.D
Lab Smp Id: SLA0061-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	73500	-10.06
27 Naphthalene-d8	307034	153517	614068	280657	-8.59
42 Acenaphthene-d10	140557	70279	281114	129917	-7.57
59 Phenanthrene-d10	243620	121810	487240	227790	-6.50
69 Chrysene-d12	144852	72426	289704	151350	4.49
134 Di-n-octylphthala	387178	193589	774356	380500	-1.72
77 Perylene-d12	106683	53342	213366	93071	-12.76

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.67	-0.16
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.84	-0.12
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.12
77 Perylene-d12	26.82	26.32	27.32	26.80	-0.09

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010518.D

Lab ID: SLA0061-CCV1
nt10.i, ABN.m, 06-JAN-2023 00:17

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010503.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-LCV1	Injection Time:	14:37
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.4	1.4044630	1.2195720		-17.0	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.4	1.3118710	1.1661380		-11.1	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4588200	1.3550700		-7.1	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5313200	1.5084630		-1.5	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.3168520	1.2201540		-7.3	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.3362390	1.2982240		-2.8	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.5973505	0.5012120		-26.8	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.0	0.3934987				+/-50 *
2-Methylphenol	A	0.50000	0.5	1.0215070	0.9504052		-4.0	+/-50
Hexachloroethane	A	0.50000	0.5	0.5781425	0.5396644		-6.7	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.0	0.5381567				+/-50 *
4-Methylphenol	A	0.50000	0.7	0.7393577	0.8883155		30.7	+/-50
Nitrobenzene	A	0.50000	0.4	0.2419063	0.2087951		-10.7	+/-50
Isophorone	A	0.50000	0.0	0.3567252				+/-50 *
2-Nitrophenol	A	0.50000	0.4	0.2032345	0.1571559		-26.7	+/-50
2,4-Dimethylphenol	A	1.0000	0.8	0.3089571	0.2464160		-20.2	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.2675330	0.2491979		-6.9	+/-50
2,4-Dichlorophenol	A	1.0000	0.8	0.2172906	0.1957549		-16.9	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.6	0.2573230	0.3185717		23.8	+/-50
Naphthalene	A	0.50000	0.5	0.8795663	0.8463513		-3.8	+/-50
Benzoic acid	A	2.0000	0.02	0.0729753	0.0013149		-99.0	+/-50
4-Chloroaniline	A	1.0000	0.8	0.3408285	0.2838522		-16.7	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.0956260	0.0886732		-7.3	+/-50
4-Chloro-3-Methylphenol	A	1.0000	0.7	0.2294921	0.1636434		-34.3	+/-50
2-Methylnaphthalene	A	0.50000	0.4	0.6956659	0.6190609		-11.0	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.7	0.1879345	0.1526686		-28.7	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.8	0.2960164	0.2572878		-22.8	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.7	0.3120060	0.2641409		-27.0	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.3239040	1.3050960		-1.4	+/-50
2-Nitroaniline	A	1.0000	0.7	0.1611951	0.1161105		-34.5	+/-50
Acenaphthylene	A	0.50000	0.5	1.9020330	1.8609460		-2.2	+/-50
Dimethylphthalate	A	0.50000	0.5	1.2062690	1.2529300		3.9	+/-50
2,6-Dinitrotoluene	A	1.0000	0.9	0.2739875	0.2477249		-9.6	+/-50
Acenaphthene	A	0.50000	0.5	1.0555160	1.0500490		-0.5	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010503.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-LCV1	Injection Time:	14:37
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	1.4	0.2397950	0.2758926		44.9	+/-50
2,4-Dinitrophenol	A	2.0000	0.2	0.1289526	0.0199597		-88.9	+/-50
Dibenzofuran	A	0.50000	0.5	1.6038830	1.5622280		-2.6	+/-50
4-Nitrophenol	A	1.0000	0.3	0.1495319	0.0359588		-74.8	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3676432	0.2964777		-19.4	+/-50
Fluorene	A	0.50000	0.5	2.3546130	2.5473430		8.2	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.6	0.7562631	0.8912572		17.9	+/-50
Diethyl phthalate	A	0.50000	0.5	1.2805980	1.1704850		-8.0	+/-50
4-Nitroaniline	A	1.0000	0.9	0.4852205	0.4738224		-9.3	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	1.1	0.1290933	0.0939358		-44.3	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.6	0.7403786	0.8259015		11.6	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.4	0.1949145	0.1751493		-10.1	+/-50
Hexachlorobenzene	A	0.50000	0.5	0.1666873	0.1784780		7.1	+/-50
Pentachlorophenol	A	1.0000	0.0	0.0286214				+/-50 *
Phenanthrene	A	0.50000	0.5	0.9704501	0.9344777		-3.7	+/-50
Anthracene	A	0.50000	0.4	0.9473360	0.8243782		-13.0	+/-50
Carbazole	A	0.50000	0.4	1.0208240	0.9021502		-11.6	+/-50
Di-n-Butylphthalate	A	0.50000	0.4	1.3659470	1.1149870		-17.0	+/-50
Fluoranthene	A	0.50000	0.5	1.7525480	1.4857670		-5.6	+/-50
Pyrene	A	0.50000	0.5	1.8193730	1.5005870		-5.0	+/-50
Butylbenzylphthalate	A	0.50000	0.5	0.9455969	0.7965639		-6.4	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2329510	1.1455980		5.7	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.4	0.4473353	0.3635314		-9.0	+/-50
Chrysene	A	0.50000	0.5	0.9901209	0.9668686		-2.3	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.6142836	0.6179833		0.6	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9249794	0.9176498		-0.8	+/-50
Benzofluoranthenes, Total	A	1.0000	1.0	1.3643130	1.3453810		-1.4	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.3740040	1.2691880		-7.6	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.4	1.0800220	0.9191320		-14.9	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.4	0.8486470	0.7038097		-17.1	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.2	0.8910674	0.3741278		-58.0	+/-50
1-Methylnaphthalene	A	0.50000	0.4	0.6797458	0.6057382		-10.9	+/-50
2-Fluorophenol	A	0.75000	0.556	1.1160130	0.9387253		-25.8	+/-50
Phenol-d5	A	0.75000	0.00	1.4242540				+/-50 *

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT10	Calibration:	GA00013
Lab File ID:	NT1023010503.D	Calibration Date:	01/04/2023
Sequence:	SLA0061	Injection Date:	01/05/23
Lab Sample ID:	SLA0061-LCV1	Injection Time:	14:37
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.670	1.3764080	1.2288100		-10.7	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.468	0.8573826	0.8022555		-6.4	+/-50
Nitrobenzene-d5	A	0.50000	0.398	0.2588694	0.2035573		-20.4	+/-50
2-Fluorobiphenyl	A	0.50000	0.474	1.4818850	1.4061460		-5.1	+/-50
2,4,6-Tribromophenol	A	0.75000	0.548	0.0688448	0.0568740		-26.9	+/-50
p-Terphenyl-d14	A	0.50000	0.452	0.9692527	0.8756954		-9.7	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Page 1

Date : 05-JAN-2023 14:37

Client ID:

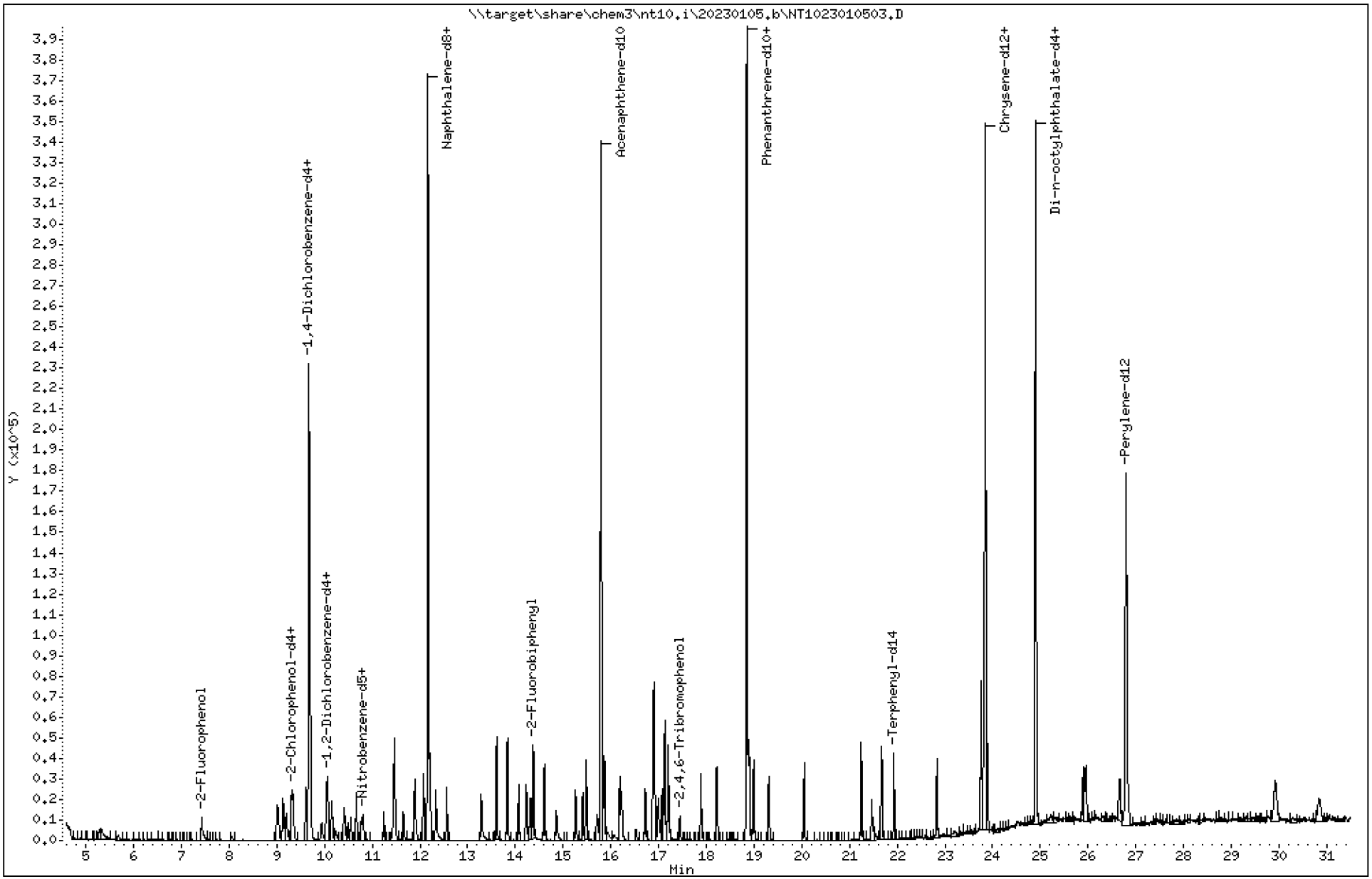
Instrument: nt10.i

Sample Info: SLA0061-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 3380 of 5449

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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

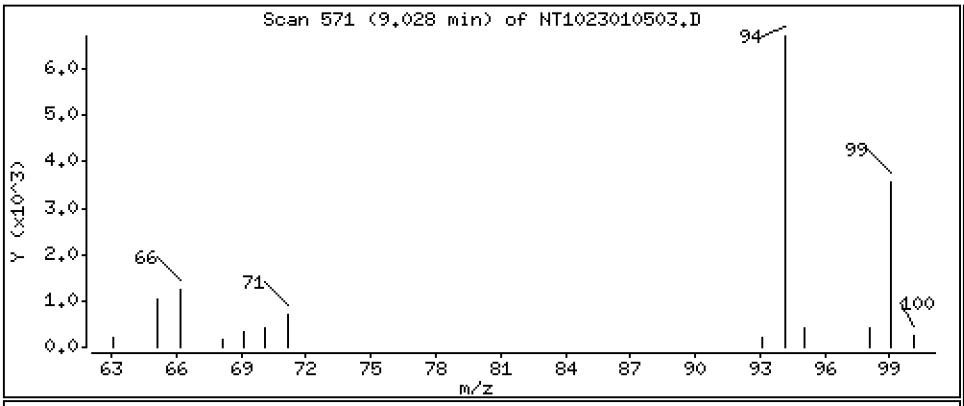
Operator: VTS

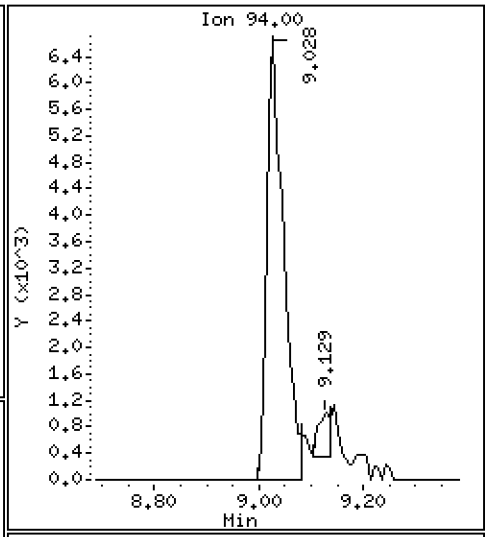
Column phase: ZB-5msi

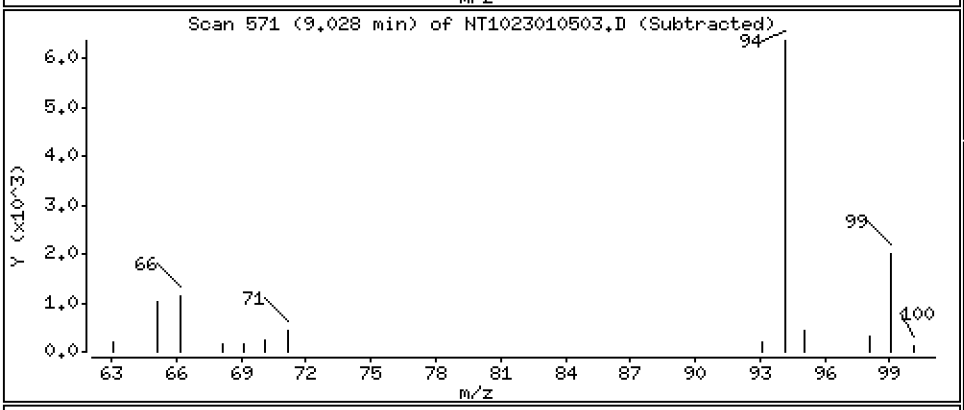
Column diameter: 0.25

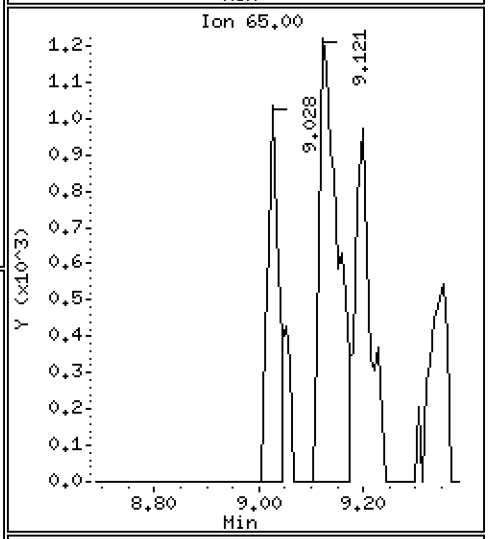
3 Phenol

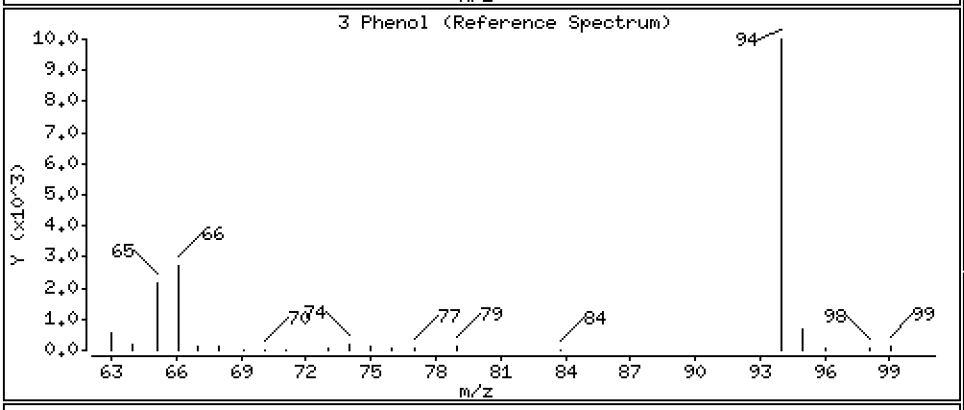
Concentration: 0.4152 ug/mL

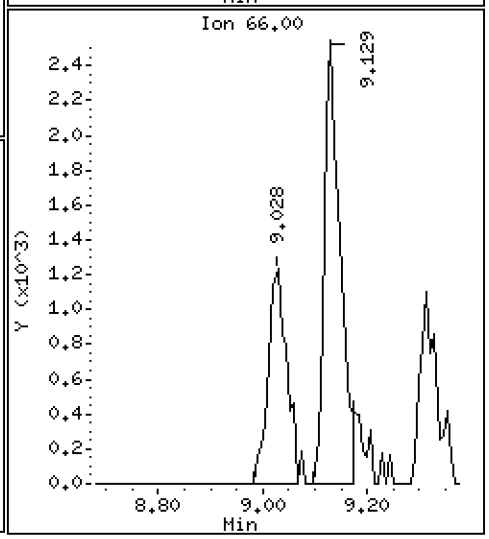


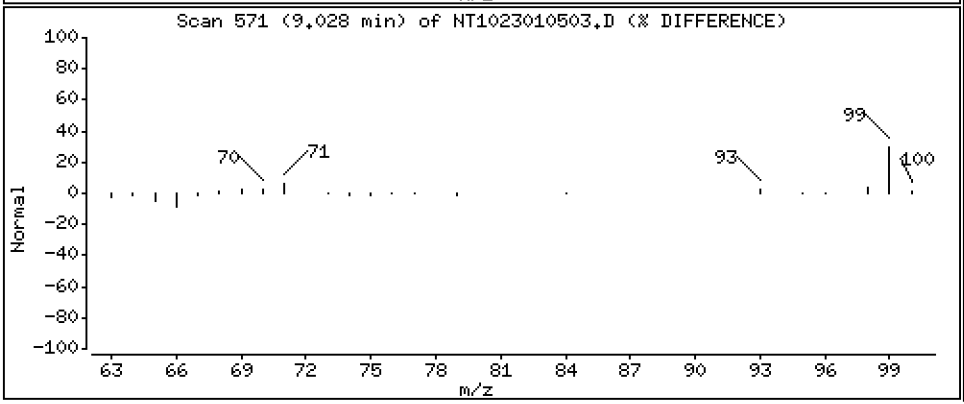












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

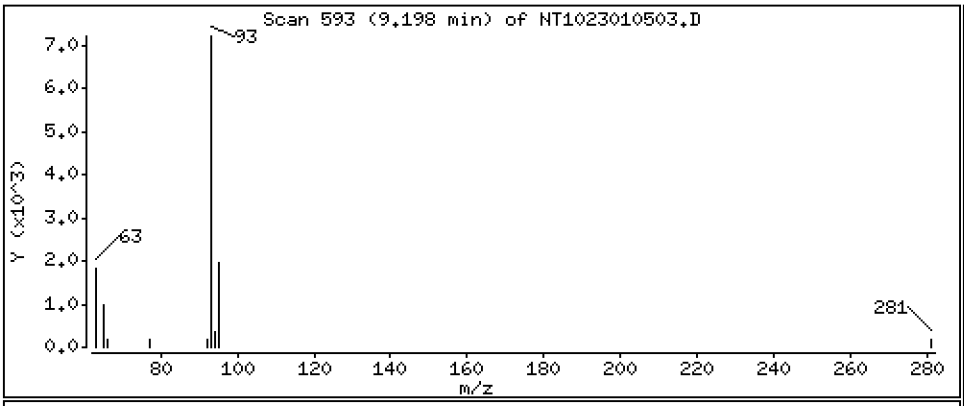
Operator: VTS

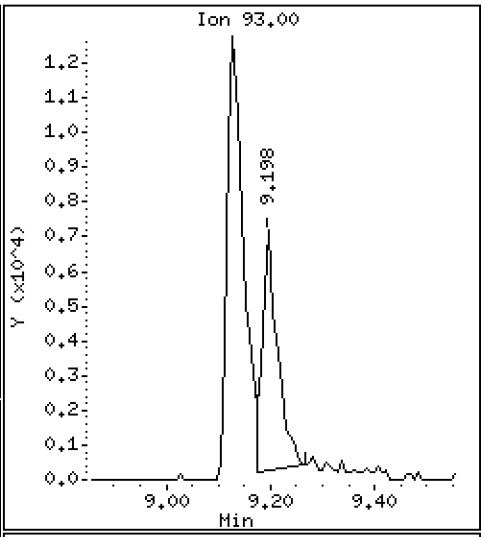
Column phase: ZB-5msi

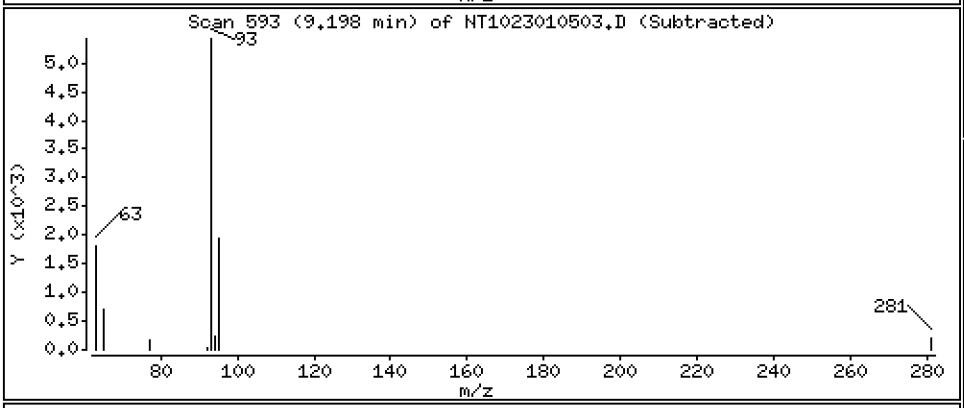
Column diameter: 0.25

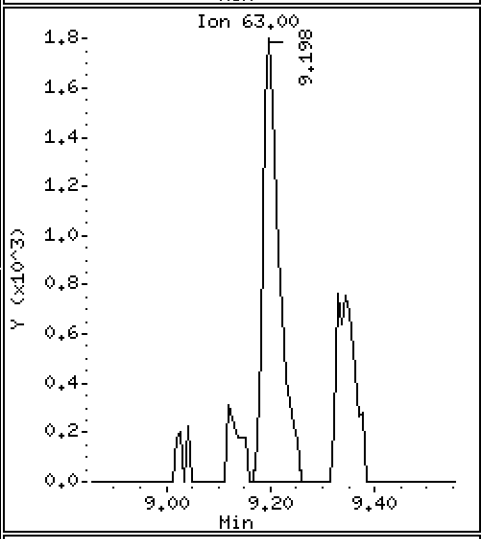
4 Bis(2-Chloroethyl)ether

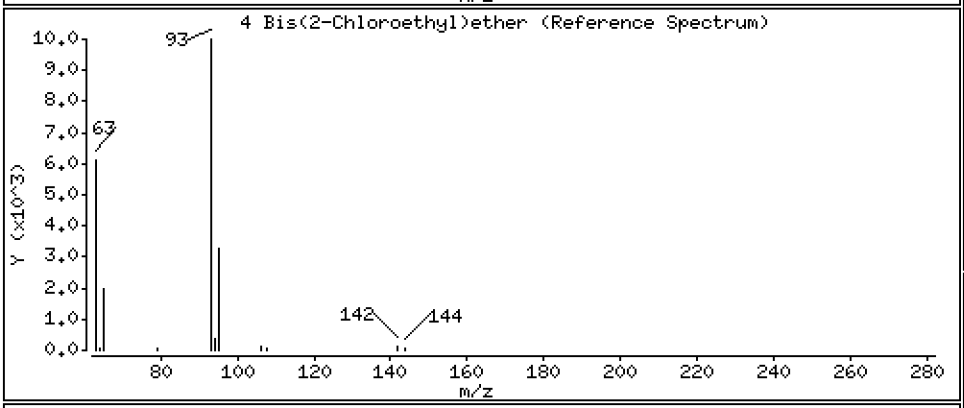
Concentration: 0.4445 ug/mL

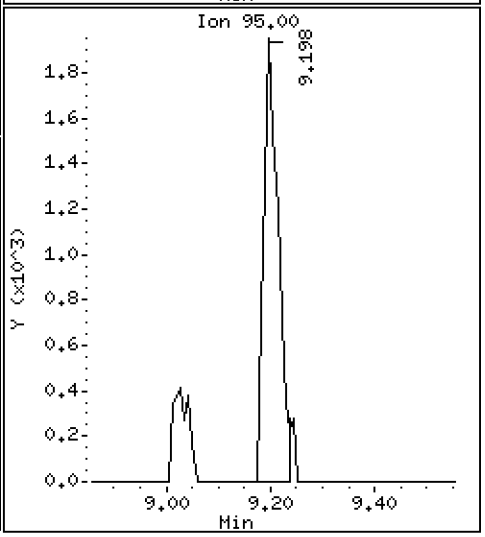


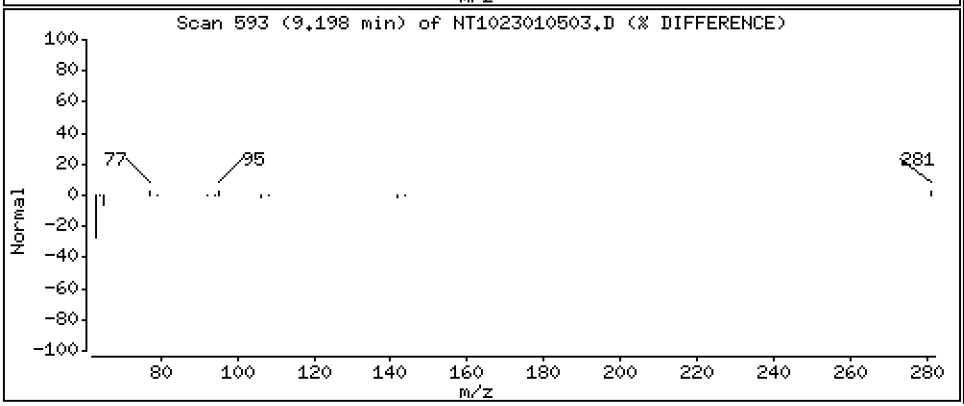












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

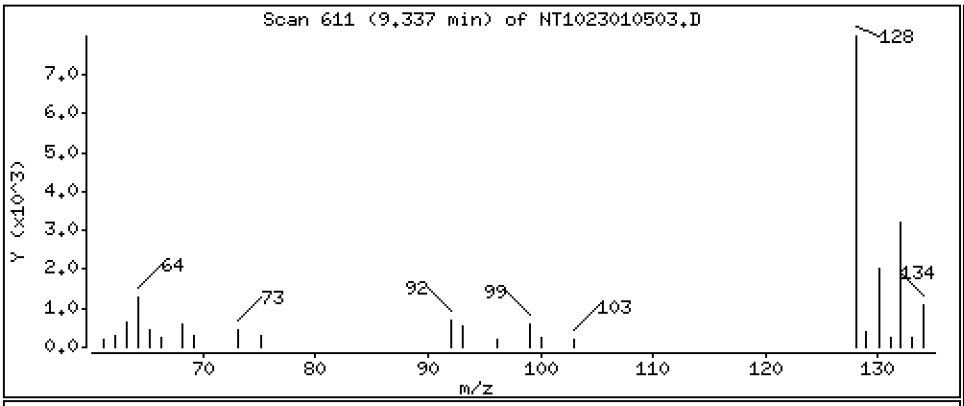
Operator: VTS

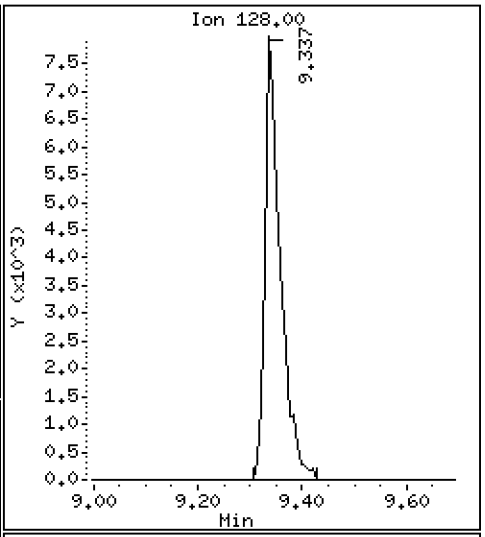
Column phase: ZB-5msi

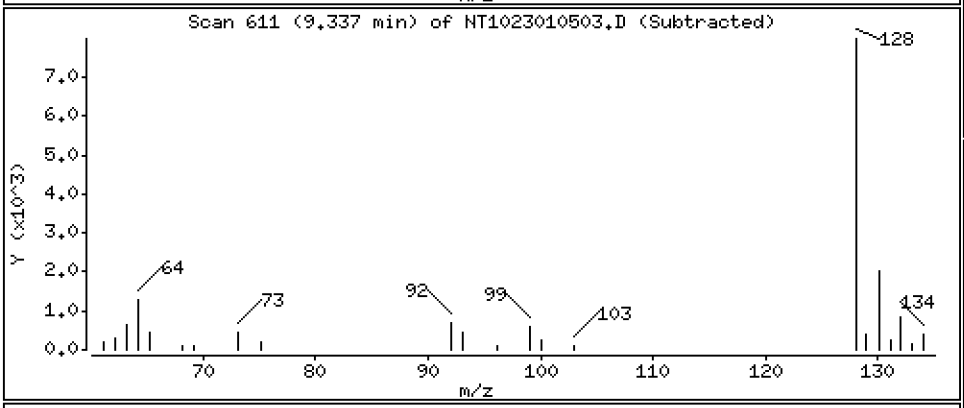
Column diameter: 0.25

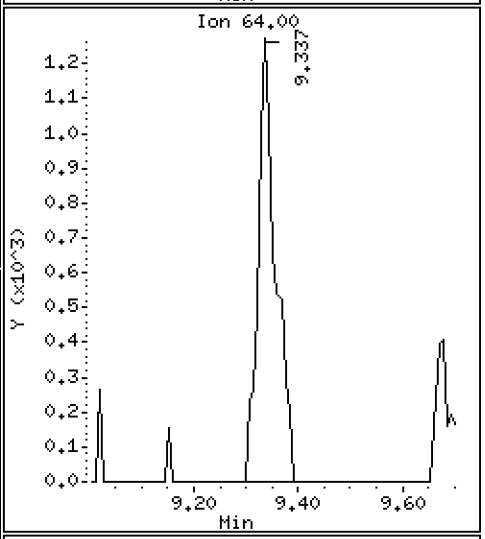
6 2-Chlorophenol

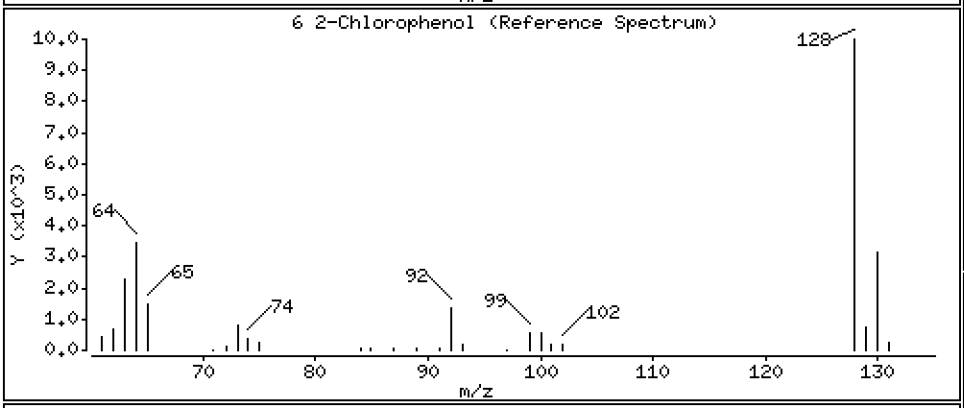
Concentration: 0.4644 ug/mL

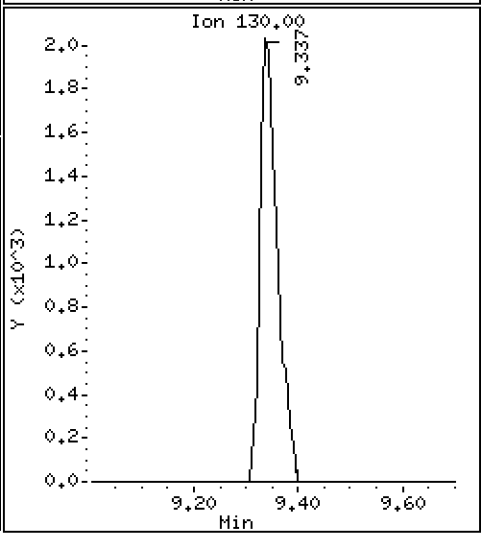


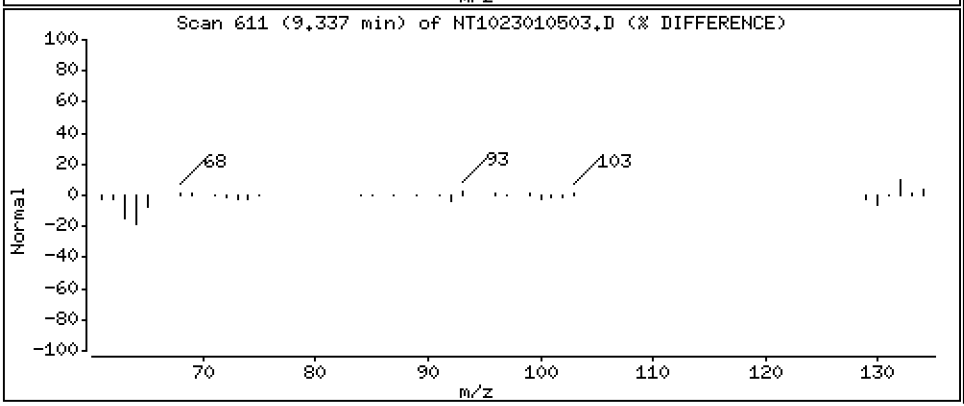












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

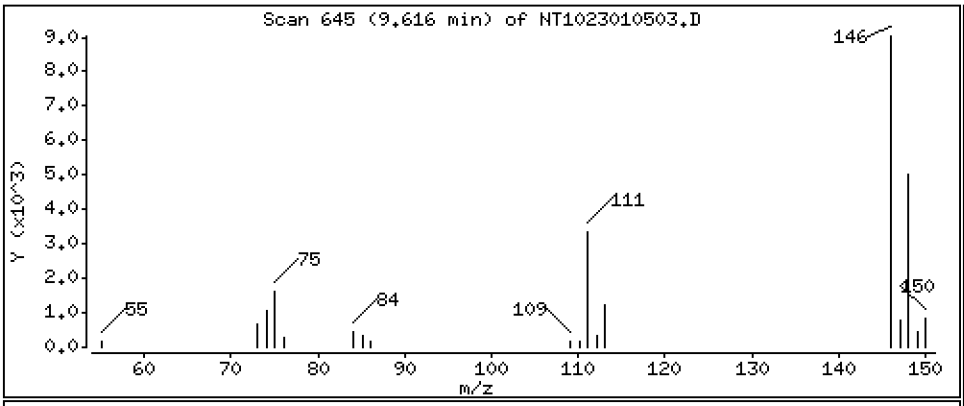
Operator: VTS

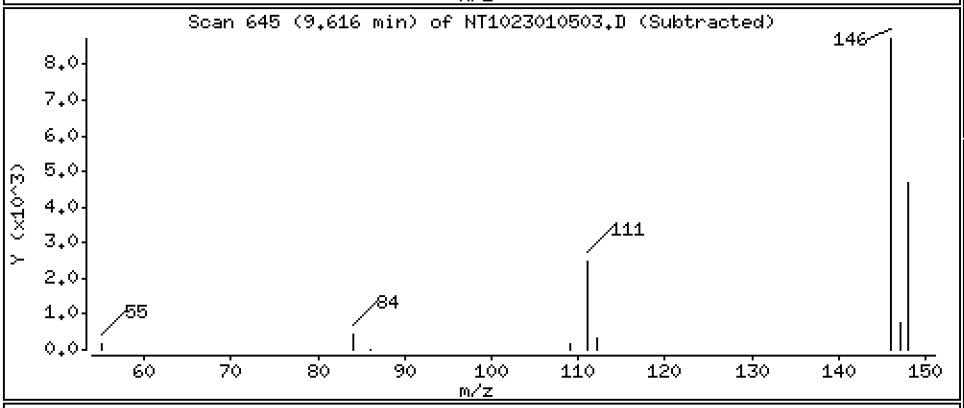
Column phase: ZB-5msi

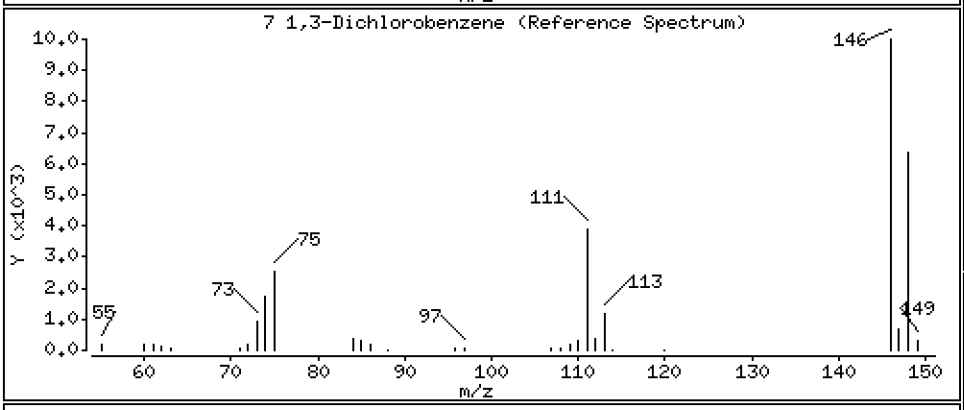
Column diameter: 0.25

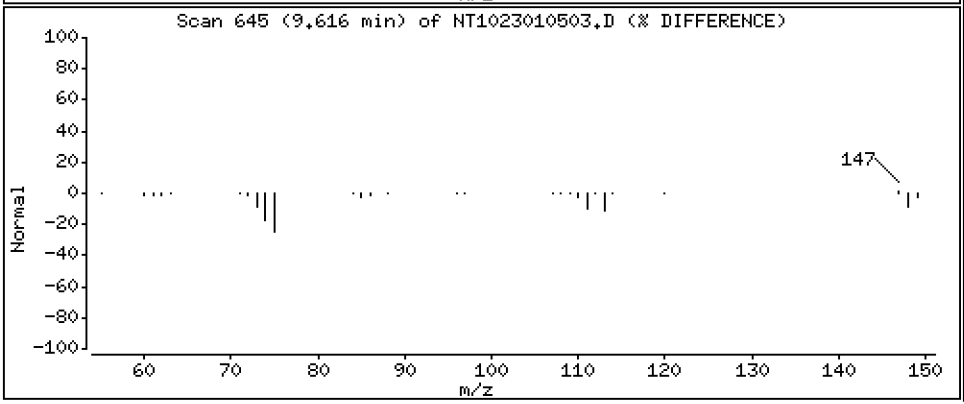
7 1,3-Dichlorobenzene

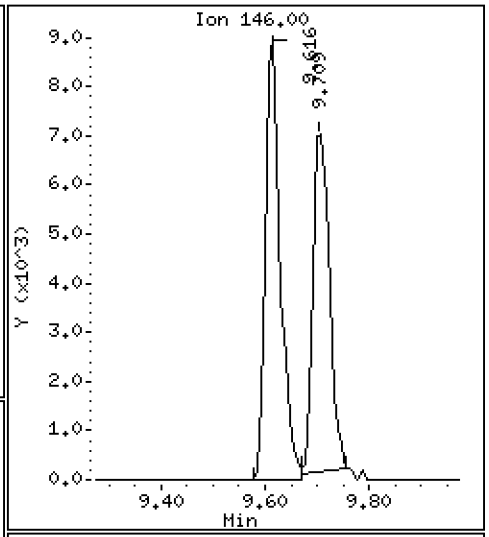
Concentration: 0.4925 ug/mL

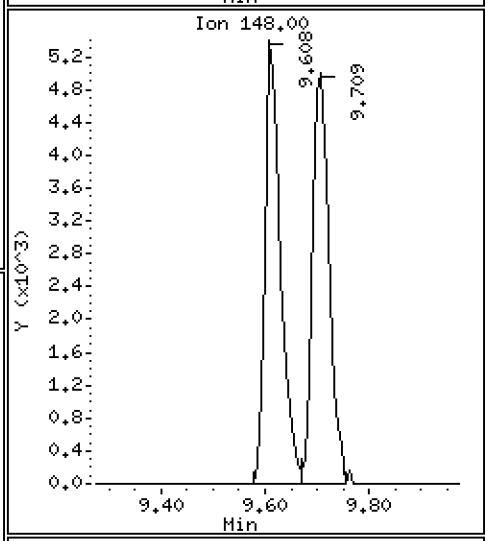


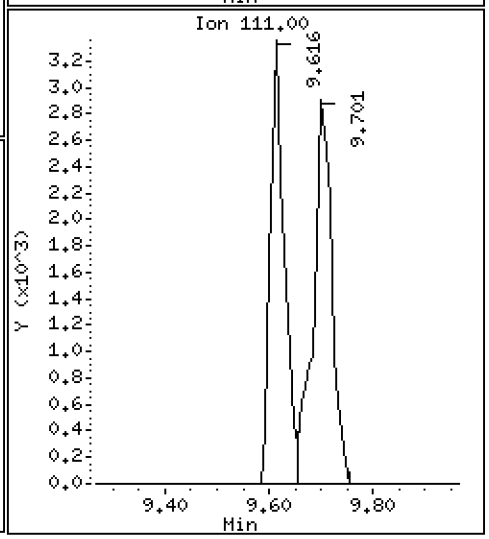












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

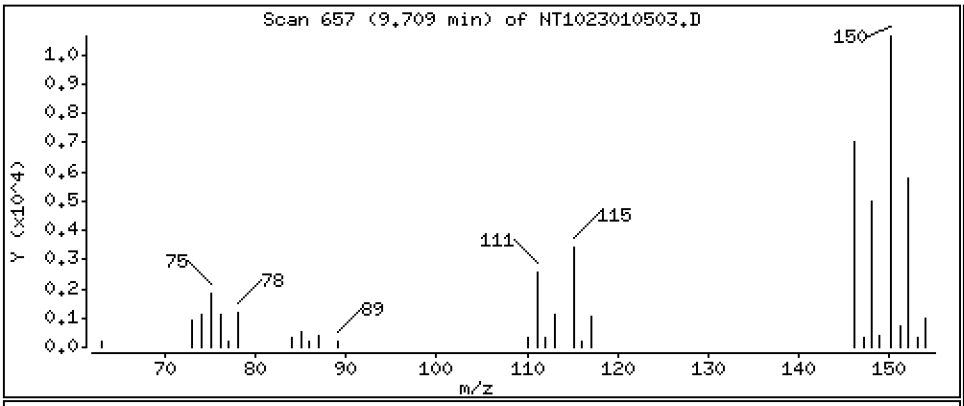
Operator: VTS

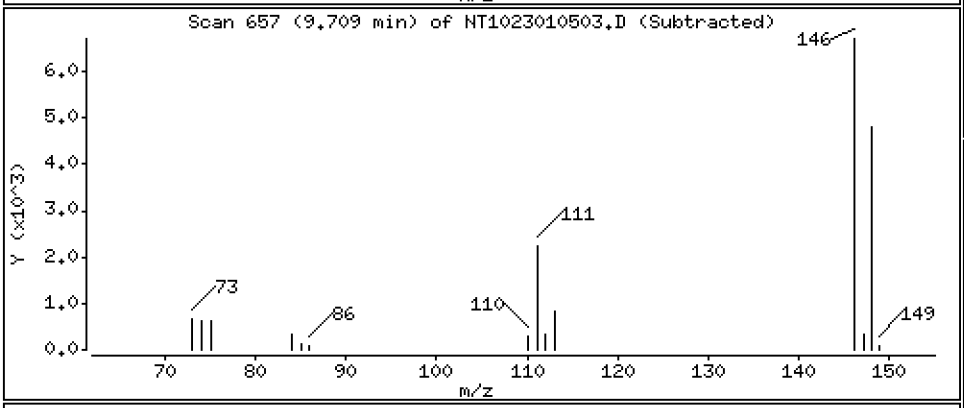
Column phase: ZB-5msi

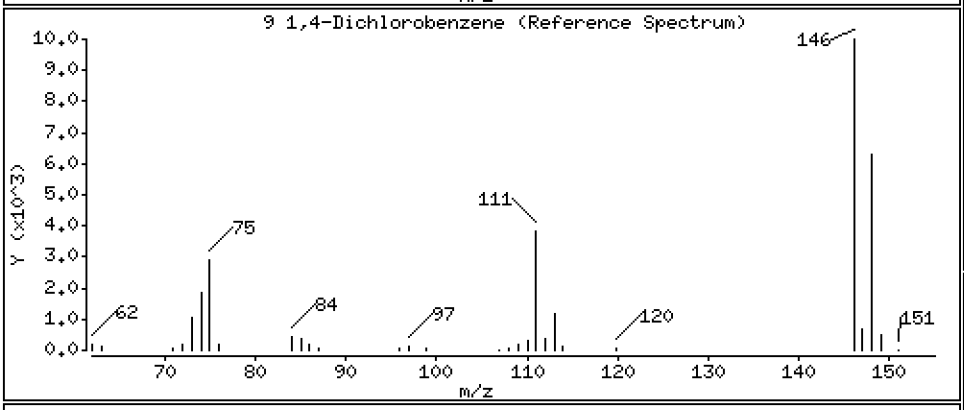
Column diameter: 0.25

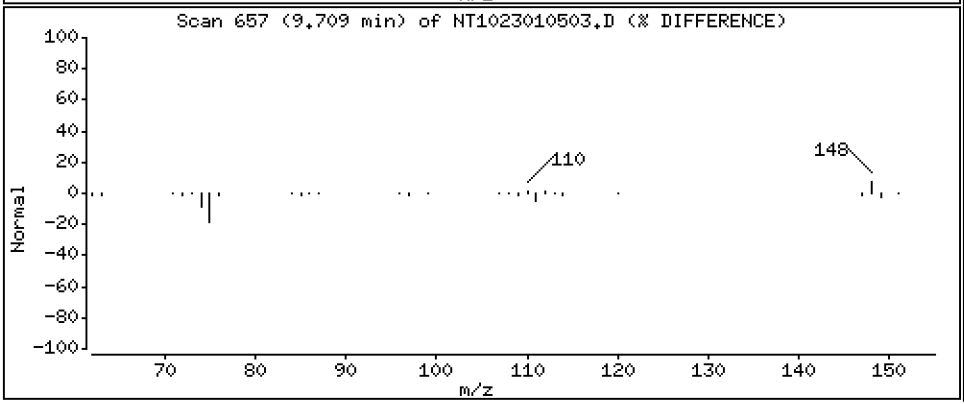
9 1,4-Dichlorobenzene

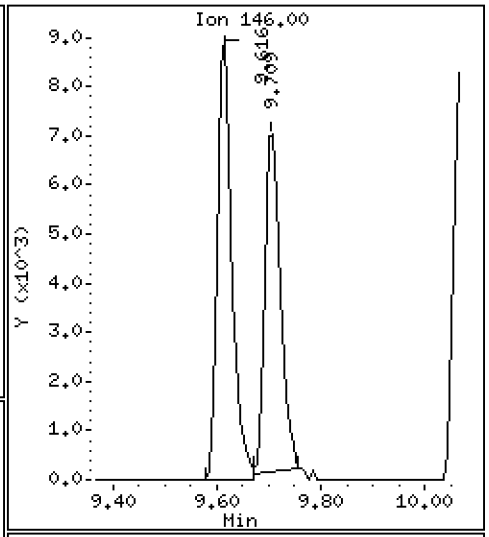
Concentration: 0.4633 ug/mL

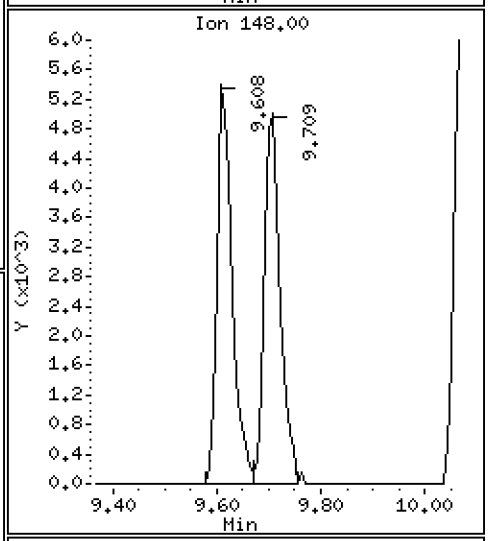


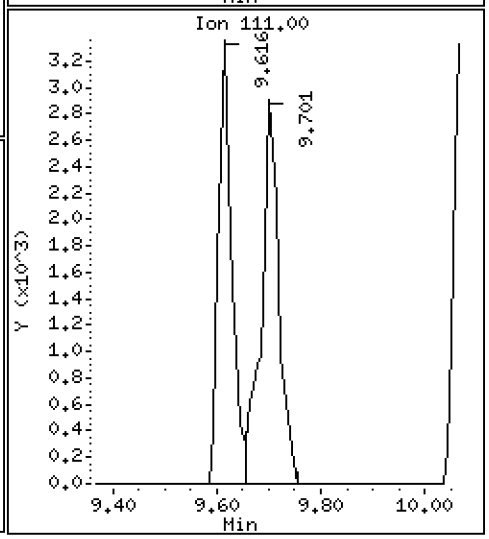












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

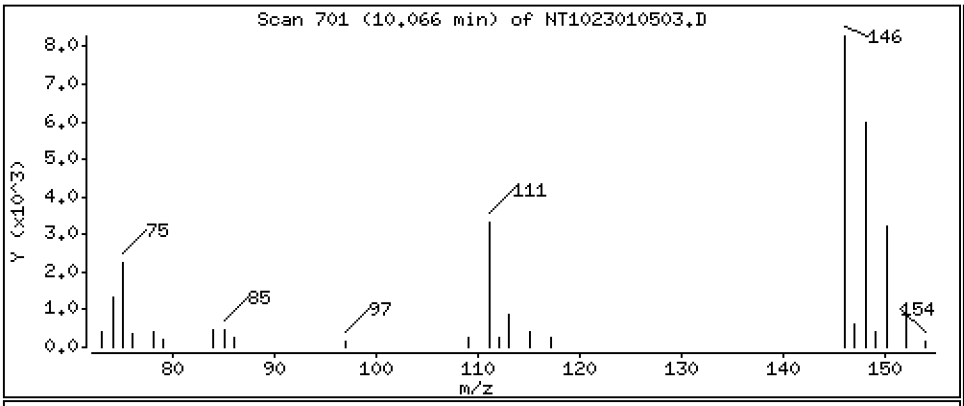
Operator: VTS

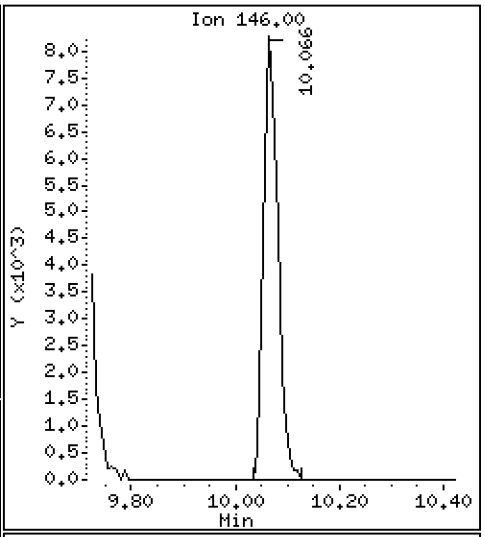
Column phase: ZB-5msi

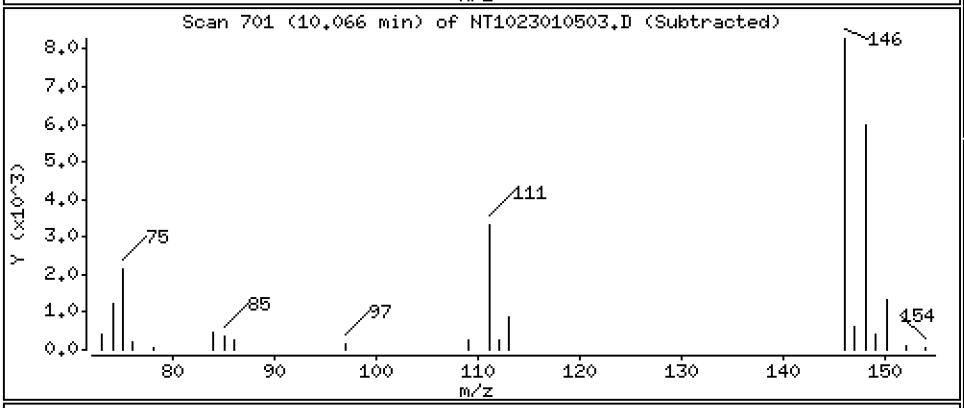
Column diameter: 0.25

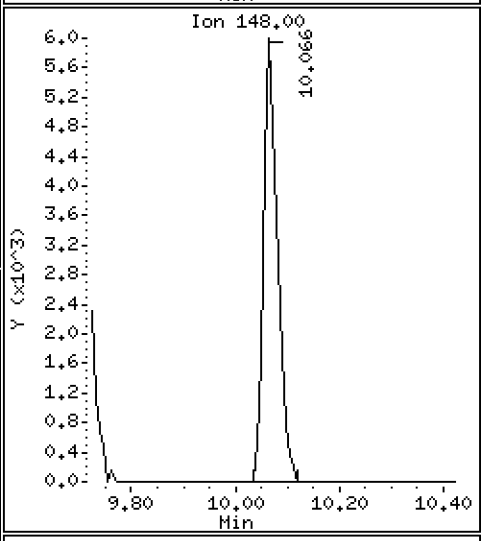
12 1,2-Dichlorobenzene

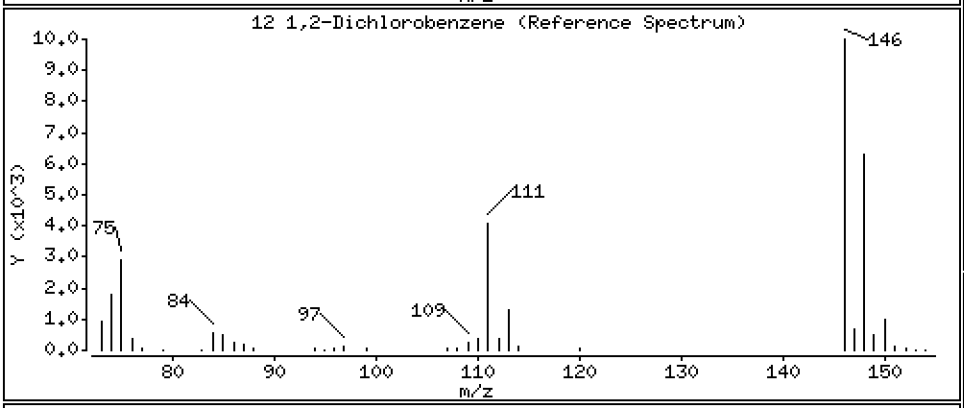
Concentration: 0.4858 ug/mL

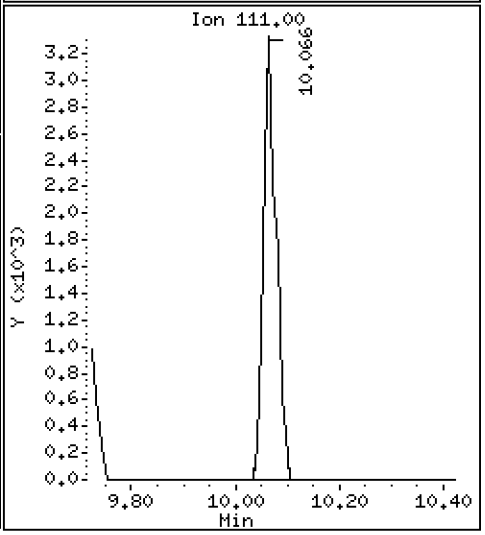


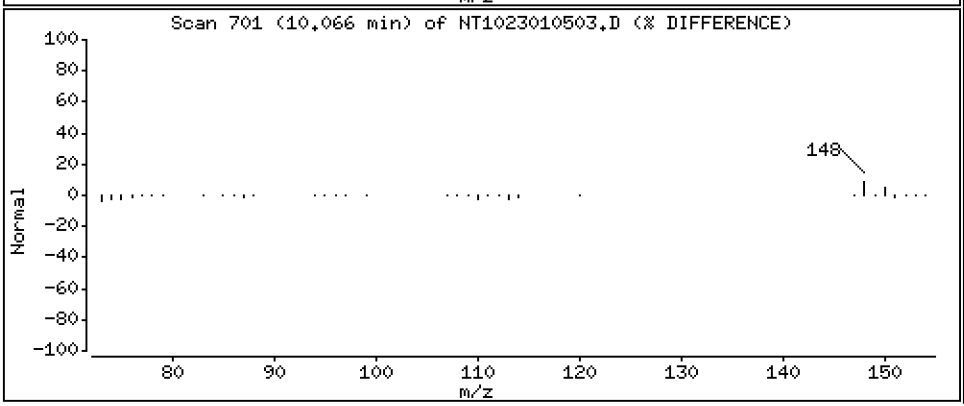












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

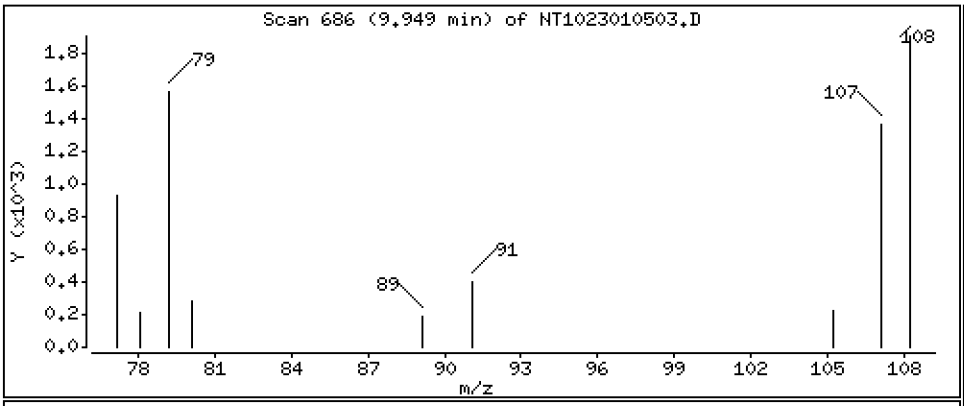
Operator: VTS

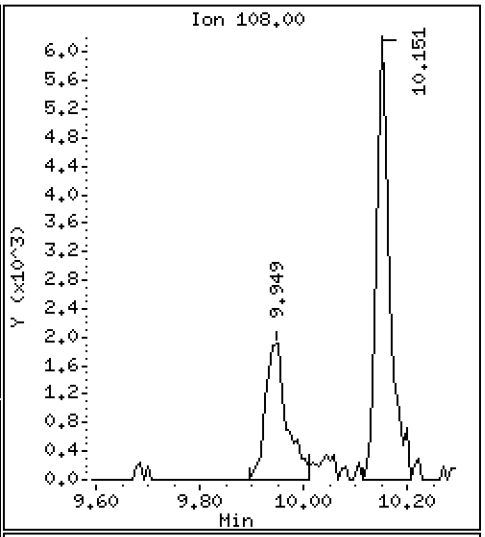
Column phase: ZB-5msi

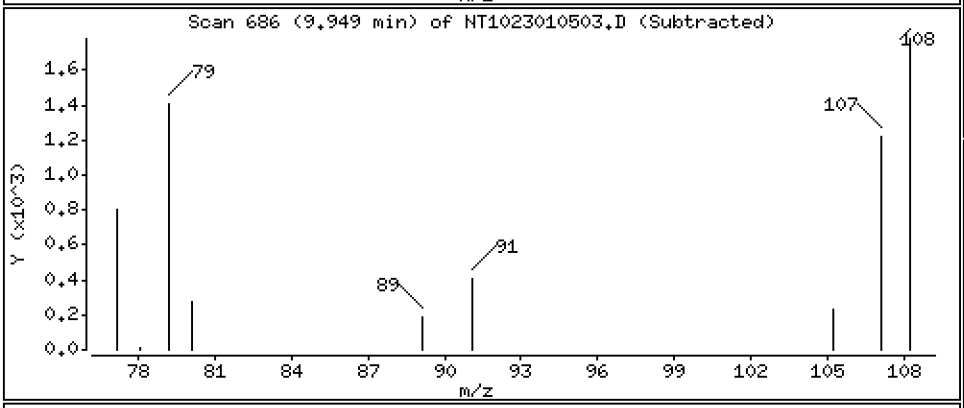
Column diameter: 0.25

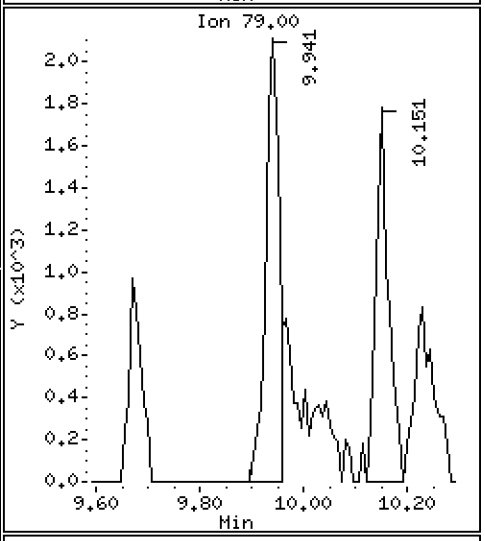
11 Benzyl alcohol

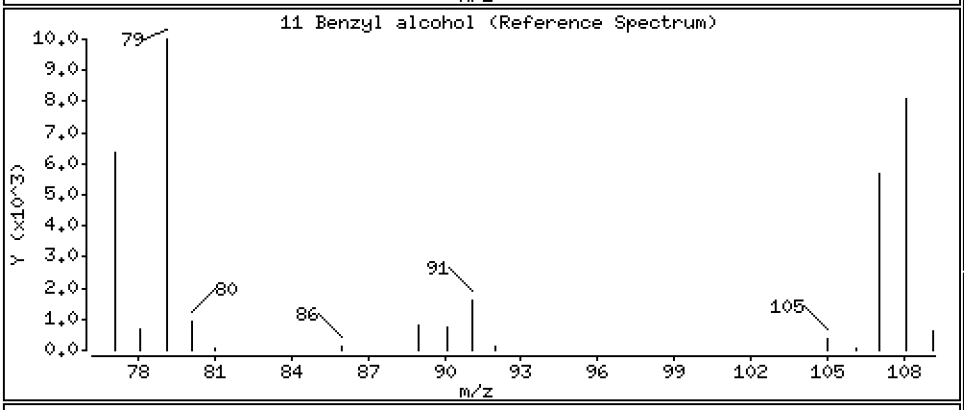
Concentration: 0.3661 ug/mL

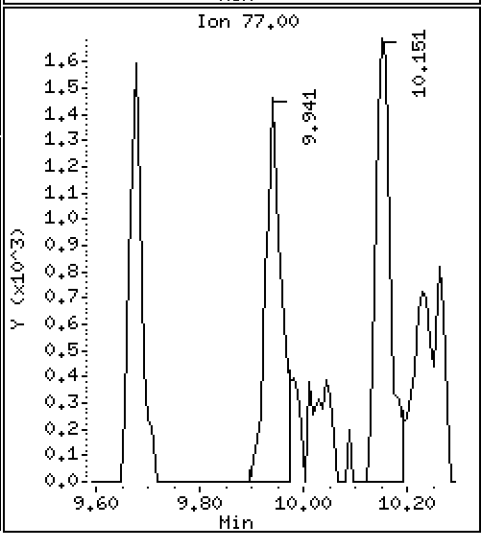


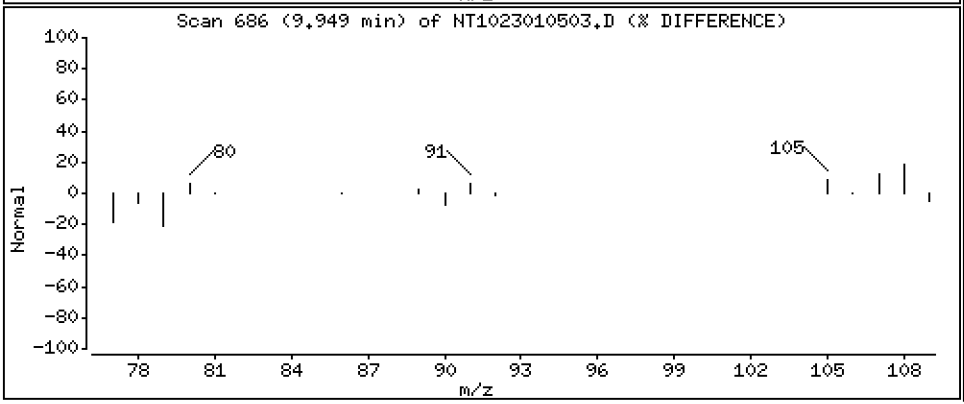












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

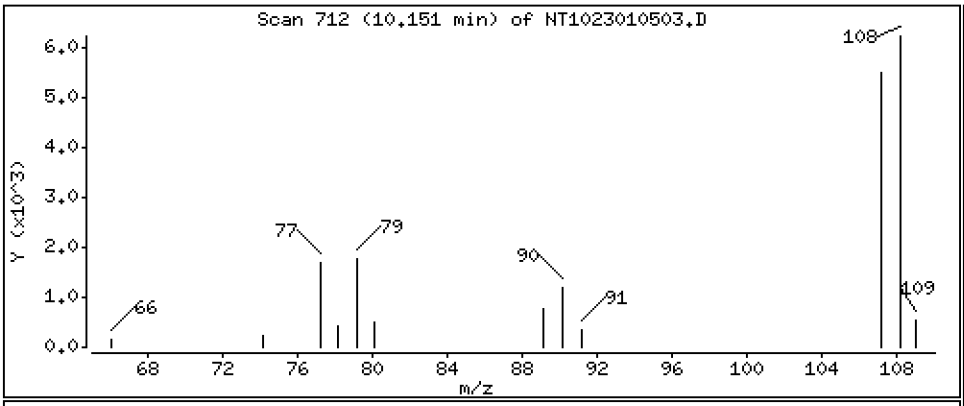
Operator: VTS

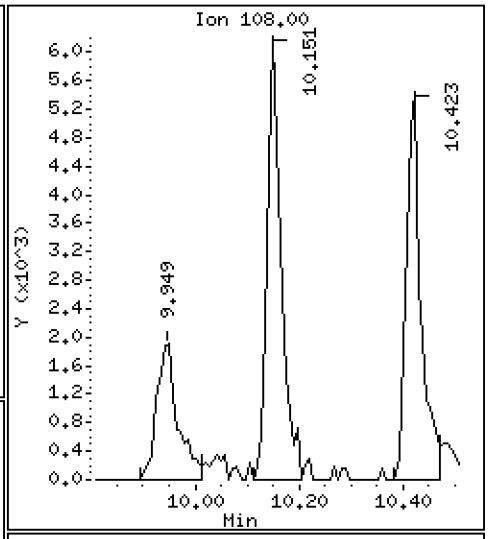
Column phase: ZB-5msi

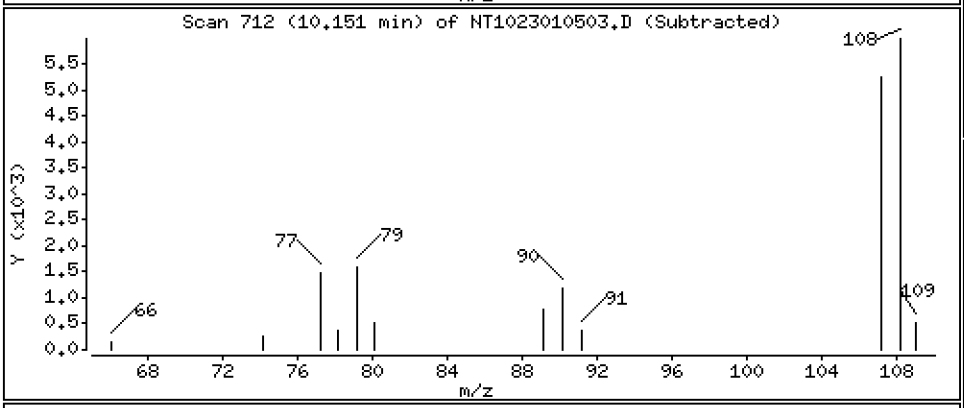
Column diameter: 0.25

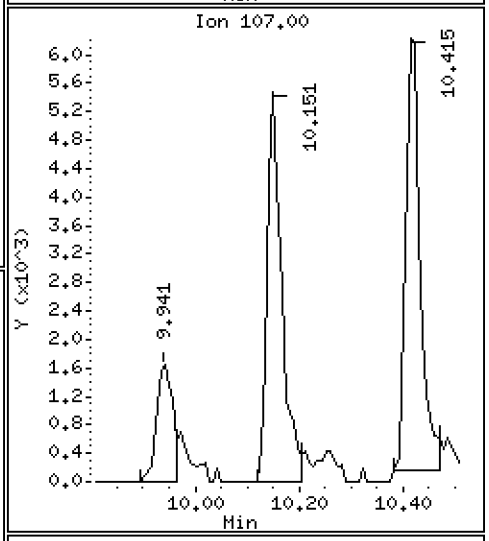
13 2-Methylphenol

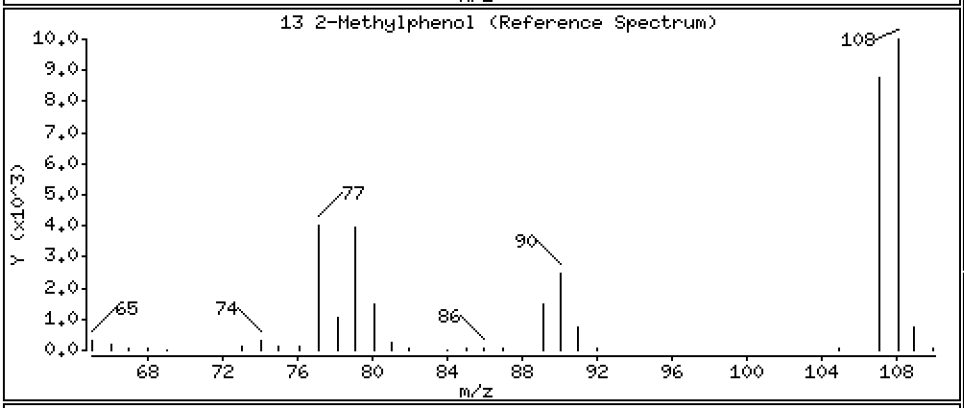
Concentration: 0.4802 ug/mL

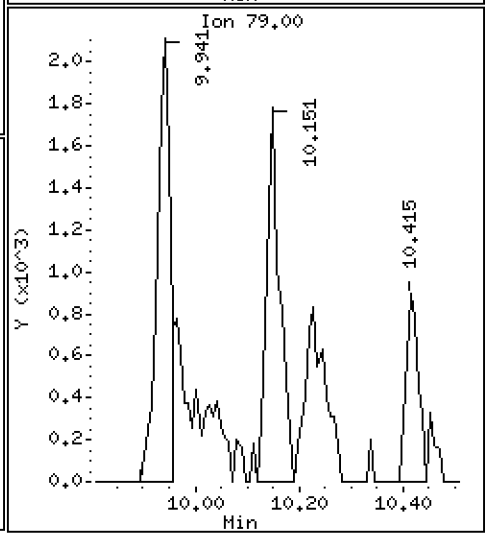


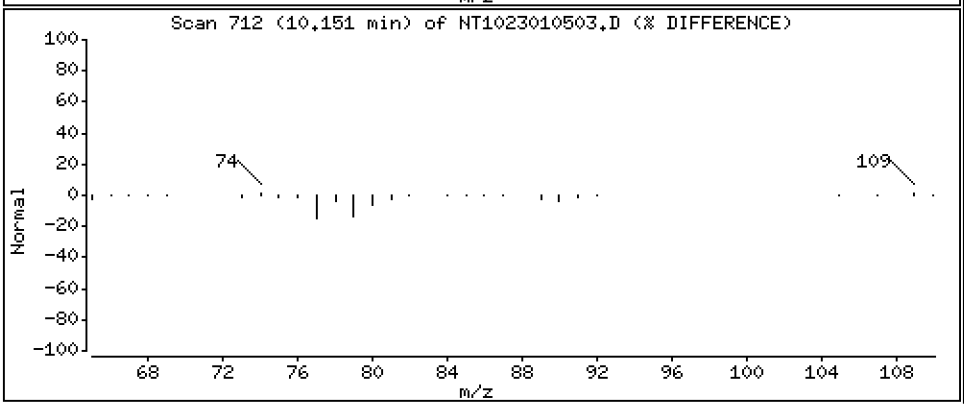












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

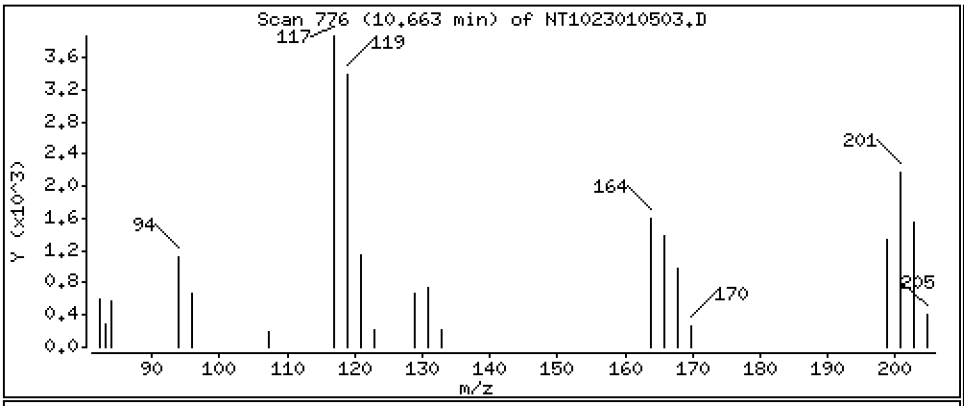
Operator: VTS

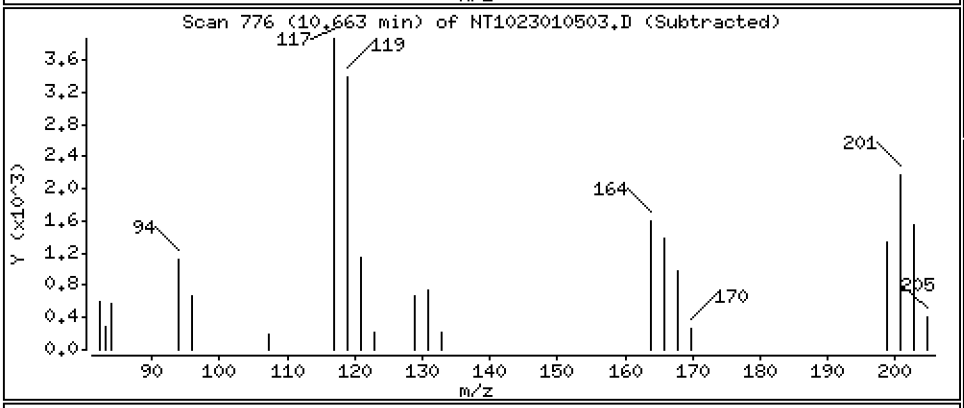
Column phase: ZB-5msi

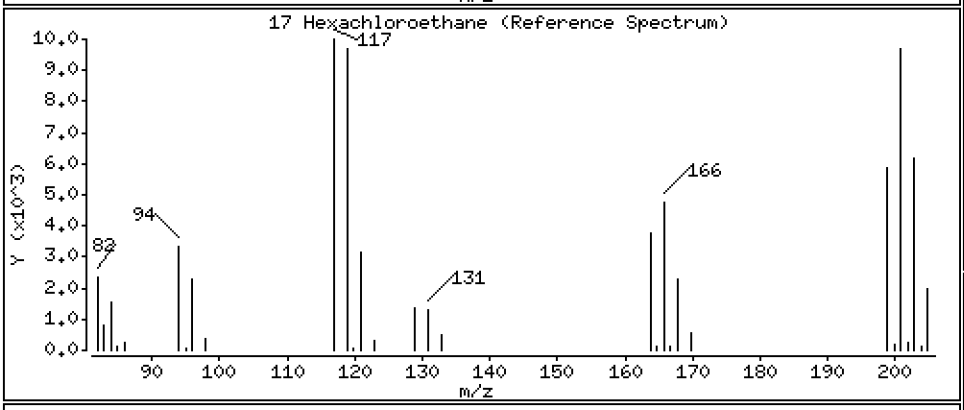
Column diameter: 0.25

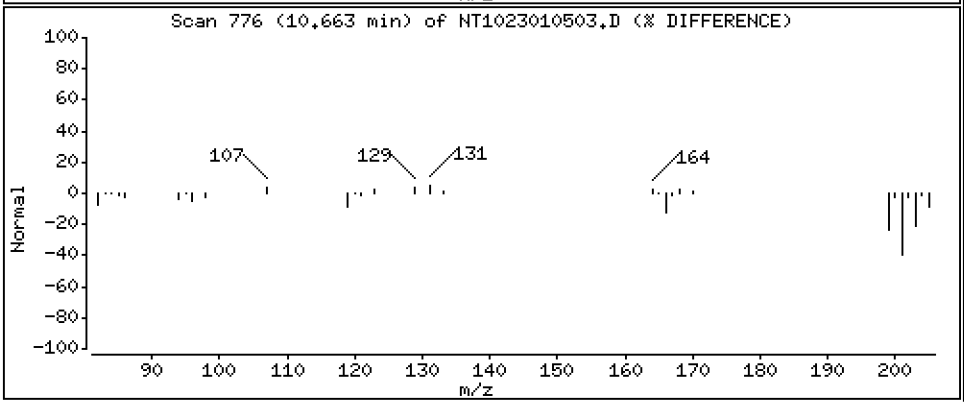
17 Hexachloroethane

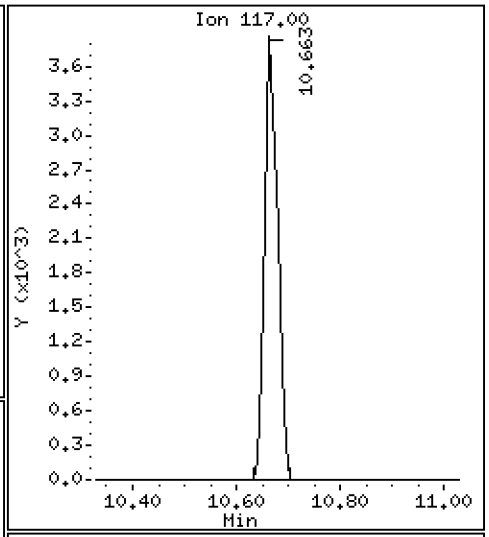
Concentration: 0.4667 ug/mL

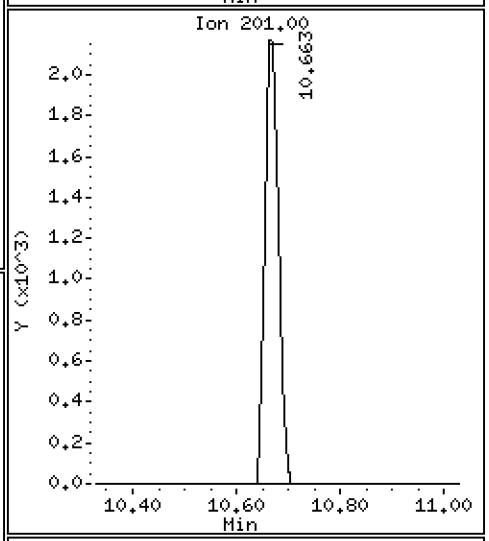


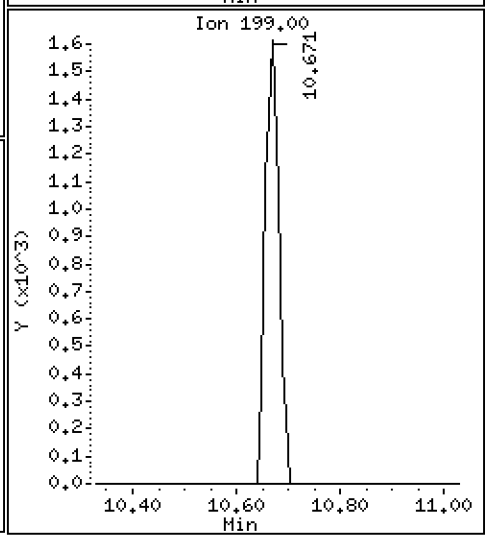












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

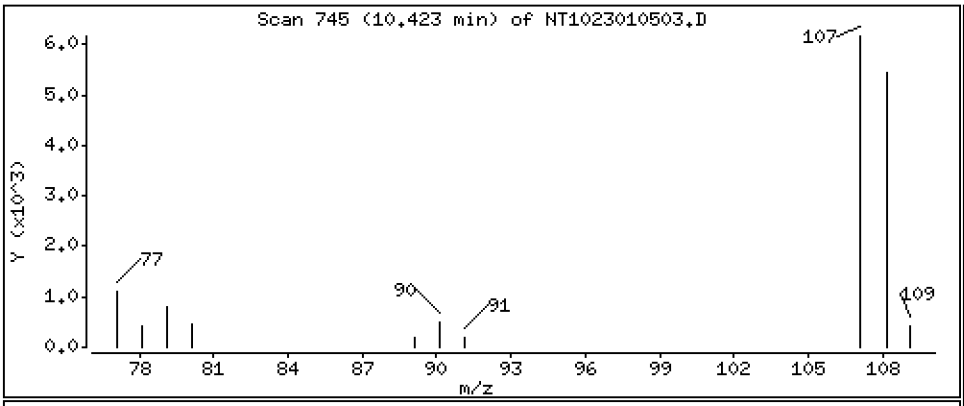
Operator: VTS

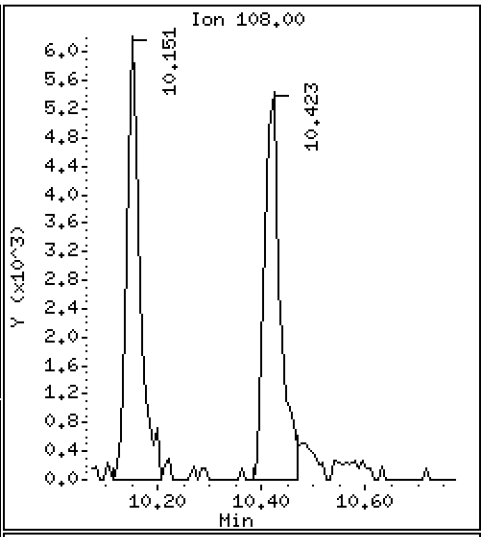
Column phase: ZB-5msi

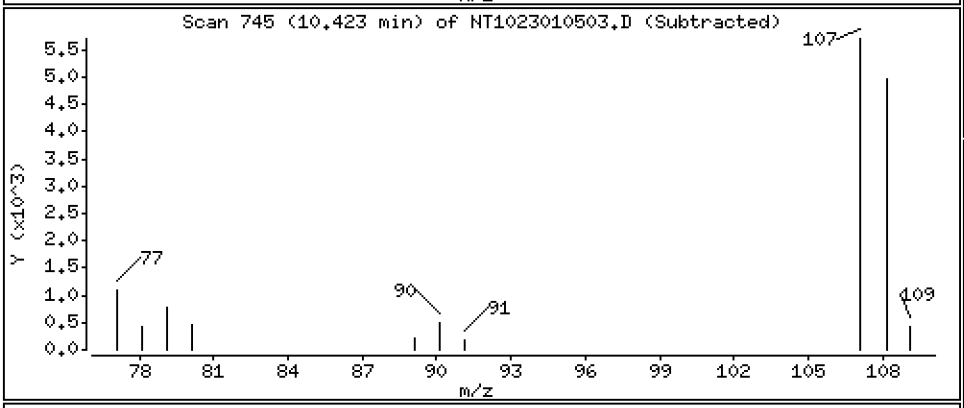
Column diameter: 0.25

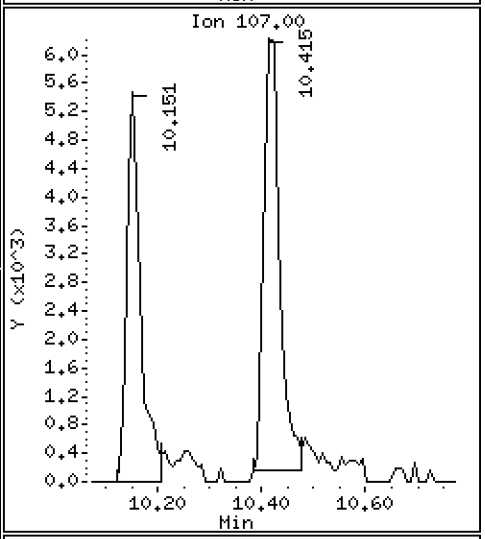
15 4-Methylphenol

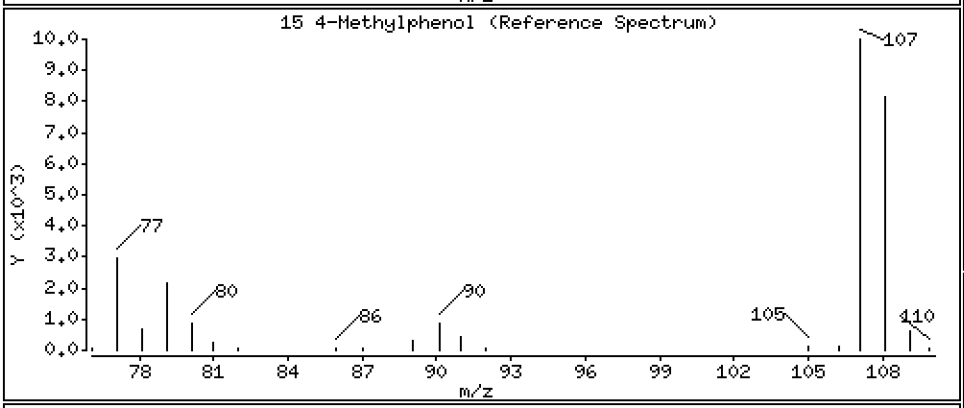
Concentration: 0.6537 ug/mL

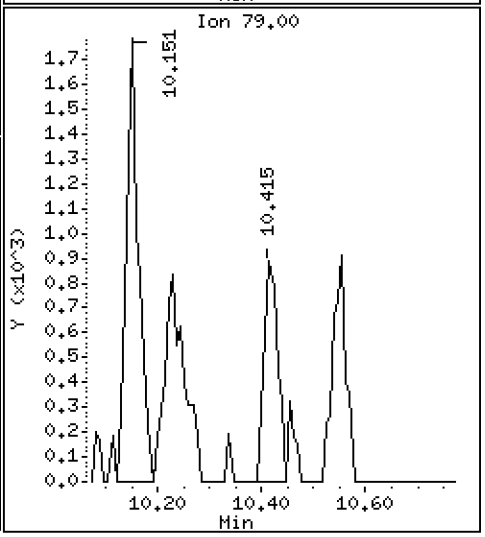


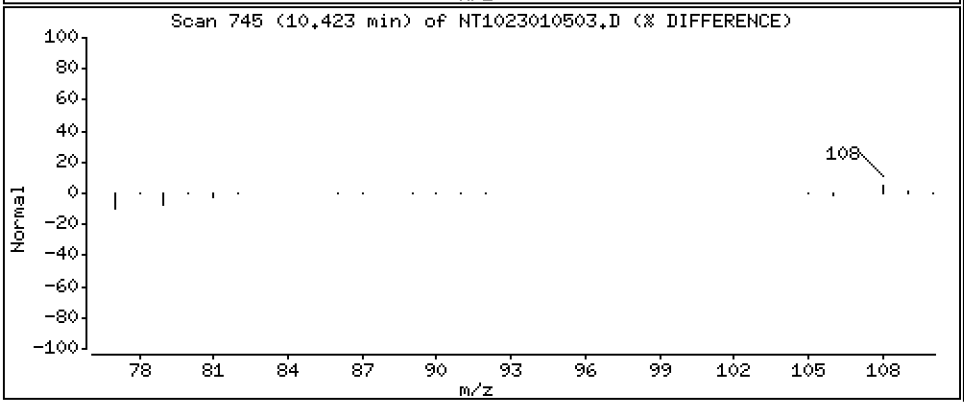












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

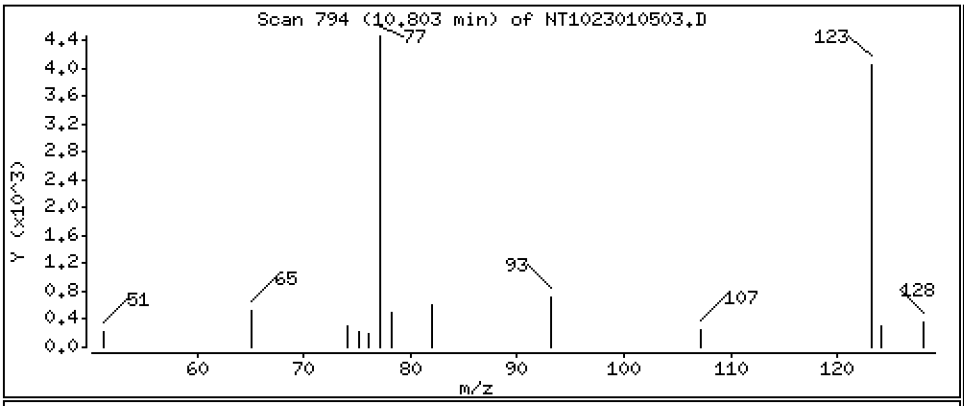
Operator: VTS

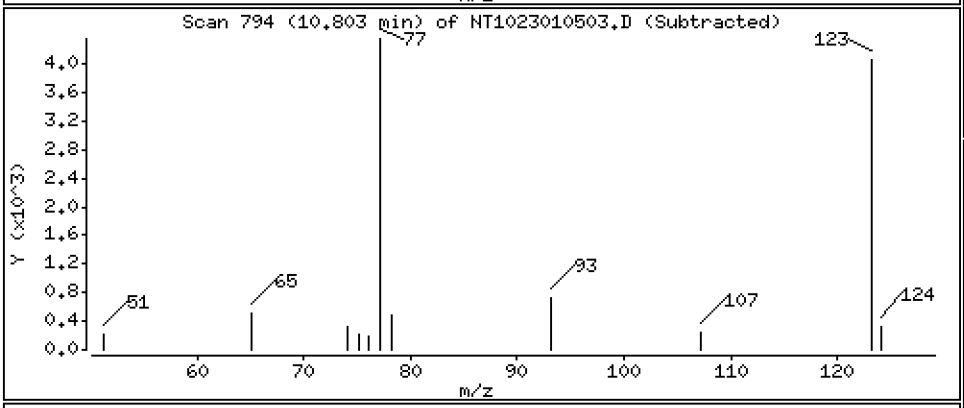
Column phase: ZB-5msi

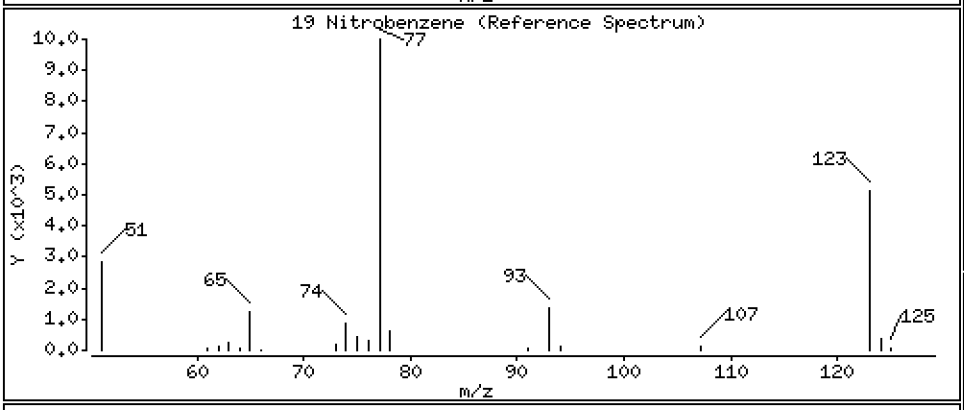
Column diameter: 0.25

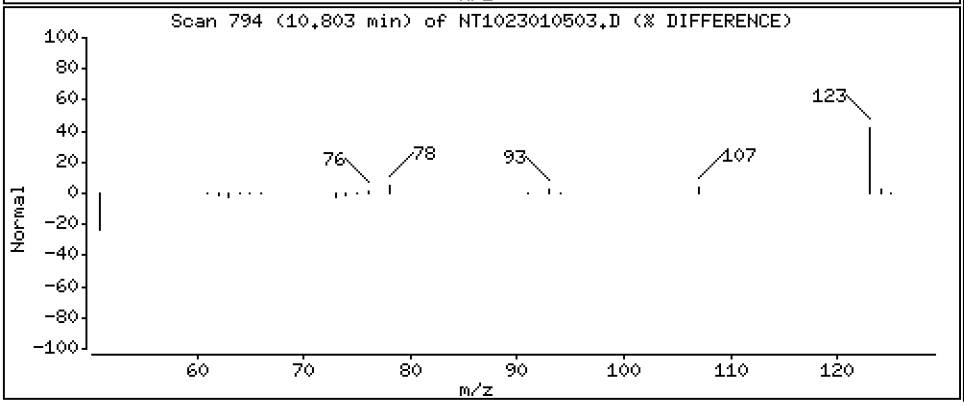
19 Nitrobenzene

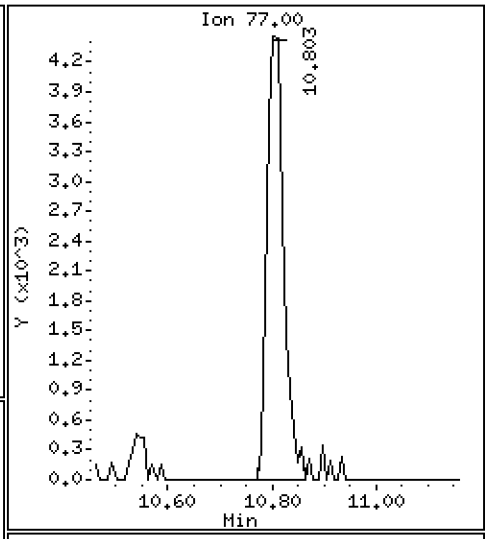
Concentration: 0.4464 ug/mL

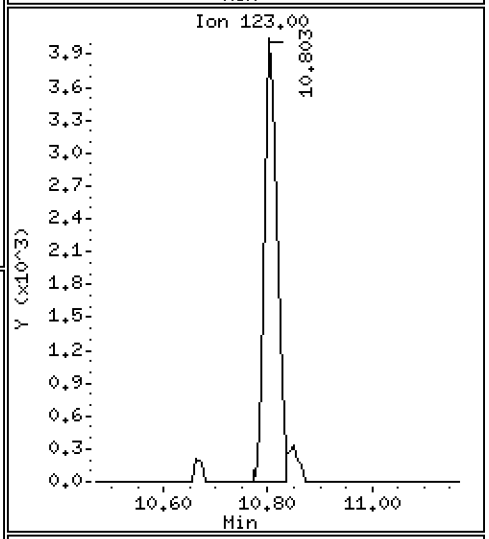


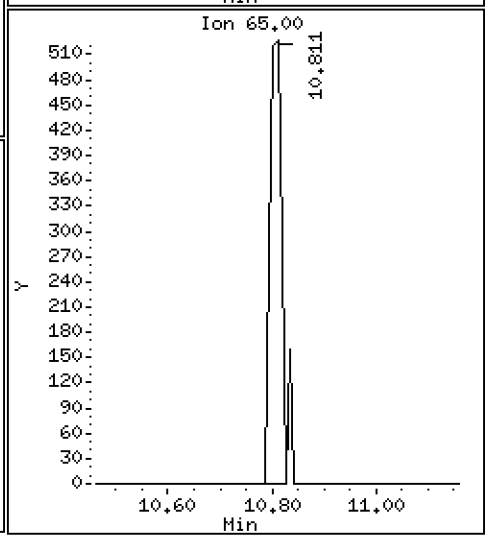












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

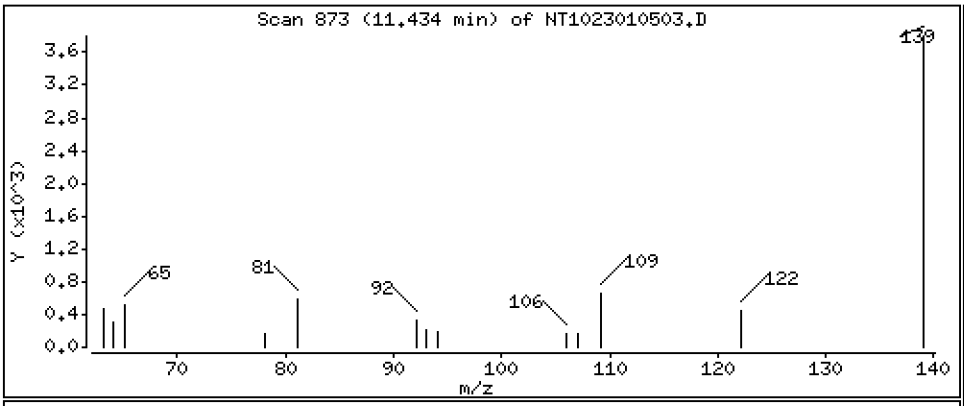
Operator: VTS

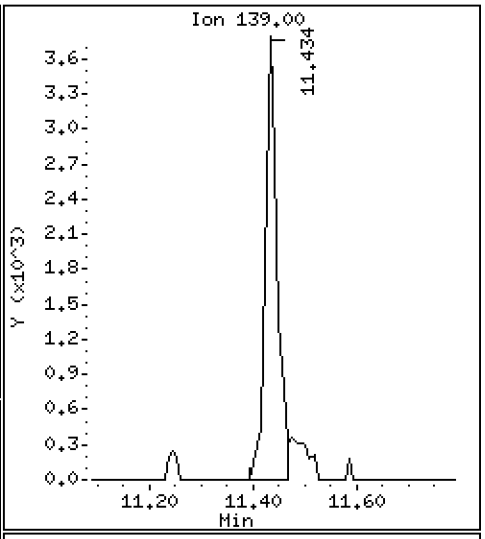
Column phase: ZB-5msi

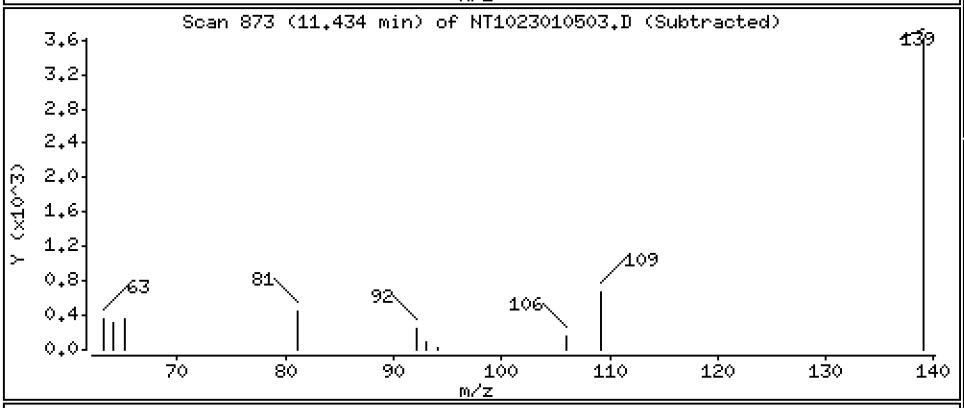
Column diameter: 0.25

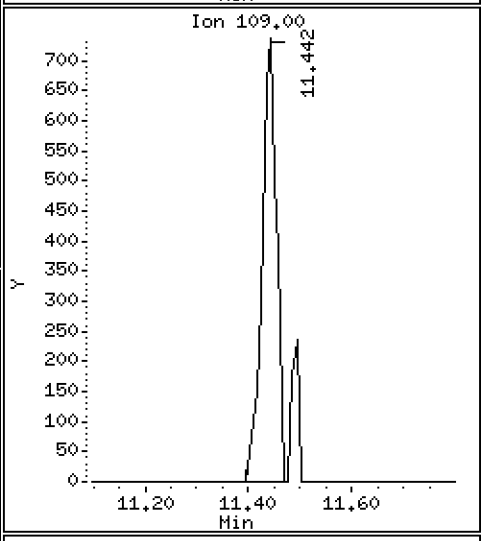
21 2-Nitrophenol

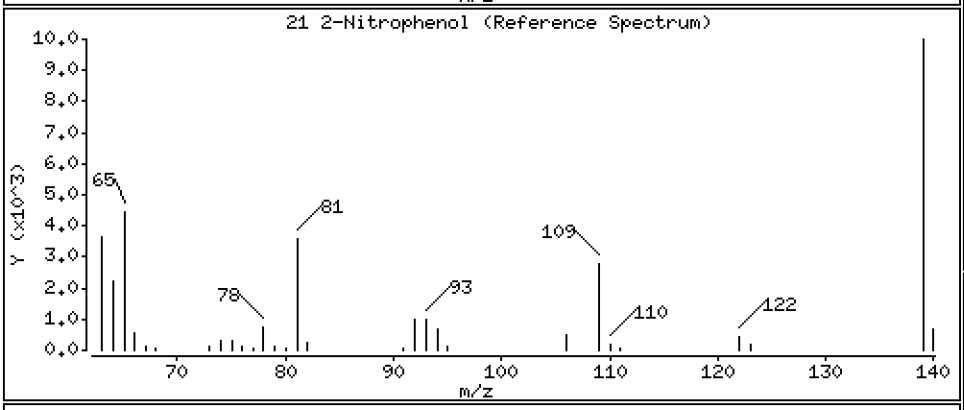
Concentration: 0.3666 ug/mL

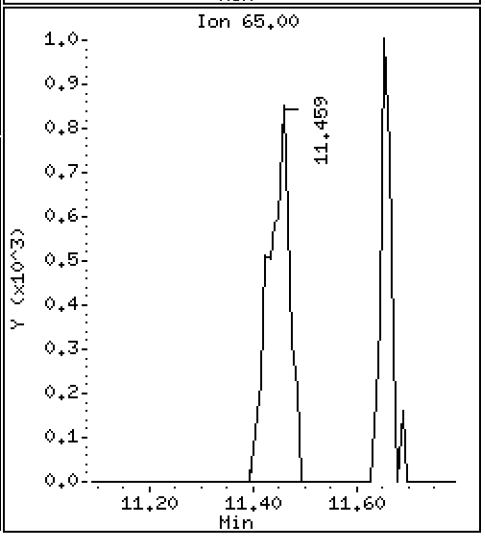


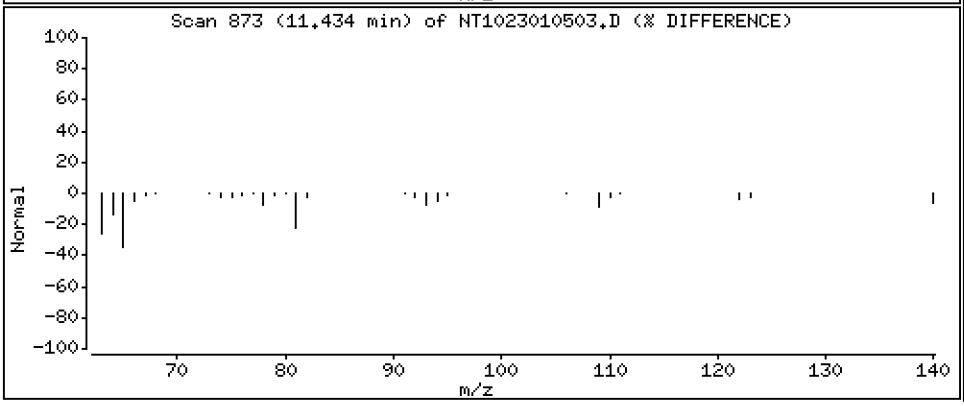












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

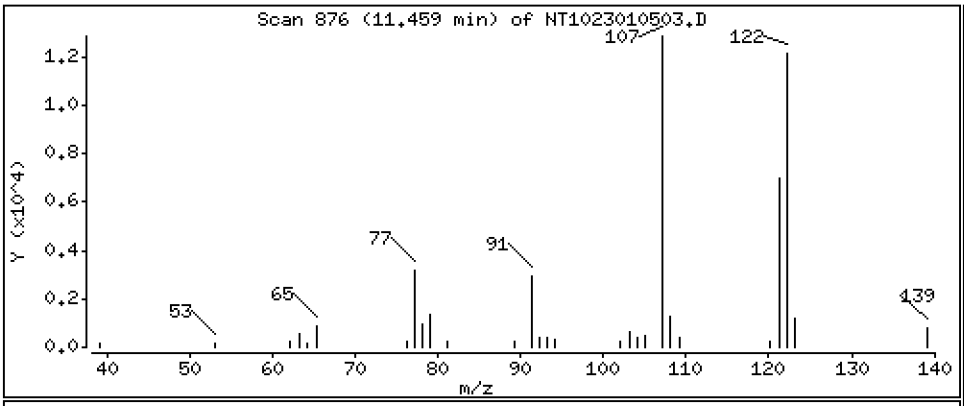
Operator: VTS

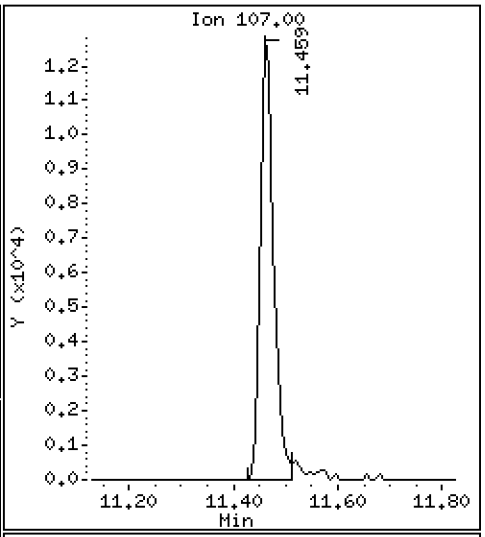
Column phase: ZB-5msi

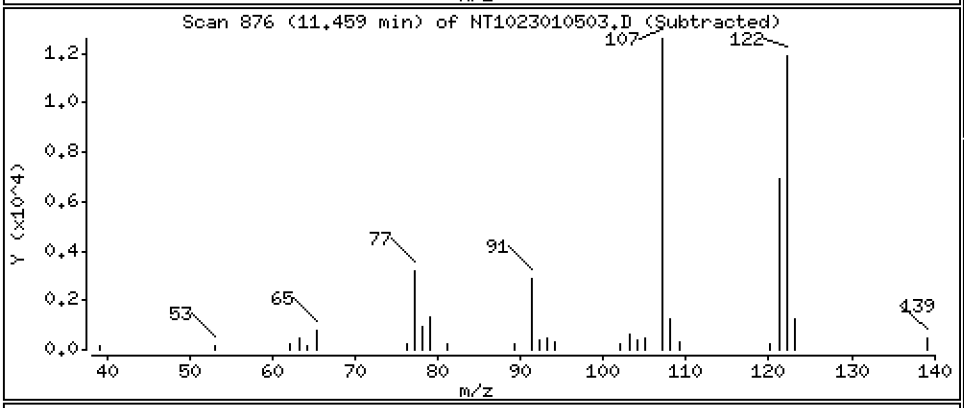
Column diameter: 0.25

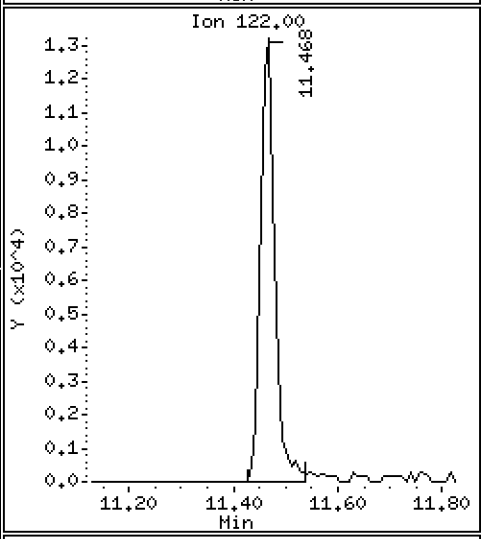
22 2,4-Dimethylphenol

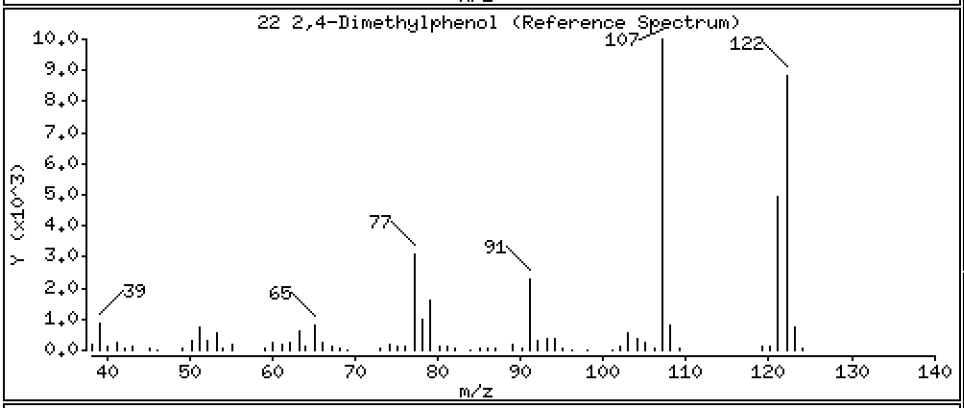
Concentration: 0.7976 ug/mL

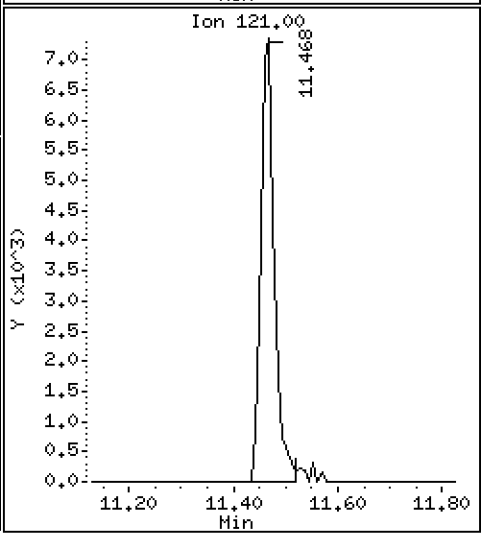


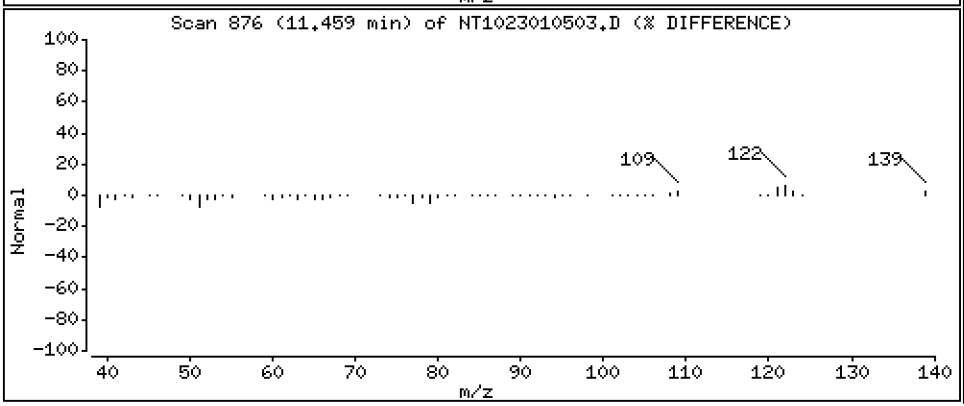












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

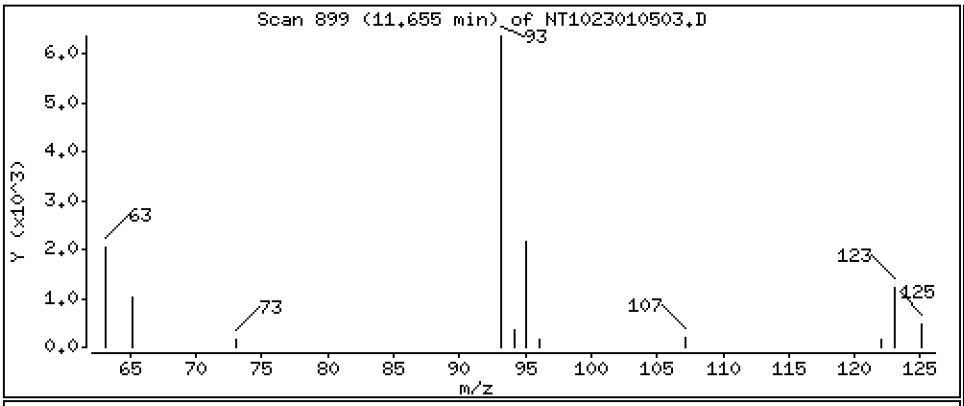
Operator: VTS

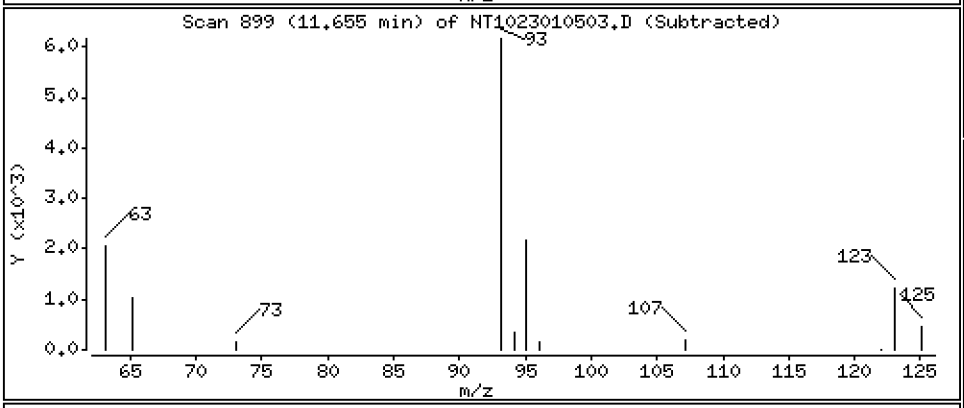
Column phase: ZB-5msi

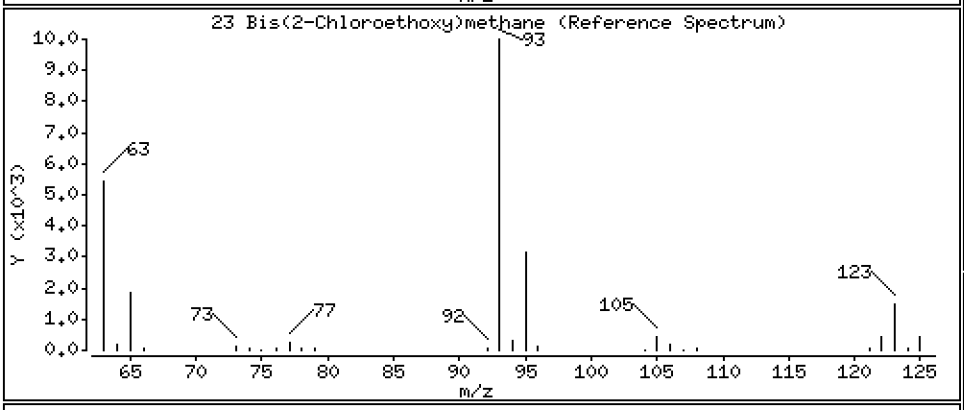
Column diameter: 0.25

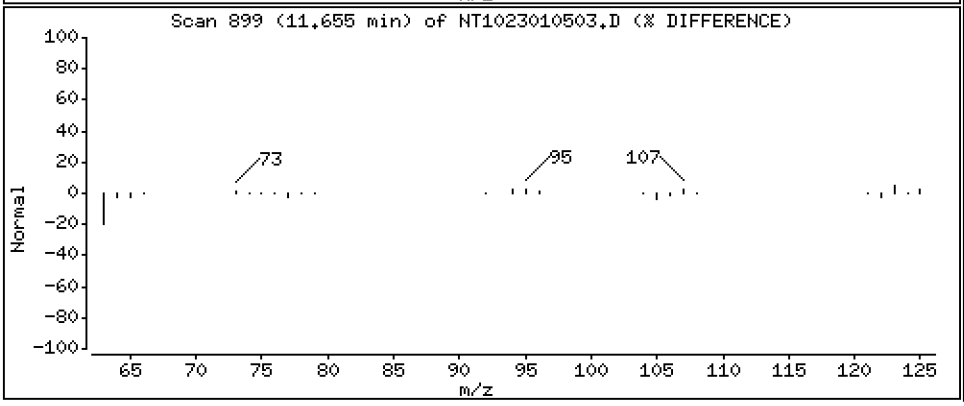
23 Bis(2-Chloroethoxy)methane

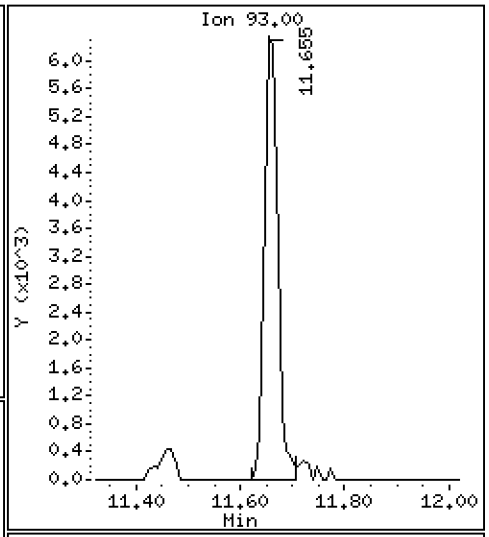
Concentration: 0.4657 ug/mL

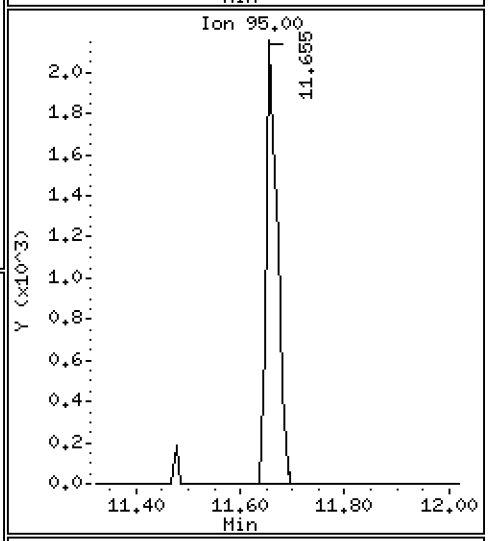


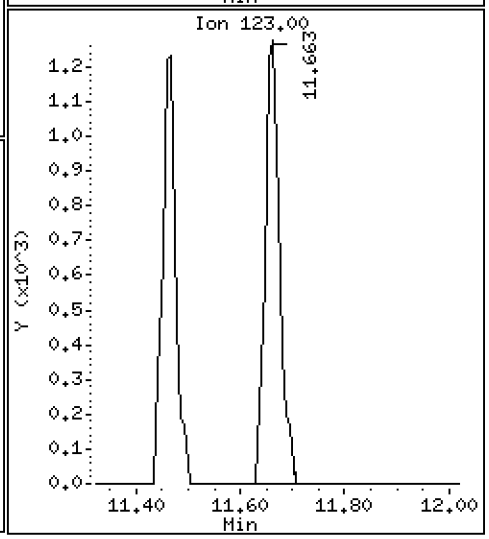












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

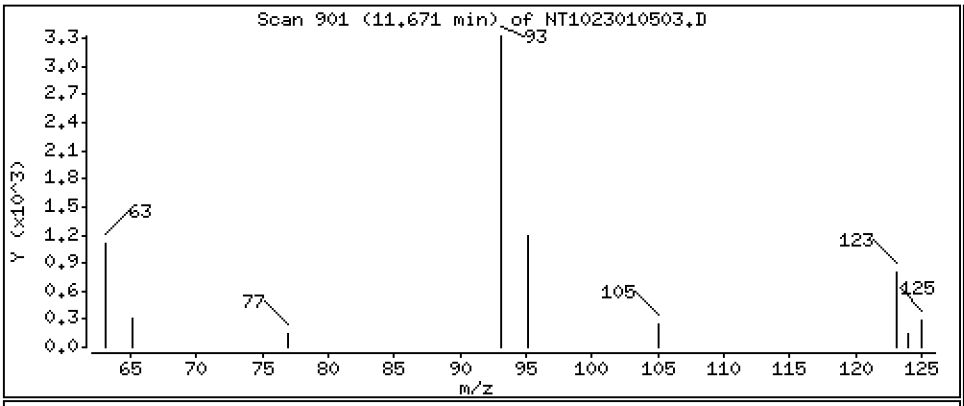
Operator: VTS

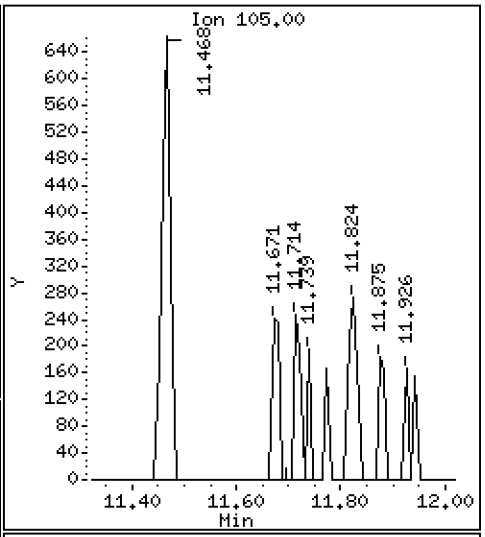
Column phase: ZB-5msi

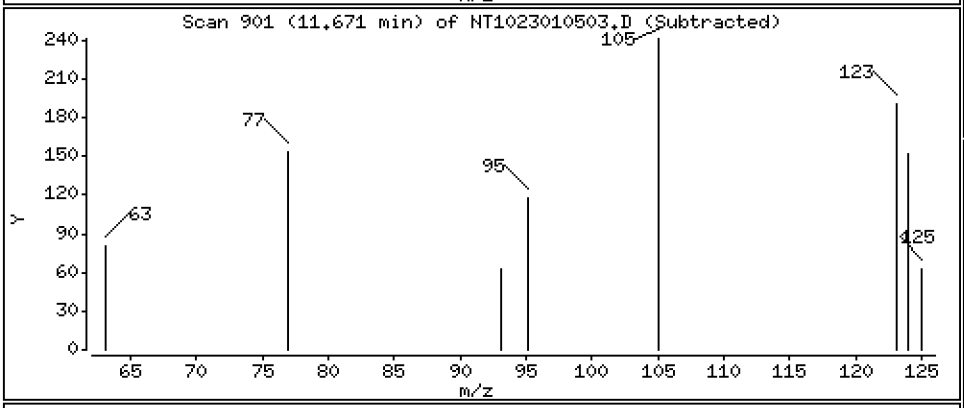
Column diameter: 0.25

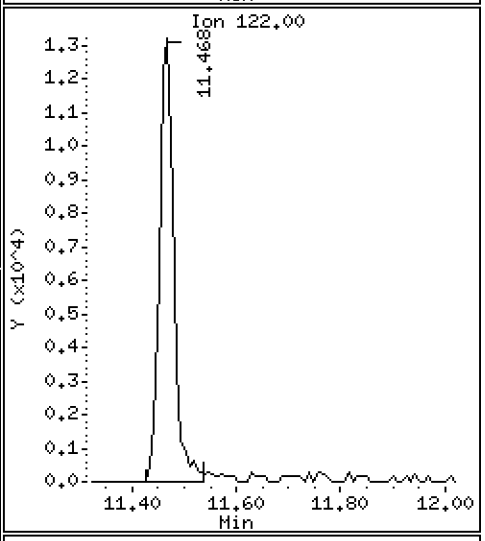
24 Benzoic acid

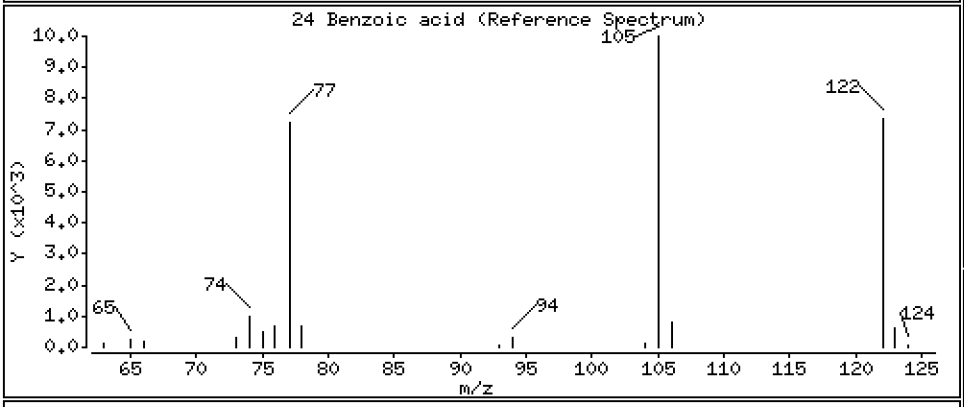
Concentration: 0.02070 ug/mL

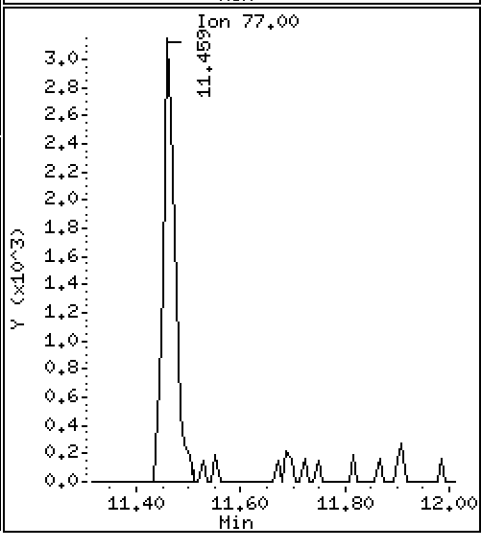


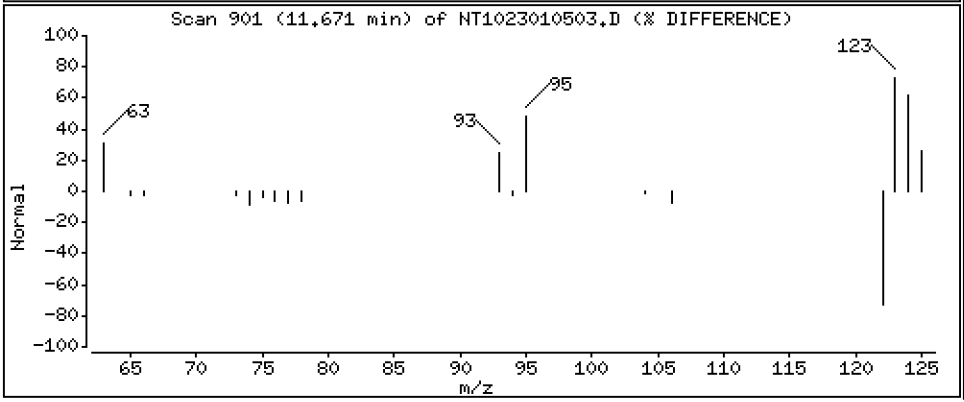












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

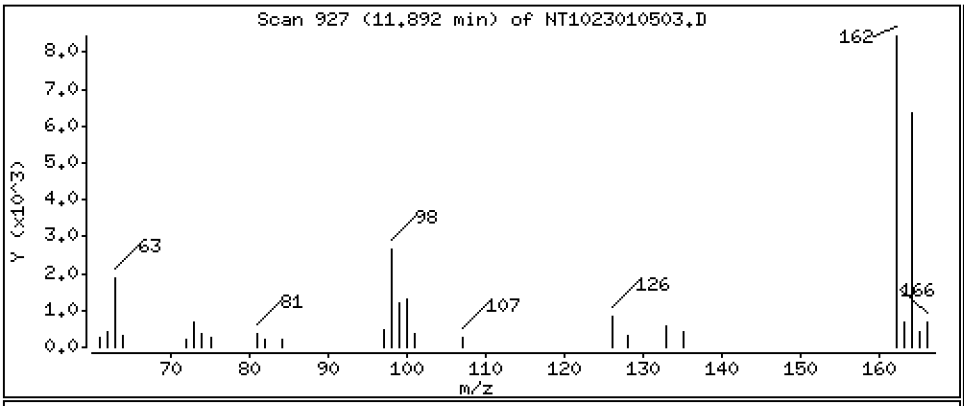
Operator: VTS

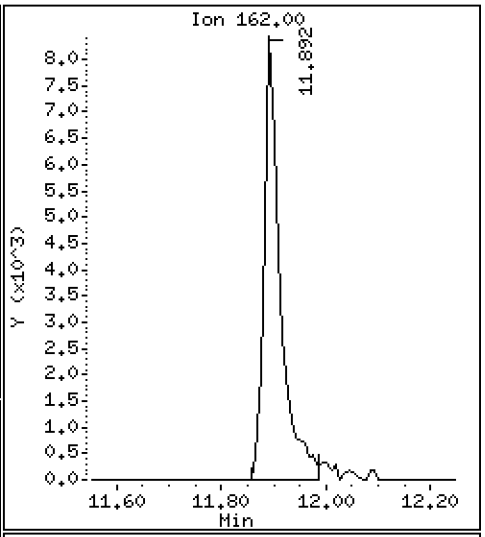
Column phase: ZB-5msi

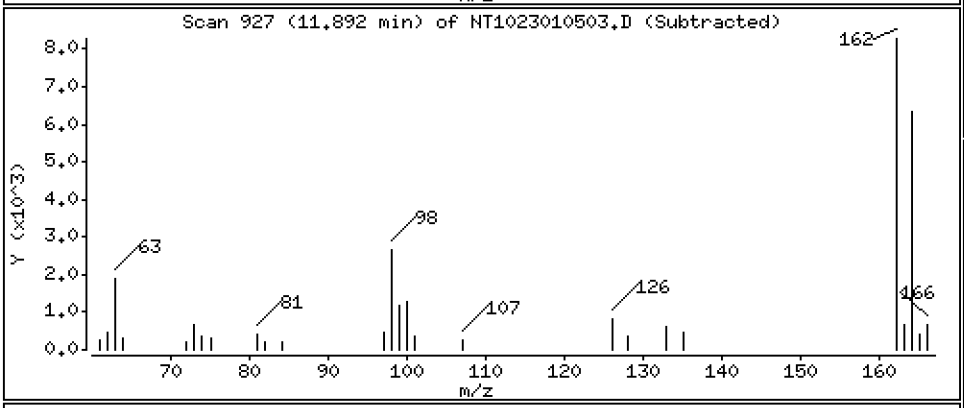
Column diameter: 0.25

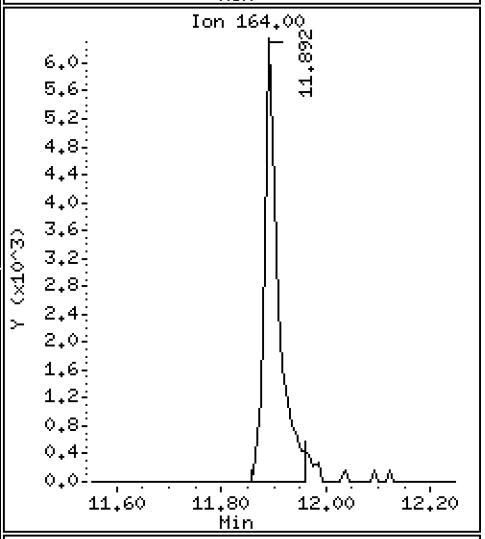
25 2,4-Dichlorophenol

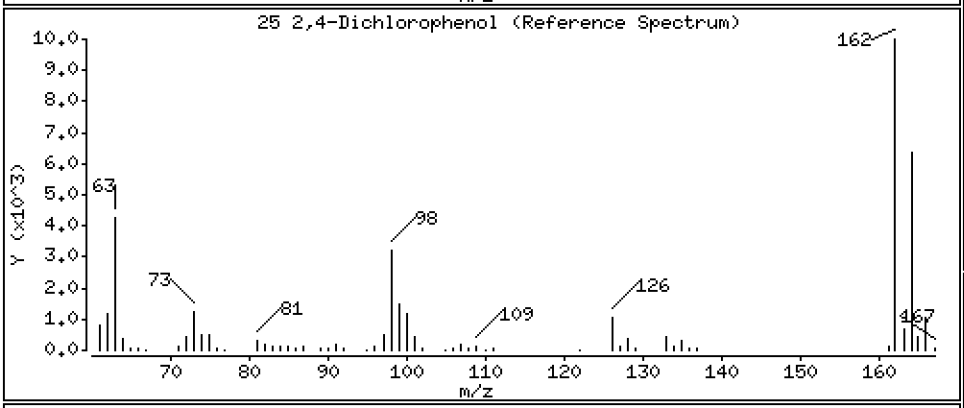
Concentration: 0.8305 ug/mL

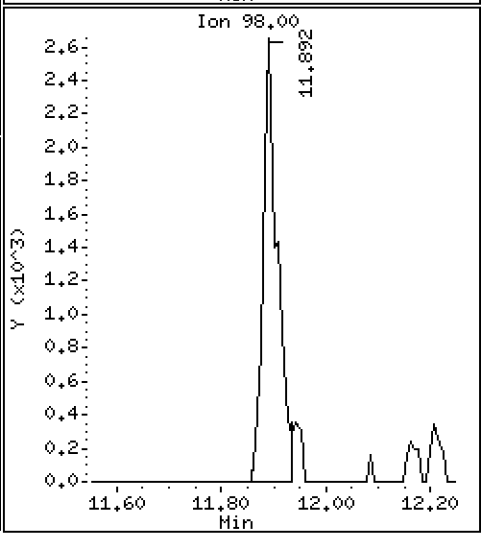


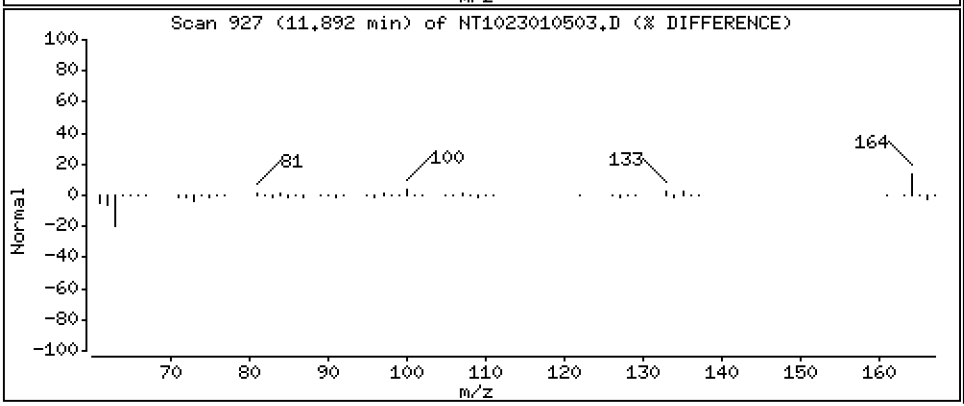












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

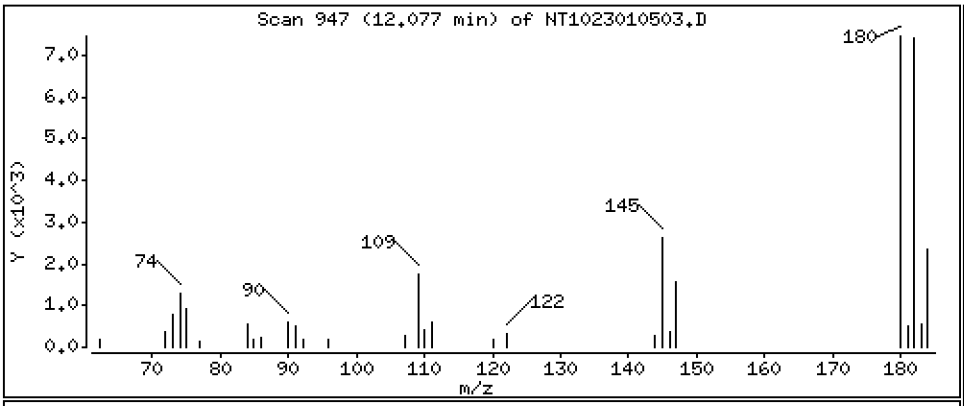
Operator: VTS

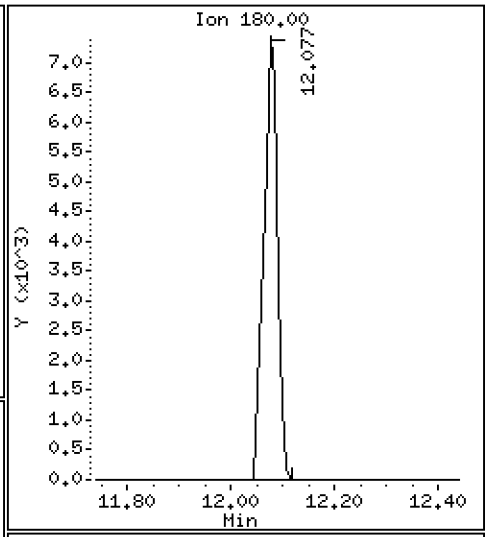
Column phase: ZB-5msi

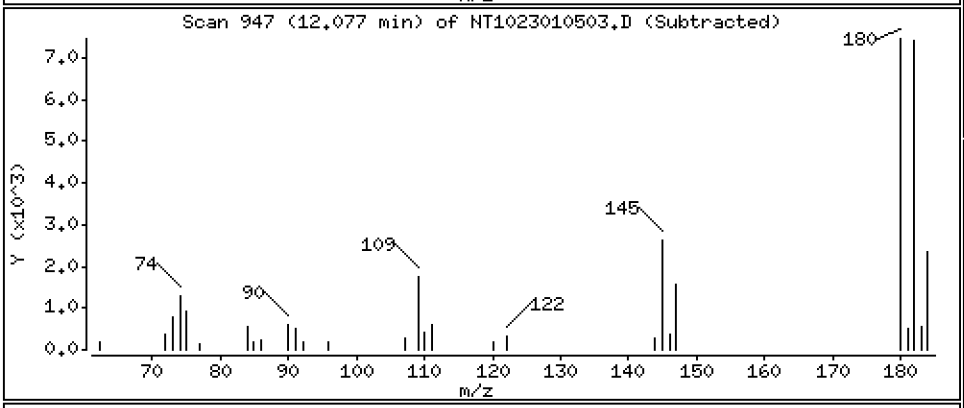
Column diameter: 0.25

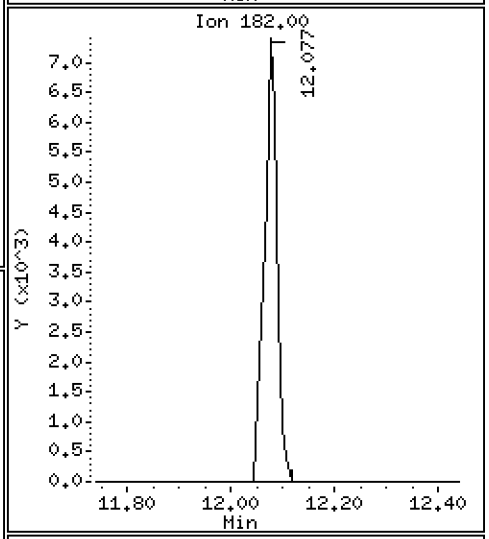
26 1,2,4-Trichlorobenzene

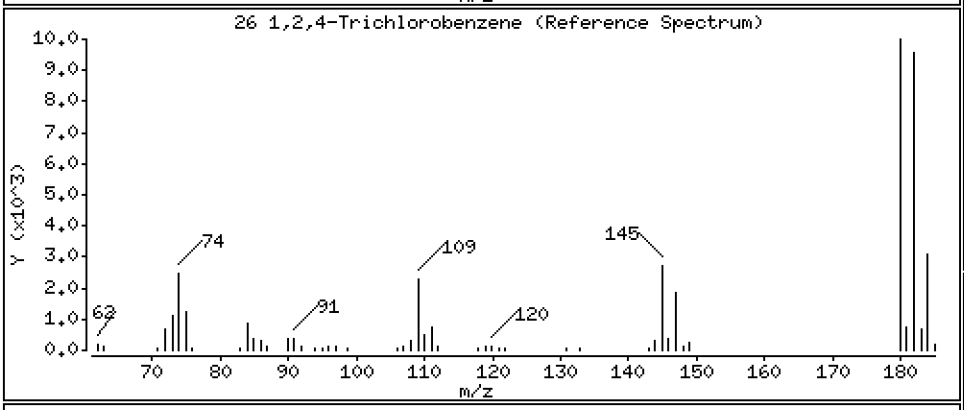
Concentration: 0.6190 ug/mL

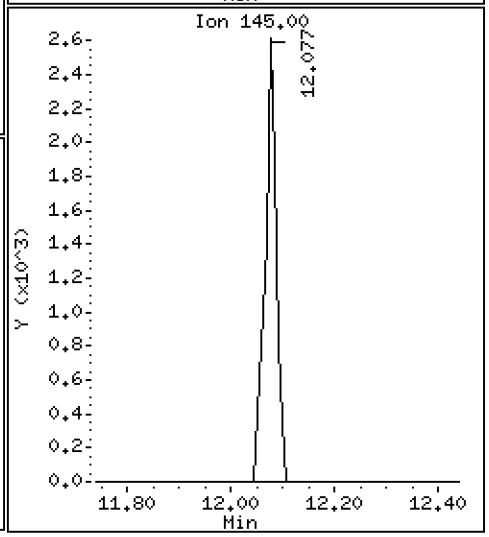


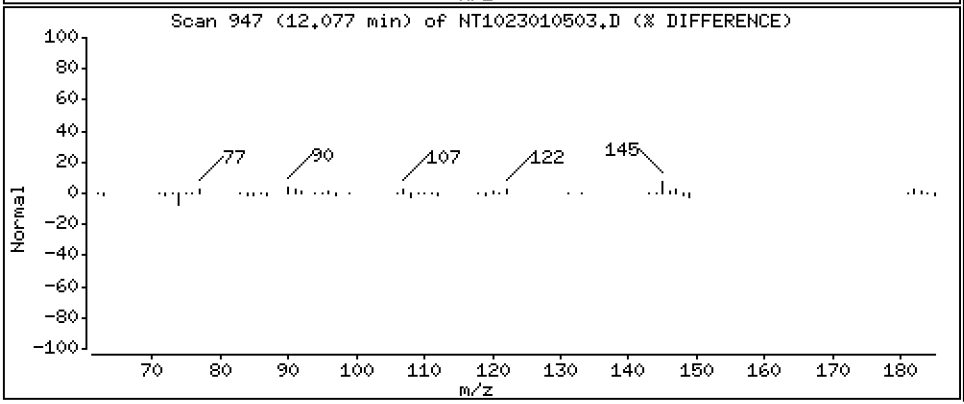












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

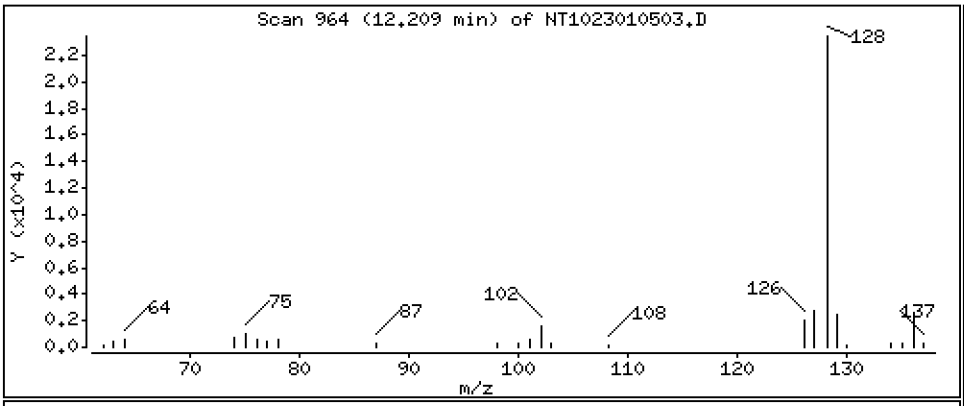
Operator: VTS

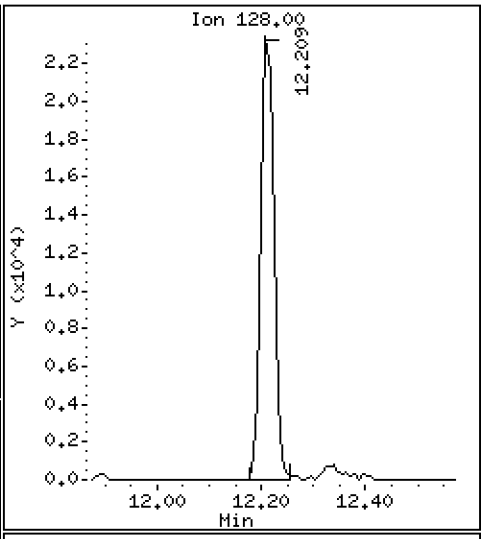
Column phase: ZB-5msi

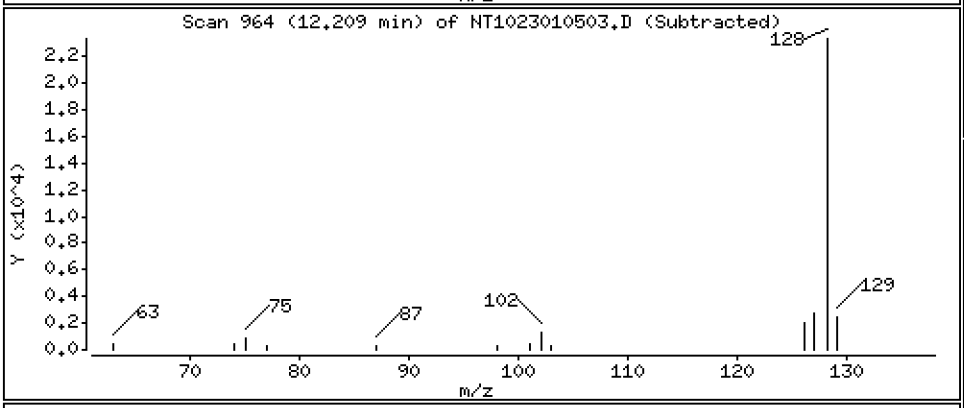
Column diameter: 0.25

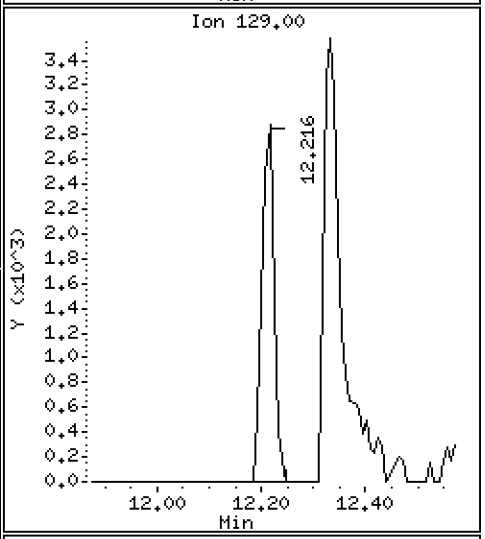
28 Naphthalene

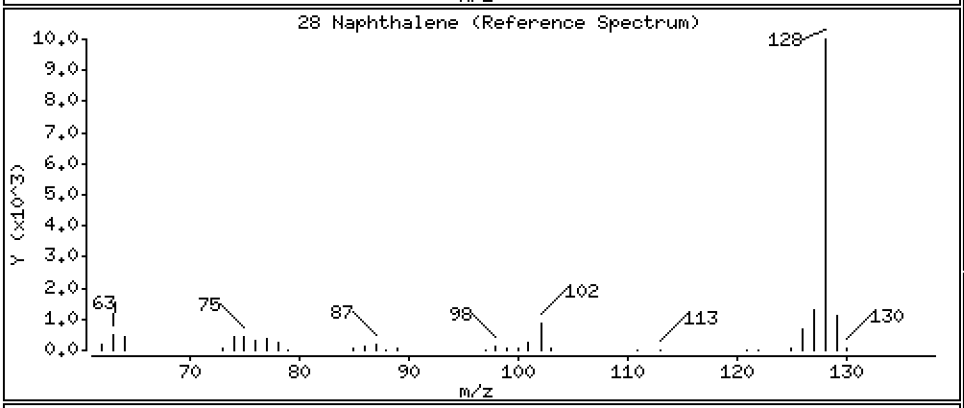
Concentration: 0.4811 ug/mL

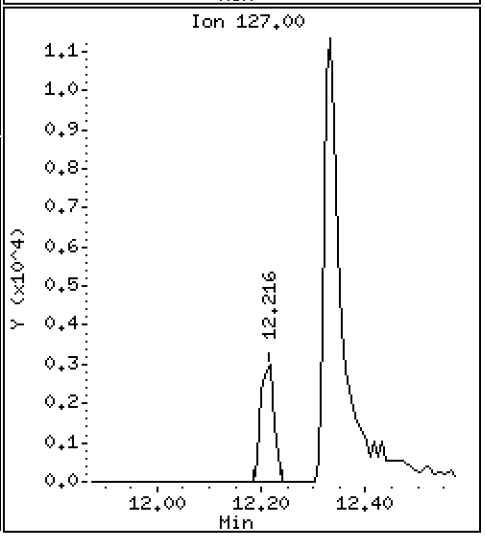


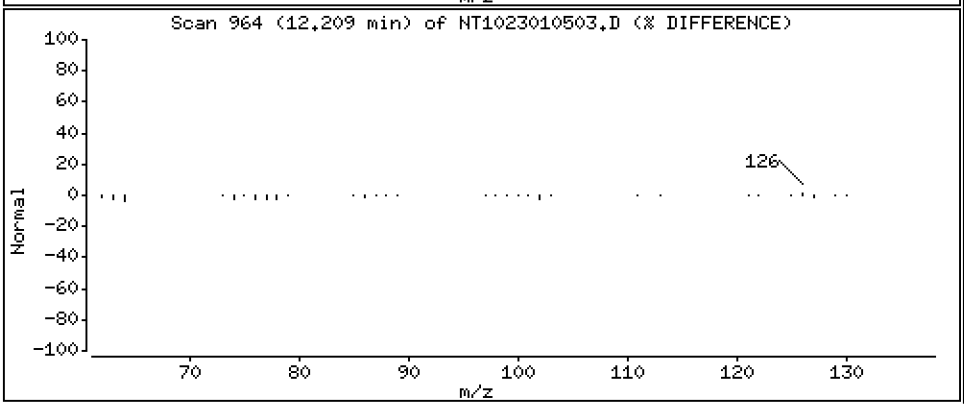












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

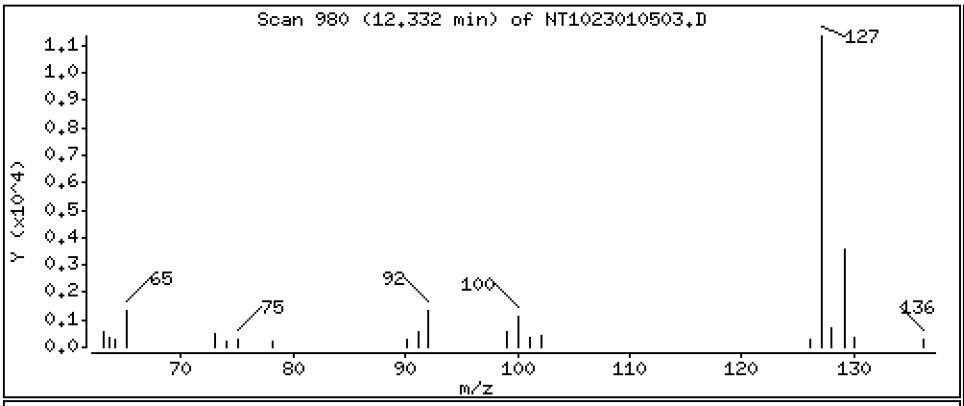
Operator: VTS

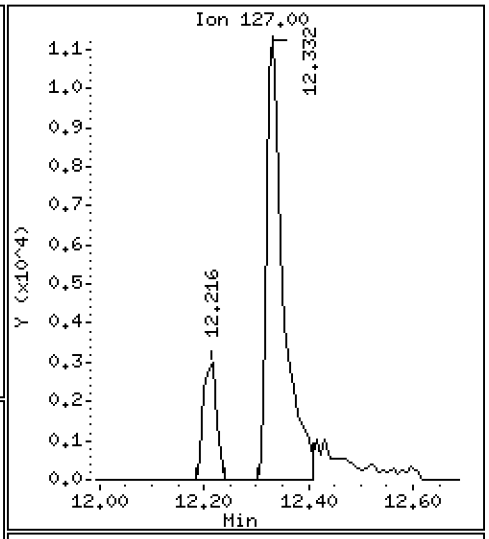
Column phase: ZB-5msi

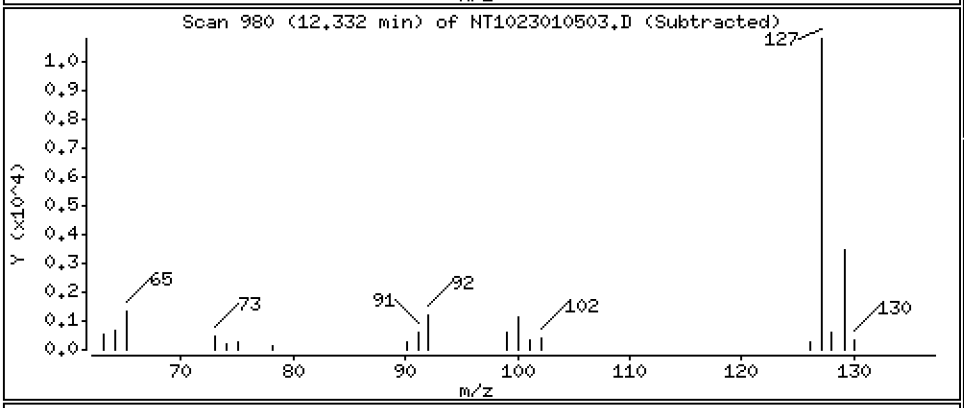
Column diameter: 0.25

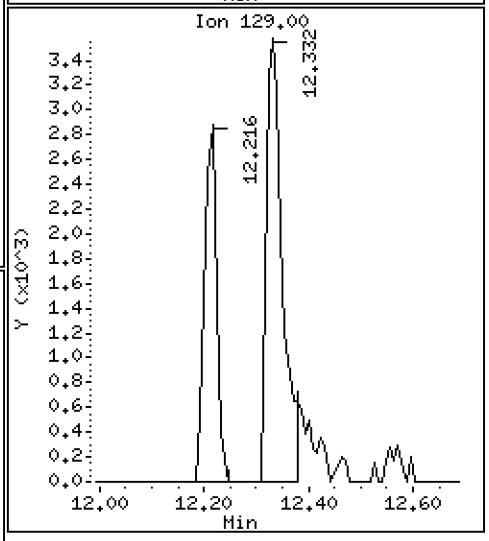
29 4-Chloroaniline

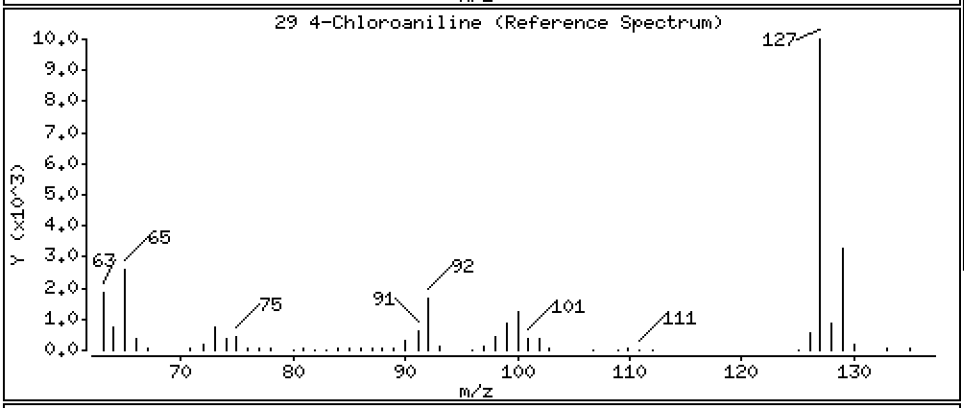
Concentration: 0.8326 ug/mL

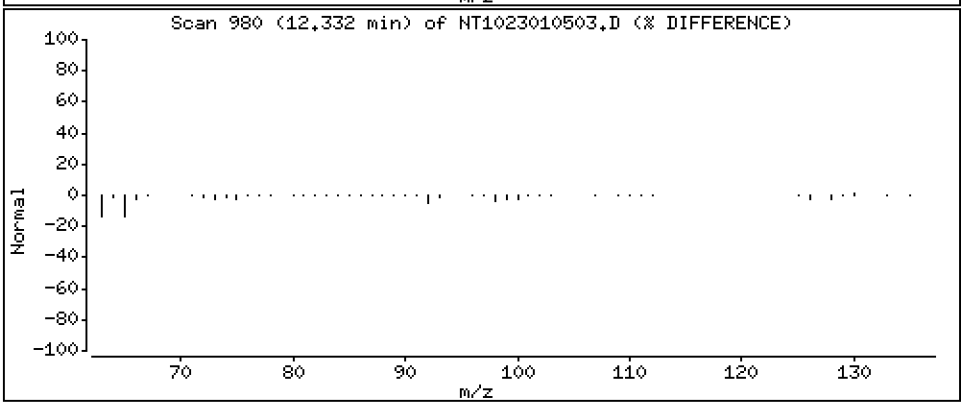












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

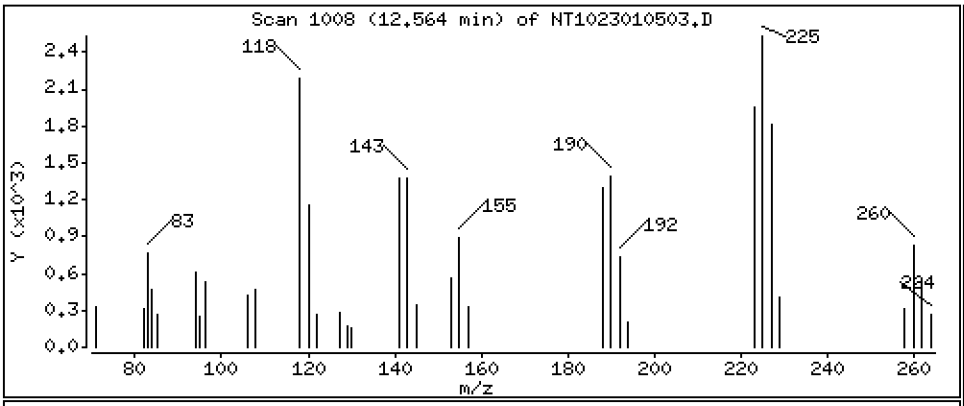
Operator: VTS

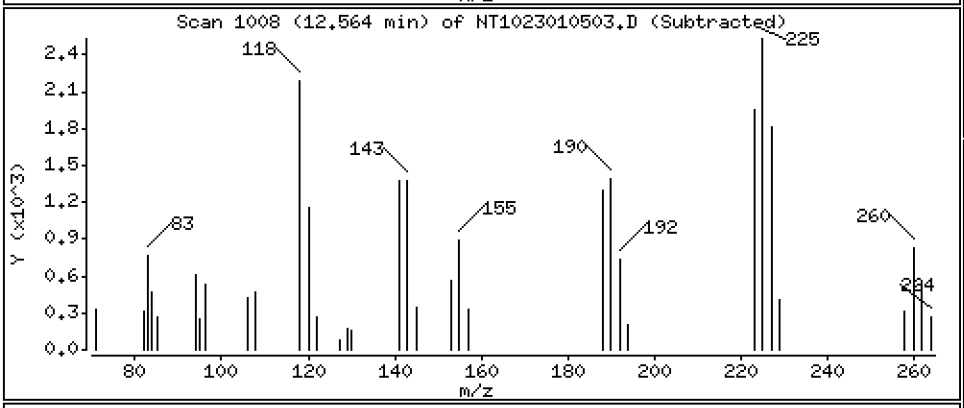
Column phase: ZB-5msi

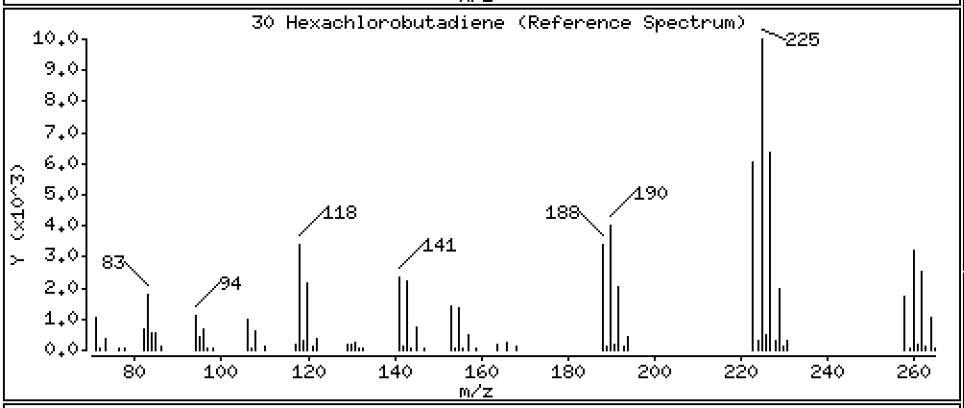
Column diameter: 0.25

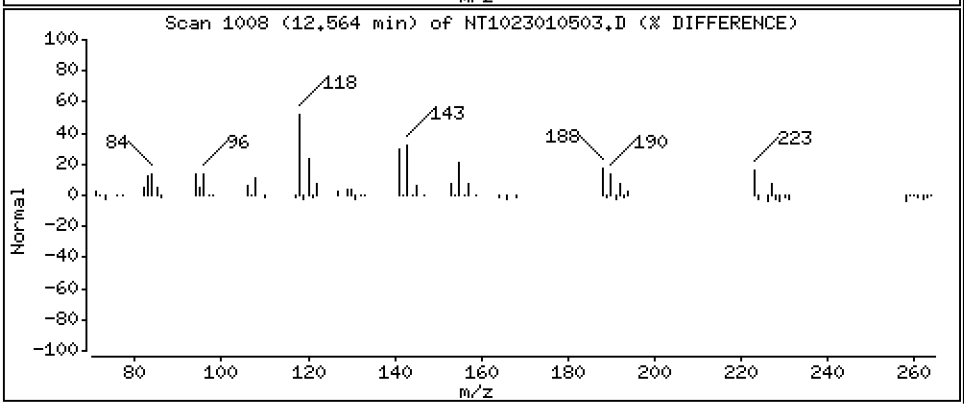
30 Hexachlorobutadiene

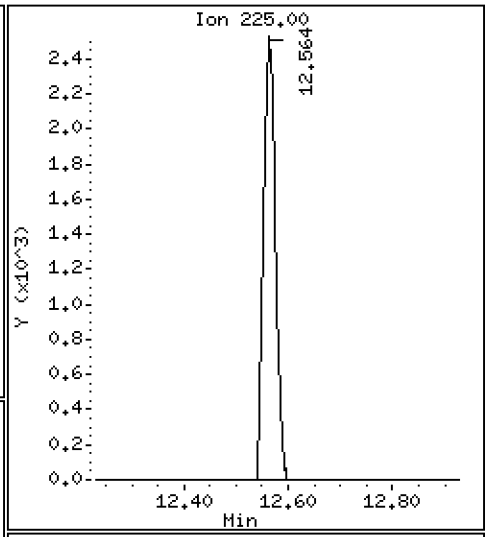
Concentration: 0.4636 ug/mL

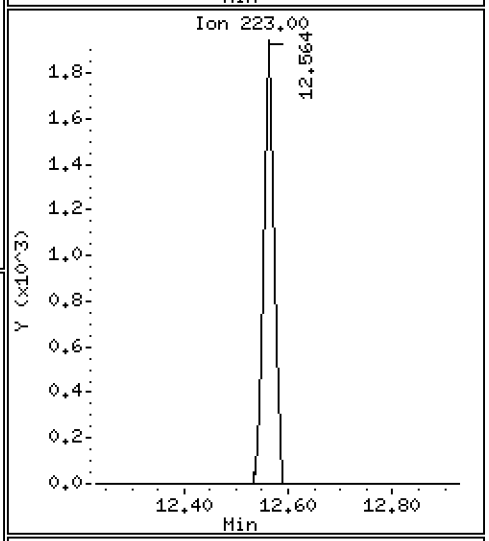


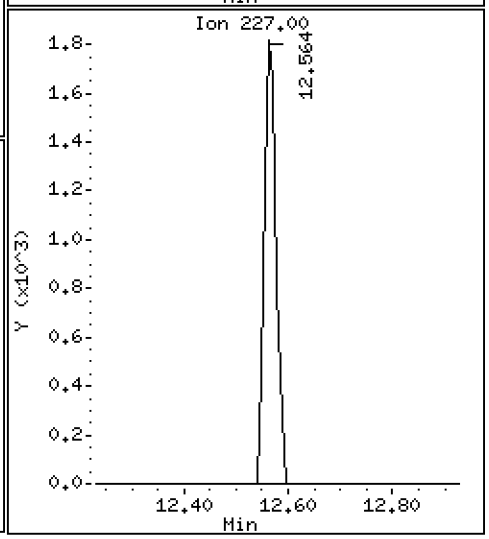












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

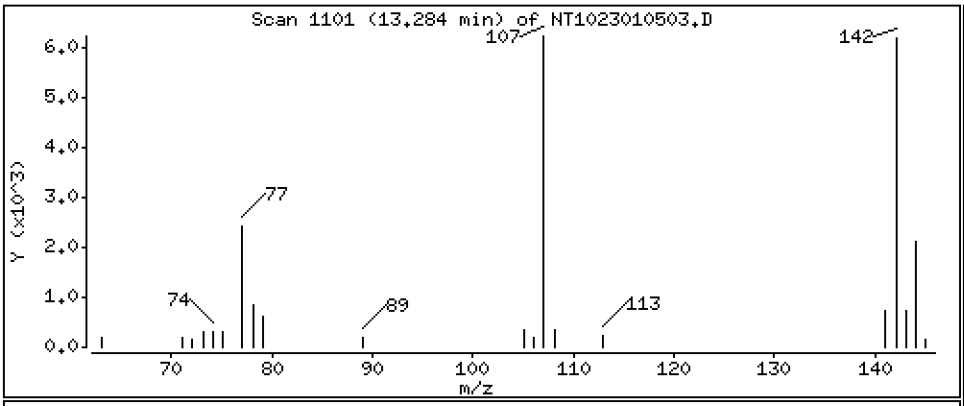
Operator: VTS

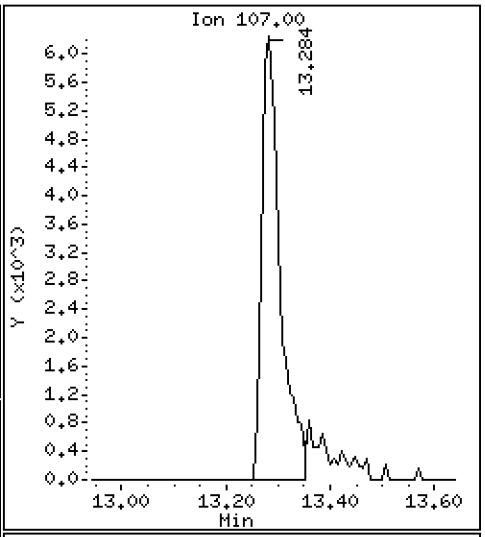
Column phase: ZB-5msi

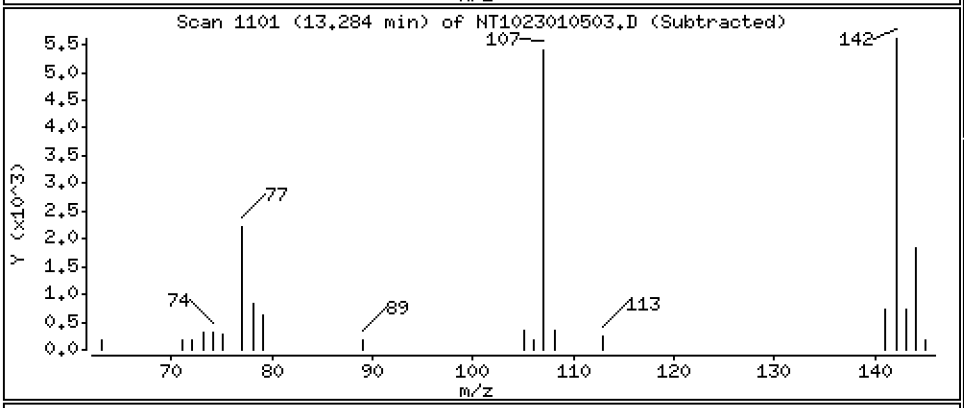
Column diameter: 0.25

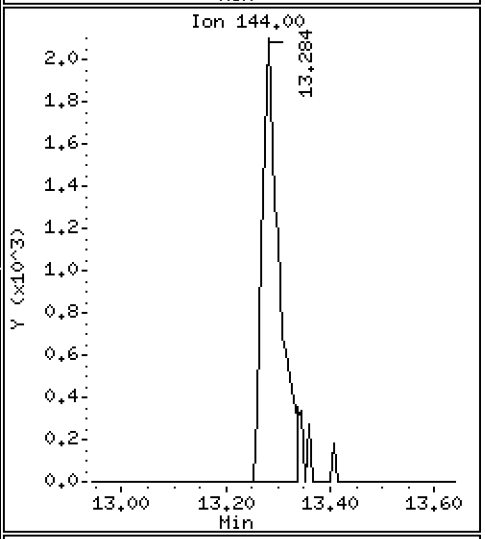
31 4-Chloro-3-methylphenol

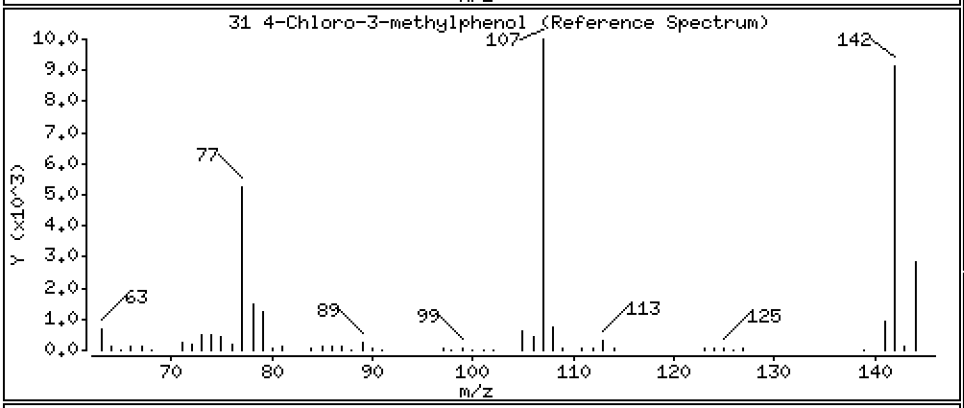
Concentration: 0.6568 ug/mL

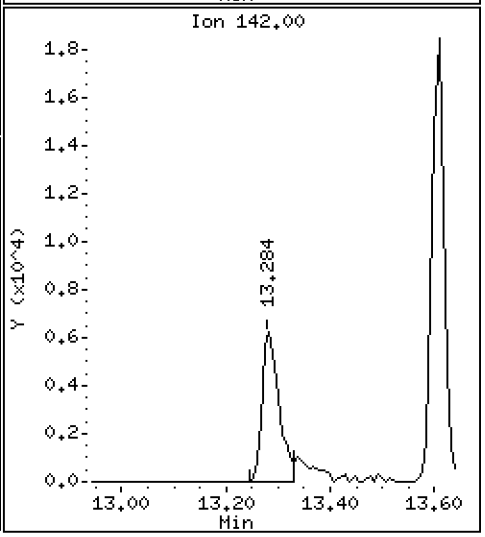


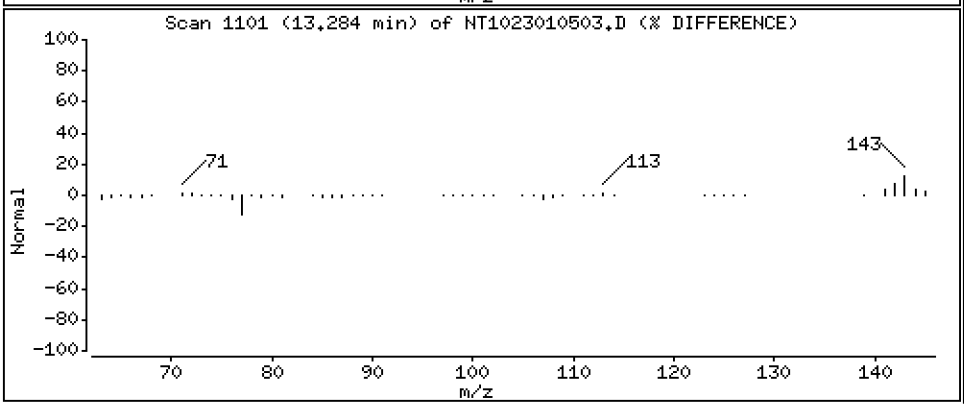












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

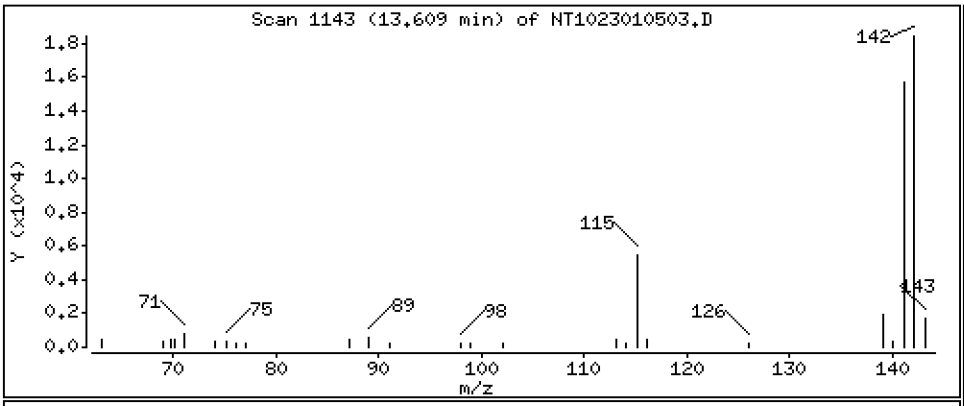
Operator: VTS

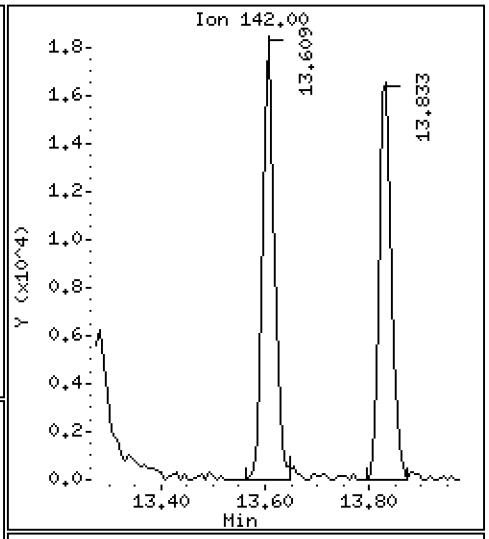
Column phase: ZB-5msi

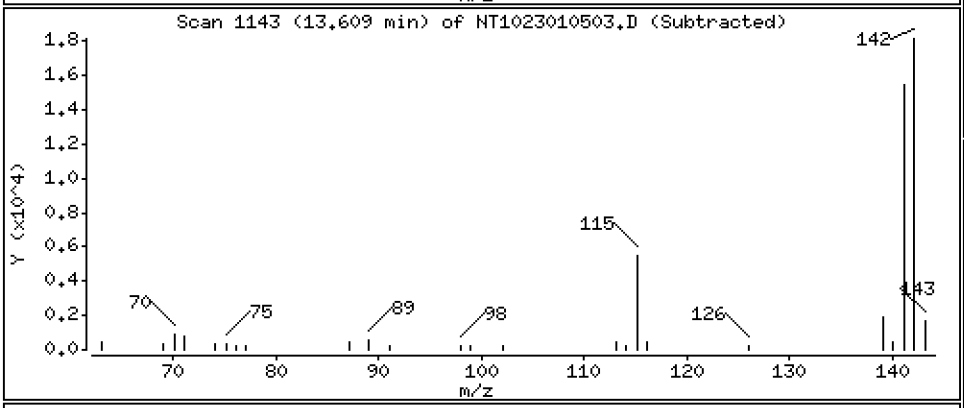
Column diameter: 0.25

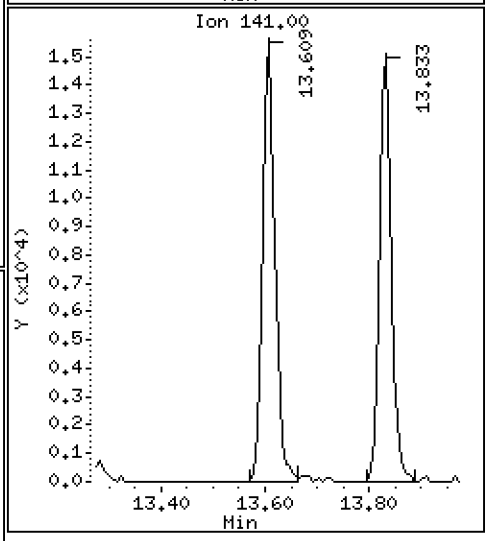
32 2-Methylnaphthalene

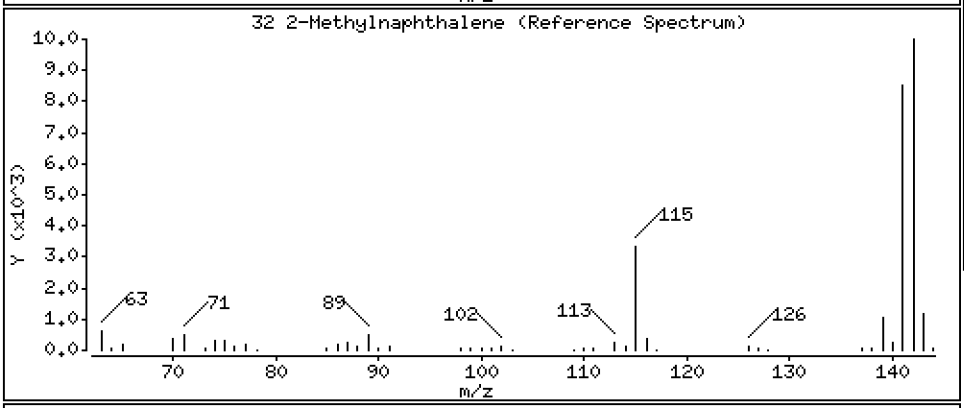
Concentration: 0.4449 ug/mL

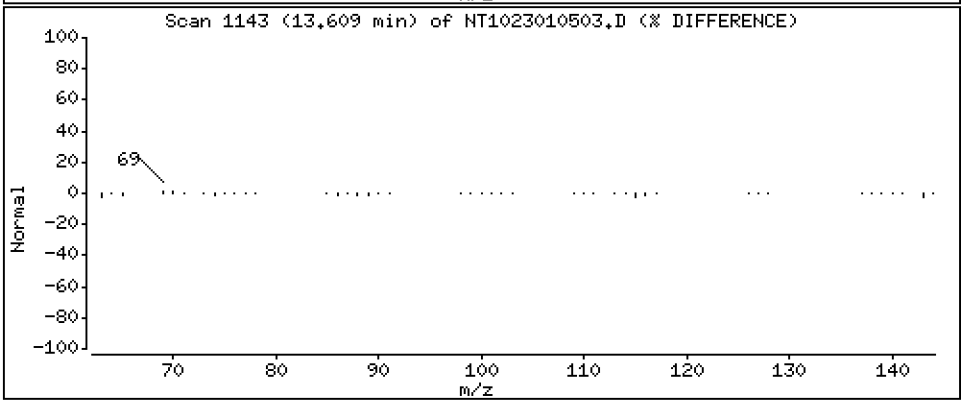












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

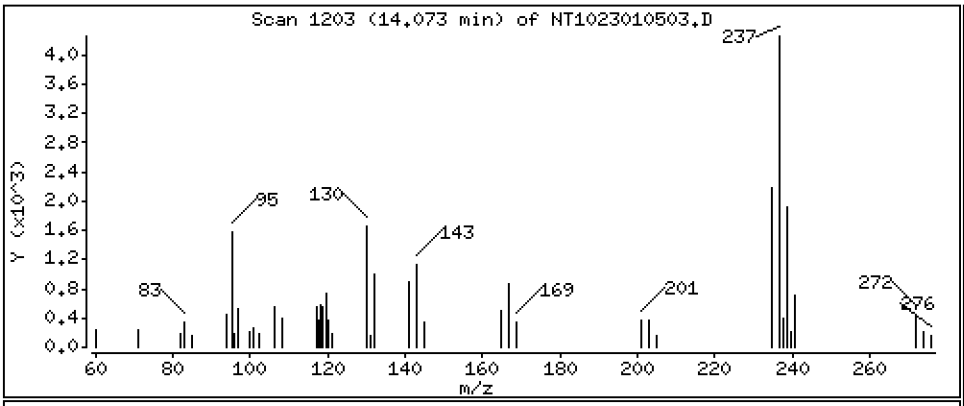
Operator: VTS

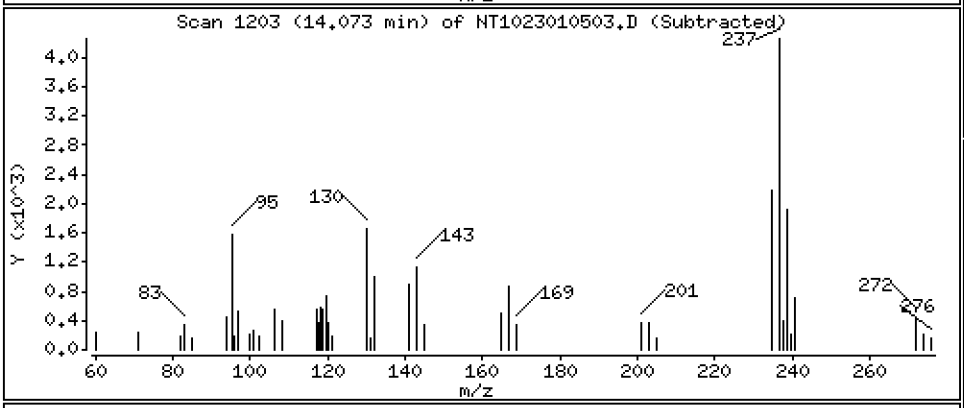
Column phase: ZB-5msi

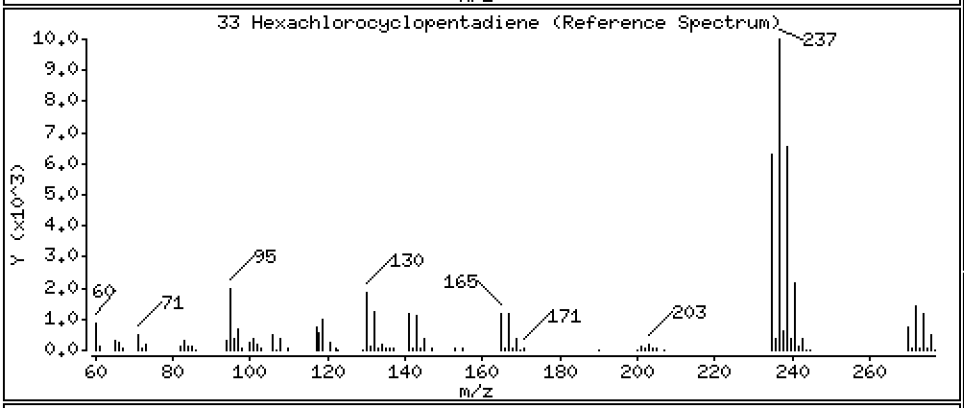
Column diameter: 0.25

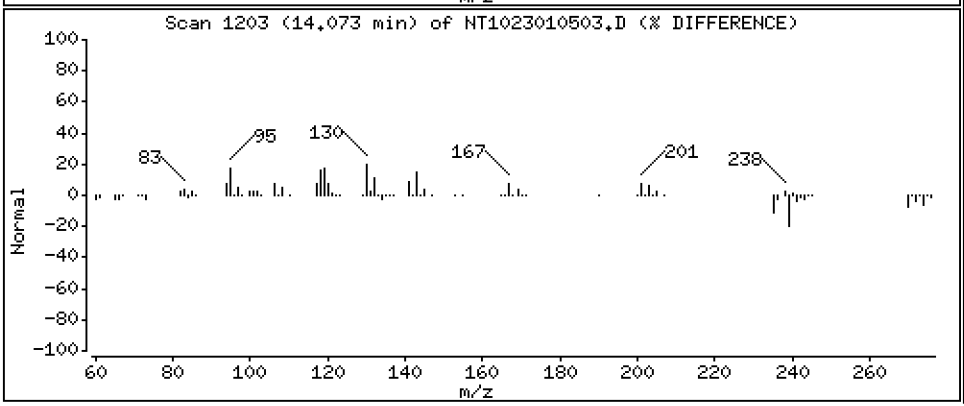
33 Hexachlorocyclopentadiene

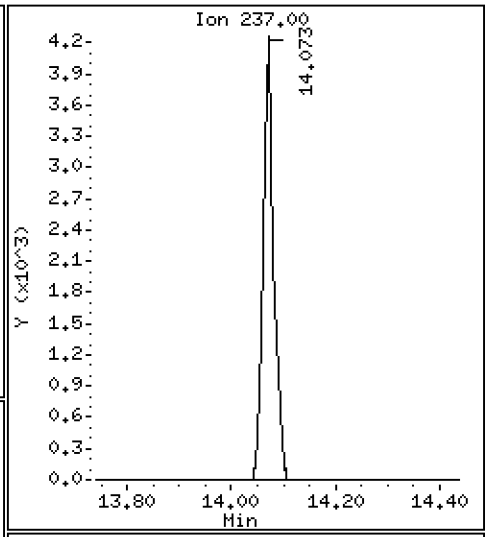
Concentration: 0.7129 ug/mL

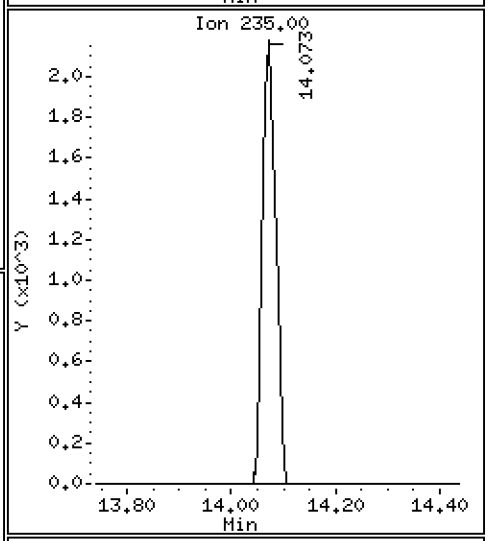


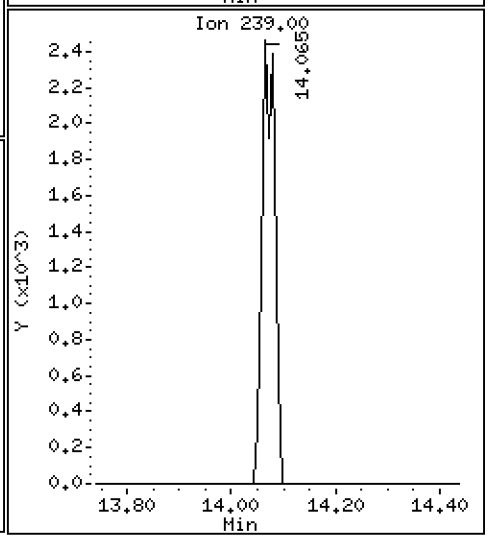












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

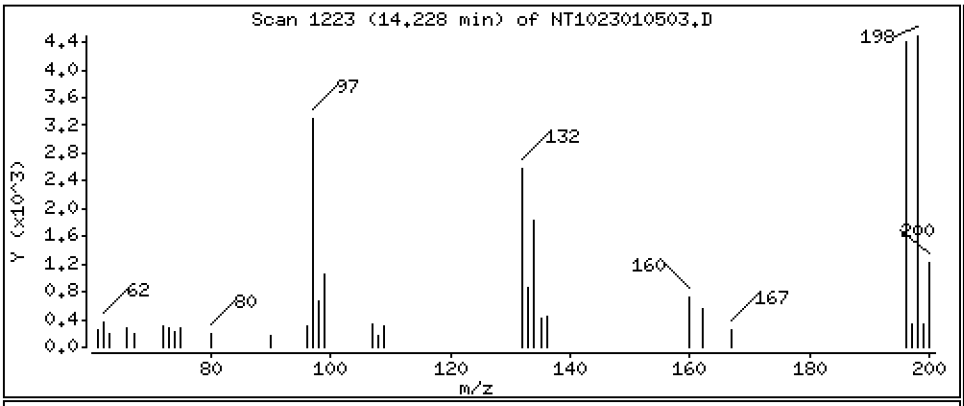
Operator: VTS

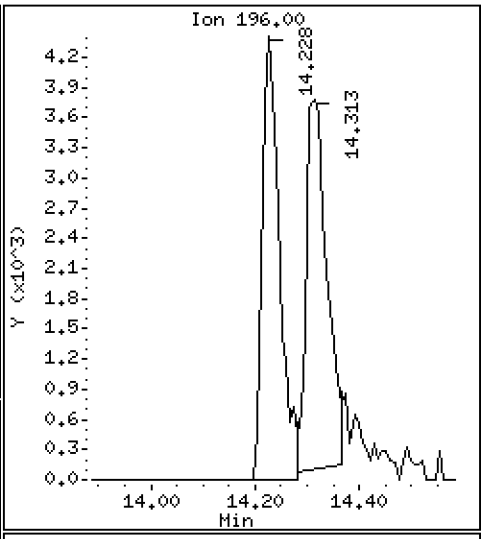
Column phase: ZB-5msi

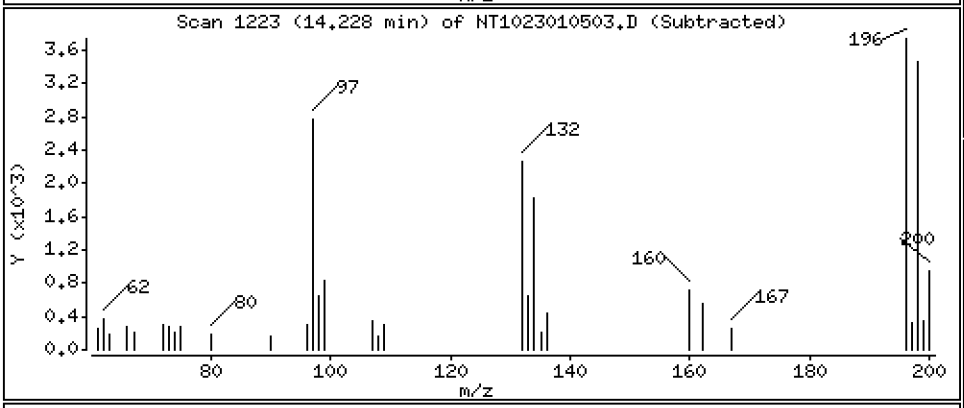
Column diameter: 0.25

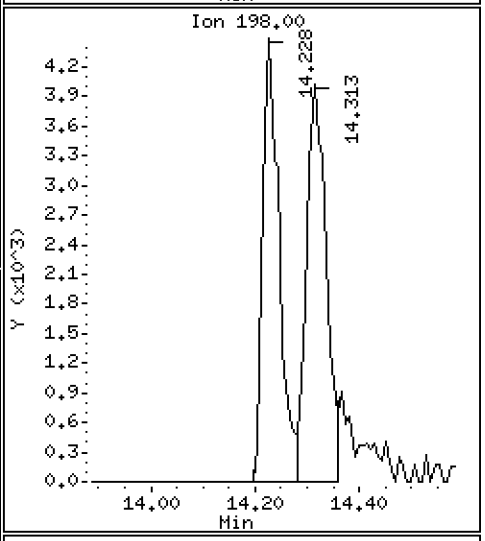
34 2,4,6-Trichlorophenol

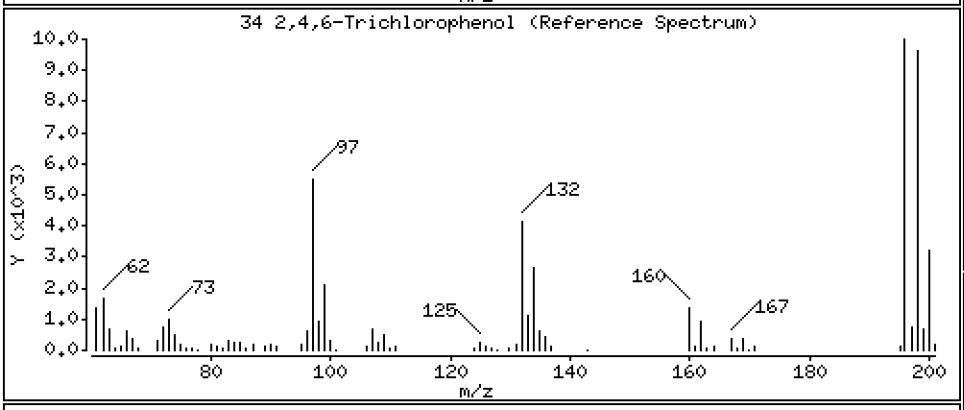
Concentration: 0.7716 ug/mL

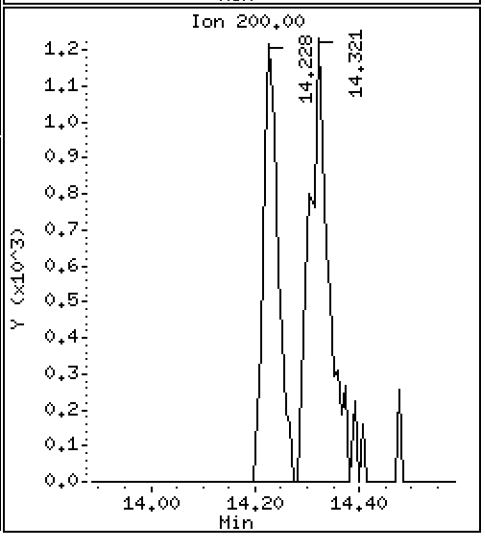


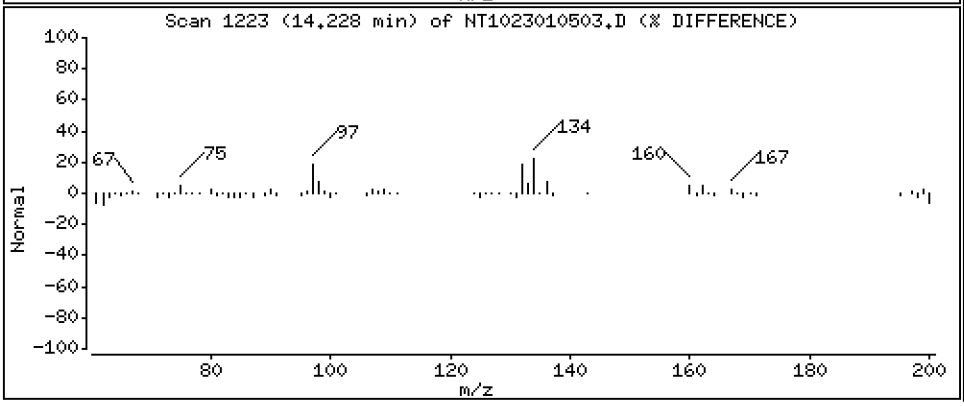












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

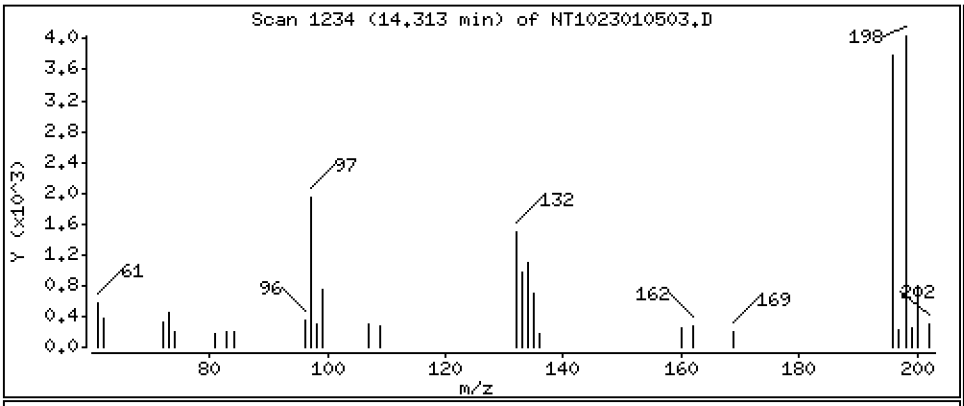
Operator: VTS

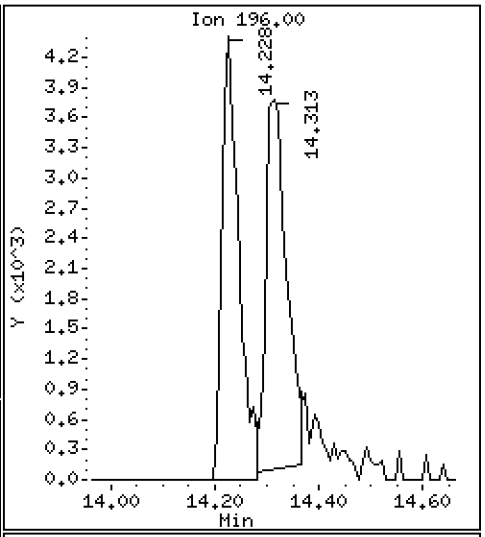
Column phase: ZB-5msi

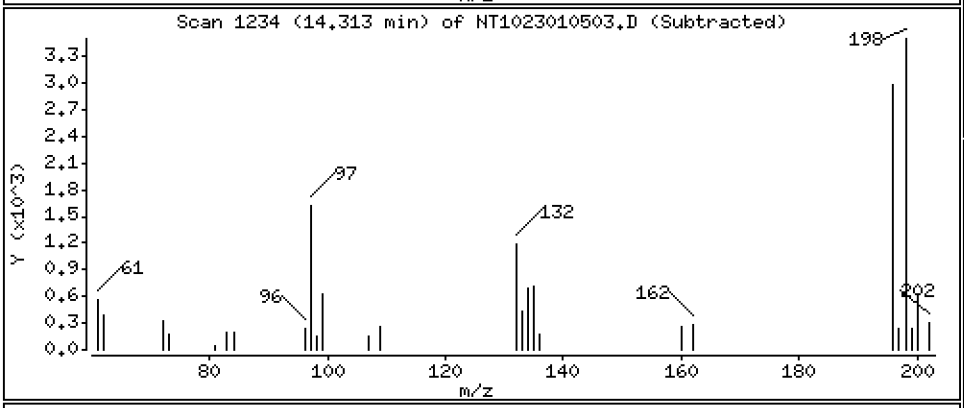
Column diameter: 0.25

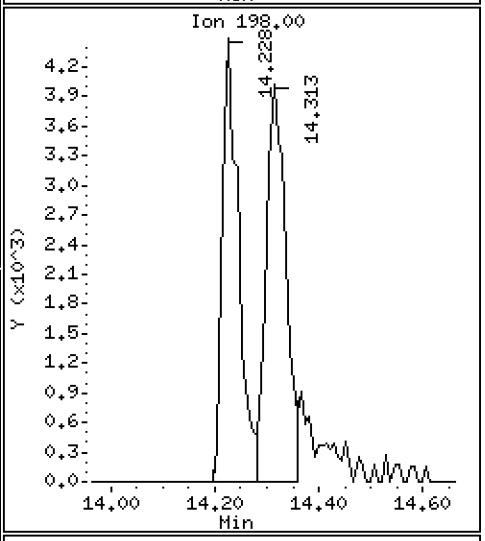
35 2,4,5-Trichlorophenol

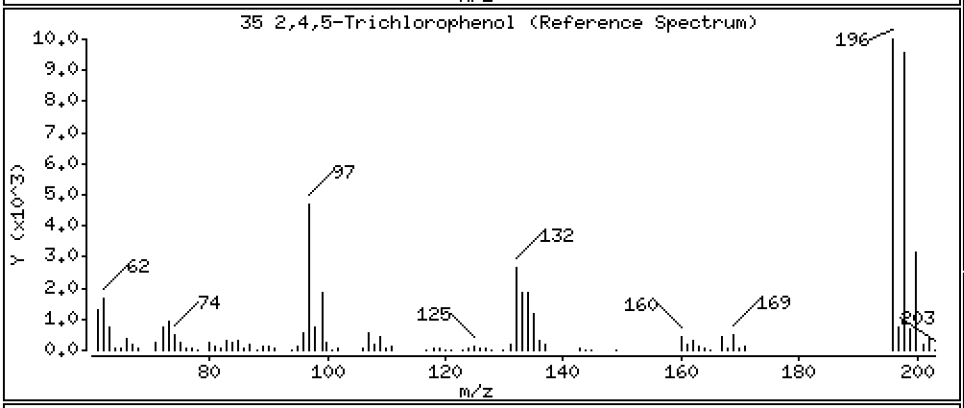
Concentration: 0.7302 ug/mL

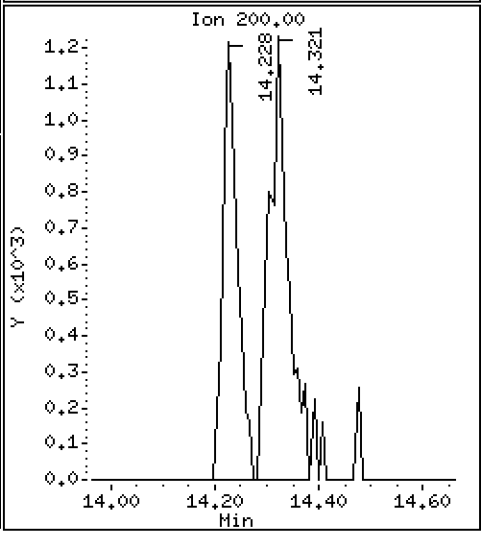


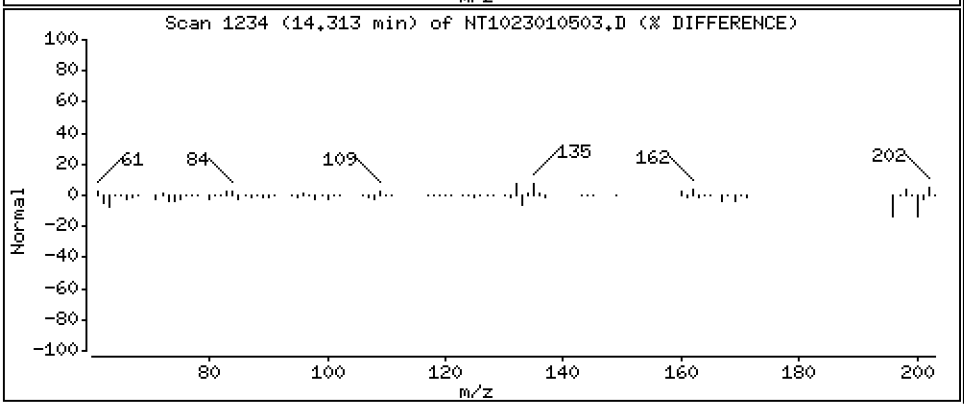












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

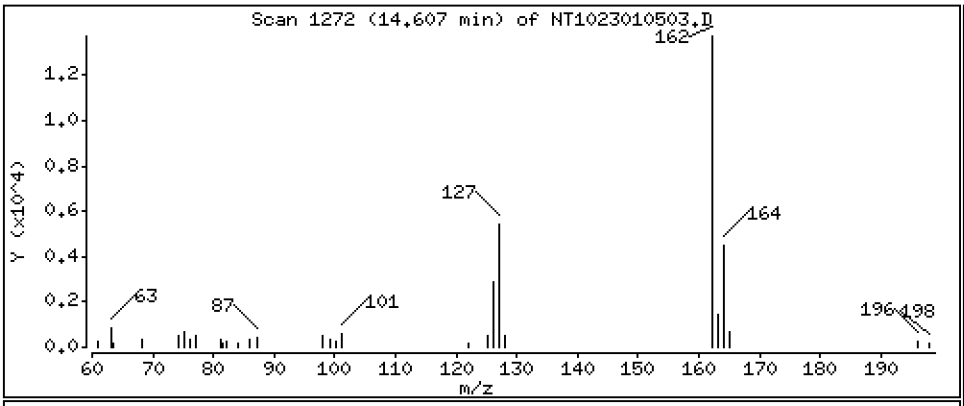
Operator: VTS

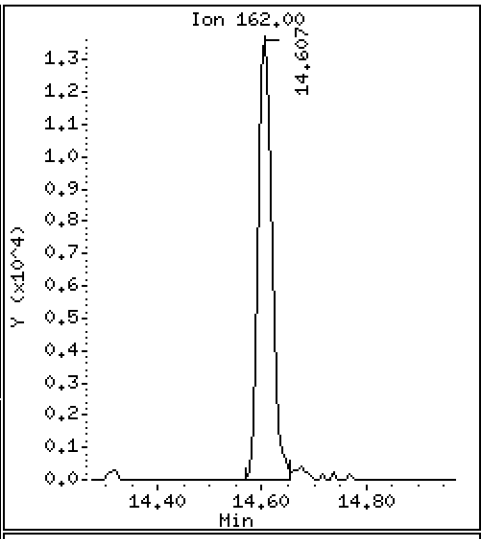
Column phase: ZB-5msi

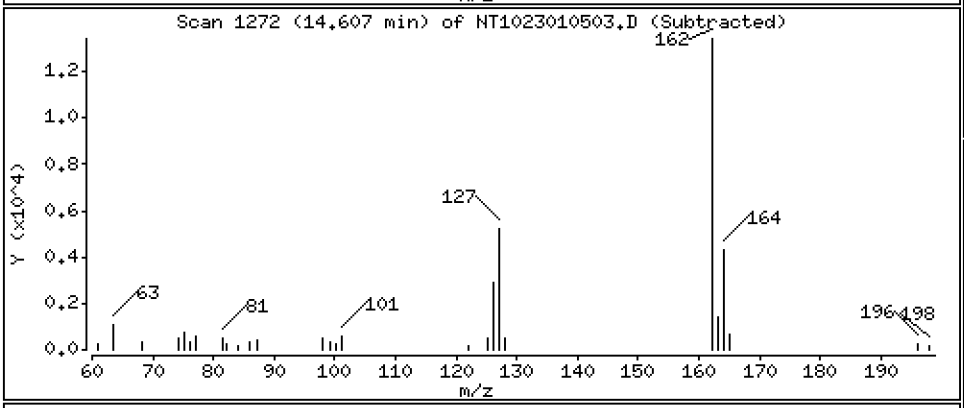
Column diameter: 0.25

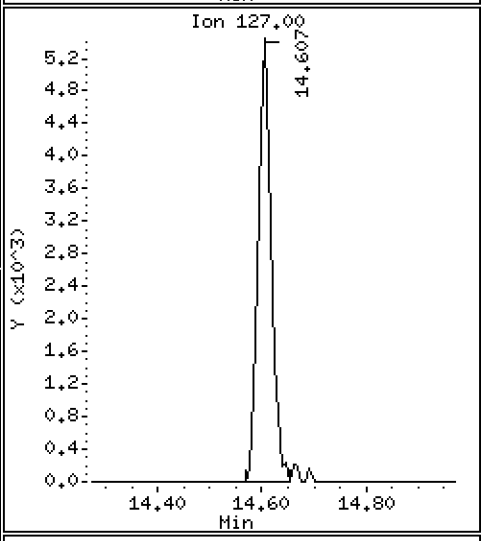
37 2-Chloronaphthalene

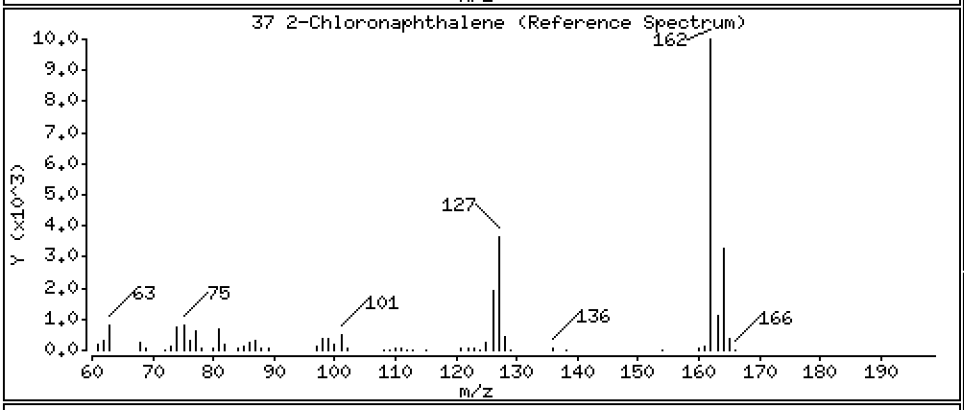
Concentration: 0.4929 ug/mL

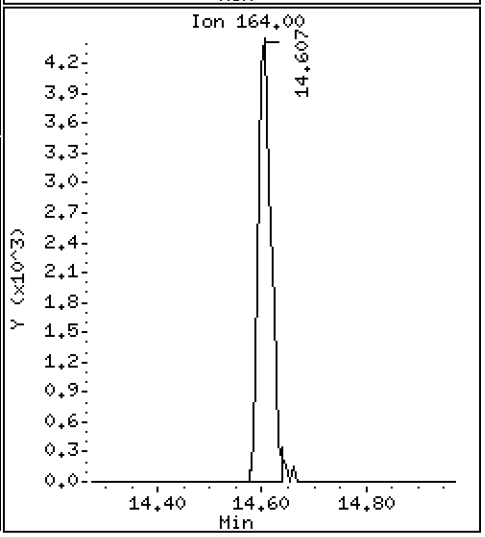


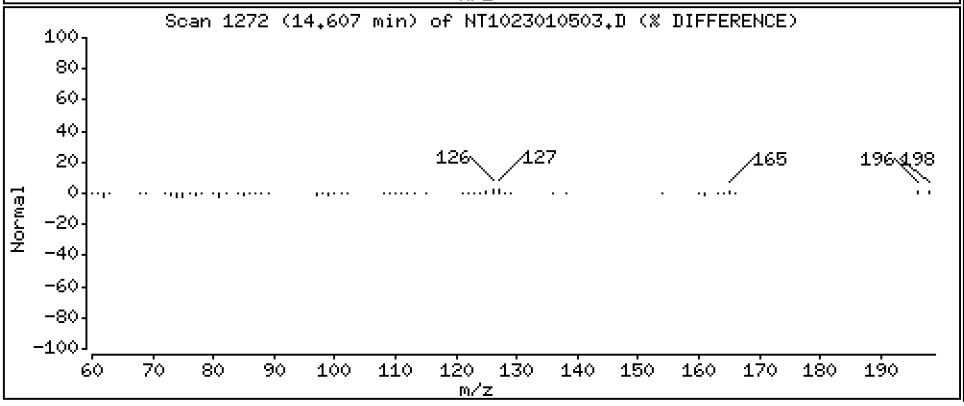












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

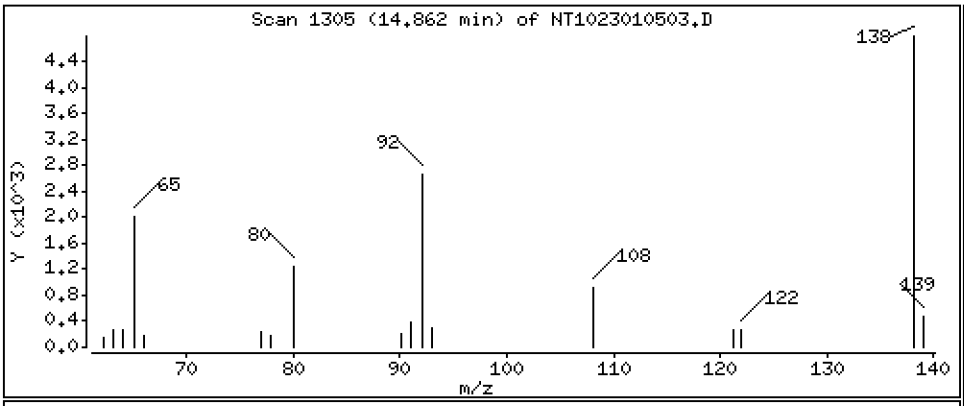
Operator: VTS

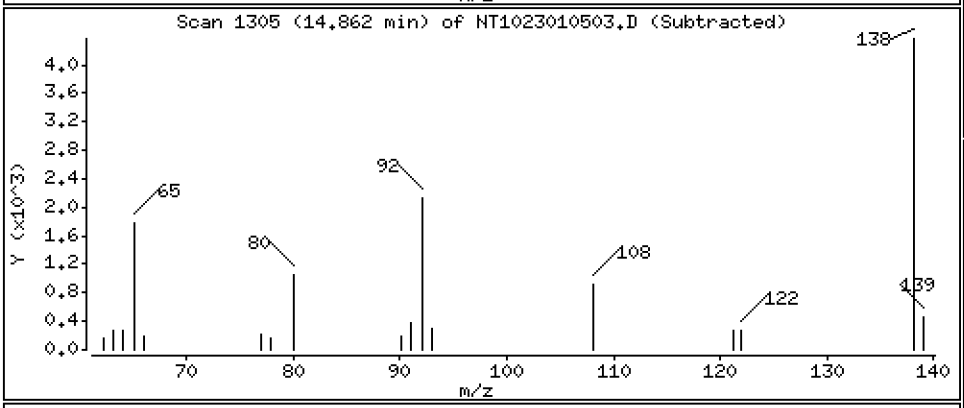
Column phase: ZB-5msi

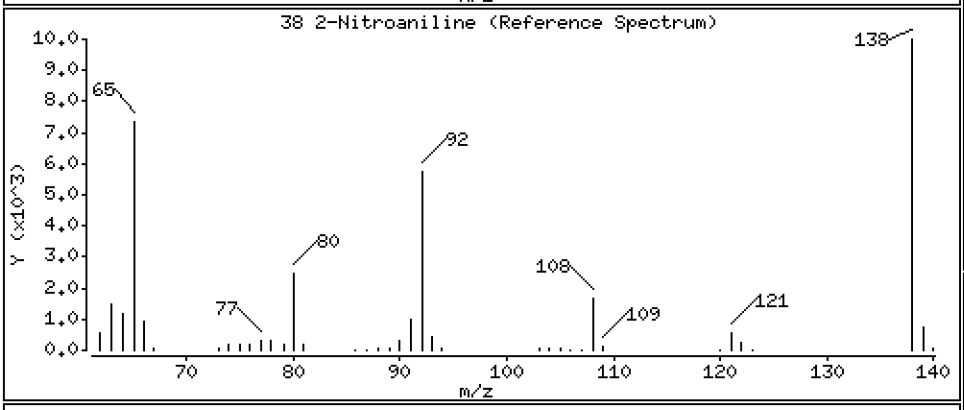
Column diameter: 0.25

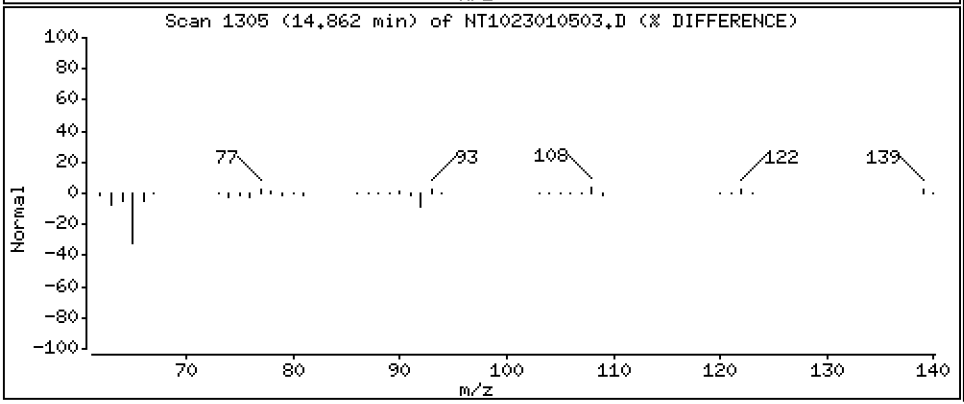
38 2-Nitroaniline

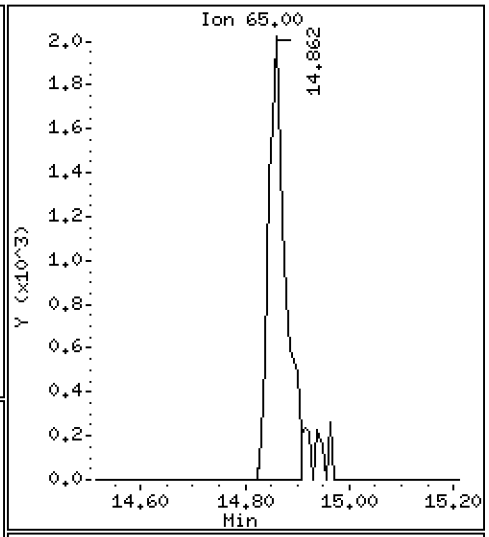
Concentration: 0.6548 ug/mL

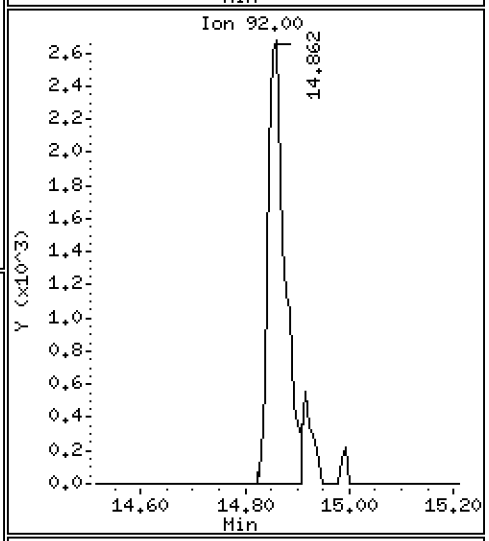


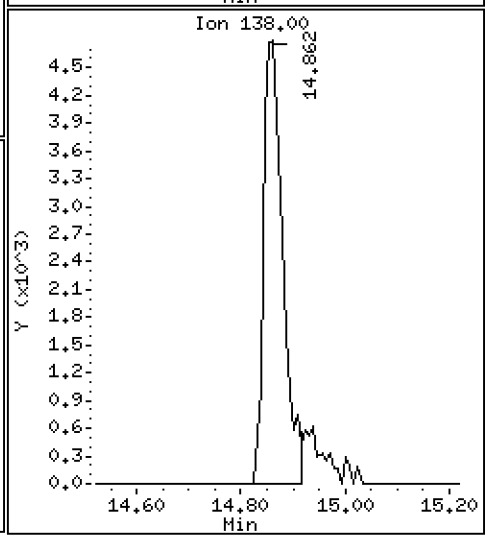












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

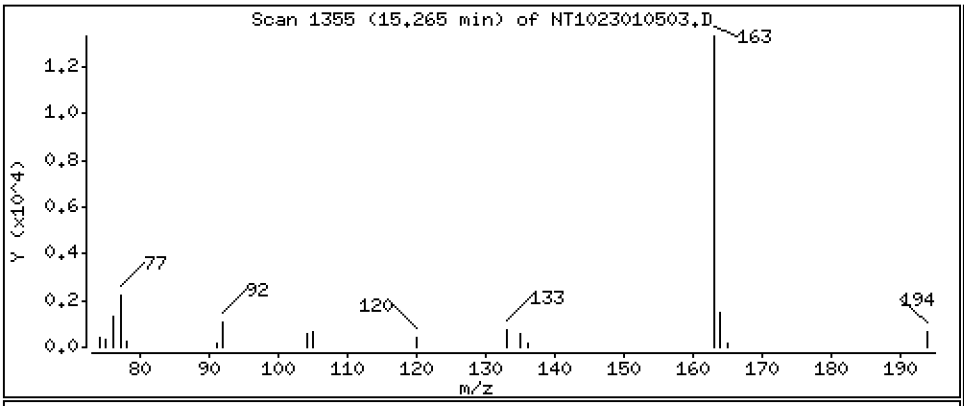
Operator: VTS

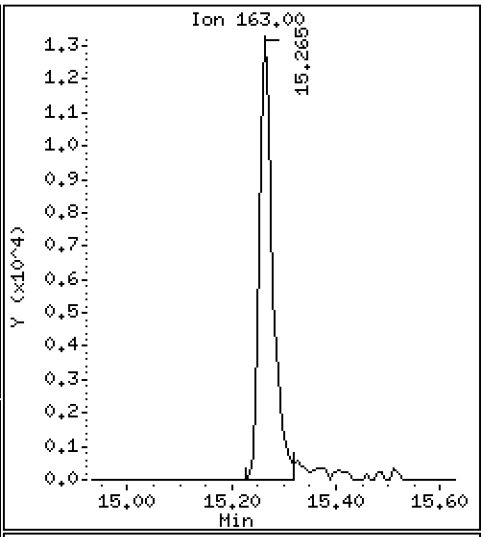
Column phase: ZB-5msi

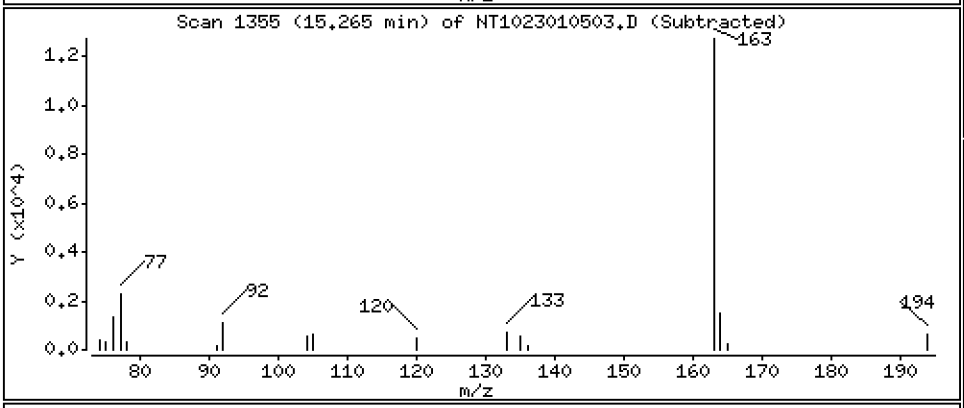
Column diameter: 0.25

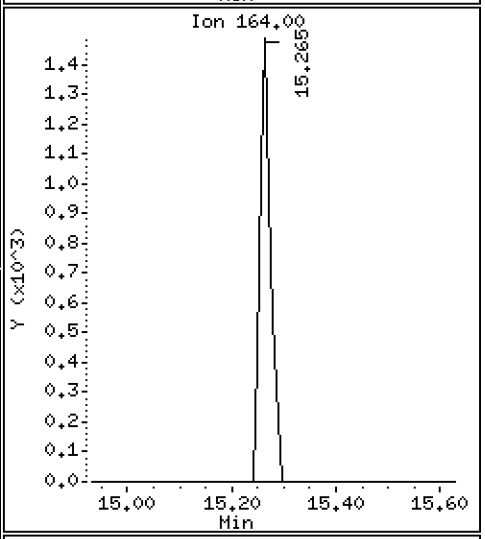
39 Dimethylphthalate

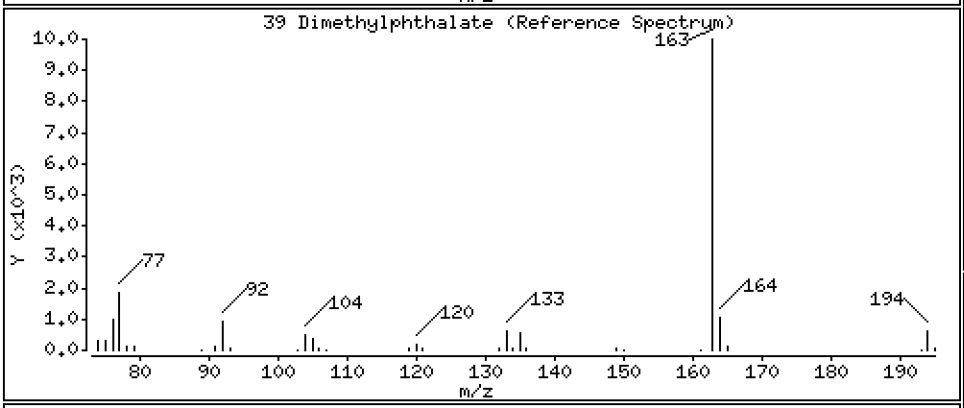
Concentration: 0.5193 ug/mL

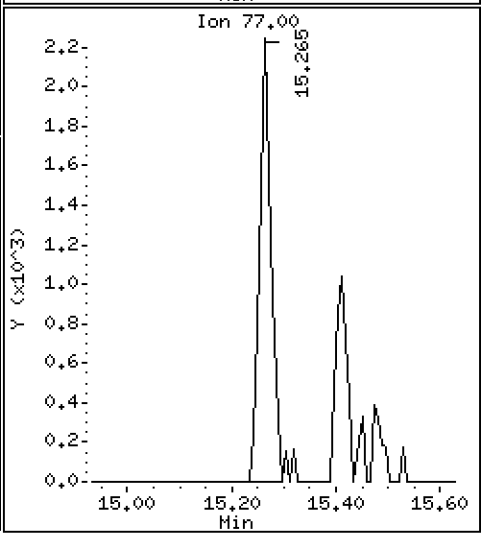


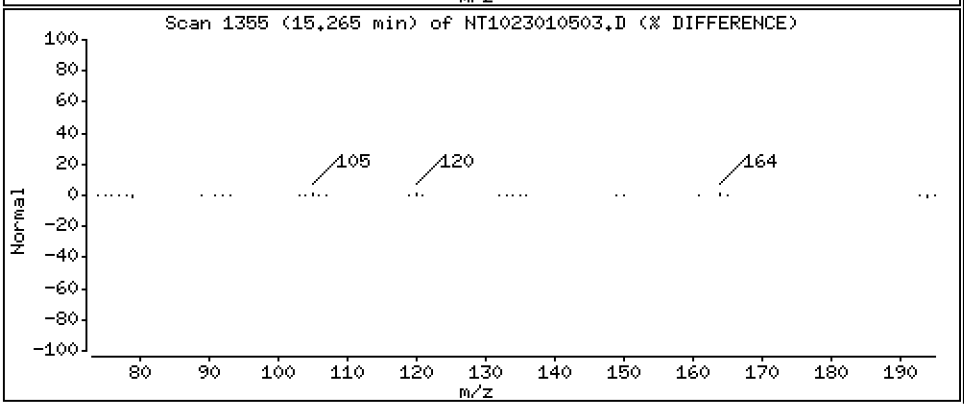












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

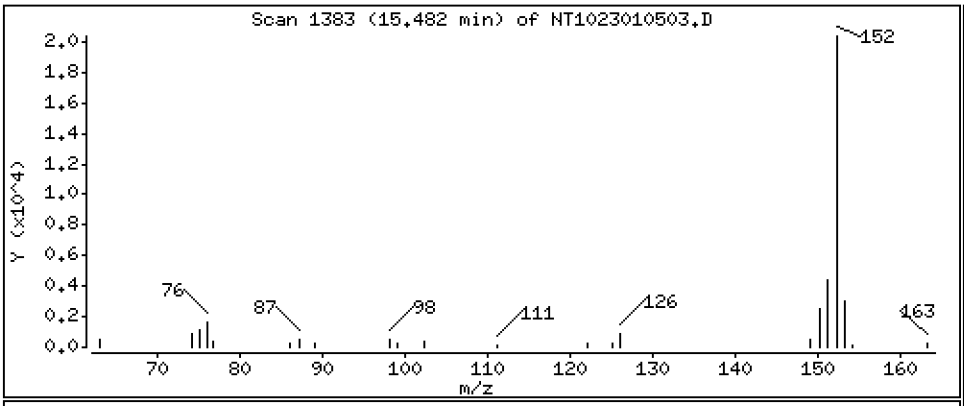
Operator: VTS

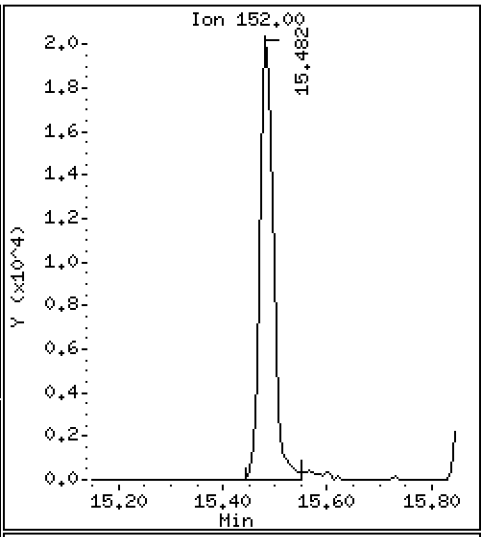
Column phase: ZB-5msi

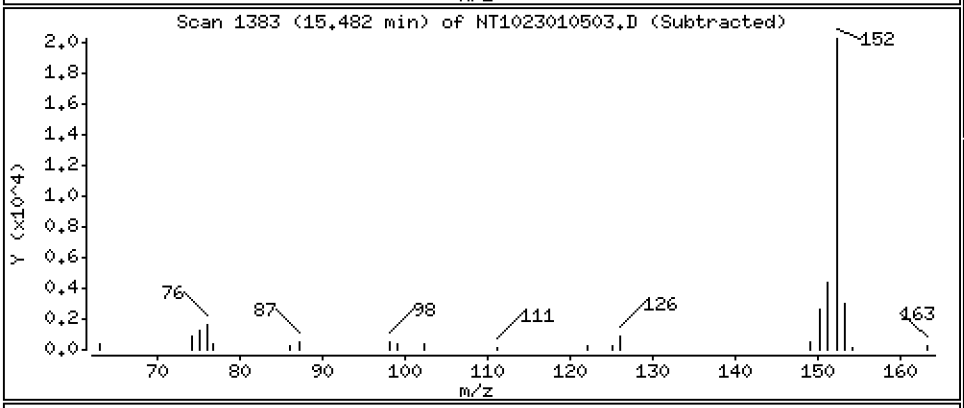
Column diameter: 0.25

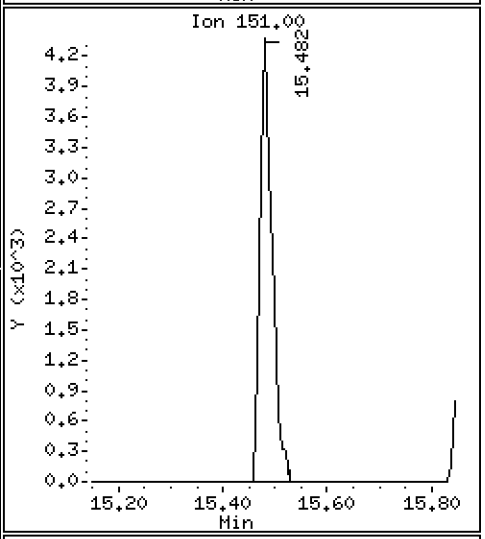
40 Acenaphthylene

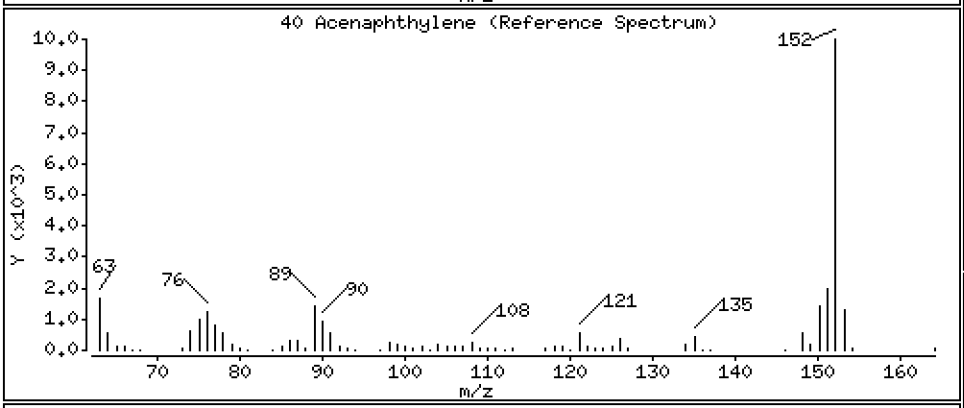
Concentration: 0.4892 ug/mL

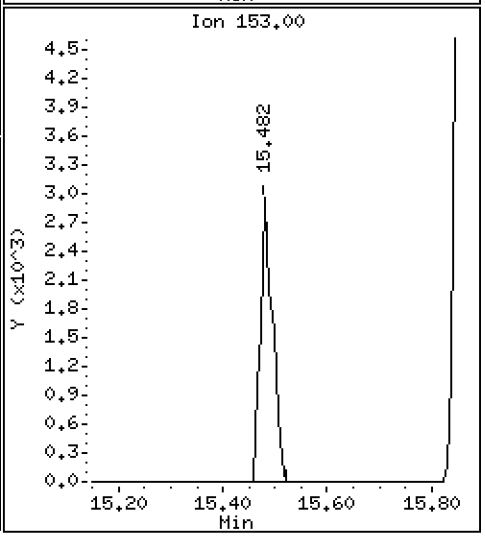


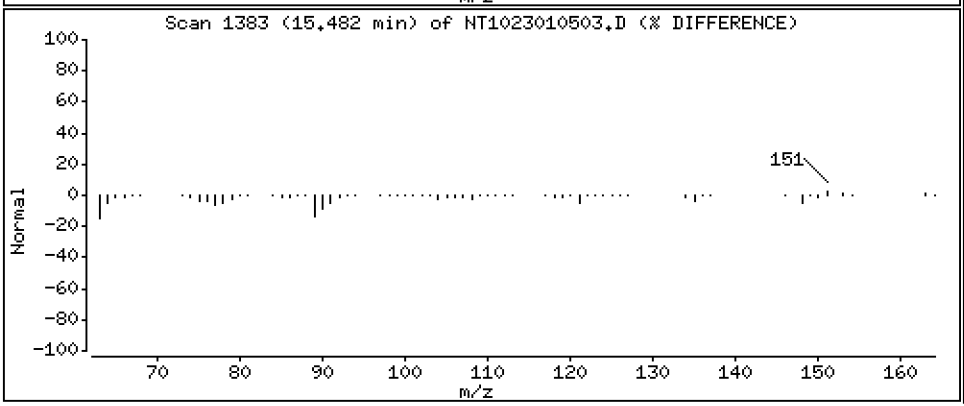












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

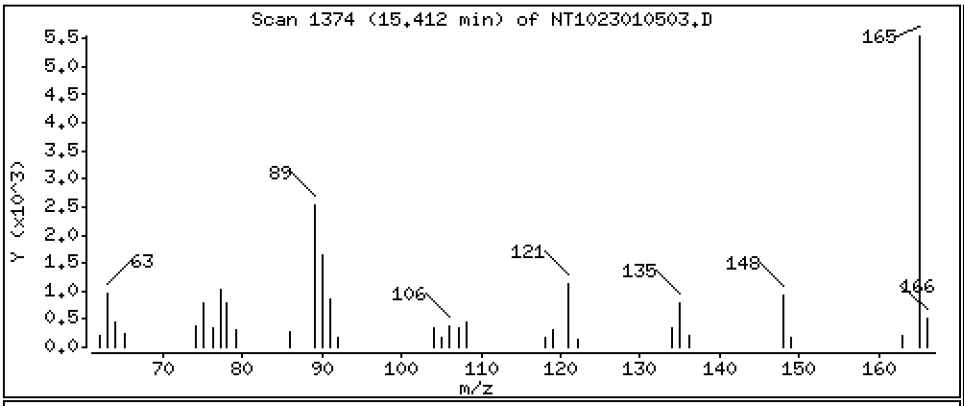
Operator: VTS

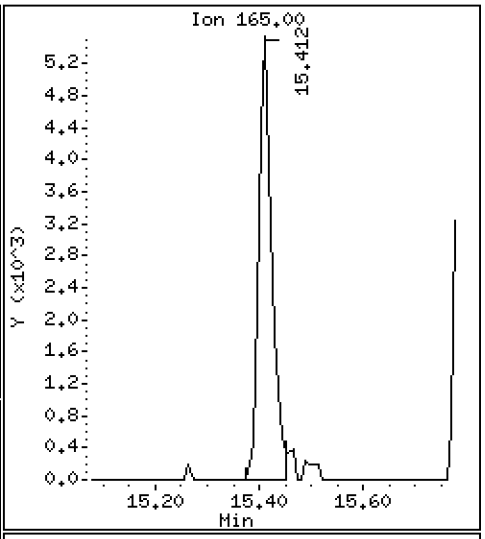
Column phase: ZB-5msi

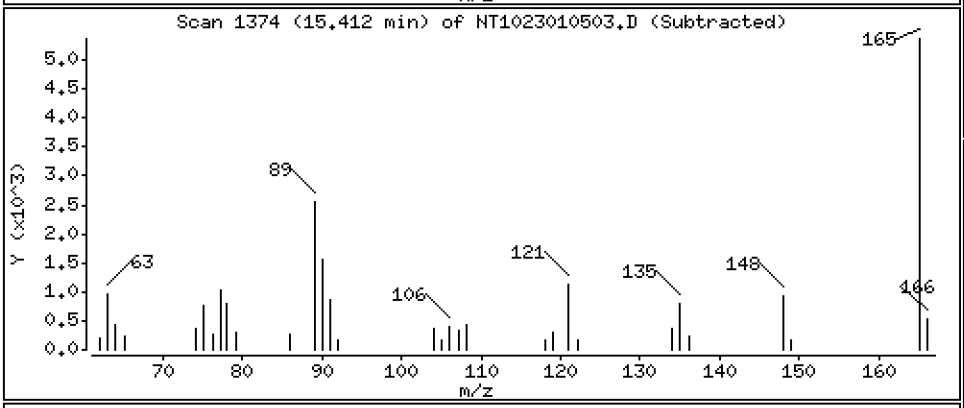
Column diameter: 0.25

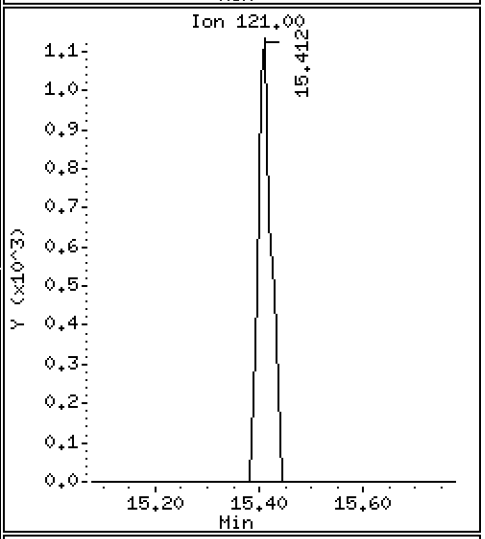
41 2,6-Dinitrotoluene

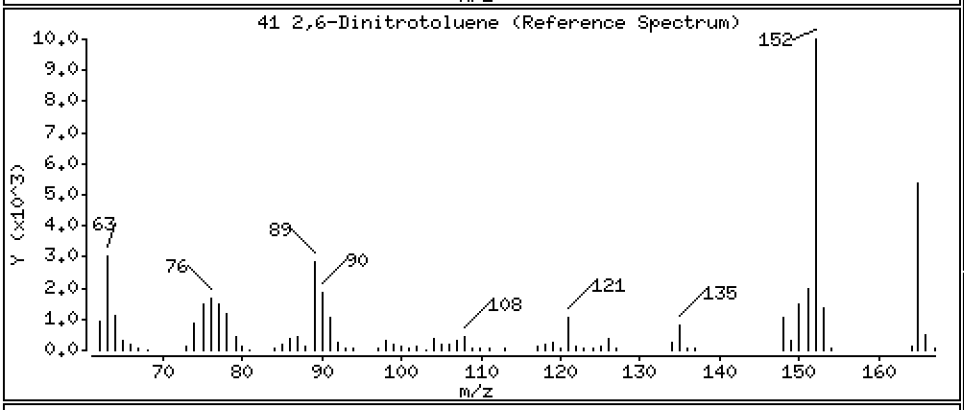
Concentration: 0.9041 ug/mL

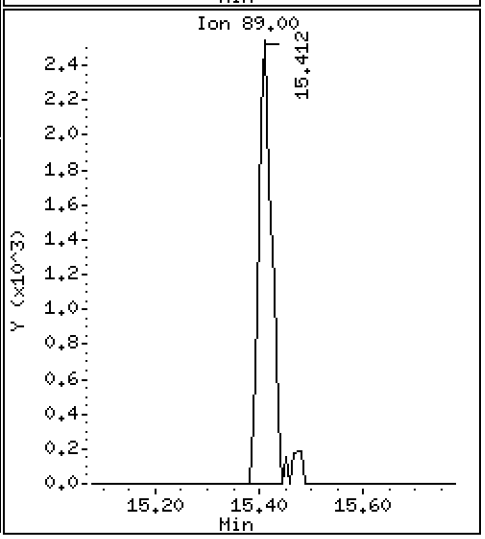


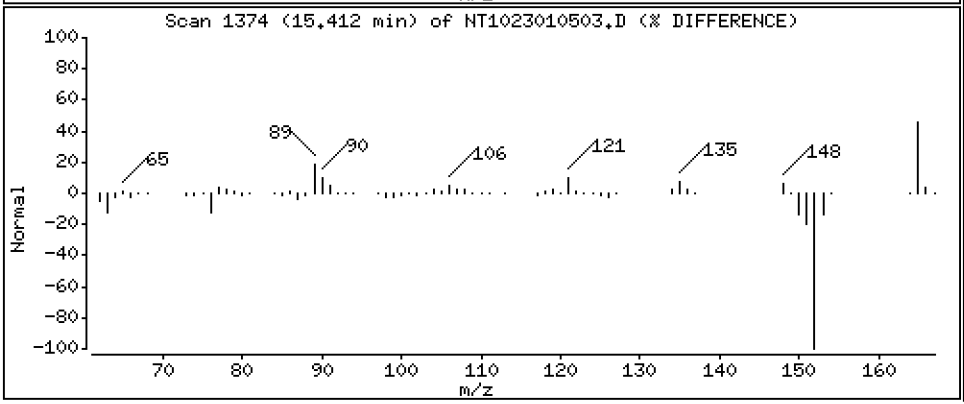












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

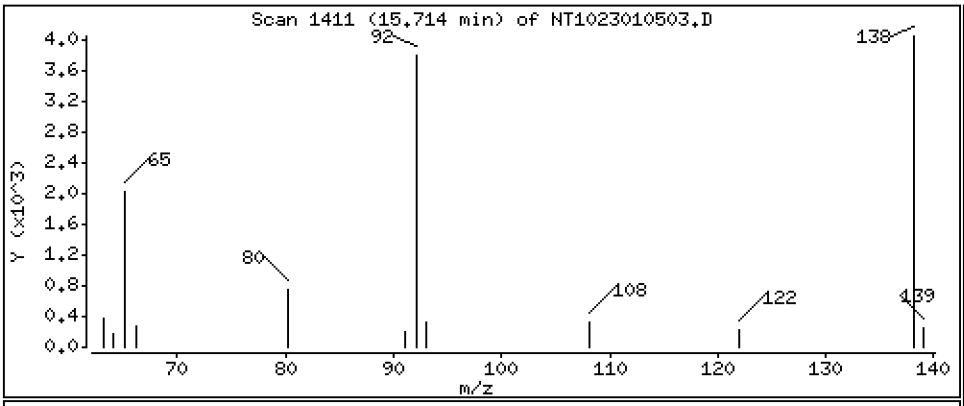
Operator: VTS

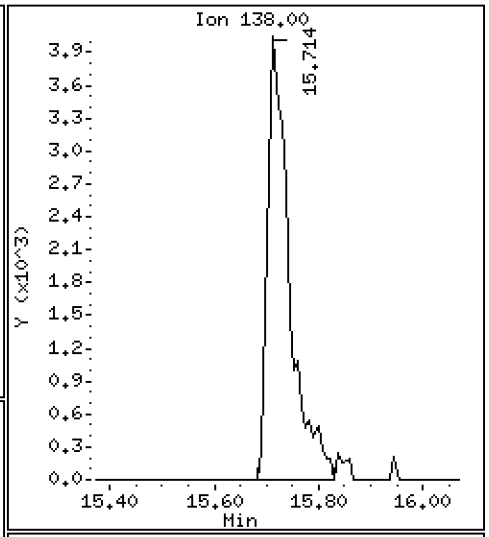
Column phase: ZB-5msi

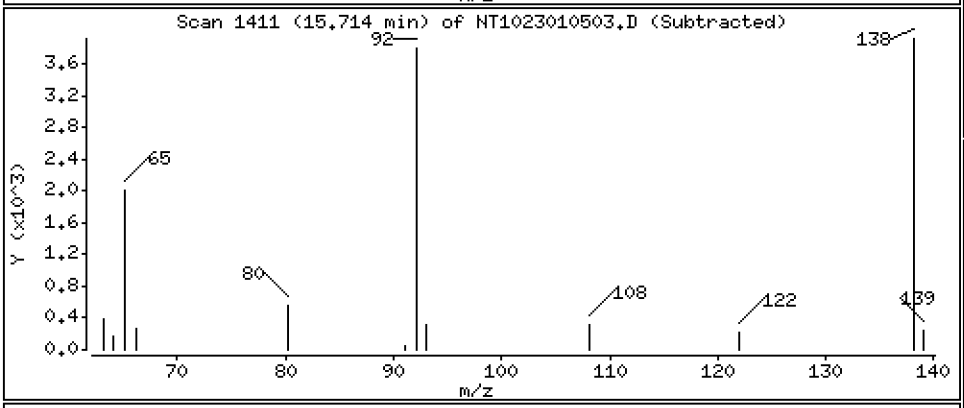
Column diameter: 0.25

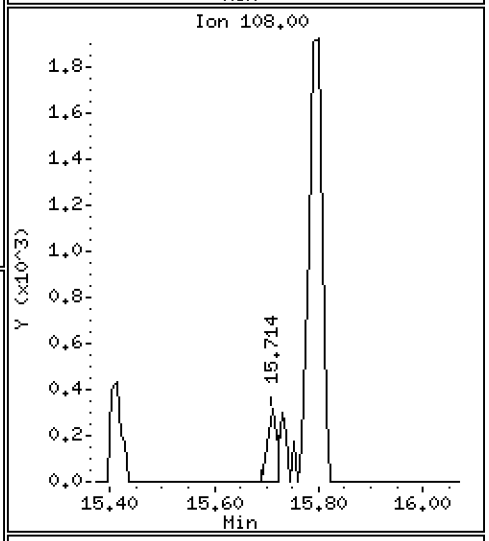
43 3-Nitroaniline

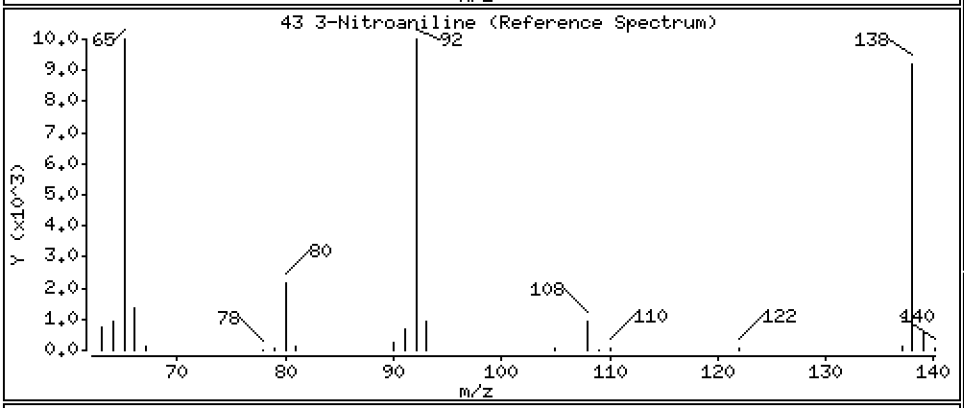
Concentration: 1.449 ug/mL

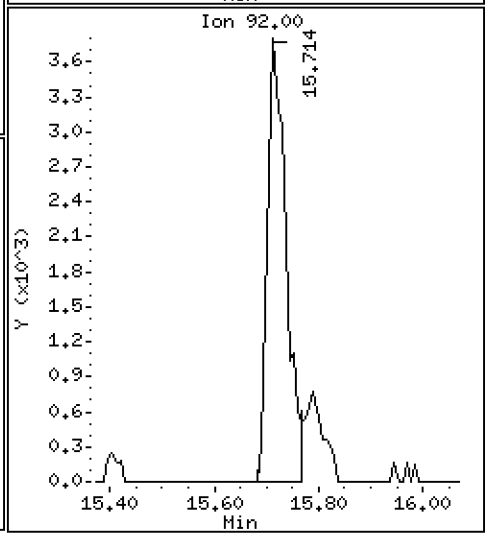


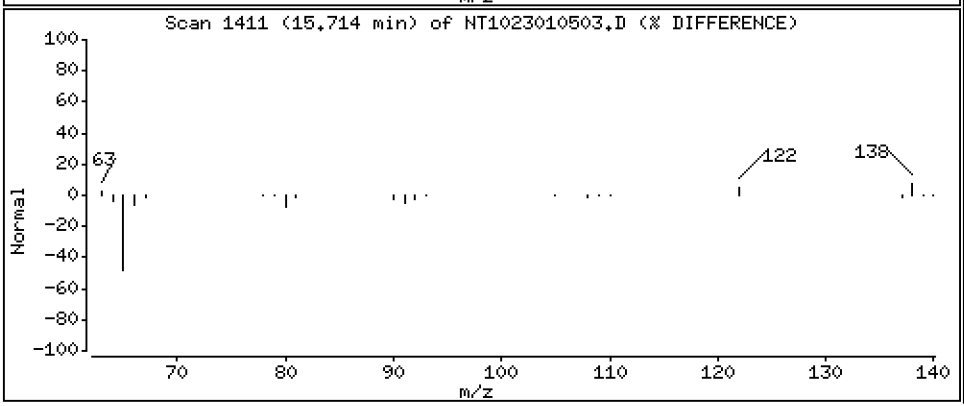












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

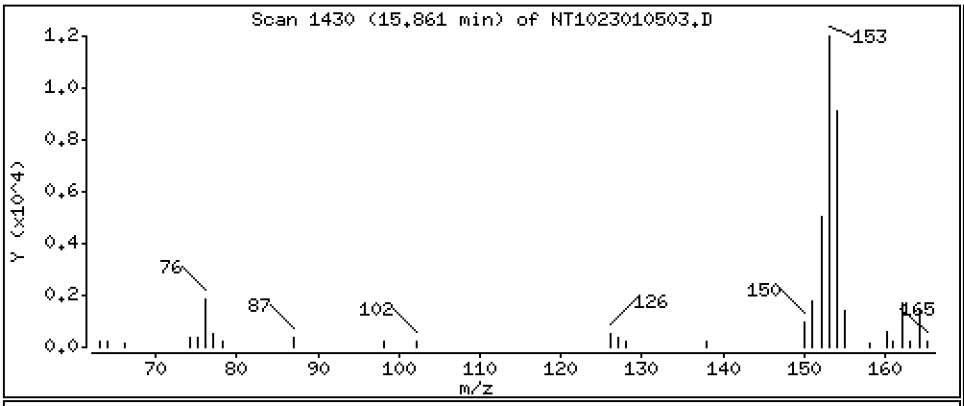
Operator: VTS

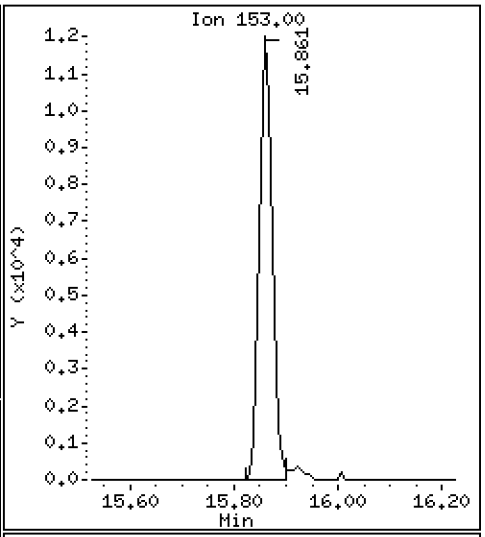
Column phase: ZB-5msi

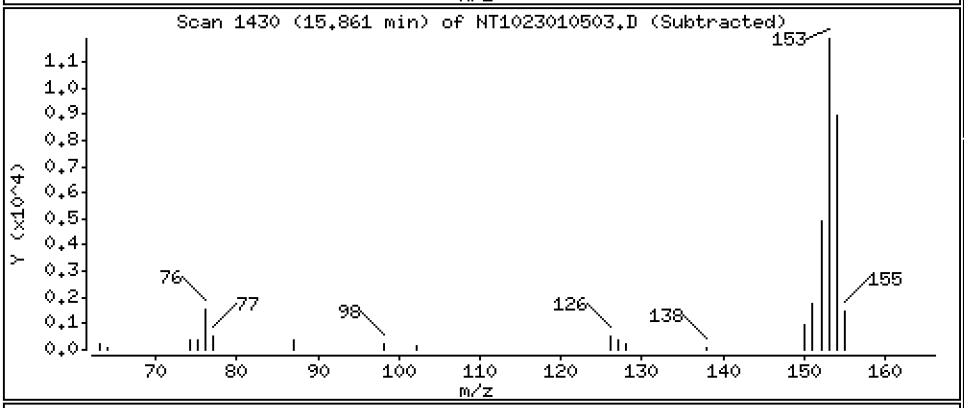
Column diameter: 0.25

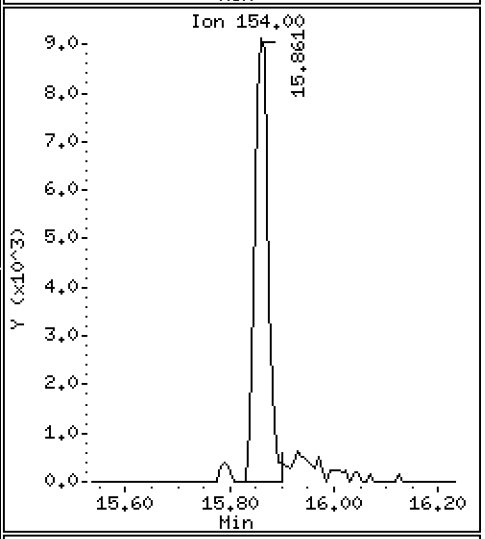
44 Acenaphthene

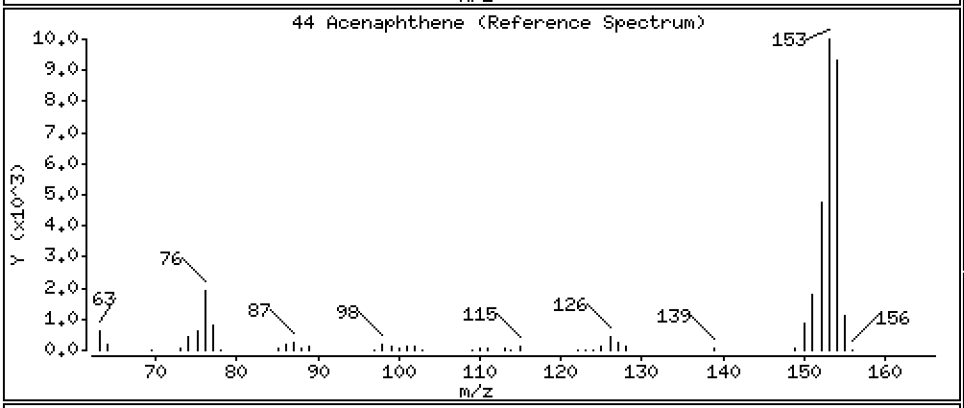
Concentration: 0.4974 ug/mL

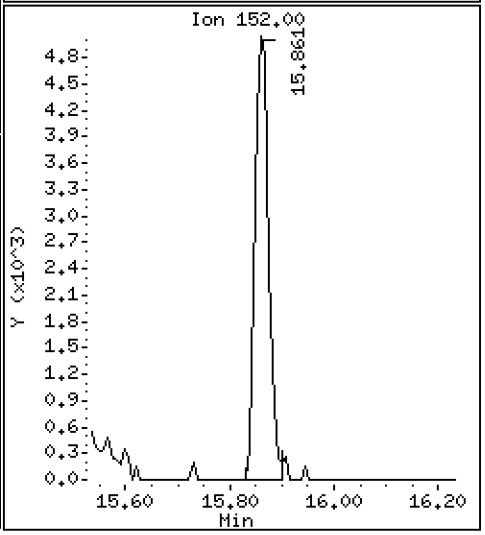


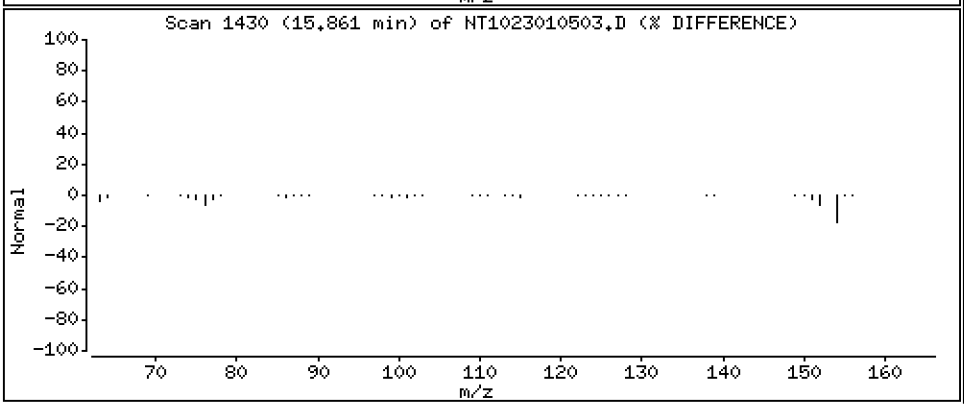












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

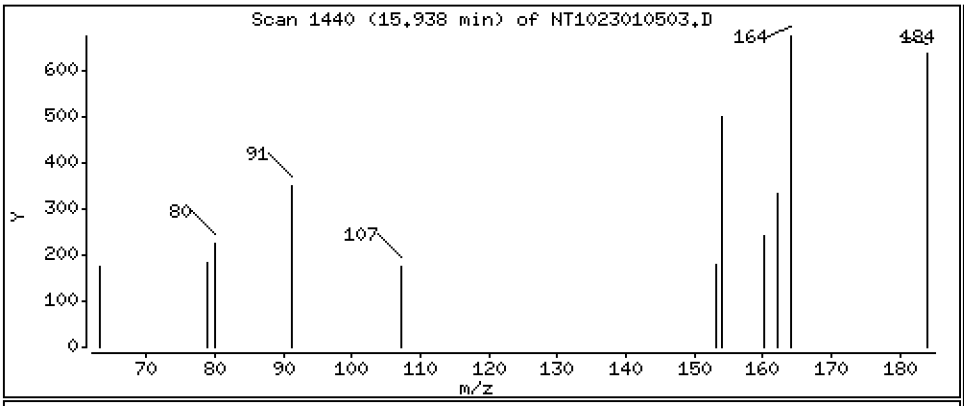
Operator: VTS

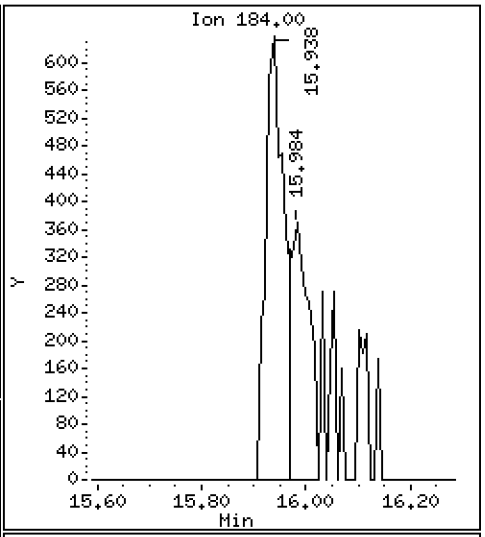
Column phase: ZB-5msi

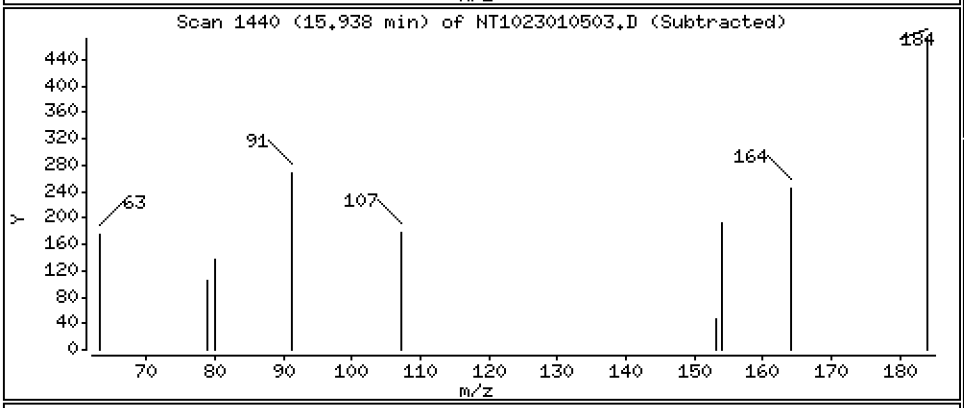
Column diameter: 0.25

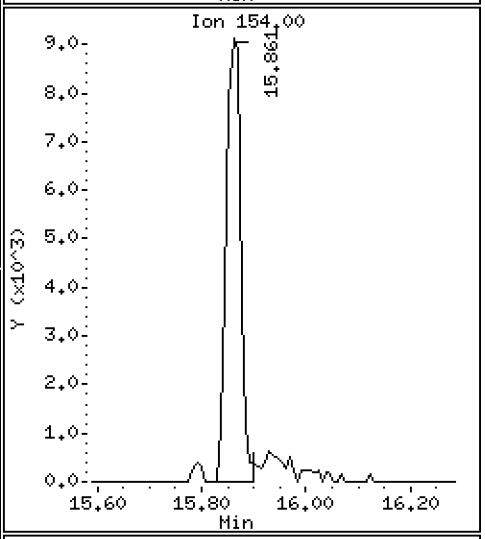
45 2,4-Dinitrophenol

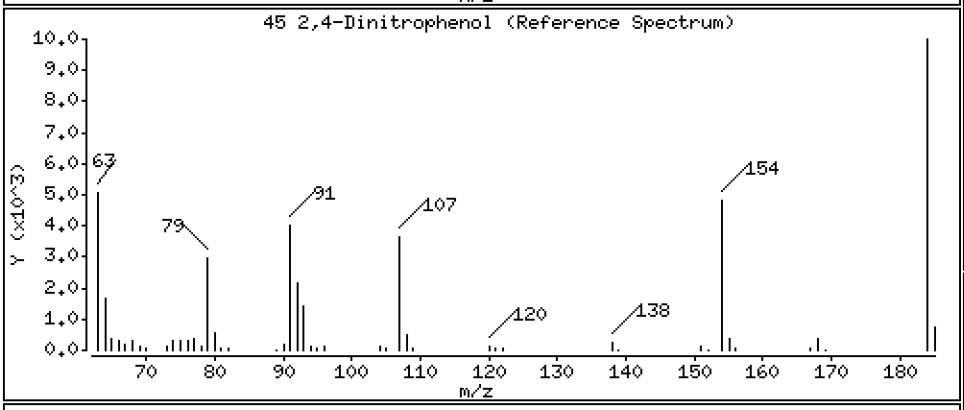
Concentration: 0.2212 ug/mL

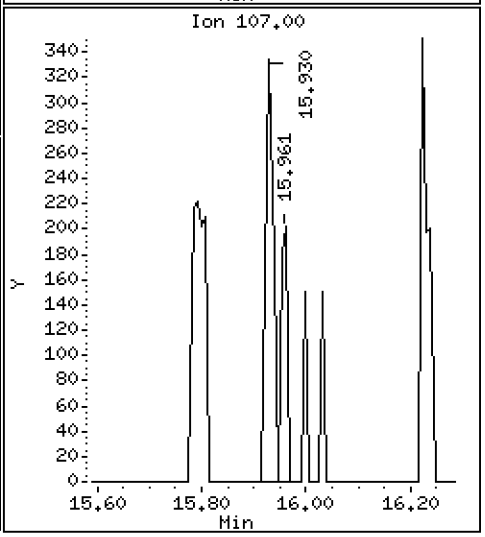


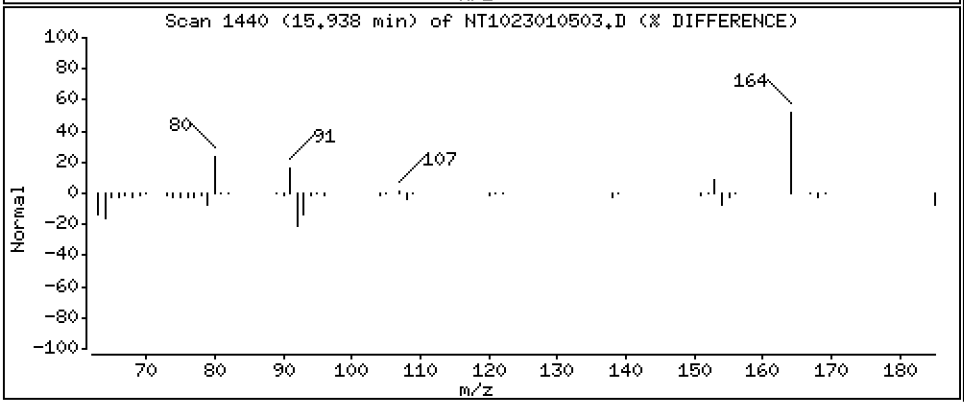












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

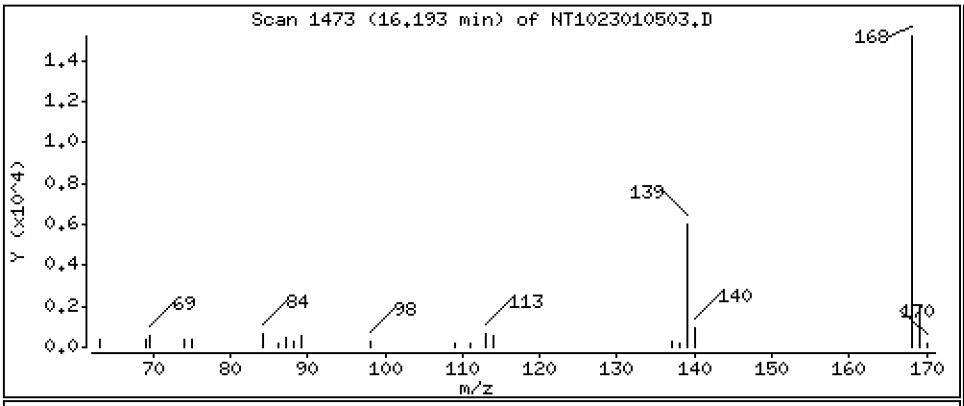
Operator: VTS

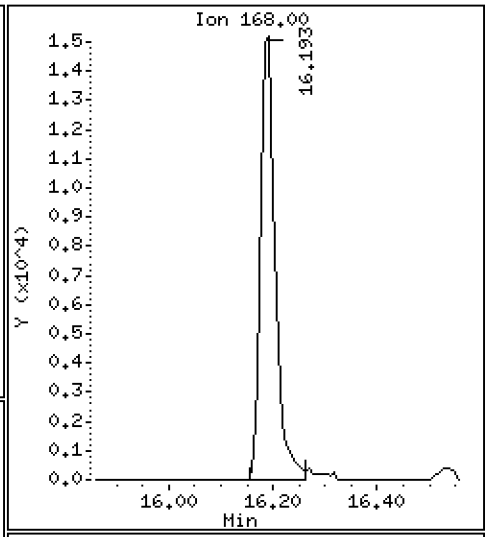
Column phase: ZB-5msi

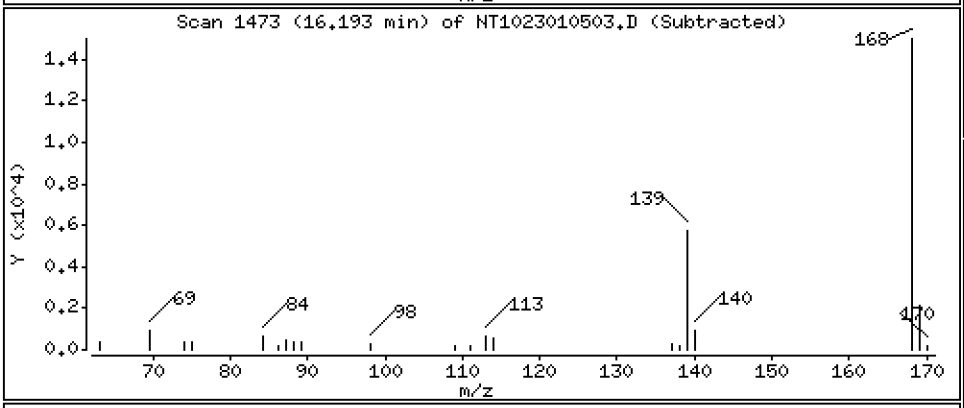
Column diameter: 0.25

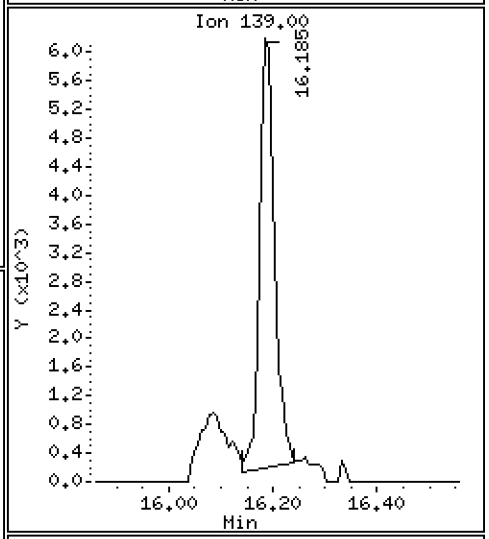
46 Dibenzofuran

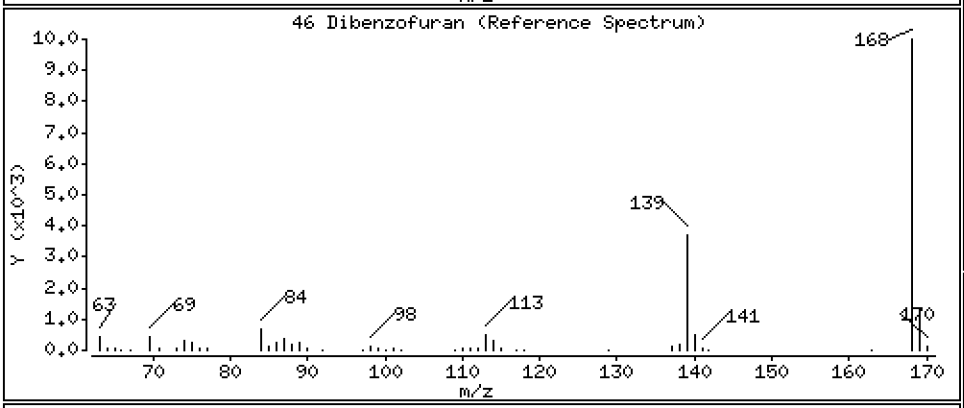
Concentration: 0.4870 ug/mL

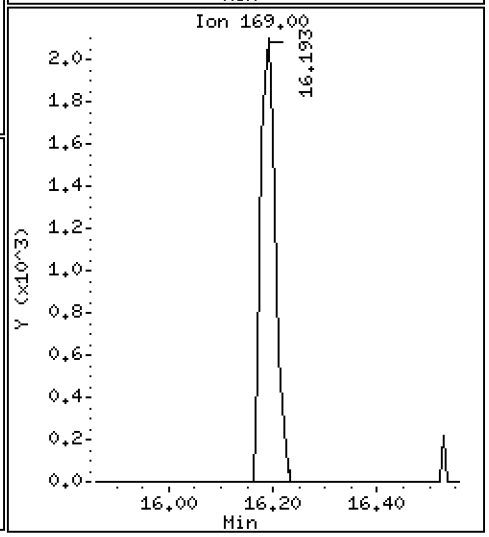


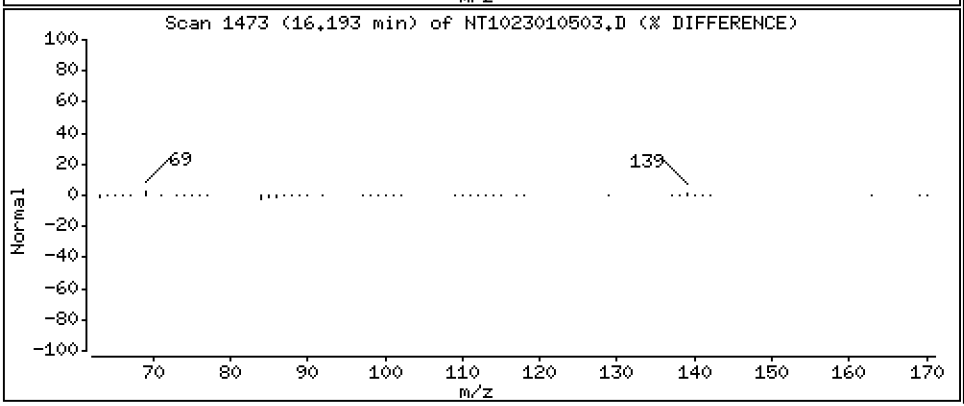












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

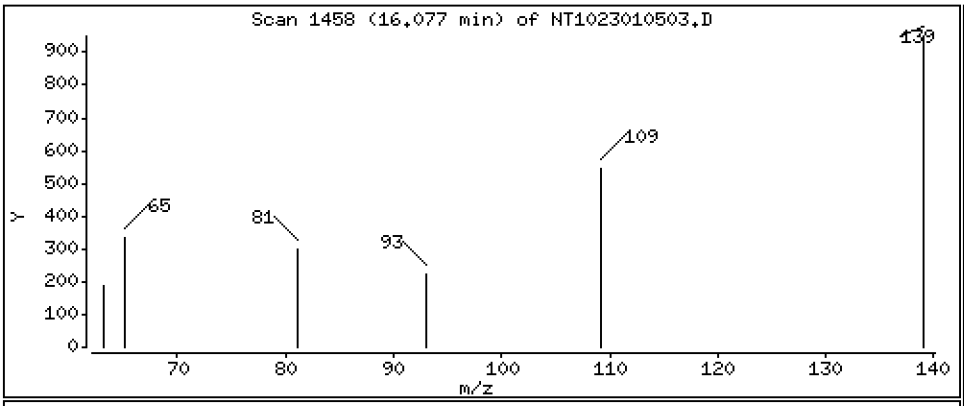
Operator: VTS

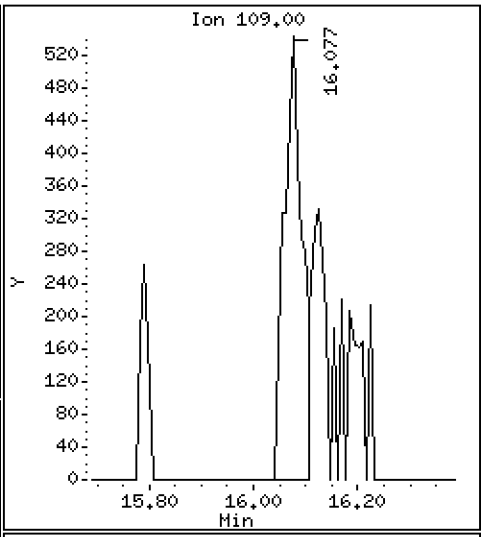
Column phase: ZB-5msi

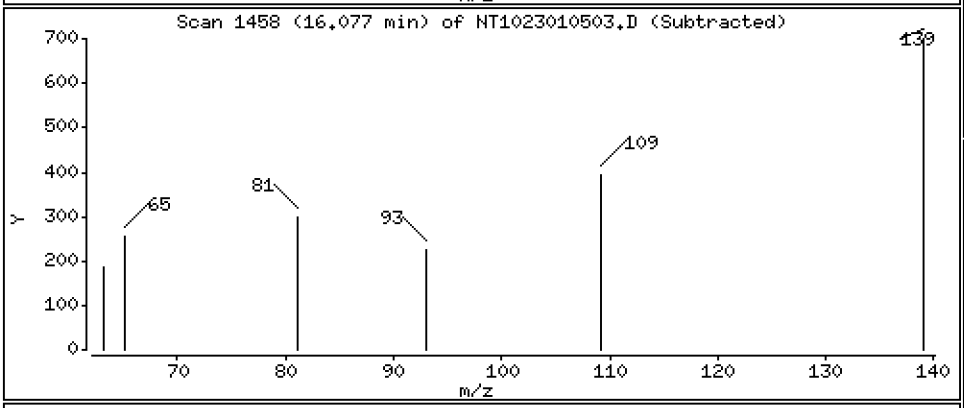
Column diameter: 0.25

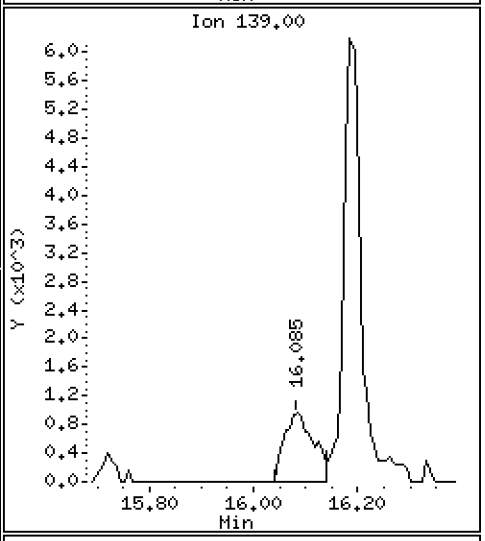
47 4-Nitrophenol

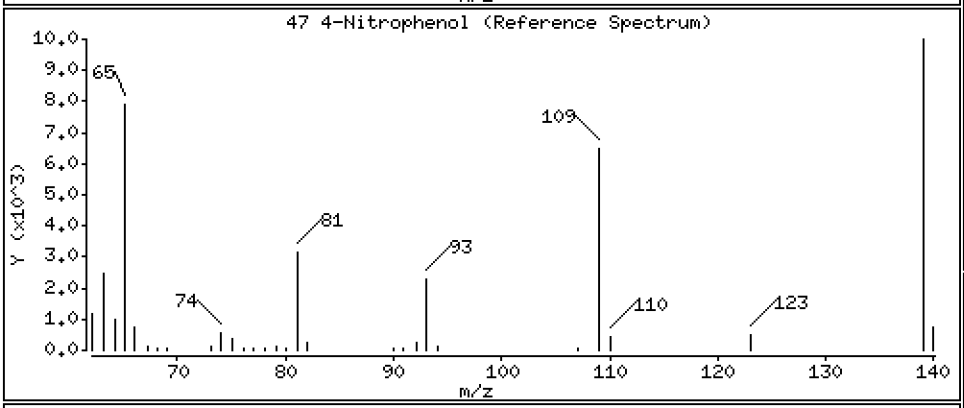
Concentration: 0.2524 ug/mL

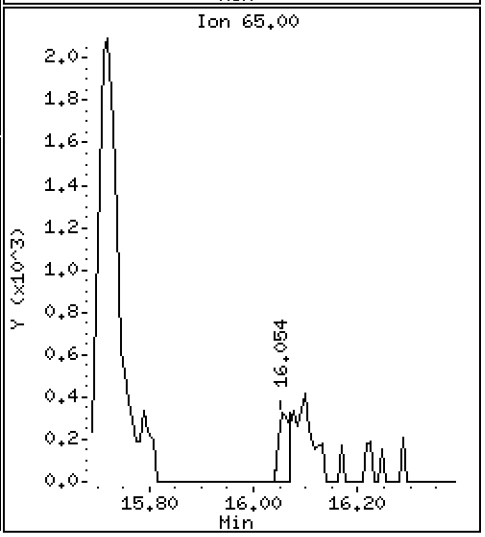


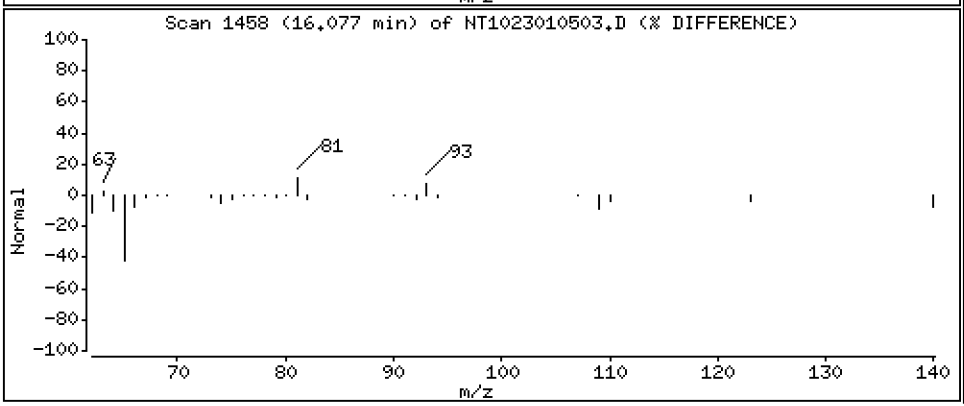












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

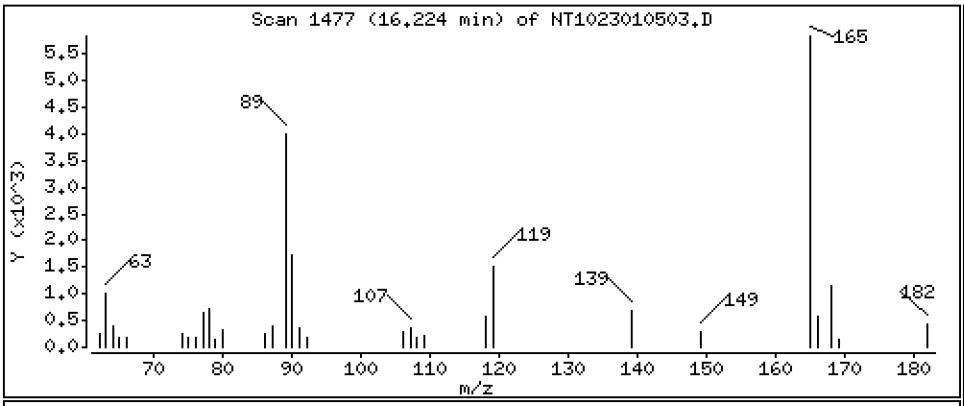
Operator: VTS

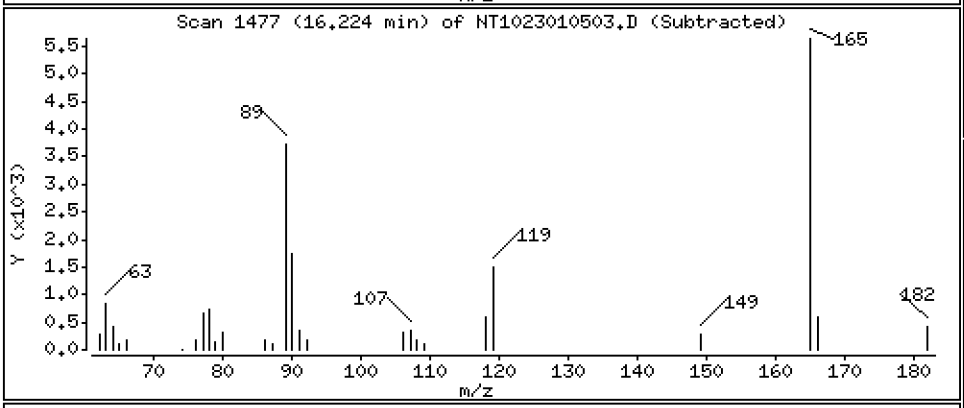
Column phase: ZB-5msi

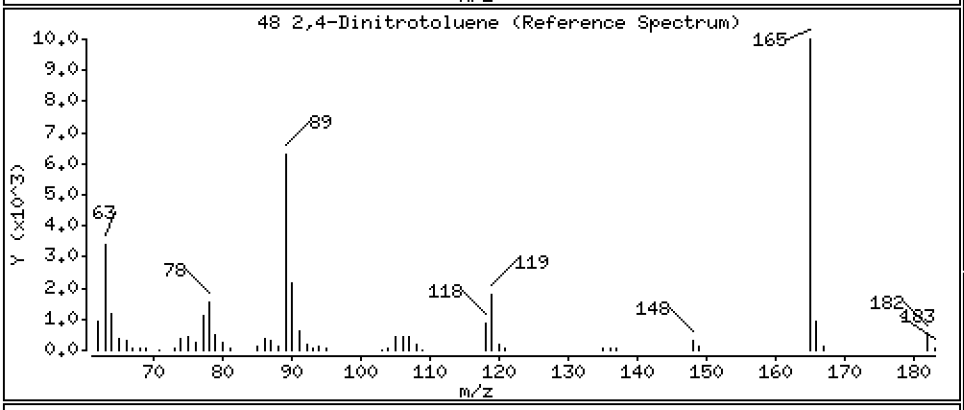
Column diameter: 0.25

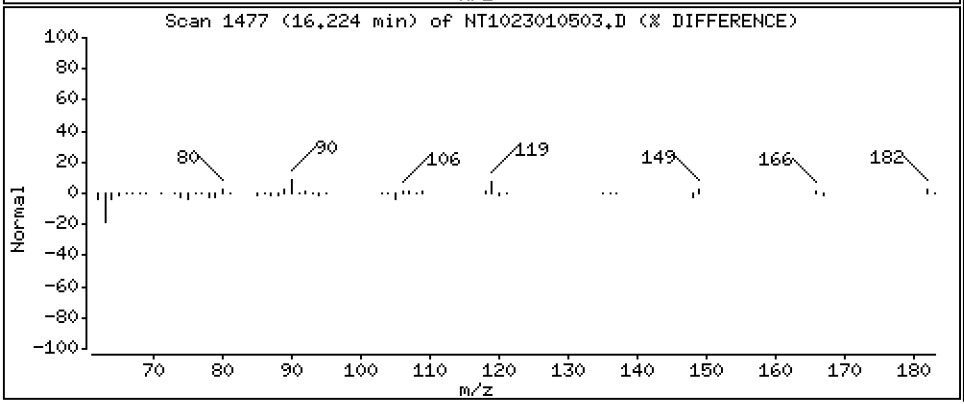
48 2,4-Dinitrotoluene

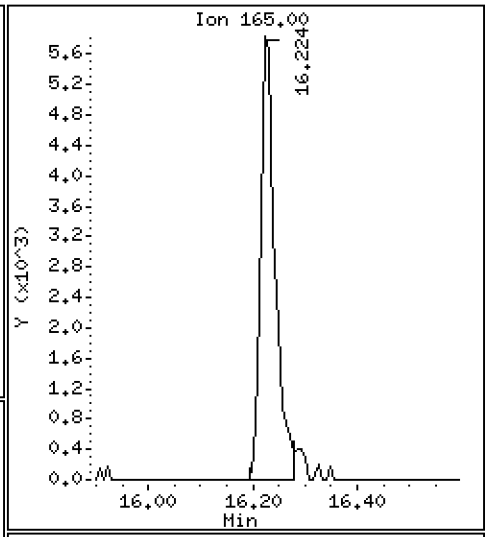
Concentration: 0.8064 ug/mL

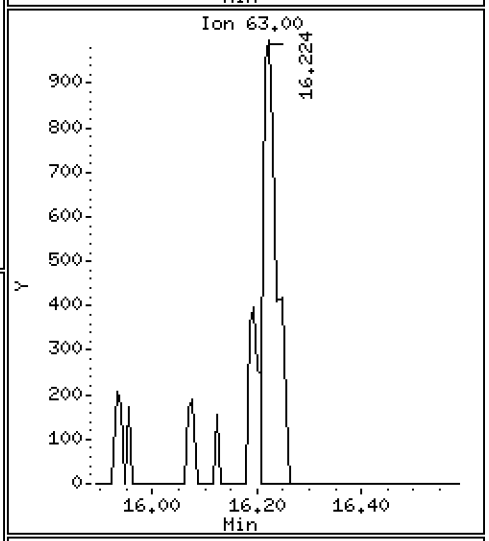


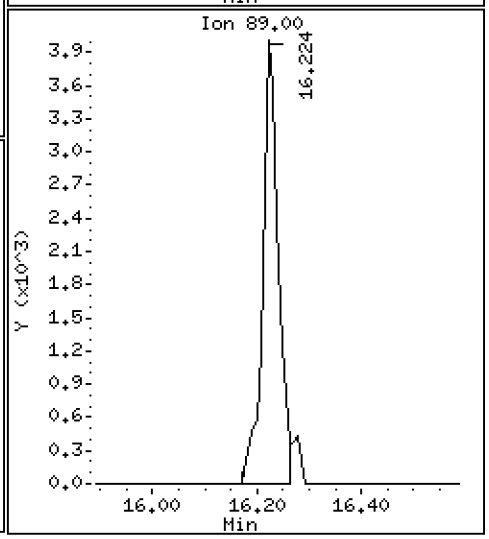












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

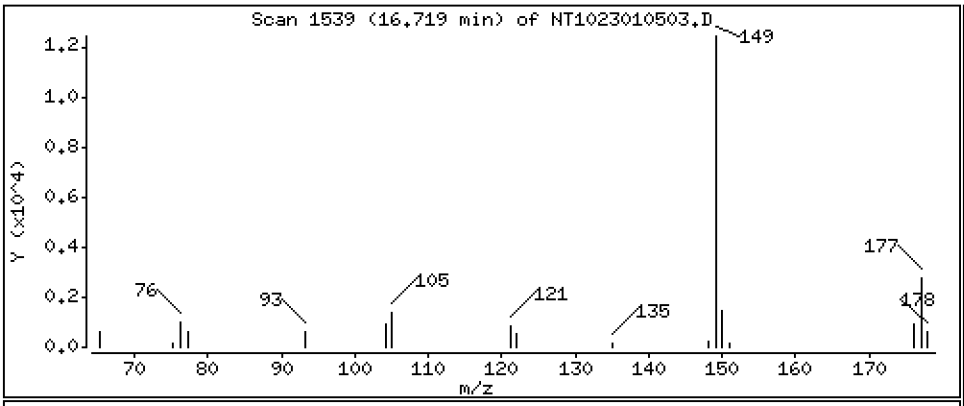
Operator: VTS

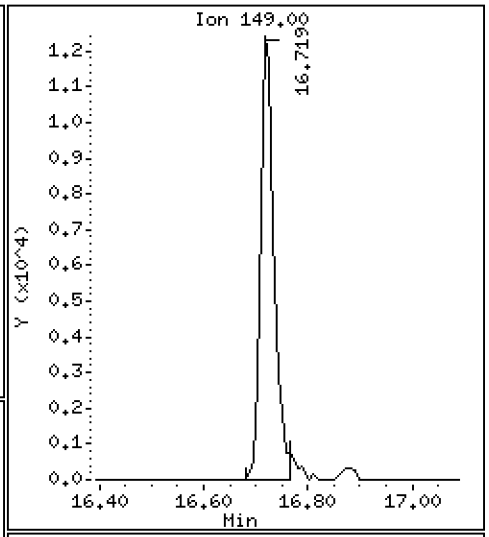
Column phase: ZB-5msi

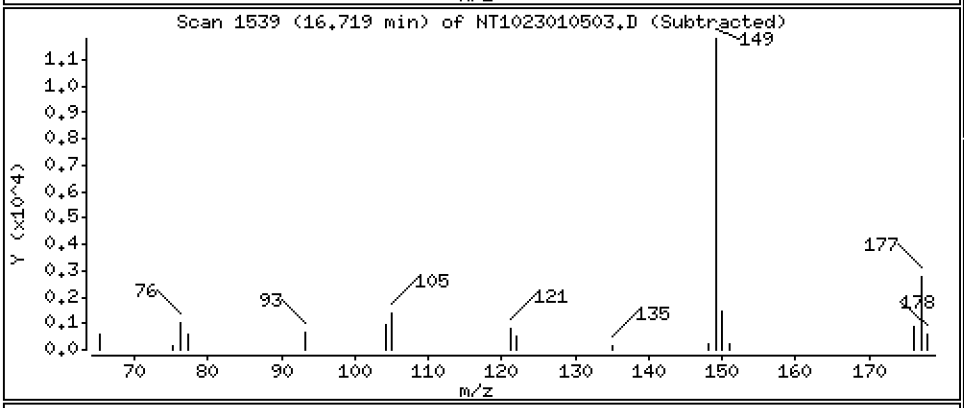
Column diameter: 0.25

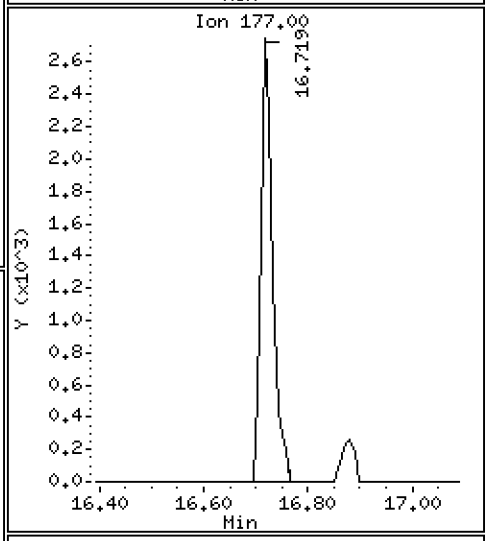
50 Diethylphthalate

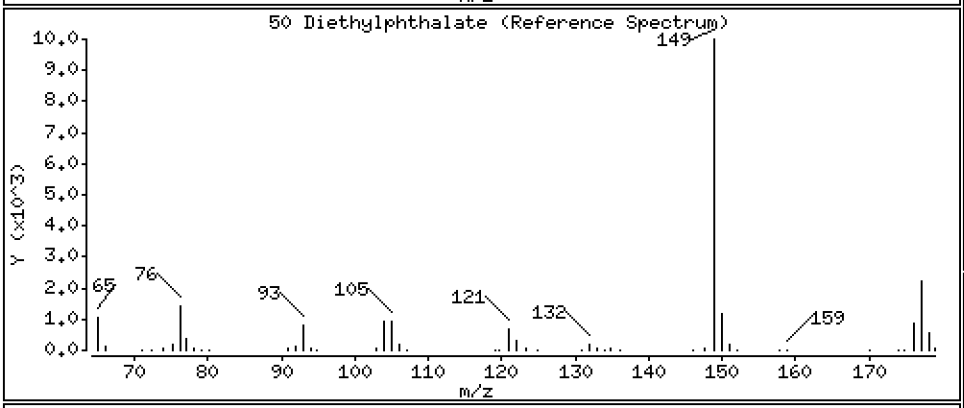
Concentration: 0.4600 ug/mL

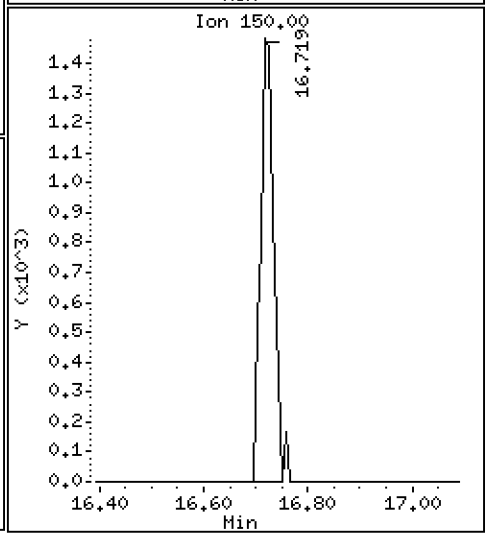


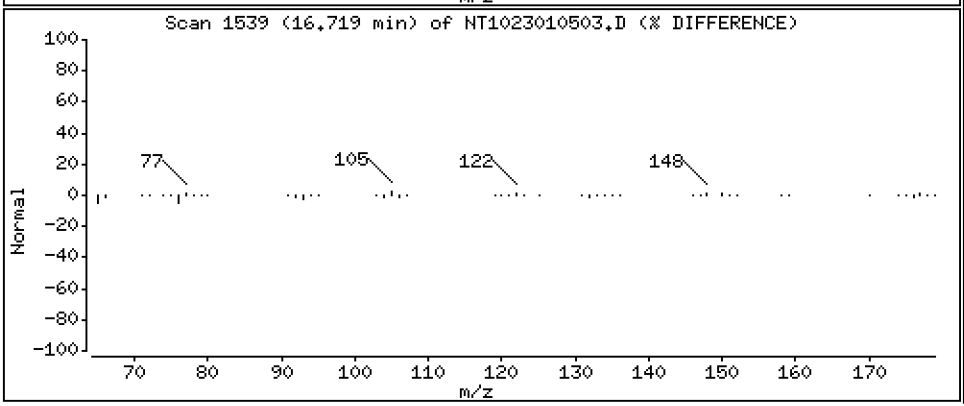












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

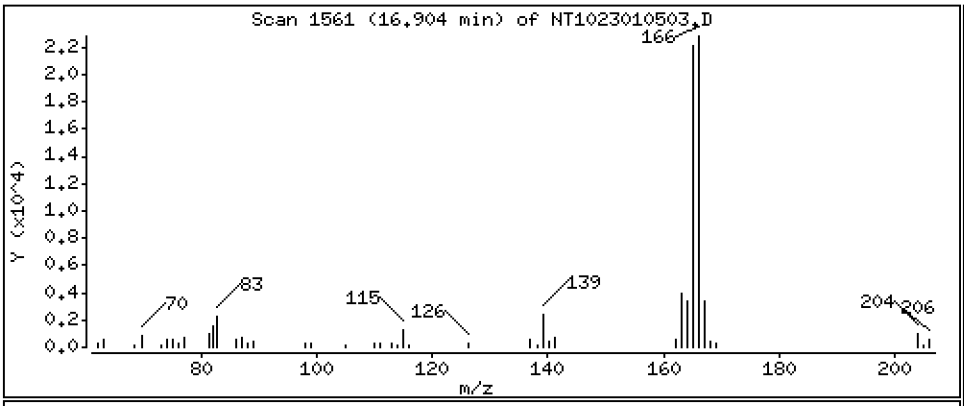
Operator: VTS

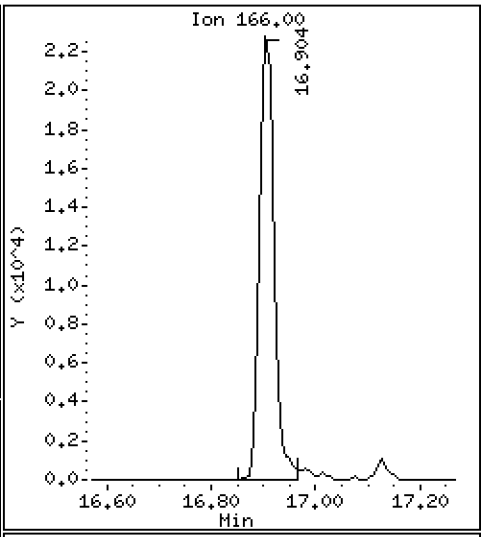
Column phase: ZB-5msi

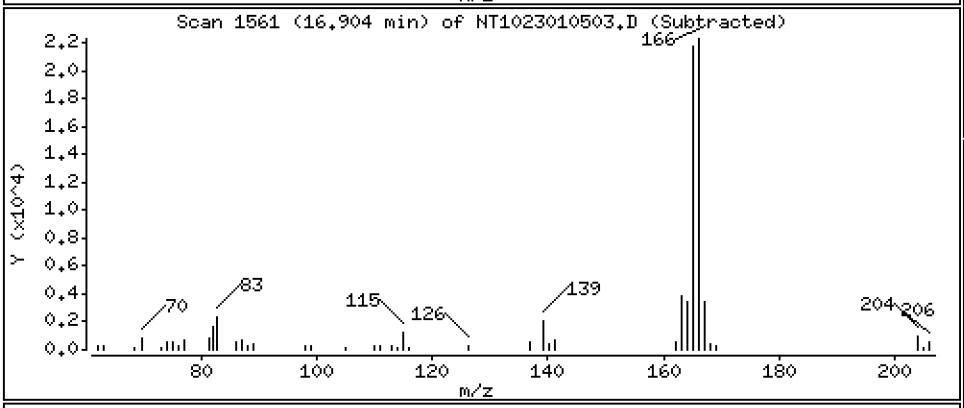
Column diameter: 0.25

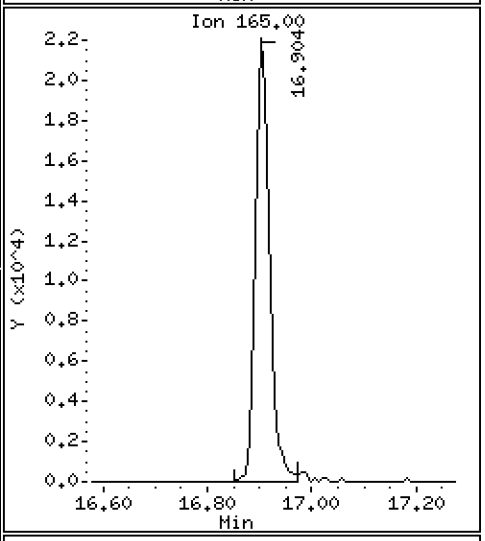
49 Fluorene

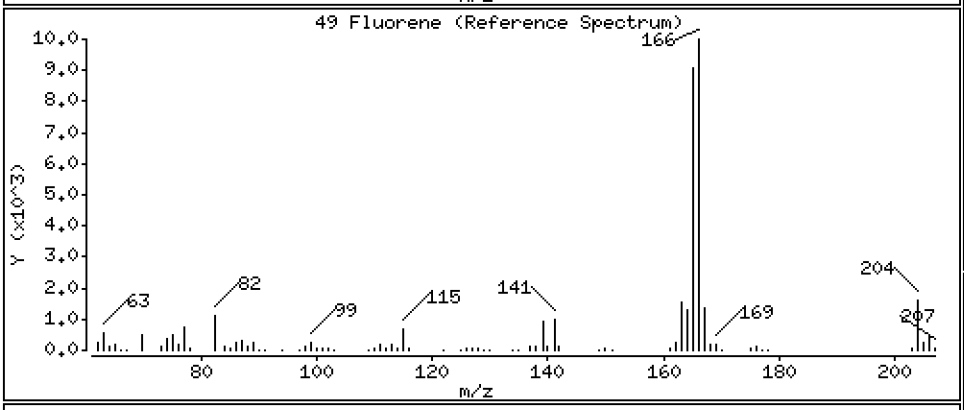
Concentration: 0.5409 ug/mL

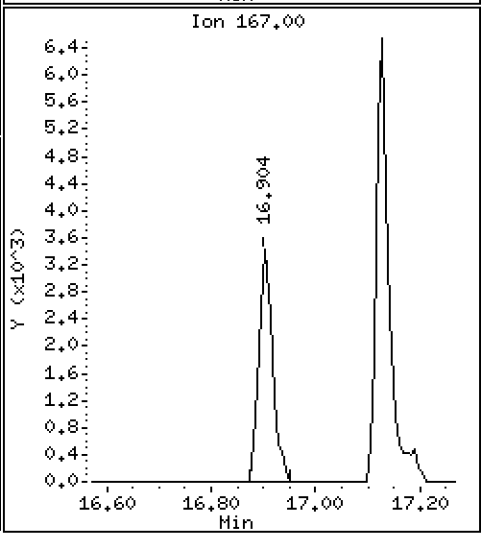


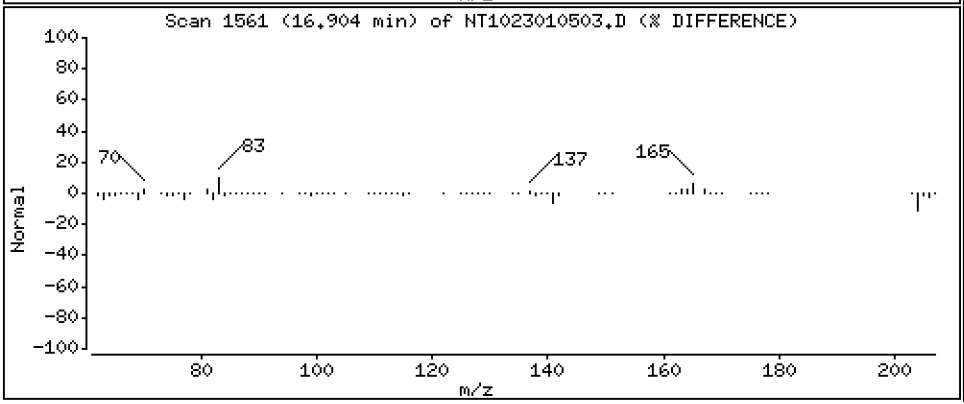












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

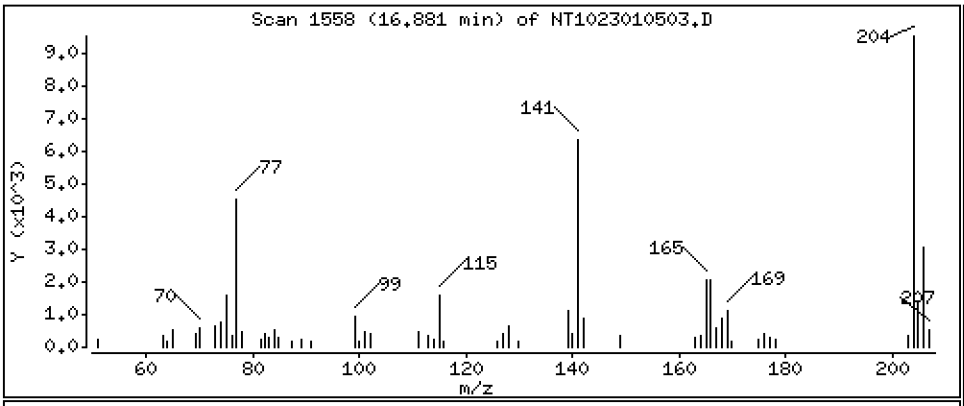
Operator: VTS

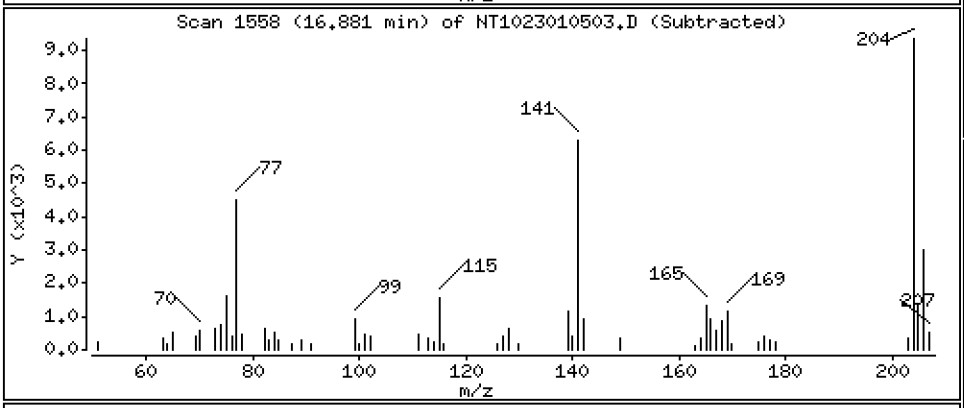
Column phase: ZB-5msi

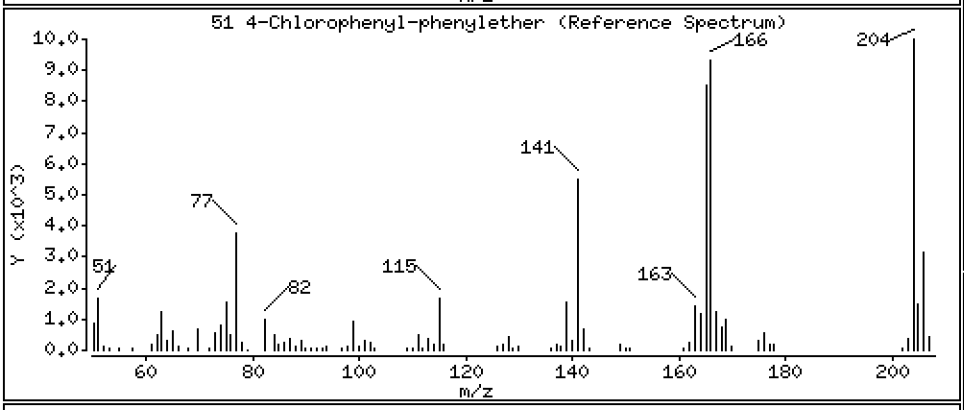
Column diameter: 0.25

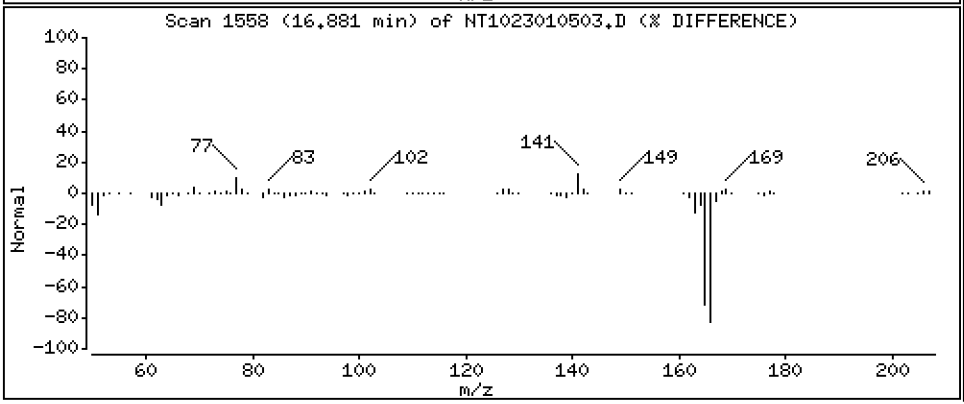
51 4-Chlorophenyl-phenylether

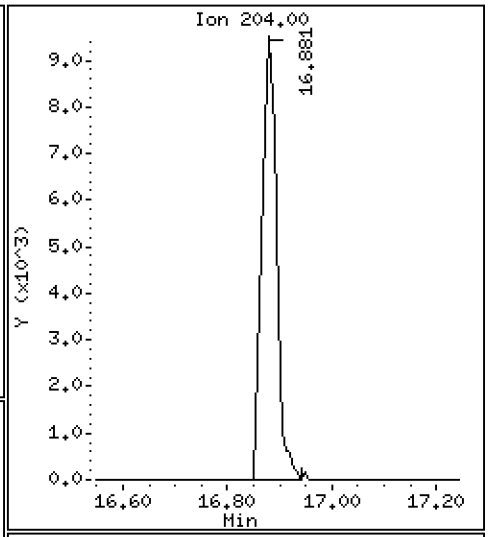
Concentration: 0.5893 ug/mL

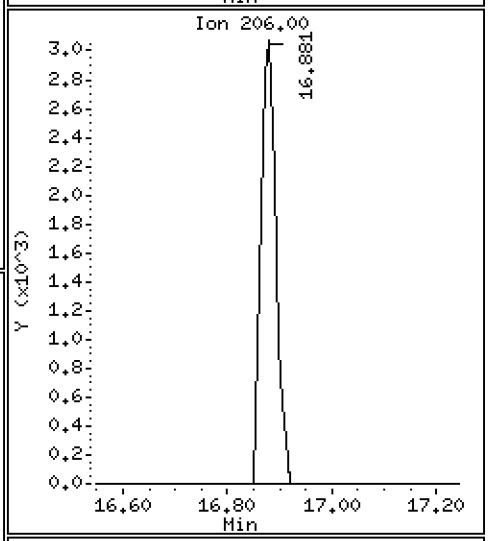


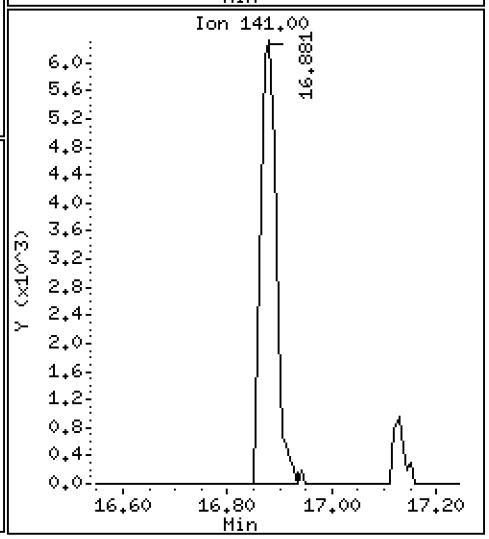












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

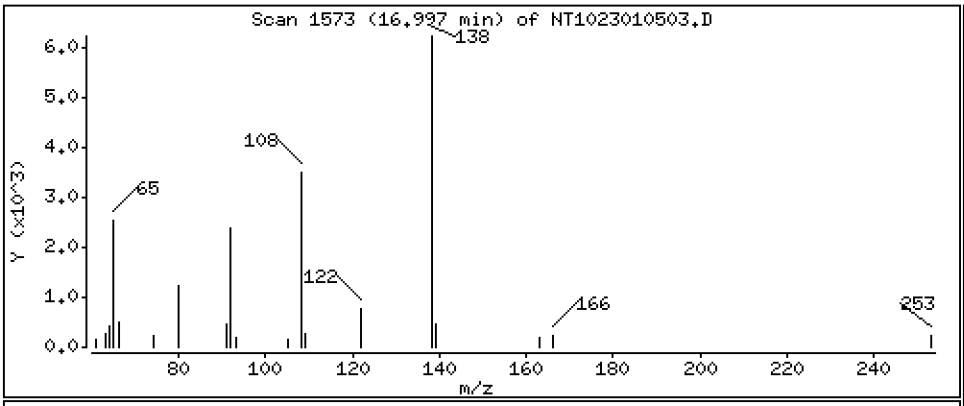
Operator: VTS

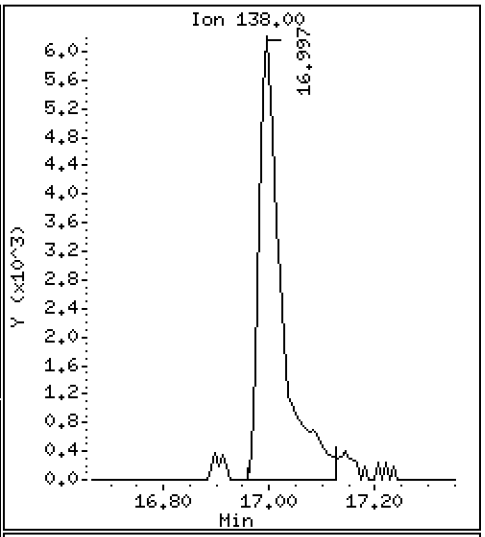
Column phase: ZB-5msi

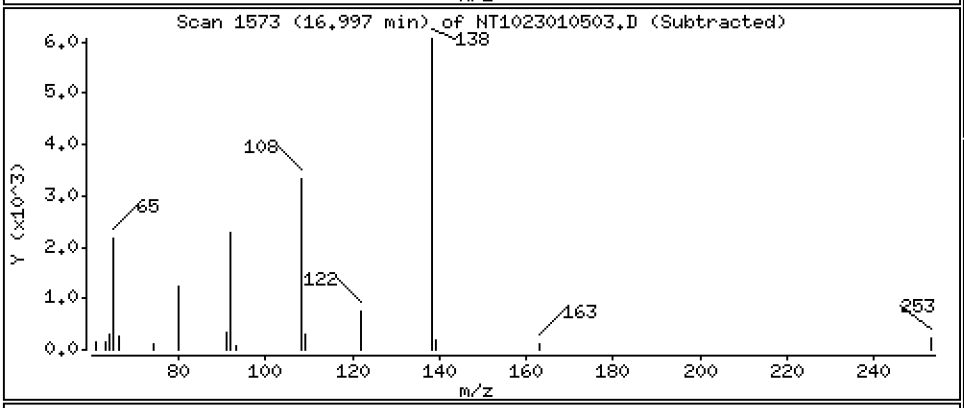
Column diameter: 0.25

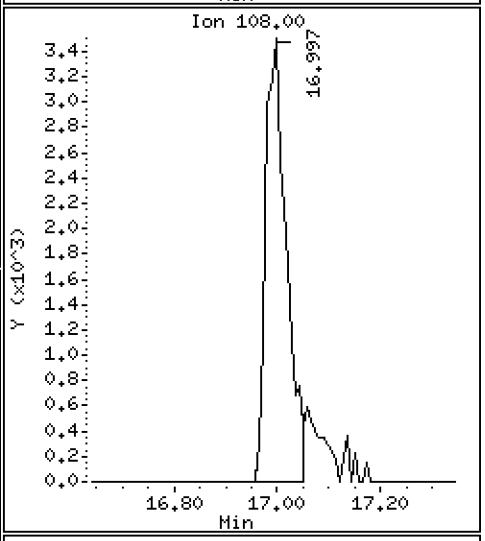
52 4-Nitroaniline

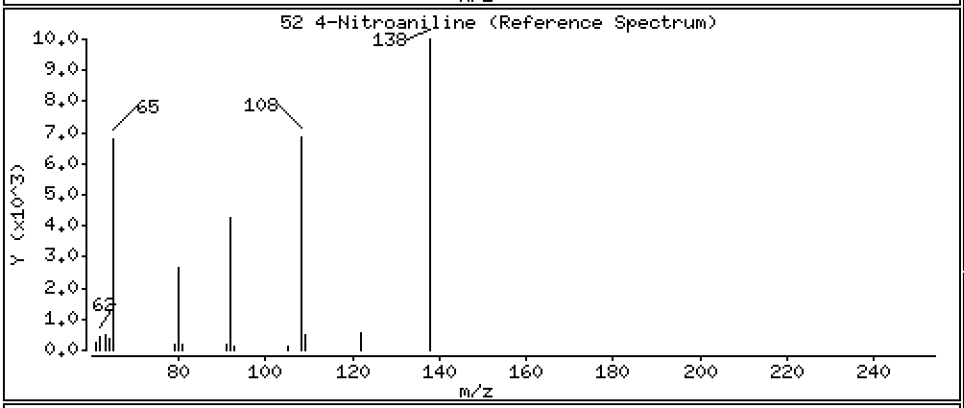
Concentration: 0.9068 ug/mL

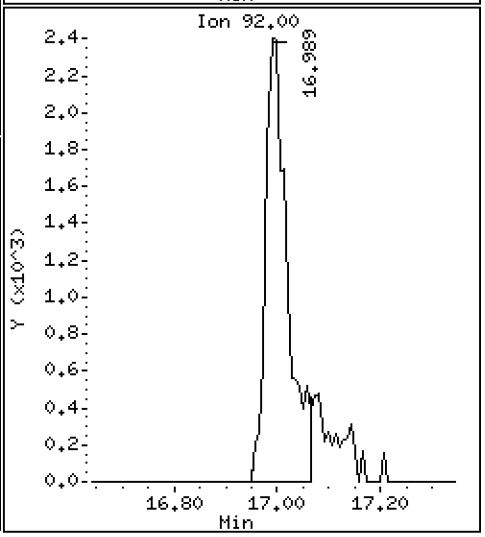


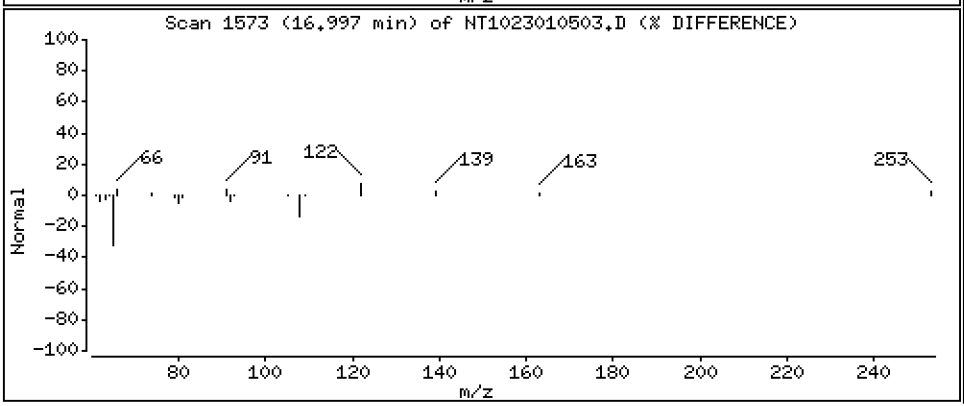












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

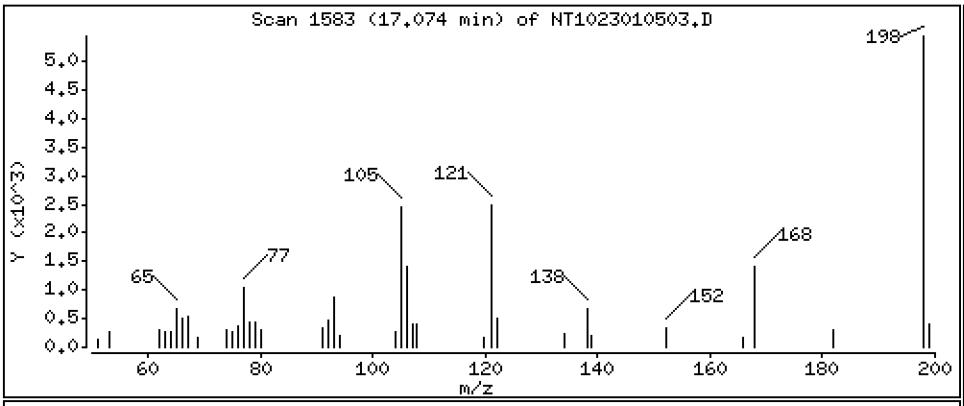
Operator: VTS

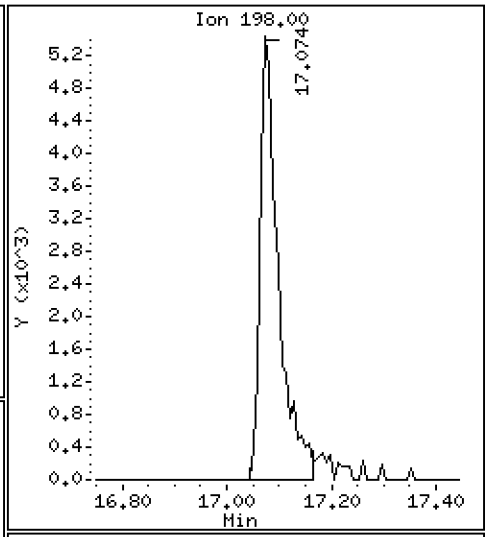
Column phase: ZB-5msi

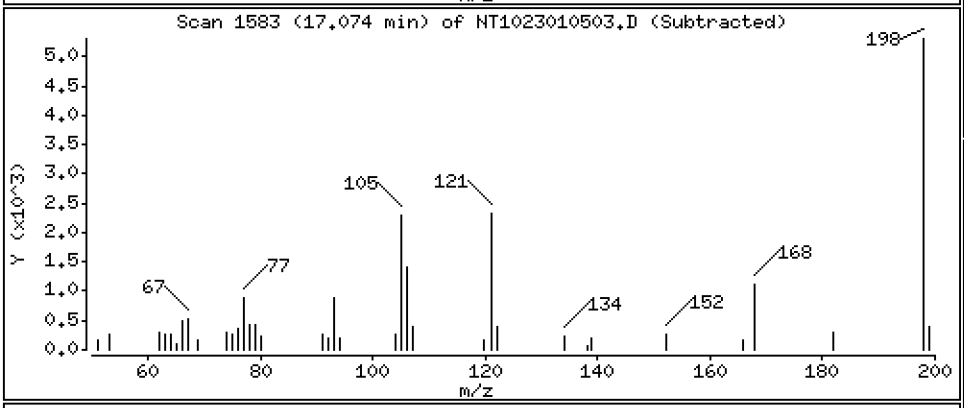
Column diameter: 0.25

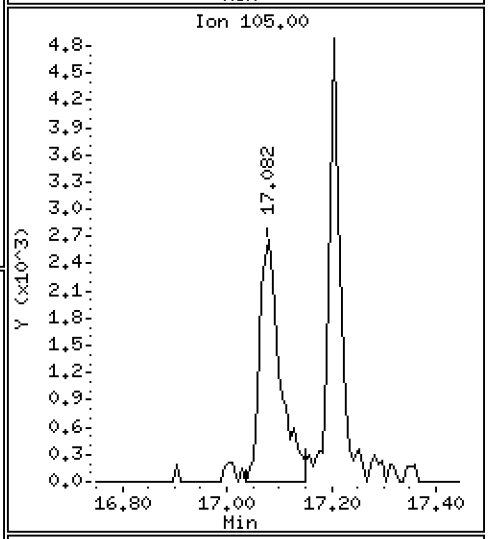
53 4,6-Dinitro-2-methylphenol

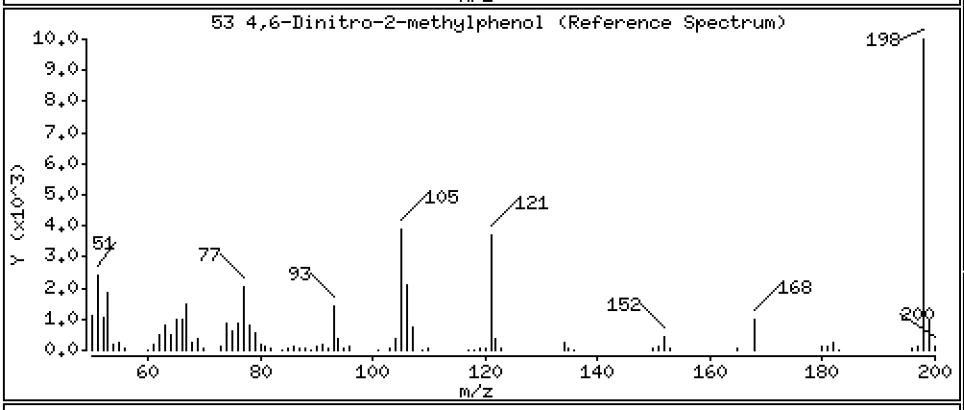
Concentration: 1.114 ug/mL

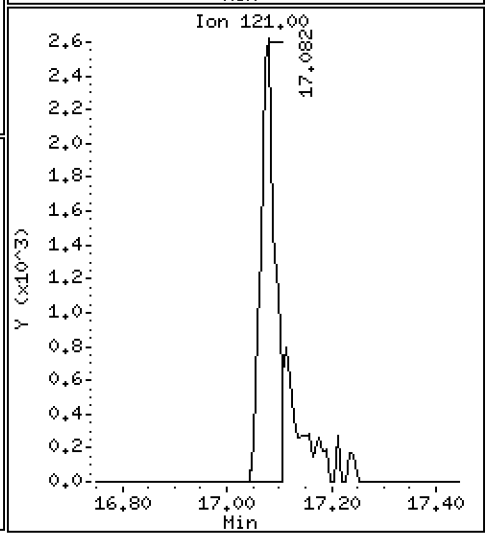


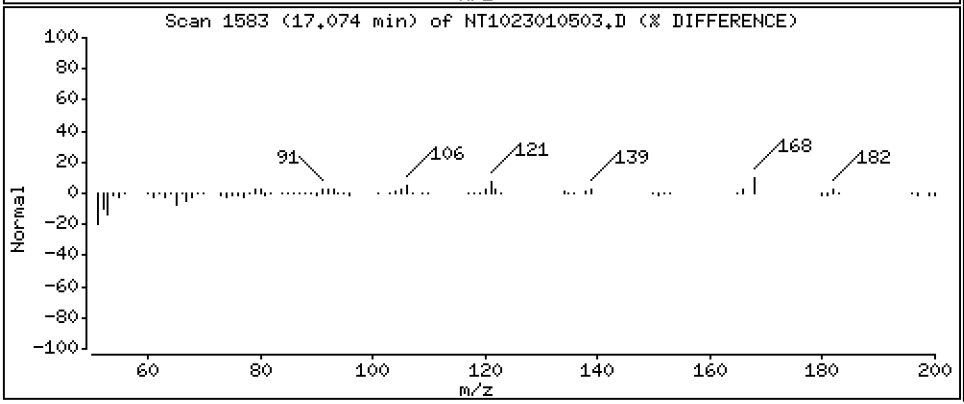












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

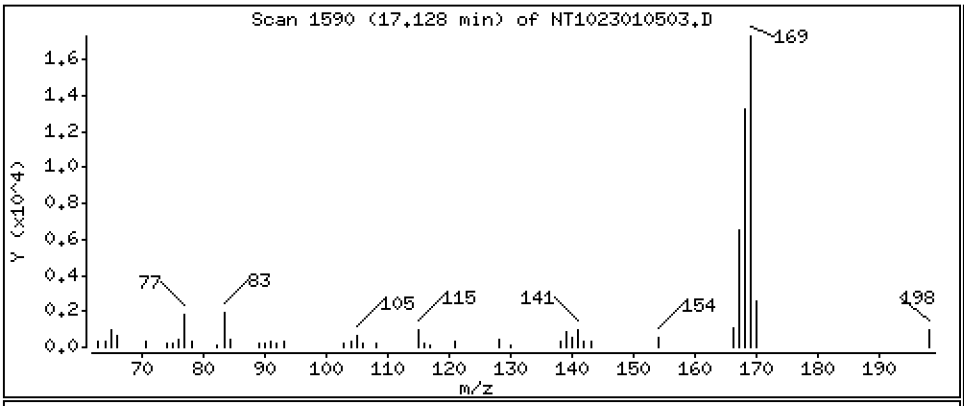
Operator: VTS

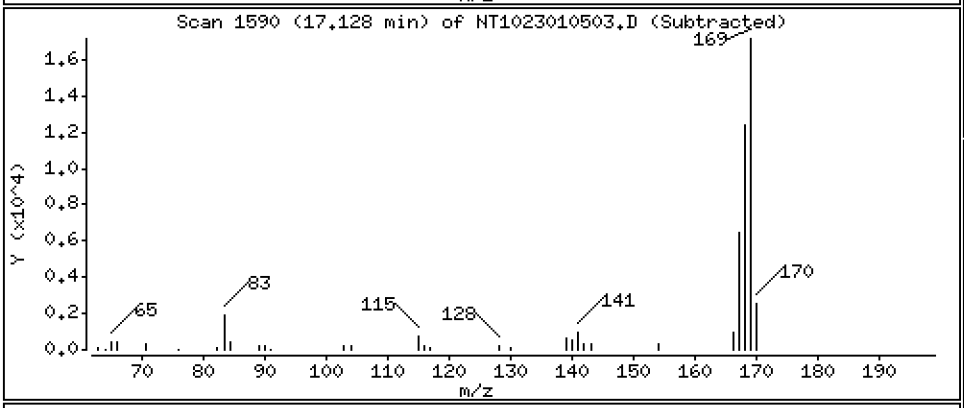
Column phase: ZB-5msi

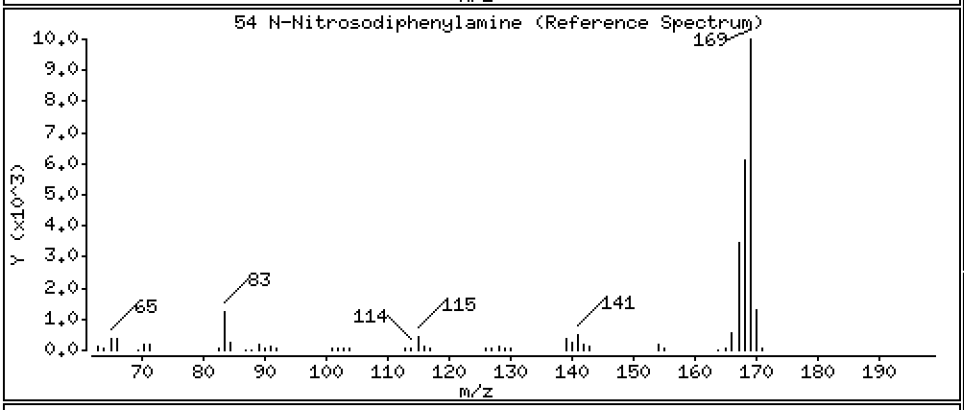
Column diameter: 0.25

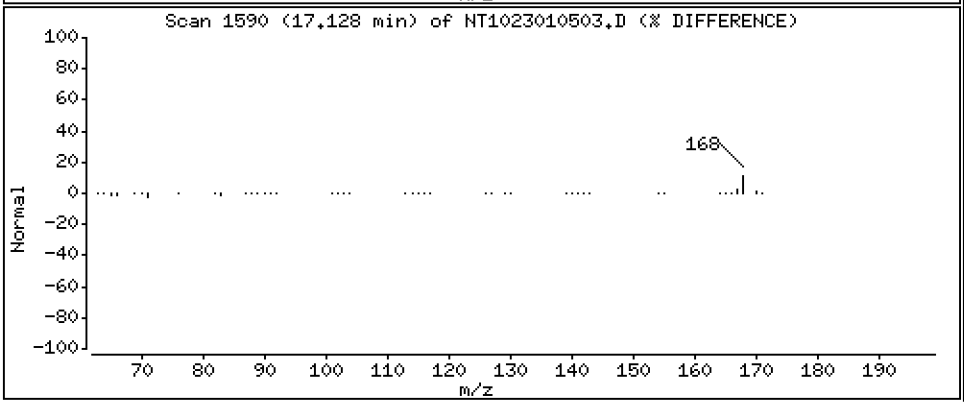
54 N-Nitrosodiphenylamine

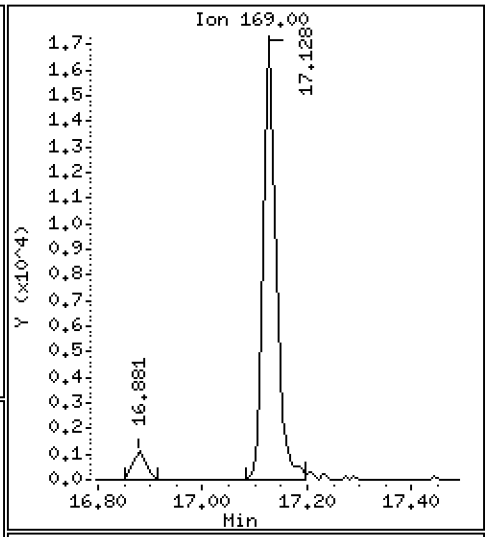
Concentration: 0.5578 ug/mL

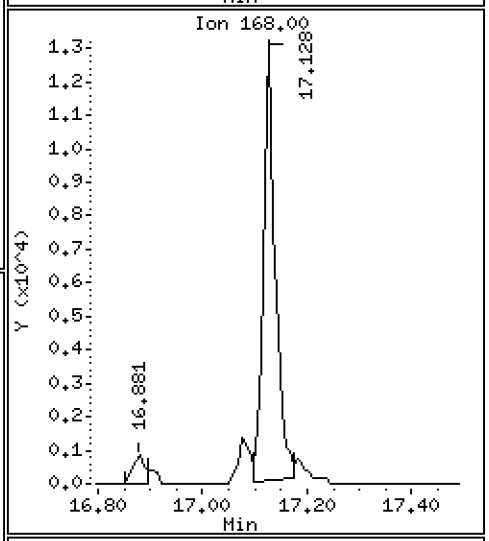


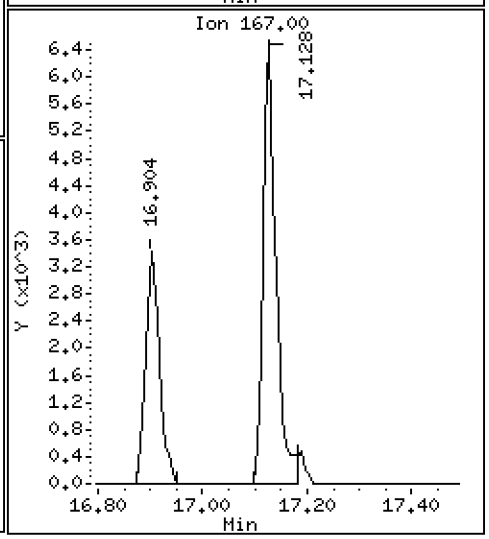












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

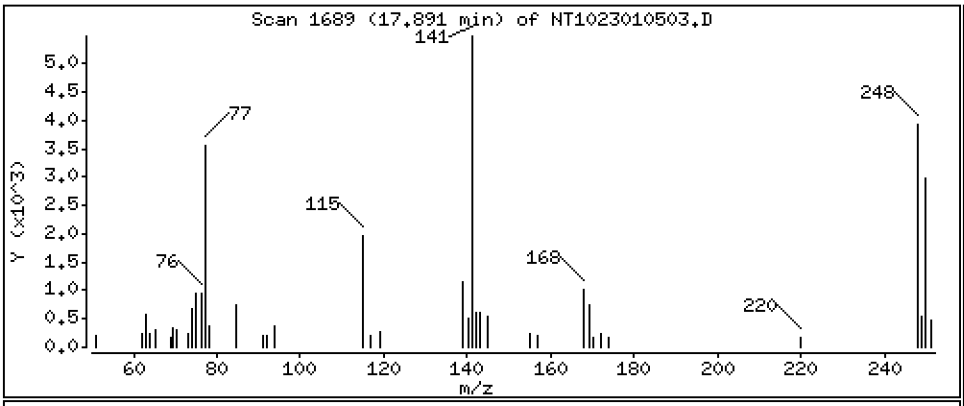
Operator: VTS

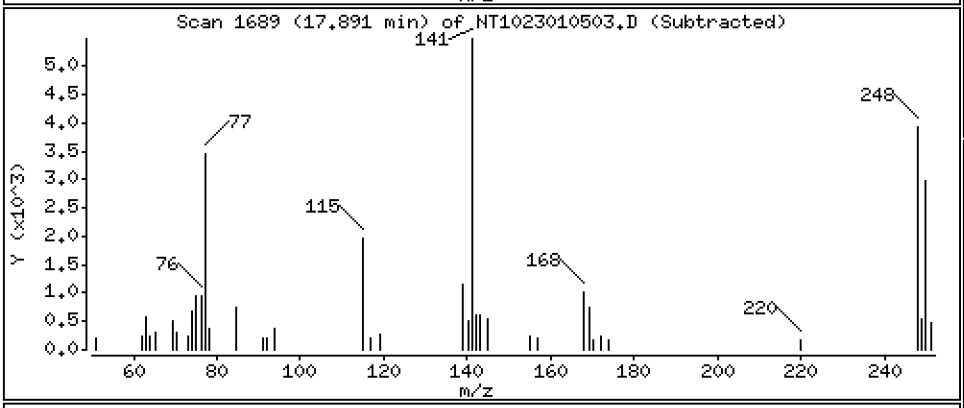
Column phase: ZB-5msi

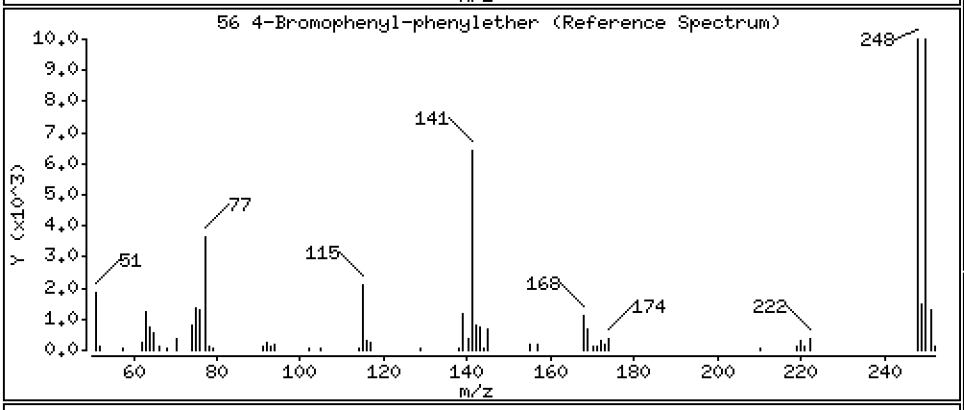
Column diameter: 0.25

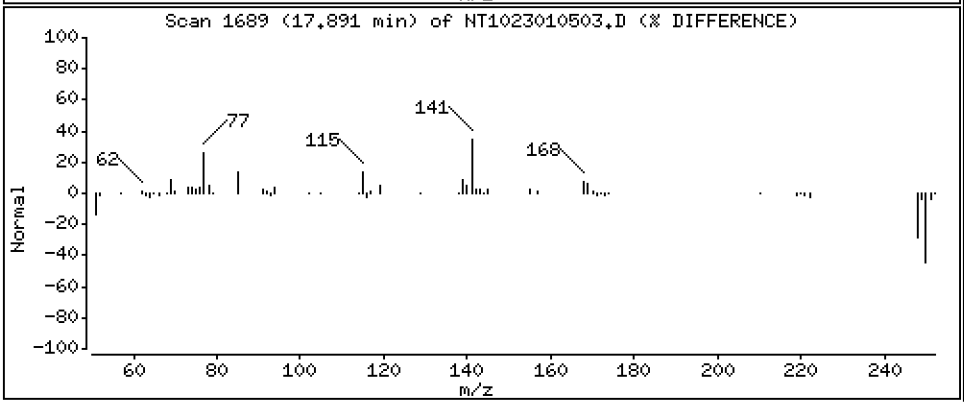
56 4-Bromophenyl-phenylether

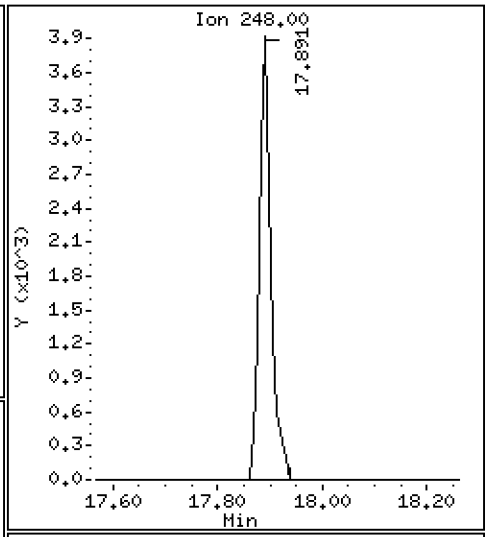
Concentration: 0.4493 ug/mL

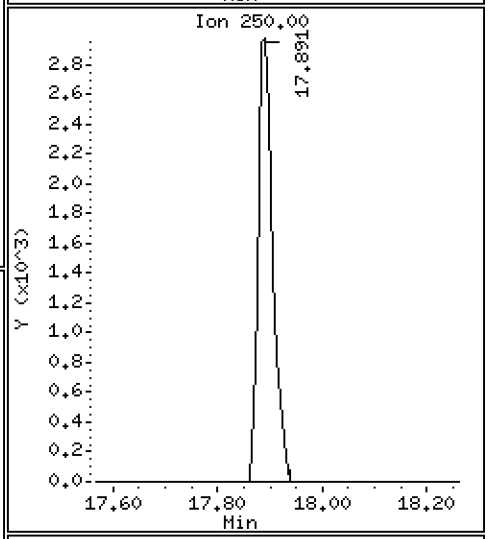


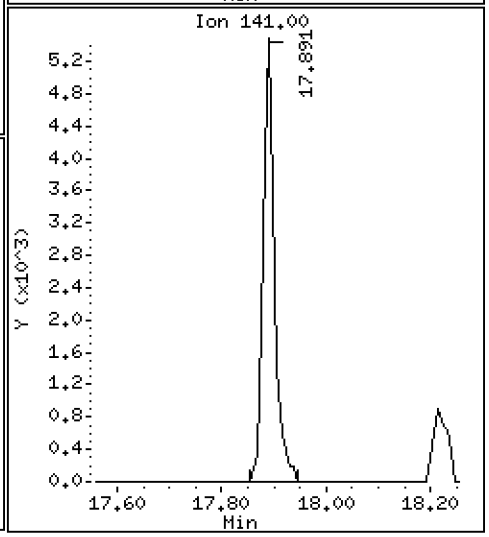












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

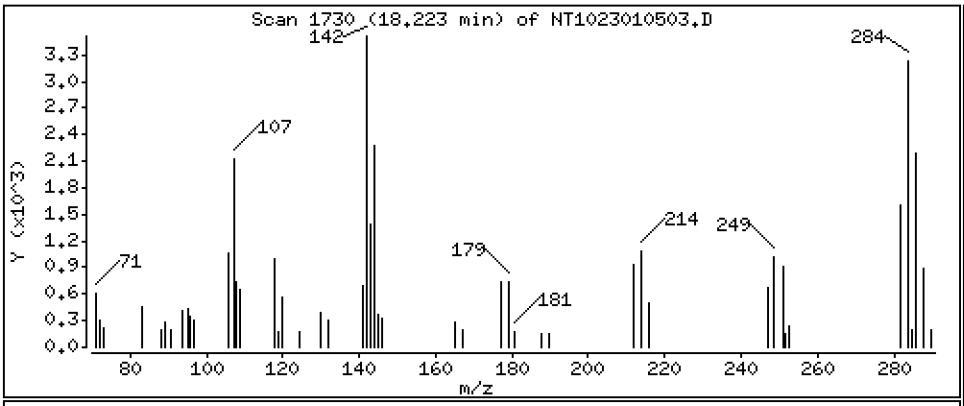
Operator: VTS

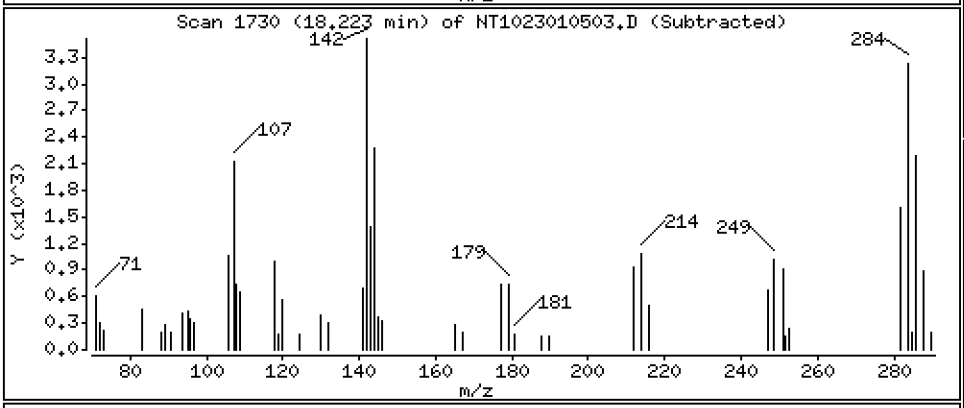
Column phase: ZB-5msi

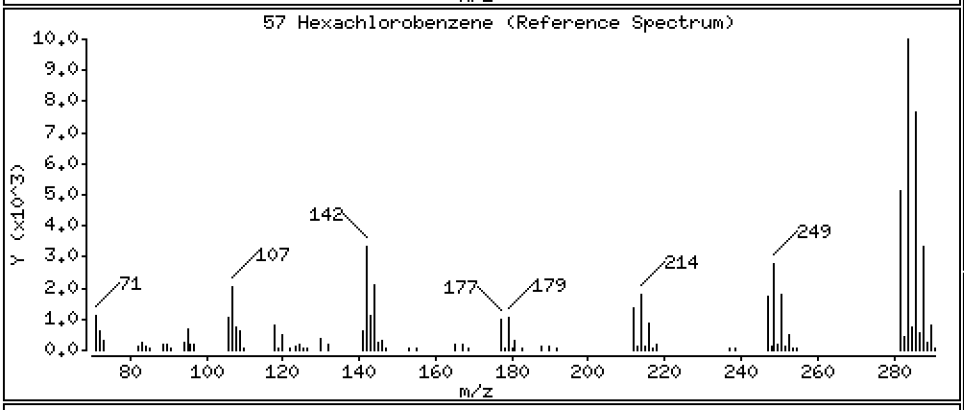
Column diameter: 0.25

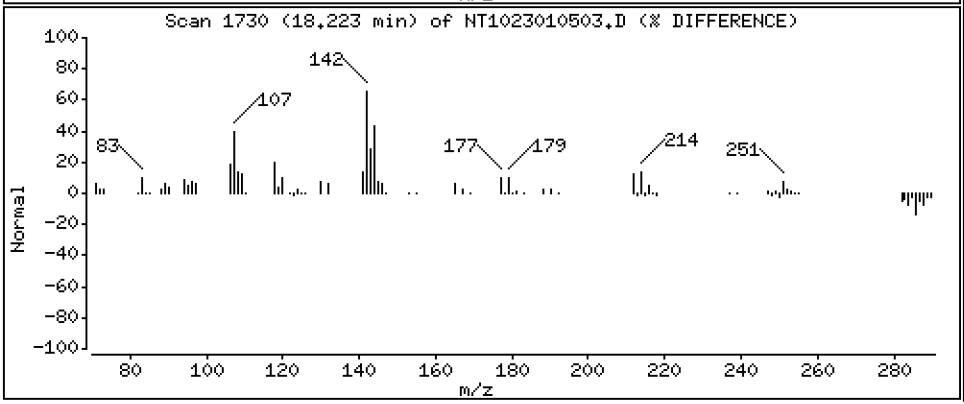
57 Hexachlorobenzene

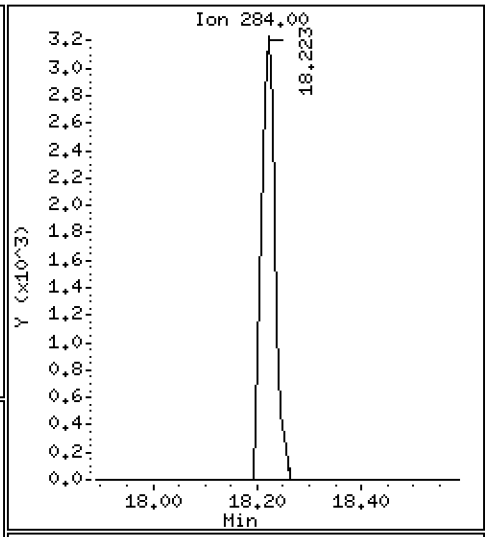
Concentration: 0.5354 ug/mL

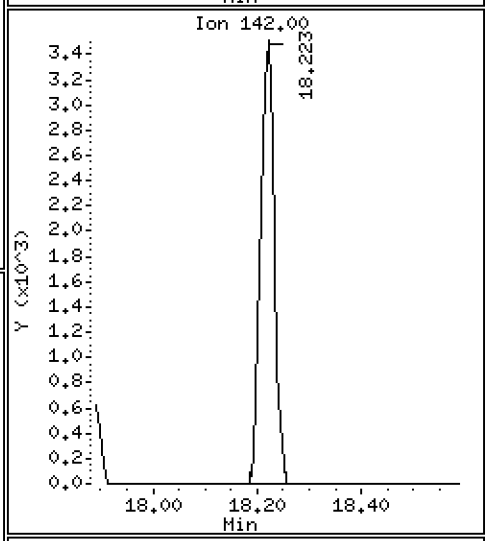


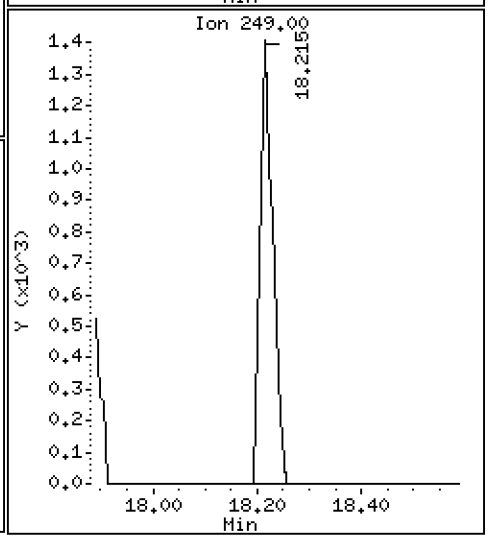












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

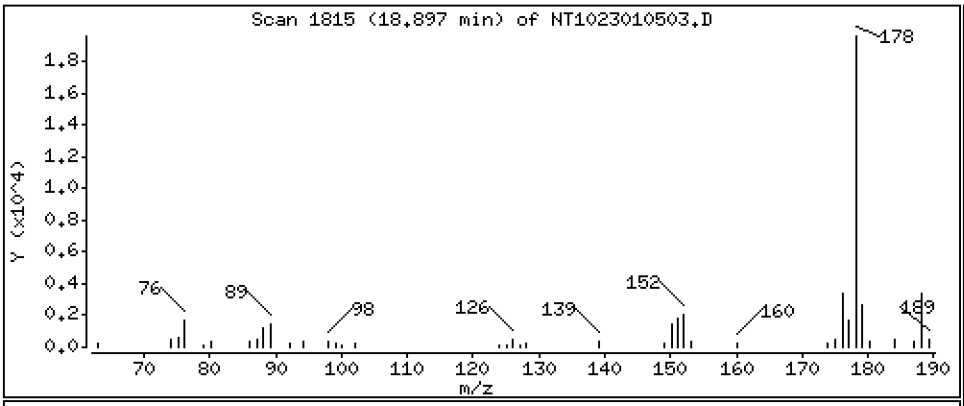
Operator: VTS

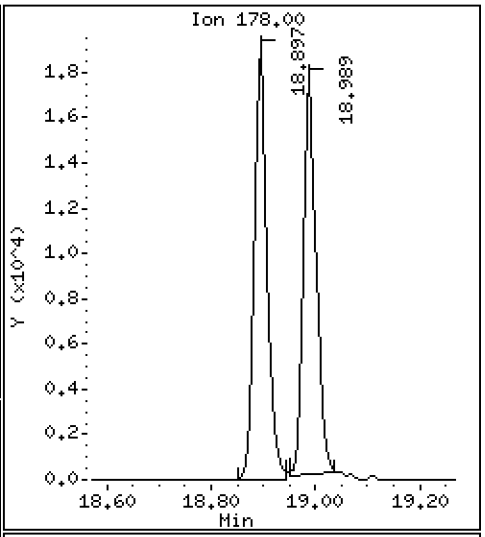
Column phase: ZB-5msi

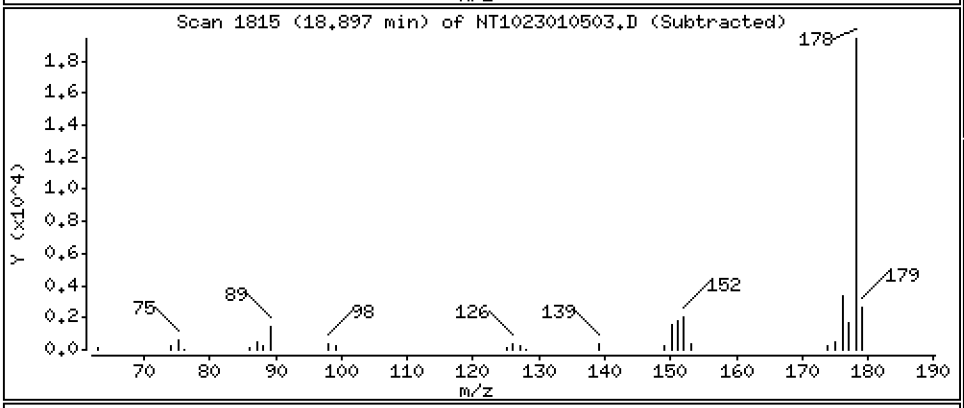
Column diameter: 0.25

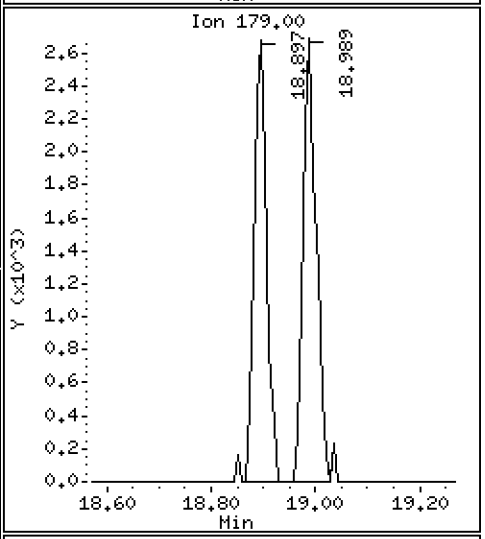
60 Phenanthrene

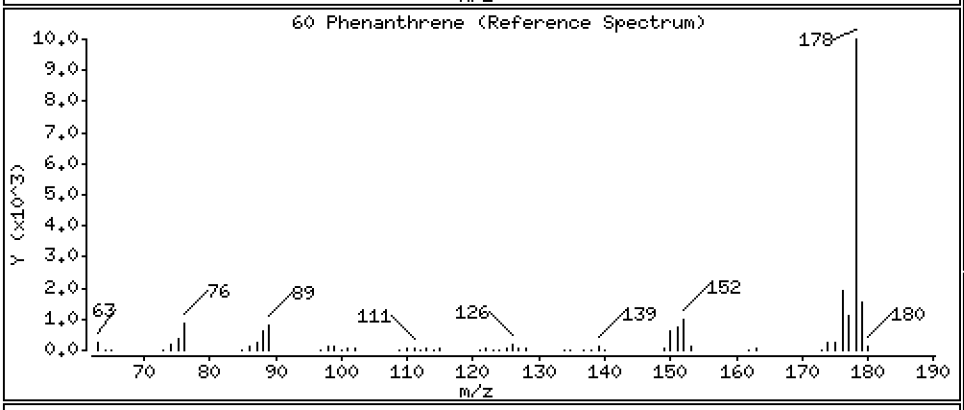
Concentration: 0.4815 ug/mL

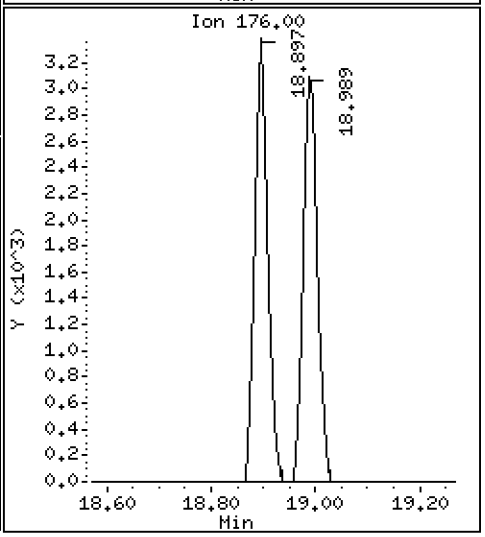


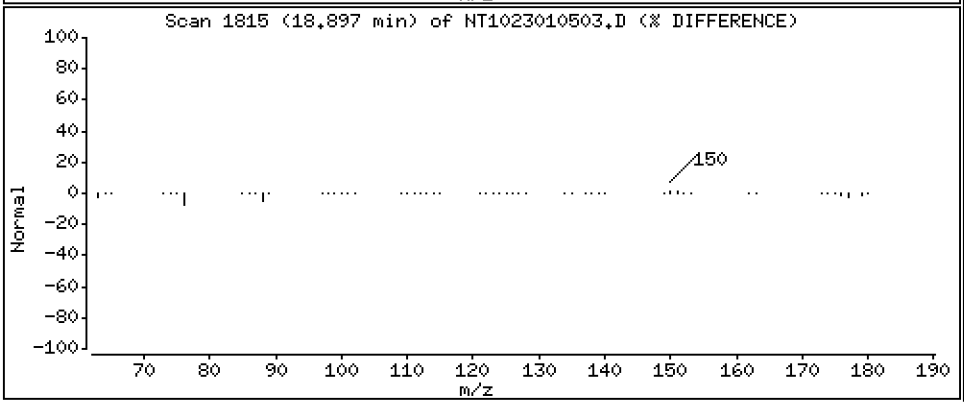












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

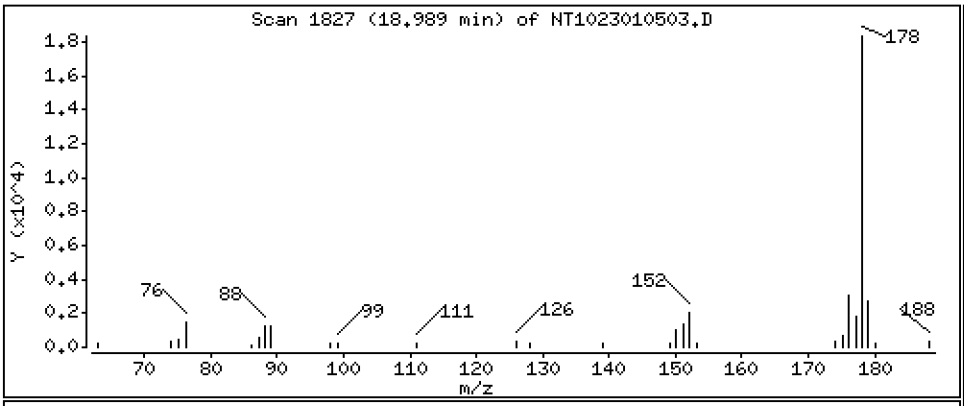
Operator: VTS

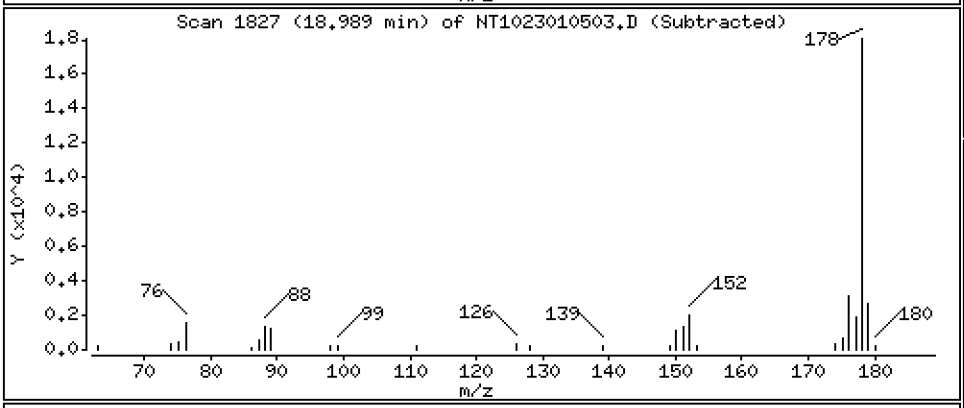
Column phase: ZB-5msi

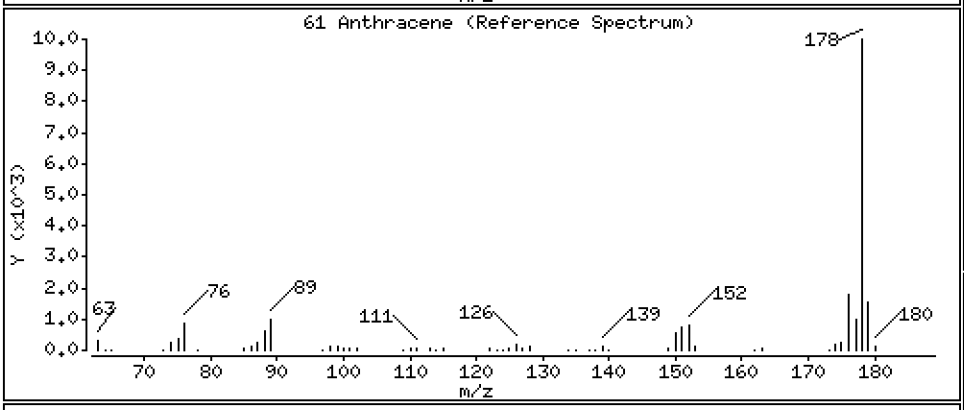
Column diameter: 0.25

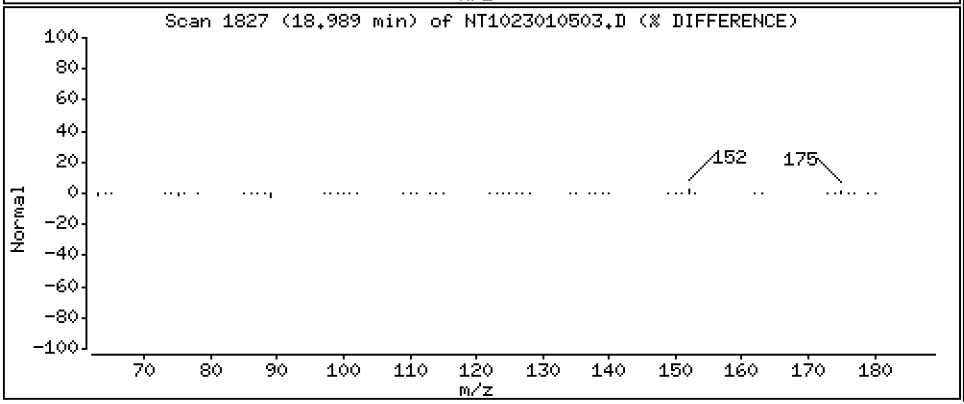
61 Anthracene

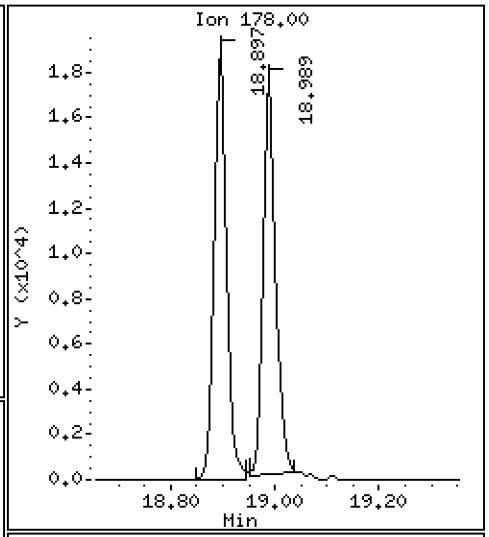
Concentration: 0.4351 ug/mL

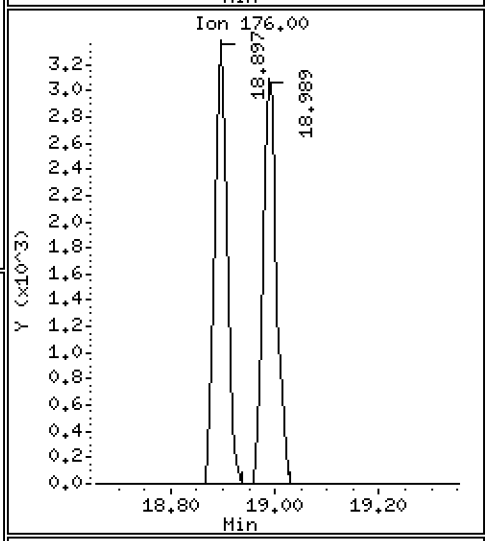


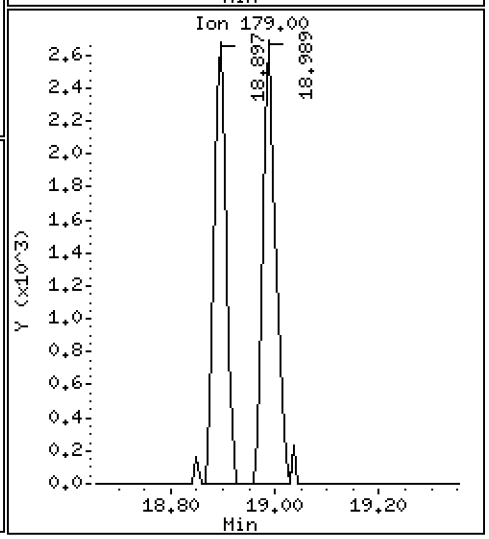












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

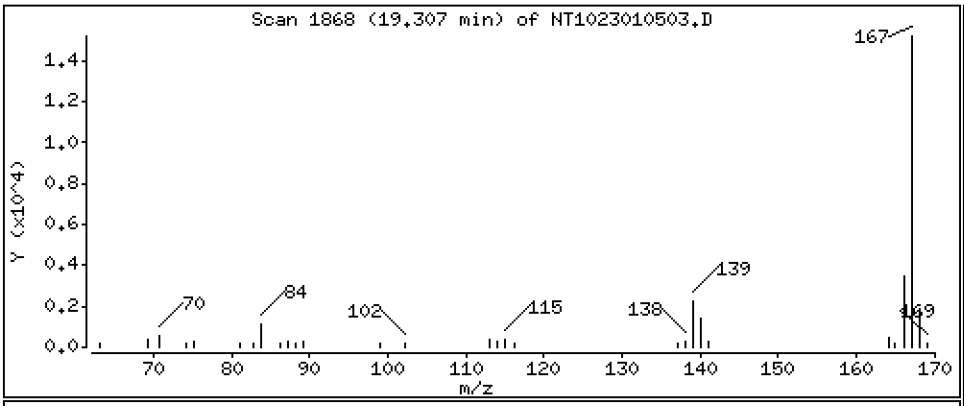
Operator: VTS

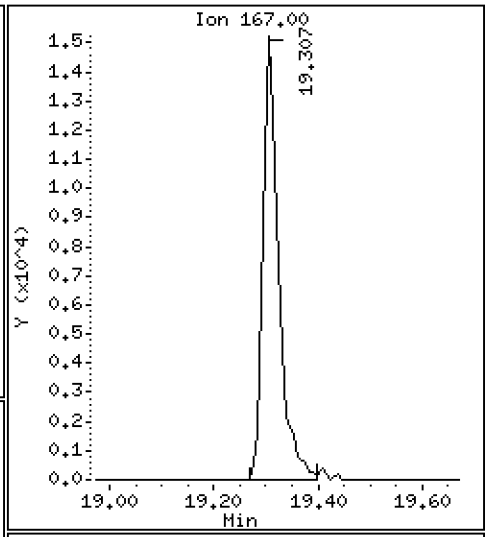
Column phase: ZB-5msi

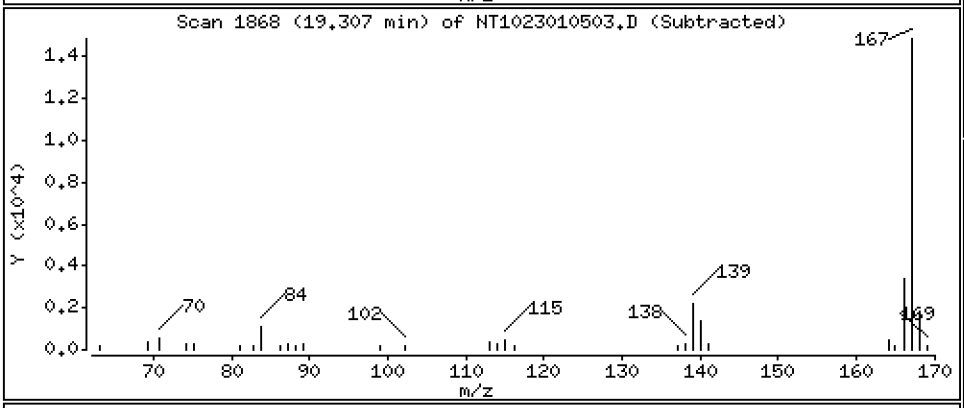
Column diameter: 0.25

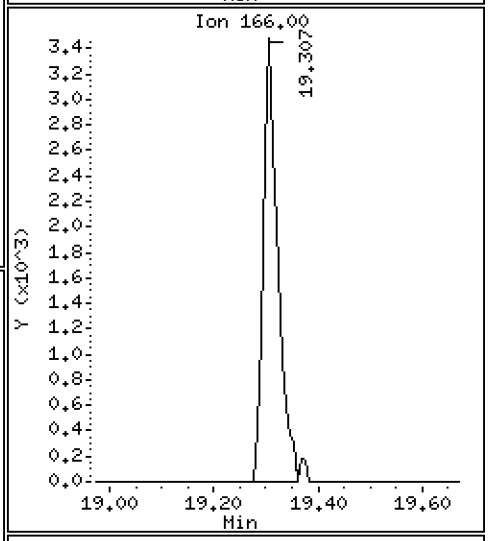
62 Carbazole

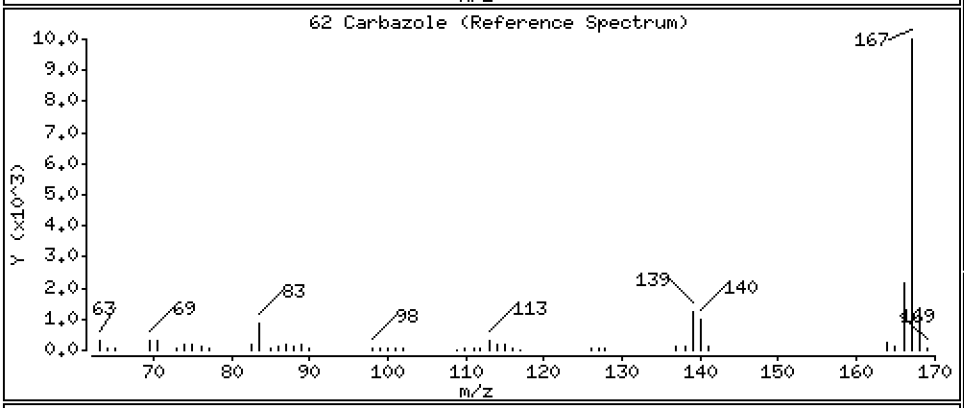
Concentration: 0.4419 ug/mL

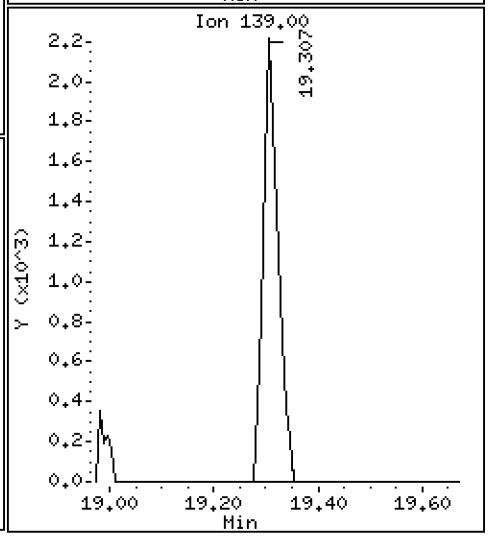


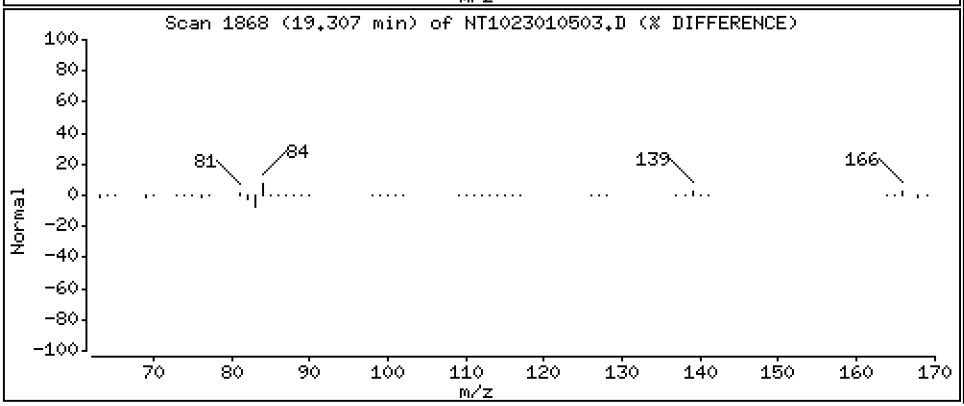












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

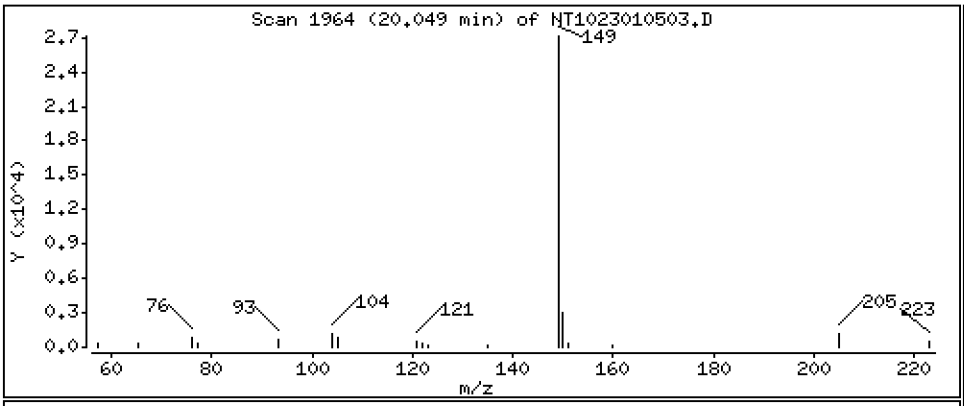
Operator: VTS

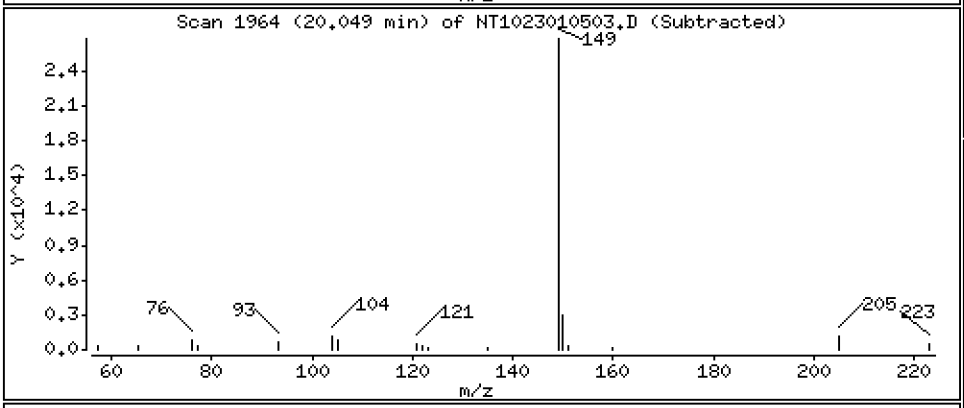
Column phase: ZB-5msi

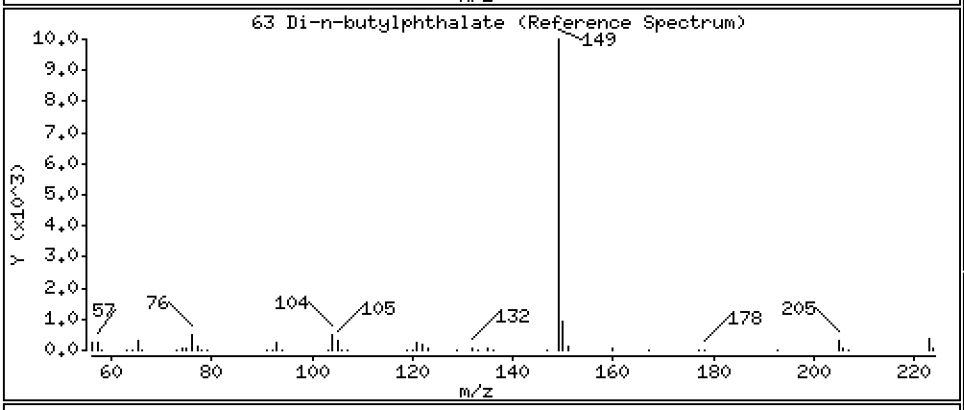
Column diameter: 0.25

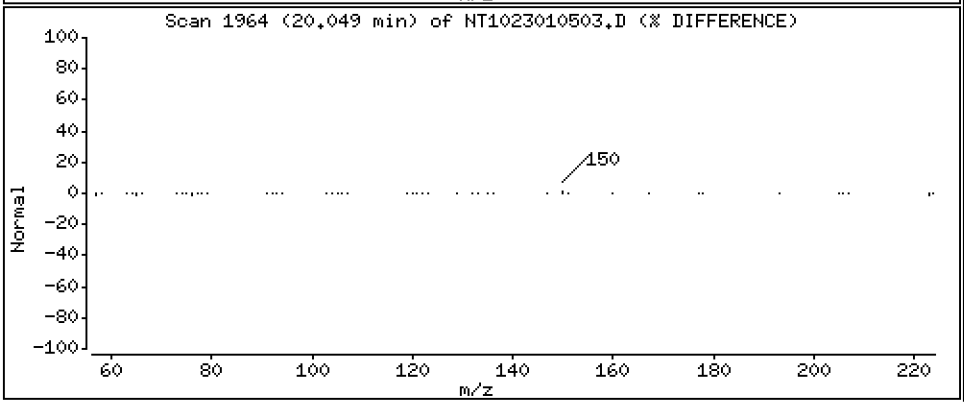
63 Di-n-butylphthalate

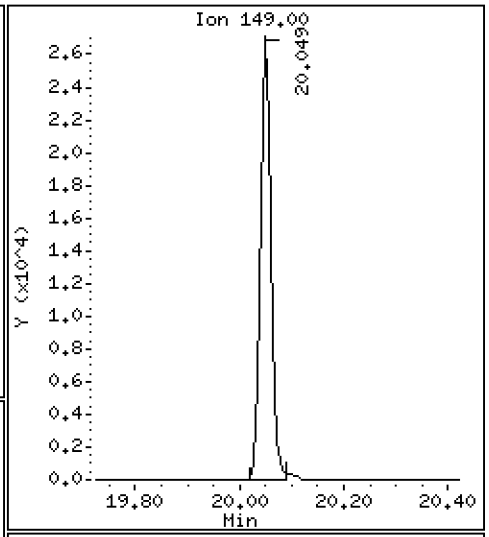
Concentration: 0.4148 ug/mL

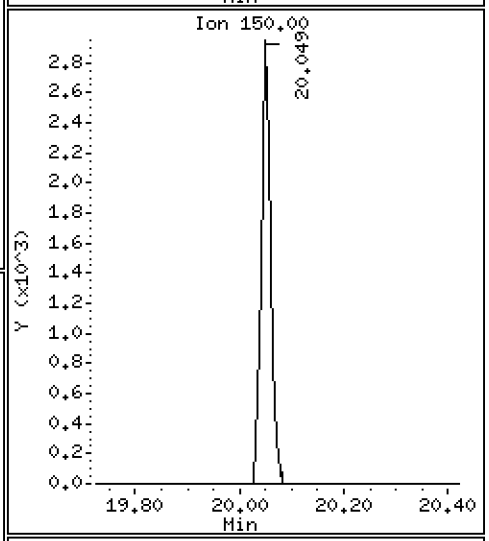


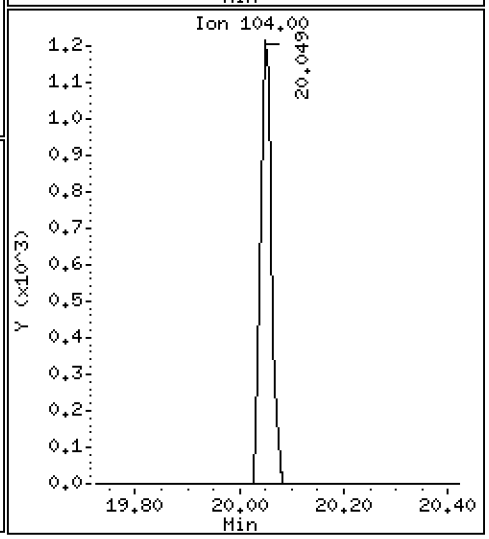












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

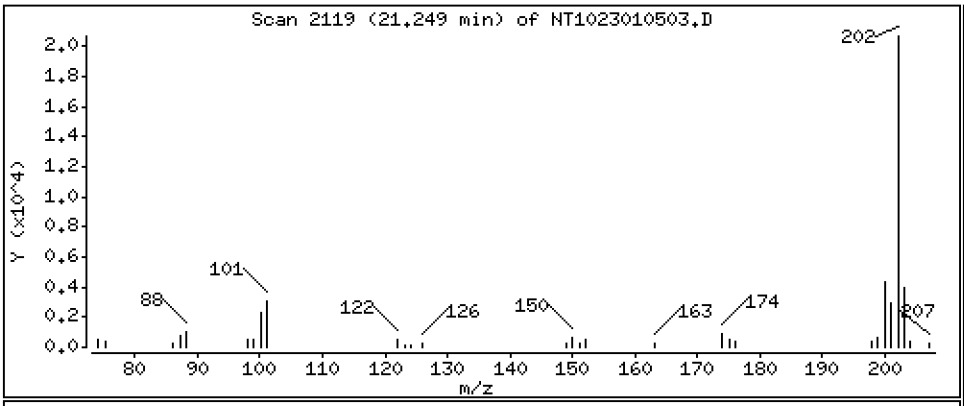
Operator: VTS

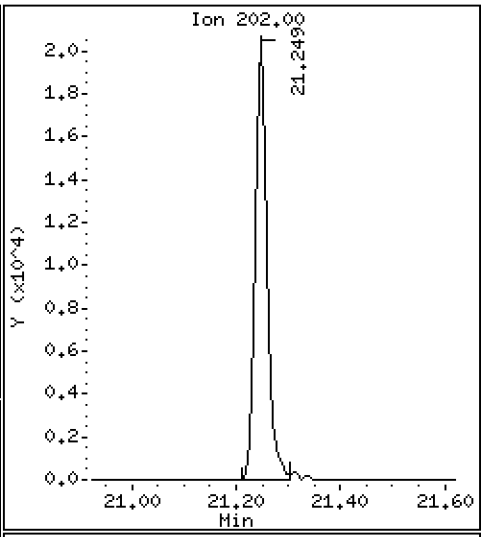
Column phase: ZB-5msi

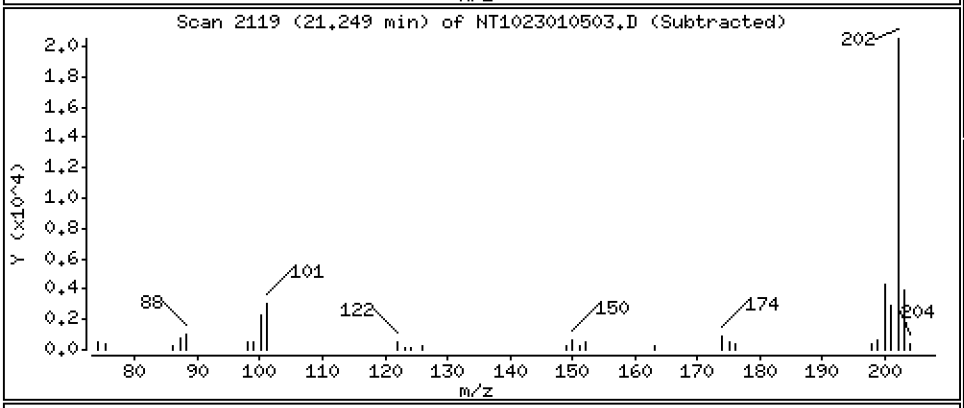
Column diameter: 0.25

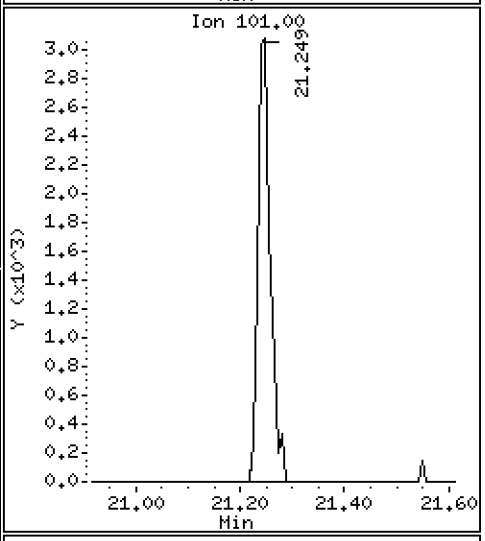
64 Fluoranthene

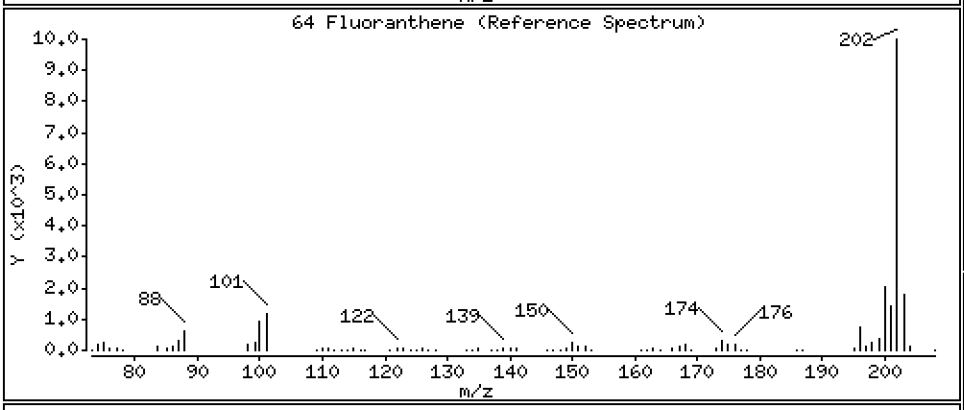
Concentration: 0.4721 ug/mL

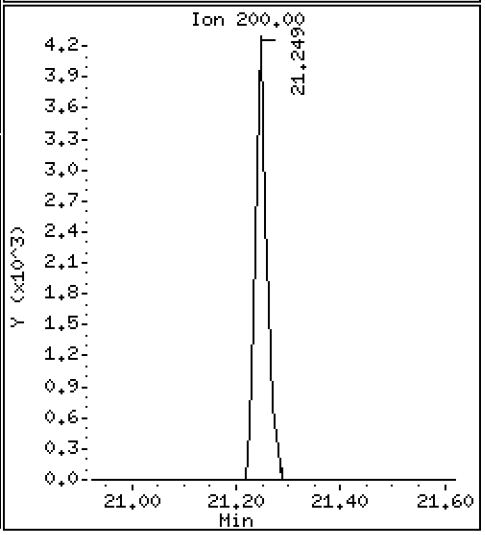


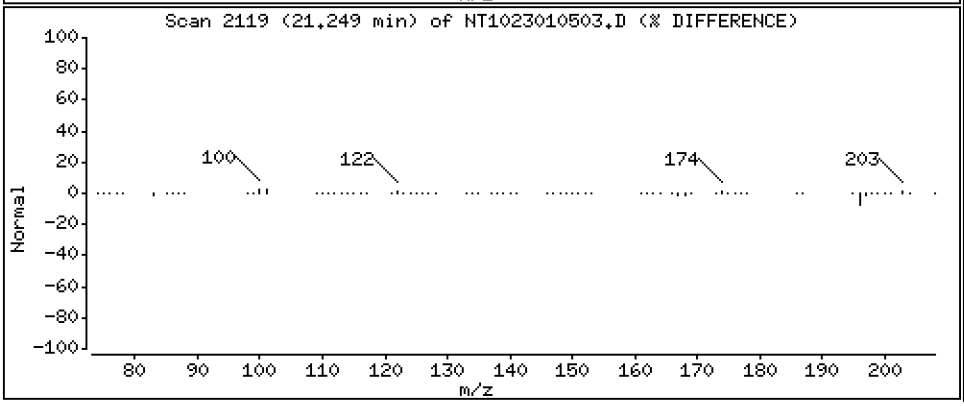












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

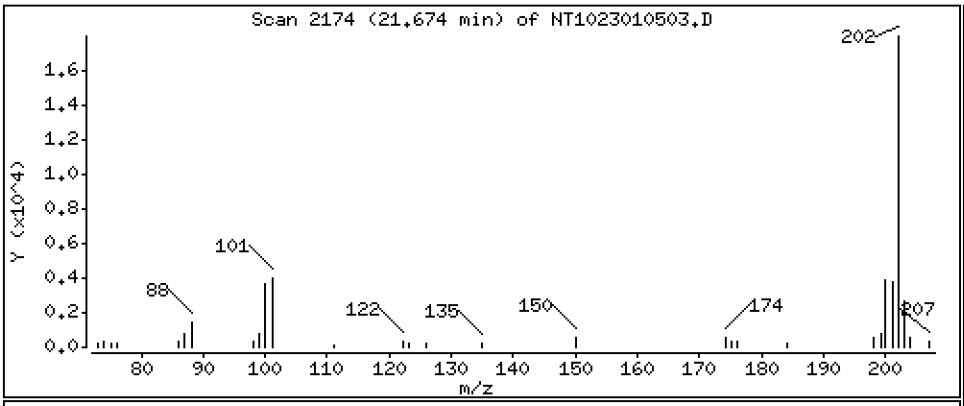
Operator: VTS

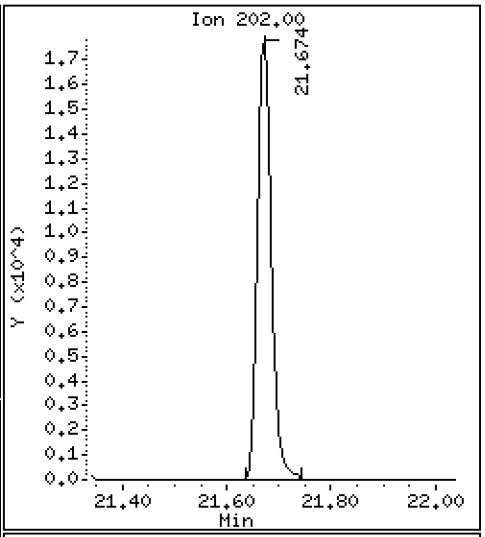
Column phase: ZB-5msi

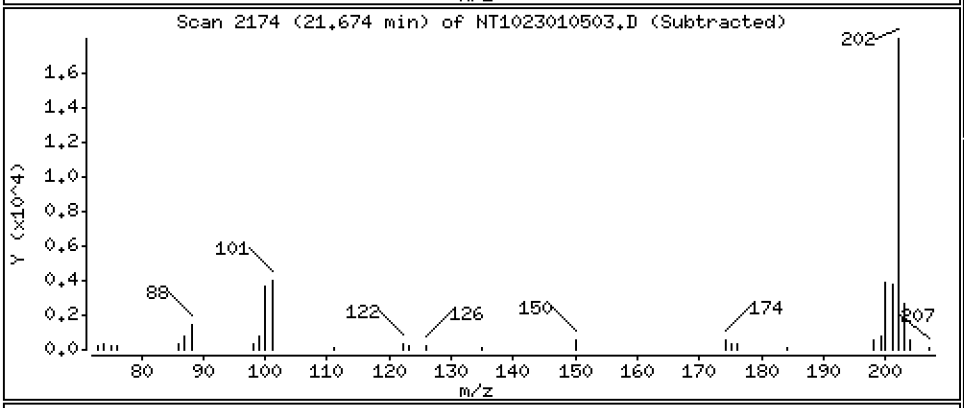
Column diameter: 0.25

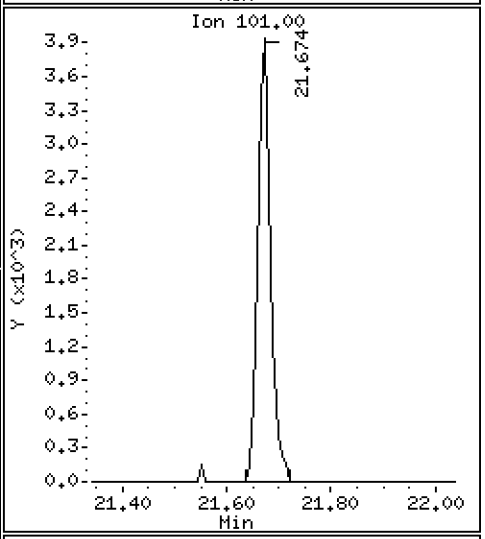
65 Pyrene

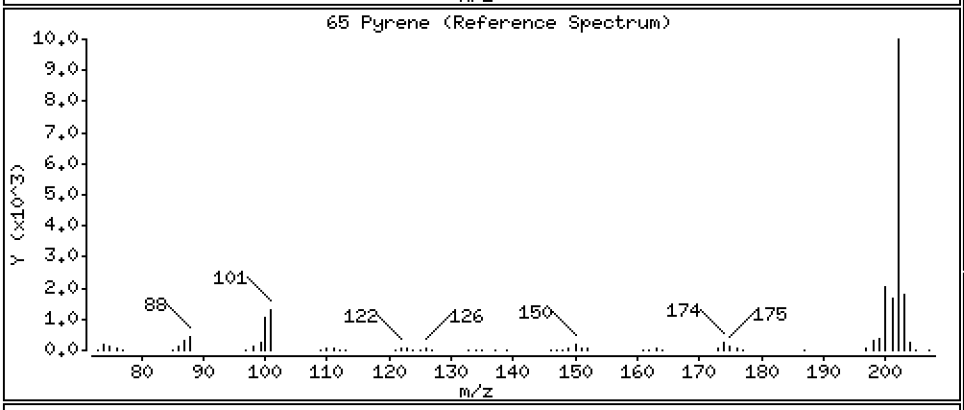
Concentration: 0.4748 ug/mL

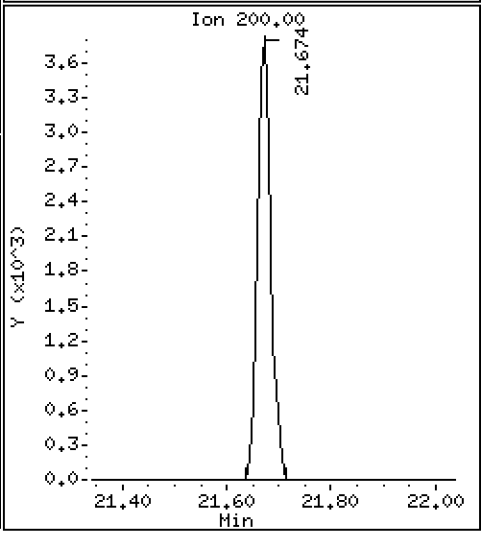


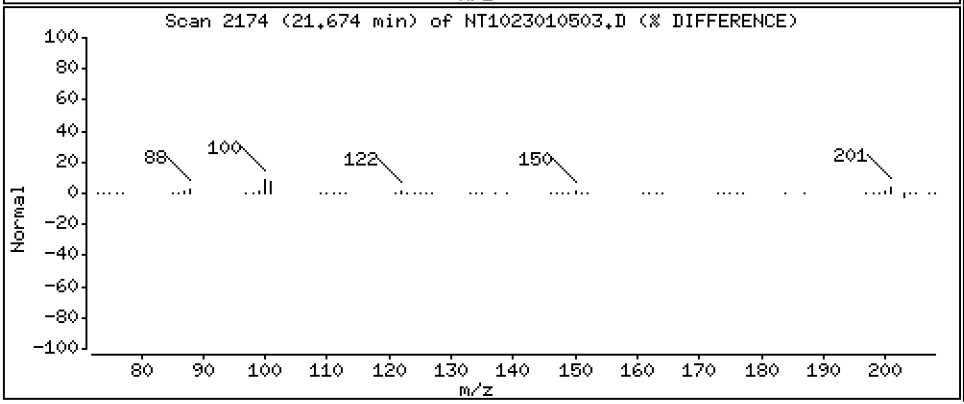












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

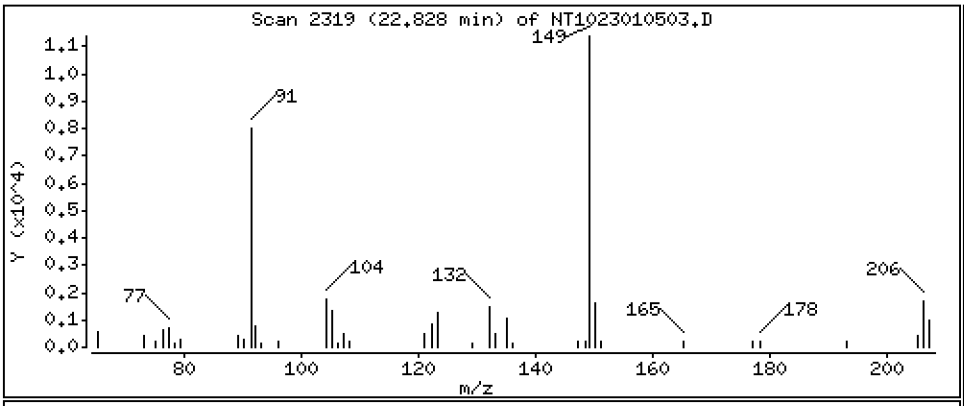
Operator: VTS

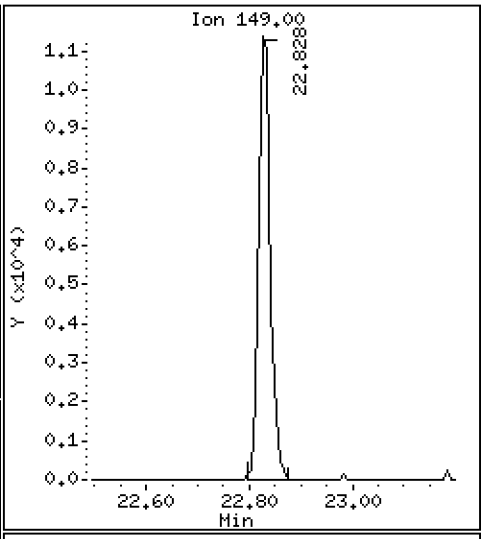
Column phase: ZB-5msi

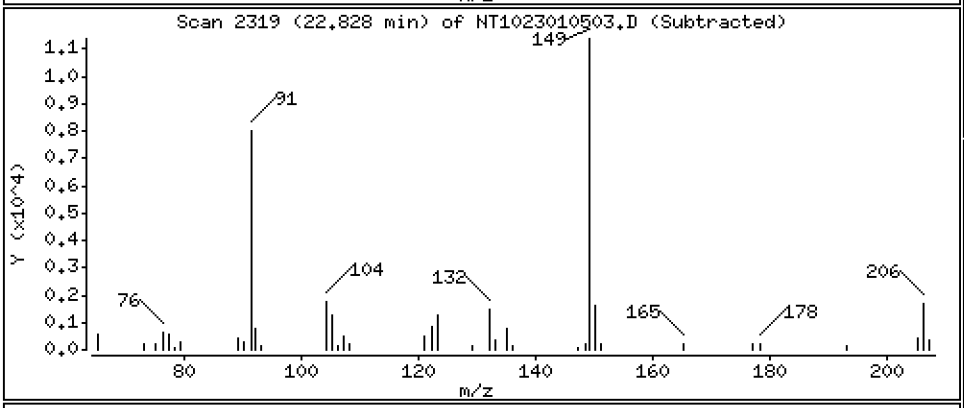
Column diameter: 0.25

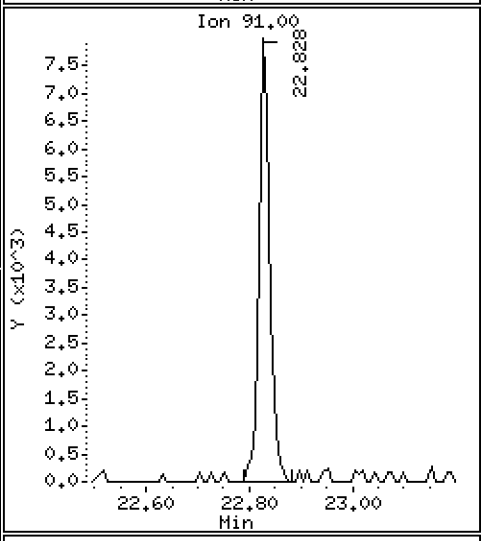
67 Butylbenzylphthalate

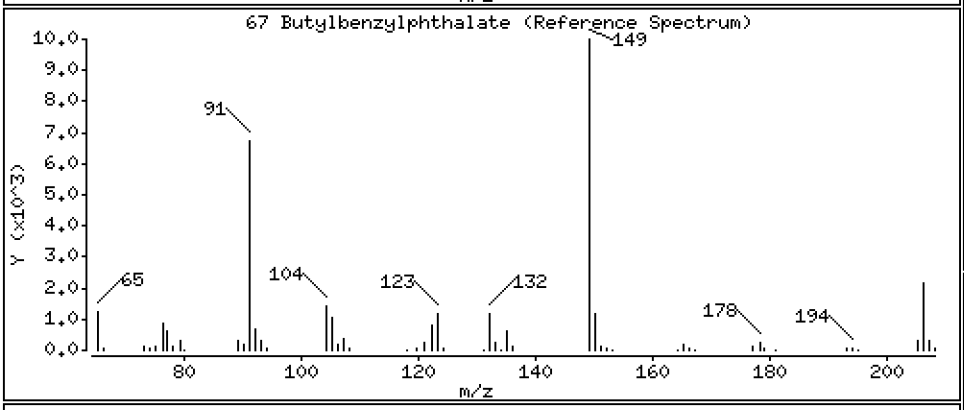
Concentration: 0.4679 ug/mL

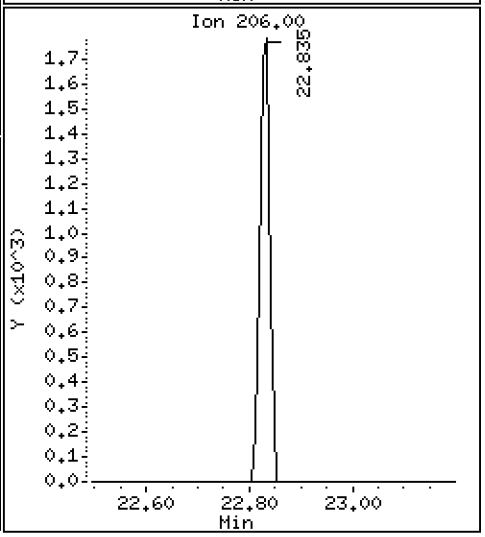


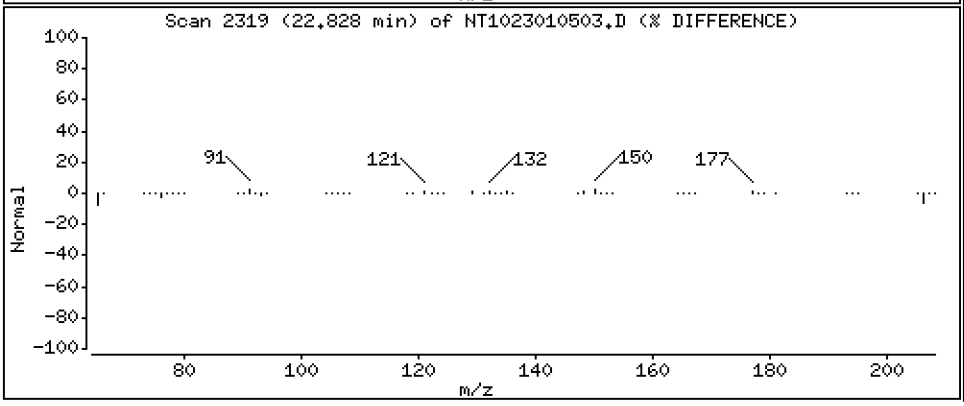












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

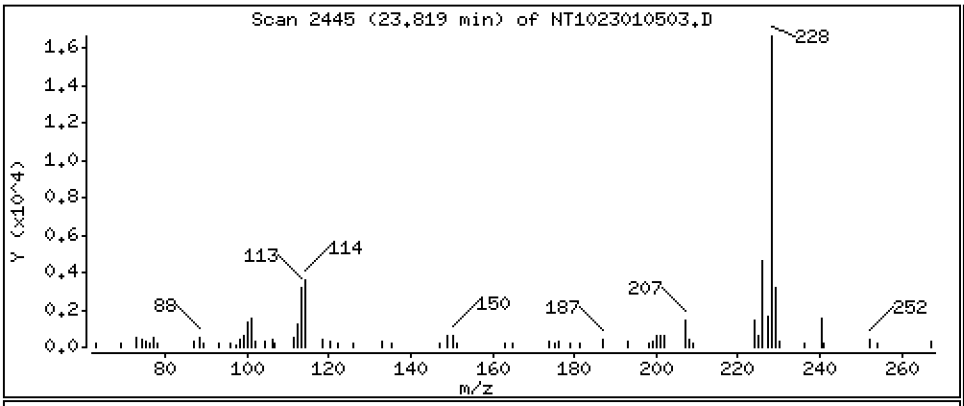
Operator: VTS

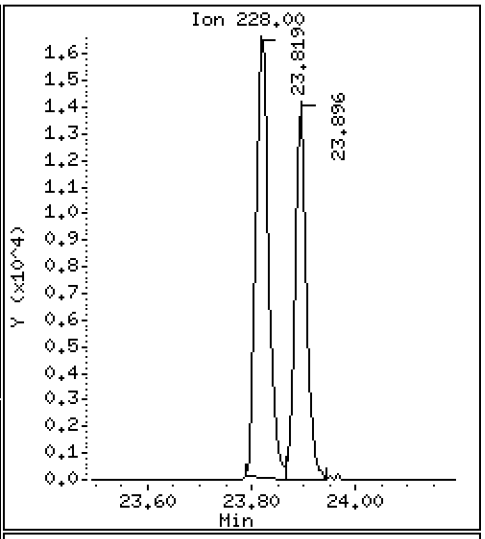
Column phase: ZB-5msi

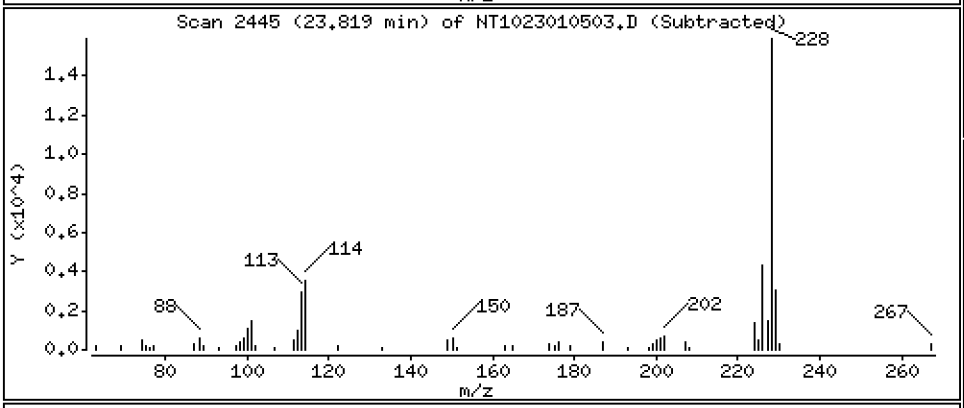
Column diameter: 0.25

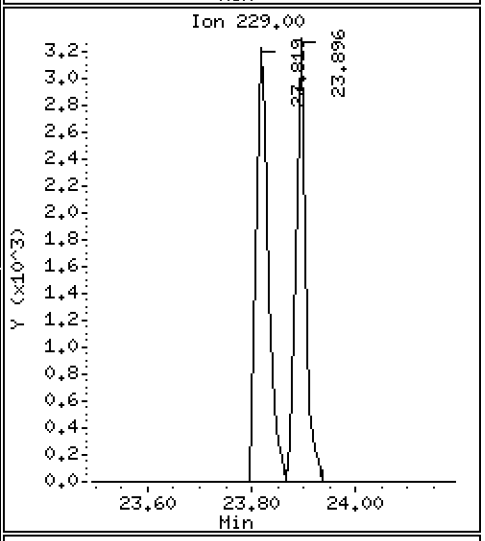
68 Benzo(a)anthracene

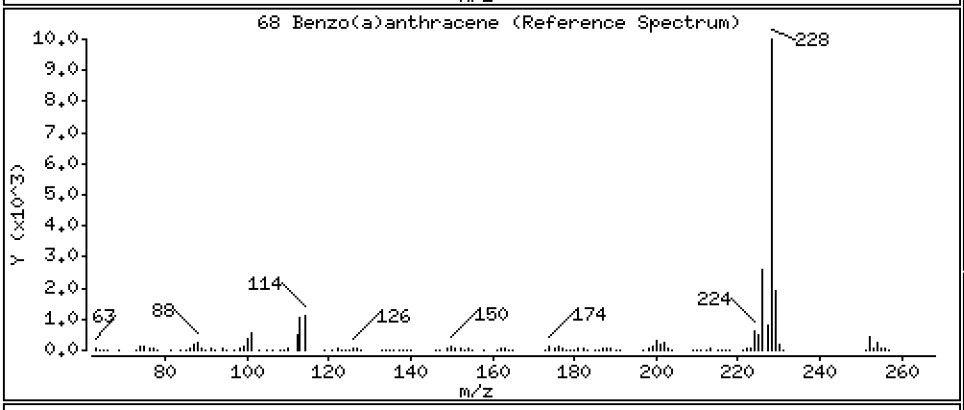
Concentration: 0.5286 ug/mL

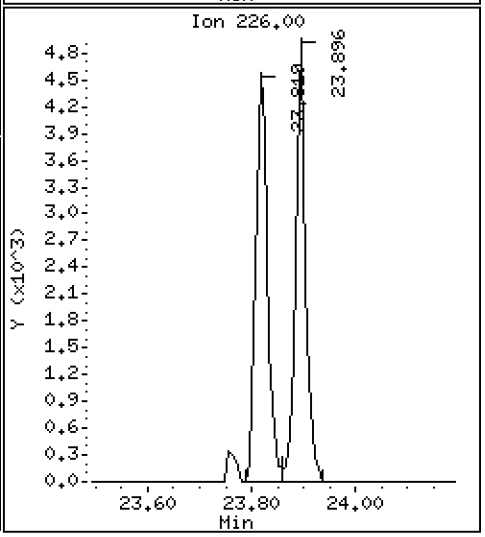


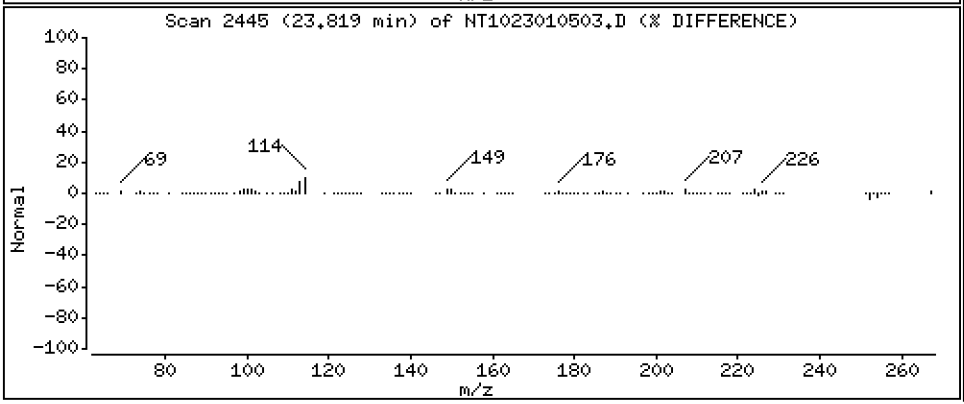












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

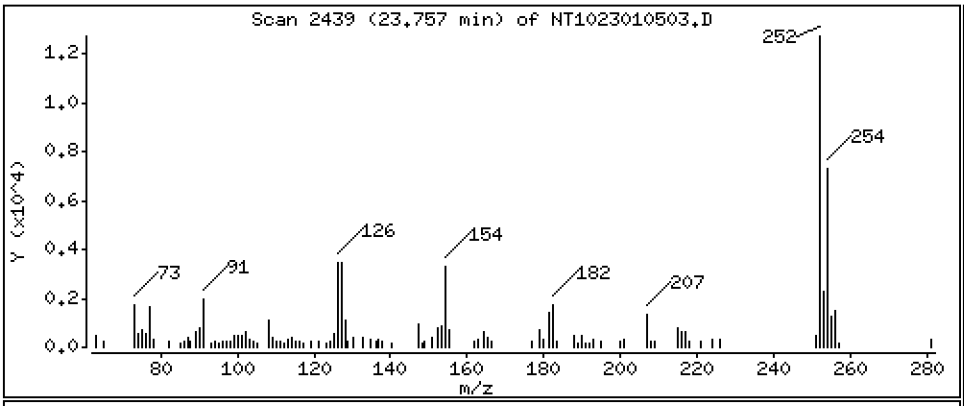
Operator: VTS

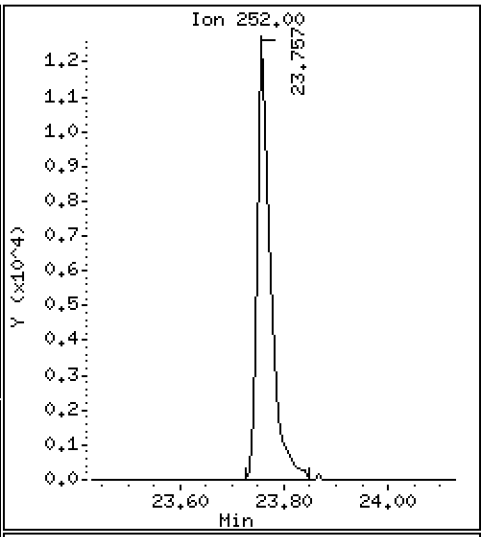
Column phase: ZB-5msi

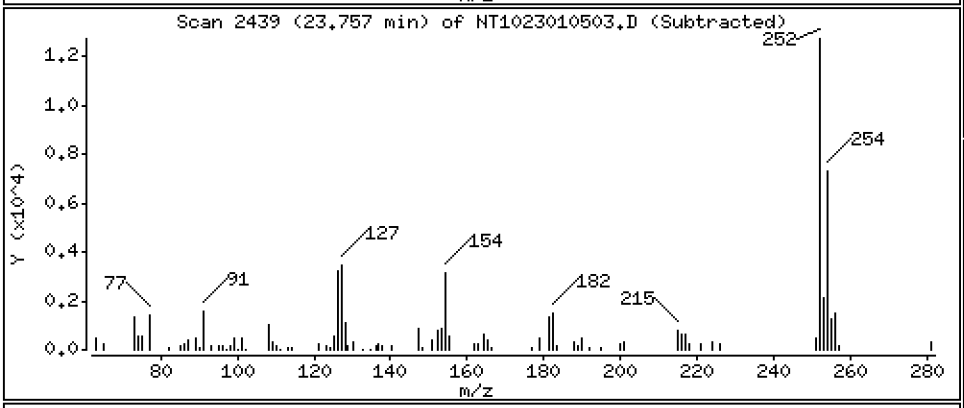
Column diameter: 0.25

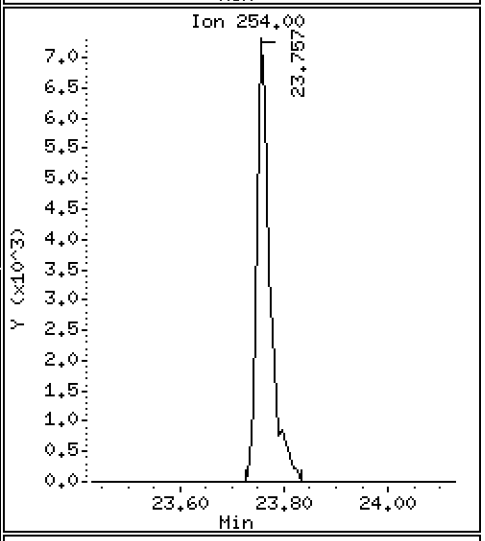
70 3,3'-Dichlorobenzidine

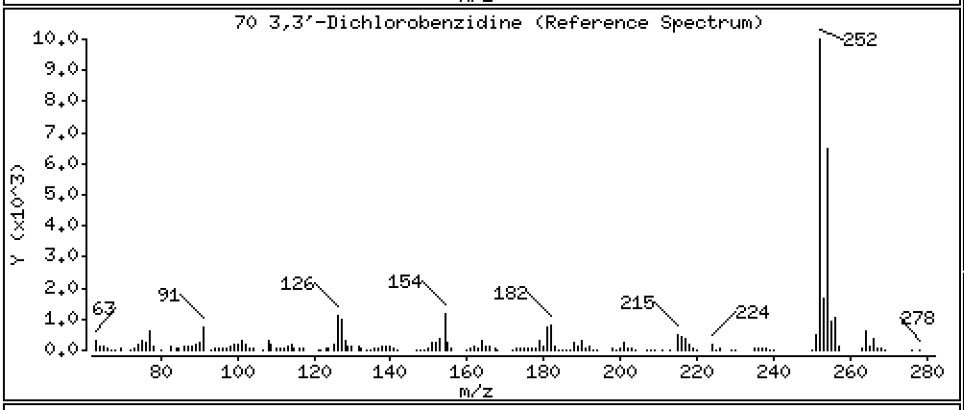
Concentration: 1.364 ug/mL

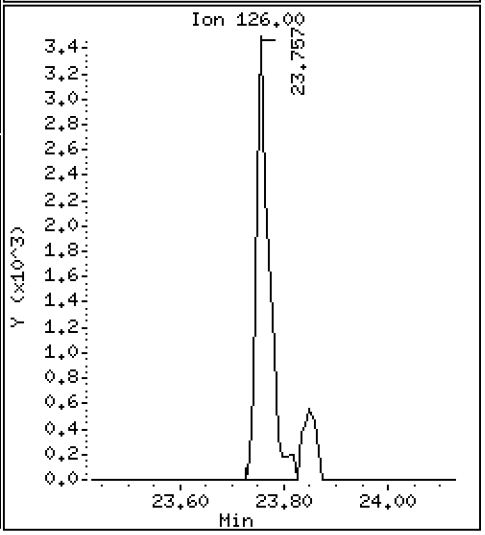


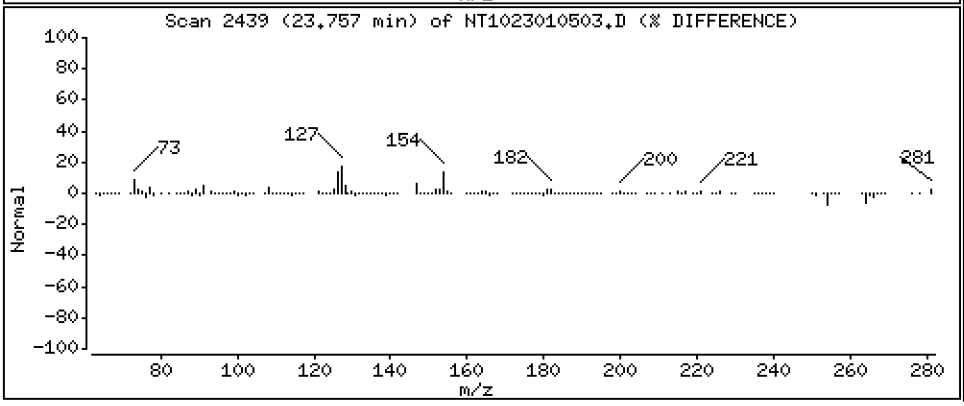












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

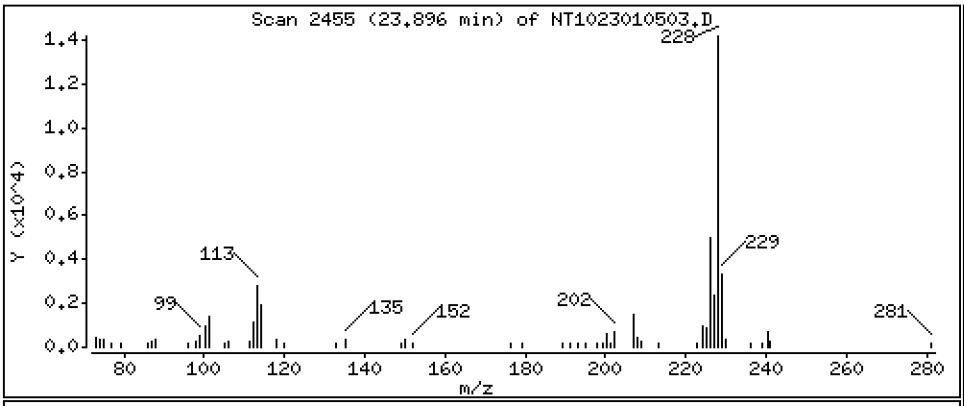
Operator: VTS

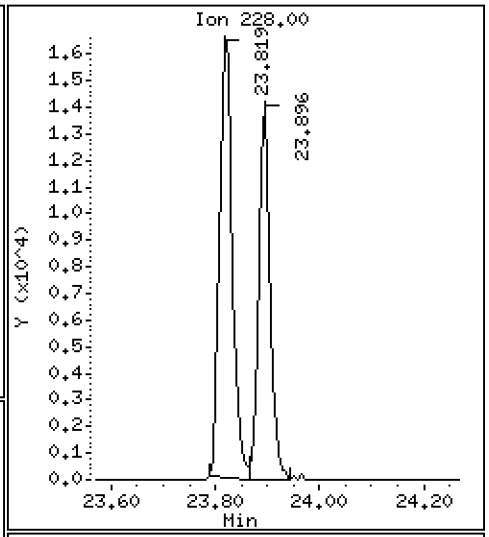
Column phase: ZB-5msi

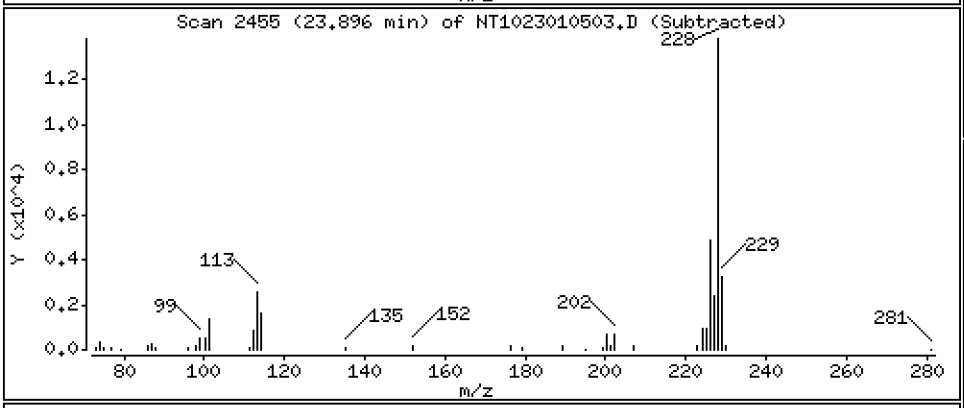
Column diameter: 0.25

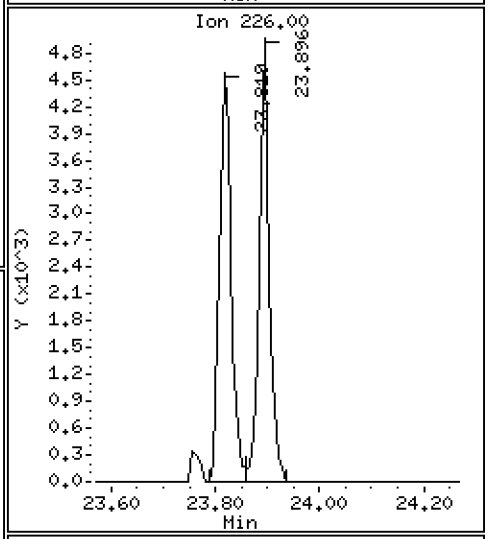
71 Chrysene

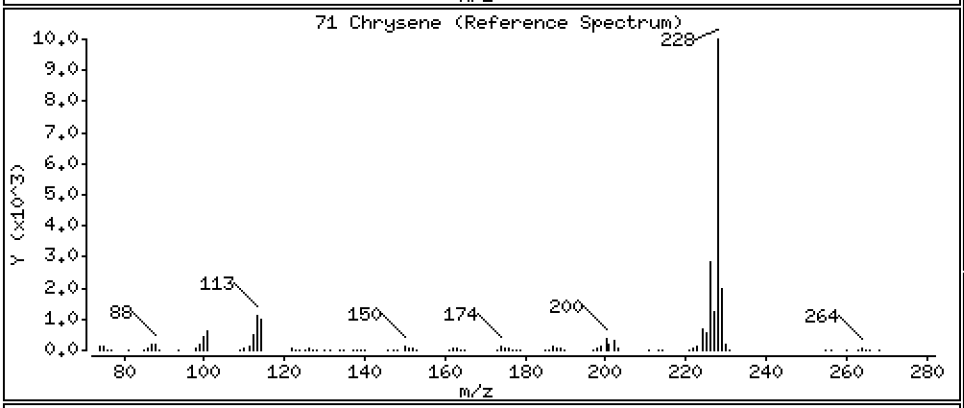
Concentration: 0.4883 ug/mL

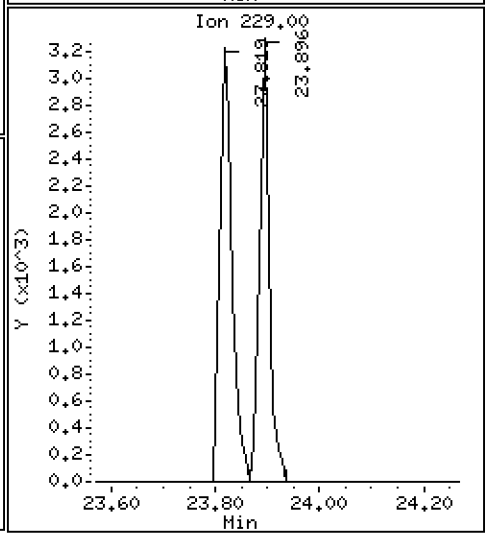


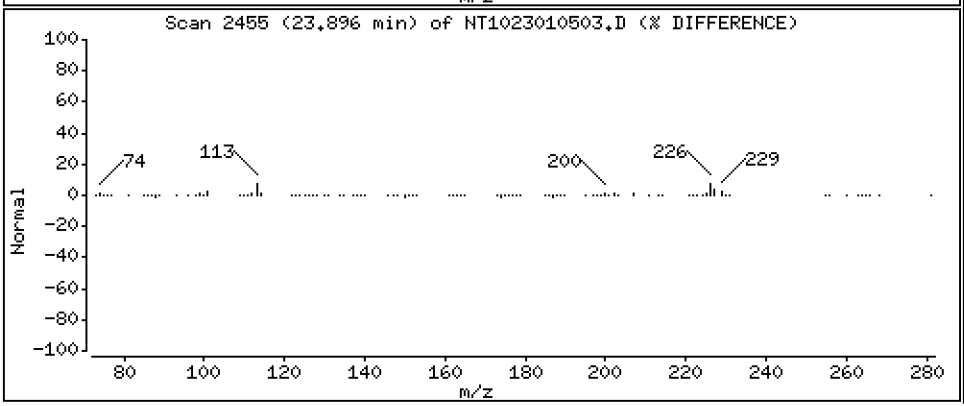












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

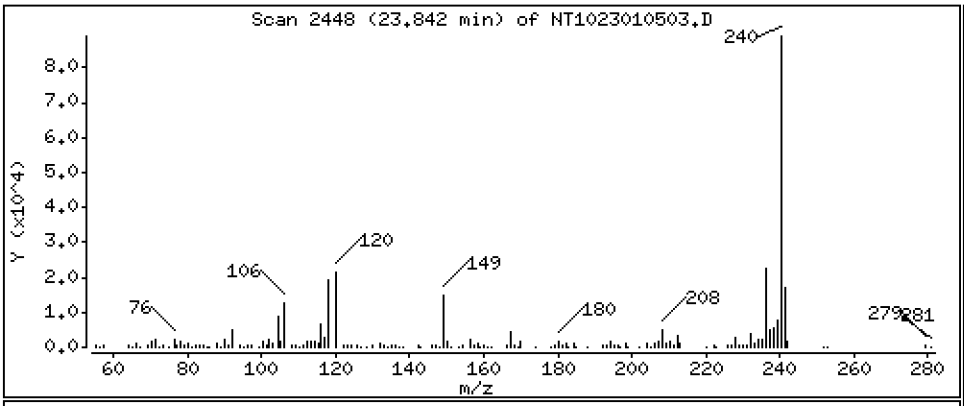
Operator: VTS

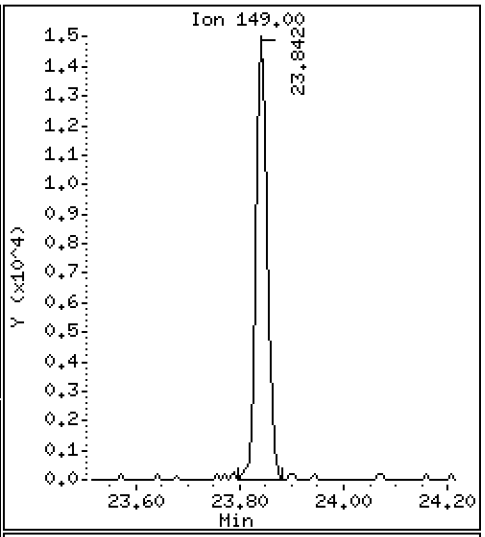
Column phase: ZB-5msi

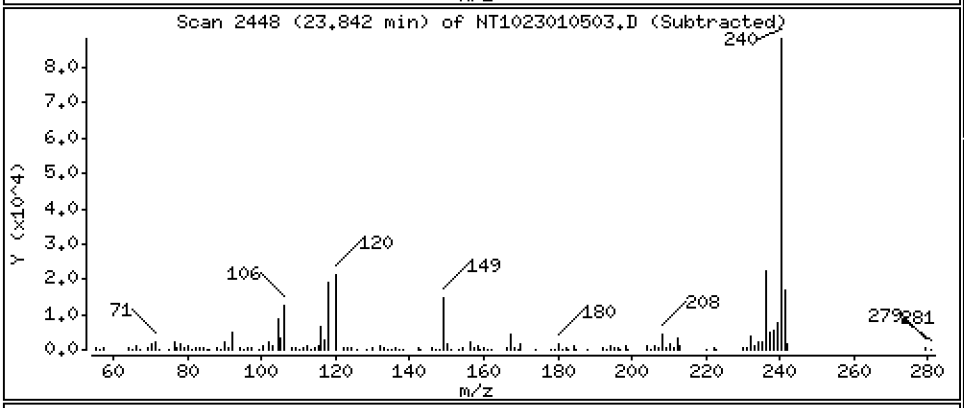
Column diameter: 0.25

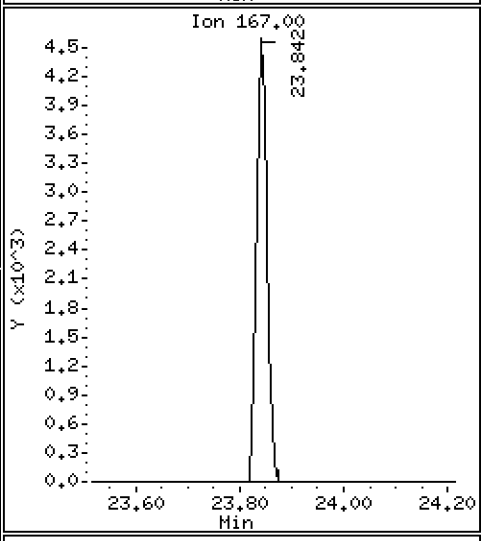
72 bis(2-Ethylhexyl)phthalate

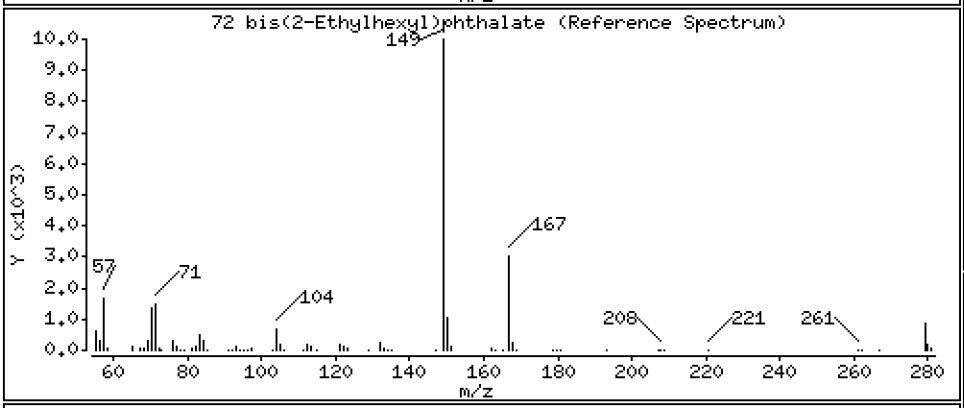
Concentration: 0.5030 ug/mL

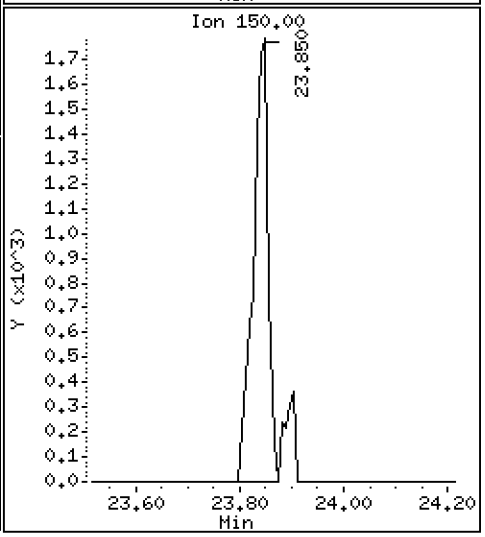


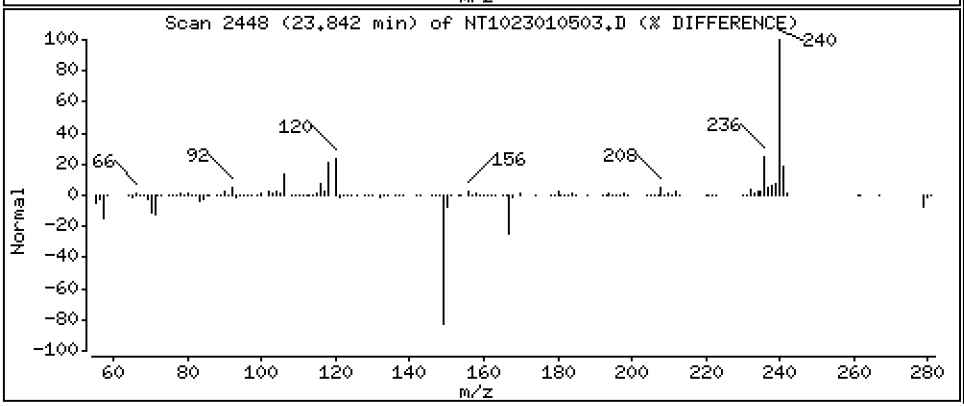












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

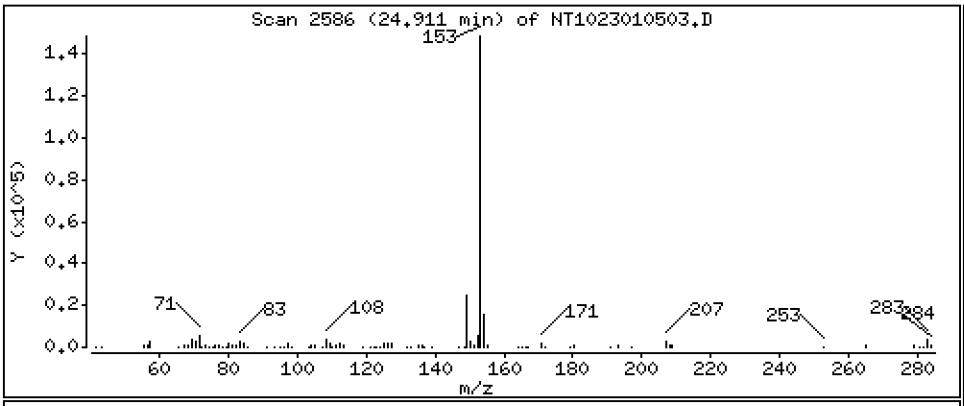
Operator: VTS

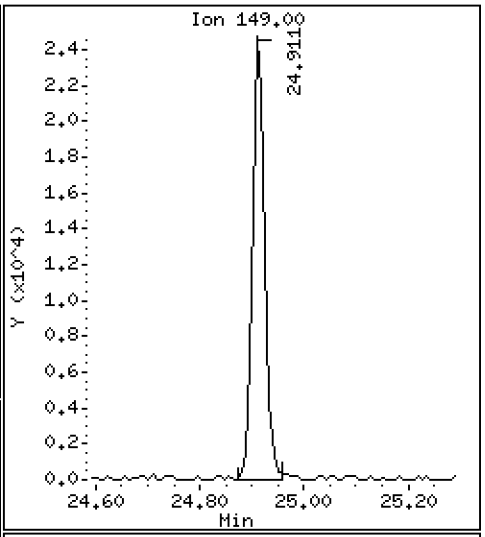
Column phase: ZB-5msi

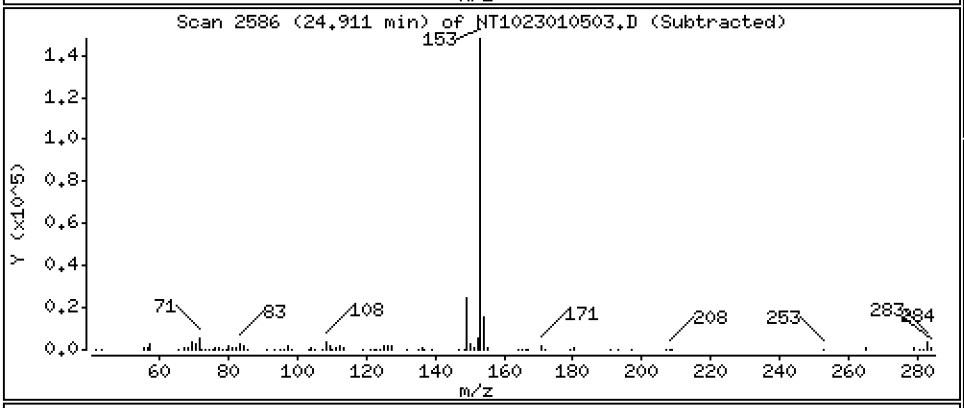
Column diameter: 0.25

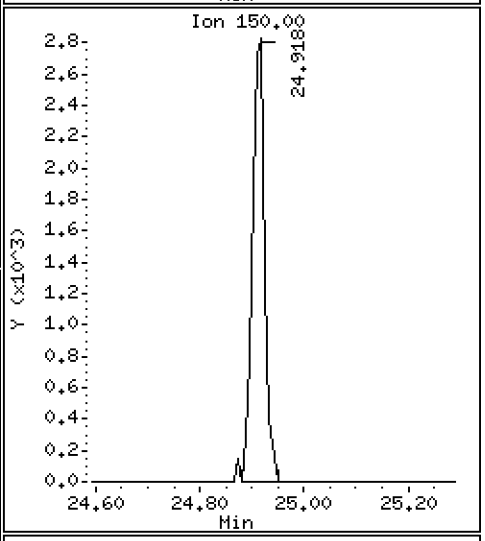
73 Di-n-octylphthalate

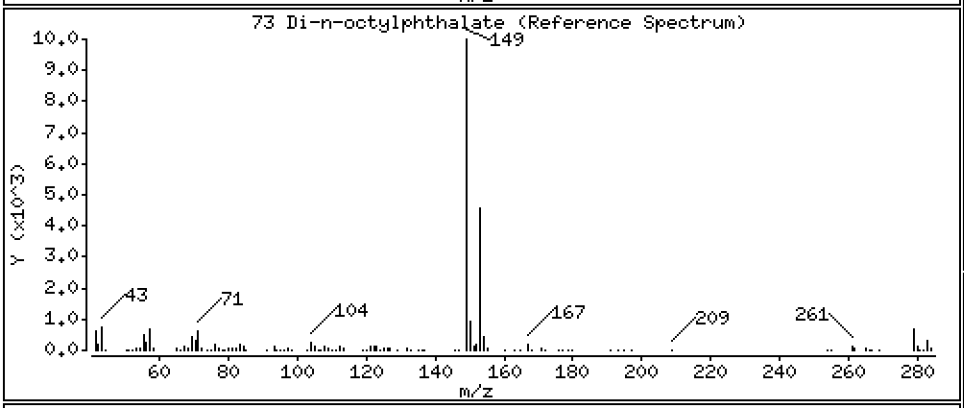
Concentration: 0.4960 ug/mL

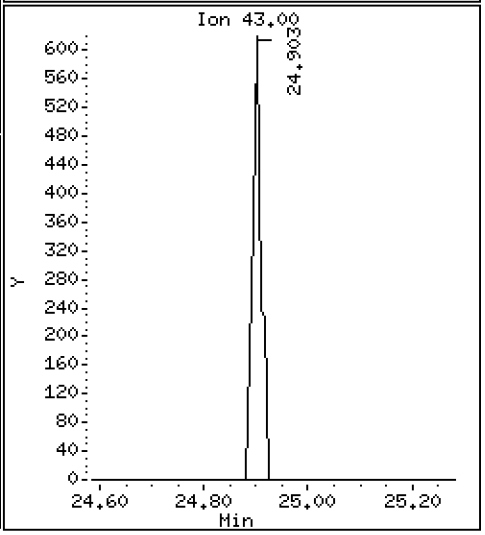


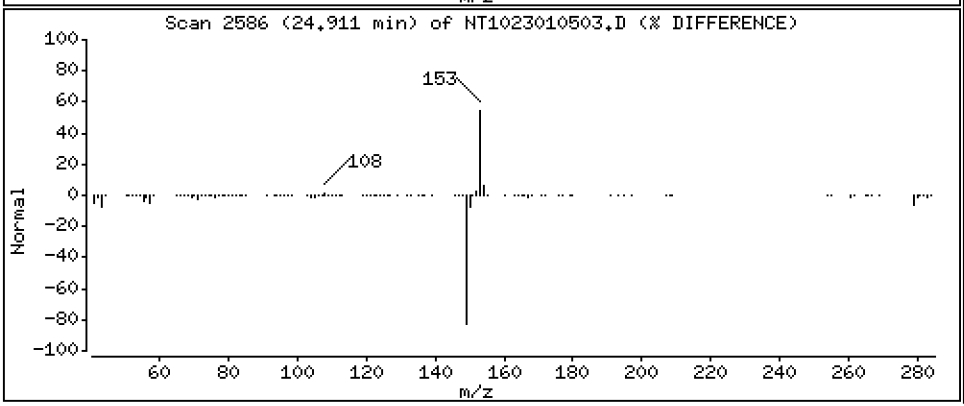












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

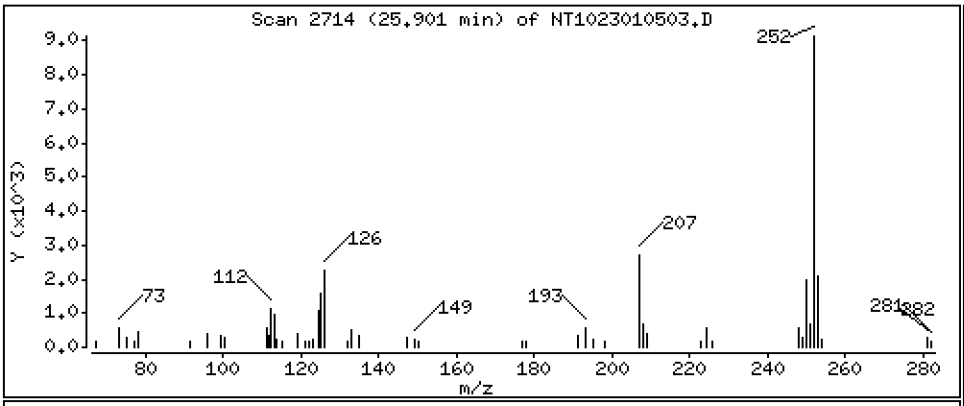
Operator: VTS

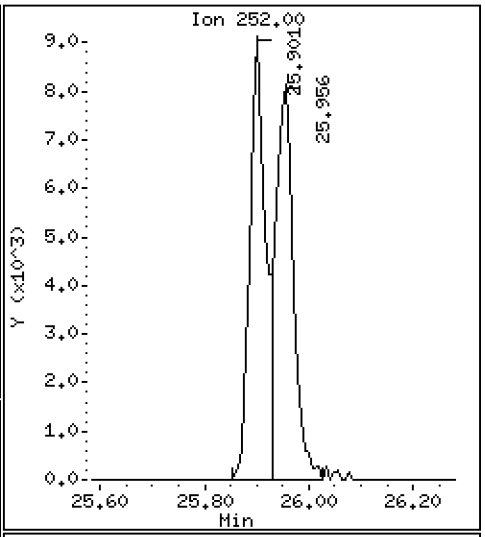
Column phase: ZB-5msi

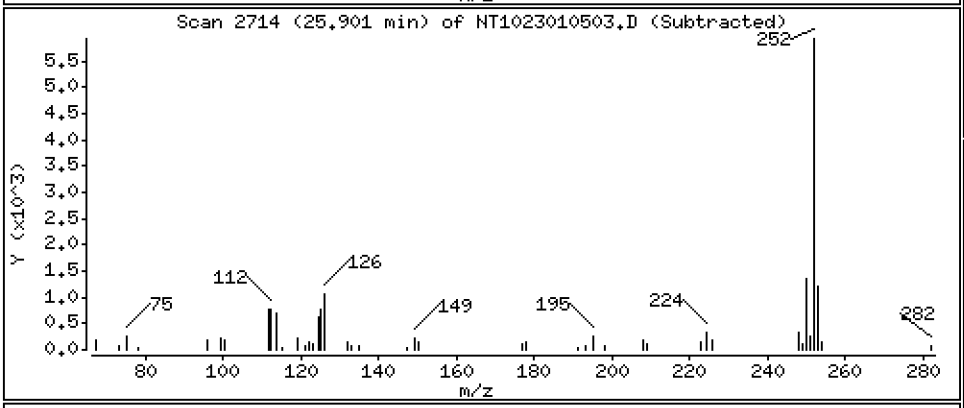
Column diameter: 0.25

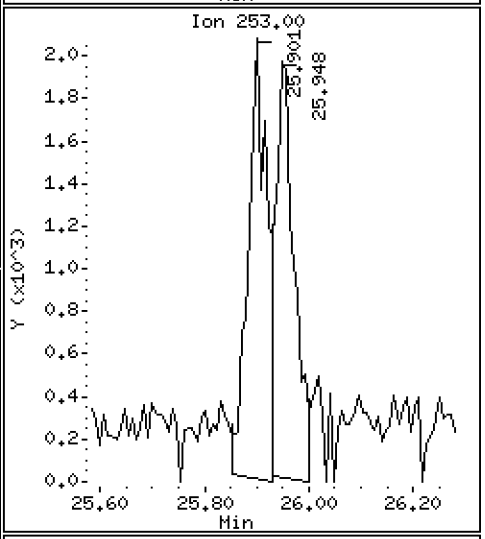
74 Benzo(b)fluoranthene

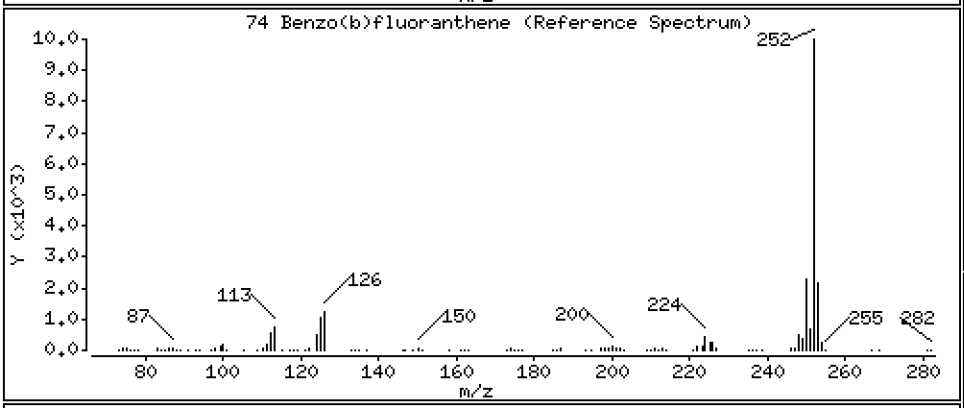
Concentration: 0.5077 ug/mL

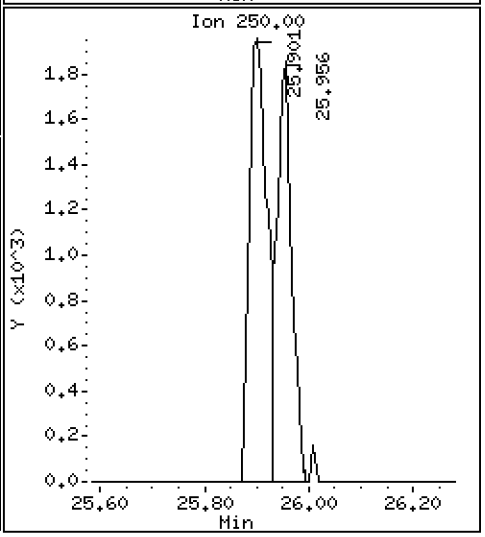


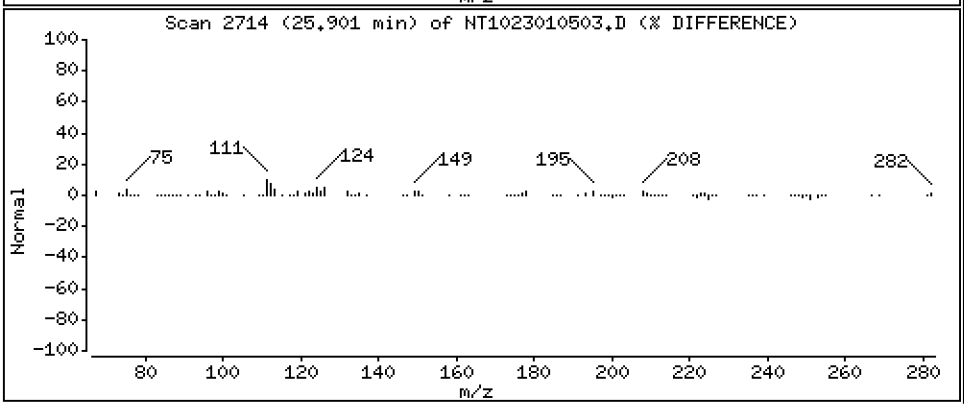












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

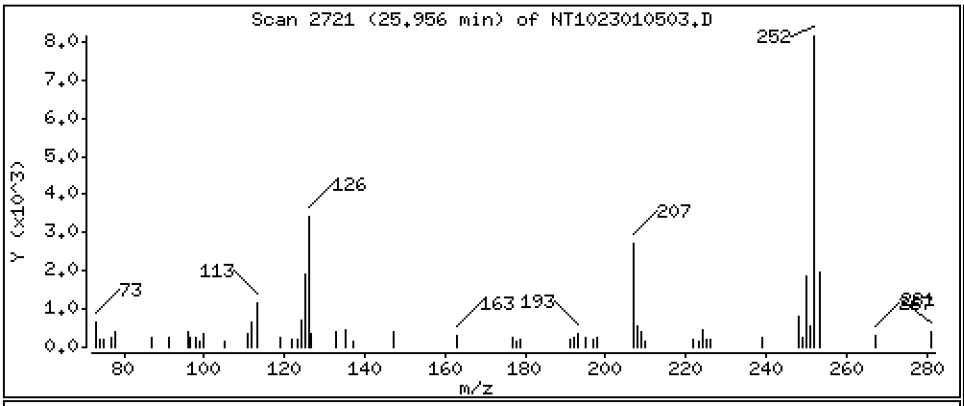
Operator: VTS

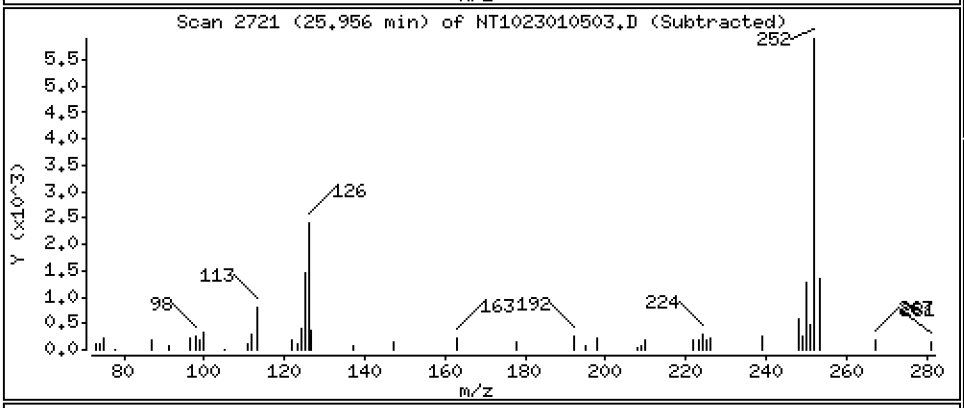
Column phase: ZB-5msi

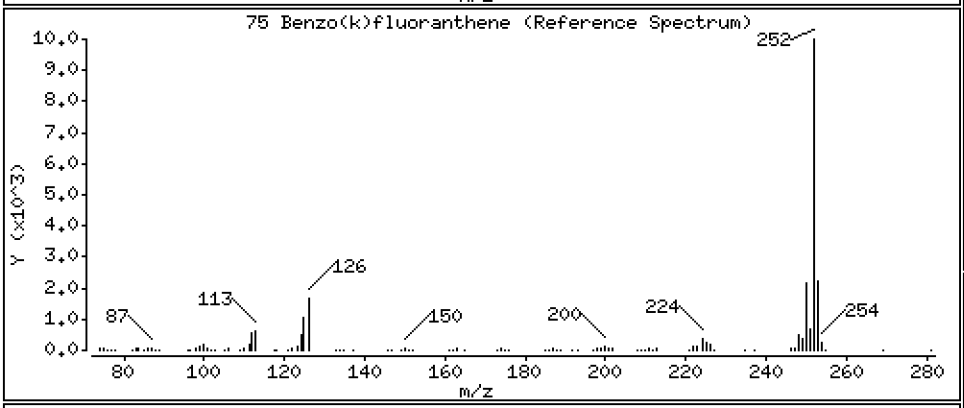
Column diameter: 0.25

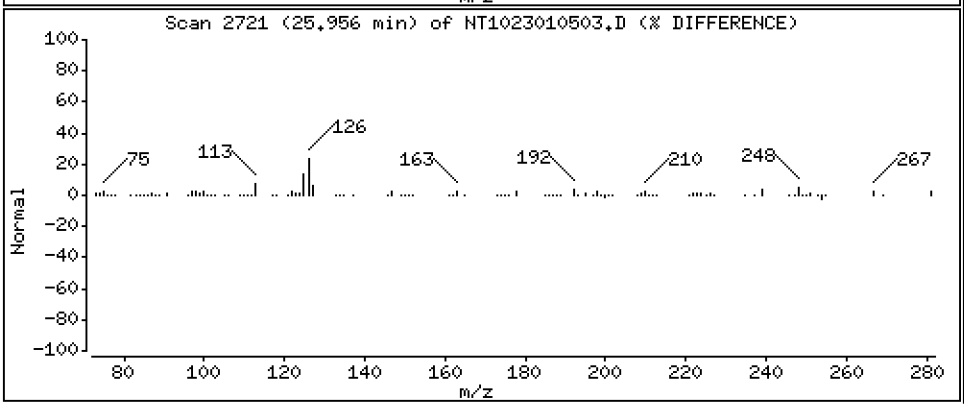
75 Benzo(k)fluoranthene

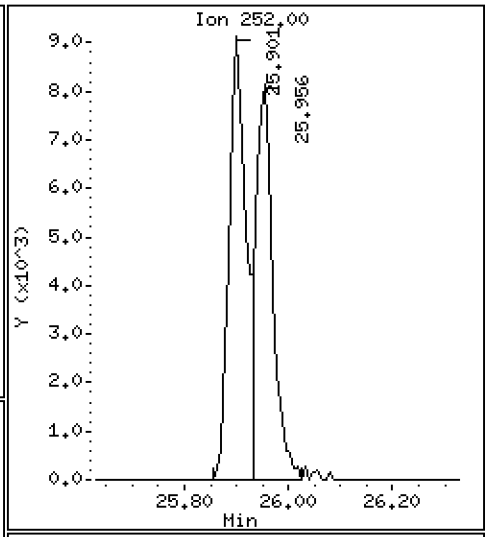
Concentration: 0.4826 ug/mL

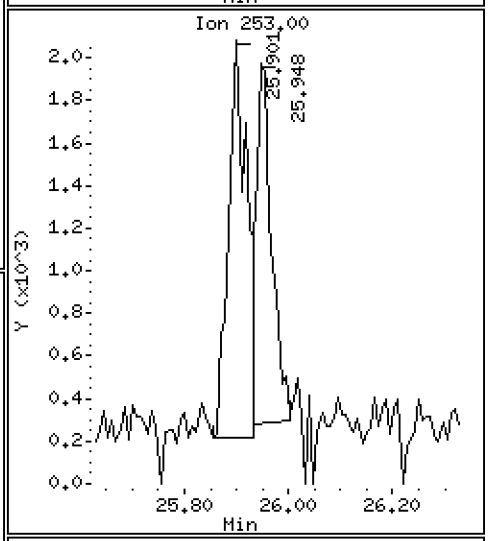


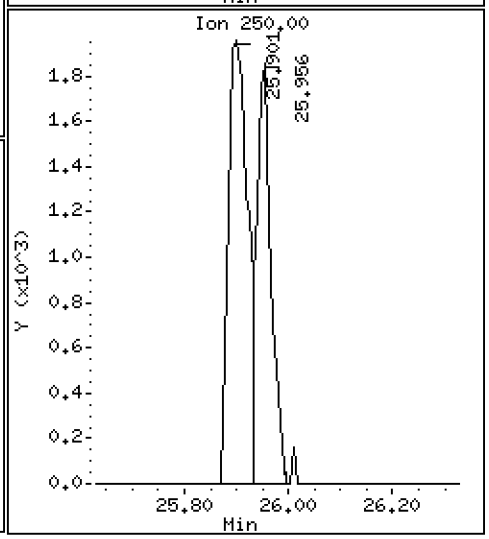












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

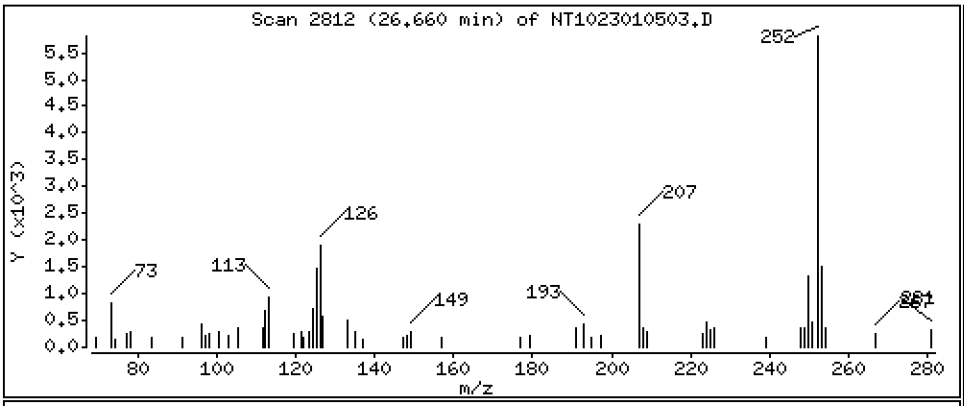
Operator: VTS

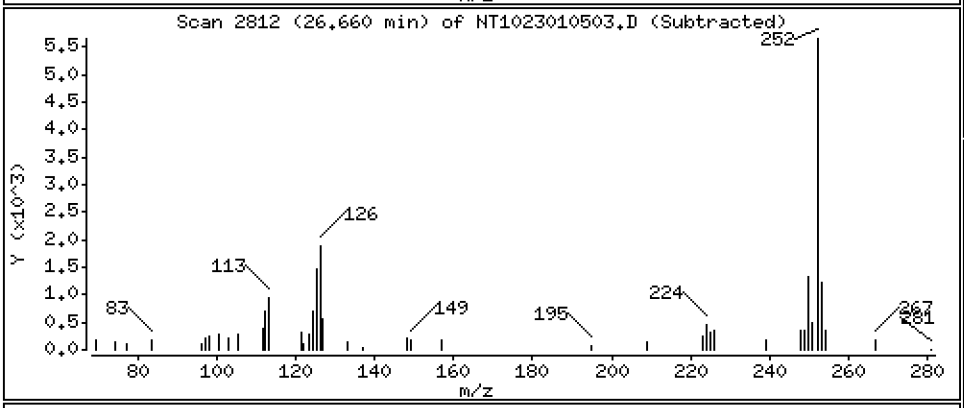
Column phase: ZB-5msi

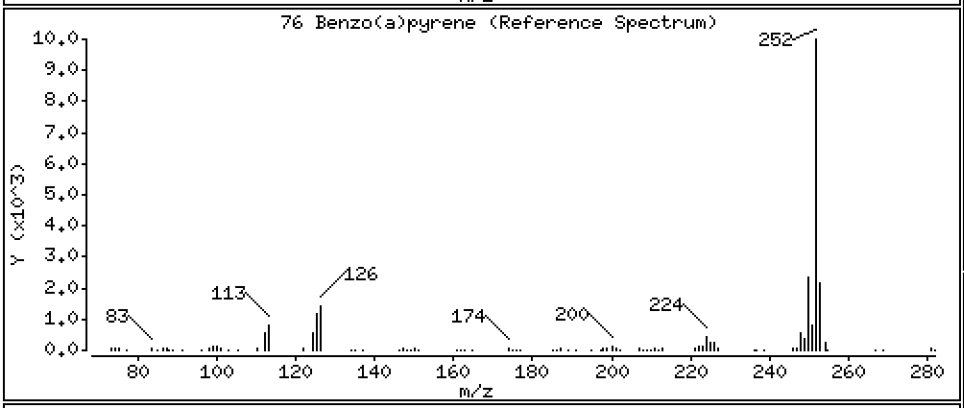
Column diameter: 0.25

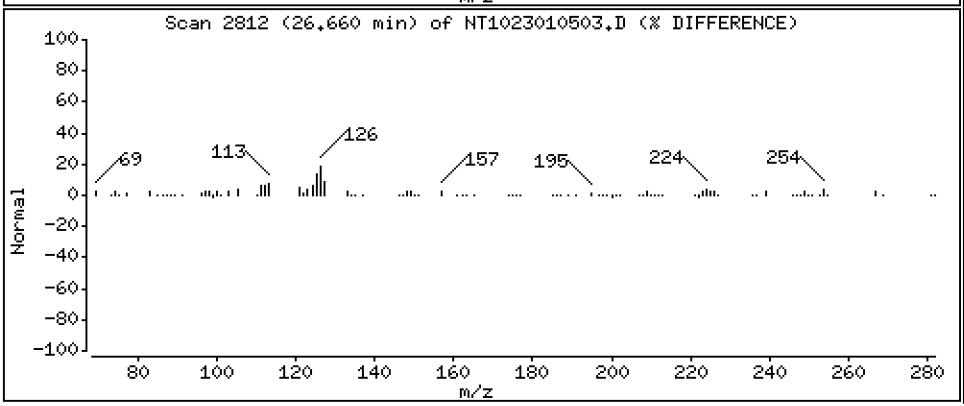
76 Benzo(a)pyrene

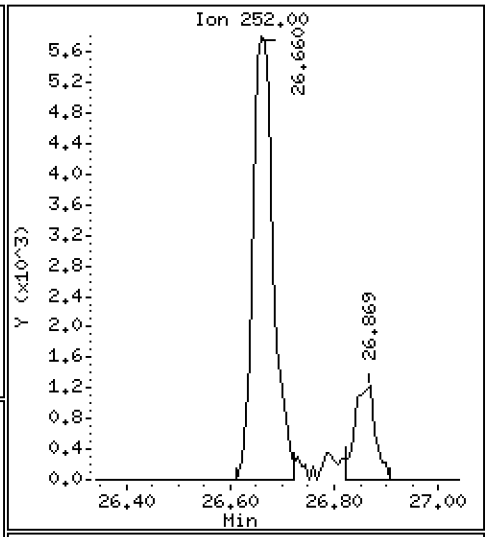
Concentration: 0.4619 ug/mL

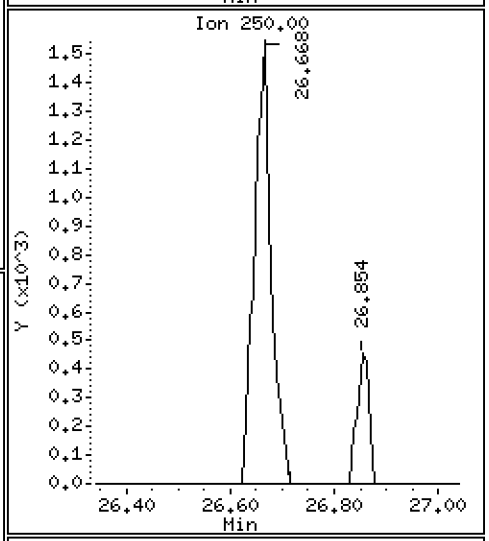


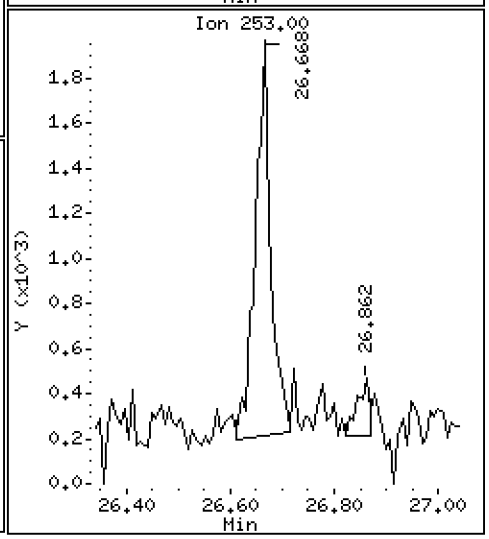












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

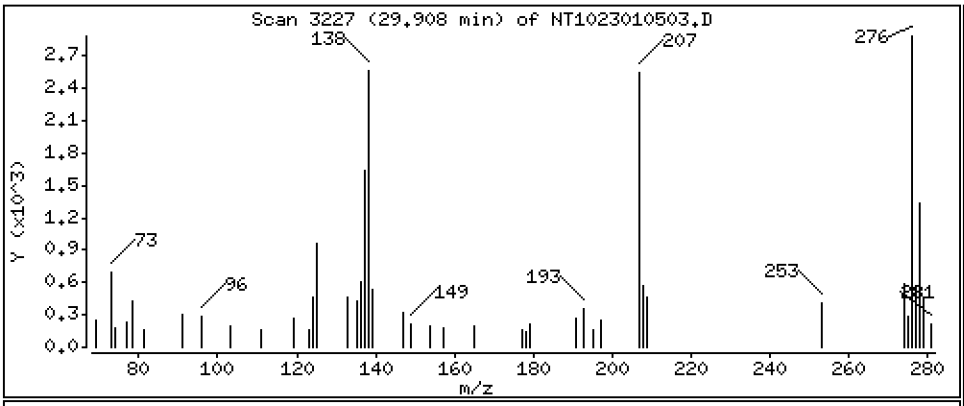
Operator: VTS

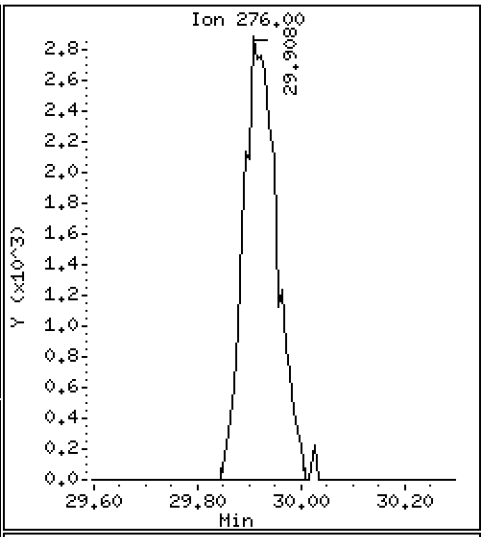
Column phase: ZB-5msi

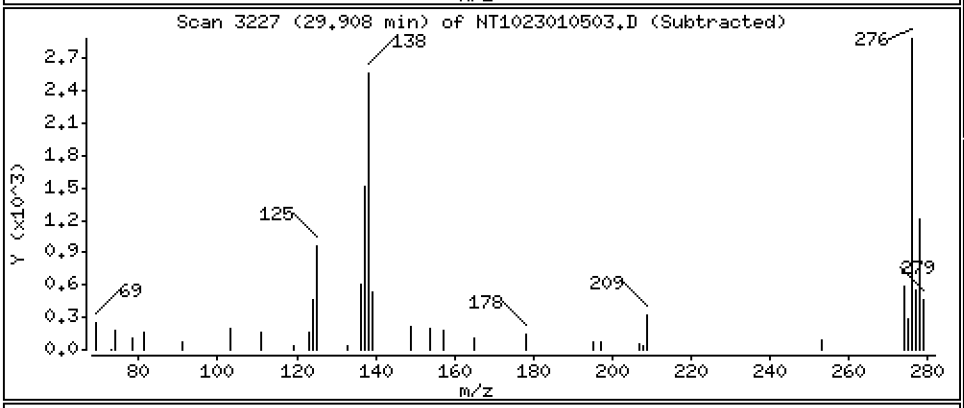
Column diameter: 0.25

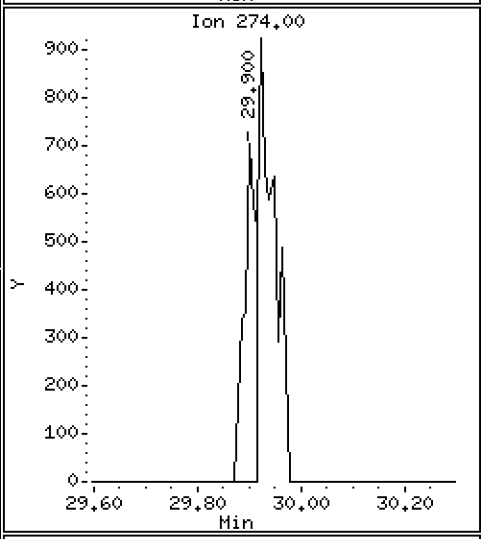
78 Indeno(1,2,3-cd)pyrene

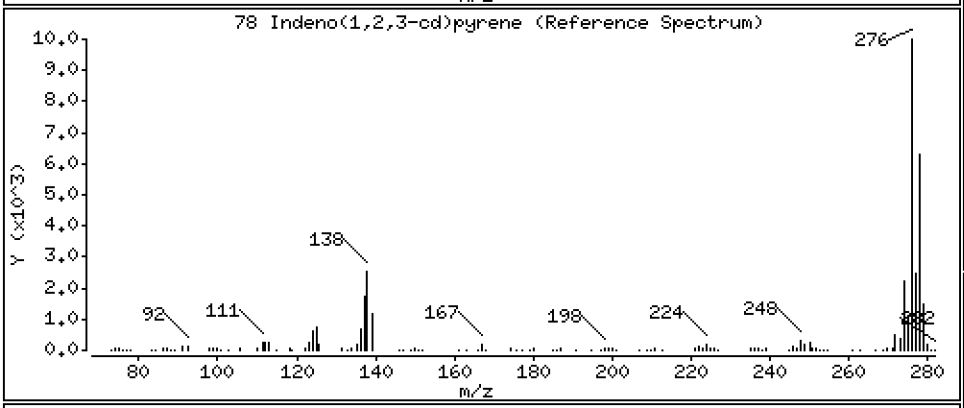
Concentration: 0.4255 ug/mL

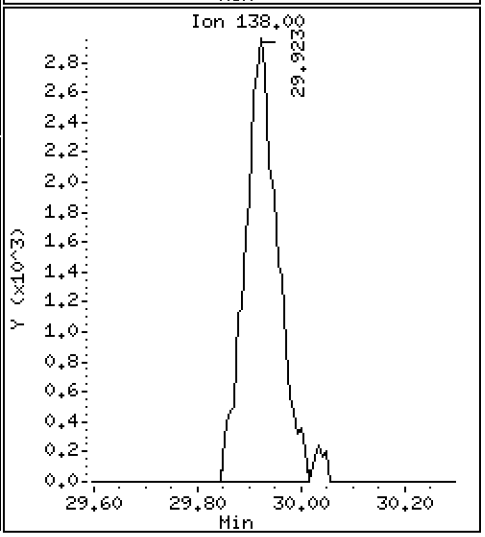


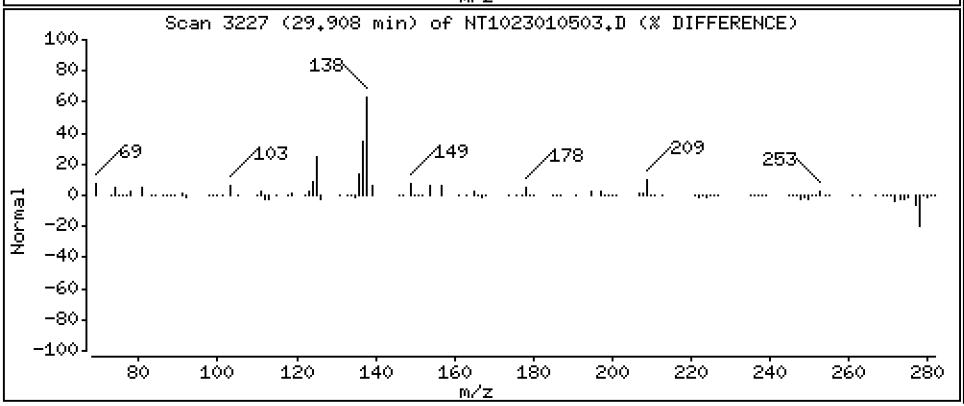












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

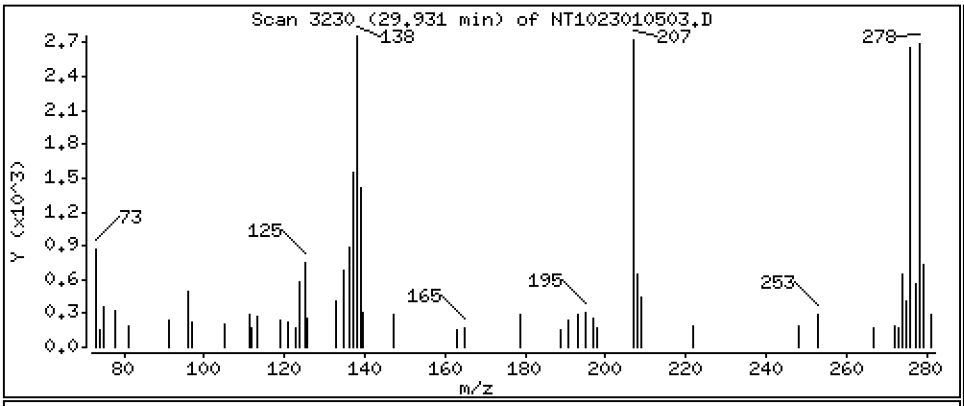
Operator: VTS

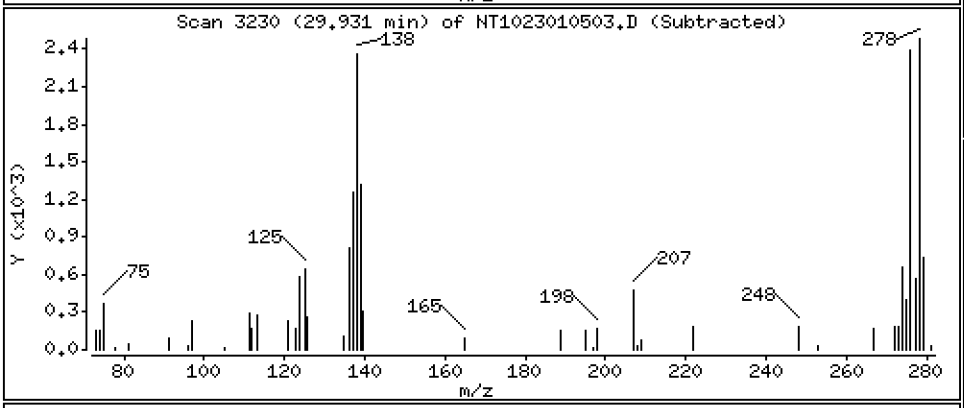
Column phase: ZB-5msi

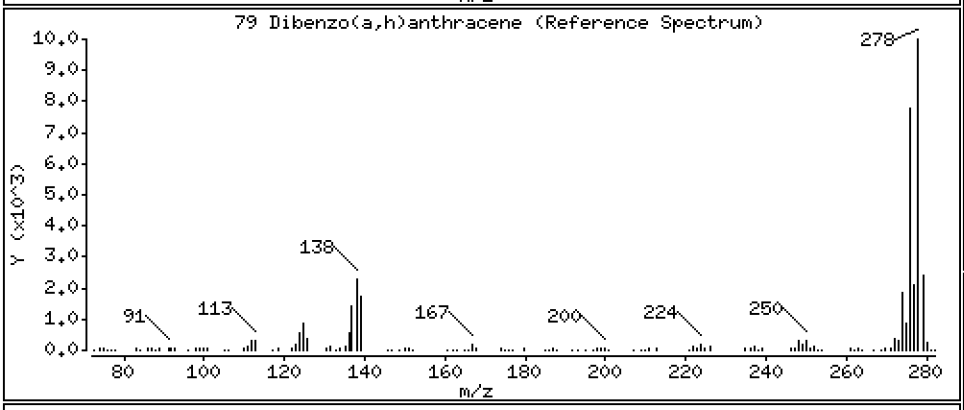
Column diameter: 0.25

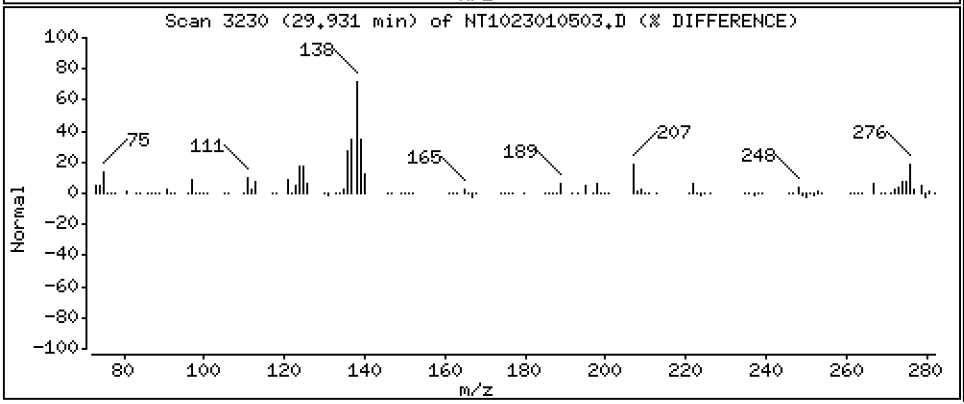
79 Dibenzo(a,h)anthracene

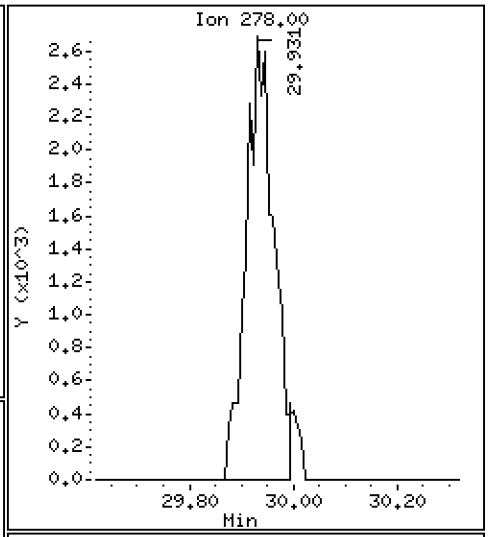
Concentration: 0.4147 ug/mL

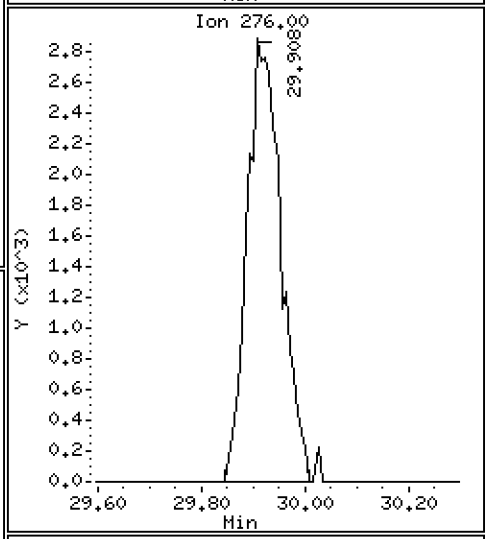


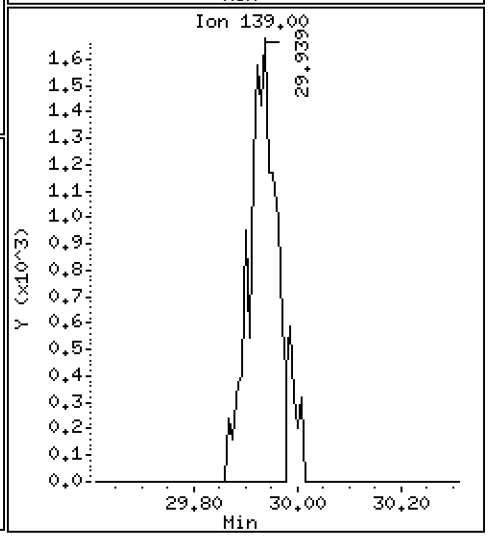












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

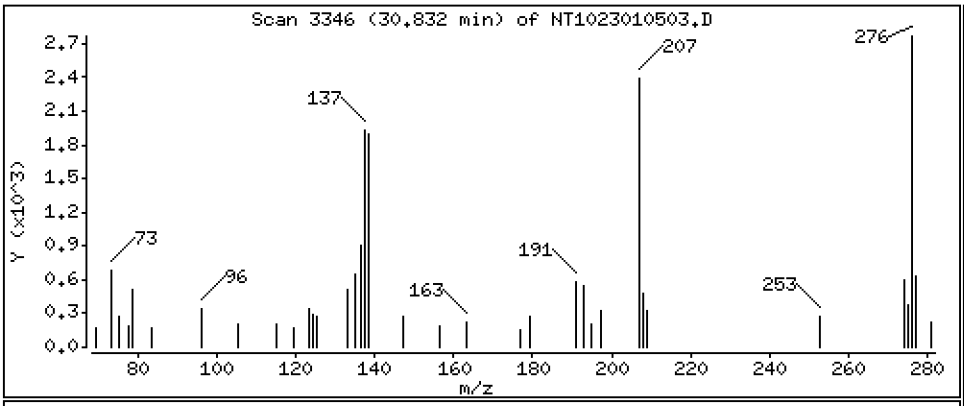
Operator: VTS

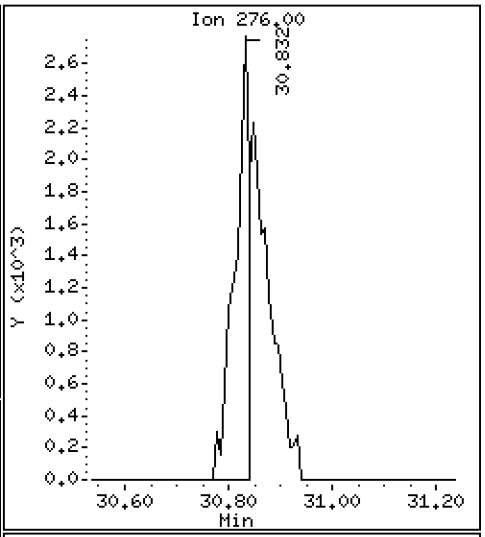
Column phase: ZB-5msi

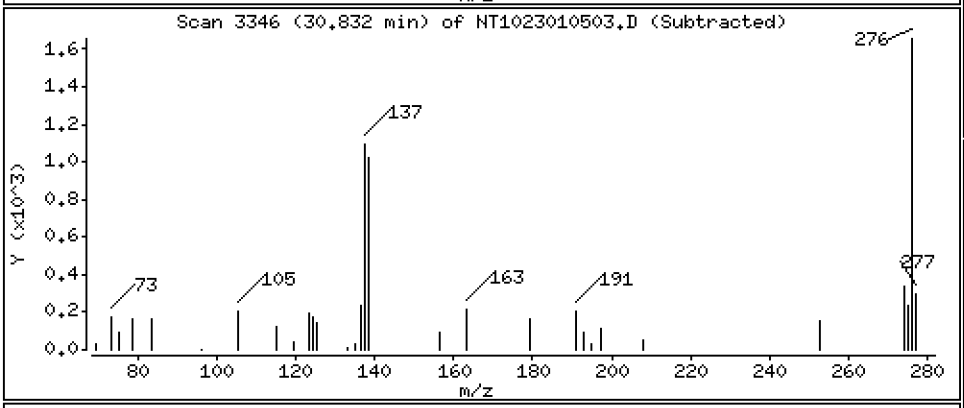
Column diameter: 0.25

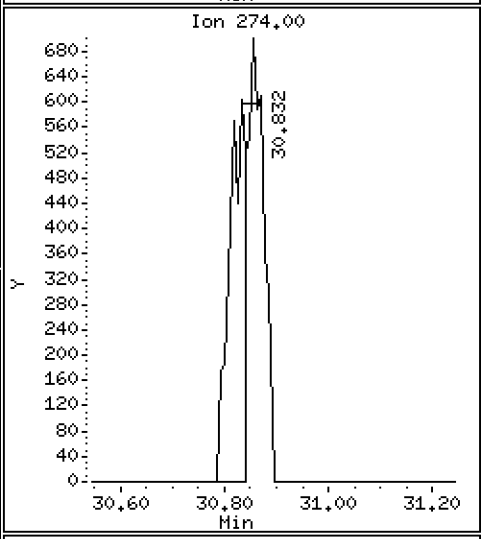
80 Benzo(g,h,i)perylene

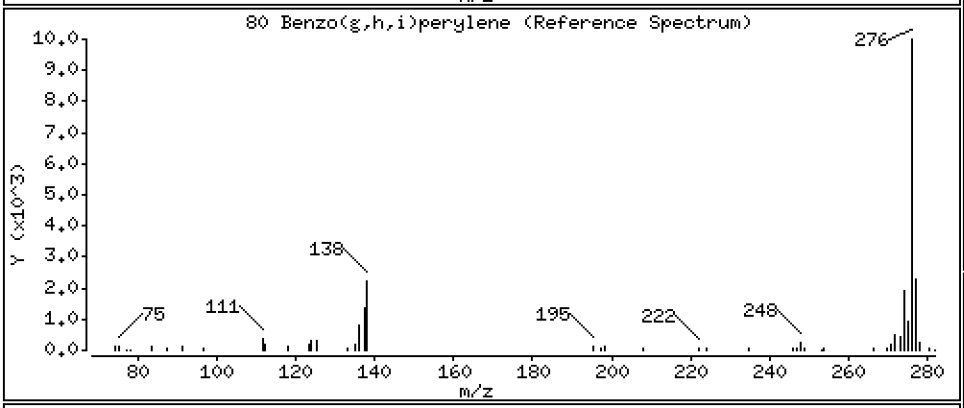
Concentration: 0.2099 ug/mL

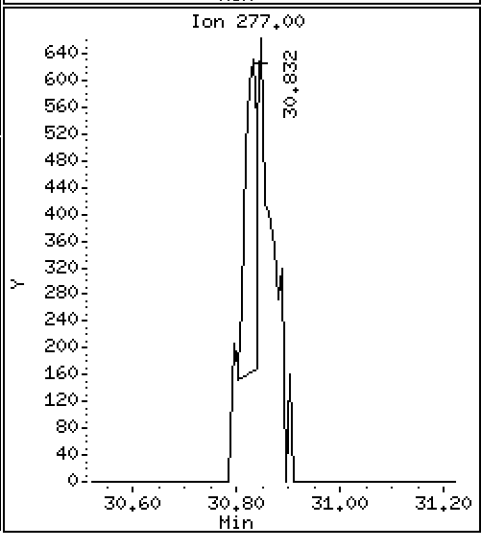


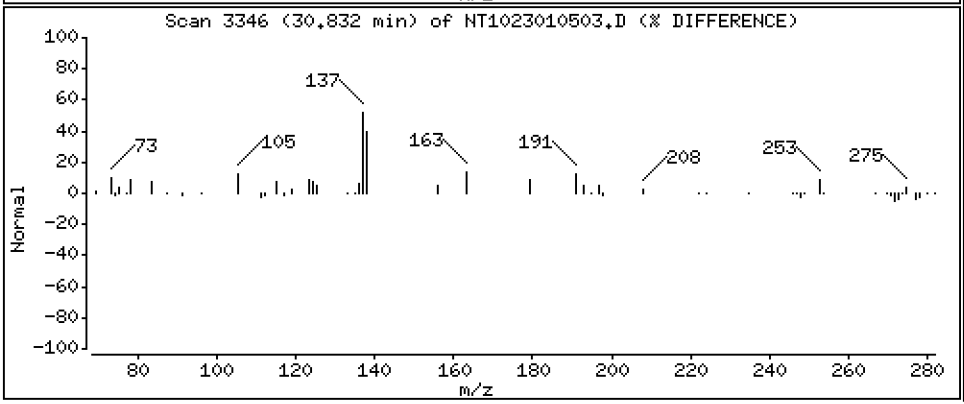












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

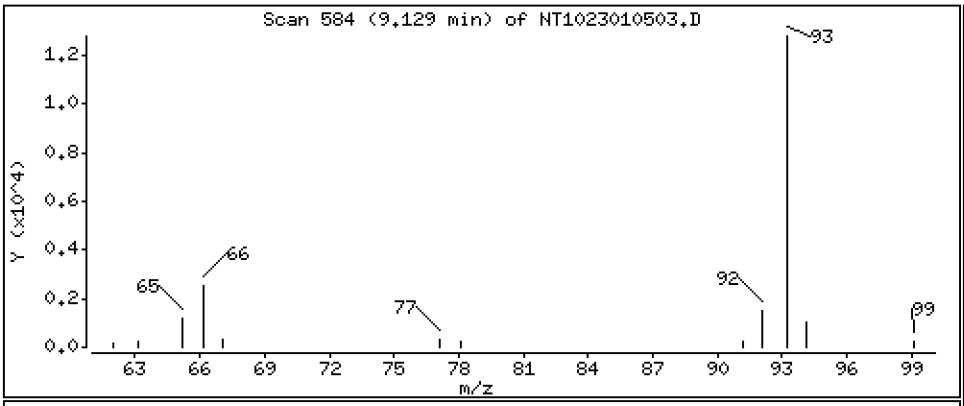
Operator: VTS

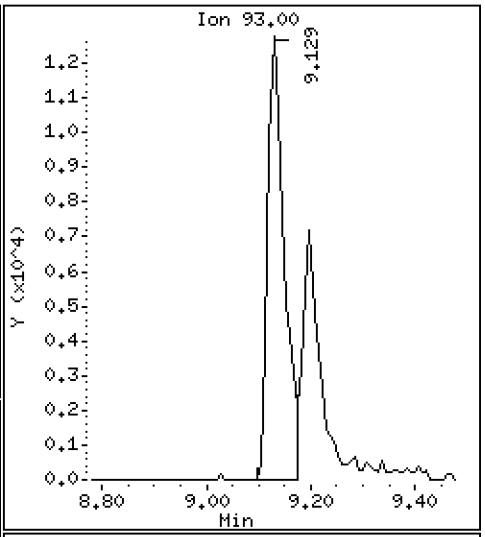
Column phase: ZB-5msi

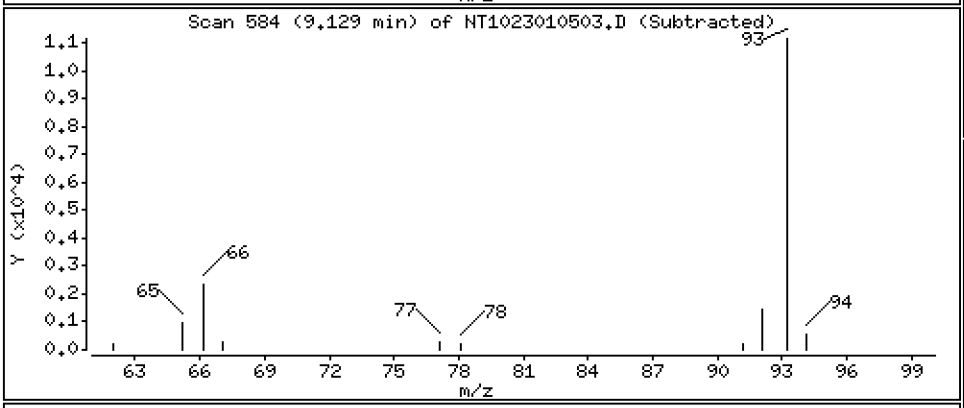
Column diameter: 0.25

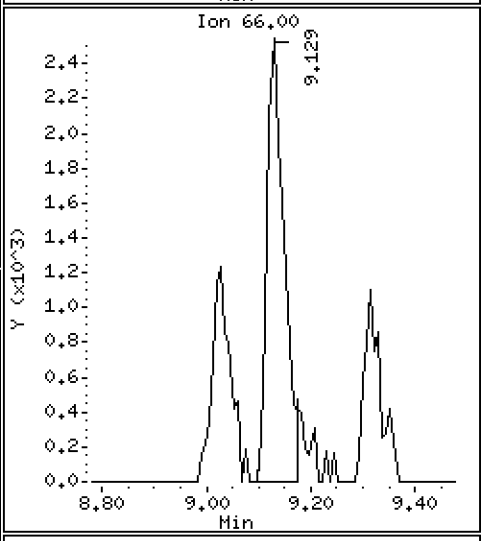
91 Aniline

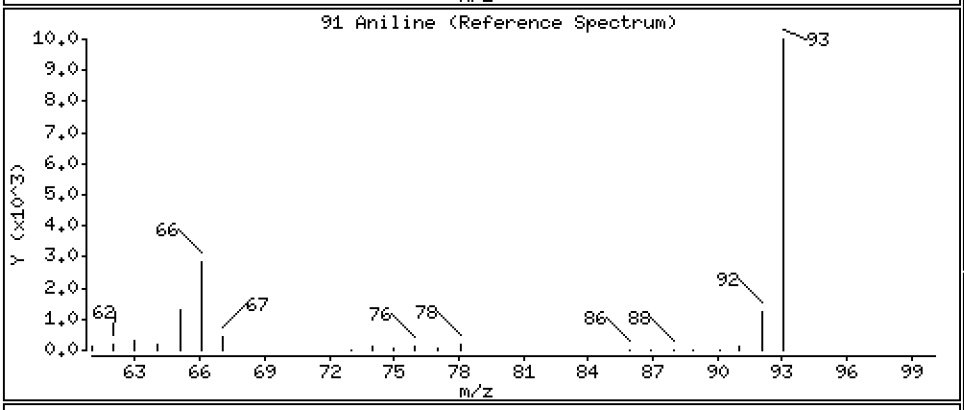
Concentration: 0.8295 ug/mL

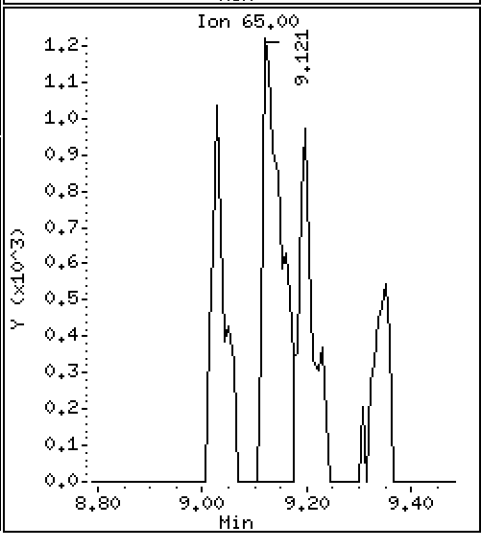


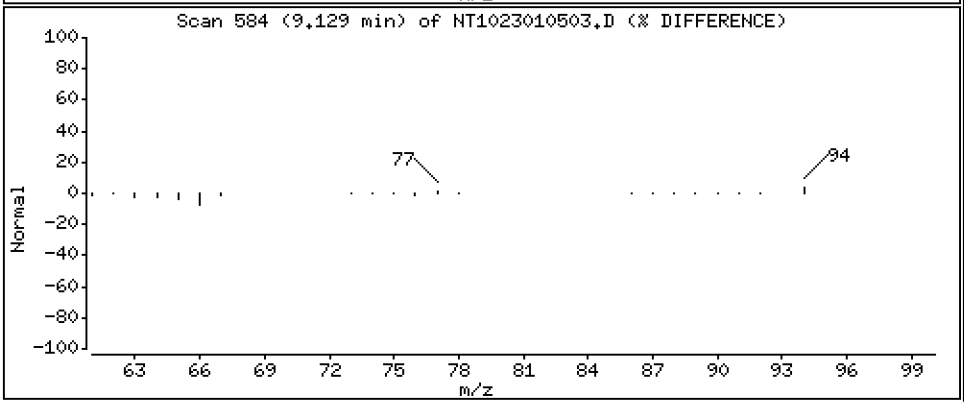












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

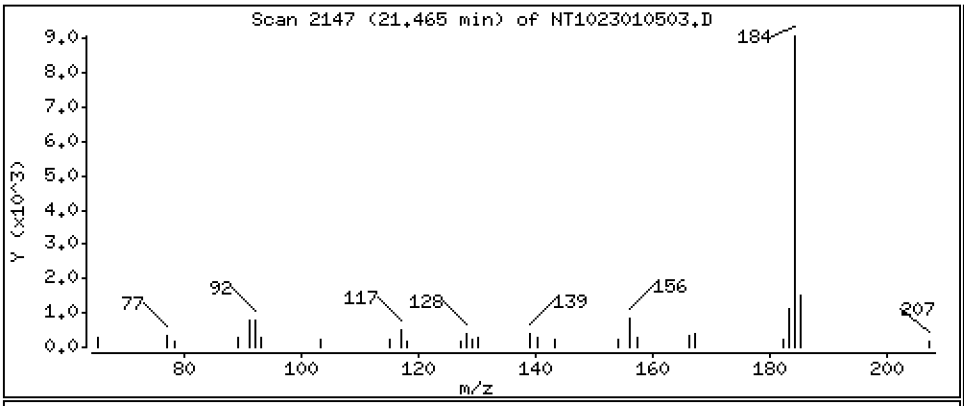
Operator: VTS

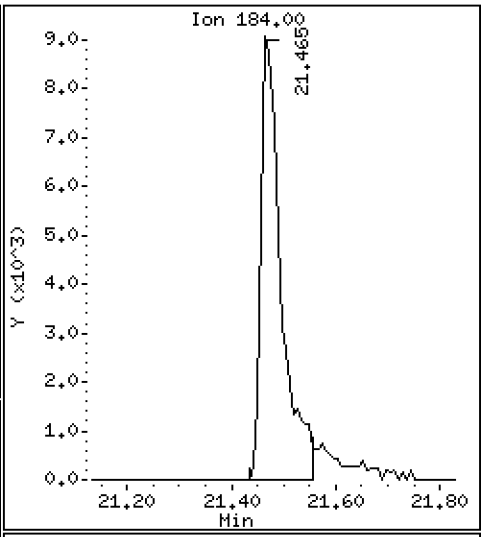
Column phase: ZB-5msi

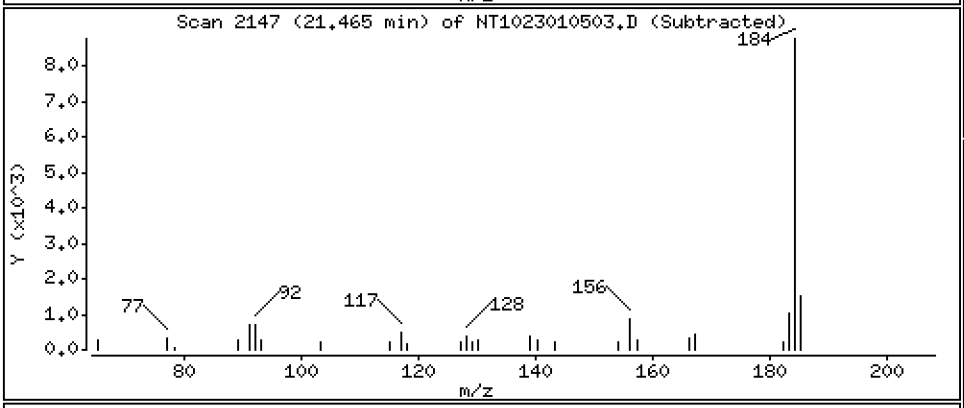
Column diameter: 0.25

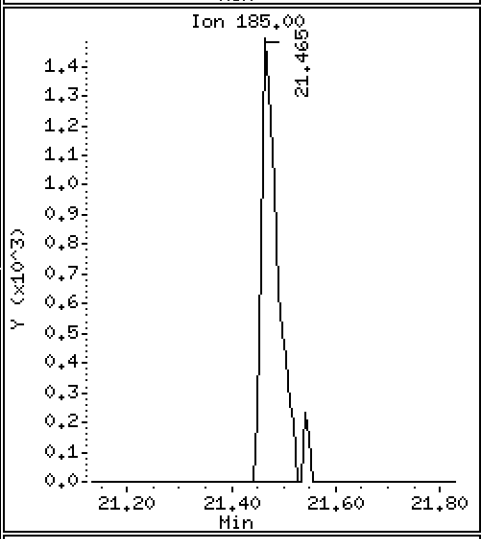
93 Benzidine

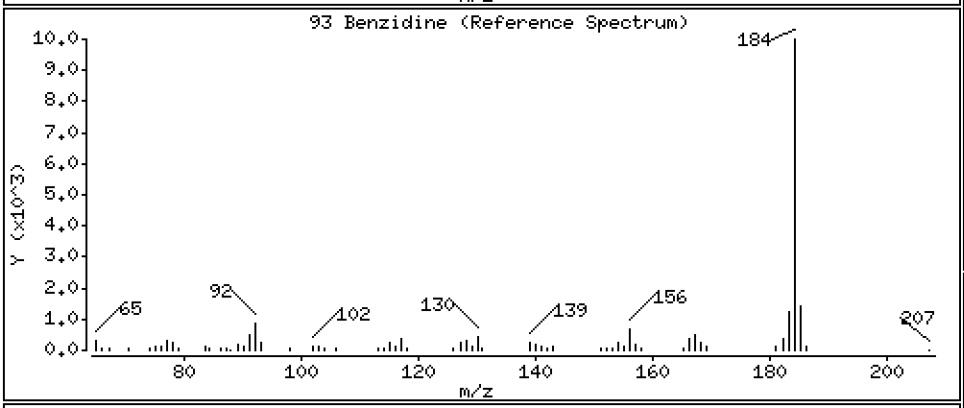
Concentration: 0.7207 ug/mL

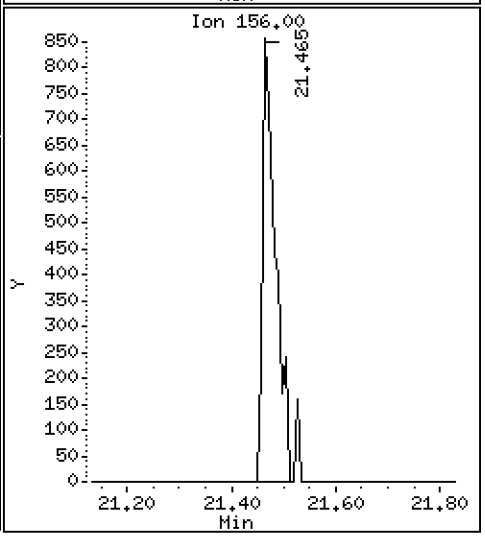


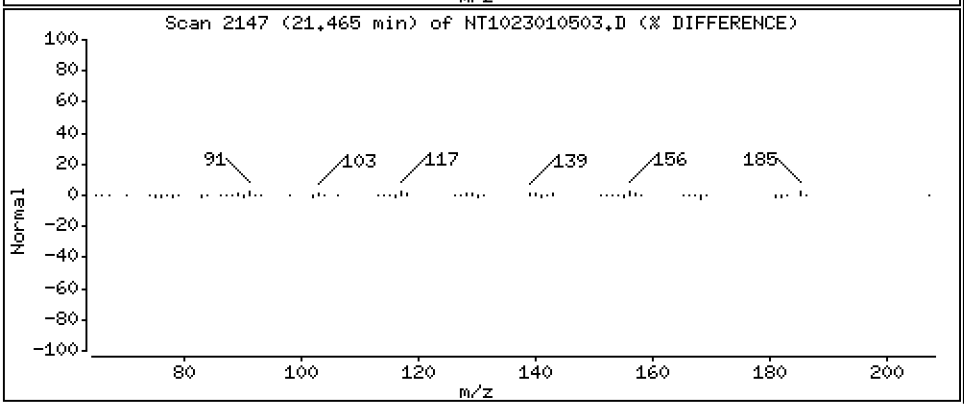












Data File: \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D

Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

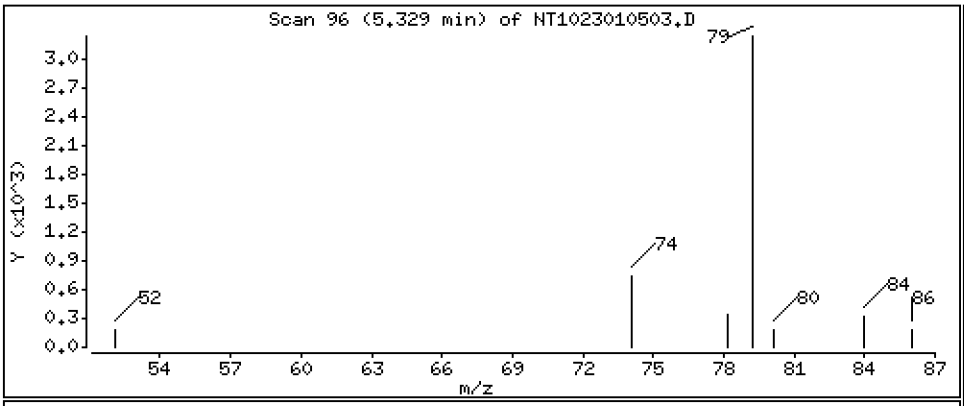
Operator: VTS

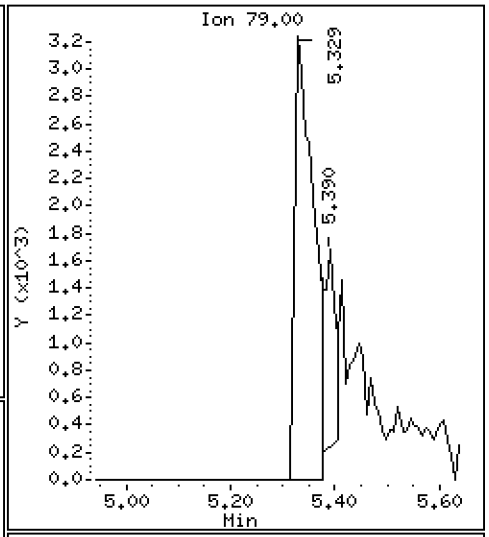
Column phase: ZB-5msi

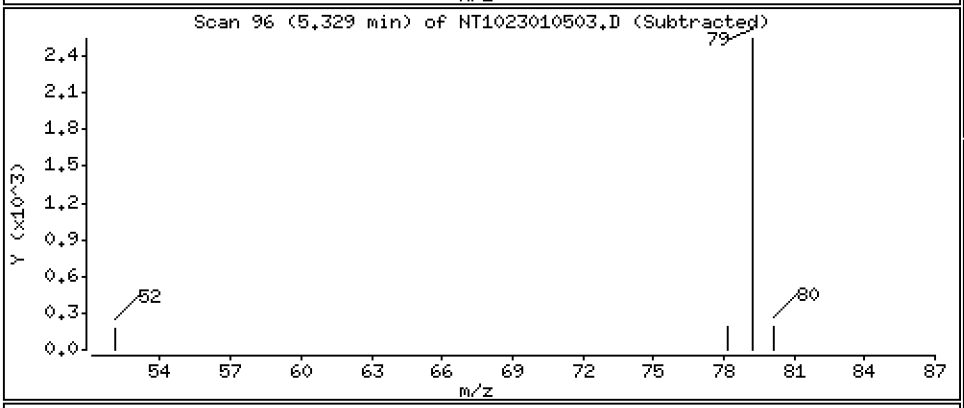
Column diameter: 0.25

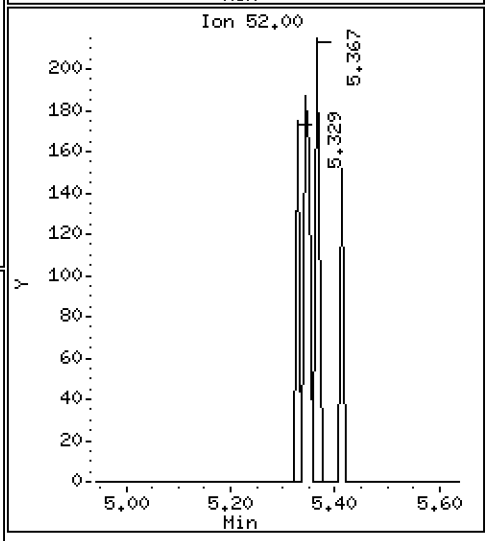
103 Pyridine

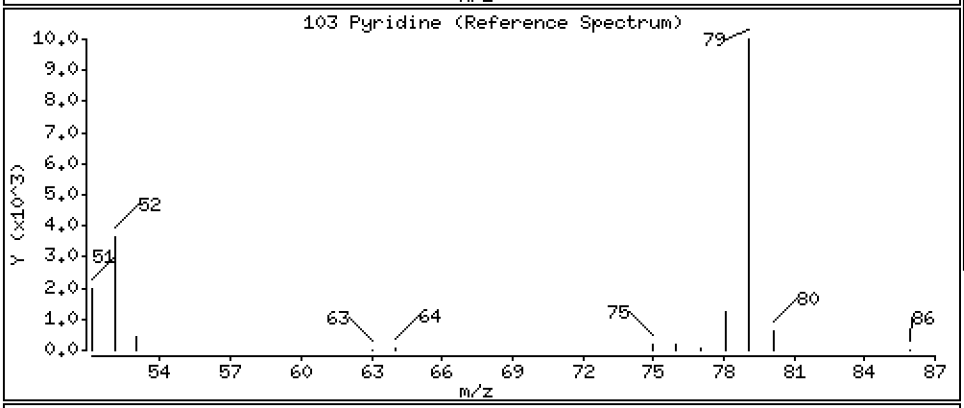
Concentration: 0.1661 ug/mL

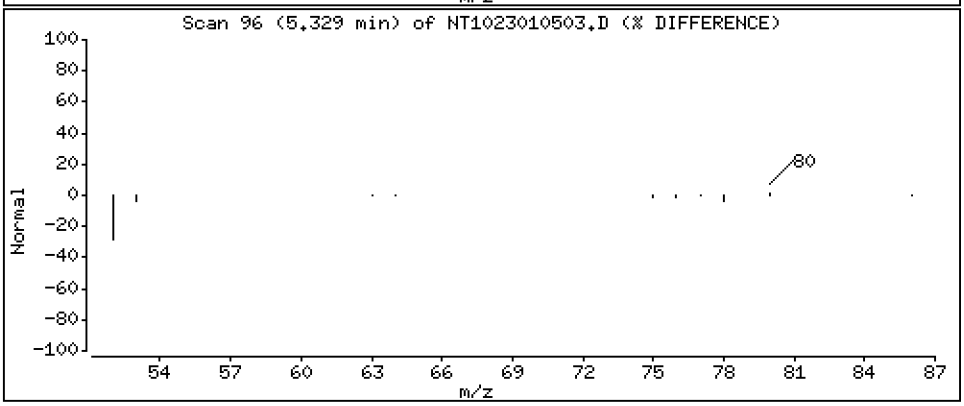












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

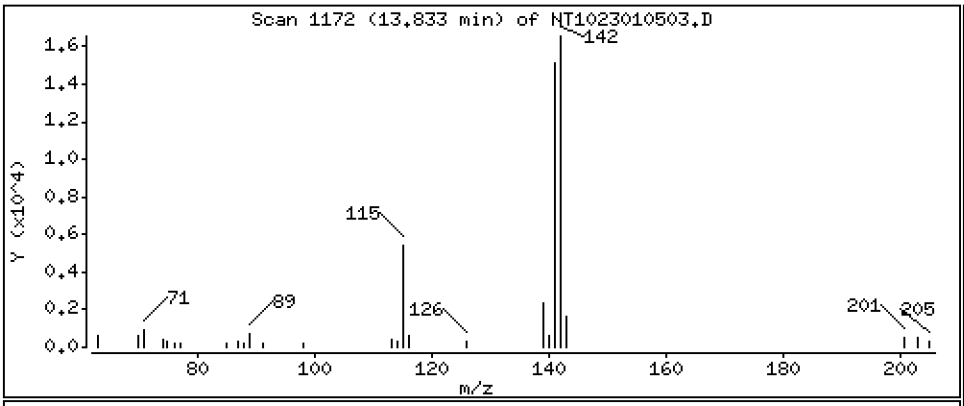
Operator: VTS

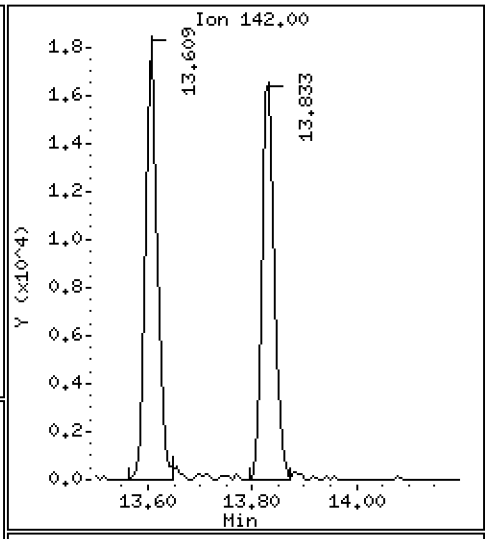
Column phase: ZB-5msi

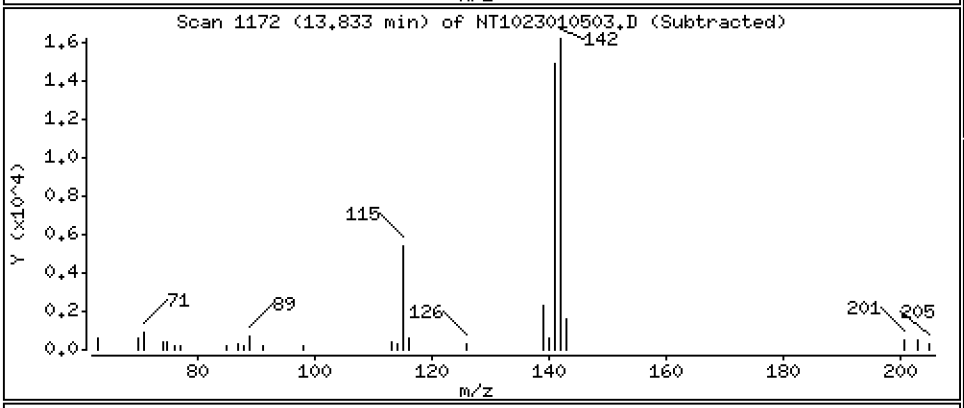
Column diameter: 0.25

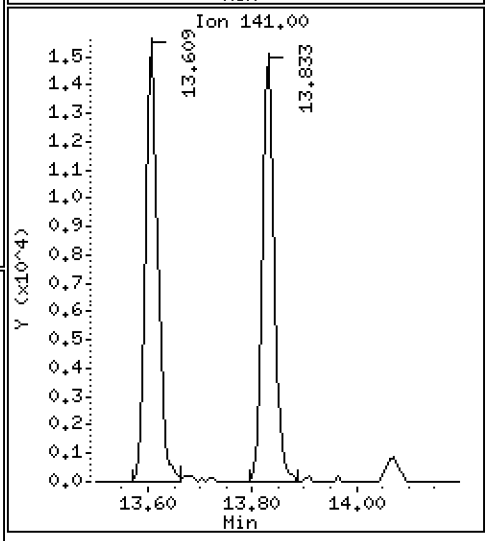
105 1-methylnaphthalene

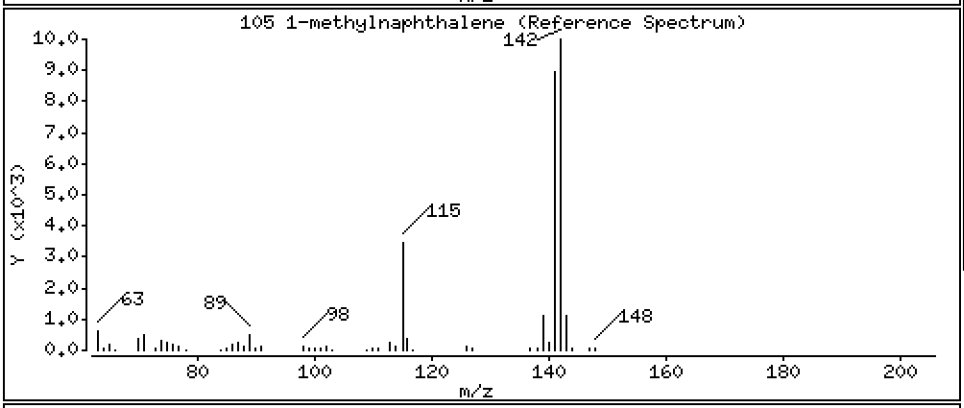
Concentration: 0.4456 ug/mL

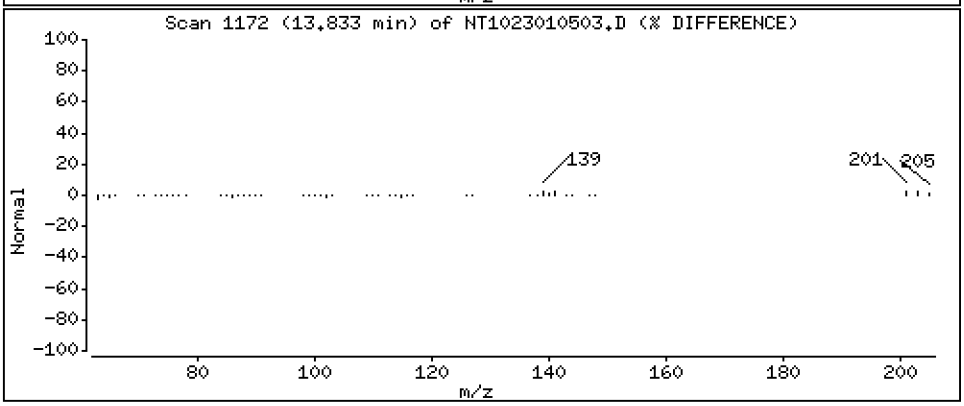












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

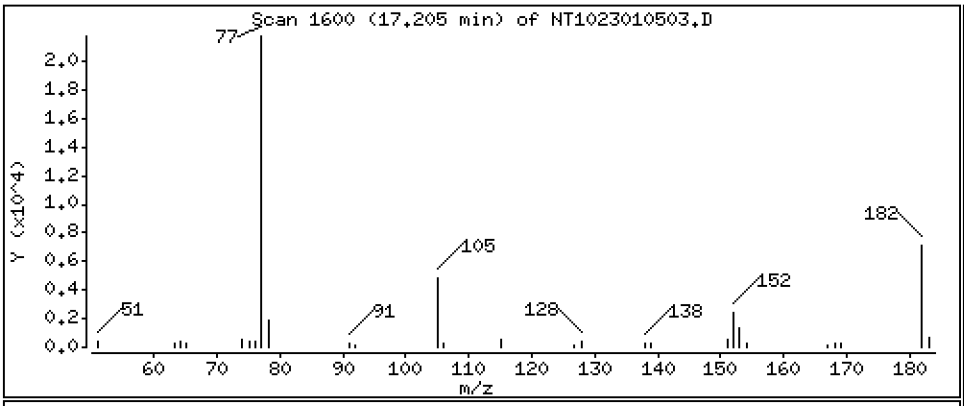
Operator: VTS

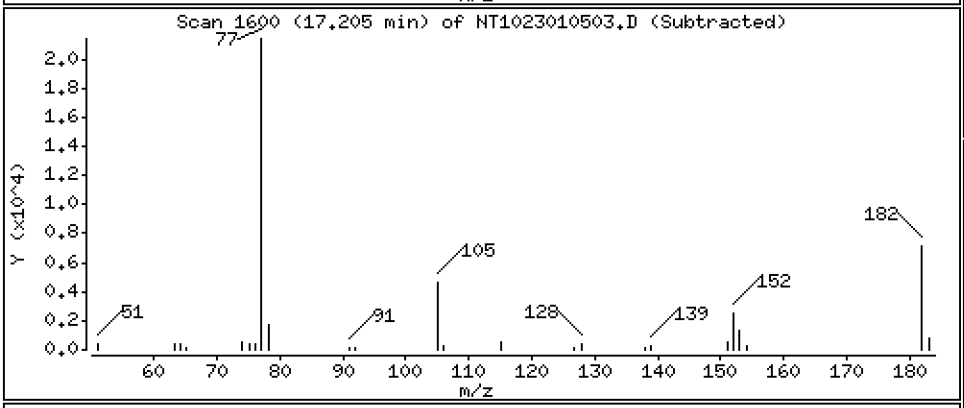
Column phase: ZB-5msi

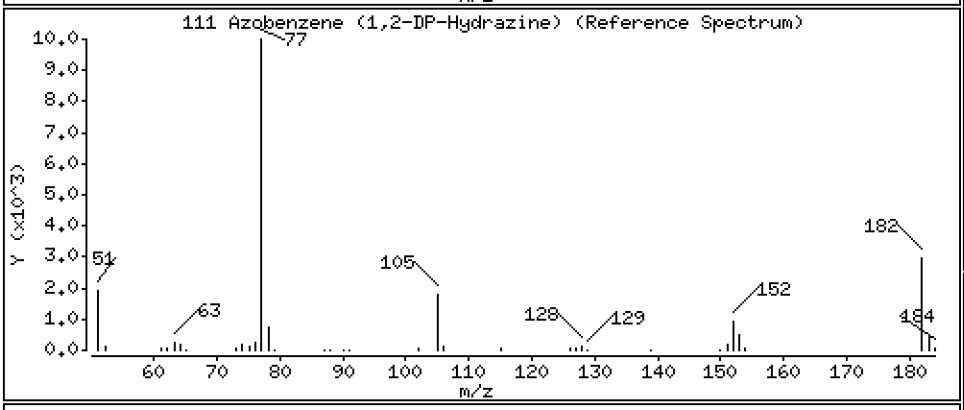
Column diameter: 0.25

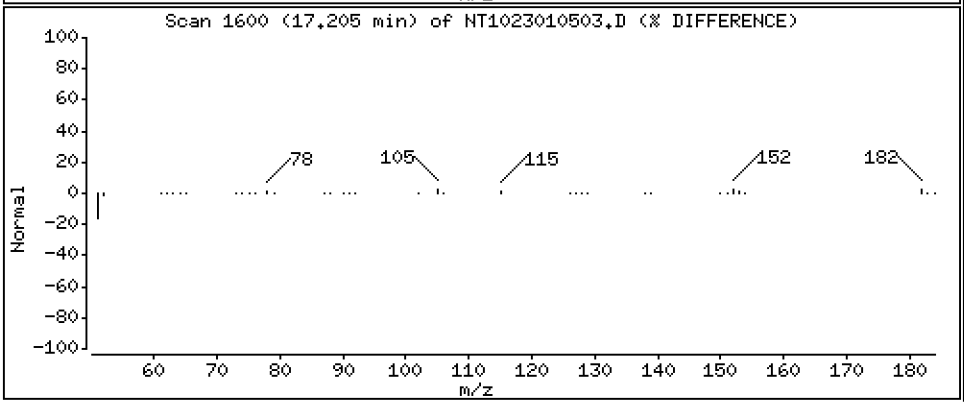
111 Azobenzene (1,2-DP-Hydrazine)

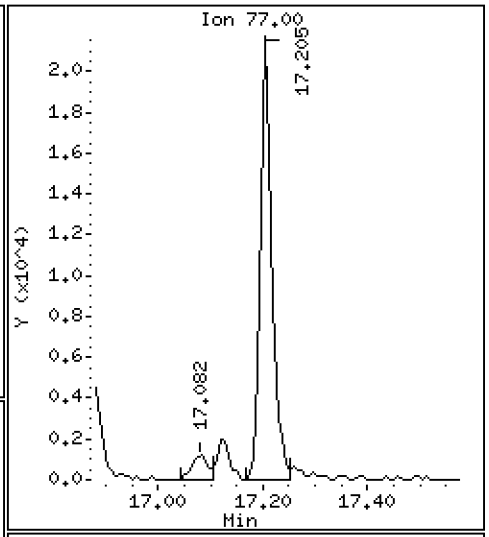
Concentration: 0.5540 ug/mL

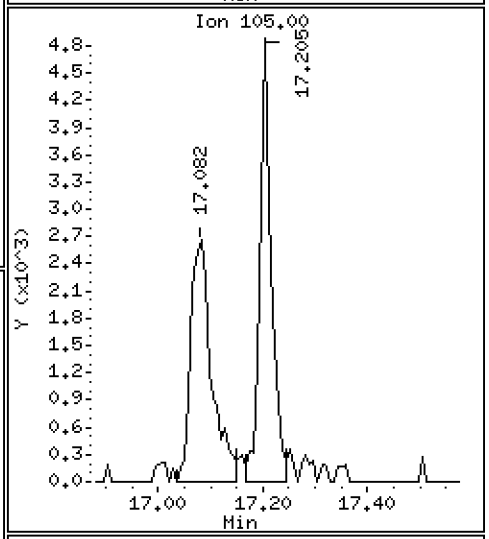


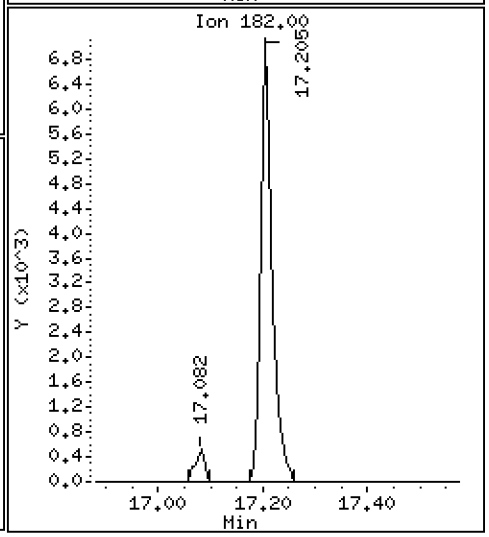












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

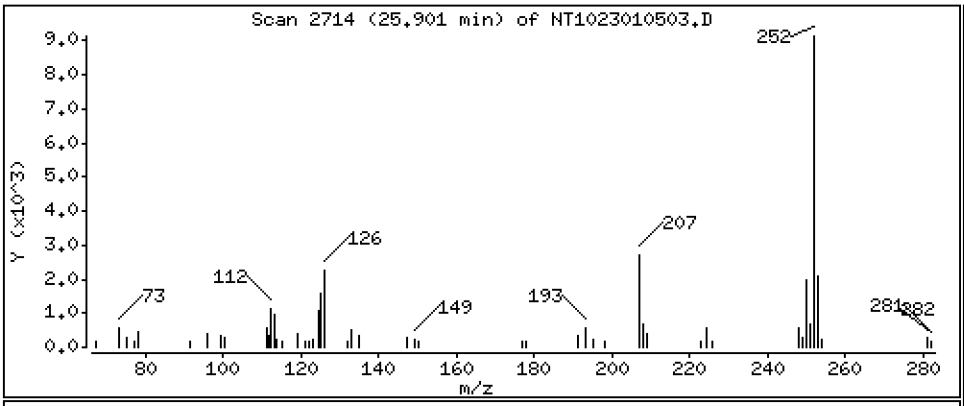
Operator: VTS

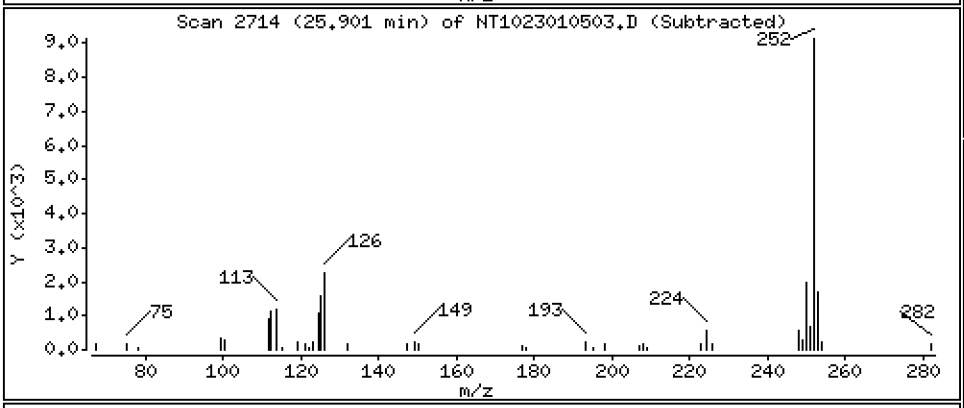
Column phase: ZB-5msi

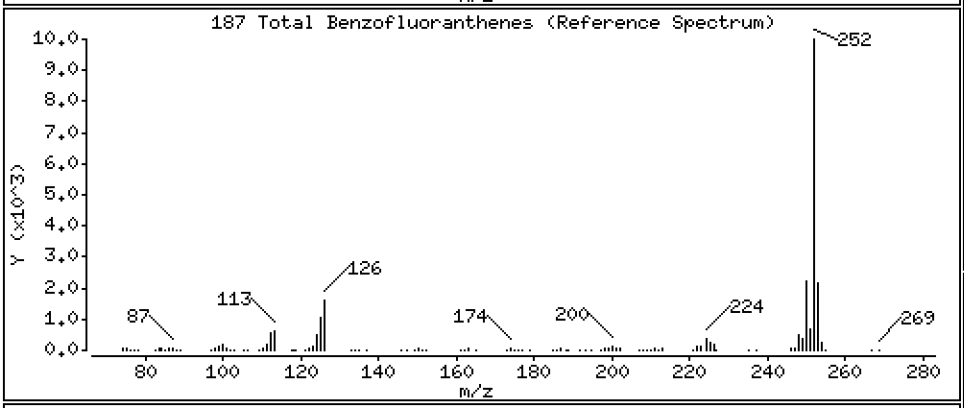
Column diameter: 0.25

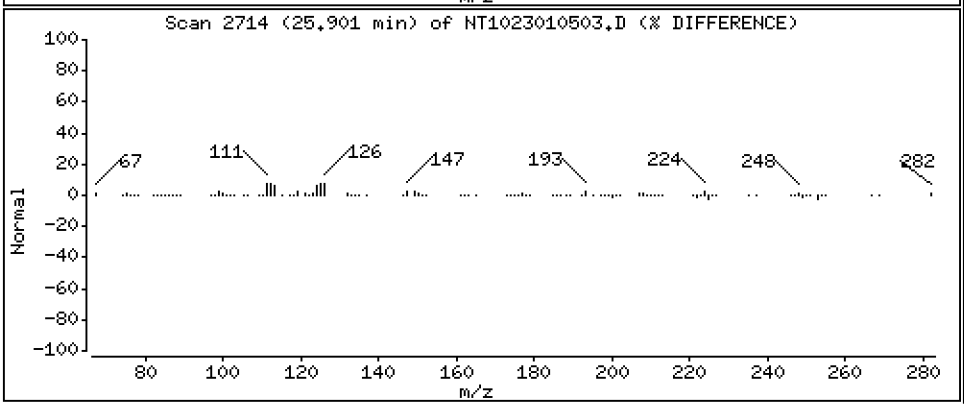
187 Total Benzofluoranthenes

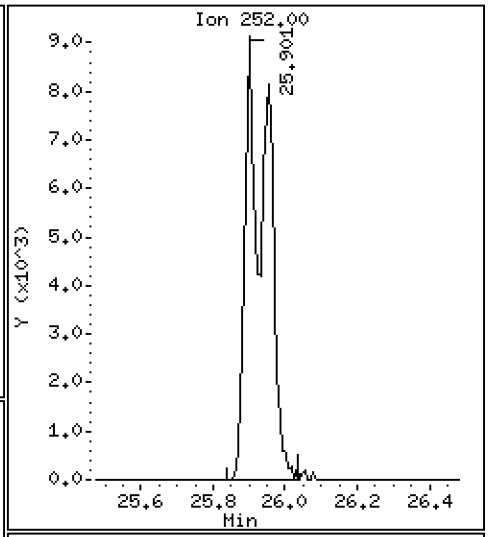
Concentration: 0.9861 ug/mL

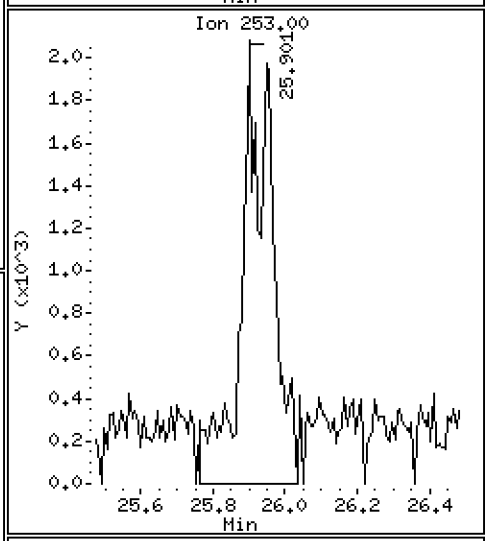


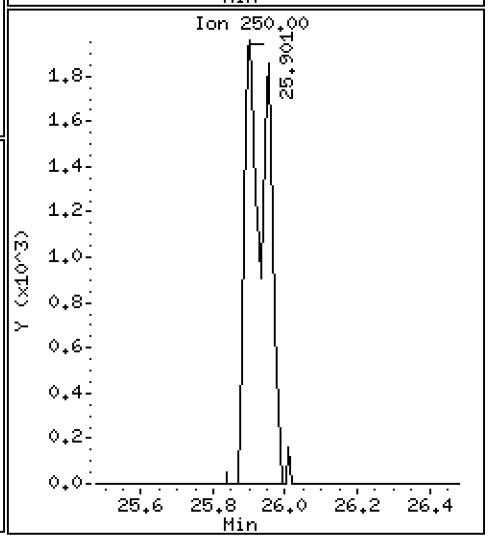












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Date : 05-JAN-2023 14:37

Client ID:

Instrument: nt10.i

Sample Info: SLA0061-LCV1

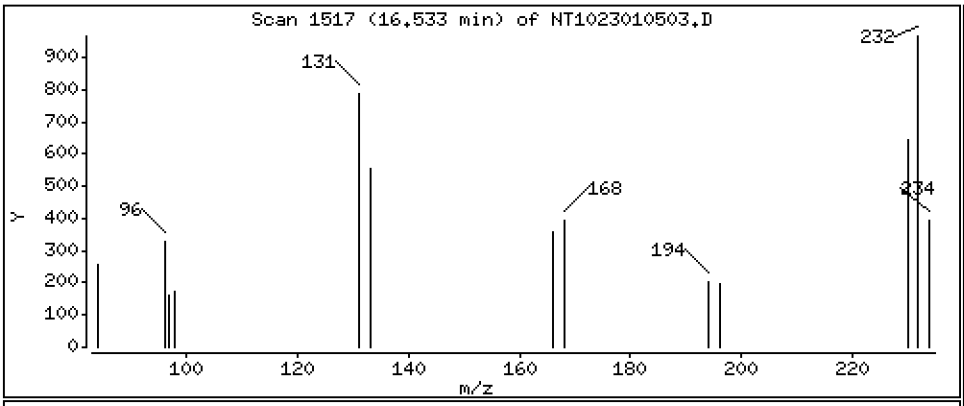
Operator: VTS

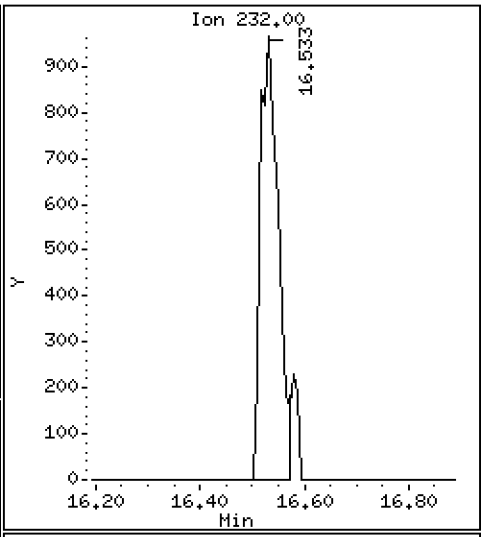
Column phase: ZB-5msi

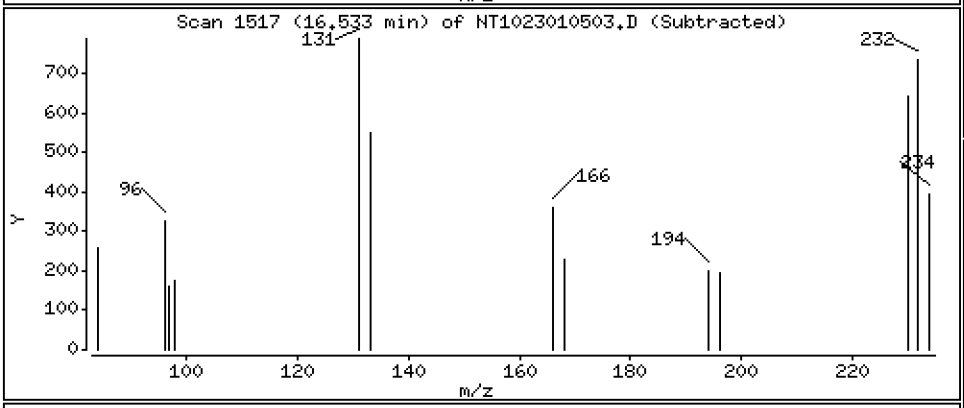
Column diameter: 0.25

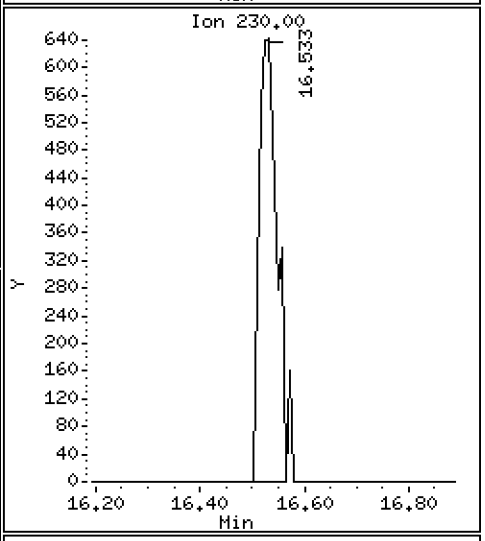
120 2,3,4,6-Tetrachlorophenol

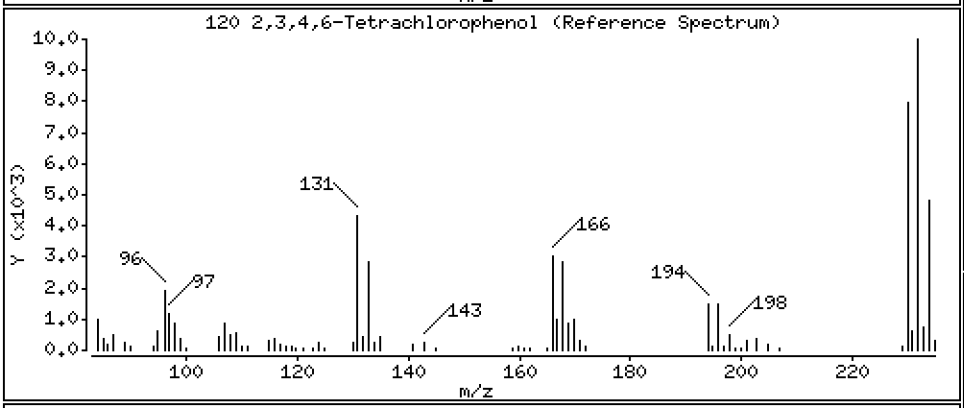
Concentration: 0.3024 ug/mL

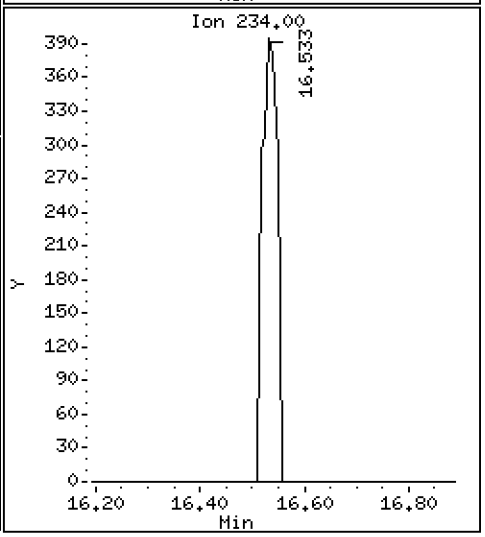


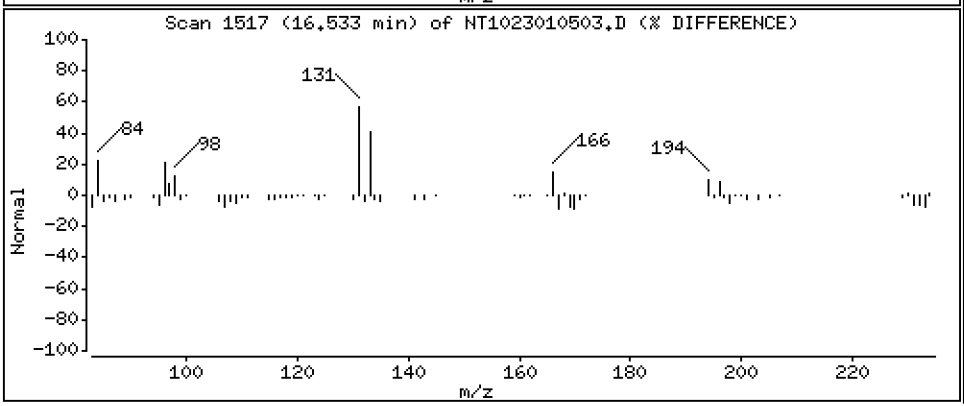












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt10.i\20230105.b\NT1023010503.D
Lab Smp Id: SLA0061-LCV1
Inj Date : 05-JAN-2023 14:37
Operator : VTS Inst ID: nt10.i
Smp Info : SLA0061-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt10.i\20230105.b\ABN.m
Meth Date : 06-Jan-2023 15:57 deenayd Quant Type: ISTD
Cal Date : 04-JAN-2023 15:03 Cal File: NT1023010410.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

		Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
$	1	2-Fluorophenol	112	7.436	7.429	(0.768)	16918	0.55648	0.5565
$	2	Phenol-d5	99	Compound Not Detected.					
	3	Phenol	94	9.028	9.036	(0.933)	14653	0.41516	0.4152
$	5	2-Chlorophenol-d4	132	9.314	9.321	(0.962)	22146	0.66957	0.6696
	4	Bis(2-Chloroethyl)ether	93	9.198	9.205	(0.950)	14011	0.44446	0.4445
	6	2-Chlorophenol	128	9.337	9.344	(0.965)	16281	0.46444	0.4644
	7	1,3-Dichlorobenzene	146	9.615	9.623	(0.994)	18124	0.49254	0.4925
*	8	1,4-Dichlorobenzene-d4	152	9.677	9.685	(1.000)	96119	4.00000	
	9	1,4-Dichlorobenzene	146	9.708	9.716	(1.003)	14660	0.46328	0.4633
$	10	1,2-Dichlorobenzene-d4	152	10.042	10.050	(1.038)	9639	0.46785	0.4679
	12	1,2-Dichlorobenzene	146	10.065	10.073	(1.040)	15598	0.48578	0.4858
	11	Benzyl alcohol	108	9.949	9.941	(1.028)	6022	0.36611	0.3661
	14	2,2'-oxybis(1-Chloropropane)	121	Compound Not Detected.					
	13	2-Methylphenol	108	10.151	10.158	(1.049)	11419	0.48017	0.4802
	17	Hexachloroethane	117	10.663	10.679	(1.102)	6484	0.46672	0.4667
	16	N-Nitroso-di-n-propylamine	70	Compound Not Detected.					
	15	4-Methylphenol	108	10.422	10.422	(1.077)	10673	0.65366	0.6537
$	18	Nitrobenzene-d5	82	10.772	10.779	(0.885)	9366	0.39816	0.3982
	19	Nitrobenzene	77	10.803	10.810	(0.888)	9607	0.44638	0.4464
	20	Isophorone	82	Compound Not Detected.					
	21	2-Nitrophenol	139	11.433	11.442	(0.940)	7231	0.36658	0.3666
	22	2,4-Dimethylphenol	107	11.459	11.476	(0.942)	22676	0.79757	0.7976
	23	Bis(2-Chloroethoxy)methane	93	11.654	11.671	(0.958)	11466	0.46573	0.4657
	24	Benzoic acid	105	11.671	11.671	(0.959)	242	0.02070	0.02070
	25	2,4-Dichlorophenol	162	11.892	11.900	(0.977)	18014	0.83053	0.8305
	26	1,2,4-Trichlorobenzene	180	12.077	12.092	(0.992)	14658	0.61901	0.6190
*	27	Naphthalene-d8	136	12.169	12.185	(1.000)	368093	4.00000	
	28	Naphthalene	128	12.208	12.224	(1.003)	38942	0.48112	0.4811
	29	4-Chloroaniline	127	12.332	12.339	(1.013)	26121	0.83257	0.8326
	30	Hexachlorobutadiene	225	12.563	12.579	(1.032)	4080	0.46365	0.4636
	31	4-Chloro-3-methylphenol	107	13.283	13.291	(1.092)	15059	0.65678	0.6568
	32	2-Methylnaphthalene	142	13.608	13.624	(1.118)	28484	0.44494	0.4449
	33	Hexachlorocyclopentadiene	237	14.072	14.088	(0.891)	5859	0.71292	0.7129

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	14.227	14.235	(0.901)	9874	0.77159	0.7716
	35	2,4,5-Trichlorophenol	196	14.312	14.312	(0.906)	10137	0.73019	0.7302
$	36	2-Fluorobiphenyl	172	14.374	14.398	(0.910)	26982	0.47444	0.4744
	37	2-Chloronaphthalene	162	14.606	14.622	(0.925)	25043	0.49290	0.4929
	38	2-Nitroaniline	65	14.862	14.862	(0.941)	4456	0.65477	0.6548
	39	Dimethylphthalate	163	15.264	15.280	(0.967)	24042	0.51934	0.5193
	40	Acenaphthylene	152	15.481	15.497	(0.980)	35709	0.48920	0.4892
	41	2,6-Dinitrotoluene	165	15.411	15.427	(0.976)	9507	0.90415	0.9041
*	42	Acenaphthene-d10	164	15.791	15.814	(1.000)	153509	4.00000	
	43	3-Nitroaniline	138	15.713	15.721	(0.995)	10588	1.44863	1.449
	44	Acenaphthene	153	15.860	15.876	(1.004)	20149	0.49741	0.4974
	45	2,4-Dinitrophenol	184	15.938	15.938	(1.009)	1532	0.22125	0.2212
	46	Dibenzofuran	168	16.193	16.208	(1.025)	29977	0.48701	0.4870
	47	4-Nitrophenol	109	16.077	16.038	(1.018)	1380	0.25239	0.2524
	48	2,4-Dinitrotoluene	165	16.224	16.247	(1.027)	11378	0.80643	0.8064
	50	Diethylphthalate	149	16.718	16.742	(1.059)	22460	0.46002	0.4600
	49	Fluorene	166	16.904	16.919	(1.070)	48880	0.54093	0.5409
	51	4-Chlorophenyl-phenylether	204	16.881	16.896	(1.069)	17102	0.58925	0.5893
	52	4-Nitroaniline	138	16.996	17.004	(1.076)	18184	0.90676	0.9068
	53	4,6-Dinitro-2-methylphenol	198	17.074	17.097	(0.906)	13320	1.11403	1.114
	54	N-Nitrosodiphenylamine	169	17.128	17.143	(0.909)	29278	0.55776	0.5578
$	55	2,4,6-Tribromophenol	330	17.444	17.459	(1.105)	1637	0.54828	0.5483
	56	4-Bromophenyl-phenylether	248	17.891	17.914	(0.949)	6209	0.44930	0.4493
	57	Hexachlorobenzene	284	18.223	18.238	(0.967)	6327	0.53537	0.5354
	58	Pentachlorophenol	266	Compound Not Detected.					
*	59	Phenanthrene-d10	188	18.850	18.865	(1.000)	283598	4.00000	
	60	Phenanthrene	178	18.896	18.919	(1.002)	33127	0.48147	0.4815
	61	Anthracene	178	18.989	19.005	(1.007)	29224	0.43510	0.4351
	62	Carbazole	167	19.306	19.322	(1.024)	31981	0.44187	0.4419
	63	Di-n-butylphthalate	149	20.049	20.072	(1.064)	39526	0.41480	0.4148
	64	Fluoranthene	202	21.248	21.271	(0.891)	33684	0.47213	0.4721
	65	Pyrene	202	21.674	21.689	(0.909)	34020	0.47482	0.4748
$	66	Terphenyl-d14	244	21.929	21.952	(0.919)	19853	0.45174	0.4517
	67	Butylbenzylphthalate	149	22.827	22.851	(0.957)	18059	0.46785	0.4679
	68	Benzo(a)anthracene	228	23.818	23.842	(0.999)	25972	0.52862	0.5286
*	69	Chrysene-d12	240	23.849	23.873	(1.000)	181369	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.757	23.780	(0.996)	24725	1.36441	1.364
	71	Chrysene	228	23.896	23.919	(1.002)	21920	0.48826	0.4883
	72	bis(2-Ethylhexyl)phthalate	149	23.842	23.865	(0.957)	27933	0.50301	0.5030
*	134	Di-n-octylphthalate-d4	153	24.902	24.926	(1.000)	361602	4.00000	
	73	Di-n-octylphthalate	149	24.910	24.941	(1.000)	41478	0.49604	0.4960
	74	Benzo(b)fluoranthene	252	25.901	25.932	(0.967)	20969	0.50771	0.5077
	75	Benzo(k)fluoranthene	252	25.955	25.978	(0.969)	19418	0.48256	0.4826
	76	Benzo(a)pyrene	252	26.660	26.691	(0.995)	18190	0.46186	0.4619
*	77	Perylene-d12	264	26.791	26.822	(1.000)	114656	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	29.907	29.946	(1.116)	13173	0.42552	0.4255
	79	Dibenzo(a,h)anthracene	278	29.931	29.970	(1.117)	10087	0.41467	0.4147
	80	Benzo(g,h,i)perylene	276	30.832	30.886	(1.151)	5362	0.20993	0.2099
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	9.128	9.128	(0.943)	27452	0.82953	0.8295
	93	Benzidine	184	21.465	21.480	(0.900)	24103	0.72073	0.7207
	103	Pyridine	79	5.328	5.290	(0.551)	8355	0.16615	0.1661
	105	1-methylnaphthalene	142	13.833	13.848	(1.137)	27871	0.44556	0.4456
	111	Azobenzene (1,2-DP-Hydrazine)	77	17.205	17.228	(1.090)	33539	0.55399	0.5540

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.901	25.978	(0.967)	38564	0.98612	0.9861
120 2,3,4,6-Tetrachlorophenol	232	16.533	16.541	(1.047)	2293	0.30239	0.3024

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt10.i
Lab File ID: NT1023010503.D
Lab Smp Id: SLA0061-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt10.i\20230105.b\ABN.m
Misc Info:

Calibration Date: 05-JAN-2023
Calibration Time: 13:58
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	81725	40863	163450	96119	17.61
27 Naphthalene-d8	307034	153517	614068	368093	19.89
42 Acenaphthene-d10	140557	70279	281114	153509	9.21
59 Phenanthrene-d10	243620	121810	487240	283598	16.41
69 Chrysene-d12	144852	72426	289704	181369	25.21
134 Di-n-octylphthala	387178	193589	774356	361602	-6.61
77 Perylene-d12	106683	53342	213366	114656	7.47

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.69	9.19	10.19	9.68	-0.08
27 Naphthalene-d8	12.19	11.69	12.69	12.17	-0.13
42 Acenaphthene-d10	15.81	15.31	16.31	15.79	-0.15
59 Phenanthrene-d10	18.87	18.37	19.37	18.85	-0.08
69 Chrysene-d12	23.87	23.37	24.37	23.85	-0.10
134 Di-n-octylphthala	24.93	24.43	25.43	24.90	-0.09
77 Perylene-d12	26.82	26.32	27.32	26.79	-0.12

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1023010503.D

Lab ID: SLA0061-LCV1
nt10.i, ABN.m, 05-JAN-2023 14:37

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

RRT check based on Ccal File: NT1023010502.D

On Column LOD for nt10.i, ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010634.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/07/23
Lab Sample ID:	SLA0068-CCV1	Injection Time:	07:27
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	5.0000	5.2	1.7995200	1.8638790		3.6	+/-50	
bis(2-chloroethyl) ether	A	5.0000	5.4	1.2396270	1.3331310		7.5	+/-50	
2-Chlorophenol	A	5.0000	5.2	1.4607190	1.5105490		3.4	+/-50	
1,3-Dichlorobenzene	A	5.0000	5.1	1.5489360	1.5933770		2.9	+/-50	
1,4-Dichlorobenzene	A	5.0000	5.7	1.4674070	1.6720800		13.9	+/-50	
1,2-Dichlorobenzene	A	5.0000	5.2	1.4391100	1.4980910		4.1	+/-50	
Benzyl Alcohol	A	5.0000	3.7	0.8011083	0.5993907		-25.2	+/-50	
2,2'-Oxybis(1-chloropropane)	A	5.0000	5.6	0.4172325	0.4695971		12.6	+/-50	
2-Methylphenol	A	5.0000	6.0	1.3076140	1.5642290		19.6	+/-50	
Hexachloroethane	A	5.0000	5.7	0.5396966	0.6099116		13.0	+/-50	
N-Nitroso-di-n-Propylamine	A	5.0000	6.3	0.7965591	1.0108500		26.9	+/-50	
4-Methylphenol	A	5.0000	5.3	1.3794240	1.4628040		6.0	+/-50	
Nitrobenzene	A	5.0000	6.0	0.3354574	0.4022332		19.9	+/-50	
Isophorone	A	5.0000	6.8	0.4275424	0.5849027		36.8	+/-50	
2-Nitrophenol	A	5.0000	5.4	0.2064997	0.2320422		8.0	+/-50	
2,4-Dimethylphenol	A	10.000	11.6	0.3501131	0.4047842		15.6	+/-50	
Bis(2-Chloroethoxy)methane	A	5.0000	5.5	0.3325989	0.3634707		9.3	+/-50	
2,4-Dichlorophenol	A	10.000	10.8	0.2951237	0.3188752		8.0	+/-50	
1,2,4-Trichlorobenzene	A	5.0000	5.8	0.3191088	0.3705857		16.1	+/-50	
Naphthalene	A	5.0000	5.2	0.9843833	1.0242110		4.0	+/-50	
Benzoic acid	A	20.000	13.4	0.1508906	0.1468551		-33.1	+/-50	
4-Chloroaniline	A	10.000	10.2	0.4059568	0.4158640		2.4	+/-50	
Hexachlorobutadiene	A	5.0000	6.3	0.1583286	0.1981202		25.1	+/-50	
4-Chloro-3-Methylphenol	A	10.000	11.7	0.2785027	0.3262688		17.2	+/-50	
2-Methylnaphthalene	A	5.0000	5.2	0.7220739	0.7522945		4.2	+/-50	
Hexachlorocyclopentadiene	A	10.000	4.9	0.3023695	0.1467520		-51.5	+/-50	*
2,4,6-Trichlorophenol	A	10.000	11.2	0.3338641	0.3732066		11.8	+/-50	
2,4,5-Trichlorophenol	A	10.000	10.7	0.3853234	0.4105909		6.6	+/-50	
2-Chloronaphthalene	A	5.0000	5.5	1.1441150	1.2565060		9.8	+/-50	
2-Nitroaniline	A	10.000	14.6	0.3007956	0.4394702		46.1	+/-50	
Acenaphthylene	A	5.0000	6.0	1.7445240	2.1084100		20.9	+/-50	
Dimethylphthalate	A	5.0000	5.8	1.1280520	1.3126140		16.4	+/-50	
2,6-Dinitrotoluene	A	10.000	12.2	0.2545771	0.3100138		21.8	+/-50	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010634.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/07/23
Lab Sample ID:	SLA0068-CCV1	Injection Time:	07:27
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Acenaphthene	A	5.0000	5.7	1.0820160	1.2278830		13.5	+/-50	
3-Nitroaniline	A	10.000	10.7	0.3094189	0.3305220		6.8	+/-50	
2,4-Dinitrophenol	A	20.000	12.2	0.1831718	0.1360065		-38.8	+/-50	
Dibenzofuran	A	5.0000	5.3	1.6225950	1.7150400		5.7	+/-50	
4-Nitrophenol	A	10.000	11.3	0.1384031	0.1724936		13.5	+/-50	
2,4-Dinitrotoluene	A	10.000	11.9	0.3492859	0.4157278		19.0	+/-50	
Fluorene	A	5.0000	5.3	1.7261350	1.8256450		5.8	+/-50	
4-Chlorophenylphenyl ether	A	5.0000	4.8	0.8450792	0.8117353		-3.9	+/-50	
Diethyl phthalate	A	5.0000	6.3	1.5332690	1.9278870		25.7	+/-50	
4-Nitroaniline	A	10.000	10.3	0.3413732	0.3917195		2.7	+/-50	
4,6-Dinitro-2-methylphenol	A	20.000	17.1	0.1530278	0.1487584		-14.7	+/-50	
N-Nitrosodiphenylamine	A	5.0000	5.3	0.6863845	0.7242931		5.5	+/-50	
4-Bromophenyl phenyl ether	A	5.0000	5.1	0.2599074	0.2641542		1.6	+/-50	
Hexachlorobenzene	A	5.0000	5.0	0.2852204	0.2876489		0.9	+/-50	
Pentachlorophenol	A	10.000	4.0	0.1128364	0.0506231		-59.8	+/-50	*
Phenanthrene	A	5.0000	5.3	1.0429190	1.1125640		6.7	+/-50	
Anthracene	A	5.0000	5.7	0.9956202	1.1381370		14.3	+/-50	
Carbazole	A	5.0000	5.5	0.9624945	1.0586280		10.0	+/-50	
Di-n-Butylphthalate	A	5.0000	6.2	1.0394700	1.4189960		24.0	+/-50	
Fluoranthene	A	5.0000	5.9	1.2879410	1.5289360		18.7	+/-50	
Pyrene	A	5.0000	5.8	1.3541610	1.5764820		16.4	+/-50	
Butylbenzylphthalate	A	5.0000	7.2	0.4650792	0.7562293		44.2	+/-50	
Benzo(a)anthracene	A	5.0000	5.7	1.2117210	1.3904860		14.8	+/-50	
3,3'-Dichlorobenzidine	A	15.000	18.8	0.3709370	0.4650269		25.4	+/-50	
Chrysene	A	5.0000	6.0	1.1445730	1.3839570		20.9	+/-50	
bis(2-Ethylhexyl)phthalate	A	5.0000	6.6	0.4442323	0.5826583		31.2	+/-50	
Di-n-Octylphthalate	A	5.0000	5.3	0.9601702	1.0146080		5.7	+/-50	
Benzofluoranthenes, Total	A	10.000	10.8	1.2153330	1.3066660		7.5	+/-50	
Benzo(a)pyrene	A	5.0000	5.8	1.0450150	1.2083140		15.6	+/-50	
Indeno(1,2,3-cd)pyrene	A	5.0000	5.2	1.1879490	1.2302870		3.6	+/-50	
Dibenzo(a,h)anthracene	A	5.0000	5.2	1.0094890	1.0485160		3.9	+/-50	
Benzo(g,h,i)perylene	A	5.0000	4.5	0.9951726	0.8937489		-10.2	+/-50	
1-Methylnaphthalene	A	5.0000	5.3	0.6937882	0.7356814		6.0	+/-50	
2-Fluorophenol	A	7.5000	8.16	1.2814900	1.3943950		8.8	+/-50	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010634.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/07/23
Lab Sample ID:	SLA0068-CCV1	Injection Time:	07:27
Sequence Name:	ABN 5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol-d5	A	7.5000	8.22	1.5836890	1.7364190		9.6	+/-50
2-Chlorophenol-d4	A	7.5000	8.12	1.3300510	1.4401730		8.3	+/-50
1,2-Dichlorobenzene-d4	A	5.0000	5.24	0.9090592	0.9532651		4.9	+/-50
Nitrobenzene-d5	A	5.0000	6.19	0.3377760	0.4183979		23.9	+/-50
2-Fluorobiphenyl	A	5.0000	5.43	1.3448860	1.4609260		8.6	+/-50
2,4,6-Tribromophenol	A	7.5000	6.58	0.1844845	0.1703552		-12.2	+/-50
p-Terphenyl-d14	A	5.0000	5.72	0.9601842	1.0981980		14.4	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010634.D

Page 1

Date : 07-JAN-2023 07:27

Client ID:

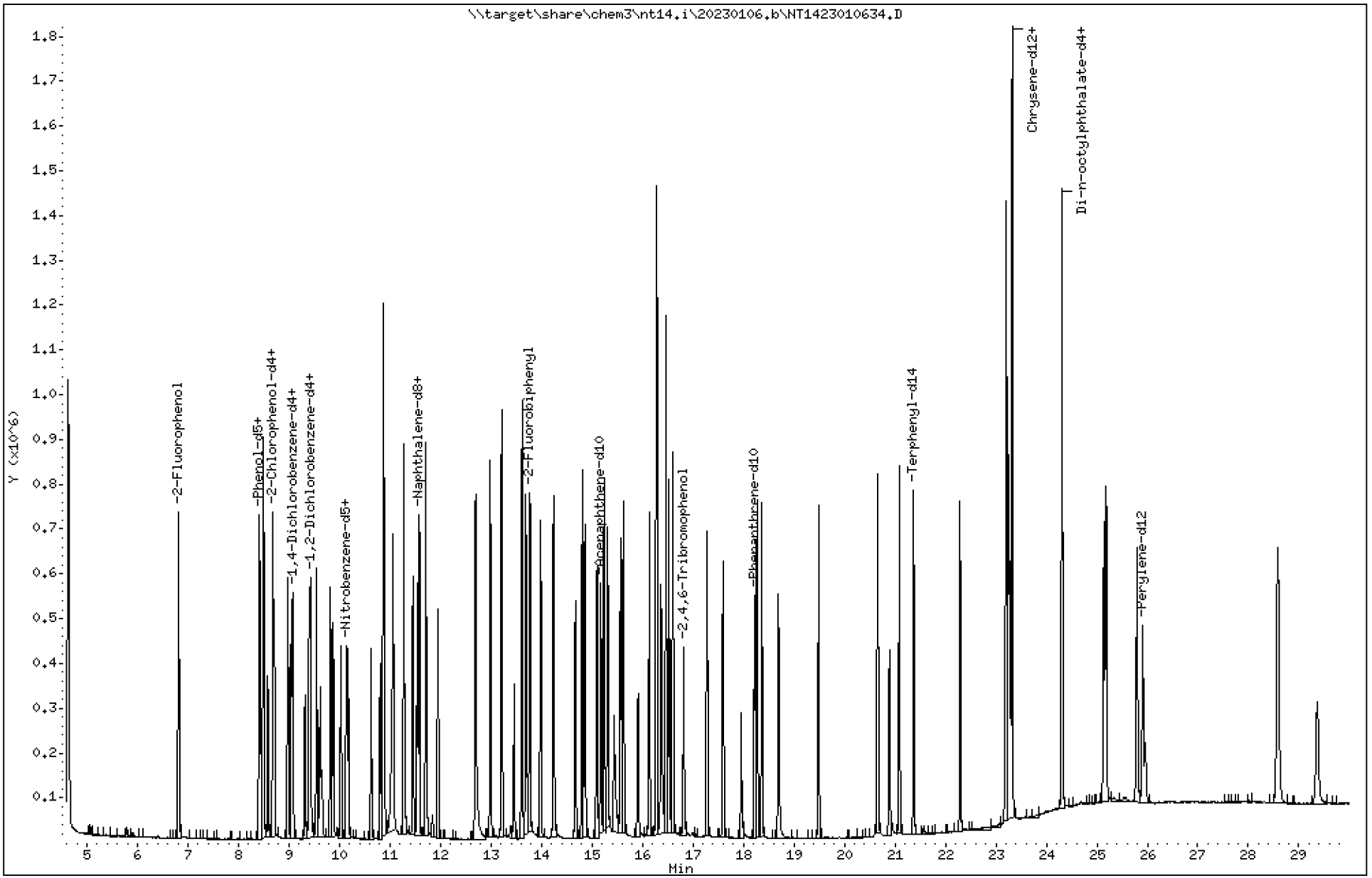
Instrument: nt14.i

Sample Info: SLA0068-CCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 3458 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010634.D

Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

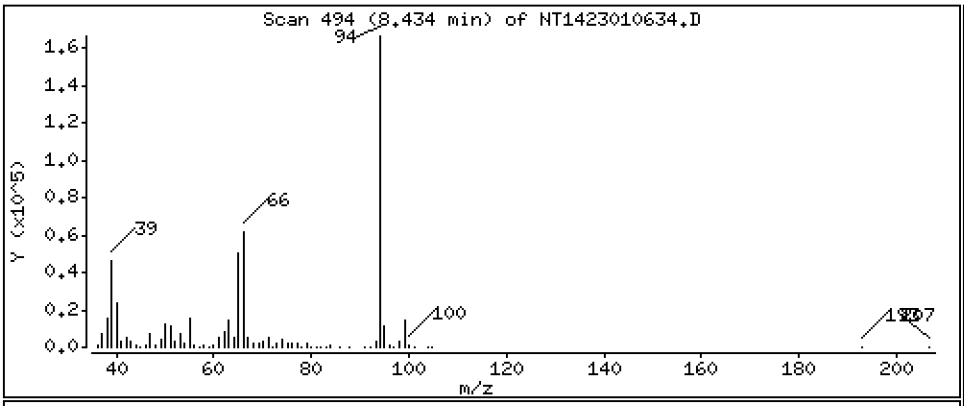
Operator: VTS

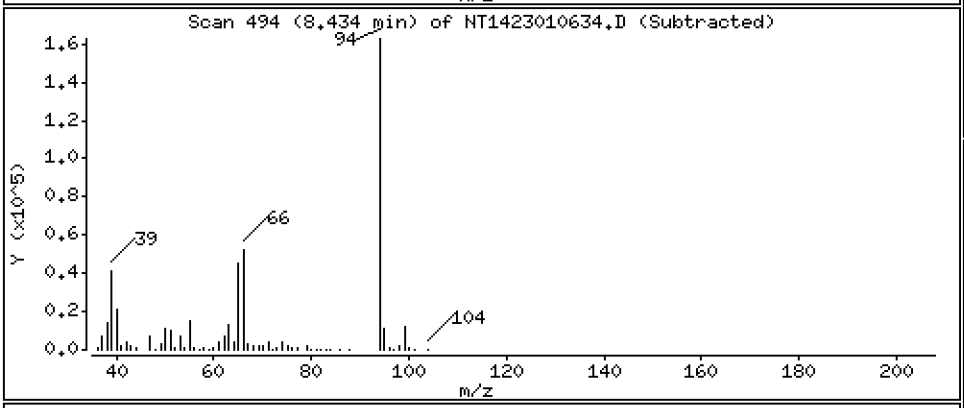
Column phase: ZB-5msi

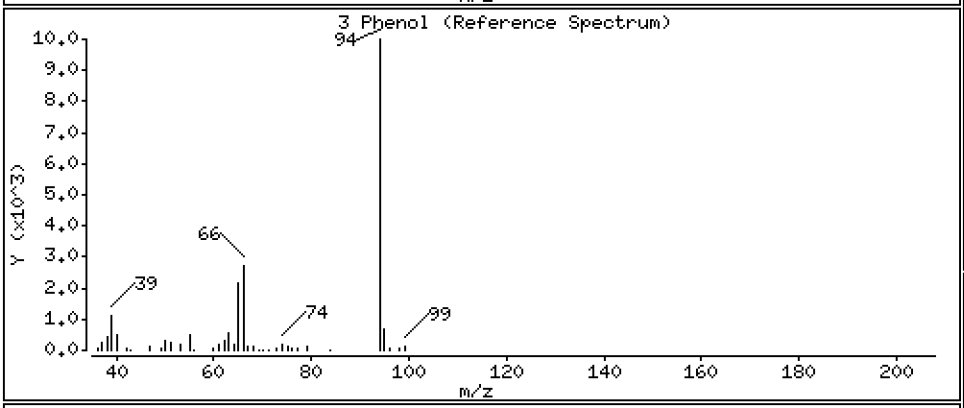
Column diameter: 0.25

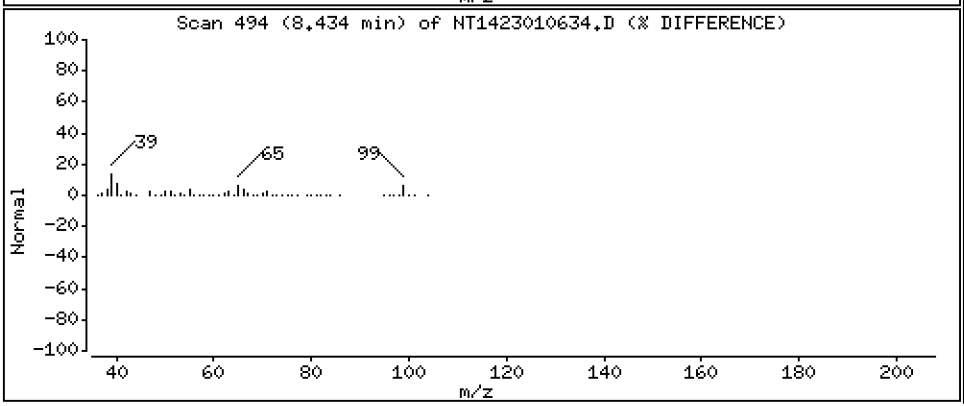
3 Phenol

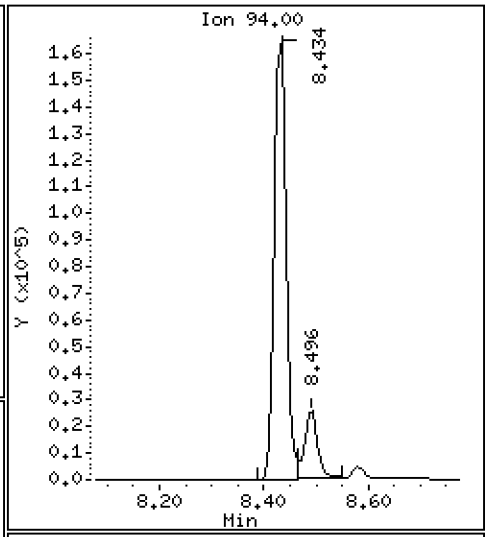
Concentration: 5.179 ug/mL

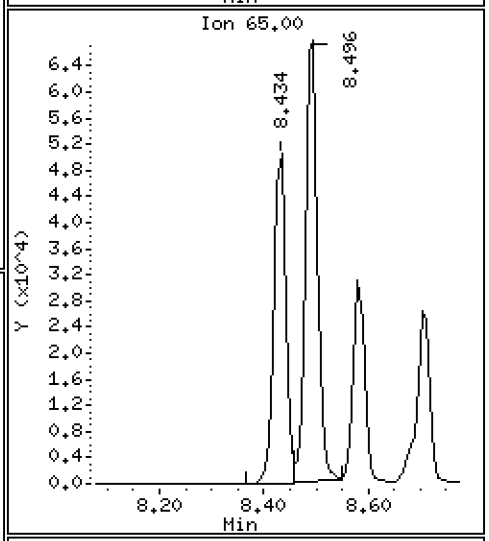


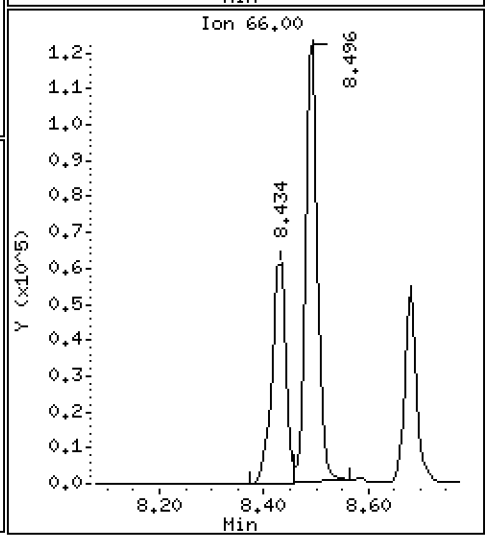












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

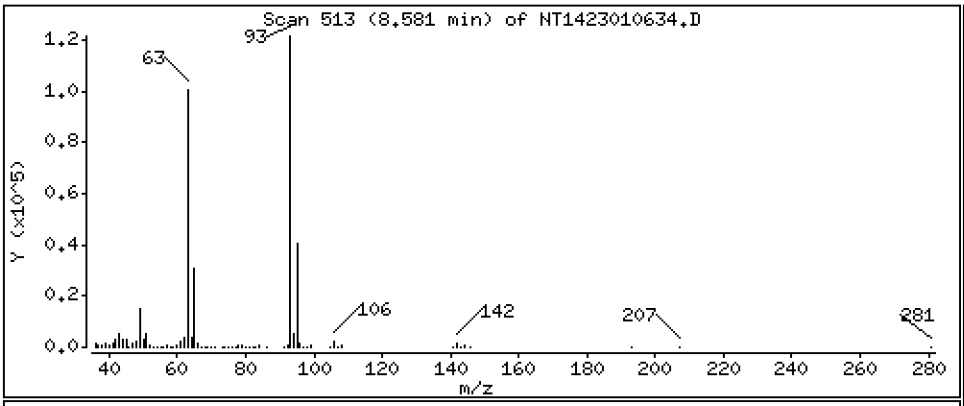
Operator: VTS

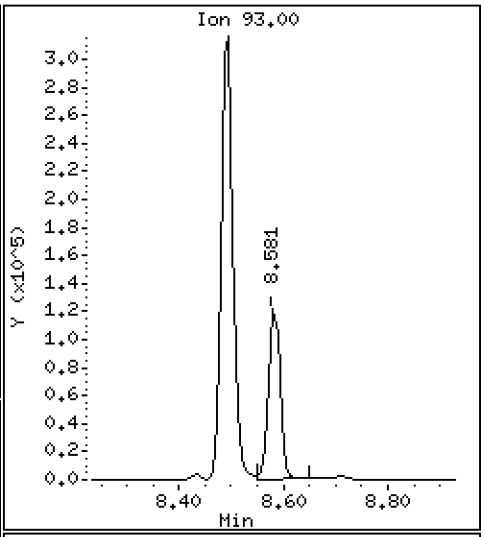
Column phase: ZB-5msi

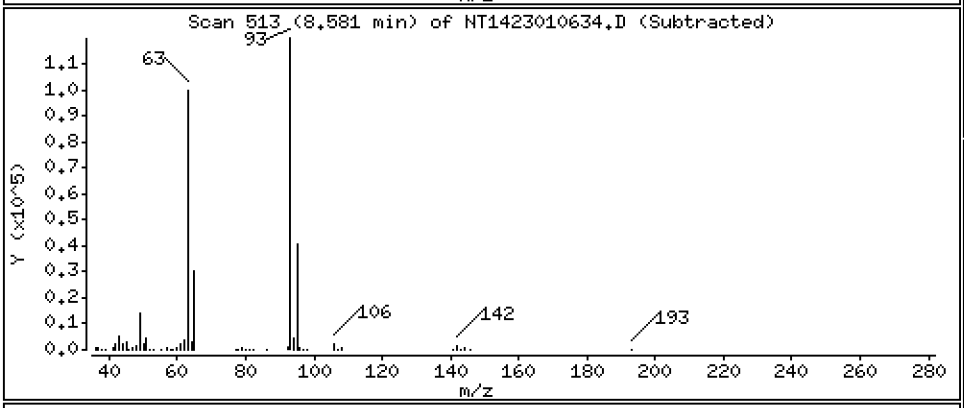
Column diameter: 0.25

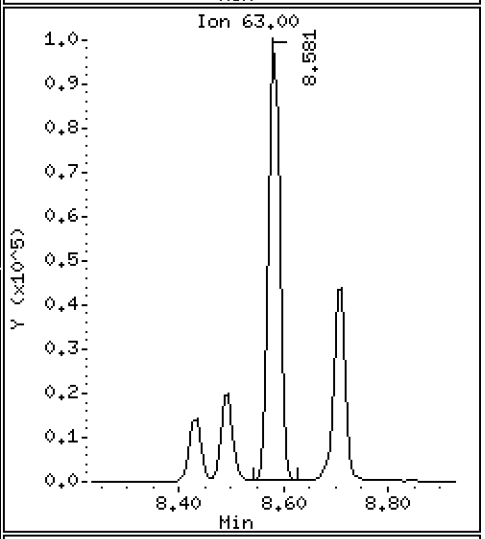
4 Bis(2-Chloroethyl)ether

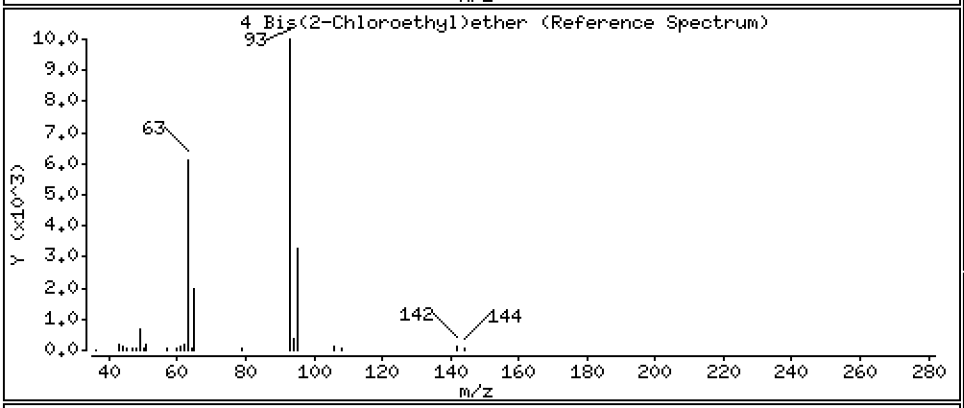
Concentration: 5.377 ug/mL

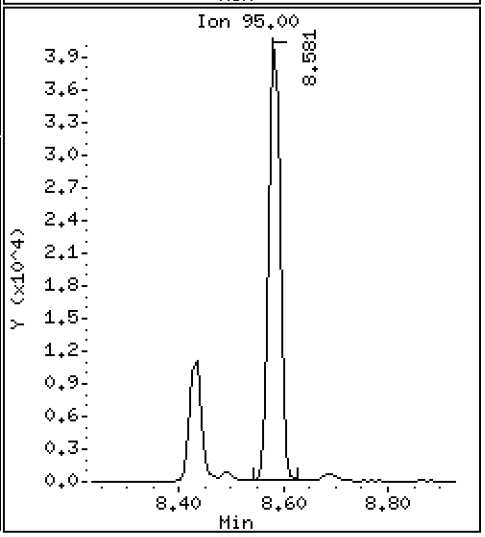


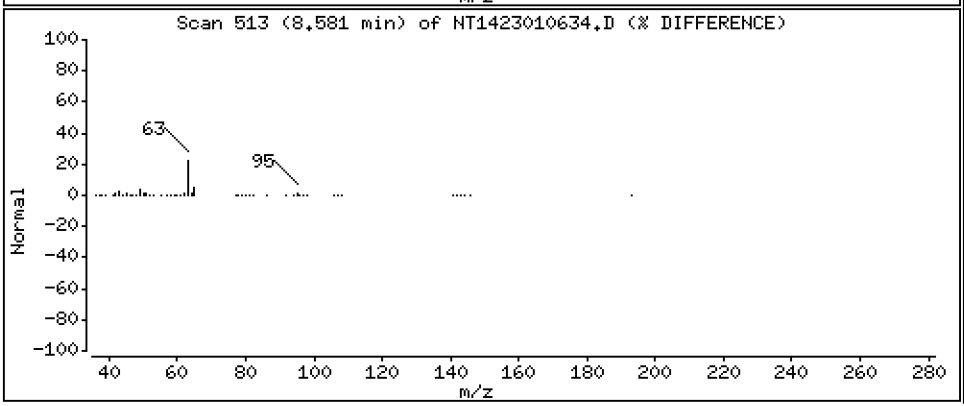












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

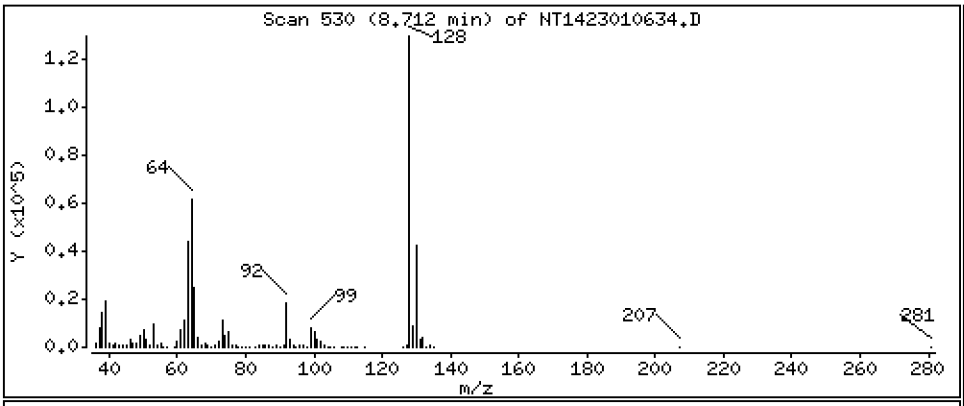
Operator: VTS

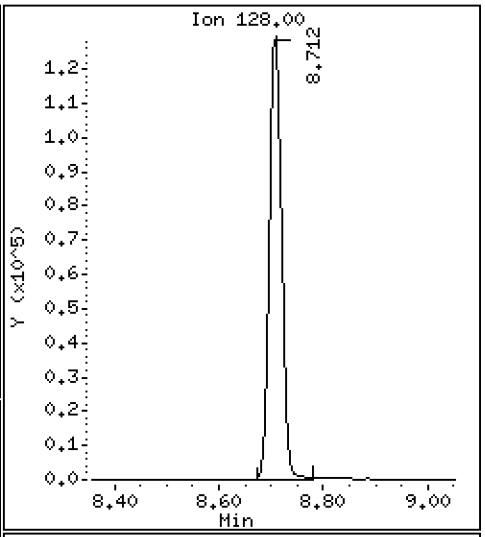
Column phase: ZB-5msi

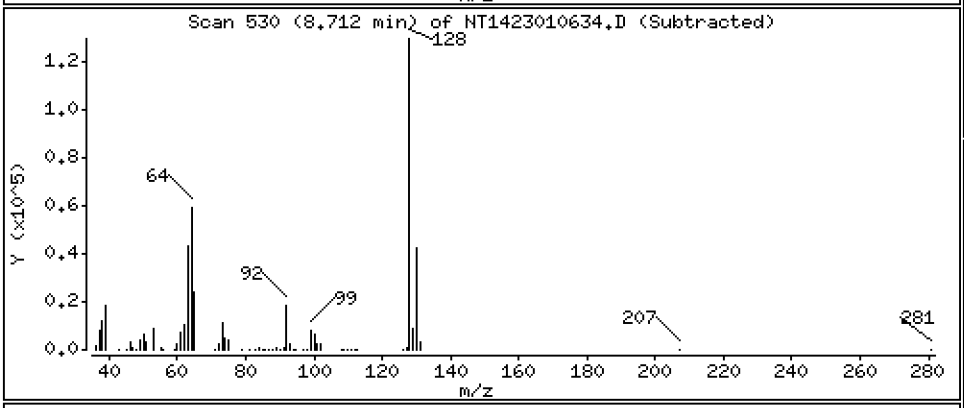
Column diameter: 0.25

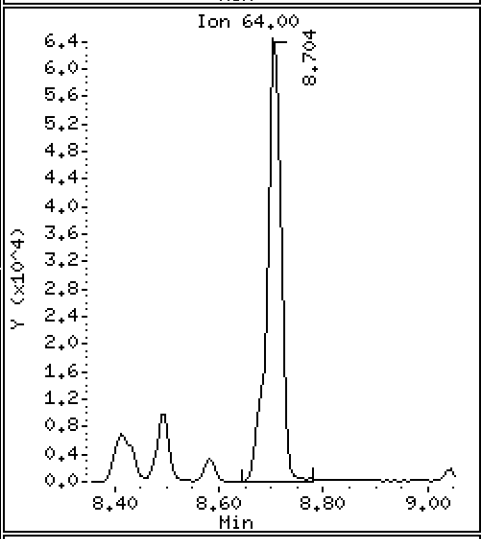
6 2-Chlorophenol

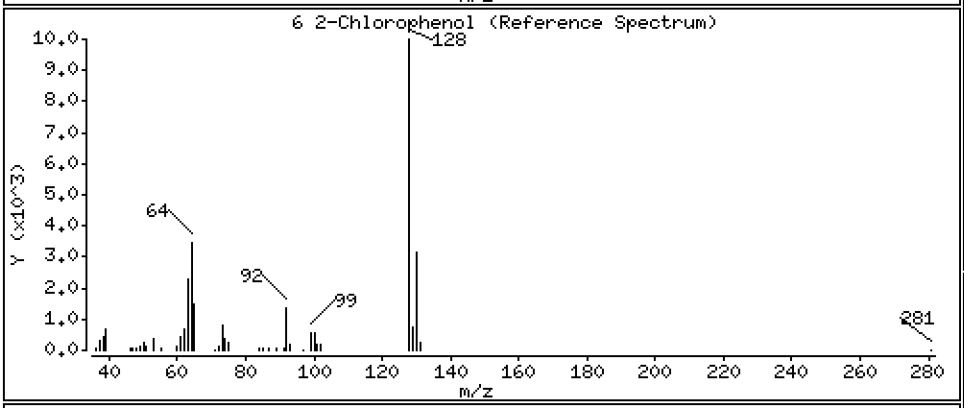
Concentration: 5.171 ug/mL

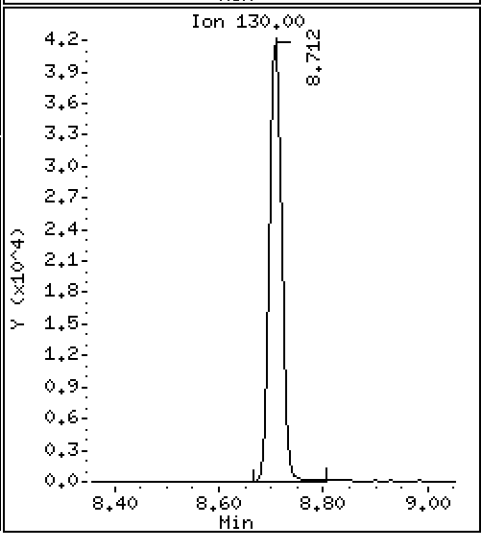


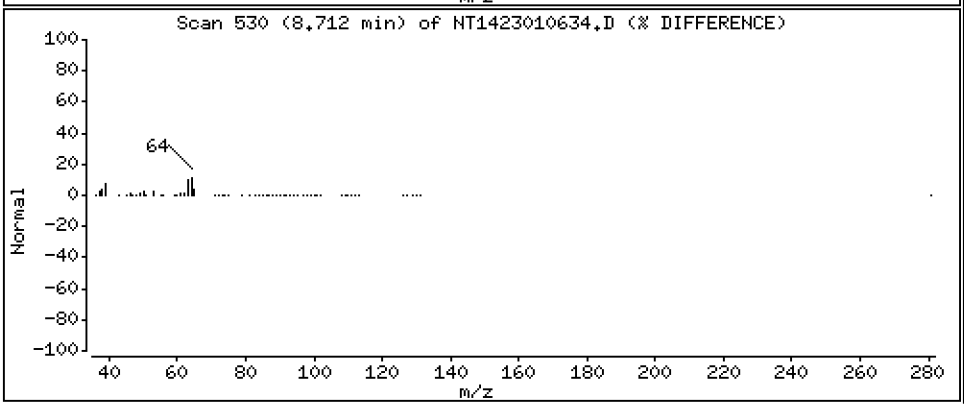












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

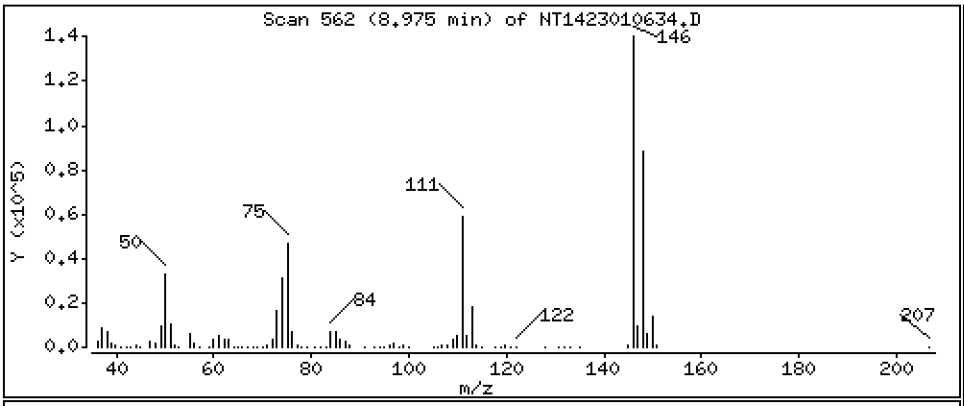
Operator: VTS

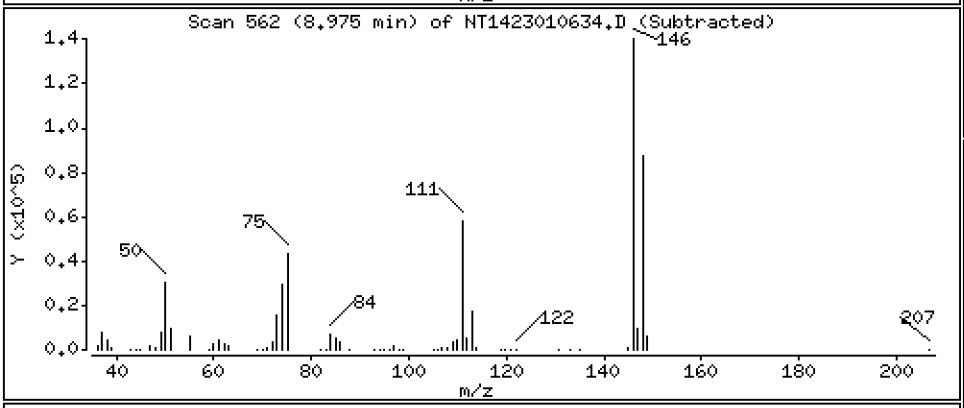
Column phase: ZB-5msi

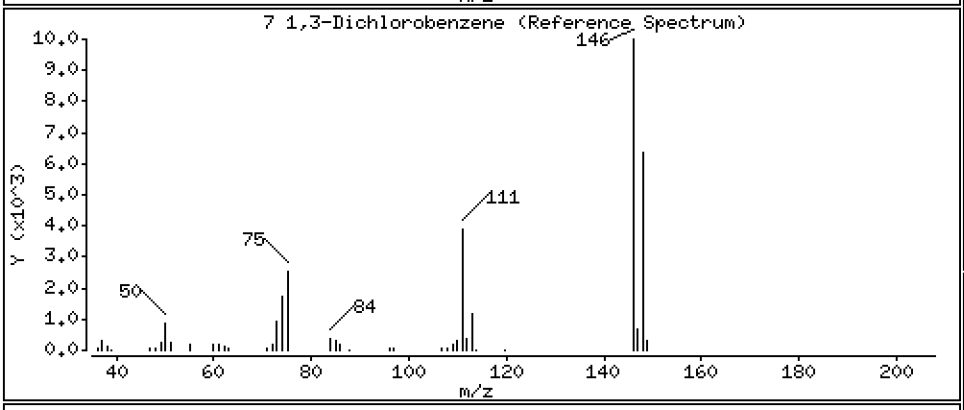
Column diameter: 0.25

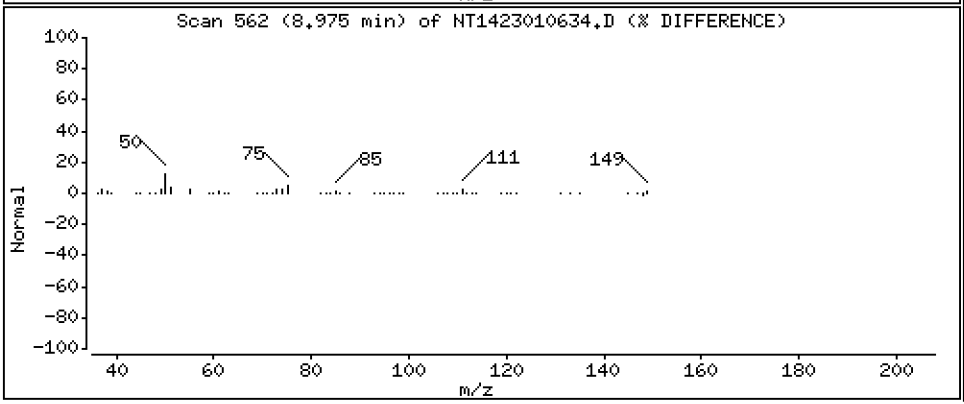
7 1,3-Dichlorobenzene

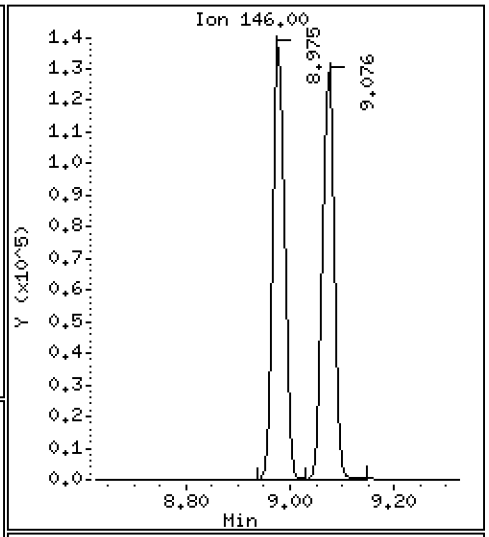
Concentration: 5.143 ug/mL

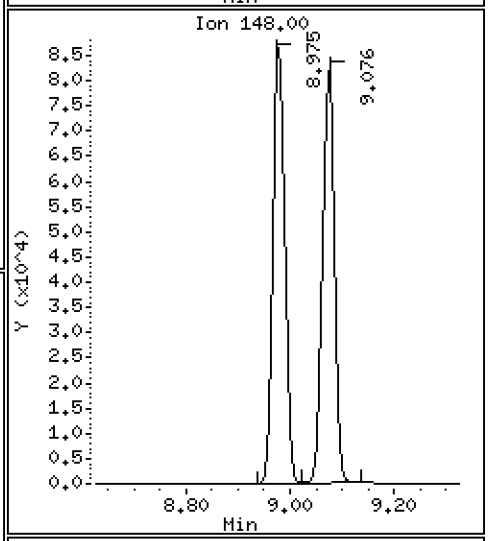


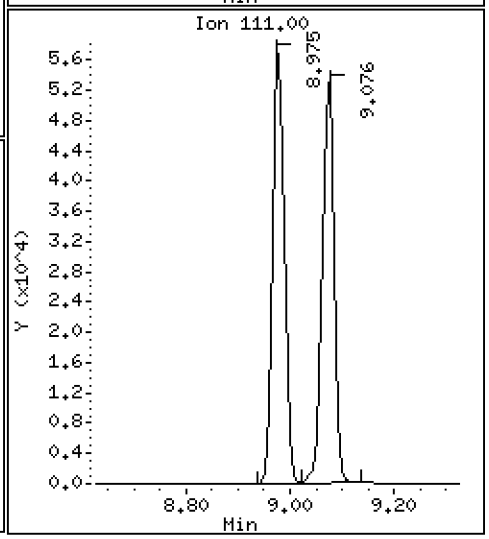












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

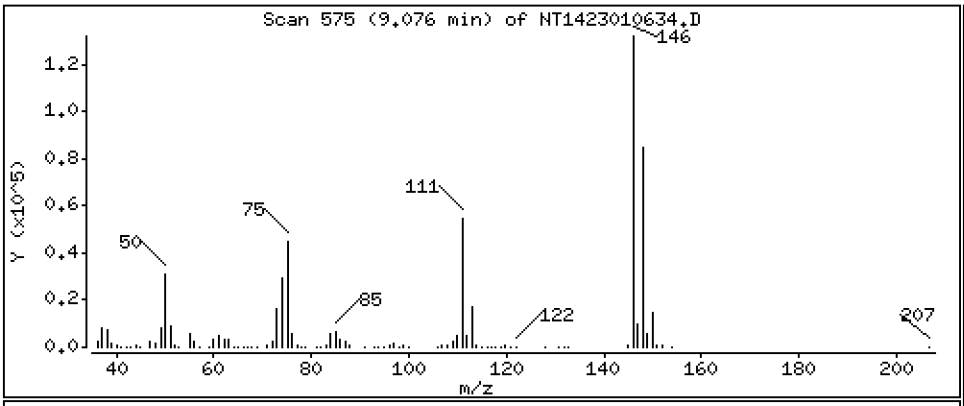
Operator: VTS

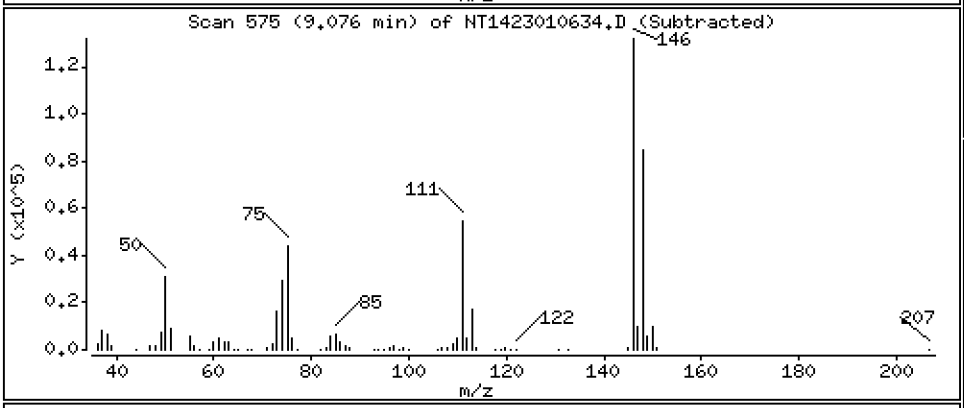
Column phase: ZB-5msi

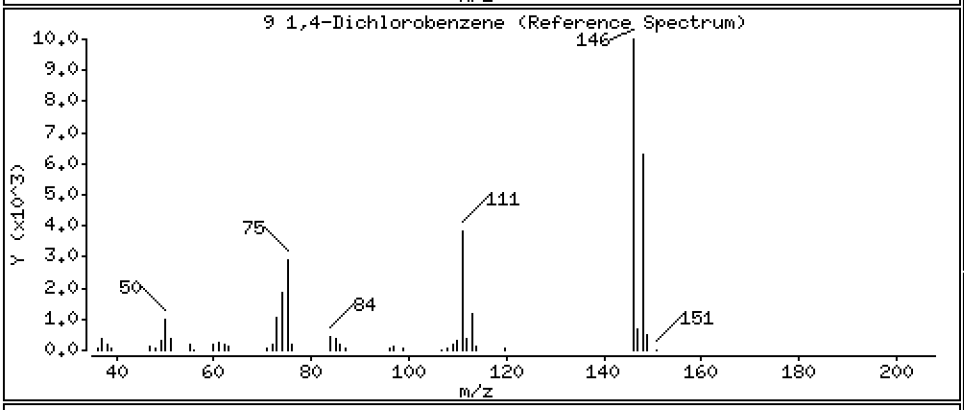
Column diameter: 0.25

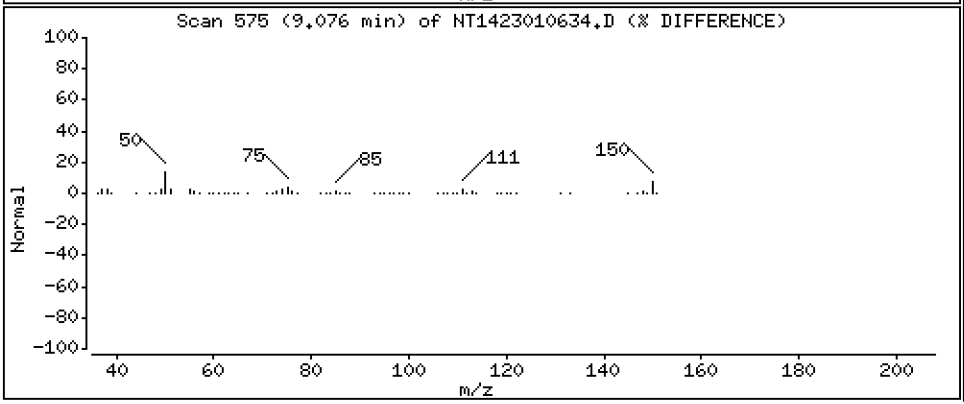
9 1,4-Dichlorobenzene

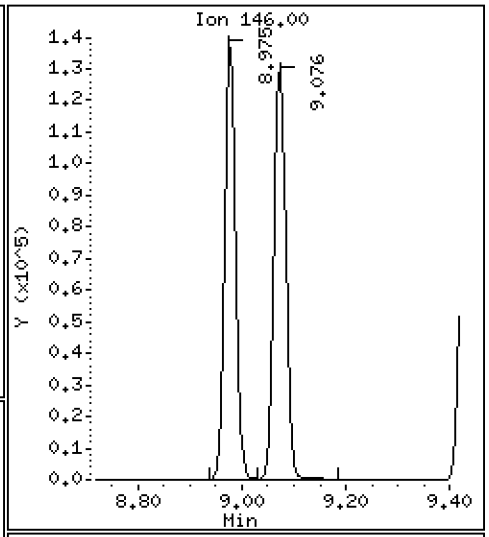
Concentration: 5.697 ug/mL

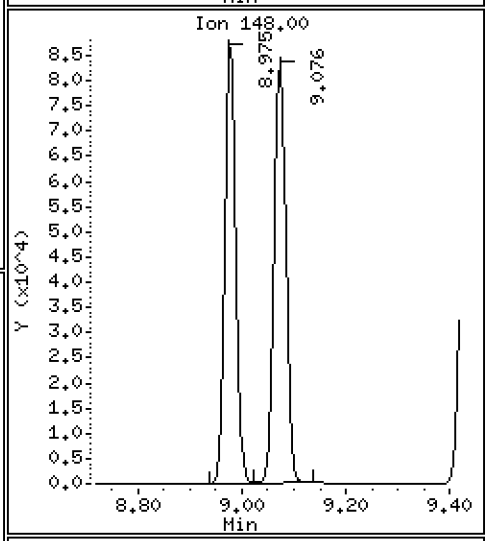


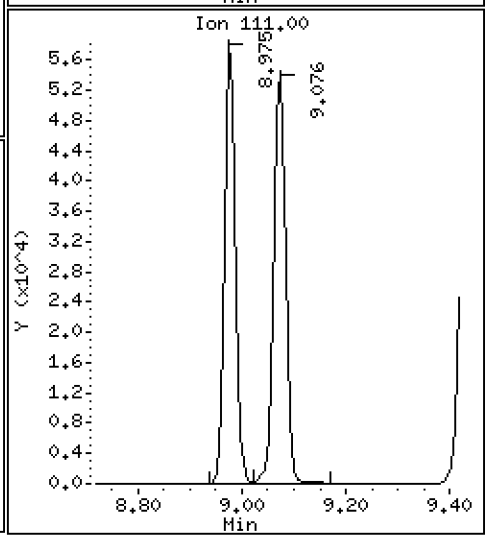












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

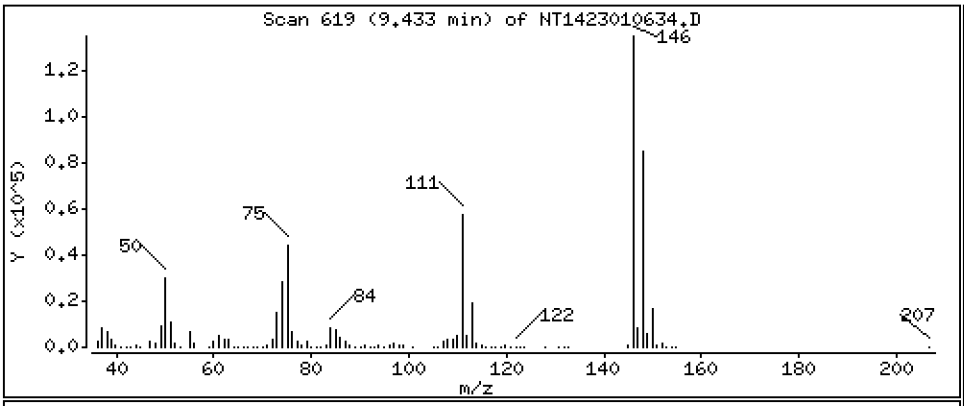
Operator: VTS

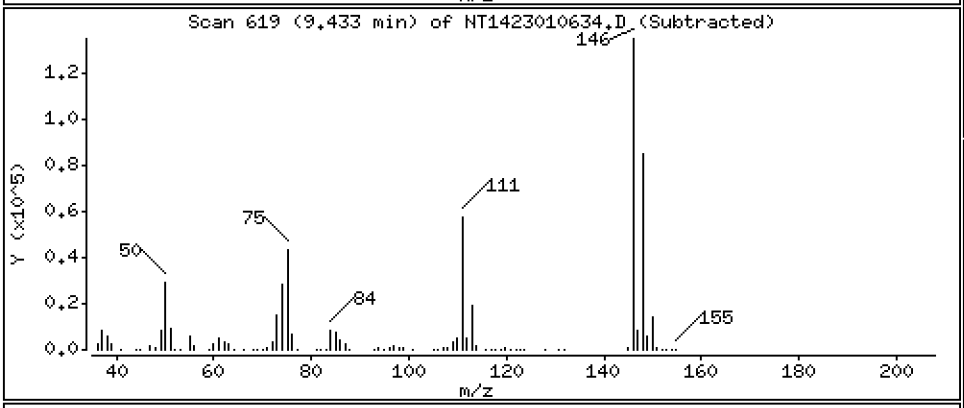
Column phase: ZB-5msi

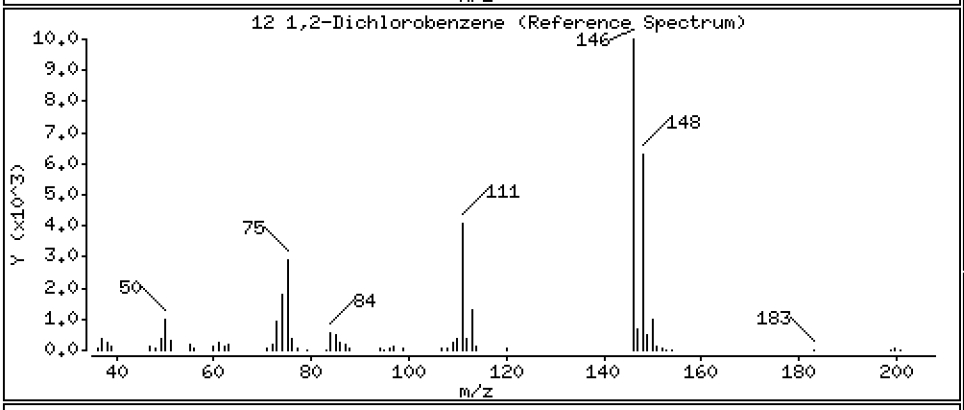
Column diameter: 0.25

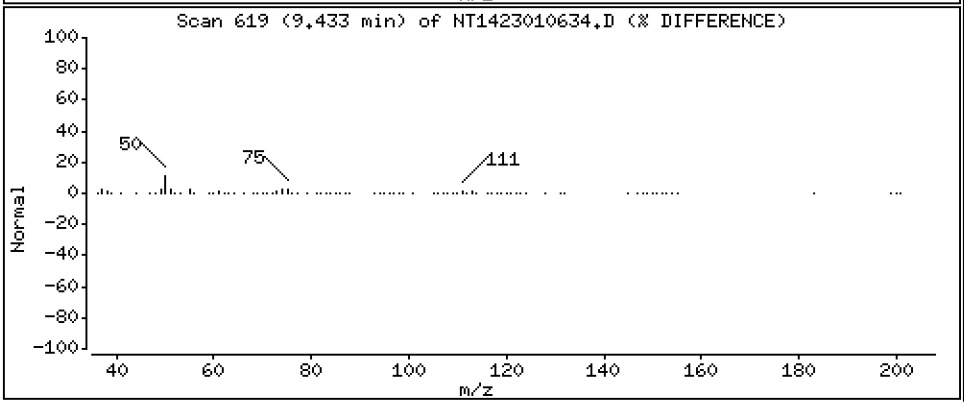
12 1,2-Dichlorobenzene

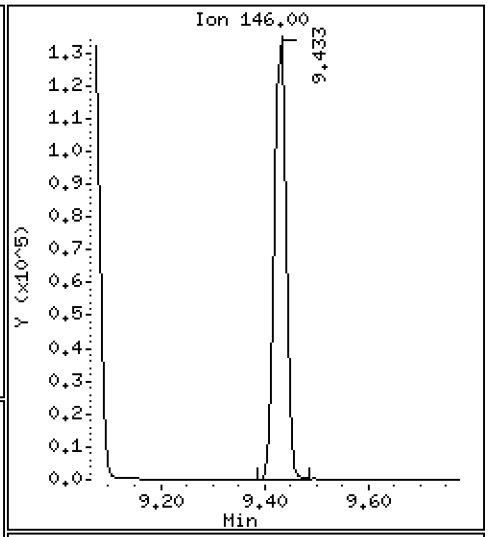
Concentration: 5.205 ug/mL

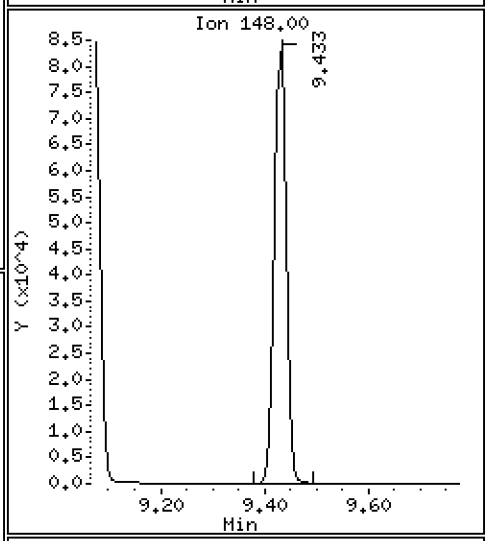


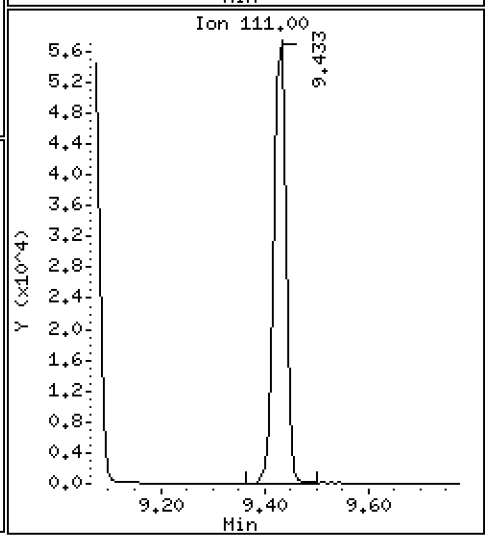












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010634.D

Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

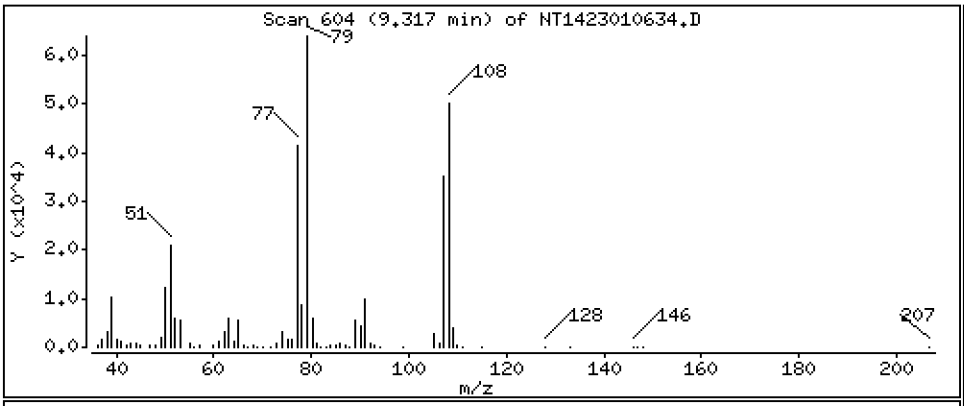
Operator: VTS

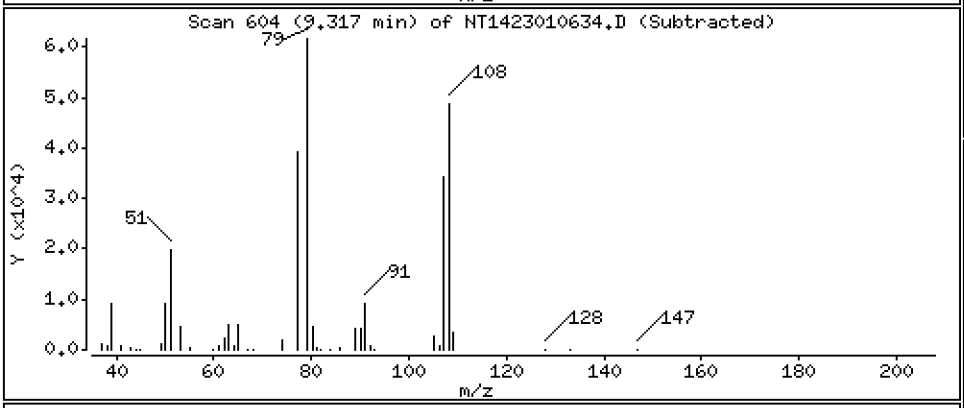
Column phase: ZB-5msi

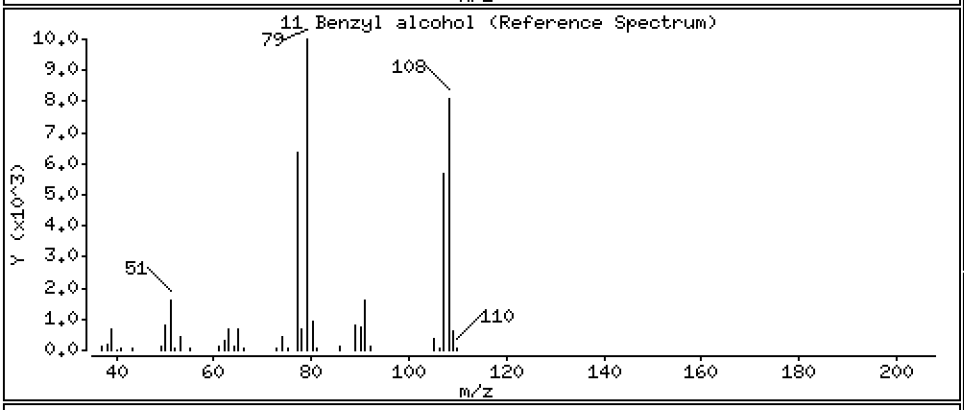
Column diameter: 0.25

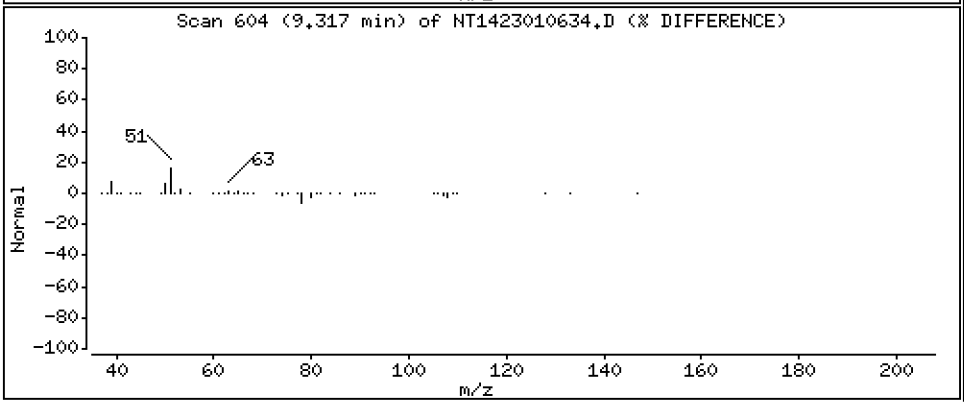
11 Benzyl alcohol

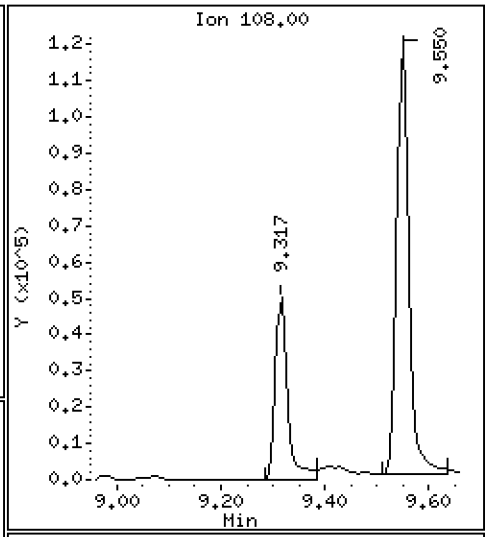
Concentration: 3.741 ug/mL

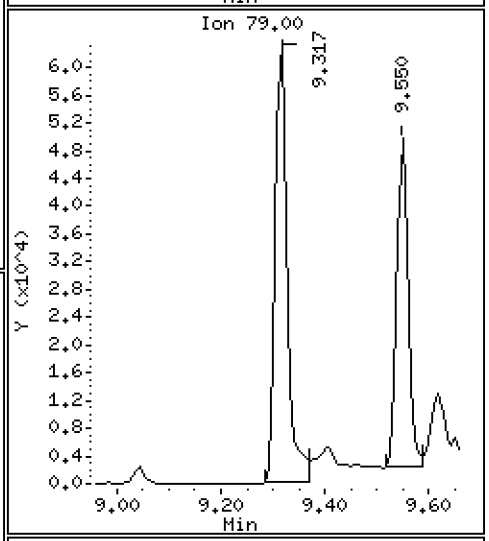


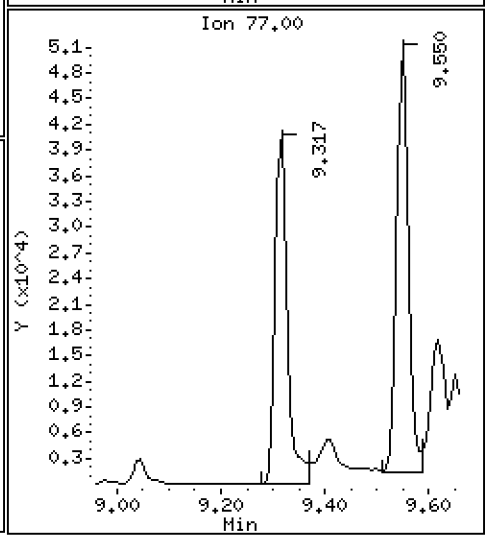












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

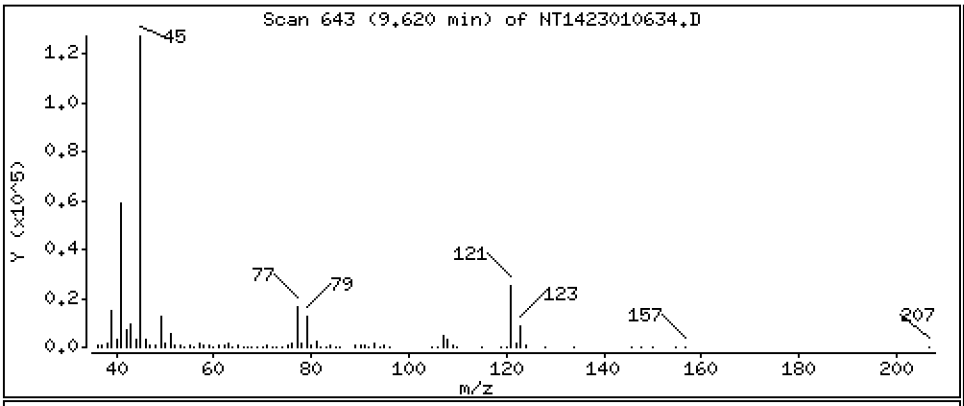
Operator: VTS

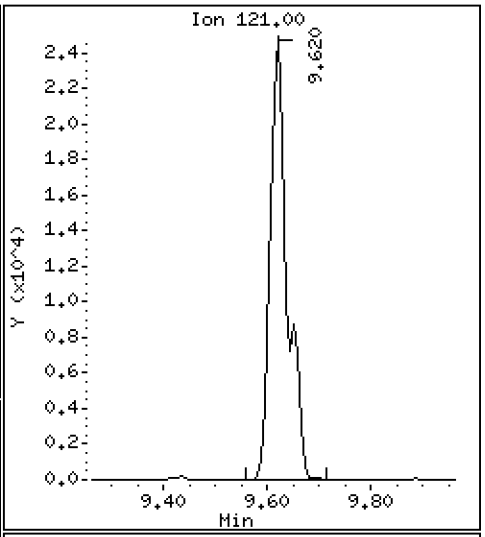
Column phase: ZB-5msi

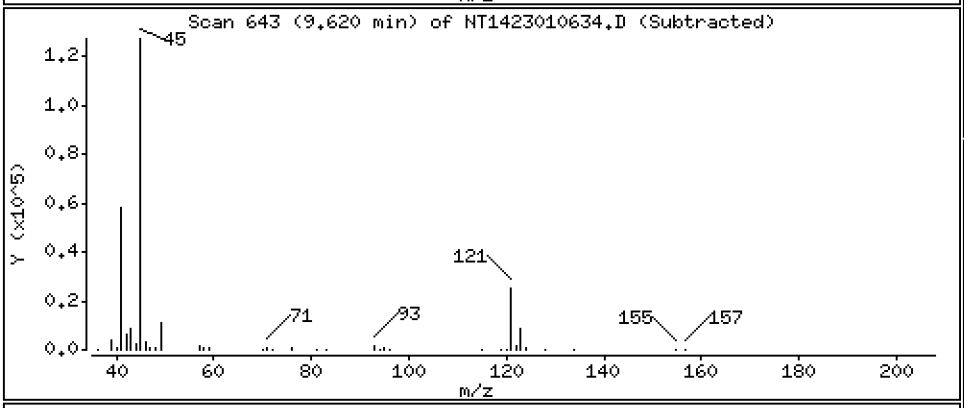
Column diameter: 0.25

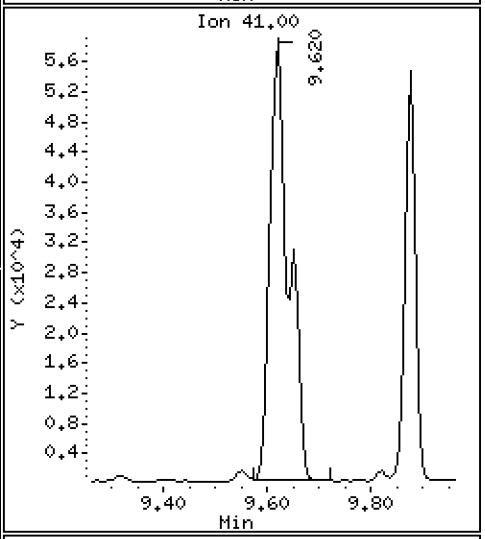
14 2,2'-oxybis(1-Chloropropane)

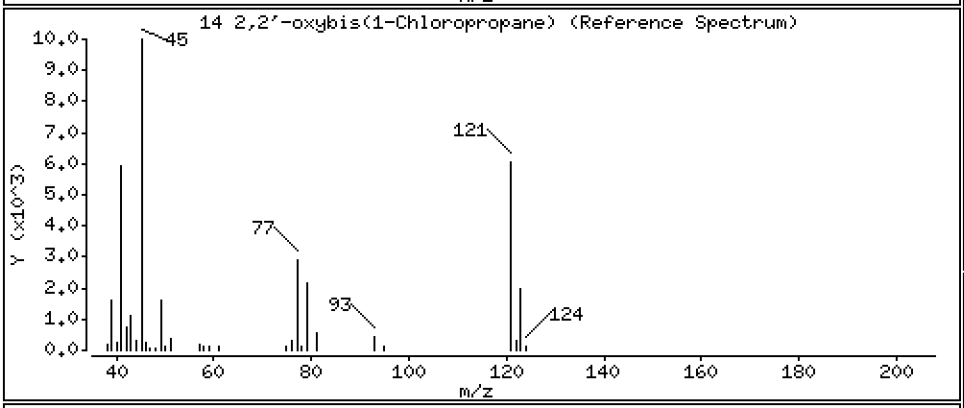
Concentration: 5.628 ug/mL

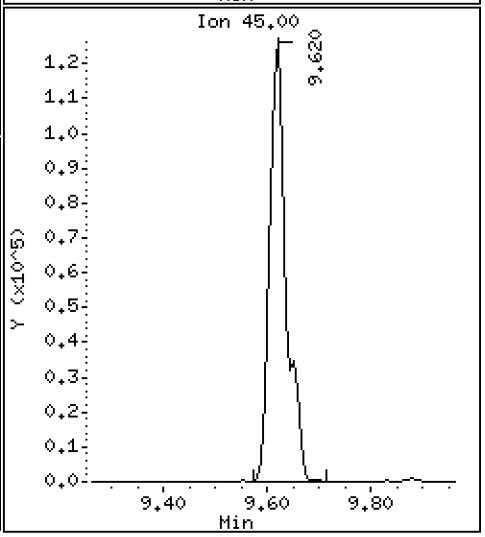


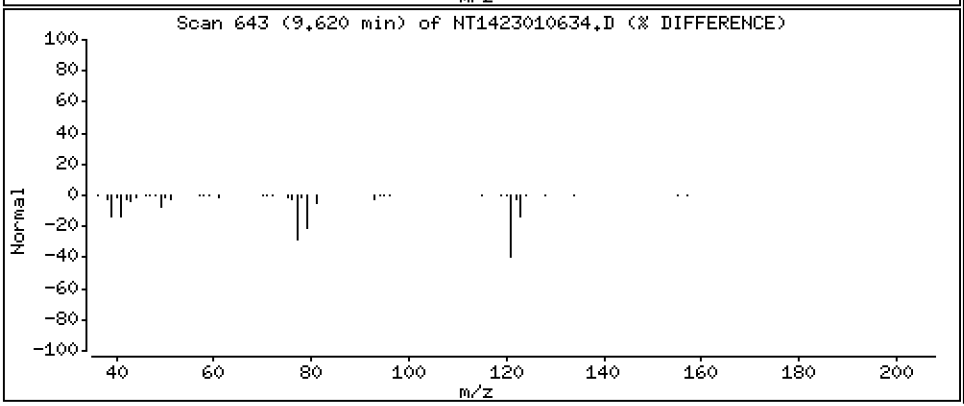












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

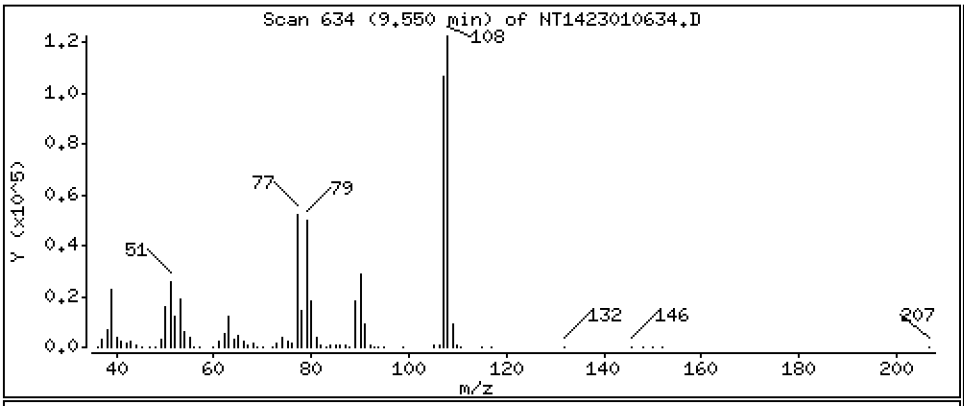
Operator: VTS

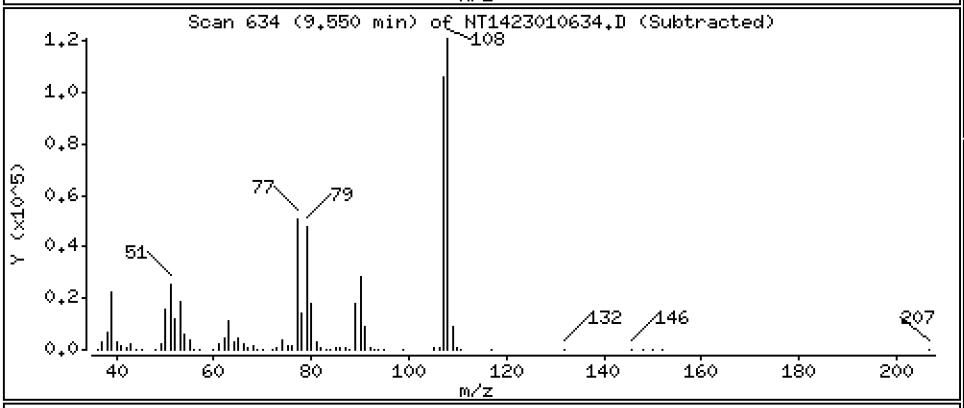
Column phase: ZB-5msi

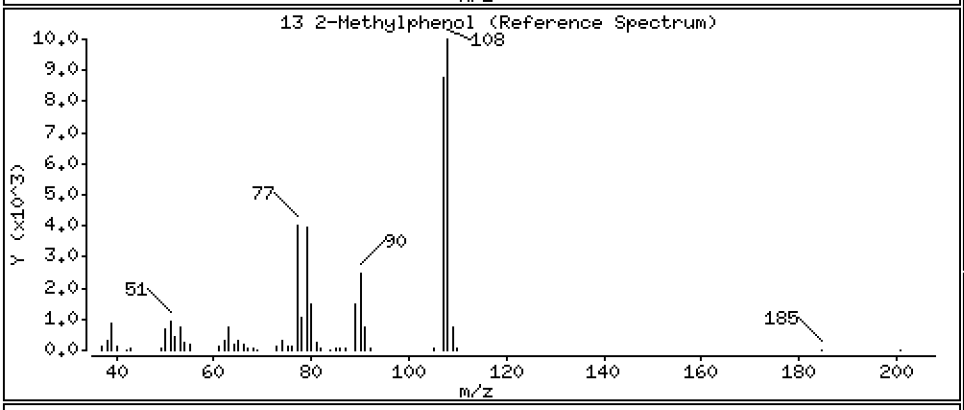
Column diameter: 0.25

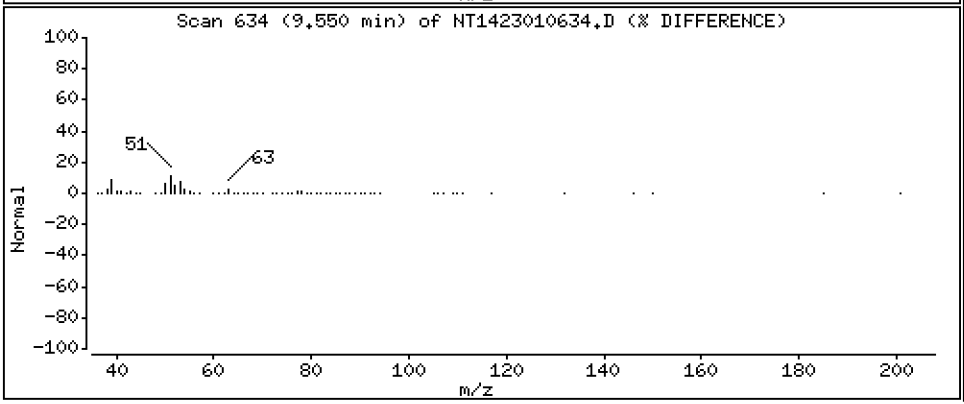
13 2-Methylphenol

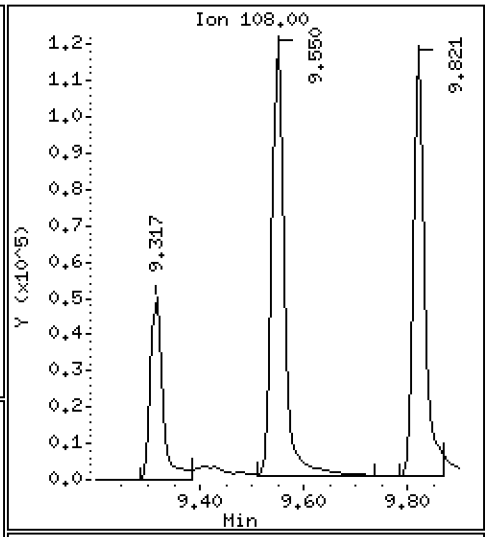
Concentration: 5.981 ug/mL

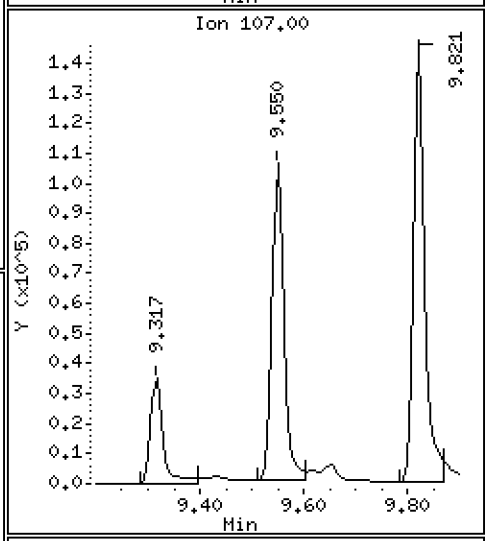


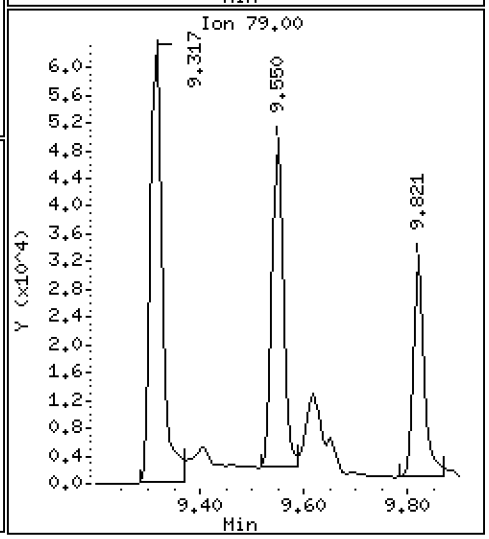












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

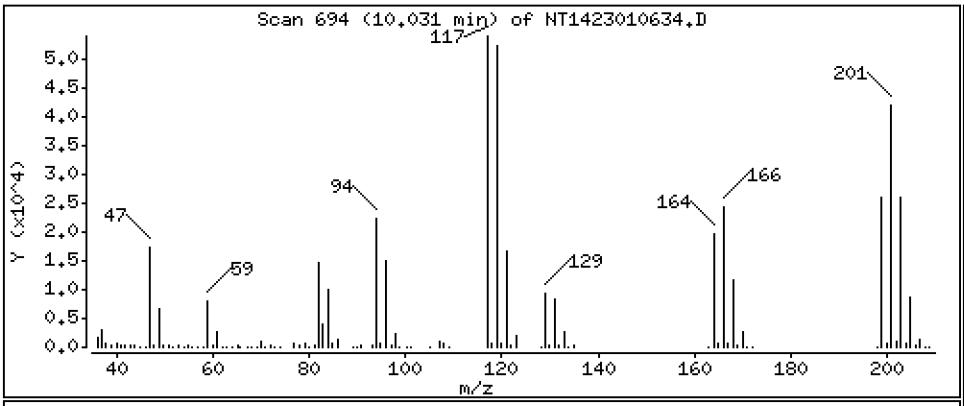
Operator: VTS

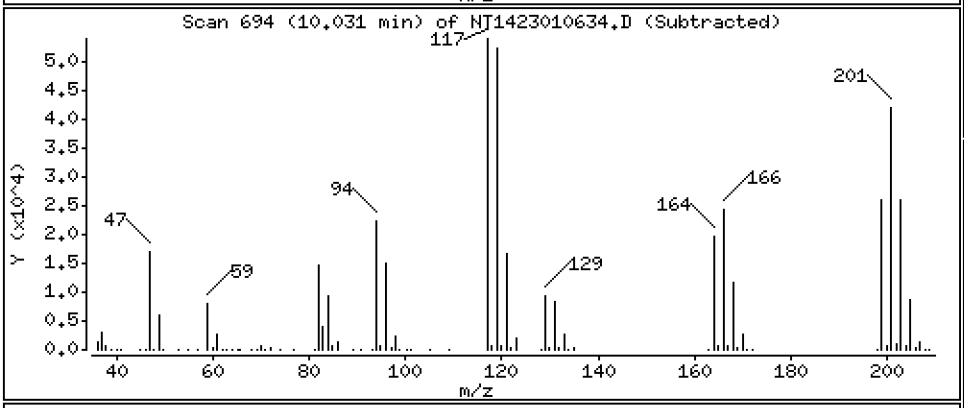
Column phase: ZB-5msi

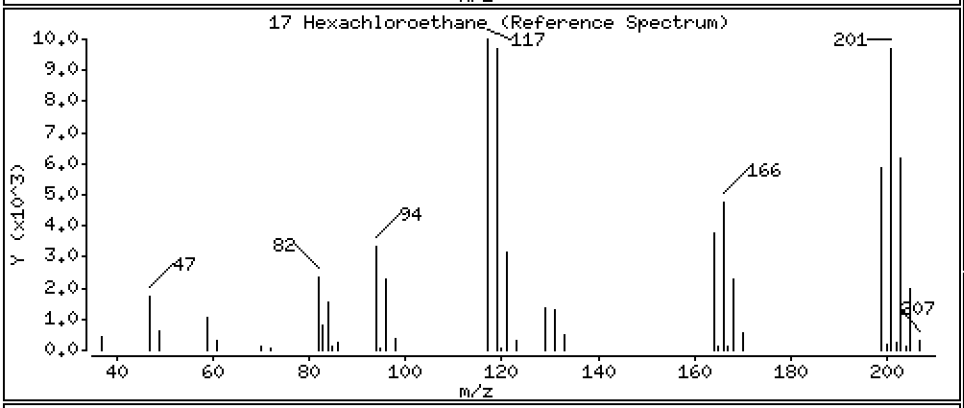
Column diameter: 0.25

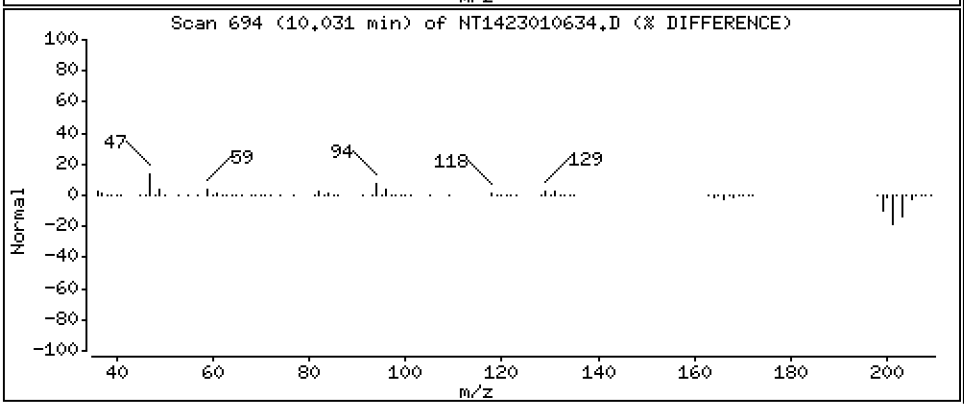
17 Hexachloroethane

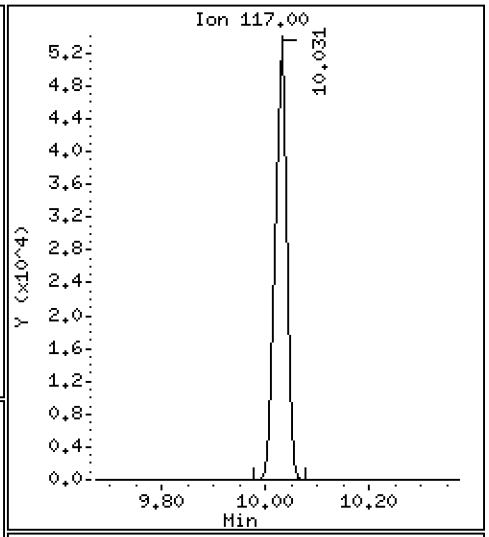
Concentration: 5.651 ug/mL

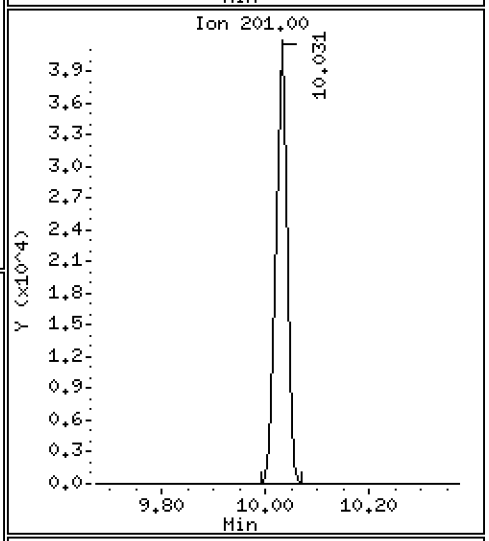


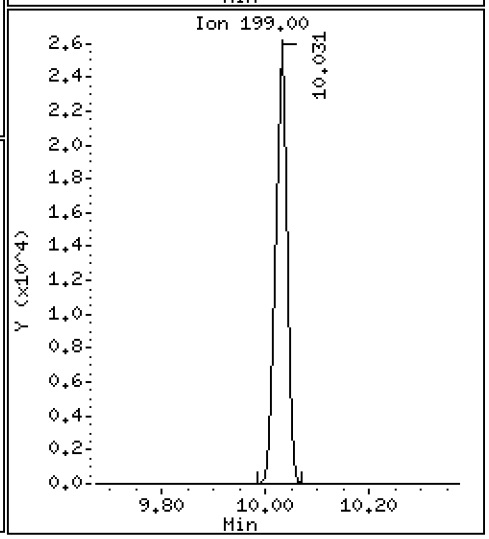












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

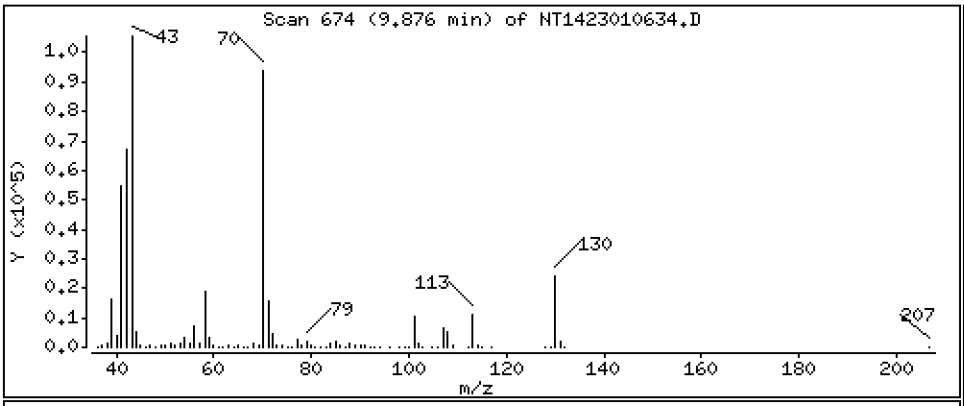
Operator: VTS

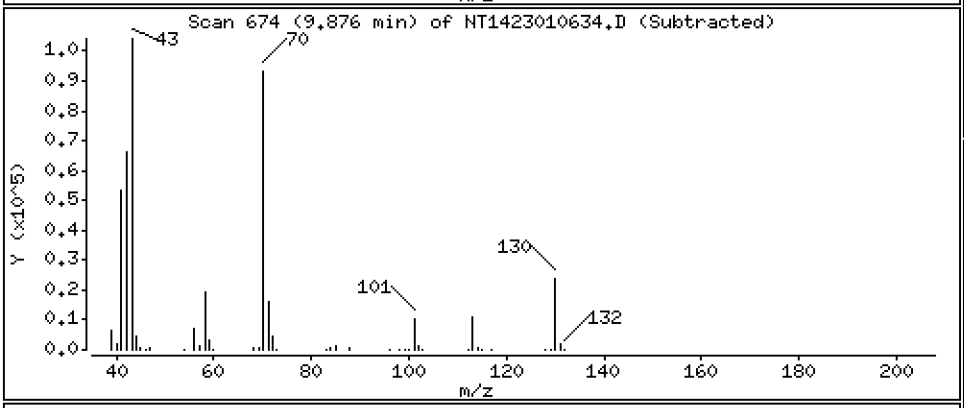
Column phase: ZB-5msi

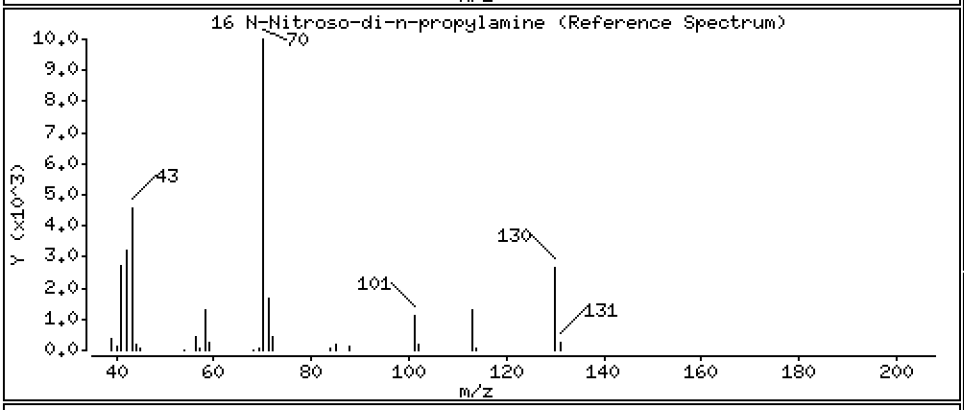
Column diameter: 0.25

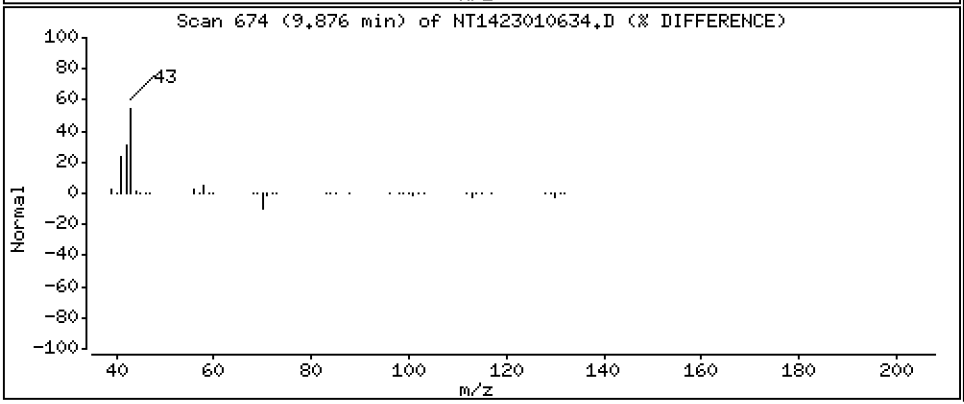
16 N-Nitroso-di-n-propylamine

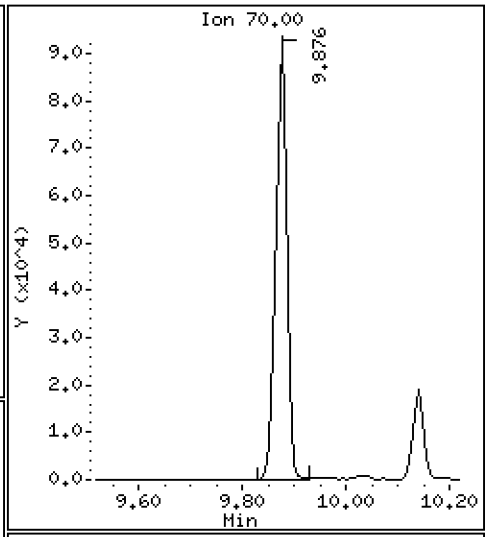
Concentration: 6.345 ug/mL

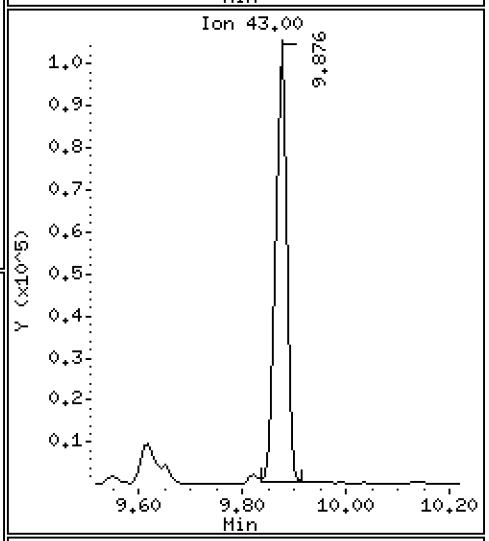


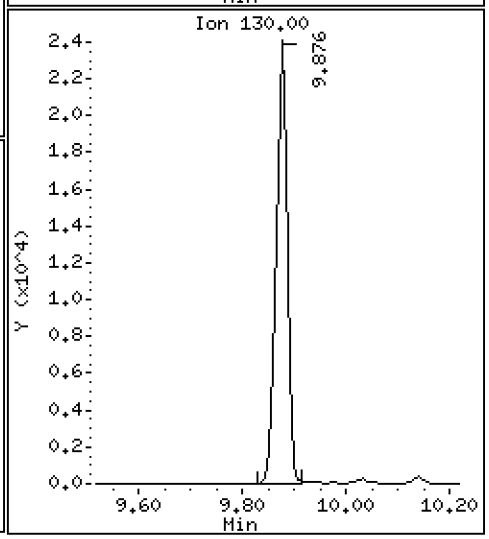












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

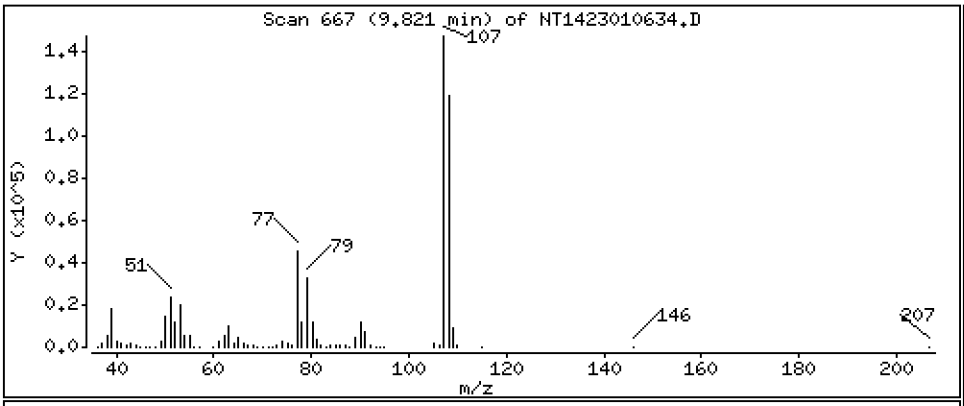
Operator: VTS

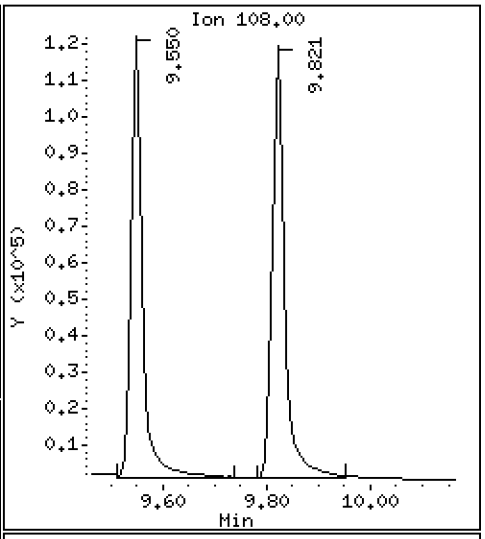
Column phase: ZB-5msi

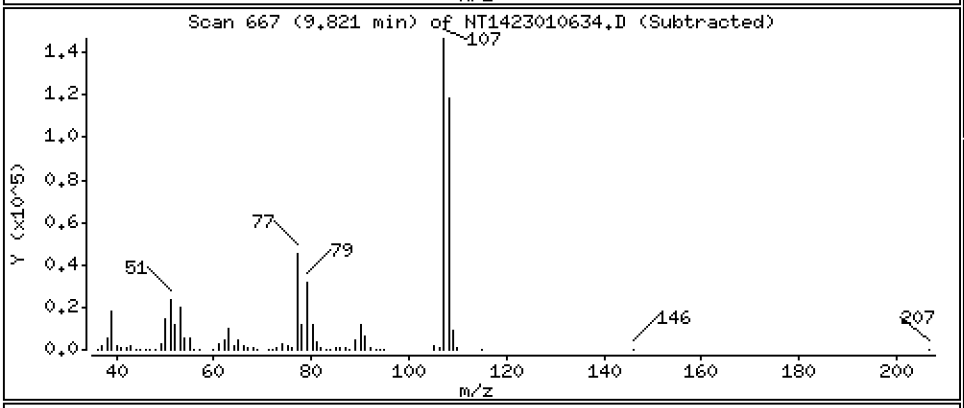
Column diameter: 0.25

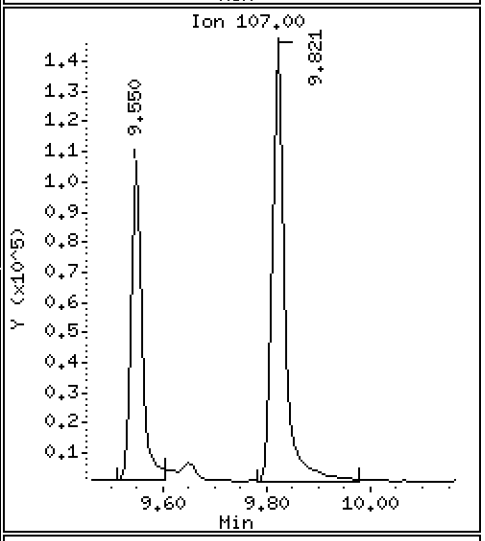
15 4-Methylphenol

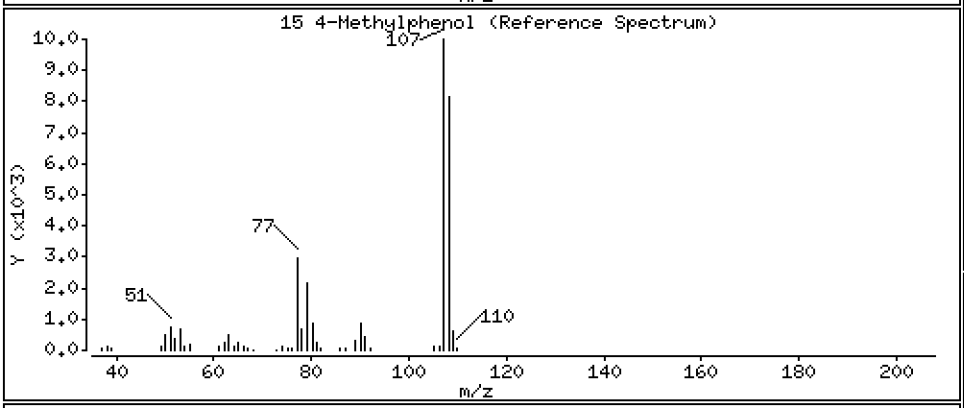
Concentration: 5.302 ug/mL

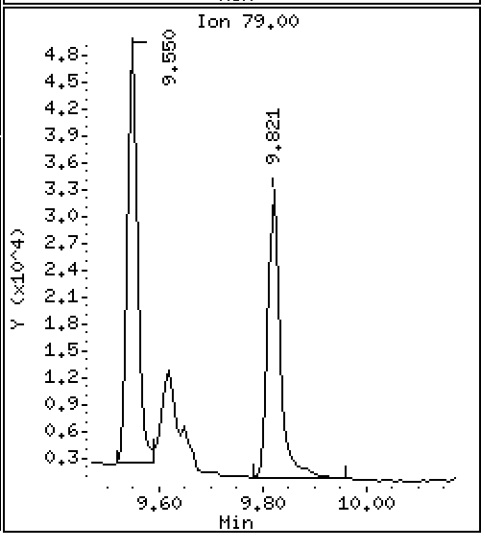


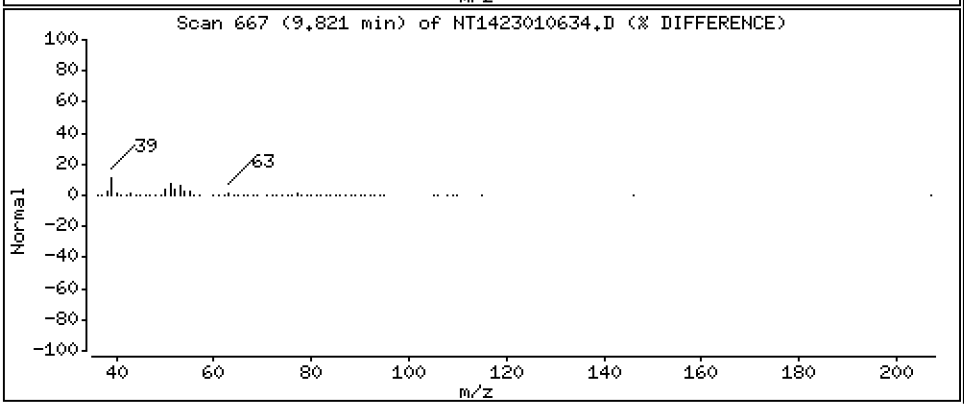












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

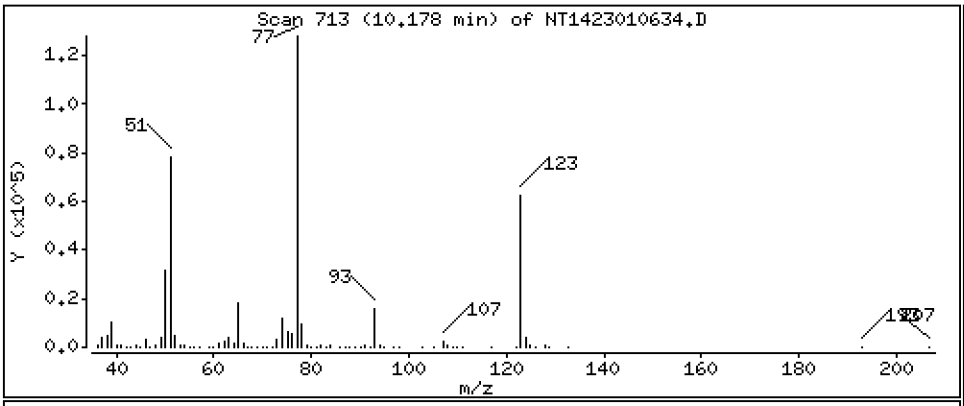
Operator: VTS

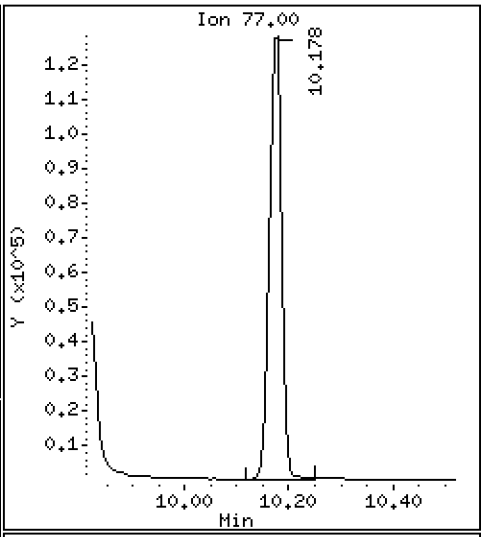
Column phase: ZB-5msi

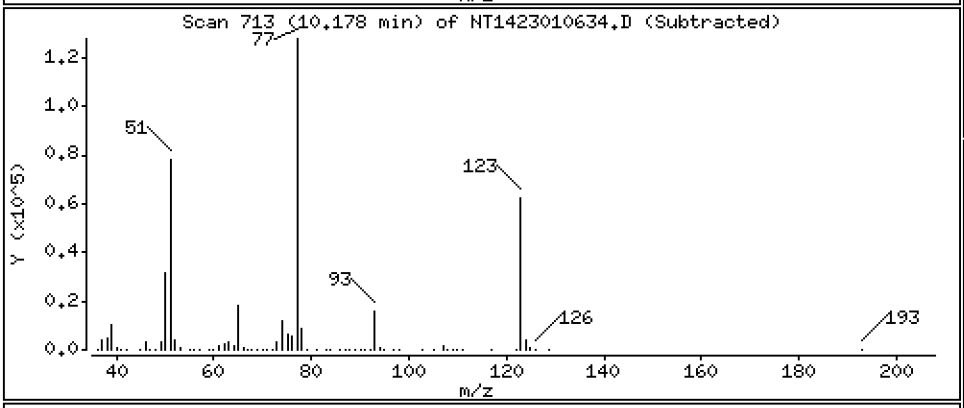
Column diameter: 0.25

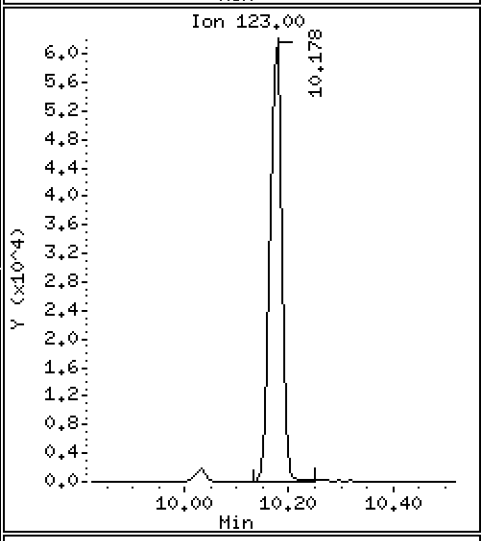
19 Nitrobenzene

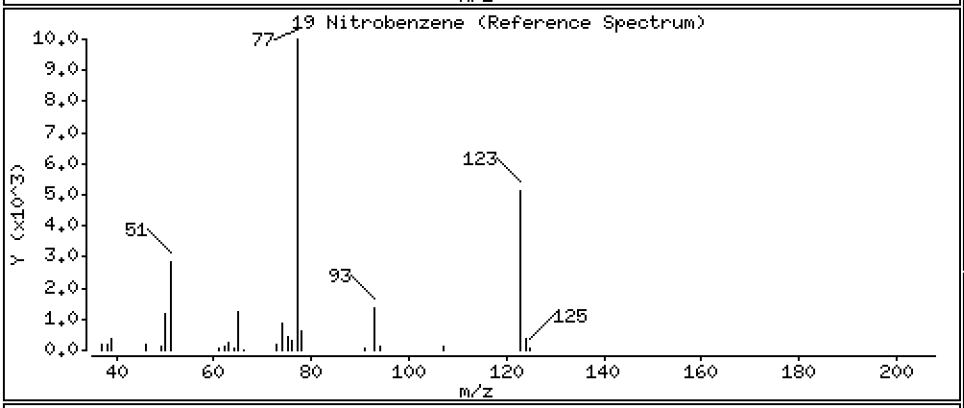
Concentration: 5.995 ug/mL

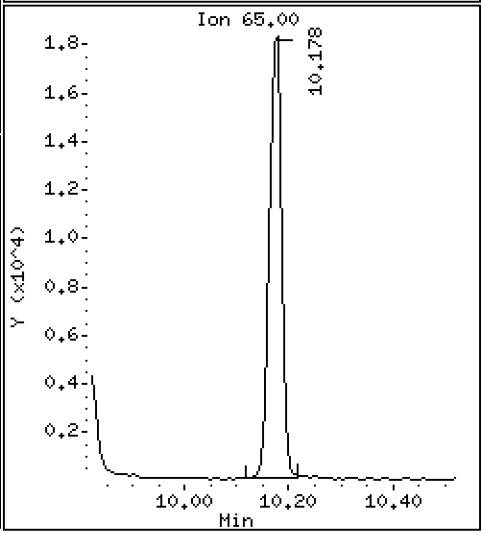


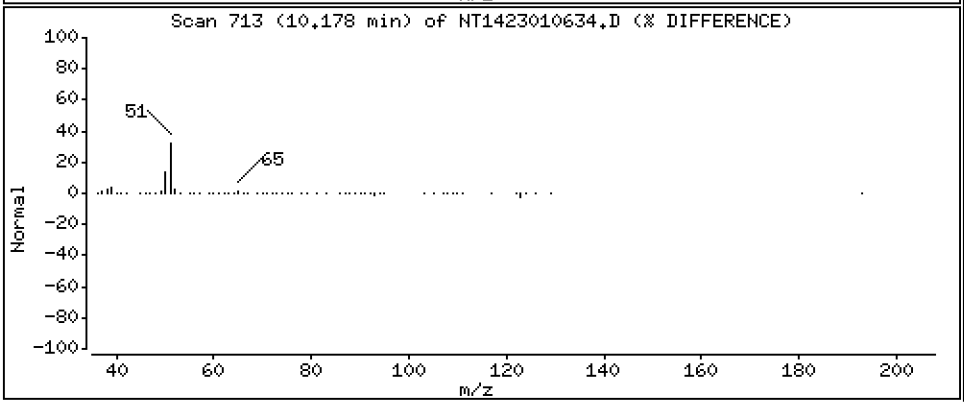












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

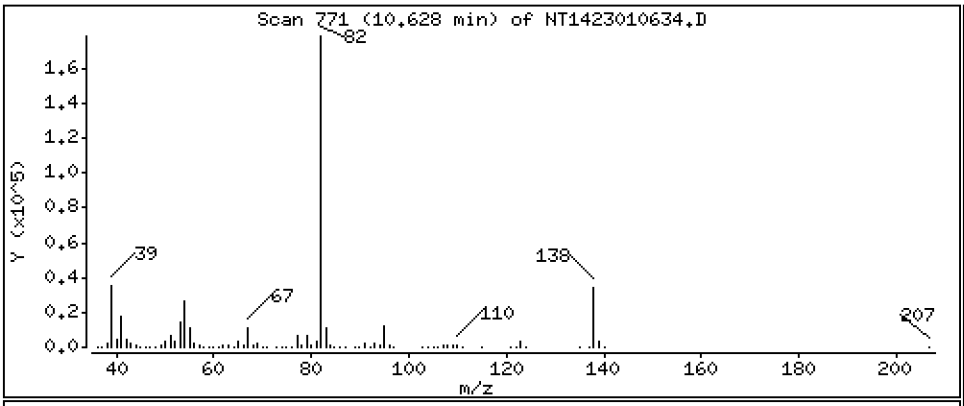
Operator: VTS

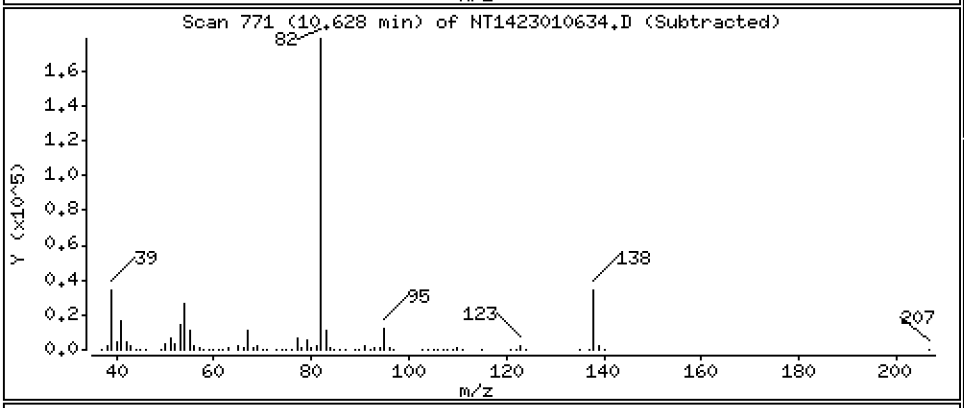
Column phase: ZB-5msi

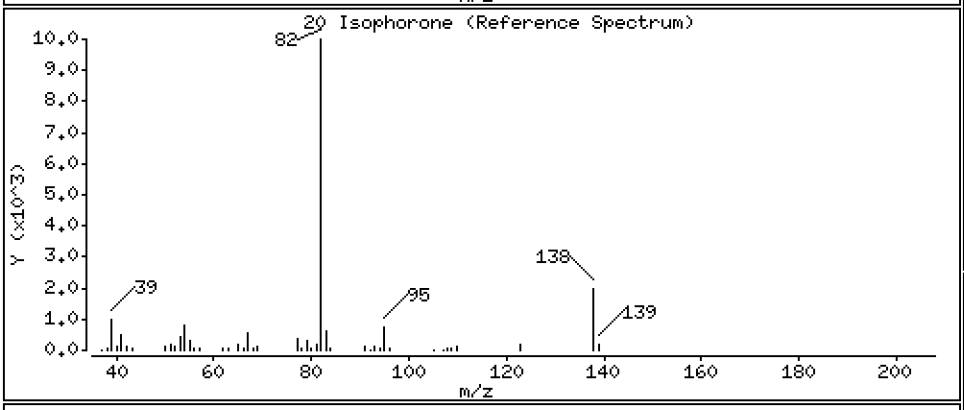
Column diameter: 0.25

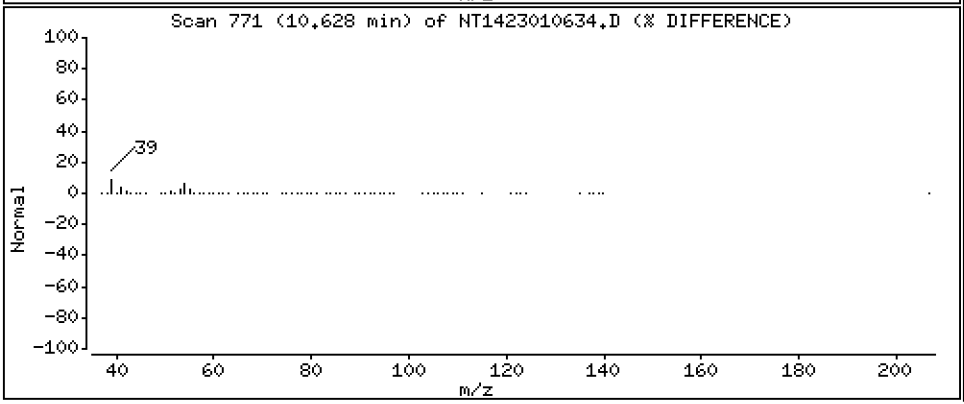
20 Isophorone

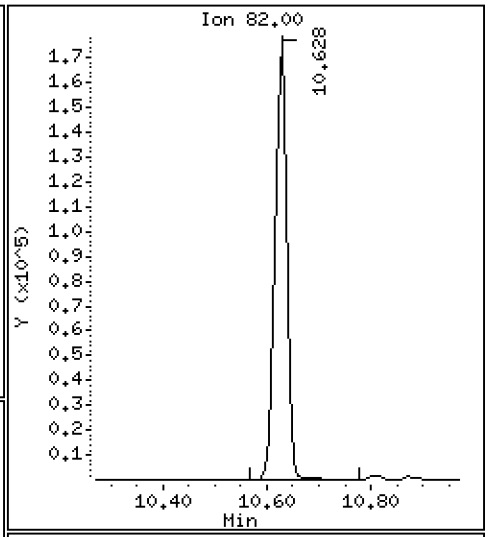
Concentration: 6.840 ug/mL

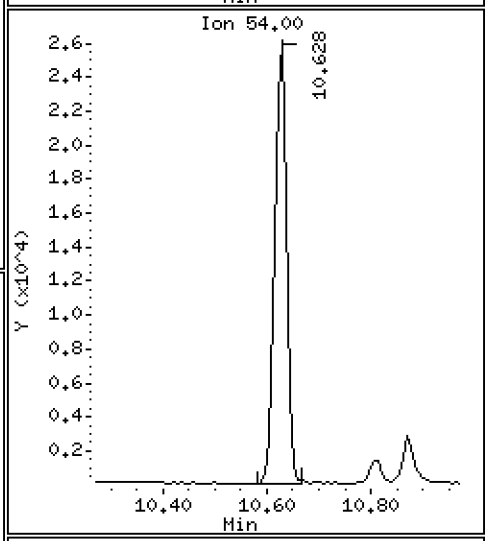


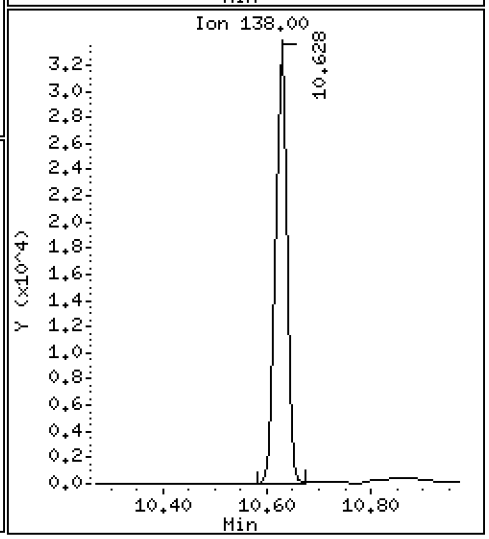












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

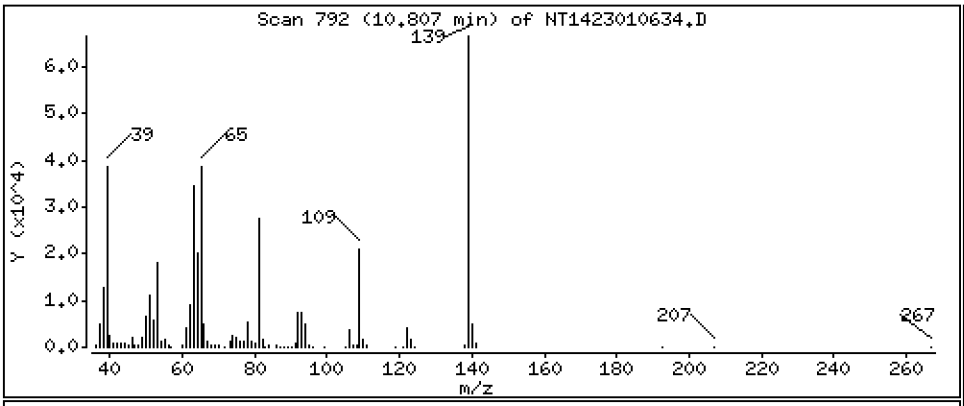
Operator: VTS

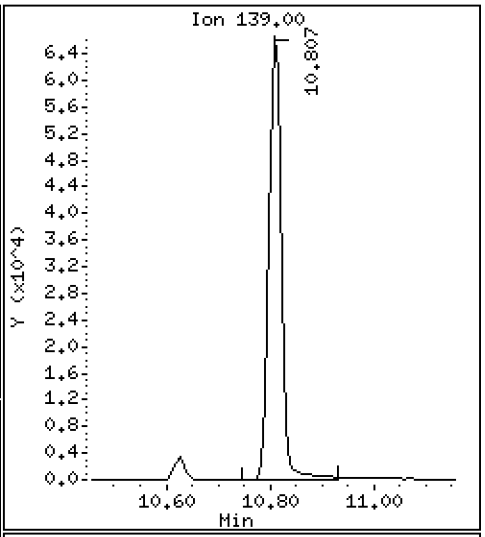
Column phase: ZB-5msi

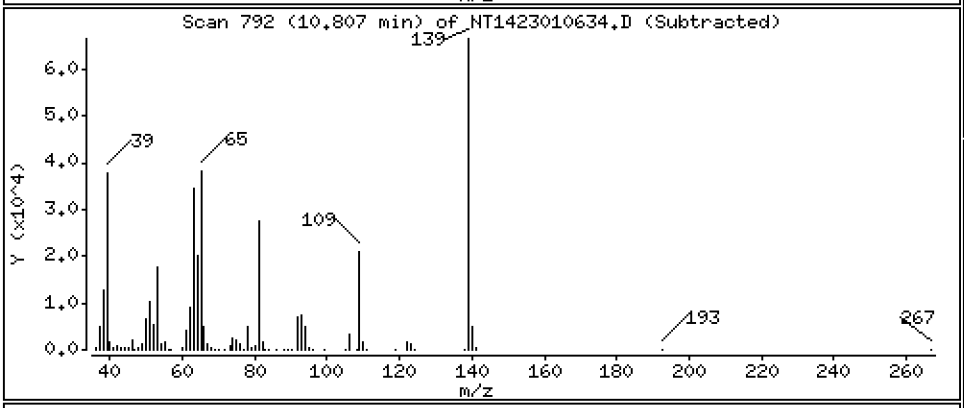
Column diameter: 0.25

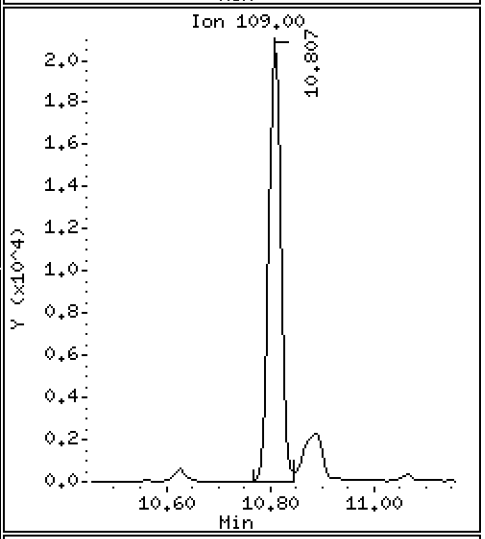
21 2-Nitrophenol

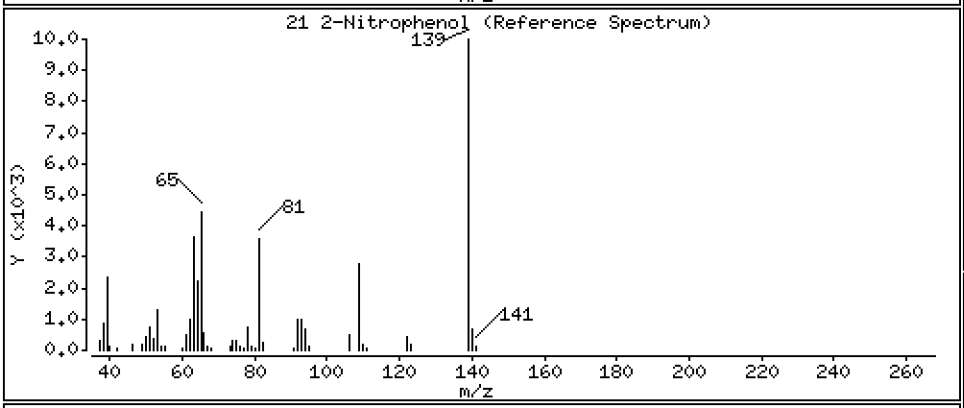
Concentration: 5.398 ug/mL

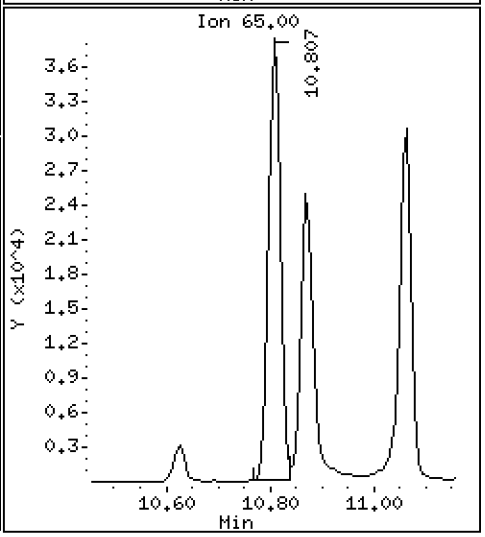


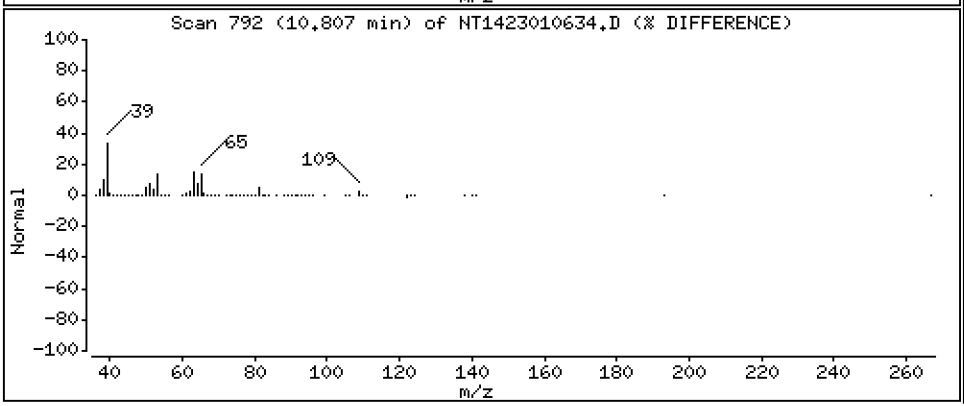












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

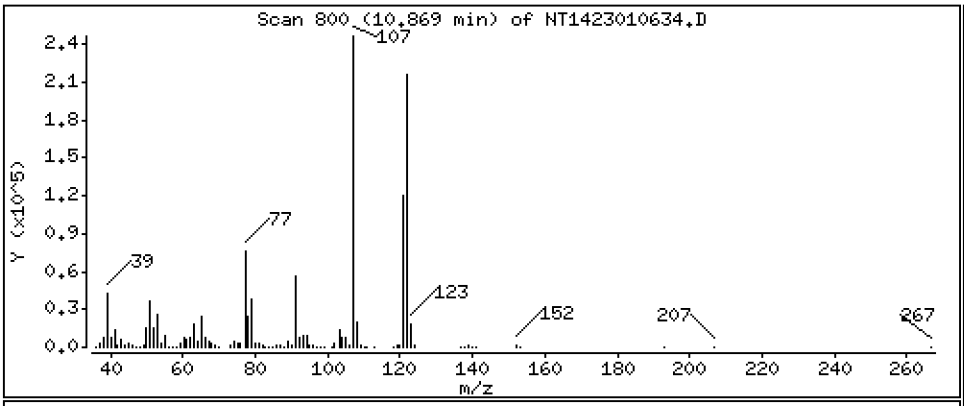
Operator: VTS

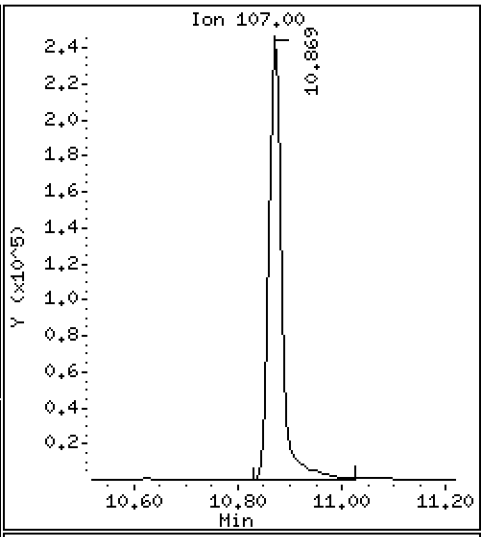
Column phase: ZB-5msi

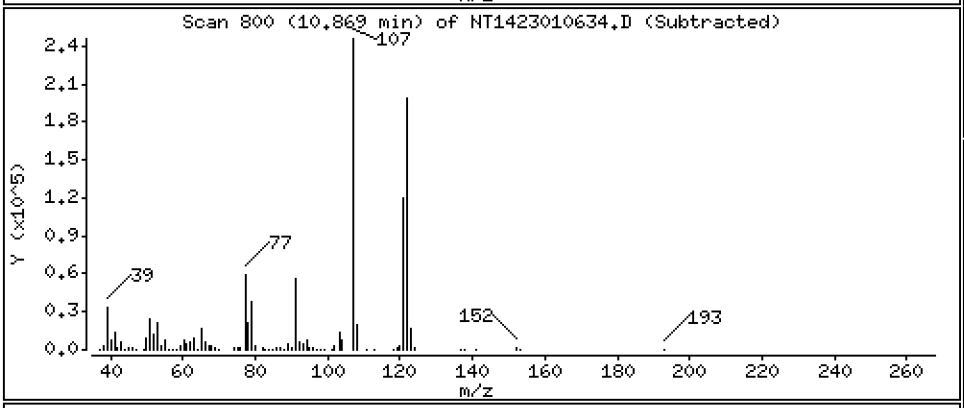
Column diameter: 0.25

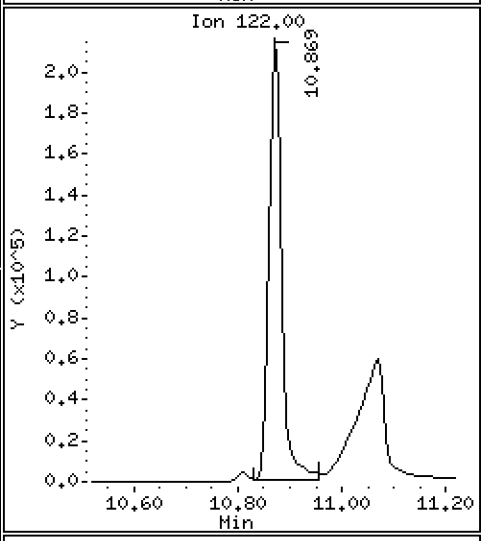
22 2,4-Dimethylphenol

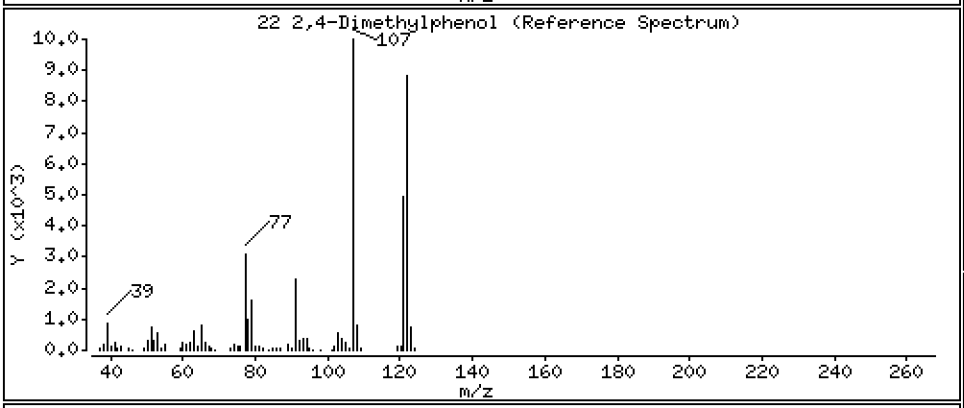
Concentration: 11.56 ug/mL

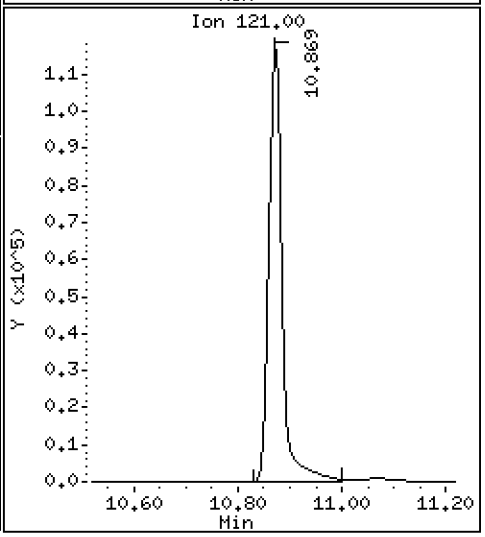


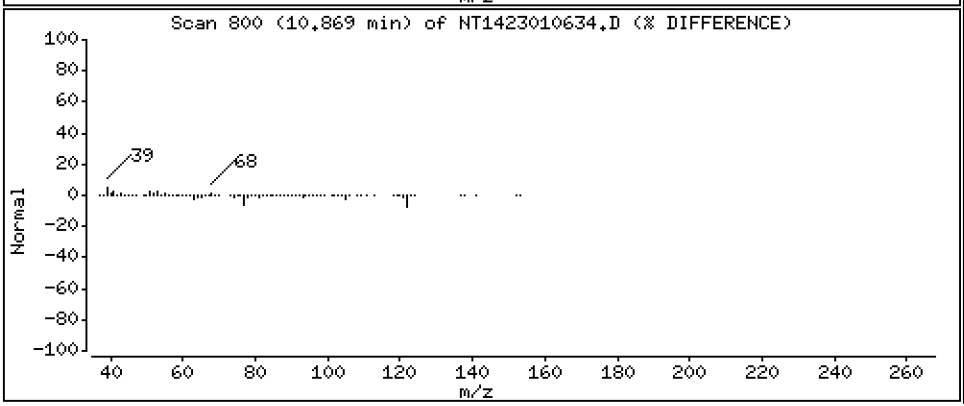












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

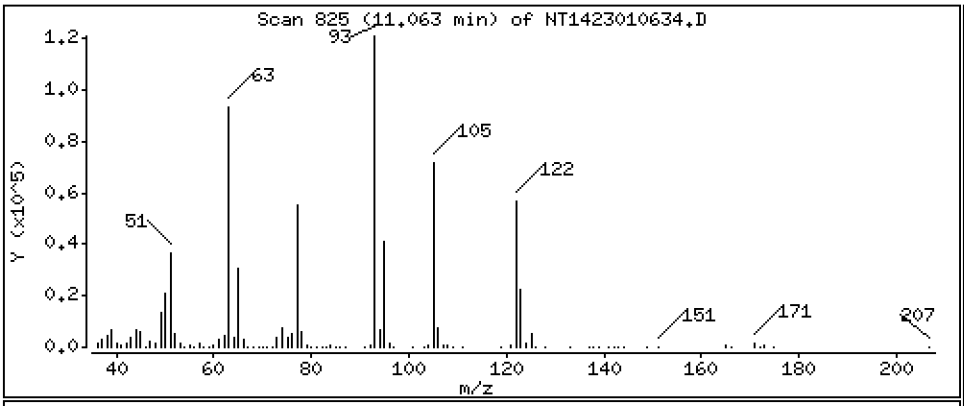
Operator: VTS

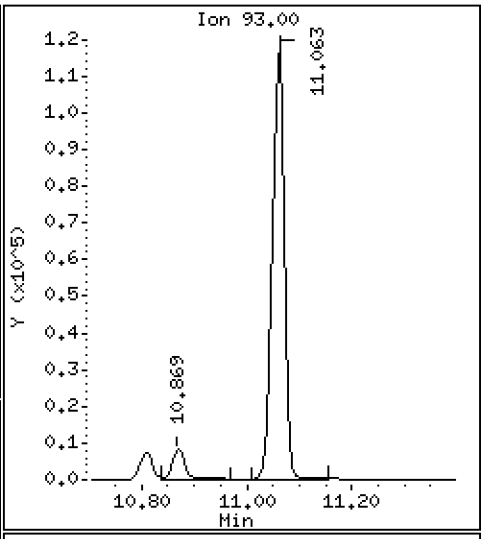
Column phase: ZB-5msi

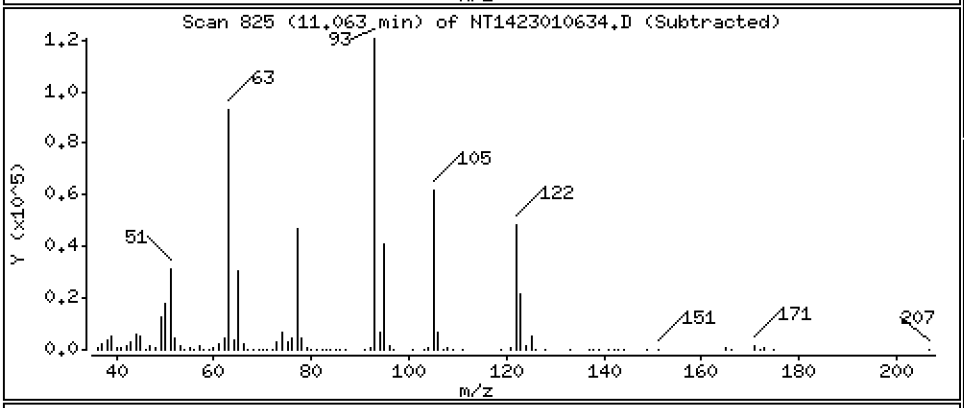
Column diameter: 0.25

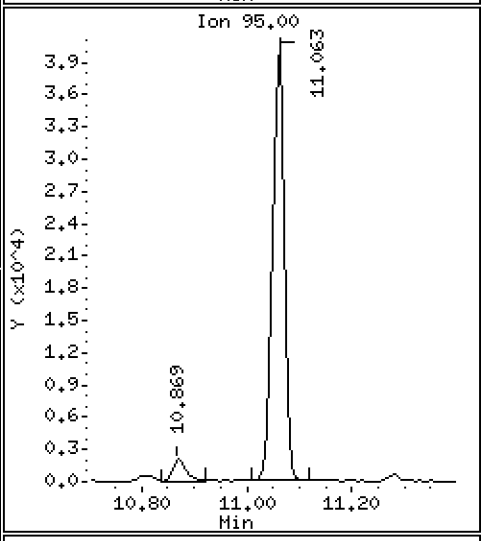
23 Bis(2-Chloroethoxy)methane

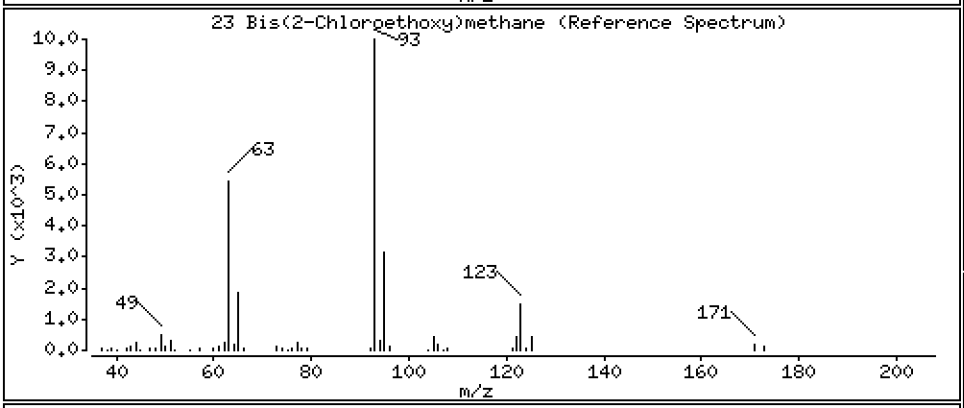
Concentration: 5.464 ug/mL

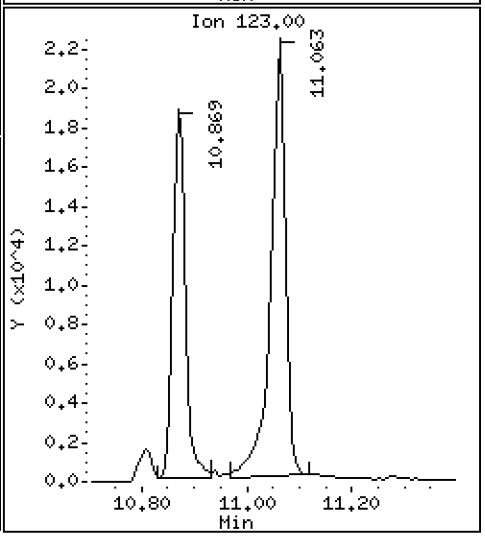


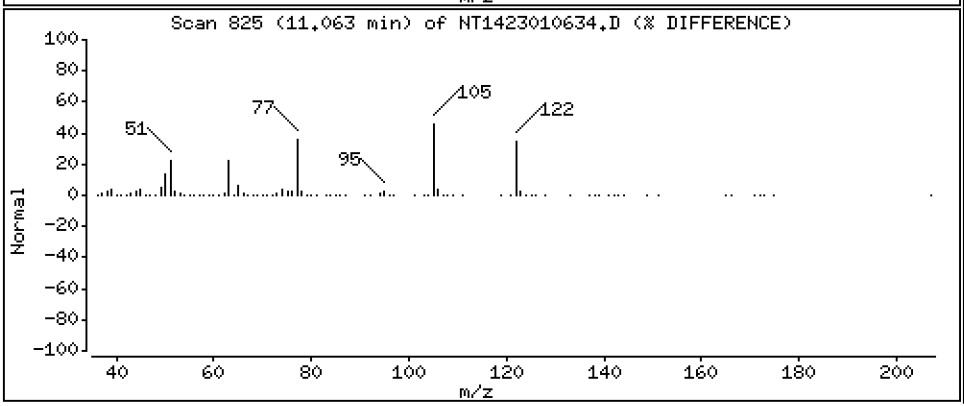












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

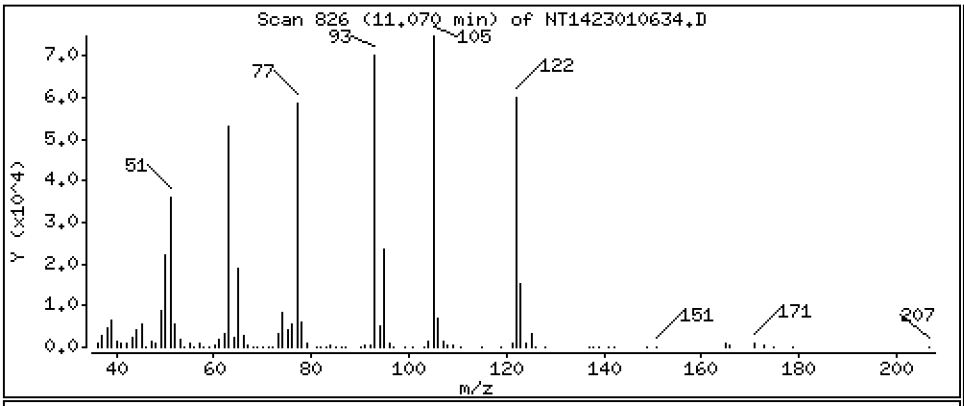
Operator: VTS

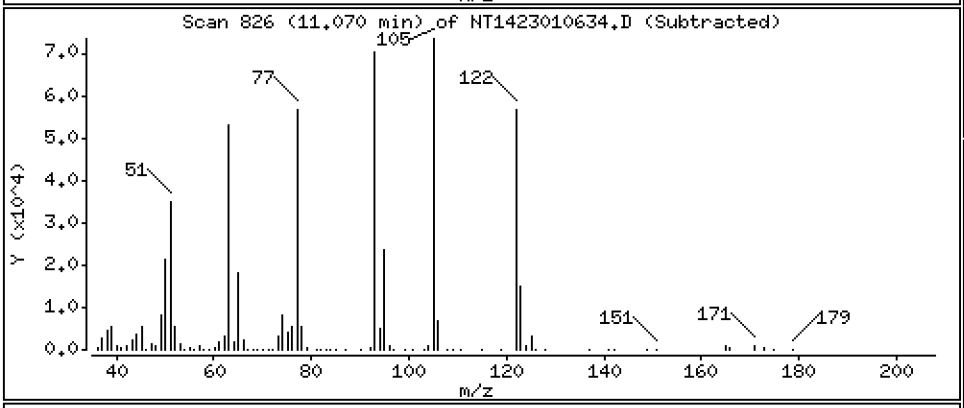
Column phase: ZB-5msi

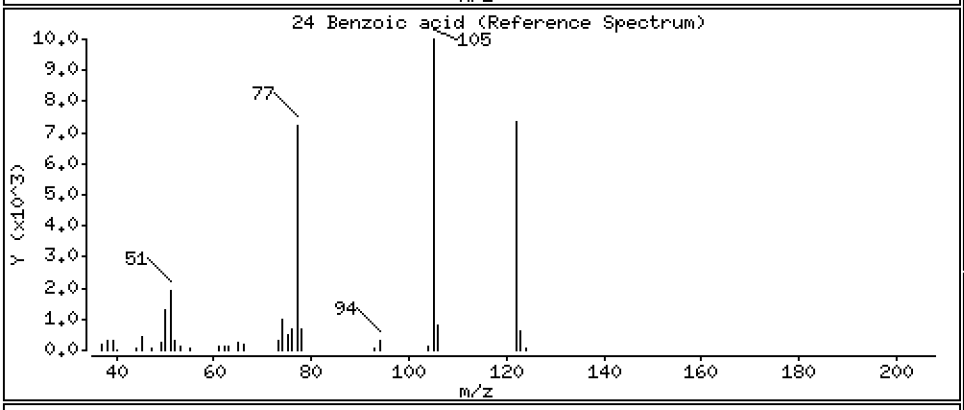
Column diameter: 0.25

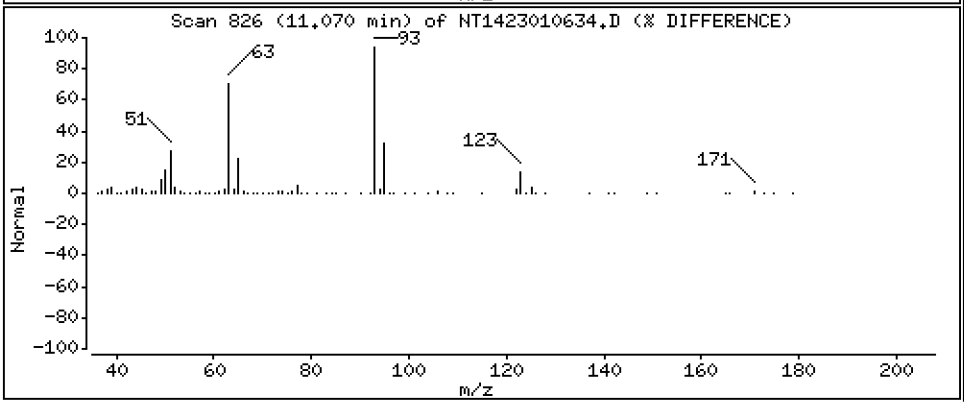
24 Benzoic acid

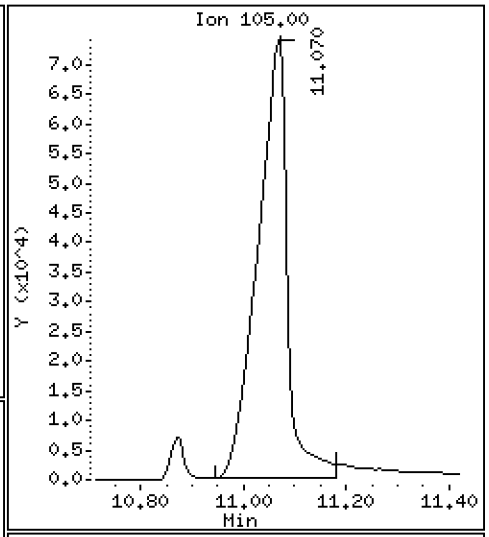
Concentration: 13.38 ug/mL

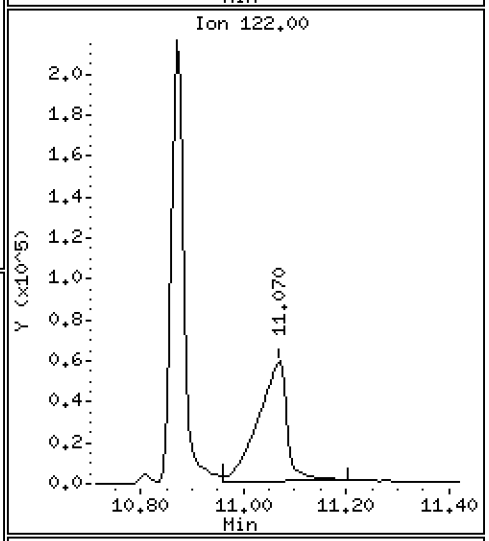


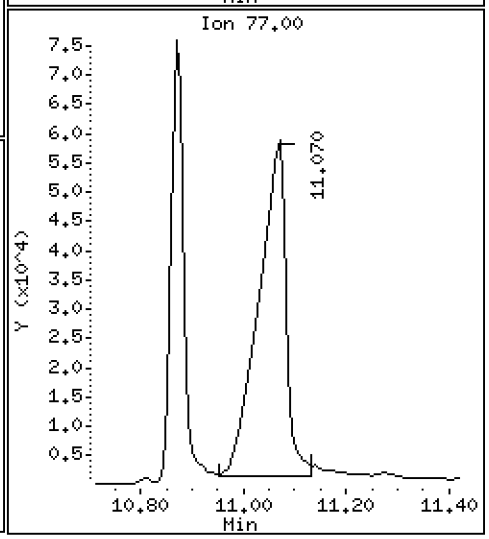












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

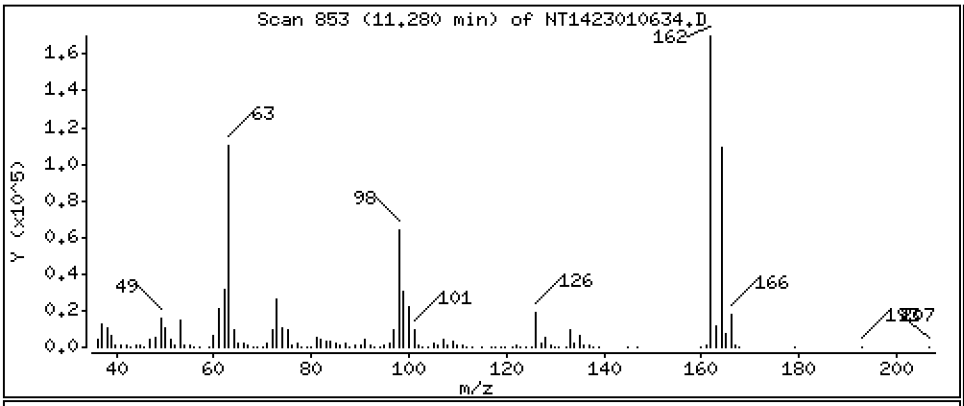
Operator: VTS

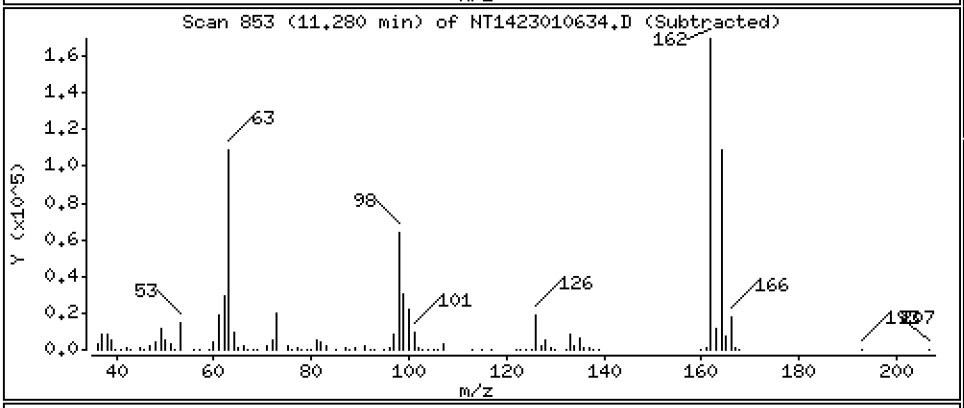
Column phase: ZB-5msi

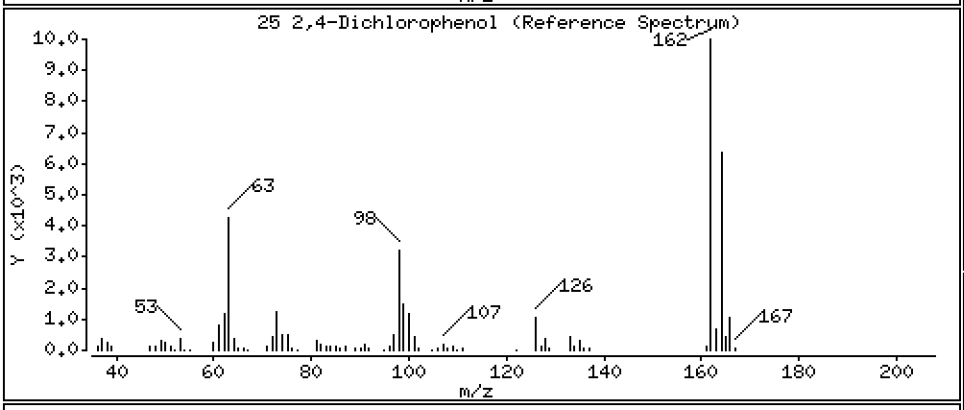
Column diameter: 0.25

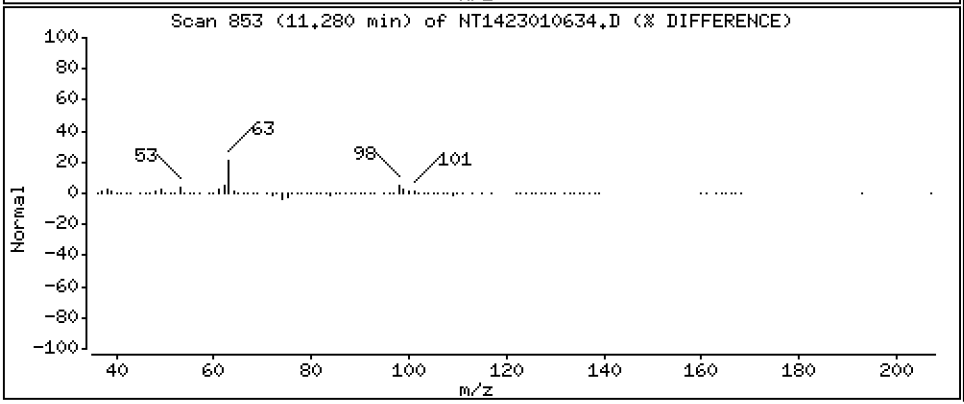
25 2,4-Dichlorophenol

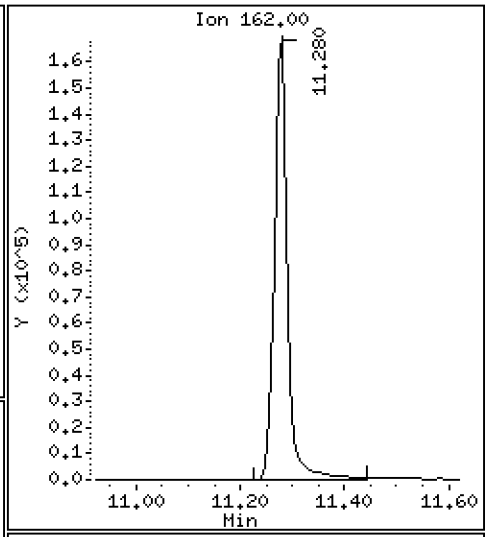
Concentration: 10.80 ug/mL

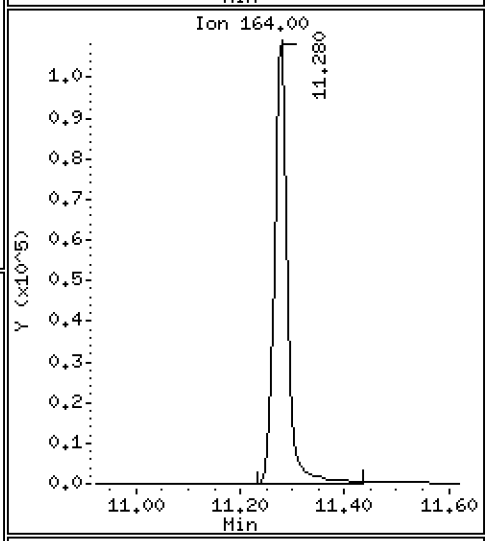


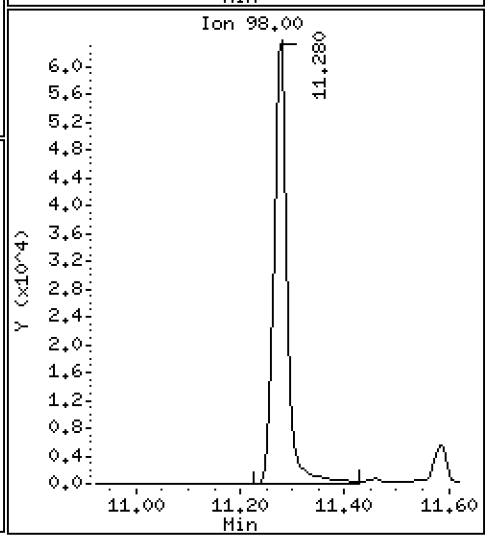












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

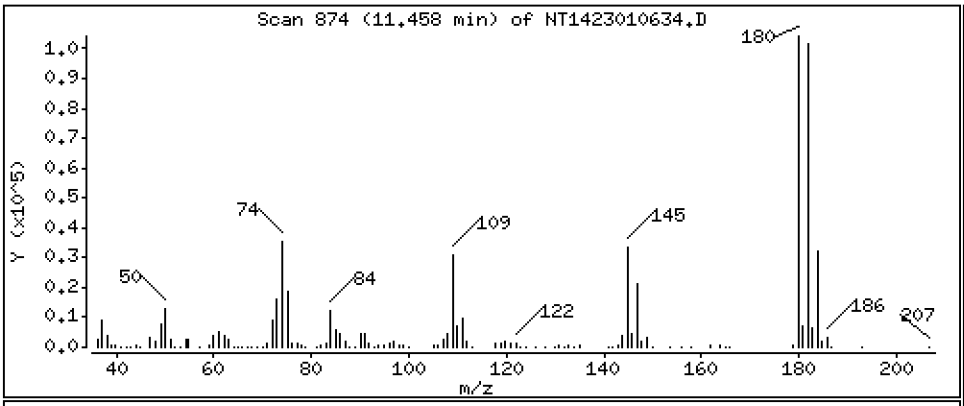
Operator: VTS

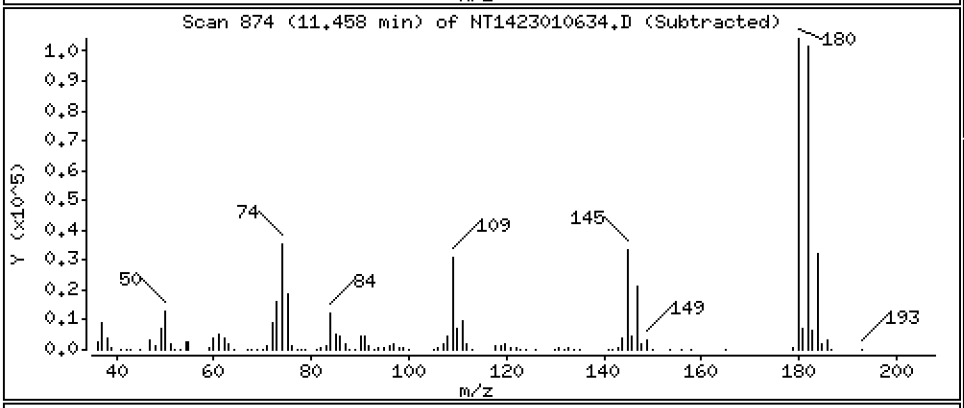
Column phase: ZB-5msi

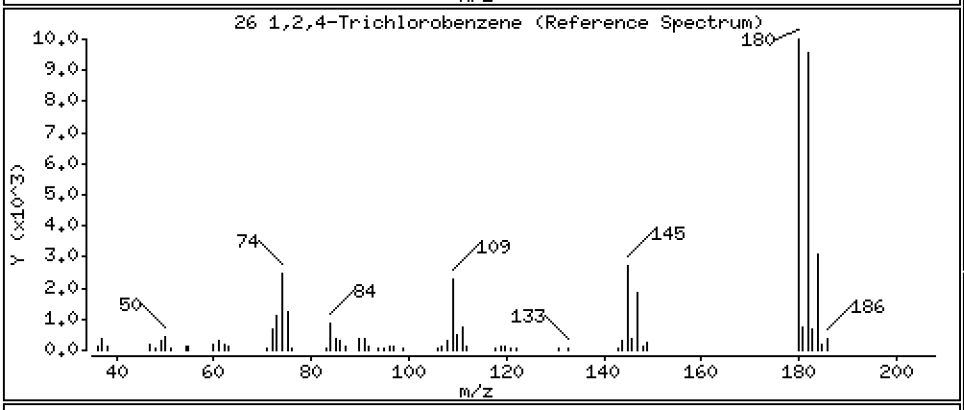
Column diameter: 0.25

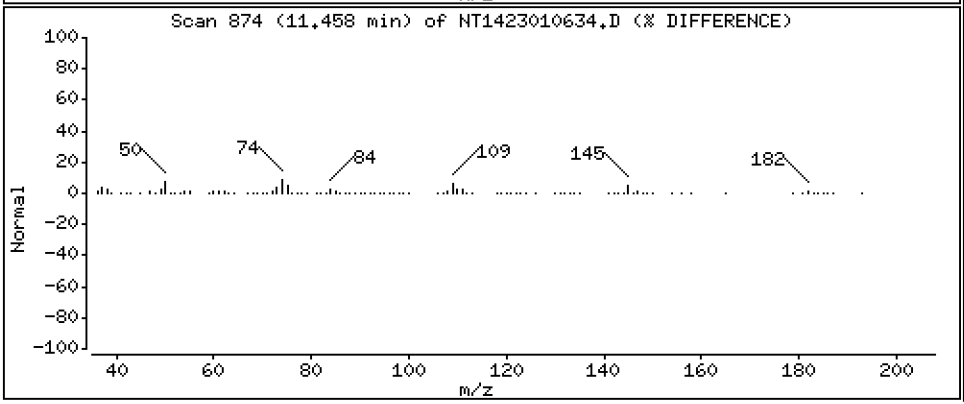
26 1,2,4-Trichlorobenzene

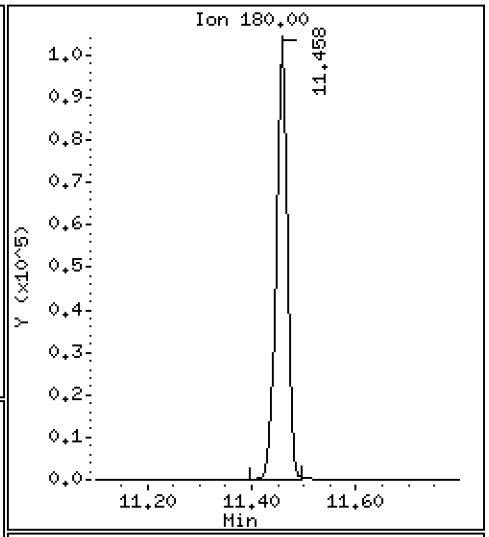
Concentration: 5.807 ug/mL

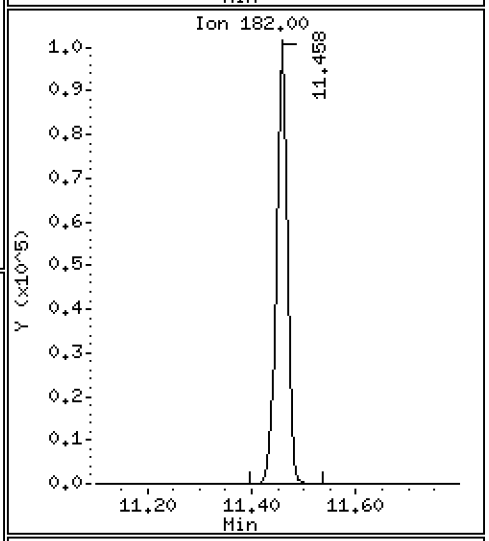


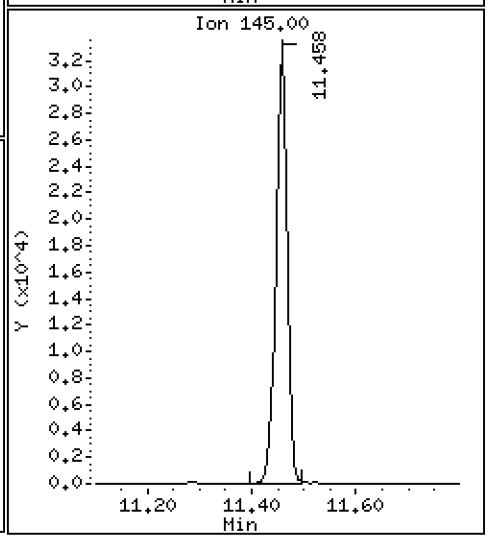












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

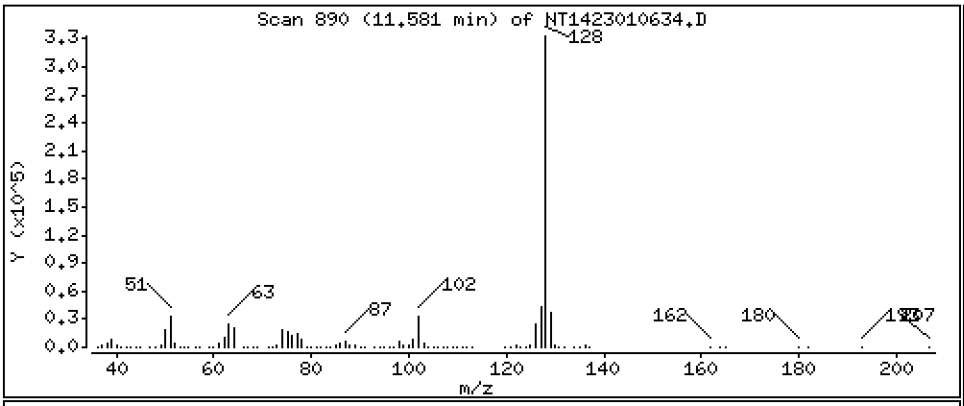
Operator: VTS

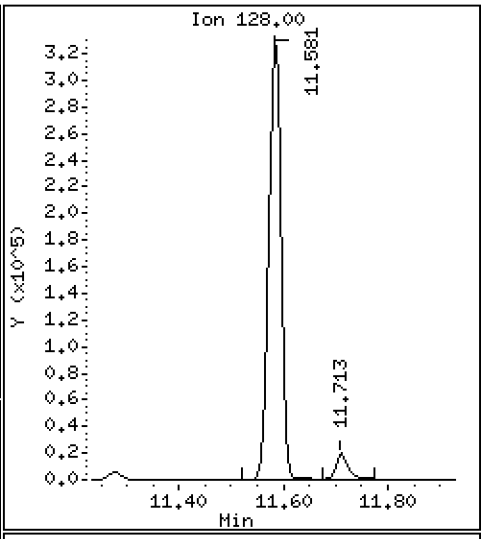
Column phase: ZB-5msi

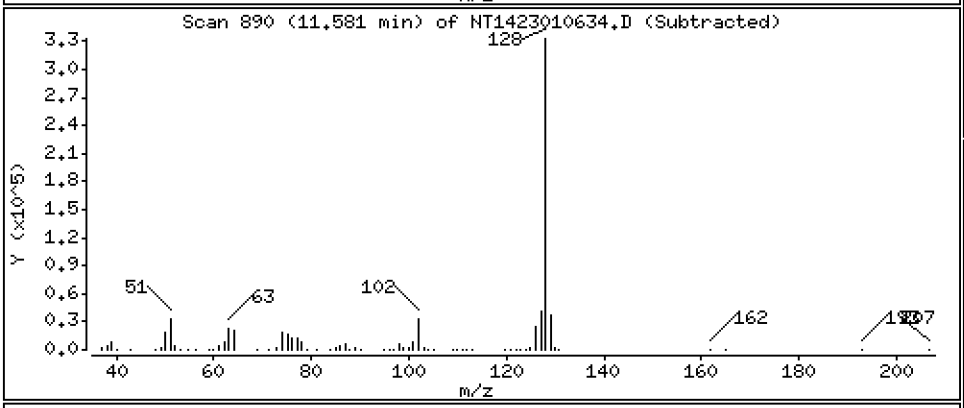
Column diameter: 0.25

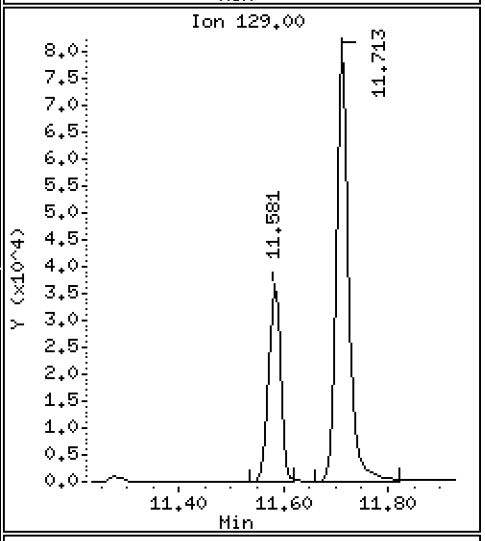
28 Naphthalene

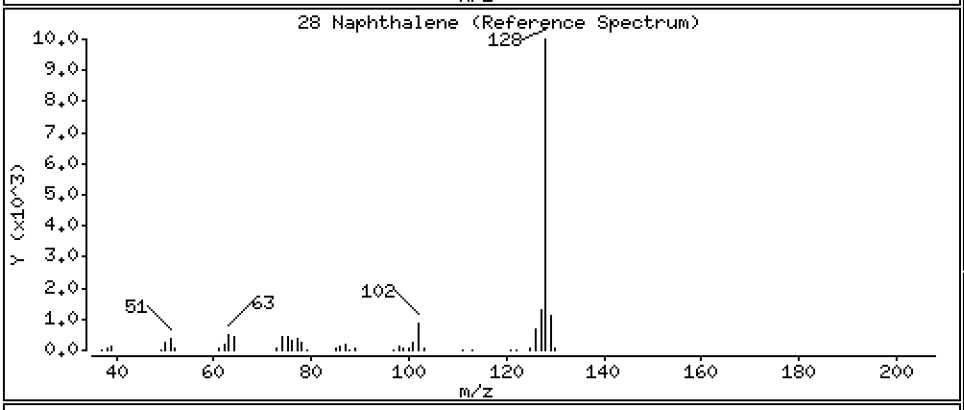
Concentration: 5.202 ug/mL

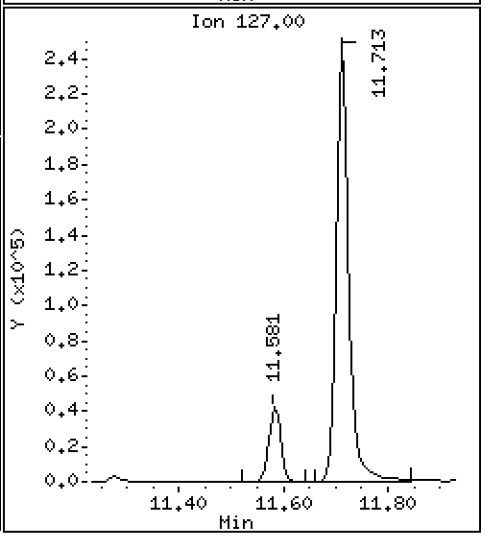


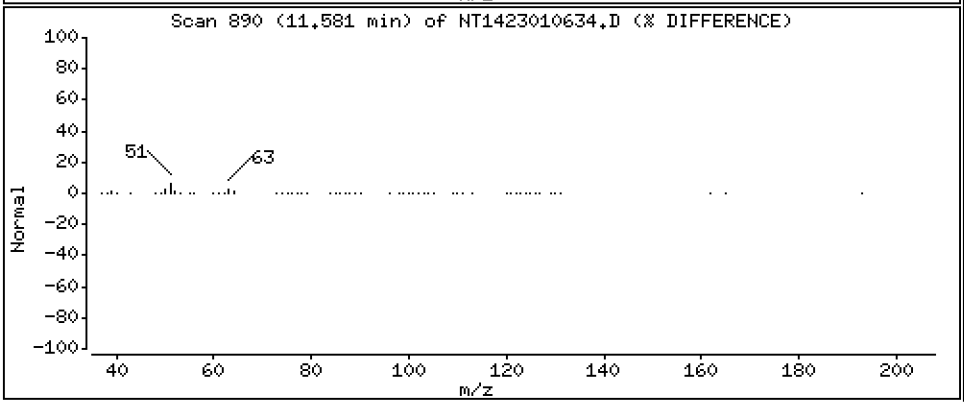












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

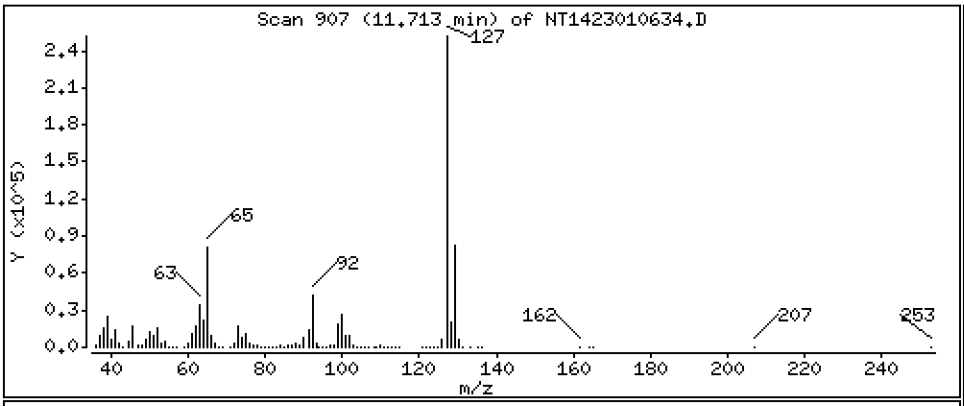
Operator: VTS

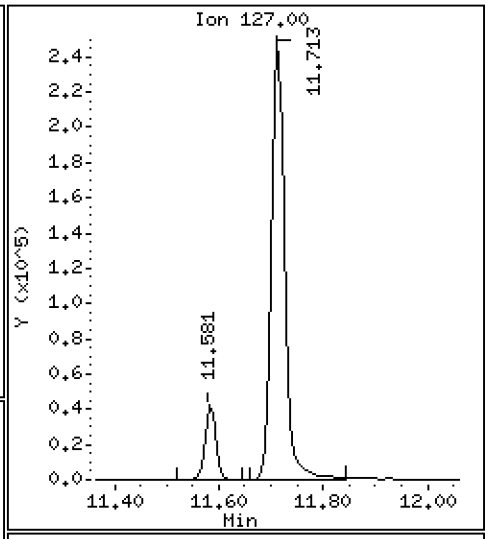
Column phase: ZB-5msi

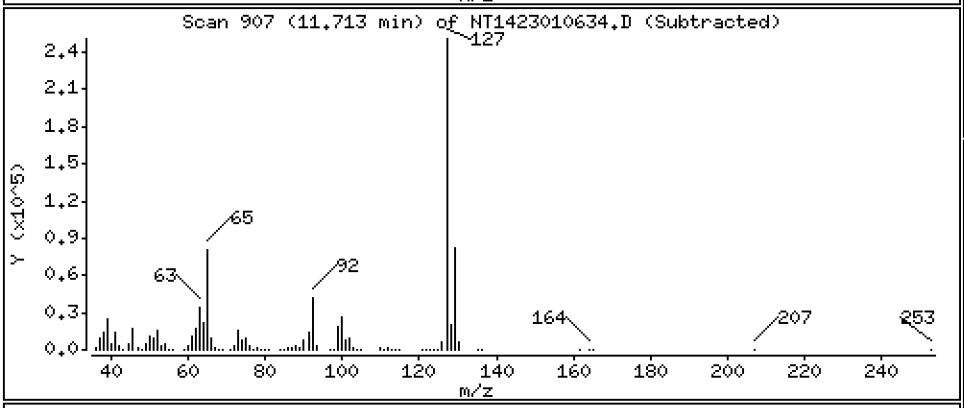
Column diameter: 0.25

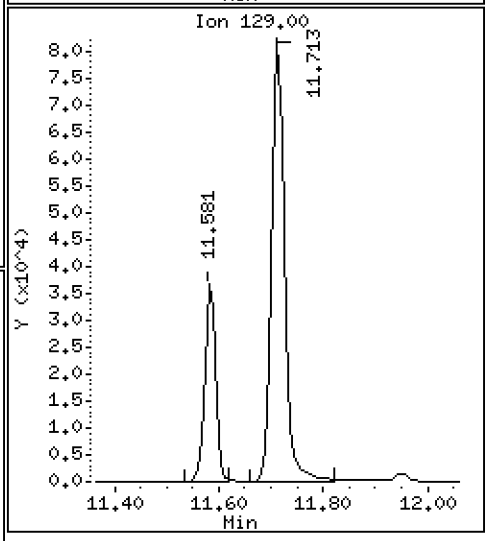
29 4-Chloroaniline

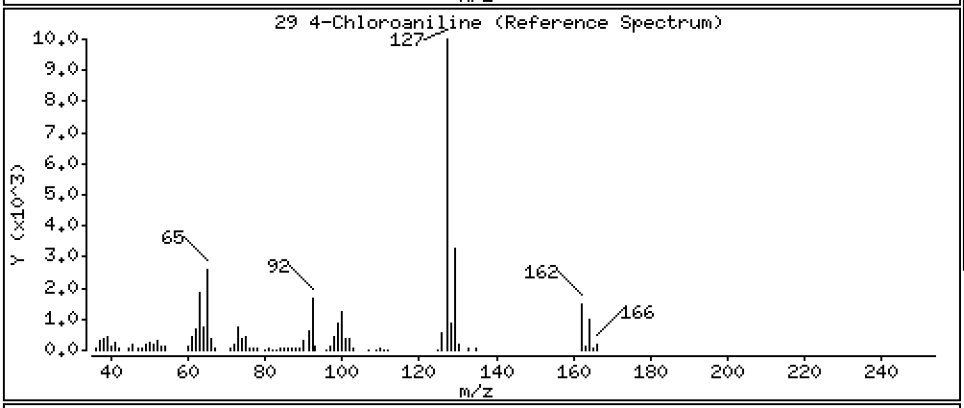
Concentration: 10.24 ug/mL

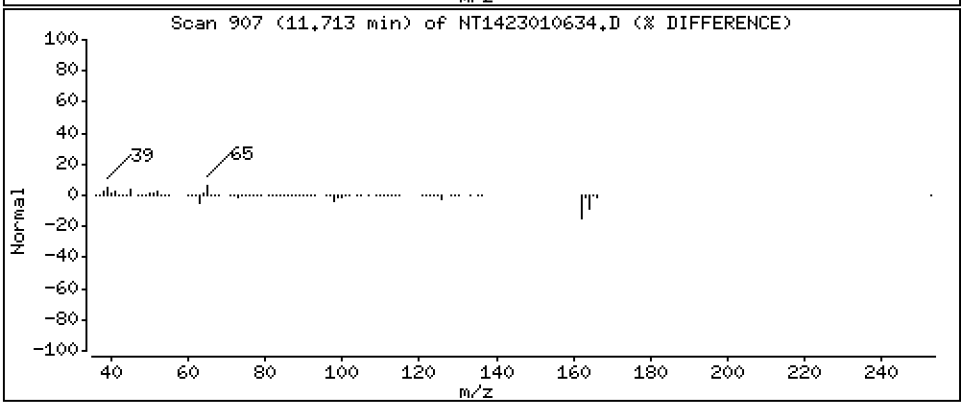












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

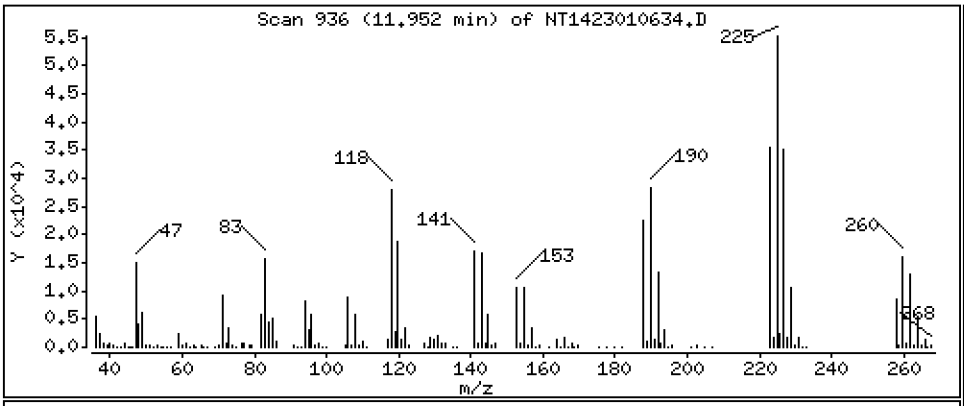
Operator: VTS

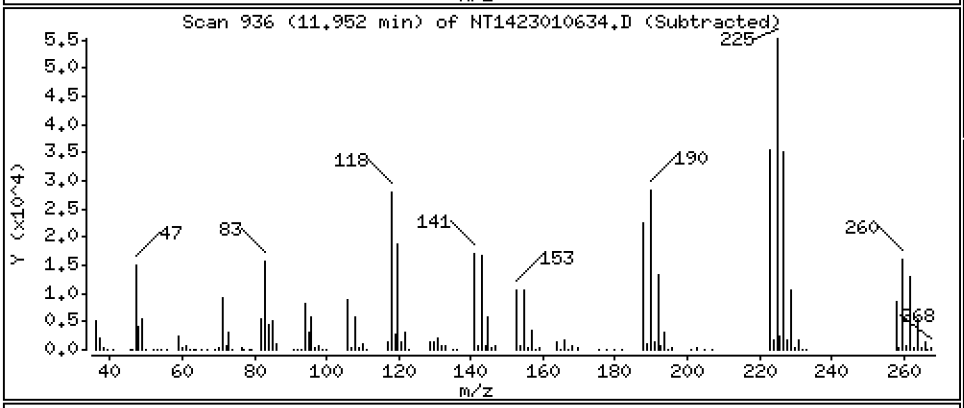
Column phase: ZB-5msi

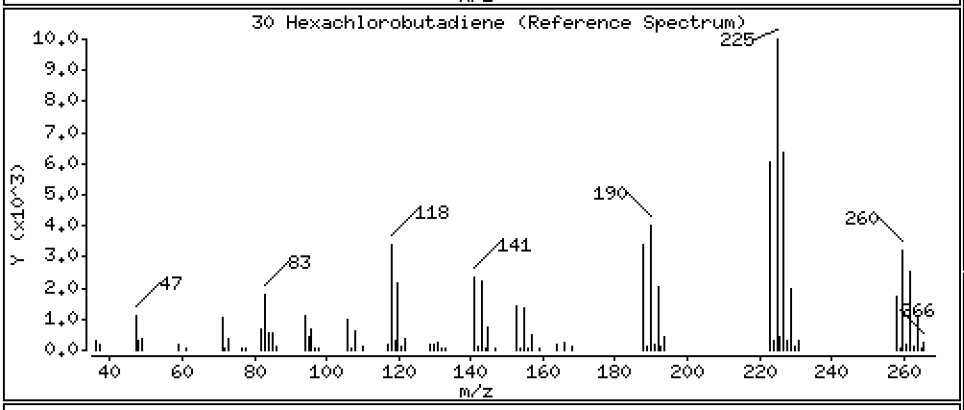
Column diameter: 0.25

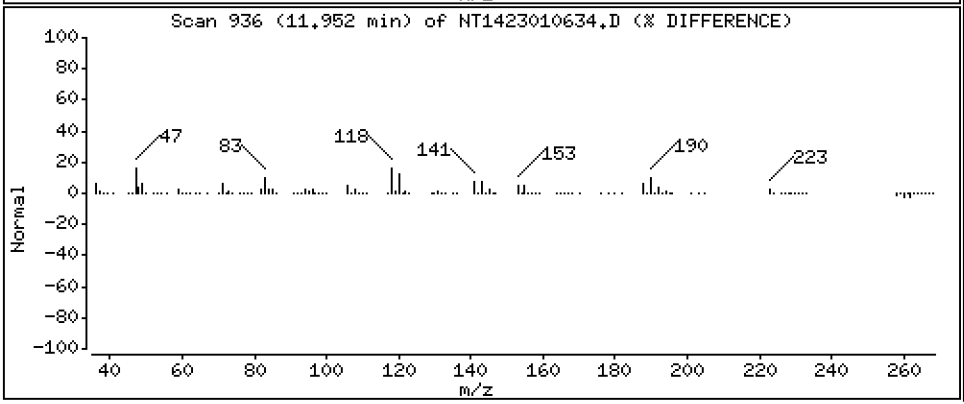
30 Hexachlorobutadiene

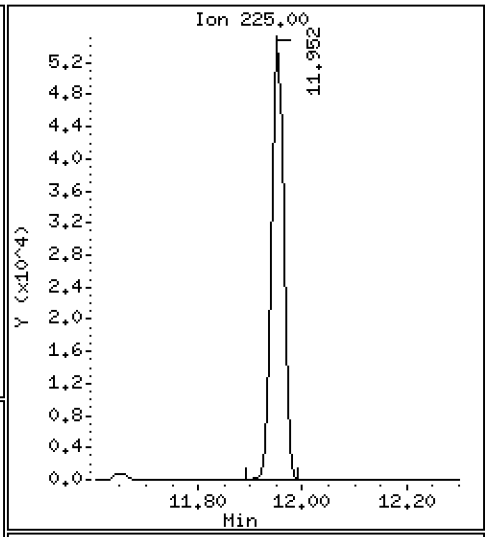
Concentration: 6.257 ug/mL

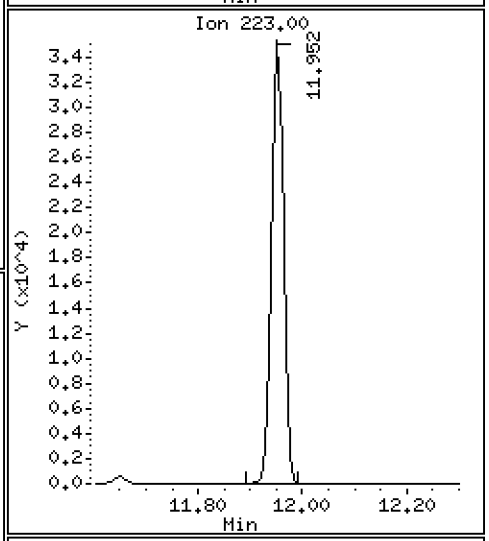


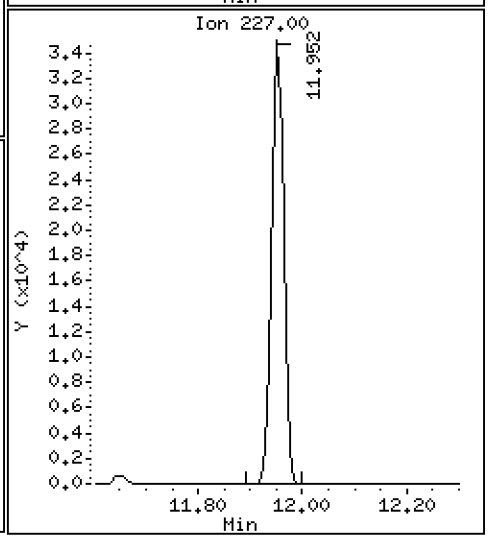












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

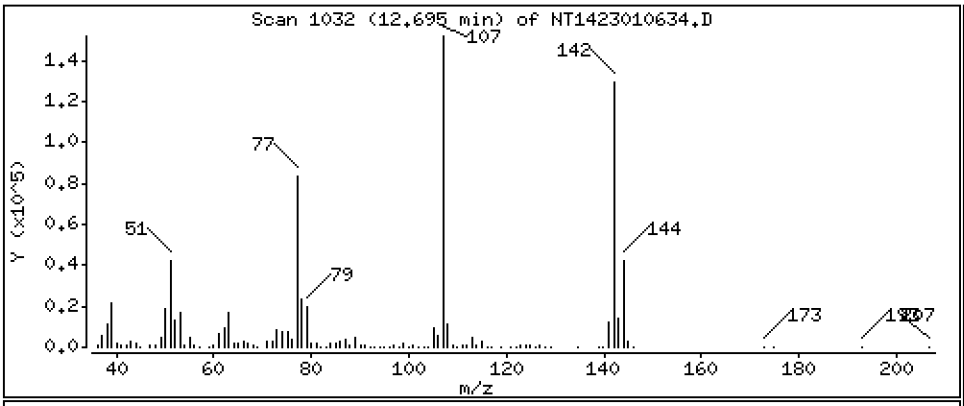
Operator: VTS

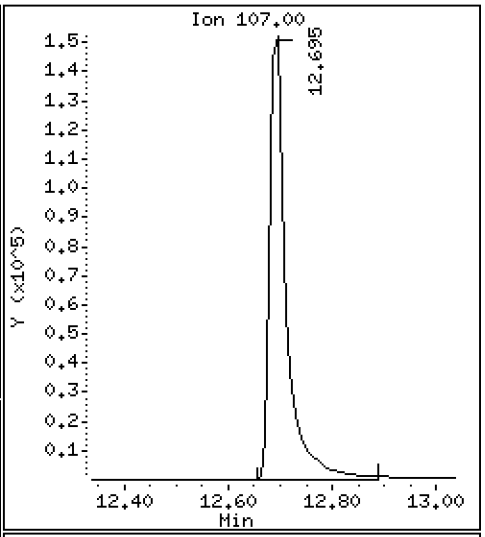
Column phase: ZB-5msi

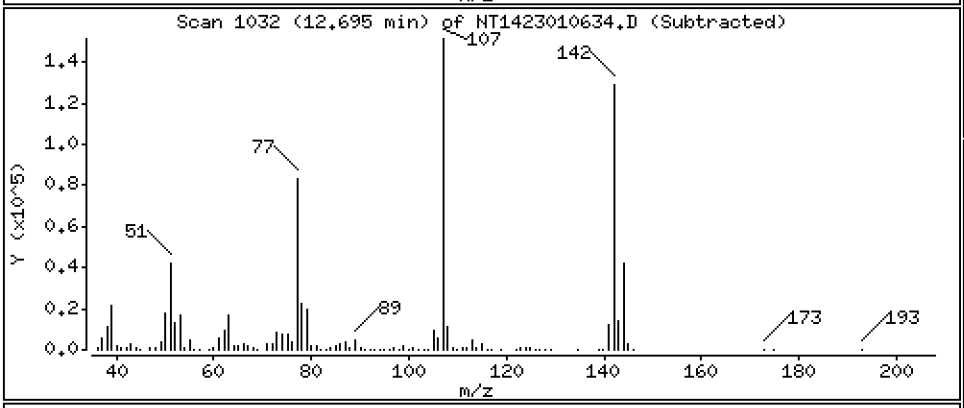
Column diameter: 0.25

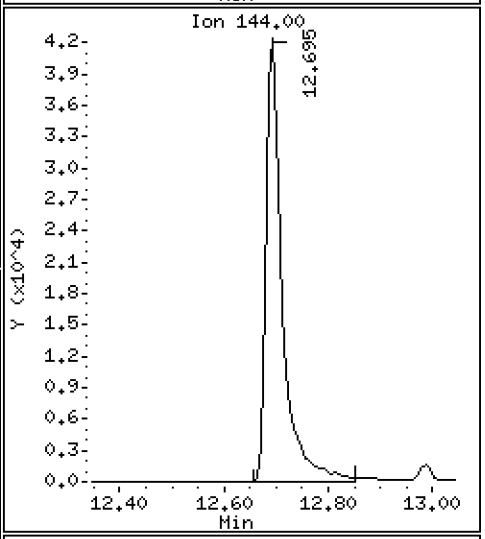
31 4-Chloro-3-methylphenol

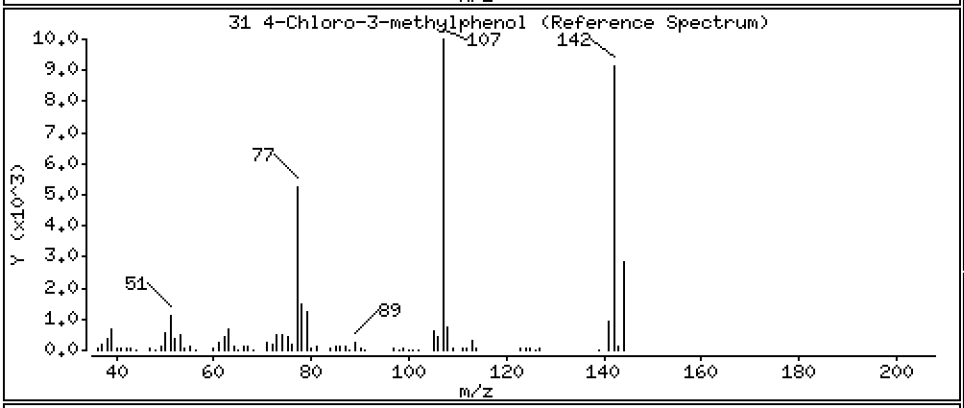
Concentration: 11.72 ug/mL

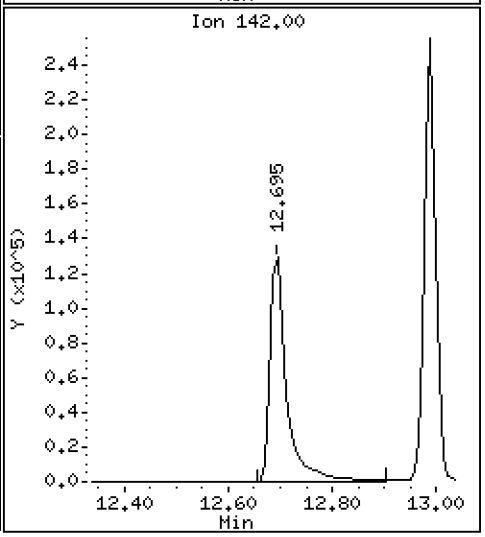


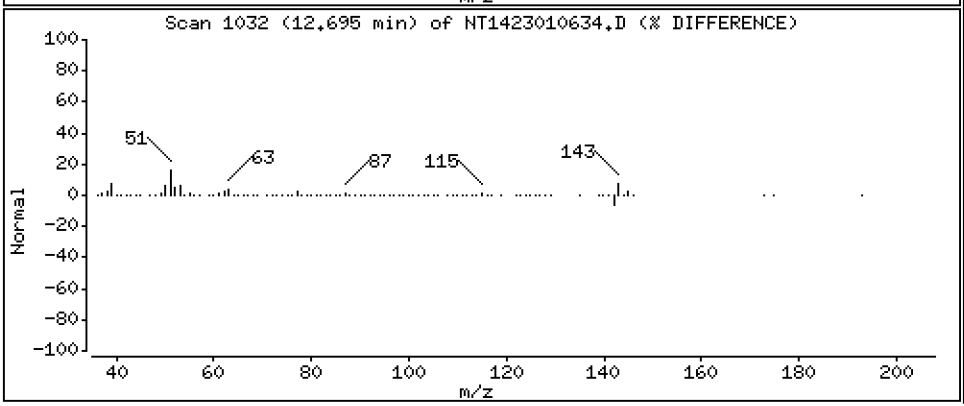












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

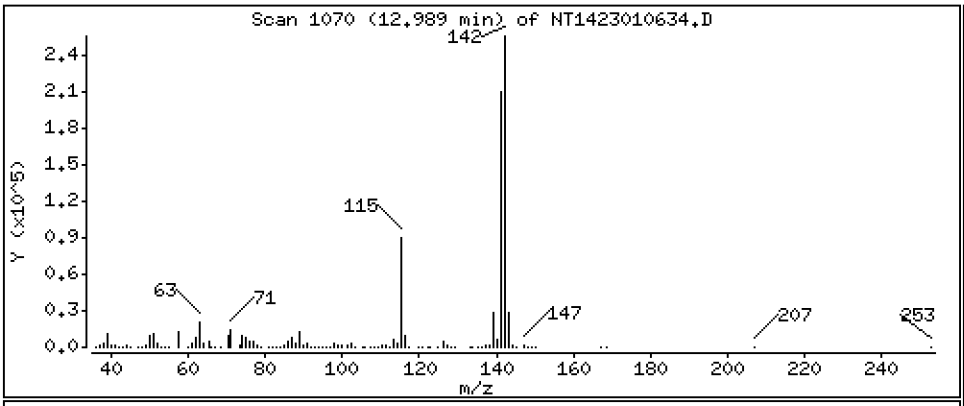
Operator: VTS

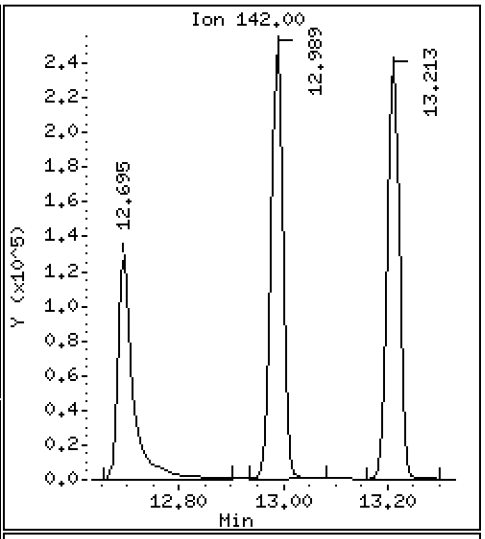
Column phase: ZB-5msi

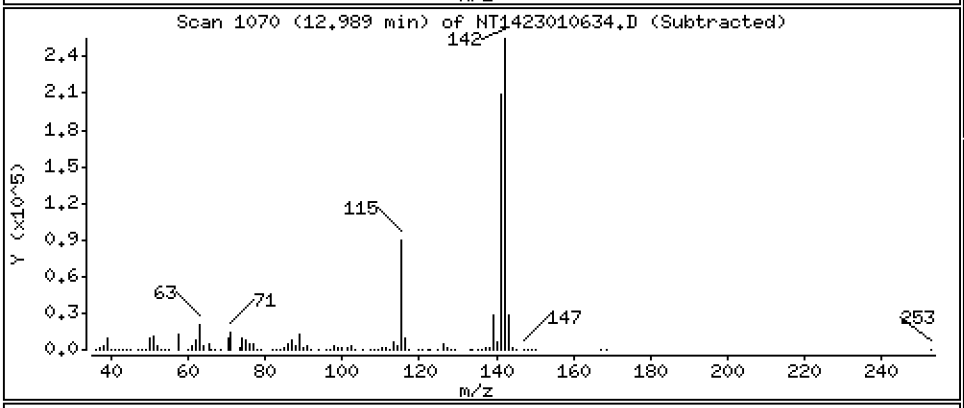
Column diameter: 0.25

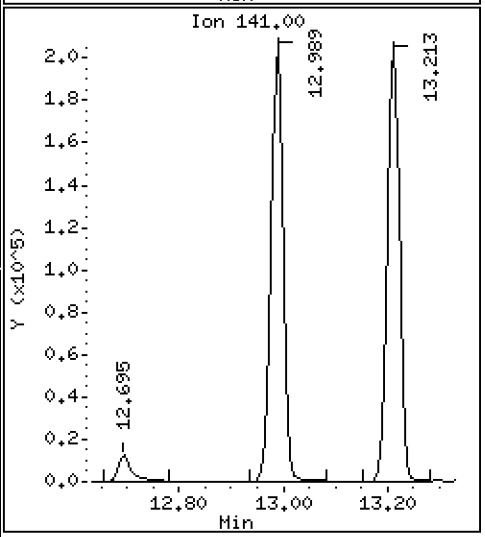
32 2-Methylnaphthalene

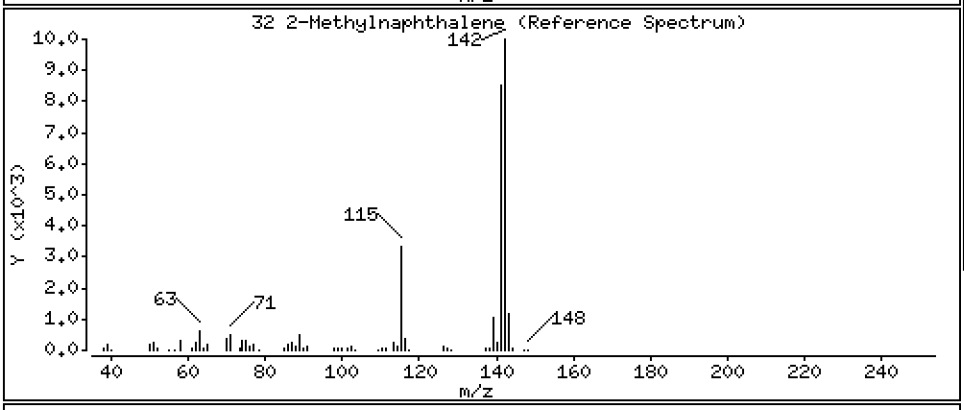
Concentration: 5.209 ug/mL

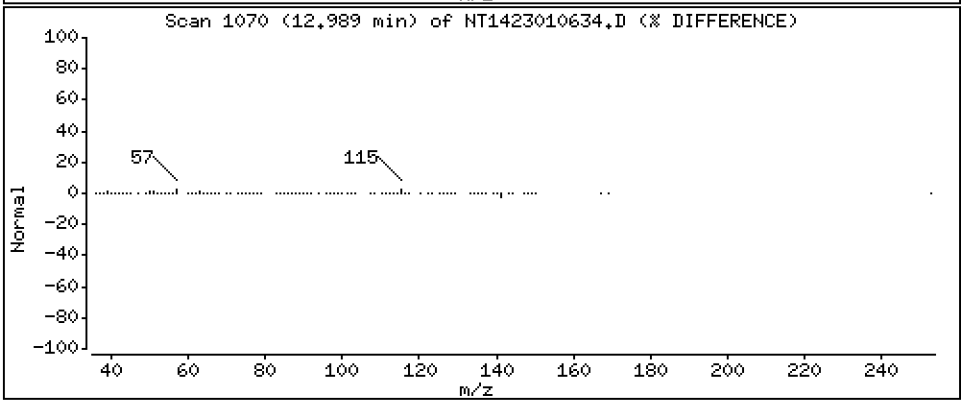












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

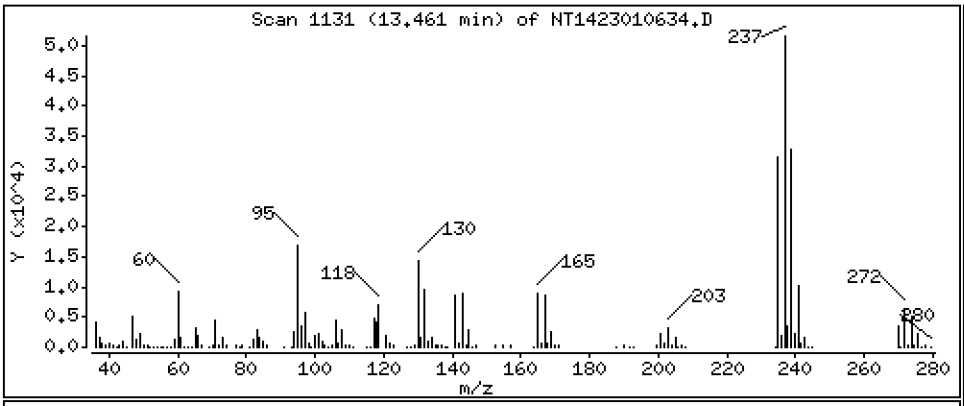
Operator: VTS

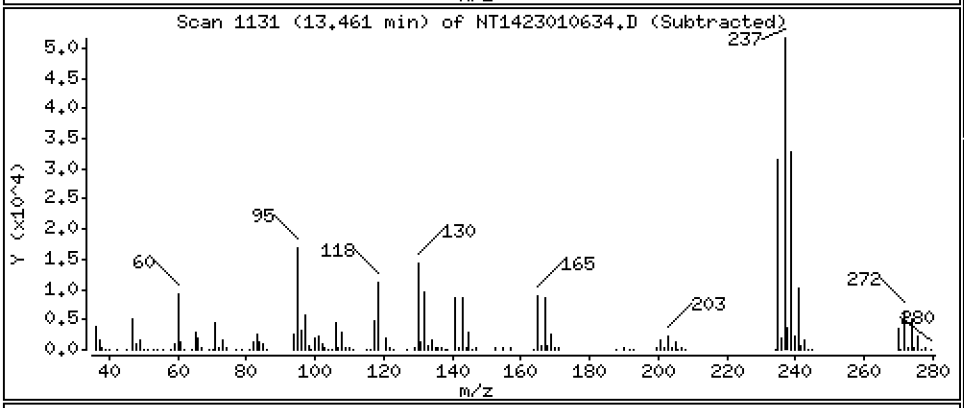
Column phase: ZB-5msi

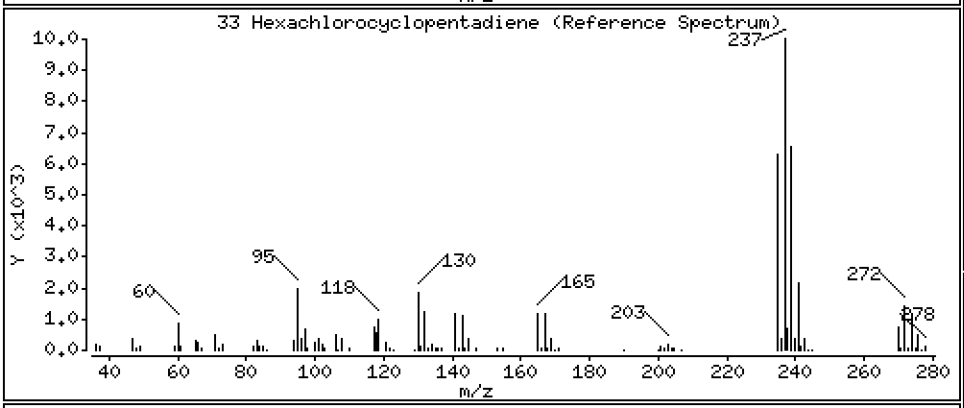
Column diameter: 0.25

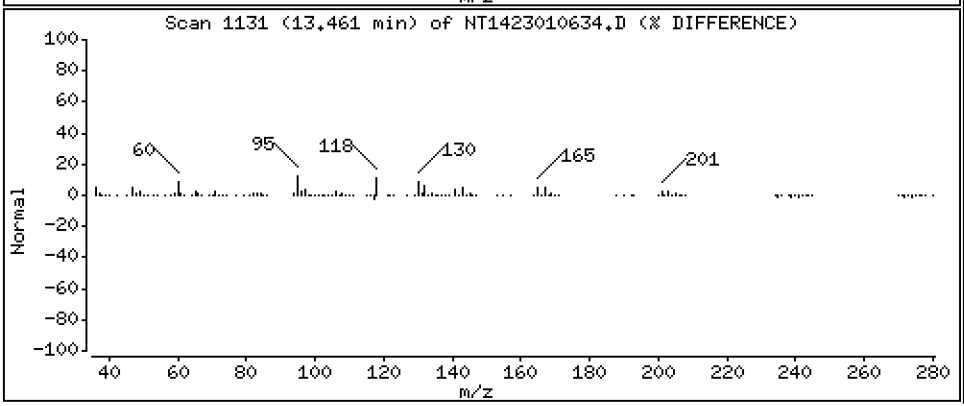
33 Hexachlorocyclopentadiene

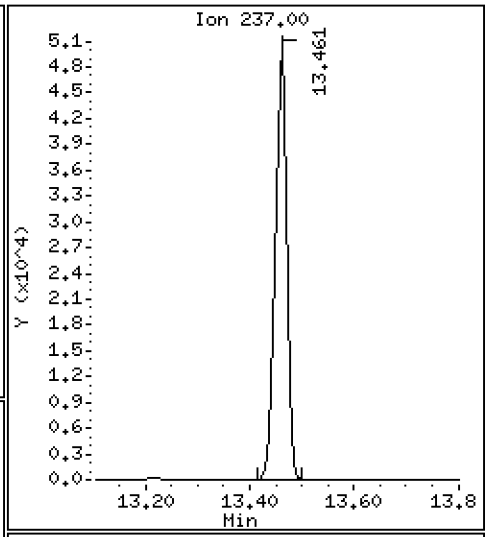
Concentration: 4.853 ug/mL

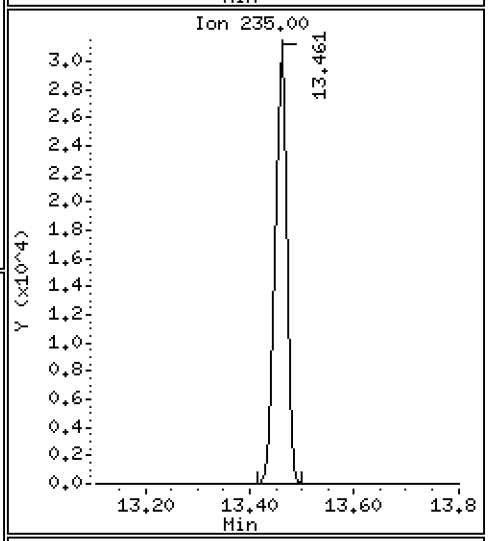


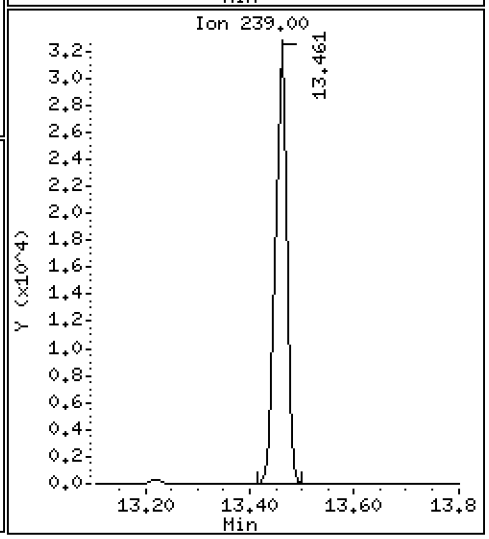












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

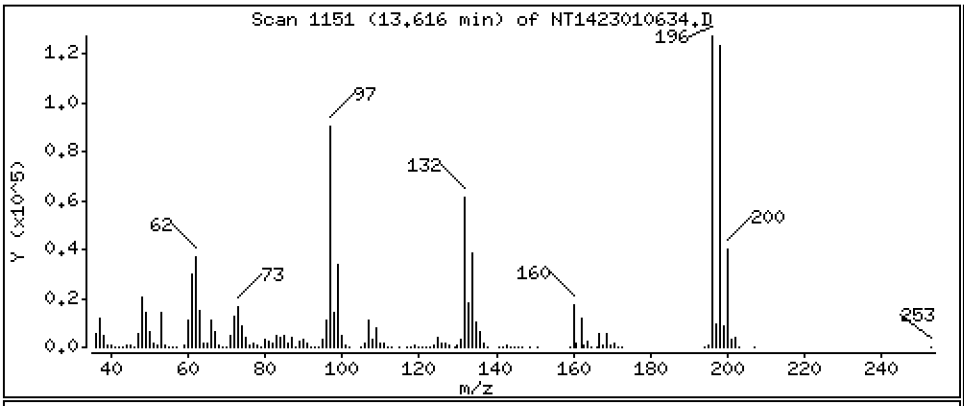
Operator: VTS

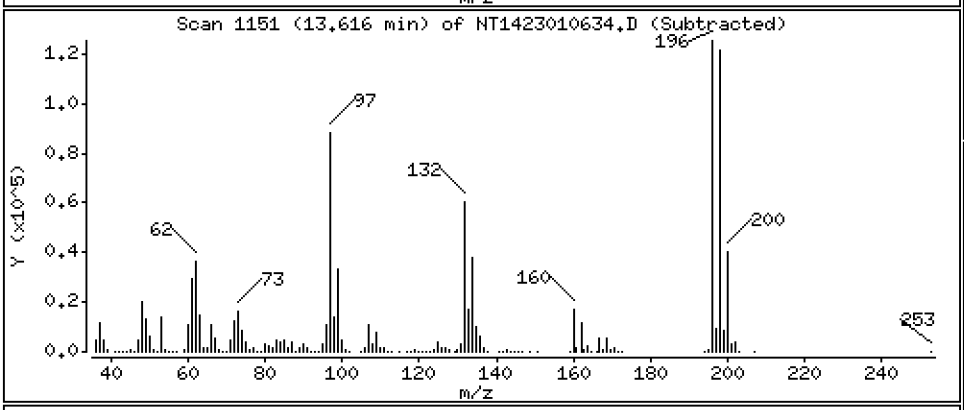
Column phase: ZB-5msi

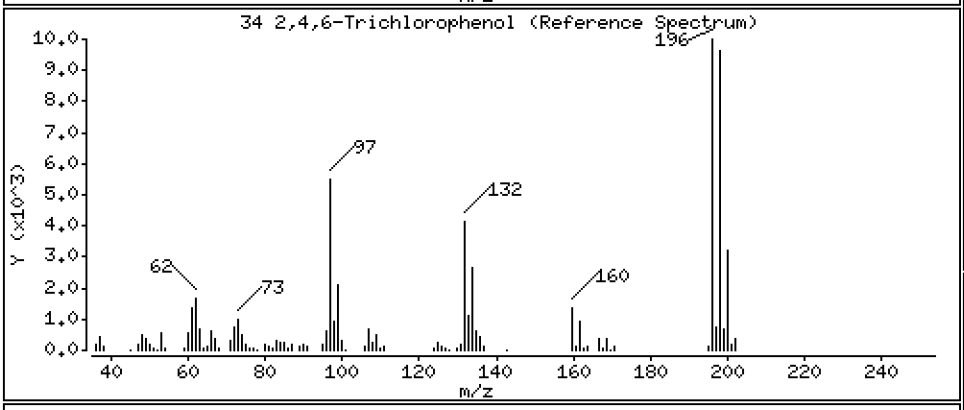
Column diameter: 0.25

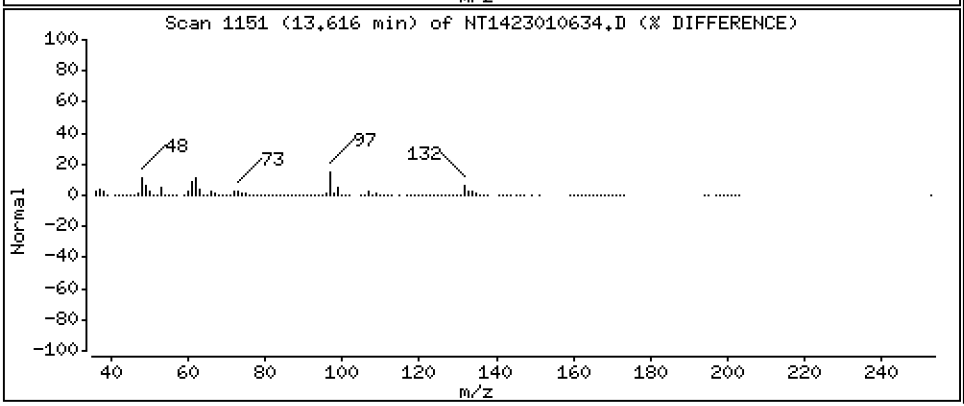
34 2,4,6-Trichlorophenol

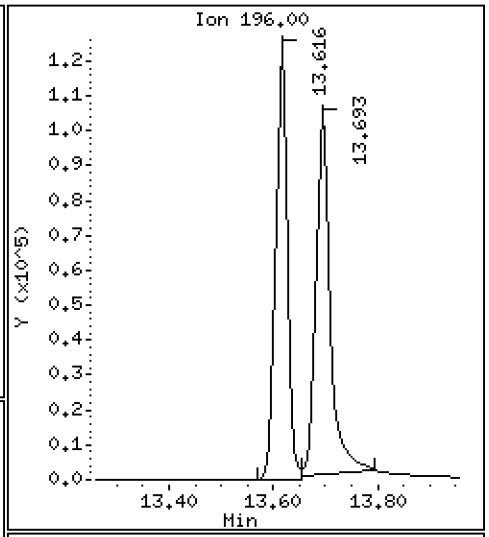
Concentration: 11.18 ug/mL

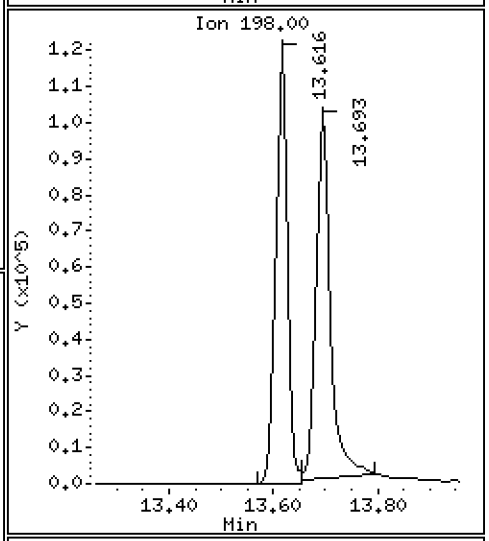


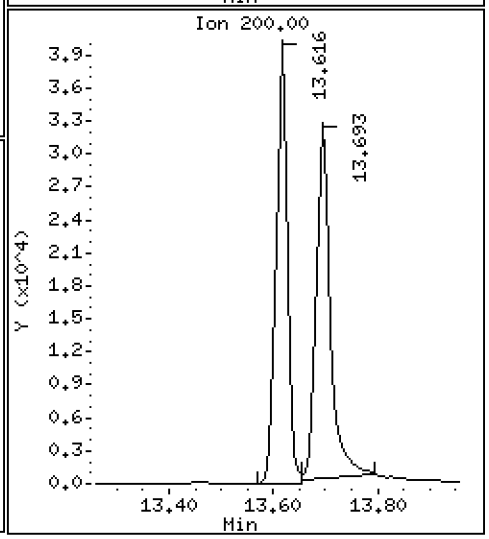












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

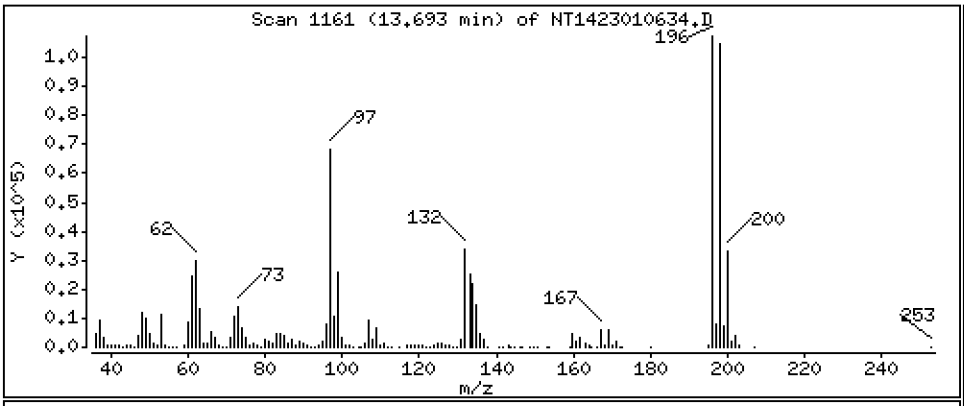
Operator: VTS

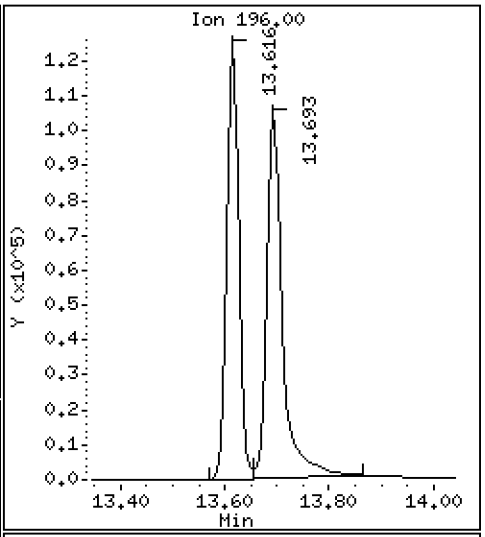
Column phase: ZB-5msi

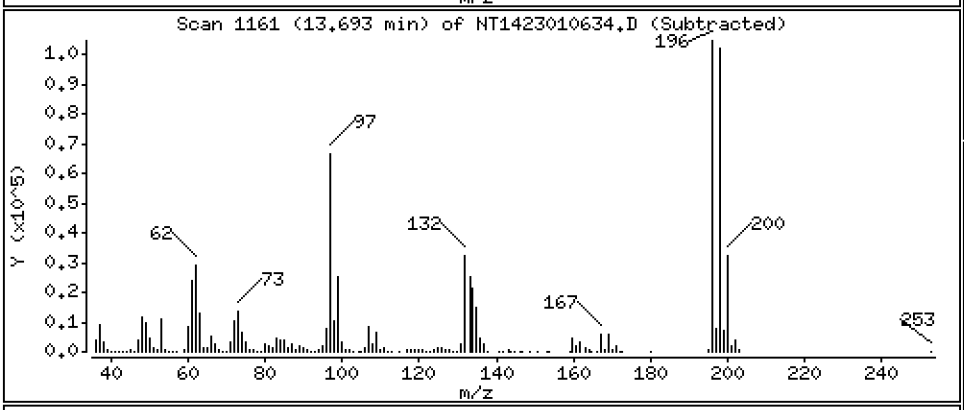
Column diameter: 0.25

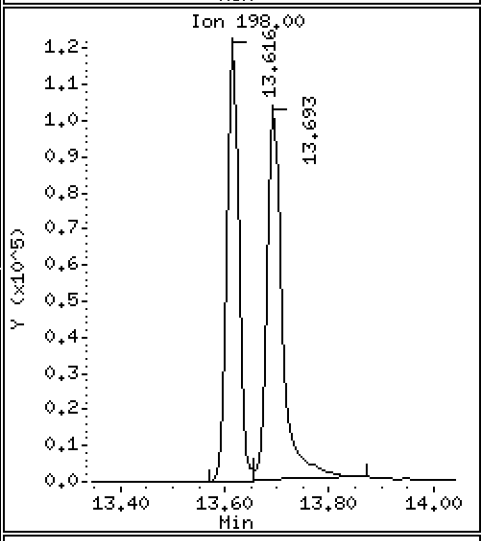
35 2,4,5-Trichlorophenol

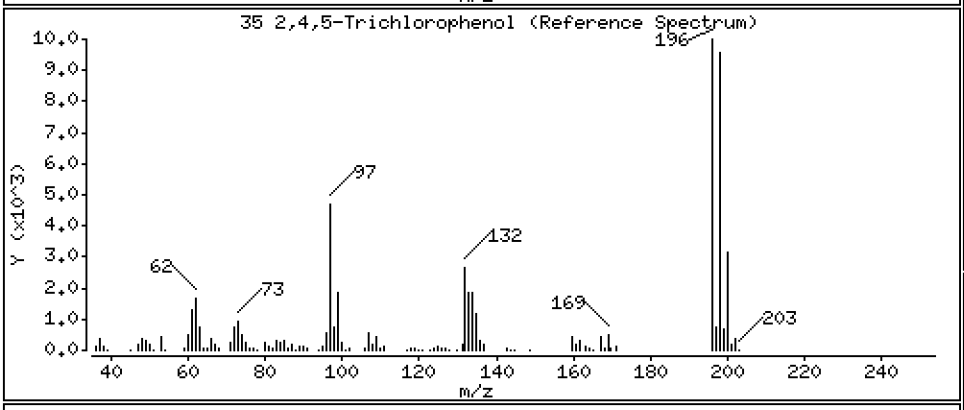
Concentration: 10.66 ug/mL

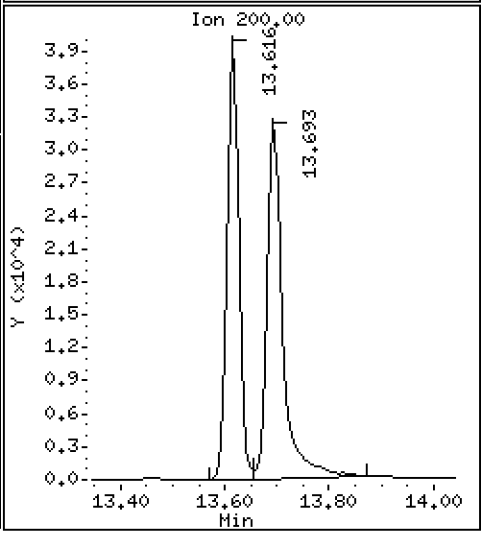


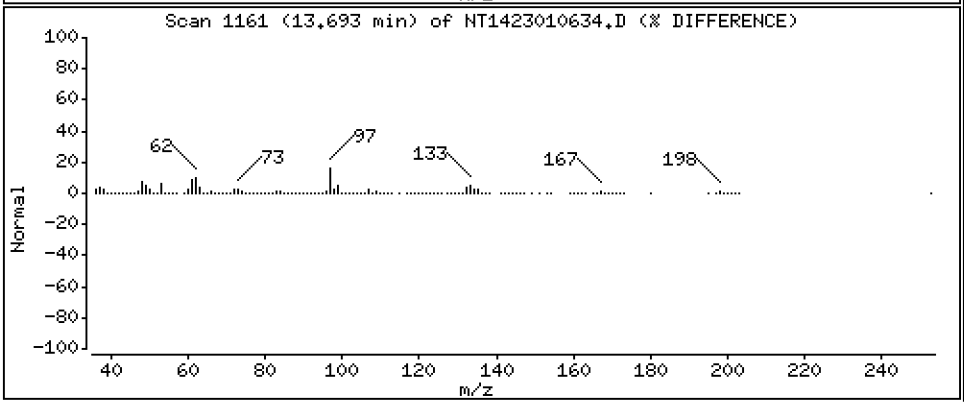












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

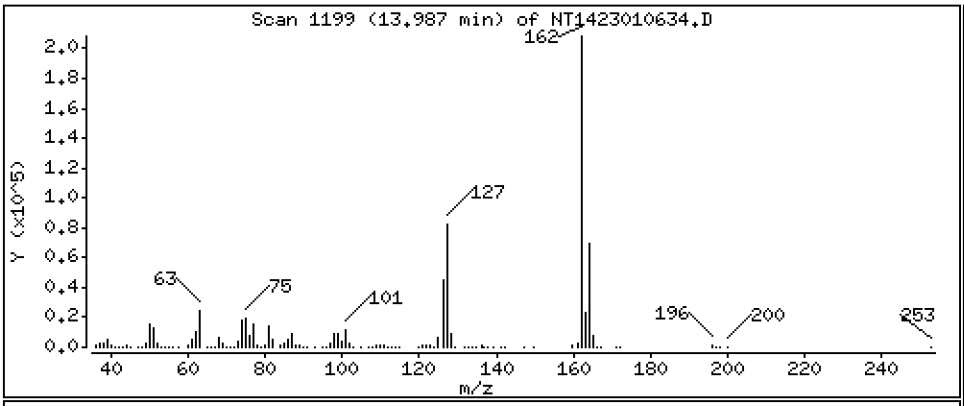
Operator: VTS

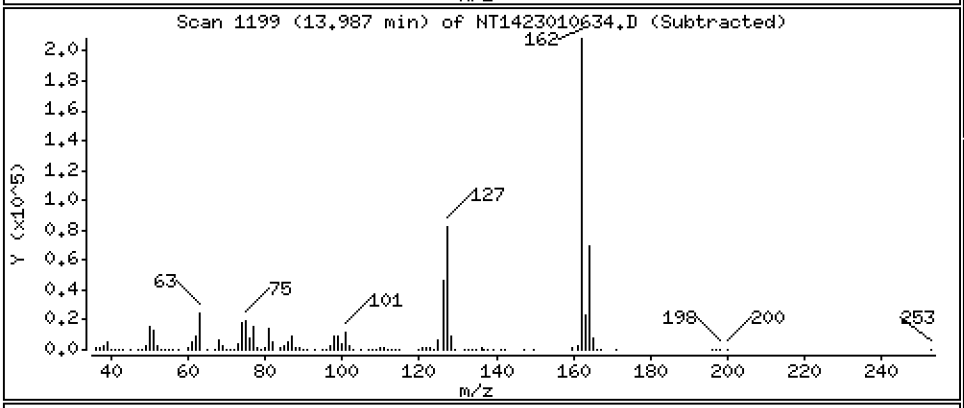
Column phase: ZB-5msi

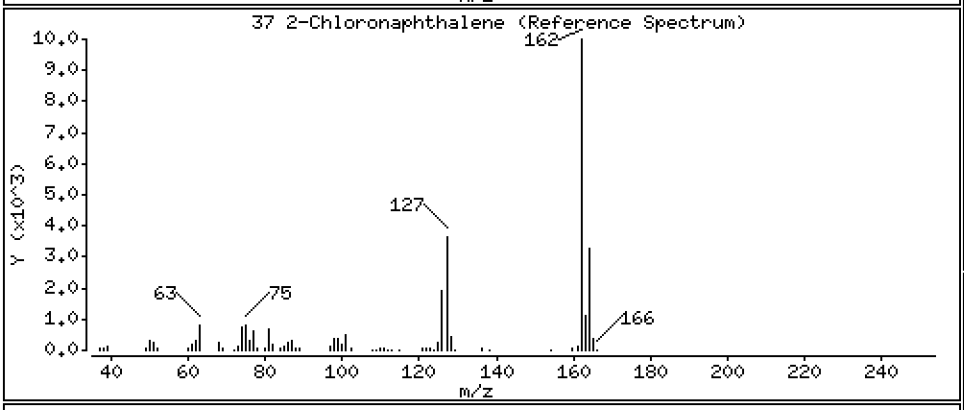
Column diameter: 0.25

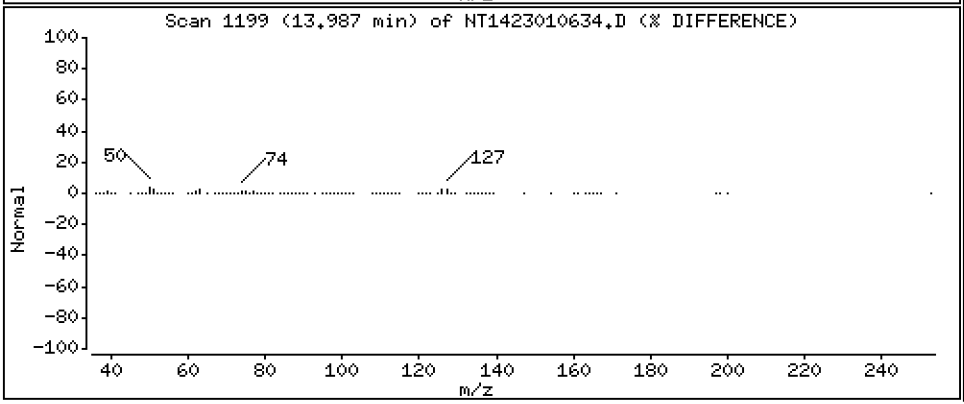
37 2-Chloronaphthalene

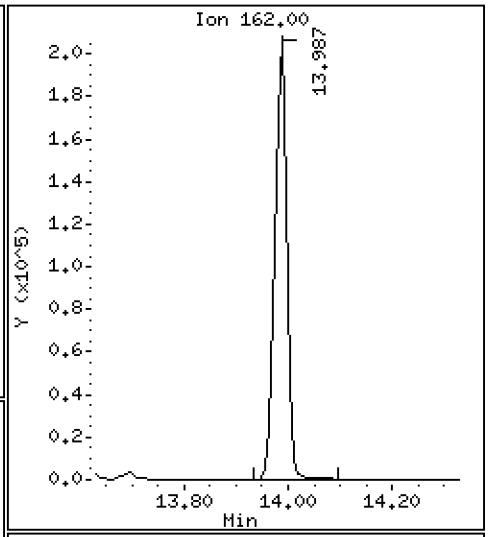
Concentration: 5.491 ug/mL

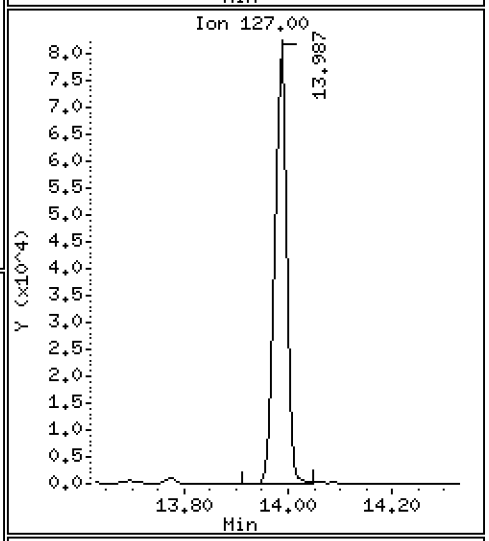


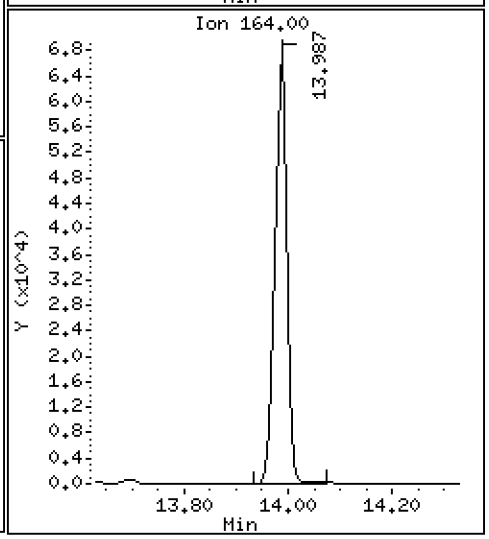












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

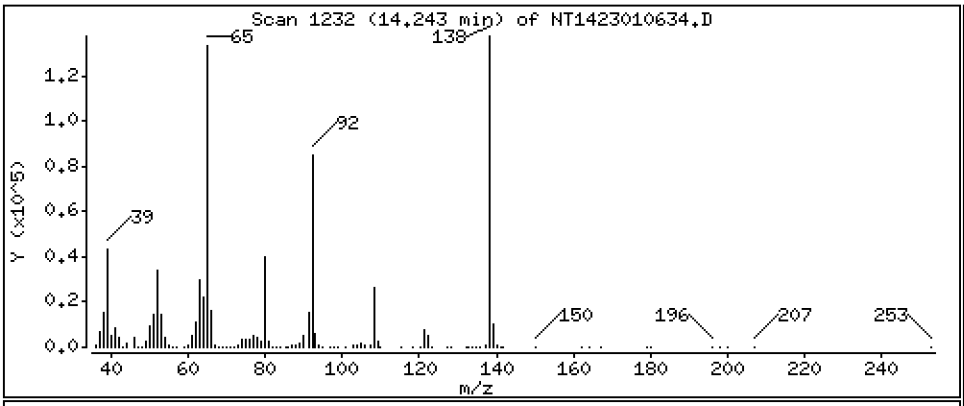
Operator: VTS

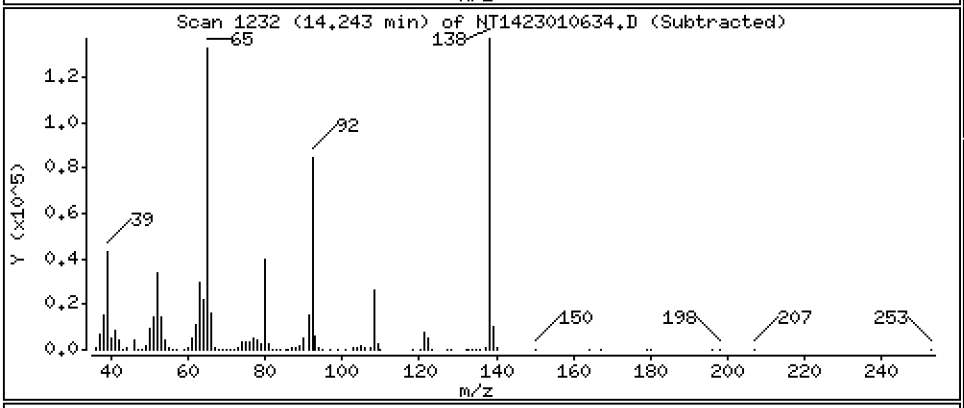
Column phase: ZB-5msi

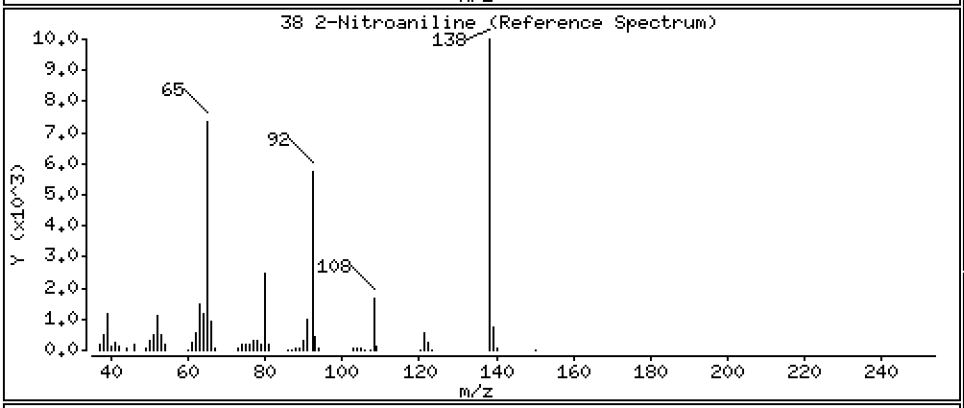
Column diameter: 0.25

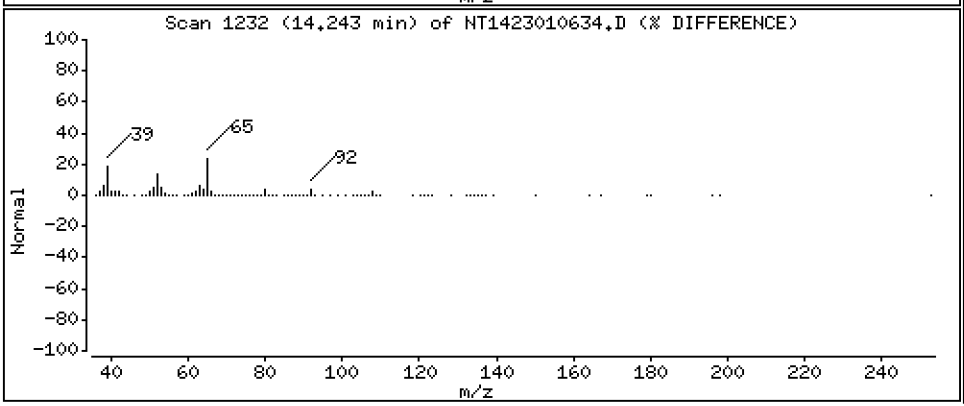
38 2-Nitroaniline

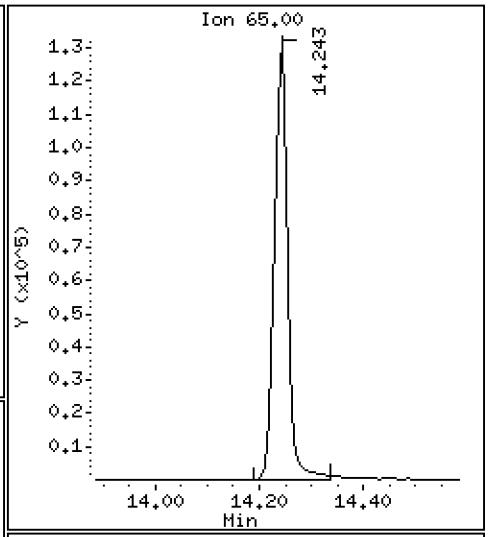
Concentration: 14.61 ug/mL

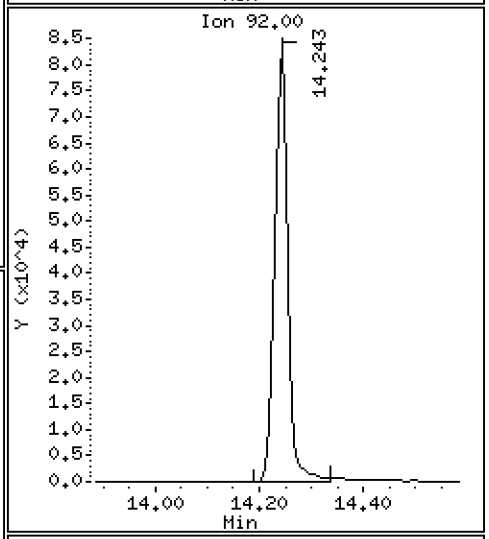


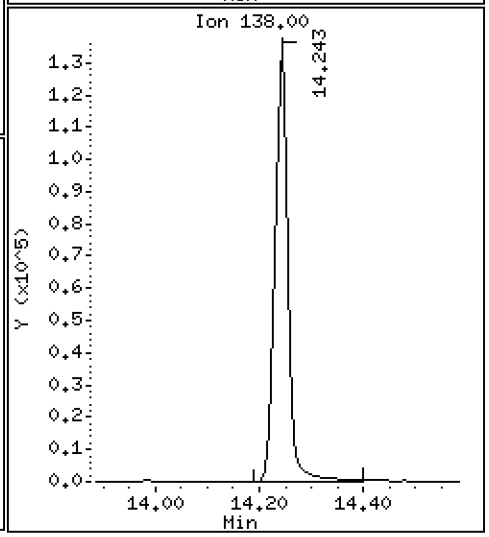












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

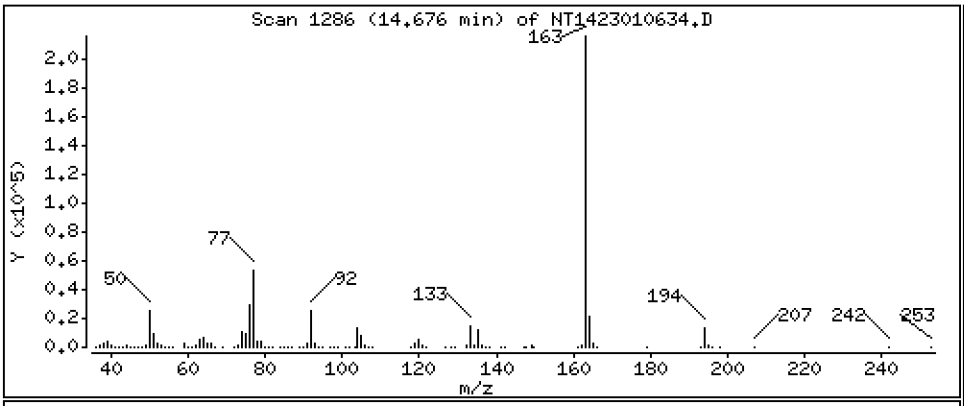
Operator: VTS

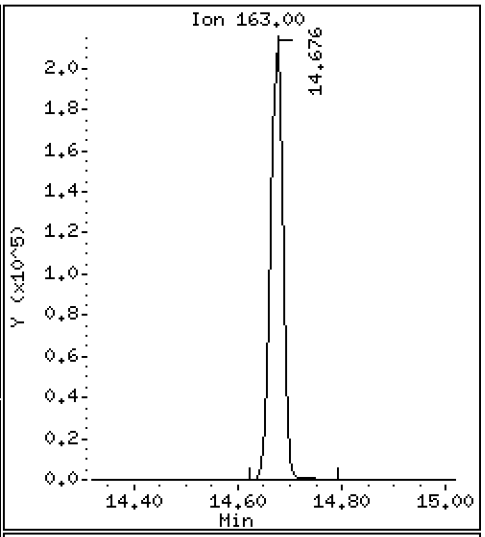
Column phase: ZB-5msi

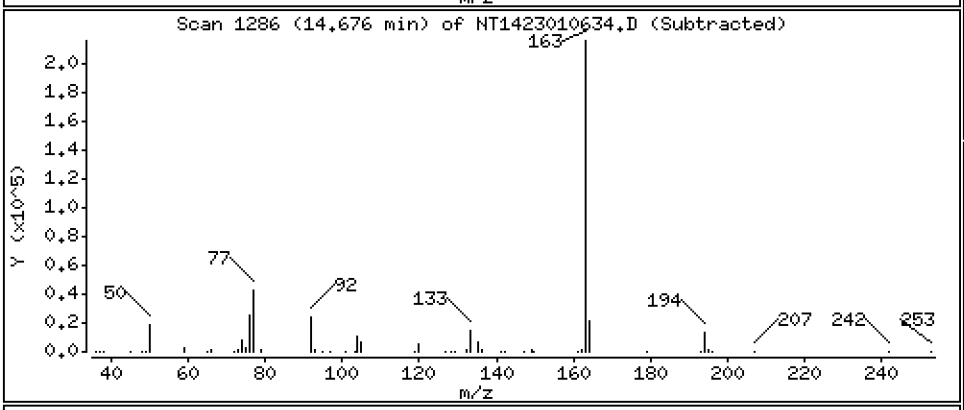
Column diameter: 0.25

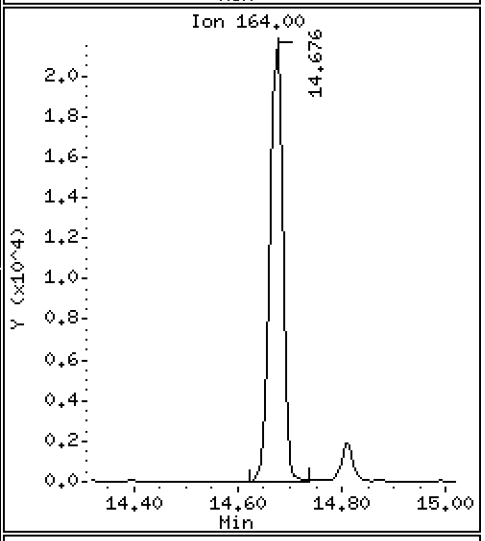
39 Dimethylphthalate

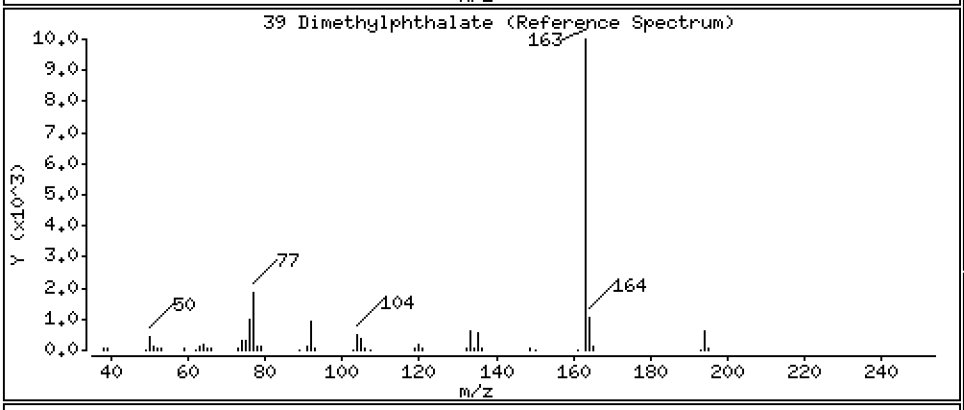
Concentration: 5.818 ug/mL

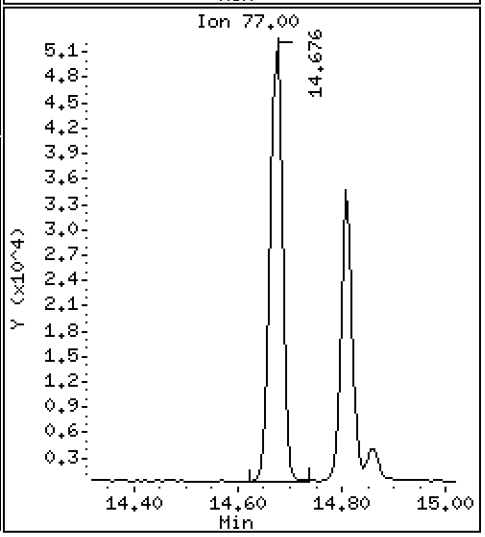


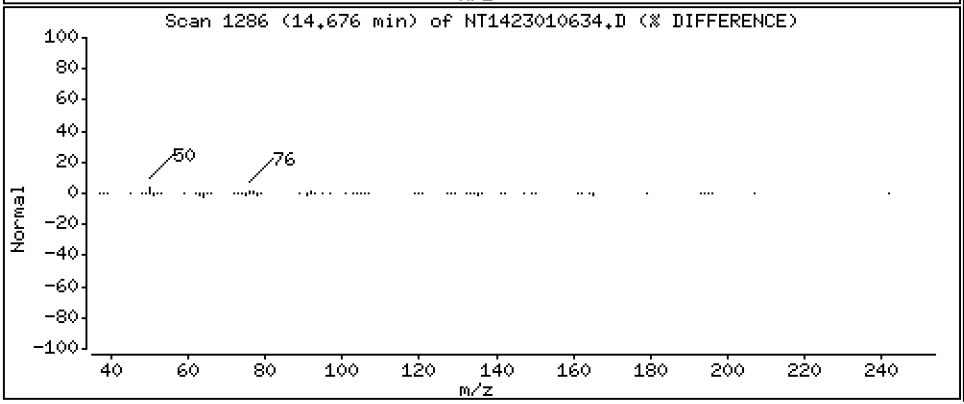












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

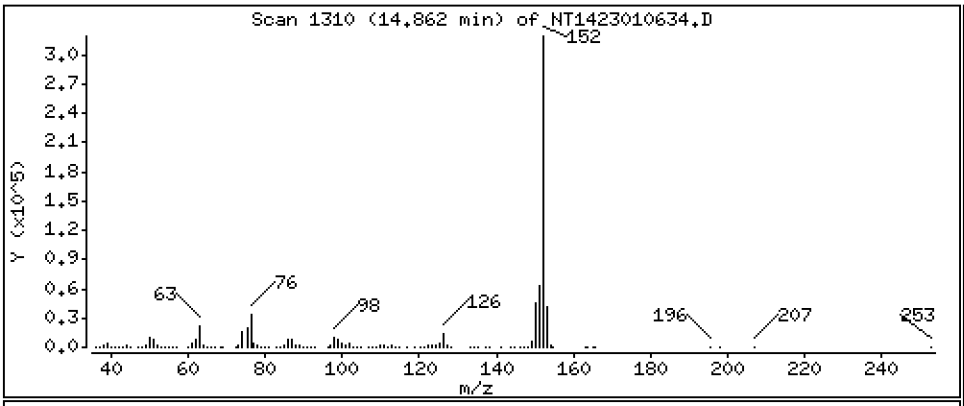
Operator: VTS

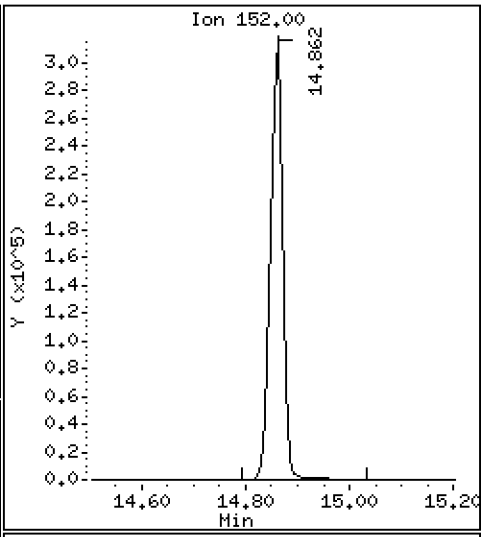
Column phase: ZB-5msi

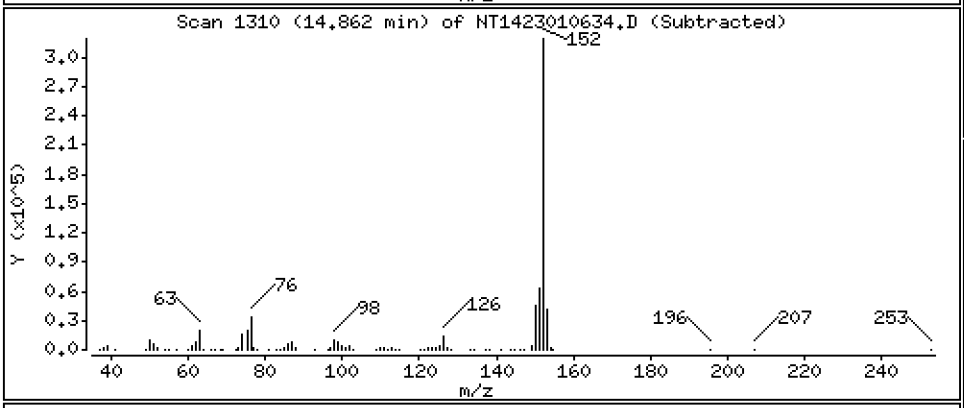
Column diameter: 0.25

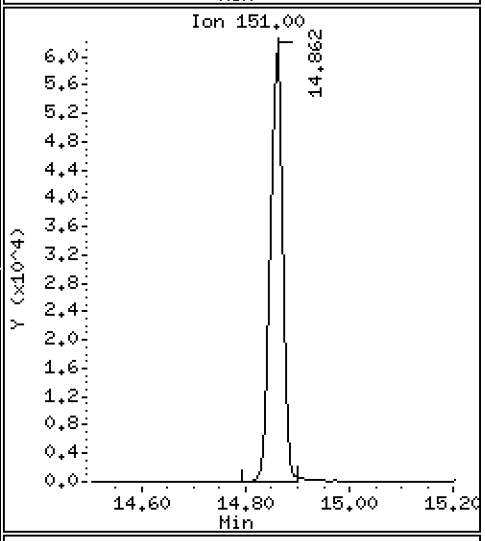
40 Acenaphthylene

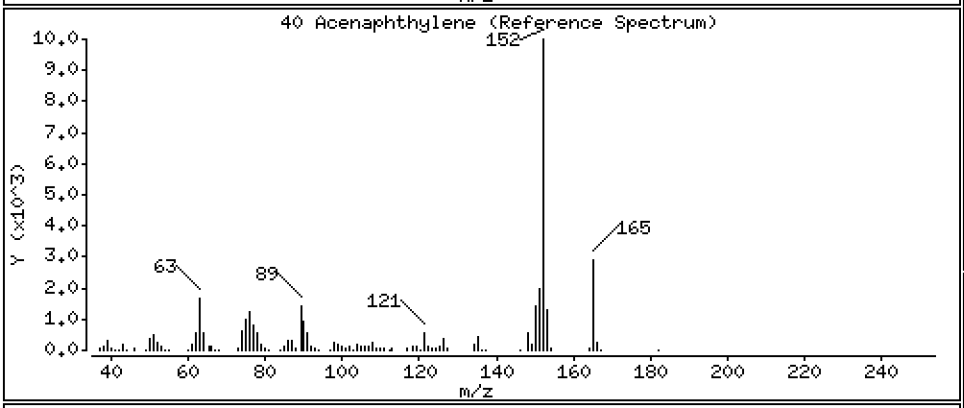
Concentration: 6.043 ug/mL

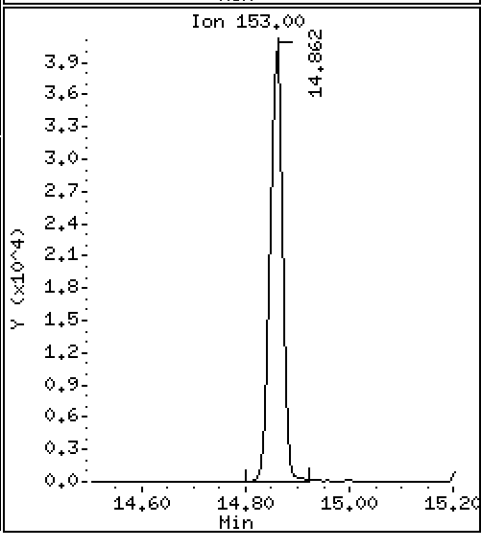


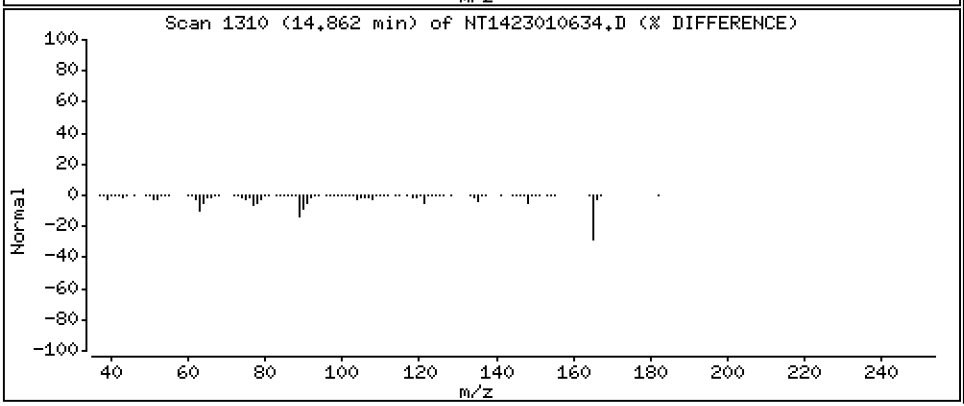












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

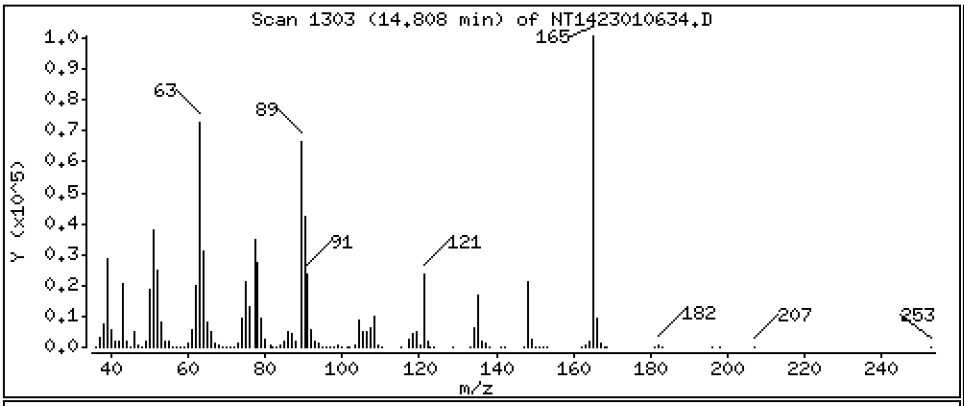
Operator: VTS

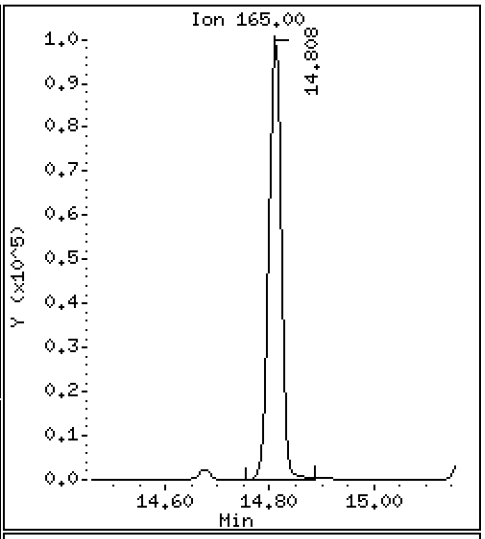
Column phase: ZB-5msi

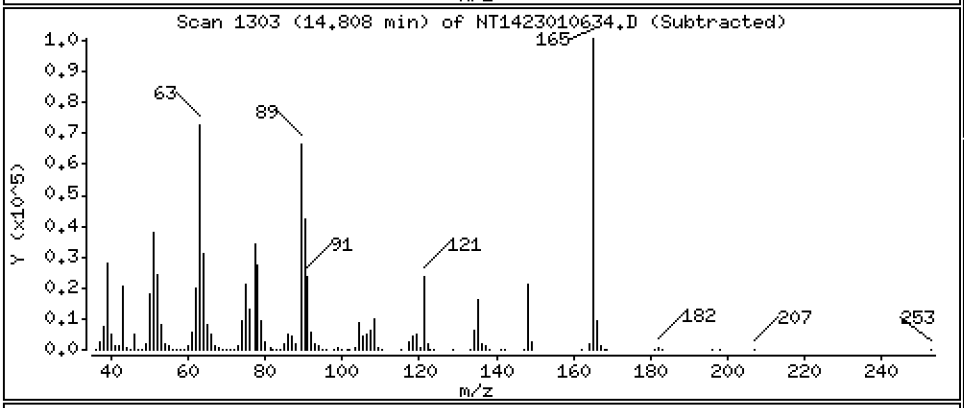
Column diameter: 0.25

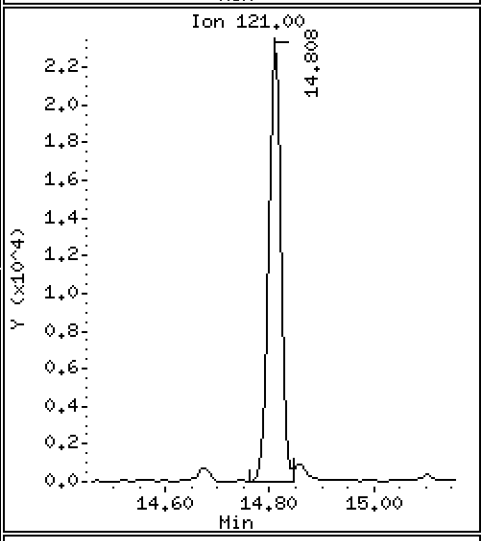
41 2,6-Dinitrotoluene

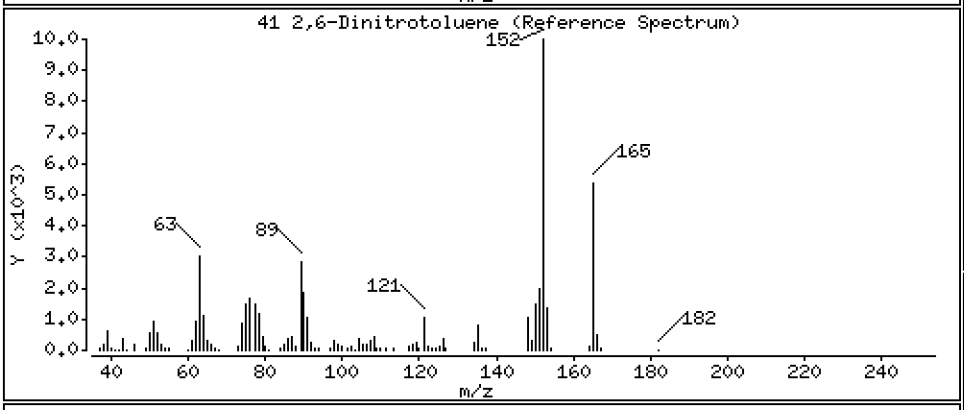
Concentration: 12.18 ug/mL

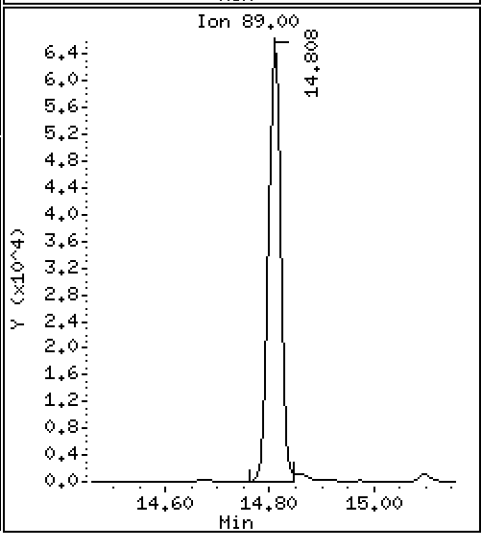


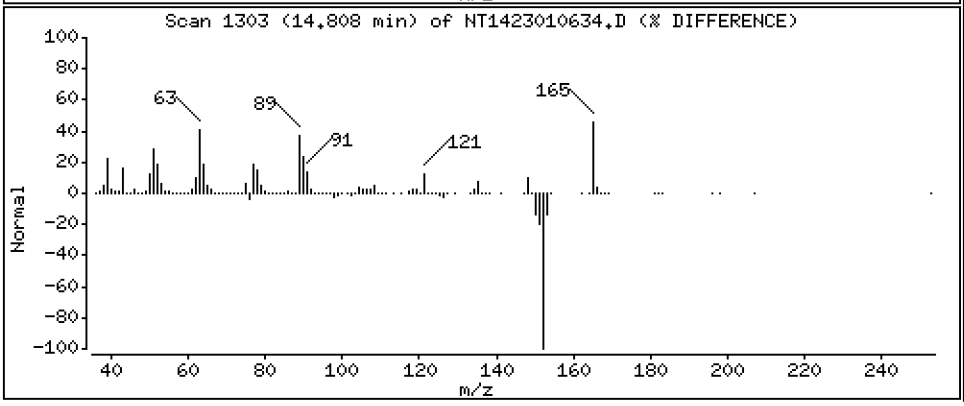












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

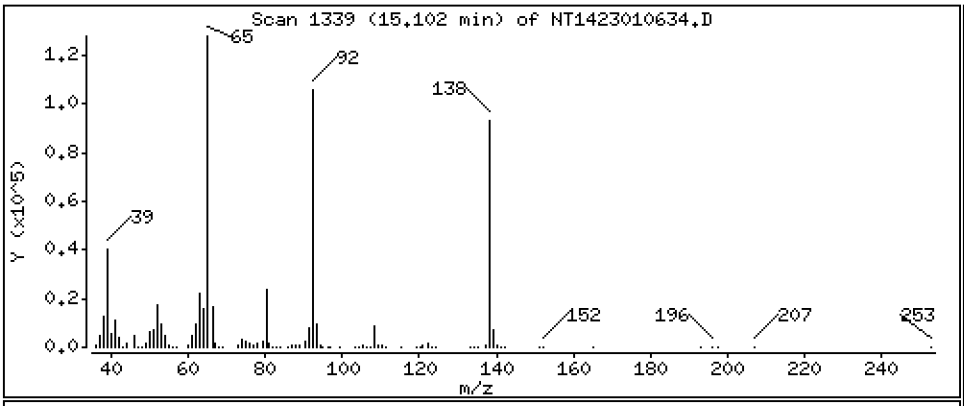
Operator: VTS

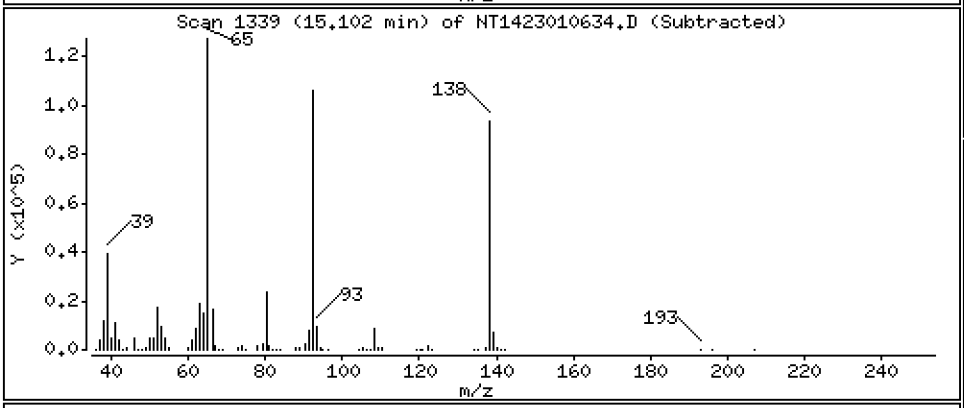
Column phase: ZB-5msi

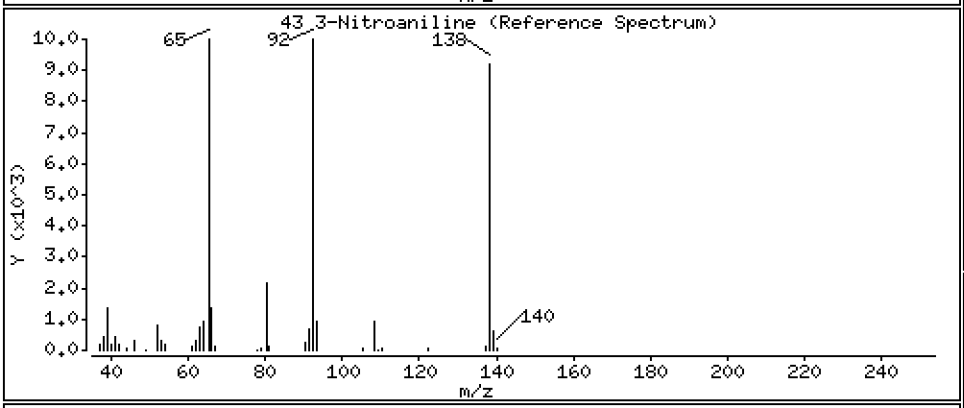
Column diameter: 0.25

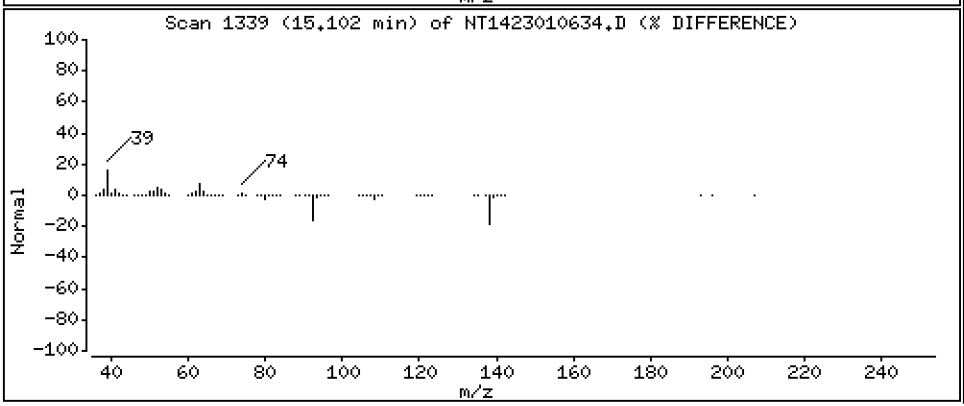
43 3-Nitroaniline

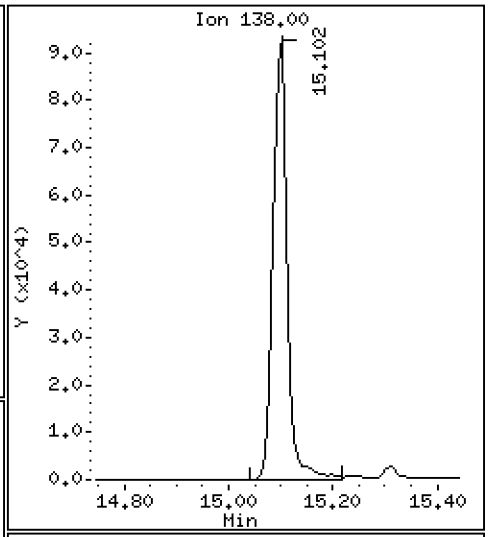
Concentration: 10.68 ug/mL

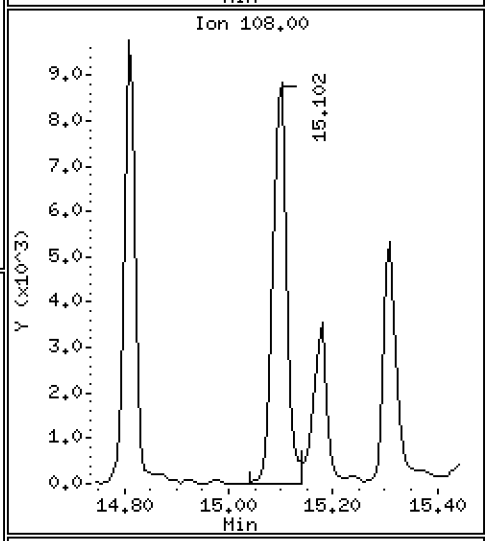


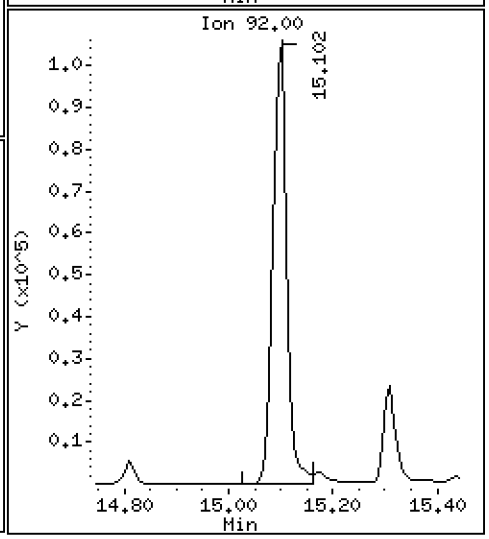












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

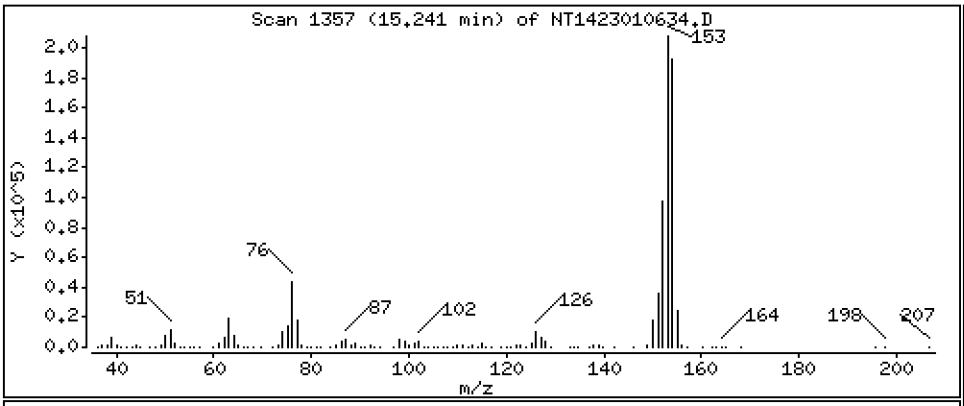
Operator: VTS

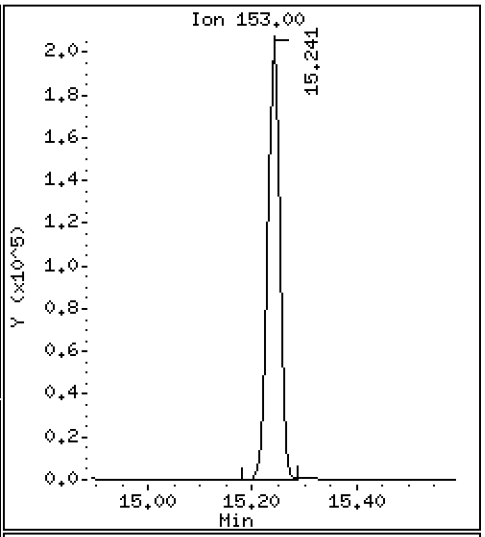
Column phase: ZB-5msi

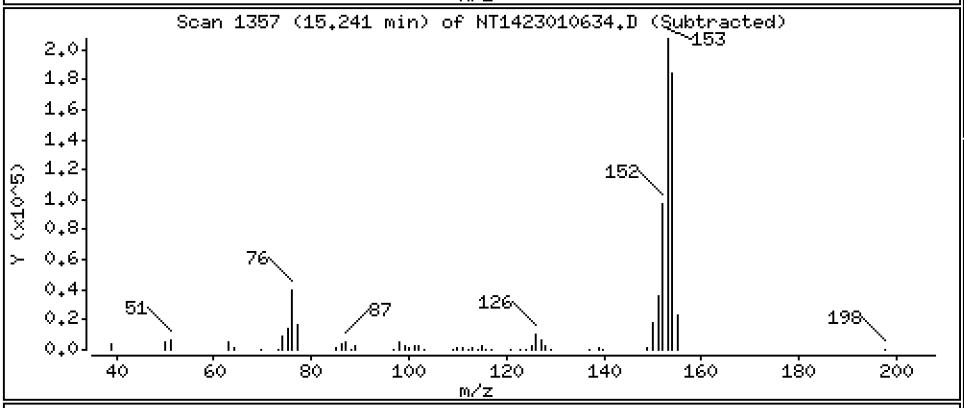
Column diameter: 0.25

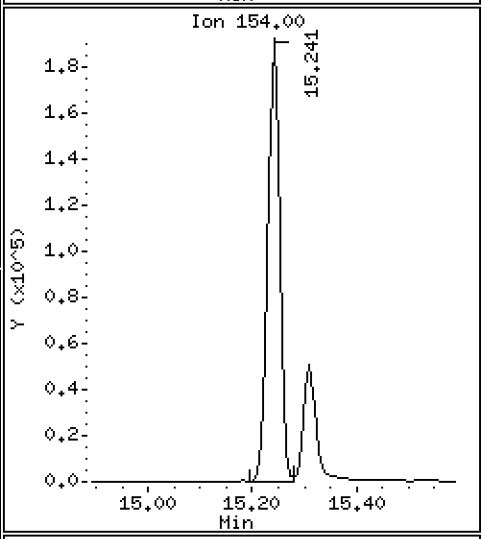
44 Acenaphthene

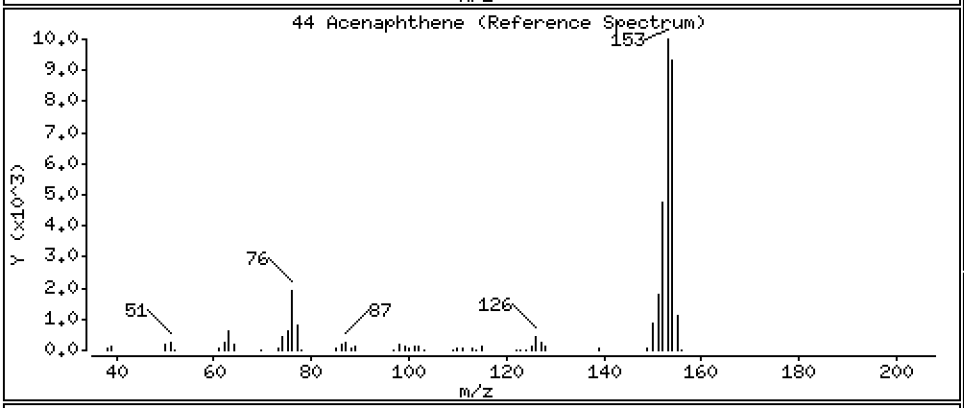
Concentration: 5.674 ug/mL

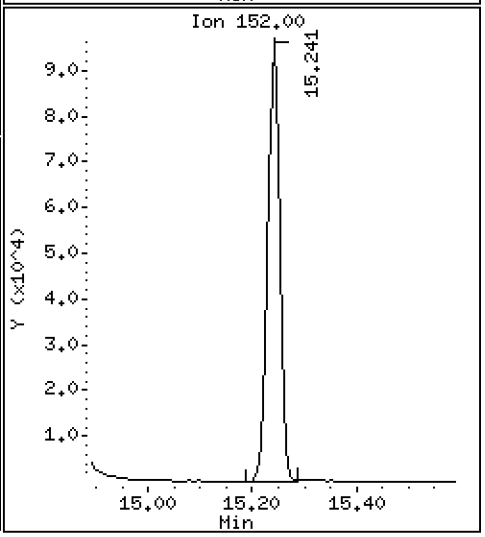


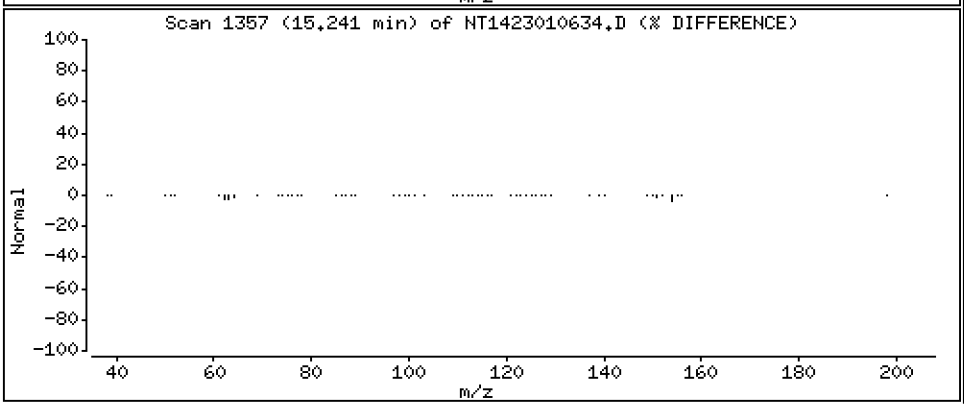












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

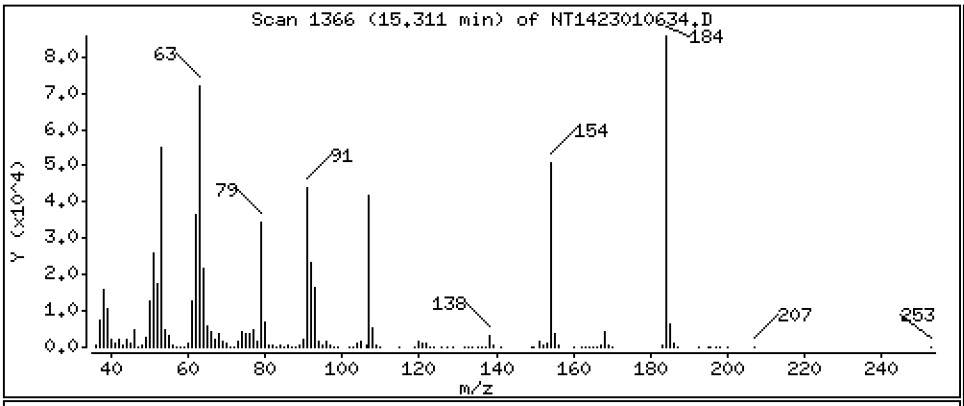
Operator: VTS

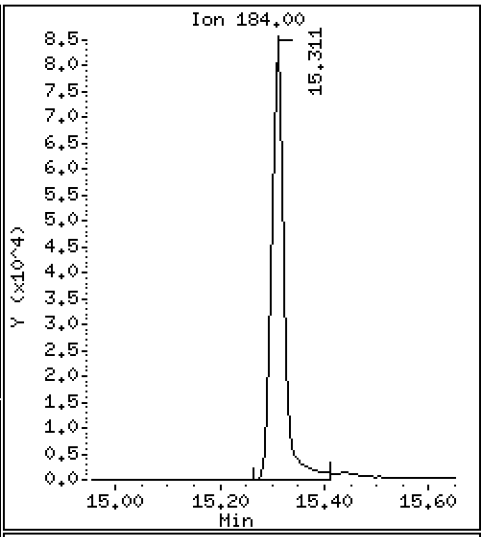
Column phase: ZB-5msi

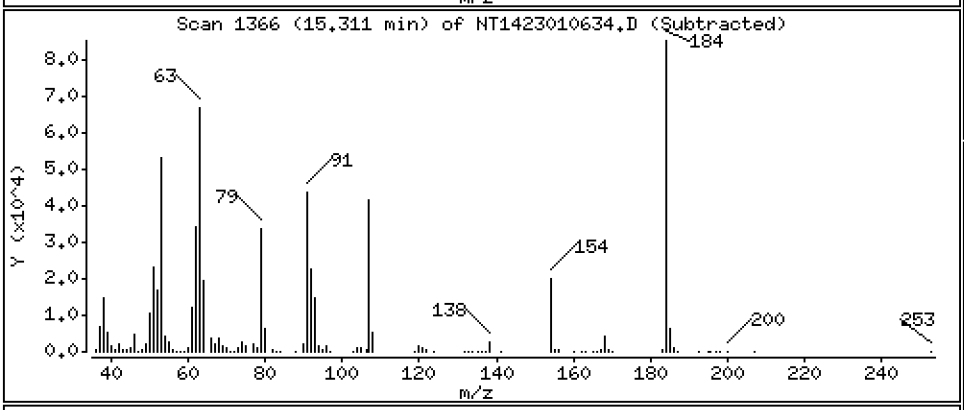
Column diameter: 0.25

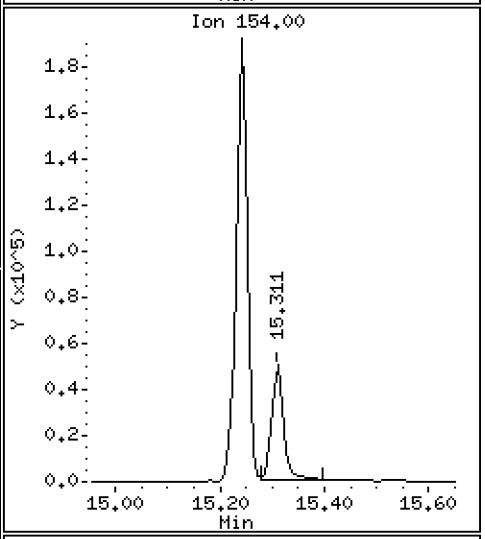
45 2,4-Dinitrophenol

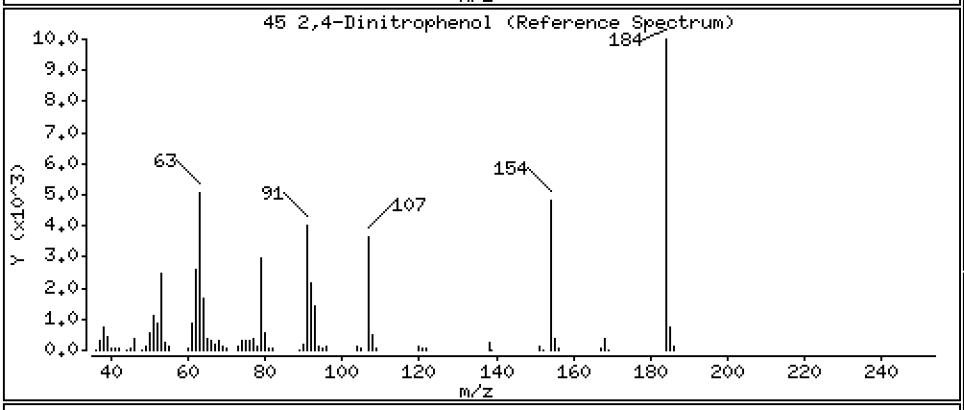
Concentration: 12.24 ug/mL

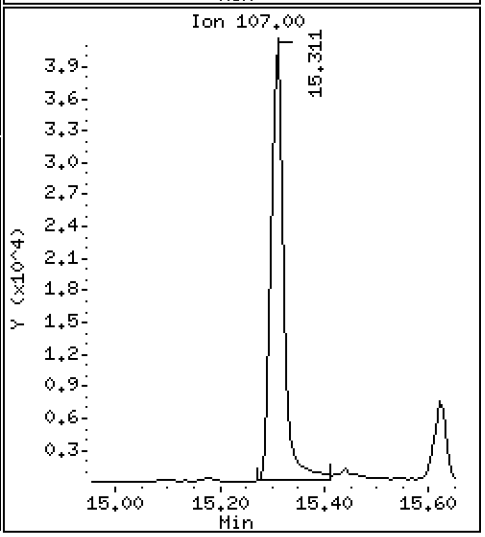


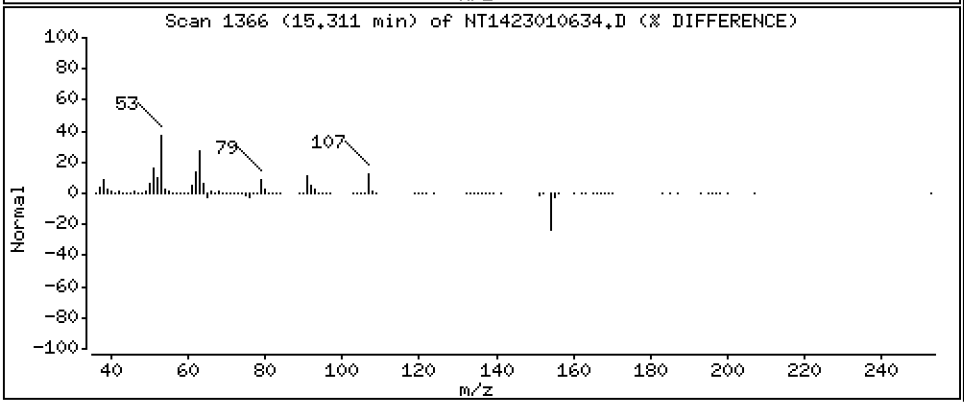












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

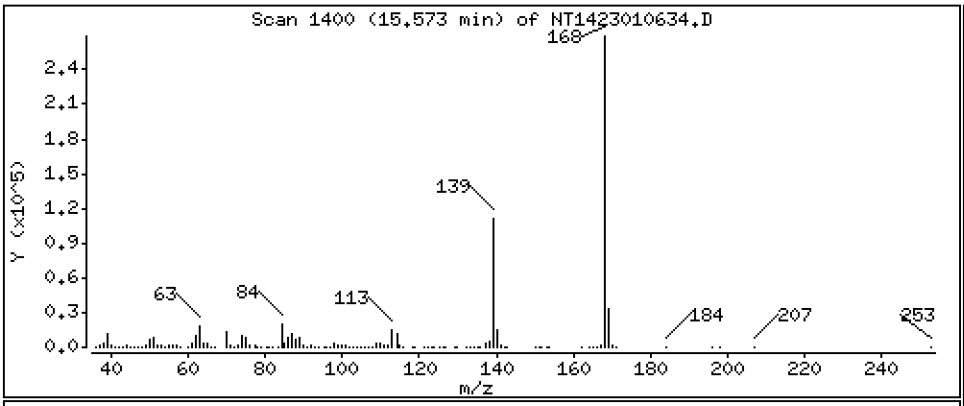
Operator: VTS

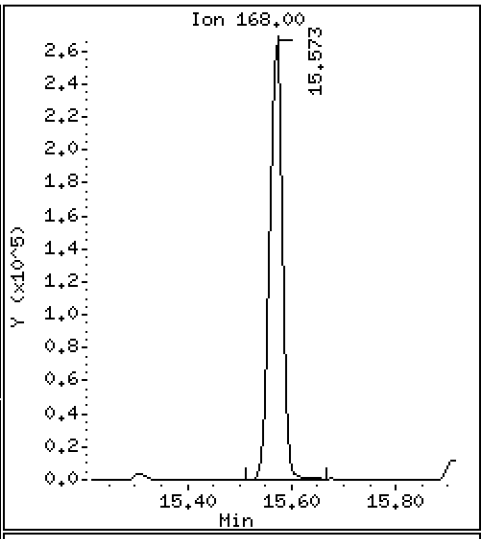
Column phase: ZB-5msi

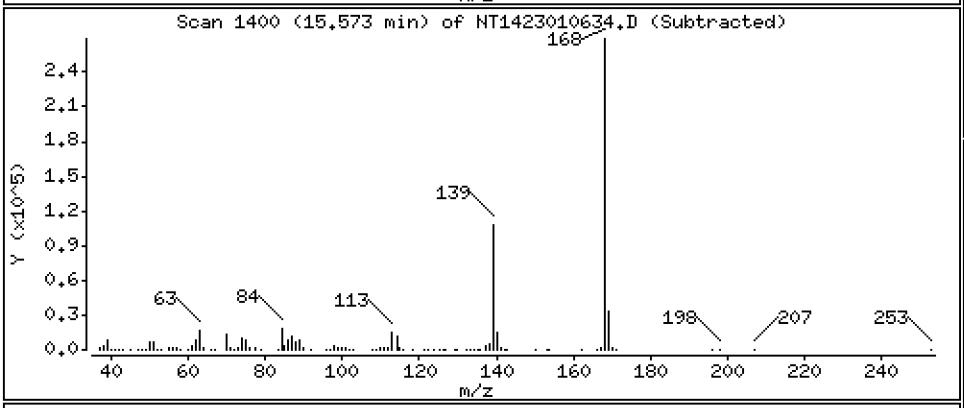
Column diameter: 0.25

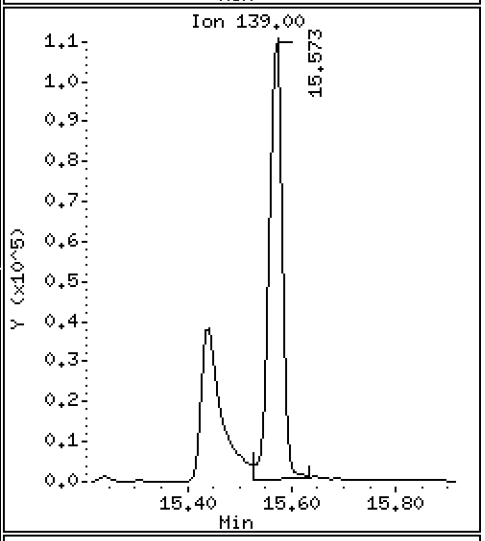
46 Dibenzofuran

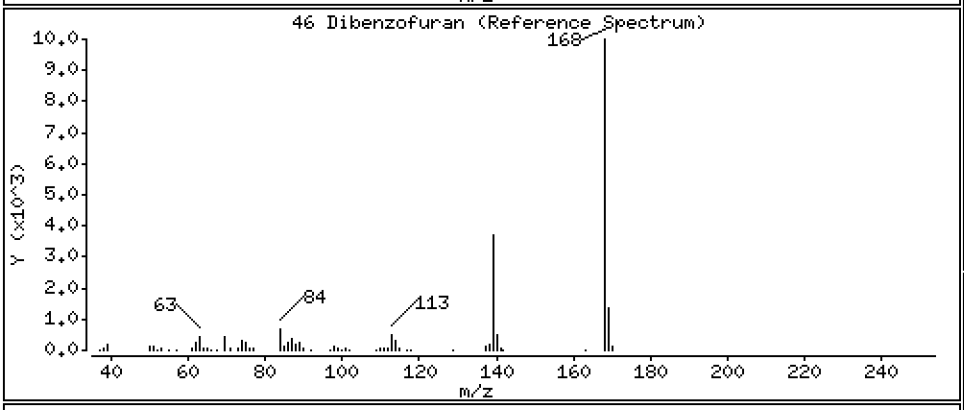
Concentration: 5.285 ug/mL

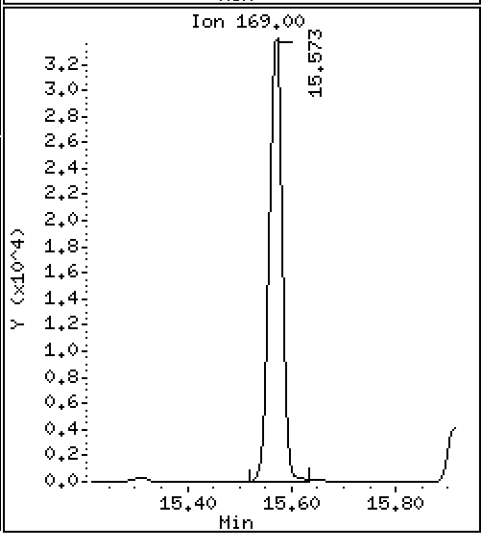


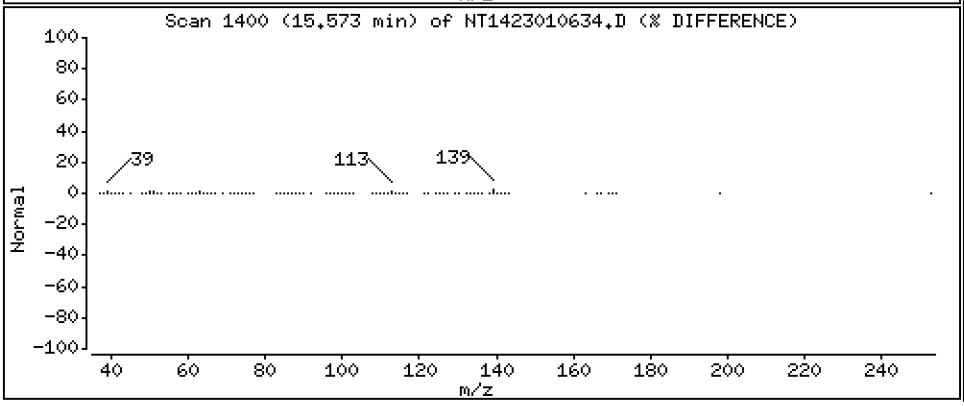












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

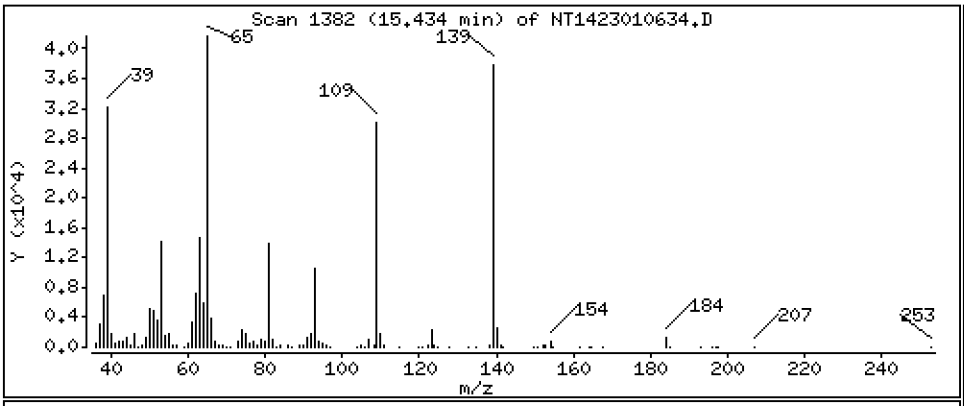
Operator: VTS

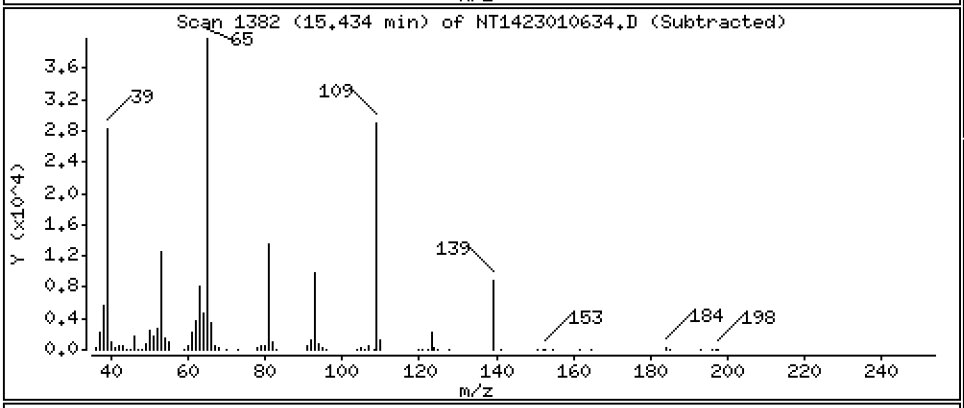
Column phase: ZB-5msi

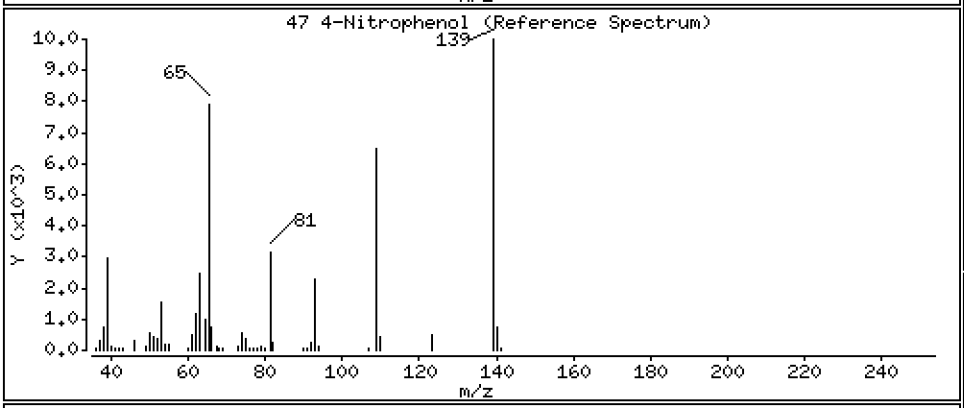
Column diameter: 0.25

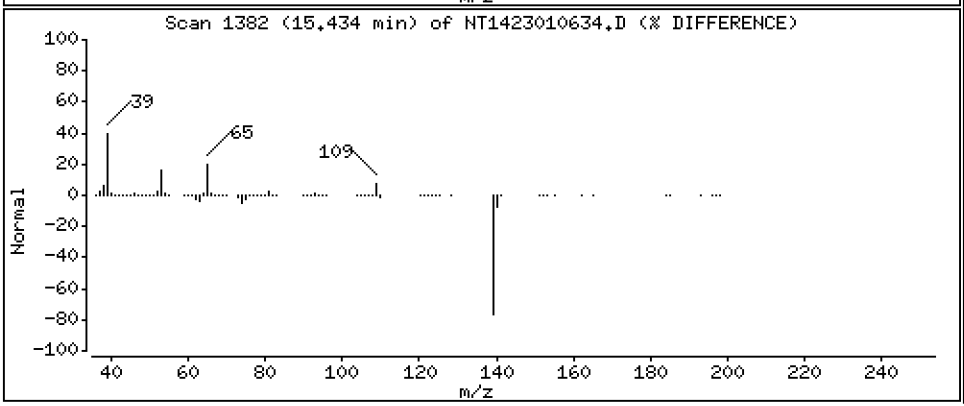
47 4-Nitrophenol

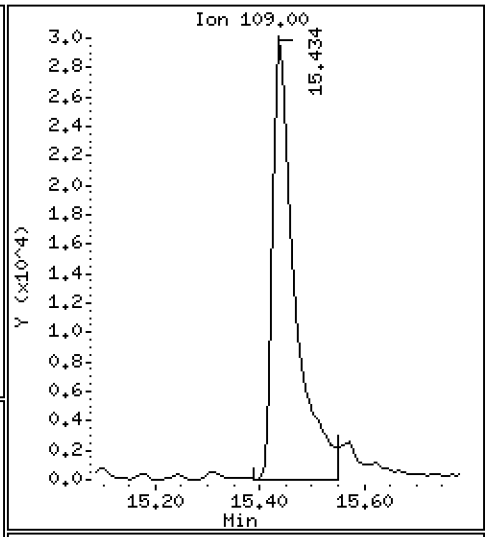
Concentration: 11.35 ug/mL

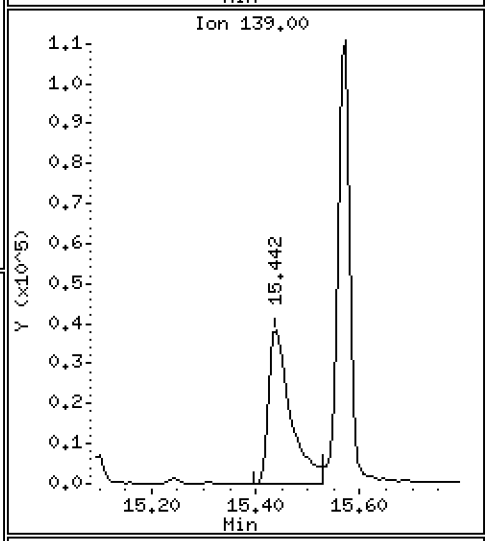


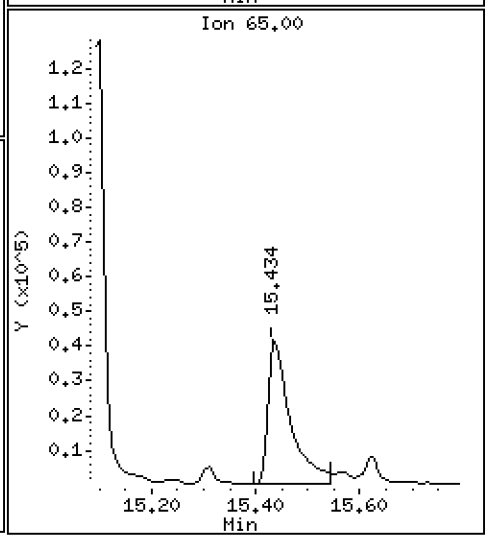












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

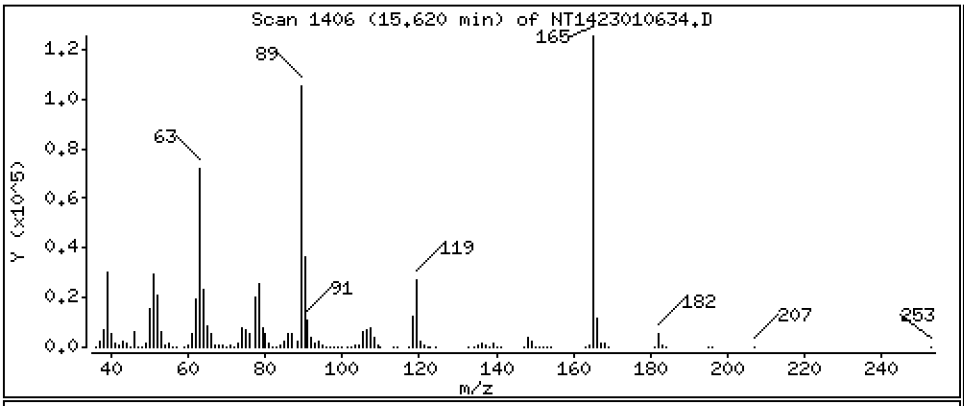
Operator: VTS

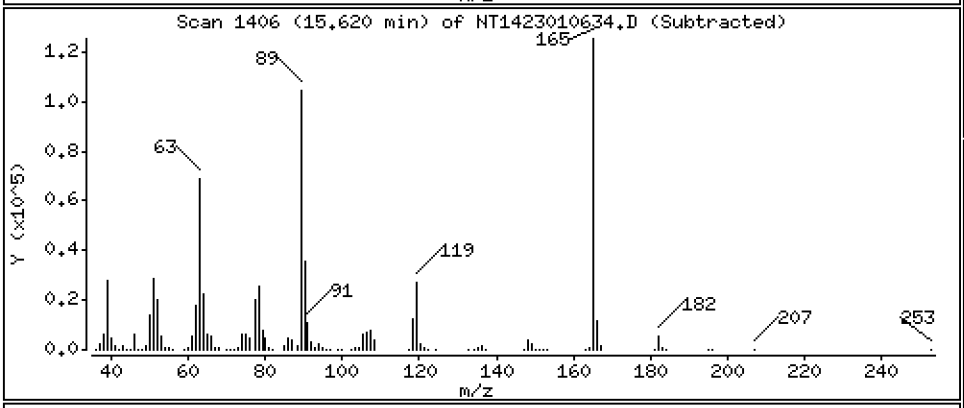
Column phase: ZB-5msi

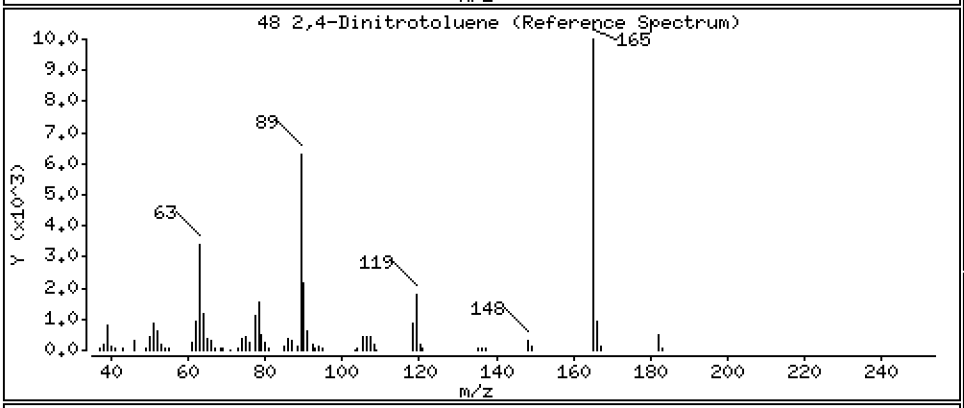
Column diameter: 0.25

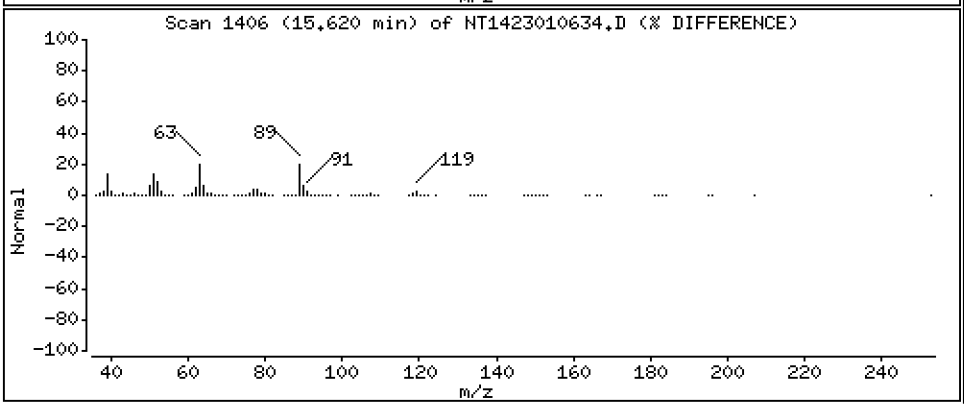
48 2,4-Dinitrotoluene

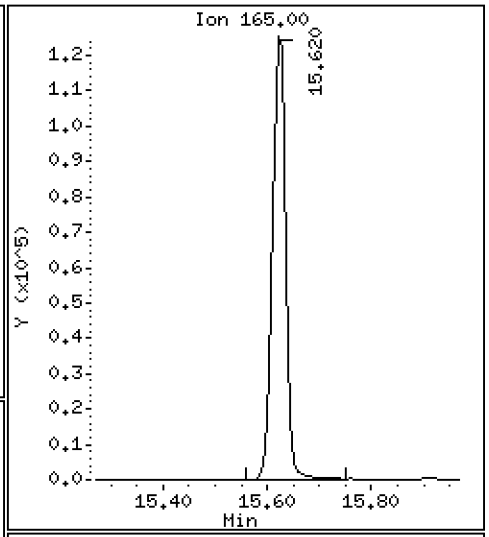
Concentration: 11.90 ug/mL

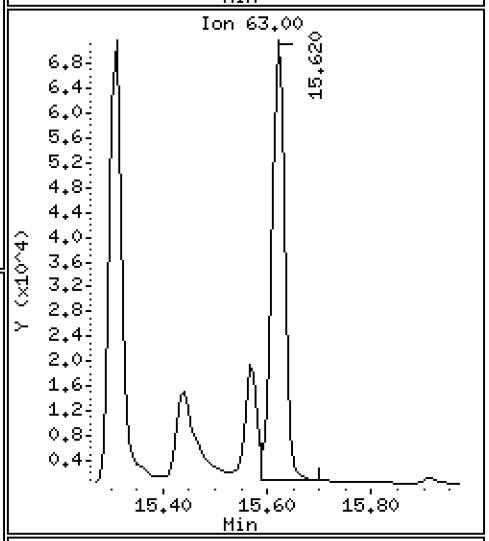


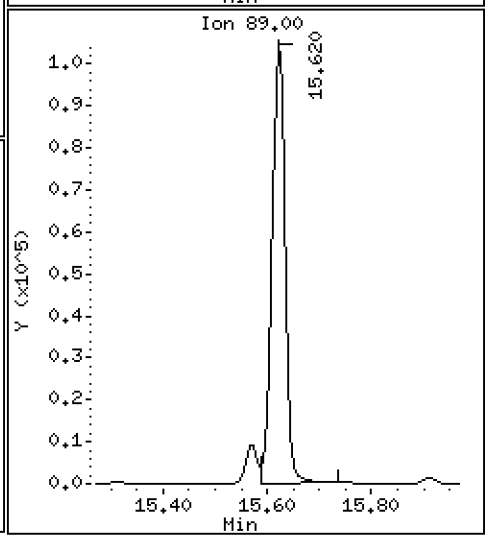












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

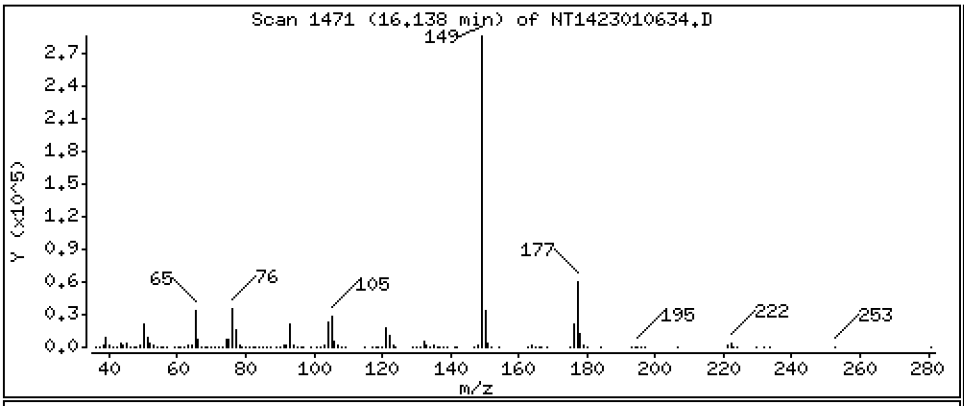
Operator: VTS

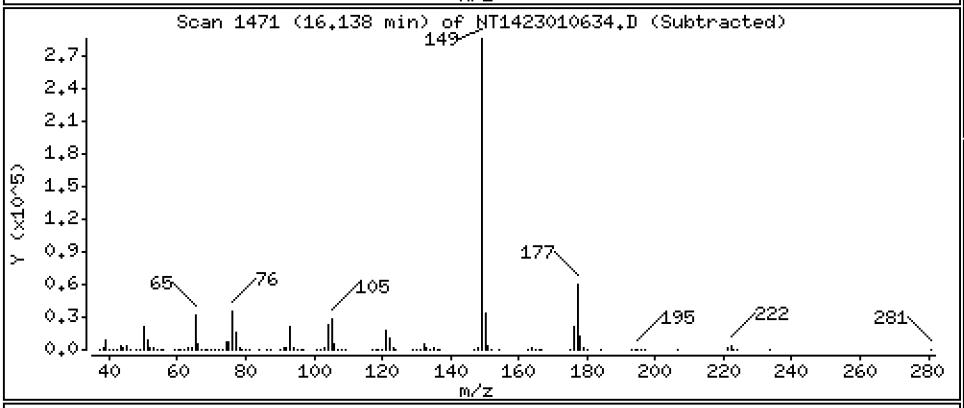
Column phase: ZB-5msi

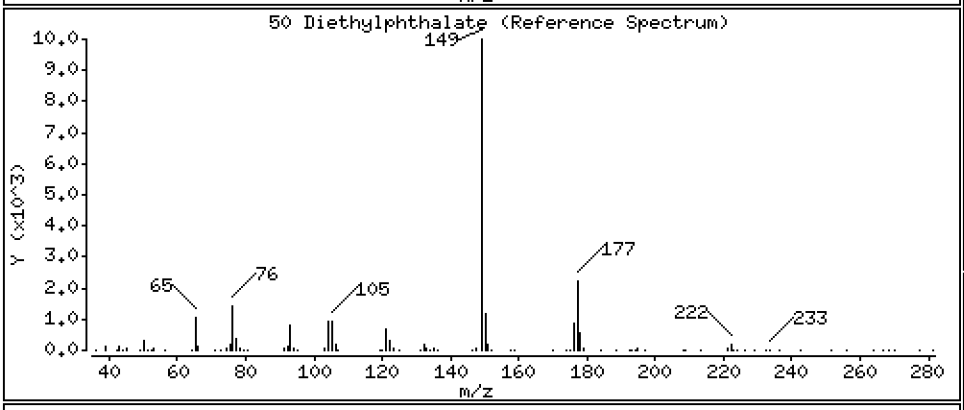
Column diameter: 0.25

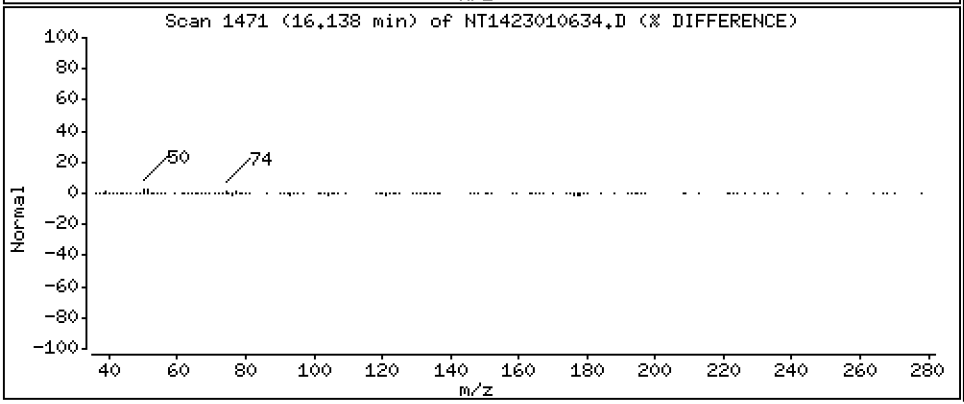
50 Diethylphthalate

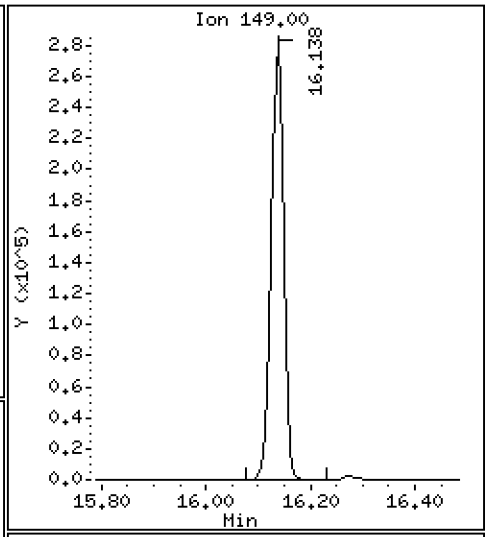
Concentration: 6.287 ug/mL

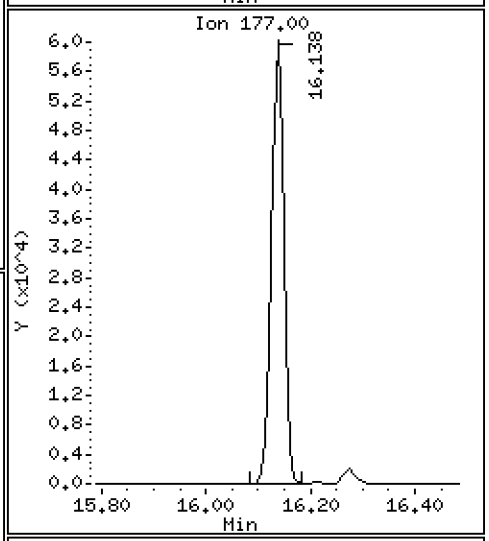


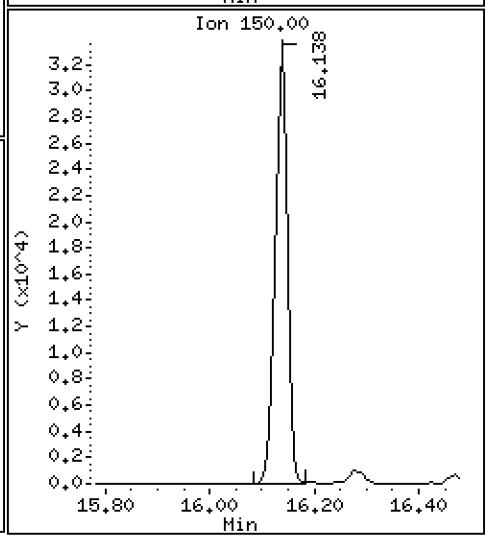












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

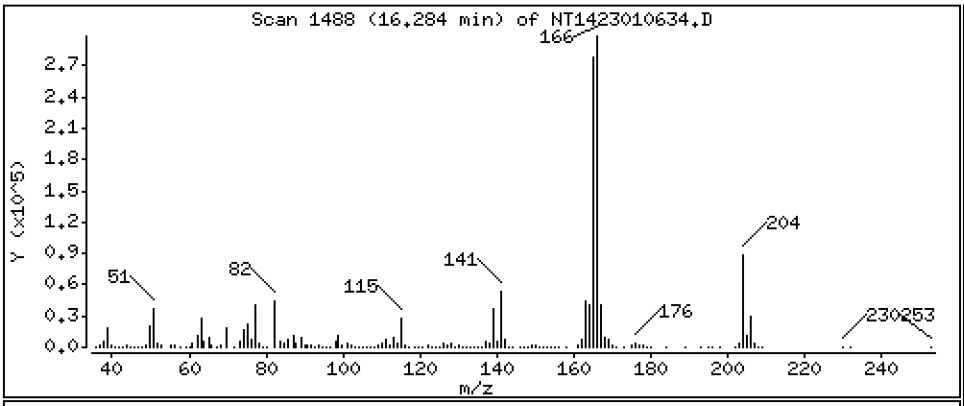
Operator: VTS

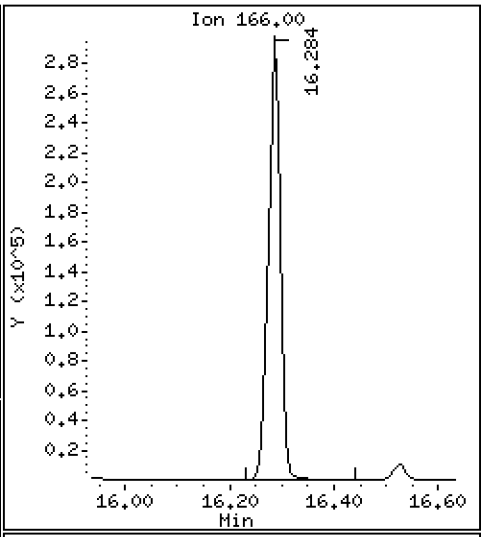
Column phase: ZB-5msi

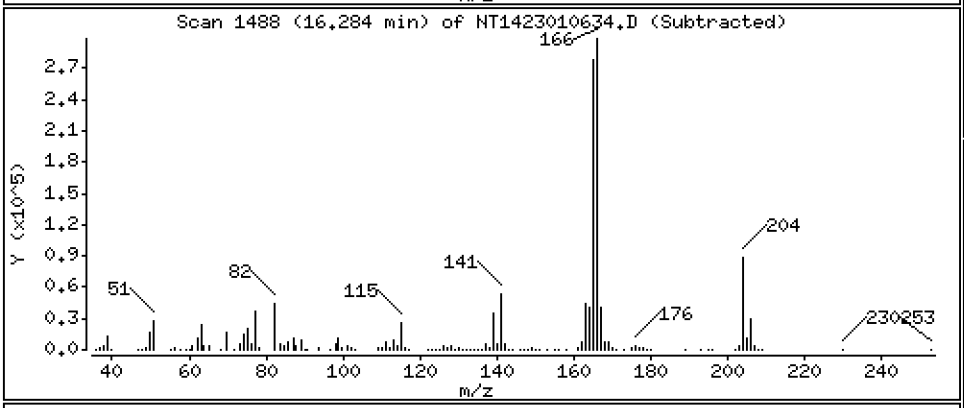
Column diameter: 0.25

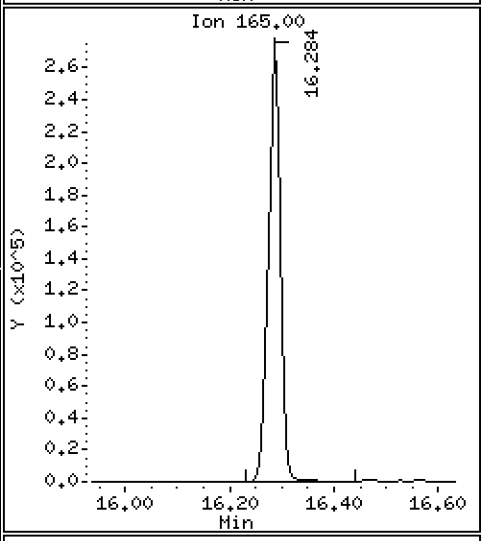
49 Fluorene

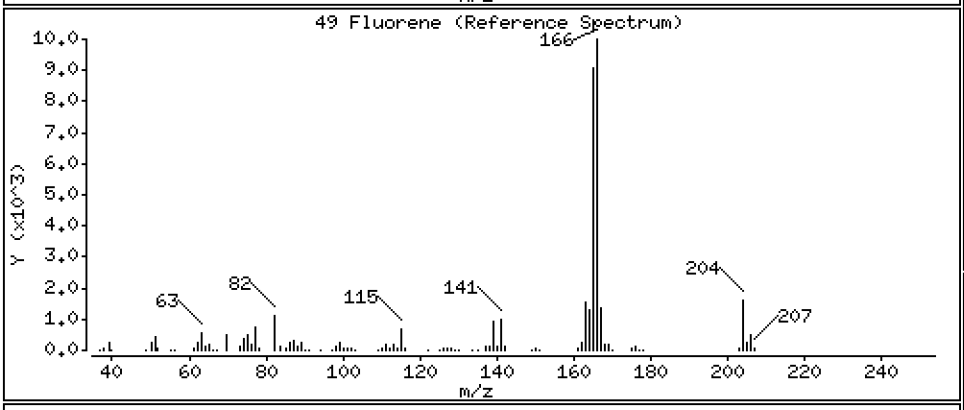
Concentration: 5.288 ug/mL

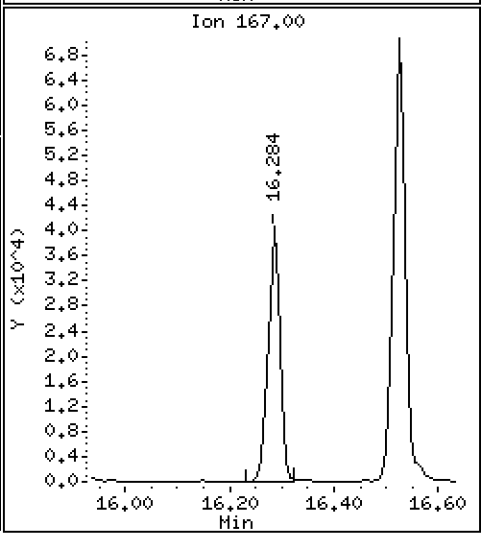


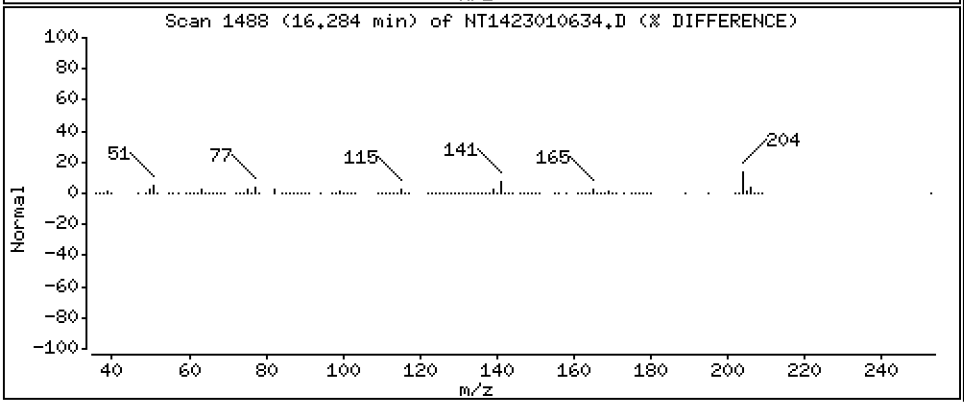












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

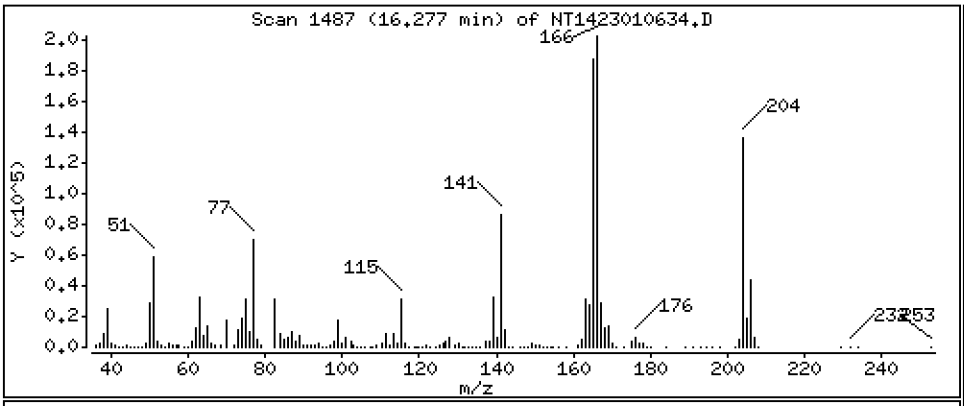
Operator: VTS

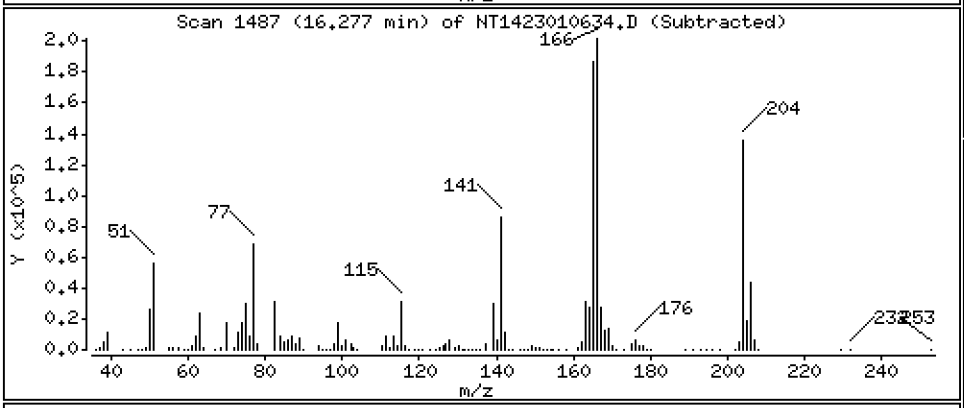
Column phase: ZB-5msi

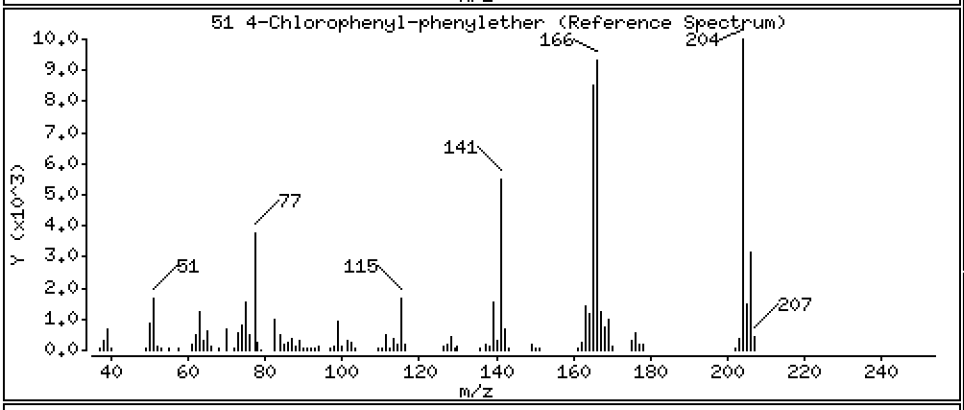
Column diameter: 0.25

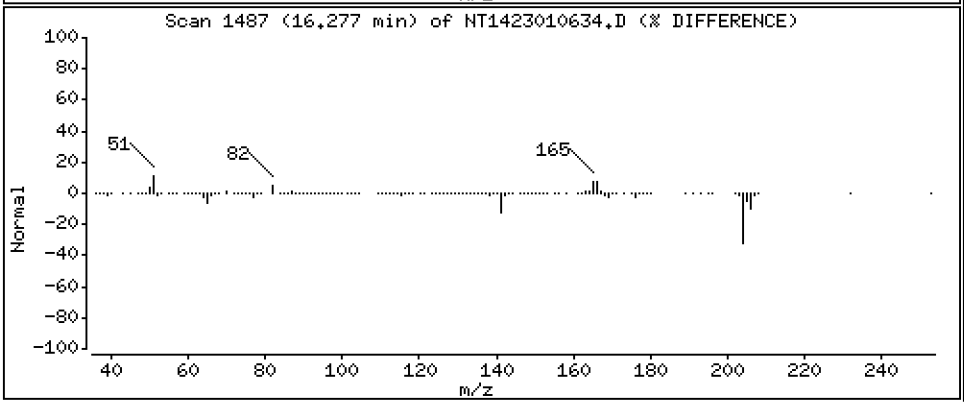
51 4-Chlorophenyl-phenylether

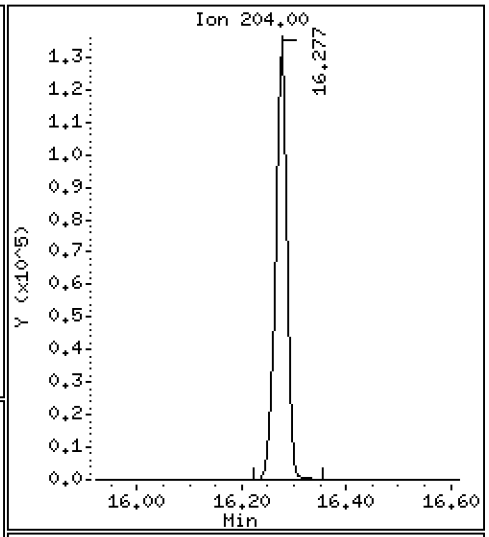
Concentration: 4.803 ug/mL

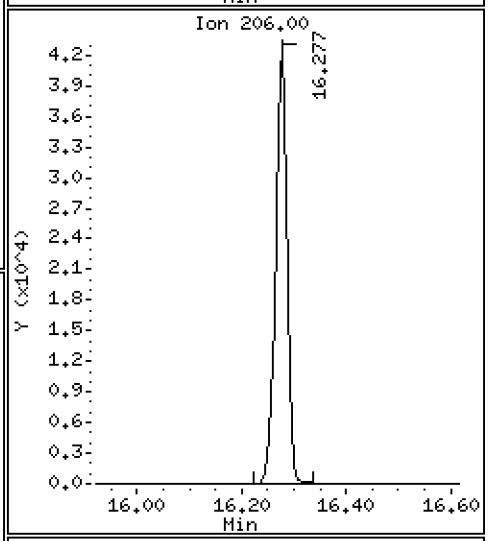


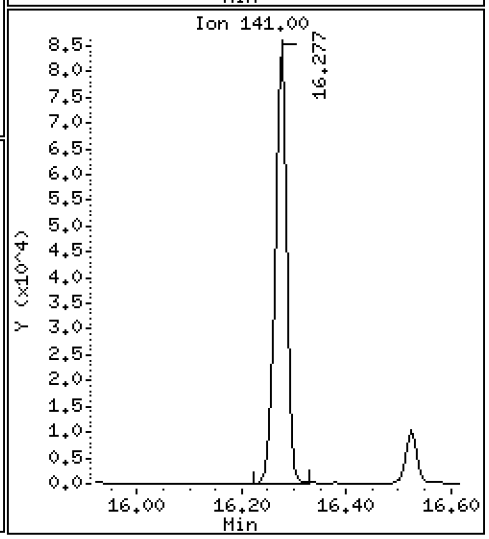












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

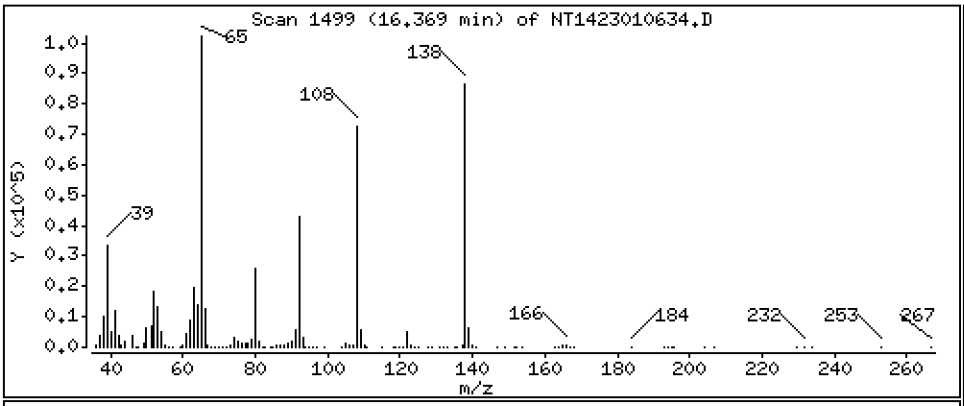
Operator: VTS

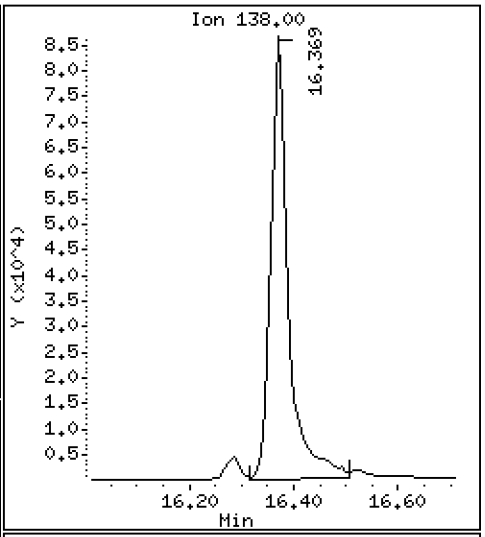
Column phase: ZB-5msi

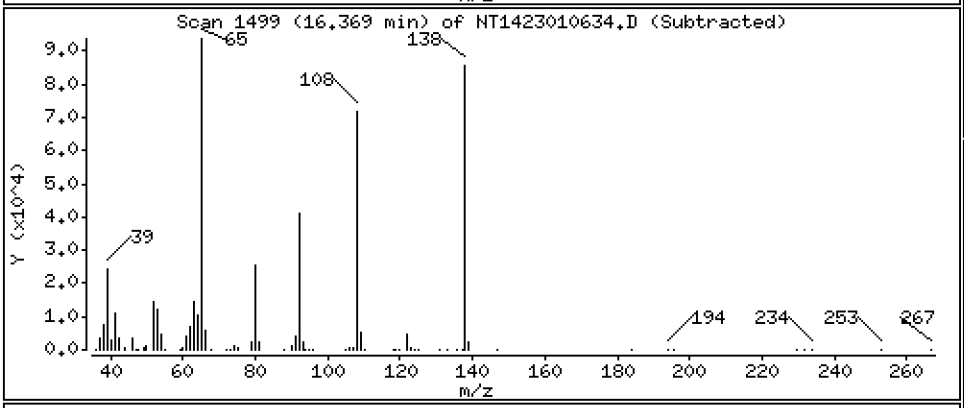
Column diameter: 0.25

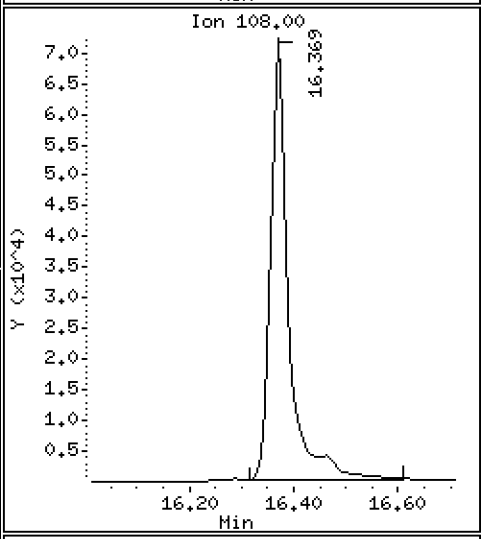
52 4-Nitroaniline

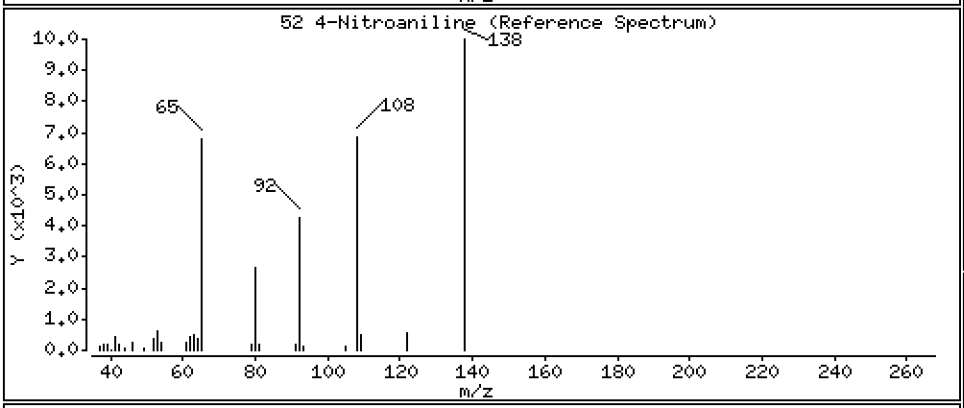
Concentration: 10.27 ug/mL

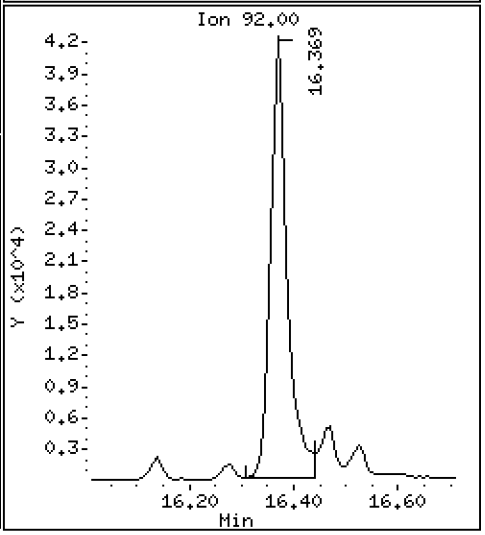


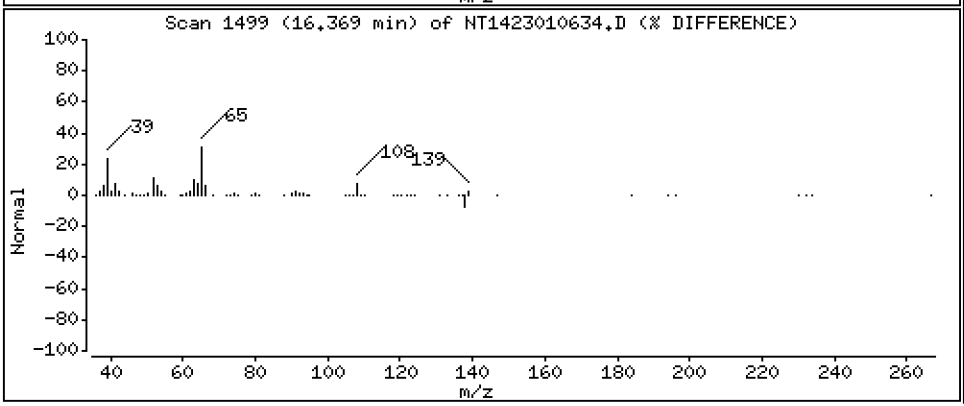












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

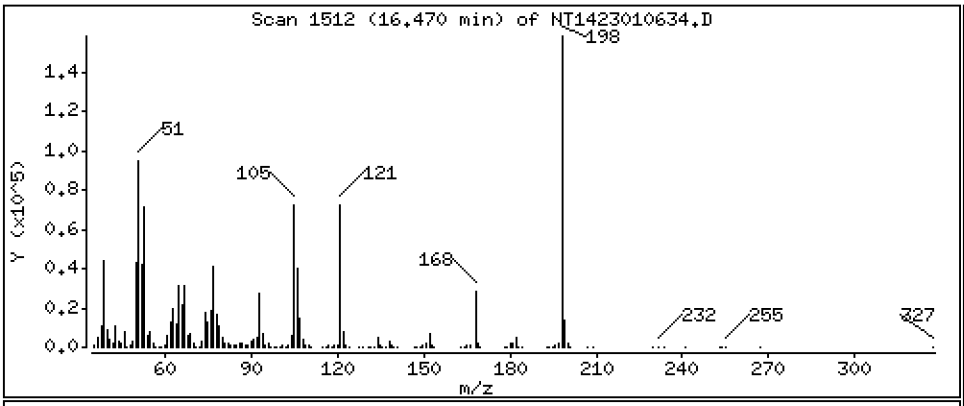
Operator: VTS

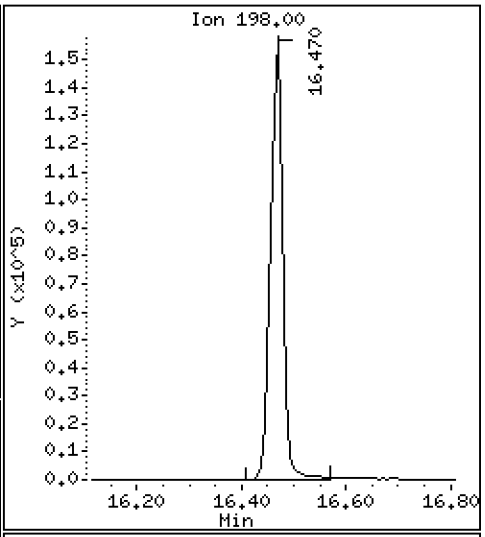
Column phase: ZB-5msi

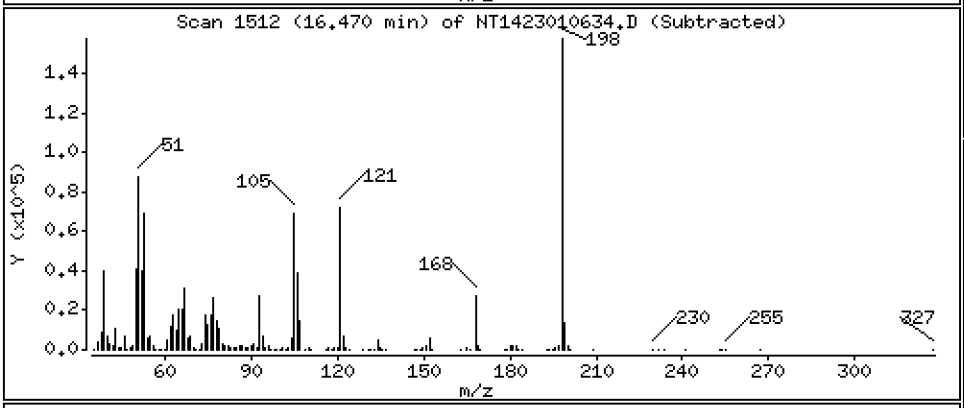
Column diameter: 0.25

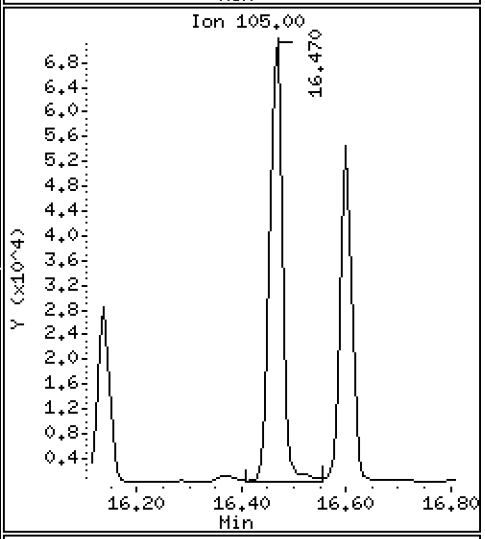
53 4,6-Dinitro-2-methylphenol

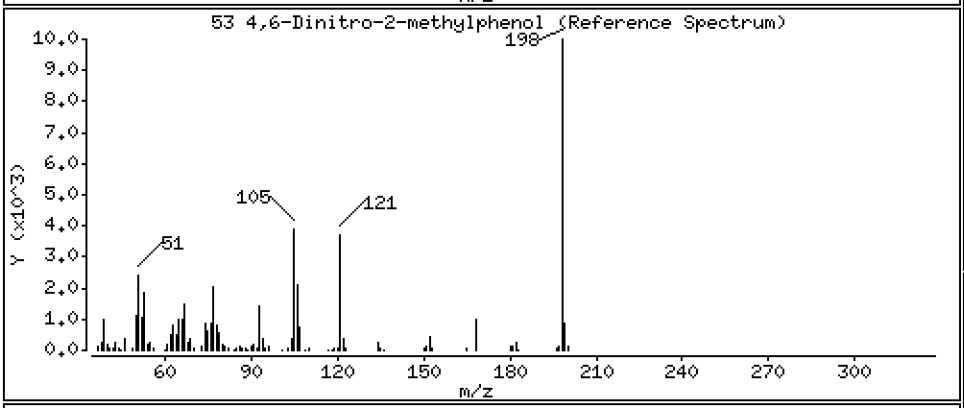
Concentration: 17.06 ug/mL

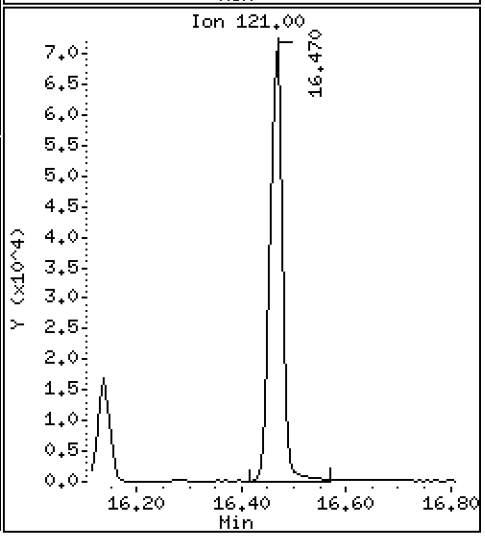


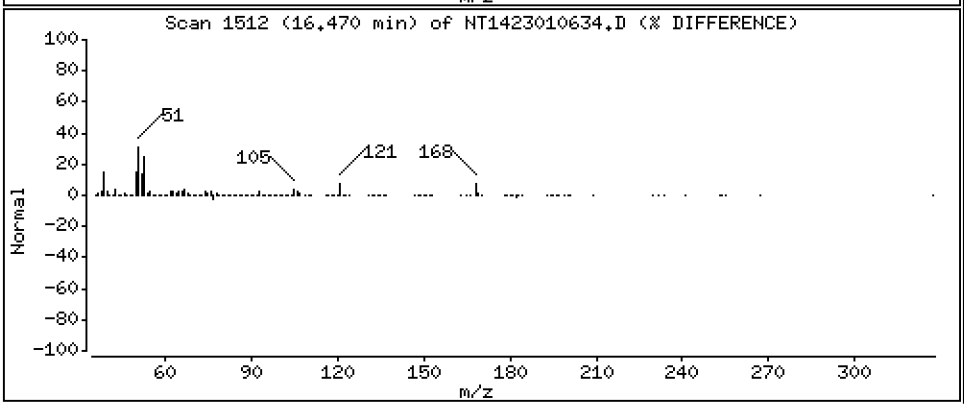












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

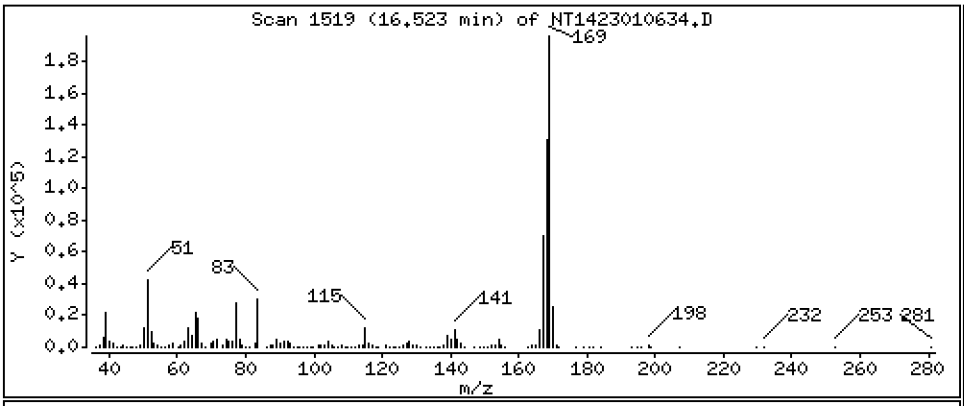
Operator: VTS

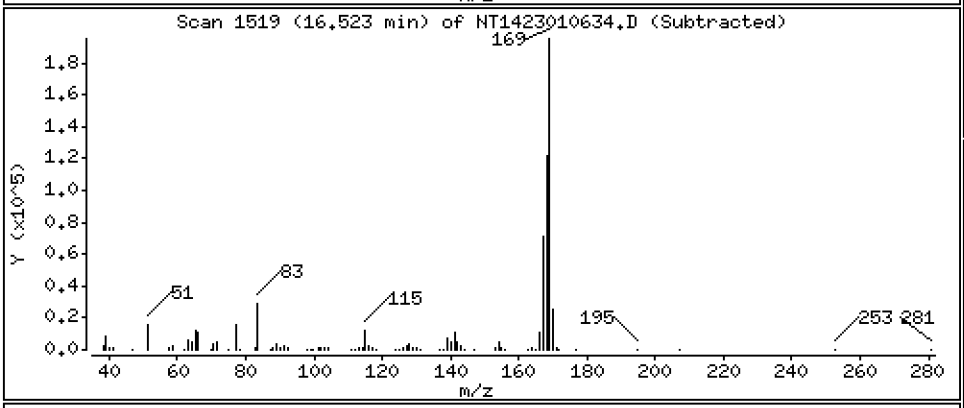
Column phase: ZB-5msi

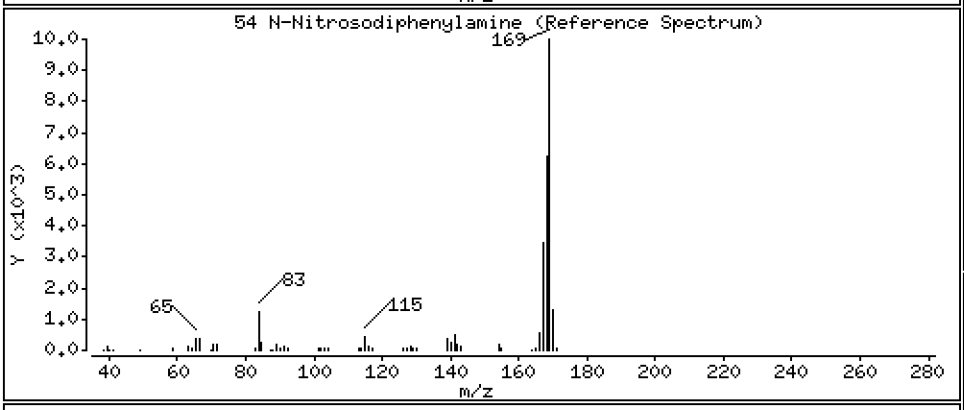
Column diameter: 0.25

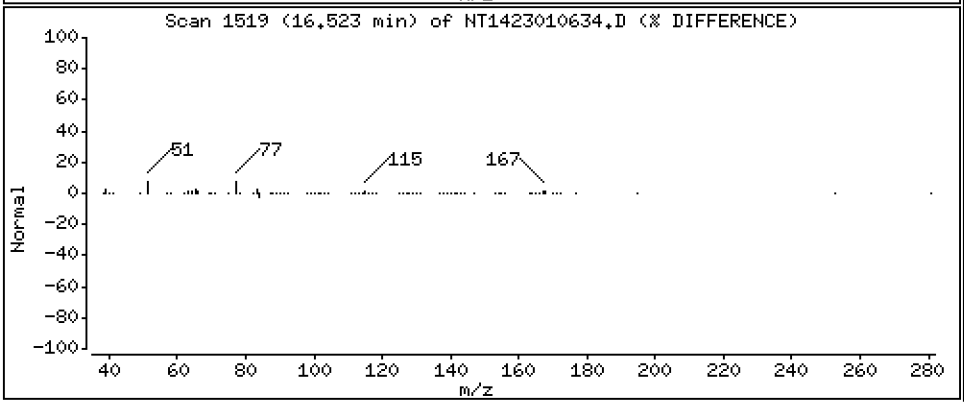
54 N-Nitrosodiphenylamine

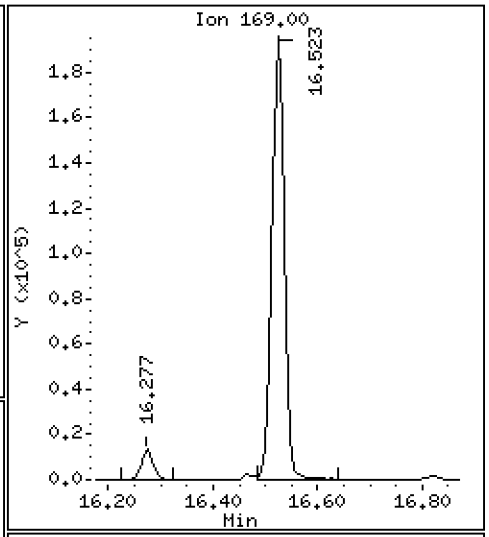
Concentration: 5.276 ug/mL

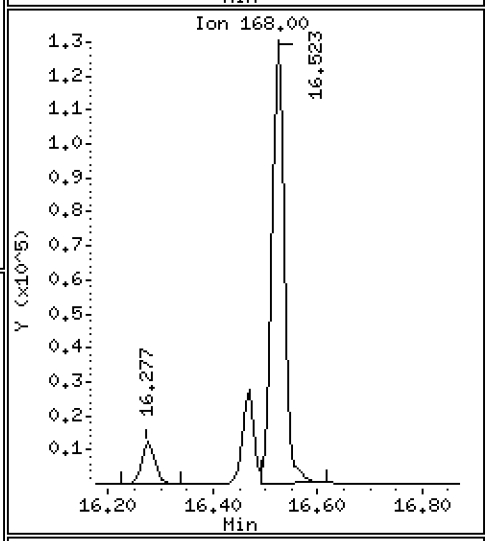


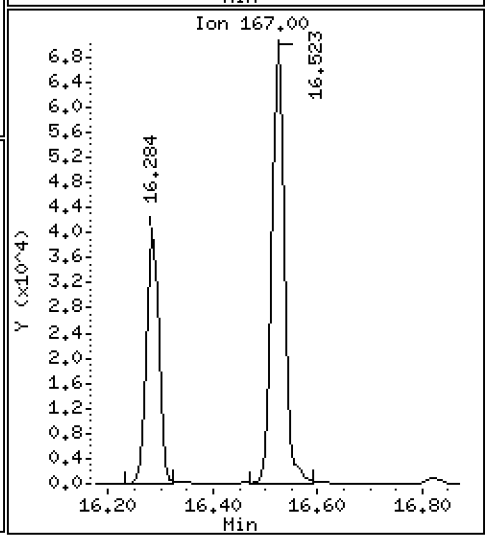












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

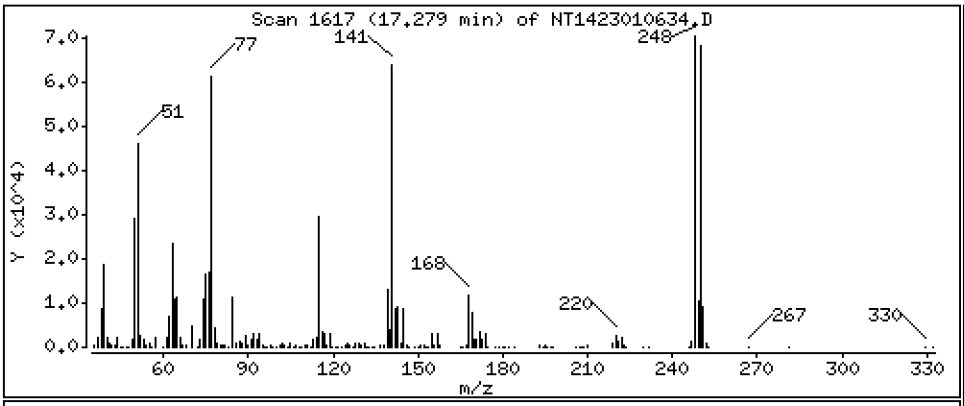
Operator: VTS

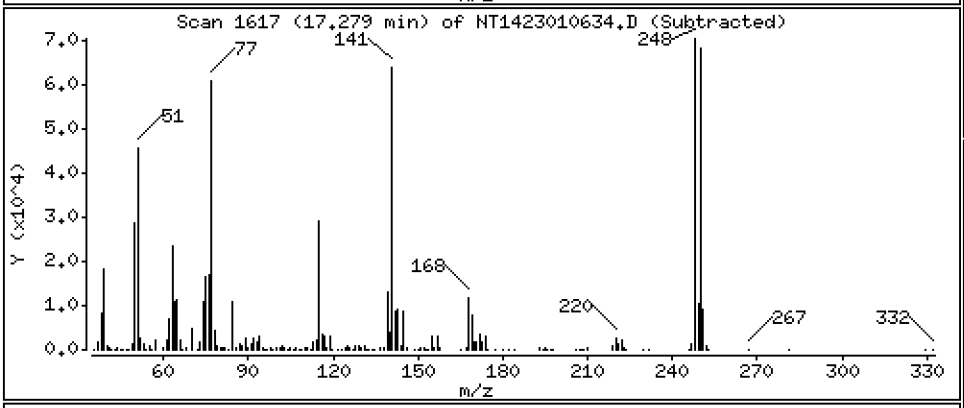
Column phase: ZB-5msi

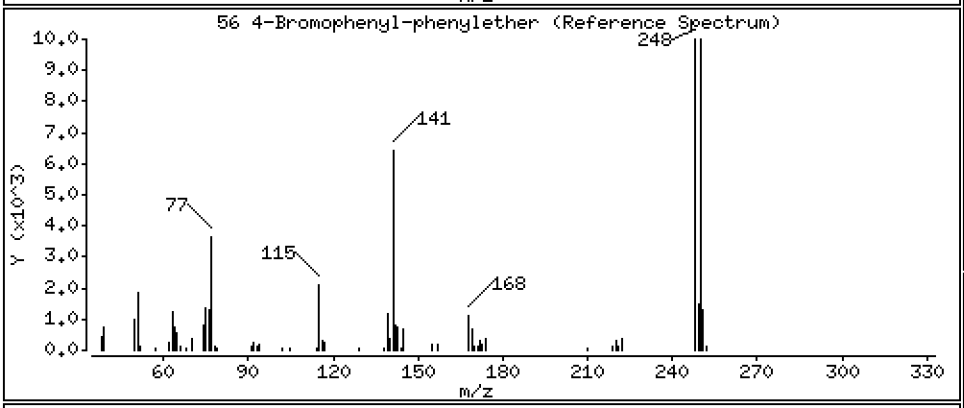
Column diameter: 0.25

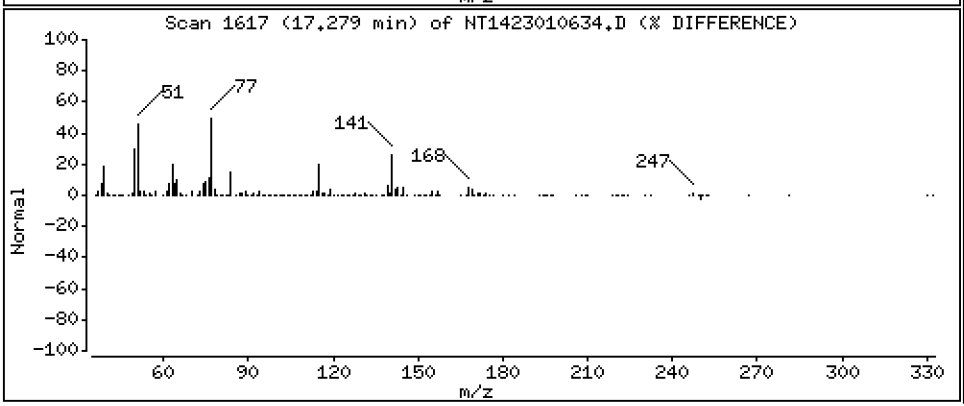
56 4-Bromophenyl-phenylether

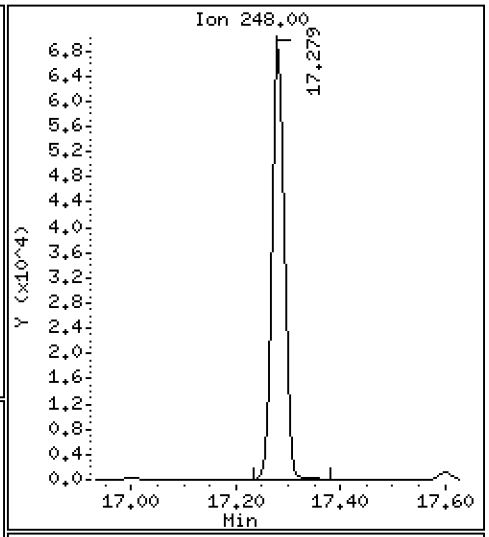
Concentration: 5.082 ug/mL

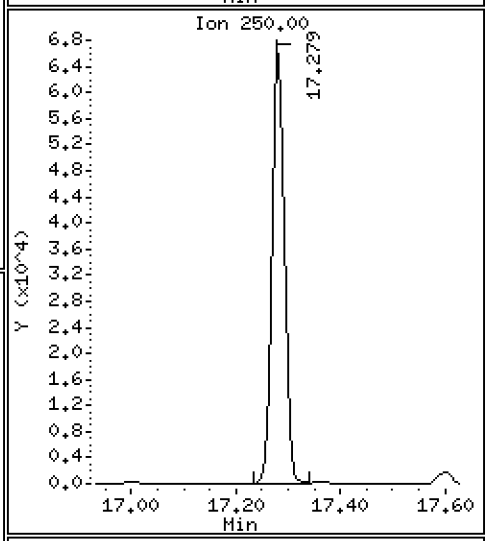


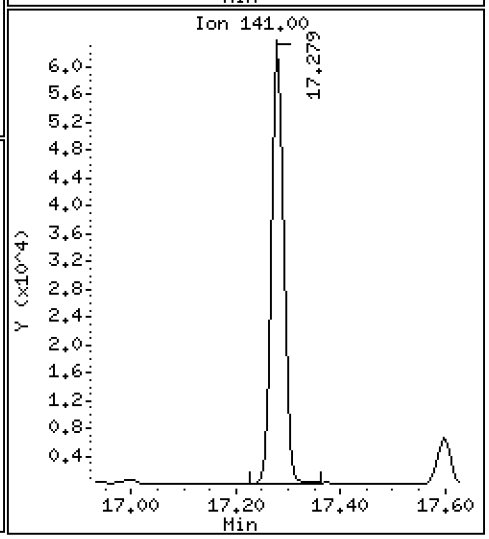












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

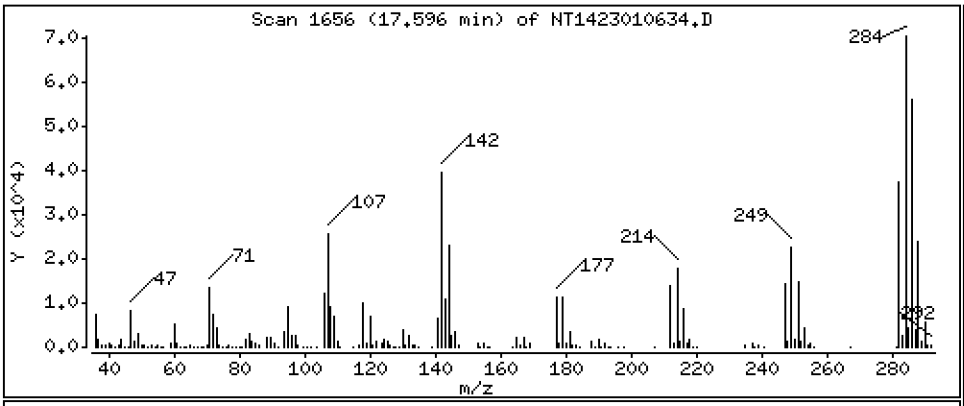
Operator: VTS

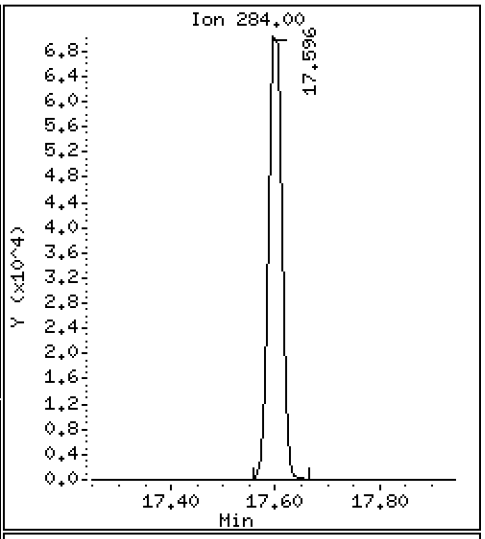
Column phase: ZB-5msi

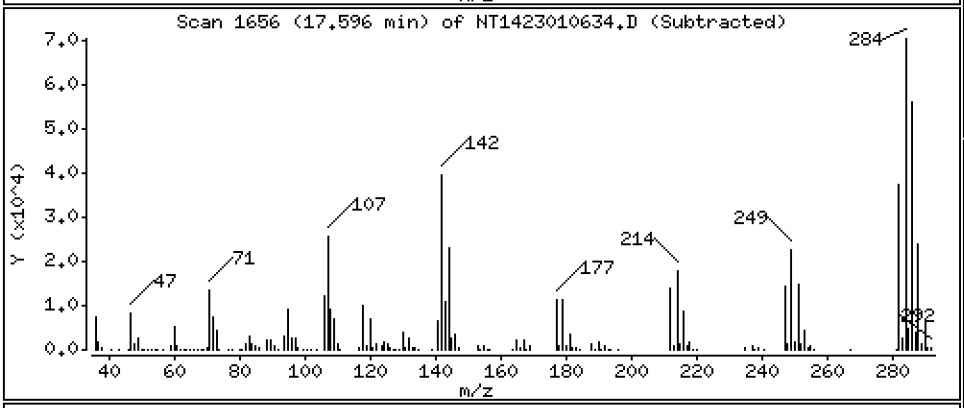
Column diameter: 0.25

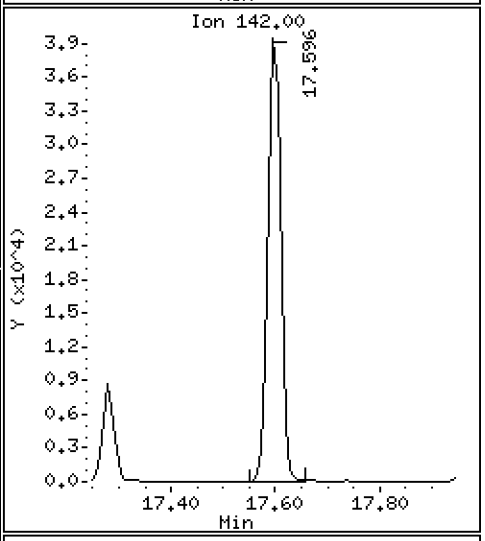
57 Hexachlorobenzene

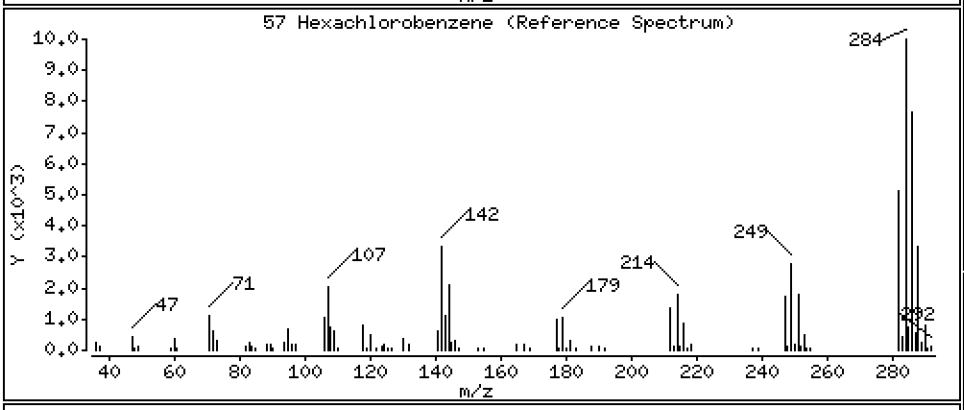
Concentration: 5.043 ug/mL

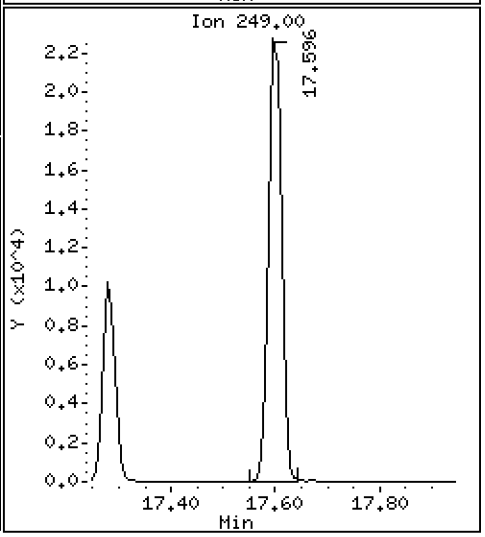


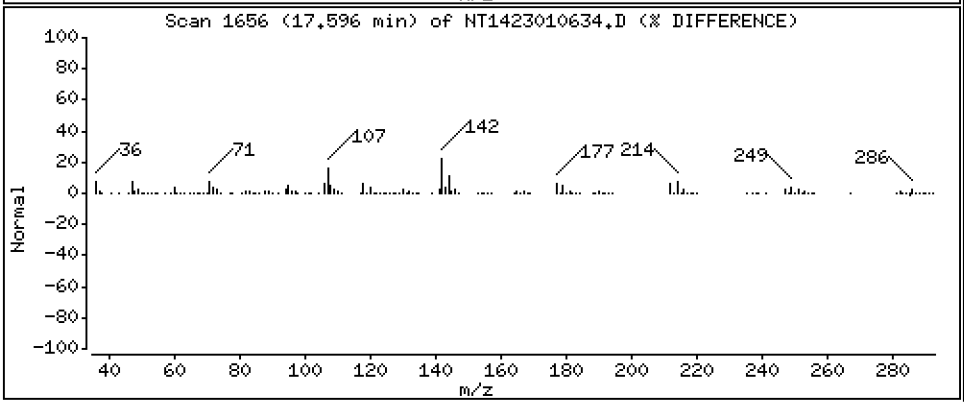












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

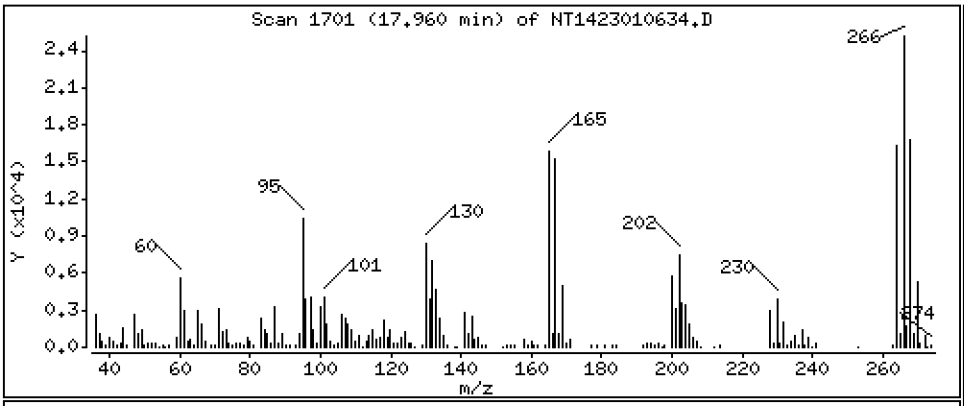
Operator: VTS

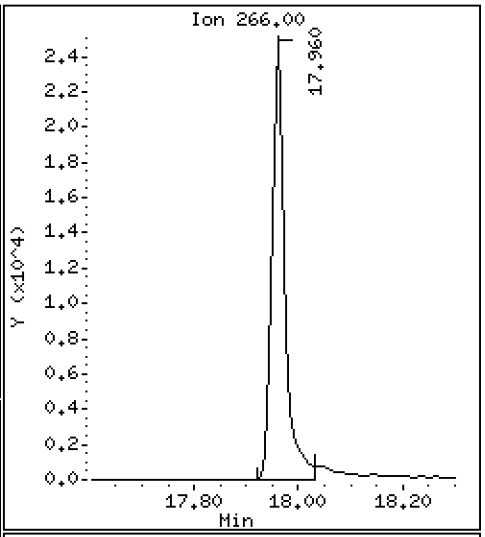
Column phase: ZB-5msi

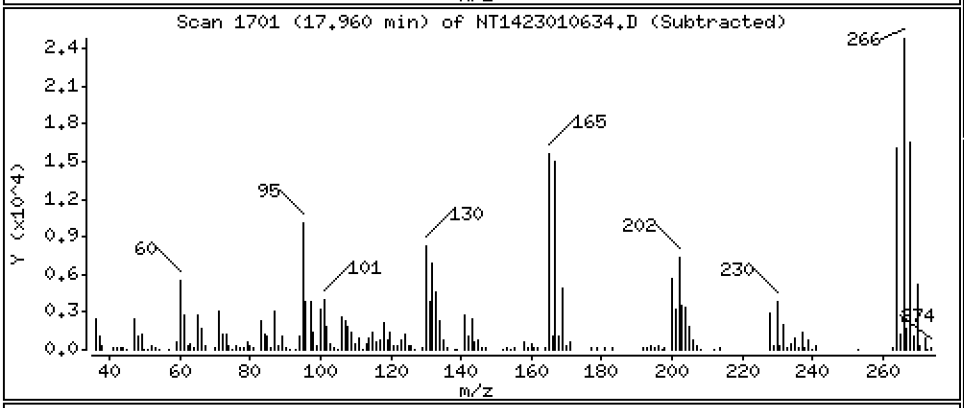
Column diameter: 0.25

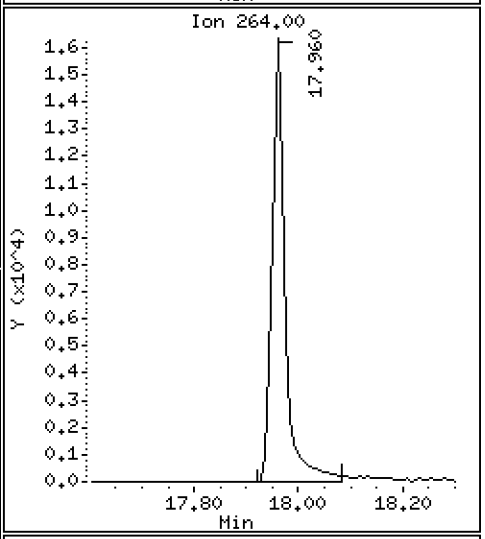
58 Pentachlorophenol

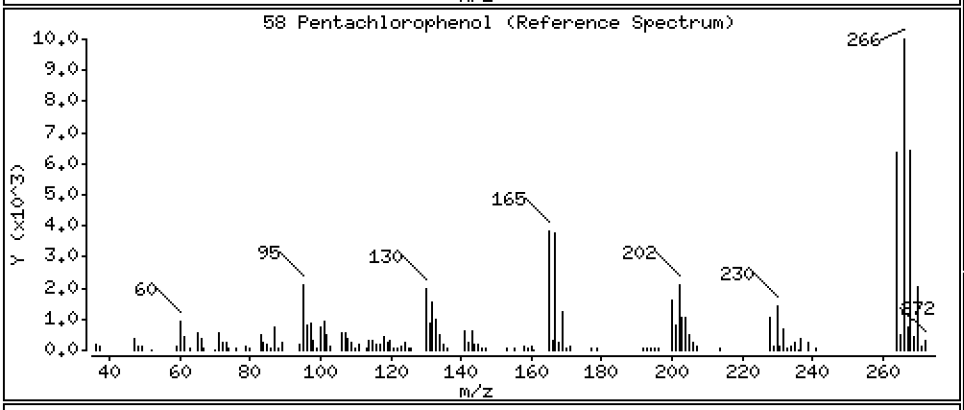
Concentration: 4.019 ug/mL

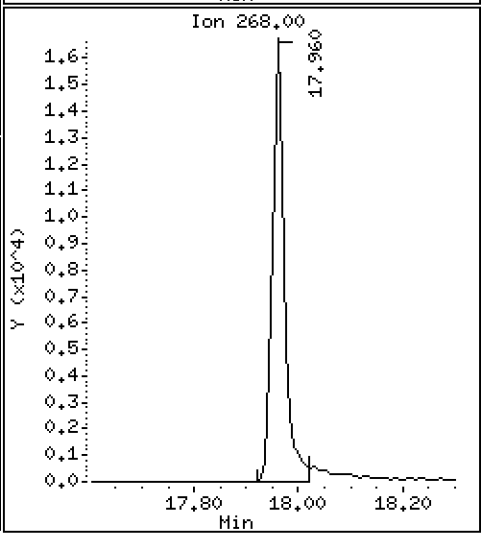


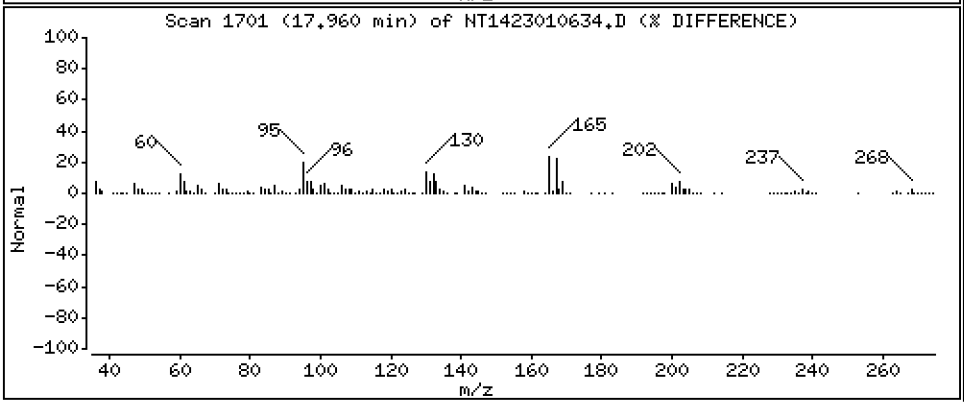












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

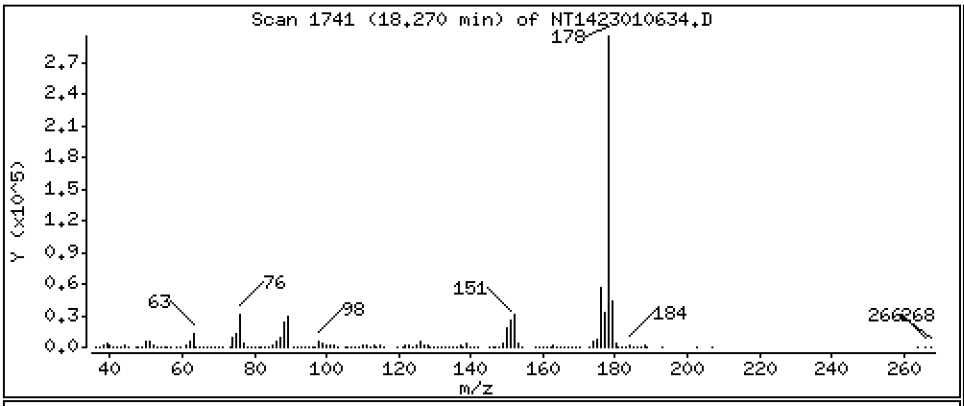
Operator: VTS

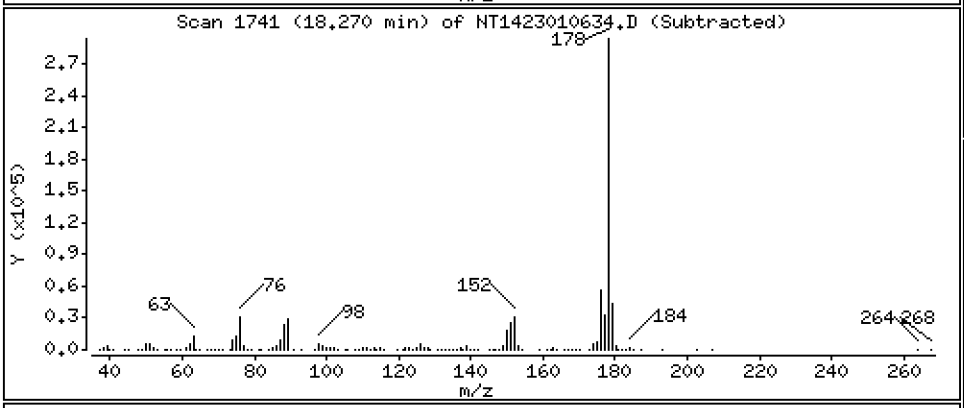
Column phase: ZB-5msi

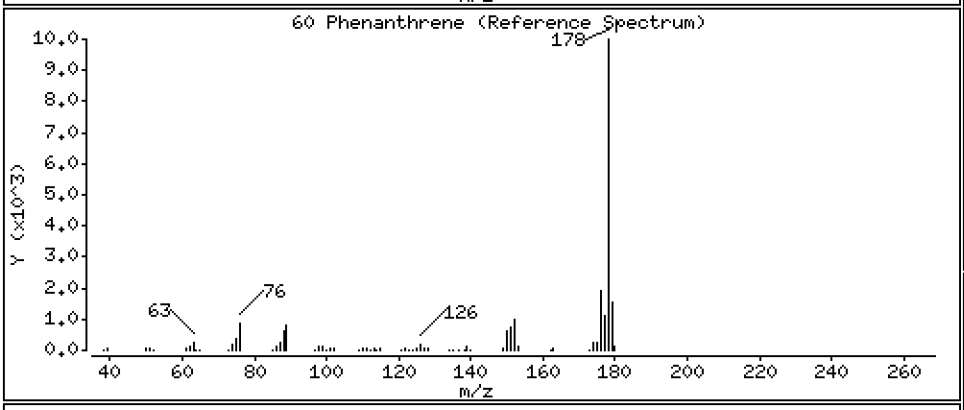
Column diameter: 0.25

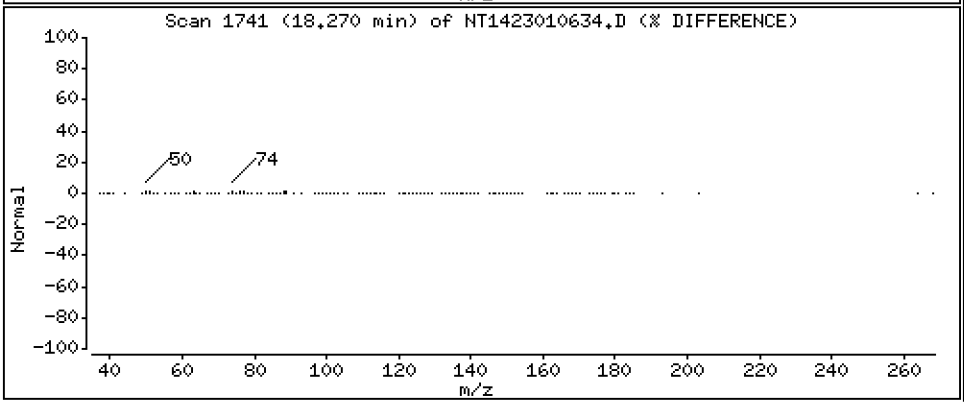
60 Phenanthrene

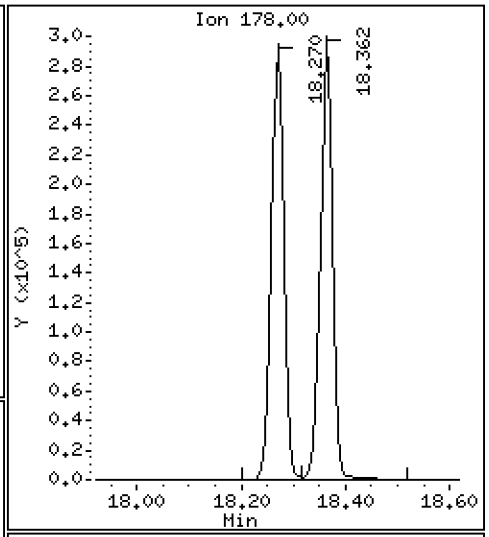
Concentration: 5.334 ug/mL

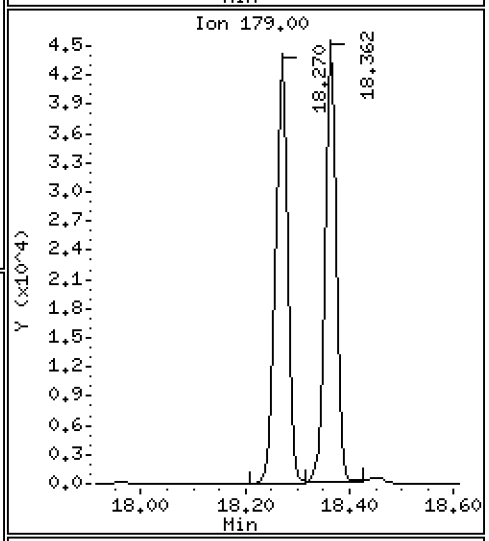


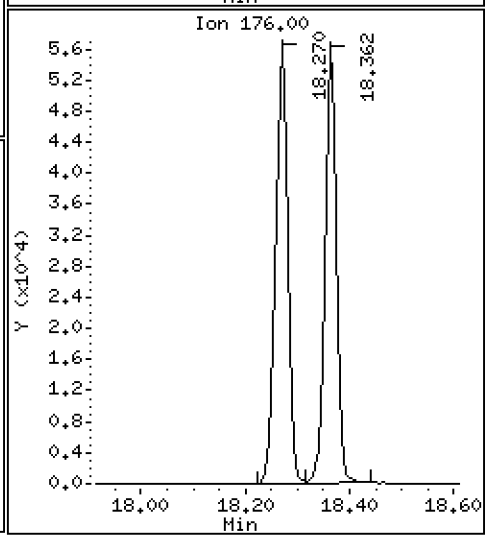












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

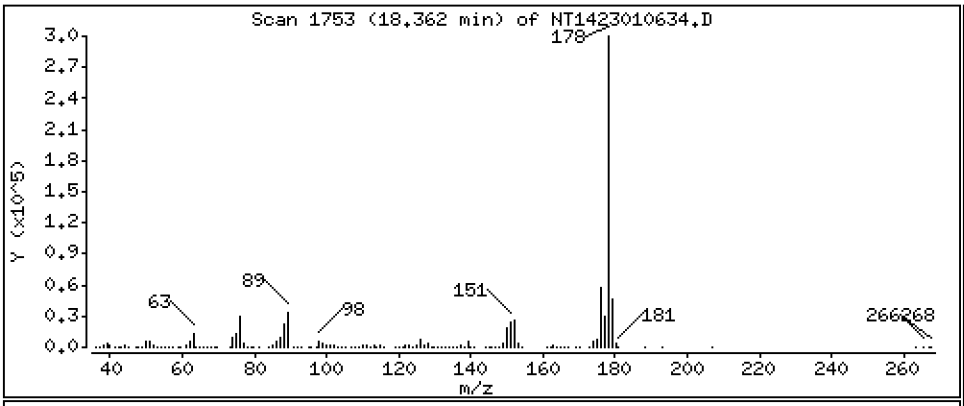
Operator: VTS

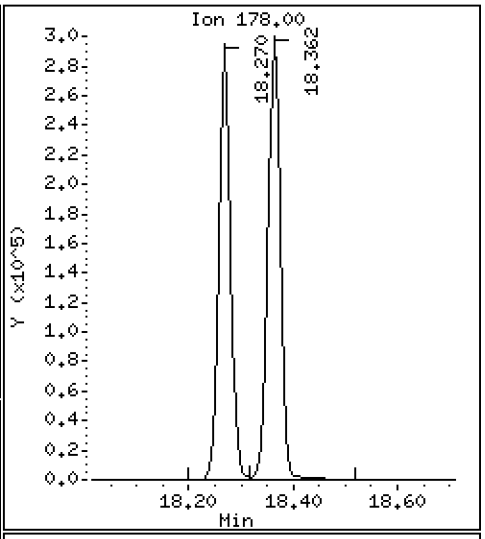
Column phase: ZB-5msi

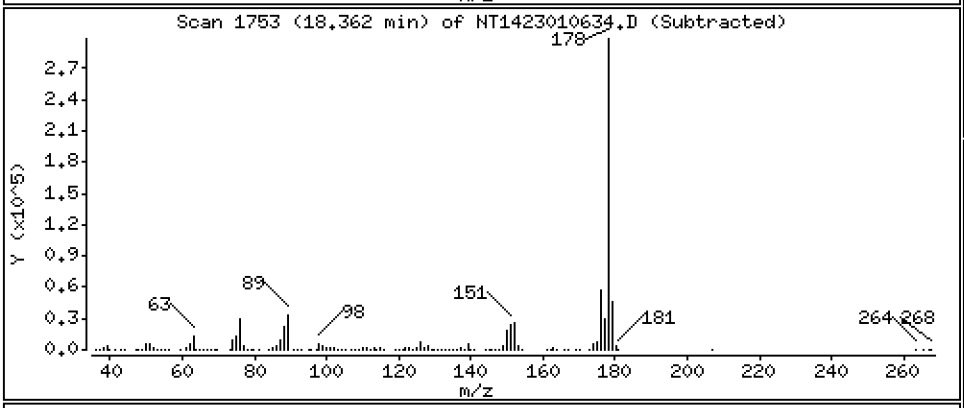
Column diameter: 0.25

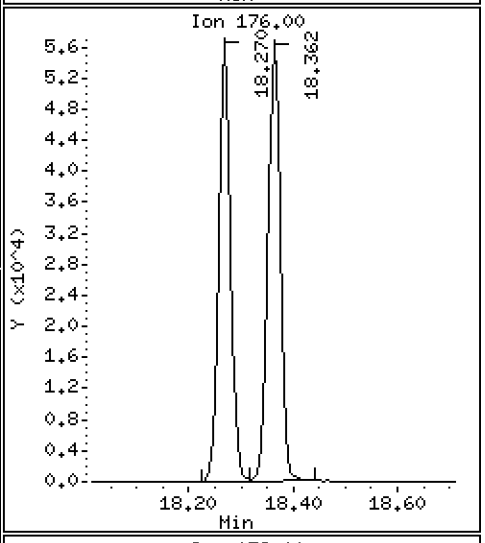
61 Anthracene

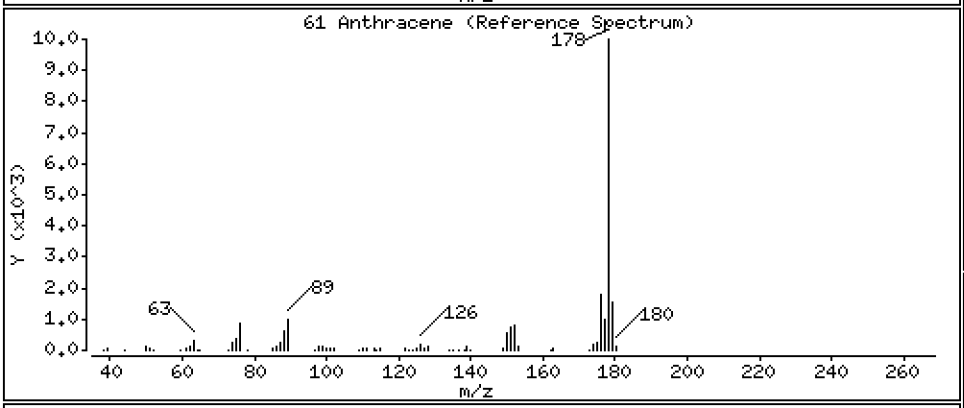
Concentration: 5.716 ug/mL

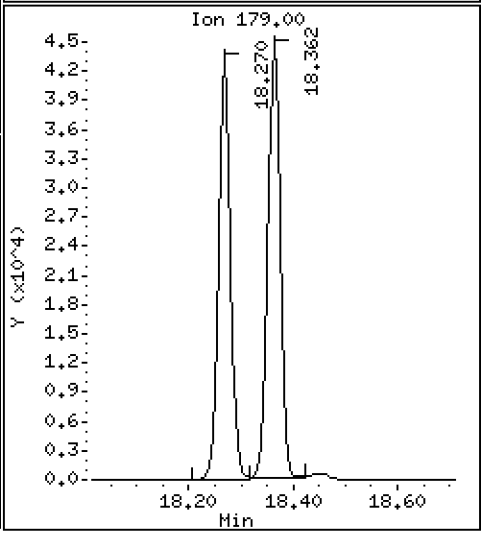


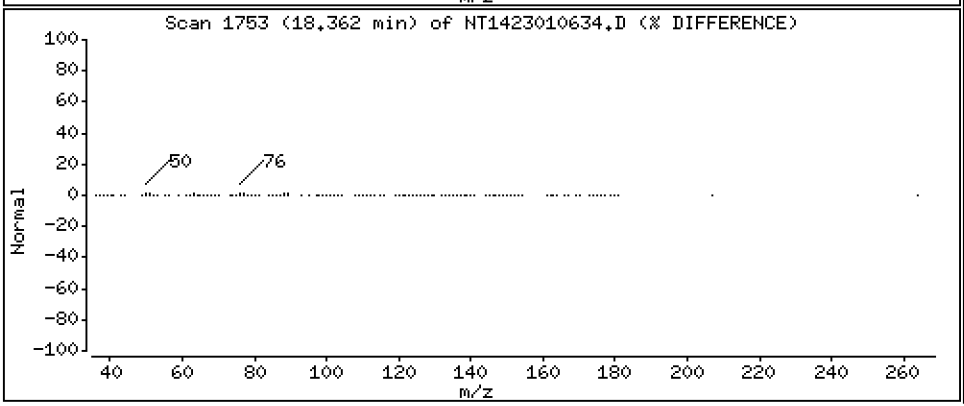












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

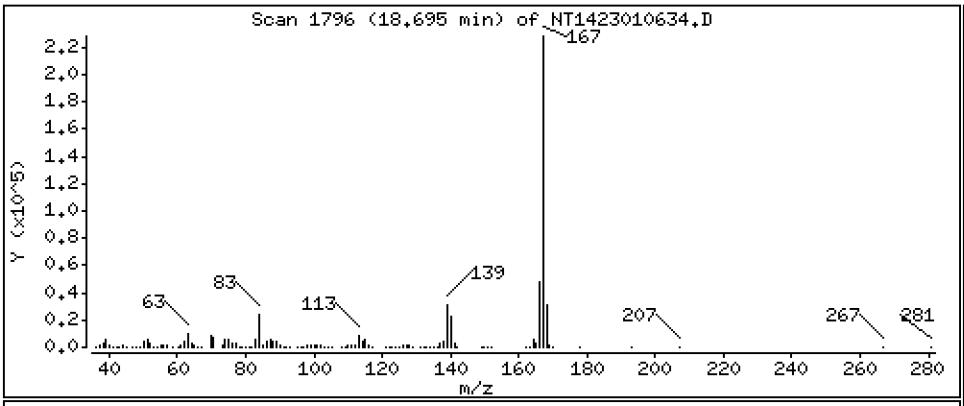
Operator: VTS

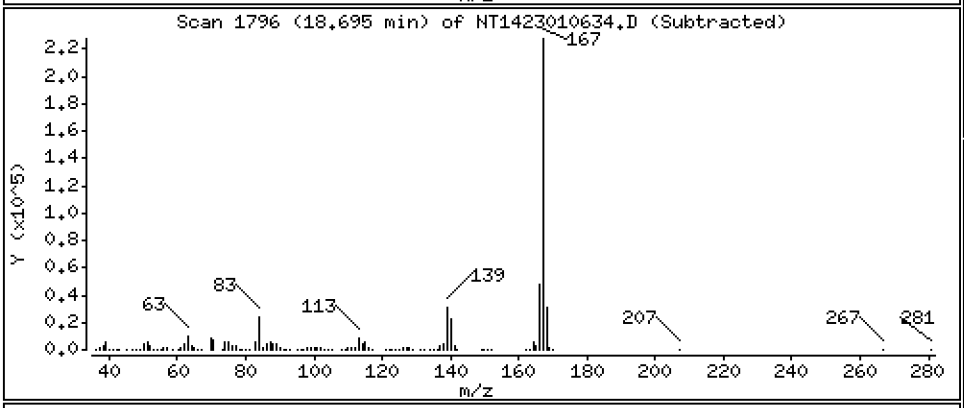
Column phase: ZB-5msi

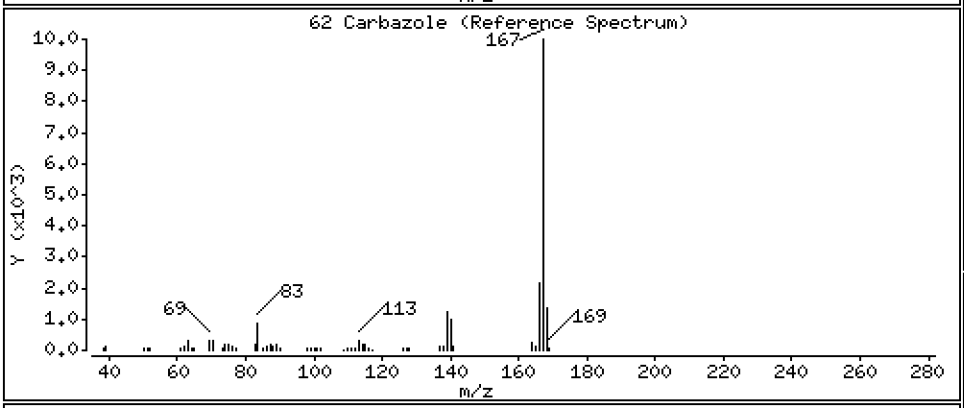
Column diameter: 0.25

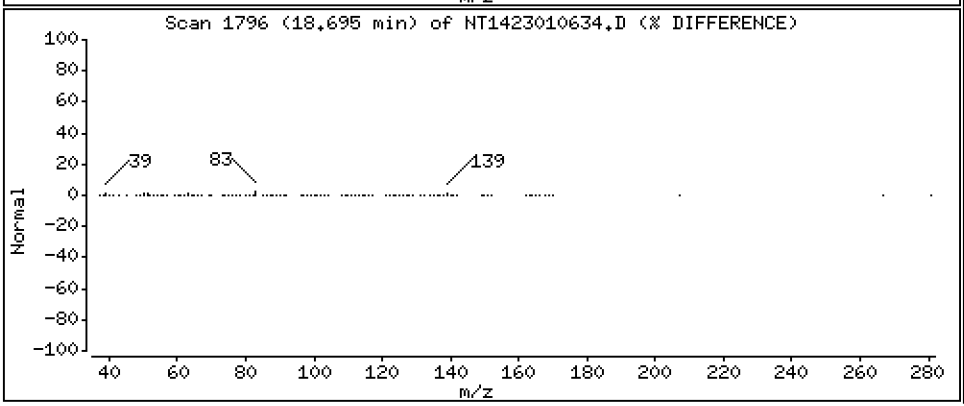
62 Carbazole

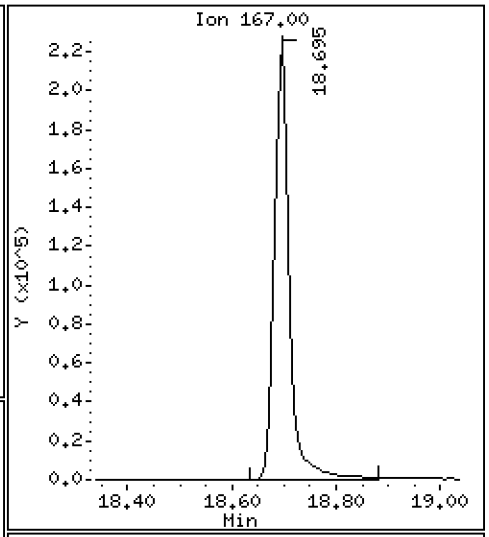
Concentration: 5.499 ug/mL

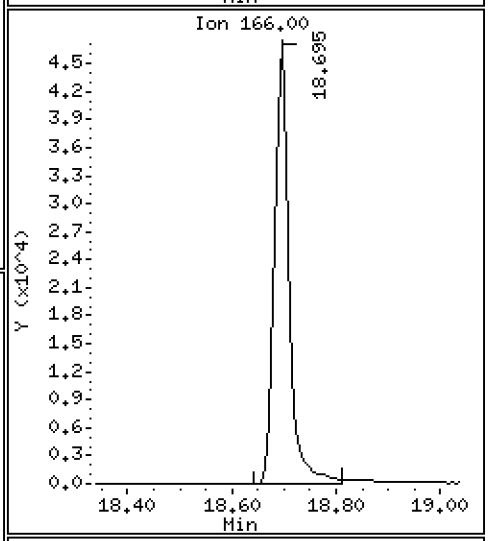


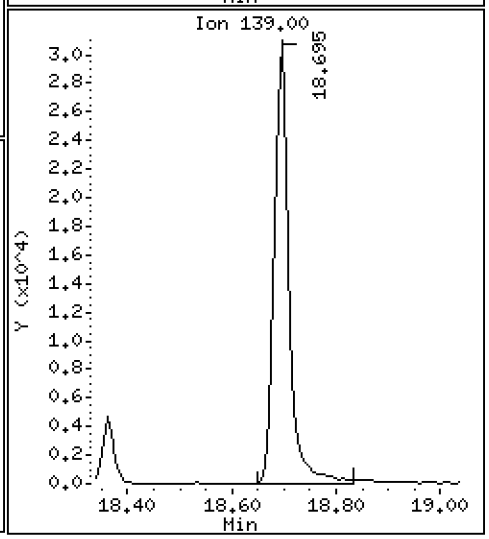












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

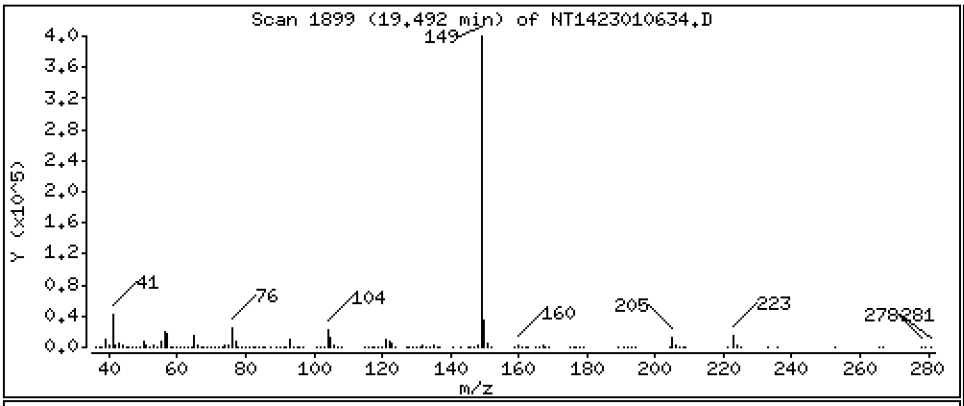
Operator: VTS

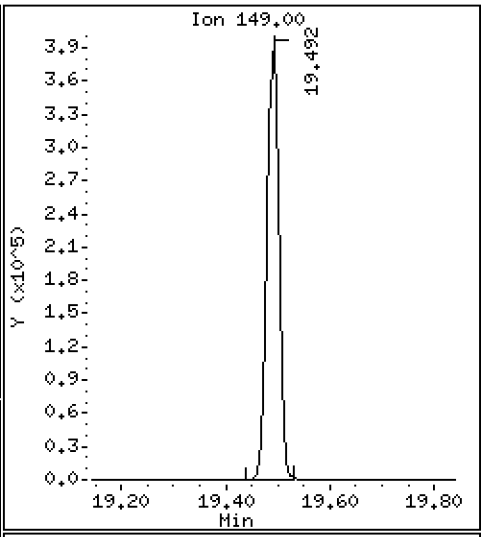
Column phase: ZB-5msi

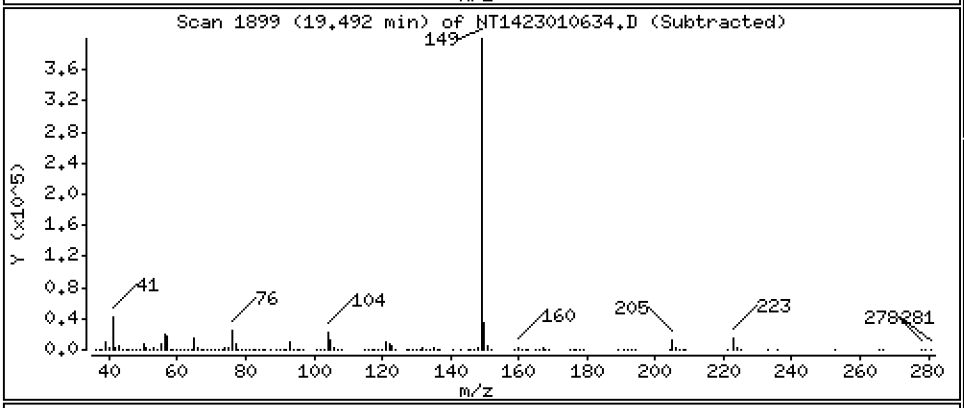
Column diameter: 0.25

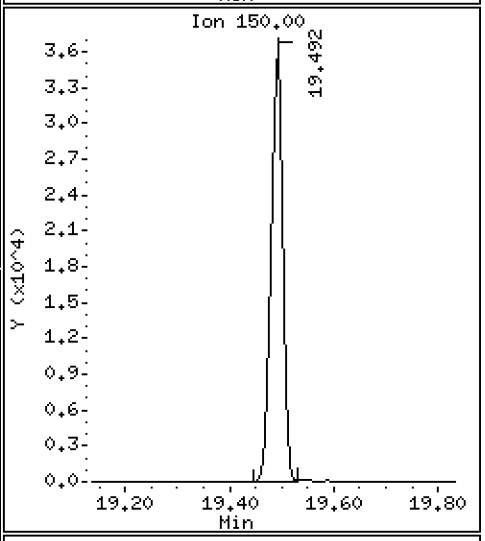
63 Di-n-butylphthalate

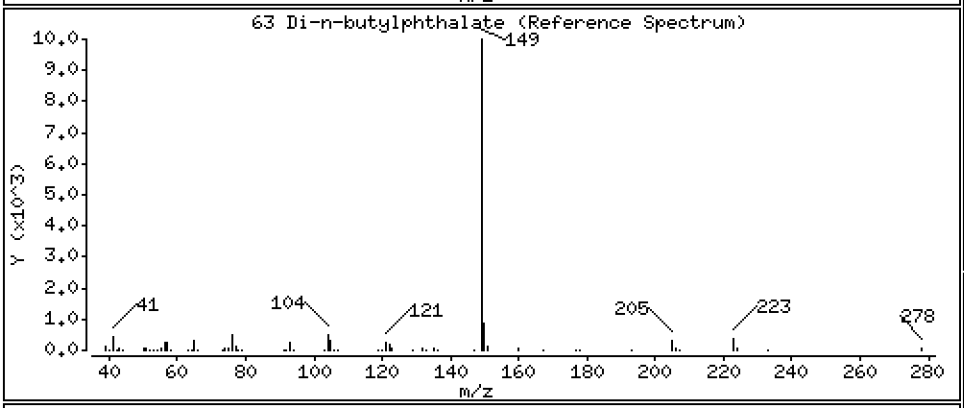
Concentration: 6.198 ug/mL

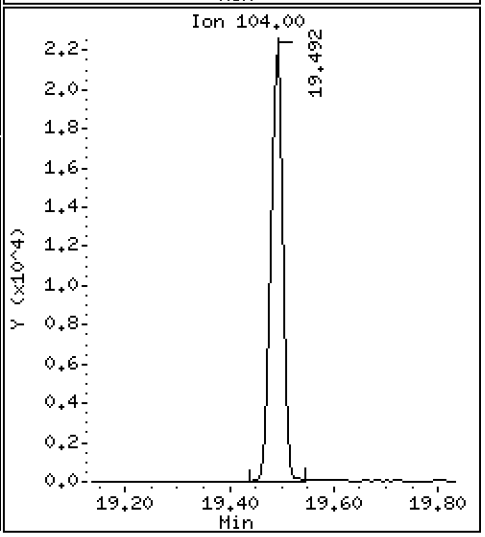


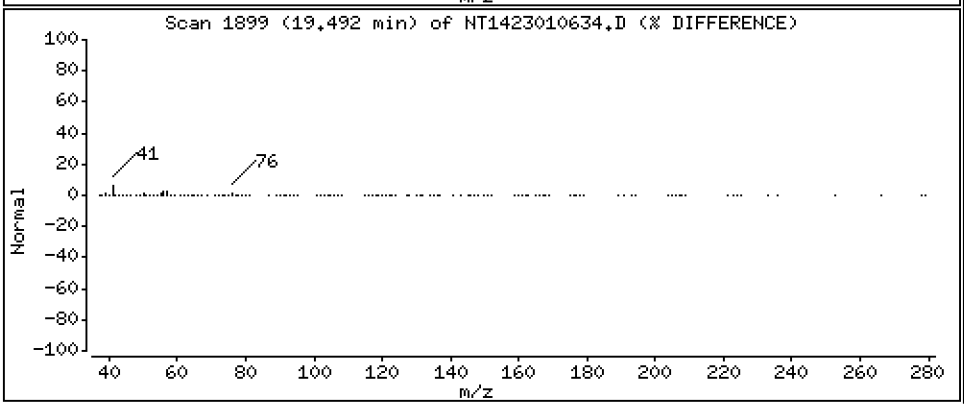












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

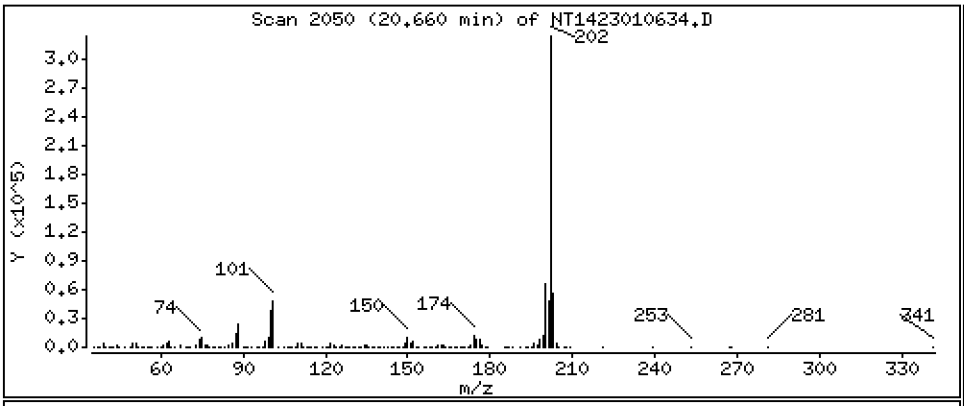
Operator: VTS

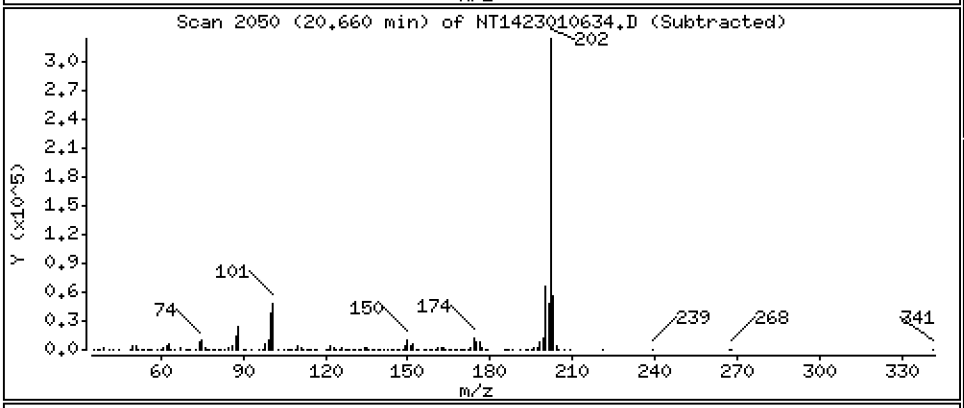
Column phase: ZB-5msi

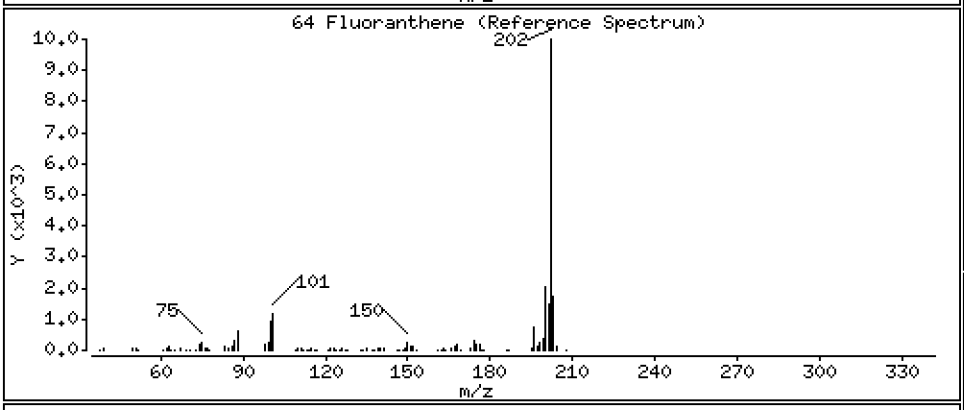
Column diameter: 0.25

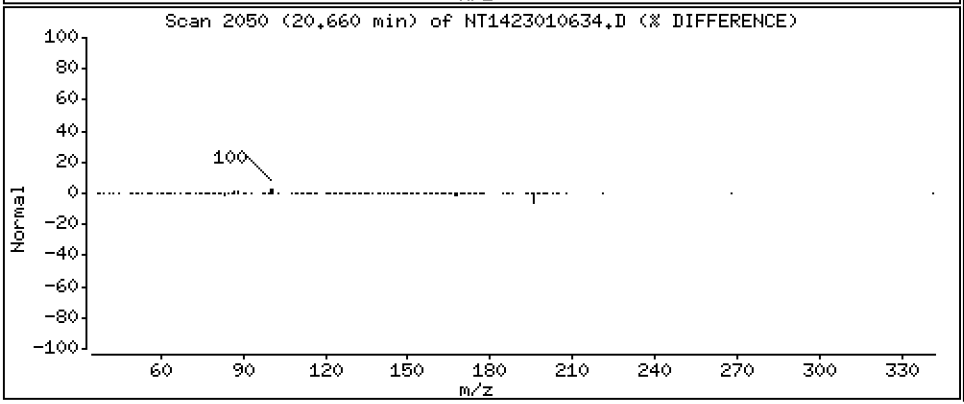
64 Fluoranthene

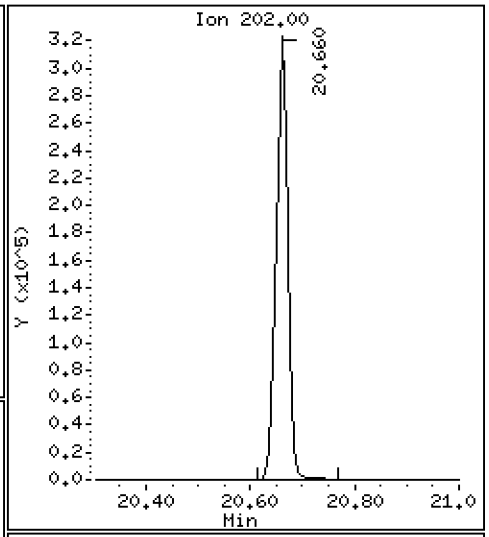
Concentration: 5.936 ug/mL

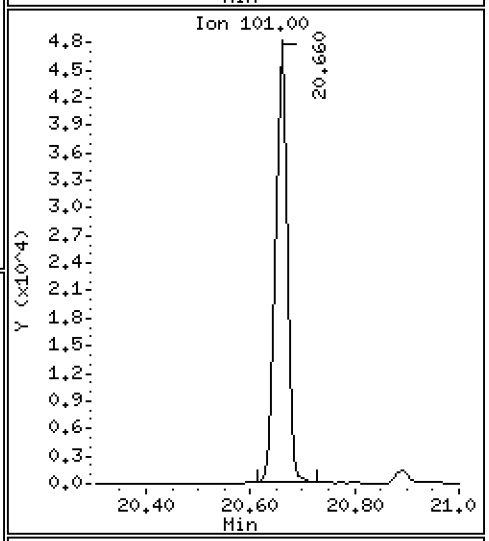


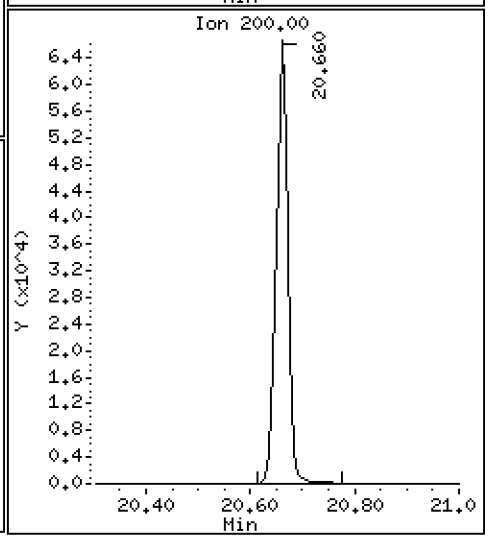












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

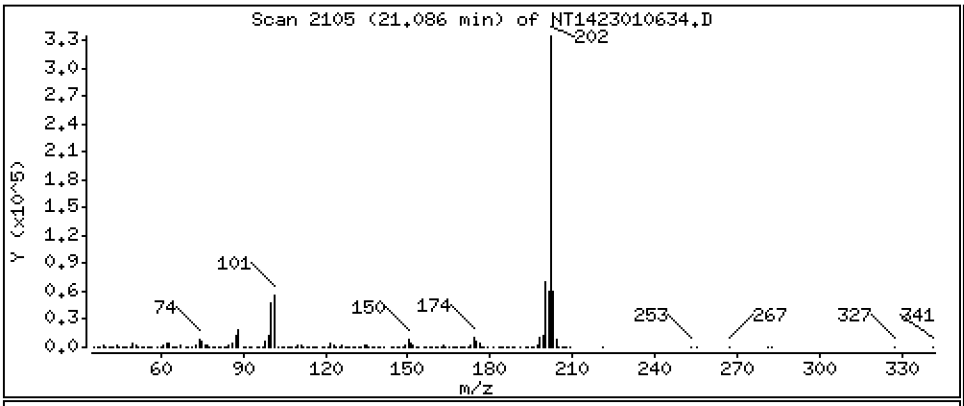
Operator: VTS

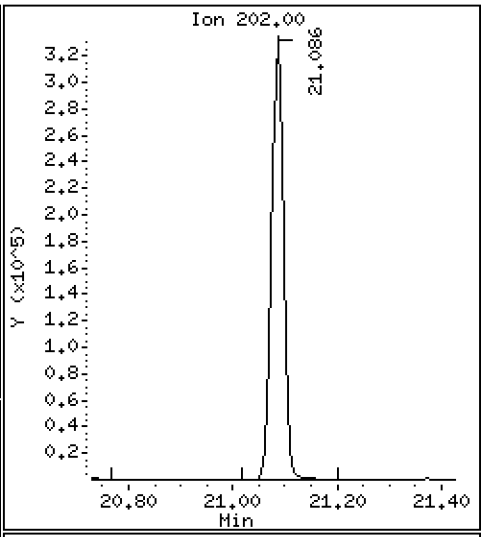
Column phase: ZB-5msi

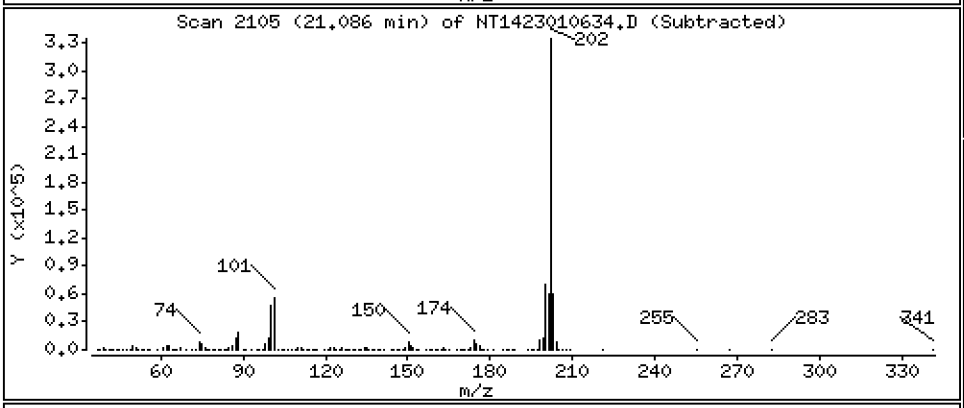
Column diameter: 0.25

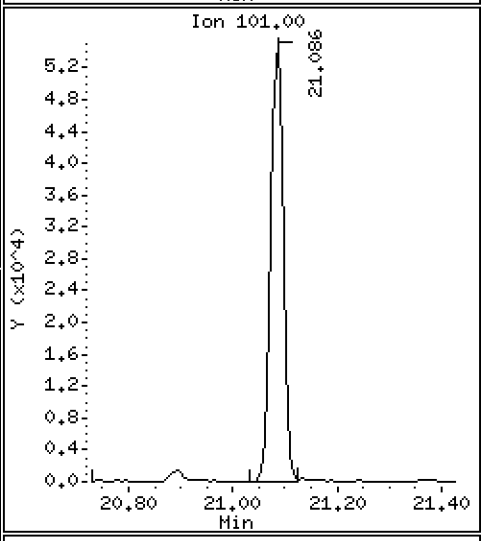
65 Pyrene

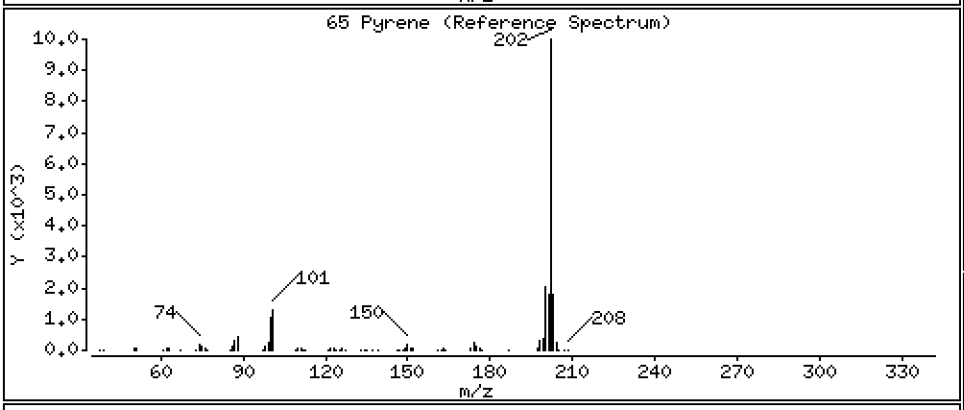
Concentration: 5.821 ug/mL

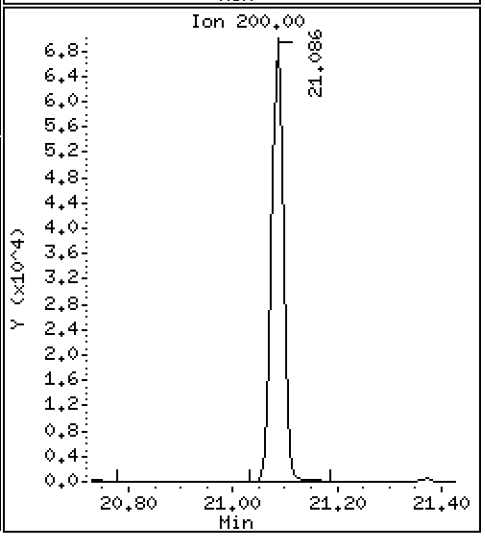


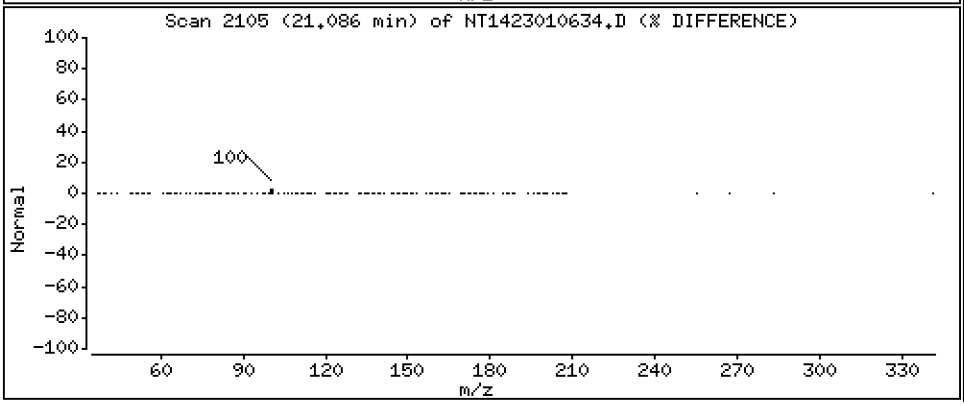












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

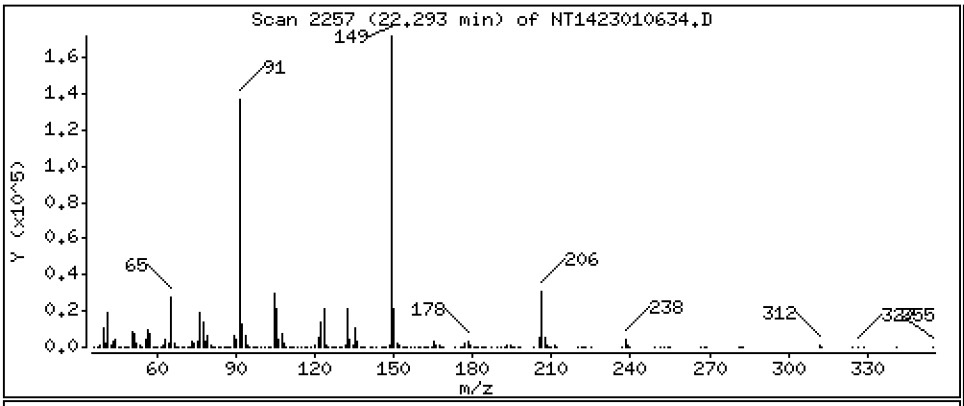
Operator: VTS

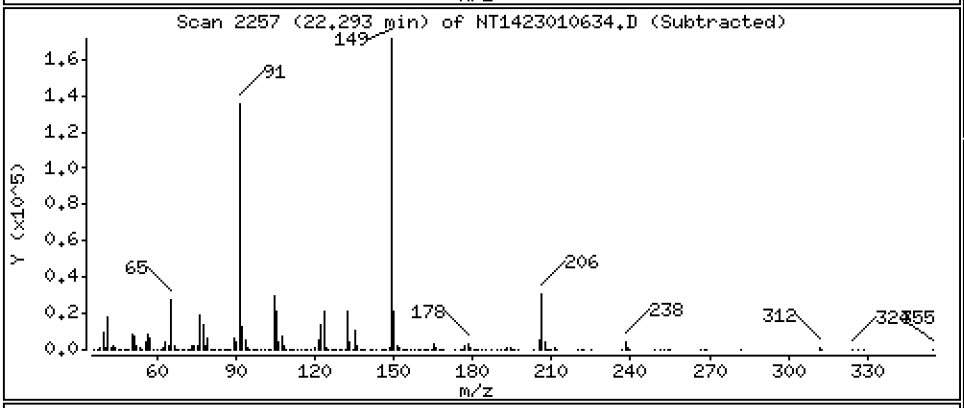
Column phase: ZB-5msi

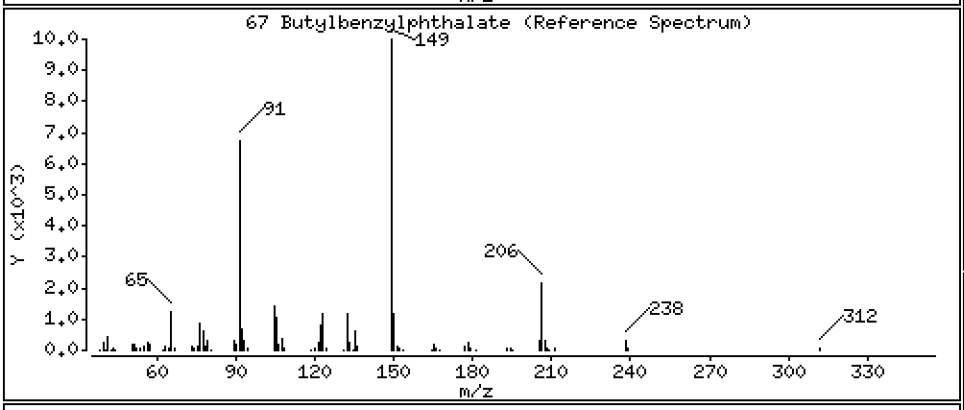
Column diameter: 0.25

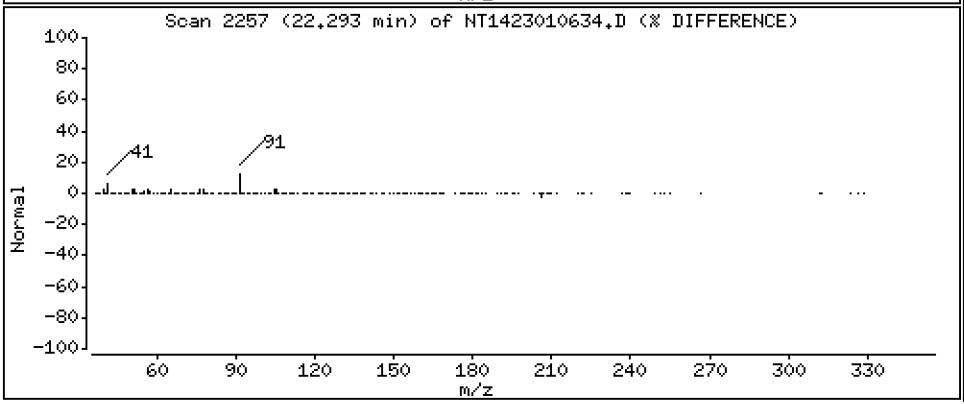
67 Butylbenzylphthalate

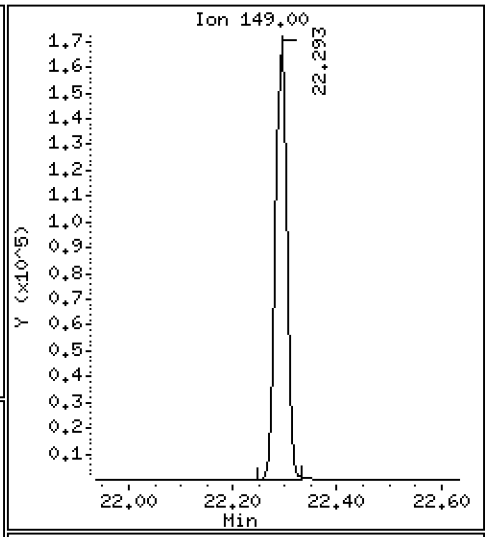
Concentration: 7.211 ug/mL

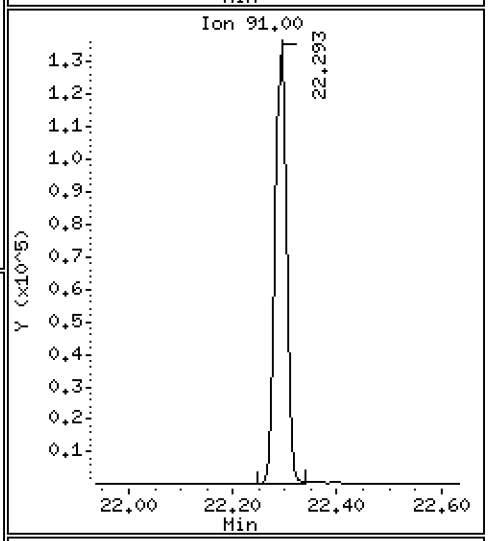


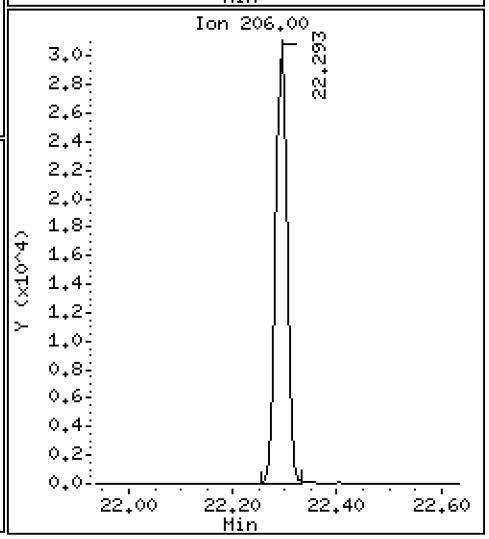












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

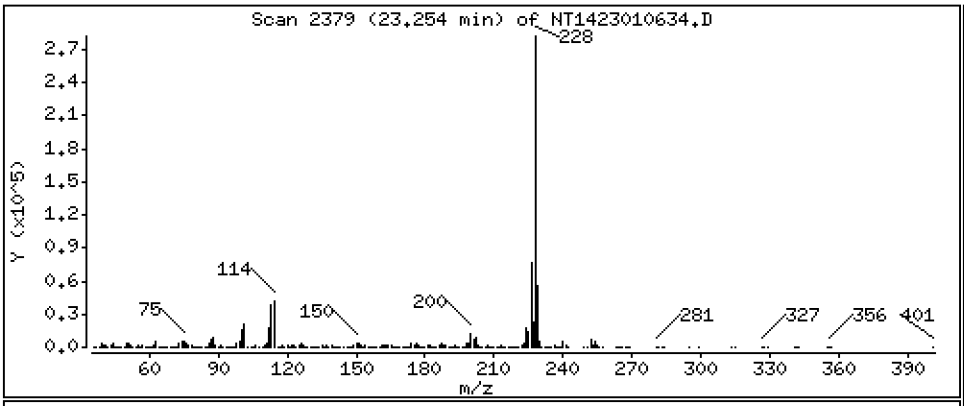
Operator: VTS

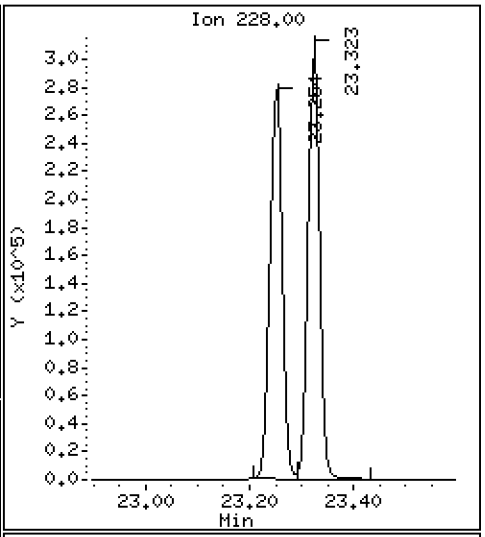
Column phase: ZB-5msi

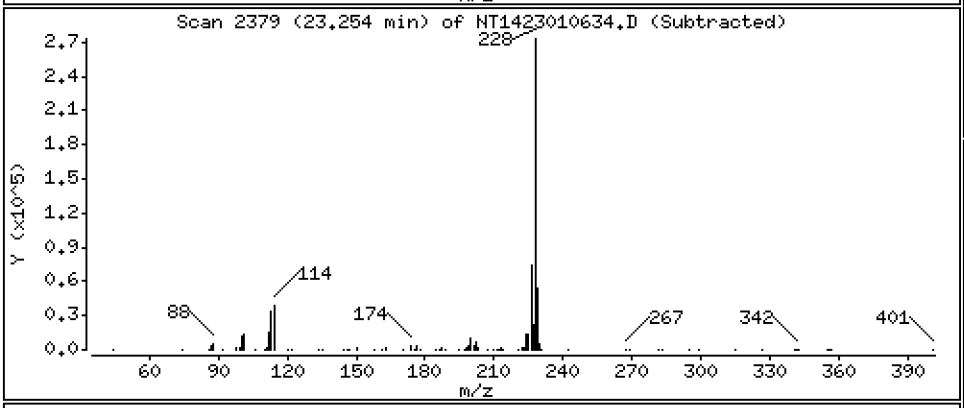
Column diameter: 0.25

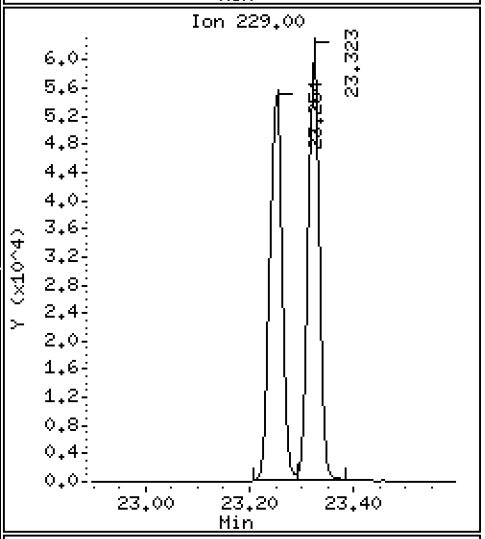
68 Benzo(a)anthracene

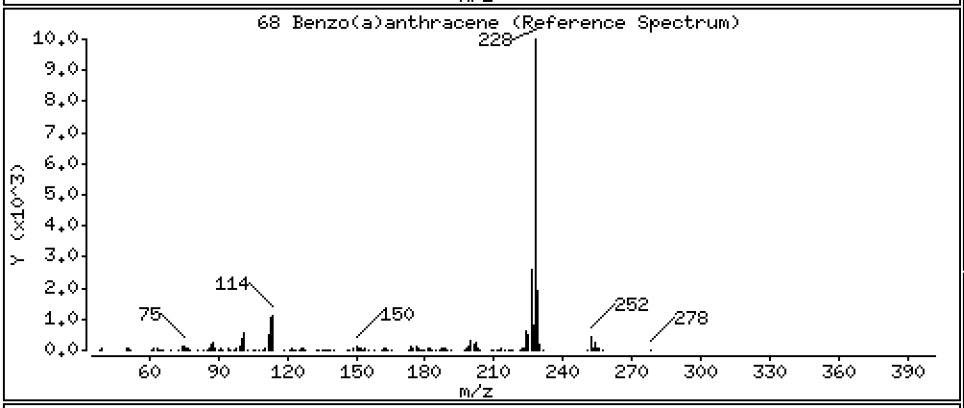
Concentration: 5.738 ug/mL

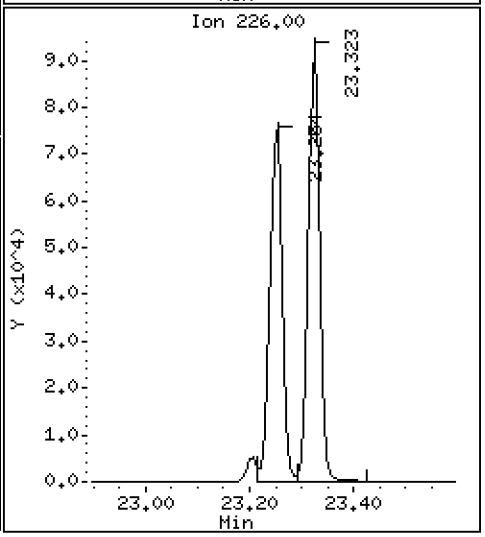


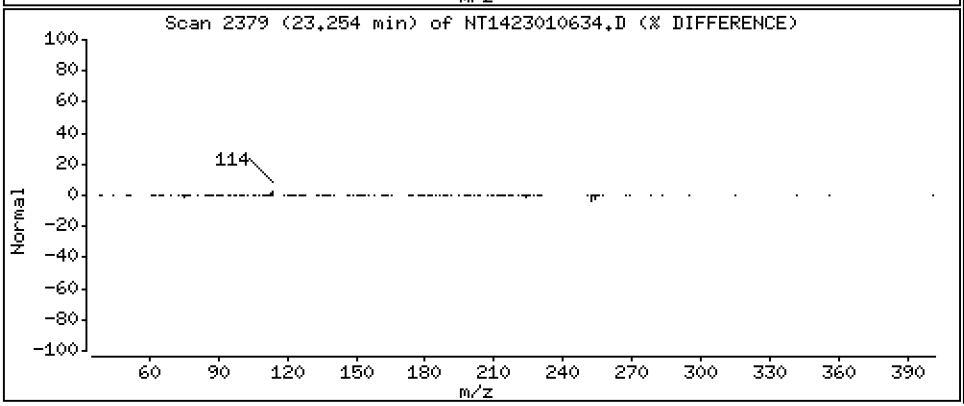












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

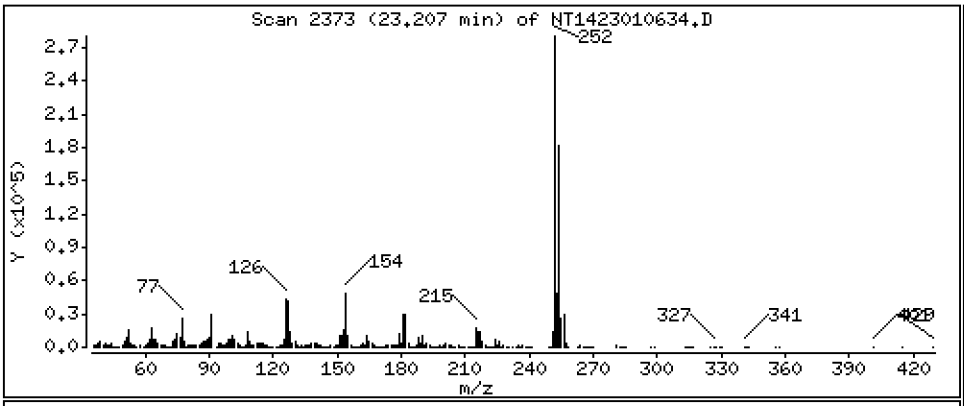
Operator: VTS

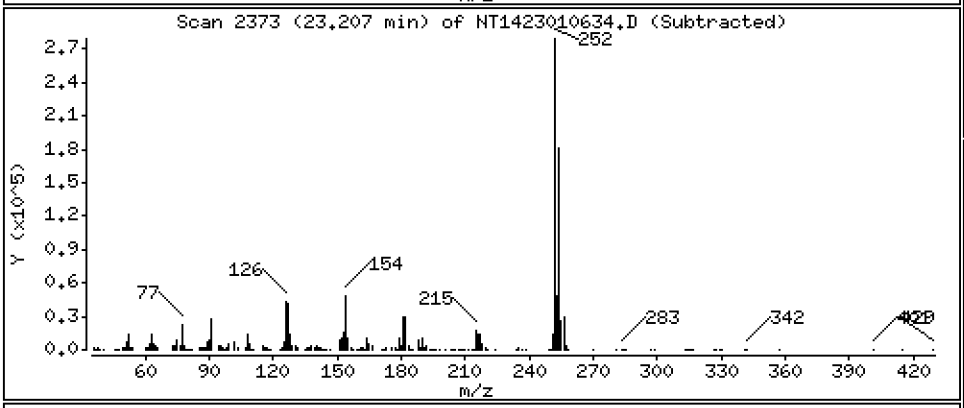
Column phase: ZB-5msi

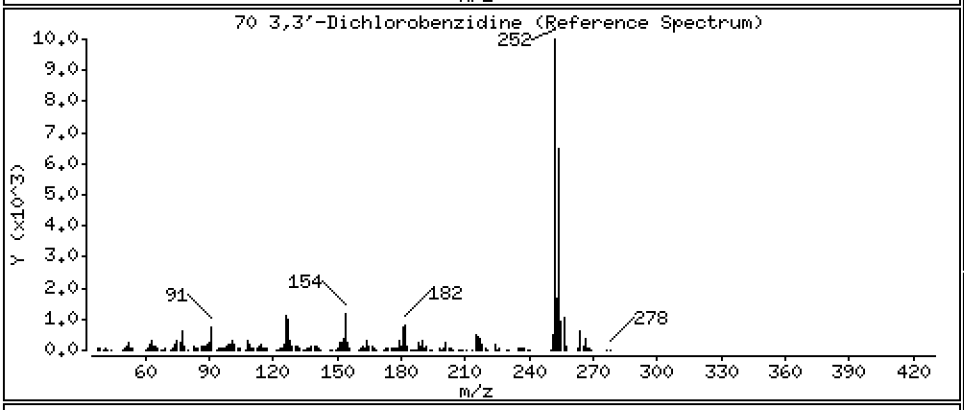
Column diameter: 0.25

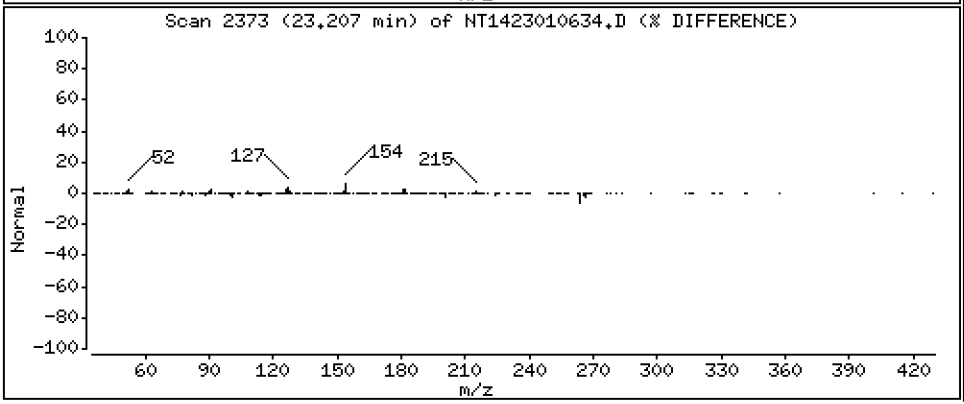
70 3,3'-Dichlorobenzidine

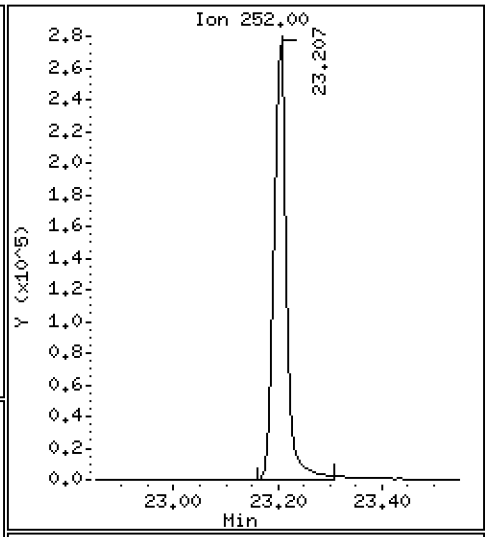
Concentration: 18.80 ug/mL

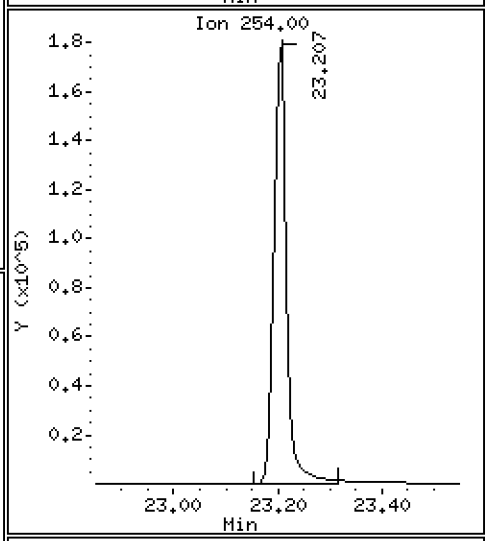


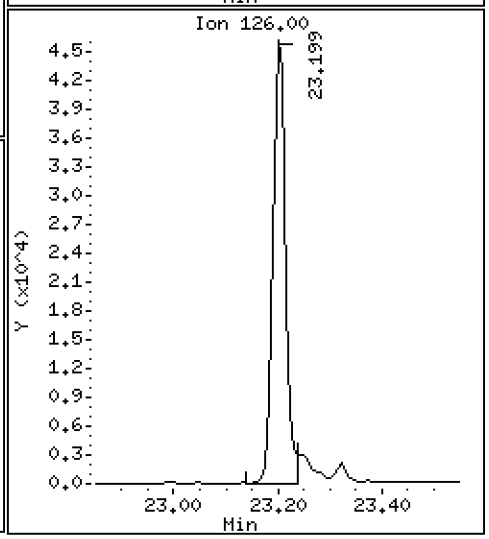












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

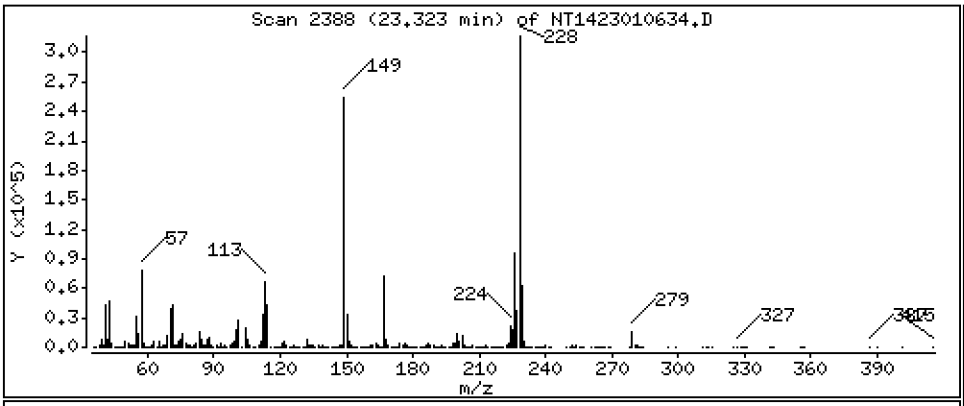
Operator: VTS

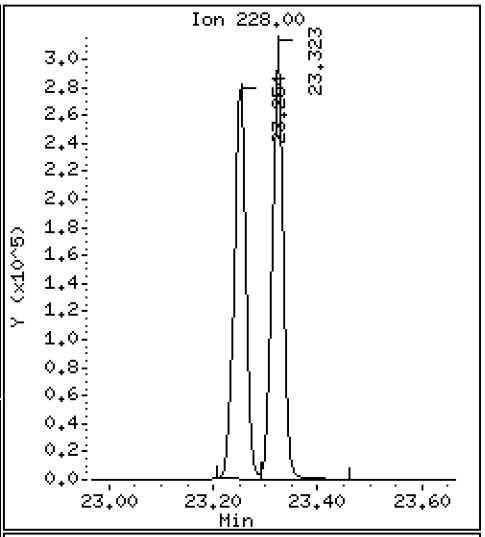
Column phase: ZB-5msi

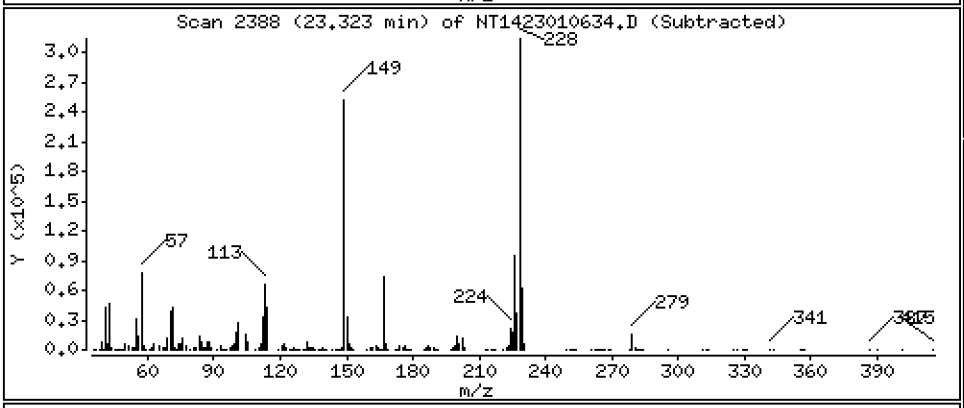
Column diameter: 0.25

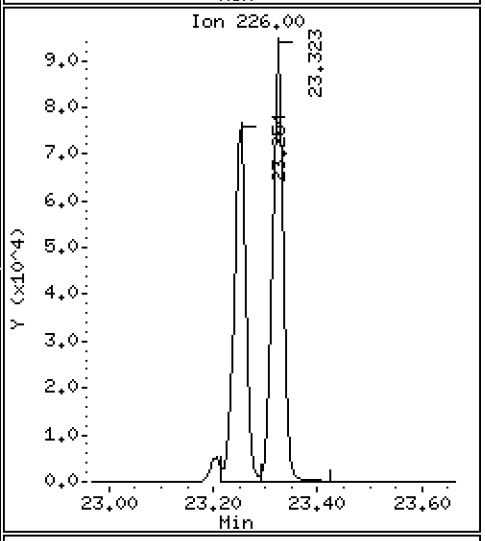
71 Chrysene

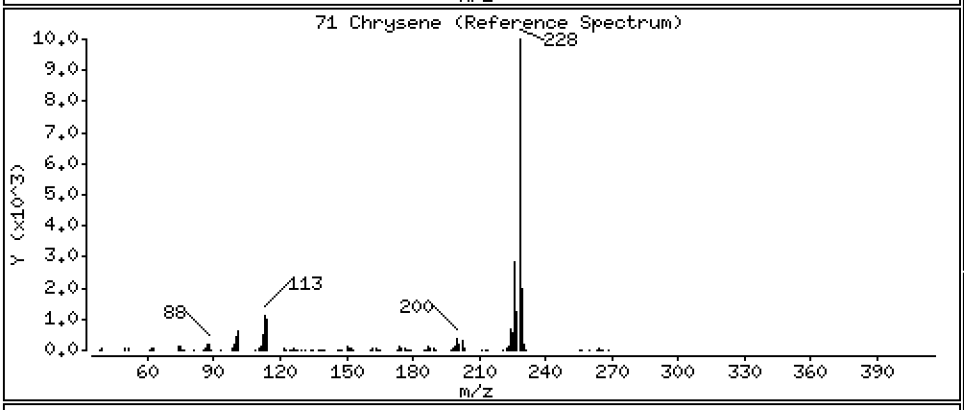
Concentration: 6.046 ug/mL

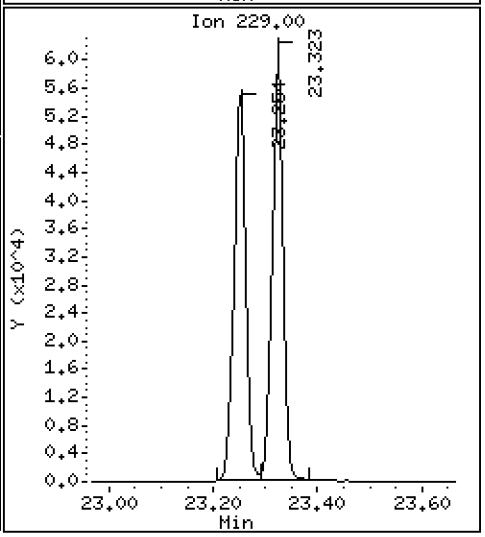


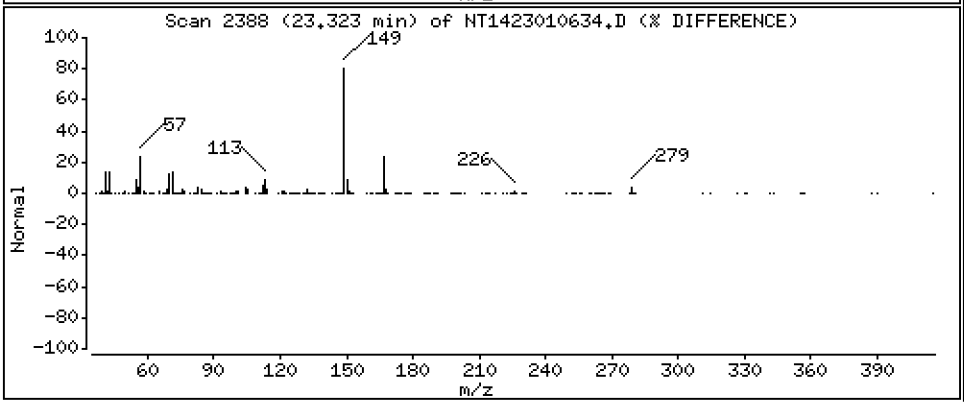












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

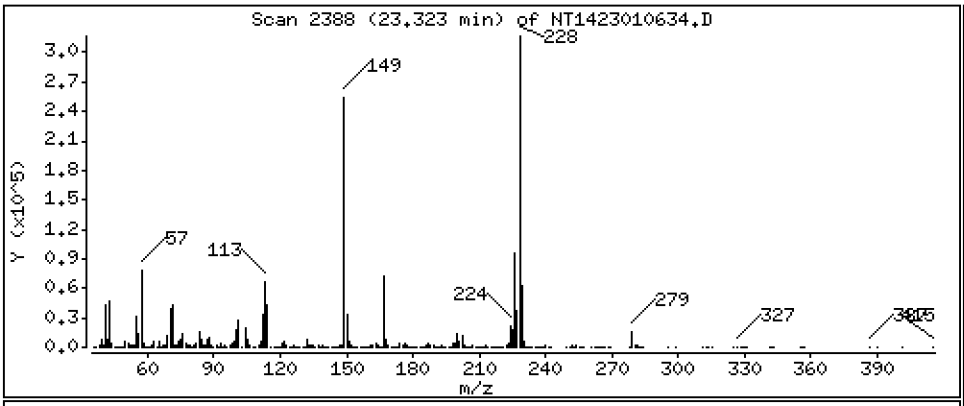
Operator: VTS

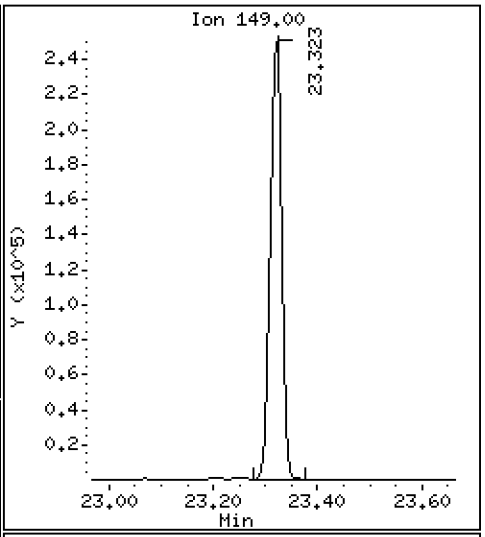
Column phase: ZB-5msi

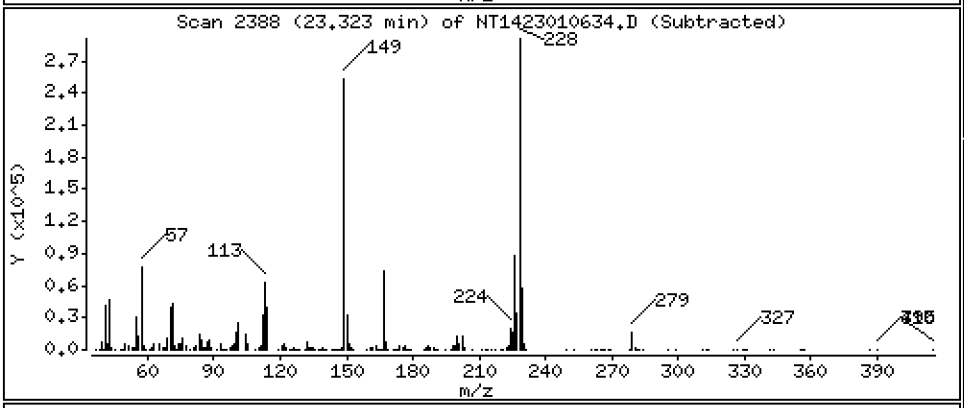
Column diameter: 0.25

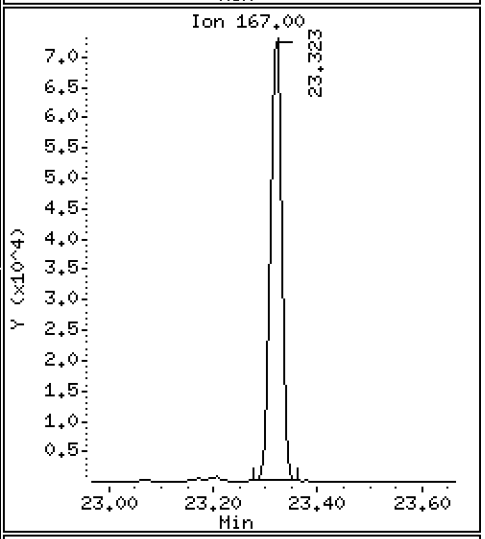
72 bis(2-Ethylhexyl)phthalate

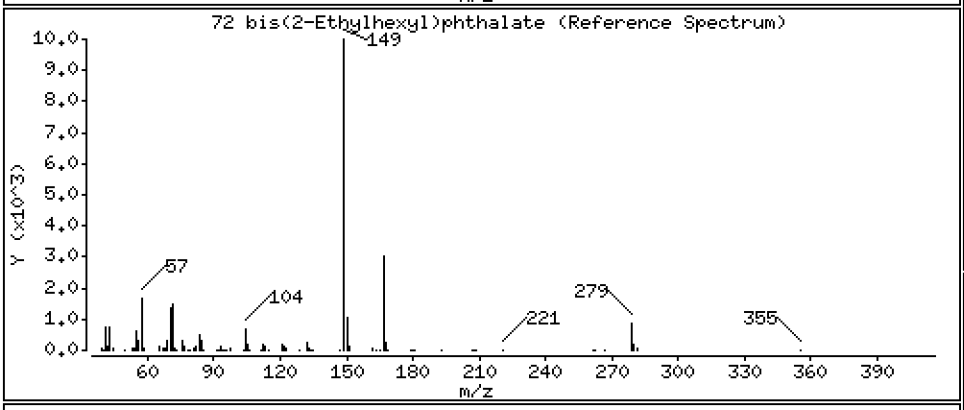
Concentration: 6.558 ug/mL

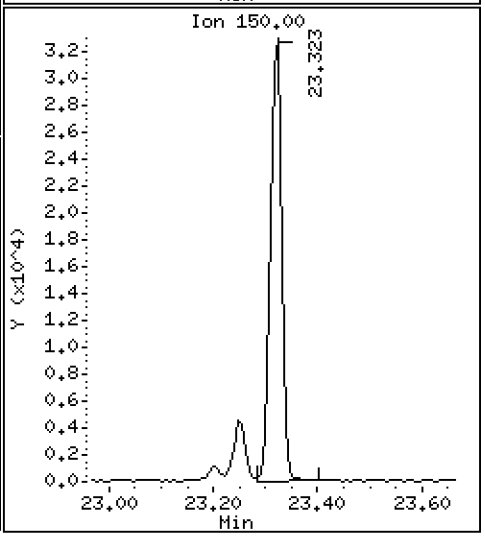


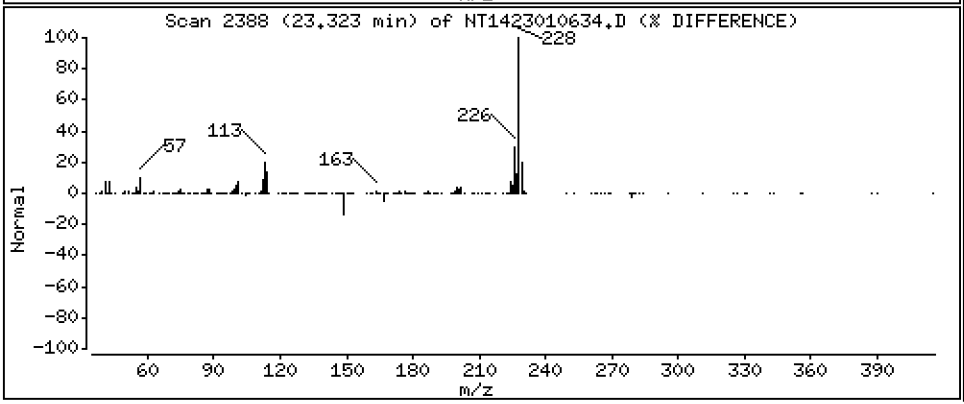












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

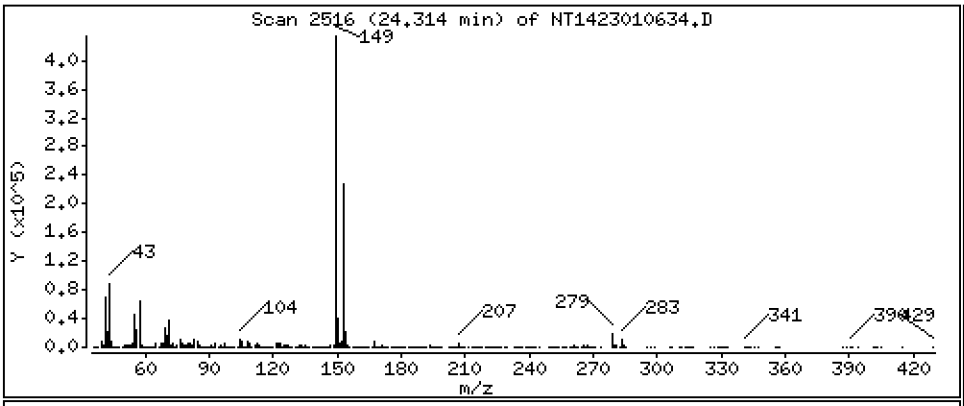
Operator: VTS

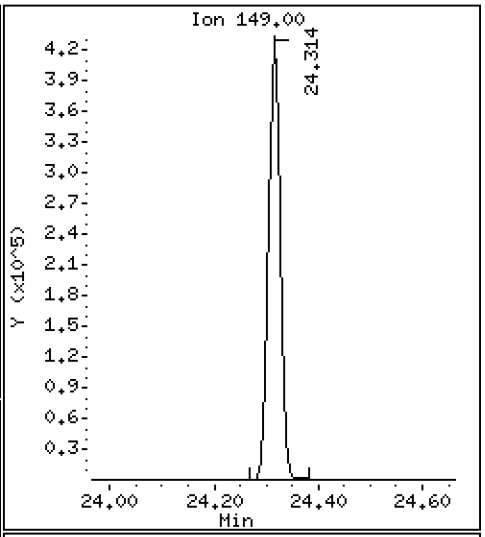
Column phase: ZB-5msi

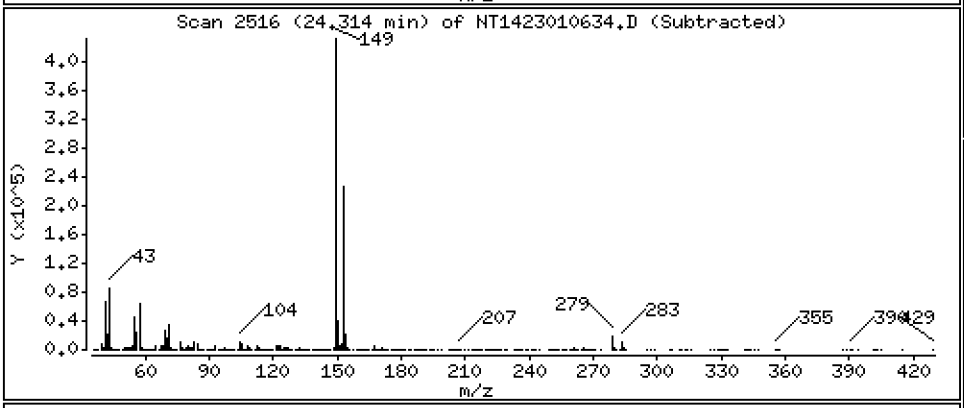
Column diameter: 0.25

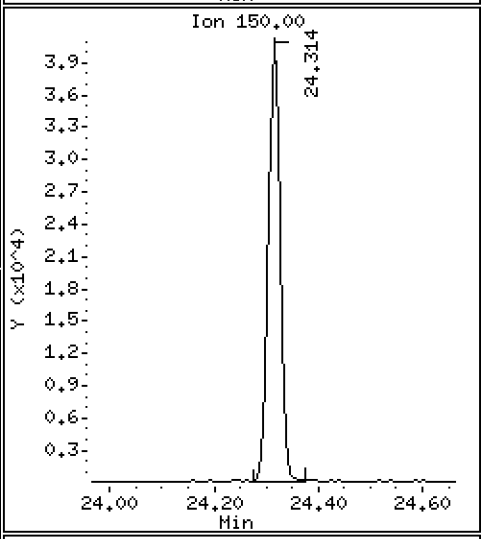
73 Di-n-octylphthalate

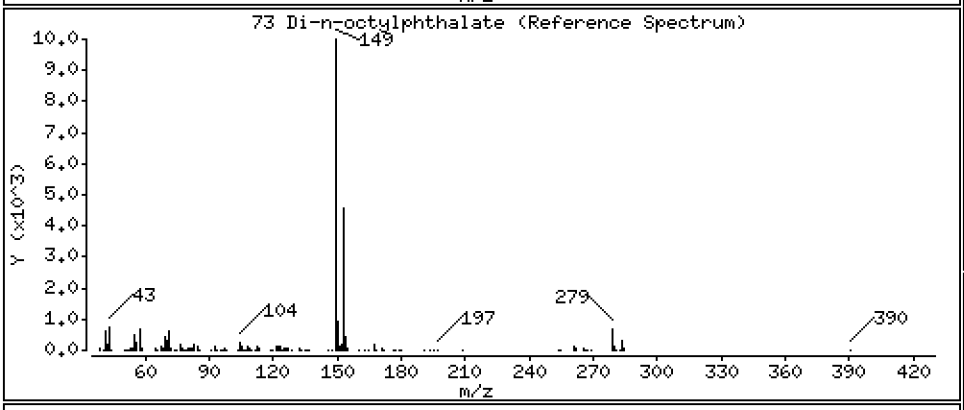
Concentration: 5.283 ug/mL

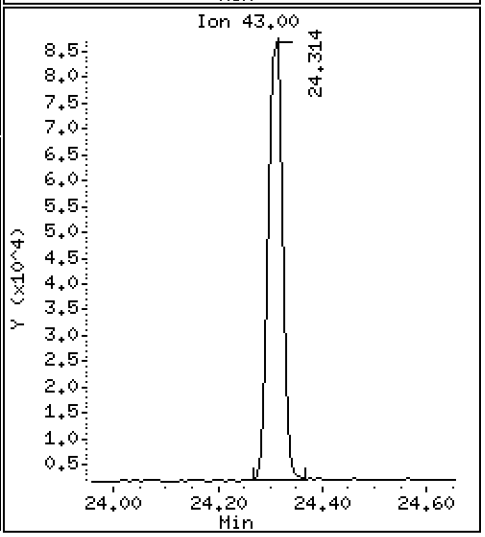


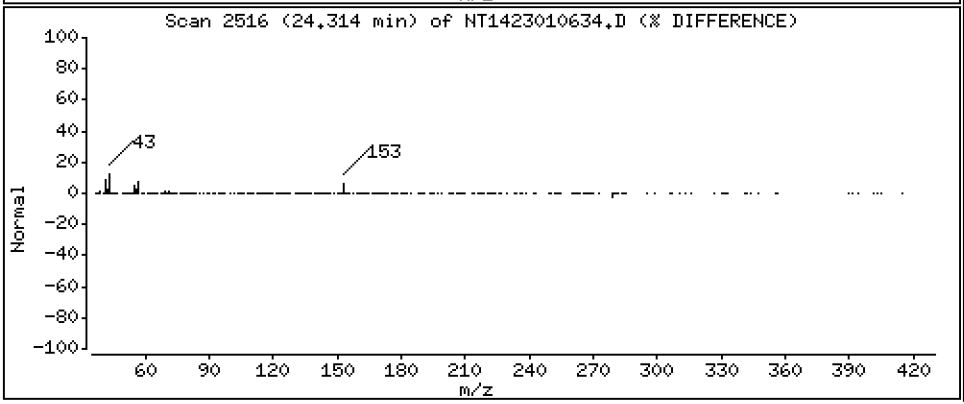












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

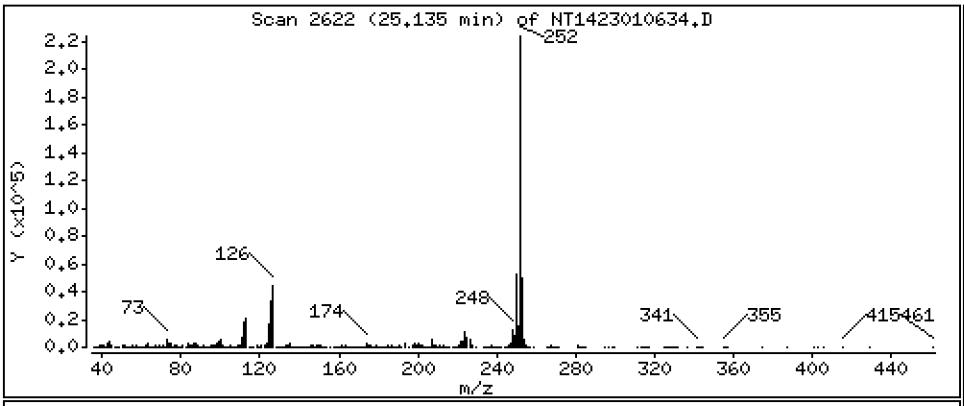
Operator: VTS

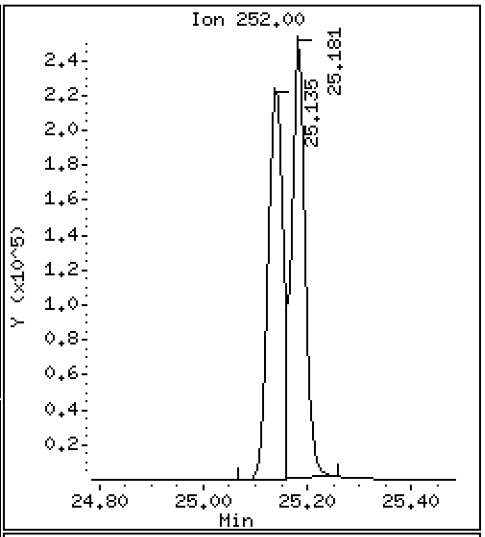
Column phase: ZB-5msi

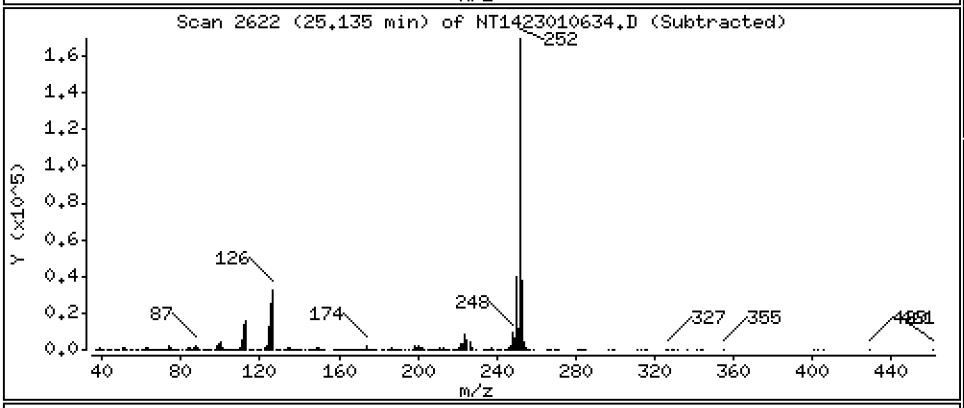
Column diameter: 0.25

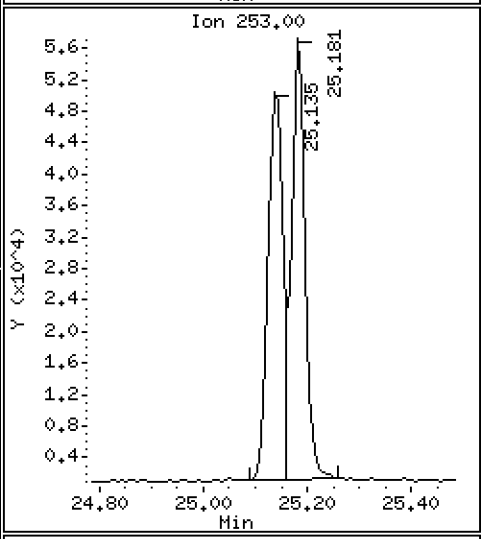
74 Benzo(b)fluoranthene

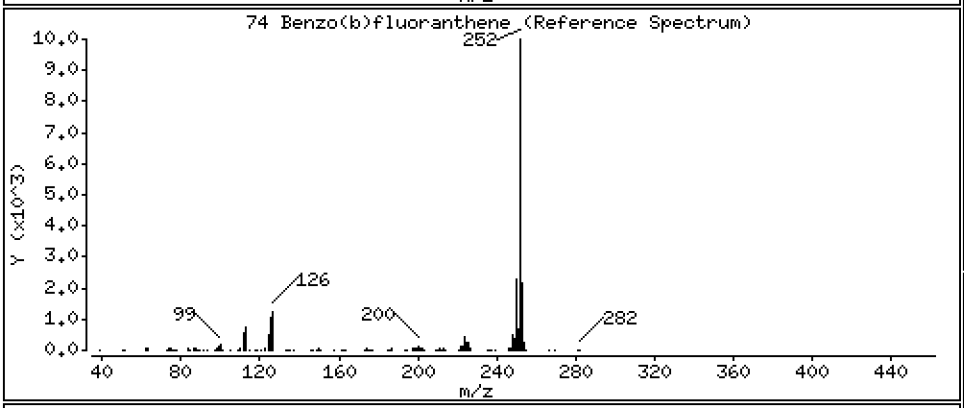
Concentration: 5.059 ug/mL

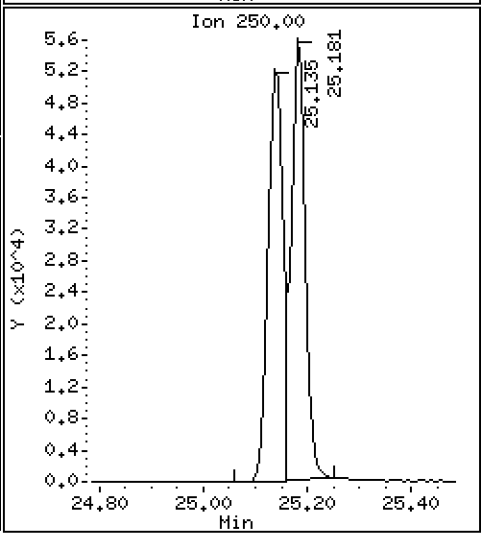


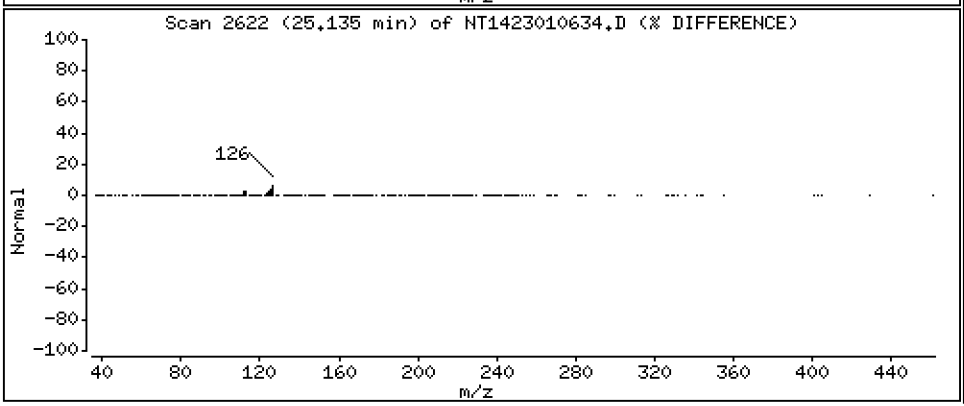












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

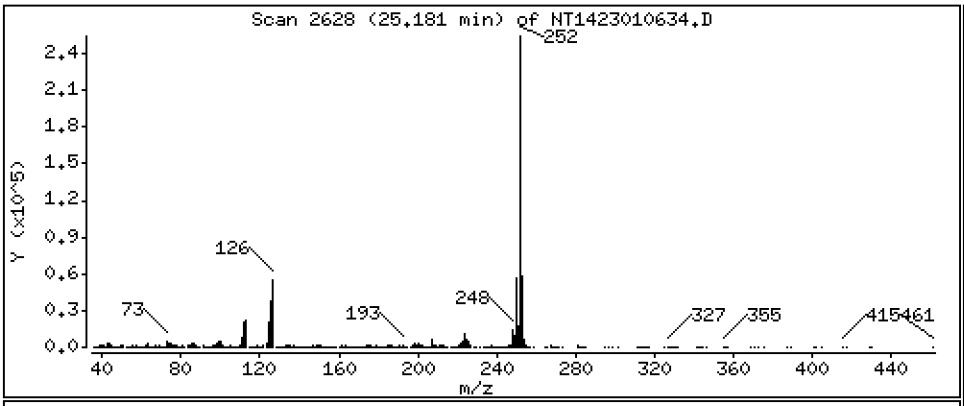
Operator: VTS

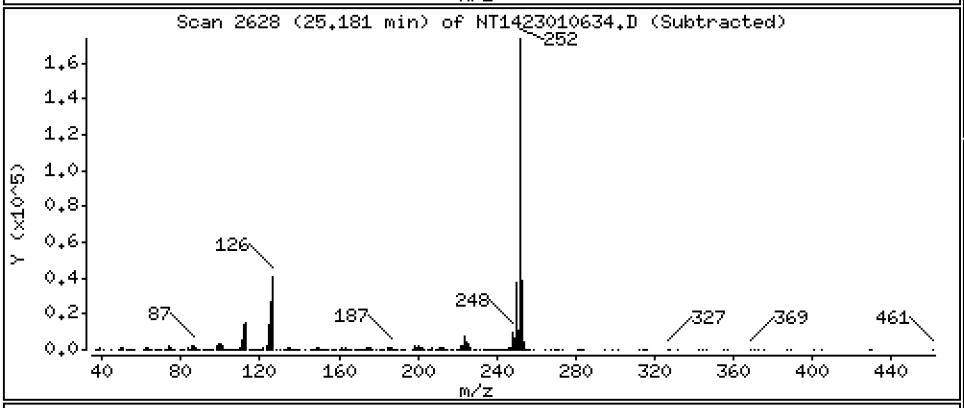
Column phase: ZB-5msi

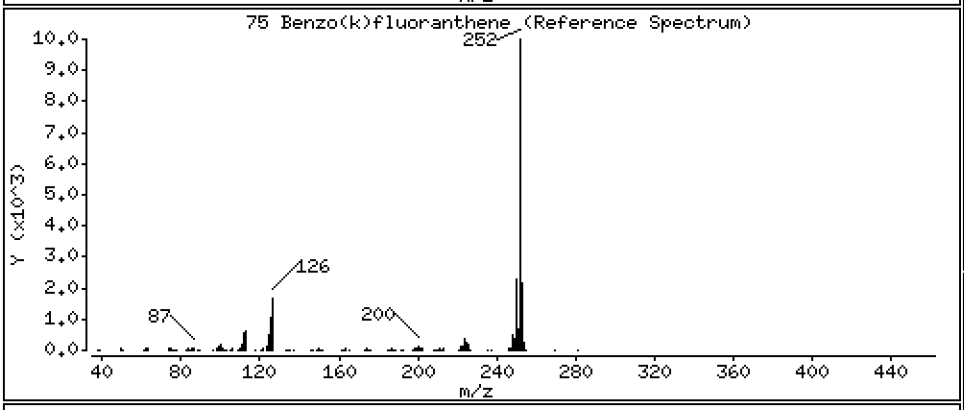
Column diameter: 0.25

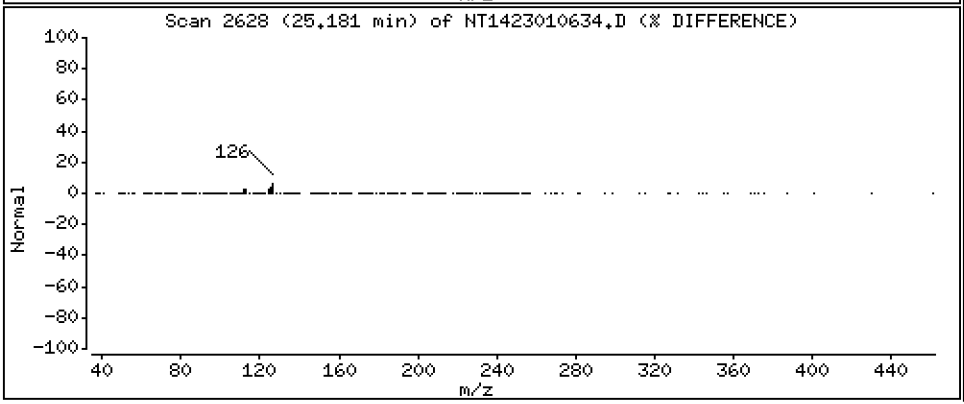
75 Benzo(k)fluoranthene

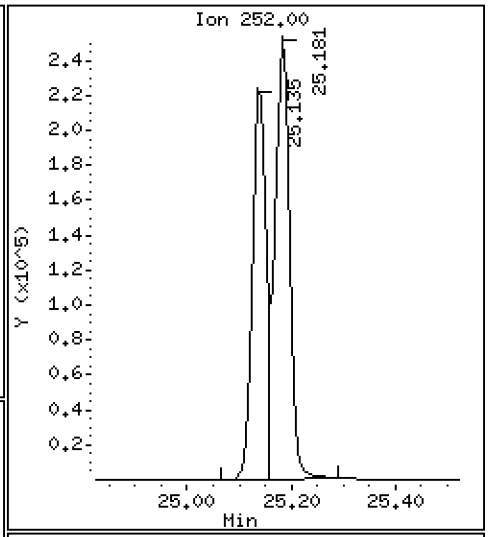
Concentration: 5.721 ug/mL

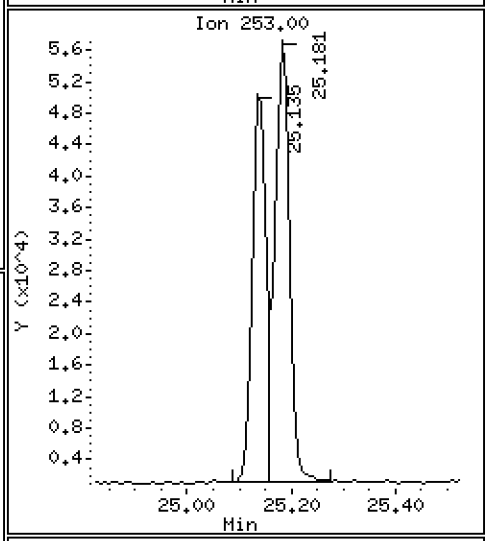


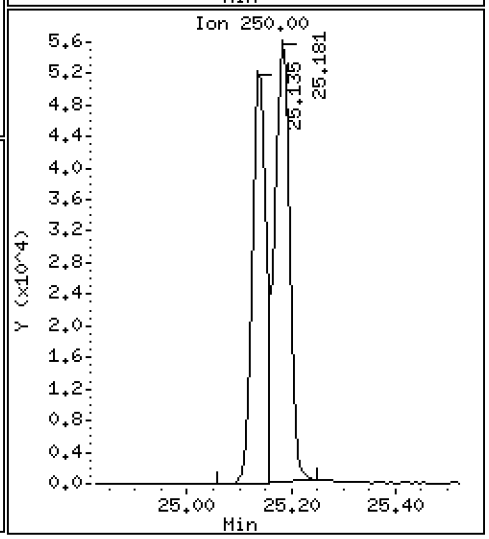












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

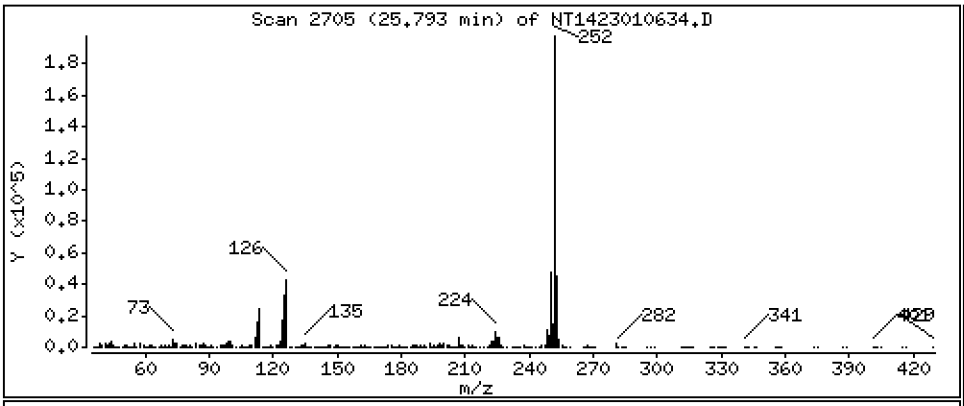
Operator: VTS

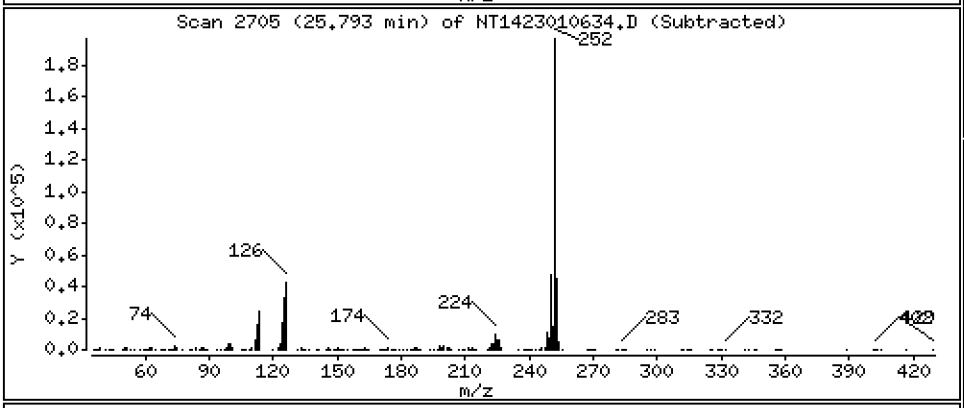
Column phase: ZB-5msi

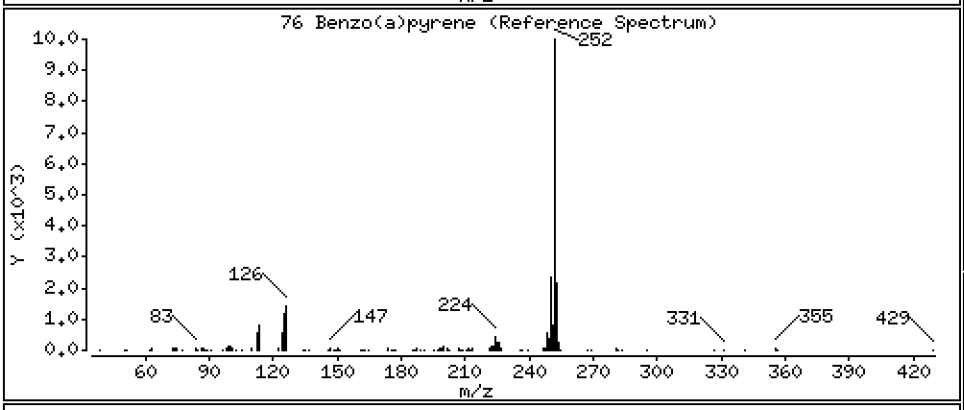
Column diameter: 0.25

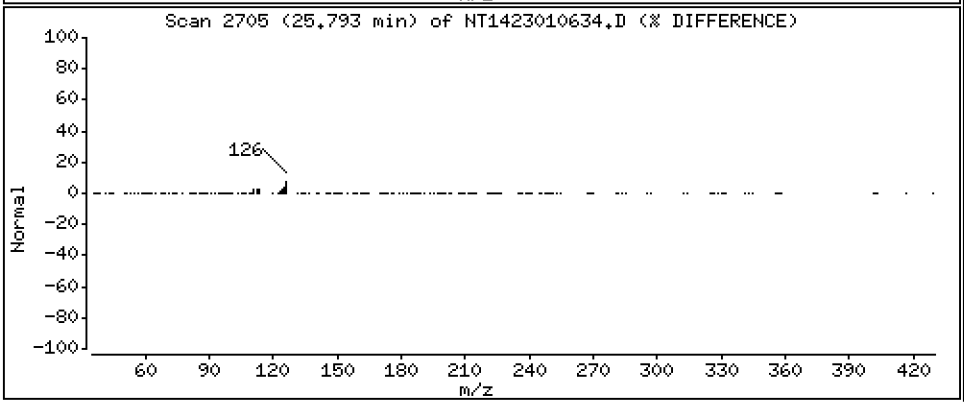
76 Benzo(a)pyrene

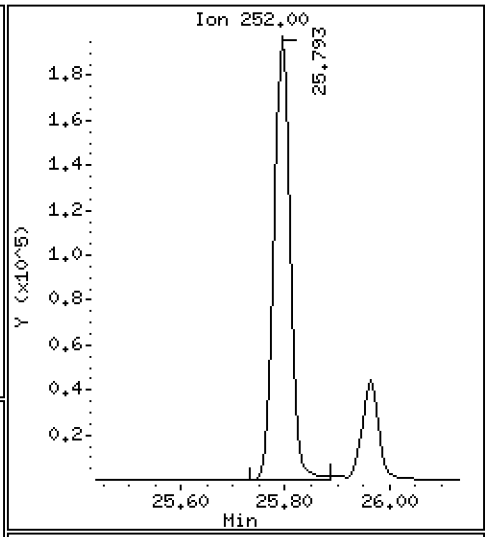
Concentration: 5.781 ug/mL

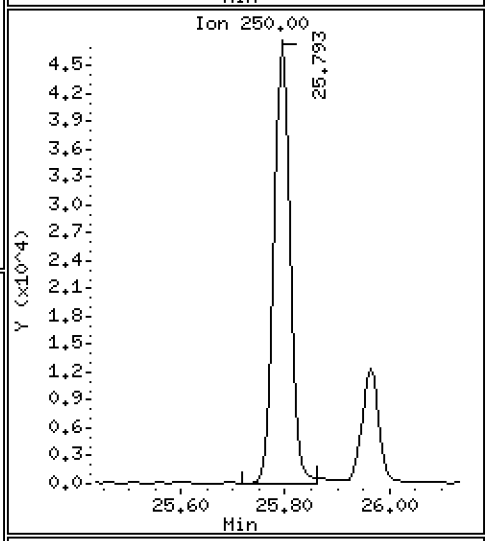


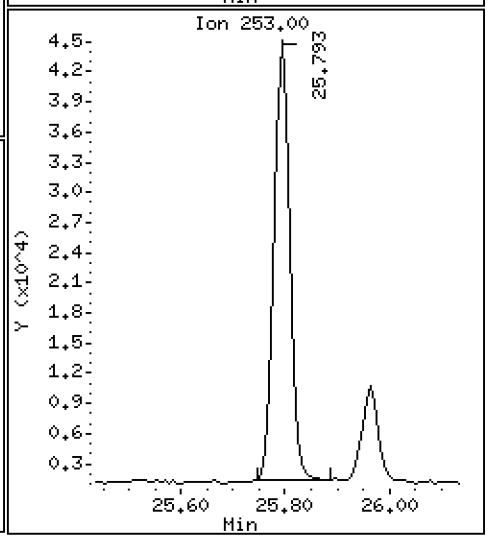












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

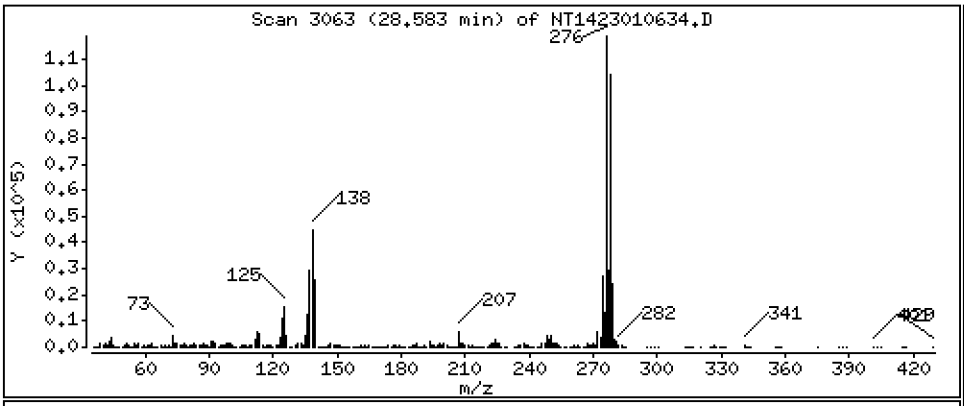
Operator: VTS

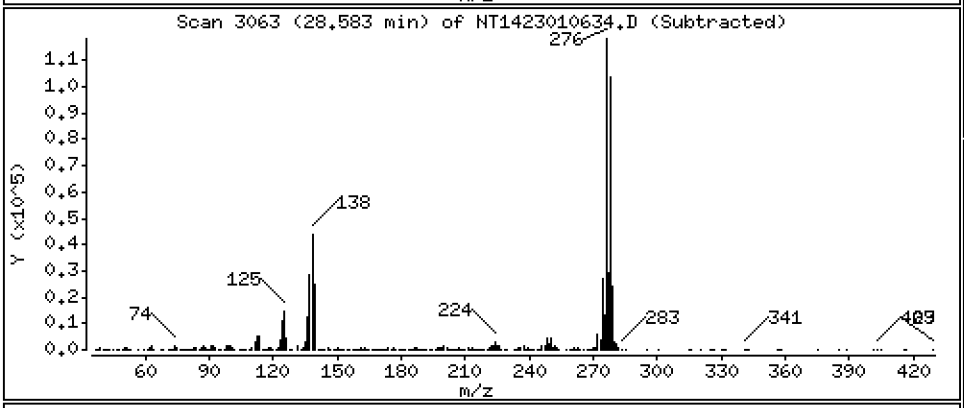
Column phase: ZB-5msi

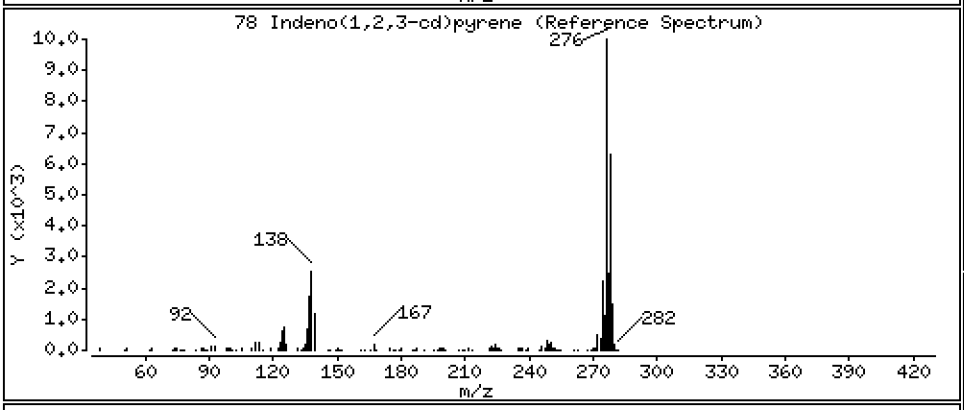
Column diameter: 0.25

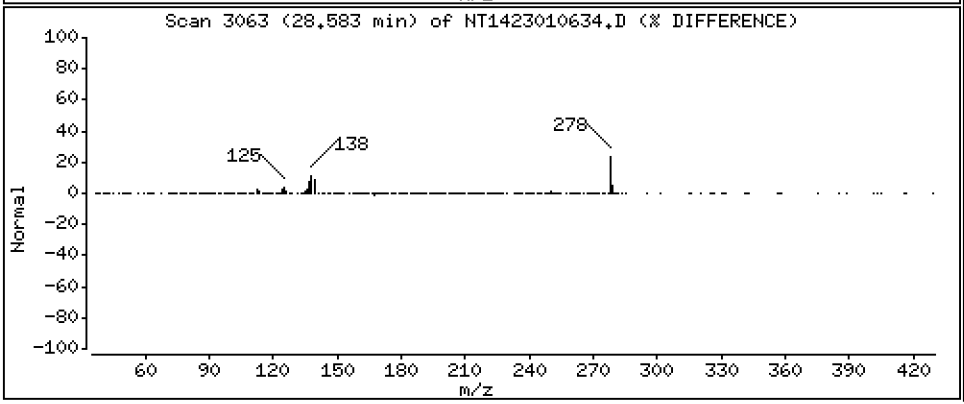
78 Indeno(1,2,3-cd)pyrene

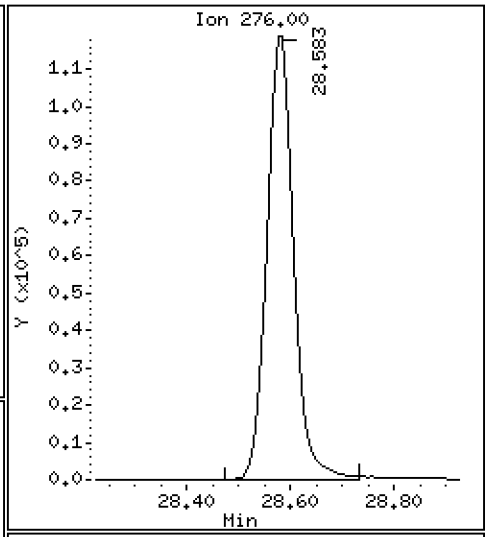
Concentration: 5.178 ug/mL

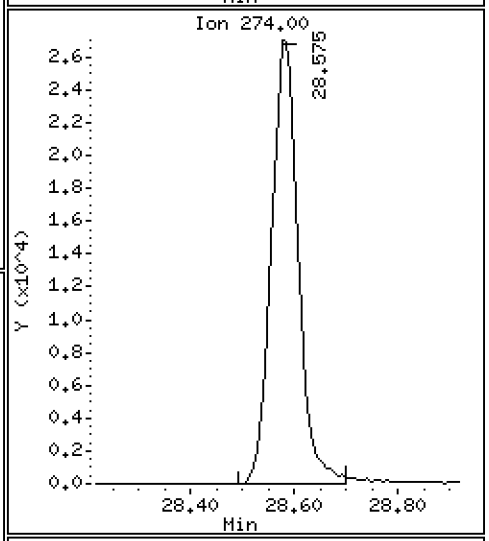


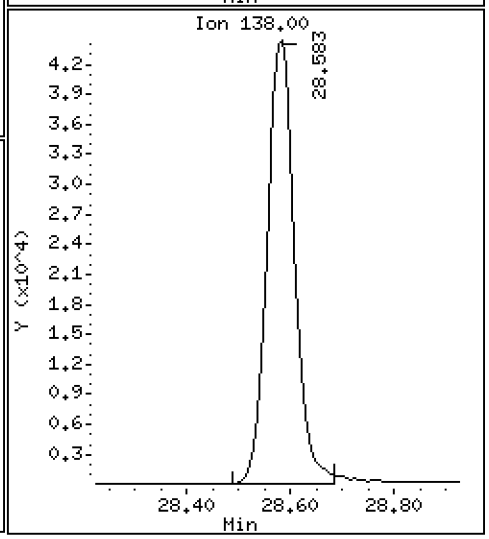












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

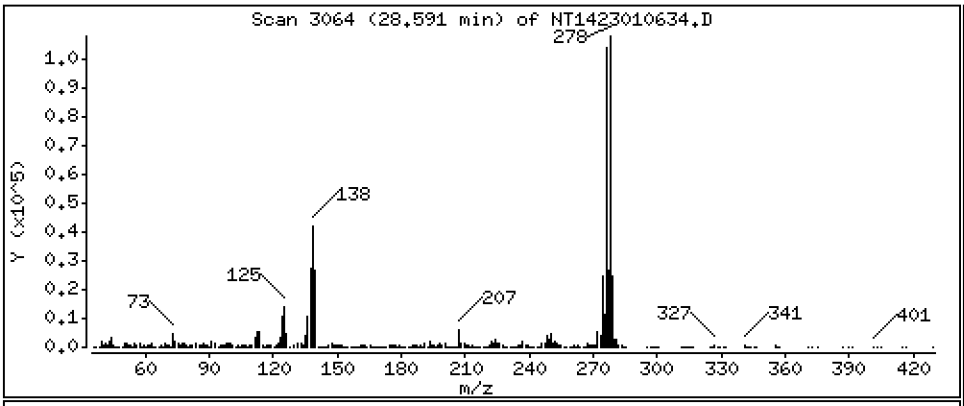
Operator: VTS

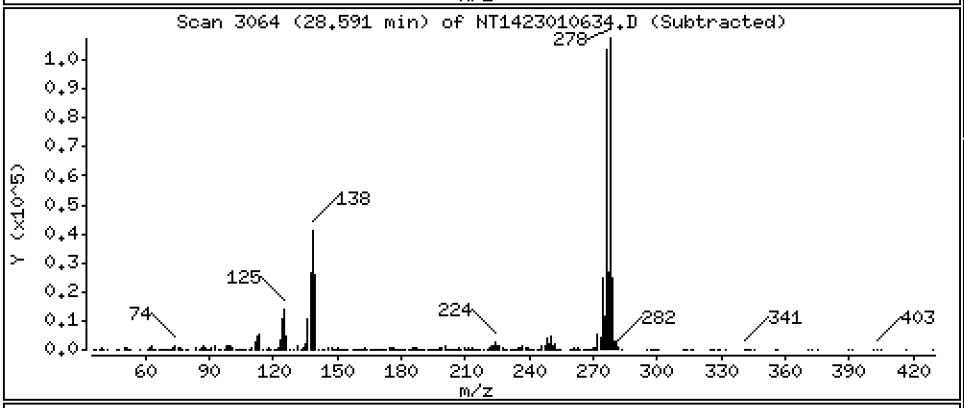
Column phase: ZB-5msi

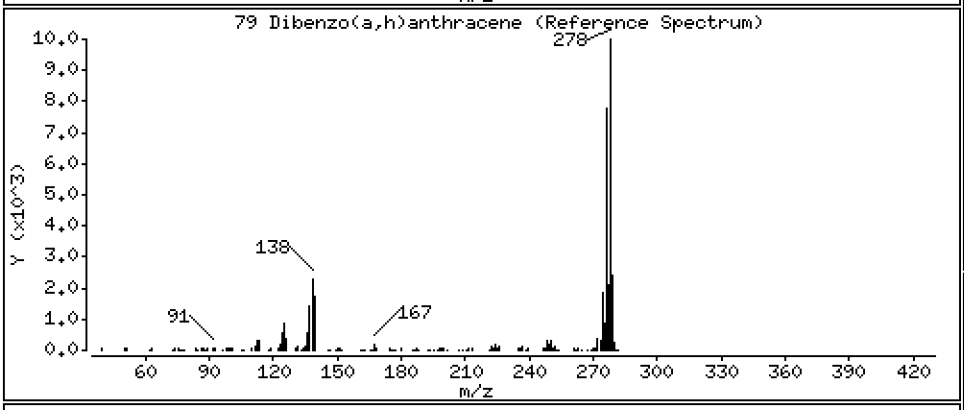
Column diameter: 0.25

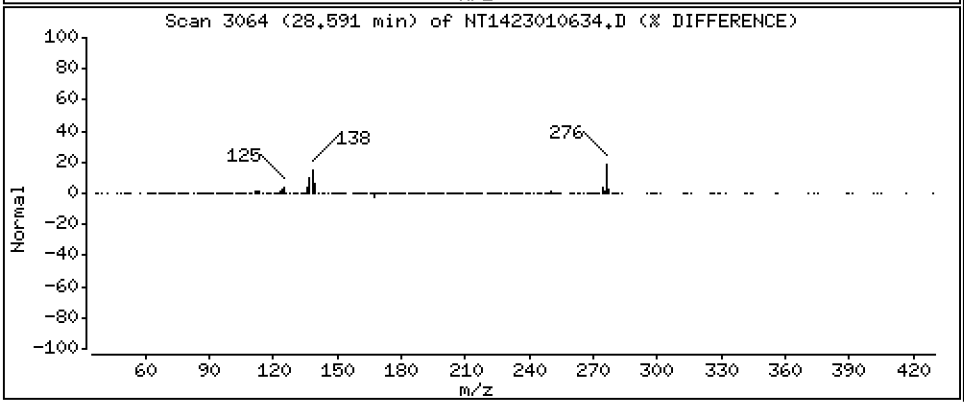
79 Dibenzo(a,h)anthracene

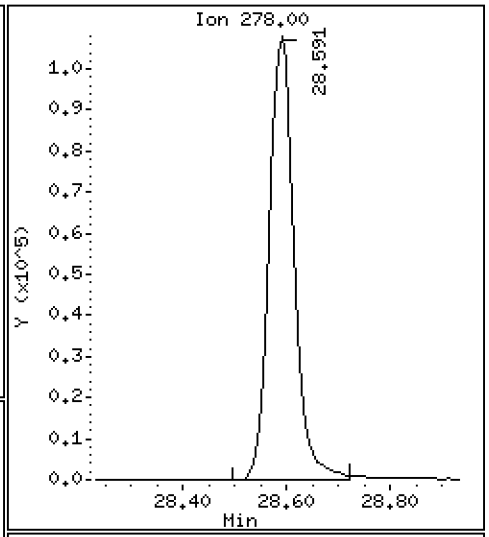
Concentration: 5.193 ug/mL

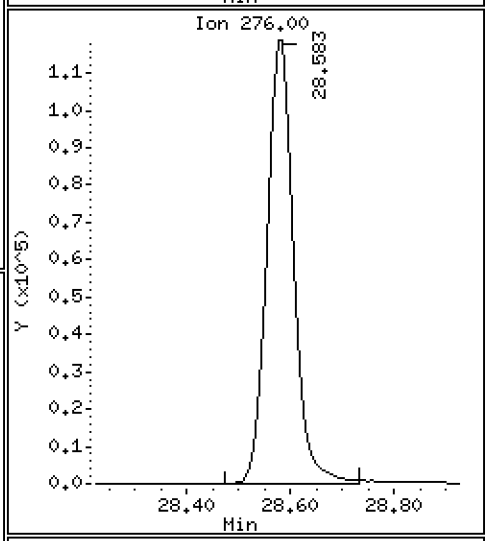


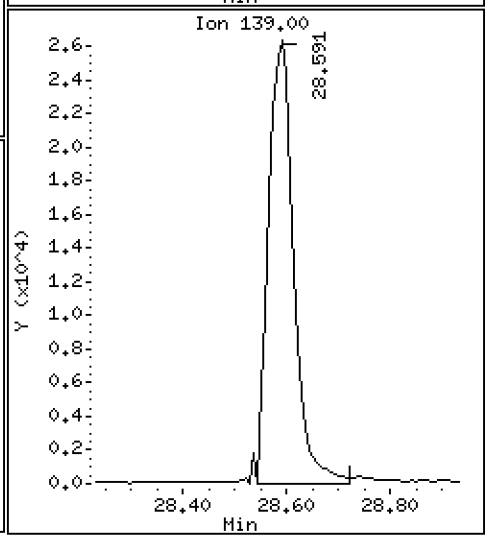












Date : 07-JAN-2023 07:27

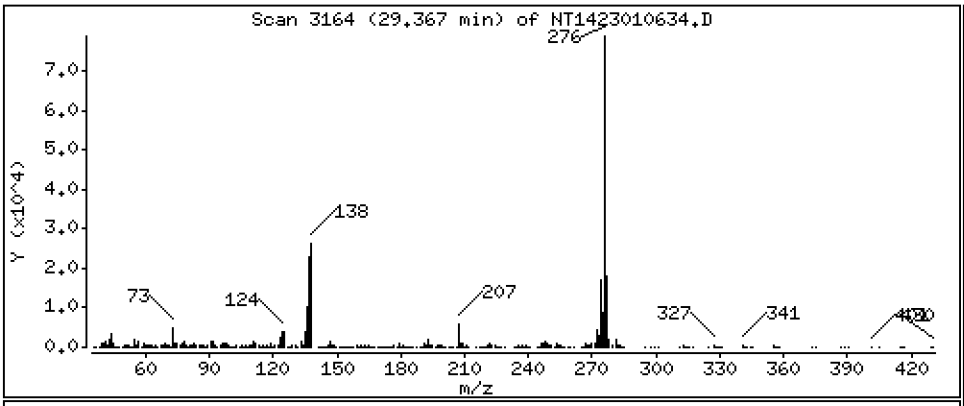
Client ID: Instrument: nt14.i

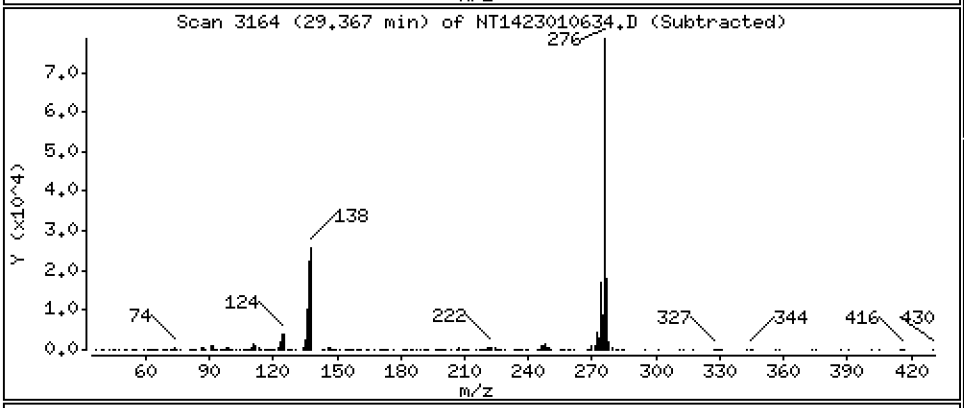
Sample Info: SLA0068-CCV1

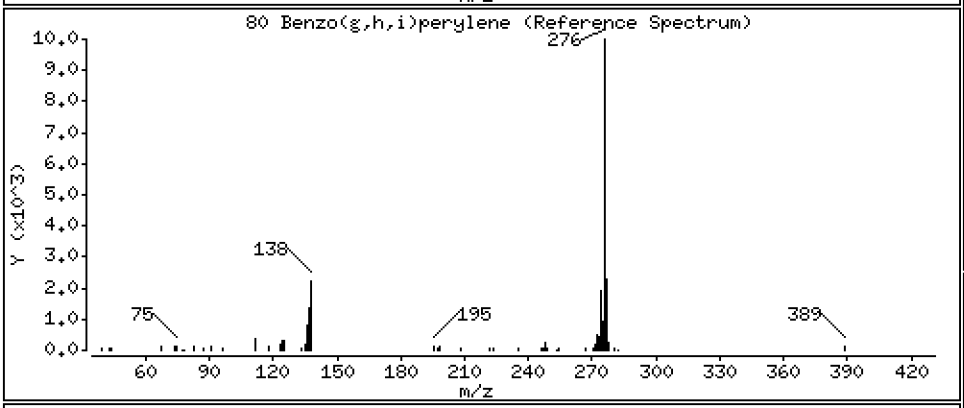
Operator: VTS

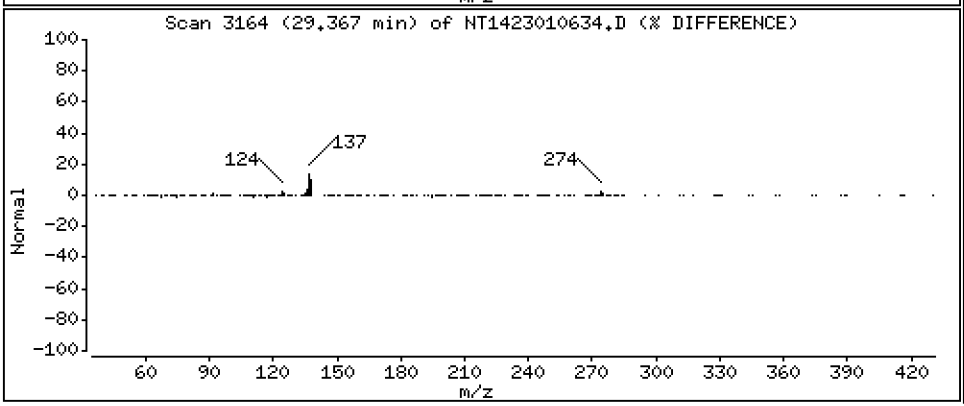
Column phase: ZB-5msi Column diameter: 0.25

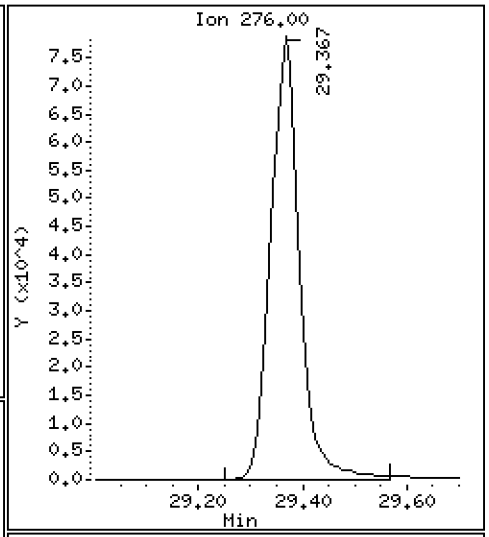
80 Benzo(g,h,i)perylene Concentration: 4.490 ug/mL

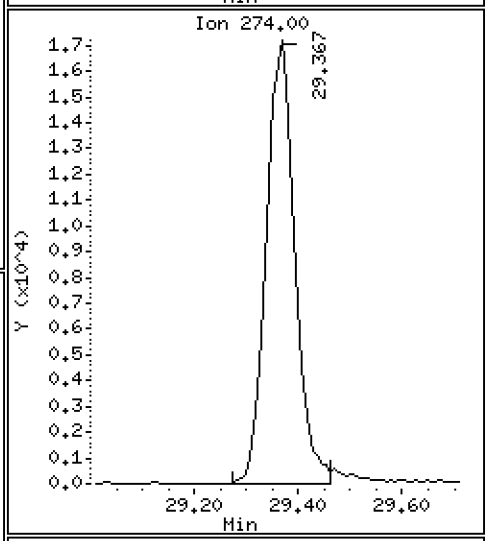


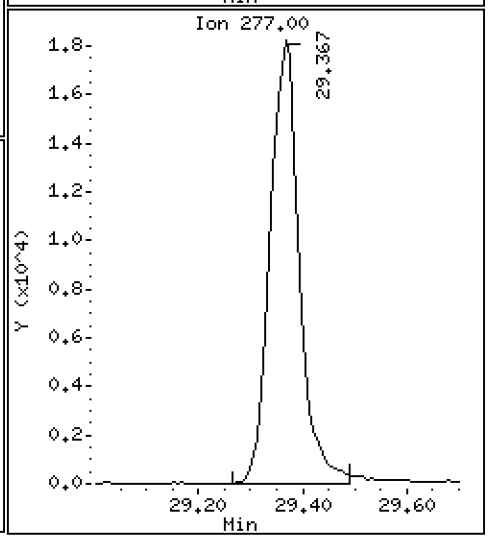












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

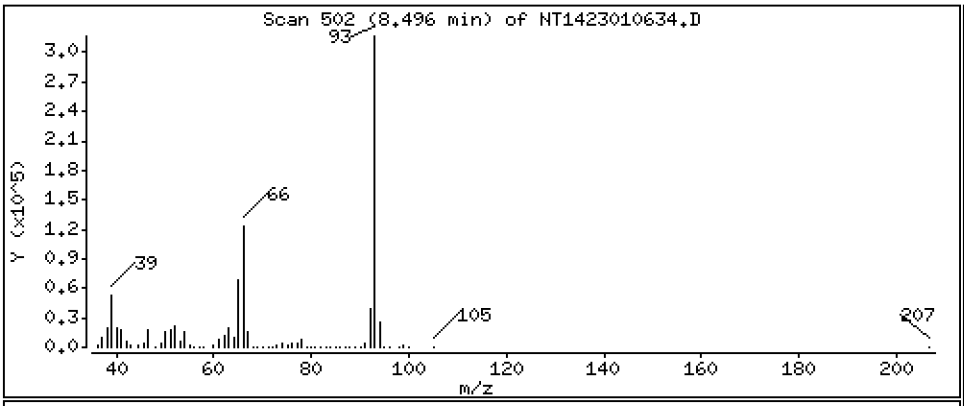
Operator: VTS

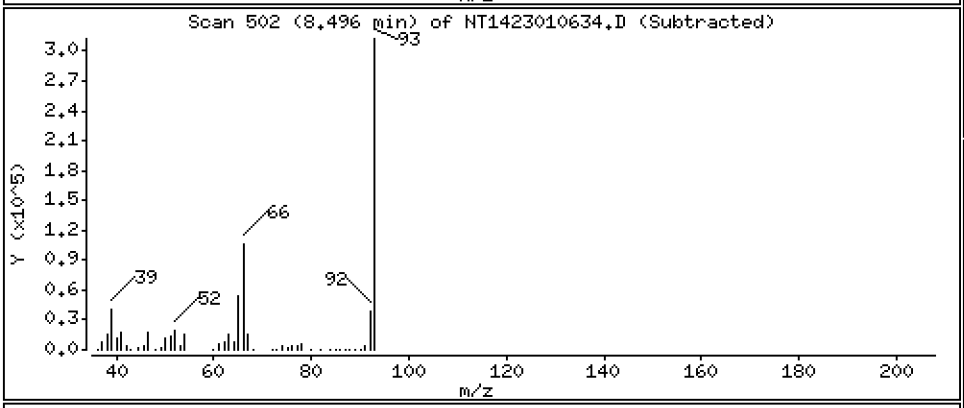
Column phase: ZB-5msi

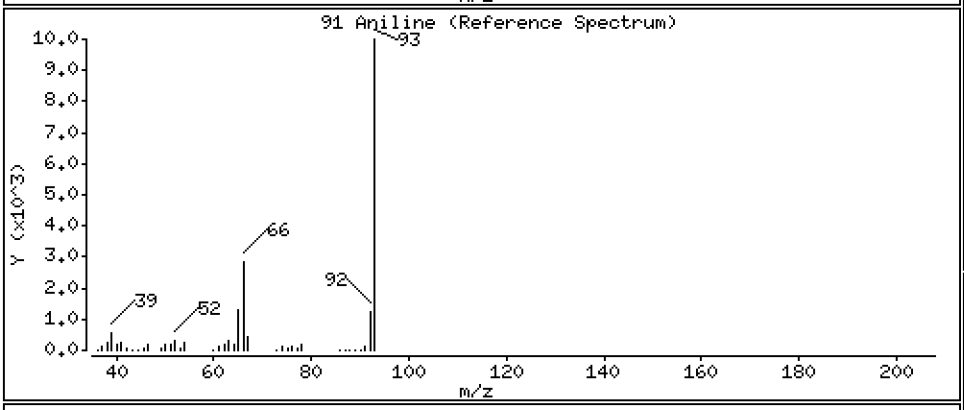
Column diameter: 0.25

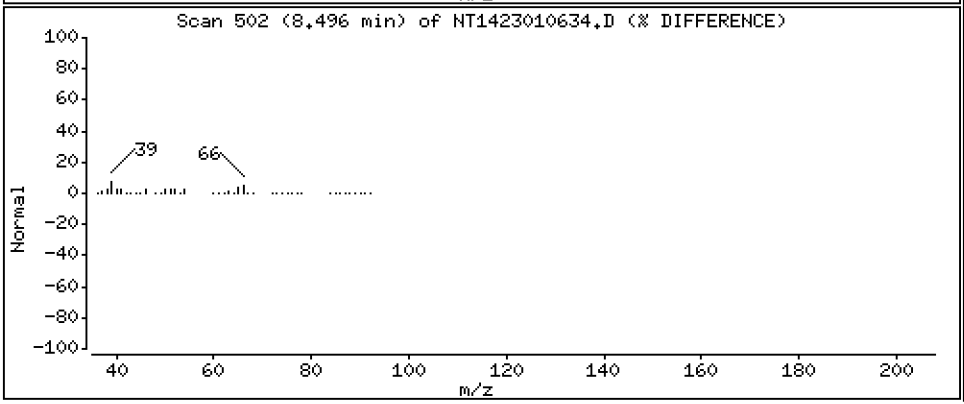
91 Aniline

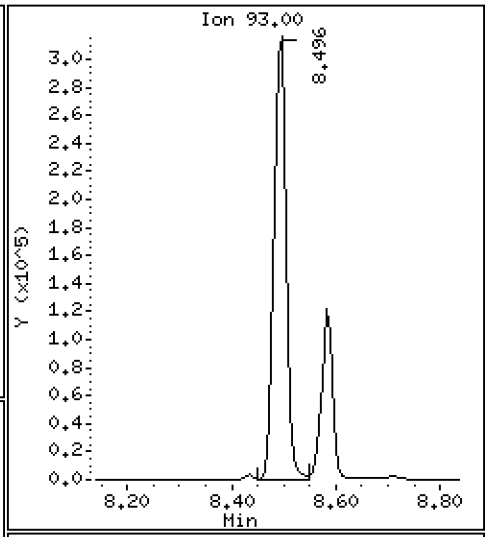
Concentration: 10.57 ug/mL

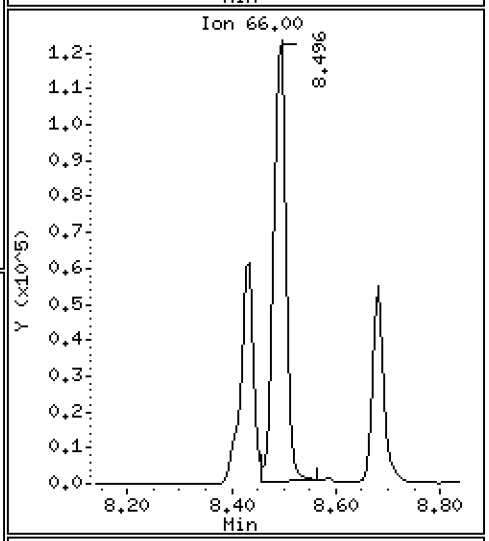


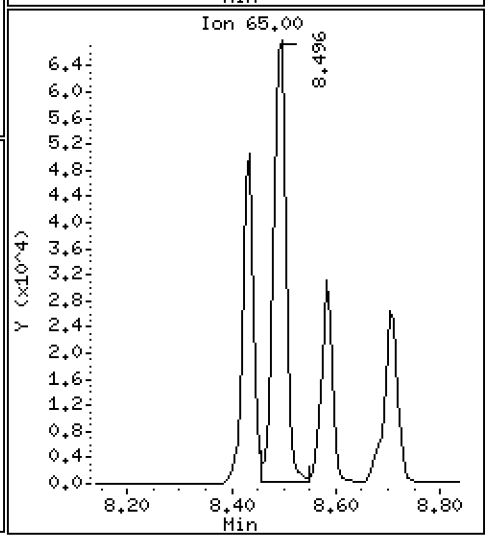












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

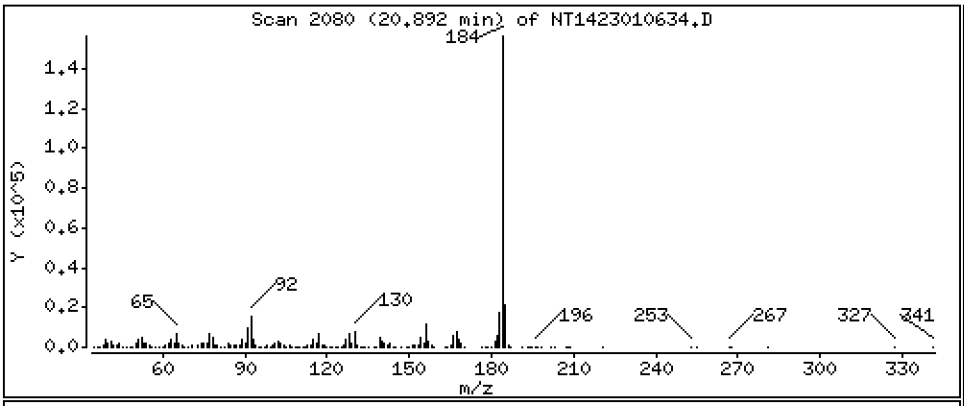
Operator: VTS

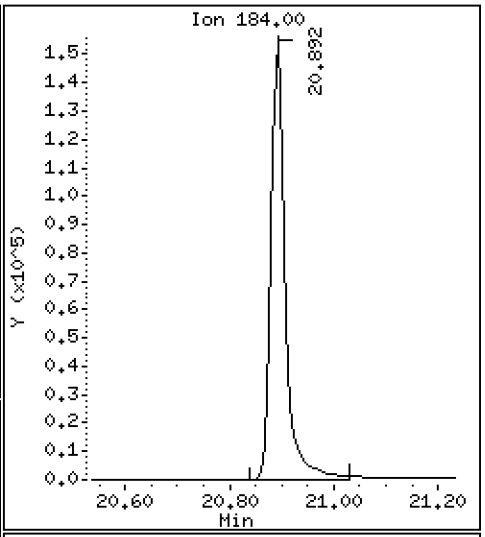
Column phase: ZB-5msi

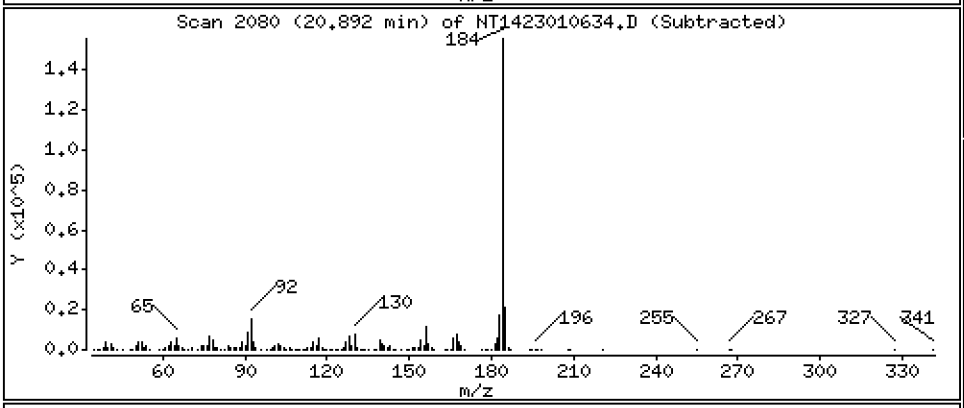
Column diameter: 0.25

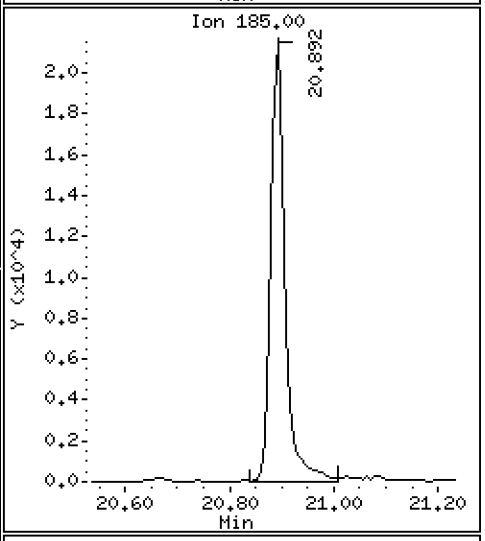
93 Benzidine

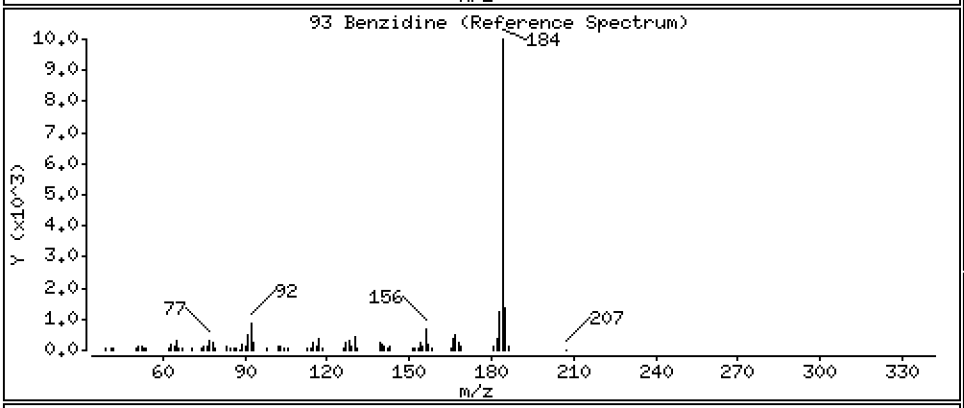
Concentration: 8.569 ug/mL

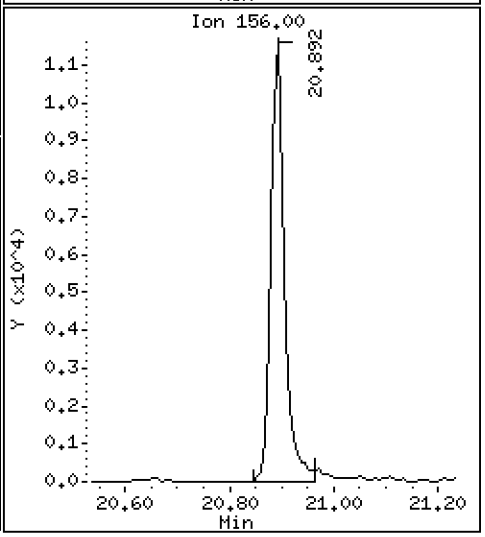


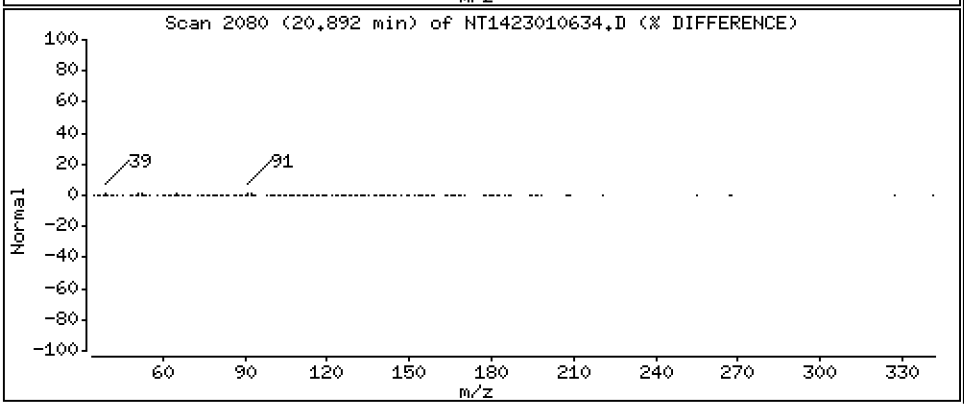












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

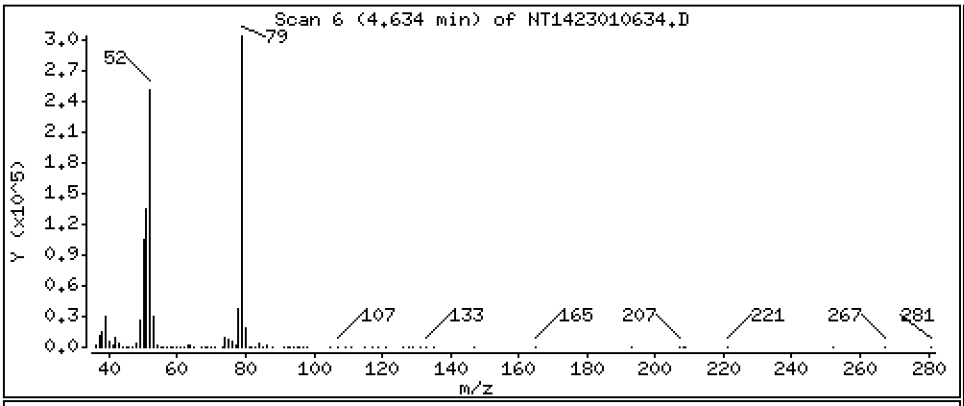
Operator: VTS

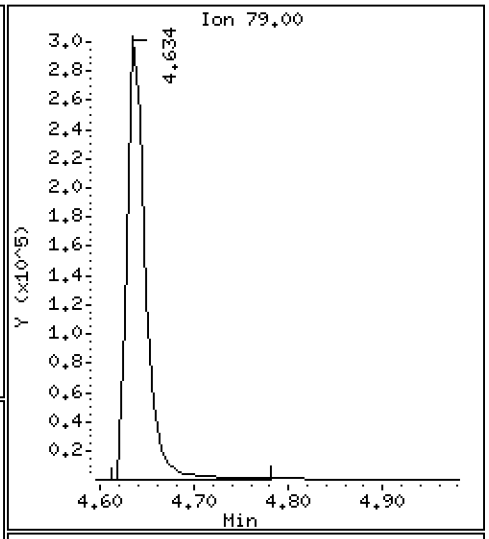
Column phase: ZB-5msi

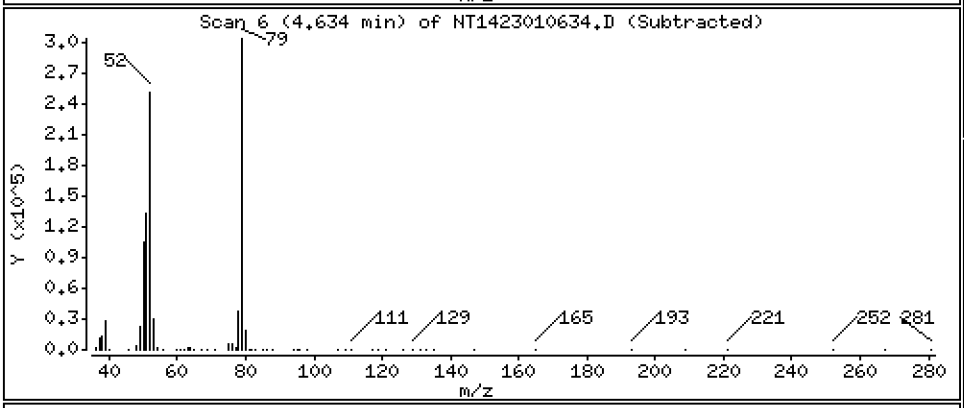
Column diameter: 0.25

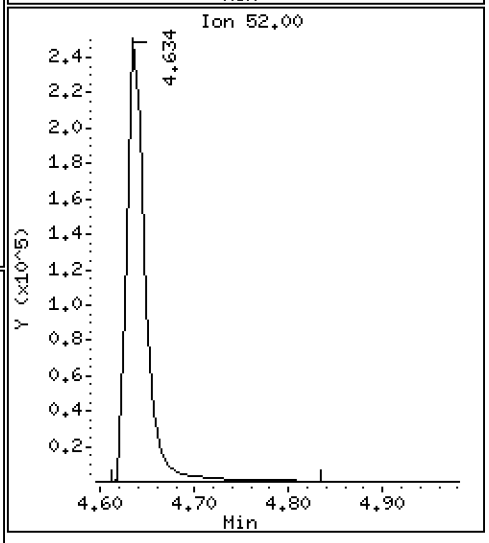
103 Pyridine

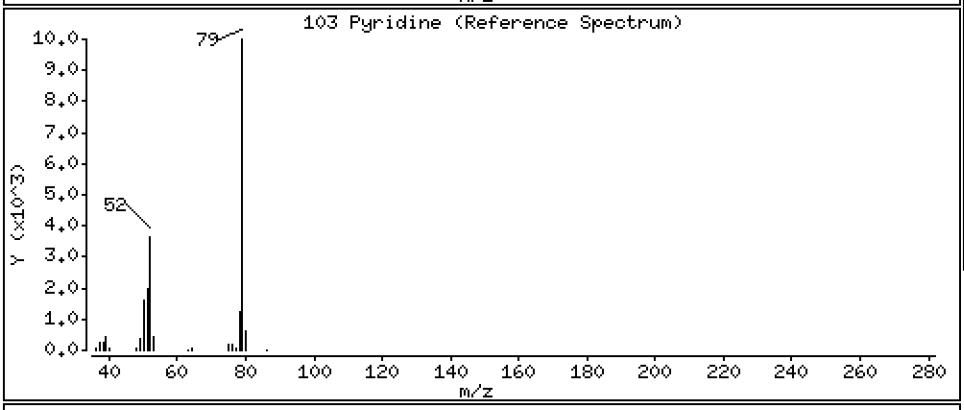
Concentration: 5.649 ug/mL

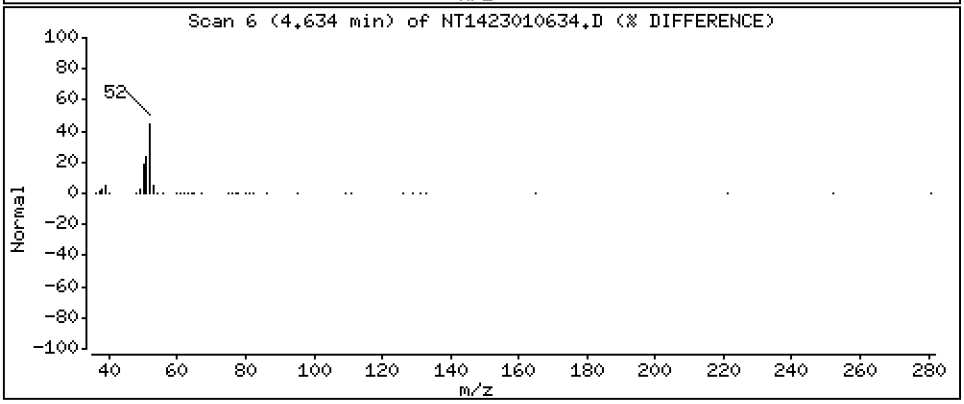












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

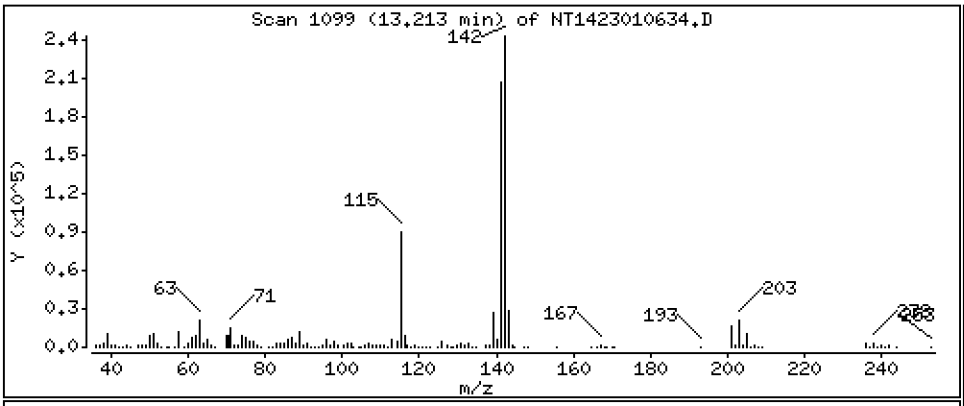
Operator: VTS

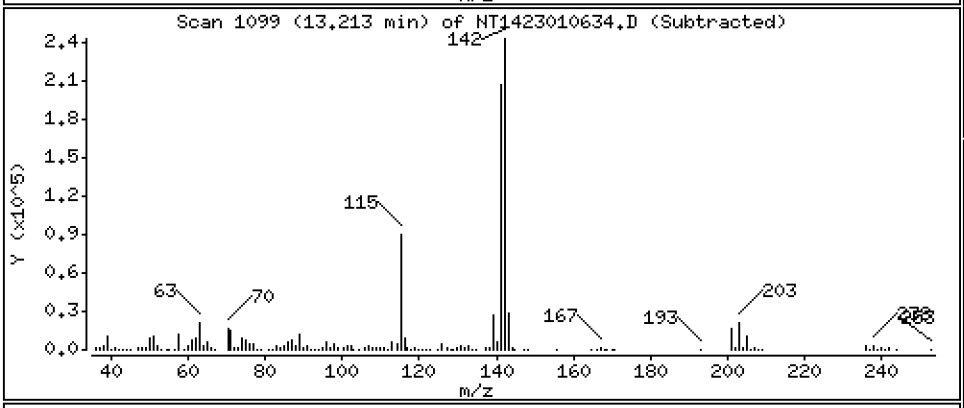
Column phase: ZB-5msi

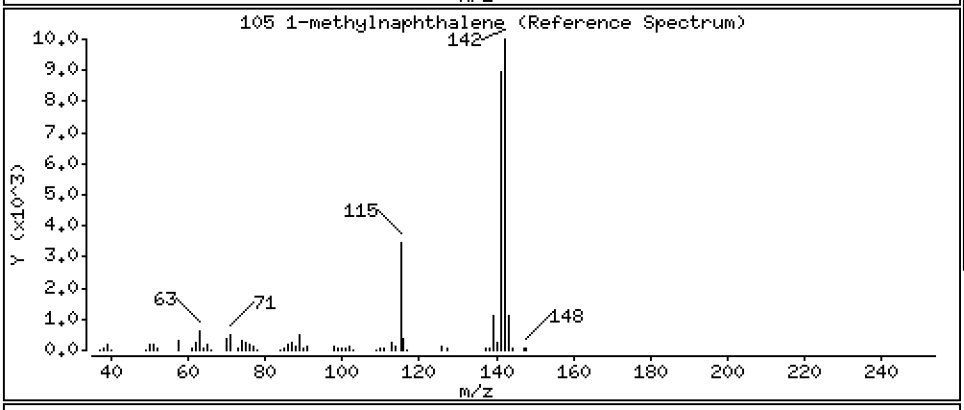
Column diameter: 0.25

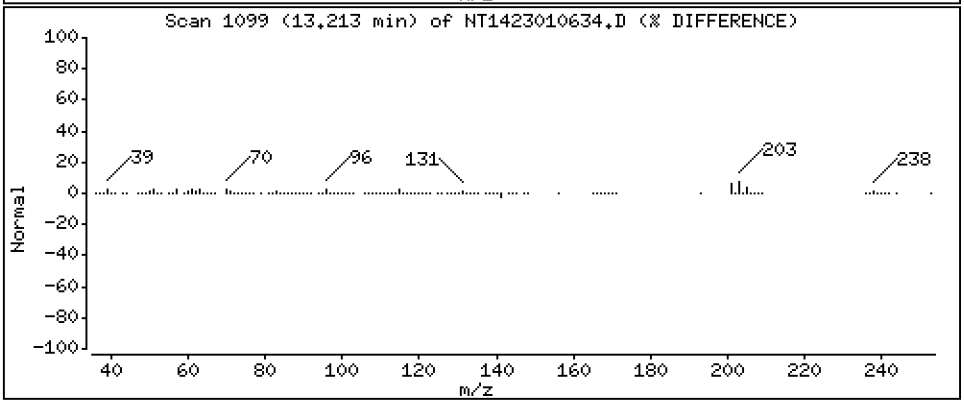
105 1-methylnaphthalene

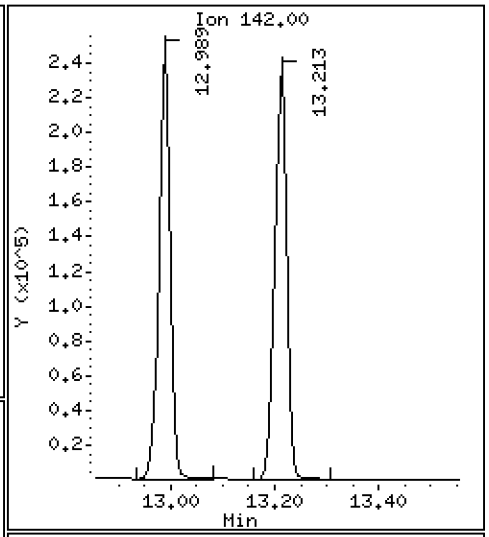
Concentration: 5.302 ug/mL

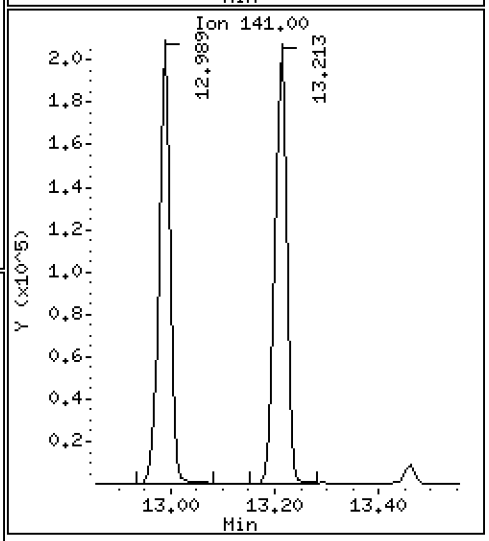












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

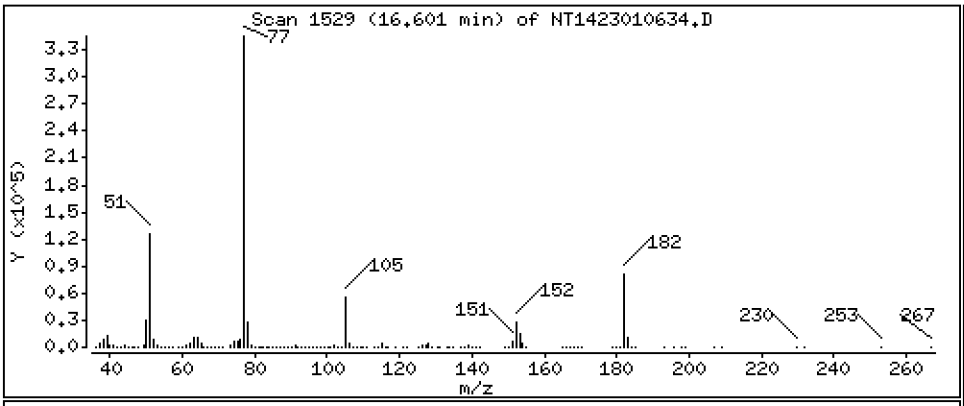
Operator: VTS

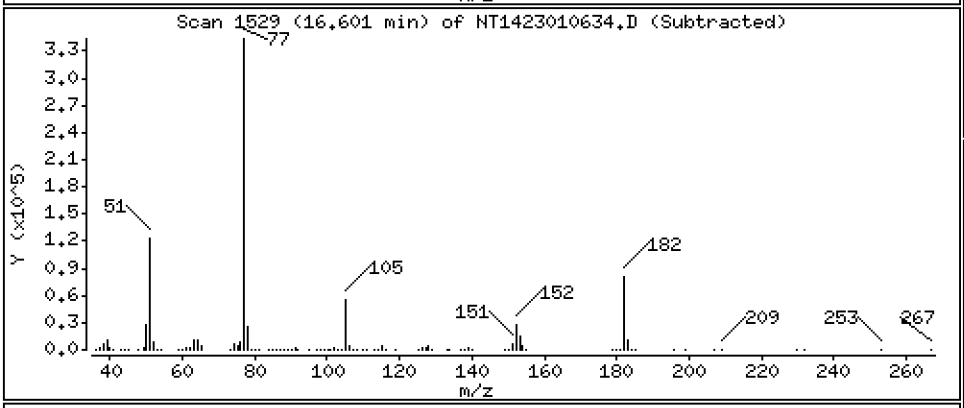
Column phase: ZB-5msi

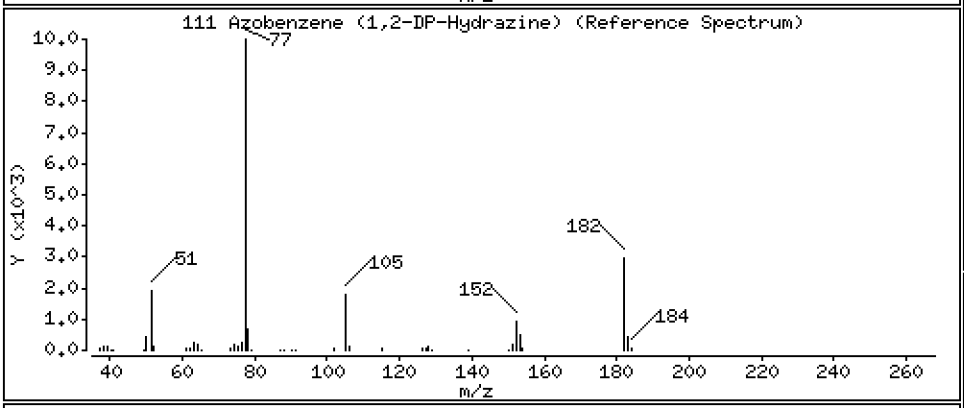
Column diameter: 0.25

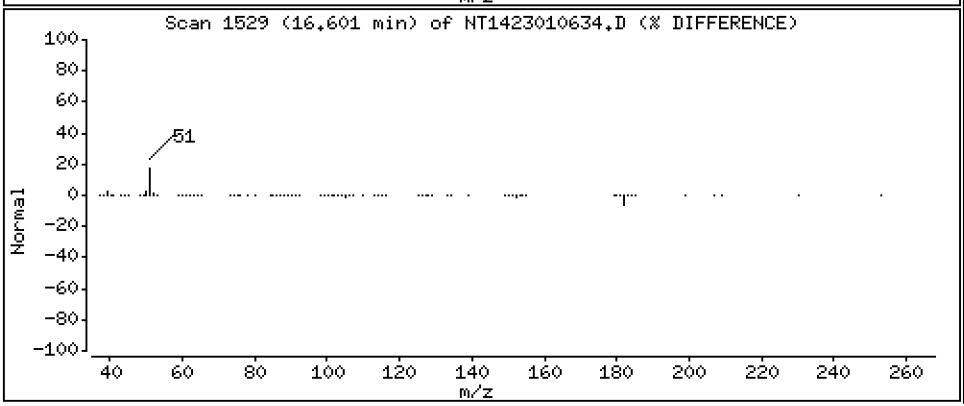
111 Azobenzene (1,2-DP-Hydrazine)

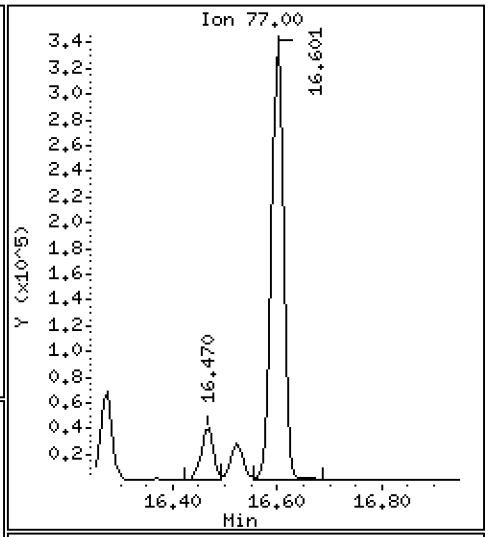
Concentration: 6.853 ug/mL

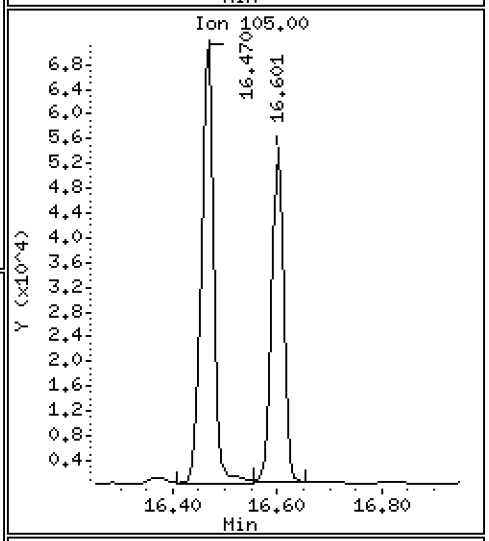


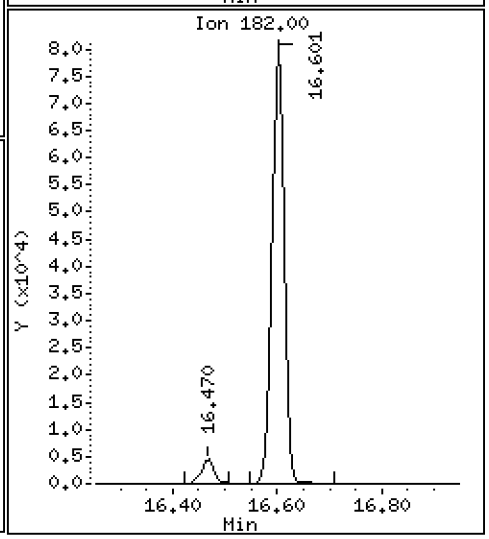












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

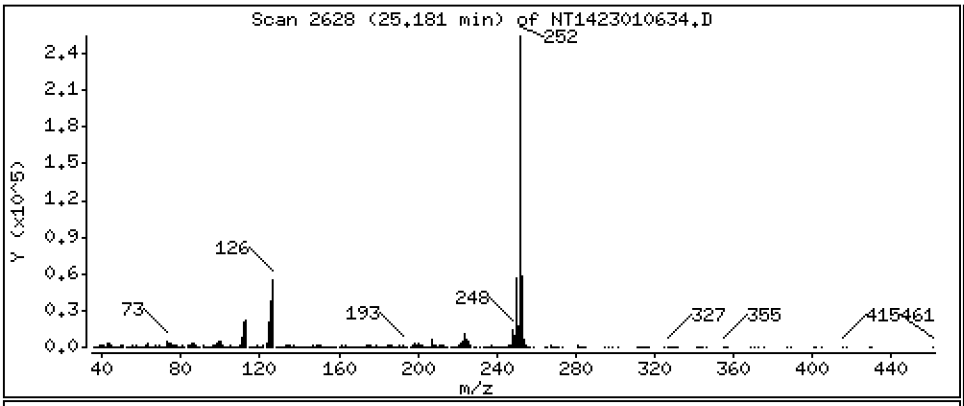
Operator: VTS

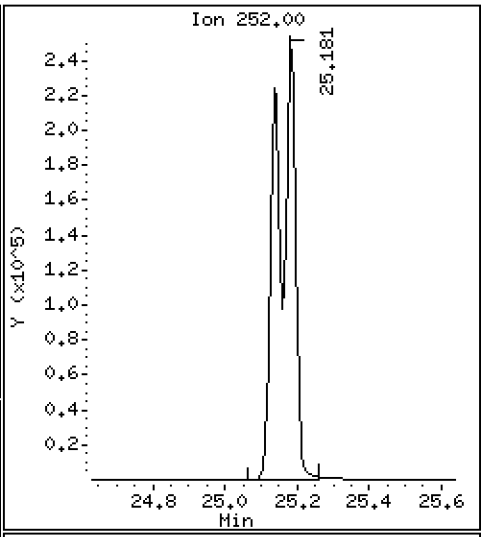
Column phase: ZB-5msi

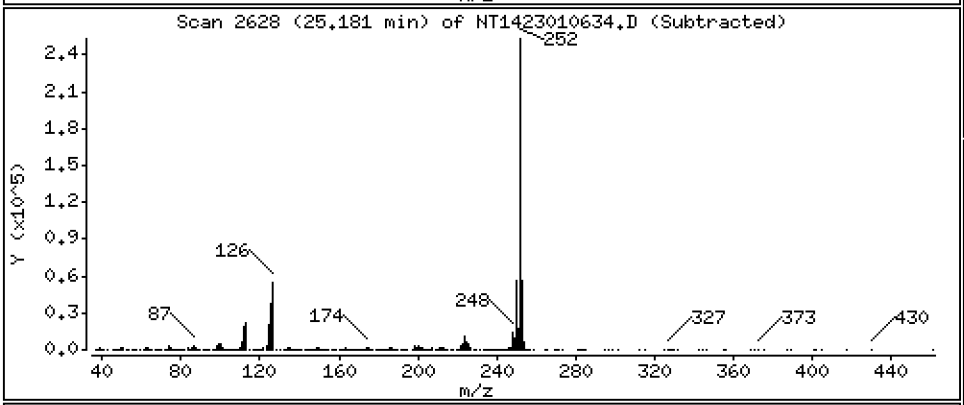
Column diameter: 0.25

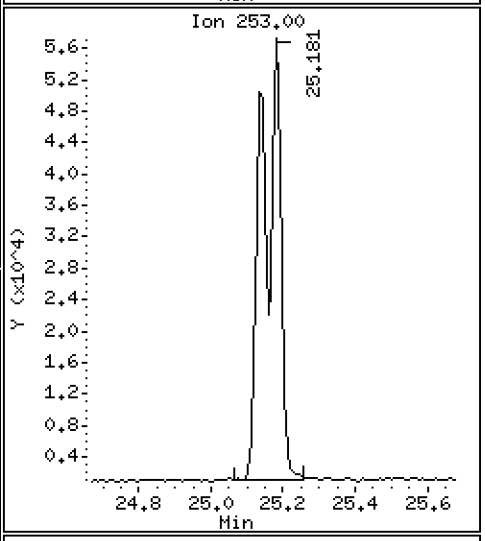
187 Total Benzofluoranthenes

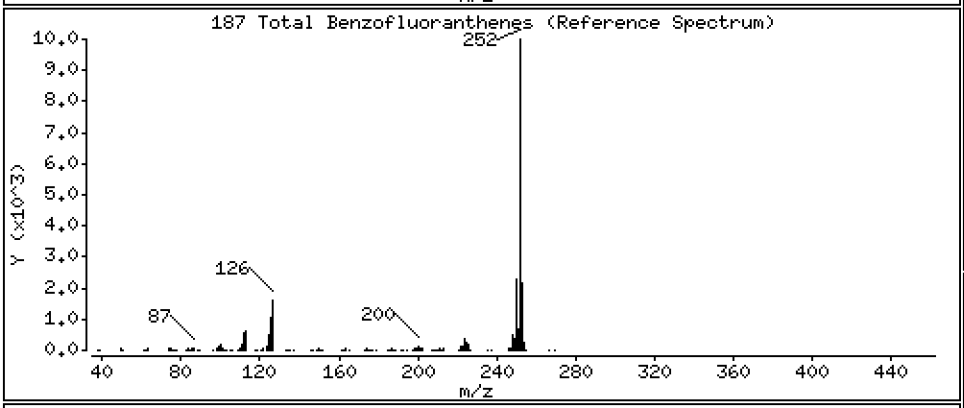
Concentration: 10.75 ug/mL

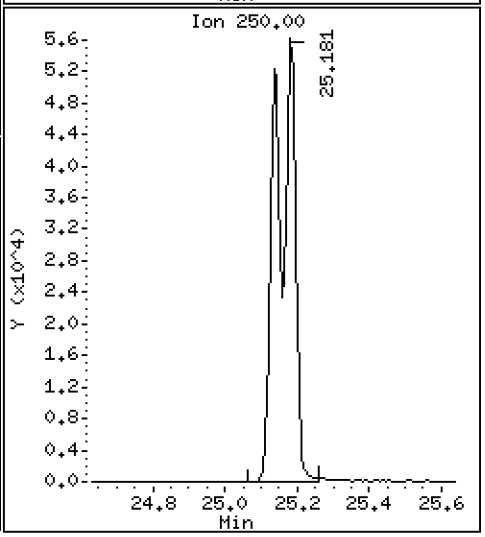


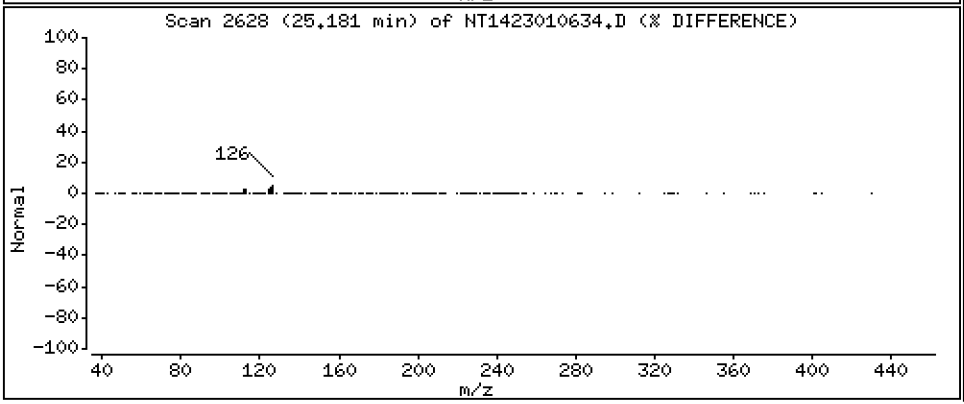












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Date : 07-JAN-2023 07:27

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-CCV1

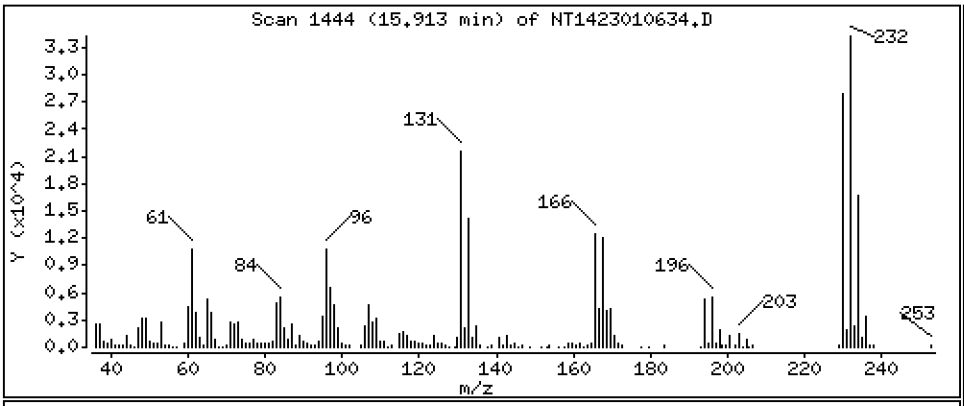
Operator: VTS

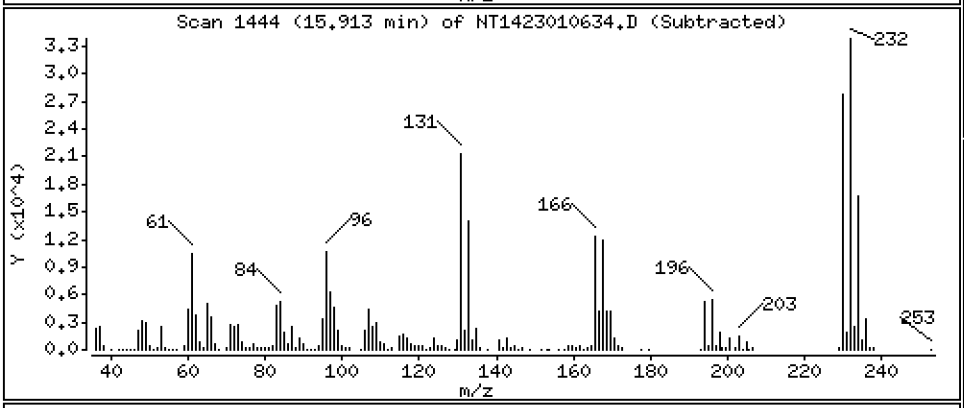
Column phase: ZB-5msi

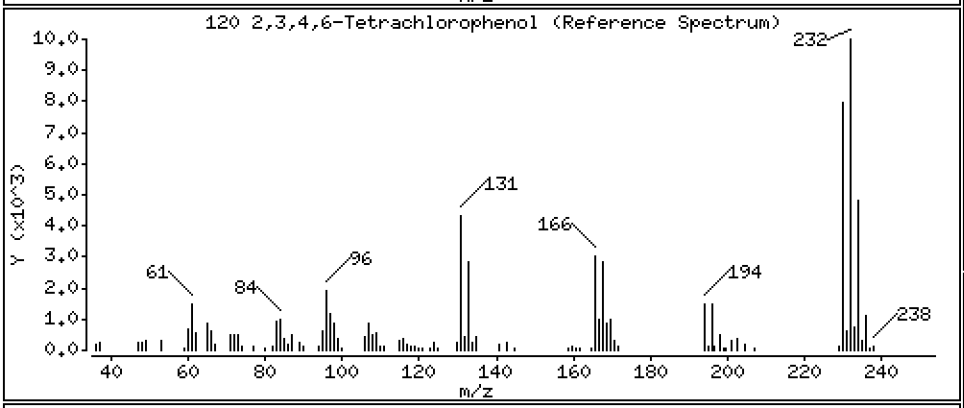
Column diameter: 0.25

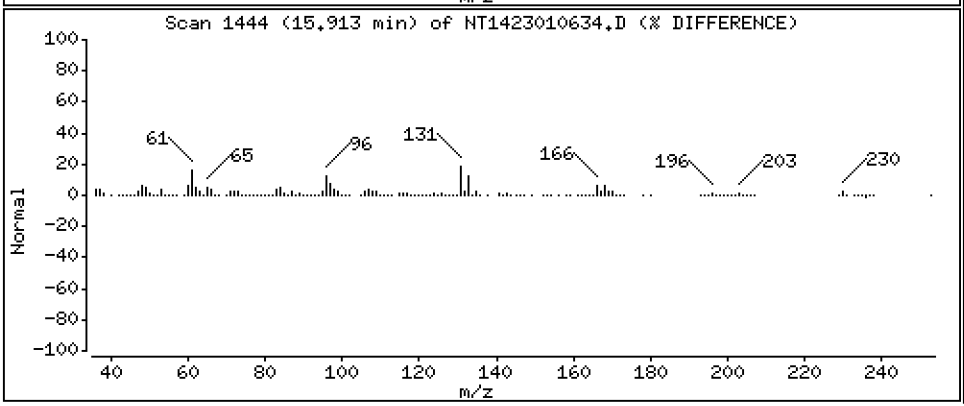
120 2,3,4,6-Tetrachlorophenol

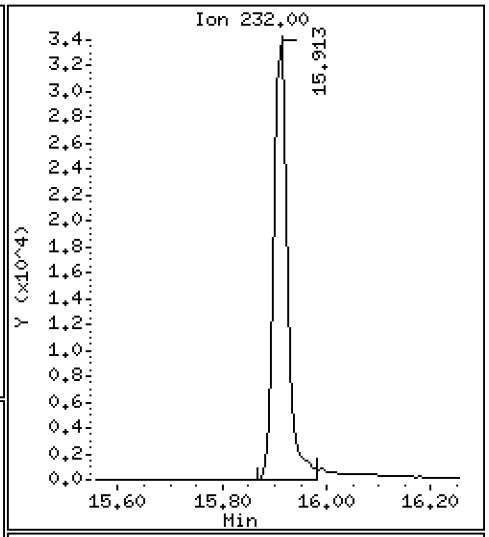
Concentration: 4.025 ug/mL

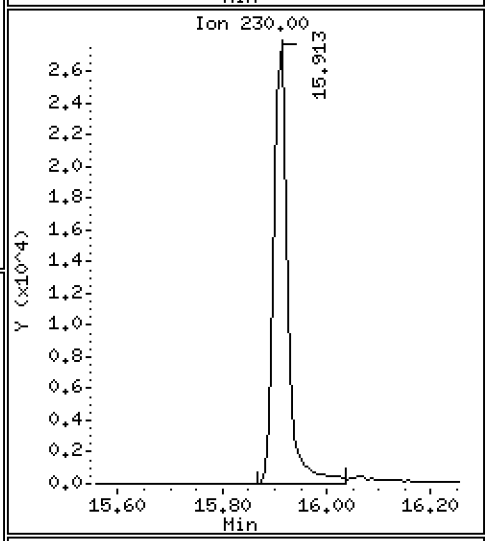


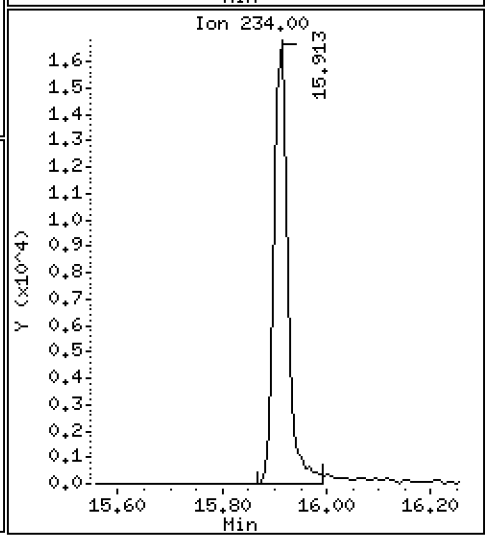












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010634.D
Lab Smp Id: SLA0068-CCV1
Inj Date : 07-JAN-2023 07:27 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-CCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 2
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

			QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1	2-Fluorophenol	112	6.811	6.811	(0.753)	276336	8.16079	8.161
$	2	Phenol-d5	99	8.410	8.403	(0.930)	344117	8.22330	8.223
	3	Phenol	94	8.434	8.426	(0.932)	246251	5.17882	5.179
$	5	2-Chlorophenol-d4	132	8.681	8.673	(0.960)	285408	8.12097	8.121
	4	Bis(2-Chloroethyl)ether	93	8.580	8.580	(0.949)	176130	5.37715	5.377
	6	2-Chlorophenol	128	8.712	8.704	(0.963)	199570	5.17057	5.171
	7	1,3-Dichlorobenzene	146	8.975	8.975	(0.992)	210513	5.14346	5.143
*	8	1,4-Dichlorobenzene-d4	152	9.045	9.037	(1.000)	105694	4.00000	
	9	1,4-Dichlorobenzene	146	9.076	9.068	(1.003)	220911	5.69740	5.697
$	10	1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.039)	125943	5.24314	5.243
	12	1,2-Dichlorobenzene	146	9.433	9.425	(1.043)	197924	5.20492	5.205
	11	Benzyl alcohol	108	9.316	9.308	(1.030)	79190	3.74101	3.741
	14	2,2'-oxybis(1-Chloropropane)	121	9.619	9.611	(1.064)	62042	5.62752	5.628(M)
	13	2-Methylphenol	108	9.549	9.549	(1.056)	206662	5.98123	5.981
	17	Hexachloroethane	117	10.030	10.022	(1.109)	80580	5.65050	5.651
	16	N-Nitroso-di-n-propylamine	70	9.875	9.867	(1.092)	133551	6.34510	6.345
	15	4-Methylphenol	108	9.821	9.813	(1.086)	193262	5.30223	5.302
$	18	Nitrobenzene-d5	82	10.139	10.131	(0.878)	208052	6.19342	6.193
	19	Nitrobenzene	77	10.178	10.170	(0.882)	200014	5.99530	5.995
	20	Isophorone	82	10.628	10.620	(0.921)	290848	6.84029	6.840
	21	2-Nitrophenol	139	10.806	10.806	(0.936)	115385	5.39779	5.398
	22	2,4-Dimethylphenol	107	10.868	10.868	(0.942)	402565	11.5615	11.56
	23	Bis(2-Chloroethoxy)methane	93	11.062	11.054	(0.958)	180739	5.46410	5.464
	24	Benzoic acid	105	11.070	11.062	(0.959)	292100	13.3753	13.38
	25	2,4-Dichlorophenol	162	11.279	11.271	(0.977)	317127	10.8048	10.80
	26	1,2,4-Trichlorobenzene	180	11.457	11.449	(0.993)	184277	5.80657	5.807
*	27	Naphthalene-d8	136	11.542	11.534	(1.000)	397807	4.00000	
	28	Naphthalene	128	11.581	11.581	(1.003)	509298	5.20230	5.202
	29	4-Chloroaniline	127	11.712	11.712	(1.015)	413584	10.2440	10.24
	30	Hexachlorobutadiene	225	11.951	11.951	(1.035)	98517	6.25662	6.257
	31	4-Chloro-3-methylphenol	107	12.694	12.686	(1.100)	324480	11.7151	11.72
	32	2-Methylnaphthalene	142	12.989	12.981	(1.125)	374085	5.20926	5.209
	33	Hexachlorocyclopentadiene	237	13.461	13.453	(0.887)	74506	4.85340	4.853

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
34	2,4,6-Trichlorophenol	196	13.615	13.607	(0.897)	189477	11.1784	11.18
35	2,4,5-Trichlorophenol	196	13.693	13.693	(0.902)	208457	10.6557	10.66
$ 36	2-Fluorobiphenyl	172	13.770	13.770	(0.907)	370856	5.43141	5.431
37	2-Chloronaphthalene	162	13.987	13.979	(0.921)	318964	5.49117	5.491
38	2-Nitroaniline	65	14.242	14.234	(0.938)	223119	14.6103	14.61
39	Dimethylphthalate	163	14.676	14.668	(0.967)	333207	5.81805	5.818
40	Acenaphthylene	152	14.861	14.853	(0.979)	535220	6.04294	6.043
41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	157394	12.1776	12.18
* 42	Acenaphthene-d10	164	15.179	15.171	(1.000)	203080	4.00000	
43	3-Nitroaniline	138	15.101	15.093	(0.995)	167806	10.6820	10.68
44	Acenaphthene	153	15.240	15.240	(1.004)	311698	5.67405	5.674
45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	138101	12.2356	12.24
46	Dibenzofuran	168	15.573	15.565	(1.026)	435363	5.28487	5.285
47	4-Nitrophenol	109	15.434	15.433	(1.017)	87575	11.3485	11.35
48	2,4-Dinitrotoluene	165	15.619	15.619	(1.029)	211065	11.9022	11.90
50	Diethylphthalate	149	16.137	16.137	(1.063)	489394	6.28685	6.287
49	Fluorene	166	16.284	16.284	(1.073)	463440	5.28824	5.288
51	4-Chlorophenyl-phenylether	204	16.276	16.268	(1.072)	206059	4.80272	4.803
52	4-Nitroaniline	138	16.369	16.361	(1.078)	198876	10.2688	10.27
53	4,6-Dinitro-2-methylphenol	198	16.469	16.461	(0.904)	246779	17.0608	17.06
54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	300387	5.27615	5.276
$ 55	2,4,6-Tribromophenol	330	16.824	16.816	(1.108)	64867	6.58268	6.583
56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.948)	109553	5.08170	5.082
57	Hexachlorobenzene	284	17.596	17.595	(0.966)	119297	5.04257	5.043
58	Pentachlorophenol	266	17.960	17.952	(0.986)	41990	4.01937	4.019
* 59	Phenanthrene-d10	188	18.223	18.215	(1.000)	331785	4.00000	
60	Phenanthrene	178	18.269	18.269	(1.003)	461415	5.33389	5.334
61	Anthracene	178	18.362	18.362	(1.008)	472021	5.71572	5.716
62	Carbazole	167	18.695	18.687	(1.026)	439046	5.49940	5.499
63	Di-n-butylphthalate	149	19.492	19.491	(1.070)	588502	6.19787	6.198
64	Fluoranthene	202	20.660	20.652	(0.888)	486863	5.93559	5.936
65	Pyrene	202	21.085	21.077	(0.906)	502003	5.82088	5.821
$ 66	Terphenyl-d14	244	21.372	21.364	(0.918)	349702	5.71868	5.719
67	Butylbenzylphthalate	149	22.293	22.285	(0.958)	240808	7.21125	7.211
68	Benzo(a)anthracene	228	23.253	23.245	(0.999)	442776	5.73765	5.738
* 69	Chrysene-d12	240	23.276	23.276	(1.000)	254746	4.00000	
70	3,3'-Dichlorobenzidine	252	23.207	23.199	(0.997)	444239	18.8048	18.80
71	Chrysene	228	23.323	23.315	(1.002)	440697	6.04573	6.046
72	bis(2-Ethylhexyl)phthalate	149	23.323	23.315	(0.960)	364420	6.55804	6.558
* 134	Di-n-octylphthalate-d4	153	24.306	24.298	(1.000)	500355	4.00000	
73	Di-n-octylphthalate	149	24.314	24.314	(1.000)	634580	5.28348	5.283
74	Benzo(b)fluoranthene	252	25.134	25.134	(0.970)	434875	5.05934	5.059
75	Benzo(k)fluoranthene	252	25.181	25.173	(0.972)	500524	5.72127	5.721
76	Benzo(a)pyrene	252	25.792	25.785	(0.996)	413100	5.78133	5.781
* 77	Perylene-d12	264	25.909	25.901	(1.000)	273505	4.00000	
78	Indeno(1,2,3-cd)pyrene	276	28.582	28.574	(1.103)	420612	5.17820	5.178
79	Dibenzo(a,h)anthracene	278	28.590	28.582	(1.103)	358468	5.19330	5.193
80	Benzo(g,h,i)perylene	276	29.367	29.351	(1.133)	305556	4.49042	4.490
90	N-Nitrosodimethylamine	74	Compound Not Detected.					
91	Aniline	93	8.495	8.487	(0.939)	489503	10.5728	10.57
93	Benzidine	184	20.892	20.884	(0.898)	277239	8.56853	8.569
103	Pyridine	79	4.633	4.633	(0.512)	418624	5.64923	5.649
105	1-methylnaphthalene	142	13.213	13.205	(1.145)	365824	5.30192	5.302
111	Azobenzene (1,2-DP-Hydrazine)	77	16.600	16.600	(1.094)	516841	6.85331	6.853

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.181	25.134	(0.972)	893449	10.7515	10.75
120 2,3,4,6-Tetrachlorophenol	232	15.913	15.905	(1.048)	59492	4.02519	4.025

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010634.D
Lab Smp Id: SLA0068-CCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	105694	-7.30
27 Naphthalene-d8	420653	210327	841306	397807	-5.43
42 Acenaphthene-d10	216802	108401	433604	203080	-6.33
59 Phenanthrene-d10	366121	183061	732242	331785	-9.38
69 Chrysene-d12	276883	138442	553766	254746	-8.00
134 Di-n-octylphthala	540641	270321	1081282	500355	-7.45
77 Perylene-d12	308305	154153	616610	273505	-11.29

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.05	0.09
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.07
42 Acenaphthene-d10	15.17	14.67	15.67	15.18	0.05
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.04
69 Chrysene-d12	23.28	22.78	23.78	23.28	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.31	0.03
77 Perylene-d12	25.90	25.40	26.40	25.91	0.03

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010634.D

Lab ID: SLA0068-CCV1
nt14.i, 20230106.b\ABN.m,   07-JAN-2023 07:27

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND

NONE

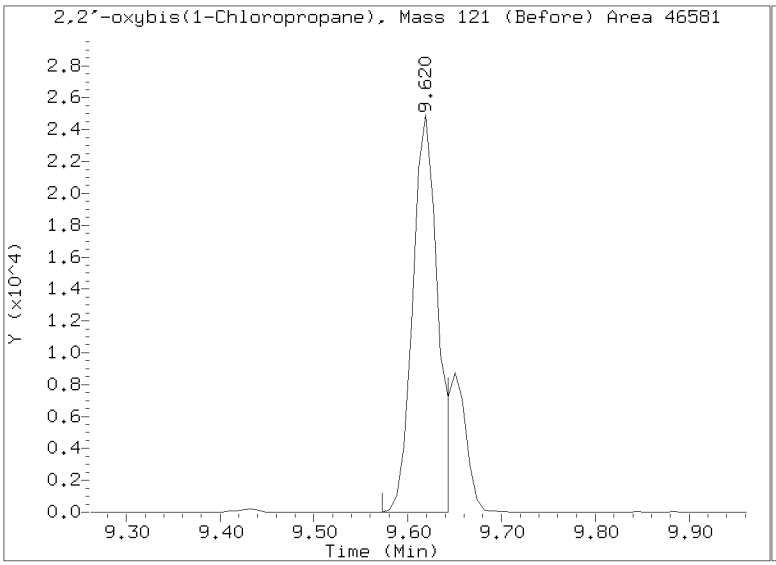
RRT check based on Ccal File: NT1423010619.D

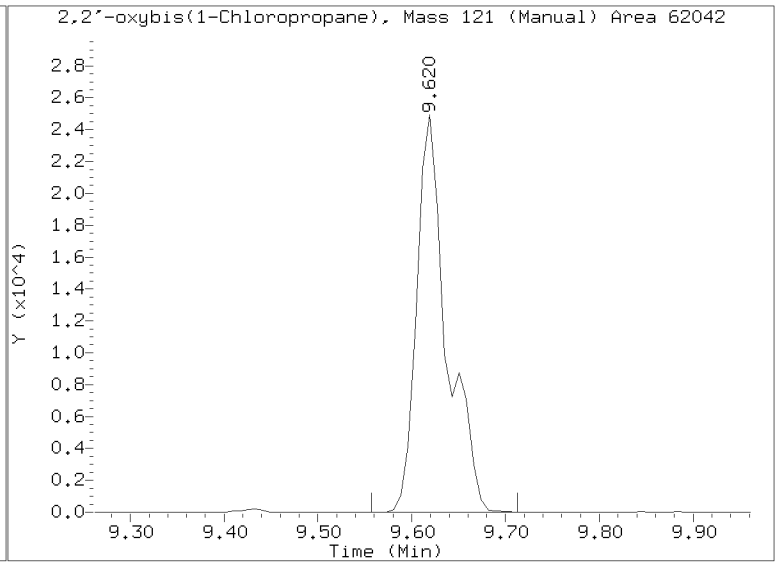
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010634.D
Injection Date: 07-JAN-2023 07:27
Lab ID:SLA0068-CCV1 Client ID:
Report Date: 01/12/2023 08:18





LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010603.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV1	Injection Time:	12:48
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Phenol	A	0.50000	0.4	1.7995200	1.5322990		-14.9	+/-50
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.2007360		-3.1	+/-50
2-Chlorophenol	A	0.50000	0.5	1.4607190	1.3313860		-8.9	+/-50
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.4410590		-7.0	+/-50
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.3697200		-6.7	+/-50
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.3782770		-4.2	+/-50
Benzyl Alcohol	A	0.50000	0.4	0.8011083	0.6909475		-13.8	+/-50
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.4240739		1.6	+/-50
2-Methylphenol	A	0.50000	0.4	1.3076140	1.1231870		-14.1	+/-50
Hexachloroethane	A	0.50000	0.5	0.5396966	0.5650896		4.7	+/-50
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.8369506		5.1	+/-50
4-Methylphenol	A	0.50000	0.4	1.3794240	1.1088120		-19.6	+/-50
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3271452		-2.5	+/-50
Isophorone	A	0.50000	0.5	0.4275424	0.4040542		-5.5	+/-50
2-Nitrophenol	A	0.50000	0.4	0.2064997	0.1445365		-29.5	+/-50
2,4-Dimethylphenol	A	1.0000	0.8	0.3501131	0.2786120		-20.4	+/-50
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3135082		-5.7	+/-50
2,4-Dichlorophenol	A	1.0000	0.7	0.2951237	0.1989678		-32.6	+/-50
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3412618		6.9	+/-50
Naphthalene	A	0.50000	0.5	0.9843833	0.9074691		-7.8	+/-50
Benzoic acid	A	2.0000	0.3	0.1508906	0.0340925		-84.0	+/-50
4-Chloroaniline	A	1.0000	0.8	0.4059568	0.3162822		-22.1	+/-50
Hexachlorobutadiene	A	0.50000	0.5	0.1583286	0.1482439		-6.4	+/-50
4-Chloro-3-Methylphenol	A	1.0000	0.7	0.2785027	0.1990910		-28.5	+/-50
2-Methylnaphthalene	A	0.50000	0.4	0.7220739	0.6175404		-14.5	+/-50
Hexachlorocyclopentadiene	A	1.0000	0.6	0.3023695	0.1702069		-43.7	+/-50
2,4,6-Trichlorophenol	A	1.0000	0.7	0.3338641	0.2284248		-31.6	+/-50
2,4,5-Trichlorophenol	A	1.0000	0.5	0.3853234	0.2028786		-47.3	+/-50
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.0376830		-9.3	+/-50
2-Nitroaniline	A	1.0000	1.0	0.3007956	0.2865503		-4.7	+/-50
Acenaphthylene	A	0.50000	0.5	1.7445240	1.6170110		-7.3	+/-50
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.0909650		-3.3	+/-50
2,6-Dinitrotoluene	A	1.0000	0.8	0.2545771	0.2155461		-15.3	+/-50
Acenaphthene	A	0.50000	0.5	1.0820160	1.0165960		-6.0	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010603.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV1	Injection Time:	12:48
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2543273		-17.8	+/-50
2,4-Dinitrophenol	A	2.0000	0.3	0.1831718	0.0278422		-87.1	+/-50
Dibenzofuran	A	0.50000	0.5	1.6225950	1.4844250		-8.5	+/-50
4-Nitrophenol	A	1.0000	0.6	0.1384031	0.0859018		-42.0	+/-50
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2751759		-21.2	+/-50
Fluorene	A	0.50000	0.5	1.7261350	1.5959780		-7.5	+/-50
4-Chlorophenylphenyl ether	A	0.50000	0.4	0.8450792	0.7137103		-15.5	+/-50
Diethyl phthalate	A	0.50000	0.5	1.5332690	1.6410270		7.0	+/-50
4-Nitroaniline	A	1.0000	0.9	0.3413732	0.3337237		-10.5	+/-50
4,6-Dinitro-2-methylphenol	A	2.0000	0.8	0.1530278	0.0645981		-61.6	+/-50
N-Nitrosodiphenylamine	A	0.50000	0.5	0.6863845	0.6195208		-9.7	+/-50
4-Bromophenyl phenyl ether	A	0.50000	0.4	0.2599074	0.2233488		-14.1	+/-50
Hexachlorobenzene	A	0.50000	0.4	0.2852204	0.2528640		-11.3	+/-50
Pentachlorophenol	A	1.0000	0.1	0.1128364	0.0138048		-88.8	+/-50
Phenanthrene	A	0.50000	0.5	1.0429190	0.9555440		-8.4	+/-50
Anthracene	A	0.50000	0.5	0.9956202	0.9148149		-8.1	+/-50
Carbazole	A	0.50000	0.5	0.9624945	0.8893316		-7.6	+/-50
Di-n-Butylphthalate	A	0.50000	0.5	1.0394700	1.0442470		-4.1	+/-50
Fluoranthene	A	0.50000	0.5	1.2879410	1.2532660		-2.7	+/-50
Pyrene	A	0.50000	0.5	1.3541610	1.3149750		-2.9	+/-50
Butylbenzylphthalate	A	0.50000	0.6	0.4650792	0.5775167		12.9	+/-50
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.1313630		-6.6	+/-50
3,3'-Dichlorobenzidine	A	1.5000	1.5	0.3709370	0.3827064		3.2	+/-50
Chrysene	A	0.50000	0.5	1.1445730	1.0719170		-6.3	+/-50
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4294294		-3.3	+/-50
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.8933345		-7.0	+/-50
Benzofluoranthenes, Total	A	1.0000	0.9	1.2153330	1.0773820		-11.4	+/-50
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.0103120		-3.3	+/-50
Indeno(1,2,3-cd)pyrene	A	0.50000	0.5	1.1879490	1.1116820		-6.4	+/-50
Dibenzo(a,h)anthracene	A	0.50000	0.5	1.0094890	0.9116889		-9.7	+/-50
Benzo(g,h,i)perylene	A	0.50000	0.5	0.9951726	0.9213717		-7.4	+/-50
1-Methylnaphthalene	A	0.50000	0.4	0.6937882	0.6058738		-12.7	+/-50
2-Fluorophenol	A	0.75000	0.684	1.2814900	1.1683830		-8.8	+/-50
Phenol-d5	A	0.75000	0.647	1.5836890	1.3657920		-13.8	+/-50

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010603.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV1	Injection Time:	12:48
Sequence Name:	ABN 0.2		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.697	1.3300510	1.2355660		-7.1	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.468	0.9090592	0.8510815		-6.4	+/-50
Nitrobenzene-d5	A	0.50000	0.500	0.3377760	0.3378525		0.02	+/-50
2-Fluorobiphenyl	A	0.50000	0.457	1.3448860	1.2293580		-8.6	+/-50
2,4,6-Tribromophenol	A	0.75000	0.519	0.1844845	0.1298951		-30.8	+/-50
p-Terphenyl-d14	A	0.50000	0.471	0.9601842	0.9053521		-5.7	+/-50

* Values outside of QC limits

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

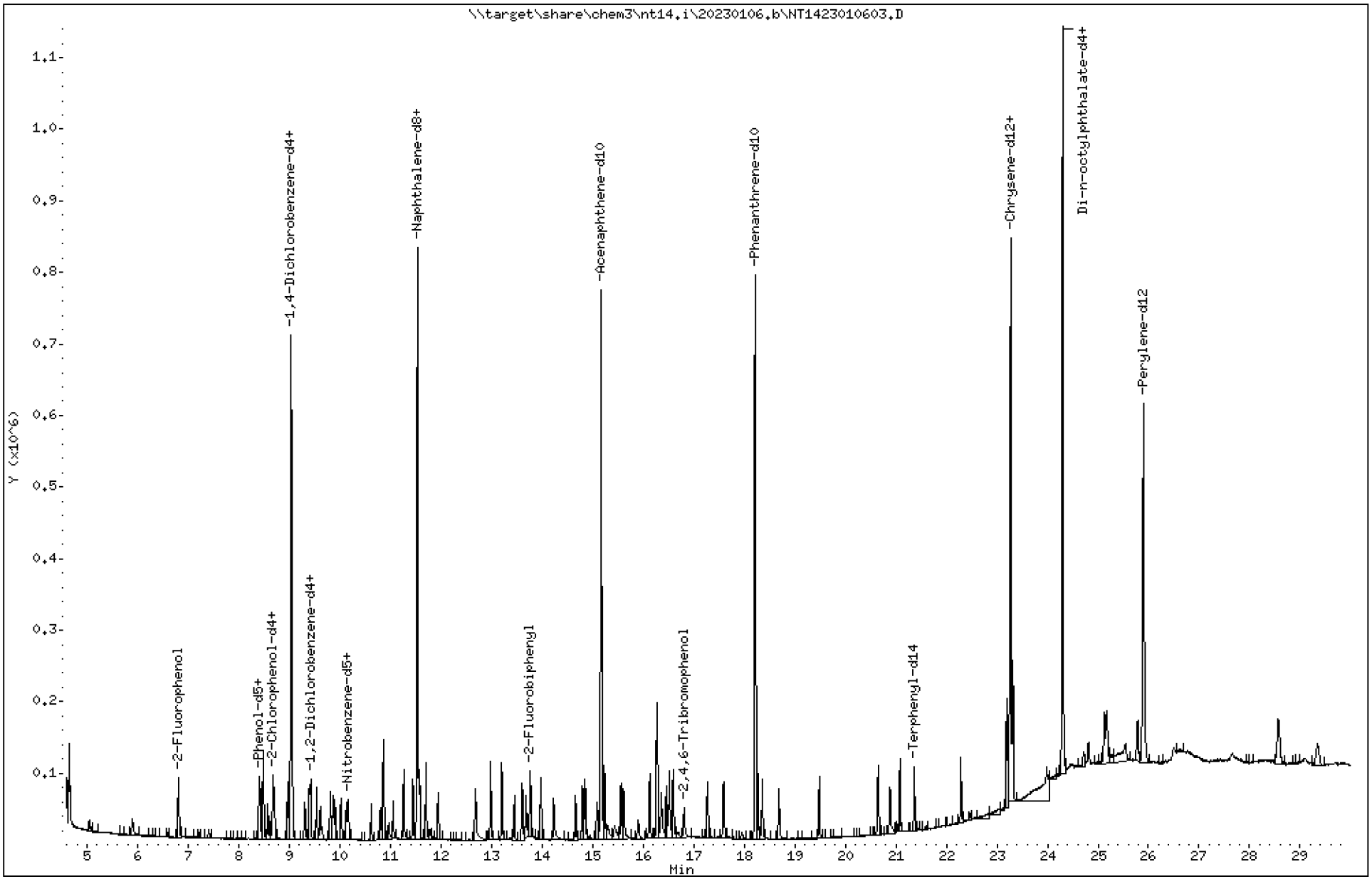
Instrument: nt14.i

Sample Info: SLA0068-LCV1

Operator: VTS

Column phase: ZB-5msi

Column diameter: 0.25



22L0246 CLPLIKE (Rev0) - Page 3541 of 5449

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

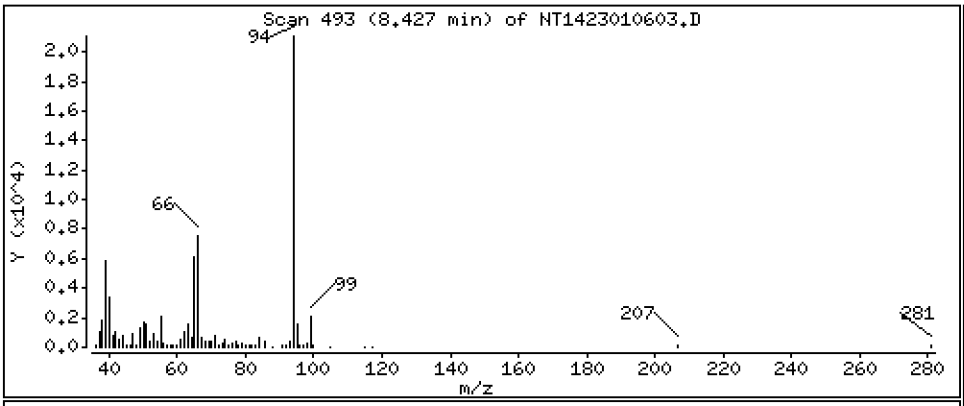
Operator: VTS

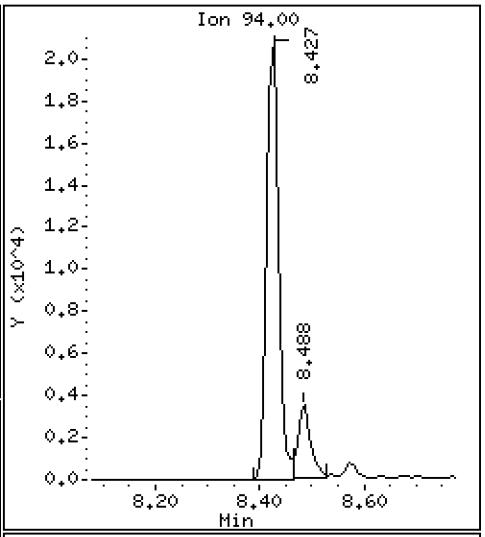
Column phase: ZB-5msi

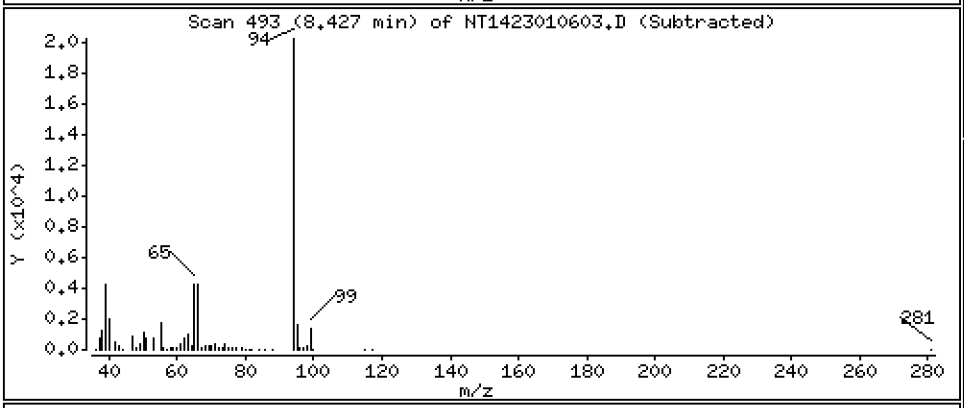
Column diameter: 0.25

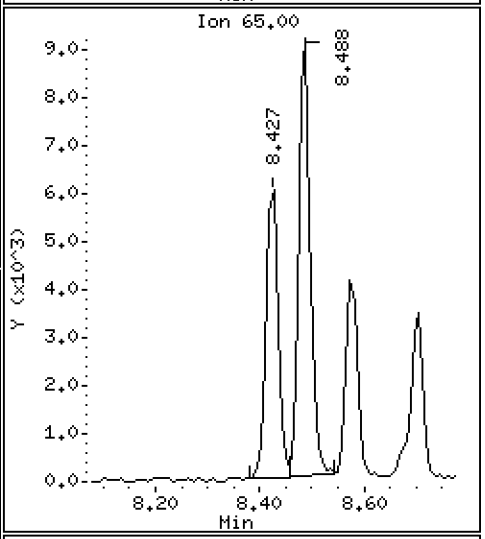
3 Phenol

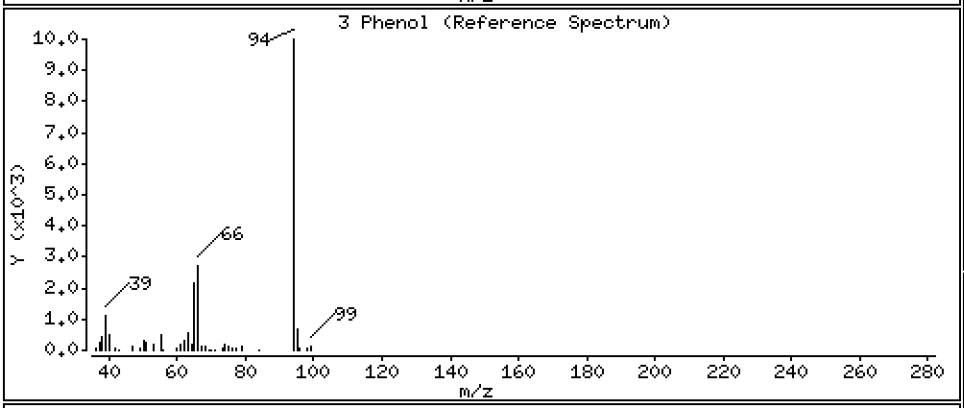
Concentration: 0.4258 ug/mL

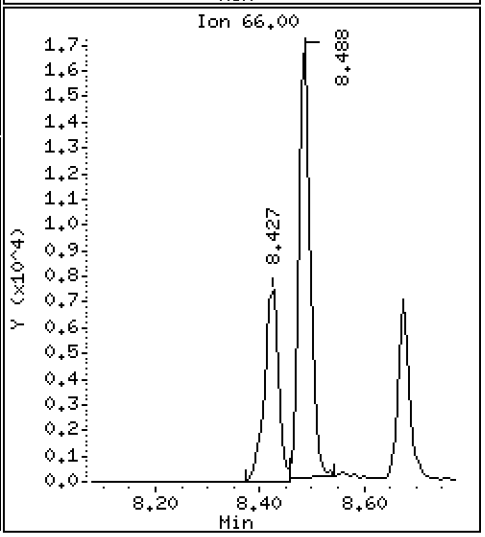


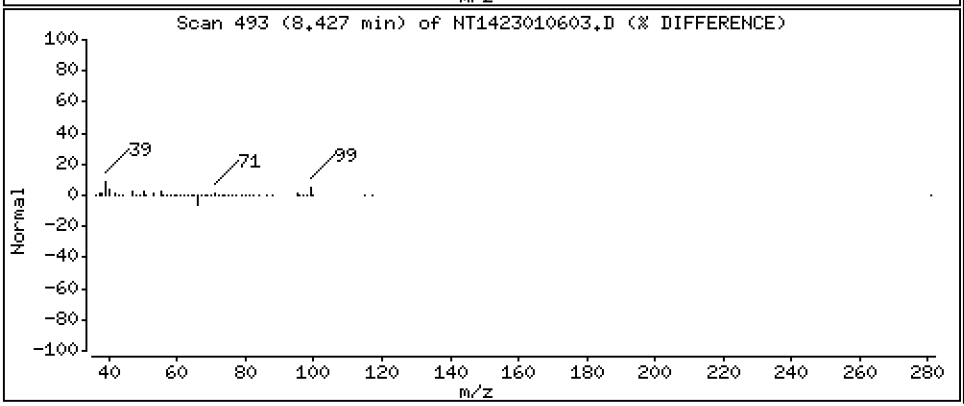












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

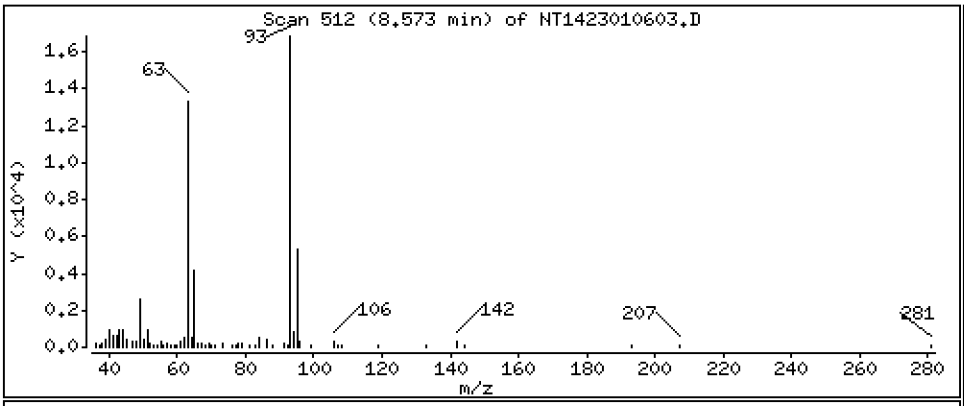
Operator: VTS

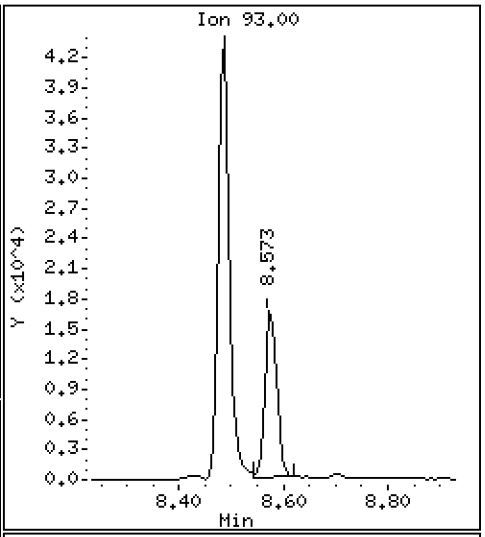
Column phase: ZB-5msi

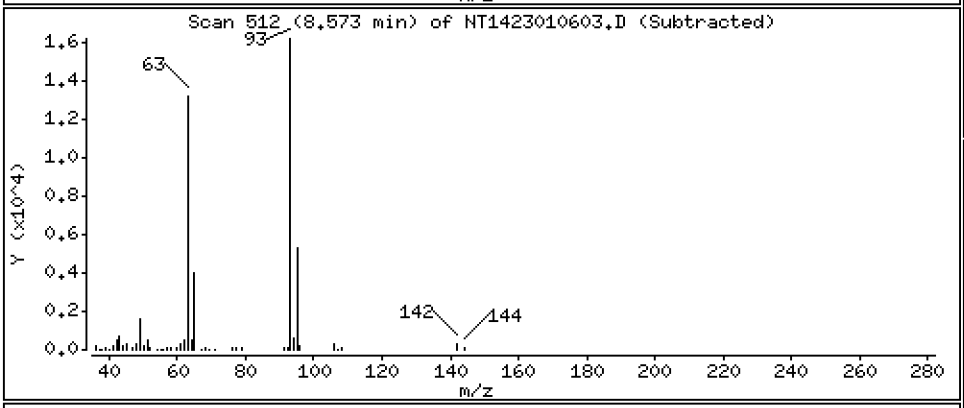
Column diameter: 0.25

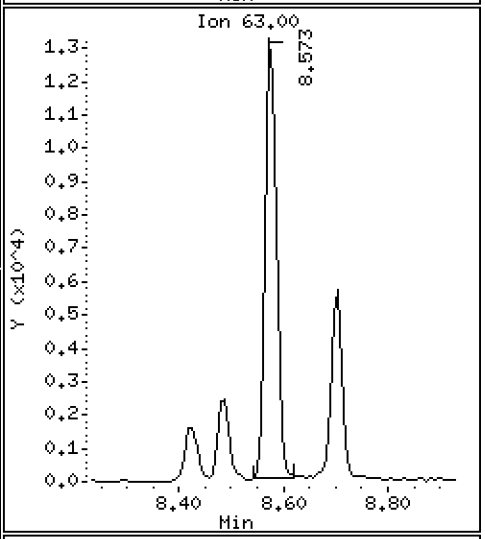
4 Bis(2-Chloroethyl)ether

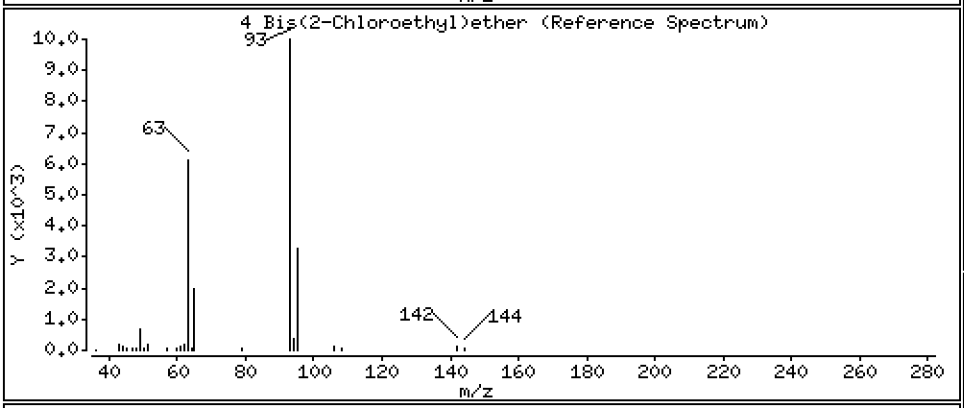
Concentration: 0.4843 ug/mL

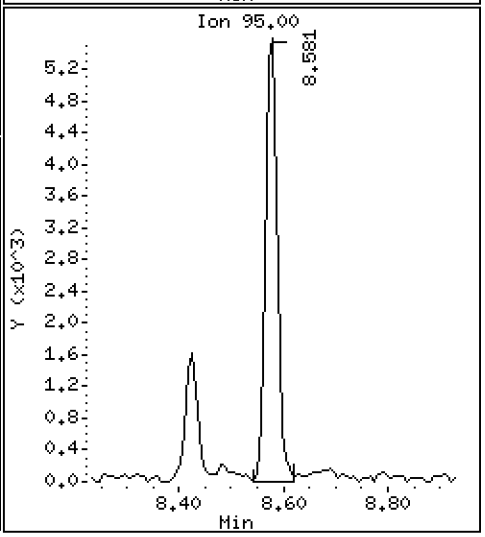


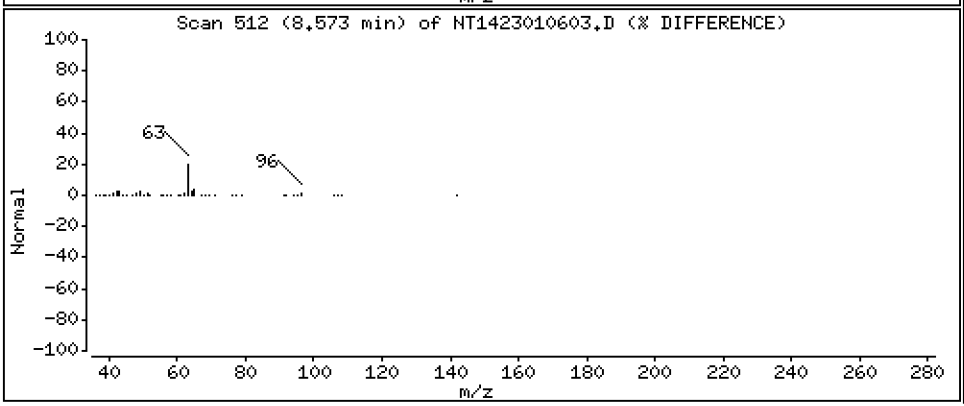












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

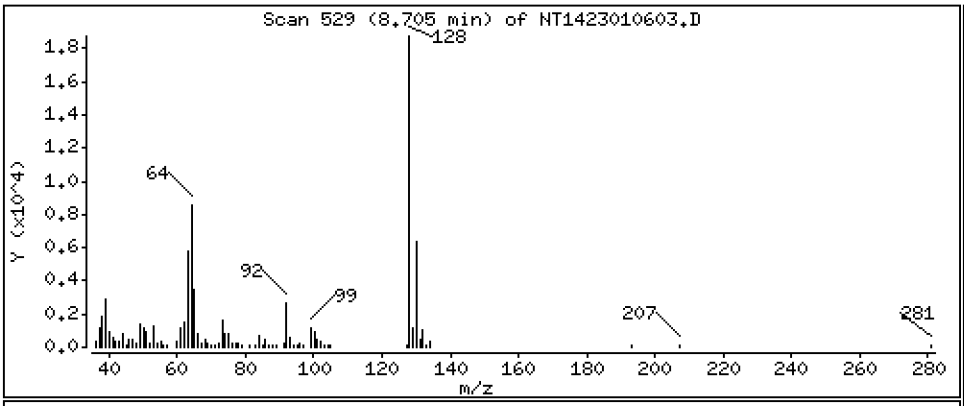
Operator: VTS

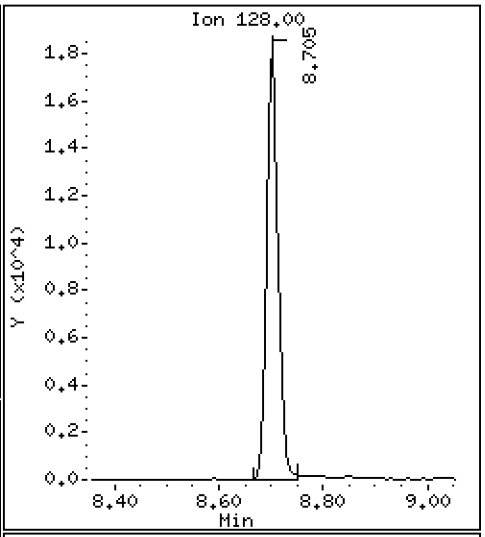
Column phase: ZB-5msi

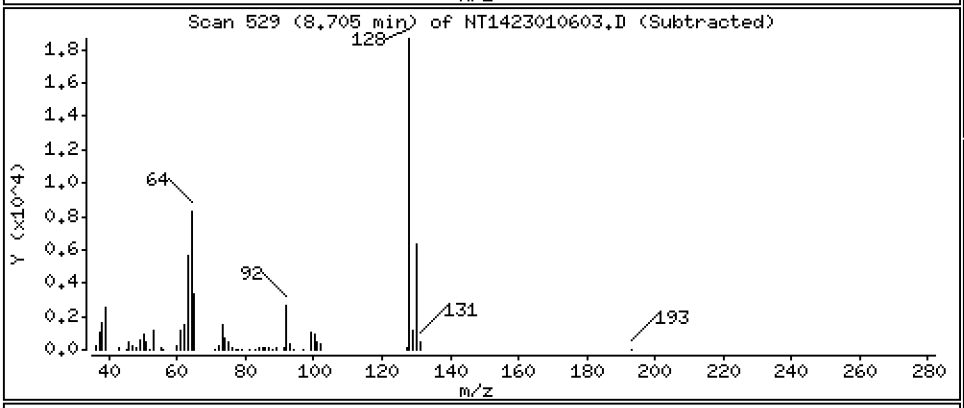
Column diameter: 0.25

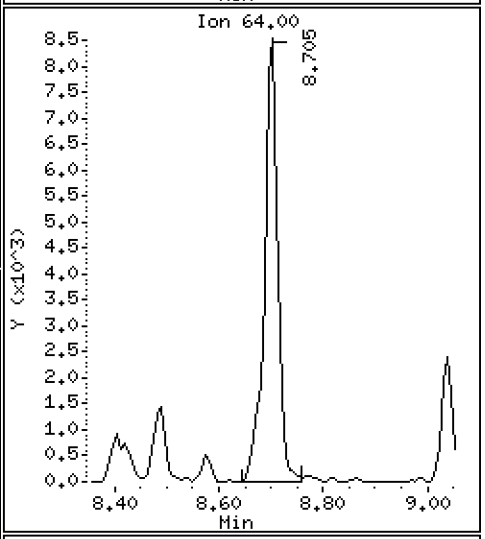
6 2-Chlorophenol

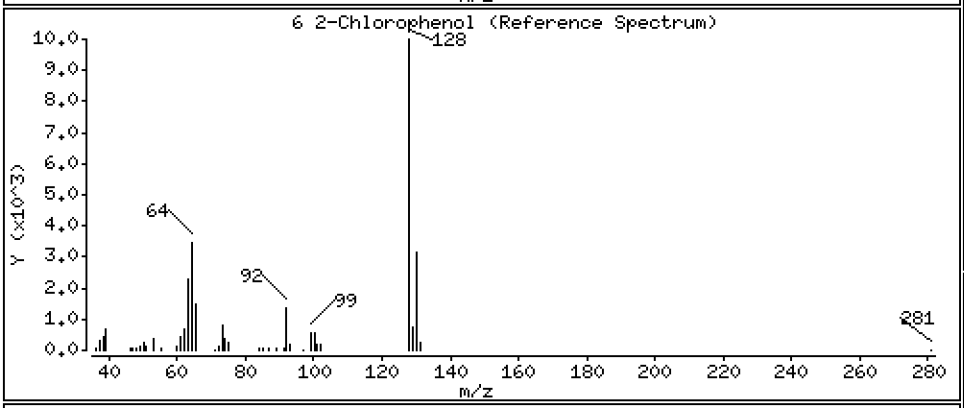
Concentration: 0.4557 ug/mL

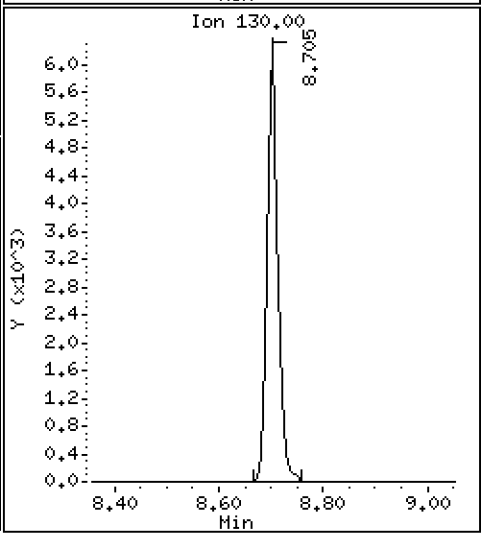


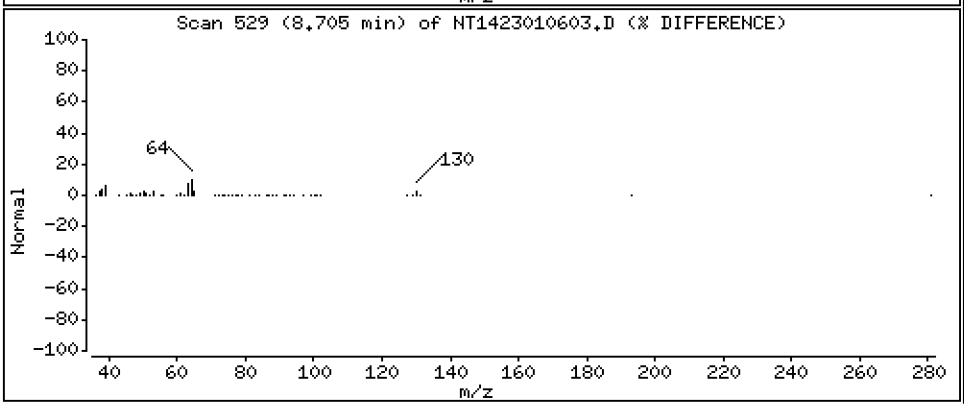












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

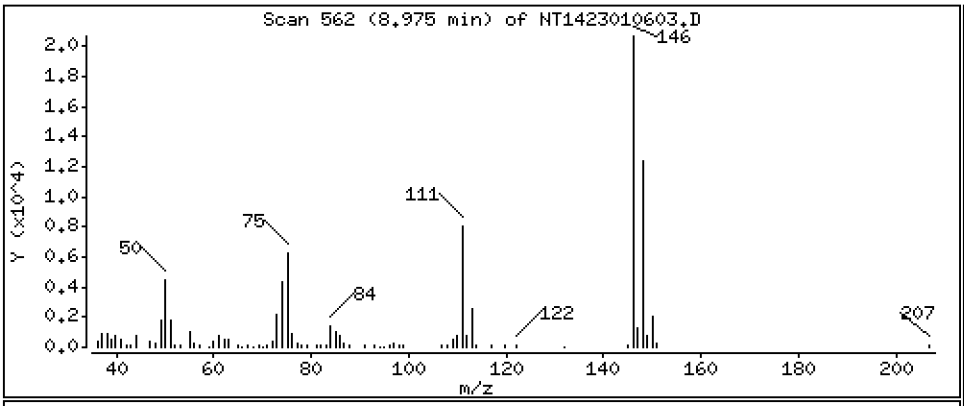
Operator: VTS

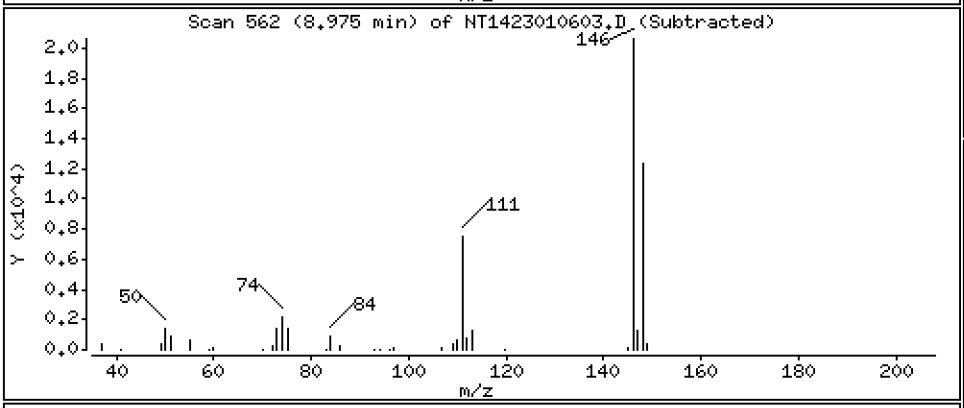
Column phase: ZB-5msi

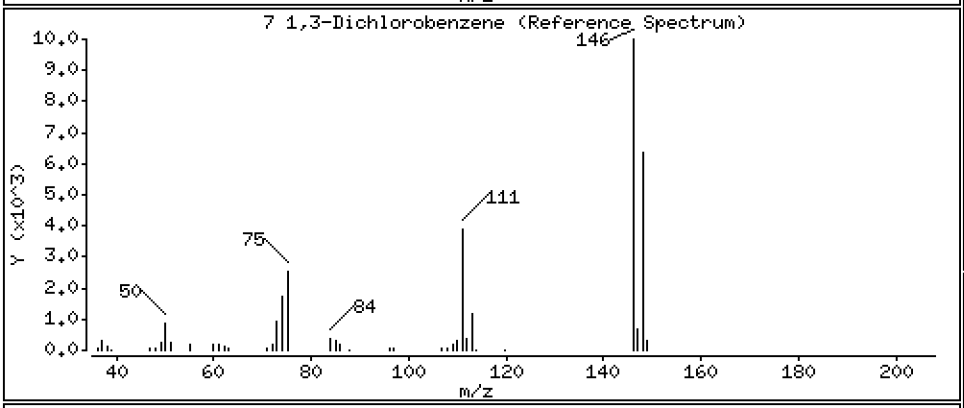
Column diameter: 0.25

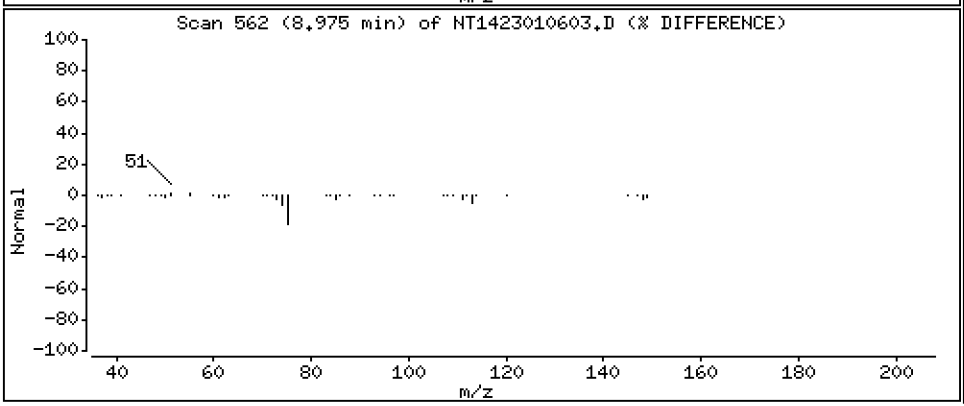
7 1,3-Dichlorobenzene

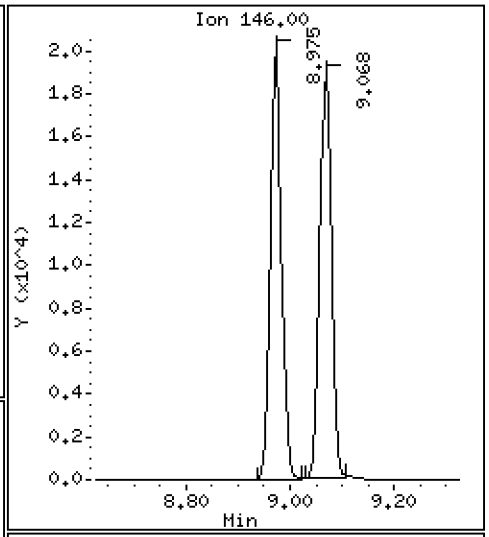
Concentration: 0.4652 ug/mL

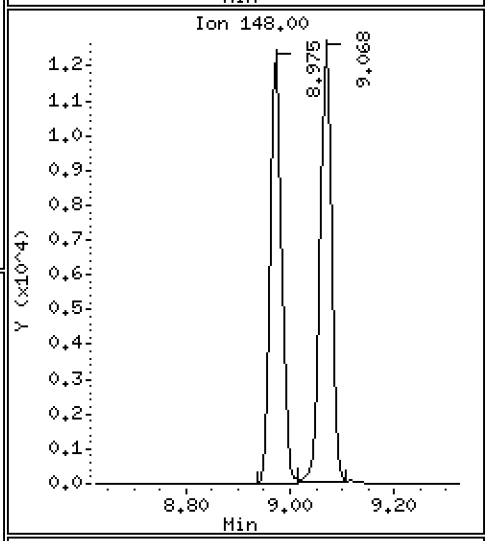


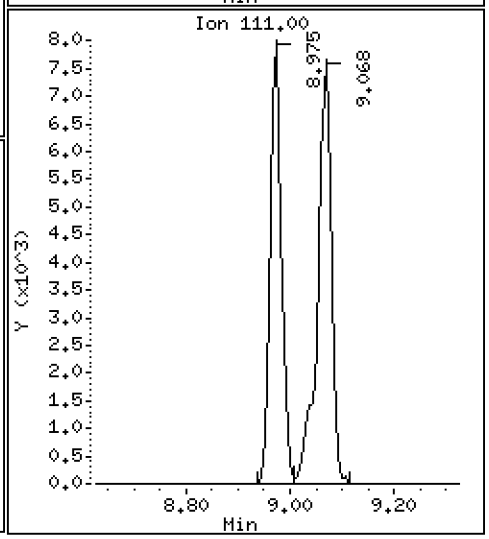












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

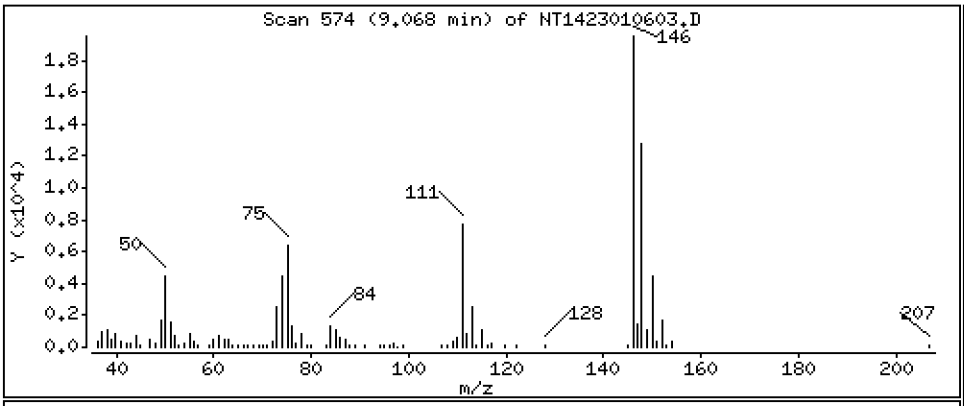
Operator: VTS

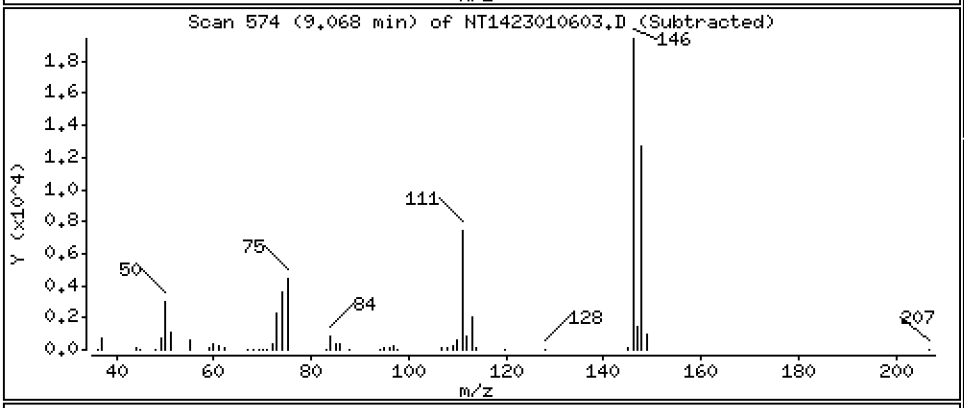
Column phase: ZB-5msi

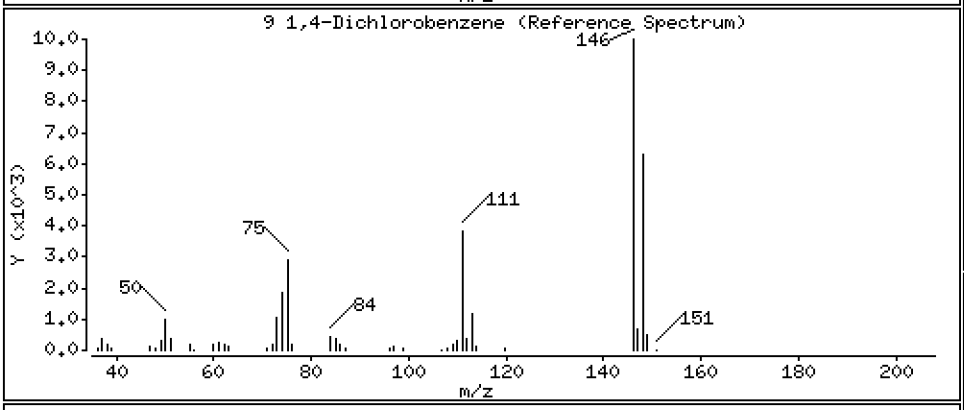
Column diameter: 0.25

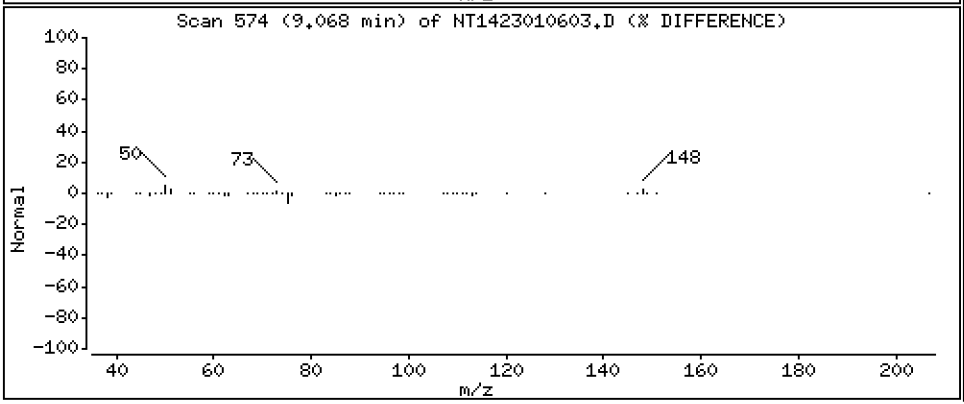
9 1,4-Dichlorobenzene

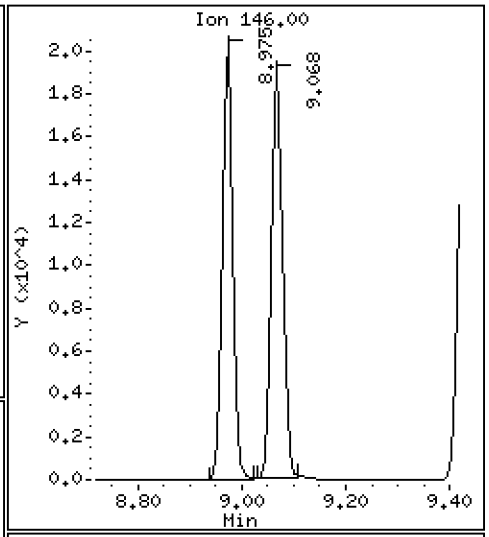
Concentration: 0.4667 ug/mL

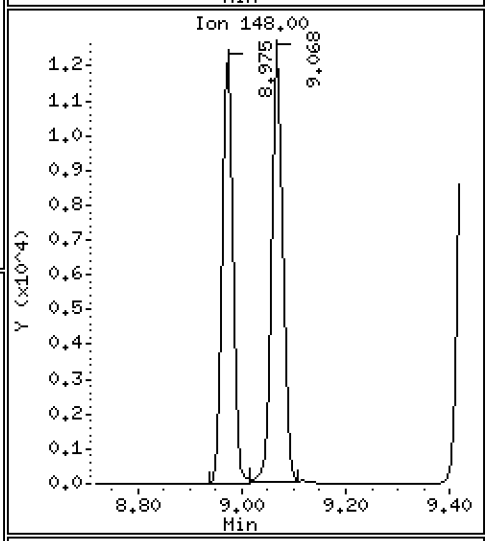


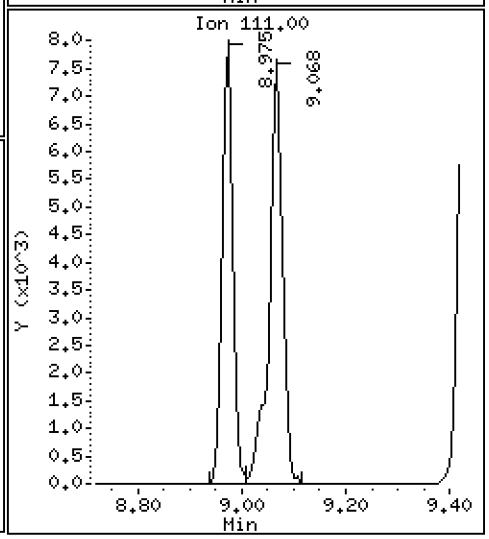












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

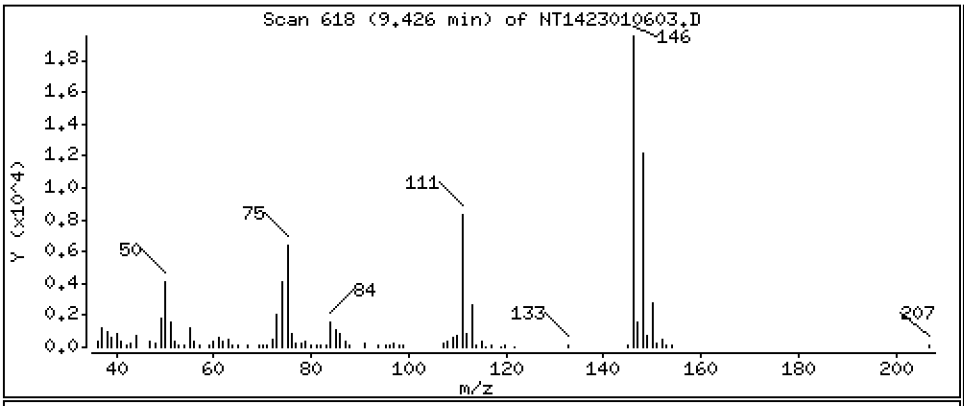
Operator: VTS

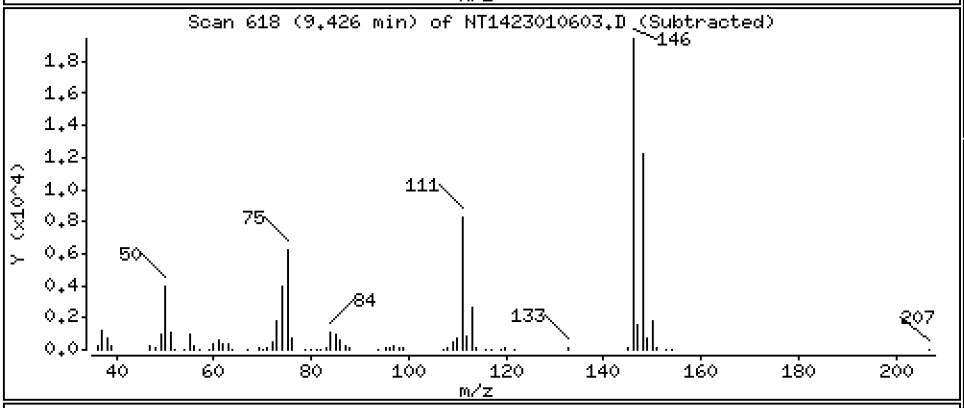
Column phase: ZB-5msi

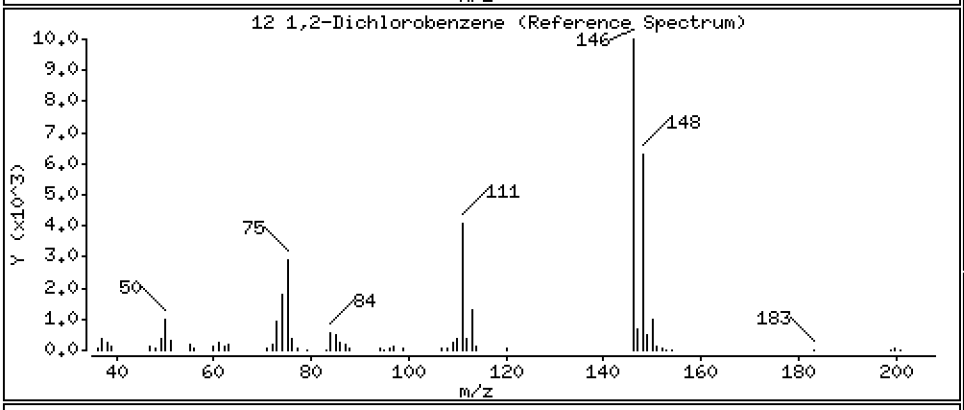
Column diameter: 0.25

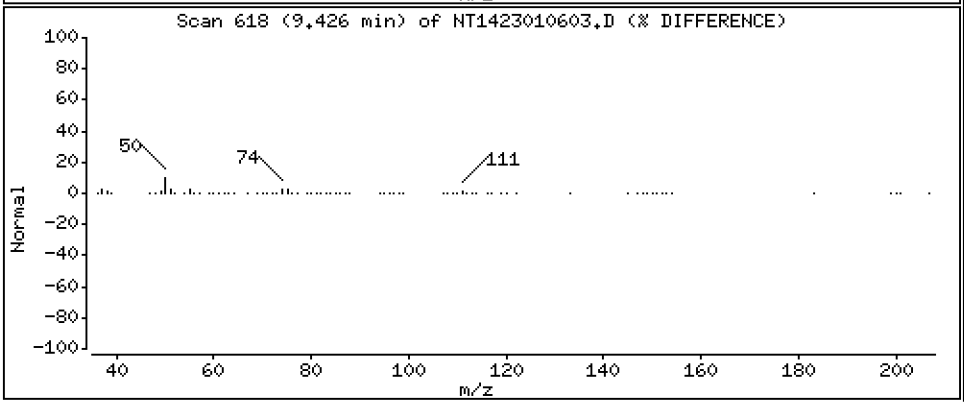
12 1,2-Dichlorobenzene

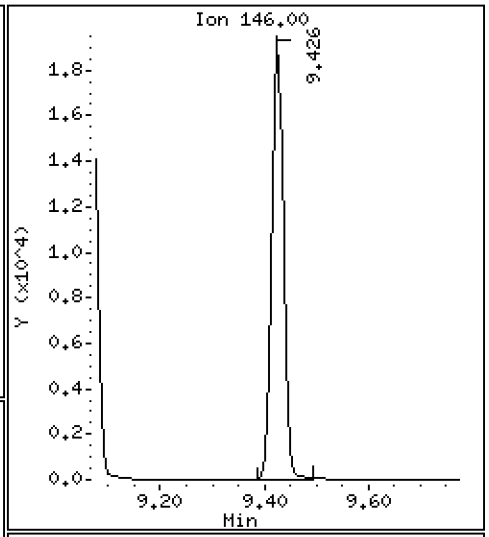
Concentration: 0.4789 ug/mL

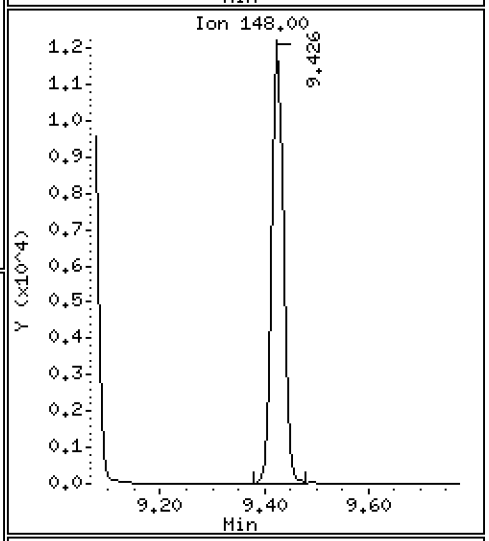


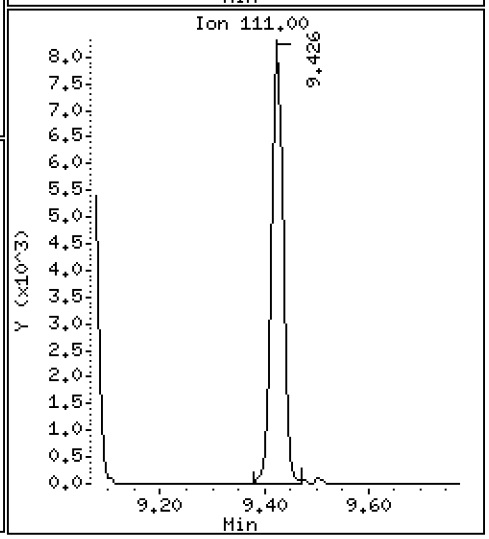












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

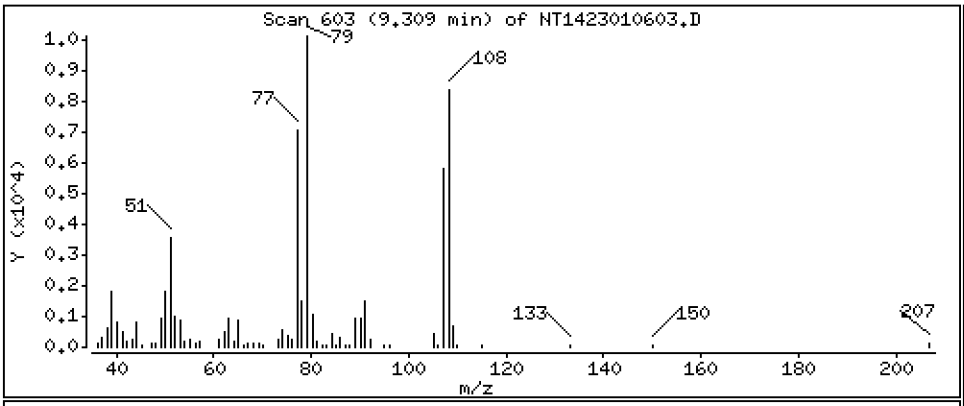
Operator: VTS

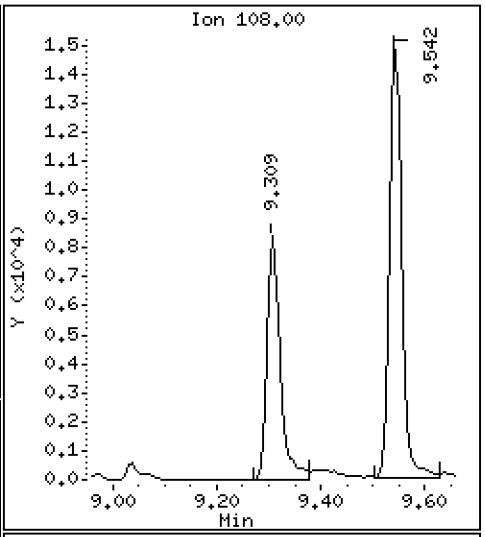
Column phase: ZB-5msi

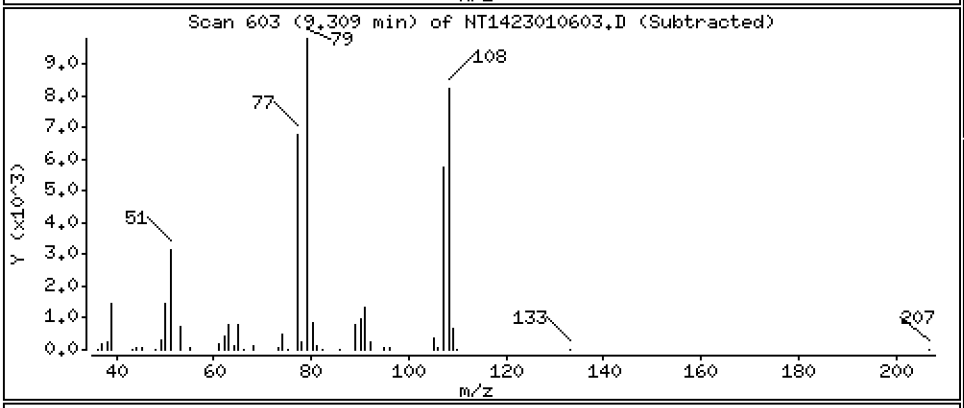
Column diameter: 0.25

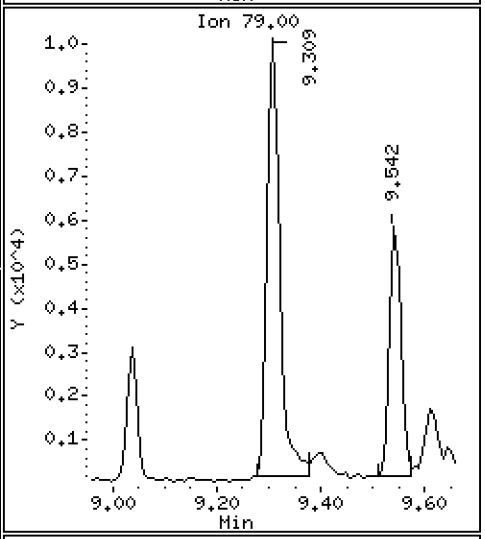
11 Benzyl alcohol

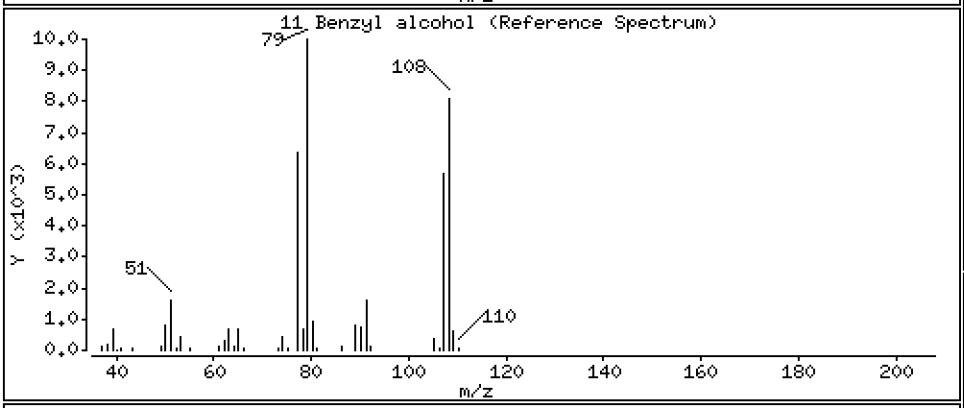
Concentration: 0.4312 ug/mL

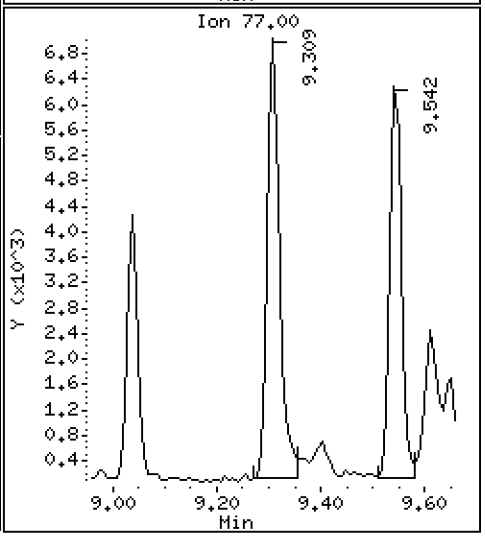


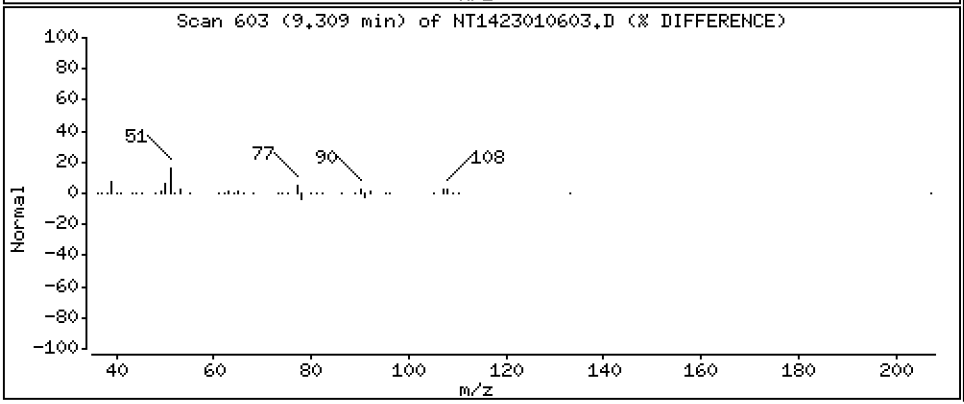












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

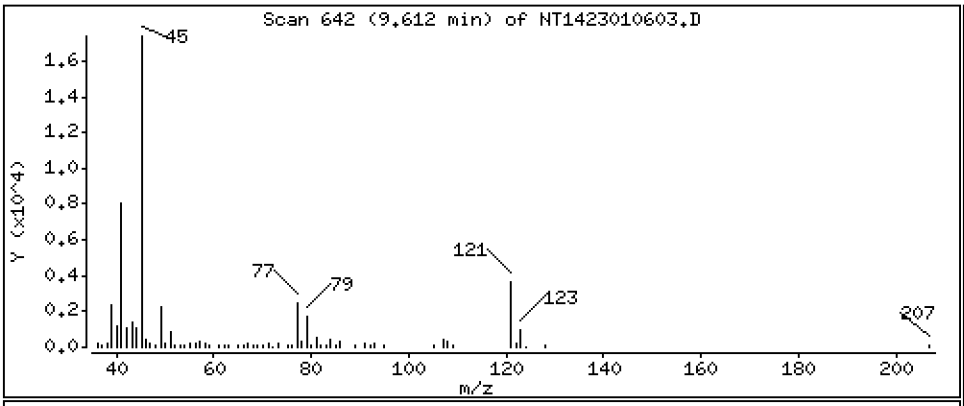
Operator: VTS

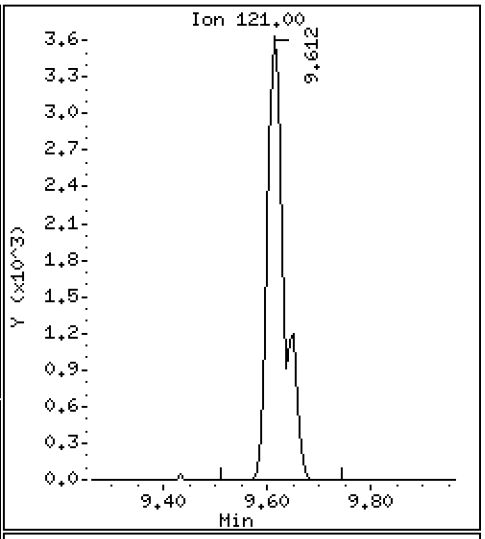
Column phase: ZB-5msi

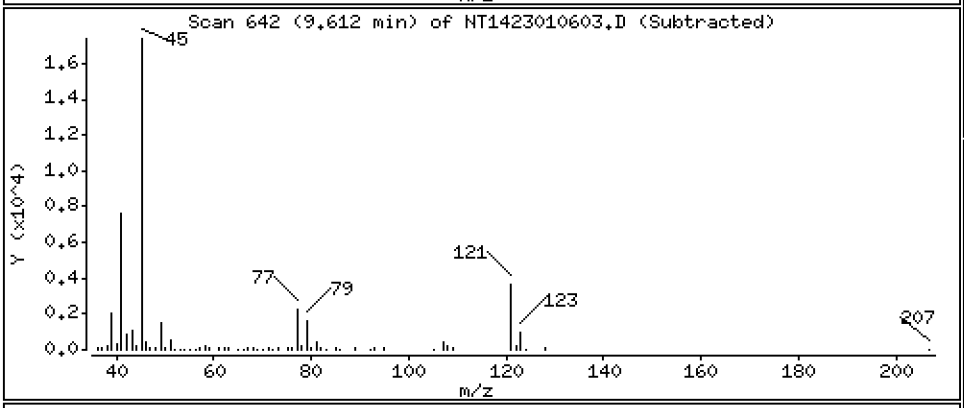
Column diameter: 0.25

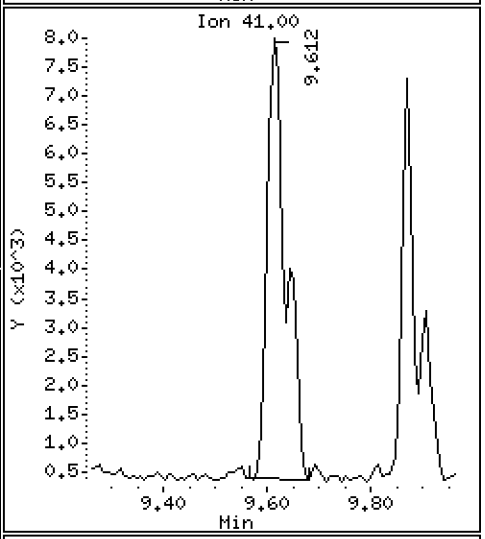
14 2,2'-oxybis(1-Chloropropane)

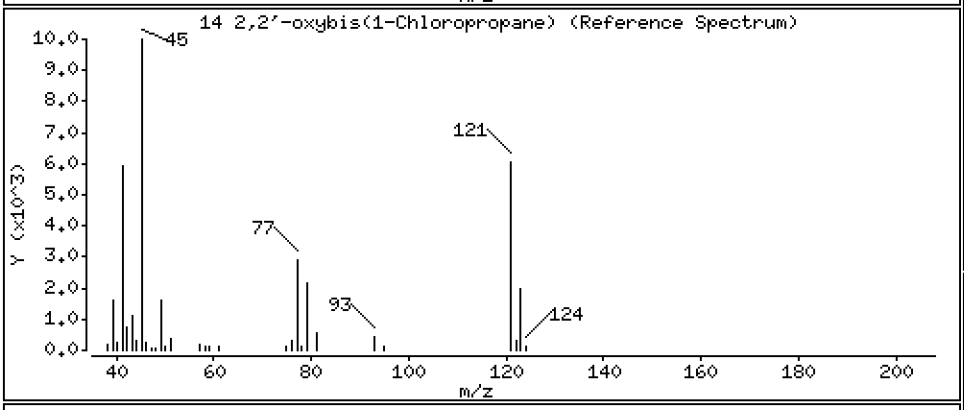
Concentration: 0.5082 ug/mL

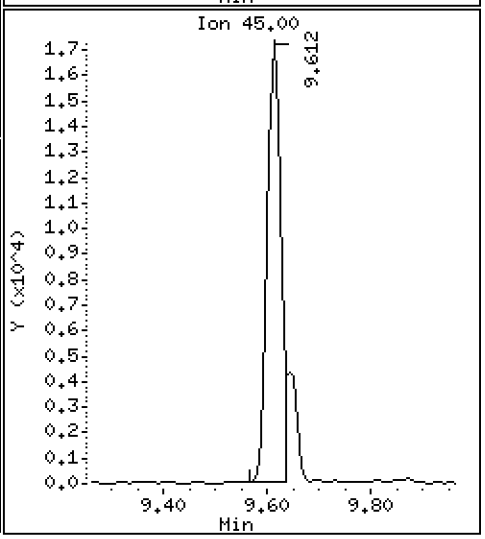


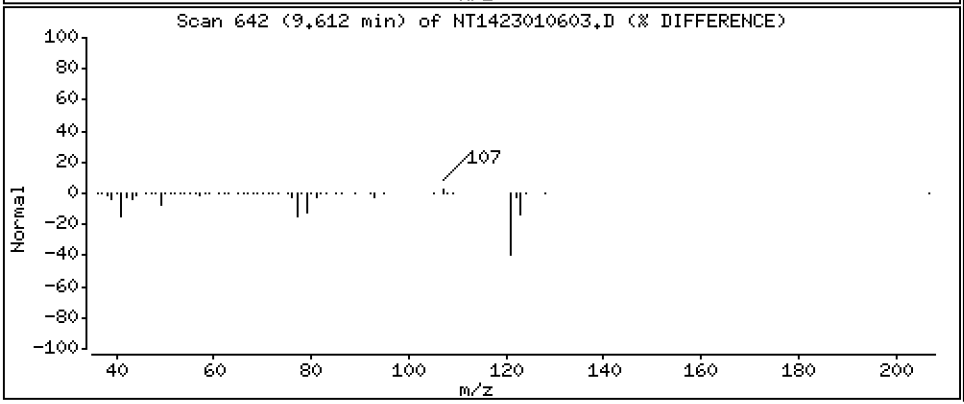












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

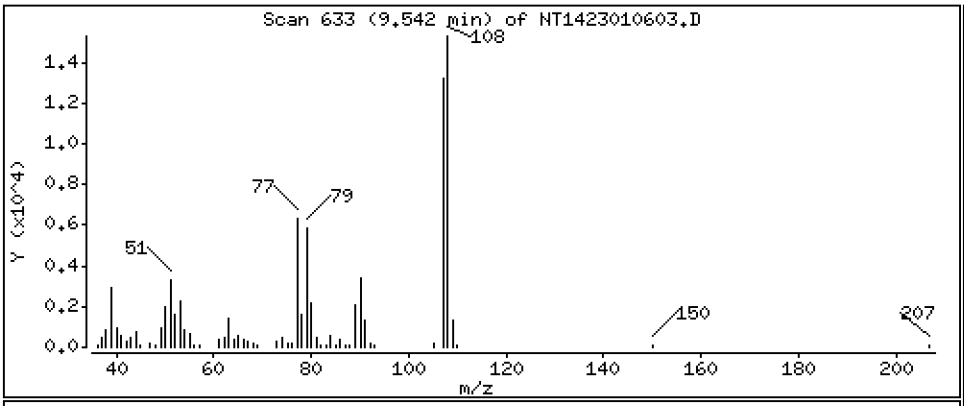
Operator: VTS

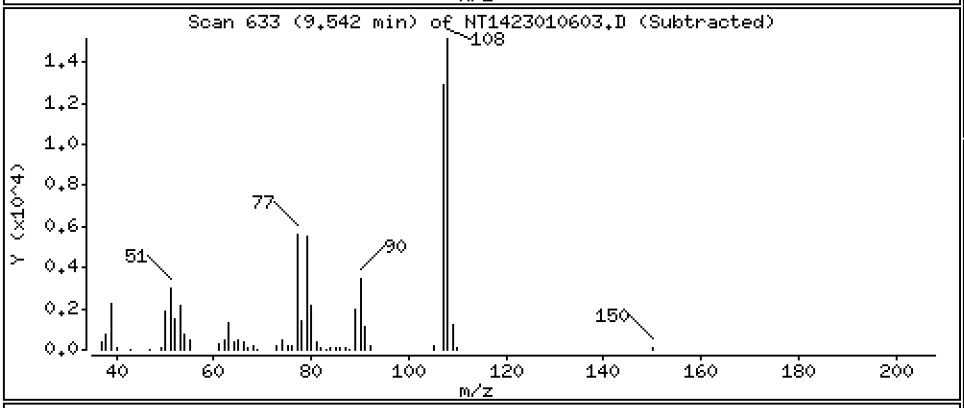
Column phase: ZB-5msi

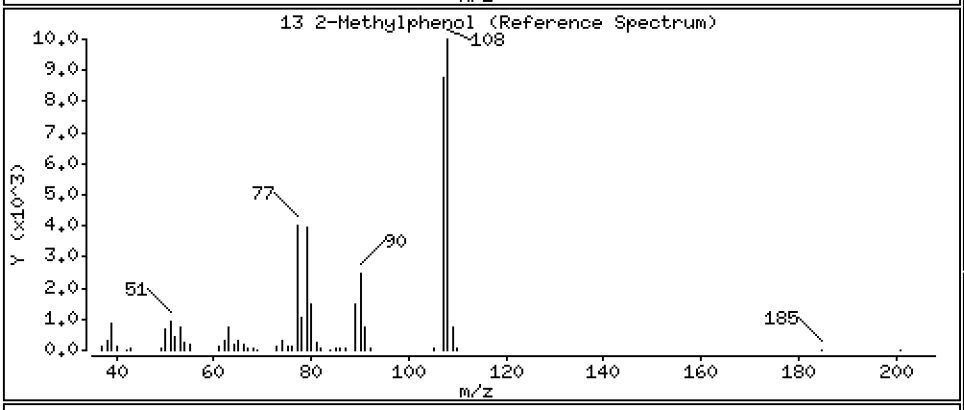
Column diameter: 0.25

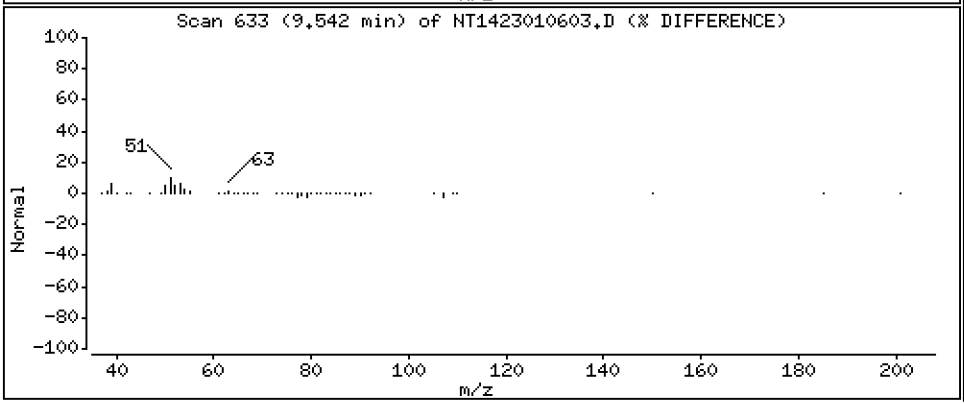
13 2-Methylphenol

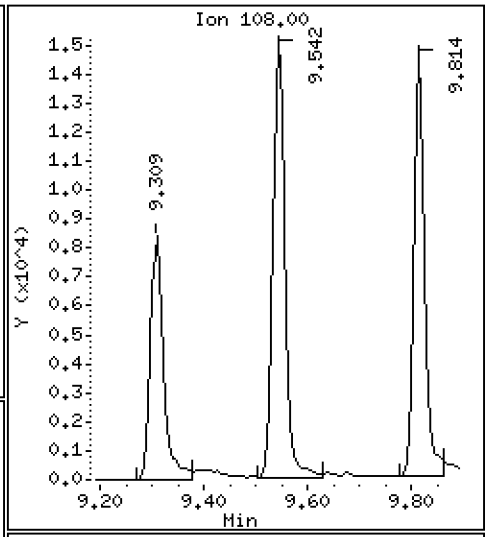
Concentration: 0.4295 ug/mL

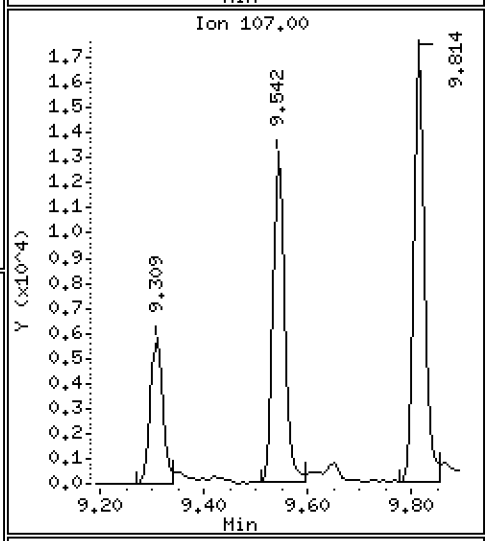


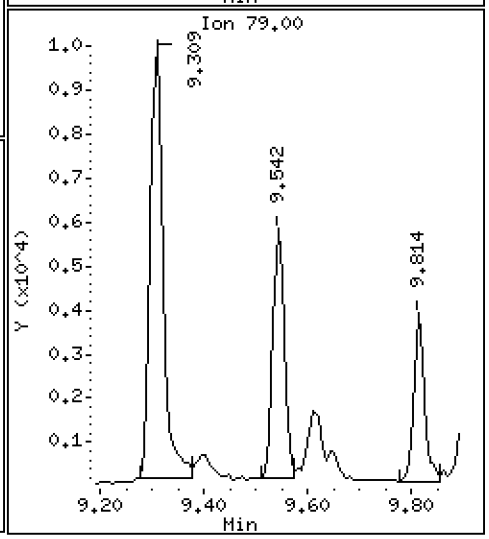












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

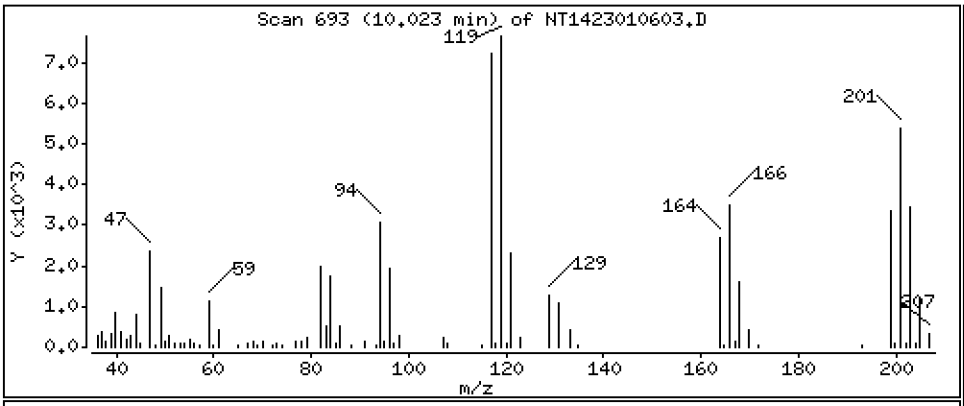
Operator: VTS

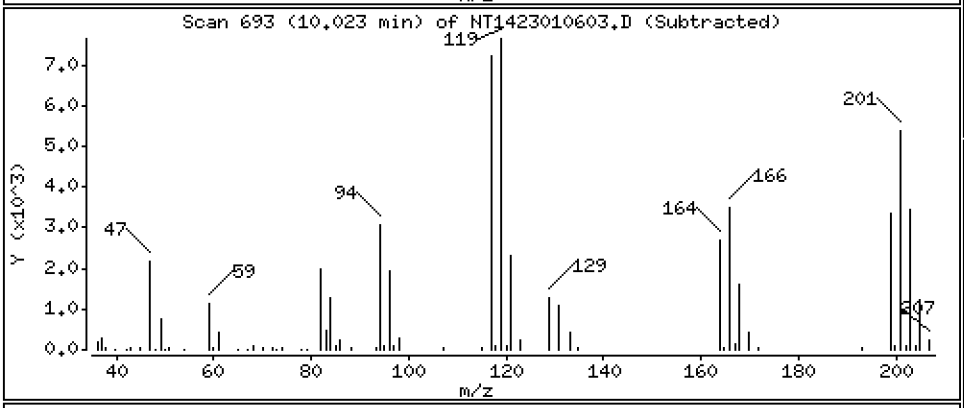
Column phase: ZB-5msi

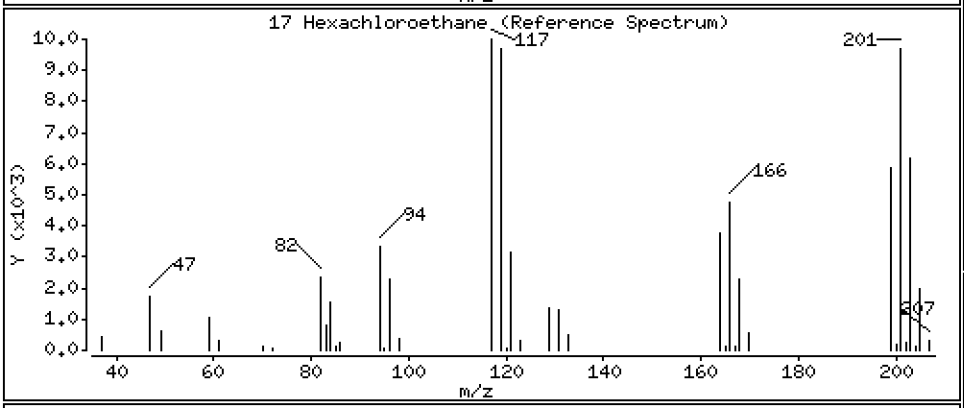
Column diameter: 0.25

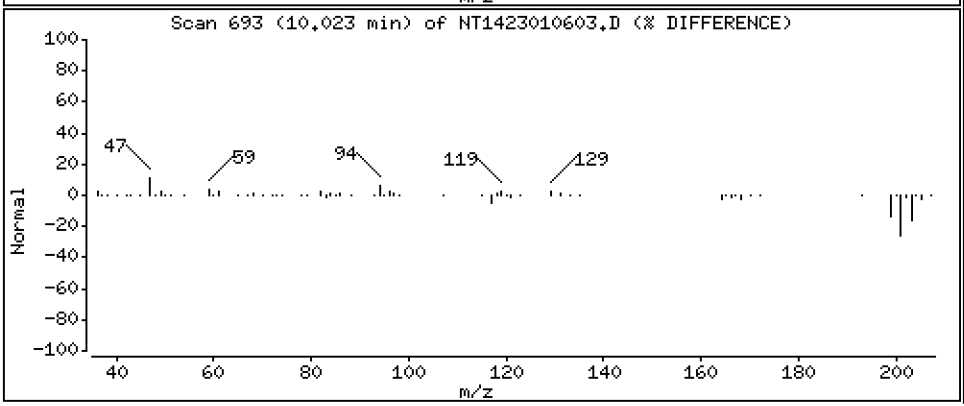
17 Hexachloroethane

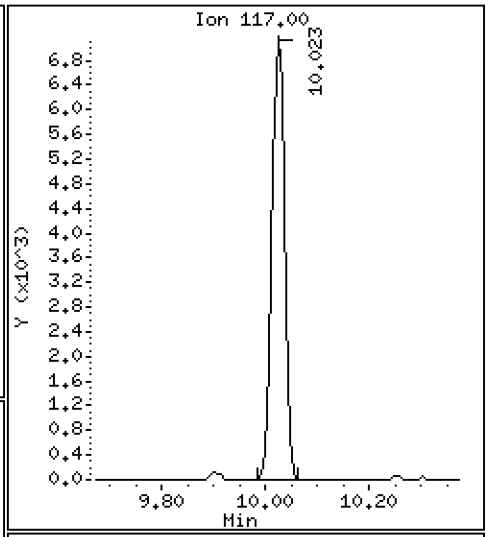
Concentration: 0.5235 ug/mL

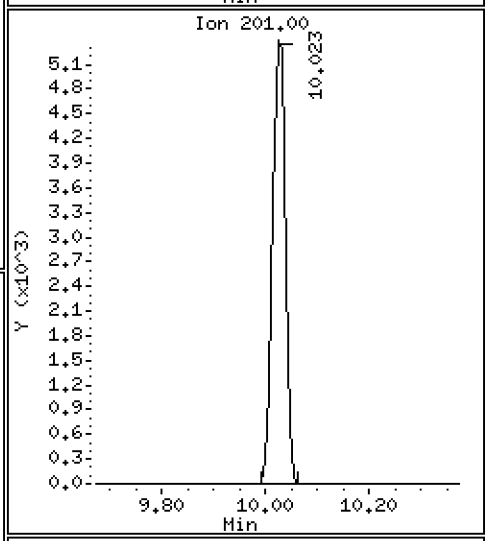


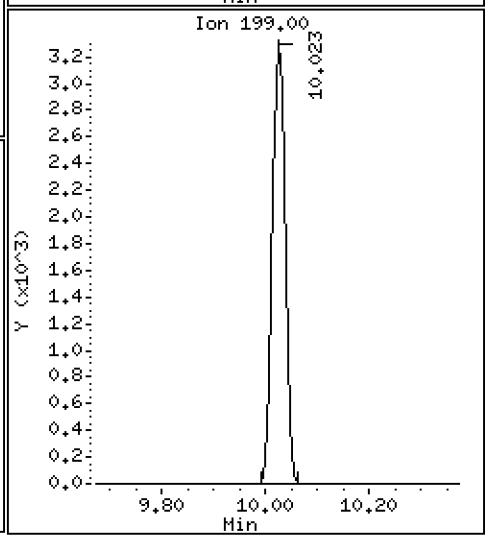












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

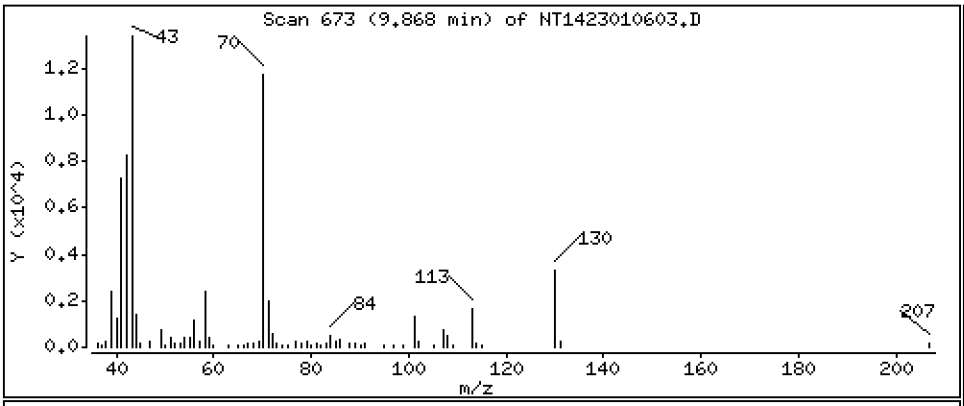
Operator: VTS

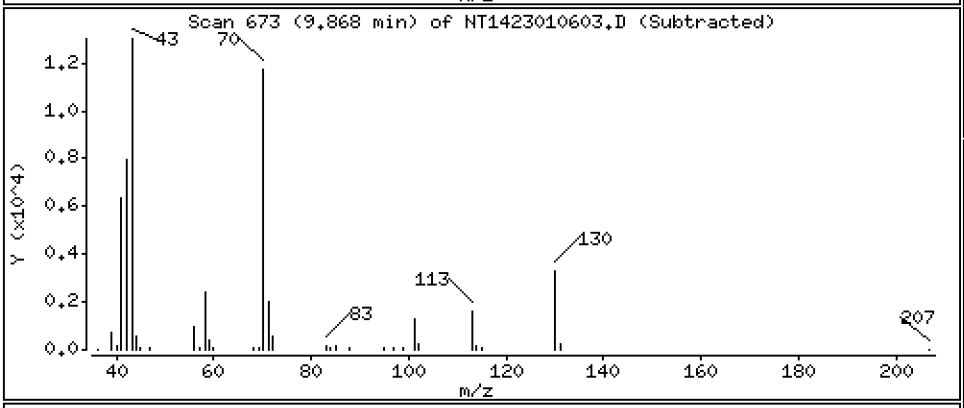
Column phase: ZB-5msi

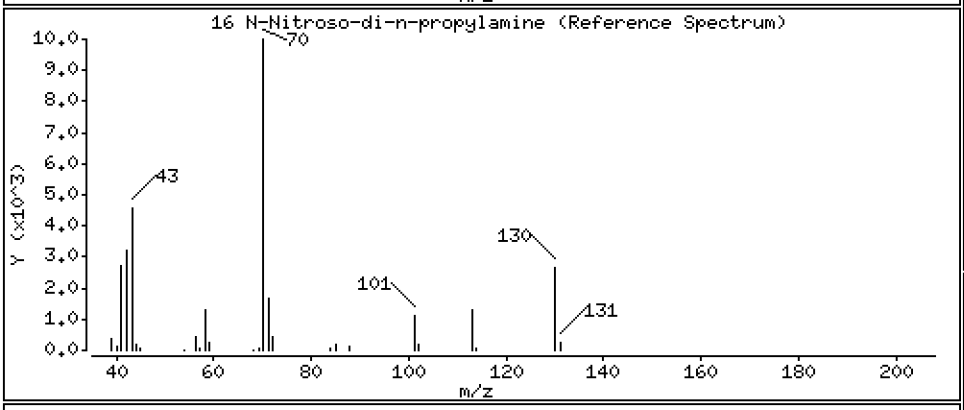
Column diameter: 0.25

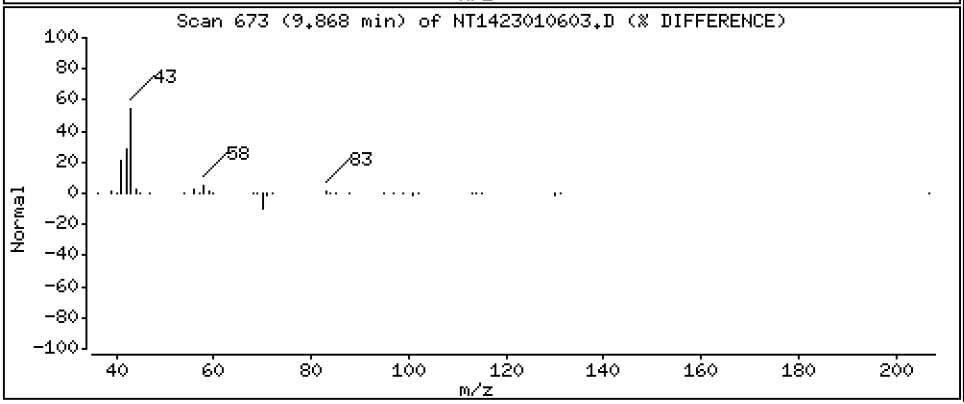
16 N-Nitroso-di-n-propylamine

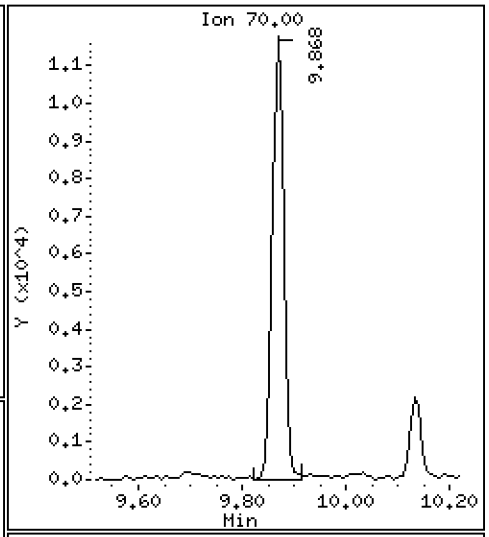
Concentration: 0.5254 ug/mL

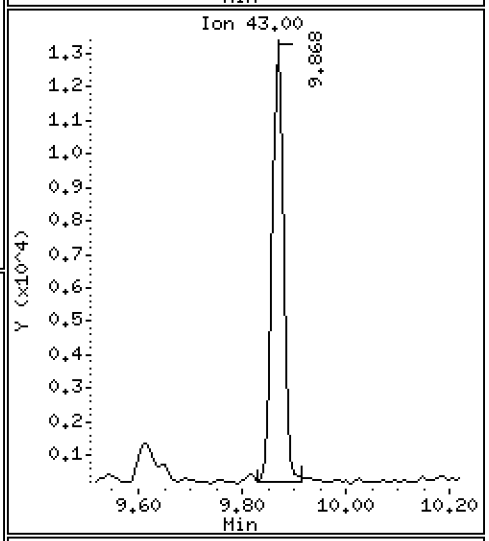


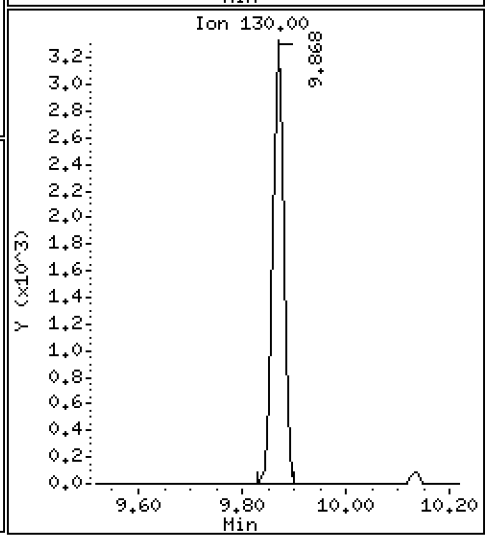












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

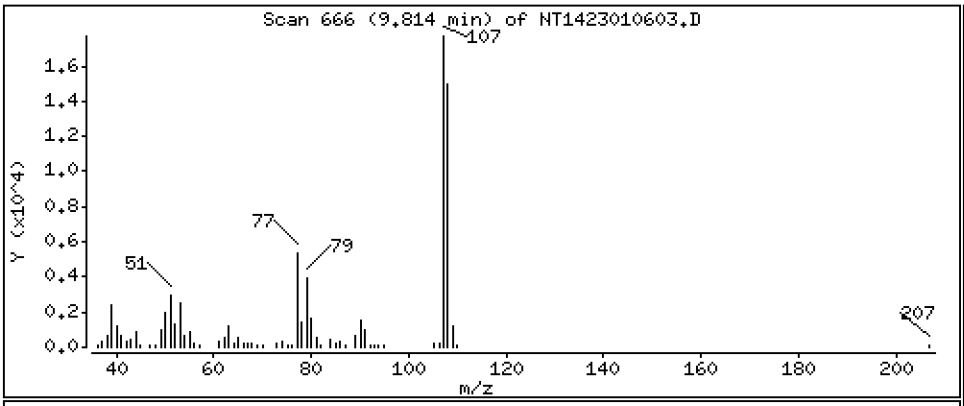
Operator: VTS

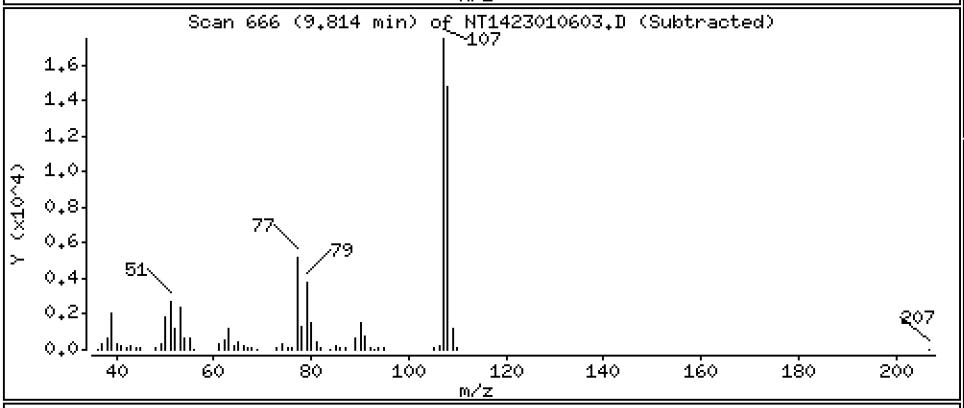
Column phase: ZB-5msi

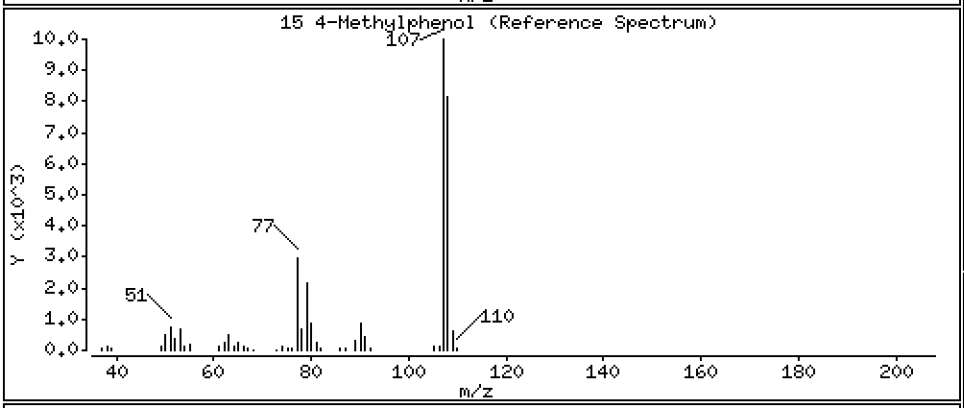
Column diameter: 0.25

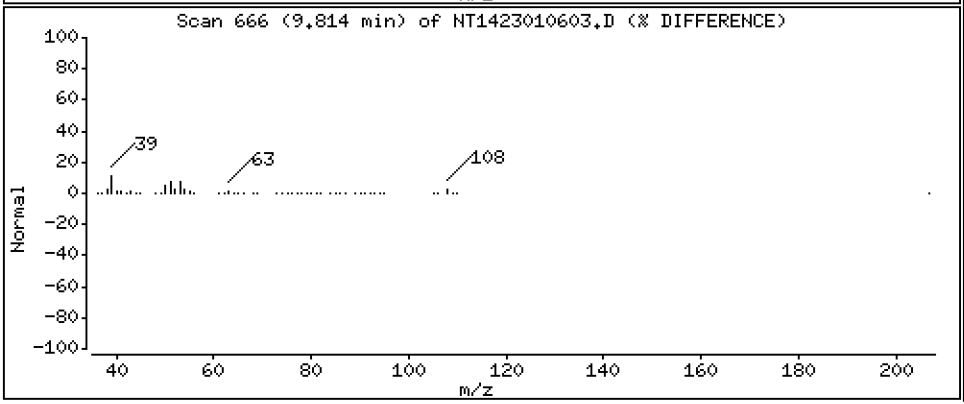
15 4-Methylphenol

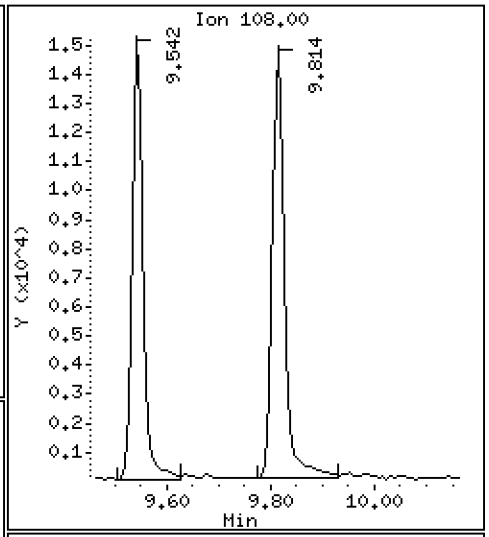
Concentration: 0.4019 ug/mL

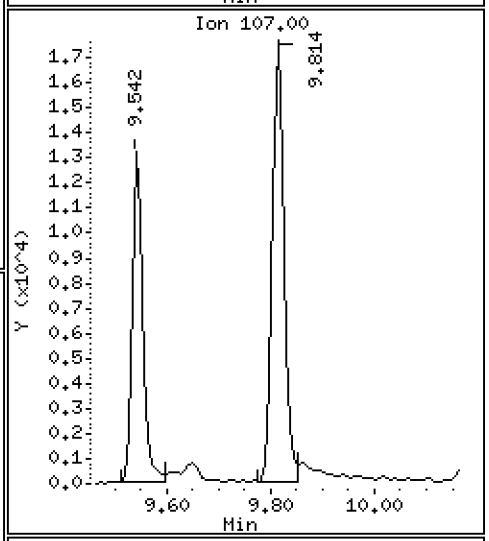


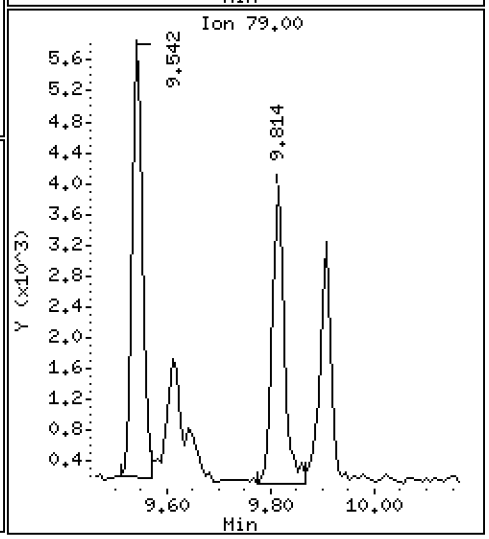












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

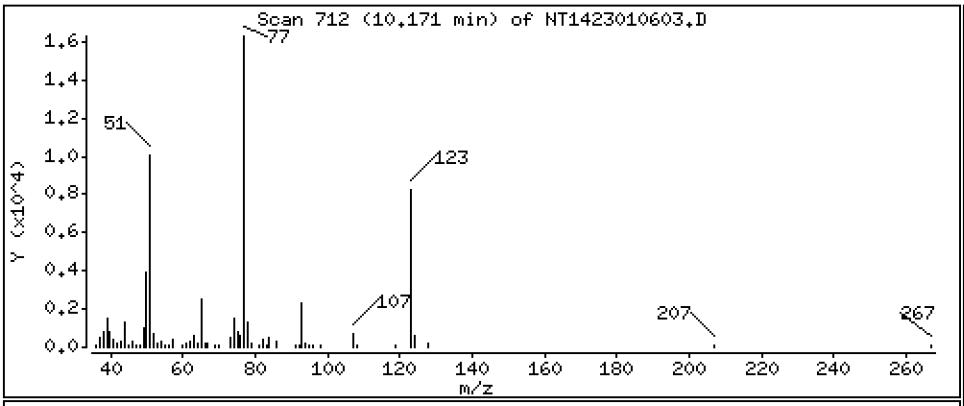
Operator: VTS

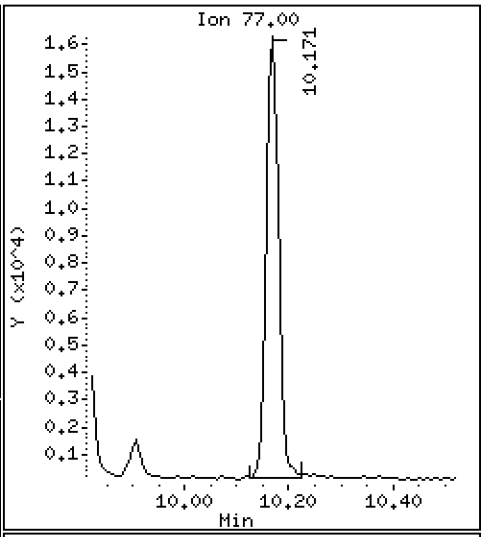
Column phase: ZB-5msi

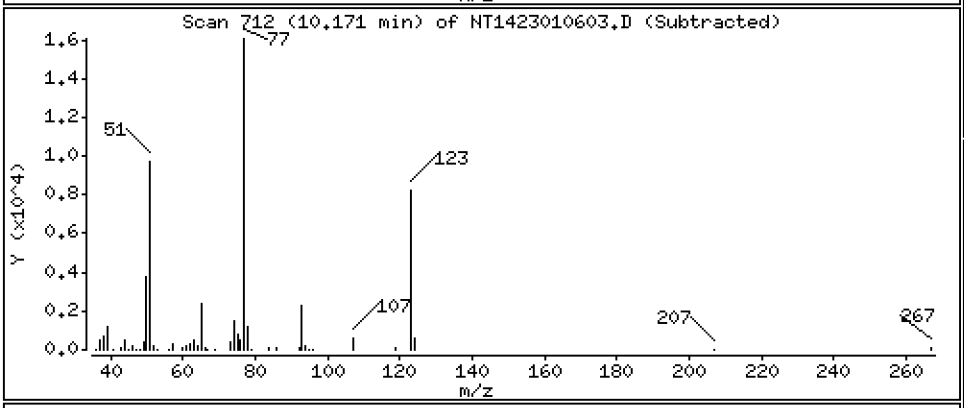
Column diameter: 0.25

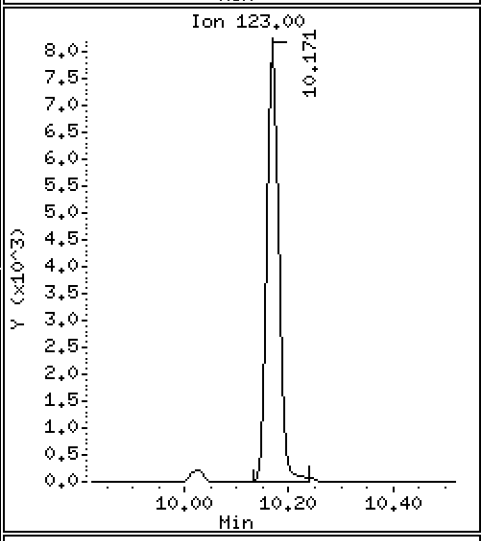
19 Nitrobenzene

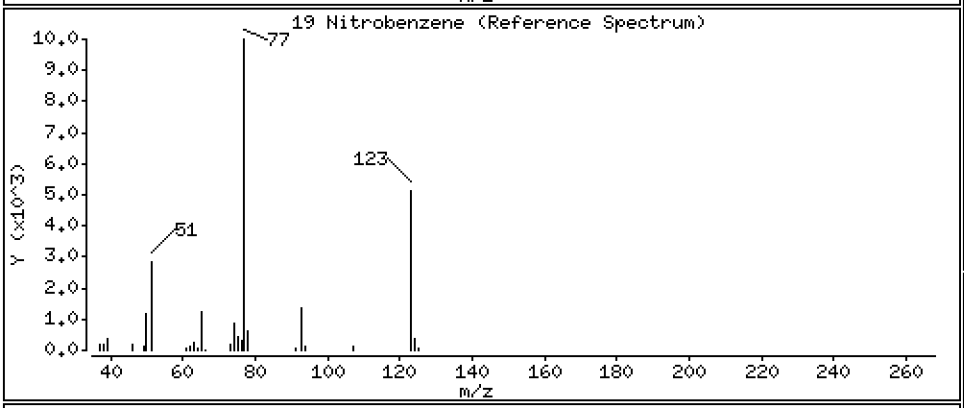
Concentration: 0.4876 ug/mL

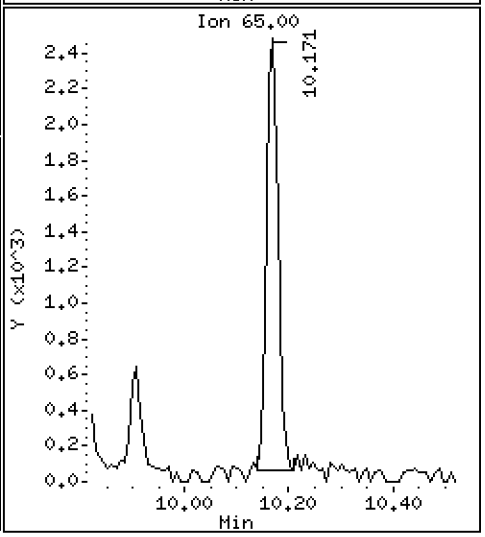


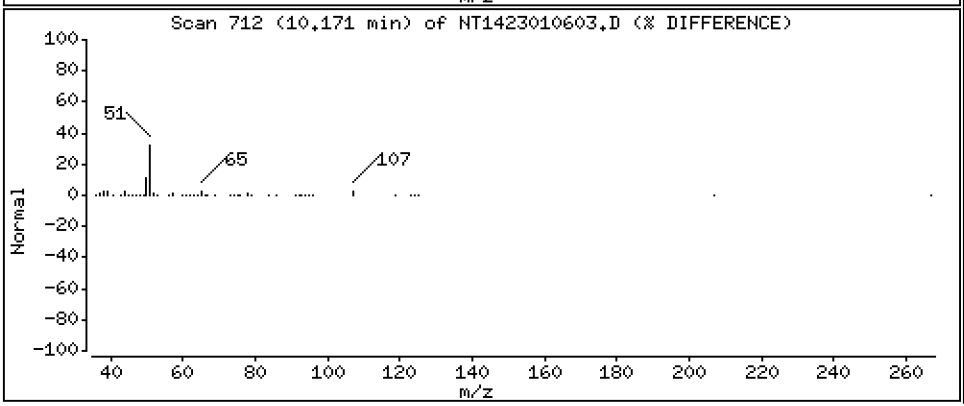












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

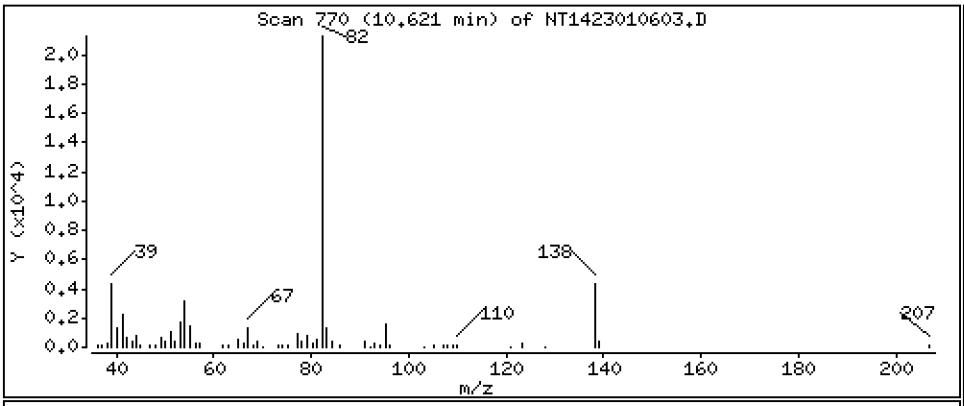
Operator: VTS

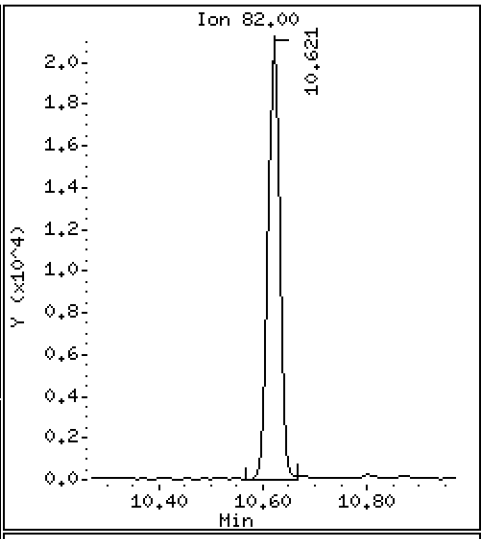
Column phase: ZB-5msi

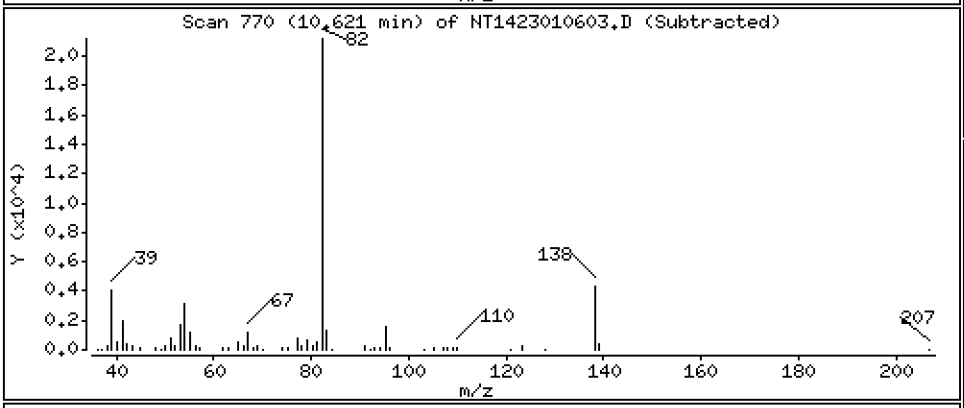
Column diameter: 0.25

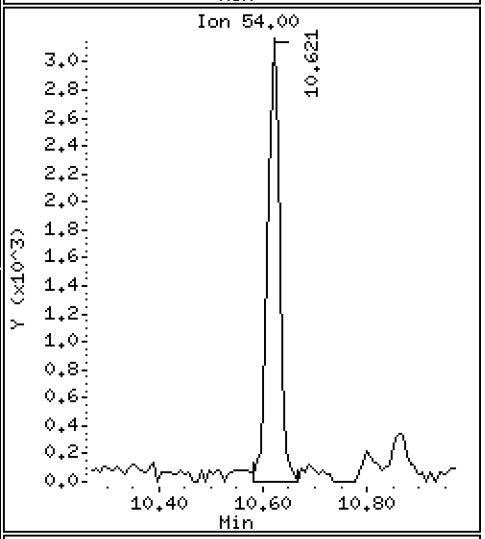
20 Isophorone

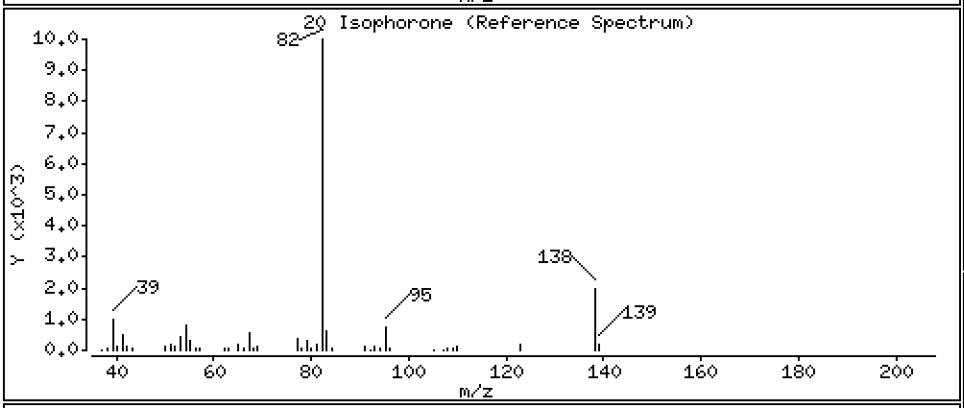
Concentration: 0.4725 ug/mL

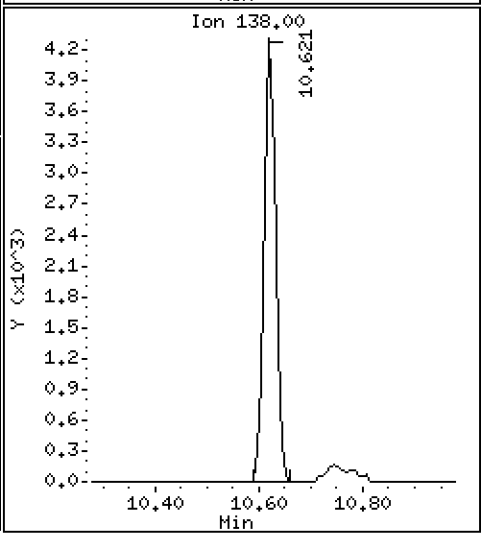


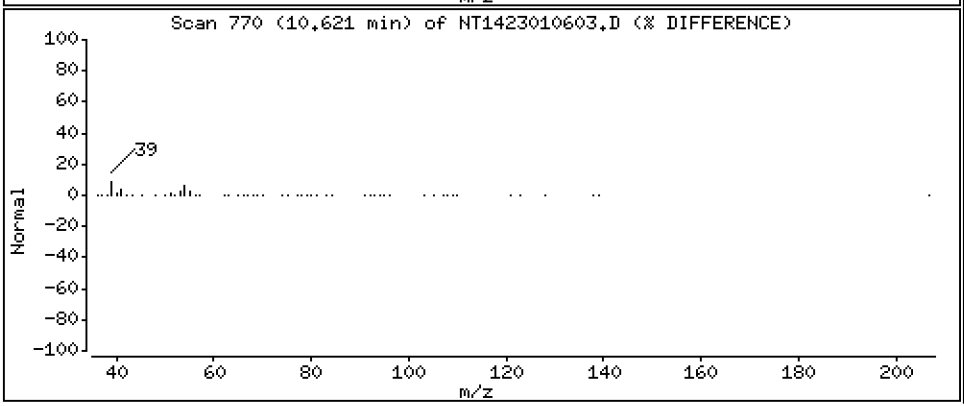












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

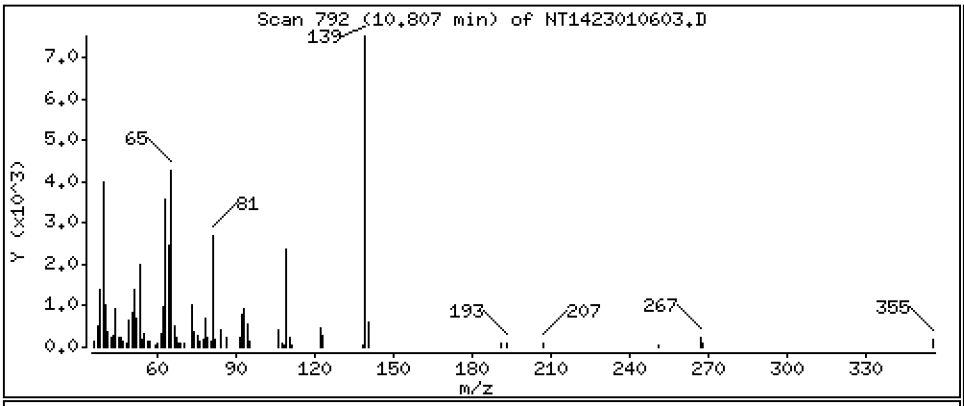
Operator: VTS

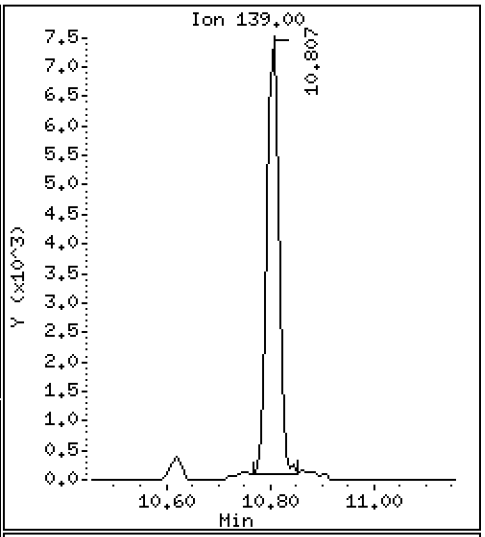
Column phase: ZB-5msi

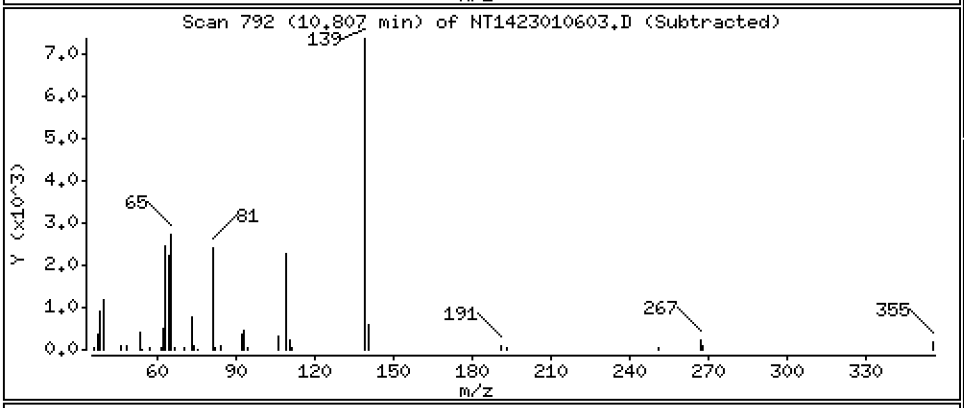
Column diameter: 0.25

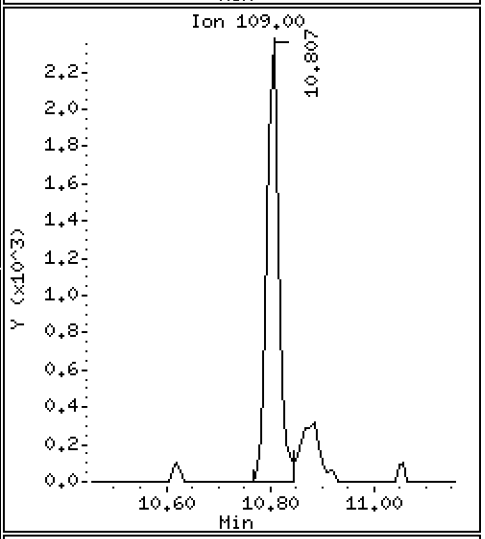
21 2-Nitrophenol

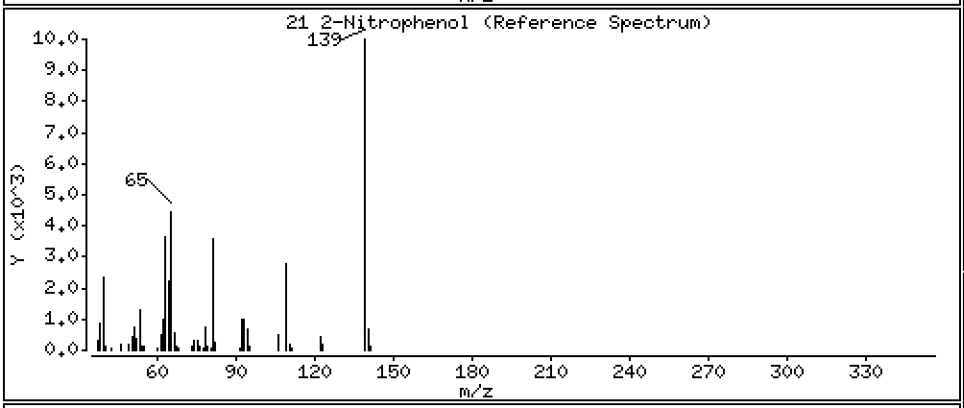
Concentration: 0.3523 ug/mL

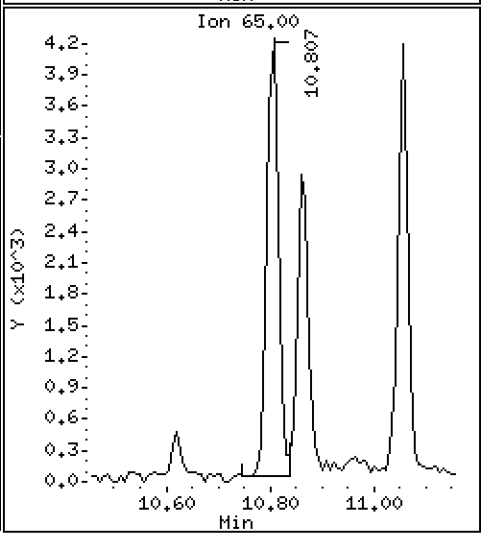


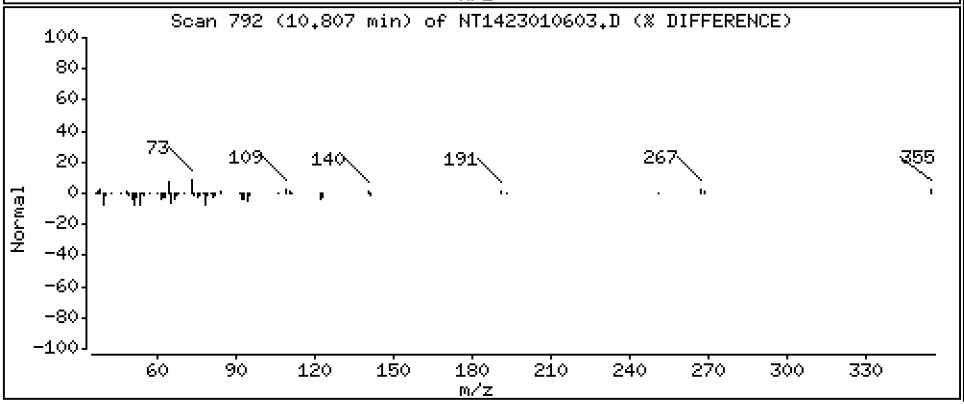












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

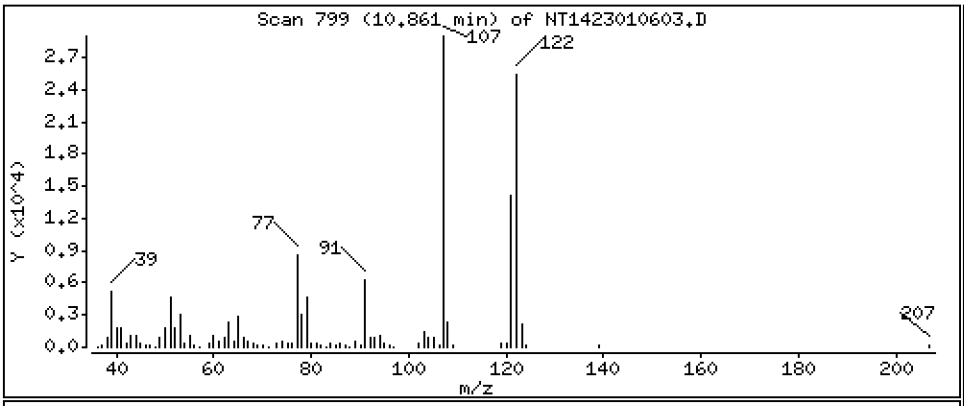
Operator: VTS

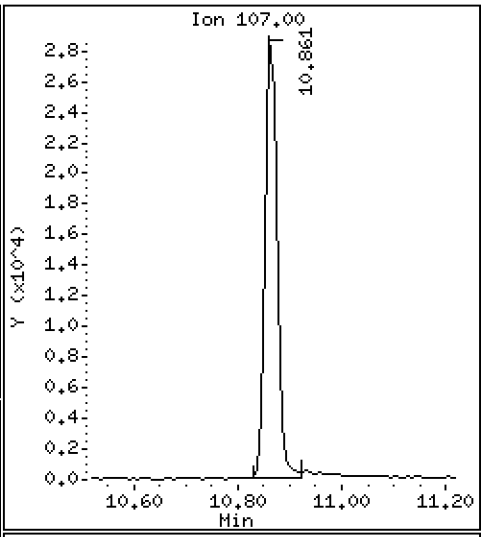
Column phase: ZB-5msi

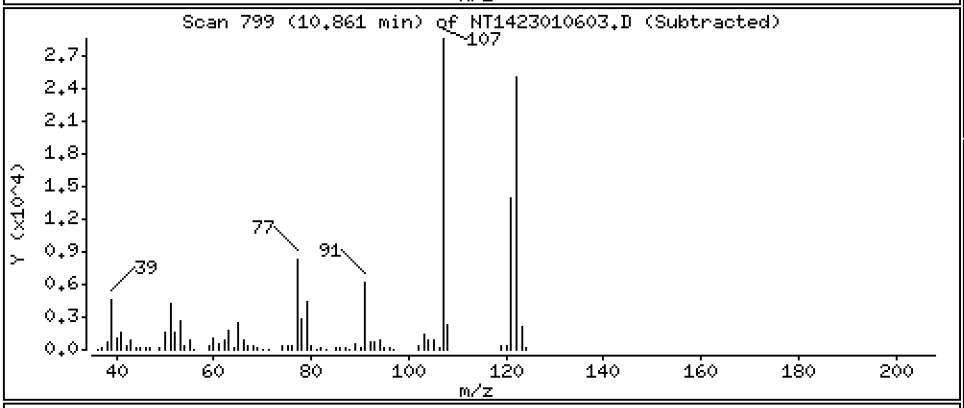
Column diameter: 0.25

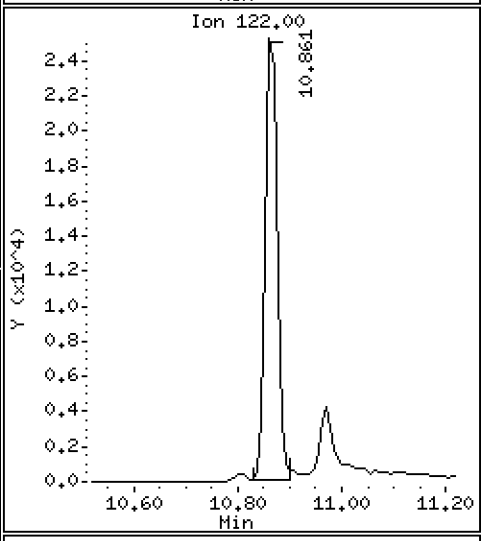
22 2,4-Dimethylphenol

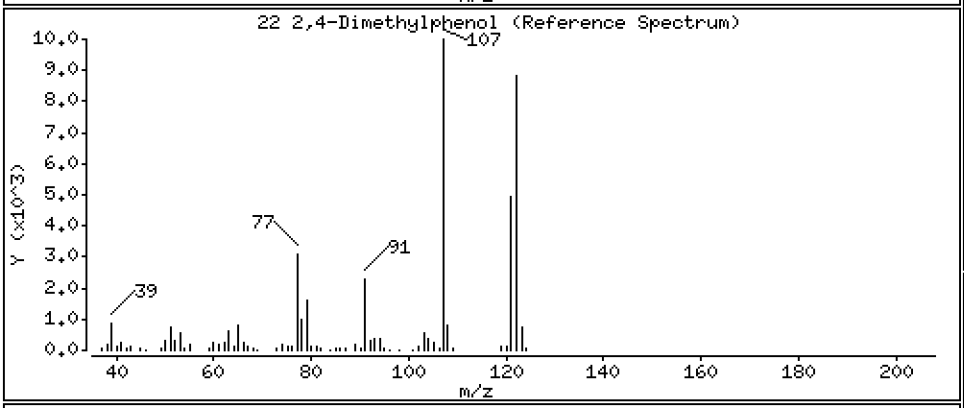
Concentration: 0.7958 ug/mL

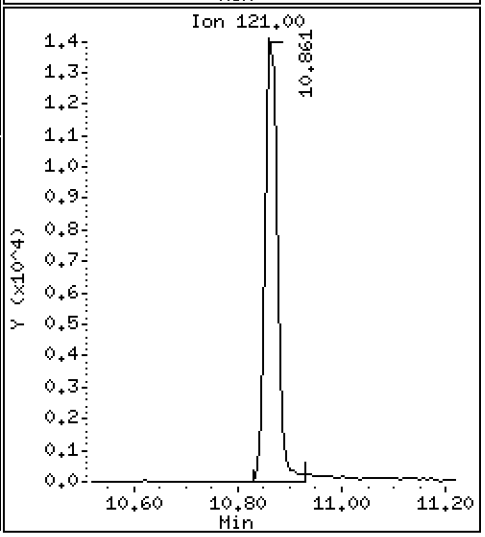


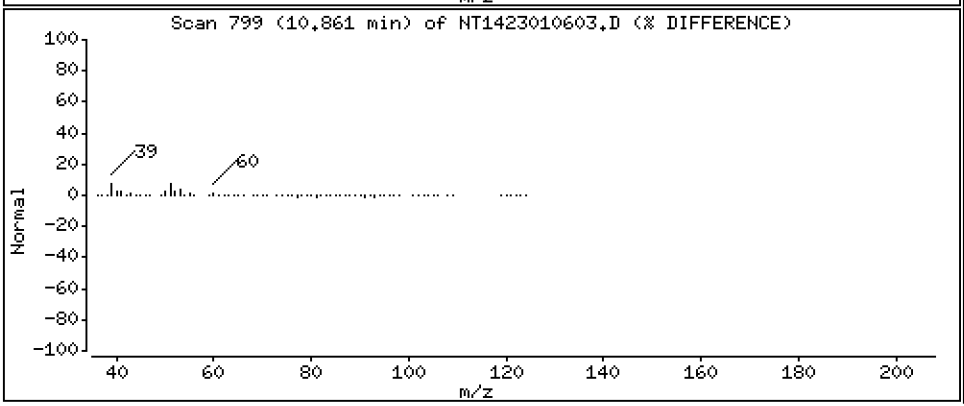












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

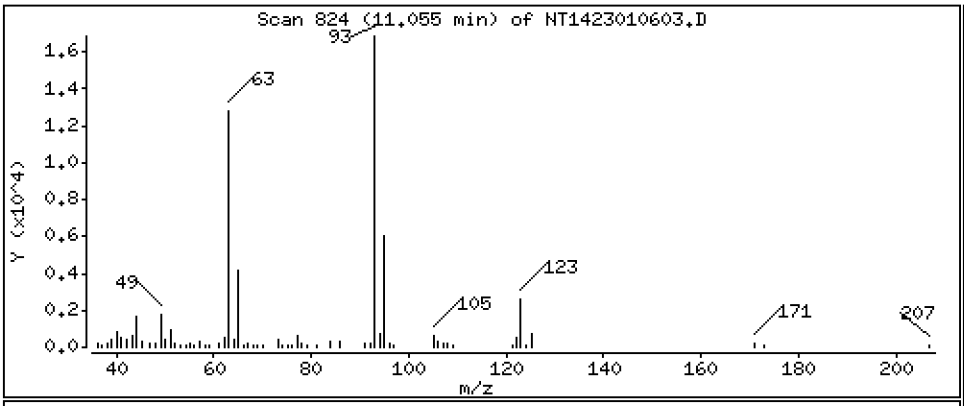
Operator: VTS

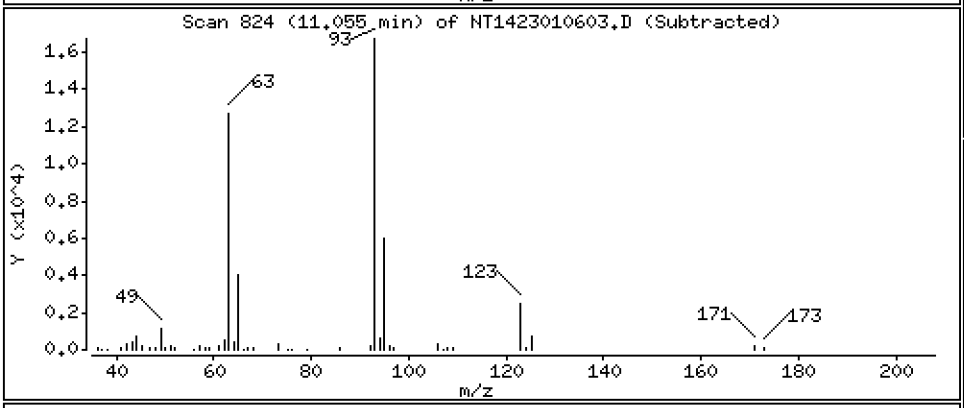
Column phase: ZB-5msi

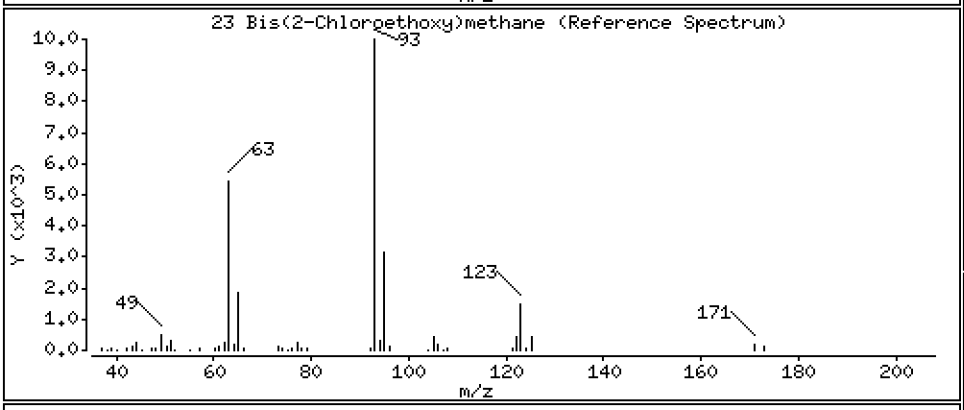
Column diameter: 0.25

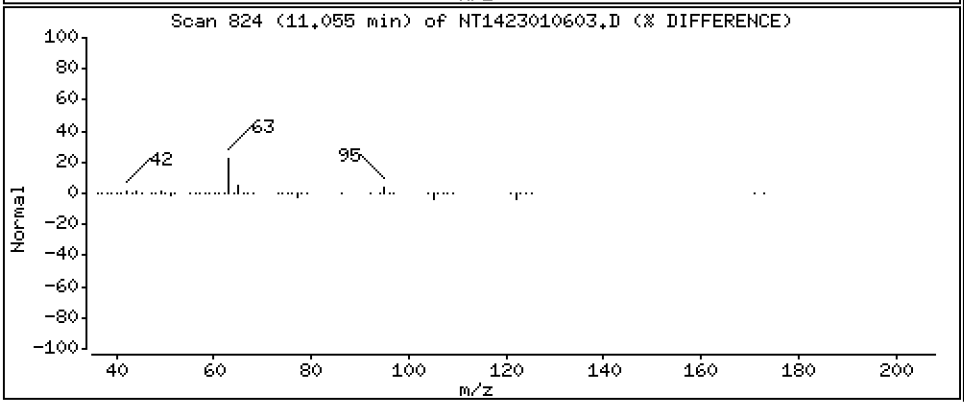
23 Bis(2-Chloroethoxy)methane

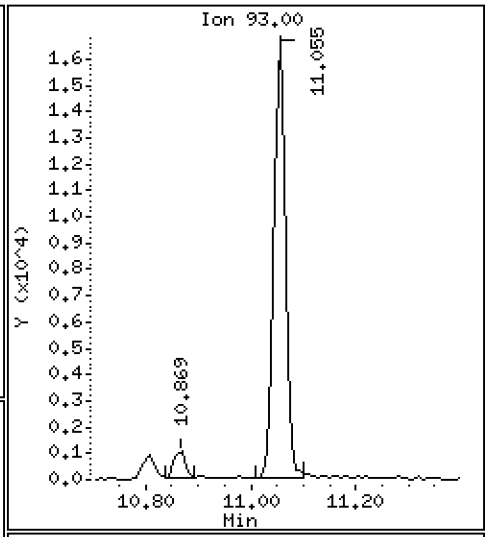
Concentration: 0.4713 ug/mL

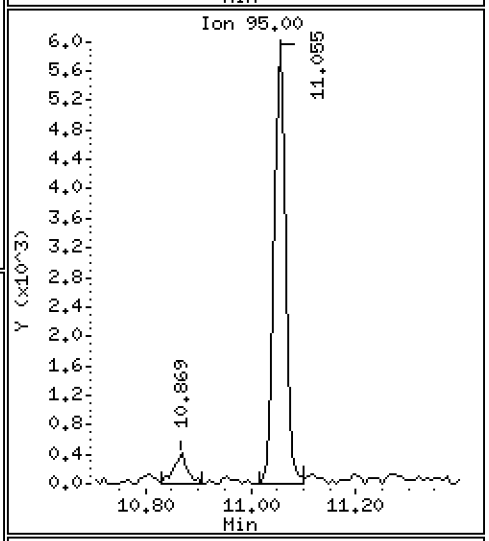


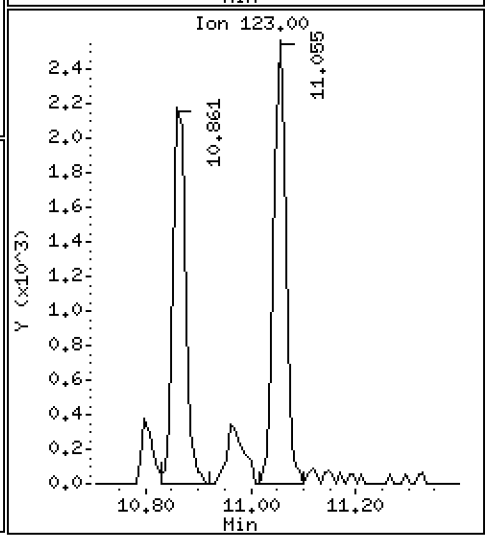












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

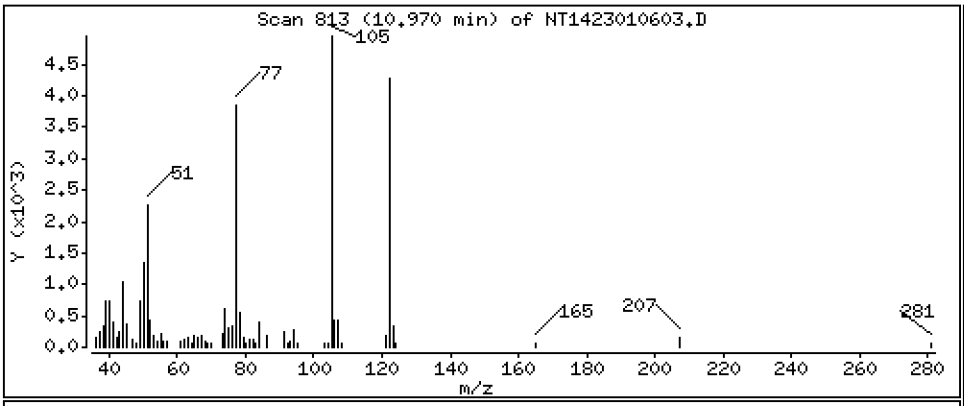
Operator: VTS

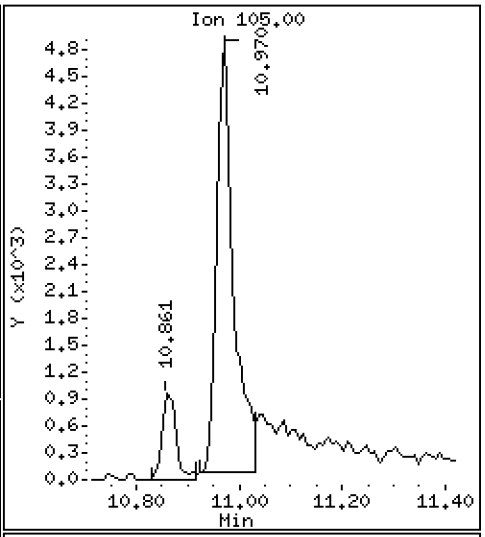
Column phase: ZB-5msi

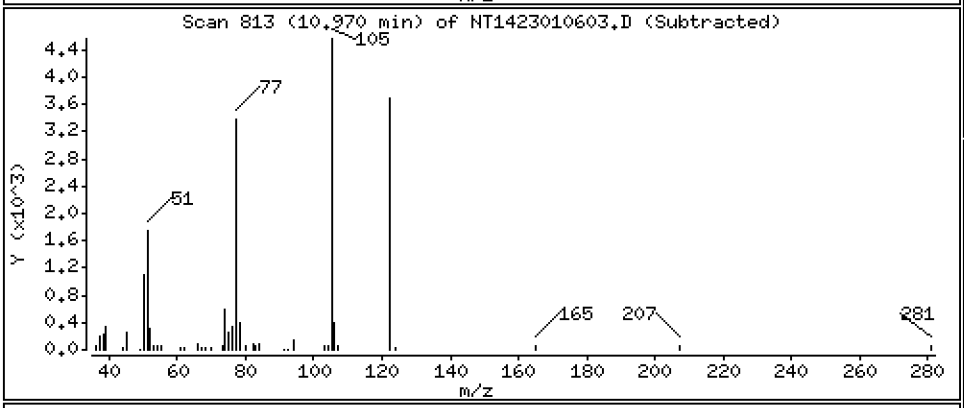
Column diameter: 0.25

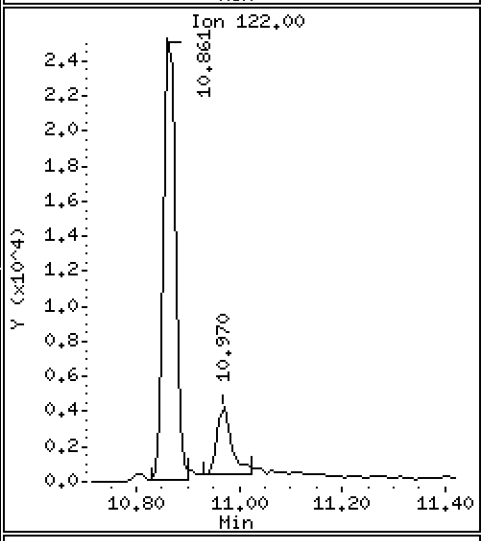
24 Benzoic acid

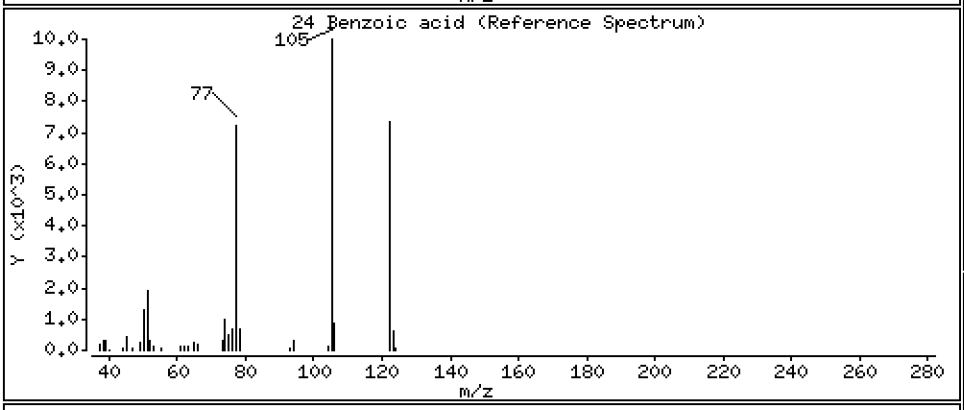
Concentration: 0.3198 ug/mL

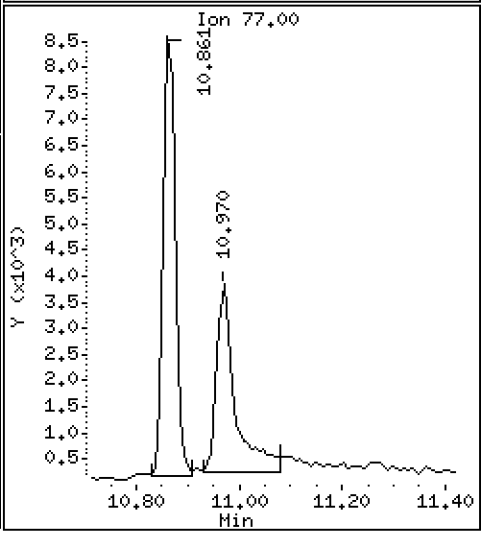


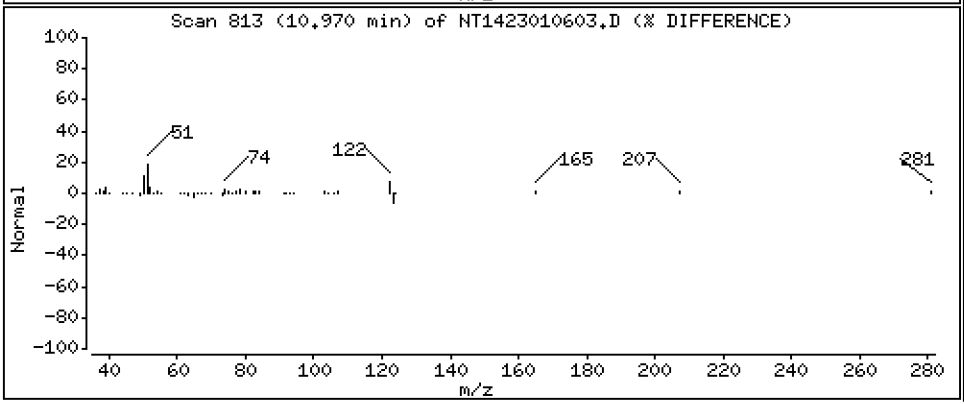












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

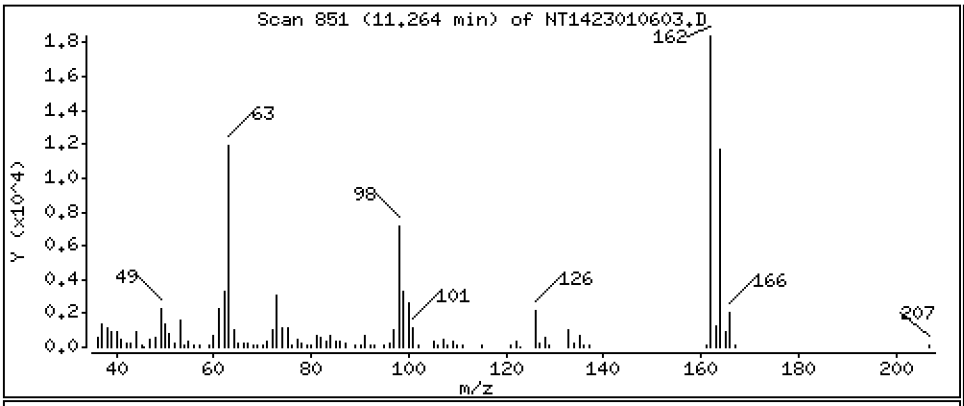
Operator: VTS

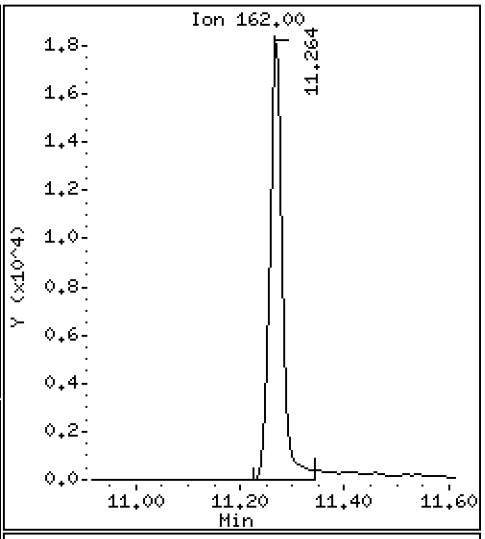
Column phase: ZB-5msi

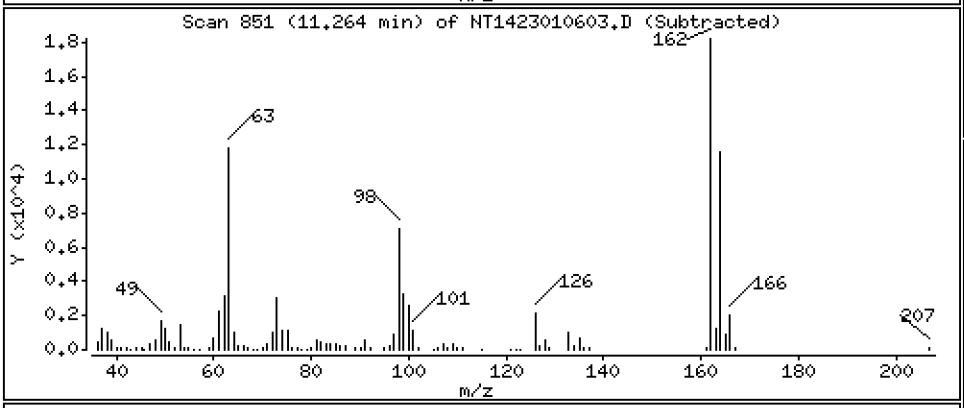
Column diameter: 0.25

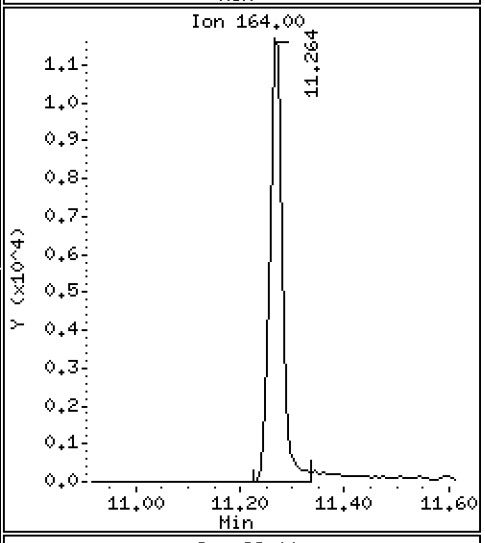
25 2,4-Dichlorophenol

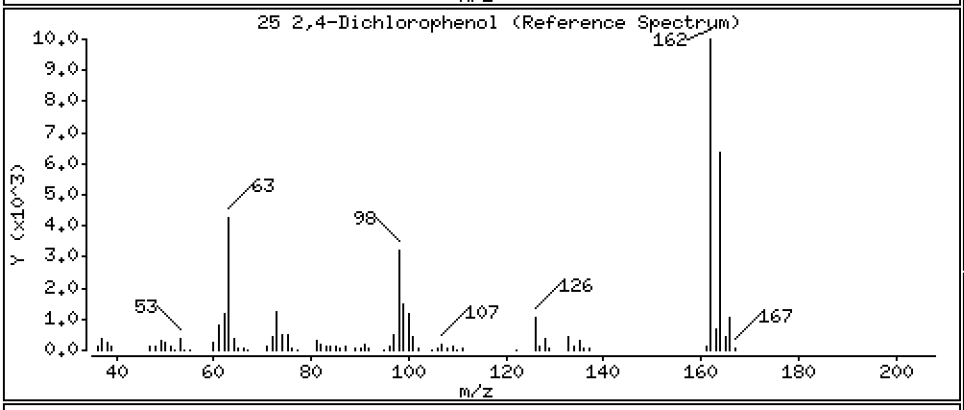
Concentration: 0.6742 ug/mL

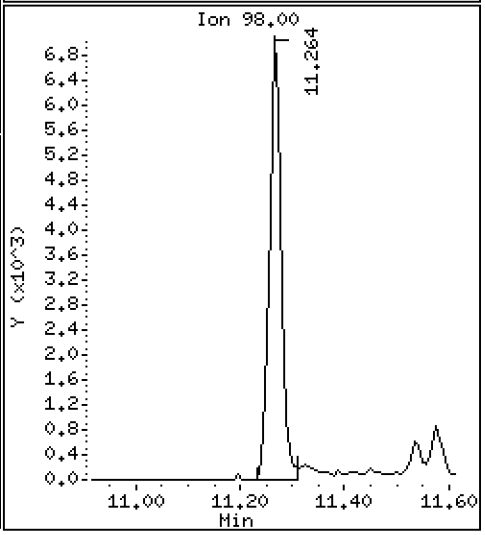


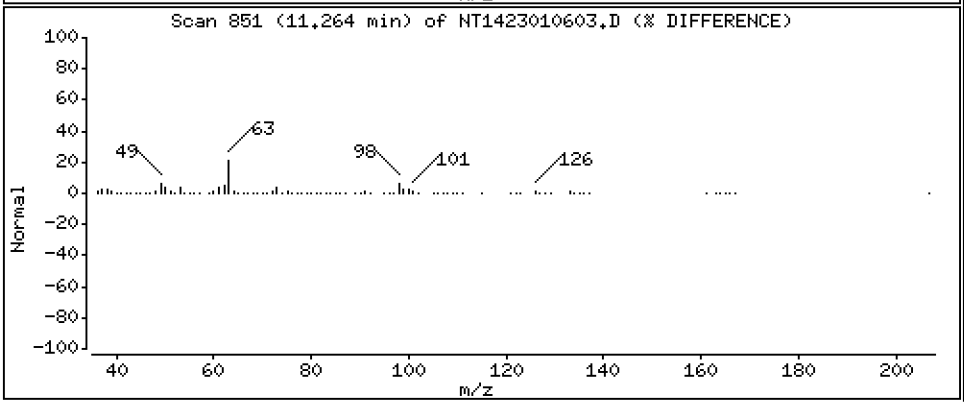












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

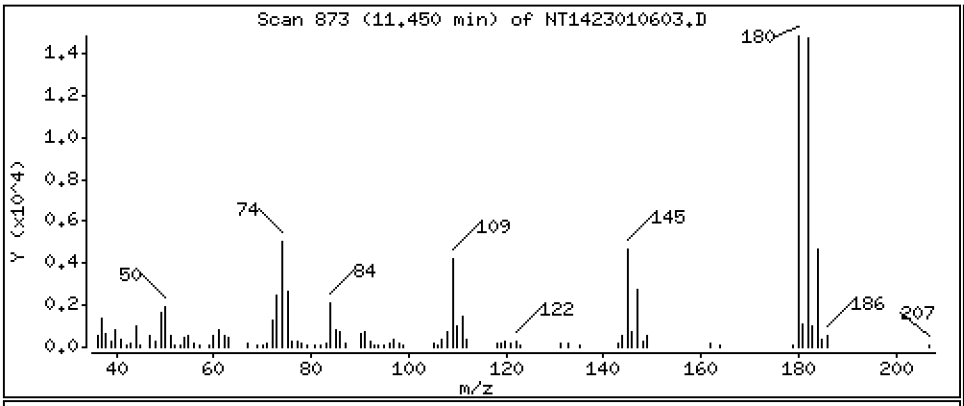
Operator: VTS

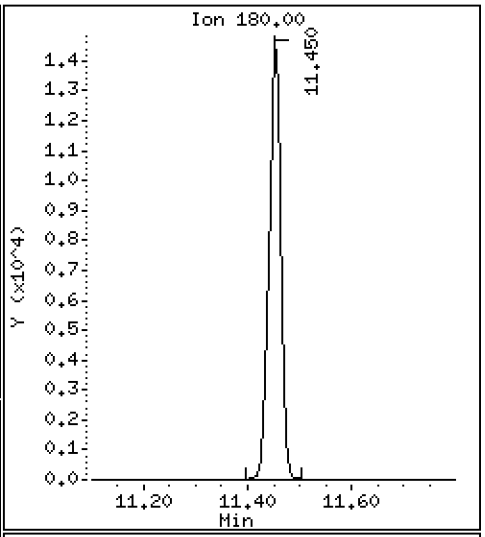
Column phase: ZB-5msi

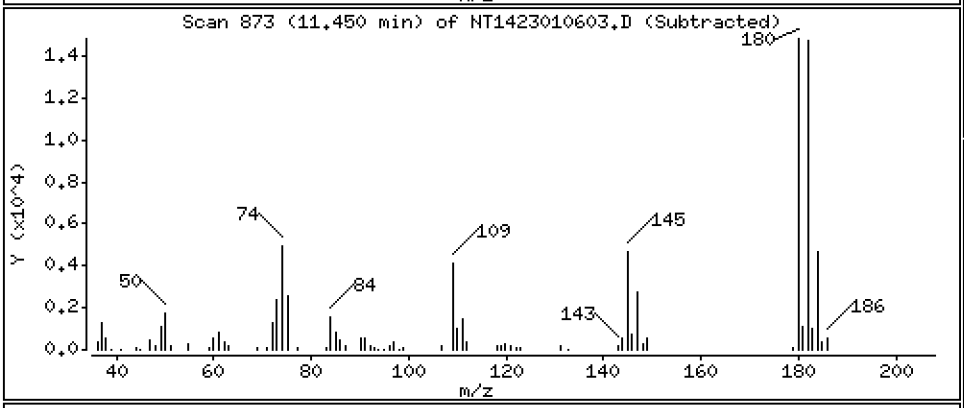
Column diameter: 0.25

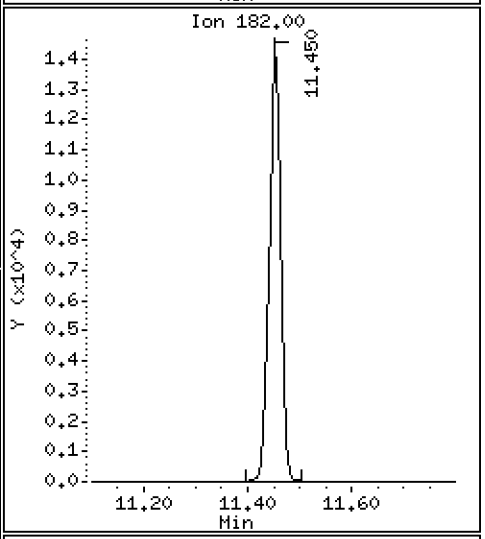
26 1,2,4-Trichlorobenzene

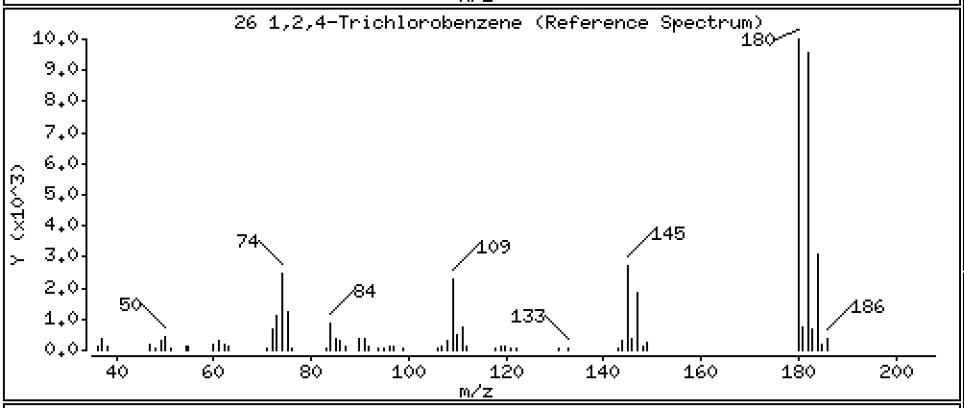
Concentration: 0.5347 ug/mL

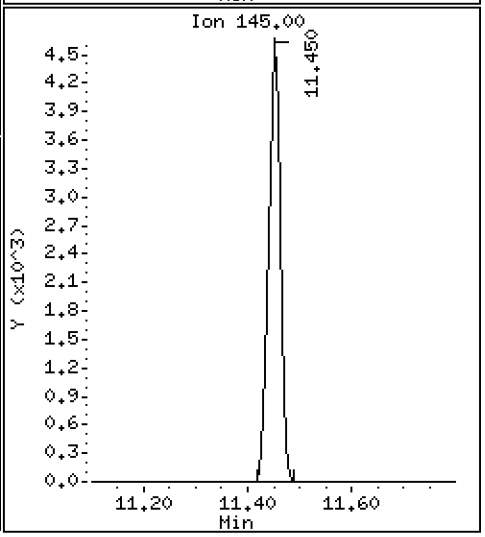


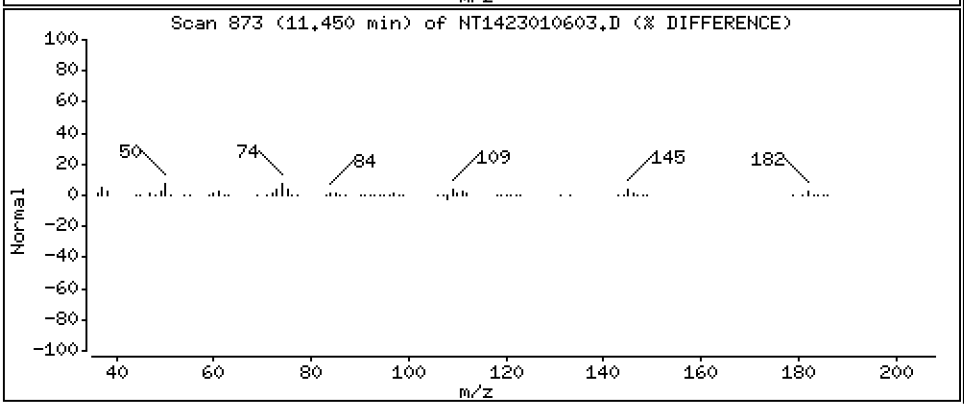












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

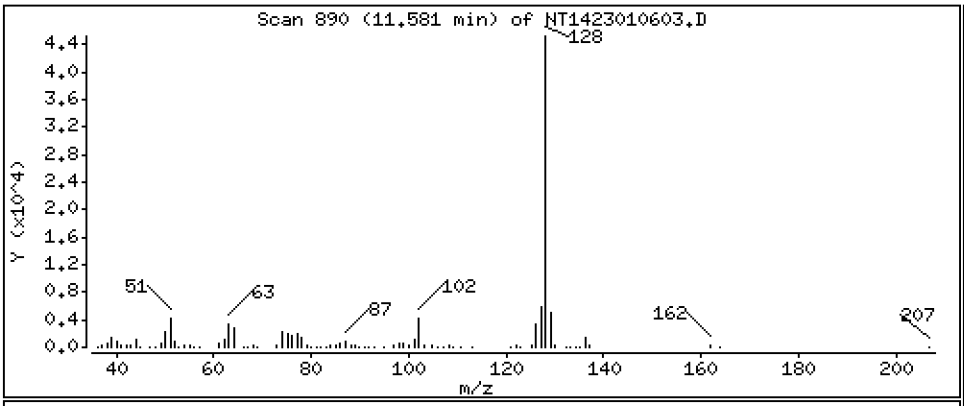
Operator: VTS

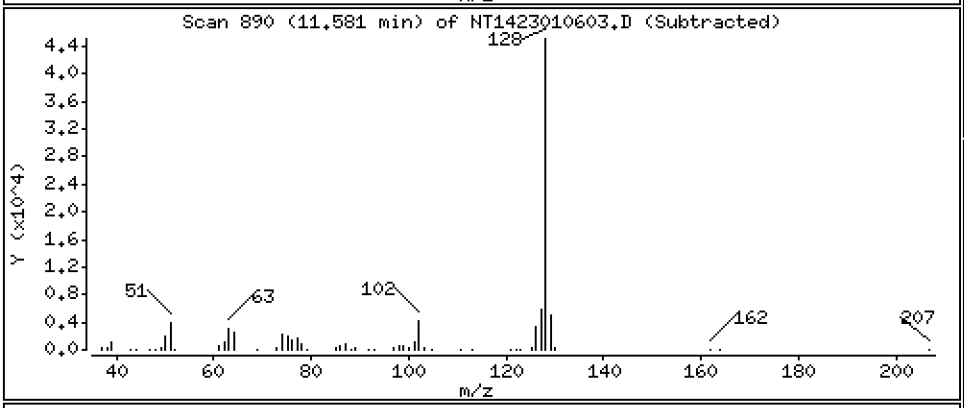
Column phase: ZB-5msi

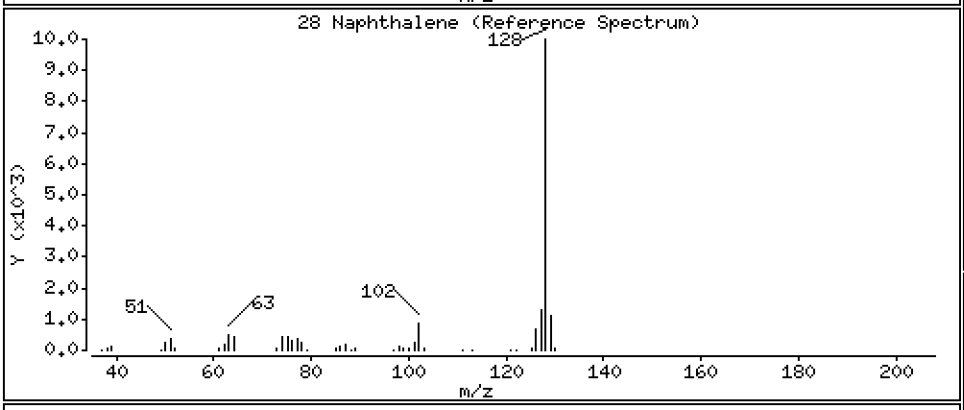
Column diameter: 0.25

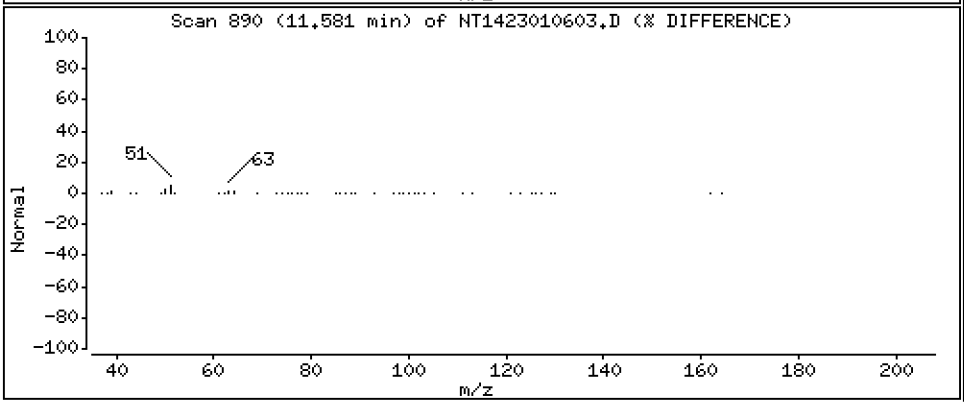
28 Naphthalene

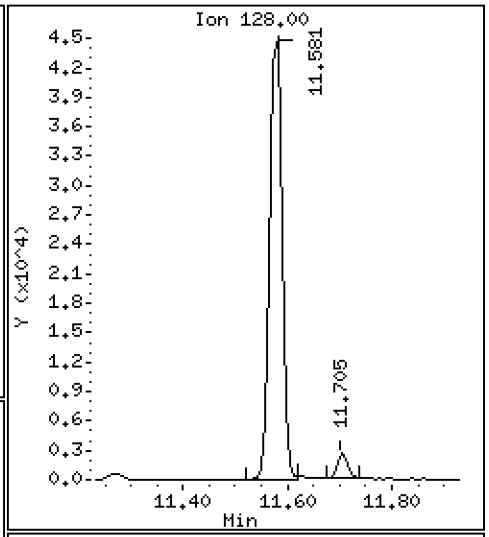
Concentration: 0.4609 ug/mL

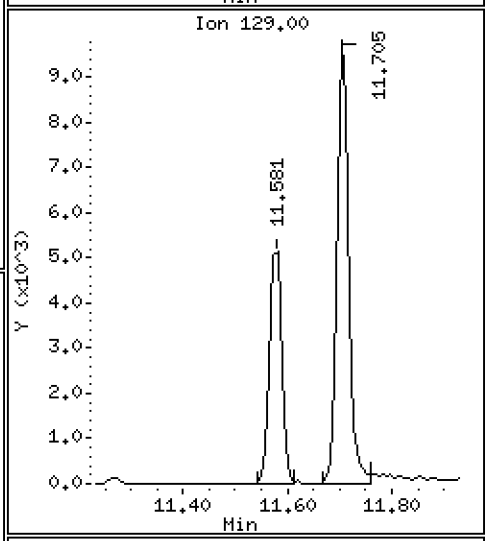


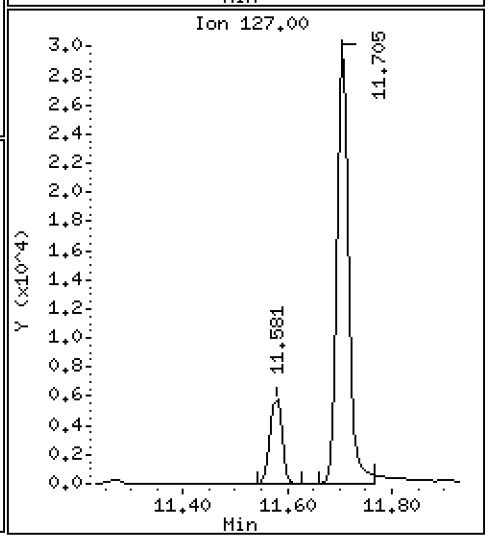












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

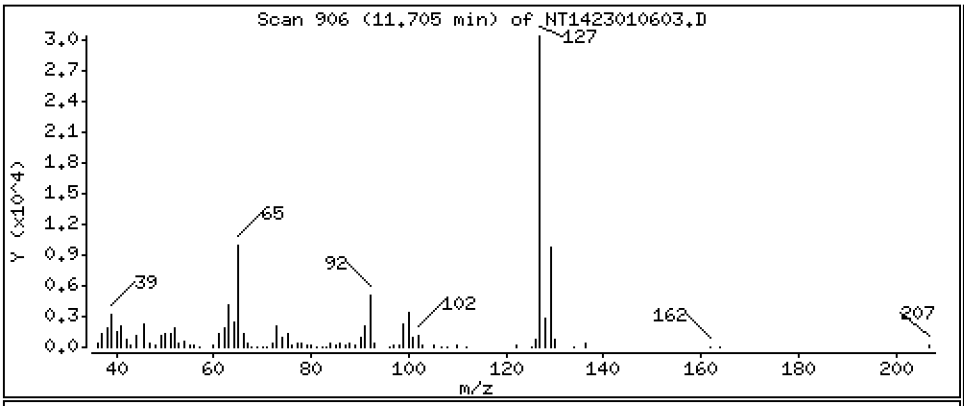
Operator: VTS

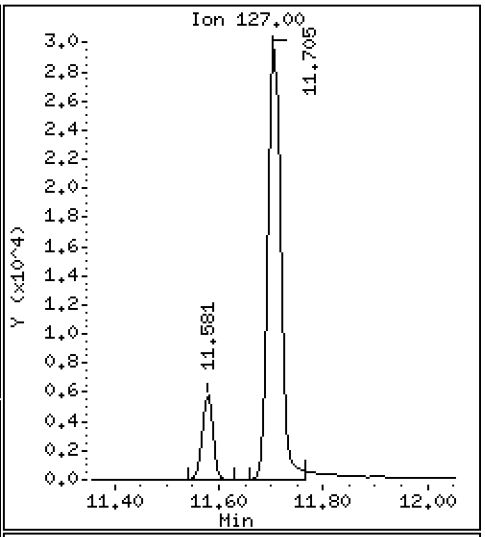
Column phase: ZB-5msi

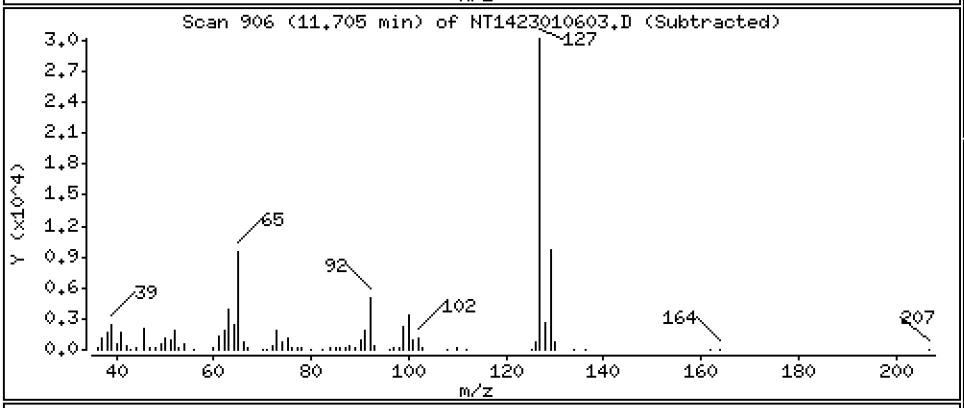
Column diameter: 0.25

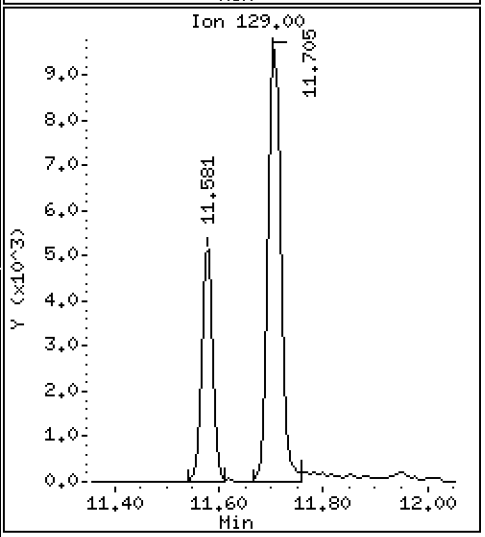
29 4-Chloroaniline

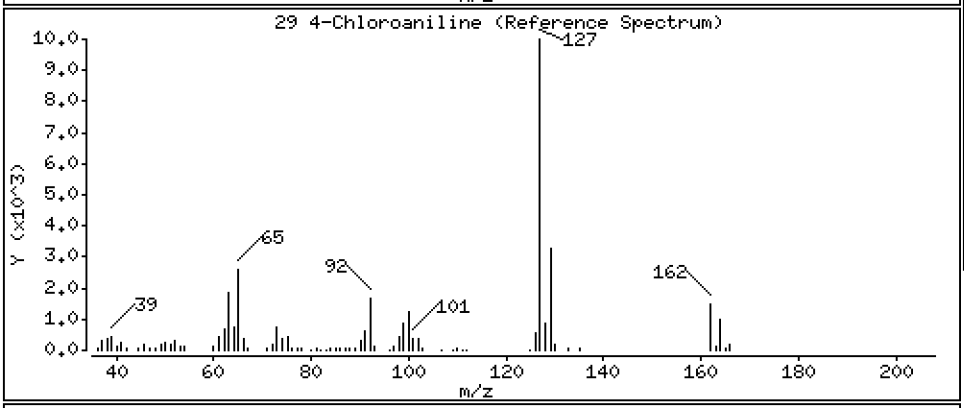
Concentration: 0.7791 ug/mL

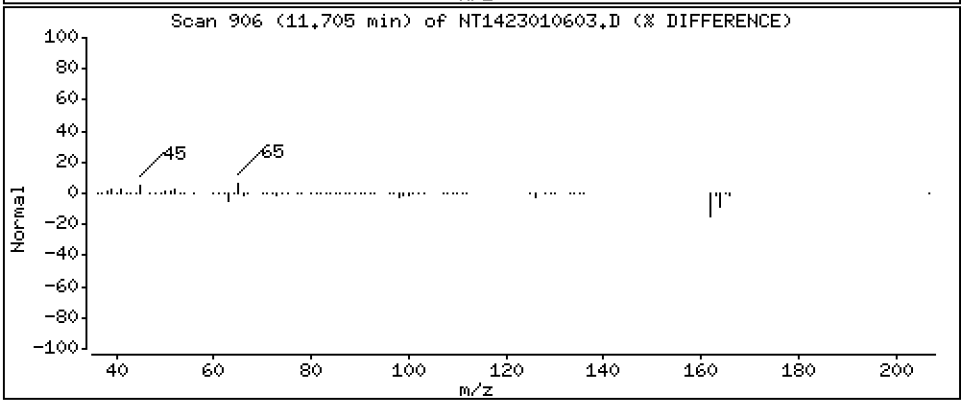












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

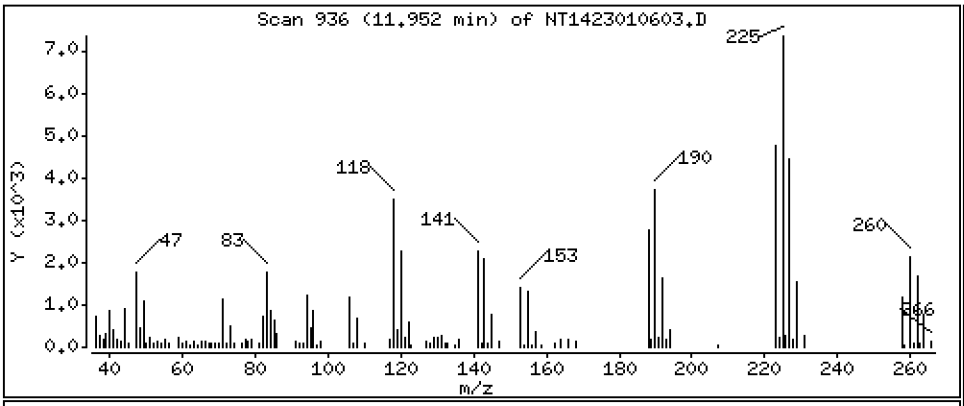
Operator: VTS

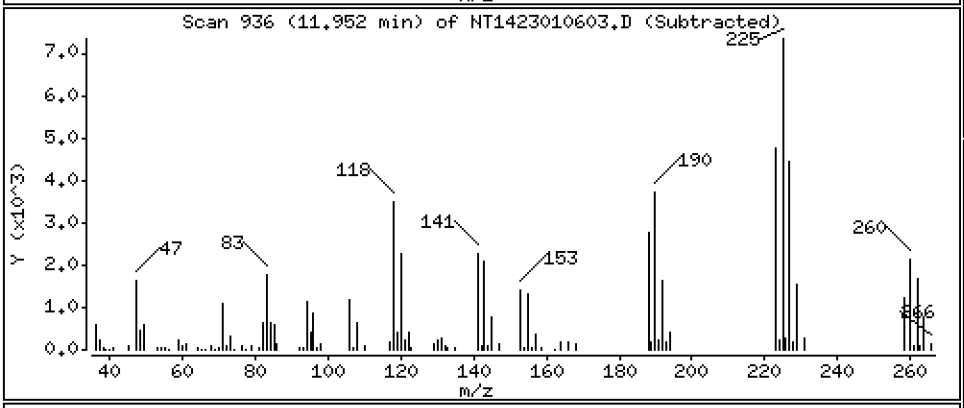
Column phase: ZB-5msi

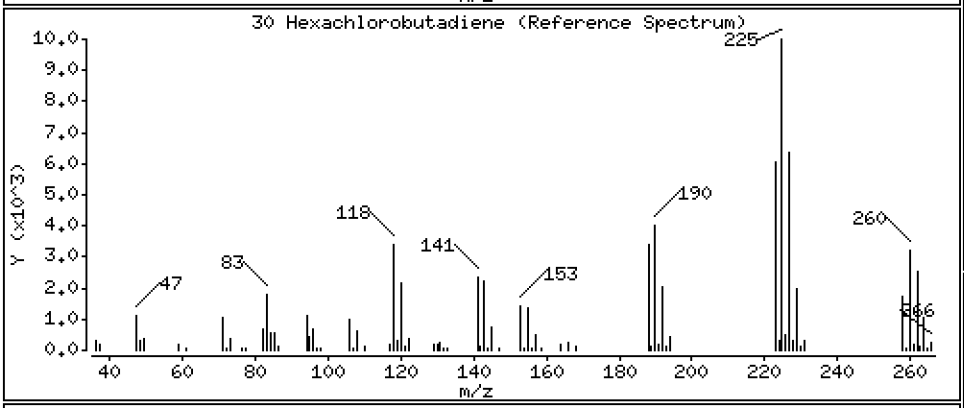
Column diameter: 0.25

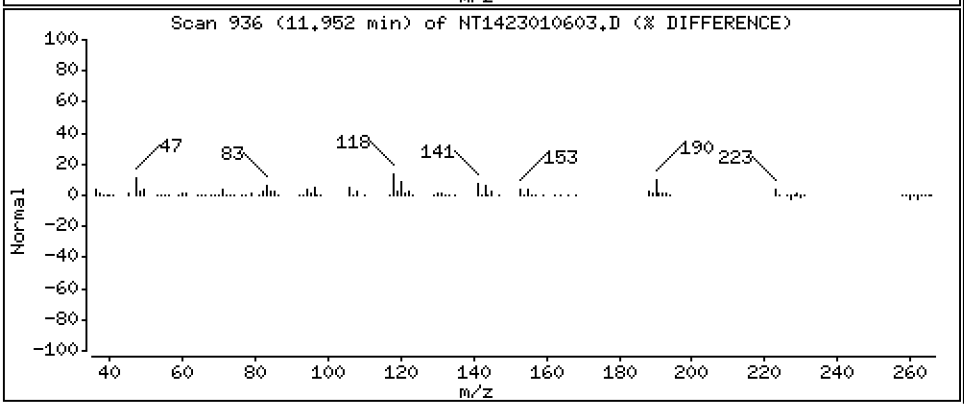
30 Hexachlorobutadiene

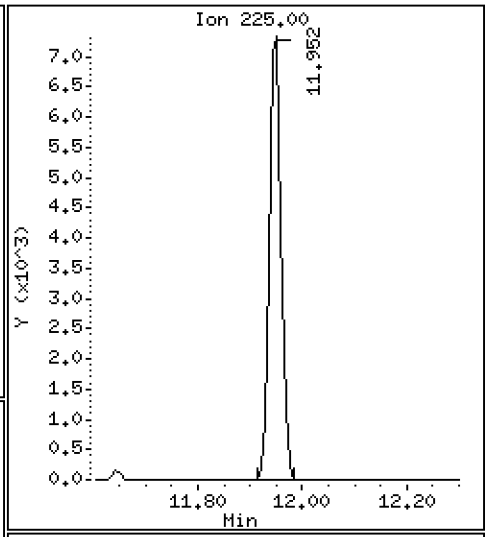
Concentration: 0.4682 ug/mL

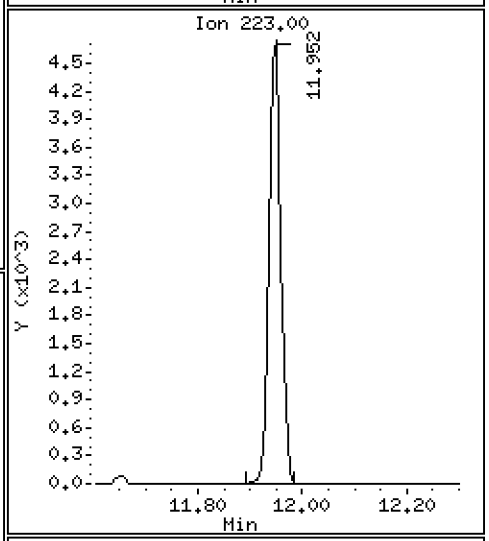


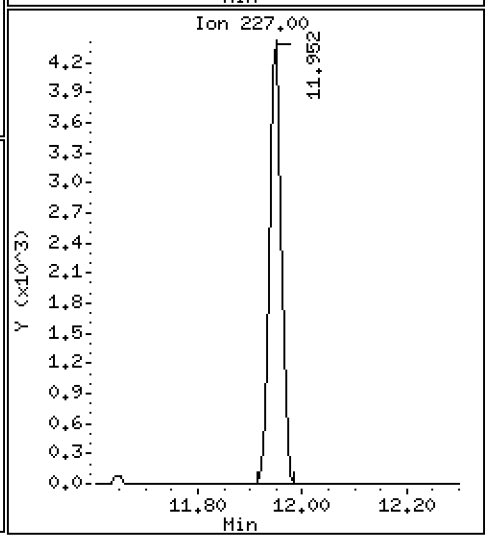












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

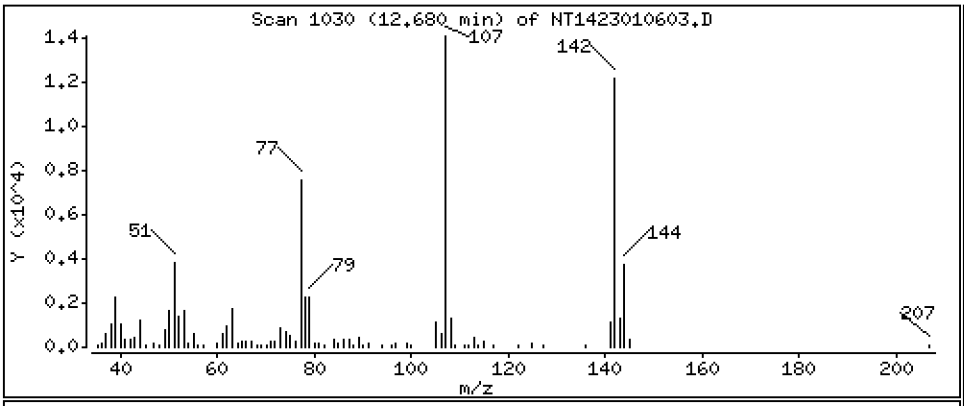
Operator: VTS

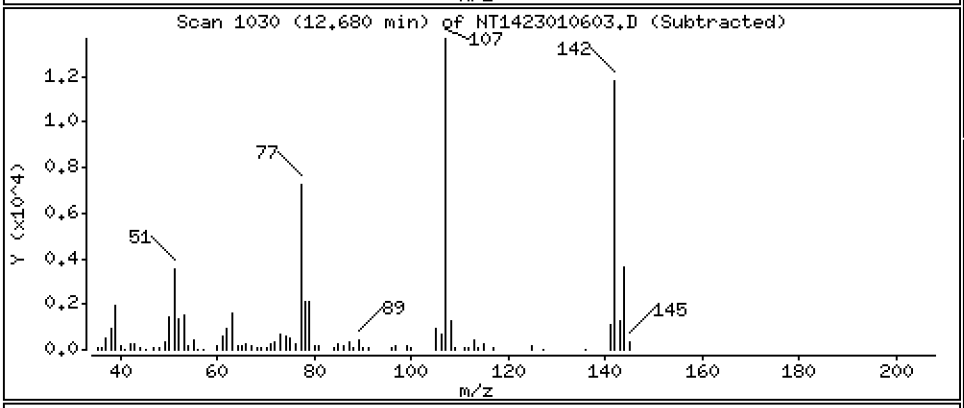
Column phase: ZB-5msi

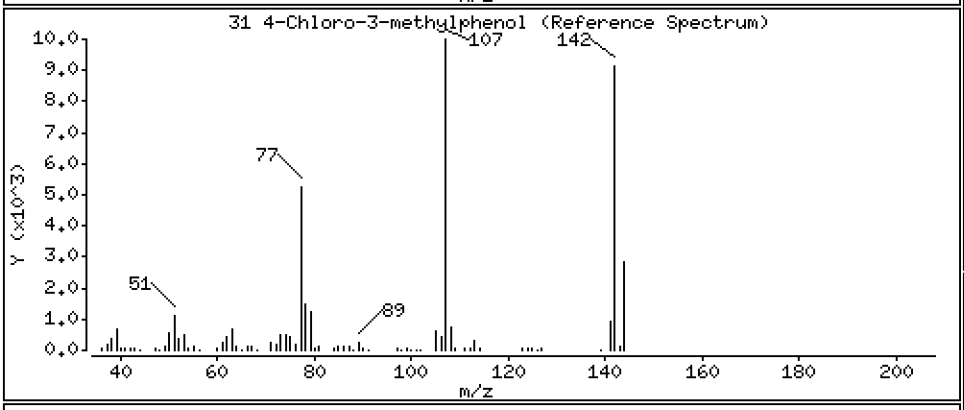
Column diameter: 0.25

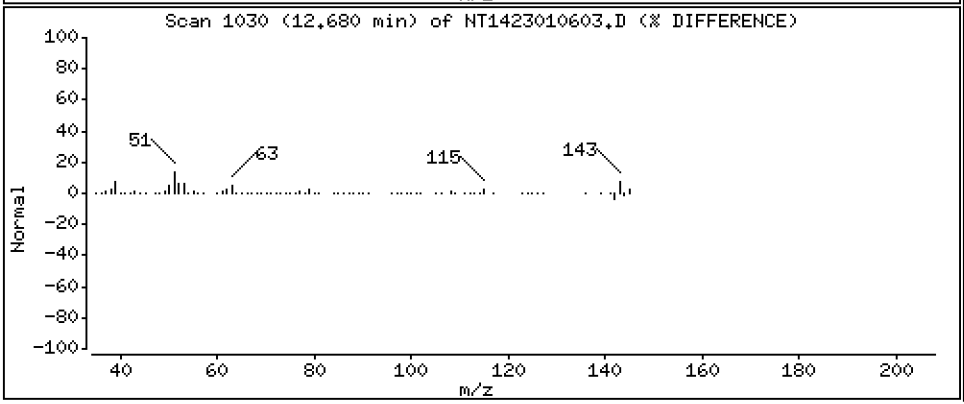
31 4-Chloro-3-methylphenol

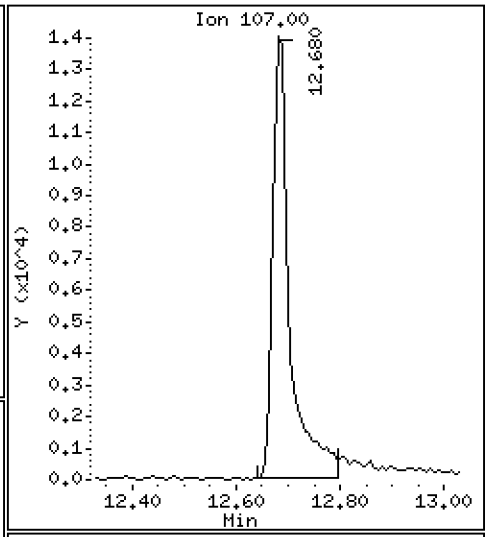
Concentration: 0.7149 ug/mL

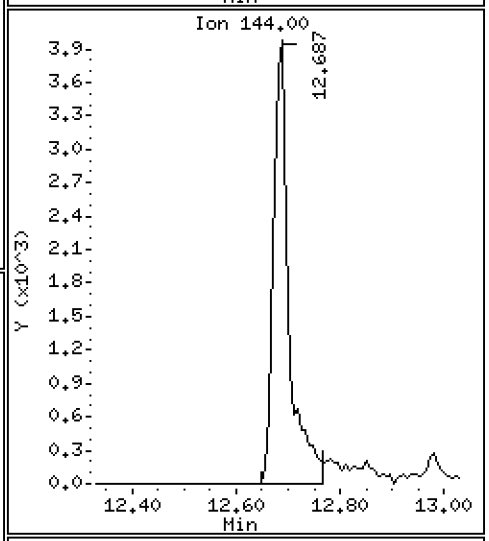


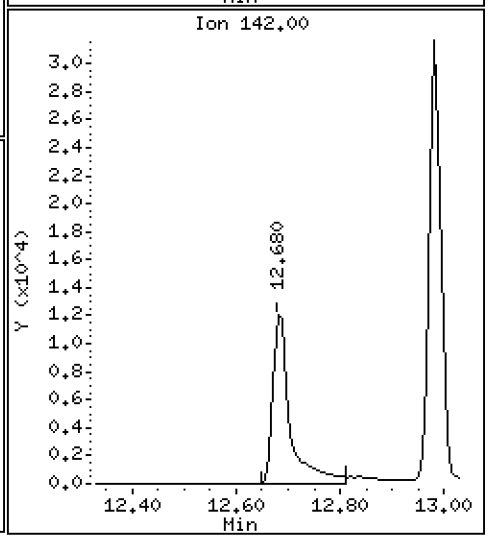












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

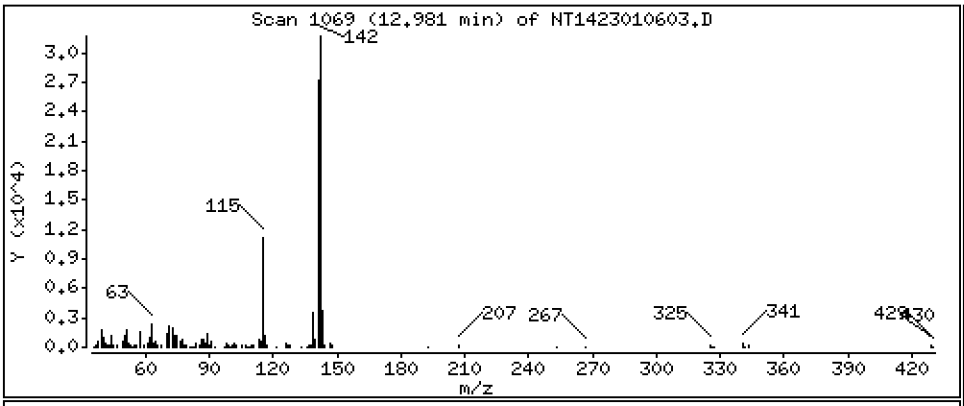
Operator: VTS

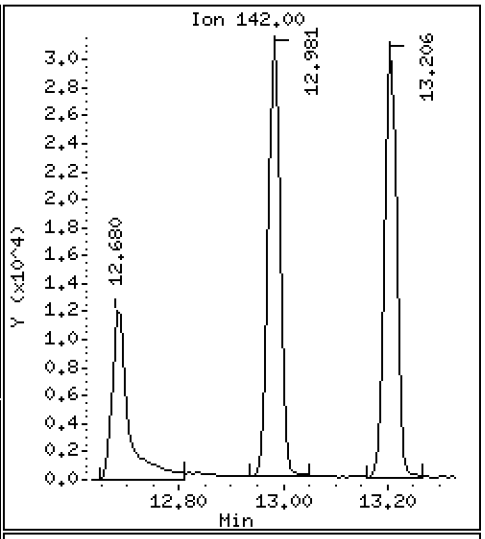
Column phase: ZB-5msi

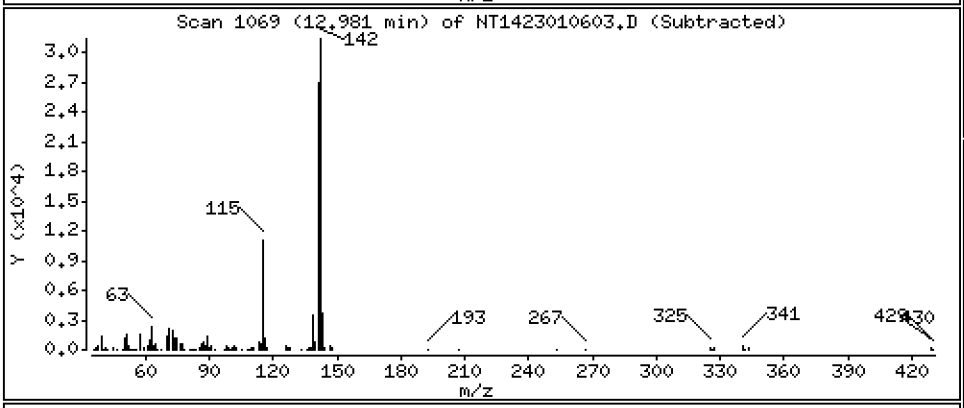
Column diameter: 0.25

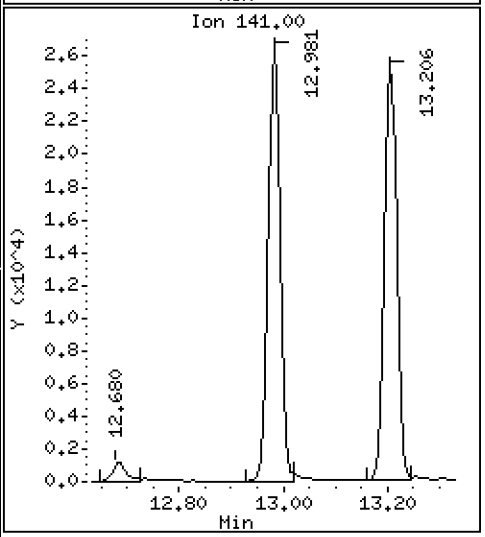
32 2-Methylnaphthalene

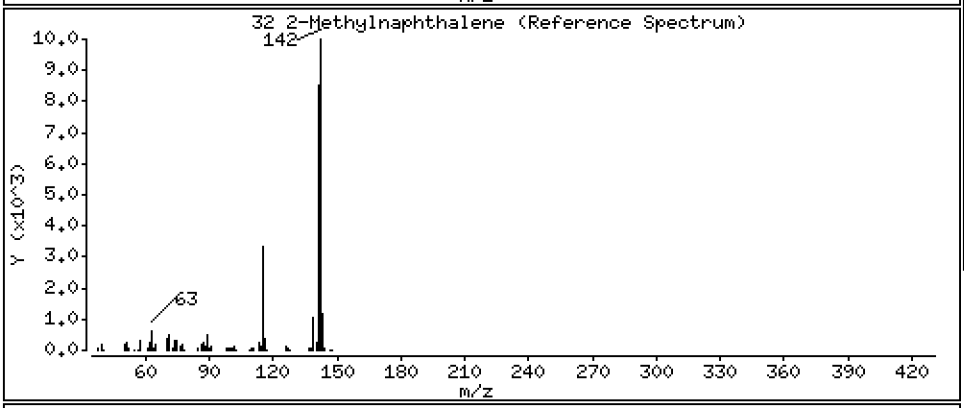
Concentration: 0.4276 ug/mL

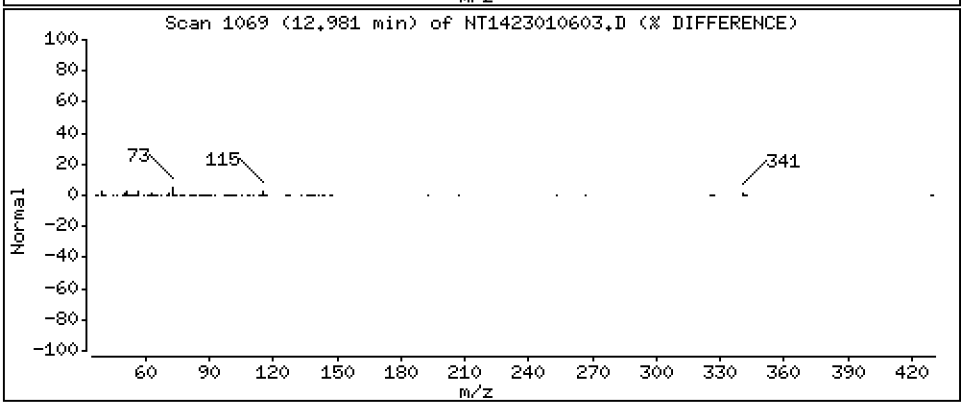












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

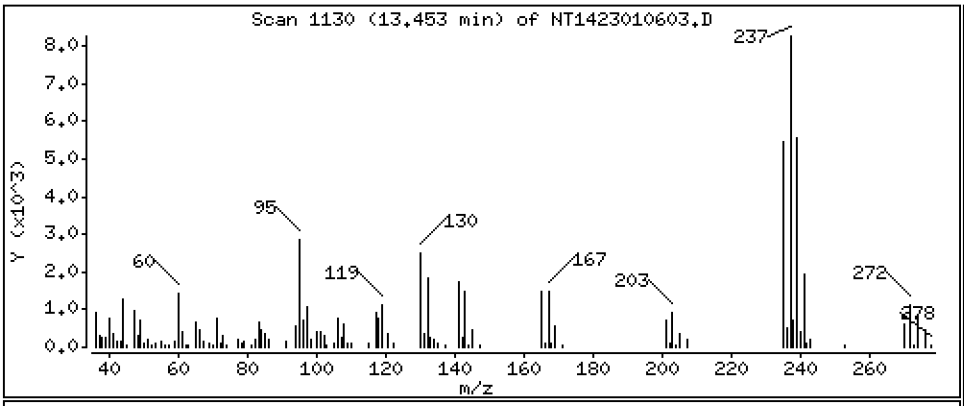
Operator: VTS

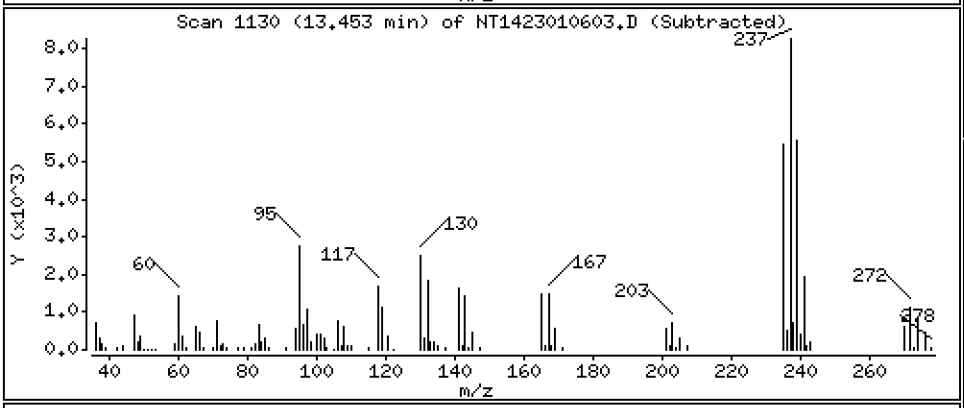
Column phase: ZB-5msi

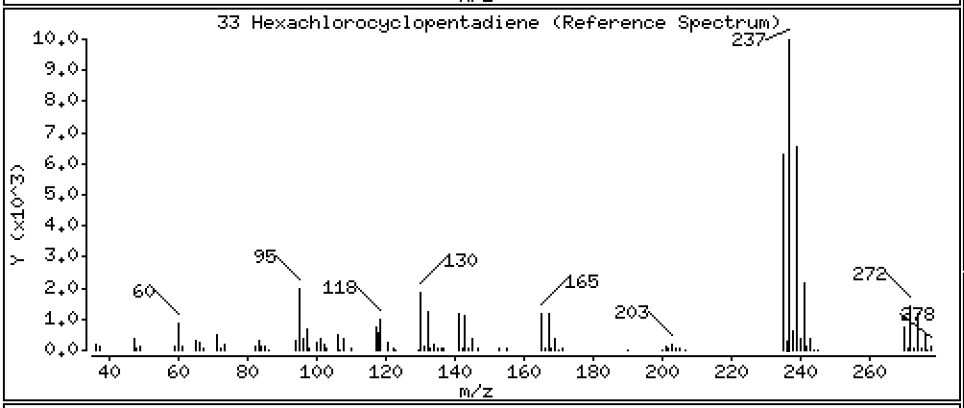
Column diameter: 0.25

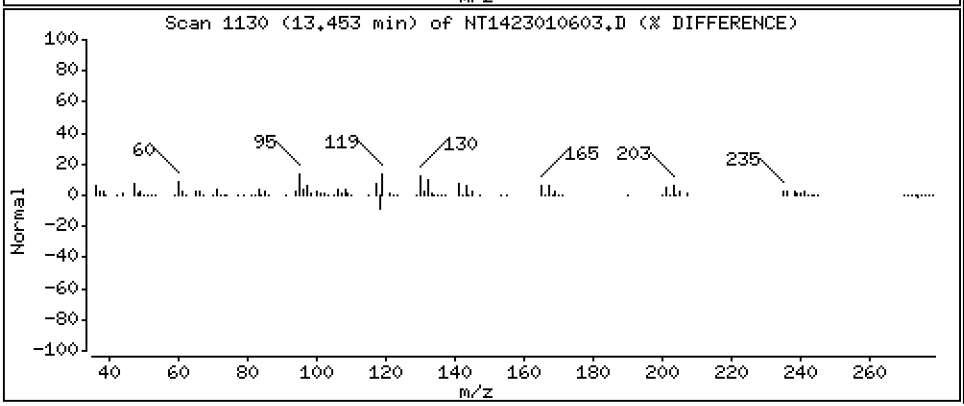
33 Hexachlorocyclopentadiene

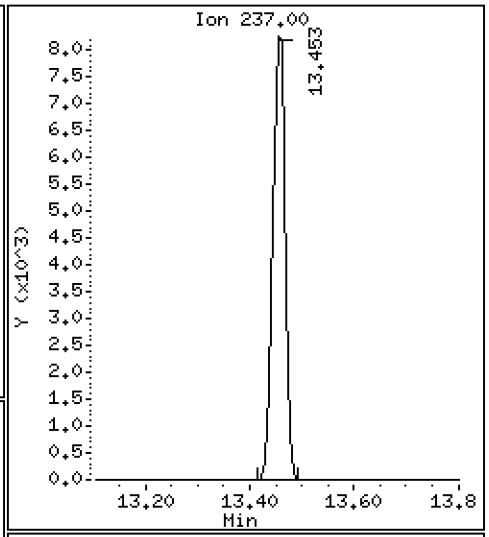
Concentration: 0.5629 ug/mL

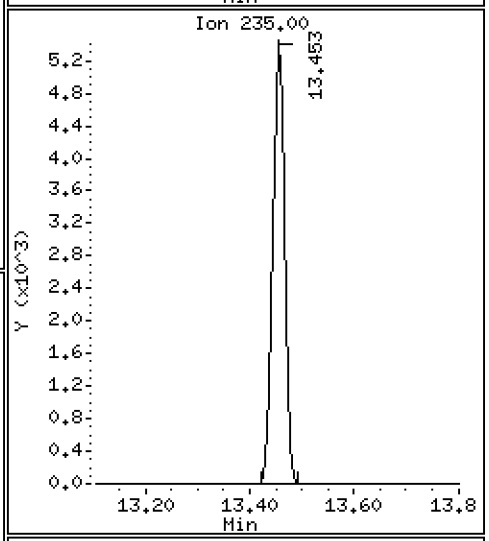


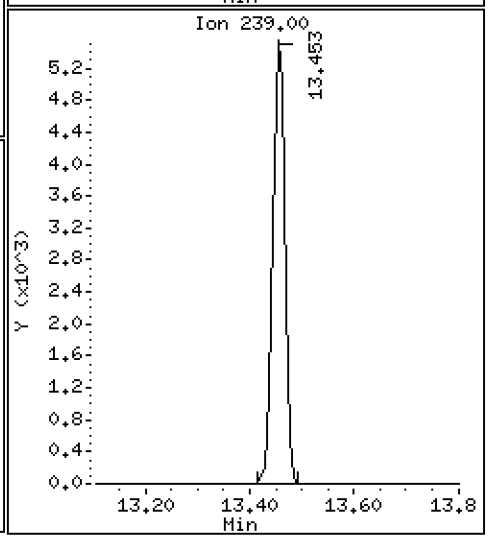












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

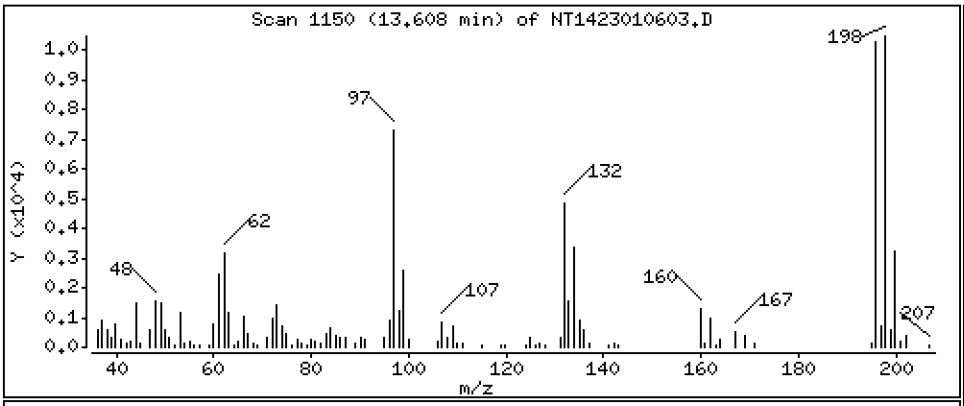
Operator: VTS

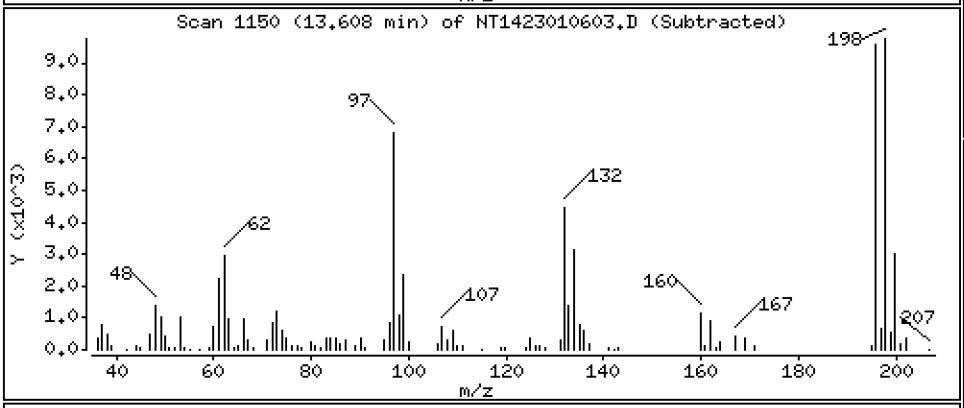
Column phase: ZB-5msi

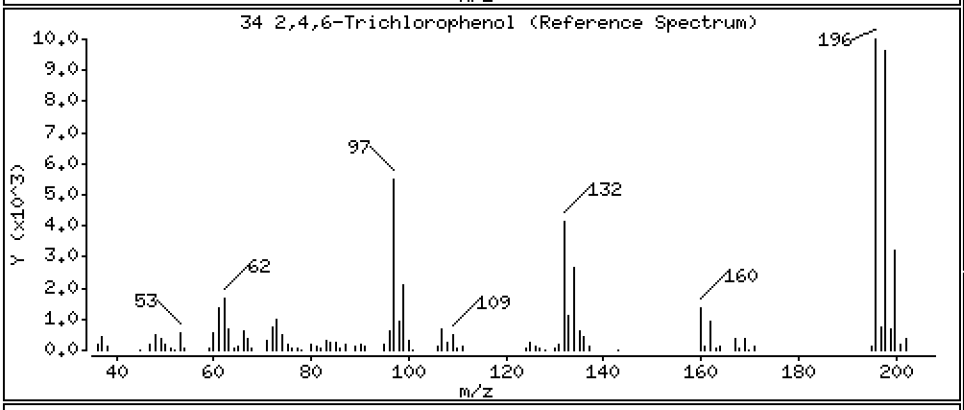
Column diameter: 0.25

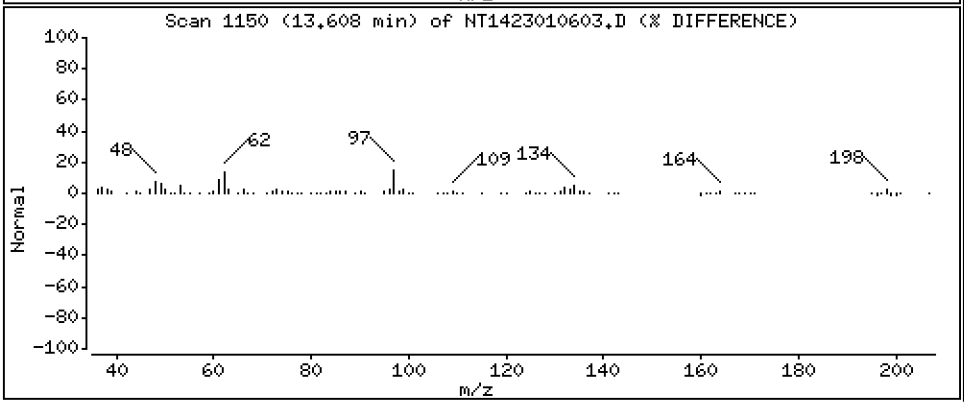
34 2,4,6-Trichlorophenol

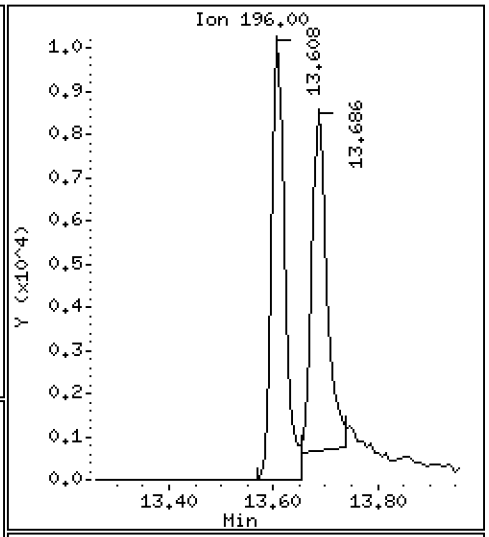
Concentration: 0.6842 ug/mL

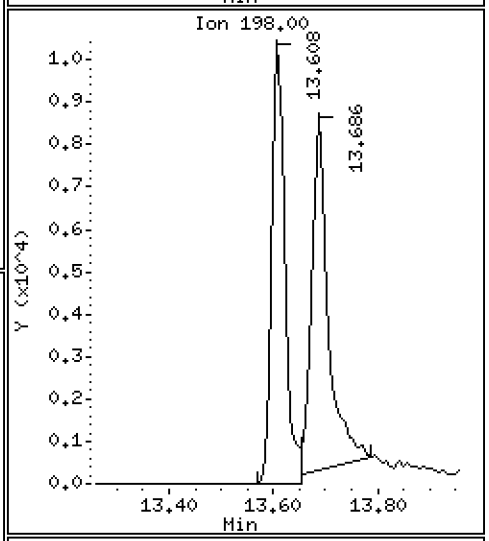


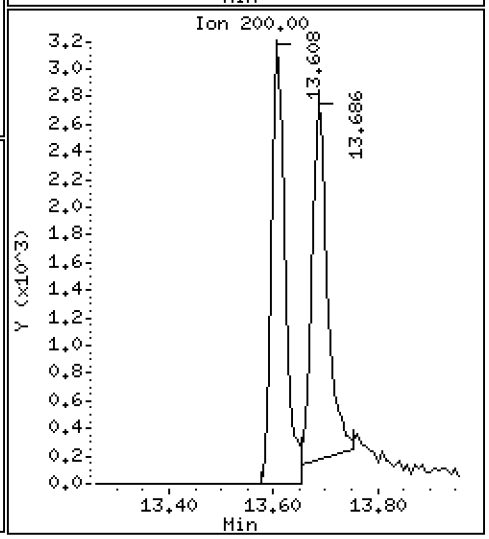












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

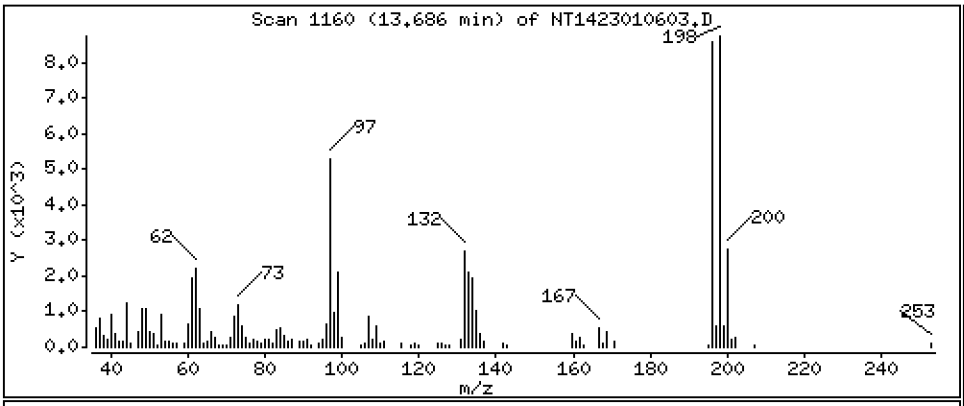
Operator: VTS

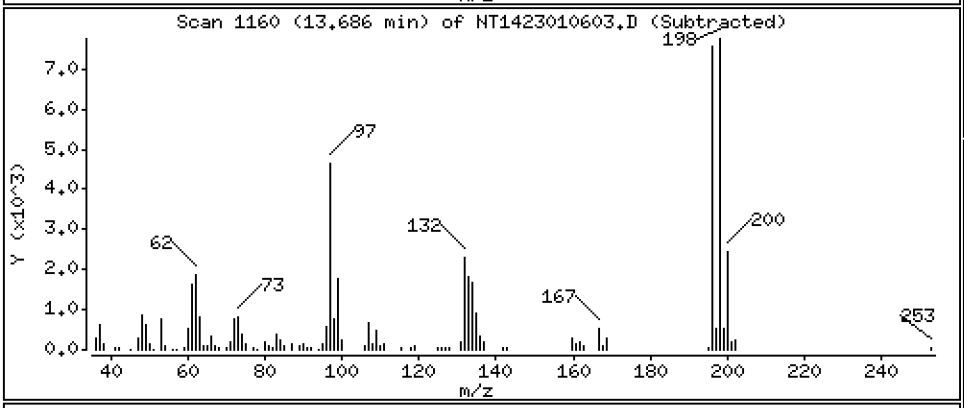
Column phase: ZB-5msi

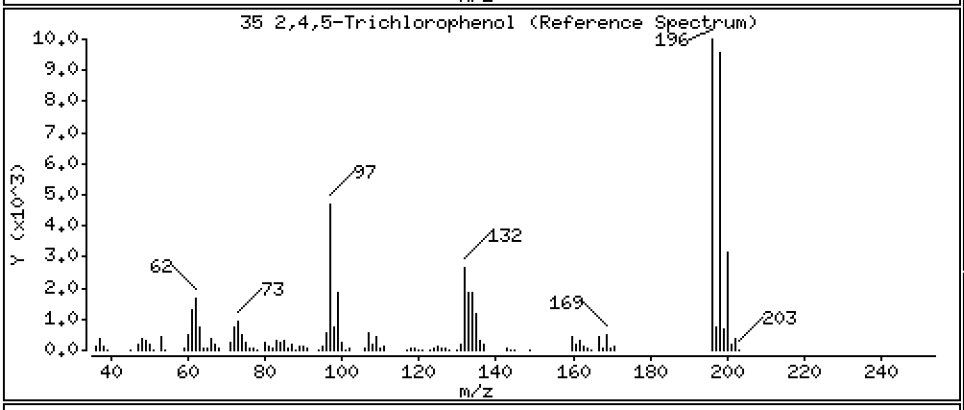
Column diameter: 0.25

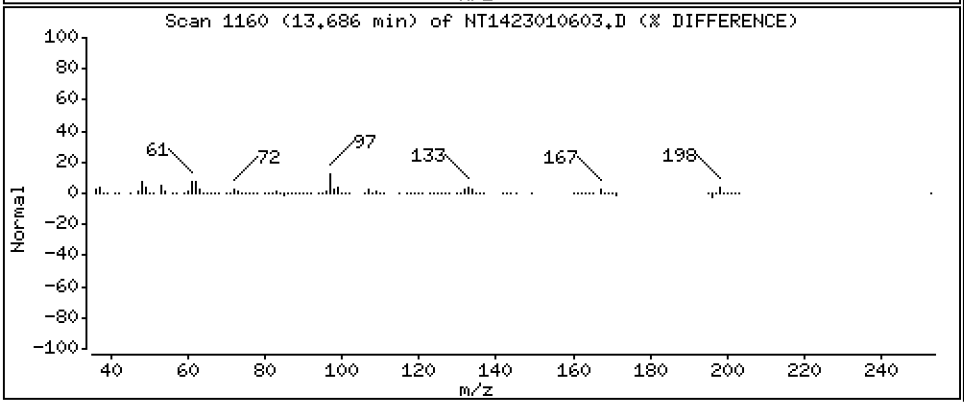
35 2,4,5-Trichlorophenol

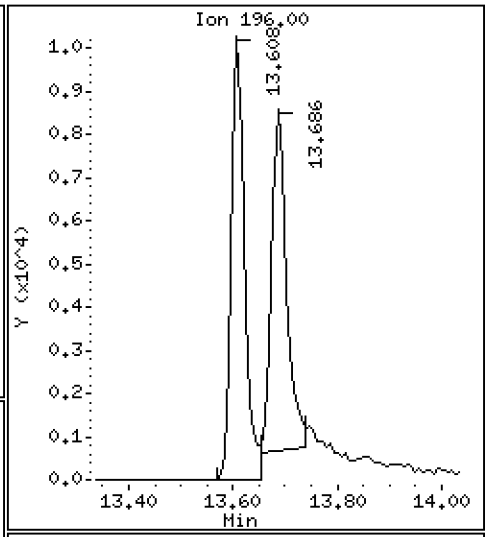
Concentration: 0.5265 ug/mL

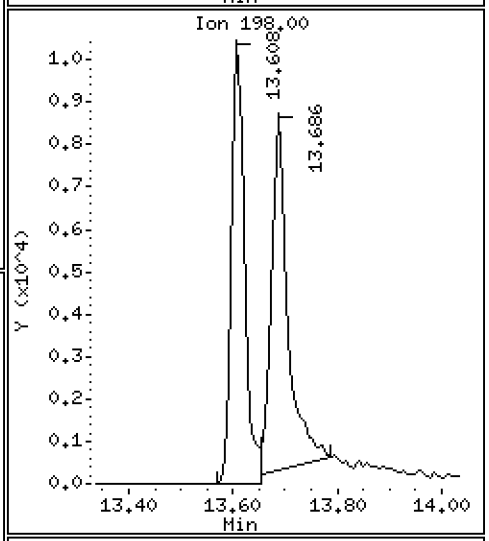


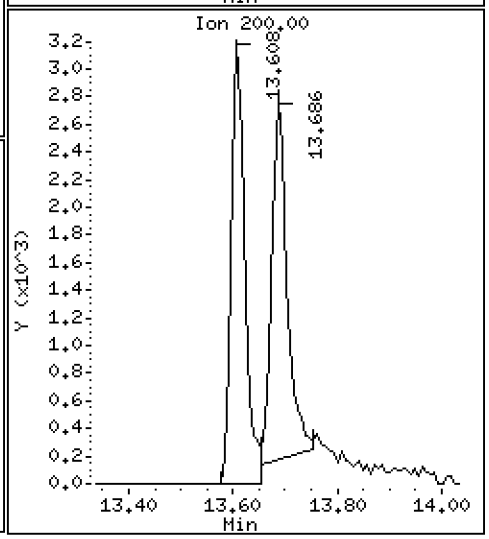












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

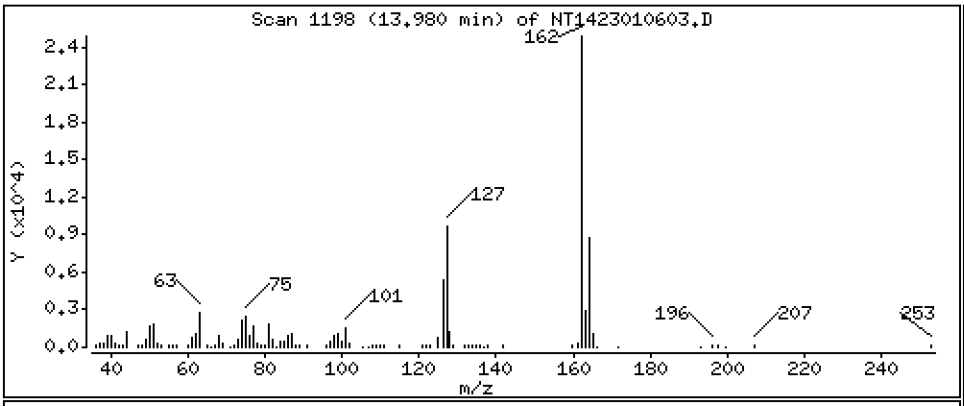
Operator: VTS

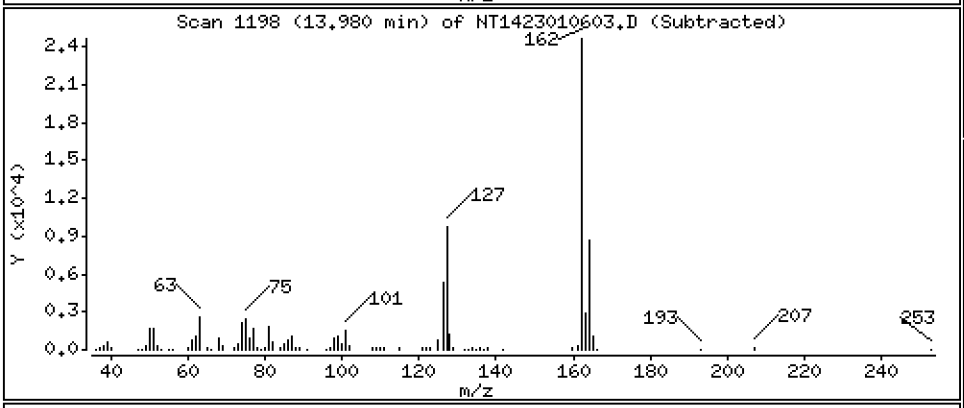
Column phase: ZB-5msi

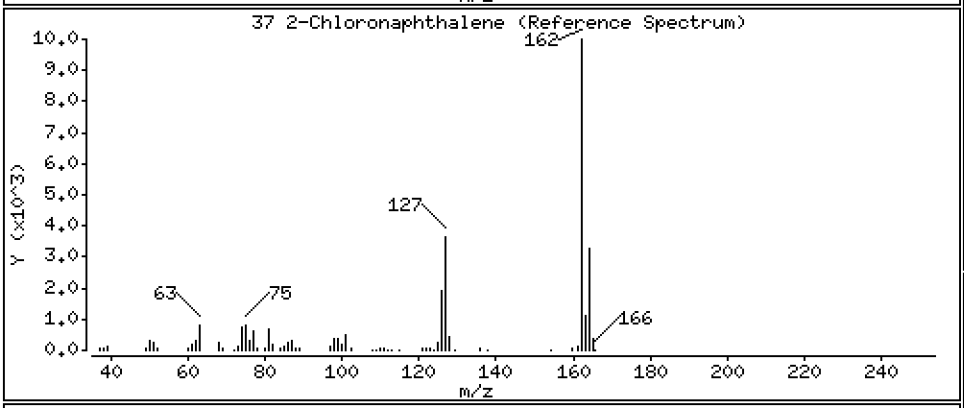
Column diameter: 0.25

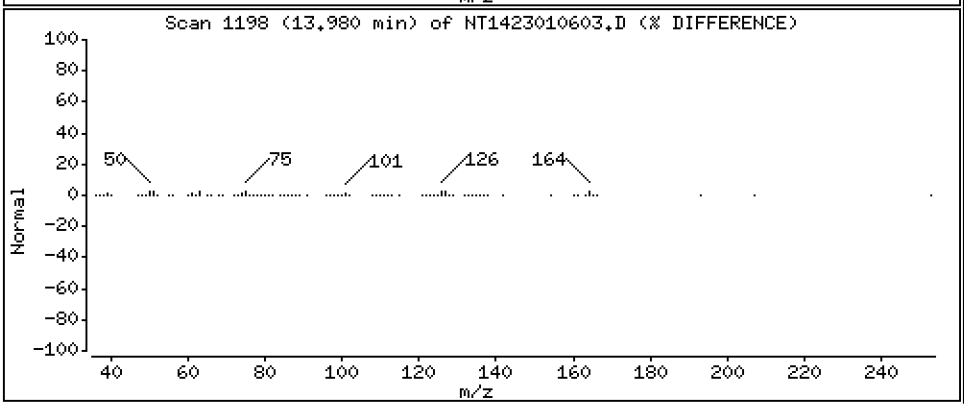
37 2-Chloronaphthalene

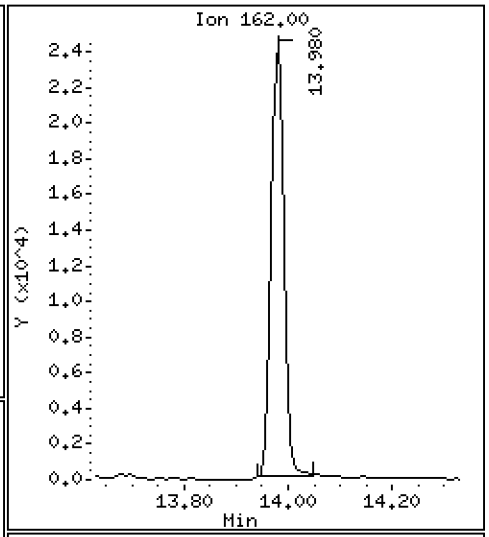
Concentration: 0.4535 ug/mL

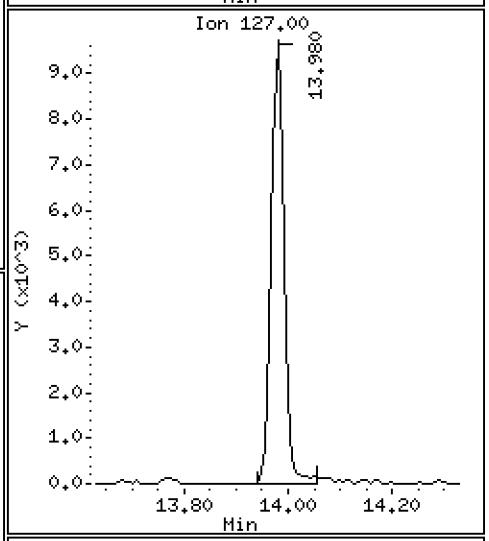


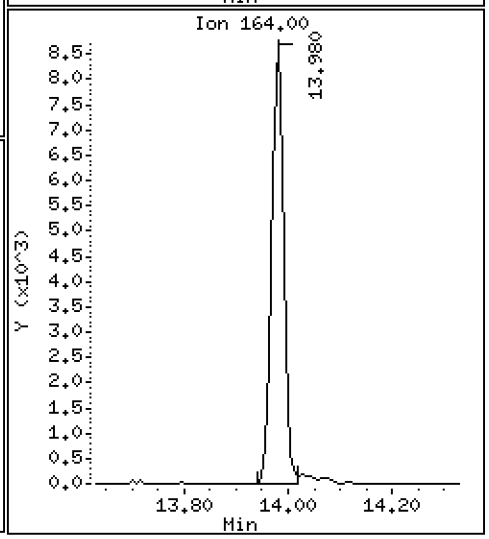












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

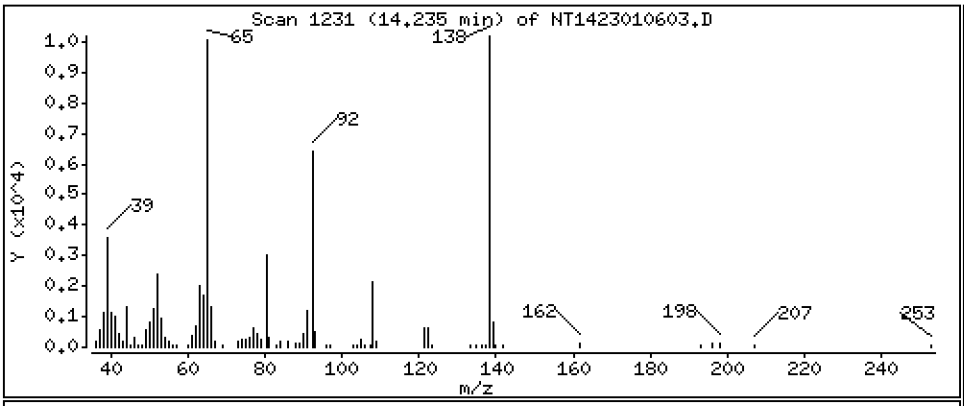
Operator: VTS

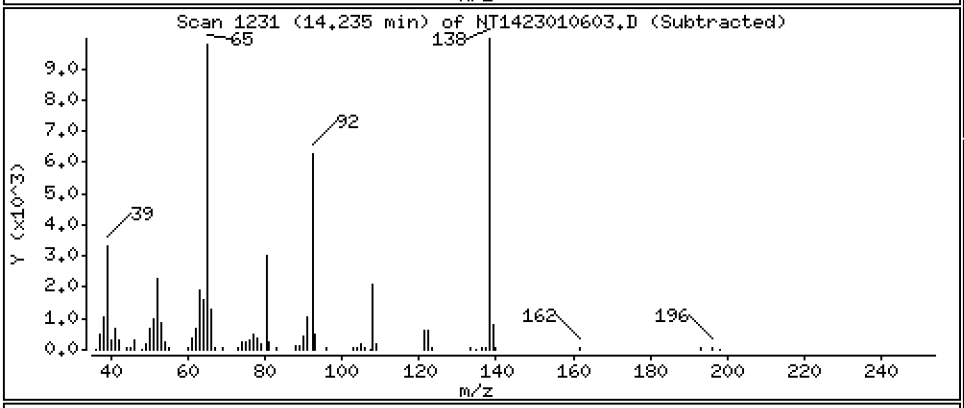
Column phase: ZB-5msi

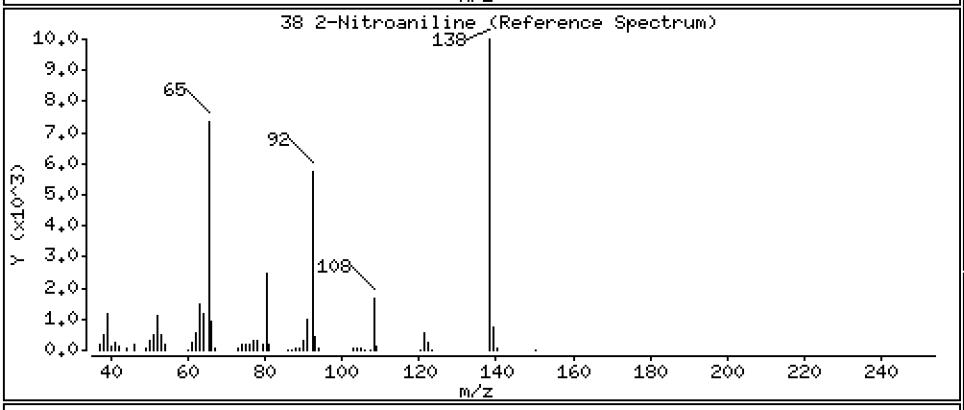
Column diameter: 0.25

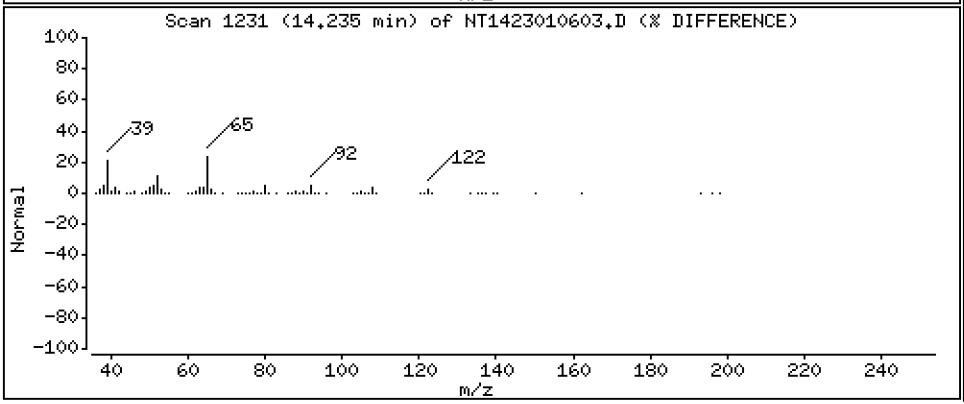
38 2-Nitroaniline

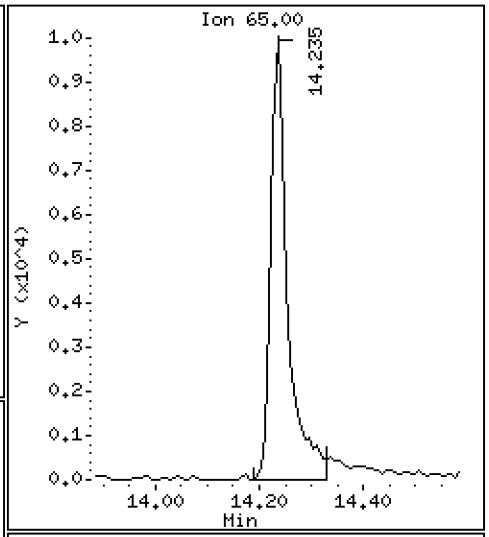
Concentration: 0.9526 ug/mL

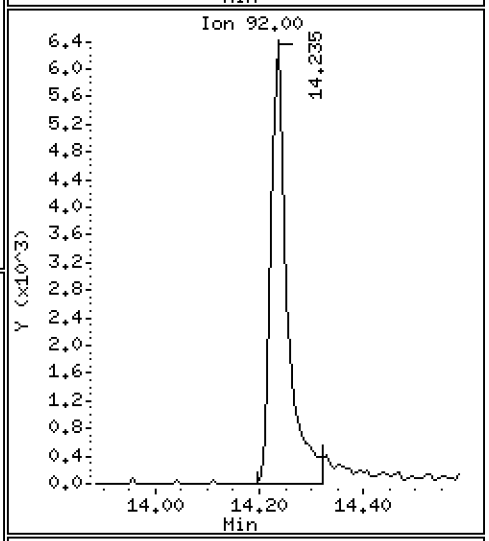


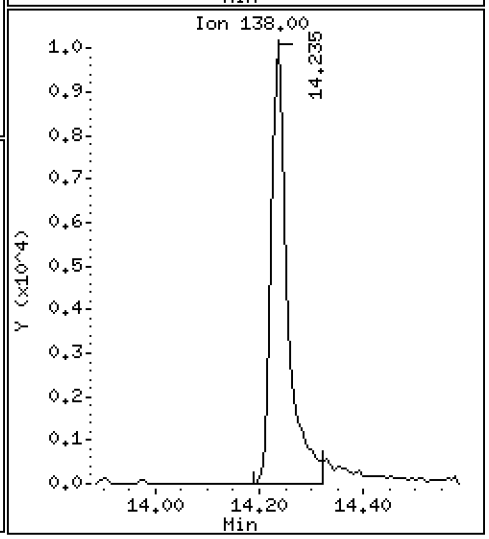












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

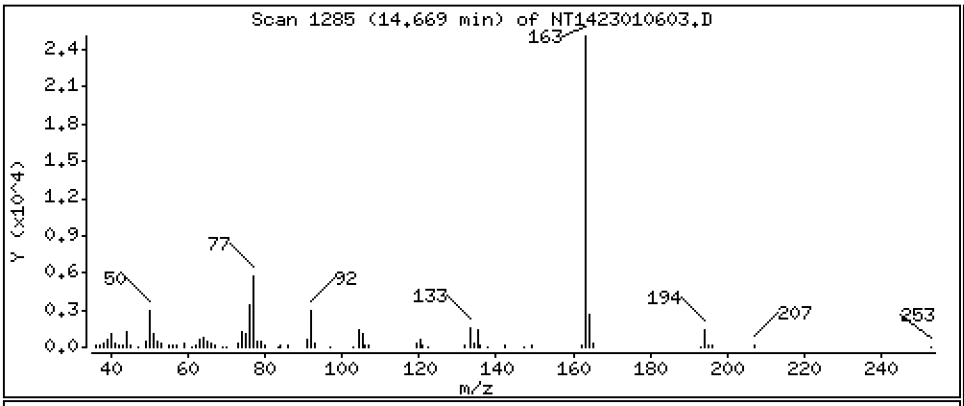
Operator: VTS

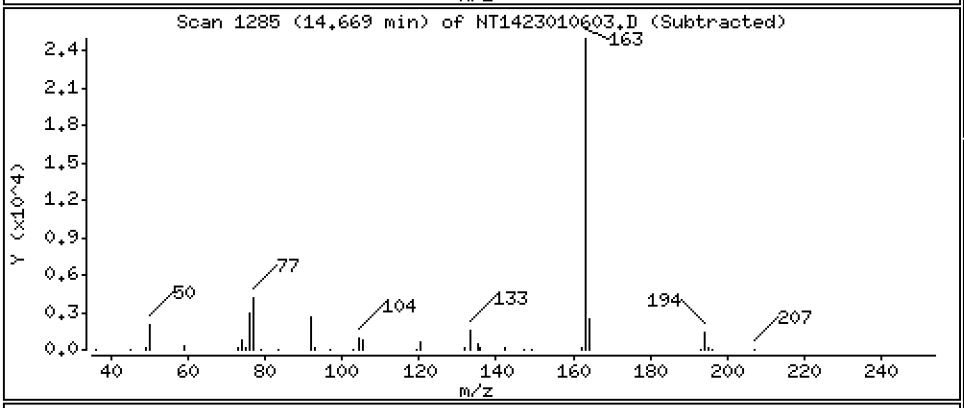
Column phase: ZB-5msi

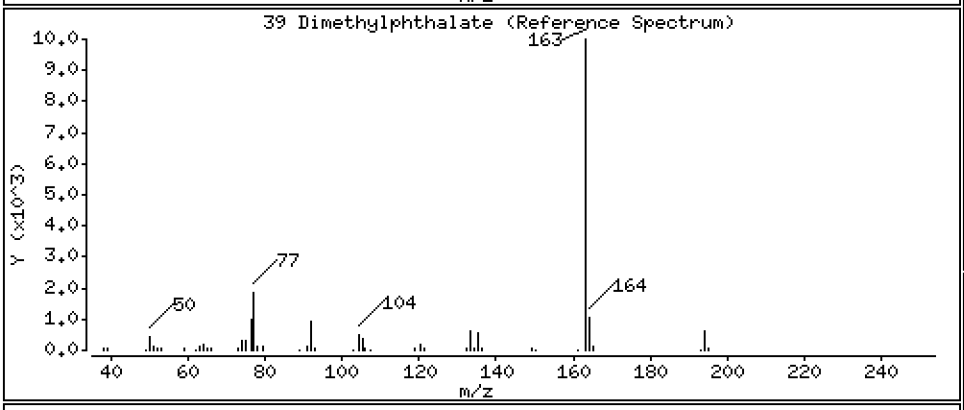
Column diameter: 0.25

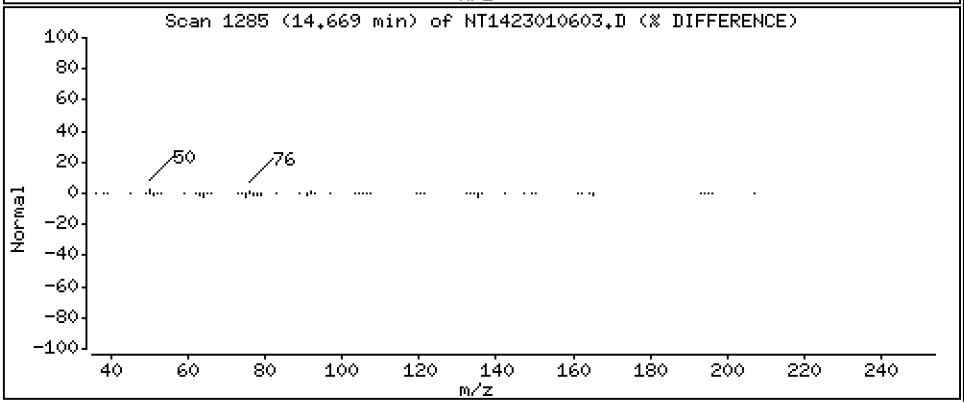
39 Dimethylphthalate

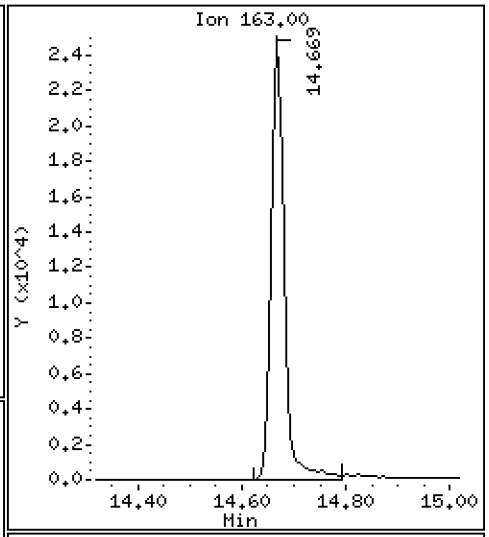
Concentration: 0.4836 ug/mL

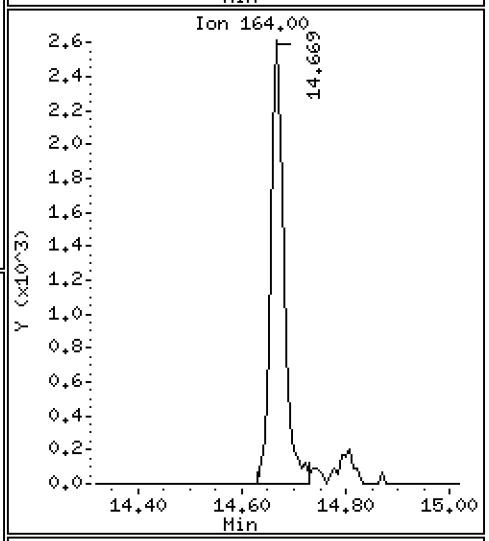


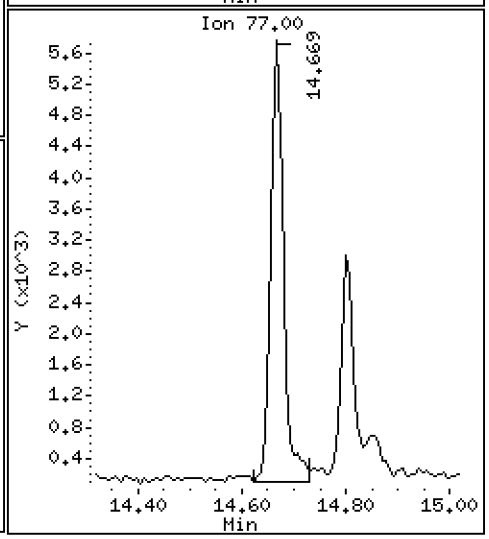












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

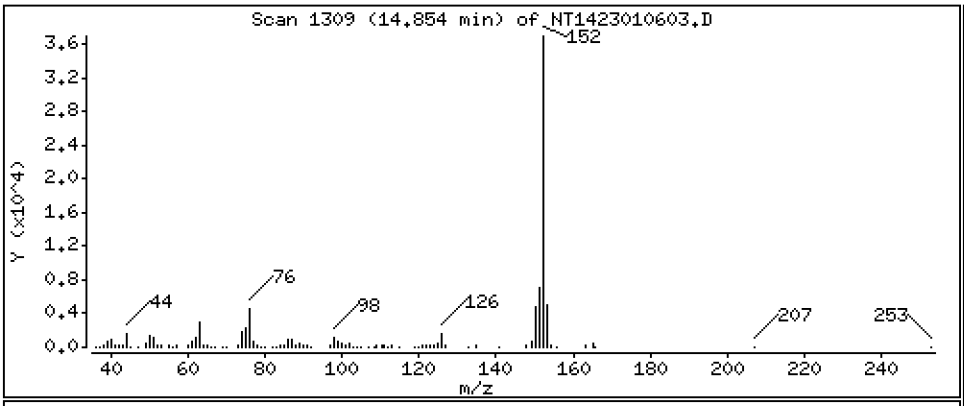
Operator: VTS

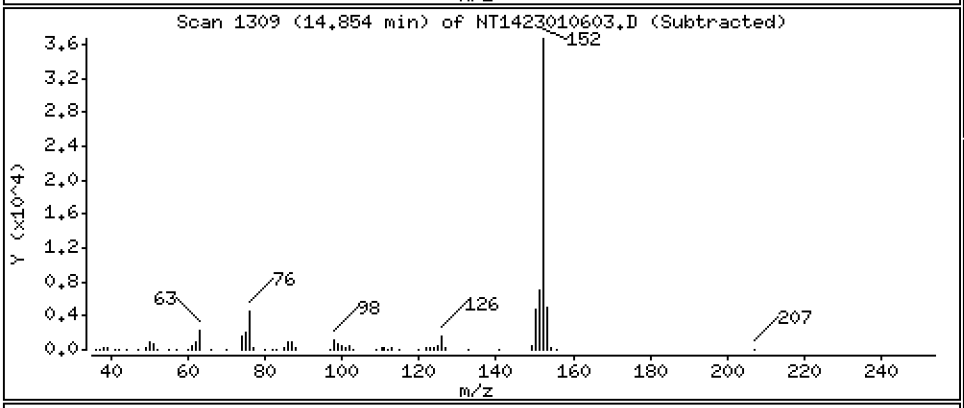
Column phase: ZB-5msi

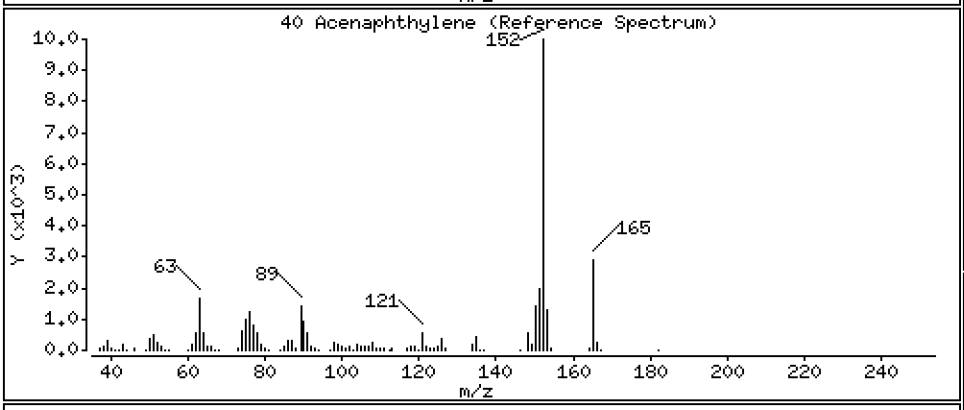
Column diameter: 0.25

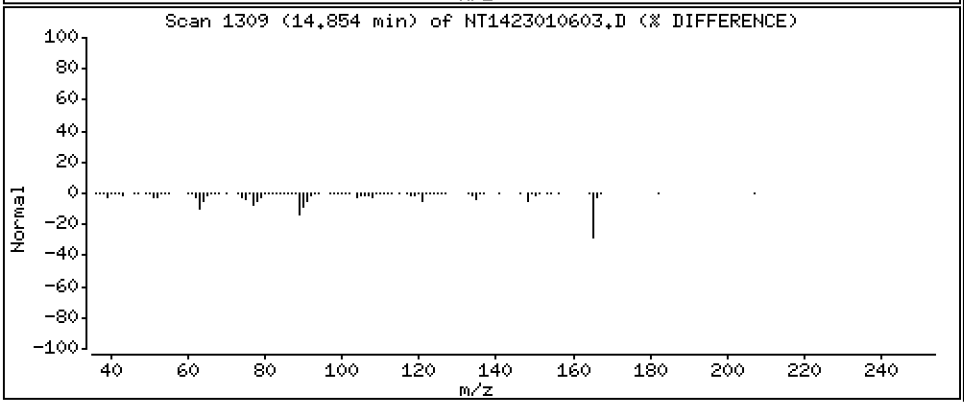
40 Acenaphthylene

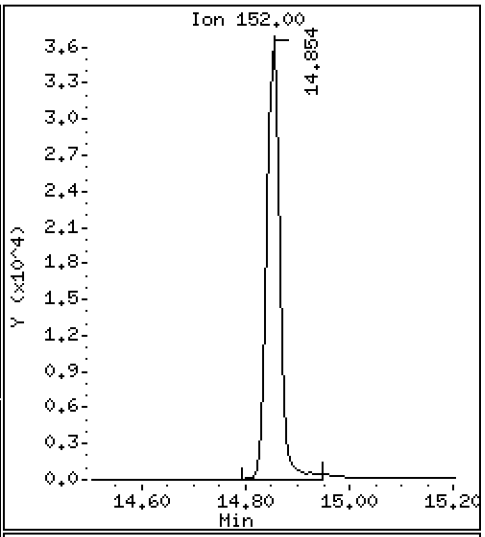
Concentration: 0.4635 ug/mL

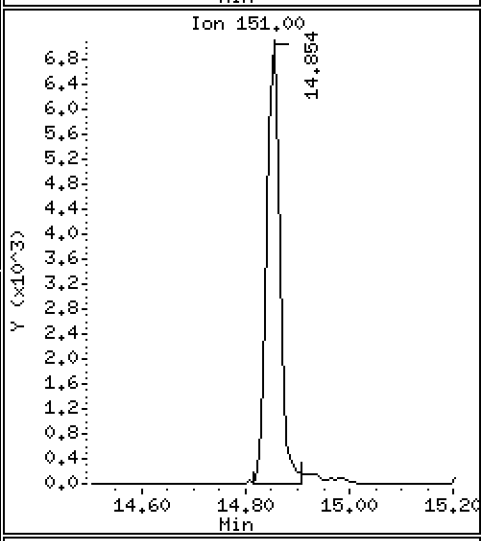


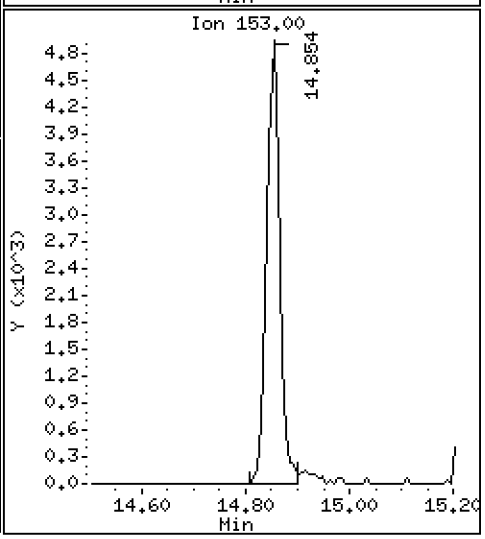












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

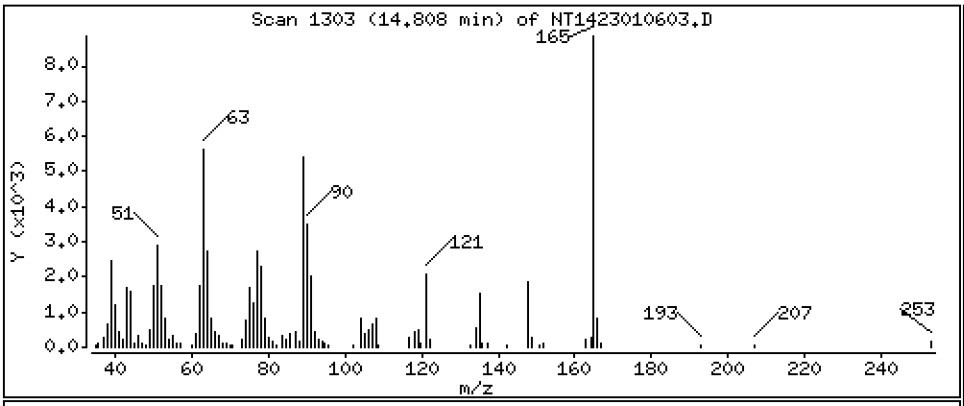
Operator: VTS

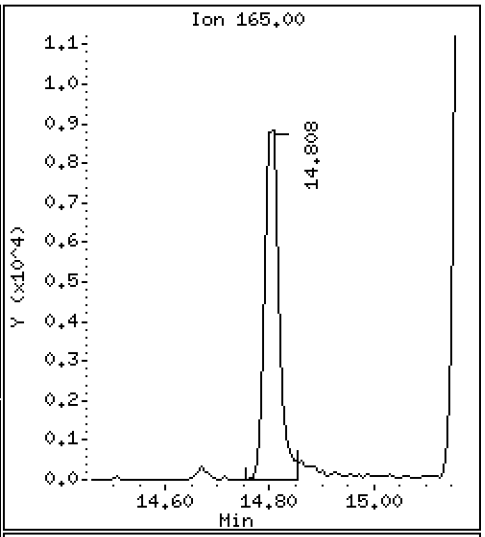
Column phase: ZB-5msi

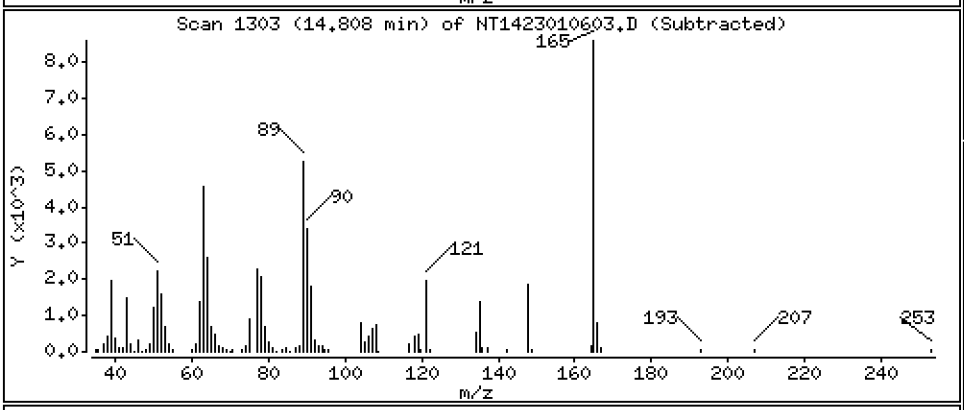
Column diameter: 0.25

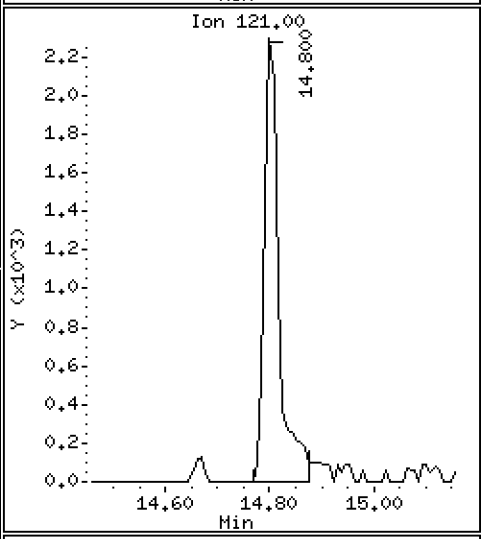
41 2,6-Dinitrotoluene

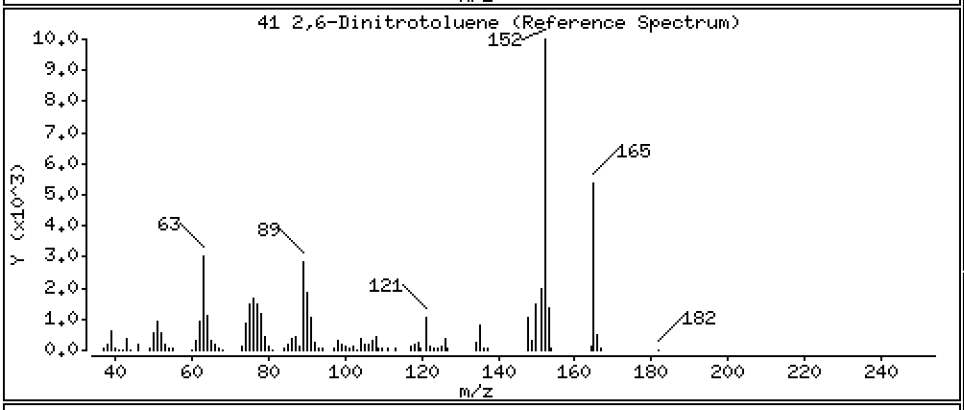
Concentration: 0.8467 ug/mL

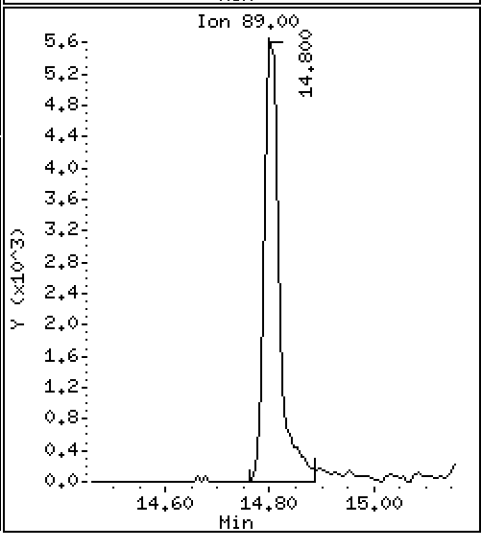


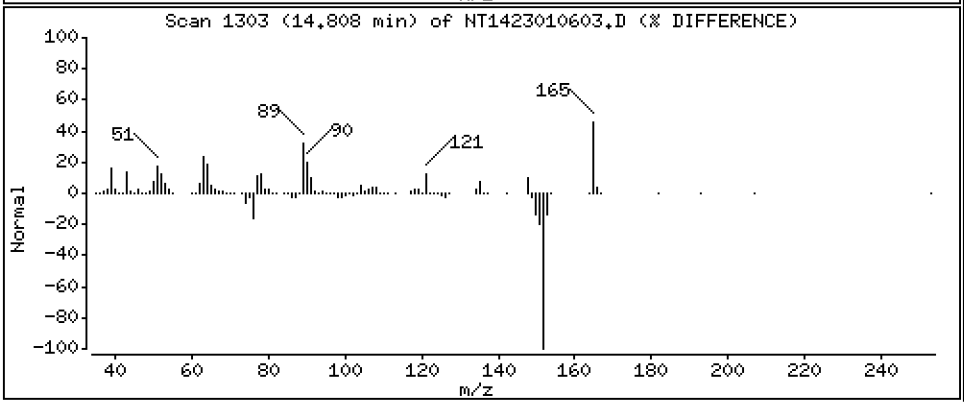












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

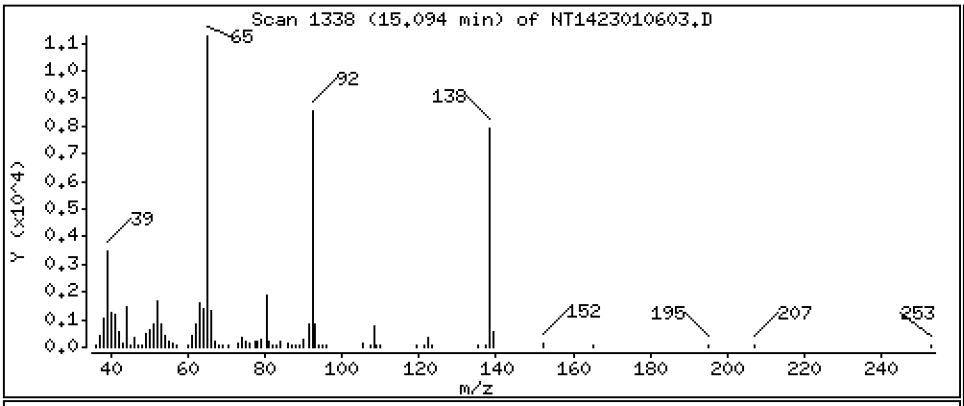
Operator: VTS

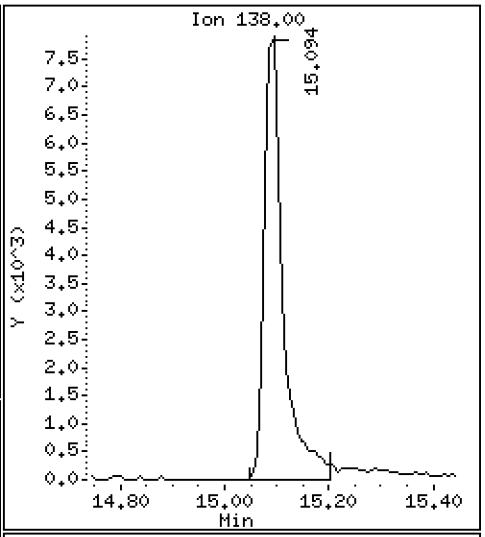
Column phase: ZB-5msi

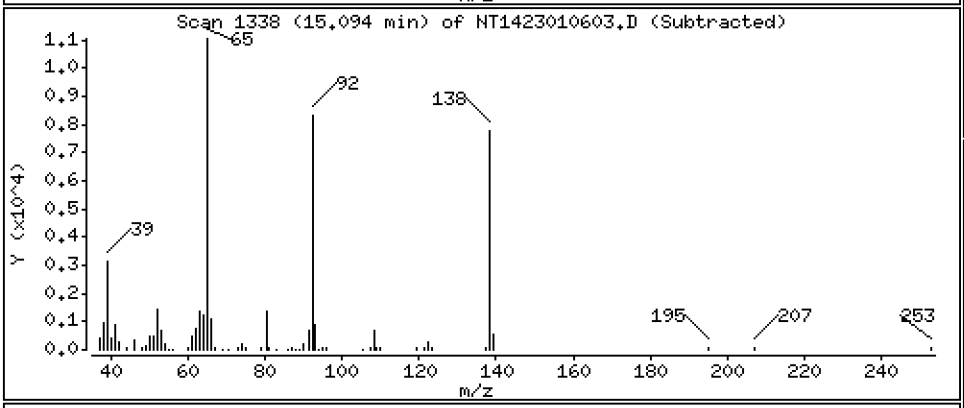
Column diameter: 0.25

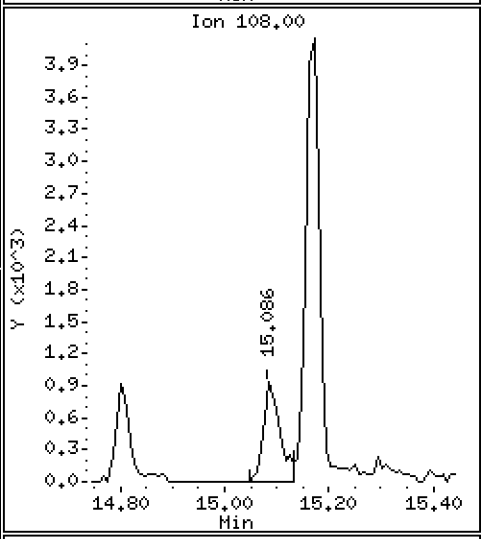
43 3-Nitroaniline

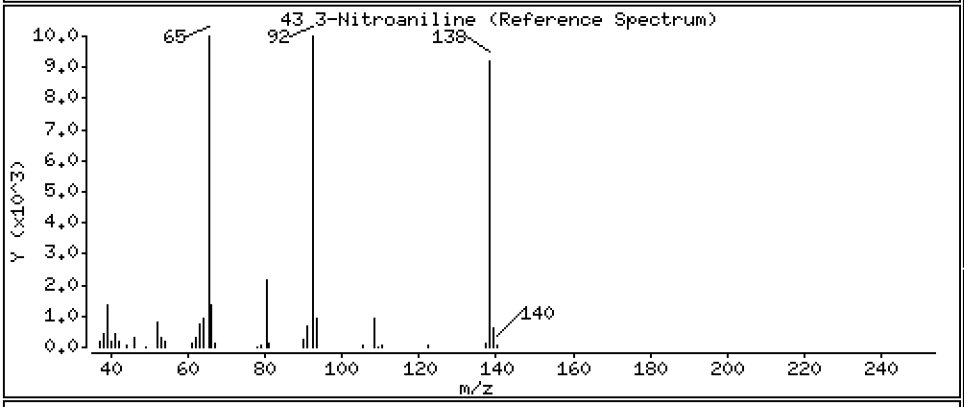
Concentration: 0.8220 ug/mL

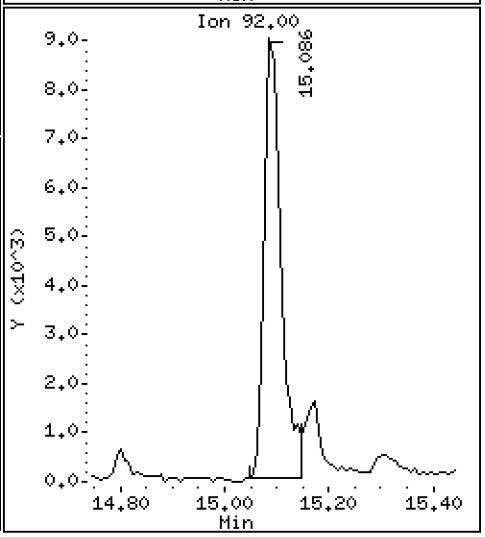


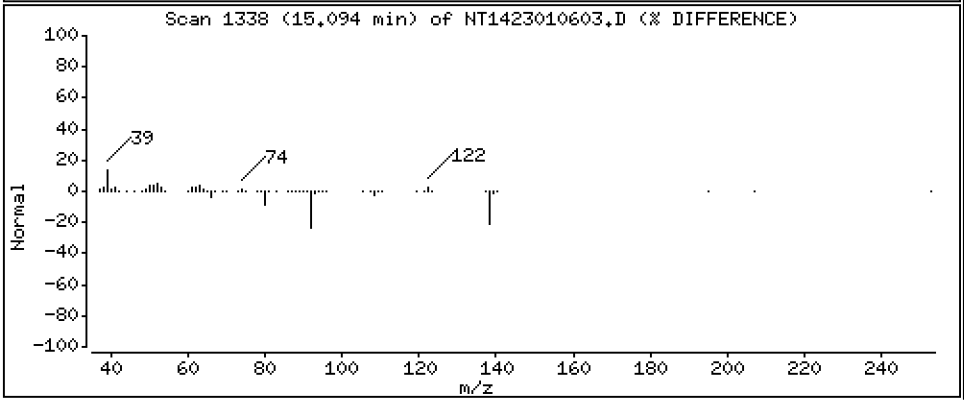












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

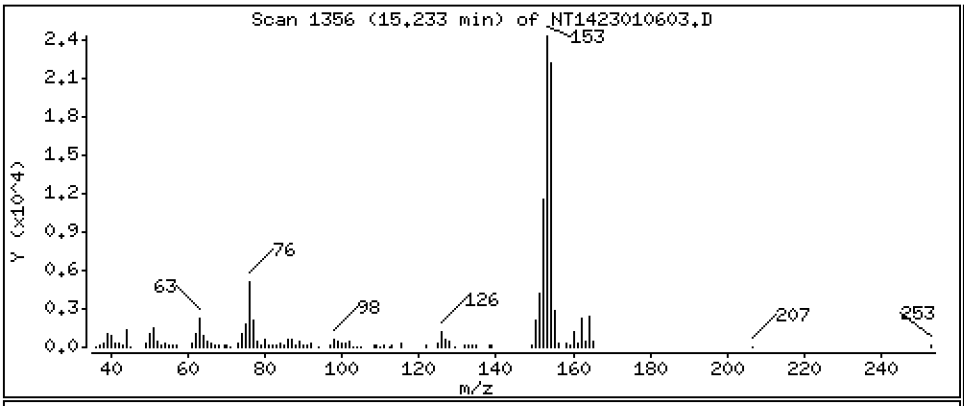
Operator: VTS

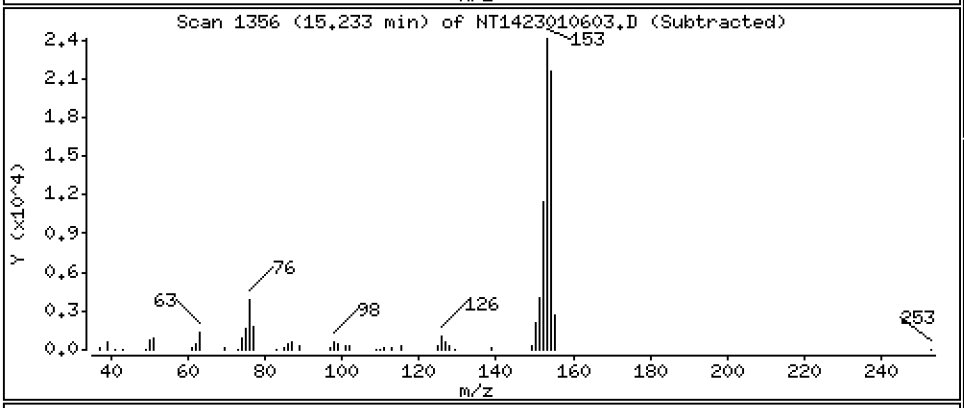
Column phase: ZB-5msi

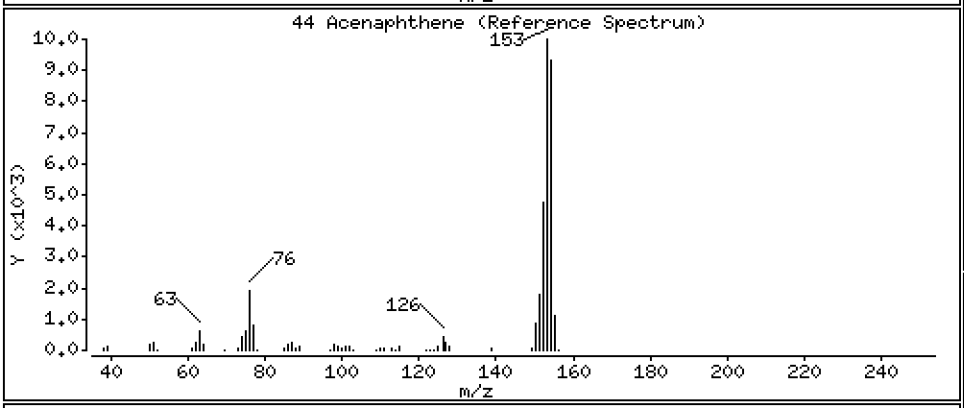
Column diameter: 0.25

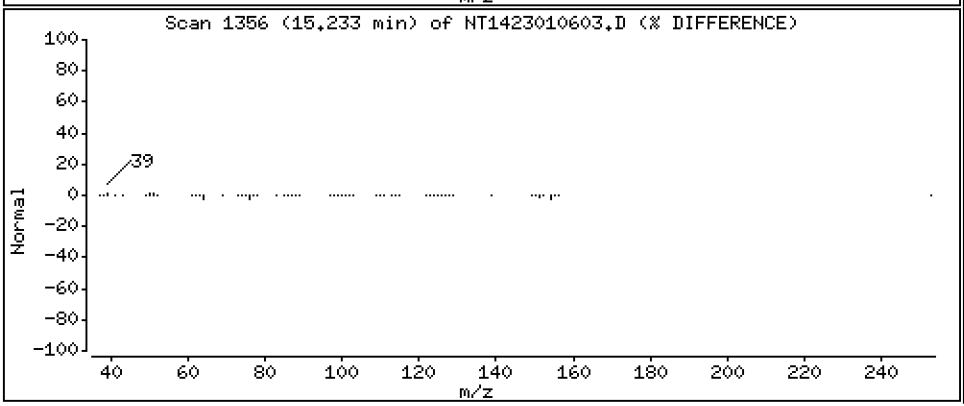
44 Acenaphthene

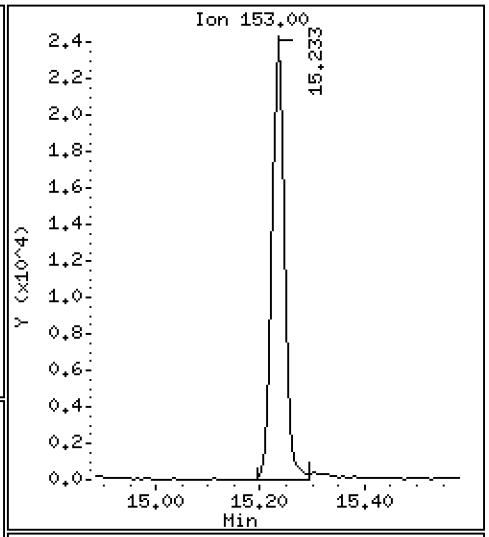
Concentration: 0.4698 ug/mL

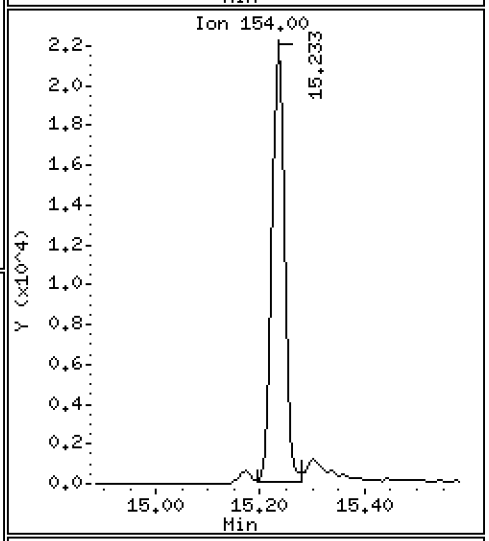


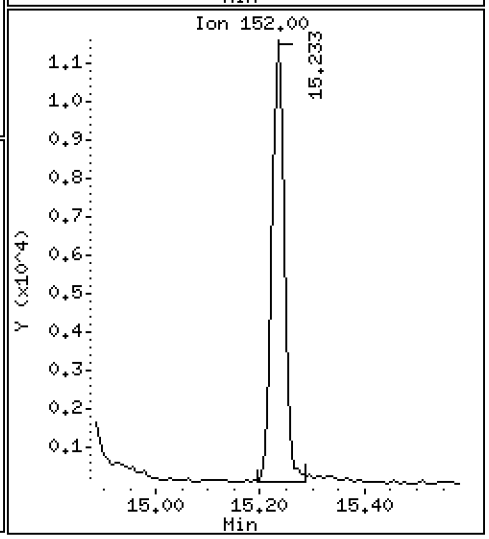












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

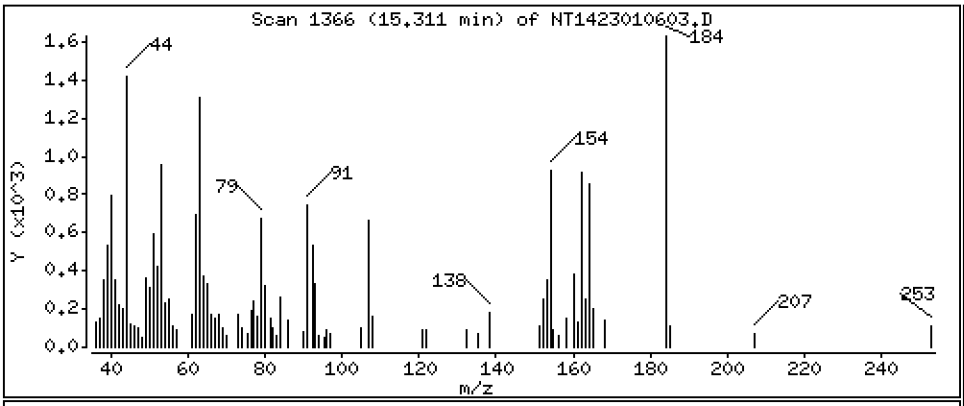
Operator: VTS

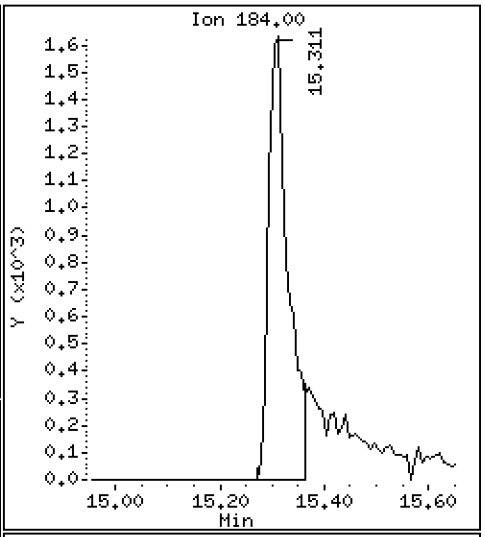
Column phase: ZB-5msi

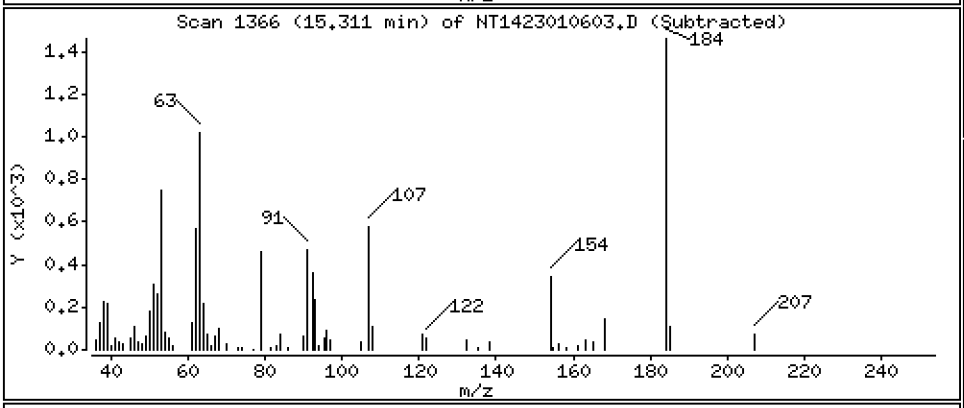
Column diameter: 0.25

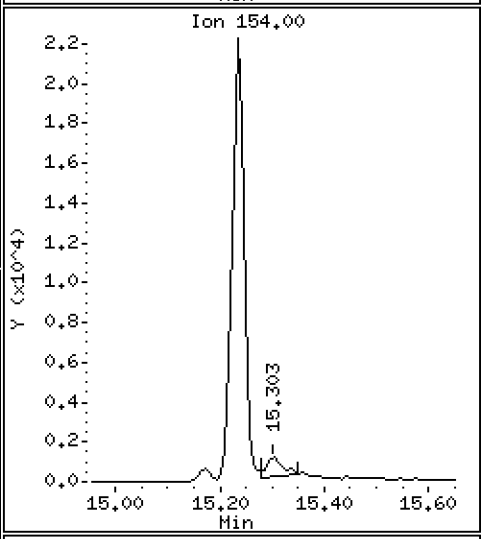
45 2,4-Dinitrophenol

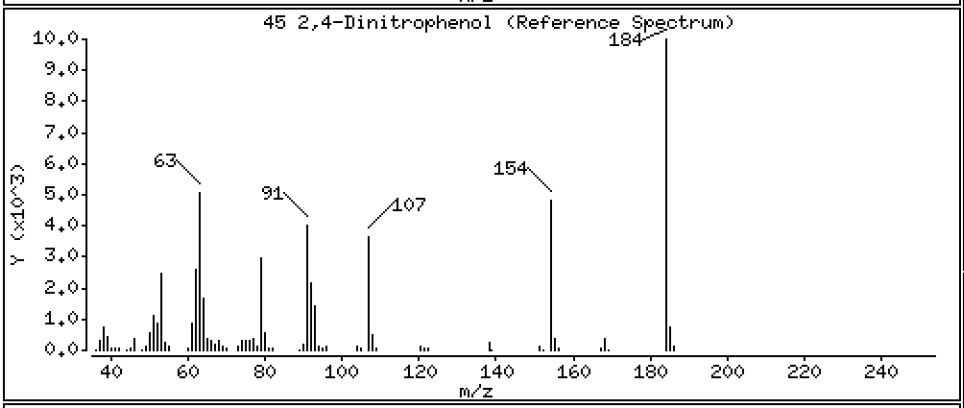
Concentration: 0.2574 ug/mL

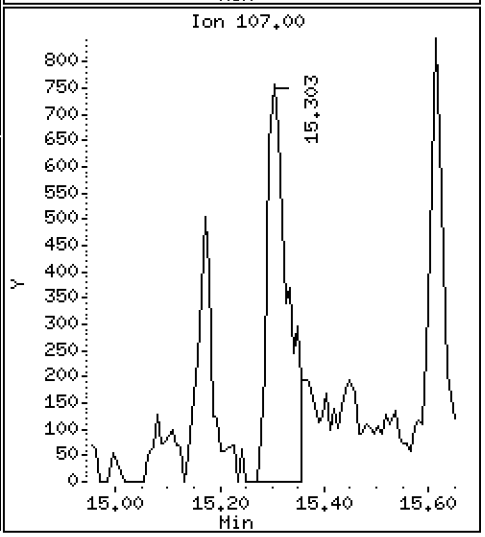


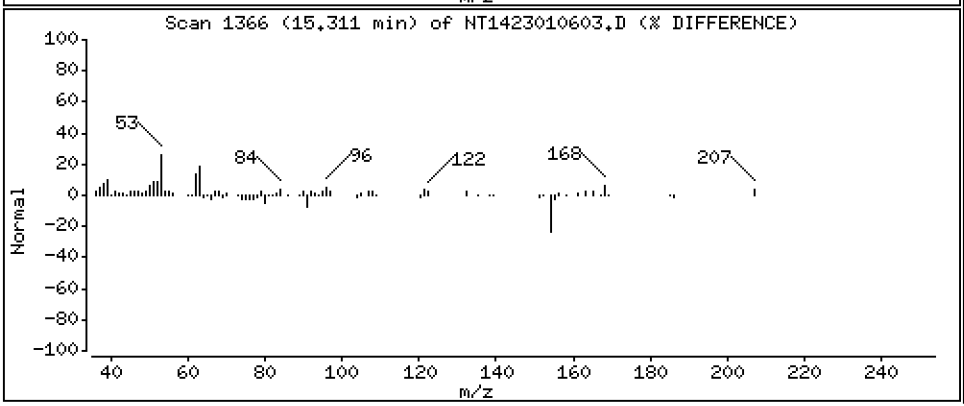












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

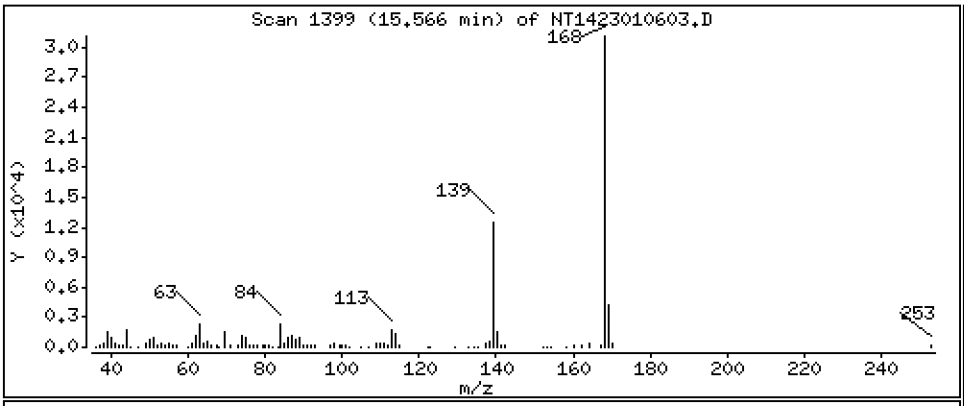
Operator: VTS

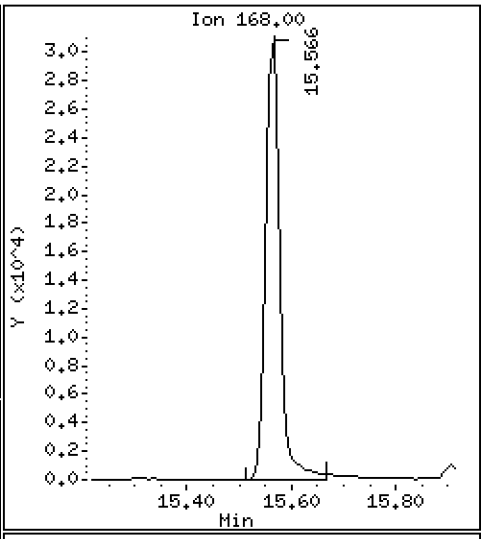
Column phase: ZB-5msi

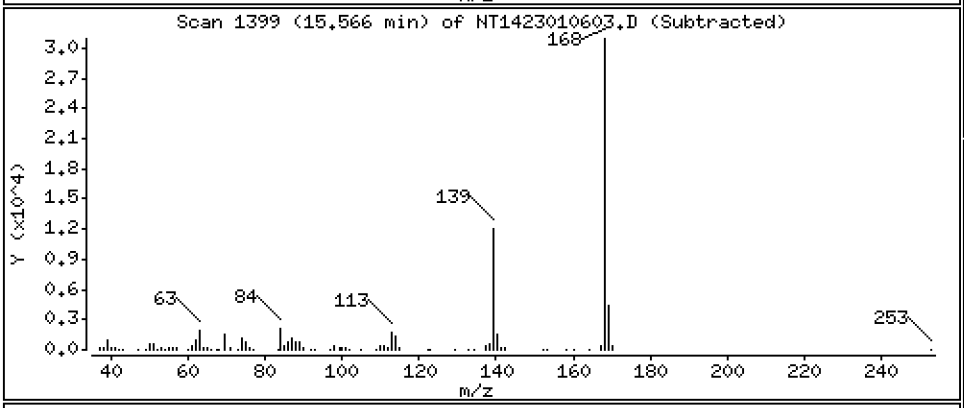
Column diameter: 0.25

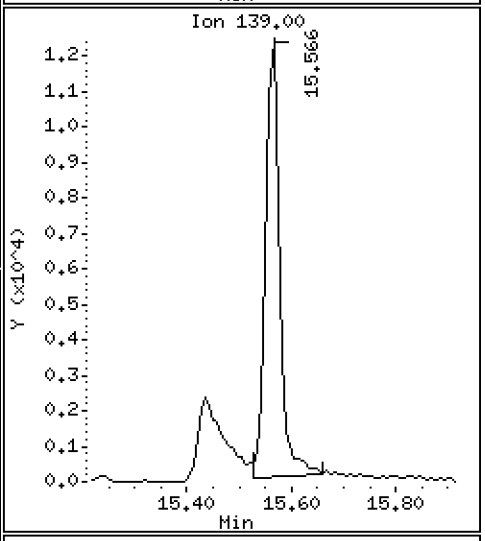
46 Dibenzofuran

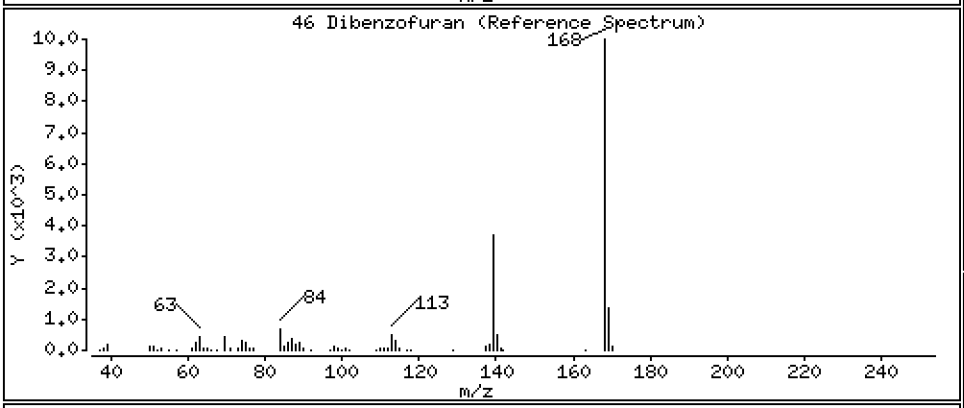
Concentration: 0.4574 ug/mL

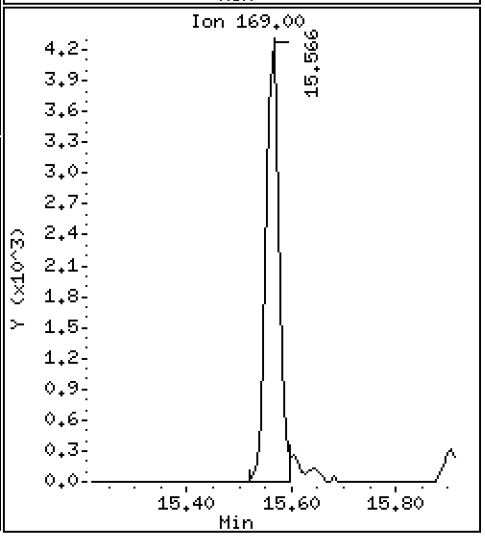


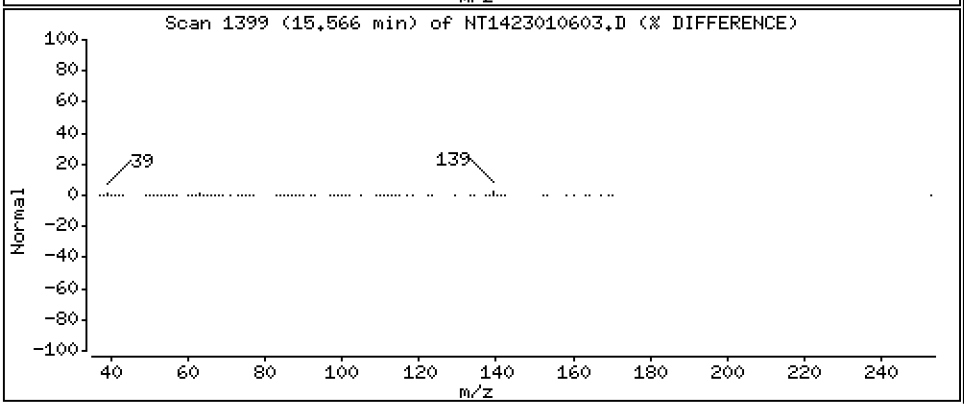












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

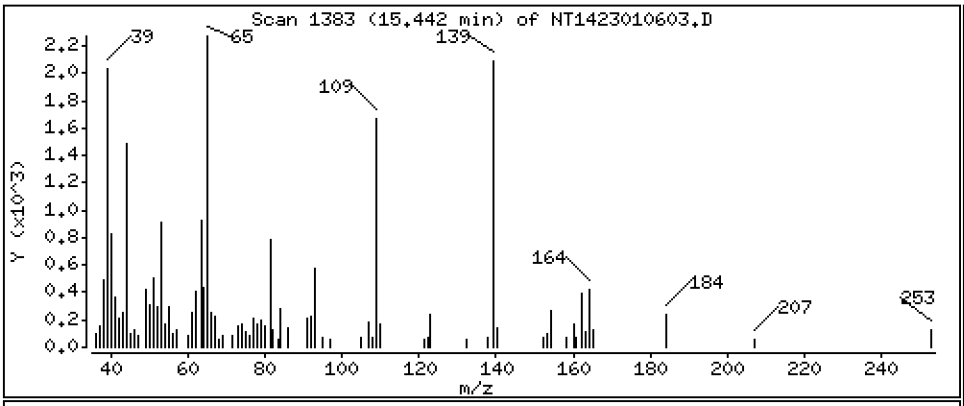
Operator: VTS

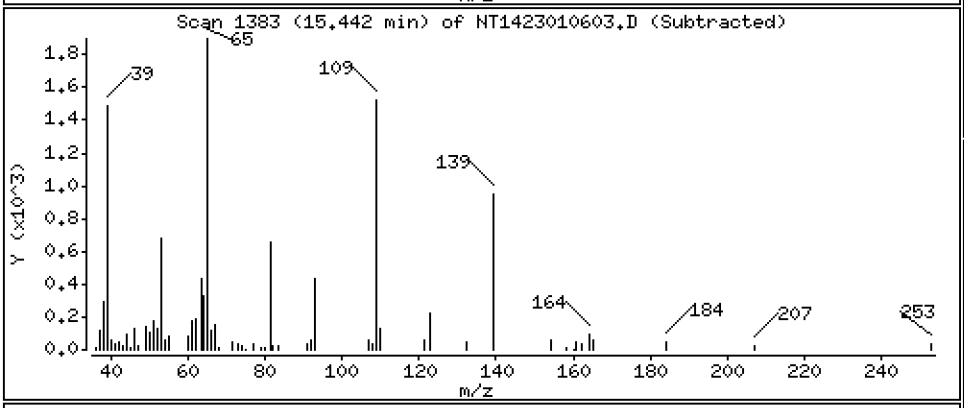
Column phase: ZB-5msi

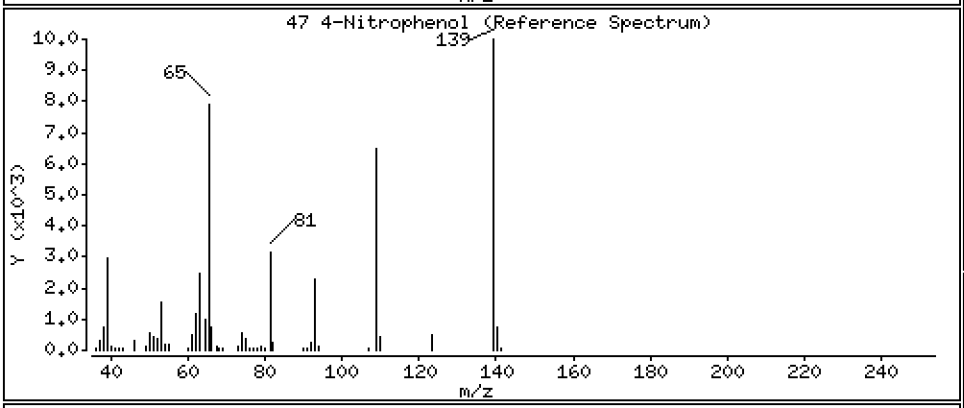
Column diameter: 0.25

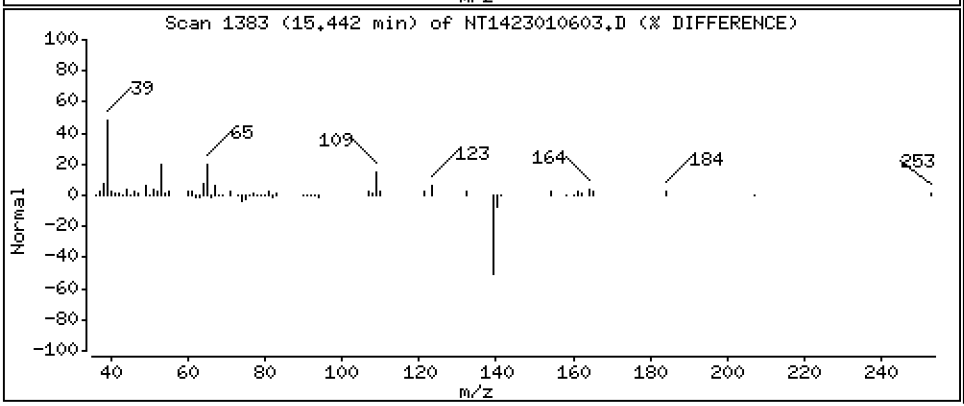
47 4-Nitrophenol

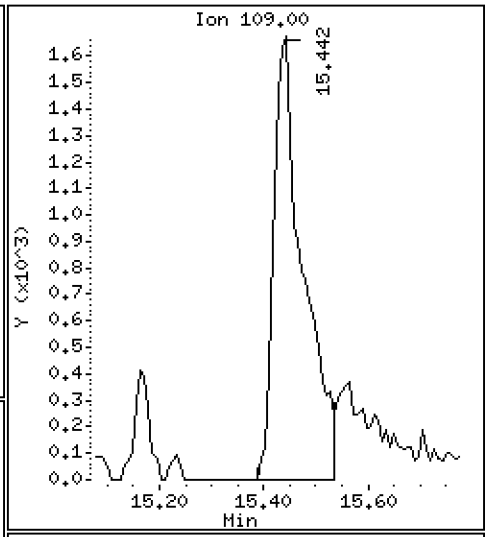
Concentration: 0.5797 ug/mL

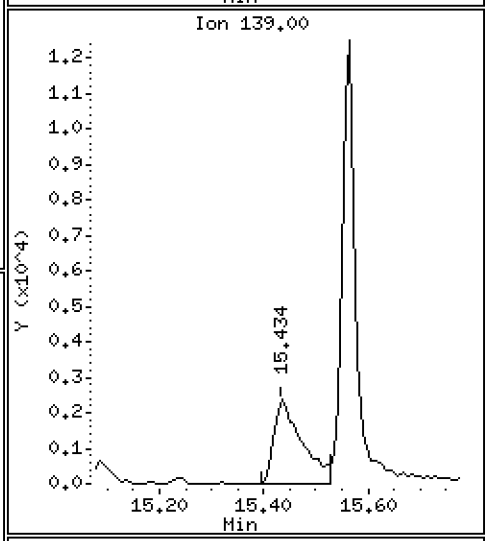


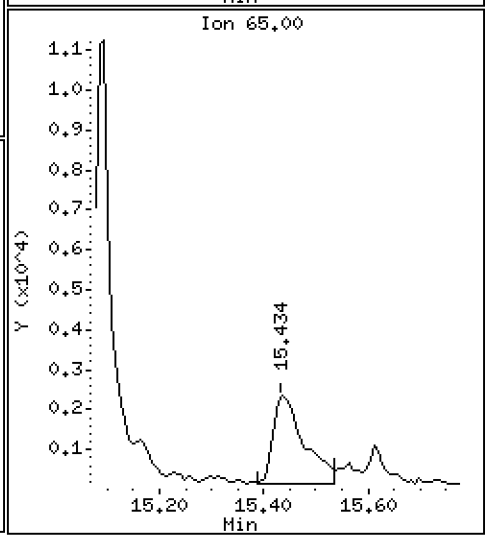












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

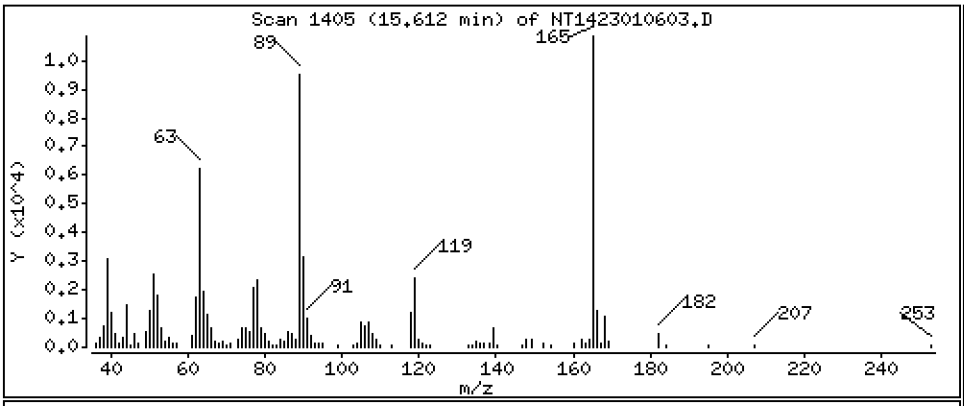
Operator: VTS

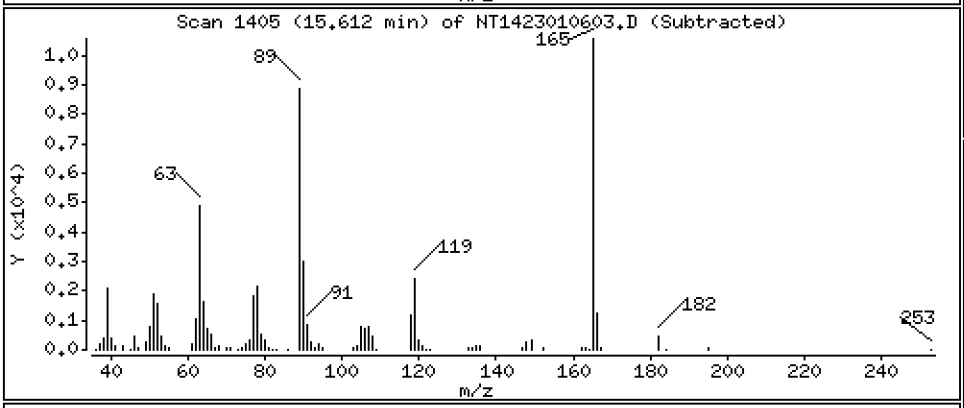
Column phase: ZB-5msi

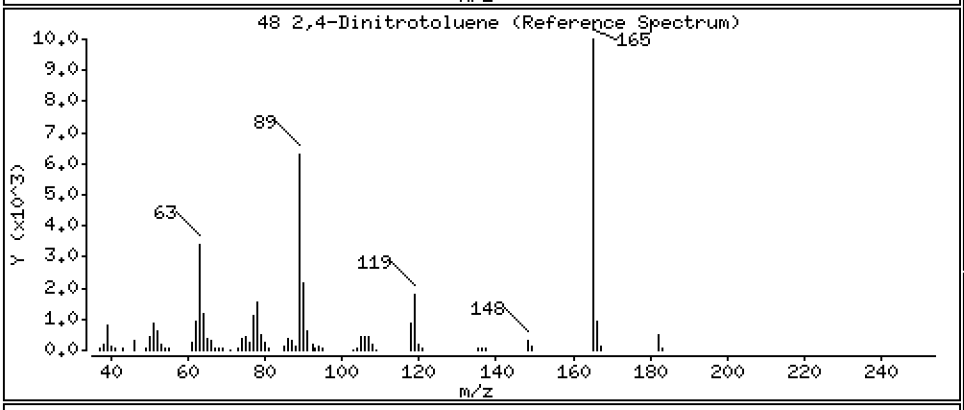
Column diameter: 0.25

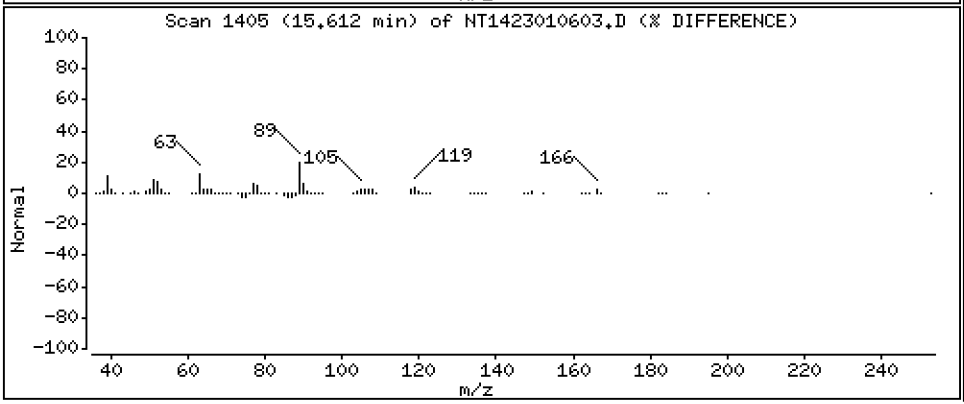
48 2,4-Dinitrotoluene

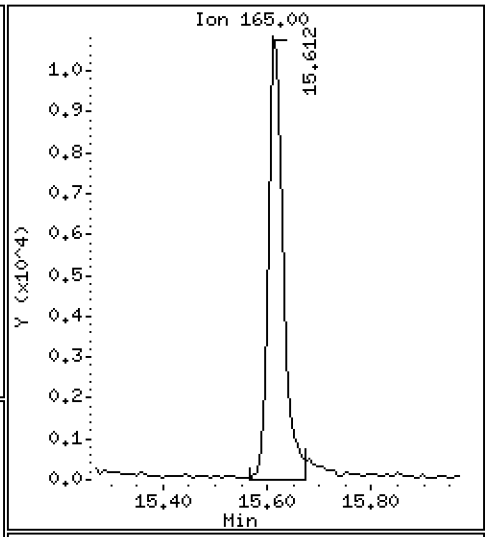
Concentration: 0.7878 ug/mL

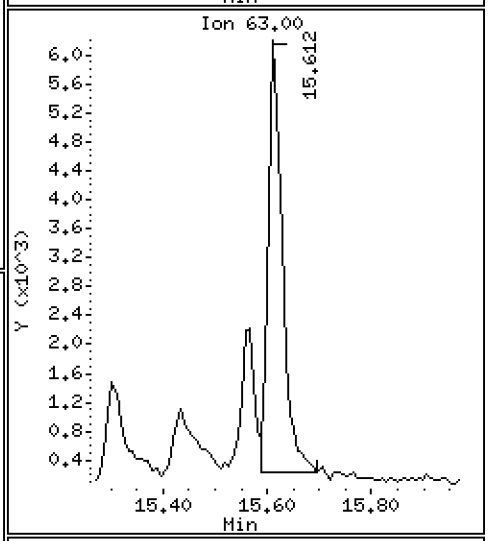


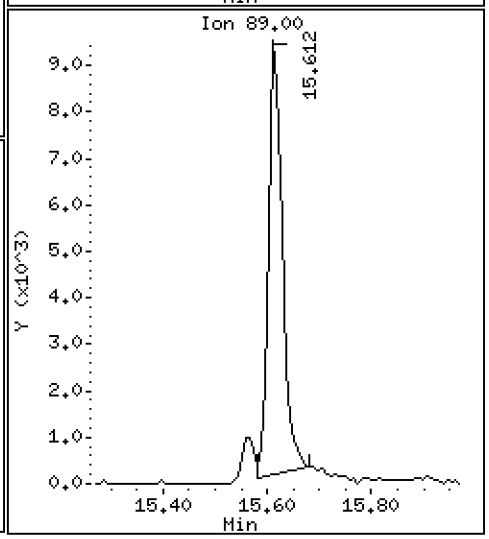












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

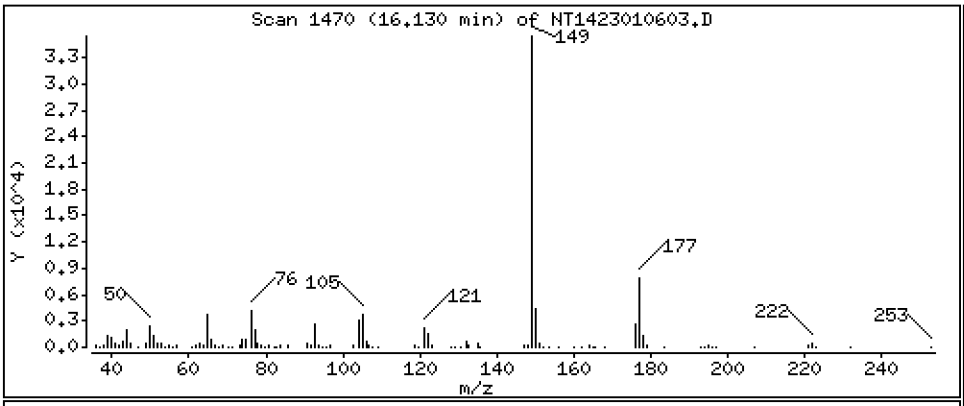
Operator: VTS

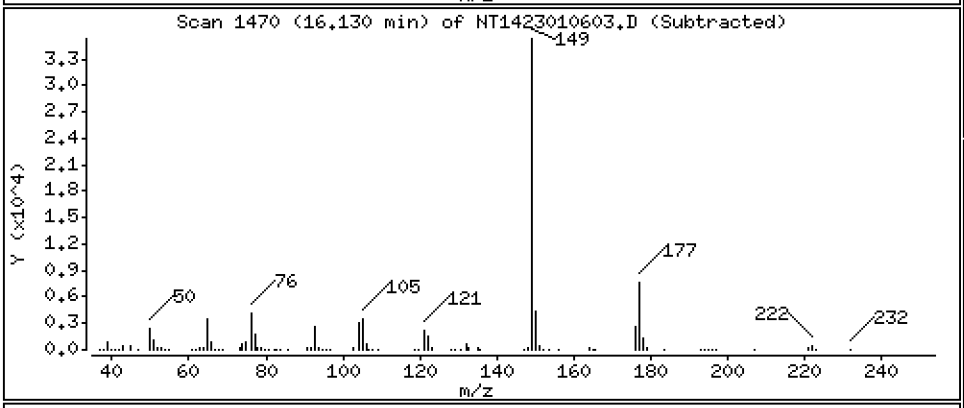
Column phase: ZB-5msi

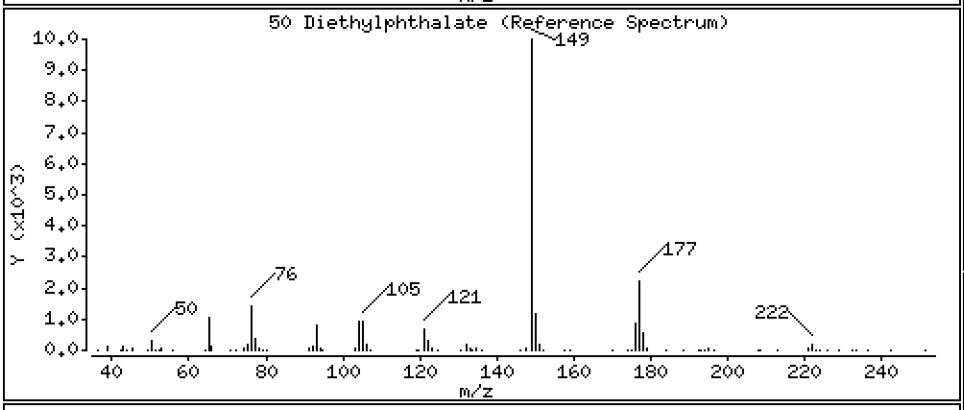
Column diameter: 0.25

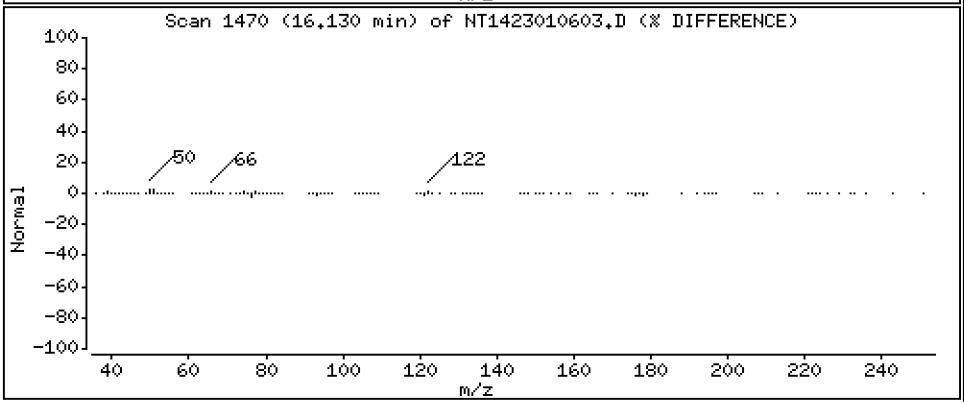
50 Diethylphthalate

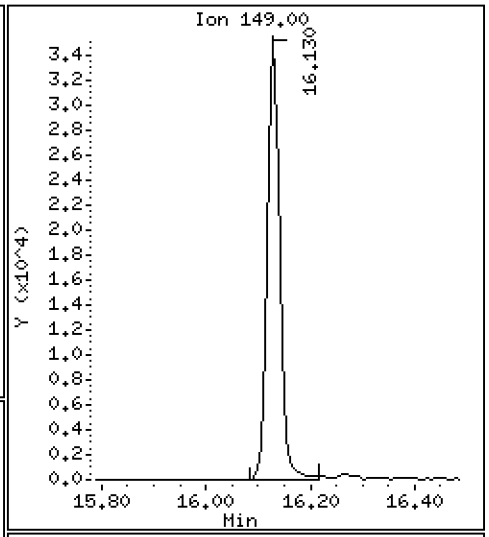
Concentration: 0.5351 ug/mL

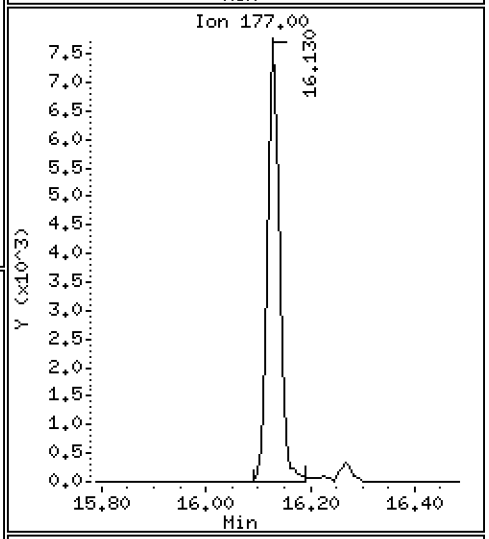


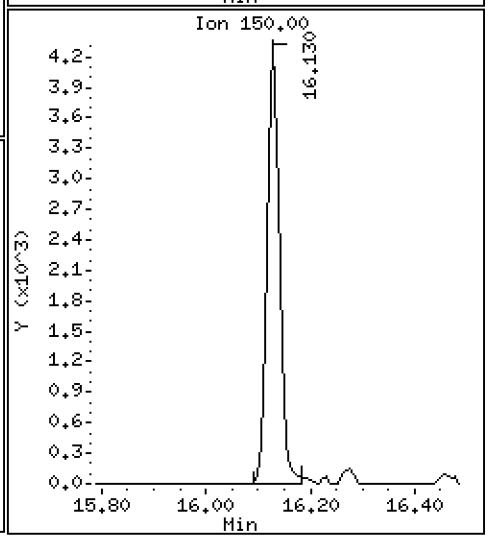












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

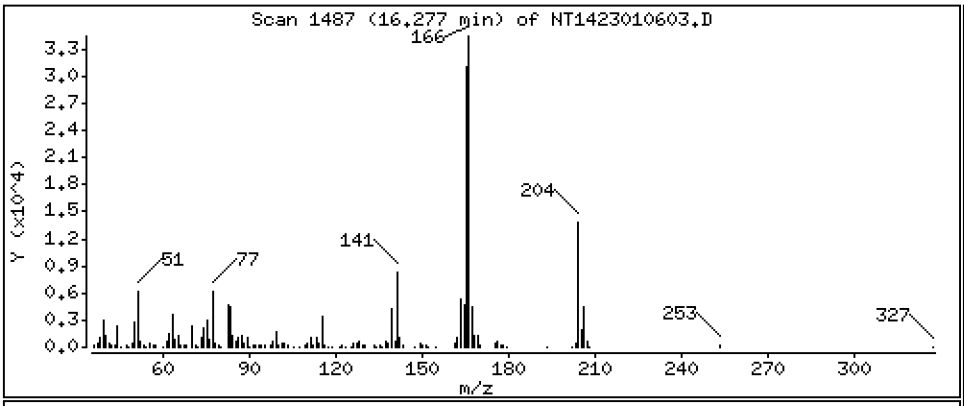
Operator: VTS

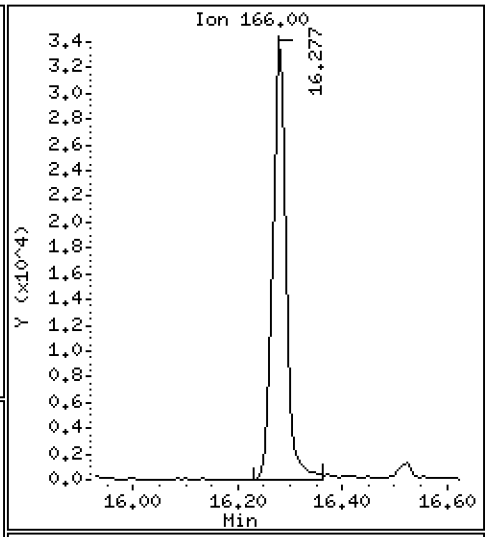
Column phase: ZB-5msi

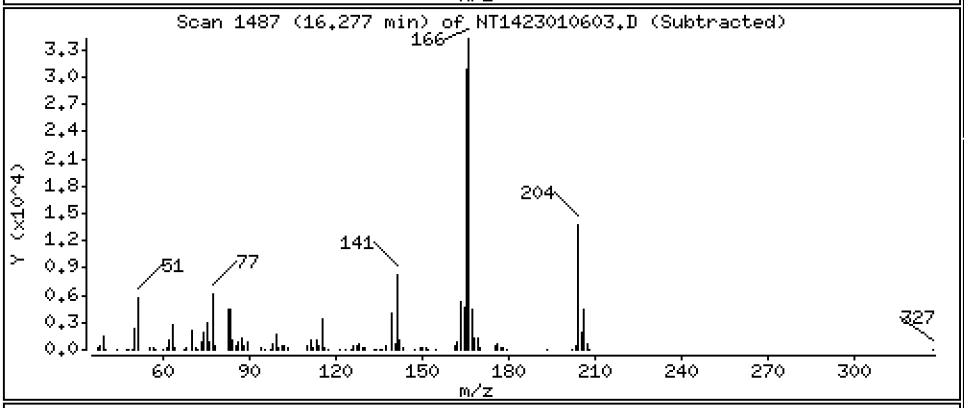
Column diameter: 0.25

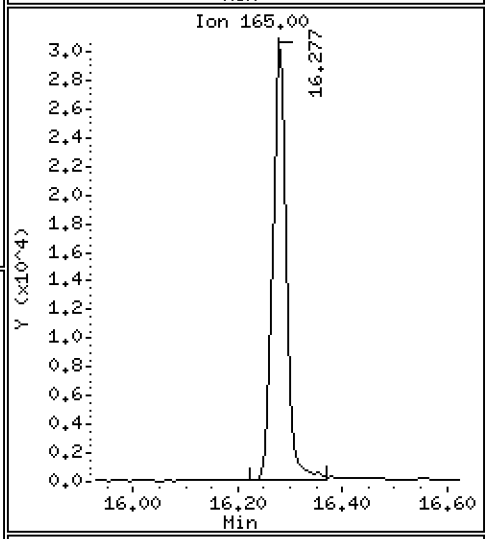
49 Fluorene

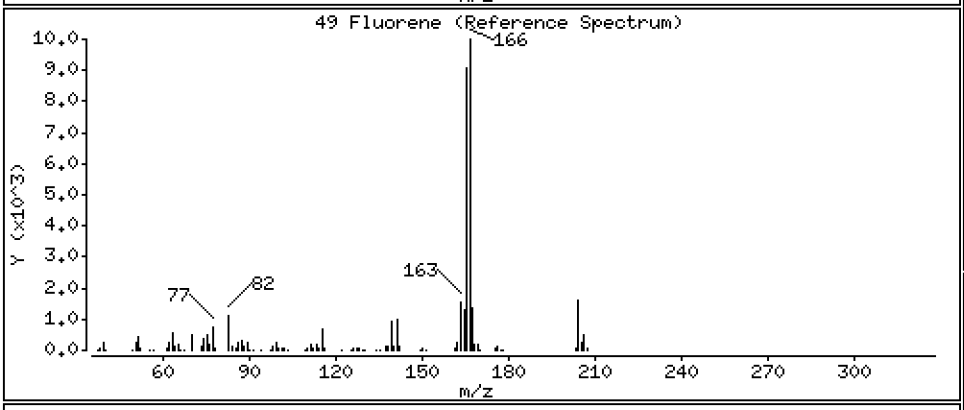
Concentration: 0.4623 ug/mL

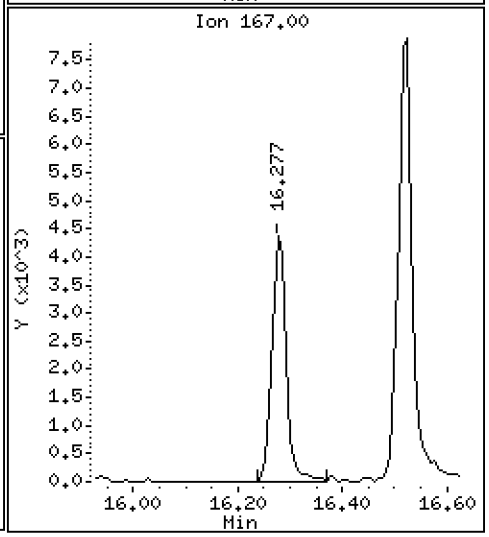


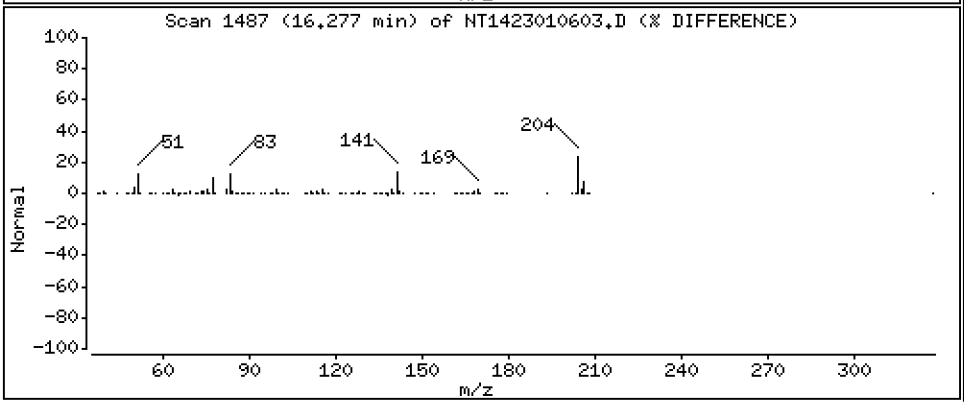












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

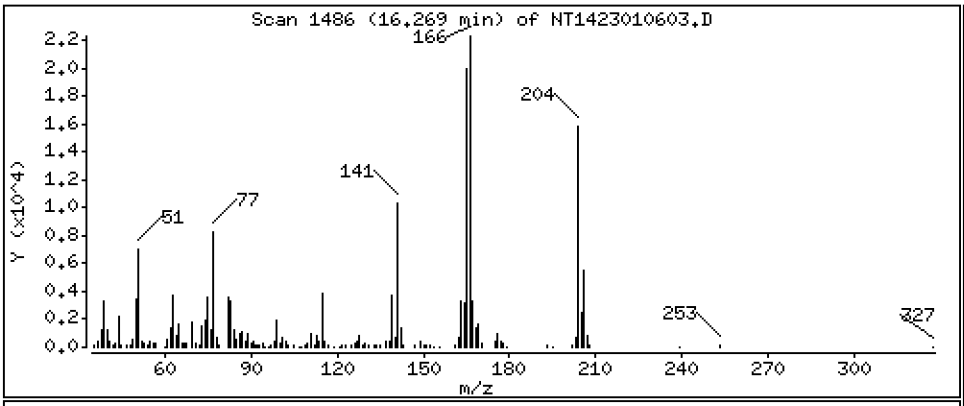
Operator: VTS

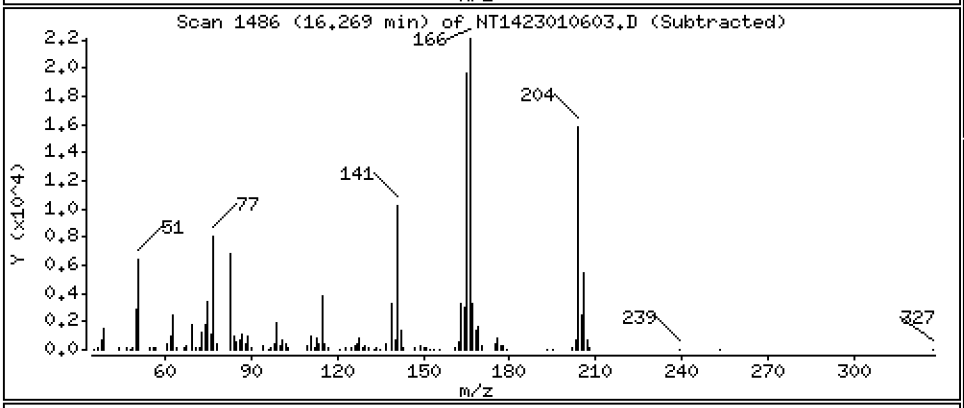
Column phase: ZB-5msi

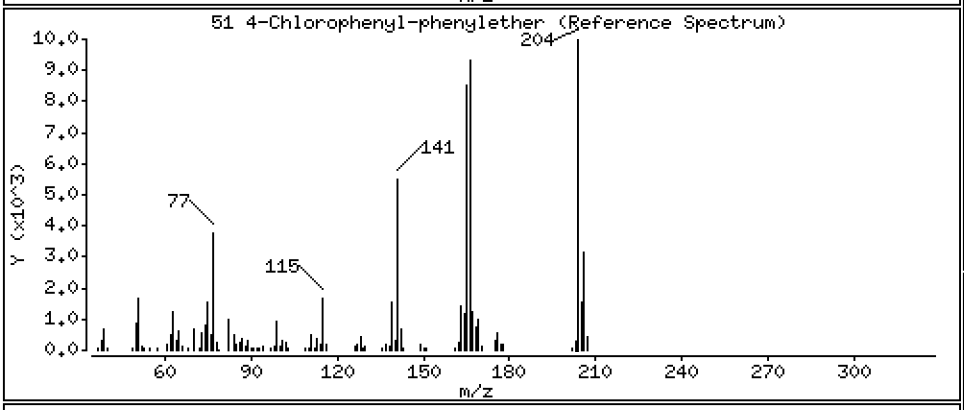
Column diameter: 0.25

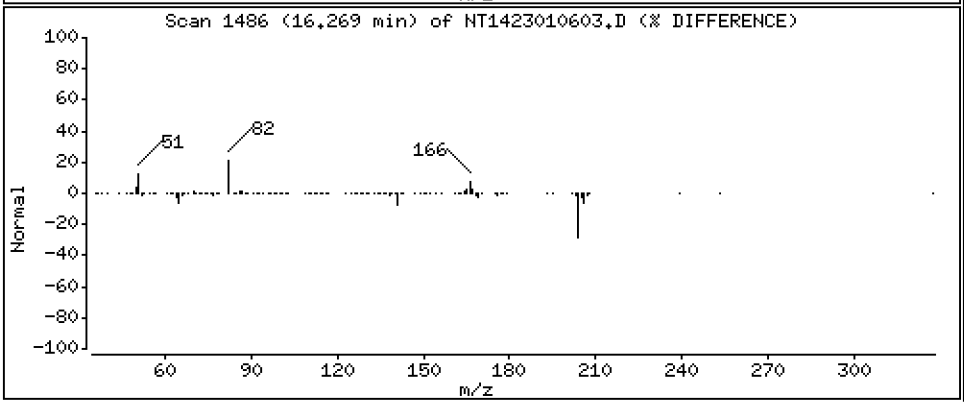
51 4-Chlorophenyl-phenylether

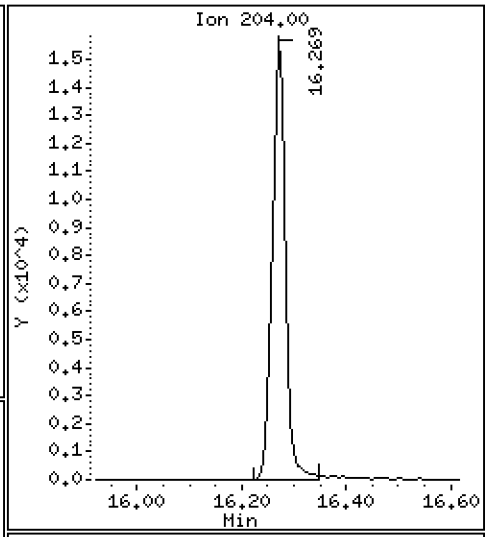
Concentration: 0.4223 ug/mL

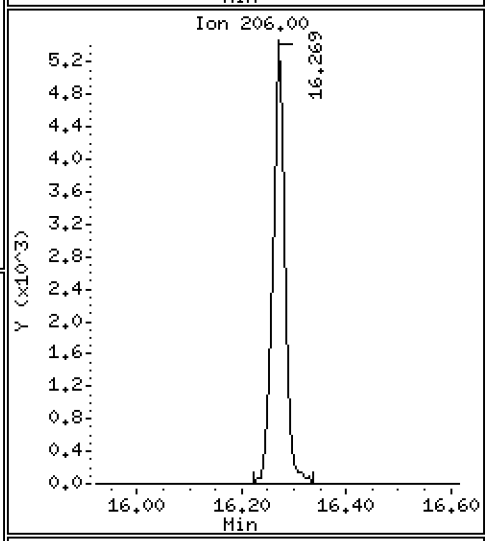


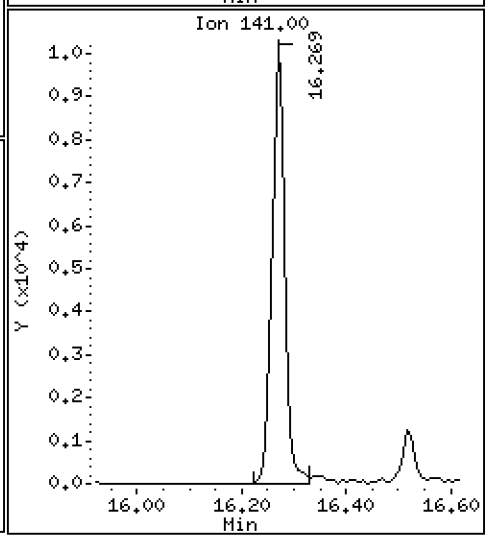












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

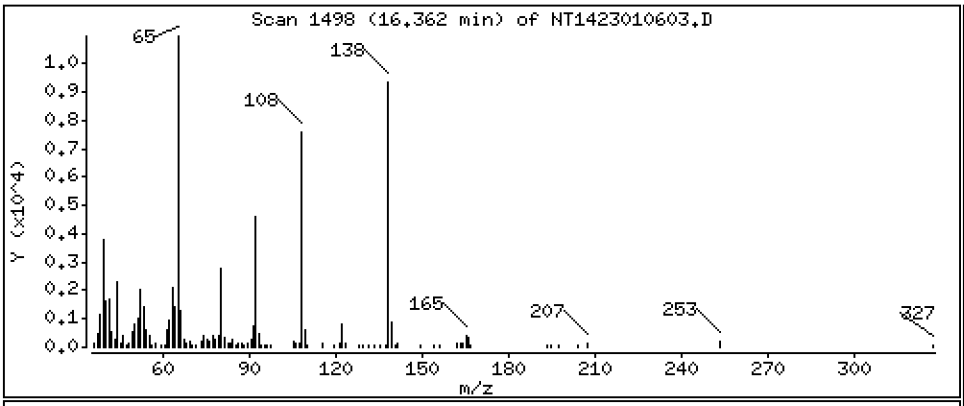
Operator: VTS

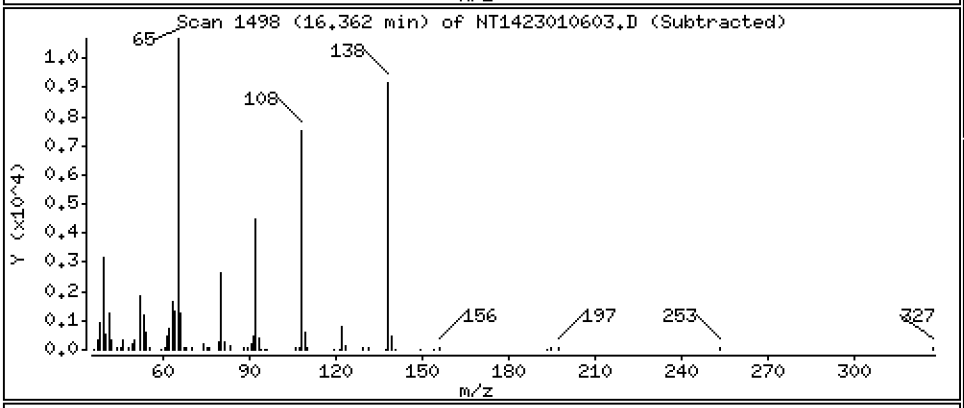
Column phase: ZB-5msi

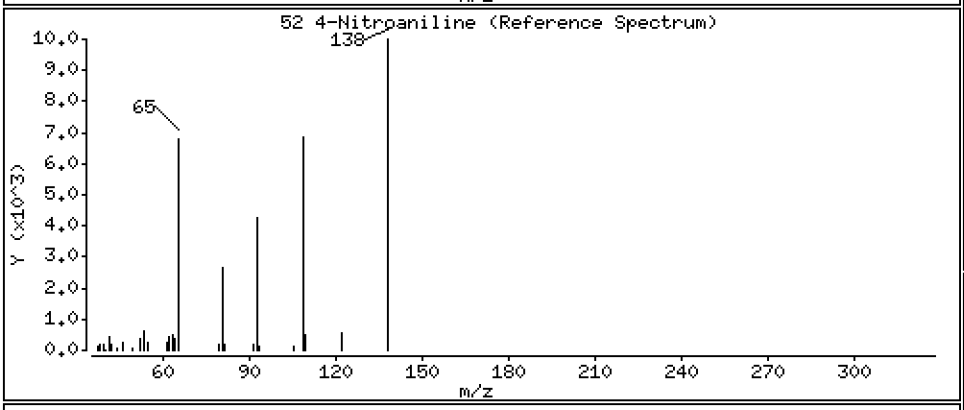
Column diameter: 0.25

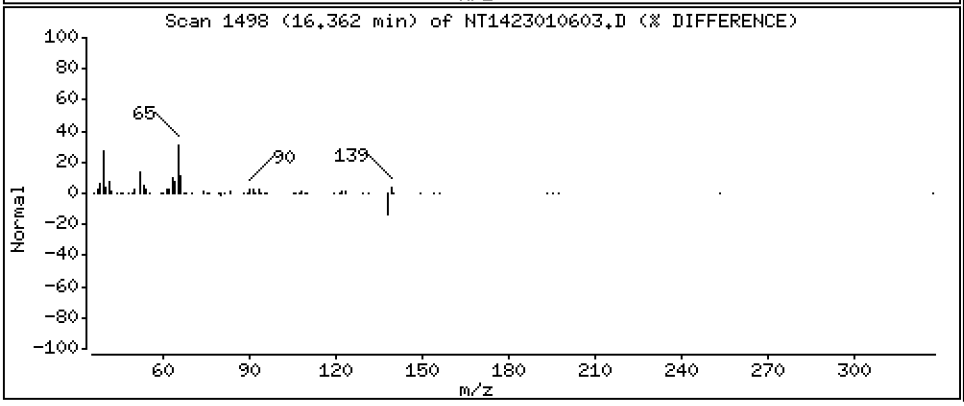
52 4-Nitroaniline

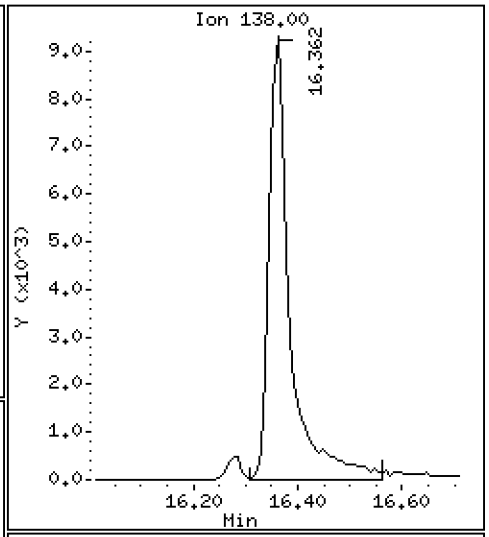
Concentration: 0.8951 ug/mL

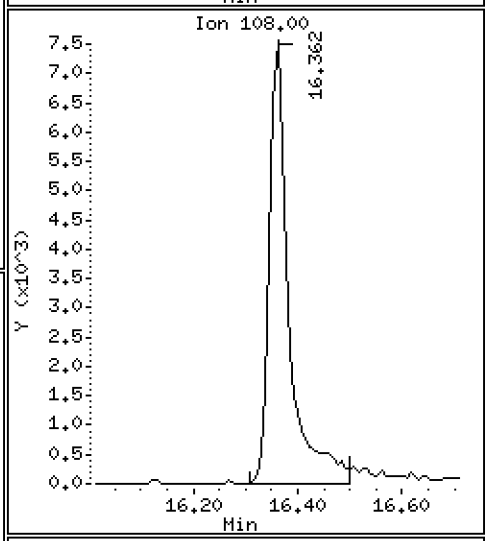


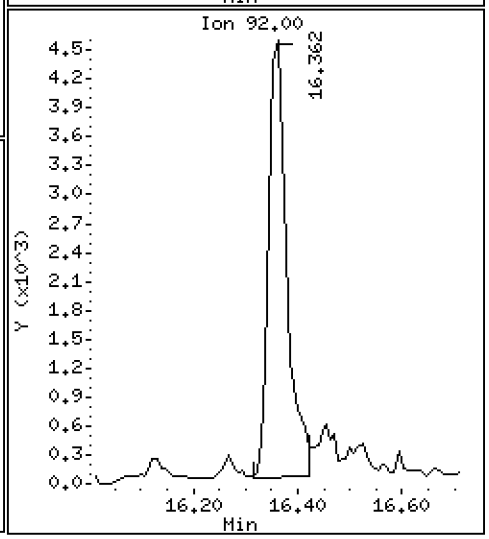












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

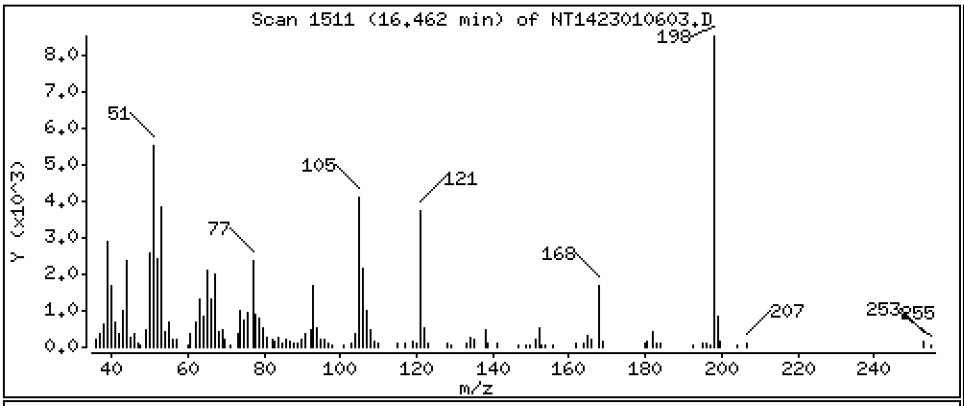
Operator: VTS

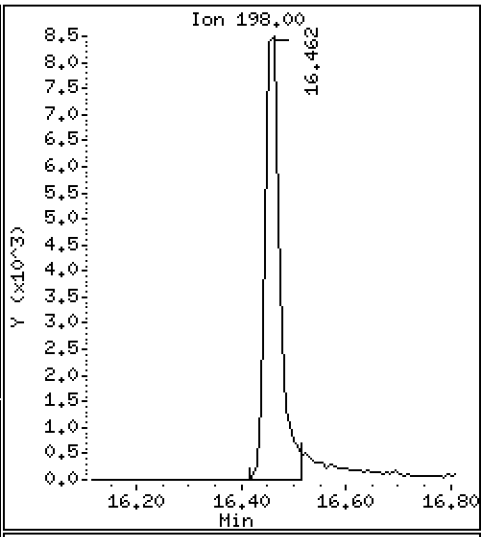
Column phase: ZB-5msi

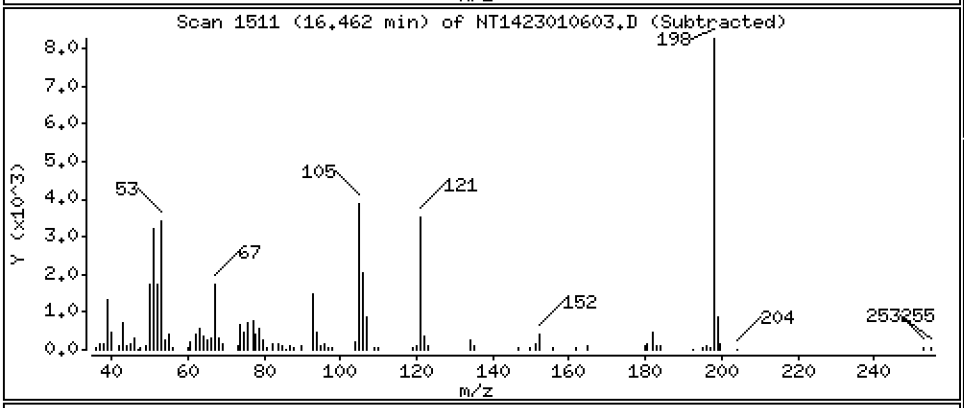
Column diameter: 0.25

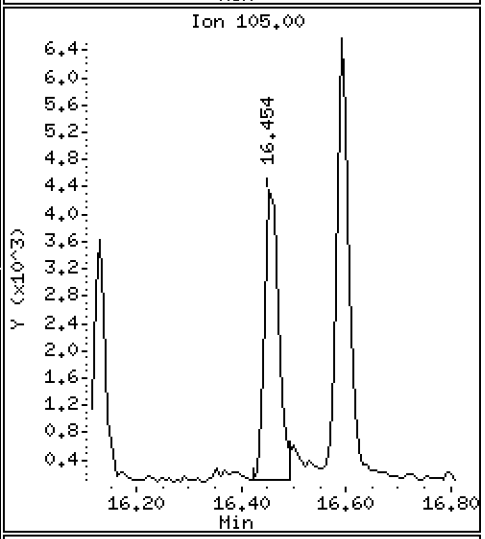
53 4,6-Dinitro-2-methylphenol

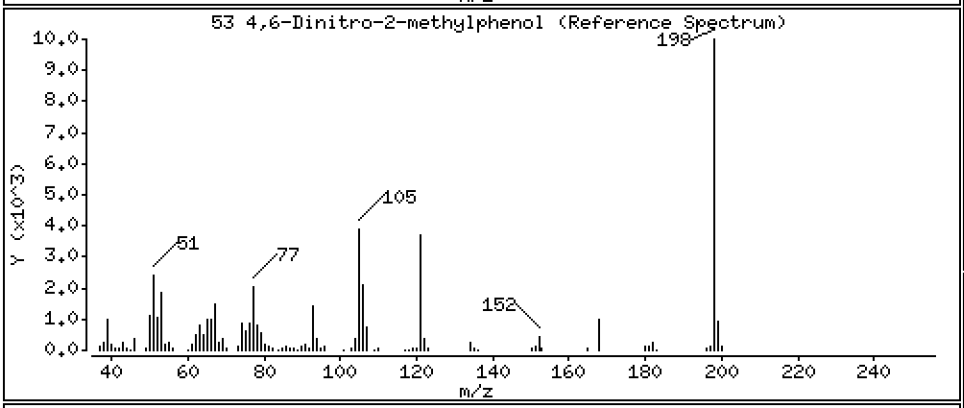
Concentration: 0.7687 ug/mL

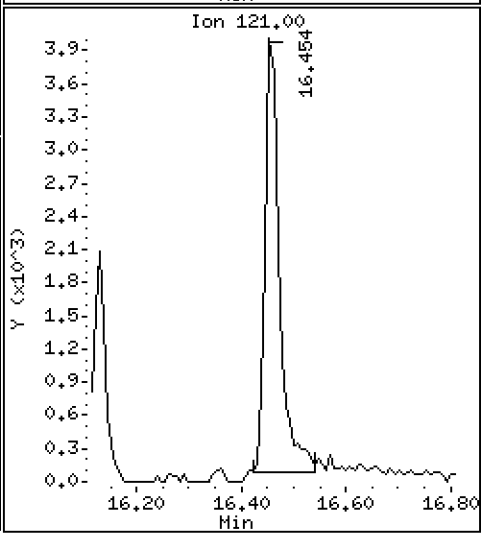


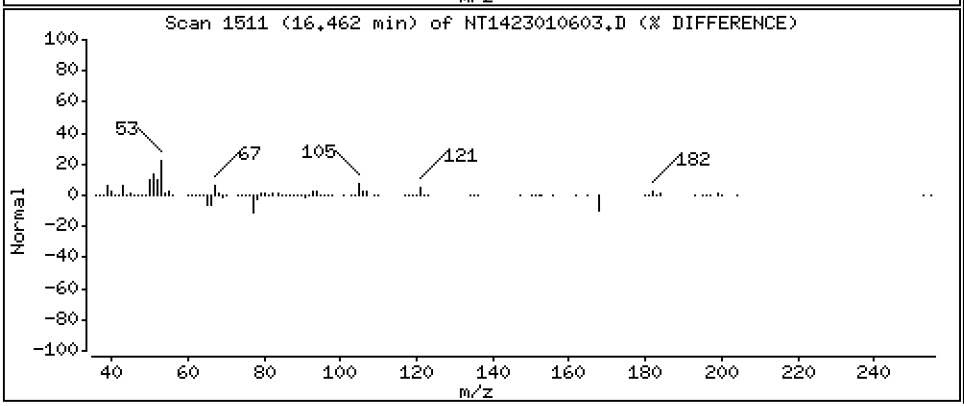












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

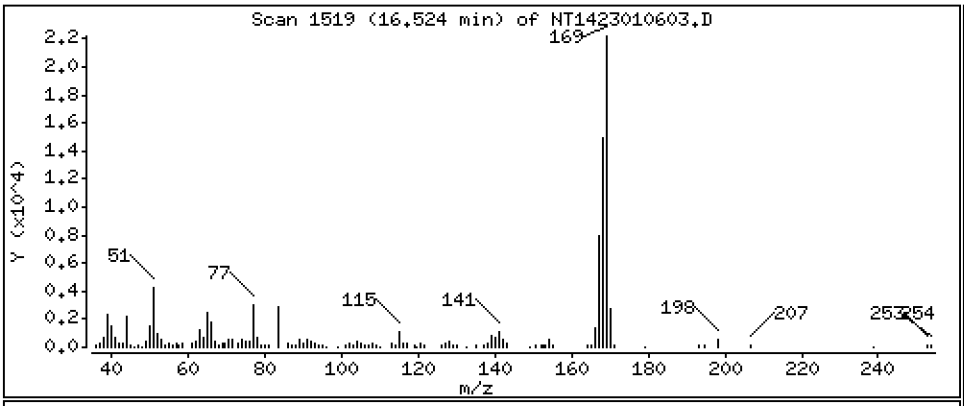
Operator: VTS

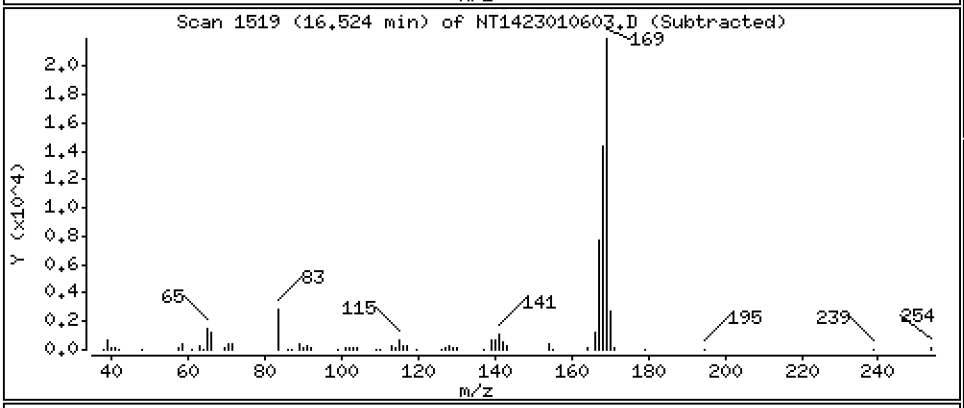
Column phase: ZB-5msi

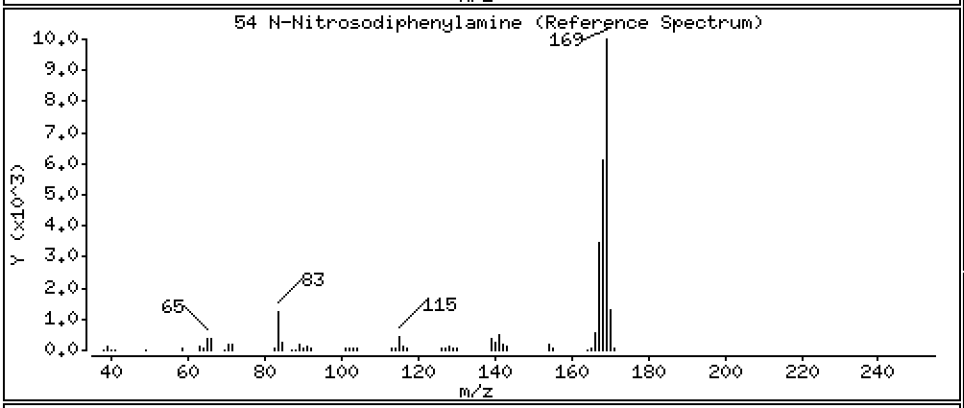
Column diameter: 0.25

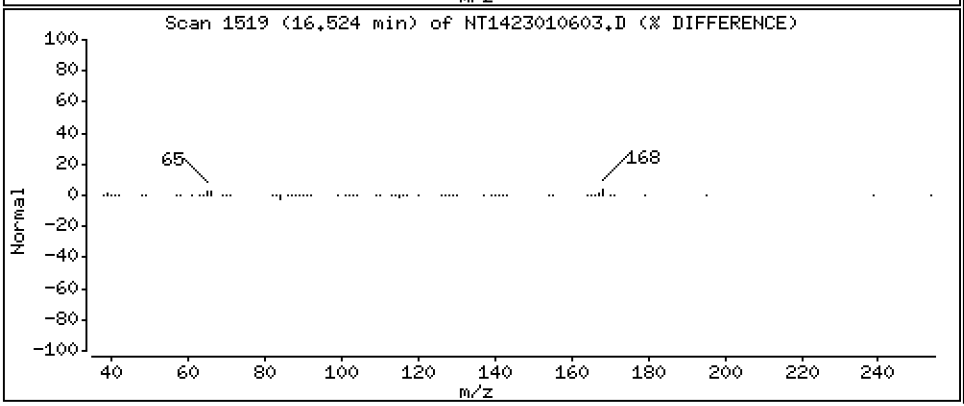
54 N-Nitrosodiphenylamine

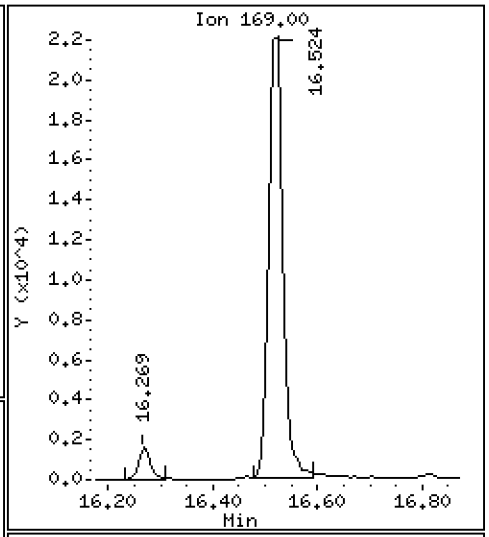
Concentration: 0.4513 ug/mL

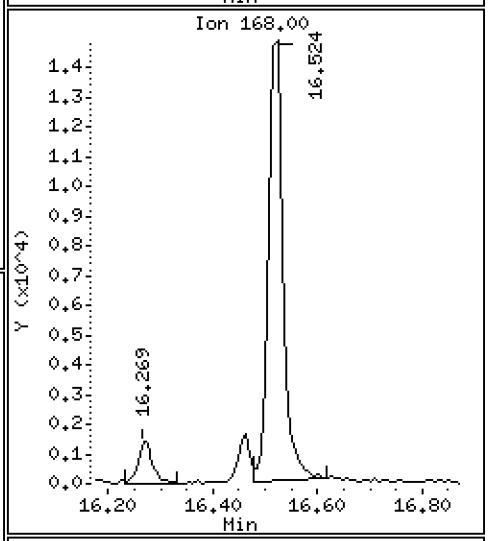


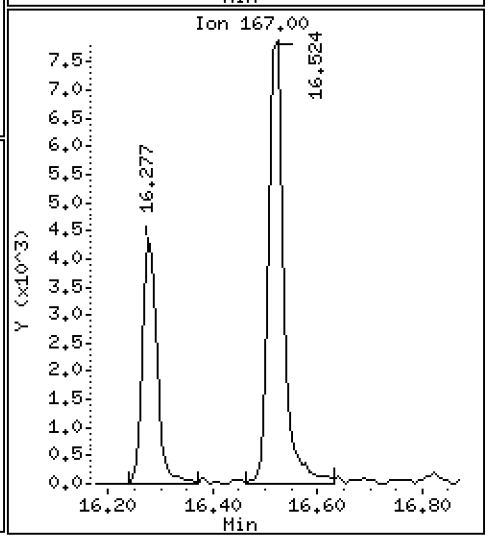












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

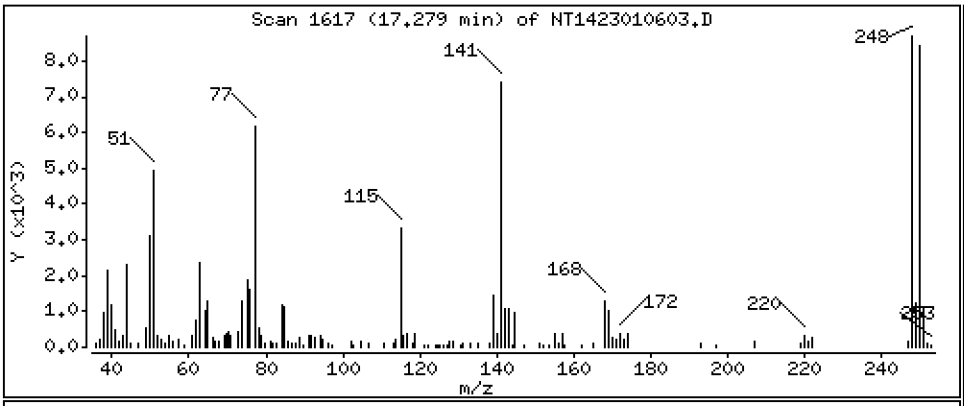
Operator: VTS

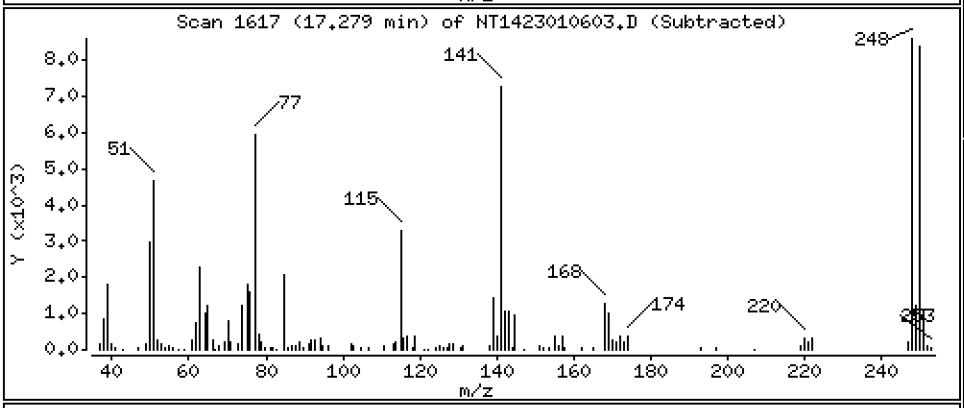
Column phase: ZB-5msi

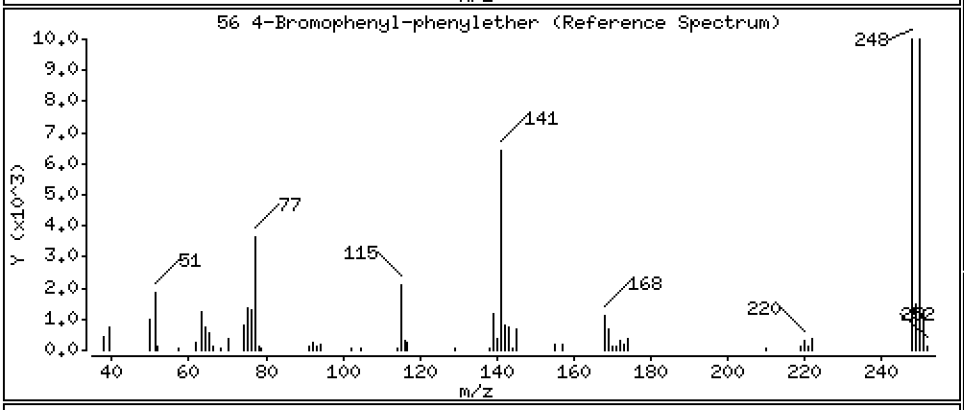
Column diameter: 0.25

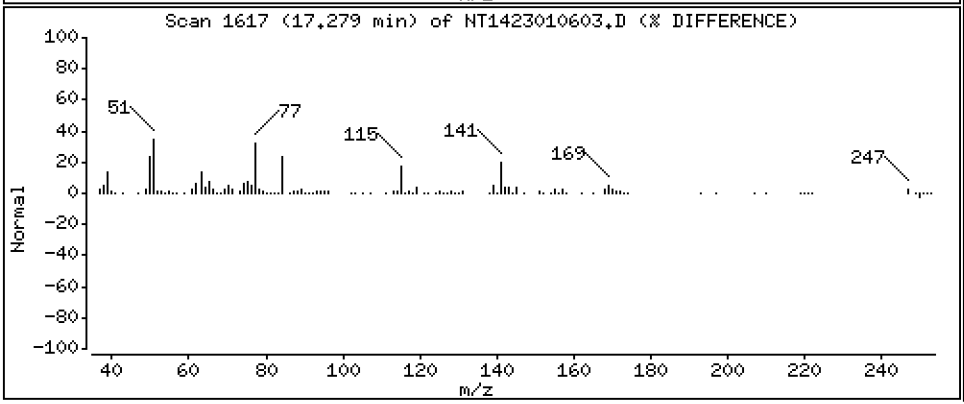
56 4-Bromophenyl-phenylether

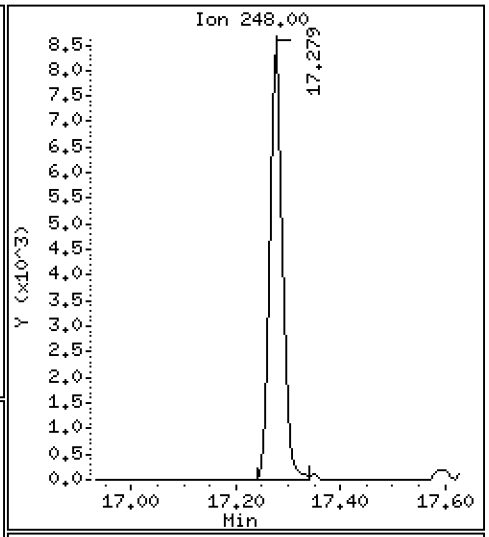
Concentration: 0.4297 ug/mL

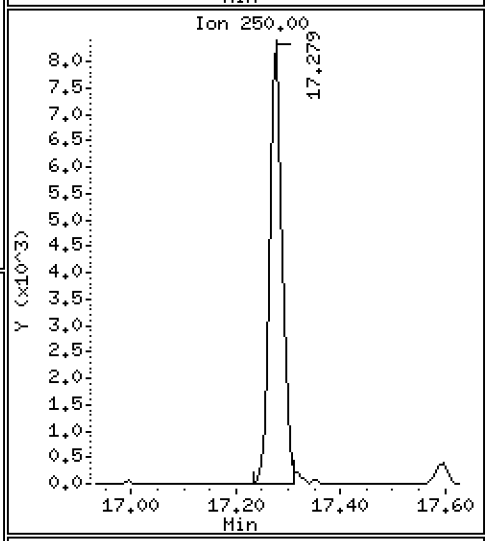


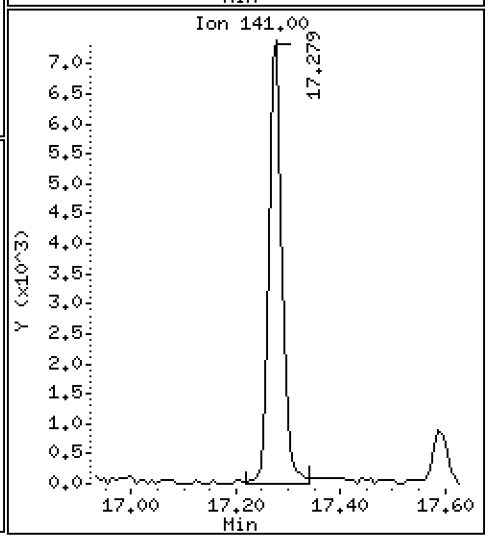












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

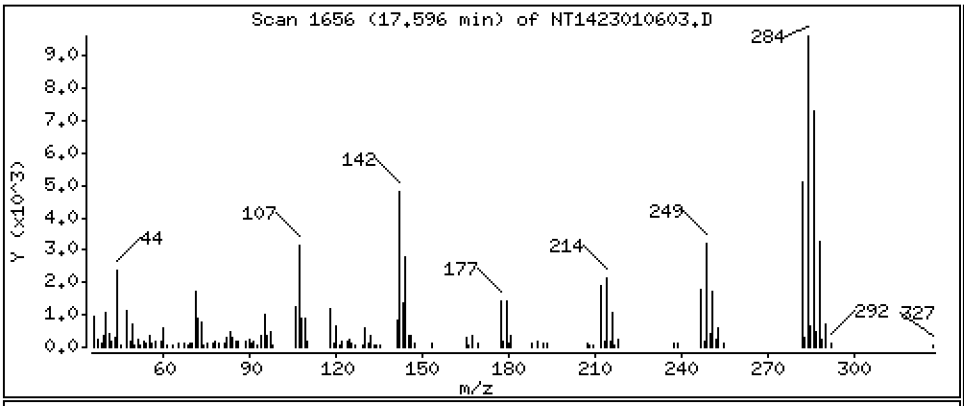
Operator: VTS

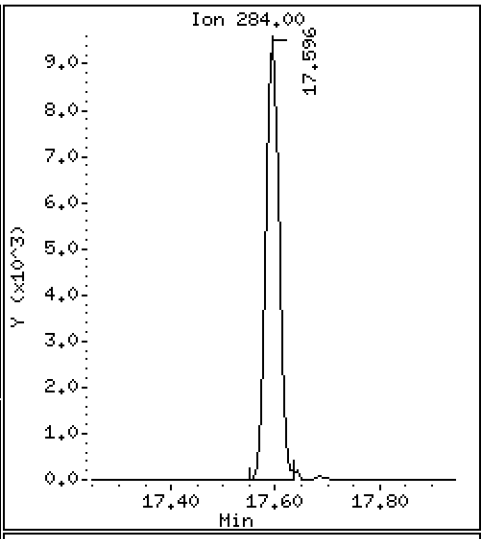
Column phase: ZB-5msi

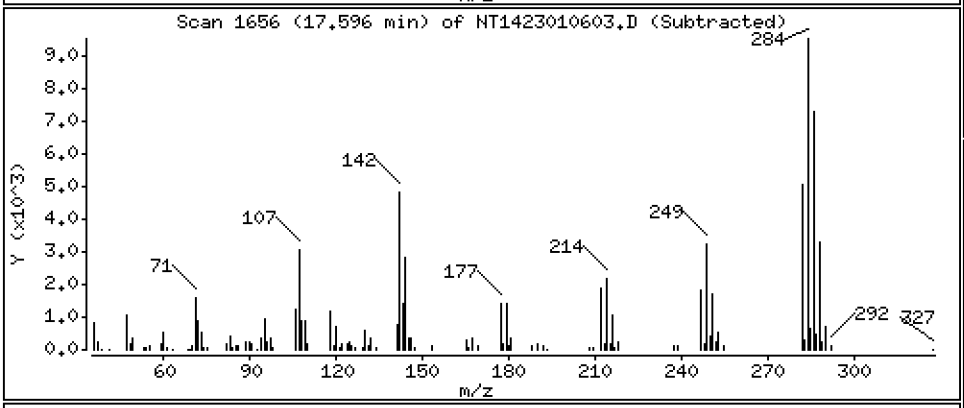
Column diameter: 0.25

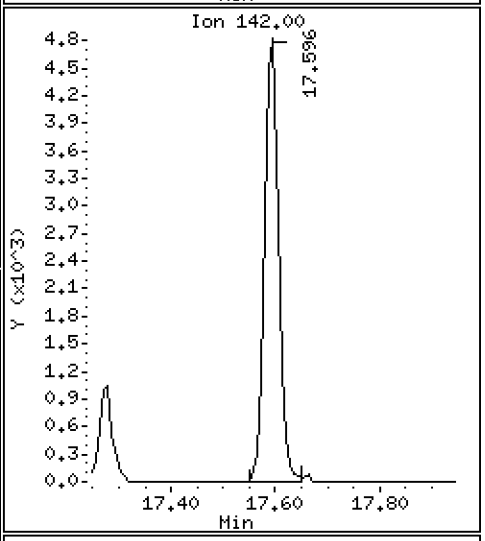
57 Hexachlorobenzene

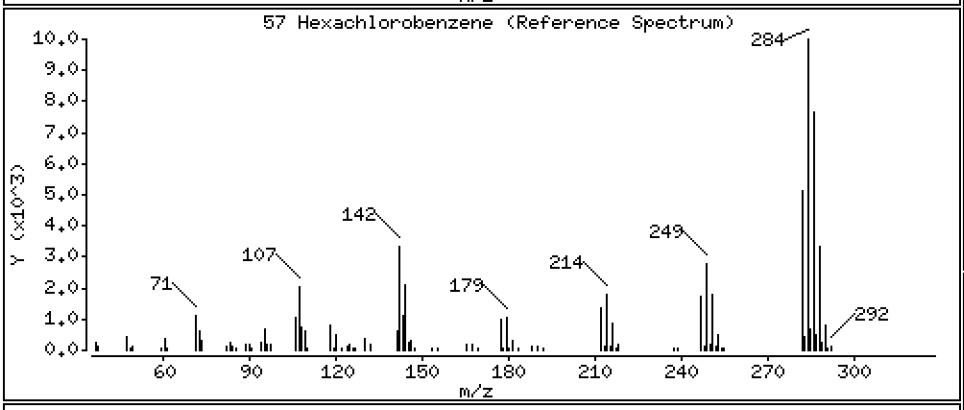
Concentration: 0.4433 ug/mL

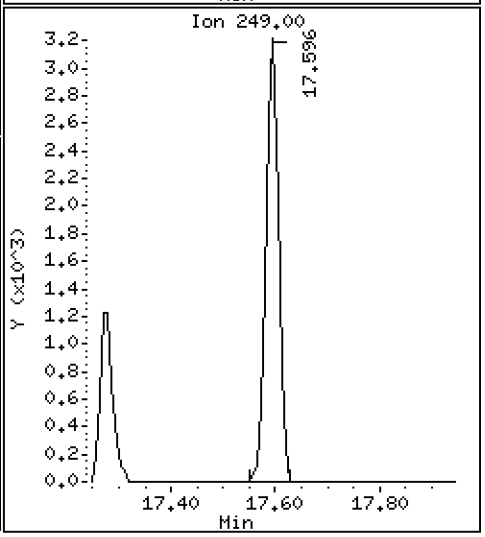


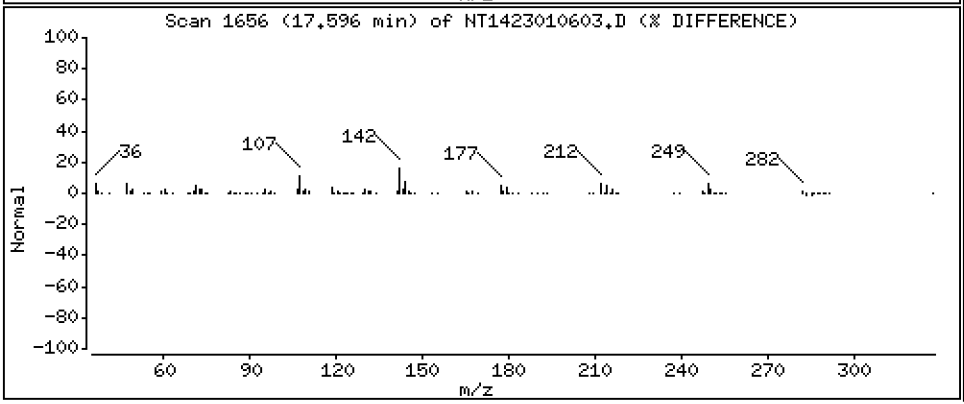












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

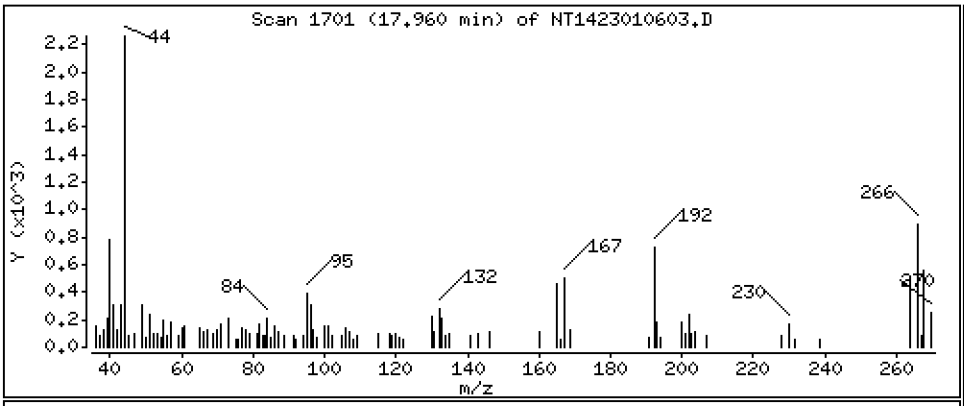
Operator: VTS

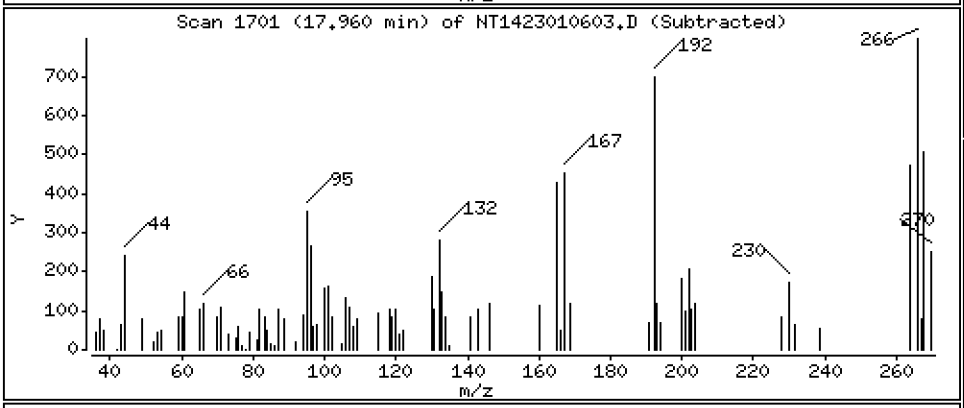
Column phase: ZB-5msi

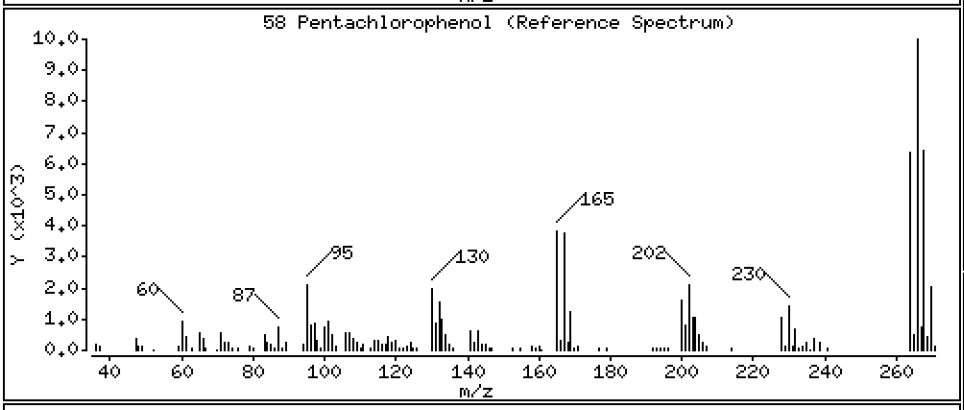
Column diameter: 0.25

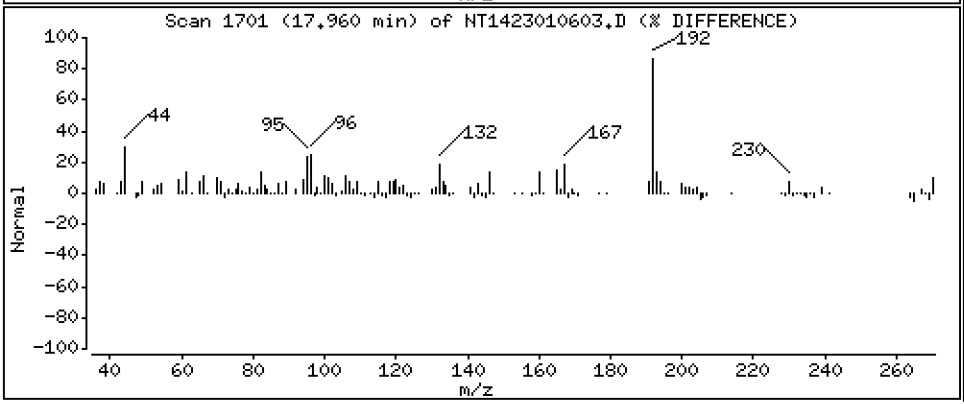
58 Pentachlorophenol

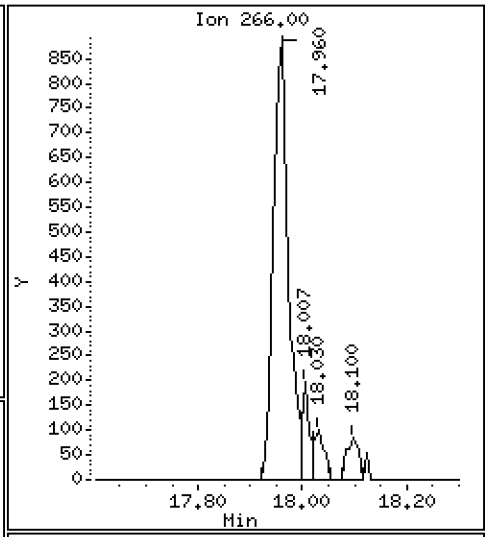
Concentration: 0.1118 ug/mL

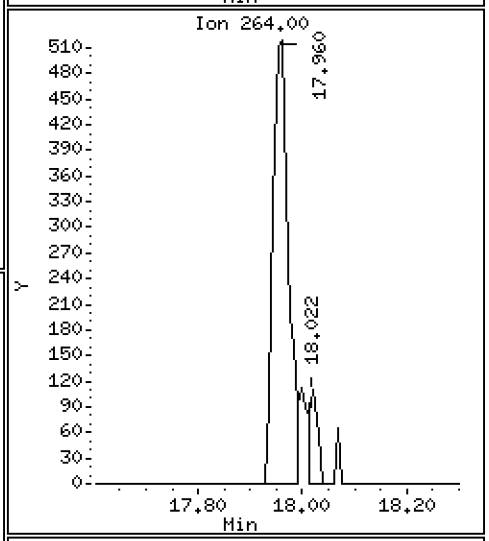


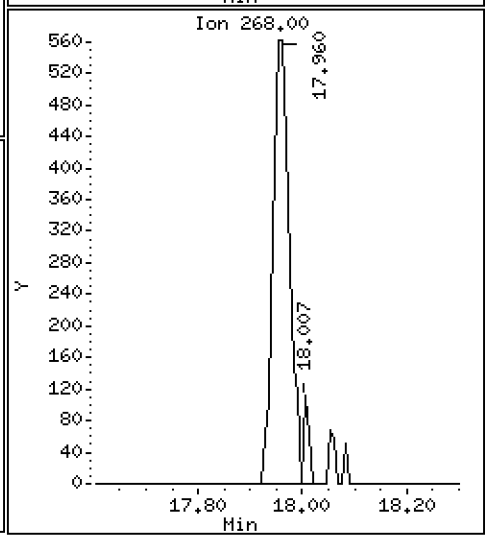












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

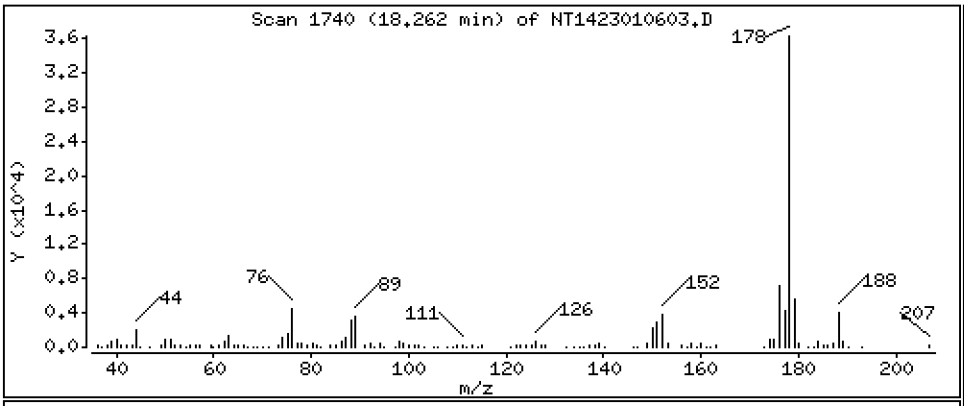
Operator: VTS

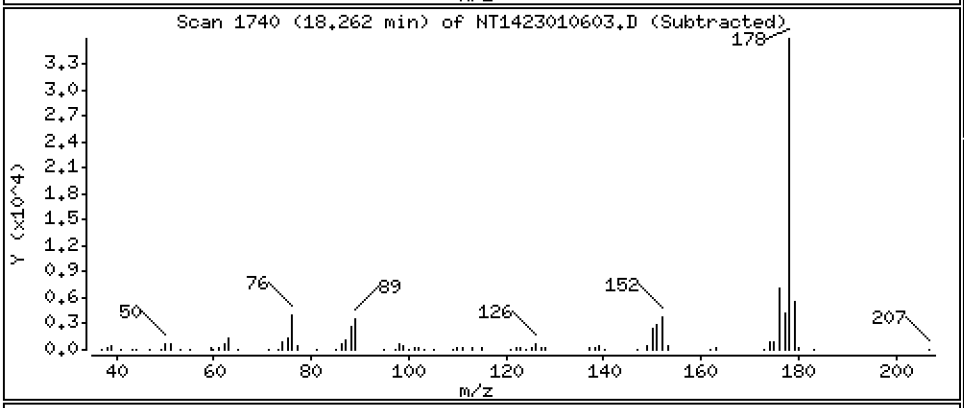
Column phase: ZB-5msi

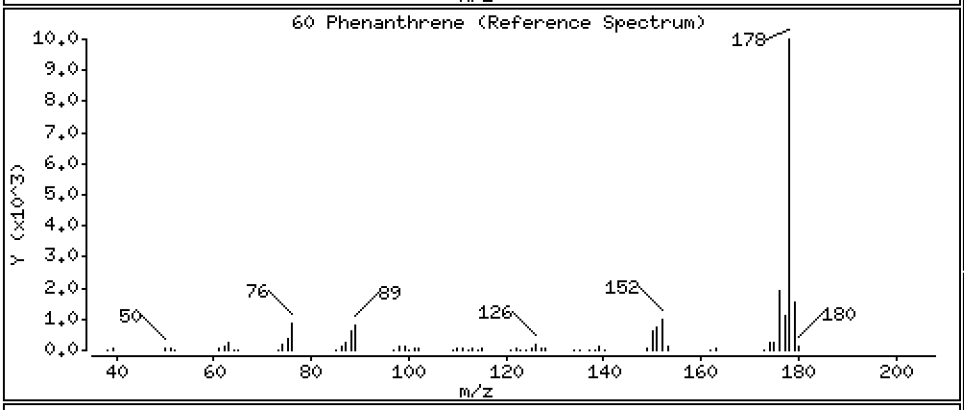
Column diameter: 0.25

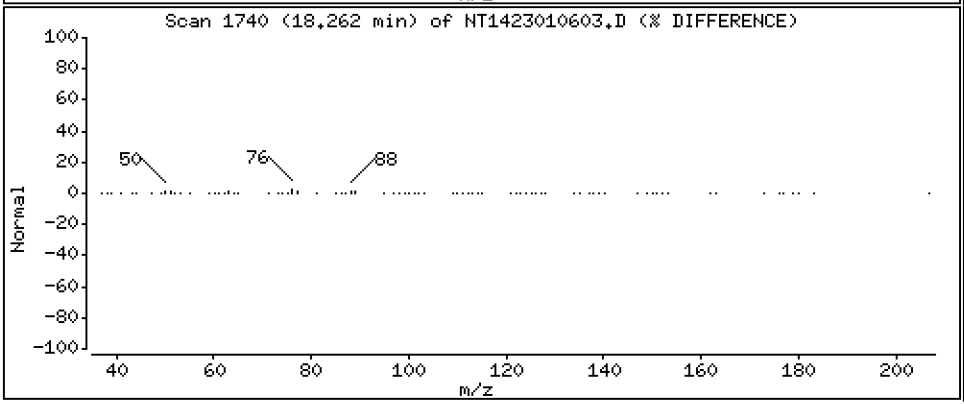
60 Phenanthrene

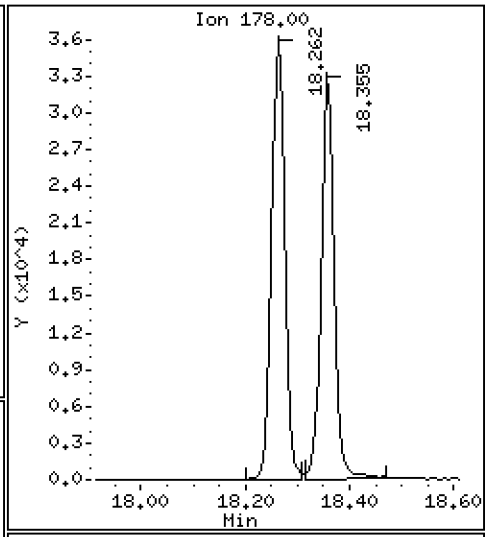
Concentration: 0.4581 ug/mL

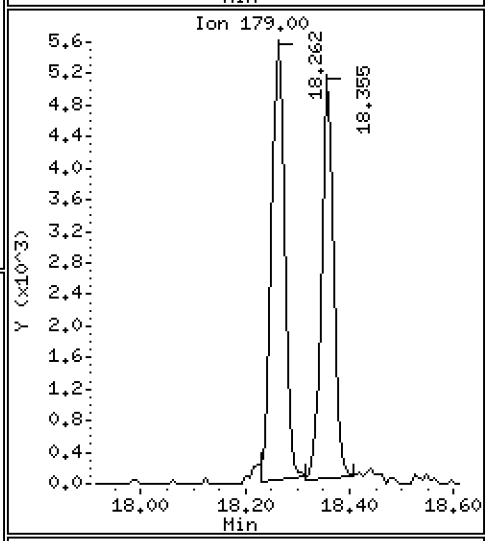


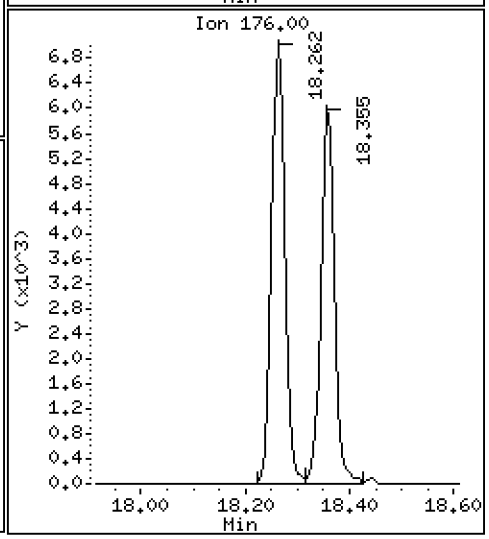












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

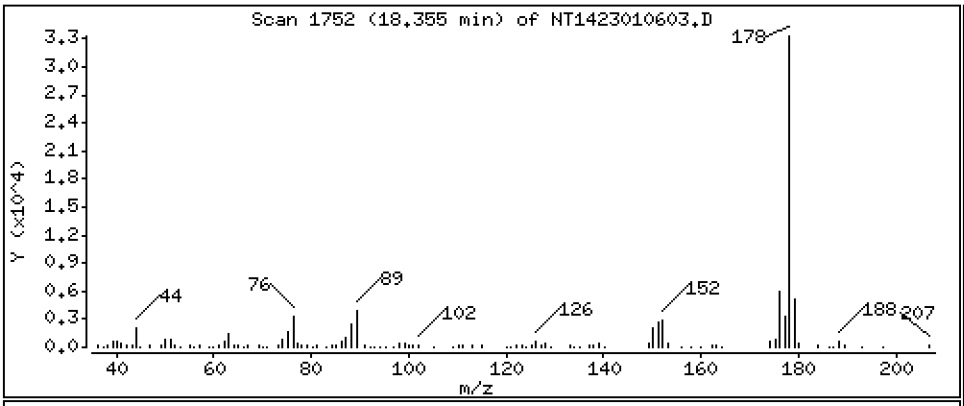
Operator: VTS

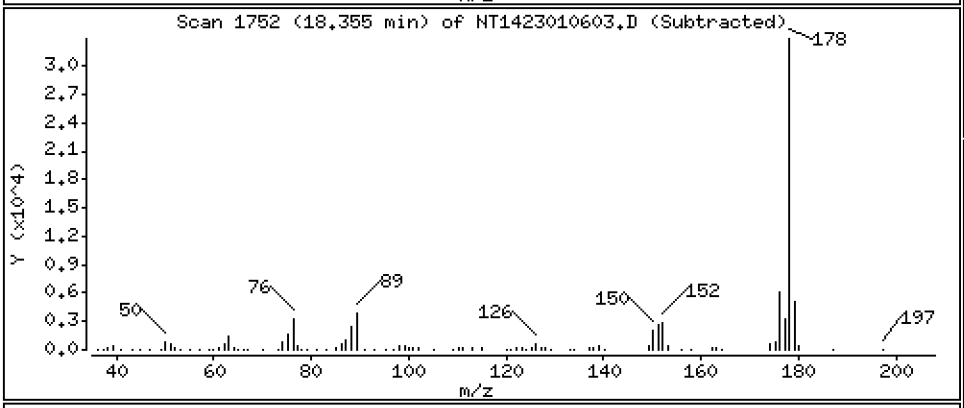
Column phase: ZB-5msi

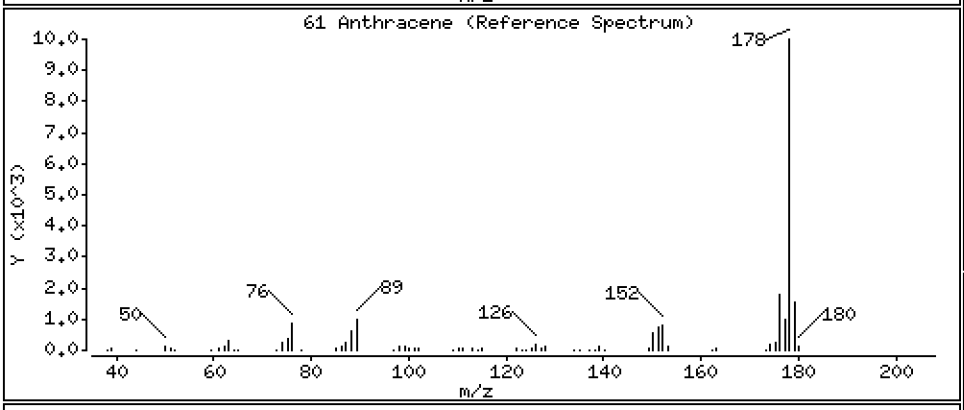
Column diameter: 0.25

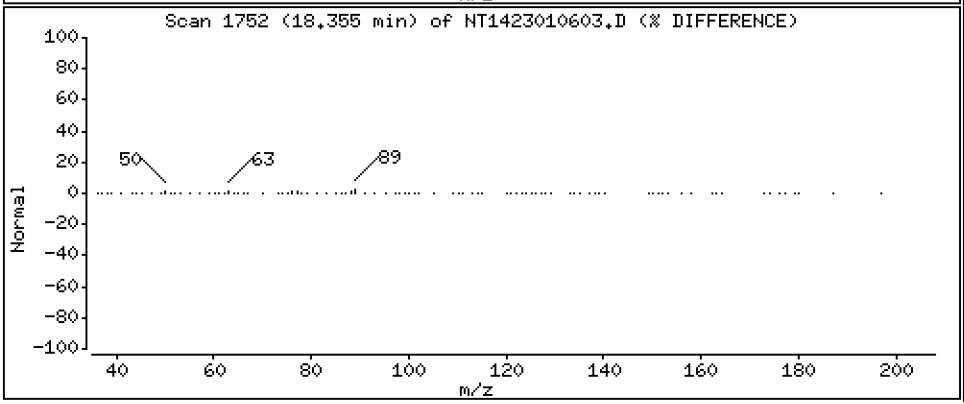
61 Anthracene

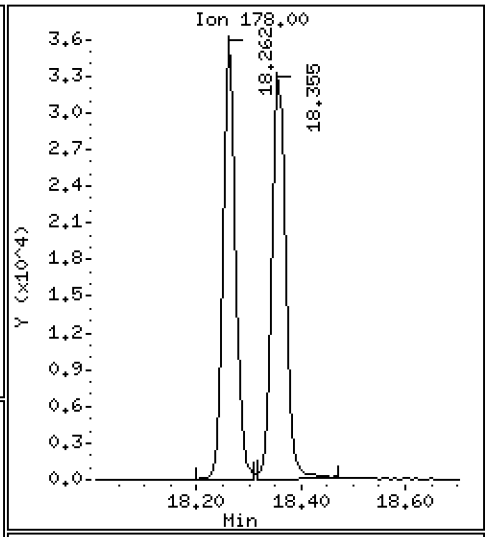
Concentration: 0.4594 ug/mL

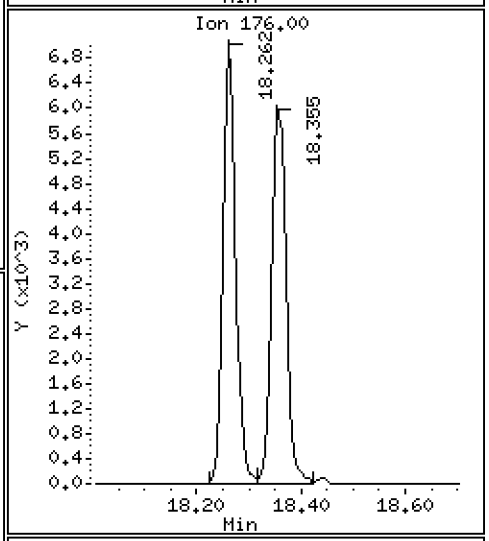


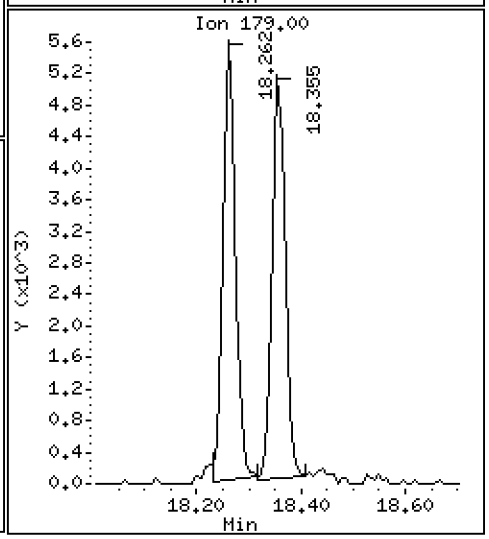












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

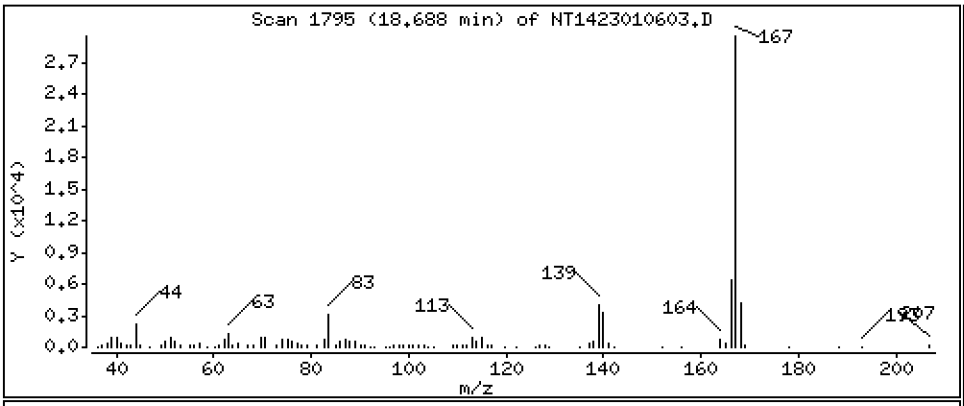
Operator: VTS

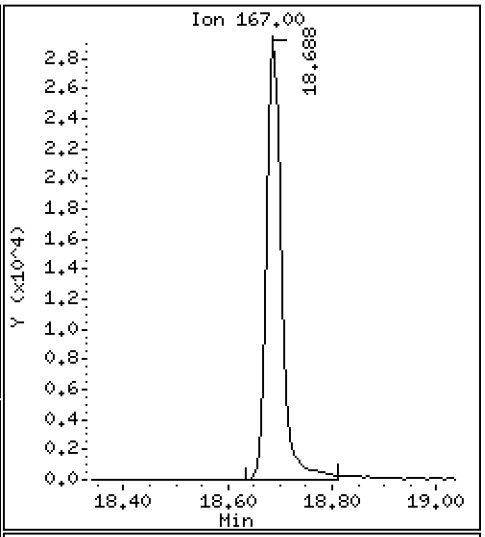
Column phase: ZB-5msi

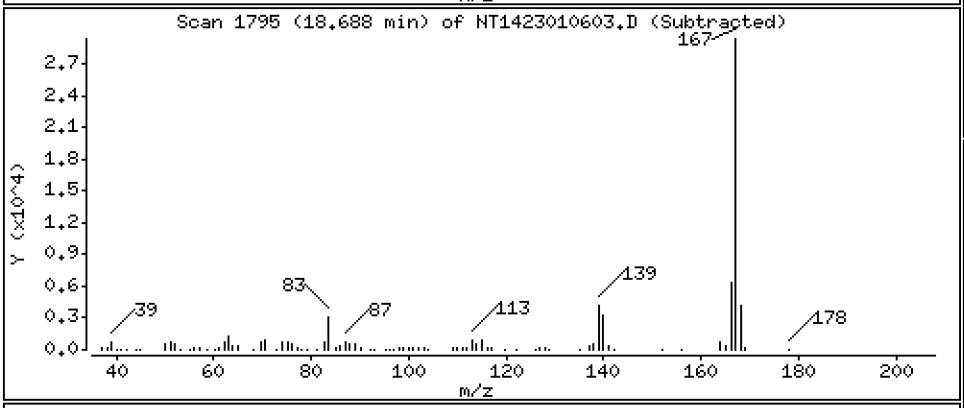
Column diameter: 0.25

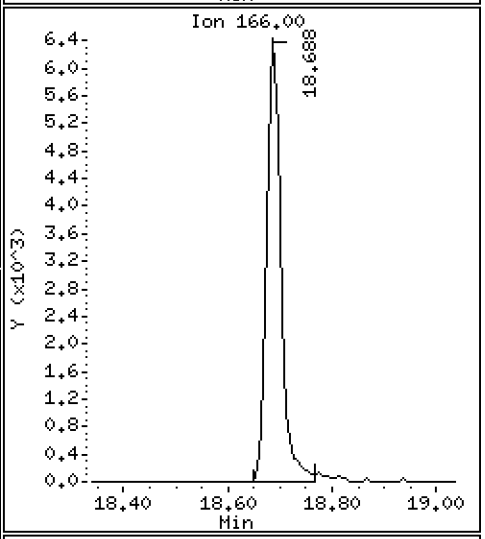
62 Carbazole

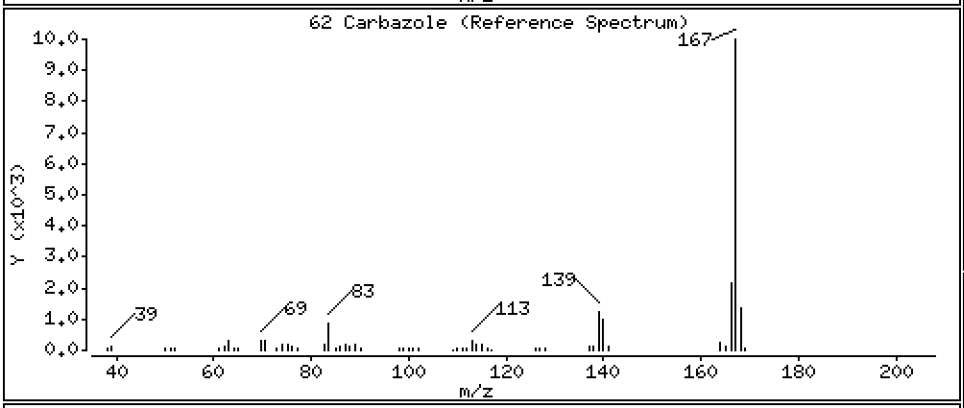
Concentration: 0.4620 ug/mL

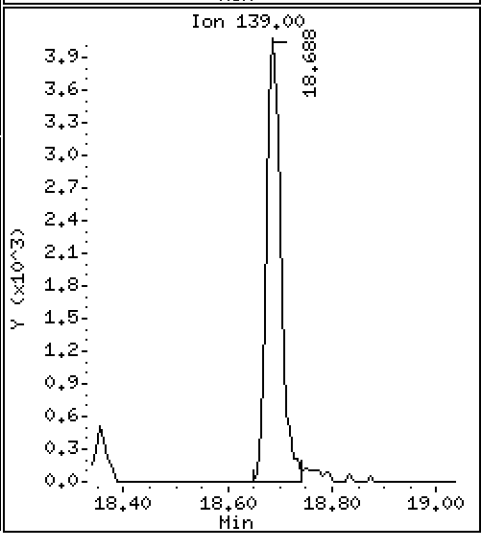


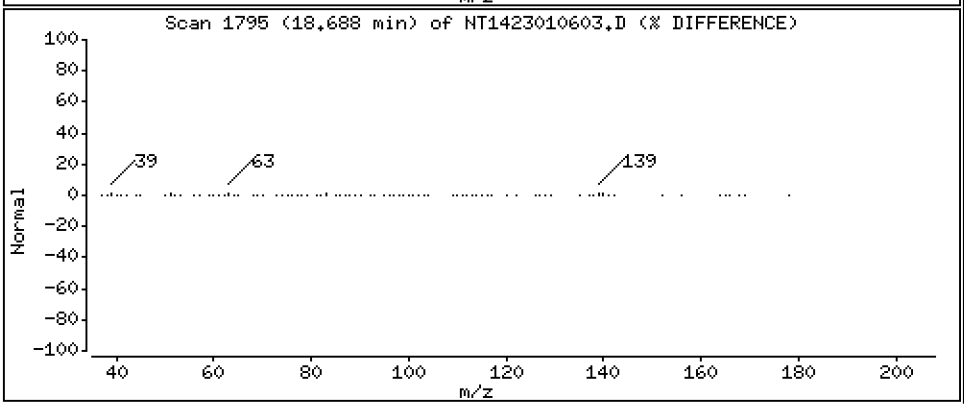












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

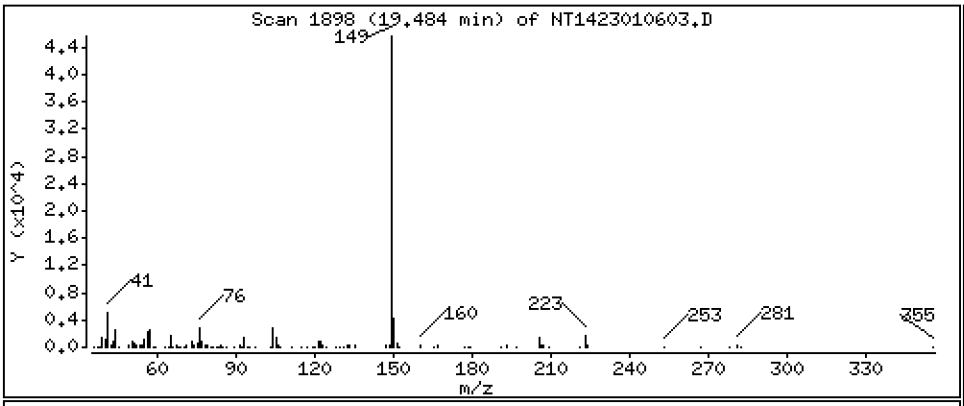
Operator: VTS

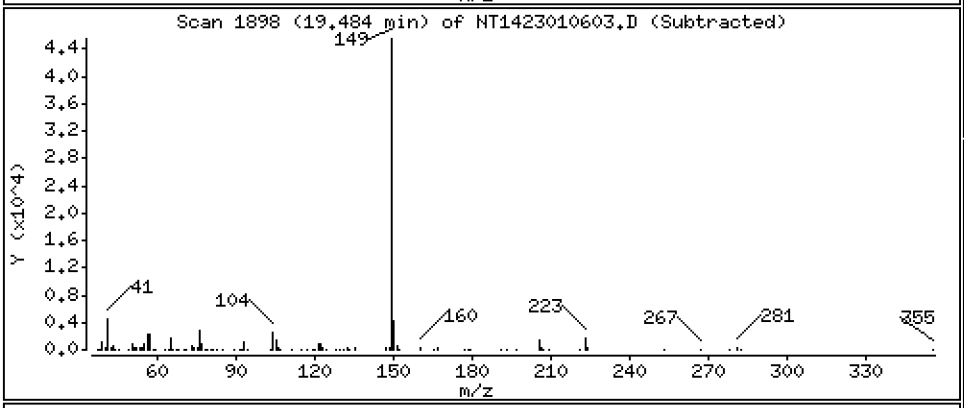
Column phase: ZB-5msi

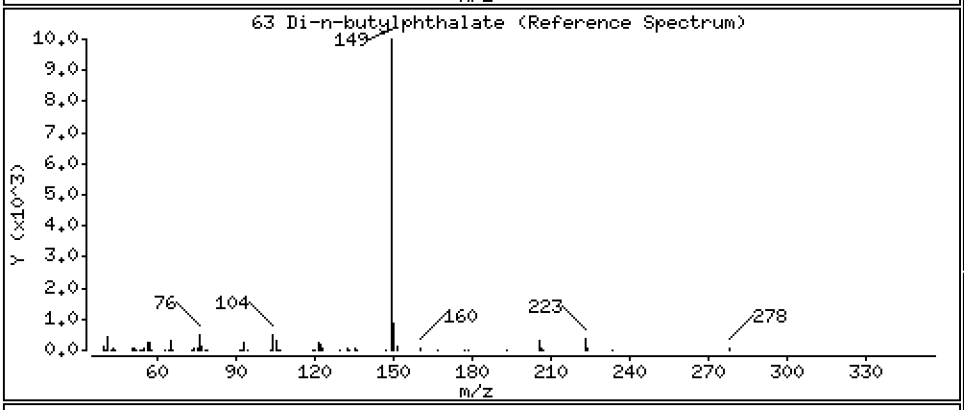
Column diameter: 0.25

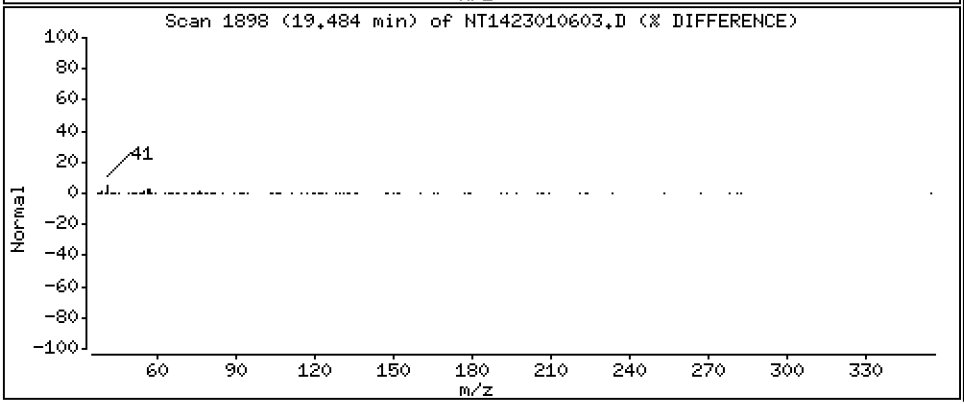
63 Di-n-butylphthalate

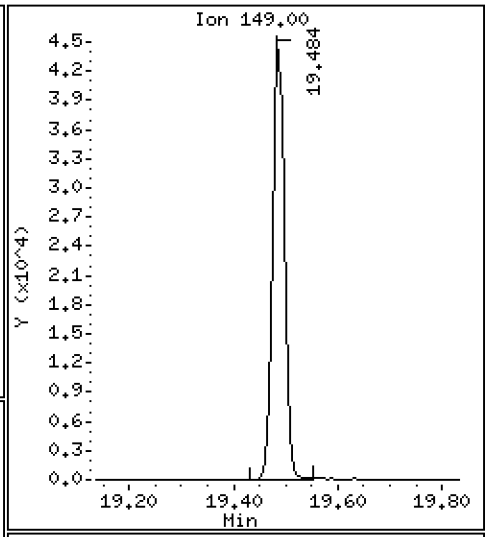
Concentration: 0.4795 ug/mL

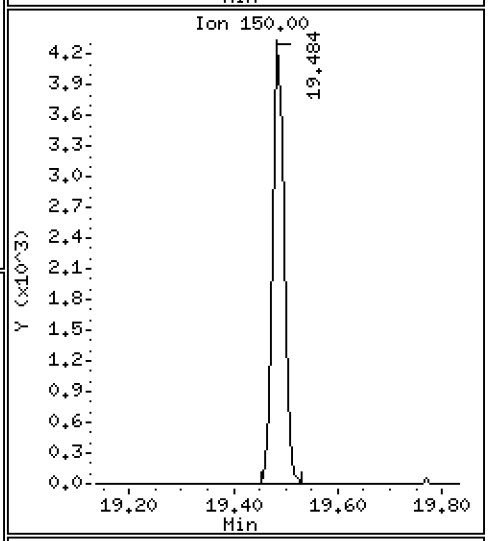


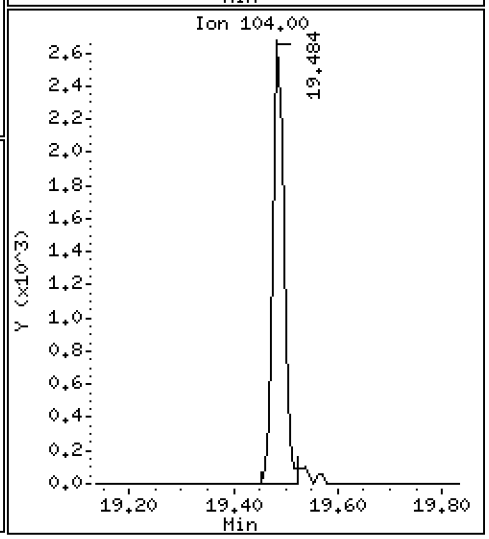












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

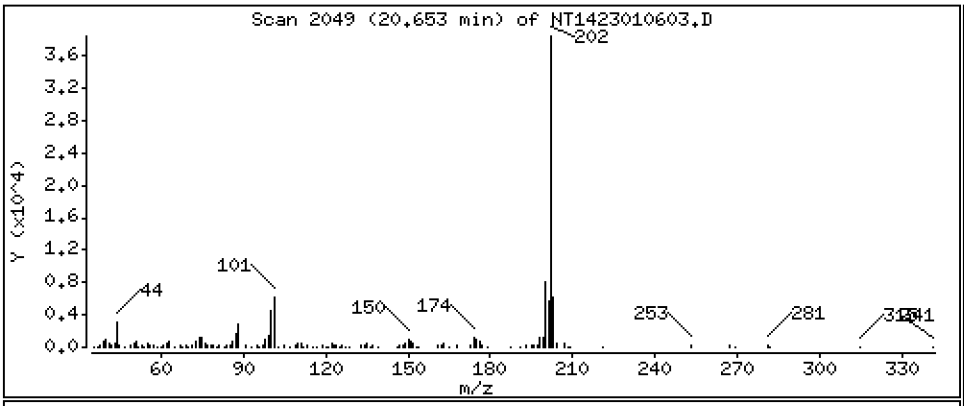
Operator: VTS

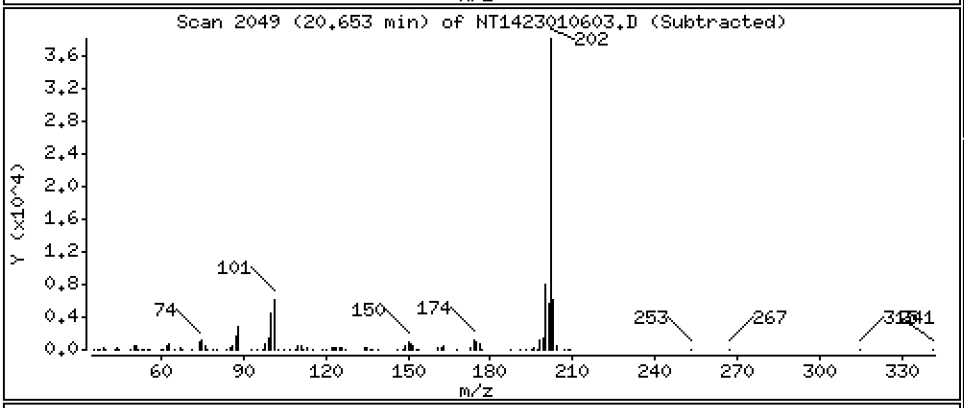
Column phase: ZB-5msi

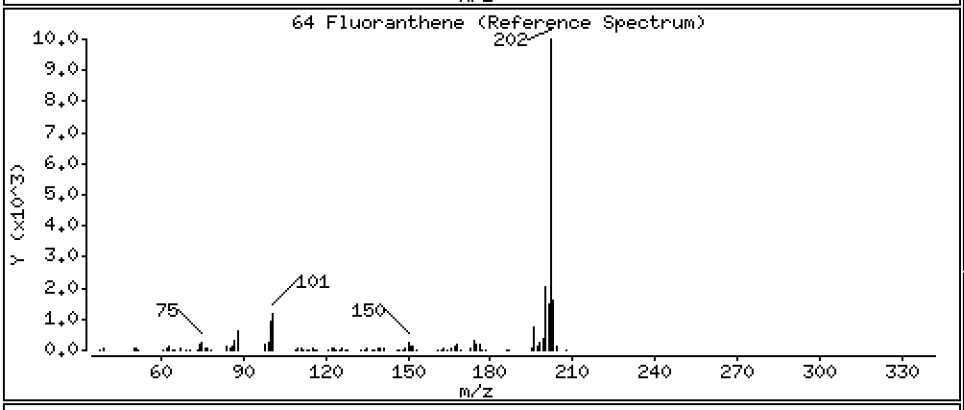
Column diameter: 0.25

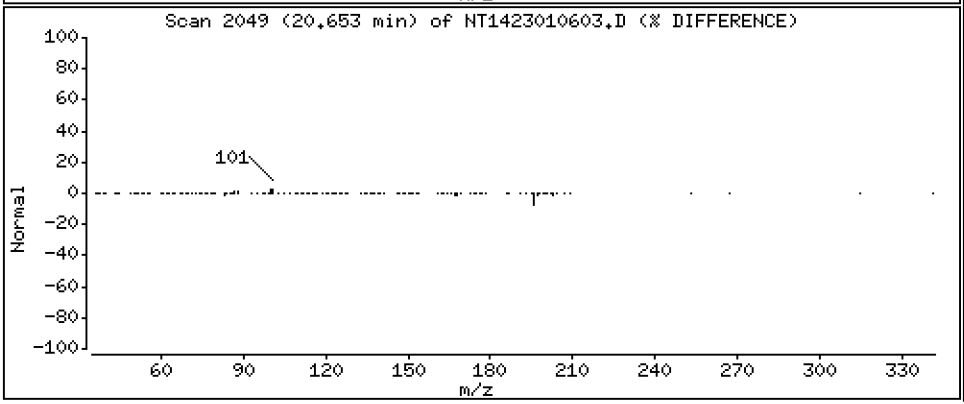
64 Fluoranthene

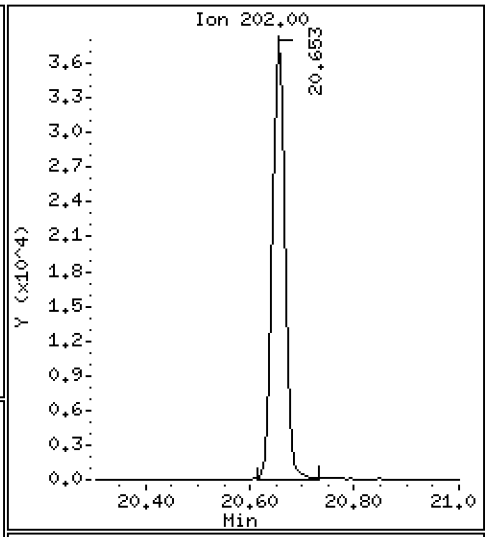
Concentration: 0.4865 ug/mL

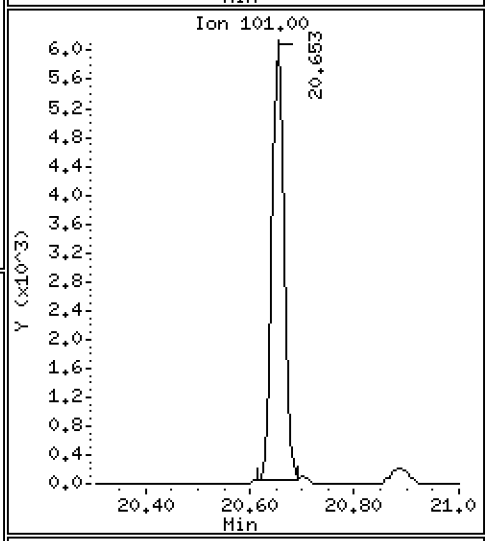


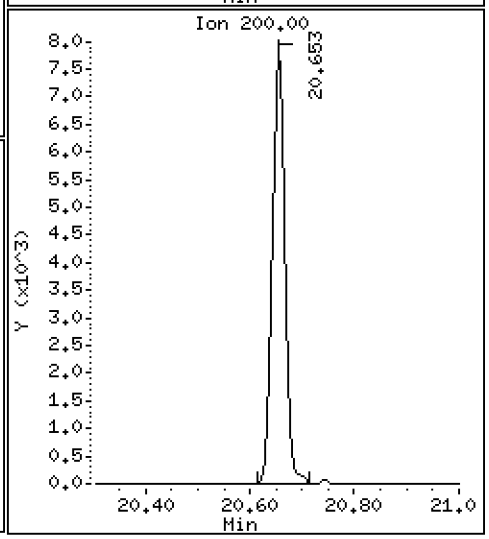












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

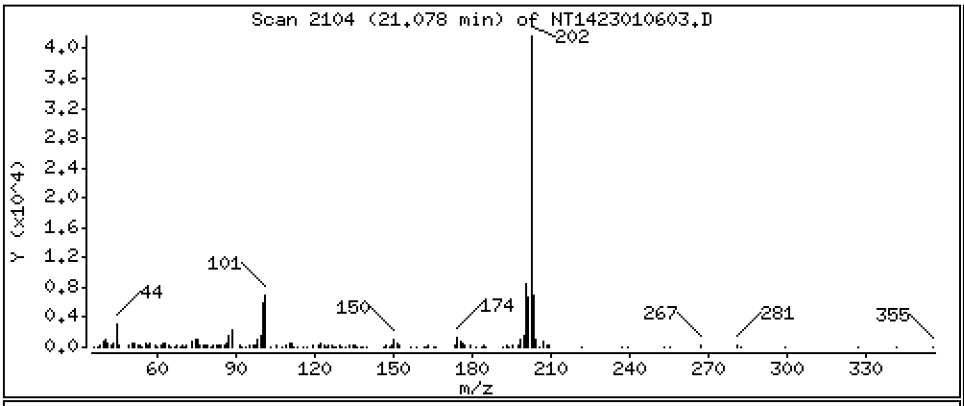
Operator: VTS

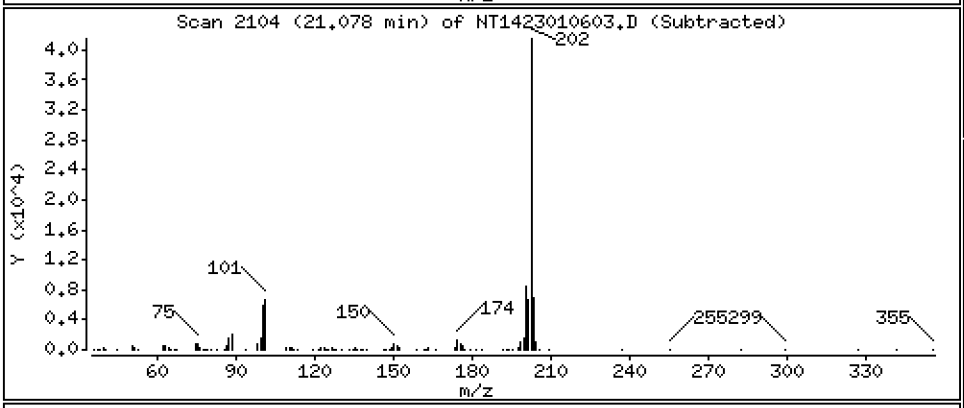
Column phase: ZB-5msi

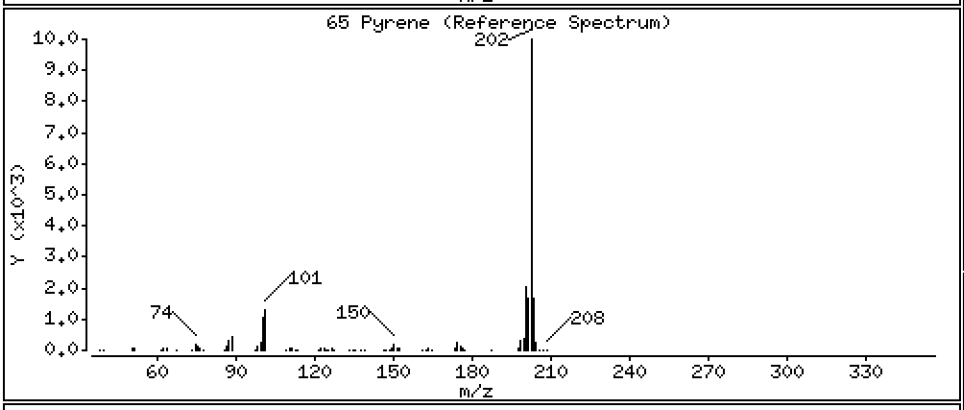
Column diameter: 0.25

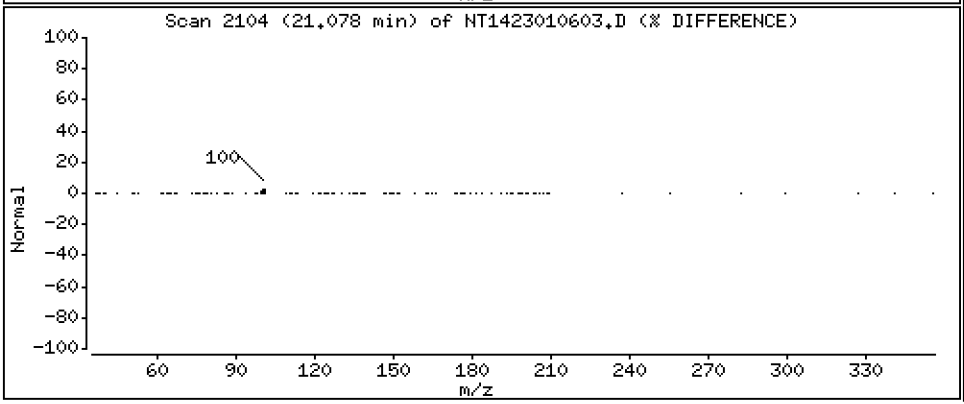
65 Pyrene

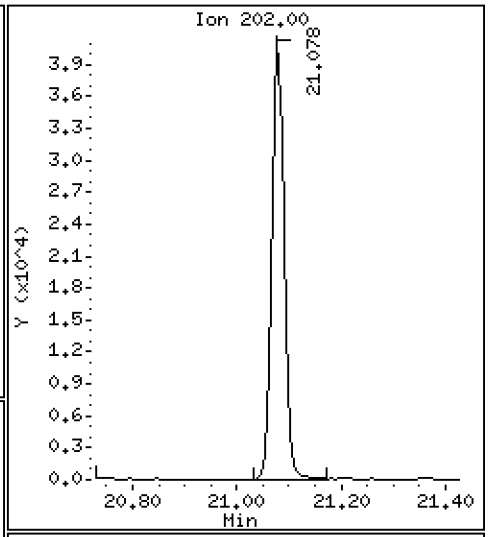
Concentration: 0.4855 ug/mL

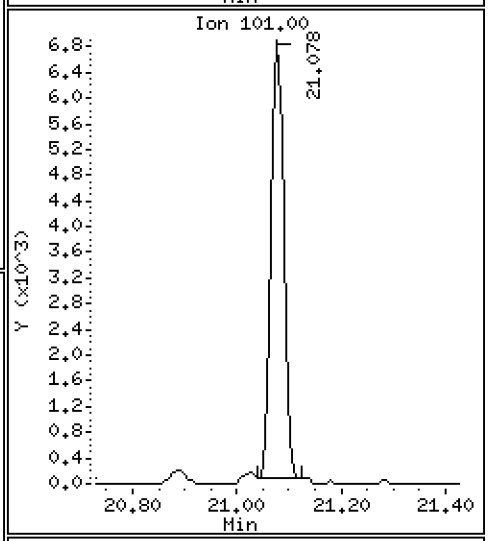


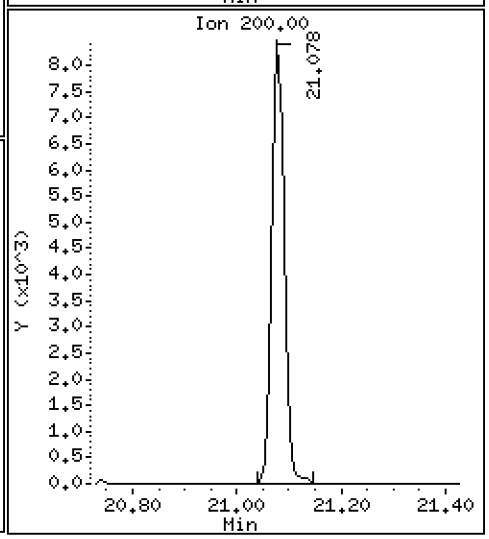












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

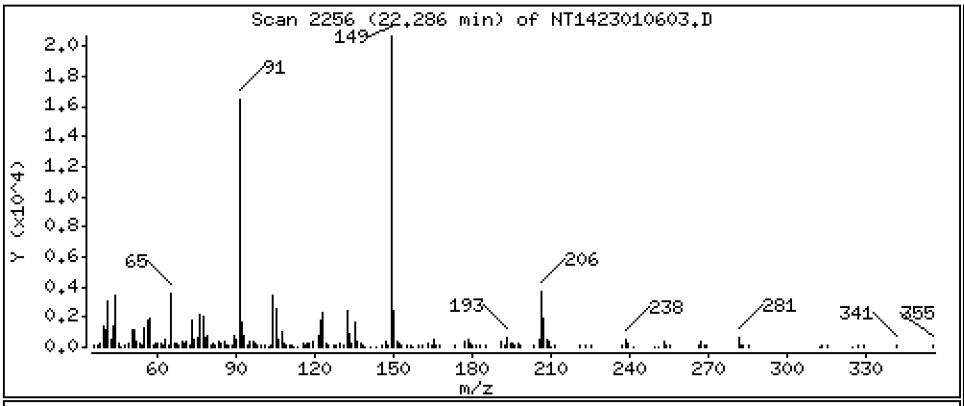
Operator: VTS

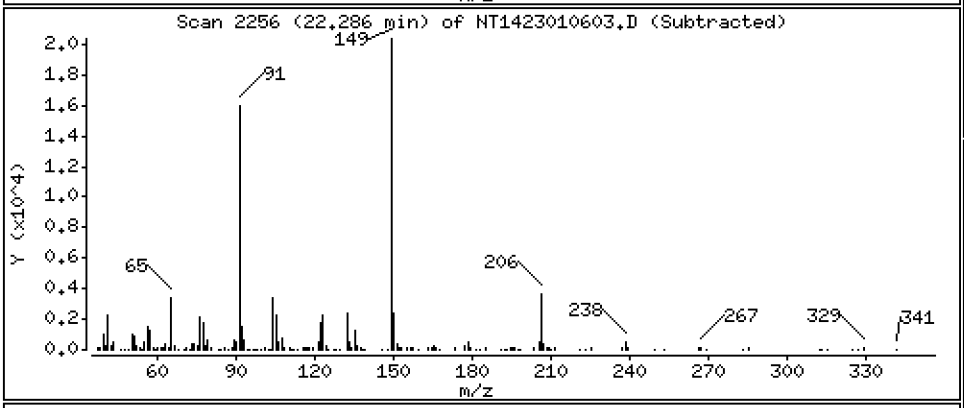
Column phase: ZB-5msi

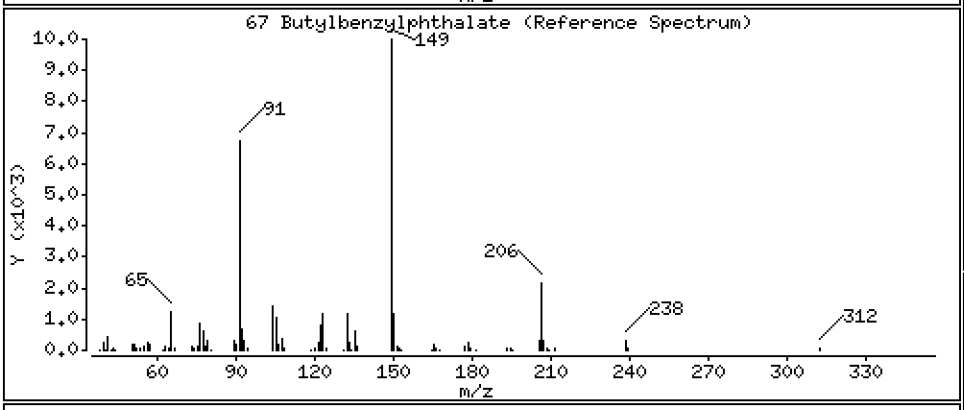
Column diameter: 0.25

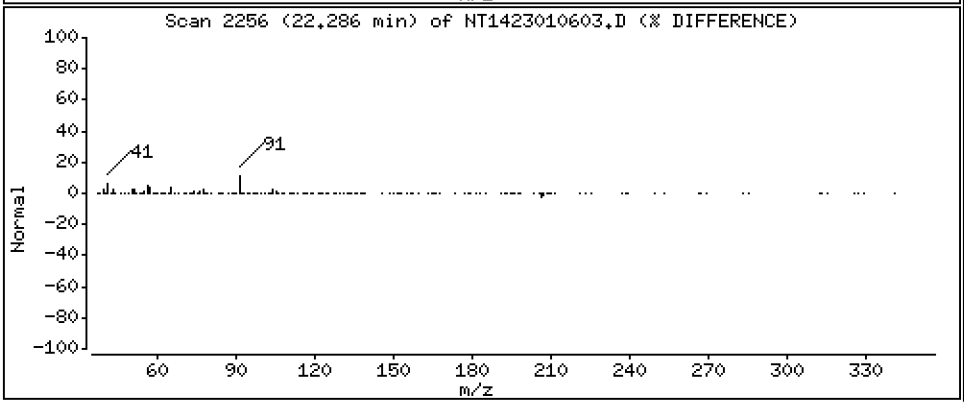
67 Butylbenzylphthalate

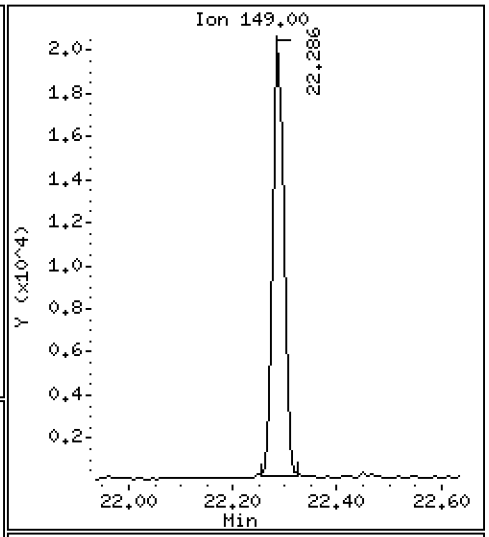
Concentration: 0.5646 ug/mL

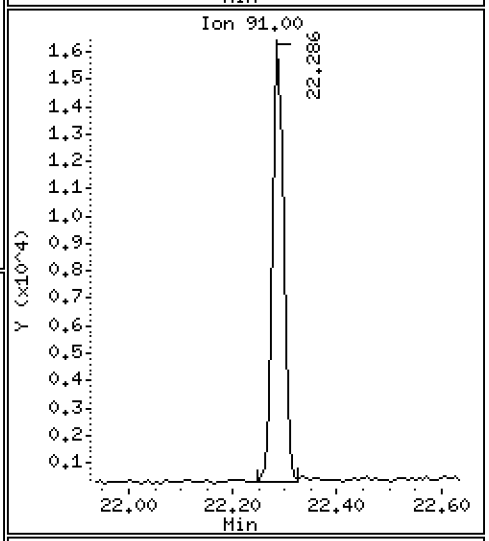


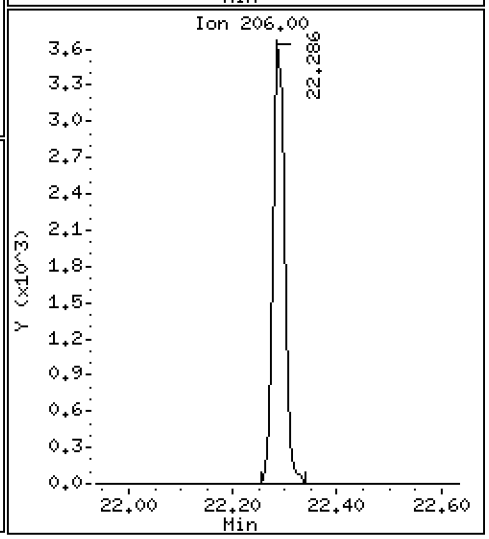












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

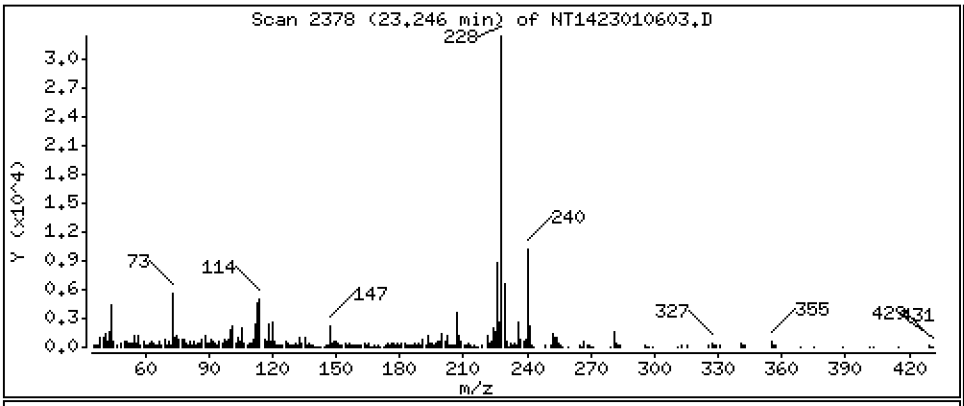
Operator: VTS

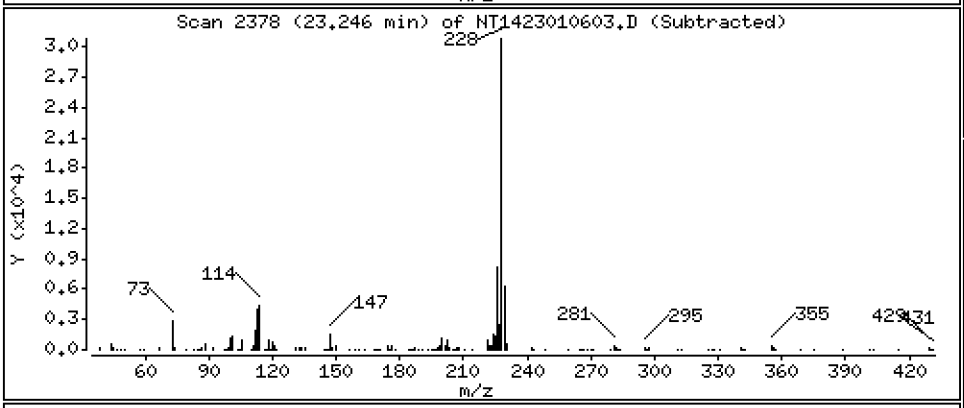
Column phase: ZB-5msi

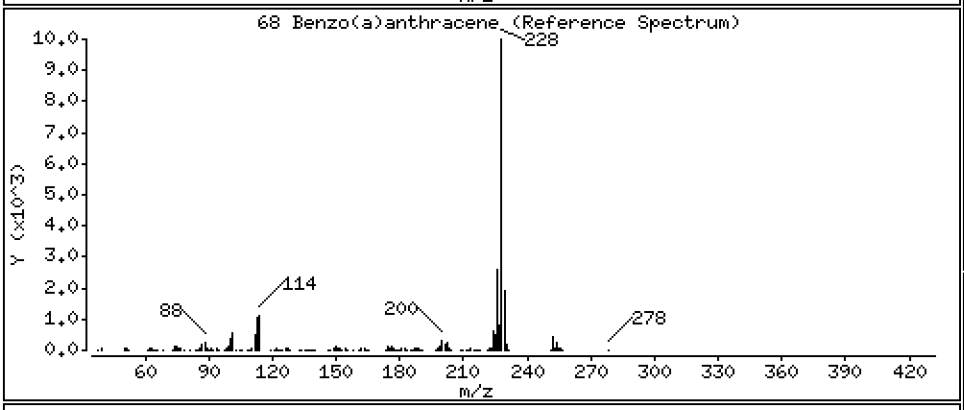
Column diameter: 0.25

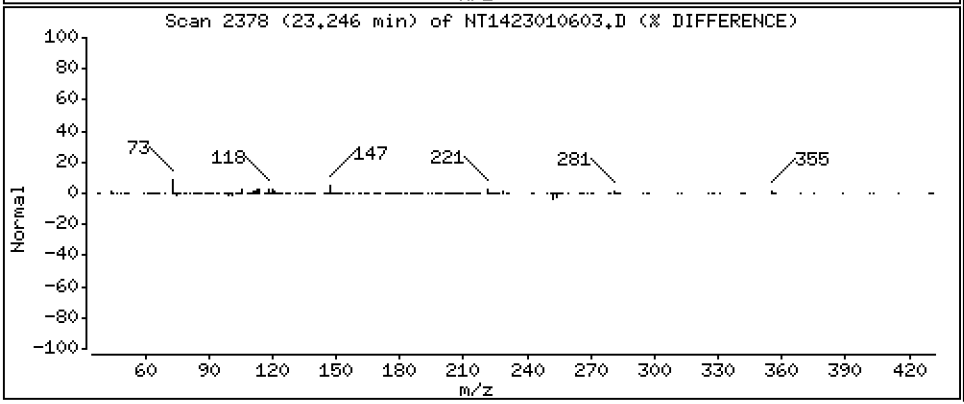
68 Benzo(a)anthracene

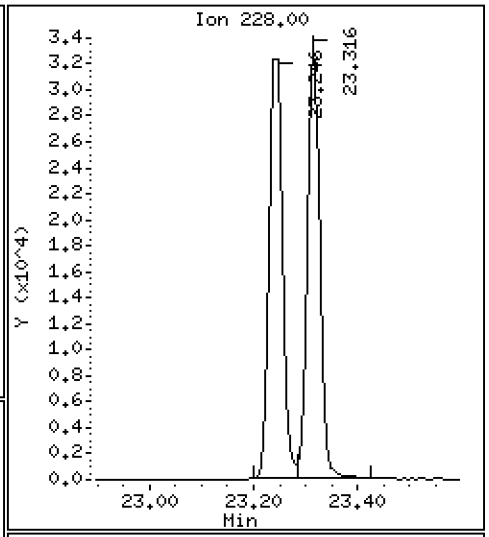
Concentration: 0.4668 ug/mL

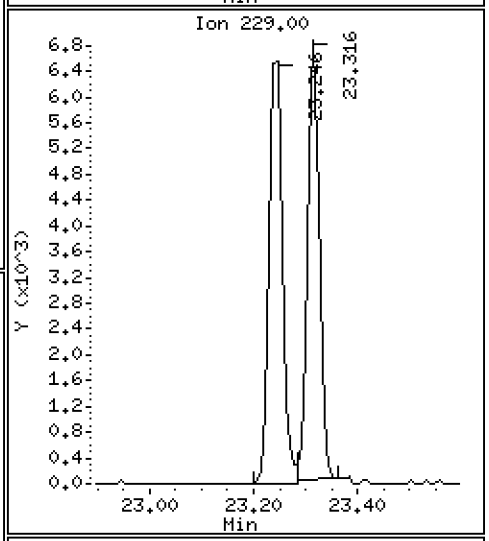


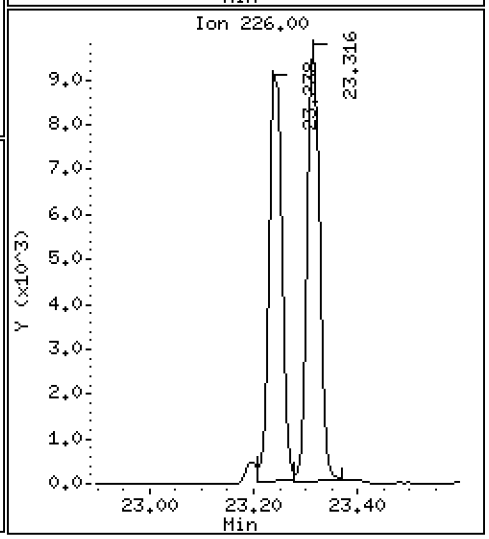












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

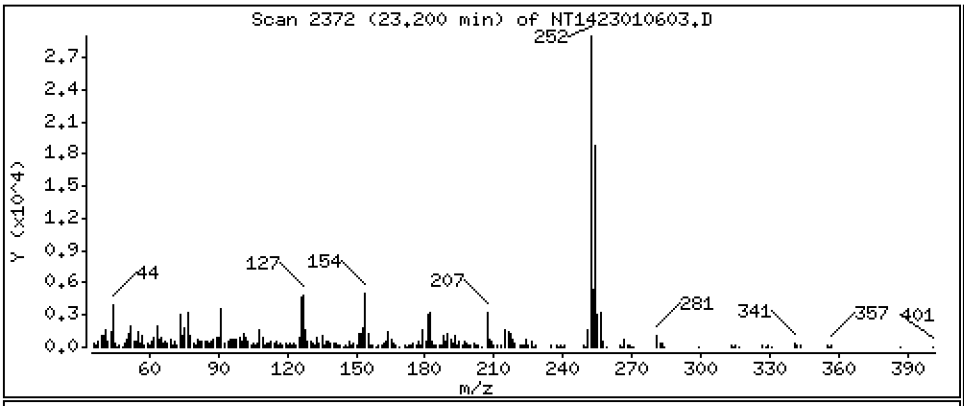
Operator: VTS

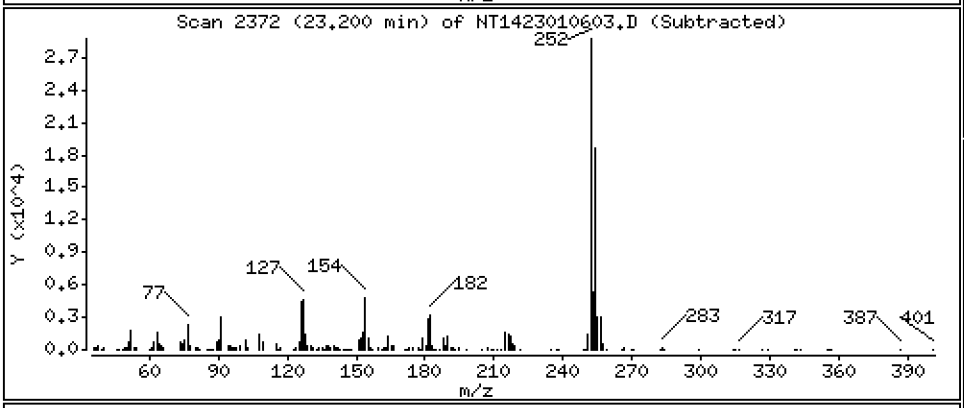
Column phase: ZB-5msi

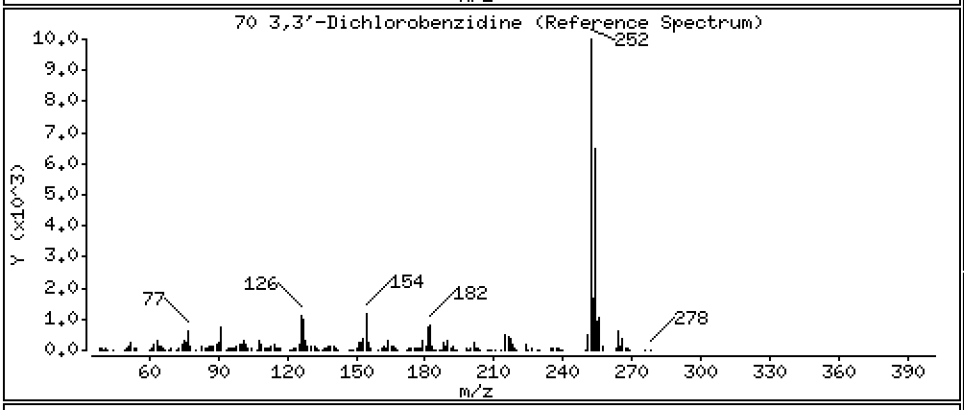
Column diameter: 0.25

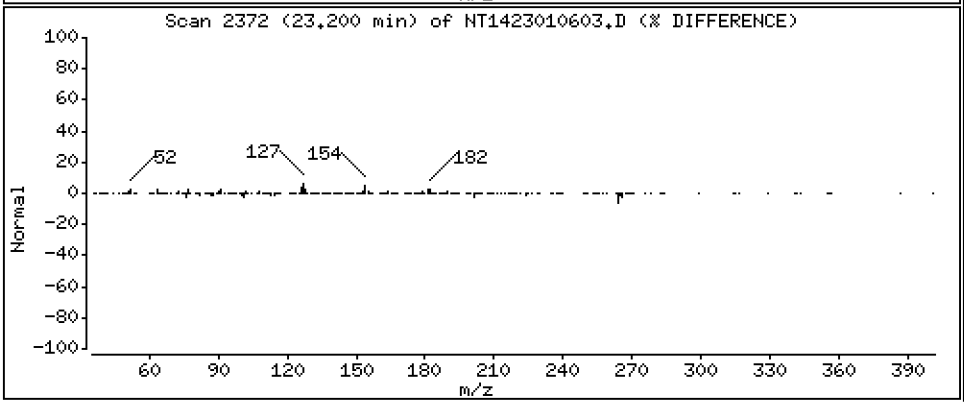
70 3,3'-Dichlorobenzidine

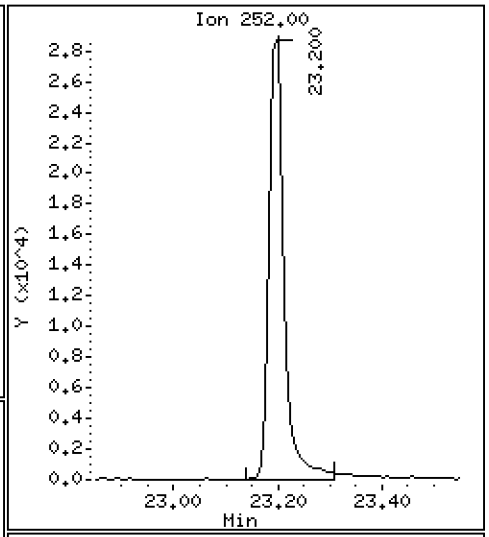
Concentration: 1.548 ug/mL

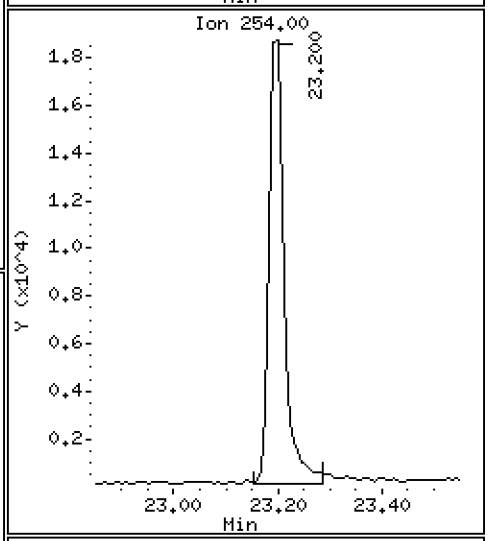


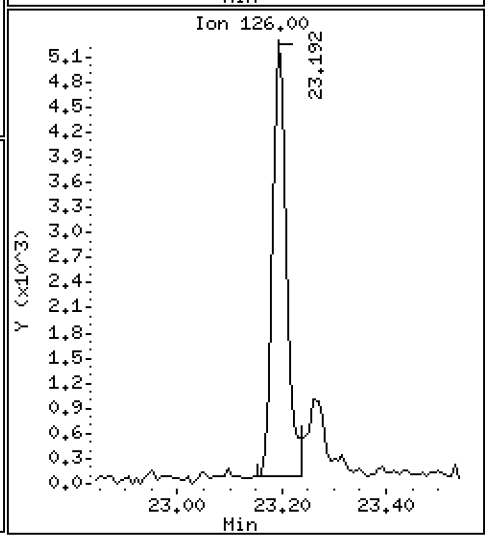












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

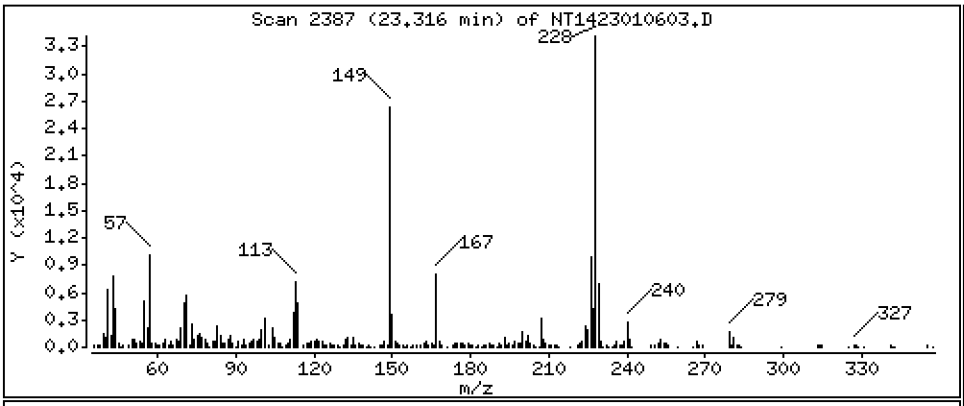
Operator: VTS

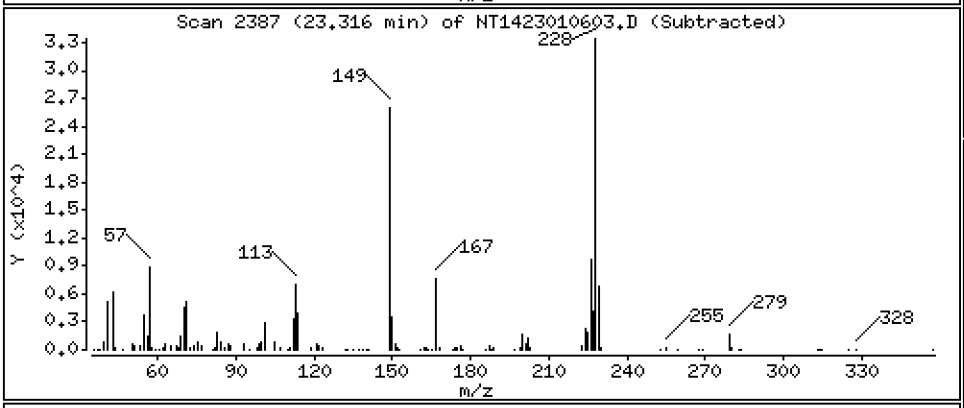
Column phase: ZB-5msi

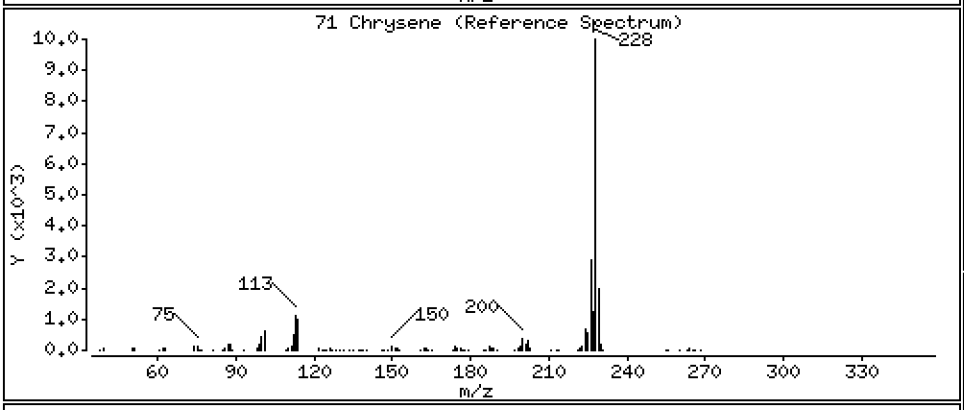
Column diameter: 0.25

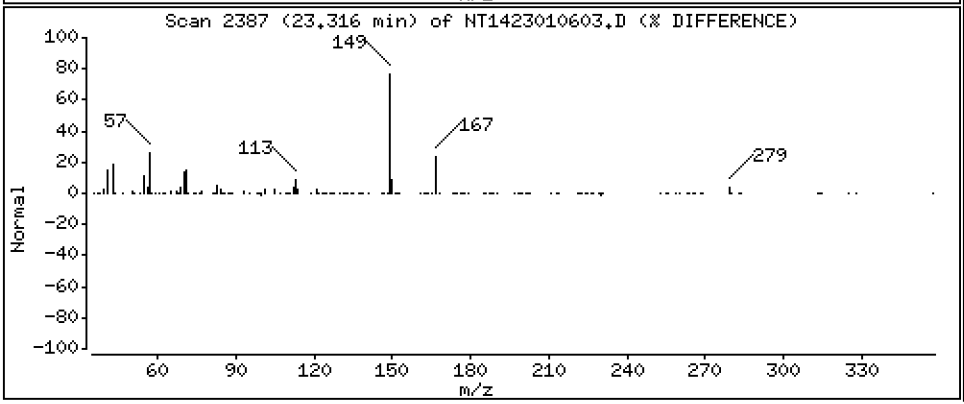
71 Chrysene

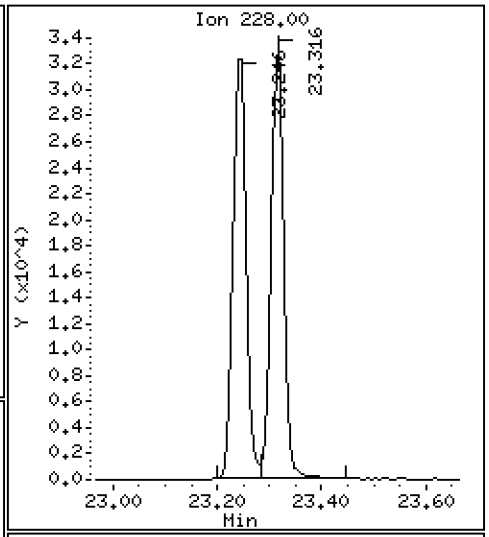
Concentration: 0.4683 ug/mL

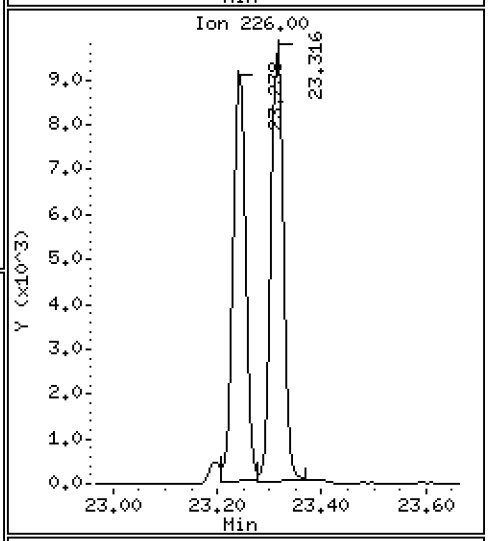


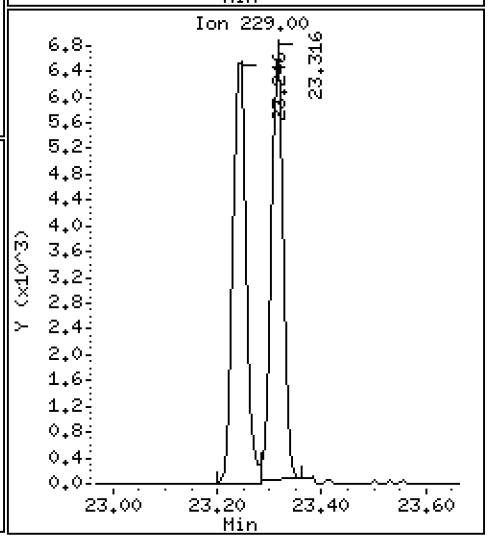












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

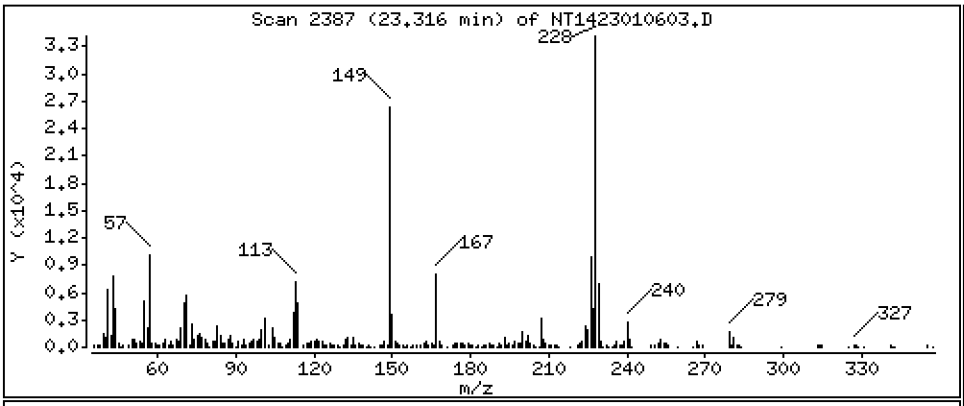
Operator: VTS

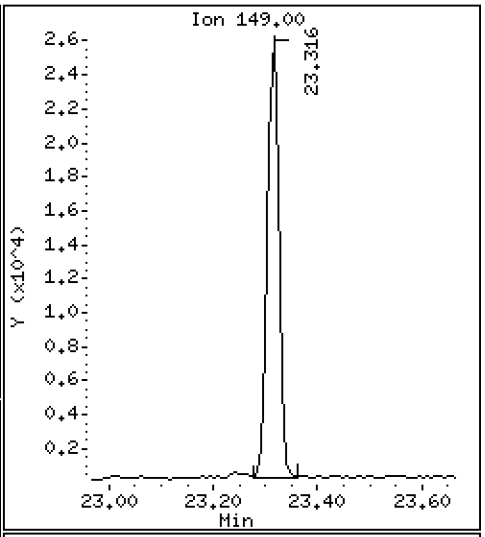
Column phase: ZB-5msi

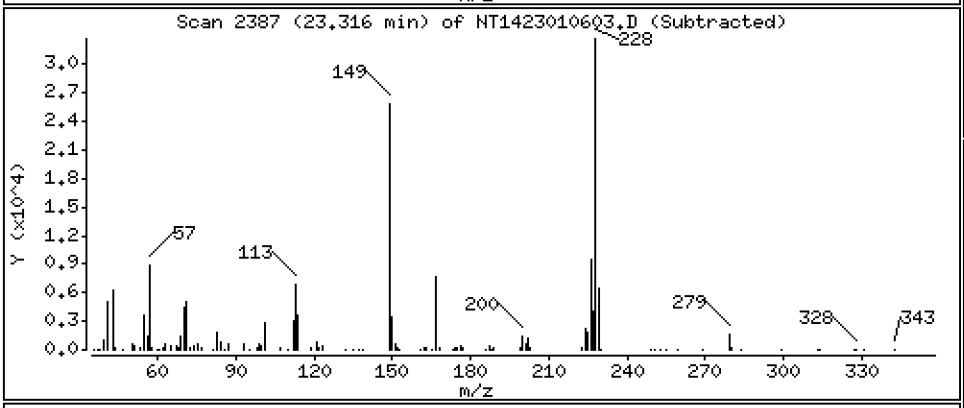
Column diameter: 0.25

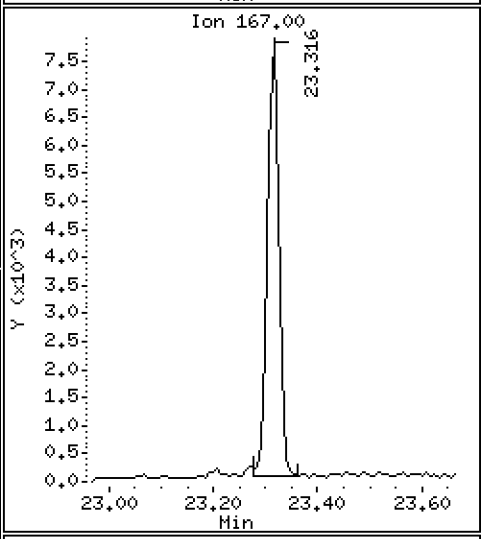
72 bis(2-Ethylhexyl)phthalate

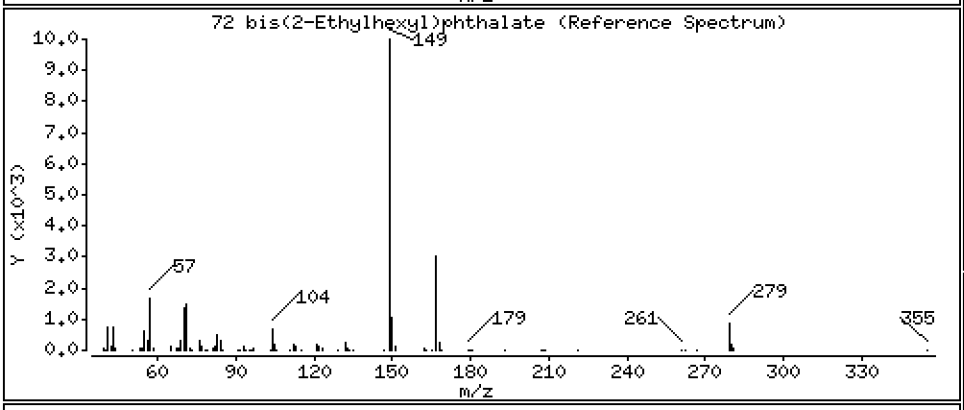
Concentration: 0.4833 ug/mL

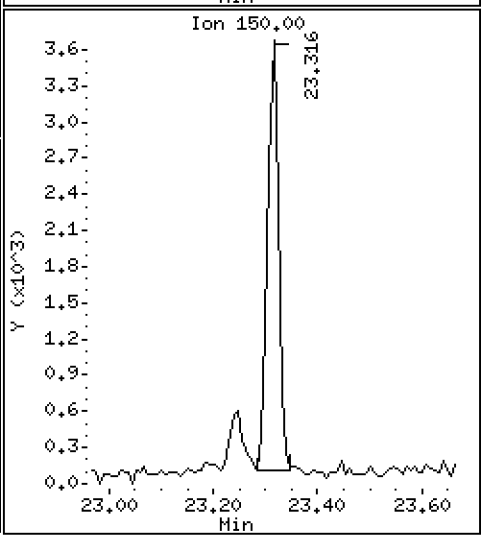


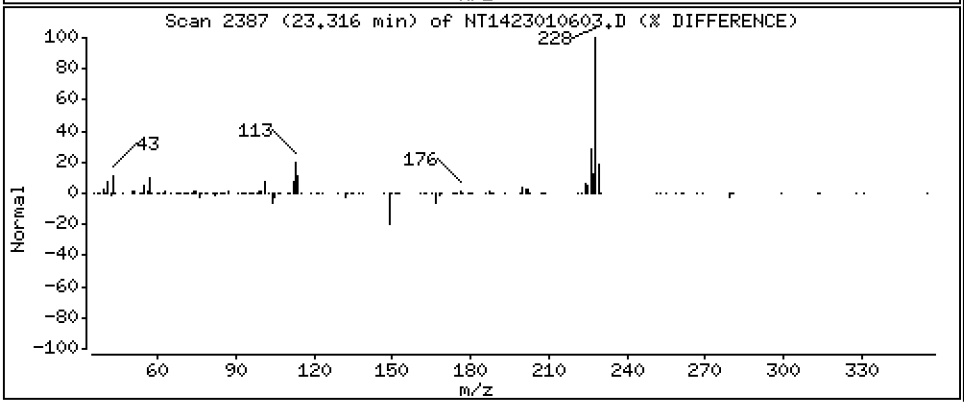












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

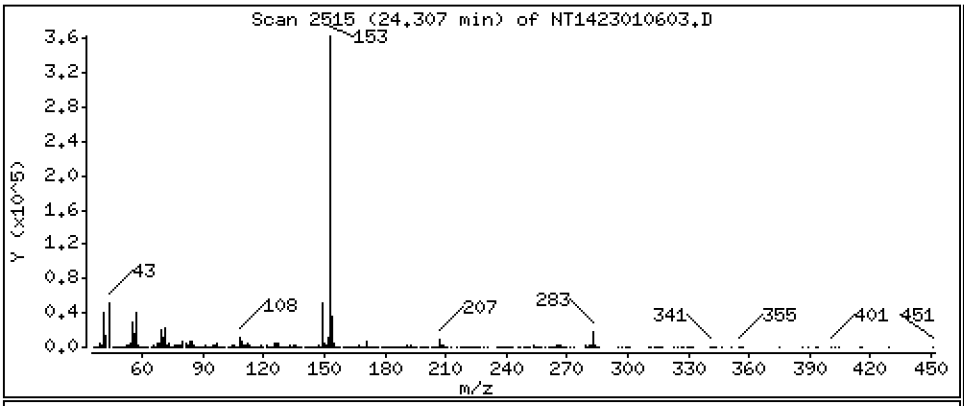
Operator: VTS

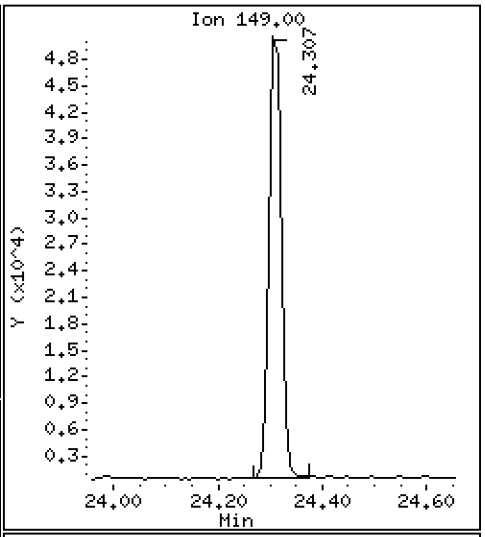
Column phase: ZB-5msi

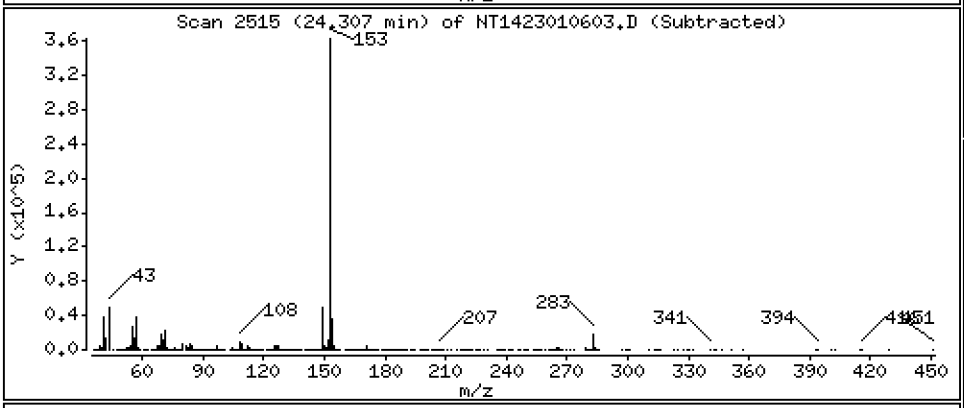
Column diameter: 0.25

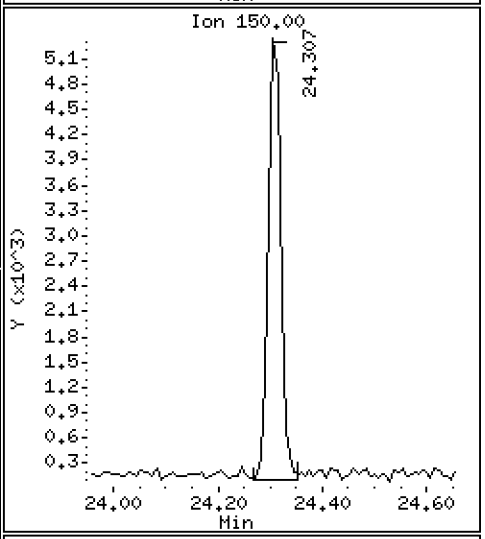
73 Di-n-octylphthalate

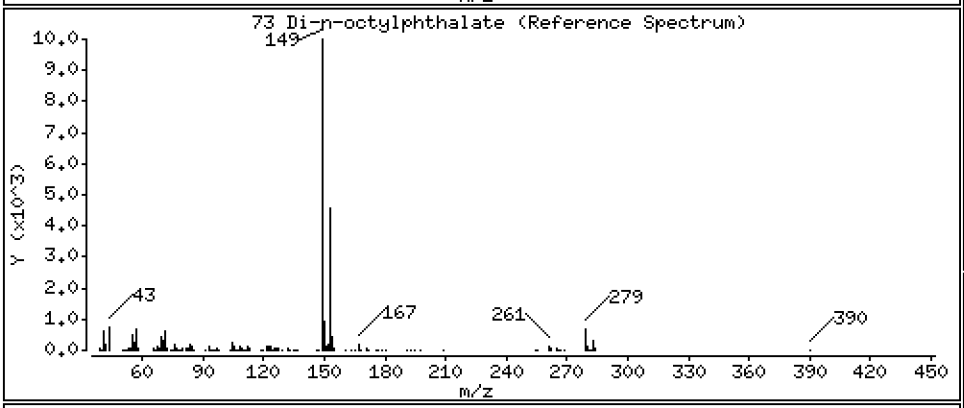
Concentration: 0.4652 ug/mL

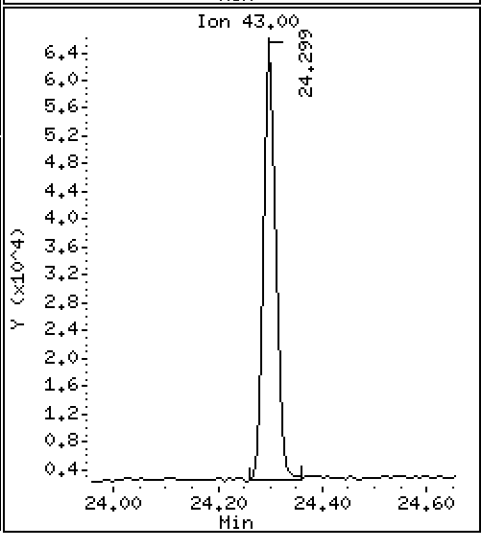


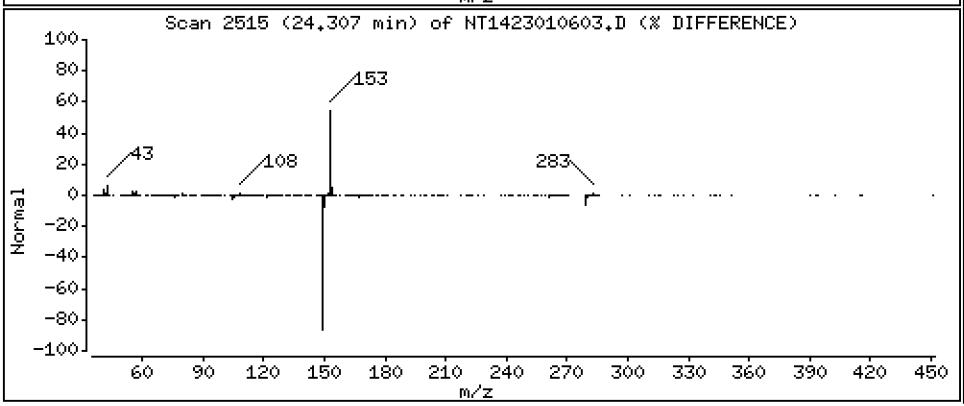












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

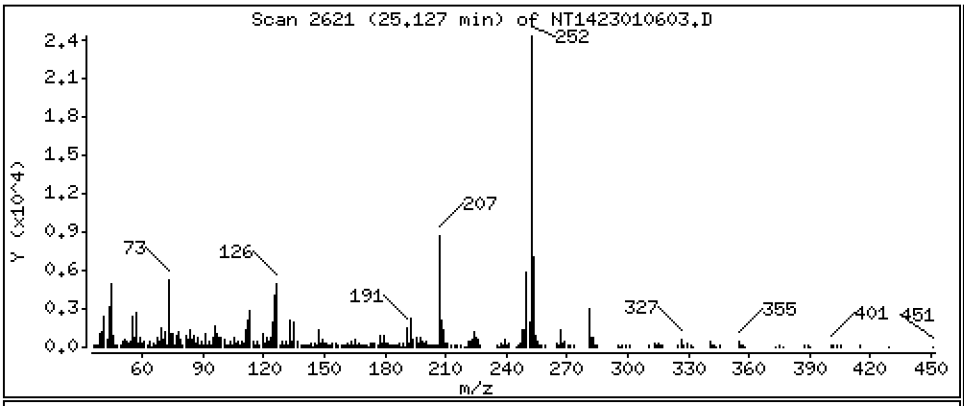
Operator: VTS

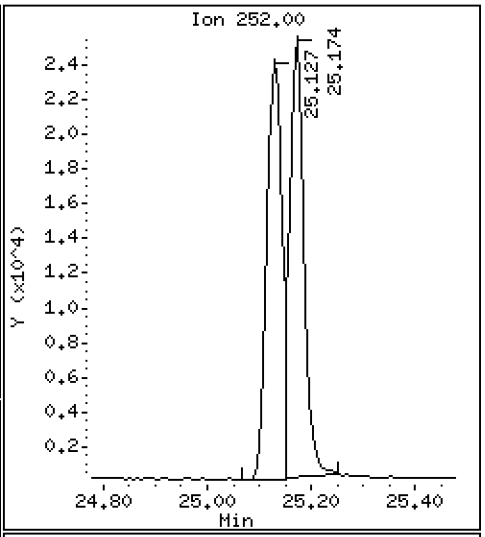
Column phase: ZB-5msi

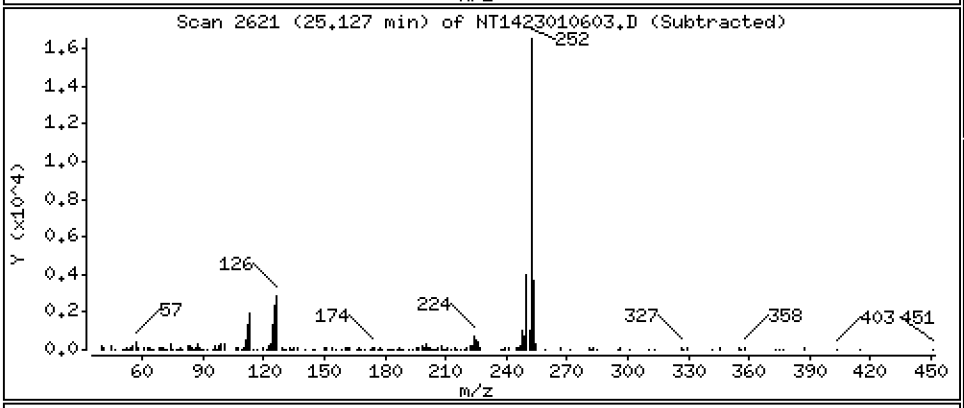
Column diameter: 0.25

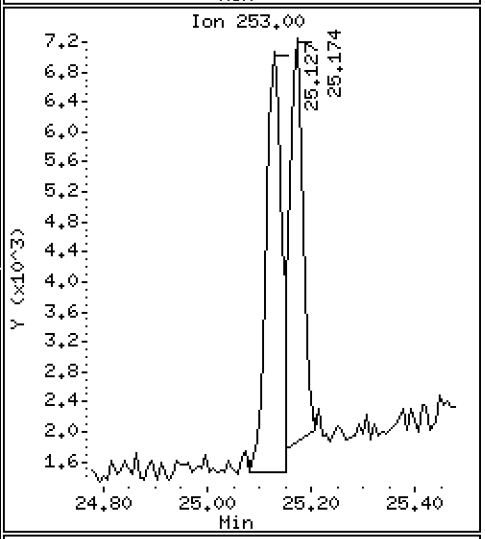
74 Benzo(b)fluoranthene

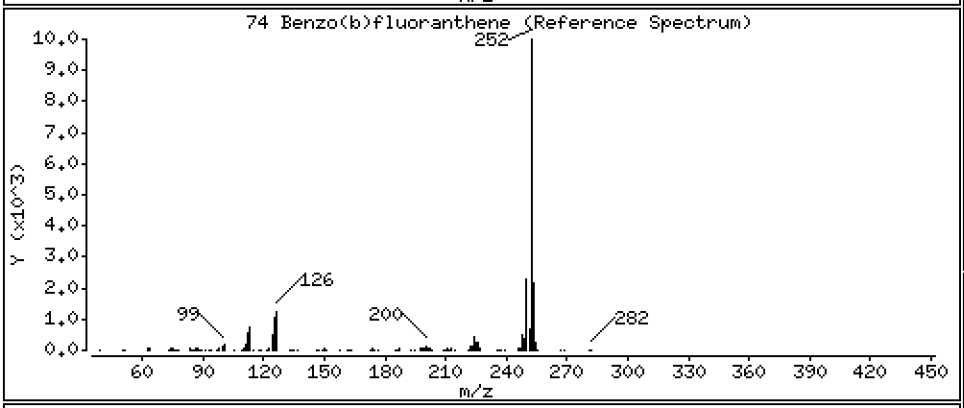
Concentration: 0.4316 ug/mL

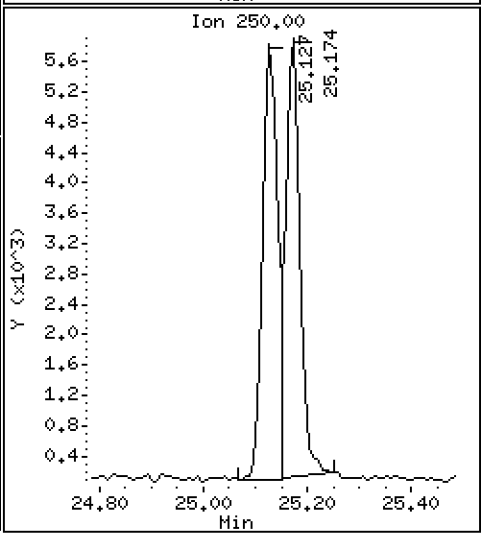


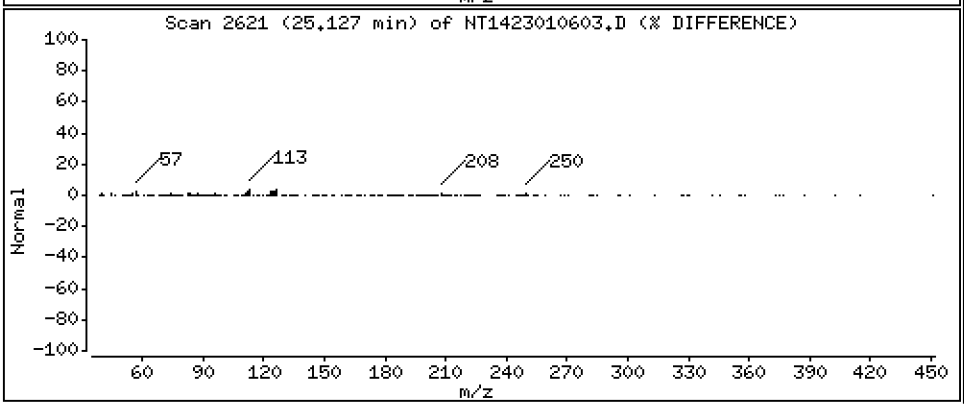












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

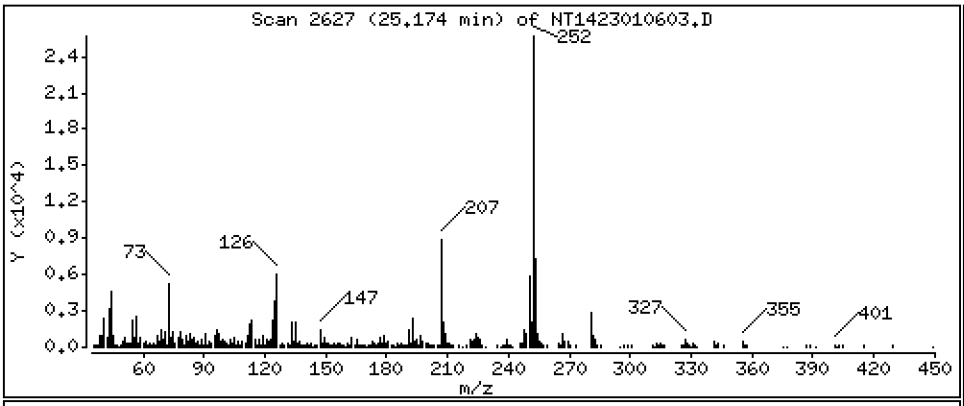
Operator: VTS

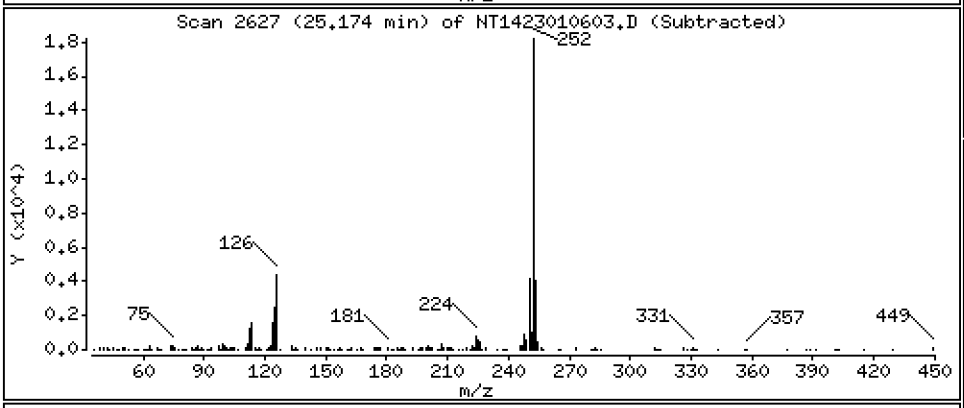
Column phase: ZB-5msi

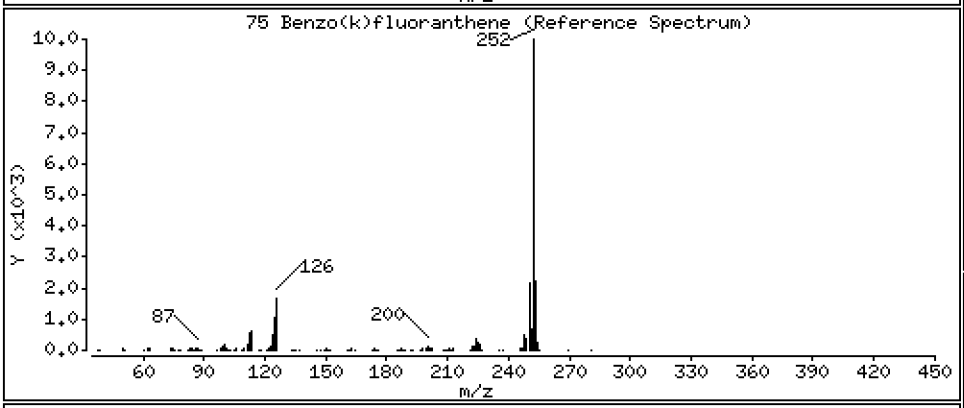
Column diameter: 0.25

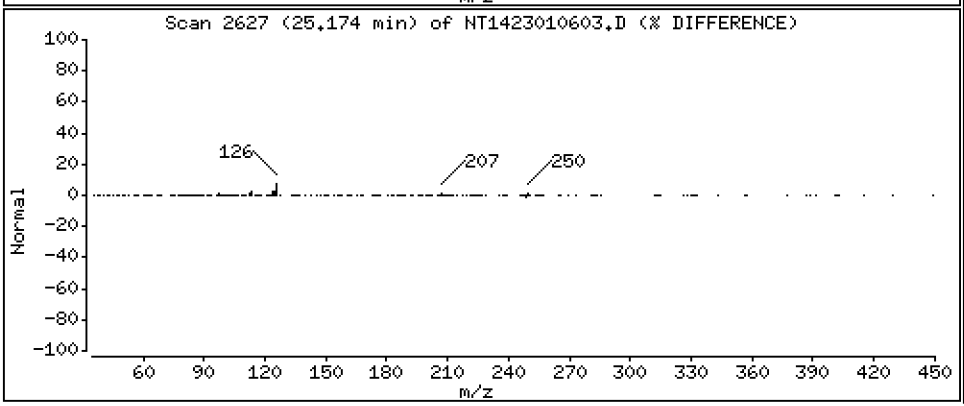
75 Benzo(k)fluoranthene

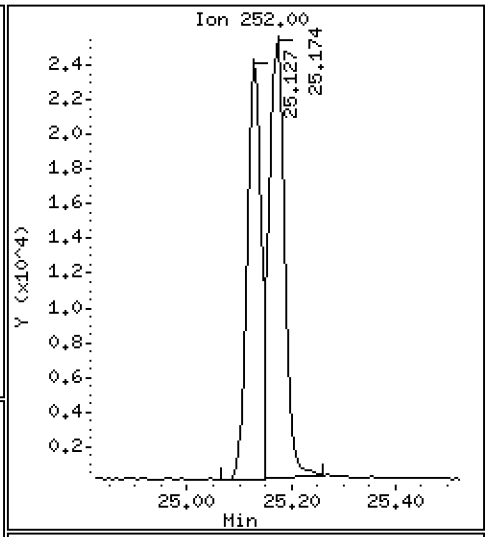
Concentration: 0.4503 ug/mL

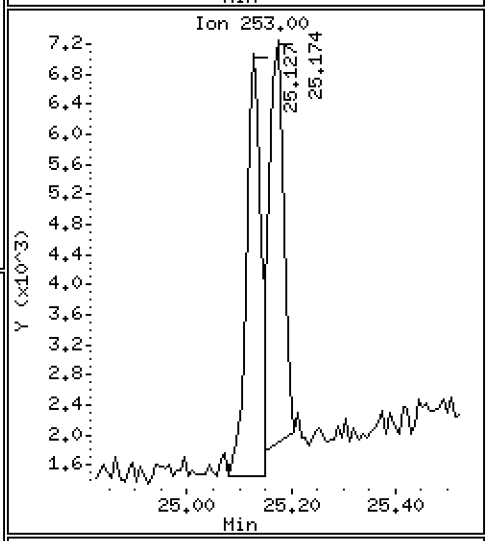


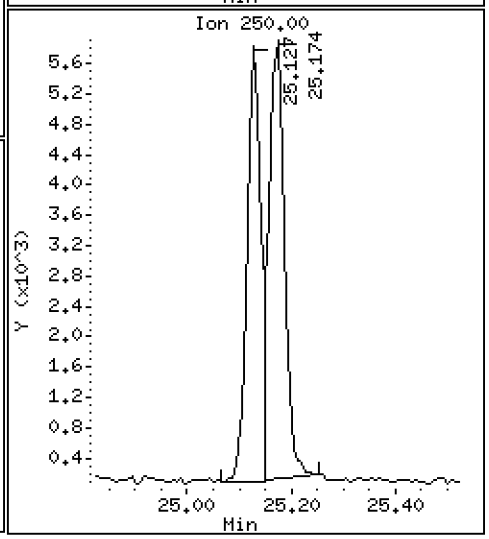












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

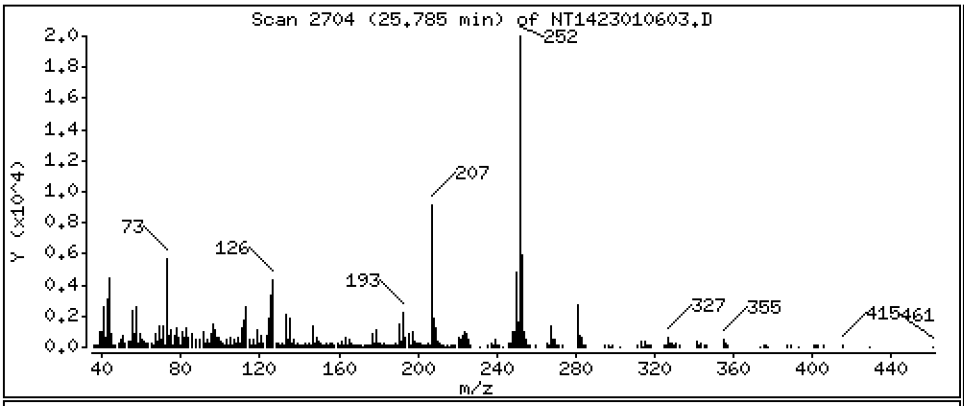
Operator: VTS

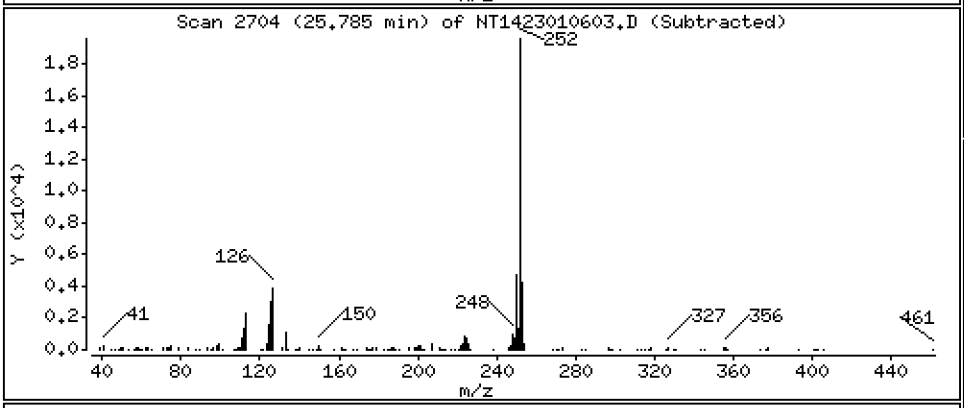
Column phase: ZB-5msi

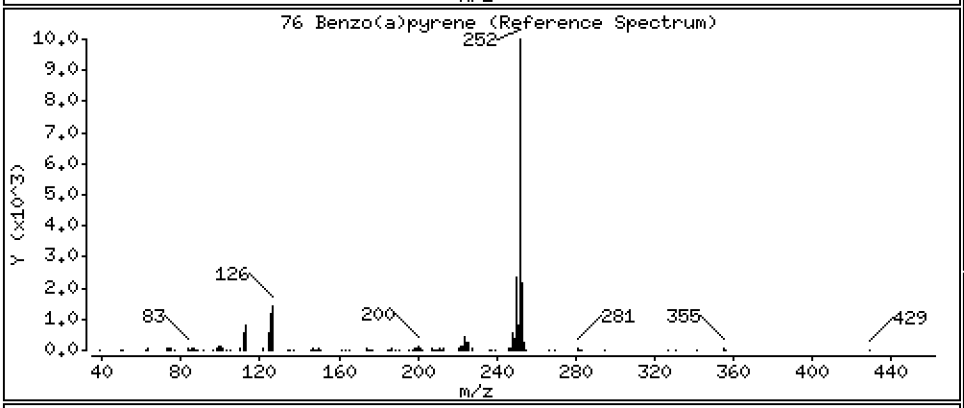
Column diameter: 0.25

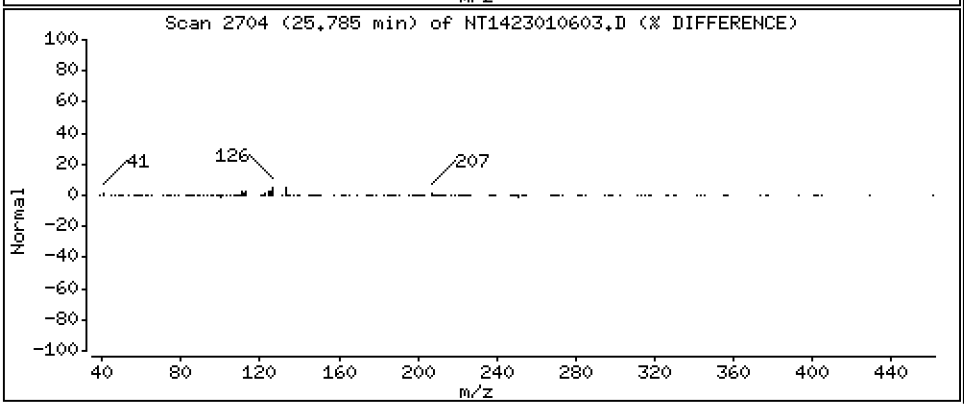
76 Benzo(a)pyrene

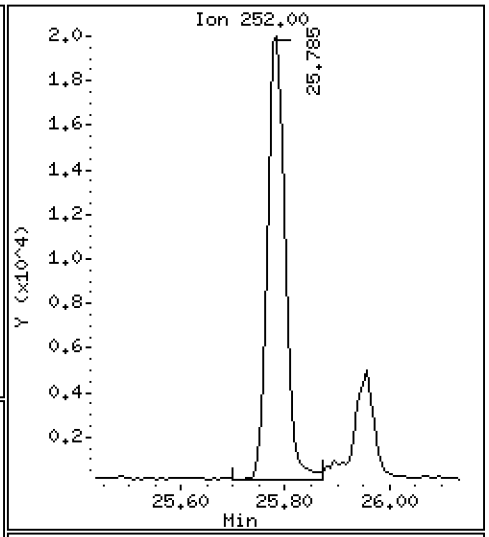
Concentration: 0.4834 ug/mL

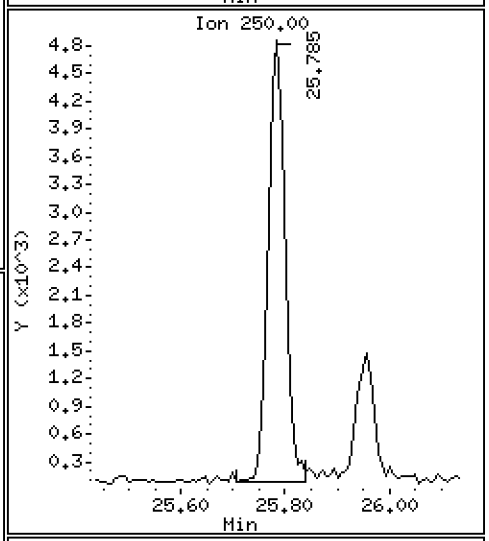


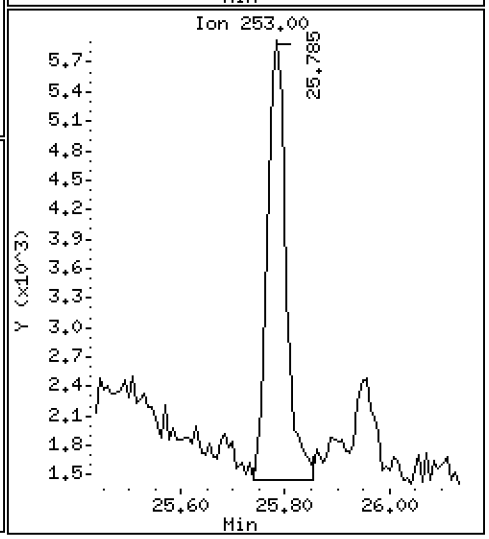












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

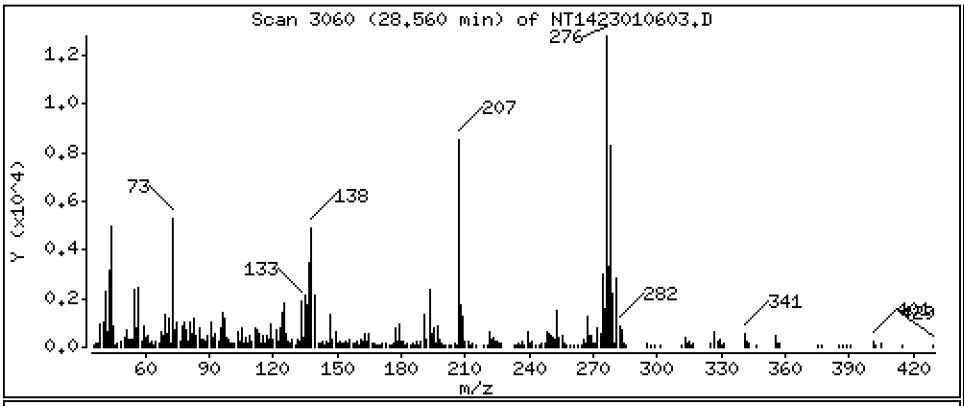
Operator: VTS

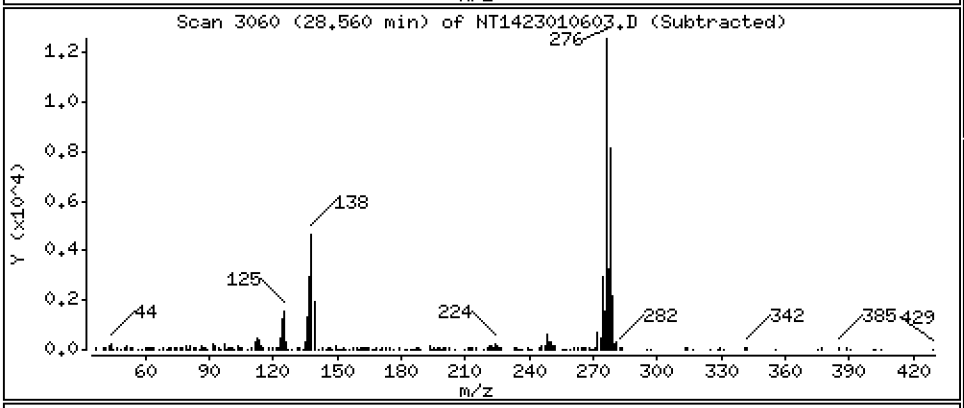
Column phase: ZB-5msi

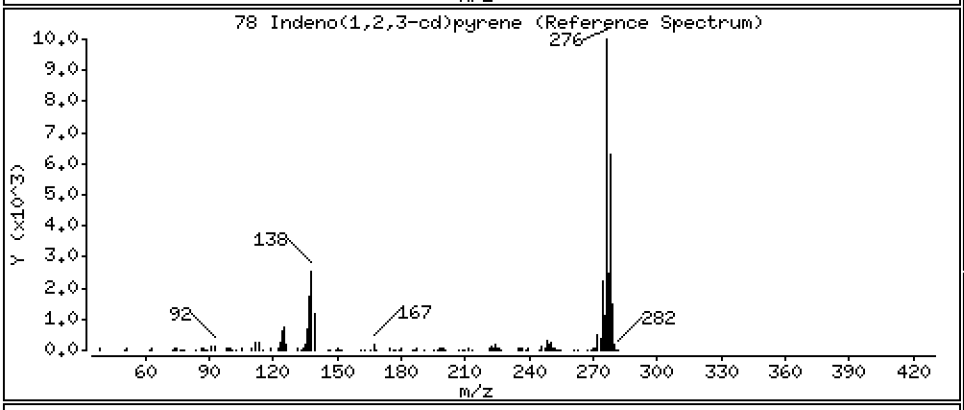
Column diameter: 0.25

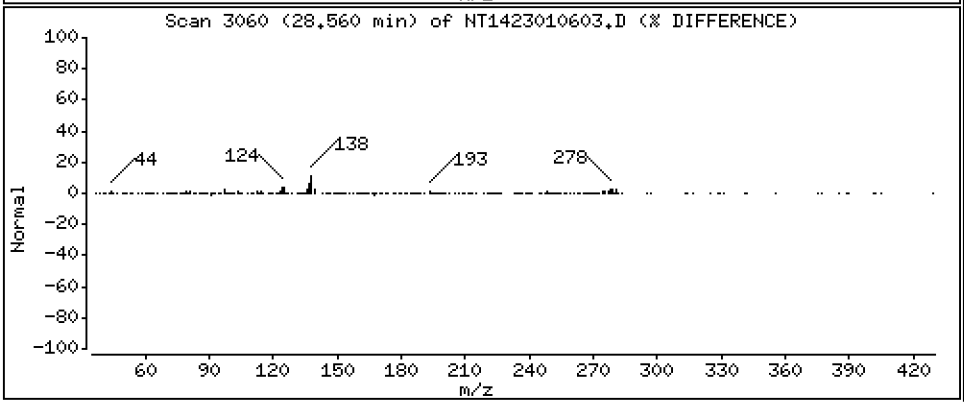
78 Indeno(1,2,3-cd)pyrene

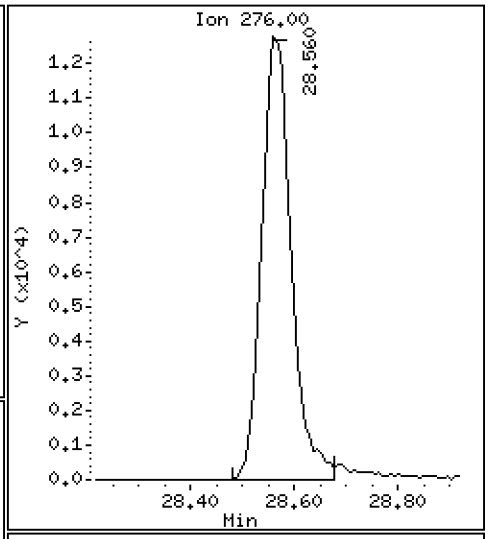
Concentration: 0.4679 ug/mL

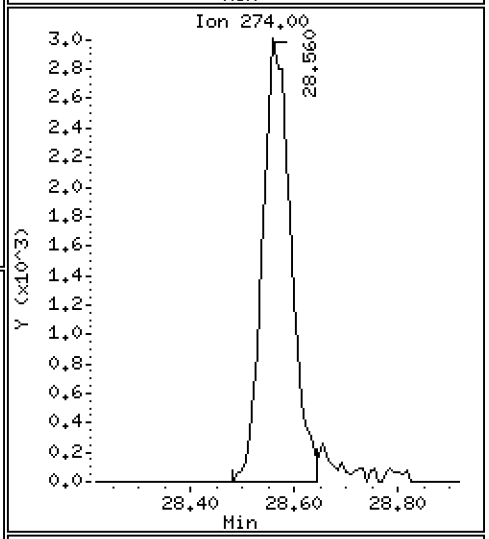


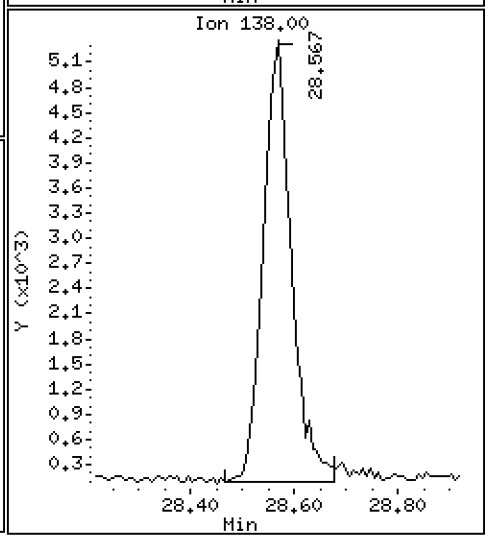












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

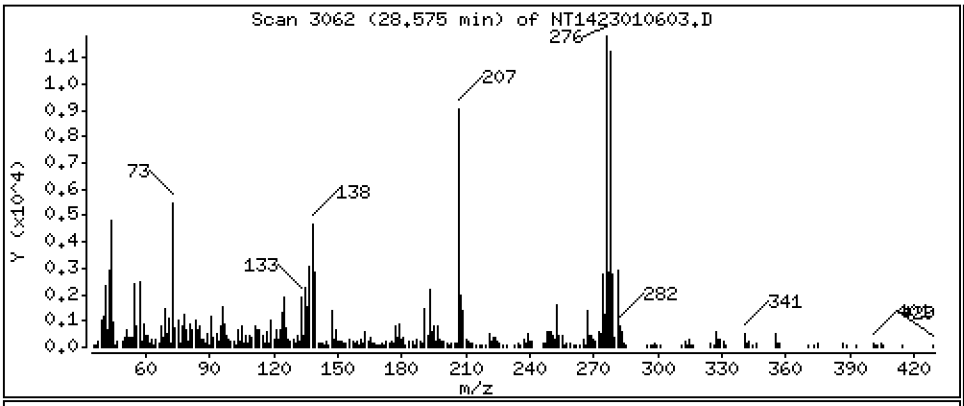
Operator: VTS

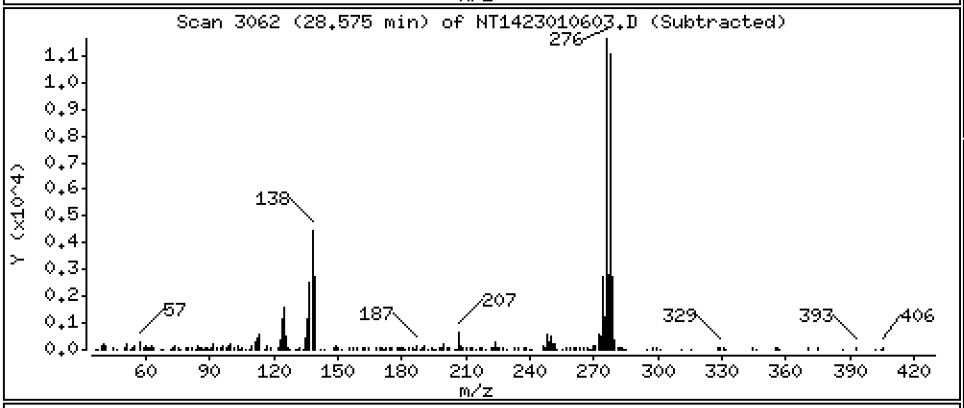
Column phase: ZB-5msi

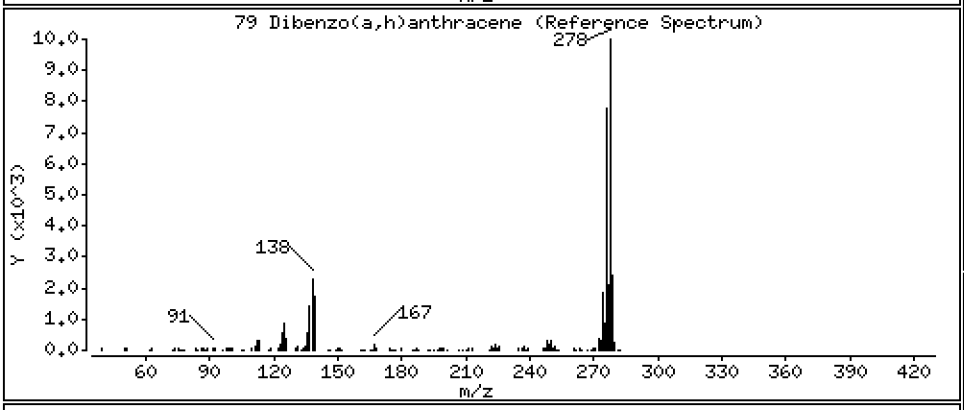
Column diameter: 0.25

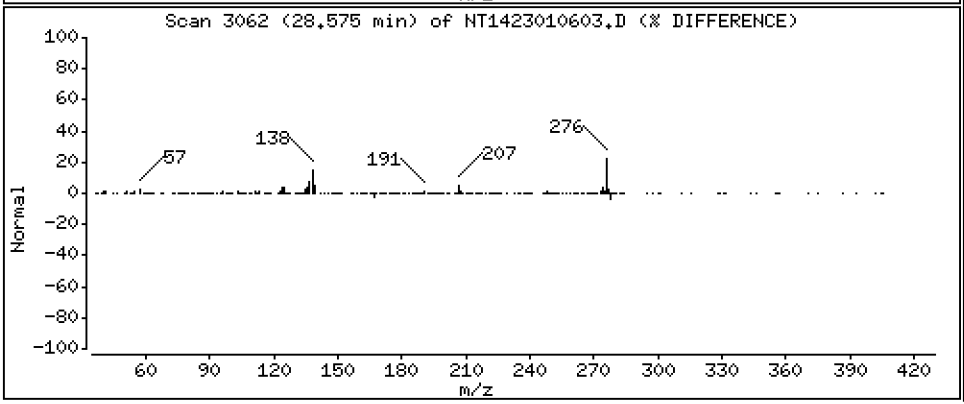
79 Dibenzo(a,h)anthracene

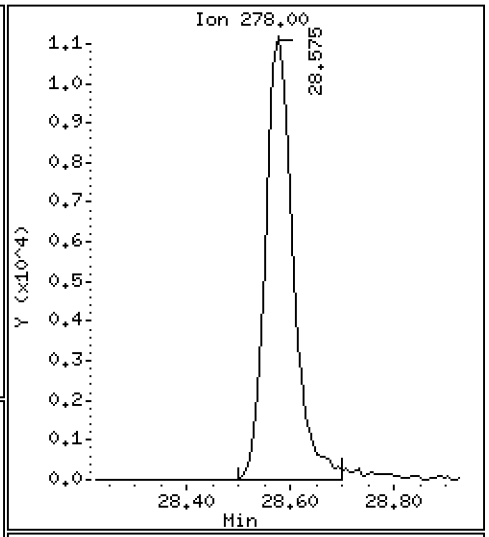
Concentration: 0.4516 ug/mL

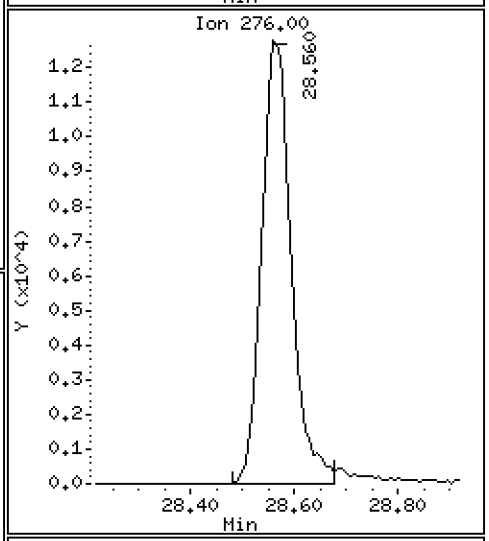


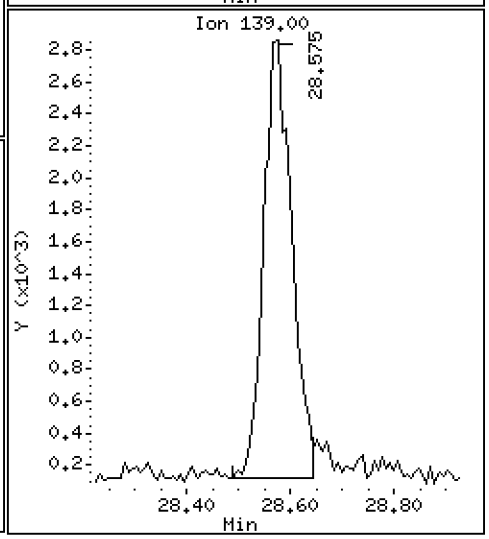












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

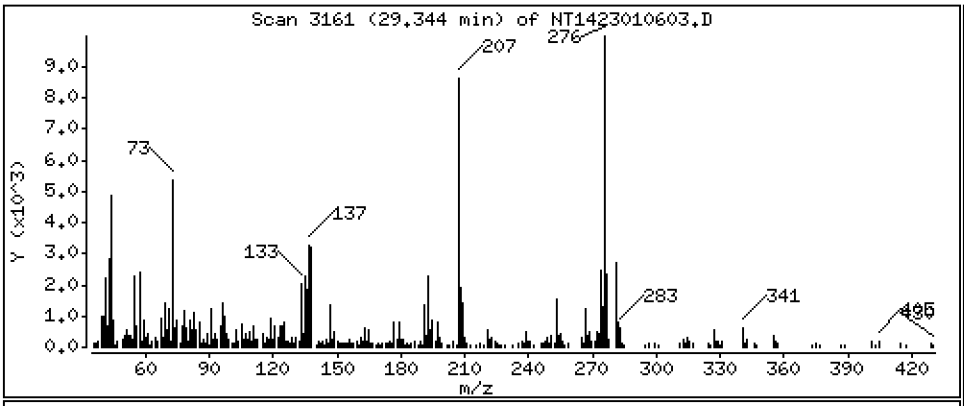
Operator: VTS

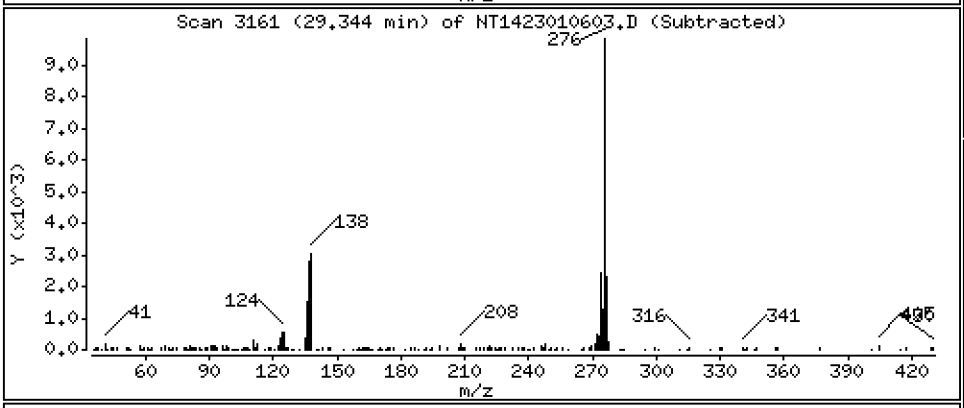
Column phase: ZB-5msi

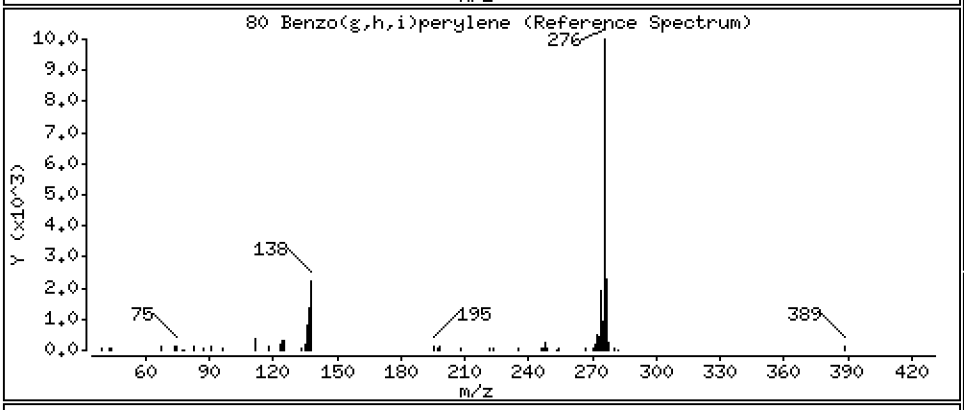
Column diameter: 0.25

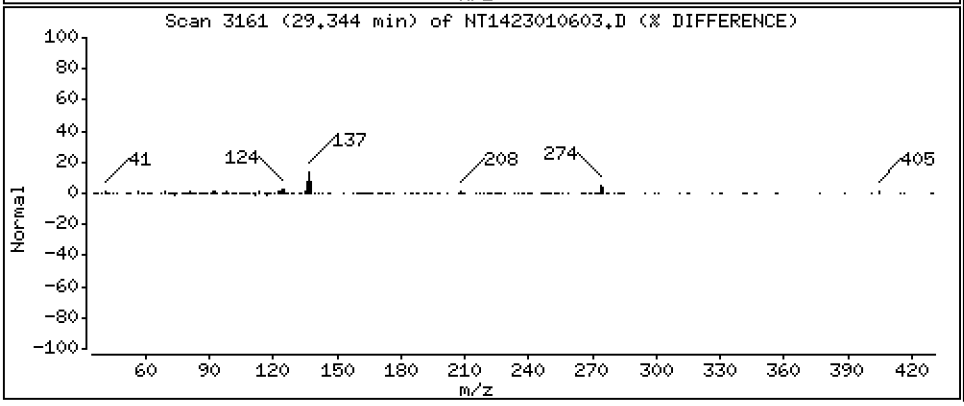
80 Benzo(g,h,i)perylene

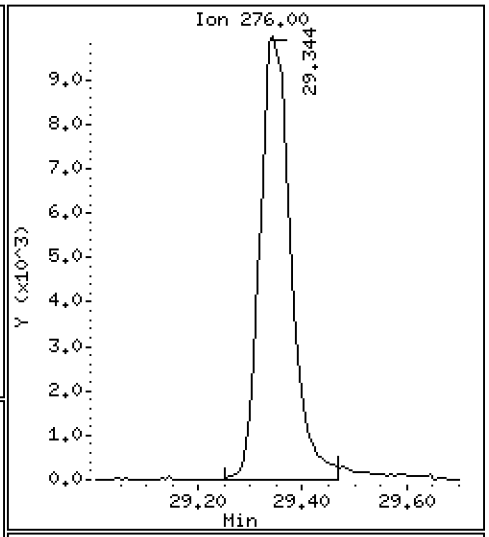
Concentration: 0.4629 ug/mL

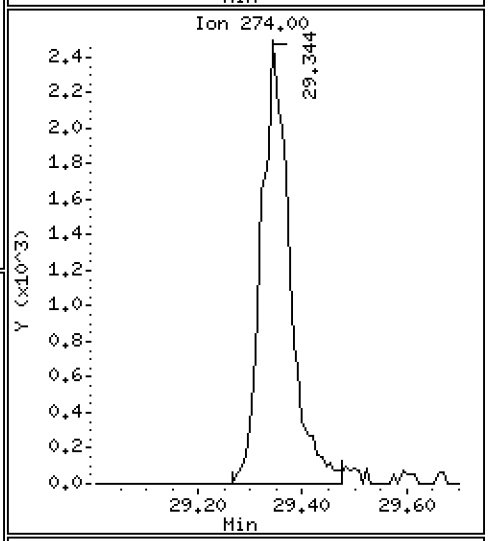


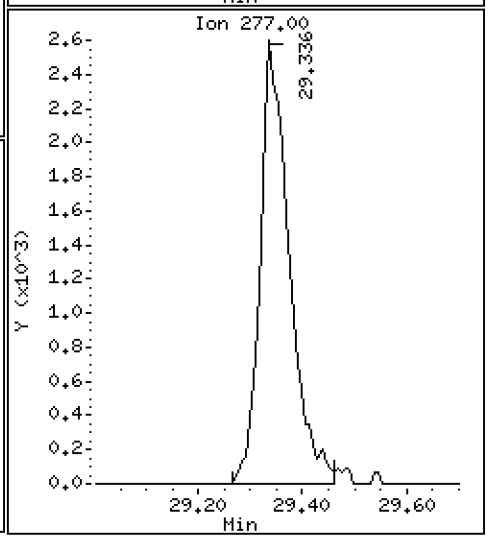












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

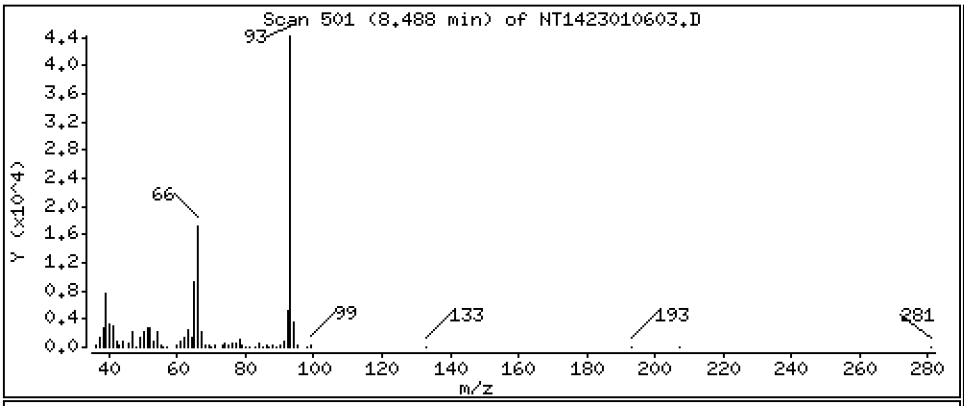
Operator: VTS

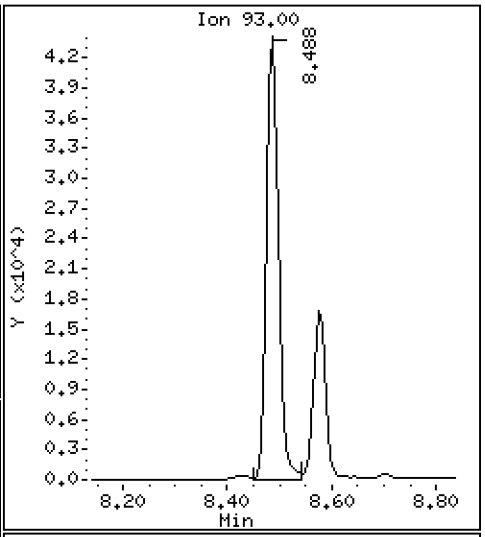
Column phase: ZB-5msi

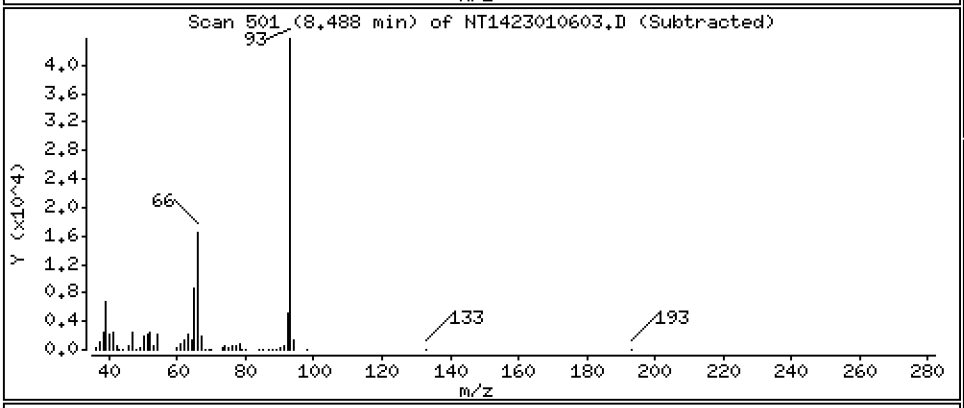
Column diameter: 0.25

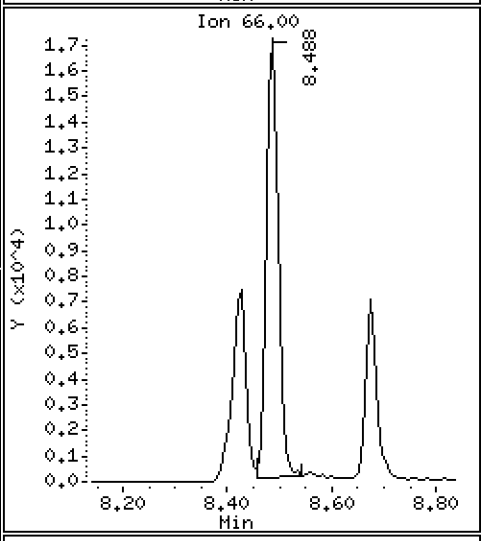
91 Aniline

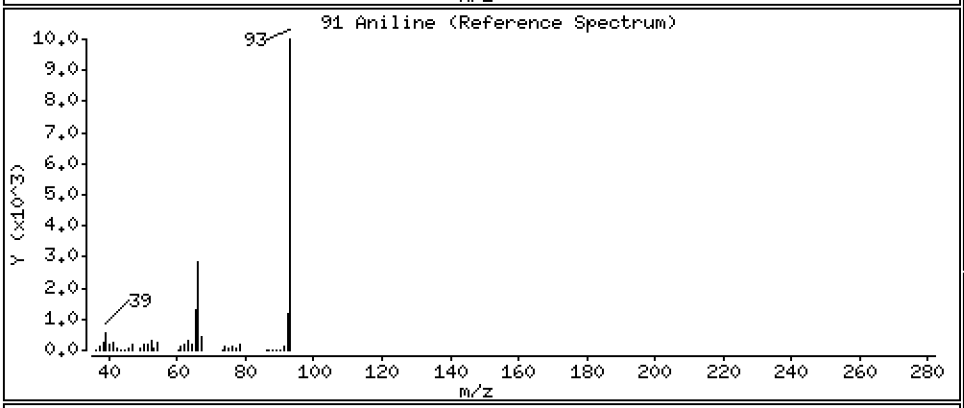
Concentration: 0.9312 ug/mL

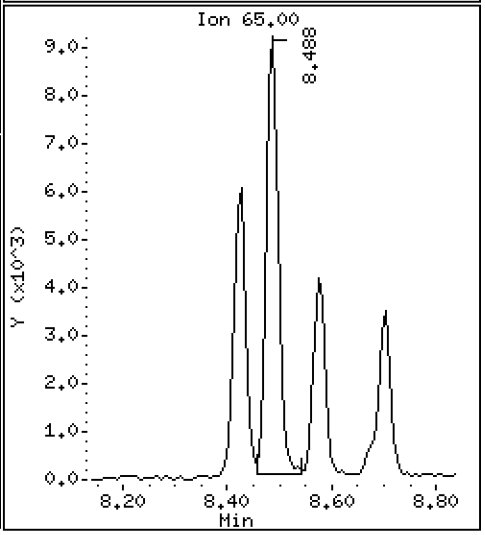


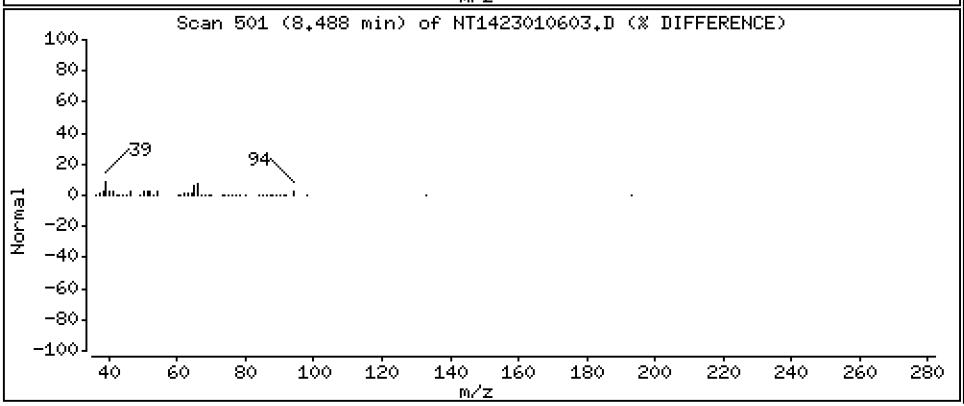












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

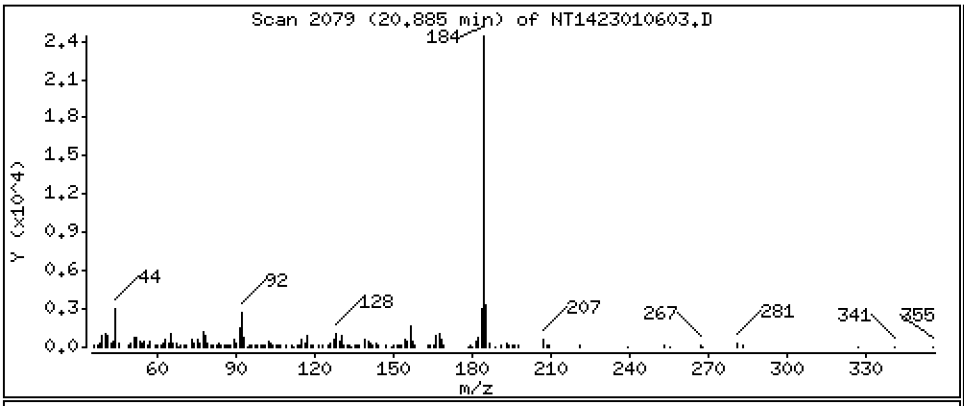
Operator: VTS

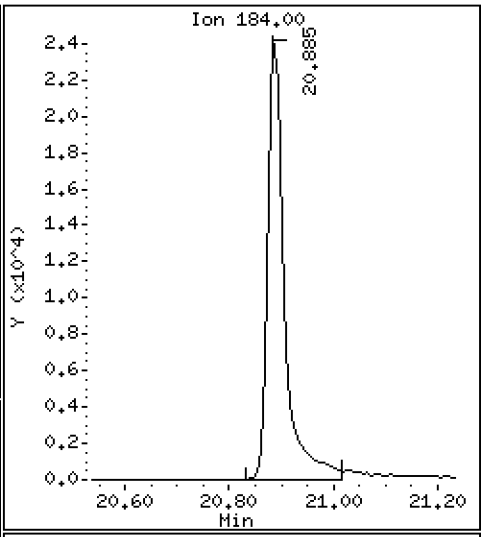
Column phase: ZB-5msi

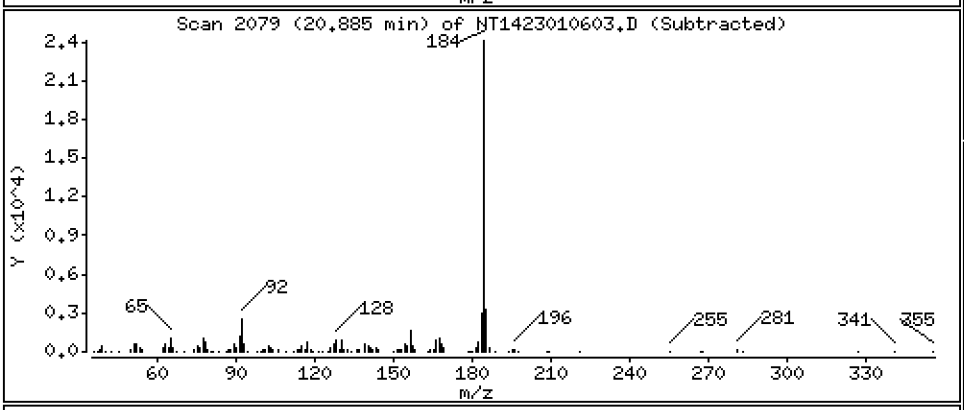
Column diameter: 0.25

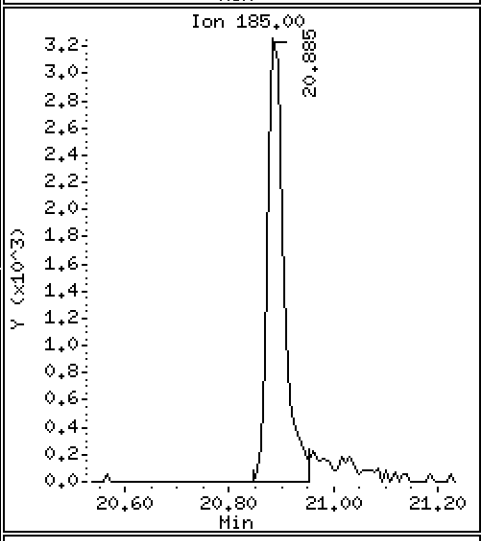
93 Benzidine

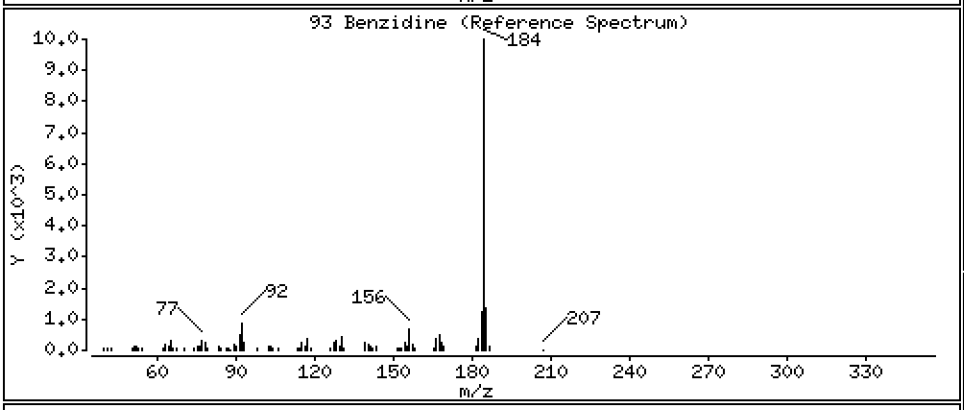
Concentration: 1.100 ug/mL

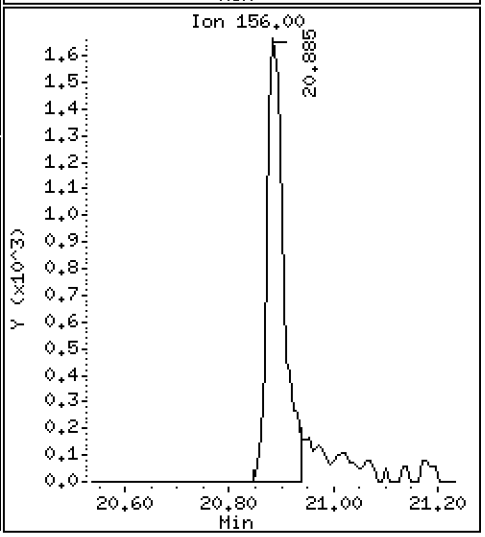


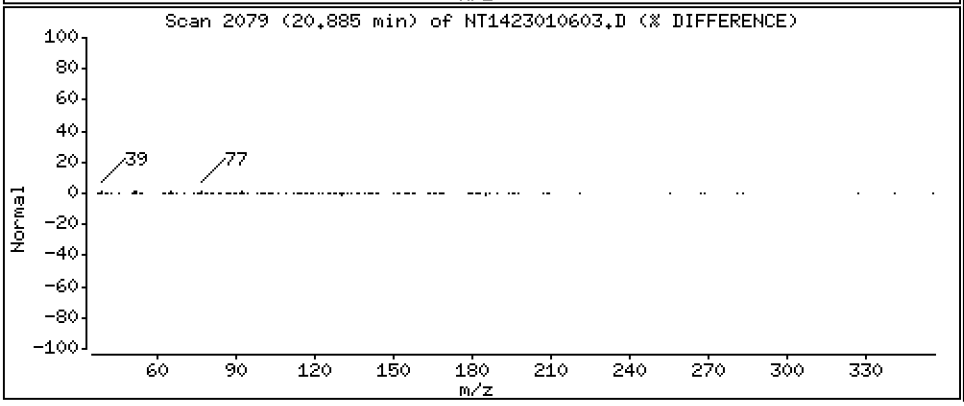












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

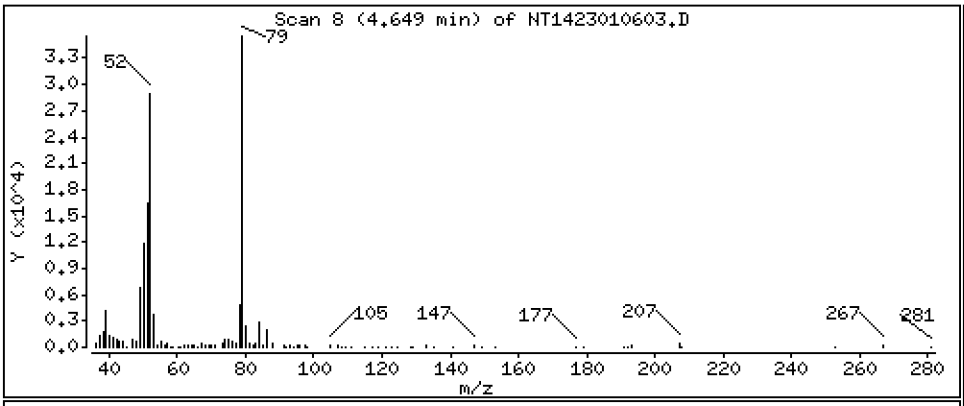
Operator: VTS

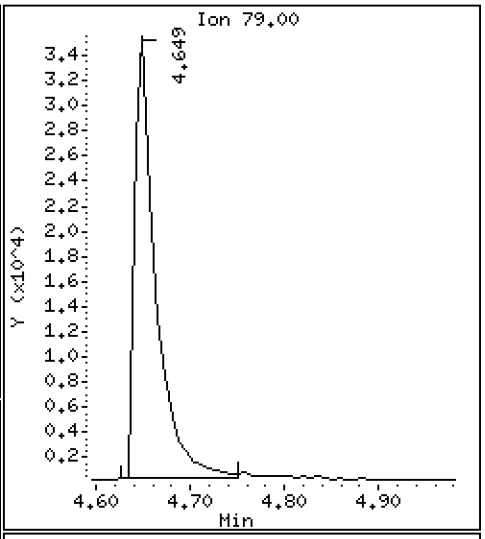
Column phase: ZB-5msi

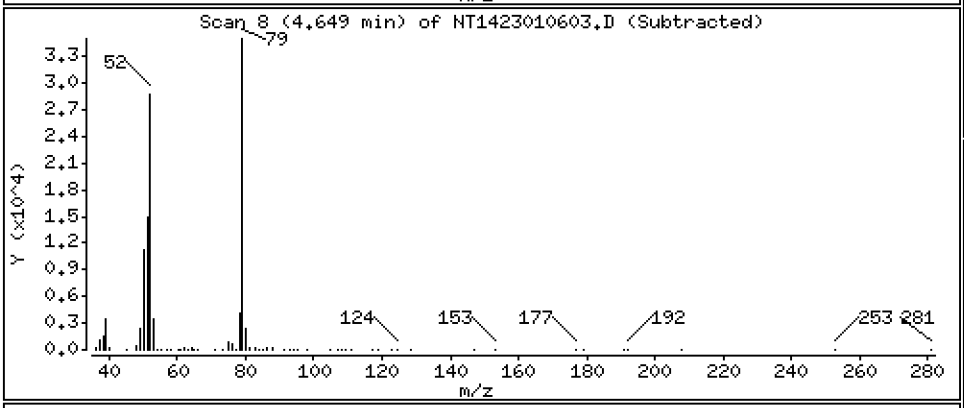
Column diameter: 0.25

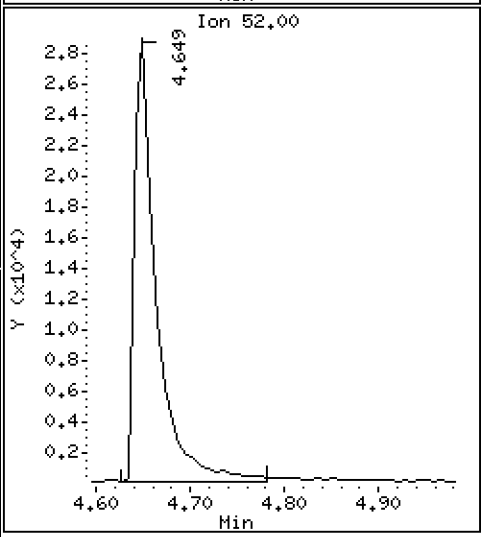
103 Pyridine

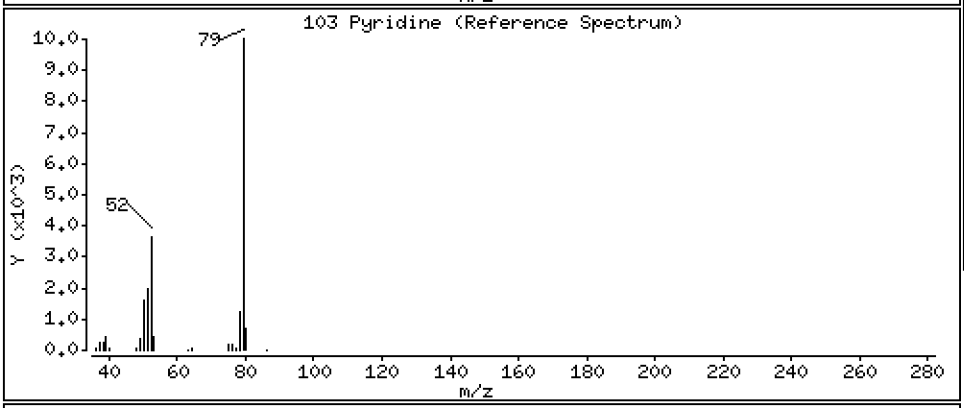
Concentration: 0.4878 ug/mL

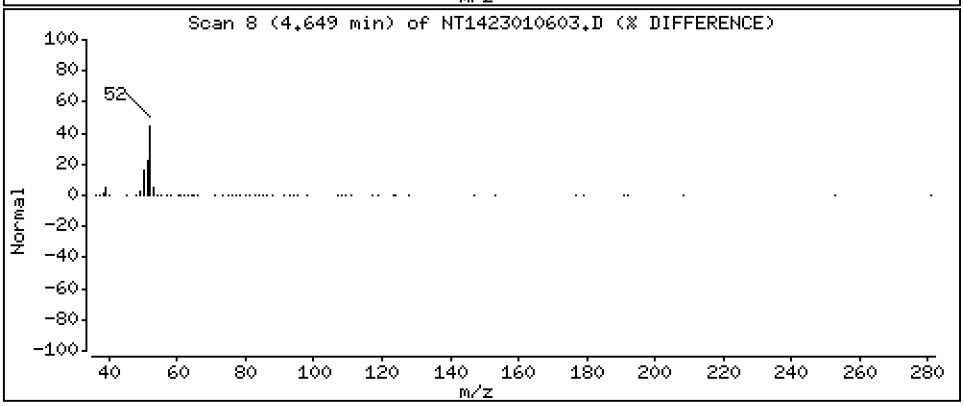












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

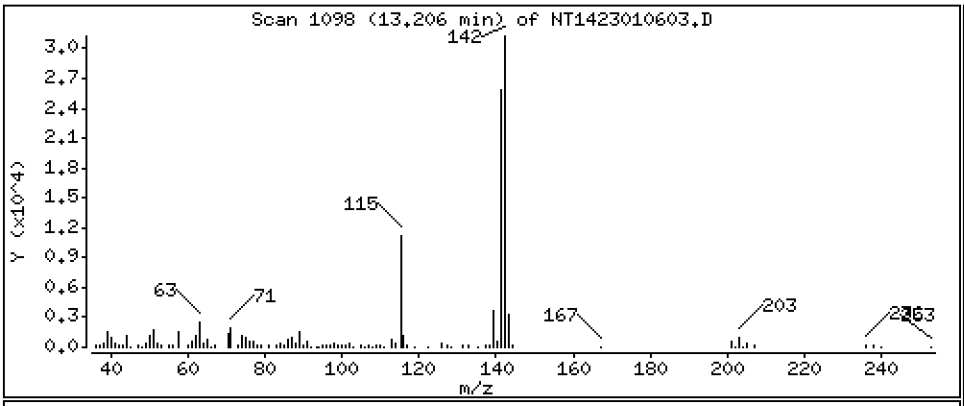
Operator: VTS

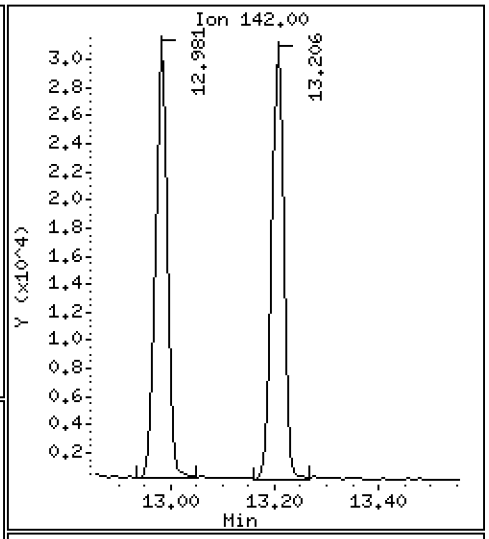
Column phase: ZB-5msi

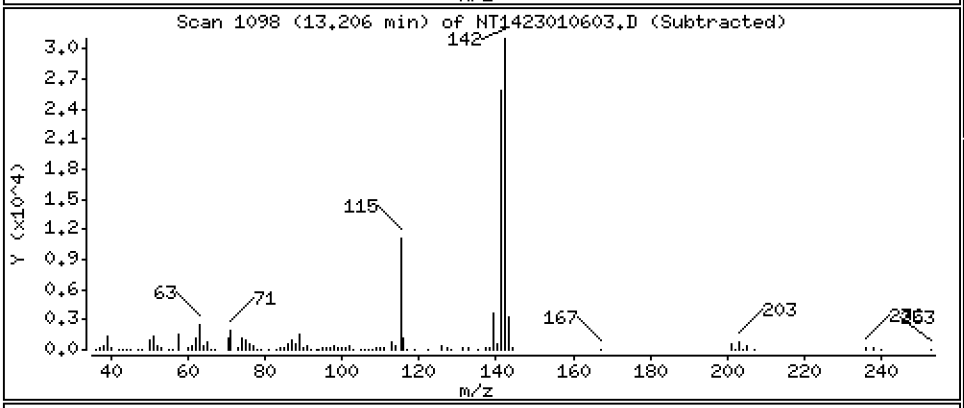
Column diameter: 0.25

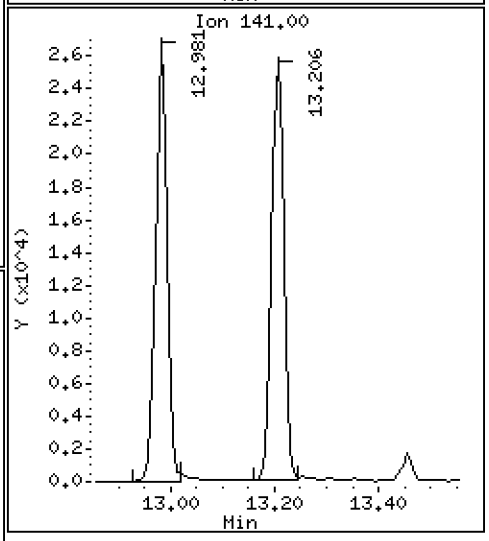
105 1-methylnaphthalene

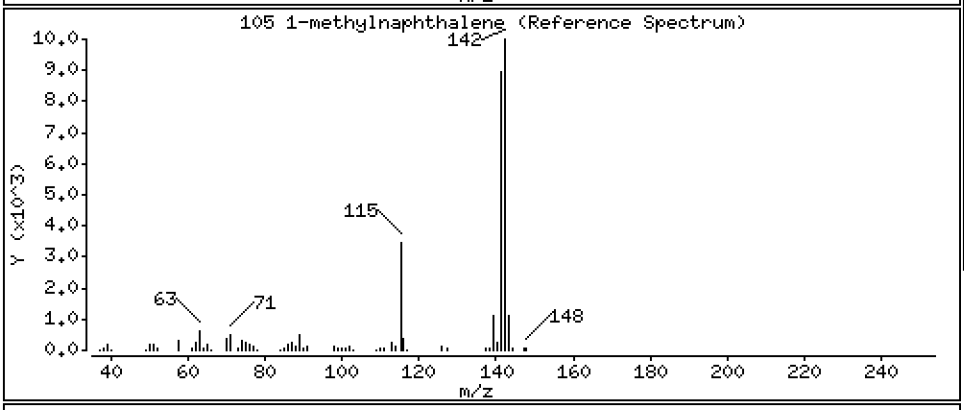
Concentration: 0.4366 ug/mL

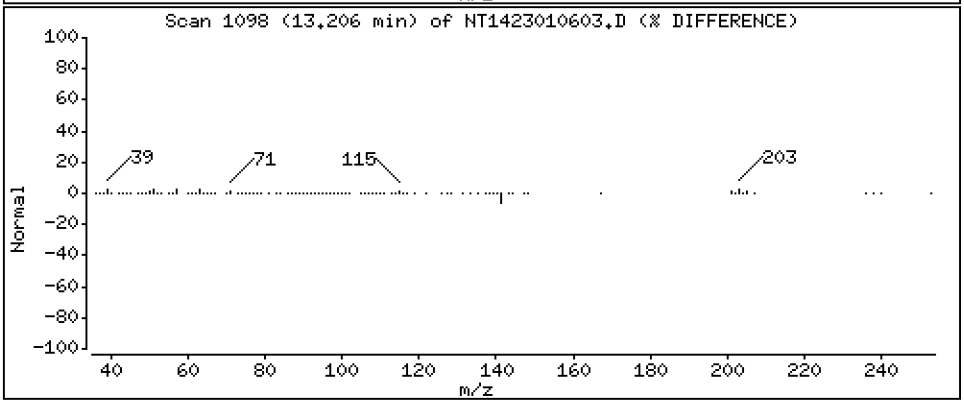












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D

Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

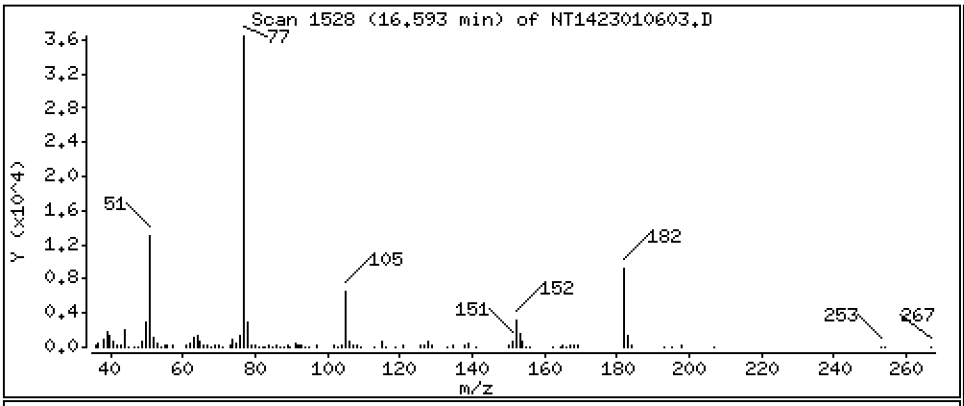
Operator: VTS

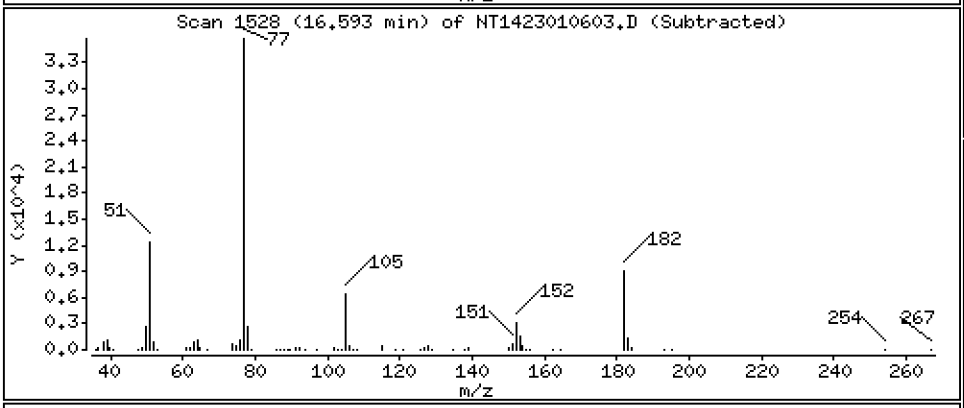
Column phase: ZB-5msi

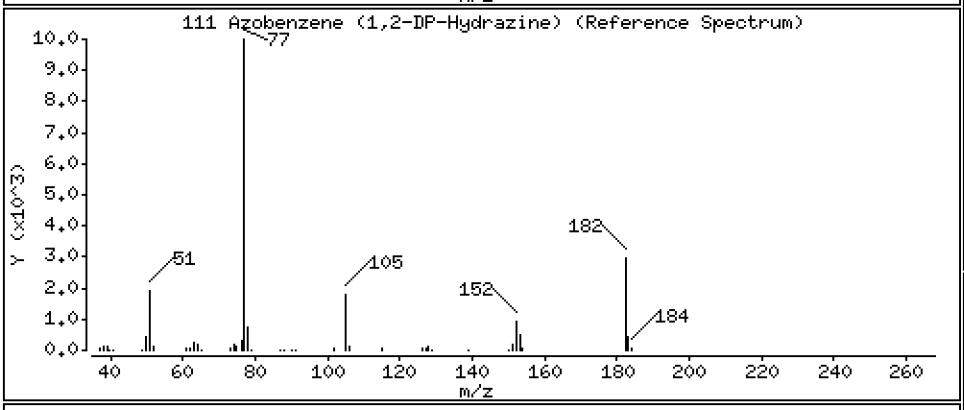
Column diameter: 0.25

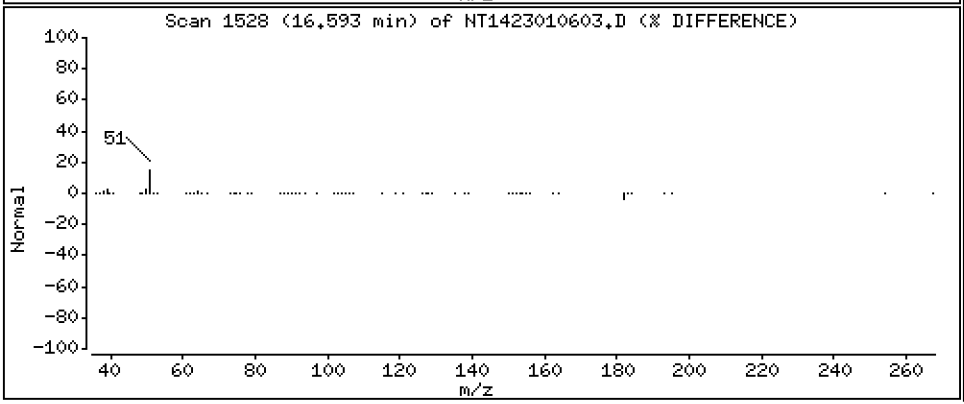
111 Azobenzene (1,2-DP-Hydrazine)

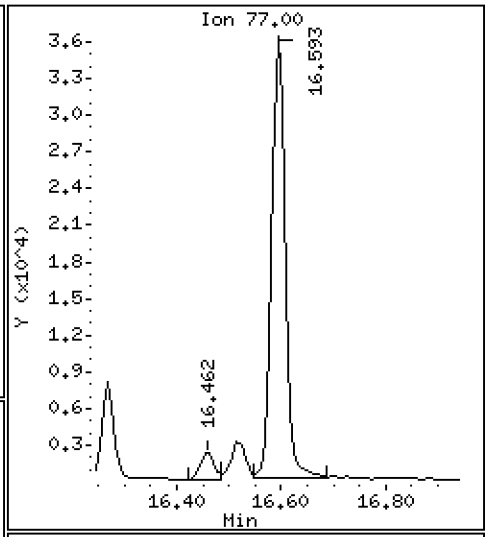
Concentration: 0.5482 ug/mL

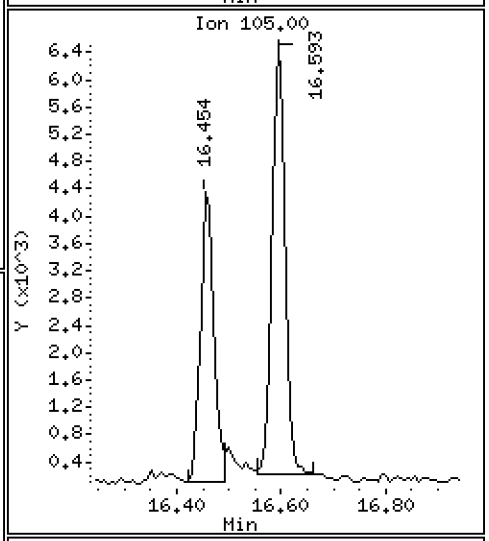


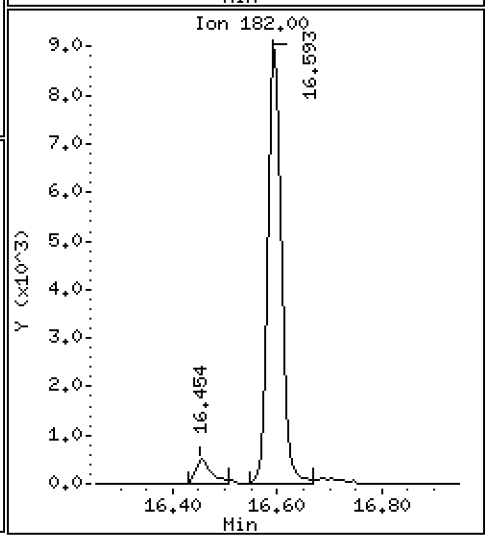












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

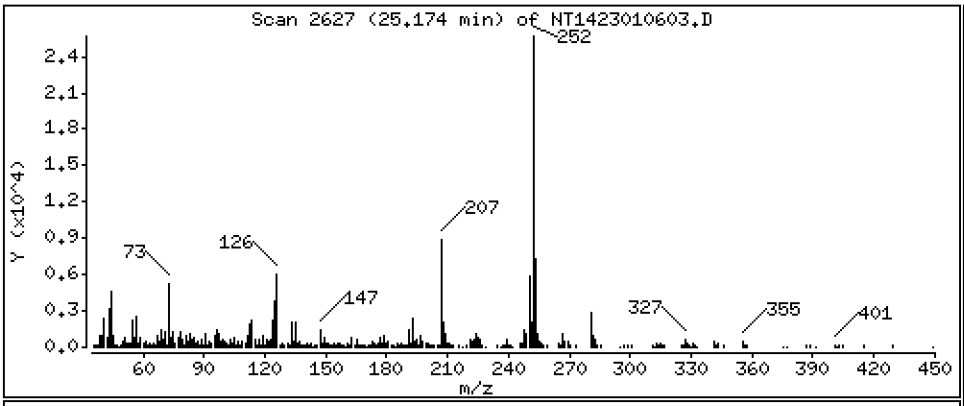
Operator: VTS

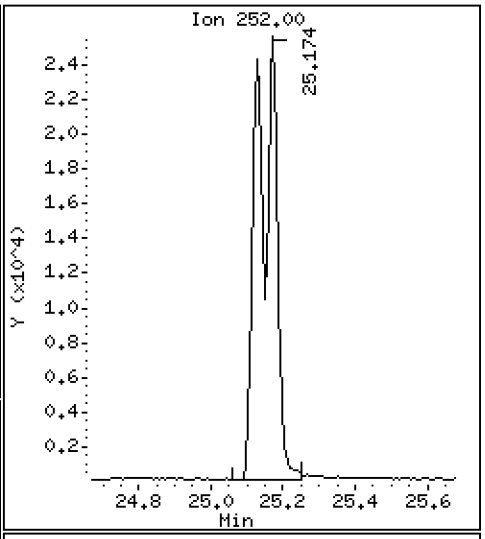
Column phase: ZB-5msi

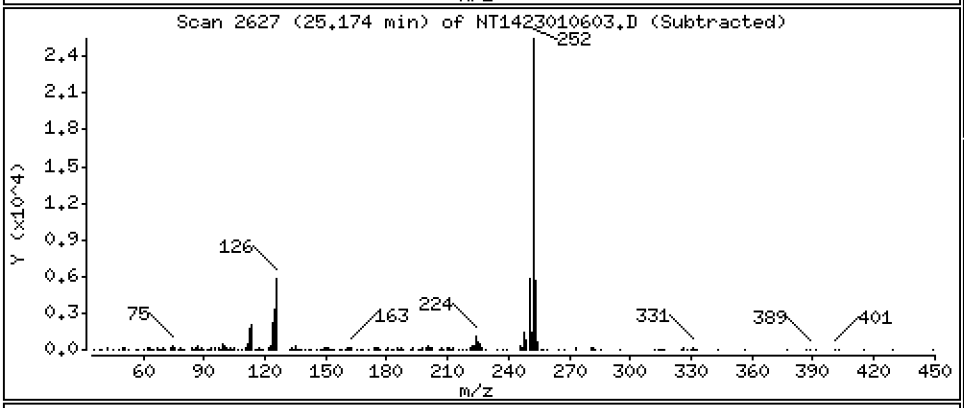
Column diameter: 0.25

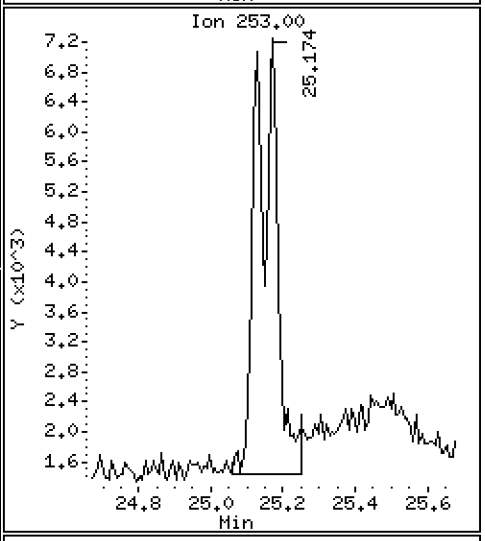
187 Total Benzofluoranthenes

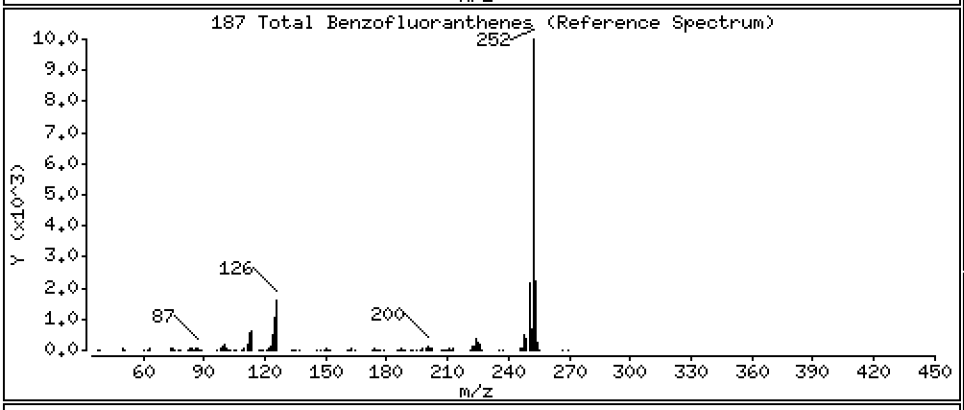
Concentration: 0.8865 ug/mL

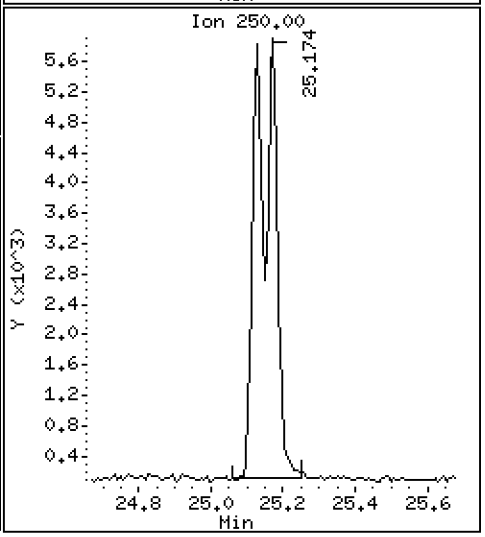


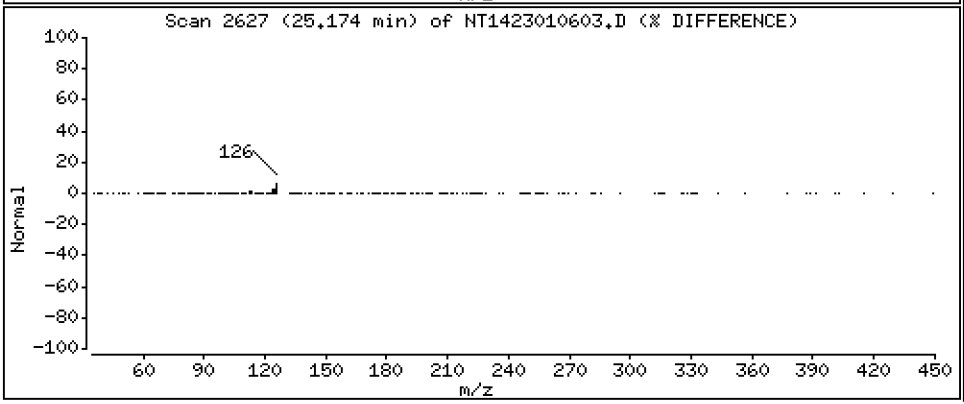












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Date : 06-JAN-2023 12:48

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV1

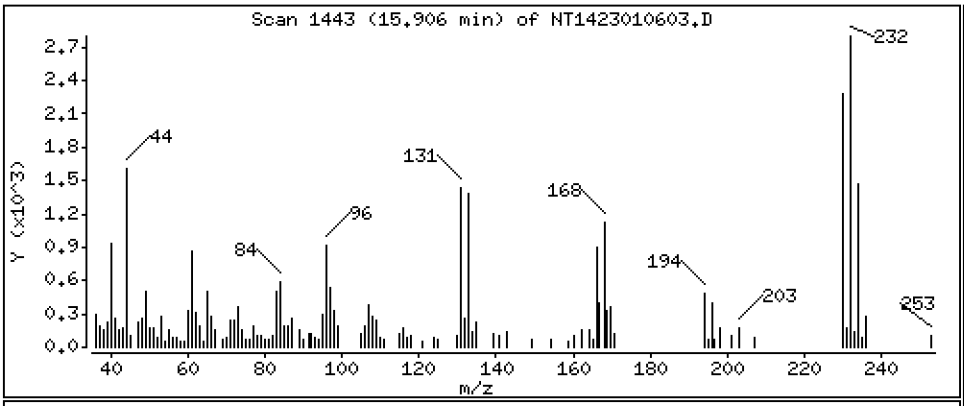
Operator: VTS

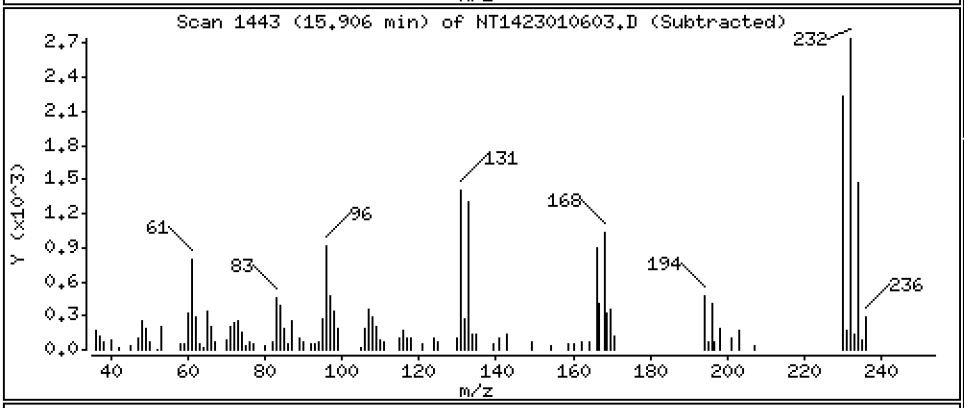
Column phase: ZB-5msi

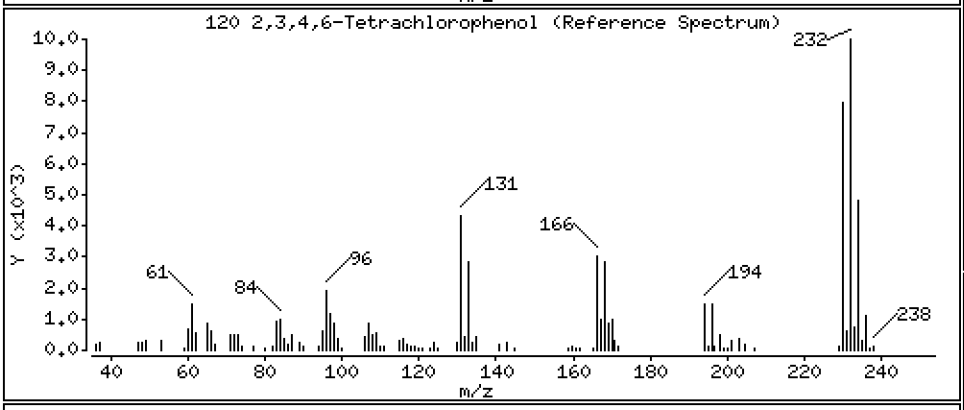
Column diameter: 0.25

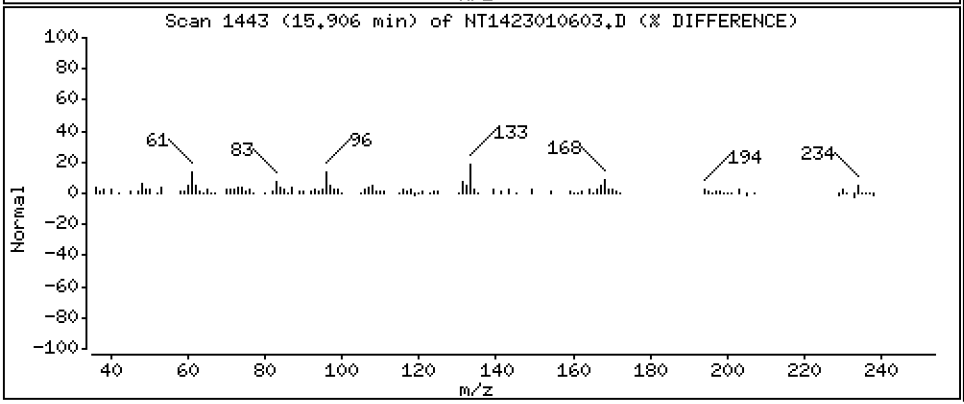
120 2,3,4,6-Tetrachlorophenol

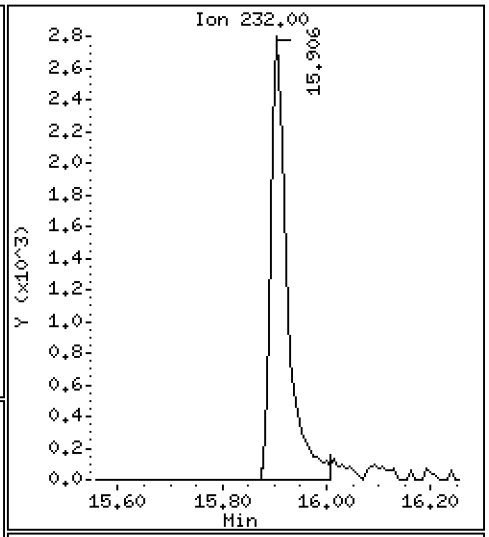
Concentration: 0.2797 ug/mL

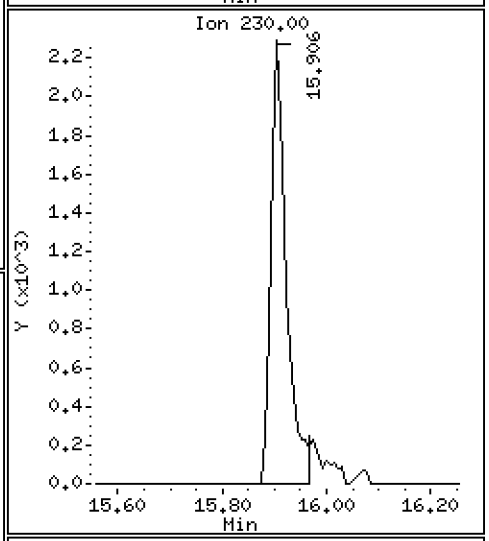


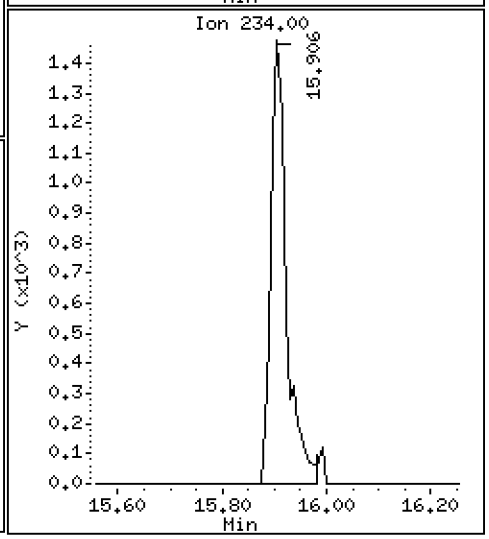












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

Data file : \\target\share\chem3\nt14.i\20230106.b\NT1423010603.D
Lab Smp Id: SLA0068-LCV1
Inj Date : 06-JAN-2023 12:48 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-LCV1
Misc Info :
Comment : 1ul Injection
Method : \\target\share\chem3\nt14.i\20230106.b\ABN.m
Meth Date : 09-Jan-2023 14:48 deenayd Quant Type: ISTD
Cal Date : 30-DEC-2022 11:07 Cal File: NT1422123007.D
Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: DEENAY-201905

	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	35843	0.68380	0.6838
$	2 Phenol-d5	99	8.403	8.403	(0.930)	41899	0.64681	0.6468
	3 Phenol	94	8.426	8.426	(0.932)	31338	0.42575	0.4258
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	37904	0.69672	0.6967
	4 Bis(2-Chloroethyl)ether	93	8.573	8.580	(0.949)	24557	0.48431	0.4843
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	27229	0.45573	0.4557
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	29472	0.46518	0.4652
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	163613	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	28013	0.46671	0.4667
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	17406	0.46811	0.4681
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	28188	0.47886	0.4789
	11 Benzyl alcohol	108	9.309	9.308	(1.030)	14131	0.43124	0.4312
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	8673	0.50820	0.5082(M)
	13 2-Methylphenol	108	9.541	9.541	(1.056)	22971	0.42948	0.4295
	17 Hexachloroethane	117	10.023	10.022	(1.109)	11557	0.52353	0.5235
	16 N-Nitroso-di-n-propylamine	70	9.868	9.867	(1.092)	17117	0.52535	0.5254
	15 4-Methylphenol	108	9.813	9.813	(1.086)	22677	0.40191	0.4019
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	26063	0.50011	0.5001
	19 Nitrobenzene	77	10.170	10.170	(0.882)	25237	0.48761	0.4876
	20 Isophorone	82	10.620	10.620	(0.921)	31170	0.47253	0.4725
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	11150	0.35228	0.3523
	22 2,4-Dimethylphenol	107	10.861	10.868	(0.942)	42986	0.79578	0.7958
	23 Bis(2-Chloroethoxy)methane	93	11.055	11.054	(0.958)	24185	0.47130	0.4713
	24 Benzoic acid	105	10.969	11.062	(0.951)	10520	0.31984	0.3198
	25 2,4-Dichlorophenol	162	11.264	11.263	(0.977)	30698	0.67418	0.6742
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	26326	0.53471	0.5347
*	27 Naphthalene-d8	136	11.535	11.542	(1.000)	617145	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	70005	0.46093	0.4609
	29 4-Chloroaniline	127	11.704	11.704	(1.015)	48798	0.77910	0.7791
	30 Hexachlorobutadiene	225	11.952	11.951	(1.036)	11436	0.46815	0.4682
	31 4-Chloro-3-methylphenol	107	12.679	12.679	(1.099)	30717	0.71486	0.7149
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	47639	0.42762	0.4276
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	12899	0.56291	0.5629

			QUANT SIG					CONCENTRATIONS ON-COLUMN	CONCENTRATIONS FINAL
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	(ug/mL)	(ug/mL)
	34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	17311	0.68418	0.6842
	35	2,4,5-Trichlorophenol	196	13.685	13.685	(0.902)	15375	0.52652	0.5265
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	46583	0.45705	0.4570
	37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	39320	0.45349	0.4535
	38	2-Nitroaniline	65	14.235	14.234	(0.938)	21716	0.95264	0.9526
	39	Dimethylphthalate	163	14.668	14.668	(0.967)	41339	0.48356	0.4836
	40	Acenaphthylene	152	14.854	14.853	(0.979)	61272	0.46345	0.4635
	41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	16335	0.84668	0.8467
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	303137	4.00000	
	43	3-Nitroaniline	138	15.094	15.093	(0.995)	19274	0.82195	0.8220
	44	Acenaphthene	153	15.233	15.232	(1.004)	38521	0.46977	0.4698
	45	2,4-Dinitrophenol	184	15.310	15.302	(1.009)	4220	0.25743	0.2574
	46	Dibenzofuran	168	15.565	15.565	(1.026)	56248	0.45742	0.4574
	47	4-Nitrophenol	109	15.442	15.426	(1.018)	6510	0.57970	0.5797
	48	2,4-Dinitrotoluene	165	15.612	15.619	(1.029)	20854	0.78782	0.7878
	50	Diethylphthalate	149	16.130	16.137	(1.063)	62182	0.53514	0.5351
	49	Fluorene	166	16.276	16.276	(1.073)	60475	0.46230	0.4623
	51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	27044	0.42227	0.4223
	52	4-Nitroaniline	138	16.361	16.361	(1.078)	25291	0.89513	0.8951
	53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	16406	0.76869	0.7687
	54	N-Nitrosodiphenylamine	169	16.523	16.523	(0.907)	39335	0.45129	0.4513
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	7383	0.51904	0.5190
	56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	14181	0.42967	0.4297
	57	Hexachlorobenzene	284	17.596	17.595	(0.966)	16055	0.44328	0.4433
	58	Pentachlorophenol	266	17.960	17.952	(0.986)	1753	0.11176	0.1118
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	507941	4.00000	
	60	Phenanthrene	178	18.261	18.261	(1.003)	60670	0.45811	0.4581
	61	Anthracene	178	18.354	18.354	(1.008)	58084	0.45942	0.4594
	62	Carbazole	167	18.687	18.687	(1.026)	56466	0.46199	0.4620
	63	Di-n-butylphthalate	149	19.484	19.484	(1.070)	66302	0.47946	0.4795
	64	Fluoranthene	202	20.652	20.652	(0.888)	60359	0.48654	0.4865
	65	Pyrene	202	21.078	21.077	(0.906)	63331	0.48553	0.4855
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	43603	0.47145	0.4714
	67	Butylbenzylphthalate	149	22.285	22.285	(0.958)	27814	0.56465	0.5646
	68	Benzo(a)anthracene	228	23.246	23.245	(0.999)	54488	0.46684	0.4668
*	69	Chrysene-d12	240	23.269	23.268	(1.000)	385291	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	55295	1.54759	1.548
	71	Chrysene	228	23.315	23.315	(1.002)	51625	0.46826	0.4683
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	36932	0.48334	0.4833
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	688020	4.00000	
	73	Di-n-octylphthalate	149	24.306	24.306	(1.000)	76829	0.46520	0.4652
	74	Benzo(b)fluoranthene	252	25.127	25.126	(0.970)	48970	0.43157	0.4316
	75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	52002	0.45028	0.4503
	76	Benzo(a)pyrene	252	25.785	25.784	(0.996)	45597	0.48340	0.4834
*	77	Perylene-d12	264	25.901	25.901	(1.000)	361053	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.559	28.567	(1.103)	50172	0.46790	0.4679
	79	Dibenzo(a,h)anthracene	278	28.575	28.574	(1.103)	41146	0.45156	0.4516
	80	Benzo(g,h,i)perylene	276	29.344	29.351	(1.133)	41583	0.46292	0.4629
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.488	8.487	(0.939)	66741	0.93124	0.9312
	93	Benzidine	184	20.884	20.884	(0.898)	52076	1.10015	1.100
	103	Pyridine	79	4.649	4.633	(0.514)	55953	0.48778	0.4878
	105	1-methylnaphthalene	142	13.205	13.205	(1.145)	46739	0.43664	0.4366
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.593	16.592	(1.094)	61713	0.54821	0.5482

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.173	25.173	(0.972)	97248	0.88649	0.8865
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	5976	0.27970	0.2797

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010603.D
Lab Smp Id: SLA0068-LCV1
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 12:05
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	134115	67058	268230	163613	21.99
27 Naphthalene-d8	499117	249559	998234	617145	23.65
42 Acenaphthene-d10	260320	130160	520640	303137	16.45
59 Phenanthrene-d10	432406	216203	864812	507941	17.47
69 Chrysene-d12	317887	158944	635774	385291	21.20
134 Di-n-octylphthala	664061	332031	1328122	688020	3.61
77 Perylene-d12	313716	156858	627432	361053	15.09

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.54	11.04	12.04	11.54	-0.06
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.27	22.77	23.77	23.27	0.00
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010603.D

Lab ID: SLA0068-LCV1
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 12:48

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
0.951	0.958	-0.0074	Benzoic acid

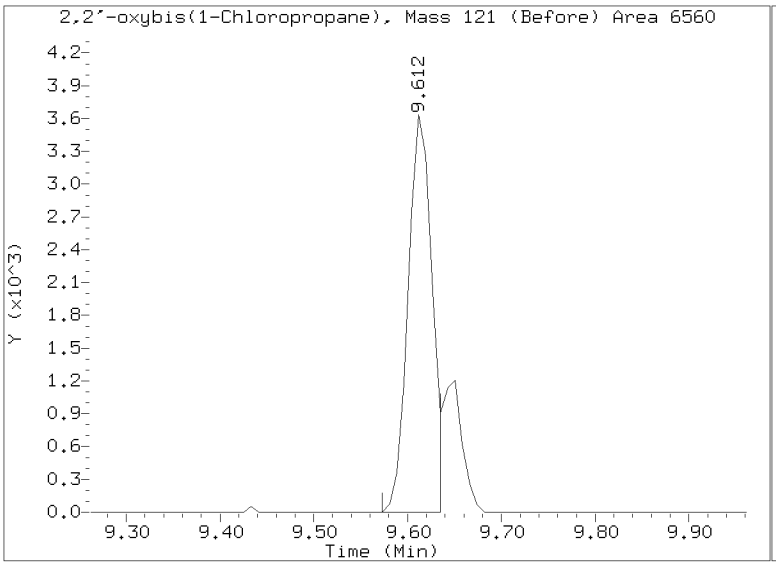
RRT check based on Ccal File: NT1423010602.D

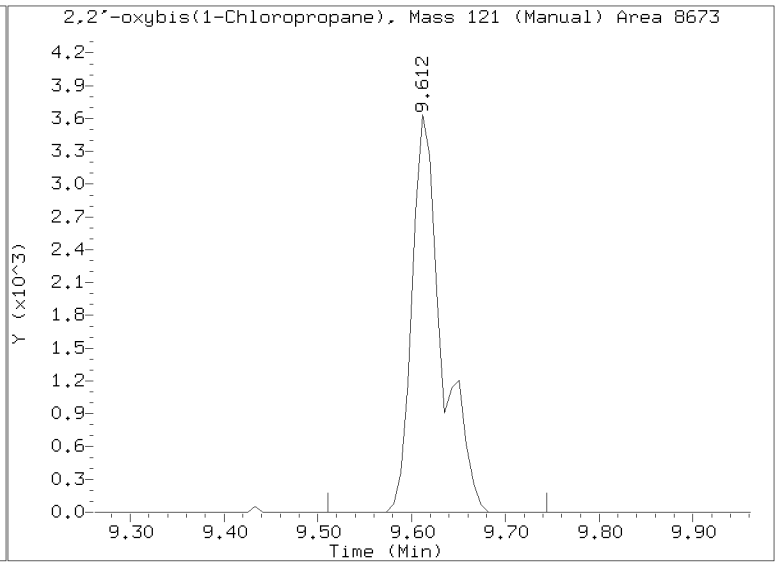
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010603.D
Injection Date: 06-JAN-2023 12:48
Lab ID:SLA0068-LCV1 Client ID:
Report Date: 01/09/2023 15:25





APPROVED

By Deenay Dunmore at 3:35 pm, Jan 09, 2023

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010620.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV2	Injection Time:	23:03
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Phenol	A	0.50000	0.4	1.7995200	1.3047500		-27.5	+/-50	
bis(2-chloroethyl) ether	A	0.50000	0.5	1.2396270	1.1786620		-4.9	+/-50	
2-Chlorophenol	A	0.50000	0.4	1.4607190	1.2271020		-16.0	+/-50	
1,3-Dichlorobenzene	A	0.50000	0.5	1.5489360	1.4589990		-5.8	+/-50	
1,4-Dichlorobenzene	A	0.50000	0.5	1.4674070	1.3570480		-7.5	+/-50	
1,2-Dichlorobenzene	A	0.50000	0.5	1.4391100	1.3280060		-7.7	+/-50	
Benzyl Alcohol	A	0.50000	0.6	0.8011083	1.0040230		25.3	+/-50	
2,2'-Oxybis(1-chloropropane)	A	0.50000	0.5	0.4172325	0.3837760		-8.0	+/-50	
2-Methylphenol	A	0.50000	0.4	1.3076140	1.0289320		-21.3	+/-50	
Hexachloroethane	A	0.50000	0.5	0.5396966	0.5019288		-7.0	+/-50	
N-Nitroso-di-n-Propylamine	A	0.50000	0.5	0.7965591	0.8212829		3.1	+/-50	
4-Methylphenol	A	0.50000	0.3	1.3794240	0.9103935		-34.0	+/-50	
Nitrobenzene	A	0.50000	0.5	0.3354574	0.3303139		-1.5	+/-50	
Isophorone	A	0.50000	0.5	0.4275424	0.4142082		-3.1	+/-50	
2-Nitrophenol	A	0.50000	0.4	0.2064997	0.1766306		-14.0	+/-50	
2,4-Dimethylphenol	A	1.0000	0.7	0.3501131	0.2504046		-28.5	+/-50	
Bis(2-Chloroethoxy)methane	A	0.50000	0.5	0.3325989	0.3077276		-7.5	+/-50	
2,4-Dichlorophenol	A	1.0000	0.6	0.2951237	0.1829990		-38.0	+/-50	
1,2,4-Trichlorobenzene	A	0.50000	0.5	0.3191088	0.3498627		9.6	+/-50	
Naphthalene	A	0.50000	0.5	0.9843833	0.9245211		-6.1	+/-50	
Benzoic acid	A	2.0000	0.1	0.1508906	0.0110714		-94.8	+/-50	*
4-Chloroaniline	A	1.0000	0.8	0.4059568	0.3287425		-19.0	+/-50	
Hexachlorobutadiene	A	0.50000	0.6	0.1583286	0.1819238		14.9	+/-50	
4-Chloro-3-Methylphenol	A	1.0000	0.6	0.2785027	0.1625480		-41.6	+/-50	
2-Methylnaphthalene	A	0.50000	0.4	0.7220739	0.6220266		-13.9	+/-50	
Hexachlorocyclopentadiene	A	1.0000	0.1	0.3023695	0.0315508		-89.6	+/-50	*
2,4,6-Trichlorophenol	A	1.0000	0.6	0.3338641	0.2121893		-36.4	+/-50	
2,4,5-Trichlorophenol	A	1.0000	0.5	0.3853234	0.2017626		-47.6	+/-50	
2-Chloronaphthalene	A	0.50000	0.5	1.1441150	1.0728470		-6.2	+/-50	
2-Nitroaniline	A	1.0000	0.9	0.3007956	0.2635101		-12.4	+/-50	
Acenaphthylene	A	0.50000	0.5	1.7445240	1.5990850		-8.3	+/-50	
Dimethylphthalate	A	0.50000	0.5	1.1280520	1.0939410		-3.0	+/-50	
2,6-Dinitrotoluene	A	1.0000	0.8	0.2545771	0.2111511		-17.1	+/-50	
Acenaphthene	A	0.50000	0.5	1.0820160	1.0084220		-6.8	+/-50	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION CONTINUING CALIBRATION CHECK

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010620.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV2	Injection Time:	23:03
Sequence Name:	ABN 0.5		

		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
3-Nitroaniline	A	1.0000	0.8	0.3094189	0.2531587		-18.2	+/-50	
2,4-Dinitrophenol	A	2.0000	0.05	0.1831718	0.0053638		-97.5	+/-50	*
Dibenzofuran	A	0.50000	0.5	1.6225950	1.4686690		-9.5	+/-50	
4-Nitrophenol	A	1.0000	0.3	0.1384031	0.0384116		-74.1	+/-50	*
2,4-Dinitrotoluene	A	1.0000	0.8	0.3492859	0.2625773		-24.8	+/-50	
Fluorene	A	0.50000	0.5	1.7261350	1.6129870		-6.6	+/-50	
4-Chlorophenylphenyl ether	A	0.50000	0.4	0.8450792	0.7107279		-15.9	+/-50	
Diethyl phthalate	A	0.50000	0.5	1.5332690	1.6255660		6.0	+/-50	
4-Nitroaniline	A	1.0000	0.8	0.3413732	0.2811587		-24.6	+/-50	
4,6-Dinitro-2-methylphenol	A	2.0000	0.5	0.1530278	0.0423811		-74.8	+/-50	*
N-Nitrosodiphenylamine	A	0.50000	0.4	0.6863845	0.6101303		-11.1	+/-50	
4-Bromophenyl phenyl ether	A	0.50000	0.4	0.2599074	0.2246805		-13.6	+/-50	
Hexachlorobenzene	A	0.50000	0.5	0.2852204	0.2591463		-9.1	+/-50	
Pentachlorophenol	A	1.0000	0.08	0.1128364	0.0095500		-92.3	+/-50	*
Phenanthrene	A	0.50000	0.5	1.0429190	0.9423893		-9.6	+/-50	
Anthracene	A	0.50000	0.5	0.9956202	0.9174824		-7.8	+/-50	
Carbazole	A	0.50000	0.4	0.9624945	0.8648098		-10.2	+/-50	
Di-n-Butylphthalate	A	0.50000	0.5	1.0394700	1.0455010		-4.0	+/-50	
Fluoranthene	A	0.50000	0.5	1.2879410	1.2308430		-4.4	+/-50	
Pyrene	A	0.50000	0.5	1.3541610	1.2932540		-4.5	+/-50	
Butylbenzylphthalate	A	0.50000	0.6	0.4650792	0.5809363		13.6	+/-50	
Benzo(a)anthracene	A	0.50000	0.5	1.2117210	1.1194640		-7.6	+/-50	
3,3'-Dichlorobenzidine	A	1.5000	1.5	0.3709370	0.3633984		-2.0	+/-50	
Chrysene	A	0.50000	0.5	1.1445730	1.0504470		-8.2	+/-50	
bis(2-Ethylhexyl)phthalate	A	0.50000	0.5	0.4442323	0.4493412		1.2	+/-50	
Di-n-Octylphthalate	A	0.50000	0.5	0.9601702	0.9074610		-5.5	+/-50	
Benzofluoranthenes, Total	A	1.0000	0.9	1.2153330	1.0502250		-13.6	+/-50	
Benzo(a)pyrene	A	0.50000	0.5	1.0450150	1.0009690		-4.2	+/-50	
Indeno(1,2,3-cd)pyrene	A	0.50000	0.5	1.1879490	1.1327140		-4.7	+/-50	
Dibenzo(a,h)anthracene	A	0.50000	0.5	1.0094890	0.9413514		-6.8	+/-50	
Benzo(g,h,i)perylene	A	0.50000	0.4	0.9951726	0.8833194		-11.2	+/-50	
1-Methylnaphthalene	A	0.50000	0.4	0.6937882	0.6183424		-10.9	+/-50	
2-Fluorophenol	A	0.75000	0.637	1.2814900	1.0889450		-15.0	+/-50	
Phenol-d5	A	0.75000	0.577	1.5836890	1.2192220		-23.0	+/-50	

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

LOW-CONCENTRATION
CONTINUING CALIBRATION CHECK
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	NT14	Calibration:	FL00066
Lab File ID:	NT1423010620.D	Calibration Date:	12/30/2022
Sequence:	SLA0068	Injection Date:	01/06/23
Lab Sample ID:	SLA0068-LCV2	Injection Time:	23:03
Sequence Name:	ABN 0.5		

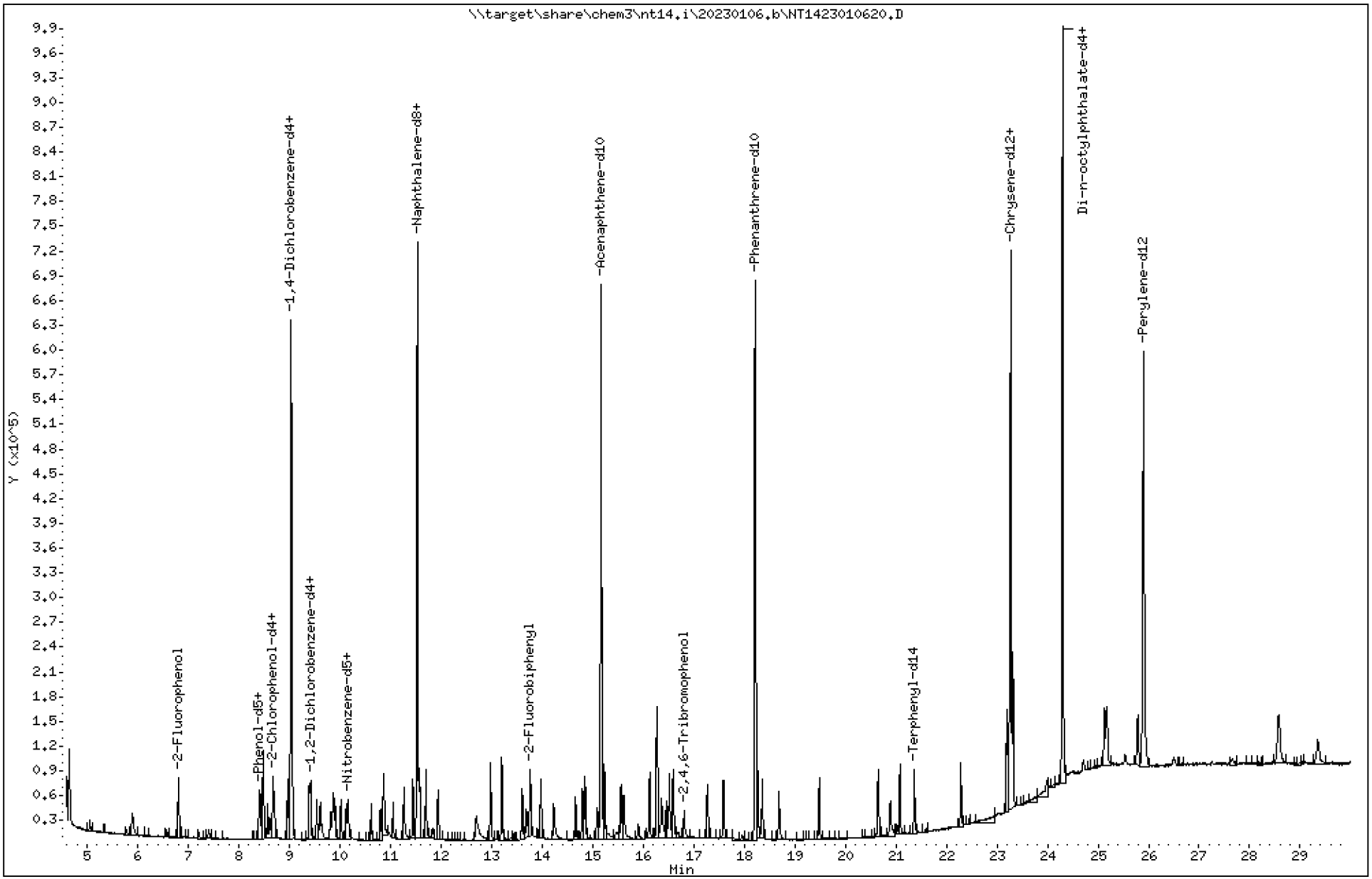
		CONC. (ug/mL)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
2-Chlorophenol-d4	A	0.75000	0.644	1.3300510	1.1416290		-14.2	+/-50
1,2-Dichlorobenzene-d4	A	0.50000	0.457	0.9090592	0.8315331		-8.5	+/-50
Nitrobenzene-d5	A	0.50000	0.492	0.3377760	0.3325846		-1.5	+/-50
2-Fluorobiphenyl	A	0.50000	0.459	1.3448860	1.2354910		-8.1	+/-50
2,4,6-Tribromophenol	A	0.75000	0.456	0.1844845	0.1140864		-39.2	+/-50
p-Terphenyl-d14	A	0.50000	0.466	0.9601842	0.8947914		-6.8	+/-50

* Values outside of QC limits

Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010620.D
Date : 06-JAN-2023 23:03
Client ID:
Sample Info: SLA0068-LCV2

Instrument: nt14.i
Operator: VTS
Column diameter: 0.25

Column phase: ZB-5msi



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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

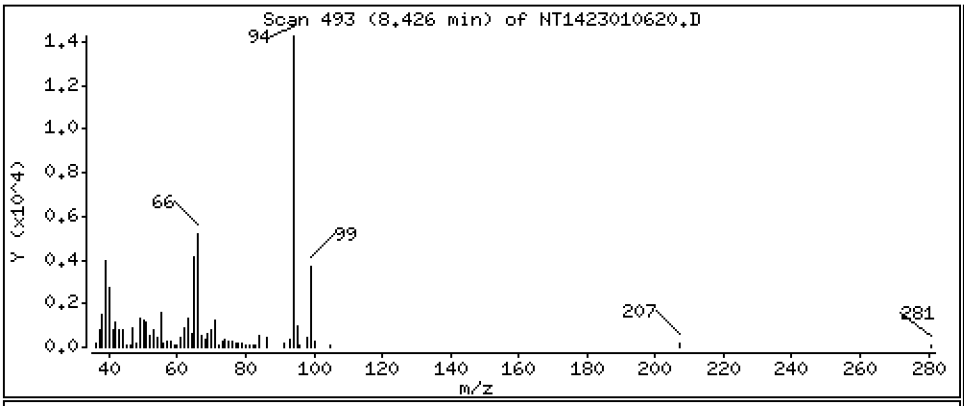
Operator: VTS

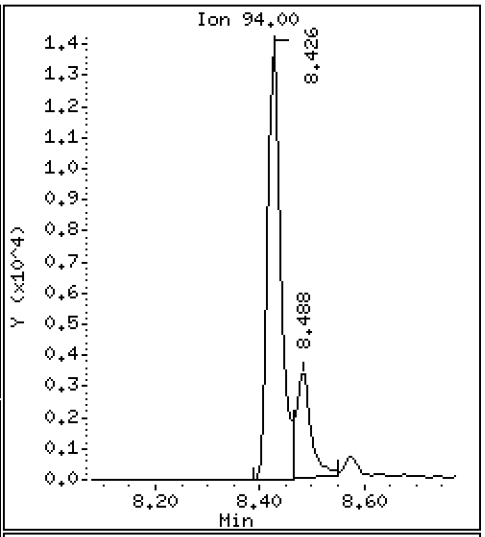
Column phase: ZB-5msi

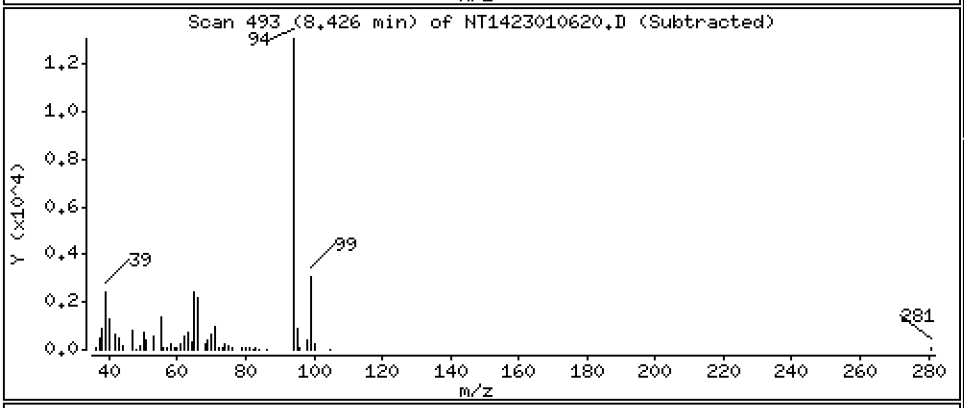
Column diameter: 0.25

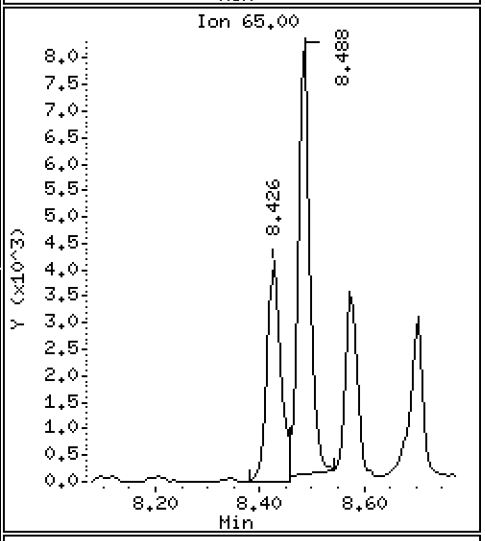
3 Phenol

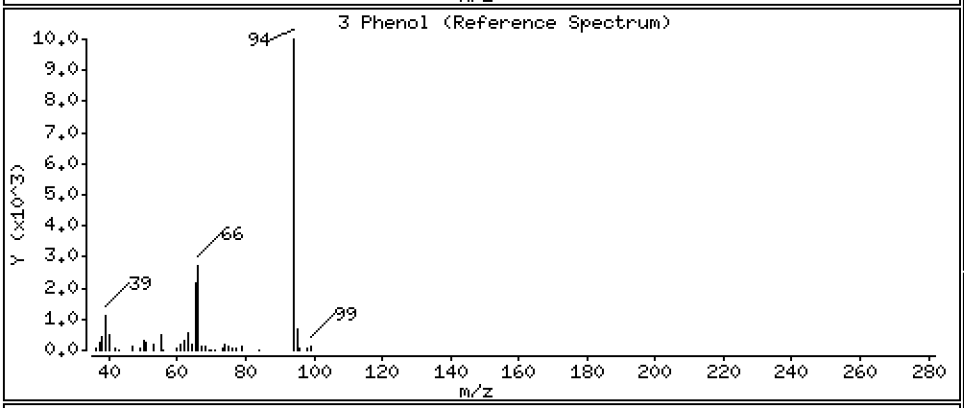
Concentration: 0.3625 ug/mL

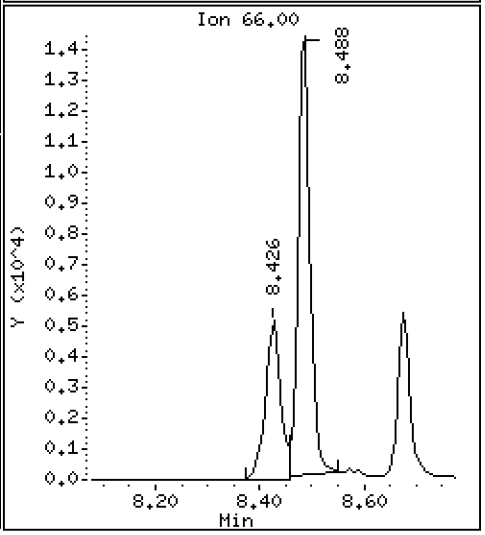


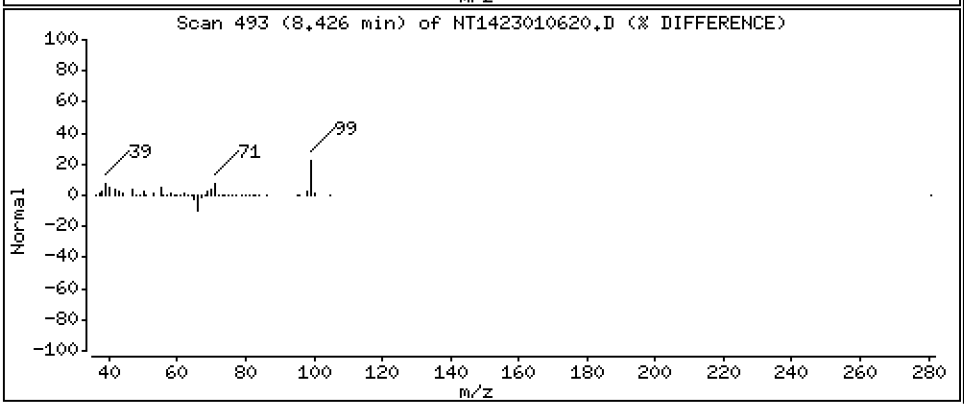












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

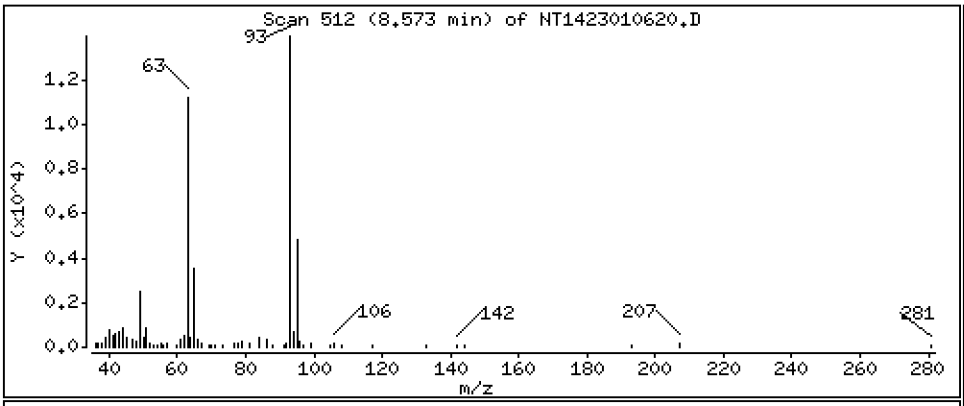
Operator: VTS

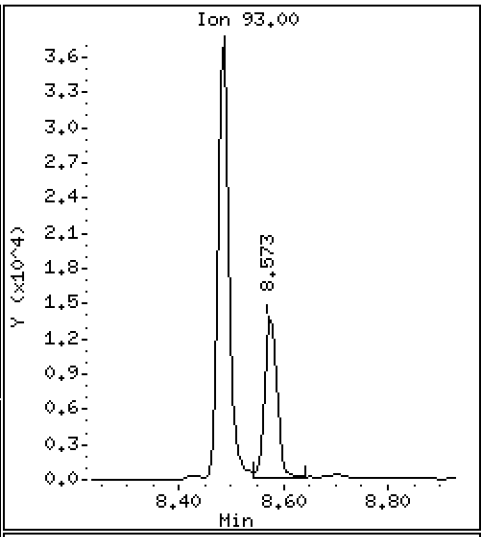
Column phase: ZB-5msi

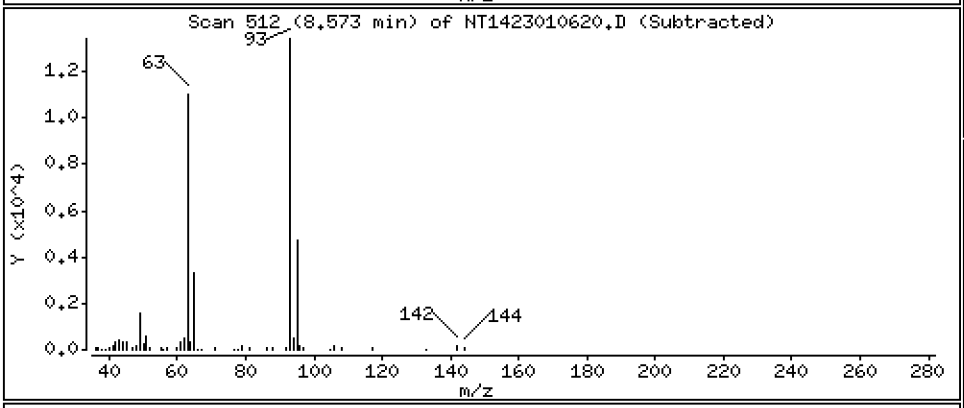
Column diameter: 0.25

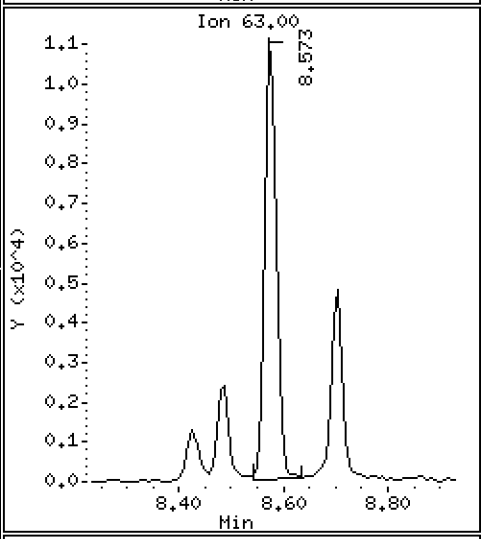
4 Bis(2-Chloroethyl)ether

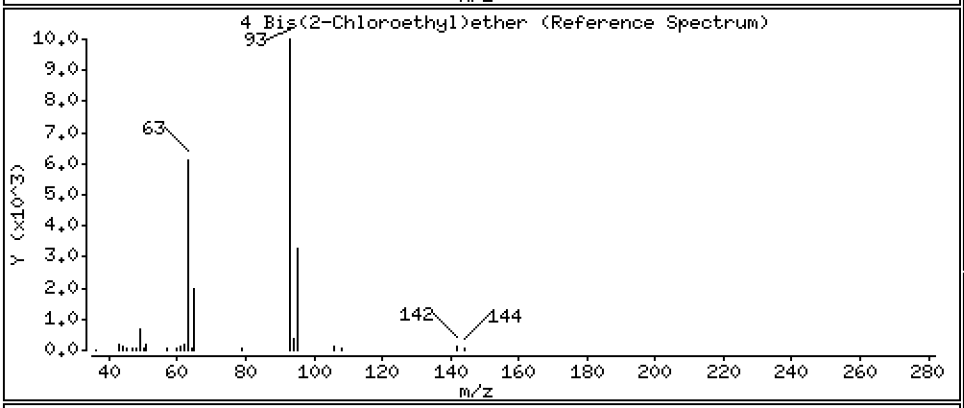
Concentration: 0.4754 ug/mL

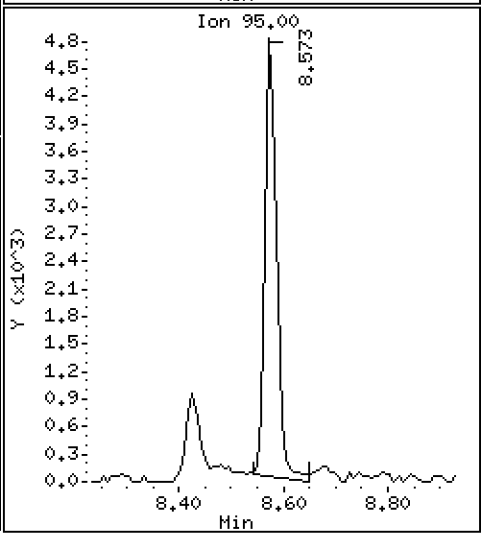


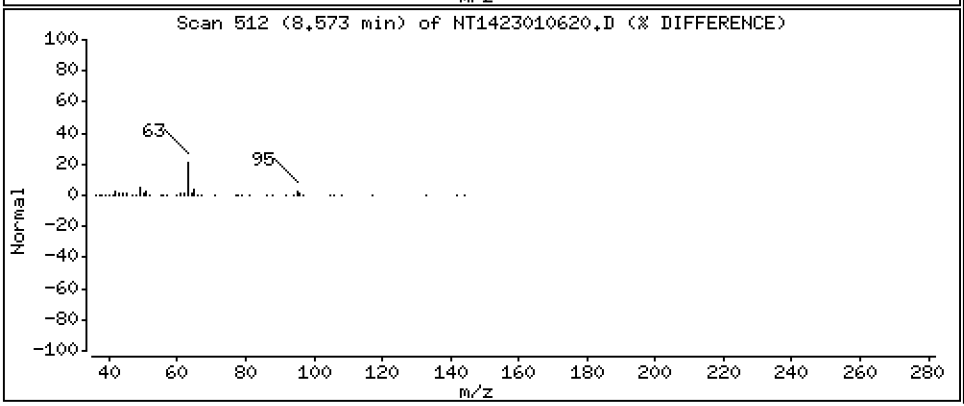












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

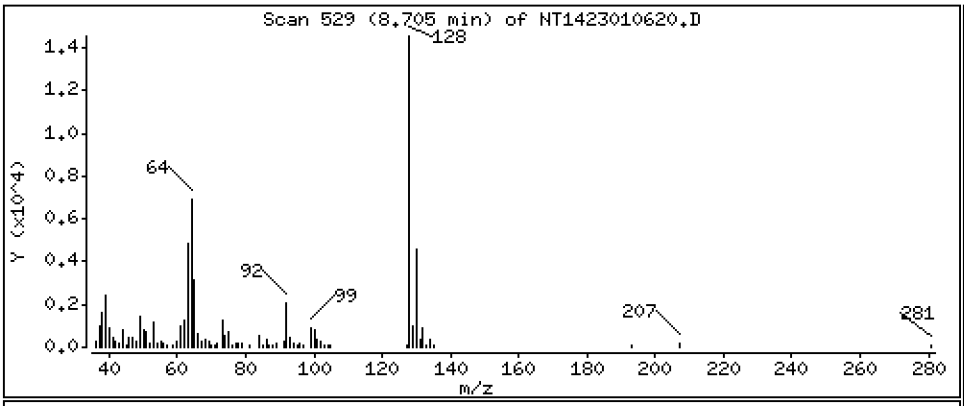
Operator: VTS

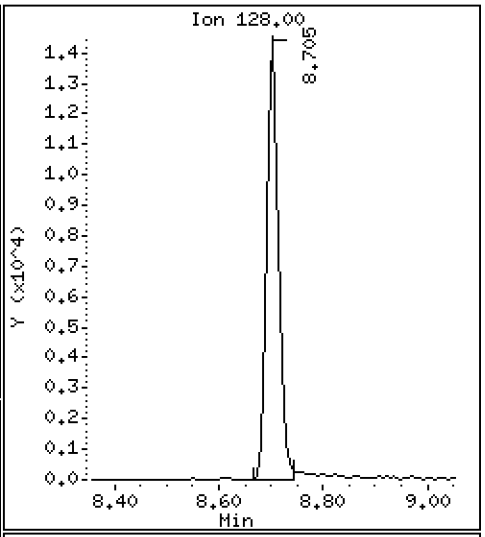
Column phase: ZB-5msi

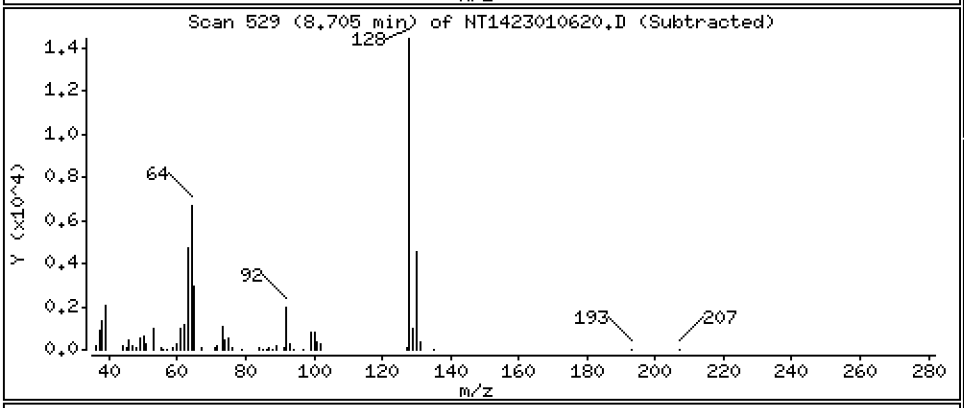
Column diameter: 0.25

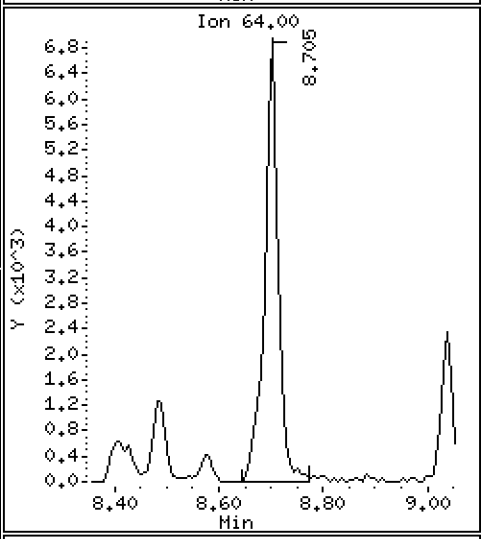
6 2-Chlorophenol

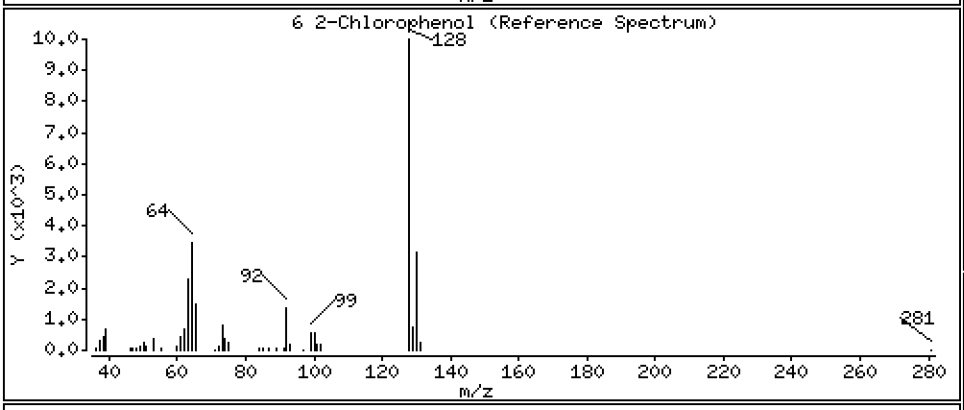
Concentration: 0.4200 ug/mL

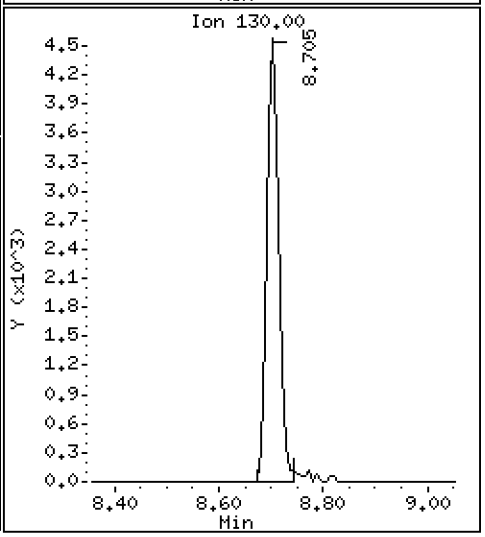


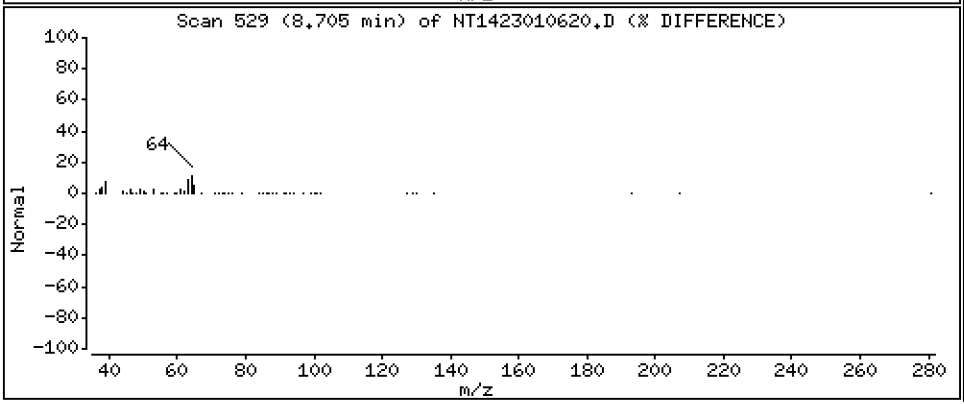












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

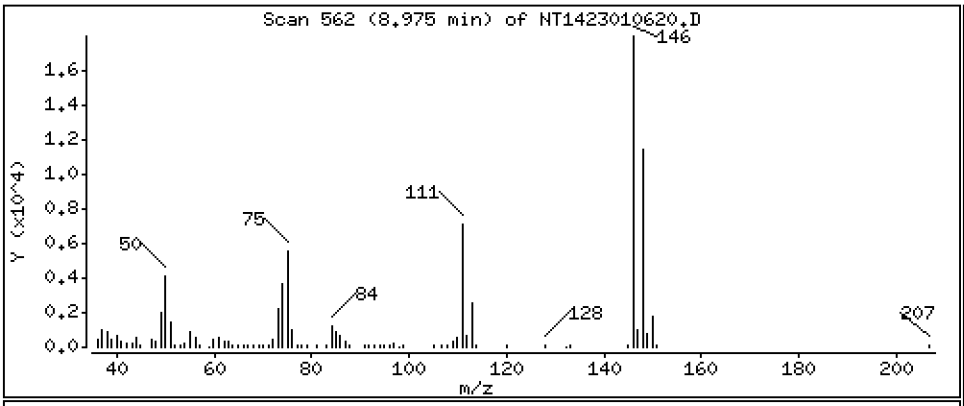
Operator: VTS

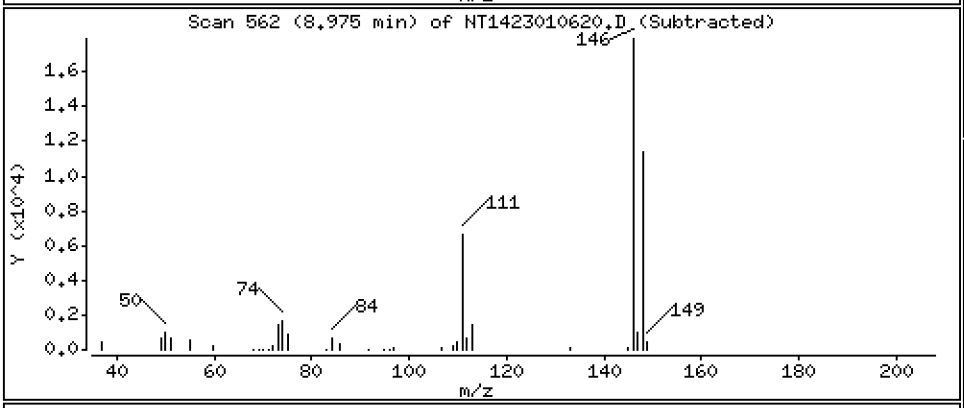
Column phase: ZB-5msi

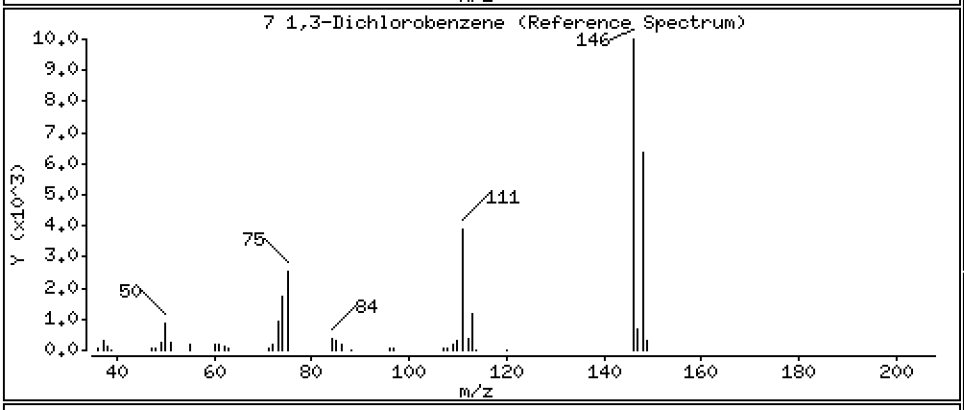
Column diameter: 0.25

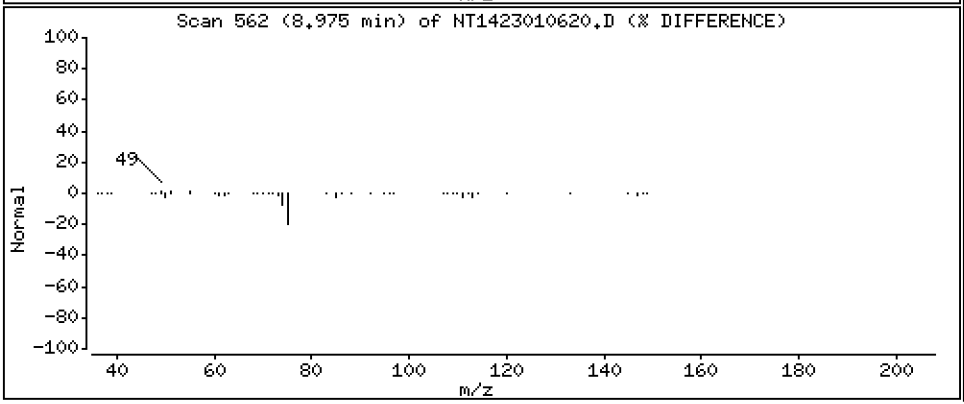
7 1,3-Dichlorobenzene

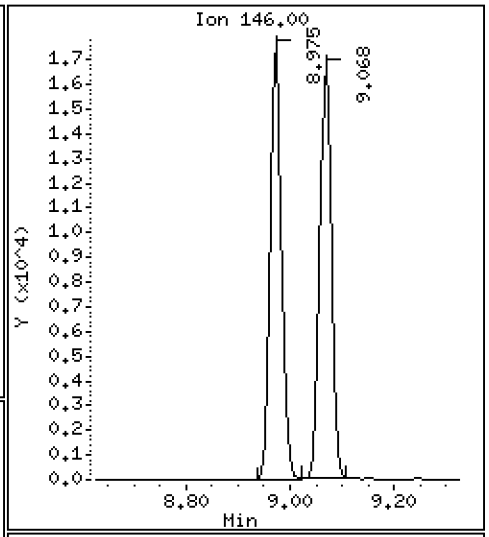
Concentration: 0.4710 ug/mL

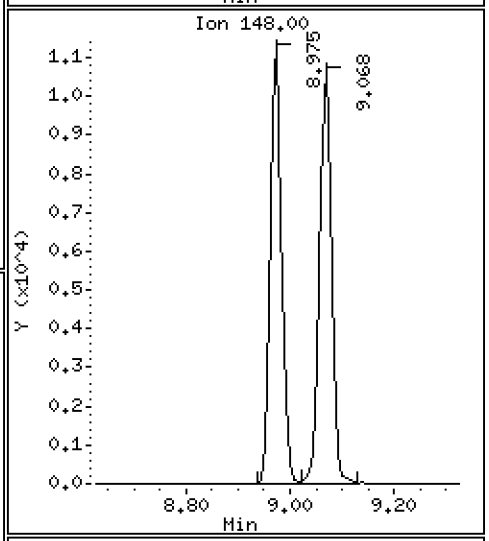


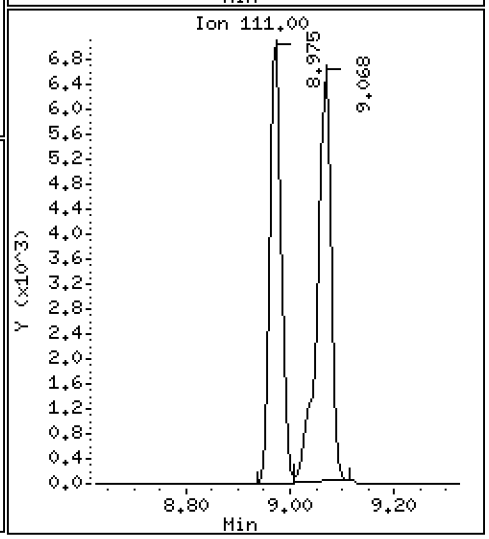












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

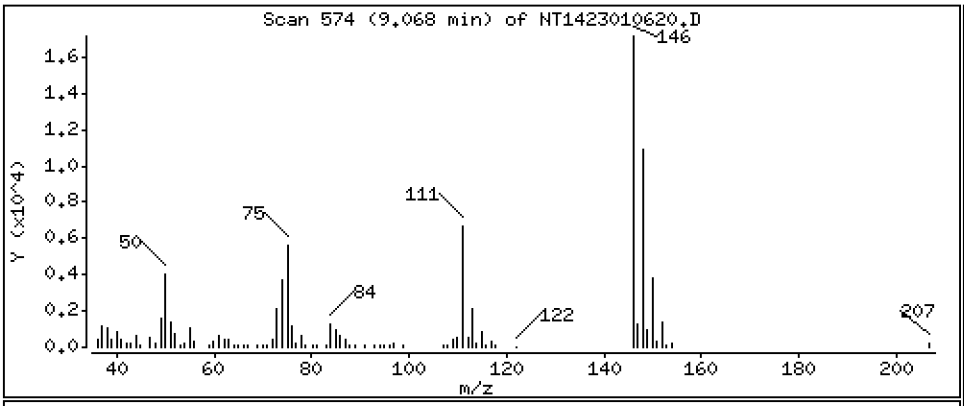
Operator: VTS

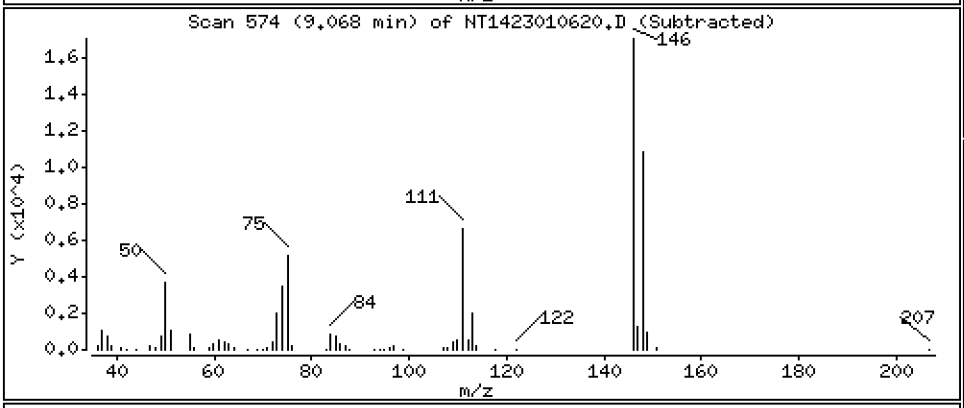
Column phase: ZB-5msi

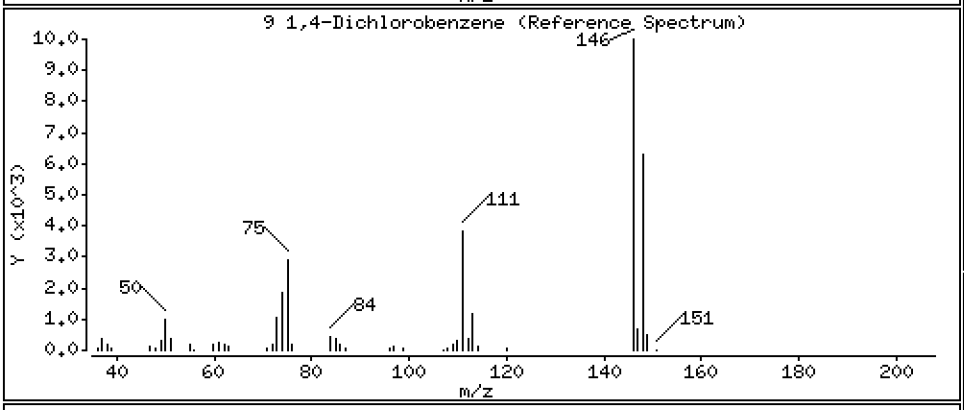
Column diameter: 0.25

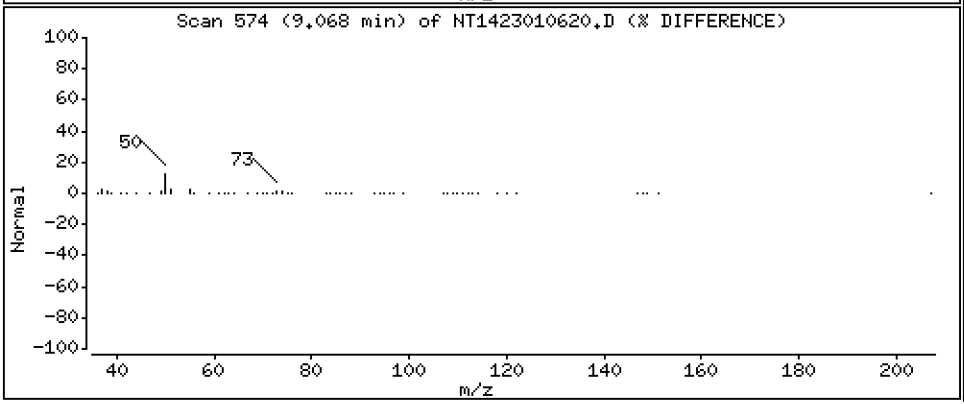
9 1,4-Dichlorobenzene

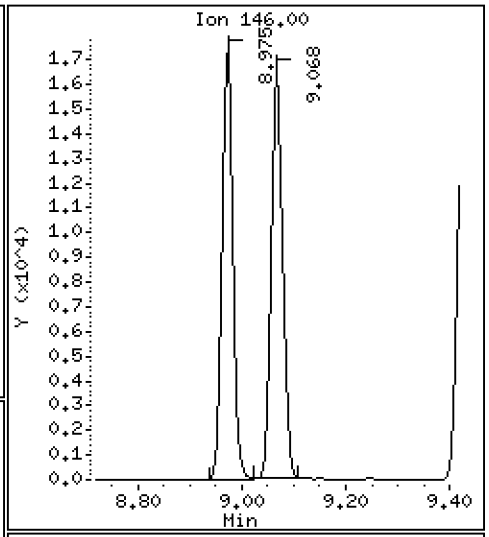
Concentration: 0.4624 ug/mL

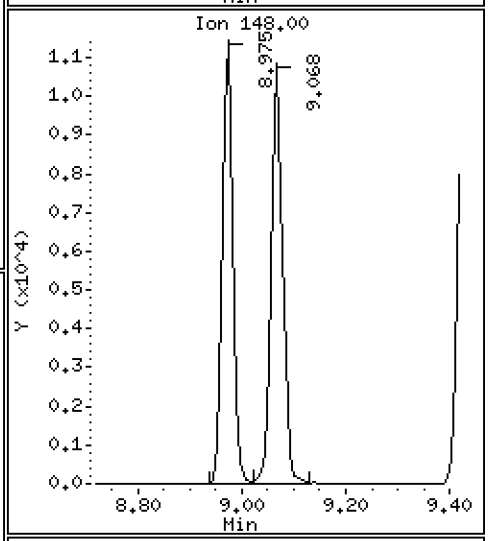


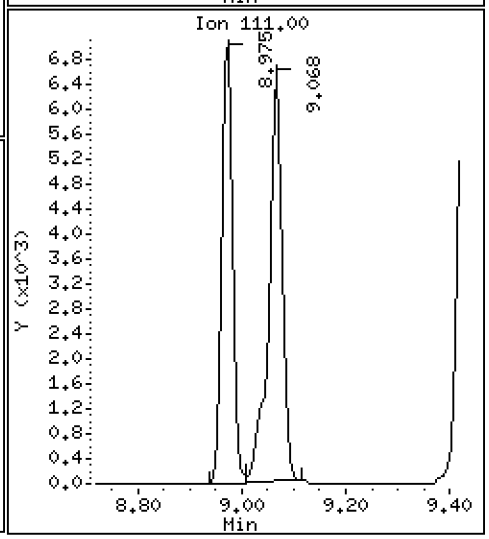












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

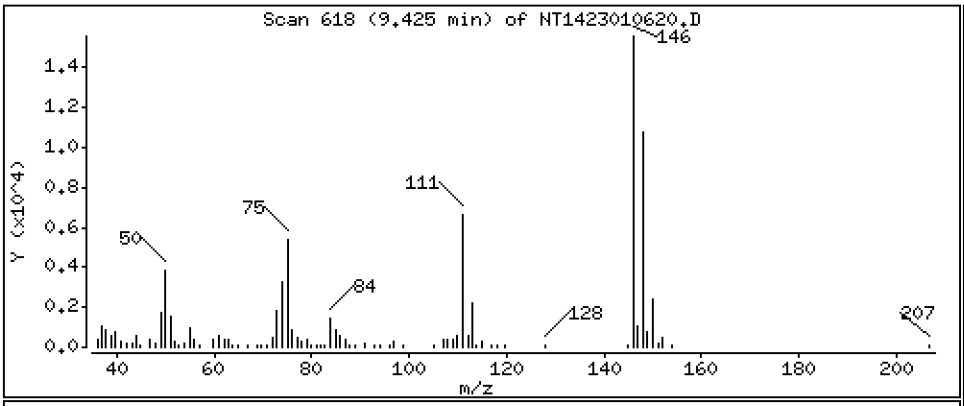
Operator: VTS

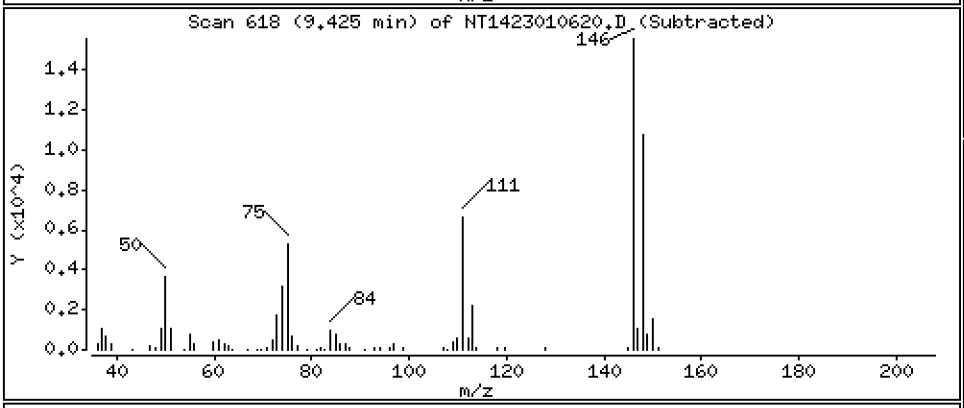
Column phase: ZB-5msi

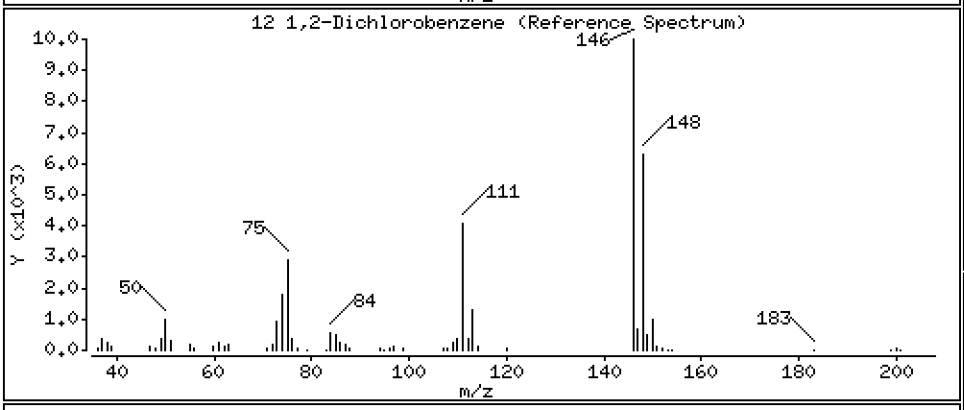
Column diameter: 0.25

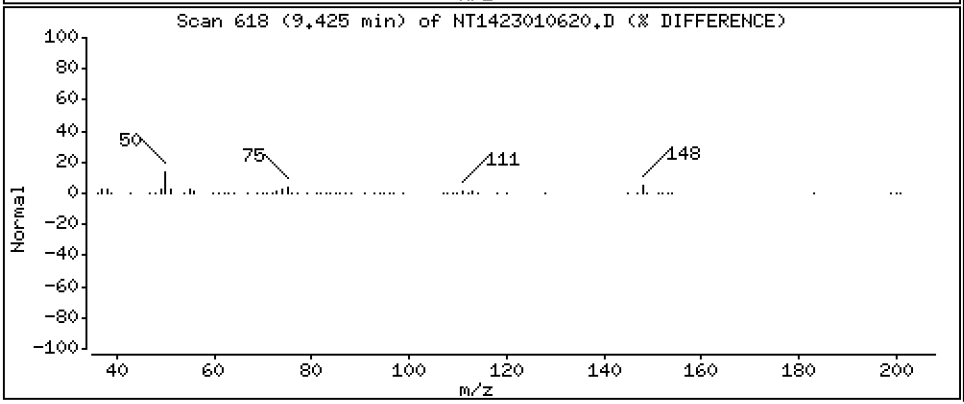
12 1,2-Dichlorobenzene

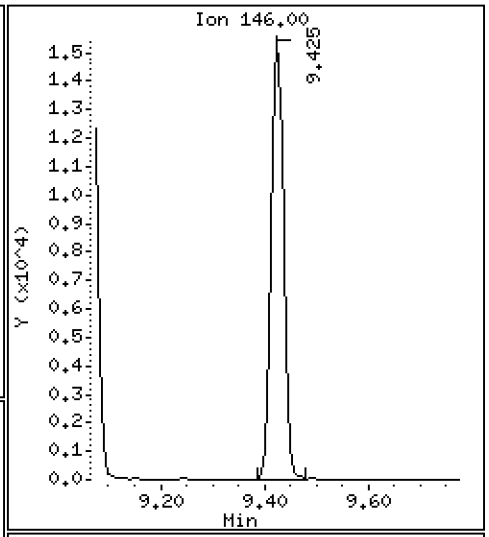
Concentration: 0.4614 ug/mL

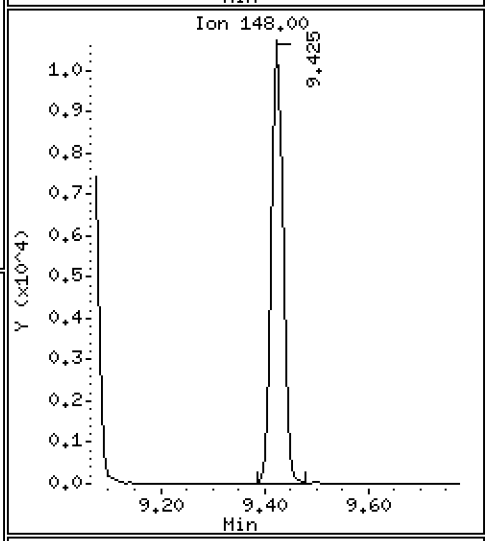


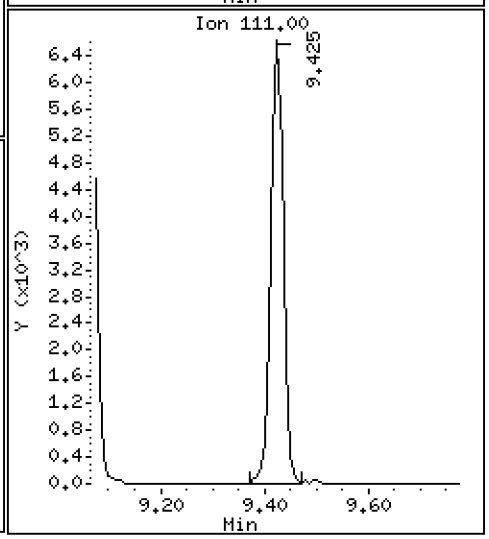












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

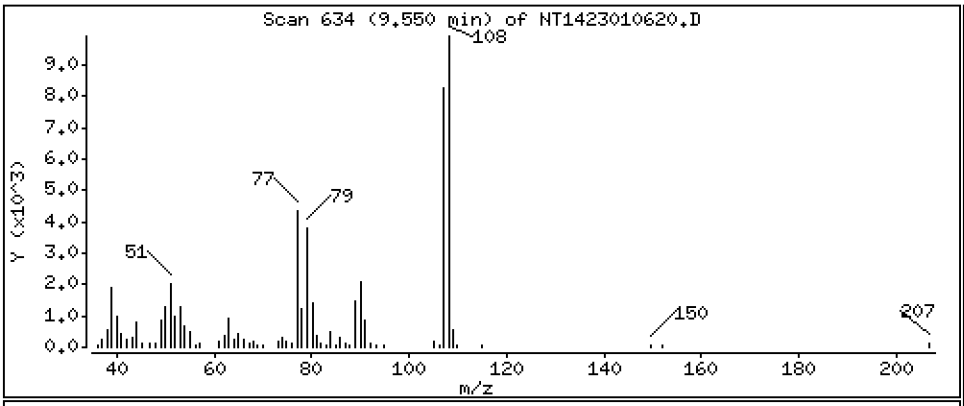
Operator: VTS

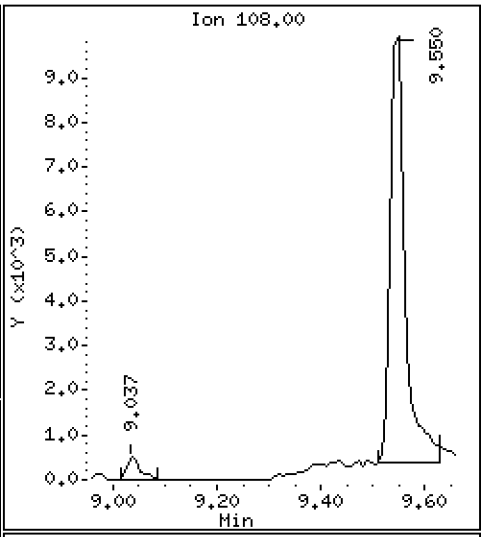
Column phase: ZB-5msi

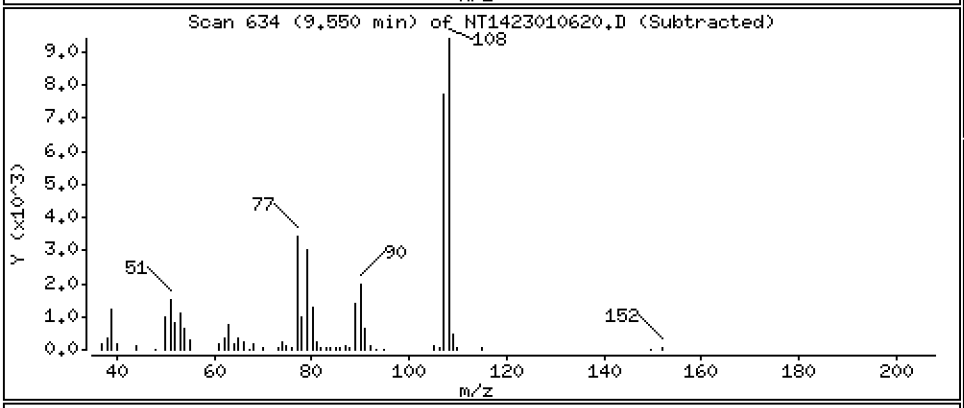
Column diameter: 0.25

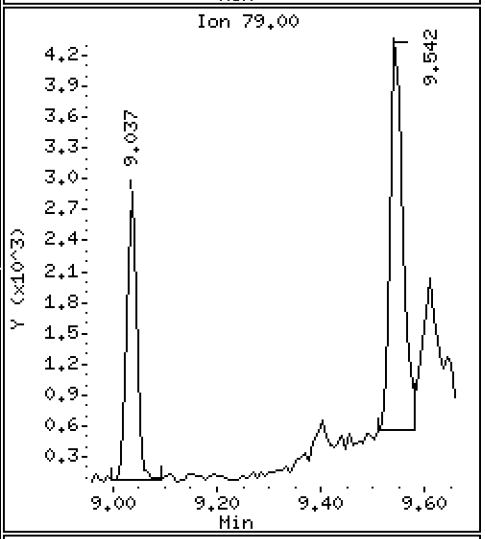
11 Benzyl alcohol

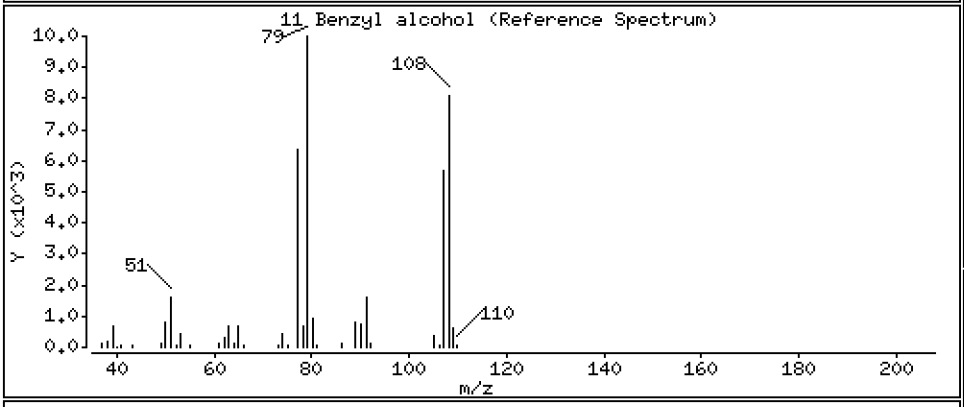
Concentration: 0.6266 ug/mL

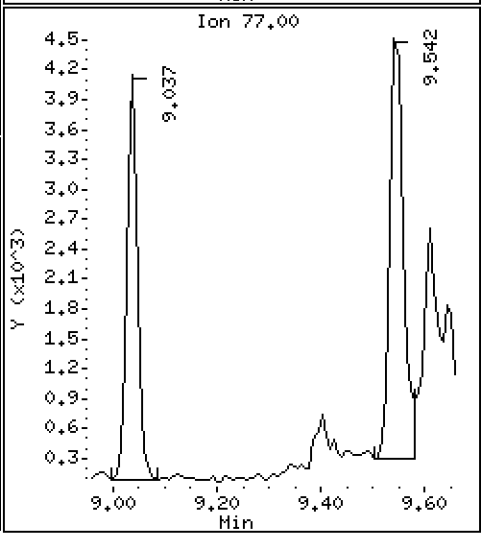


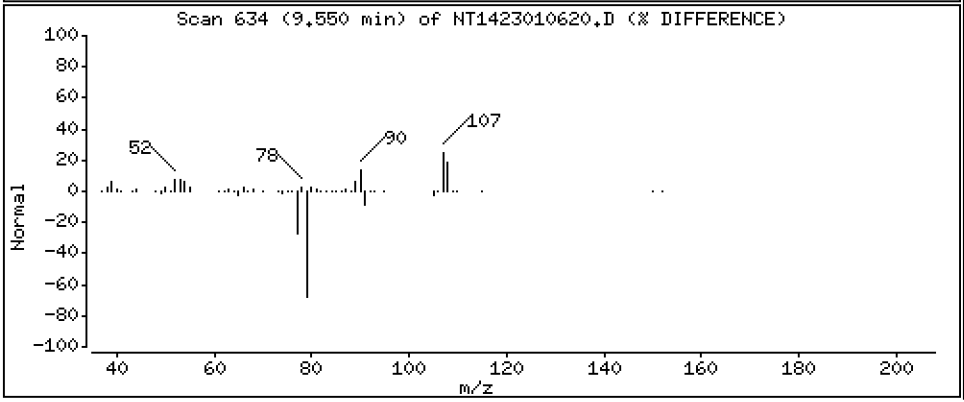












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

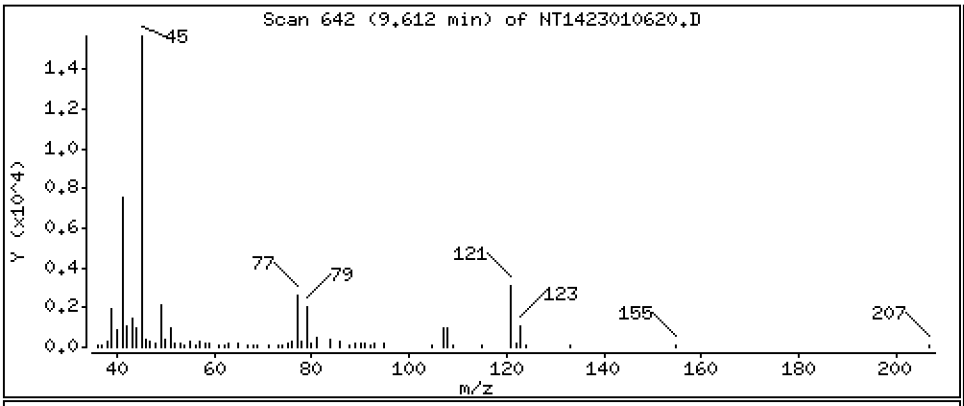
Operator: VTS

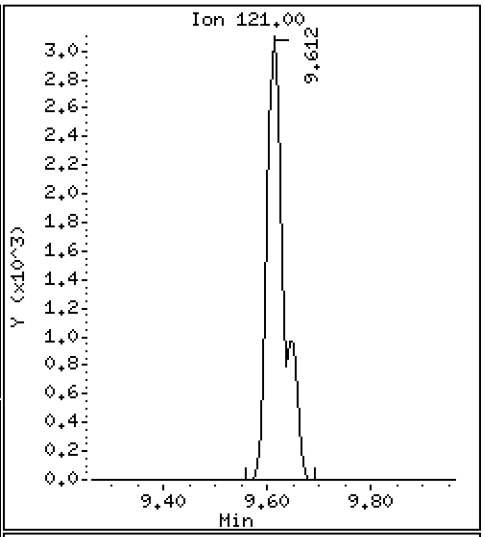
Column phase: ZB-5msi

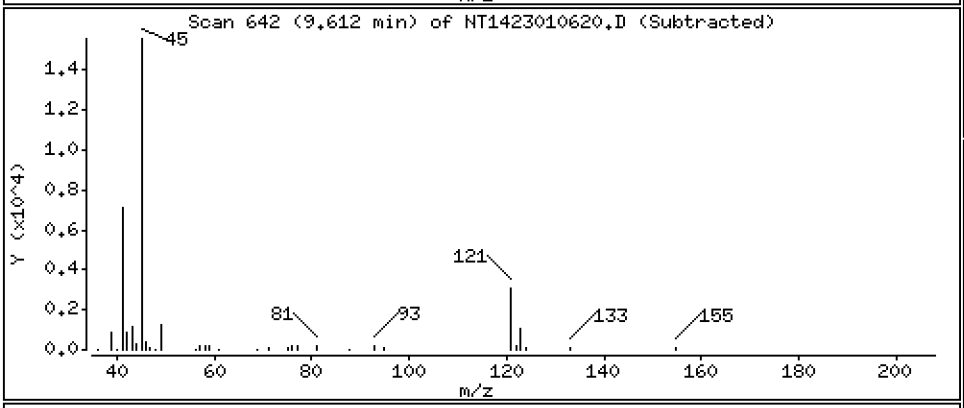
Column diameter: 0.25

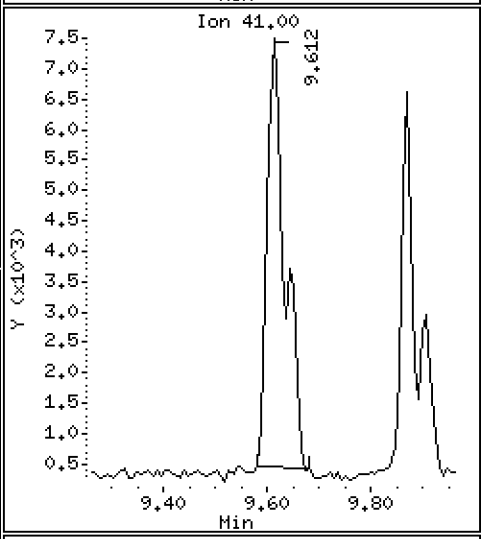
14 2,2'-oxybis(1-Chloropropane)

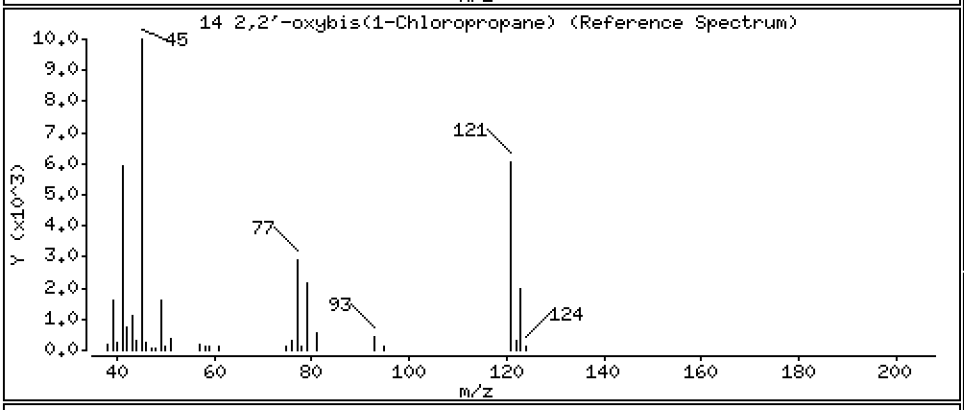
Concentration: 0.4599 ug/mL

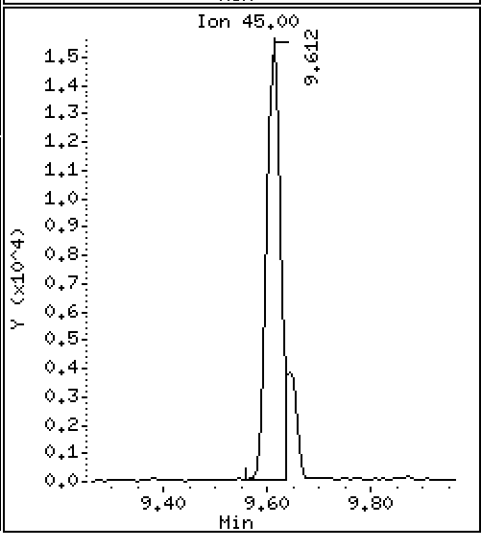


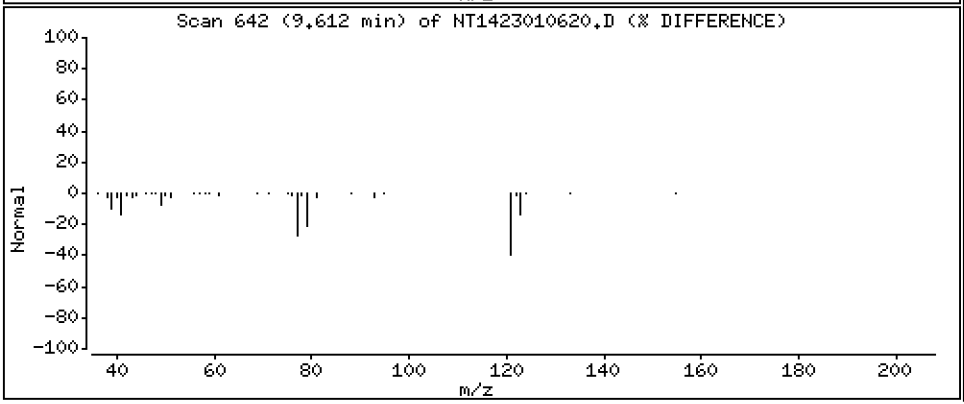












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

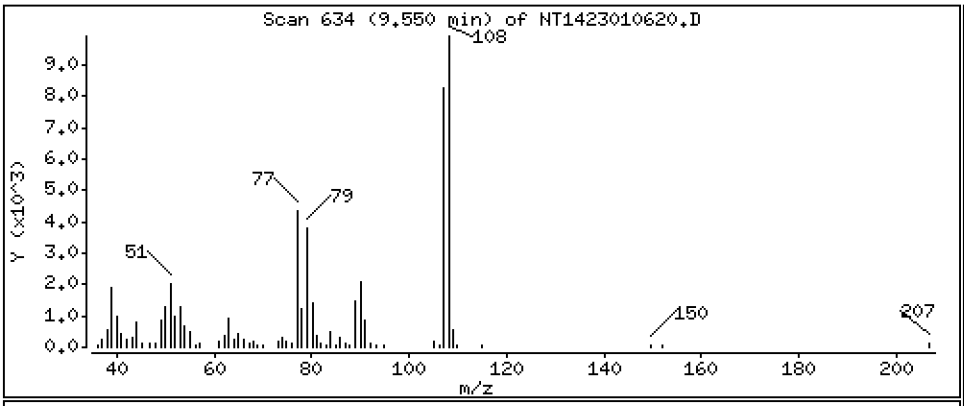
Operator: VTS

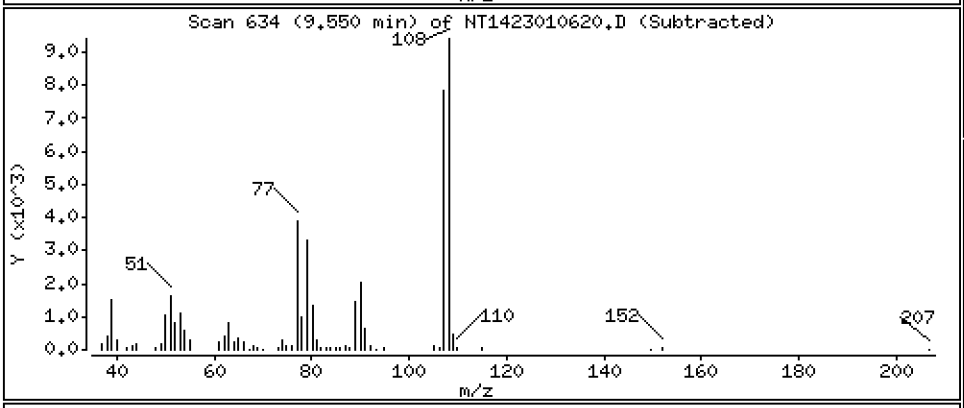
Column phase: ZB-5msi

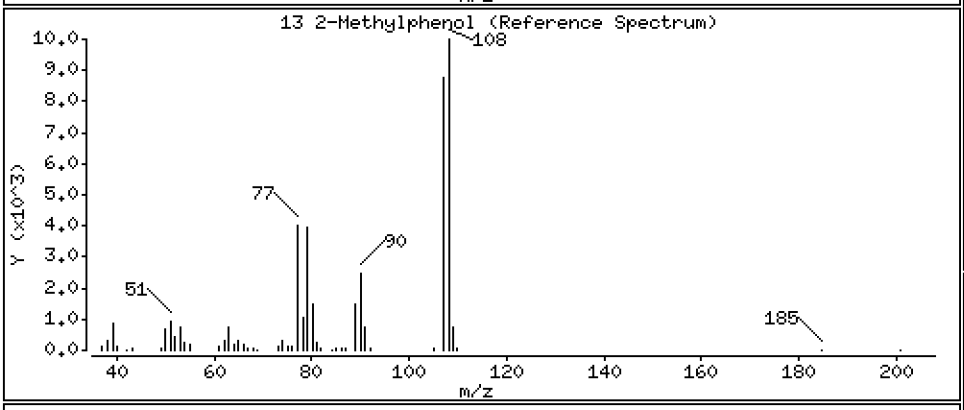
Column diameter: 0.25

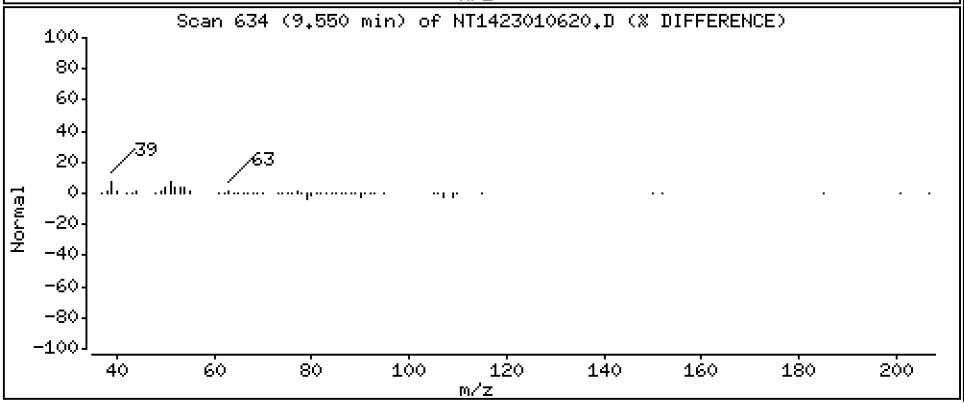
13 2-Methylphenol

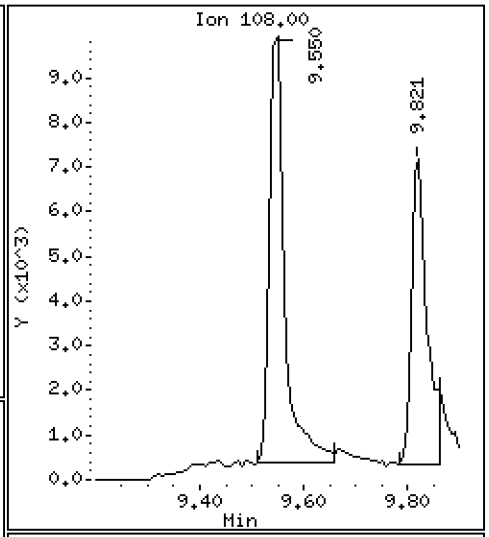
Concentration: 0.3934 ug/mL

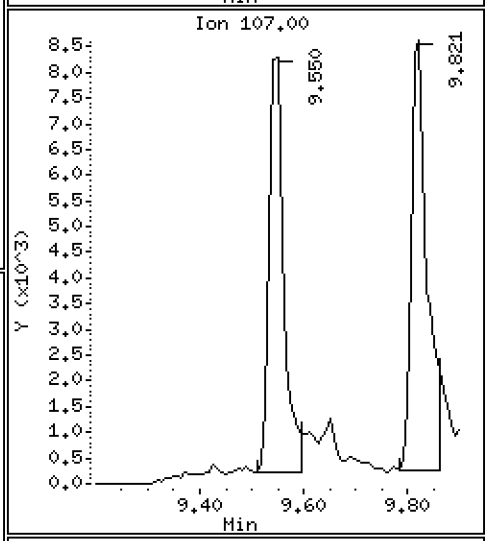


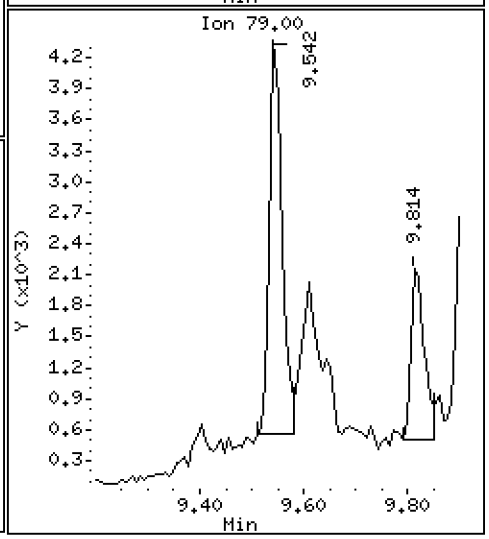












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

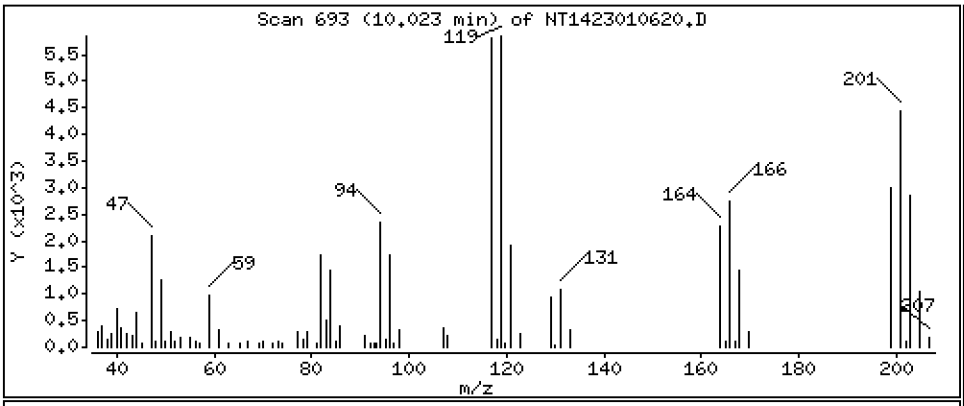
Operator: VTS

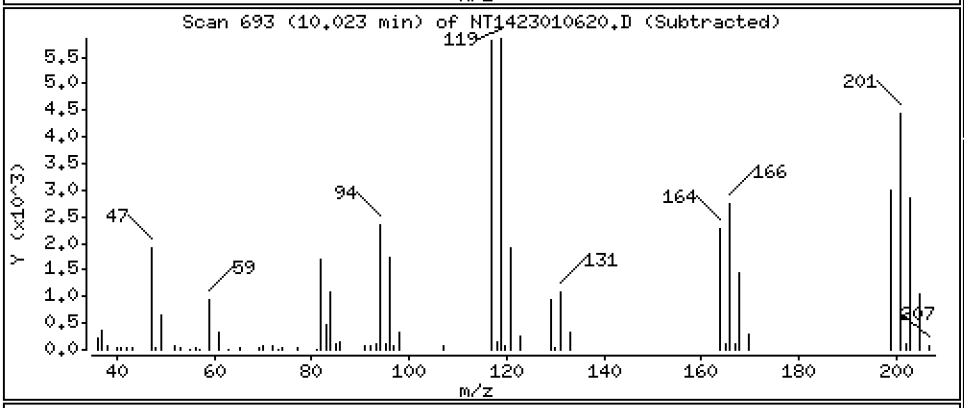
Column phase: ZB-5msi

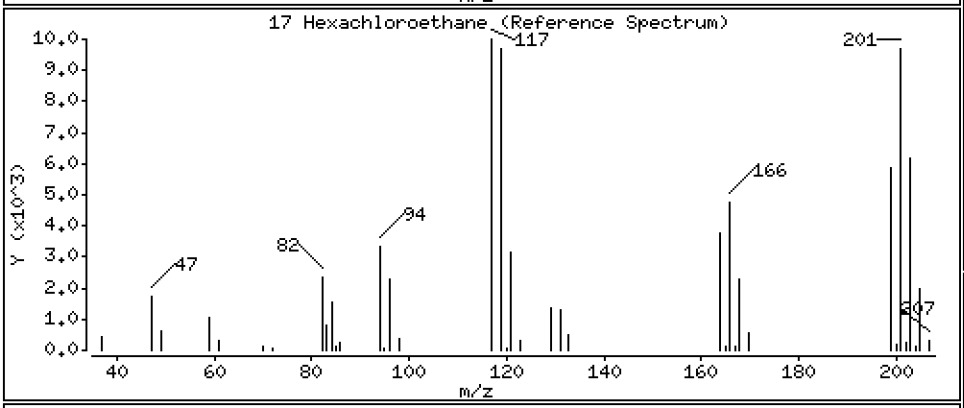
Column diameter: 0.25

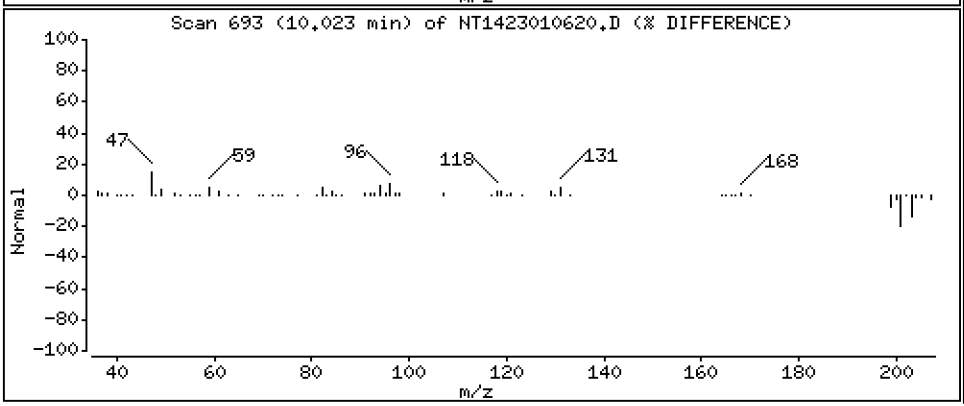
17 Hexachloroethane

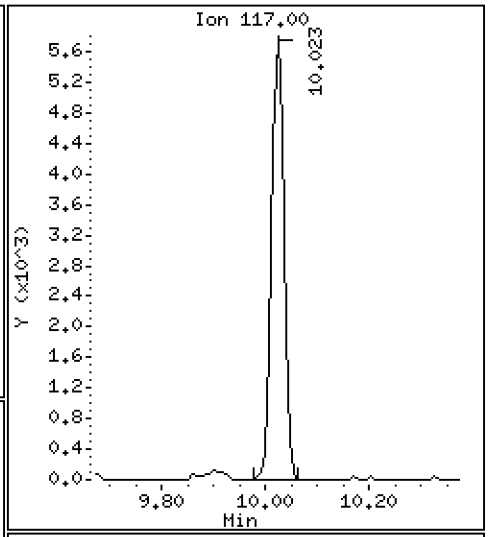
Concentration: 0.4650 ug/mL

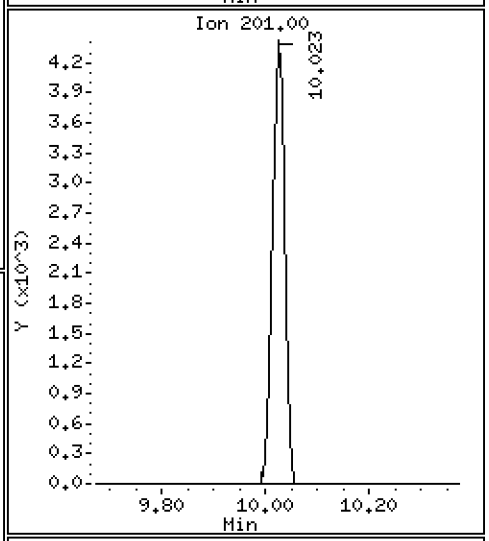


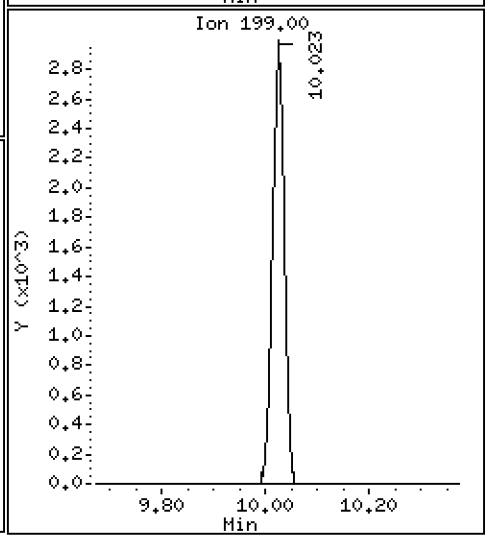












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

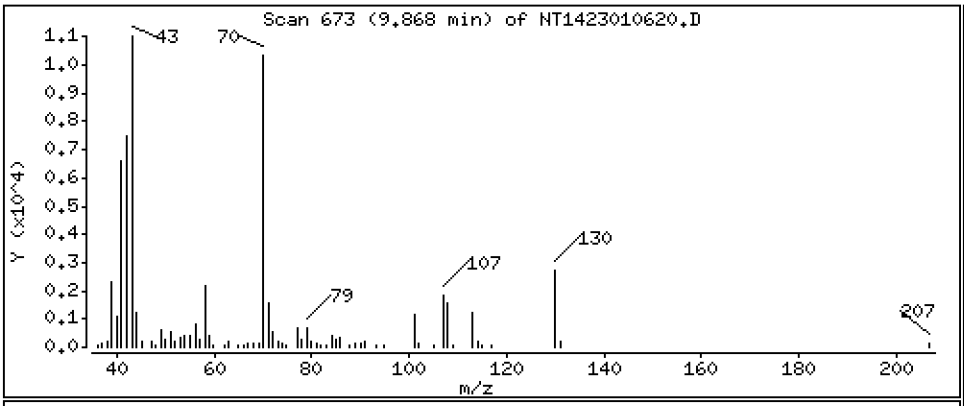
Operator: VTS

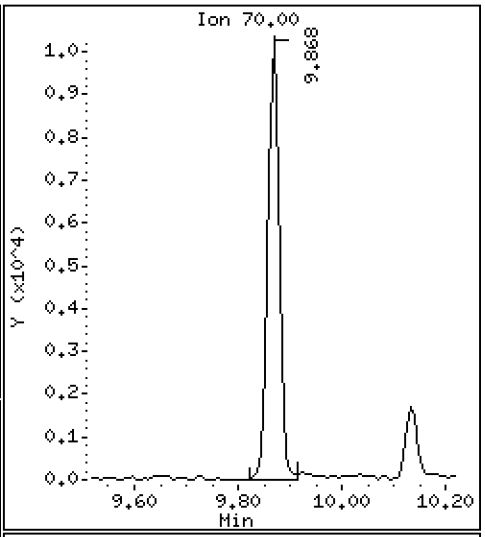
Column phase: ZB-5msi

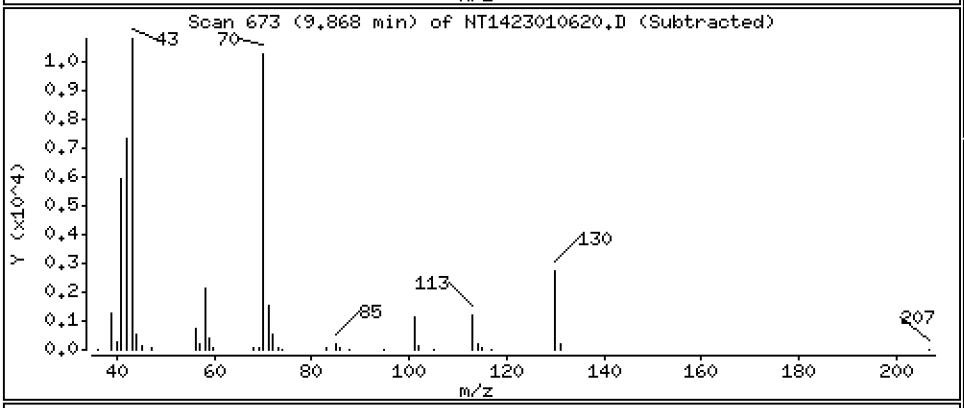
Column diameter: 0.25

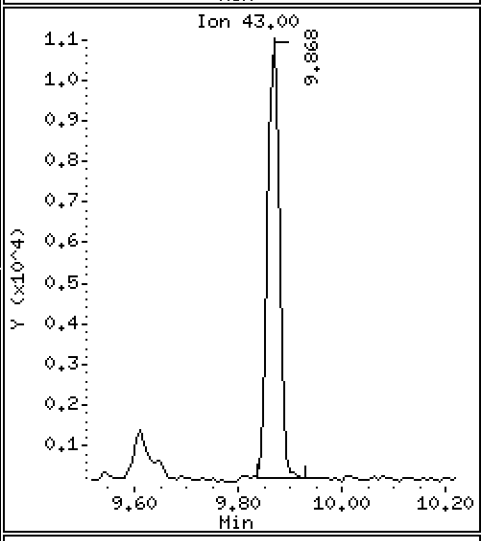
16 N-Nitroso-di-n-propylamine

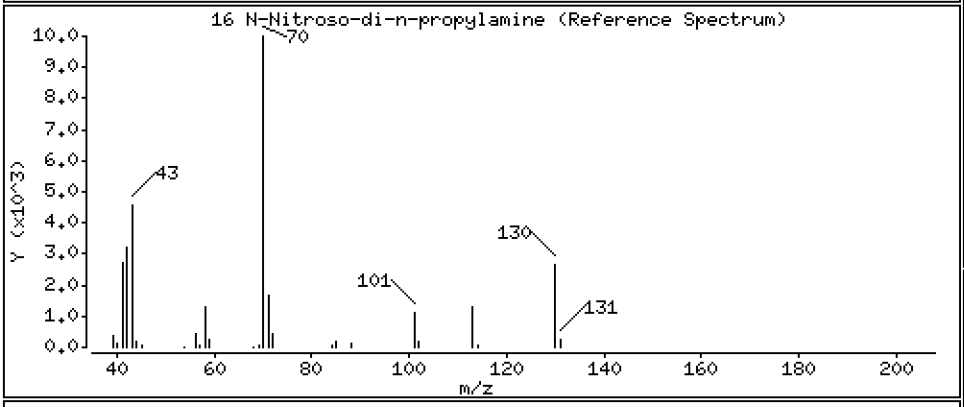
Concentration: 0.5155 ug/mL

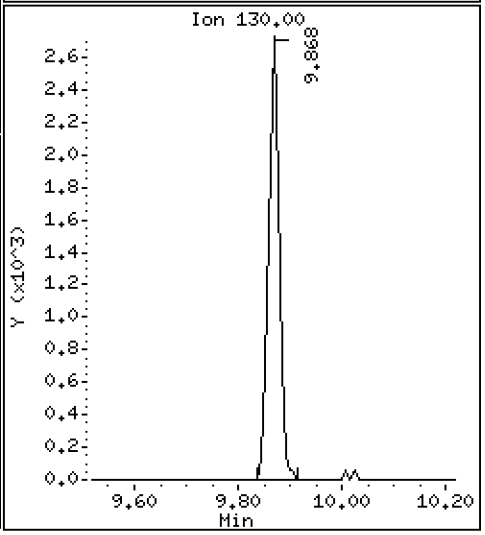


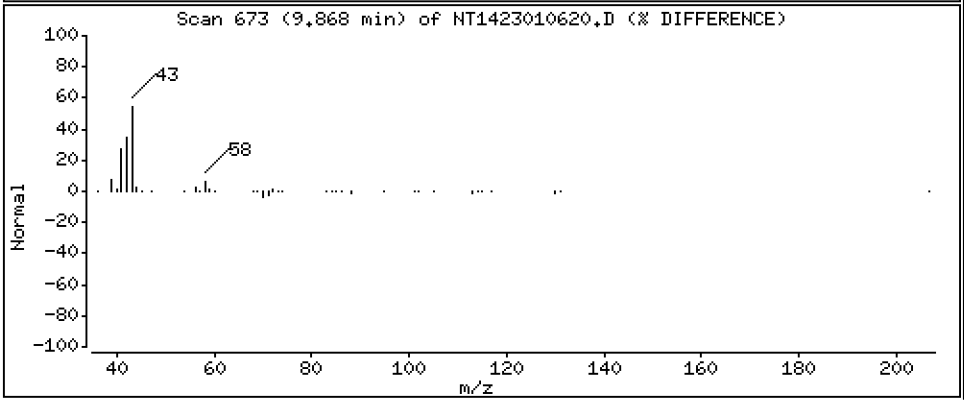












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

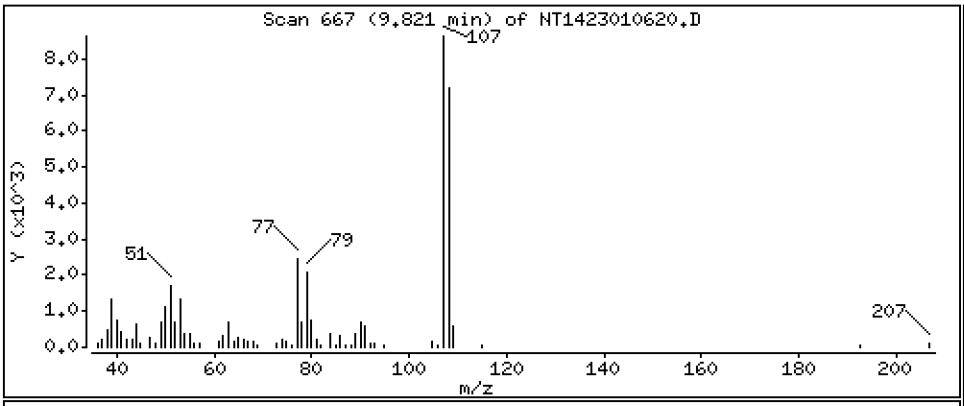
Operator: VTS

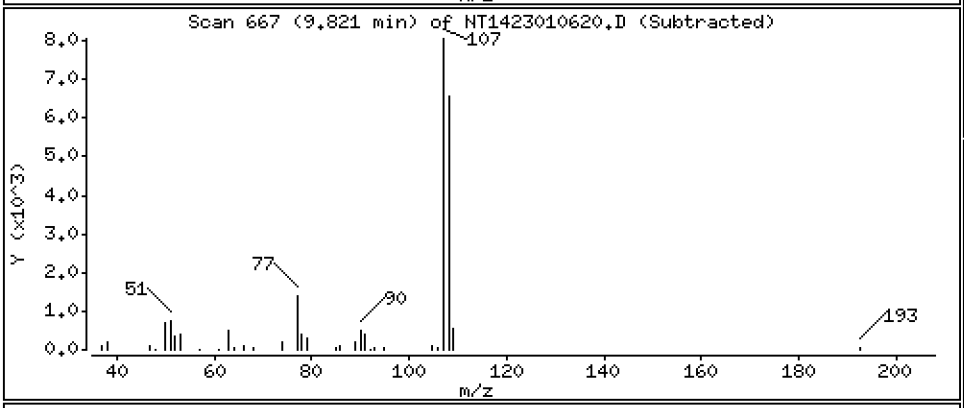
Column phase: ZB-5msi

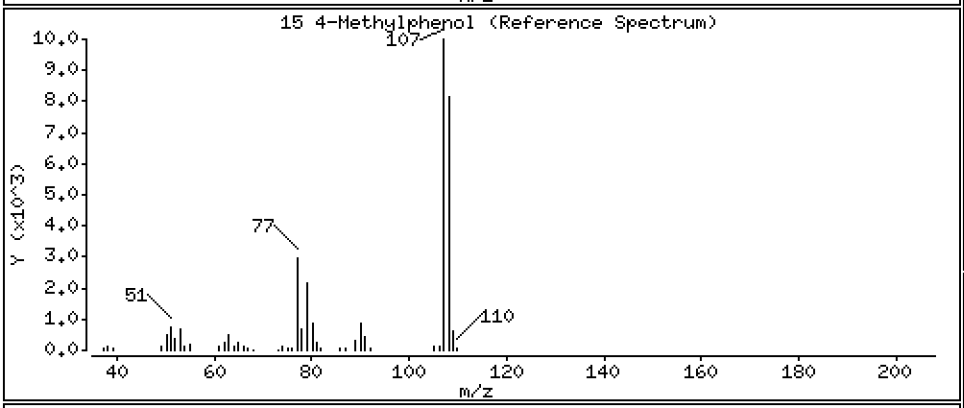
Column diameter: 0.25

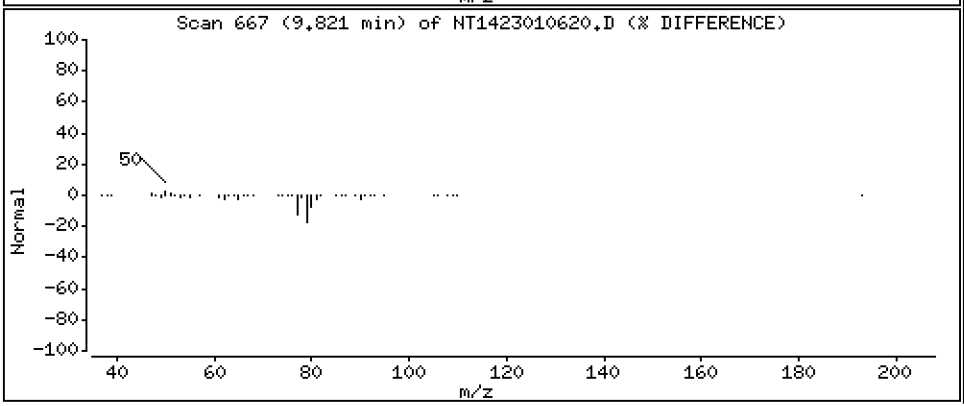
15 4-Methylphenol

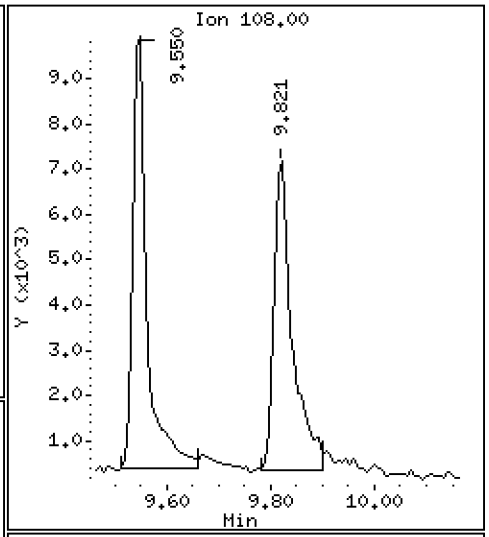
Concentration: 0.3300 ug/mL

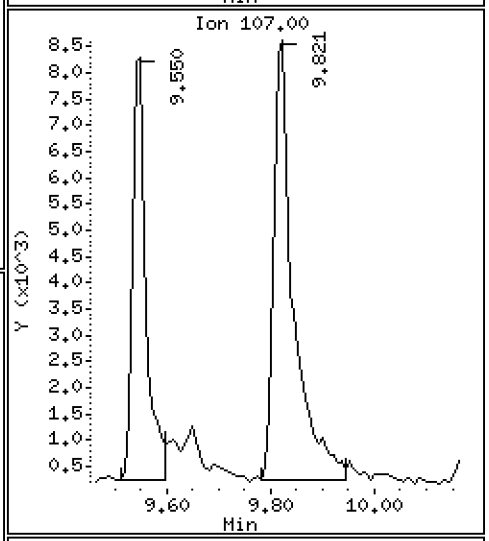


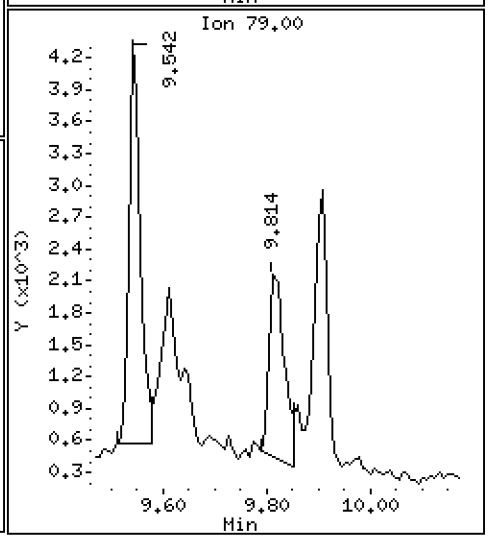












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

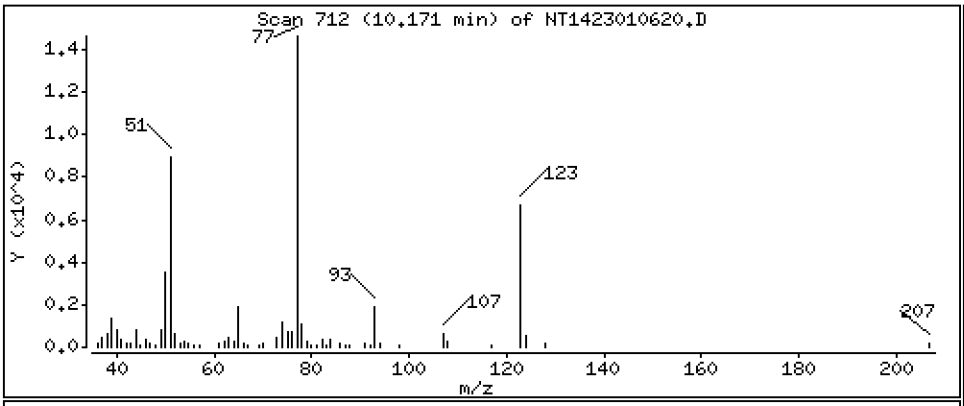
Operator: VTS

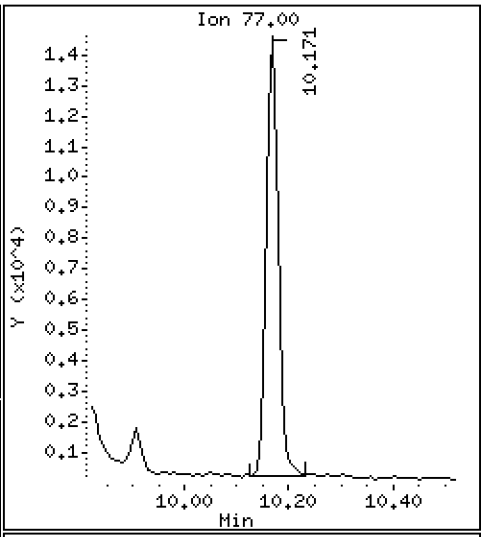
Column phase: ZB-5msi

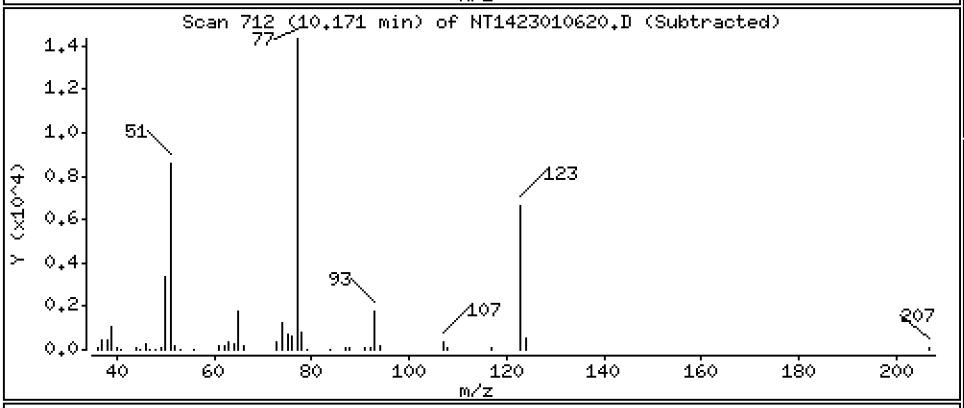
Column diameter: 0.25

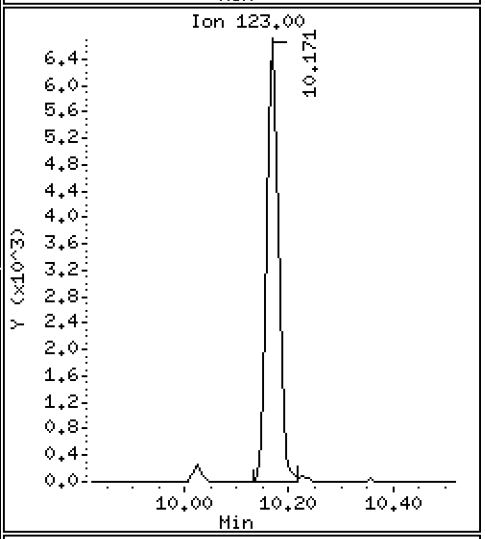
19 Nitrobenzene

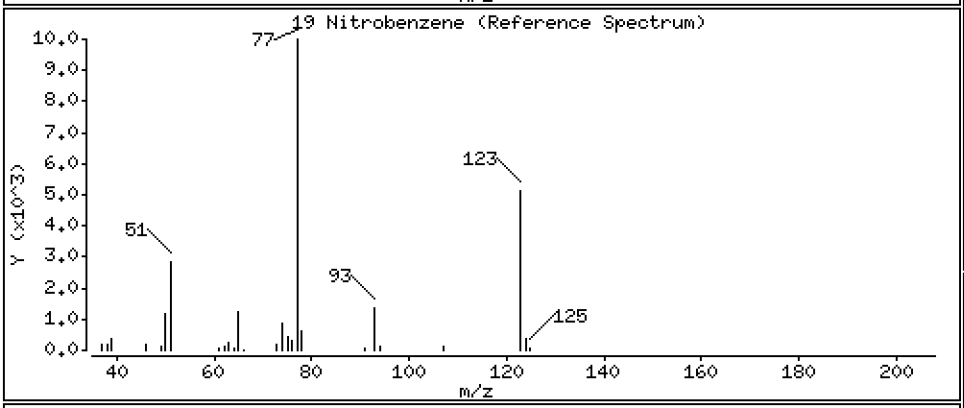
Concentration: 0.4923 ug/mL

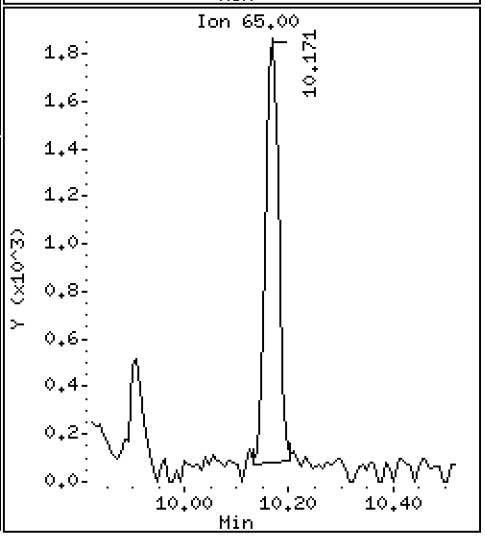


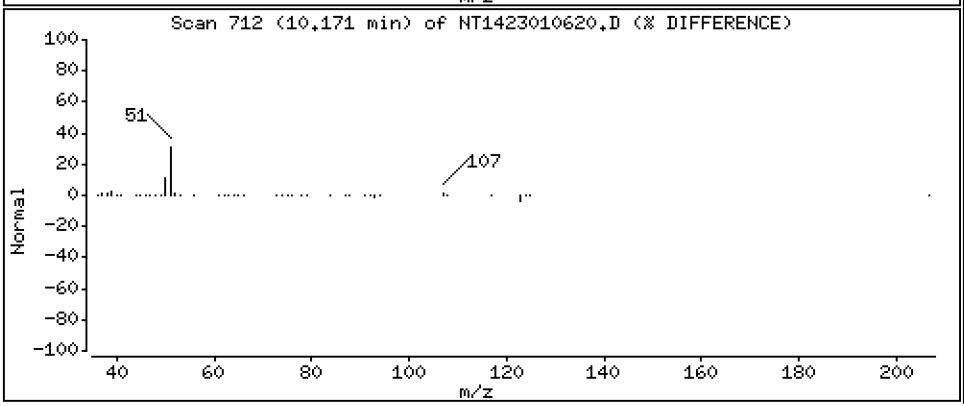












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

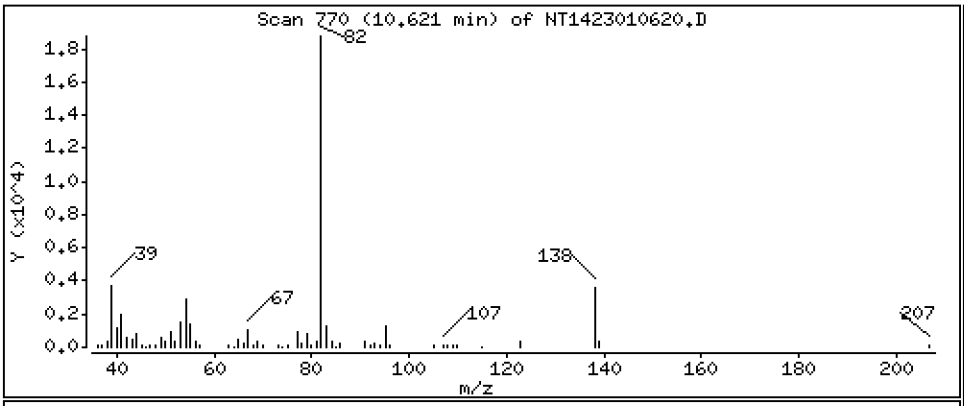
Operator: VTS

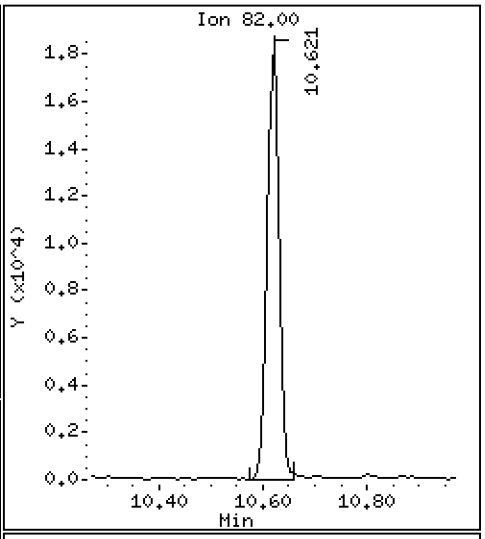
Column phase: ZB-5msi

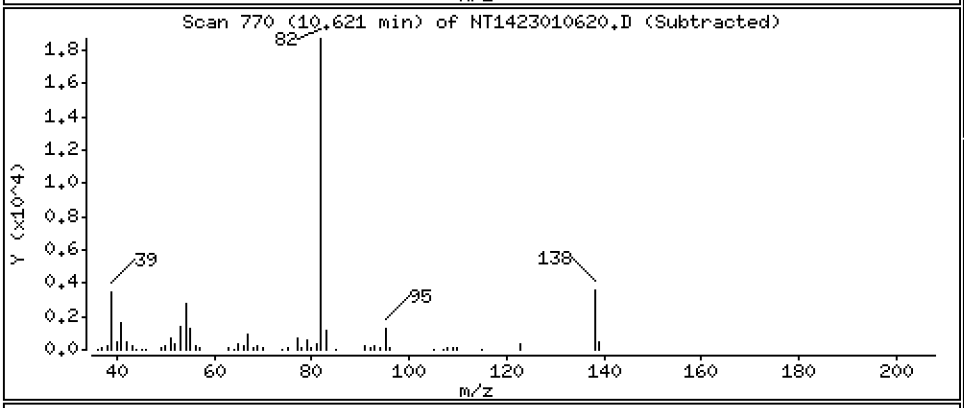
Column diameter: 0.25

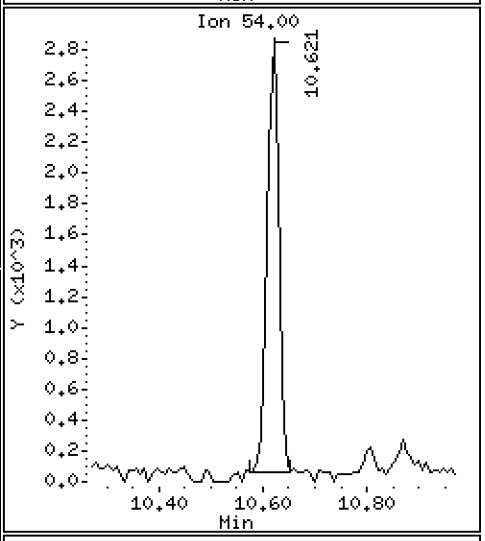
20 Isophorone

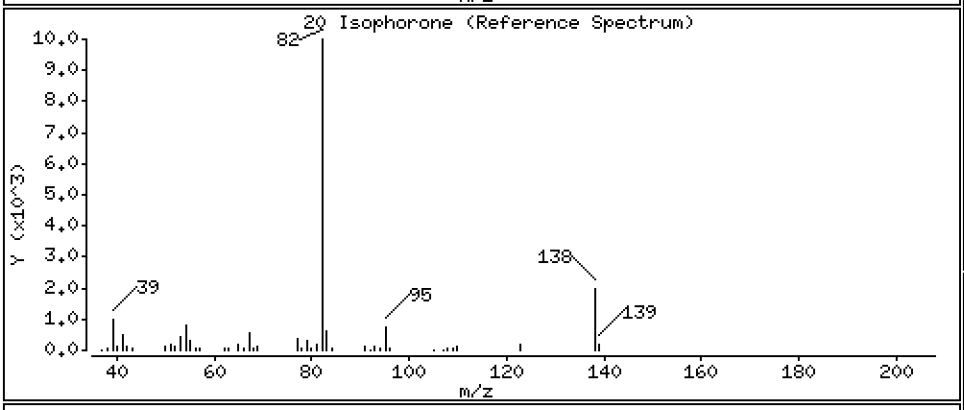
Concentration: 0.4844 ug/mL

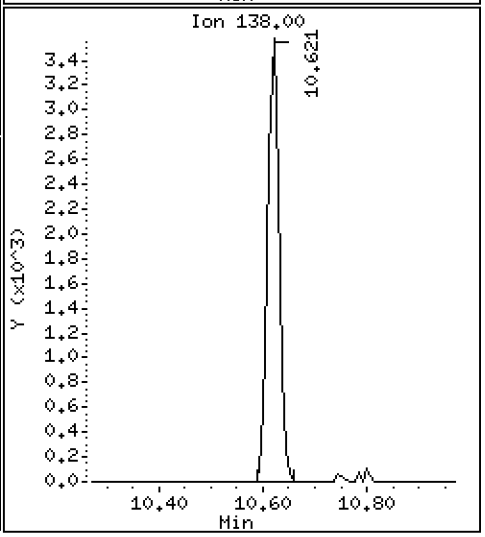


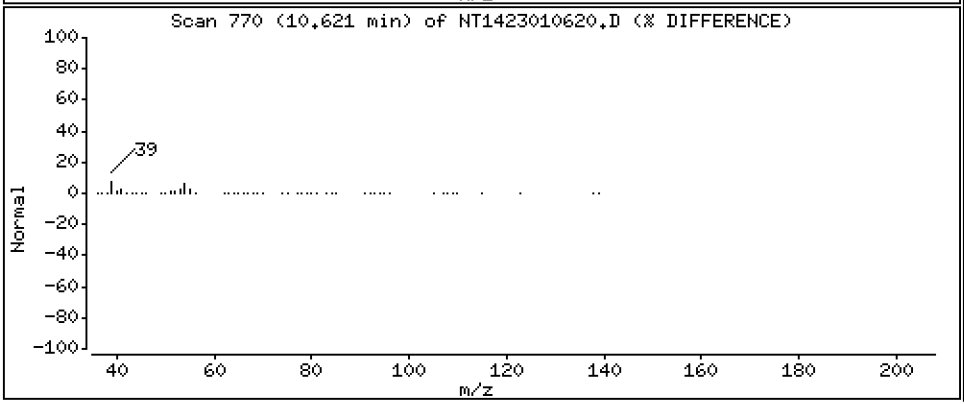












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

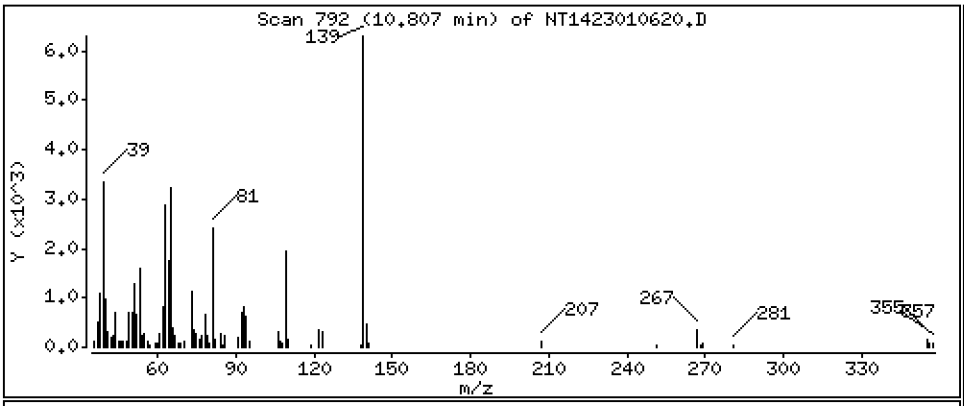
Operator: VTS

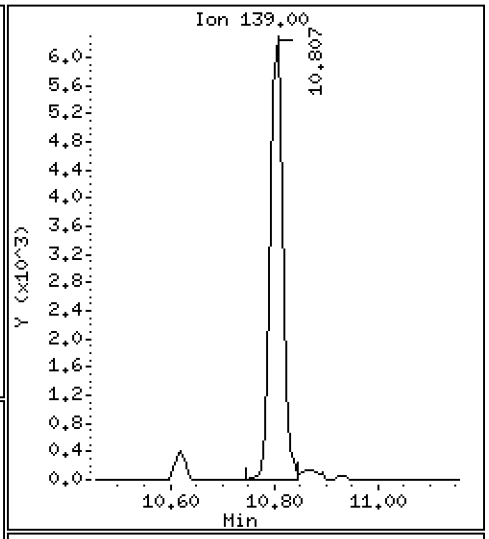
Column phase: ZB-5msi

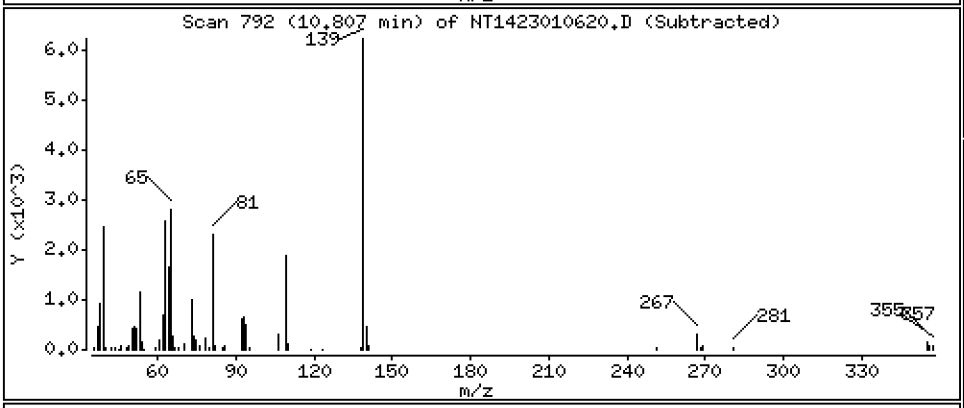
Column diameter: 0.25

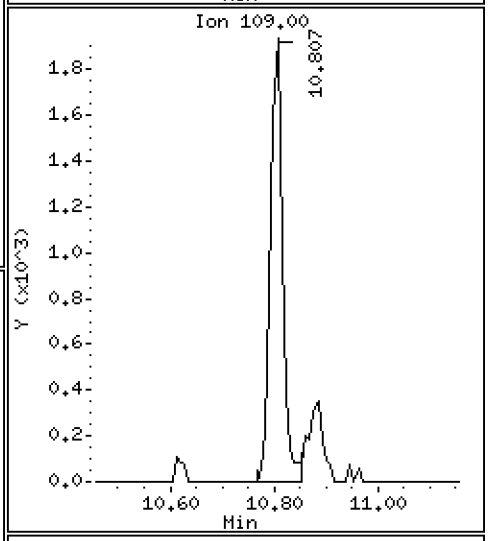
21 2-Nitrophenol

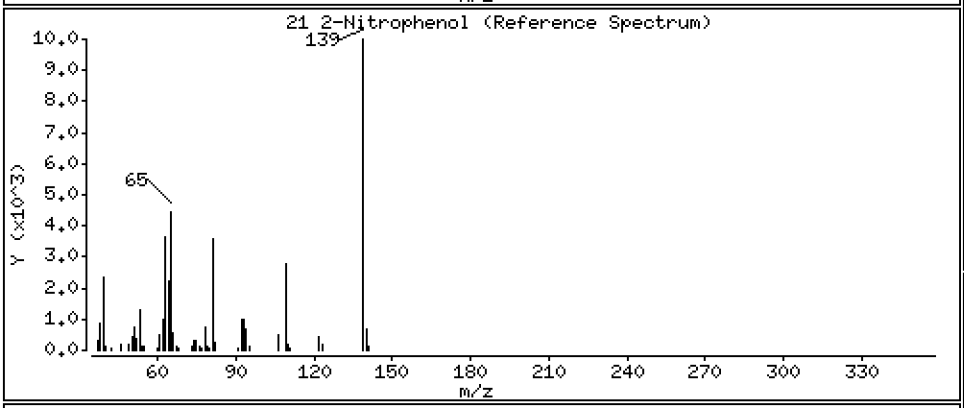
Concentration: 0.4302 ug/mL

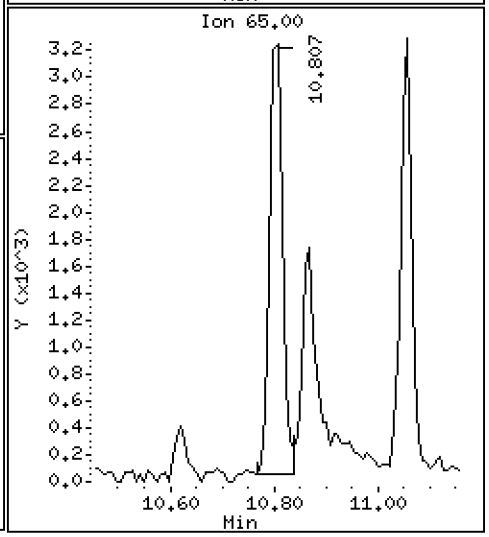


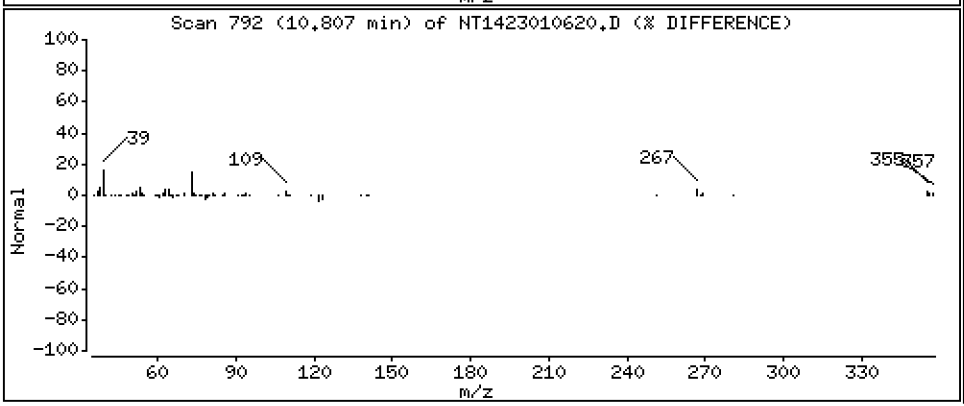












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

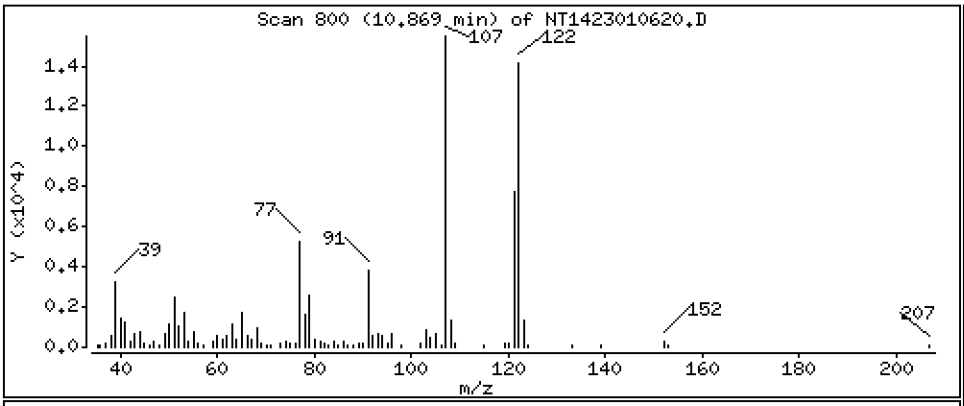
Operator: VTS

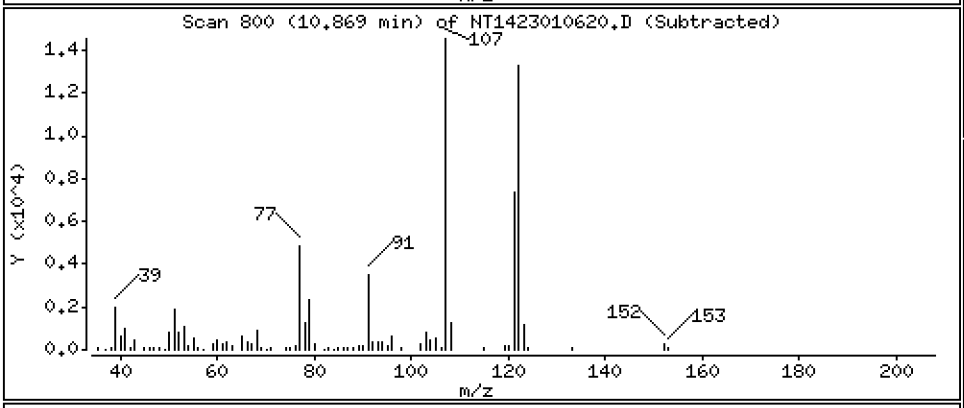
Column phase: ZB-5msi

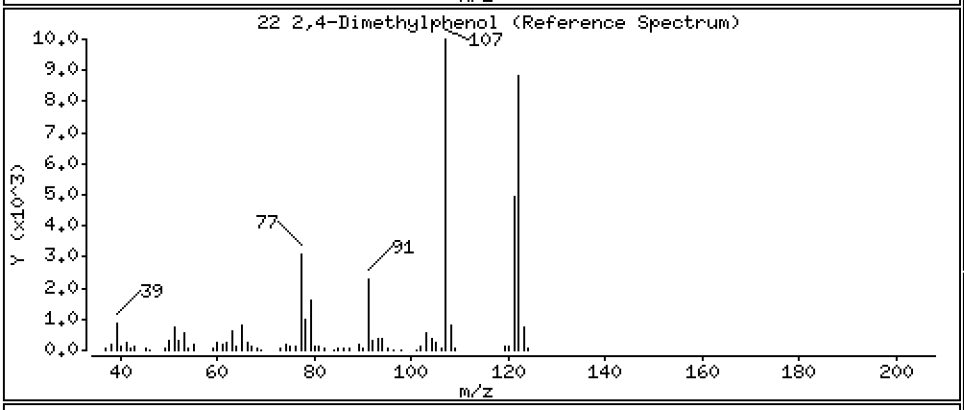
Column diameter: 0.25

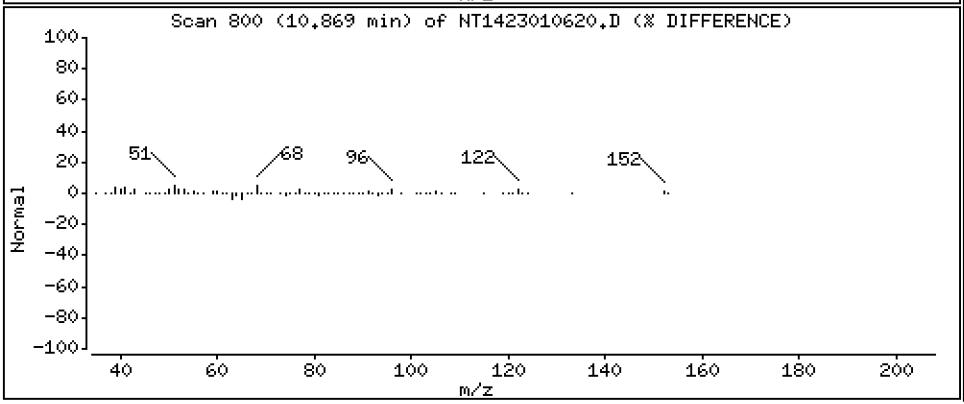
22 2,4-Dimethylphenol

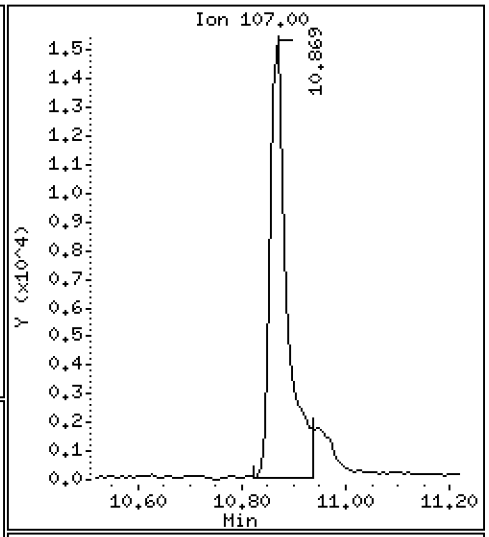
Concentration: 0.7152 ug/mL

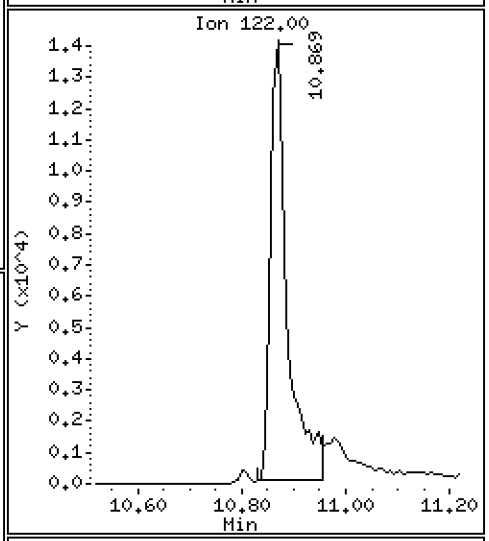


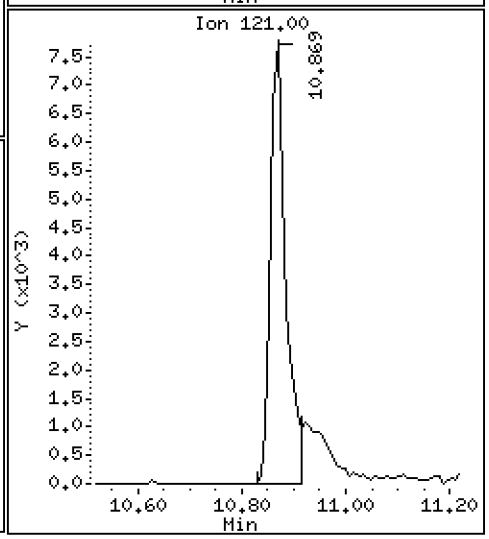












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

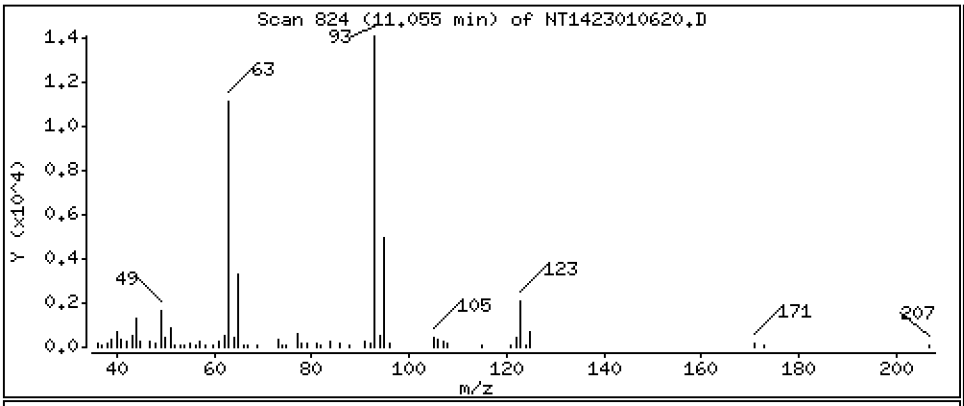
Operator: VTS

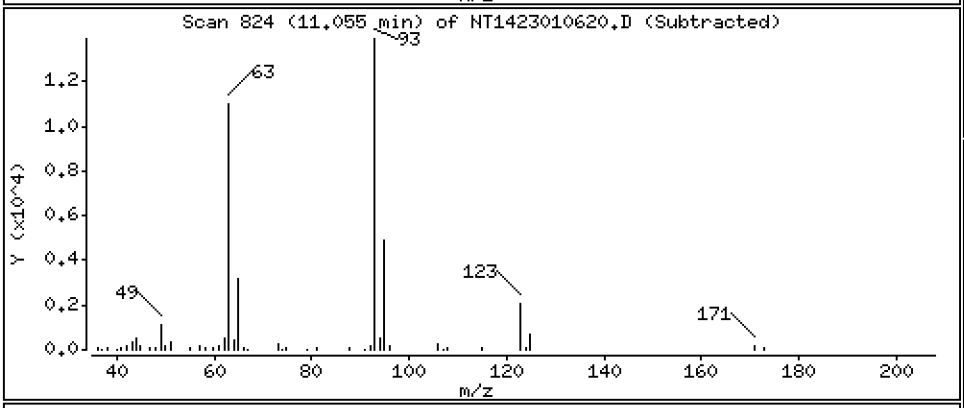
Column phase: ZB-5msi

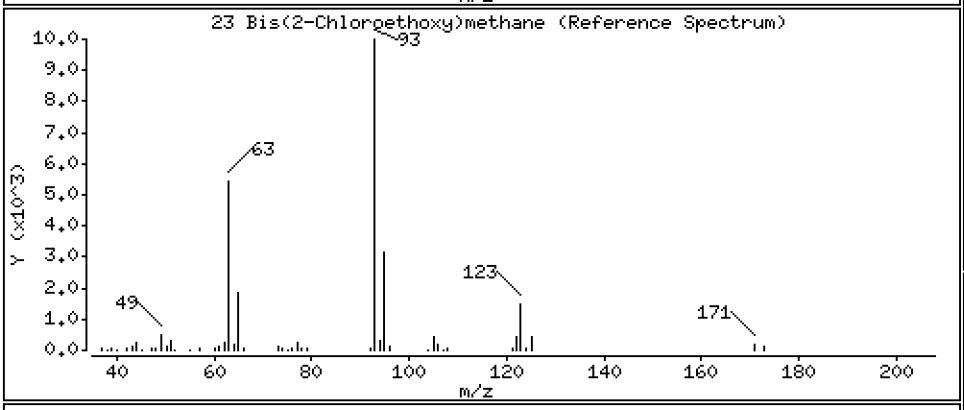
Column diameter: 0.25

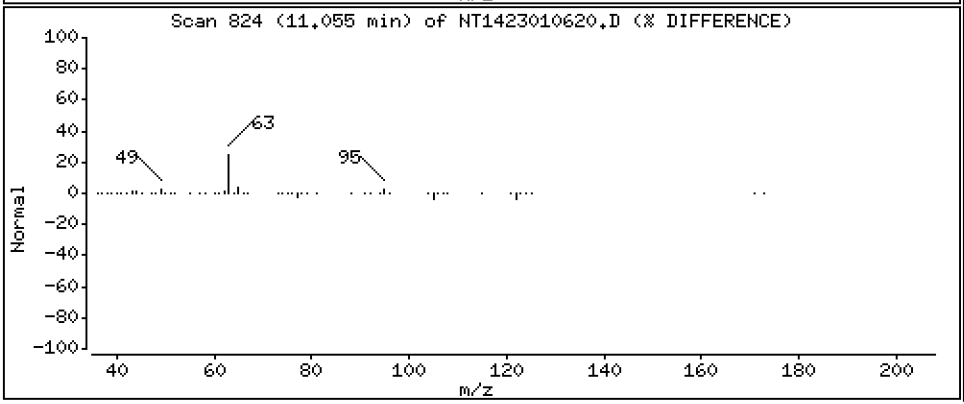
23 Bis(2-Chloroethoxy)methane

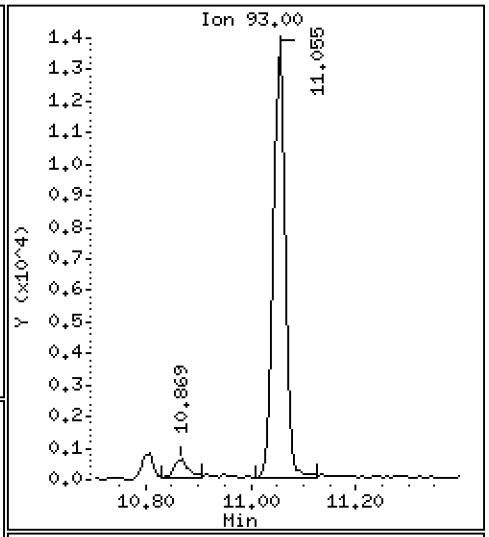
Concentration: 0.4626 ug/mL

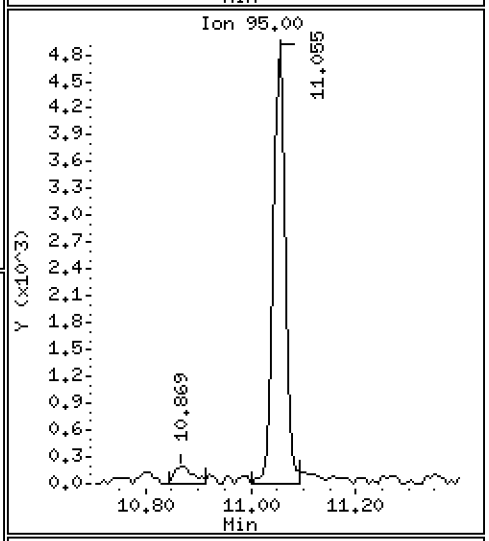


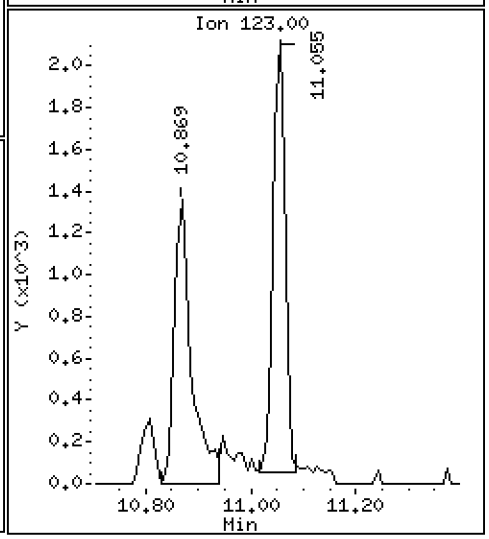












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

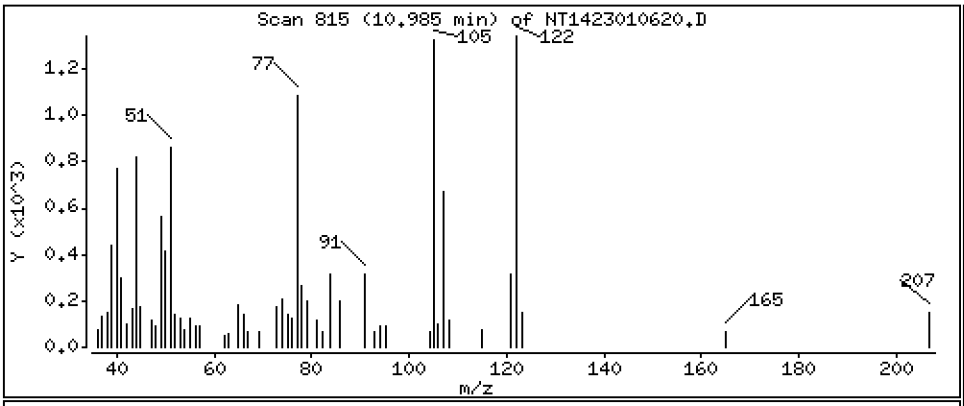
Operator: VTS

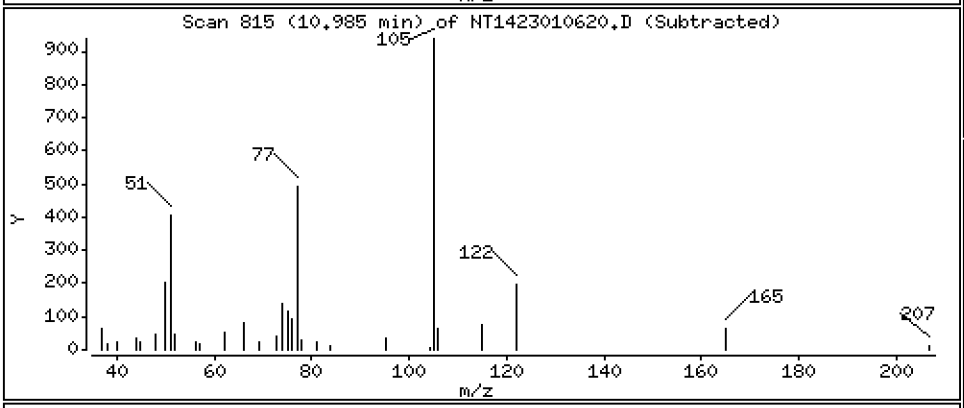
Column phase: ZB-5msi

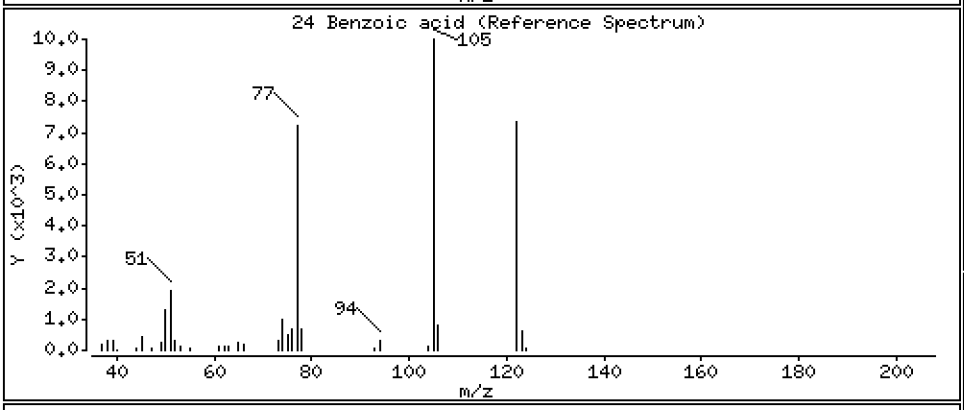
Column diameter: 0.25

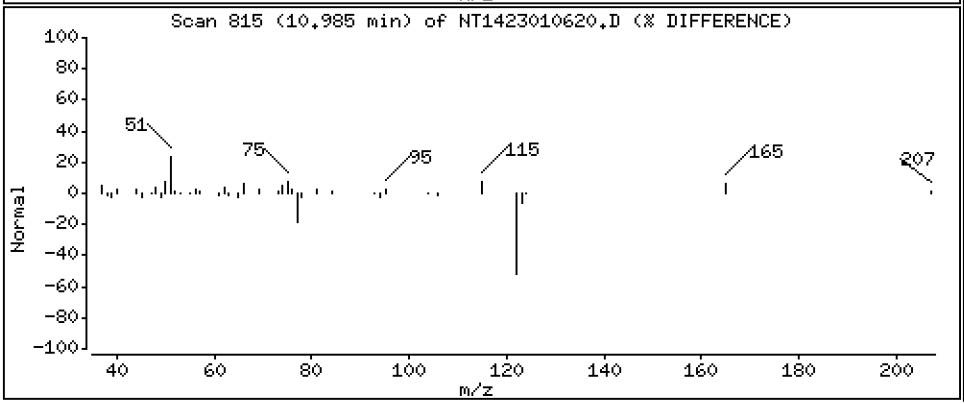
24 Benzoic acid

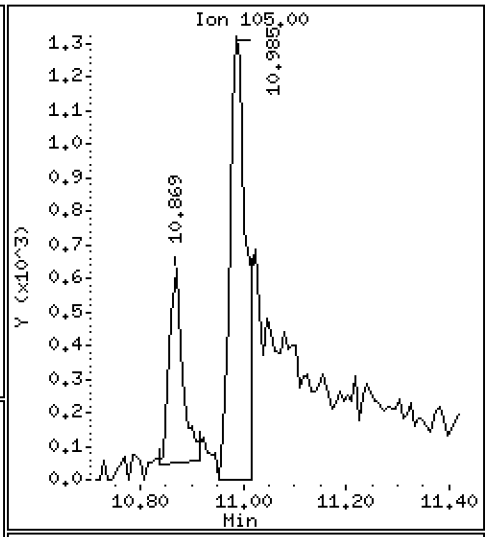
Concentration: 0.1039 ug/mL

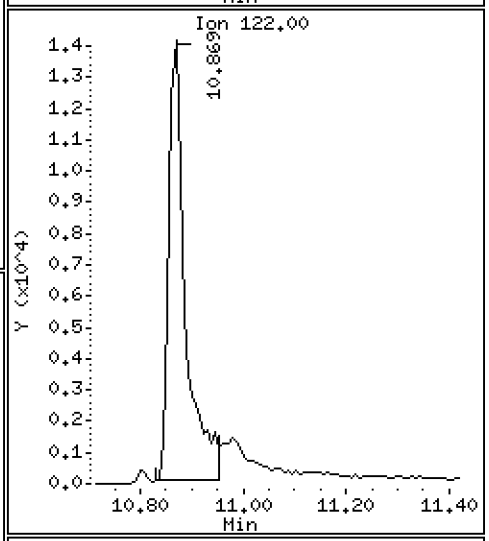


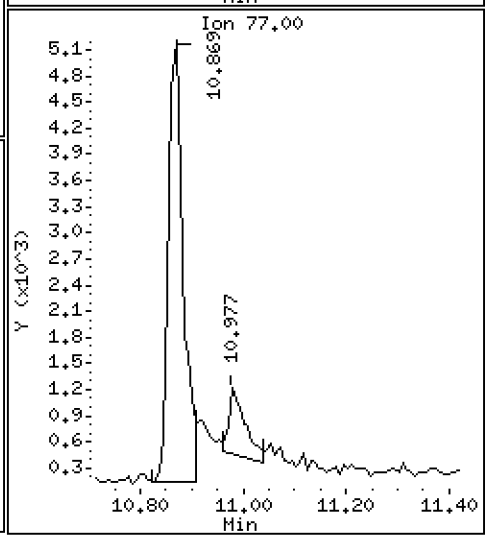












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

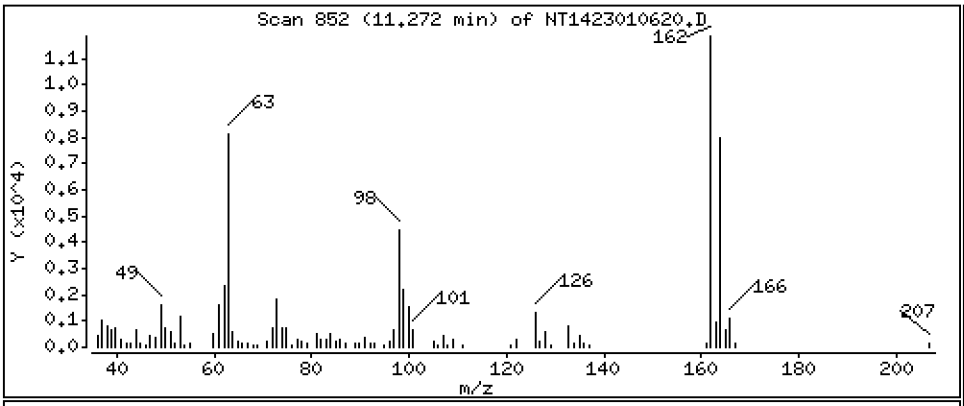
Operator: VTS

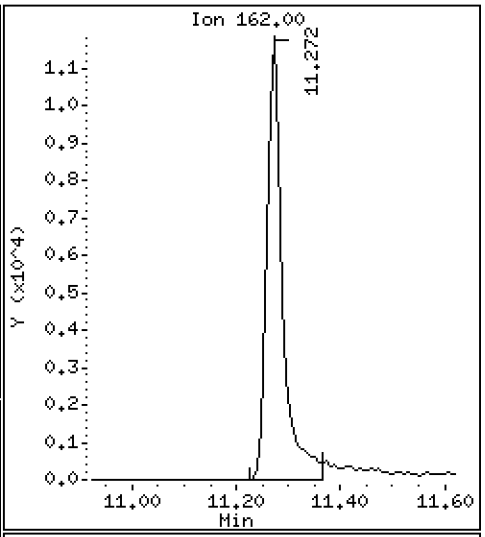
Column phase: ZB-5msi

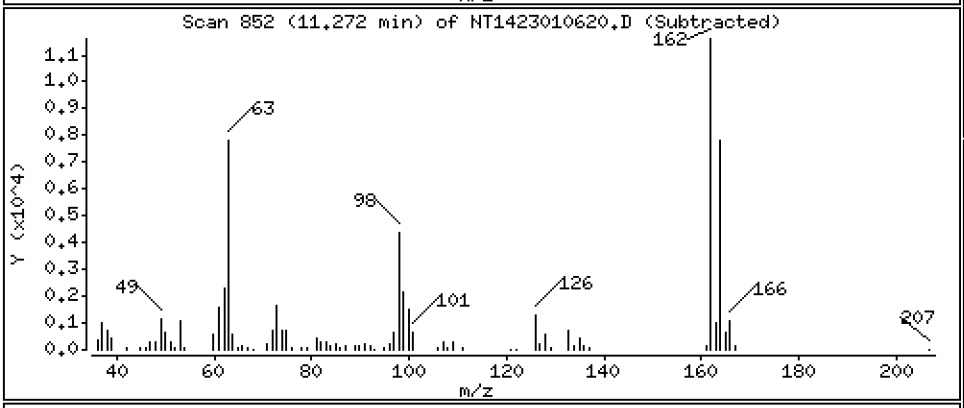
Column diameter: 0.25

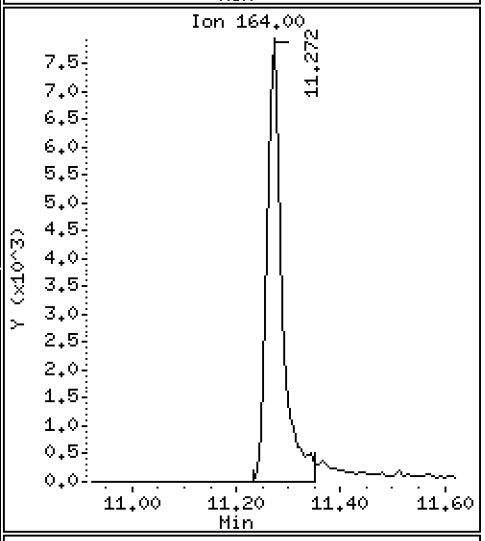
25 2,4-Dichlorophenol

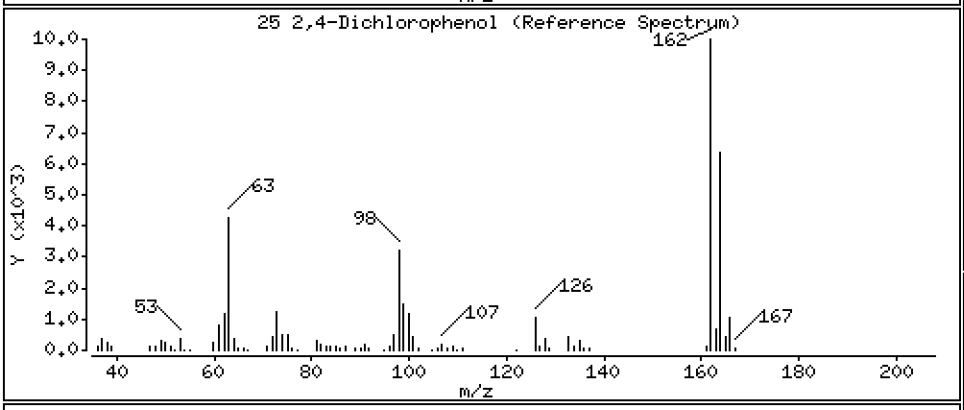
Concentration: 0.6201 ug/mL

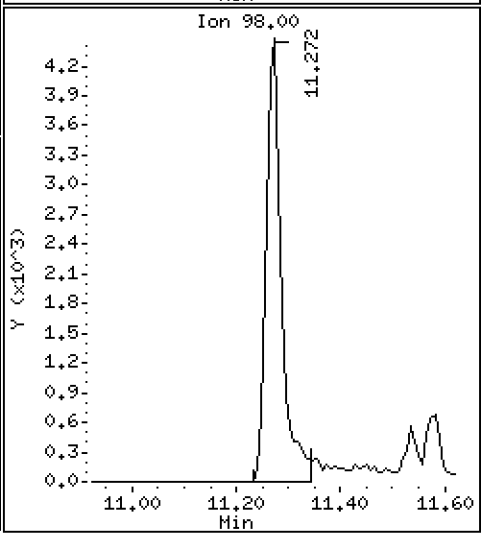


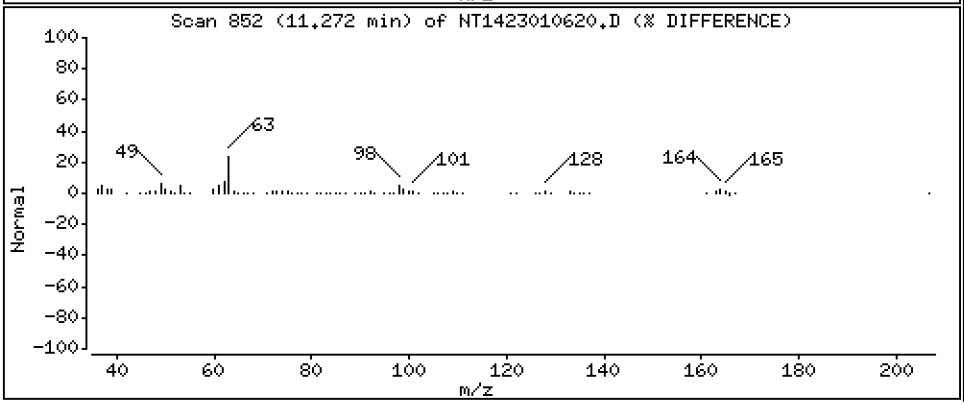












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

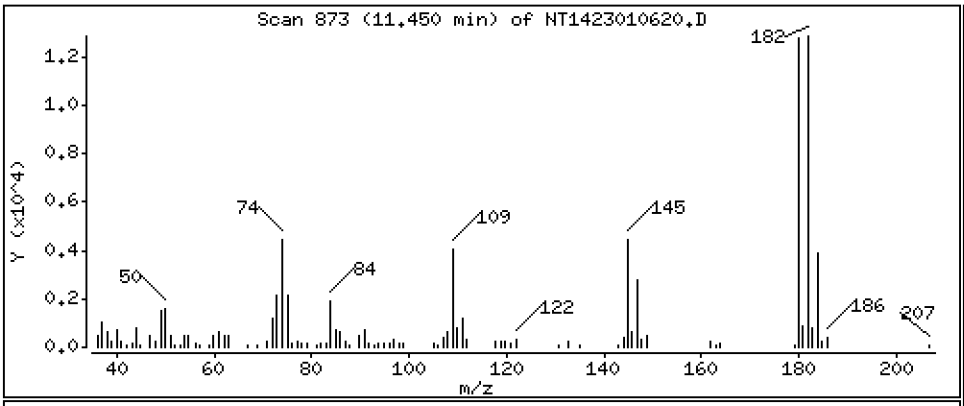
Operator: VTS

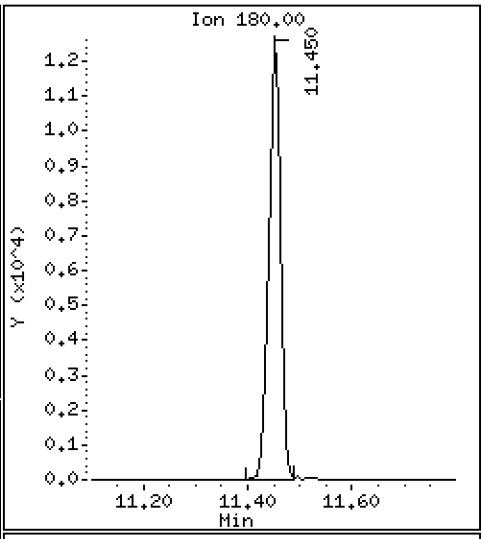
Column phase: ZB-5msi

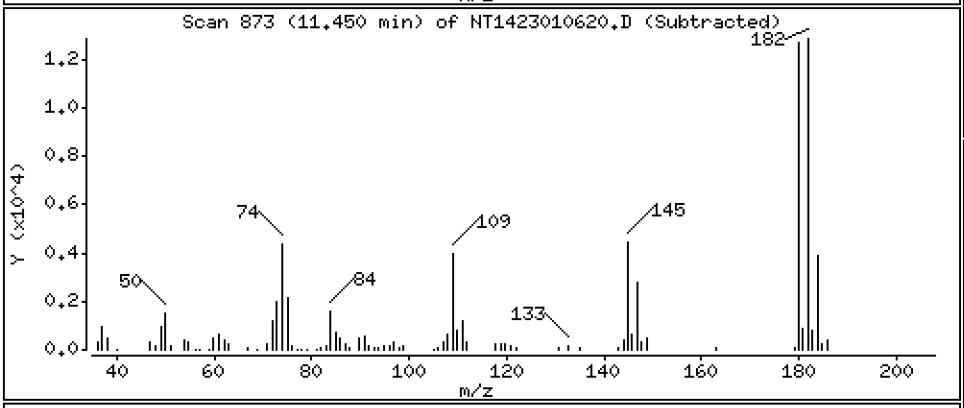
Column diameter: 0.25

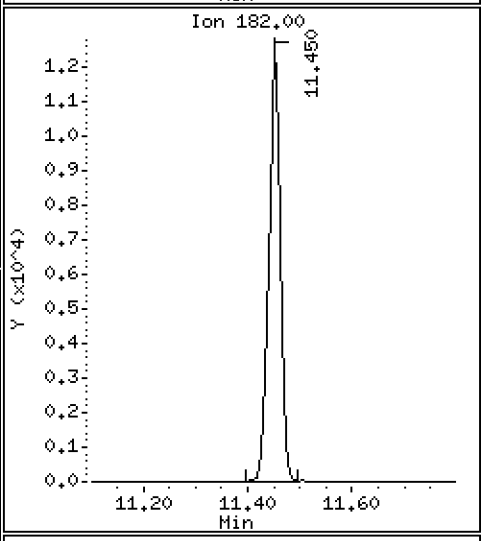
26 1,2,4-Trichlorobenzene

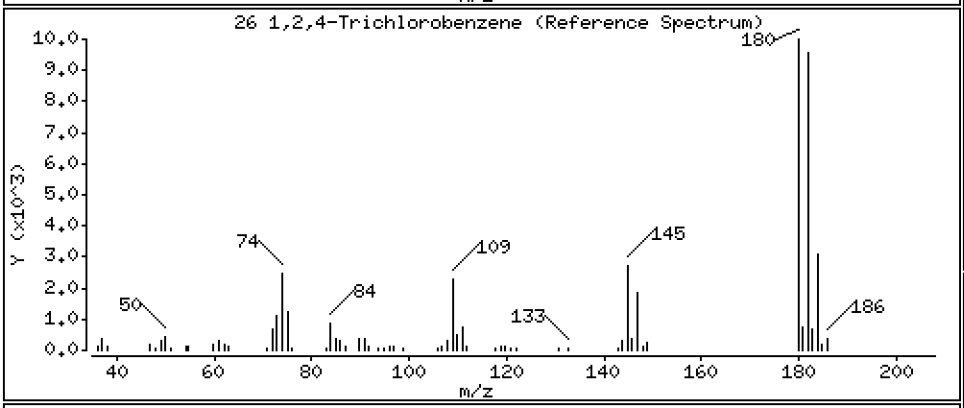
Concentration: 0.5482 ug/mL

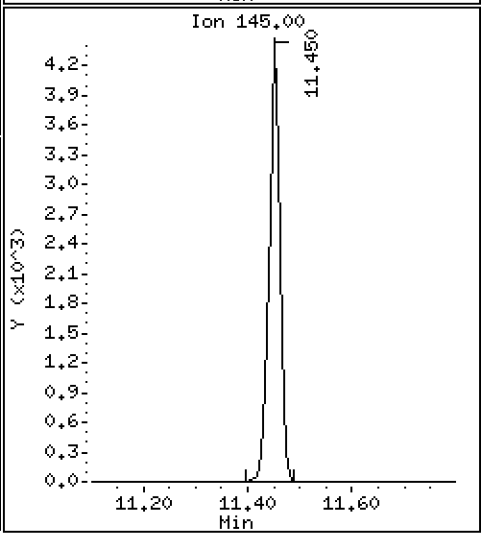


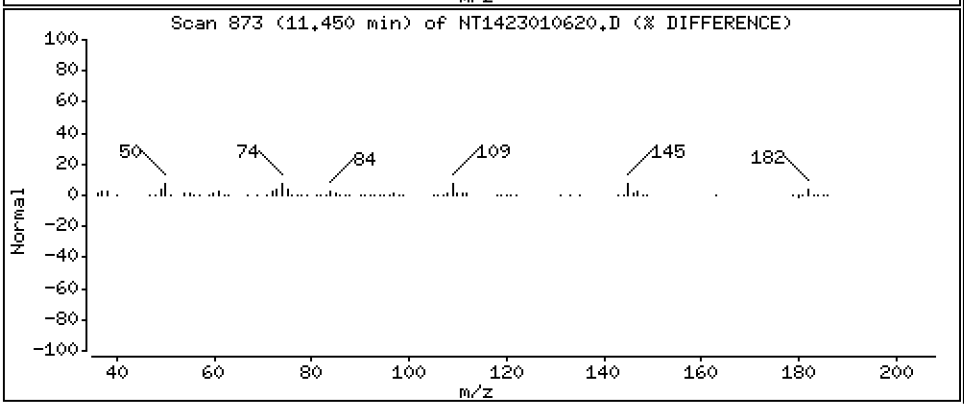












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

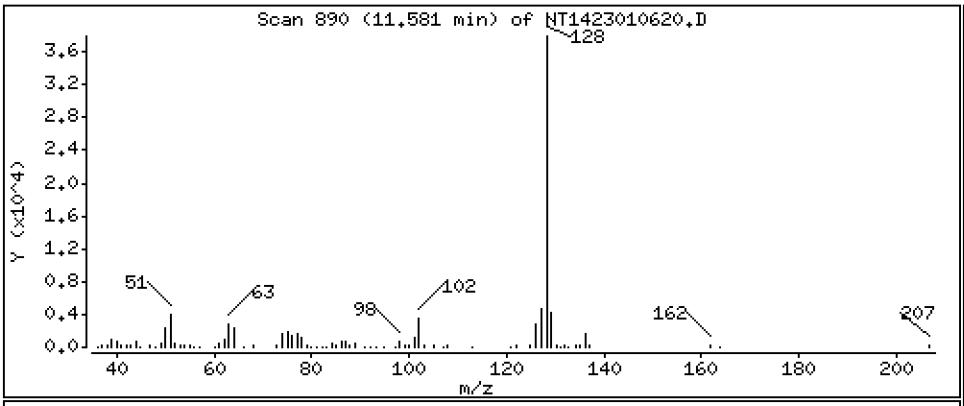
Operator: VTS

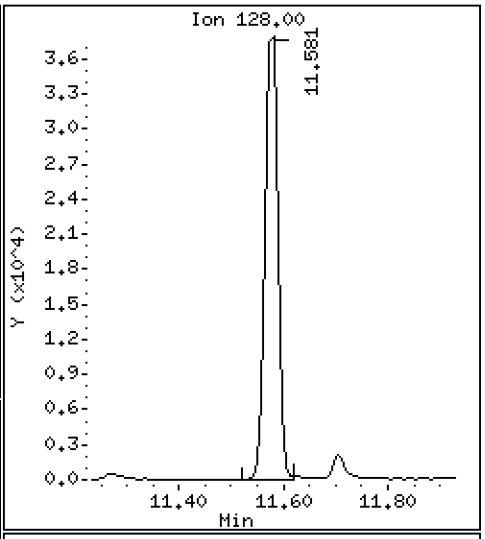
Column phase: ZB-5msi

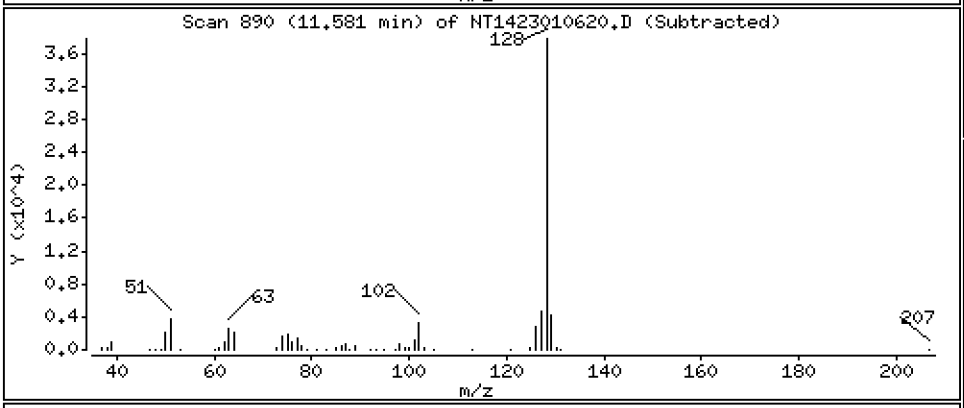
Column diameter: 0.25

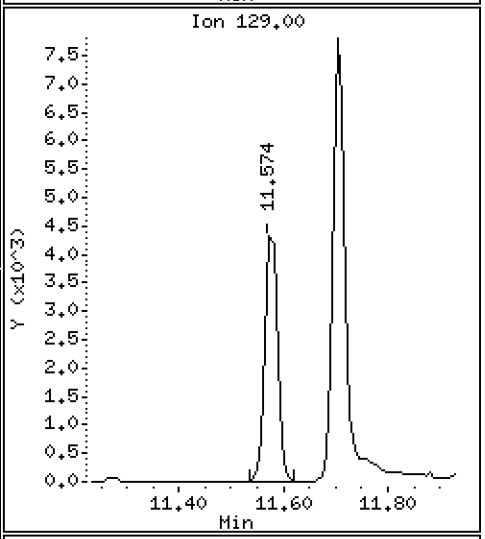
28 Naphthalene

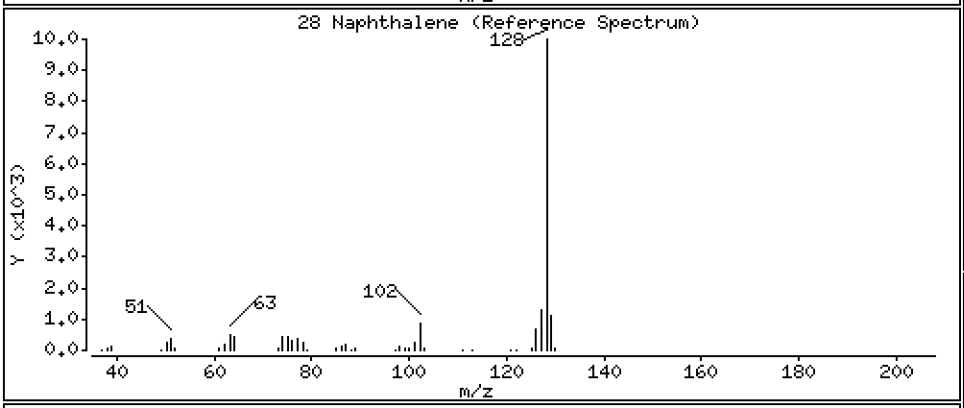
Concentration: 0.4696 ug/mL

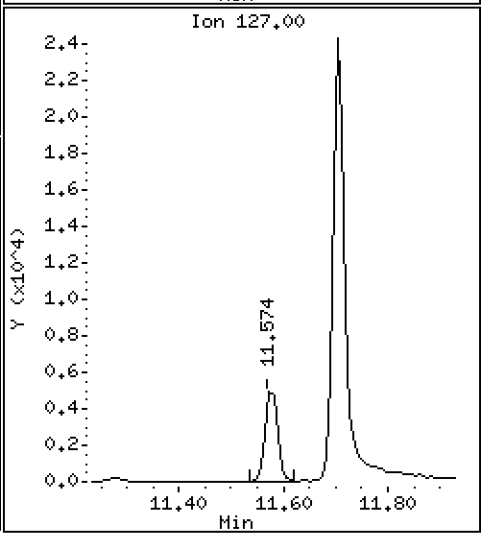


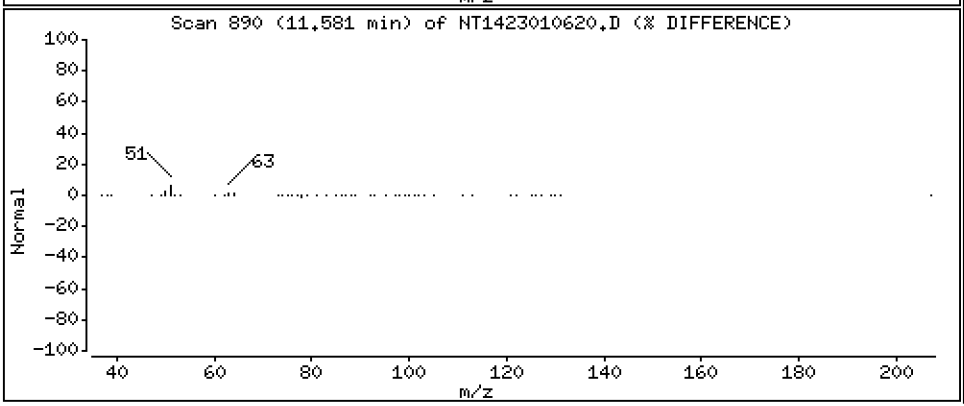












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

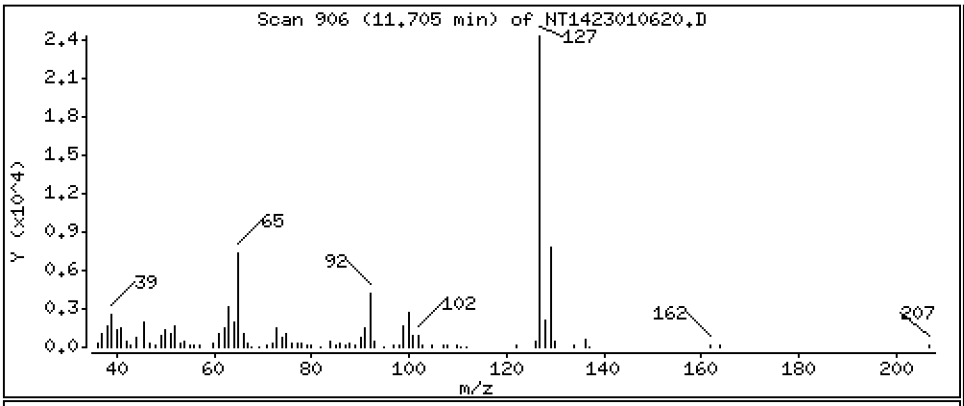
Operator: VTS

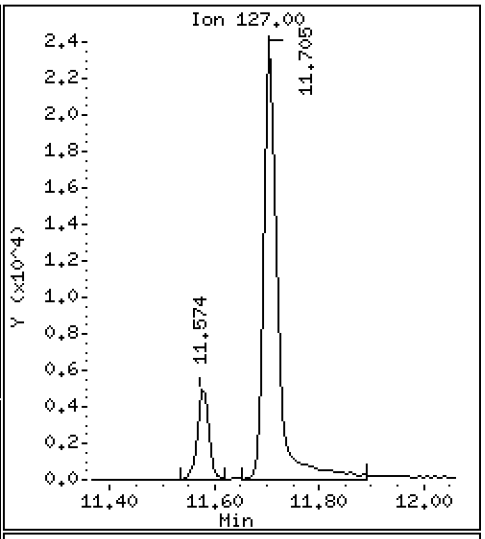
Column phase: ZB-5msi

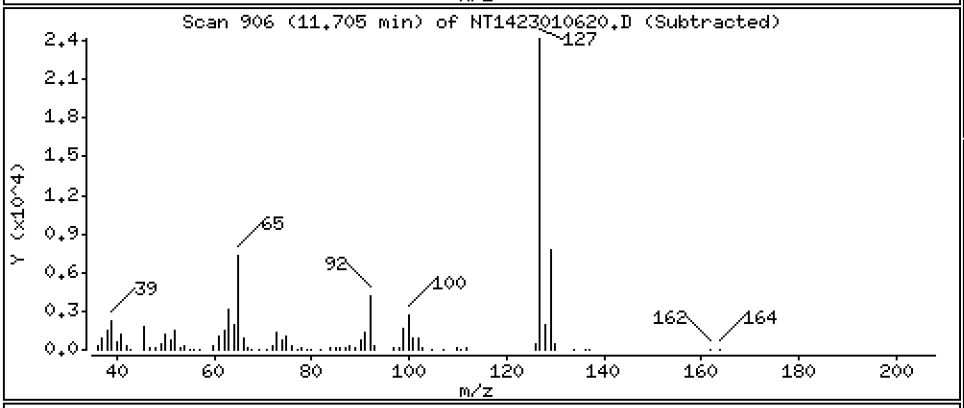
Column diameter: 0.25

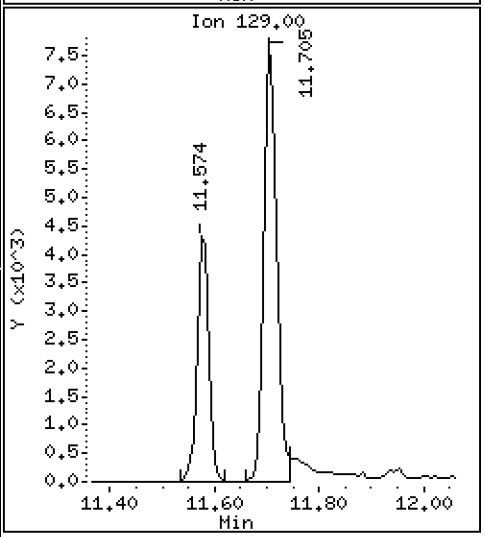
29 4-Chloroaniline

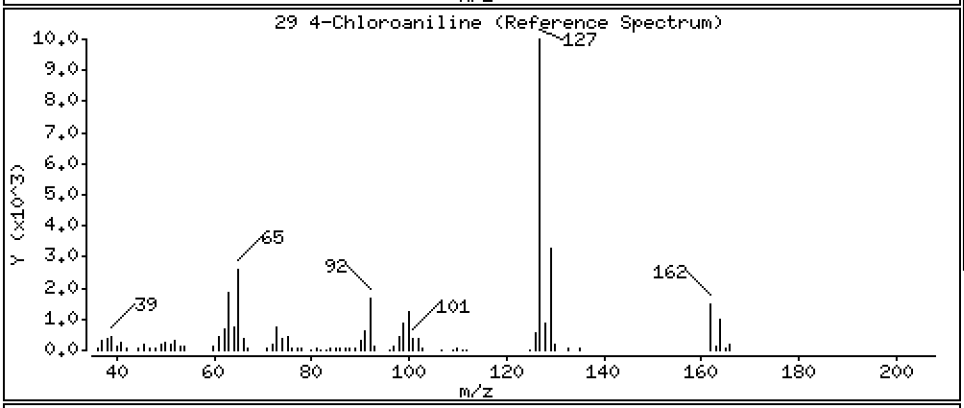
Concentration: 0.8098 ug/mL

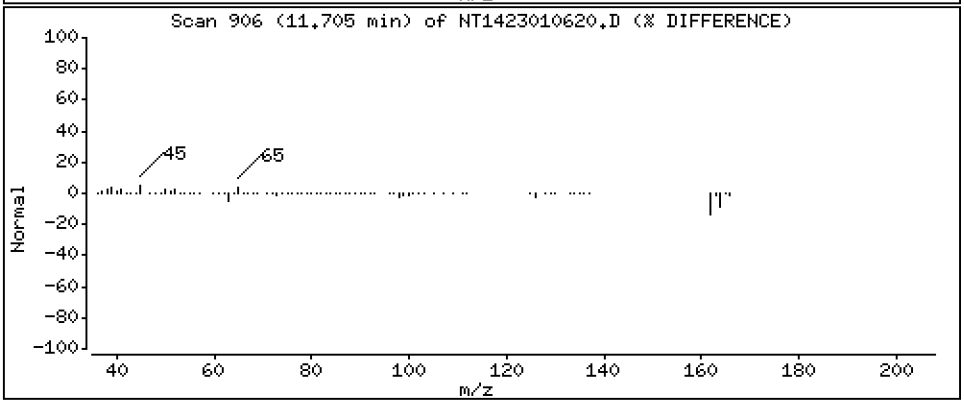












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

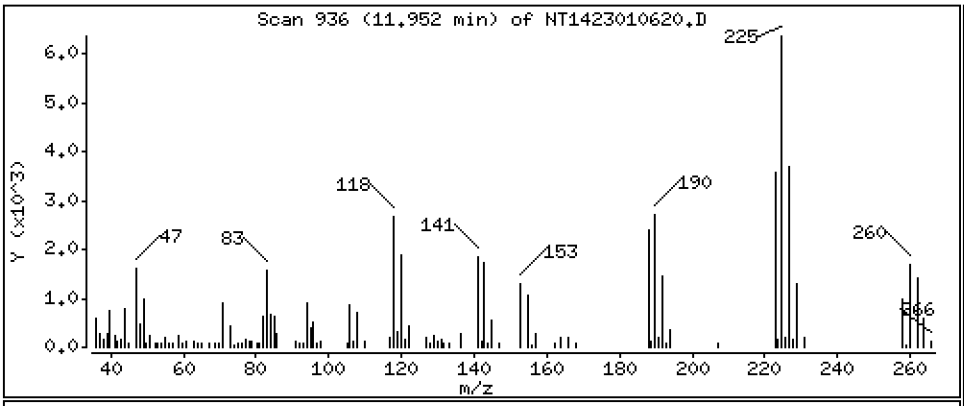
Operator: VTS

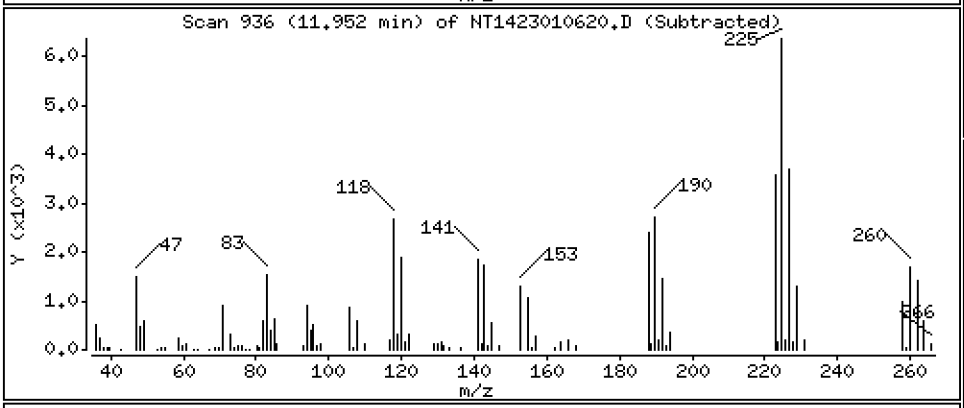
Column phase: ZB-5msi

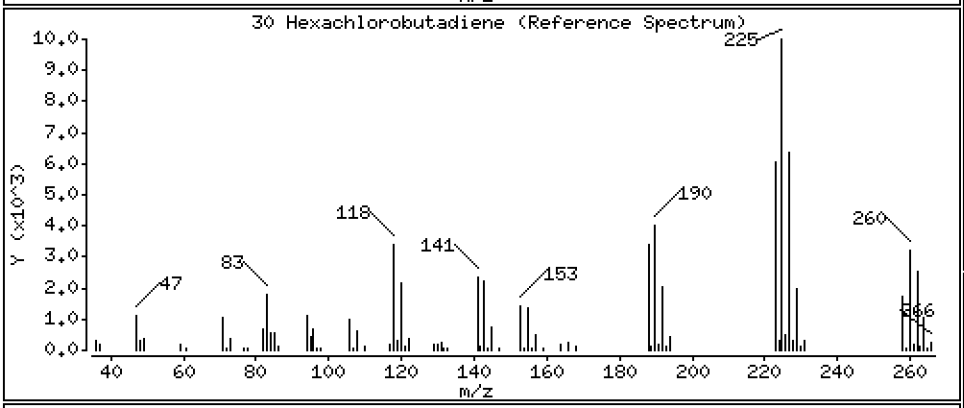
Column diameter: 0.25

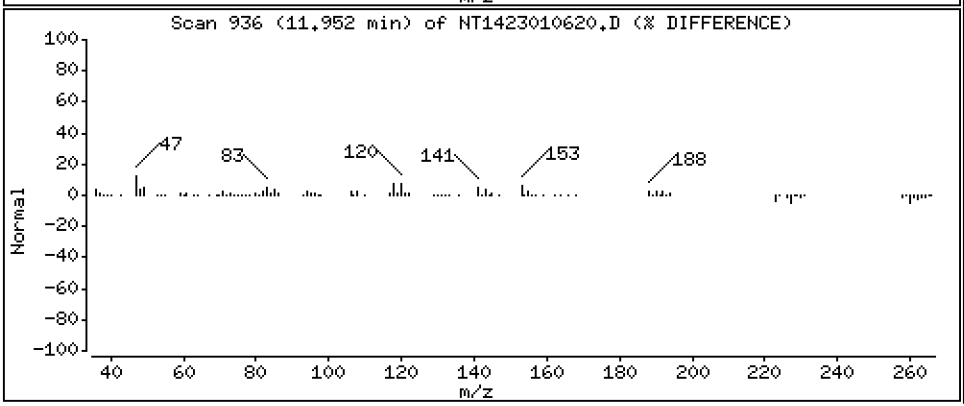
30 Hexachlorobutadiene

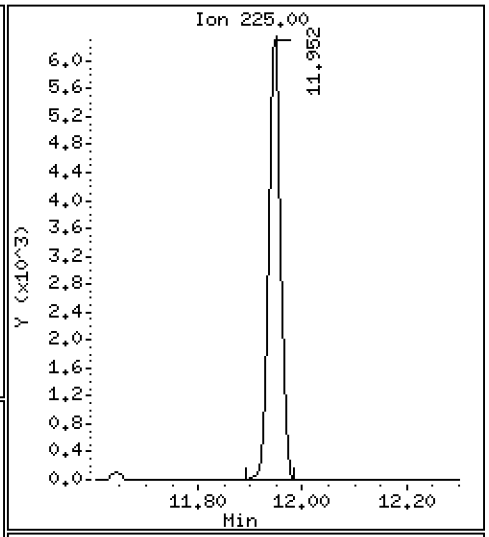
Concentration: 0.5745 ug/mL

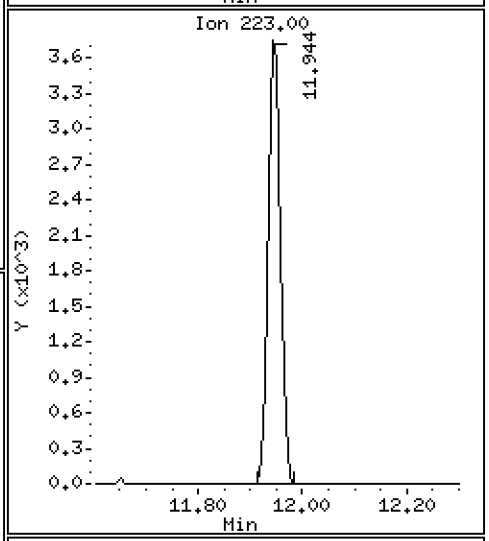


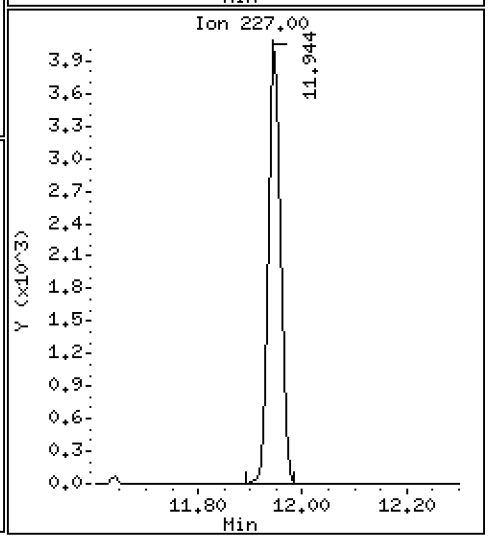












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

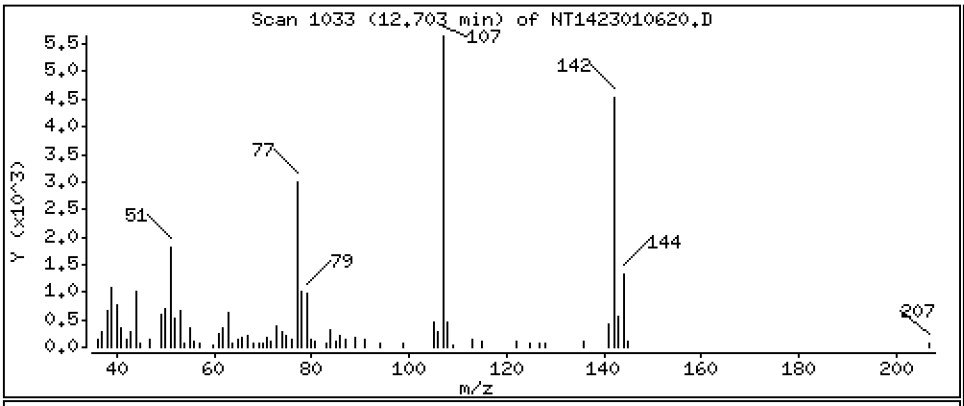
Operator: VTS

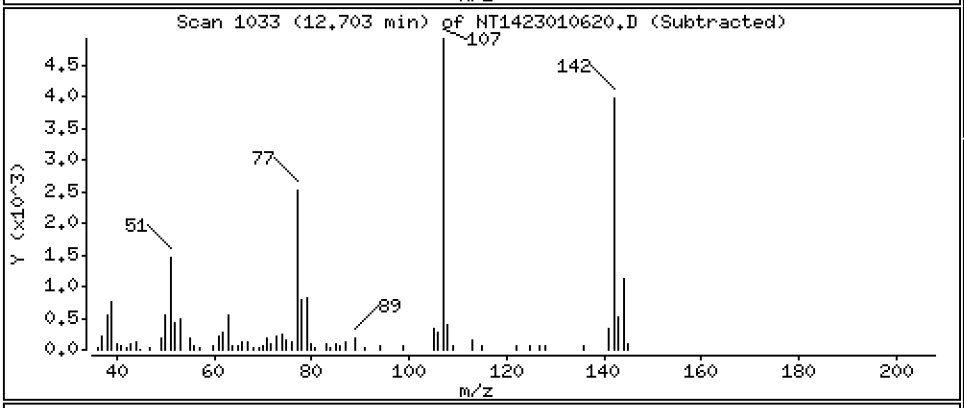
Column phase: ZB-5msi

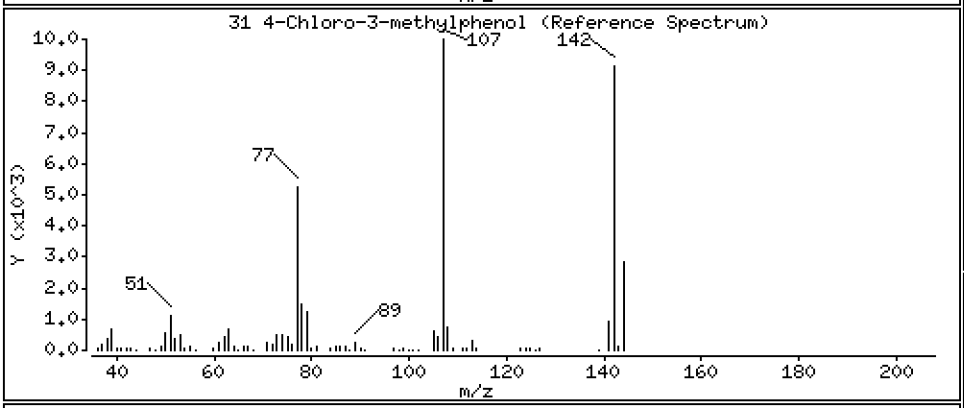
Column diameter: 0.25

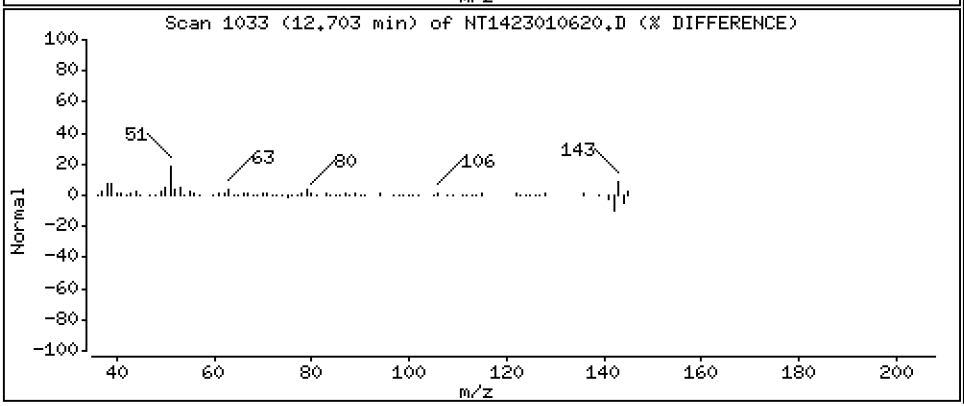
31 4-Chloro-3-methylphenol

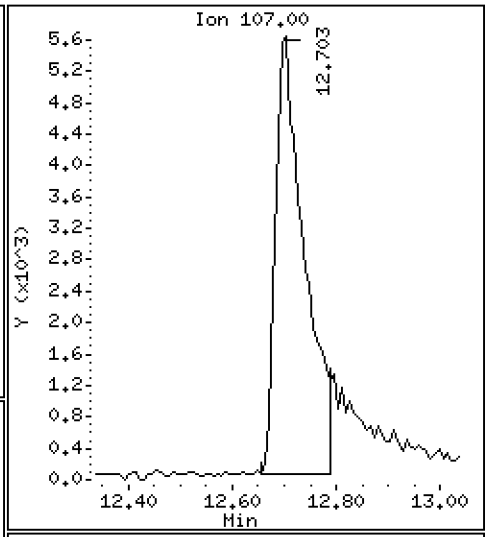
Concentration: 0.5836 ug/mL

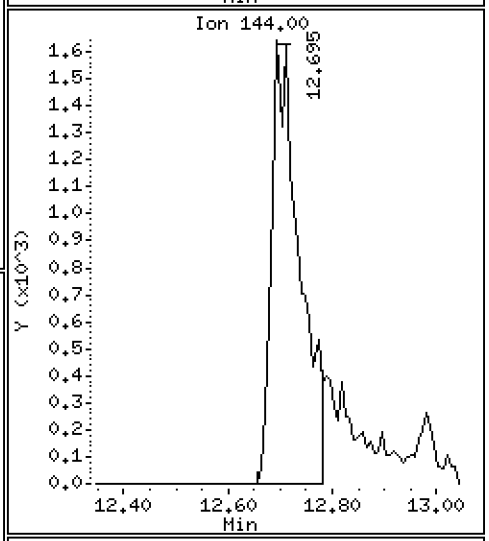


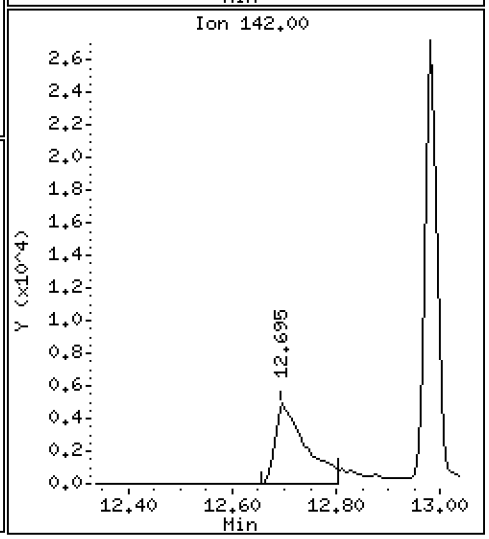












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

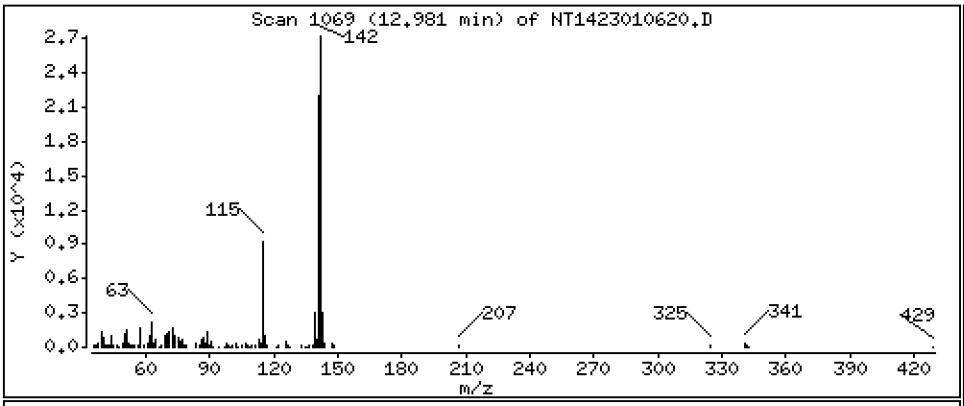
Operator: VTS

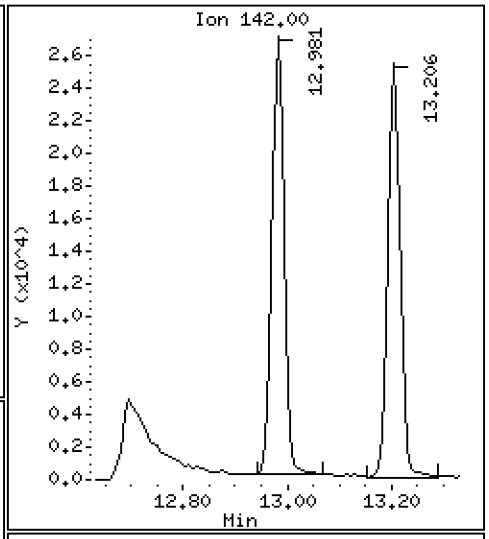
Column phase: ZB-5msi

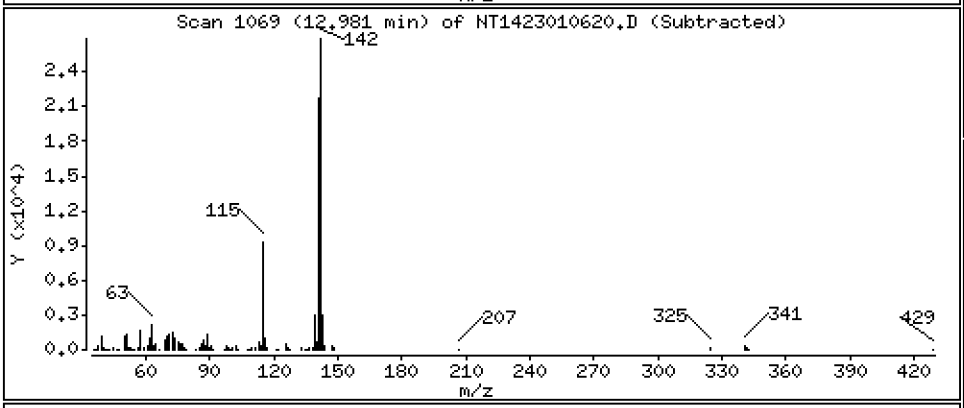
Column diameter: 0.25

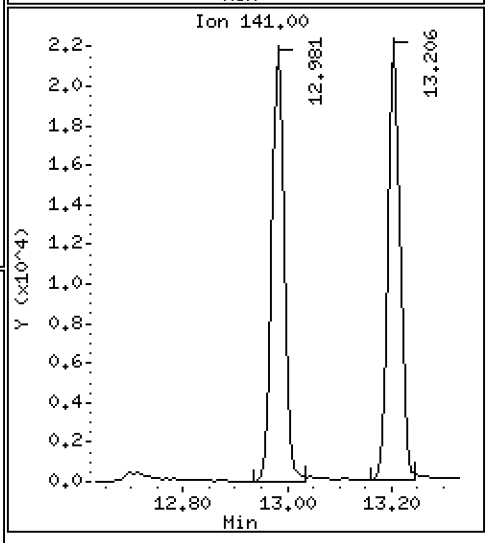
32 2-Methylnaphthalene

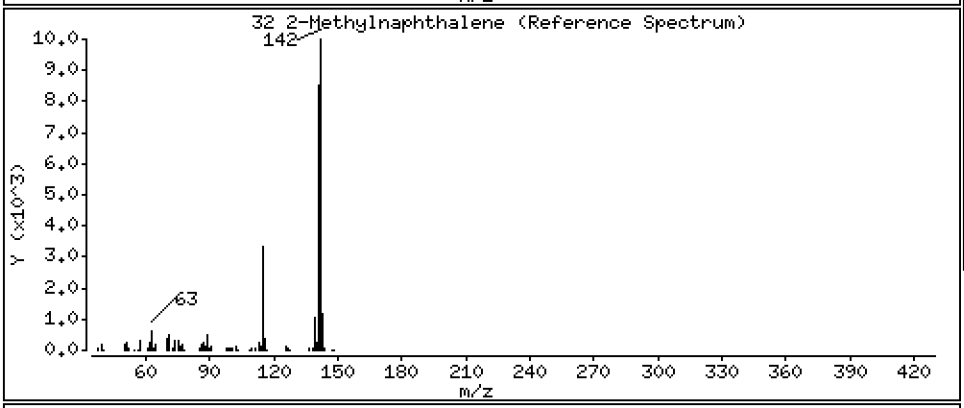
Concentration: 0.4307 ug/mL

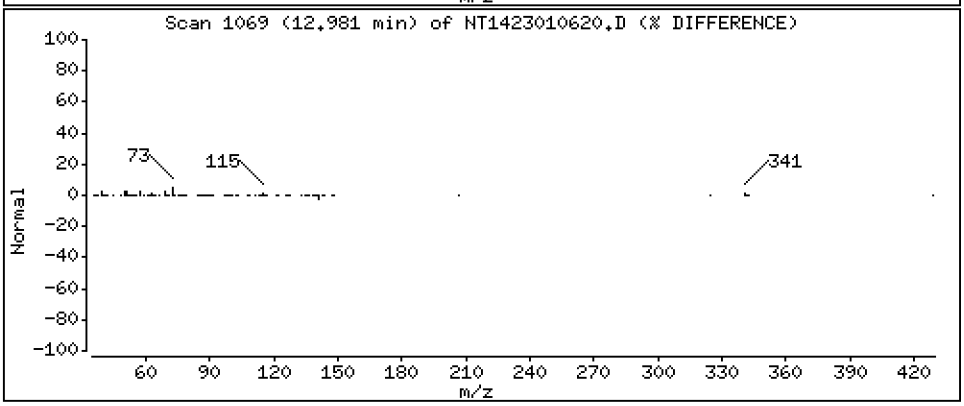












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

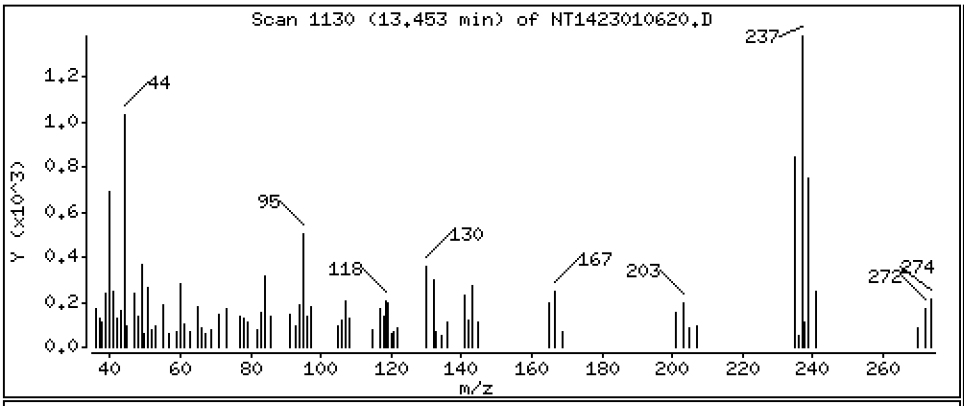
Operator: VTS

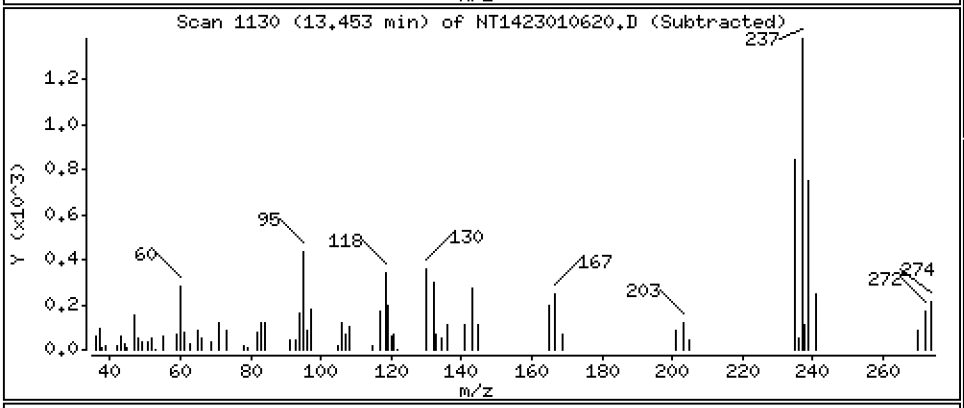
Column phase: ZB-5msi

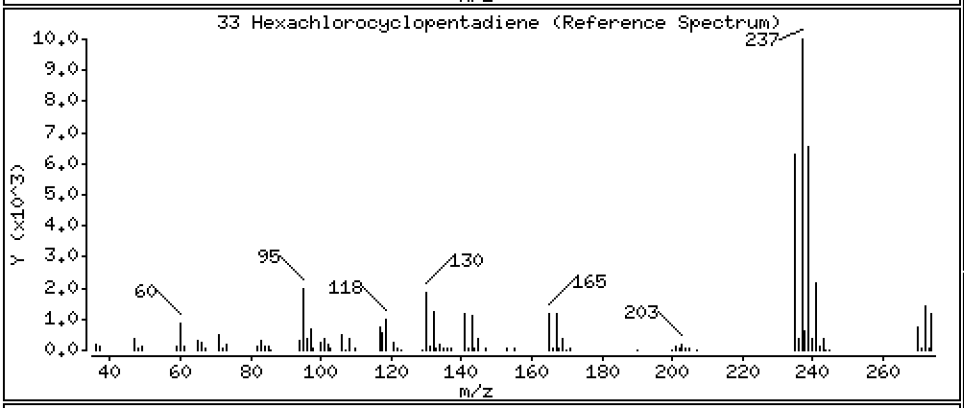
Column diameter: 0.25

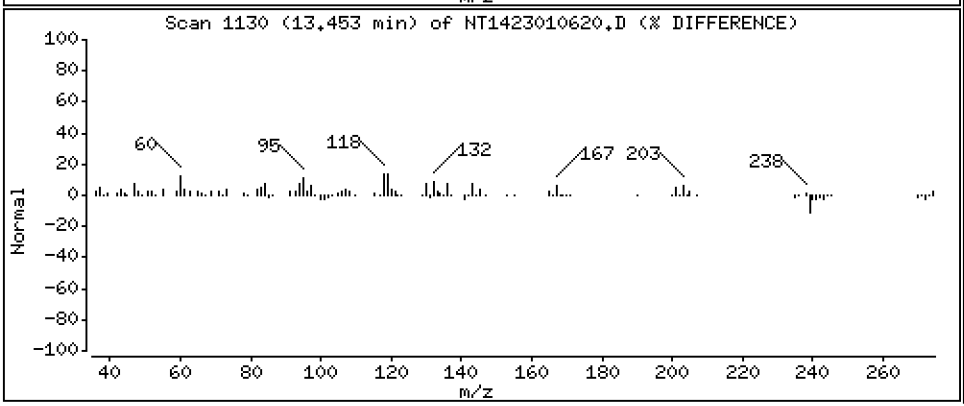
33 Hexachlorocyclopentadiene

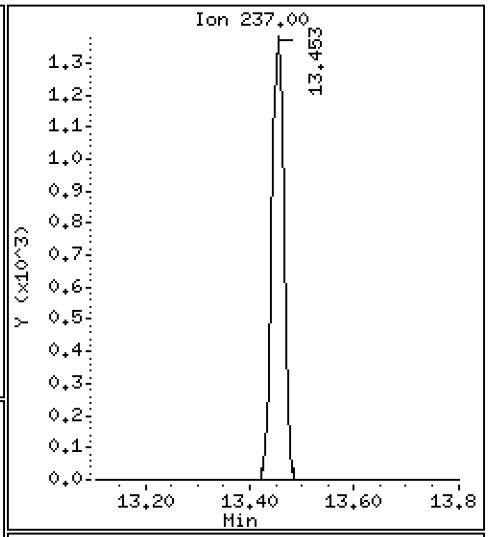
Concentration: 0.1043 ug/mL

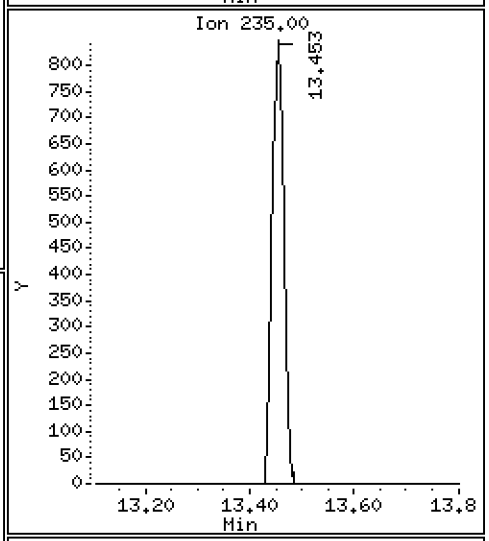


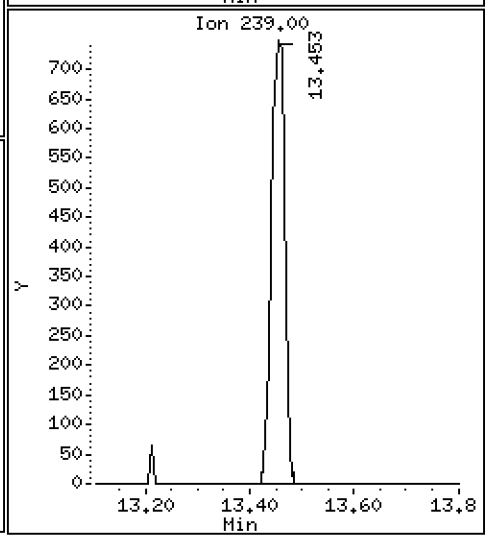












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

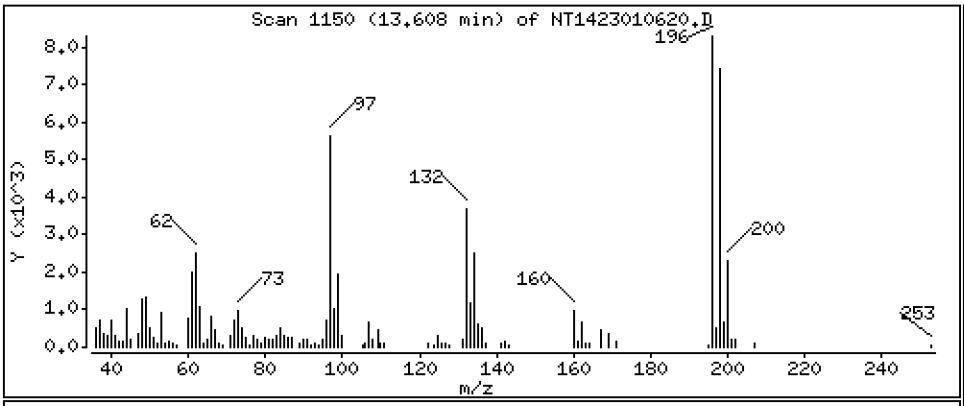
Operator: VTS

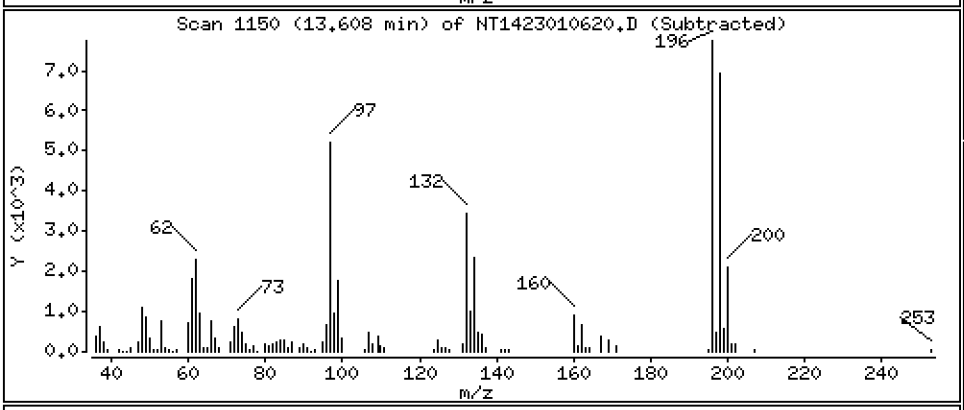
Column phase: ZB-5msi

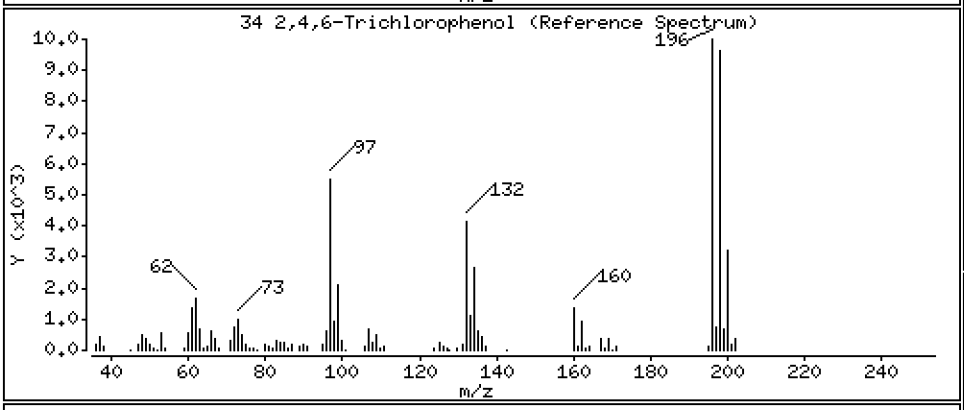
Column diameter: 0.25

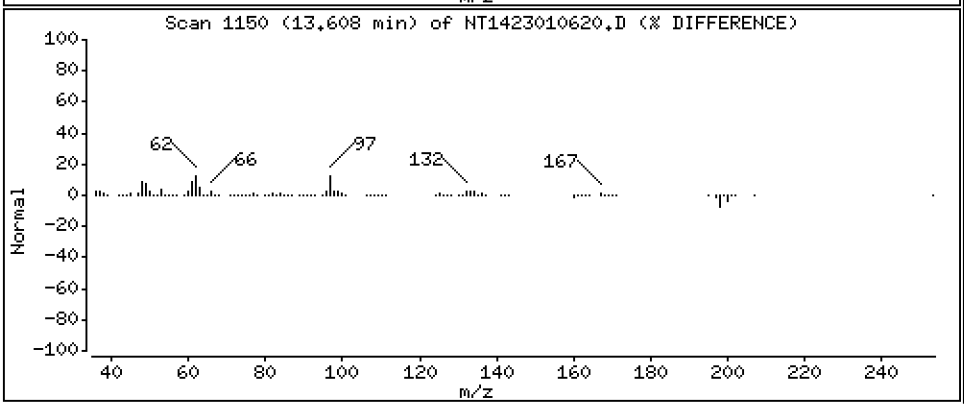
34 2,4,6-Trichlorophenol

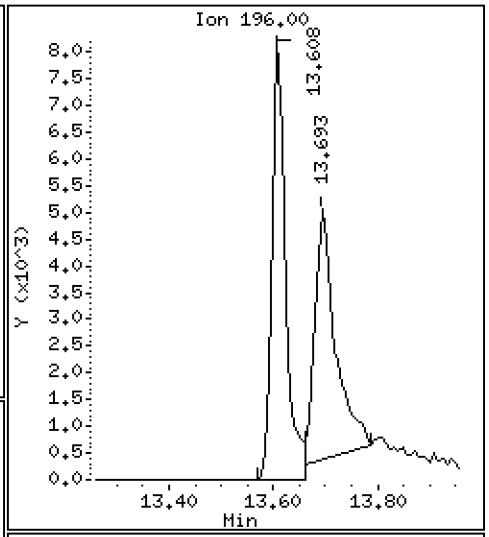
Concentration: 0.6356 ug/mL

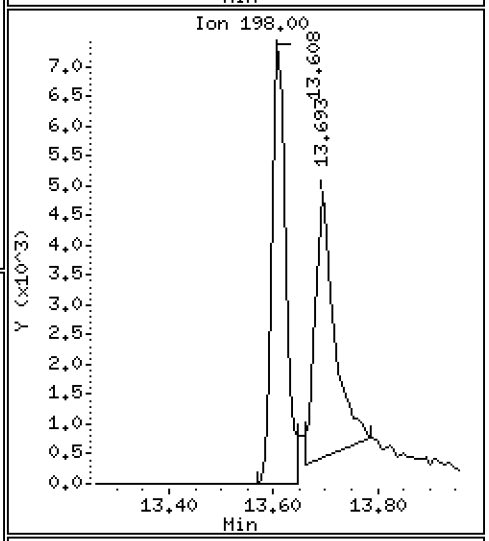


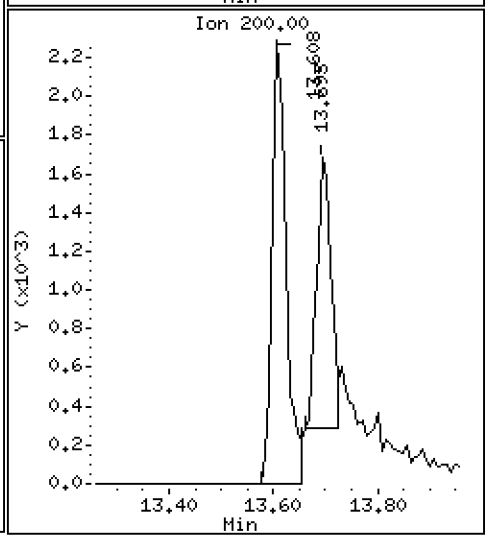












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

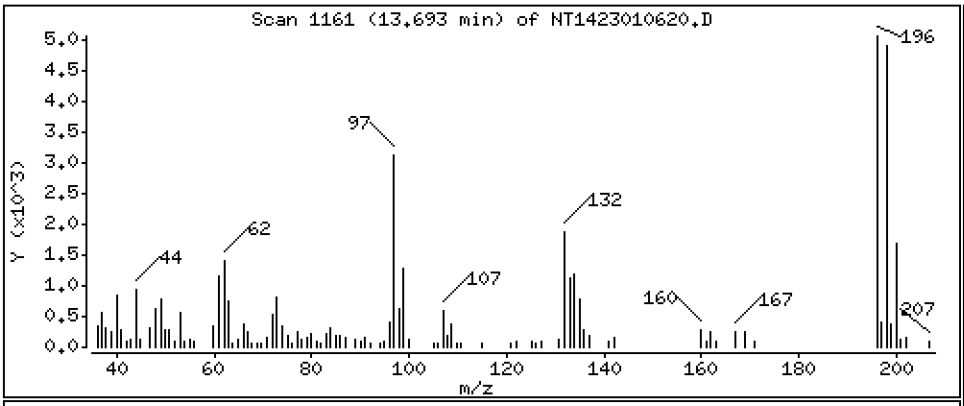
Operator: VTS

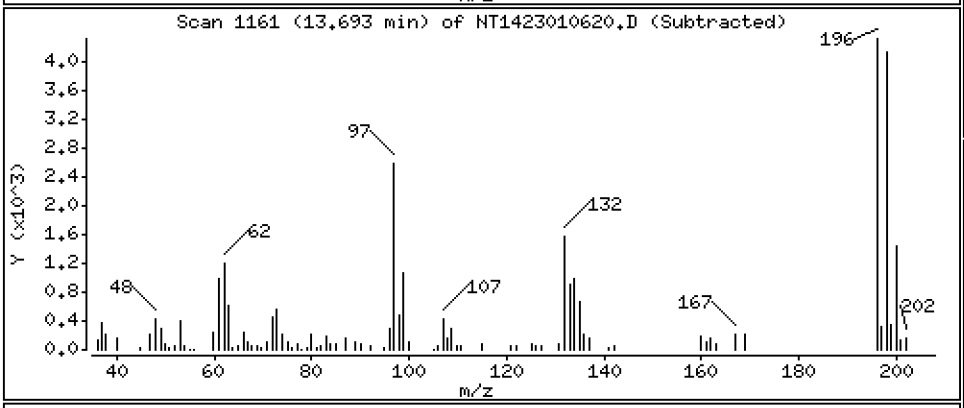
Column phase: ZB-5msi

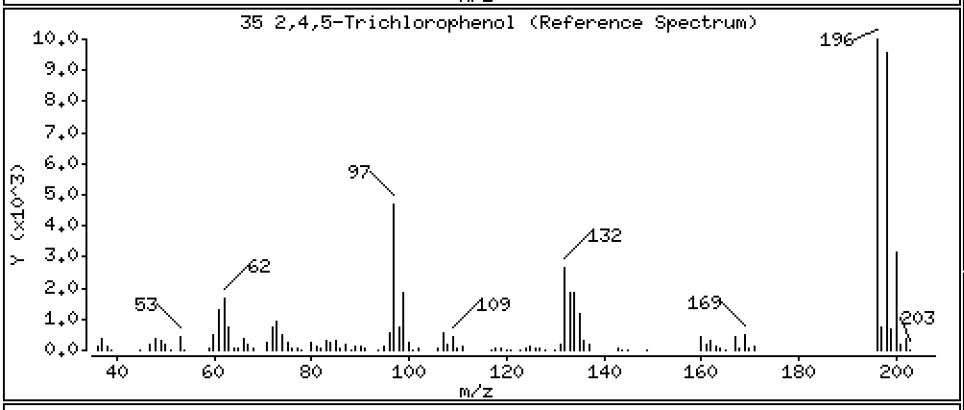
Column diameter: 0.25

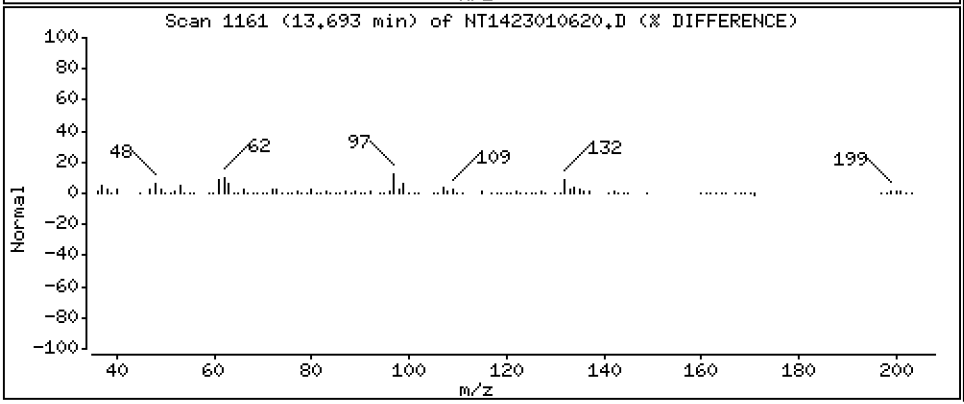
35 2,4,5-Trichlorophenol

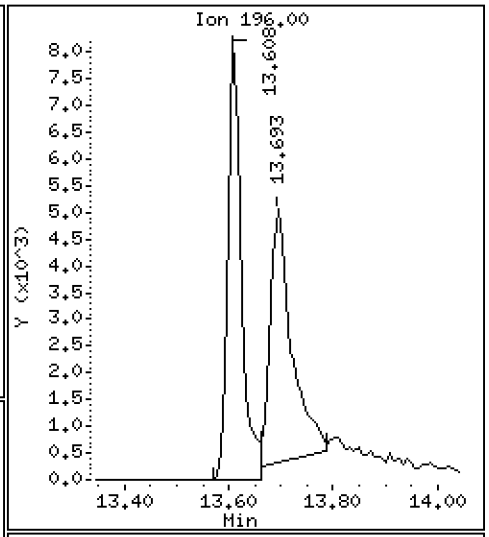
Concentration: 0.5236 ug/mL

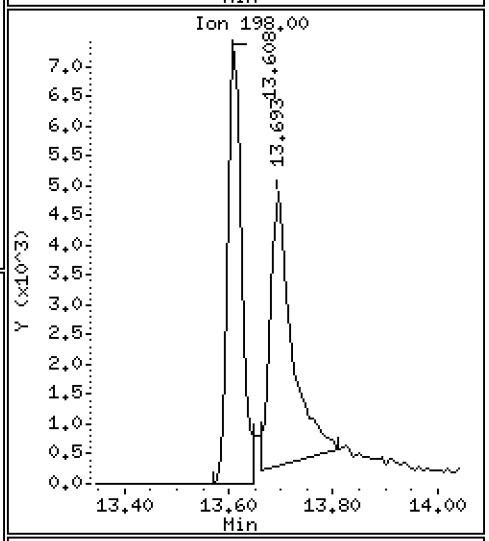


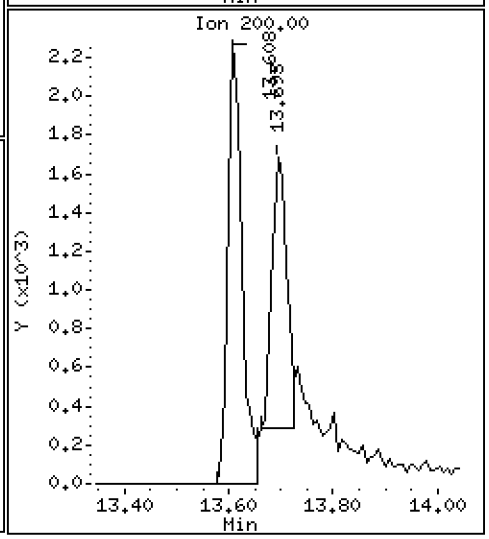












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

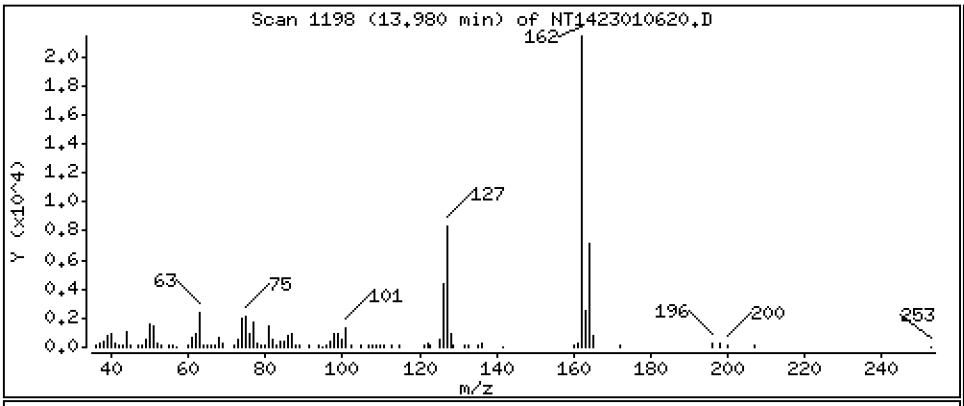
Operator: VTS

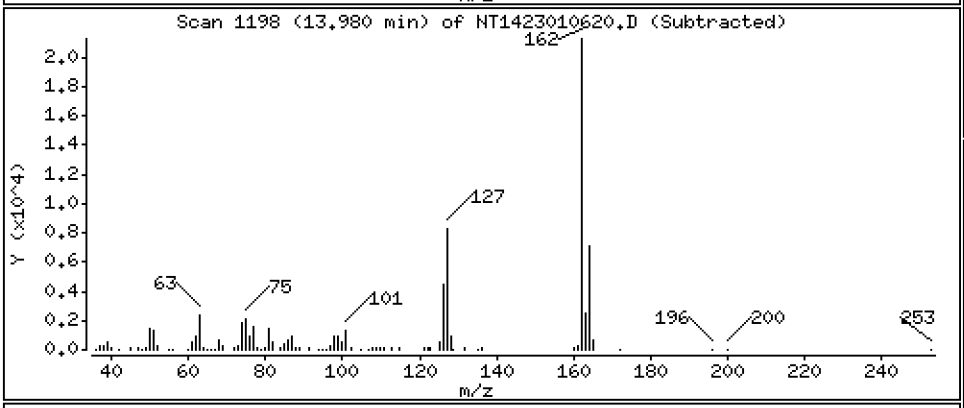
Column phase: ZB-5msi

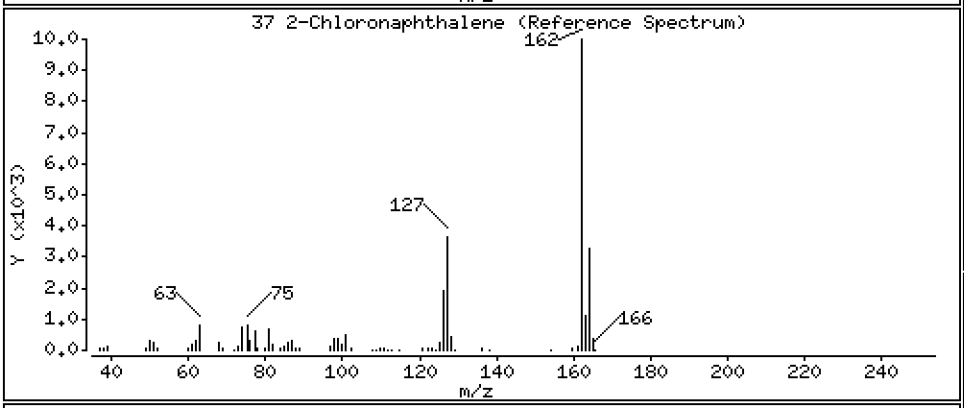
Column diameter: 0.25

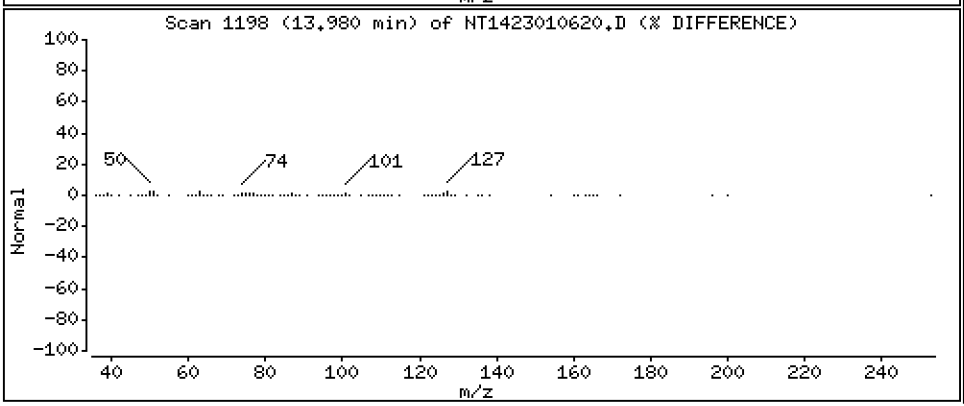
37 2-Chloronaphthalene

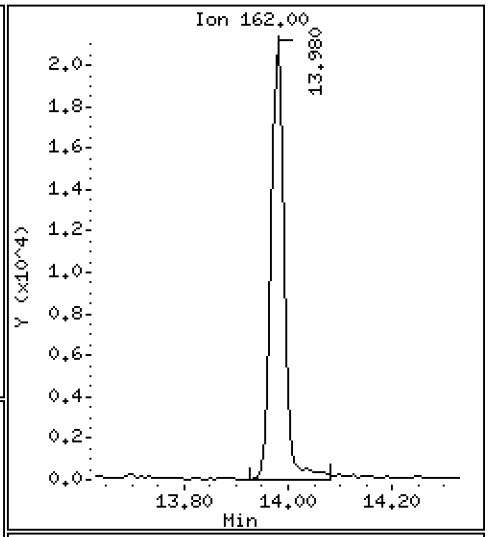
Concentration: 0.4689 ug/mL

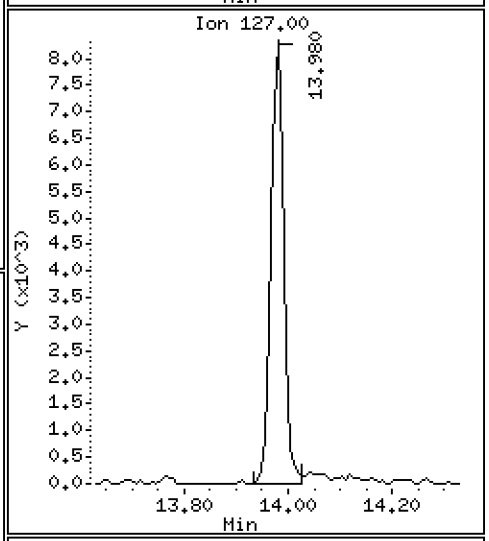


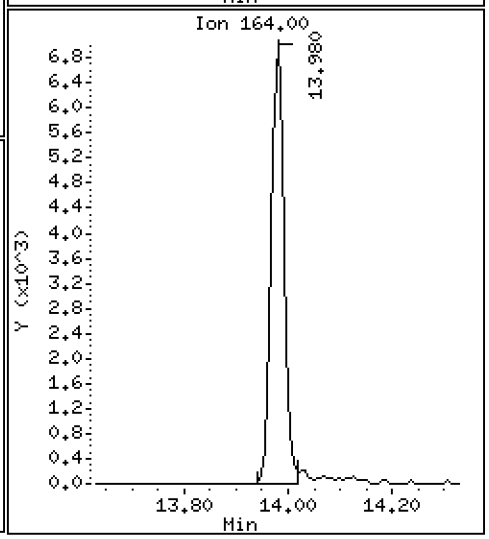












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

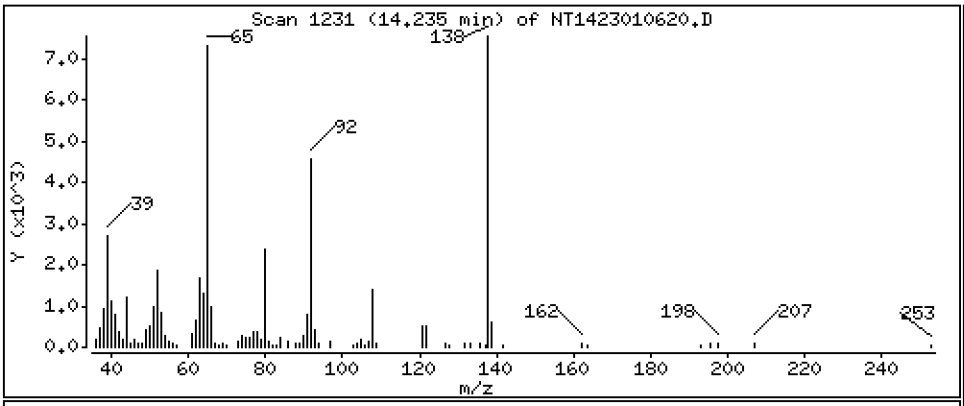
Operator: VTS

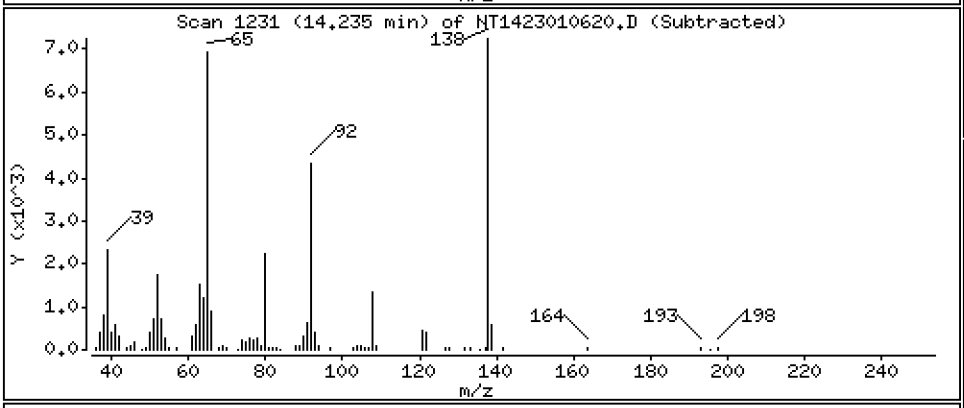
Column phase: ZB-5msi

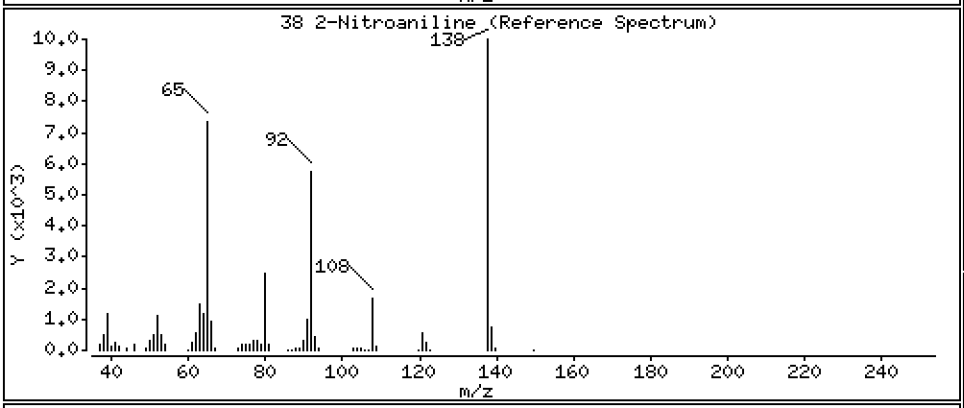
Column diameter: 0.25

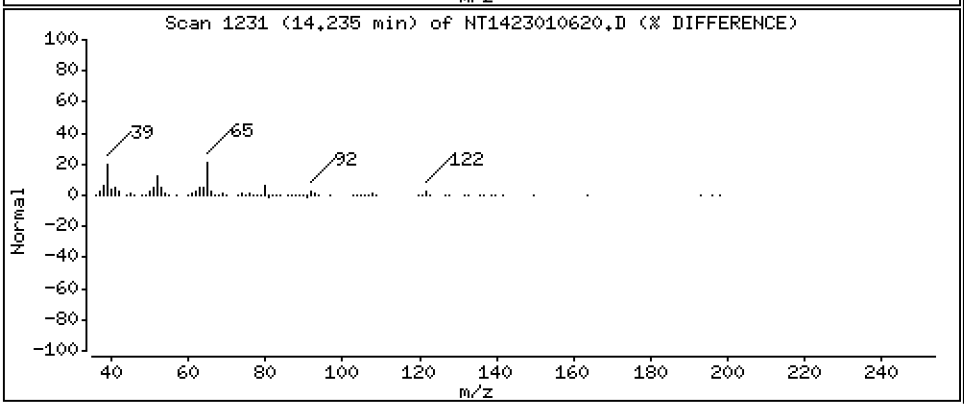
38 2-Nitroaniline

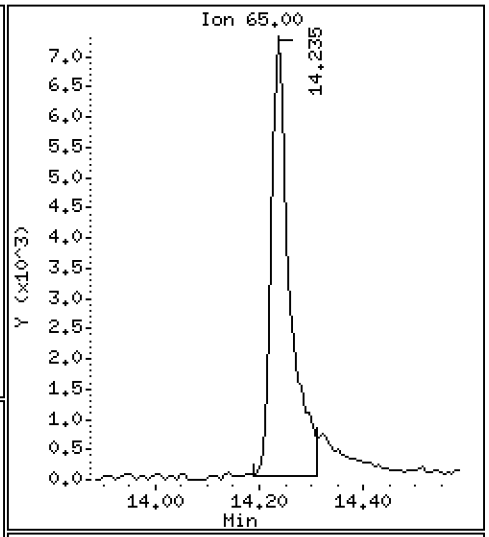
Concentration: 0.8760 ug/mL

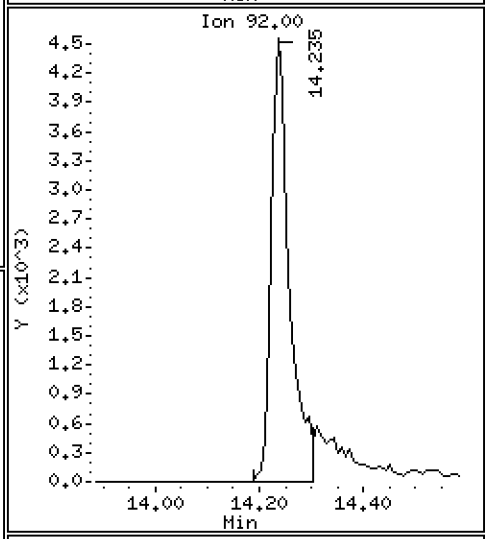


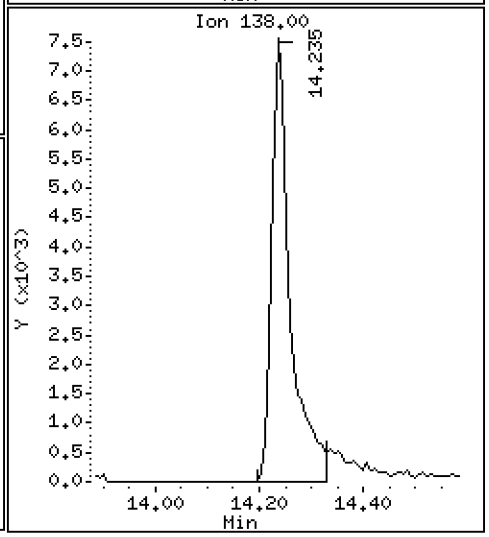












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

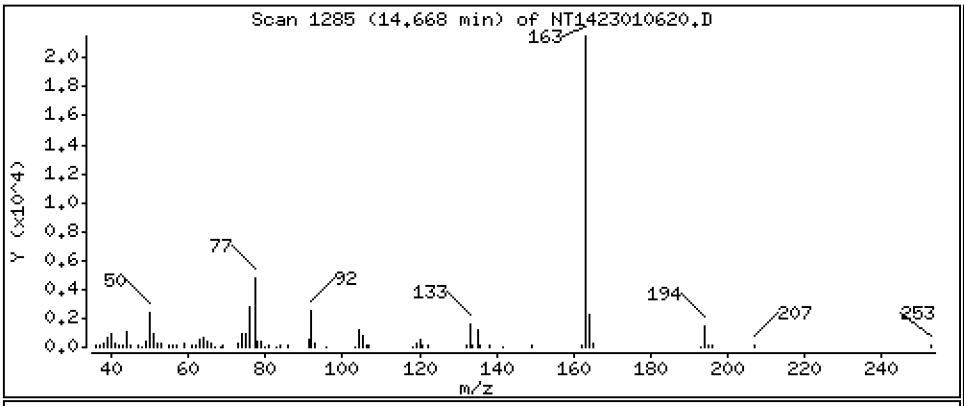
Operator: VTS

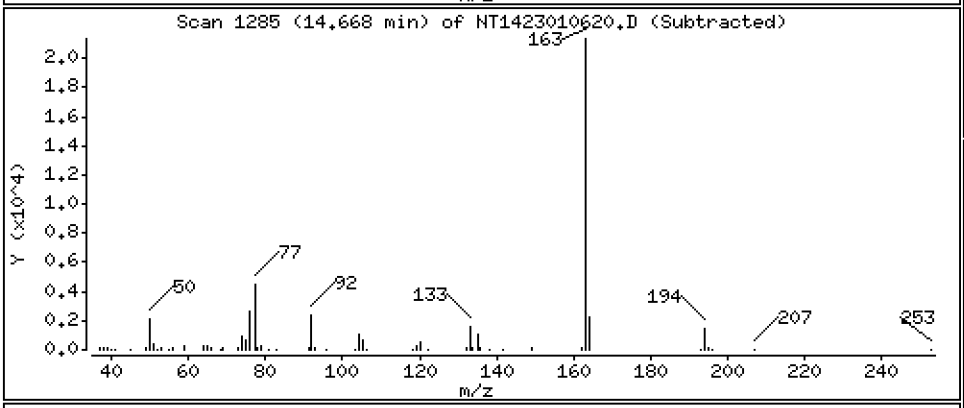
Column phase: ZB-5msi

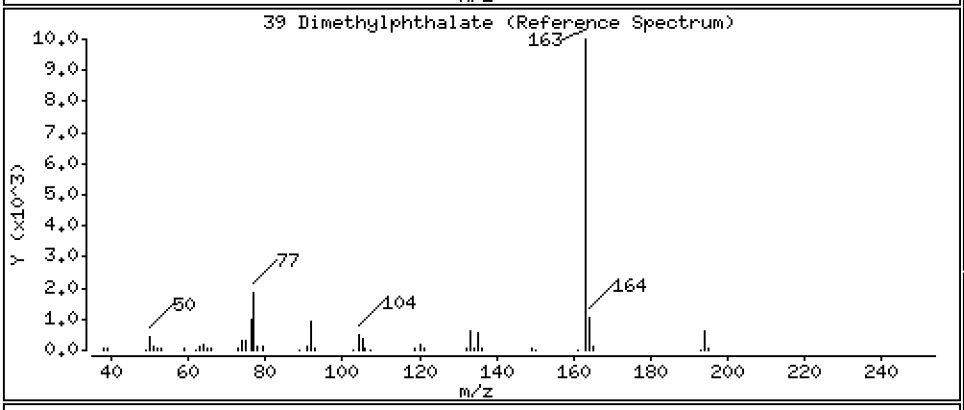
Column diameter: 0.25

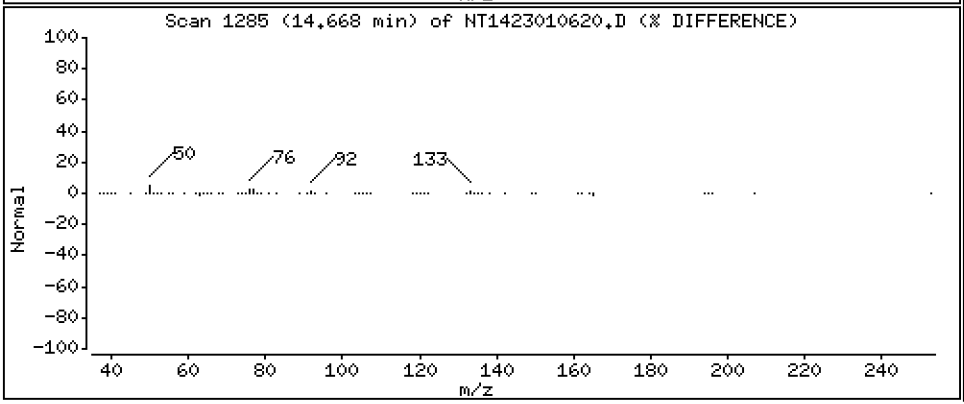
39 Dimethylphthalate

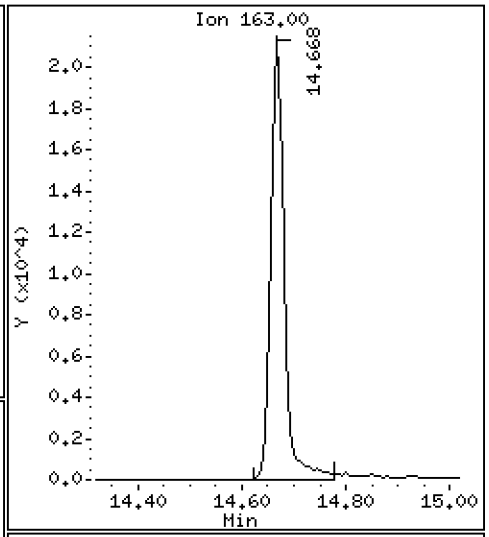
Concentration: 0.4849 ug/mL

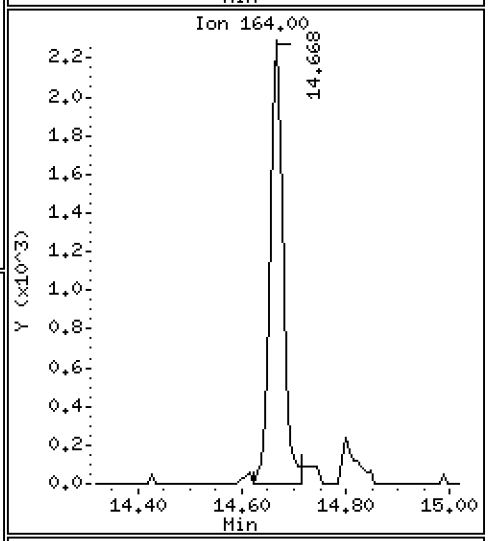


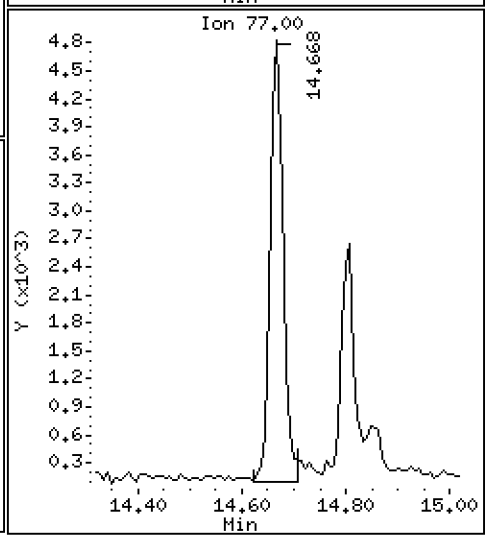












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

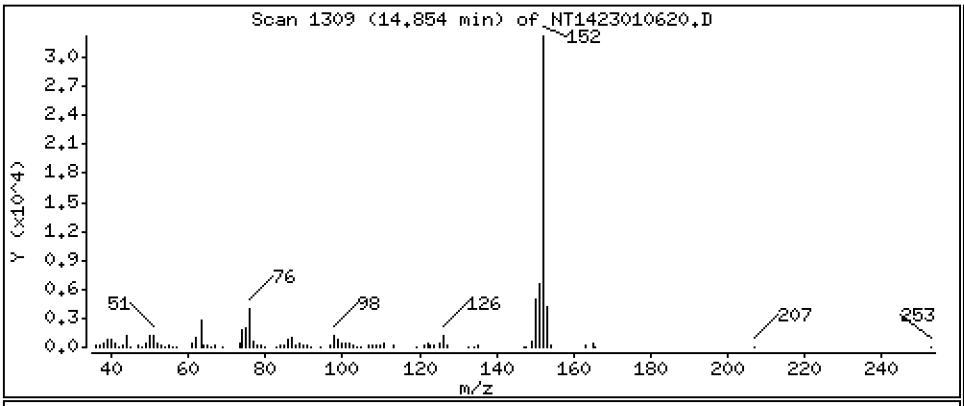
Operator: VTS

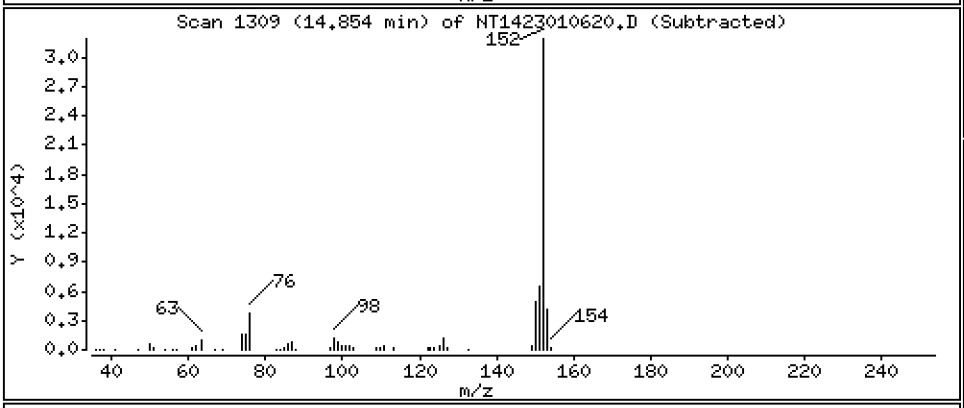
Column phase: ZB-5msi

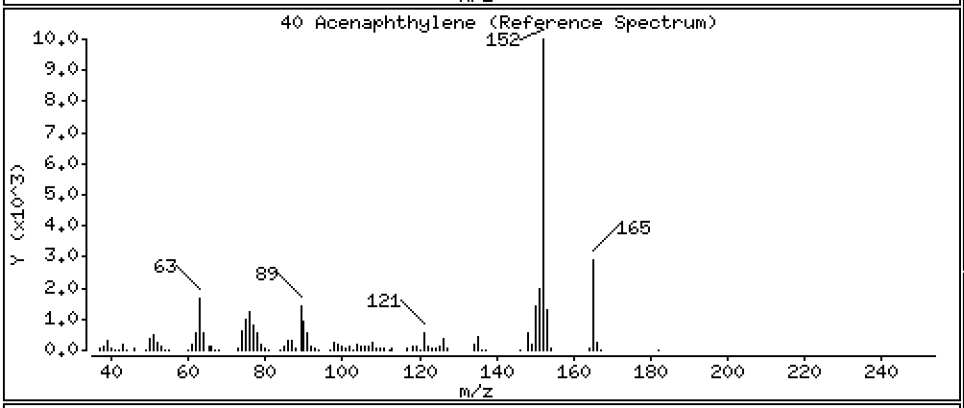
Column diameter: 0.25

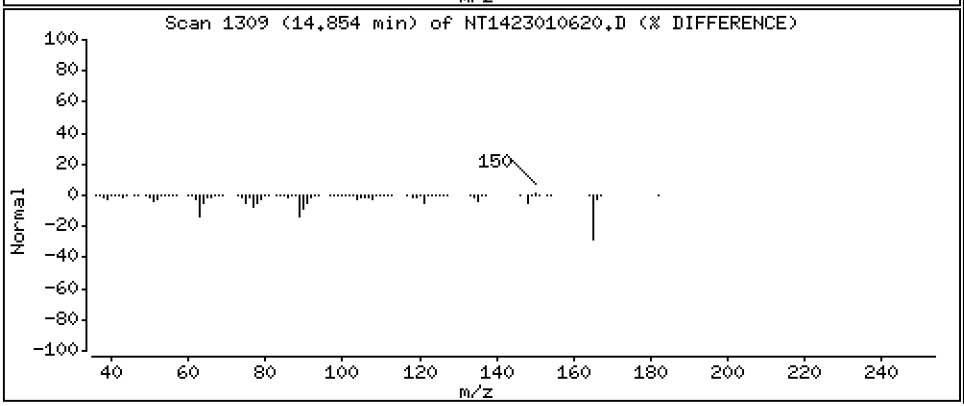
40 Acenaphthylene

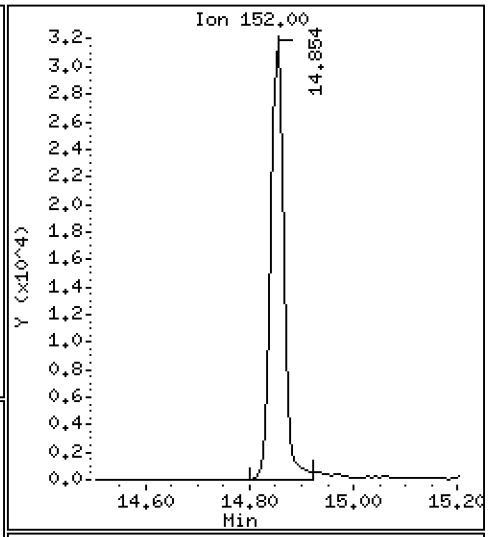
Concentration: 0.4583 ug/mL

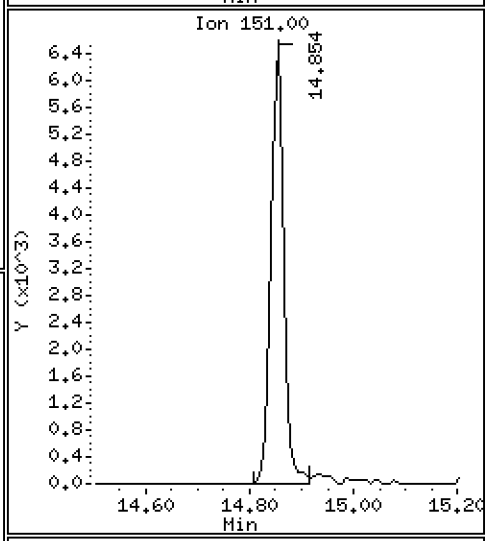


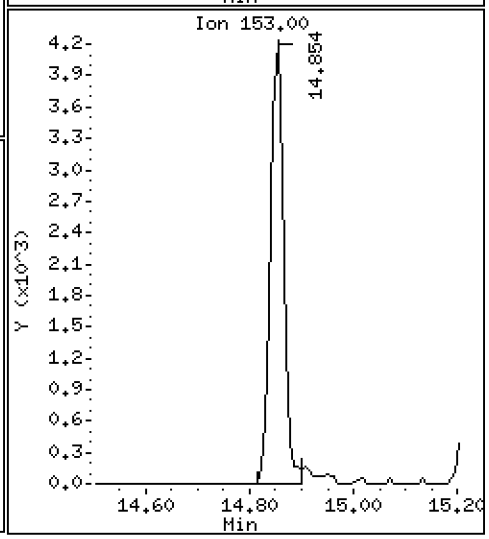












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

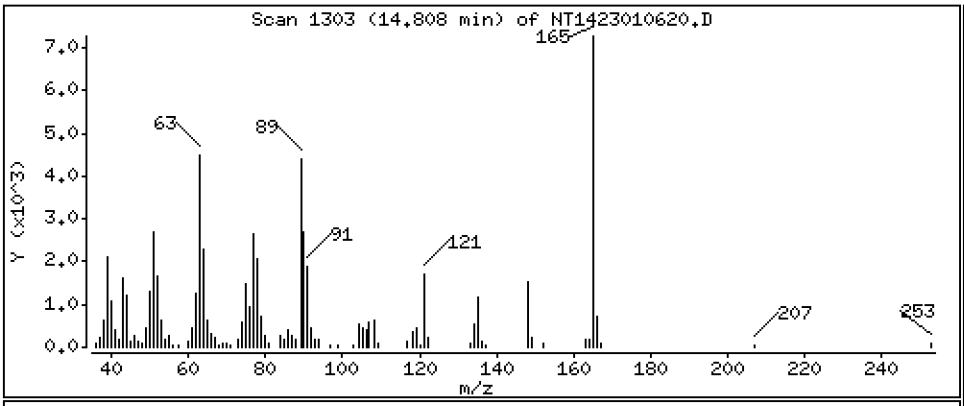
Operator: VTS

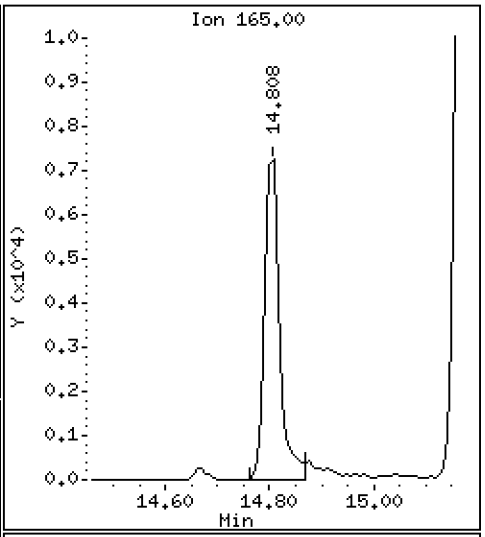
Column phase: ZB-5msi

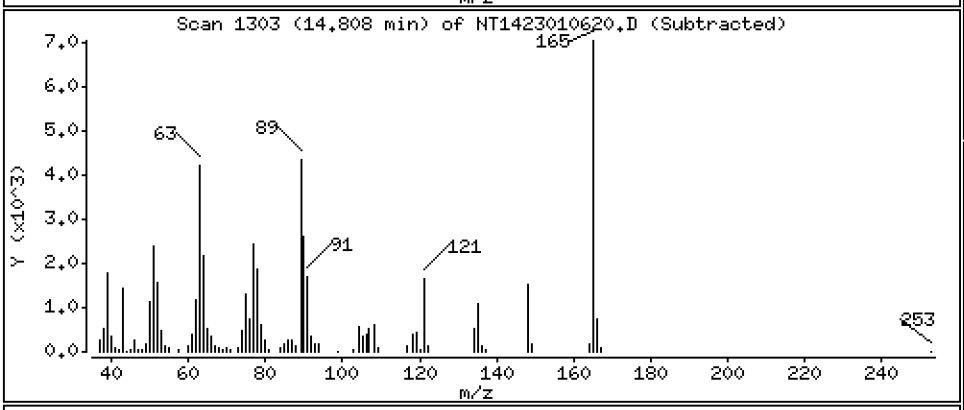
Column diameter: 0.25

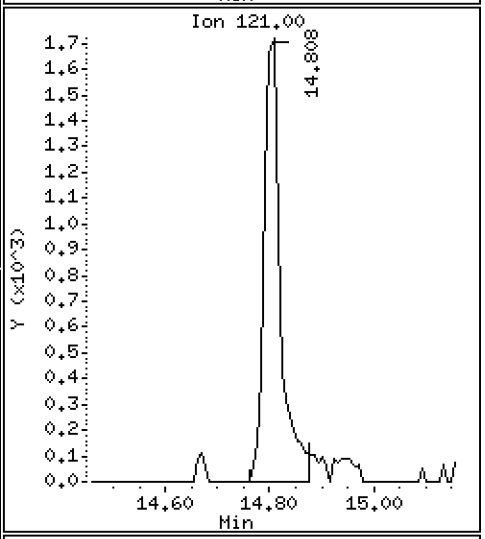
41 2,6-Dinitrotoluene

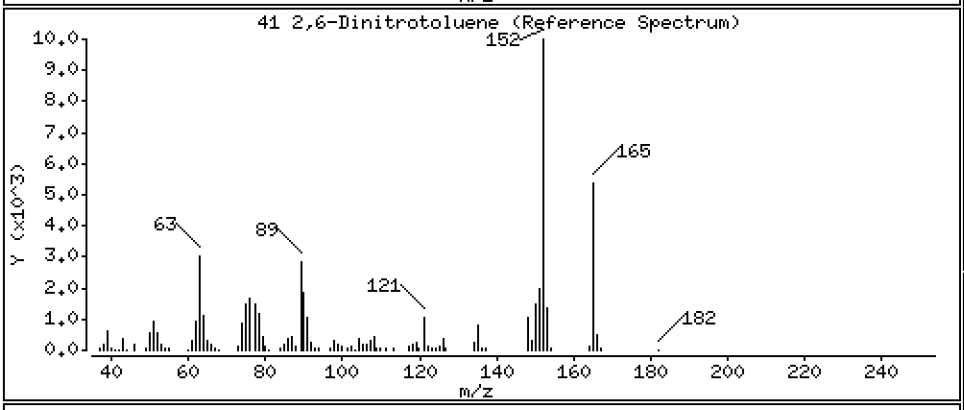
Concentration: 0.8294 ug/mL

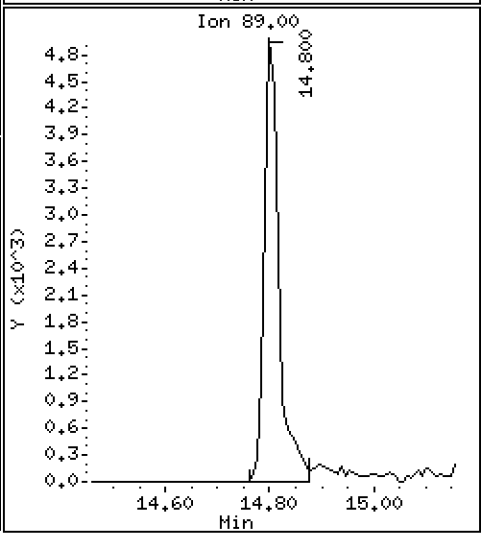


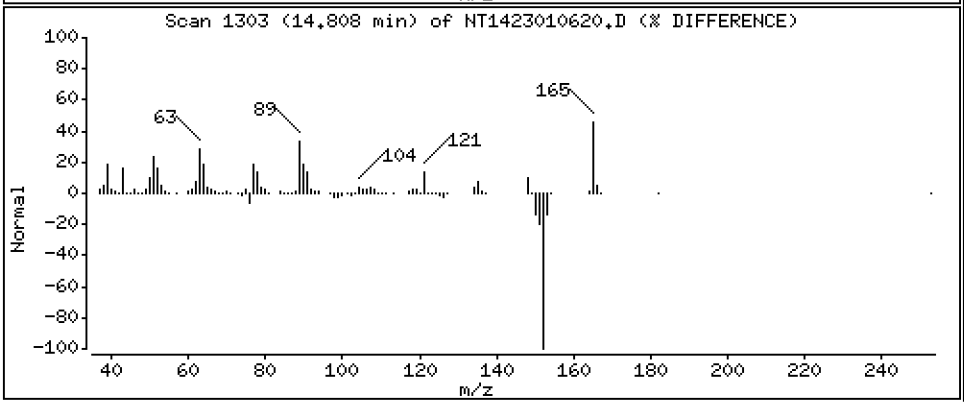












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

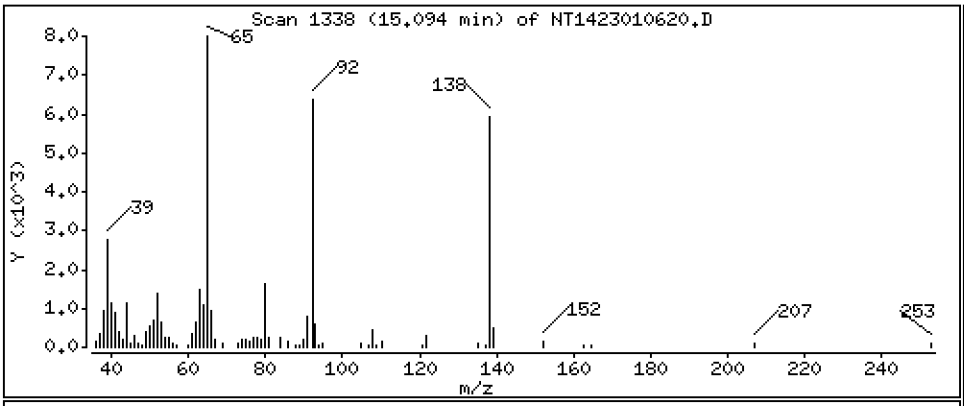
Operator: VTS

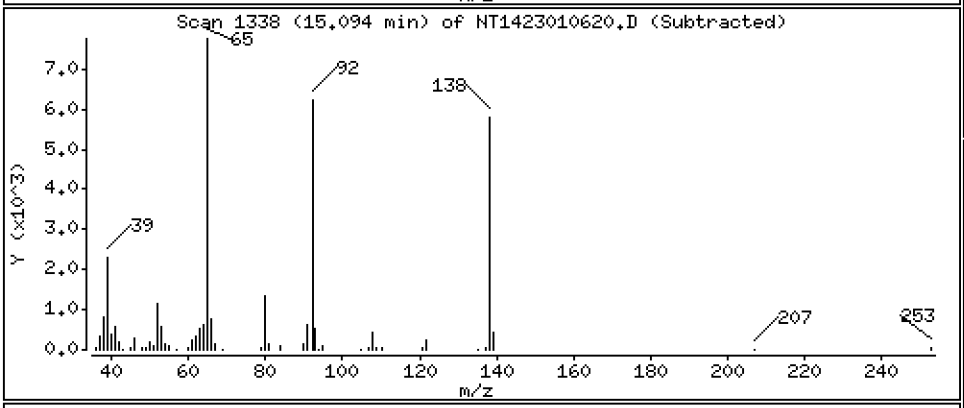
Column phase: ZB-5msi

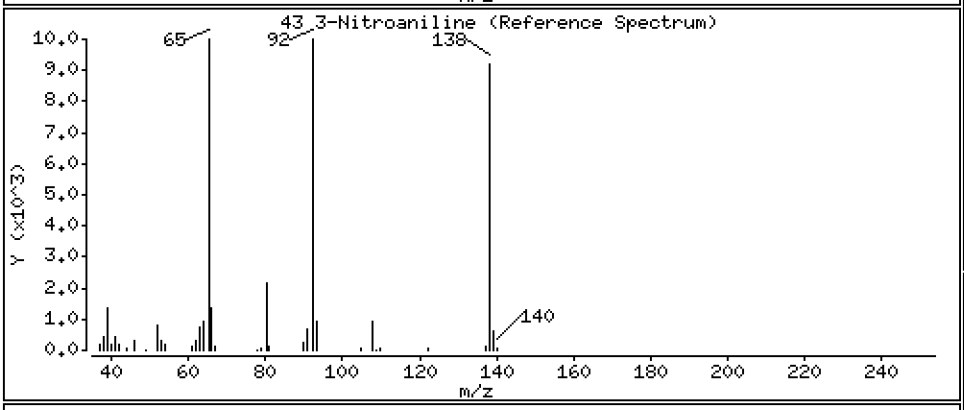
Column diameter: 0.25

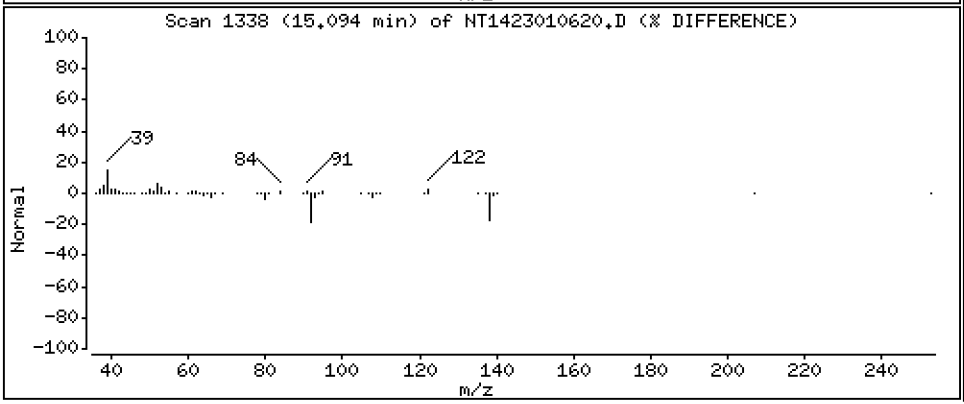
43 3-Nitroaniline

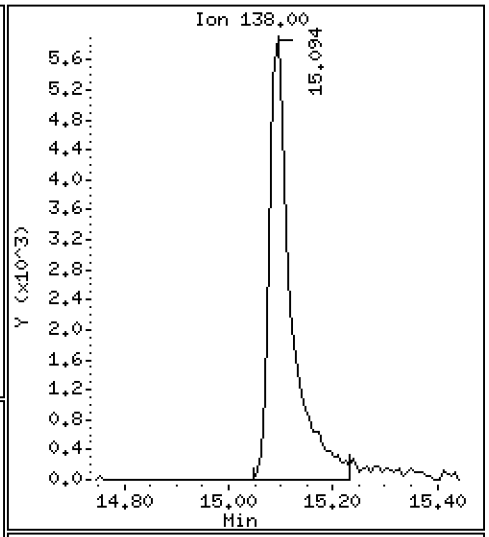
Concentration: 0.8182 ug/mL

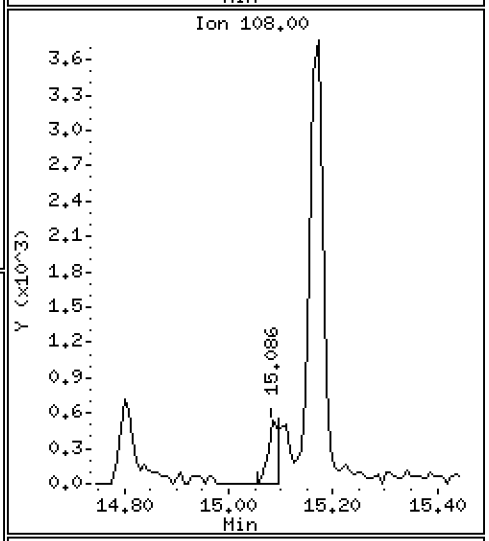


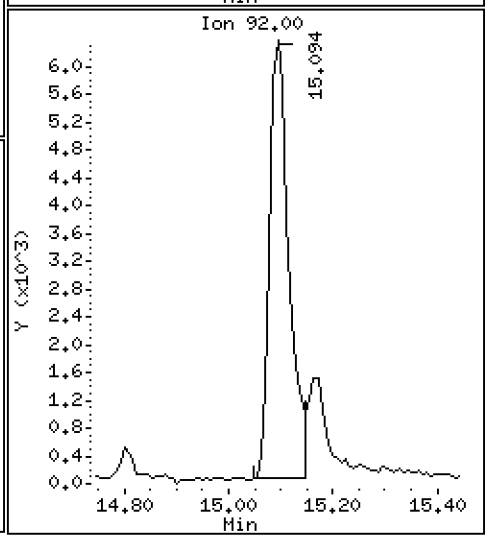












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

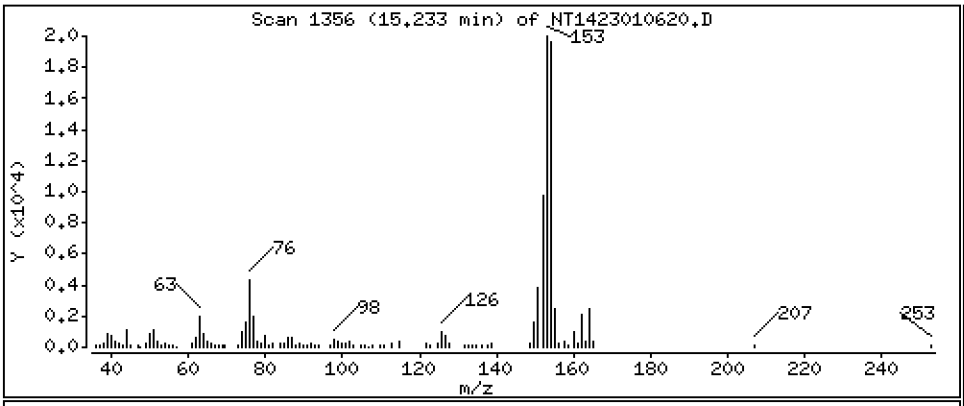
Operator: VTS

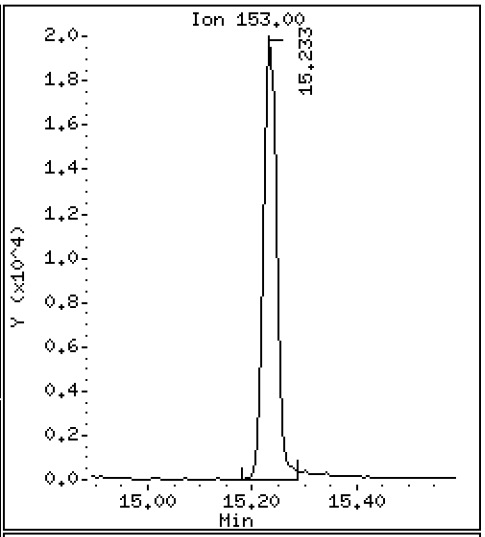
Column phase: ZB-5msi

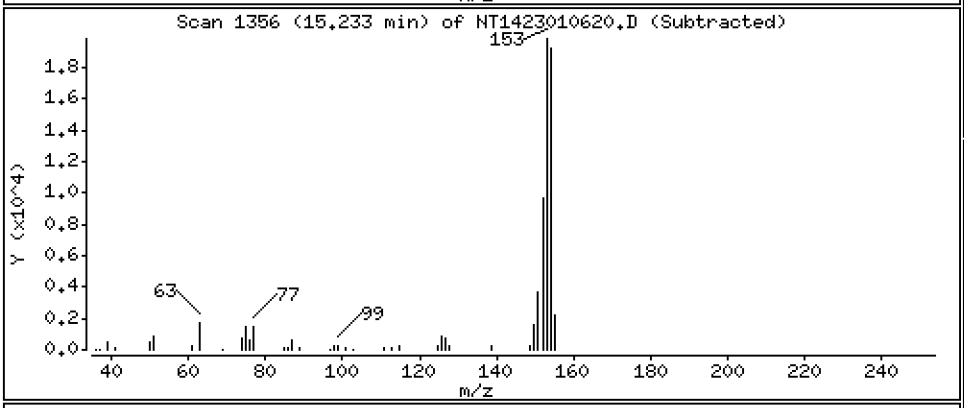
Column diameter: 0.25

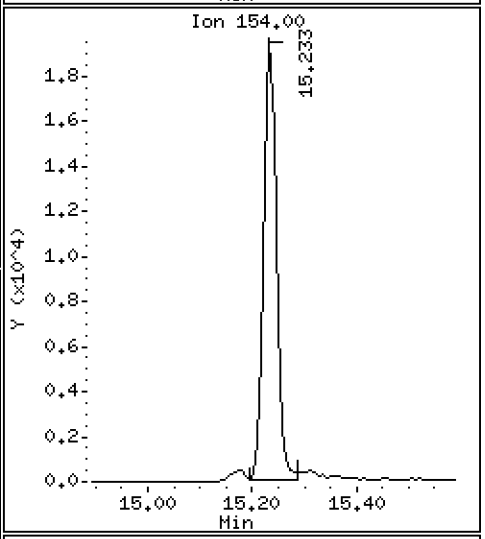
44 Acenaphthene

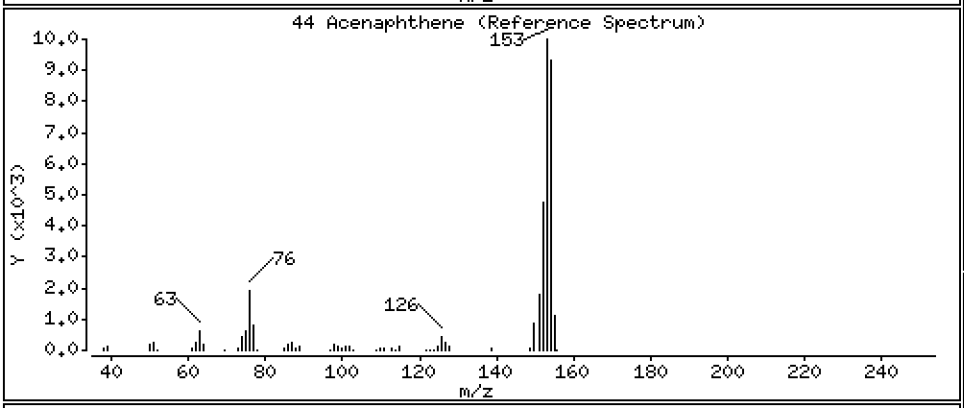
Concentration: 0.4660 ug/mL

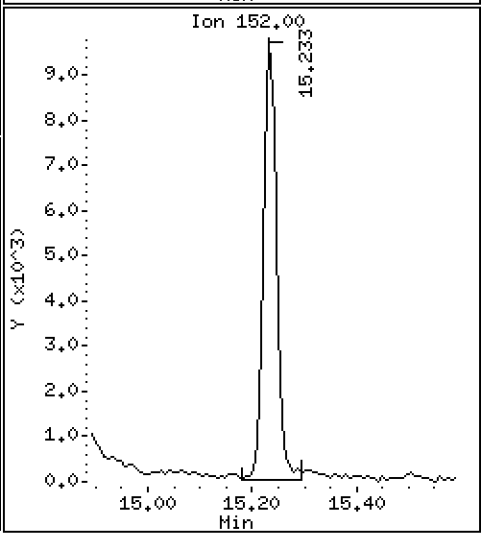


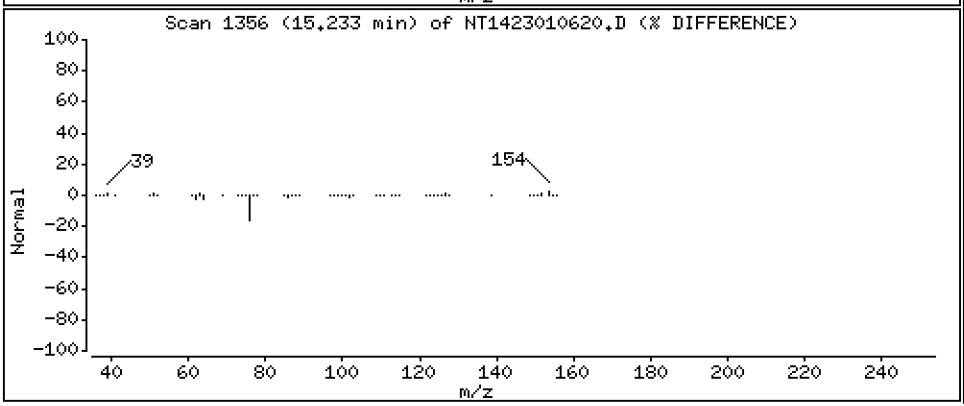












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

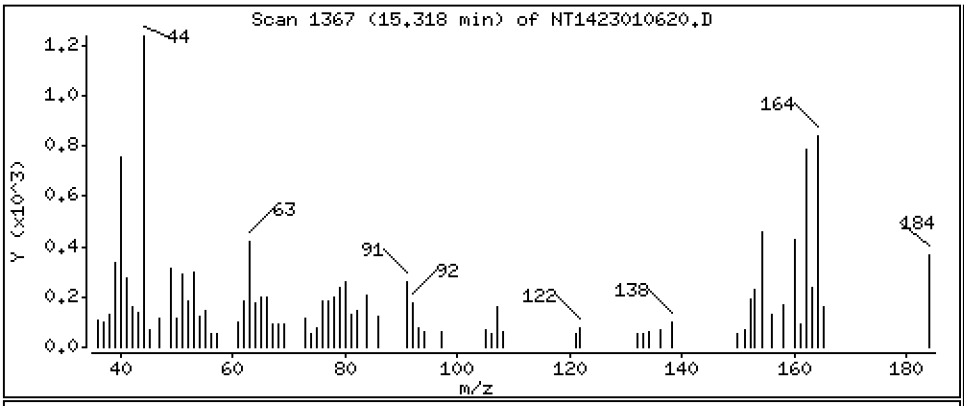
Operator: VTS

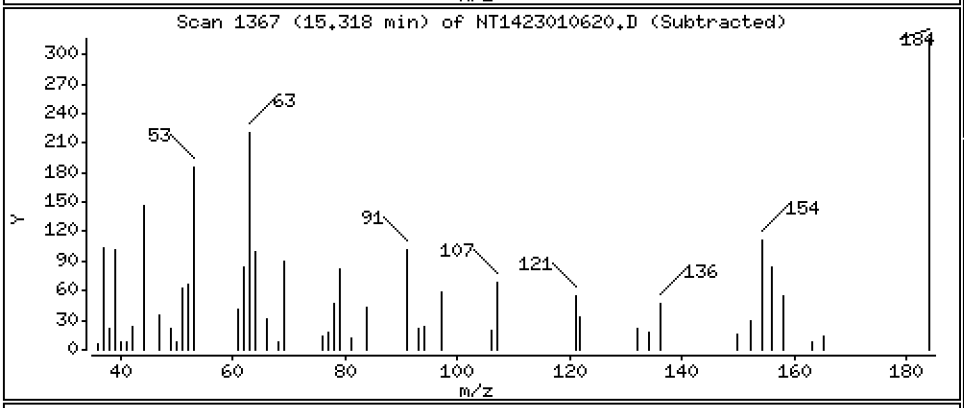
Column phase: ZB-5msi

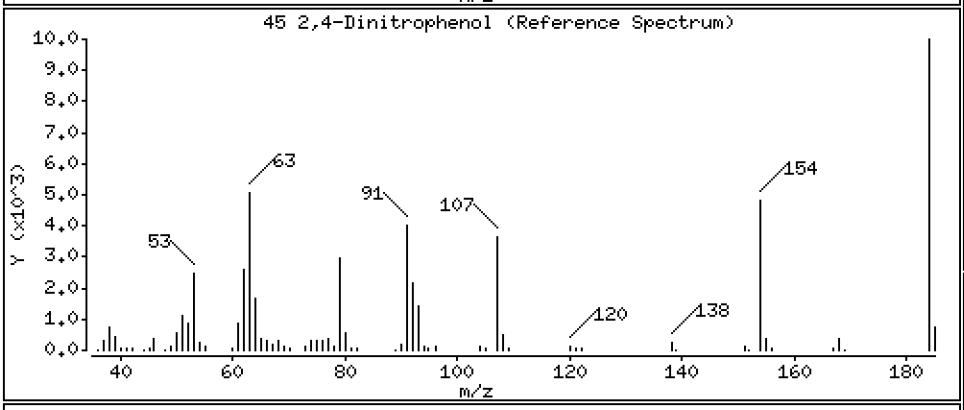
Column diameter: 0.25

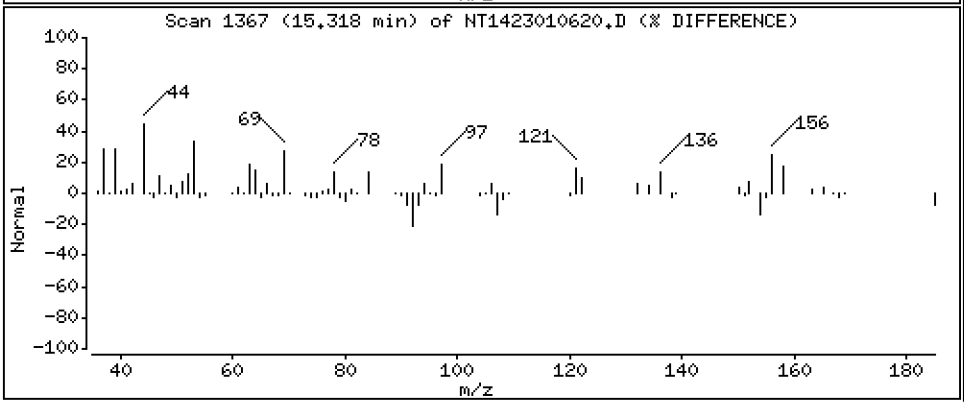
45 2,4-Dinitrophenol

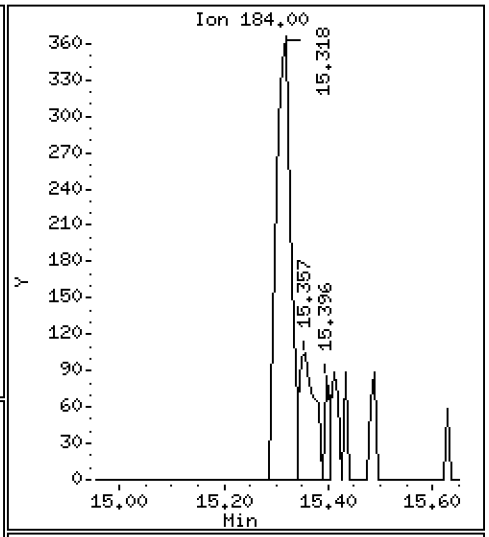
Concentration: 0.04962 ug/mL

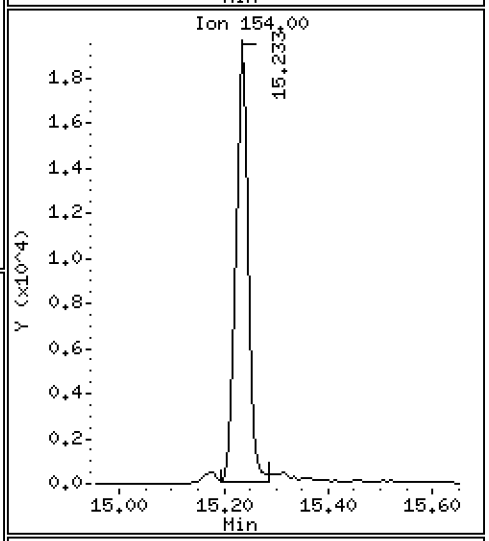


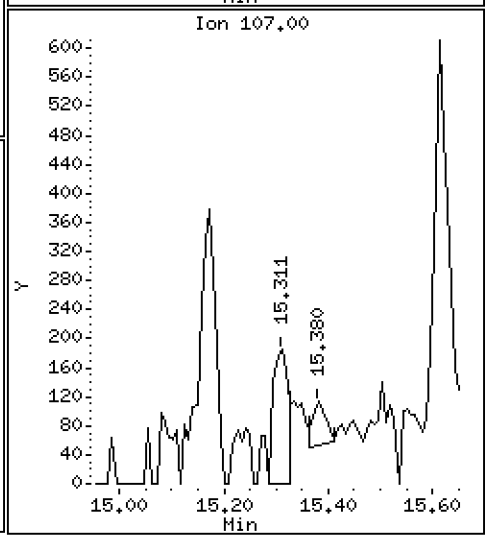












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

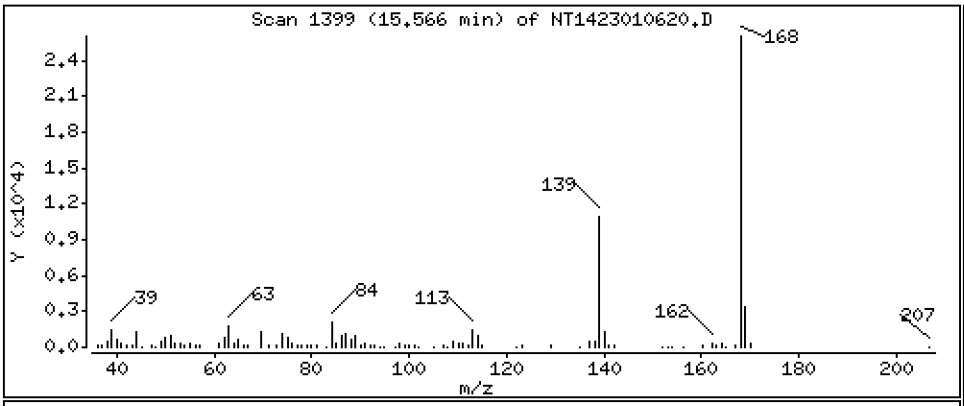
Operator: VTS

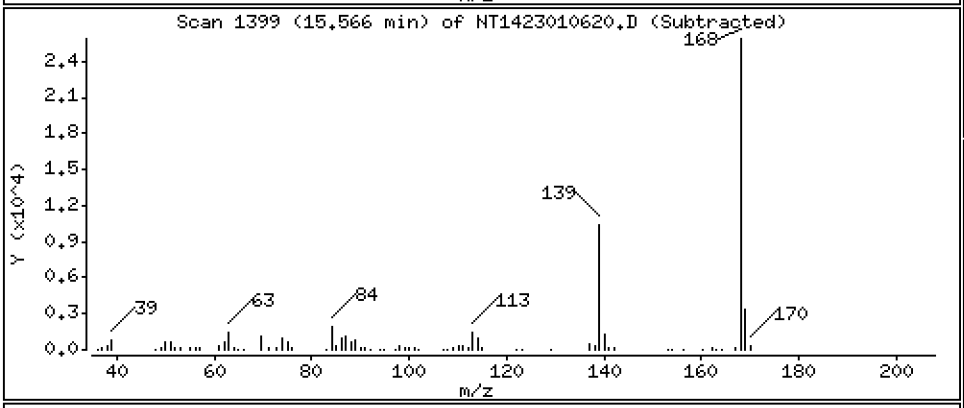
Column phase: ZB-5msi

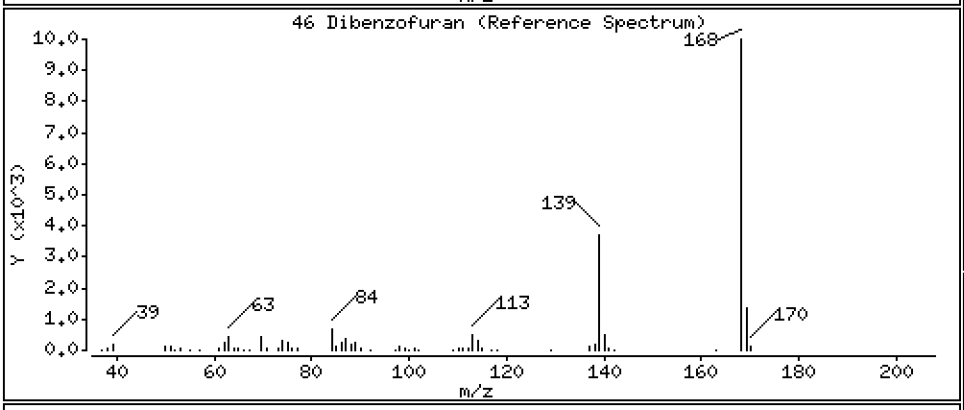
Column diameter: 0.25

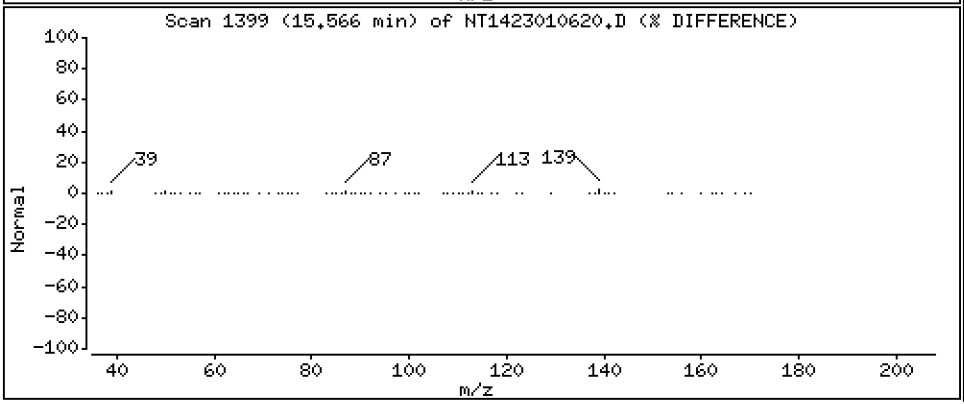
46 Dibenzofuran

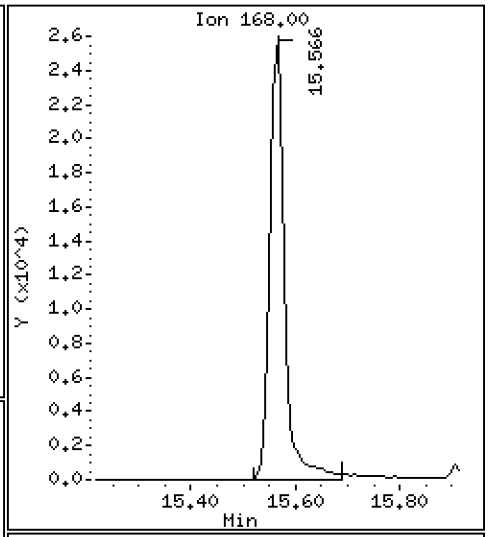
Concentration: 0.4526 ug/mL

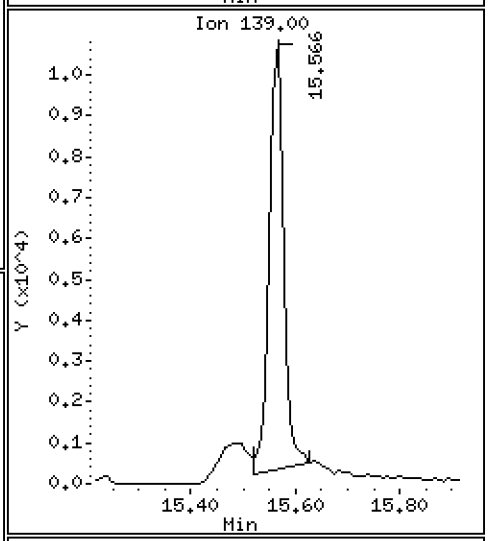


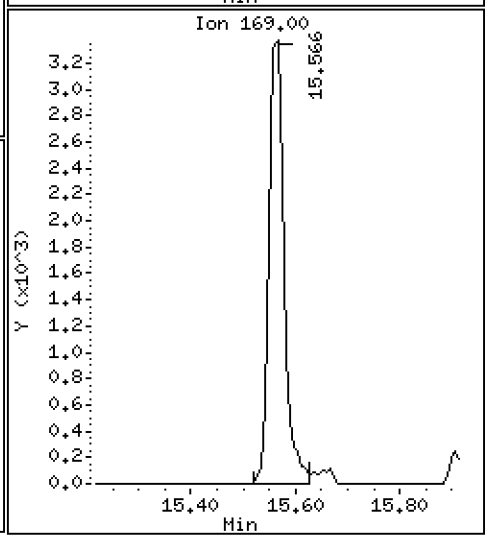












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

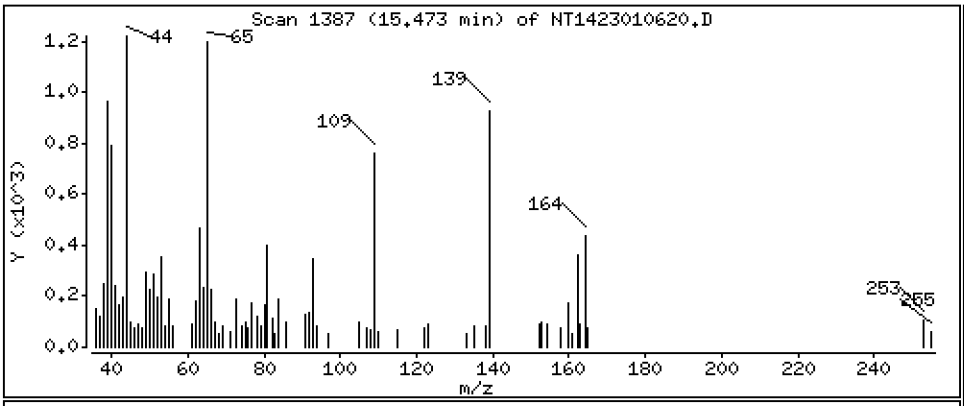
Operator: VTS

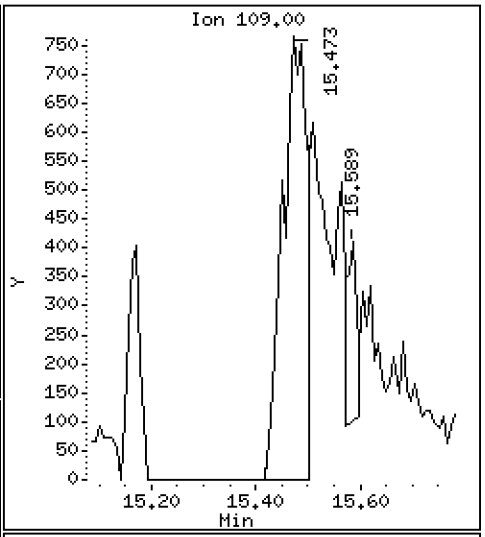
Column phase: ZB-5msi

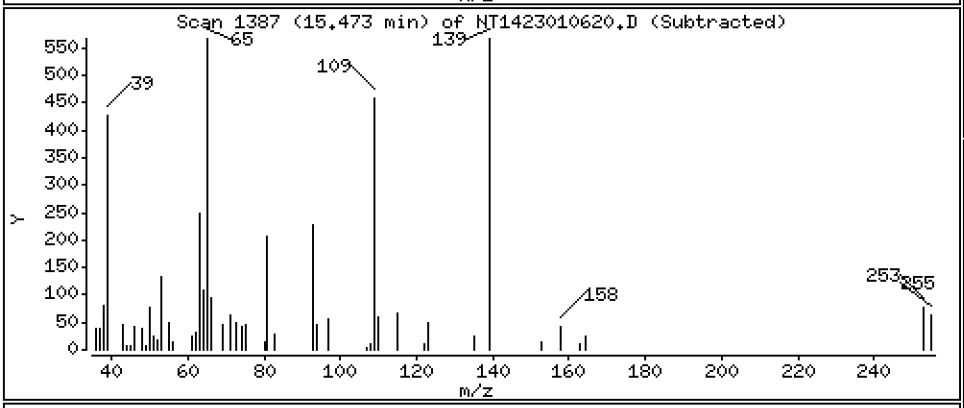
Column diameter: 0.25

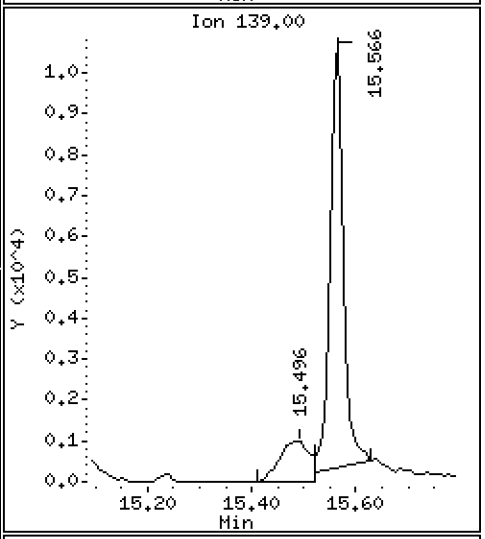
47 4-Nitrophenol

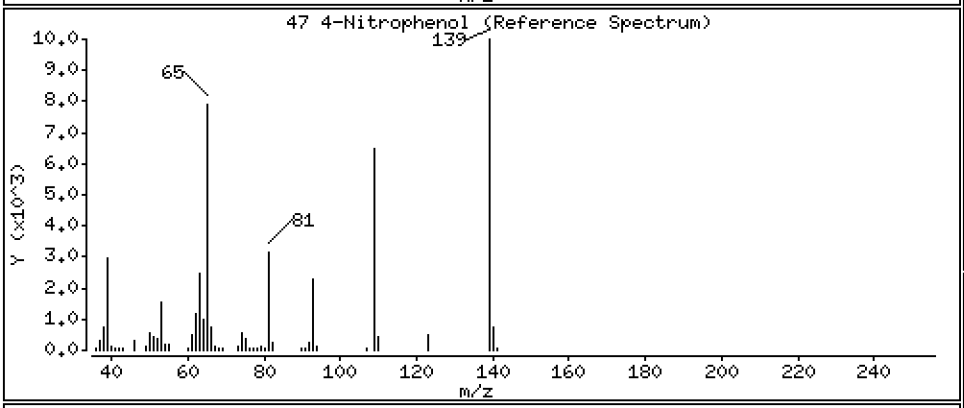
Concentration: 0.2594 ug/mL

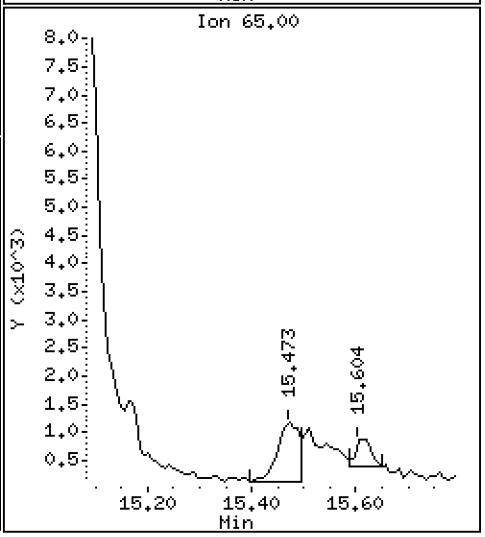


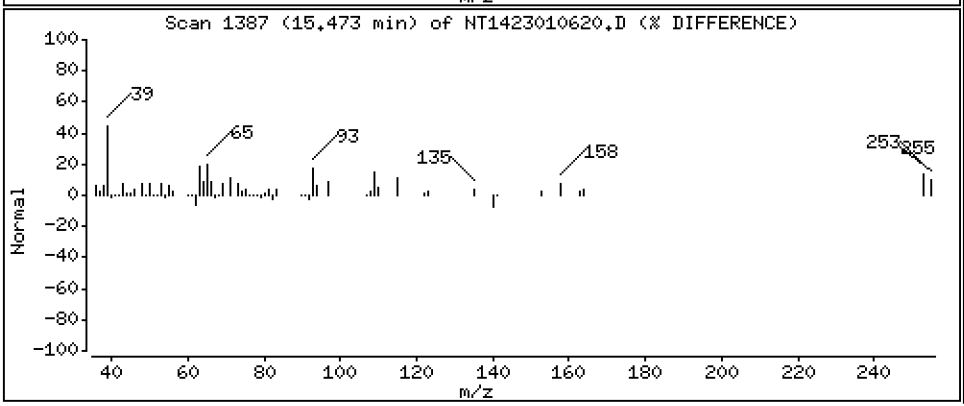












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

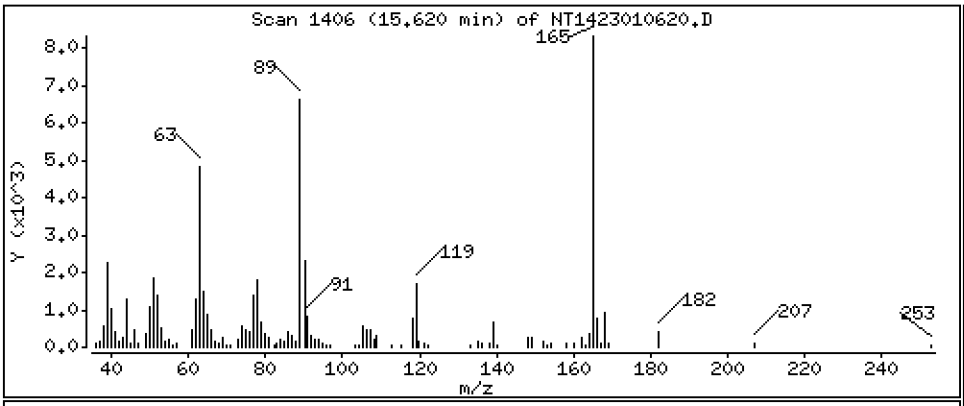
Operator: VTS

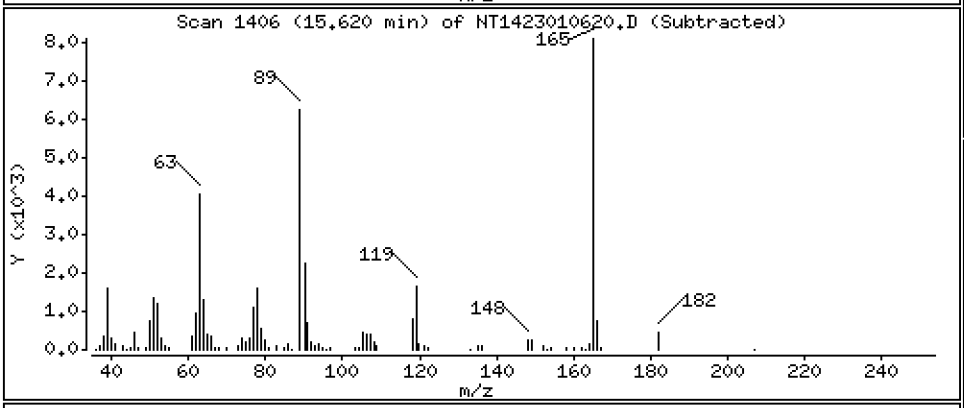
Column phase: ZB-5msi

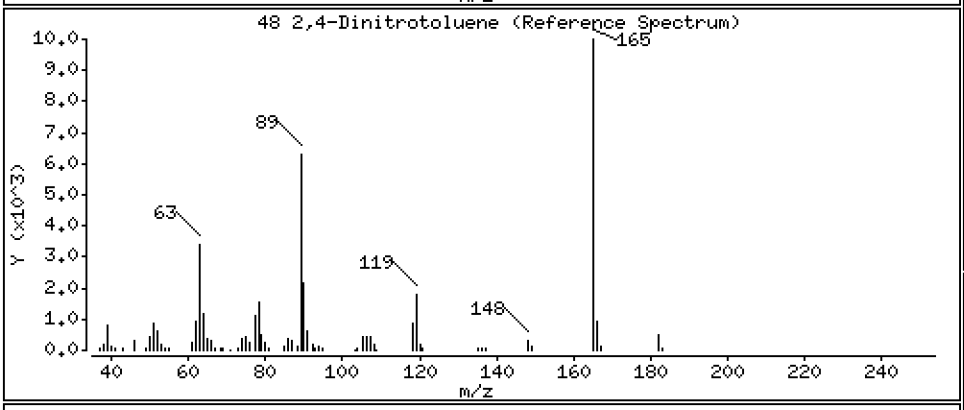
Column diameter: 0.25

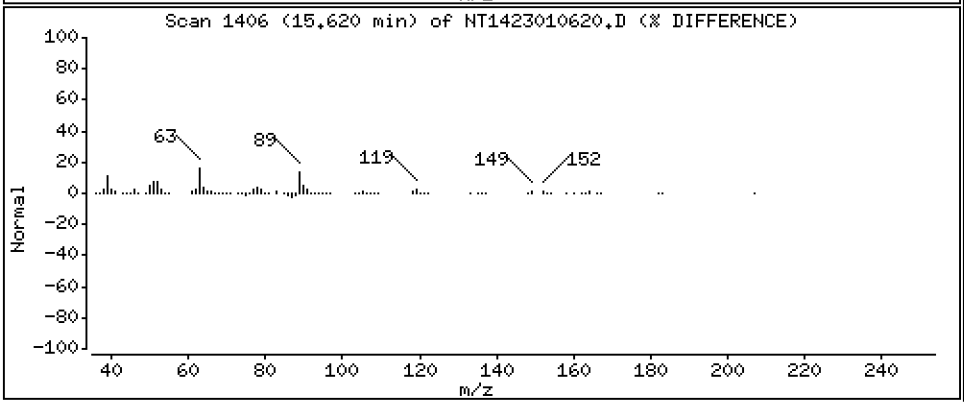
48 2,4-Dinitrotoluene

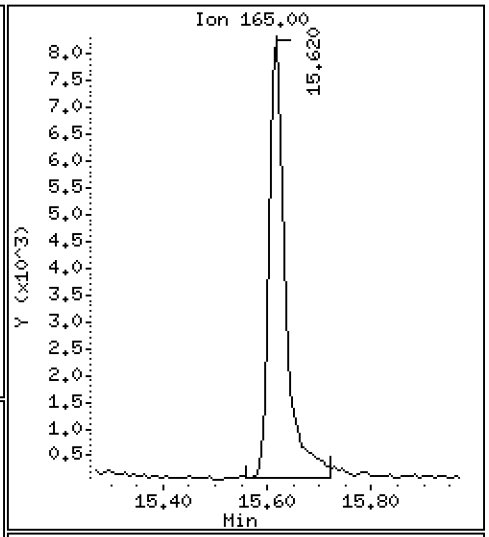
Concentration: 0.7518 ug/mL

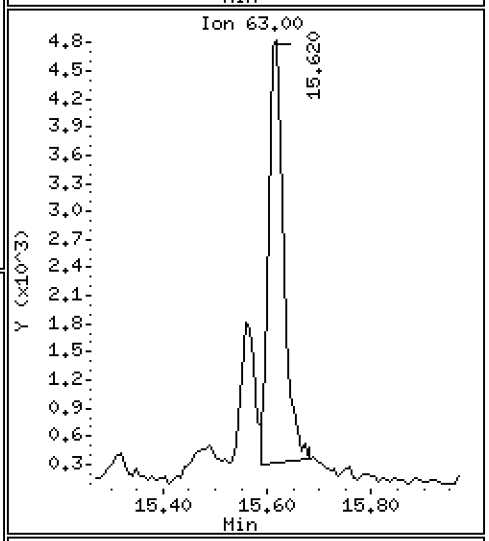


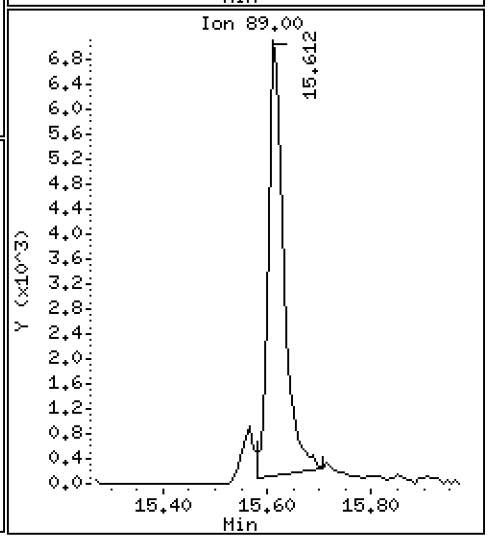












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

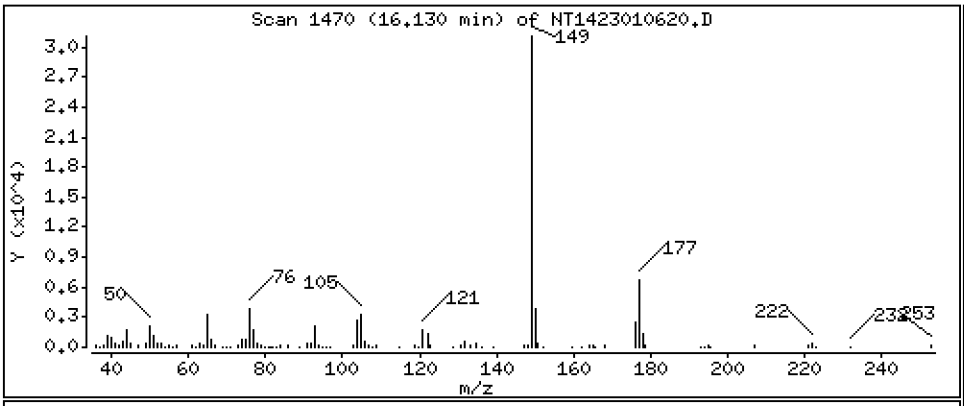
Operator: VTS

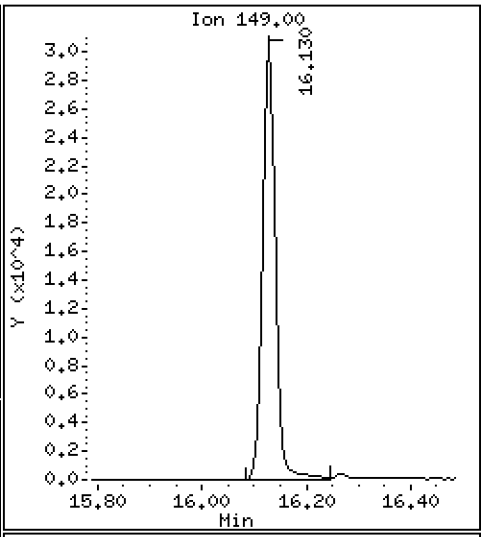
Column phase: ZB-5msi

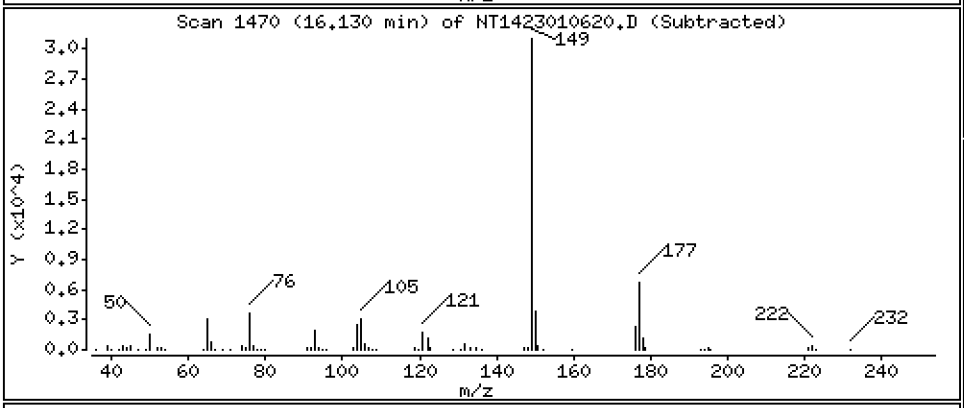
Column diameter: 0.25

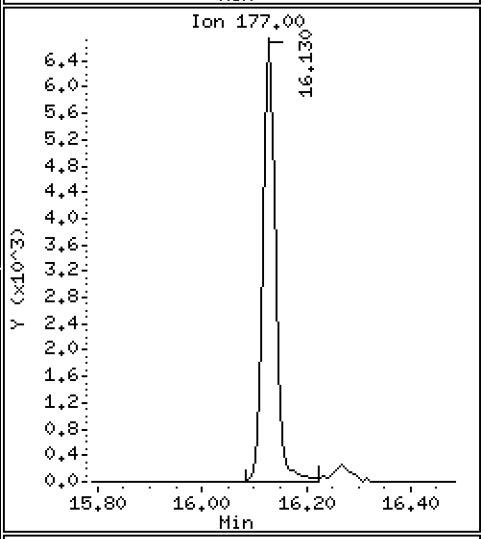
50 Diethylphthalate

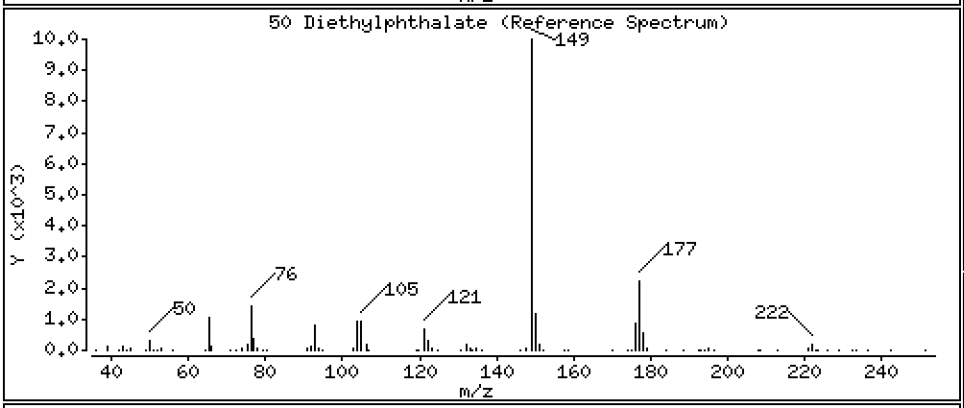
Concentration: 0.5301 ug/mL

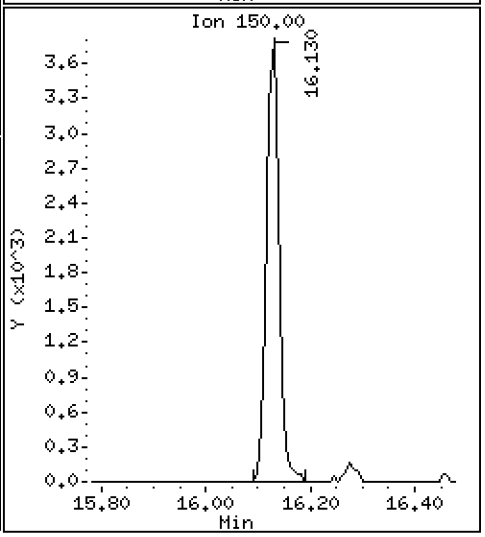


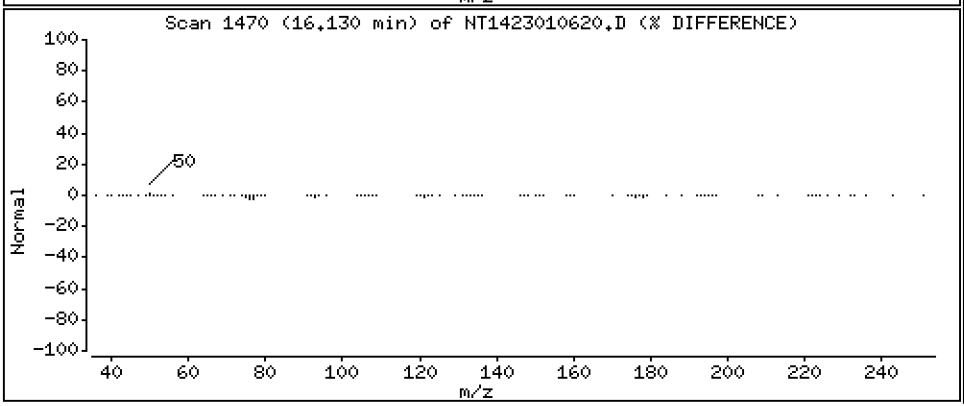












Data File: \\target\share\chem3\nt14.i\20230106.b\NT1423010620.D

Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

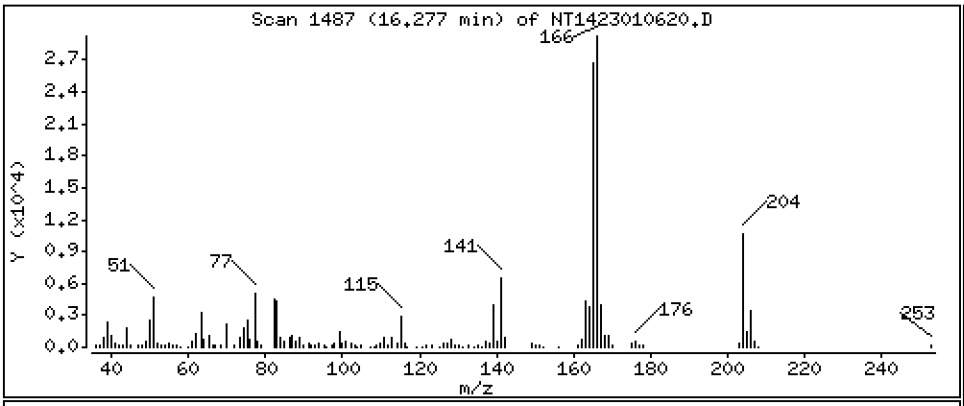
Operator: VTS

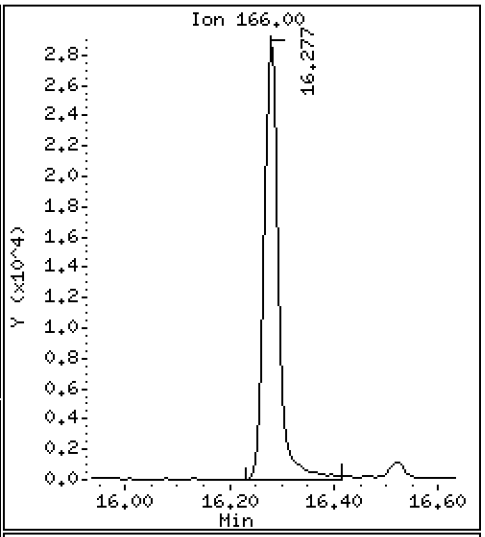
Column phase: ZB-5msi

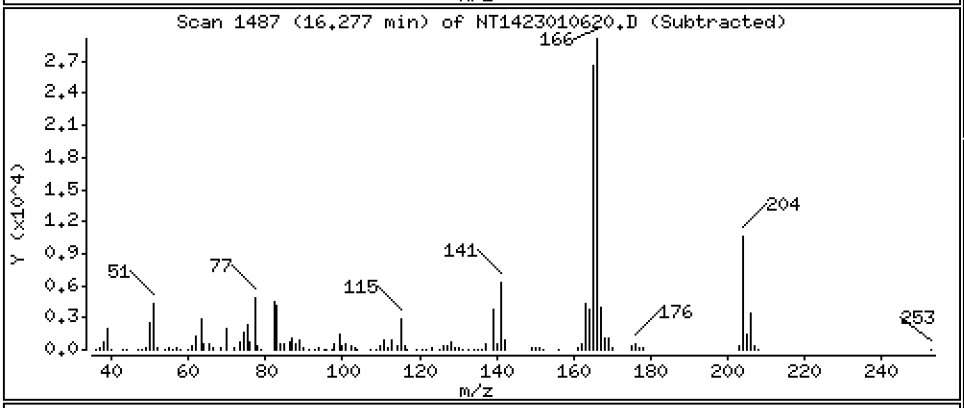
Column diameter: 0.25

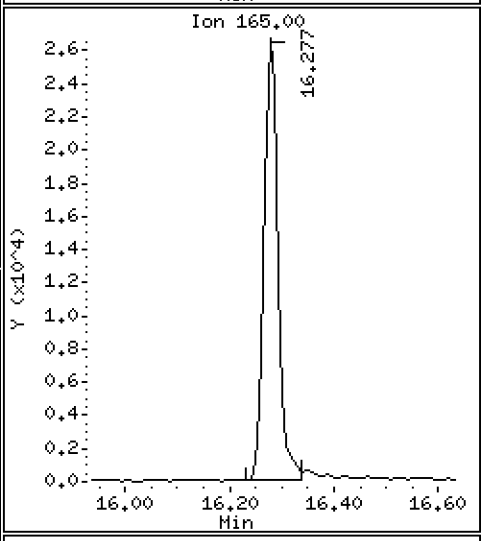
49 Fluorene

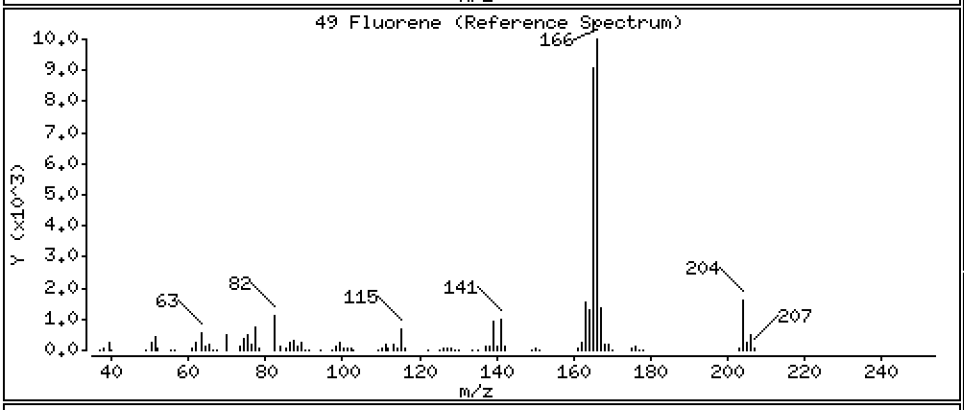
Concentration: 0.4672 ug/mL

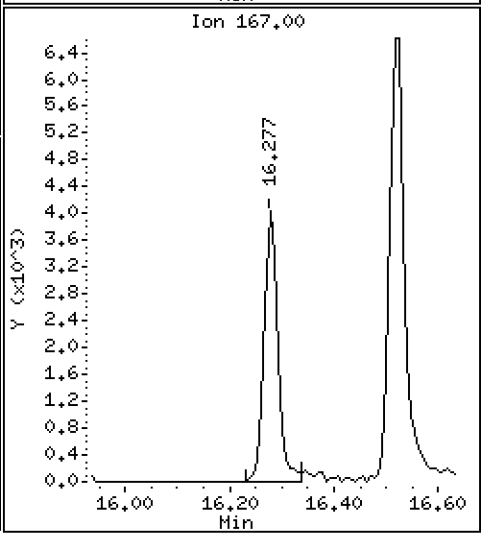


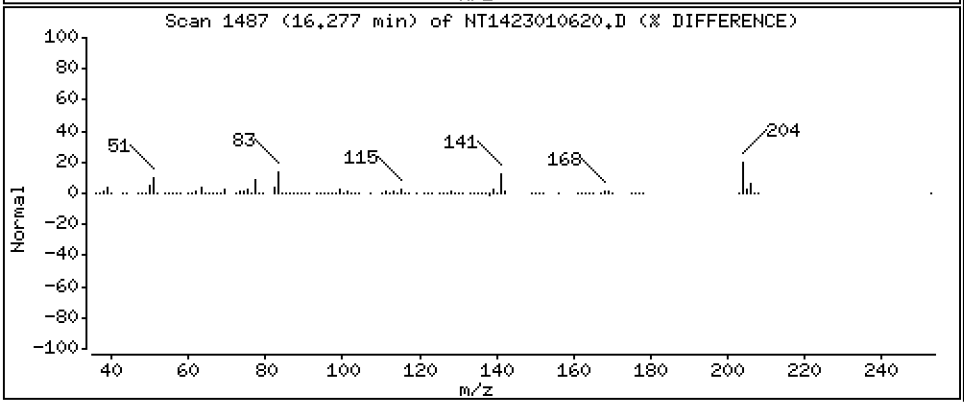












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

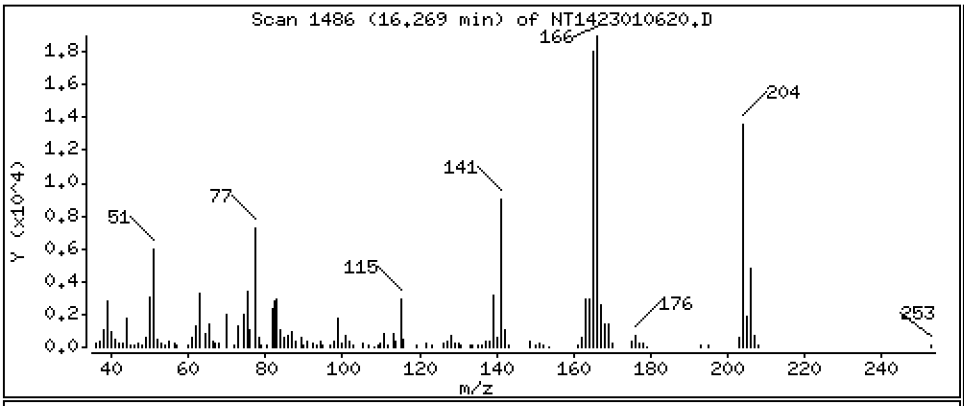
Operator: VTS

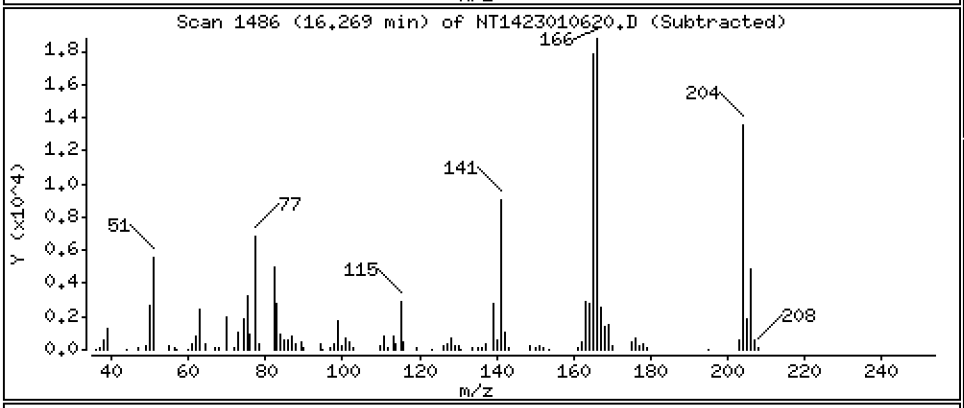
Column phase: ZB-5msi

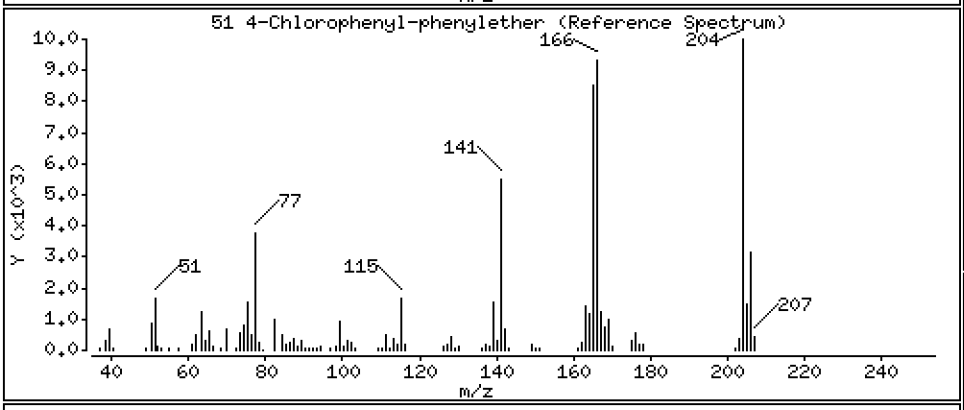
Column diameter: 0.25

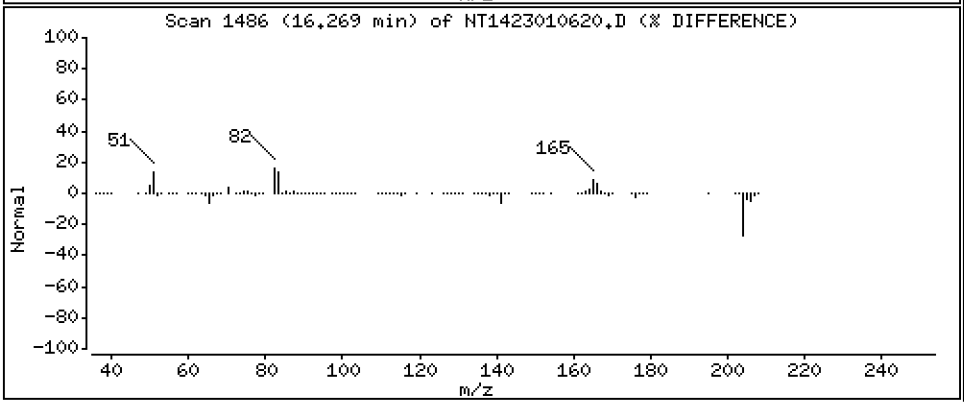
51 4-Chlorophenyl-phenylether

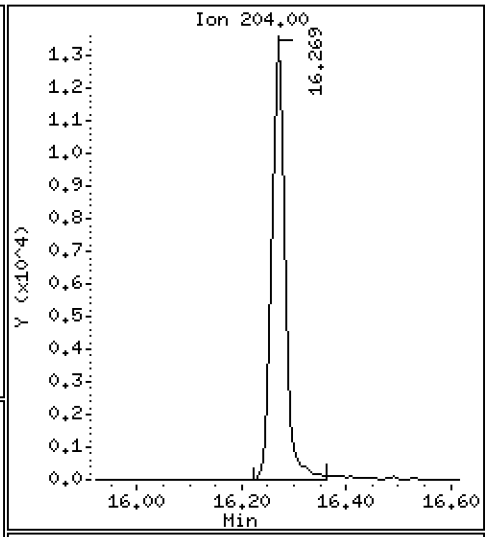
Concentration: 0.4205 ug/mL

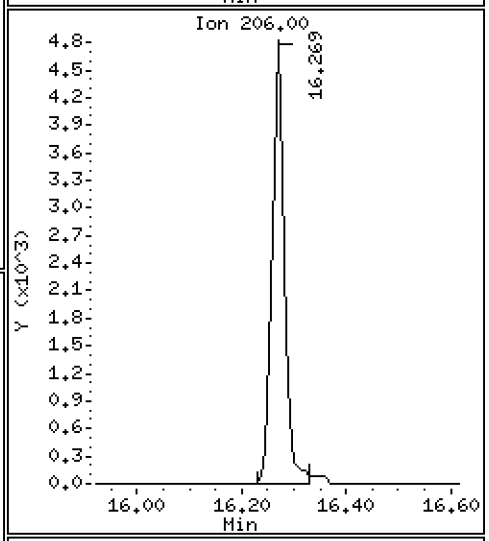


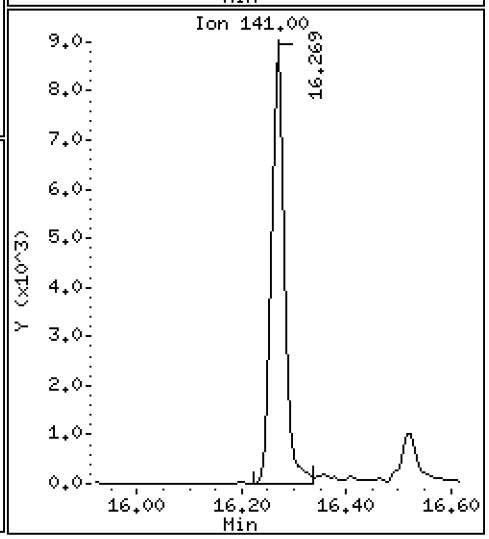












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

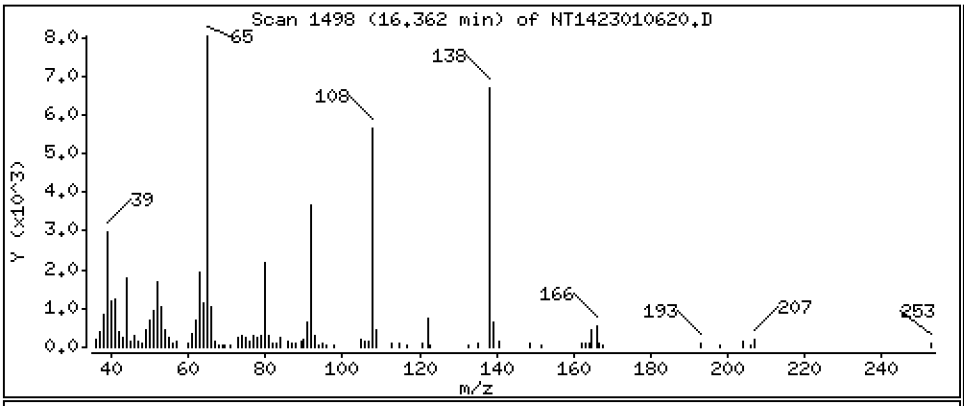
Operator: VTS

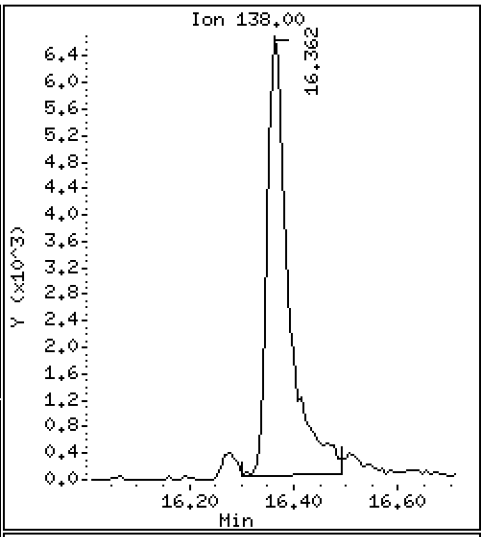
Column phase: ZB-5msi

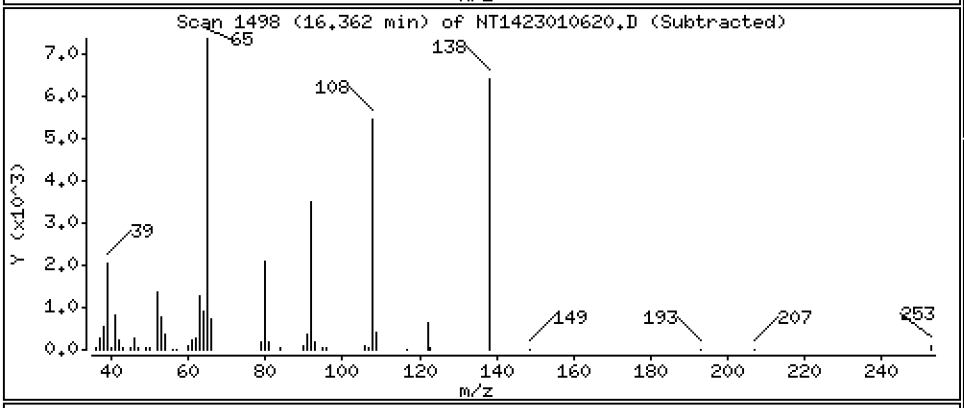
Column diameter: 0.25

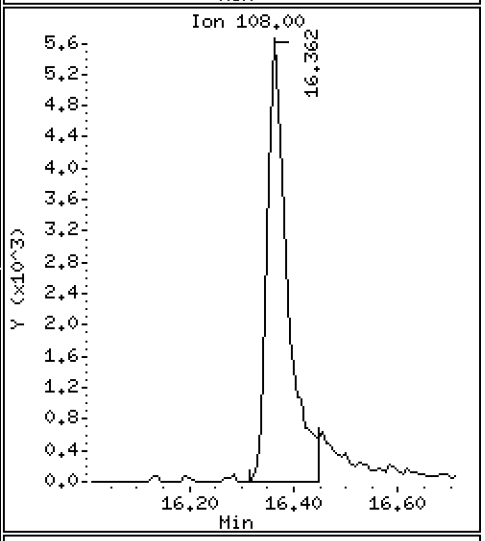
52 4-Nitroaniline

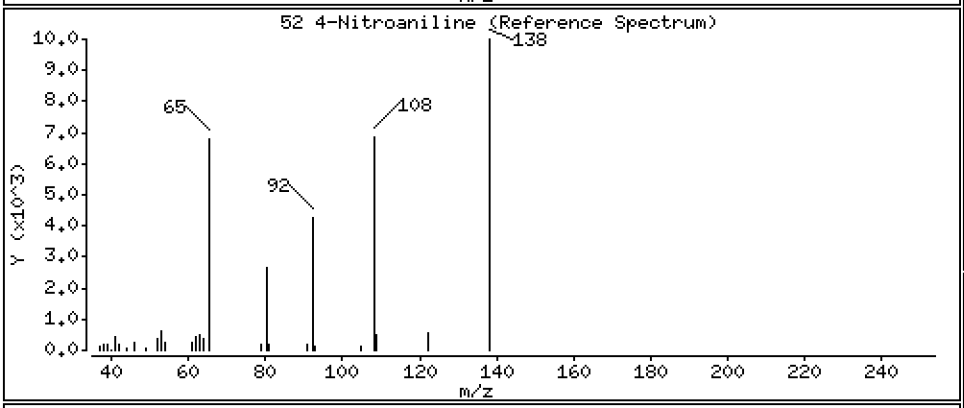
Concentration: 0.7544 ug/mL

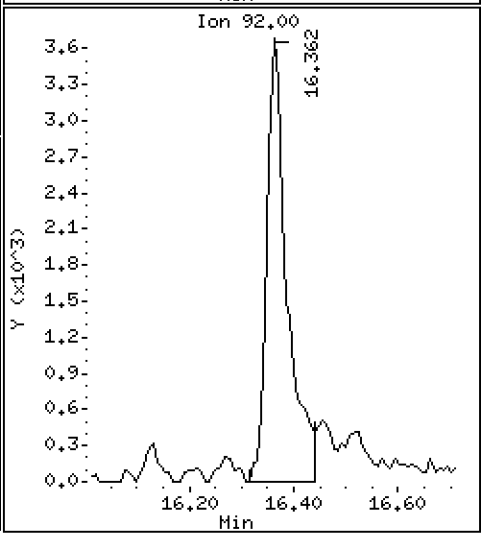


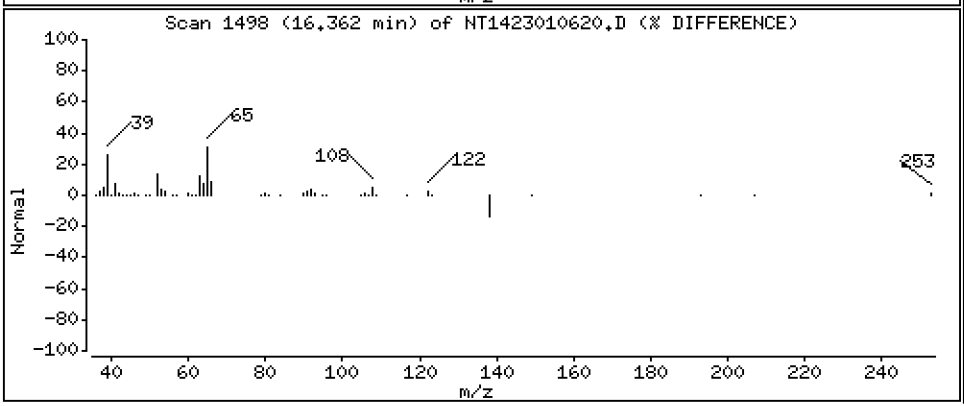












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

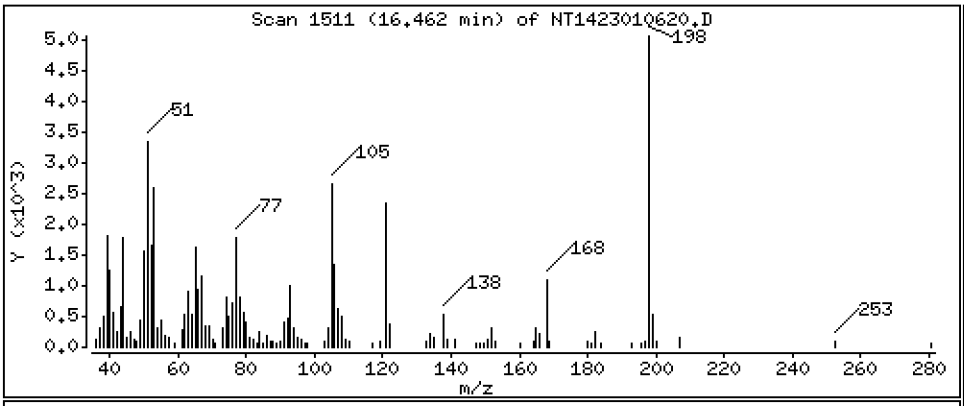
Operator: VTS

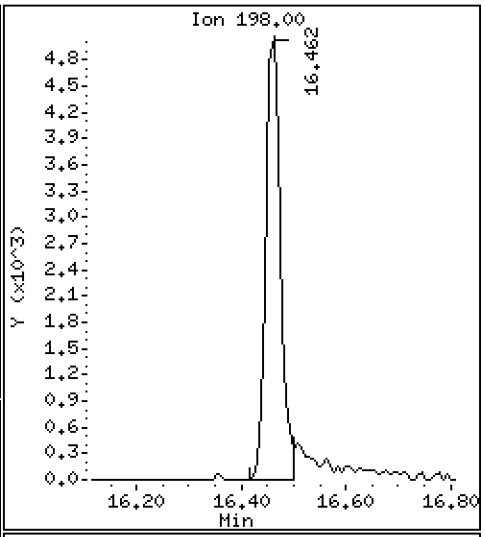
Column phase: ZB-5msi

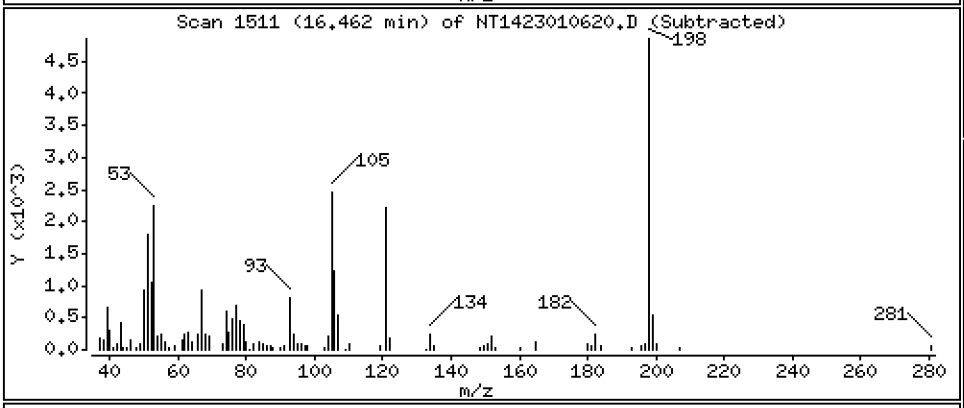
Column diameter: 0.25

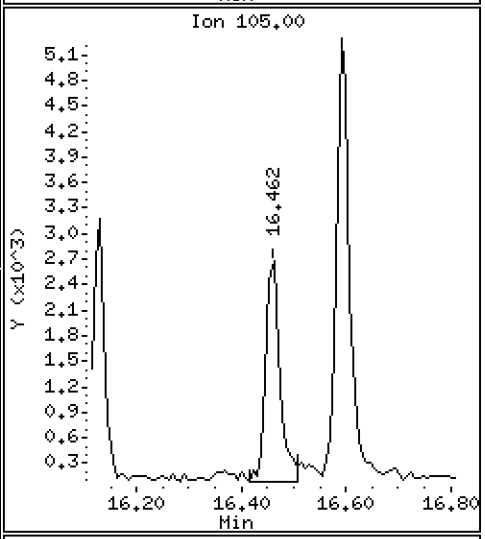
53 4,6-Dinitro-2-methylphenol

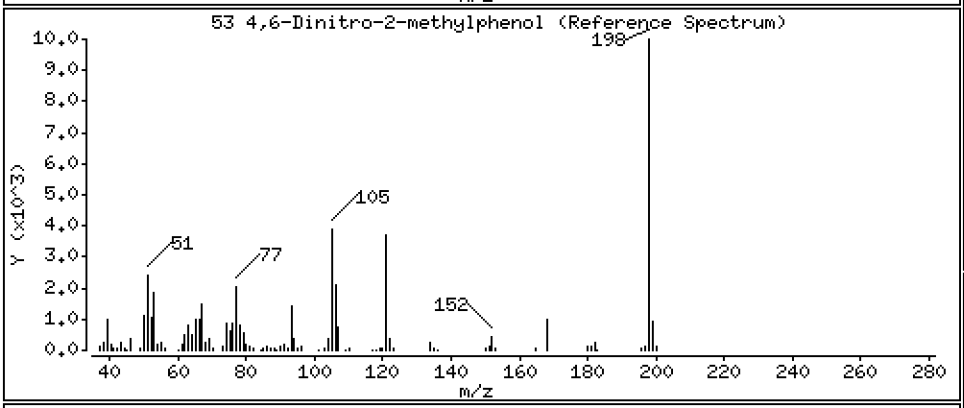
Concentration: 0.5046 ug/mL

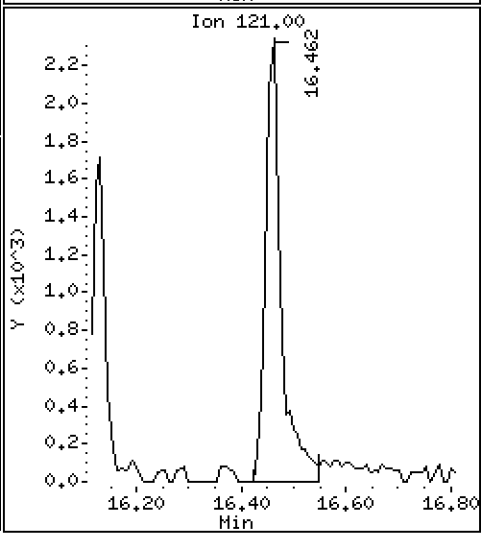


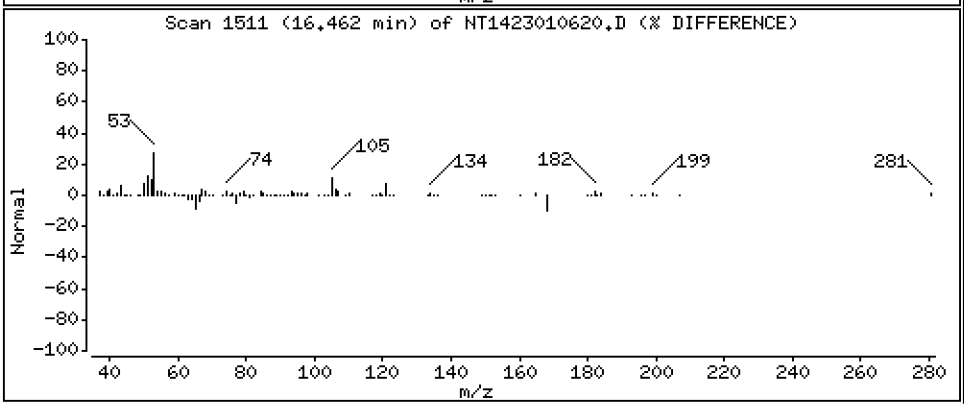












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

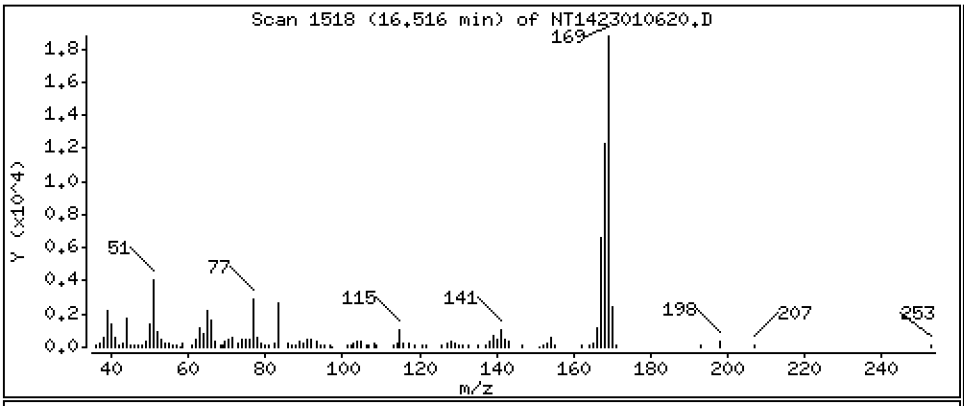
Operator: VTS

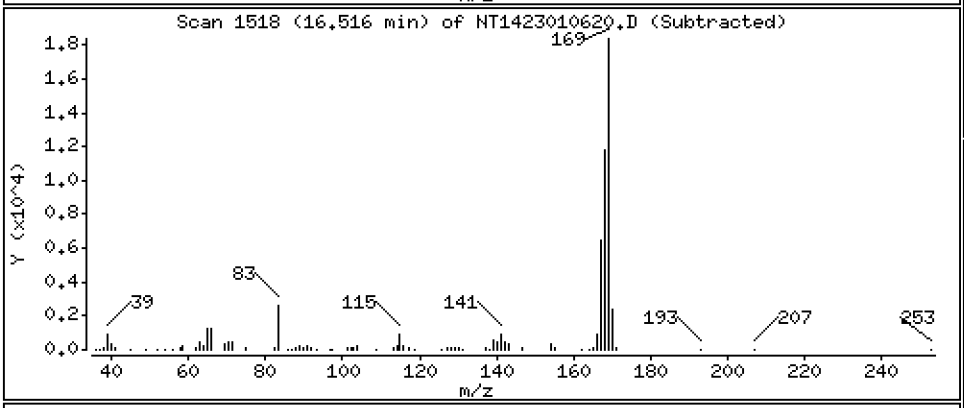
Column phase: ZB-5msi

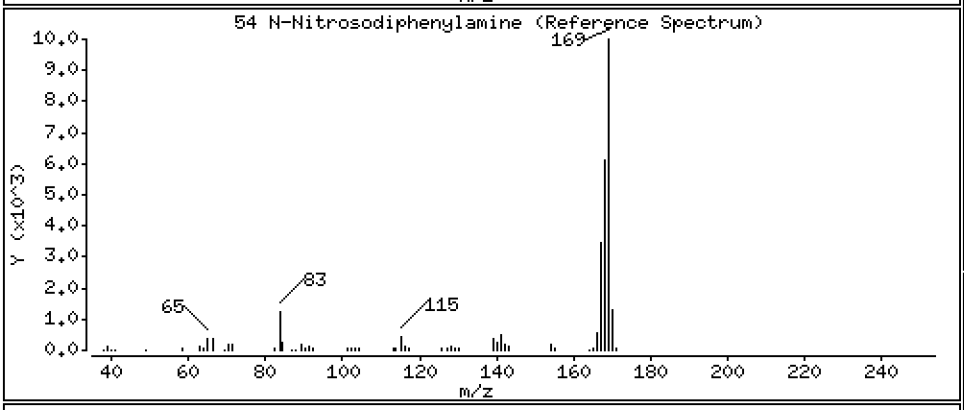
Column diameter: 0.25

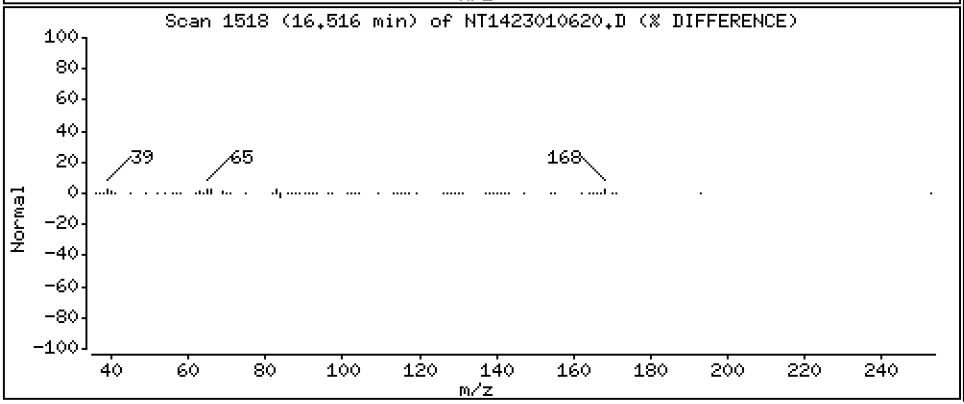
54 N-Nitrosodiphenylamine

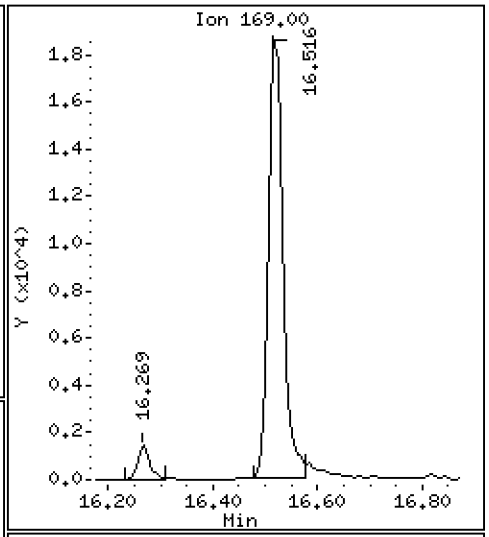
Concentration: 0.4445 ug/mL

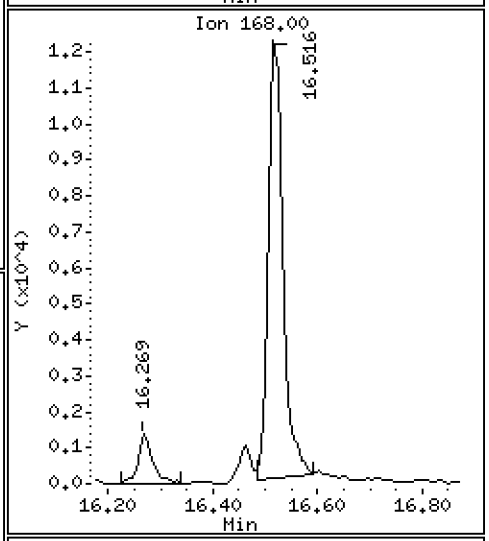


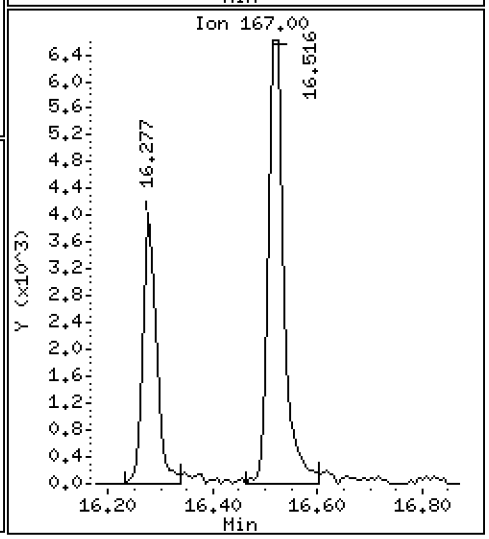












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

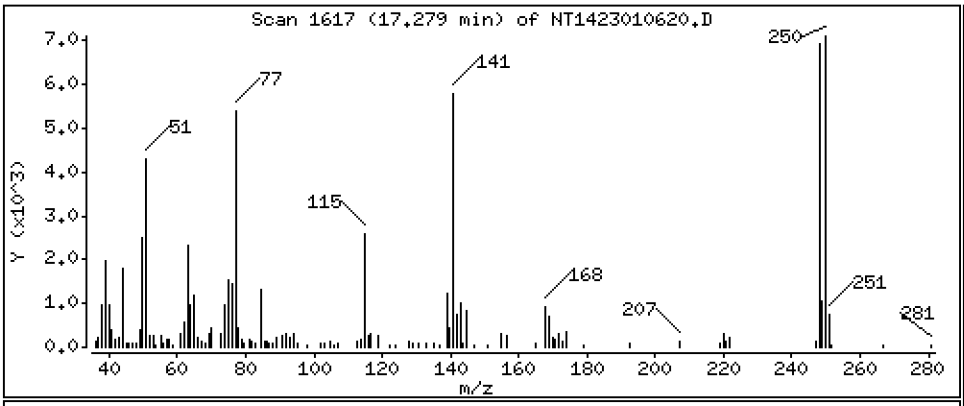
Operator: VTS

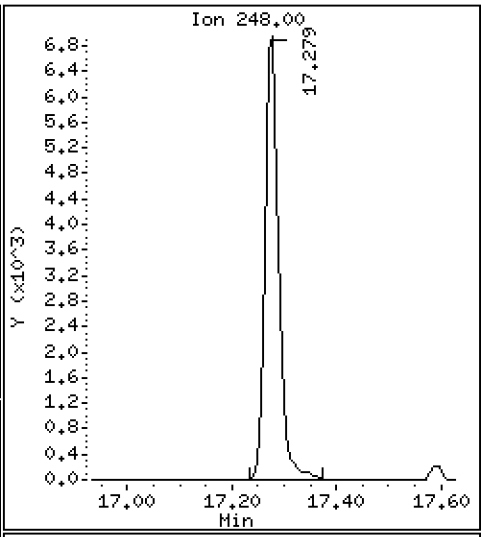
Column phase: ZB-5msi

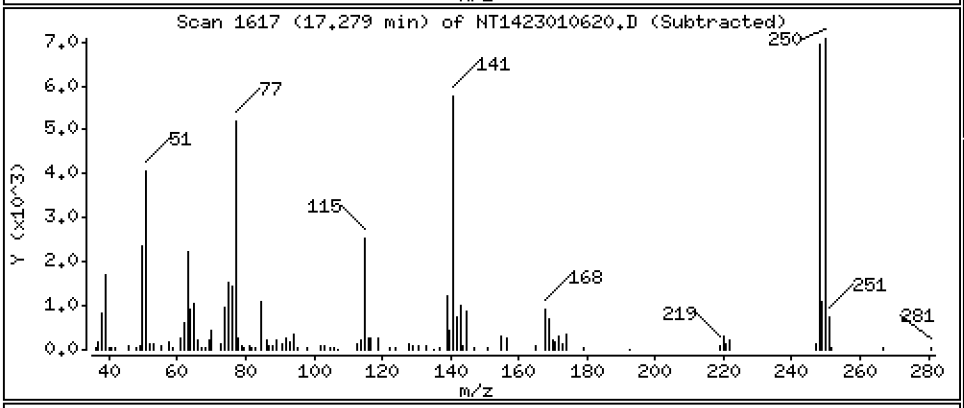
Column diameter: 0.25

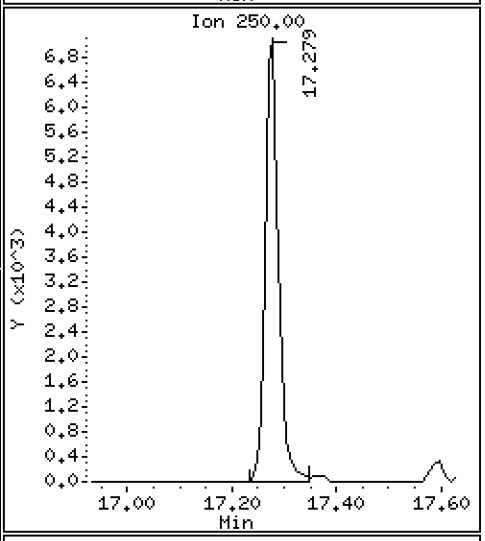
56 4-Bromophenyl-phenylether

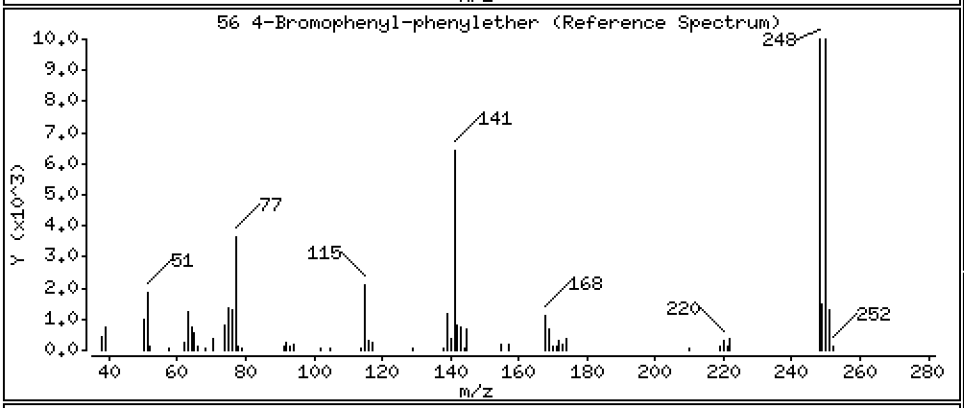
Concentration: 0.4322 ug/mL

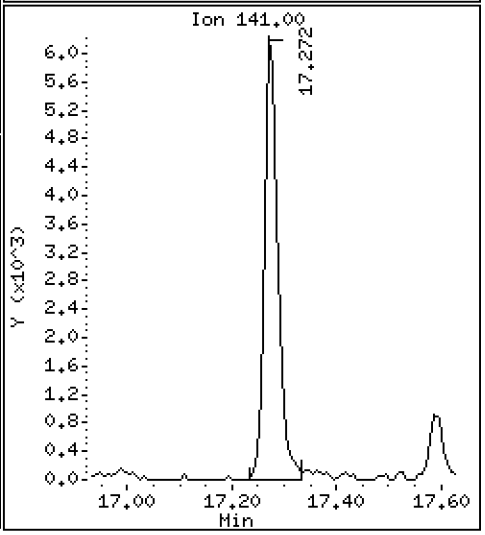


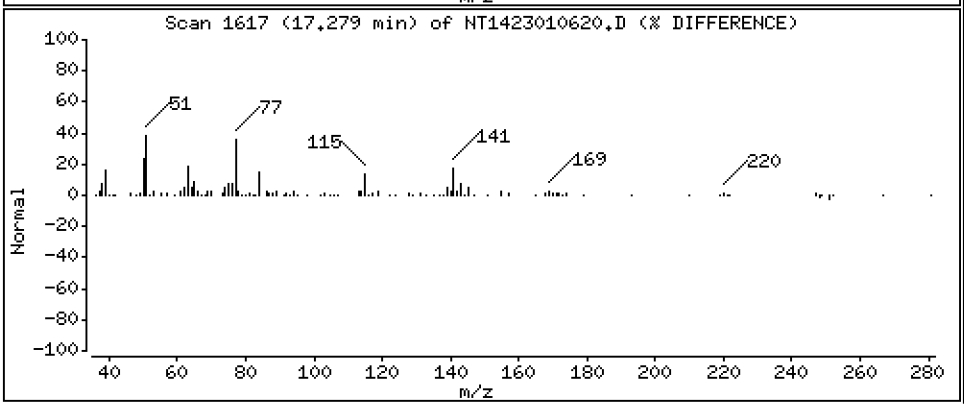












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

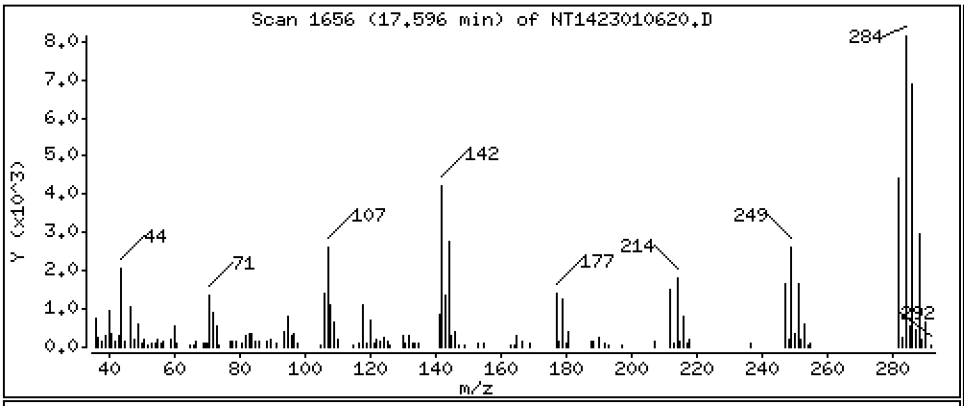
Operator: VTS

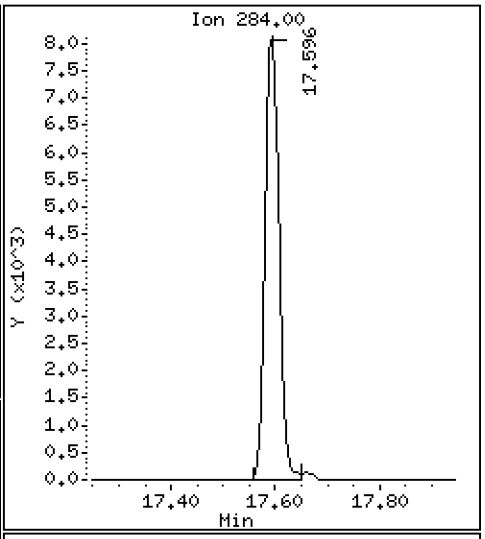
Column phase: ZB-5msi

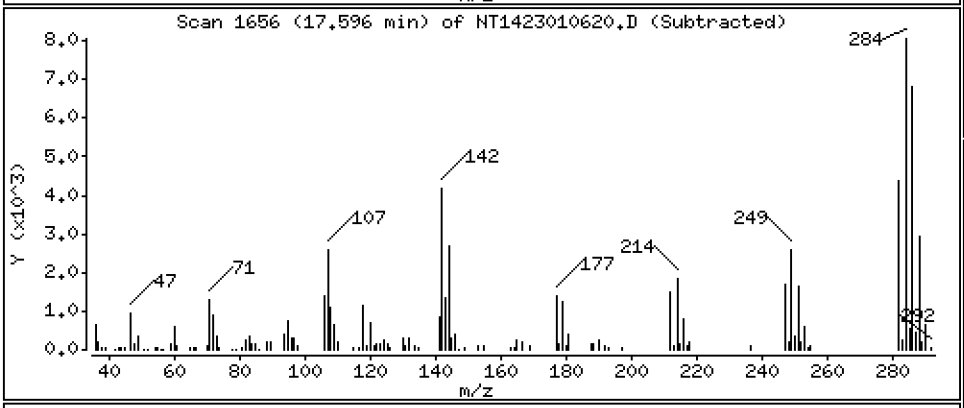
Column diameter: 0.25

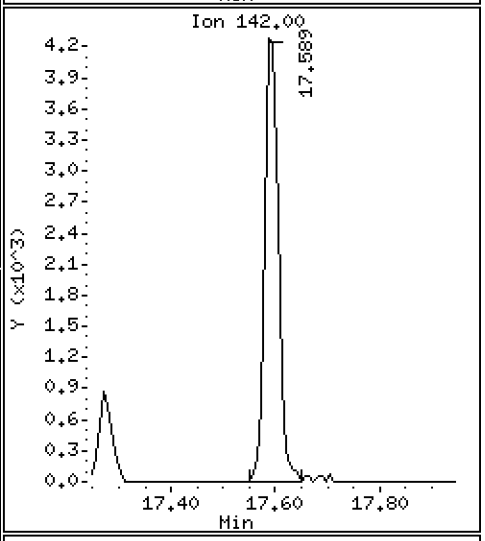
57 Hexachlorobenzene

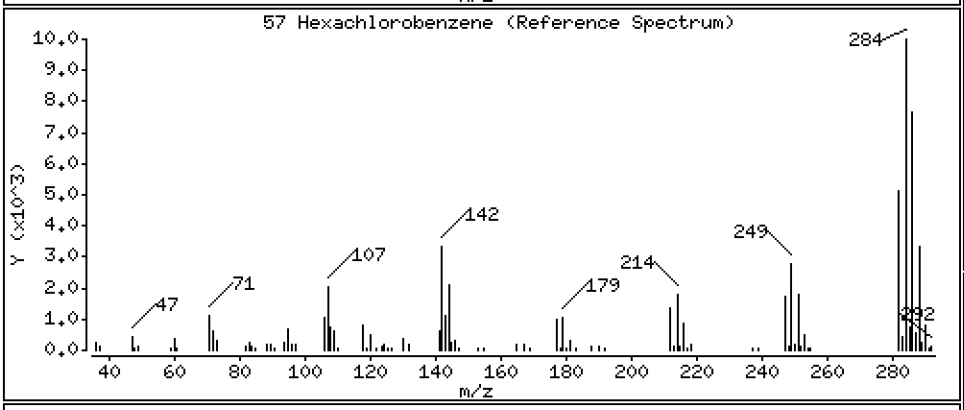
Concentration: 0.4543 ug/mL

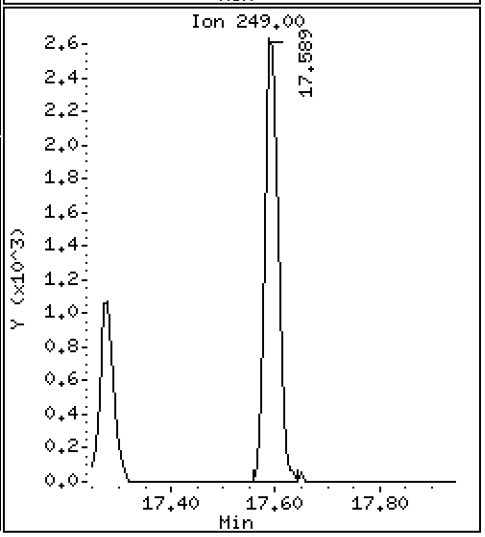


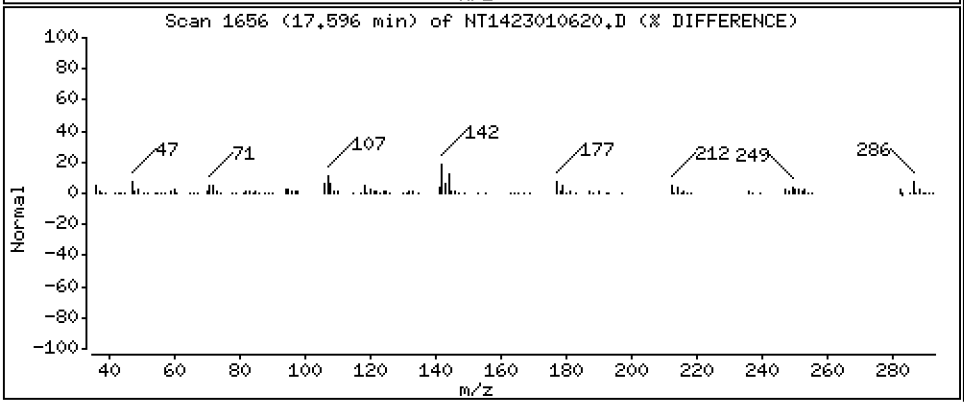












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

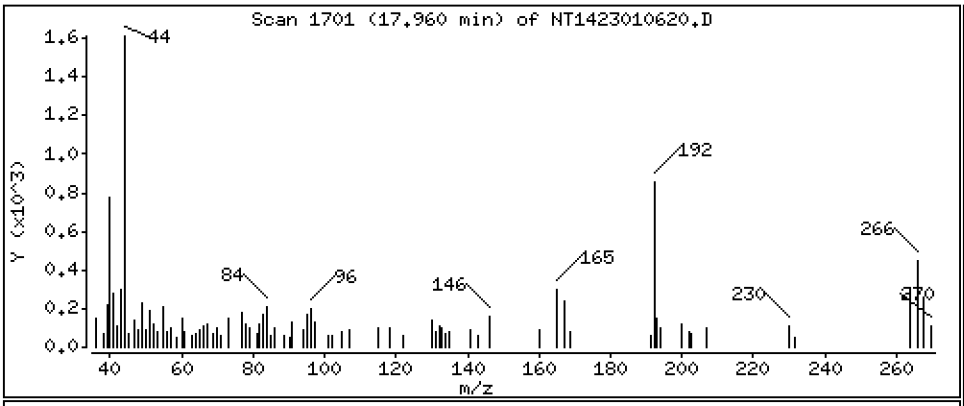
Operator: VTS

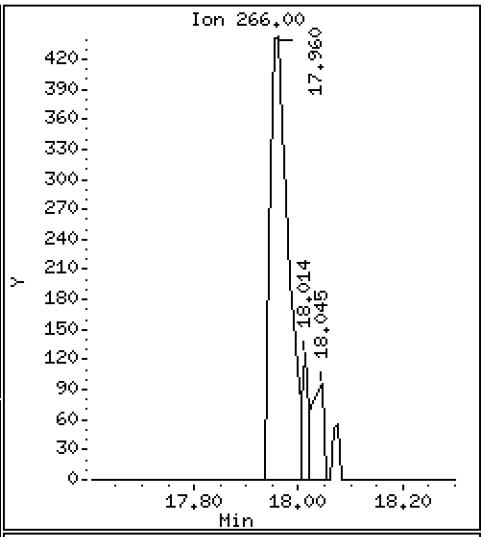
Column phase: ZB-5msi

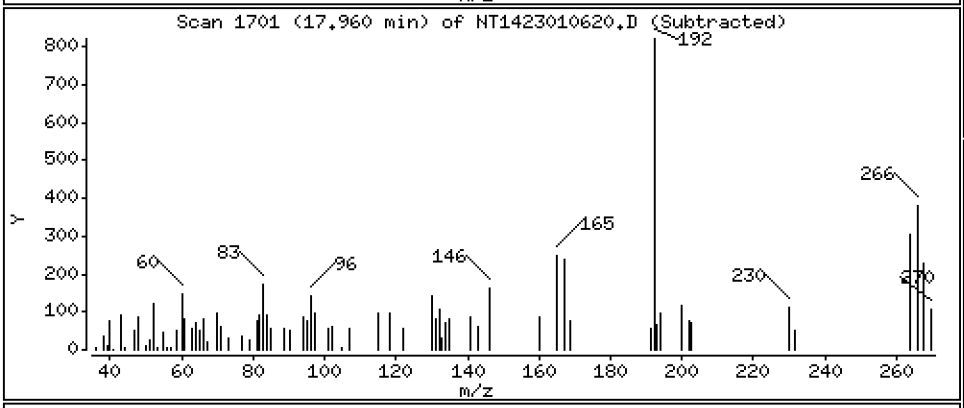
Column diameter: 0.25

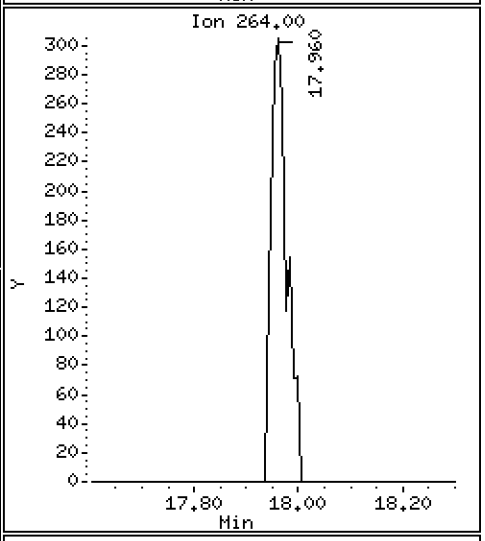
58 Pentachlorophenol

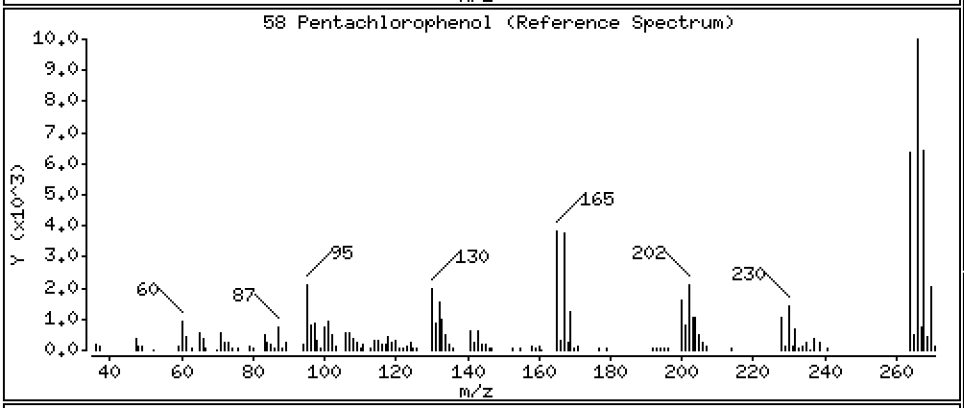
Concentration: 0.07732 ug/mL

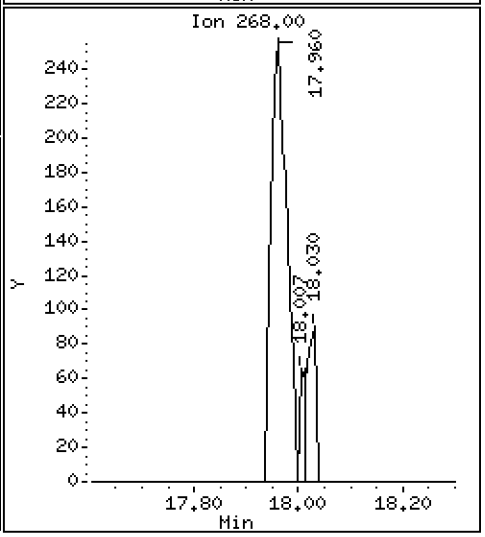


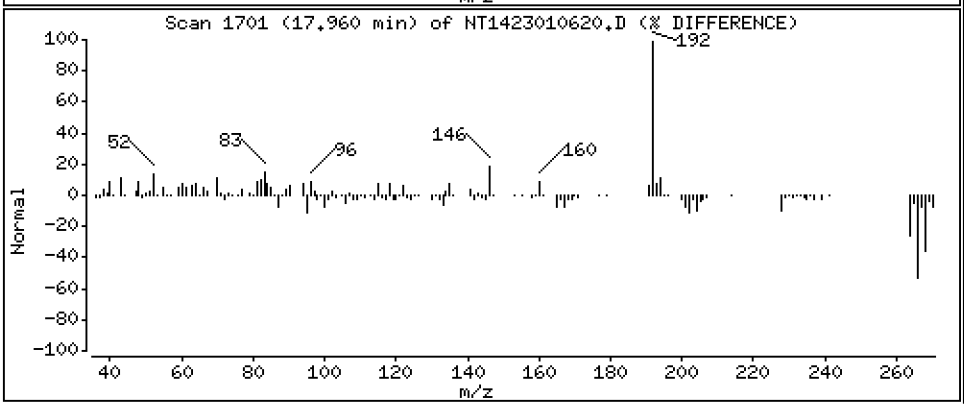












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

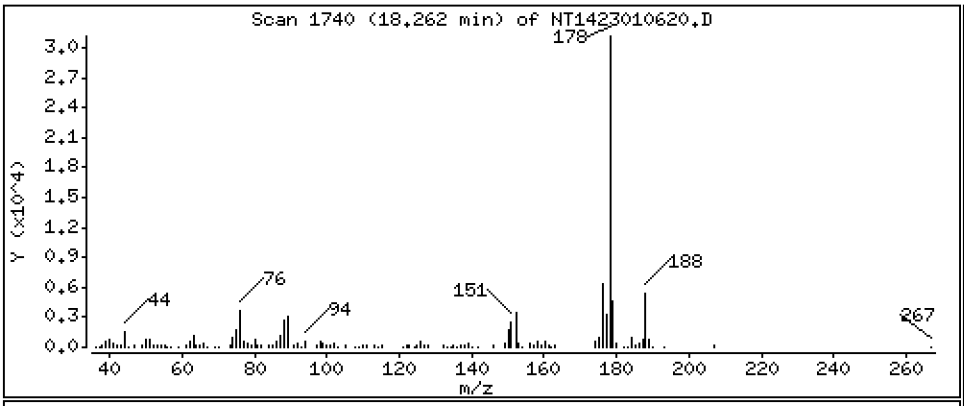
Operator: VTS

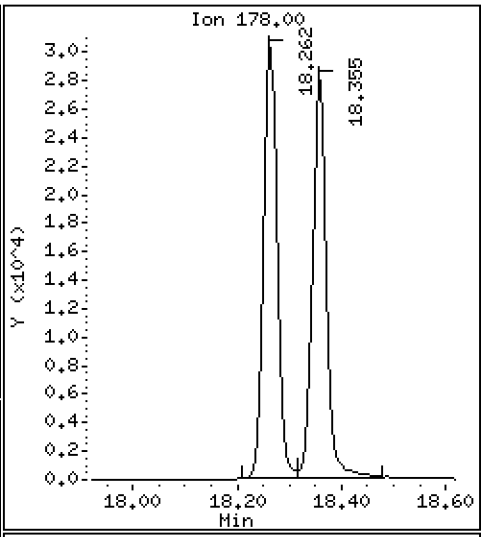
Column phase: ZB-5msi

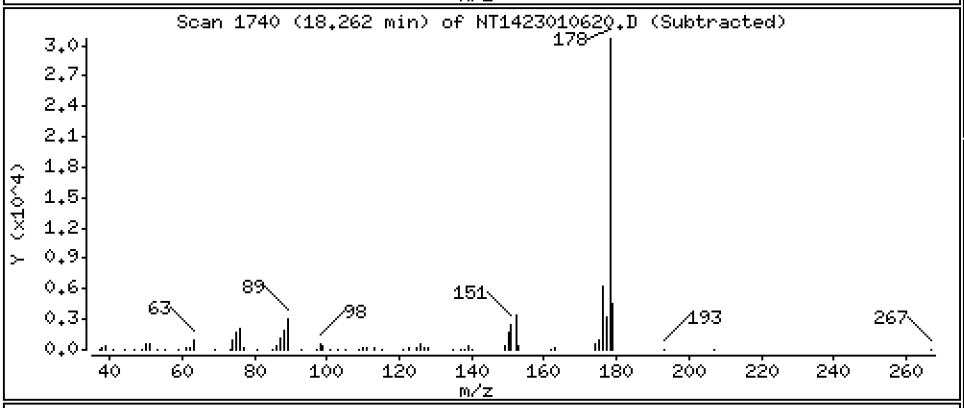
Column diameter: 0.25

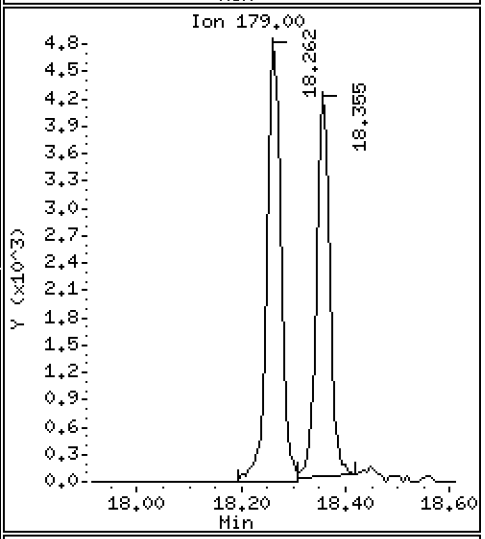
60 Phenanthrene

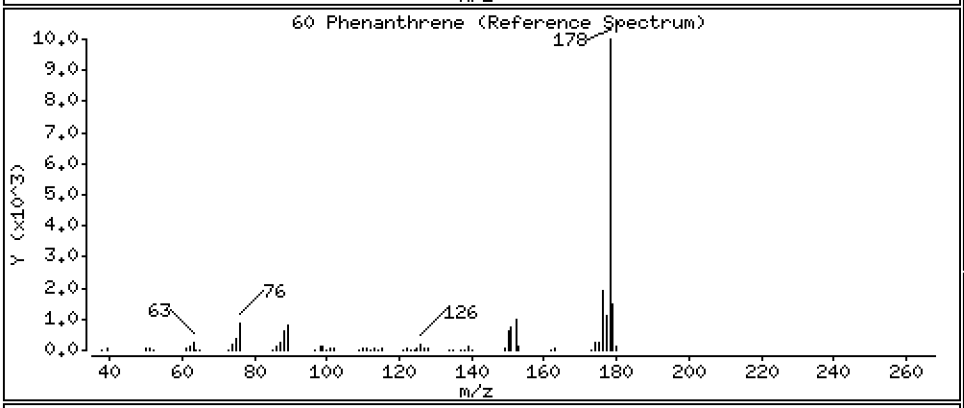
Concentration: 0.4518 ug/mL

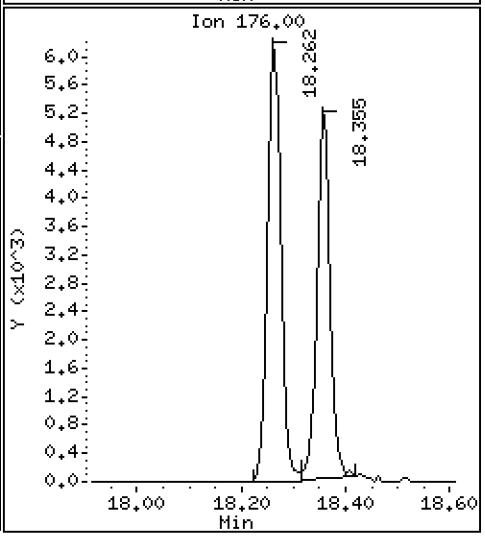


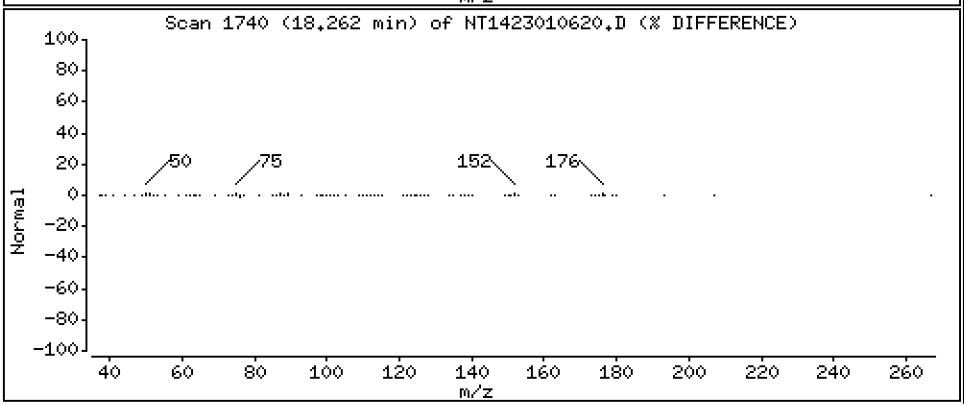












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

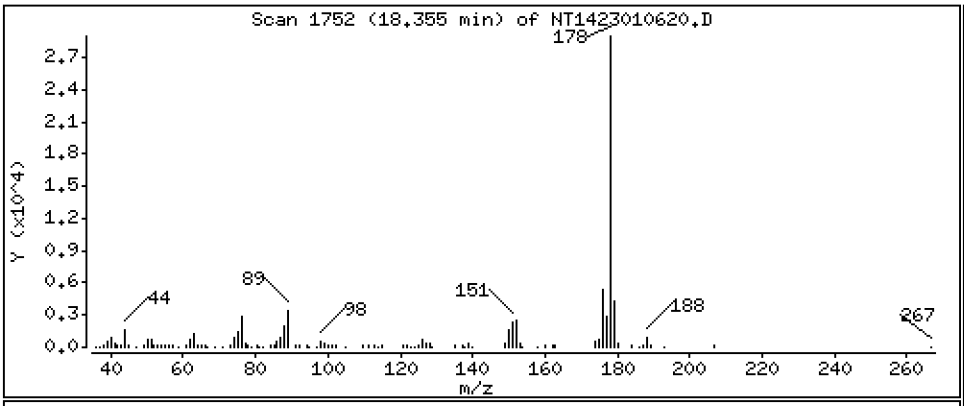
Operator: VTS

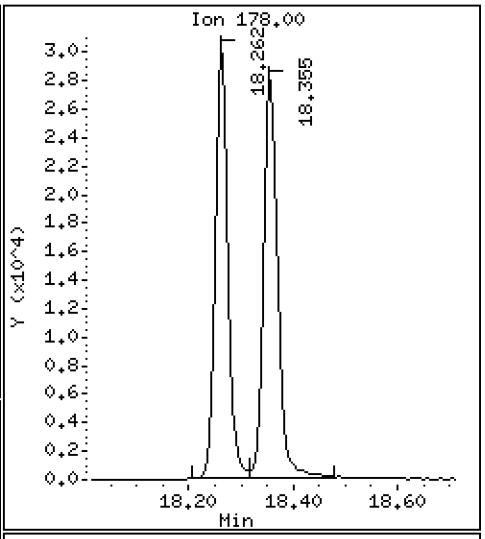
Column phase: ZB-5msi

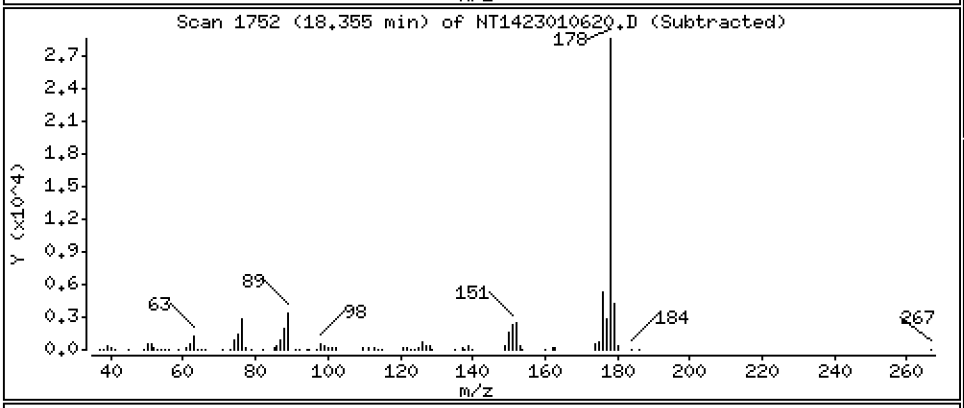
Column diameter: 0.25

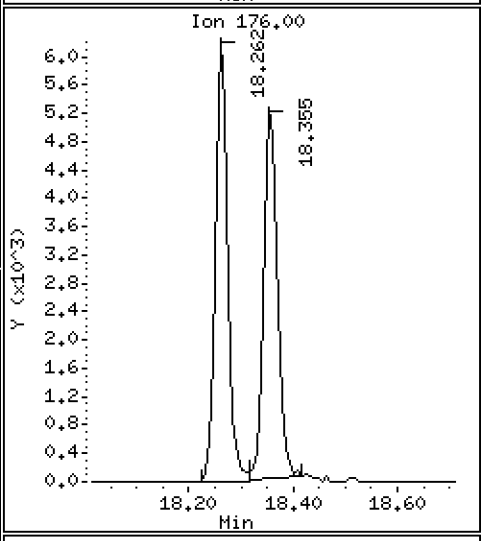
61 Anthracene

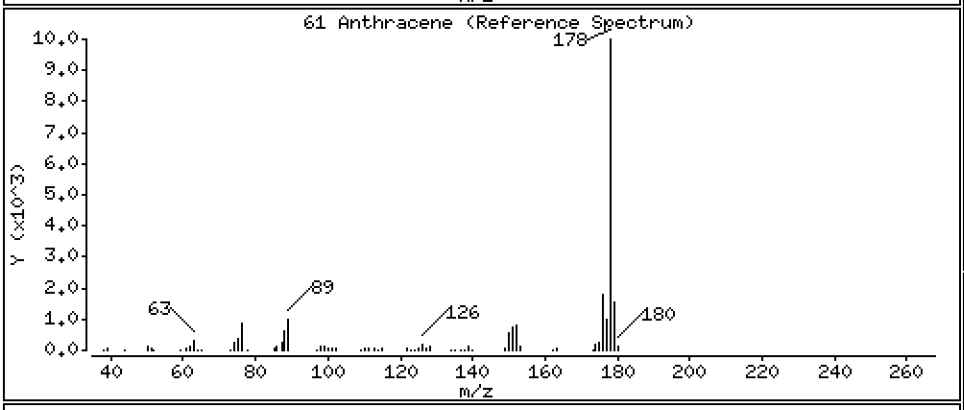
Concentration: 0.4608 ug/mL

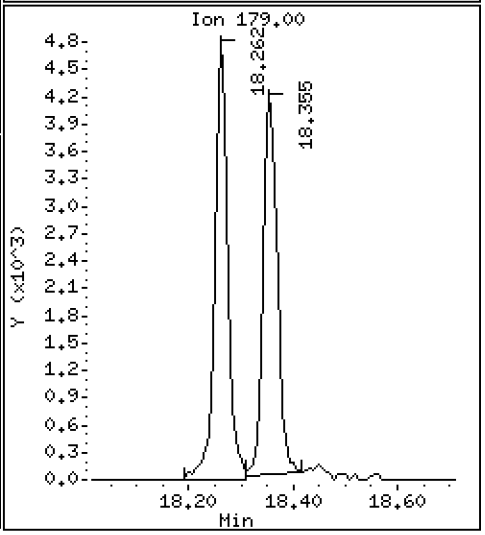


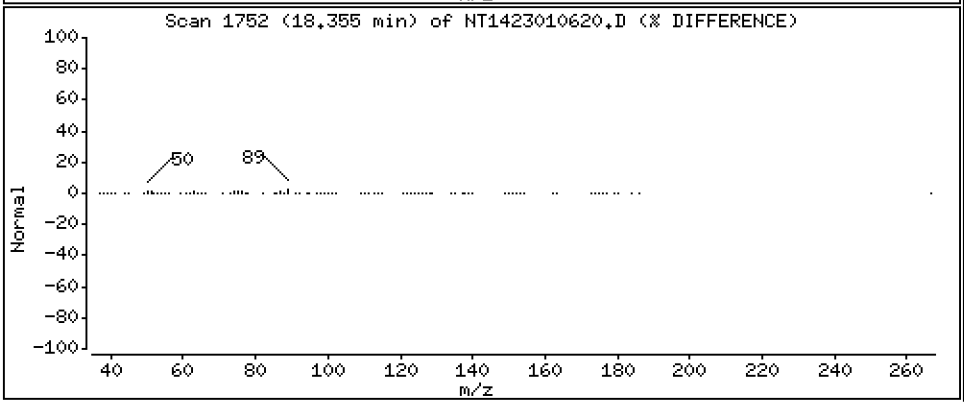












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

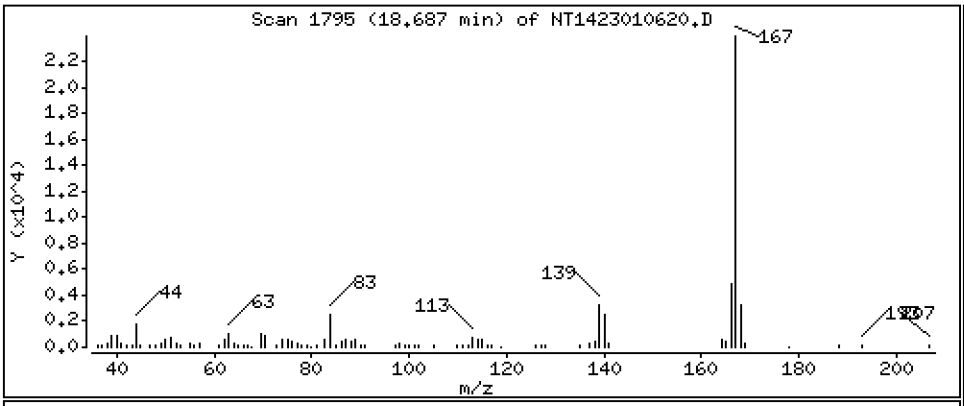
Operator: VTS

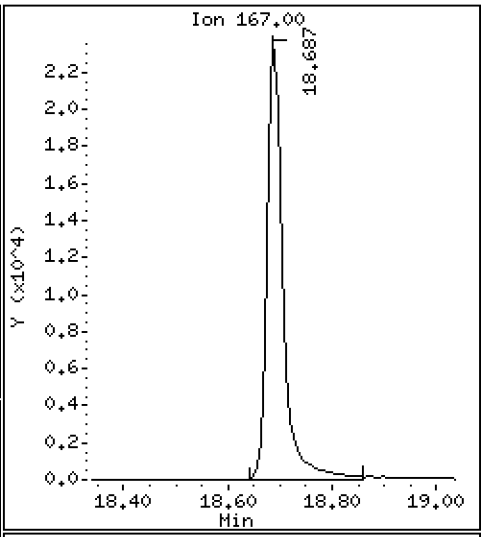
Column phase: ZB-5msi

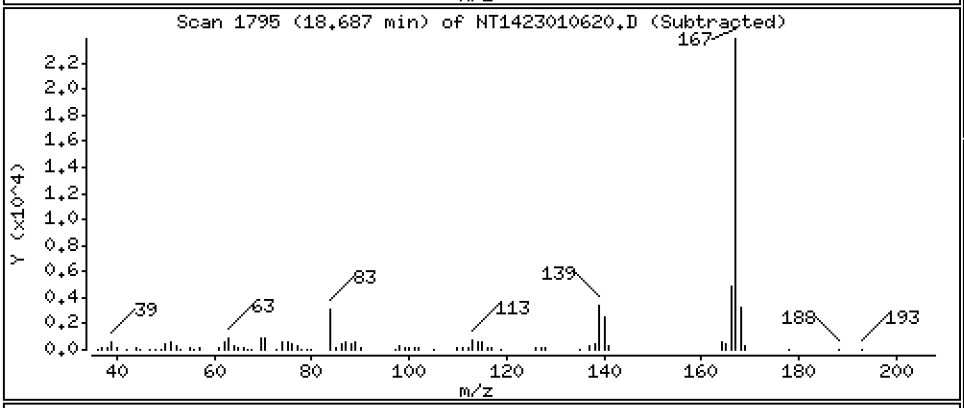
Column diameter: 0.25

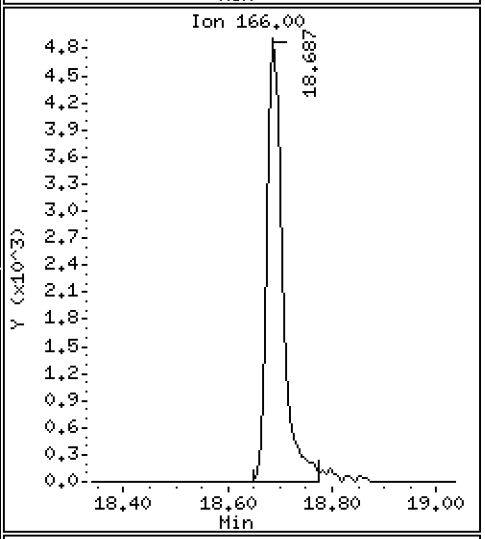
62 Carbazole

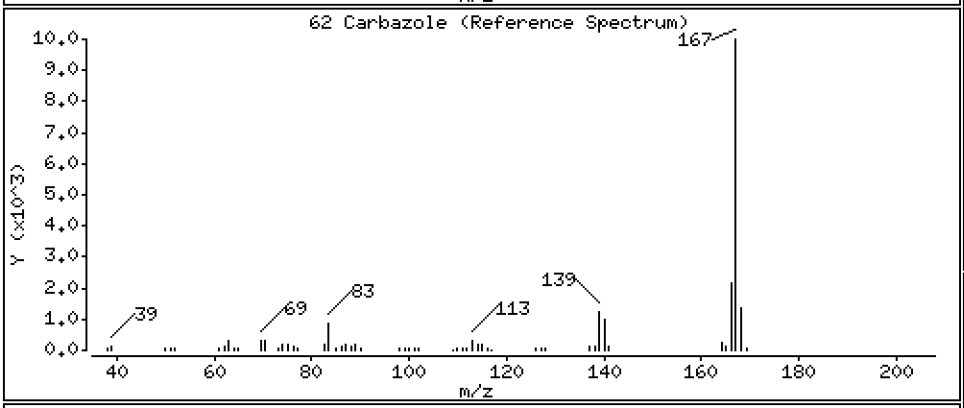
Concentration: 0.4493 ug/mL

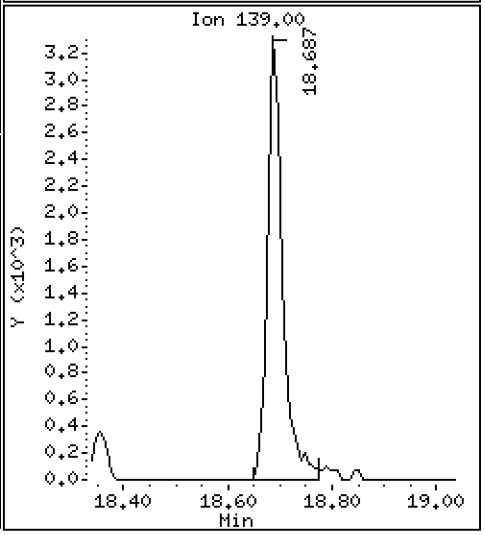


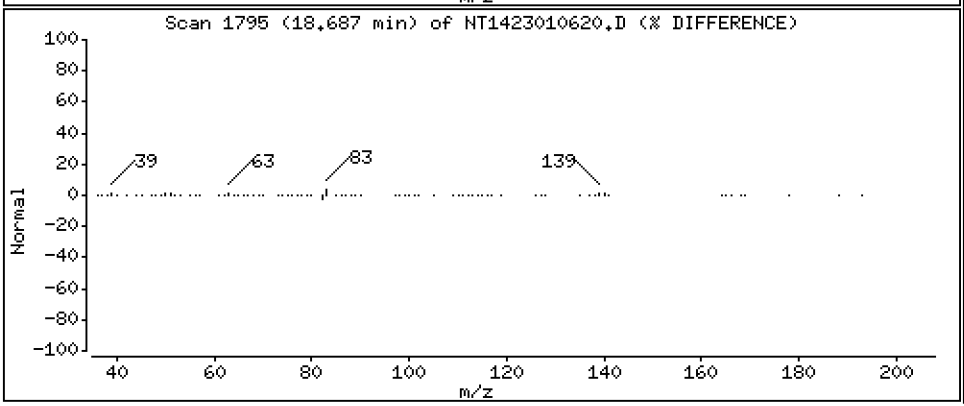












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

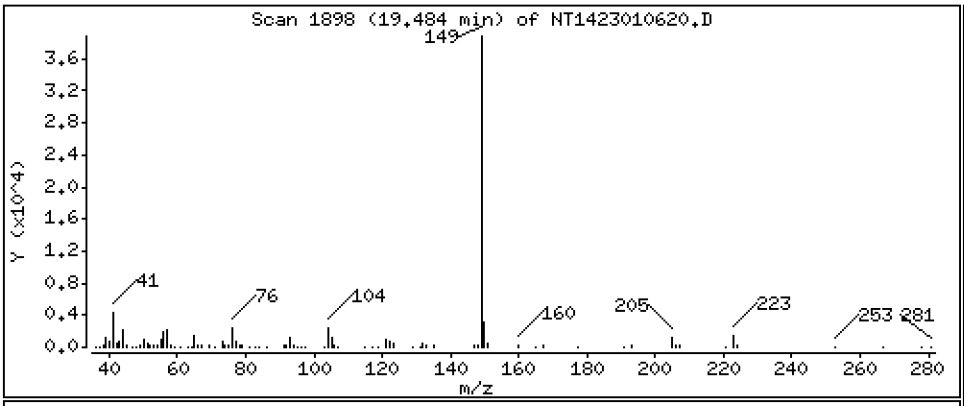
Operator: VTS

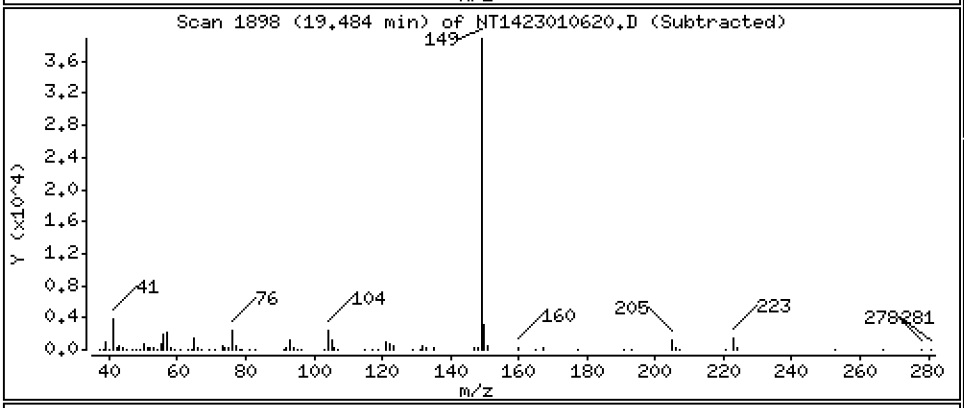
Column phase: ZB-5msi

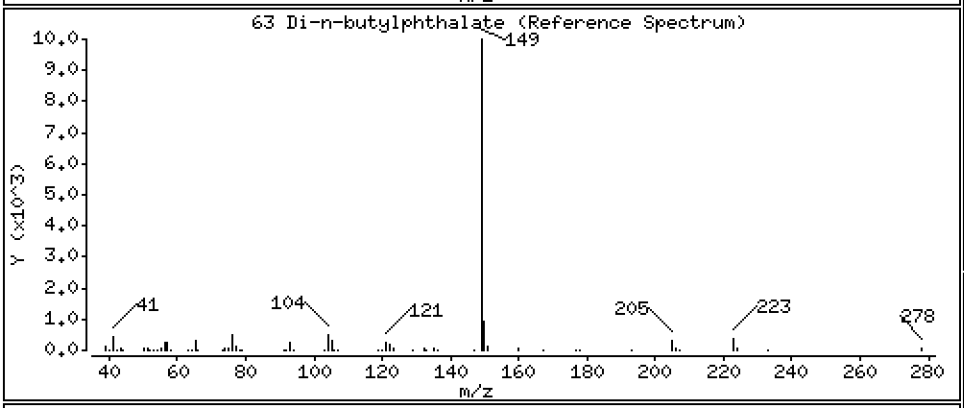
Column diameter: 0.25

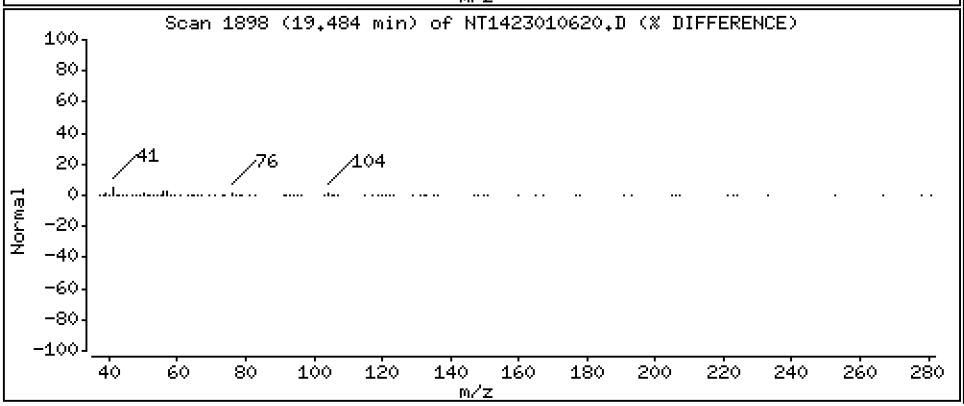
63 Di-n-butylphthalate

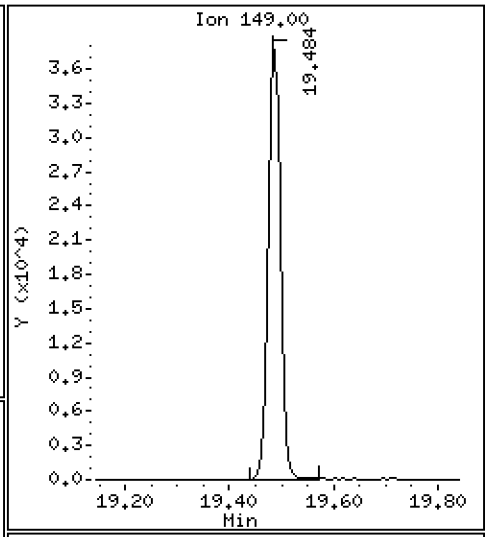
Concentration: 0.4800 ug/mL

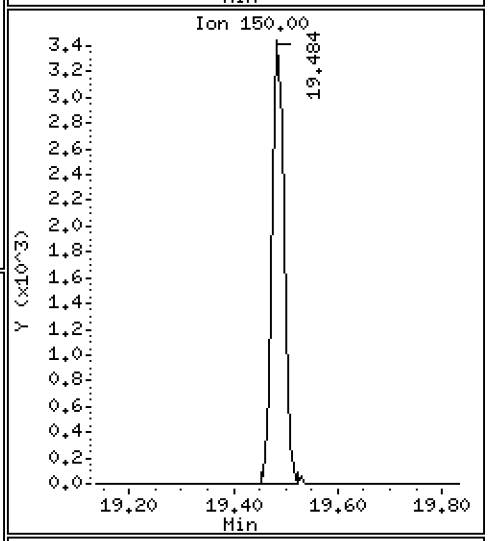


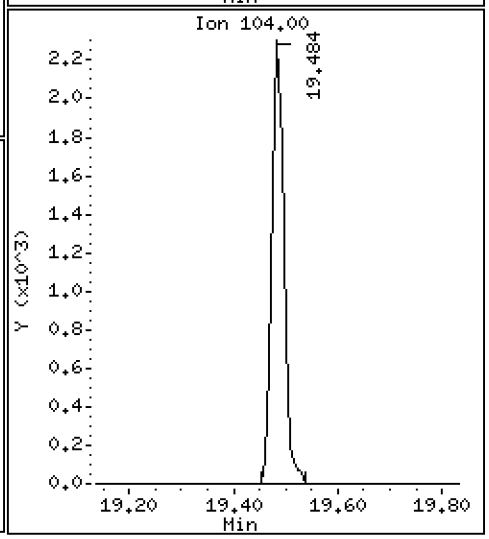












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

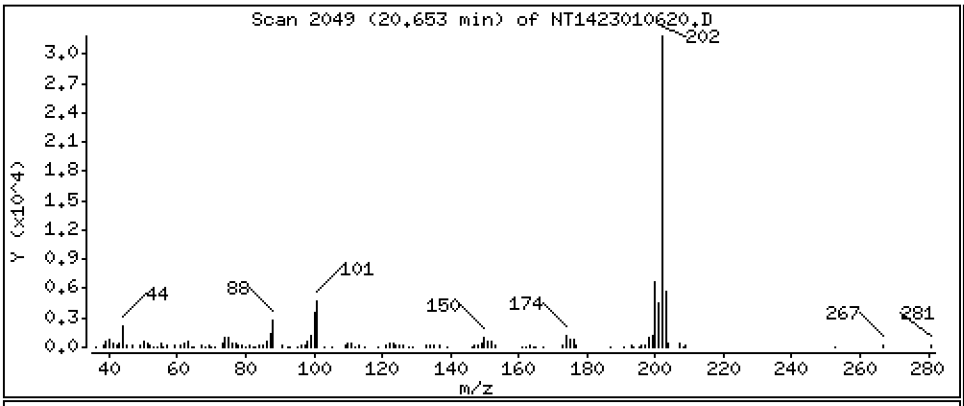
Operator: VTS

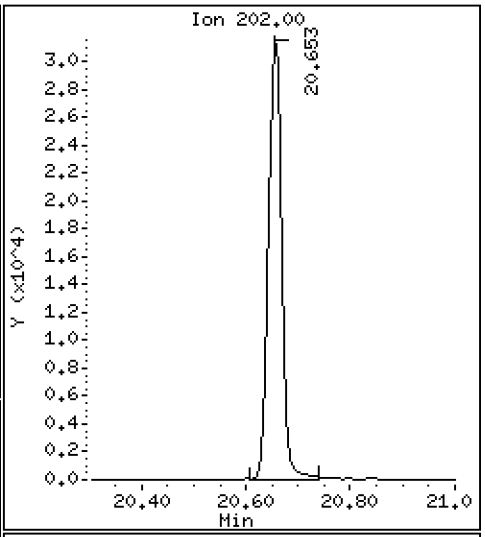
Column phase: ZB-5msi

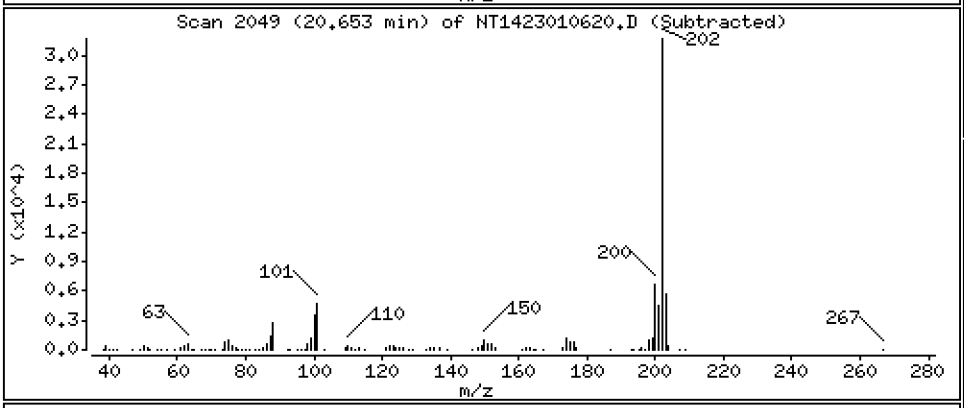
Column diameter: 0.25

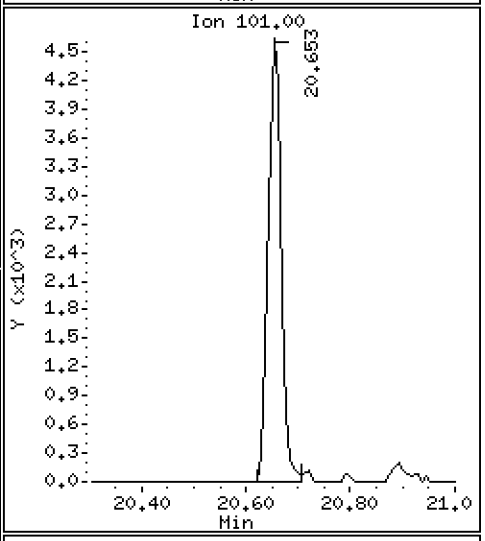
64 Fluoranthene

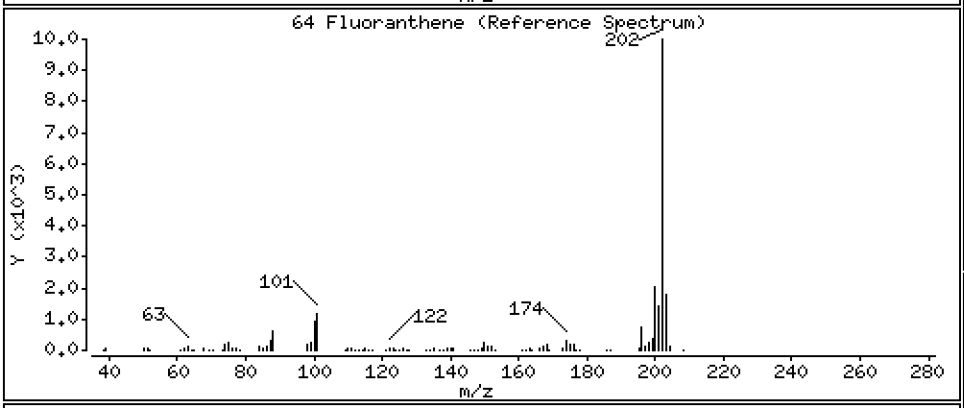
Concentration: 0.4778 ug/mL

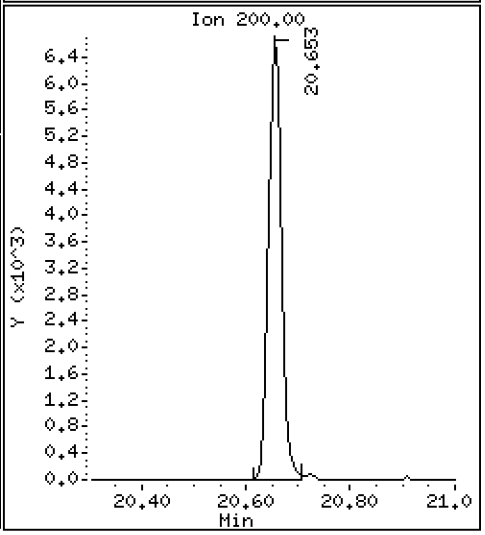


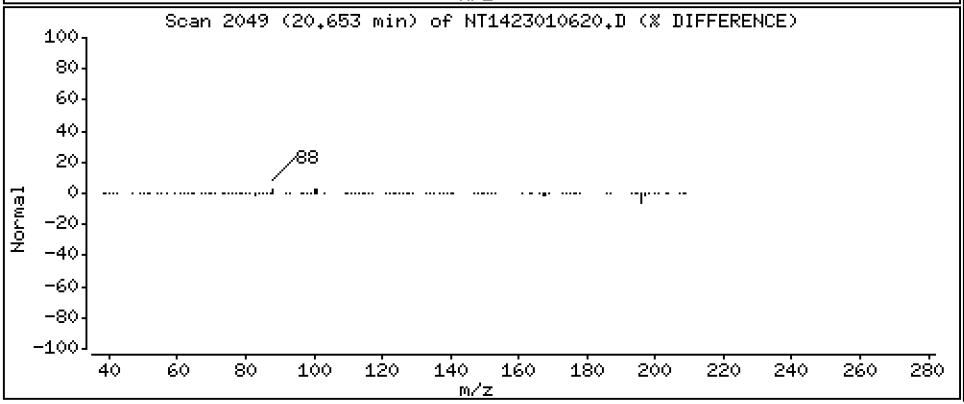












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

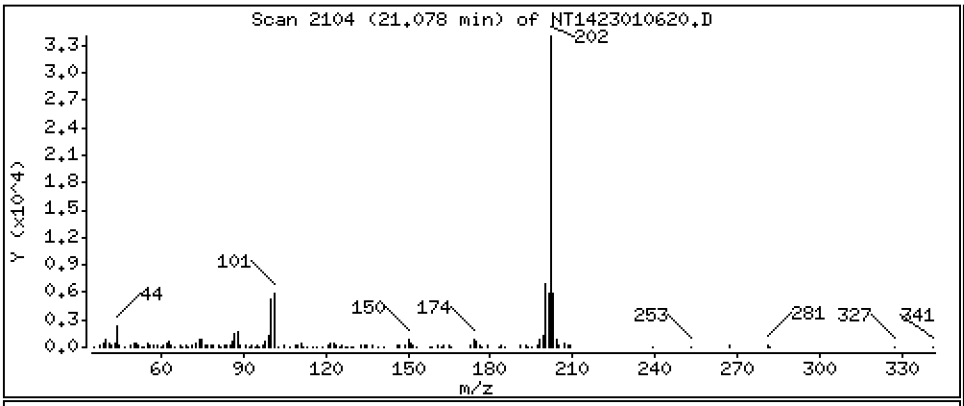
Operator: VTS

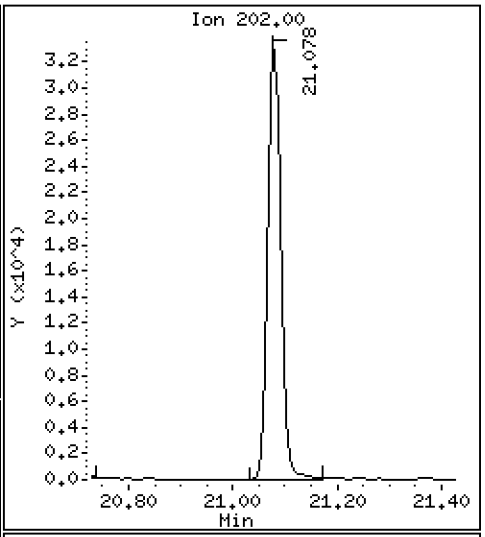
Column phase: ZB-5msi

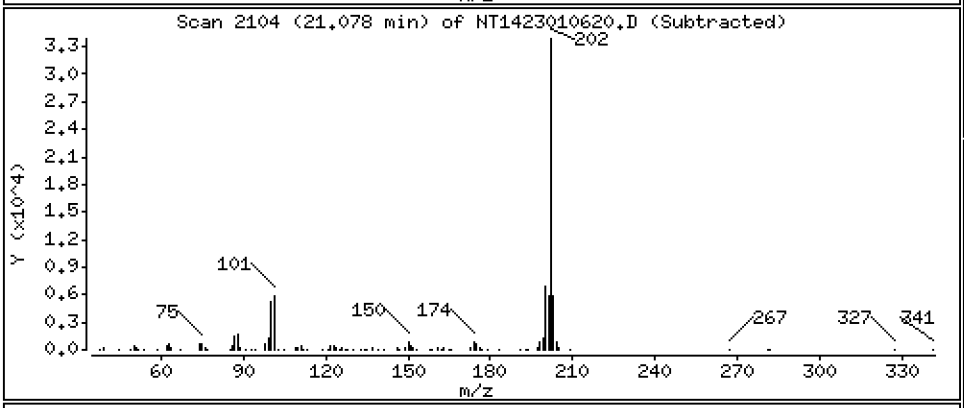
Column diameter: 0.25

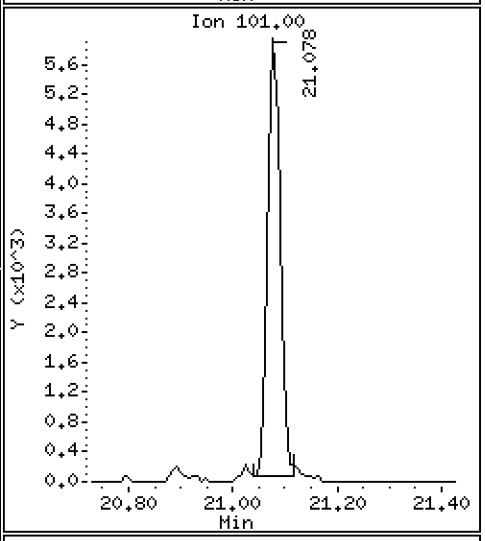
65 Pyrene

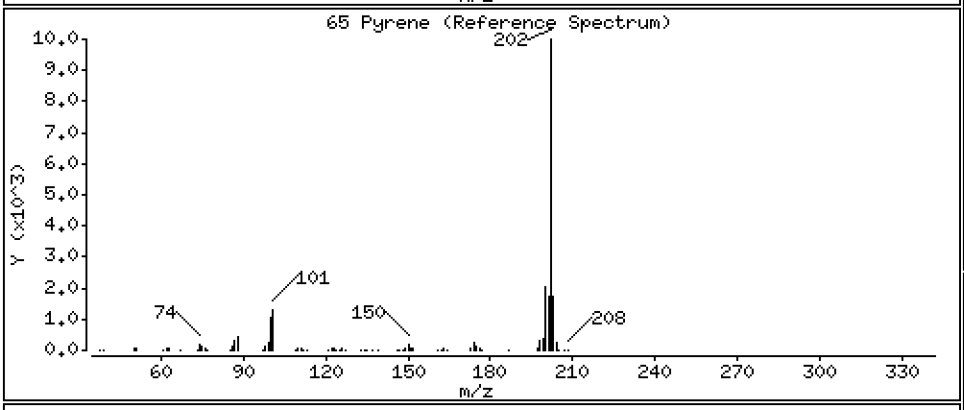
Concentration: 0.4775 ug/mL

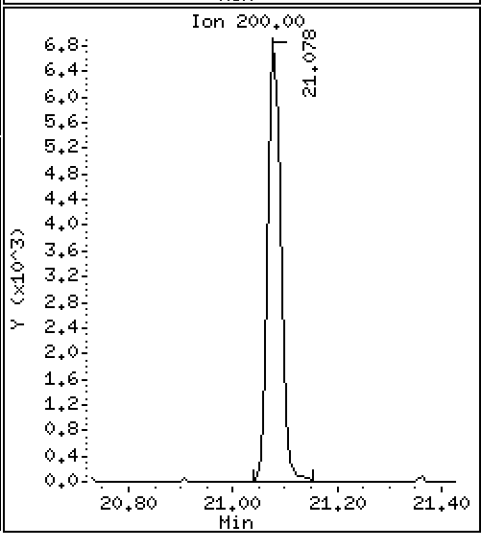


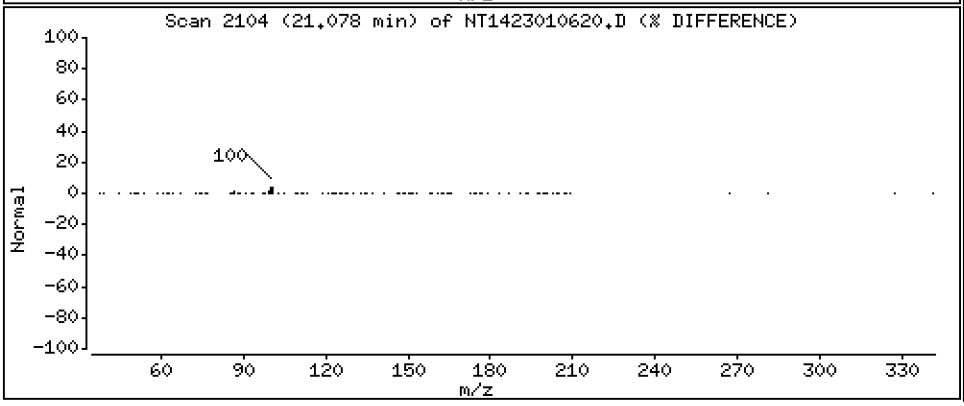












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

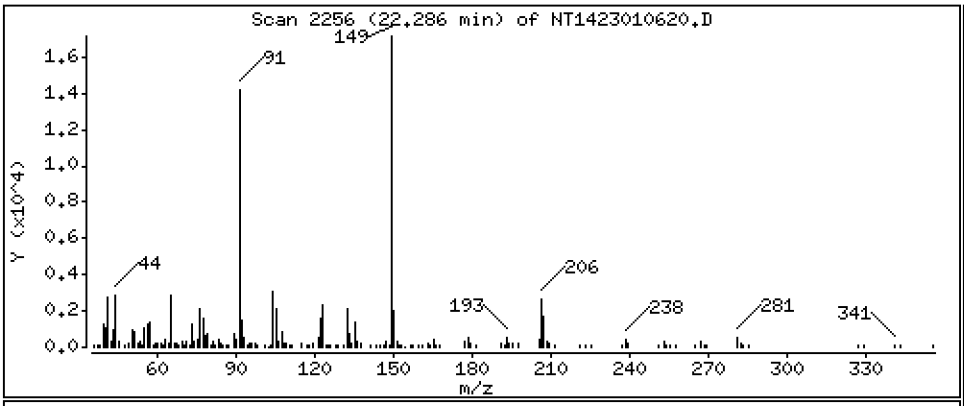
Operator: VTS

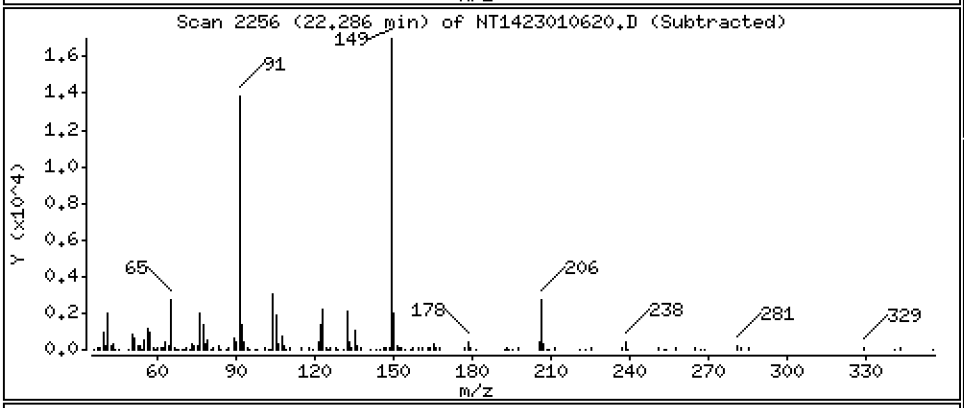
Column phase: ZB-5msi

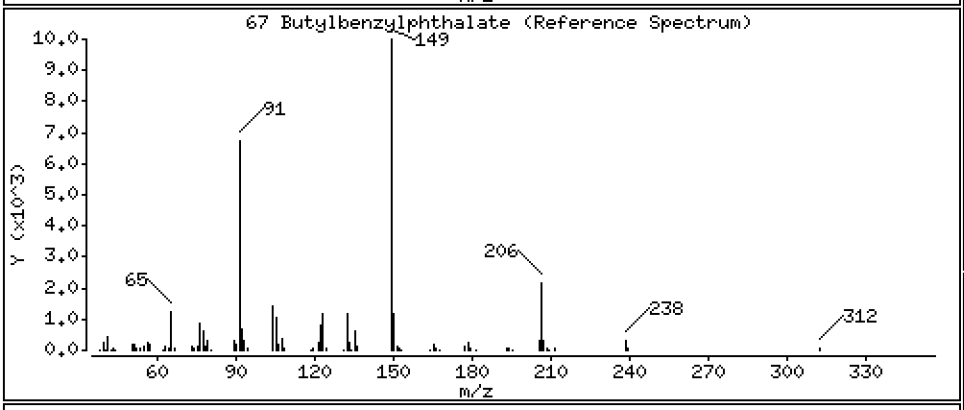
Column diameter: 0.25

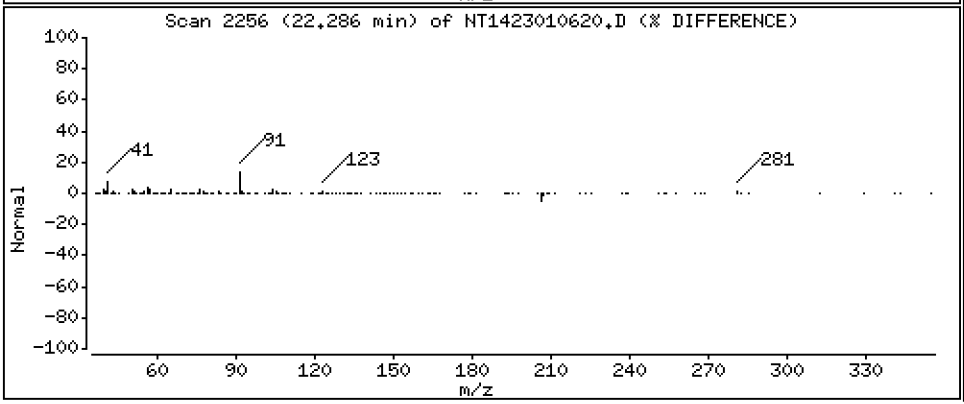
67 Butylbenzylphthalate

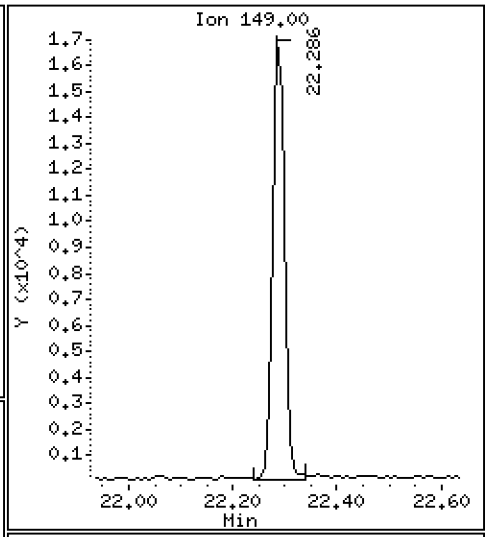
Concentration: 0.5680 ug/mL

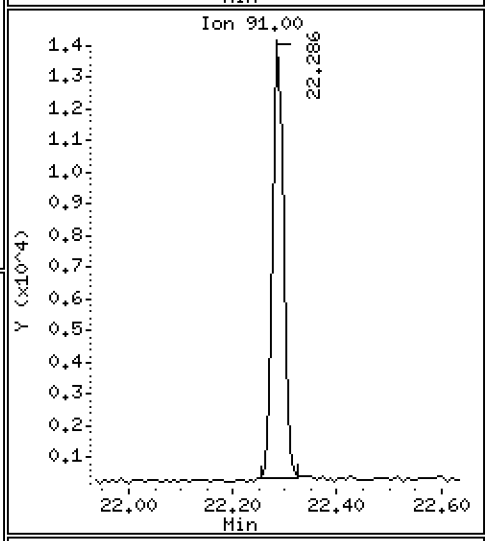


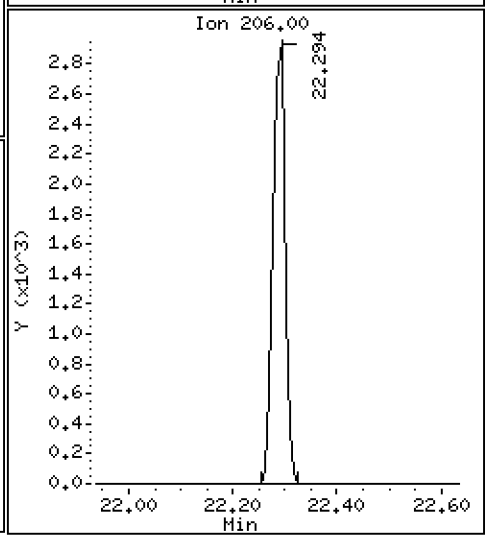












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

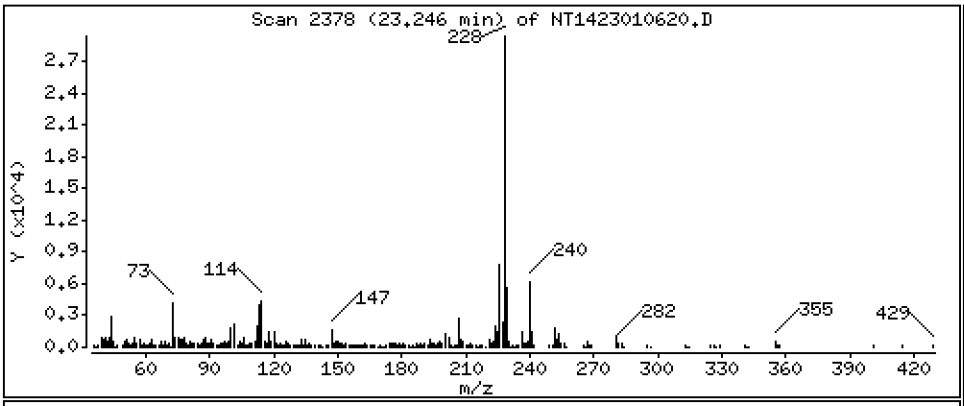
Operator: VTS

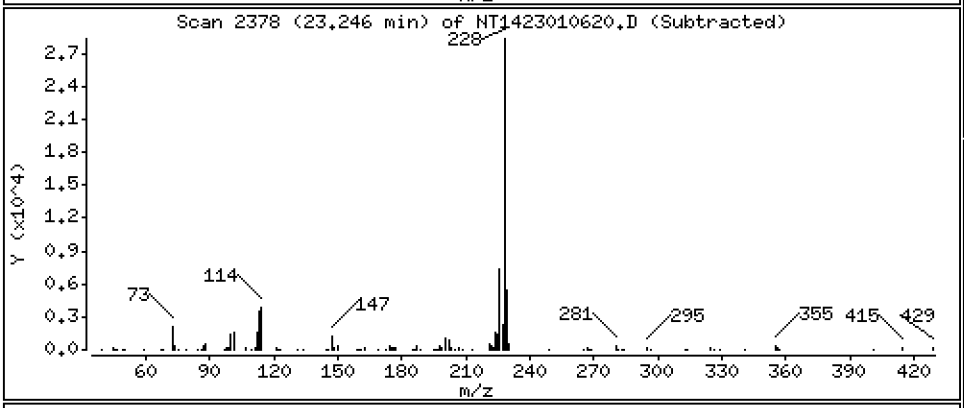
Column phase: ZB-5msi

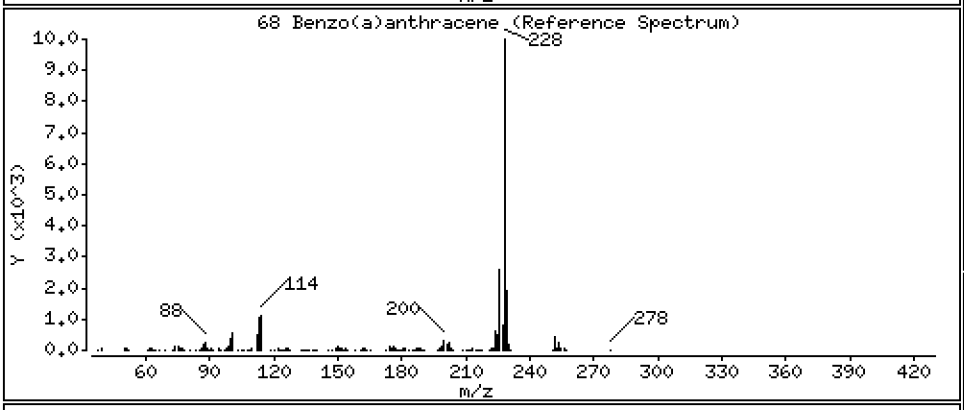
Column diameter: 0.25

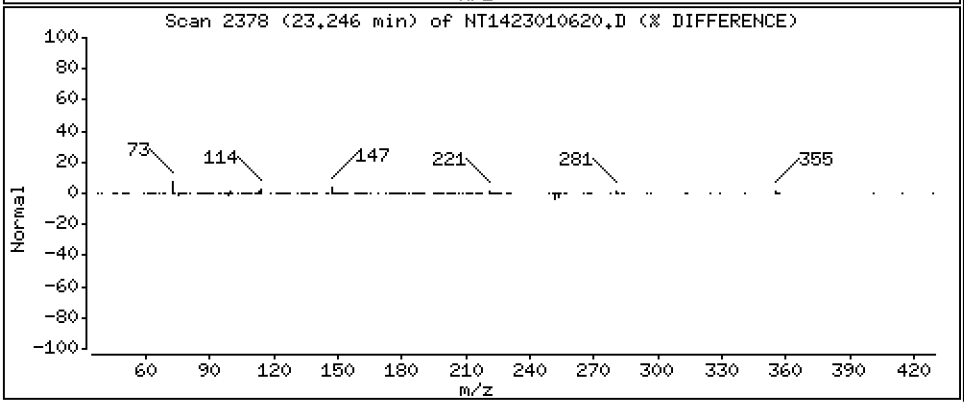
68 Benzo(a)anthracene

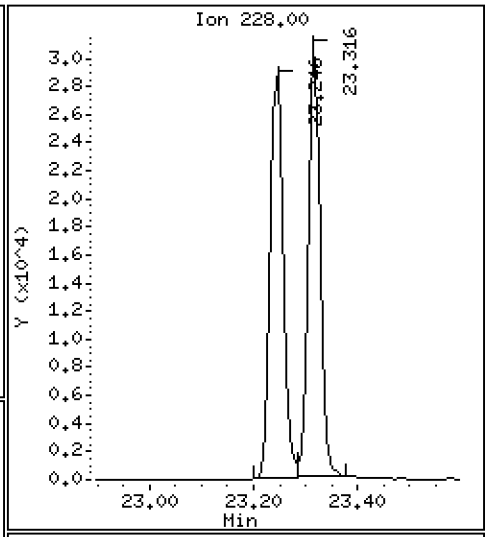
Concentration: 0.4619 ug/mL

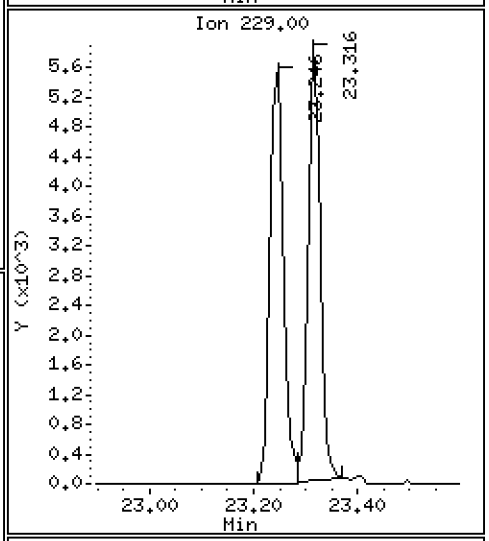


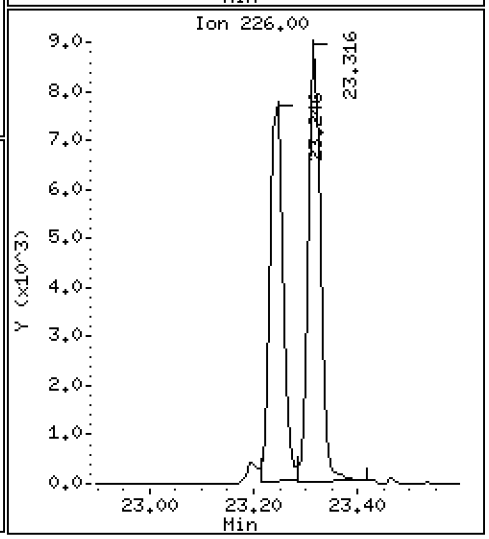












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

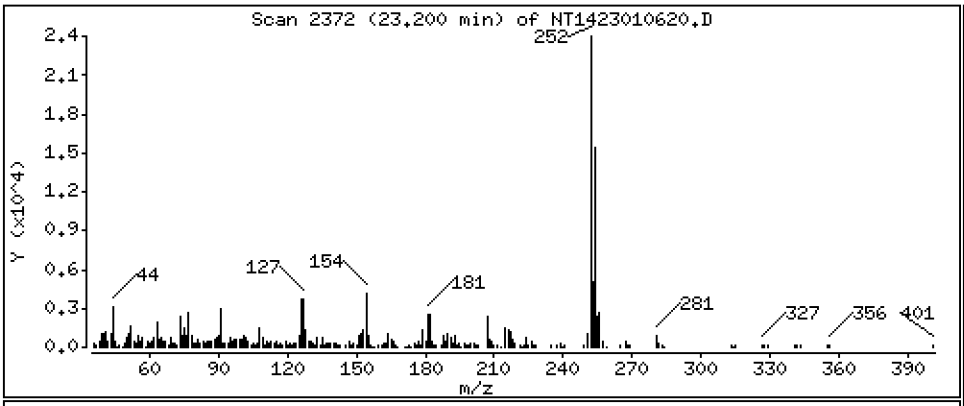
Operator: VTS

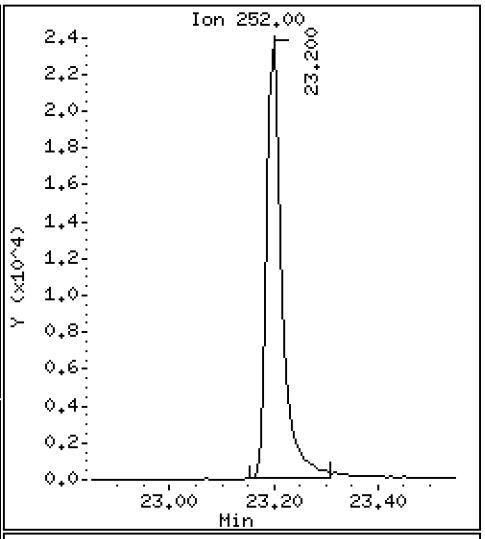
Column phase: ZB-5msi

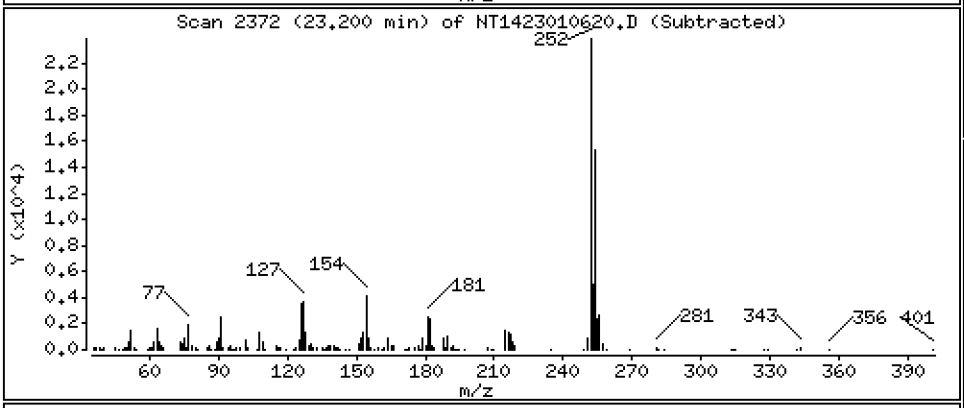
Column diameter: 0.25

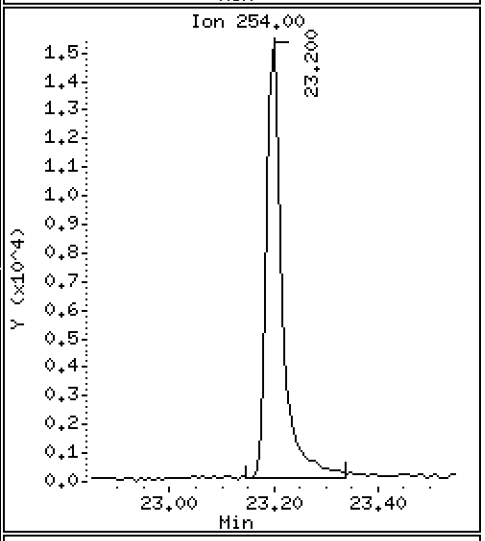
70 3,3'-Dichlorobenzidine

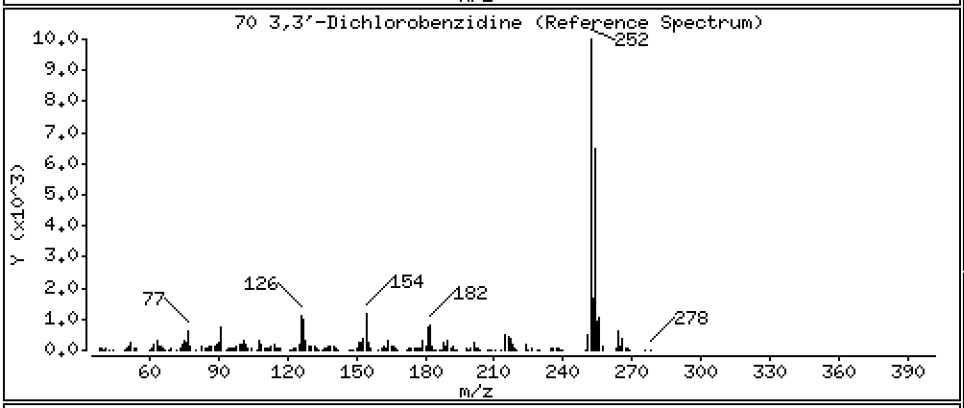
Concentration: 1.470 ug/mL

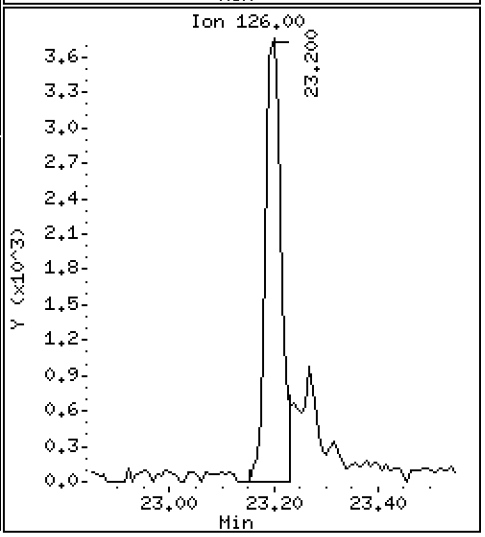


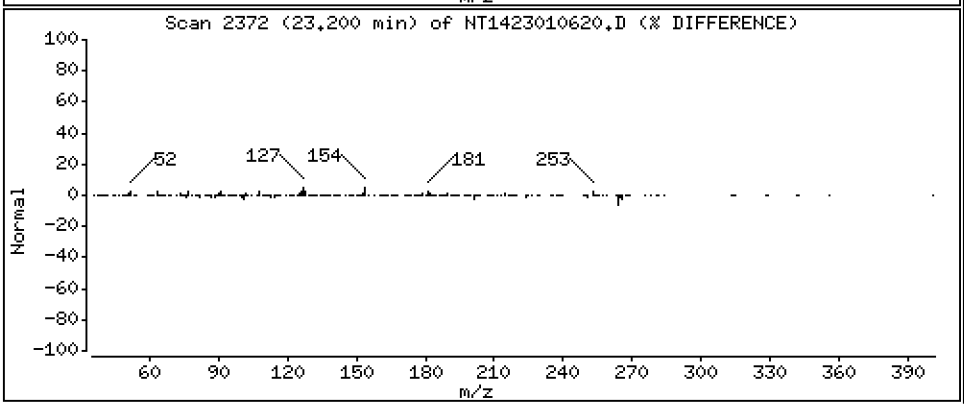












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

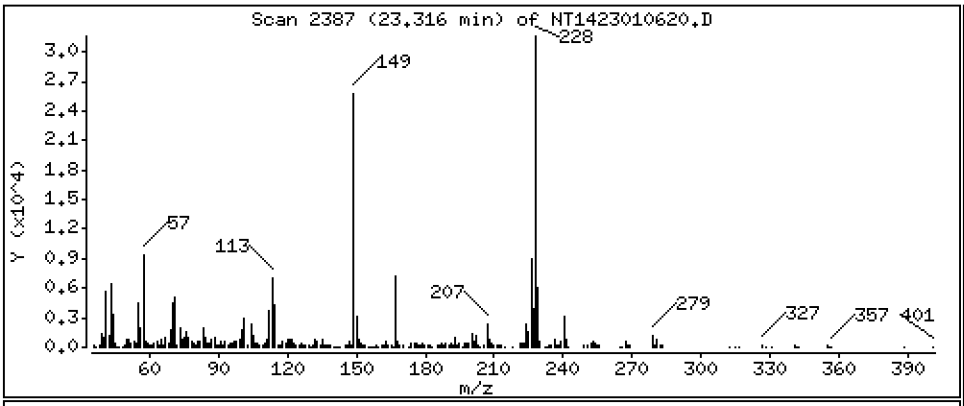
Operator: VTS

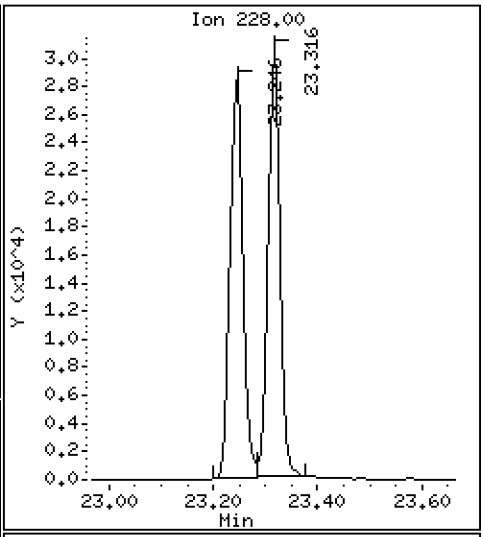
Column phase: ZB-5msi

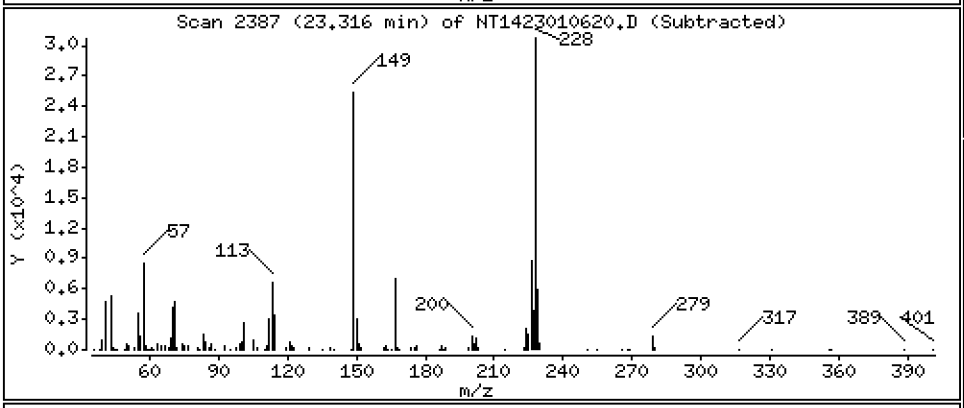
Column diameter: 0.25

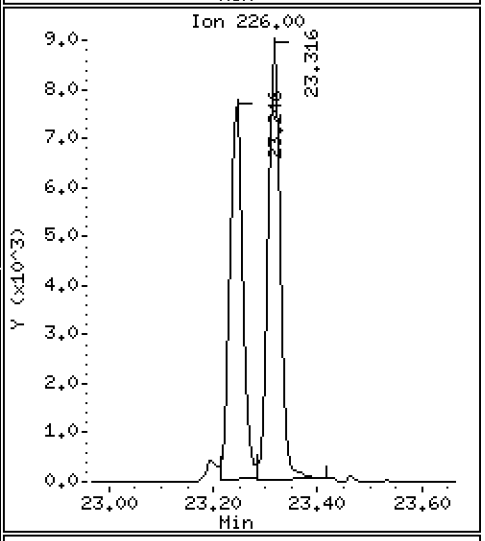
71 Chrysene

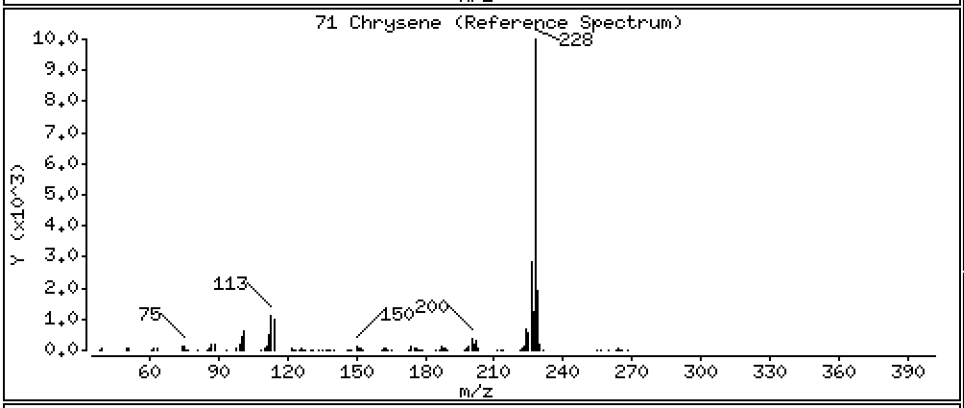
Concentration: 0.4589 ug/mL

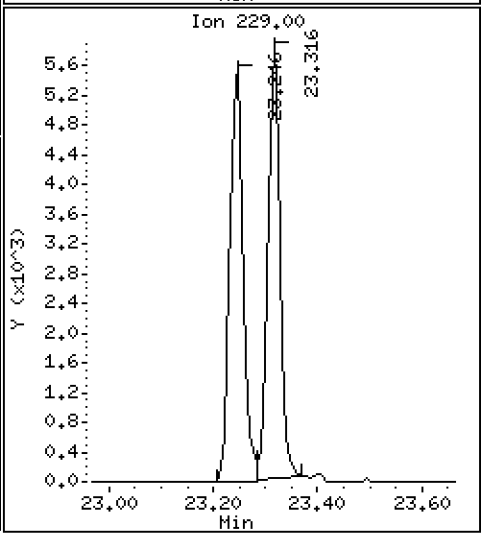


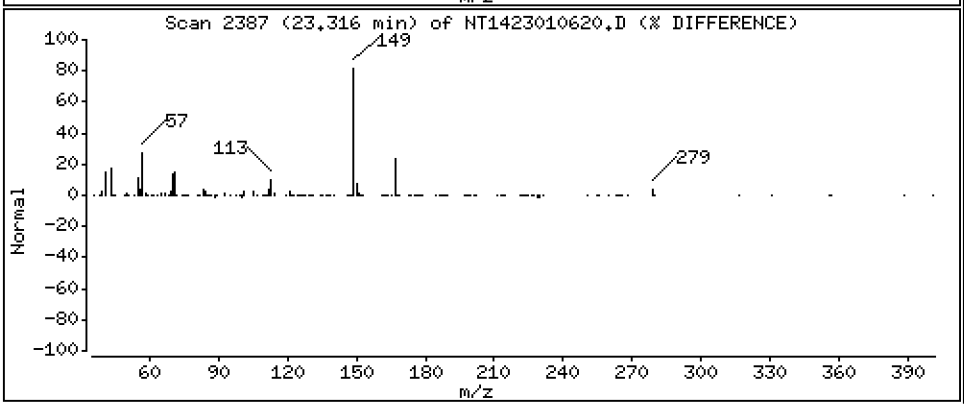












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

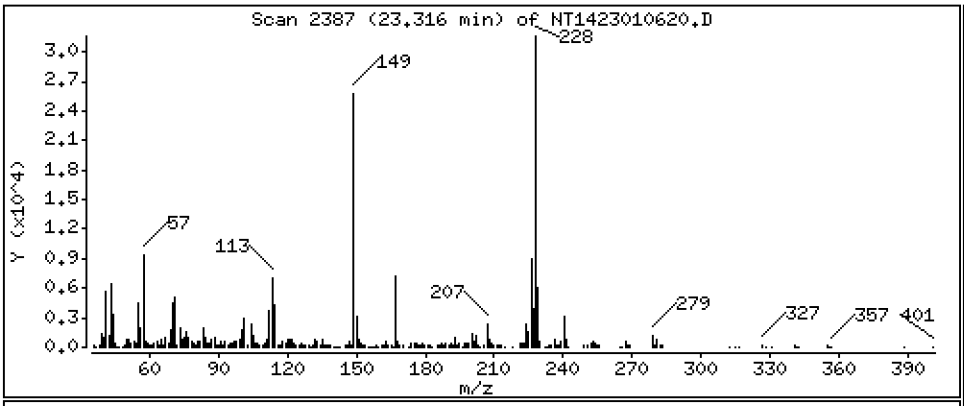
Operator: VTS

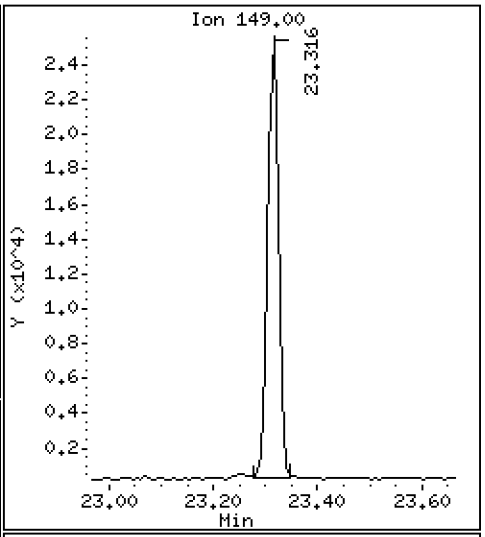
Column phase: ZB-5msi

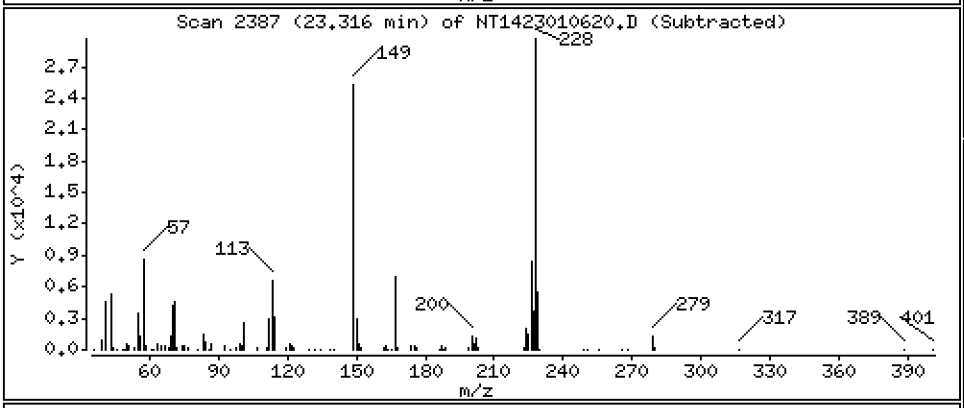
Column diameter: 0.25

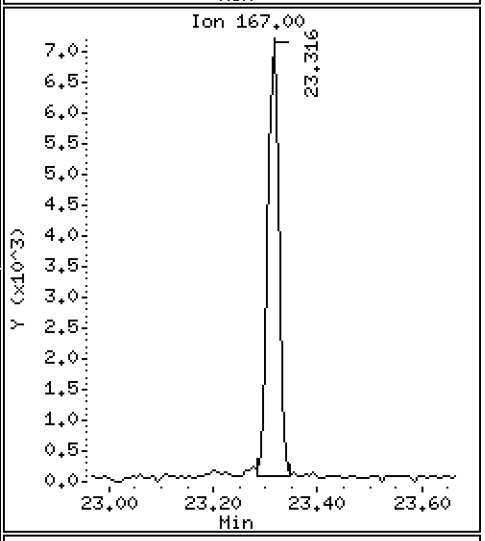
72 bis(2-Ethylhexyl)phthalate

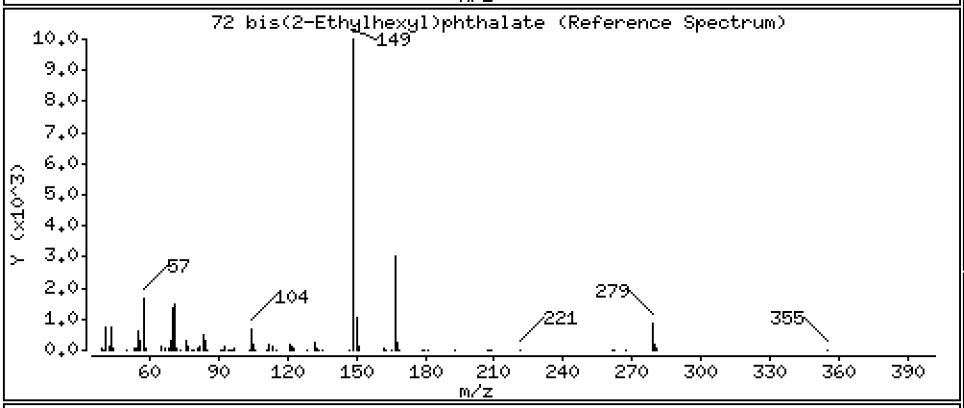
Concentration: 0.5058 ug/mL

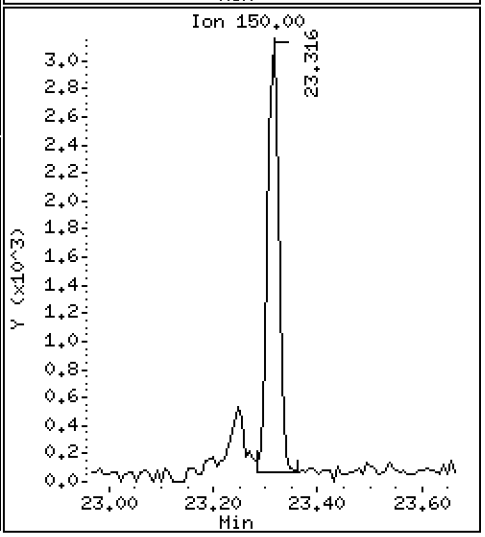


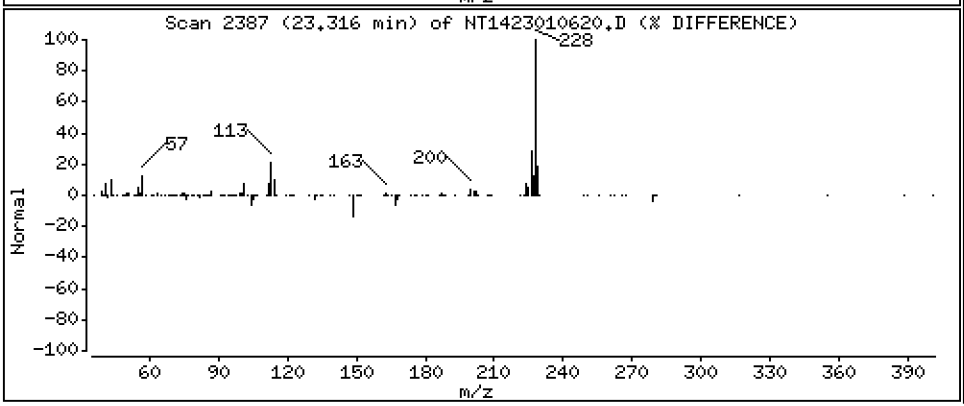












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

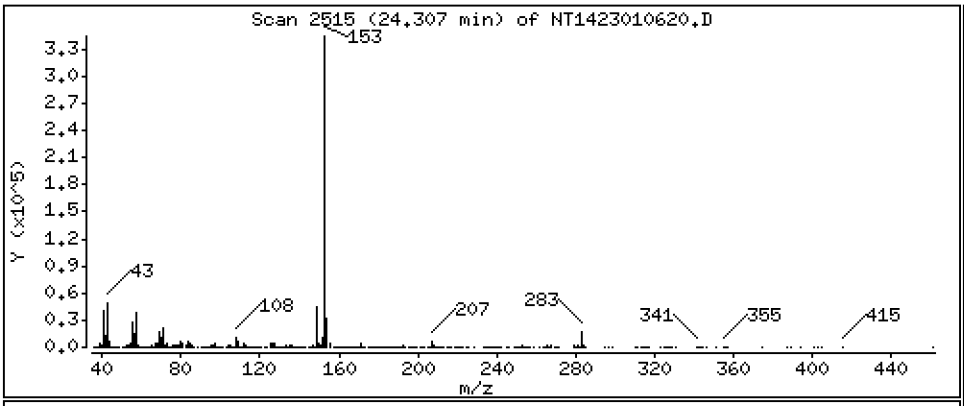
Operator: VTS

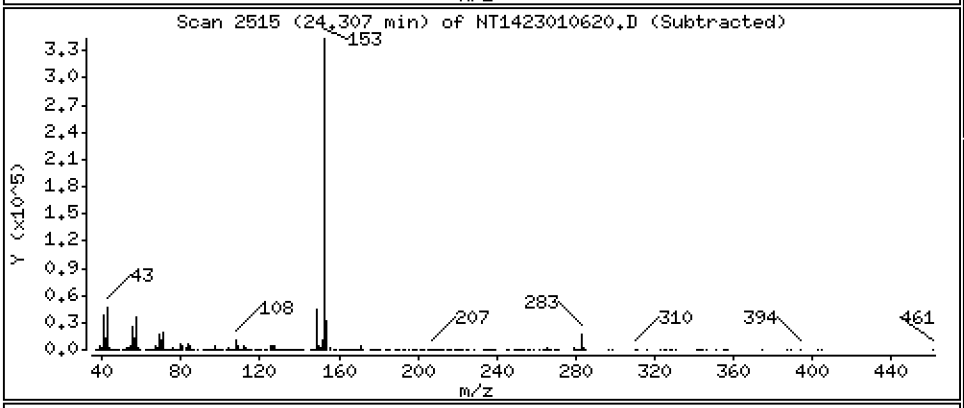
Column phase: ZB-5msi

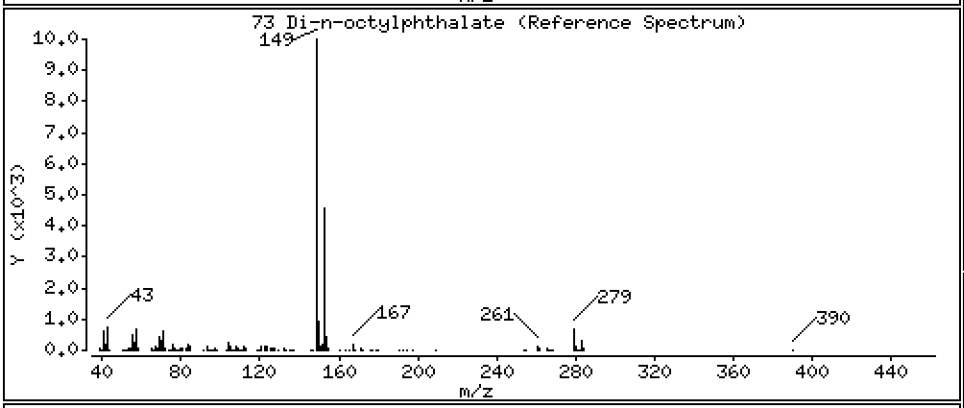
Column diameter: 0.25

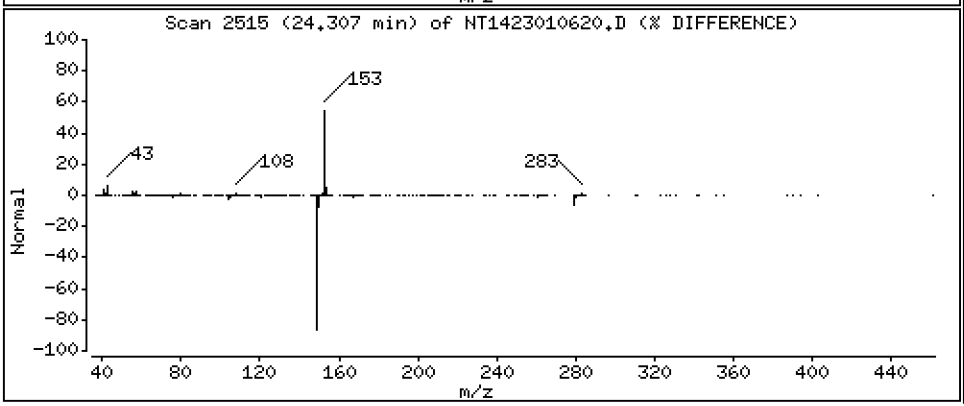
73 Di-n-octylphthalate

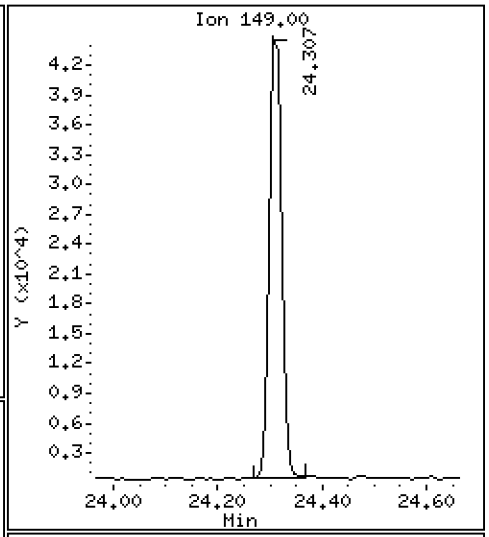
Concentration: 0.4726 ug/mL

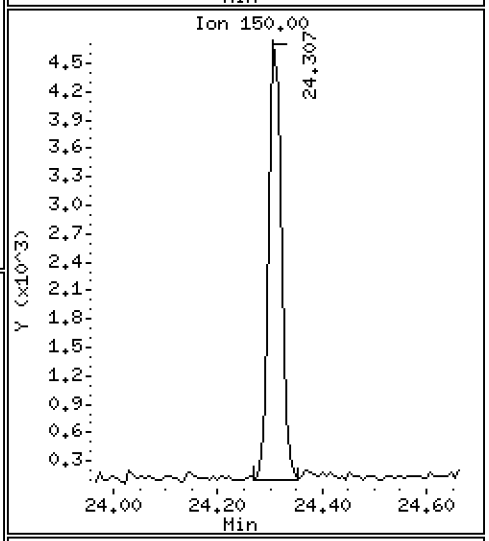


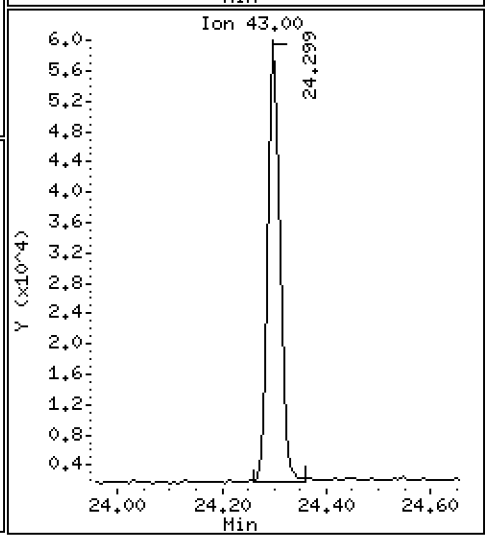












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

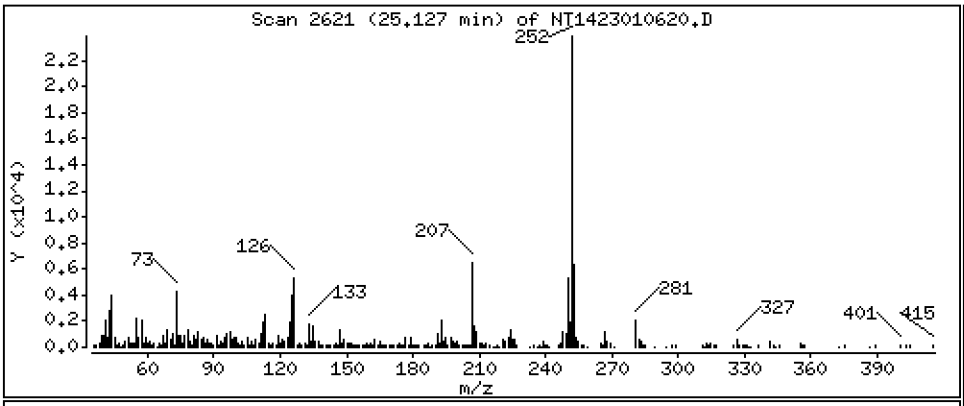
Operator: VTS

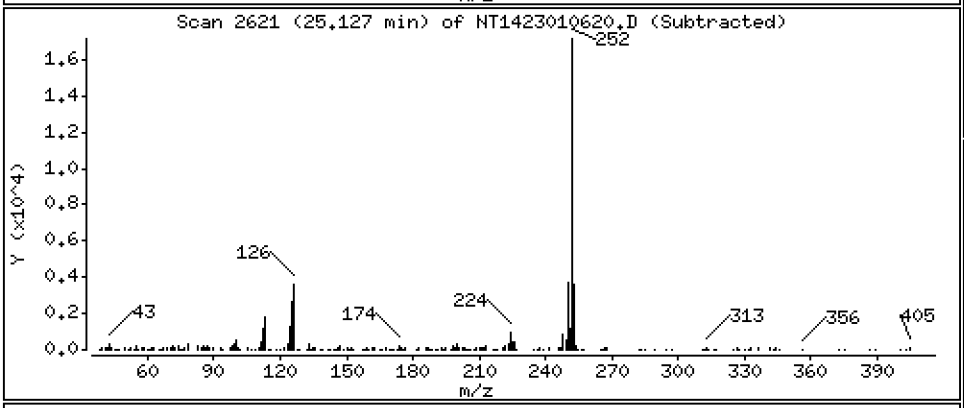
Column phase: ZB-5msi

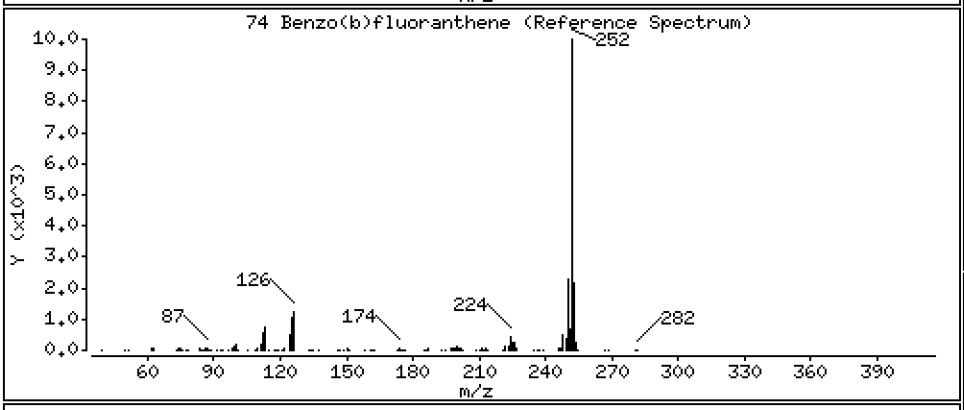
Column diameter: 0.25

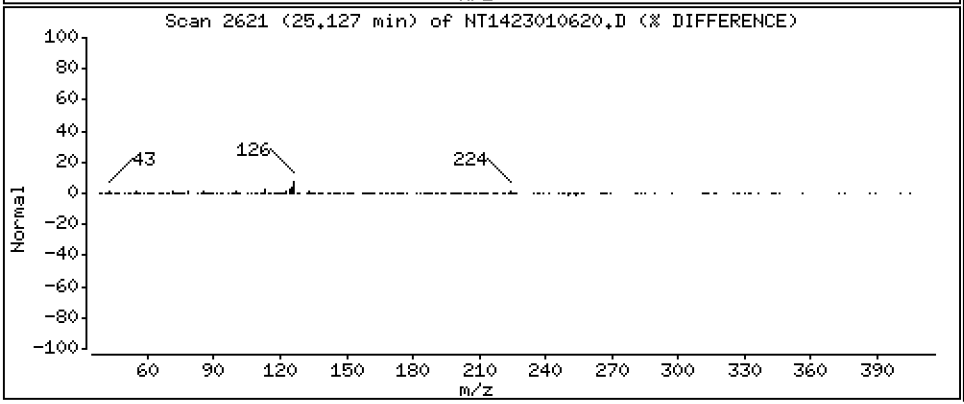
74 Benzo(b)fluoranthene

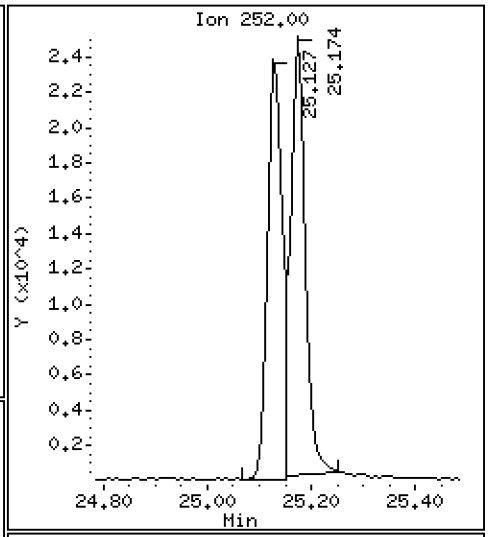
Concentration: 0.4056 ug/mL

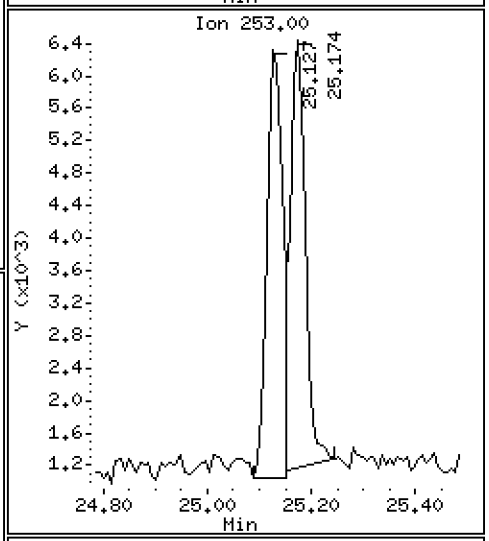


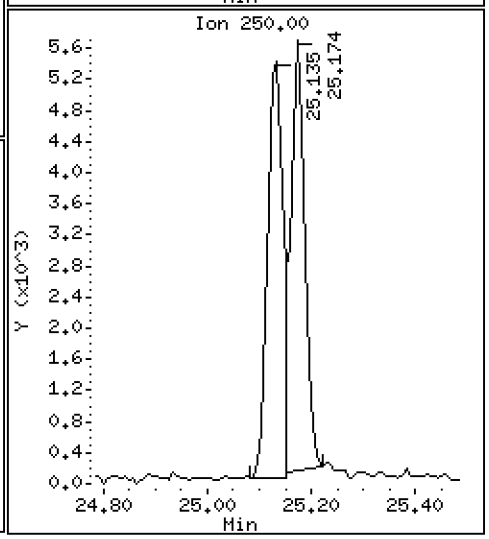












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

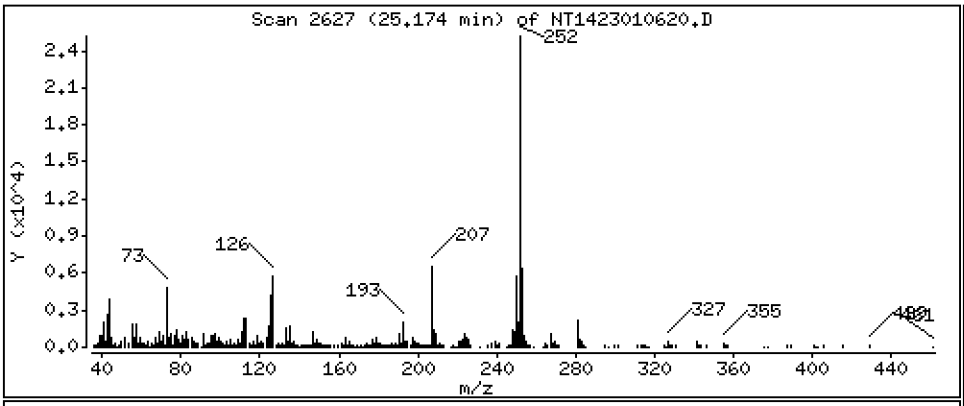
Operator: VTS

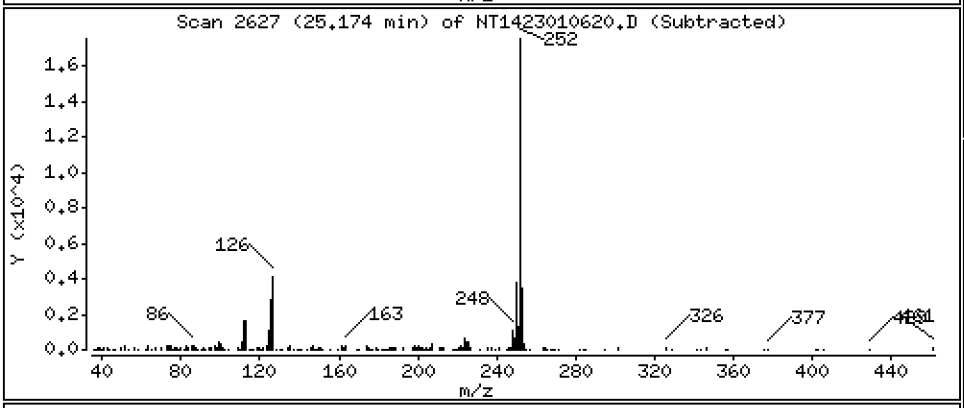
Column phase: ZB-5msi

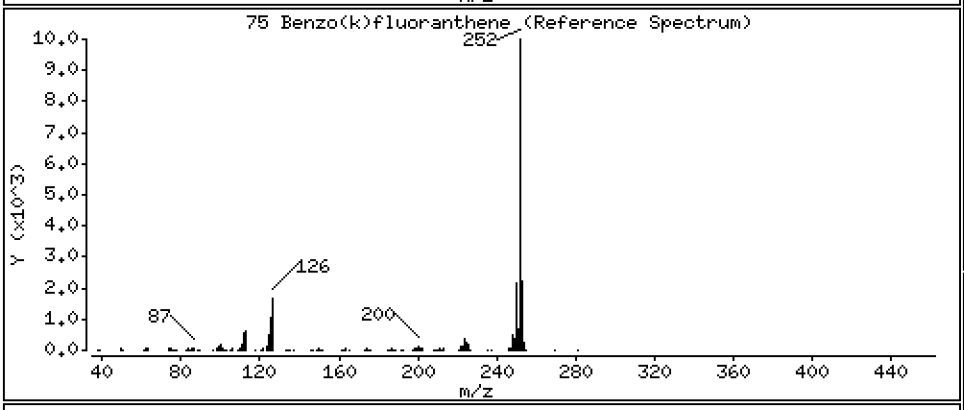
Column diameter: 0.25

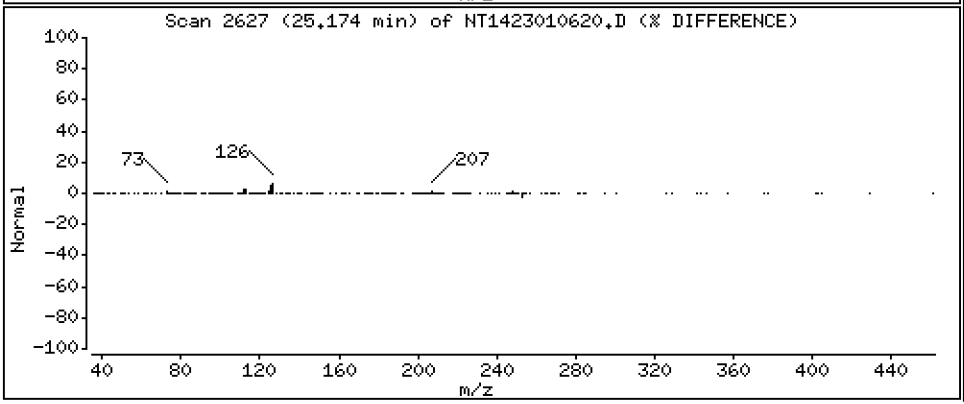
75 Benzo(k)fluoranthene

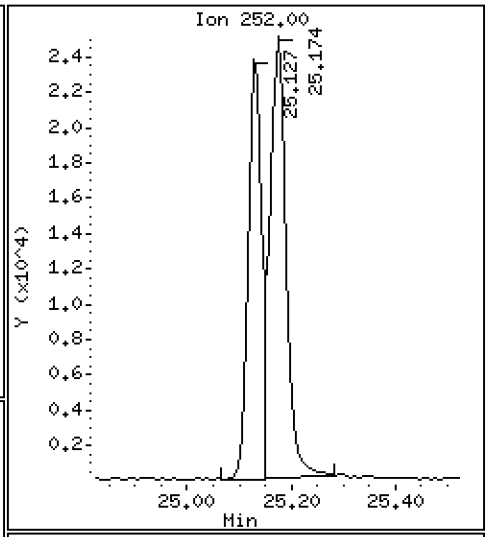
Concentration: 0.4634 ug/mL

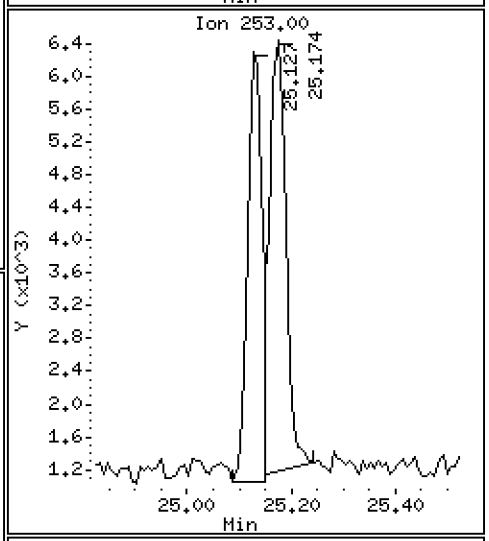


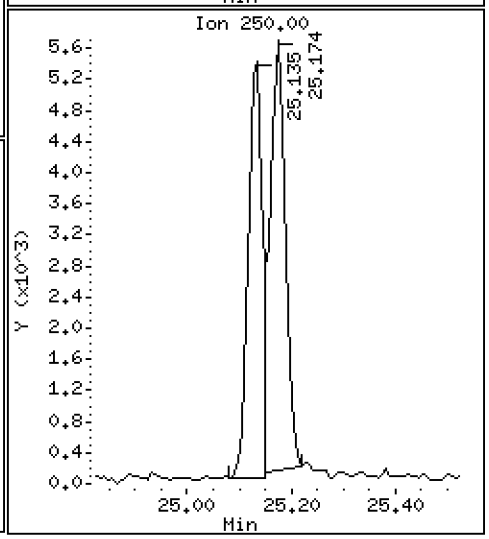












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

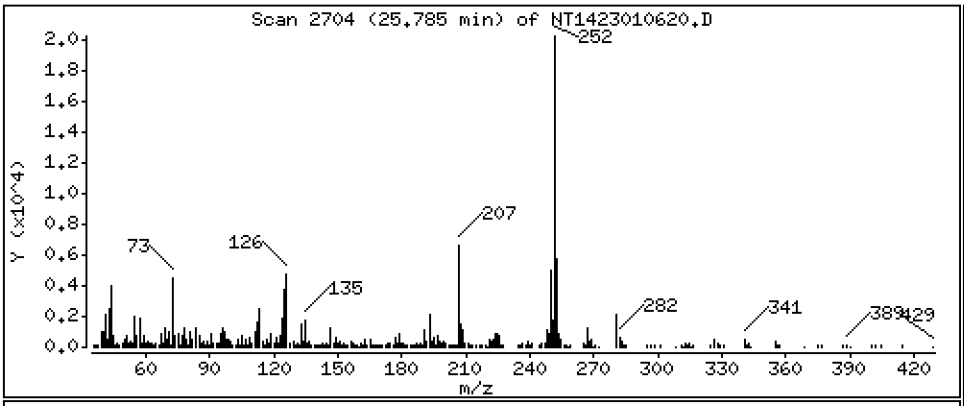
Operator: VTS

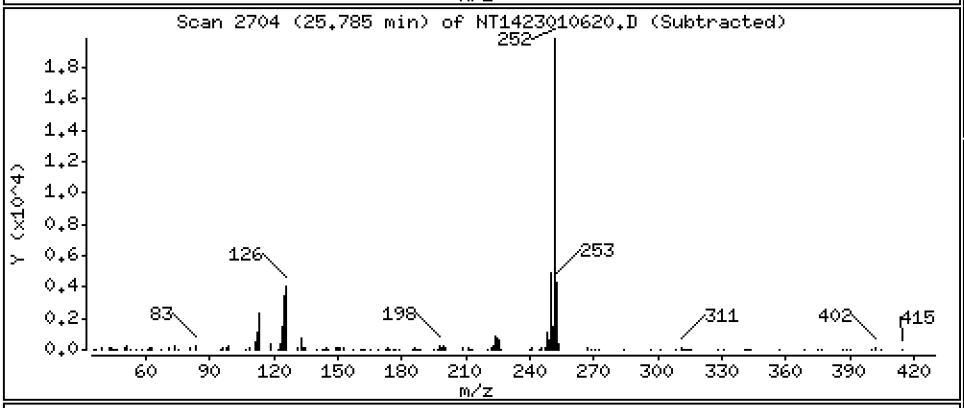
Column phase: ZB-5msi

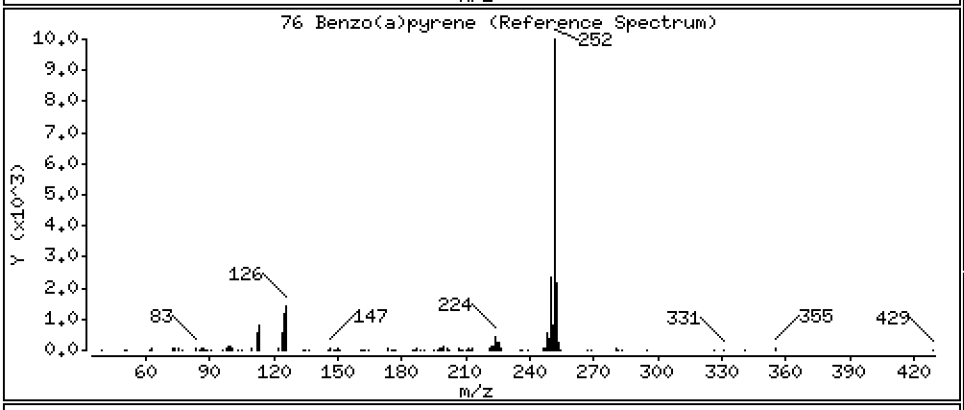
Column diameter: 0.25

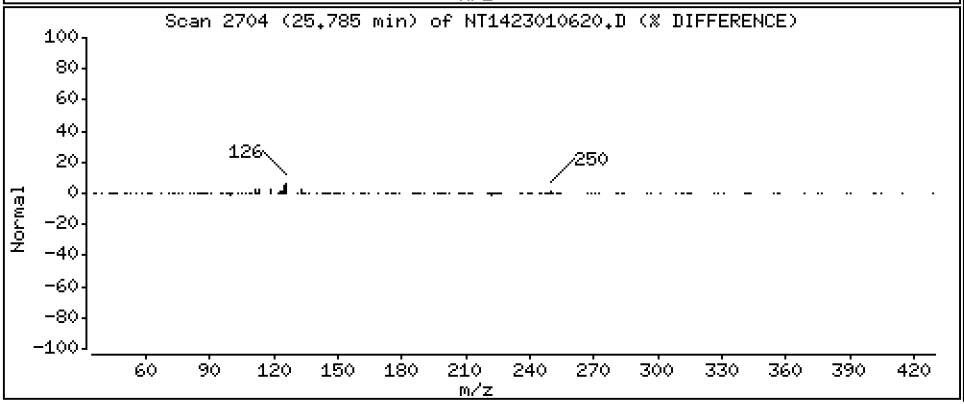
76 Benzo(a)pyrene

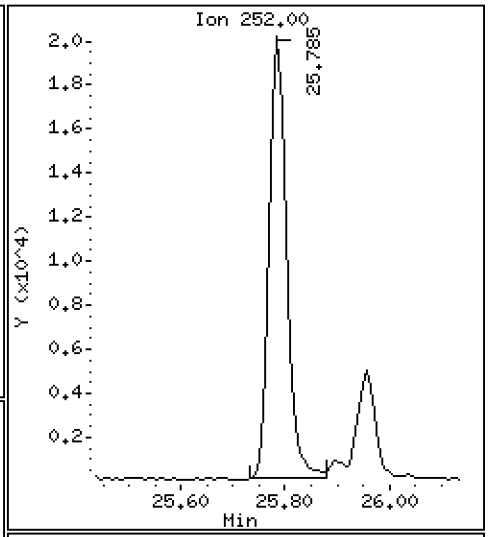
Concentration: 0.4789 ug/mL

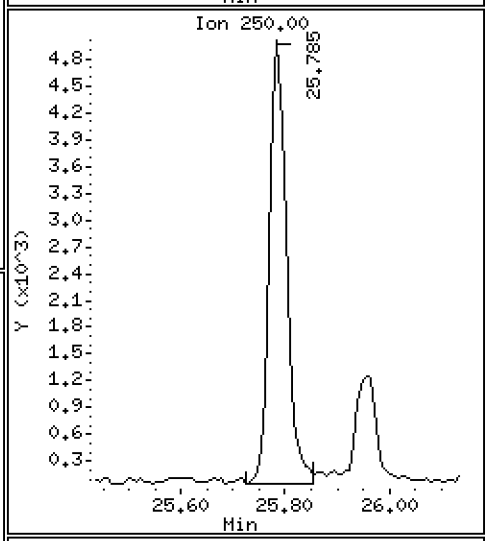


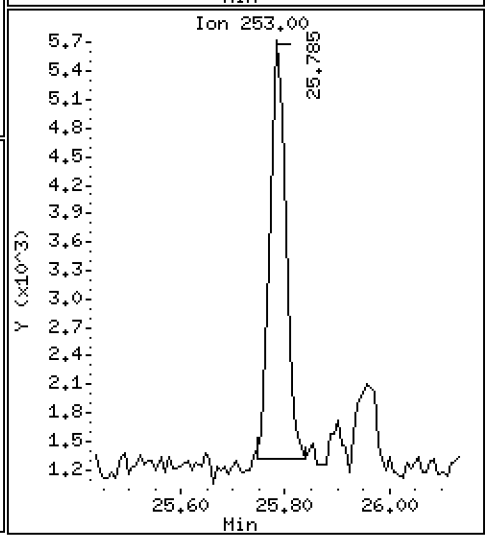












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

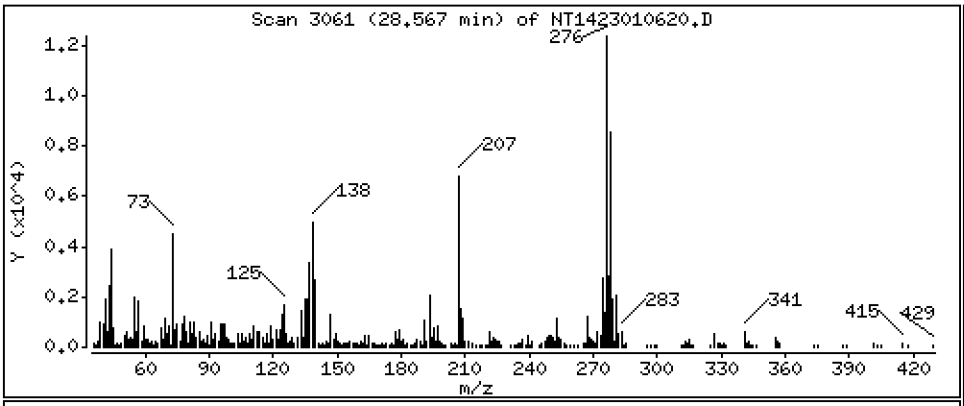
Operator: VTS

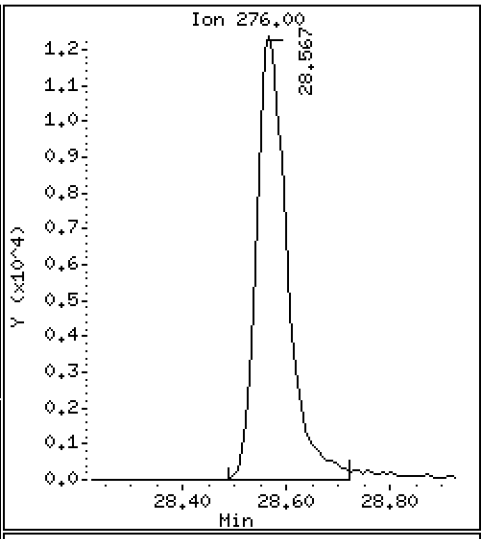
Column phase: ZB-5msi

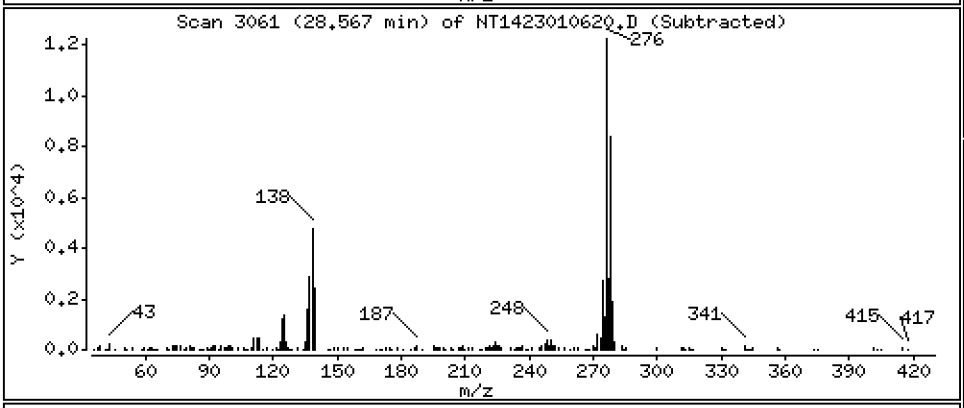
Column diameter: 0.25

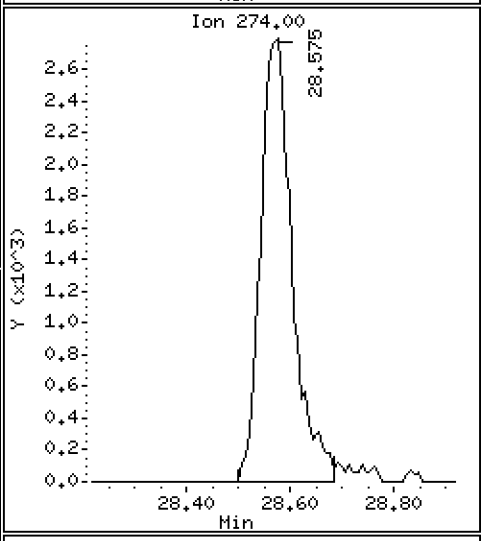
78 Indeno(1,2,3-cd)pyrene

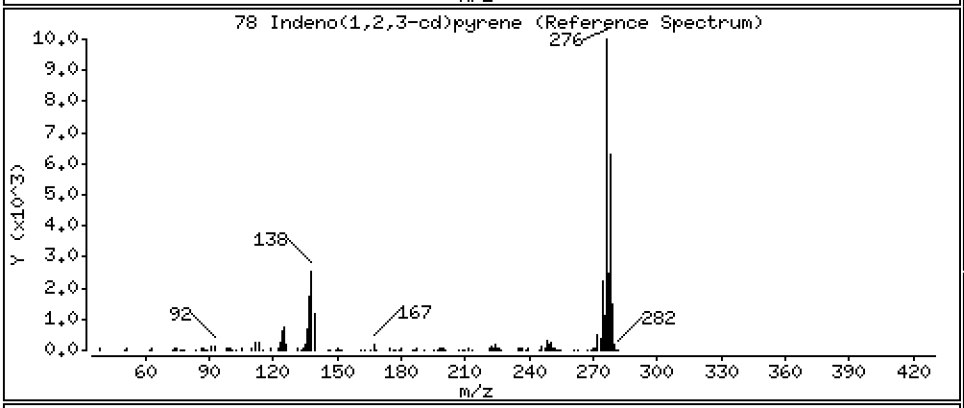
Concentration: 0.4768 ug/mL

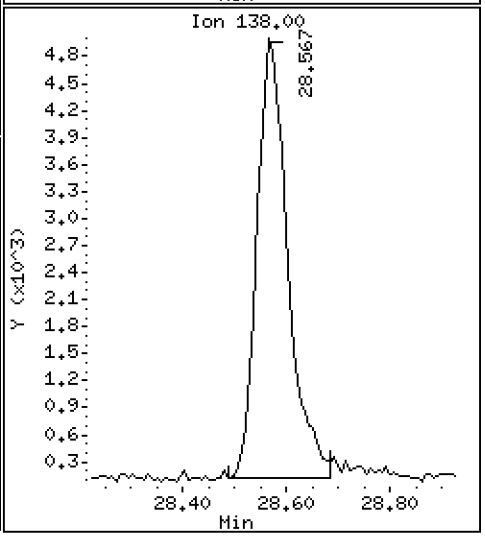


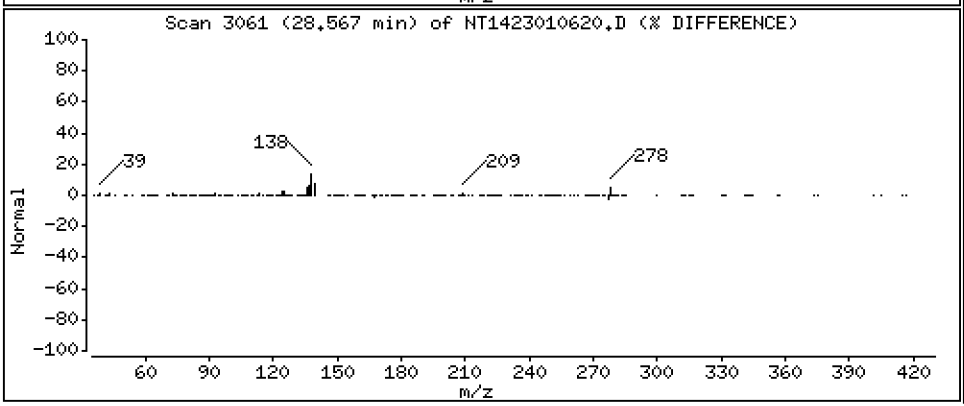












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

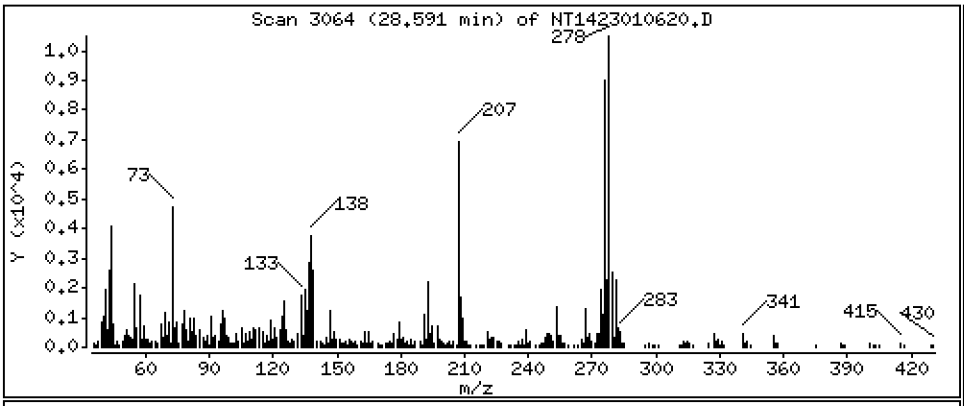
Operator: VTS

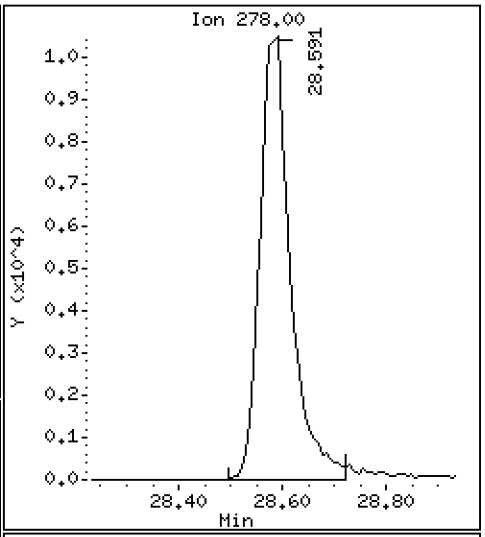
Column phase: ZB-5msi

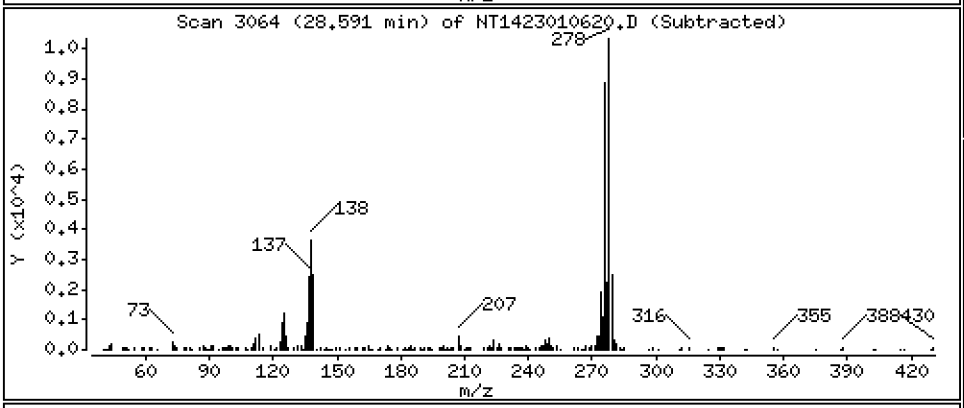
Column diameter: 0.25

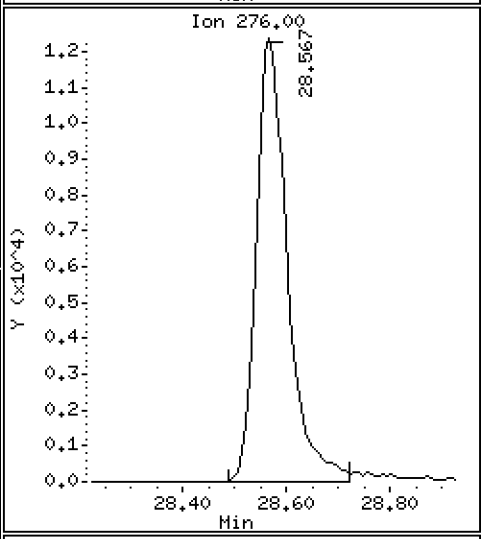
79 Dibenzo(a,h)anthracene

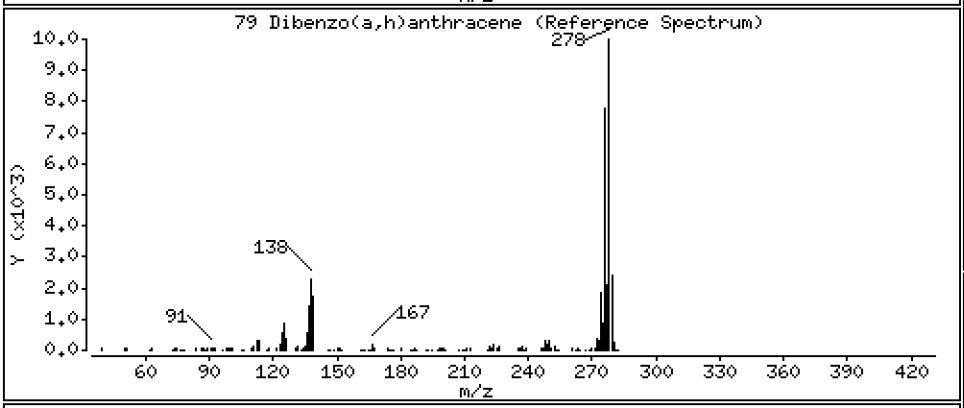
Concentration: 0.4663 ug/mL

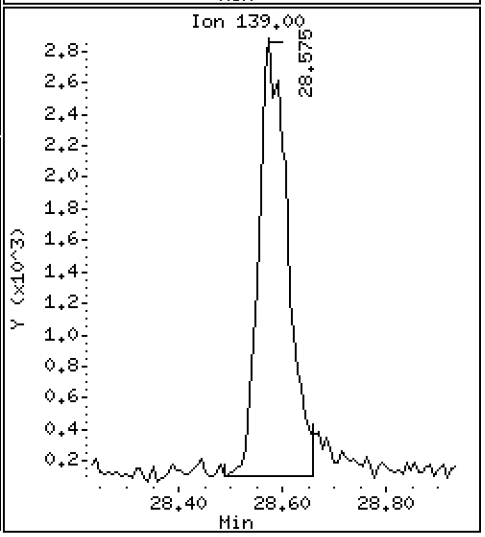


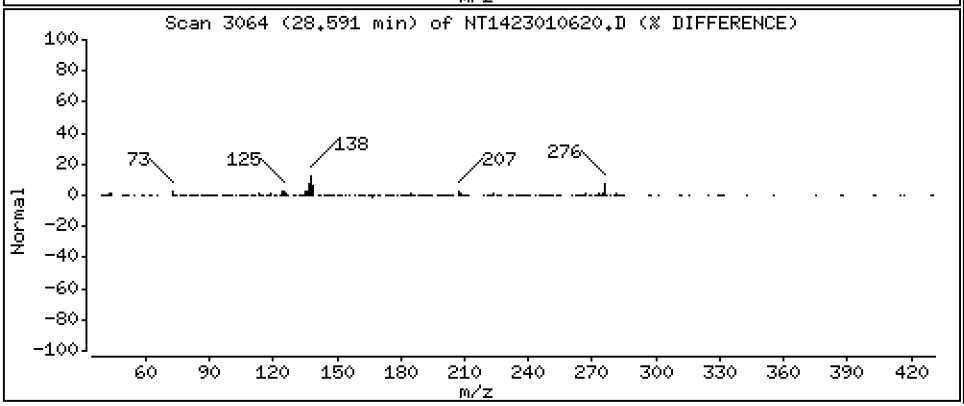












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

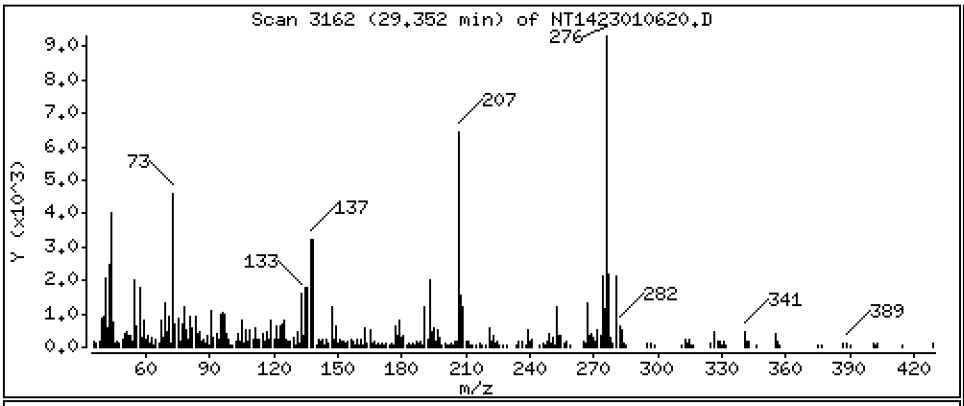
Operator: VTS

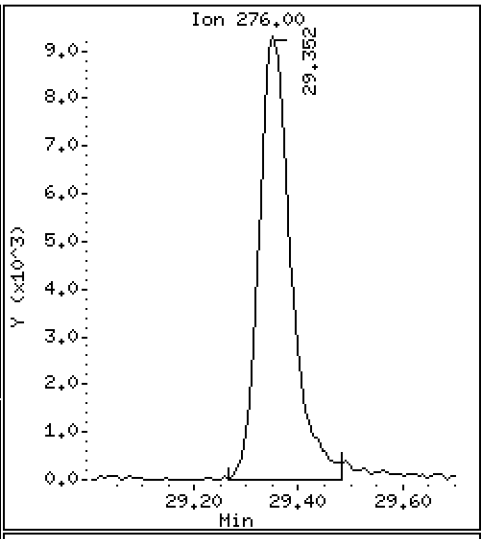
Column phase: ZB-5msi

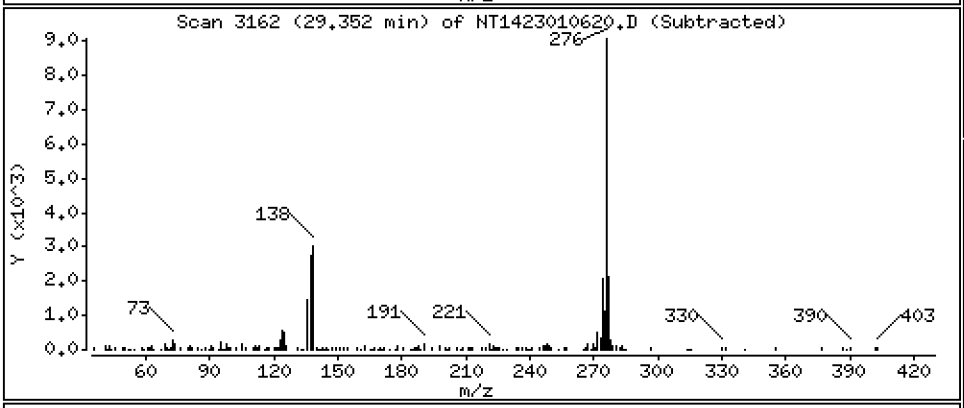
Column diameter: 0.25

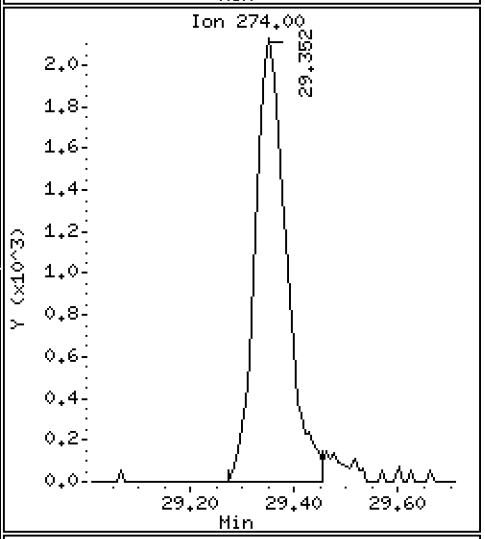
80 Benzo(g,h,i)perylene

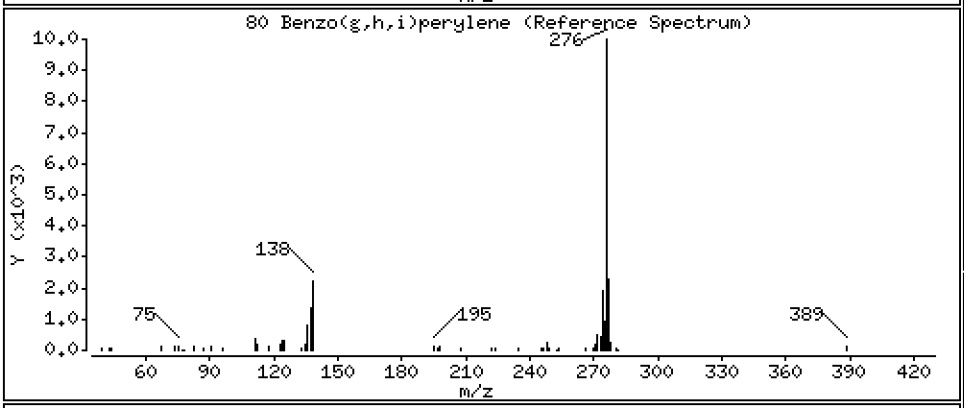
Concentration: 0.4438 ug/mL

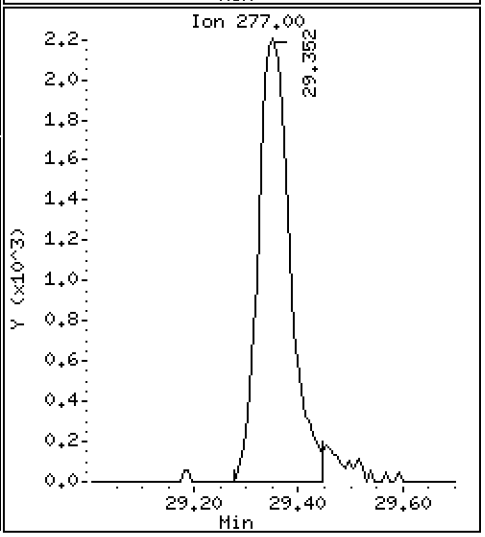


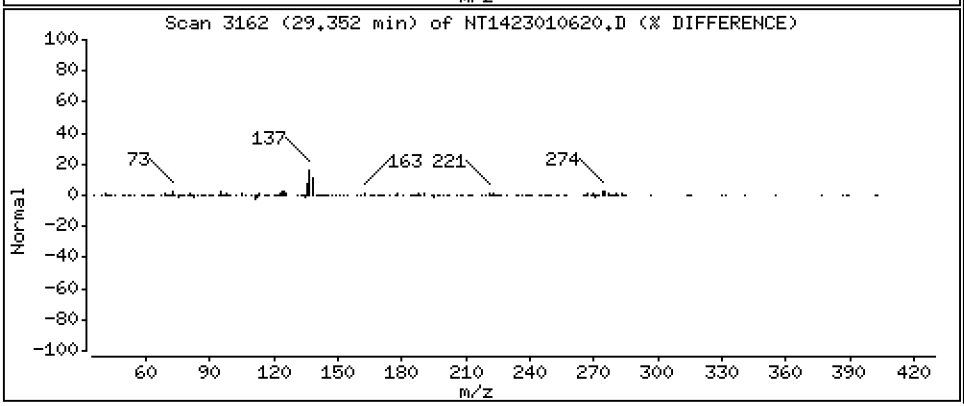












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

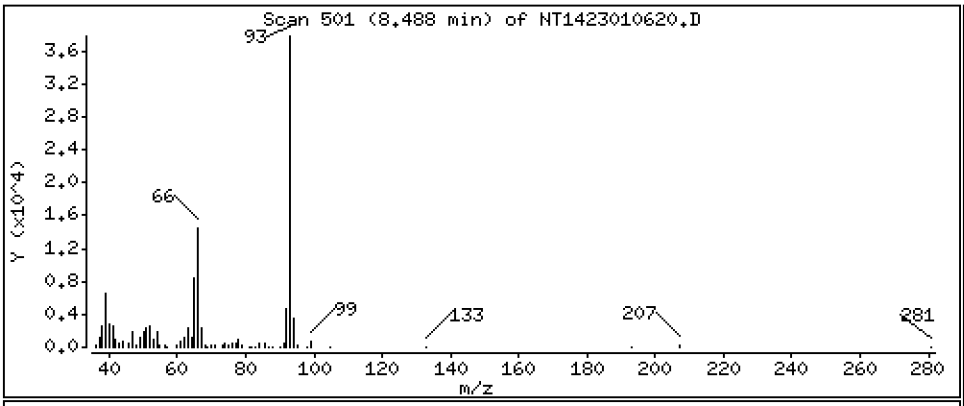
Operator: VTS

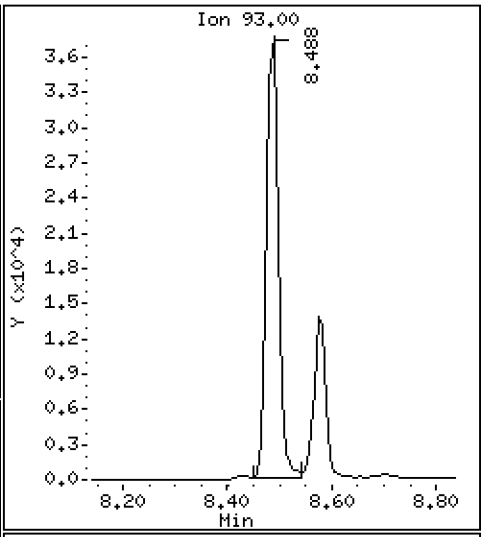
Column phase: ZB-5msi

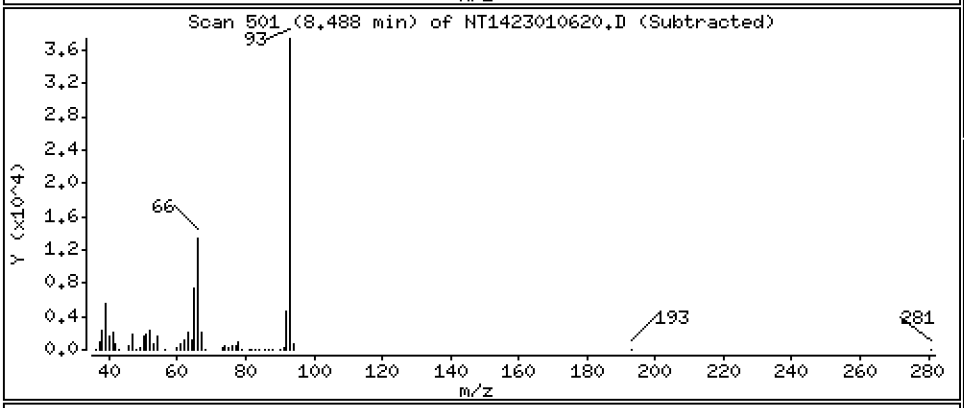
Column diameter: 0.25

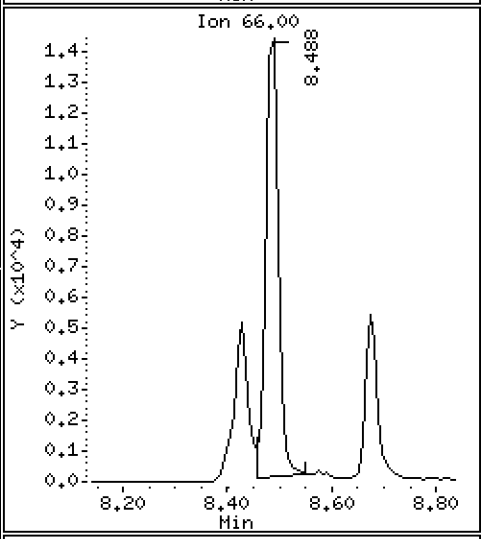
91 Aniline

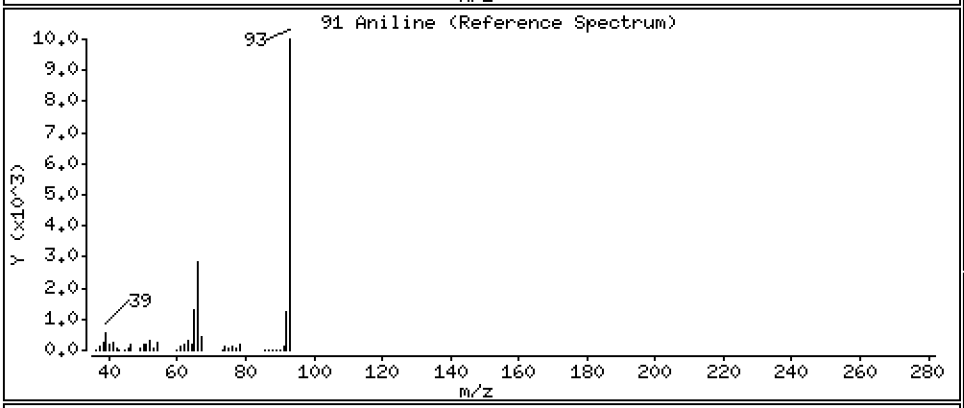
Concentration: 0.8863 ug/mL

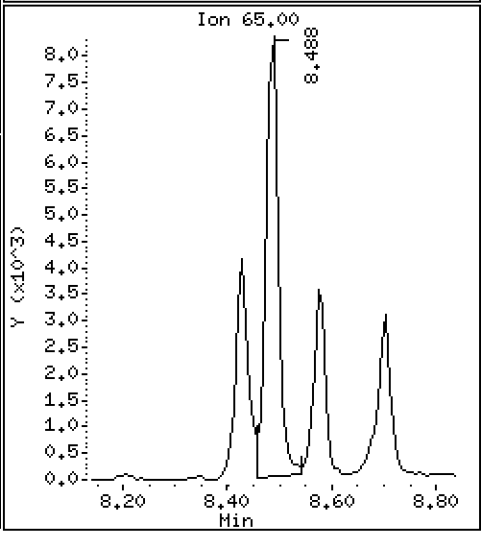


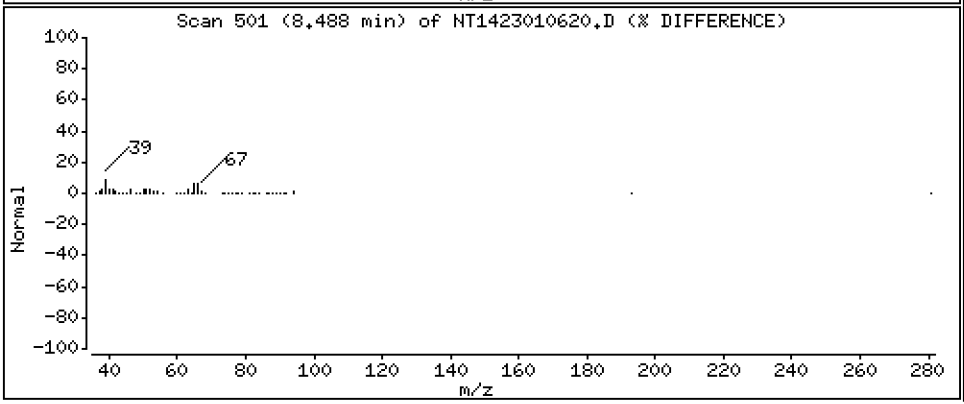












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

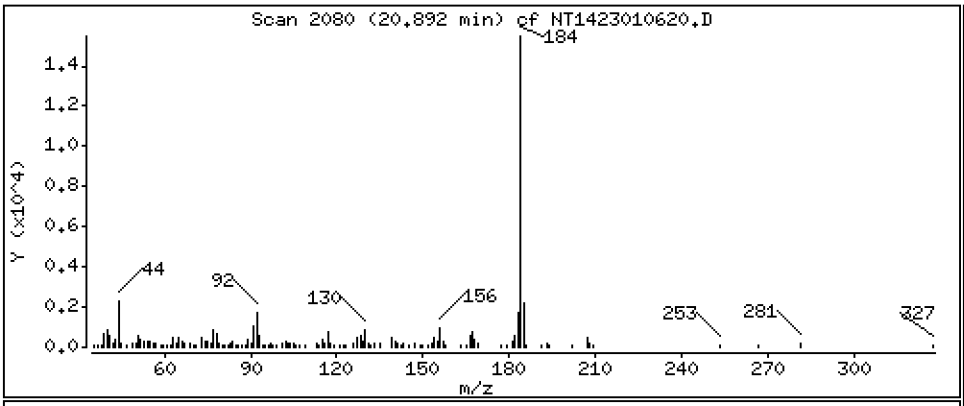
Operator: VTS

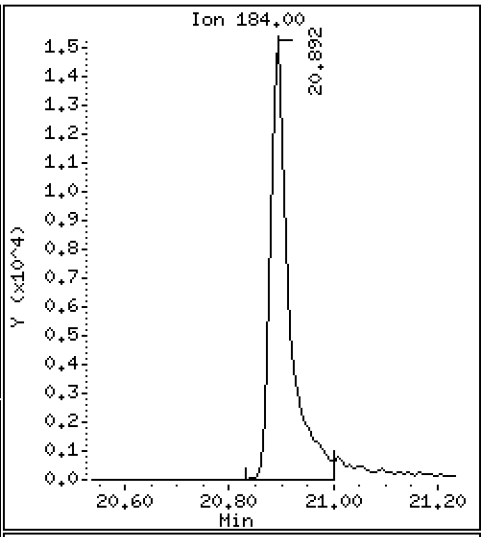
Column phase: ZB-5msi

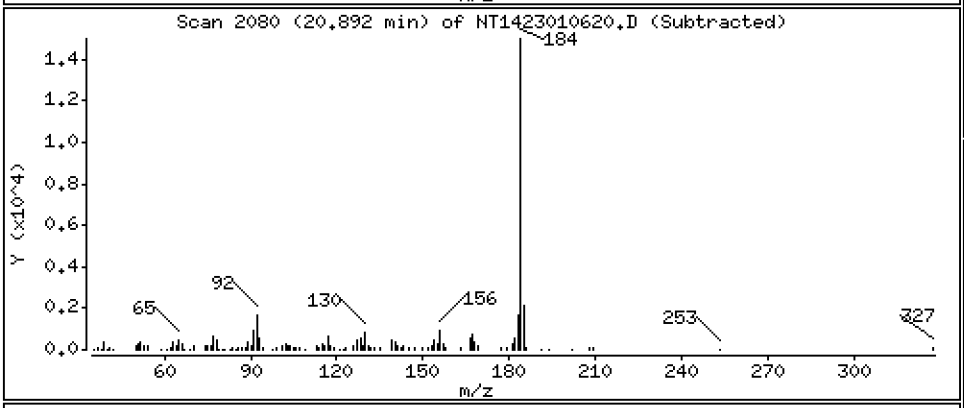
Column diameter: 0.25

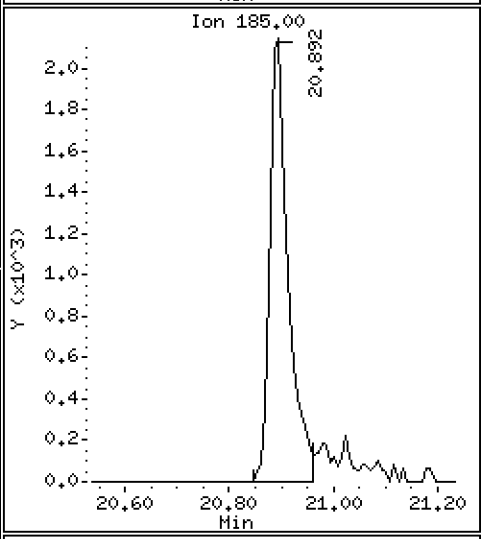
93 Benzidine

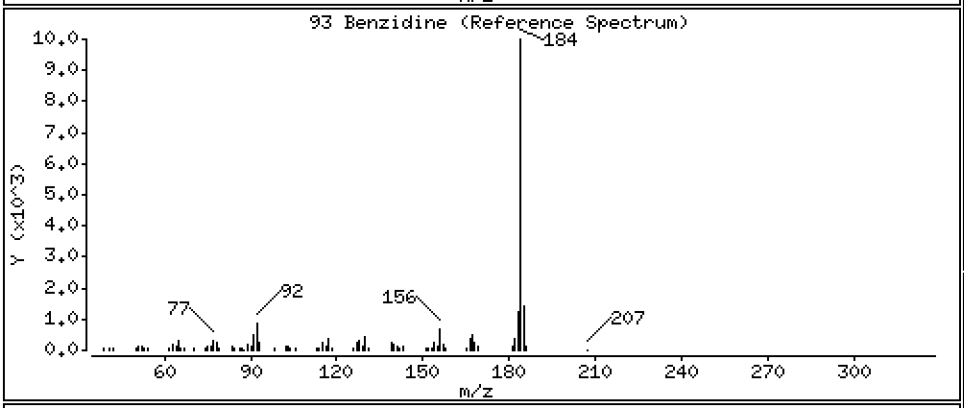
Concentration: 0.9052 ug/mL

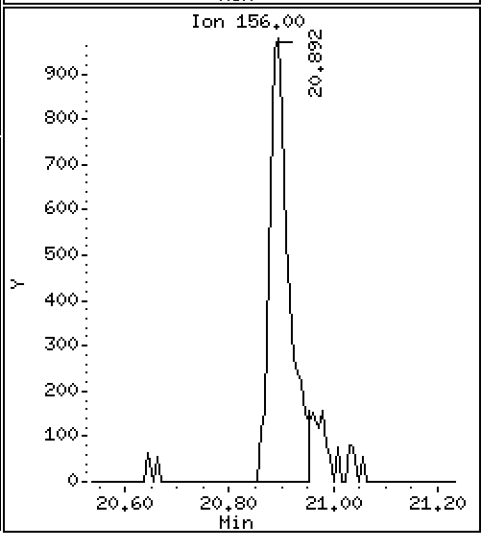


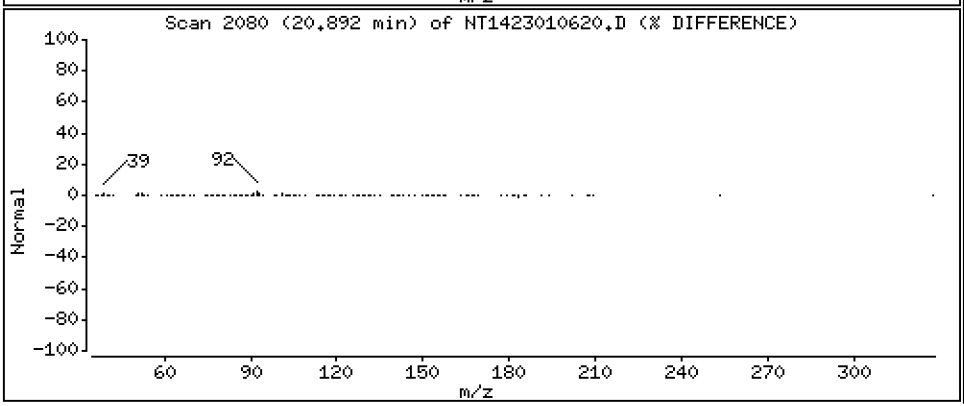












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

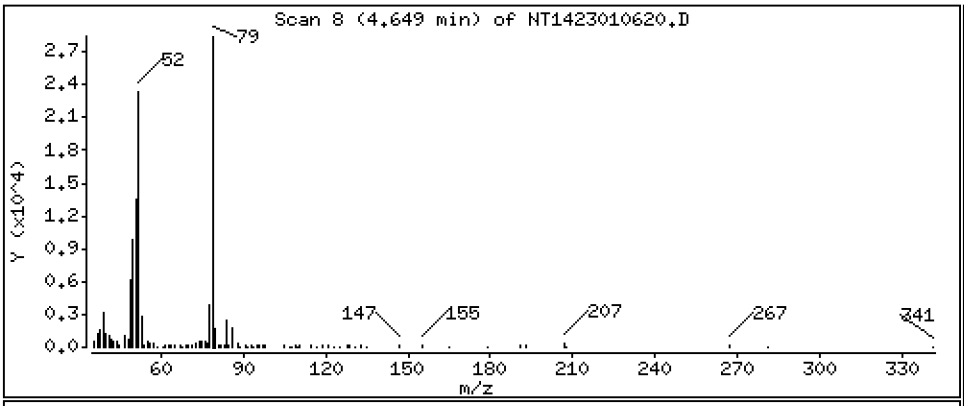
Operator: VTS

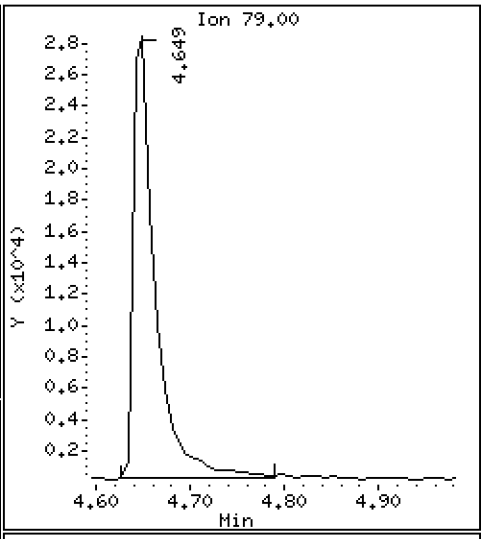
Column phase: ZB-5msi

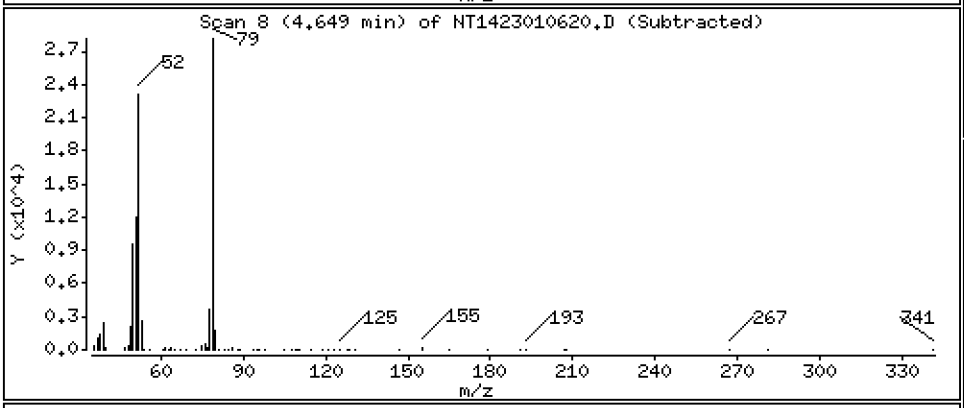
Column diameter: 0.25

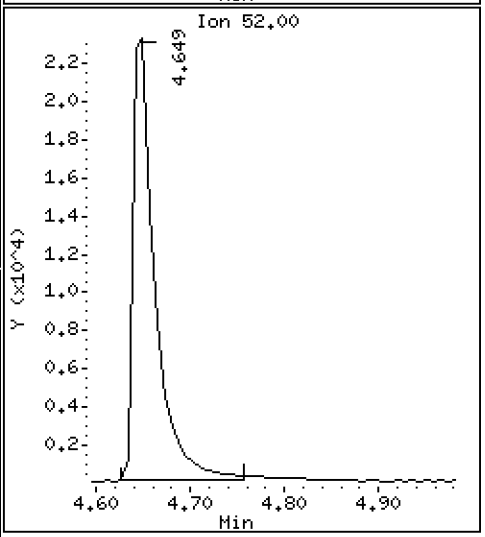
103 Pyridine

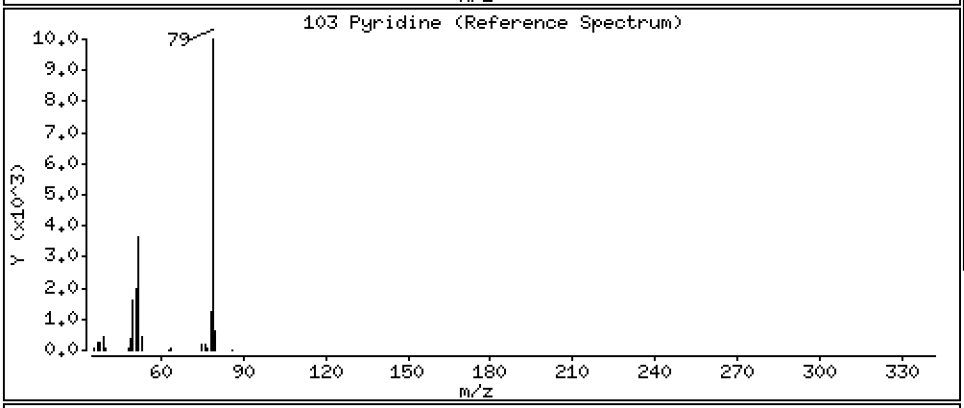
Concentration: 0.4671 ug/mL

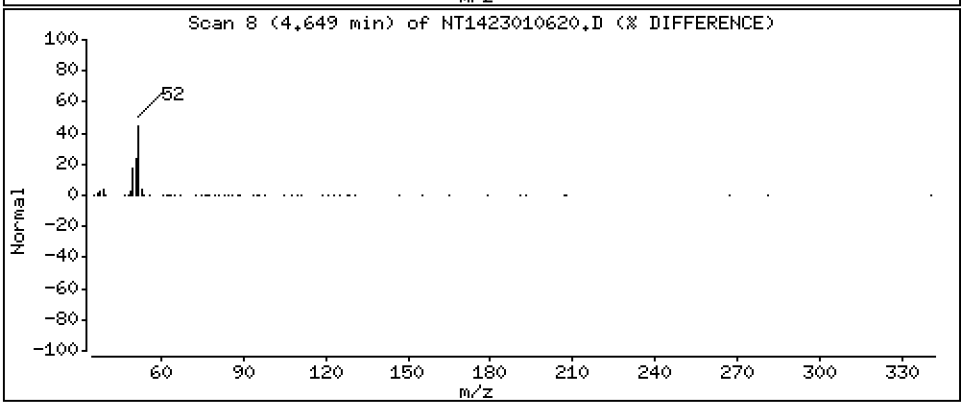












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

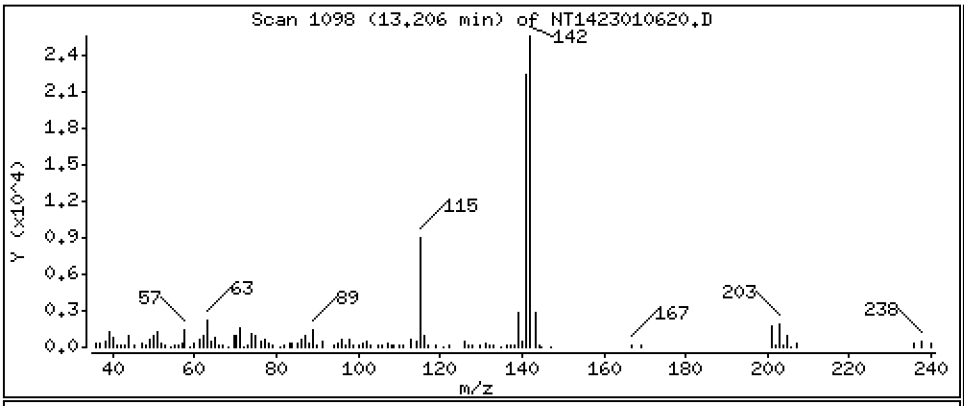
Operator: VTS

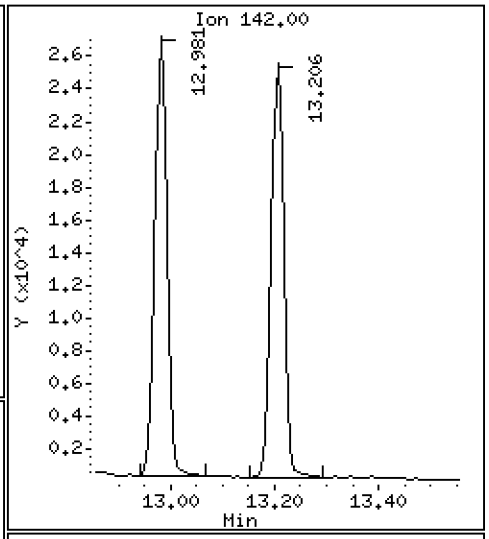
Column phase: ZB-5msi

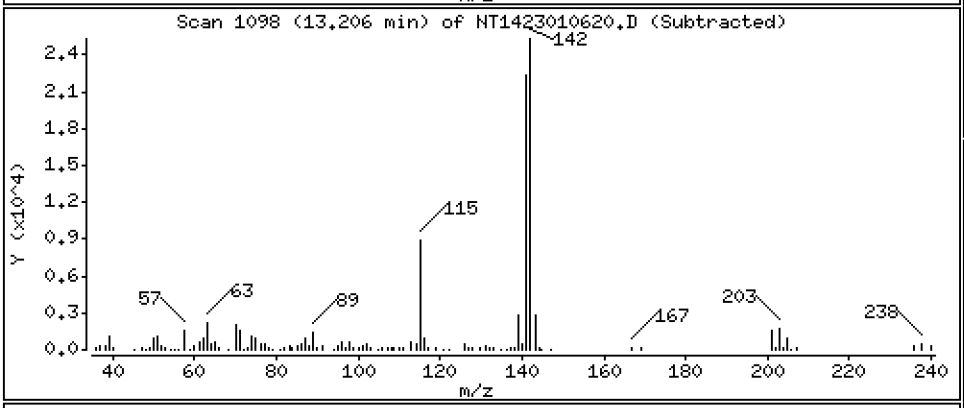
Column diameter: 0.25

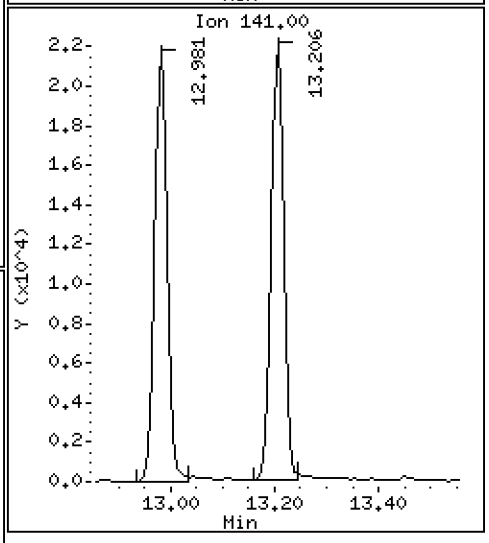
105 1-methylnaphthalene

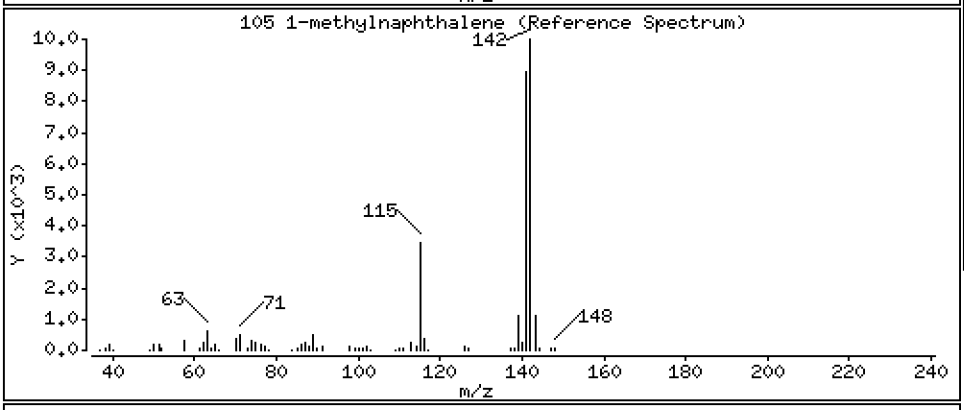
Concentration: 0.4456 ug/mL

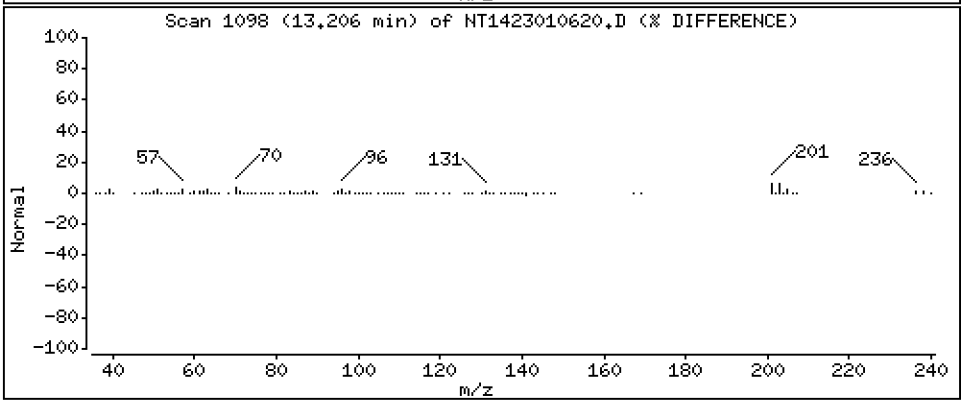












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

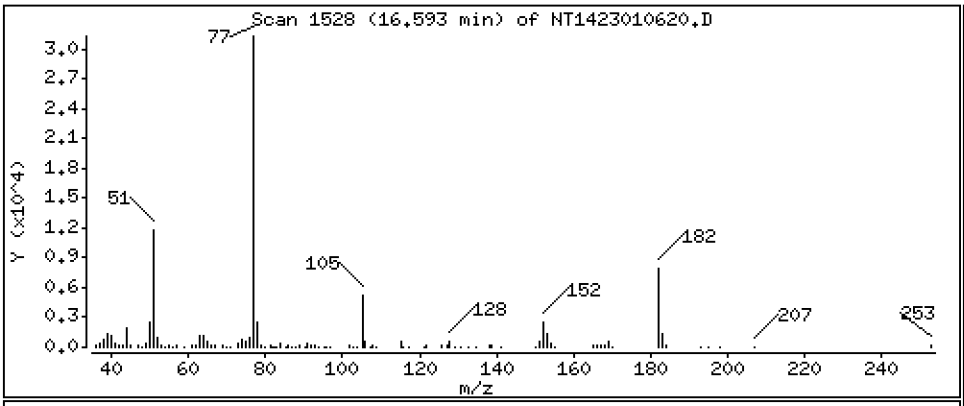
Operator: VTS

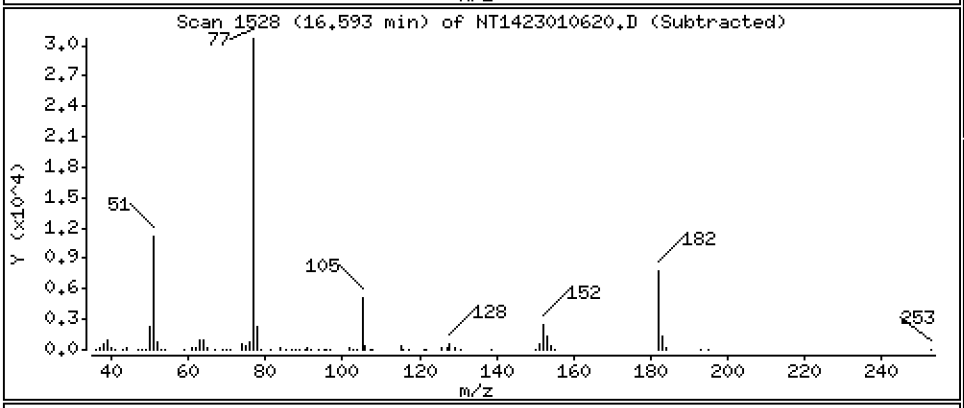
Column phase: ZB-5msi

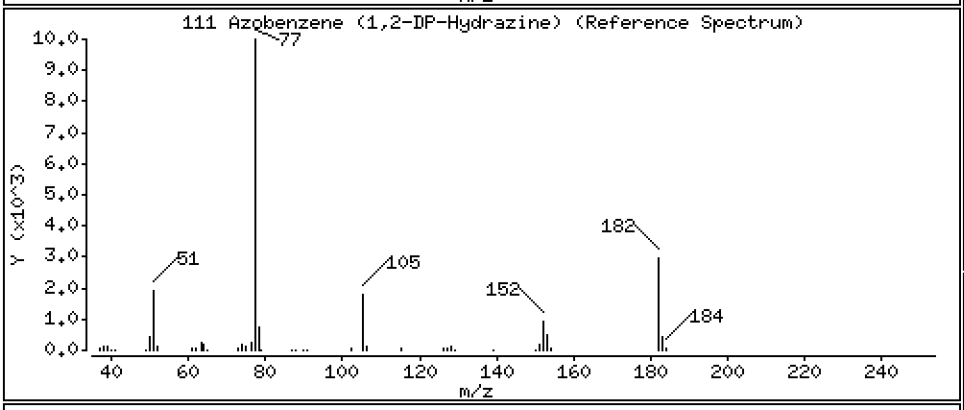
Column diameter: 0.25

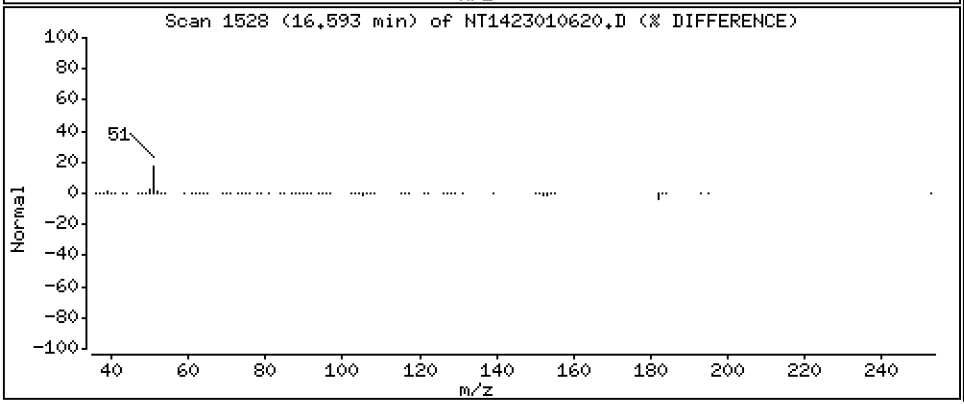
111 Azobenzene (1,2-DP-Hydrazine)

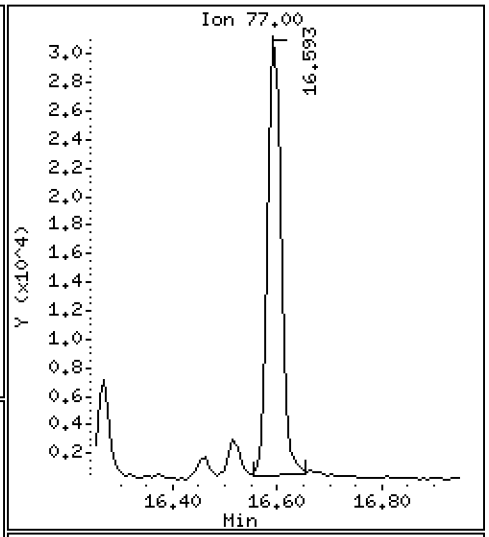
Concentration: 0.5383 ug/mL

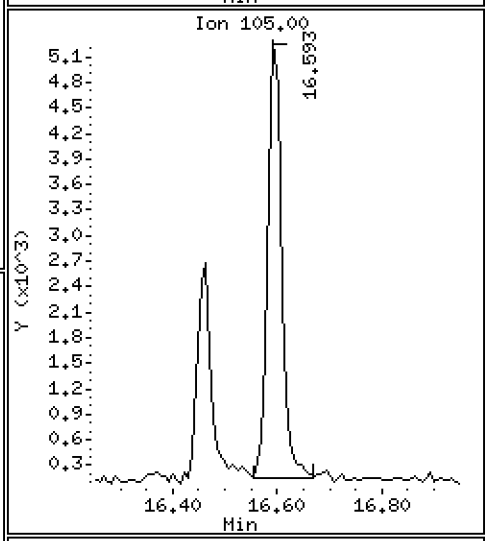


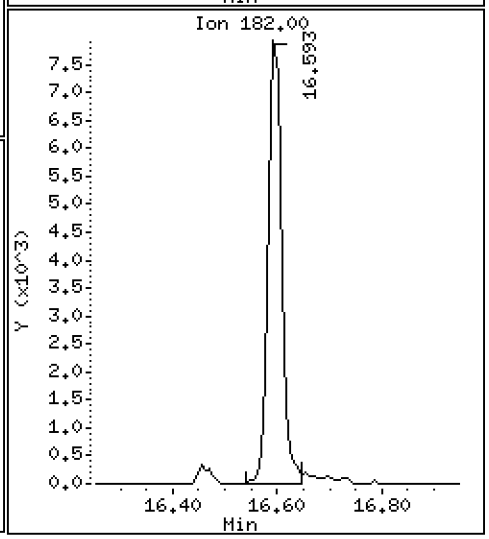












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

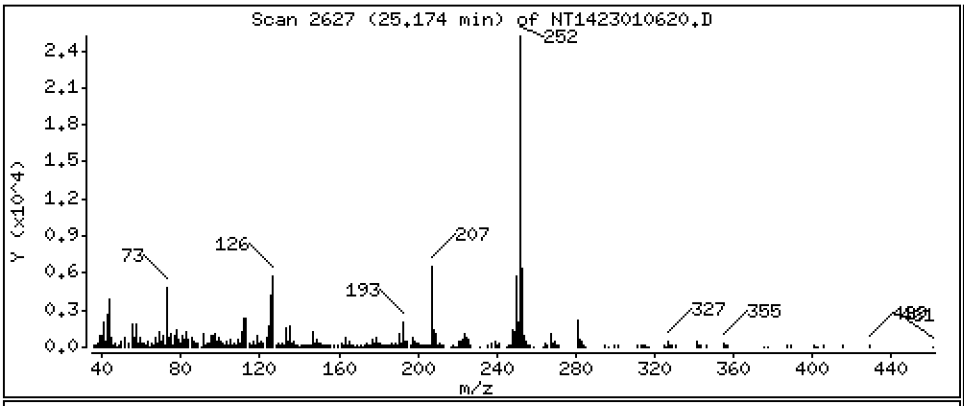
Operator: VTS

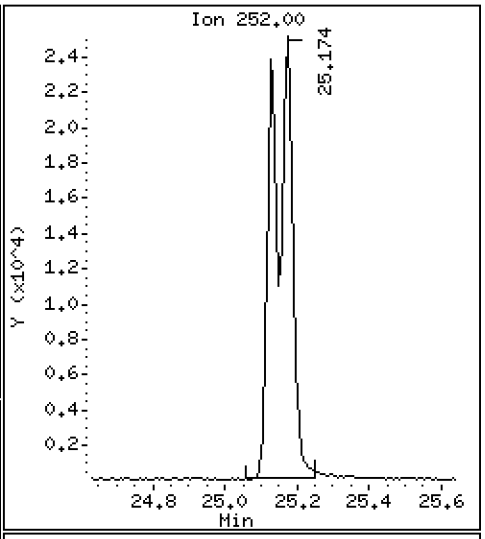
Column phase: ZB-5msi

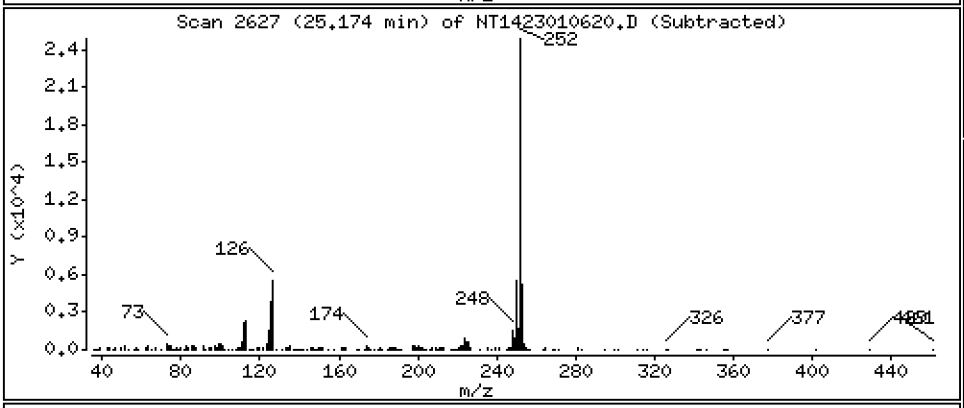
Column diameter: 0.25

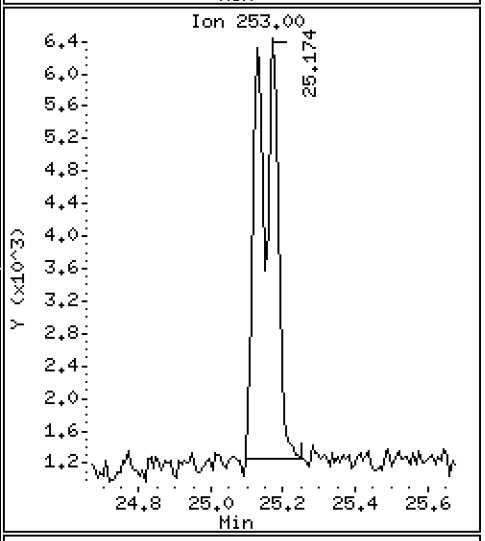
187 Total Benzofluoranthenes

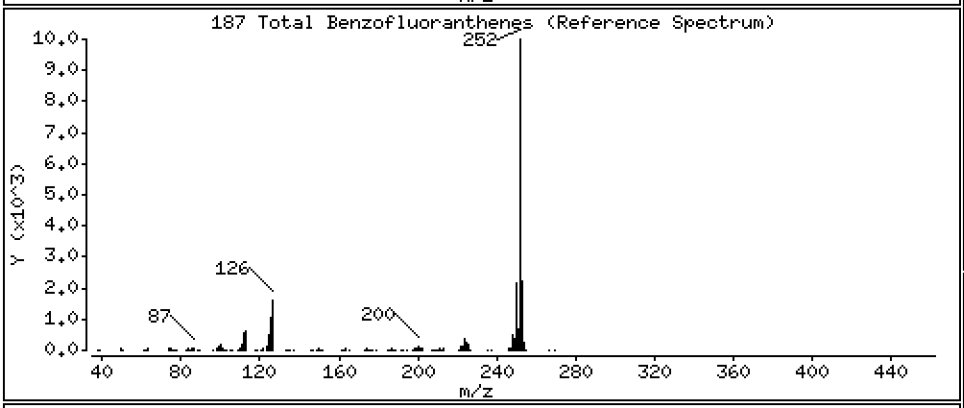
Concentration: 0.8641 ug/mL

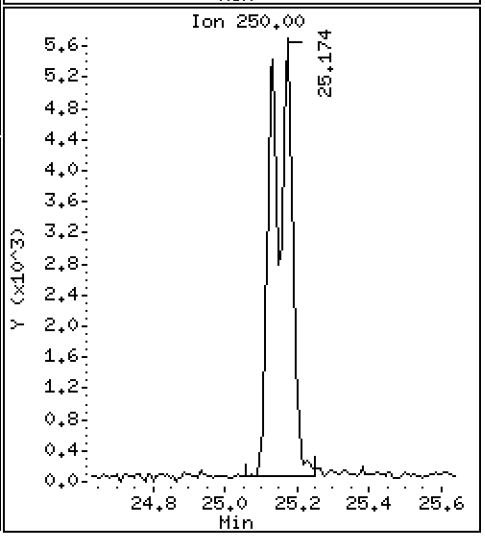


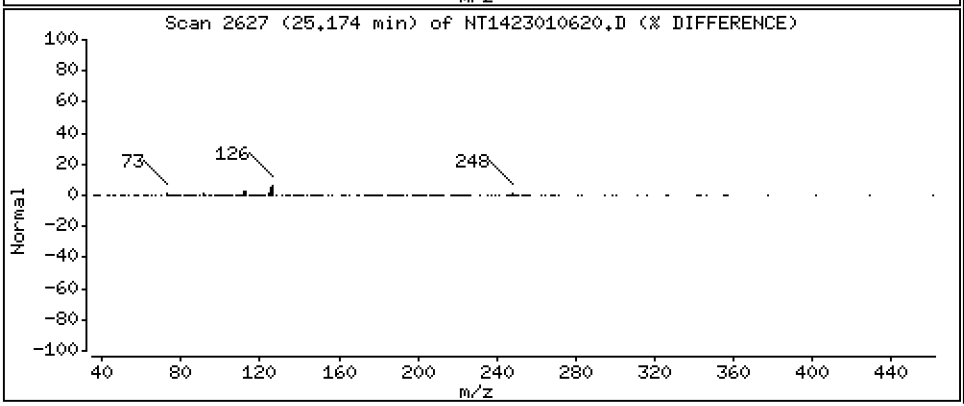












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Date : 06-JAN-2023 23:03

Client ID:

Instrument: nt14.i

Sample Info: SLA0068-LCV2

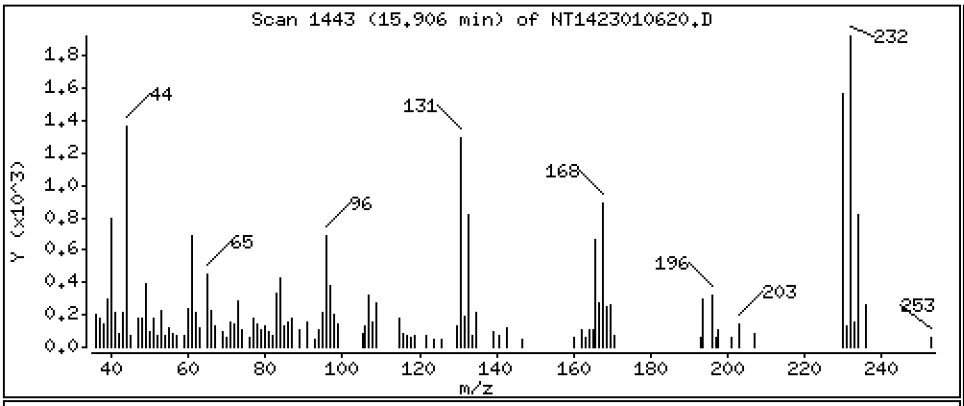
Operator: VTS

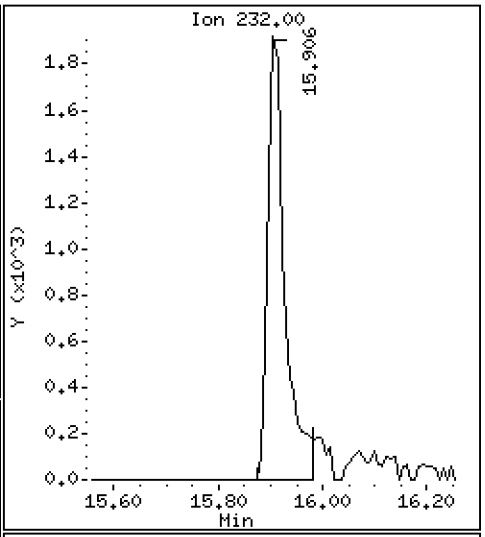
Column phase: ZB-5msi

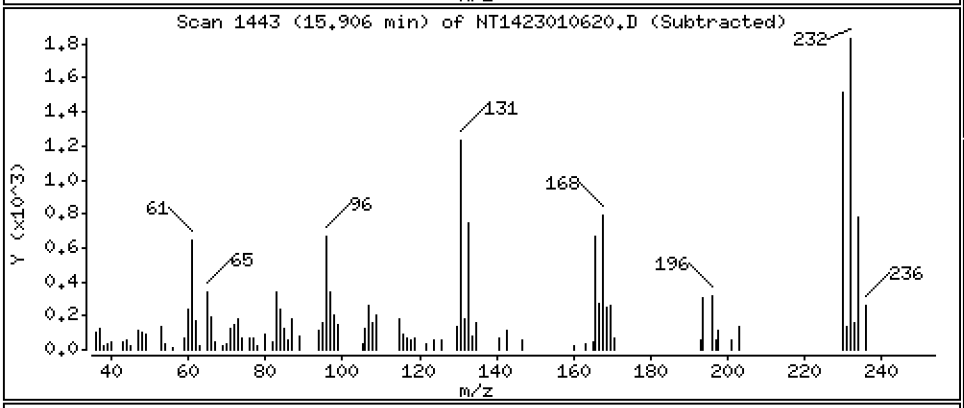
Column diameter: 0.25

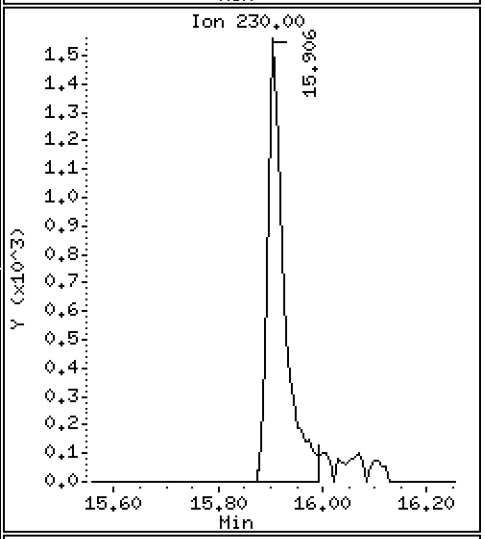
120 2,3,4,6-Tetrachlorophenol

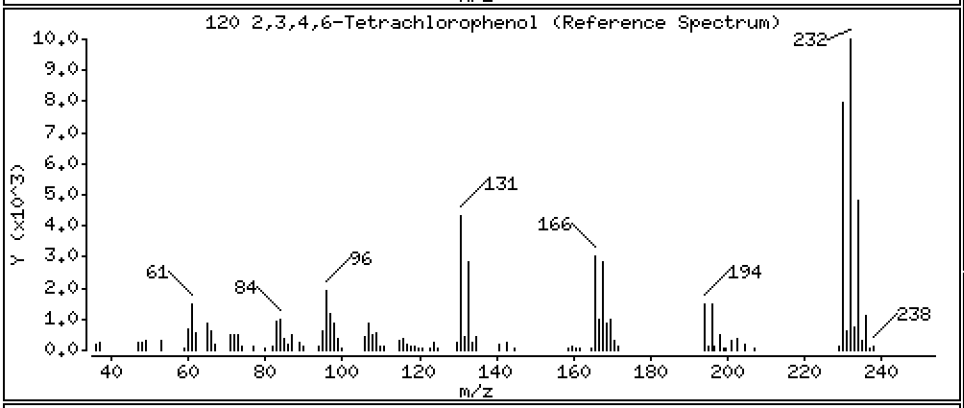
Concentration: 0.2279 ug/mL

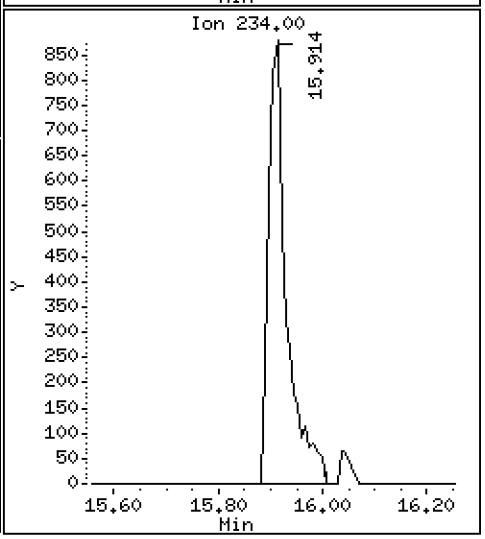


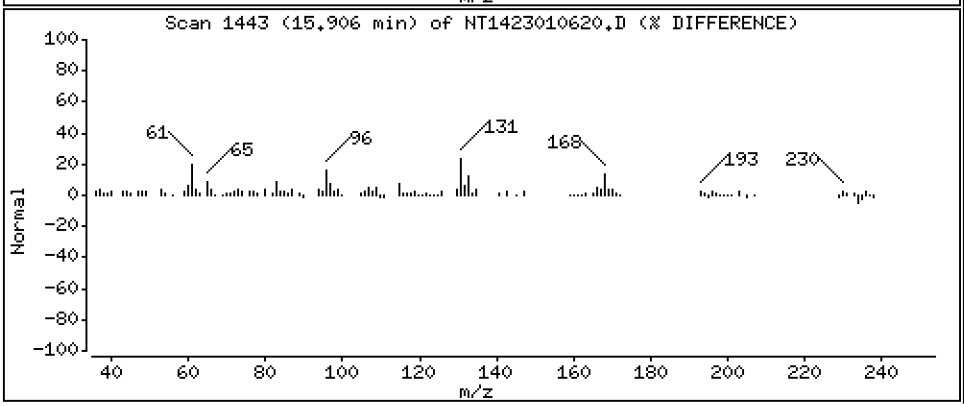












ARI Labs, Inc.

Semivolatile Report SW846 Method 8270D

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Inj Date : 06-JAN-2023 23:03 MS Autotune Date: 17-MAY-2011 01:22
Operator : VTS Inst ID: nt14.i
Smp Info : SLA0068-LCV2
Misc Info :
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Meth Date : 12-Jan-2023 08:12 van Quant Type: ISTD
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Als bottle: 3
Dil Factor: 1.00000
Integrator: HP RTE Compound Sublist: ICAL.sub
Target Version: 4.14
Processing Host: VANS-201906

							CONCENTRATIONS	
	Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
$	1 2-Fluorophenol	112	6.811	6.811	(0.754)	29640	0.63731	0.6373
$	2 Phenol-d5	99	8.403	8.403	(0.930)	33186	0.57740	0.5774
	3 Phenol	94	8.426	8.426	(0.932)	23676	0.36253	0.3625
$	5 2-Chlorophenol-d4	132	8.673	8.673	(0.960)	31074	0.64375	0.6438
	4 Bis(2-Chloroethyl)ether	93	8.573	8.580	(0.949)	21388	0.47541	0.4754
	6 2-Chlorophenol	128	8.704	8.704	(0.963)	22267	0.42003	0.4200
	7 1,3-Dichlorobenzene	146	8.975	8.975	(0.993)	26475	0.47097	0.4710
*	8 1,4-Dichlorobenzene-d4	152	9.037	9.037	(1.000)	145168	4.00000	
	9 1,4-Dichlorobenzene	146	9.068	9.068	(1.003)	24625	0.46240	0.4624
$	10 1,2-Dichlorobenzene-d4	152	9.402	9.401	(1.040)	15089	0.45736	0.4574
	12 1,2-Dichlorobenzene	146	9.425	9.425	(1.043)	24098	0.46140	0.4614
	11 Benzyl alcohol	108	9.549	9.308	(1.057)	18219	0.62665	0.6266
	14 2,2'-oxybis(1-Chloropropane)	121	9.611	9.611	(1.064)	6964	0.45991	0.4599(M)
	13 2-Methylphenol	108	9.549	9.549	(1.057)	18671	0.39344	0.3934
	17 Hexachloroethane	117	10.023	10.022	(1.109)	9108	0.46501	0.4650
	16 N-Nitroso-di-n-propylamine	70	9.867	9.867	(1.092)	14903	0.51552	0.5155
	15 4-Methylphenol	108	9.821	9.813	(1.087)	16520	0.32999	0.3300
$	18 Nitrobenzene-d5	82	10.131	10.131	(0.878)	22117	0.49232	0.4923
	19 Nitrobenzene	77	10.170	10.170	(0.882)	21966	0.49233	0.4923
	20 Isophorone	82	10.620	10.620	(0.921)	27545	0.48441	0.4844
	21 2-Nitrophenol	139	10.806	10.806	(0.937)	11746	0.43021	0.4302
	22 2,4-Dimethylphenol	107	10.868	10.868	(0.942)	33304	0.71521	0.7152
	23 Bis(2-Chloroethoxy)methane	93	11.054	11.054	(0.958)	20464	0.46261	0.4626
	24 Benzoic acid	105	10.985	11.062	(0.952)	2945	0.10392	0.1039
	25 2,4-Dichlorophenol	162	11.272	11.271	(0.977)	24339	0.62008	0.6201
	26 1,2,4-Trichlorobenzene	180	11.450	11.449	(0.993)	23266	0.54819	0.5482
*	27 Naphthalene-d8	136	11.535	11.534	(1.000)	532003	4.00000	
	28 Naphthalene	128	11.581	11.581	(1.004)	61481	0.46959	0.4696
	29 4-Chloroaniline	127	11.704	11.712	(1.015)	43723	0.80980	0.8098
	30 Hexachlorobutadiene	225	11.952	11.951	(1.036)	12098	0.57451	0.5745
	31 4-Chloro-3-methylphenol	107	12.702	12.686	(1.101)	21619	0.58365	0.5836
	32 2-Methylnaphthalene	142	12.981	12.981	(1.125)	41365	0.43072	0.4307
	33 Hexachlorocyclopentadiene	237	13.453	13.453	(0.887)	2097	0.10435	0.1043

			QUANT SIG					CONCENTRATIONS	
		Compounds	MASS	RT	EXP RT	REL RT	RESPONSE	ON-COLUMN (ug/mL)	FINAL (ug/mL)
	34	2,4,6-Trichlorophenol	196	13.608	13.607	(0.897)	14103	0.63556	0.6356
	35	2,4,5-Trichlorophenol	196	13.693	13.693	(0.903)	13410	0.52362	0.5236
$	36	2-Fluorobiphenyl	172	13.770	13.770	(0.908)	41058	0.45933	0.4593
	37	2-Chloronaphthalene	162	13.979	13.979	(0.921)	35653	0.46885	0.4689
	38	2-Nitroaniline	65	14.235	14.234	(0.938)	17514	0.87604	0.8760
	39	Dimethylphthalate	163	14.668	14.668	(0.967)	36354	0.48488	0.4849
	40	Acenaphthylene	152	14.854	14.853	(0.979)	53141	0.45832	0.4583
	41	2,6-Dinitrotoluene	165	14.807	14.807	(0.976)	14034	0.82942	0.8294
*	42	Acenaphthene-d10	164	15.171	15.171	(1.000)	265857	4.00000	
	43	3-Nitroaniline	138	15.094	15.093	(0.995)	16826	0.81817	0.8182
	44	Acenaphthene	153	15.233	15.240	(1.004)	33512	0.46599	0.4660
	45	2,4-Dinitrophenol	184	15.318	15.302	(1.010)	713	0.04962	0.04962
	46	Dibenzofuran	168	15.565	15.565	(1.026)	48807	0.45257	0.4526
	47	4-Nitrophenol	109	15.472	15.433	(1.020)	2553	0.25941	0.2594
	48	2,4-Dinitrotoluene	165	15.619	15.619	(1.030)	17452	0.75175	0.7518
	50	Diethylphthalate	149	16.130	16.137	(1.063)	54021	0.53010	0.5301
	49	Fluorene	166	16.276	16.284	(1.073)	53603	0.46723	0.4672
	51	4-Chlorophenyl-phenylether	204	16.269	16.268	(1.072)	23619	0.42051	0.4205
	52	4-Nitroaniline	138	16.361	16.361	(1.078)	18687	0.75439	0.7544
	53	4,6-Dinitro-2-methylphenol	198	16.461	16.461	(0.904)	9488	0.50460	0.5046
	54	N-Nitrosodiphenylamine	169	16.515	16.523	(0.907)	34148	0.44445	0.4445
$	55	2,4,6-Tribromophenol	330	16.816	16.816	(1.108)	5687	0.45603	0.4560
	56	4-Bromophenyl-phenylether	248	17.279	17.278	(0.949)	12575	0.43223	0.4322
	57	Hexachlorobenzene	284	17.596	17.595	(0.966)	14504	0.45429	0.4543
	58	Pentachlorophenol	266	17.960	17.952	(0.986)	1069	0.07732	0.07732
*	59	Phenanthrene-d10	188	18.215	18.215	(1.000)	447747	4.00000	
	60	Phenanthrene	178	18.261	18.269	(1.003)	52744	0.45180	0.4518
	61	Anthracene	178	18.354	18.362	(1.008)	51350	0.46076	0.4608
	62	Carbazole	167	18.687	18.687	(1.026)	48402	0.44925	0.4493
	63	Di-n-butylphthalate	149	19.484	19.491	(1.070)	58515	0.48004	0.4800
	64	Fluoranthene	202	20.652	20.652	(0.888)	52735	0.47783	0.4778
	65	Pyrene	202	21.078	21.077	(0.906)	55409	0.47751	0.4775
$	66	Terphenyl-d14	244	21.364	21.364	(0.918)	38337	0.46595	0.4659
	67	Butylbenzylphthalate	149	22.285	22.285	(0.958)	24890	0.56799	0.5680
	68	Benzo(a)anthracene	228	23.245	23.245	(0.999)	47963	0.46193	0.4619
*	69	Chrysene-d12	240	23.269	23.276	(1.000)	342757	4.00000	
	70	3,3'-Dichlorobenzidine	252	23.199	23.199	(0.997)	46709	1.46952	1.470
	71	Chrysene	228	23.315	23.315	(1.002)	45006	0.45888	0.4589
	72	bis(2-Ethylhexyl)phthalate	149	23.315	23.315	(0.960)	34090	0.50575	0.5058
*	134	Di-n-octylphthalate-d4	153	24.298	24.298	(1.000)	606933	4.00000	
	73	Di-n-octylphthalate	149	24.306	24.314	(1.000)	68846	0.47255	0.4726
	74	Benzo(b)fluoranthene	252	25.127	25.134	(0.970)	46308	0.40565	0.4056
	75	Benzo(k)fluoranthene	252	25.173	25.173	(0.972)	53847	0.46344	0.4634
	76	Benzo(a)pyrene	252	25.785	25.785	(0.996)	45450	0.47893	0.4789
*	77	Perylene-d12	264	25.901	25.901	(1.000)	363248	4.00000	
	78	Indeno(1,2,3-cd)pyrene	276	28.567	28.574	(1.103)	51432	0.47675	0.4768
	79	Dibenzo(a,h)anthracene	278	28.590	28.582	(1.104)	42743	0.46625	0.4663
	80	Benzo(g,h,i)perylene	276	29.351	29.351	(1.133)	40108	0.44380	0.4438
	90	N-Nitrosodimethylamine	74	Compound Not Detected.					
	91	Aniline	93	8.488	8.487	(0.939)	56358	0.88628	0.8863
	93	Benzidine	184	20.892	20.884	(0.898)	38087	0.90521	0.9052
	103	Pyridine	79	4.649	4.633	(0.514)	47538	0.46707	0.4671
	105	1-methylnaphthalene	142	13.205	13.205	(1.145)	41120	0.44563	0.4456
	111	Azobenzene (1,2-DP-Hydrazine)	77	16.592	16.600	(1.094)	53149	0.53834	0.5383

Compounds	QUANT SIG MASS	RT	EXP RT	REL RT	RESPONSE	CONCENTRATIONS ON-COLUMN (ug/mL)	CONCENTRATIONS FINAL (ug/mL)
187 Total Benzofluoranthenes	252	25.173	25.134	(0.972)	95373	0.86415	0.8641
120 2,3,4,6-Tetrachlorophenol	232	15.905	15.905	(1.048)	4269	0.22792	0.2279

QC Flag Legend

M - Compound response manually integrated.

ARI Labs, Inc.

INTERNAL STANDARD COMPOUNDS
AREA AND RT SUMMARY

Instrument ID: nt14.i
Lab File ID: NT1423010620.D
Lab Smp Id: SLA0068-LCV2
Analysis Type: SV
Quant Type: ISTD
Operator: VTS
Method File: \\target\share\chem3\nt14.i\20230106.b\ABN.m
Misc Info:

Calibration Date: 06-JAN-2023
Calibration Time: 22:27
Level:
Sample Type:

Test Mode:
Use Last Continuing Calibrator.

		AREA LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	114022	57011	228044	145168	27.32
27 Naphthalene-d8	420653	210327	841306	532003	26.47
42 Acenaphthene-d10	216802	108401	433604	265857	22.63
59 Phenanthrene-d10	366121	183061	732242	447747	22.29
69 Chrysene-d12	276883	138442	553766	342757	23.79
134 Di-n-octylphthala	540641	270321	1081282	606933	12.26
77 Perylene-d12	308305	154153	616610	363248	17.82

		RT LIMIT			
COMPOUND	STANDARD	LOWER	UPPER	SAMPLE	%DIFF
8 1,4-Dichlorobenze	9.04	8.54	9.54	9.04	0.00
27 Naphthalene-d8	11.53	11.03	12.03	11.54	0.00
42 Acenaphthene-d10	15.17	14.67	15.67	15.17	0.00
59 Phenanthrene-d10	18.22	17.72	18.72	18.22	0.00
69 Chrysene-d12	23.28	22.78	23.78	23.27	-0.03
134 Di-n-octylphthala	24.30	23.80	24.80	24.30	0.00
77 Perylene-d12	25.90	25.40	26.40	25.90	0.00

AREA UPPER LIMIT = +100% of internal standard area.
AREA LOWER LIMIT = - 50% of internal standard area.
RT UPPER LIMIT = + 0.50 minutes of internal standard RT.
RT LOWER LIMIT = - 0.50 minutes of internal standard RT.

REVIEW SUMMARY FOR FILE - NT1423010620.D

Lab ID: SLA0068-LCV2
nt14.i, 20230106.b\ABN.m,   06-JAN-2023 23:03

RT	CO-ELUTION COMPOUNDS

NO CO-ELUTIONS

Quant Method: ICAL

RRT CHECK

RRT	CCV RRT	DELTA	COMPOUND
1.057	1.030	0.0266	Benzyl alcohol
0.952	0.959	-0.0067	Benzoic acid

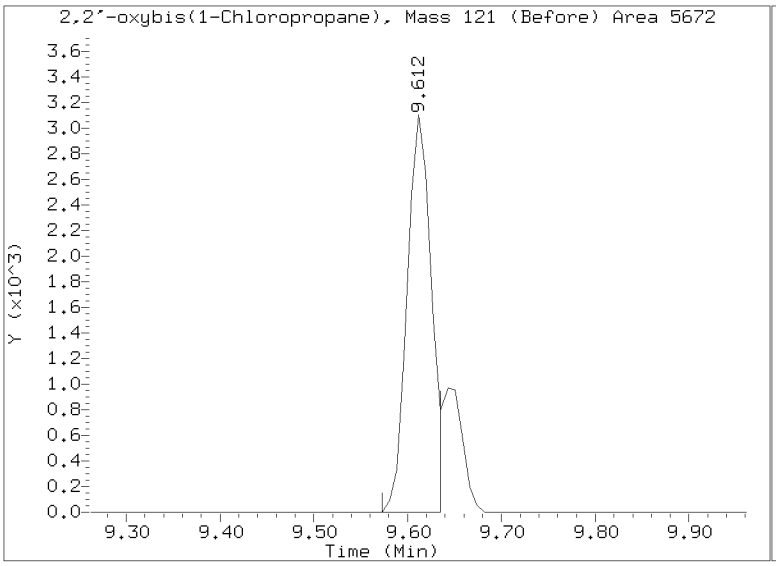
RRT check based on Ccal File: NT1423010619.D

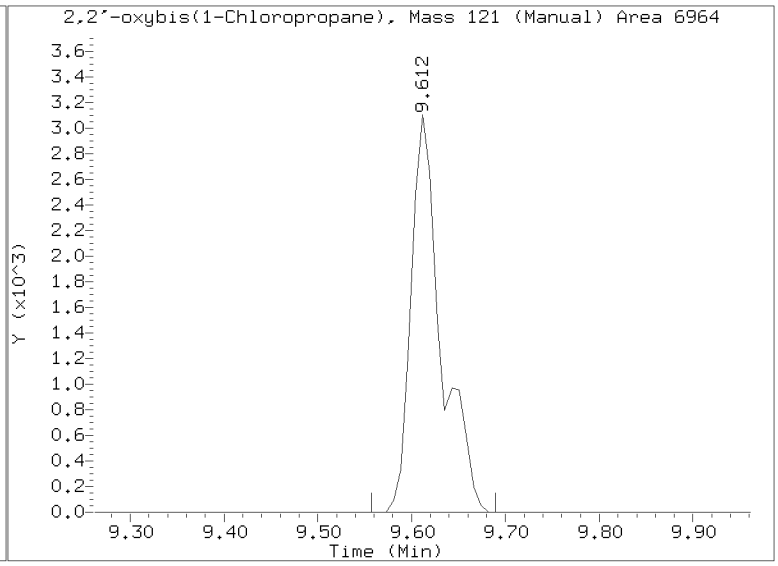
On Column LOD for nt14.i, 20230106.b\ABN.m, ICAL.sub = 0.0000

* Only compounds listed in the work order have been verified by the analyst *

Quant Ion Manual Peak Adjustment Report

Datafile: //target/share/chem3/nt14.i/20230106.b/NT1423010620.D
Injection Date: 06-JAN-2023 23:03
Lab ID:SLA0068-LCV2 Client ID:
Report Date: 01/12/2023 08:13





ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0355
Instrument: NT14
Calibration: FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ABN 0.2	SKL0355-LCV3	NT1422123067.D	NA	01/01/23 00:06
ABN 0.5	SKL0355-LCV4	NT1422123068.D	NA	01/01/23 00:42
ZZZZZ	BKL0193-BLK1	NT1422123069.D	Solid	01/01/23 01:18
ZZZZZ	BKL0193-BS1	NT1422123070.D	Solid	01/01/23 01:53
ZZZZZ	BKL0193-BSD1	NT1422123071.D	Solid	01/01/23 02:29
ZZZZZ	BKL0193-SRM1	NT1422123072.D	Solid	01/01/23 03:05
ZZZZZ	22L0104-01	NT1422123073.D	Solid	01/01/23 03:41
ZZZZZ	22L0104-02	NT1422123074.D	Solid	01/01/23 04:17
ZZZZZ	22L0136-01	NT1422123075.D	Solid	01/01/23 04:53
ZZZZZ	22L0136-08	NT1422123076.D	Solid	01/01/23 05:29
ZZZZZ	22L0136-09	NT1422123077.D	Solid	01/01/23 06:05
ZZZZZ	BKL0193-MS1	NT1422123078.D	Solid	01/01/23 06:41
ZZZZZ	BKL0193-MSD1	NT1422123079.D	Solid	01/01/23 07:17
ZZZZZ	22L0136-10	NT1422123080.D	Solid	01/01/23 07:53
ZZZZZ	22L0136-11	NT1422123081.D	Solid	01/01/23 08:29
ZZZZZ	22L0136-12	NT1422123082.D	Solid	01/01/23 09:05
ABN 5	SKL0355-CCV1	NT1422123083.D	NA	01/01/23 09:41
MS Tune	SKL0355-TUN1	NT1422123001.D	NA	12/30/22 07:53
CAL 5	SKL0355-CAL5	NT1422123002.D	NA	12/30/22 08:06
CAL 20	SKL0355-CAL7	NT1422123003.D	NA	12/30/22 08:42
CAL 0.2	SKL0355-CAL1	NT1422123004.D	NA	12/30/22 09:18
CAL 10	SKL0355-CAL6	NT1422123005.D	NA	12/30/22 09:54
CAL 0.5	SKL0355-CAL2	NT1422123006.D	NA	12/30/22 10:30
CAL 2.5	SKL0355-CAL4	NT1422123007.D	NA	12/30/22 11:07
CAL 1.0	SKL0355-CAL3	NT1422123008.D	NA	12/30/22 11:43
SICV1	SKL0355-ICV1	NT1422123011.D	NA	12/30/22 13:31
Initial Cal Blank	SKL0355-ICB1	NT1422123012.D	NA	12/30/22 14:08
ABN 5	SKL0355-ICV2	NT1422123014.D	NA	12/30/22 15:53
ZZZZZ	22K0241-02RE1	NT1422123038.D	Solid	12/31/22 06:20

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0355

SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: NT14
Calibration: FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
ZZZZZ	22K0399-08RE1	NT1422123039.D	Solid	12/31/22 06:56
ZZZZZ	22K0399-19RE1	NT1422123040.D	Solid	12/31/22 07:32
ZZZZZ	22K0399-22RE1	NT1422123041.D	Solid	12/31/22 08:08
ZZZZZ	22K0399-29RE1	NT1422123042.D	Solid	12/31/22 08:44
ABN 5	SKL0355-ICV4	NT1422123049.D	NA	12/31/22 13:17
ABN 0.2	SKL0355-LCV1	NT1422123051.D	NA	12/31/22 14:29
ABN 0.5	SKL0355-LCV2	NT1422123052.D	NA	12/31/22 15:05
ZZZZZ	22K0021-01RE1	NT1422123060.D	Solid	12/31/22 19:54
ZZZZZ	22K0045-01RE1	NT1422123061.D	Solid	12/31/22 20:30
ZZZZZ	22K0045-02RE1	NT1422123062.D	Solid	12/31/22 21:06
ZZZZZ	22K0045-03RE1	NT1422123063.D	Solid	12/31/22 21:42
ZZZZZ	22K0045-04RE1	NT1422123064.D	Solid	12/31/22 22:18
ZZZZZ	22K0045-05RE1	NT1422123065.D	Solid	12/31/22 22:54
ABN 5	SKL0355-ICV5	NT1422123066.D	NA	12/31/22 23:30

Printed: 1/4/2023 8:44:50AM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831				
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	19		K010831				Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	20		K010831				Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	21		K010831				Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	22		K010831				Added 12/20/2022 by VTS

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	23		K010831				Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	24		K010831				Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		25	K011109	K010831				
BKL0193-BLK1	Blank	QC		26		K010831				
BKL0193-BS1	LCS	QC		27		K010831				
BKL0193-BSD1	LCS Dup	QC		28		K010831				
BKL0193-SRM1	Reference	QC		29		K010831				
BKL0193-MS1	Matrix Spike	QC		30		K010831				
BKL0193-MSD1	Matrix Spike Dup	QC		31		K010831				
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	32		K010831				
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	33		K010831				If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	34		K010831				
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	35		K010831				
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	36		K010831				
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	37		K010831				
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	38		K010831				
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	39		K010831				
SKL0355-CCV1	ABN 5	QC		40	K011109	K010834				

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																			
1	0753	NT1422123001.D	SKL0355-TUN1		1	|NO ISTDS FOUND||																		
2	0806	NT1422123002.D	SKL0355-CAL5		1	| 9.18	151013	||11.69	553510	||15.33	305411	||18.38	491708	||23.42	424740	||26.10	395150	||24.44	684951 |					
3	0842	NT1422123003.D	SKL0355-CAL7		1	| 9.18	143300	||11.70	507556	||15.33	290278	||18.38	423275	||23.42	399899	||26.11	359748	||24.44	687276 |					
4	0918	NT1422123004.D	SKL0355-CAL1		1	| 9.18	156948	||11.69	570074	||15.33	297614	||18.37	498496	||23.41	404183	||26.10	371728	||24.44	540769 |					
5	0954	NT1422123005.D	SKL0355-CAL6		1	| 9.18	144388	||11.69	520524	||15.33	291597	||18.38	457445	||23.42	408635	||26.10	373712	||24.44	652062 |					
6	1030	NT1422123006.D	SKL0355-CAL2		1	| 9.18	156057	||11.69	571985	||15.33	301808	||18.37	495600	||23.41	403440	||26.10	378046	||24.44	538411 |					
7	1107	NT1422123007.D	SKL0355-CAL4		1	| 9.18	144333	||11.69	532256	||15.33	287473	||18.37	465065	||23.41	401380	||26.10	368275	||24.44	554407 |					
8	1143	NT1422123008.D	SKL0355-CAL3		1	| 9.18	148086	||11.69	558364	||15.33	288519	||18.37	472142	||23.41	394732	||26.10	370479	||24.44	526757 |					
9	1219	NT1422123009.D	SKL0356-CAL1		1	| 9.18	146141	||11.69	533259	||15.33	275387	||18.37	457503	||23.41	370157	||26.10	345259	||24.44	434329 |					
10	1255	NT1422123010.D			1	| 9.18	150179	||11.69	554597	||15.33	282107	||18.37	470125	||23.41	374625	||26.10	352812	||24.44	438400 |					
11	1331	NT1422123011.D	SKL0355-ICV1		1	| 9.18	145276	||11.69	542519	||15.33	292314	||18.37	478070	||23.42	412507	||26.10	379639	||24.44	590464 |					
12	1408	NT1422123012.D	SKL0355-ICB1		1	| 9.18	174509	||11.69	641934	||15.33	335436	||18.37	560033	||23.41	444498	||26.10	423100	||24.44	541261 |					
13	1516	NT1422123013.D	NOT USING		1	| 9.18	146864	||11.69	550707	||15.33	275006	||18.37	643649	||23.42	583196	||26.11	599166	||24.44	900001 |					
14	1553	NT1422123014.D	SKL0355-ICV2		1	| 9.18	130476	||11.69	484478	||15.33	261445	||18.37	412822	||23.41	349122	||26.10	327130	||24.44	522046 |					
15	1629	NT1422123015.D			1	| 9.18	132066	||11.69	499724	||15.33	257503	||18.37	413048	||23.41	335724	||26.09	308207	||24.44	434247 |					
16	1705	NT1422123016.D	BKK0733-BLK1		1	| 9.18	126906	||11.69	483124	||15.32	256877	||18.37	444495	||23.41	333261	||26.09	320178	||24.44	495841 |					
17	1741	NT1422123017.D	BKK0733-BS1		1	| 9.18	124003	||11.69	465208	||15.33	251001	||18.37	418062	||23.41	342657	||26.10	324681	||24.44	577170 |					
18	1818	NT1422123018.D	BKK0733-BSD1		1	| 9.18	124976	||11.69	467689	||15.33	258016	||18.37	428907	||23.41	356316	||26.09	340564	||24.44	643011 |					
19	1854	NT1422123019.D	22K0399-01		1	| 9.18	121953	||11.69	458530	||15.32	242934	||18.37	396367	||23.41	291013	||26.10	344522	||24.44	561675 |					
20	1930	NT1422123020.D	BKK0733-MS1		1	| 9.18	115884	||11.69	434586	||15.33	230677	||18.38	374636	||23.42	295274	||26.11	347439	||24.44	560195 |					

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

	Time	Filename	LabID	ClientId	DF																
21	2006	NT1422123021.D	BKK0733-MSD1		1	9.18	115038	11.69	422786	15.33	231453	18.38	377450	23.42	296619	26.11	342779	24.44	551214		
22	2042	NT1422123022.D	22K0399-07		1	9.18	118717	11.69	440463	15.33	235964	18.38	394316	23.42	287701	26.11	334549	24.44	535369		
23	2119	NT1422123023.D	22K0399-08		1	9.18	119344	11.69	442541	15.33	234795	18.38	389401	23.42	283797	26.11	329236	24.44	507254		
24	2155	NT1422123024.D	22K0399-31		1	9.18	120549	11.69	456717	15.33	235065	18.38	385218	23.42	290921	26.12	332471	24.44	522799		
25	2231	NT1422123025.D	22K0399-43		1	9.18	115488	11.69	438973	15.33	230528	18.38	372346	23.42	316873	26.13	312137	24.45	540998		
26	2307	NT1422123026.D	22K0399-44		1	9.18	114799	11.69	429093	15.33	225512	18.38	375444	23.42	344033	26.14	334179	24.45	548267		
27	2343	NT1422123027.D	BKK0733-SRM1		1	9.18	116509	11.69	420160	15.33	224093	18.38	385101	23.42	308820	26.10	324504	24.44	539884		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230.b

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0753	NT1422123001.D	SKL0355-TUN1	1	NO MANUAL INTEGRATION
0806	NT1422123002.D	SKL0355-CAL5	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene,
0842	NT1422123003.D	SKL0355-CAL7	1	2,2'-oxybis(1-Chloropropane),
0918	NT1422123004.D	SKL0355-CAL1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
0954	NT1422123005.D	SKL0355-CAL6	1	2,2'-oxybis(1-Chloropropane),
1030	NT1422123006.D	SKL0355-CAL2	1	2,2'-oxybis(1-Chloropropane), Benzoic acid,
1107	NT1422123007.D	SKL0355-CAL4	1	2,2'-oxybis(1-Chloropropane),
1143	NT1422123008.D	SKL0355-CAL3	1	2,2'-oxybis(1-Chloropropane),
1219	NT1422123009.D	SKL0356-CAL1	1	NO MANUAL INTEGRATION
1255	NT1422123010.D		1	NO MANUAL INTEGRATION
1331	NT1422123011.D	SKL0355-ICV1	1	NO MANUAL INTEGRATION
1408	NT1422123012.D	SKL0355-ICB1	1	NO MANUAL INTEGRATION
1516	NT1422123013.D		1	NO MANUAL INTEGRATION
1553	NT1422123014.D	SKL0355-ICV2	1	NO MANUAL INTEGRATION
1629	NT1422123015.D		1	NO MANUAL INTEGRATION
1705	NT1422123016.D	BKK0733-BLK1	1	NO MANUAL INTEGRATION
1741	NT1422123017.D	BKK0733-BS1	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 30-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1818	NT1422123018.D	BKK0733-BSD1	1	NO MANUAL INTEGRATION
1854	NT1422123019.D	22K0399-01	1	NO MANUAL INTEGRATION
1930	NT1422123020.D	BKK0733-MS1	1	NO MANUAL INTEGRATION
2006	NT1422123021.D	BKK0733-MSD1	1	NO MANUAL INTEGRATION
2042	NT1422123022.D	22K0399-07	1	NO MANUAL INTEGRATION
2119	NT1422123023.D	22K0399-08	1	NO MANUAL INTEGRATION
2155	NT1422123024.D	22K0399-31	1	NO MANUAL INTEGRATION
2231	NT1422123025.D	22K0399-43	1	NO MANUAL INTEGRATION
2307	NT1422123026.D	22K0399-44	1	NO MANUAL INTEGRATION
2343	NT1422123027.D	BKK0733-SRM1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 08:39

NT1422123001.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123002.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123003.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123004.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123005.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123006.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123007.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123008.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123009.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123010.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123011.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123012.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123013.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123014.D	Data Locked	van, 04-Jan-2023 08:39
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NT1422123016.D	Data Locked	van, 04-Jan-2023 08:39
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NT1422123019.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123020.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123021.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123022.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123023.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123024.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123025.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123026.D	Data Locked	van, 04-Jan-2023 08:39
NT1422123027.D	Data Locked	van, 04-Jan-2023 08:39

Printed: 1/4/2023 2:49:19PM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SKL0355-TUN1	MS Tune	QC		1	K004775		12/30/2022 07:53	NT1422123001.D	VTS	
SKL0355-CAL5	CAL 5	QC		2	K011109	K010831	12/30/2022 08:06	NT1422123002.D	VTS	
SKL0355-CAL7	CAL 20	QC		3	K011111	K010831	12/30/2022 08:42	NT1422123003.D	VTS	
SKL0355-CAL1	CAL 0.2	QC		4	K011105	K010831	12/30/2022 09:18	NT1422123004.D	VTS	
SKL0355-CAL6	CAL 10	QC		5	K011110	K010831	12/30/2022 09:54	NT1422123005.D	VTS	
SKL0355-CAL2	CAL 0.5	QC		6	K011106	K010831	12/30/2022 10:30	NT1422123006.D	VTS	
SKL0355-CAL4	CAL 2.5	QC		7	K011108	K010831	12/30/2022 11:07	NT1422123007.D	VTS	
SKL0355-CAL3	CAL 1.0	QC		8	K011107	K010831	12/30/2022 11:43	NT1422123008.D	VTS	
SKL0355-ICV1	SICV1	QC		9	K010066	K010831	12/30/2022 13:31	NT1422123011.D	VTS	
SKL0355-ICB1	Initial Cal Blank	QC		10	K005156	K010831	12/30/2022 14:08	NT1422123012.D	VTS	
SKL0355-ICV2	ABN 5	QC		11	K011109	K010831	12/30/2022 15:53	NT1422123014.D	VTS	
SKL0355-ICV3	ABN 5	QC		12	K011109	K010831				
22K0241-02RE1	HL-20221110	(20ug/kg solid or 0.2ug/L l	D 03	13		K010831	12/31/2022 06:20	NT1422123038.D	VTS	Added 1/3/2023 by VTS
22K0399-08RE1	DM-15-S-Dup	(20ug/kg solid or 0.2ug/L l	B 01	14		K010831	12/31/2022 06:56	NT1422123039.D	VTS	Added 12/24/2022 by VTS
22K0399-19RE1	DM-20-C-0-1	(20ug/kg solid or 0.2ug/L l	B 01	15		K010831	12/31/2022 07:32	NT1422123040.D	VTS	Added 12/23/2022 by VTS
22K0399-22RE1	DM-11-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	16		K010831	12/31/2022 08:08	NT1422123041.D	VTS	Added 12/23/2022 by VTS
22K0399-29RE1	DM-08-C-1-3	(20ug/kg solid or 0.2ug/L l	B 01	17		K010831	12/31/2022 08:44	NT1422123042.D	VTS	Added 12/31/2022 by VTS
SKL0355-ICV4	ABN 5	QC		18	K011109	K010831	12/31/2022 13:17	NT1422123049.D	VTS	
SKL0355-LCV1	ABN 0.2	QC		19	K011105	K010831	12/31/2022 14:29	NT1422123051.D	VTS	
SKL0355-LCV2	ABN 0.5	QC		20	K011106	K010831	12/31/2022 15:05	NT1422123052.D	VTS	
BKL0091-BLK1	Blank	QC		21		K010831	12/31/2022 16:54	NT1422123055.D	VTS	
BKL0091-BS1	LCS	QC		22		K010831	12/31/2022 17:30	NT1422123056.D	VTS	

Printed: 1/4/2023 2:49:19PM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0091-BSD1	LCS Dup	QC		23		K010831	12/31/2022 18:06	NT1422123057.D	VTS	
22L0029-01	SS-12-01-2022	625 SVOC 0.2ug/L	B 01	24		K010831	12/31/2022 18:42	NT1422123058.D	VTS	version
22L0065-03	304881-10	625 SVOC 0.2ug/L	B 01	25		K010831	12/31/2022 19:18	NT1422123059.D	VTS	Version
22K0021-01RE1	EWWST9-110122	(20ug/kg solid or 0.2ug/L l	A 02	26		K010831	12/31/2022 19:54	NT1422123060.D	VTS	Added 12/20/2022 by VTS
22K0045-01RE1	304509-01	(20ug/kg solid or 0.2ug/L l	A 02	27		K010831	12/31/2022 20:30	NT1422123061.D	VTS	Added 12/20/2022 by VTS
22K0045-02RE1	304509-02	(20ug/kg solid or 0.2ug/L l	A 02	28		K010831	12/31/2022 21:06	NT1422123062.D	VTS	Added 12/20/2022 by VTS
22K0045-03RE1	304509-03	(20ug/kg solid or 0.2ug/L l	A 02	29		K010831	12/31/2022 21:42	NT1422123063.D	VTS	Added 12/20/2022 by VTS
22K0045-04RE1	304509-04	(20ug/kg solid or 0.2ug/L l	A 02	30		K010831	12/31/2022 22:18	NT1422123064.D	VTS	Added 12/20/2022 by VTS
22K0045-05RE1	304509-05	(20ug/kg solid or 0.2ug/L l	A 02	31		K010831	12/31/2022 22:54	NT1422123065.D	VTS	Added 12/20/2022 by VTS
SKL0355-ICV5	ABN 5	QC		32	K011109	K010831	12/31/2022 23:30	NT1422123066.D	VTS	
SKL0355-LCV3	ABN 0.2	QC		33	K011105	K010831	01/01/2023 00:06	NT1422123067.D	VTS	
SKL0355-LCV4	ABN 0.5	QC		34	K011106	K010831	01/01/2023 00:42	NT1422123068.D	VTS	
BKL0193-BLK1	Blank	QC		35		K010831	01/01/2023 01:18	NT1422123069.D	VTS	
BKL0193-BS1	LCS	QC		36		K010831	01/01/2023 01:53	NT1422123070.D	VTS	
BKL0193-BSD1	LCS Dup	QC		37		K010831	01/01/2023 02:29	NT1422123071.D	VTS	
BKL0193-SRM1	Reference	QC		38		K010831	01/01/2023 03:05	NT1422123072.D	VTS	
22L0104-01	LDW22-SS773	(20ug/kg solid or 0.2ug/L l	B 02	39		K010831	01/01/2023 03:41	NT1422123073.D	VTS	
22L0104-02	LDW22-SS774	(20ug/kg solid or 0.2ug/L l	B 02	40		K010831	01/01/2023 04:17	NT1422123074.D	VTS	If started finish and hold extract
22L0136-01	LDW22-SS823	(20ug/kg solid or 0.2ug/L l	A 02	41		K010831	01/01/2023 04:53	NT1422123075.D	VTS	
22L0136-08	LDW22-SS786	(20ug/kg solid or 0.2ug/L l	A 02	42		K010831	01/01/2023 05:29	NT1422123076.D	VTS	
22L0136-09	LDW22-SS766	(20ug/kg solid or 0.2ug/L l	A 02	43		K010831	01/01/2023 06:05	NT1422123077.D	VTS	
BKL0193-MS1	Matrix Spike	QC		44		K010831	01/01/2023 06:41	NT1422123078.D	VTS	

Printed: 1/4/2023 2:49:19PM

ANALYSIS SEQUENCE

SKL0355

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 221222.U
EM Voltage: 1647

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
BKL0193-MSD1	Matrix Spike Dup	QC		45		K010831	01/01/2023 07:17	NT1422123079.D	VTS	
22L0136-10	LDW22-SS771	(20ug/kg solid or 0.2ug/L l	A 02	46		K010831	01/01/2023 07:53	NT1422123080.D	VTS	
22L0136-11	LDW22-SS771-FD	(20ug/kg solid or 0.2ug/L l	A 02	47		K010831	01/01/2023 08:29	NT1422123081.D	VTS	
22L0136-12	LDW22-SS772	(20ug/kg solid or 0.2ug/L l	A 02	48		K010831	01/01/2023 09:05	NT1422123082.D	VTS	
SKL0355-CCV1	ABN 5	QC		49	K011109	K010834	01/01/2023 09:41	NT1422123083.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

| | Time | Filename | LabID | ClientId | DF | | |

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

| | Time | Filename | LabID | ClientId | DF | | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230A.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
0019	NT1422123028.D	SKL0355-ICV2	1	2,2'-oxybis(1-Chloropropane),
0055	NT1422123029.D	SKL0356-ICV2	1	NO MANUAL INTEGRATION
0131	NT1422123030.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
0207	NT1422123031.D	BKK0560-BS2	1	NO MANUAL INTEGRATION
0243	NT1422123032.D	BKK0560-BSD2	1	NO MANUAL INTEGRATION
0320	NT1422123033.D	22K0212-01	1	NO MANUAL INTEGRATION
0356	NT1422123034.D	22K0299-01 2X	1	NO MANUAL INTEGRATION
0432	NT1422123035.D	22K0310-01	1	NO MANUAL INTEGRATION
0508	NT1422123036.D	BKK0560-MS1	1	NO MANUAL INTEGRATION
0544	NT1422123037.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
0620	NT1422123038.D	22K0241-02RE1	4	2-Methylphenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
0656	NT1422123039.D	22K0399-08RE1	2	2-Methylphenol,
0732	NT1422123040.D	22K0399-19RE1	10	NO MANUAL INTEGRATION
0808	NT1422123041.D	22K0399-22RE1	5	2-Methylphenol,
0844	NT1422123042.D	22K0399-29RE1	2	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0940	NT1422123043.D	BKK0560-BLK2	1	NO MANUAL INTEGRATION
1016	NT1422123044.D	BKK0560-BS2	1	NO MANUAL INTEGRATION

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1052	NT1422123045.D		1	NO MANUAL INTEGRATION
1128	NT1422123046.D		1	NO MANUAL INTEGRATION
1204	NT1422123047.D		1	NO MANUAL INTEGRATION
1240	NT1422123048.D		1	NO MANUAL INTEGRATION

Security Status Report

Date: 04-Jan-2023 14:50

NT1422123028.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123029.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123030.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123031.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123032.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123033.D	Data Locked	van, 04-Jan-2023 14:50
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NT1422123037.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123038.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123039.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123040.D	Data Locked	van, 04-Jan-2023 14:50
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NT1422123043.D	Data Locked	van, 04-Jan-2023 14:50
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NT1422123046.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123047.D	Data Locked	van, 04-Jan-2023 14:50
NT1422123048.D	Data Locked	van, 04-Jan-2023 14:50

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

	Time	Filename	LabID	ClientId	DF																			
1	1317	NT1422123049.D	SKL0355-ICV4		1	9.17	134439	11.68	492388	15.32	270679	18.37	429616	23.41	376030	26.09	336225	24.43	634628					
2	1353	NT1422123050.D	SKL0356-ICV4		1	9.17	126626	11.67	474047	15.31	242925	18.36	394559	23.41	316434	26.09	278983	24.43	504730					
3	1429	NT1422123051.D	SKL0355-LCV1		1	9.17	116397	11.67	425902	15.31	216598	18.36	347572	23.41	288877	26.09	247727	24.43	433122					
4	1505	NT1422123052.D	SKL0355-LCV2		1	9.17	120125	11.67	431181	15.31	221457	18.36	356219	23.41	294883	26.09	255506	24.43	439623					
5	1542	NT1422123053.D	BKK0560-MSD1		1	9.17	99244	11.67	363071	15.32	194217	18.36	318169	23.41	250764	26.09	239534	24.43	452805					
6	1618	NT1422123054.D	SKL0356-CCV1		1	9.17	125371	11.67	466507	15.31	239021	18.36	383047	23.40	322456	26.09	270669	24.42	505735					
7	1654	NT1422123055.D	BKL0091-BLK1		1	9.17	99940	11.67	356917	15.31	176772	18.36	298313	23.41	231661	26.09	199476	24.42	354510					
8	1730	NT1422123056.D	BKL0091-BS1		1	9.17	99350	11.67	352626	15.31	181758	18.36	289259	23.40	244140	26.09	212744	24.42	391584					
9	1806	NT1422123057.D	BKL0091-BSD1		1	9.17	97838	11.67	347207	15.31	180405	18.36	287059	23.40	238168	26.09	211088	24.43	387775					
10	1842	NT1422123058.D	22L0029-01		1	9.17	98638	11.67	383631	15.32	183285	18.37	326543	23.41	257753	26.09	243042	24.43	443851					
11	1918	NT1422123059.D	22L0065-03		1	9.17	103123	11.67	370933	15.31	191942	18.36	315771	23.40	243416	26.09	230791	24.42	429069					
12	1954	NT1422123060.D	22K0021-01RE1		1	9.17	100572	11.67	369922	15.31	198185	18.36	335740	23.42	361646	26.13	299060	24.44	512390					
13	2030	NT1422123061.D	22K0045-01RE1		1	9.17	109934	11.67	397551	15.31	204112	18.36	352470	23.41	303836	26.09	277088	24.42	502168					
14	2106	NT1422123062.D	22K0045-02RE1		1	9.17	103386	11.67	379073	15.31	195673	18.36	336828	23.40	264182	26.09	259801	24.42	460365					
15	2142	NT1422123063.D	22K0045-03RE1		1	9.16	109866	11.67	406488	15.31	210384	18.36	361943	23.40	279423	26.09	266664	24.42	493139					
16	2218	NT1422123064.D	22K0045-04RE1		1	9.16	99529	11.67	362743	15.31	191674	18.36	329098	23.40	257260	26.09	249194	24.42	448541					
17	2254	NT1422123065.D	22K0045-05RE1		1	9.16	111816	11.67	406931	15.31	217553	18.35	374767	23.40	297381	26.09	286134	24.42	520451					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230B.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1317	NT1422123049.D	SKL0355-ICV4	1	2,2'-oxybis(1-Chloropropane),
1353	NT1422123050.D	SKL0356-ICV4	1	NO MANUAL INTEGRATION
1429	NT1422123051.D	SKL0355-LCV1	1	2,2'-oxybis(1-Chloropropane), Benzoic acid, 2,4,5-Trichlorophenol, 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlo 2,4,6-Tribromophenol,
1505	NT1422123052.D	SKL0355-LCV2	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol, Pentachlorophenol,
1542	NT1422123053.D	BKK0560-MSD1	1	NO MANUAL INTEGRATION
1618	NT1422123054.D	SKL0356-CCV1	1	NO MANUAL INTEGRATION
1654	NT1422123055.D	BKL0091-BLK1	1	NO MANUAL INTEGRATION
1730	NT1422123056.D	BKL0091-BS1	1	NO MANUAL INTEGRATION
1806	NT1422123057.D	BKL0091-BSD1	1	NO MANUAL INTEGRATION
1842	NT1422123058.D	22L0029-01	1	Benzoic acid,
1918	NT1422123059.D	22L0065-03	1	NO MANUAL INTEGRATION
1954	NT1422123060.D	22K0021-01RE1	1	Di-n-octylphthalate, Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,
2030	NT1422123061.D	22K0045-01RE1	1	Benzo(a)anthracene,
2106	NT1422123062.D	22K0045-02RE1	1	Benzo(a)anthracene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2142	NT1422123063.D	22K0045-03RE1	1	Benzo(k)fluoranthene, Indeno(1,2,3-cd)pyrene,
2218	NT1422123064.D	22K0045-04RE1	1	Phenol, Benzo(k)fluoranthene, Benzo(a)pyrene, Benzo(g,h,i)perylene, Total Benzofluoranthenes,
2254	NT1422123065.D	22K0045-05RE1	1	Phenol, Indeno(1,2,3-cd)pyrene, Dibenzo(a,h)anthracene,

Security Status Report

Date: 04-Jan-2023 14:52

NT1422123049.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123050.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123051.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123052.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123053.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123054.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123055.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123056.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123057.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123058.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123059.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123060.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123061.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123062.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123063.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123064.D	Data Locked	van, 04-Jan-2023 14:51
NT1422123065.D	Data Locked	van, 04-Jan-2023 14:51

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

	Time	Filename	LabID	ClientId	DF																			
1	2330	NT1422123066.D	SKL0355-ICV5		1	9.16	138755	11.67	501723	15.31	275234	18.36	440085	23.40	384795	26.09	336665	24.42	674530					
2	0006	NT1422123067.D	SKL0355-LCV3		1	9.16	109143	11.67	397029	15.31	204214	18.36	329657	23.40	269585	26.09	227797	24.42	449369					
3	0042	NT1422123068.D	SKL0355-LCV4		1	9.16	113715	11.67	412900	15.30	210199	18.35	341756	23.40	291897	26.09	229756	24.42	463051					
4	0118	NT1422123069.D	BKL0193-BLK1		1	9.16	92113	11.67	329342	15.30	165382	18.35	271589	23.40	203703	26.09	177895	24.42	341255					
5	0153	NT1422123070.D	BKL0193-BS1		1	9.16	84612	11.67	308541	15.30	159985	18.35	260655	23.40	212958	26.08	183421	24.42	356784					
6	0229	NT1422123071.D	BKL0193-BSD1		1	9.16	84823	11.67	309397	15.30	158920	18.35	257888	23.40	212537	26.08	179497	24.41	355260					
7	0305	NT1422123072.D	BKL0193-SRM1		1	9.16	86260	11.67	315083	15.30	159935	18.35	269812	23.40	210765	26.08	179115	24.41	355122					
8	0341	NT1422123073.D	22L0104-01		1	9.16	87784	11.67	313493	15.30	158263	18.35	272846	23.39	207110	26.08	191935	24.42	367137					
9	0417	NT1422123074.D	22L0104-02		1	9.16	89149	11.67	317814	15.30	157290	18.35	268147	23.40	207625	26.09	176715	24.41	362397					
10	0453	NT1422123075.D	22L0136-01		1	9.16	86977	11.67	316023	15.30	157738	18.35	264591	23.40	220146	26.09	207692	24.42	390811					
11	0529	NT1422123076.D	22L0136-08		1	9.16	90666	11.67	324201	15.30	166361	18.35	280620	23.40	221328	26.09	206533	24.41	398181					
12	0605	NT1422123077.D	22L0139-09		1	9.16	89268	11.67	320325	15.30	163472	18.35	273676	23.40	214156	26.08	184962	24.41	378021					
13	0641	NT1422123078.D	BKL0193-MS1		1	9.16	84281	11.67	304250	15.30	157987	18.35	258132	23.40	204763	26.08	182161	24.42	376384					
14	0717	NT1422123079.D	BKL0193-MSD1		1	9.16	83089	11.67	297062	15.30	153282	18.35	252454	23.40	203015	26.08	180272	24.42	365012					
15	0753	NT1422123080.D	22L0136-10		1	9.16	85176	11.67	314063	15.30	159047	18.35	264157	23.40	208161	26.09	193384	24.42	370682					
16	0829	NT1422123081.D	22L0136-11		1	9.16	86936	11.67	318066	15.30	160091	18.35	269454	23.40	204439	26.09	187850	24.41	373381					
17	0905	NT1422123082.D	22L0136-12		1	9.16	85389	11.67	310291	15.30	157429	18.35	260367	23.40	202993	26.09	188657	24.42	372056					
18	0941	NT1422123083.D	SKL0355-CCV1		1	9.16	133778	11.67	496301	15.30	271703	18.35	424221	23.40	389585	26.08	298756	24.41	687974					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20221230C.b

Instrument: nt14.i Date: 31-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2330	NT1422123066.D	SKL0355-ICV5	1	2,2'-oxybis(1-Chloropropane),
0006	NT1422123067.D	SKL0355-LCV3	1	Benzyl alcohol, Benzoic acid, 4-Nitrophenol, 4-Nitroaniline, Pentachlorophenol,
0042	NT1422123068.D	SKL0355-LCV4	1	2,2'-oxybis(1-Chloropropane), 2,4-Dinitrophenol, 4-Nitrophenol,
0118	NT1422123069.D	BKL0193-BLK1	1	NO MANUAL INTEGRATION
0153	NT1422123070.D	BKL0193-BS1	1	NO MANUAL INTEGRATION
0229	NT1422123071.D	BKL0193-BSD1	1	NO MANUAL INTEGRATION
0305	NT1422123072.D	BKL0193-SRM1	1	Benzoic acid,
0341	NT1422123073.D	22L0104-01	1	Benzyl alcohol, Benzo(k)fluoranthene,
0417	NT1422123074.D	22L0104-02	1	NO MANUAL INTEGRATION
0453	NT1422123075.D	22L0136-01	1	Benzoic acid, Benzo(k)fluoranthene,
0529	NT1422123076.D	22L0136-08	1	Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,
0605	NT1422123077.D	22L0139-09	1	Benzo(k)fluoranthene,
0641	NT1422123078.D	BKL0193-MS1	1	NO MANUAL INTEGRATION
0717	NT1422123079.D	BKL0193-MSD1	1	NO MANUAL INTEGRATION
0753	NT1422123080.D	22L0136-10	1	2-Methylphenol, Benzoic acid, Dibenzo(a,h)anthracene,
0829	NT1422123081.D	22L0136-11	1	Benzoic acid, Di-n-octylphthalate, Dibenzo(a,h)anthracene,
0905	NT1422123082.D	22L0136-12	1	Benzoic acid, Butylbenzylphthalate, Benzo(k)fluoranthene, Dibenzo(a,h)anthracene,

Instrument: nt14.i Date: 01-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0941	NT1422123083.D	SKL0355-CCV1	1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 04-Jan-2023 14:53

NT1422123066.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123067.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123068.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123069.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123070.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123071.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123072.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123073.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123074.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123075.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123076.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123077.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123078.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123079.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123080.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123081.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123082.D	Data Locked	van, 04-Jan-2023 14:53
NT1422123083.D	Data Locked	van, 04-Jan-2023 14:53

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0012	Instrument:	NT10
		Calibration:	GA00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLA0012-TUN1	NT1023010401.D	NA	01/04/23 08:46
Initial Cal Blank	SLA0012-ICB1	NT1023010402.D	NA	01/04/23 09:07
CAL 20	SLA0012-CAL7	NT1023010404.D	NA	01/04/23 10:44
CAL 10	SLA0012-CAL6	NT1023010405.D	NA	01/04/23 11:51
CAL 5	SLA0012-CAL5	NT1023010406.D	NA	01/04/23 12:29
CAL 2.5	SLA0012-CAL4	NT1023010407.D	NA	01/04/23 13:07
CAL 1.0	SLA0012-CAL3	NT1023010408.D	NA	01/04/23 13:46
CAL 0.5	SLA0012-CAL2	NT1023010409.D	NA	01/04/23 14:24
CAL 0.2	SLA0012-CAL1	NT1023010410.D	NA	01/04/23 15:03
SCV 5.0	SLA0012-SCV1	NT1023010413.D	NA	01/04/23 16:58

ANALYSIS SEQUENCE

SLA0012

Instrument: NT10 Element Column ID: K005462
Calibration ID: GA00013 Tune File: 221229.u
EM Voltage: 2129

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0012-TUN1	MS Tune	QC		1	K008469		01/04/2023 08:46	NT1023010401.D	DSD	
SLA0012-ICB1	Initial Cal Blank	QC		2	K005156	K010831	01/04/2023 09:07	NT1023010402.D	VTS	
SLA0012-CAL7	CAL 20	QC		3	K011111	K010831	01/04/2023 10:44	NT1023010404.D	VTS	
SLA0012-CAL6	CAL 10	QC		4	K011110	K010831	01/04/2023 11:51	NT1023010405.D	VTS	
SLA0012-CAL5	CAL 5	QC		5	K011109	K010831	01/04/2023 12:29	NT1023010406.D	VTS	
SLA0012-CAL4	CAL 2.5	QC		6	K011108	K010831	01/04/2023 13:07	NT1023010407.D	VTS	
SLA0012-CAL3	CAL 1.0	QC		7	K011107	K010831	01/04/2023 13:46	NT1023010408.D	VTS	
SLA0012-CAL2	CAL 0.5	QC		8	K011106	K010831	01/04/2023 14:24	NT1023010409.D	VTS	
SLA0012-CAL1	CAL 0.2	QC		9	K011105	K010831	01/04/2023 15:03	NT1023010410.D	VTS	
SLA0012-SCV1	SCV 5.0	QC		10	K010066	K010831	01/04/2023 16:58	NT1023010413.D	VTS	
SLA0012-ICV1	SICV1	QC		11	K011109	K010831	01/04/2023 17:36	NT1023010414.D	VTS	
SLA0012-LCV1	ABN 0.2	QC		12	K011106	K010831	01/04/2023 18:53	NT1023010416.D	VTS	
SLA0012-CCV1	ABN 5	QC		13	K011109	K010831	01/05/2023 05:05	NT1023010432.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230104.b

	Time	Filename	LabID	ClientId	DF													
1	0846	NT1023010401.D	SLA0012-TUN1		1	|NO ISTDS FOUND||												
2	0907	NT1023010402.D	SLA0012-ICB1		1	| 9.67	83946||12.16	331747||15.79	144996||18.84	257969||23.85	144005||26.79	111332||24.90	338570|					
3	0946	NT1023010403.D	not used	not used	1	| 9.67	54268||12.17	210968||15.79	105152||18.85	170392||23.86	98301||26.81	91409||24.91	356756|					
4	1044	NT1023010404.D	SLA0012-CAL7		1	| 9.67	57997||12.17	220799||15.79	108828||18.85	177821||23.86	98143||26.80	88030||24.91	378301|					
5	1151	NT1023010405.D	SLA0012-CAL6		1	| 9.67	74375||12.17	281269||15.80	135789||18.85	229826||23.86	146395||26.80	102123||24.91	396316|					
6	1229	NT1023010406.D	SLA0012-CAL5		1	| 9.67	76684||12.16	296095||15.79	136492||18.84	239937||23.85	151837||26.79	98696||24.90	363176|					
7	1307	NT1023010407.D	SLA0012-CAL4		1	| 9.67	83197||12.16	319900||15.79	144919||18.84	260963||23.85	159977||26.80	103103||24.90	364708|					
8	1346	NT1023010408.D	SLA0012-CAL3		1	| 9.67	95500||12.16	360075||15.79	159191||18.84	282107||23.84	180863||26.79	109138||24.90	372889|					
9	1424	NT1023010409.D	SLA0012-CAL2		1	| 9.67	96063||12.16	365952||15.79	158556||18.84	284131||23.85	179277||26.79	110433||24.90	361323|					
10	1503	NT1023010410.D	SLA0012-CAL1		1	| 9.67	99684||12.16	387081||15.79	163545||18.84	291822||23.85	180506||26.80	109952||24.90	358121|					
11	1658	NT1023010413.D	SLA0012-SCV1		1	| 9.66	88595||12.16	350423||15.79	157902||18.84	291036||23.85	180135||26.80	113976||24.90	437929|					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230104.b

Instrument: nt10.i Date: 04-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0846	NT1023010401.D	SLA0012-TUN1	1	NO MANUAL INTEGRATION
0907	NT1023010402.D	SLA0012-ICB1	1	NO MANUAL INTEGRATION
0946	NT1023010403.D	not used	1	NO MANUAL INTEGRATION
1044	NT1023010404.D	SLA0012-CAL7	1	NO MANUAL INTEGRATION
1151	NT1023010405.D	SLA0012-CAL6	1	NO MANUAL INTEGRATION
1229	NT1023010406.D	SLA0012-CAL5	1	Pentachlorophenol,
1307	NT1023010407.D	SLA0012-CAL4	1	NO MANUAL INTEGRATION
1346	NT1023010408.D	SLA0012-CAL3	1	2,2'-oxybis(1-Chloropropane), Benzo(g,h,i)perylene, Phenol-d5,
1424	NT1023010409.D	SLA0012-CAL2	1	2,2'-oxybis(1-Chloropropane), N-Nitroso-di-n-propylamine, Isophorone, 2,4-Dinitrophenol, Benzo(g,h,i)perylene,
1503	NT1023010410.D	SLA0012-CAL1	1	2,2'-oxybis(1-Chloropropane), N-Nitroso-di-n-propylamine, Isophorone, 3-Nitroaniline, 2,4-Dinitrotoluene, Inde Dibenzo(a,h)anthracene, Benzo(g,h,i)perylene, N-Nitrosodimethylamine, Phenol-d5, Nitrobenzene-d5,
1658	NT1023010413.D	SLA0012-SCV1	1	NO MANUAL INTEGRATION

Security Status Report

Date: 17-Jan-2023 13:41

NT1023010401.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010402.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010403.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010404.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010405.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010406.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010407.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010408.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010409.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010410.D	Data Locked	van, 17-Jan-2023 13:41
NT1023010413.D	Data Locked	van, 17-Jan-2023 13:41

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0061	Instrument:	NT10
		Calibration:	GA00013

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLA0061-TUN1	NT1023010501.D	NA	01/05/23 13:22
Initial Cal Check	SLA0061-ICV1	NT1023010502.D	NA	01/05/23 13:58
ABN 0.2	SLA0061-LCV1	NT1023010503.D	NA	01/05/23 14:37
Blank	BKL0489-BLK1	NT1023010504.D	Solid	01/05/23 15:17
LCS	BKL0489-BS1	NT1023010505.D	Solid	01/05/23 15:56
LCS Dup	BKL0489-BSD1	NT1023010506.D	Solid	01/05/23 16:35
ZZZZZ	22L0155-56	NT1023010507.D	Solid	01/05/23 17:13
LDW22-IT810B	22L0246-08	NT1023010508.D	Solid	01/05/23 17:52
LDW22-IT810C	22L0246-09	NT1023010509.D	Solid	01/05/23 18:31
LDW22-IT810B-FD	22L0246-10	NT1023010510.D	Solid	01/05/23 19:09
LDW22-IT810B-FD	BKL0489-MS1	NT1023010511.D	Solid	01/05/23 19:48
LDW22-IT810B-FD	BKL0489-MSD1	NT1023010512.D	Solid	01/05/23 20:26
LDW22-IT810D	22L0246-11	NT1023010513.D	Solid	01/05/23 21:05
LDW22-IT810E	22L0246-12	NT1023010514.D	Solid	01/05/23 21:44
LDW22-IT810F	22L0246-13	NT1023010515.D	Solid	01/05/23 22:22
LDW22-IT810G	22L0246-14	NT1023010516.D	Solid	01/05/23 23:00
Reference	BKL0489-SRM1	NT1023010517.D	Solid	01/05/23 23:39
ABN 5	SLA0061-CCV1	NT1023010518.D	NA	01/06/23 00:17

Printed: 1/14/2023 1:26:05PM

ANALYSIS SEQUENCE

SLA0061

Instrument: NT10 Element Column ID: K005462
Calibration ID: GA00013 Tune File: 221229.U
EM Voltage: 2129

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0061-TUN1	MS Tune	QC		1	K008469		01/05/2023 13:22	NT1023010501.D	DSD	
SLA0061-ICV1	Initial Cal Check	QC		2	K011109	K010831	01/05/2023 13:58	NT1023010502.D	VTS	
SLA0061-LCV1	ABN 0.2	QC		3	K011106	K010831	01/05/2023 14:37	NT1023010503.D	VTS	
BKL0489-BLK1	Blank	QC		4		K010831	01/05/2023 15:17	NT1023010504.D	VTS	
BKL0489-BS1	LCS	QC		5		K010831	01/05/2023 15:56	NT1023010505.D	VTS	
BKL0489-BSD1	LCS Dup	QC		6		K010831	01/05/2023 16:35	NT1023010506.D	VTS	
22L0155-56	LDW22-SC803	(20ug/kg solid or 0.2ug/L l	B 02	7		K010831	01/05/2023 17:13	NT1023010507.D	VTS	
22L0246-08	LDW22-IT810B	(20ug/kg solid or 0.2ug/L l	C 01	8		K010831	01/05/2023 17:52	NT1023010508.D	VTS	
22L0246-09	LDW22-IT810C	(20ug/kg solid or 0.2ug/L l	C 01	9		K010831	01/05/2023 18:31	NT1023010509.D	VTS	
22L0246-10	LDW22-IT810B-FD	(20ug/kg solid or 0.2ug/L l	C 01	10		K010831	01/05/2023 19:09	NT1023010510.D	VTS	
BKL0489-MS1	Matrix Spike	QC		11		K010831	01/05/2023 19:48	NT1023010511.D	VTS	
BKL0489-MSD1	Matrix Spike Dup	QC		12		K010831	01/05/2023 20:26	NT1023010512.D	VTS	
22L0246-11	LDW22-IT810D	(20ug/kg solid or 0.2ug/L l	C 01	13		K010831	01/05/2023 21:05	NT1023010513.D	VTS	
22L0246-12	LDW22-IT810E	(20ug/kg solid or 0.2ug/L l	C 01	14		K010831	01/05/2023 21:44	NT1023010514.D	VTS	
22L0246-13	LDW22-IT810F	(20ug/kg solid or 0.2ug/L l	C 01	15		K010831	01/05/2023 22:22	NT1023010515.D	VTS	
22L0246-14	LDW22-IT810G	(20ug/kg solid or 0.2ug/L l	C	16		K010831	01/05/2023 23:00	NT1023010516.D	VTS	
BKL0489-SRM1	Reference	QC		17		K010831	01/05/2023 23:39	NT1023010517.D	VTS	
SLA0061-CCV1	ABN 5	QC		18	K011109	K010831	01/06/2023 00:17	NT1023010518.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230105.b

	Time	Filename	LabID	ClientId	DF																					
1	1322	NT1023010501.D	dftpp		1	|NO ISTDS FOUND||																			
2	1358	NT1023010502.D	SLA0061-ICV1		1	| 9.69	81725	|12.19	307034	|15.81	140557	|18.87	243620	|23.87	144852	|26.82	106683	|24.93	387178	|					
3	1437	NT1023010503.D	SLA0061-LCV1		1	| 9.68	96119	|12.17	368093	|15.79	153509	|18.85	283598	|23.85	181369	|26.79	114656	|24.90	361602	|					
4	1517	NT1023010504.D	BKL0489-BLK1		1	| 9.67	85411	|12.17	339220	|15.79	141024	|18.84	268312	|23.85	152913	|26.79	102385	|24.90	327735	|					
5	1556	NT1023010505.D	BKL0489-BS1		1	| 9.67	66003	|12.17	255276	|15.79	118290	|18.84	204433	|23.85	139051	|26.79	86789	|24.90	315214	|					
6	1635	NT1023010506.D	BKL0489-BSD1		1	| 9.67	67563	|12.16	264641	|15.79	115473	|18.84	203593	|23.85	139255	|26.79	87292	|24.90	334759	|					
7	1713	NT1023010507.D	22L0155-56		1	| 9.67	84534	|12.16	328248	|15.79	133392	|18.84	208976	|23.85	109552	|26.80	81912	|24.90	252357	|					
8	1752	NT1023010508.D	22L0246-08		1	| 9.67	82439	|12.16	323875	|15.79	122939	|18.84	192862	|23.85	106003	|26.80	81753	|24.90	261171	|					
9	1831	NT1023010509.D	22L0246-09		1	| 9.67	79016	|12.16	310562	|15.79	121288	|18.84	191461	|23.85	105002	|26.81	84869	|24.90	273402	|					
10	1909	NT1023010510.D	22L0246-10		1	| 9.67	78295	|12.16	304719	|15.79	119252	|18.84	188212	|23.85	98636	|26.81	84826	|24.90	267348	|					
11	1948	NT1023010511.D	BKL0489-MS1		1	| 9.67	66363	|12.16	241723	|15.79	105735	|18.85	175108	|23.86	89033	|26.82	83036	|24.90	289004	|					
12	2026	NT1023010512.D	BKL0489-MSD1		1	| 9.67	66392	|12.17	247057	|15.79	104461	|18.85	173975	|23.85	110091	|26.81	89342	|24.90	299400	|					
13	2105	NT1023010513.D	22L0246-11		1	| 9.67	76587	|12.17	310094	|15.79	118436	|18.85	190176	|23.85	100314	|26.82	84136	|24.90	262128	|					
14	2144	NT1023010514.D	22L0246-12		1	| 9.67	80446	|12.17	305518	|15.79	124094	|18.85	190326	|23.86	84284	|26.82	82213	|24.91	268276	|					
15	2222	NT1023010515.D	22L0246-13		1	| 9.67	80145	|12.17	314017	|15.79	121183	|18.85	192517	|23.86	90895	|26.82	85877	|24.91	279393	|					
16	2300	NT1023010516.D	22L0246-14		1	| 9.67	80804	|12.17	319040	|15.79	126430	|18.85	203822	|23.86	111613	|26.81	86063	|24.90	277666	|					
17	2339	NT1023010517.D	BKL0489-SRM1		1	| 9.67	74120	|12.17	277759	|15.79	115097	|18.84	216705	|23.85	122673	|26.80	82884	|24.90	320054	|					
18	0017	NT1023010518.D	SLA0061-CCV2		1	| 9.67	73500	|12.17	280657	|15.79	129917	|18.84	227790	|23.85	151350	|26.80	93071	|24.90	380500	|					

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt10.i\20230105.b

Instrument: nt10.i Date: 05-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
1322	NT1023010501.D	SLA0061-TUN1	1	NO MANUAL INTEGRATION
1358	NT1023010502.D	SLA0061-ICV1	1	Benzo(g,h,i)perylene,
1437	NT1023010503.D	SLA0061-LCV1	1	NO MANUAL INTEGRATION
1517	NT1023010504.D	BKL0489-BLK1	1	NO MANUAL INTEGRATION
1556	NT1023010505.D	BKL0489-BS1	1	NO MANUAL INTEGRATION
1635	NT1023010506.D	BKL0489-BSD1	1	NO MANUAL INTEGRATION
1713	NT1023010507.D	22L0155-56	1	NO MANUAL INTEGRATION
1752	NT1023010508.D	22L0246-08	1	NO MANUAL INTEGRATION
1831	NT1023010509.D	22L0246-09	1	NO MANUAL INTEGRATION
1909	NT1023010510.D	22L0246-10	1	NO MANUAL INTEGRATION
1948	NT1023010511.D	BKL0489-MS1	1	NO MANUAL INTEGRATION
2026	NT1023010512.D	BKL0489-MSD1	1	NO MANUAL INTEGRATION
2105	NT1023010513.D	22L0246-11	1	NO MANUAL INTEGRATION
2144	NT1023010514.D	22L0246-12	1	NO MANUAL INTEGRATION
2222	NT1023010515.D	22L0246-13	1	NO MANUAL INTEGRATION
2300	NT1023010516.D	22L0246-14	1	NO MANUAL INTEGRATION
2339	NT1023010517.D	BKL0489-SRM1	1	NO MANUAL INTEGRATION

Instrument: nt10.i Date: 06-JAN-2023

Time	Filename	LabID	DF	Manually Integrated Compounds
0017	NT1023010518.D	SLA0061-CCV1	1	NO MANUAL INTEGRATION
0055	NT1023010519.D	SLA0061-LCV2	1	NO MANUAL INTEGRATION
0134	NT1023010520.D	BLA0007-BLK1	1	NO MANUAL INTEGRATION
0212	NT1023010521.D	BLA0007-BS1	1	NO MANUAL INTEGRATION
0250	NT1023010522.D	BLA0007-BSD1	1	NO MANUAL INTEGRATION
0328	NT1023010523.D	22L0480-01	1	NO MANUAL INTEGRATION
0406	NT1023010524.D	SLA0061-CCV2	1	NO MANUAL INTEGRATION

Security Status Report

Date: 14-Jan-2023 13:26

NT1023010501.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010502.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010503.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010504.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010505.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010506.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010507.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010508.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010509.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010510.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010511.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010512.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010513.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010514.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010515.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010516.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010517.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010518.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010519.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010520.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010521.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010522.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010523.D	Data Locked	van, 14-Jan-2023 13:26
NT1023010524.D	Data Locked	van, 14-Jan-2023 13:26

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0068
Instrument: NT14
Calibration: FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
MS Tune	SLA0068-TUN1	NT1423010601.D	NA	01/06/23 11:52
ABN 5	SLA0068-ICV1	NT1423010602.D	NA	01/06/23 12:05
ABN 0.2	SLA0068-LCV1	NT1423010603.D	NA	01/06/23 12:48
ZZZZZ	BLA0007-BLK1	NT1423010607.D	Solid	01/06/23 15:13
ZZZZZ	BLA0007-BS1	NT1423010608.D	Solid	01/06/23 15:49
ZZZZZ	BLA0007-BSD1	NT1423010609.D	Solid	01/06/23 16:25
ZZZZZ	22L0480-01	NT1423010610.D	Solid	01/06/23 17:02
Blank	BKL0585-BLK1	NT1423010611.D	Solid	01/06/23 17:38
LCS	BKL0585-BS1	NT1423010612.D	Solid	01/06/23 18:14
LCS Dup	BKL0585-BSD1	NT1423010613.D	Solid	01/06/23 18:50
LDW22-IT809B	22L0246-43	NT1423010614.D	Solid	01/06/23 19:26
LDW22-IT809C	22L0246-44	NT1423010615.D	Solid	01/06/23 20:02
LDW22-IT809D	22L0246-45	NT1423010616.D	Solid	01/06/23 20:38
LDW22-IT809D	BKL0585-MS1	NT1423010617.D	Solid	01/06/23 21:15
LDW22-IT809D	BKL0585-MSD1	NT1423010618.D	Solid	01/06/23 21:51
SSTD005	SLA0068-ICV2	NT1423010619.D	NA	01/06/23 22:27
ABN 0.5	SLA0068-LCV2	NT1423010620.D	NA	01/06/23 23:03
Blank	BKL0585-BLK2	NT1423010621.D	Solid	01/06/23 23:39
LDW22-IT809E	22L0246-46	NT1423010622.D	Solid	01/07/23 00:15
LDW22-IT809F	22L0246-47	NT1423010623.D	Solid	01/07/23 00:51
LDW22-IT809G	22L0246-48	NT1423010624.D	Solid	01/07/23 01:27
ZZZZZ	22L0307-35	NT1423010625.D	Solid	01/07/23 02:03
ZZZZZ	22L0307-36	NT1423010626.D	Solid	01/07/23 02:39
ZZZZZ	22L0307-37	NT1423010627.D	Solid	01/07/23 03:15
ZZZZZ	22L0307-38	NT1423010628.D	Solid	01/07/23 03:51
ZZZZZ	22L0307-39	NT1423010629.D	Solid	01/07/23 04:27
ZZZZZ	22L0307-40	NT1423010630.D	Solid	01/07/23 05:03
ZZZZZ	22L0307-41	NT1423010631.D	Solid	01/07/23 05:39
ZZZZZ	22L0307-42	NT1423010632.D	Solid	01/07/23 06:15

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0068	Instrument:	NT14
		Calibration:	FL00066

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Reference	BKL0585-SRM1	NT1423010633.D	Solid	01/07/23 06:51
ABN 5	SLA0068-CCV1	NT1423010634.D	NA	01/07/23 07:27

Printed: 1/12/2023 9:50:48AM

ANALYSIS SEQUENCE

SLA0068

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 220803.u
EM Voltage: 1200

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
SLA0068-TUN1	MS Tune	QC		1	K004775		01/06/2023 11:52	NT1423010601.D	VTS	
SLA0068-ICV1	ABN 5	QC		2	K011109	K010831	01/06/2023 12:05	NT1423010602.D	VTS	
SLA0068-LCV1	ABN 0.2	QC		3	K011106	K010831	01/06/2023 12:48	NT1423010603.D	VTS	
BKL0507-BLK1	Blank	QC		4		K010831	01/06/2023 13:24	NT1423010604.D	VTS	
BKL0507-BS1	LCS	QC		5		K010831	01/06/2023 14:00	NT1423010605.D	VTS	
22L0445-01	305047-01	625 SVOC 0.2ug/L	B 01	6		K010831	01/06/2023 14:37	NT1423010606.D	VTS	Version
BLA0007-BLK1	Blank	QC		7		K010831	01/06/2023 15:13	NT1423010607.D	VTS	
BLA0007-BS1	LCS	QC		8		K010831	01/06/2023 15:49	NT1423010608.D	VTS	
BLA0007-BSD1	LCS Dup	QC		9		K010831	01/06/2023 16:25	NT1423010609.D	VTS	
22L0480-01	WM-122022	(20ug/kg solid or 0.2ug/L l	A 02	10		K010831	01/06/2023 17:02	NT1423010610.D	VTS	
BKL0585-BLK1	Blank	QC		11		K010831	01/06/2023 17:38	NT1423010611.D	VTS	
BKL0585-BS1	LCS	QC		12		K010831	01/06/2023 18:14	NT1423010612.D	VTS	
BKL0585-BSD1	LCS Dup	QC		13		K010831	01/06/2023 18:50	NT1423010613.D	VTS	
22L0246-43	LDW22-IT809B	(20ug/kg solid or 0.2ug/L l	C 01	14		K010831	01/06/2023 19:26	NT1423010614.D	VTS	
22L0246-44	LDW22-IT809C	(20ug/kg solid or 0.2ug/L l	C 01	15		K010831	01/06/2023 20:02	NT1423010615.D	VTS	
22L0246-45	LDW22-IT809D	(20ug/kg solid or 0.2ug/L l	C 01	16		K010831	01/06/2023 20:38	NT1423010616.D	VTS	
BKL0585-MS1	Matrix Spike	QC		17		K010831	01/06/2023 21:15	NT1423010617.D	VTS	
BKL0585-MSD1	Matrix Spike Dup	QC		18		K010831	01/06/2023 21:51	NT1423010618.D	VTS	
SLA0068-ICV2	SSTD005	QC		19	K011109	K010831	01/06/2023 22:27	NT1423010619.D	VTS	
SLA0068-LCV2	ABN 0.5	QC		20	K011106	K010831	01/06/2023 23:03	NT1423010620.D	VTS	
22L0246-46	LDW22-IT809E	(20ug/kg solid or 0.2ug/L l	C 01	21		K010831	01/07/2023 00:15	NT1423010622.D	VTS	
BKL0585-BLK2	Blank	QC		22		K010831	01/06/2023 23:39	NT1423010621.D	VTS	

ANALYSIS SEQUENCE

SLA0068

Instrument: NT14 Element Column ID: K005461
Calibration ID: FL00066 Tune File: 220803.u
EM Voltage: 1200

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	File ID	Analyst	Comments
22L0246-47	LDW22-IT809F	(20ug/kg solid or 0.2ug/L l	C 01	23		K010831	01/07/2023 00:51	NT1423010623.D	VTS	
22L0246-48	LDW22-IT809G	(20ug/kg solid or 0.2ug/L l	C 01	24		K010831	01/07/2023 01:27	NT1423010624.D	VTS	
22L0307-35	LDW22-SC804B	(20ug/kg solid or 0.2ug/L l	B 01	25		K010831	01/07/2023 02:03	NT1423010625.D	VTS	
22L0307-36	LDW22-SC804C	(20ug/kg solid or 0.2ug/L l	B 02	26		K010831	01/07/2023 02:39	NT1423010626.D	VTS	
22L0307-37	LDW22-SC804D	(20ug/kg solid or 0.2ug/L l	B 02	27		K010831	01/07/2023 03:15	NT1423010627.D	VTS	
22L0307-38	LDW22-SC804E	(20ug/kg solid or 0.2ug/L l	B 02	28		K010831	01/07/2023 03:51	NT1423010628.D	VTS	
22L0307-39	LDW22-SC804F	(20ug/kg solid or 0.2ug/L l	B 02	29		K010831	01/07/2023 04:27	NT1423010629.D	VTS	
22L0307-40	LDW22-SC804F-FD	(20ug/kg solid or 0.2ug/L l	B 02	30		K010831	01/07/2023 05:03	NT1423010630.D	VTS	
22L0307-41	LDW22-SC804G	(20ug/kg solid or 0.2ug/L l	B 02	31		K010831	01/07/2023 05:39	NT1423010631.D	VTS	
22L0307-42	LDW22-SC804H	(20ug/kg solid or 0.2ug/L l	B 02	32		K010831	01/07/2023 06:15	NT1423010632.D	VTS	
BKL0585-SRM1	Reference	QC		33		K010831	01/07/2023 06:51	NT1423010633.D	VTS	
SLA0068-CCV1	ABN 5	QC		34	K011109	K010831	01/07/2023 07:27	NT1423010634.D	VTS	

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

	Time	Filename	LabID	ClientId	DF																			
1	1205	NT1423010602.D	SLA0068-ICV1		1	9.04	134115	11.54	499117	15.17	260320	18.22	432406	23.27	317887	25.90	313716	24.30	664061
2	1248	NT1423010603.D	SLA0068-LCV1		1	9.04	163613	11.54	617145	15.17	303137	18.22	507941	23.27	385291	25.90	361053	24.30	688020
3	1324	NT1423010604.D	BKL0507-BLK1		1	9.04	125234	11.53	455271	15.17	209044	18.22	363433	23.27	263910	25.90	265869	24.30	470507
4	1400	NT1423010605.D	BKL0507-BS1		1	9.04	120702	11.54	448479	15.17	225788	18.22	373212	23.28	270534	25.90	266575	24.30	499826
5	1437	NT1423010606.D	22L0445-01		1	9.04	123458	11.54	466736	15.17	224279	18.22	375377	23.27	261354	25.90	241007	24.30	461856
6	1513	NT1423010607.D	BLA0007-BLK1		1	9.04	134694	11.53	481809	15.17	233986	18.22	391573	23.27	288922	25.90	274489	24.30	509855
7	1549	NT1423010608.D	BLA0007-BS1		1	9.04	128326	11.54	478019	15.17	238226	18.22	393533	23.28	285067	25.90	274875	24.30	534692
8	1625	NT1423010609.D	BLA0007-BSD1		1	9.04	124499	11.54	461038	15.17	231131	18.22	374489	23.28	280912	25.90	280323	24.30	547969
9	1702	NT1423010610.D	22L0480-01		1	9.04	132497	11.54	501267	15.17	250627	18.22	437612	23.30	586709	25.97	519933	24.34	651065
10	1738	NT1423010611.D	BKL0585-BLK1		1	9.05	133901	11.54	483764	15.17	234685	18.22	422383	23.28	329074	25.91	355478	24.30	662645
11	1814	NT1423010612.D	BKL0585-BS1		1	9.04	135833	11.54	501057	15.17	241644	18.22	423608	23.28	328270	25.90	352283	24.30	652719
12	1850	NT1423010613.D	BKL0585-BSD1		1	9.04	135456	11.54	504192	15.17	240512	18.22	425561	23.28	305246	25.90	328264	24.30	641167
13	1926	NT1423010614.D	22L0246-43		1	9.04	132673	11.53	512120	15.17	235682	18.22	432377	23.28	327535	25.92	389189	24.31	633775
14	2002	NT1423010615.D	22L0246-44		1	9.04	128915	11.54	488811	15.17	247957	18.22	427171	23.28	345061	25.92	395249	24.31	656078
15	2038	NT1423010616.D	22L0246-45		1	9.04	127864	11.54	472830	15.17	239329	18.22	420090	23.28	297975	25.90	328600	24.30	593537
16	2115	NT1423010617.D	BKL0585-MS1		1	9.04	116263	11.54	427818	15.17	217589	18.22	370821	23.28	275749	25.90	308566	24.30	559797
17	2151	NT1423010618.D	BKL0585-MSD1		1	9.04	114763	11.54	432771	15.17	222480	18.22	372517	23.28	274506	25.90	307961	24.30	557079
18	2227	NT1423010619.D	SLA0068-ICV2		1	9.04	114022	11.53	420653	15.17	216802	18.22	366121	23.28	276883	25.90	308305	24.30	540641
19	2303	NT1423010620.D	SLA0068-LCV2		1	9.04	145168	11.54	532003	15.17	265857	18.22	447747	23.27	342757	25.90	363248	24.30	606933
20	2339	NT1423010621.D	BKL0585-BLK2		1	9.04	118545	11.54	444993	15.17	199072	18.22	361541	23.27	259600	25.90	279477	24.30	471355

INTERNAL STANDARD SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

| | Time | Filename | LabID | ClientId | DF | | |

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

ARI Job No.: SLA0 Method: DFTPP8270E.m Instrument: nt14.i Date: 06-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1152	NT1423010601.D	SLA0068-TUN1		1	NO MANUAL INTEGRATION
1205	NT1423010602.D	SLA0068-ICV1		1	2,2'-oxybis(1-Chloropropane),
1248	NT1423010603.D	SLA0068-LCV1		1	2,2'-oxybis(1-Chloropropane),
1324	NT1423010604.D	BKL0507-BLK1		1	NO MANUAL INTEGRATION
1400	NT1423010605.D	BKL0507-BS1		1	NO MANUAL INTEGRATION
1437	NT1423010606.D	22L0445-01		1	NO MANUAL INTEGRATION
1513	NT1423010607.D	BLA0007-BLK1		1	NO MANUAL INTEGRATION
1549	NT1423010608.D	BLA0007-BS1		1	NO MANUAL INTEGRATION
1625	NT1423010609.D	BLA0007-BSD1		1	NO MANUAL INTEGRATION
1702	NT1423010610.D	22L0480-01		1	NO MANUAL INTEGRATION
1738	NT1423010611.D	BKL0585-BLK1		1	NO MANUAL INTEGRATION
1814	NT1423010612.D	BKL0585-BS1		1	Benzyl alcohol,
1850	NT1423010613.D	BKL0585-BSD1		1	Benzyl alcohol,
1926	NT1423010614.D	22L0246-43		1	Benzo(k)fluoranthene,
2002	NT1423010615.D	22L0246-44		1	NO MANUAL INTEGRATION
2038	NT1423010616.D	22L0246-45		1	NO MANUAL INTEGRATION
2115	NT1423010617.D	BKL0585-MS1		1	Benzyl alcohol,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem3\nt14.i\20230106.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2151	NT1423010618.D	BKL0585-MSD1		1	Benzyl alcohol,
2227	NT1423010619.D	SLA0068-ICV2		1	2,2'-oxybis(1-Chloropropane),
2303	NT1423010620.D	SLA0068-LCV2		1	2,2'-oxybis(1-Chloropropane),
2339	NT1423010621.D	BKL0585-BLK2		1	NO MANUAL INTEGRATION
0015	NT1423010622.D	22L0246-46		1	NO MANUAL INTEGRATION
0051	NT1423010623.D	22L0246-47		1	NO MANUAL INTEGRATION
0127	NT1423010624.D	22L0246-48		1	NO MANUAL INTEGRATION
0203	NT1423010625.D	22L0307-35		1	Benzo(k)fluoranthene,
0239	NT1423010626.D	22L0307-36		1	NO MANUAL INTEGRATION
0315	NT1423010627.D	22L0307-37		3	Benzo(k)fluoranthene,
0351	NT1423010628.D	22L0307-38		1	NO MANUAL INTEGRATION
0427	NT1423010629.D	22L0307-39		1	NO MANUAL INTEGRATION
0503	NT1423010630.D	22L0307-40		1	NO MANUAL INTEGRATION
0539	NT1423010631.D	22L0307-41		1	NO MANUAL INTEGRATION
0615	NT1423010632.D	22L0307-42		1	NO MANUAL INTEGRATION
0651	NT1423010633.D	BKL0585-SRM1		1	NO MANUAL INTEGRATION
0727	NT1423010634.D	SLA0068-CCV1		1	2,2'-oxybis(1-Chloropropane),

Security Status Report

Date: 12-Jan-2023 09:43

NT1423010601.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010602.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010603.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010604.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010605.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010606.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010607.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010608.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010609.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010610.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010611.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010612.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010613.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010614.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010615.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010616.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010617.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010618.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010619.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010620.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010621.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010622.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010623.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010624.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010625.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010626.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010627.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010628.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010629.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010630.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010631.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010632.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010633.D	Data Locked	deenayd, 12-Jan-2023 09:43
NT1423010634.D	Data Locked	deenayd, 12-Jan-2023 09:43

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0355
Instrument: NT14
Calibration: FL00066
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV1 (Water)			Lab File ID: NT1422123011.D			Analyzed: 12/30/22 13:31		
2-Fluorophenol	7.5000	97.6	80 - 120	6.935	6.935857	-0.0009	N/A	
Phenol-d5	7.5000	98.6	80 - 120	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	97.6	80 - 120	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	95.3	80 - 120	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	97.2	80 - 120	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	96.3	80 - 120	13.917	13.91786	-0.0009	N/A	
2,4,6-Tribromophenol	7.5000	96.5	80 - 120	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	5.0000	96.3	80 - 120	21.503	21.505	-0.0020	N/A	
SKL0355-ICB1 (Water)			Lab File ID: NT1422123012.D			Analyzed: 12/30/22 14:08		
2-Fluorophenol	7.5000	88.4	30 - 160	6.934	6.935857	-0.0019	N/A	
Phenol-d5	7.5000	90.2	30 - 160	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	92.7	30 - 160	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	89.2	30 - 160	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	91.7	30 - 160	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	92.1	30 - 160	13.916	13.91786	-0.0019	N/A	
2,4,6-Tribromophenol	7.5000	75.8	30 - 160	16.962	16.96783	-0.0058	N/A	
p-Terphenyl-d14	5.0000	95.5	30 - 160	21.502	21.505	-0.0030	N/A	
SKL0355-ICV2 (Water)			Lab File ID: NT1422123014.D			Analyzed: 12/30/22 15:53		
2-Fluorophenol	7.5000	98.3	80 - 120	6.935	6.935857	-0.0009	N/A	
Phenol-d5	7.5000	99.4	80 - 120	8.526	8.526429	-0.0004	N/A	
2-Chlorophenol-d4	7.5000	96.5	80 - 120	8.812	8.816429	-0.0044	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.5	80 - 120	9.548	9.549143	-0.0011	N/A	
Nitrobenzene-d5	5.0000	100	80 - 120	10.278	10.28229	-0.0043	N/A	
2-Fluorobiphenyl	5.0000	92.8	80 - 120	13.917	13.91786	-0.0009	N/A	
2,4,6-Tribromophenol	7.5000	90.9	80 - 120	16.97	16.96783	0.0022	N/A	
p-Terphenyl-d14	5.0000	95.0	80 - 120	21.503	21.505	-0.0020	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV4 (Water)			Lab File ID: NT1422123049.D			Analyzed: 12/31/22 13:17		
2-Fluorophenol	7.5000	98.5	80 - 120	6.927	6.935857	-0.0089	N/A	
Phenol-d5	7.5000	99.0	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.8	80 - 120	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.8	80 - 120	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	5.0000	102	80 - 120	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	5.0000	94.1	80 - 120	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	7.5000	92.1	80 - 120	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	5.0000	88.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV1 (Water)			Lab File ID: NT1422123051.D			Analyzed: 12/31/22 14:29		
2-Fluorophenol	0.30000	115	50 - 150	6.927	6.935857	-0.0089	N/A	
Phenol-d5	0.30000	102	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	111	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.20000	121	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.20000	107	50 - 150	10.27	10.28229	-0.0123	N/A	
2-Fluorobiphenyl	0.20000	112	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.30000	70.6	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.20000	109	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV2 (Water)			Lab File ID: NT1422123052.D			Analyzed: 12/31/22 15:05		
2-Fluorophenol	0.75000	94.8	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	87.7	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	91.5	50 - 150	8.804	8.816429	-0.0124	N/A	
1,2-Dichlorobenzene-d4	0.50000	94.1	50 - 150	9.533	9.549143	-0.0161	N/A	
Nitrobenzene-d5	0.50000	92.0	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.9	50 - 150	13.909	13.91786	-0.0089	N/A	
2,4,6-Tribromophenol	0.75000	71.4	50 - 150	16.963	16.96783	-0.0048	N/A	
p-Terphenyl-d14	0.50000	90.8	50 - 150	21.495	21.505	-0.0100	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-ICV5 (Water)			Lab File ID: NT1422123066.D			Analyzed: 12/31/22 23:30		
2-Fluorophenol	7.5000	97.9	80 - 120	6.919	6.935857	-0.0169	N/A	
Phenol-d5	7.5000	97.9	80 - 120	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	7.5000	98.4	80 - 120	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	93.6	80 - 120	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	104	80 - 120	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	5.0000	95.4	80 - 120	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	7.5000	89.3	80 - 120	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	5.0000	86.8	80 - 120	21.495	21.505	-0.0100	N/A	
SKL0355-LCV3 (Water)			Lab File ID: NT1422123067.D			Analyzed: 01/01/23 00:06		
2-Fluorophenol	0.30000	119	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.30000	104	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.30000	112	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.20000	120	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.20000	113	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.20000	111	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.30000	74.9	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.20000	111	50 - 150	21.495	21.505	-0.0100	N/A	
SKL0355-LCV4 (Water)			Lab File ID: NT1422123068.D			Analyzed: 01/01/23 00:42		
2-Fluorophenol	0.75000	97.6	50 - 150	6.919	6.935857	-0.0169	N/A	
Phenol-d5	0.75000	88.1	50 - 150	8.519	8.526429	-0.0074	N/A	
2-Chlorophenol-d4	0.75000	93.0	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	0.50000	96.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	0.50000	96.6	50 - 150	10.262	10.28229	-0.0203	N/A	
2-Fluorobiphenyl	0.50000	94.4	50 - 150	13.901	13.91786	-0.0169	N/A	
2,4,6-Tribromophenol	0.75000	71.7	50 - 150	16.955	16.96783	-0.0128	N/A	
p-Terphenyl-d14	0.50000	90.3	50 - 150	21.495	21.505	-0.0100	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0355-CCV1 (Water)			Lab File ID: NT1422123083.D				Analyzed: 01/01/23 09:41	
2-Fluorophenol	7.5000	98.9	50 - 150	6.911	6.935857	-0.0249	N/A	
Phenol-d5	7.5000	99.5	50 - 150	8.511	8.526429	-0.0154	N/A	
2-Chlorophenol-d4	7.5000	99.1	50 - 150	8.797	8.816429	-0.0194	N/A	
1,2-Dichlorobenzene-d4	5.0000	94.0	50 - 150	9.525	9.549143	-0.0241	N/A	
Nitrobenzene-d5	5.0000	105	50 - 150	10.255	10.28229	-0.0273	N/A	
2-Fluorobiphenyl	5.0000	93.3	50 - 150	13.894	13.91786	-0.0239	N/A	
2,4,6-Tribromophenol	7.5000	89.9	50 - 150	16.947	16.96783	-0.0208	N/A	
p-Terphenyl-d14	5.0000	85.6	50 - 150	21.487	21.505	-0.0180	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0012	Instrument:	NT10
Calibration:	GA00013	Calibration Date:	01/04/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0012-ICB1 (Solid)			Lab File ID: NT1023010402.D				Analyzed: 01/04/23 09:07	
p-Terphenyl-d14	5.0000	111	37 - 120	21.929	21.929	0.0000	N/A	
SLA0012-SCV1 (Solid)			Lab File ID: NT1023010413.D				Analyzed: 01/04/23 16:58	
p-Terphenyl-d14	5.0000	97.5	80 - 120	21.929	21.929	0.0000	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0061
Instrument: NT10
Calibration: GA00013
Calibration Date: 01/04/2023

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0061-ICV1 (Water)			Lab File ID: NT1023010502.D			Analyzed: 01/05/23 13:58		
2-Fluorophenol	7.5000	103	80 - 120	7.429	7.418714	0.0103	N/A	
Phenol-d5	7.5000	99.9	80 - 120	9.012	8.993572	0.0184	N/A	
2-Chlorophenol-d4	7.5000	106	80 - 120	9.321	9.307143	0.0139	N/A	
1,2-Dichlorobenzene-d4	5.0000	99.8	80 - 120	10.05	10.03514	0.0149	N/A	
Nitrobenzene-d5	5.0000	102	80 - 120	10.779	10.76514	0.0139	N/A	
2-Fluorobiphenyl	5.0000	99.5	80 - 120	14.398	14.373	0.0250	N/A	
2,4,6-Tribromophenol	7.5000	104	80 - 120	17.459	17.44157	0.0174	N/A	
p-Terphenyl-d14	5.0000	108	80 - 120	21.952	21.929	0.0230	N/A	
SLA0061-LCV1 (Water)			Lab File ID: NT1023010503.D			Analyzed: 01/05/23 14:37		
2-Fluorophenol	0.75000	74.2	50 - 150	7.436	7.418714	0.0173	N/A	
Phenol-d5	0.75000		50 - 150		8.993572	-8.9936	N/A	*
2-Chlorophenol-d4	0.75000	89.3	50 - 150	9.314	9.307143	0.0069	N/A	
1,2-Dichlorobenzene-d4	0.50000	93.6	50 - 150	10.042	10.03514	0.0069	N/A	
Nitrobenzene-d5	0.50000	79.6	50 - 150	10.772	10.76514	0.0069	N/A	
2-Fluorobiphenyl	0.50000	94.9	50 - 150	14.374	14.373	0.0010	N/A	
2,4,6-Tribromophenol	0.75000	73.1	50 - 150	17.444	17.44157	0.0024	N/A	
p-Terphenyl-d14	0.50000	90.3	50 - 150	21.929	21.929	0.0000	N/A	
BKL0489-BLK1 (Solid)			Lab File ID: NT1023010504.D			Analyzed: 01/05/23 15:17		
p-Terphenyl-d14	500.00	99.5	37 - 120	21.929	21.929	0.0000	N/A	
BKL0489-BS1 (Solid)			Lab File ID: NT1023010505.D			Analyzed: 01/05/23 15:56		
p-Terphenyl-d14	500.00	98.3	37 - 120	21.929	21.929	0.0000	N/A	
BKL0489-BSD1 (Solid)			Lab File ID: NT1023010506.D			Analyzed: 01/05/23 16:35		
p-Terphenyl-d14	500.00	105	37 - 120	21.929	21.929	0.0000	N/A	
22L0246-08 (Solid)			Lab File ID: NT1023010508.D			Analyzed: 01/05/23 17:52		
p-Terphenyl-d14	497.81	82.9	37 - 120	21.929	21.929	0.0000	N/A	
22L0246-09 (Solid)			Lab File ID: NT1023010509.D			Analyzed: 01/05/23 18:31		
p-Terphenyl-d14	499.80	89.3	37 - 120	21.929	21.929	0.0000	N/A	
22L0246-10 (Solid)			Lab File ID: NT1023010510.D			Analyzed: 01/05/23 19:09		
p-Terphenyl-d14	499.28	90.5	37 - 120	21.929	21.929	0.0000	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0061
Instrument: NT10
Calibration: GA00013
Calibration Date: 01/04/2023

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0489-MS1 (Solid)			Lab File ID: NT1023010511.D			Analyzed: 01/05/23 19:48		
p-Terphenyl-d14	499.94	96.4	37 - 120	21.937	21.929	0.0080	N/A	
BKL0489-MSD1 (Solid)			Lab File ID: NT1023010512.D			Analyzed: 01/05/23 20:26		
p-Terphenyl-d14	499.94	86.5	37 - 120	21.929	21.929	0.0000	N/A	
22L0246-11 (Solid)			Lab File ID: NT1023010513.D			Analyzed: 01/05/23 21:05		
p-Terphenyl-d14	500.10	79.5	37 - 120	21.937	21.929	0.0080	N/A	
22L0246-12 (Solid)			Lab File ID: NT1023010514.D			Analyzed: 01/05/23 21:44		
p-Terphenyl-d14	500.05	105	37 - 120	21.937	21.929	0.0080	N/A	
22L0246-13 (Solid)			Lab File ID: NT1023010515.D			Analyzed: 01/05/23 22:22		
p-Terphenyl-d14	498.95	100	37 - 120	21.937	21.929	0.0080	N/A	
22L0246-14 (Solid)			Lab File ID: NT1023010516.D			Analyzed: 01/05/23 23:00		
p-Terphenyl-d14	498.97	71.8	37 - 120	21.929	21.929	0.0000	N/A	
BKL0489-SRM1 (Solid)			Lab File ID: NT1023010517.D			Analyzed: 01/05/23 23:39		
p-Terphenyl-d14	5000.0	102	37 - 120	21.929	21.929	0.0000	N/A	
SLA0061-CCV1 (Water)			Lab File ID: NT1023010518.D			Analyzed: 01/06/23 00:17		
2-Fluorophenol	7.5000	102	50 - 150	7.421	7.418714	0.0023	N/A	
Phenol-d5	7.5000	102	50 - 150	9.005	8.993572	0.0114	N/A	
2-Chlorophenol-d4	7.5000	108	50 - 150	9.306	9.307143	-0.0011	N/A	
1,2-Dichlorobenzene-d4	5.0000	99.7	50 - 150	10.034	10.03514	-0.0011	N/A	
Nitrobenzene-d5	5.0000	103	50 - 150	10.764	10.76514	-0.0011	N/A	
2-Fluorobiphenyl	5.0000	101	50 - 150	14.374	14.373	0.0010	N/A	
2,4,6-Tribromophenol	7.5000	95.8	50 - 150	17.436	17.44157	-0.0056	N/A	
p-Terphenyl-d14	5.0000	93.6	50 - 150	21.929	21.929	0.0000	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0068	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/mL	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0068-ICV1 (Water)			Lab File ID: NT1423010602.D			Analyzed: 01/06/23 12:05		
2-Fluorophenol	7.5000	106	80 - 120	6.811	6.935857	-0.1249	N/A	
Phenol-d5	7.5000	108	80 - 120	8.403	8.526429	-0.1234	N/A	
2-Chlorophenol-d4	7.5000	107	80 - 120	8.673	8.816429	-0.1434	N/A	
1,2-Dichlorobenzene-d4	5.0000	104	80 - 120	9.401	9.549143	-0.1481	N/A	
Nitrobenzene-d5	5.0000	120	80 - 120	10.131	10.28229	-0.1513	N/A	
2-Fluorobiphenyl	5.0000	110	80 - 120	13.77	13.91786	-0.1479	N/A	
2,4,6-Tribromophenol	7.5000	101	80 - 120	16.816	16.96783	-0.1518	N/A	
p-Terphenyl-d14	5.0000	129	80 - 120	21.364	21.505	-0.1410	N/A	*
SLA0068-LCV1 (Water)			Lab File ID: NT1423010603.D			Analyzed: 01/06/23 12:48		
2-Fluorophenol	0.75000	91.2	50 - 150	6.811	6.935857	-0.1249	N/A	
Phenol-d5	0.75000	86.2	50 - 150	8.403	8.526429	-0.1234	N/A	
2-Chlorophenol-d4	0.75000	92.9	50 - 150	8.673	8.816429	-0.1434	N/A	
1,2-Dichlorobenzene-d4	0.50000	93.6	50 - 150	9.402	9.549143	-0.1471	N/A	
Nitrobenzene-d5	0.50000	100	50 - 150	10.131	10.28229	-0.1513	N/A	
2-Fluorobiphenyl	0.50000	91.4	50 - 150	13.77	13.91786	-0.1479	N/A	
2,4,6-Tribromophenol	0.75000	69.2	50 - 150	16.816	16.96783	-0.1518	N/A	
p-Terphenyl-d14	0.50000	94.3	50 - 150	21.364	21.505	-0.1410	N/A	
BKL0585-BLK1 (Solid)			Lab File ID: NT1423010611.D			Analyzed: 01/06/23 17:38		
p-Terphenyl-d14	500.00	98.9	37 - 120	21.372	21.505	-0.1330	N/A	
BKL0585-BS1 (Solid)			Lab File ID: NT1423010612.D			Analyzed: 01/06/23 18:14		
p-Terphenyl-d14	500.00	103	37 - 120	21.364	21.505	-0.1410	N/A	
BKL0585-BSD1 (Solid)			Lab File ID: NT1423010613.D			Analyzed: 01/06/23 18:50		
p-Terphenyl-d14	500.00	107	37 - 120	21.364	21.505	-0.1410	N/A	
22L0246-43 (Solid)			Lab File ID: NT1423010614.D			Analyzed: 01/06/23 19:26		
p-Terphenyl-d14	498.63	101	37 - 120	21.379	21.505	-0.1260	N/A	
22L0246-44 (Solid)			Lab File ID: NT1423010615.D			Analyzed: 01/06/23 20:02		
p-Terphenyl-d14	500.06	94.4	37 - 120	21.372	21.505	-0.1330	N/A	
22L0246-45 (Solid)			Lab File ID: NT1423010616.D			Analyzed: 01/06/23 20:38		
p-Terphenyl-d14	499.67	92.1	37 - 120	21.372	21.505	-0.1330	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0068
Instrument: NT14
Calibration: FL00066
Calibration Date: 12/30/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0585-MS1 (Solid)			Lab File ID: NT1423010617.D			Analyzed: 01/06/23 21:15		
p-Terphenyl-d14	500.07	113	37 - 120	21.364	21.505	-0.1410	N/A	
BKL0585-MSD1 (Solid)			Lab File ID: NT1423010618.D			Analyzed: 01/06/23 21:51		
p-Terphenyl-d14	500.07	102	37 - 120	21.364	21.505	-0.1410	N/A	
SLA0068-ICV2 (Water)			Lab File ID: NT1423010619.D			Analyzed: 01/06/23 22:27		
2-Fluorophenol	7.5000	106	80 - 120	6.811	6.935857	-0.1249	N/A	
Phenol-d5	7.5000	105	80 - 120	8.403	8.526429	-0.1234	N/A	
2-Chlorophenol-d4	7.5000	105	80 - 120	8.673	8.816429	-0.1434	N/A	
1,2-Dichlorobenzene-d4	5.0000	104	80 - 120	9.401	9.549143	-0.1481	N/A	
Nitrobenzene-d5	5.0000	122	80 - 120	10.131	10.28229	-0.1513	N/A	*
2-Fluorobiphenyl	5.0000	111	80 - 120	13.77	13.91786	-0.1479	N/A	
2,4,6-Tribromophenol	7.5000	95.8	80 - 120	16.816	16.96783	-0.1518	N/A	
p-Terphenyl-d14	5.0000	115	80 - 120	21.364	21.505	-0.1410	N/A	
SLA0068-LCV2 (Water)			Lab File ID: NT1423010620.D			Analyzed: 01/06/23 23:03		
2-Fluorophenol	0.75000	85.0	50 - 150	6.811	6.935857	-0.1249	N/A	
Phenol-d5	0.75000	77.0	50 - 150	8.403	8.526429	-0.1234	N/A	
2-Chlorophenol-d4	0.75000	85.8	50 - 150	8.673	8.816429	-0.1434	N/A	
1,2-Dichlorobenzene-d4	0.50000	91.5	50 - 150	9.402	9.549143	-0.1471	N/A	
Nitrobenzene-d5	0.50000	98.5	50 - 150	10.131	10.28229	-0.1513	N/A	
2-Fluorobiphenyl	0.50000	91.9	50 - 150	13.77	13.91786	-0.1479	N/A	
2,4,6-Tribromophenol	0.75000	60.8	50 - 150	16.816	16.96783	-0.1518	N/A	
p-Terphenyl-d14	0.50000	93.2	50 - 150	21.364	21.505	-0.1410	N/A	
BKL0585-BLK2 (Solid)			Lab File ID: NT1423010621.D			Analyzed: 01/06/23 23:39		
p-Terphenyl-d14	500.00	99.8	37 - 120	21.364	21.505	-0.1410	N/A	
22L0246-46 (Solid)			Lab File ID: NT1423010622.D			Analyzed: 01/07/23 00:15		
p-Terphenyl-d14	498.70	102	37 - 120	21.364	21.505	-0.1410	N/A	
22L0246-47 (Solid)			Lab File ID: NT1423010623.D			Analyzed: 01/07/23 00:51		
p-Terphenyl-d14	499.89	112	37 - 120	21.364	21.505	-0.1410	N/A	
22L0246-48 (Solid)			Lab File ID: NT1423010624.D			Analyzed: 01/07/23 01:27		
p-Terphenyl-d14	497.31	106	37 - 120	21.364	21.505	-0.1410	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0068	Instrument:	NT14
Calibration:	FL00066	Calibration Date:	12/30/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0585-SRM1 (Solid)			Lab File ID: NT1423010633.D				Analyzed: 01/07/23 06:51	
p-Terphenyl-d14	5000.0	99.8	37 - 120	21.372	21.505	-0.1330	N/A	
SLA0068-CCV1 (Water)			Lab File ID: NT1423010634.D				Analyzed: 01/07/23 07:27	
2-Fluorophenol	7.5000	109	50 - 150	6.811	6.935857	-0.1249	N/A	
Phenol-d5	7.5000	110	50 - 150	8.41	8.526429	-0.1164	N/A	
2-Chlorophenol-d4	7.5000	108	50 - 150	8.681	8.816429	-0.1354	N/A	
1,2-Dichlorobenzene-d4	5.0000	105	50 - 150	9.402	9.549143	-0.1471	N/A	
Nitrobenzene-d5	5.0000	124	50 - 150	10.139	10.28229	-0.1433	N/A	
2-Fluorobiphenyl	5.0000	109	50 - 150	13.77	13.91786	-0.1479	N/A	
2,4,6-Tribromophenol	7.5000	87.8	50 - 150	16.824	16.96783	-0.1438	N/A	
p-Terphenyl-d14	5.0000	114	50 - 150	21.372	21.505	-0.1330	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SKL0355-ICV1)		(Water)	Lab File ID: NT1422123011.D				Analyzed: 12/30/22 13:31		
1,4-Dichlorobenzene-d4	145276	9.184	151013	9.183	96	50 - 200	0.001	+/-0.50	
Naphthalene-d8	542519	11.689	553510	11.688	98	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	292314	15.325	305411	15.325	96	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	478070	18.369	491708	18.376	97	50 - 200	-0.007	+/-0.50	
Chrysene-d12	412507	23.415	424740	23.415	97	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	590464	24.437	684951	24.437	86	50 - 200	0.000	+/-0.50	
Perylene-d12	379639	26.102	395150	26.101	96	50 - 200	0.001	+/-0.50	
Initial Cal Blank (SKL0355-ICB1)		(Water)	Lab File ID: NT1422123012.D				Analyzed: 12/30/22 14:08		
1,4-Dichlorobenzene-d4	174509	9.183	151013	9.183	116	50 - 200	0.000	+/-0.50	
Naphthalene-d8	641934	11.688	553510	11.688	116	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	335436	15.325	305411	15.325	110	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	560033	18.369	491708	18.376	114	50 - 200	-0.007	+/-0.50	
Chrysene-d12	444498	23.407	424740	23.415	105	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	541261	24.436	684951	24.437	79	50 - 200	-0.001	+/-0.50	
Perylene-d12	423100	26.101	395150	26.101	107	50 - 200	0.000	+/-0.50	
Initial Cal Check (SKL0355-ICV2)		(Water)	Lab File ID: NT1422123014.D				Analyzed: 12/30/22 15:53		
1,4-Dichlorobenzene-d4	130476	9.184	151013	9.183	86	50 - 200	0.001	+/-0.50	
Naphthalene-d8	484478	11.689	553510	11.688	88	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	261445	15.325	305411	15.325	86	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	412822	18.369	491708	18.376	84	50 - 200	-0.007	+/-0.50	
Chrysene-d12	349122	23.407	424740	23.415	82	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	522046	24.437	684951	24.437	76	50 - 200	0.000	+/-0.50	
Perylene-d12	327130	26.102	395150	26.101	83	50 - 200	0.001	+/-0.50	
Initial Cal Check (SKL0355-ICV4)		(Water)	Lab File ID: NT1422123049.D				Analyzed: 12/31/22 13:17		
1,4-Dichlorobenzene-d4	134439	9.168	151013	9.183	89	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	492388	11.681	553510	11.688	89	50 - 200	-0.007	+/-0.50	
Acenaphthene-d10	270679	15.318	305411	15.325	89	50 - 200	-0.007	+/-0.50	
Phenanthrene-d10	429616	18.369	491708	18.376	87	50 - 200	-0.007	+/-0.50	
Chrysene-d12	376030	23.407	424740	23.415	89	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	634628	24.429	684951	24.437	93	50 - 200	-0.008	+/-0.50	
Perylene-d12	336225	26.094	395150	26.101	85	50 - 200	-0.007	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV1)		(Water)	Lab File ID: NT1422123051.D				Analyzed: 12/31/22 14:29		
1,4-Dichlorobenzene-d4	116397	9.168	151013	9.183	77	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	425902	11.673	553510	11.688	77	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	216598	15.31	305411	15.325	71	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	347572	18.361	491708	18.376	71	50 - 200	-0.015	+/-0.50	
Chrysene-d12	288877	23.407	424740	23.415	68	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	433122	24.429	684951	24.437	63	50 - 200	-0.008	+/-0.50	
Perylene-d12	247727	26.094	395150	26.101	63	50 - 200	-0.007	+/-0.50	
Low Cal Check (SKL0355-LCV2)		(Water)	Lab File ID: NT1422123052.D				Analyzed: 12/31/22 15:05		
1,4-Dichlorobenzene-d4	120125	9.168	151013	9.183	80	50 - 200	-0.015	+/-0.50	
Naphthalene-d8	431181	11.673	553510	11.688	78	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	221457	15.31	305411	15.325	73	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	356219	18.361	491708	18.376	72	50 - 200	-0.015	+/-0.50	
Chrysene-d12	294883	23.407	424740	23.415	69	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	439623	24.429	684951	24.437	64	50 - 200	-0.008	+/-0.50	
Perylene-d12	255506	26.094	395150	26.101	65	50 - 200	-0.007	+/-0.50	
Initial Cal Check (SKL0355-ICV5)		(Water)	Lab File ID: NT1422123066.D				Analyzed: 12/31/22 23:30		
1,4-Dichlorobenzene-d4	138755	9.16	151013	9.183	92	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	501723	11.673	553510	11.688	91	50 - 200	-0.015	+/-0.50	
Acenaphthene-d10	275234	15.31	305411	15.325	90	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	440085	18.361	491708	18.376	90	50 - 200	-0.015	+/-0.50	
Chrysene-d12	384795	23.399	424740	23.415	91	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	674530	24.421	684951	24.437	98	50 - 200	-0.016	+/-0.50	
Perylene-d12	336665	26.086	395150	26.101	85	50 - 200	-0.015	+/-0.50	
Low Cal Check (SKL0355-LCV3)		(Water)	Lab File ID: NT1422123067.D				Analyzed: 01/01/23 00:06		
1,4-Dichlorobenzene-d4	109143	9.16	151013	9.183	72	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	397029	11.666	553510	11.688	72	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	204214	15.31	305411	15.325	67	50 - 200	-0.015	+/-0.50	
Phenanthrene-d10	329657	18.361	491708	18.376	67	50 - 200	-0.015	+/-0.50	
Chrysene-d12	269585	23.399	424740	23.415	63	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	449369	24.421	684951	24.437	66	50 - 200	-0.016	+/-0.50	
Perylene-d12	227797	26.086	395150	26.101	58	50 - 200	-0.015	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0355	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Low Cal Check (SKL0355-LCV4)		(Water)		Lab File ID: NT1422123068.D				Analyzed: 01/01/23 00:42	
1,4-Dichlorobenzene-d4	113715	9.16	151013	9.183	75	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	412900	11.666	553510	11.688	75	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	210199	15.302	305411	15.325	69	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	341756	18.354	491708	18.376	70	50 - 200	-0.022	+/-0.50	
Chrysene-d12	291897	23.399	424740	23.415	69	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	463051	24.421	684951	24.437	68	50 - 200	-0.016	+/-0.50	
Perylene-d12	229756	26.086	395150	26.101	58	50 - 200	-0.015	+/-0.50	
Calibration Check (SKL0355-CCV1)		(Water)		Lab File ID: NT1422123083.D				Analyzed: 01/01/23 09:41	
1,4-Dichlorobenzene-d4	133778	9.16	151013	9.183	89	50 - 200	-0.023	+/-0.50	
Naphthalene-d8	496301	11.666	553510	11.688	90	50 - 200	-0.022	+/-0.50	
Acenaphthene-d10	271703	15.302	305411	15.325	89	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	424221	18.353	491708	18.376	86	50 - 200	-0.023	+/-0.50	
Chrysene-d12	389585	23.399	424740	23.415	92	50 - 200	-0.016	+/-0.50	
Di-n-Octylphthalate-d4	687974	24.414	684951	24.437	100	50 - 200	-0.023	+/-0.50	
Perylene-d12	298756	26.078	395150	26.101	76	50 - 200	-0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0012	Instrument:	NT10
		Calibration:	GA00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Blank (SLA0012-ICB1)		(Solid)	Lab File ID: NT1023010402.D				Analyzed: 01/04/23 09:07		
Chrysene-d12	144005	23.85	151837	23.85	95	50 - 200	0.000	+/-0.50	
Secondary Cal Check (SLA0012-SCV1)		(Solid)	Lab File ID: NT1023010413.D				Analyzed: 01/04/23 16:58		
Chrysene-d12	180135	23.849	151837	23.85	119	50 - 200	-0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0061	Instrument:	NT10
		Calibration:	GA00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0061-ICV1)		(Water)	Lab File ID: NT1023010502.D				Analyzed: 01/05/23 13:58		
1,4-Dichlorobenzene-d4	81725	9.685	81725	9.685	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	307034	12.185	307034	12.185	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	140557	15.814	140557	15.814	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	243620	18.865	243620	18.865	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	144852	23.873	144852	23.873	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	387178	24.926	387178	24.926	100	50 - 200	0.000	+/-0.50	
Perylene-d12	106683	26.822	106683	26.822	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLA0061-LCV1)		(Water)	Lab File ID: NT1023010503.D				Analyzed: 01/05/23 14:37		
1,4-Dichlorobenzene-d4	96119	9.677	81725	9.685	118	50 - 200	-0.008	+/-0.50	
Naphthalene-d8	368093	12.169	307034	12.185	120	50 - 200	-0.016	+/-0.50	
Acenaphthene-d10	153509	15.791	140557	15.814	109	50 - 200	-0.023	+/-0.50	
Phenanthrene-d10	283598	18.85	243620	18.865	116	50 - 200	-0.015	+/-0.50	
Chrysene-d12	181369	23.849	144852	23.873	125	50 - 200	-0.024	+/-0.50	
Di-n-Octylphthalate-d4	361602	24.902	387178	24.926	93	50 - 200	-0.024	+/-0.50	
Perylene-d12	114656	26.791	106683	26.822	107	50 - 200	-0.031	+/-0.50	
Blank (BKL0489-BLK1)		(Solid)	Lab File ID: NT1023010504.D				Analyzed: 01/05/23 15:17		
Chrysene-d12	152913	23.85	144852	23.873	106	50 - 200	-0.023	+/-0.50	
LCS (BKL0489-BS1)		(Solid)	Lab File ID: NT1023010505.D				Analyzed: 01/05/23 15:56		
Chrysene-d12	139051	23.85	144852	23.873	96	50 - 200	-0.023	+/-0.50	
LCS Dup (BKL0489-BSD1)		(Solid)	Lab File ID: NT1023010506.D				Analyzed: 01/05/23 16:35		
Chrysene-d12	139255	23.85	144852	23.873	96	50 - 200	-0.023	+/-0.50	
LDW22-IT810B (22L0246-08)		(Solid)	Lab File ID: NT1023010508.D				Analyzed: 01/05/23 17:52		
Chrysene-d12	106003	23.85	144852	23.873	73	50 - 200	-0.023	+/-0.50	
LDW22-IT810C (22L0246-09)		(Solid)	Lab File ID: NT1023010509.D				Analyzed: 01/05/23 18:31		
Chrysene-d12	105002	23.849	144852	23.873	72	50 - 200	-0.024	+/-0.50	
LDW22-IT810B-FD (22L0246-10)		(Solid)	Lab File ID: NT1023010510.D				Analyzed: 01/05/23 19:09		
Chrysene-d12	98636	23.85	144852	23.873	68	50 - 200	-0.023	+/-0.50	
Matrix Spike (BKL0489-MS1)		(Solid)	Lab File ID: NT1023010511.D				Analyzed: 01/05/23 19:48		
Chrysene-d12	89033	23.857	144852	23.873	61	50 - 200	-0.016	+/-0.50	
Matrix Spike Dup (BKL0489-MSD1)		(Solid)	Lab File ID: NT1023010512.D				Analyzed: 01/05/23 20:26		
Chrysene-d12	110091	23.85	144852	23.873	76	50 - 200	-0.023	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0061
Instrument: NT10
Calibration: GA00013

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT810D (22L0246-11)		(Solid)		Lab File ID: NT1023010513.D				Analyzed: 01/05/23 21:05	
Chrysene-d12	100314	23.85	144852	23.873	69	50 - 200	-0.023	+/-0.50	
LDW22-IT810E (22L0246-12)		(Solid)		Lab File ID: NT1023010514.D				Analyzed: 01/05/23 21:44	
Chrysene-d12	84284	23.857	144852	23.873	58	50 - 200	-0.016	+/-0.50	
LDW22-IT810F (22L0246-13)		(Solid)		Lab File ID: NT1023010515.D				Analyzed: 01/05/23 22:22	
Chrysene-d12	90895	23.857	144852	23.873	63	50 - 200	-0.016	+/-0.50	
LDW22-IT810G (22L0246-14)		(Solid)		Lab File ID: NT1023010516.D				Analyzed: 01/05/23 23:00	
Chrysene-d12	111613	23.857	144852	23.873	77	50 - 200	-0.016	+/-0.50	
Reference (BKL0489-SRM1)		(Solid)		Lab File ID: NT1023010517.D				Analyzed: 01/05/23 23:39	
Chrysene-d12	122673	23.85	144852	23.873	85	50 - 200	-0.023	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0068	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0068-ICV1)		(Water)		Lab File ID: NT1423010602.D			Analyzed: 01/06/23 12:05		
1,4-Dichlorobenzene-d4	134115	9.037	114022	9.037	118	50 - 200	0.000	+/-0.50	
Naphthalene-d8	499117	11.542	420653	11.534	119	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	260320	15.171	216802	15.171	120	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	432406	18.215	366121	18.215	118	50 - 200	0.000	+/-0.50	
Chrysene-d12	317887	23.268	276883	23.276	115	50 - 200	-0.008	+/-0.50	
Di-n-Octylphthalate-d4	664061	24.298	540641	24.298	123	50 - 200	0.000	+/-0.50	
Perylene-d12	313716	25.901	308305	25.901	102	50 - 200	0.000	+/-0.50	
Low Cal Check (SLA0068-LCV1)		(Water)		Lab File ID: NT1423010603.D			Analyzed: 01/06/23 12:48		
1,4-Dichlorobenzene-d4	163613	9.037	114022	9.037	143	50 - 200	0.000	+/-0.50	
Naphthalene-d8	617145	11.535	420653	11.534	147	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	303137	15.171	216802	15.171	140	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	507941	18.215	366121	18.215	139	50 - 200	0.000	+/-0.50	
Chrysene-d12	385291	23.269	276883	23.276	139	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	688020	24.298	540641	24.298	127	50 - 200	0.000	+/-0.50	
Perylene-d12	361053	25.901	308305	25.901	117	50 - 200	0.000	+/-0.50	
Blank (BKL0585-BLK1)		(Solid)		Lab File ID: NT1423010611.D			Analyzed: 01/06/23 17:38		
Chrysene-d12	329074	23.276	276883	23.276	119	50 - 200	0.000	+/-0.50	
LCS (BKL0585-BS1)		(Solid)		Lab File ID: NT1423010612.D			Analyzed: 01/06/23 18:14		
Chrysene-d12	328270	23.276	276883	23.276	119	50 - 200	0.000	+/-0.50	
LCS Dup (BKL0585-BSD1)		(Solid)		Lab File ID: NT1423010613.D			Analyzed: 01/06/23 18:50		
Chrysene-d12	305246	23.276	276883	23.276	110	50 - 200	0.000	+/-0.50	
LDW22-IT809B (22L0246-43)		(Solid)		Lab File ID: NT1423010614.D			Analyzed: 01/06/23 19:26		
Chrysene-d12	327535	23.284	276883	23.276	118	50 - 200	0.008	+/-0.50	
LDW22-IT809C (22L0246-44)		(Solid)		Lab File ID: NT1423010615.D			Analyzed: 01/06/23 20:02		
Chrysene-d12	345061	23.284	276883	23.276	125	50 - 200	0.008	+/-0.50	
LDW22-IT809D (22L0246-45)		(Solid)		Lab File ID: NT1423010616.D			Analyzed: 01/06/23 20:38		
Chrysene-d12	297975	23.276	276883	23.276	108	50 - 200	0.000	+/-0.50	
Matrix Spike (BKL0585-MS1)		(Solid)		Lab File ID: NT1423010617.D			Analyzed: 01/06/23 21:15		
Chrysene-d12	275749	23.276	276883	23.276	100	50 - 200	0.000	+/-0.50	
Matrix Spike Dup (BKL0585-MSD1)		(Solid)		Lab File ID: NT1423010618.D			Analyzed: 01/06/23 21:51		
Chrysene-d12	274506	23.277	276883	23.276	99	50 - 200	0.001	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8270E

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0068	Instrument:	NT14
		Calibration:	FL00066

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0068-ICV2)		(Water)		Lab File ID: NT1423010619.D				Analyzed: 01/06/23 22:27	
1,4-Dichlorobenzene-d4	114022	9.037	114022	9.037	100	50 - 200	0.000	+/-0.50	
Naphthalene-d8	420653	11.534	420653	11.534	100	50 - 200	0.000	+/-0.50	
Acenaphthene-d10	216802	15.171	216802	15.171	100	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	366121	18.215	366121	18.215	100	50 - 200	0.000	+/-0.50	
Chrysene-d12	276883	23.276	276883	23.276	100	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	540641	24.298	540641	24.298	100	50 - 200	0.000	+/-0.50	
Perylene-d12	308305	25.901	308305	25.901	100	50 - 200	0.000	+/-0.50	
Low Cal Check (SLA0068-LCV2)		(Water)		Lab File ID: NT1423010620.D				Analyzed: 01/06/23 23:03	
1,4-Dichlorobenzene-d4	145168	9.037	114022	9.037	127	50 - 200	0.000	+/-0.50	
Naphthalene-d8	532003	11.535	420653	11.534	126	50 - 200	0.001	+/-0.50	
Acenaphthene-d10	265857	15.171	216802	15.171	123	50 - 200	0.000	+/-0.50	
Phenanthrene-d10	447747	18.215	366121	18.215	122	50 - 200	0.000	+/-0.50	
Chrysene-d12	342757	23.269	276883	23.276	124	50 - 200	-0.007	+/-0.50	
Di-n-Octylphthalate-d4	606933	24.298	540641	24.298	112	50 - 200	0.000	+/-0.50	
Perylene-d12	363248	25.901	308305	25.901	118	50 - 200	0.000	+/-0.50	
Blank (BKL0585-BLK2)		(Solid)		Lab File ID: NT1423010621.D				Analyzed: 01/06/23 23:39	
Chrysene-d12	259600	23.269	276883	23.276	94	50 - 200	-0.007	+/-0.50	
LDW22-IT809E (22L0246-46)		(Solid)		Lab File ID: NT1423010622.D				Analyzed: 01/07/23 00:15	
Chrysene-d12	262292	23.269	276883	23.276	95	50 - 200	-0.007	+/-0.50	
LDW22-IT809F (22L0246-47)		(Solid)		Lab File ID: NT1423010623.D				Analyzed: 01/07/23 00:51	
Chrysene-d12	263356	23.276	276883	23.276	95	50 - 200	0.000	+/-0.50	
LDW22-IT809G (22L0246-48)		(Solid)		Lab File ID: NT1423010624.D				Analyzed: 01/07/23 01:27	
Chrysene-d12	266893	23.276	276883	23.276	96	50 - 200	0.000	+/-0.50	
Reference (BKL0585-SRM1)		(Solid)		Lab File ID: NT1423010633.D				Analyzed: 01/07/23 06:51	
Chrysene-d12	261300	23.276	276883	23.276	94	50 - 200	0.000	+/-0.50	
Calibration Check (SLA0068-CCV1)		(Water)		Lab File ID: NT1423010634.D				Analyzed: 01/07/23 07:27	
1,4-Dichlorobenzene-d4	105694	9.045	114022	9.037	93	50 - 200	0.008	+/-0.50	
Naphthalene-d8	397807	11.542	420653	11.534	95	50 - 200	0.008	+/-0.50	
Acenaphthene-d10	203080	15.179	216802	15.171	94	50 - 200	0.008	+/-0.50	
Phenanthrene-d10	331785	18.223	366121	18.215	91	50 - 200	0.008	+/-0.50	
Chrysene-d12	254746	23.276	276883	23.276	92	50 - 200	0.000	+/-0.50	
Di-n-Octylphthalate-d4	500355	24.306	540641	24.298	93	50 - 200	0.008	+/-0.50	
Perylene-d12	273505	25.909	308305	25.901	89	50 - 200	0.008	+/-0.50	

HOLDING TIME SUMMARY

Analysis: EPA 8270E

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 17:52	16	40	
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 18:31	16	40	
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 19:09	16	40	
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 21:05	16	40	
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 21:44	16	40	
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 22:22	16	40	
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 23:00	16	40	
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/06/23 19:26	10	40	
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/06/23 20:02	10	40	
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/06/23 20:38	10	40	
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/07/23 00:15	11	40	
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/07/23 00:51	11	40	
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/07/23 01:27	11	40	
Matrix Spike BKL0489-MS1	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 19:48	16	40	
Matrix Spike Dup BKL0489-MSD1	12/09/22 08:40	12/09/22 16:40	12/20/22 11:22	11	365	01/05/23 20:26	16	40	
Matrix Spike BKL0585-MS1	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/06/23 21:15	10	40	
Matrix Spike Dup BKL0585-MSD1	12/09/22 11:44	12/09/22 16:40	12/27/22 11:08	17	365	01/06/23 21:51	10	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: NT10

Analyte	MDL	RL	Units
Butylbenzylphthalate	9.4	20.0	ug/kg

METHOD DETECTION AND REPORTING LIMITS

EPA 8270E

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: NT14

Analyte	MDL	RL	Units
Butylbenzylphthalate	9.4	20.0	ug/kg

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001873

Printed: 9/23/2013 11:47:03AM

Description:	SVOC 4,4 DDT	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	23-Sep-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 11:46 by JZ
Vendor:	Chem Service	Lot #:	198-128A
Vendor Catalog #:			

Comments

Neat, Purity @ 99.2%. (ARI#: 790A)

Analyte	CAS Number	Concentration	Units
4,4'-DDT	50-29-3	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,4' DDT

Manufacturer: Chem Service

Product #: _____

Lot #: 198-128A

Purity: 99.2%

Analyst: AB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001875

Printed: 9/23/2013 12:13:55PM

Description:	SVOC alpha-Terpineol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 12:13 by JZ
Vendor:	ACROS Organics	Lot #:	AD16481201
Vendor Catalog #:			

Comments

Neat, Purity @ 98%. (ARI#: I1582A)

Analyte	CAS Number	Concentration	Units
alpha-Terpineol	98-55-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: alpha-Terpineol

Manufacturer: Acros Organics

Product #: _____

Lot #: A0648170 1

Purity: 98%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001885

Printed: 9/23/2013 3:45:57PM

Description:	SVOA Dibutyl Phenyl phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:45 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98.9%.

Analyte	CAS Number	Concentration	Units
Dibutyl Phenyl Phosphate	2528-36-1	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Dibutyl Phenyl Phosphate

Manufacturer: Monsanto

Product #: N/A

Lot #: N/A

Purity: 98.9%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001886

Printed: 9/23/2013 3:59:35PM

Description:	SVOC Triphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 15:59 by JZ
Vendor:	Aldrich	Lot #:	04902CM
Vendor Catalog #:			

Comments

Neat, Purity @ 99%.

Analyte	CAS Number	Concentration	Units
Triphenyl Phosphate	115-86-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Triphenyl Phosphate

Manufacturer: Aldrich

Product #: _____

Lot #: 04907CM

Purity: 99%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001887

Printed: 9/23/2013 4:18:55PM

Description:	SVOC Butylated Hydroxytoluene	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 16:18 by JZ
Vendor:	SIGMA	Lot #:	39F-0197
Vendor Catalog #:			

Comments

neat,Purity @ 99.9%.

Analyte	CAS Number	Concentration	Units
Butylated Hydroxytoluene	128-37-0	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butylated Hydroxytoluene

Manufacturer: Sigma

Product #: _____

Lot #: 39F-0197

Purity: 99.8%

Analyst: AR

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001890

Printed: 9/23/2013 5:02:53PM

Description:	SVOC Butyl Diphenyl Phosphate	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	23-Sep-13 17:02 by JZ
Vendor:	Monsanto	Lot #:	N/A
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Butyl Diphenyl Phosphate	2752-95-6	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: Butyl Diphenyl Phosphate

Manufacturer: Monsanto

Product #: NA

Lot #: NA

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001941

Printed: 9/25/2013 1:45:31PM

Description:	SVOC 2,4-Dinitrophenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 13:45 by JZ
Vendor:	SIGMA	Lot #:	65H5021
Vendor Catalog #:			

Comments

Neat, Purity @ 90-95%. (ARI#: 0466)

Analyte	CAS Number	Concentration	Units
2,4-Dinitrophenol	51-28-5	1000000	ug/mL

B001941
SVOA 2,4-Dinitrophenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 2,4-Dinitrophenol

Manufacturer: Sigma

Product #: _____

Lot #: bEH 502 1

Purity: 90 ~ 94%

Analyst: _____

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001945

Printed: 9/25/2013 3:23:22PM

Description:	SVOC Benzoic Acid	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	31-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:23 by JZ
Vendor:	ACROS Organics	Lot #:	A0224339
Vendor Catalog #:			

Comments

Neat, Purity @ 98%.

Analyte	CAS Number	Concentration	Units
Benzoic acid	65-85-0	1000000	ug/mL

B001945
SVOC Benzoic Acid
Expires 12/31/2029
Prepared By Jianqing Zhou 12/31/2012

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzoic Acid

Manufacturer: Acros Organics

Product #: _____

Lot #: A0224339

Purity: 98%

Analyst: [signature]

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B001948

Printed: 9/25/2013 3:37:51PM

Description:	SVOC 4,6-Dinitro-2-Methylphenol	Expires:	31-Dec-29
Standard Type:	Calibration Stan	Prepared:	25-Sep-13
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	25-Sep-13 15:37 by JZ
Vendor:	Chem Service	Lot #:	179-31A
Vendor Catalog #:			

Comments

Neat, Purity @ 99%. (ARI#: 009A)

Analyte	CAS Number	Concentration	Units
4,6-Dinitro-2-methylphenol	534-52-1	1000000	ug/mL

B001948
SVOA 4,6-Dinitro-2-Methylphenol
Expires 12/31/2029
Prepared By Jianqing Zhou 9/25/2013

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer: _____

Chemical: 4,6-Dinitro-2-Methylphenol

Manufacturer: Chem Service

Product #: _____

Lot #: 179-31A

Purity: 99%

Analyst: KB

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002054

Printed: 10/4/2013 6:32:21PM

Description:	SVOA 1-Methylnaphthalene	Expires:	02-Apr-14
Standard Type:	Analyte Spike	Prepared:	13-Dec-12
Solvent:	NA	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	04-Oct-13 18:32 by JZ
Vendor:	Chem Service	Lot #:	62-5B
Vendor Catalog #:			

Comments

Neat, Purity @ 99%

Analyte	CAS Number	Concentration	Units
1-Methylnaphthalene	90-12-0	1000000	ug/mL

B002054
SVOA 1-Methylnaphthalene
Solvent / Lot: NA
Prep: 12/13/2012 by JZ
Exp: 12/31/2029
Location:

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: 1-Methyl naphthalene

Manufacturer: Chem Service

Product #: 0787

Lot #: 67-53

Purity: 99%

Analyst: AZ

Analytical Resources, Incorporated

Analytical Standard Record
Analytical Resources, Inc.
Standard ID: B002135

Printed: 10/15/2013 12:07:39PM

Description:	SVOA Benzidine	Expires:	31-Dec-29
Standard Type:	Analyte Spike	Prepared:	15-Oct-13
Solvent:	N/A	Prepared By:	Jianqing Zhou
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	15-Oct-13 12:07 by JZ
Vendor:	SIGMA	Lot #:	18C0024
Vendor Catalog #:			

Comments

Purity @ 95%. ARI#: 0467.

Analyte	CAS Number	Concentration	Units
Benzidine	92-87-5	1000000	ug/mL

Reviewed By Date

Appendix 20.1

ALTERNATE CERTIFICATE OF ANALYSIS

The manufacturer of the below chemical was unable to provide a Certificate of Analysis at the time of request by ARI.

Date Requested from Manufacturer:_____

Chemical: Benzidine

Manufacturer: Sigma

Product #: B-3503

Lot #: 18C0024

Purity: 98%

Analyst: [signature]

Certificate of Analysis

Product Name:	1,2,4,5-Tetrachlorobenzene
Product Description:	98%
Product Brand:	Sigma-Aldrich
Product Number:	131857
Molecular Weight:	215.89
CAS Number:	95-94-3

TEST	SPECIFICATION	LOT 19309JR RESULTS
APPEARANCE	WHITE POWDER, CHIPS OR CRYSTALS	WHITE CHIPS
INFRARED SPECTRUM	CONFORMS TO STRUCTURE.	CONFORMS TO STRUCTURE AND STANDARD AS
** **		ILLUSTRATED ON PAGE 1011C OF EDITION I,
** **		VOLUME 1 OF "THE ALDRICH LIBRARY OF FT-IR
** **		SPECTRA".
GAS LIQUID	97.5% (MINIMUM)	99.9 %
QUALITY CONTROL		JULY 1997

Barbara Rajzer, Supervisor
Quality Control
Milwaukee, Wisconsin USA

F009172

SVOC 1,2,4,5-Tetrachlorobenzene
Expires 12/31/2079
Prepared By Joshua Rains 10/6/2017

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www.sigmaaldrich.com

Certificate of Composition - Analytical Standard

BASE STOCK

Product no.: 22523051
Lot no.: LRAC9813
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9813.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005199
SVOA-ABN BASE STOCK-200-800ug/ml
Expires 5/31/2023
Prepared By Jianqing Zhou 5/18/2021

Analyte	*Assigned Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
3,3'-DICHLOROBENZIDINE CAS# 91-94-1	802	µg/mL	99.9	LC27068
2,4-DINITROTOLUENE CAS# 121-14-2	802	µg/mL	97.8	LB46632
2,6-DINITROTOLUENE CAS# 606-20-2	801	µg/mL	99.9	LB79891
HEXACHLOROCYCLOPENTADIENE CAS# 77-47-4	802	µg/mL	96.0	LB95525
N-NITROSODIMETHYLAMINE CAS# 62-75-9	801	µg/mL	95.0	2019-030598 5
PERYLENE CAS# 198-55-0	201	µg/mL	99.6	04101PG
ANILINE CAS# 62-53-3	803	µg/mL	100.0	10126MG
4-CHLOROANILINE CAS# 106-47-8	803	µg/mL	100.0	MKBZ6909V
2-NITROANILINE CAS# 88-74-4	802	µg/mL	99.9	LC05068
3-NITROANILINE CAS# 99-09-2	802	µg/mL	99.9	LC09264
4-NITROANILINE CAS# 100-01-6	802	µg/mL	99.9	LC11400
PYRIDINE (LOW WATER) CAS# 110-86-1	802	µg/mL	100.0	SHBJ9218

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Certificate issue date: 12-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9813.01	12-May-2021	Original Release Date

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Certificate of Composition - Analytical Standard

ACID STOC"

Product no.: 22523046
Lot no.: LRAC9812
Expiry Date: May 2023
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: Dichloromethane
Certificate version: LRAC9812.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

J005200
SVOA-ABN ACID STOCK-200-800ug/ml
Solvent / Lot: DCM
Prep: 5/18/2021 by JZ
Exp: 5/31/2023
Location:

JZ 5/18/21

Analyte	Assigned Value	Units	Raw Material Purity,%	Raw Material Lot
2,4-DIMETHYLPHENOL CAS# 105-67-9	802	µg/mL	99.9	LB88935
2,4-DICHLOROPHENOL CAS# 120-83-2	802	µg/mL	100.0	BCBZ6787
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	802	µg/mL	99.9	JS00008
2,4-DINITROPHENOL CAS# 51-28-5	1806	µg/mL	75.9	MKBP5833V
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	803	µg/mL	98.7	LB82983
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	801	µg/mL	99.9	JS00013
4-NITROPHENOL CAS# 100-02-7	801	µg/mL	99.9	LC10889
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	1804	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	803	µg/mL	98.7	MKCK8156
BENZOIC ACID CAS# 65-85-0	1805	µg/mL	99.9	LC16514

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0167617

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2024 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

J005610
CLP 04.1 BNA SURR MIX
Expires 9/30/2024
Prepared By Jianqing Zhou 5/26/2021

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBF3761V) **Purity** 99%	1,506.0 µg/mL	+/- 8.9452 µg/mL +/- 43.9882 µg/mL +/- 53.3632 µg/mL	Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31658) **Purity** 99%	1,512.0 µg/mL	+/- 8.9808 µg/mL +/- 44.1635 µg/mL +/- 53.5758 µg/mL	Gravimetric Unstressed Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot M-2097) **Purity** 99%	1,006.0 µg/mL	+/- 5.9753 µg/mL +/- 29.3839 µg/mL +/- 35.6463 µg/mL	Gravimetric Unstressed Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940B) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00019169) **Purity** 99%	1,002.0 µg/mL	+/- 5.9516 µg/mL +/- 29.2671 µg/mL +/- 35.5046 µg/mL	Gravimetric Unstressed Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot S55013V) **Purity** 99%	1,502.0 µg/mL	+/- 8.9214 µg/mL +/- 43.8714 µg/mL +/- 53.2214 µg/mL	Gravimetric Unstressed Stressed

8	p-Terphenyl-d14		1,002.0	µg/mL	+/-	5.9516	µg/mL	Gravimetric
	CAS # 1718-51-0	(Lot PR-30504)			+/-	29.2671	µg/mL	Unstressed
	Purity 99%				+/-	35.5046	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

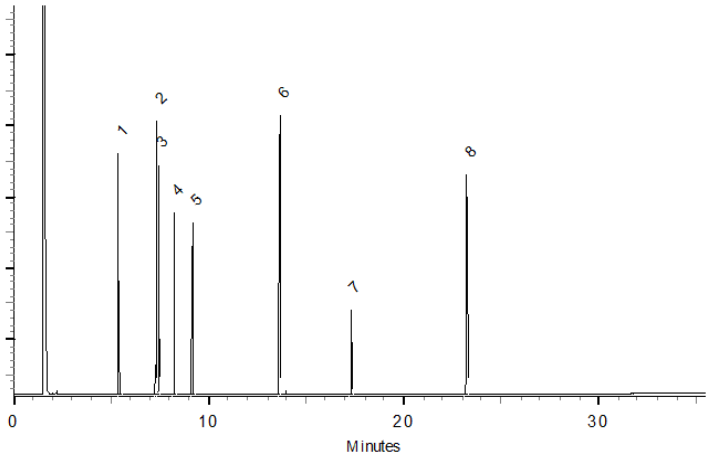
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

Date Mixed: 29-Dec-2020 **Balance:** B345965662

Justine Albertson - Operations Tech-ARM QC

Date Passed: 31-Dec-2020

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

Agilent

Certificate of Analysis

J008074

SVOA PAH STD 2000ug/ml
Expires 6/30/2023
Prepared By Joshua Rains 8/5/2021

Product Name: PAH Standard

Product Number: US-106N-1

Lot Number: 0006540449

Lot Issue Date: 11-Jun-2020

Expiration Date: 30-Jun-2023

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
acenaphthene	000083-32-9	RM10879	2008 ± 10 µg/mL
acenaphthylene	000208-96-8	RM10891	2003 ± 10 µg/mL
anthracene	000120-12-7	RM14212	2006 ± 10 µg/mL
benz[a]anthracene	000056-55-3	RM16072	2006 ± 10 µg/mL
benzo[b]fluoranthene	000205-99-2	RM14571	2005 ± 10 µg/mL
benzo[k]fluoranthene	000207-08-9	RM14321	2009 ± 10 µg/mL
benzo[ghi]perylene	000191-24-2	RM15761	2008 ± 10 µg/mL
benzo[a]pyrene	000050-32-8	RM12669	2009 ± 10 µg/mL
chrysene	000218-01-9	RM12260	2009 ± 10 µg/mL
dibenz[a,h]anthracene	000053-70-3	RM06786	2009 ± 10 µg/mL
fluoranthene	000206-44-0	RM12277	2004 ± 10 µg/mL
fluorene	000086-73-7	RM09441	2009 ± 10 µg/mL
indeno[1,2,3-cd]pyrene	000193-39-5	RM14192	2009 ± 10 µg/mL
naphthalene	000091-20-3	NT00970	2008 ± 10 µg/mL
phenanthrene	000085-01-8	RM10495	2009 ± 10 µg/mL
pyrene	000129-00-0	RM03479	2008 ± 10 µg/mL

Matrix: methylene chloride/benzene (1:1)

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Certificate of Analysis

Product Number: US-106N-1 **Lot Number:** 0006540449

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ISO 17034 Cert No.
AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 2 of 2

www.agilent.com/quality/

ISO 17025 Cert
No. AT-1937

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16062
Certification Date: November 19, 2020
Expiration Date: November 30, 2030

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 2.740%
3,3'-Dichlorobenzidine	91-94-1	2000	± 3.229%

J008310
Benzidines std @2000ug/ml
Expires 11/30/2030
Prepared By Van Spohn 8/12/2021

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

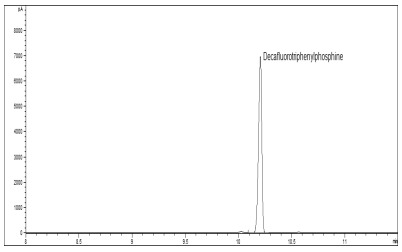
References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis - Certified Reference Material

Decafluorotriphenylphosphine solution

Product no.: 48724-U
Lot no.: LRAD0628
Expiry Date: October 2024
Manufacturing Date: September 2021
Storage: ROOM TEMPERATURE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0628.01 (*Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*

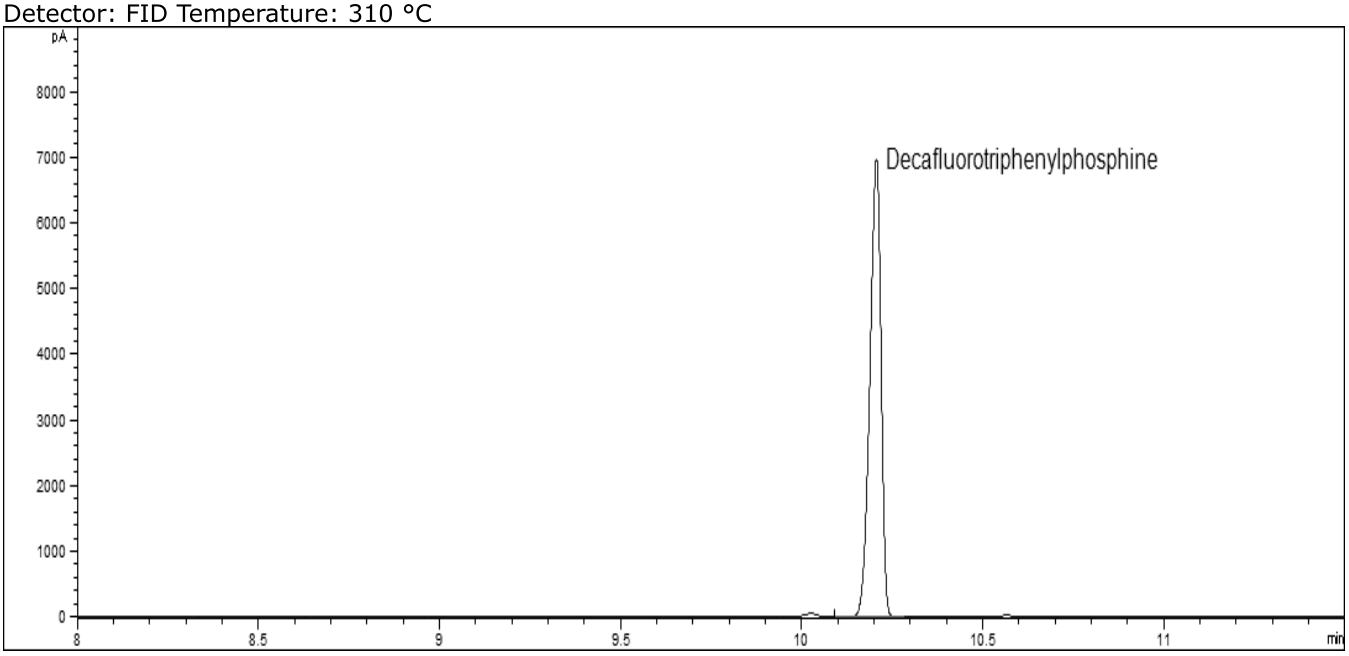


Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
DFTPP CAS# 5074-71-5	25.2 ± 2.6	mg/mL	97.0	10220909

ASSAY Method

METHOD: GC (BELLEFONTE)
Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.3 mL/min
Inlet Temperature: 250 °C Injection Volume: 1 µL
Injection Mode: 25:1
Temperature Program: 120 °C (Hold 0 min) @ 12 °C/min to 260 °C (Hold 0 min)
Detector: FID Temperature: 310 °C



Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Elution details:

EO	RT(MIN)	ANALYTE
1	10.206	Decafluorotriphenylphosphine

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Minimum sample size: 1 µL

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 30-Sep-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Scott Stetler - QA Manager

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0628.01	30-Sep-2021	Original Release Date

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Disclaimer: The purchaser is required to determine the suitability of this product for any particular application. Sigma-Aldrich RTC makes no warranty of any kind, express or implied, other than its products meet all quality control standards set by Sigma-Aldrich RTC. We do not guarantee that the product can be used for any particular application.

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

SIGMA-ALDRICH®
2931 Soldier Springs Rd. Laramie, Wyoming 82070 USA
800-325-5832
TechService@milliporesigma.com www.sigma-aldrich.com

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

ANAB ACCREDITED REFERENCE MATERIAL PRODUCER

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot LRAC8918
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

k: Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence Interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date January 05, 2021
Version 0-152021

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL16693
Certification Date: May 6, 2021
Expiration Date: April 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 4.383%

K3238

A2LA ACCREDITED
Reference Material Producer
Certicate No. 2427.02

phenova Certified Reference Materials | A Phenomenex Company

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

A2LA ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 25 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

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Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101443
Description: Aniline
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17696
Certification Date: December 14, 2021
Expiration Date: December 31, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aniline	62-53-3	1000	± 0.760%

K 3239

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Certificate of Analysis

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Access your Safety Data Sheets and digital Certificates at www.phenova.com/documents.

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Certified Values

Analyte	*Units*	*Certified Value* [1,4]
1,2,4-Trichlorobenzene	µg/Kg	1477 ± 181
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	1625 ± 292
1-Chloronaphthalene	µg/Kg	2809 ± 84
2,3-Dimethylphenol	µg/Kg	4552 ± 137
2,4,5-Trichlorophenol	µg/Kg	3438 ± 245
2,4,6-Trichlorophenol	µg/Kg	2194 ± 251
2,4-Dichlorophenol	µg/Kg	6991 ± 394
2,4-Dimethylphenol	µg/Kg	6357 ± 879
2,4-Dinitrophenol	µg/Kg	2922 ± 523
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	3318 ± 442
2,6-Dichlorophenol	µg/Kg	4578 ± 874
2,6-Dimethylphenol	µg/Kg	7582 ± 228
2-Chloronaphthalene	µg/Kg	2223 ± 168
2-Chlorophenol	µg/Kg	1678 ± 202
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	5148 ± 685
2-Methylphenol (o-Cresol)	µg/Kg	6004 ± 573
2-Nitrophenol	µg/Kg	6456 ± 383
3,4-Dimethylphenol	µg/Kg	7185 ± 216
3+4-Methylphenol (m+p-Cresol)	µg/Kg	8033 ± 1613
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	7169 ± 310
4-Chloro-3-methylphenol	µg/Kg	2071 ± 110
4-Chlorophenyl phenylether	µg/Kg	2052 ± 113
4-Methylphenol (p-Cresol)	µg/Kg	6617 ± 1371
4-Nitrophenol	µg/Kg	6812 ± 595
Acenaphthene	µg/Kg	5489 ± 380

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Acenaphthylene	µg/Kg	1948 ± 240
Anthracene	µg/Kg	2866 ± 237
Benzo(a)anthracene	µg/Kg	5751 ± 552
Benzo(a)pyrene	µg/Kg	5902 ± 612
Benzo(b)fluoranthene	µg/Kg	3010 ± 409
Benzo(b+k)fluoranthene	µg/Kg	6534 ± 196
Benzo(g,h,i)perylene	µg/Kg	1380 ± 136
Benzo(k)fluoranthene	µg/Kg	2215 ± 237
Butyl benzyl phthalate	µg/Kg	3511 ± 384
Carbazole	µg/Kg	5412 ± 407
Chrysene	µg/Kg	1477 ± 72
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	2905 ± 321
Dibenzo(a,h)anthracene	µg/Kg	3420 ± 302
Dibenzofuran	µg/Kg	6130 ± 253
Dimethyl phthalate	µg/Kg	4537 ± 250
Di-n-butyl phthalate	µg/Kg	1721 ± 154
Di-n-octyl phthalate	µg/Kg	2744 ± 288
Fluoranthene	µg/Kg	2497 ± 222
Fluorene	µg/Kg	3724 ± 222
Hexachlorobutadiene	µg/Kg	1877 ± 245
Indeno(1,2,3-cd) pyrene	µg/Kg	3914 ± 409
Isophorone	µg/Kg	1615 ± 170
Naphthalene	µg/Kg	4458 ± 480
Nitrobenzene	µg/Kg	3539 ± 266
n-Nitrosodimethylamine	µg/Kg	1580 ± 402
n-Nitrosodiphenylamine	µg/Kg	2854 ± 379
Pentachlorophenol	µg/Kg	3411 ± 358
Phenanthrene	µg/Kg	5052 ± 385
Phenol	µg/Kg	2660 ± 184
Pyrene	µg/Kg	2964 ± 256
Pyridine	µg/Kg	1008 ± 30

Informational Values

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID CRM143-50G
Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Analyte	*Units*	*Suggested Acceptance Windows*	*Standard Deviation*
1,2,4-Trichlorobenzene	µg/Kg	148 to 2853	459
1,3-Dichlorobenzene (m-Dichlorobenzene)	µg/Kg	163 to 3440	605
1-Chloronaphthalene	µg/Kg	1123 to 4494	562
2,3-Dimethylphenol	µg/Kg	1821 to 7284	910
2,4,5-Trichlorophenol	µg/Kg	1003 to 5872	811
2,4,6-Trichlorophenol	µg/Kg	640 to 3748	518
2,4-Dichlorophenol	µg/Kg	2391 to 11591	1533
2,4-Dimethylphenol	µg/Kg	0.00 to 13959	2534
2,4-Dinitrophenol	µg/Kg	1169 to 4675	584
2,4-Dinitrotoluene (2,4-DNT)	µg/Kg	1248 to 5388	690
2,6-Dichlorophenol	µg/Kg	1831 to 7324	916
2,6-Dimethylphenol	µg/Kg	3033 to 12132	1516
2-Chloronaphthalene	µg/Kg	748 to 3699	492
2-Chlorophenol	µg/Kg	415 to 2942	421
2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2-methylphenol)	µg/Kg	0.00 to 10347	1733
2-Methylphenol (o-Cresol)	µg/Kg	1306 to 10702	1566
2-Nitrophenol	µg/Kg	1534 to 11379	1641
3,4-Dimethylphenol	µg/Kg	2874 to 11495	1437
3+4-Methylphenol (m+p-Cresol)	µg/Kg	4054 to 16218	2027
4-Bromophenyl phenyl ether (BDE-3)	µg/Kg	2901 to 11437	1423
4-Chloro-3-methylphenol	µg/Kg	677 to 3464	464
4-Chlorophenyl phenylether	µg/Kg	756 to 3348	432
4-Methylphenol (p-Cresol)	µg/Kg	2647 to 10587	1323
4-Nitrophenol	µg/Kg	681 to 14762	2650
Acenaphthene	µg/Kg	2243 to 8736	1082
Acenaphthylene	µg/Kg	712 to 3183	412
Anthracene	µg/Kg	1218 to 4515	550
Benzo(a)anthracene	µg/Kg	2806 to 8696	982
Benzo(a)pyrene	µg/Kg	2512 to 9292	1130
Benzo(b)fluoranthene	µg/Kg	1197 to 4822	604
Benzo(b+k)fluoranthene	µg/Kg	2614 to 10454	1307

Description

Lot **LRAC8918**
Expiration Date January 2024
Manufacturing Date January 2021
Storage Conditions Refrigerate
Solvent/Matrix SOIL

Benzo(g,h,i)perylene	µg/Kg	489 to 2271	297
Benzo(k)fluoranthene	µg/Kg	892 to 3537	441
Butyl benzyl phthalate	µg/Kg	1255 to 5766	752
Carbazole	µg/Kg	2032 to 8792	1127
Chrysene	µg/Kg	669 to 2284	269
Di(2-ethylhexyl) phthalate (bis(2-Ethylhexyl)phthalate, DEHP)	µg/Kg	765 to 5045	713
Dibenzo(a,h)anthracene	µg/Kg	1257 to 5583	721
Dibenzofuran	µg/Kg	2766 to 9493	1121
Dimethyl phthalate	µg/Kg	1842 to 7231	898
Di-n-butyl phthalate	µg/Kg	495 to 2947	409
Di-n-octyl phthalate	µg/Kg	690 to 4798	685
Fluoranthene	µg/Kg	984 to 4009	504
Fluorene	µg/Kg	1638 to 5810	695
Hexachlorobutadiene	µg/Kg	425 to 3329	484
Indeno(1,2,3-cd) pyrene	µg/Kg	870 to 6957	1015
Isophorone	µg/Kg	437 to 2792	392
Naphthalene	µg/Kg	1131 to 7784	1109
Nitrobenzene	µg/Kg	1024 to 6054	838
n-Nitrosodimethylamine	µg/Kg	632 to 2528	316
n-Nitrosodiphenylamine	µg/Kg	1142 to 4567	571
Pentachlorophenol	µg/Kg	341 to 7037	1209
Phenanthrene	µg/Kg	2307 to 7798	915
Phenol	µg/Kg	681 to 4639	660
Pyrene	µg/Kg	1118 to 4810	615
Pyridine	µg/Kg	403 to 1613	202

Additional Information:

DESCRIPTION

The organic sample is a soil containing extractable BNAs for analysis by 8100, 8270, 8310 or equivalent methods.

This product consist of a 5 vials each containing 10g of soil for analysis of PAHs. Each vial is identical and has been tested how homogeneity. Only one vial is need for test the remaining vials are to be used for multiple methods or routine testing.

The soil has been sterilized to minimize degradation of the sample.

The sample has been sized to 100 mesh.

Required storage condition is 4ºC.

The sample has been intentionally prepared with an apparent headspace.

STORAGE

The sample should be stored at 4ºC. It has been determined to be stable for the duration of the expiration date.

After sub-sampling replace cap securely and store remaining sample at 4ºC.

The shelf life of the product was determined by historic stability of similar CRM's. The expiration date may be extended based on stock and popularity upon successful stability testing by a 17025 accredited laboratory.

Certificate of Analysis

BNAs - Sandy Loam 1

Certified Reference Material

Description

Product ID	CRM143-50G
Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

Stability and shelf life after opening must be determined by the user, taking into account sampling frequency/volume and all local conditions.

SAMPLE PREPARATION

Extract the complete contents of a single vial. Transfer entire contents of one vial to extraction vessel. Rinse vial and cap with extraction solvent.

Assume a 10g sample size for all calculations.

Note: Sample extracts and calibration solutions should be in the same solvent.

Report all results on a wet weight basis, do not correct for moisture.

NOTE: For method 8100 and using a packed column gas chromatographic method or cannot adequately resolve the following may coelute in four pairs of compounds: anthracene and phenanthrene; chrysene and benzo(a)anthracene; benzo(b)fluoranthene and benzo(k)fluoranthene; and dibenzo(a,h)anthracene and indeno(1,2,3-cd)pyrene.

SCOPE AND APPLICATION

The BNAs in Soil Certified Reference Material (CRM) consists of 5 10mL VOA vials, with a Teflon lined closures containing approximately 10 grams of soil, fortified with BNAs. Being a natural matrix waste sample the analyst is challenged by the same preparation problems, analytical interferences, etc. as is typical for similar matrices received by the laboratory for analysis.

Description

Lot	**LRAC8918**
Expiration Date	January 2024
Manufacturing Date	January 2021
Storage Conditions	Refrigerate
Solvent/Matrix	SOIL

1 **Metrological traceability:** Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.
4 Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. K=2 unless specified. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom } ogeneity}^2 + u_{stability}^2}$$

***k*:** Coverage factor derived from a t-distribution table, based on the degrees of freedom of the data set. Assume 2.0 for a **Confidence interval = 95%**

6 Analytical Value- For QC verification of the certified value only- not to be used in calculations. Represents the analytical data obtained by comparison to a standard as analyzed by the method described in the CoA or another acceptable method. The result may differ from the certified value and UCRM based on method uncertainty as well as the uncertainty associated with the standard used for comparison.

Traceability: The standard was manufactured under an ISO/IEC 17025:2017 certified quality system. The balance used to weigh raw materials is accurate to +/- 0.0001g and calibrated regularly using mass standards traceable to NIST. All dilutions were preformed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Homogeneity: Homogeneity was assessed in accordance with ISO 17034:2016. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared using a one-way analysis of variance approach as described by TNI EL-V3-2009 Appendix A.2. See Instructions for minimum sub-sample size.

Expiration is at end of month given on certificate and label.

MSDS reports for components comprising greater than 1.0% of the solution or 0.1% for components known to be carcinogens are available upon request.

THIS PRODUCT WAS DESIGNED, PRODUCED AND VERIFIED FOR ACCURACY AND STABILITY IN ACCORDANCE WITH **ISO/IEC 17025:2017 (ANAB Cert AT-1467)** and **ISO 17034:2016 (ANAB Cert AR-1470).**

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Certification Date	January 05, 2021
Version	0-152021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Certificate of Analysis

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101291	**Lot Number:**	CL11000
Description:	GC/MS Tuning Mix	**Certification Date:**	May 9, 2014
Storage:	4 °C	**Expiration Date:**	December 31, 2023
Provided As:	1 mL in 2 mL Ampoule in Methylene chloride	**Revision Date:**	August 5, 2015

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty (%)
Benzidine	92-87-5	1000	± 0.208%
Decafluorotriphenylphosphine (DFTPP)	5074-71-5	1000	± 0.057%
4,4'-DDT	50-29-3	1000	± 0.056%
Pentachlorophenol	87-86-5	1000	± 0.061%

K003891
GC/MS Tune solution-1000ug/ml
Solvent / Lot: CL11000
Prep: 4/22/2022 by VS
Exp: 12/31/2023
Location:

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111110613_us

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-103N-1 **Lot Issue Date:** 25-May-2021

Lot Number: 0006609664 **Expiration Date:** 30-Jun-2024

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
benzoic acid	000065-85-0	RM01884	2005 ± 10 µg/mL
o-cresol	000095-48-7	RM12877	2005 ± 10 µg/mL
p-cresol	000106-44-5	RM01988	2005 ± 10 µg/mL
2,4,5-trichlorophenol	000095-95-4	NT00344	2004 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

5/11/22

K004539
toxic sub mix#1
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 6/30/2024
Location:

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: Phenols Standard
Product Number: US-107N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006648297
Lot Issue Date: 17-Nov-2021
Expiration Date: 31-Dec-2024

Component Name	CERTIFIED VALUES Concentration	Expanded Uncertainty	CAS#	Analyte Lot
4-chloro-3-methylphenol	2006 ±	10 µg/mL	000059-50-7	RM01885
2-chlorophenol	2007 ±	10 µg/mL	000095-57-8	RM01871
2,4-dichlorophenol	2005 ±	10 µg/mL	000120-83-2	RM13878
2,4-dimethylphenol	2006 ±	10 µg/mL	000105-67-9	RM13009
2,4-dinitrophenol	2006 ±	10 µg/mL	000051-28-5	RM02112
2-methyl-4,6-dinitrophenol	2005 ±	10 µg/mL	000534-52-1	RM02292
2-nitrophenol	2007 ±	10 µg/mL	000088-75-5	RM13445
4-nitrophenol	2006 ±	10 µg/mL	000100-02-7	RM03752
pentachlorophenol	2006 ±	10 µg/mL	000087-86-5	RM02474
phenol	2006 ±	10 µg/mL	000108-95-2	RM11471
2,4,6-trichlorophenol	2006 ±	10 µg/mL	000088-06-2	RM18096

Matrix: methylene chloride (dichloromethane)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

5/11/22

CSD-QA-015.1

K004540
phenols mix
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 12/31/2024
Location:

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name: PAH Standard
Product Number: US-106N-1
Storage Conditions: Store at Room Temperature (15° to 30°C).

Lot Number: 0006627349
Lot Issue Date: 17-Sep-2021
Expiration Date: 31-Oct-2024

Component Name	CERTIFIED VALUES Concentration		Expanded Uncertainty	CAS#	Analyte Lot
acenaphthene	2007	±	10 µg/mL	000083-32-9	RM10879
acenaphthylene	2004	±	10 µg/mL	000208-96-8	RM10891
anthracene	2006	±	10 µg/mL	000120-12-7	RM14212
benz[a]anthracene	2006	±	10 µg/mL	000056-55-3	RM16072
benzo[b]fluoranthene	2006	±	10 µg/mL	000205-99-2	RM14571
benzo[k]fluoranthene	2006	±	10 µg/mL	000207-08-9	RM18376
benzo[ghi]perylene	2006	±	10 µg/mL	000191-24-2	RM15761
benzo[a]pyrene	2006	±	10 µg/mL	000050-32-8	RM17573
chrysene	2007	±	10 µg/mL	000218-01-9	RM13771
dibenz[a,h]anthracene	2006	±	10 µg/mL	000053-70-3	RM06786
fluoranthene	2006	±	10 µg/mL	000206-44-0	RM12277
fluorene	2006	±	10 µg/mL	000086-73-7	RM09441
indeno[1,2,3-cd]pyrene	2006	±	10 µg/mL	000193-39-5	RM14192
naphthalene	2007	±	10 µg/mL	000091-20-3	RM10445
phenanthrene	2005	±	10 µg/mL	000085-01-8	RM10495
pyrene	2005	±	10 µg/mL	000129-00-0	RM16126

Matrix: methylene chloride/benzene (1:1)

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

K004541
SVOA PAH STD 2000ug/ml
Solvent / Lot: DCM/BENZENE
Prep: 5/11/2022 by JZ
Exp: 10/31/2024
Location: Fridge 19

CSD-QA-015.1

11/22

Agilent

Certificate of Analysis

Product Name: 1-Methylnaphthalene Standard

Product Number: EPA-1225-1 **Lot Issue Date:** 19-Jul-2021

Lot Number: 0006624769 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
1-methylnaphthalene	000090-12-0	RM07712	999.3 ± 5.0 µg/mL

Matrix: methanol (methyl alcohol)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

K004543
1-Methylnaphthalene
Solvent / Lot: MEOH
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

5/11/22

Sample lot approver:
Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Toxic Substances Standard

Product Number: US-104N-1 **Lot Issue Date:** 02-Jul-2021

Lot Number: 0006620643 **Expiration Date:** 31-Jul-2023

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
aniline	000062-53-3	RM12853	2005 ± 10 µg/mL
benzyl alcohol	000100-51-6	RM10547	2004 ± 10 µg/mL
4-chloroaniline	000106-47-8	RM01886	2002 ± 10 µg/mL
dibenzofuran	000132-64-9	RM02077	2002 ± 10 µg/mL
2-methylnaphthalene	000091-57-6	RM01258	2006 ± 10 µg/mL
2-nitroaniline	000088-74-4	RM02402	2003 ± 10 µg/mL
3-nitroaniline	000099-09-2	RM02424	2003 ± 10 µg/mL
4-nitroaniline	000100-01-6	RM02425	2003 ± 10 µg/mL

Matrix: methylene chloride (dichloromethane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

K004544
toxic sub mix#2
Solvent / Lot: methylene chloride
Prep: 5/11/2022 by JZ
Exp: 7/31/2023
Location:

05/11/22

ANAB ACCREDITED ISO17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31493 **Lot No.:** A0181243

Description : CLP 04.1 BNA Surrogate Mix

CLP 04.1 BNA Surrogate Mix 1000-1500 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2025 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

05/11/22

K004545
CLP 04.1 BNA SURR MIX
Solvent / Lot: AO175316
Prep: 5/11/2022 by JZ
Exp: 10/20/2025
Location:

Elution Order	Compound	Gr (weig					
1	2-Fluorophenol **CAS #** 367-12-4 (Lot STBJ2508) **Purity** 99%	1,50					
				+/-	53.3632	µg/mL	Stressed
2	Phenol-d6 **CAS #** 13127-88-3 (Lot PR-31262) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed
3	2-Chlorophenol-d4 **CAS #** 93951-73-6 (Lot PR-30568) **Purity** 99%	1,510.0	µg/mL	+/-	8.9689	µg/mL	Gravimetric
				+/-	44.1050	µg/mL	Unstressed
				+/-	53.5049	µg/mL	Stressed
4	1,2-Dichlorobenzene-d4 **CAS #** 2199-69-1 (Lot PR-32542/022621DB1 **Purity** 99%	1,004.0	µg/mL	+/-	5.9635	µg/mL	Gravimetric
				+/-	29.3255	µg/mL	Unstressed
				+/-	35.5754	µg/mL	Stressed
5	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	1,008.0	µg/mL	+/-	5.9872	µg/mL	Gravimetric
				+/-	29.4423	µg/mL	Unstressed
				+/-	35.7172	µg/mL	Stressed
6	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 19169) **Purity** 99%	1,006.0	µg/mL	+/-	5.9753	µg/mL	Gravimetric
				+/-	29.3839	µg/mL	Unstressed
				+/-	35.6463	µg/mL	Stressed
7	2,4,6-Tribromophenol **CAS #** 118-79-6 (Lot MKCJ7664) **Purity** 99%	1,506.0	µg/mL	+/-	8.9452	µg/mL	Gravimetric
				+/-	43.9882	µg/mL	Unstressed
				+/-	53.3632	µg/mL	Stressed

Certificate of Analysis

phenova Certified Reference Materials | A Phenomenex Company

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101246
Description: Benzoic Acid
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17953
Certification Date: January 31, 2022
Expiration Date: January 31, 2032

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzoic acid	65-85-0	2000	± 2.714%

K004603
Benzoic Acid @2000ug/ml
Solvent / Lot: N/A
Prep: 5/13/2022 by JZ
Exp: 1/31/2032
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018 us

Certificate of Analysis

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101244
Description: Benzidines Standard
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Methylene Chloride

Lot Number: CL17662
Certification Date: December 2, 2021
Expiration Date: November 30, 2031

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Benzidine	92-87-5	2000	± 0.211%
3,3'-Dichlorobenzidine	91-94-1	2000	± 1.305%

K004604
Benzidines std @2000ug/ml
Solvent / Lot: MeCl2
Prep: 5/13/2022 by JZ
Exp: 11/30/2031
Location: GC

5/13/22

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

Supelco®

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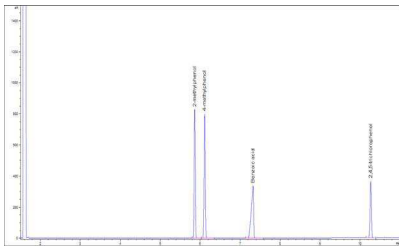
Certificate of Analysis - Certified Reference Material

EPA TCL Hazardous Substances Mix 1

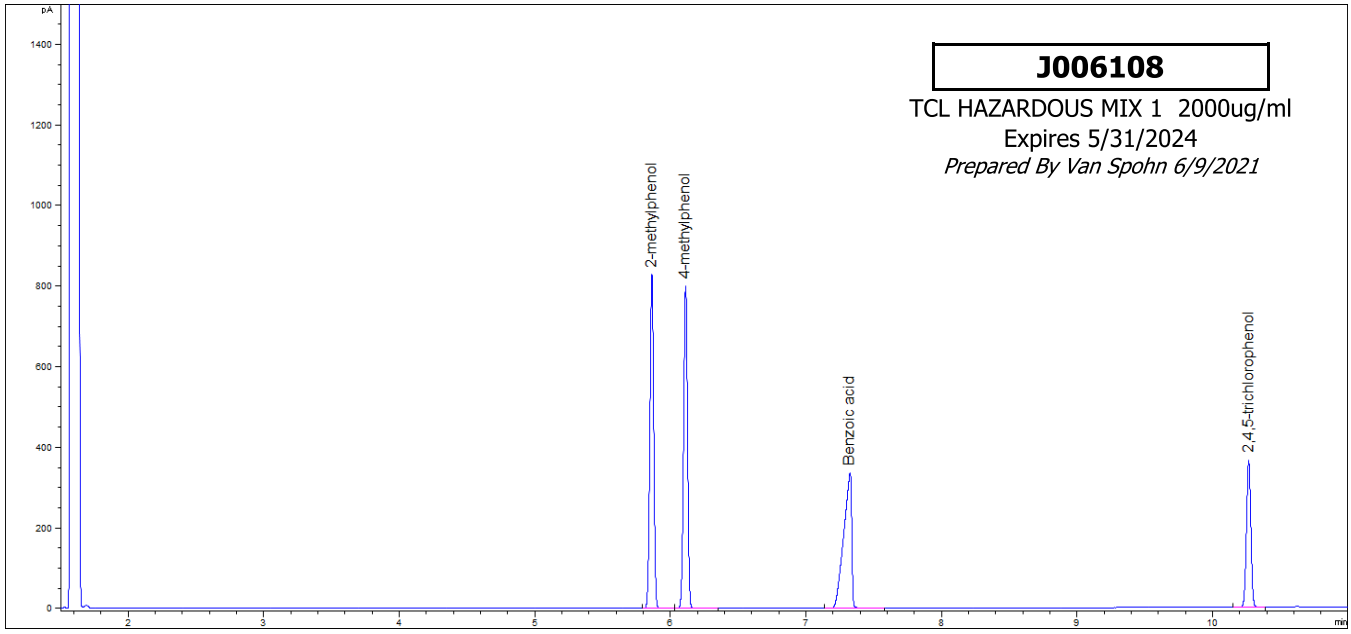
Product no.: 48907
Lot no.: LRAC9610
Expiry Date: May 2024
Manufacturing Date: May 2021
Storage: Refrigerate
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAC9610.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Elution order*	*Raw Material Lot*
2-METHYLPHENOL CAS# 95-48-7	2004 ± 9	µg/mL	99.0	1	G1735A
4-METHYLPHENOL CAS# 106-44-5	2004 ± 13	µg/mL	98.9	2	06921MG
BENZOIC ACID CAS# 65-85-0	2012 ± 6	µg/mL	99.9	3	LC16514
2,4,5-TRICHLOROPHENOL CAS# 95-95-4	2003 ± 6	µg/mL	99.9	4	JS00008

Informational Values:



Additional Information:
Analytical Method Parameters:
Column: Equity-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness (Column #98)
Carrier Gas: H2, Flow: 4.5 mL/min
Inlet Temperature: 170 °C, Injection Volume: 1 µL
Injection Mode: Split, Split Ratio: 20:1

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.

Temperature Program: 80 °C @ 10 °C/min to 190 °C (Hold 5 min)
Detector: FID
Detector Temperature: 310 °C

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 20-May-2021

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{\text{hom}\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAC9610.01	20-May-2021	Original Release Date

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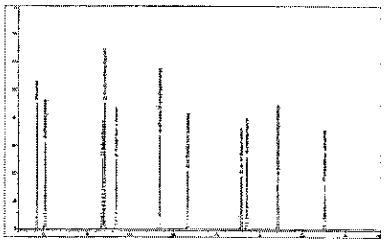
Certificate of Analysis - Certified Reference Material

EPA TCL Phenols Mix

Product no.: 48904
Lot no.: LRAD0139
Expiry Date: July 2024
Manufacturing Date: July 2021
Storage: REFRIGERATE
Solvent/Matrix: DICHLOROMETHANE
Certificate version: LRAD0139.01 *(Note: Certificates may be updated due to the availability of new data. Check our website at: www.sigma-aldrich.com for the most current version.)*



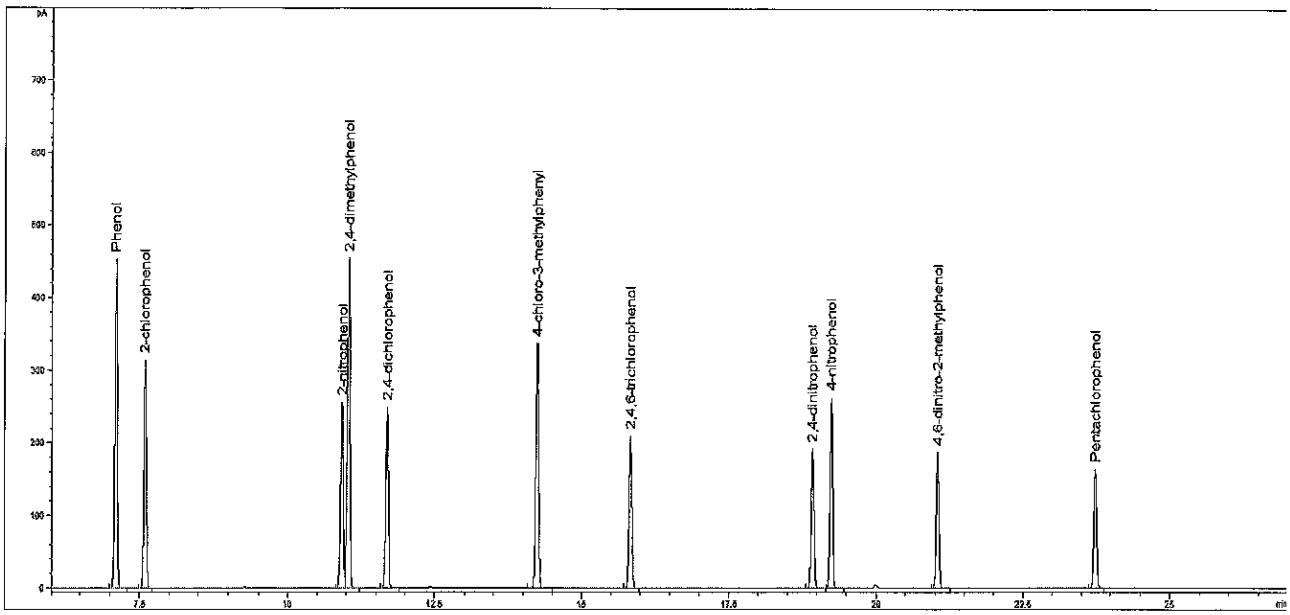
Certified Values:

Analyte	*Certified Value*	*Units*	*Raw Material Purity,%*	*Raw Material Lot*
2-CHLOROPHENOL CAS# 95-57-8	2001 ± 25	µg/mL	99.9	STBG3033V
2-NITROPHENOL CAS# 88-75-5	1999 ± 18	µg/mL	99.3	15905BB
2,4-DIMETHYLPHENOL CAS# 105-67-9	2000 ± 14	µg/mL	99.2	05421CO
2,4-DICHLOROPHENOL CAS# 120-83-2	2000 ± 17	µg/mL	99.5	03221TN
4-CHLORO-3-METHYLPHENOL CAS# 59-50-7	2000 ± 5	µg/mL	99.9	JS00013
2,4,6-TRICHLOROPHENOL CAS# 88-06-2	2002 ± 5	µg/mL	99.5	04212PS
2,4-DINITROPHENOL CAS# 51-28-5	2000 ± 28	µg/mL	66.9	STBJ5751
4-NITROPHENOL CAS# 100-02-7	2000 ± 33	µg/mL	99.0	04628LT
2-METHYL-4,6-DINITROPHENOL CAS# 534-52-1	2000 ± 27	µg/mL	99.7	LC18338
PENTACHLOROPHENOL CAS# 87-86-5	1999 ± 25	µg/mL	97.9	MKCD2150

ASSAY Method

J013597
TCL Phenols Mix 2000ug/ml
Solvent / Lot: LRAD0139
Prep: 12/30/2021 by VS
Exp: 7/31/2024
Location:

Sigma-Aldrich RTC, 2931 Soldier Springs Rd. Laramie, WY 82070, USA;
Tel. 1 307-742-5452; Fax 1 855-831-9211; www.sigmaaldrich.com
Sigma-Aldrich RTC is a subsidiary of Merck KGaA, Darmstadt, Germany.



METHOD: GC (Bellefonte Method)

Column: SPB-5, 30 m × 0.53 mm I.D., 1.5 µm film thickness
Carrier Gas: H_2 Flow Rate: 4.5 mL/min
Inlet Temperature: 200 °C Injection Volume: 1.0 µL
Injection Mode: 25:1
Temperature Program: 80 °C (Hold 2 min) @ 6 °C/min to 260 °C (Hold 5 min)
Detector: FID Temperature: 310 °C

Elution details:

EO	RT(MIN)	ANALYTE
1	7.095	Phenol
2	7.585	2-chlorophenol
3	10.925	2-nitrophenol
4	11.037	2,4-dimethylphenol
5	11.696	2,4-dichlorphenol
6	14.242	4-chloro-3-m3thylphenol
7	15.842	2,4,6-trichlorophenol
8	18.93	2,4-dinitrophenol
9	19.25	4-nitrophenol
10	21.05	4,6-dinitro-2-methylphenol
11	23.752	Pentachlorophenol

Metrological traceability: Traceable to the SI and higher order standards from NIST through an unbroken chain of comparisons. The balance used to weigh raw materials is accurate to +/-0.0001 g and calibrated regularly using mass standards traceable to NIST. All dilutions were performed gravimetrically. Additionally, individual analytes are traceable to NIST SRMs where available and specified above.

Measurement method: Where applicable, the assigned value is based on a purity determination by mass balance and gravimetrically prepared value.

Intended use: Intended for R&D and Analytical Use only. Not for drug, household or other uses.

Packaging: 1 mL in amber ampule

Instructions for handling and correct use: Use on the as is basis. The internal pressure of the container may be slightly different from the atmospheric pressure at the user`s location. Open slowly and carefully to avoid dispersion of the material.

Health and safety information: All chemical reference materials should be considered potentially hazardous and should be used only by qualified laboratory personnel. Please refer to the Safety Data Sheet for detailed information about the nature of any hazard and appropriate precautions to be taken.

Accreditation: Sigma-Aldrich RTC is accredited by the US accreditation authority ANAB as a registered reference material producer AR-1470 in accordance with ISO 17034.

Certificate issue date: 12-Jul-2021

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

Andy Ommen - QC Manager

Mark Pooler - QA Supervisor

Details on metrological traceability: This standard has been gravimetrically prepared using balances that have been fully qualified and calibrated to ISO 17025 requirements. All calibrations utilize NIST traceable weights which are calibrated externally by a qualified ISO 17025 accredited calibration laboratory to NIST standards. Qualification of each balance includes the assignment of a minimum weighing by a qualified and ISO 17025 accredited calibration vendor taking into consideration the balance and installed environmental conditions to ensure compliance with USP tolerances of NMT 0.10% relative error. Fill volume to predetermined specifications is gravimetrically verified throughout the dispensing process using qualified and calibrated balances. Further traceability to a corresponding Primary Standard may be achieved through a direct comparison assay. Where a Primary Standard is available, the assay value will be included in the specified section of the COA.

Associated uncertainty: Ucrm - Uncertainty values in this document are expressed as Expanded Uncertainty (Ucrm) corresponding to the 95% confidence interval. Ucrm is derived from the combined standard uncertainty multiplied by the coverage factor k, which is obtained from a *t*-distribution and degrees of freedom. The components of combined standard uncertainty include the uncertainties due to characterization, homogeneity, long term stability, and short term stability (transport). The components due to stability are generally considered to be negligible unless otherwise indicated by stability studies. The mathematical representation of the Ucrm calculation is as follows:

$$u_{CRM} = \sqrt{u_{char}^2 + u_{hom\ ogeneity}^2 + u_{stability}^2}$$

Homogeneity assessment: Homogeneity was assessed in accordance with ISO Guide 35. Completed units were sampled using a random stratified sampling protocol. The results of chemical analysis were then compared by Single Factor Analysis of Variance (ANOVA). The uncertainty due to homogeneity was derived from the ANOVA. Heterogeneity was not detected under the conditions of the ANOVA.

Stability assessment: Significance of the stability assessment will be demonstrated if the analytical result of the study and the range of values represented by the Expanded Uncertainty do not overlap the result of the original assay and the range of its values represented by the Expanded Uncertainty. The method employed will usually be the same method used to characterize the assay value in the initial

Certificate of analysis revision history:

Certificate version	Date	Reason for version
LRAD0139.01	12-Jul-2021	Original Release Date

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The life science business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the US and Canada.

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ■ Tel: 303-940-0033 ■ Fax: 303-940-0043 ■ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101444
Description: 8270 Calibration Standard
Storage: -18 °C
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Lot Number: CL18355
Certification Date: July 25, 2022
Expiration Date: August 31, 2023

K007995
SVOA-8270 LCS MIX 1000ug/ml
Solvent / Lot: N/A
Prep: 8/29/2022 by JZ
Exp: 8/31/2023
Location: FREEZER 44

Aaron Dukes, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Acenaphthene	83-32-9	1000	± 0.300%
Acenaphthylene	208-96-8	1000	± 0.225%
Anthracene	120-12-7	1000	± 6.858%
Azobenzene	103-33-3	1000	± 0.224%
Benzo(a)anthracene	56-55-3	1000	± 0.247%
Benzo(a)pyrene	50-32-8	1000	± 0.270%
Benzo(b)fluoranthene	205-99-2	1000	± 0.635%
Benzo(k)fluoranthene	207-08-9	1000	± 0.682%
Benzo(g,h,i)perylene	191-24-2	1000	± 0.272%
Benzyl alcohol	100-51-6	1000	± 0.231%
Benzyl butyl phthalate	85-68-7	1000	± 0.480%
bis(2-Chloroethoxy)methane	111-91-1	1000	± 0.479%
bis(2-Chloroethyl) ether	111-44-4	1000	± 0.479%
bis(2-Chloroisopropyl) ether	108-60-1	1000	± 0.550%
bis(2-Ethylhexyl) adipate	103-23-1	1000	± 0.479%
bis(2-Ethylhexyl) phthalate	117-81-7	1000	± 0.479%
4-Bromophenyl phenyl ether	101-55-3	1000	± 0.479%
Carbazole	86-74-8	1000	± 0.146%

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Description: 8270 Calibration Standard
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Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
4-Chloroaniline	106-47-8	1000	± 0.300%
4-Chloro-3-methylphenol	59-50-7	1000	± 0.545%
2-Chloronaphthalene	91-58-7	1000	± 0.224%
2-Chlorophenol	95-57-8	1000	± 0.507%
4-Chlorophenyl phenyl ether	7005-72-3	1000	± 0.479%
Chrysene	218-01-9	1000	± 0.145%
Dibenz(a,h)anthracene	53-70-3	1000	± 1.058%
Dibenzofuran	132-64-9	1000	± 0.302%
Di-n-butyl phthalate	84-74-2	1000	± 0.518%
1,2-Dichlorobenzene	95-50-1	1000	± 0.247%
1,3-Dichlorobenzene	541-73-1	1000	± 0.225%
1,4-Dichlorobenzene	106-46-7	1000	± 0.224%
2,4-Dichlorophenol	120-83-2	1000	± 0.545%
Diethyl phthalate	84-66-2	1000	± 0.518%
2,4-Dimethylphenol	105-67-9	1000	± 0.507%
Dimethyl phthalate	131-11-3	1000	± 0.518%
1,2-Dinitrobenzene	528-29-0	1000	± 0.361%
1,3-Dinitrobenzene	99-65-0	1000	± 0.300%
1,4-Dinitrobenzene	100-25-4	1000	± 0.242%
2,4-Dinitrophenol	51-28-5	1000	± 0.545%
2,4-Dinitrotoluene	121-14-2	1000	± 1.128%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2,6-Dinitrotoluene	606-20-2	1000	± 0.224%
Di-n-octyl phthalate	117-84-0	1000	± 0.486%
Fluoranthene	206-44-0	1000	± 0.224%
Fluorene	86-73-7	1000	± 0.224%
Hexachlorobenzene	118-74-1	1000	± 0.152%
Hexachlorobutadiene	87-68-3	1000	± 0.746%
Hexachlorocyclopentadiene	77-47-4	1000	± 0.153%
Hexachloroethane	67-72-1	1000	± 0.300%
Indeno(1,2,3-cd)pyrene	193-39-5	1000	± 0.883%
Isophorone	78-59-1	1000	± 0.145%
2-Methyl-4,6-dinitrophenol	534-52-1	1000	± 0.508%
1-Methylnaphthalene	90-12-0	1000	± 0.479%
2-Methylnaphthalene	91-57-6	1000	± 0.487%
2-Methylphenol	95-48-7	1000	± 0.545%
3-Methylphenol	108-39-4	500	± 0.279%
4-Methylphenol	106-44-5	500	± 0.399%
Naphthalene	91-20-3	1000	± 0.226%
2-Nitroaniline	88-74-4	1000	± 0.224%
3-Nitroaniline	99-09-2	1000	± 0.235%
4-Nitroaniline	100-01-6	1000	± 0.300%
Nitrobenzene	98-95-3	1000	± 0.300%

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Certified Reference Material

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Catalog No.: AL0-101444
Lot Number: CL18355
Description: 8270 Calibration Standard
Certification Date: July 25, 2022
Storage: -18 °C
Expiration Date: August 31, 2023
Provided As: 1 mL in 2 mL Ampoule in MeCl2/Methanol (97:3)

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
2-Nitrophenol	88-75-5	1000	± 0.514%
4-Nitrophenol	100-02-7	1000	± 0.519%
N-Nitrosodimethylamine	62-75-9	1000	± 0.503%
N-Nitrosodiphenylamine	86-30-6	1000	± 0.476%
N-Nitrosodi-n-propylamine	621-64-7	1000	± 0.461%
Pentachlorophenol	87-86-5	1000	± 0.202%
Phenanthrene	85-01-8	1000	± 0.145%
Phenol	108-95-2	1000	± 0.545%
Pyrene	129-00-0	1000	± 0.147%
Pyridine	110-86-1	1000	± 0.503%
2,3,4,6-Tetrachlorophenol	58-90-2	1000	± 0.247%
2,3,5,6-Tetrachlorophenol	935-95-5	1000	± 0.247%
1,2,4-Trichlorobenzene	120-82-1	1000	± 0.224%
2,4,5-Trichlorophenol	95-95-4	1000	± 0.507%
2,4,6-Trichlorophenol	88-06-2	1000	± 0.509%

Notes: The proper chemical name for Bis(2-Chloroiospropyl) ether is 2,2'-oxybis(1-chloropropane). The analytical uncertainty contribution to the expanded uncertainty for 3 and 4-Methylphenol is measured as the total of the two analytes. N-Nitrosodiphenylamine presents as Diphenylamine at 854 µg/mL.

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-01 B	File ID:	01092336ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 21:22
% Solids:	64.46	Preparation:	EPA 3546 (Microwave)	Initial/Final:	1943 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	0.4	0.2	0.4	U
11104-28-2	Aroclor 1221	1	10	0.4	0.2	0.4	U
11141-16-5	Aroclor 1232	1	10	0.4	0.2	0.4	U
53469-21-9	Aroclor 1242	1	10	0.4	0.2	0.4	U
12672-29-6	Aroclor 1248	1	10	15.8	0.2	0.4	D
11097-69-1	Aroclor 1254	1	10	14.8	0.2	0.4	D
11096-82-5	Aroclor 1260	2	10	4.5	0.06	0.4	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*0.079843*	*0.122*	*153*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*0.079843*	*0.0719*	*90.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*0.079843*	*0.112*	*140*	*40 - 126*	*
Tetrachlorometaxylene	*2*	*0.079843*	*0.0834*	*104*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092336ECD7.D
Data file 2: /230109.b/230109.b/01092336ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-01
Client ID:
Injection Date: 09-JAN-2023 21:22
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.007	26324	5.705	-0.008	17780	4.1	4.2	2.4	Tetrachloro-m-xylene
13.897	-0.011	34750	14.117	-0.019	34183	6.1	5.6	9.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	455185	1.7
Hexabromobiphenyl	798898	617912	-22.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	310418	24.6
Hexabromobiphenyl	362541	430488	18.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.413	-0.015	132984	679.5	1	8.314	-0.012	390970	3083.0
Aroclor-1248	2	8.577	-0.027	204161	817.0	2	8.717	-0.016	120203	901.2
Aroclor-1248	3	9.000	-0.022	392415	873.0	3	9.152	-0.025	90531	558.0
Aroclor-1248	4	9.299	-0.012	254738	1156.7	4	9.630	0.027	26032	136.7
	Total Col1Ave (4 peaks):				881.5	Total Col2Ave (4 peaks):				1169.7 RPD = 28
	Corrected Ave (3 peaks):				789.8	Corrected Ave (3 peaks):				532.0 RPD = 39
Aroclor-1254	1	9.299	-0.022	254738	635.6	1	9.450	-0.017	126653	632.8
Aroclor-1254	2	9.376	-0.026	115365	740.2	2	9.967	-0.019	66013	410.3
Aroclor-1254	3	9.666	-0.028	114761	453.4	3	10.116	-0.023	277831	803.3
Aroclor-1254	4	9.801	-0.030	394745	800.0	4	10.364	-0.026	272712	761.3
Aroclor-1254	5	10.136	-0.053	362945	1073.1	5	10.565	-0.021	134120	776.3
	Total Col1Ave (5 peaks):				740.5	Total Col2Ave (5 peaks):				676.8 RPD = 9
	Corrected Ave (4 peaks):				657.3	Corrected Ave (4 peaks):				645.2 RPD = 2
Aroclor-1260	1	11.046	-0.017	46180	205.3	1	11.654	-0.015	65973	290.3
Aroclor-1260	2	11.360	-0.017	33951	145.9	2	11.913	-0.019	88326	154.9
Aroclor-1260	3	11.730	-0.022	87897	143.8	3	12.429	-0.023	42822	282.0
Aroclor-1260	4	12.132	-0.027	83136	267.1	4	12.498	-0.018	68423	180.0
Aroclor-1260	5	12.248	-0.014	30764	241.4	NS	---			----
	Total Col1Ave (5 peaks):				200.7	Total Col2Ave (4 peaks):				226.8 RPD = 12
	Corrected Ave (4 peaks):				184.1	Corrected Ave (3 peaks):				205.6 RPD = 11
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 7505598 Col1 Total PCB = 1.7 ppm*

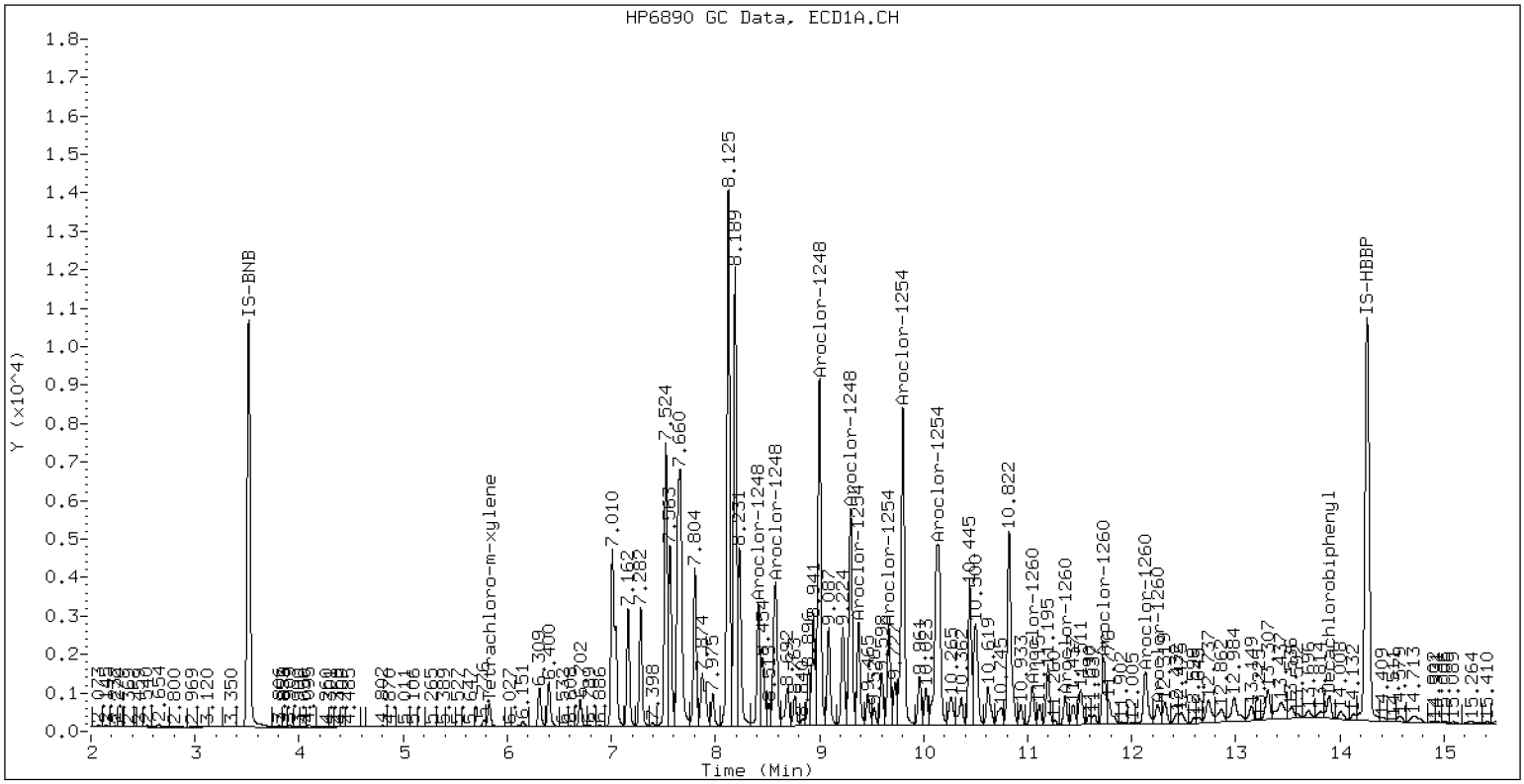
Total PCB Area Col2 (5.813 - 14.037) = 5316546 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

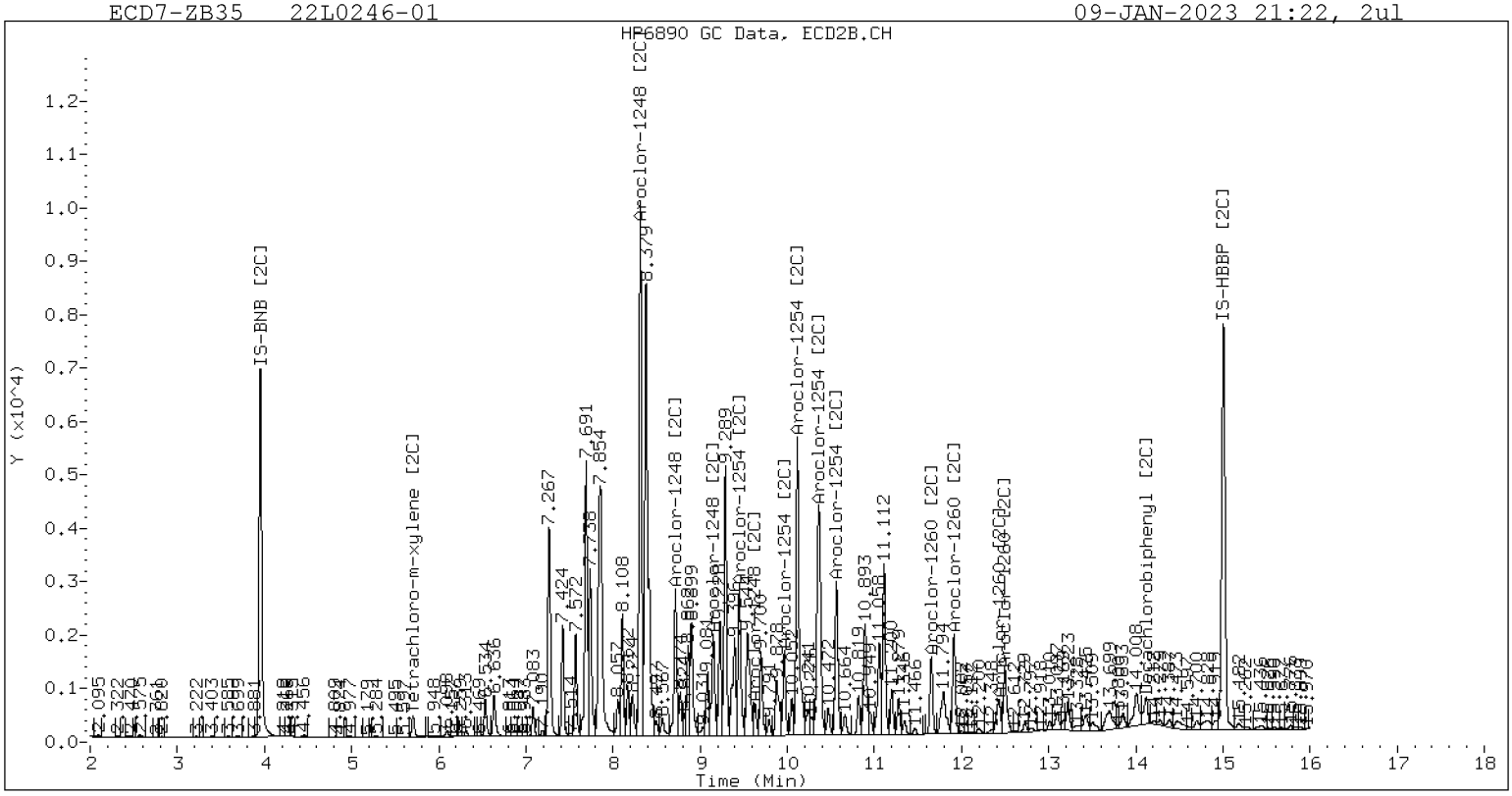
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-01 09-JAN-2023 21:22, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-01 09-JAN-2023 21:22, 2ul

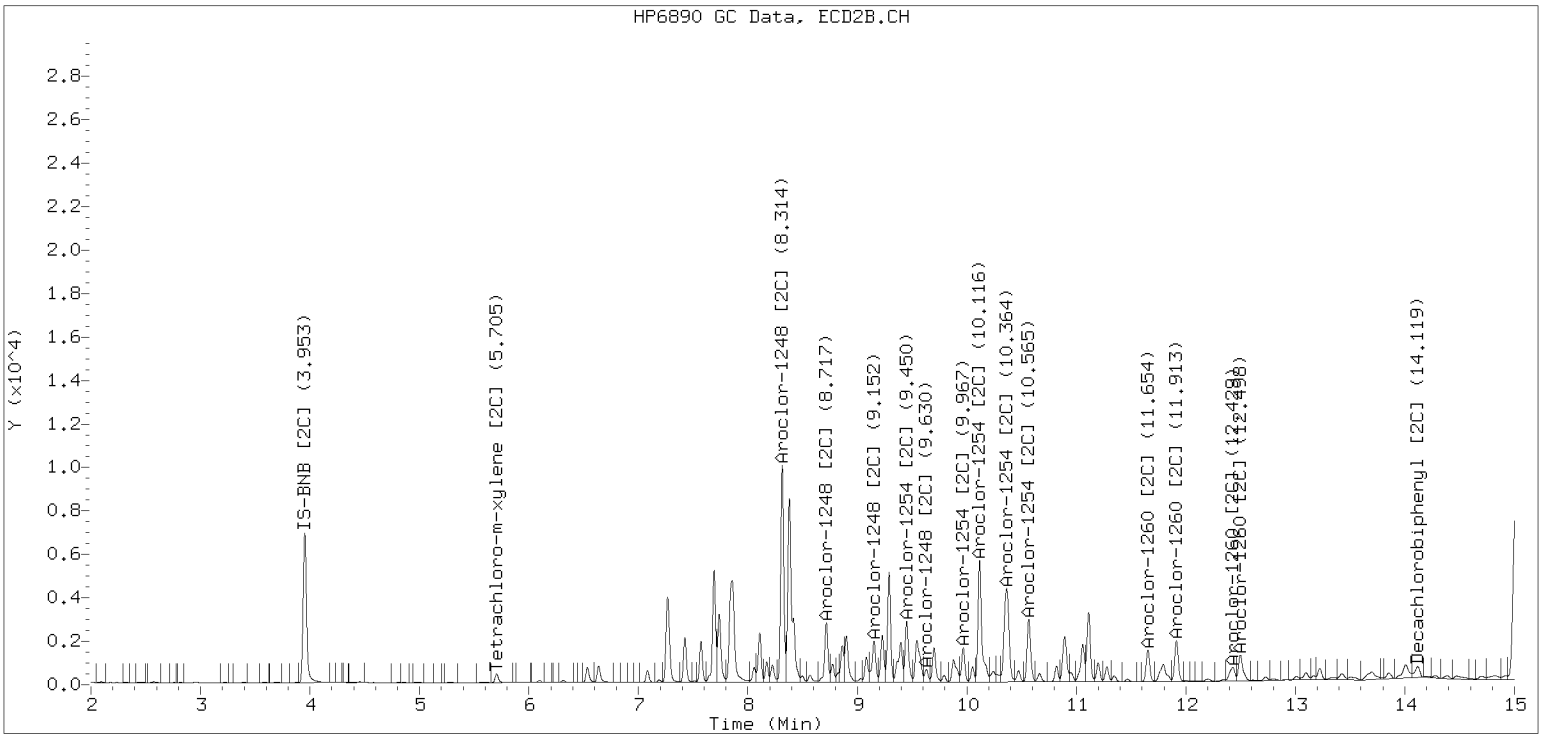


ZB-35 Manual Integration: YES

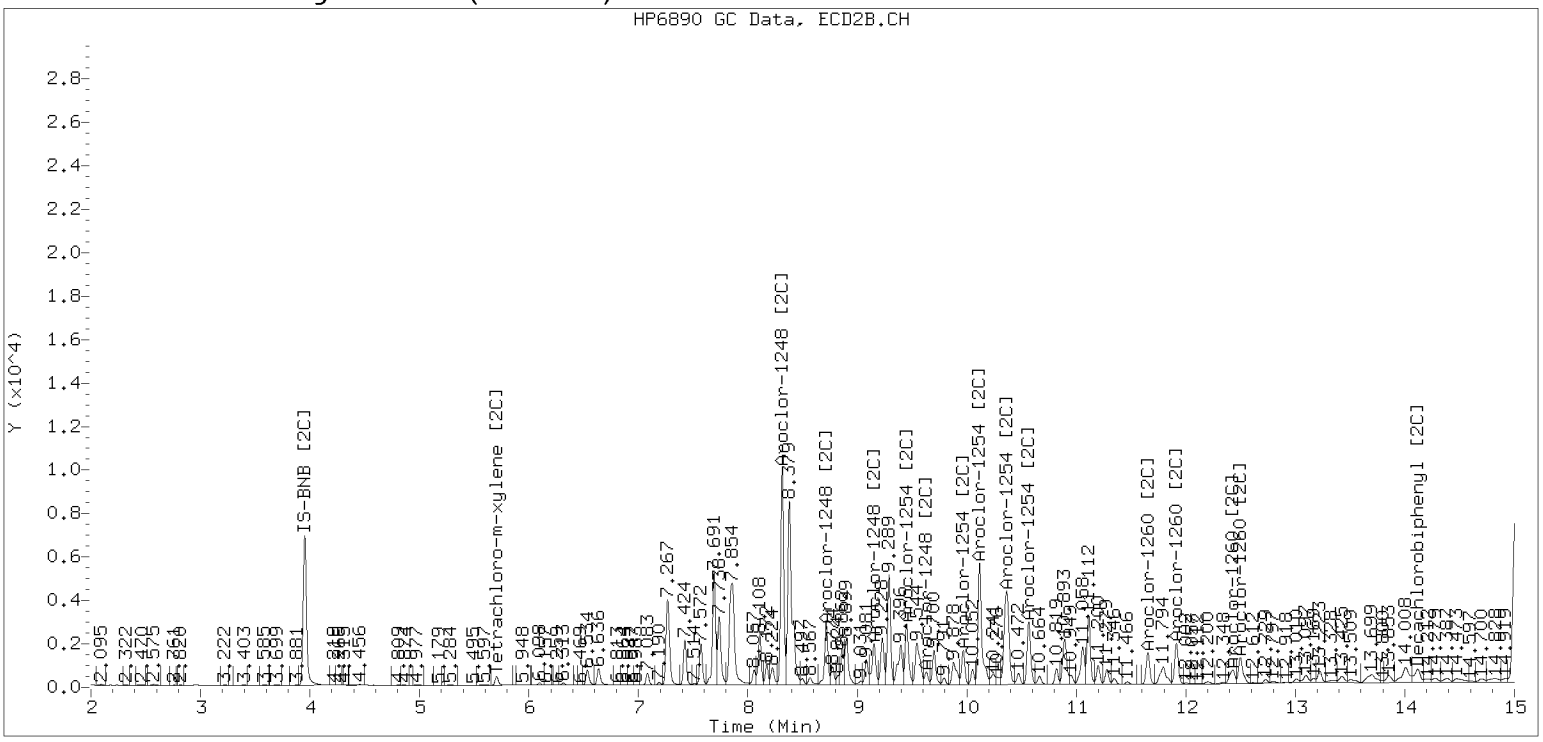
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230109.b/230109.b/01092336ECD7.D Injection Date: 09-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092349ECD7.D
Data file 2: /230109.b/230109.b/01092349ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-01
Client ID:
Injection Date: 10-JAN-2023 01:56
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.008	23584	5.706	-0.008	15851	3.6	3.7	2.3	Tetrachloro-m-xylene
13.897	-0.011	55495	14.119	-0.018	45646	8.0	6.7	18.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	462154	3.2
Hexabromobiphenyl	798898	754207	-5.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313716	25.9
Hexabromobiphenyl	362541	481245	32.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	4.982	-0.007	388	25.4
Aroclor-1232	2	---			0.0	2	7.267	-0.010	160892	2065.2
Aroclor-1232	3	---			0.0	3	7.855	-0.021	275625	1809.7
Aroclor-1232	4	---			0.0	4	8.718	-0.016	105451	2553.6
	Col1Ave: <3 Quant Peaks					Col2Ave: 1613.5				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.413	-0.014	119018	599.0	1	8.314	-0.012	340076	2653.5
Aroclor-1248	2	8.579	-0.025	182982	721.2	2	8.718	-0.015	105451	782.3
Aroclor-1248	3	9.000	-0.022	349055	764.8	3	9.154	-0.024	78951	481.5
Aroclor-1248	4	9.300	-0.011	228448	1021.7	4	9.631	0.029	23166	120.4
	Total Col1Ave (4 peaks):				776.7	Total Col2Ave (4 peaks):				1009.4 RPD = 26
	Corrected Ave (3 peaks):				695.0	Corrected Ave (3 peaks):				461.4 RPD = 40*
Aroclor-1254	1	9.300	-0.021	228448	561.4	1	9.451	-0.016	112374	555.6
Aroclor-1254	2	9.377	-0.025	104338	659.3	2	9.969	-0.018	59313	364.7
Aroclor-1254	3	9.668	-0.026	102309	398.1	3	10.117	-0.022	247475	708.0
Aroclor-1254	4	9.803	-0.028	360005	718.6	4	10.365	-0.025	244425	675.2
Aroclor-1254	5	10.132	-0.057	336965	981.2	5	10.566	-0.020	120849	692.2
	Total Col1Ave (5 peaks):				663.7	Total Col2Ave (5 peaks):				599.1 RPD = 10
	Corrected Ave (4 peaks):				584.4	Corrected Ave (4 peaks):				571.9 RPD = 2
Aroclor-1260	1	11.046	-0.016	45506	165.8	1	11.655	-0.014	59818	235.5
Aroclor-1260	2	11.361	-0.016	33237	117.1	2	11.916	-0.017	81010	127.1
Aroclor-1260	3	11.731	-0.021	87523	117.3	3	12.435	-0.017	22891	134.9
Aroclor-1260	4	12.132	-0.026	81639	214.9	4	12.499	-0.018	63013	148.3
Aroclor-1260	5	12.250	-0.012	30437	195.7	NS	---			----
	Total Col1Ave (5 peaks):				162.1	Total Col2Ave (4 peaks):				161.4 RPD = 0
	Corrected Ave (4 peaks):				149.0	Corrected Ave (3 peaks):				136.7 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 6938801 Col1 Total PCB = 1.6 ppm*

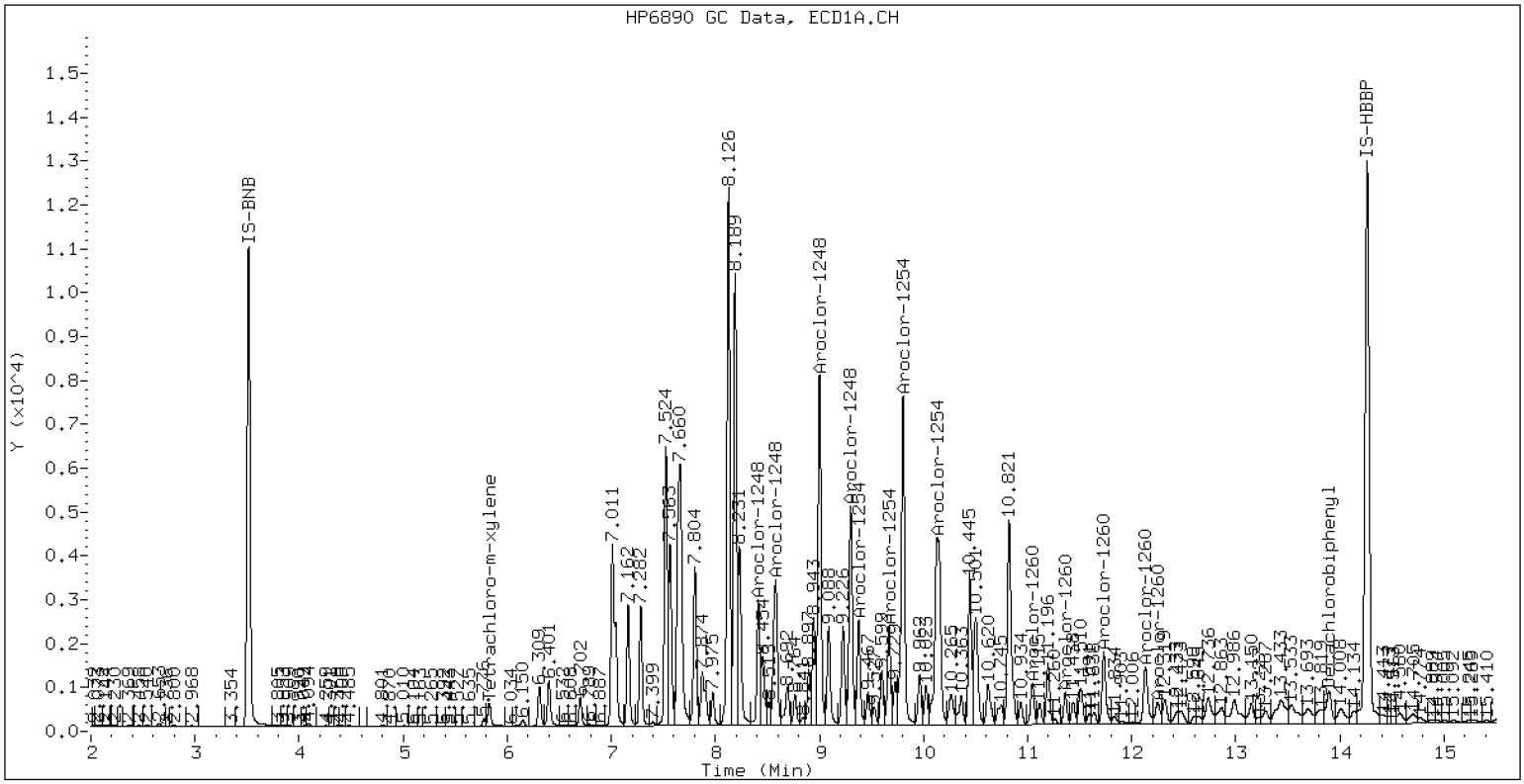
Total PCB Area Col2 (5.813 - 14.037) = 4725087 Col2 Total PCB = 1.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

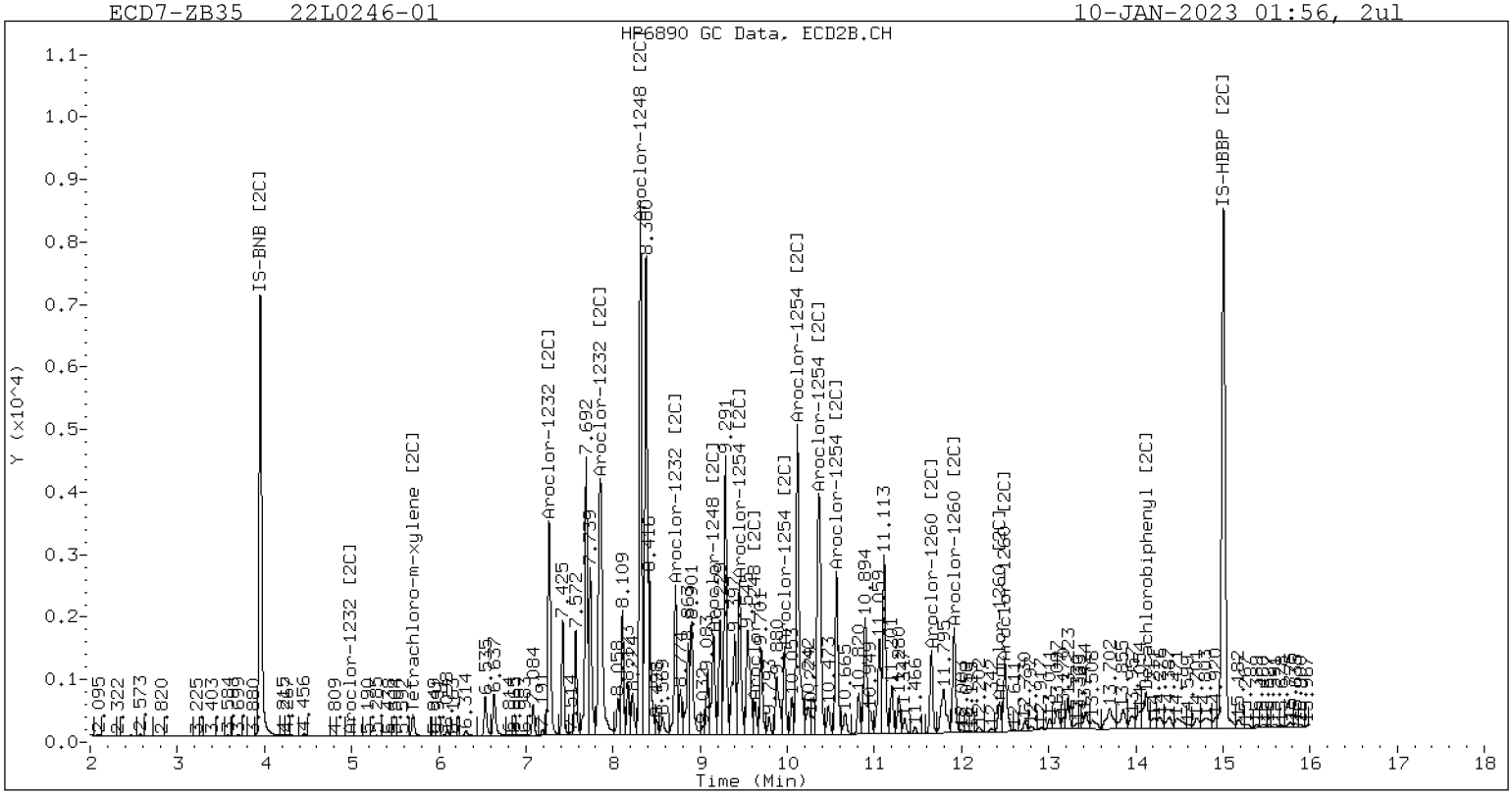
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-01 10-JAN-2023 01:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-01 10-JAN-2023 01:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-02 B	File ID:	01092351ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:38
% Solids:	65.15	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.21 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	771	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	830	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	353	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9902*	*10.9*	*136*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9902*	*6.15*	*77.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9902*	*11.3*	*142*	*40 - 126*	*
Tetrachlorometaxylene	*2*	*7.9902*	*7.65*	*95.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092351ECD7.D
Data file 2: /230109.b/230109.b/01092351ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-02
Client ID:
Injection Date: 10-JAN-2023 02:38
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.010	40039	5.703	-0.011	30705	6.2	7.7	21.7	Tetrachloro-m-xylene
13.894	-0.013	60280	14.120	-0.017	68457	10.9	11.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458649	2.5
Hexabromobiphenyl	798898	602788	-24.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	292326	17.4
Hexabromobiphenyl	362541	424764	17.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.016	107585	545.6	1	8.313	-0.014	208684	1747.4
Aroclor-1248	2	8.577	-0.027	124779	495.6	2	8.717	-0.015	87161	693.9
Aroclor-1248	3	8.998	-0.024	297426	656.6	3	9.150	-0.027	83393	545.8
Aroclor-1248	4	9.299	-0.012	268627	1210.6	4	9.629	0.027	18141	101.1
	Total Col1Ave (4 peaks):				727.1	Total Col2Ave (4 peaks):				772.1 RPD = 6
	Corrected Ave (3 peaks):				565.9	Corrected Ave (3 peaks):				447.0 RPD = 23
Aroclor-1254	1	9.299	-0.022	268627	665.2	1	9.449	-0.018	148870	789.9
Aroclor-1254	2	9.375	-0.027	116092	739.2	2	9.967	-0.020	76615	505.6
Aroclor-1254	3	9.666	-0.028	143443	562.4	3	10.115	-0.024	286848	880.7
Aroclor-1254	4	9.799	-0.031	392492	789.5	4	10.358	-0.031	311811	924.4
Aroclor-1254	5	10.138	-0.051	411086	1206.2	5	10.564	-0.022	171289	1052.8
	Total Col1Ave (5 peaks):				792.5	Total Col2Ave (5 peaks):				830.7 RPD = 5
	Corrected Ave (4 peaks):				689.1	Corrected Ave (4 peaks):				775.1 RPD = 12
Aroclor-1260	1	11.044	-0.018	81325	370.6	1	11.653	-0.016	102083	455.3
Aroclor-1260	2	11.358	-0.019	63506	279.8	2	11.913	-0.020	164247	291.9
Aroclor-1260	3	11.728	-0.023	164198	275.4	3	12.433	-0.019	52483	350.3
Aroclor-1260	4	12.129	-0.029	113830	374.9	4	12.497	-0.020	118614	316.3
Aroclor-1260	5	12.245	-0.016	50247	404.2	NS	---			----
	Total Col1Ave (5 peaks):				341.0	Total Col2Ave (4 peaks):				353.4 RPD = 4
	Corrected Ave (4 peaks):				325.2	Corrected Ave (3 peaks):				319.5 RPD = 2
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 6433181 Col1 Total PCB = 1.5 ppm*

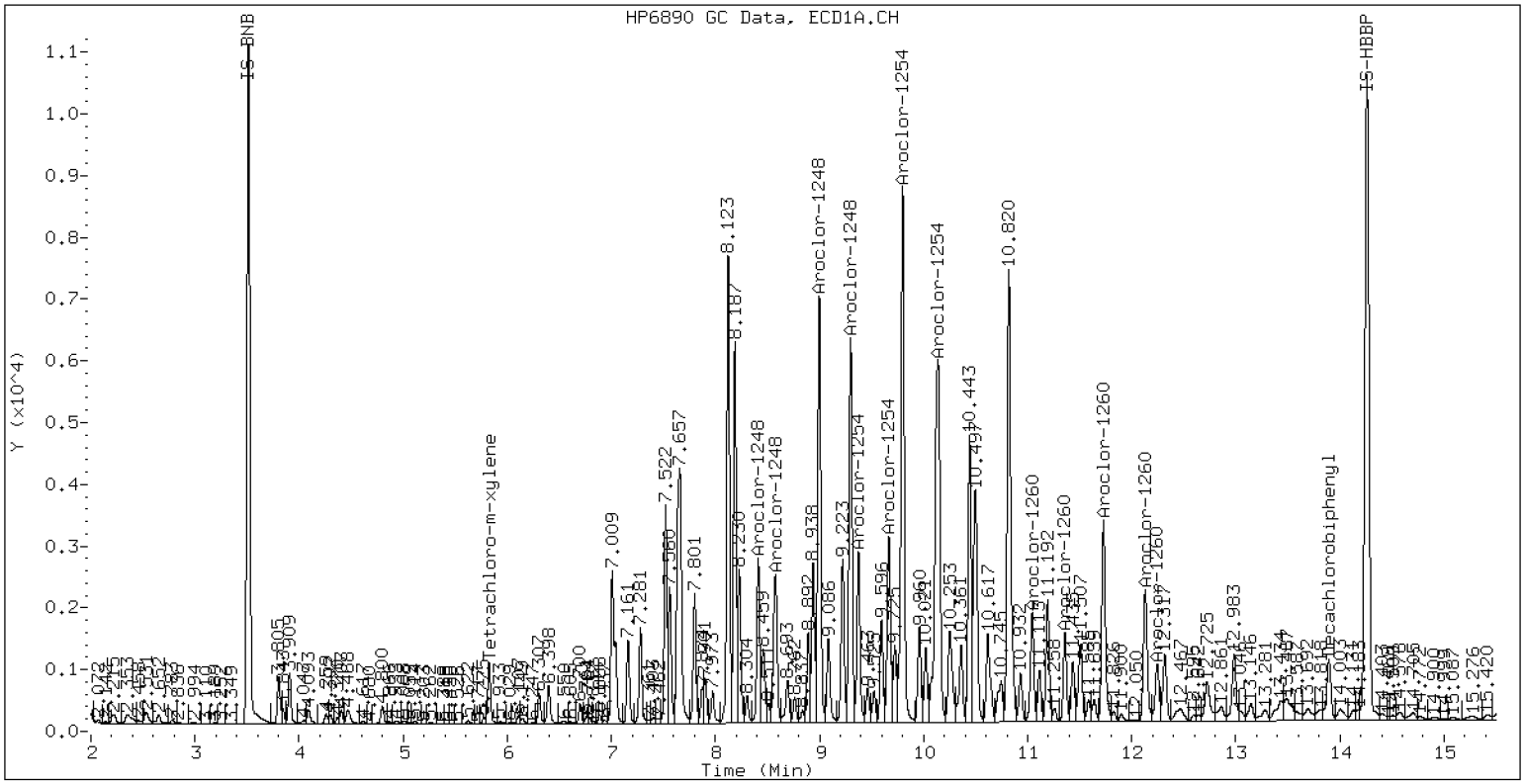
Total PCB Area Col2 (5.813 - 14.037) = 4699328 Col2 Total PCB = 1.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

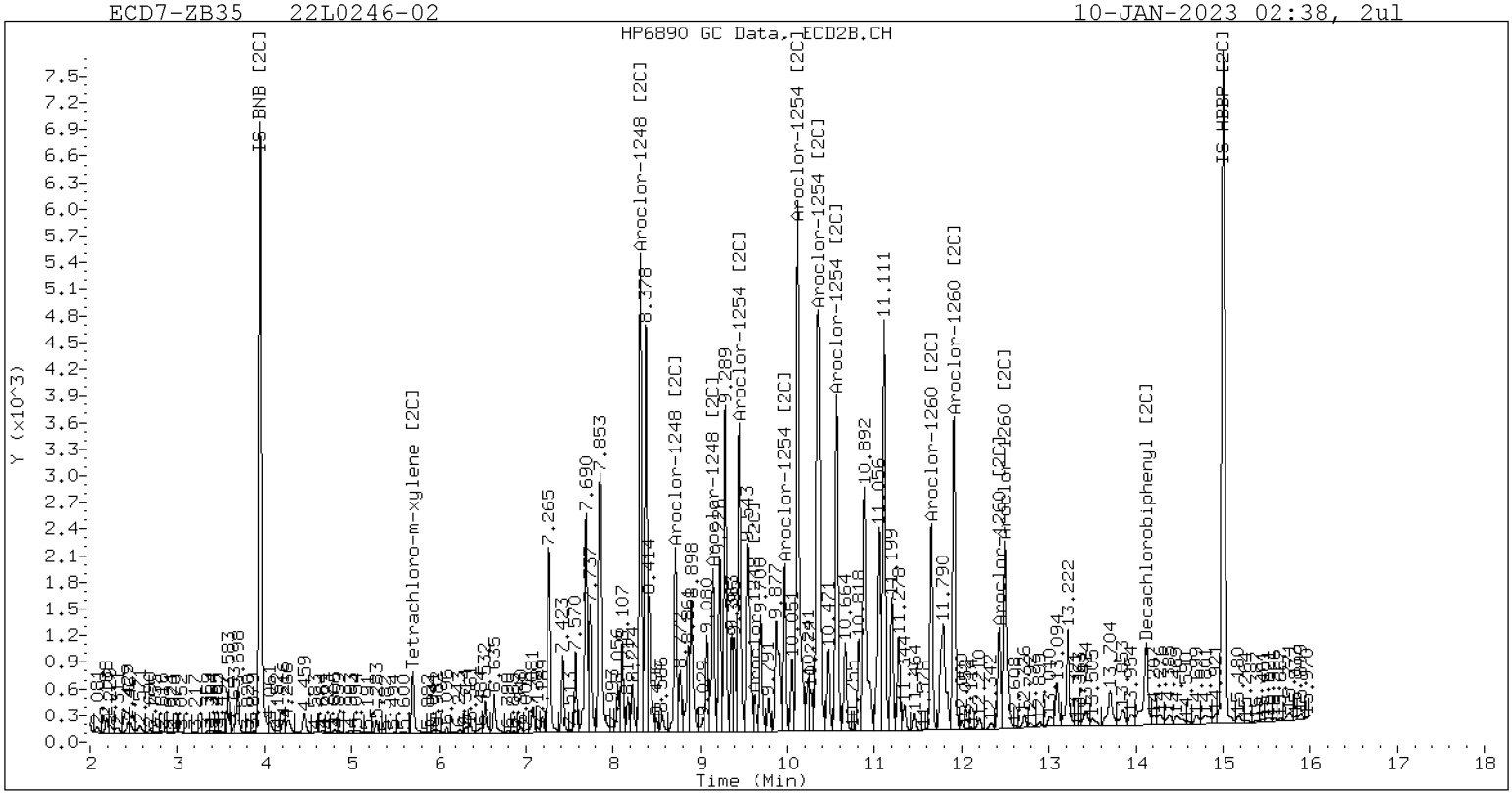
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-02 10-JAN-2023 02:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-02 10-JAN-2023 02:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778C-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-03 B	File ID:	01092352ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:59
% Solids:	64.55	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.37 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	761	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	857	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	353	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9979*	*11.7*	*146*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9979*	*6.23*	*77.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9979*	*9.61*	*120*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9979*	*8.03*	*100*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092352ECD7.D
Data file 2: /230109.b/230109.b/01092352ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-03
Client ID:
Injection Date: 10-JAN-2023 02:59
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.010	41546	5.703	-0.011	32762	6.2	8.0	25.2	Tetrachloro-m-xylene
13.896	-0.012	64147	14.119	-0.018	57872	11.7	9.6	19.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470552	5.1
Hexabromobiphenyl	798898	598472	-25.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297703	19.5
Hexabromobiphenyl	362541	423977	16.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	7.265	-0.012	115569	917.2
Aroclor-1242	2	---			0.0	2	7.853	-0.022	210476	786.9
Aroclor-1242	3	---			0.0	3	9.150	-0.028	93091	1078.8
Aroclor-1242	4	---			0.0	4	9.629	0.023	19064	183.8
		Col1Ave: <3 Quant Peaks					Col2Ave:	741.7		
Aroclor-1248	1	8.411	-0.017	118324	584.8	1	8.313	-0.014	227595	1871.4
Aroclor-1248	2	8.577	-0.027	135863	526.0	2	8.717	-0.015	96806	756.8
Aroclor-1248	3	8.997	-0.026	324728	698.8	3	9.150	-0.028	93091	598.3
Aroclor-1248	4	9.298	-0.013	281009	1234.3	4	9.629	0.026	19064	104.4
		Total Col1Ave (4 peaks):			761.0		Total Col2Ave (4 peaks):			832.7 RPD = 9
		Corrected Ave (3 peaks):			603.2		Corrected Ave (3 peaks):			486.5 RPD = 21
Aroclor-1254	1	9.298	-0.023	281009	678.3	1	9.449	-0.018	156006	812.8
Aroclor-1254	2	9.374	-0.028	122413	759.7	2	9.967	-0.020	80606	522.3
Aroclor-1254	3	9.665	-0.029	150645	575.7	3	10.115	-0.025	303174	914.0
Aroclor-1254	4	9.799	-0.032	415009	813.6	4	10.359	-0.030	330588	962.3
Aroclor-1254	5	10.138	-0.051	431298	1233.5	5	10.565	-0.022	178165	1075.3
		Total Col1Ave (5 peaks):			812.2		Total Col2Ave (5 peaks):			857.4 RPD = 5
		Corrected Ave (4 peaks):			706.8		Corrected Ave (4 peaks):			802.9 RPD = 13
Aroclor-1260	1	11.044	-0.018	79138	363.3	1	11.653	-0.016	106384	475.4
Aroclor-1260	2	11.359	-0.018	64680	287.1	2	11.914	-0.018	161399	287.4
Aroclor-1260	3	11.729	-0.023	172327	291.1	3	12.434	-0.018	50025	334.5
Aroclor-1260	4	12.130	-0.028	114261	379.0	4	12.497	-0.020	118363	316.2
Aroclor-1260	5	12.245	-0.016	47792	387.2	NS	---			----
		Total Col1Ave (5 peaks):			341.5		Total Col2Ave (4 peaks):			353.4 RPD = 3
		Corrected Ave (4 peaks):			330.1		Corrected Ave (3 peaks):			312.7 RPD = 5
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 6902643 Col1 Total PCB = 1.5 ppm*

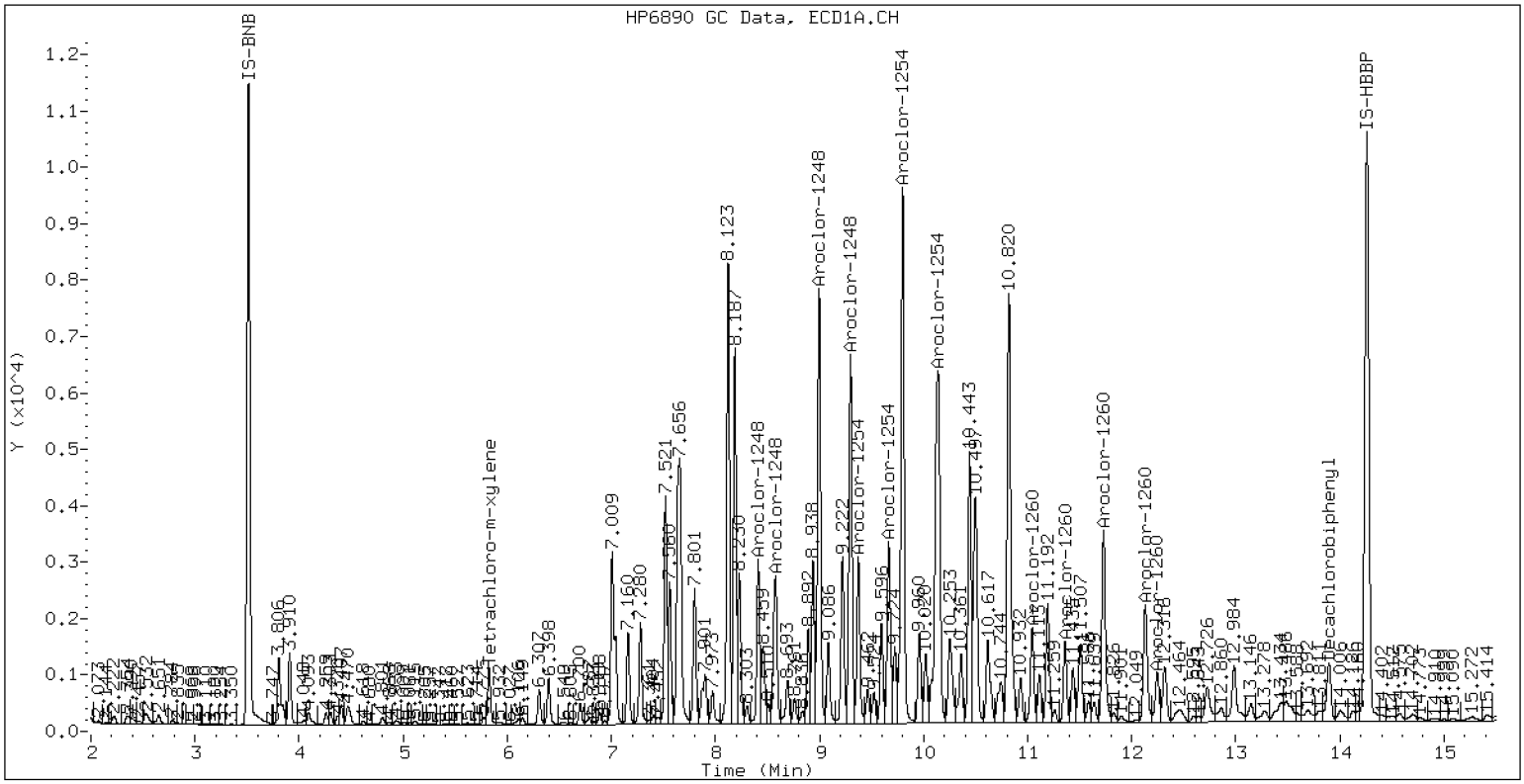
Total PCB Area Col2 (5.813 - 14.037) = 5022106 Col2 Total PCB = 1.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

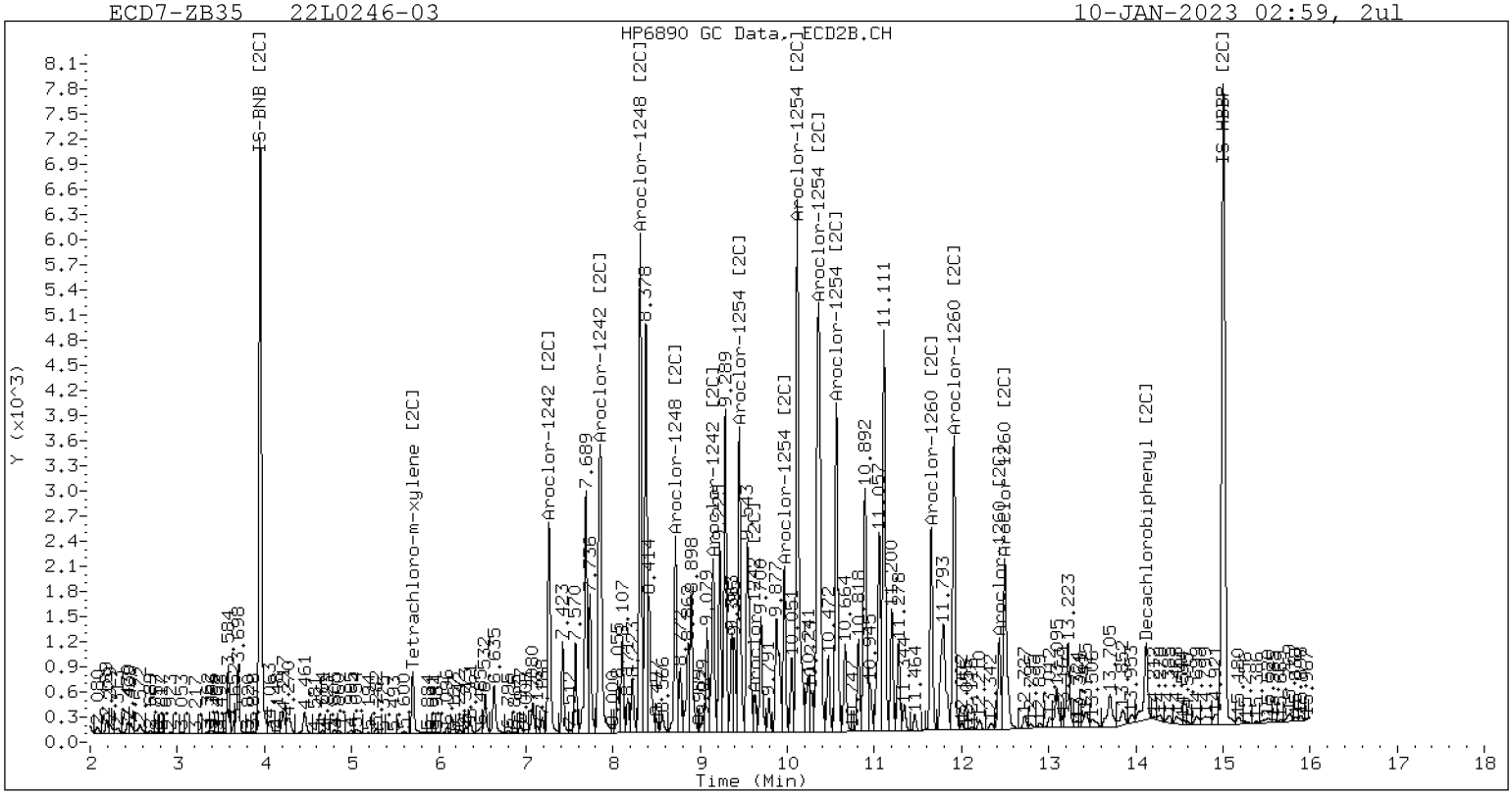
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-03 10-JAN-2023 02:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-03 10-JAN-2023 02:59, 2ul

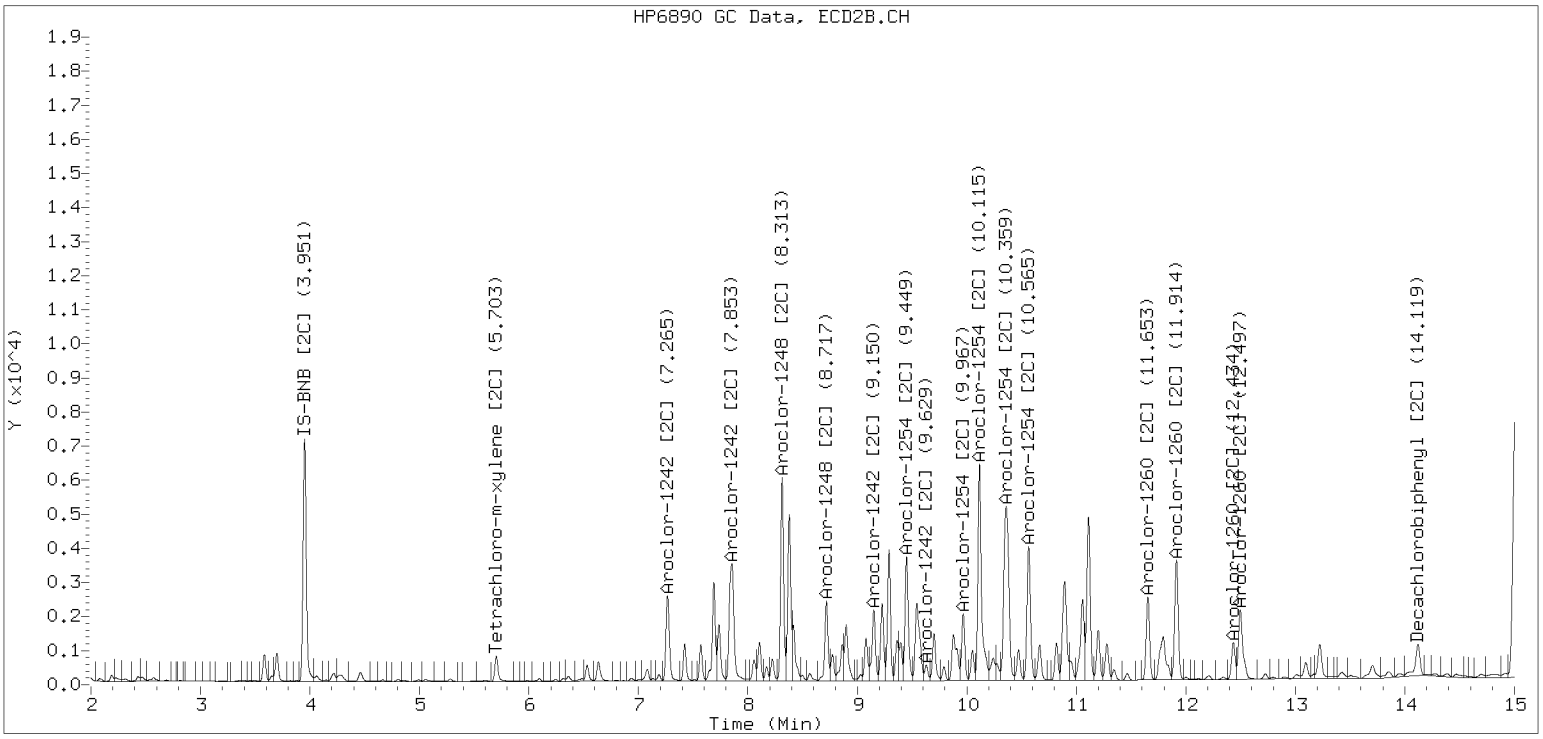


ZB-35 Manual Integration: YES

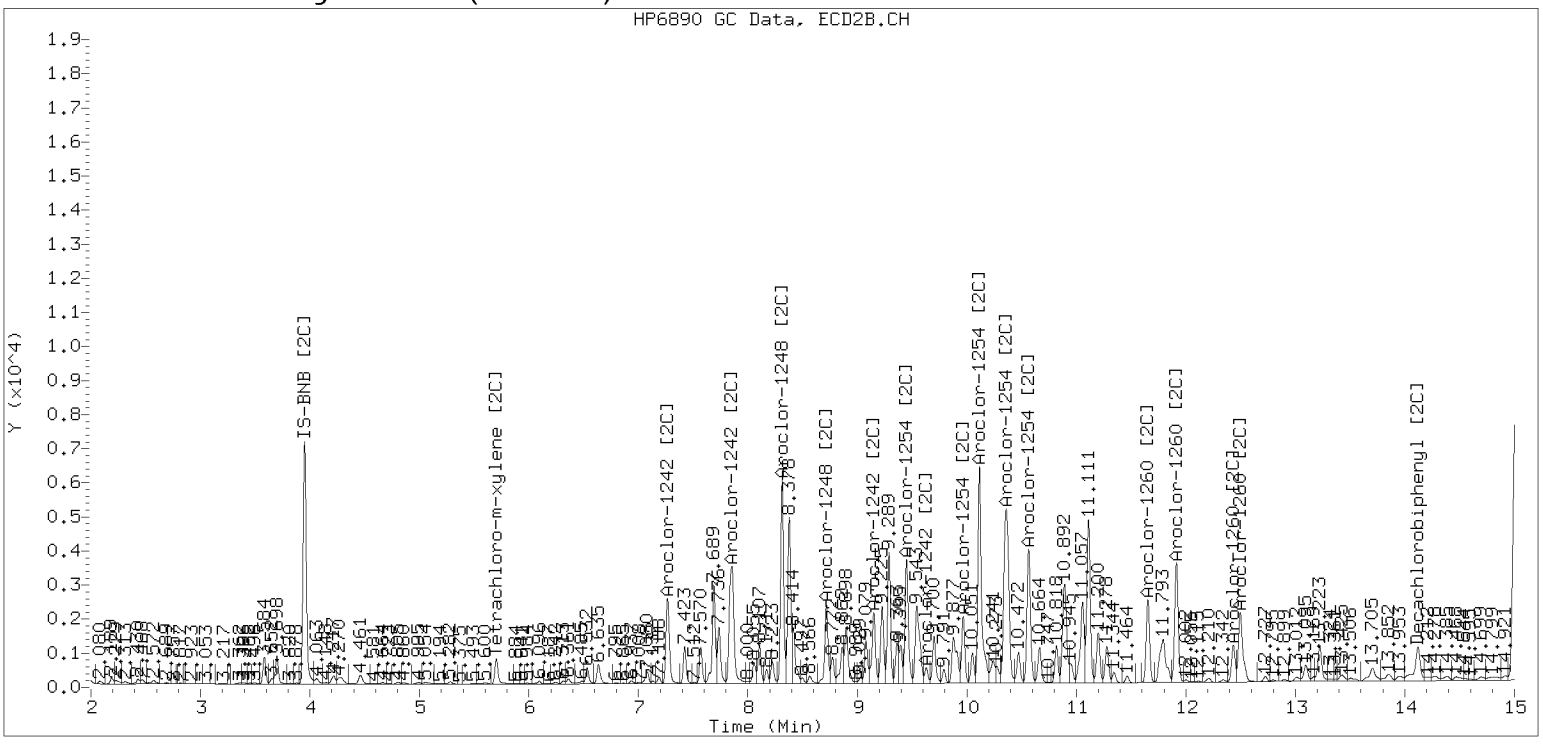
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230109.b/230109.b/01092352ECD7.D Injection Date: 10-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-04 B	File ID:	01092350ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:17
% Solids:	57.97	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.64 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	19.9	7.8	19.9	U
11104-28-2	Aroclor 1221	1	5	19.9	7.8	19.9	U
11141-16-5	Aroclor 1232	1	5	19.9	7.8	19.9	U
53469-21-9	Aroclor 1242	1	5	19.9	7.8	19.9	U
12672-29-6	Aroclor 1248	1	5	19.9	7.8	19.9	U
11097-69-1	Aroclor 1254	1	5	19.9	7.8	19.9	U
11096-82-5	Aroclor 1260	2	5	197	2.9	19.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9715*	*11.1*	*139*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9715*	*6.26*	*78.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9715*	*9.55*	*120*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9715*	*7.81*	*98.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092350ECD7.D
Data file 2: /230109.b/230109.b/01092350ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-04
Client ID:
Injection Date: 10-JAN-2023 02:17
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.011	41492	5.702	-0.012	32032	6.3	7.8	22.1	Tetrachloro-m-xylene
13.894	-0.014	58860	14.121	-0.016	56337	11.1	9.6	14.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466066	4.1
Hexabromobiphenyl	798898	577278	-27.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298049	19.7
Hexabromobiphenyl	362541	414077	14.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.411	-0.016	6522	32.5	1	---			0.0
Aroclor-1248	2	8.577	-0.027	8412	32.9	2	---			0.0
Aroclor-1248	3	8.998	-0.024	16539	35.9	3	---			0.0
Aroclor-1248	4	9.300	-0.011	17711	78.5	4	---			0.0
	Total Col1Ave (4 peaks):				45.0	Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.300	-0.021	17711	43.2	1	---			0.0
Aroclor-1254	2	9.374	-0.028	7649	47.9	2	---			0.0
Aroclor-1254	3	9.668	-0.026	8053	31.1	3	---			0.0
Aroclor-1254	4	9.799	-0.031	27548	54.5	4	---			0.0
Aroclor-1254	5	10.254	0.065	12359	35.7	5	---			0.0
	Total Col1Ave (5 peaks):				42.5	Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.043	-0.019	50861	242.0	1	11.652	-0.017	34644	158.5
Aroclor-1260	2	11.359	-0.019	37298	171.6	2	11.913	-0.020	96886	176.6
Aroclor-1260	3	11.729	-0.023	106337	186.2	3	12.432	-0.019	39394	269.7
Aroclor-1260	4	12.130	-0.029	46507	159.9	4	12.496	-0.020	68151	186.4
Aroclor-1260	5	12.243	-0.018	38700	325.1	NS	---			----
	Total Col1Ave (5 peaks):				217.0	Total Col2Ave (4 peaks):			197.8	RPD = 9
	Corrected Ave (4 peaks):				190.0	Corrected Ave (3 peaks):			173.8	RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 1102212 Col1 Total PCB = 0.2 ppm*

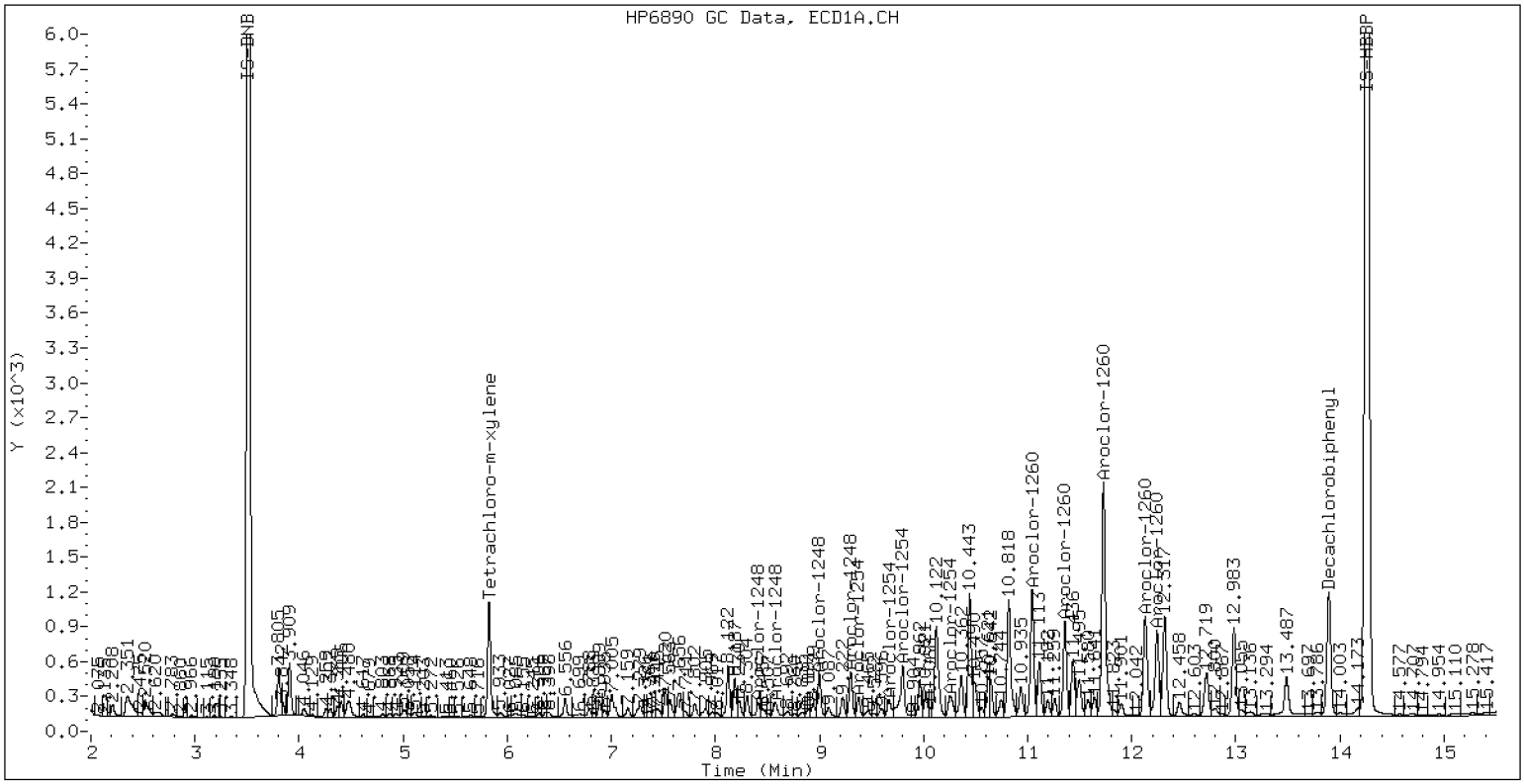
Total PCB Area Col2 (5.813 - 14.037) = 859655 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

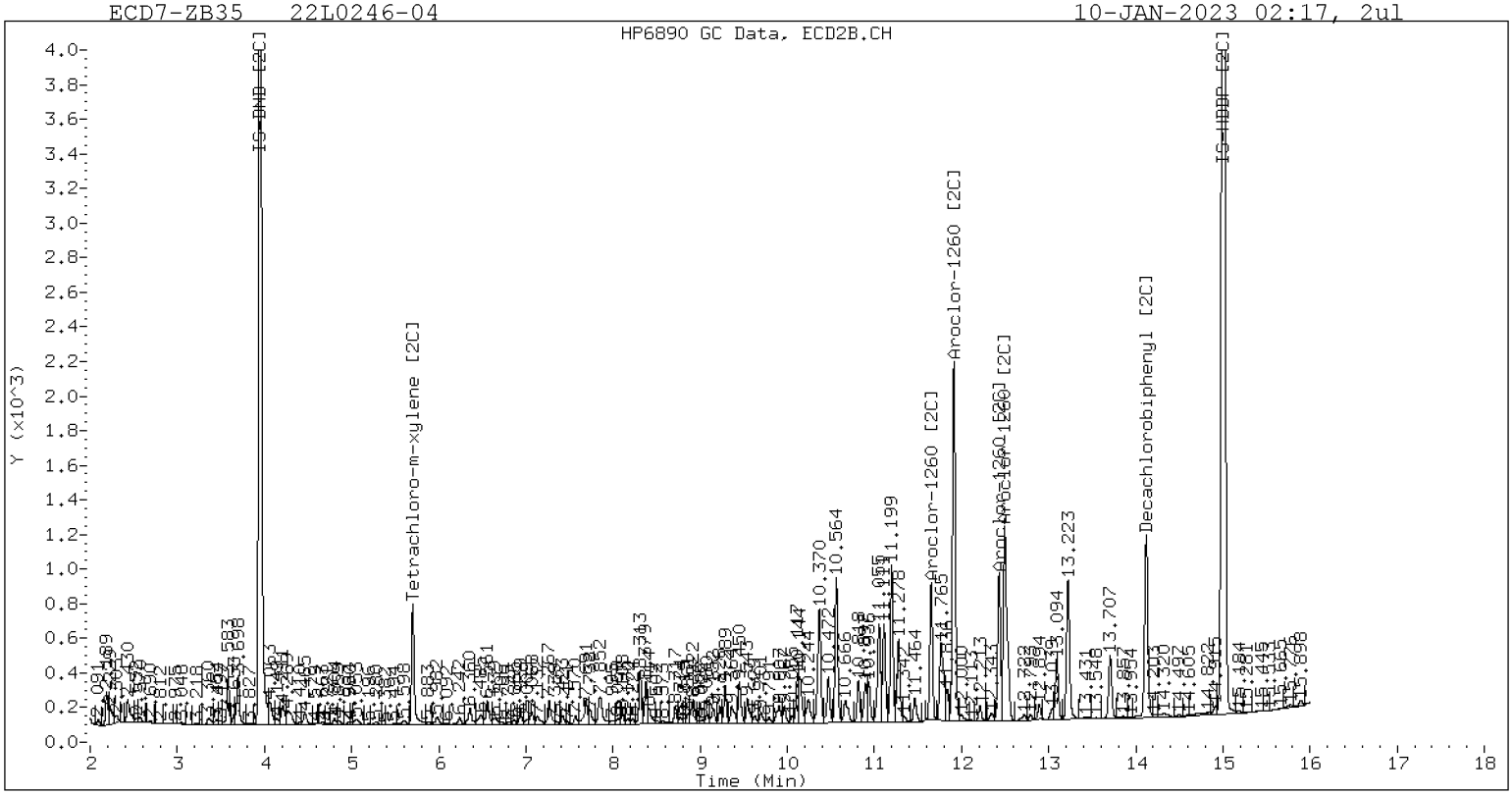
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-04 10-JAN-2023 02:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-04 10-JAN-2023 02:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-05 B	File ID:	01042369ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 09:18
% Solids:	58.19	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.48 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	2	1	115	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0005*	*9.96*	*125*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0005*	*4.15*	*51.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0005*	*9.10*	*114*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0005*	*6.07*	*75.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042369ECD7.D
Data file 2: /230104.b/230104.b/01042369ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-05
Client ID:
Injection Date: 05-JAN-2023 09:18
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	159894	5.702	-0.005	123685	20.7	30.4	37.7	Tetrachloro-m-xylene
13.895	-0.006	181672	14.122	-0.006	207321	49.8	45.5	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	544311	21.6
Hexabromobiphenyl	798898	397966	-50.2 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297140	19.3
Hexabromobiphenyl	362541	321024	-11.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.042	-0.013	111595	770.4	1	11.651	-0.010	74833	441.6
Aroclor-1260	2	11.357	-0.015	77586	517.8	2	11.913	-0.010	227533	535.1
Aroclor-1260	3	11.727	-0.019	212701	540.3	3	12.431	-0.011	98364	868.7
Aroclor-1260	4	12.128	-0.022	91036	454.1	4	12.496	-0.011	129922	458.4
Aroclor-1260	5	12.243	-0.011	83552	1018.1	NS	---			----
		Total Col1Ave (5 peaks):			660.1	Total Col2Ave (4 peaks):				575.9 RPD = 14
		Corrected Ave (4 peaks):			570.7	Corrected Ave (3 peaks):				478.4 RPD = 18
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 13084248 Col1 Total PCB = 2.5 ppm*

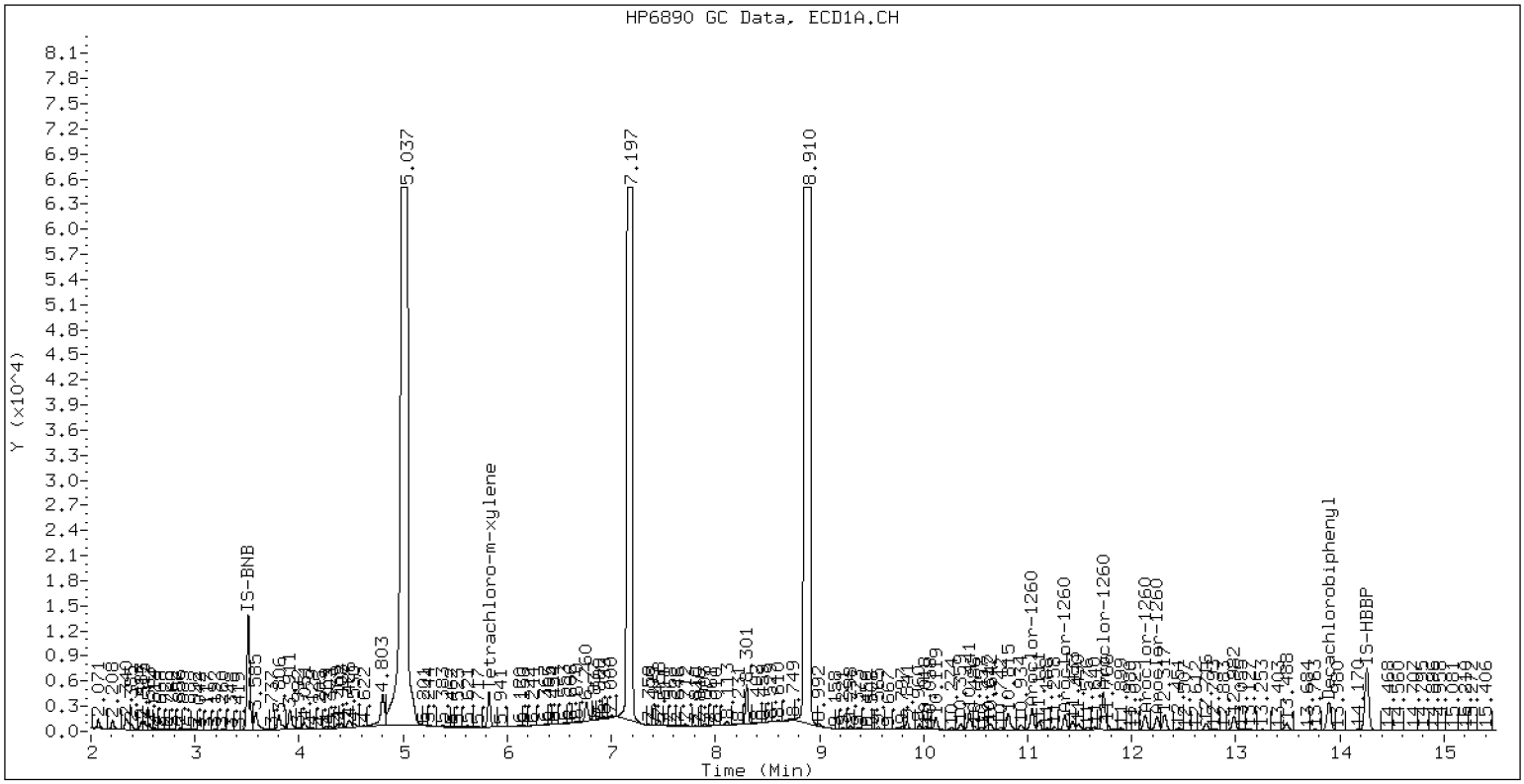
Total PCB Area Col2 (5.807 - 14.028) = 13509636 Col2 Total PCB = 4.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

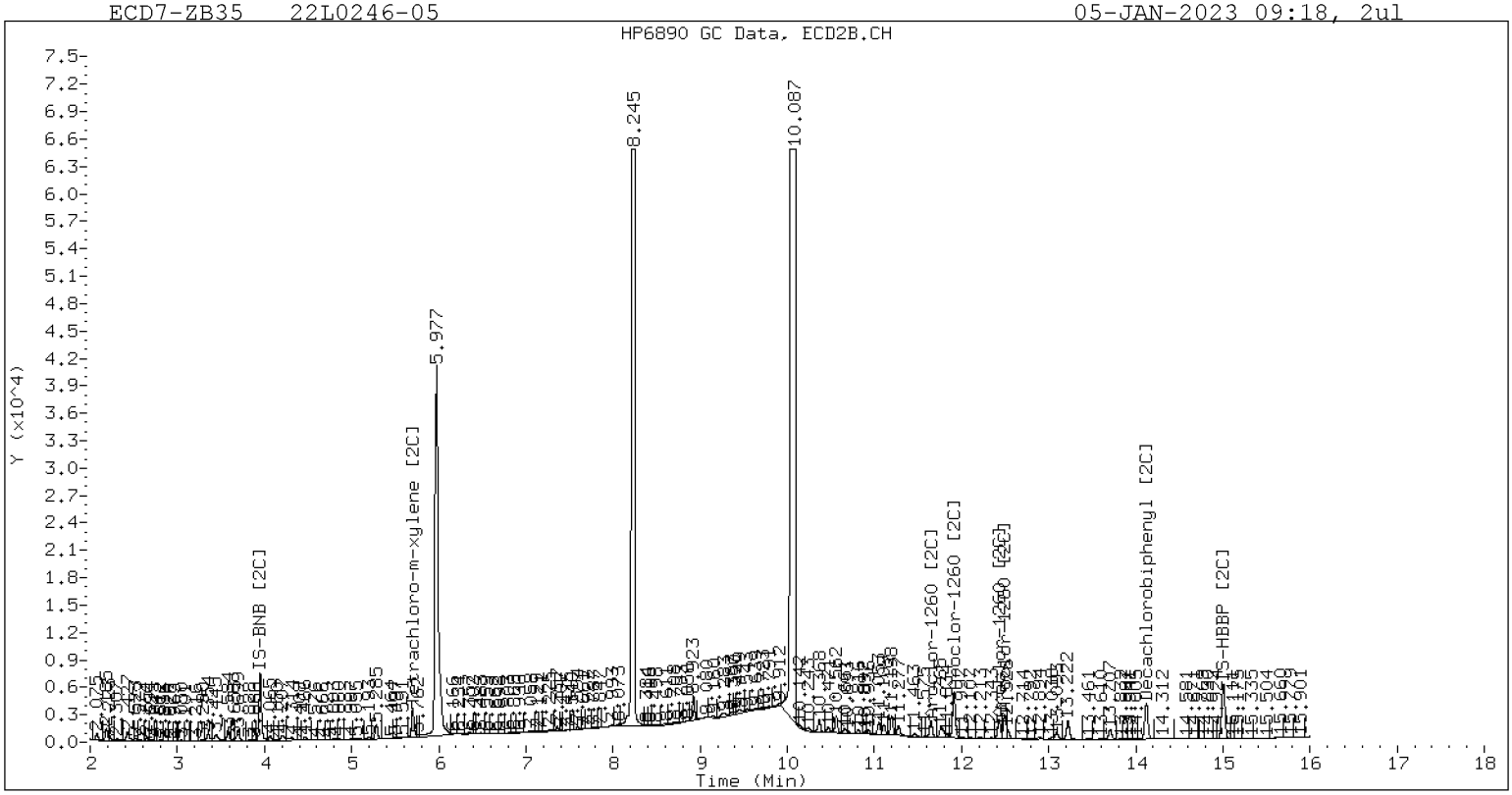
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-05 05-JAN-2023 09:18, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-05 05-JAN-2023 09:18, 2ul

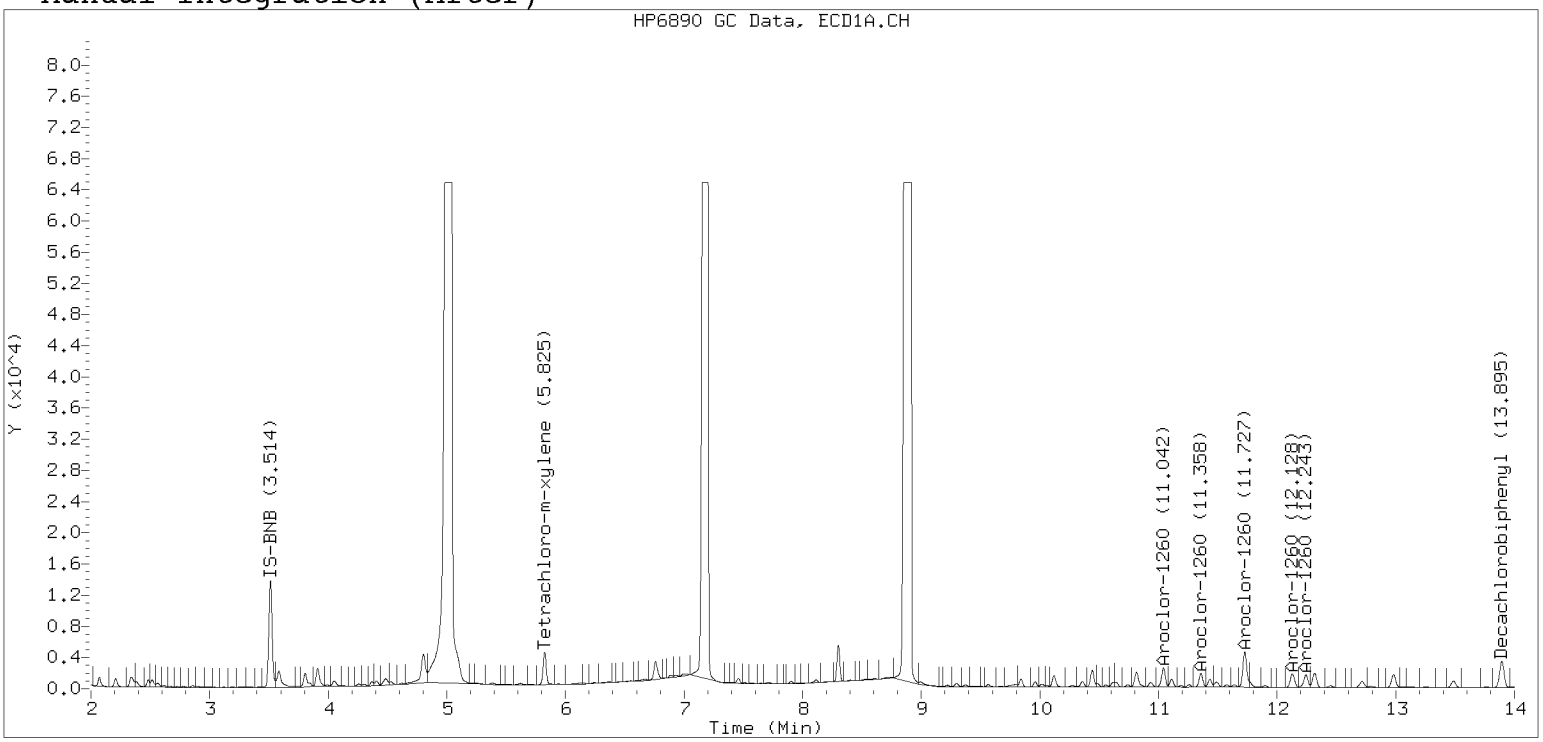


ZB-35 Manual Integration: YES

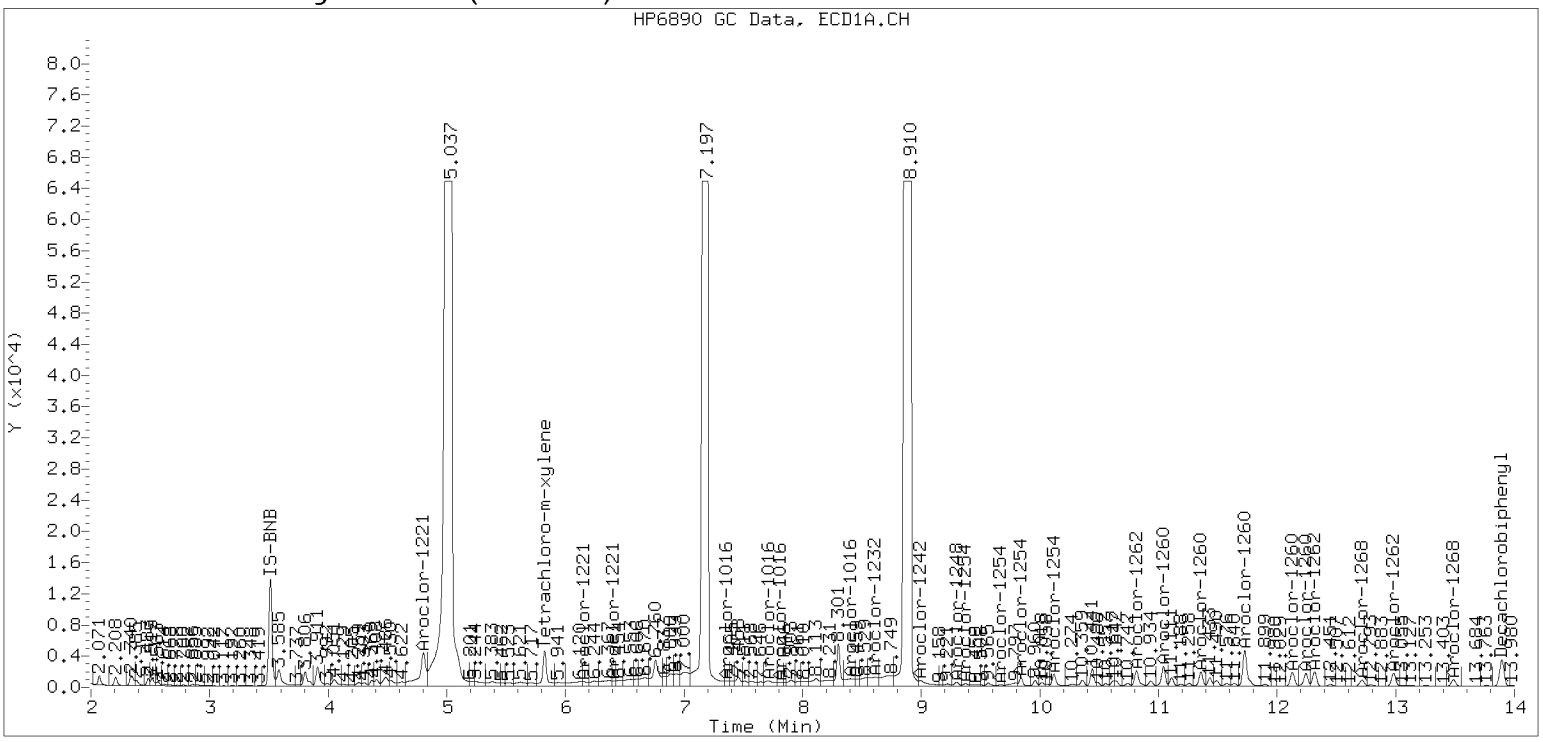
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042369ECD7.D Injection Date: 05-JAN-2023 09:18

Manual Integration (After)



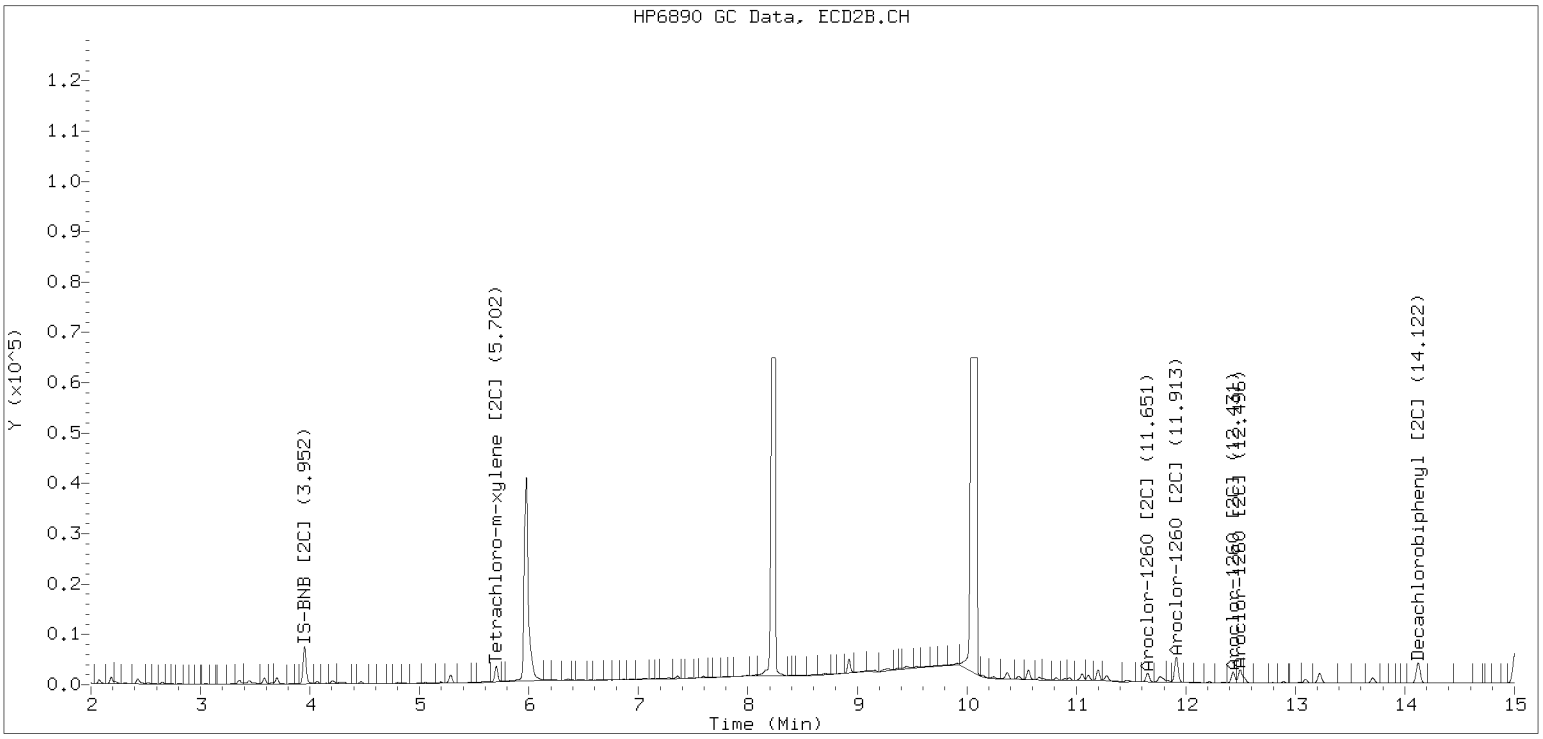
Processed Integration (Before)



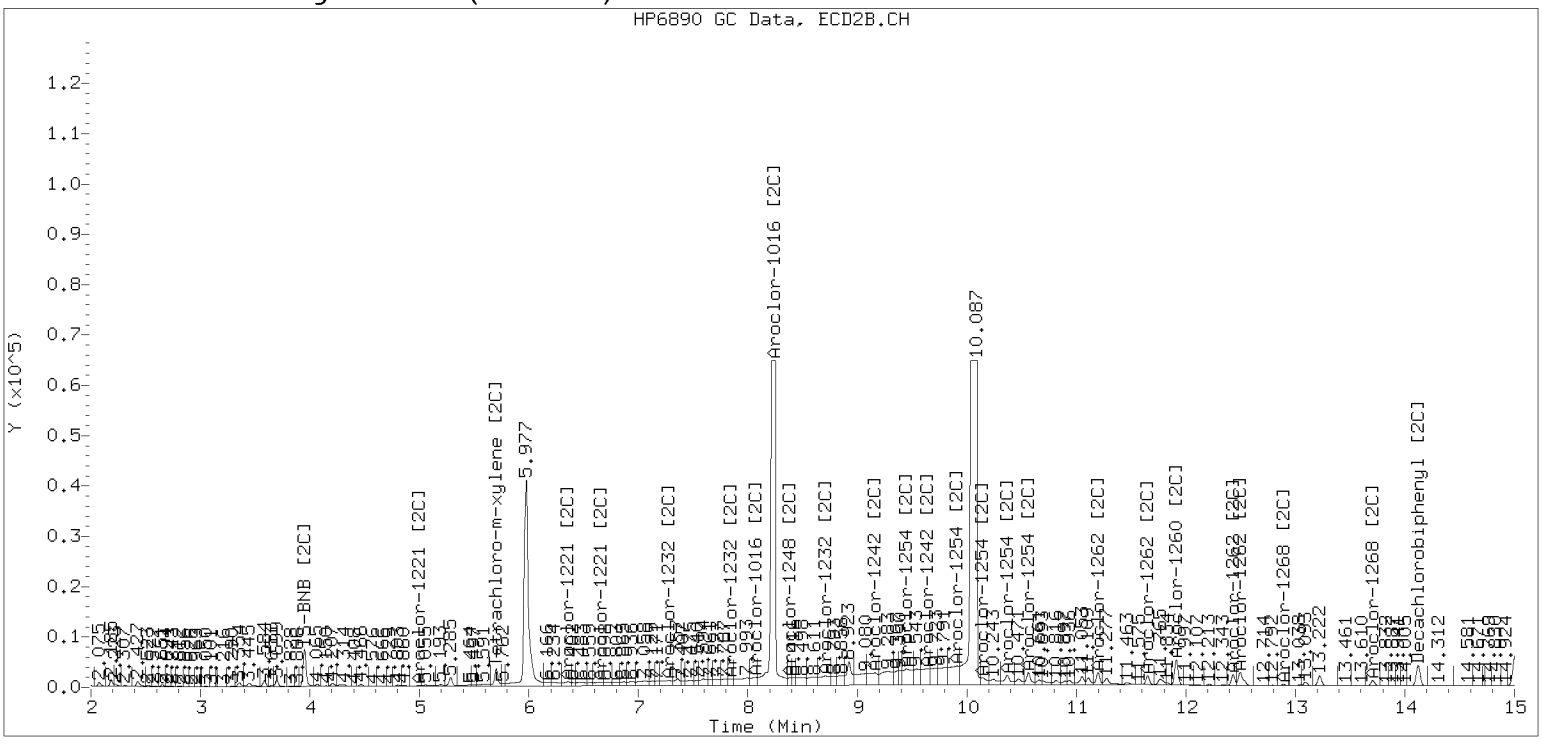
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042369ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC778F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-06 B	File ID:	01052365ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 10:52
% Solids:	63.34	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.48 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.5	15.8	40.5	U
11104-28-2	Aroclor 1221	1	10	40.5	15.8	40.5	U
11141-16-5	Aroclor 1232	1	10	40.5	15.8	40.5	U
53469-21-9	Aroclor 1242	1	10	40.5	15.8	40.5	U
12672-29-6	Aroclor 1248	1	10	40.5	15.8	40.5	U
11097-69-1	Aroclor 1254	2	10	97.9	15.8	40.5	P1, D
11096-82-5	Aroclor 1260	2	10	447	6.0	40.5	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.1046*	*10.1*	*124*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.1046*	*6.05*	*74.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.1046*	*8.71*	*107*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.1046*	*6.71*	*82.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052365ECD7.D
Data file 2: /230105.b/230105.b/01052365ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-06RE1
Client ID:
Injection Date: 06-JAN-2023 10:52
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	19912	5.704	-0.005	13996	3.0	3.3	10.3	Tetrachloro-m-xylene
13.895	-0.009	26724	14.123	-0.004	25280	5.0	4.3	14.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470439	5.1
Hexabromobiphenyl	798898	586630	-26.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	308332	23.8
Hexabromobiphenyl	362541	414288	14.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.303	-0.009	11681	28.2	1	9.453	-0.008	8592	43.2
Aroclor-1254	2	9.376	-0.016	5525	34.3	2	9.970	-0.007	1236	7.7
Aroclor-1254	3	9.705	0.021	2137	8.2	3	10.149	0.019	18777	54.7
Aroclor-1254	4	9.802	-0.017	8854	17.4	4	10.373	-0.005	31117	87.5
Aroclor-1254	5	10.122	-0.053	39732	1~~13.~~7	5	10.565	-0.010	41818	243.7
	Total Col1Ave (5 peaks):				~~40.~~3	Total Col2Ave (5 peaks):			87.4	RPD = 74*
	Corrected Ave (4 peaks):				22.0	Corrected Ave (4 peaks):			48.3	RPD = 75*
Aroclor-1260	1	11.046	-0.010	61858	289.7	1	11.654	-0.009	38856	177.7
Aroclor-1260	2	11.361	-0.011	45183	204.6	2	11.915	-0.011	107989	196.8
Aroclor-1260	3	11.730	-0.016	125369	216.0	3	12.435	-0.009	44197	302.5
Aroclor-1260	4	12.131	-0.019	50490	170.9	4	12.500	-0.008	75455	206.3
Aroclor-1260	5	12.246	-0.010	42954	355.1	NS	---			----
	Total Col1Ave (5 peaks):				247.2	Total Col2Ave (4 peaks):			220.8	RPD = 11
	Corrected Ave (4 peaks):				220.3	Corrected Ave (3 peaks):			193.6	RPD = 13
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 912655 Col1 Total PCB = 0.2 ppm*

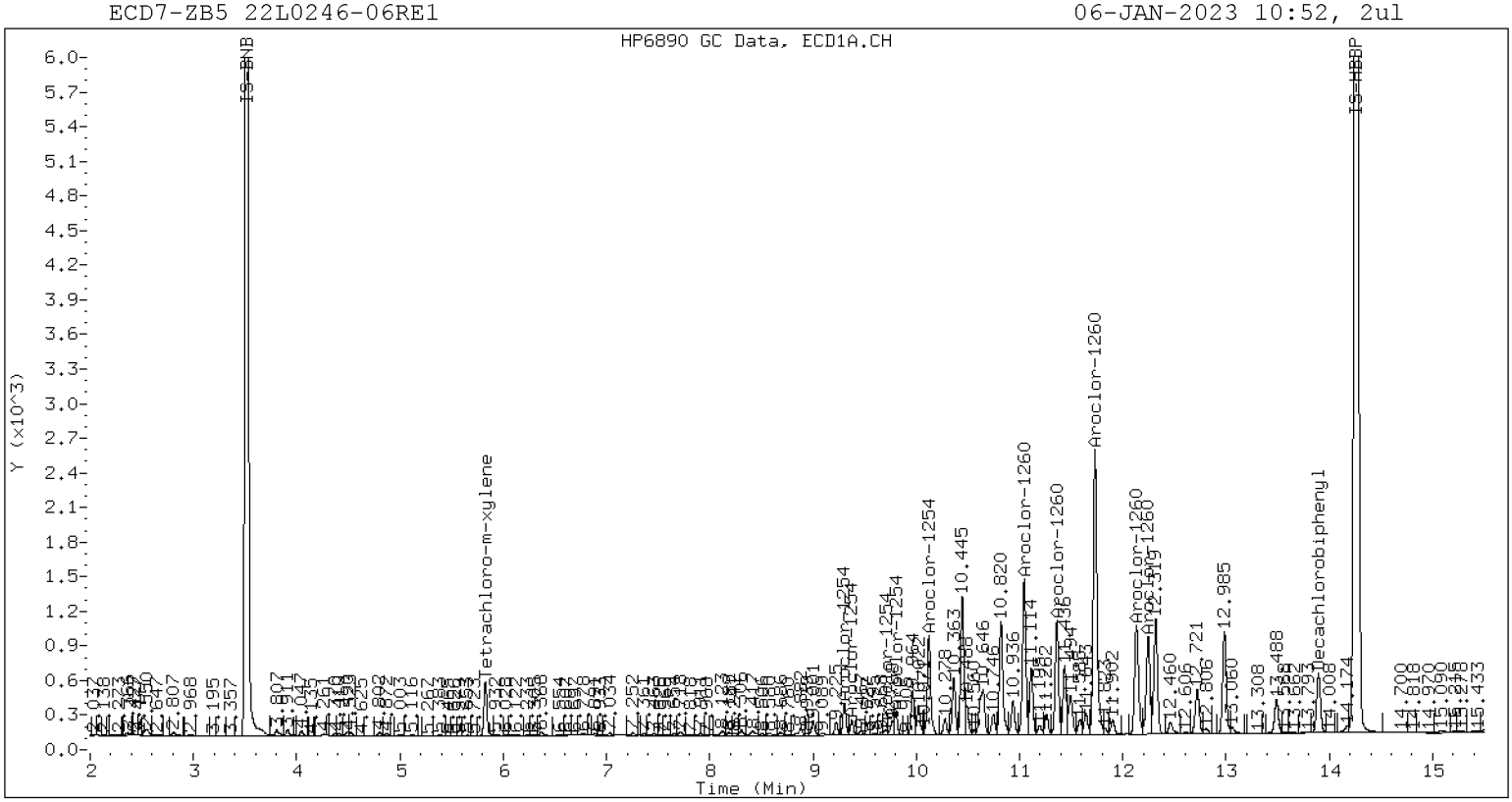
Total PCB Area Col2 (5.810 - 14.028) = 737468 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

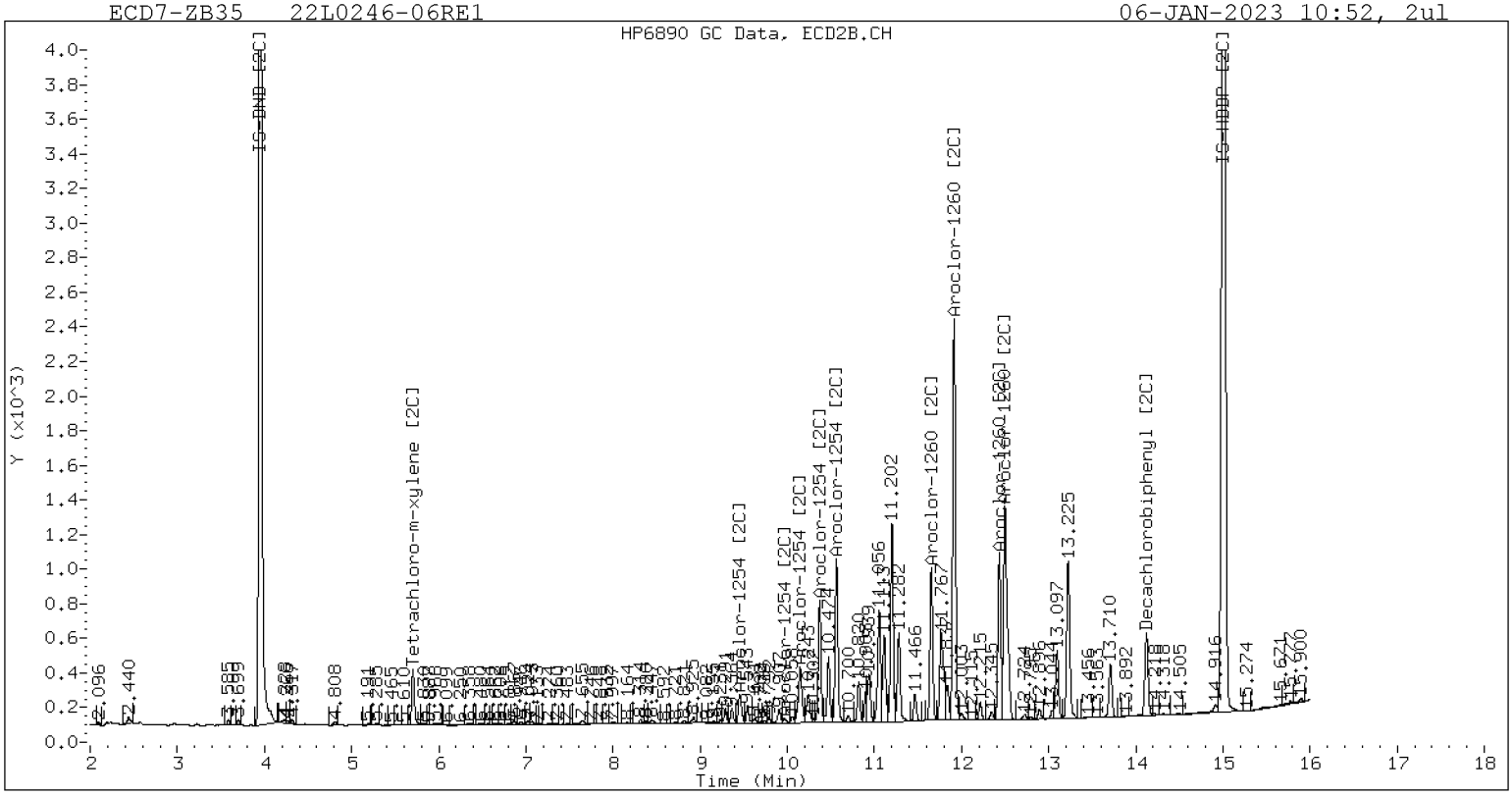
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-06RE1 06-JAN-2023 10:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-06RE1 06-JAN-2023 10:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-07 C	File ID:	01052366ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 11:13
% Solids:	62.46	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.02 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	20.0	7.8	20.0	U
11097-69-1	Aroclor 1254	2	5	339	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	124	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9971*	*7.62*	*95.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9971*	*4.40*	*55.0*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9971*	*6.67*	*83.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9971*	*5.13*	*64.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052366ECD7.D
Data file 2: /230105.b/230105.b/01052366ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-07RE1
Client ID:
Injection Date: 06-JAN-2023 11:13
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.009	28836	5.701	-0.009	21112	4.4	5.1	15.3	Tetrachloro-m-xylene
13.896	-0.008	37793	14.122	-0.005	36530	7.6	6.7	13.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	462392	3.3
Hexabromobiphenyl	798898	541050	-32.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	300387	20.6
Hexabromobiphenyl	362541	385840	6.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.299	-0.014	102326	251.3	1	9.450	-0.011	62429	322.3
Aroclor-1254	2	9.374	-0.018	42620	269.2	2	9.968	-0.010	38425	246.8
Aroclor-1254	3	9.666	-0.019	68669	267.0	3	10.116	-0.014	118190	353.1
Aroclor-1254	4	9.799	-0.020	155205	309.7	4	10.355	-0.024	130166	375.5
Aroclor-1254	5	10.142	-0.032	168429	490.2	5	10.565	-0.010	66492	397.7
	Total Col1Ave (5 peaks):			317.5		Total Col2Ave (5 peaks):			339.1	RPD = 7
	Corrected Ave (4 peaks):			274.3		Corrected Ave (4 peaks):			324.4	RPD = 17
Aroclor-1260	1	11.044	-0.012	20362	103.4	1	11.654	-0.008	40782	200.2
Aroclor-1260	2	11.361	-0.011	18419	90.4	2	11.914	-0.012	47169	92.3
Aroclor-1260	3	11.730	-0.016	50679	94.7	3	12.435	-0.009	14154	104.0
Aroclor-1260	4	12.131	-0.019	32193	118.1	4	12.497	-0.011	34153	100.2
Aroclor-1260	5	12.245	-0.011	11965	107.2	NS	---			----
	Total Col1Ave (5 peaks):			102.8		Total Col2Ave (4 peaks):			124.2	RPD = 19
	Corrected Ave (4 peaks):			98.9		Corrected Ave (3 peaks):			98.8	RPD = 0
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 1779731 Col1 Total PCB = 0.4 ppm*

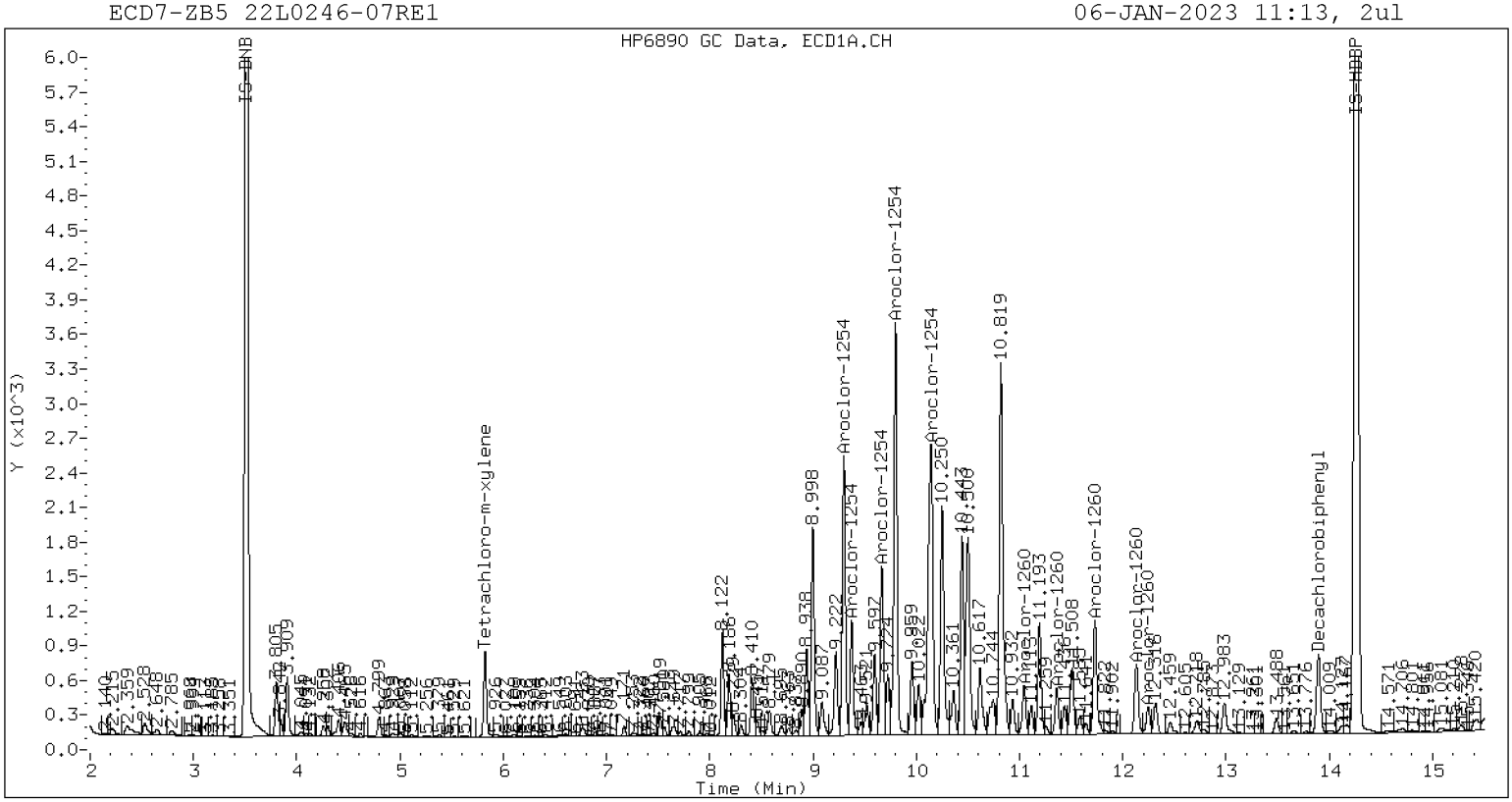
Total PCB Area Col2 (5.810 - 14.028) = 1350860 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

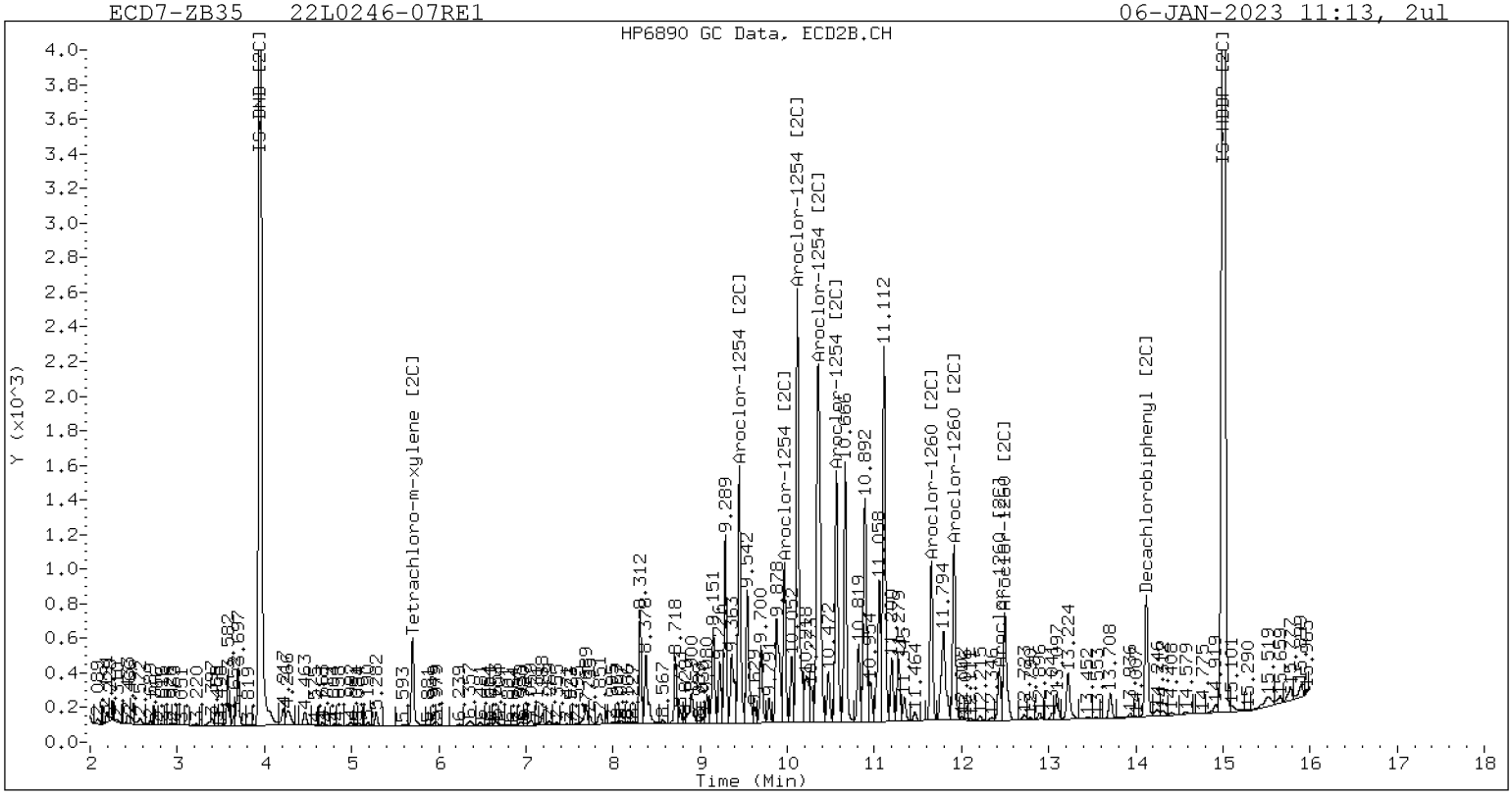
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-07RE1 06-JAN-2023 11:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-07RE1 06-JAN-2023 11:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-08 C	File ID:	01042372ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 10:21
% Solids:	63.53	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.7 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	88.2	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	126	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9902*	*8.87*	*111*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9902*	*4.63*	*57.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9902*	*8.36*	*105*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9902*	*5.90*	*73.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042372ECD7.D
Data file 2: /230104.b/230104.b/01042372ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-08
Client ID:
Injection Date: 05-JAN-2023 10:21
Report Date: 01/09/2023 15:35
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.823	-0.008	166526	5.700	-0.007	123467	23.2	29.5	24.1	Tetrachloro-m-xylene
13.894	-0.007	169625	14.122	-0.006	201903	44.4	41.9	5.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	507150	13.3
Hexabromobiphenyl	798898	416650	-47.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	305082	22.5
Hexabromobiphenyl	362541	339752	-6.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.296	-0.018	107344	240.4	1	9.447	-0.013	74774	380.1
Aroclor-1254	2	9.371	-0.022	45083	259.6	2	9.966	-0.012	41511	262.5
Aroclor-1254	3	9.666	-0.019	81038	287.3	3	10.114	-0.015	136343	401.1
Aroclor-1254	4	9.796	-0.024	179736	326.9	4	10.362	-0.015	168239	477.9
Aroclor-1254	5	10.130	-0.046	189253	502.2	5	10.563	-0.012	116304	685.0
	Total Col1Ave (5 peaks):			323.3		Total Col2Ave (5 peaks):			441.3	RPD = 31
	Corrected Ave (4 peaks):			278.6		Corrected Ave (4 peaks):			380.4	RPD = 31
Aroclor-1260	1	11.042	-0.012	104850	691.3	1	11.652	-0.009	95935	534.9
Aroclor-1260	2	11.359	-0.013	78078	497.8	2	11.913	-0.010	236321	525.1
Aroclor-1260	3	11.728	-0.018	242148	587.5	3	12.432	-0.010	101164	844.2
Aroclor-1260	4	12.128	-0.020	112356	535.3	4	12.496	-0.010	184604	615.4
Aroclor-1260	5	12.243	-0.011	84790	986.8	NS	---			----
	Total Col1Ave (5 peaks):			659.8		Total Col2Ave (4 peaks):			629.9	RPD = 5
	Corrected Ave (4 peaks):			578.0		Corrected Ave (3 peaks):			558.5	RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.931 - 13.802) = 3873379 Col1 Total PCB = 0.8 ppm*

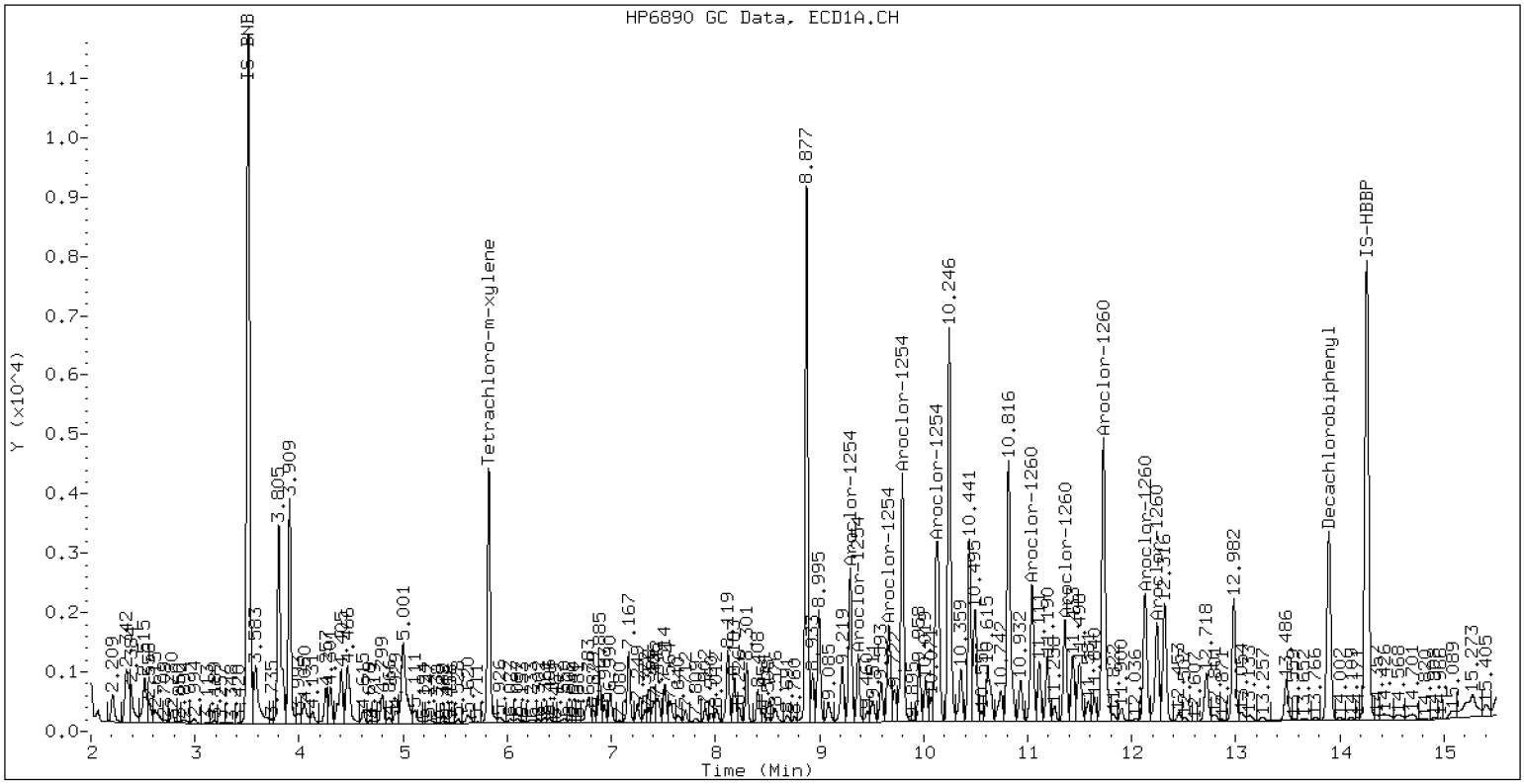
Total PCB Area Col2 (5.807 - 14.028) = 3143867 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

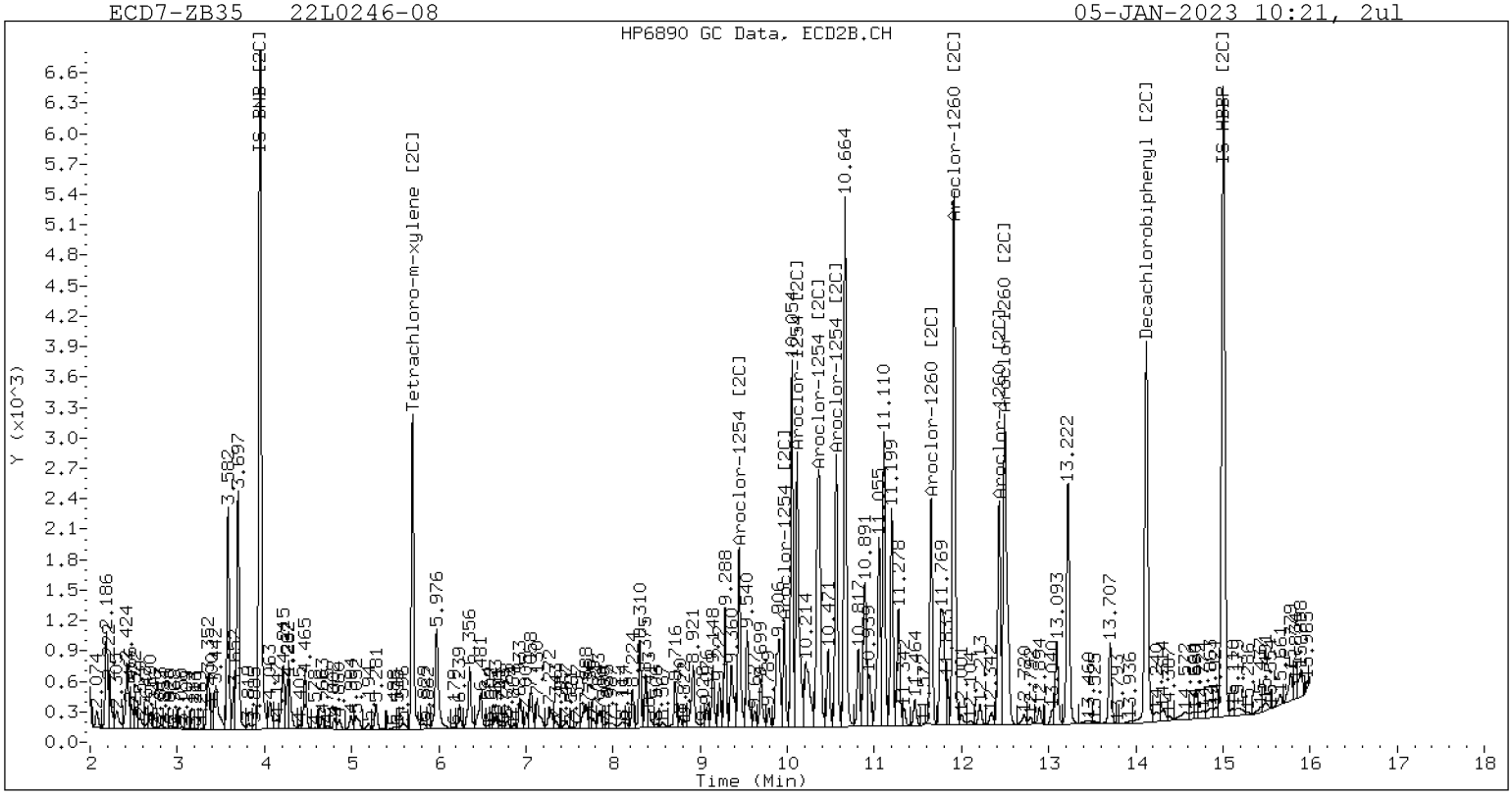
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-08 05-JAN-2023 10:21, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-08 05-JAN-2023 10:21, 2ul

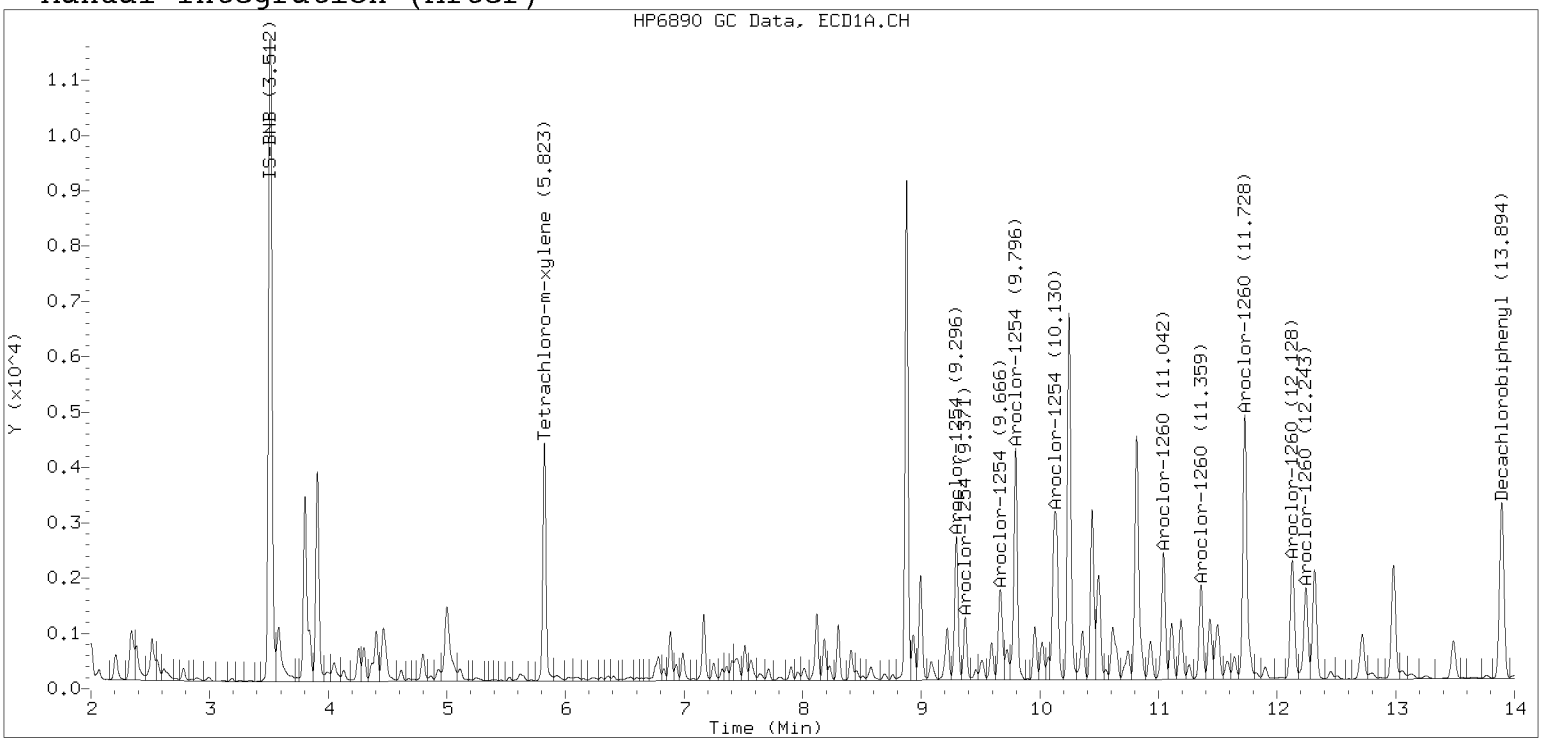


ZB-35 Manual Integration: NO

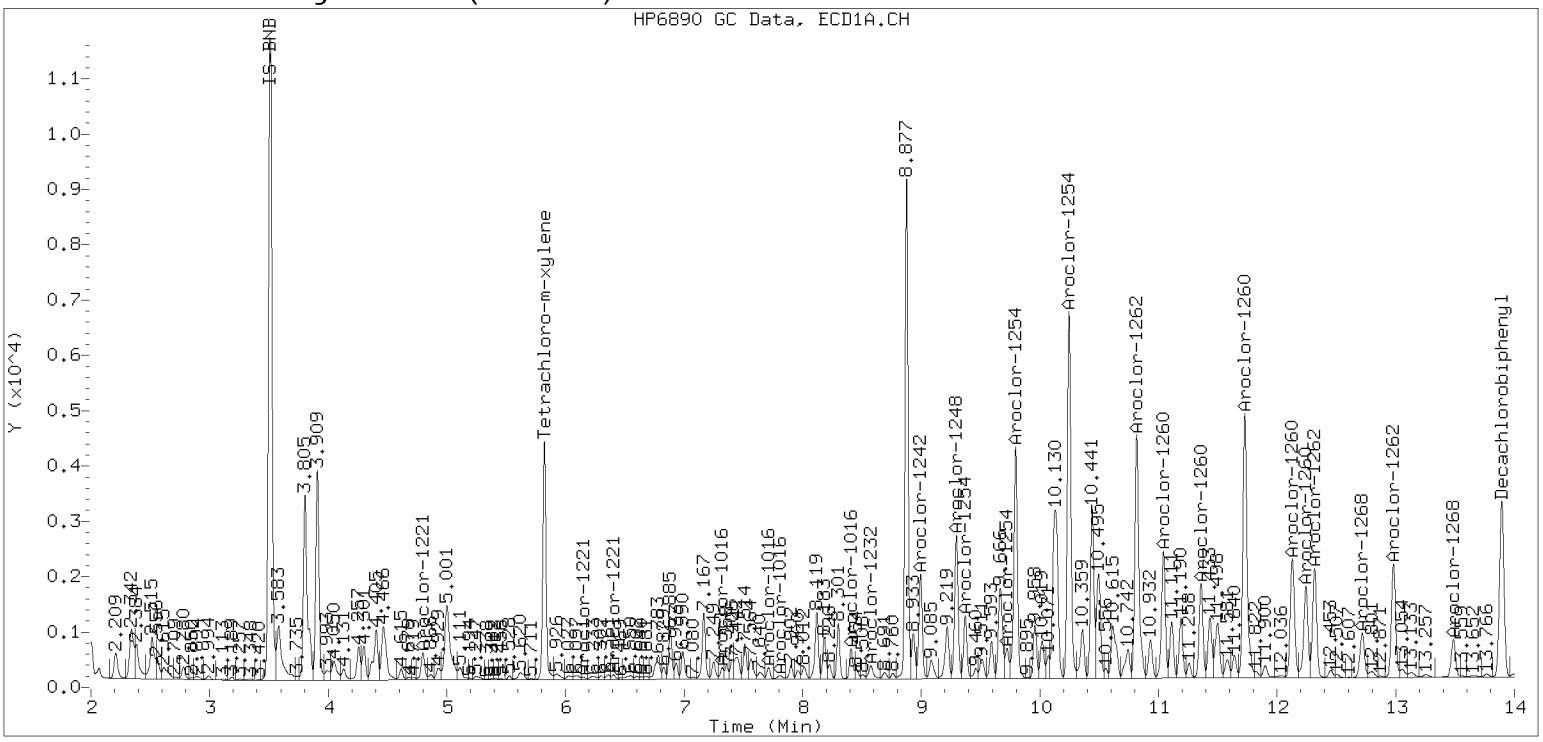
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042372ECD7.D Injection Date: 05-JAN-2023 10:21

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-09 C	File ID:	01052368ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 11:55
% Solids:	59.23	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.13 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	41.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	145	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9902*	*9.85*	*123*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9902*	*5.37*	*67.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9902*	*8.91*	*112*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9902*	*6.01*	*75.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052368ECD7.D
Data file 2: /230105.b/230105.b/01052368ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-09
Client ID:
Injection Date: 06-JAN-2023 11:55
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	166676	5.701	-0.009	118357	26.9	30.1	11.2	Tetrachloro-m-xylene
13.895	-0.009	178231	14.122	-0.005	196743	49.3	44.6	10.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	437703	-2.2
Hexabromobiphenyl	798898	394323	-50.6 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	287202	15.3
Hexabromobiphenyl	362541	310650	-14.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1254	1	9.298	-0.015	49124	127.5	1	9.448	-0.013	34083	184.1
Aroclor-1254	2	9.372	-0.020	18717	124.9	2	9.967	-0.011	21655	145.5
Aroclor-1254	3	9.664	-0.020	35010	143.8	3	10.146	0.015	50582	158.1
Aroclor-1254	4	9.798	-0.021	76974	162.2	4	10.370	-0.008	112272	338.8
Aroclor-1254	5	10.248	0.073	48808	~~150~~.1	5	10.563	-0.012	87734	5~~48~~.9
		Total Col1Ave (5 peaks):			141.7		Total Col2Ave (5 peaks):			~~275~~.0 RPD = 64*
		Corrected Ave (4 peaks):			136.6		Corrected Ave (4 peaks):			206.6 RPD = 41*
					139.6					
Aroclor-1260	1	11.043	-0.013	151681	1056.8	1	11.653	-0.010	95414	581.9
Aroclor-1260	2	11.359	-0.013	97228	654.9	2	11.914	-0.013	243658	592.2
Aroclor-1260	3	11.729	-0.017	253227	649.2	3	12.433	-0.010	125251	1143.1
Aroclor-1260	4	12.130	-0.020	115486	581.4	4	12.497	-0.011	160545	585.3
Aroclor-1260	5	12.244	-0.012	107511	1322.1	NS	---			----
		Total Col1Ave (5 peaks):			852.9		Total Col2Ave (4 peaks):			725.6 RPD = 16
		Corrected Ave (4 peaks):			735.6		Corrected Ave (3 peaks):			586.4 RPD = 23
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2766095 Col1 Total PCB = 0.7 ppm*

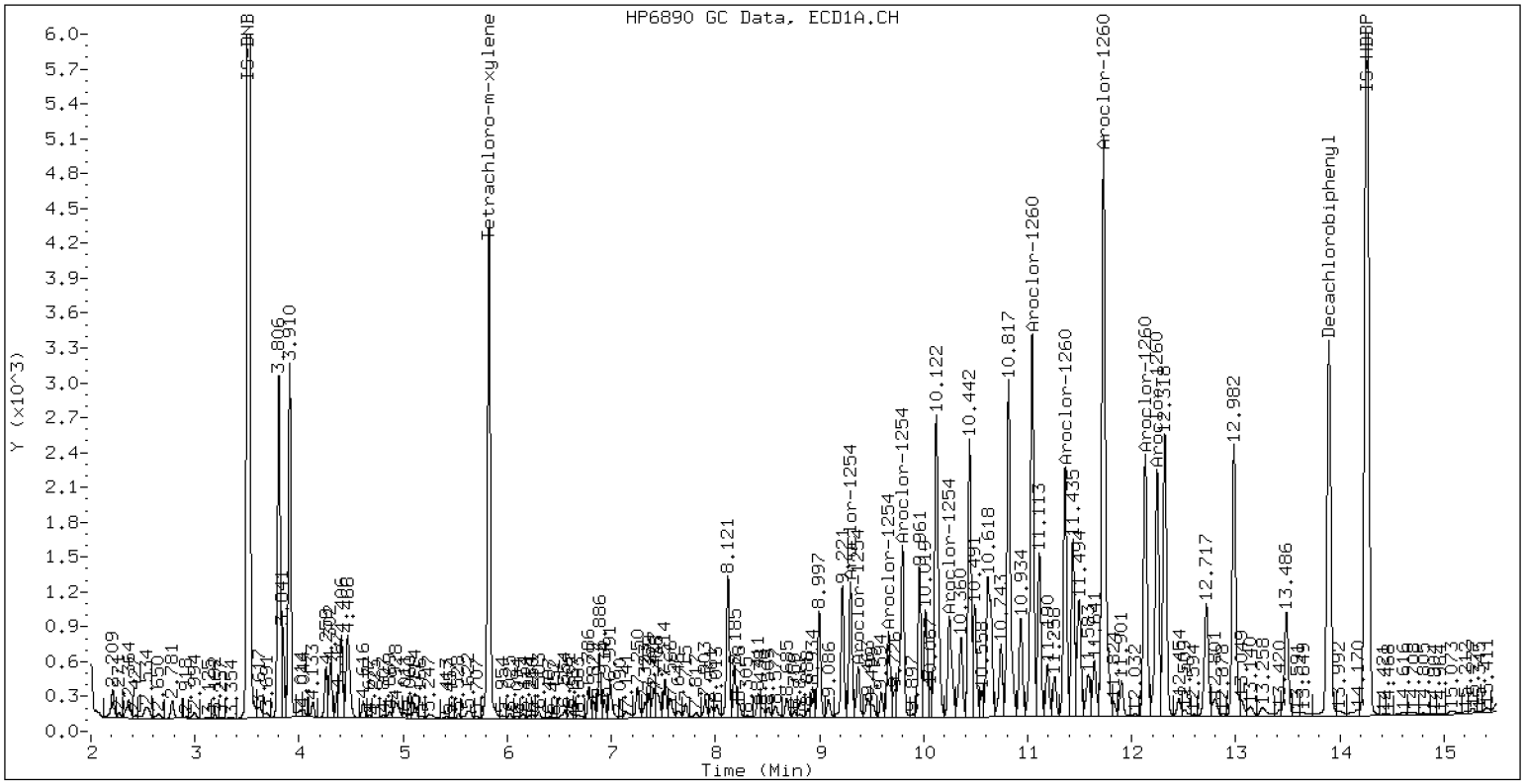
Total PCB Area Col2 (5.810 - 14.028) = 2344636 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

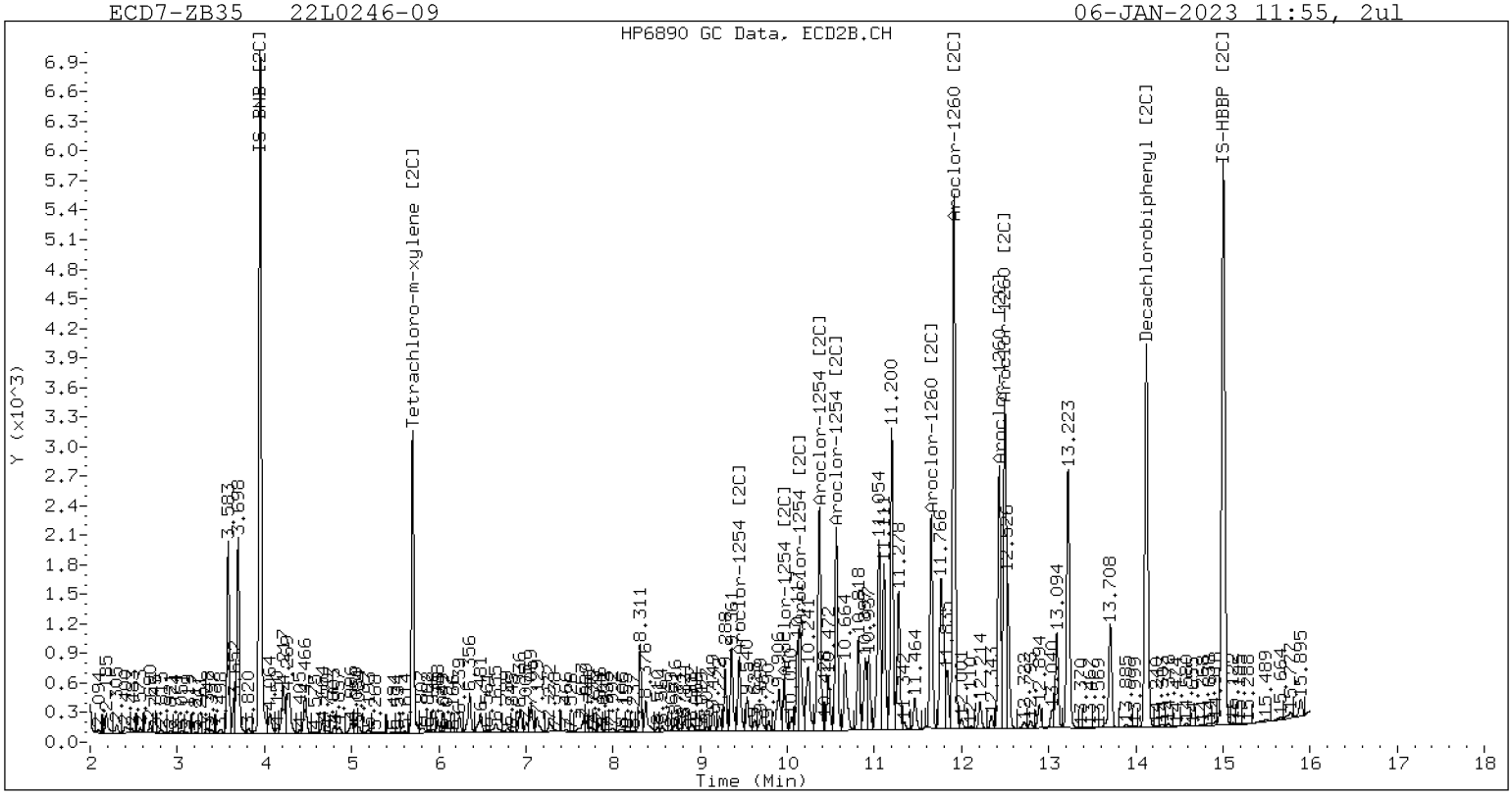
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-09 06-JAN-2023 11:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-09 06-JAN-2023 11:55, 2ul

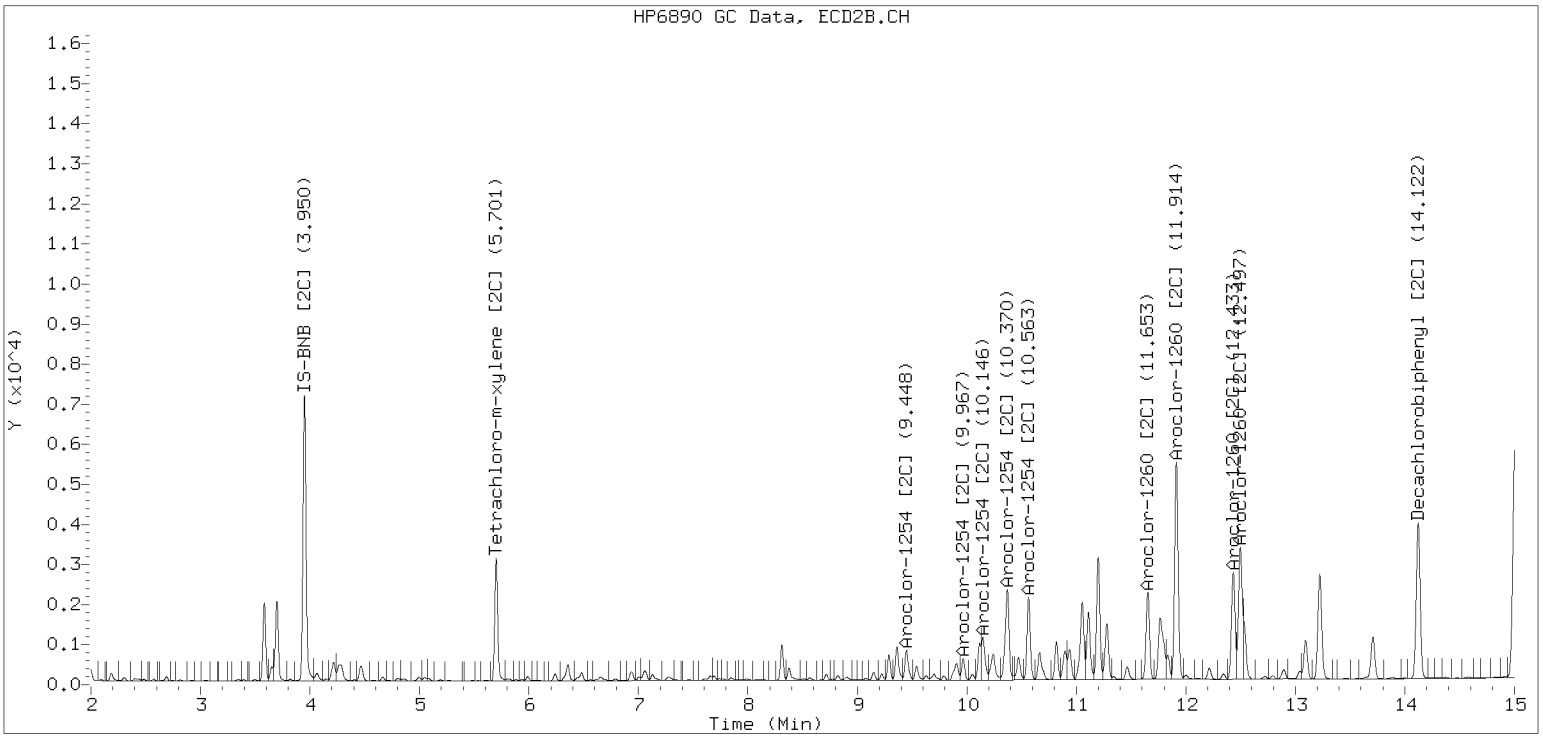


ZB-35 Manual Integration: YES

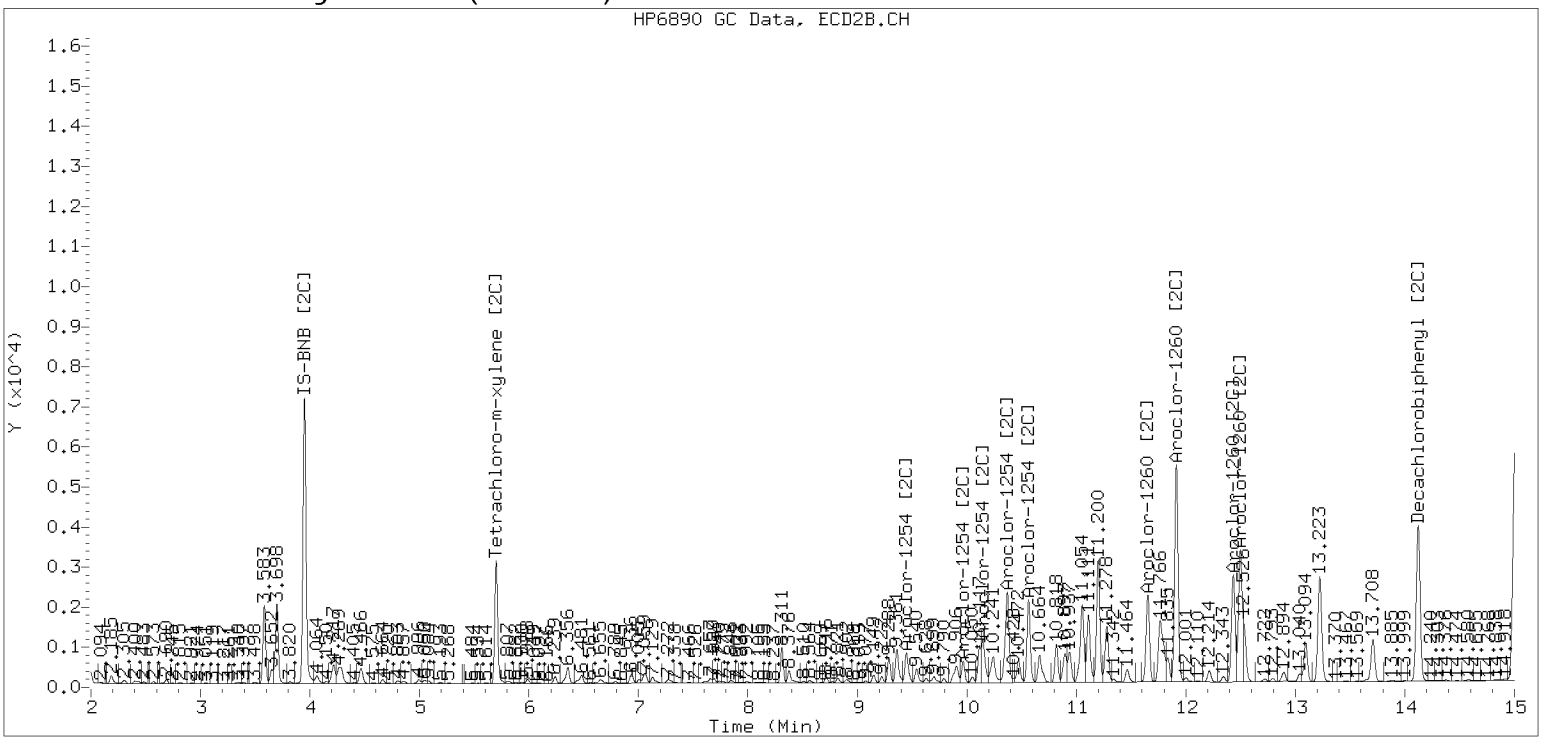
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052368ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810B-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-10 C	File ID:	01042374ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 11:04
% Solids:	65.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.21 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	95.8	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	105	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9792*	*8.75*	*110*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9792*	*4.83*	*60.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9792*	*7.88*	*98.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9792*	*5.85*	*73.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042374ECD7.D
Data file 2: /230104.b/230104.b/01042374ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-10
Client ID:
Injection Date: 05-JAN-2023 11:04
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.823	-0.007	164716	5.700	-0.007	121065	24.2	29.3	19.2	Tetrachloro-m-xylene
13.894	-0.007	168610	14.121	-0.007	189399	43.9	39.5	10.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480426	7.3
Hexabromobiphenyl	798898	419446	-47.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301232	20.9
Hexabromobiphenyl	362541	337779	-6.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.296	-0.025	124265	293.8	1	9.447	-0.013	84358	434.3
Aroclor-1254	2	9.371	-0.031	51806	314.9	2	9.966	-0.012	47603	304.9
Aroclor-1254	3	9.665	-0.029	94066	352.1	3	10.113	-0.015	154588	460.6
Aroclor-1254	4	9.796	-0.034	203399	390.6	4	10.353	-0.024	182569	525.2
Aroclor-1254	5	10.134	-0.055	207167	580.3	5	10.563	-0.012	113548	677.3
	Total Col1Ave (5 peaks):				386.3	Total Col2Ave (5 peaks):				480.5 RPD = 22
	Corrected Ave (4 peaks):				337.8	Corrected Ave (4 peaks):				431.3 RPD = 24
Aroclor-1260	1	11.042	-0.014	80440	526.9	1	11.652	-0.009	84648	474.8
Aroclor-1260	2	11.358	-0.014	61220	387.7	2	11.913	-0.011	180257	402.9
Aroclor-1260	3	11.727	-0.019	174806	421.3	3	12.431	-0.011	90569	760.2
Aroclor-1260	4	12.128	-0.022	86989	411.7	4	12.497	-0.009	136833	458.8
Aroclor-1260	5	12.242	-0.013	59962	693.2	NS	---			----
	Total Col1Ave (5 peaks):				488.2	Total Col2Ave (4 peaks):				524.2 RPD = 7
	Corrected Ave (4 peaks):				436.9	Corrected Ave (3 peaks):				445.5 RPD = 2
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 3633699 Col1 Total PCB = 0.8 ppm*

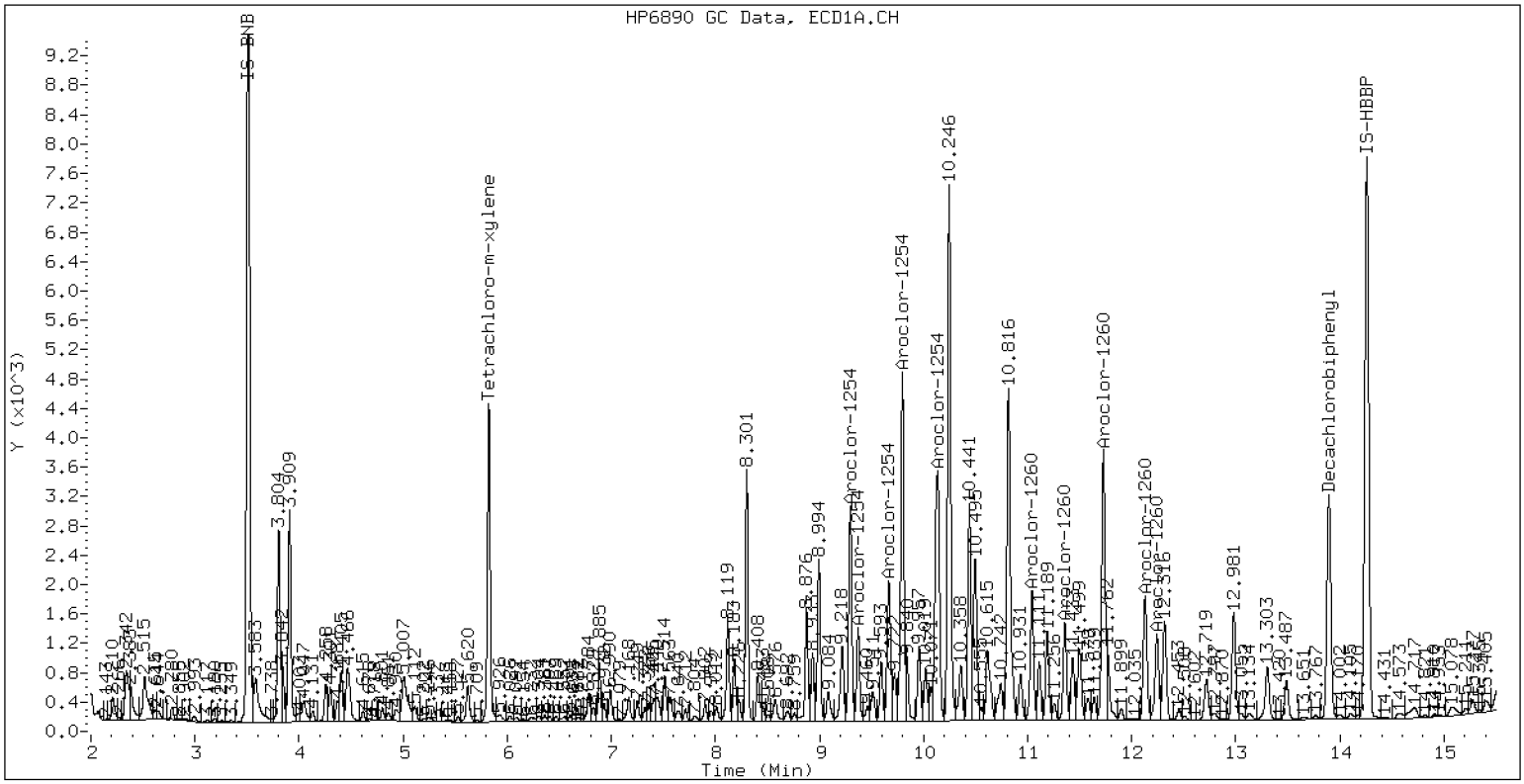
Total PCB Area Col2 (5.807 - 14.028) = 2950289 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

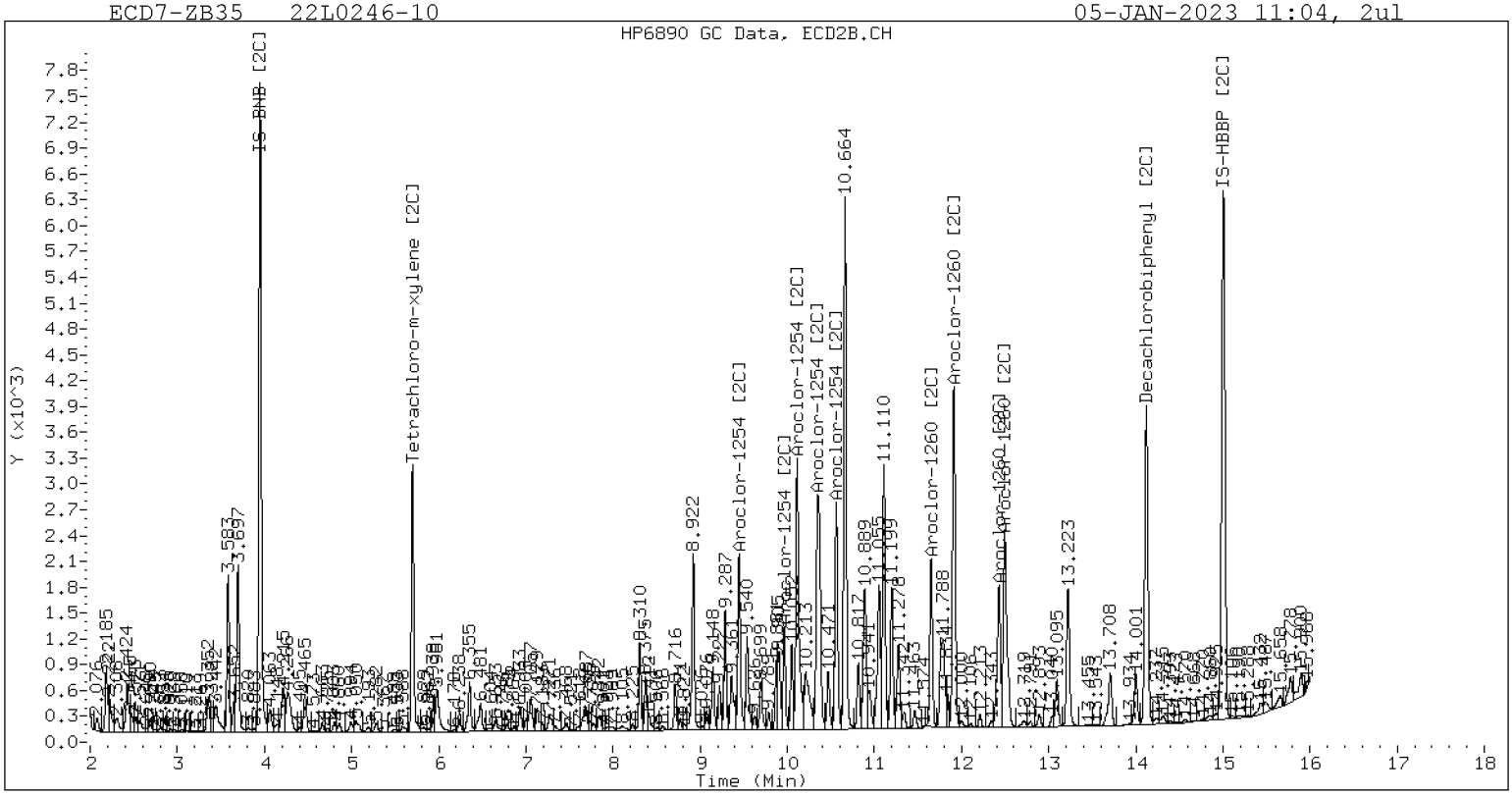
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-10 05-JAN-2023 11:04, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-10 05-JAN-2023 11:04, 2ul

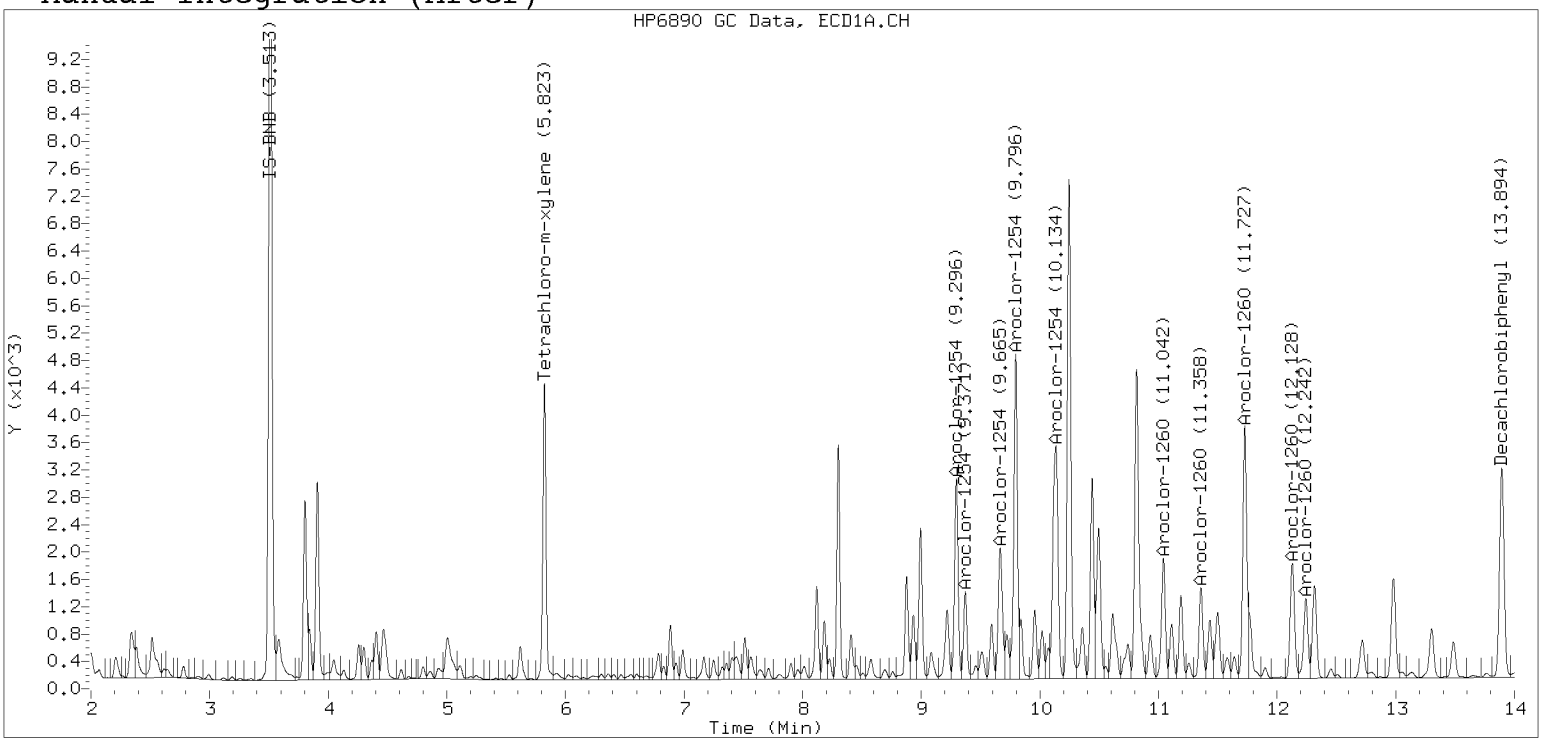


ZB-35 Manual Integration: NO

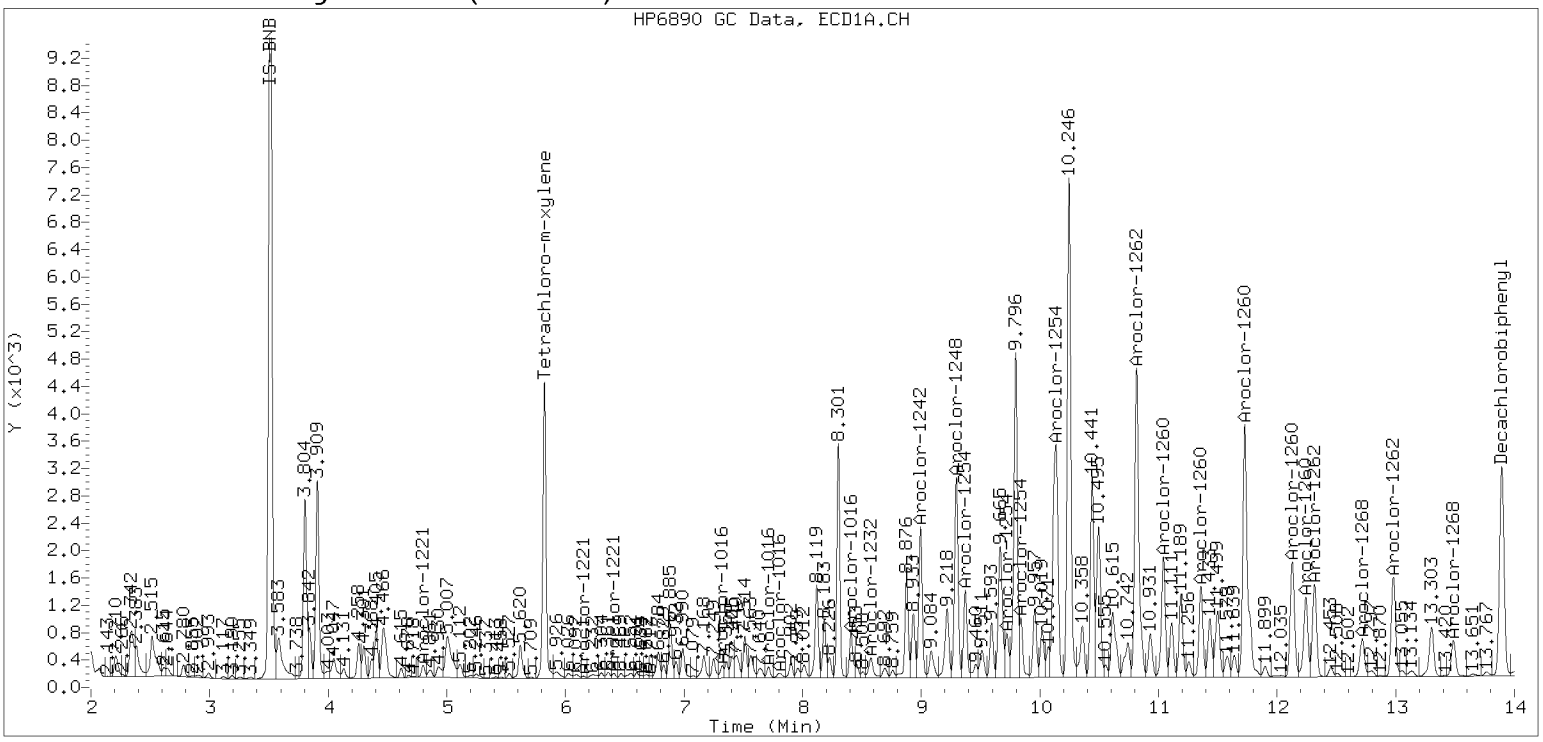
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042374ECD7.D Injection Date: 05-JAN-2023 11:04

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-11 C	File ID:	01052321ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 19:25
% Solids:	59.94	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.85 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	10.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	14.2	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	28.4	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0016*	*9.26*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0016*	*4.55*	*56.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.0016*	*8.08*	*101*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.0016*	*6.36*	*79.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052321ECD7.D
Data file 2: /230105.b/230105.b/01052321ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-11
Client ID:
Injection Date: 05-JAN-2023 19:25
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.007	178581	5.702	-0.008	132925	22.8	31.8	33.2	Tetrachloro-m-xylene
13.895	-0.009	183842	14.122	-0.005	197528	46.3	40.4	13.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	553837	23.7
Hexabromobiphenyl	798898	433239	-45.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	304905	22.4
Hexabromobiphenyl	362541	344296	-5.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.011	8263	34.7	1	8.312	-0.010	11293	90.7
Aroclor-1248	2	8.604	0.005	8243	27.1	2	8.717	-0.010	4411	33.7
Aroclor-1248	3	8.997	-0.019	18074	33.0	3	9.149	-0.024	5413	34.0
Aroclor-1248	4	9.297	-0.014	22025	82.2	4	9.541	-0.052	8625	~~46.~~1
		Total Col1Ave (4 peaks):			44.3		Total Col2Ave (4 peaks):			51.1 RPD = 14
		Corrected Ave (3 peaks):			31.6		Corrected Ave (3 peaks):			37.9 RPD = 18
										52.8
Aroclor-1254	1	9.297	-0.015	22025	45.2	1	9.448	-0.013	14043	71.4
Aroclor-1254	2	9.372	-0.020	8468	44.7	2	9.966	-0.012	9050	57.3
Aroclor-1254	3	9.666	-0.019	16422	53.3	3	10.114	-0.016	18893	55.6
Aroclor-1254	4	9.797	-0.021	37364	62.2	4	10.367	-0.012	35348	100.5
Aroclor-1254	5	10.124	-0.051	42036	~~102.~~1	5	10.563	-0.013	23185	~~136.~~6
		Total Col1Ave (5 peaks):			~~61.~~5		Total Col2Ave (5 peaks):			84.3 RPD = 31
		Corrected Ave (4 peaks):			51.3		Corrected Ave (4 peaks):			71.2 RPD = 32
Aroclor-1260	1	11.042	-0.014	31024	196.7	1	11.652	-0.011	21581	118.7
Aroclor-1260	2	11.359	-0.014	20381	125.0	2	11.913	-0.013	48685	106.8
Aroclor-1260	3	11.728	-0.018	47171	110.1	3	12.432	-0.011	25492	209.9
Aroclor-1260	4	12.128	-0.022	23516	107.8	4	12.497	-0.011	40299	132.6
Aroclor-1260	5	12.243	-0.012	23119	258.8	NS	---			----
		Total Col1Ave (5 peaks):			159.7		Total Col2Ave (4 peaks):			142.0 RPD = 12
		Corrected Ave (4 peaks):			134.9		Corrected Ave (3 peaks):			119.4 RPD = 12
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 1442193 Col1 Total PCB = 0.3 ppm*

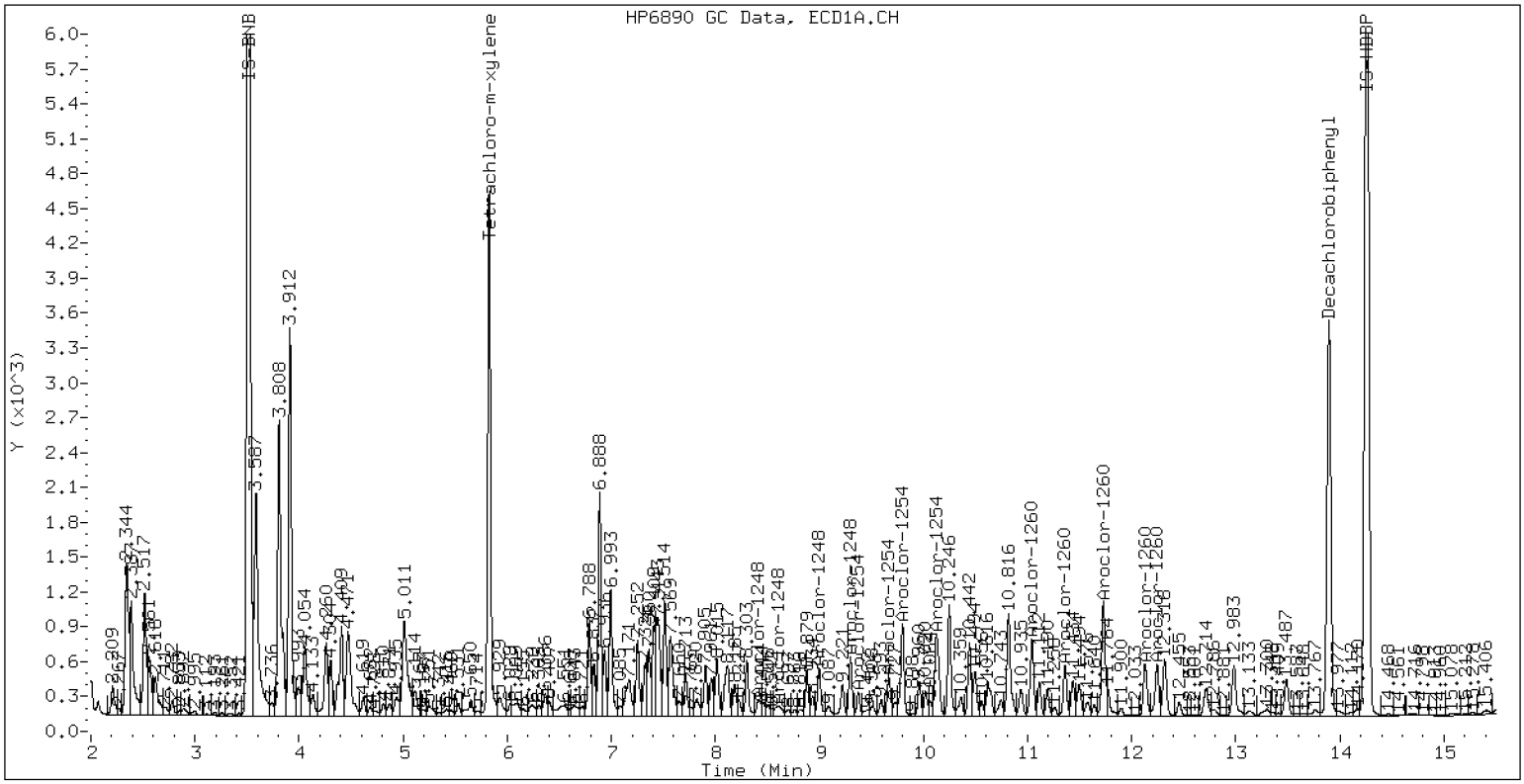
Total PCB Area Col2 (5.810 - 14.028) = 1049709 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

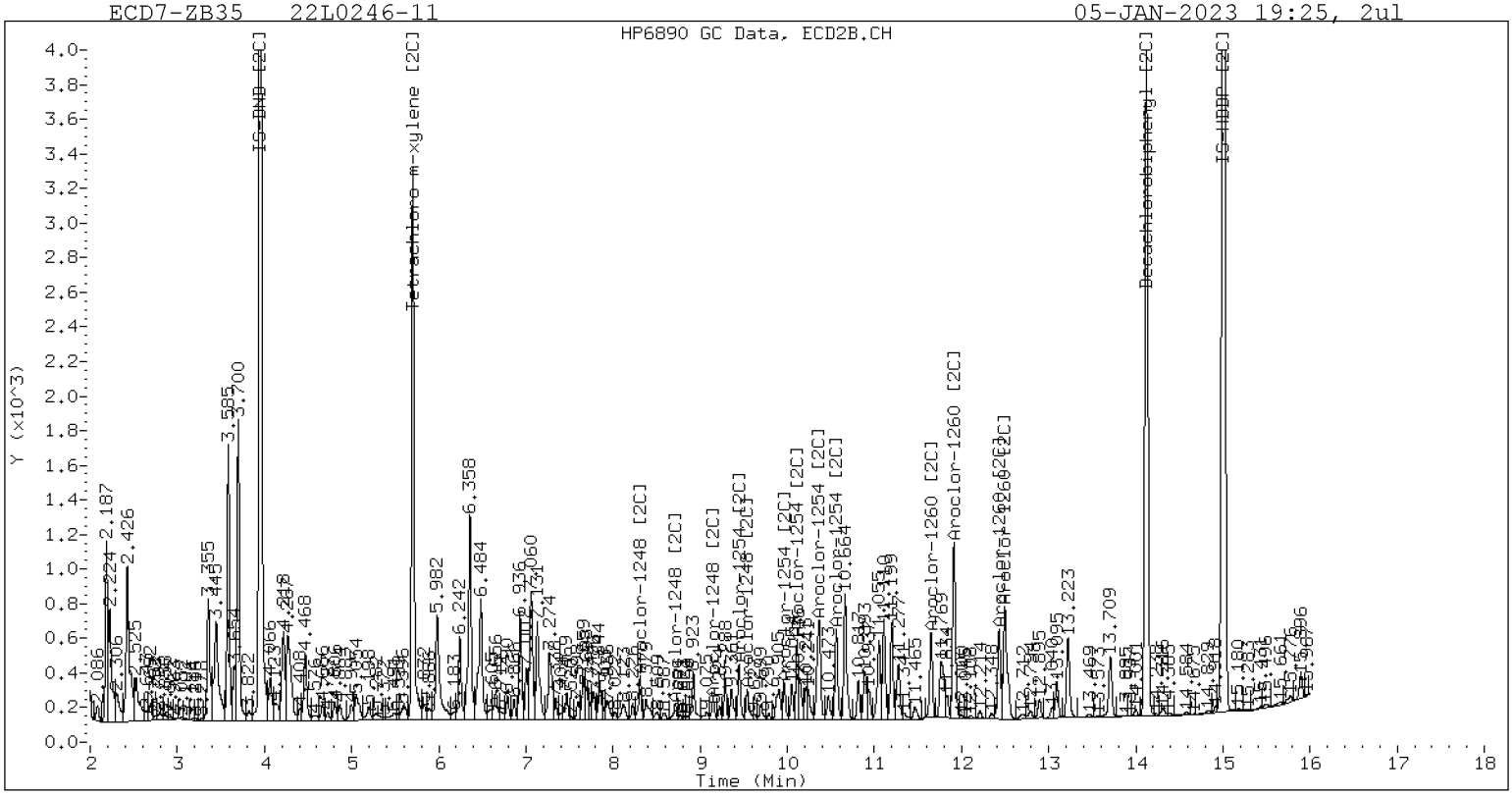
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-11 05-JAN-2023 19:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-11 05-JAN-2023 19:25, 2ul

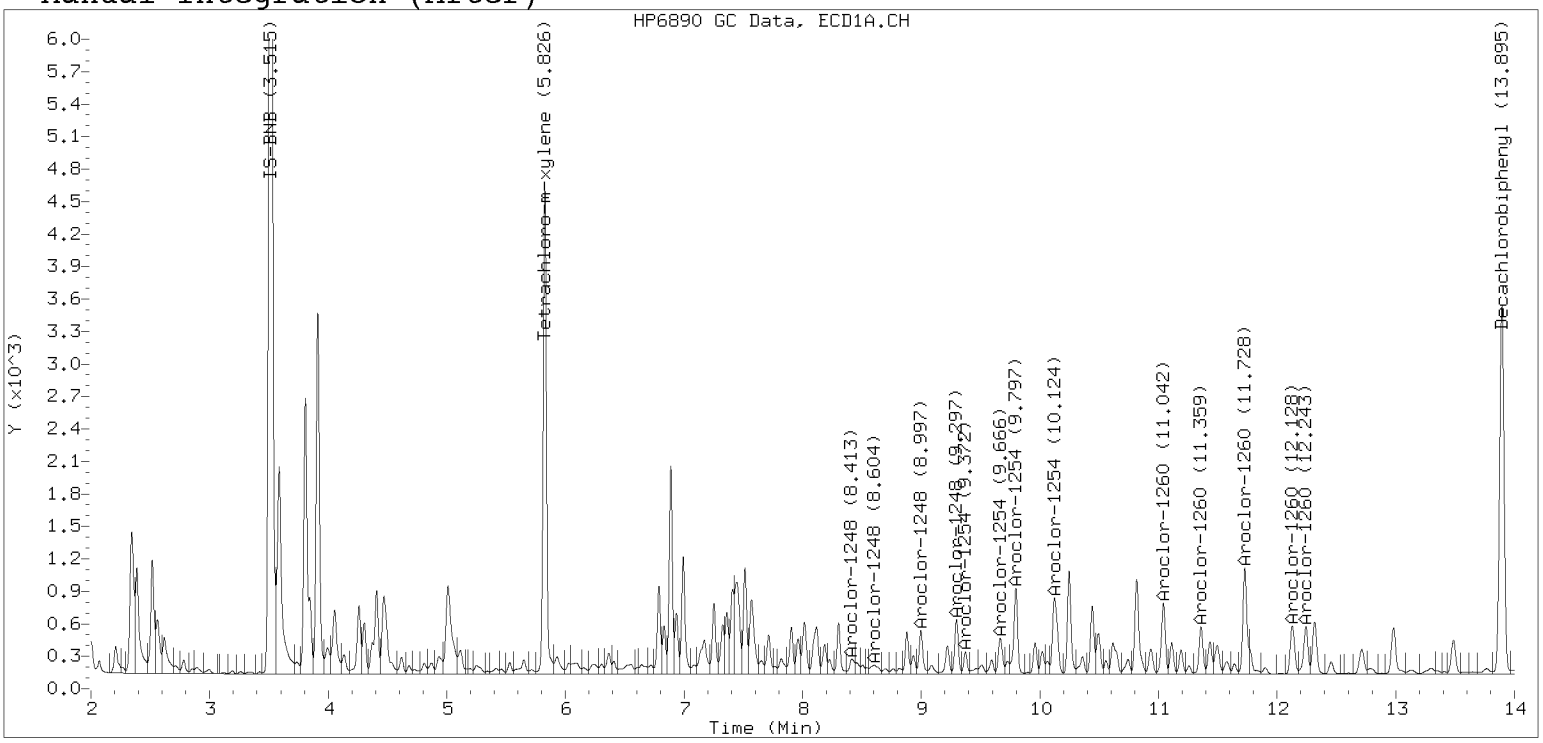


ZB-35 Manual Integration: YES

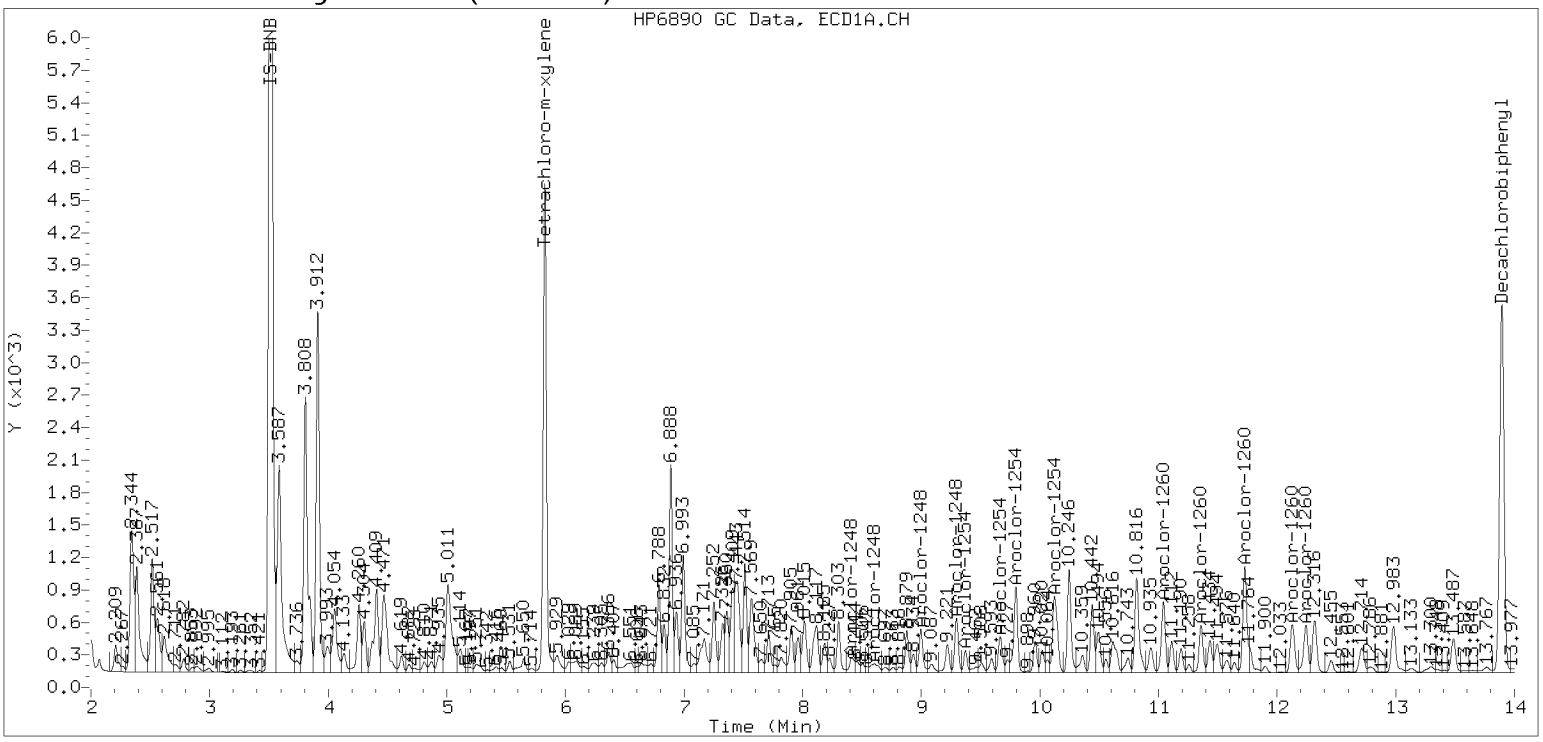
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052321ECD7.D Injection Date: 05-JAN-2023 19:25

Manual Integration (After)



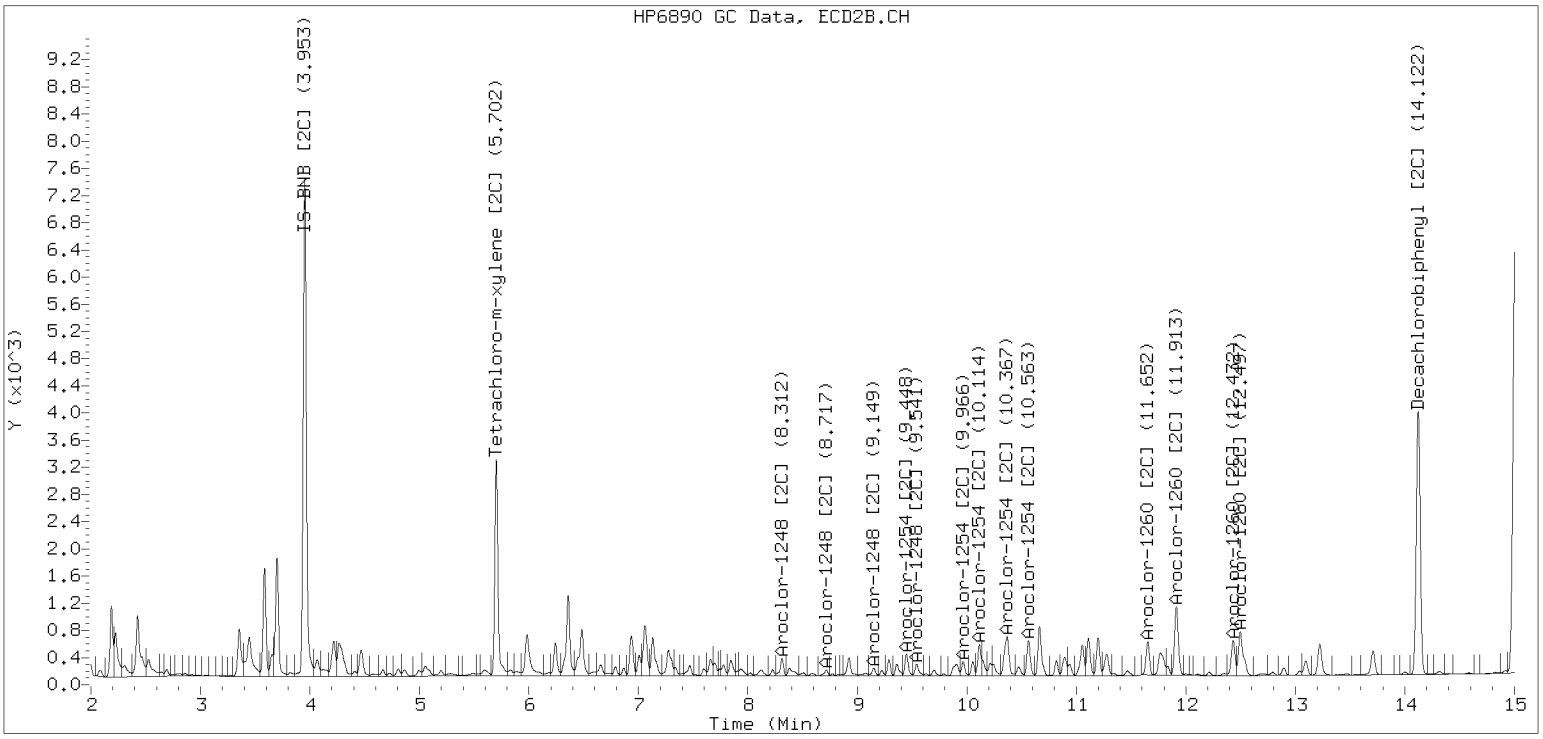
Processed Integration (Before)



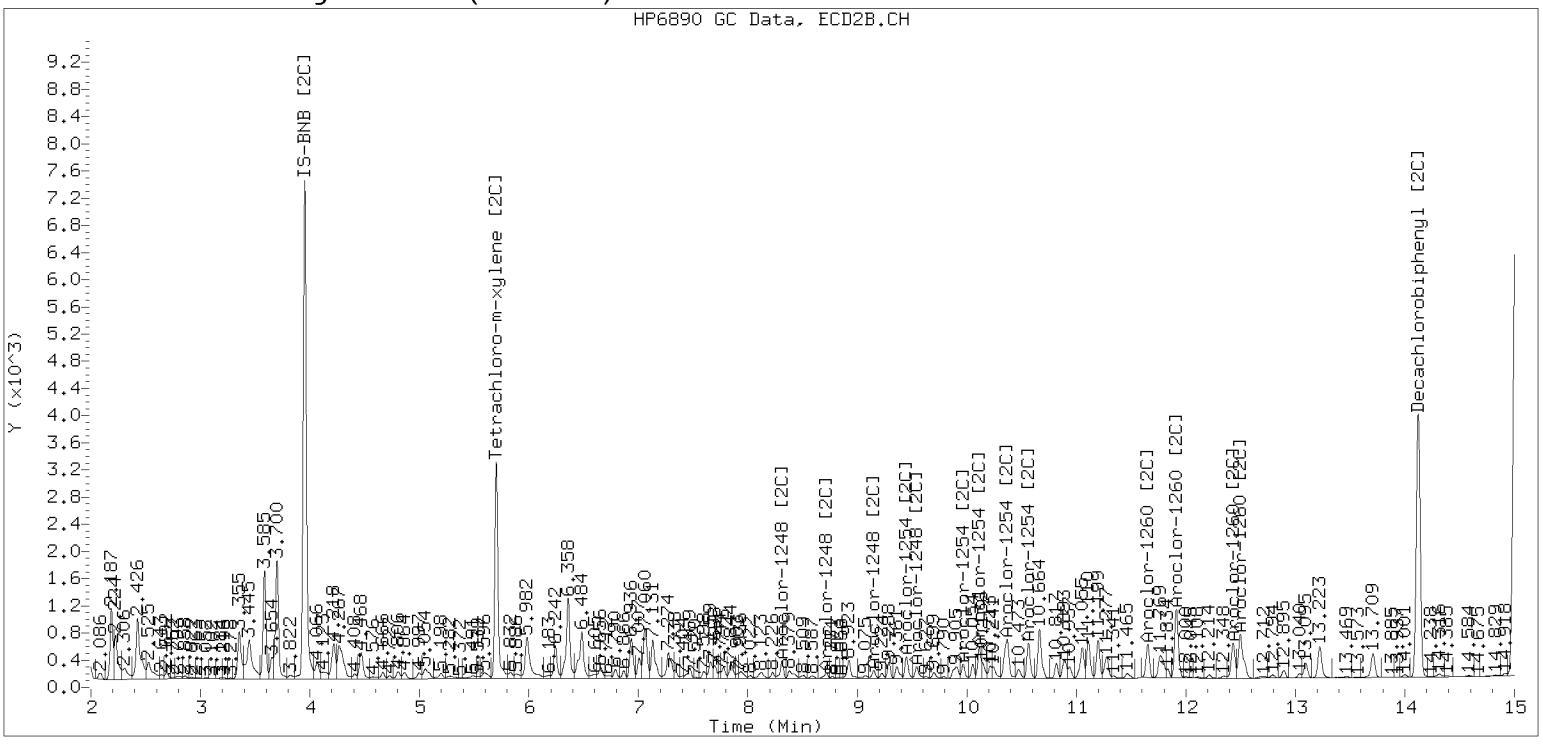
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052321ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-12 C	File ID:	01052322ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 19:46
% Solids:	54.55	Preparation:	EPA 3546 (Microwave)	Initial/Final:	22.92 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	7.3	1.6	4.0	P1
11096-82-5	Aroclor 1260	2	1	22.2	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9982*	*8.56*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9982*	*4.45*	*55.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9982*	*7.58*	*94.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9982*	*5.98*	*74.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052322ECD7.D
Data file 2: /230105.b/230105.b/01052322ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-12
Client ID:
Injection Date: 05-JAN-2023 19:46
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.009	154908	5.701	-0.009	116751	22.2	29.9	29.4	Tetrachloro-m-xylene
13.895	-0.009	158460	14.123	-0.004	177427	42.8	37.9	12.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	491486	9.8
Hexabromobiphenyl	798898	403747	-49.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	284892	14.4
Hexabromobiphenyl	362541	329576	-9.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.297	-0.016	8901	20.6	1	9.448	-0.013	6021	32.8
Aroclor-1254	2	9.371	-0.021	3315	19.7	2	9.966	-0.011	4614	31.2
Aroclor-1254	3	9.664	-0.021	5958	21.8	3	10.145	0.015	7800	24.6
Aroclor-1254	4	9.796	-0.023	11353	21.3	4	10.369	-0.009	19150	58.3
Aroclor-1254	5	10.247	0.072	9178	25.1	5	10.563	-0.013	13815	87.1
	Total Col1Ave (5 peaks):				21.7	Total Col2Ave (5 peaks):				46.8 RPD = 73*
	Corrected Ave (4 peaks):				20.8	Corrected Ave (4 peaks):				36.7 RPD = 55*
Aroclor-1260	1	11.042	-0.014	22894	155.8	1	11.653	-0.010	13314	76.5
Aroclor-1260	2	11.356	-0.016	13042	85.8	2	11.913	-0.013	33949	77.8
Aroclor-1260	3	11.727	-0.019	31572	79.1	3	12.432	-0.011	21464	184.6
Aroclor-1260	4	12.127	-0.023	16516	81.2	4	12.496	-0.012	30791	105.8
Aroclor-1260	5	12.243	-0.013	18527	222.5	NS	---			----
	Total Col1Ave (5 peaks):				124.9	Total Col2Ave (4 peaks):				111.2 RPD = 12
	Corrected Ave (4 peaks):				100.5	Corrected Ave (3 peaks):				86.7 RPD = 15
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 806793 Col1 Total PCB = 0.2 ppm*

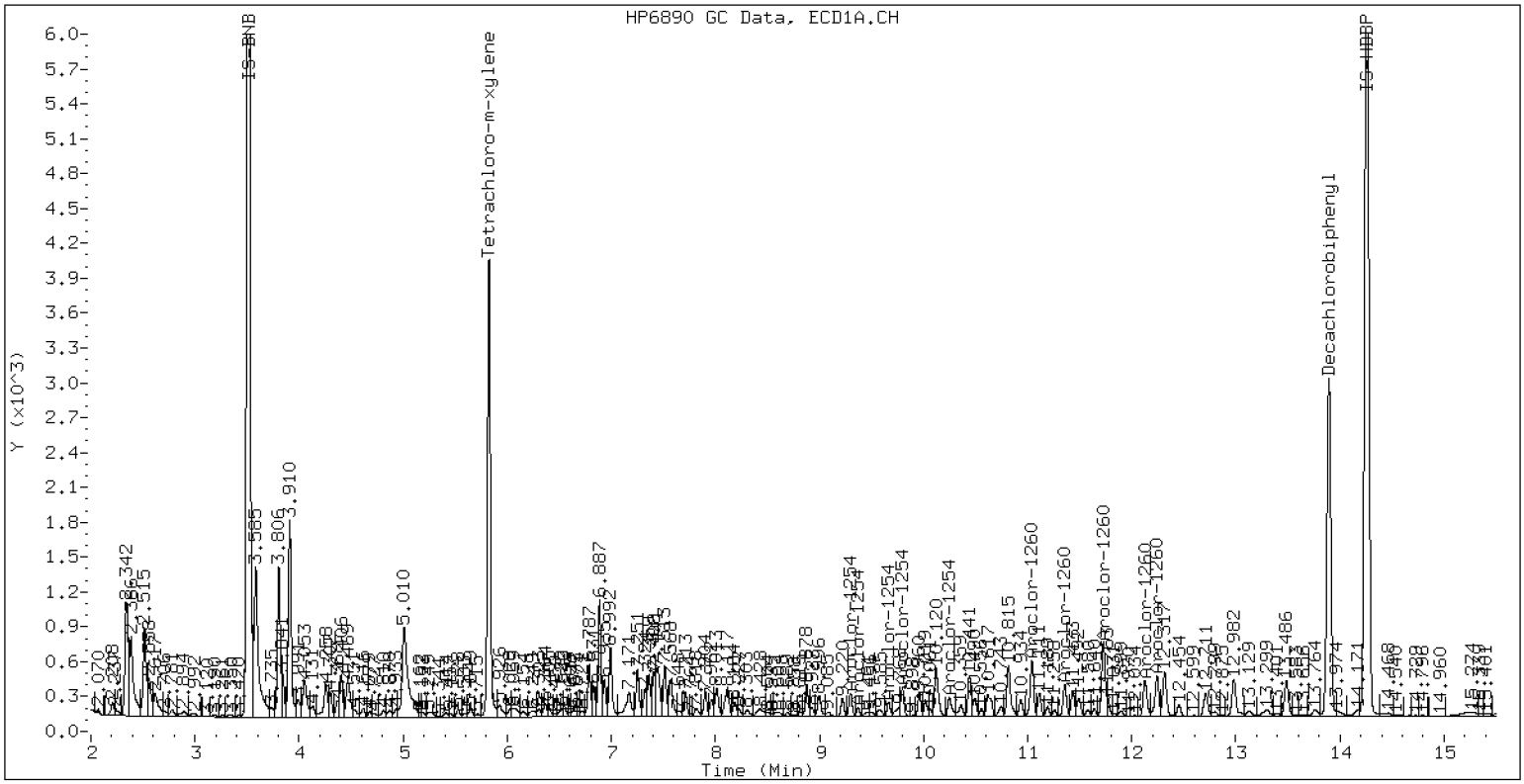
Total PCB Area Col2 (5.810 - 14.028) = 650094 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

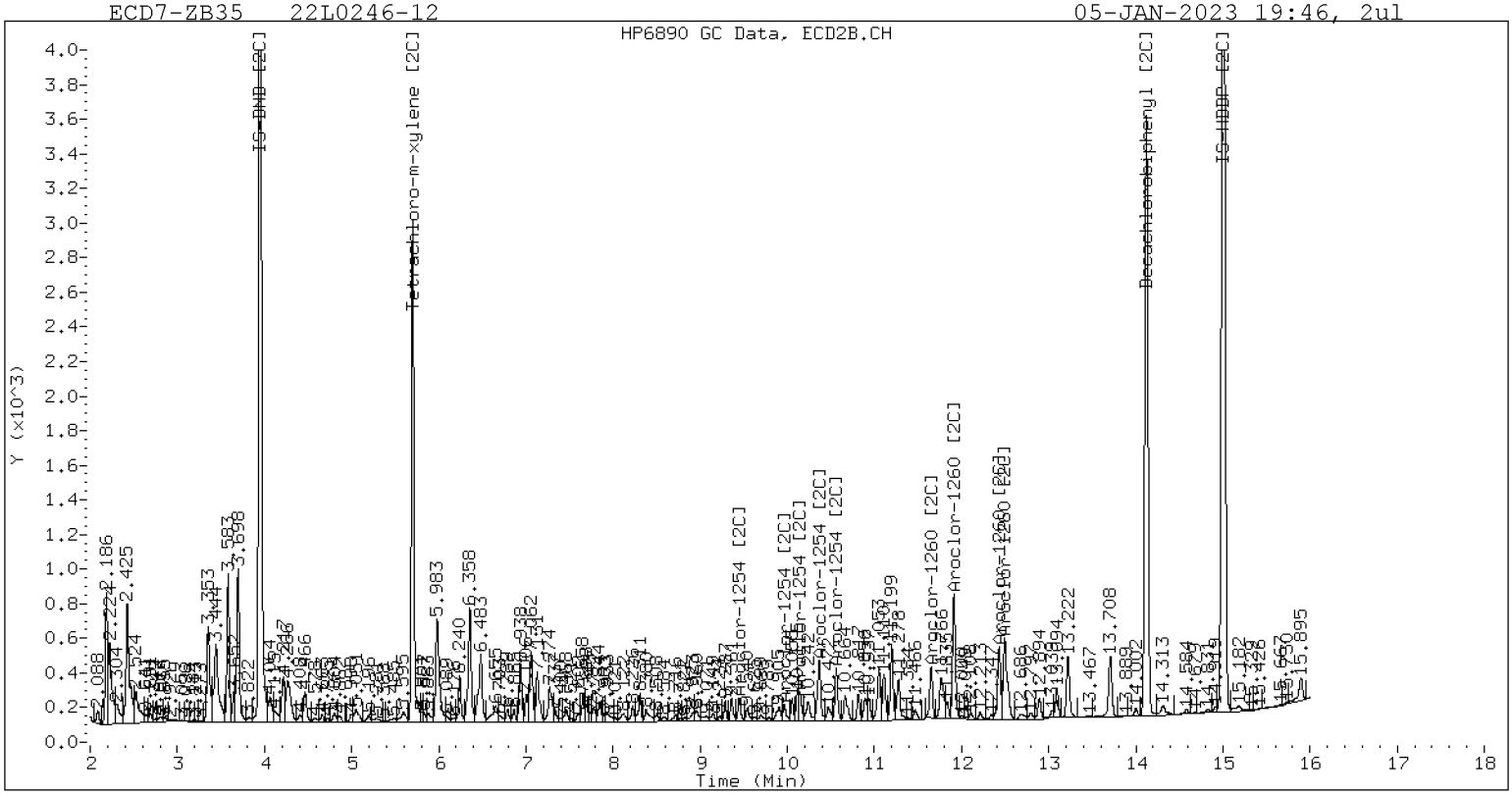
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-12 05-JAN-2023 19:46, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-12 05-JAN-2023 19:46, 2ul

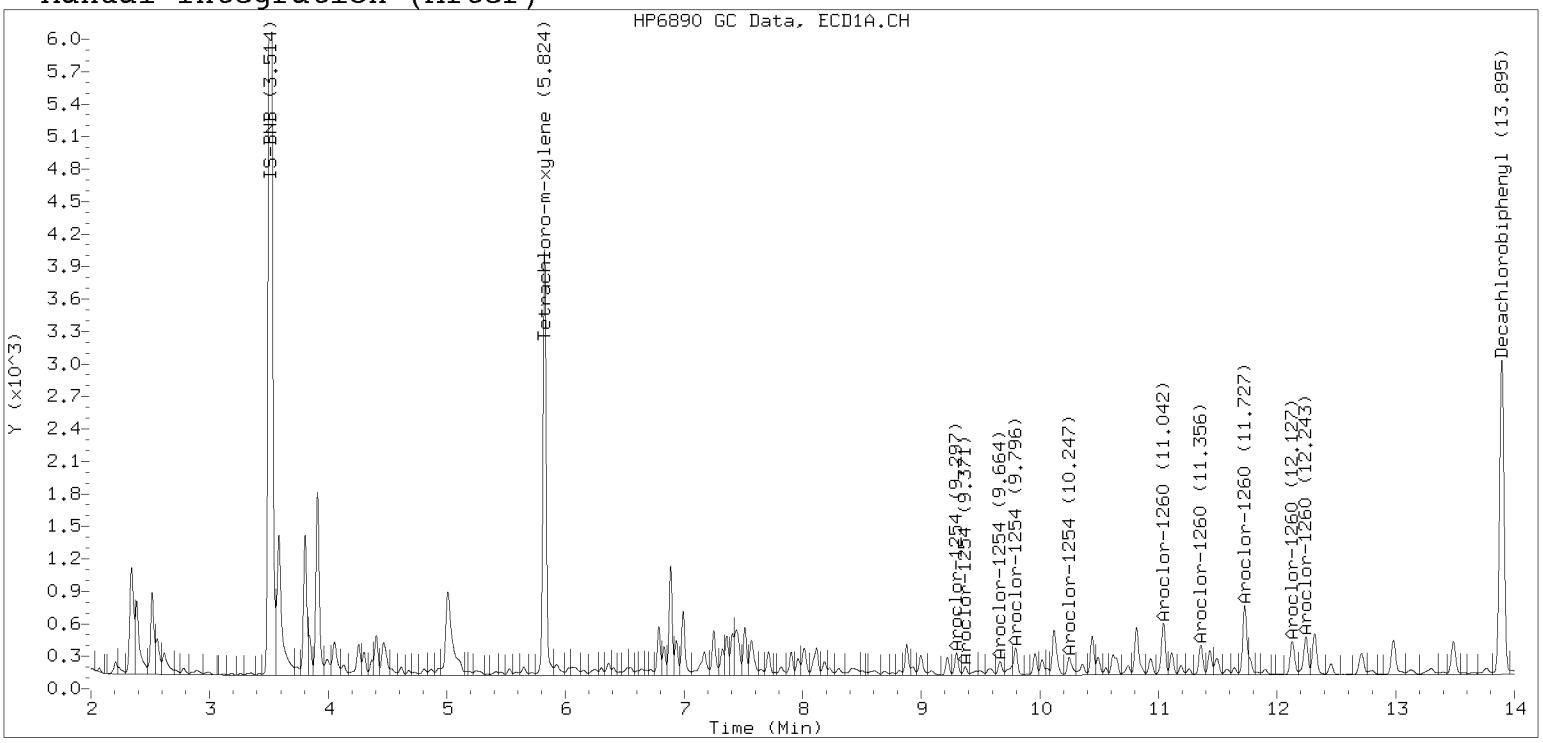


ZB-35 Manual Integration: NO

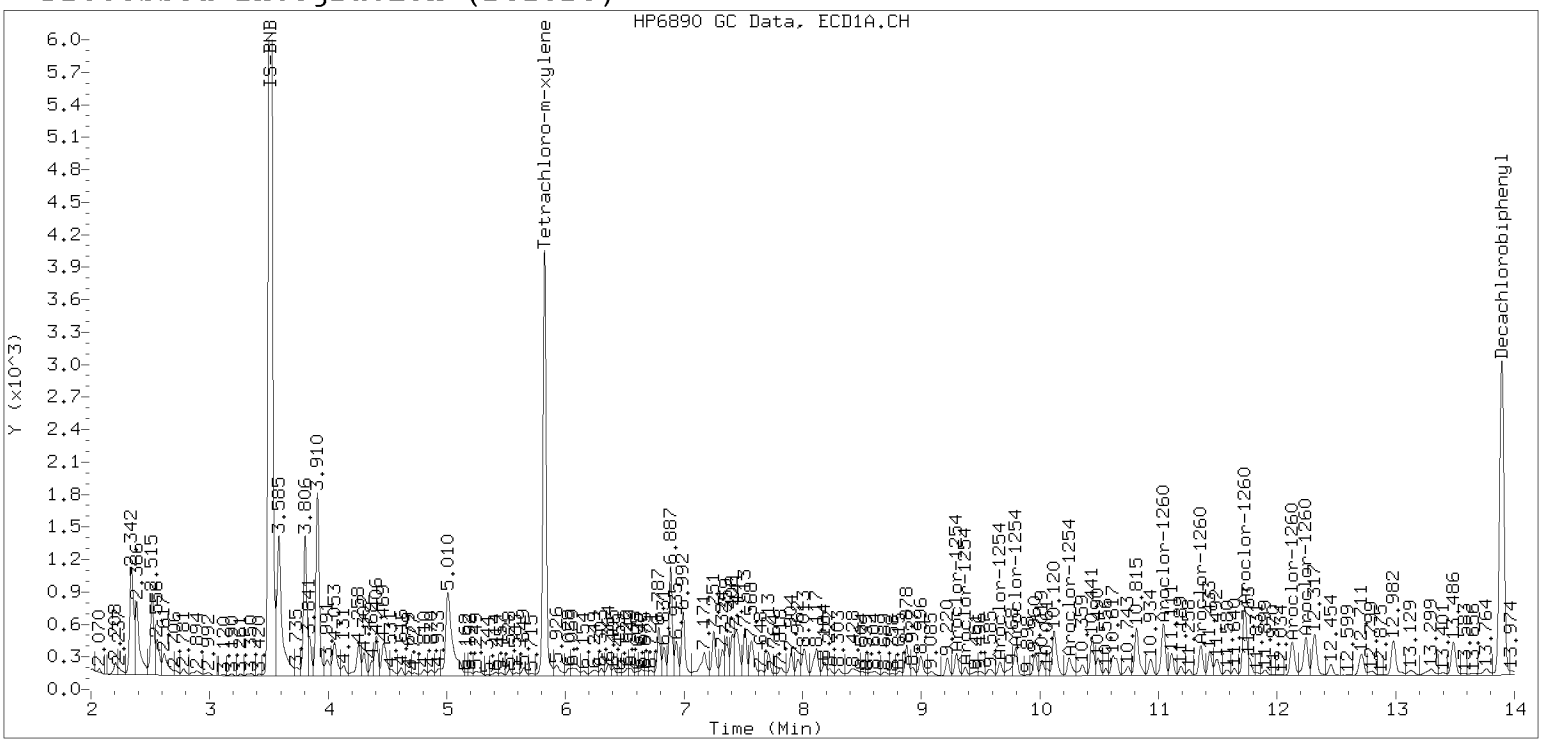
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052322ECD7.D Injection Date: 05-JAN-2023 19:46

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-13 C	File ID:	01052323ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 20:07
% Solids:	53.56	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.34 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9994*	*9.05*	*113*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9994*	*4.46*	*55.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052323ECD7.D
Data file 2: /230105.b/230105.b/01052323ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-13
Client ID:
Injection Date: 05-JAN-2023 20:07
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.008	164396	5.702	-0.008	126260	22.3	31.3	33.8	Tetrachloro-m-xylene
13.895	-0.009	162673	14.122	-0.005	182330	45.2	39.4	13.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	520303	16.2
Hexabromobiphenyl	798898	392321	-50.9 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	293813	18.0
Hexabromobiphenyl	362541	326273	-10.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 666984 Col1 Total PCB = 0.1 ppm*

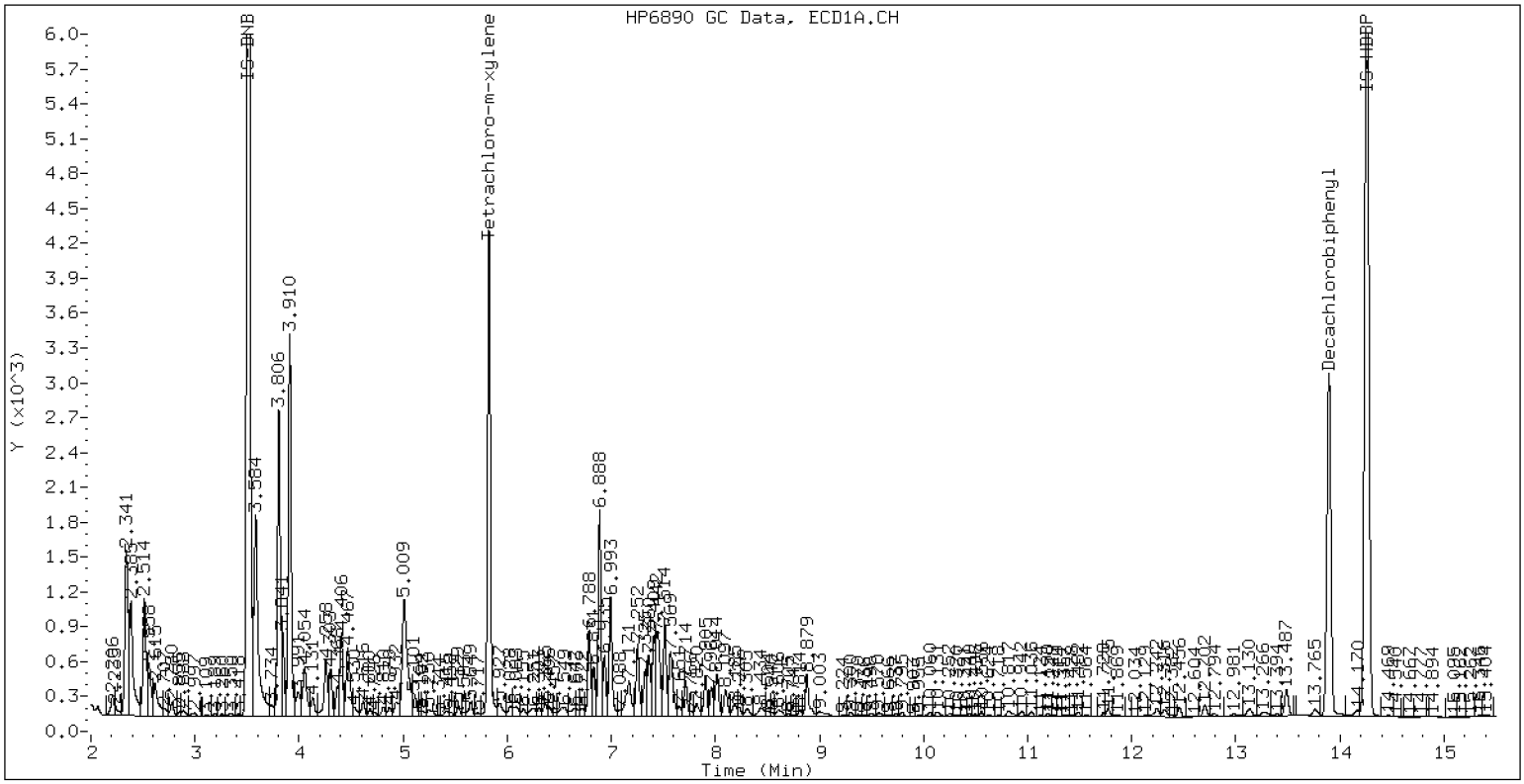
Total PCB Area Col2 (5.810 - 14.028) = 485130 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

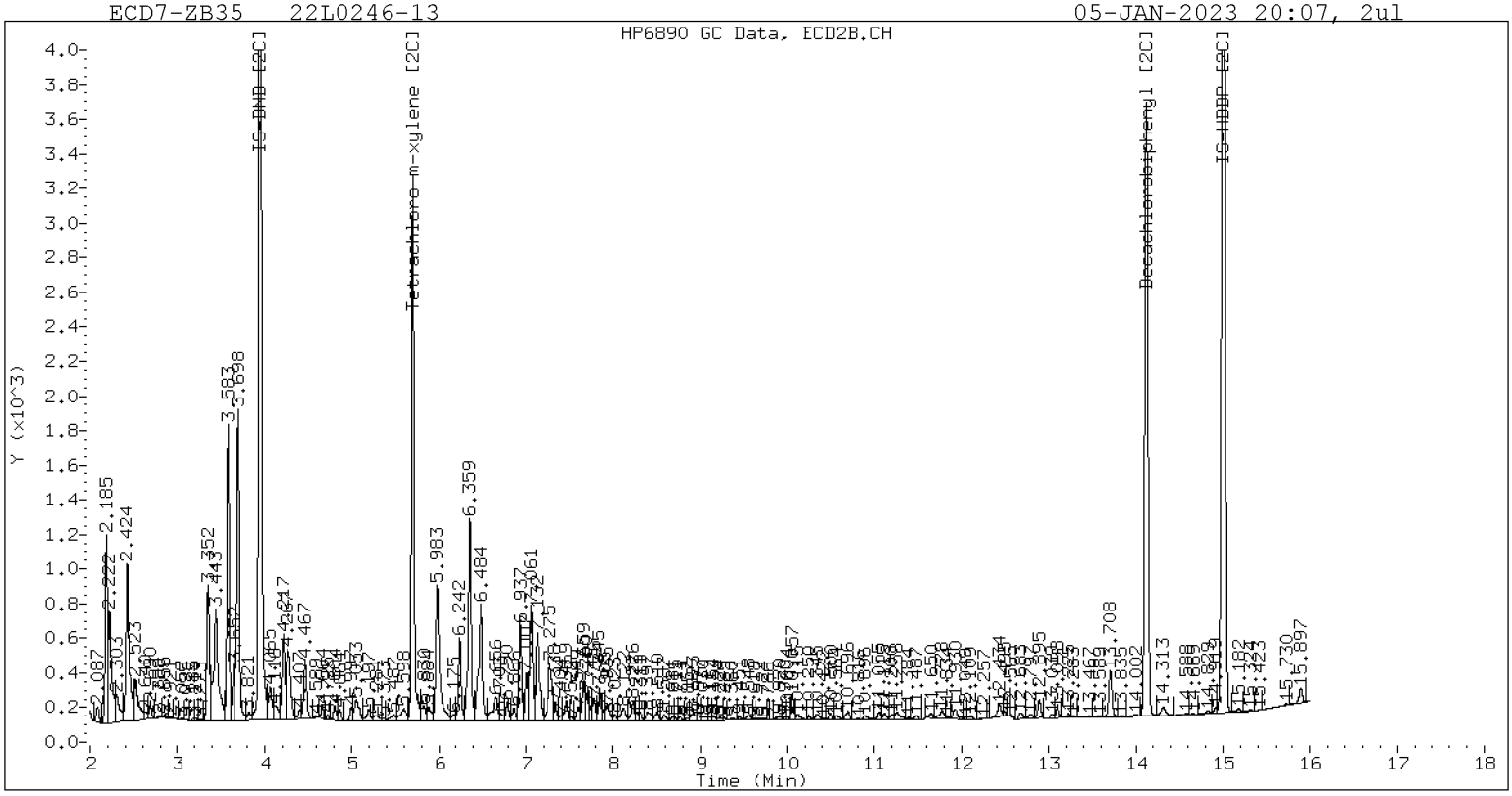
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-13 05-JAN-2023 20:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-13 05-JAN-2023 20:07, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT810G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-14 C	File ID:	01052324ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 20:28
% Solids:	64.07	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.57 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9754*	*8.95*	*112*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9754*	*5.19*	*65.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052324ECD7.D
Data file 2: /230105.b/230105.b/01052324ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-14
Client ID:
Injection Date: 05-JAN-2023 20:28
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	173308	5.703	-0.007	131846	26.0	32.7	22.9	Tetrachloro-m-xylene
13.895	-0.009	176199	14.122	-0.005	192760	44.9	40.1	11.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470248	5.0
Hexabromobiphenyl	798898	428095	-46.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	293966	18.0
Hexabromobiphenyl	362541	338977	-6.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 440670 Col1 Total PCB = 0.1 ppm*

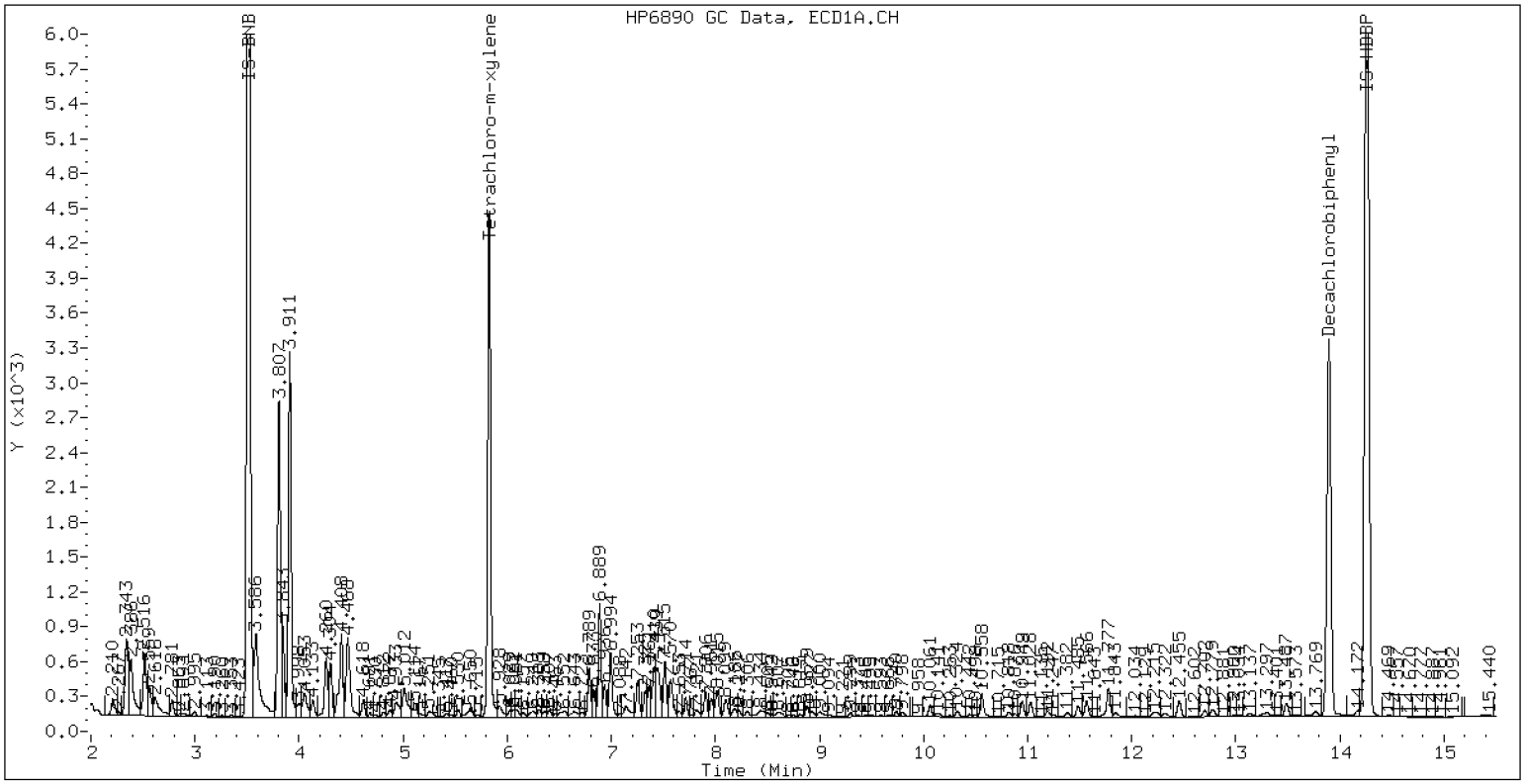
Total PCB Area Col2 (5.810 - 14.028) = 317118 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

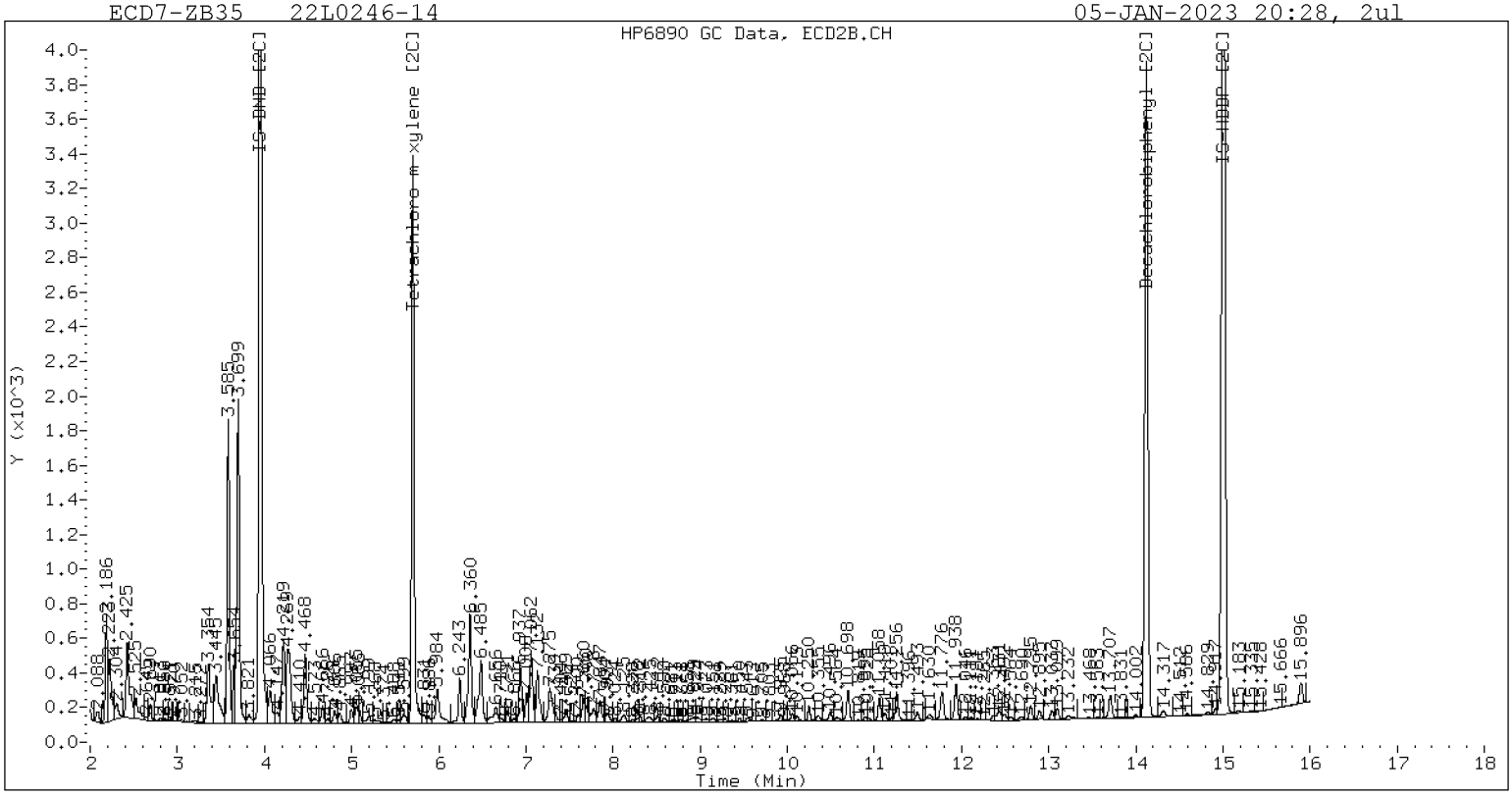
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-14 05-JAN-2023 20:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-14 05-JAN-2023 20:28, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-15 B	File ID:	01052325ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 20:49
% Solids:	57.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.89 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	20.9	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	30.4	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	28.1	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9810*	*8.45*	*106*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9810*	*5.48*	*68.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9810*	*7.71*	*96.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9810*	*6.55*	*82.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052325ECD7.D
Data file 2: /230105.b/230105.b/01052325ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-15
Client ID:
Injection Date: 05-JAN-2023 20:49
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	193396	5.704	-0.006	140714	27.4	32.8	17.8	Tetrachloro-m-xylene
13.895	-0.009	181700	14.123	-0.005	194172	42.4	38.7	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	497192	11.1
Hexabromobiphenyl	798898	467954	-41.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	312848	25.6
Hexabromobiphenyl	362541	353749	-2.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.410	-0.013	21376	100.0	1	8.313	-0.009	14543	113.8
Aroclor-1248	2	8.579	-0.020	18430	67.5	2	8.718	-0.008	12850	95.6
Aroclor-1248	3	8.997	-0.019	39876	81.2	3	9.150	-0.023	17556	107.4
Aroclor-1248	4	9.299	-0.013	40755	169.4	4	9.546	-0.047	14052	73.2
		Total Col1Ave (4 peaks):			104.5	Total Col2Ave (4 peaks):				97.5 RPD = 7
		Corrected Ave (3 peaks):			82.9	Corrected Ave (3 peaks):				92.1 RPD = 10
Aroclor-1254	1	9.299	-0.014	40755	93.1	1	9.449	-0.012	27970	138.7
Aroclor-1254	2	9.374	-0.018	16730	98.3	2	9.967	-0.011	13650	84.2
Aroclor-1254	3	9.673	-0.011	36737	132.9	3	10.115	-0.015	43731	125.5
Aroclor-1254	4	9.799	-0.020	62663	116.3	4	10.363	-0.015	62463	173.0
Aroclor-1254	5	10.130	-0.045	43878	118.8	5	10.564	-0.012	42015	241.3
		Total Col1Ave (5 peaks):			111.9	Total Col2Ave (5 peaks):				152.5 RPD = 31
		Corrected Ave (4 peaks):			106.6	Corrected Ave (4 peaks):				130.3 RPD = 20
Aroclor-1260	1	11.044	-0.012	24749	145.3	1	11.653	-0.009	23740	127.1
Aroclor-1260	2	11.359	-0.013	21281	120.8	2	11.913	-0.013	52601	112.3
Aroclor-1260	3	11.728	-0.018	54432	117.6	3	12.433	-0.011	23884	191.4
Aroclor-1260	4	12.129	-0.021	34538	146.5	4	12.498	-0.010	41132	131.7
Aroclor-1260	5	12.243	-0.013	17899	185.5	NS	---			----
		Total Col1Ave (5 peaks):			143.1	Total Col2Ave (4 peaks):				140.6 RPD = 2
		Corrected Ave (4 peaks):			132.5	Corrected Ave (3 peaks):				123.7 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 2316336 Col1 Total PCB = 0.5 ppm*

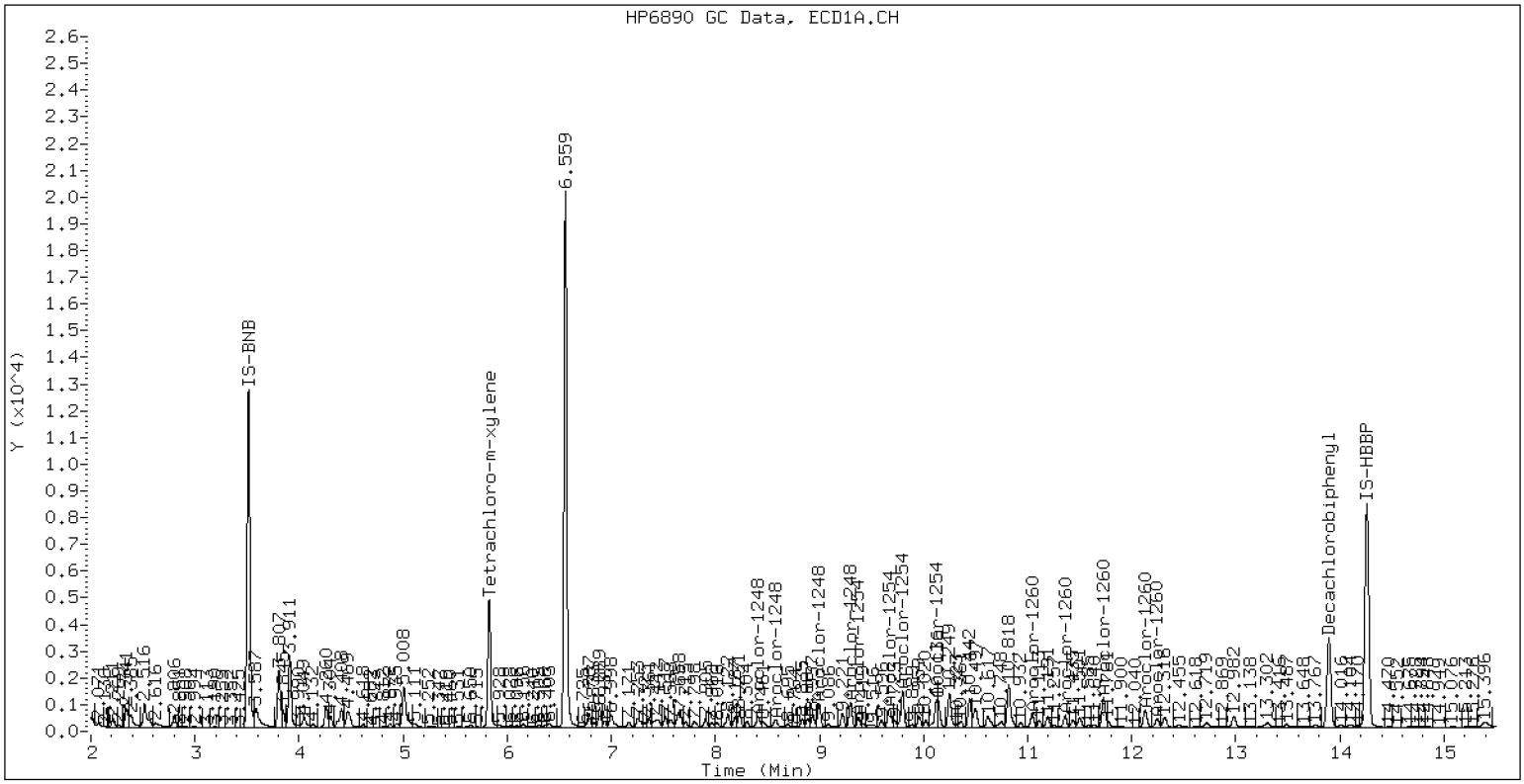
Total PCB Area Col2 (5.810 - 14.028) = 1818621 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

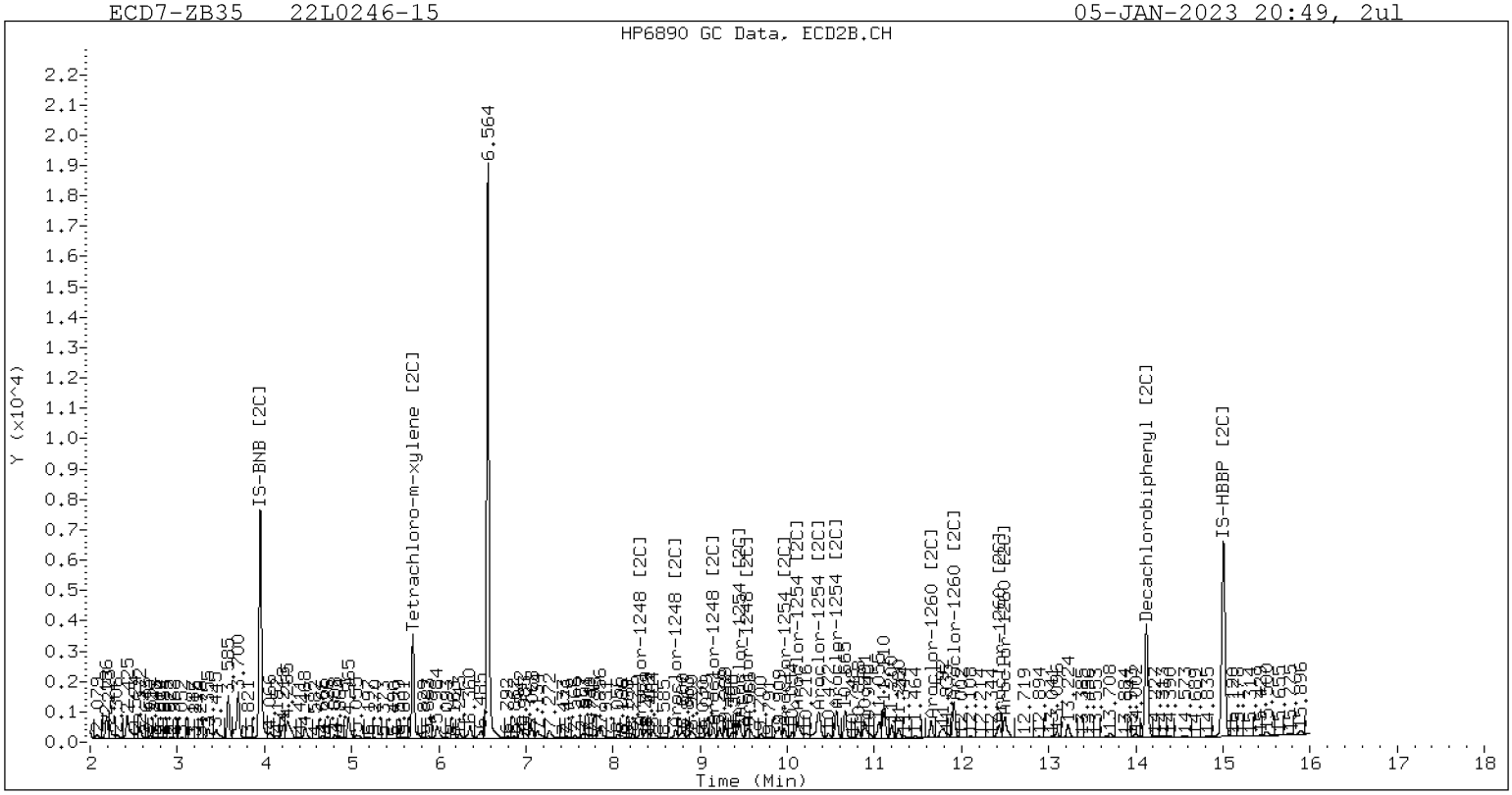
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-15 05-JAN-2023 20:49, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-15 05-JAN-2023 20:49, 2ul

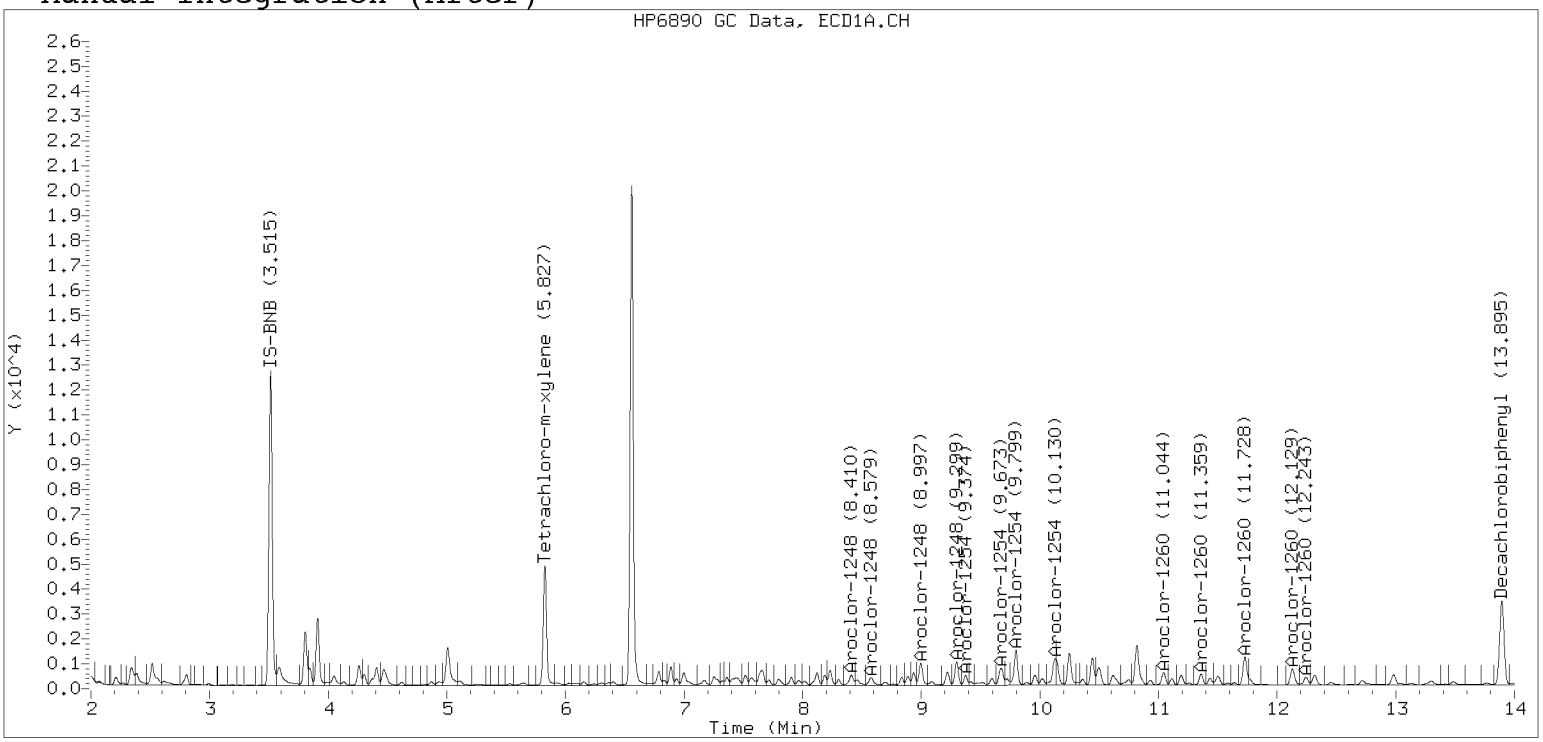


ZB-35 Manual Integration: YES

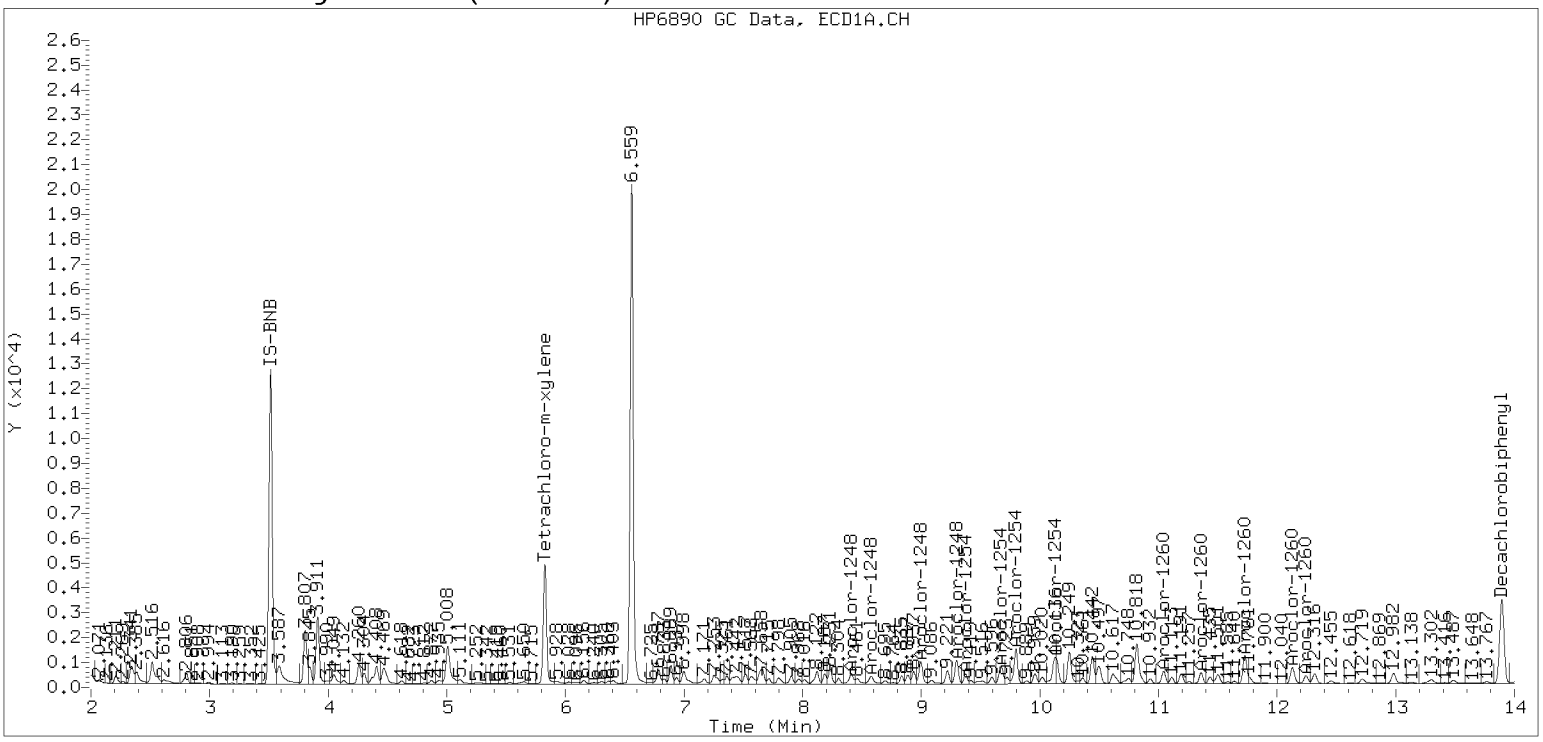
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052325ECD7.D Injection Date: 05-JAN-2023 20:49

Manual Integration (After)



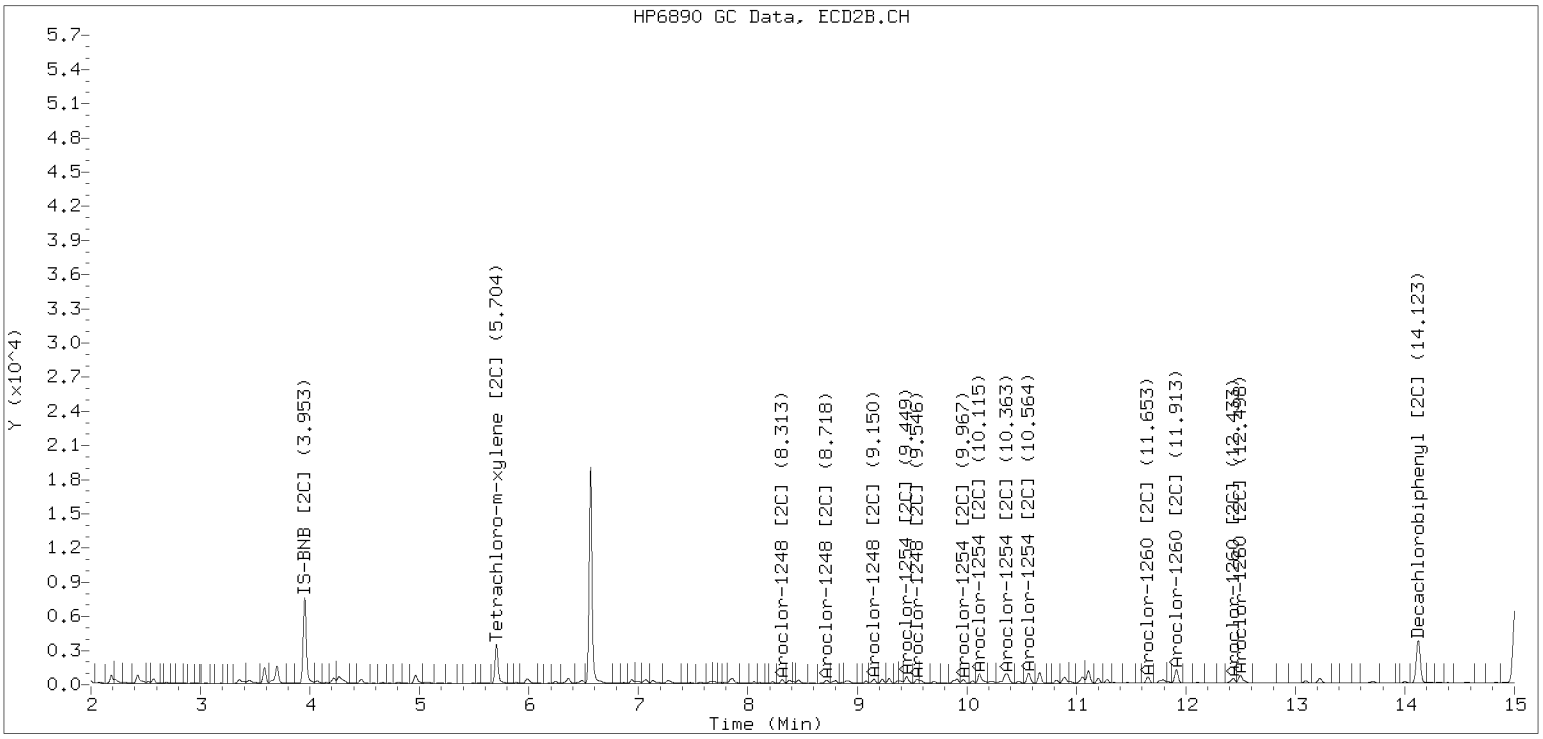
Processed Integration (Before)



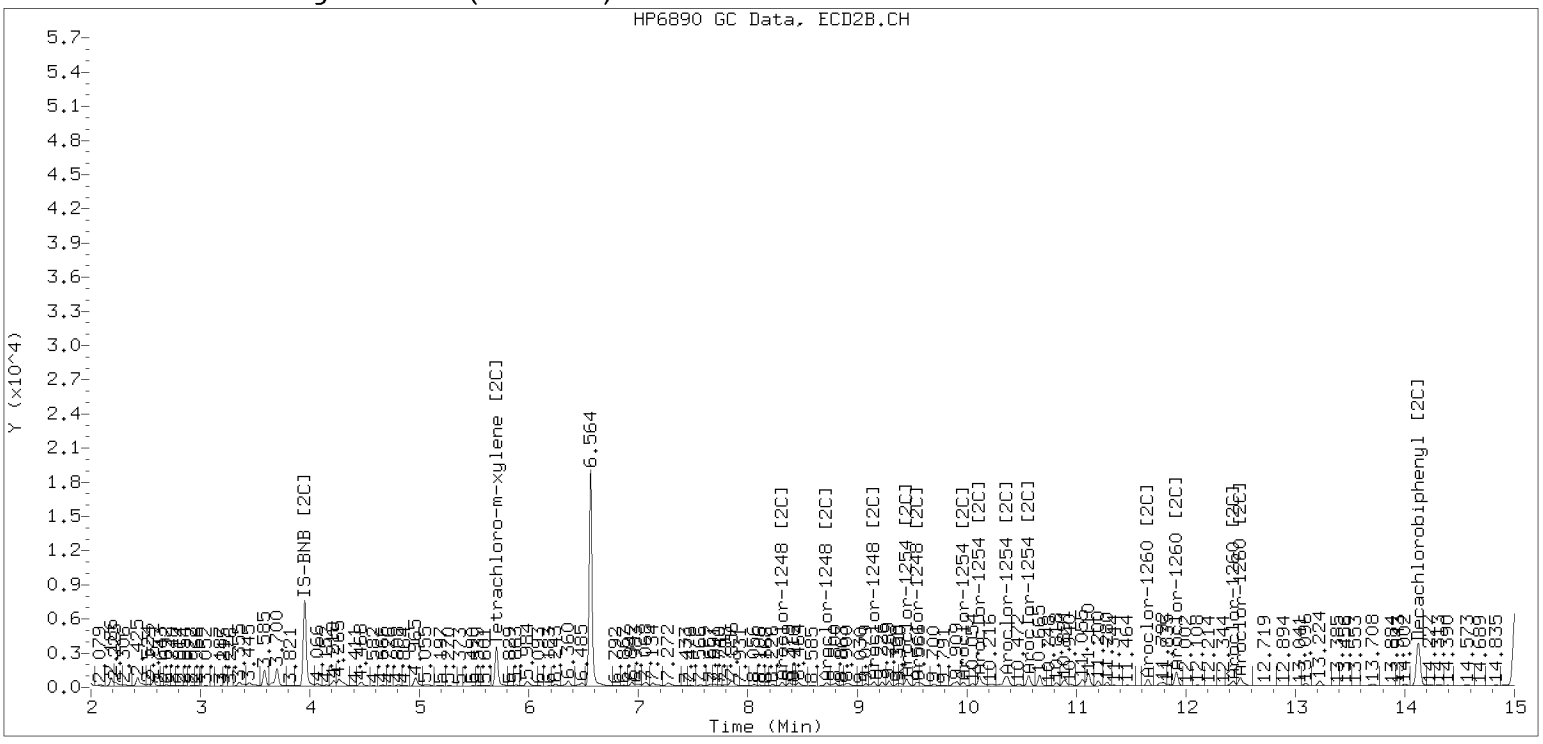
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052325ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-16 B	File ID:	01052326ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 21:10
% Solids:	58.45	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.89 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	3.9	1.5	3.9	U
11104-28-2	Aroclor 1221	1	1	3.9	1.5	3.9	U
11141-16-5	Aroclor 1232	1	1	3.9	1.5	3.9	U
53469-21-9	Aroclor 1242	1	1	3.9	1.5	3.9	U
12672-29-6	Aroclor 1248	1	1	42.4	1.5	3.9	
11097-69-1	Aroclor 1254	2	1	74.0	1.5	3.9	
11096-82-5	Aroclor 1260	2	1	74.1	0.6	3.9	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.8157*	*8.35*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.8157*	*5.22*	*66.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.8157*	*7.77*	*99.4*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.8157*	*6.24*	*79.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052326ECD7.D
Data file 2: /230105.b/230105.b/01052326ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-16
Client ID:
Injection Date: 05-JAN-2023 21:10
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	181654	5.704	-0.006	130794	26.7	32.0	17.9	Tetrachloro-m-xylene
13.893	-0.011	168996	14.122	-0.005	187721	42.7	39.8	7.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	479993	7.2
Hexabromobiphenyl	798898	431651	-46.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298553	19.9
Hexabromobiphenyl	362541	332548	-8.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.015	36678	177.7	1	8.312	-0.009	25690	210.6
Aroclor-1248	2	8.578	-0.021	28062	106.5	2	8.718	-0.009	22099	172.3
Aroclor-1248	3	8.995	-0.020	85840	181.1	3	9.149	-0.023	32703	209.6
Aroclor-1248	4	9.297	-0.014	93399	402.2	4	9.542	-0.050	53233	290.6
		Total Col1Ave (4 peaks):			216.9		Total Col2Ave (4 peaks):			220.8 RPD = 2
		Corrected Ave (3 peaks):			155.1		Corrected Ave (3 peaks):			197.5 RPD = 24
Aroclor-1254	1	9.297	-0.016	93399	221.0	1	9.448	-0.013	63974	332.3
Aroclor-1254	2	9.373	-0.019	40332	245.4	2	9.966	-0.011	30633	197.9
Aroclor-1254	3	9.666	-0.018	64462	241.5	3	10.114	-0.016	112908	339.4
Aroclor-1254	4	9.797	-0.022	134504	258.5	4	10.364	-0.014	138042	400.7
Aroclor-1254	5	10.128	-0.047	177556	497.8	5	10.563	-0.012	103515	623.0
		Total Col1Ave (5 peaks):			292.8		Total Col2Ave (5 peaks):			378.7 RPD = 26
		Corrected Ave (4 peaks):			241.6		Corrected Ave (4 peaks):			317.6 RPD = 27
Aroclor-1260	1	11.042	-0.014	65062	414.1	1	11.653	-0.010	67805	386.3
Aroclor-1260	2	11.358	-0.014	58025	357.1	2	11.913	-0.013	146624	332.9
Aroclor-1260	3	11.728	-0.018	162022	379.5	3	12.433	-0.010	52682	449.1
Aroclor-1260	4	12.128	-0.022	87247	401.2	4	12.496	-0.012	102627	349.5
Aroclor-1260	5	12.242	-0.014	39184	440.2	NS	---			----
		Total Col1Ave (5 peaks):			398.4		Total Col2Ave (4 peaks):			379.4 RPD = 5
		Corrected Ave (4 peaks):			388.0		Corrected Ave (3 peaks):			356.2 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 2743802 Col1 Total PCB = 0.6 ppm*

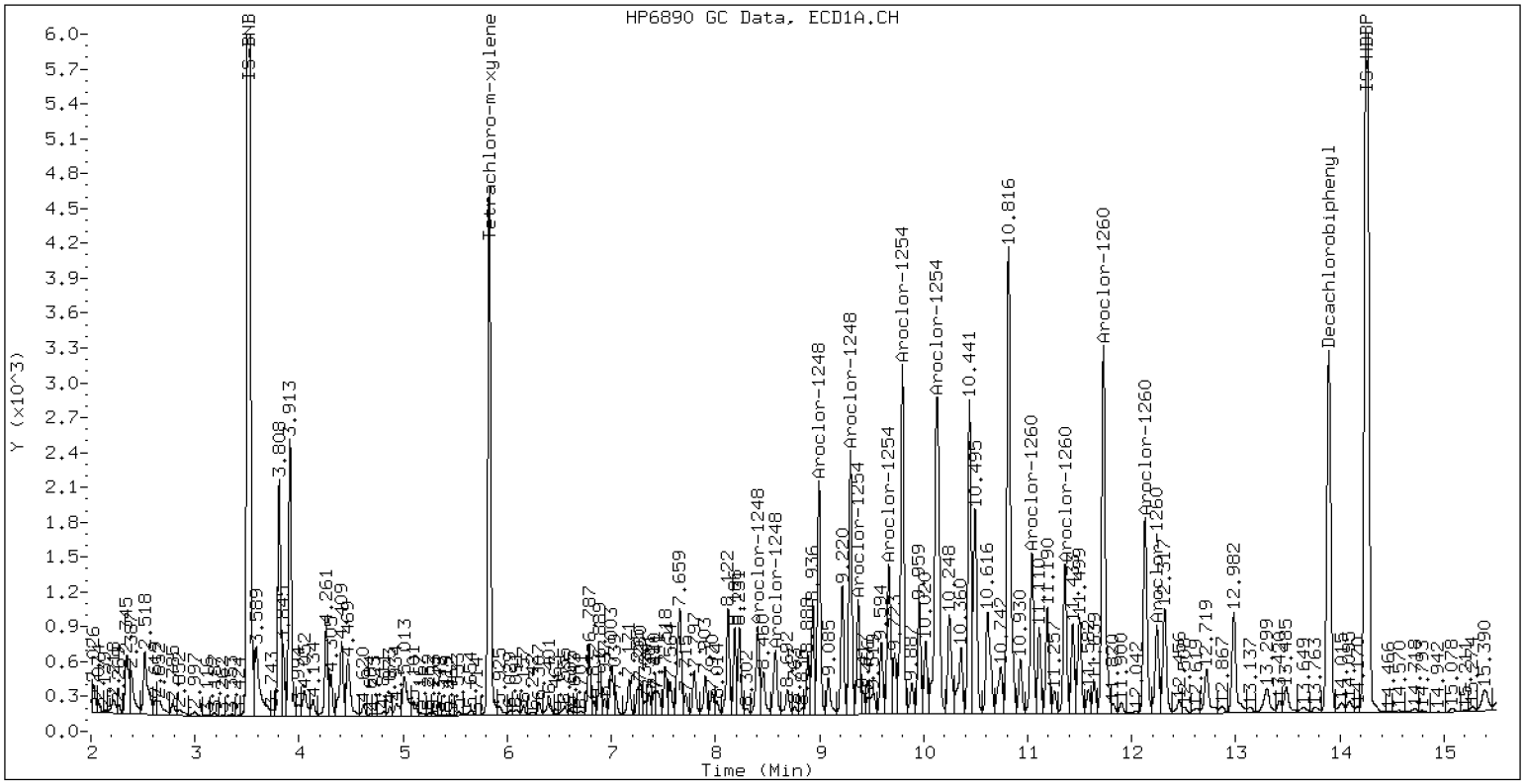
Total PCB Area Col2 (5.810 - 14.028) = 2130986 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

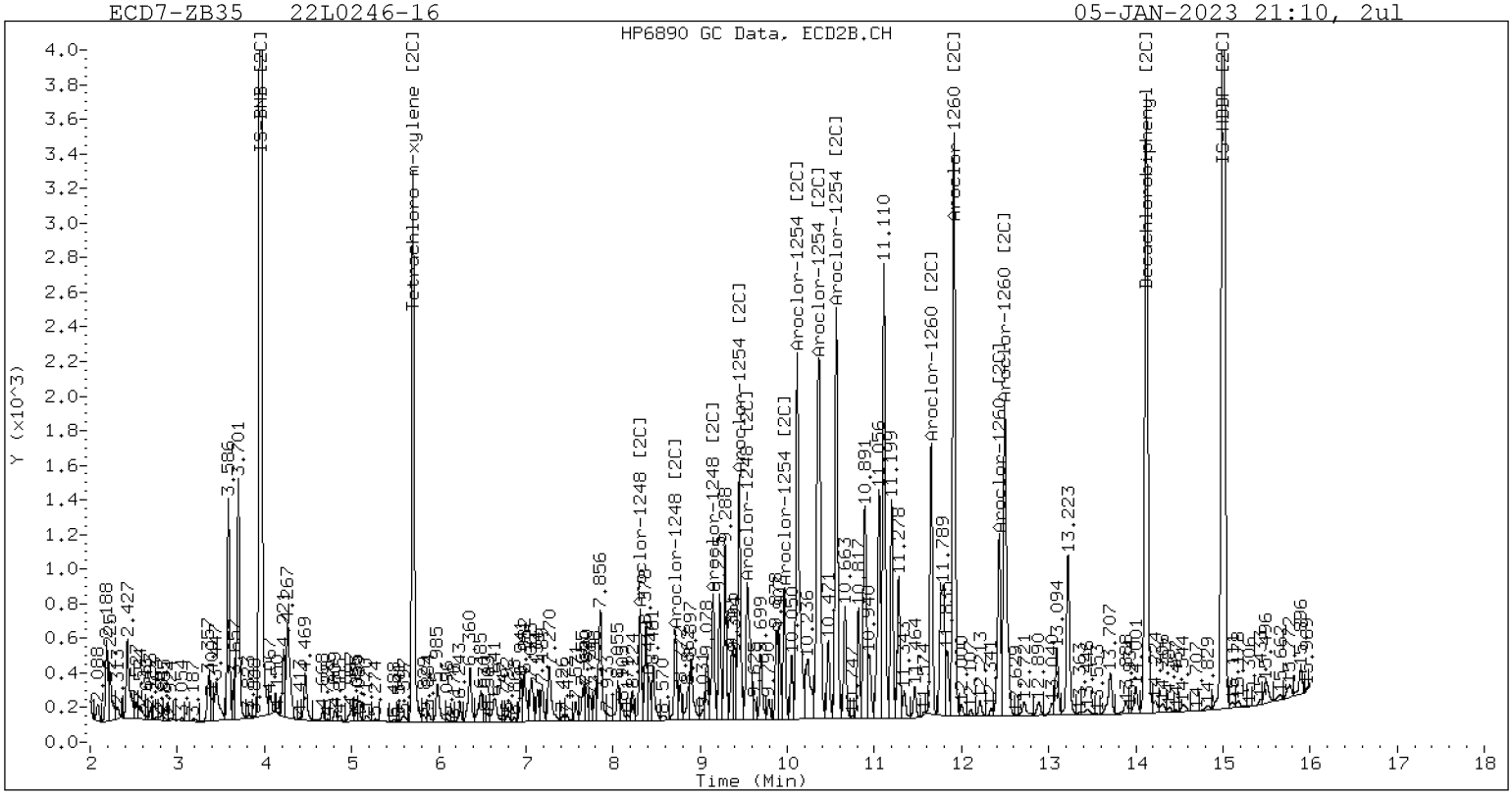
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-16 05-JAN-2023 21:10, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-16 05-JAN-2023 21:10, 2ul

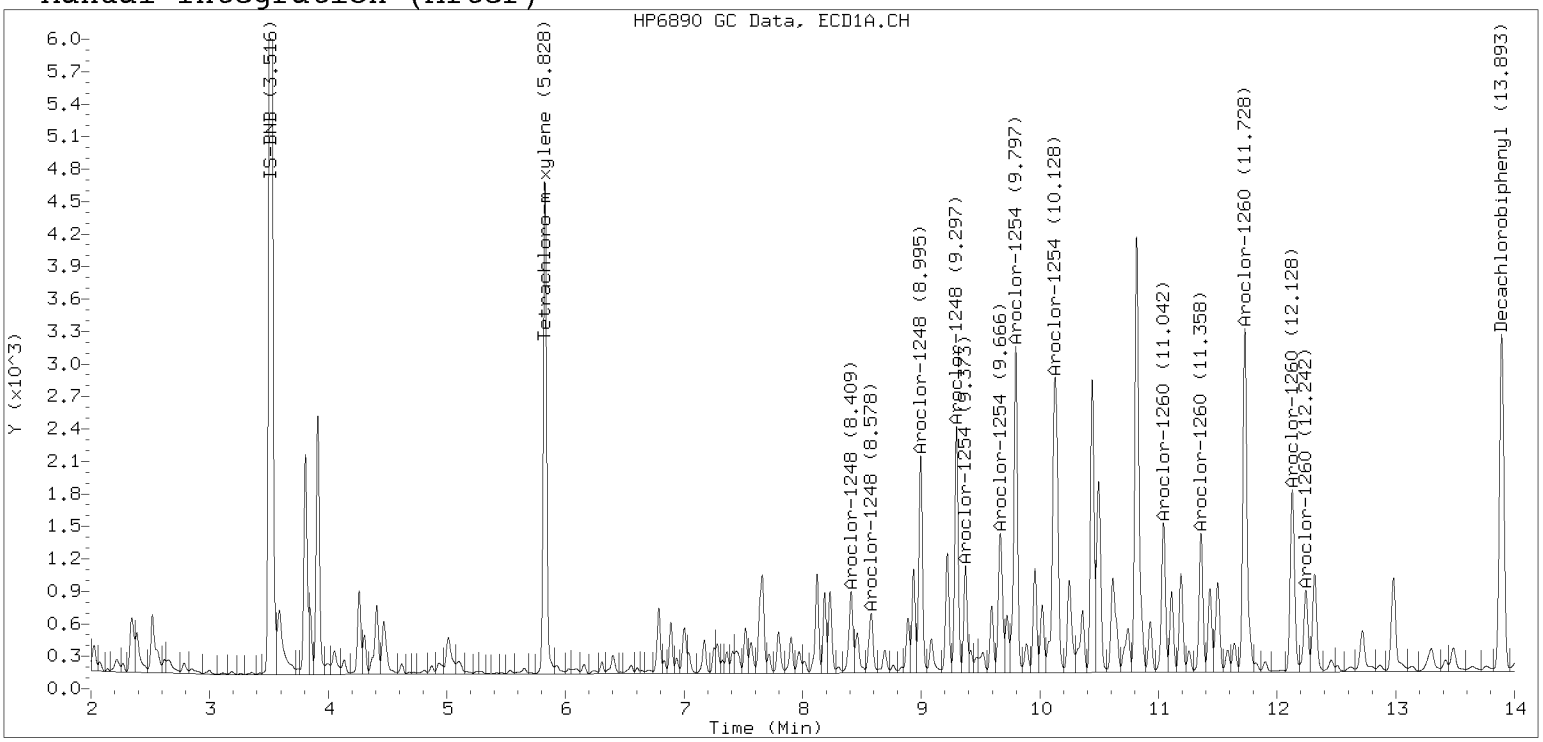


ZB-35 Manual Integration: YES

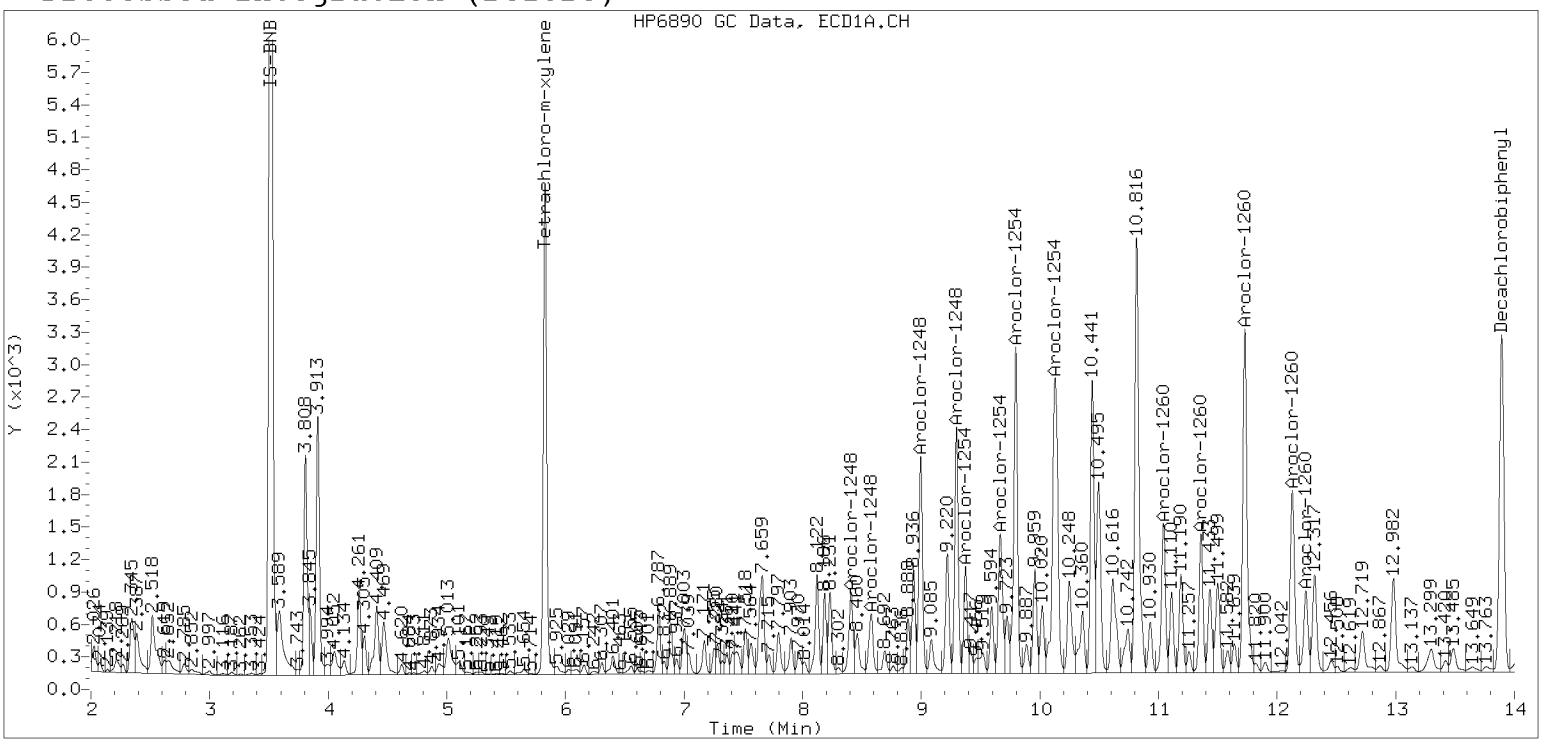
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052326ECD7.D Injection Date: 05-JAN-2023 21:10

Manual Integration (After)



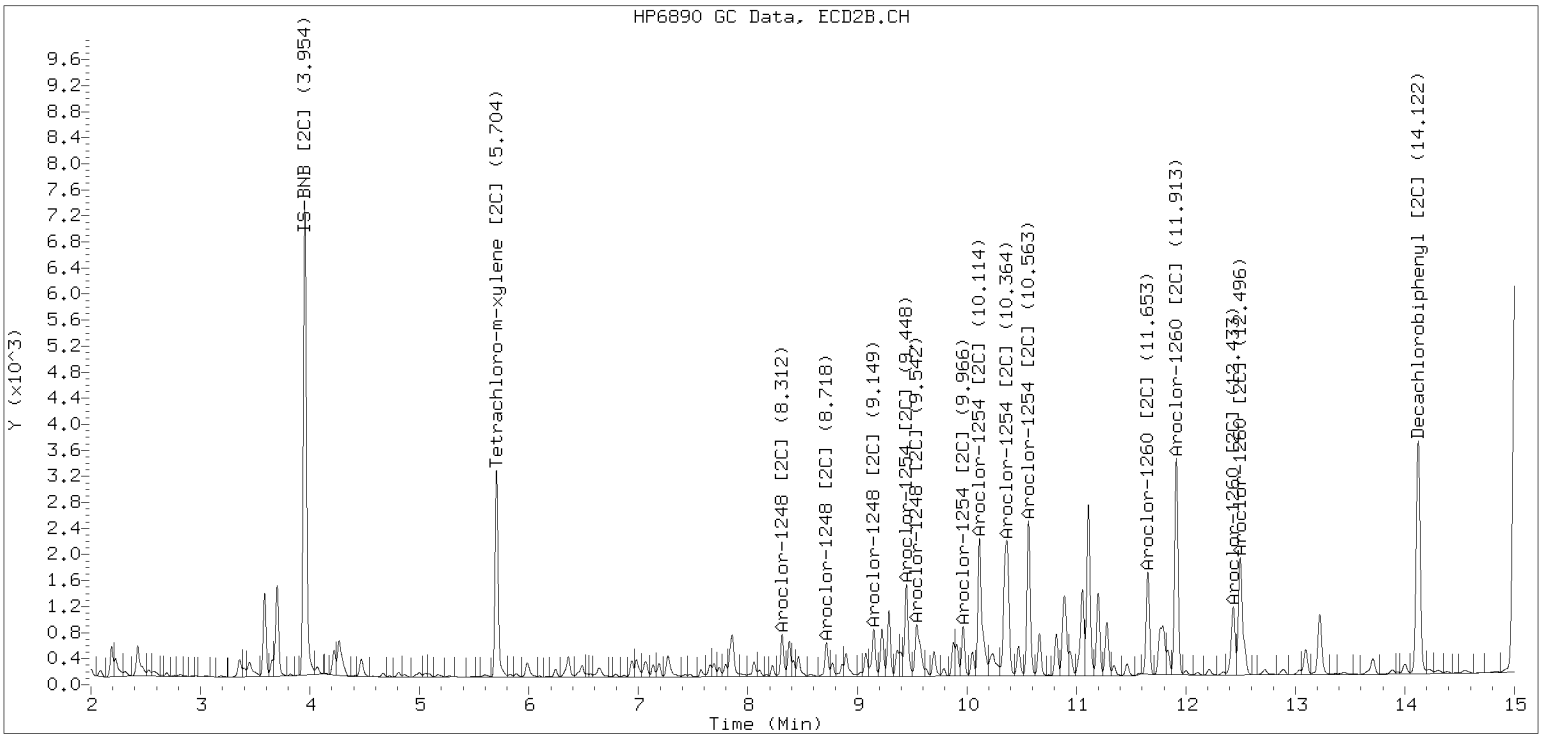
Processed Integration (Before)



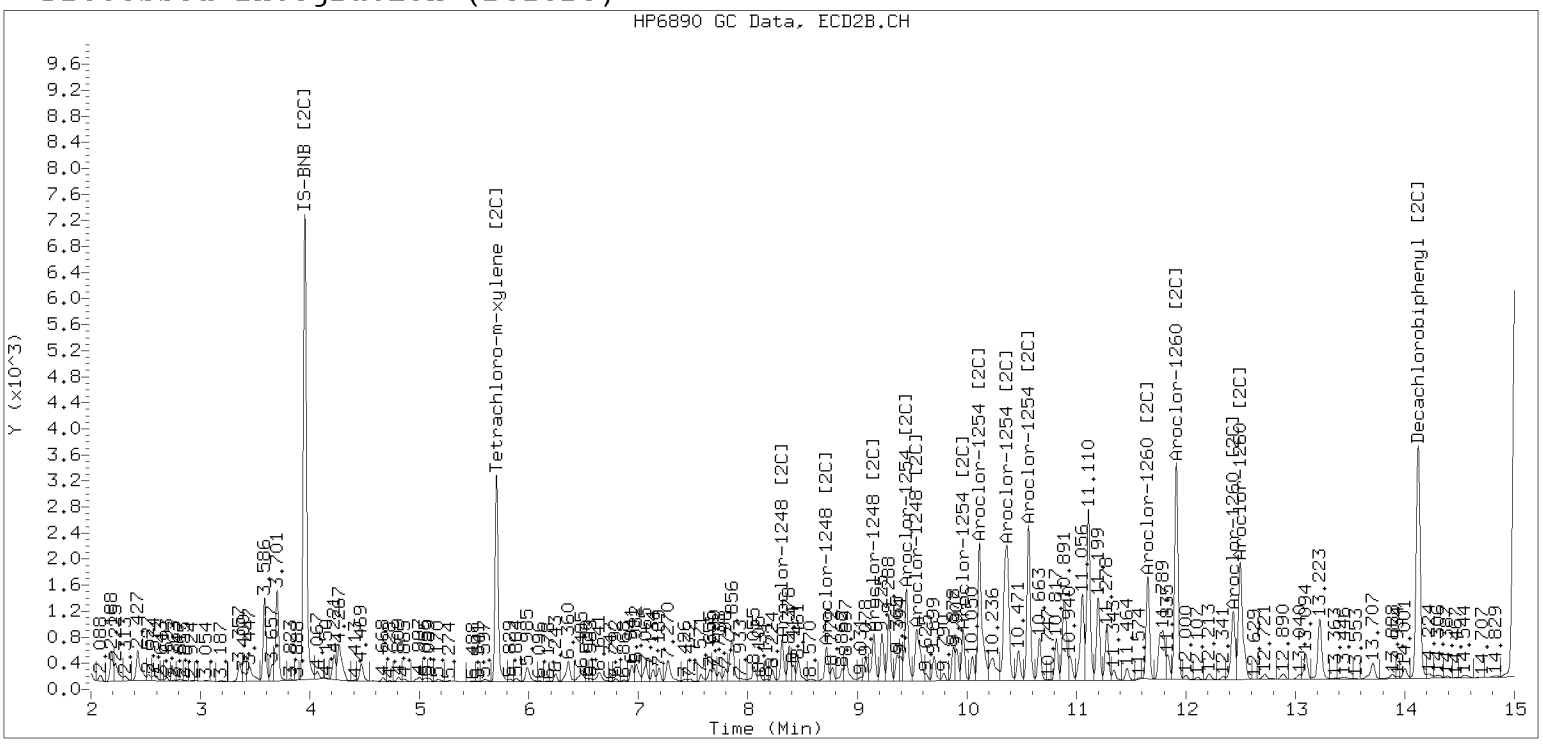
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052326ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-17 B	File ID:	01052327ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 21:31
% Solids:	56.26	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.39 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.2	1.6	4.2	U
11104-28-2	Aroclor 1221	1	1	4.2	1.6	4.2	U
11141-16-5	Aroclor 1232	1	1	4.2	1.6	4.2	U
53469-21-9	Aroclor 1242	1	1	4.2	1.6	4.2	U
12672-29-6	Aroclor 1248	1	1	73.1	1.6	4.2	
11097-69-1	Aroclor 1254	2	1	109	1.6	4.2	
11096-82-5	Aroclor 1260	2	1	79.5	0.6	4.2	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.3098*	*9.21*	*111*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.3098*	*5.89*	*70.8*	*44 - 120*	
Decachlorobiphenyl	*2*	*8.3098*	*8.59*	*103*	*40 - 126*	
Tetrachlorometaxylene	*2*	*8.3098*	*6.58*	*79.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052327ECD7.D
Data file 2: /230105.b/230105.b/01052327ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-17
Client ID:
Injection Date: 05-JAN-2023 21:31
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.006	183885	5.703	-0.007	130705	28.3	31.7	11.1	Tetrachloro-m-xylene
13.895	-0.009	172742	14.122	-0.006	193772	44.3	41.3	6.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458057	2.3
Hexabromobiphenyl	798898	425291	-46.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	301136	20.9
Hexabromobiphenyl	362541	330168	-8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.013	49466	251.2	1	8.312	-0.009	39175	318.4
Aroclor-1248	2	8.578	-0.021	47109	187.3	2	8.717	-0.009	36401	281.3
Aroclor-1248	3	8.995	-0.020	134965	298.4	3	9.148	-0.024	51878	329.6
Aroclor-1248	4	9.298	-0.013	148539	670.3	4	9.542	-0.050	81119	439.1
		Total Col1Ave (4 peaks):			351.8		Total Col2Ave (4 peaks):			342.1 RPD = 3
		Corrected Ave (3 peaks):			245.6		Corrected Ave (3 peaks):			309.8 RPD = 23
Aroclor-1254	1	9.298	-0.015	148539	368.3	1	9.448	-0.013	94524	486.8
Aroclor-1254	2	9.373	-0.019	64223	409.5	2	9.966	-0.012	46470	297.7
Aroclor-1254	3	9.665	-0.019	89212	350.2	3	10.115	-0.016	166575	496.5
Aroclor-1254	4	9.797	-0.022	199655	402.1	4	10.356	-0.022	196459	565.4
Aroclor-1254	5	10.133	-0.042	152629	448.4	5	10.563	-0.012	130777	780.3
		Total Col1Ave (5 peaks):			395.7		Total Col2Ave (5 peaks):			525.3 RPD = 28
		Corrected Ave (4 peaks):			382.5		Corrected Ave (4 peaks):			461.6 RPD = 19
Aroclor-1260	1	11.043	-0.013	65798	425.0	1	11.653	-0.010	79015	453.4
Aroclor-1260	2	11.359	-0.014	56322	351.8	2	11.914	-0.013	143548	328.2
Aroclor-1260	3	11.728	-0.018	151911	361.1	3	12.434	-0.010	47275	405.9
Aroclor-1260	4	12.128	-0.022	85617	399.6	4	12.496	-0.012	99994	343.0
Aroclor-1260	5	12.243	-0.013	38946	444.1	NS	---			----
		Total Col1Ave (5 peaks):			396.3		Total Col2Ave (4 peaks):			382.6 RPD = 4
		Corrected Ave (4 peaks):			384.4		Corrected Ave (3 peaks):			359.1 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.933 - 13.804) = 3424007 Col1 Total PCB = 0.8 ppm*

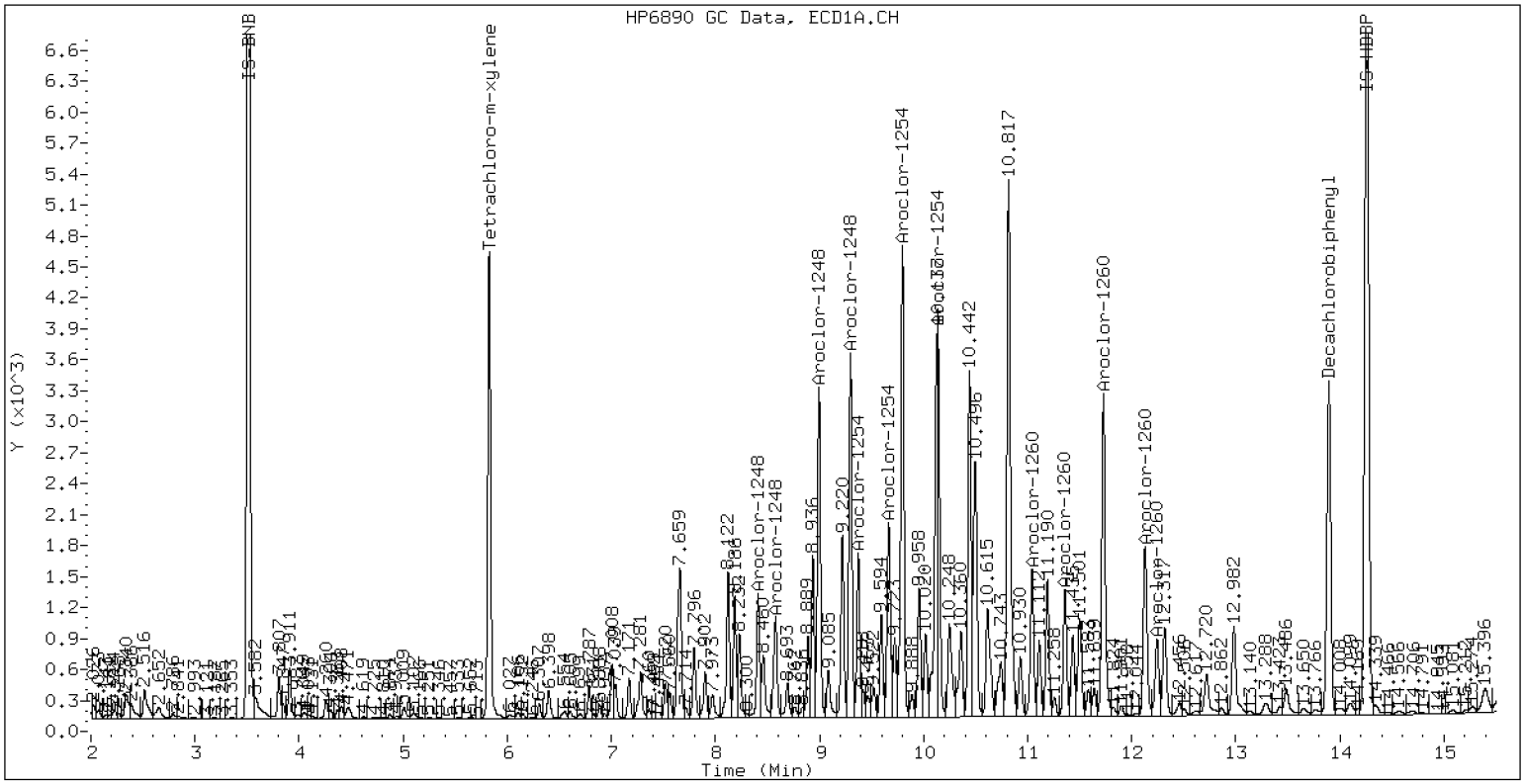
Total PCB Area Col2 (5.810 - 14.028) = 2619518 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

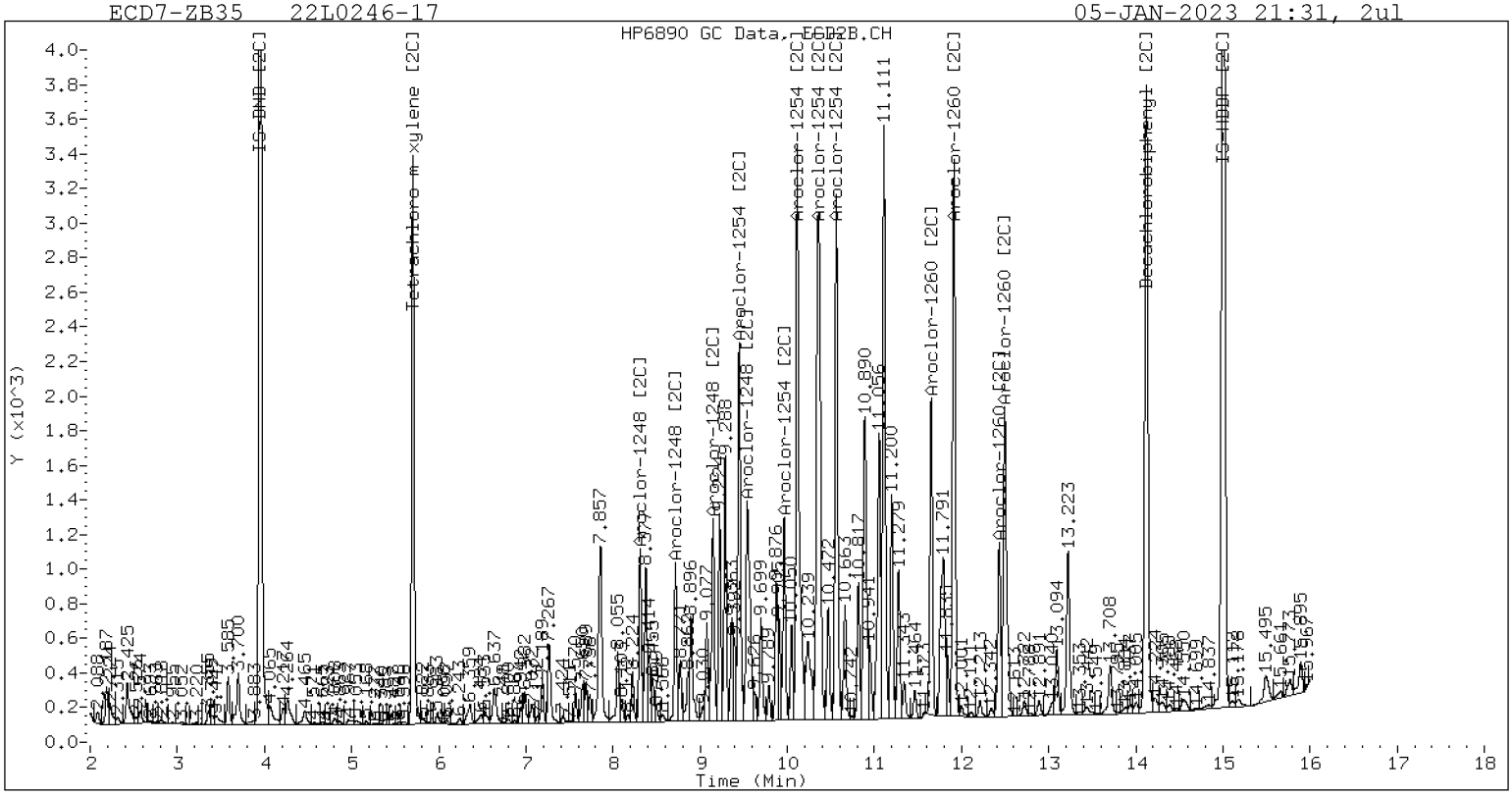
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-17 05-JAN-2023 21:31, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-17 05-JAN-2023 21:31, 2ul

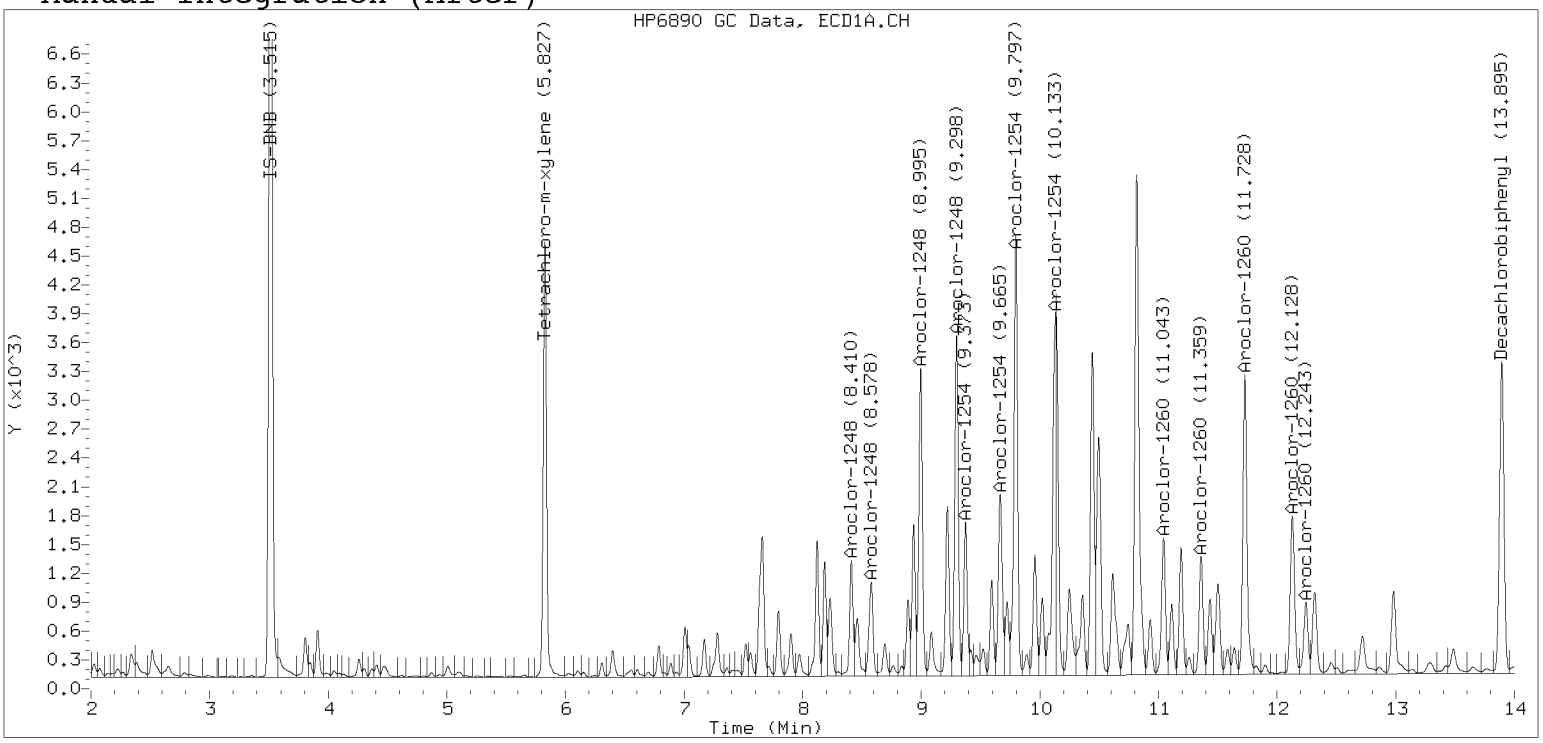


ZB-35 Manual Integration: YES

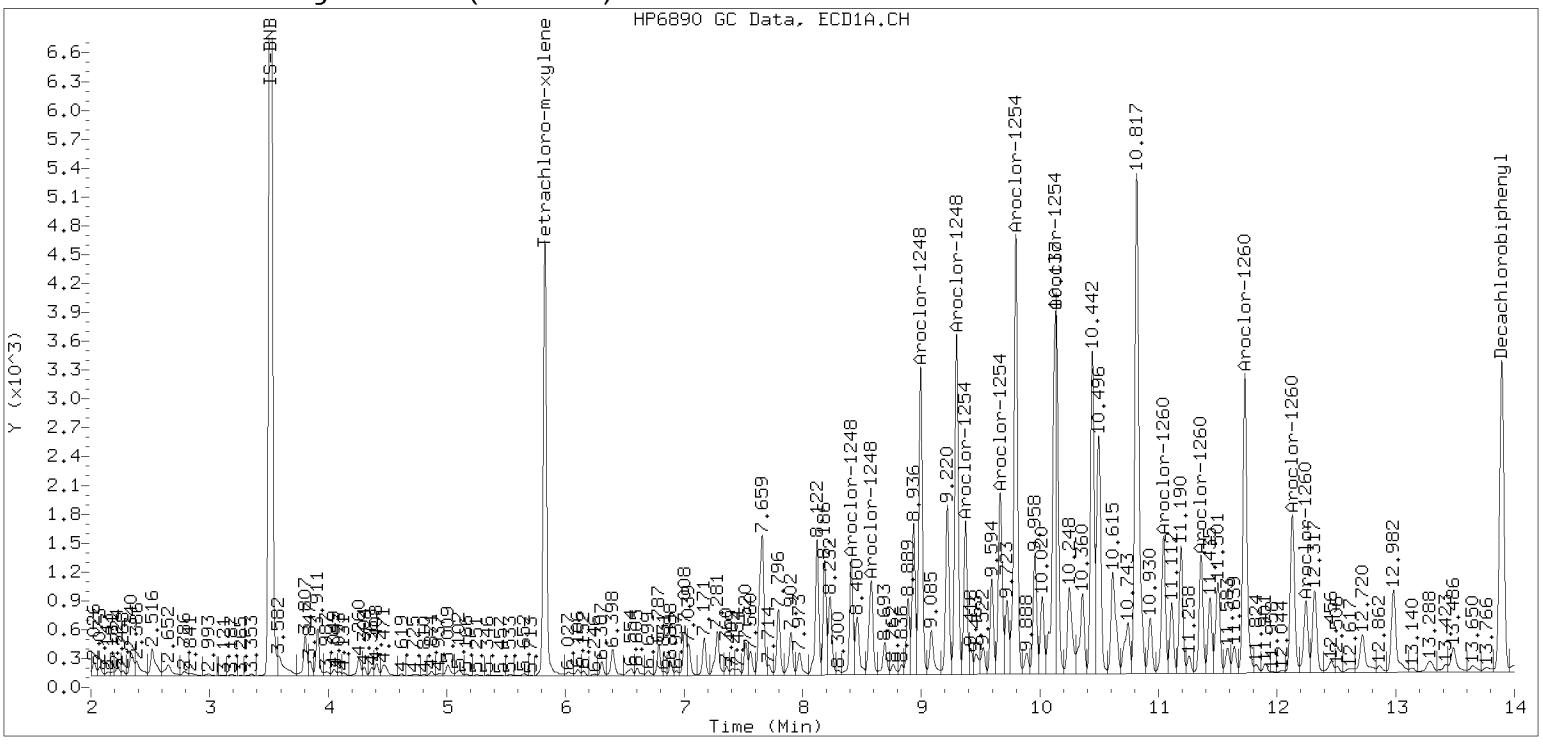
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052327ECD7.D Injection Date: 05-JAN-2023 21:31

Manual Integration (After)



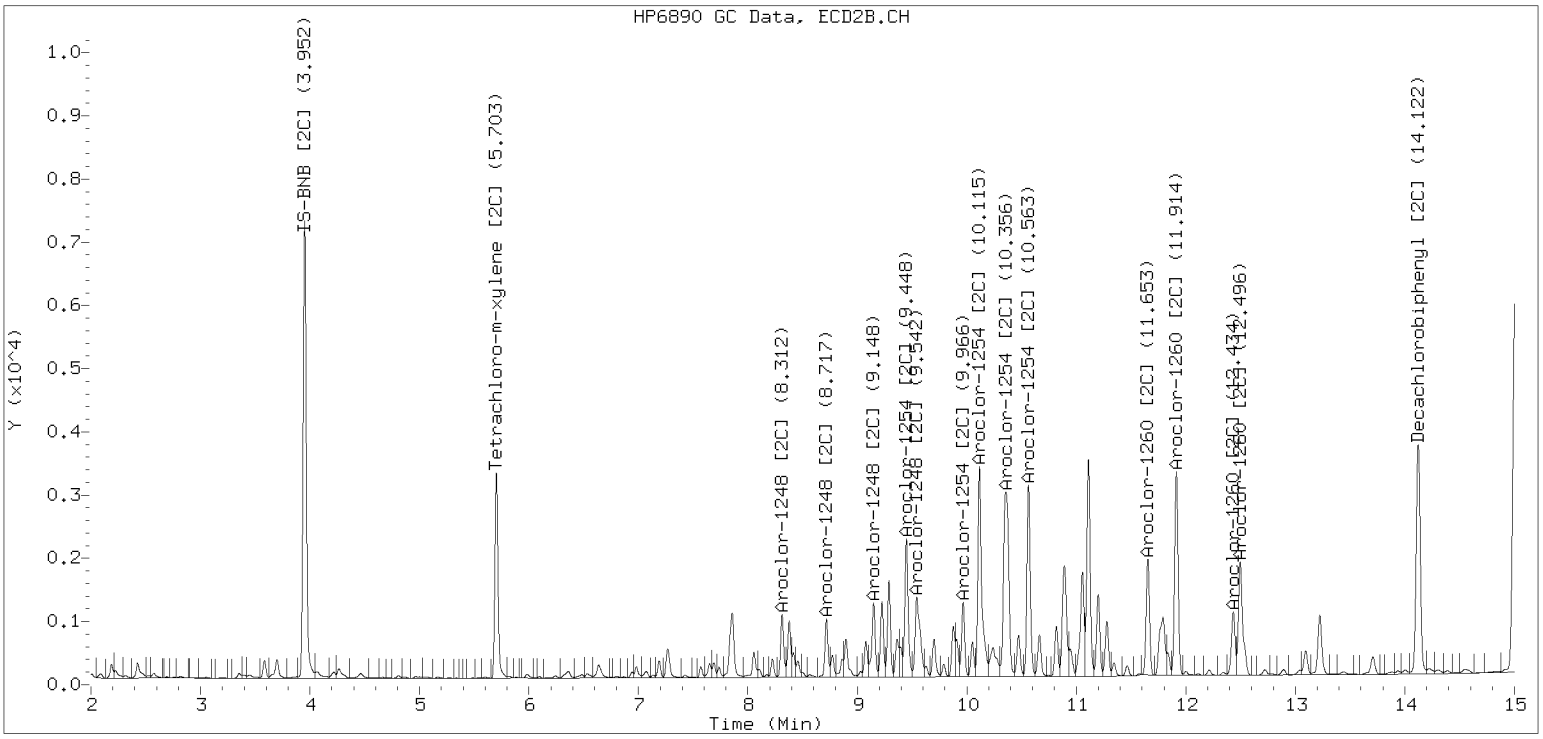
Processed Integration (Before)



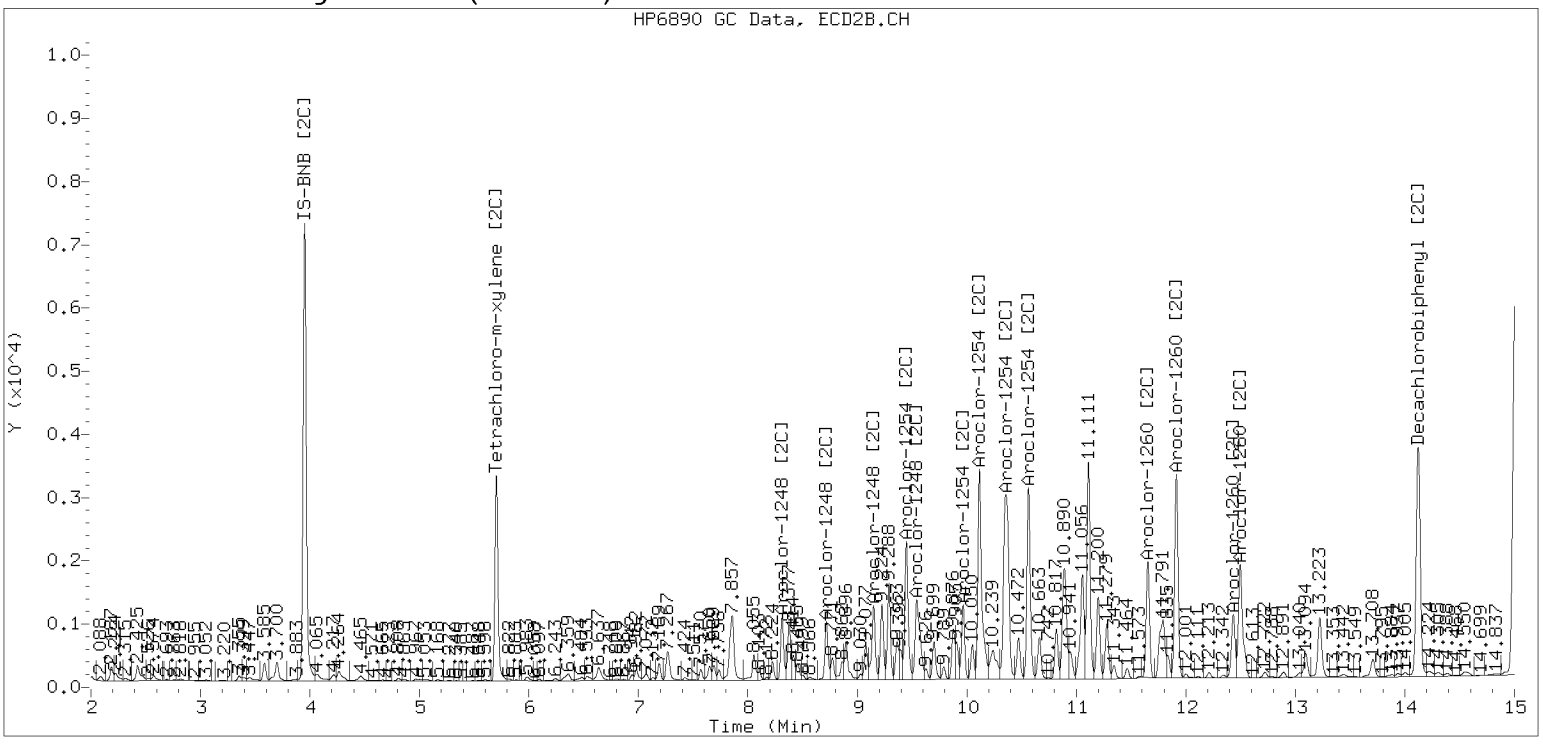
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052327ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-18 B	File ID:	01092337ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 21:43
% Solids:	57.24	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.86 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	585	7.8	20.0	D
11097-69-1	Aroclor 1254	1	5	573	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	173	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9919*	*10.3*	*128*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9919*	*7.83*	*97.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9919*	*9.98*	*125*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9919*	*7.81*	*97.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092337ECD7.D
Data file 2: /230109.b/230109.b/01092337ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-18
Client ID:
Injection Date: 09-JAN-2023 21:43
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.009	50978	5.703	-0.010	33583	7.8	7.8	0.2	Tetrachloro-m-xylene
13.895	-0.013	55682	14.121	-0.016	58537	10.3	10.0	2.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	459138	2.6
Hexabromobiphenyl	798898	591251	-26.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313300	25.8
Hexabromobiphenyl	362541	412781	13.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.015	95690	484.7	1	8.312	-0.014	113160	884.1
Aroclor-1248	2	8.580	-0.025	104892	416.2	2	8.717	-0.015	71431	530.6
Aroclor-1248	3	8.999	-0.023	238087	525.1	3	9.152	-0.026	79534	485.7
Aroclor-1248	4	9.300	-0.011	203792	917.4	4	9.629	0.027	12895	67.1
		Total Col1Ave (4 peaks):			585.8		Total Col2Ave (4 peaks):			491.9 RPD = 17
		Corrected Ave (3 peaks):			475.3		Corrected Ave (3 peaks):			361.1 RPD = 27
Aroclor-1254	1	9.300	-0.021	203792	504.1	1	9.449	-0.018	110258	545.8
Aroclor-1254	2	9.376	-0.026	95002	604.3	2	9.967	-0.019	50650	311.9
Aroclor-1254	3	9.666	-0.028	87857	344.1	3	10.116	-0.023	208285	596.7
Aroclor-1254	4	9.801	-0.030	289039	580.8	4	10.360	-0.029	212647	588.2
Aroclor-1254	5	10.143	-0.046	285213	836.0	5	10.564	-0.022	106506	610.8
		Total Col1Ave (5 peaks):			573.8		Total Col2Ave (5 peaks):			530.7 RPD = 8
		Corrected Ave (4 peaks):			508.3		Corrected Ave (4 peaks):			510.6 RPD = 0
Aroclor-1260	1	11.045	-0.017	37893	176.1	1	11.653	-0.016	56259	258.2
Aroclor-1260	2	11.362	-0.016	33074	148.6	2	11.914	-0.018	75779	138.6
Aroclor-1260	3	11.731	-0.021	83382	142.6	3	12.433	-0.018	22225	152.6
Aroclor-1260	4	12.131	-0.027	53745	180.4	4	12.497	-0.019	52926	145.2
Aroclor-1260	5	12.246	-0.016	19983	163.9	NS	---			----
		Total Col1Ave (5 peaks):			162.3		Total Col2Ave (4 peaks):			173.7 RPD = 7
		Corrected Ave (4 peaks):			157.8		Corrected Ave (3 peaks):			145.5 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.936 - 13.808) = 4158864 Col1 Total PCB = 0.9 ppm*

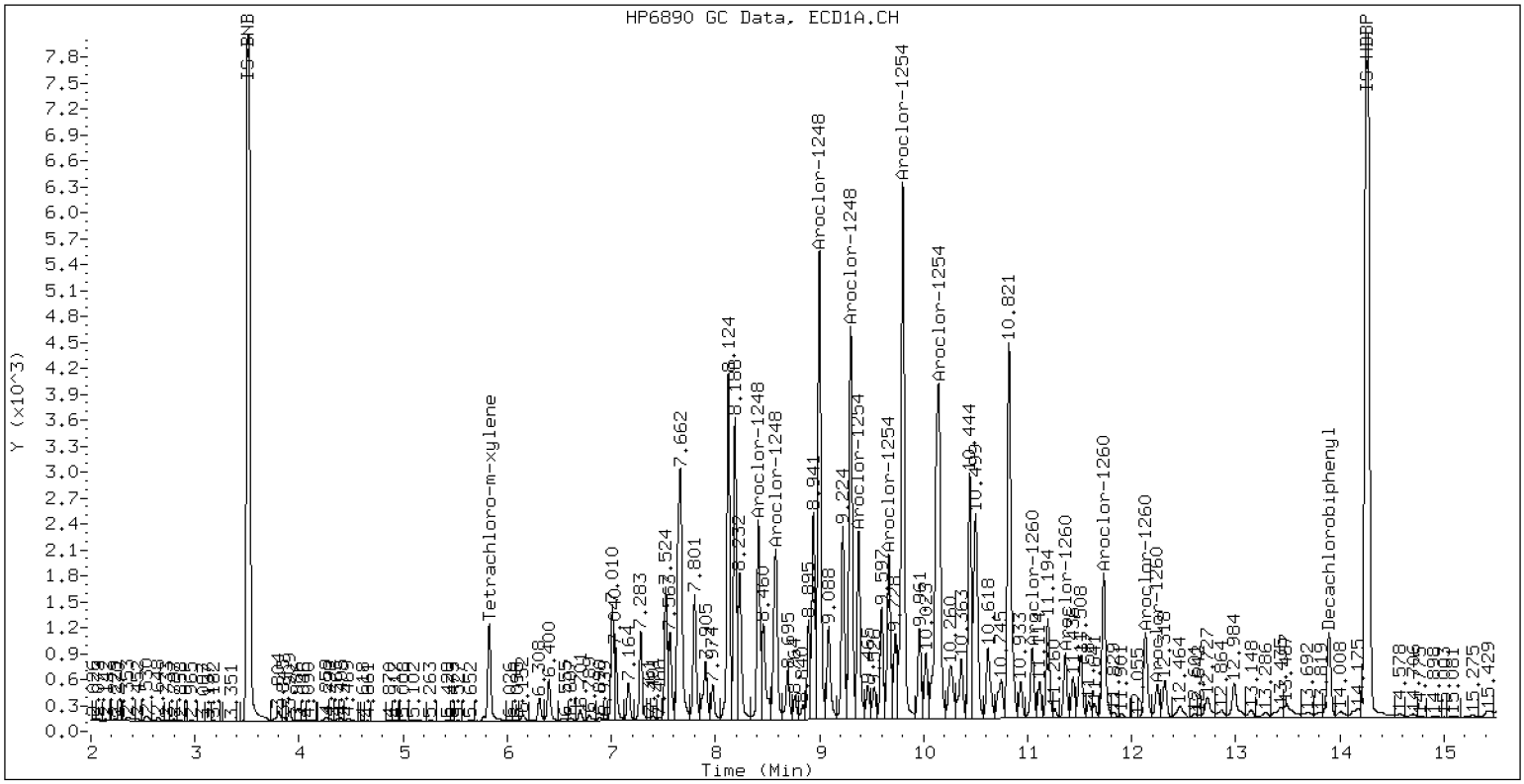
Total PCB Area Col2 (5.813 - 14.037) = 2993482 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

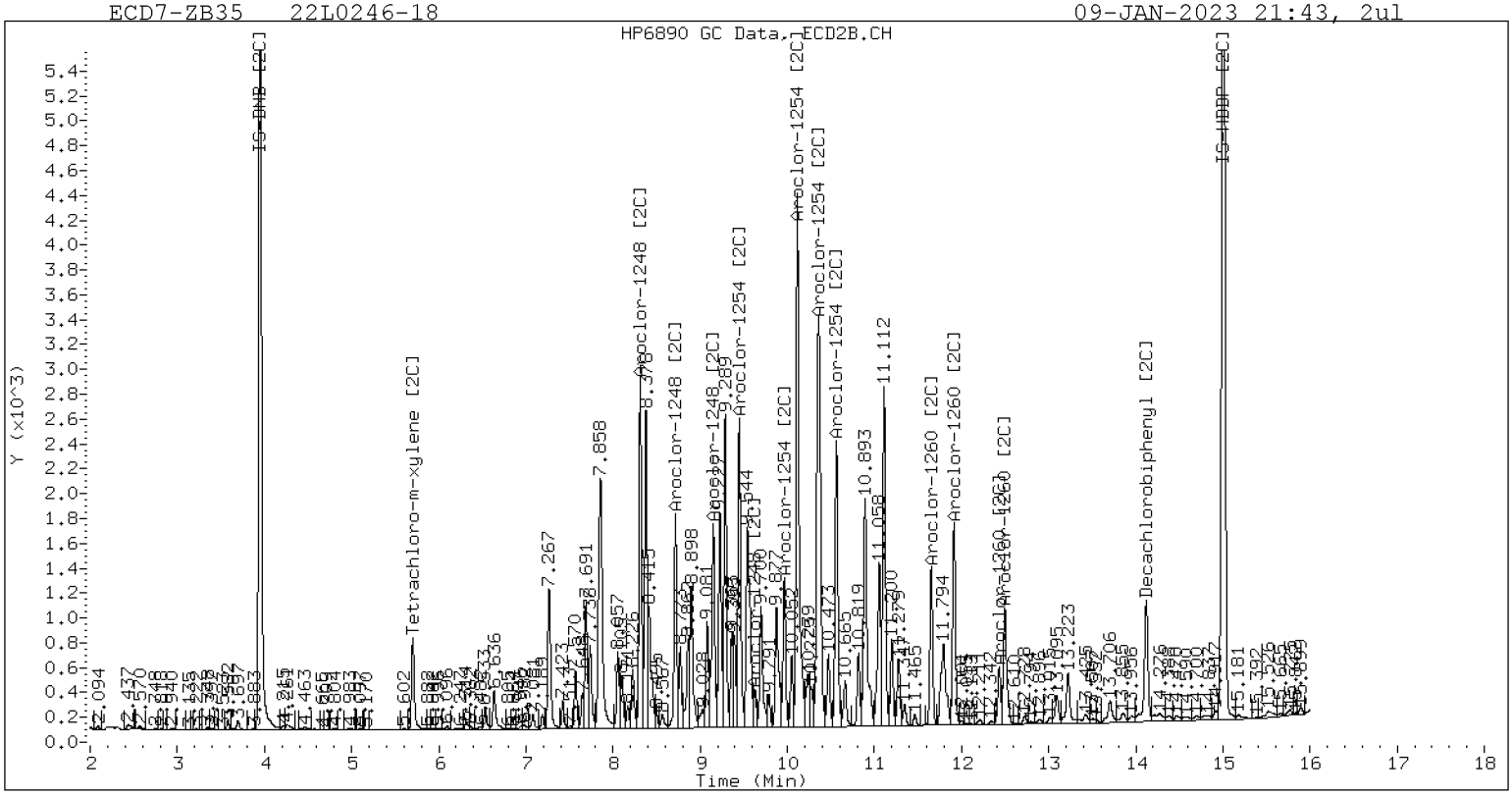
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-18 09-JAN-2023 21:43, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-18 09-JAN-2023 21:43, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779D-FD

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-19 B	File ID:	01092338ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 22:04
% Solids:	57.21	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.87 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	567	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	517	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	190	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9924*	*10.2*	*127*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9924*	*7.51*	*93.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9924*	*10.1*	*126*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9924*	*7.88*	*98.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092338ECD7.D
Data file 2: /230109.b/230109.b/01092338ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-19
Client ID:
Injection Date: 09-JAN-2023 22:04
Report Date: 01/14/2023 11:53
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.008	48981	5.705	-0.009	33735	7.5	7.9	4.9	Tetrachloro-m-xylene
13.895	-0.013	56090	14.121	-0.016	59305	10.2	10.1	1.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460013	2.8
Hexabromobiphenyl	798898	600141	-24.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	311906	25.2
Hexabromobiphenyl	362541	414176	14.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	7.268	-0.008	52200	327.3
Aroclor-1016	2	---			0.0	2	7.858	-0.013	123413	358.8
Aroclor-1016	3	---			0.0	3	8.058	-0.012	27236	184.4
Aroclor-1016	4	---			0.0	4	8.226	-0.015	20308	261.5
	Col1Ave: <3 Quant Peaks					Col2Ave: 283.0				
Aroclor-1221	1	---			0.0	1	4.980	-0.007	268	10.2
Aroclor-1221	2	---			0.0	2	6.315	-0.007	2248	44.8
Aroclor-1221	3	---			0.0	3	6.637	-0.009	15414	182.6
	Col1Ave: <3 Quant Peaks					Col2Ave: 79.2				
Aroclor-1232	1	---			0.0	1	4.980	-0.010	268	17.7
Aroclor-1232	2	---			0.0	2	7.268	-0.009	52200	673.9
Aroclor-1232	3	---			0.0	3	7.858	-0.019	123413	815.0
Aroclor-1232	4	---			0.0	4	8.718	-0.016	70023	1705.5
	Col1Ave: <3 Quant Peaks					Col2Ave: 803.0				
Aroclor-1242	1	---			0.0	1	7.268	-0.010	52200	395.4
Aroclor-1242	2	---			0.0	2	7.858	-0.017	123413	440.4
Aroclor-1242	3	---			0.0	3	9.152	-0.026	80169	886.8
Aroclor-1242	4	---			0.0	4	9.629	0.024	12544	115.4
	Col1Ave: <3 Quant Peaks					Col2Ave: 459.5				
Aroclor-1248	1	8.413	-0.015	93200	471.2	1	8.313	-0.013	105464	827.7
Aroclor-1248	2	8.581	-0.024	101646	402.5	2	8.718	-0.015	70023	522.5
Aroclor-1248	3	8.999	-0.023	231021	508.5	3	9.152	-0.026	80169	491.8
Aroclor-1248	4	9.300	-0.011	197262	886.3	4	9.629	0.027	12544	65.6
	Total Col1Ave (4 peaks):				567.1	Total Col2Ave (4 peaks):			476.9	RPD = 17
	Corrected Ave (3 peaks):				460.7	Corrected Ave (3 peaks):			359.9	RPD = 25
Aroclor-1254	1	9.300	-0.021	197262	487.0	1	9.449	-0.018	107233	533.2
Aroclor-1254	2	9.375	-0.026	92140	585.0	2	9.967	-0.020	48540	300.2
Aroclor-1254	3	9.667	-0.027	85160	332.9	3	10.116	-0.024	197075	567.1
Aroclor-1254	4	9.801	-0.030	268744	538.9	4	10.359	-0.030	205565	571.1
Aroclor-1254	5	10.142	-0.047	275077	804.8	5	10.564	-0.022	107132	617.2
	Total Col1Ave (5 peaks):				549.7	Total Col2Ave (5 peaks):			517.8	RPD = 6
	Corrected Ave (4 peaks):				486.0	Corrected Ave (4 peaks):			492.9	RPD = 1
Aroclor-1260	1	11.046	-0.017	43347	198.4	1	11.653	-0.016	57128	261.3
Aroclor-1260	2	11.361	-0.016	37278	165.0	2	11.914	-0.019	86625	157.9
Aroclor-1260	3	11.730	-0.021	97026	163.4	3	12.433	-0.018	26384	180.6
Aroclor-1260	4	12.131	-0.027	57718	190.9	4	12.498	-0.019	59537	162.8
Aroclor-1260	5	12.246	-0.015	23254	187.9	NS	---			----
	Total Col1Ave (5 peaks):				181.1	Total Col2Ave (4 peaks):			190.7	RPD = 5
	Corrected Ave (4 peaks):				176.8	Corrected Ave (3 peaks):			167.1	RPD = 6
Aroclor-1262	1	---			0.0	1	11.200	-0.018	35399	112.4
Aroclor-1262	2	---			0.0	2	11.653	-0.017	57128	209.4
Aroclor-1262	3	---			0.0	3	12.433	-0.018	26384	87.7
Aroclor-1262	4	---			0.0	4	12.498	-0.022	59537	126.3
	Col1Ave: <3 Quant Peaks					Col2Ave: 134.0				
Aroclor-1268	1	---			0.0	1	12.433	-0.016	26384	33.7
Aroclor-1268	2	---			0.0	2	12.498	-0.020	59537	74.3
Aroclor-1268	3	---			0.0	3	12.895	-0.015	1654	5.6
Aroclor-1268	4	---			0.0	4	13.707	-0.020	14226	6.6
	Col1Ave: <3 Quant Peaks					Col2Ave: 30.1				

Total PCB Area Col1 (5.936 - 13.808) = 4071274 Col1 Total PCB = 0.9 ppm*

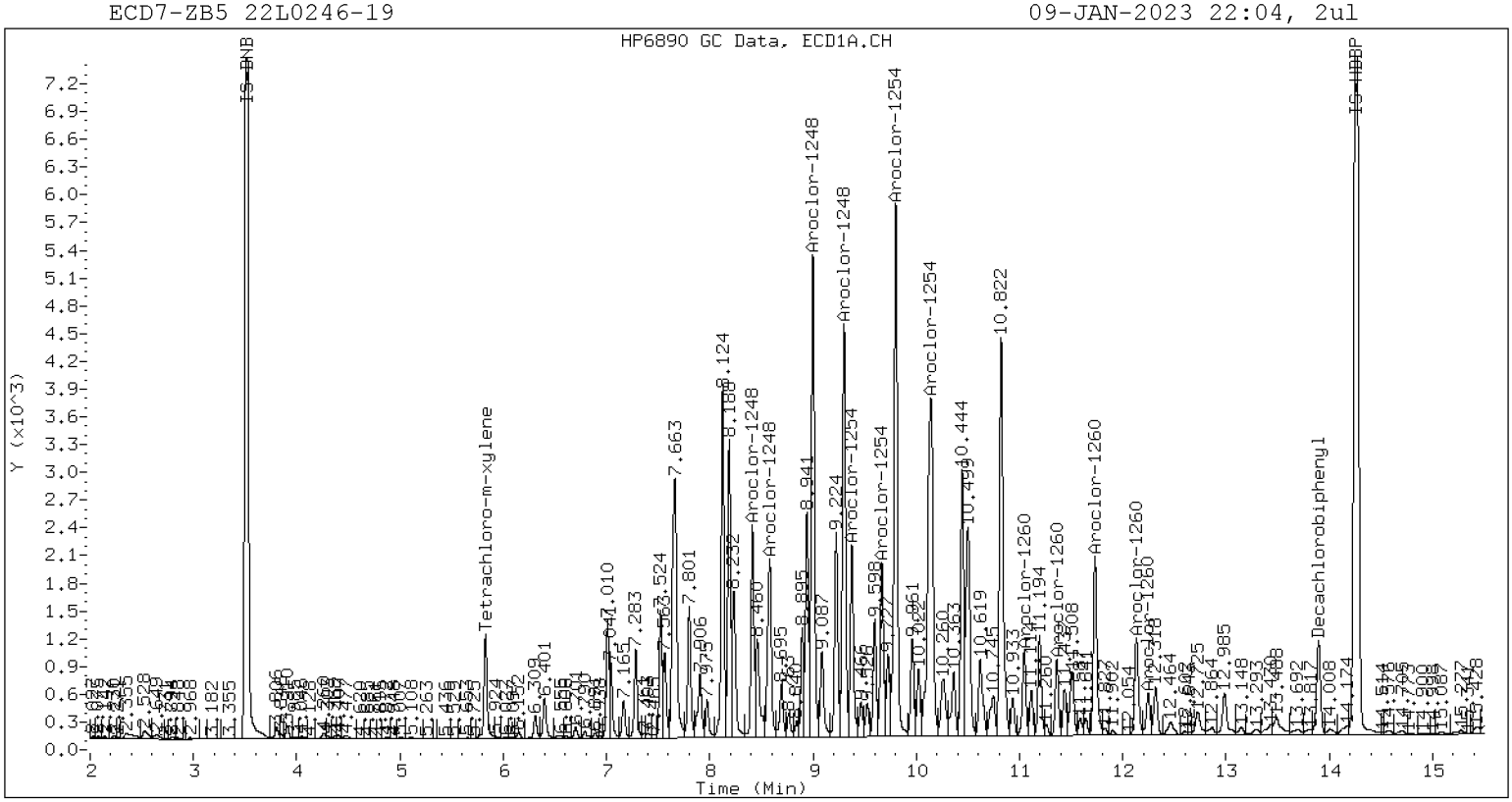
Total PCB Area Col2 (5.813 - 14.037) = 2927341 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

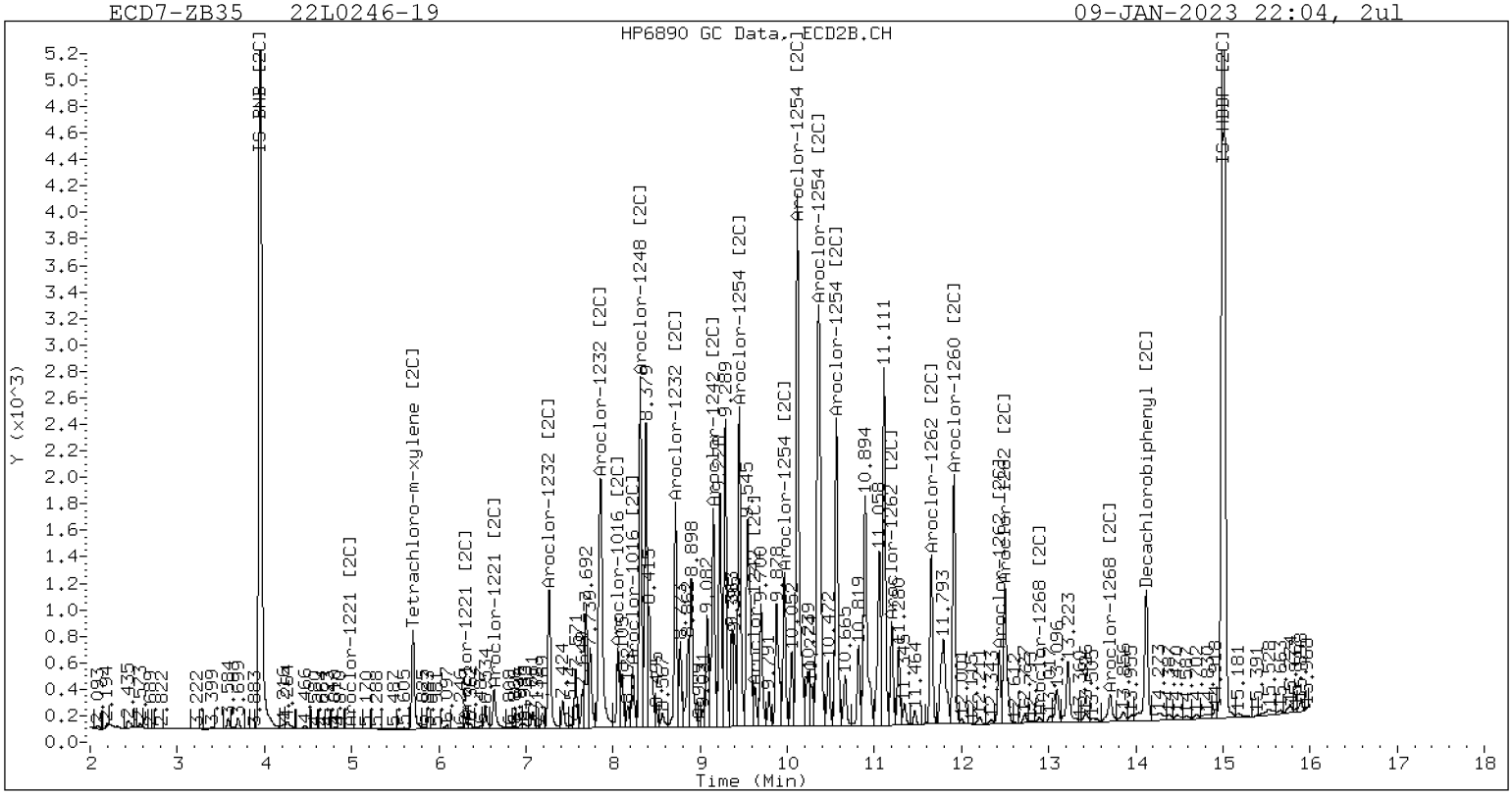
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-19 09-JAN-2023 22:04, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-19 09-JAN-2023 22:04, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-20 B	File ID:	01092339ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 22:25
% Solids:	59.65	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.97 g Wet / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.0	15.6	40.0	U
11104-28-2	Aroclor 1221	1	10	40.0	15.6	40.0	U
11141-16-5	Aroclor 1232	1	10	40.0	15.6	40.0	U
53469-21-9	Aroclor 1242	1	10	40.0	15.6	40.0	U
12672-29-6	Aroclor 1248	1	10	1050	15.6	40.0	D
11097-69-1	Aroclor 1254	1	10	866	15.6	40.0	D
11096-82-5	Aroclor 1260	2	10	216	5.9	40.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9945*	*11.5*	*144*	*40 - 126*	*
Tetrachlorometaxylene	*1*	*7.9945*	*7.05*	*88.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9945*	*10.7*	*133*	*40 - 126*	*
Tetrachlorometaxylene	*2*	*7.9945*	*7.37*	*92.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092339ECD7.D
Data file 2: /230109.b/230109.b/01092339ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-20
Client ID:
Injection Date: 09-JAN-2023 22:25
Report Date: 01/14/2023 11:53
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.008	22960	5.704	-0.009	15823	3.5	3.7	4.4	Tetrachloro-m-xylene
13.896	-0.011	34883	14.121	-0.015	33536	5.7	5.3	7.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	459191	2.6
Hexabromobiphenyl	798898	662529	-17.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313006	25.7
Hexabromobiphenyl	362541	442929	22.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.756	-0.005	430	18.8	1	---			0.0
Aroclor-1232	2	6.151	-0.008	4983	103.3	2	---			0.0
Aroclor-1232	3	7.662	-0.022	257798	1189.6	3	---			0.0
Aroclor-1232	4	8.581	-0.025	116294	1264.8	4	---			0.0
	Total Col1Ave (4 peaks):				644.1	Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.014	97355	493.1	1	8.314	-0.012	116004	907.2
Aroclor-1248	2	8.581	-0.023	116294	461.3	2	8.720	-0.013	71505	531.7
Aroclor-1248	3	9.000	-0.022	210787	464.8	3	9.154	-0.023	72756	444.7
Aroclor-1248	4	9.301	-0.010	153064	689.0	4	9.630	0.028	11203	58.3
	Total Col1Ave (4 peaks):				527.1	Total Col2Ave (4 peaks):				485.5 RPD = 8
	Corrected Ave (3 peaks):				473.1	Corrected Ave (3 peaks):				344.9 RPD = 31
Aroclor-1254	1	9.301	-0.020	153064	378.6	1	9.452	-0.015	78370	388.3
Aroclor-1254	2	9.378	-0.024	74201	471.9	2	9.969	-0.017	36466	224.8
Aroclor-1254	3	9.668	-0.026	69099	270.6	3	10.118	-0.021	150308	431.0
Aroclor-1254	4	9.803	-0.028	216529	435.0	4	10.362	-0.027	151067	418.3
Aroclor-1254	5	10.146	-0.043	208175	610.1	5	10.567	-0.020	72142	414.1
	Total Col1Ave (5 peaks):				433.2	Total Col2Ave (5 peaks):				375.3 RPD = 14
	Corrected Ave (4 peaks):				389.0	Corrected Ave (4 peaks):				361.4 RPD = 7
Aroclor-1260	1	11.047	-0.015	27564	114.3	1	11.655	-0.014	38685	165.5
Aroclor-1260	2	11.362	-0.015	23770	95.3	2	11.915	-0.017	48670	83.0
Aroclor-1260	3	11.733	-0.019	56655	86.4	3	12.434	-0.017	14789	94.7
Aroclor-1260	4	12.133	-0.025	40981	122.8	4	12.499	-0.018	35278	90.2
Aroclor-1260	5	12.247	-0.015	15439	113.0	NS	---			----
	Total Col1Ave (5 peaks):				106.4	Total Col2Ave (4 peaks):				108.3 RPD = 2
	Corrected Ave (4 peaks):				102.3	Corrected Ave (3 peaks):				89.3 RPD = 14
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 3771893 Col1 Total PCB = 0.9 ppm*

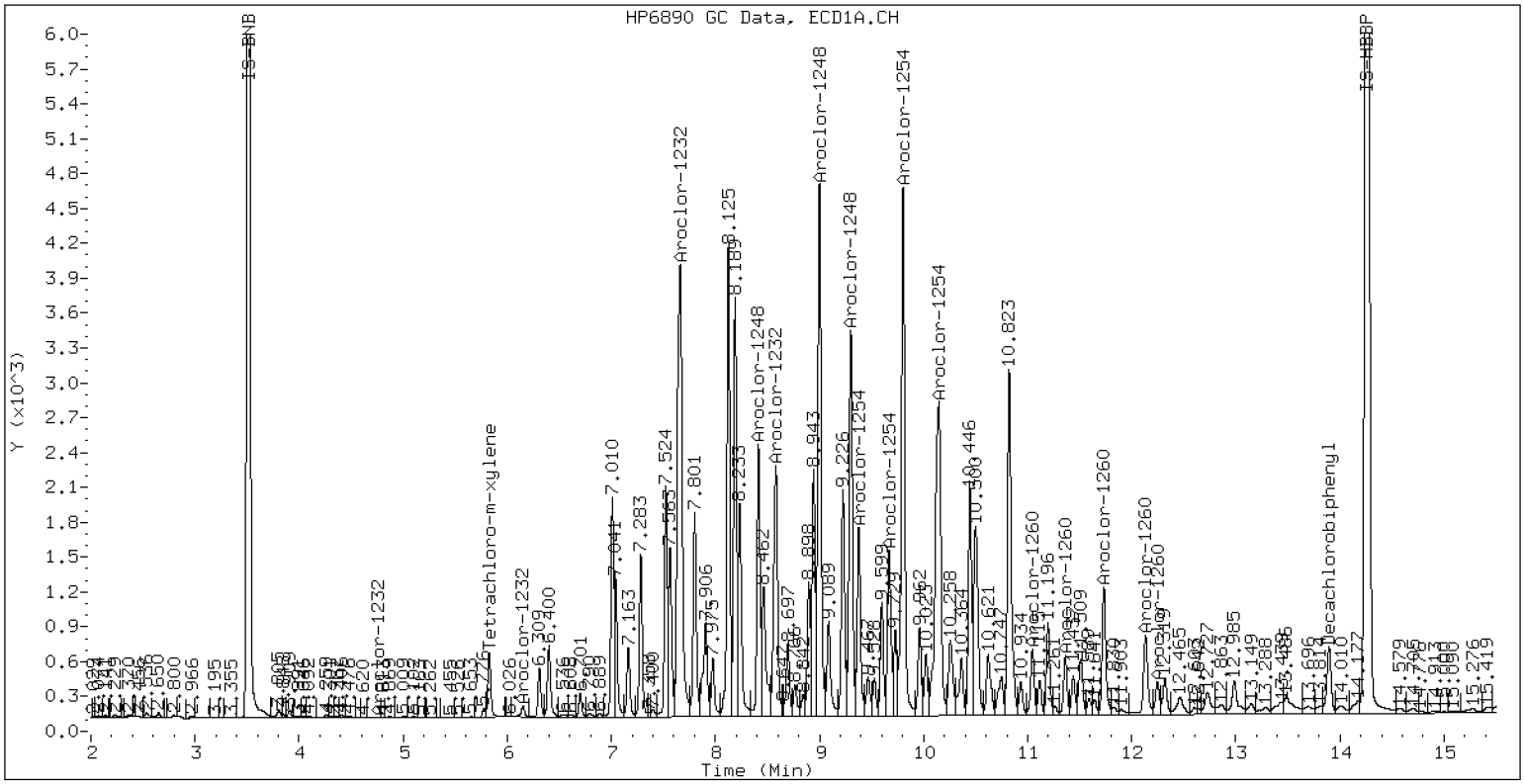
Total PCB Area Col2 (5.813 - 14.037) = 2582967 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

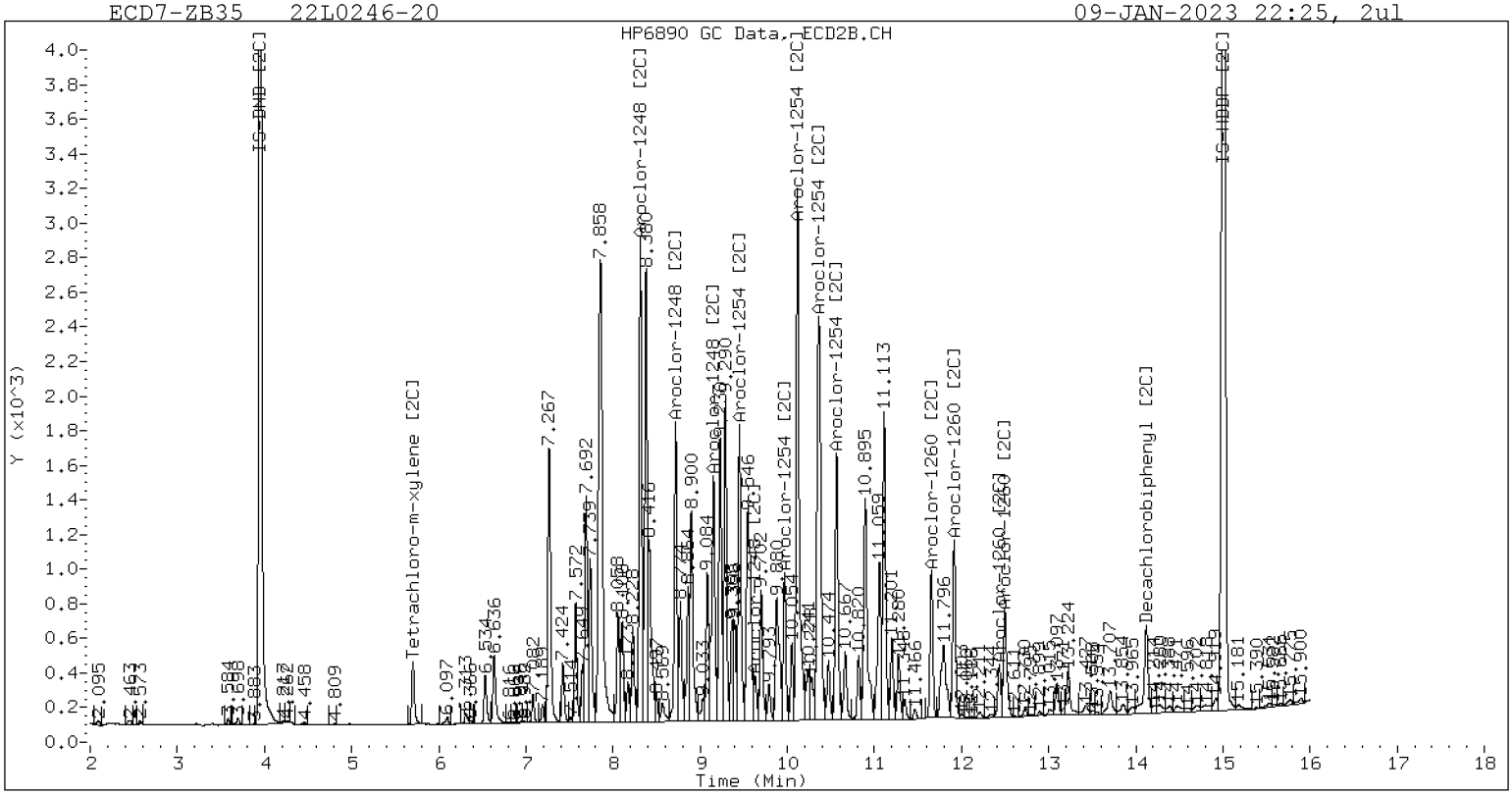
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-20 09-JAN-2023 22:25, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-20 09-JAN-2023 22:25, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-21 B	File ID:	01052363ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/06/23 10:10
% Solids:	60.43	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.72 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	39.9	15.6	39.9	U
11104-28-2	Aroclor 1221	1	10	39.9	15.6	39.9	U
11141-16-5	Aroclor 1232	1	10	39.9	15.6	39.9	U
53469-21-9	Aroclor 1242	1	10	39.9	15.6	39.9	U
12672-29-6	Aroclor 1248	1	10	757	15.6	39.9	D
11097-69-1	Aroclor 1254	1	10	489	15.6	39.9	D
11096-82-5	Aroclor 1260	2	10	136	5.9	39.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9865*	*9.24*	*116*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9865*	*5.45*	*68.2*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9865*	*7.51*	*94.0*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9865*	*5.70*	*71.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052363ECD7.D
Data file 2: /230105.b/230105.b/01052363ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-21RE1
Client ID:
Injection Date: 06-JAN-2023 10:10
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	17480	5.705	-0.005	11923	2.7	2.9	4.5	Tetrachloro-m-xylene
13.896	-0.007	25652	14.123	-0.004	21321	4.6	3.8	20.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	451905	1.0
Hexabromobiphenyl	798898	604551	-24.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	304767	22.4
Hexabromobiphenyl	362541	399286	10.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.415	-0.009	73606	378.8	1	8.315	-0.006	78347	629.3
Aroclor-1248	2	8.582	-0.017	93874	378.4	2	8.721	-0.005	53277	406.9
Aroclor-1248	3	9.001	-0.014	143768	322.1	3	9.155	-0.017	44528	279.5
Aroclor-1248	4	9.302	-0.009	95543	437.0	4	9.550	-0.042	28858	154.3
	Total Col1Ave (4 peaks):				379.1	Total Col2Ave (4 peaks):				367.5 RPD = 3
	Corrected Ave (3 peaks):				359.8	Corrected Ave (3 peaks):				280.2 RPD = 25
Aroclor-1254	1	9.302	-0.010	95543	240.1	1	9.453	-0.008	48244	245.5
Aroclor-1254	2	9.379	-0.013	47326	305.8	2	9.970	-0.007	21811	138.1
Aroclor-1254	3	9.672	-0.013	44593	177.4	3	10.119	-0.011	96204	283.3
Aroclor-1254	4	9.804	-0.014	137920	281.6	4	10.365	-0.013	91946	261.4
Aroclor-1254	5	10.148	-0.027	73723	219.6	5	10.568	-0.007	43370	255.7
	Total Col1Ave (5 peaks):				244.9	Total Col2Ave (5 peaks):				236.8 RPD = 3
	Corrected Ave (4 peaks):				229.7	Corrected Ave (4 peaks):				225.2 RPD = 2
Aroclor-1260	1	11.048	-0.008	17298	78.6	1	11.658	-0.005	21170	100.4
Aroclor-1260	2	11.363	-0.009	13793	60.6	2	11.918	-0.009	27799	52.6
Aroclor-1260	3	11.734	-0.012	33531	56.1	3	12.437	-0.007	8615	61.2
Aroclor-1260	4	12.136	-0.015	21192	69.6	4	12.501	-0.007	20485	58.1
Aroclor-1260	5	12.248	-0.008	8135	65.3	NS	---			----
	Total Col1Ave (5 peaks):				66.0	Total Col2Ave (4 peaks):				68.1 RPD = 3
	Corrected Ave (4 peaks):				62.9	Corrected Ave (3 peaks):				57.3 RPD = 9
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 2576370 Col1 Total PCB = 0.6 ppm*

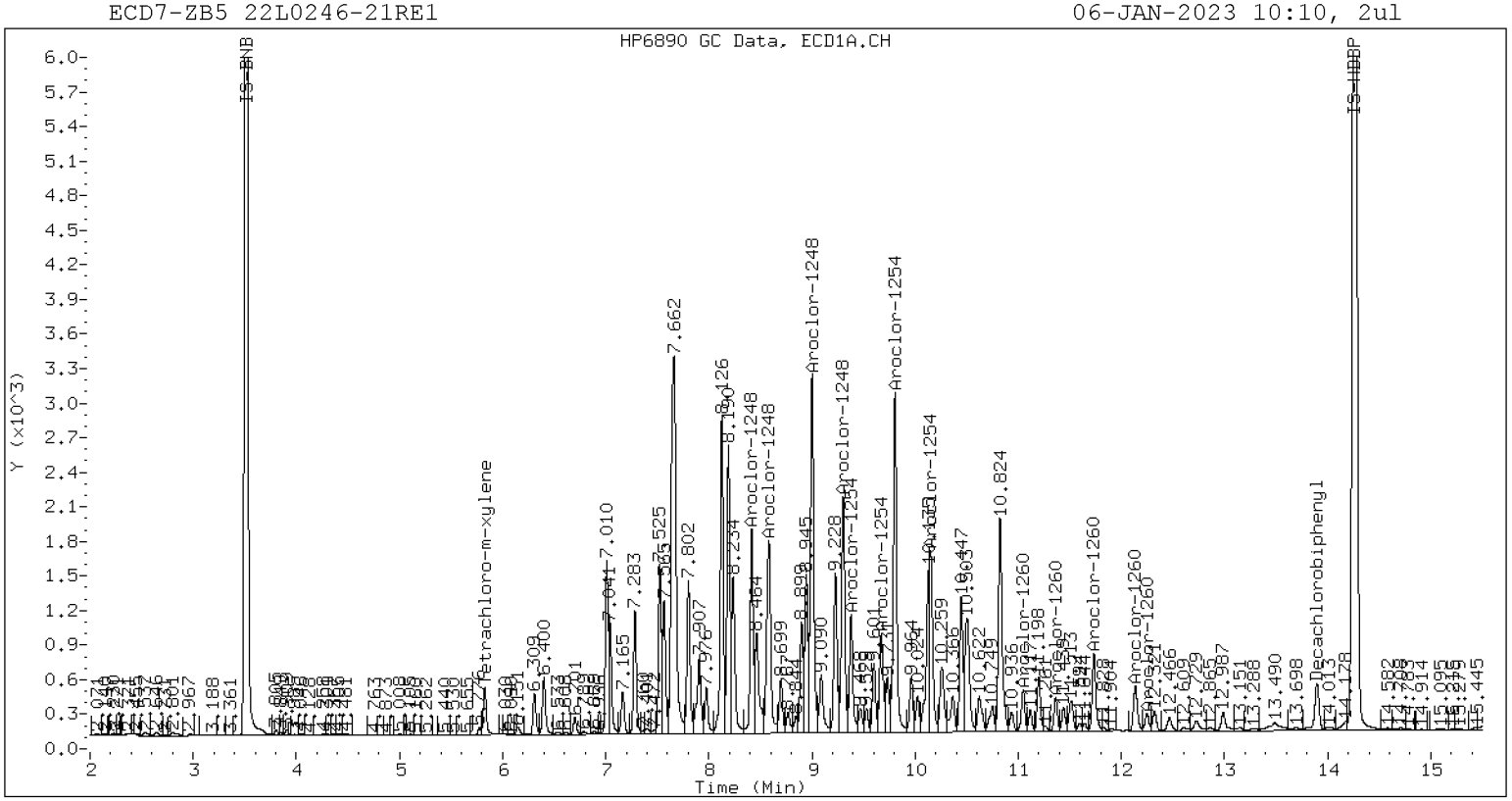
Total PCB Area Col2 (5.810 - 14.028) = 1766789 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

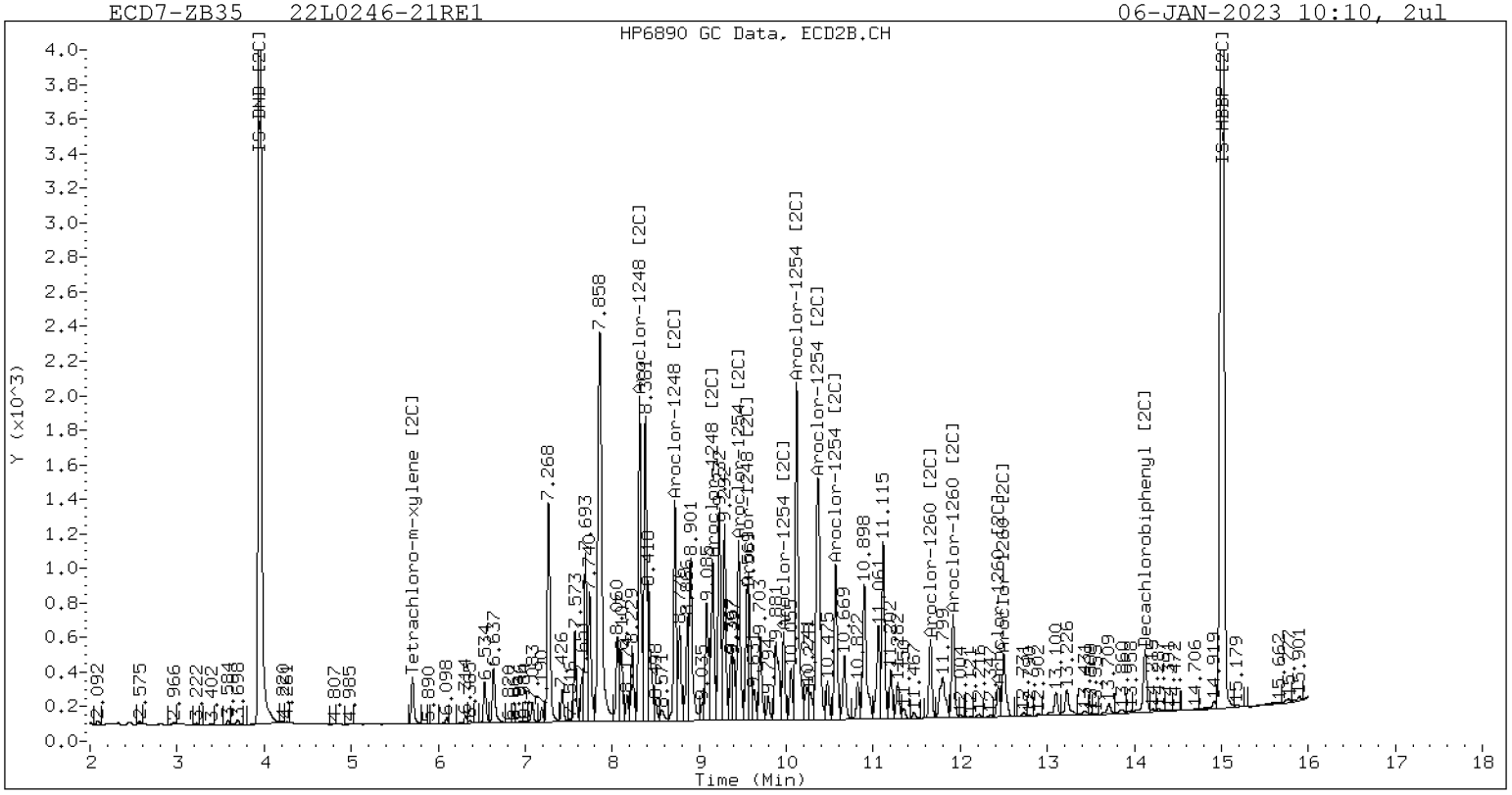
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-21RE1 06-JAN-2023 10:10, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-21RE1 06-JAN-2023 10:10, 2ul

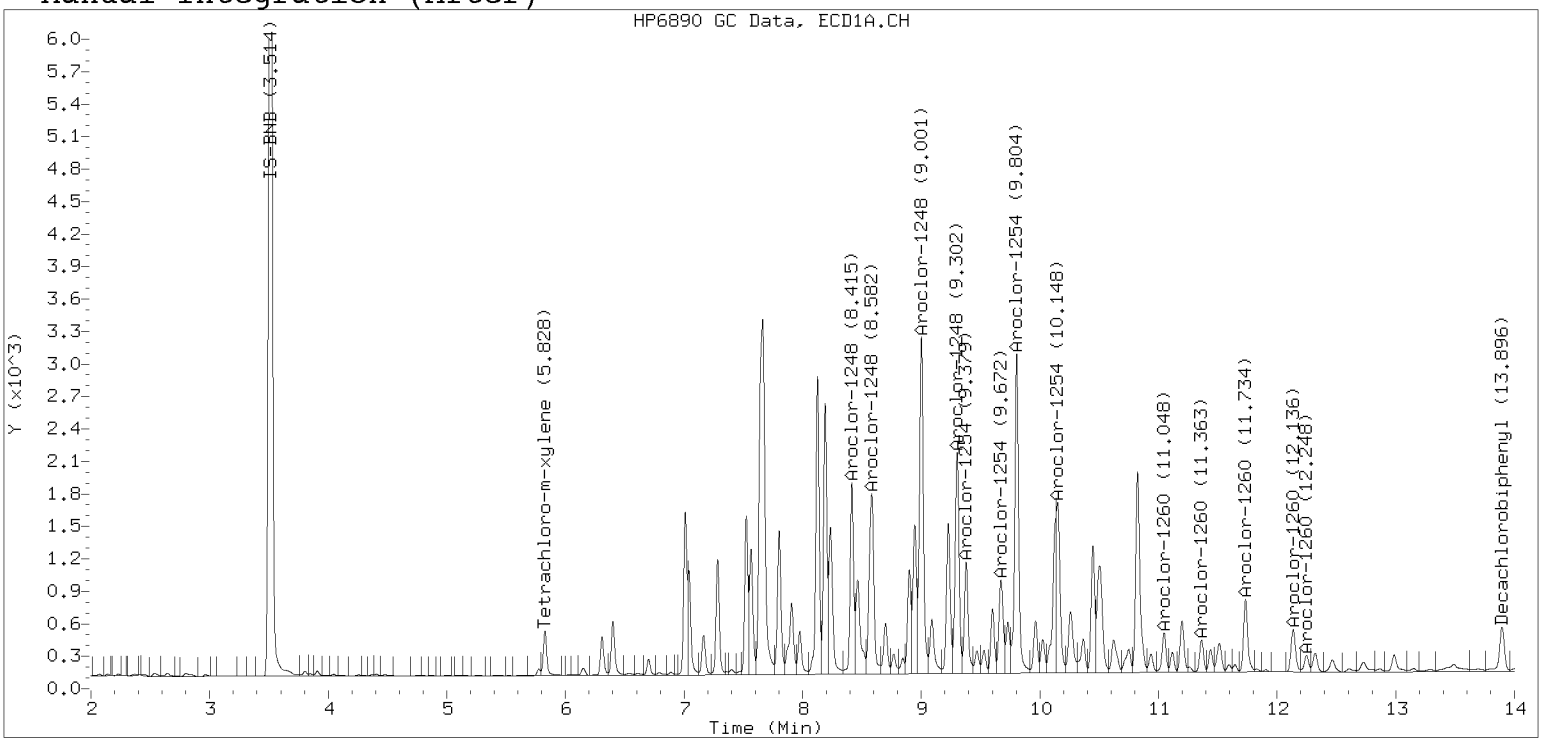


ZB-35 Manual Integration: YES

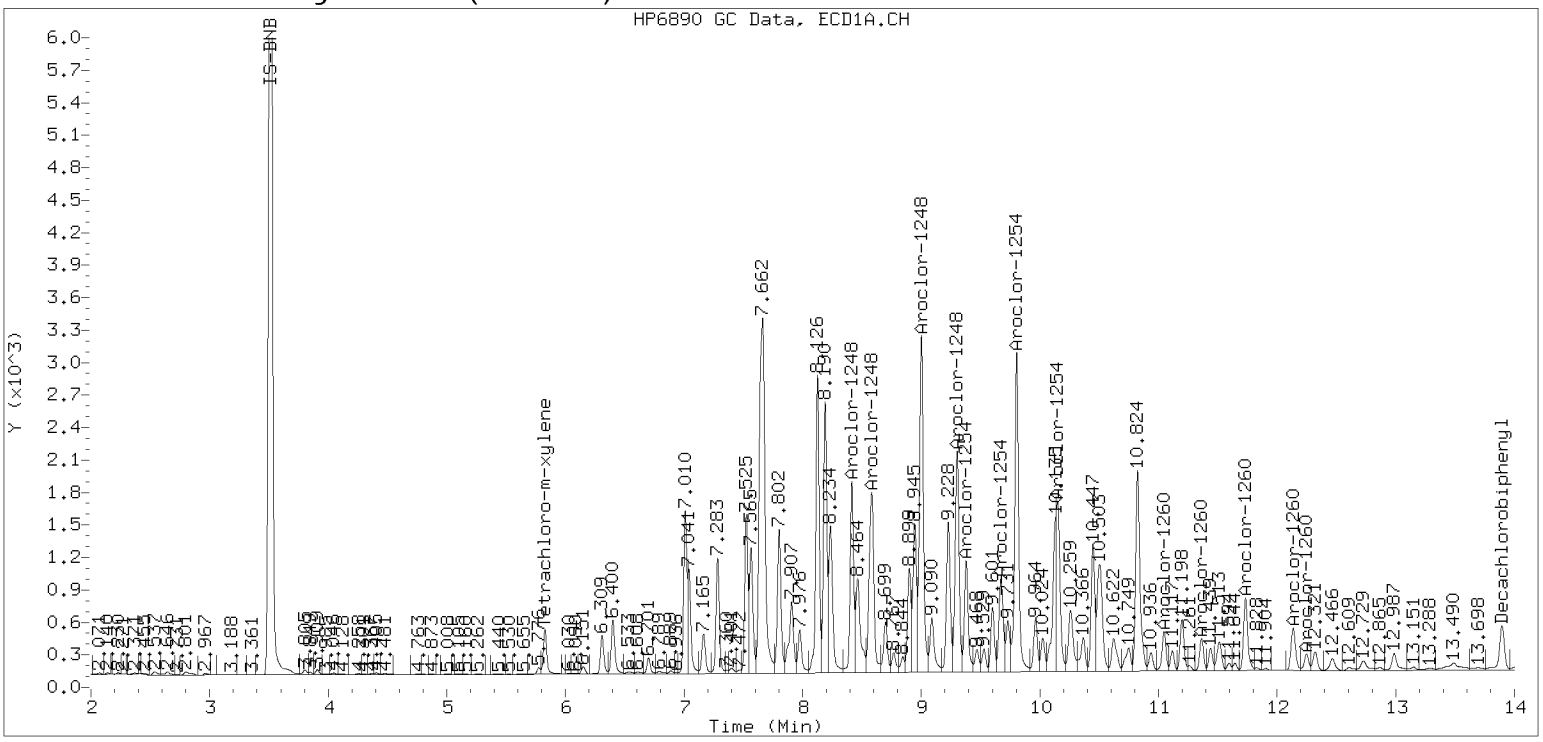
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052363ECD7.D Injection Date: 06-JAN-2023 10:10

Manual Integration (After)



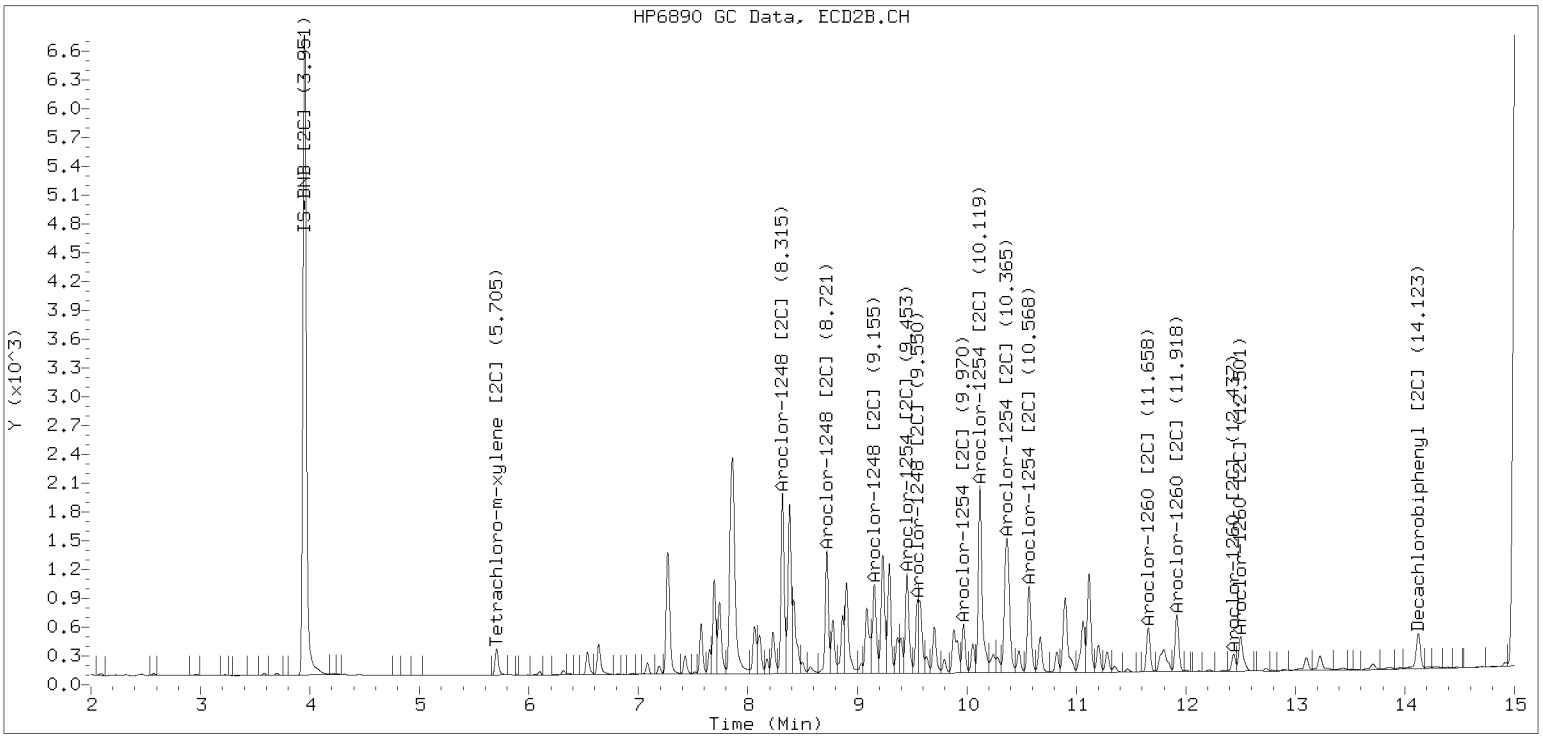
Processed Integration (Before)



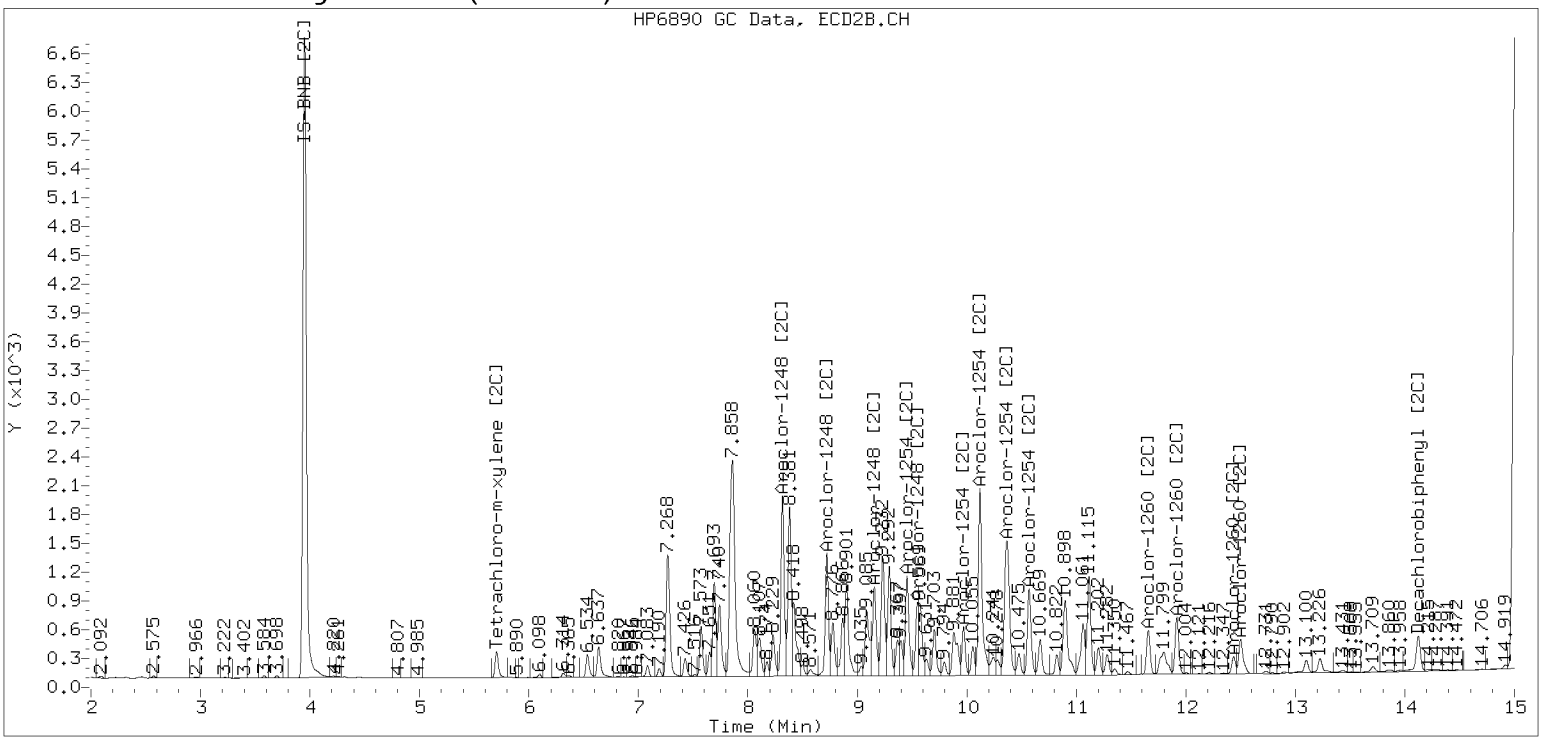
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052363ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-22 B	File ID:	01052364ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/06/23 10:31
% Solids:	56.98	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.95 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0096	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.0	15.6	40.0	U
11104-28-2	Aroclor 1221	1	10	40.0	15.6	40.0	U
11141-16-5	Aroclor 1232	1	10	40.0	15.6	40.0	U
53469-21-9	Aroclor 1242	1	10	40.0	15.6	40.0	U
12672-29-6	Aroclor 1248	2	10	719	15.6	40.0	D
11097-69-1	Aroclor 1254	2	10	534	15.6	40.0	D
11096-82-5	Aroclor 1260	2	10	179	5.9	40.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9955*	*10.9*	*136*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9955*	*6.63*	*82.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9955*	*8.20*	*103*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9955*	*6.91*	*86.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052364ECD7.D
Data file 2: /230105.b/230105.b/01052364ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-22RE1
Client ID:
Injection Date: 06-JAN-2023 10:31
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.005	21052	5.705	-0.005	13987	3.3	3.5	4.2	Tetrachloro-m-xylene
13.896	-0.008	31249	14.124	-0.004	24483	5.4	4.1	28.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447873	0.1
Hexabromobiphenyl	798898	625691	-21.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	295100	18.5
Hexabromobiphenyl	362541	420113	15.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.009	68651	356.5	1	8.315	-0.006	69304	574.9
Aroclor-1248	2	8.582	-0.017	79839	324.7	2	8.721	-0.006	49536	390.7
Aroclor-1248	3	9.000	-0.015	133543	301.9	3	9.154	-0.018	48791	316.3
Aroclor-1248	4	9.302	-0.010	98051	452.5	4	9.550	-0.043	28585	157.9
	Total Col1Ave (4 peaks):				358.9	Total Col2Ave (4 peaks):				359.9 RPD = 0
	Corrected Ave (3 peaks):				327.7	Corrected Ave (3 peaks):				288.3 RPD = 13
Aroclor-1254	1	9.302	-0.011	98051	248.6	1	9.452	-0.009	51310	269.7
Aroclor-1254	2	9.378	-0.014	45675	297.8	2	9.970	-0.008	25402	166.1
Aroclor-1254	3	9.671	-0.013	50700	203.6	3	10.119	-0.011	95635	290.9
Aroclor-1254	4	9.804	-0.015	134307	276.6	4	10.364	-0.014	100061	293.8
Aroclor-1254	5	10.147	-0.028	69685	209.4	5	10.567	-0.009	51744	315.1
	Total Col1Ave (5 peaks):				247.2	Total Col2Ave (5 peaks):				267.1 RPD = 8
	Corrected Ave (4 peaks):				234.6	Corrected Ave (4 peaks):				255.1 RPD = 8
Aroclor-1260	1	11.047	-0.009	23223	102.0	1	11.657	-0.006	27878	125.7
Aroclor-1260	2	11.362	-0.011	18942	80.4	2	11.917	-0.009	40982	73.6
Aroclor-1260	3	11.733	-0.013	49064	79.3	3	12.436	-0.007	12169	82.1
Aroclor-1260	4	12.134	-0.016	29193	92.6	4	12.501	-0.007	28162	75.9
Aroclor-1260	5	12.246	-0.009	11775	91.3	NS	---			----
	Total Col1Ave (5 peaks):				89.1	Total Col2Ave (4 peaks):				89.4 RPD = 0
	Corrected Ave (4 peaks):				85.9	Corrected Ave (3 peaks):				77.2 RPD = 11
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.933 - 13.804) = 2650526 Col1 Total PCB = 0.6 ppm*

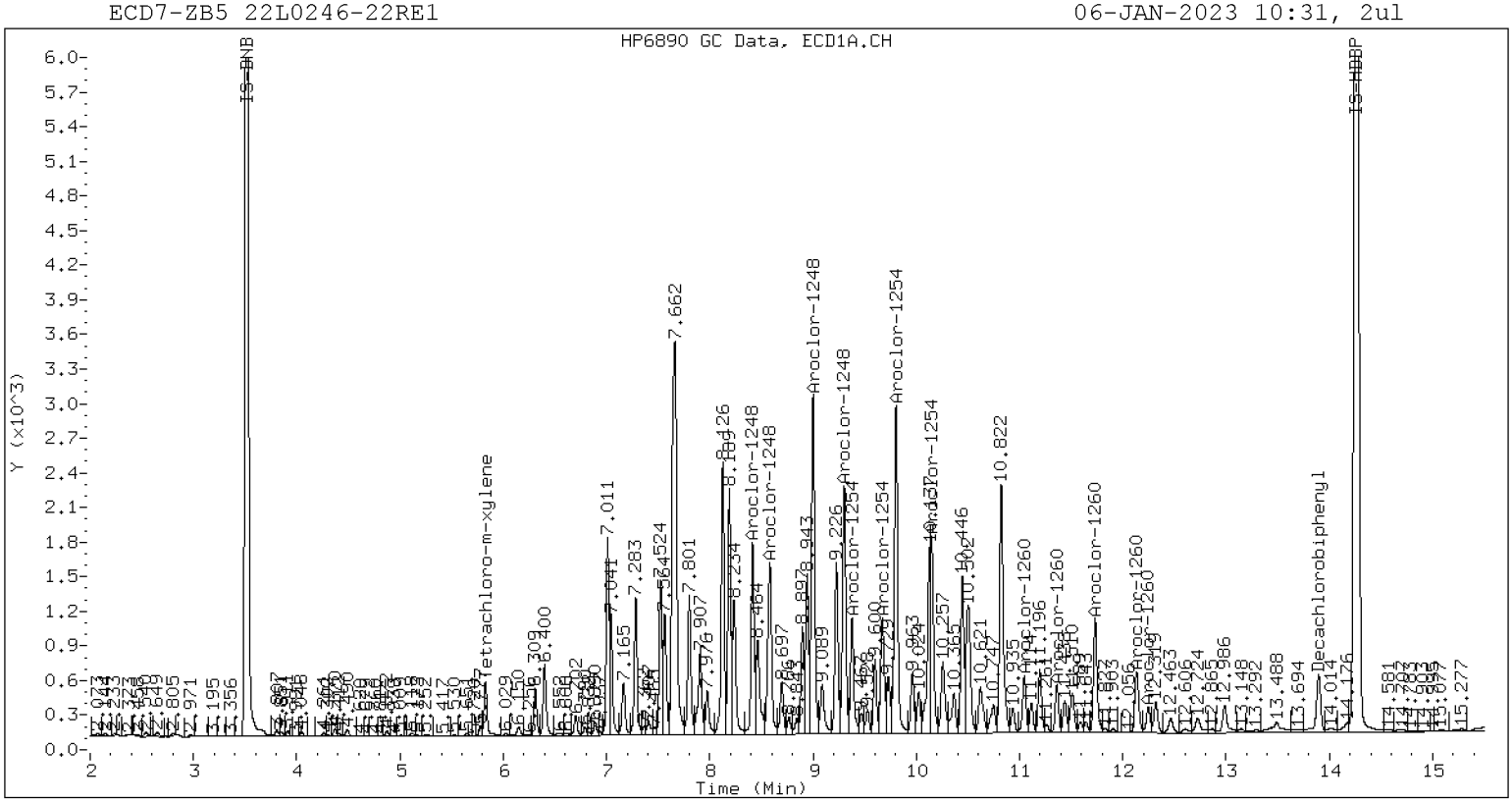
Total PCB Area Col2 (5.810 - 14.028) = 1871974 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

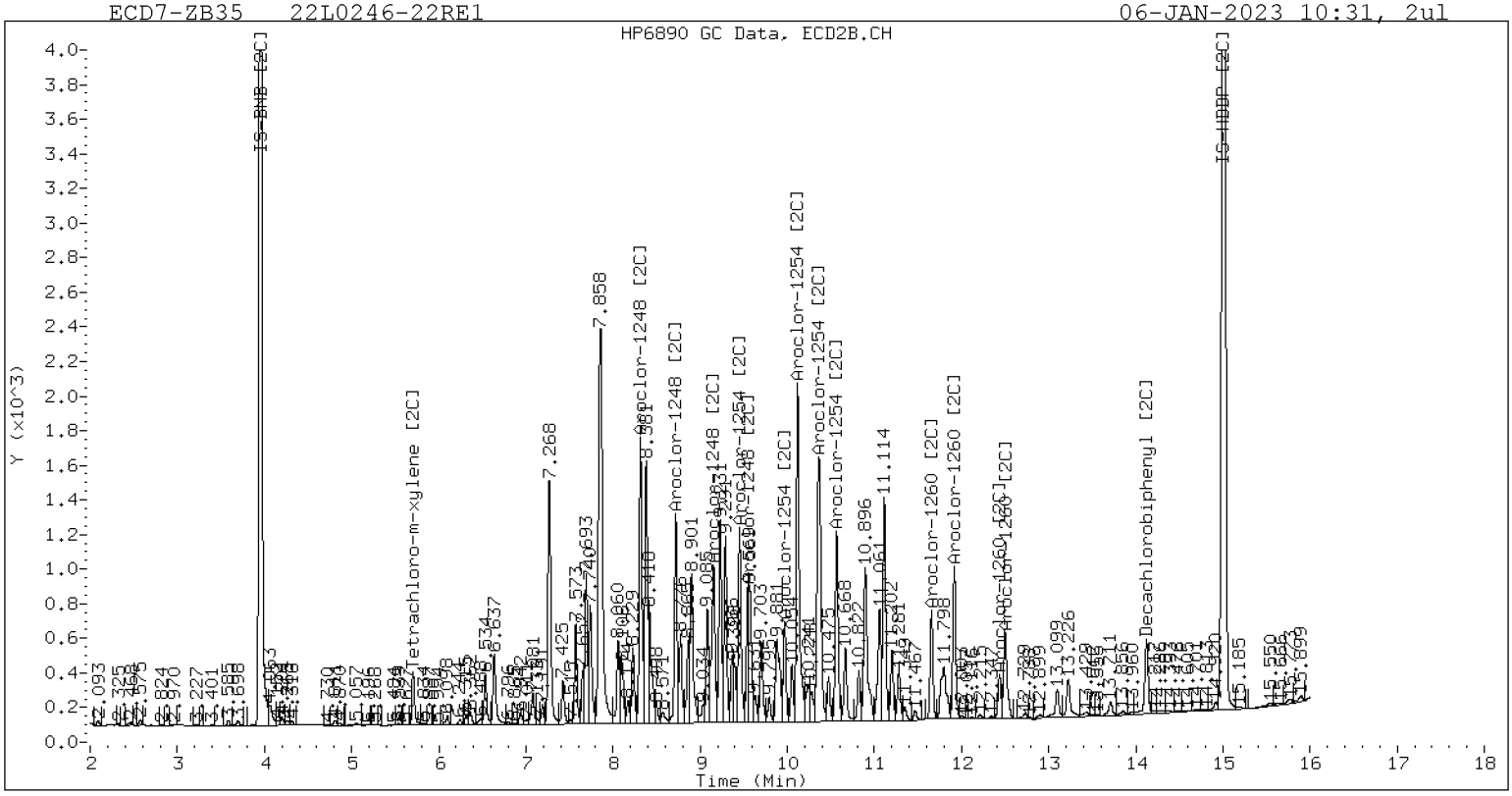
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-22RE1 06-JAN-2023 10:31, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-22RE1 06-JAN-2023 10:31, 2ul

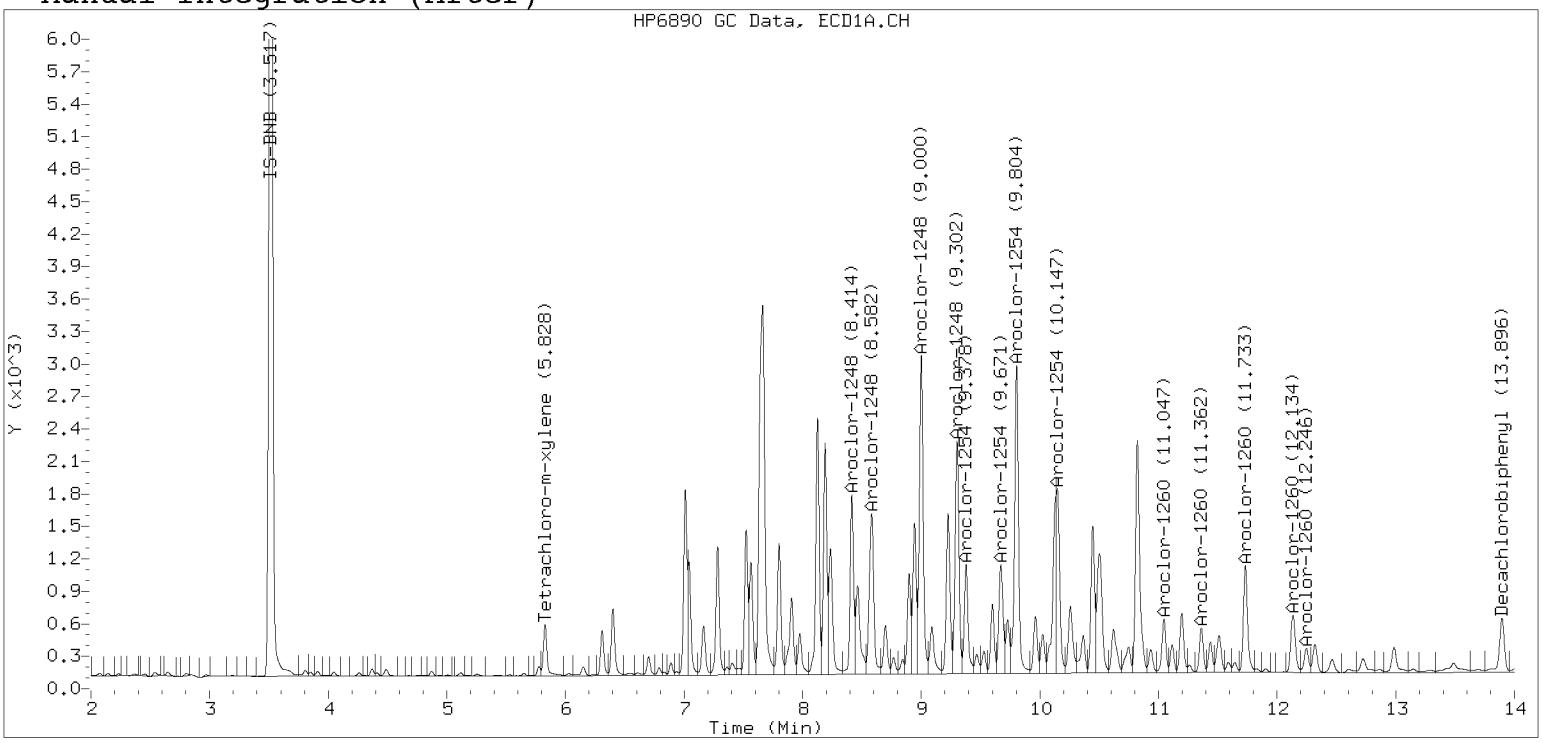


ZB-35 Manual Integration: YES

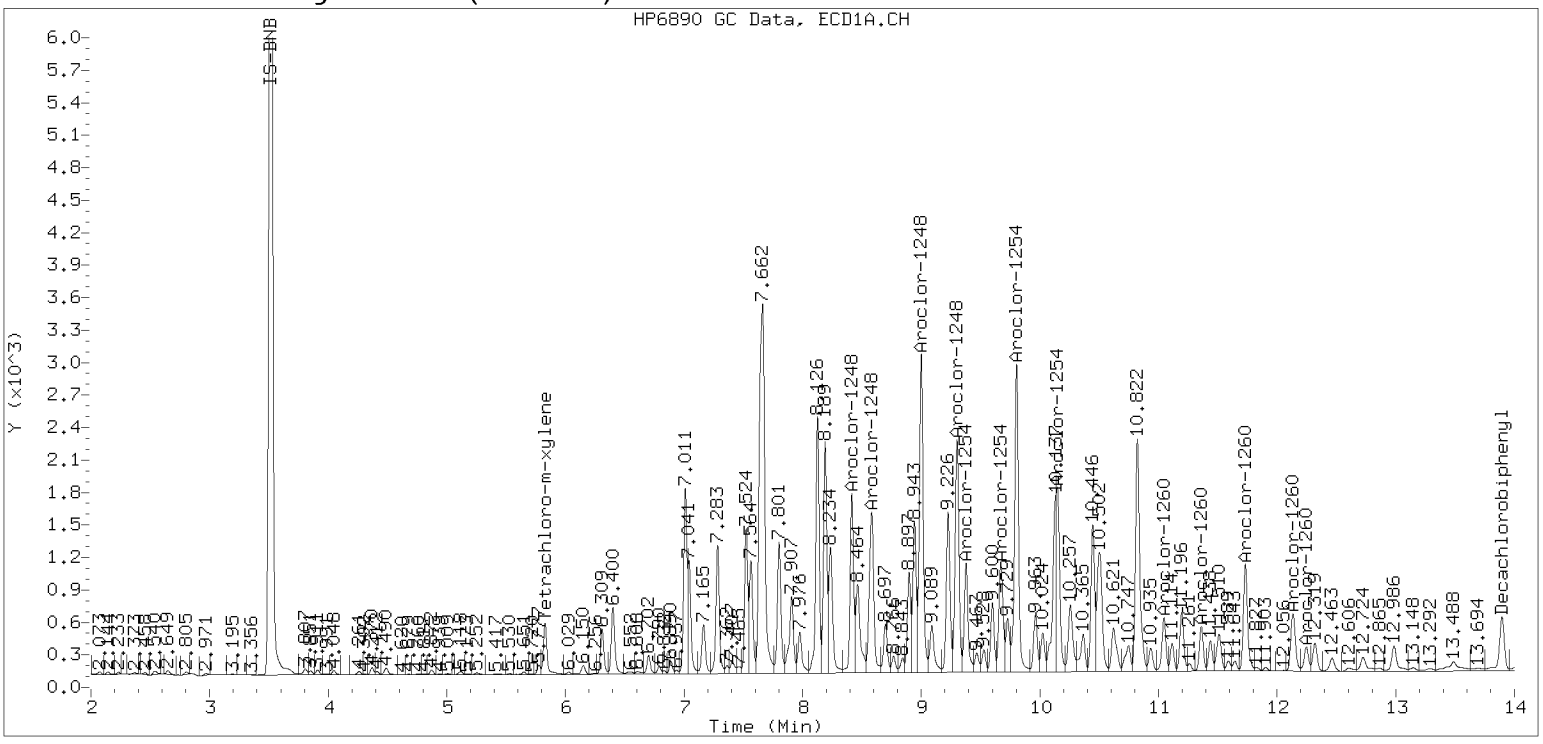
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052364ECD7.D Injection Date: 06-JAN-2023 10:31

Manual Integration (After)



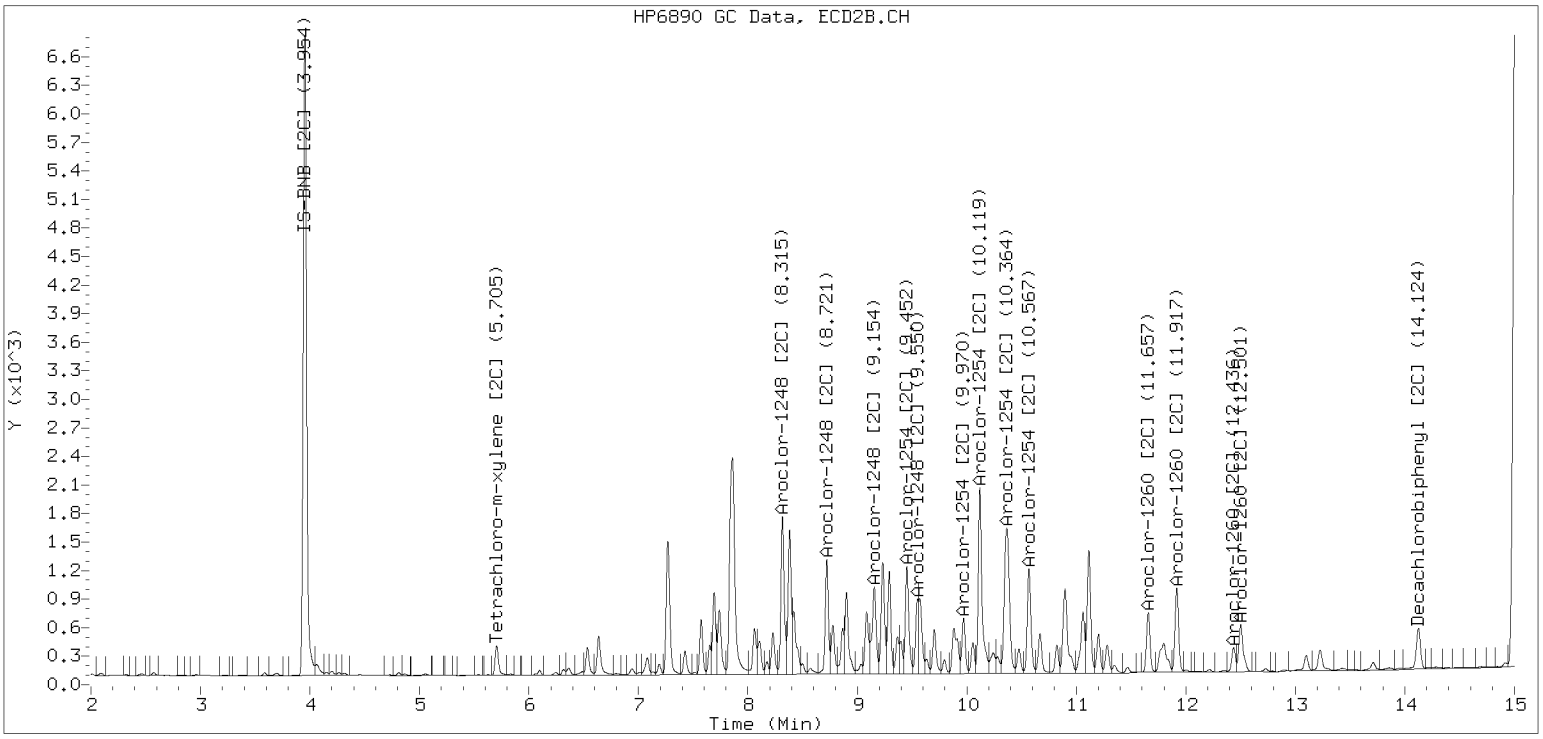
Processed Integration (Before)



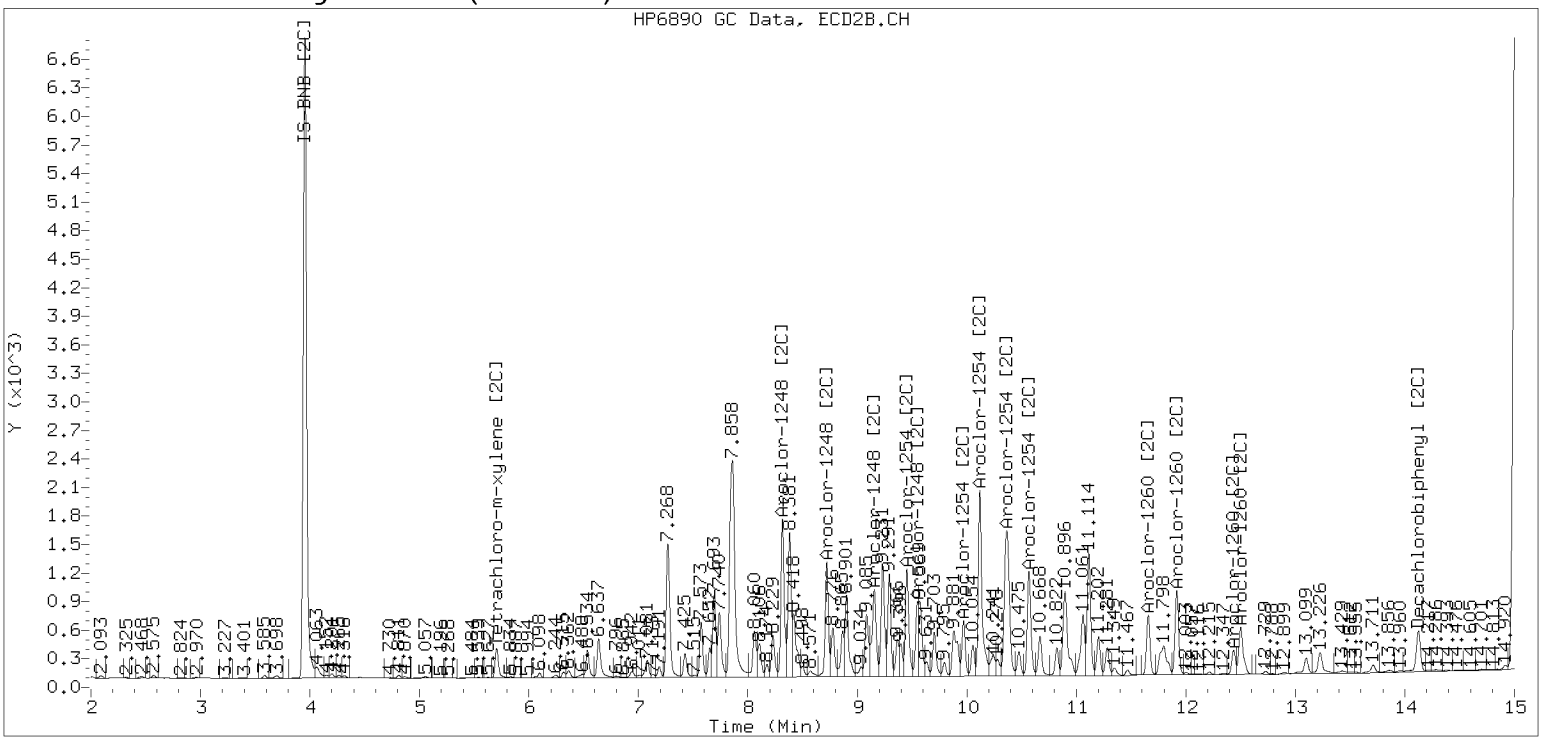
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230105.b/230105.b/01052364ECD7.D Injection Date: 06-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-23 B	File ID:	01042330ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 19:34
% Solids:	64.12	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.56 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	107	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	67.5	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	29.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9733*	*5.71*	*71.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9733*	*3.91*	*49.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9733*	*5.29*	*66.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9733*	*4.15*	*52.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042330ECD7.D
Data file 2: /230104.b/230104.b/01042330ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-23
Client ID:
Injection Date: 04-JAN-2023 19:34
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	136134	5.701	-0.006	92205	19.6	20.8	5.9	Tetrachloro-m-xylene
13.895	-0.006	130403	14.123	-0.005	140362	28.7	26.5	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	489168	9.3
Hexabromobiphenyl	798898	496475	-37.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	323011	29.7
Hexabromobiphenyl	362541	372812	2.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.018	99712	474.1	1	8.311	-0.009	121663	922.0
Aroclor-1248	2	8.577	-0.027	114701	427.1	2	8.717	-0.009	80322	578.7
Aroclor-1248	3	8.994	-0.029	190054	393.4	3	9.149	-0.022	73965	438.1
Aroclor-1248	4	9.297	-0.014	126634	535.1	4	9.553	-0.039	41154	207.7
		Total Col1Ave (4 peaks):			457.4		Total Col2Ave (4 peaks):			536.6 RPD = 16
		Corrected Ave (3 peaks):			431.5		Corrected Ave (3 peaks):			408.2 RPD = 6
Aroclor-1254	1	9.297	-0.024	126634	294.0	1	9.449	-0.011	69232	332.4
Aroclor-1254	2	9.372	-0.029	57910	345.7	2	9.966	-0.011	36080	215.5
Aroclor-1254	3	9.666	-0.029	68241	250.9	3	10.114	-0.014	139550	387.7
Aroclor-1254	4	9.798	-0.033	176017	332.0	4	10.353	-0.024	140734	377.6
Aroclor-1254	5	10.139	-0.050	161934	445.5	5	10.564	-0.011	68281	379.8
		Total Col1Ave (5 peaks):			333.6		Total Col2Ave (5 peaks):			338.6 RPD = 1
		Corrected Ave (4 peaks):			305.6		Corrected Ave (4 peaks):			326.3 RPD = 7
Aroclor-1260	1	11.044	-0.012	31029	171.7	1	11.653	-0.007	38535	195.8
Aroclor-1260	2	11.359	-0.013	23345	124.9	2	11.914	-0.009	58181	117.8
Aroclor-1260	3	11.729	-0.017	62462	127.2	3	12.433	-0.010	20350	154.8
Aroclor-1260	4	12.130	-0.020	35647	142.5	4	12.498	-0.008	42445	128.9
Aroclor-1260	5	12.244	-0.011	19081	186.4	NS	---			----
		Total Col1Ave (5 peaks):			150.5		Total Col2Ave (4 peaks):			149.3 RPD = 1
		Corrected Ave (4 peaks):			141.6		Corrected Ave (3 peaks):			133.8 RPD = 6
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 3994062 Col1 Total PCB = 0.9 ppm*

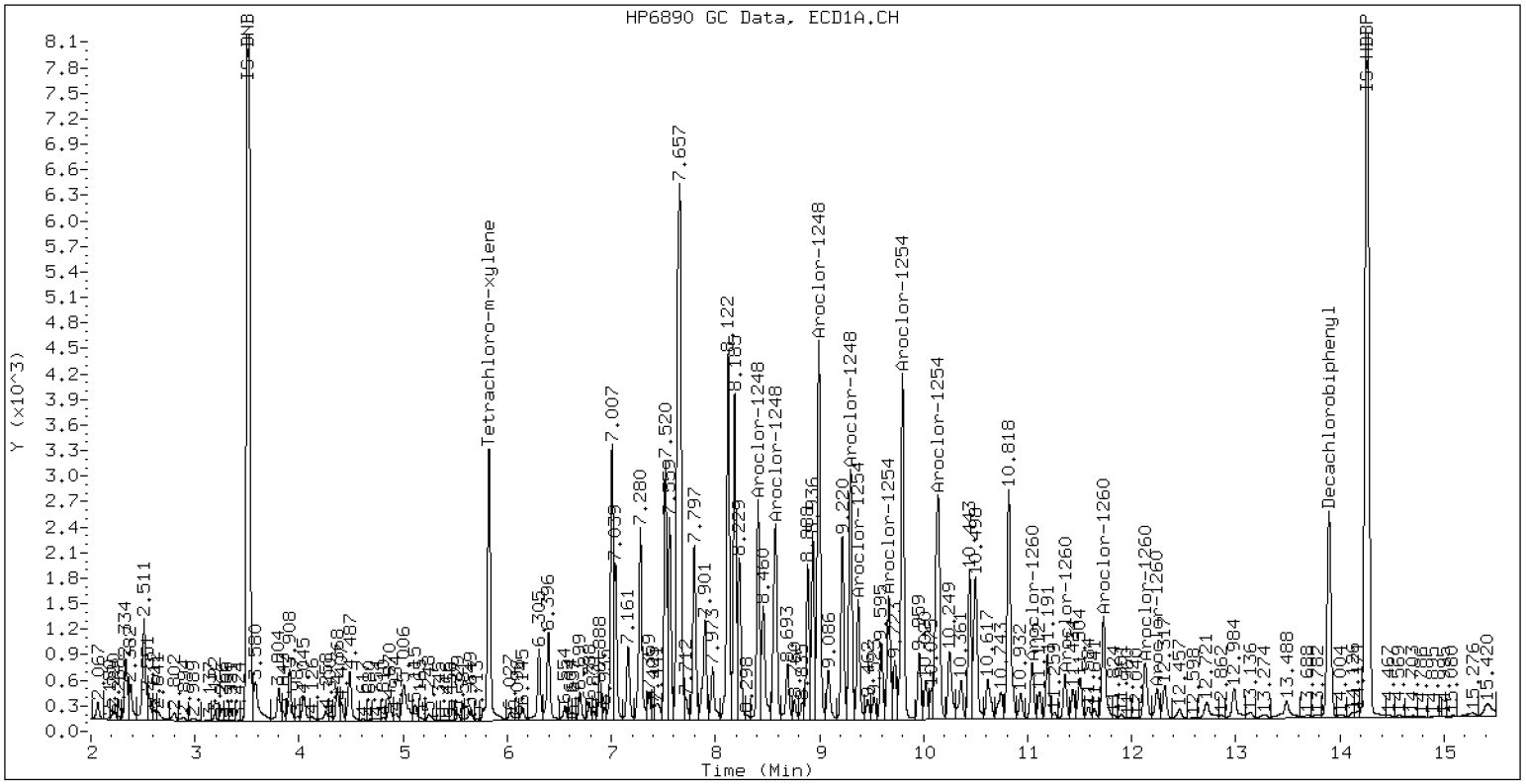
Total PCB Area Col2 (5.807 - 14.028) = 2958544 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

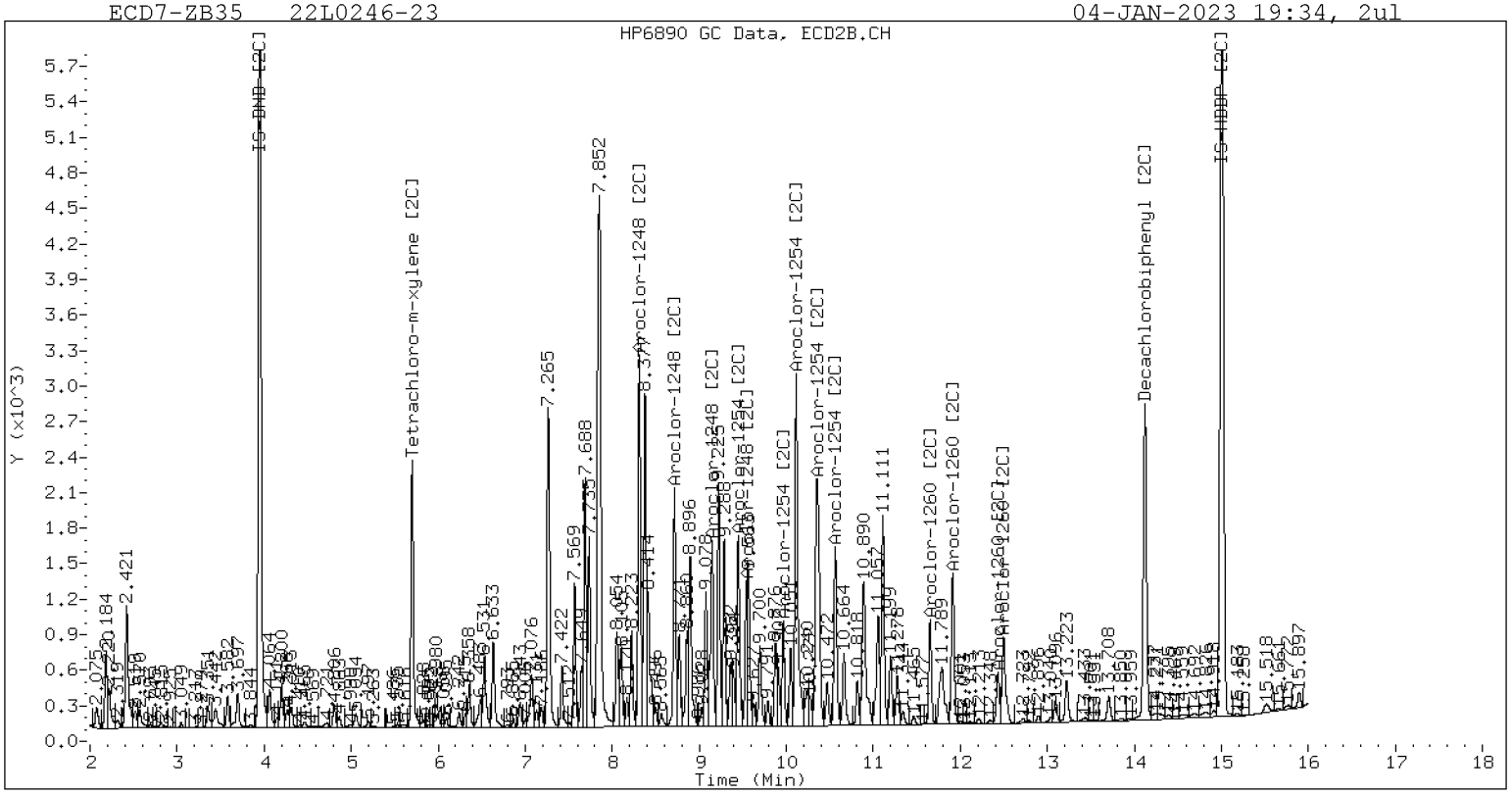
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-23 04-JAN-2023 19:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-23 04-JAN-2023 19:34, 2ul

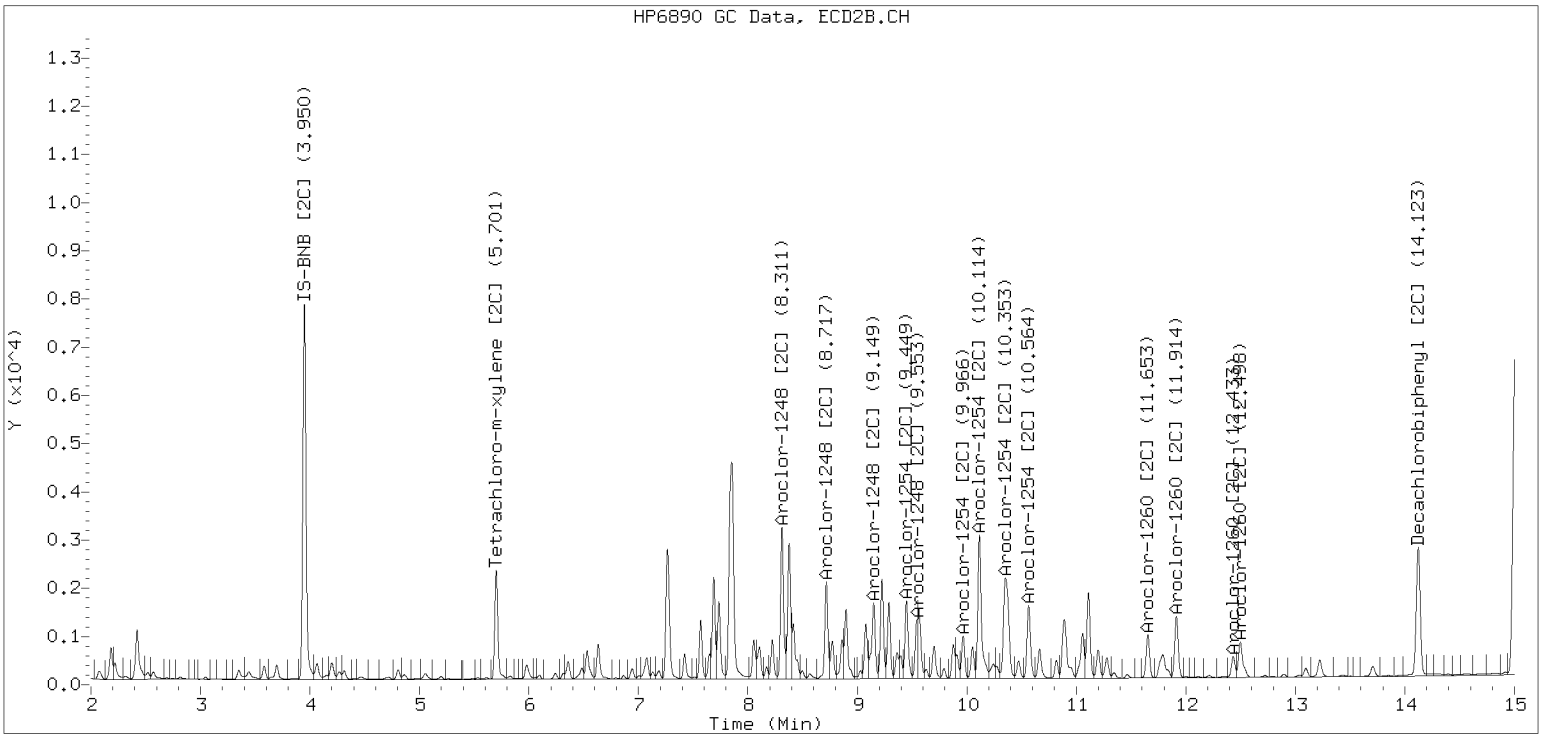


ZB-35 Manual Integration: YES

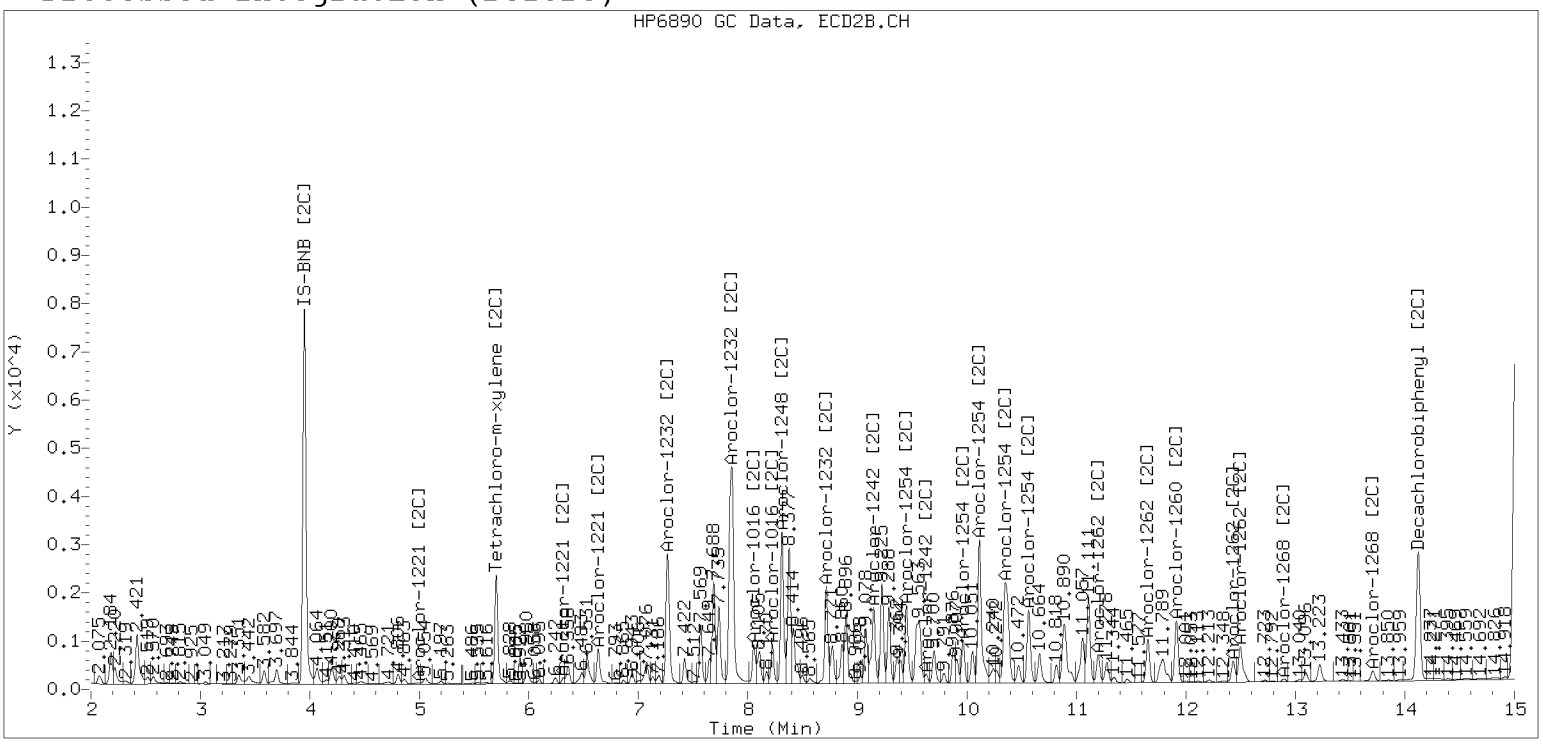
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042330ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-24 B	File ID:	01042331ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 19:56
% Solids:	61.48	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.39 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	4.2	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	11.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9772*	*7.70*	*96.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9772*	*5.31*	*66.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9772*	*6.95*	*87.1*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9772*	*5.93*	*74.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042331ECD7.D
Data file 2: /230104.b/230104.b/01042331ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-24
Client ID:
Injection Date: 04-JAN-2023 19:56
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.004	173751	5.702	-0.005	126361	26.6	29.7	11.1	Tetrachloro-m-xylene
13.896	-0.006	186959	14.123	-0.005	195417	38.6	34.8	10.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460834	2.9
Hexabromobiphenyl	798898	528296	-33.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	310184	24.5
Hexabromobiphenyl	362541	395102	9.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.301	-0.020	3486	8.6	1	9.450	-0.010	2498	12.5
Aroclor-1254	2	9.373	-0.029	1256	8.0	2	9.917	-0.061	2292	14.3
Aroclor-1254	3	9.665	-0.029	1197	4.7	3	10.056	-0.073	10613	30.7
Aroclor-1254	4	9.796	-0.035	3190	6.4	4	10.371	-0.006	9995	27.9
Aroclor-1254	5	10.121	-0.069	12318	36.0	5	10.564	-0.011	12260	71.0
	Total Col1Ave (5 peaks):				12.7	Total Col2Ave (5 peaks):				31.3 RPD = 84*
	Corrected Ave (4 peaks):				6.9	Corrected Ave (4 peaks):				21.3 RPD = 102*
Aroclor-1260	1	11.043	-0.013	17070	88.8	1	11.653	-0.007	8817	42.3
Aroclor-1260	2	11.359	-0.013	10374	52.2	2	11.914	-0.009	27457	52.5
Aroclor-1260	3	11.729	-0.017	27364	52.4	3	12.432	-0.010	12273	88.1
Aroclor-1260	4	12.130	-0.020	10785	40.5	4	12.498	-0.008	18582	53.3
Aroclor-1260	5	12.244	-0.011	12014	110.3	NS	---			----
	Total Col1Ave (5 peaks):				68.8	Total Col2Ave (4 peaks):				59.0 RPD = 15
	Corrected Ave (4 peaks):				58.5	Corrected Ave (3 peaks):				49.3 RPD = 17
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 362439 Col1 Total PCB = 0.1 ppm*

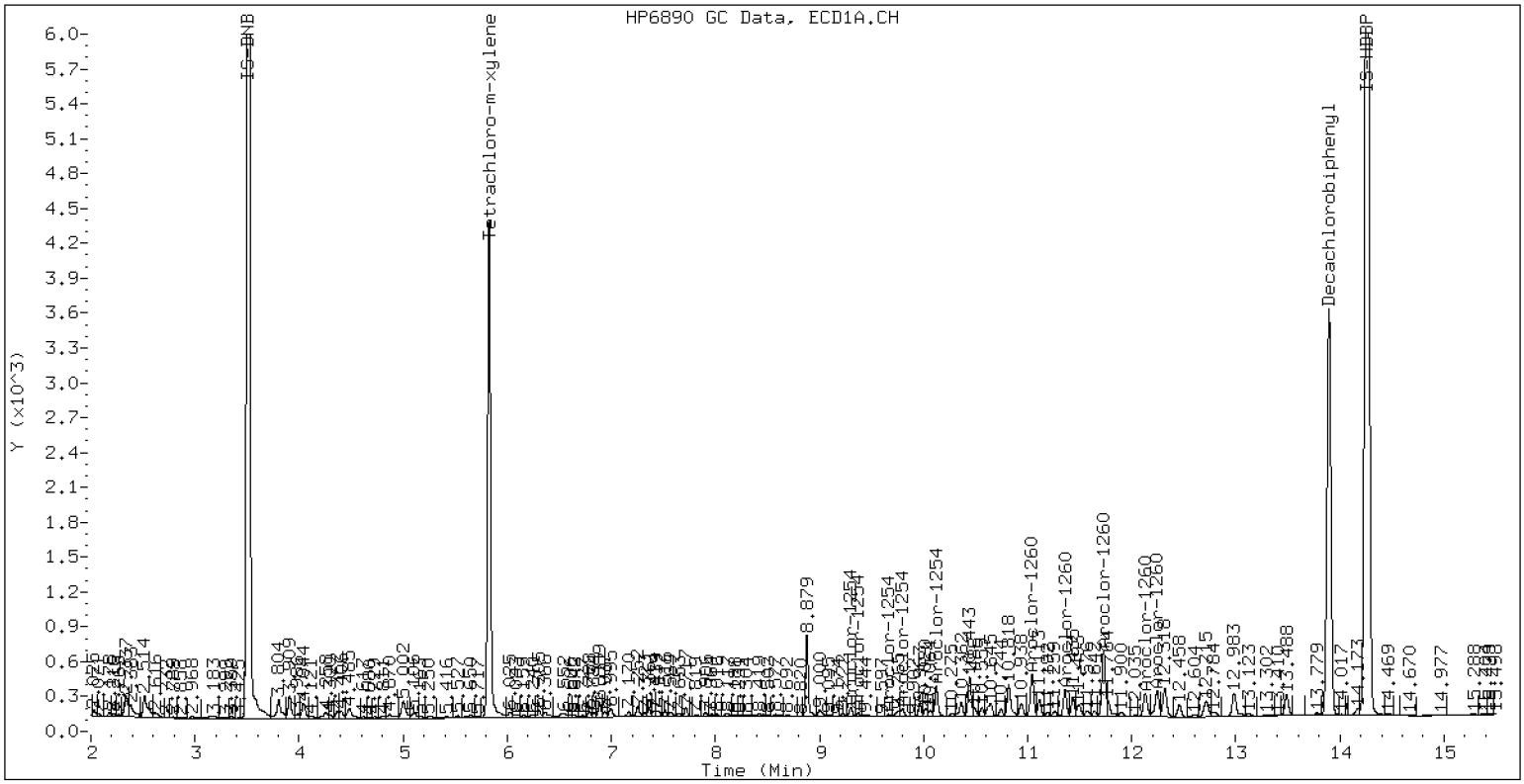
Total PCB Area Col2 (5.807 - 14.028) = 303548 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

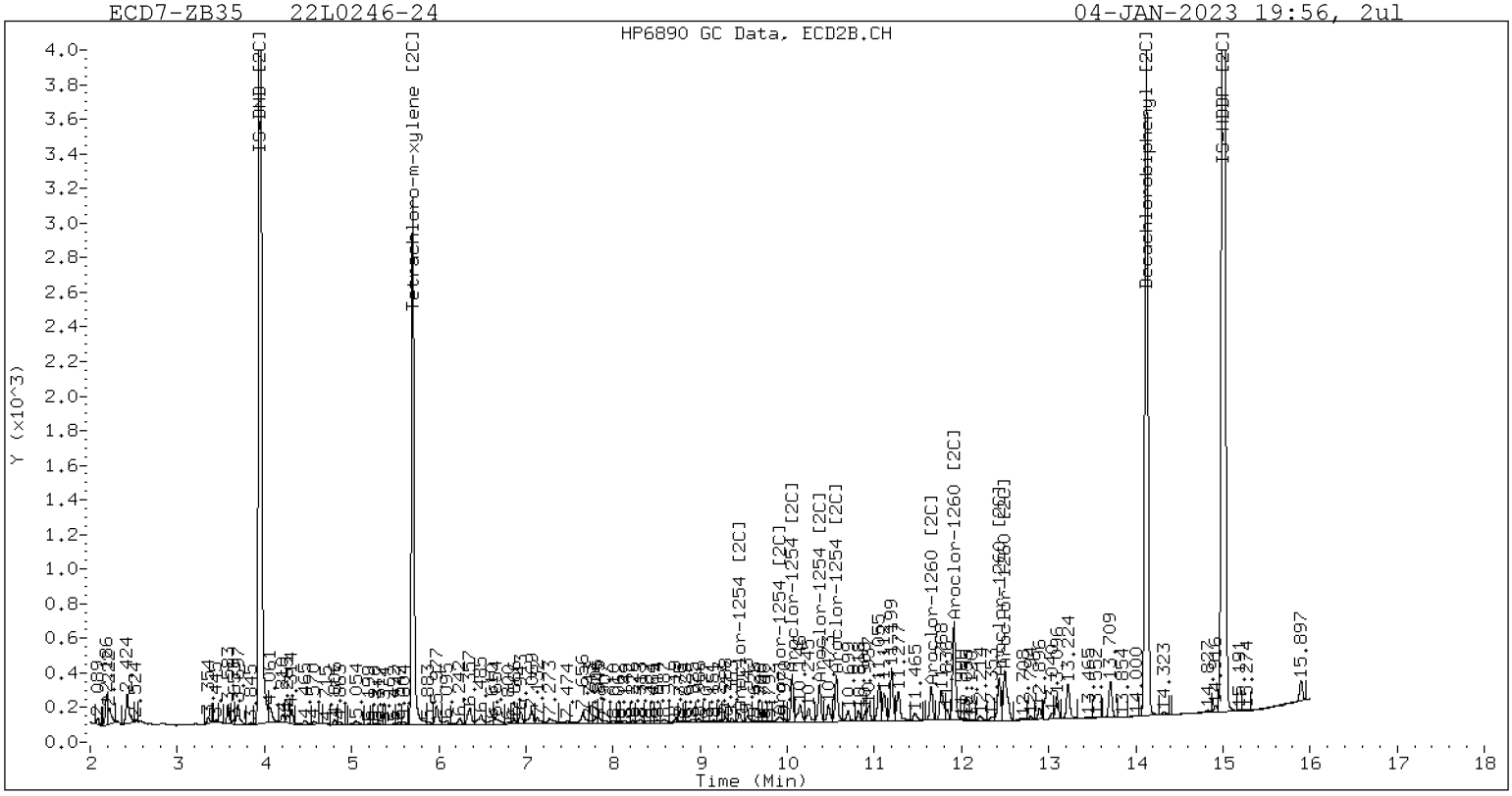
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-24 04-JAN-2023 19:56, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-24 04-JAN-2023 19:56, 2ul

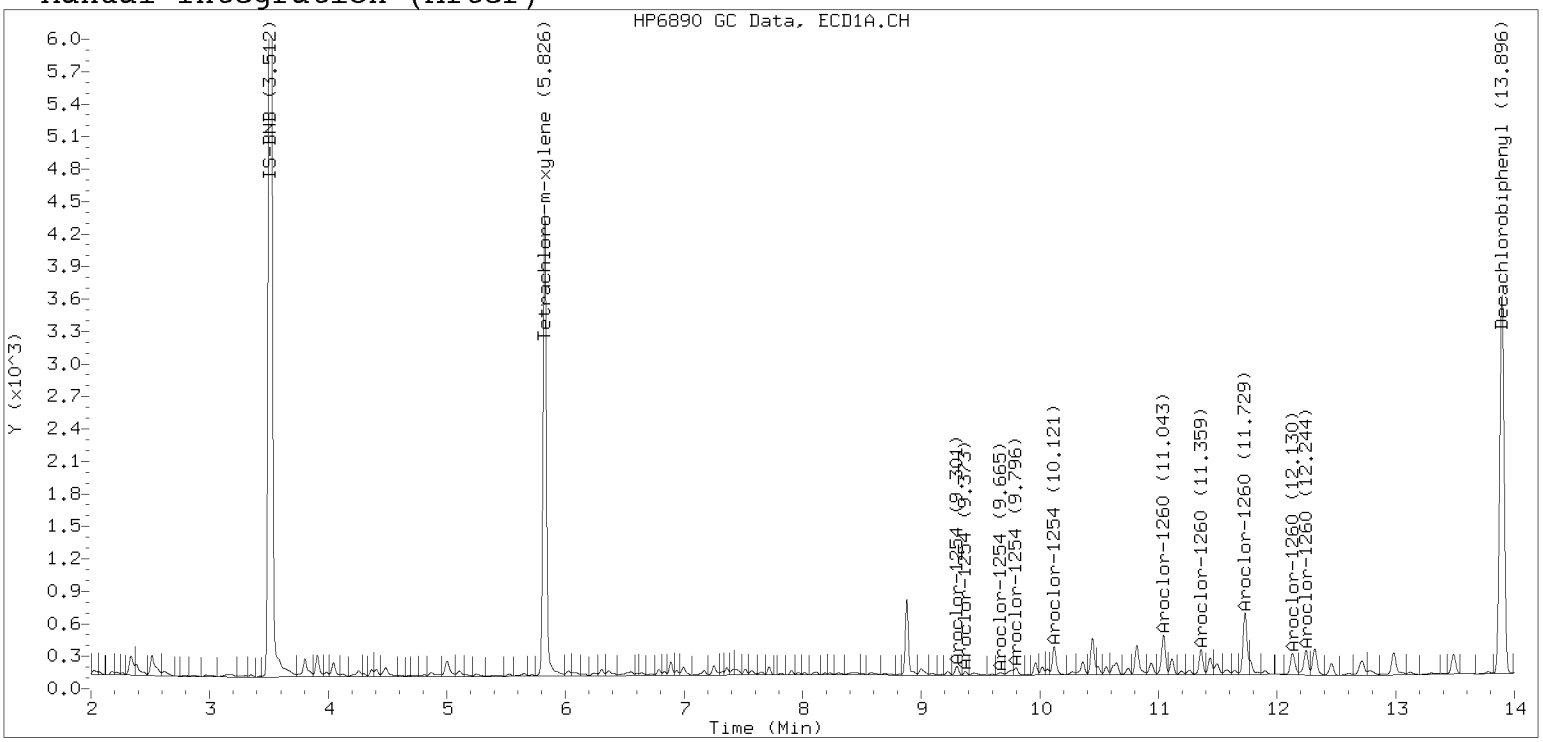


ZB-35 Manual Integration: YES

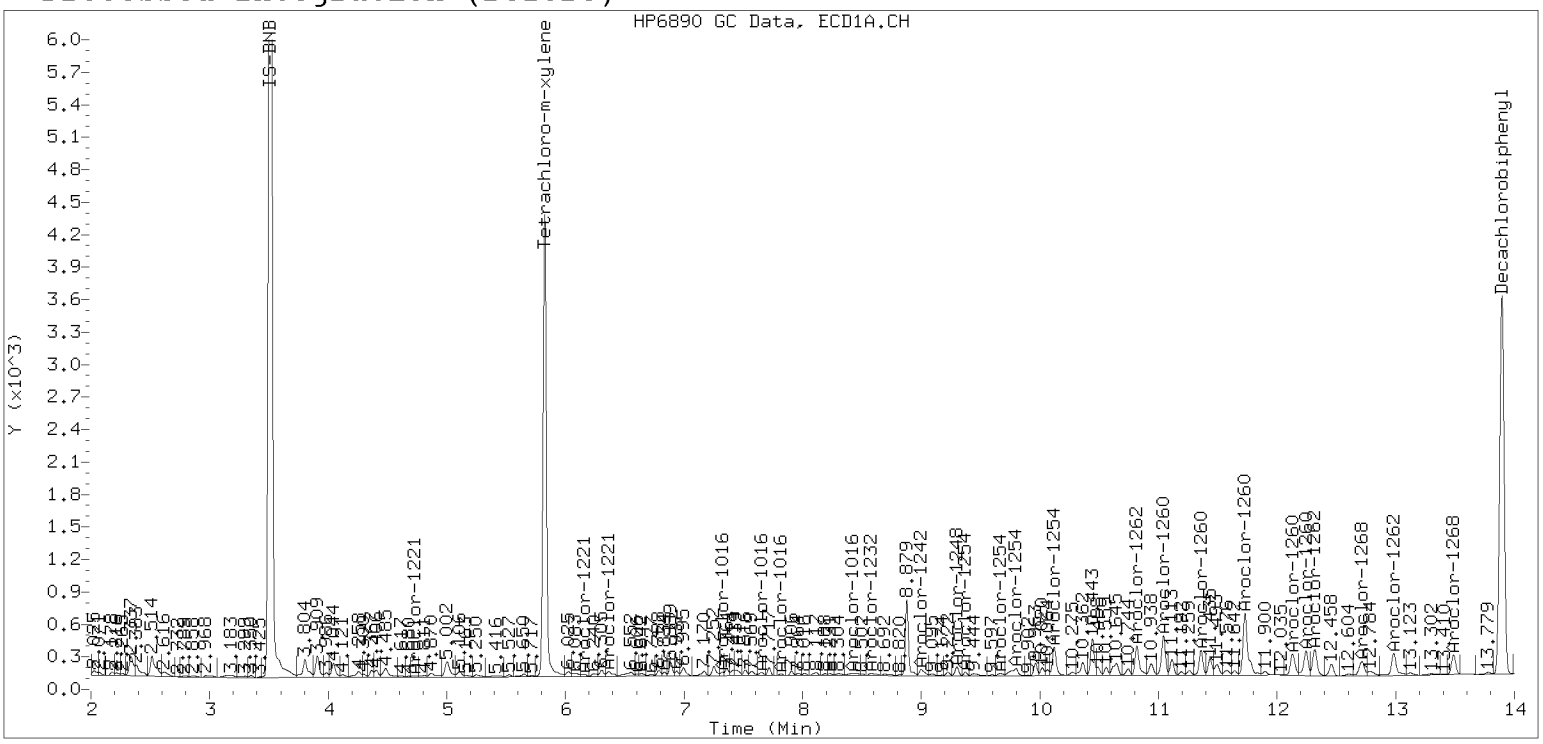
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042331ECD7.D Injection Date: 04-JAN-2023 19:56

Manual Integration (After)



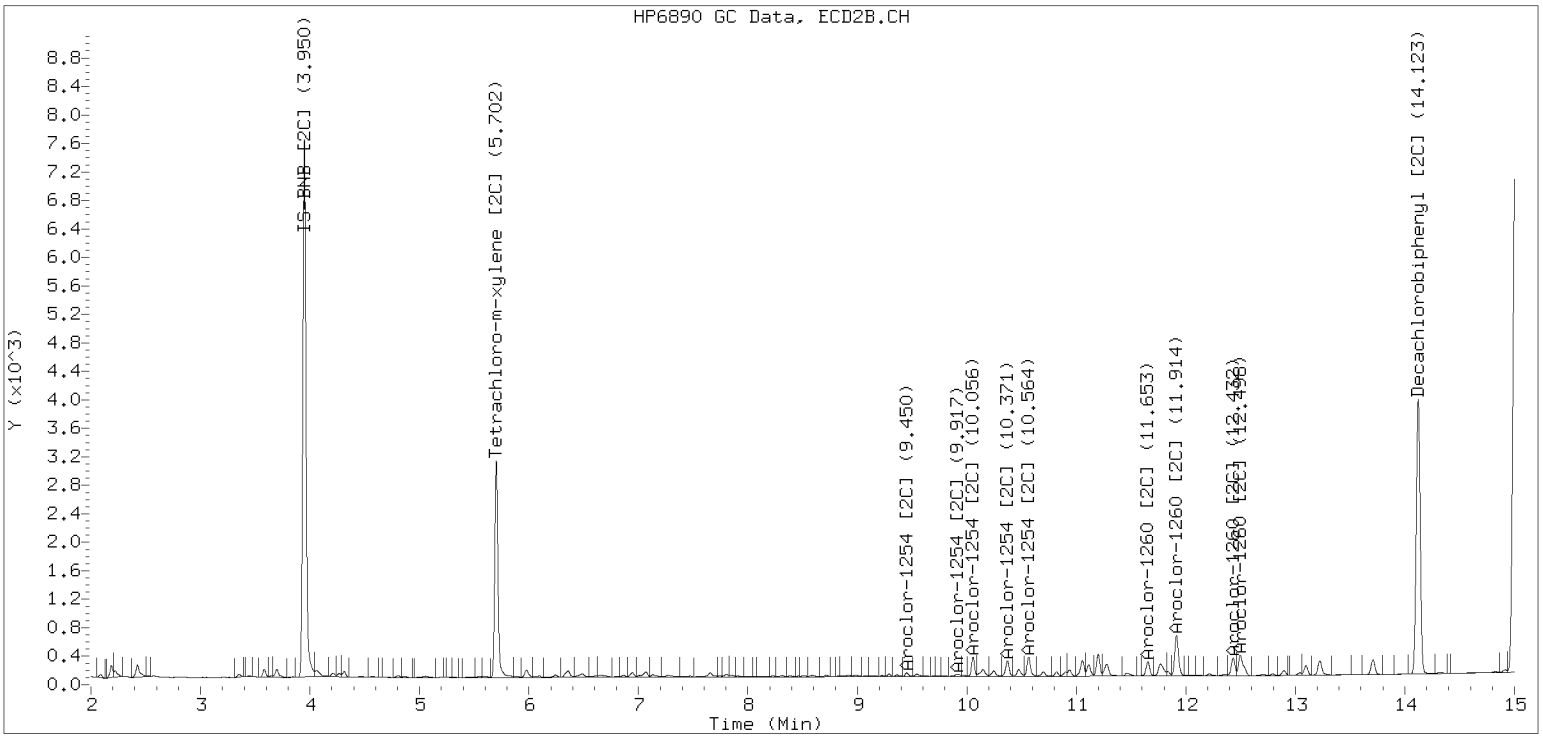
Processed Integration (Before)



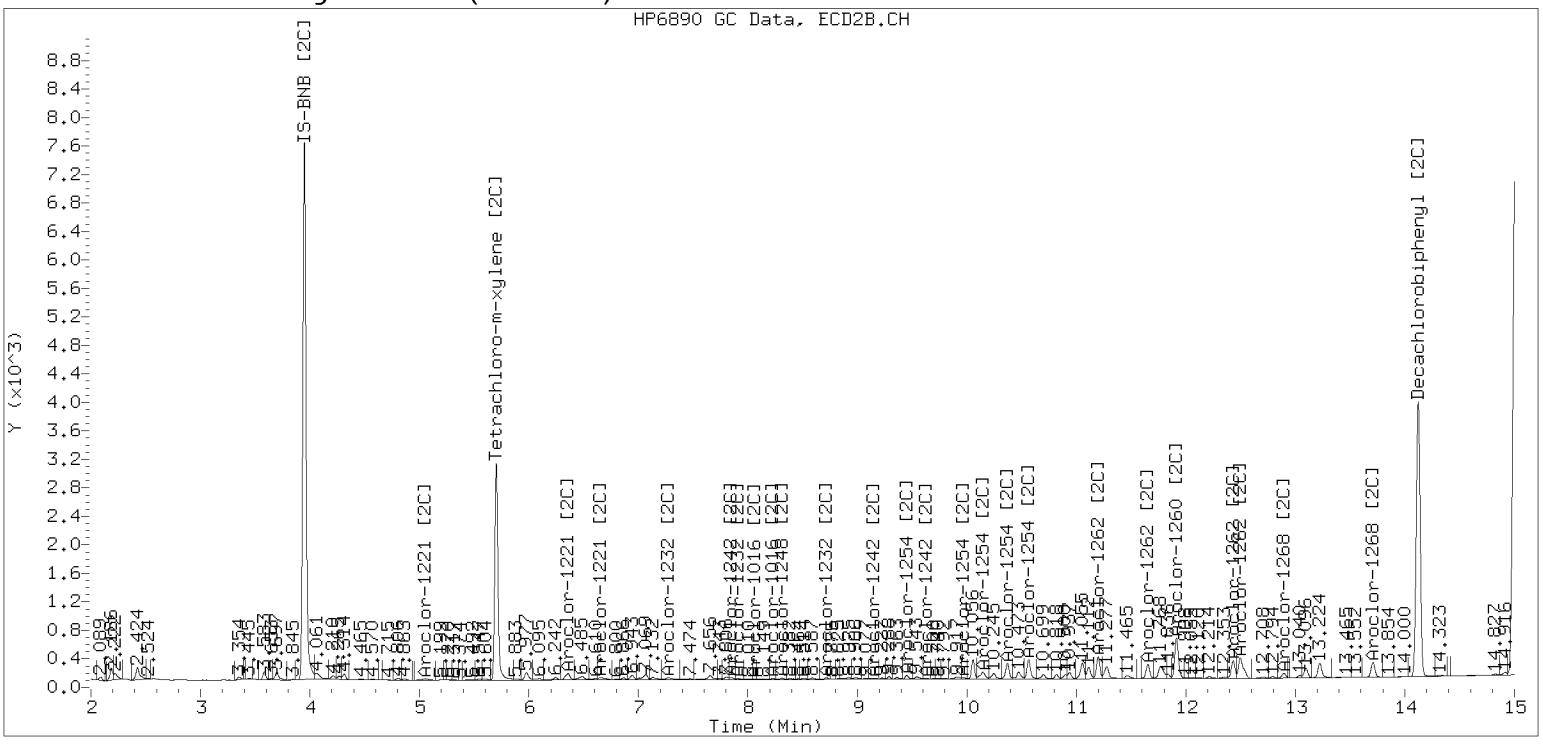
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042331ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC779J

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-25 B	File ID:	01042332ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 20:17
% Solids:	70.44	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.79 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9800*	*7.73*	*96.8*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9800*	*5.03*	*63.0*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042332ECD7.D
Data file 2: /230104.b/230104.b/01042332ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-25
Client ID:
Injection Date: 04-JAN-2023 20:17
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	169467	5.701	-0.006	125828	25.2	29.1	14.4	Tetrachloro-m-xylene
13.897	-0.004	213760	14.125	-0.003	208593	38.7	33.9	13.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	474227	5.9
Hexabromobiphenyl	798898	601970	-24.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	315008	26.5
Hexabromobiphenyl	362541	432854	19.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 177367 Col1 Total PCB = 0.0 ppm*

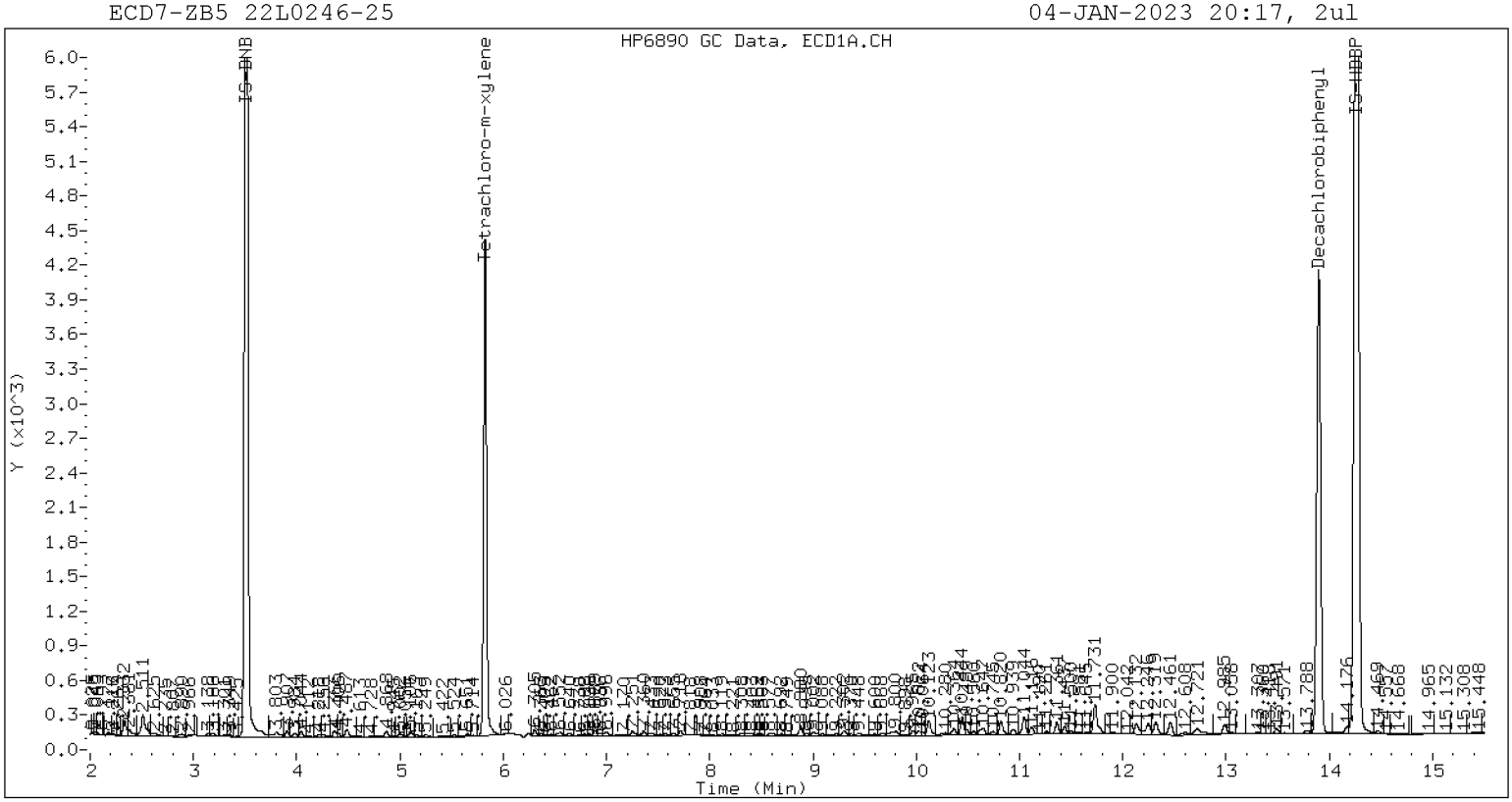
Total PCB Area Col2 (5.807 - 14.028) = 140723 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

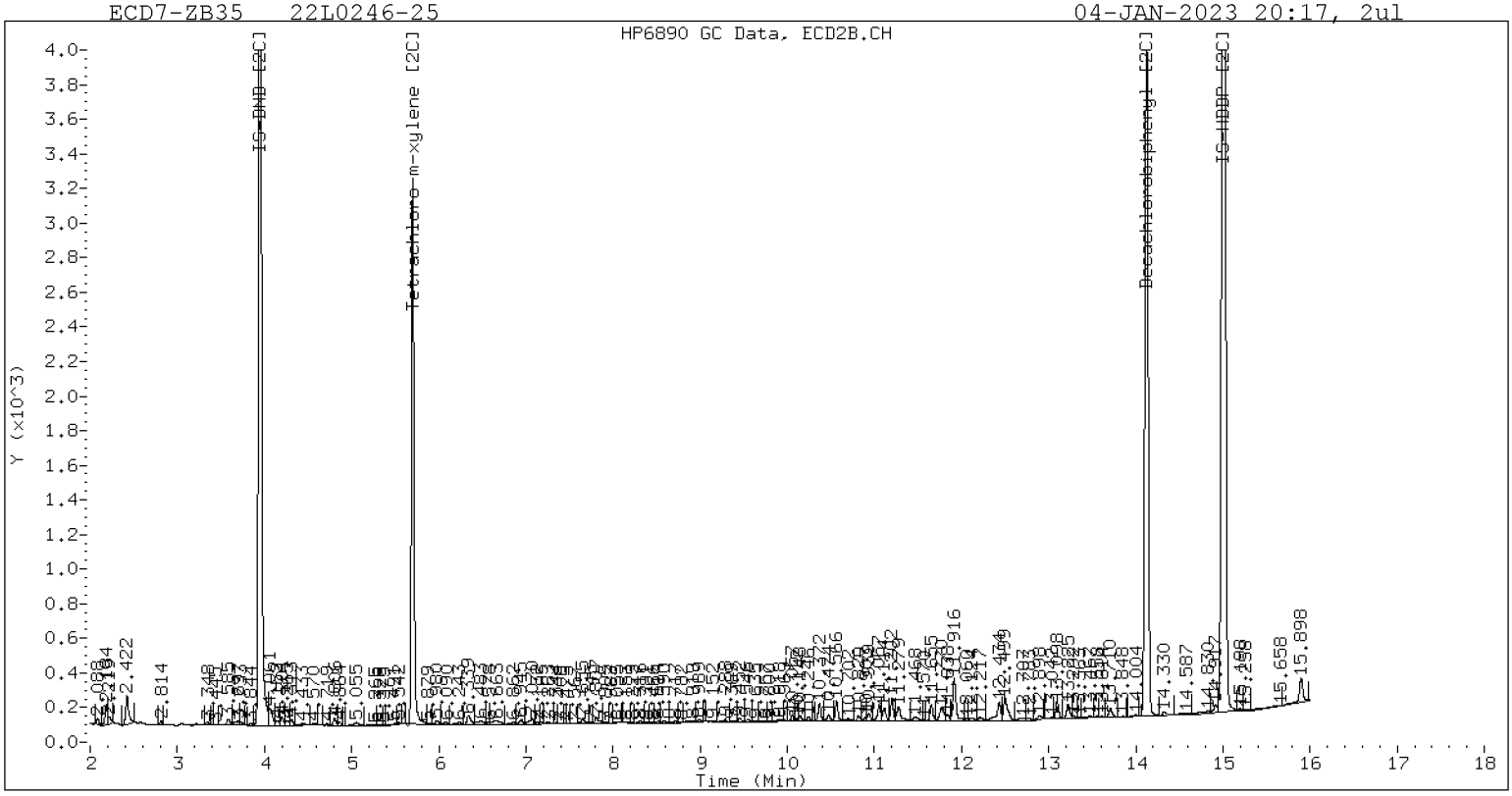
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-25 04-JAN-2023 20:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-25 04-JAN-2023 20:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-26 B	File ID:	01042333ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 20:38
% Solids:	69.90	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.92 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	8.1	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	9.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	7.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9833*	*7.24*	*90.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9833*	*4.66*	*58.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9833*	*6.51*	*81.6*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9833*	*5.78*	*72.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042333ECD7.D
Data file 2: /230104.b/230104.b/01042333ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-26
Client ID:
Injection Date: 04-JAN-2023 20:38
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.004	159499	5.702	-0.004	124919	23.3	29.0	21.6	Tetrachloro-m-xylene
13.895	-0.006	185336	14.122	-0.006	192720	36.3	32.6	10.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482513	7.8
Hexabromobiphenyl	798898	557251	-30.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	314434	26.2
Hexabromobiphenyl	362541	416041	14.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.018	8041	38.8	1	8.312	-0.008	6024	46.9
Aroclor-1248	2	8.576	-0.029	6613	25.0	2	8.718	-0.008	5109	37.8
Aroclor-1248	3	8.996	-0.027	12948	27.2	3	9.148	-0.022	6189	37.7
Aroclor-1248	4	9.296	-0.015	14039	60.1	4	9.537	-0.056	7122	36.9
		Total Col1Ave (4 peaks):			37.8		Total Col2Ave (4 peaks):			39.8 RPD = 5
		Corrected Ave (3 peaks):			30.3		Corrected Ave (3 peaks):			37.5 RPD = 21
										40.8
Aroclor-1254	1	9.296	-0.025	14039	33.0	1	9.449	-0.011	10603	52.3
Aroclor-1254	2	9.421	0.019	3974	24.1	2	9.966	-0.012	4446	27.3
Aroclor-1254	3	9.676	-0.018	14948	55.7	3	10.112	-0.016	15171	43.3
Aroclor-1254	4	9.798	-0.033	23548	45.0	4	10.365	-0.013	25356	69.9
Aroclor-1254	5	10.132	-0.058	11000	30.7	5	10.565	-0.010	18178	103.9
		Total Col1Ave (5 peaks):			37.7		Total Col2Ave (5 peaks):			59.3 RPD = 45*
		Corrected Ave (4 peaks):			33.2		Corrected Ave (4 peaks):			48.2 RPD = 37
					39.45					
Aroclor-1260	1	11.043	-0.012	7935	39.1	1	11.653	-0.008	8226	37.5
Aroclor-1260	2	11.360	-0.012	8360	39.8	2	11.914	-0.010	16523	30.0
Aroclor-1260	3	11.729	-0.017	17923	32.5	3	12.431	-0.011	8138	55.5
Aroclor-1260	4	12.131	-0.019	10117	36.0	4	12.497	-0.009	12573	34.2
Aroclor-1260	5	12.245	-0.009	5789	50.4	NS	---			----
		Total Col1Ave (5 peaks):			39.6		Total Col2Ave (4 peaks):			39.3 RPD = 1
		Corrected Ave (4 peaks):			36.9		Corrected Ave (3 peaks):			33.9 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 557894 Col1 Total PCB = 0.1 ppm*

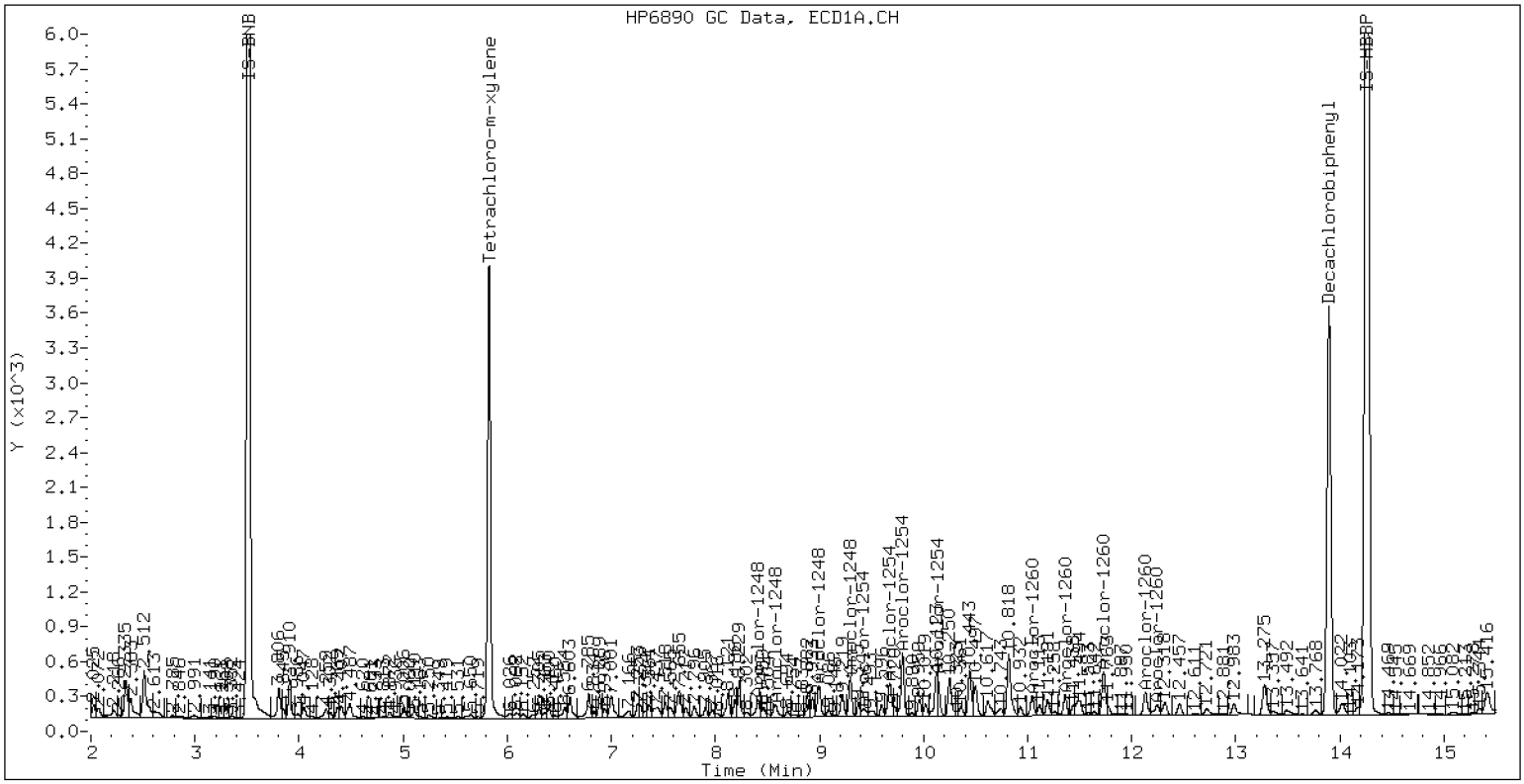
Total PCB Area Col2 (5.807 - 14.028) = 438728 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

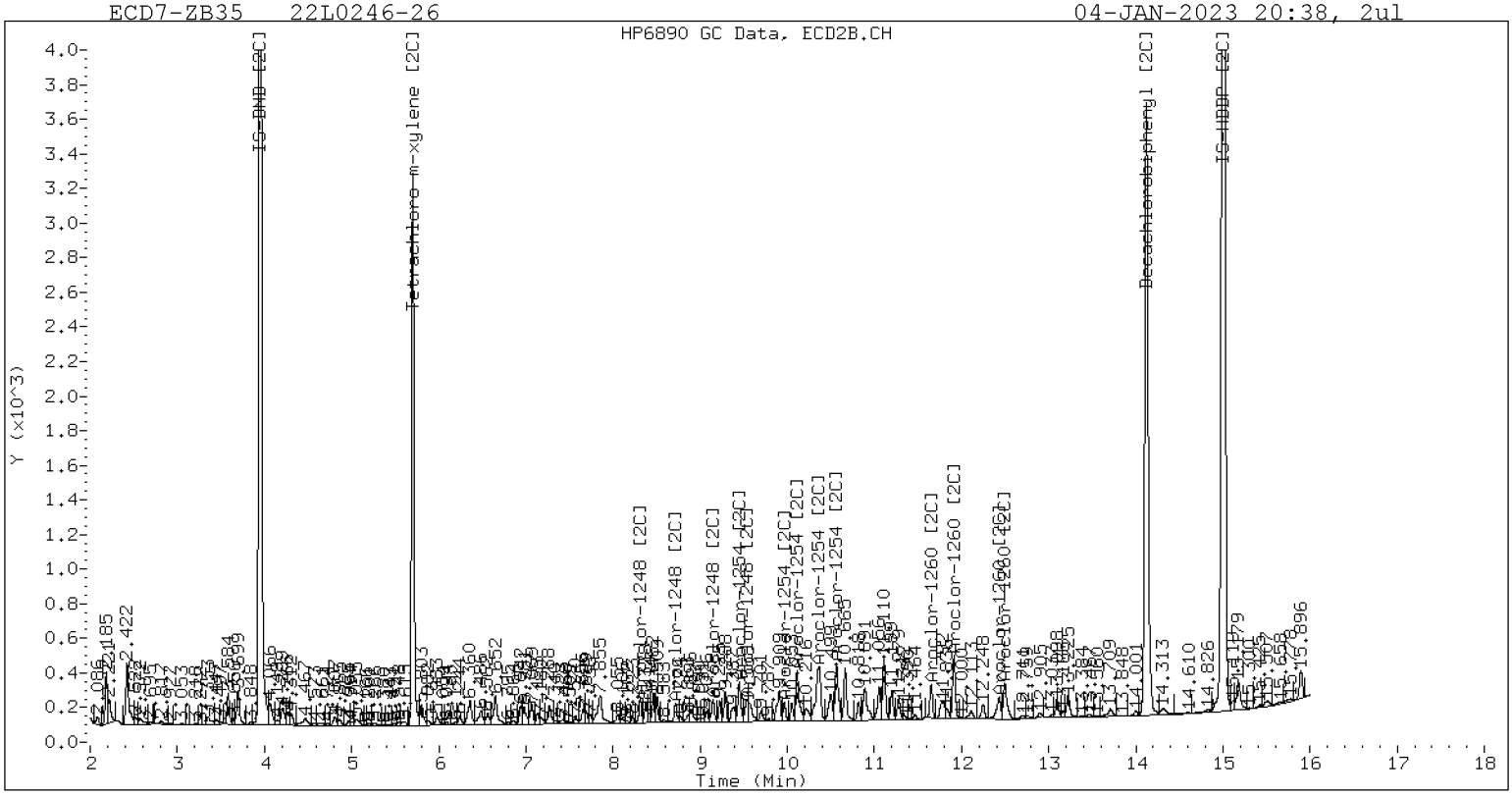
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-26 04-JAN-2023 20:38, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-26 04-JAN-2023 20:38, 2ul

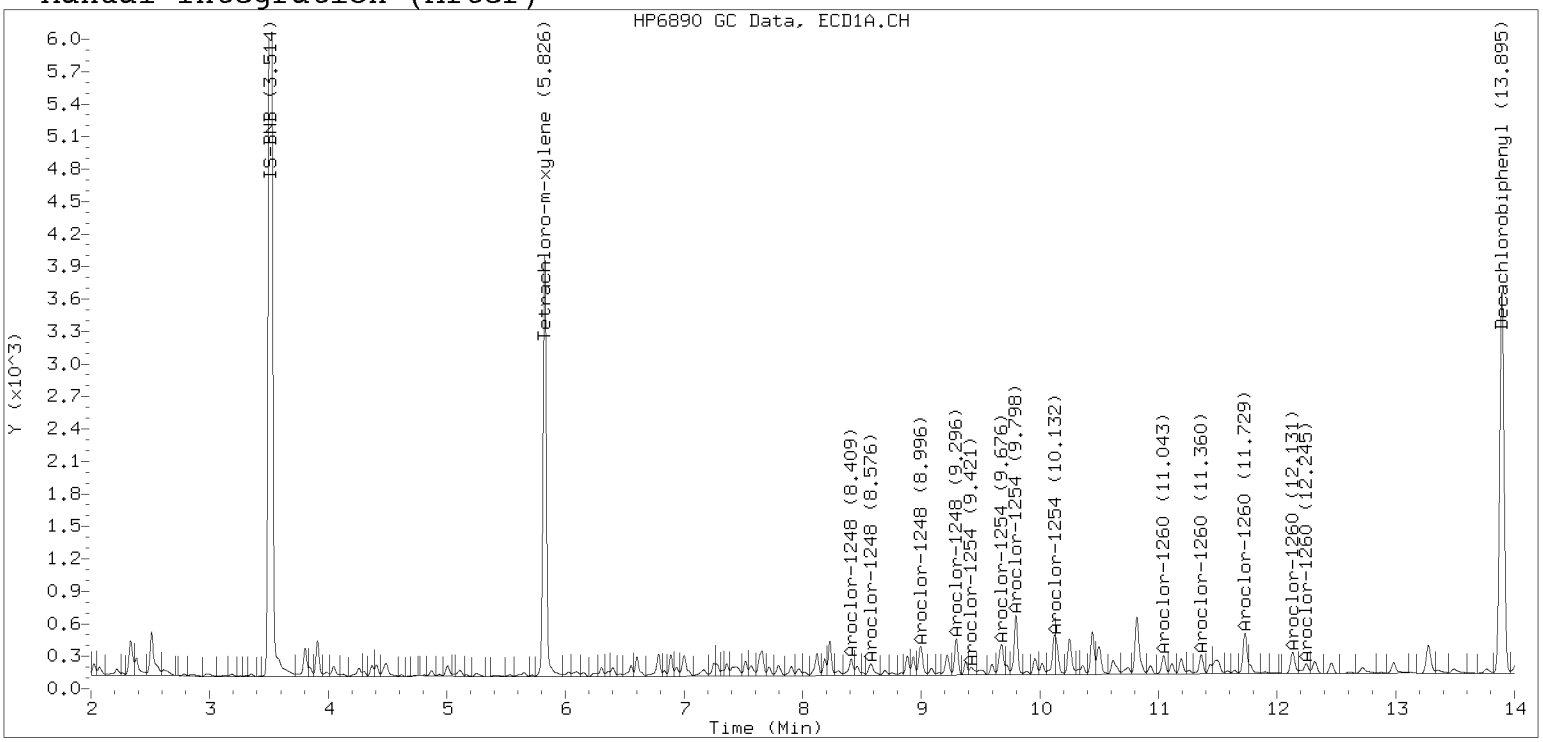


ZB-35 Manual Integration: YES

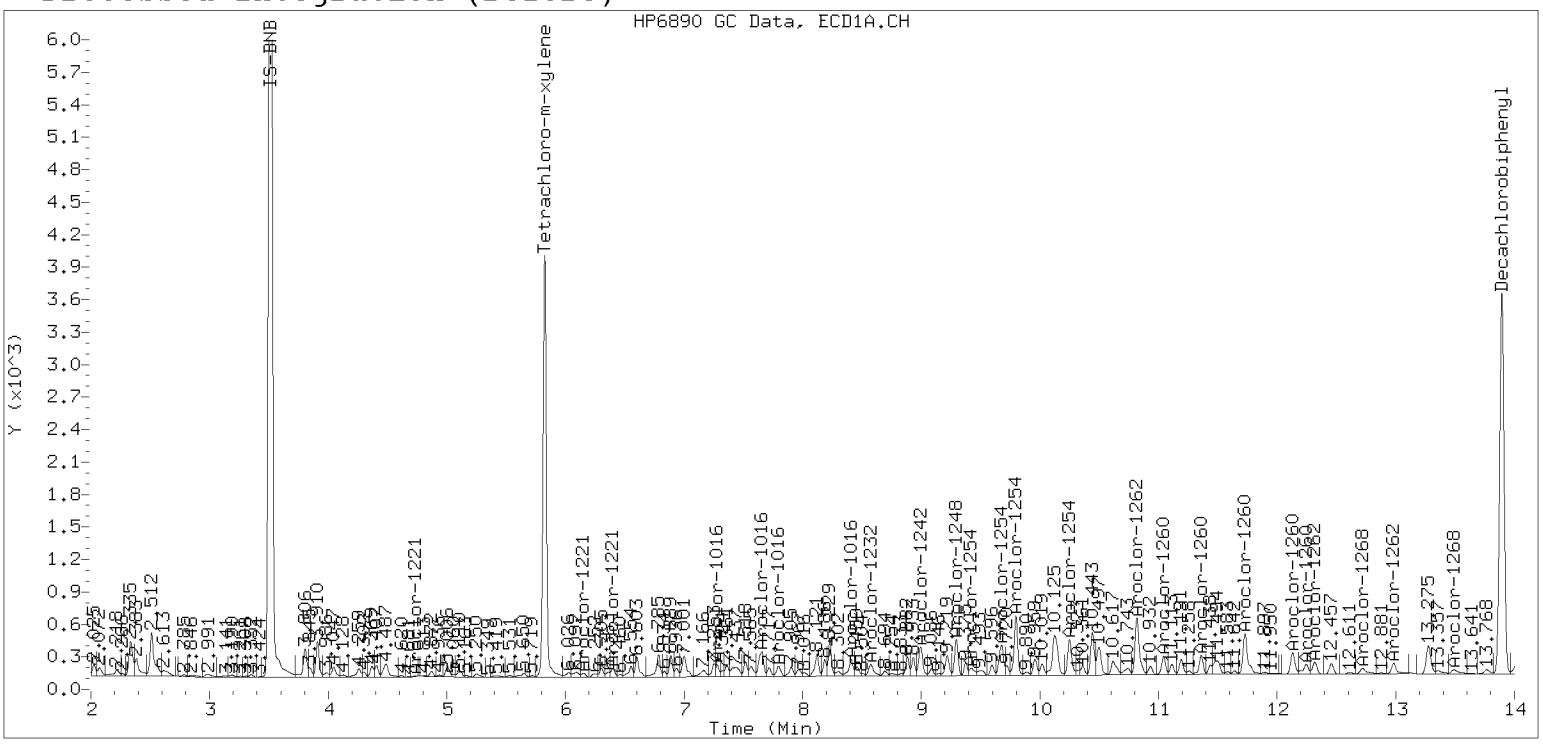
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042333ECD7.D Injection Date: 04-JAN-2023 20:38

Manual Integration (After)



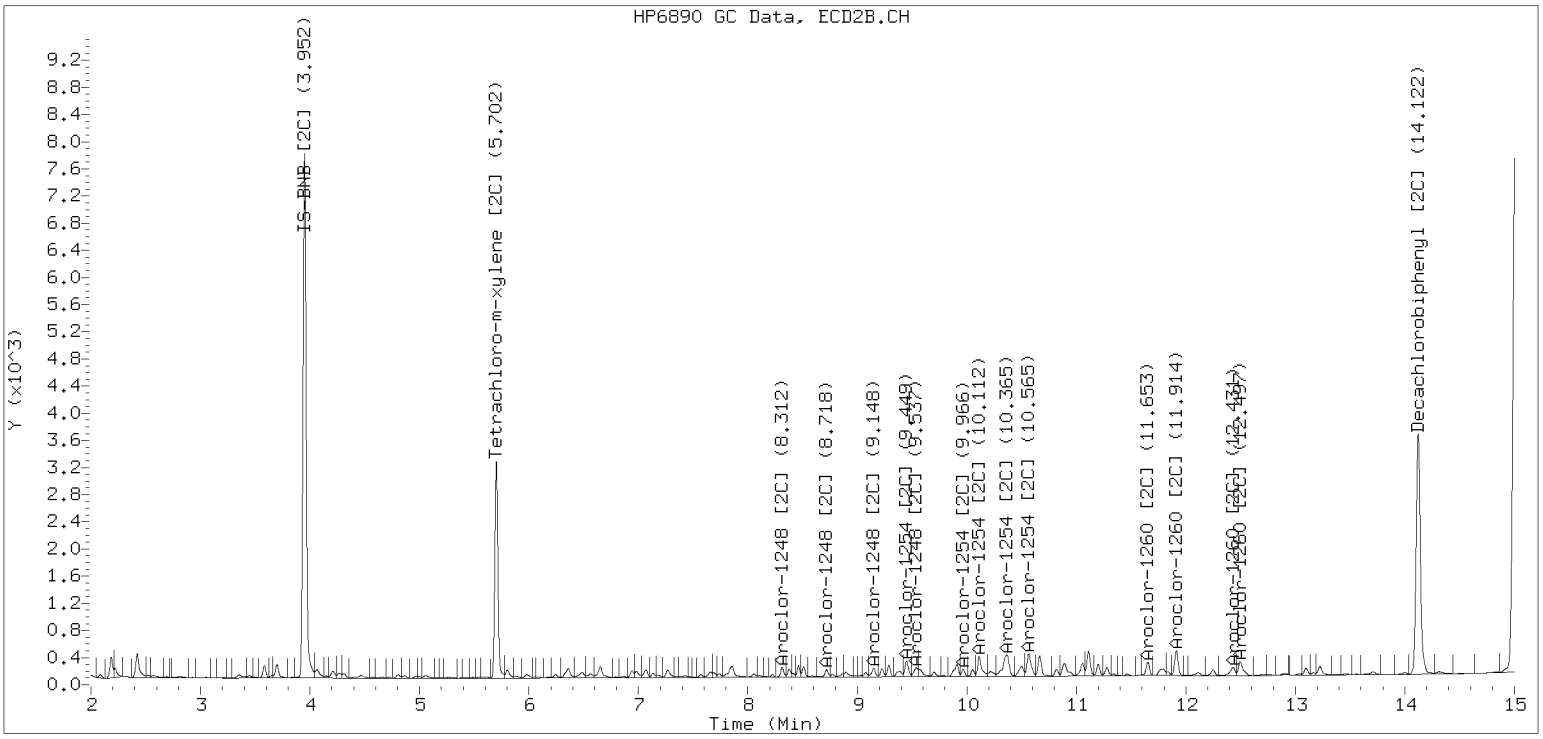
Processed Integration (Before)



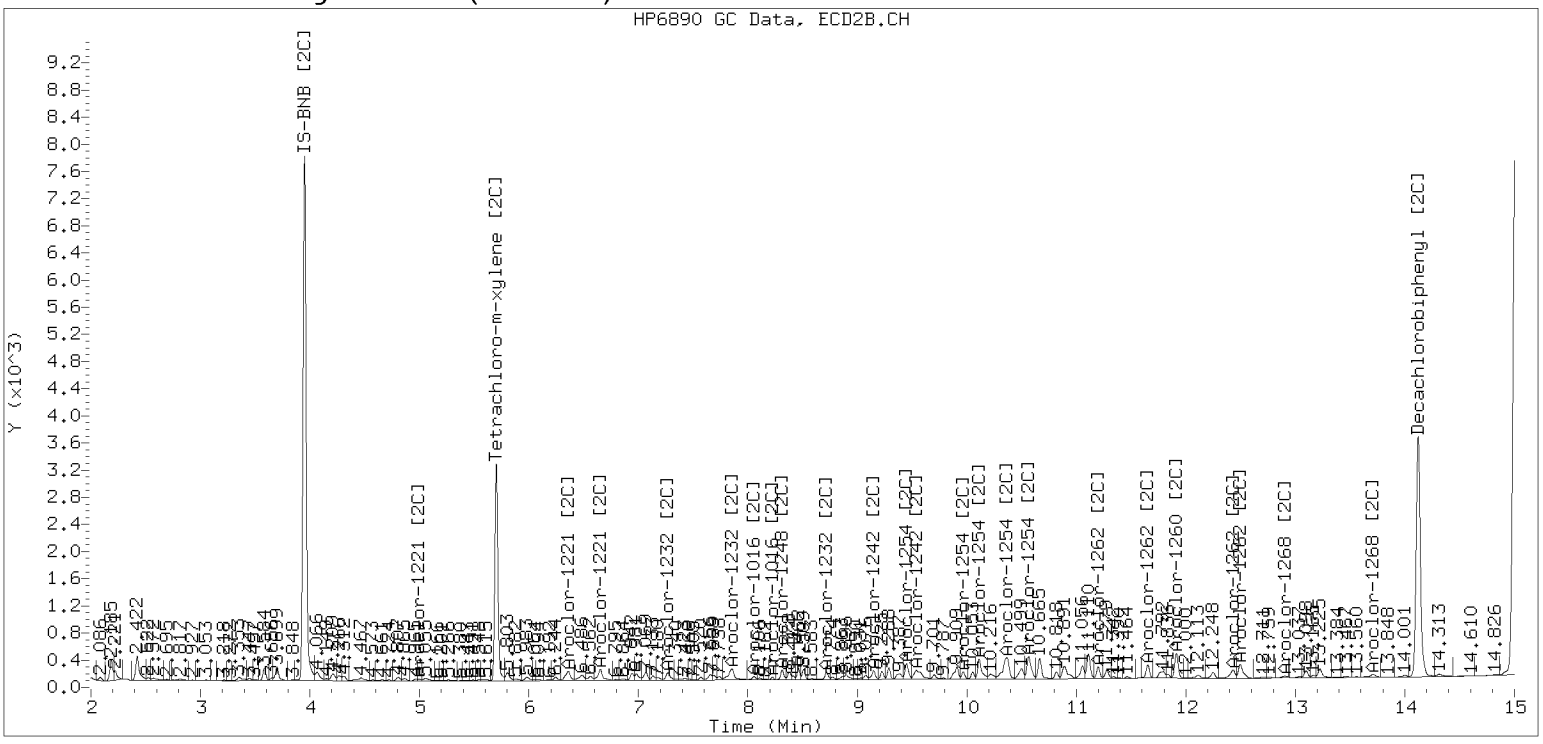
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042333ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-27 B	File ID:	01042334ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 20:59
% Solids:	61.61	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.29 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	82.6	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	91.6	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	64.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9996*	*7.33*	*91.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9996*	*4.90*	*61.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9996*	*6.86*	*85.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9996*	*5.74*	*71.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042334ECD7.D
Data file 2: /230104.b/230104.b/01042334ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-27
Client ID:
Injection Date: 04-JAN-2023 20:59
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	152904	5.699	-0.007	114123	24.5	28.7	15.9	Tetrachloro-m-xylene
13.896	-0.006	148466	14.123	-0.005	173615	36.6	34.3	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	440395	-1.6
Hexabromobiphenyl	798898	441951	-44.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	289859	16.4
Hexabromobiphenyl	362541	356307	-1.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.408	-0.019	55633	293.8	1	8.310	-0.010	62538	528.1
Aroclor-1248	2	8.574	-0.030	59739	247.1	2	8.716	-0.009	45387	364.4
Aroclor-1248	3	8.994	-0.029	126018	289.8	3	9.147	-0.024	52451	346.2
Aroclor-1248	4	9.297	-0.014	123343	578.9	4	9.542	-0.050	46333	2~~60~~.5
		Total Col1Ave (4 peaks):			352.4		Total Col2Ave (4 peaks):			374.8 RPD = 6
		Corrected Ave (3 peaks):			276.9		Corrected Ave (3 peaks):			323.7 RPD = 16
										412.9
Aroclor-1254	1	9.297	-0.024	123343	318.1	1	9.448	-0.012	79710	426.5
Aroclor-1254	2	9.372	-0.030	52694	349.4	2	9.966	-0.012	39450	262.6
Aroclor-1254	3	9.665	-0.030	72480	295.9	3	10.113	-0.016	134839	417.5
Aroclor-1254	4	9.796	-0.035	167865	351.6	4	10.360	-0.017	166139	496.7
Aroclor-1254	5	10.130	-0.059	193769	5~~92~~.1	5	10.563	-0.011	110739	686.5
		Total Col1Ave (5 peaks):			3~~81~~.4		Total Col2Ave (5 peaks):			458.0 RPD = 18
		Corrected Ave (4 peaks):			328.8		Corrected Ave (4 peaks):			400.8 RPD = 20
Aroclor-1260	1	11.043	-0.013	62082	385.9	1	11.652	-0.009	60207	320.1
Aroclor-1260	2	11.359	-0.013	55550	333.9	2	11.912	-0.011	118018	250.1
Aroclor-1260	3	11.728	-0.018	125436	286.9	3	12.433	-0.010	51430	409.2
Aroclor-1260	4	12.129	-0.021	64174	288.2	4	12.496	-0.010	94766	301.2
Aroclor-1260	5	12.246	-0.008	55598	610.0	NS	---			----
		Total Col1Ave (5 peaks):			381.0		Total Col2Ave (4 peaks):			320.2 RPD = 17
		Corrected Ave (4 peaks):			323.7		Corrected Ave (3 peaks):			290.5 RPD = 11
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 3330702 Col1 Total PCB = 0.8 ppm*

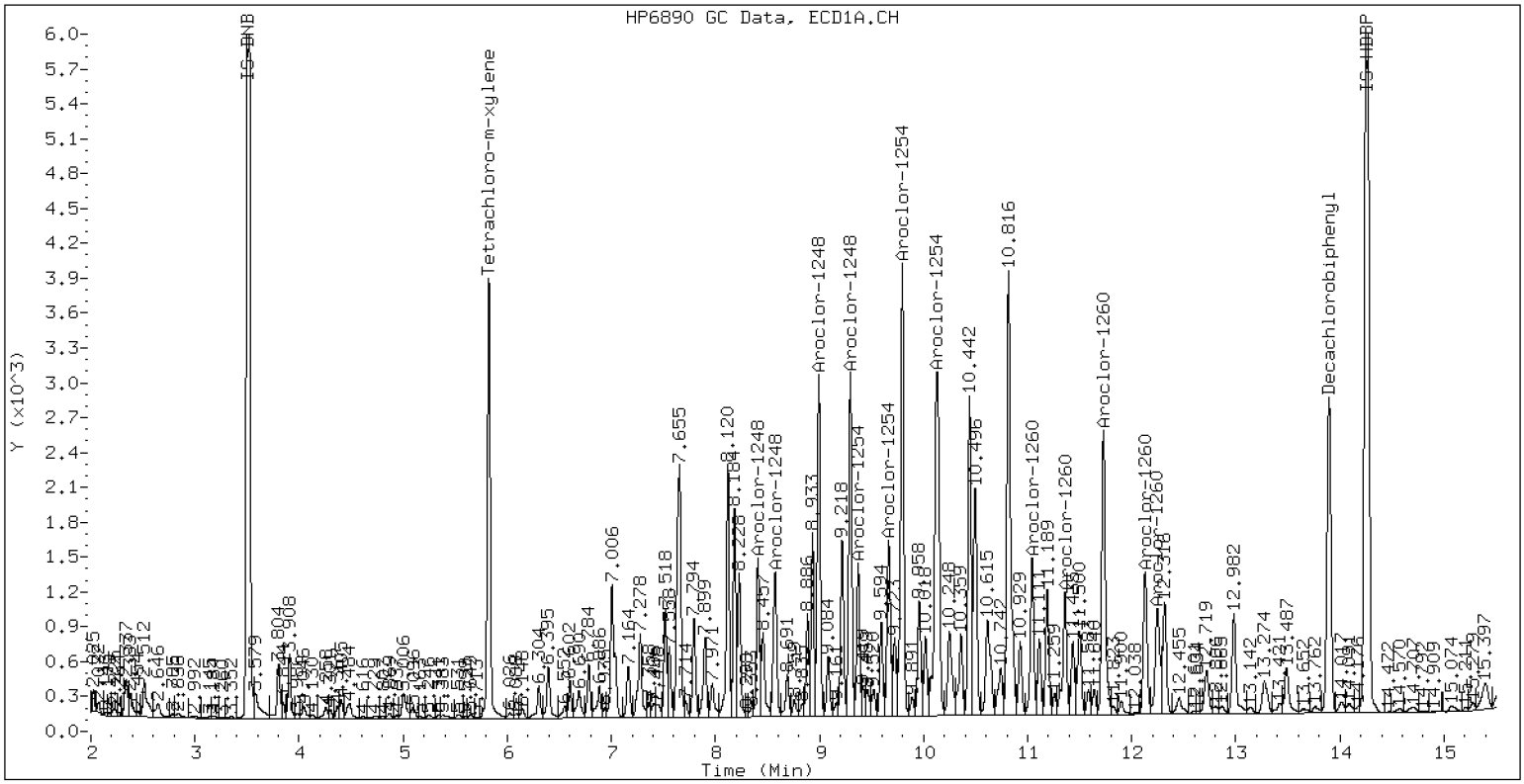
Total PCB Area Col2 (5.807 - 14.028) = 2648545 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

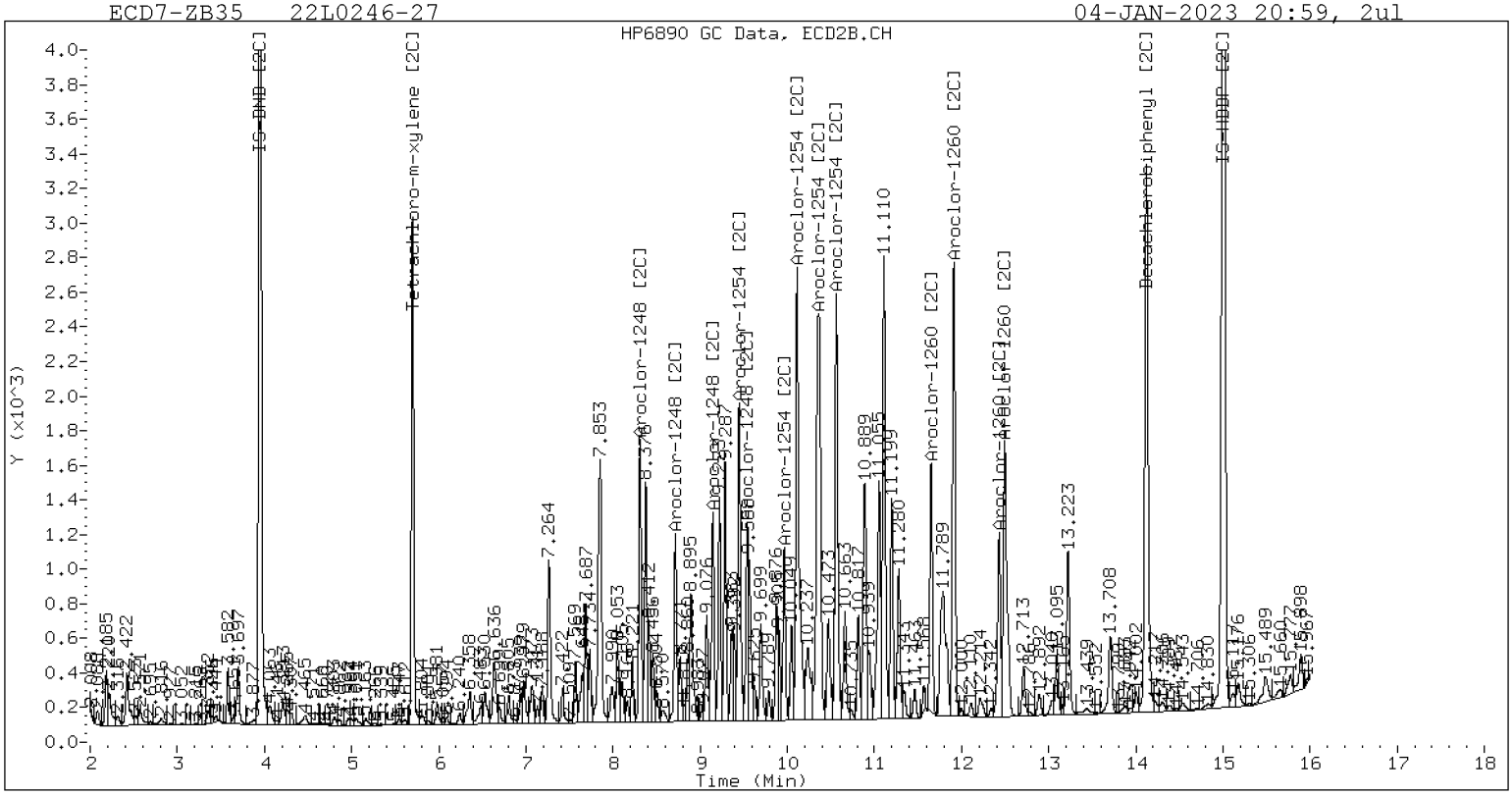
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-27 04-JAN-2023 20:59, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-27 04-JAN-2023 20:59, 2ul

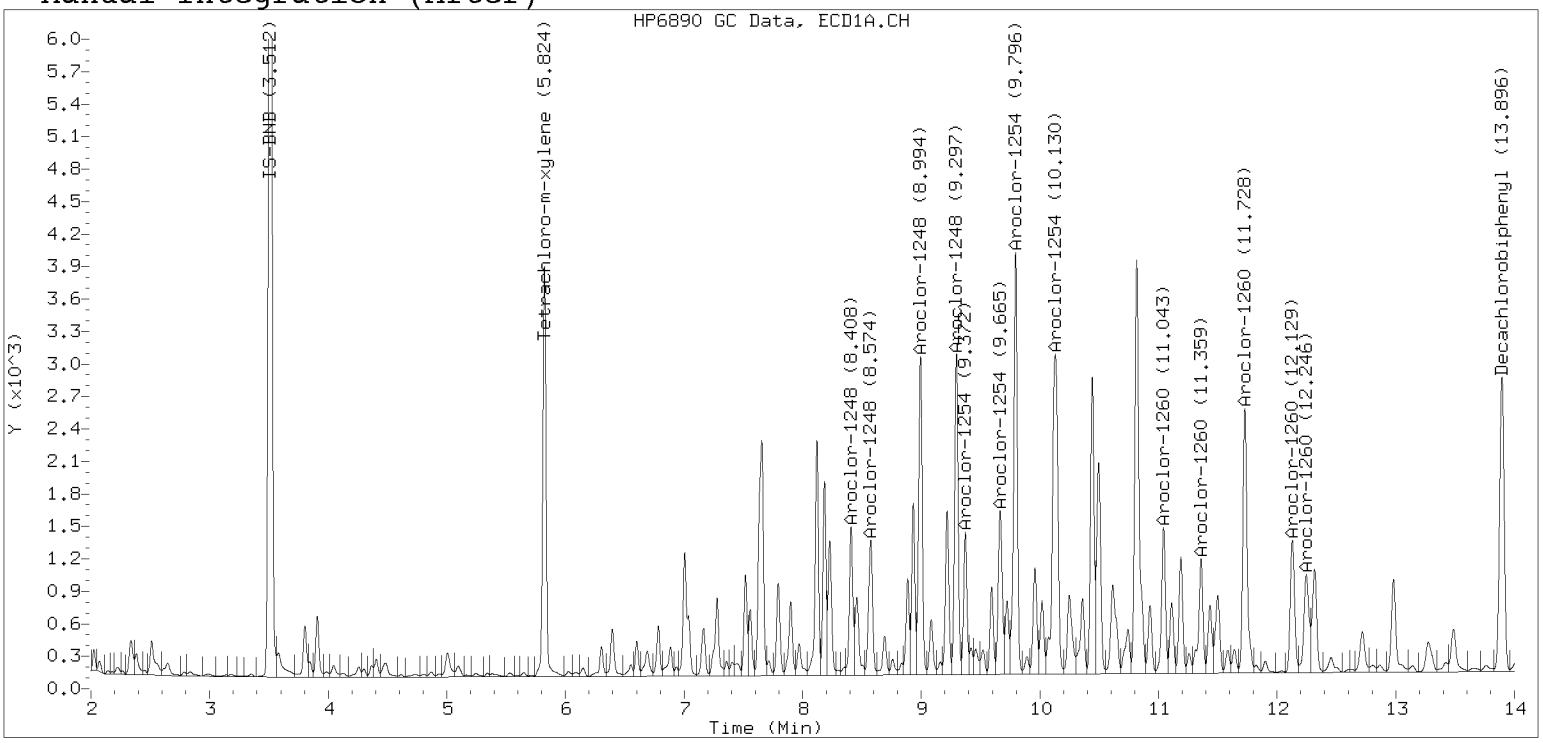


ZB-35 Manual Integration: YES

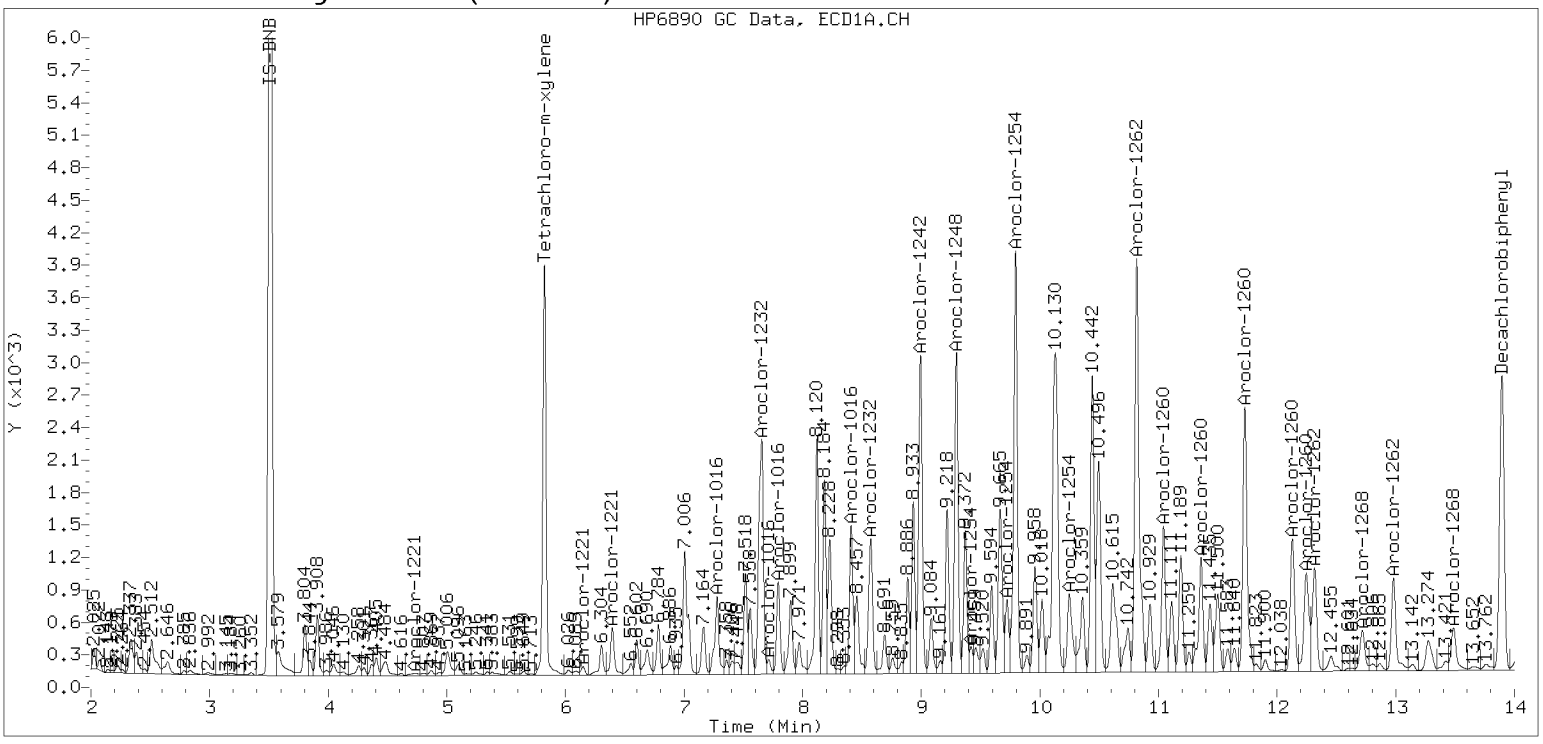
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042334ECD7.D Injection Date: 04-JAN-2023 20:59

Manual Integration (After)



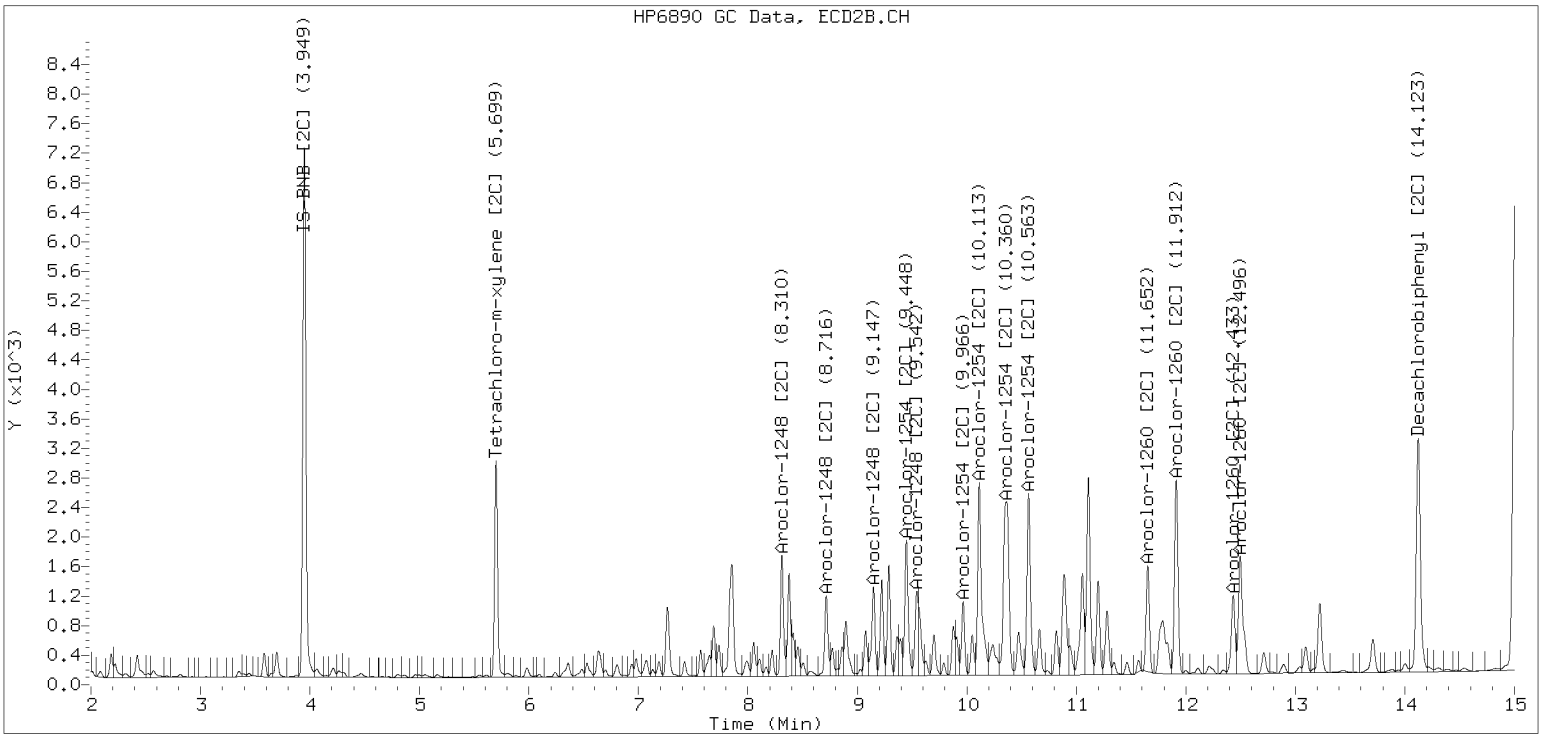
Processed Integration (Before)



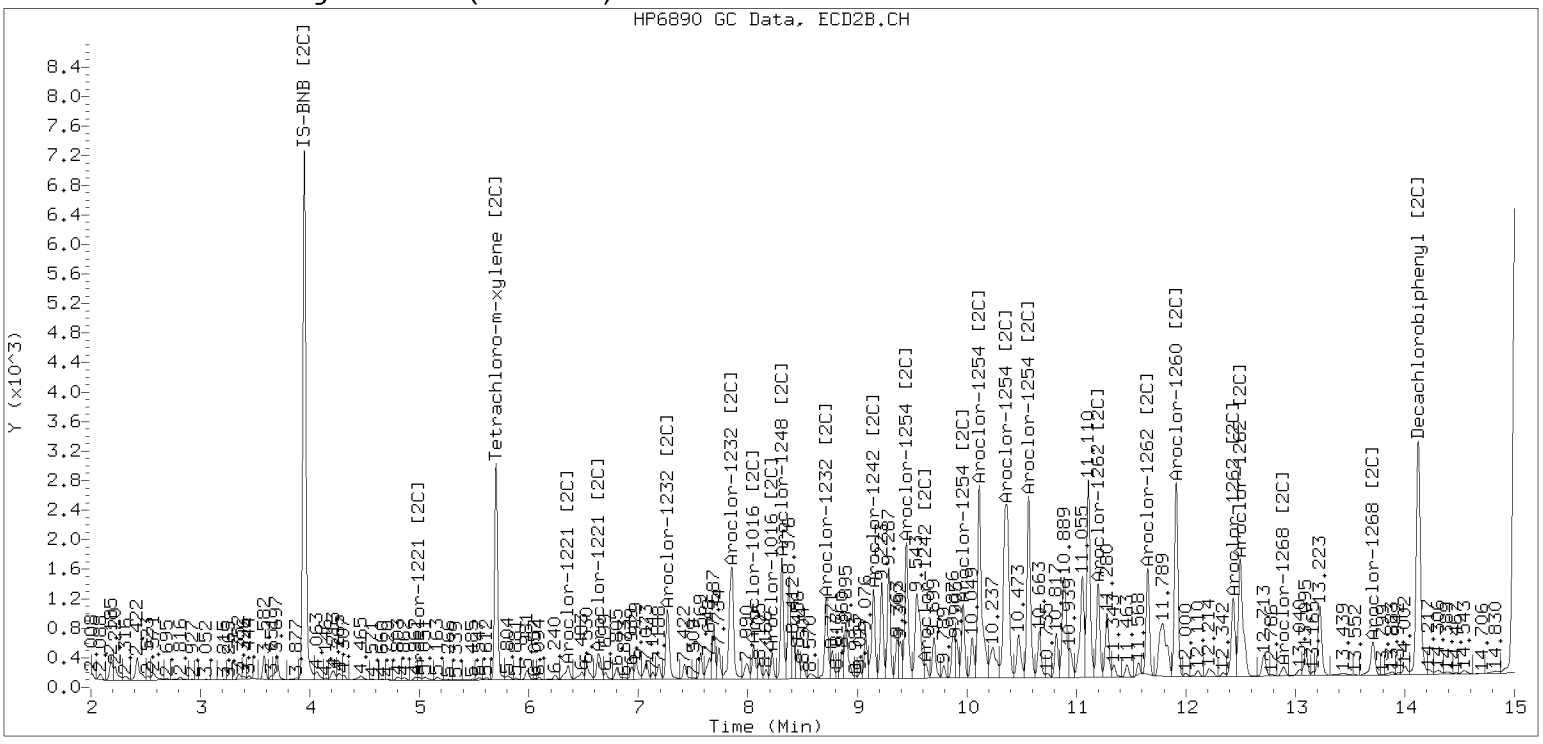
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042334ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-28 B	File ID:	01092342ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/09/23 23:28
% Solids:	73.07	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.16 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	19.9	7.8	19.9	U
11104-28-2	Aroclor 1221	1	5	19.9	7.8	19.9	U
11141-16-5	Aroclor 1232	1	5	19.9	7.8	19.9	U
53469-21-9	Aroclor 1242	1	5	19.9	7.8	19.9	U
12672-29-6	Aroclor 1248	2	5	446	7.8	19.9	D
11097-69-1	Aroclor 1254	1	5	359	7.8	19.9	D
11096-82-5	Aroclor 1260	1	5	134	2.9	19.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9752*	*8.94*	*112*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9752*	*6.73*	*84.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9752*	*9.87*	*124*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9752*	*7.03*	*88.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092342ECD7.D
Data file 2: /230109.b/230109.b/01092342ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-28
Client ID:
Injection Date: 09-JAN-2023 23:28
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	44392	5.706	-0.007	31204	6.7	7.1	4.4	Tetrachloro-m-xylene
13.897	-0.010	63364	14.121	-0.016	68312	9.0	9.9	9.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464121	3.7
Hexabromobiphenyl	798898	771033	-3.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	322806	29.6
Hexabromobiphenyl	362541	485858	34.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.415	-0.012	71732	359.5	1	8.315	-0.011	134618	1020.8
Aroclor-1248	2	8.583	-0.021	98398	386.2	2	8.720	-0.013	58059	418.6
Aroclor-1248	3	9.002	-0.020	180063	392.9	3	9.156	-0.022	50664	300.3
Aroclor-1248	4	9.303	-0.008	130063	579.2	4	9.632	0.029	10037	50.7
	Total Col1Ave (4 peaks):				429.4	Total Col2Ave (4 peaks):				447.6 RPD = 4
	Corrected Ave (3 peaks):				379.5	Corrected Ave (3 peaks):				256.5 RPD = 39
Aroclor-1254	1	9.303	-0.018	130063	318.3	1	9.452	-0.014	65012	312.4
Aroclor-1254	2	9.380	-0.022	59885	376.8	2	9.970	-0.016	31059	185.6
Aroclor-1254	3	9.670	-0.024	53613	207.7	3	10.119	-0.020	124490	346.1
Aroclor-1254	4	9.805	-0.026	178290	354.4	4	10.368	-0.021	134418	360.9
Aroclor-1254	5	10.129	-0.060	187816	544.6	5	10.567	-0.020	79429	442.1
	Total Col1Ave (5 peaks):				360.4	Total Col2Ave (5 peaks):				329.4 RPD = 9
	Corrected Ave (4 peaks):				314.3	Corrected Ave (4 peaks):				301.2 RPD = 4
Aroclor-1260	1	11.048	-0.014	38628	137.6	1	11.656	-0.013	36520	142.4
Aroclor-1260	2	11.364	-0.014	29373	101.2	2	11.916	-0.016	65826	102.3
Aroclor-1260	3	11.734	-0.018	80188	105.1	3	12.435	-0.016	18651	108.8
Aroclor-1260	4	12.134	-0.025	62681	161.4	4	12.499	-0.017	48825	113.8
Aroclor-1260	5	12.250	-0.011	26403	166.1	NS	---			----
	Total Col1Ave (5 peaks):				134.3	Total Col2Ave (4 peaks):				116.8 RPD = 14
	Corrected Ave (4 peaks):				126.3	Corrected Ave (3 peaks):				108.3 RPD = 15
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 3803054 Col1 Total PCB = 0.9 ppm*

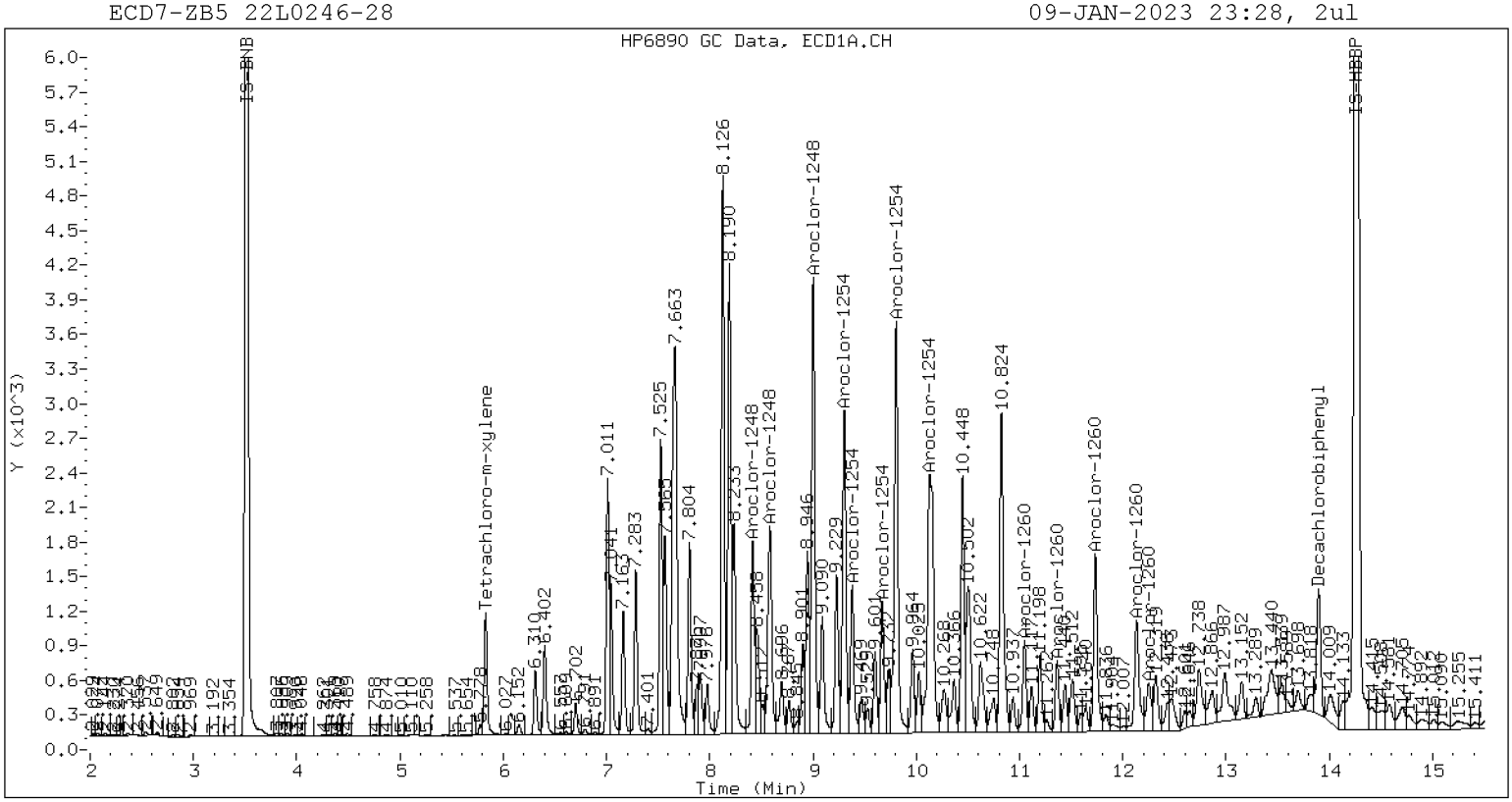
Total PCB Area Col2 (5.813 - 14.037) = 2574711 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

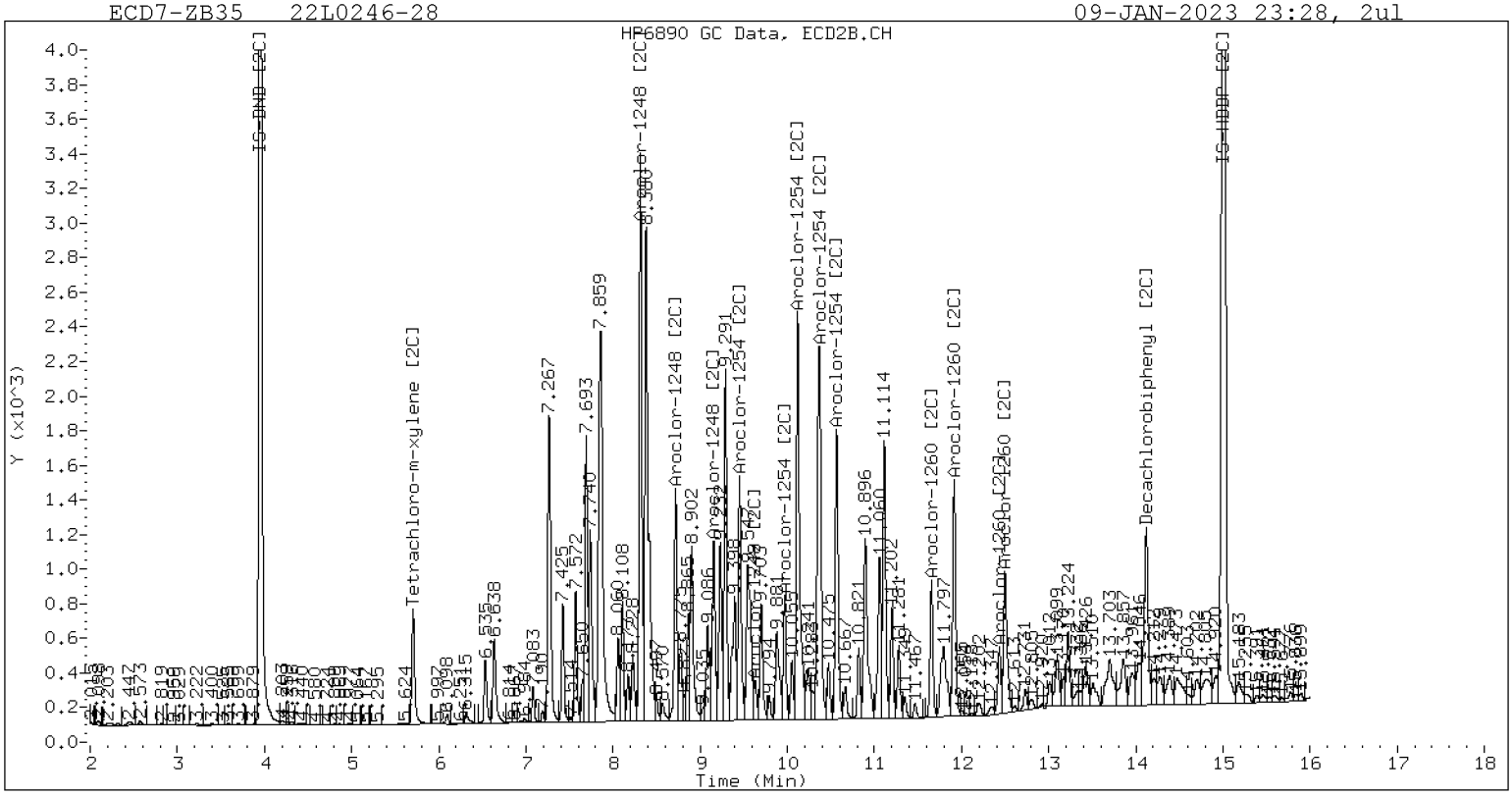
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-28 09-JAN-2023 23:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-28 09-JAN-2023 23:28, 2ul

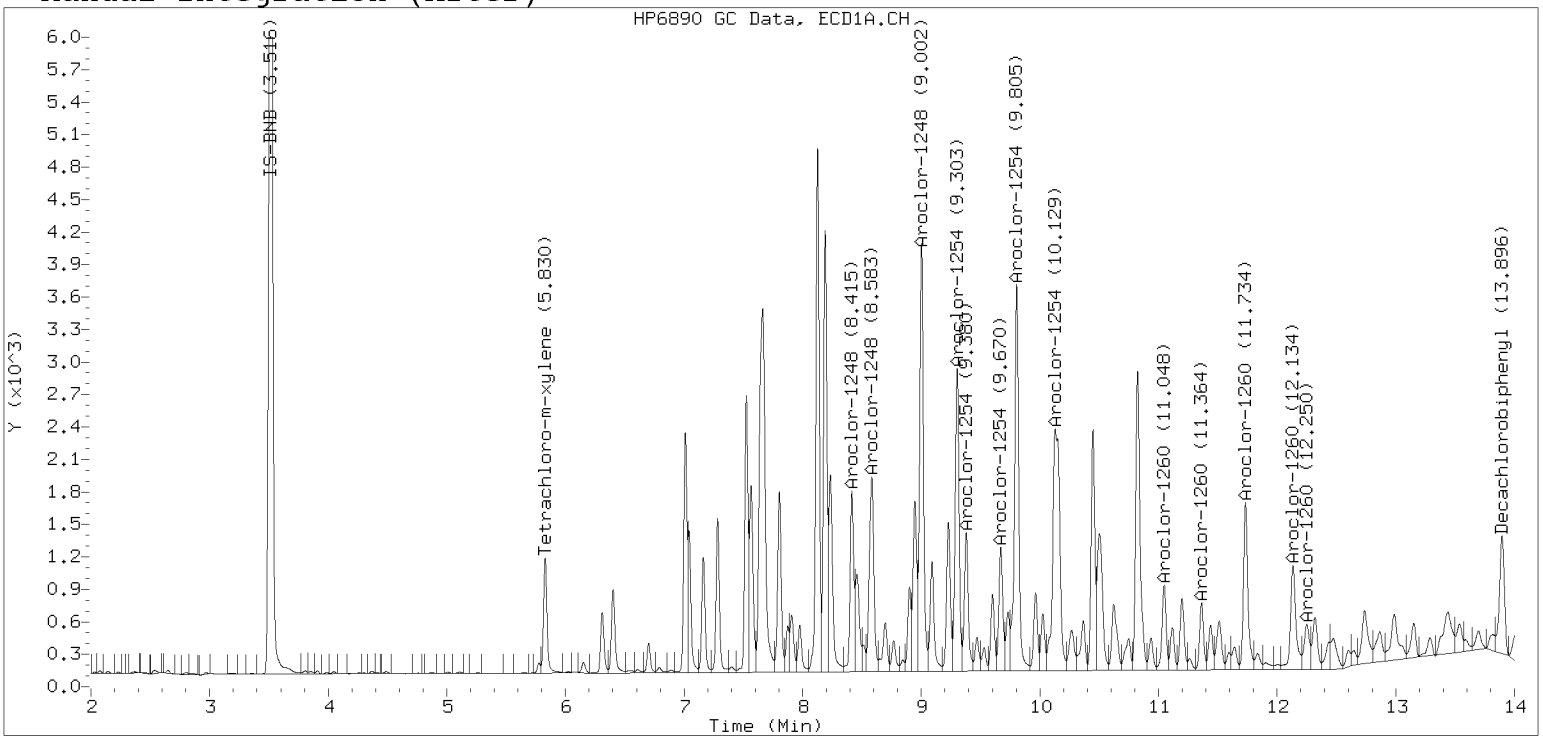


ZB-35 Manual Integration: NO

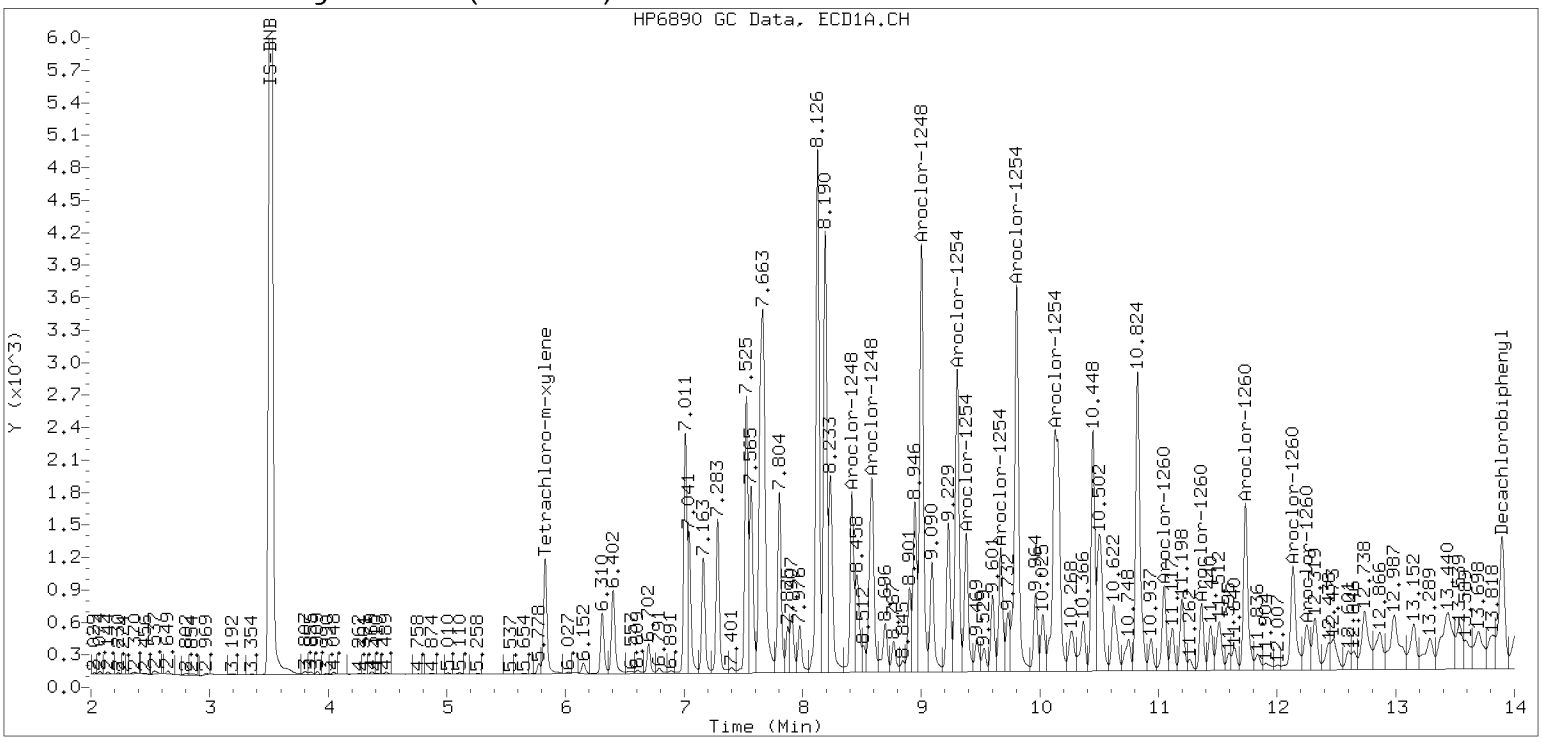
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230109.b/01092342ECD7.D Injection Date: 09-JAN-2023 23:28

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-29 B	File ID:	01092343ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/09/23 23:49
% Solids:	73.22	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.09 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	329	7.8	20.0	D
11097-69-1	Aroclor 1254	1	5	261	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	62.0	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9915*	*8.44*	*106*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9915*	*6.74*	*84.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9915*	*6.82*	*85.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9915*	*6.38*	*79.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092343ECD7.D
Data file 2: /230109.b/230109.b/01092343ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-29
Client ID:
Injection Date: 09-JAN-2023 23:49
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.009	44003	5.704	-0.010	27250	6.7	6.4	5.4	Tetrachloro-m-xylene
13.896	-0.012	56759	14.122	-0.015	45927	8.5	6.8	21.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460205	2.8
Hexabromobiphenyl	798898	732729	-8.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	311085	24.9
Hexabromobiphenyl	362541	473871	30.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.013	62759	317.2	1	8.315	-0.011	70699	556.3
Aroclor-1248	2	8.583	-0.021	75449	298.6	2	8.720	-0.012	46505	347.9
Aroclor-1248	3	9.001	-0.022	129237	284.4	3	9.155	-0.023	55352	340.4
Aroclor-1248	4	9.302	-0.009	92904	417.3	4	9.629	0.026	5394	28.3
	Total Col1Ave (4 peaks):				329.4	Total Col2Ave (4 peaks):				318.2 RPD = 3
	Corrected Ave (3 peaks):				300.1	Corrected Ave (3 peaks):				238.9 RPD = 23
Aroclor-1254	1	9.302	-0.019	92904	229.3	1	9.452	-0.015	48684	242.7
Aroclor-1254	2	9.378	-0.024	42222	267.9	2	9.969	-0.017	27143	168.3
Aroclor-1254	3	9.671	-0.023	51430	201.0	3	10.117	-0.022	82823	238.9
Aroclor-1254	4	9.804	-0.026	127402	255.4	4	10.361	-0.028	92710	258.3
Aroclor-1254	5	10.148	-0.041	121357	354.9	5	10.567	-0.019	42339	244.5
	Total Col1Ave (5 peaks):				261.7	Total Col2Ave (5 peaks):				230.6 RPD = 13
	Corrected Ave (4 peaks):				238.4	Corrected Ave (4 peaks):				223.6 RPD = 6
Aroclor-1260	1	11.047	-0.015	16649	62.4	1	11.655	-0.014	22101	88.4
Aroclor-1260	2	11.362	-0.016	14255	51.7	2	11.916	-0.017	29117	46.4
Aroclor-1260	3	11.733	-0.019	37340	51.5	3	12.434	-0.018	10672	63.8
Aroclor-1260	4	12.134	-0.024	20480	55.5	4	12.499	-0.018	20748	49.6
Aroclor-1260	5	12.247	-0.014	8001	53.0	NS	---			----
	Total Col1Ave (5 peaks):				54.8	Total Col2Ave (4 peaks):				62.0 RPD = 12
	Corrected Ave (4 peaks):				52.9	Corrected Ave (3 peaks):				53.3 RPD = 1
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 2306411 Col1 Total PCB = 0.5 ppm*

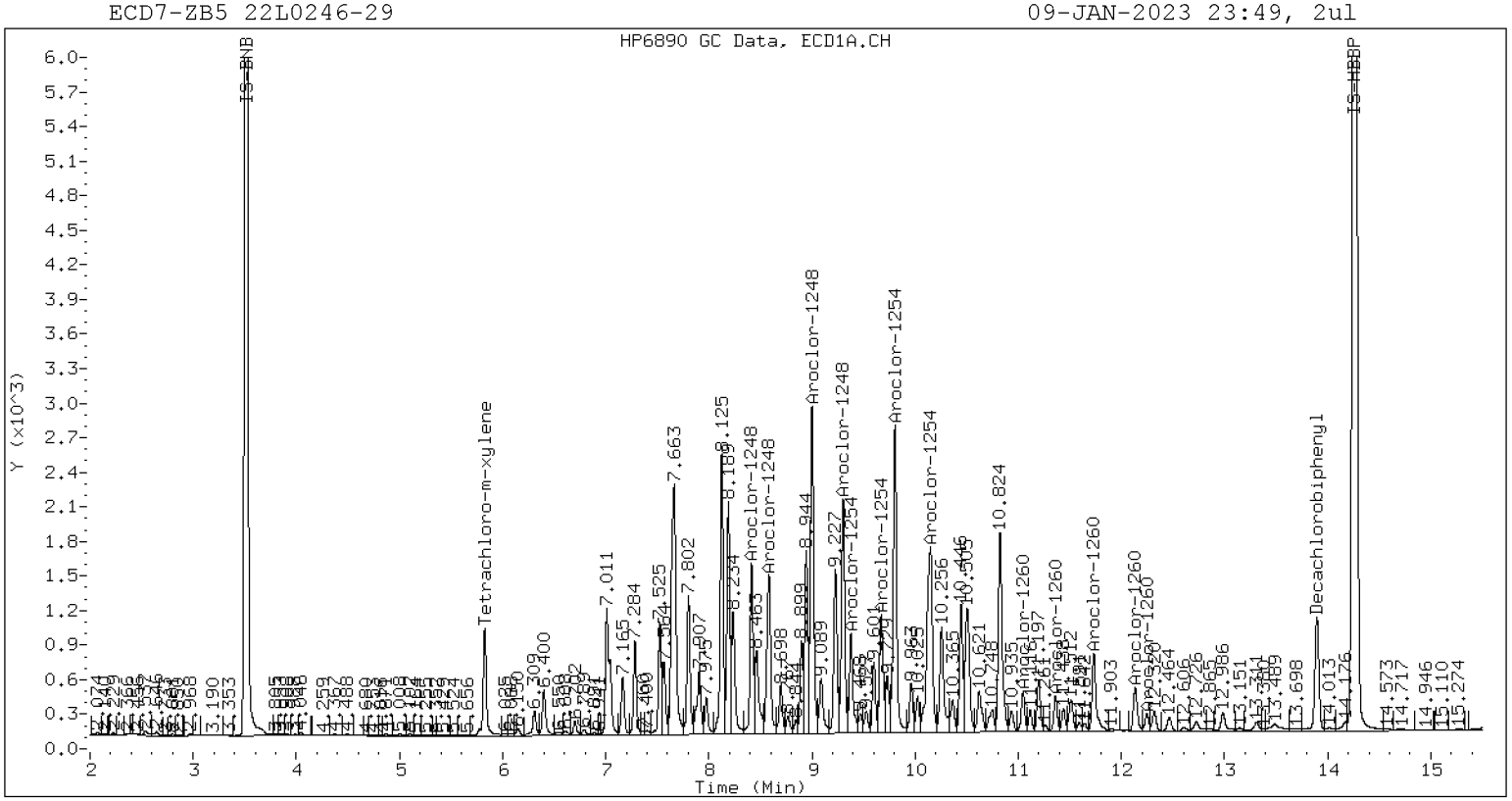
Total PCB Area Col2 (5.813 - 14.037) = 1610129 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

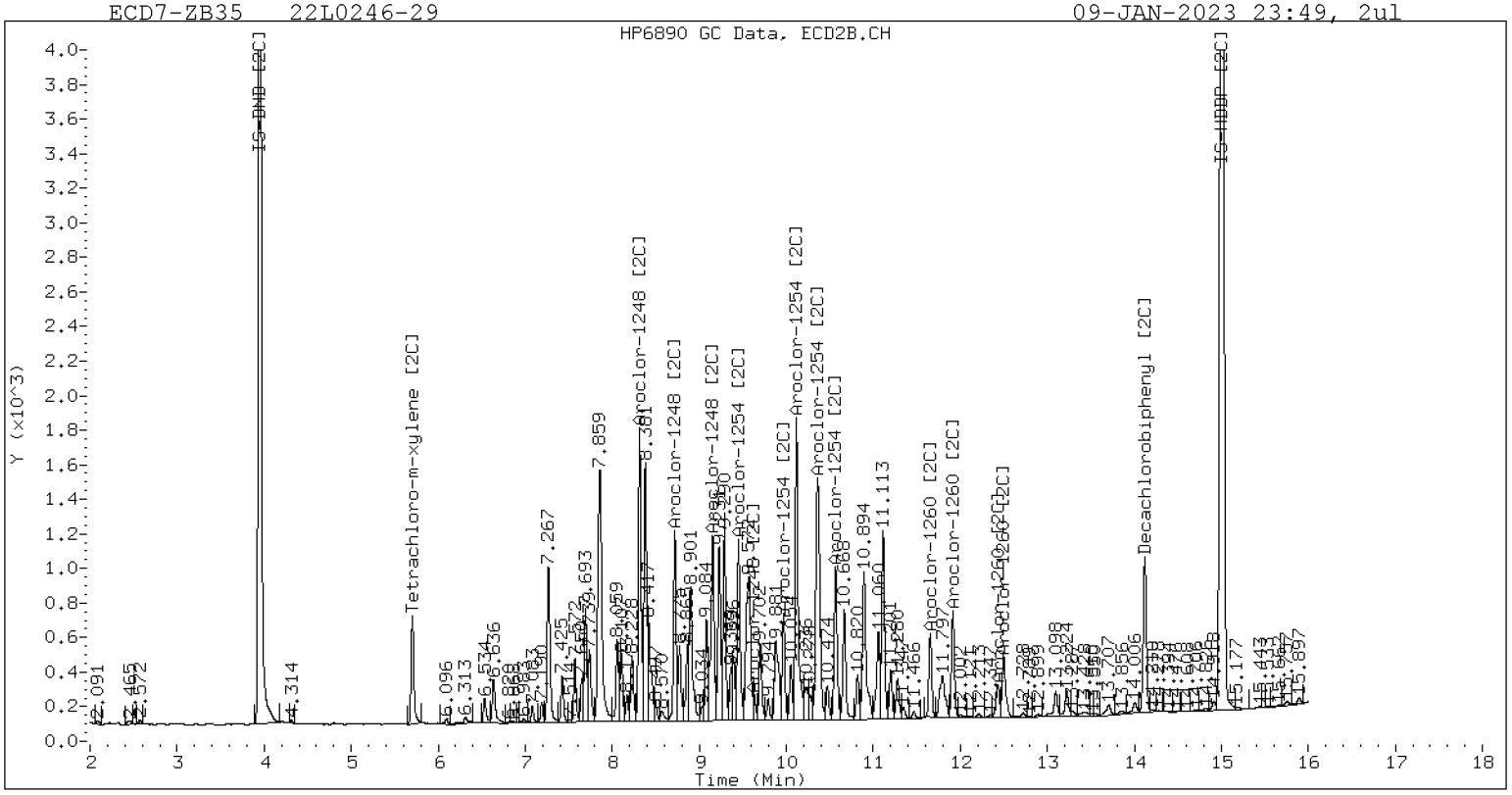
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-29 09-JAN-2023 23:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-29 09-JAN-2023 23:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-30 B	File ID:	01042337ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 22:02
% Solids:	68.00	Preparation:	EPA 3546 (Microwave)	Initial/Final:	18.41 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	44.4	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	58.3	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	19.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9880*	*7.15*	*89.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9880*	*4.58*	*57.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9880*	*6.54*	*81.8*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9880*	*5.47*	*68.5*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042337ECD7.D
Data file 2: /230104.b/230104.b/01042337ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-30
Client ID:
Injection Date: 04-JAN-2023 22:02
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.007	146323	5.700	-0.007	111648	22.9	27.4	17.7	Tetrachloro-m-xylene
13.894	-0.007	169720	14.122	-0.006	179857	35.8	32.7	8.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	450298	0.6
Hexabromobiphenyl	798898	517259	-35.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	297355	19.4
Hexabromobiphenyl	362541	386982	6.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.409	-0.018	33719	174.2	1	8.311	-0.009	32752	269.6
Aroclor-1248	2	8.577	-0.027	22310	90.3	2	8.716	-0.009	23240	181.9
Aroclor-1248	3	8.996	-0.026	82496	185.5	3	9.149	-0.022	29254	188.2
Aroclor-1248	4	9.297	-0.014	95734	439.4	4	9.541	-0.052	35675	195.5
		Total Col1Ave (4 peaks):			222.3		Total Col2Ave (4 peaks):			208.8 RPD = 6
		Corrected Ave (3 peaks):			150.0		Corrected Ave (3 peaks):			188.6 RPD = 23
										213.23
Aroclor-1254	1	9.297	-0.024	95734	241.5	1	9.448	-0.012	59635	311.1
Aroclor-1254	2	9.372	-0.030	39604	256.9	2	9.966	-0.012	27566	178.8
Aroclor-1254	3	9.670	-0.024	67878	271.1	3	10.112	-0.017	94416	285.0
Aroclor-1254	4	9.797	-0.033	144194	295.4	4	10.353	-0.024	113674	331.3
Aroclor-1254	5	10.137	-0.052	129854	388.1	5	10.563	-0.012	58622	354.2
		Total Col1Ave (5 peaks):			290.6		Total Col2Ave (5 peaks):			292.1 RPD = 1
		Corrected Ave (4 peaks):			266.2		Corrected Ave (4 peaks):			276.5 RPD = 4
Aroclor-1260	1	11.043	-0.013	24576	130.5	1	11.653	-0.008	27996	137.1
Aroclor-1260	2	11.359	-0.013	19121	98.2	2	11.913	-0.010	38367	74.9
Aroclor-1260	3	11.729	-0.017	43472	85.0	3	12.432	-0.010	12445	91.2
Aroclor-1260	4	12.130	-0.020	24404	93.7	4	12.496	-0.010	26286	76.9
Aroclor-1260	5	12.244	-0.011	11761	110.3	NS	---			----
		Total Col1Ave (5 peaks):			103.5		Total Col2Ave (4 peaks):			95.0 RPD = 9
		Corrected Ave (4 peaks):			96.8		Corrected Ave (3 peaks):			81.0 RPD = 18
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 1848418 Col1 Total PCB = 0.4 ppm*

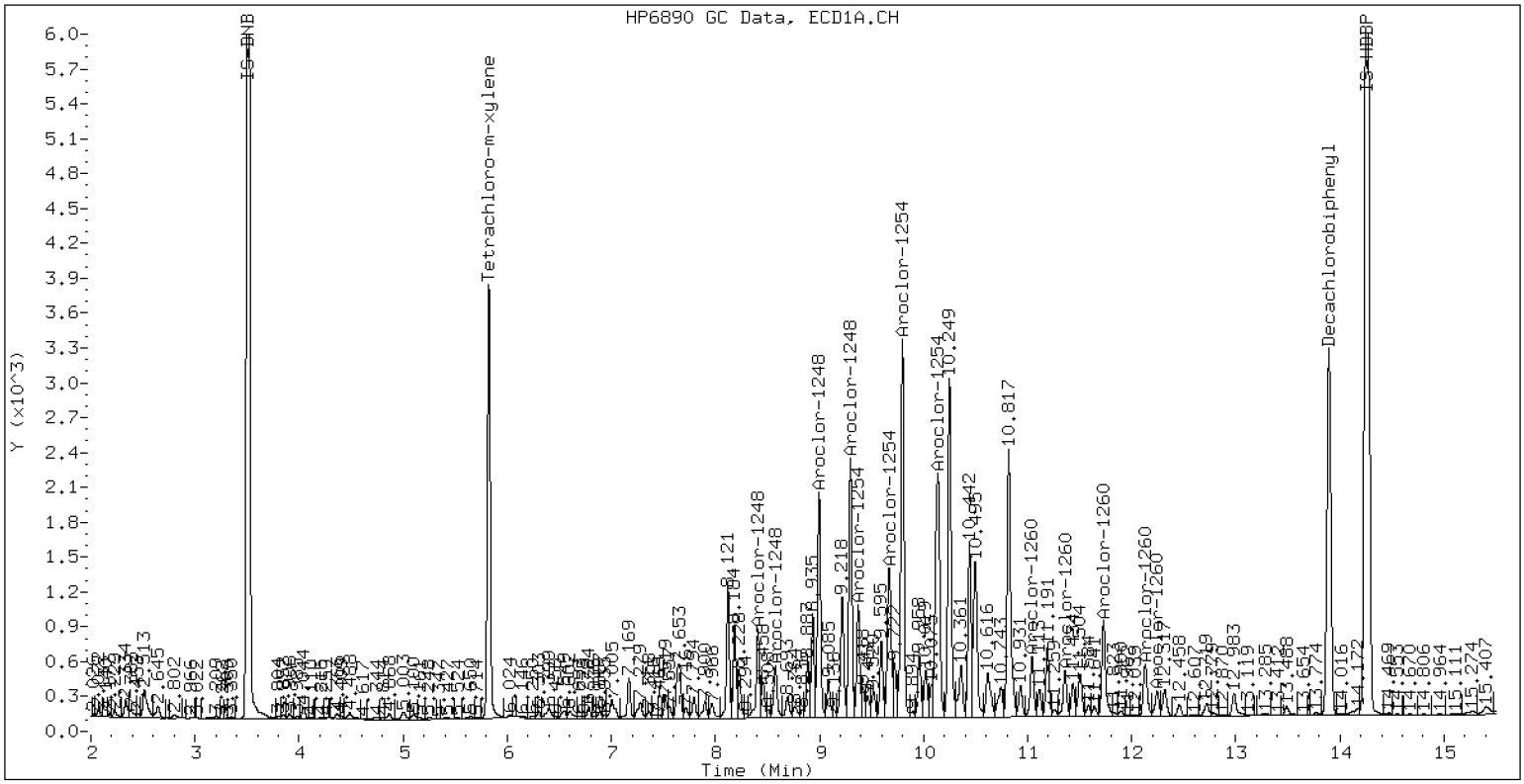
Total PCB Area Col2 (5.807 - 14.028) = 1393003 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

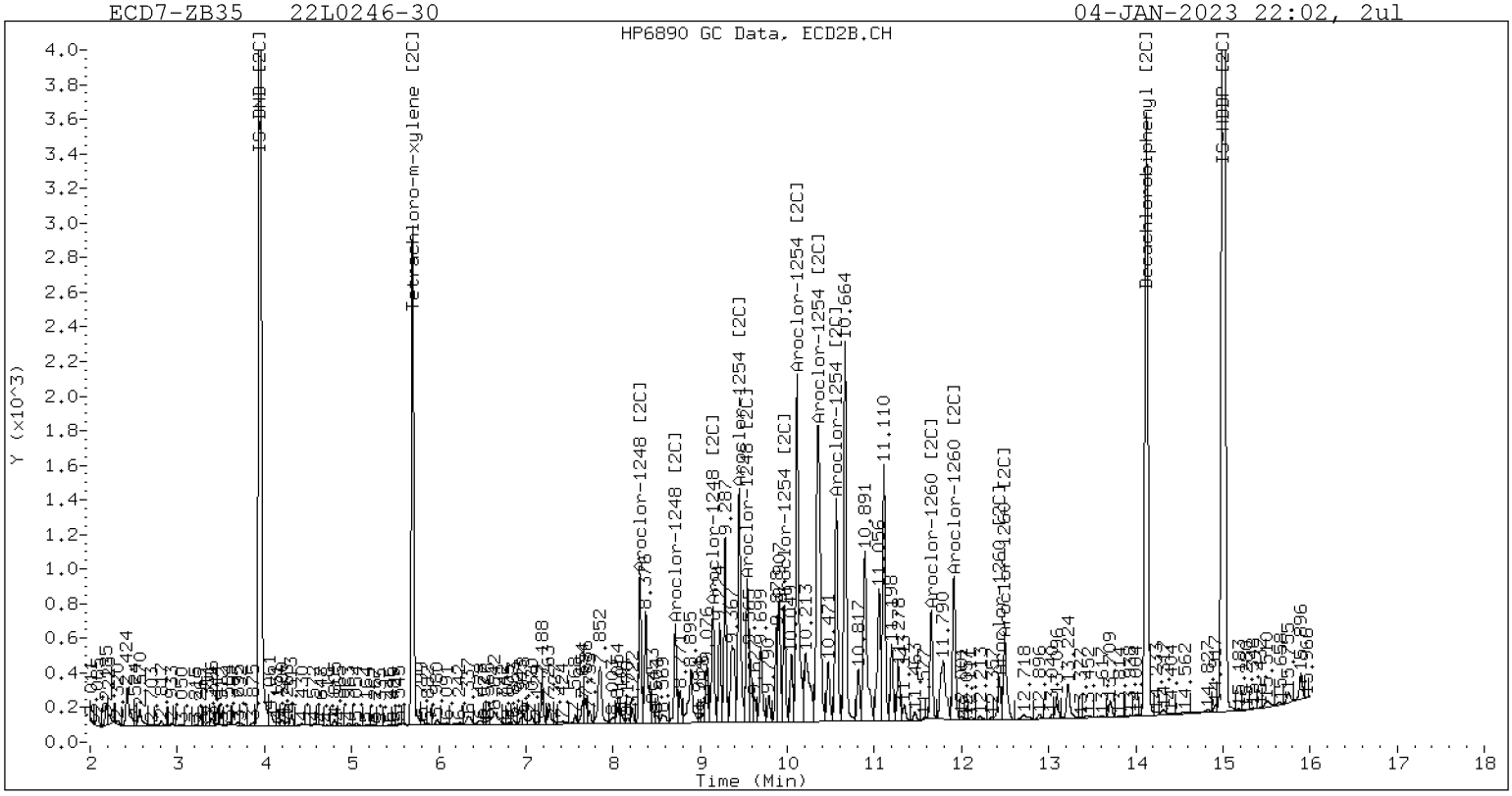
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-30 04-JAN-2023 22:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-30 04-JAN-2023 22:02, 2ul

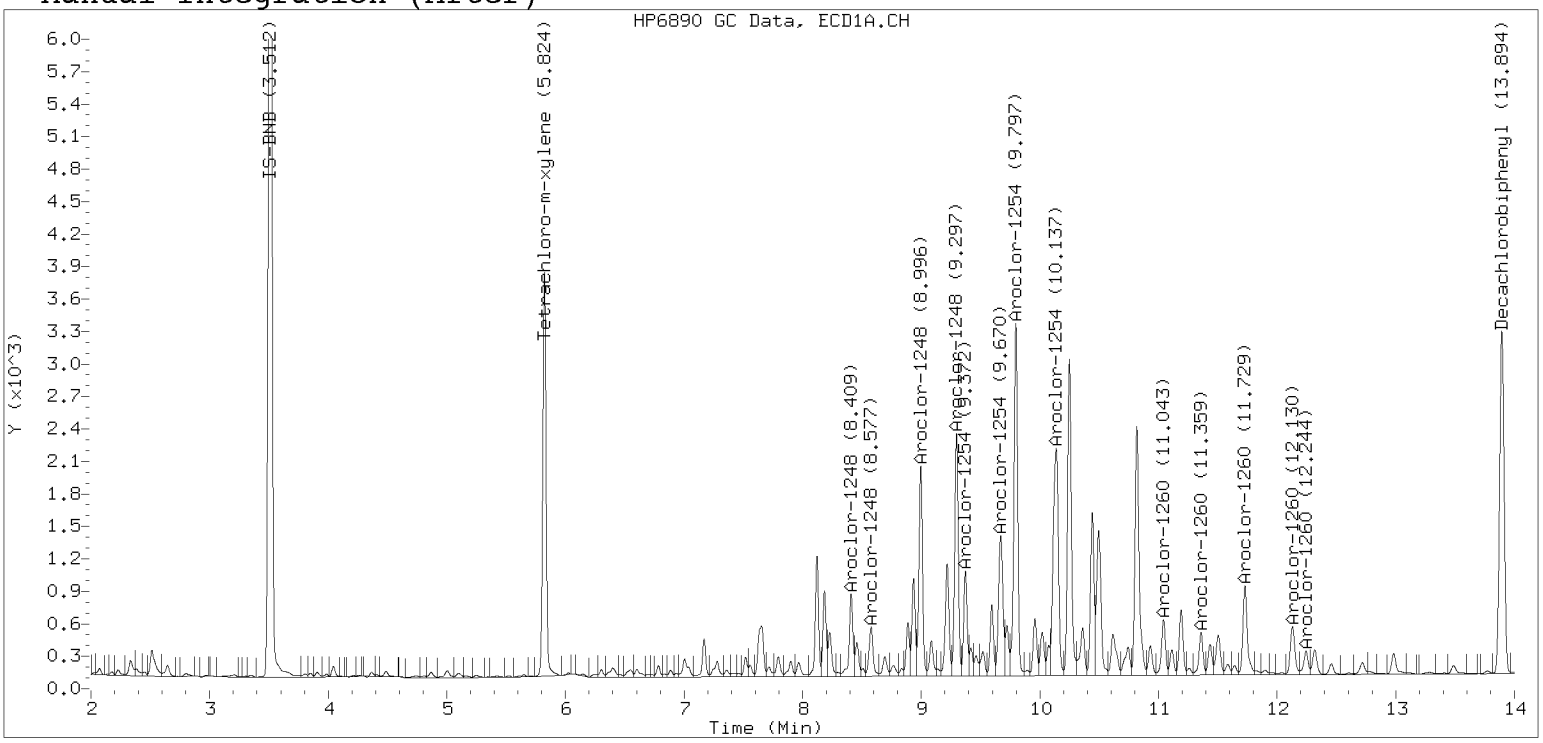


ZB-35 Manual Integration: YES

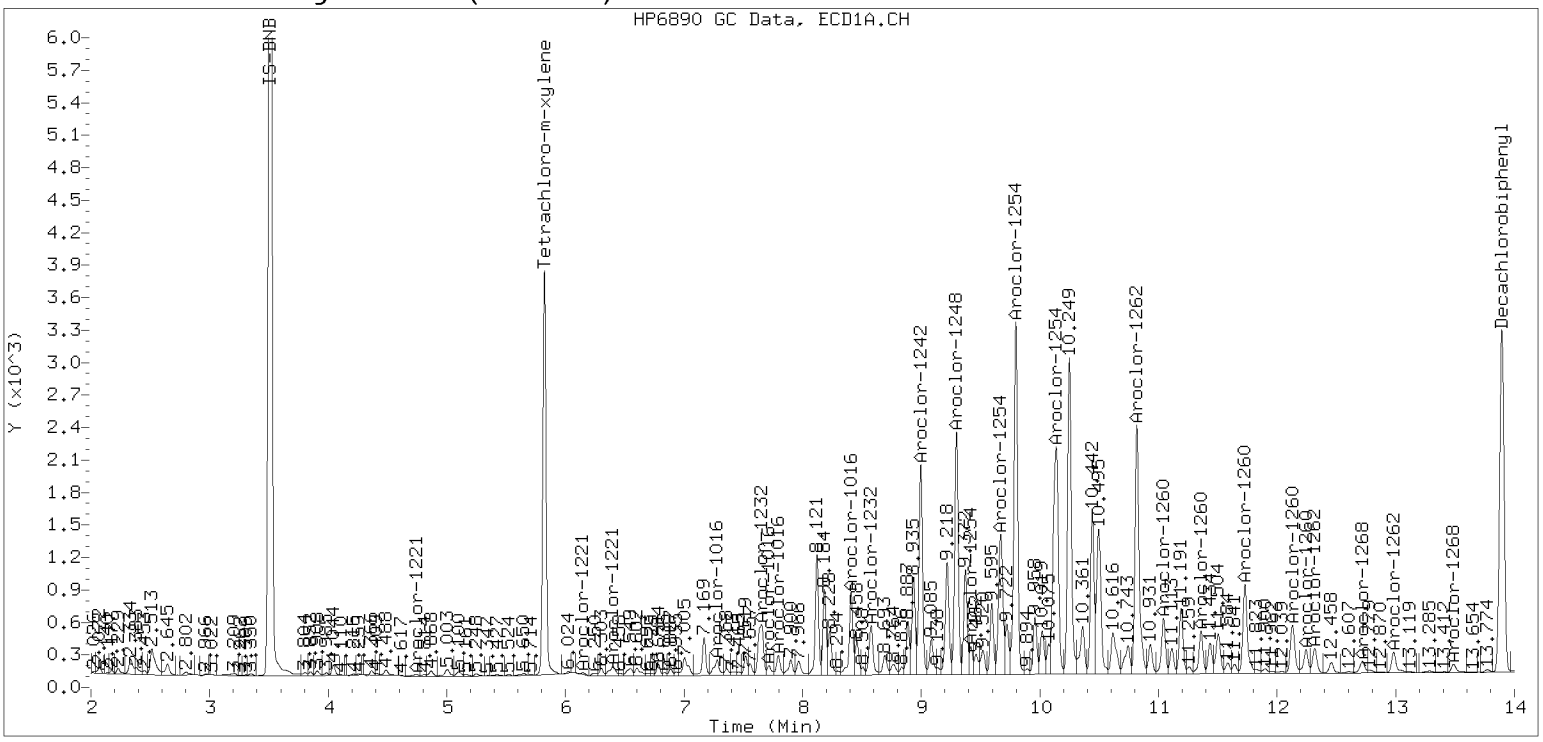
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042337ECD7.D Injection Date: 04-JAN-2023 22:02

Manual Integration (After)



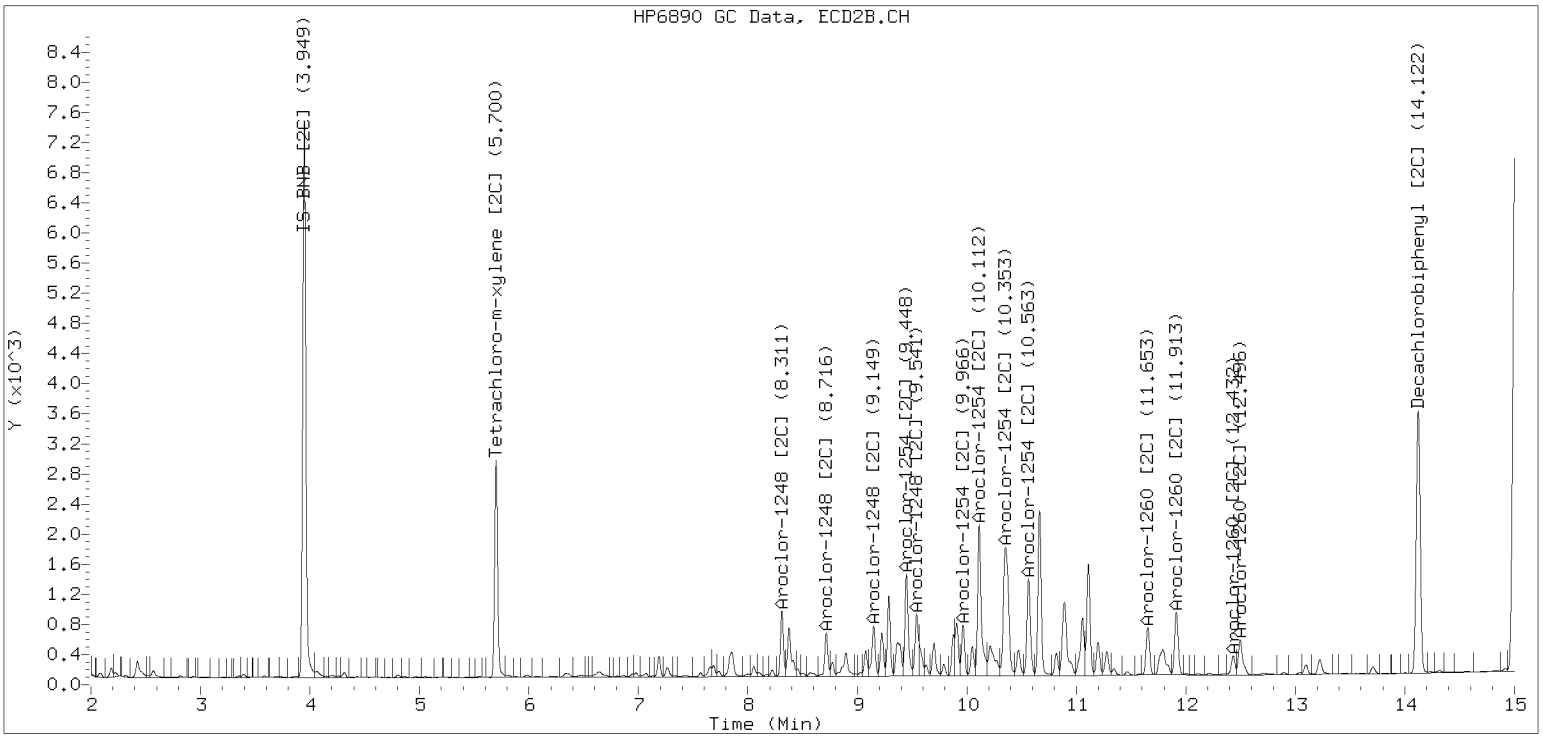
Processed Integration (Before)



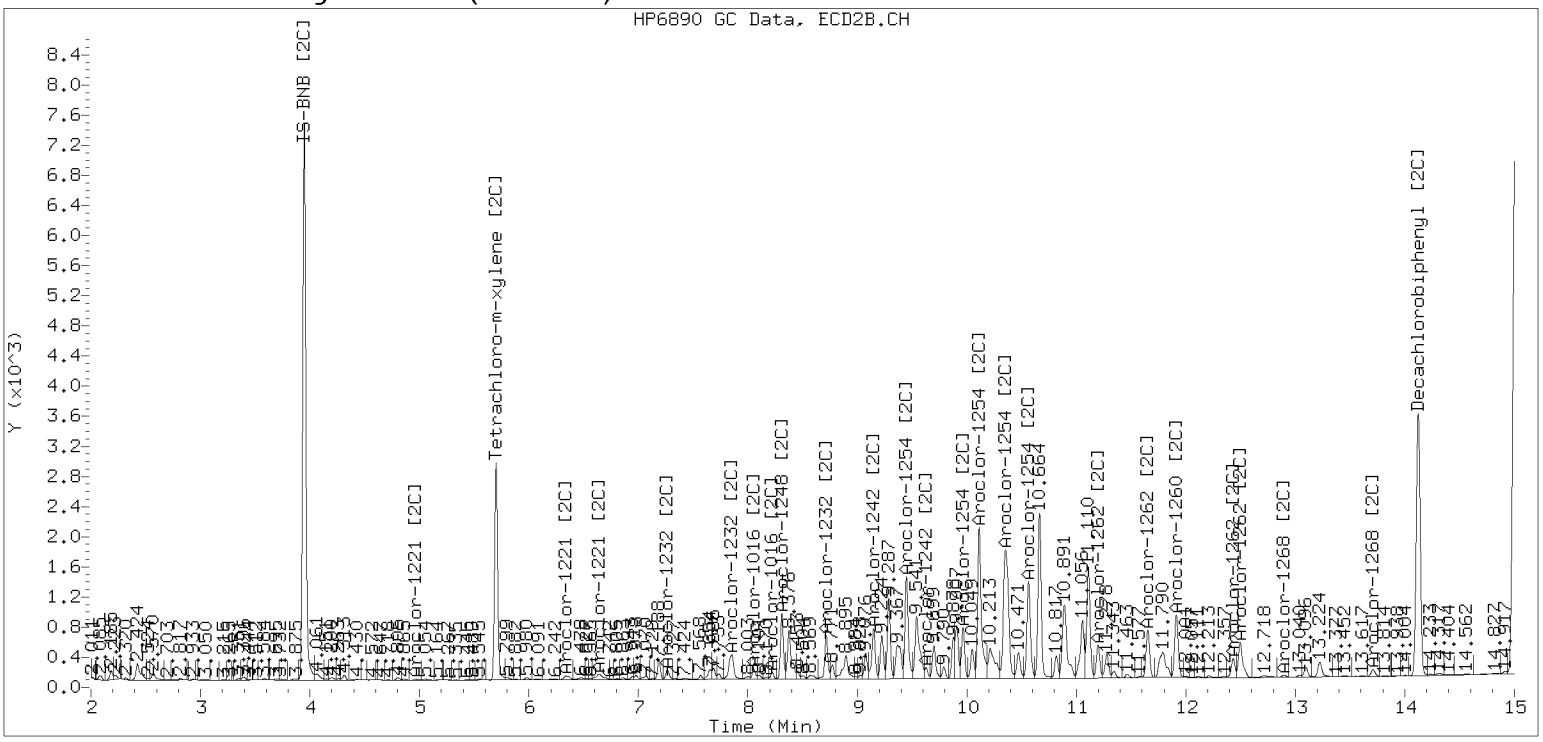
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042337ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-31 B	File ID:	01042340ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:06
% Solids:	70.85	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.67 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	41.2	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	61.1	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	19.7	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9877*	*7.35*	*92.0*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9877*	*5.00*	*62.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9877*	*6.53*	*81.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9877*	*5.78*	*72.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042340ECD7.D
Data file 2: /230104.b/230104.b/01042340ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-31
Client ID:
Injection Date: 04-JAN-2023 23:06
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	168104	5.701	-0.006	122721	25.0	28.9	14.5	Tetrachloro-m-xylene
13.896	-0.005	195375	14.123	-0.005	197421	36.8	32.7	11.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	473789	5.8
Hexabromobiphenyl	798898	578869	-27.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	309311	24.2
Hexabromobiphenyl	362541	425404	17.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.410	-0.018	24447	120.0	1	8.311	-0.009	28499	225.5
Aroclor-1248	2	8.578	-0.026	15569	59.9	2	8.717	-0.008	18396	138.4
Aroclor-1248	3	8.996	-0.026	85356	182.4	3	9.150	-0.021	25480	157.6
Aroclor-1248	4	9.298	-0.013	106189	463.2	4	9.542	-0.051	49971	263
		Total Col1Ave (4 peaks):			206.4		Total Col2Ave (4 peaks):			196.2 RPD = 5
		Corrected Ave (3 peaks):			120.8		Corrected Ave (3 peaks):			173.9 RPD = 36
Aroclor-1254	1	9.298	-0.023	106189	254.6	1	9.449	-0.011	63633	319.1
Aroclor-1254	2	9.373	-0.029	48283	297.6	2	9.967	-0.011	25873	161.4
Aroclor-1254	3	9.669	-0.026	62837	238.5	3	10.113	-0.016	102578	297.6
Aroclor-1254	4	9.798	-0.033	156859	305.4	4	10.356	-0.021	127733	357.9
Aroclor-1254	5	10.139	-0.050	152997	434	5	10.565	-0.010	67818	394.0
		Total Col1Ave (5 peaks):			306.1		Total Col2Ave (5 peaks):			306.0 RPD = 0
		Corrected Ave (4 peaks):			274.0		Corrected Ave (4 peaks):			284.0 RPD = 4
Aroclor-1260	1	11.044	-0.011	26980	128.0	1	11.654	-0.007	31986	142.4
Aroclor-1260	2	11.359	-0.013	19333	88.7	2	11.915	-0.009	42519	75.5
Aroclor-1260	3	11.729	-0.017	50261	87.8	3	12.433	-0.009	14703	98.0
Aroclor-1260	4	12.130	-0.021	27870	95.6	4	12.497	-0.009	29852	79.5
Aroclor-1260	5	12.243	-0.011	13208	110.6	NS	---			----
		Total Col1Ave (5 peaks):			102.1		Total Col2Ave (4 peaks):			98.8 RPD = 3
		Corrected Ave (4 peaks):			95.7		Corrected Ave (3 peaks):			84.3 RPD = 13
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 1974064 Col1 Total PCB = 0.4 ppm*

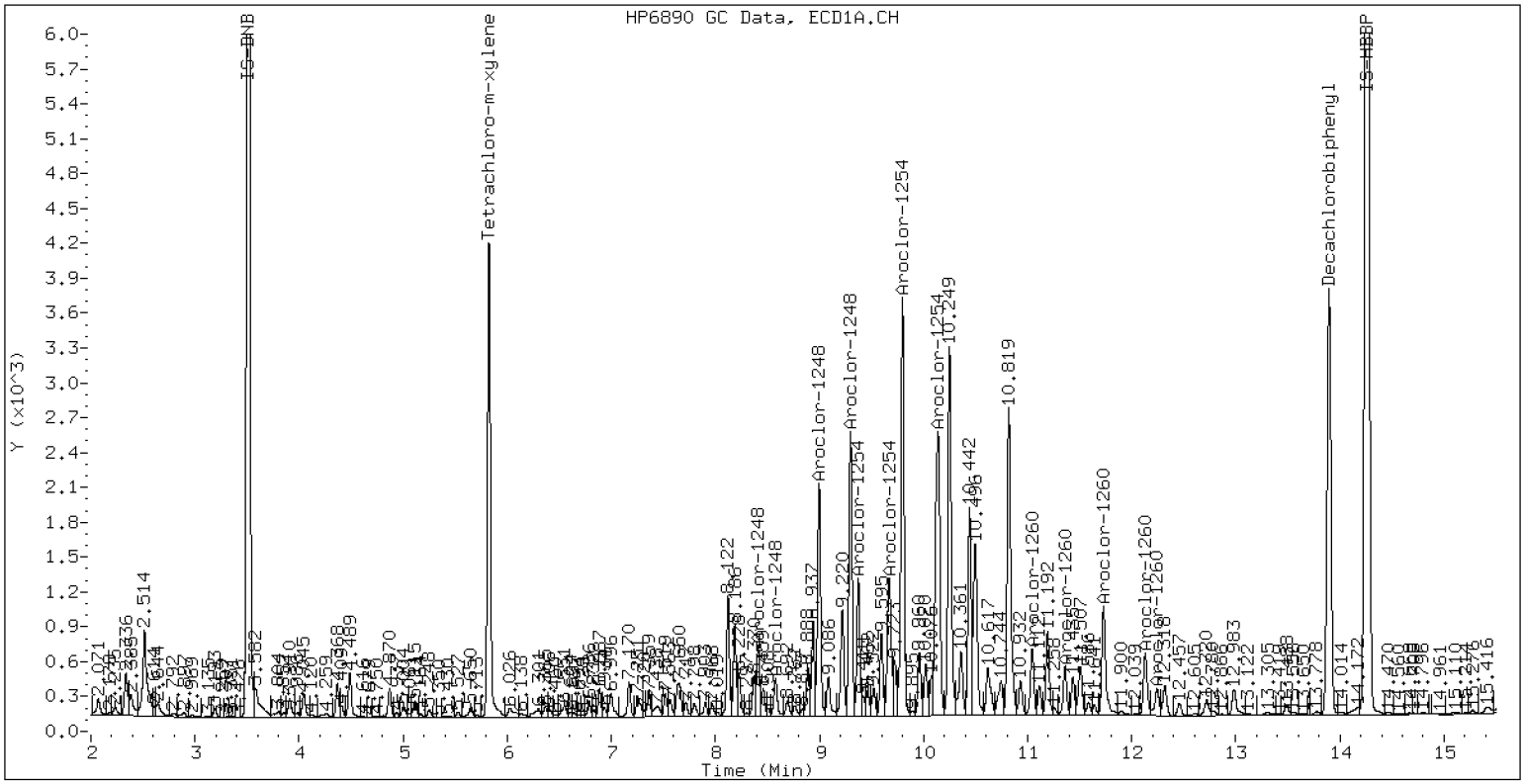
Total PCB Area Col2 (5.807 - 14.028) = 1480165 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

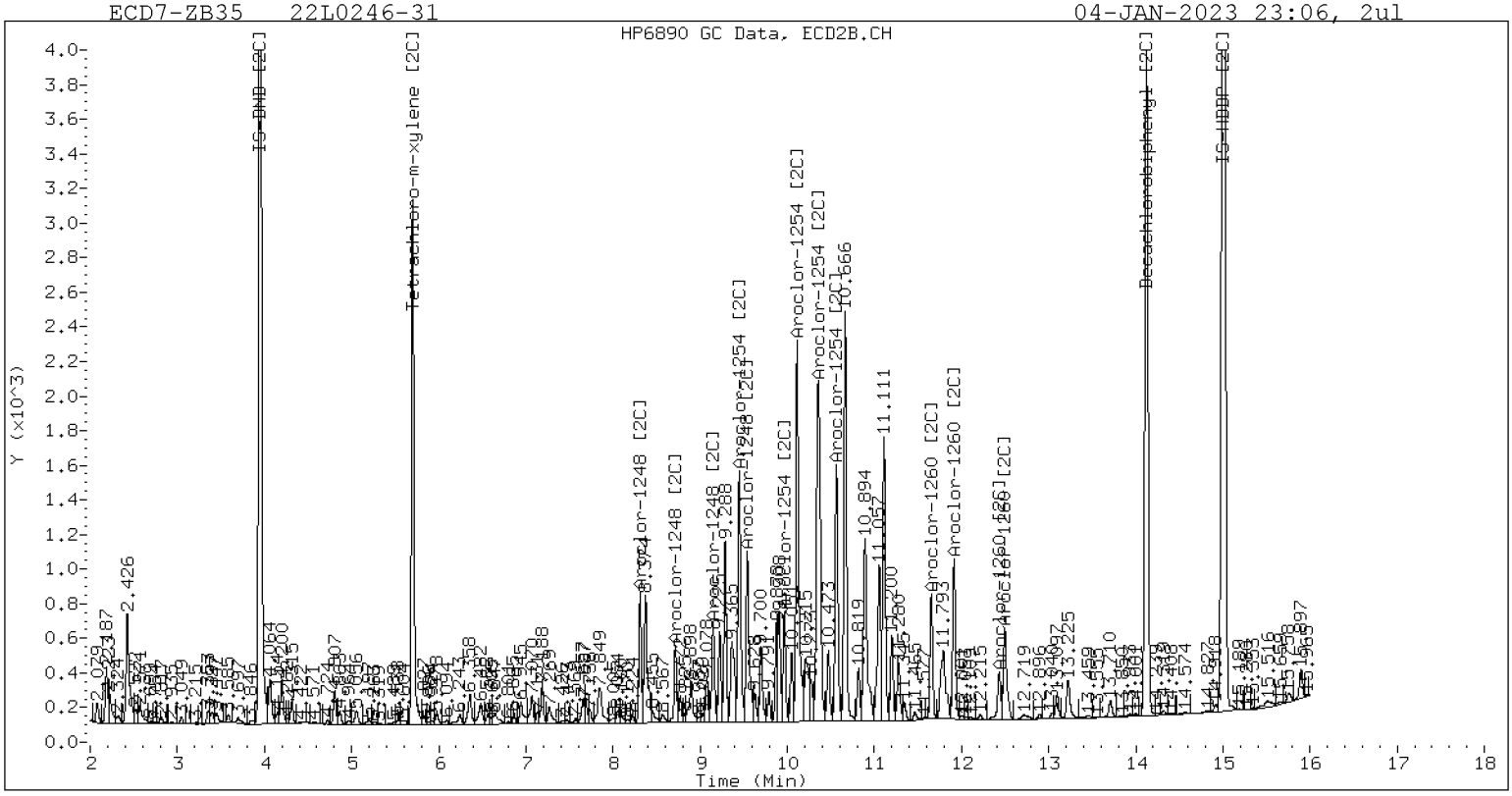
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-31 04-JAN-2023 23:06, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-31 04-JAN-2023 23:06, 2ul

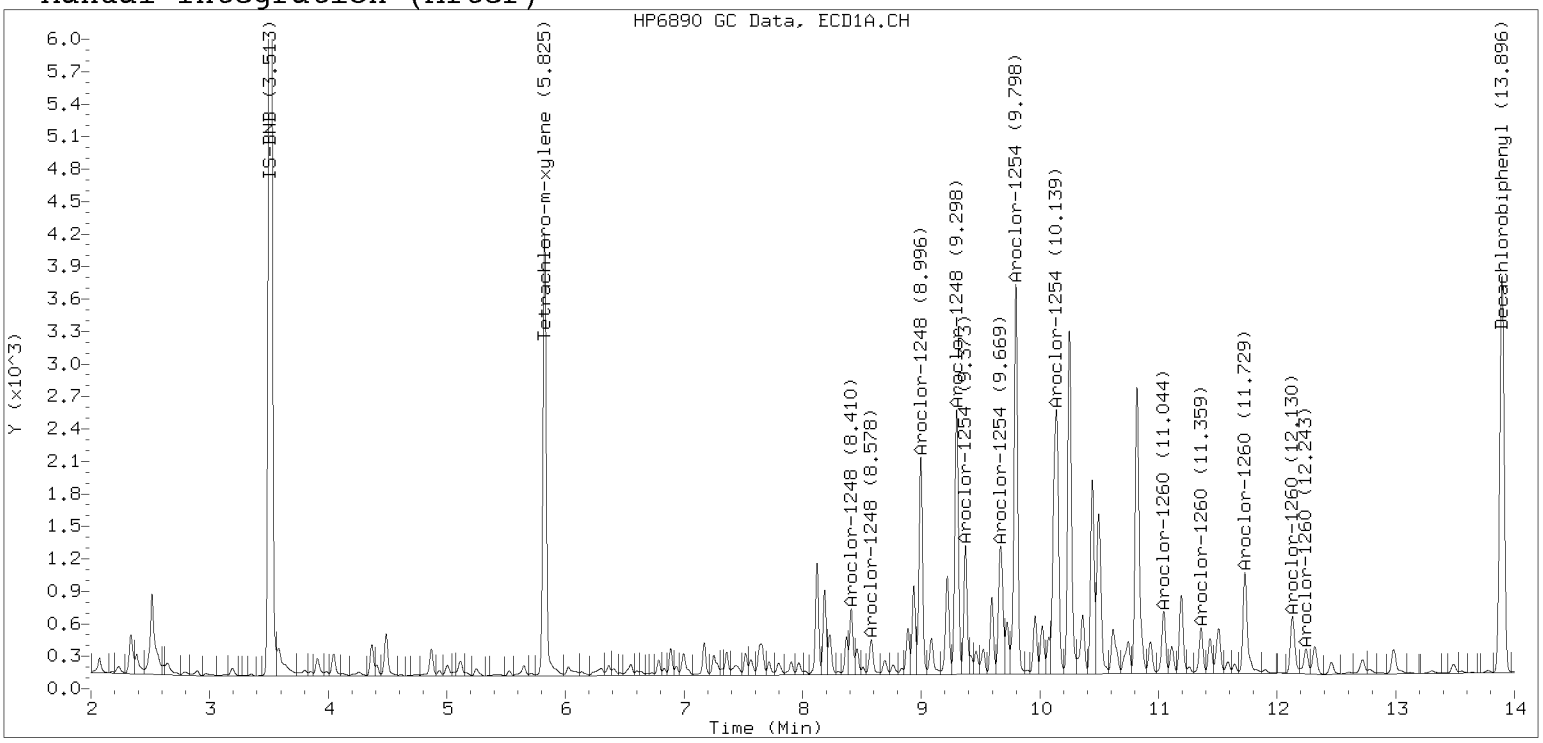


ZB-35 Manual Integration: YES

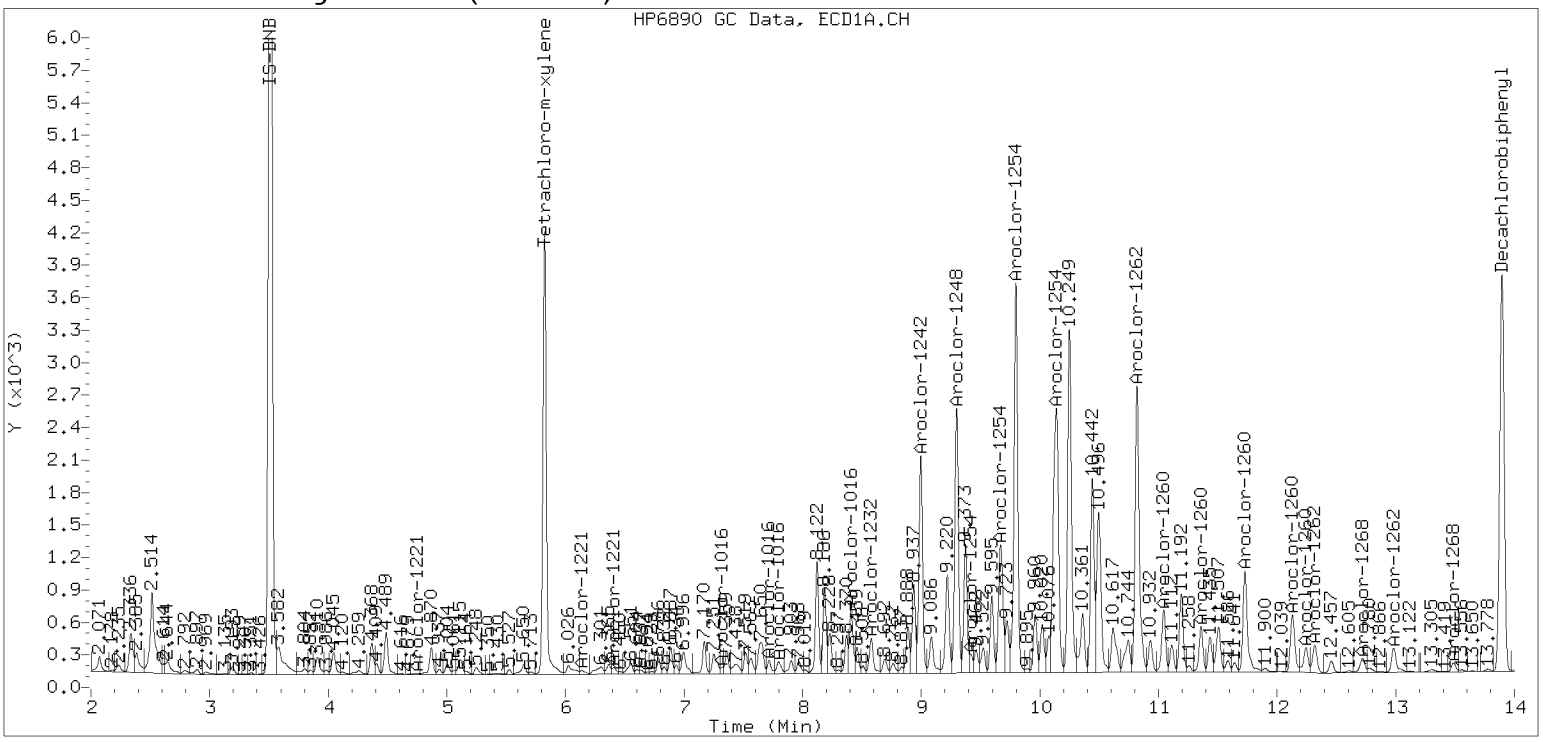
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042340ECD7.D Injection Date: 04-JAN-2023 23:06

Manual Integration (After)



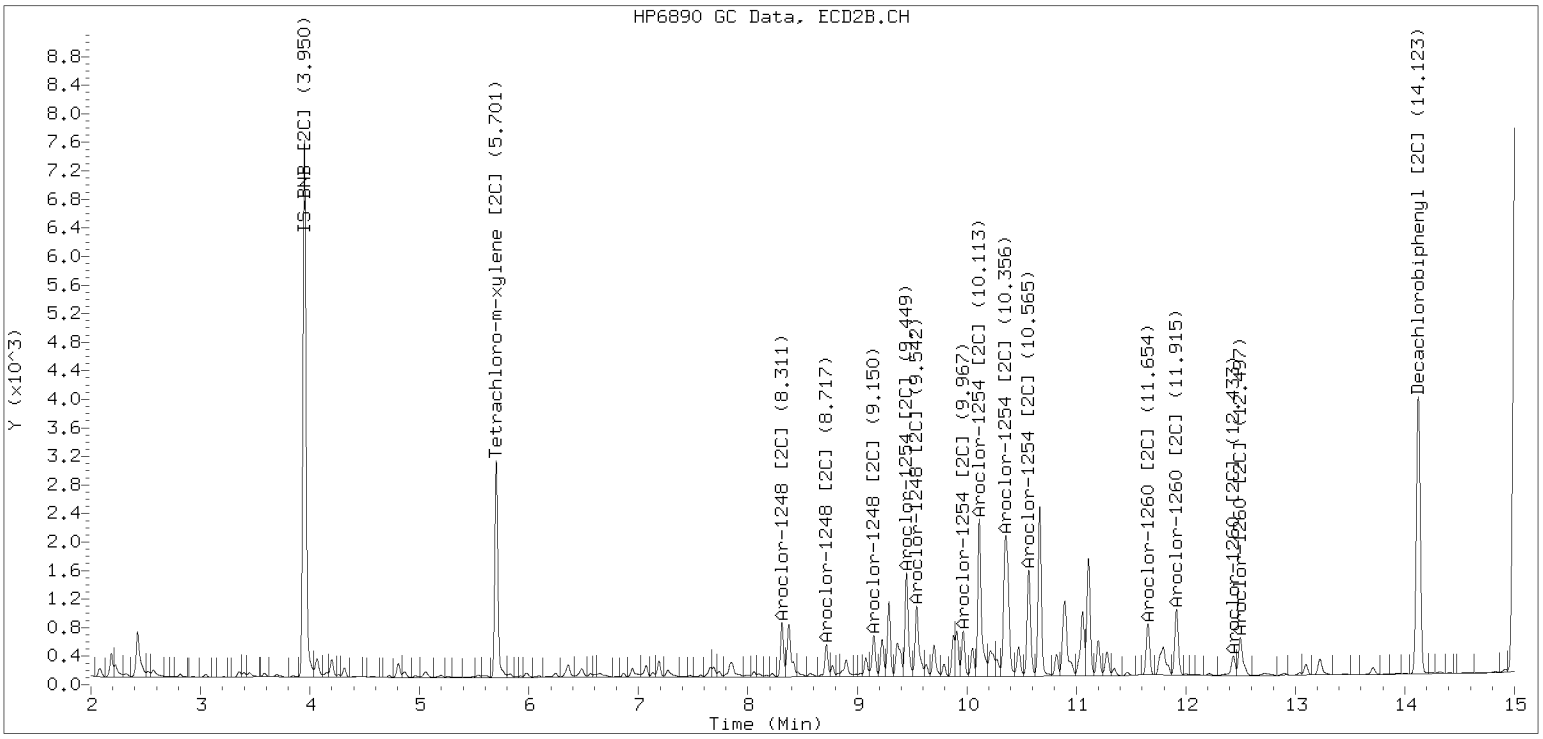
Processed Integration (Before)



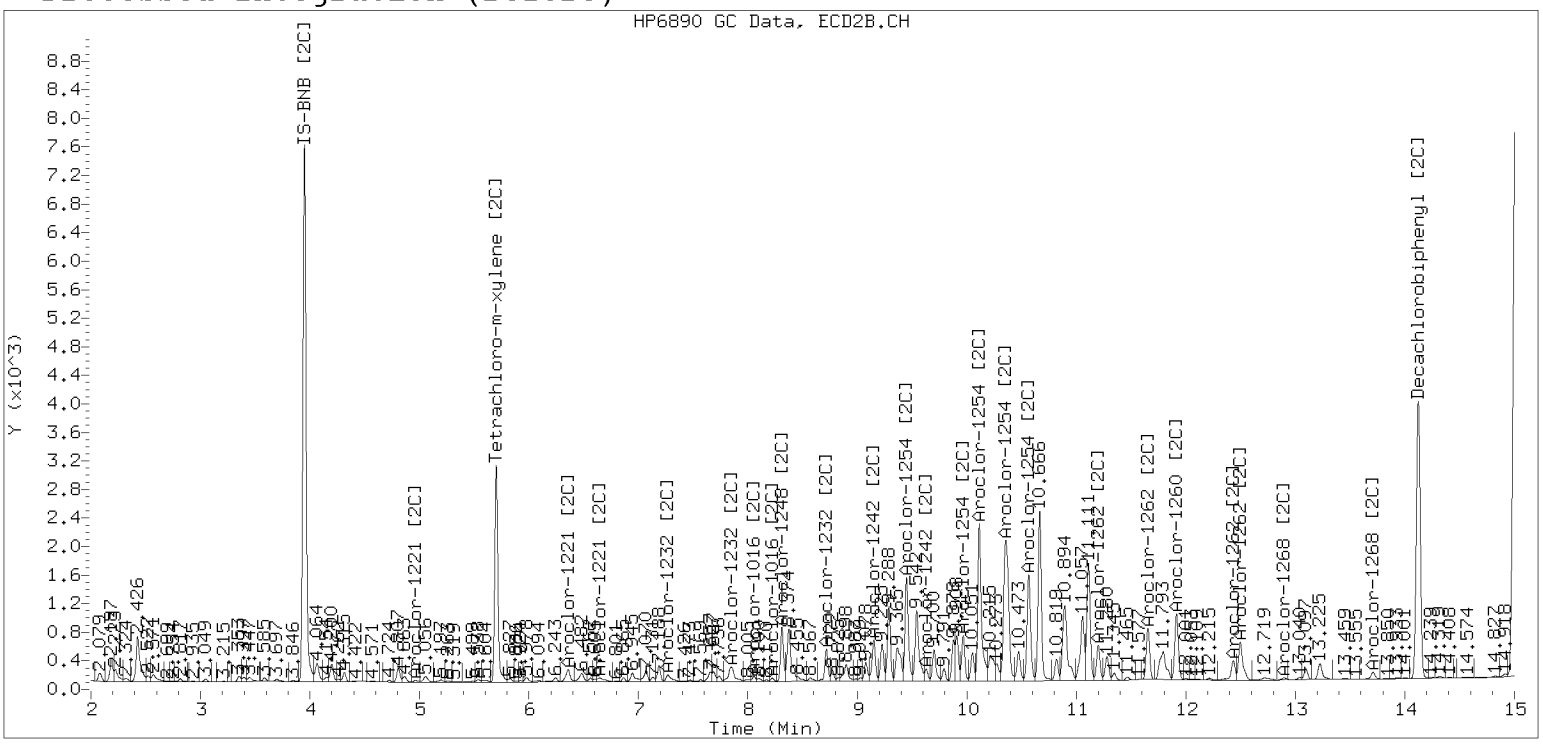
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042340ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-32 B	File ID:	01042341ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:27
% Solids:	58.62	Preparation:	EPA 3546 (Microwave)	Initial/Final:	21.36 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	7.9	1.6	4.0	
11097-69-1	Aroclor 1254	2	1	42.3	1.6	4.0	P1
11096-82-5	Aroclor 1260	2	1	178	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9864*	*8.53*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9864*	*4.76*	*59.5*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9864*	*7.75*	*97.0*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9864*	*5.25*	*65.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042341ECD7.D
Data file 2: /230104.b/230104.b/01042341ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-32
Client ID:
Injection Date: 04-JAN-2023 23:27
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.824	-0.006	140149	5.701	-0.006	102713	23.8	26.3	9.8	Tetrachloro-m-xylene
13.895	-0.007	168294	14.123	-0.005	188669	42.7	38.8	9.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	415214	-7.2
Hexabromobiphenyl	798898	429740	-46.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	285086	14.4
Hexabromobiphenyl	362541	342522	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.412	-0.016	5524	30.9	1	8.310	-0.011	9426	80.9
Aroclor-1248	2	8.573	-0.032	3644	16.0	2	8.716	-0.010	2049	16.7
Aroclor-1248	3	8.996	-0.026	25635	62.5	3	9.147	-0.023	3116	20.9
Aroclor-1248	4	9.299	-0.012	52791	~~262~~.8	4	9.539	-0.053	22239	1~~27~~.1
		Total Col1Ave (4 peaks):			~~93~~.1		Total Col2Ave (4 peaks):			~~61~~.4 RPD = 41*
		Corrected Ave (3 peaks):			36.5		Corrected Ave (3 peaks):			39.5 RPD = 8
Aroclor-1254	1	9.299	-0.022	52791	144.4	1	9.447	-0.013	39607	215.5
Aroclor-1254	2	9.371	-0.031	25429	178.9	2	9.905	-0.072	25399	171.9
Aroclor-1254	3	9.676	-0.018	17109	74.1	3	10.145	0.016	41290	130.0
Aroclor-1254	4	9.798	-0.033	43674	97.0	4	10.370	-0.008	108777	330.7
Aroclor-1254	5	10.248	0.058	35347	~~11~~4.6	5	10.562	-0.013	137971	869.6
		Total Col1Ave (5 peaks):			121.8		Total Col2Ave (5 peaks):			343.5 RPD = 95*
		Corrected Ave (4 peaks):			107.5		Corrected Ave (4 peaks):			212.0 RPD = 65*
					123.6					
Aroclor-1260	1	11.043	-0.012	174305	1114.3	1	11.652	-0.009	116747	645.7
Aroclor-1260	2	11.357	-0.014	122276	755.8	2	11.913	-0.011	364115	802.6
Aroclor-1260	3	11.728	-0.018	386937	910.2	3	12.432	-0.010	154099	1275.5
Aroclor-1260	4	12.128	-0.022	149033	688.4	4	12.496	-0.010	254379	841.1
Aroclor-1260	5	12.243	-0.012	130758	1475.5	NS	---			----
		Total Col1Ave (5 peaks):			988.8		Total Col2Ave (4 peaks):			891.2 RPD = 10
		Corrected Ave (4 peaks):			867.2		Corrected Ave (3 peaks):			763.1 RPD = 13
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 2908491 Col1 Total PCB = 0.7 ppm*

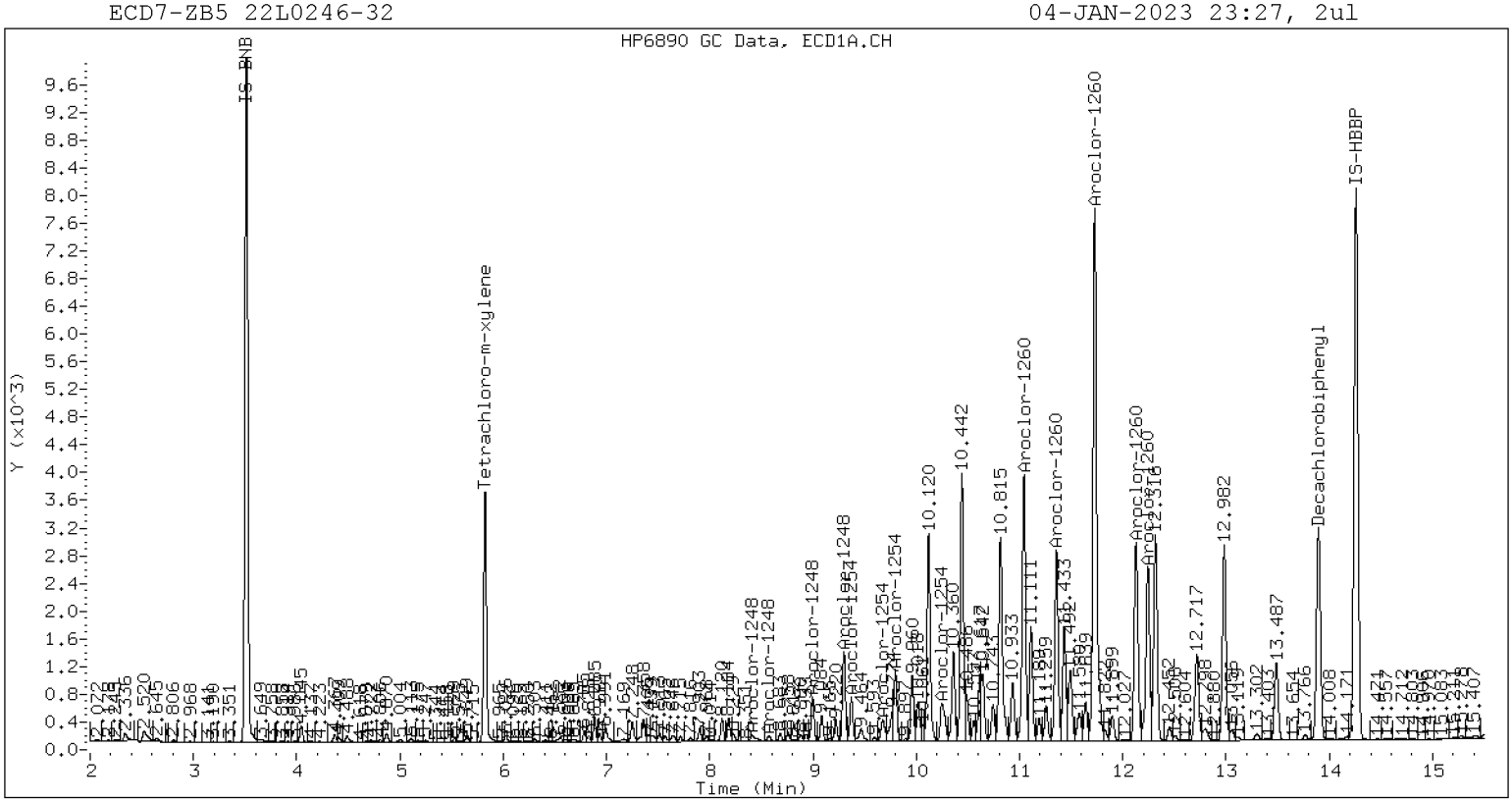
Total PCB Area Col2 (5.807 - 14.028) = 2561927 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

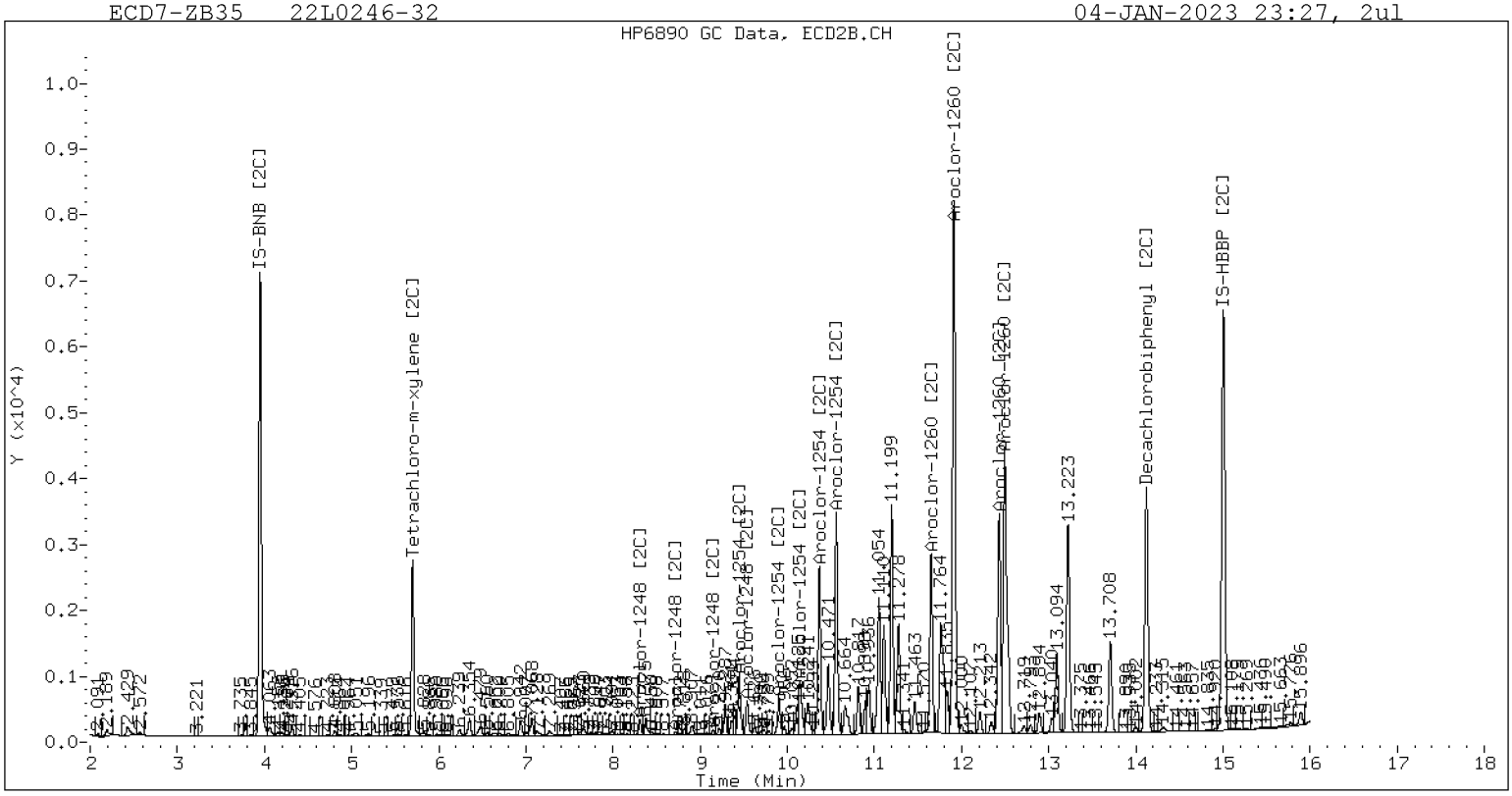
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-32 04-JAN-2023 23:27, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-32 04-JAN-2023 23:27, 2ul

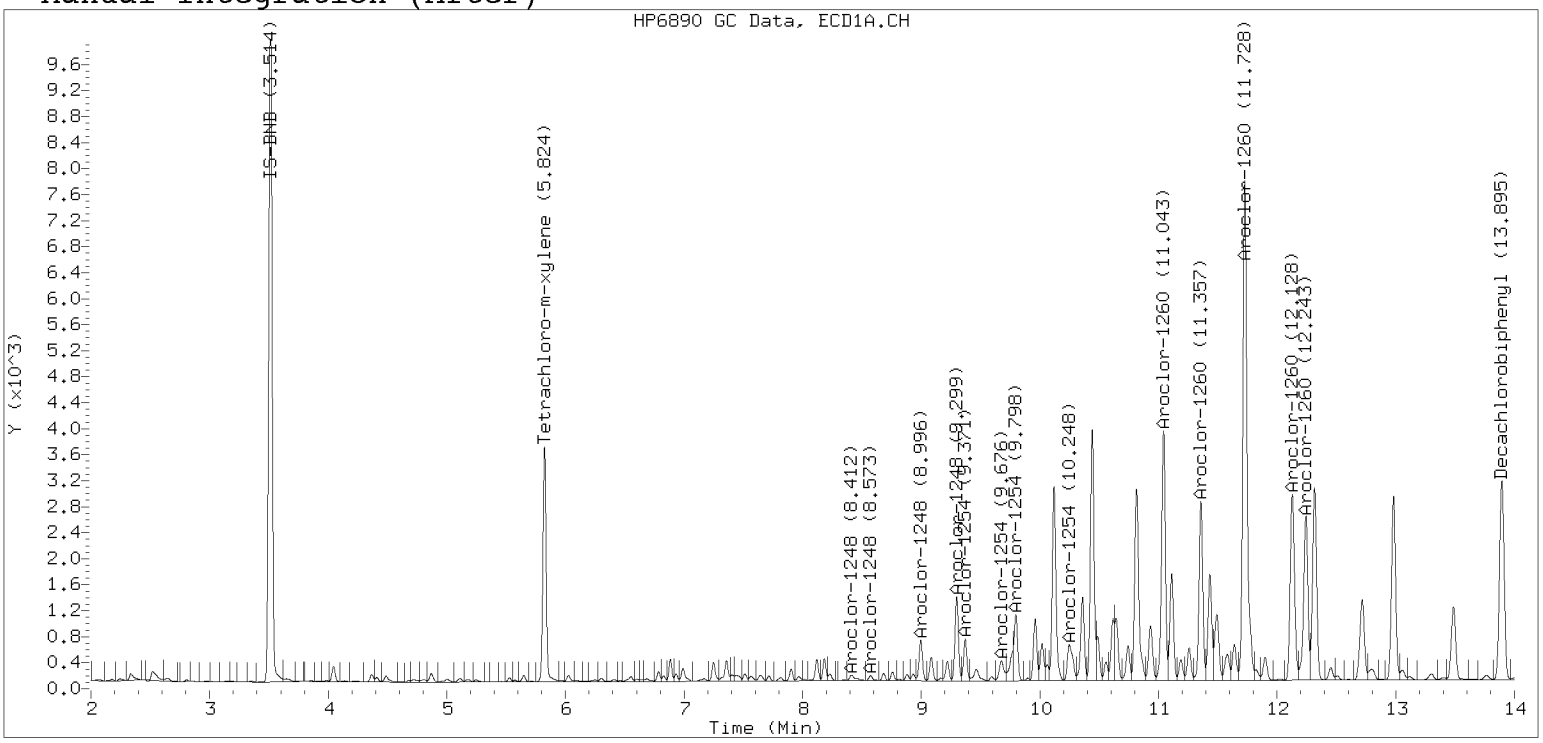


ZB-35 Manual Integration: YES

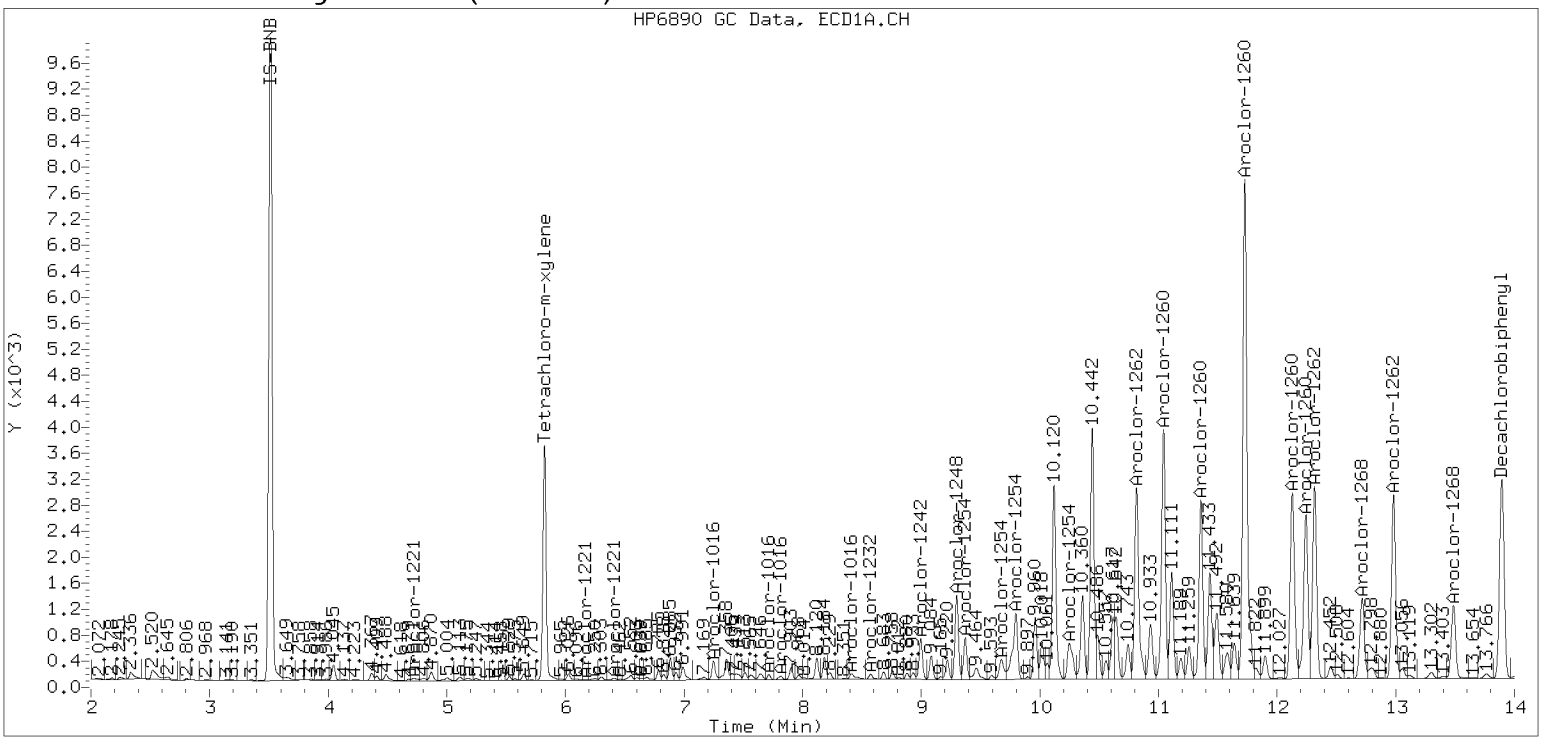
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042341ECD7.D Injection Date: 04-JAN-2023 23:27

Manual Integration (After)



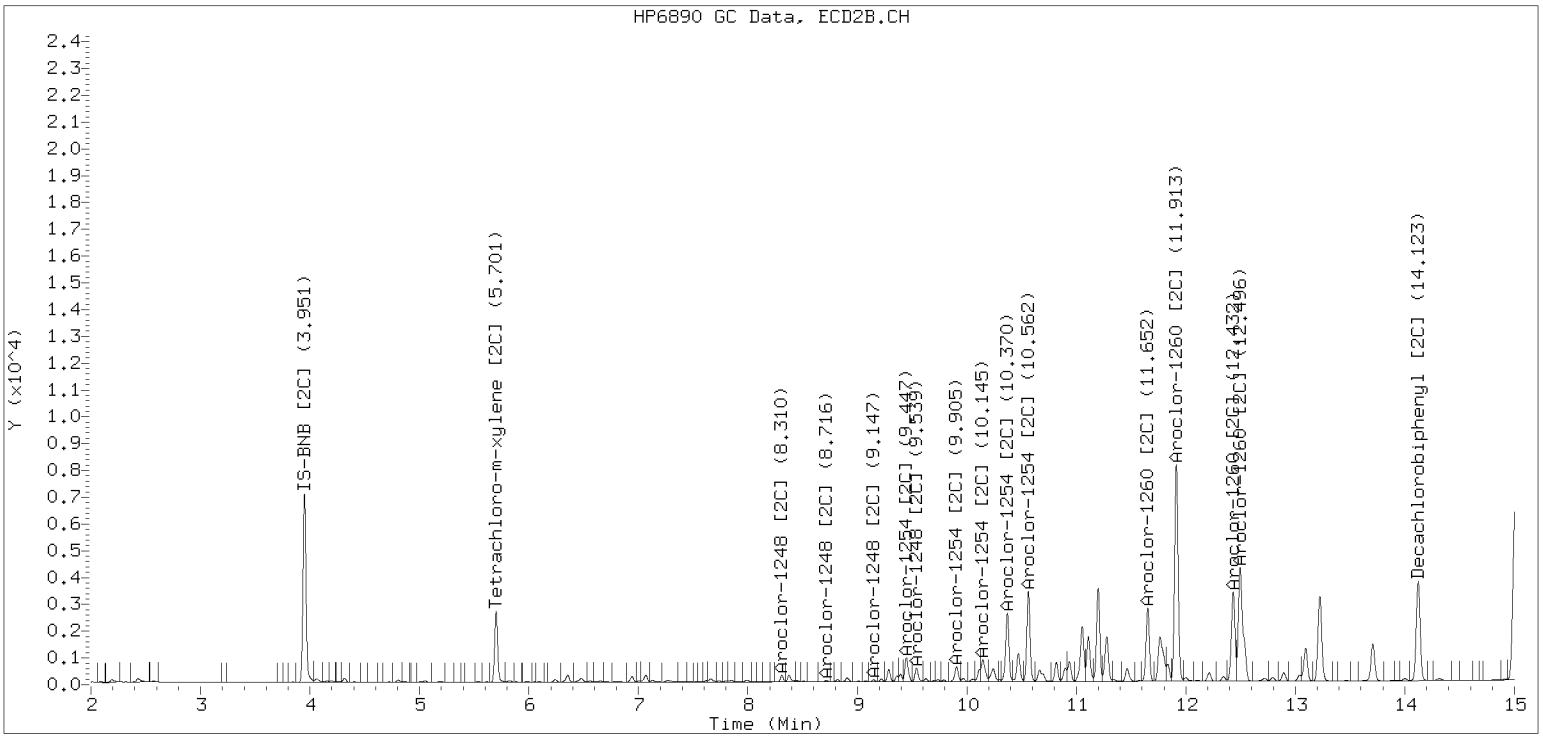
Processed Integration (Before)



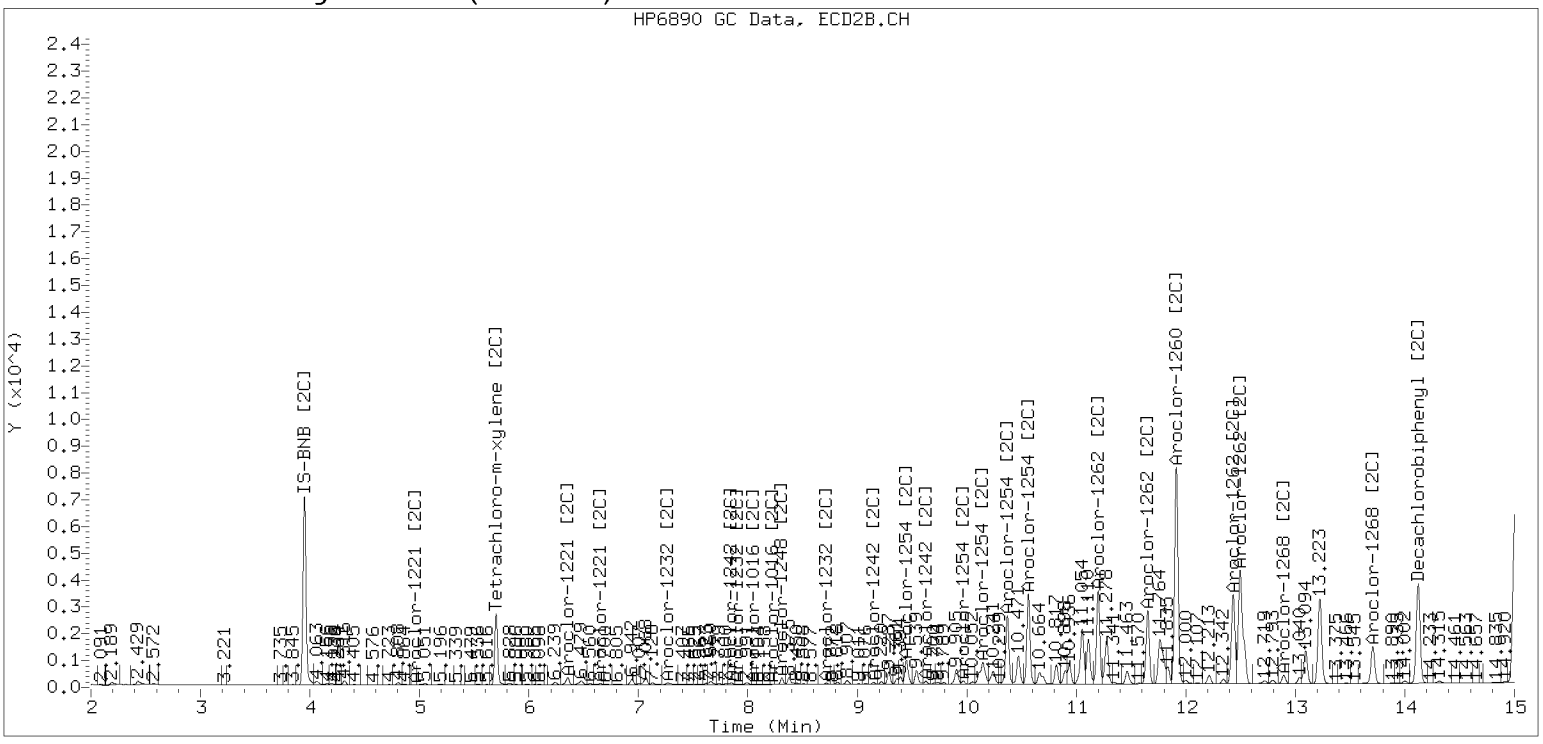
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042341ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-33 B	File ID:	01042342ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:48
% Solids:	64.30	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.49 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	10.5	1.6	4.0	P1
11096-82-5	Aroclor 1260	2	1	49.9	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9795*	*6.88*	*86.3*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9795*	*4.38*	*54.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9795*	*6.39*	*80.0*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9795*	*4.86*	*60.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042342ECD7.D
Data file 2: /230104.b/230104.b/01042342ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-33
Client ID:
Injection Date: 04-JAN-2023 23:48
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	157942	5.702	-0.005	116529	21.9	24.3	10.3	Tetrachloro-m-xylene
13.895	-0.007	176781	14.122	-0.006	195071	34.5	32.0	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	507784	13.4
Hexabromobiphenyl	798898	558821	-30.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	349213	40.2
Hexabromobiphenyl	362541	429215	18.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.412	-0.015	1109	5.1	1	8.311	-0.010	973	6.8
Aroclor-1248	2	8.572	-0.032	1426	5.1	2	8.717	-0.009	390	2.6
Aroclor-1248	3	8.997	-0.026	5561	11.1	3	9.148	-0.023	959	5.3
Aroclor-1248	4	9.299	-0.012	11222	45.7	4	9.590	-0.002	633	3.0
	Total Col1Ave (4 peaks):				16.7	Total Col2Ave (4 peaks):				4.4 RPD = 117*
	Corrected Ave (3 peaks):				7.1	Corrected Ave (3 peaks):				3.6 RPD = 65*
Aroclor-1254	1	9.299	-0.022	11222	25.1	1	9.449	-0.011	7847	34.9
Aroclor-1254	2	9.371	-0.031	6338	36.5	2	9.910	-0.067	7231	39.9
Aroclor-1254	3	9.675	-0.020	4429	15.7	3	10.145	0.016	19802	50.9
Aroclor-1254	4	9.796	-0.035	12822	23.3	4	10.369	-0.008	34324	85.2
Aroclor-1254	5	10.119	-0.070	41026	108.7	5	10.562	-0.013	46296	238.2
	Total Col1Ave (5 peaks):				41.9	Total Col2Ave (5 peaks):				89.8 RPD = 73*
	Corrected Ave (4 peaks):				25.1	Corrected Ave (4 peaks):				52.7 RPD = 71*
Aroclor-1260	1	11.042	-0.013	71647	352.2	1	11.652	-0.008	39067	172.4
Aroclor-1260	2	11.356	-0.016	44119	209.7	2	11.913	-0.010	127601	224.4
Aroclor-1260	3	11.728	-0.018	125467	227.0	3	12.433	-0.010	55516	366.7
Aroclor-1260	4	12.129	-0.021	52742	187.4	4	12.496	-0.010	89836	237.0
Aroclor-1260	5	12.243	-0.012	51965	450.9	NS	---			----
	Total Col1Ave (5 peaks):				285.4	Total Col2Ave (4 peaks):				250.2 RPD = 13
	Corrected Ave (4 peaks):				244.1	Corrected Ave (3 peaks):				211.3 RPD = 14
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 1098662 Col1 Total PCB = 0.2 ppm*

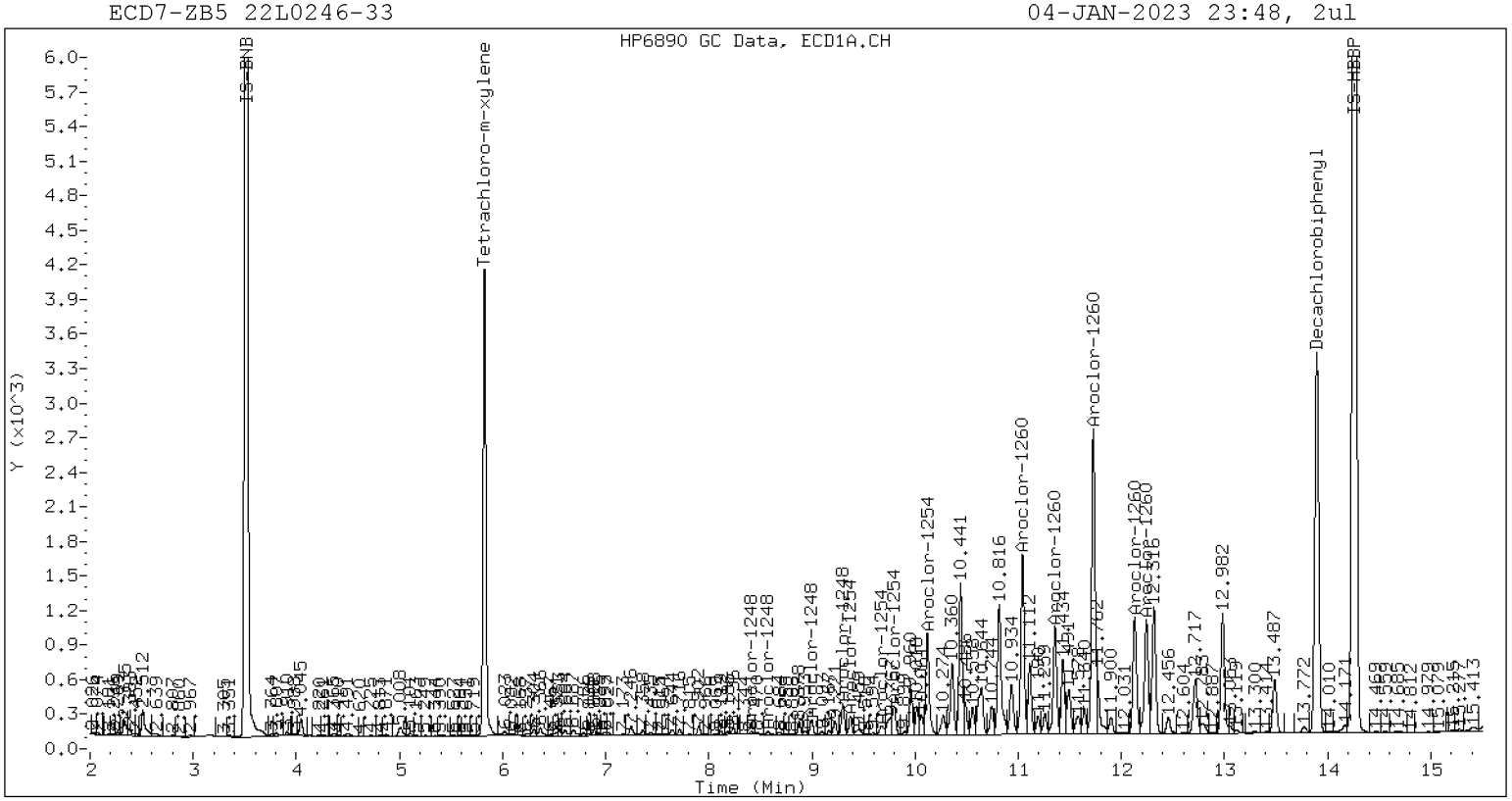
Total PCB Area Col2 (5.807 - 14.028) = 934274 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

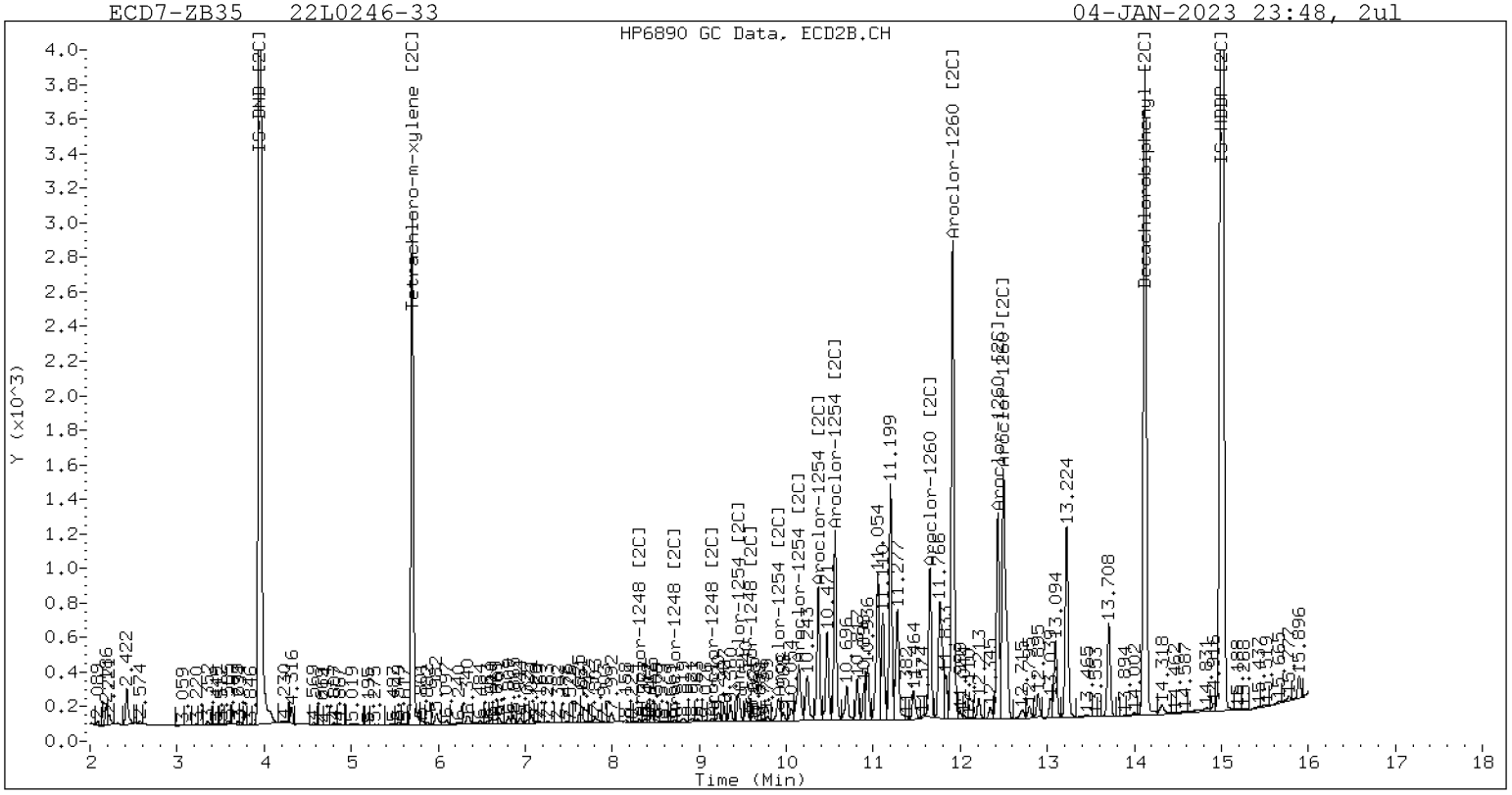
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-33 04-JAN-2023 23:48, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-33 04-JAN-2023 23:48, 2ul

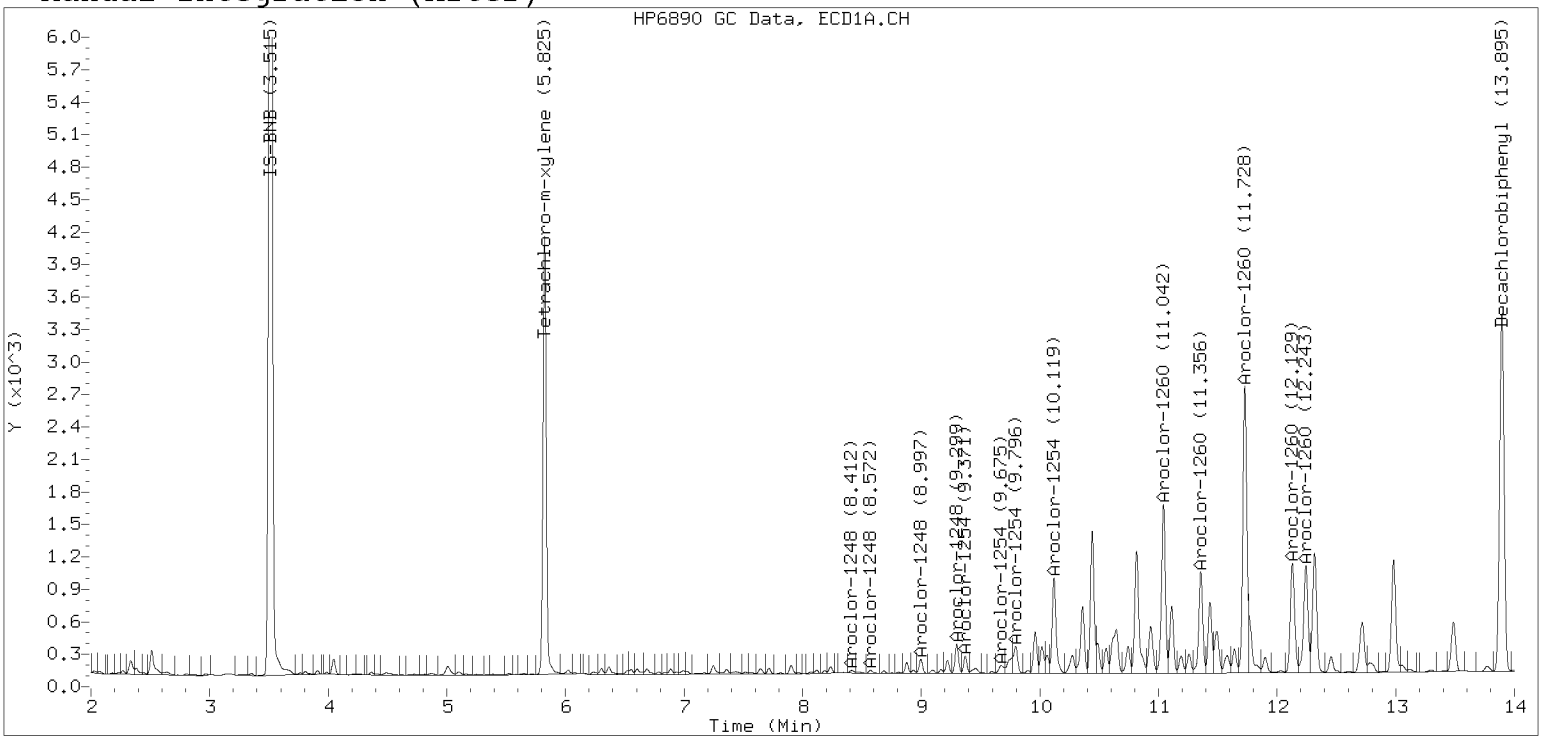


ZB-35 Manual Integration: YES

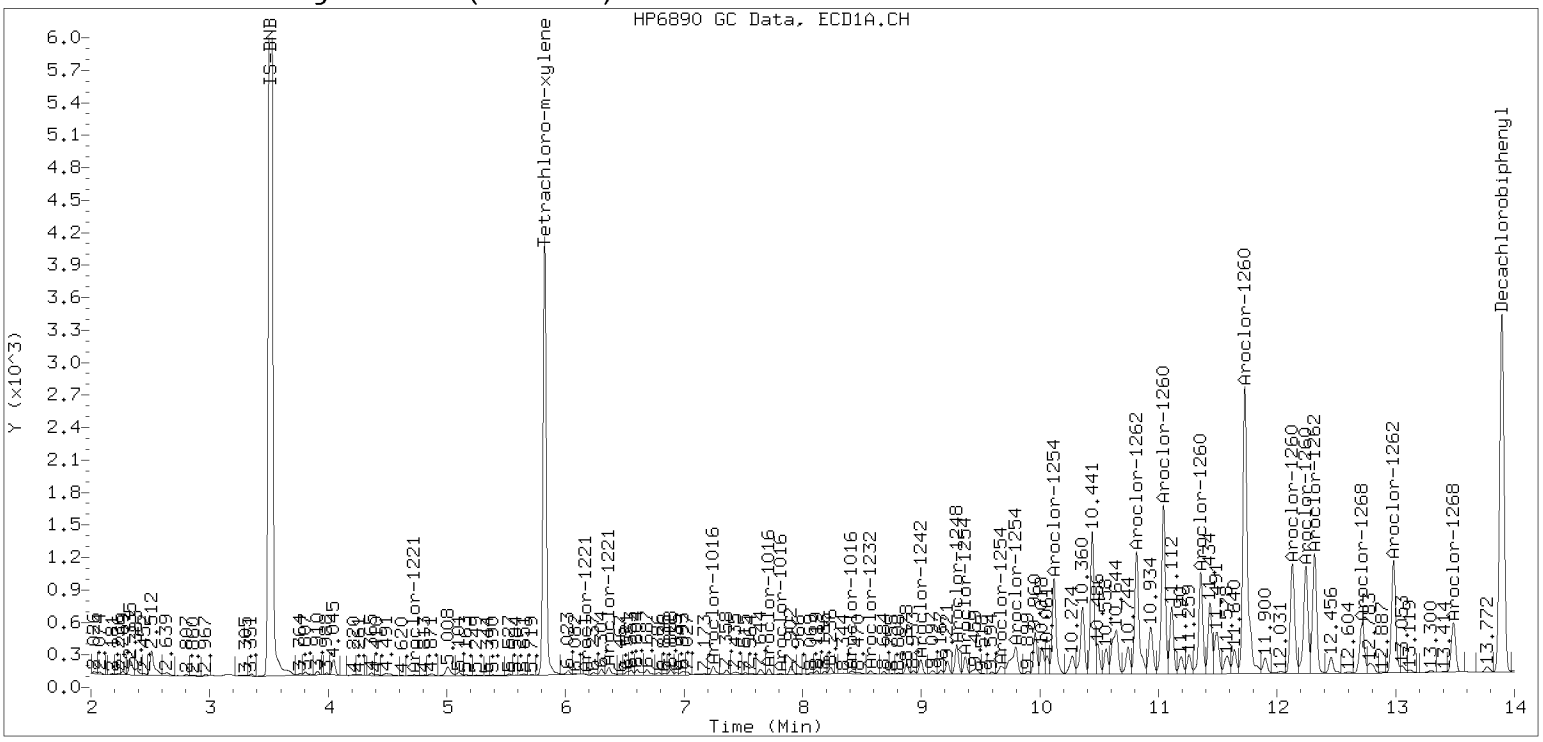
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042342ECD7.D Injection Date: 04-JAN-2023 23:48

Manual Integration (After)



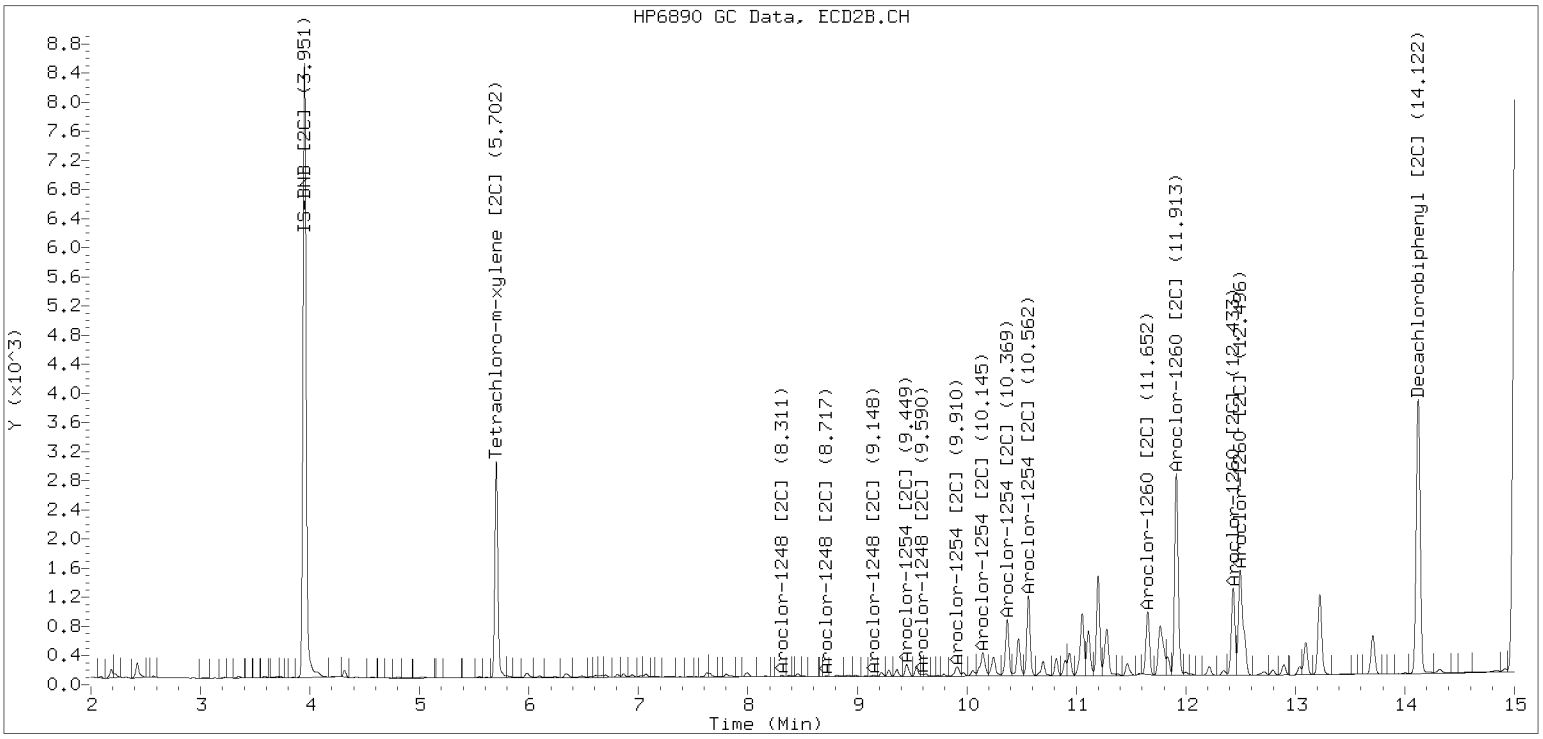
Processed Integration (Before)



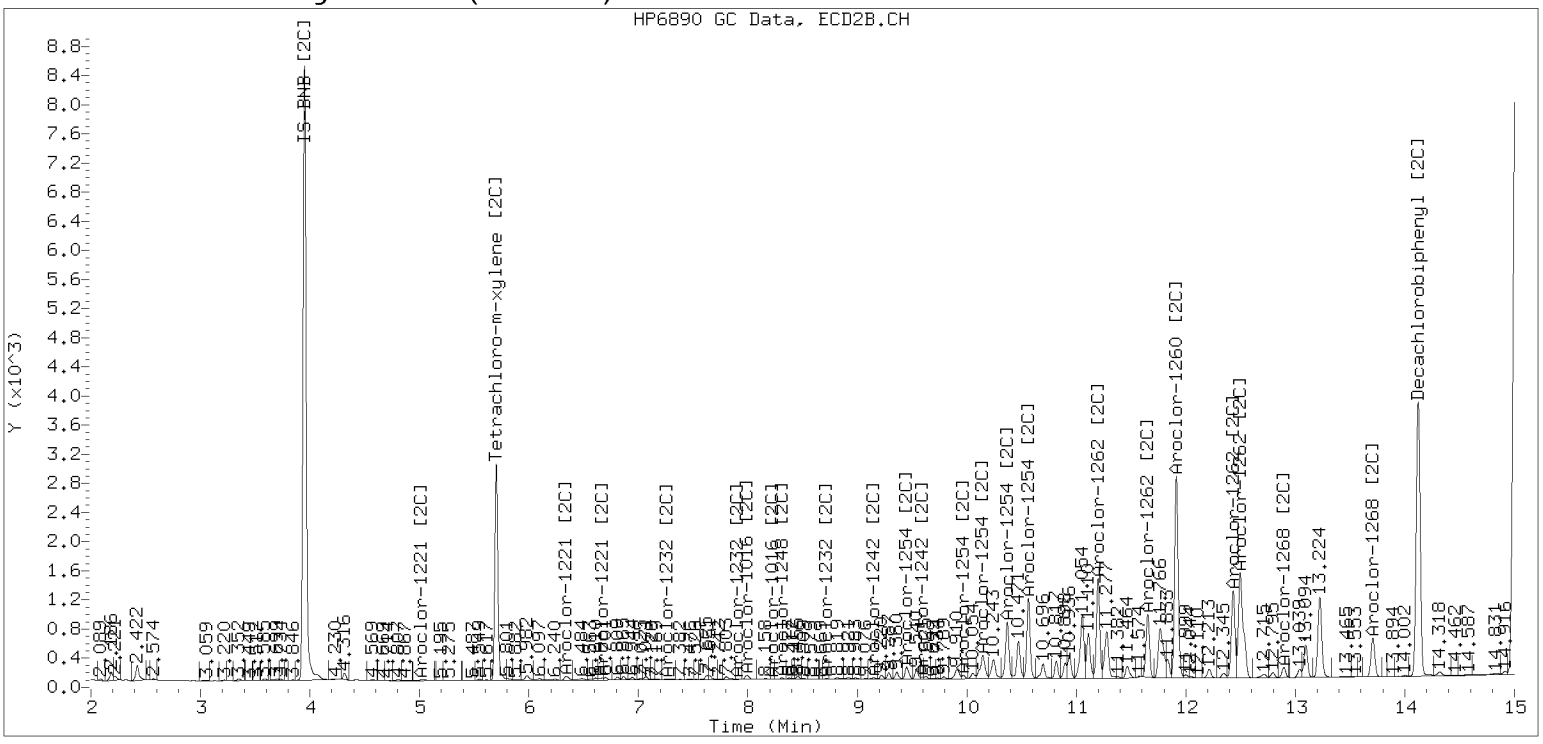
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042342ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC777I

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-34 B	File ID:	01092348ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 01:34
% Solids:	62.97	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.85 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	20.0	7.8	20.0	U
11097-69-1	Aroclor 1254	1	5	20.0	7.8	20.0	U
11096-82-5	Aroclor 1260	1	5	486	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0003*	*8.59*	*107*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0003*	*4.90*	*61.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092348ECD7.D
Data file 2: /230109.b/230109.b/01092348ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-34
Client ID:
Injection Date: 10-JAN-2023 01:34
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.009	30391	5.703	-0.010	22867	4.9	5.7	14.3	Tetrachloro-m-xylene
13.895	-0.013	43634	14.122	-0.015	41581	8.6	7.4	15.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	437365	-2.3
Hexabromobiphenyl	798898	554034	-30.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	294830	18.4
Hexabromobiphenyl	362541	398221	9.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	11.044	-0.018	121010	600.0	1	11.652	-0.017	71278	339.1
Aroclor-1260	2	11.359	-0.018	79114	379.3	2	11.914	-0.019	201043	381.1
Aroclor-1260	3	11.729	-0.022	226700	413.7	3	12.432	-0.019	88466	629.8
Aroclor-1260	4	12.131	-0.028	90362	323.8	4	12.498	-0.019	144554	411.1
Aroclor-1260	5	12.244	-0.017	81238	711.0	NS	---			----
		Total Col1Ave (5 peaks):			485.6	Total Col2Ave (4 peaks):			440.3	RPD = 10
		Corrected Ave (4 peaks):			429.2	Corrected Ave (3 peaks):			377.1	RPD = 13
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 1635896 Col1 Total PCB = 0.4 ppm*

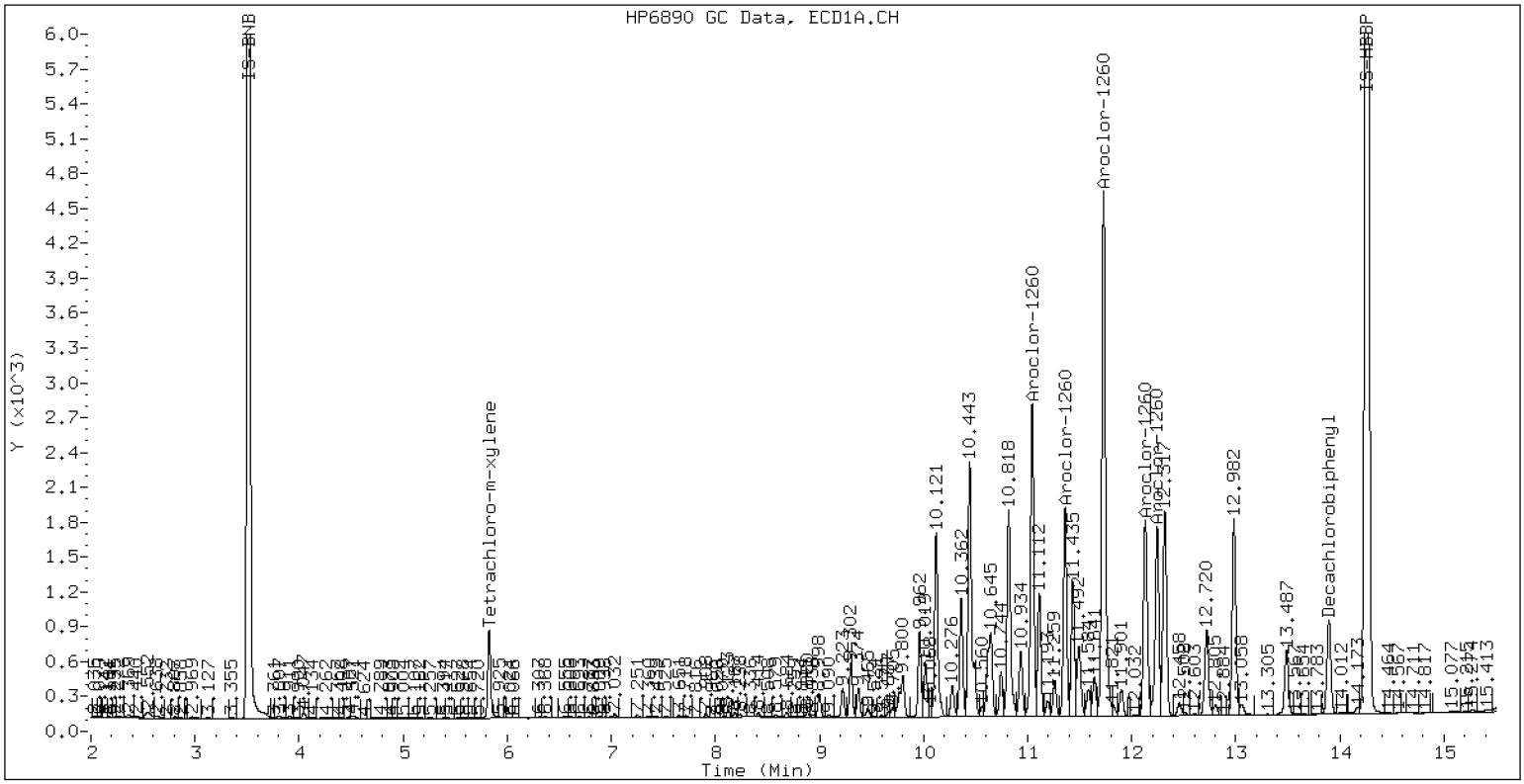
Total PCB Area Col2 (5.813 - 14.037) = 1378211 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

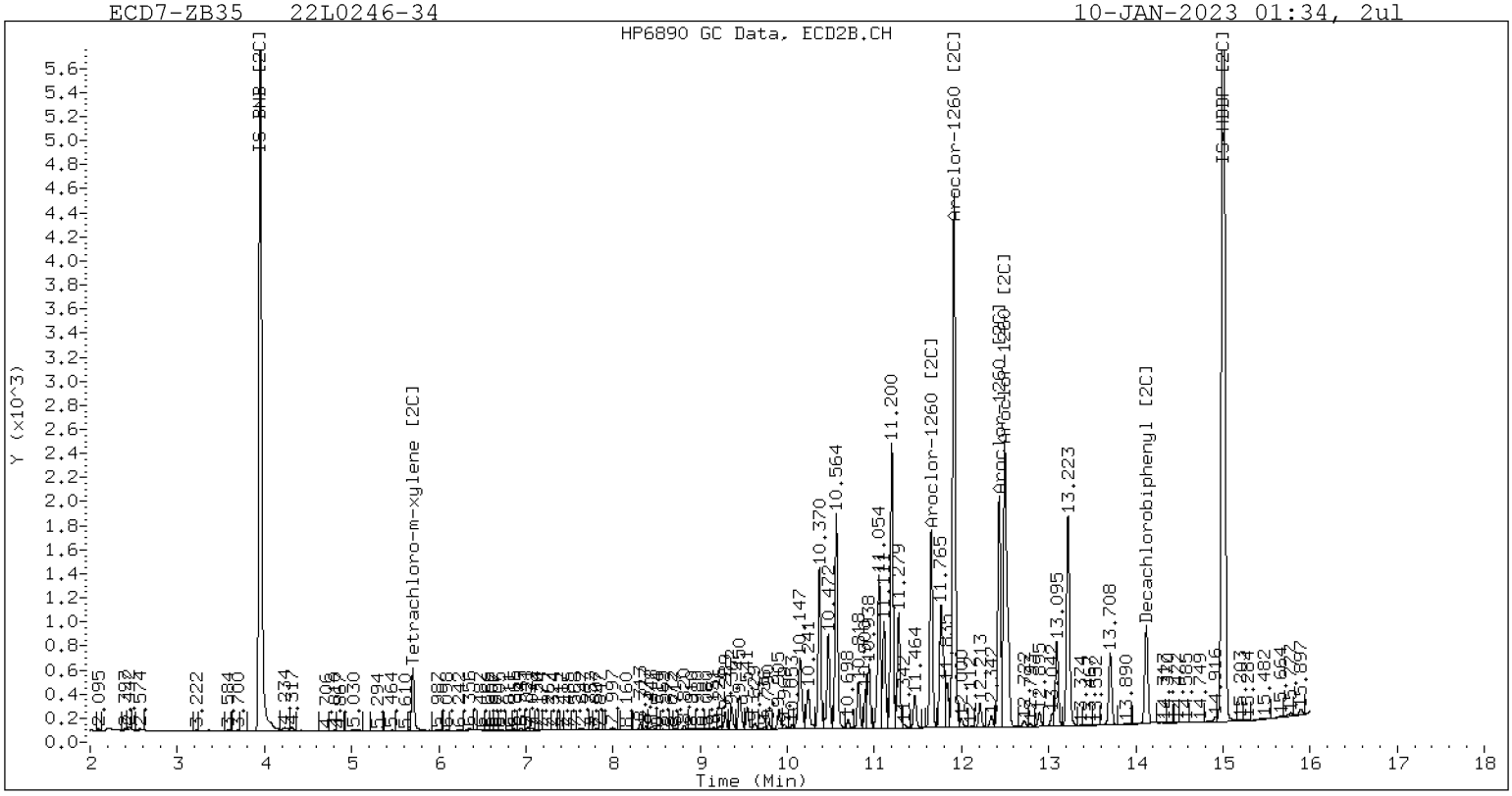
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-34 10-JAN-2023 01:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-34 10-JAN-2023 01:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-35 B	File ID:	01092346ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 00:52
% Solids:	63.10	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.87 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	19.9	7.8	19.9	U
11104-28-2	Aroclor 1221	1	5	19.9	7.8	19.9	U
11141-16-5	Aroclor 1232	1	5	19.9	7.8	19.9	U
53469-21-9	Aroclor 1242	1	5	19.9	7.8	19.9	U
12672-29-6	Aroclor 1248	1	5	475	7.8	19.9	D
11097-69-1	Aroclor 1254	1	5	602	7.8	19.9	D
11096-82-5	Aroclor 1260	2	5	290	2.9	19.9	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9758*	*8.61*	*108*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9758*	*6.73*	*84.3*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9758*	*8.29*	*104*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9758*	*6.92*	*86.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092346ECD7.D
Data file 2: /230109.b/230109.b/01092346ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-35
Client ID:
Injection Date: 10-JAN-2023 00:52
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.009	43944	5.704	-0.010	29576	6.7	6.9	2.9	Tetrachloro-m-xylene
13.893	-0.014	50637	14.121	-0.016	51504	8.6	8.3	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	459613	2.7
Hexabromobiphenyl	798898	639972	-19.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	310776	24.8
Hexabromobiphenyl	362541	436508	20.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.412	-0.015	66983	339.0	1	8.313	-0.013	69990	551.3
Aroclor-1248	2	8.581	-0.023	56239	222.9	2	8.719	-0.014	48679	364.6
Aroclor-1248	3	8.999	-0.023	189835	418.2	3	9.152	-0.025	59114	363.9
Aroclor-1248	4	9.301	-0.010	205909	926.0	4	9.629	0.027	11282	59.2
		Total Col1Ave (4 peaks):			476.5	Total Col2Ave (4 peaks):				334.7 RPD = 35
		Corrected Ave (3 peaks):			326.7	Corrected Ave (3 peaks):				262.6 RPD = 22
Aroclor-1254	1	9.301	-0.020	205909	508.8	1	9.449	-0.017	115921	578.5
Aroclor-1254	2	9.376	-0.026	94366	599.6	2	9.967	-0.019	57881	359.3
Aroclor-1254	3	9.666	-0.028	99647	389.9	3	10.115	-0.024	200896	580.2
Aroclor-1254	4	9.801	-0.030	281775	565.6	4	10.363	-0.026	237761	663.0
Aroclor-1254	5	10.135	-0.055	326367	955.6	5	10.565	-0.022	143319	828.6
		Total Col1Ave (5 peaks):			603.9	Total Col2Ave (5 peaks):				601.9 RPD = 0
		Corrected Ave (4 peaks):			516.0	Corrected Ave (4 peaks):				545.3 RPD = 6
Aroclor-1260	1	11.045	-0.017	73383	315.0	1	11.653	-0.016	83480	362.3
Aroclor-1260	2	11.361	-0.017	61183	253.9	2	11.914	-0.018	145918	252.4
Aroclor-1260	3	11.730	-0.021	167807	265.1	3	12.433	-0.018	43550	282.9
Aroclor-1260	4	12.130	-0.028	97990	304.0	4	12.497	-0.020	102342	265.5
Aroclor-1260	5	12.245	-0.016	38341	290.5	NS	---			----
		Total Col1Ave (5 peaks):			285.7	Total Col2Ave (4 peaks):				290.8 RPD = 2
		Corrected Ave (4 peaks):			278.4	Corrected Ave (3 peaks):				266.9 RPD = 4
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 4057895 Col1 Total PCB = 0.9 ppm*

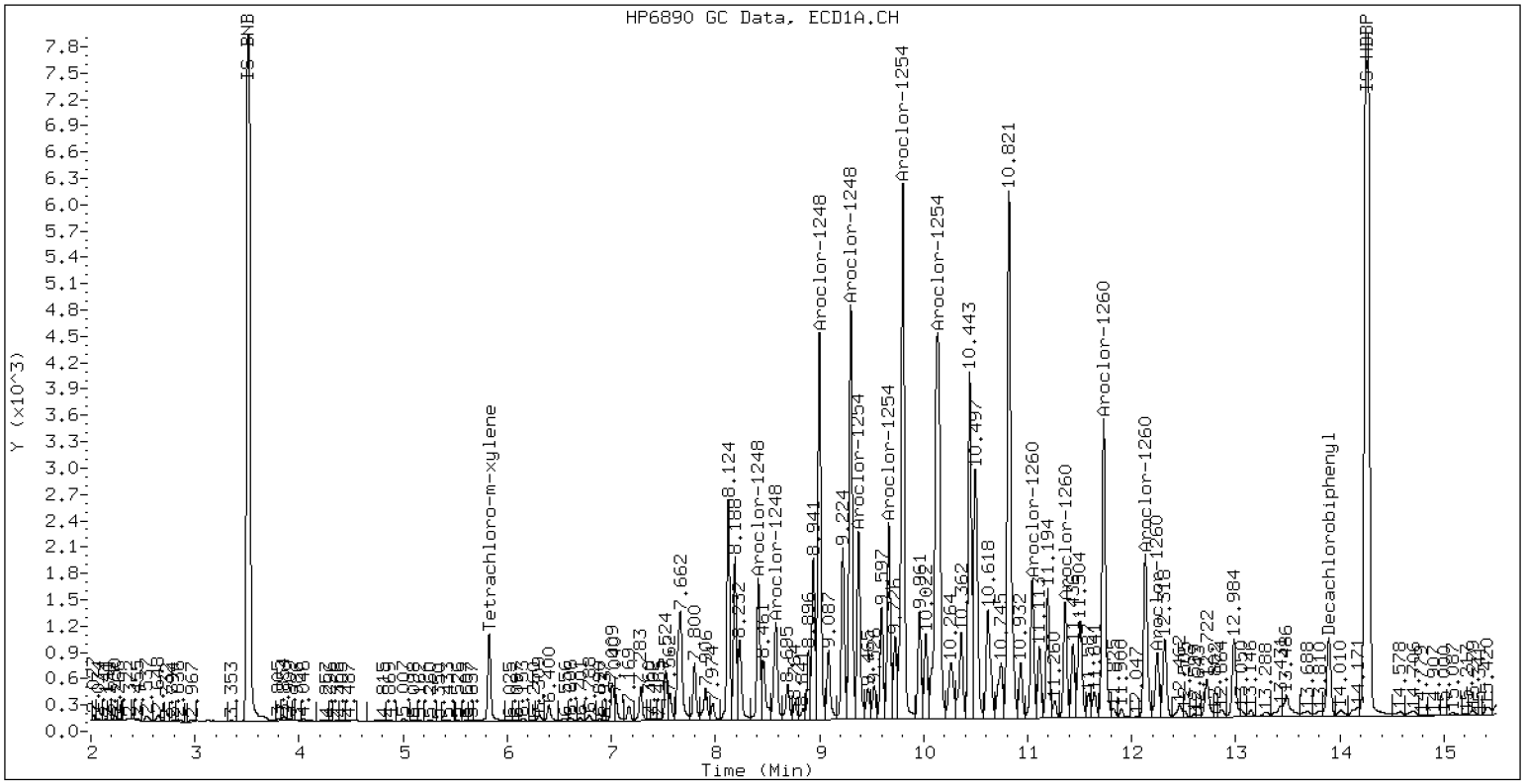
Total PCB Area Col2 (5.813 - 14.037) = 2935776 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

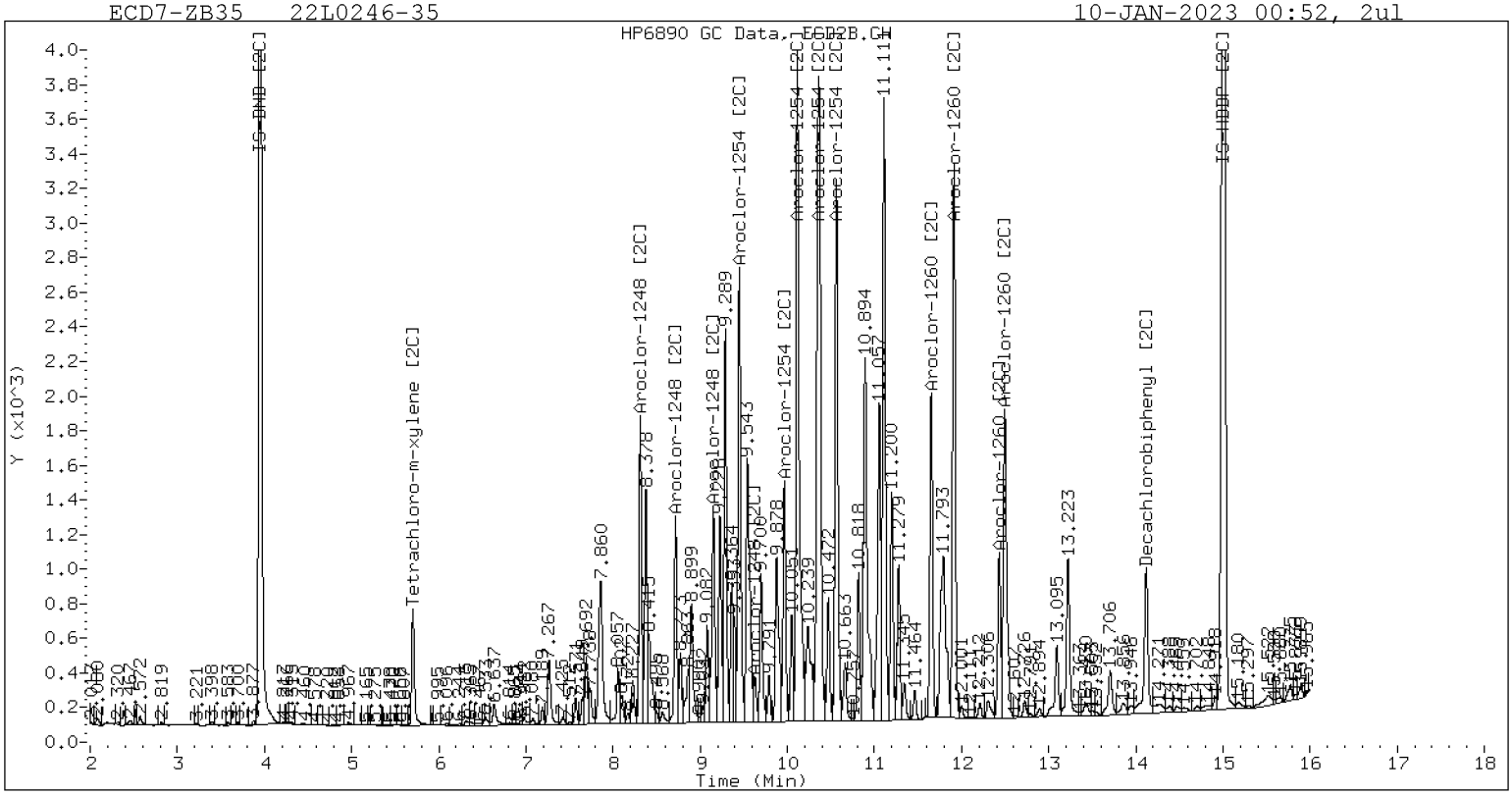
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-35 10-JAN-2023 00:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-35 10-JAN-2023 00:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-36 B	File ID:	01092347ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 01:13
% Solids:	64.46	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.42 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0129	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	474	7.8	20.0	D
11097-69-1	Aroclor 1254	1	5	553	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	165	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9884*	*8.32*	*104*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9884*	*6.46*	*80.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9884*	*7.43*	*93.0*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9884*	*6.84*	*85.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092347ECD7.D
Data file 2: /230109.b/230109.b/01092347ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-36
Client ID:
Injection Date: 10-JAN-2023 01:13
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.009	42811	5.703	-0.010	30083	6.5	6.9	5.7	Tetrachloro-m-xylene
13.895	-0.013	52793	14.121	-0.016	48595	8.3	7.4	11.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466772	4.3
Hexabromobiphenyl	798898	690854	-13.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	320227	28.6
Hexabromobiphenyl	362541	459838	26.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.414	-0.014	71973	358.6	1	8.313	-0.013	94913	725.5
Aroclor-1248	2	8.581	-0.024	57883	225.9	2	8.718	-0.014	56469	410.4
Aroclor-1248	3	9.000	-0.022	203141	440.7	3	9.153	-0.024	53118	317.4
Aroclor-1248	4	9.301	-0.010	197707	875.5	4	9.630	0.028	15166	77.2
	Total Col1Ave (4 peaks):				475.2	Total Col2Ave (4 peaks):				382.6 RPD = 22
	Corrected Ave (3 peaks):				341.7	Corrected Ave (3 peaks):				268.3 RPD = 24
Aroclor-1254	1	9.301	-0.020	197707	481.1	1	9.451	-0.016	108663	526.3
Aroclor-1254	2	9.376	-0.025	92248	577.2	2	9.968	-0.019	46680	281.2
Aroclor-1254	3	9.668	-0.027	83817	322.9	3	10.116	-0.024	195759	548.7
Aroclor-1254	4	9.802	-0.029	282474	558.3	4	10.364	-0.025	209130	566.0
Aroclor-1254	5	10.129	-0.060	288507	831.8	5	10.565	-0.021	111620	626.3
	Total Col1Ave (5 peaks):				554.2	Total Col2Ave (5 peaks):				509.7 RPD = 8
	Corrected Ave (4 peaks):				484.9	Corrected Ave (4 peaks):				480.5 RPD = 1
Aroclor-1260	1	11.046	-0.016	51177	203.5	1	11.654	-0.015	57492	236.9
Aroclor-1260	2	11.362	-0.016	39517	151.9	2	11.915	-0.018	83312	136.8
Aroclor-1260	3	11.731	-0.021	98709	144.4	3	12.434	-0.017	24510	151.1
Aroclor-1260	4	12.131	-0.027	53999	155.2	4	12.499	-0.018	56063	138.1
Aroclor-1260	5	12.245	-0.016	22842	160.3	NS	---			----
	Total Col1Ave (5 peaks):				163.1	Total Col2Ave (4 peaks):				165.7 RPD = 2
	Corrected Ave (4 peaks):				153.0	Corrected Ave (3 peaks):				142.0 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 3556070 Col1 Total PCB = 0.8 ppm*

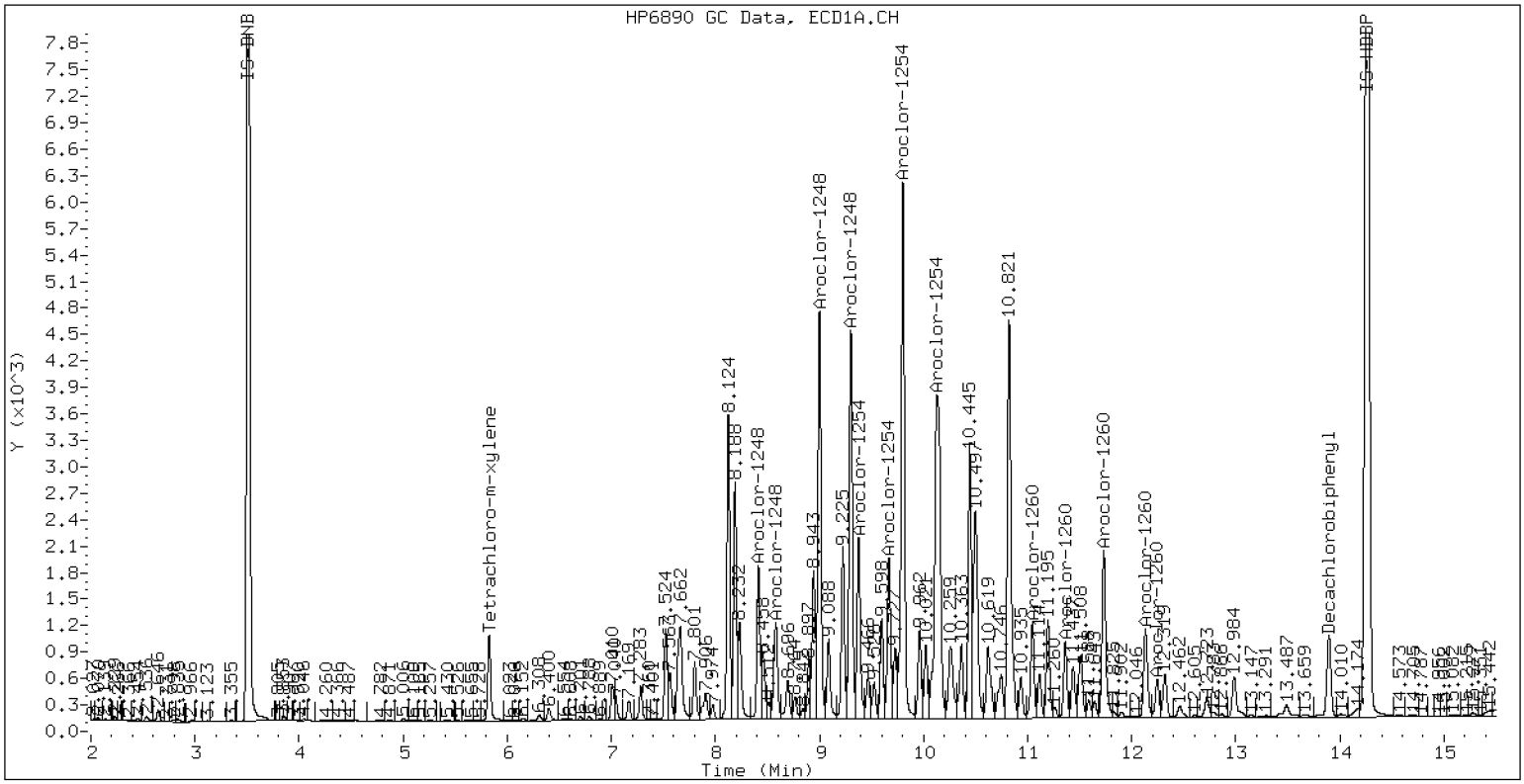
Total PCB Area Col2 (5.813 - 14.037) = 2548341 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

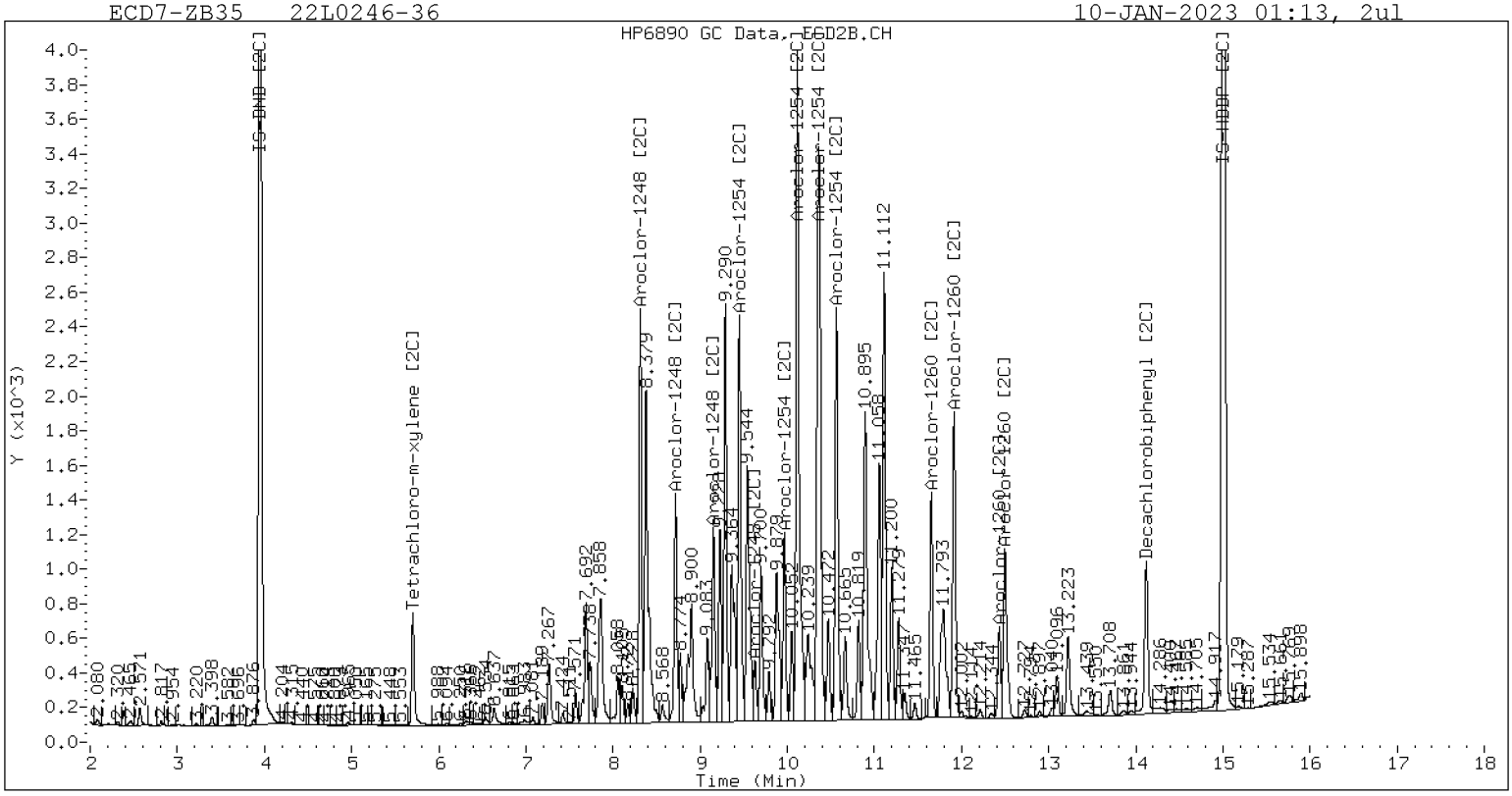
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-36 10-JAN-2023 01:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-36 10-JAN-2023 01:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-37 B	File ID:	01042346ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/05/23 01:12
% Solids:	74.50	Preparation:	EPA 3546 (Microwave)	Initial/Final:	16.78 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	2	1	22.2	1.6	4.0	P1
11097-69-1	Aroclor 1254	2	1	14.4	1.6	4.0	
11096-82-5	Aroclor 1260	2	1	12.0	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9993*	*7.41*	*92.6*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9993*	*5.56*	*69.6*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9993*	*7.06*	*88.3*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9993*	*6.10*	*76.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042346ECD7.D
Data file 2: /230104.b/230104.b/01042346ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-37
Client ID:
Injection Date: 05-JAN-2023 01:12
Report Date: 01/13/2023 10:44
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	192698	5.704	-0.003	135671	27.8	30.5	9.3	Tetrachloro-m-xylene
13.895	-0.006	195638	14.123	-0.005	205889	37.0	35.3	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	488702	9.2
Hexabromobiphenyl	798898	576366	-27.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	324244	30.2
Hexabromobiphenyl	362541	410798	13.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.413	-0.010	5625	26.8	1	8.312	-0.008	35223	265.9
Aroclor-1248	2	8.569	-0.029	6484	24.2	2	8.714	-0.011	5806	41.7
Aroclor-1248	3	8.999	-0.018	45505	94.3	3	9.151	-0.020	4202	24.8
Aroclor-1248	4	9.302	-0.008	23594	99.8	4	9.543	-0.050	8908	44.8
		Total Col1Ave (4 peaks):			61.3		Total Col2Ave (4 peaks):			94.3 RPD = 42*
		Corrected Ave (3 peaks):			48.4		Corrected Ave (3 peaks):			37.1 RPD = 26
										110.8
Aroclor-1254	1	9.302	-0.012	23594	54.8	1	9.452	-0.008	16605	79.4
Aroclor-1254	2	9.374	-0.019	10846	64.8	2	9.968	-0.010	4251	25.3
Aroclor-1254	3	9.667	-0.019	7897	29.1	3	10.115	-0.014	14918	41.3
Aroclor-1254	4	9.800	-0.020	30882	58.3	4	10.371	-0.007	38611	103.2
Aroclor-1254	5	10.123	-0.052	45758	126.0	5	10.565	-0.010	20164	111.7
		Total Col1Ave (5 peaks):			66.6		Total Col2Ave (5 peaks):			72.2 RPD = 8
		Corrected Ave (4 peaks):			51.8		Corrected Ave (4 peaks):			62.3 RPD = 19
Aroclor-1260	1	11.046	-0.009	22447	107.0	1	11.653	-0.007	11318	52.2
Aroclor-1260	2	11.360	-0.011	9990	46.0	2	11.914	-0.009	24068	44.2
Aroclor-1260	3	11.730	-0.015	29233	51.3	3	12.433	-0.009	13299	91.8
Aroclor-1260	4	12.131	-0.017	13799	47.5	4	12.498	-0.008	18775	51.8
Aroclor-1260	5	12.246	-0.009	10997	92.5	NS	---			----
		Total Col1Ave (5 peaks):			68.9		Total Col2Ave (4 peaks):			60.0 RPD = 14
		Corrected Ave (4 peaks):			59.3		Corrected Ave (3 peaks):			49.4 RPD = 18
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.931 - 13.802) = 722981 Col1 Total PCB = 0.2 ppm*

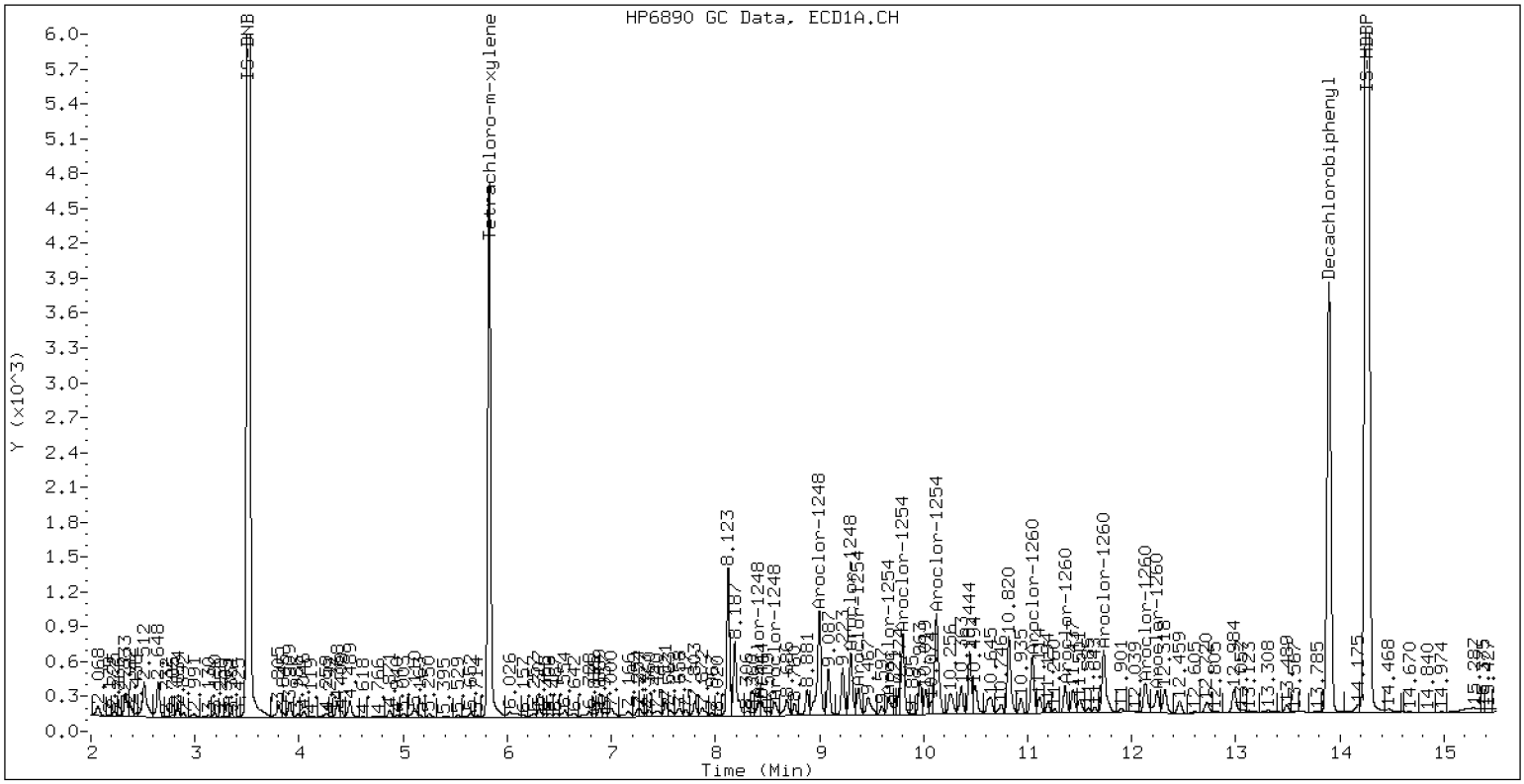
Total PCB Area Col2 (5.807 - 14.028) = 564835 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

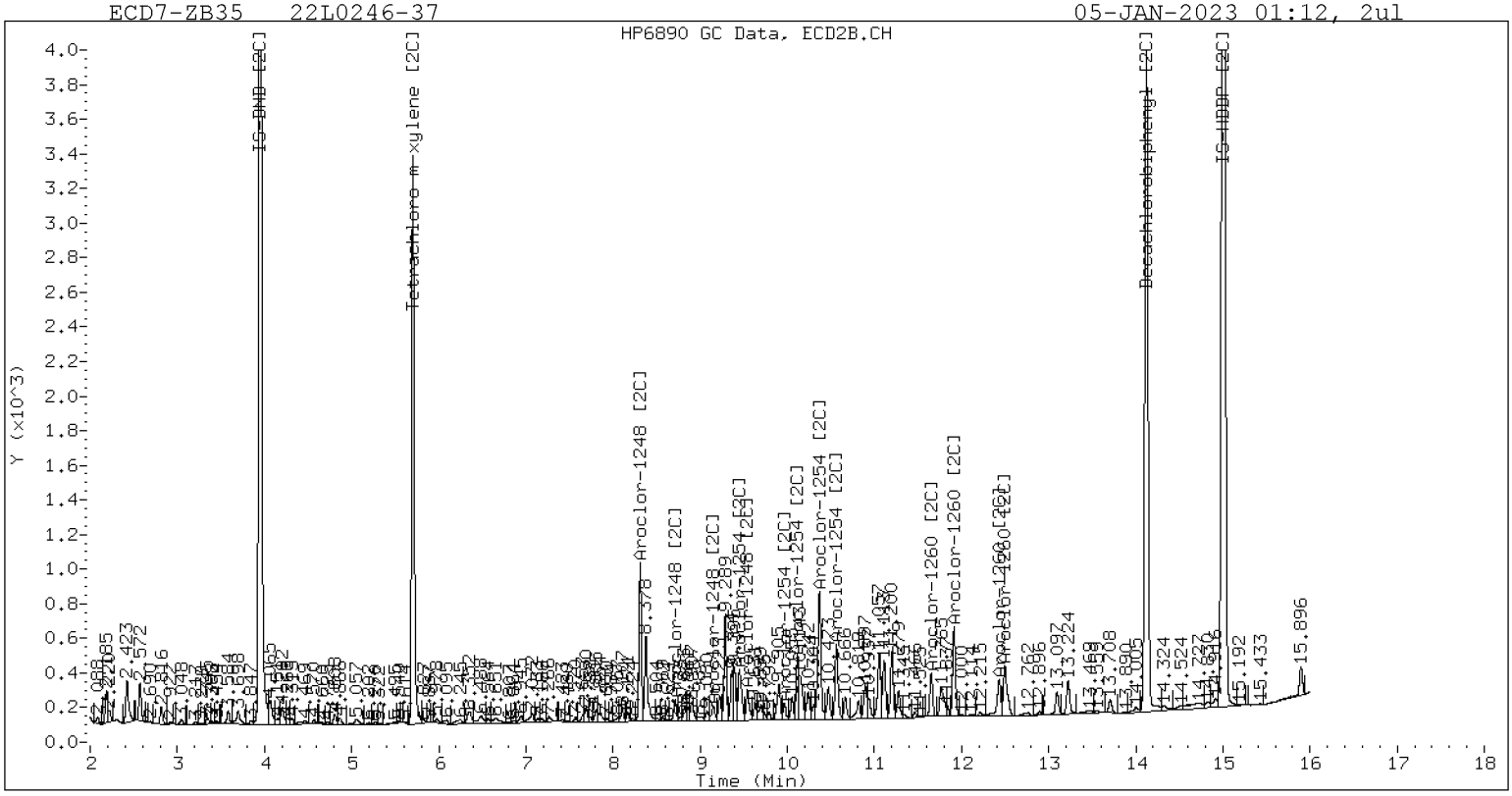
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-37 05-JAN-2023 01:12, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-37 05-JAN-2023 01:12, 2ul

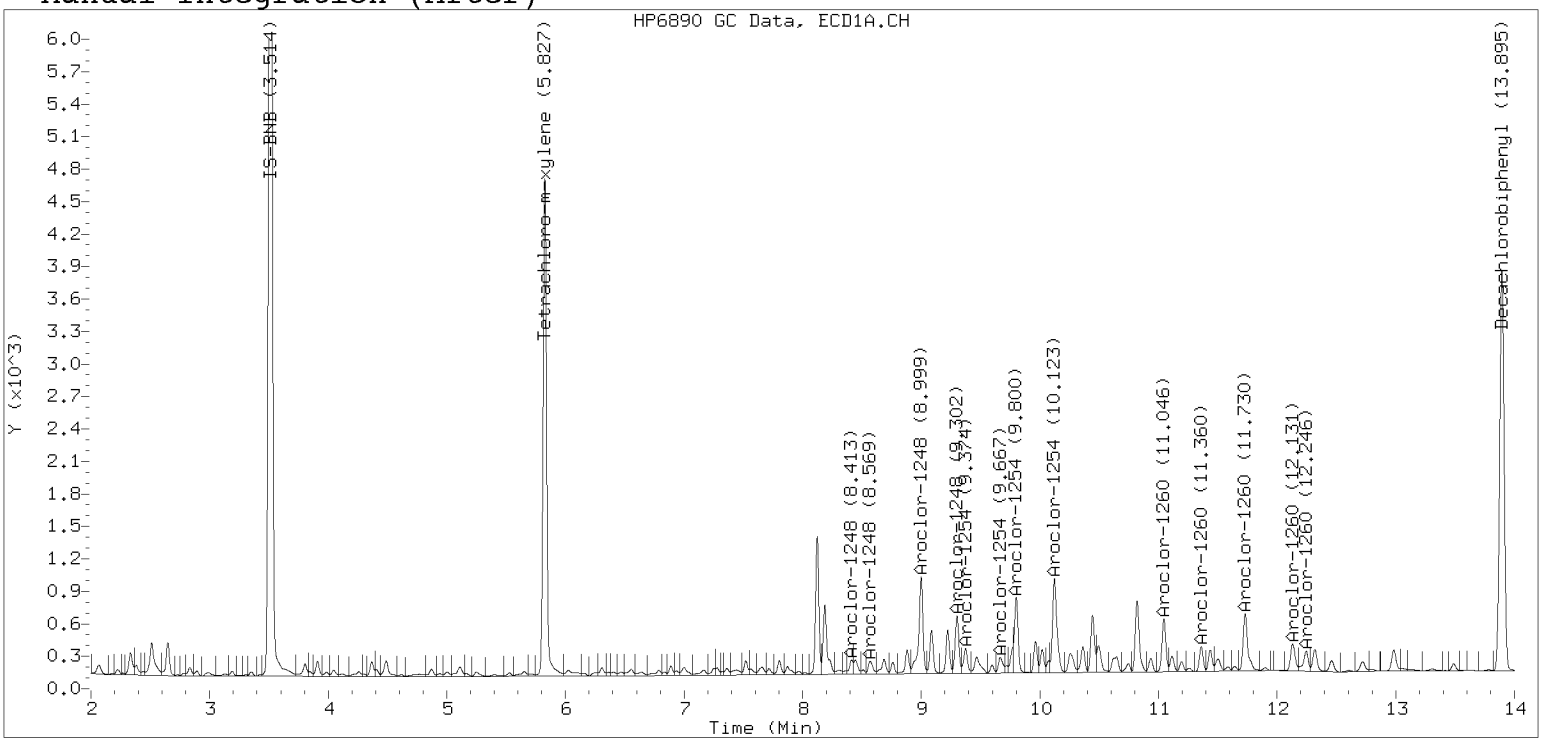


ZB-35 Manual Integration: YES

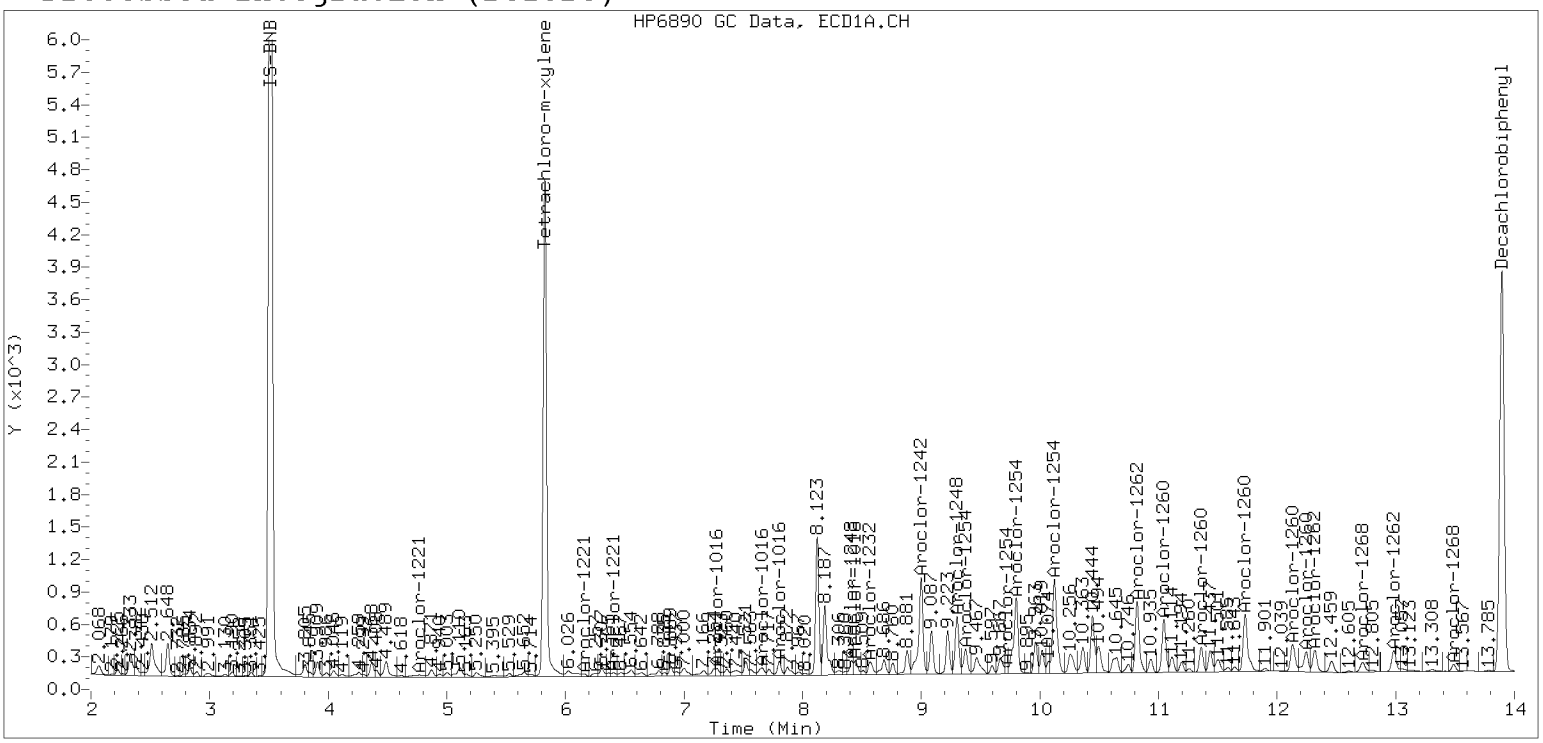
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042346ECD7.D Injection Date: 05-JAN-2023 01:12

Manual Integration (After)



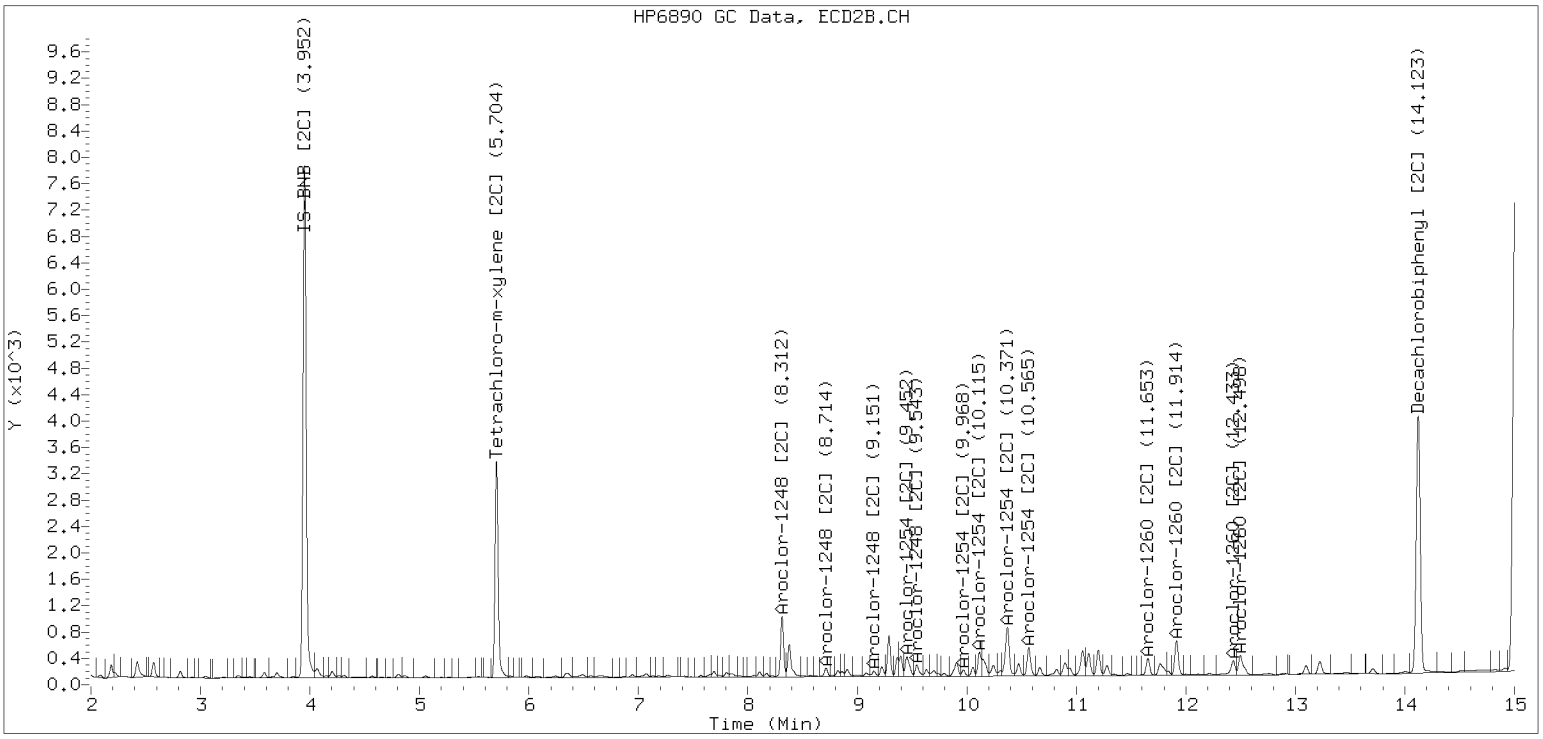
Processed Integration (Before)



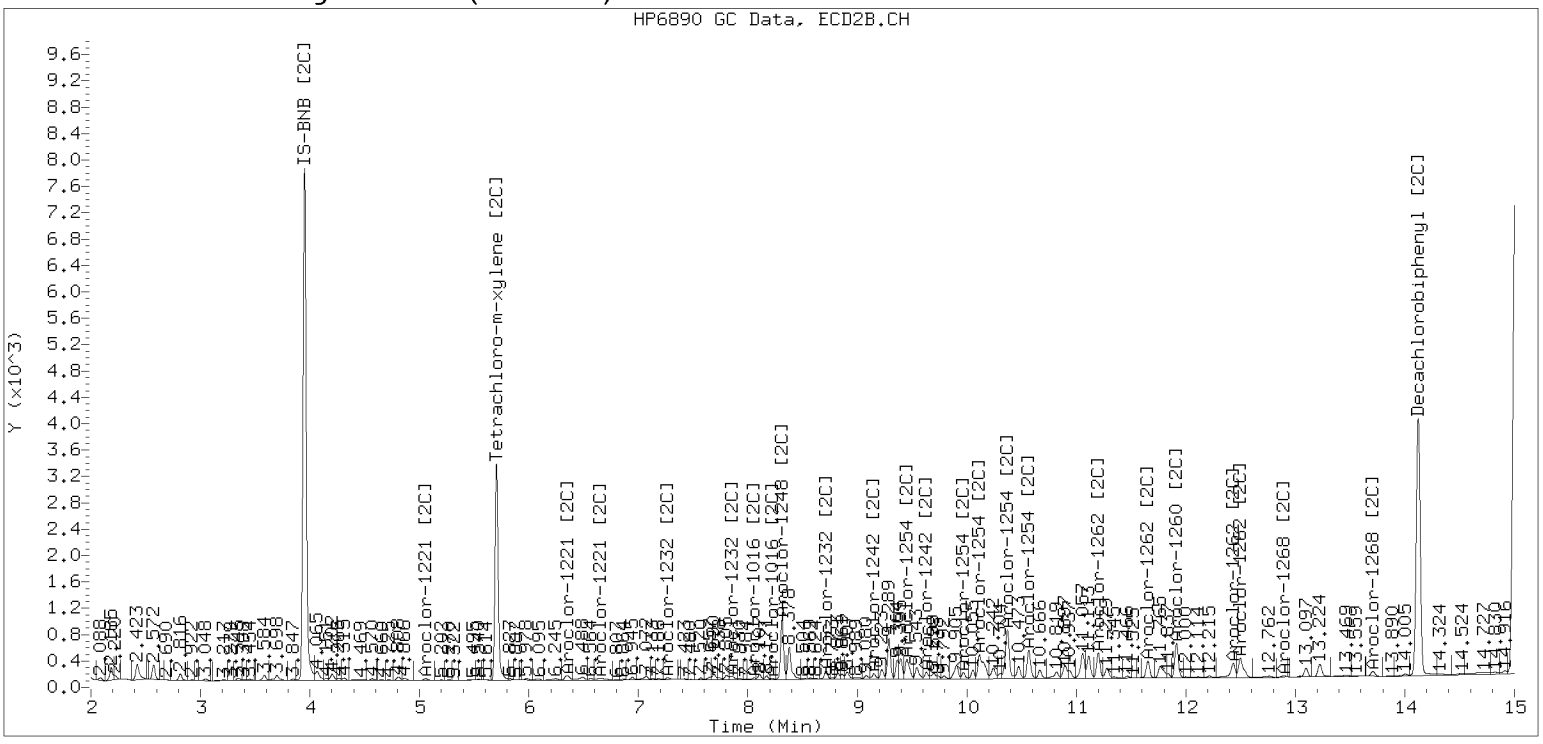
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042346ECD7.D Injection Date: 05-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-38 B	File ID:	01042347ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/05/23 01:33
% Solids:	73.47	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.01 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*8.0018*	*7.67*	*95.9*	*40 - 126*	
Tetrachlorometaxylene	*1*	*8.0018*	*5.79*	*72.3*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042347ECD7.D
Data file 2: /230104.b/230104.b/01042347ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-38
Client ID:
Injection Date: 05-JAN-2023 01:33
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.005	195911	5.702	-0.005	137919	28.9	30.7	6.1	Tetrachloro-m-xylene
13.897	-0.004	232642	14.123	-0.004	225148	38.3	35.3	8.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	477755	6.7
Hexabromobiphenyl	798898	661806	-17.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	327207	31.4
Hexabromobiphenyl	362541	449861	24.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 134938 Col1 Total PCB = 0.0 ppm*

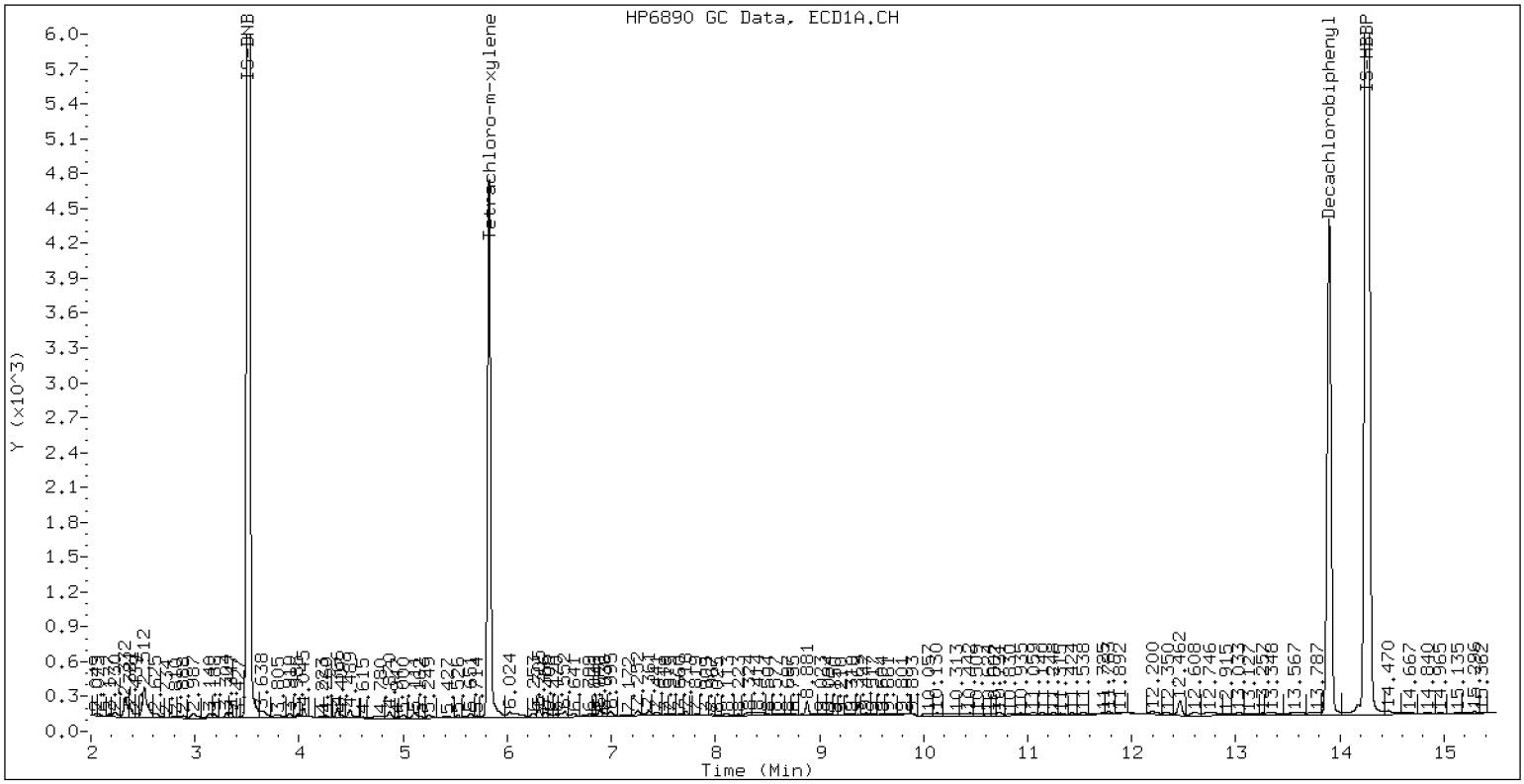
Total PCB Area Col2 (5.807 - 14.028) = 86124 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

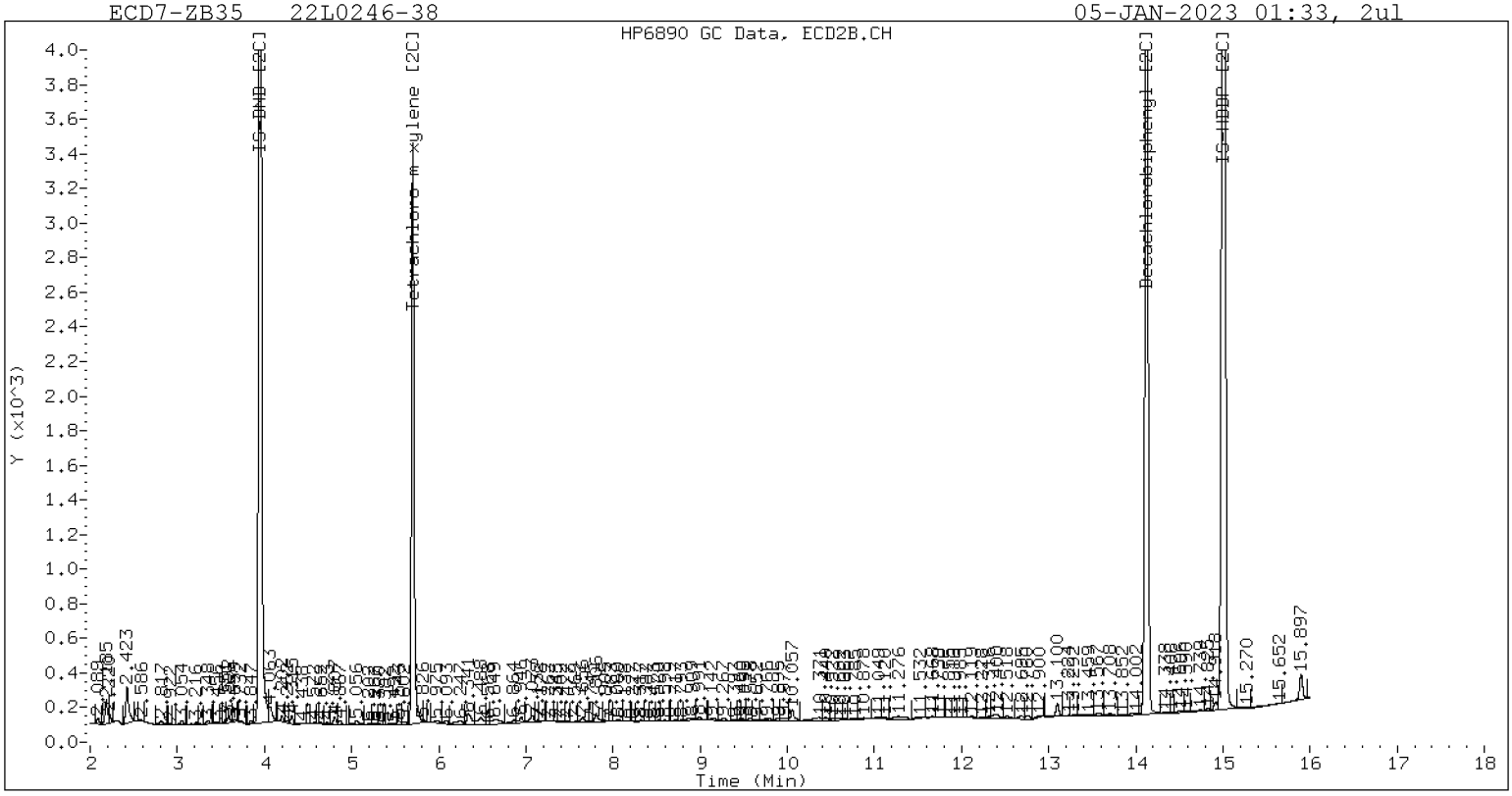
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-38 05-JAN-2023 01:33, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-38 05-JAN-2023 01:33, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-39 B	File ID:	01042348ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/05/23 01:55
% Solids:	69.80	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.97 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9725*	*7.38*	*92.5*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9725*	*5.51*	*69.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042348ECD7.D
Data file 2: /230104.b/230104.b/01042348ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-39
Client ID:
Injection Date: 05-JAN-2023 01:55
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	184414	5.702	-0.005	132725	27.6	30.3	9.2	Tetrachloro-m-xylene
13.895	-0.006	196021	14.123	-0.005	201295	37.0	33.1	11.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	470724	5.2
Hexabromobiphenyl	798898	577833	-27.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319364	28.2
Hexabromobiphenyl	362541	428965	18.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 159504 Col1 Total PCB = 0.0 ppm*

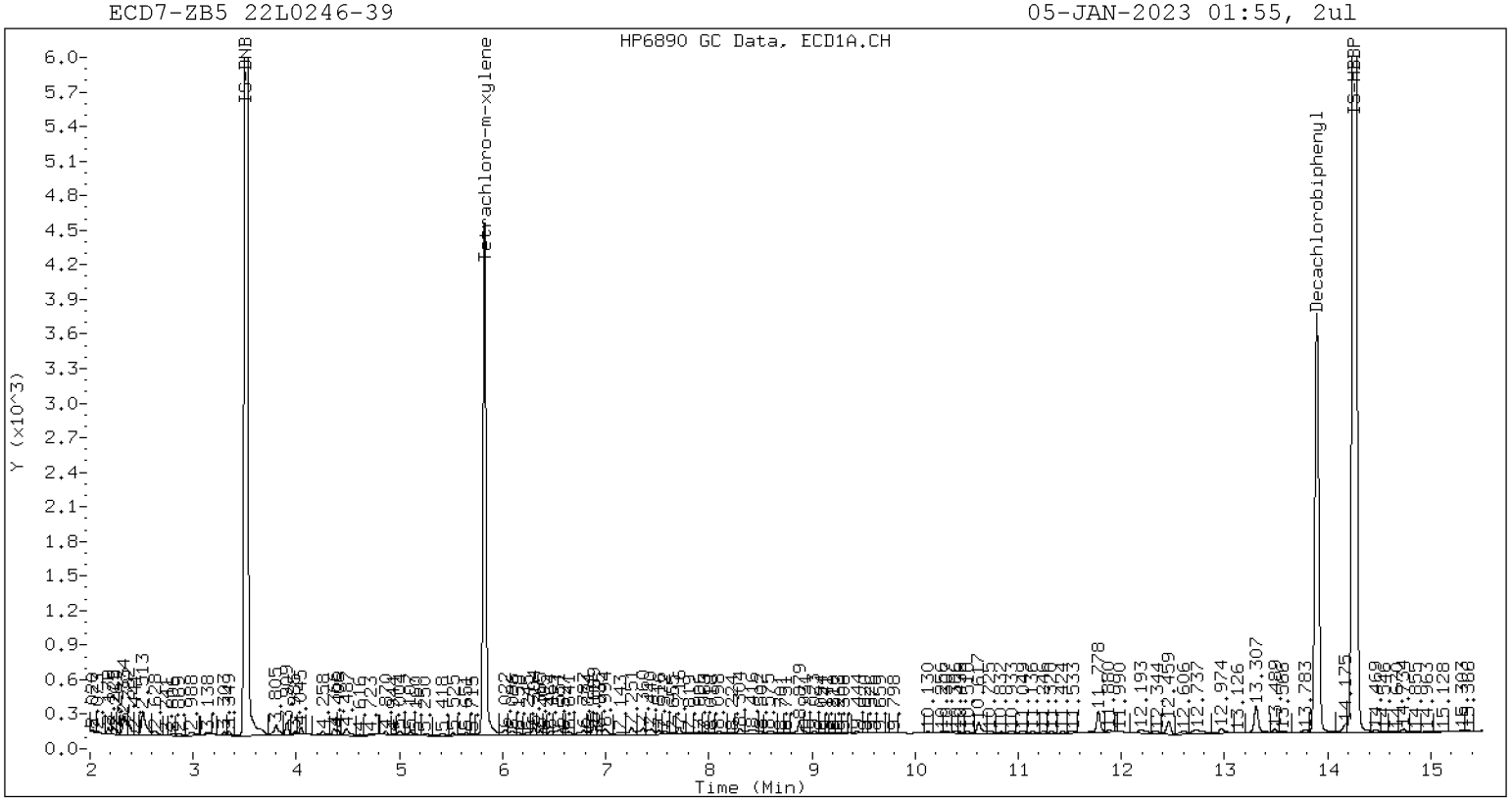
Total PCB Area Col2 (5.807 - 14.028) = 101522 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

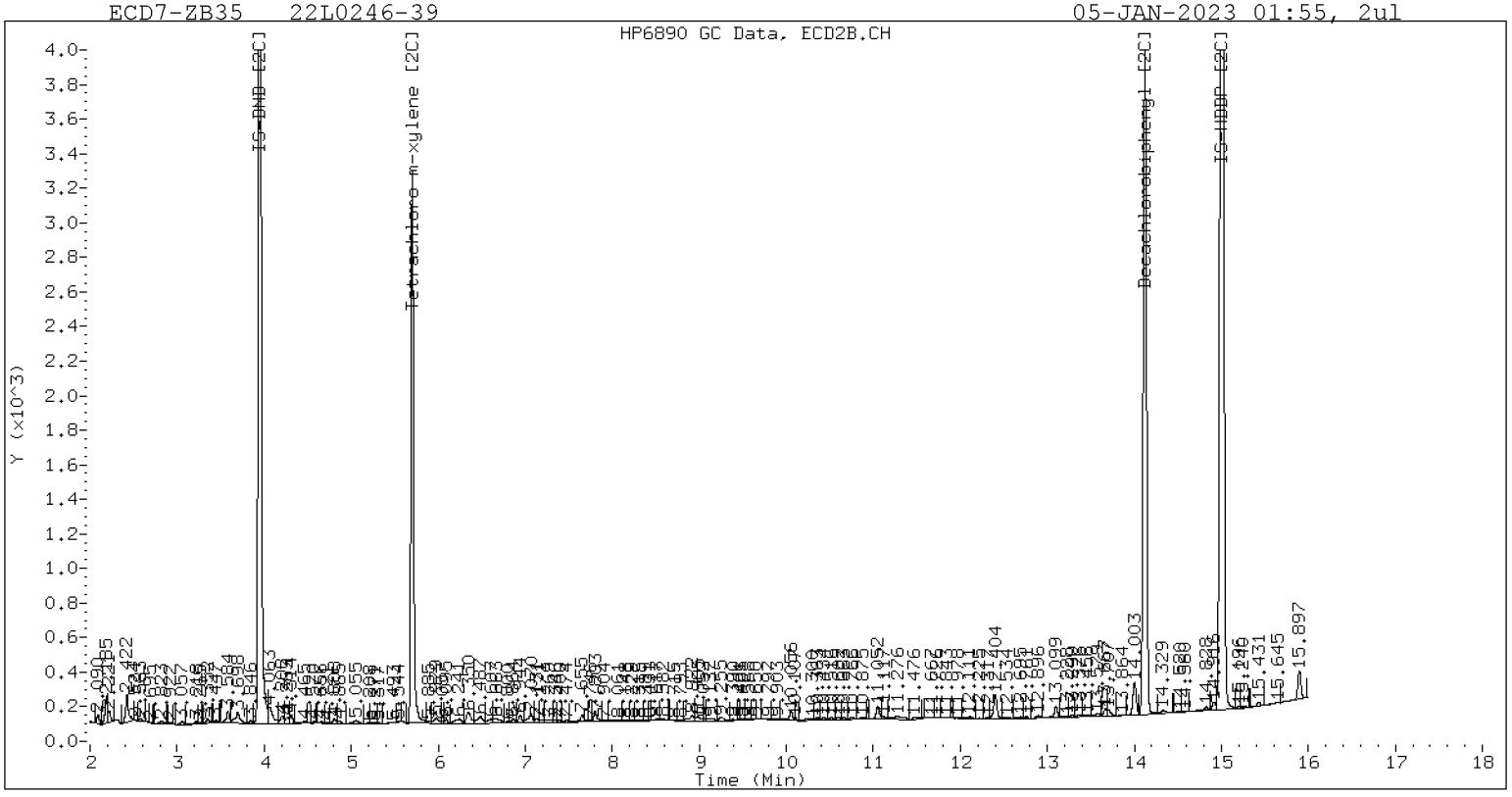
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-39 05-JAN-2023 01:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-39 05-JAN-2023 01:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759H

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-40 B	File ID:	01042349ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/05/23 02:16
% Solids:	63.59	Preparation:	EPA 3546 (Microwave)	Initial/Final:	19.68 g Wet / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9907*	*6.85*	*85.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9907*	*5.12*	*64.1*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042349ECD7.D
Data file 2: /230104.b/230104.b/01042349ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-40
Client ID:
Injection Date: 05-JAN-2023 02:16
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	167935	5.702	-0.005	121555	25.6	28.3	9.9	Tetrachloro-m-xylene
13.894	-0.008	177053	14.122	-0.006	178228	34.3	30.3	12.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	462270	3.3
Hexabromobiphenyl	798898	563328	-29.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	313332	25.8
Hexabromobiphenyl	362541	414069	14.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 112664 Col1 Total PCB = 0.0 ppm*

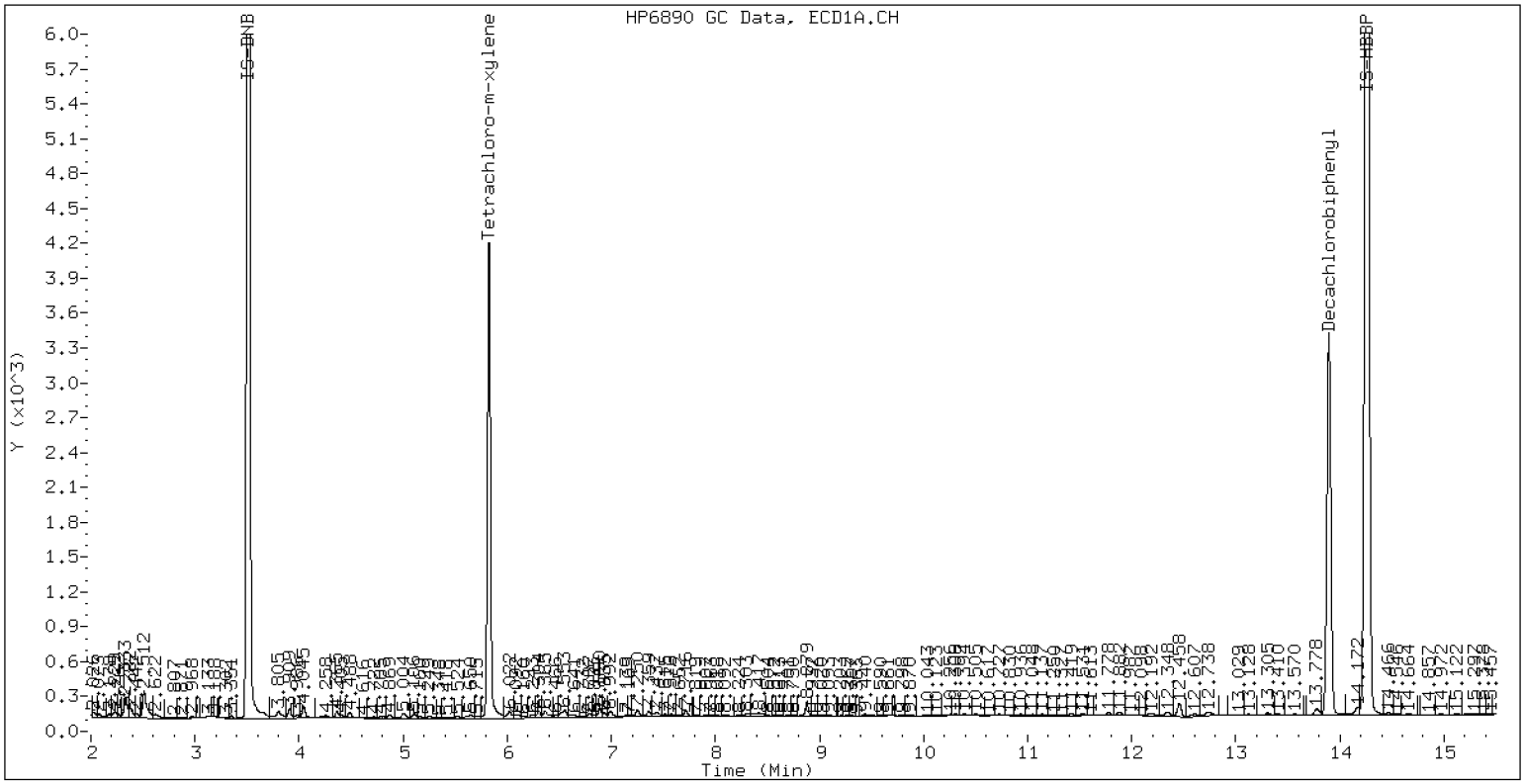
Total PCB Area Col2 (5.807 - 14.028) = 91769 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

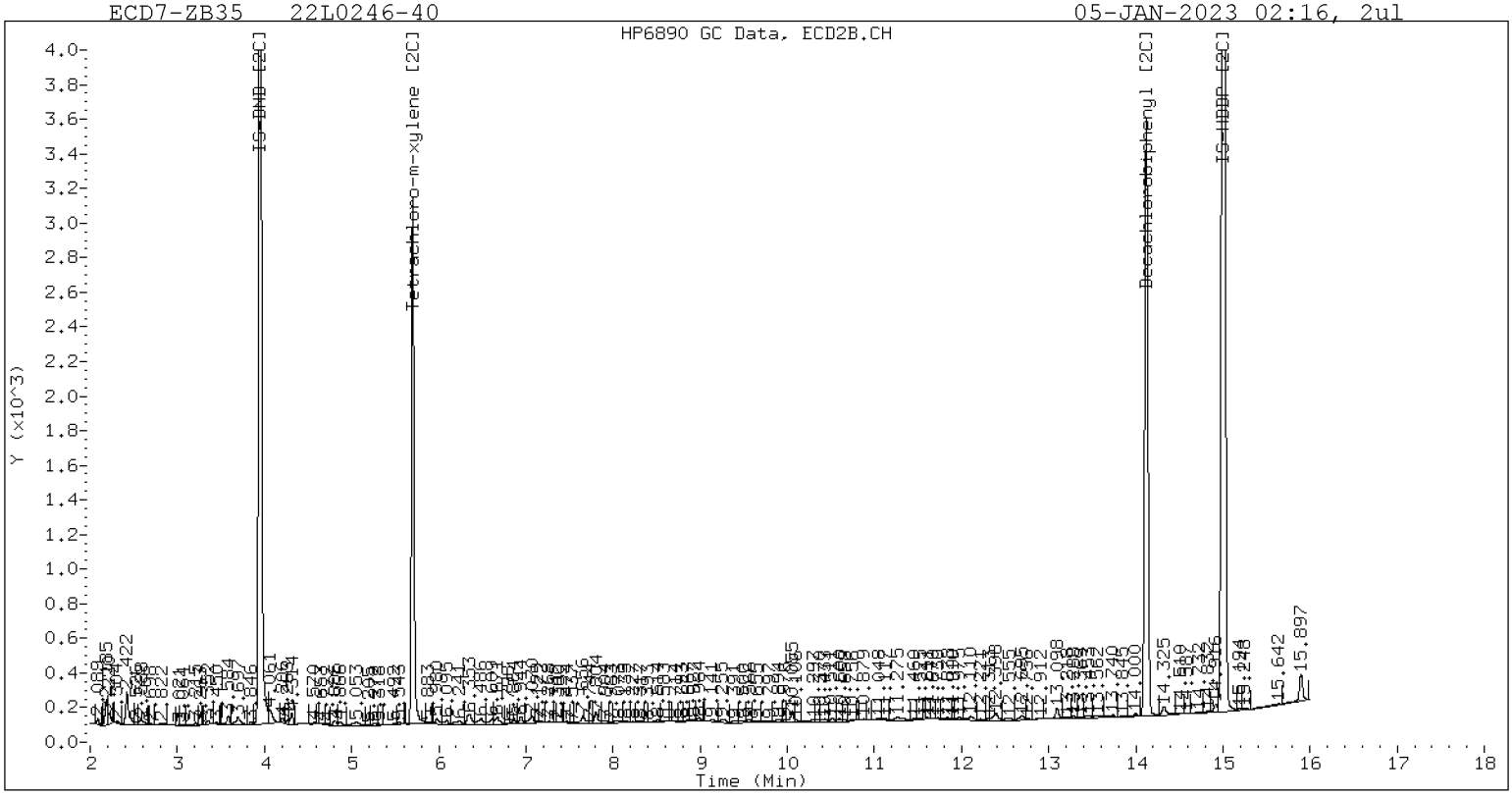
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-40 05-JAN-2023 02:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-40 05-JAN-2023 02:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-SC759B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-41 B	File ID:	01042304ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 10:26
% Solids:	61.04	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.51 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	2	5	59.0	7.8	20.0	D
11097-69-1	Aroclor 1254	2	5	109	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	257	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9877*	*9.73*	*122*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9877*	*7.38*	*92.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9877*	*7.66*	*95.9*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9877*	*7.55*	*94.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042304ECD7.D
Data file 2: /230104.b/230104.b/01042304ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-41RE1
Client ID:
Injection Date: 04-JAN-2023 10:26
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.000	46371	5.707	0.000	31006	7.4	7.6	2.3	Tetrachloro-m-xylene
13.896	-0.005	56542	14.125	-0.003	46220	9.7	7.7	23.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	442740	-1.1
Hexabromobiphenyl	798898	632927	-20.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	298986	20.0
Hexabromobiphenyl	362541	424189	17.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.415	-0.013	11326	59.5	1	8.315	-0.005	9289	76.1
Aroclor-1248	2	8.584	-0.021	9149	37.6	2	8.721	-0.004	6259	48.7
Aroclor-1248	3	9.002	-0.020	30516	69.8	3	9.157	-0.014	9025	57.8
Aroclor-1248	4	9.303	-0.008	38446	179.5	4	9.546	-0.046	9863	53.8
		Total Col1Ave (4 peaks):			86.6	Total Col2Ave (4 peaks):				59.1 RPD = 38
		Corrected Ave (3 peaks):			55.6	Corrected Ave (3 peaks):				53.4 RPD = 4
Aroclor-1254	1	9.303	-0.018	38446	98.6	1	9.453	-0.007	22398	116.2
Aroclor-1254	2	9.379	-0.023	16459	108.6	2	9.971	-0.007	10983	70.9
Aroclor-1254	3	9.671	-0.024	21527	87.4	3	10.121	-0.008	27983	84.0
Aroclor-1254	4	9.803	-0.028	52661	109.7	4	10.371	-0.006	56911	165.0
Aroclor-1254	5	10.126	-0.063	80592	245.0	5	10.567	-0.007	57020	342.7
		Total Col1Ave (5 peaks):			129.9	Total Col2Ave (5 peaks):				155.7 RPD = 18
		Corrected Ave (4 peaks):			101.1	Corrected Ave (4 peaks):				109.0 RPD = 8
Aroclor-1260	1	11.047	-0.009	58766	255.1	1	11.656	-0.004	44864	200.4
Aroclor-1260	2	11.363	-0.009	52595	220.7	2	11.917	-0.007	137650	245.0
Aroclor-1260	3	11.733	-0.013	173028	276.4	3	12.435	-0.007	48696	325.5
Aroclor-1260	4	12.134	-0.016	81829	256.6	4	12.501	-0.006	97307	259.8
Aroclor-1260	5	12.246	-0.008	45401	347.8	NS	---			----
		Total Col1Ave (5 peaks):			271.3	Total Col2Ave (4 peaks):				257.7 RPD = 5
		Corrected Ave (4 peaks):			252.2	Corrected Ave (3 peaks):				235.1 RPD = 7
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 1491903 Col1 Total PCB = 0.4 ppm*

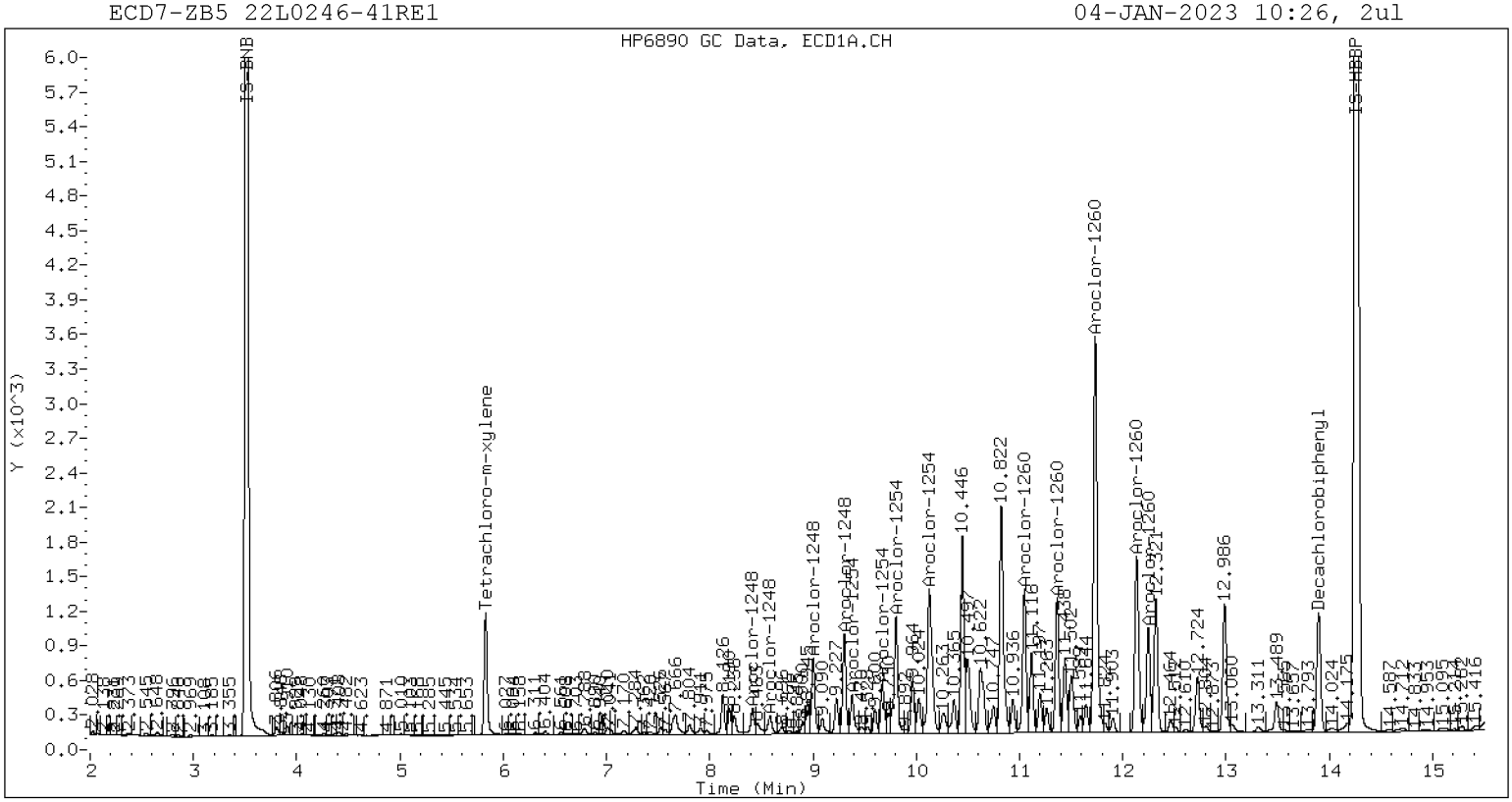
Total PCB Area Col2 (5.807 - 14.028) = 1079320 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

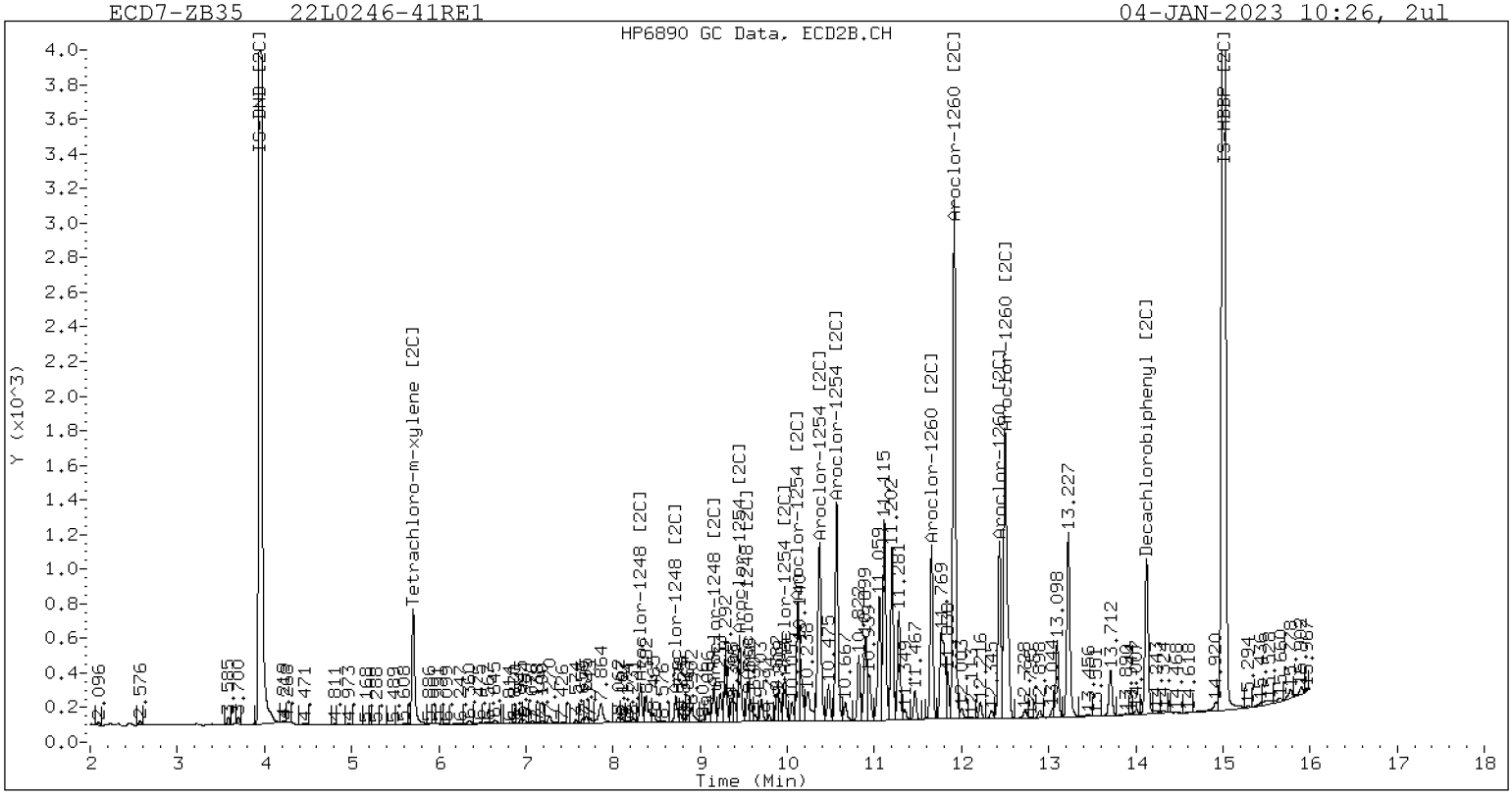
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-41RE1 04-JAN-2023 10:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-41RE1 04-JAN-2023 10:26, 2ul

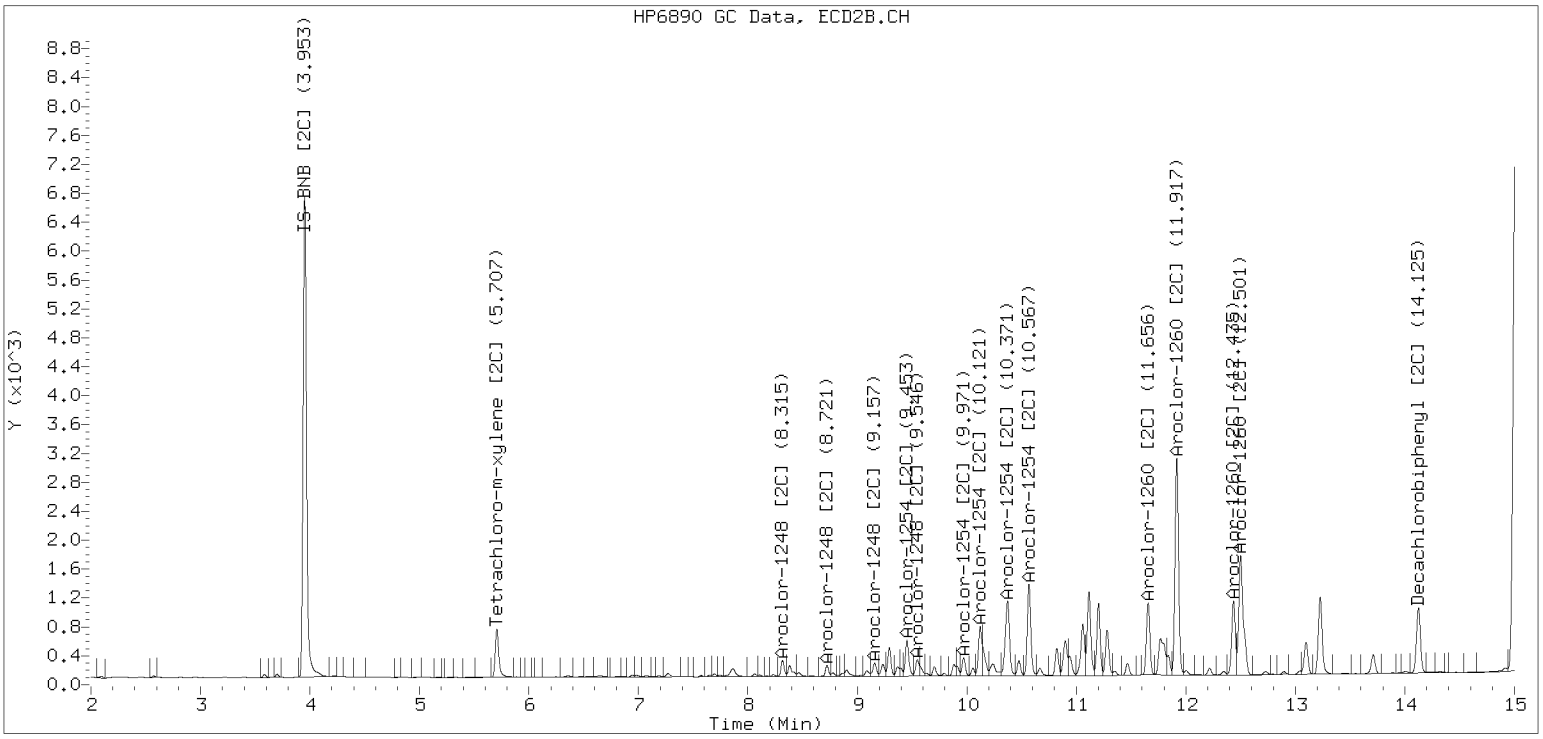


ZB-35 Manual Integration: YES

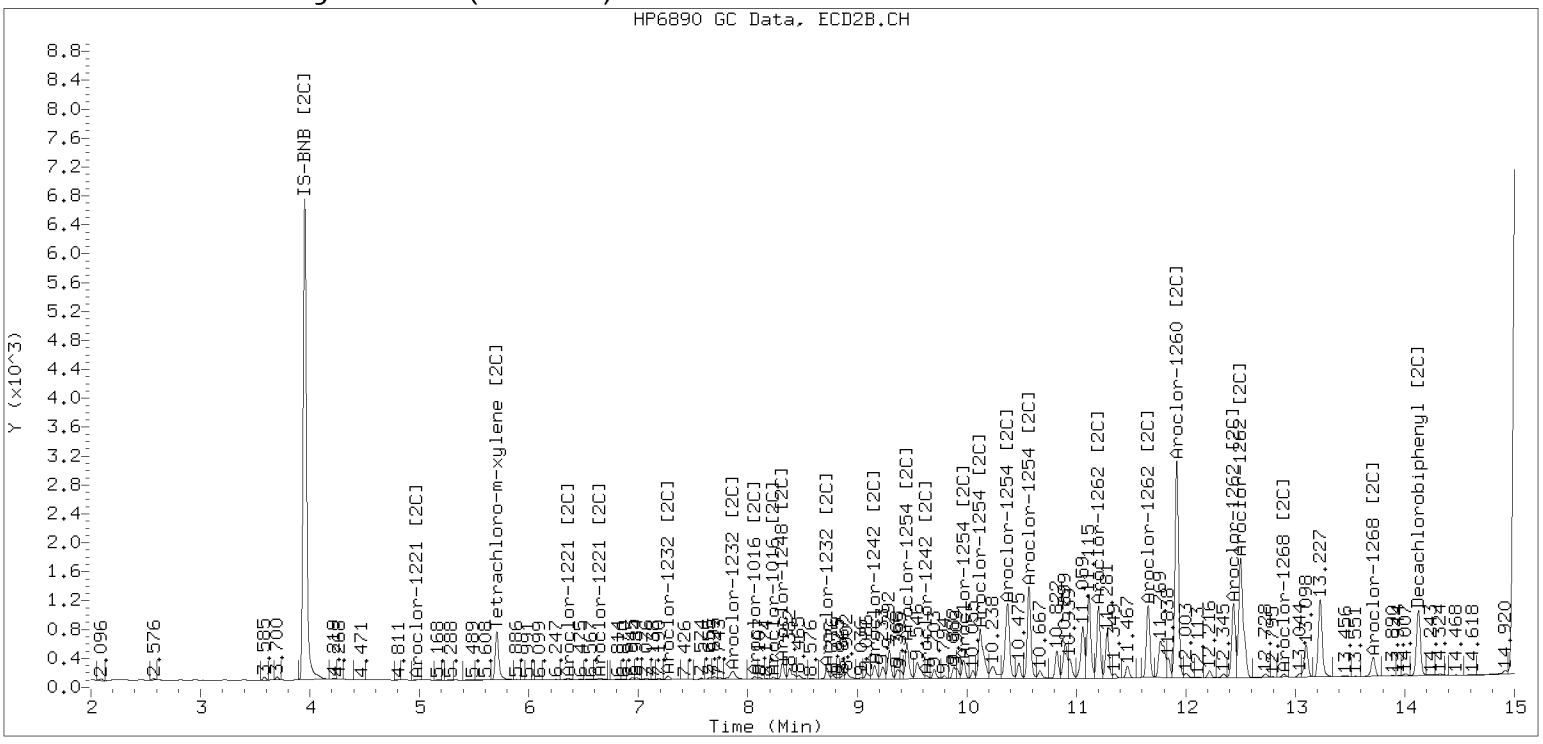
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042304ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809A

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-42 C	File ID:	01042305ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 10:47
% Solids:	54.30	Preparation:	EPA 3546 (Microwave)	Initial/Final:	23.03 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	10	40.0	15.6	40.0	U
11104-28-2	Aroclor 1221	1	10	40.0	15.6	40.0	U
11141-16-5	Aroclor 1232	1	10	40.0	15.6	40.0	U
53469-21-9	Aroclor 1242	1	10	40.0	15.6	40.0	U
12672-29-6	Aroclor 1248	1	10	966	15.6	40.0	D
11097-69-1	Aroclor 1254	2	10	1410	15.6	40.0	D
11096-82-5	Aroclor 1260	2	10	481	5.9	40.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9966*	*9.62*	*120*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9966*	*5.25*	*65.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9966*	*8.15*	*102*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9966*	*5.97*	*74.7*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042305ECD7.D
Data file 2: /230104.b/230104.b/01042305ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-42RE1
Client ID:
Injection Date: 04-JAN-2023 10:47
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 10.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	15865	5.702	-0.004	11712	2.6	3.0	12.9	Tetrachloro-m-xylene
13.895	-0.007	24340	14.123	-0.004	21888	4.8	4.1	16.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	426231	-4.8
Hexabromobiphenyl	798898	552010	-30.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	285980	14.8
Hexabromobiphenyl	362541	377992	4.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1248	1	8.411	-0.016	68733	375.1	1	8.313	-0.008	99218	849.3
Aroclor-1248	2	8.578	-0.026	36966	158.0	2	8.717	-0.008	55997	455.7
Aroclor-1248	3	8.998	-0.024	185743	441.3	3	9.152	-0.019	38953	260.6
Aroclor-1248	4	9.299	-0.013	197731	958.8	4	9.543	-0.050	75208	428.6
		Total Col1Ave (4 peaks):			483.3		Total Col2Ave (4 peaks):			498.6 RPD = 3
		Corrected Ave (3 peaks):			324.8		Corrected Ave (3 peaks):			381.7 RPD = 16
Aroclor-1254	1	9.299	-0.022	197731	526.9	1	9.450	-0.010	109988	596.5
Aroclor-1254	2	9.374	-0.028	92010	630.4	2	9.969	-0.009	68202	460.1
Aroclor-1254	3	9.666	-0.028	115957	489.2	3	10.118	-0.011	276448	867.6
Aroclor-1254	4	9.800	-0.030	352111	762.1	4	10.359	-0.018	255954	775.6
Aroclor-1254	5	10.141	-0.048	193745	611.7	5	10.566	-0.009	133352	837.8
		Total Col1Ave (5 peaks):			604.1		Total Col2Ave (5 peaks):			707.5 RPD = 16
		Corrected Ave (4 peaks):			564.6		Corrected Ave (4 peaks):			667.5 RPD = 17
Aroclor-1260	1	11.044	-0.011	37796	188.1	1	11.655	-0.006	83474	418.4
Aroclor-1260	2	11.361	-0.011	34421	165.6	2	11.916	-0.008	87238	174.2
Aroclor-1260	3	11.730	-0.016	94496	173.1	3	12.435	-0.007	23692	177.7
Aroclor-1260	4	12.131	-0.019	67646	243.3	4	12.498	-0.009	63857	191.3
Aroclor-1260	5	12.246	-0.009	20132	176.9	NS	---			----
		Total Col1Ave (5 peaks):			189.4		Total Col2Ave (4 peaks):			240.4 RPD = 24
		Corrected Ave (4 peaks):			175.9		Corrected Ave (3 peaks):			181.1 RPD = 3
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks			

Total PCB Area Col1 (5.930 - 13.802) = 3756237 Col1 Total PCB = 0.9 ppm*

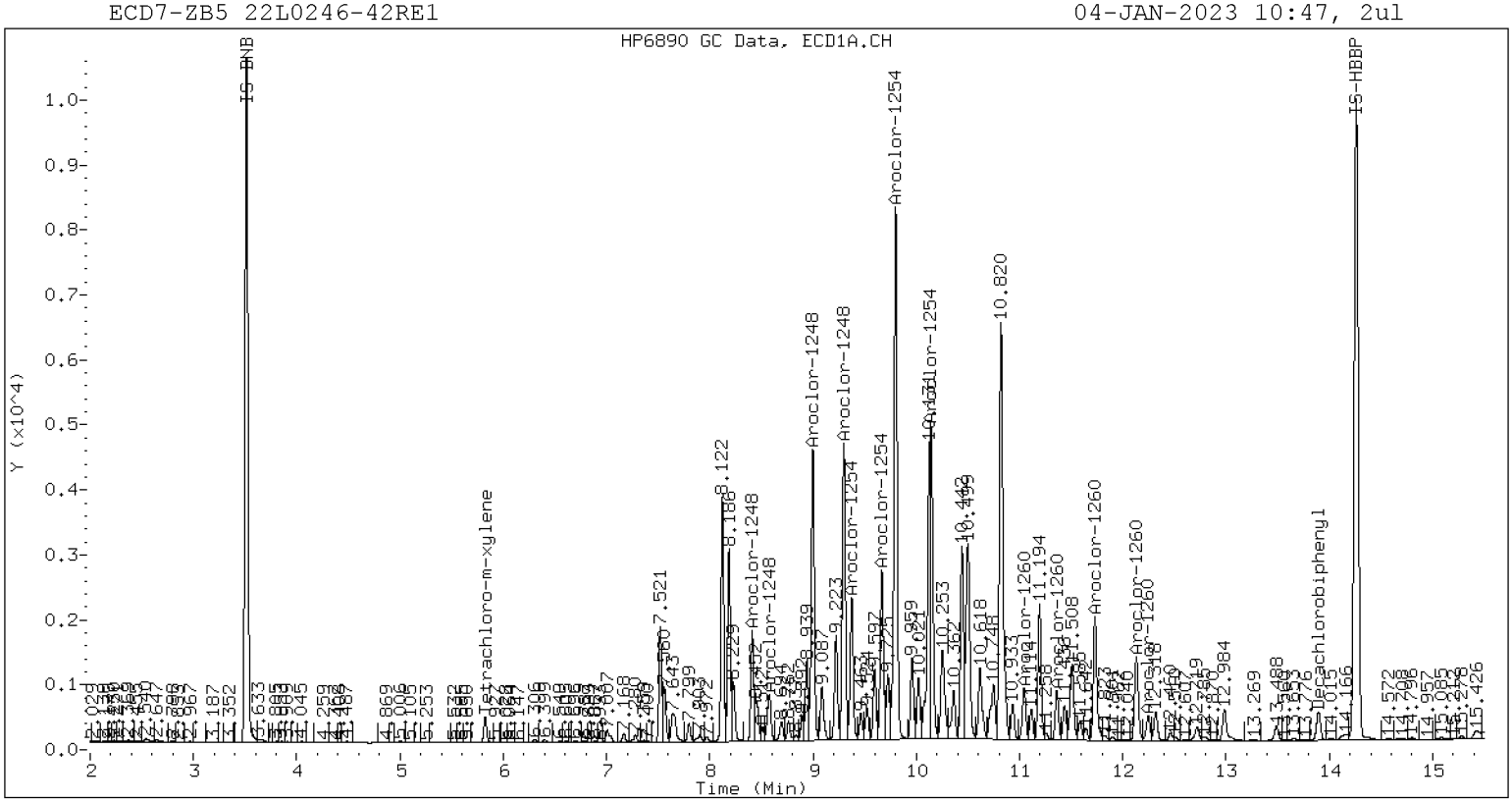
Total PCB Area Col2 (5.807 - 14.028) = 2844327 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

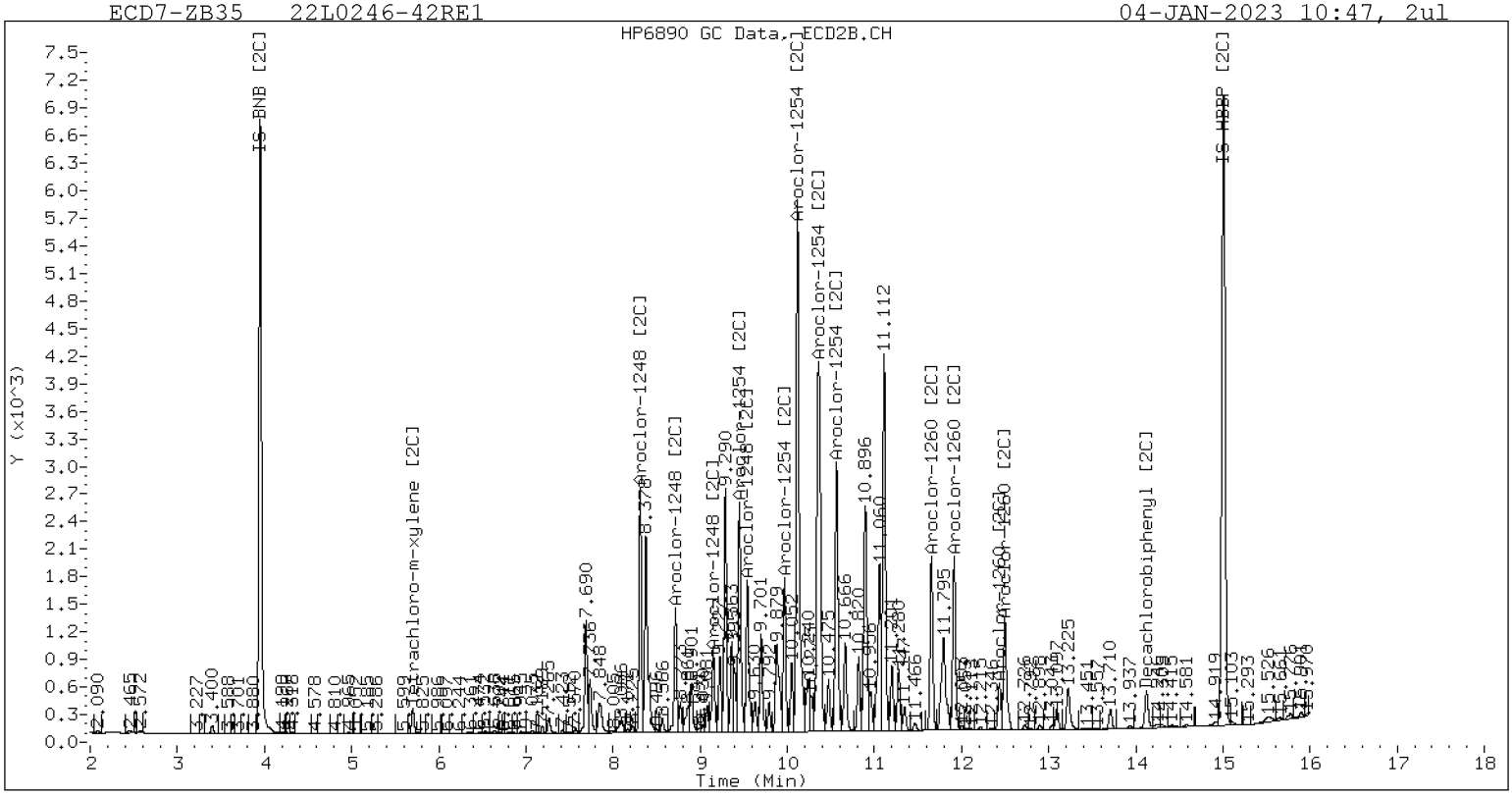
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-42RE1 04-JAN-2023 10:47, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-42RE1 04-JAN-2023 10:47, 2ul

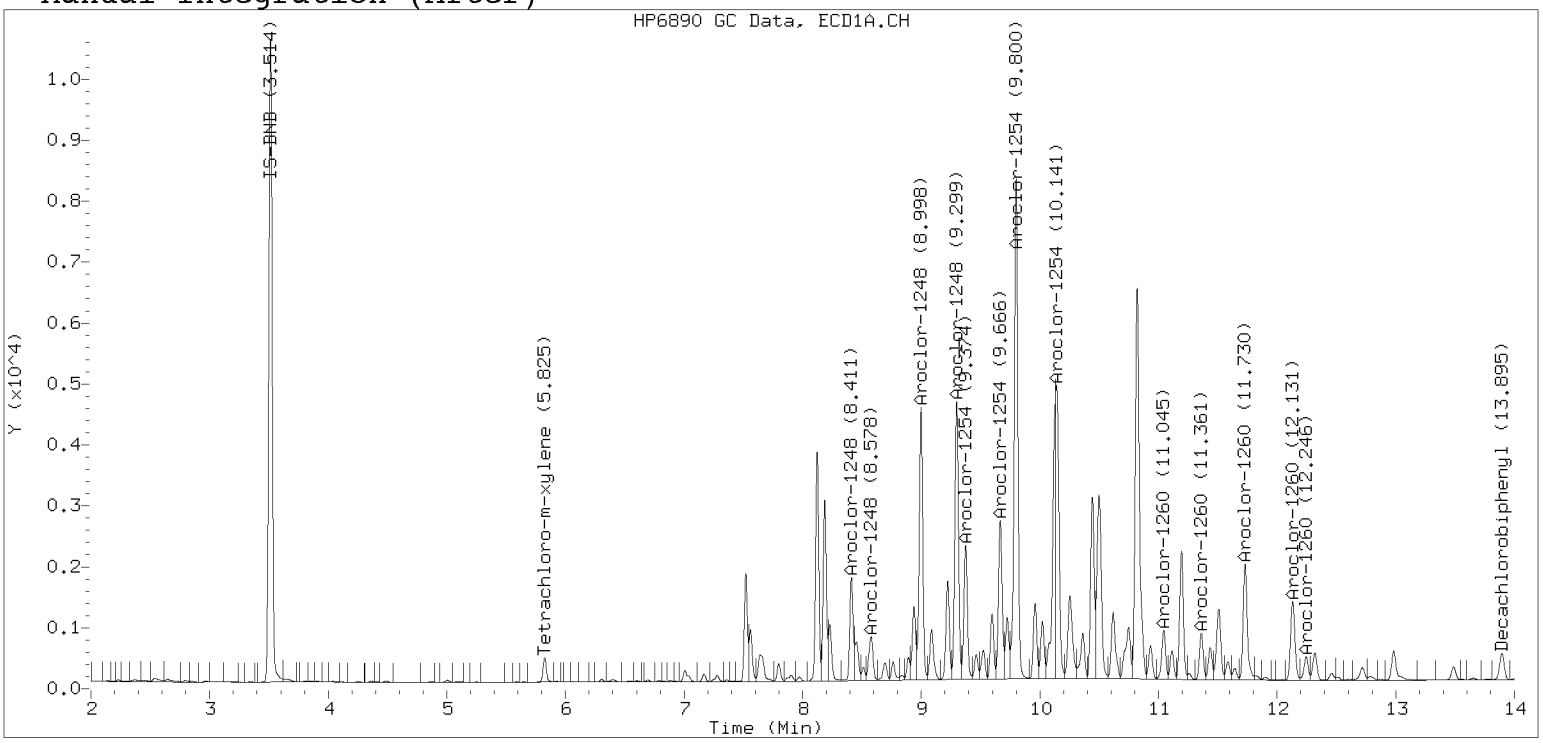


ZB-35 Manual Integration: YES

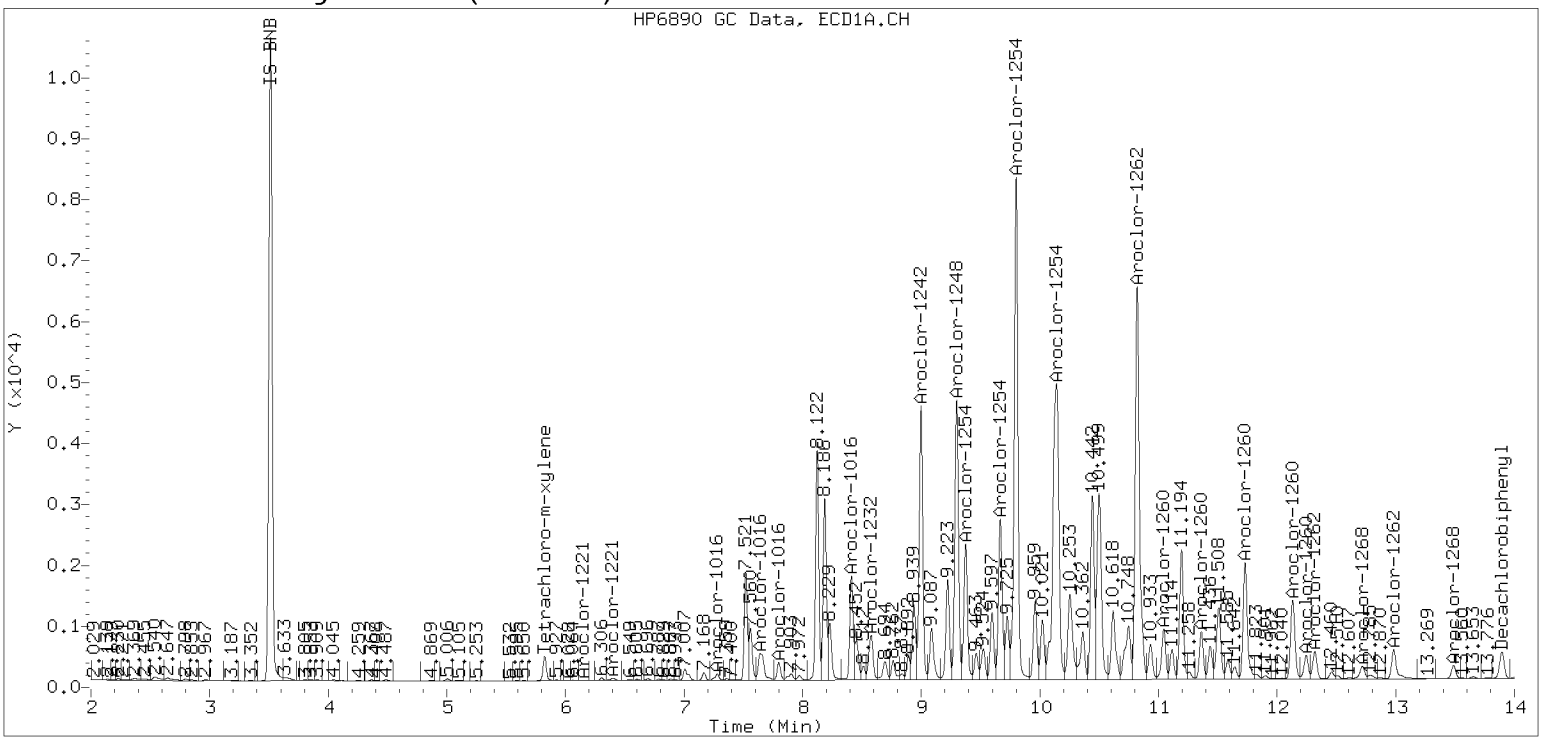
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042305ECD7.D Injection Date: 04-JAN-2023 10:47

Manual Integration (After)



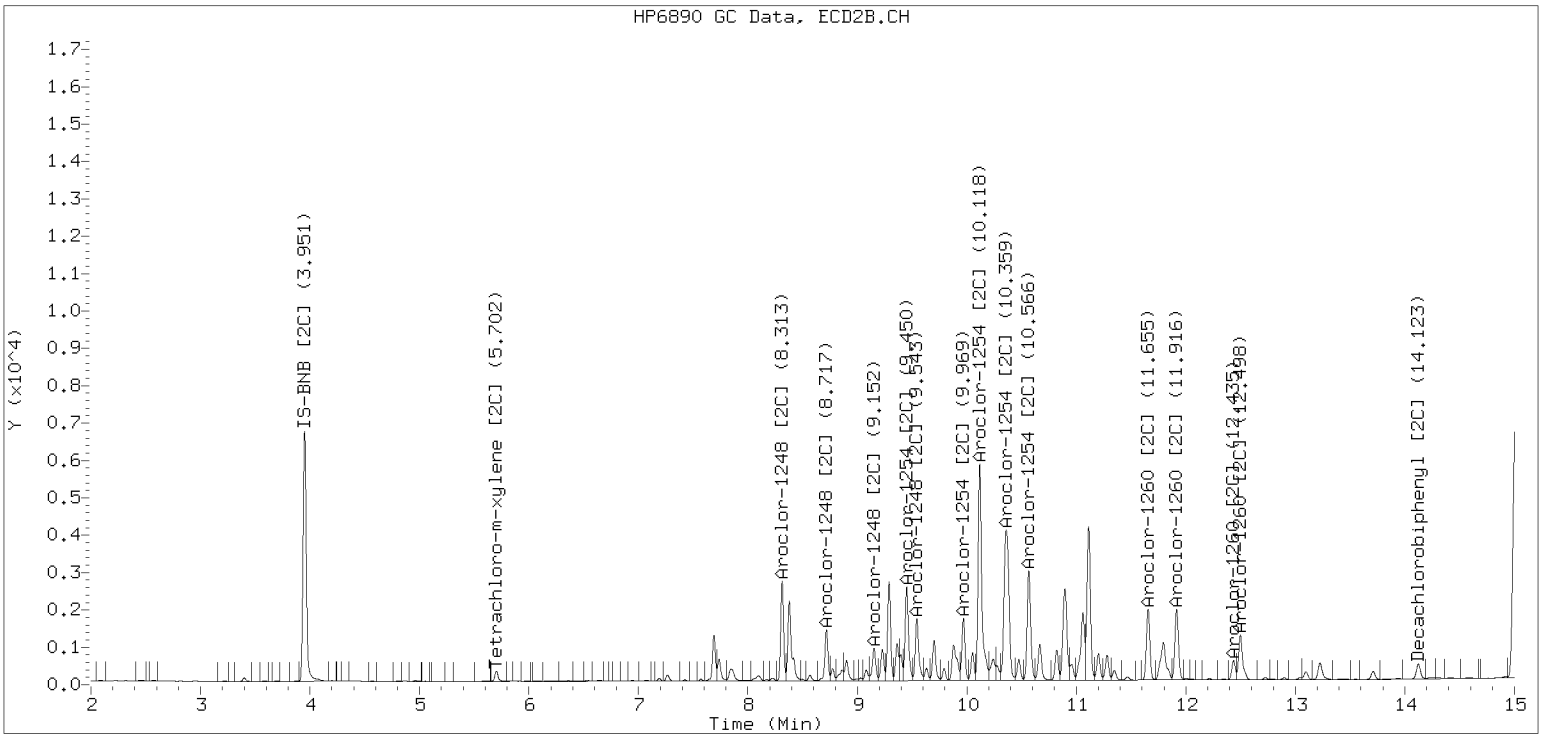
Processed Integration (Before)



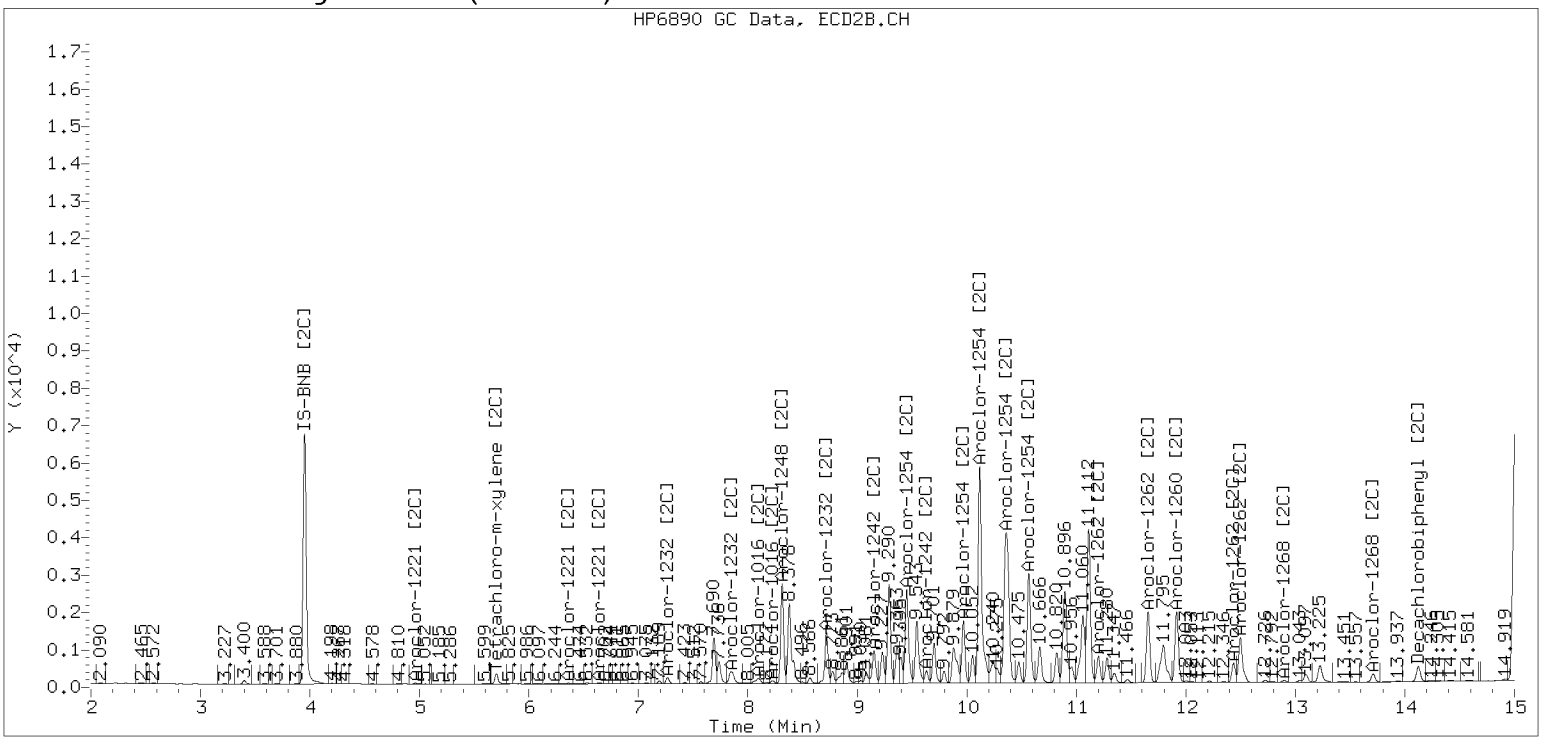
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042305ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809B

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-43 C	File ID:	01042306ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 11:08
% Solids:	61.33	Preparation:	EPA 3546 (Microwave)	Initial/Final:	20.39 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	5	20.0	7.8	20.0	U
11104-28-2	Aroclor 1221	1	5	20.0	7.8	20.0	U
11141-16-5	Aroclor 1232	1	5	20.0	7.8	20.0	U
53469-21-9	Aroclor 1242	1	5	20.0	7.8	20.0	U
12672-29-6	Aroclor 1248	1	5	20.0	7.8	20.0	U
11097-69-1	Aroclor 1254	2	5	59.8	7.8	20.0	D
11096-82-5	Aroclor 1260	2	5	197	2.9	20.0	D

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9967*	*9.54*	*119*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9967*	*6.25*	*78.1*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9967*	*8.13*	*102*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9967*	*6.44*	*80.6*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042306ECD7.D
Data file 2: /230104.b/230104.b/01042306ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-43RE1
Client ID:
Injection Date: 04-JAN-2023 11:08
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 5.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	39597	5.703	-0.004	26232	6.3	6.4	3.1	Tetrachloro-m-xylene
13.895	-0.006	46857	14.123	-0.005	43455	9.5	8.1	15.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447031	-0.1
Hexabromobiphenyl	798898	535698	-32.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	296821	19.2
Hexabromobiphenyl	362541	376130	3.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.301	-0.020	18515	47.0	1	9.451	-0.009	14171	74.0
Aroclor-1254	2	9.373	-0.028	6967	45.5	2	9.969	-0.009	3575	23.2
Aroclor-1254	3	9.679	-0.016	13315	53.6	3	10.147	0.018	27169	82.2
Aroclor-1254	4	9.801	-0.030	28561	58.9	4	10.371	-0.006	47941	140.0
Aroclor-1254	5	10.121	-0.068	62855	189.2	5	10.565	-0.010	36544	221.2
	Total Col1Ave (5 peaks):				78.9	Total Col2Ave (5 peaks):				108.1 RPD = 31
	Corrected Ave (4 peaks):				51.3	Corrected Ave (4 peaks):				79.9 RPD = 44*
										59.8
Aroclor-1260	1	11.045	-0.011	90116	462.1	1	11.654	-0.007	29596	149.1
Aroclor-1260	2	11.360	-0.012	28925	143.4	2	11.916	-0.008	83578	167.8
Aroclor-1260	3	11.730	-0.016	97850	184.7	3	12.434	-0.008	43204	325.7
Aroclor-1260	4	12.131	-0.019	36971	137.0	4	12.499	-0.008	49068	147.7
Aroclor-1260	5	12.244	-0.010	43629	394.9	NS	---			----
	Total Col1Ave (5 peaks):				264.4	Total Col2Ave (4 peaks):				197.6 RPD = 29
	Corrected Ave (4 peaks):				215.0	Corrected Ave (3 peaks):				154.9 RPD = 33
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 1151788 Col1 Total PCB = 0.3 ppm*

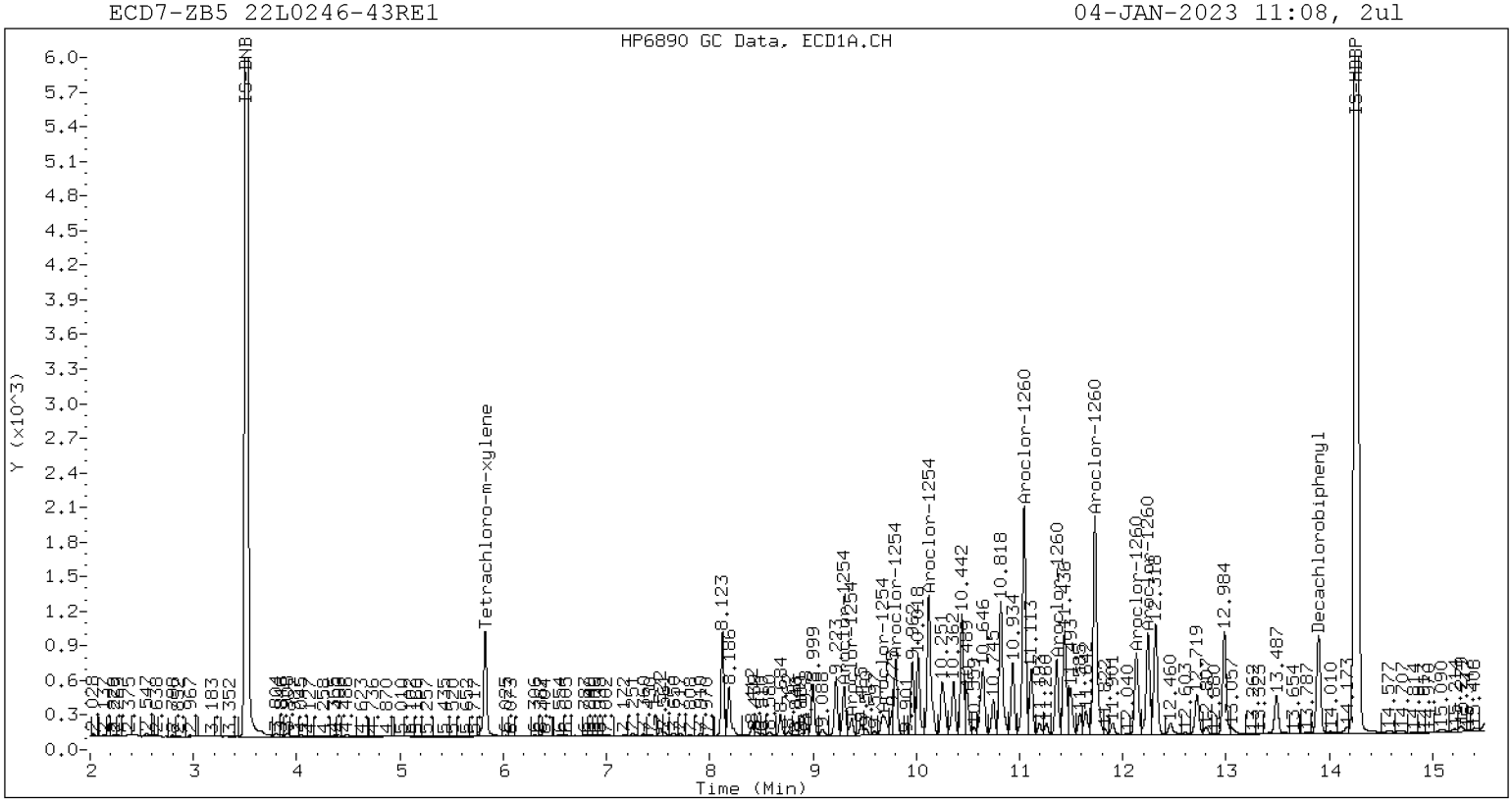
Total PCB Area Col2 (5.807 - 14.028) = 911932 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

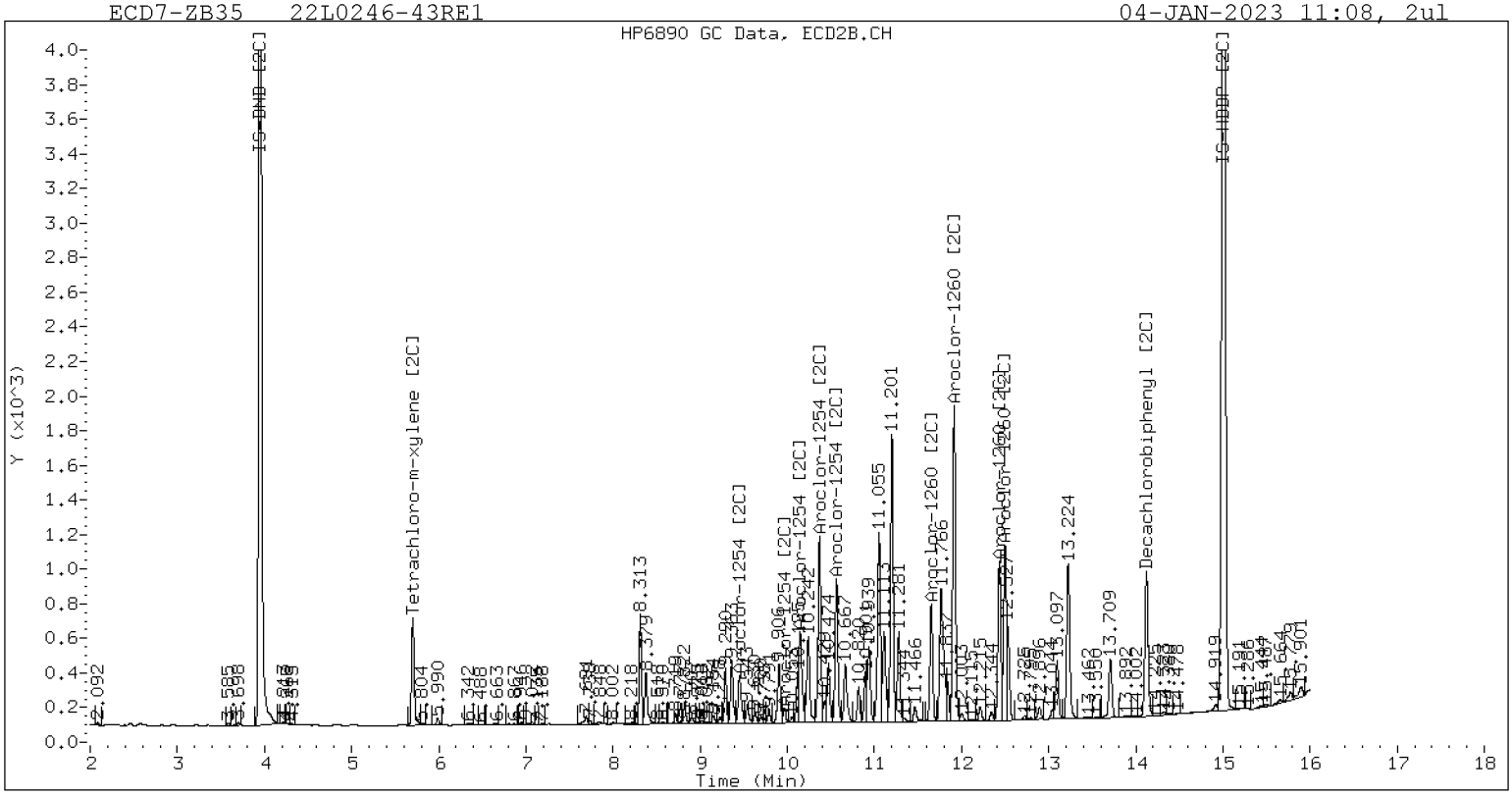
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-43RE1 04-JAN-2023 11:08, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-43RE1 04-JAN-2023 11:08, 2ul

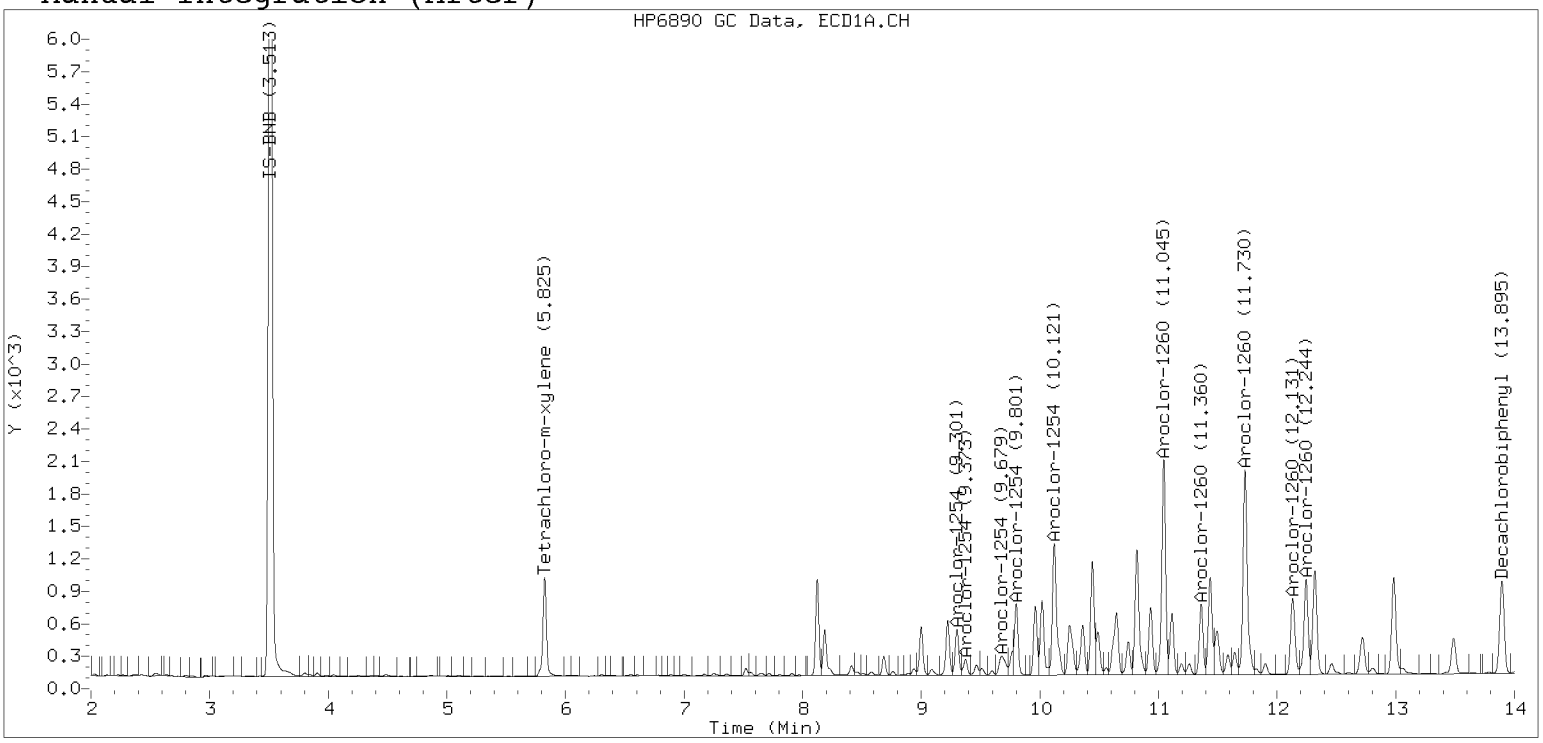


ZB-35 Manual Integration: YES

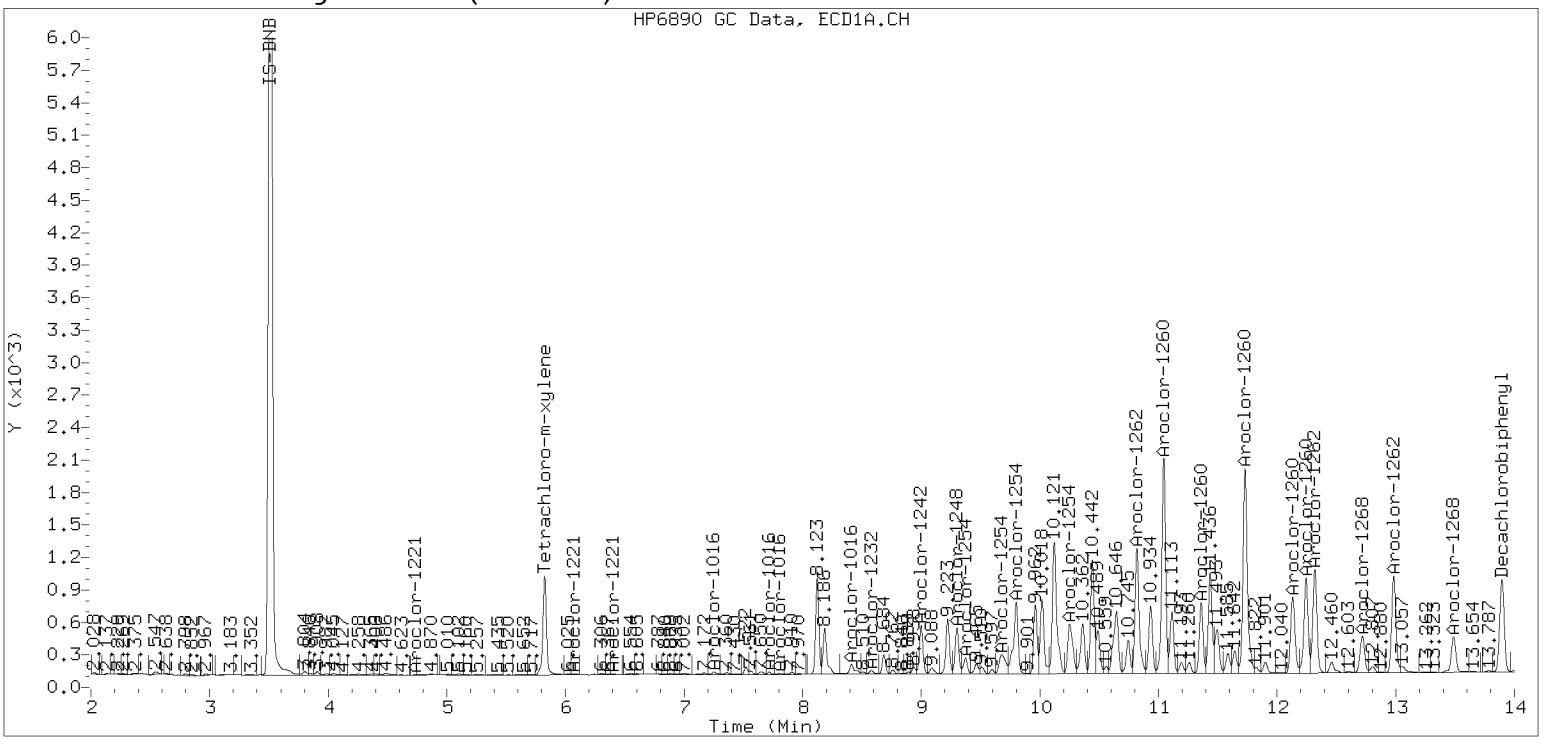
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042306ECD7.D Injection Date: 04-JAN-2023 11:08

Manual Integration (After)



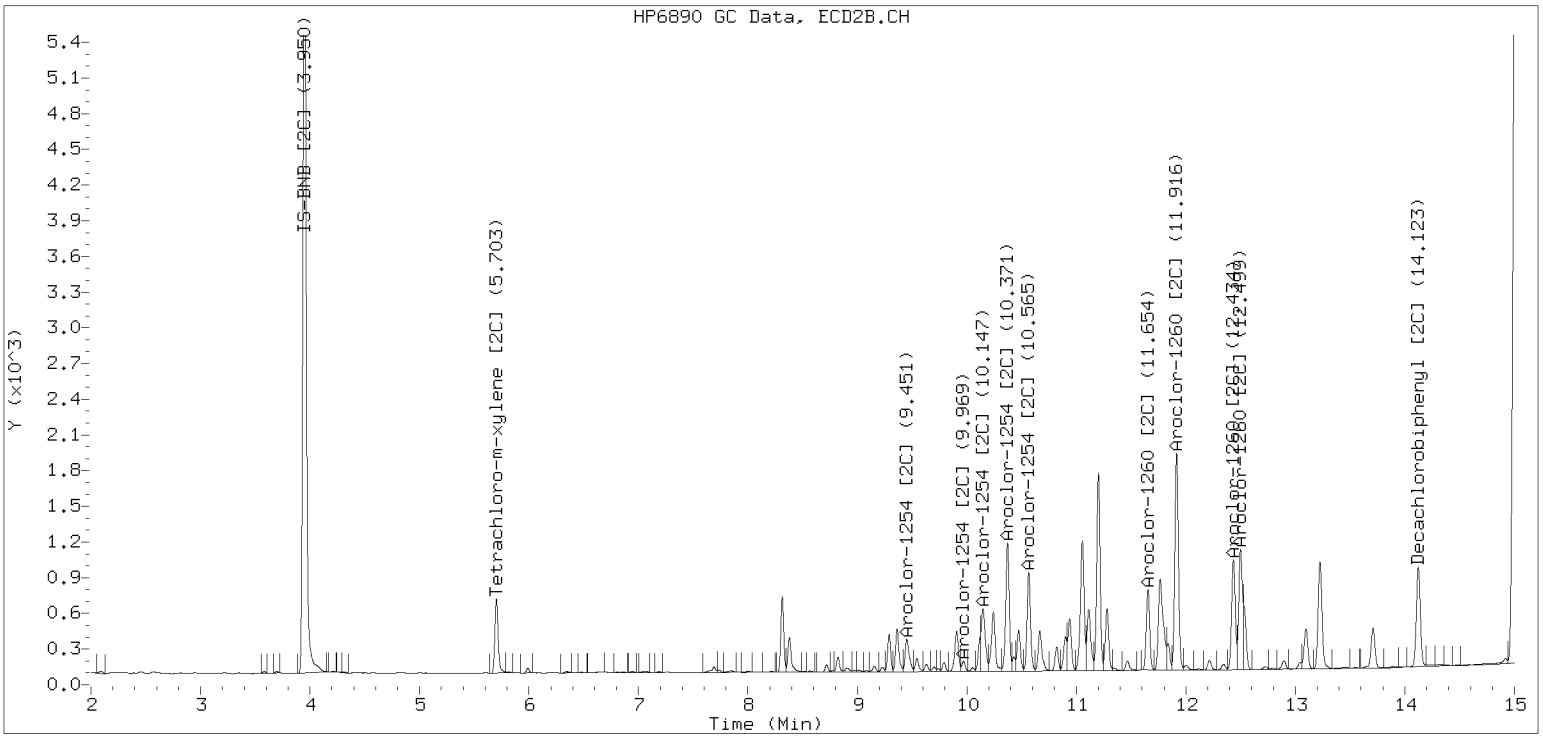
Processed Integration (Before)



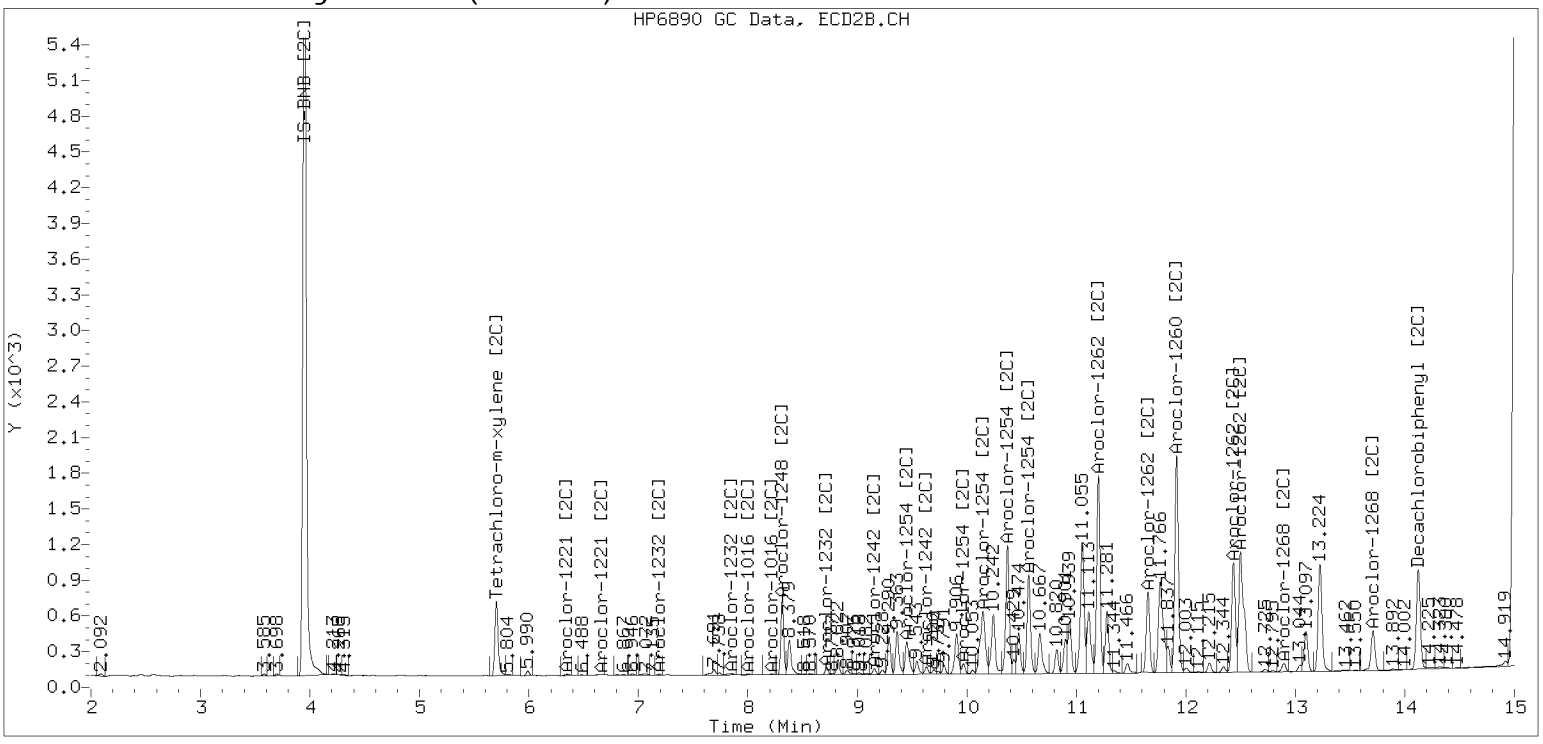
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230104.b/230104.b/01042306ECD7.D Injection Date: 04-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809C

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-44 C	File ID:	01032342ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 22:41
% Solids:	48.28	Preparation:	EPA 3546 (Microwave)	Initial/Final:	25.9 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	2	1	6.8	0.6	4.0	

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9971*	*7.01*	*87.7*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9971*	*4.19*	*52.4*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9971*	*6.44*	*80.5*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9971*	*4.90*	*61.2*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032342ECD7.D
Data file 2: /230103.b/230103.b/01032342ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-44
Client ID:
Injection Date: 03-JAN-2023 22:41
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.007	134016	5.702	-0.006	97716	21.0	24.5	15.5	Tetrachloro-m-xylene
13.896	-0.007	124979	14.124	-0.005	142564	35.1	32.2	8.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	450958	0.7
Hexabromobiphenyl	798898	388621	-51.4 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	291019	16.8
Hexabromobiphenyl	362541	311845	-14.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.300	-0.014	1823	4.6	1	9.452	-0.010	890	4.7
Aroclor-1254	2	9.369	-0.024	620	4.0	2	9.971	-0.007	381	2.5
Aroclor-1254	3	9.671	-0.015	678	2.7	3	10.146	0.017	1690	5.2
Aroclor-1254	4	9.798	-0.022	2178	4.5	4	10.371	-0.008	3823	11.4
Aroclor-1254	5	10.119	-0.056	3301	9.9	5	10.565	-0.012	2713	16.8
	Total Col1Ave (5 peaks):				5.1	Total Col2Ave (5 peaks):				8.1 RPD = 45*
	Corrected Ave (4 peaks):				3.9	Corrected Ave (4 peaks):				6.0 RPD = 41*
Aroclor-1260	1	11.042	-0.020	6167	43.6	1	11.653	-0.009	2714	16.5
Aroclor-1260	2	11.359	-0.018	1851	12.7	2	11.919	-0.007	7130	17.3
Aroclor-1260	3	11.774	0.023	3219	8.4	3	12.435	-0.009	8204	74.6
Aroclor-1260	4	12.129	-0.029	2132	10.9	4	12.497	-0.012	7606	27.6
Aroclor-1260	5	12.243	-0.019	5876	73.3	NS	---			----
	Total Col1Ave (5 peaks):				29.8	Total Col2Ave (4 peaks):				34.0 RPD = 13
	Corrected Ave (4 peaks):				18.9	Corrected Ave (3 peaks):				20.5 RPD = 8
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 421854 Col1 Total PCB = 0.1 ppm*

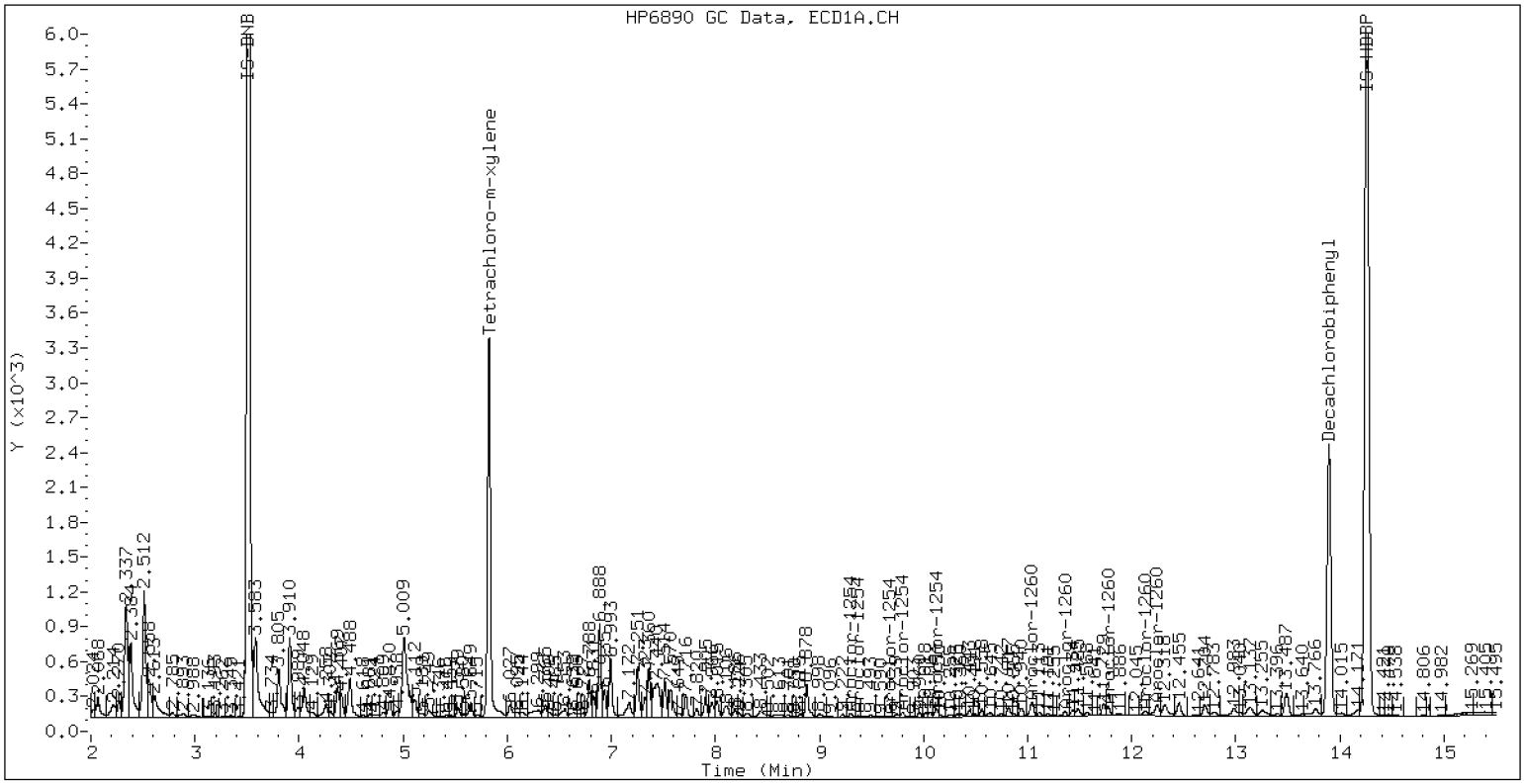
Total PCB Area Col2 (5.808 - 14.029) = 324203 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

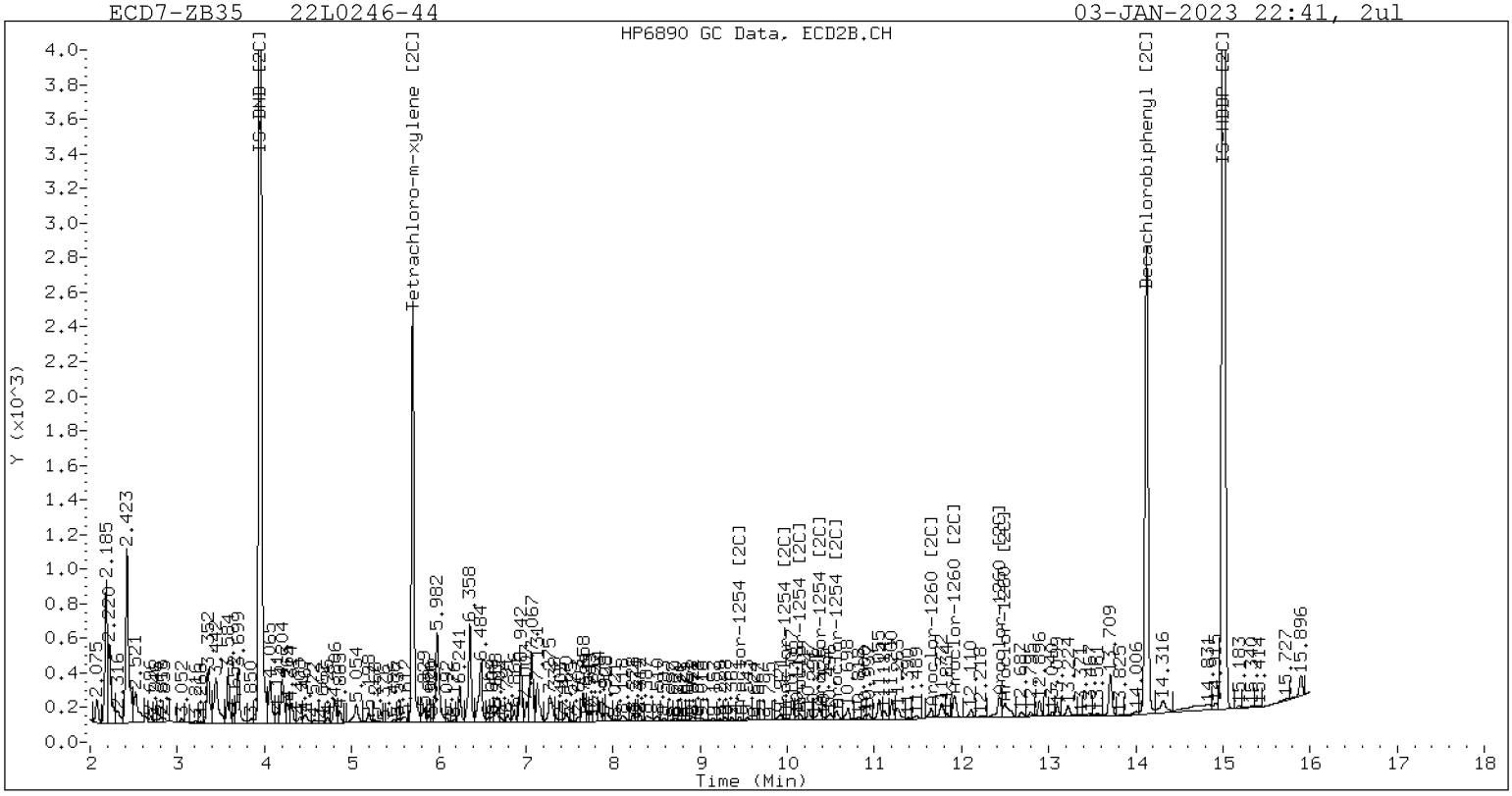
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-44 03-JAN-2023 22:41, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 22L0246-44 03-JAN-2023 22:41, 2ul

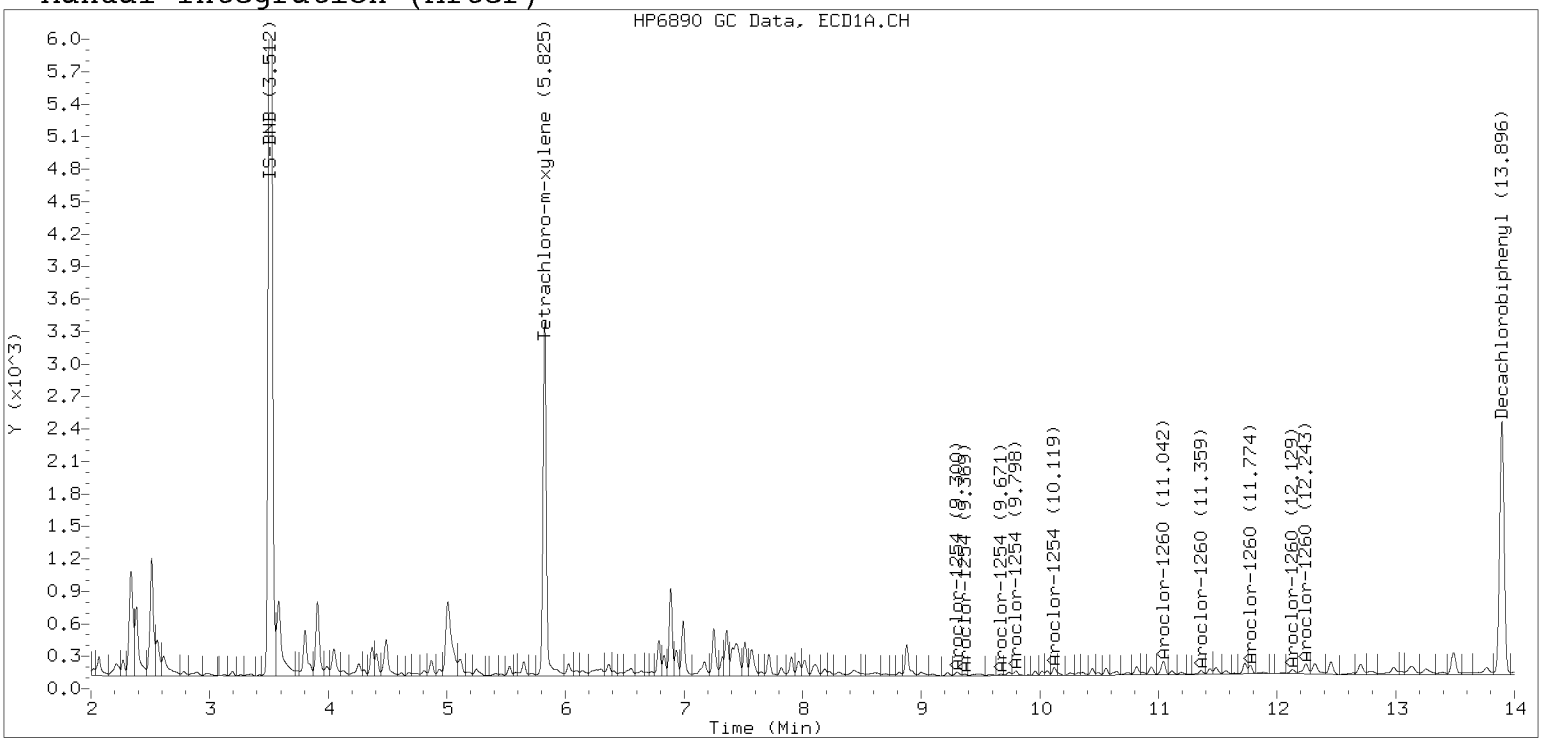


ZB-35 Manual Integration: YES

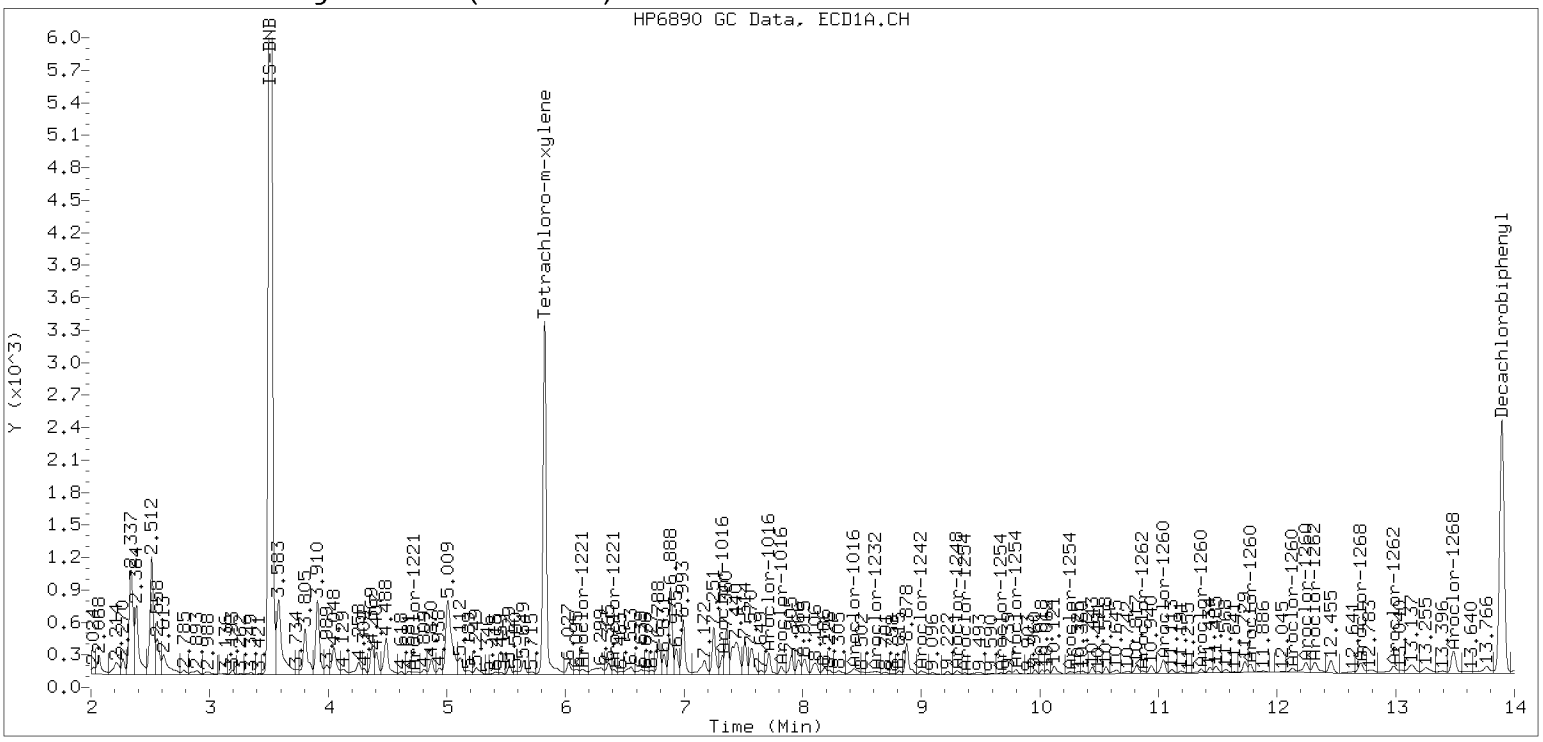
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032342ECD7.D Injection Date: 03-JAN-2023 22:41

Manual Integration (After)



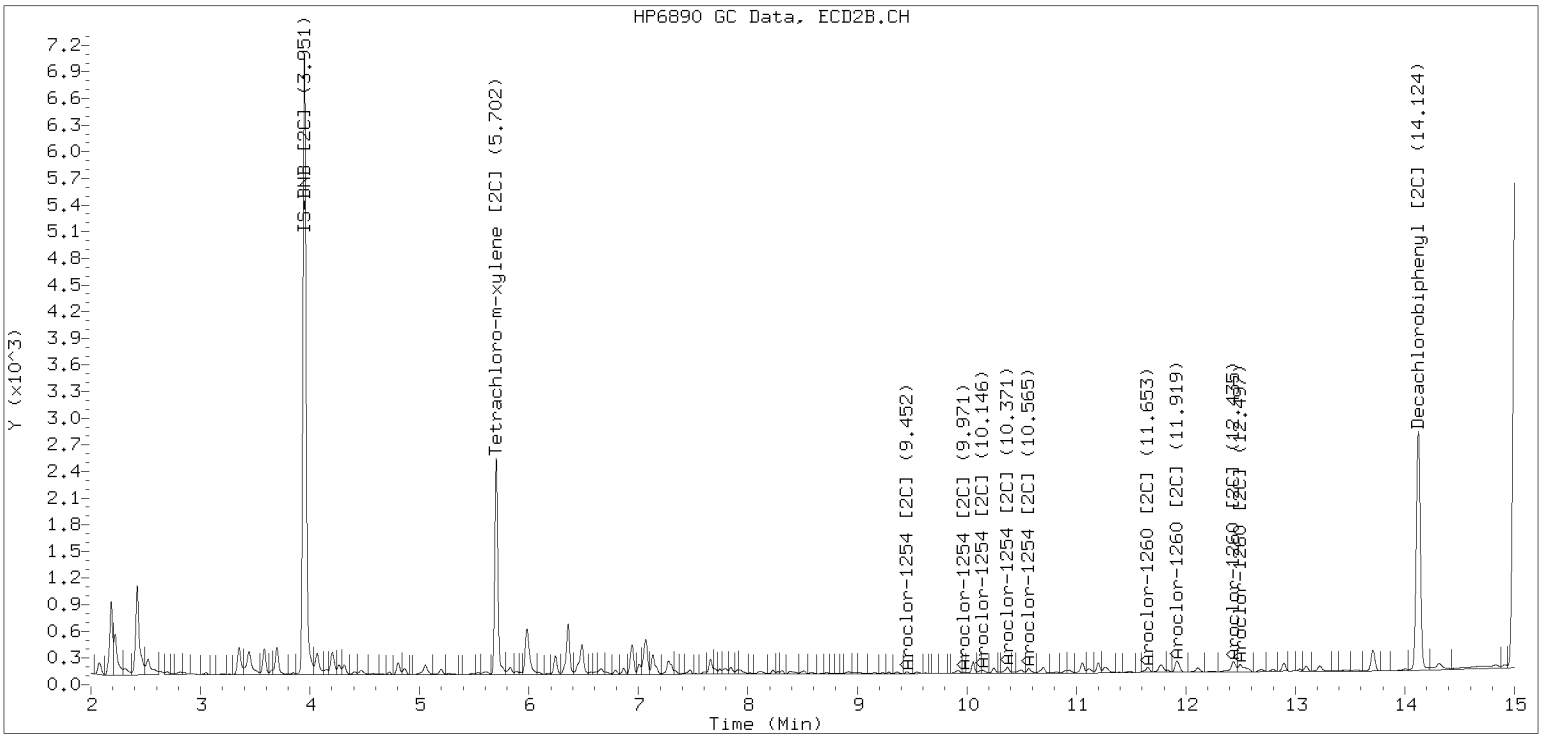
Processed Integration (Before)



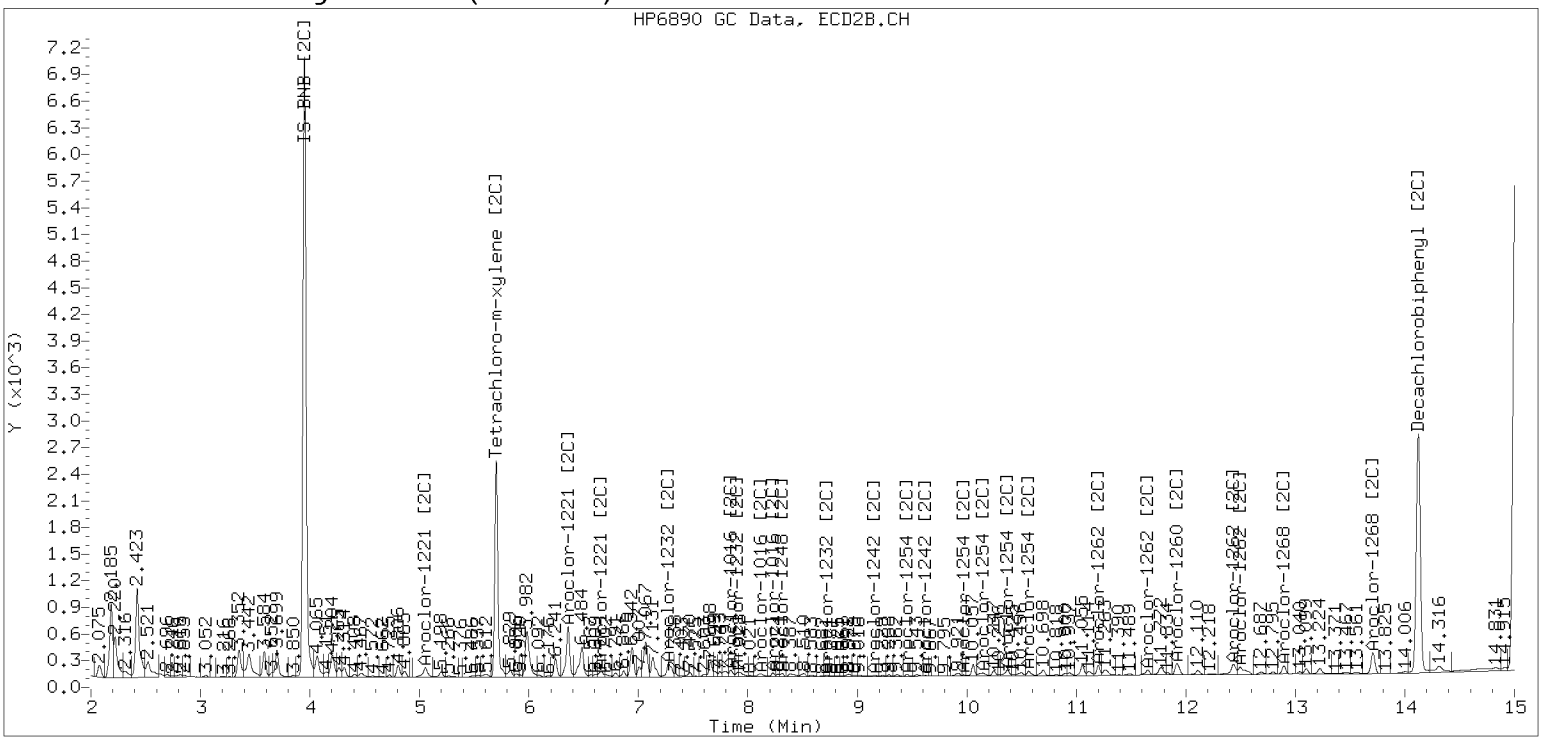
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230103.b/230103.b/01032342ECD7.D Injection Date: 03-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809D

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-45 C	File ID:	01032343ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 23:02
% Solids:	79.67	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.72 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	2.7	1.6	4.0	J
11097-69-1	Aroclor 1254	2	1	2.9	1.6	4.0	J
11096-82-5	Aroclor 1260	2	1	1.5	0.6	4.0	J

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9846*	*8.07*	*101*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9846*	*6.60*	*82.7*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9846*	*7.96*	*99.7*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9846*	*6.50*	*81.4*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032343ECD7.D
Data file 2: /230103.b/230103.b/01032343ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-45
Client ID:
Injection Date: 03-JAN-2023 23:02
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.003	217623	5.705	-0.003	145461	33.1	32.6	1.6	Tetrachloro-m-xylene
13.897	-0.006	218935	14.125	-0.004	222175	40.4	39.9	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464154	3.7
Hexabromobiphenyl	798898	590582	-26.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	325931	30.8
Hexabromobiphenyl	362541	392299	8.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	8.416	-0.012	3286	16.5	1	8.316	-0.005	2353	17.7
Aroclor-1248	2	8.584	-0.020	2172	8.5	2	8.721	-0.004	1330	9.5
Aroclor-1248	3	9.003	-0.020	4065	8.9	3	9.159	-0.012	1315	7.7
Aroclor-1248	4	9.303	-0.008	4689	20.9	4	9.635	0.043	347	1.7
	Total Col1Ave (4 peaks):				13.7	Total Col2Ave (4 peaks):				9.2 RPD = 40
	Corrected Ave (3 peaks):				11.3	Corrected Ave (3 peaks):				6.3 RPD = 56*
Aroclor-1254	1	9.303	-0.011	4689	11.5	1	9.455	-0.006	2548	12.1
Aroclor-1254	2	9.380	-0.014	1914	12.0	2	9.973	-0.005	1772	10.5
Aroclor-1254	3	9.671	-0.015	2280	8.8	3	10.122	-0.007	6235	17.2
Aroclor-1254	4	9.806	-0.014	7760	15.4	4	10.370	-0.008	5874	15.6
Aroclor-1254	5	10.153	-0.023	3924	11.4	5	10.570	-0.007	3021	16.7
	Total Col1Ave (5 peaks):				11.8	Total Col2Ave (5 peaks):				14.4 RPD = 20
	Corrected Ave (4 peaks):				10.9	Corrected Ave (4 peaks):				13.7 RPD = 23
Aroclor-1260	1	11.046	-0.016	1238	5.8	1	11.533	-0.130	25372	12~~0~~.5
Aroclor-1260	2	11.361	-0.016	731	3.3	2	11.918	-0.008	2508	4.8
Aroclor-1260	3	11.736	-0.016	2007	3.4	3	12.430	-0.014	1656	12.0
Aroclor-1260	4	12.136	-0.022	1570	5.3	4	12.504	-0.005	1979	5.7
Aroclor-1260	5	12.248	-0.013	972	8.0	NS	---			----
	Total Col1Ave (5 peaks):				5.1	Total Col2Ave (4 peaks):				~~36~~.3 RPD = 150*
	Corrected Ave (4 peaks):				4.4	Corrected Ave (3 peaks):				7.5 RPD = 51*
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 167668 Col1 Total PCB = 0.0 ppm*

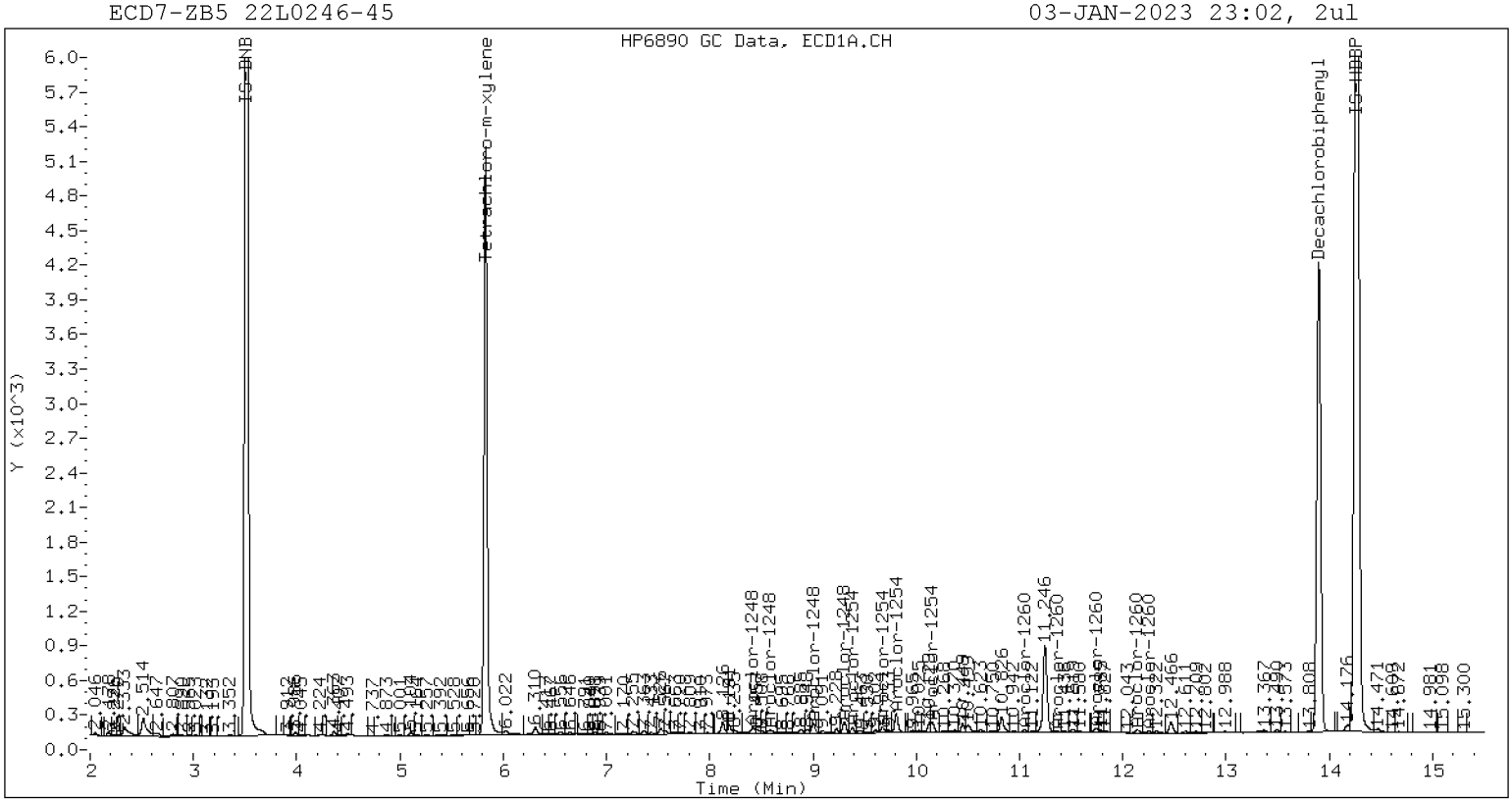
Total PCB Area Col2 (5.808 - 14.029) = 120056 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

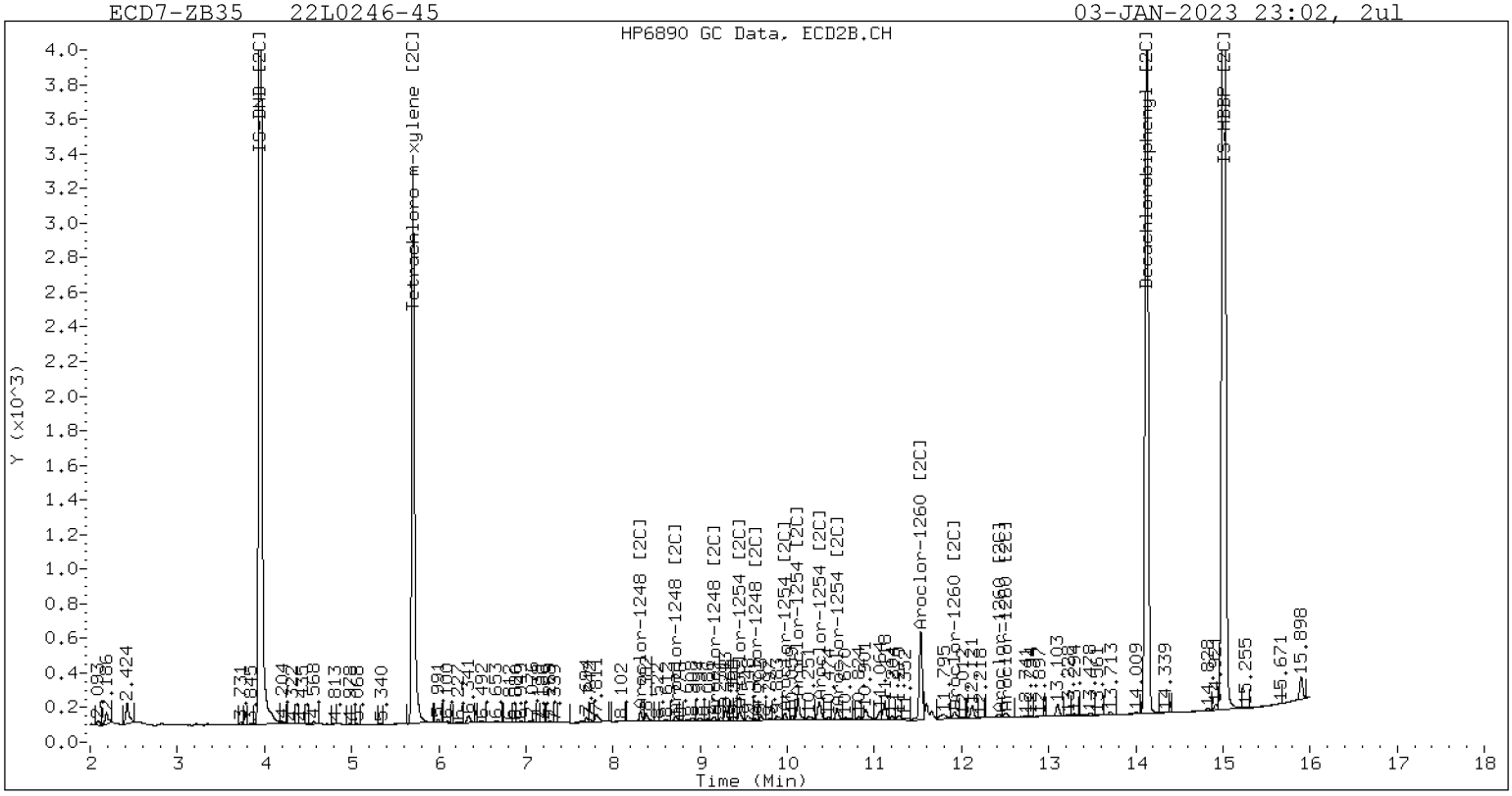
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-45 03-JAN-2023 23:02, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-45 03-JAN-2023 23:02, 2ul

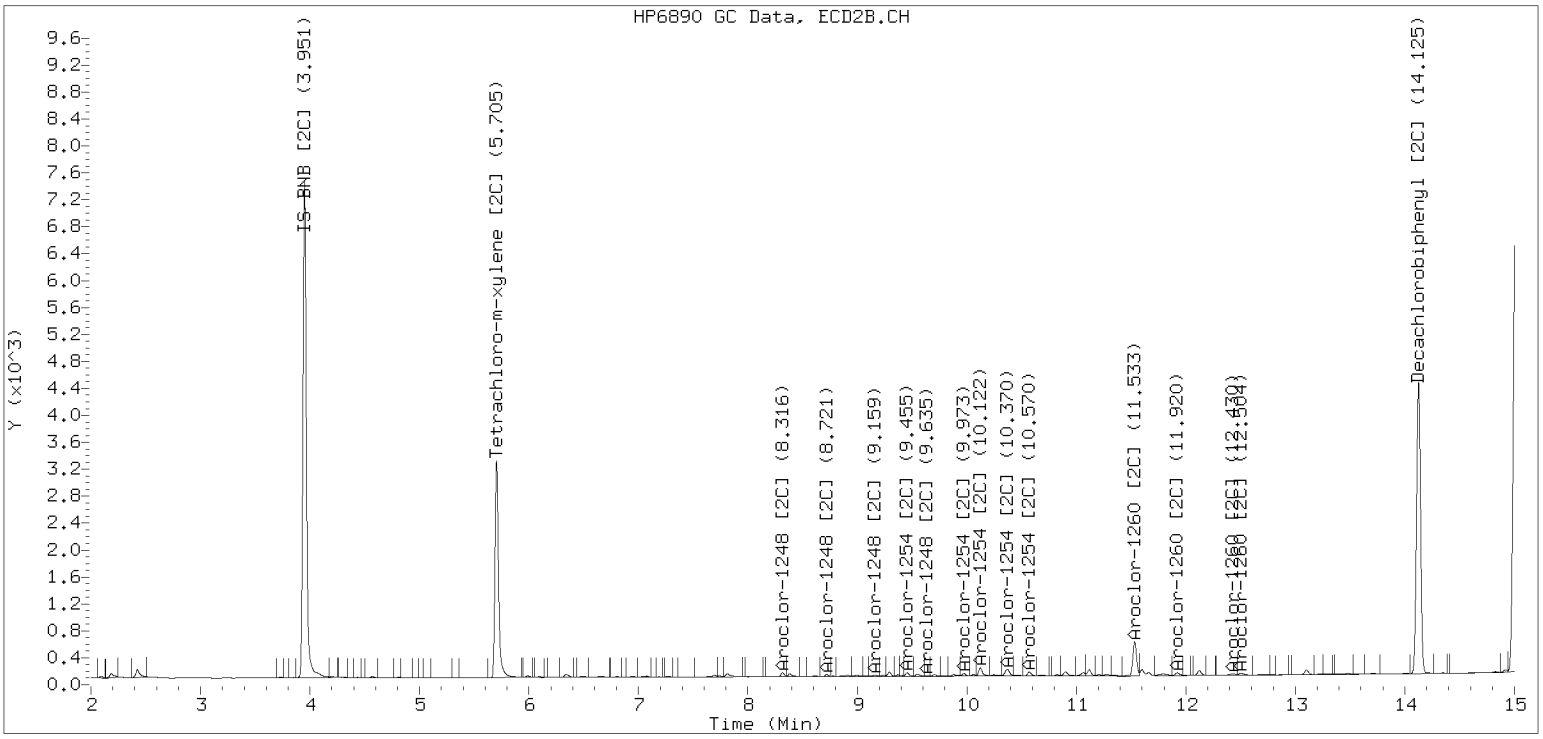


ZB-35 Manual Integration: YES

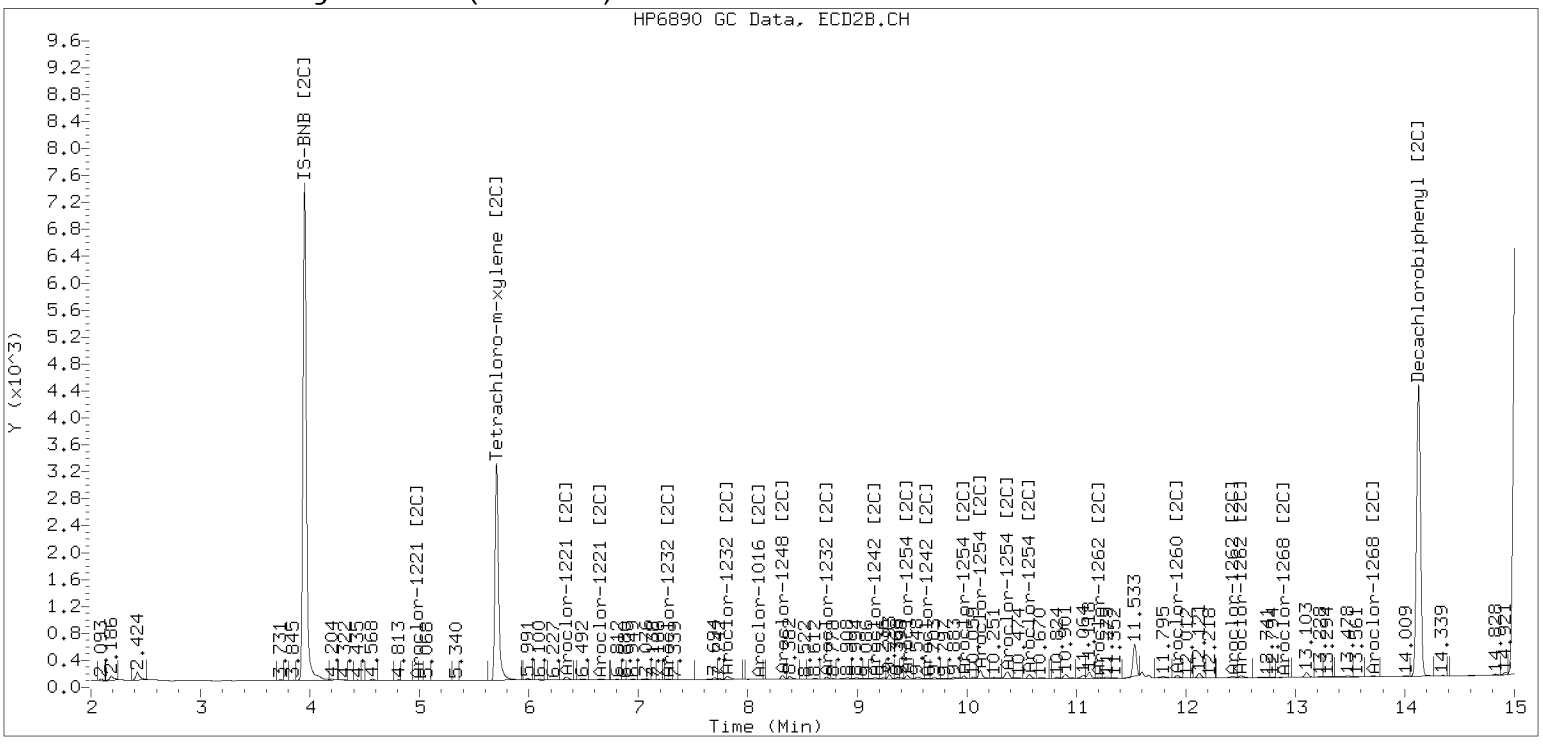
Manual Peak Adjustment, ZB-35

Datafile: ecd7.i/230103.b/230103.b/01032343ECD7.D Injection Date: 03-JAN-2023

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809E

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-46 C	File ID:	01032344ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 23:23
% Solids:	81.98	Preparation:	EPA 3546 (Microwave)	Initial/Final:	15.26 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	2	1	3.8	1.6	4.0	J
11096-82-5	Aroclor 1260	2	1	1.5	0.6	4.0	J

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9935*	*8.25*	*103*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9935*	*6.71*	*83.9*	*44 - 120*	
Decachlorobiphenyl	*2*	*7.9935*	*8.32*	*104*	*40 - 126*	
Tetrachlorometaxylene	*2*	*7.9935*	*6.45*	*80.8*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032344ECD7.D
Data file 2: /230103.b/230103.b/01032344ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-46
Client ID:
Injection Date: 03-JAN-2023 23:23
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	225617	5.706	-0.002	147820	33.6	32.3	3.8	Tetrachloro-m-xylene
13.899	-0.004	286946	14.125	-0.005	266283	41.3	41.6	0.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	474360	6.0
Hexabromobiphenyl	798898	758163	-5.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	333861	34.0
Hexabromobiphenyl	362541	450491	24.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	9.307	-0.008	6107	14.6	1	9.457	-0.004	3495	16.2
Aroclor-1254	2	9.384	-0.010	2730	16.8	2	9.975	-0.003	2195	12.7
Aroclor-1254	3	9.675	-0.011	2849	10.8	3	10.125	-0.004	8482	22.8
Aroclor-1254	4	9.811	-0.009	10657	20.7	4	10.372	-0.006	7967	20.7
Aroclor-1254	5	10.164	-0.012	5189	14.7	5	10.572	-0.004	4081	22.0
		Total Col1Ave (5 peaks):			15.5	Total Col2Ave (5 peaks):				18.9 RPD = 19
		Corrected Ave (4 peaks):			14.2	Corrected Ave (4 peaks):				17.9 RPD = 23
Aroclor-1260	1	11.051	-0.011	1580	5.7	1	11.660	-0.003	2751	11.6
Aroclor-1260	2	11.368	-0.010	1199	4.2	2	11.921	-0.005	2531	4.2
Aroclor-1260	3	11.738	-0.014	3761	5.0	3	12.434	-0.010	1321	8.3
Aroclor-1260	4	12.140	-0.018	2313	6.1	4	12.504	-0.006	2164	5.4
Aroclor-1260	5	12.250	-0.011	766	4.9	NS	---			----
		Total Col1Ave (5 peaks):			5.2	Total Col2Ave (4 peaks):				7.4 RPD = 35
		Corrected Ave (4 peaks):			5.0	Corrected Ave (3 peaks):				6.0 RPD = 19
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
		Col1Ave: <3 Quant Peaks				Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 149244 Col1 Total PCB = 0.0 ppm*

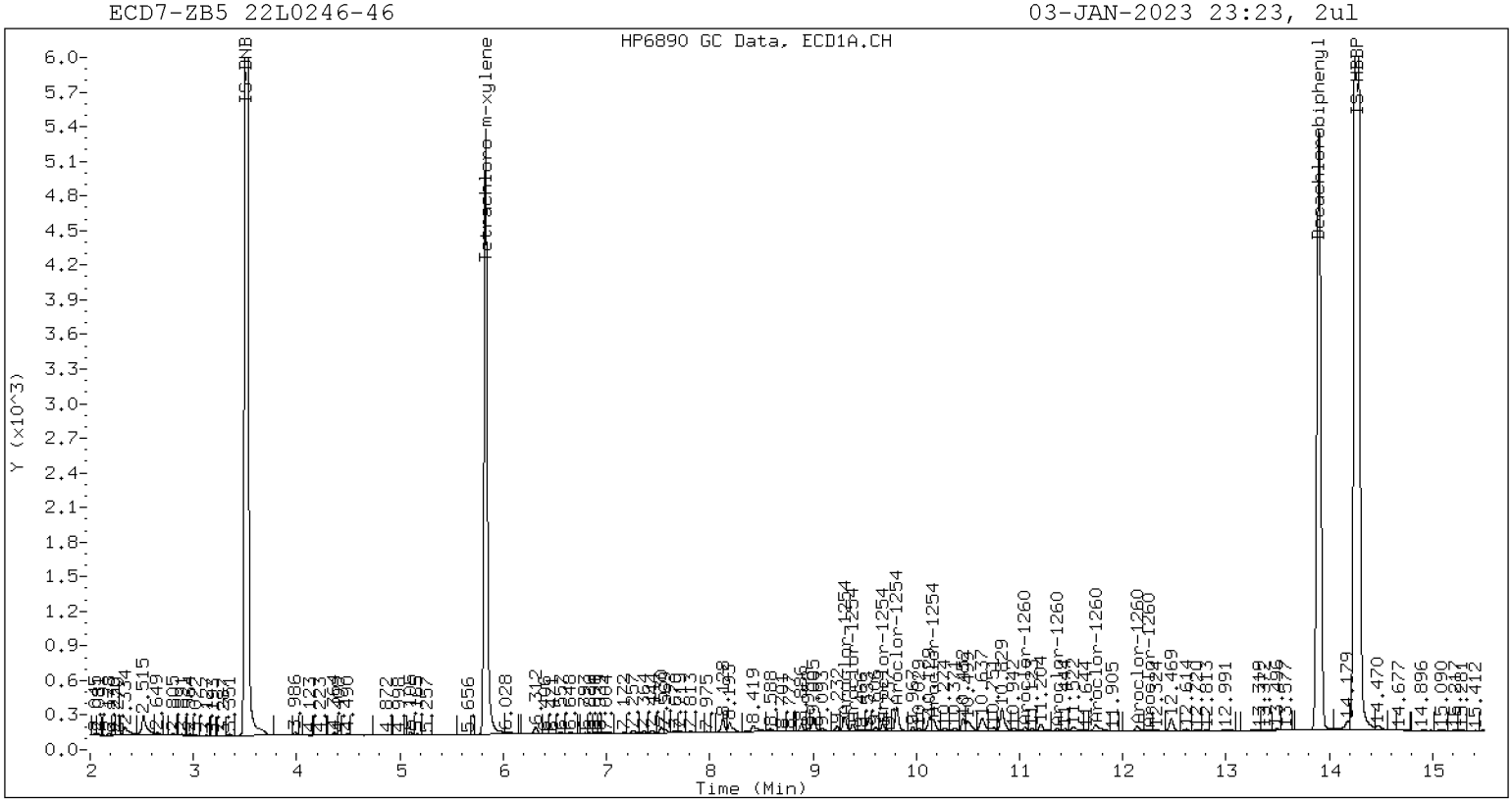
Total PCB Area Col2 (5.808 - 14.029) = 110841 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

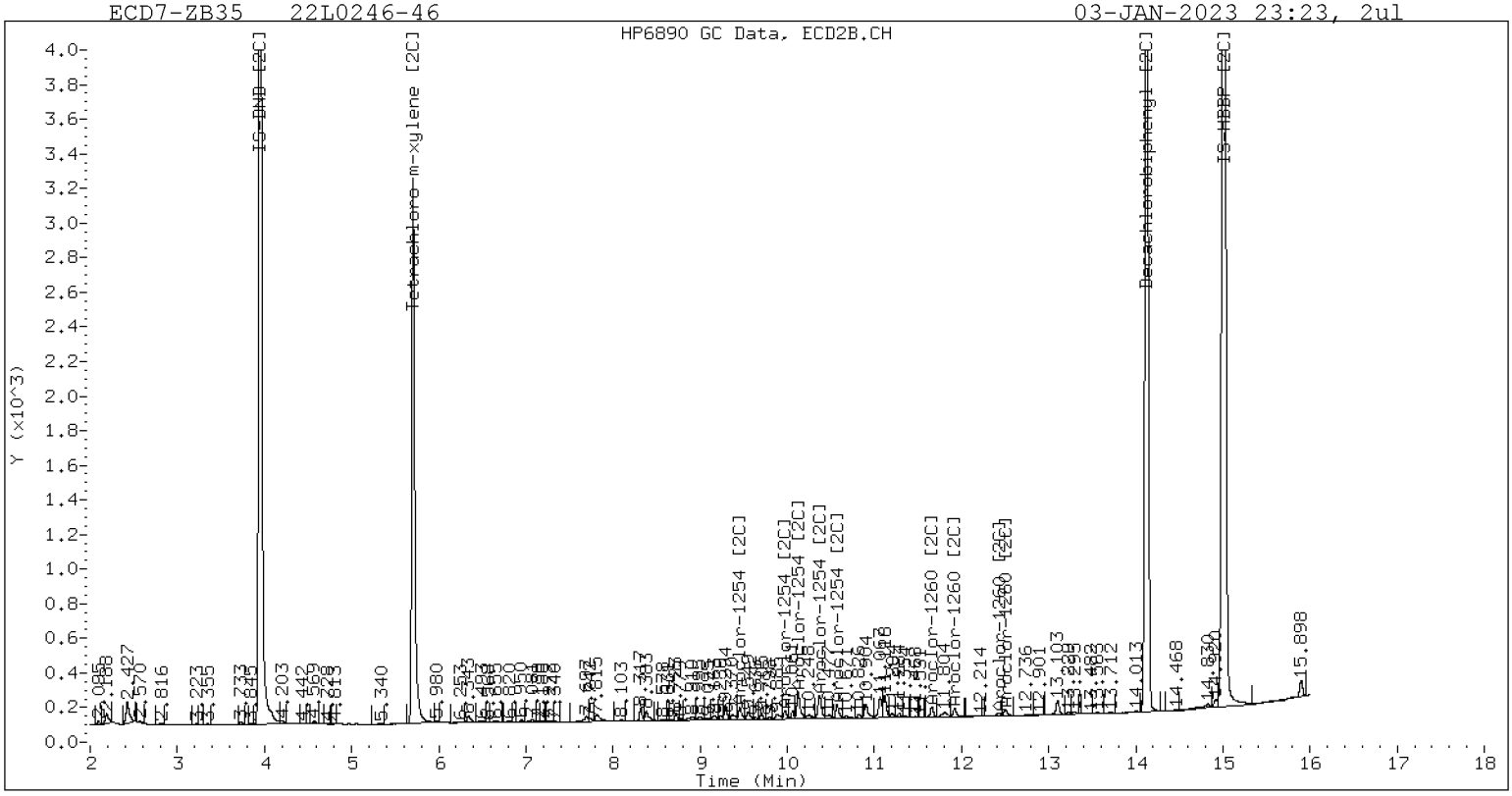
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-46 03-JAN-2023 23:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-46 03-JAN-2023 23:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809F

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-47 C	File ID:	01032345ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 23:44
% Solids:	71.14	Preparation:	EPA 3546 (Microwave)	Initial/Final:	17.65 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9642*	*8.58*	*108*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9642*	*6.60*	*82.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032345ECD7.D
Data file 2: /230103.b/230103.b/01032345ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-47
Client ID:
Injection Date: 03-JAN-2023 23:44
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.828	-0.004	224958	5.705	-0.003	148041	33.1	33.8	2.1	Tetrachloro-m-xylene
13.897	-0.006	292493	14.125	-0.004	259471	43.1	40.7	5.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	478968	7.0
Hexabromobiphenyl	798898	740695	-7.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319204	28.1
Hexabromobiphenyl	362541	449531	24.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 169103 Col1 Total PCB = 0.0 ppm*

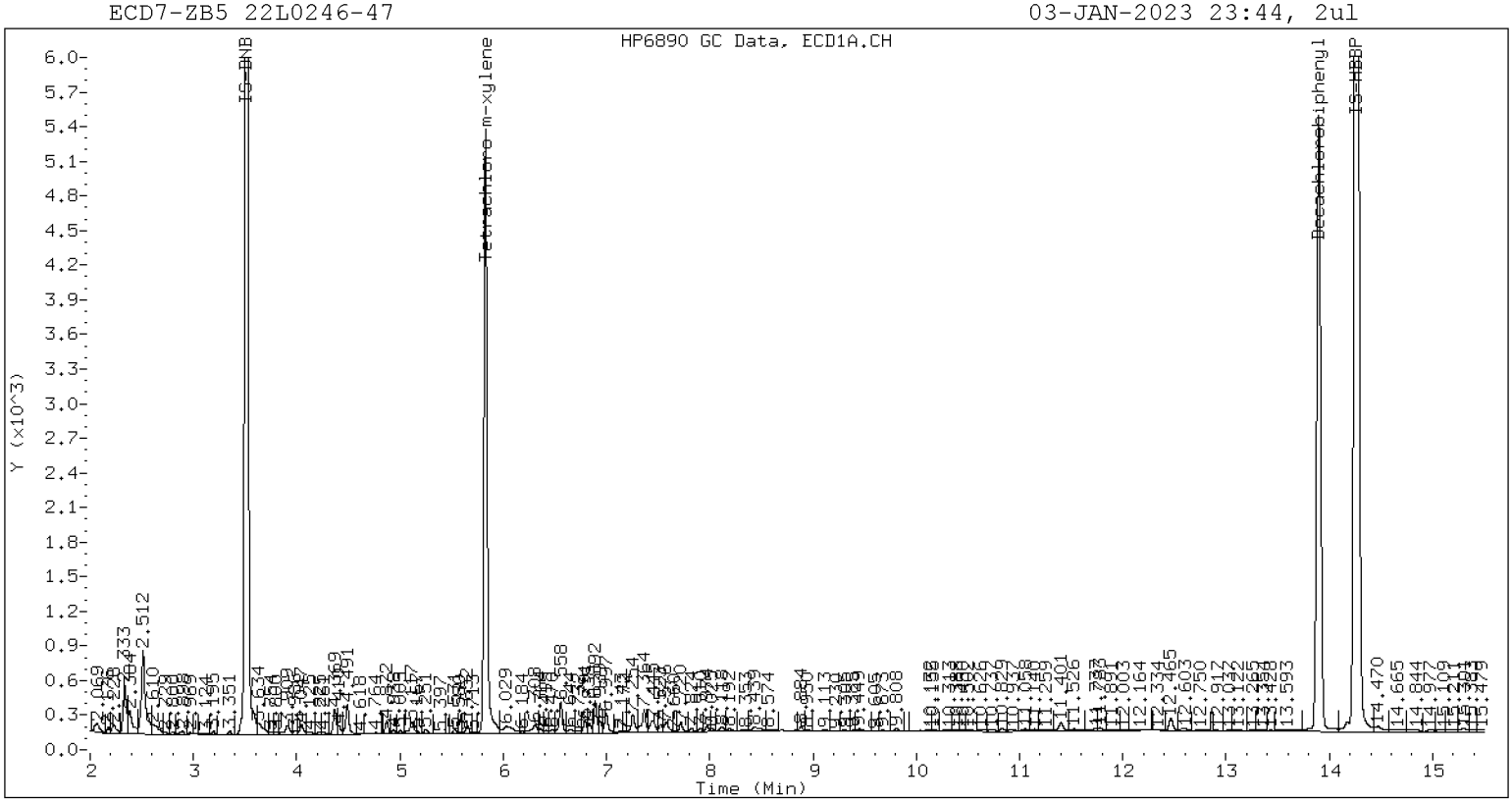
Total PCB Area Col2 (5.808 - 14.029) = 142798 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

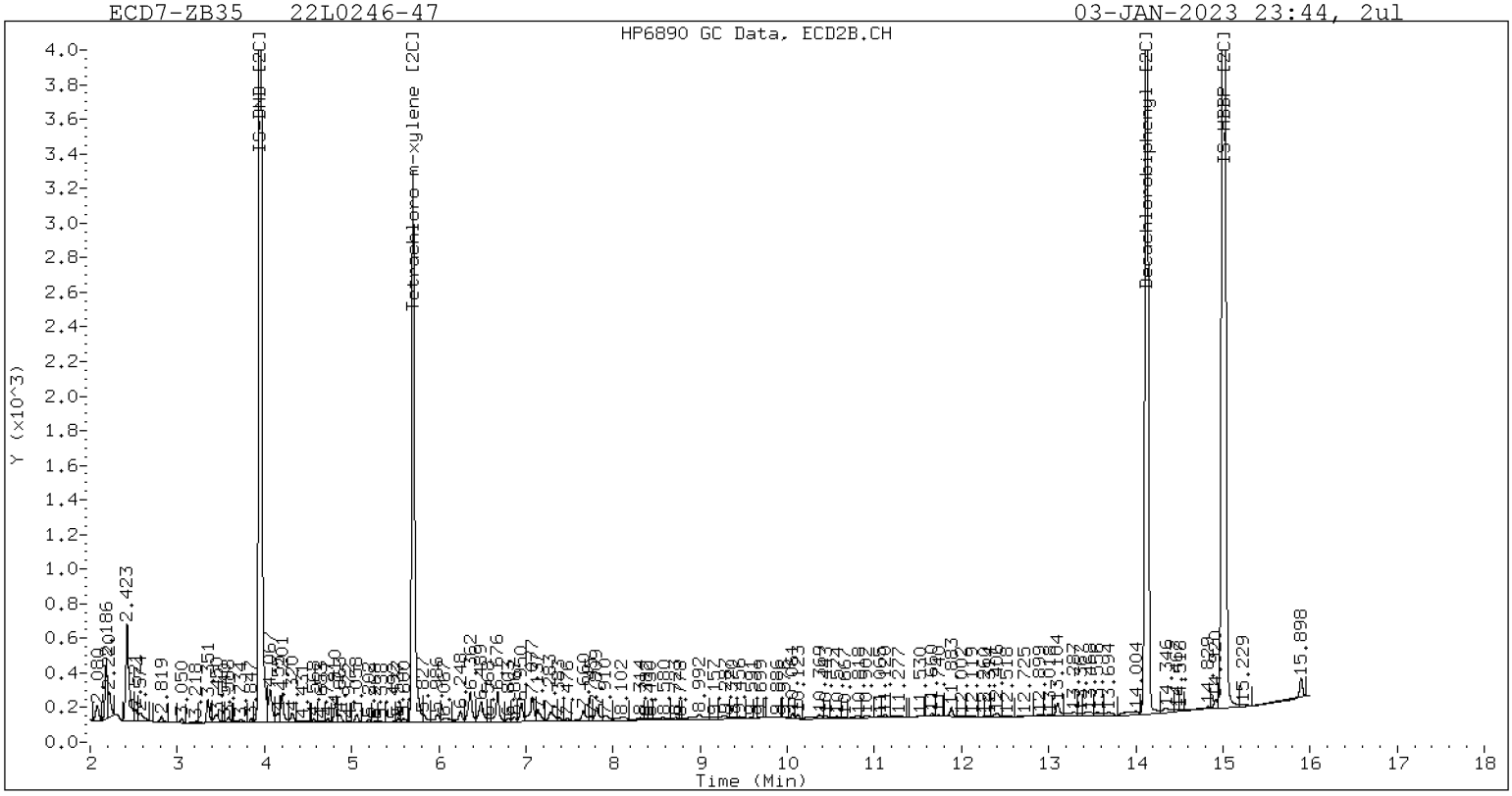
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-47 03-JAN-2023 23:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-47 03-JAN-2023 23:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

LDW22-IT809G

ORGANIC ANALYSIS DATA SHEET
EPA 8082A

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Solid	Laboratory ID:	22L0246-48 C	File ID:	01032346ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 00:05
% Solids:	91.65	Preparation:	EPA 3546 (Microwave)	Initial/Final:	13.67 g Wet / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column 1:	ZB5	Column 2:	ZB35

CAS NO.	COMPOUND	Col #	DILUTION	CONC. (ug/kg dry)	MDL	MRL	Q
12674-11-2	Aroclor 1016	1	1	4.0	1.6	4.0	U
11104-28-2	Aroclor 1221	1	1	4.0	1.6	4.0	U
11141-16-5	Aroclor 1232	1	1	4.0	1.6	4.0	U
53469-21-9	Aroclor 1242	1	1	4.0	1.6	4.0	U
12672-29-6	Aroclor 1248	1	1	4.0	1.6	4.0	U
11097-69-1	Aroclor 1254	1	1	4.0	1.6	4.0	U
11096-82-5	Aroclor 1260	1	1	4.0	0.6	4.0	U

SURROGATES	Col #	ADDED (ug/kg dry)	CONC (ug/kg dry)	% REC	QC LIMITS	Q
Decachlorobiphenyl	*1*	*7.9818*	*8.07*	*101*	*40 - 126*	
Tetrachlorometaxylene	*1*	*7.9818*	*6.46*	*80.9*	*44 - 120*	

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032346ECD7.D
Data file 2: /230103.b/230103.b/01032346ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 22L0246-48
Client ID:
Injection Date: 04-JAN-2023 00:05
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.002	222776	5.706	-0.002	143513	32.4	30.8	5.0	Tetrachloro-m-xylene
13.900	-0.003	338274	14.126	-0.003	289865	40.4	40.7	0.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	485557	8.5
Hexabromobiphenyl	798898	912556	14.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	339793	36.4
Hexabromobiphenyl	362541	501138	38.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 131414 Col1 Total PCB = 0.0 ppm*

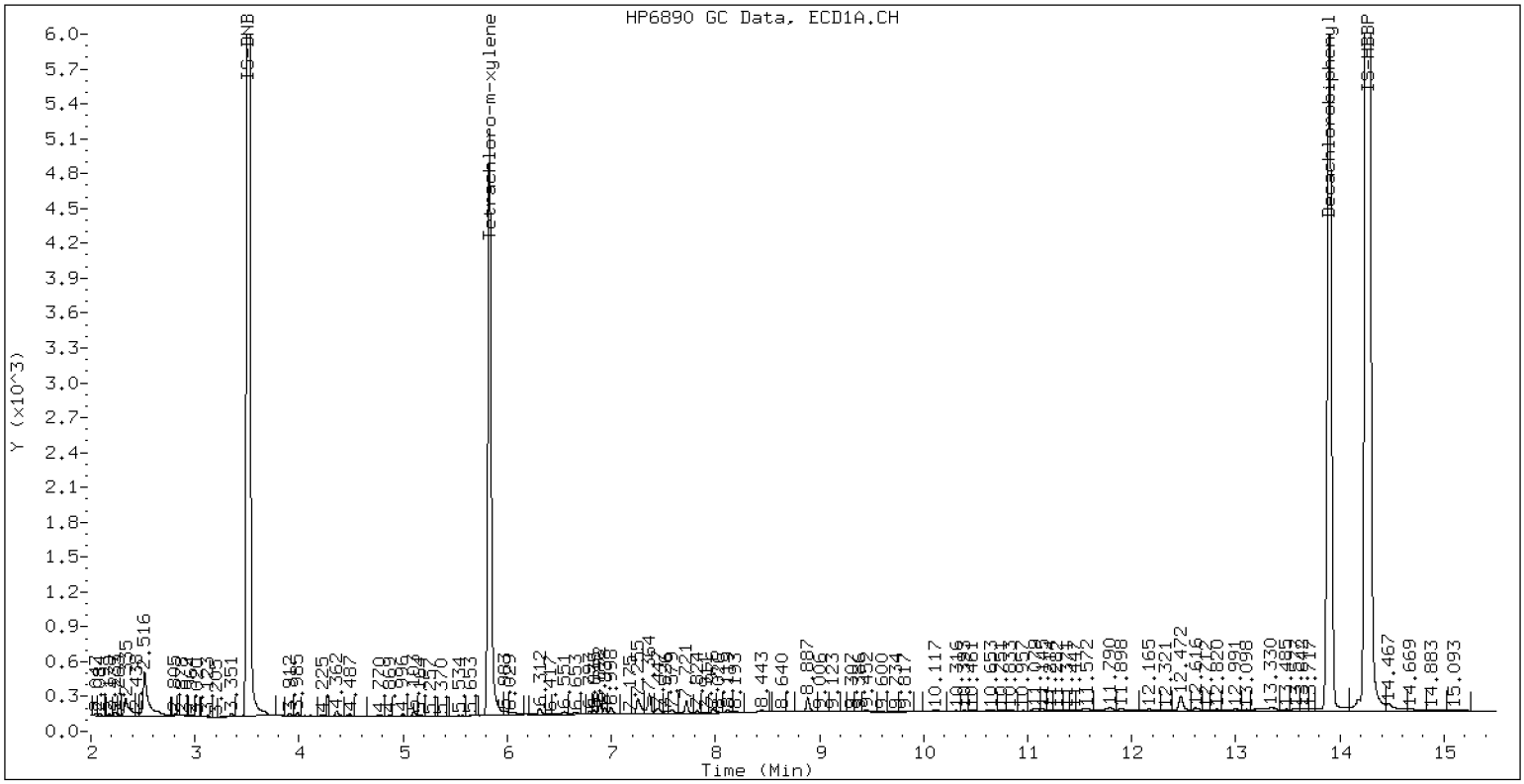
Total PCB Area Col2 (5.808 - 14.029) = 61772 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

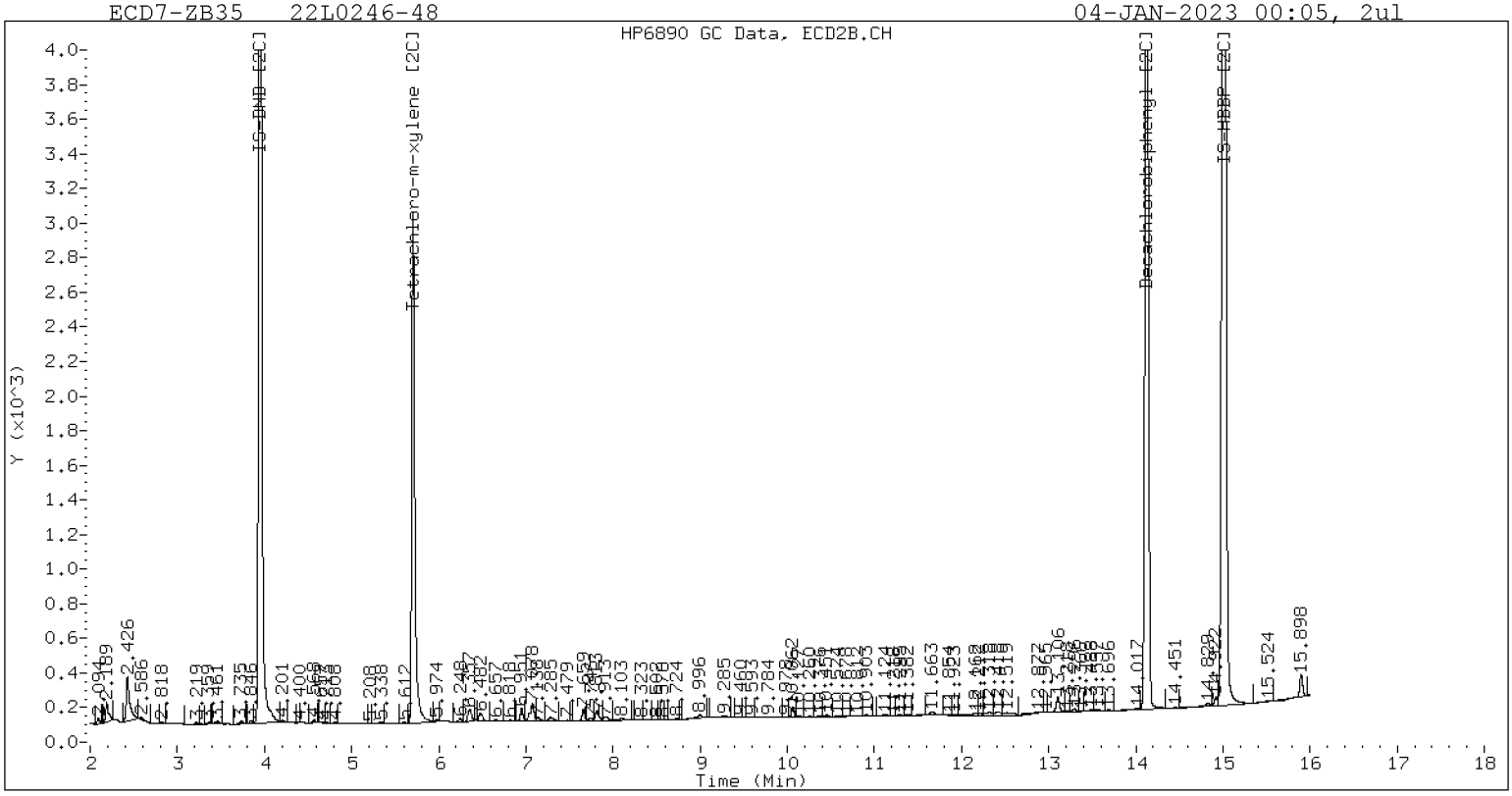
PCB Dual Column Chromatograms

ECD7-ZB5 22L0246-48 04-JAN-2023 00:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 22L0246-48 04-JAN-2023 00:05, 2ul



ZB-35 Manual Integration: NO

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0490 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778B	22L0246-01	01092349ECD7.D	12/20/22 15:36	
LDW22-SC778C	22L0246-02	01092351ECD7.D	12/20/22 15:36	
LDW22-SC778C-FD	22L0246-03	01092352ECD7.D	12/20/22 15:36	
LDW22-SC778D	22L0246-04	01092350ECD7.D	12/20/22 15:36	
LDW22-SC778E	22L0246-05	01042369ECD7.D	12/20/22 15:36	
LDW22-SC778F	22L0246-06	01052365ECD7.D	12/20/22 15:36	
LDW22-IT810A	22L0246-07	01052366ECD7.D	12/20/22 15:36	
LDW22-IT810B	22L0246-08	01042372ECD7.D	12/20/22 15:36	
LDW22-IT810C	22L0246-09	01052368ECD7.D	12/20/22 15:36	
LDW22-IT810B-FD	22L0246-10	01042374ECD7.D	12/20/22 15:36	
LDW22-IT810D	22L0246-11	01052321ECD7.D	12/20/22 15:36	
LDW22-IT810E	22L0246-12	01052322ECD7.D	12/20/22 15:36	
LDW22-IT810F	22L0246-13	01052323ECD7.D	12/20/22 15:36	
LDW22-IT810G	22L0246-14	01052324ECD7.D	12/20/22 15:36	
LDW22-SC779A	22L0246-15	01052325ECD7.D	12/20/22 15:36	
LDW22-SC779B	22L0246-16	01052326ECD7.D	12/20/22 15:36	
LDW22-SC779C	22L0246-17	01052327ECD7.D	12/20/22 15:36	
LDW22-SC779D	22L0246-18	01092337ECD7.D	12/20/22 15:36	
LDW22-SC779D-FD	22L0246-19	01092338ECD7.D	12/20/22 15:36	
LDW22-SC779E	22L0246-20	01092339ECD7.D	12/20/22 15:36	
Blank	BKL0490-BLK1	01042359ECD7.D	12/20/22 15:36	
LCS	BKL0490-BS1	01042360ECD7.D	12/20/22 15:36	
LCS Dup	BKL0490-BSD1	01042361ECD7.D	12/20/22 15:36	
LDW22-IT810G	BKL0490-MS1	01042363ECD7.D	12/20/22 15:36	
LDW22-IT810G	BKL0490-MSD1	01042364ECD7.D	12/20/22 15:36	
Reference	BKL0490-SRM1	01042362ECD7.D	12/20/22 15:36	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0490

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid Date Prepared: 12/20/22 Balance ID: B146462614 Set Up By: CTO 12/19/22

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0246-01 B	64.5	(19.39) 19.43	5mL	5mL	2mL	2.5	1.0	
22L0246-02 B	65.2	(19.19) 19.21	5mL	5mL	2mL	2.5	1.0	
22L0246-03 B	64.6	(19.37) 19.37	5mL	5mL	2mL	2.5	1.0	
22L0246-04 B	58.0	(21.56) 21.64	5mL	5mL	2mL	2.5	1.0	
22L0246-05 B	58.2	(21.48) 21.48	5mL	5mL	2mL	2.5	1.0	
22L0246-06 B	63.3	(19.74) 19.78	5mL	5mL	2mL	2.5	1.0	
22L0246-07 C	62.5	(20.01) 20.02	5mL	5mL	2mL	2.5	1.0	
22L0246-08 C	63.5	(19.68) 19.70	5mL	5mL	2mL	2.5	1.0	
22L0246-09 C	59.2	(21.10) 21.13	5mL	5mL	2mL	2.5	1.0	
22L0246-10 C	65.2	(19.16) 19.21	5mL	5mL	2mL	2.5	1.0	
22L0246-11 C	59.9	(20.85) 20.85	5mL	5mL	2mL	2.5	1.0	
22L0246-12 C	54.6	(22.92) 22.92	5mL	5mL	2mL	2.5	1.0	
22L0246-13 C	53.6	(23.34) 23.34	5mL	5mL	2mL	2.5	1.0	
22L0246-14 C	64.1	(19.51) 19.57	5mL	5mL	2mL	2.5	1.0	
22L0246-15 B	57.2	(21.84) 21.89	5mL	5mL	2mL	2.5	1.0	
22L0246-16 B	58.5	(21.39) 21.39	5mL	5mL	2mL	2.5	1.0	
22L0246-17 B	56.3	(22.22) 22.26	5mL	5mL	2mL	2.5	1.0	
22L0246-18 B	57.2	(21.84) 21.86	5mL	5mL	2mL	2.5	1.0	
22L0246-19 B	57.2	(21.85) 21.87	5mL	5mL	2mL	2.5	1.0	
22L0246-20 B	59.7	(20.96) 20.97	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0490-BLK1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0490-BS1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0490-BSD1	100.0	(12.50) 12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0490-MS1	64.1	(19.51) 19.51	5mL	5mL	2mL	2.5	1.0	Use 22L0246-14
BKL0490-MSD1	64.1	(19.51) 19.51	5mL	5mL	2mL	2.5	1.0	Use 22L0246-14
BKL0490-SRM1	100.0	~~(12.50)~~ (2.50) 2.50	5mL	5mL	2mL	2.5	1.0	Use K010815

+1g DI WATER

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0490

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID Verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
[illegible]	12/20/22	LJ	1/4/23	12/20/22 15:36

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0490

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 3
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
CP 12/30/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
ZH 1/3/23
Analyst/Date

TurboVap
Post Cleanups
1 2 (3) 4 5
LJ 1/4/23
Analyst/Date

Vialing
LJ 1/4/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: MJ/GT Date: 12/21/22 12/22/22	
Neutral Glass Wool	KH0266, KH0502
1:1 Hexane/Acetone	KO11642
Hexane	KO11373
Anhydrous Sodium Sulfate	KO11562
KD Analyst: CP Date: 12/30/22	
Anhydrous Sodium Sulfate	
Hexane	KO11373
Vialing Analyst: ZH/LJ Date: 1/4/23	
Hexane KO11373	~~KO10364~~ LJ 1/4/23
Concentrated Sulfuric Acid	KO10364
Silica Gel (SPE) Darts	KO11573
Sodium Sulfite	KO03744, KO10563
Tetrabutylammonium hydrogensulfate (TBAS)	KO11530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 Exp Date: 1/23/2023	50µL	GT	✓
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	GT	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0490

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) / N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

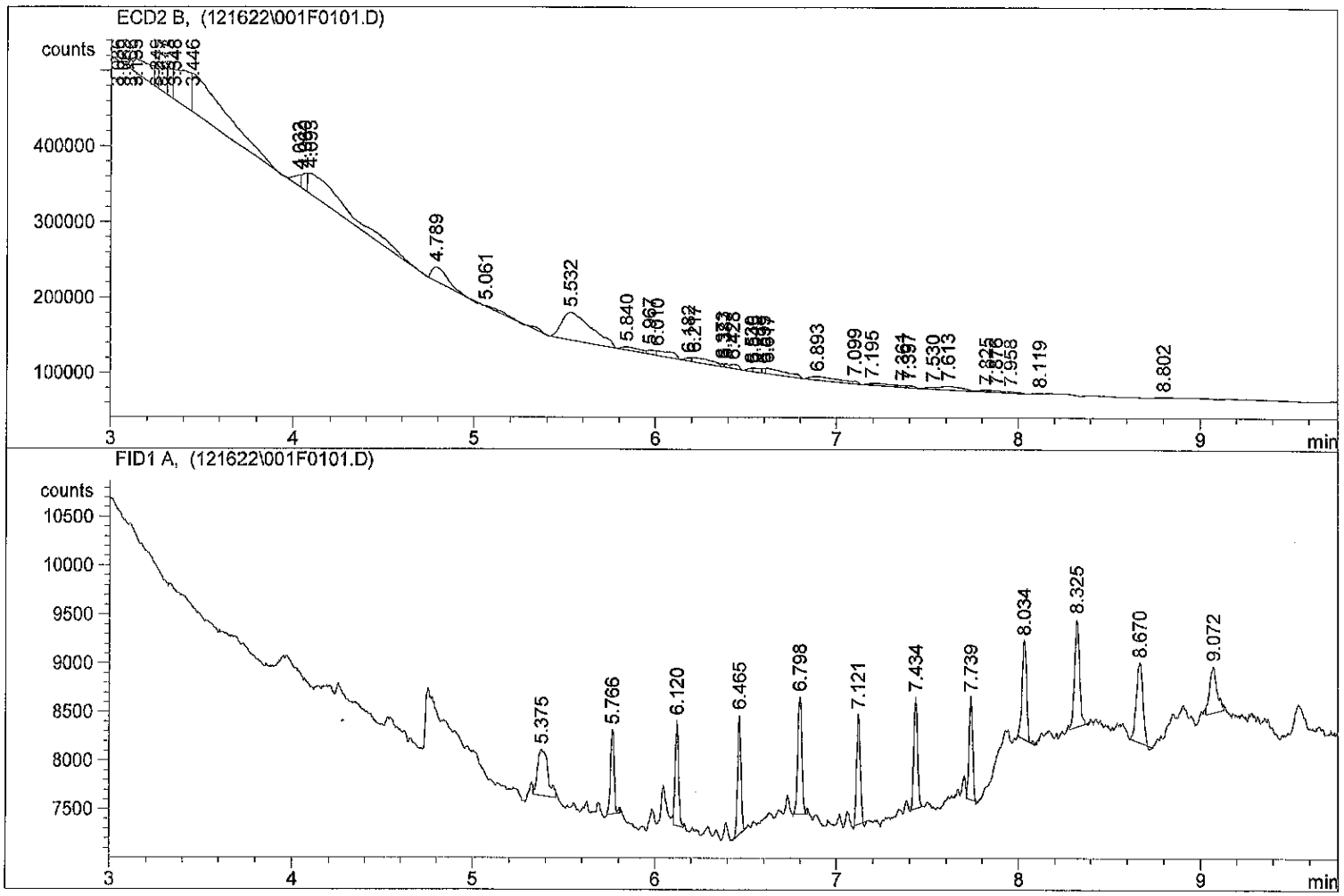
Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch BKL0490

Total Solids Batch: BKL0485 Work Order(s): 22L0246 01-20

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= #1,#7,#8,#9,14,14,15,16,17,18,19, 20	SH 12/16/22
☐ Standing Water Decanted (Not shared)=	
☐ Standing Water Homogenized (Shared samples)=	
☒ Clay/Clumps (Difficult to homogenize)= #2,#3,#4,#5,#6,11,12,13	SH 12/16/22
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	12/16/22 SH
☒ Multiple Jars Y / (N)	SH 12/16/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

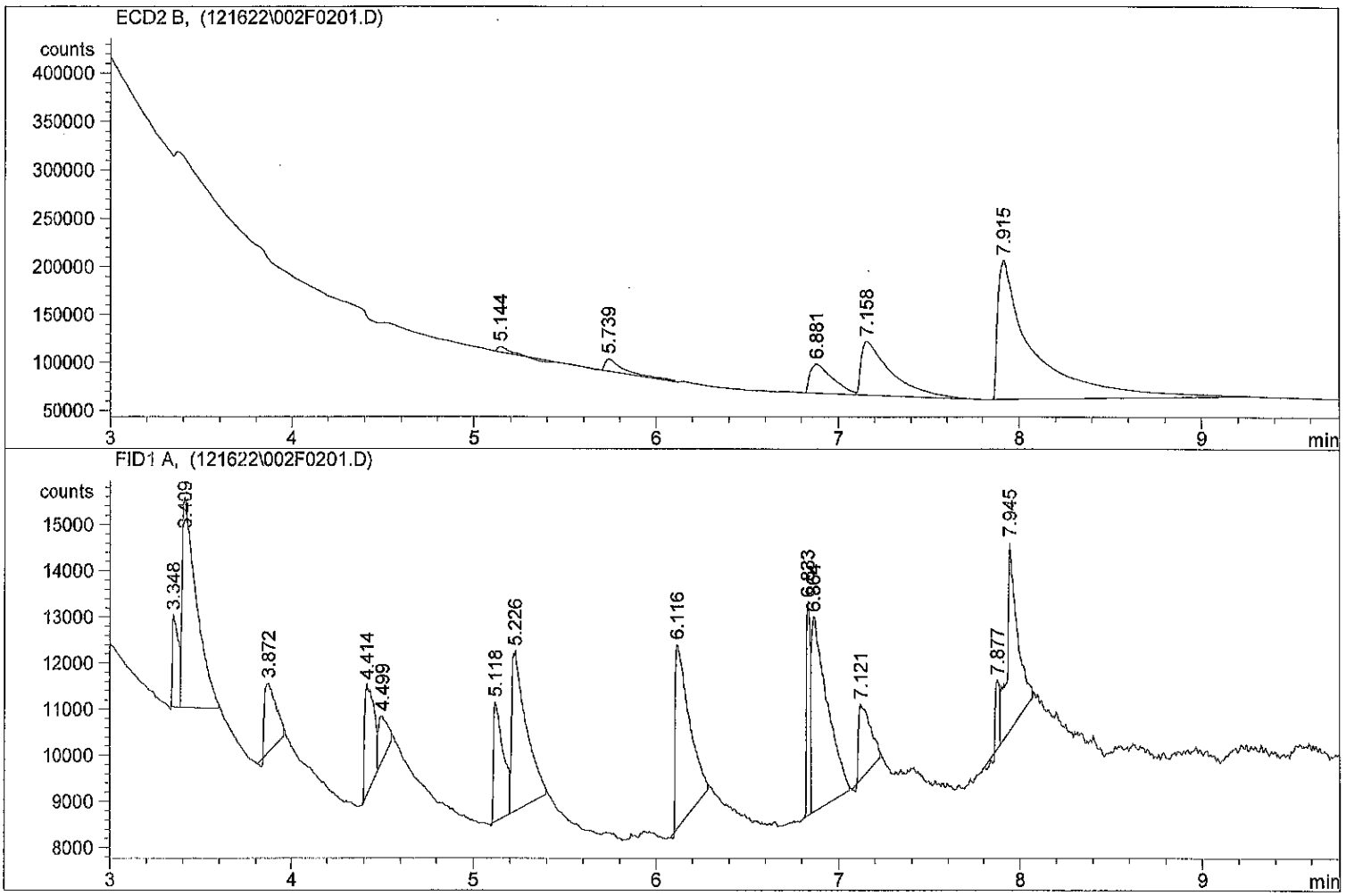
Injection Date	: 12/16/2022 9:30:35 PM	Seq. Line	: 1
Sample Name	: DCM RINSE	Location	: Vial 1
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121622\002F0201.D Sample Name: PNA STD 10PPM

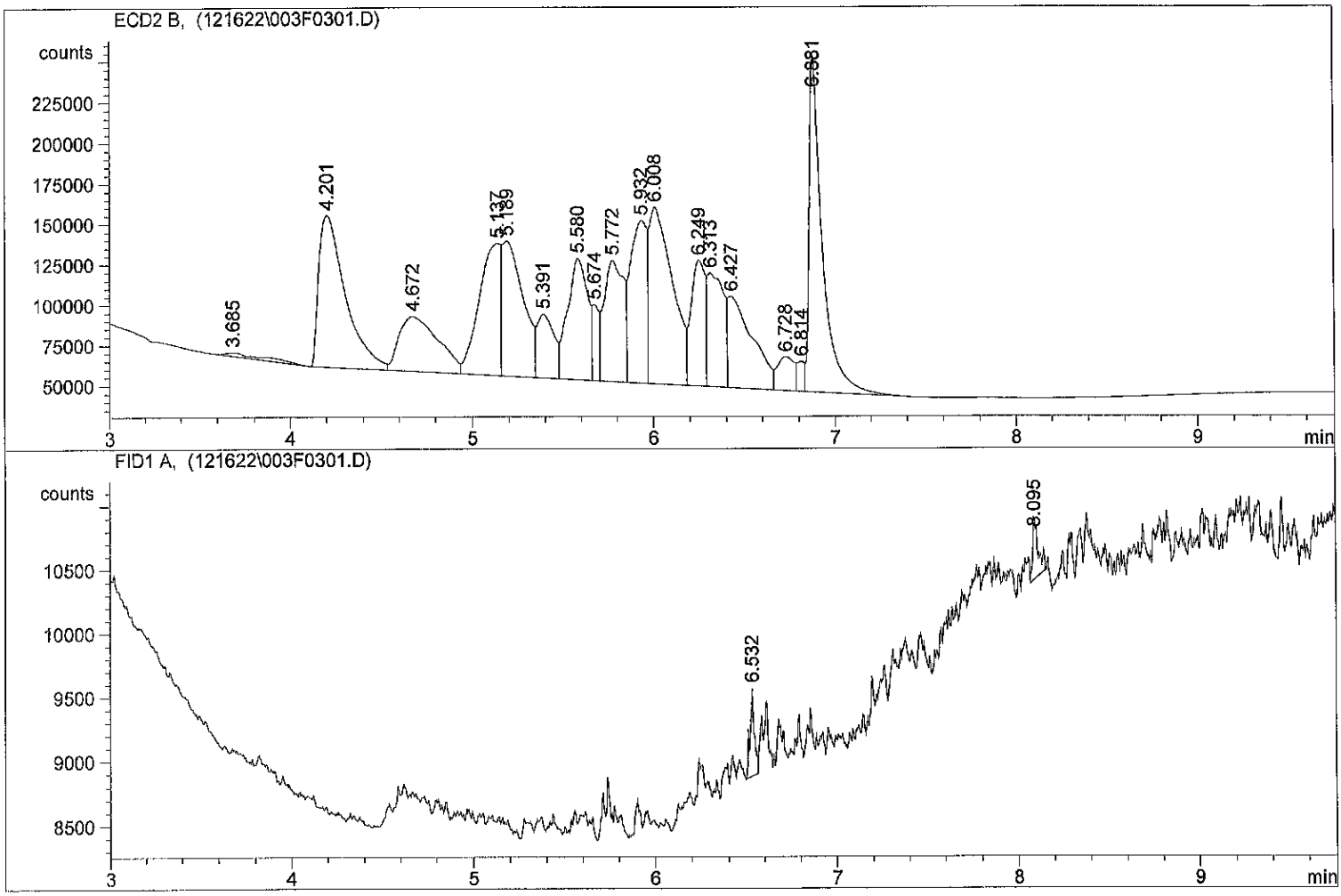
Injection Date	: 12/16/2022 9:44:28 PM	Seq. Line :	2
Sample Name	: PNA STD 10PPM	Location :	Vial 2
Acq. Operator	: SH	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Data File C:\HPCHEM\1\DATA\121622\003F0301.D Sample Name: AR1660 1PPM

Injection Date	: 12/16/2022 9:58:44 PM	Seq. Line :	3
Sample Name	: AR1660 1PPM	Location :	Vial 3
Acq. Operator	: SH	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date   : 12/16/2022 10:13:05 PM        Seq. Line :   4
Sample Name      : 22L0246-01                    Location : Vial 4
Acq. Operator    : SH                               Inj :   1
                                                 Inj Volume : 1 µl
Sequence File    : C:\HPCHEM\1\SEQUENCE\121622.S
Method           : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed     : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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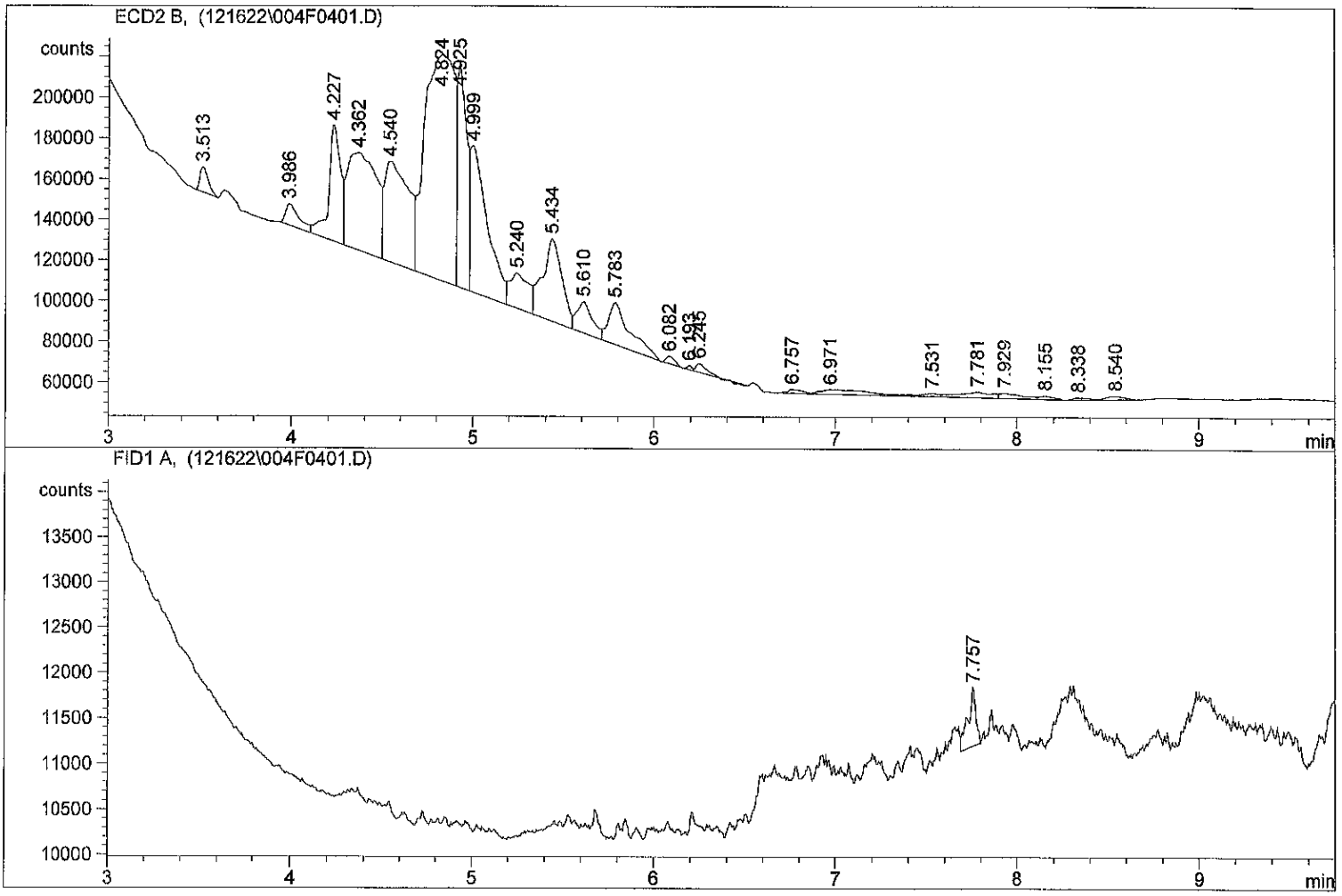
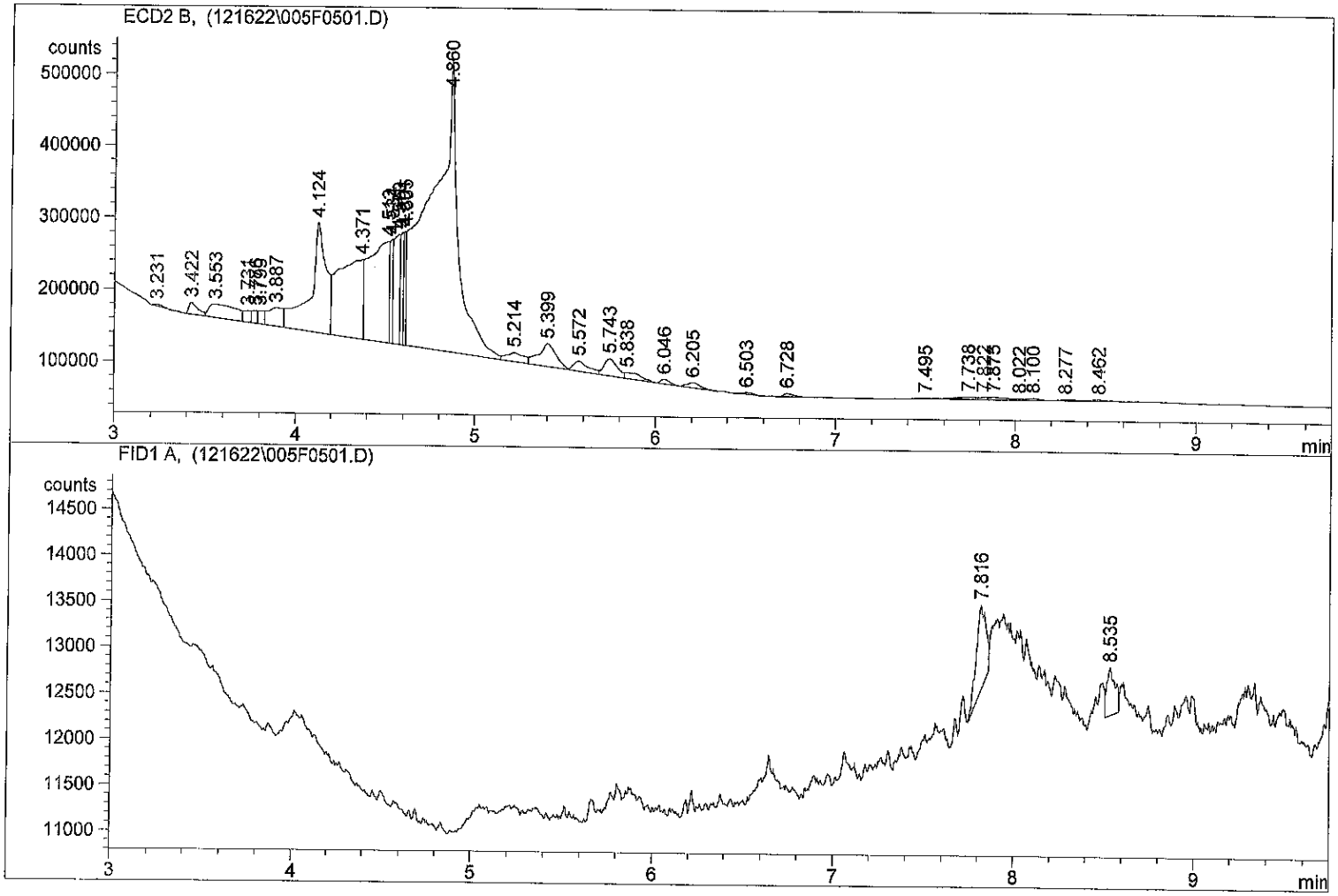


*** End of Report ***

Injection Date : 12/16/2022 10:26:38 PM
Sample Name : 22L0246-02
Acq. Operator : SH

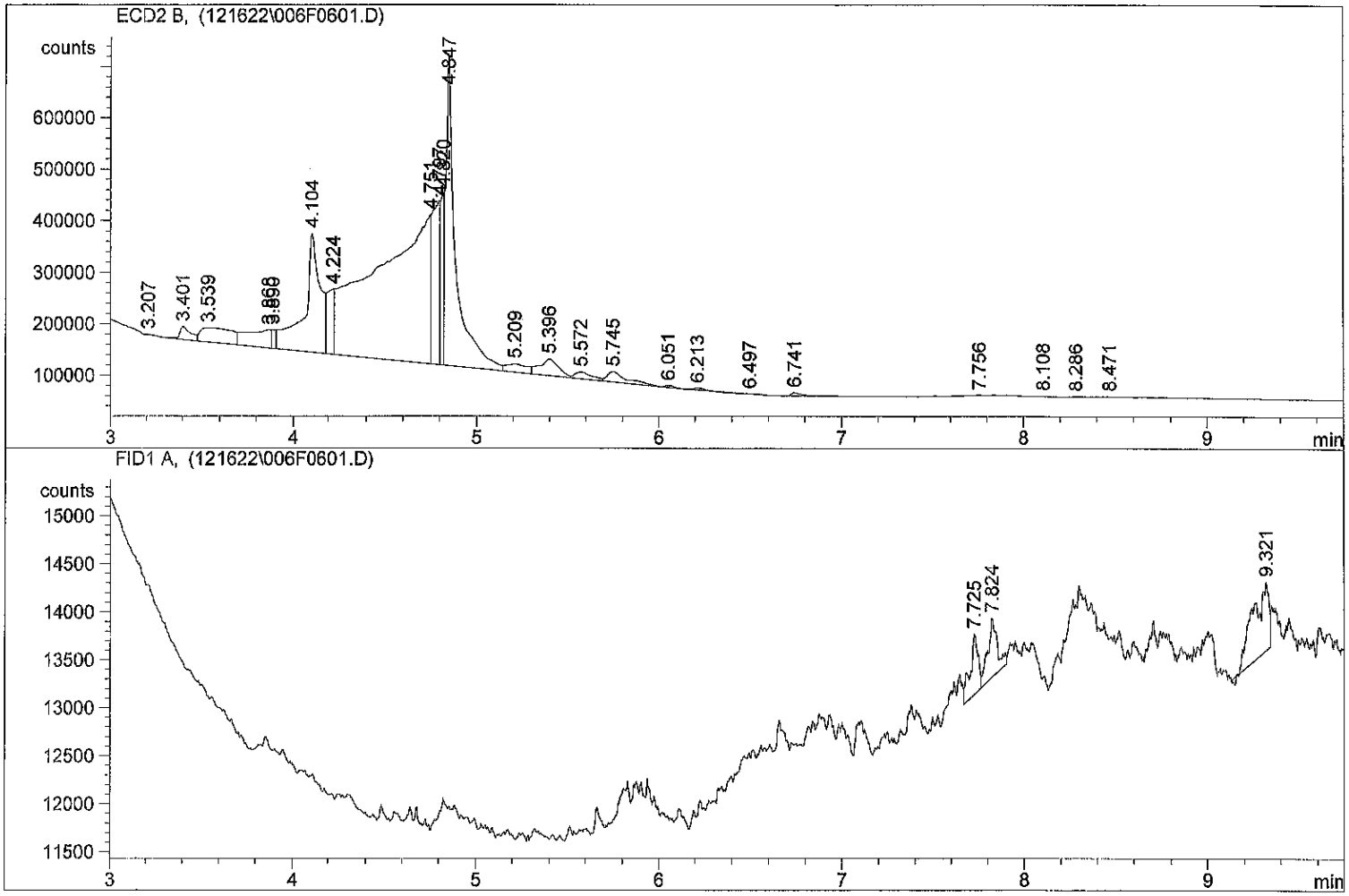
Seq. Line : 5
Location : Vial 5
Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

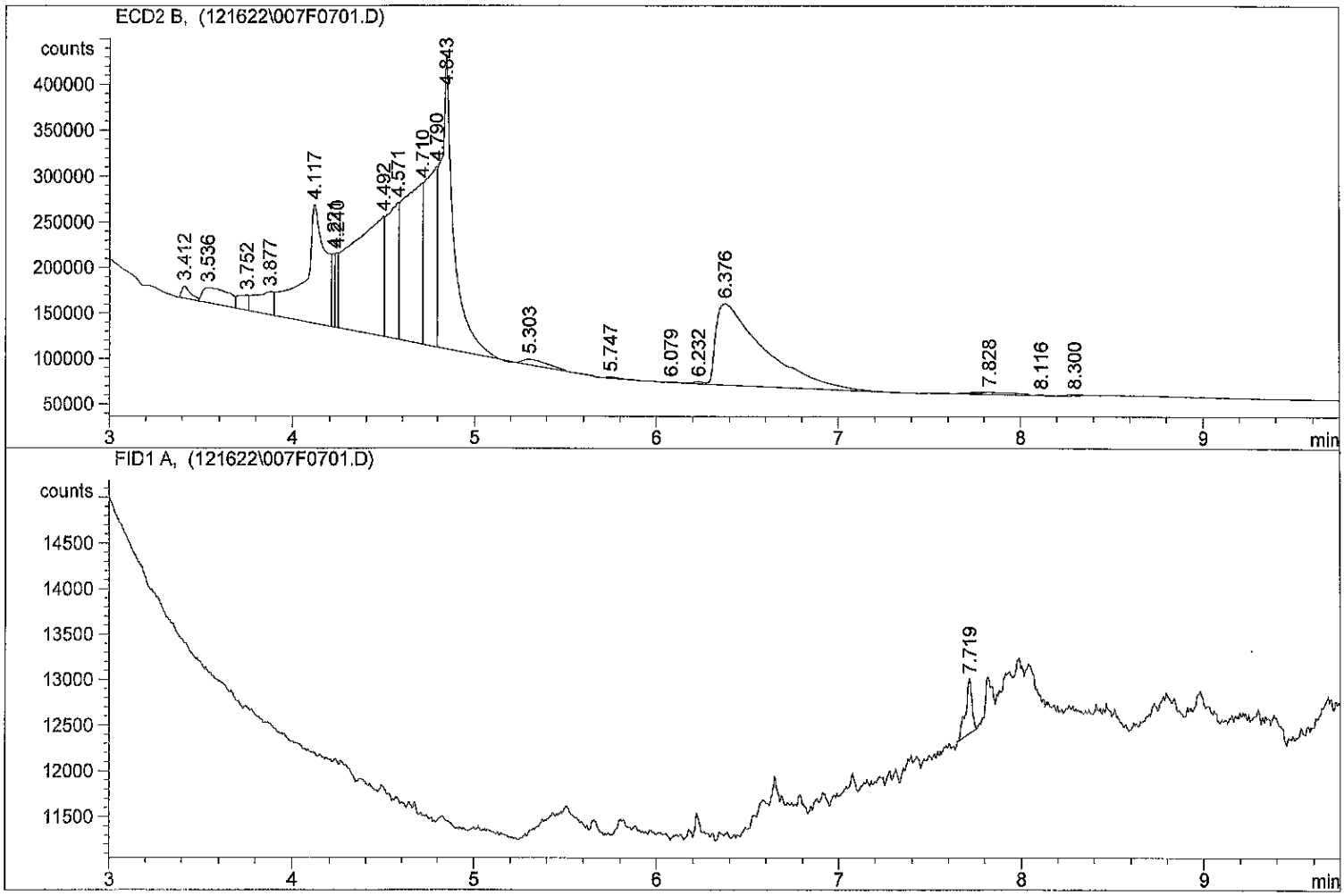
Injection Date	: 12/16/2022 10:41:16 PM	Seq. Line :	6
Sample Name	: 22L0246-03	Location :	Vial 6
Acq. Operator	: SH	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

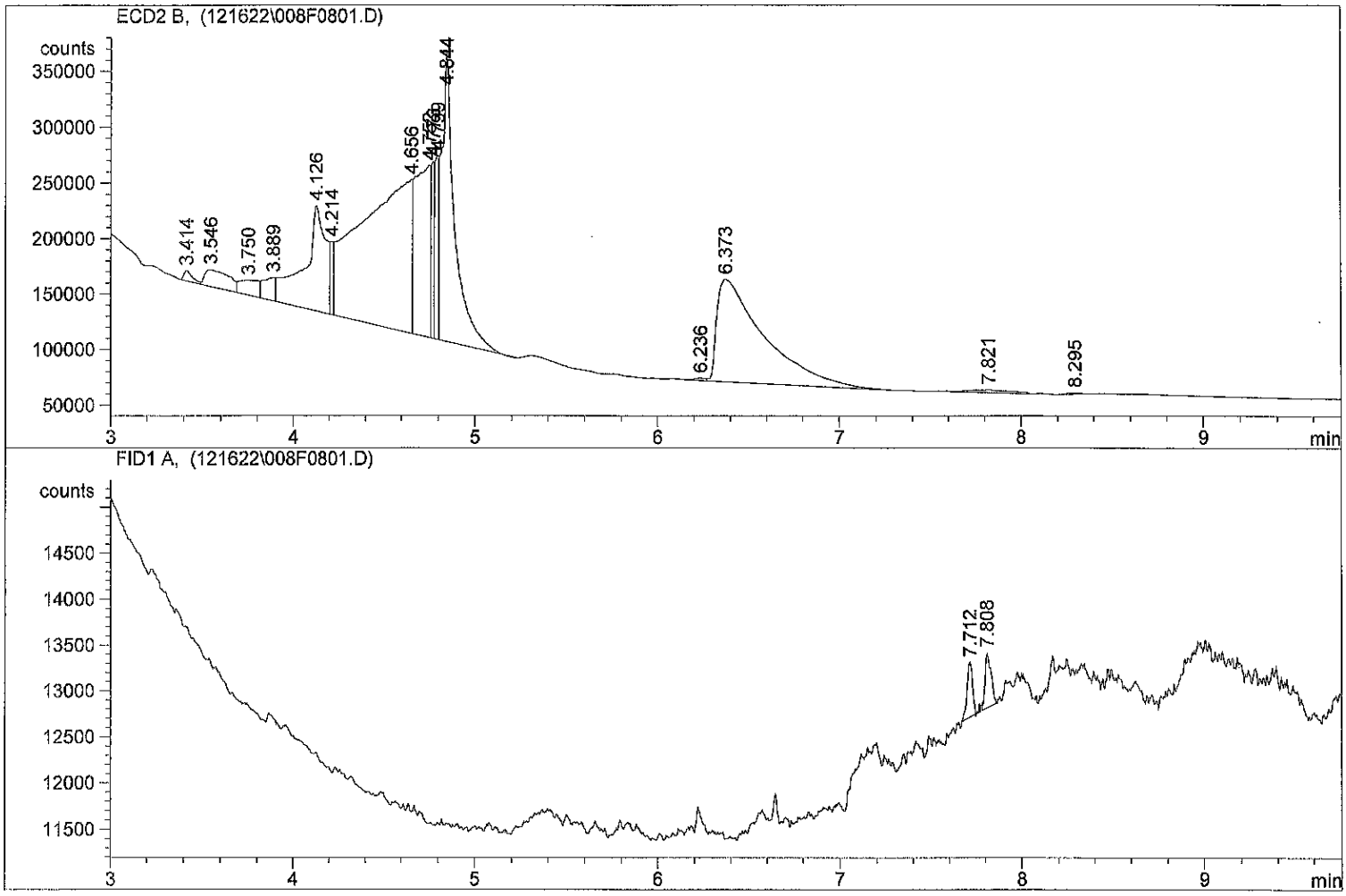
Injection Date : 12/16/2022 10:55:46 PM Seq. Line : 7
Sample Name : 22L0246-04 Location : Vial 7
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

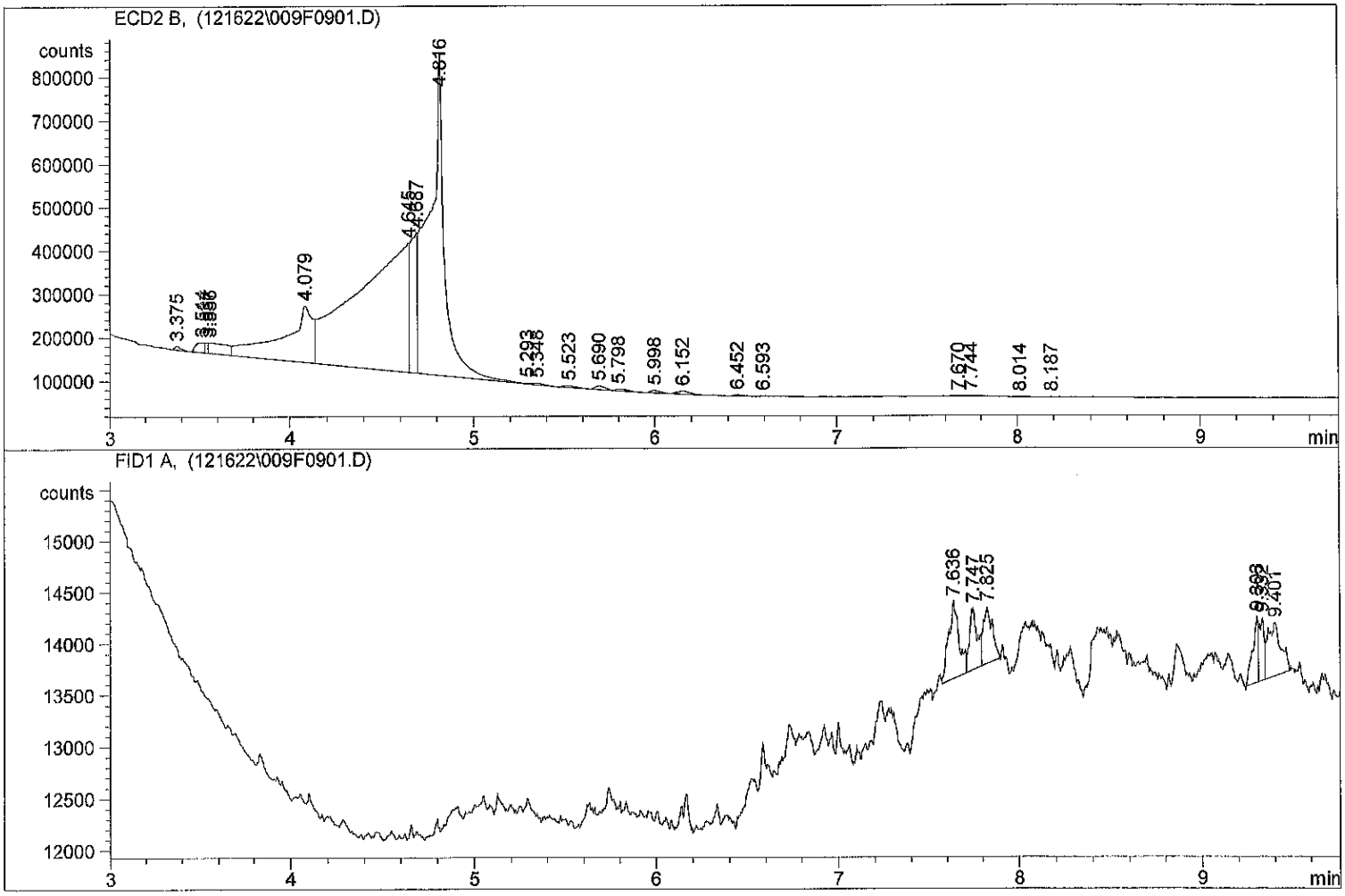
Injection Date	: 12/16/2022 11:10:23 PM	Seq. Line	: 8
Sample Name	: 22L0246-05	Location	: Vial 8
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/16/2022 11:23:42 PM	Seq. Line :	9
Sample Name	: 22L0246-06	Location :	Vial 9
Acq. Operator	: SH	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

SCREEN METHOD



*** End of Report ***

```
Injection Date  : 12/16/2022 11:37:42 PM        Seq. Line :  10
Sample Name     : 22L0246-07                    Location : Vial 10
Acq. Operator   : SH                               Inj :   1
                                                Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121622.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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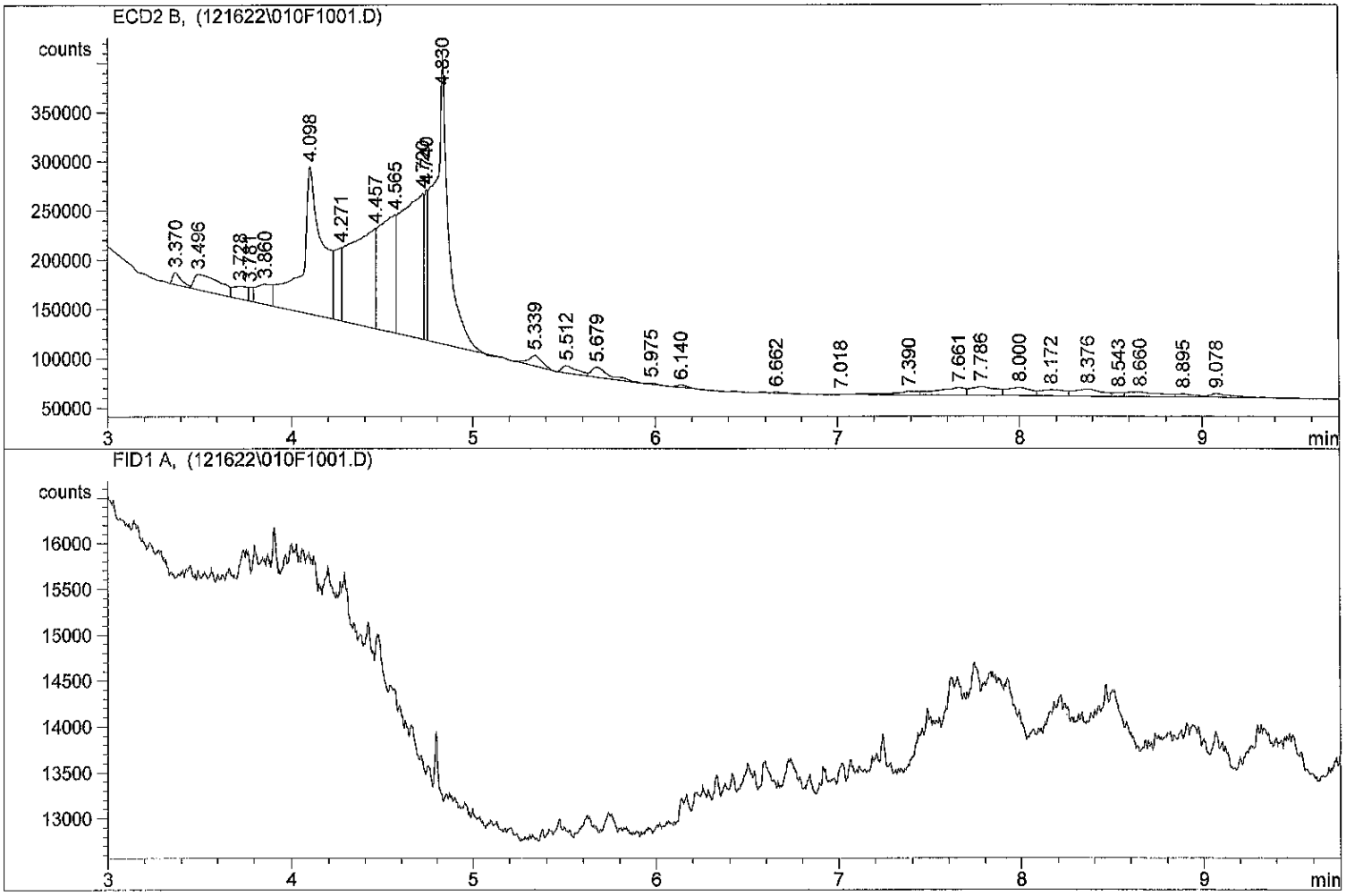
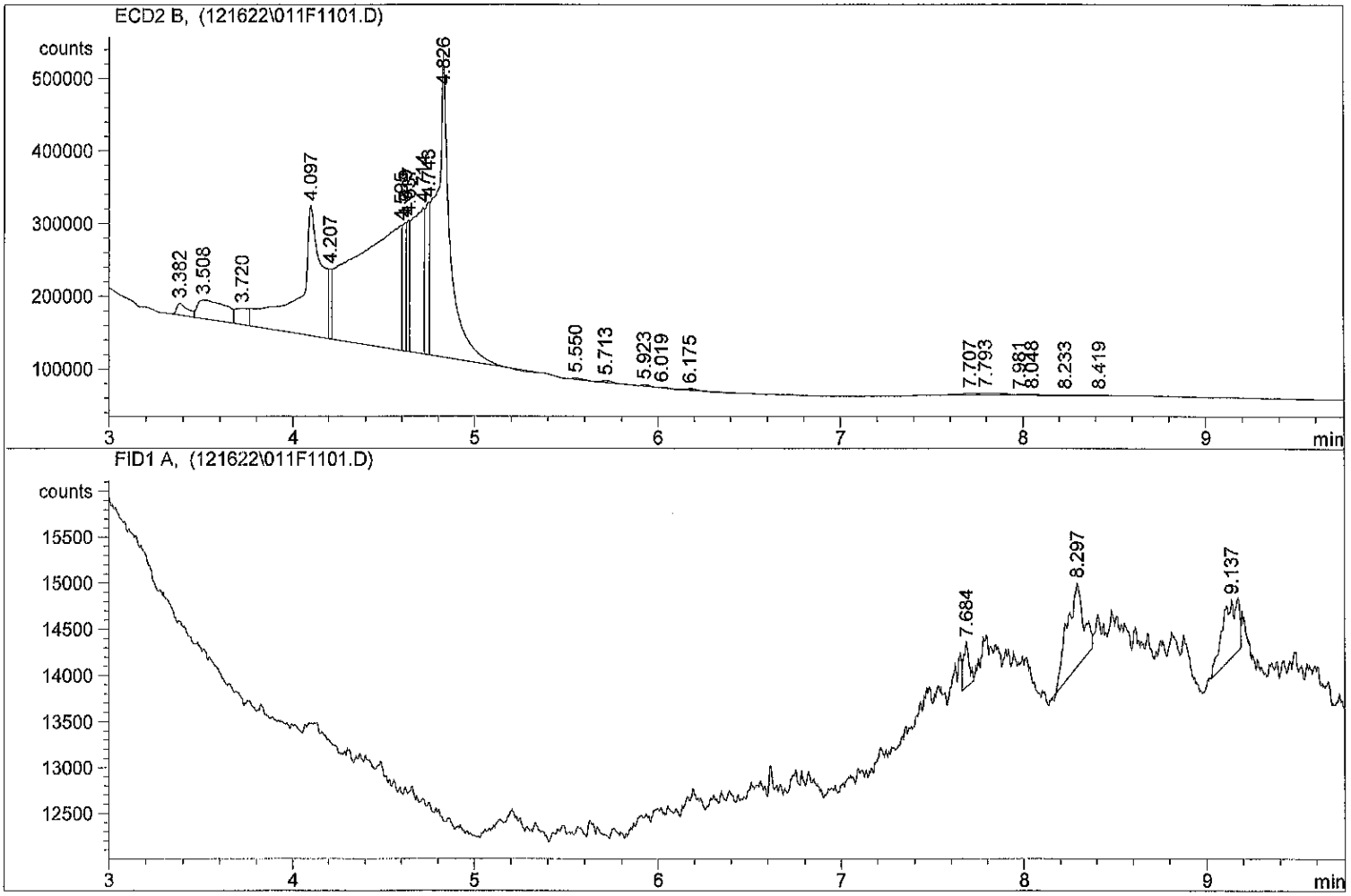


*** End of Report ***

Injection Date	: 12/16/2022 11:52:14 PM	Seq. Line	: 11
Sample Name	: 22L0246-08	Location	: Vial 11
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
==========================================================================
Injection Date  : 12/17/2022 12:06:49 AM        Seq. Line :  12
Sample Name     : 22L0246-09                     Location : Vial 12
Acq. Operator   : SH                                Inj :   1
                                                 Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121622.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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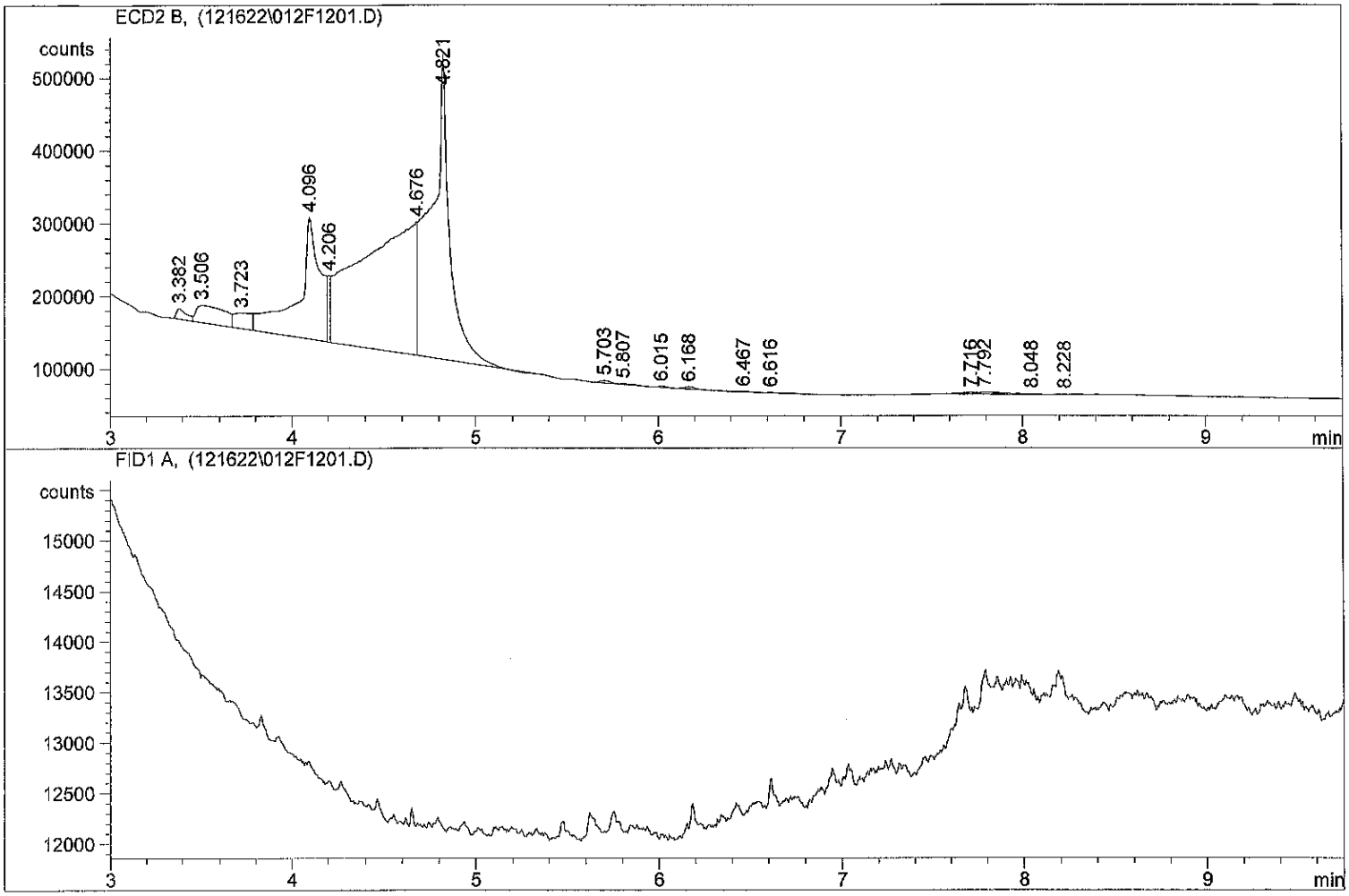

*** End of Report ***

```
==============================================================================
Injection Date  : 12/17/2022 12:21:16 AM        Seq. Line :  13
Sample Name     : 22L0246-10                     Location : Vial 13
Acq. Operator   : SH                                 Inj :  1
                                                 Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121622.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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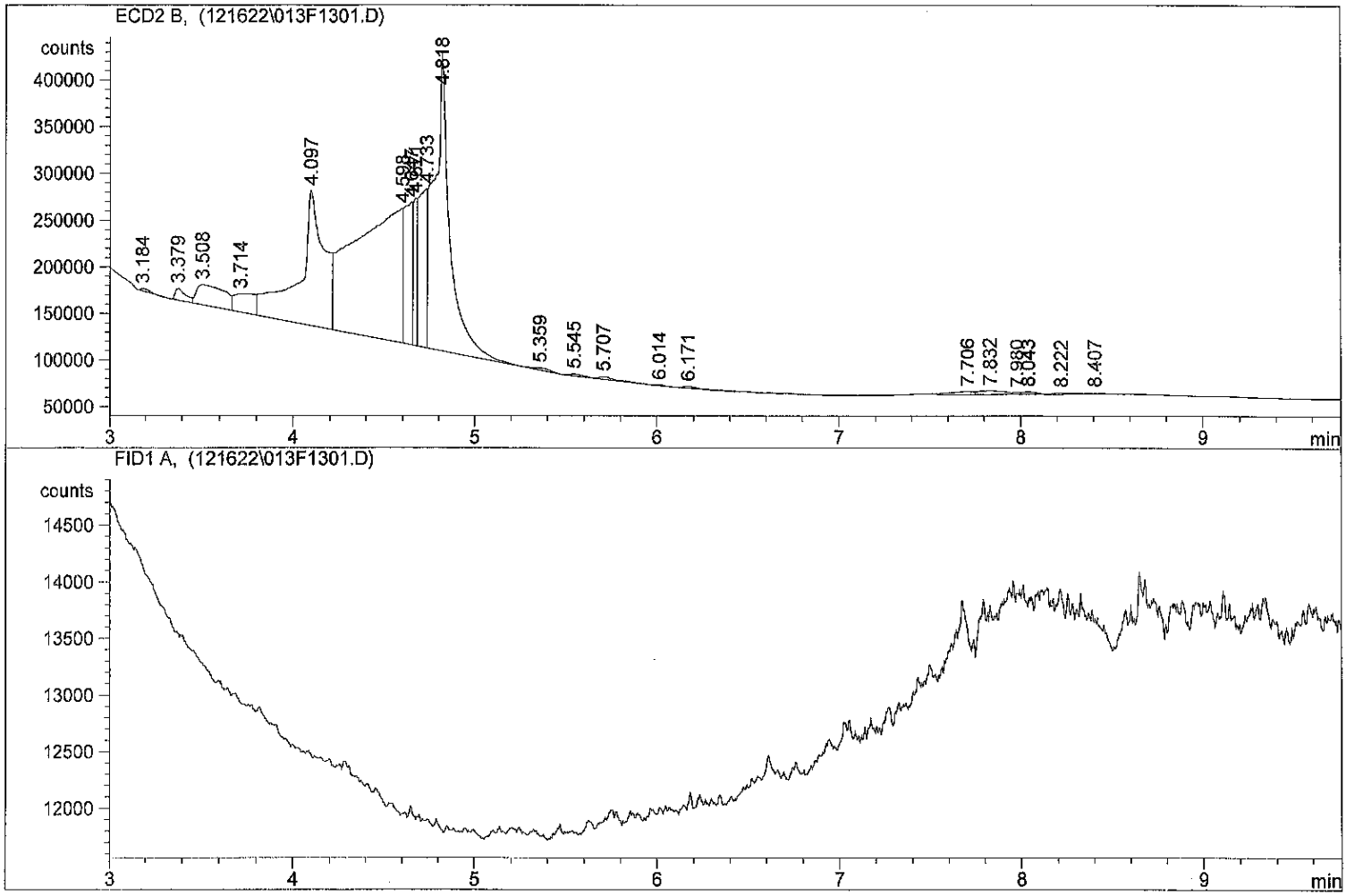


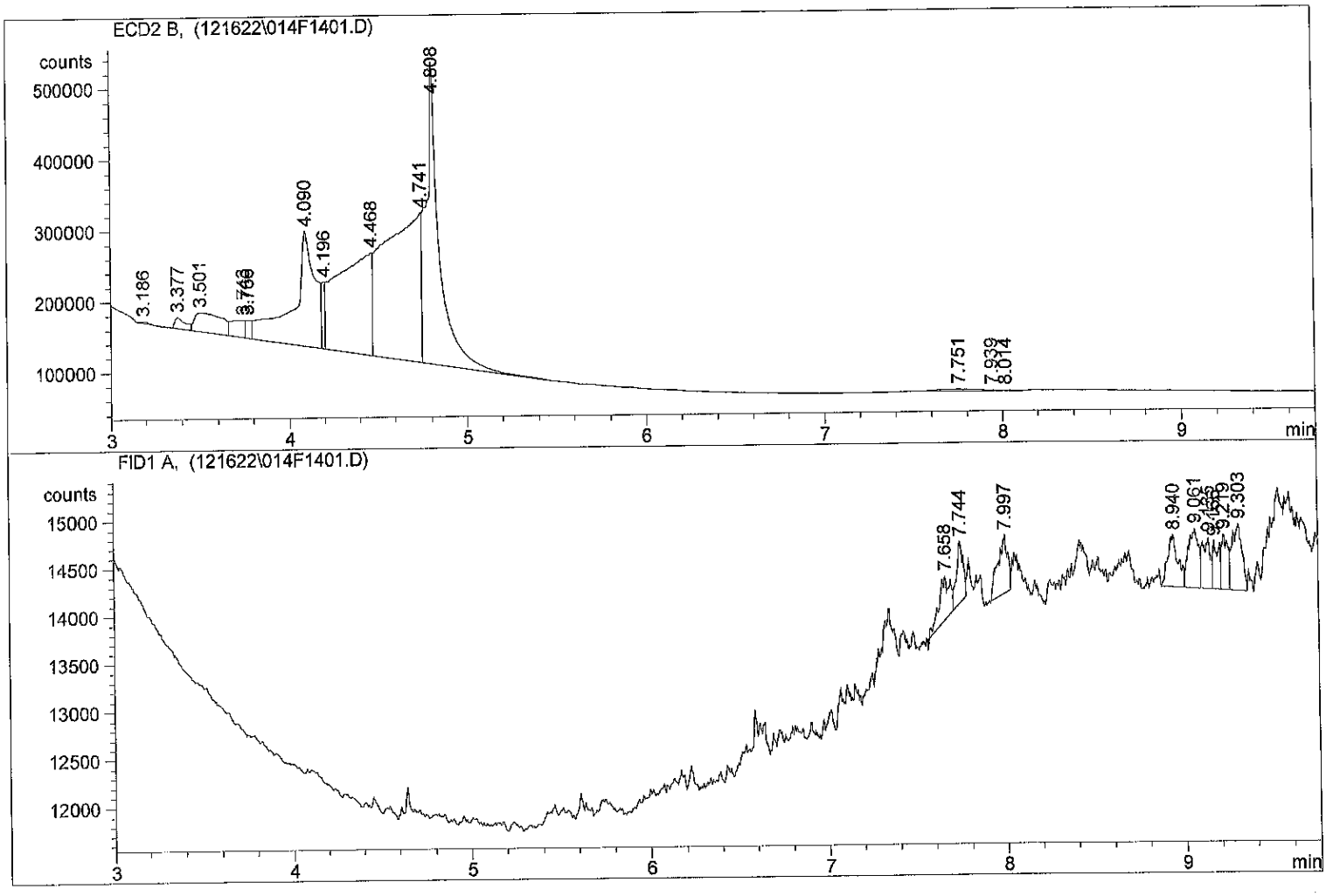
*** End of Report ***

Data File C:\HPCHEM\1\DATA\121622\014F1401.D

Sample Name: 22L0246-11

Injection Date	: 12/17/2022 12:35:55 AM	Seq. Line	: 14
Sample Name	: 22L0246-11	Location	: Vial 14
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		

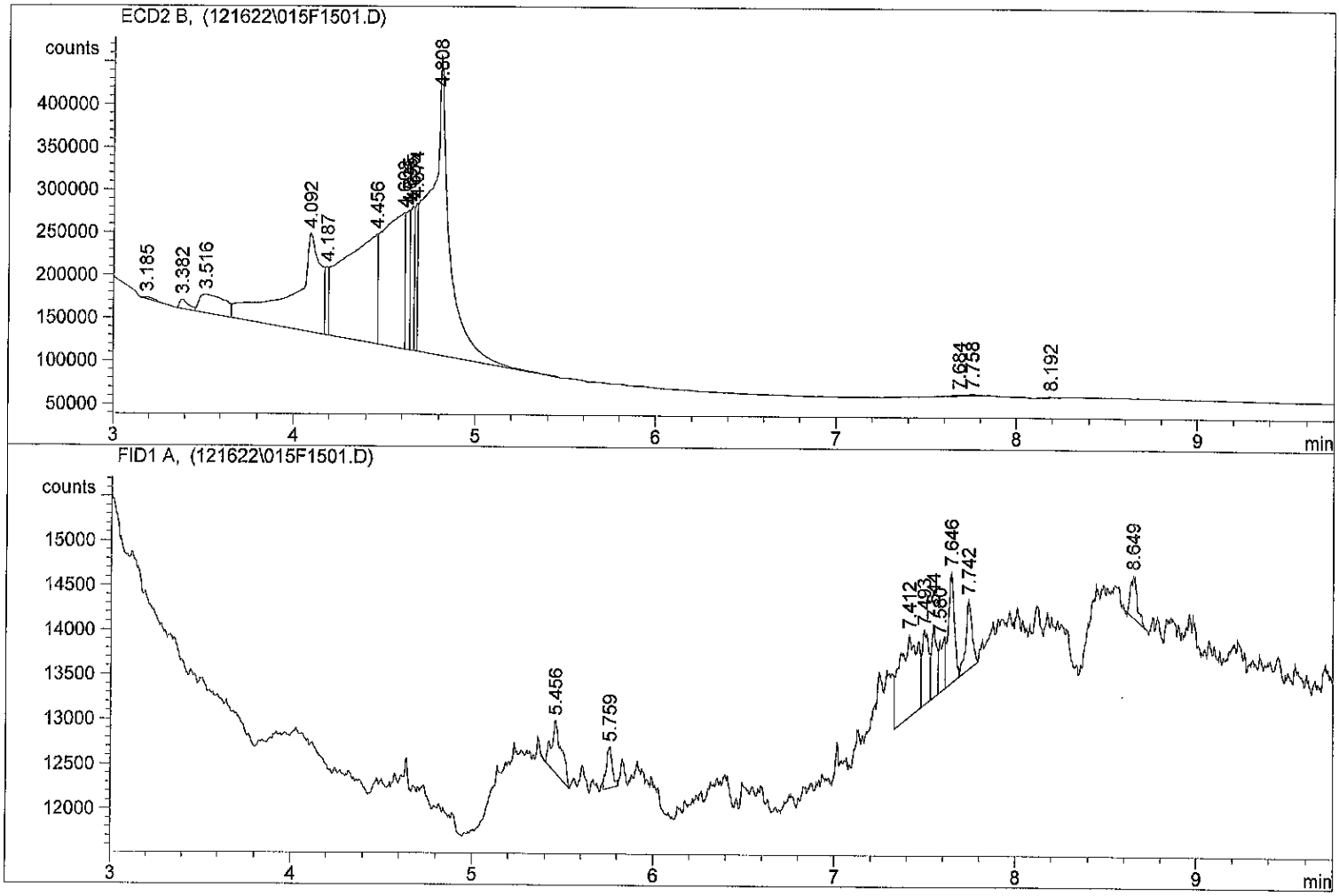
SCREEN METHOD



*** End of Report ***

Injection Date : 12/17/2022 12:50:24 AM Seq. Line : 15
Sample Name : 22L0246-12 Location : Vial 15
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

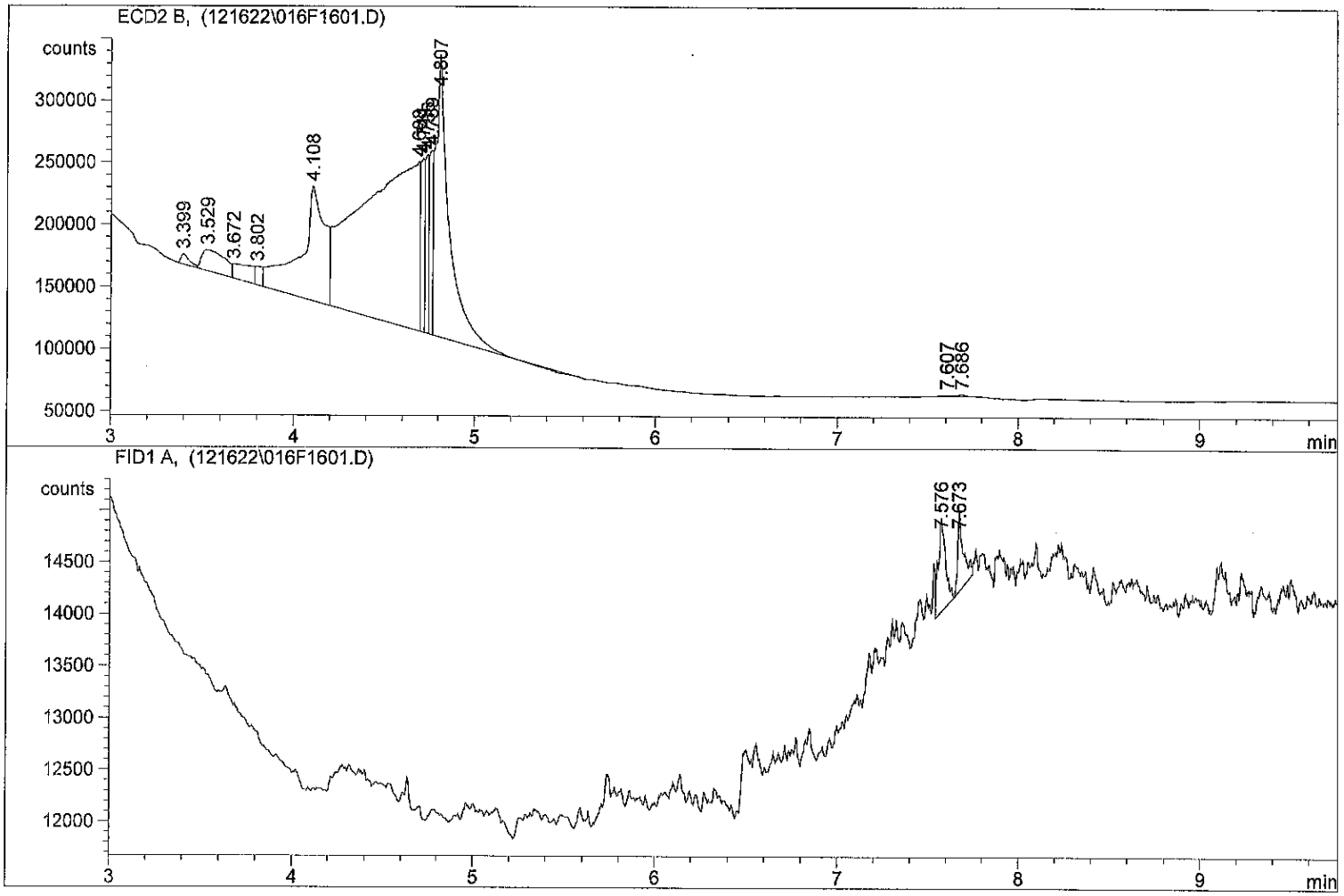
Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

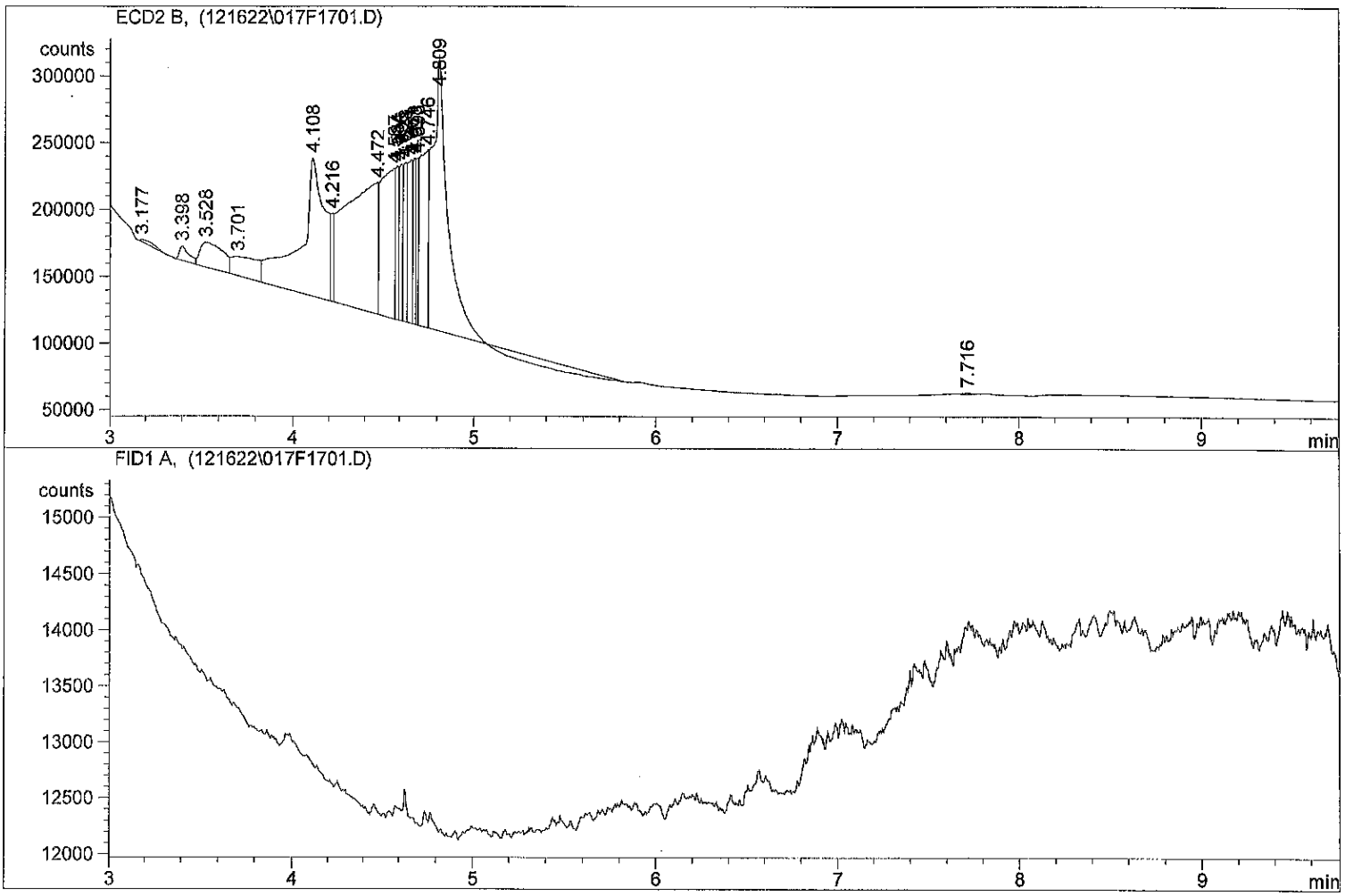
Injection Date : 12/17/2022 1:03:51 AM Seq. Line : 16
Sample Name : 22L0246-13 Location : Vial 16
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

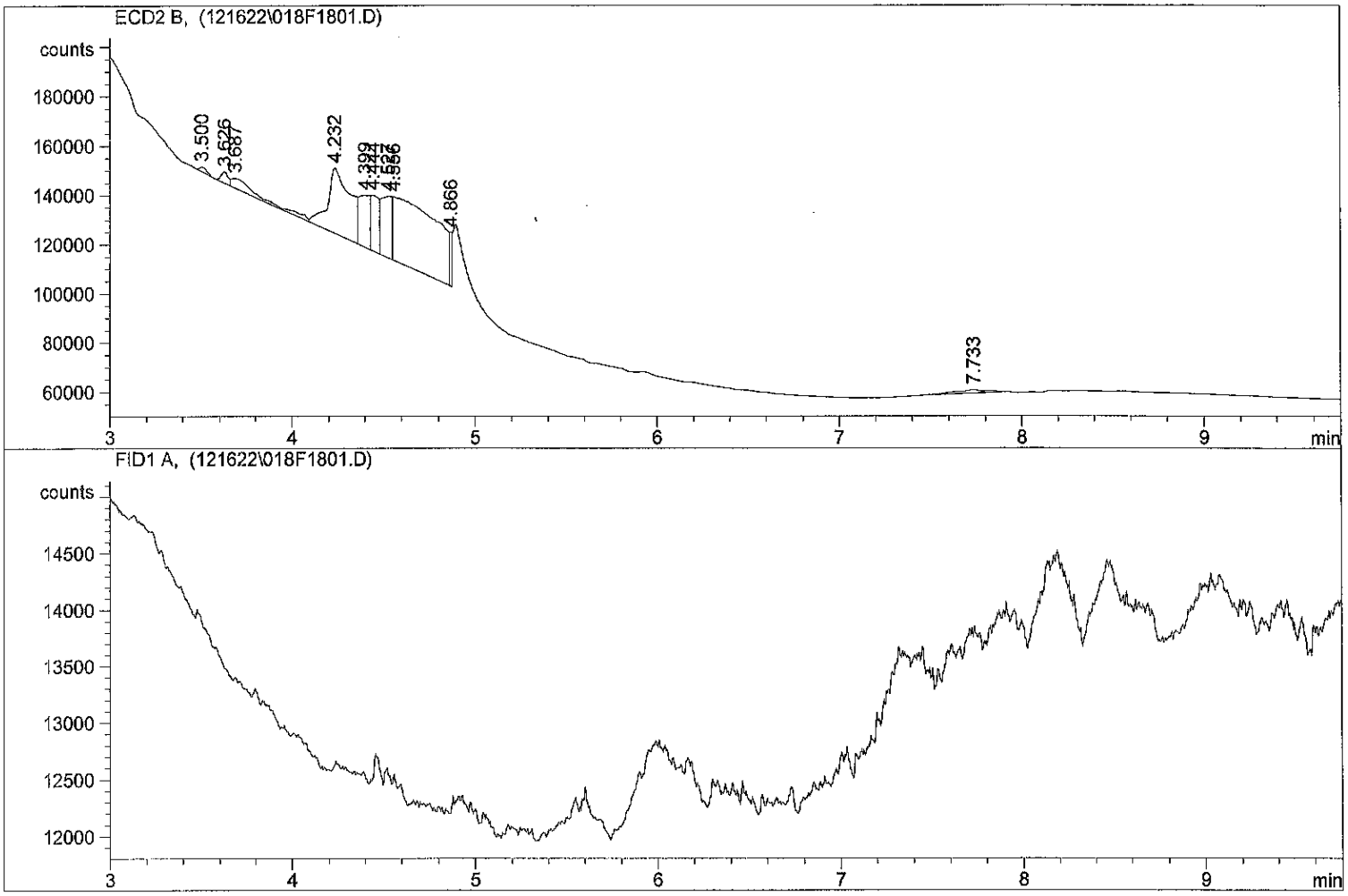
Injection Date	: 12/17/2022 1:17:39 AM	Seq. Line	: 17
Sample Name	: 22L0246-14	Location	: Vial 17
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

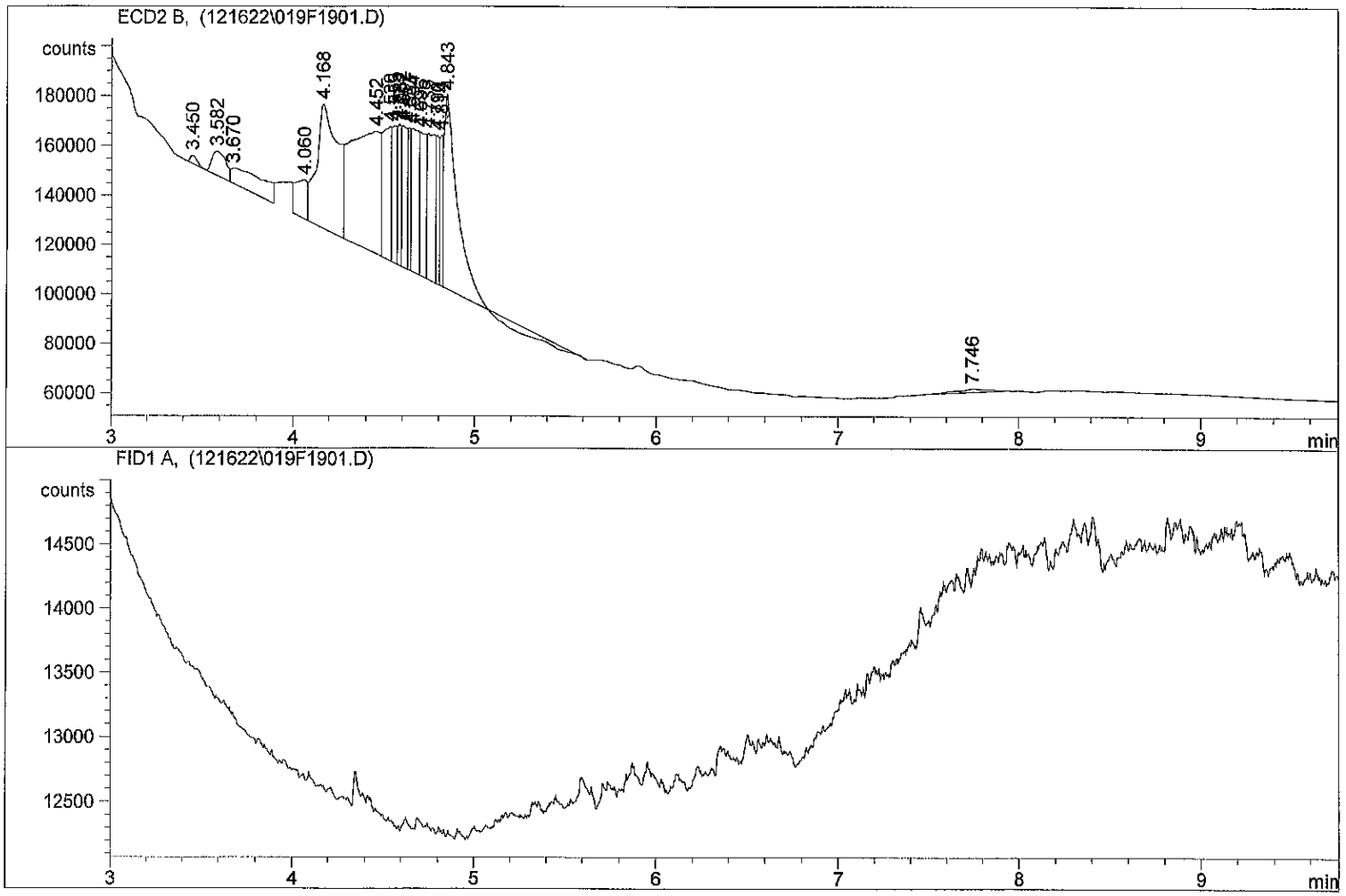
Injection Date : 12/17/2022 1:32:18 AM Seq. Line : 18
Sample Name : 22L0246-15 Location : Vial 18
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

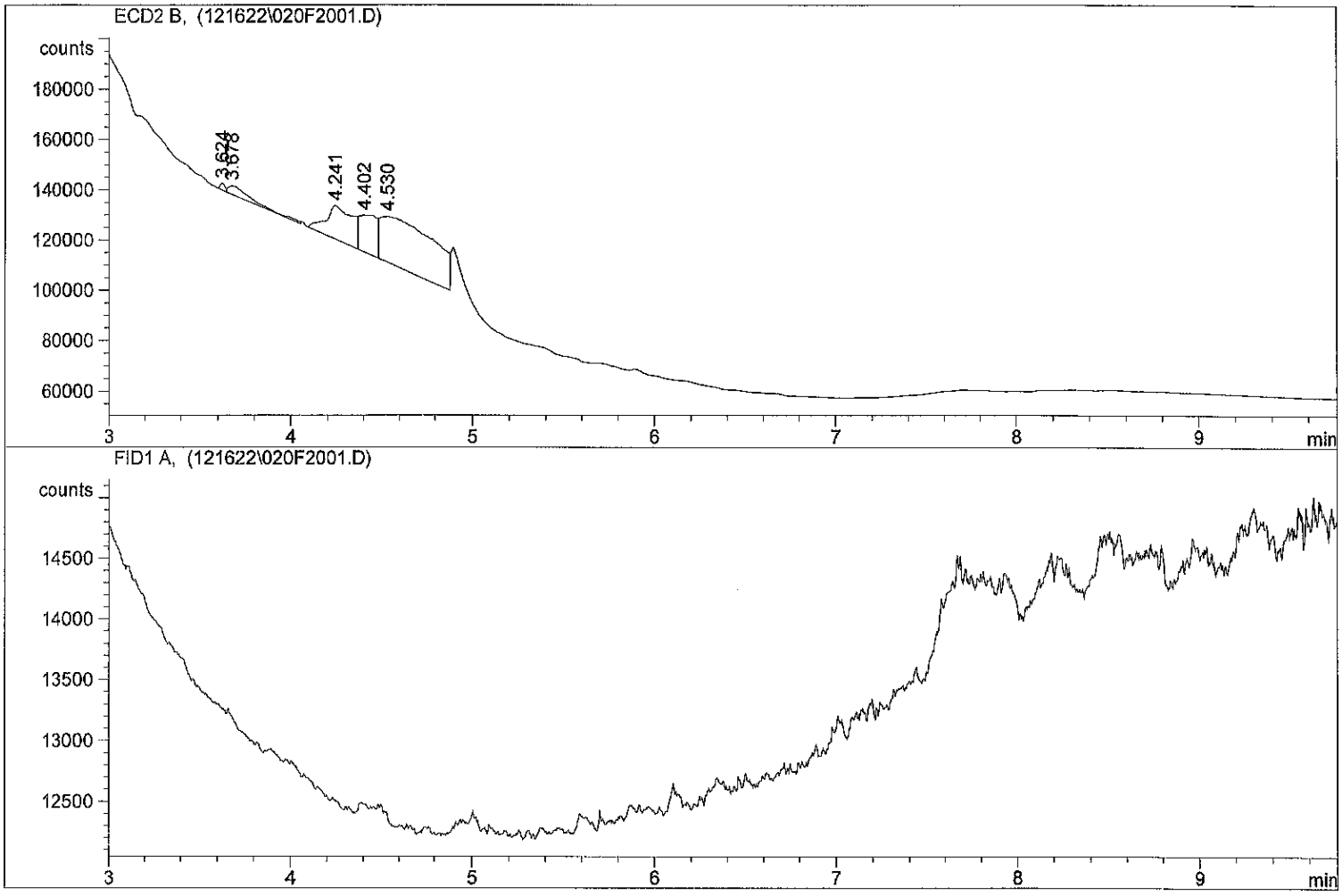
Injection Date	: 12/17/2022 1:46:46 AM	Seq. Line	: 19
Sample Name	: 22L0246-16	Location	: Vial 19
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/17/2022 2:01:23 AM Seq. Line : 20
Sample Name : 22L0246-17 Location : Vial 20
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

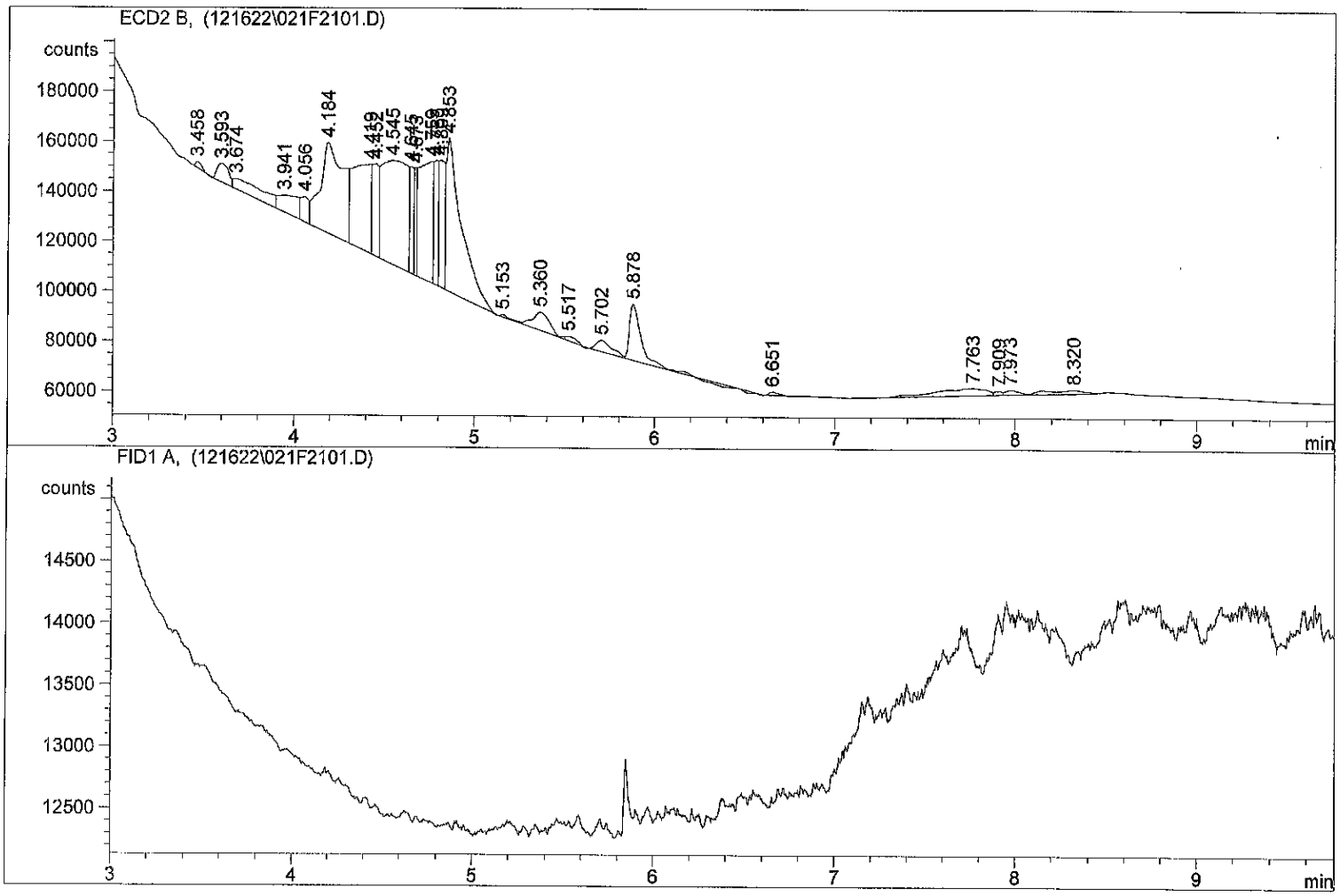
Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

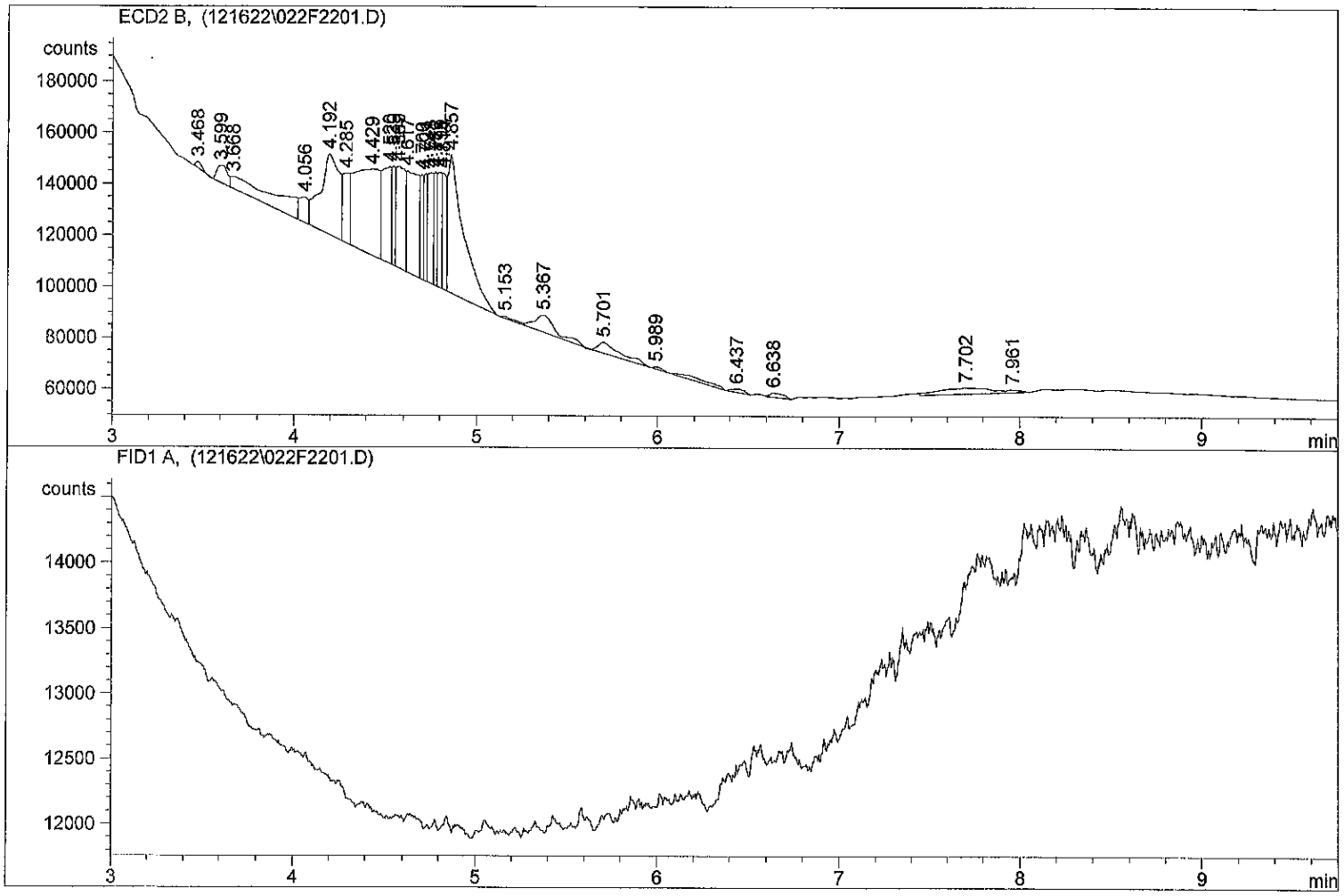
Injection Date : 12/17/2022 2:15:53 AM Seq. Line : 21
Sample Name : 22L0246-18 Location : Vial 21
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

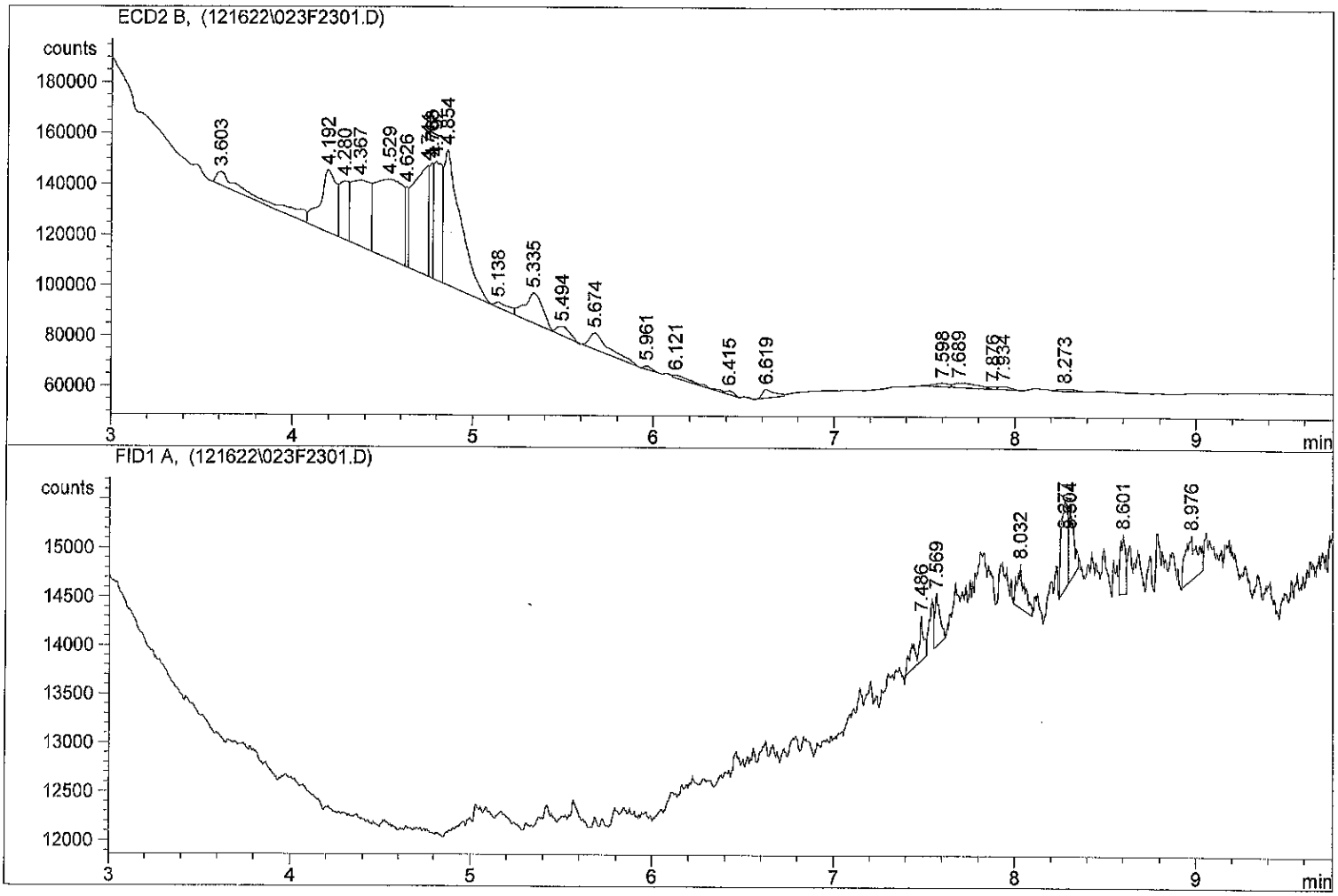
Injection Date	: 12/17/2022 2:30:31 AM	Seq. Line	: 22
Sample Name	: 22L0246-19	Location	: Vial 22
Acq. Operator	: SH	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121622.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date : 12/17/2022 2:43:54 AM Seq. Line : 23
Sample Name : 22L0246-20 Location : Vial 23
Acq. Operator : SH Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121622.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0492 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC779F	22L0246-21	01052363ECD7.D	12/22/22 11:24	
LDW22-SC779G	22L0246-22	01052364ECD7.D	12/22/22 11:24	
LDW22-SC779H	22L0246-23	01042330ECD7.D	12/22/22 11:24	
LDW22-SC779I	22L0246-24	01042331ECD7.D	12/22/22 11:24	
LDW22-SC779J	22L0246-25	01042332ECD7.D	12/22/22 11:24	
LDW22-SC777A	22L0246-26	01042333ECD7.D	12/22/22 11:24	
LDW22-SC777B	22L0246-27	01042334ECD7.D	12/22/22 11:24	
LDW22-SC777C	22L0246-28	01092342ECD7.D	12/22/22 11:24	
LDW22-SC777D	22L0246-29	01092343ECD7.D	12/22/22 11:24	
LDW22-SC777E	22L0246-30	01042337ECD7.D	12/22/22 11:24	
LDW22-SC777F	22L0246-31	01042340ECD7.D	12/22/22 11:24	
LDW22-SC777G	22L0246-32	01042341ECD7.D	12/22/22 11:24	
LDW22-SC777H	22L0246-33	01042342ECD7.D	12/22/22 11:24	
LDW22-SC777I	22L0246-34	01092348ECD7.D	12/22/22 11:24	
LDW22-SC759C	22L0246-35	01092346ECD7.D	12/22/22 11:24	
LDW22-SC759D	22L0246-36	01092347ECD7.D	12/22/22 11:24	
LDW22-SC759E	22L0246-37	01042346ECD7.D	12/22/22 11:24	
LDW22-SC759F	22L0246-38	01042347ECD7.D	12/22/22 11:24	
LDW22-SC759G	22L0246-39	01042348ECD7.D	12/22/22 11:24	
LDW22-SC759H	22L0246-40	01042349ECD7.D	12/22/22 11:24	
Blank	BKL0492-BLK1	01042322ECD7.D	12/22/22 11:24	
LCS	BKL0492-BS1	01042323ECD7.D	12/22/22 11:24	
LCS Dup	BKL0492-BSD1	01042324ECD7.D	12/22/22 11:24	
LDW22-SC759E	BKL0492-MS1	01042326ECD7.D	12/22/22 11:24	
LDW22-SC759E	BKL0492-MSD1	01042327ECD7.D	12/22/22 11:24	
Reference	BKL0492-SRM1	01042325ECD7.D	12/22/22 11:24	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0492

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/22/22 **Balance ID:** B14626.14 **Set Up By:** CB 12/19/22

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

The following standards may be missing from this batch!

Designator	Description
QLS 5	QLS Spike

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0246-21 B	60.4	(20.69)	20.72	5mL	5mL	2mL	2.5	1.0	
22L0246-22 B	57.0	(21.94)	21.96	5mL	5mL	2mL	2.5	1.0	
22L0246-23 B	64.1	(19.50)	19.56	5mL	5mL	2mL	2.5	1.0	
22L0246-24 B	61.5	(20.33)	20.39	5mL	5mL	2mL	2.5	1.0	
22L0246-25 B	70.4	(17.75)	17.79	5mL	5mL	2mL	2.5	1.0	
22L0246-26 B	69.9	(17.88)	17.92	5mL	5mL	2mL	2.5	1.0	
22L0246-27 B	61.6	(20.29)	20.29	5mL	5mL	2mL	2.5	1.0	
22L0246-28 B	73.1	(17.11)	17.16	5mL	5mL	2mL	2.5	1.0	
22L0246-29 B	73.2	(17.07)	17.09	5mL	5mL	2mL	2.5	1.0	
22L0246-30 B	68.0	(18.38)	18.41	5mL	5mL	2mL	2.5	1.0	
22L0246-31 B	70.9	(17.64)	17.67	5mL	5mL	2mL	2.5	1.0	
22L0246-32 B	58.6	(21.32)	21.36	5mL	5mL	2mL	2.5	1.0	
22L0246-33 B	64.3	(19.44)	19.49	5mL	5mL	2mL	2.5	1.0	
22L0246-34 B	63.0	(19.85)	19.85	5mL	5mL	2mL	2.5	1.0	
22L0246-35 B	63.1	(19.81)	19.87	5mL	5mL	2mL	2.5	1.0	
22L0246-36 B	64.5	(19.39)	19.42	5mL	5mL	2mL	2.5	1.0	
22L0246-37 B	74.5	(16.78)	16.78	5mL	5mL	2mL	2.5	1.0	
22L0246-38 B	73.5	(17.01)	17.01	5mL	5mL	2mL	2.5	1.0	
22L0246-39 B	69.8	(17.91)	17.97	5mL	5mL	2mL	2.5	1.0	
22L0246-40 B	63.6	(19.66)	19.68	5mL	5mL	2mL	2.5	1.0	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet)	Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0492-BLK1	100.0	(12.50)	12.56	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0492-BS1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0492-BSD1	100.0	(12.50)	12.50	5mL	5mL	2mL	2.5	1.0	(10g Actual Wt.)
BKL0492-MS1	74.5	(16.78)	16.78	5mL	5mL	2mL	2.5	1.0	Use 22L0246-37
BKL0492-MSD1	74.5	(16.78)	16.78	5mL	5mL	2mL	2.5	1.0	Use 22L0246-37
BKL0492-SRM1	100.0	~~(12.50)~~ (2.50)	2.50	5mL	5mL	2mL	2.5	1.0	Use K010815

+1g DI WATER

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0492

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Client ID verified By	Date	Preparation Reviewed By	Date	Extraction Date and Time
YE	12/22/22	TWC	01/03/23	12/22/22 11:24

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0492

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
CT (1) 2 3
12/22/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 (5) 6
CT 12/30/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 (4) 5
LJ 1/3/23
Analyst/Date

TurboVap
Post Cleanups
1 (2) 3 4 5
TWC 01/03/23
Analyst/Date

Vialing
TWC 01/03/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: CT Date: 12/22/22	
Neutral Glass Wool	K010562
1:1 Hexane/Acetone	K011642
Hexane	K011373
Anhydrous Sodium Sulfate	K011562
KD Analyst: CT Date: 12/30/22	
Anhydrous Sodium Sulfate	
Hexane	K011373
Vialing Analyst: LJ/TWC Date: 01/03/23	
Hexane	K011373
Concentrated Sulfuric Acid	K010364
Silica Gel (SPE) Darts	K011573
Sodium Sulfite	K003744
Tetrabutylammonium hydrogensulfate (TBAS)	K011530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K010600 ICal 11752 Exp Date: 1/23/2023	50µL	CT	✓
Spike 20µg/mL	1 K008150 Exp Date: 3/5/2023	63µL	CT	✓

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0492

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

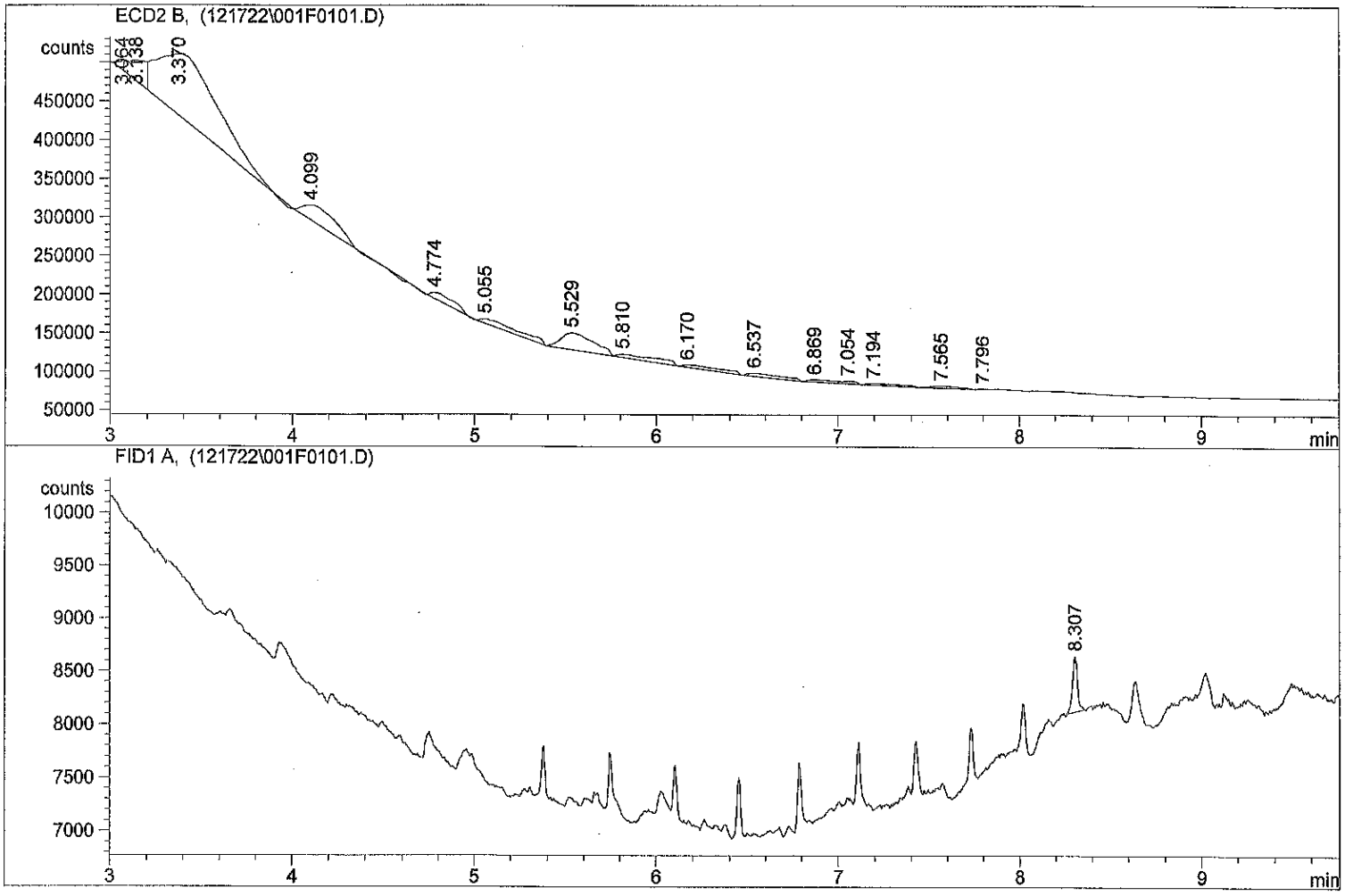
Extraction Parameter: PCB Extraction Batch: BKL0492

Total Solids Batch: BKL0406 Work Order(s): 22L0246 21-40

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 25, 29, 34, 31, 32, 33, 34, 38, 40	Y 12/17/22
☒ Standing Water Decanted (Not shared)= 21, 22, 24, 26, 27, 28, 35, 37, 39.	Y 12/17/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☒ Oily, obvious fuel/sulfur odors= 21, 22, 23, 24, 26, 27, 28, 35, 36, 37, 39. 12/17/22	Y 12/17/22
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☐ Previously Frozen =	
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☒ Other Notes/Comments= (Note problems, concerns, corrective actions).	
246-23 lost ~70µL of 5mL when transferring to scintillation vial post-TurboVap	LJ 1/3/23
☒ Share Samples Y / N	Y 12/17/22
☒ Multiple Jars Y / N	Y 12/17/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

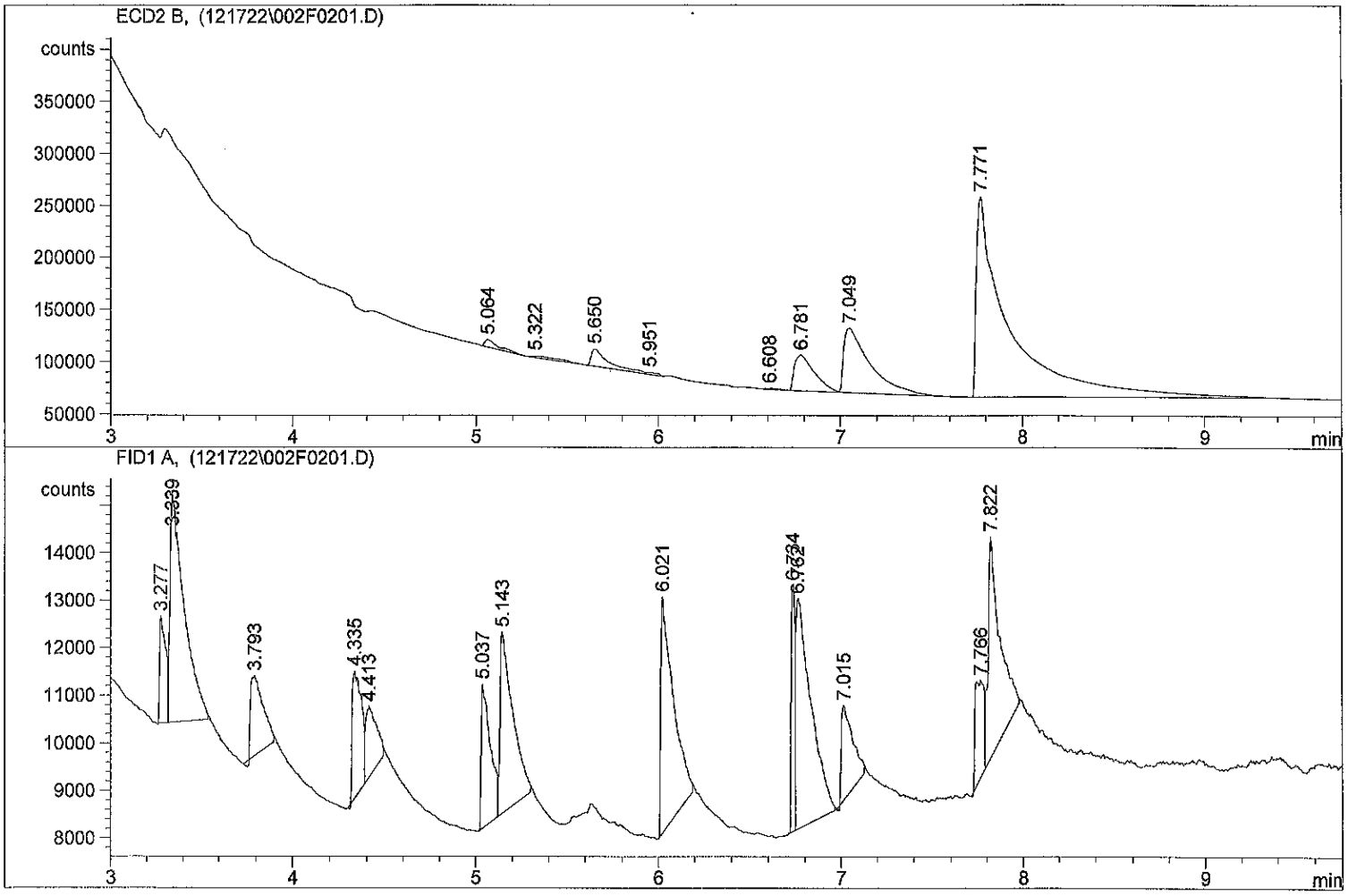
Injection Date : 12/17/2022 3:00:21 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : YL Inj : 1
Inj Volume : 1 µl

Sequence File : C:\HPCHEM\1\SEQUENCE\121722.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



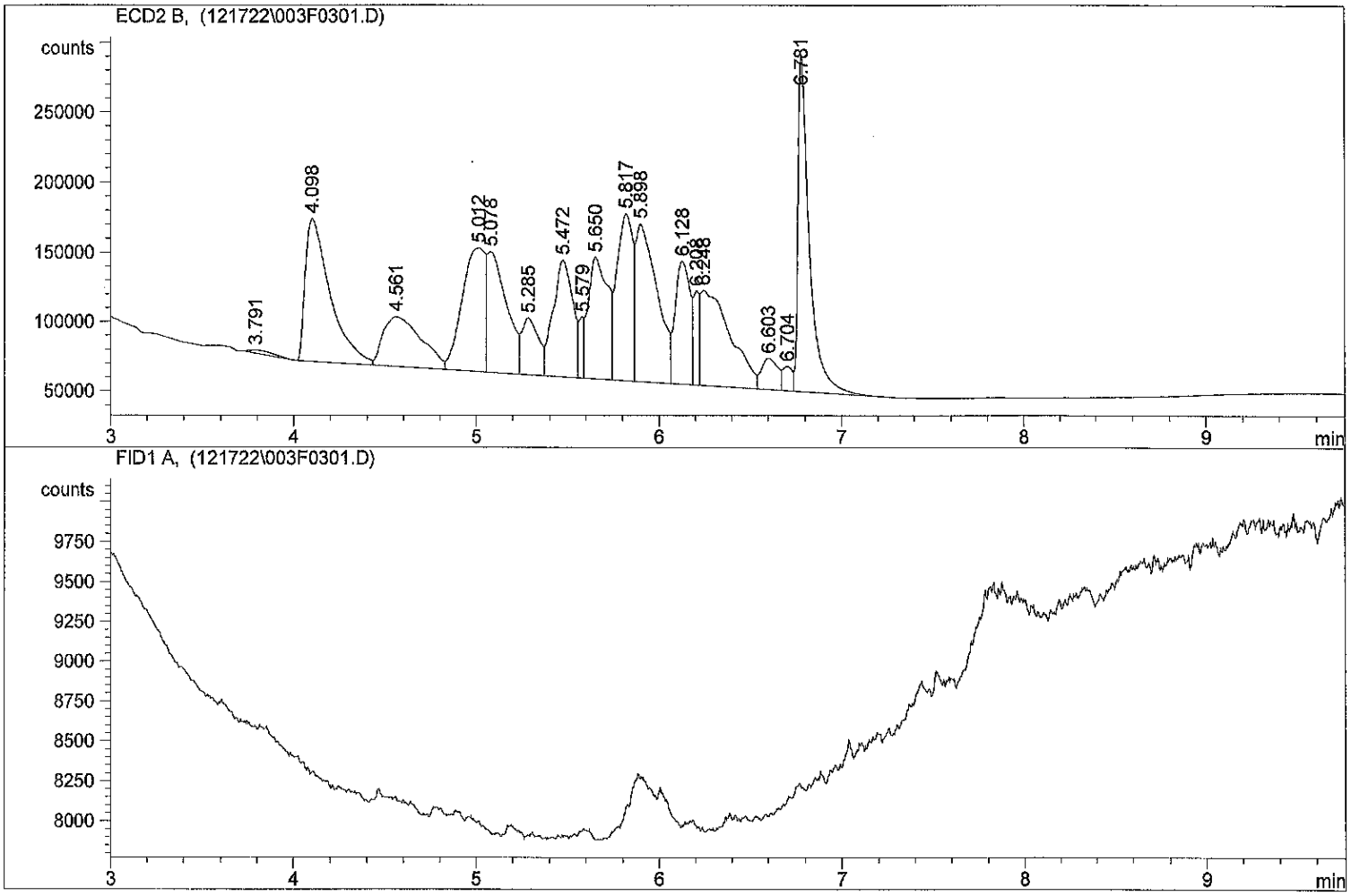
*** End of Report ***

Injection Date	: 12/17/2022 3:14:22 PM	Seq. Line	: 2
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



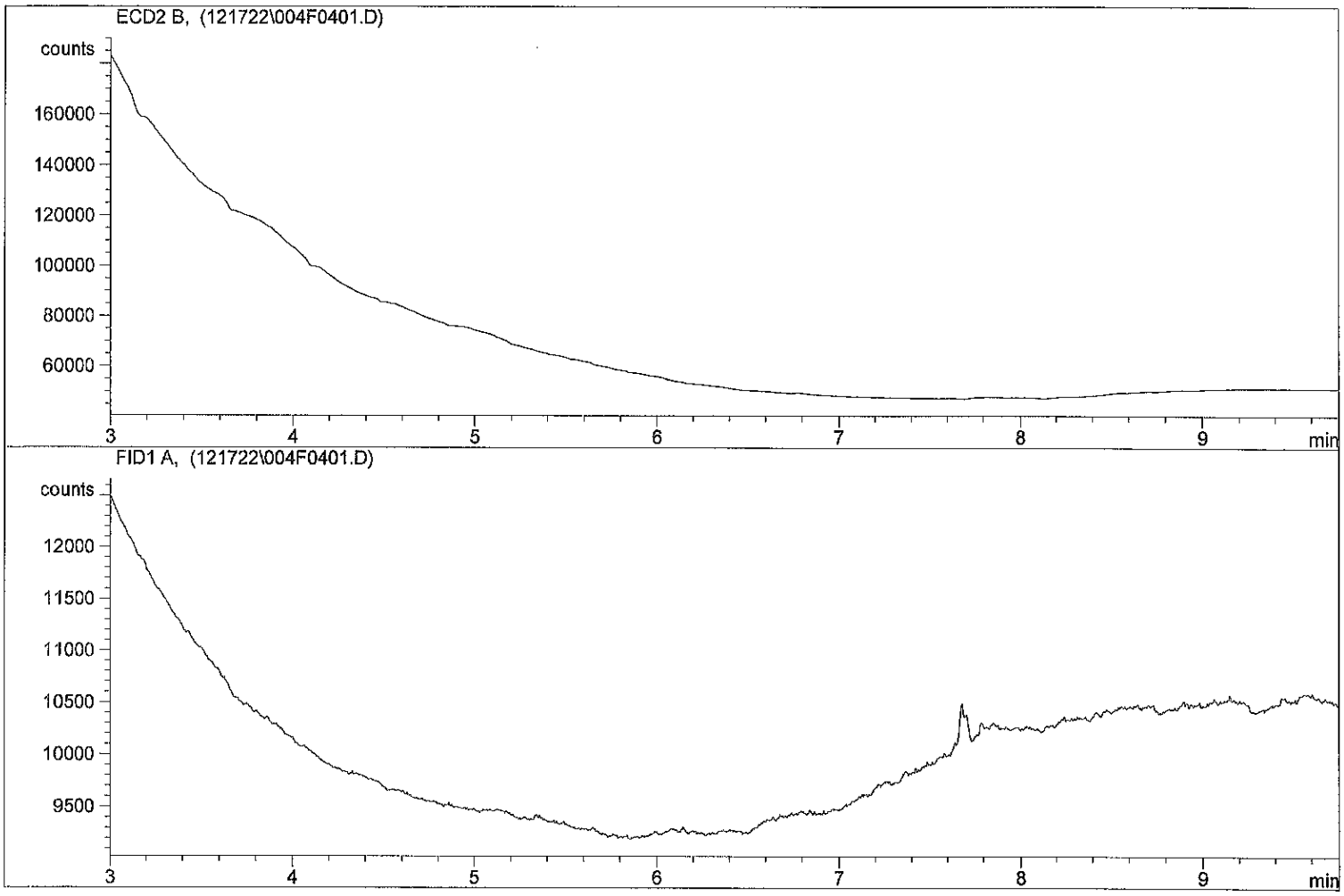
*** End of Report ***

Injection Date	: 12/17/2022 3:27:52 PM	Seq. Line :	3
Sample Name	: AR1660 1PPM	Location :	Vial 3
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/17/2022 3:42:19 PM	Seq. Line :	4
Sample Name	: 22L0246 21	Location :	Vial 4
Acq. Operator	: YL	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/17/2022 3:56:41 PM        Seq. Line :   5
Sample Name     : 22L0246 22                    Location : Vial 5
Acq. Operator   : YL                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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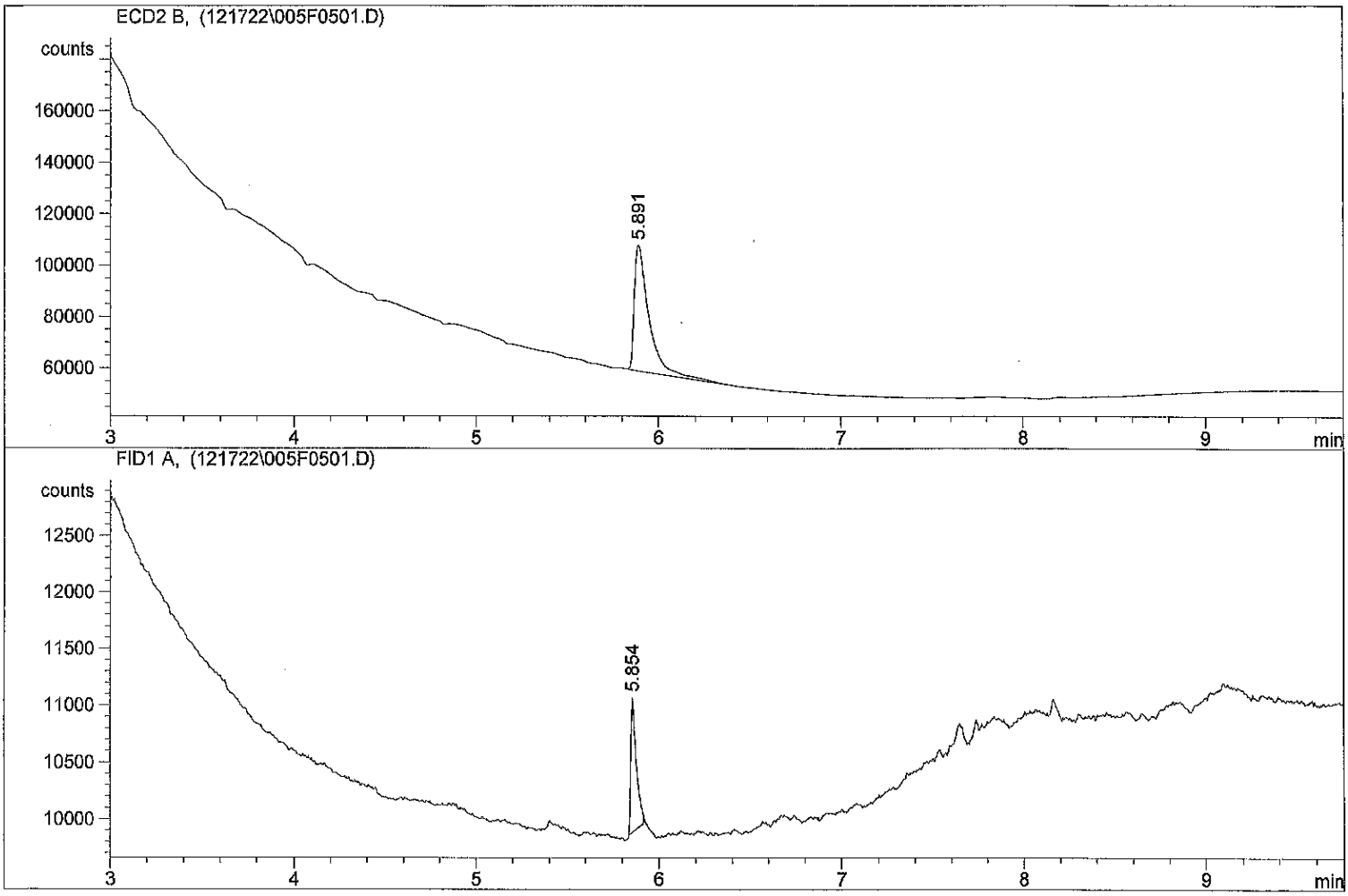
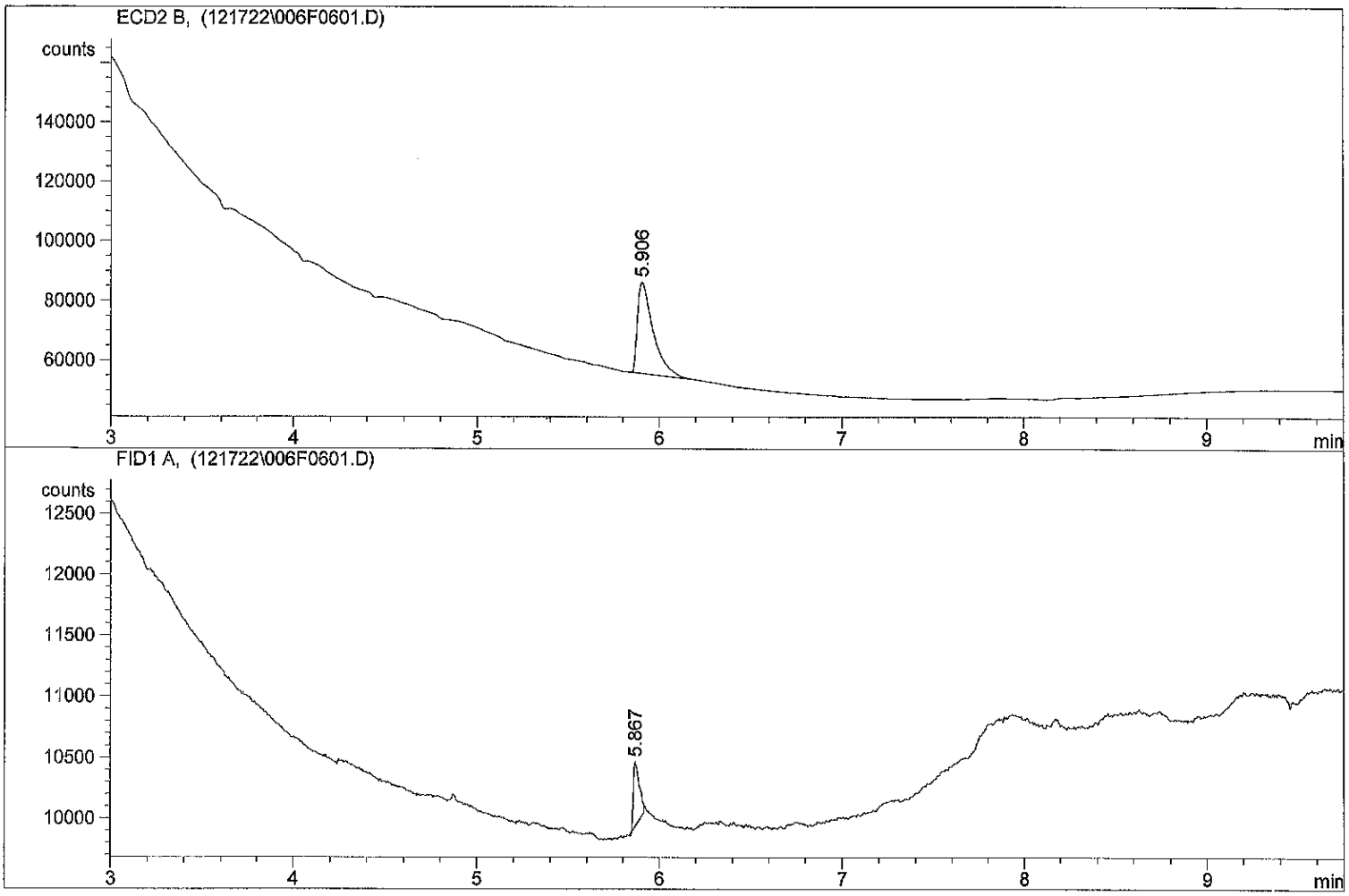


*** End of Report ***

Data File C:\HPCHEM\1\DATA\121722\006F0601.D Sample Name: 22L0246 23

Injection Date	: 12/17/2022 4:11:00 PM	Seq. Line	: 6
Sample Name	: 22L0246 23	Location	: Vial 6
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/17/2022 4:25:27 PM        Seq. Line :   7
Sample Name     : 22L0246 24                    Location : Vial 7
Acq. Operator   : YL                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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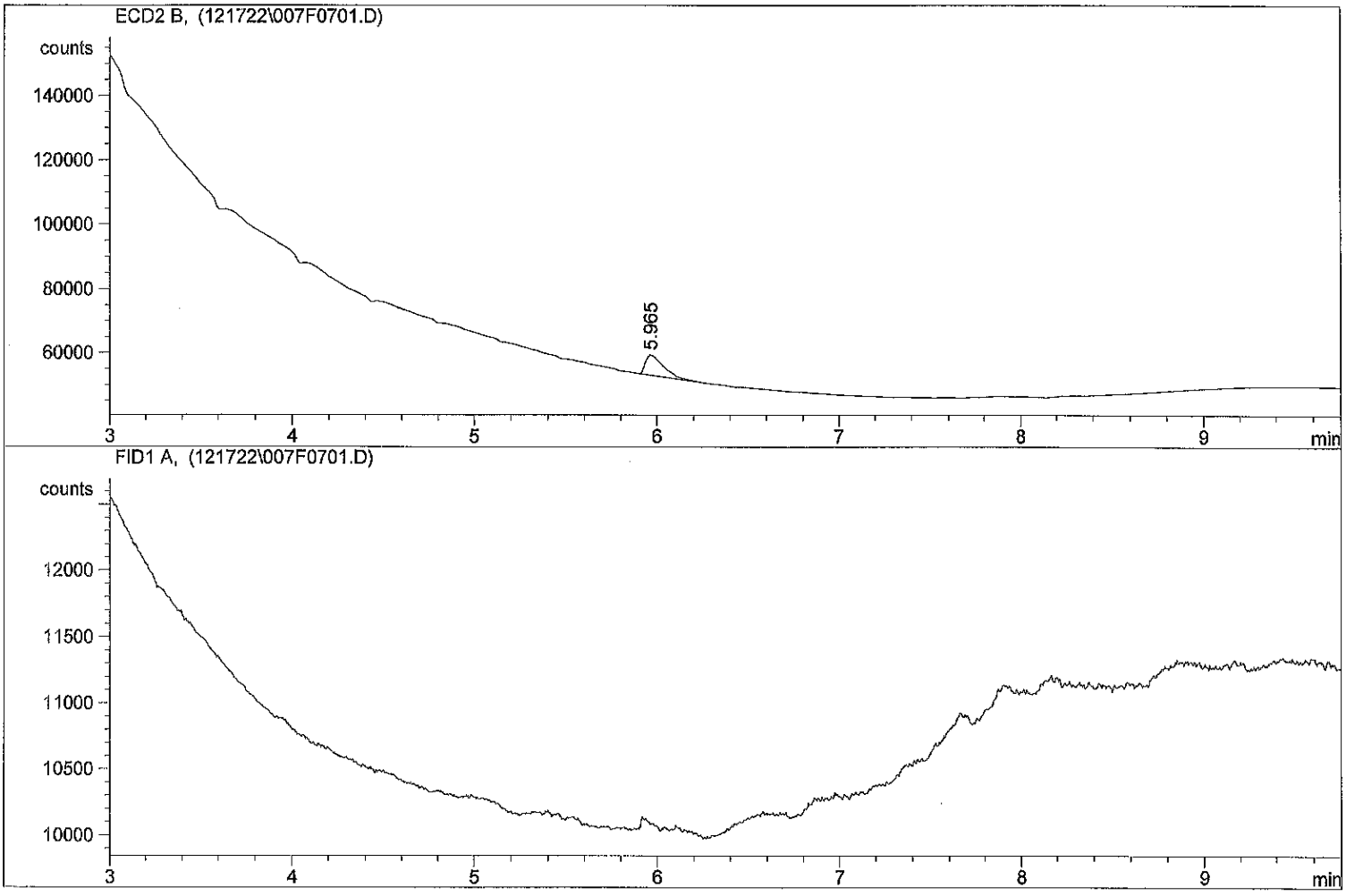

*** End of Report ***

```
Injection Date  : 12/17/2022 4:39:51 PM        Seq. Line :   8
Sample Name     : 22L0246 25                    Location : Vial 8
Acq. Operator   : YL                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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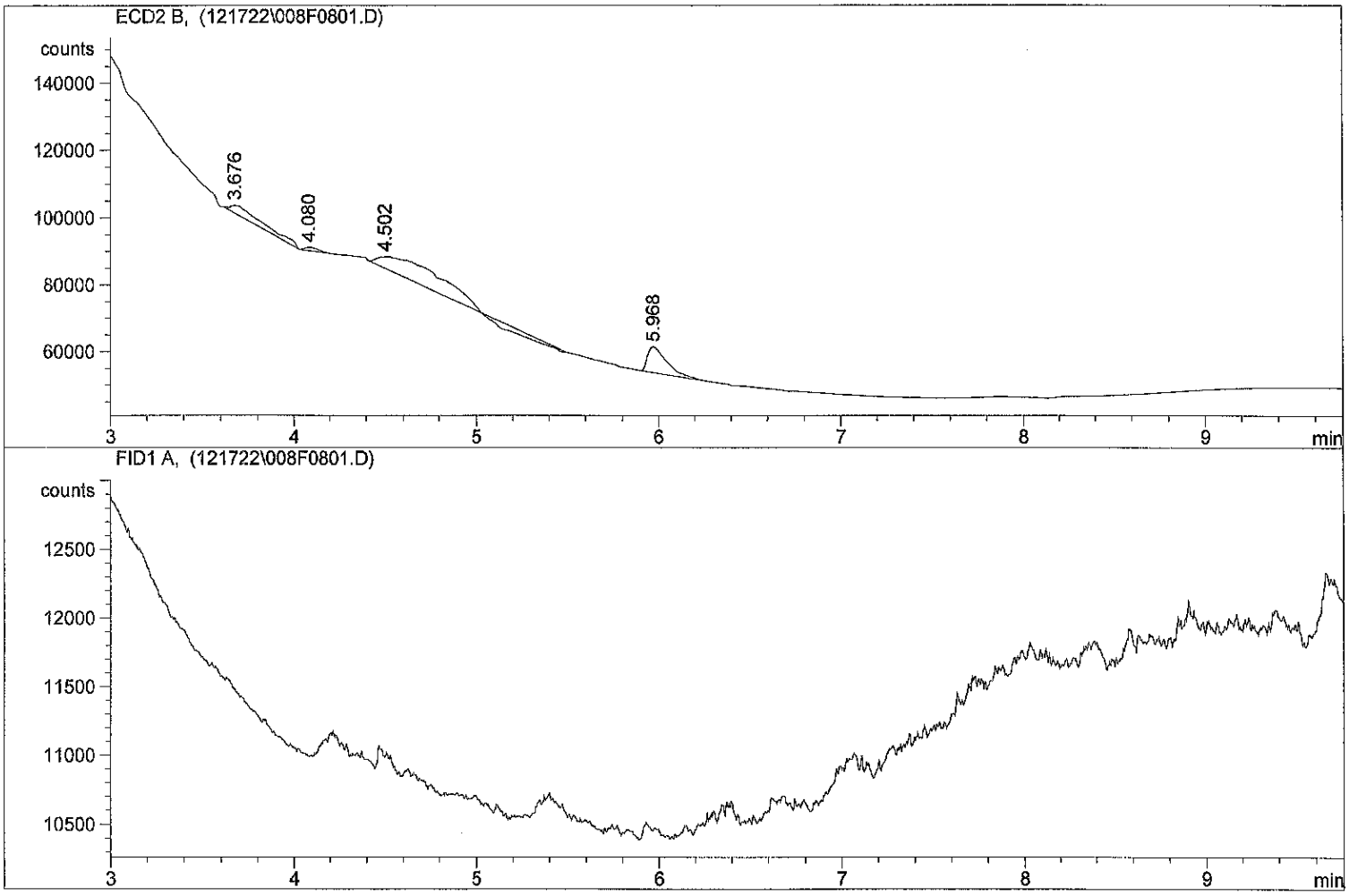
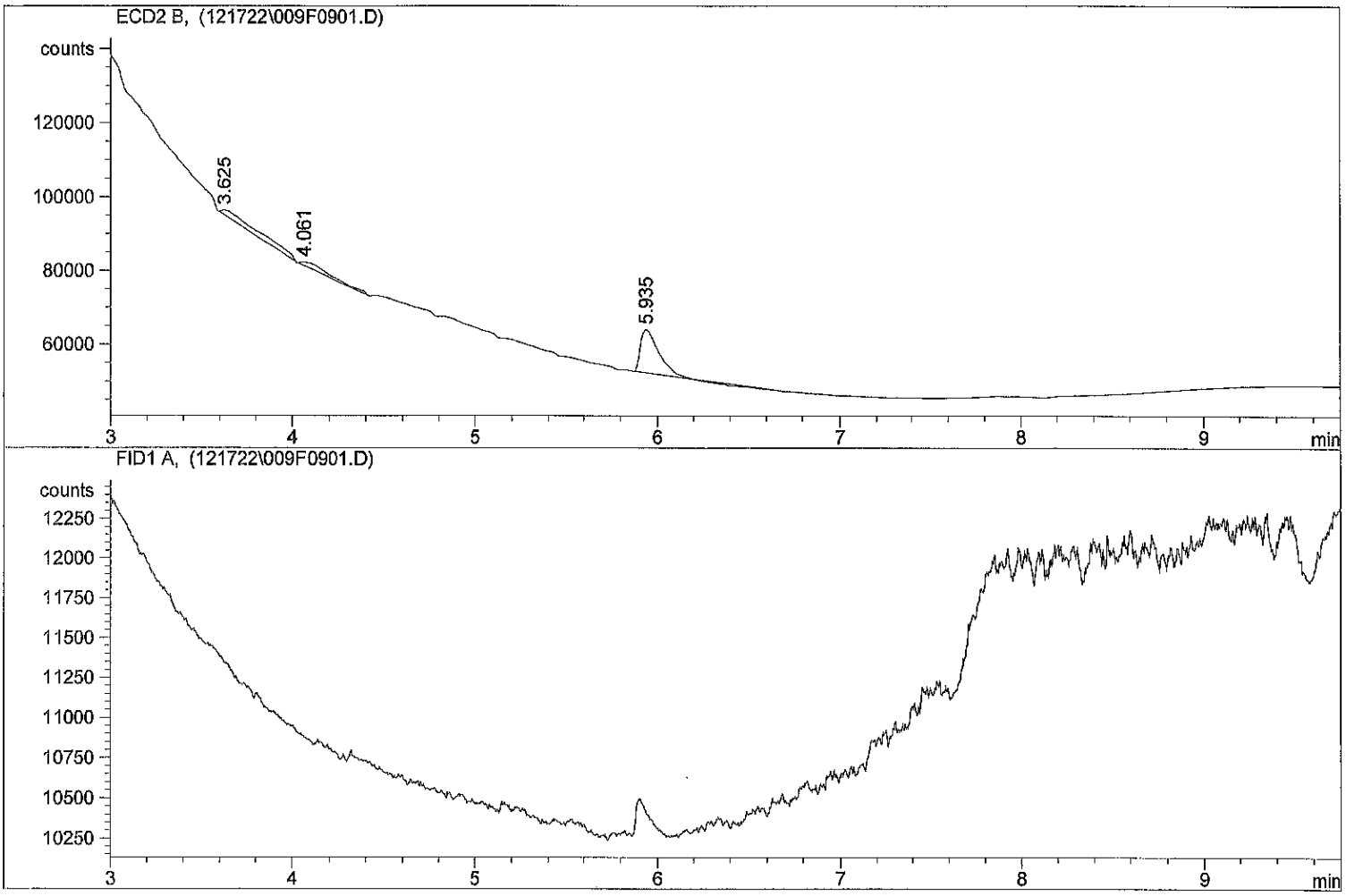


*** End of Report ***

Injection Date	: 12/17/2022 4:54:14 PM	Seq. Line	: 9
Sample Name	: 22L0246 26	Location	: Vial 9
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
==============================================================================
Injection Date  : 12/17/2022 5:08:41 PM        Seq. Line :  10
Sample Name     : 22L0246 27                   Location : Vial 10
Acq. Operator   : YL                               Inj :  1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
==============================================================================
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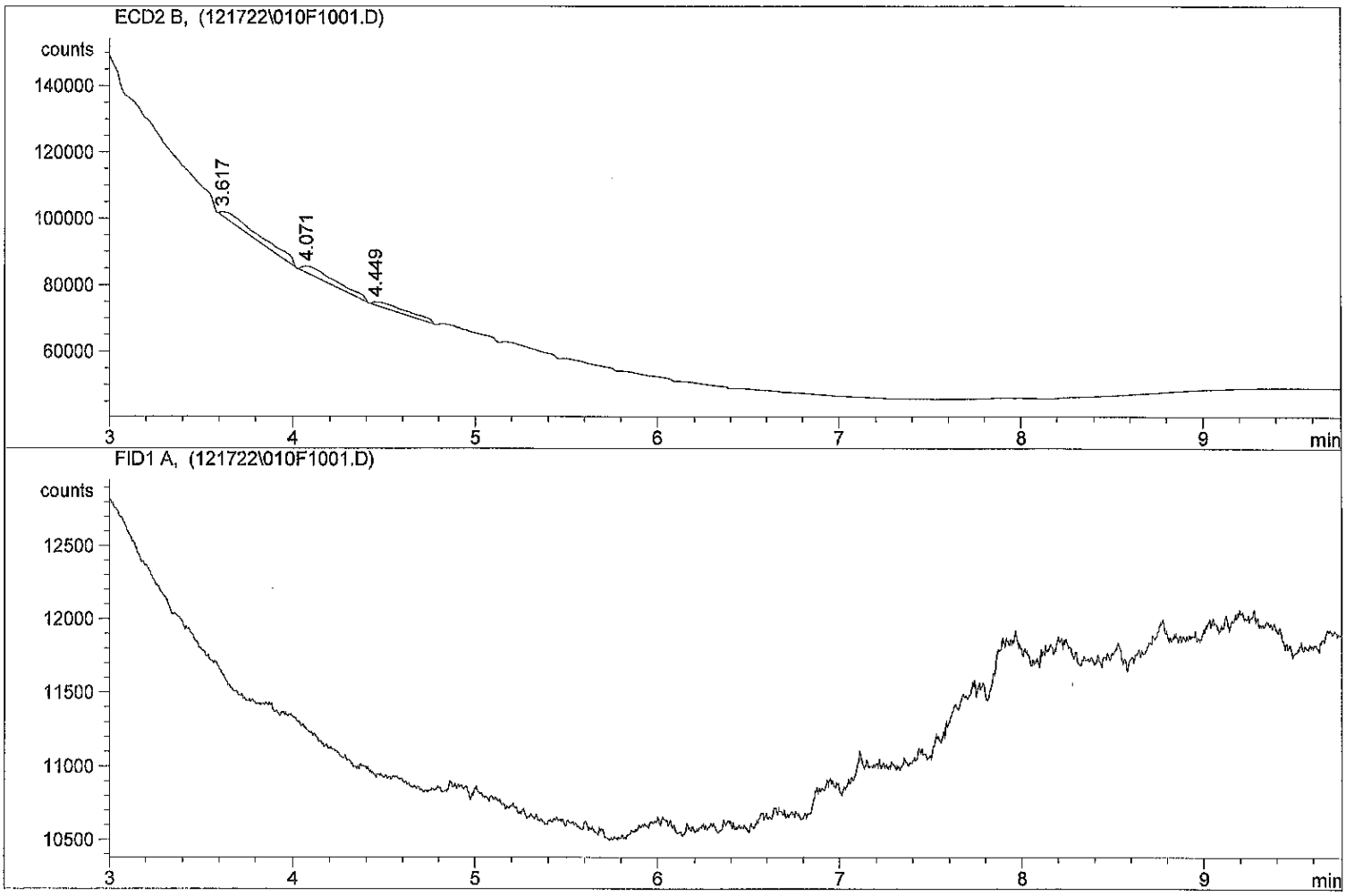
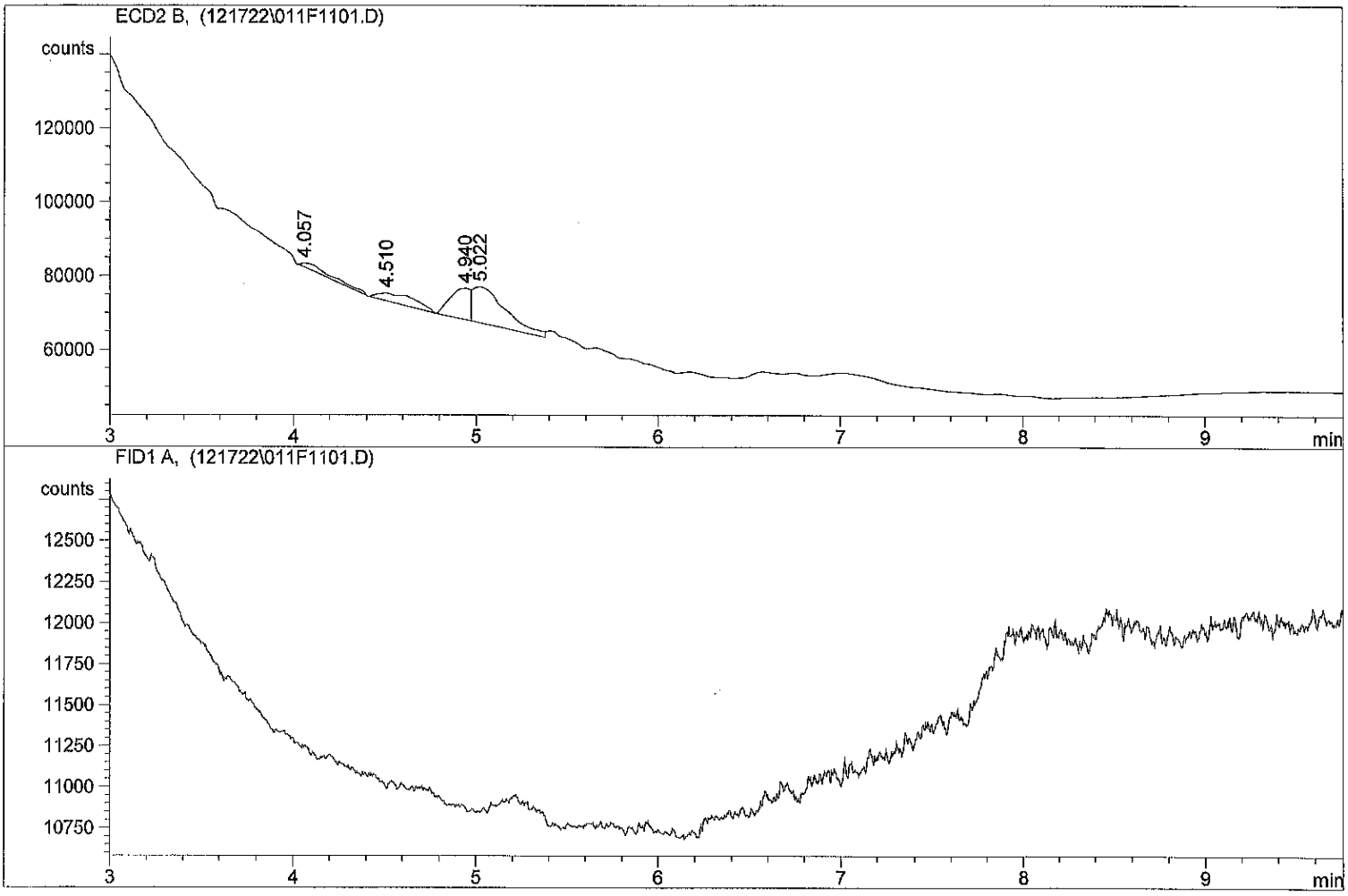


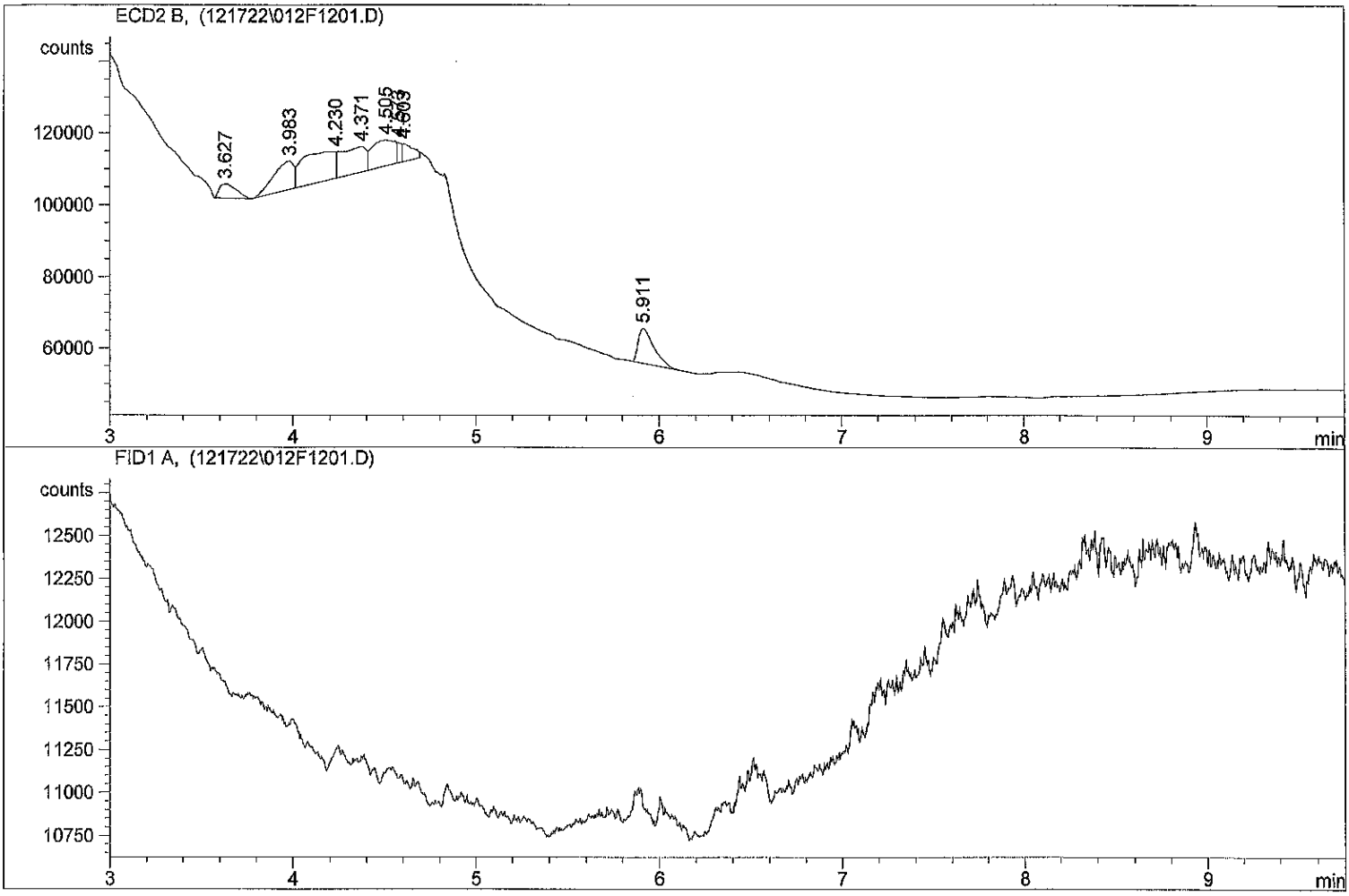
*** End of Report ***

Injection Date	: 12/17/2022 5:23:03 PM	Seq. Line	: 11
Sample Name	: 22L0246 28	Location	: Vial 11
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



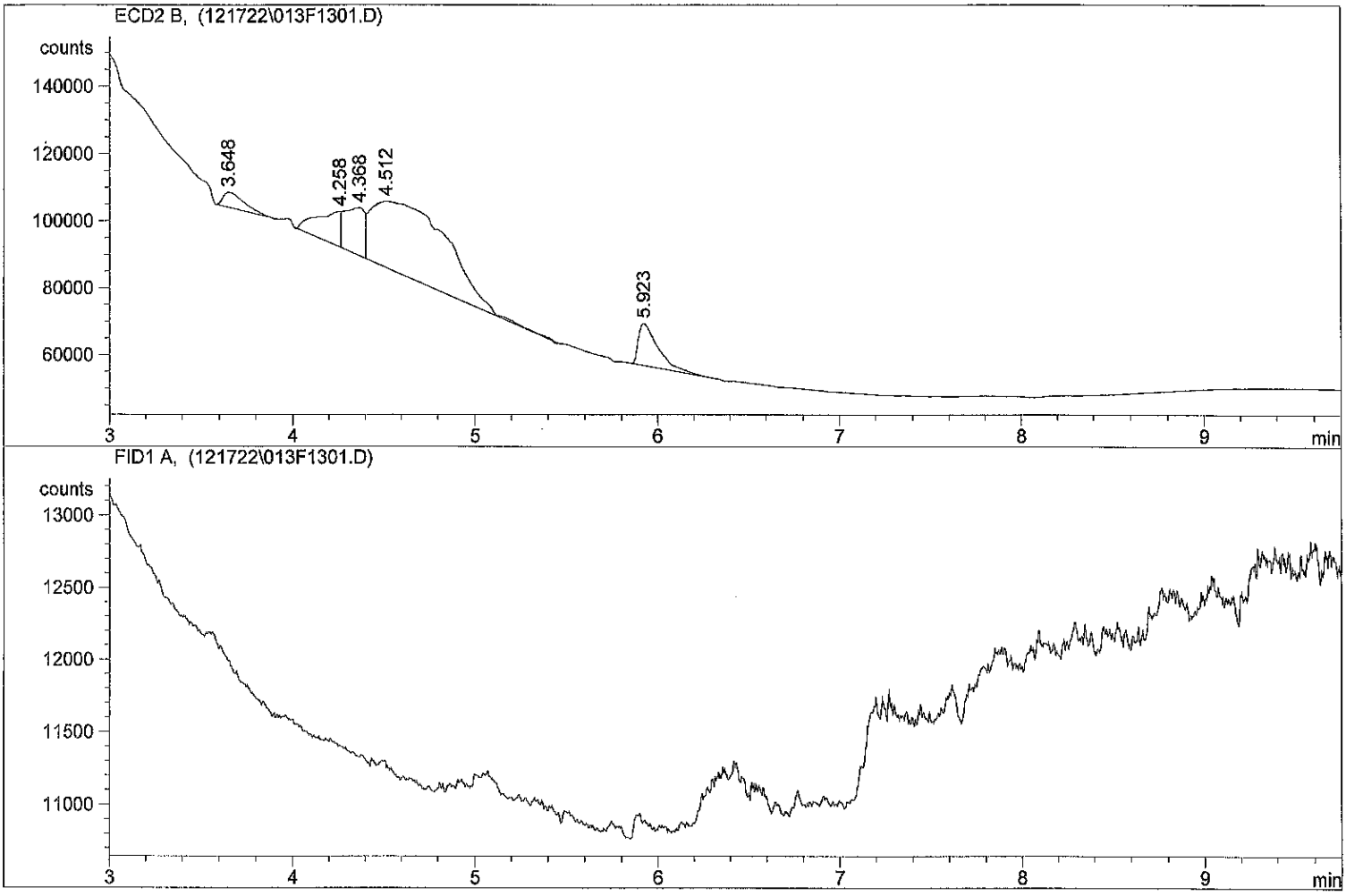
*** End of Report ***

Injection Date	: 12/17/2022 5:37:22 PM	Seq. Line	: 12
Sample Name	: 22L0246 29	Location	: Vial 12
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



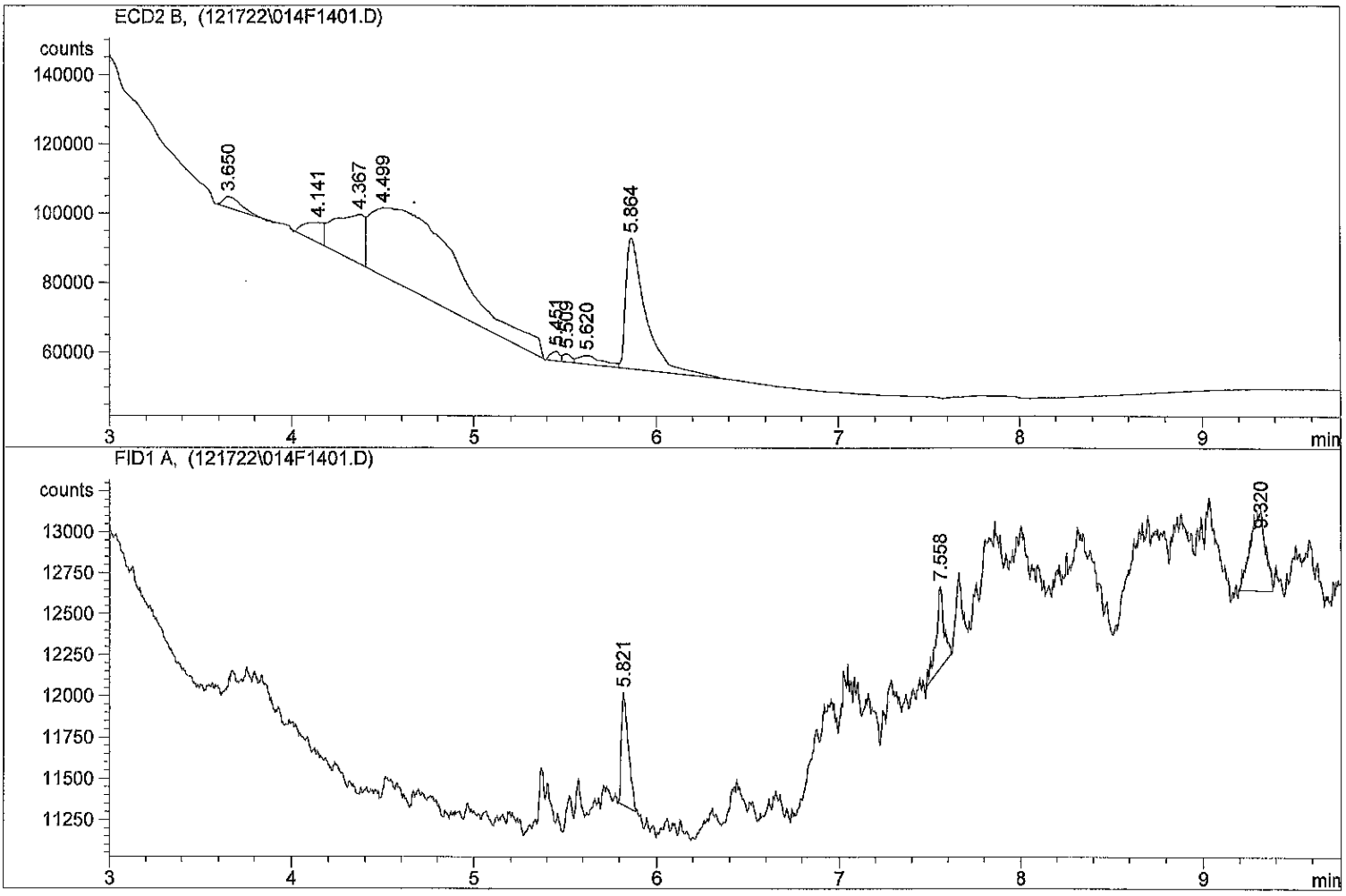
*** End of Report ***

Injection Date	: 12/17/2022 5:51:51 PM	Seq. Line	: 13
Sample Name	: 22L0246 30	Location	: Vial 13
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



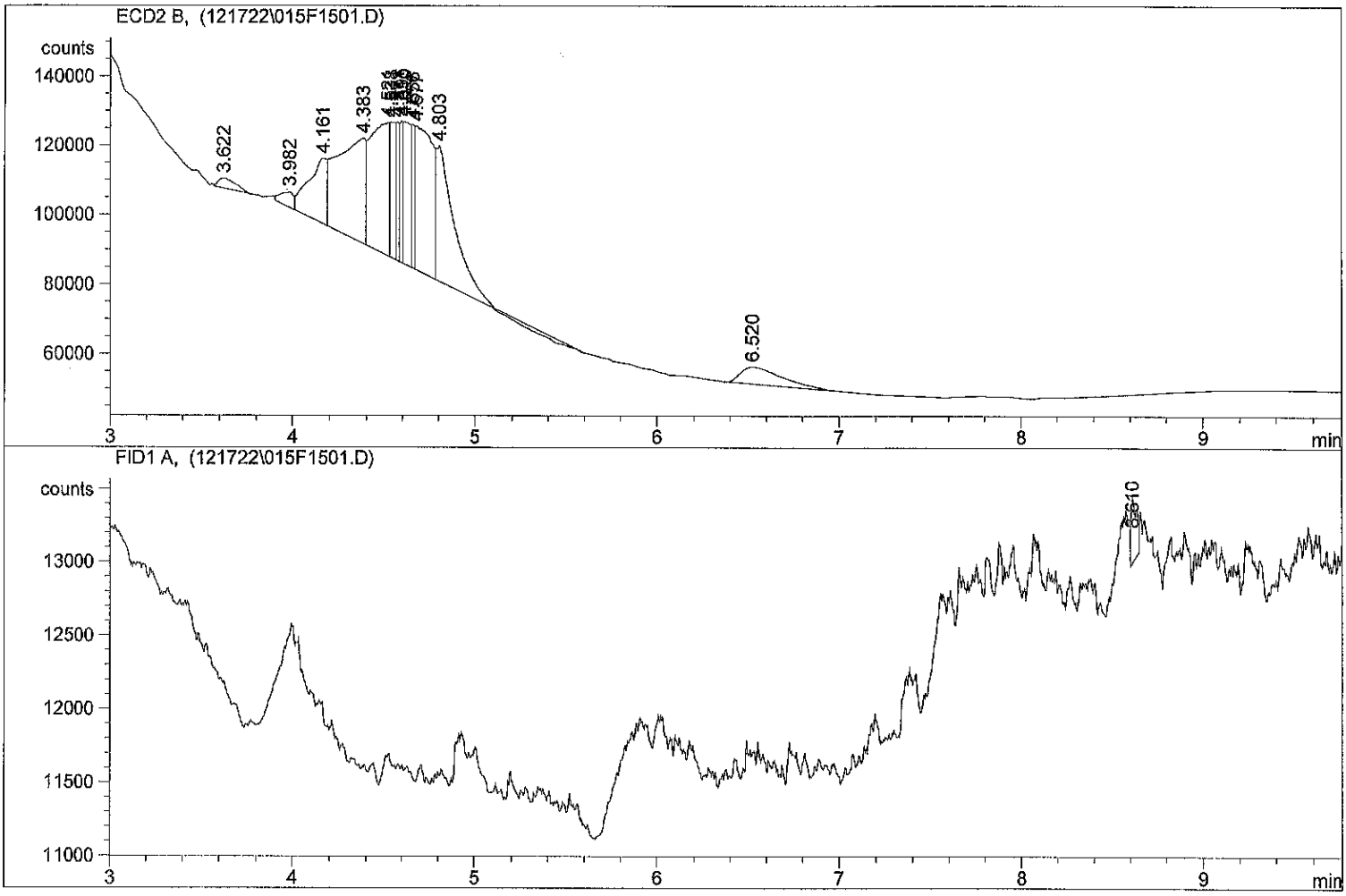
*** End of Report ***

Injection Date	: 12/17/2022 6:06:17 PM	Seq. Line	: 14
Sample Name	: 22L0246 31	Location	: Vial 14
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



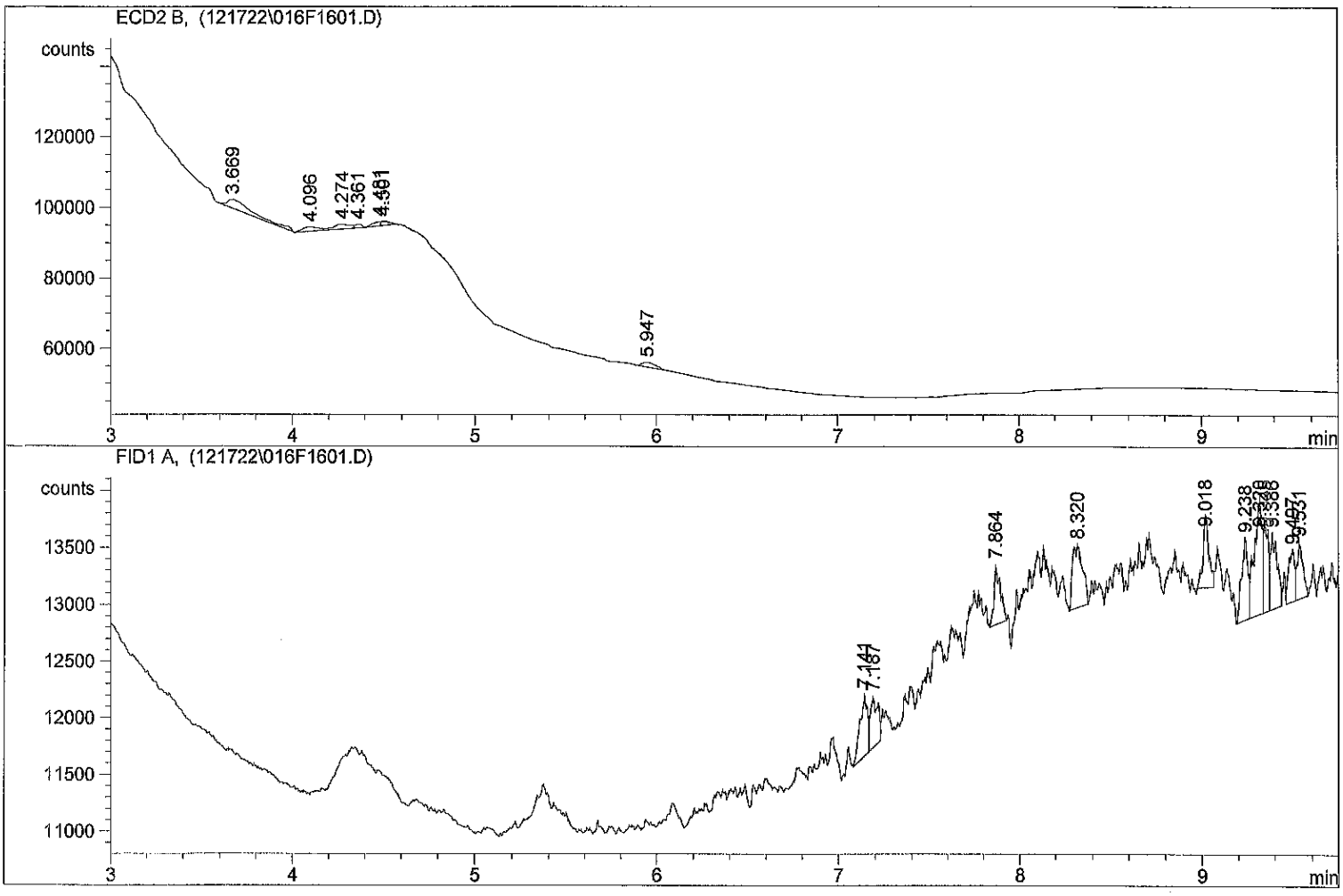
*** End of Report ***

Injection Date	: 12/17/2022 6:20:42 PM	Seq. Line	: 15
Sample Name	: 22L0246 32	Location	: Vial 15
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



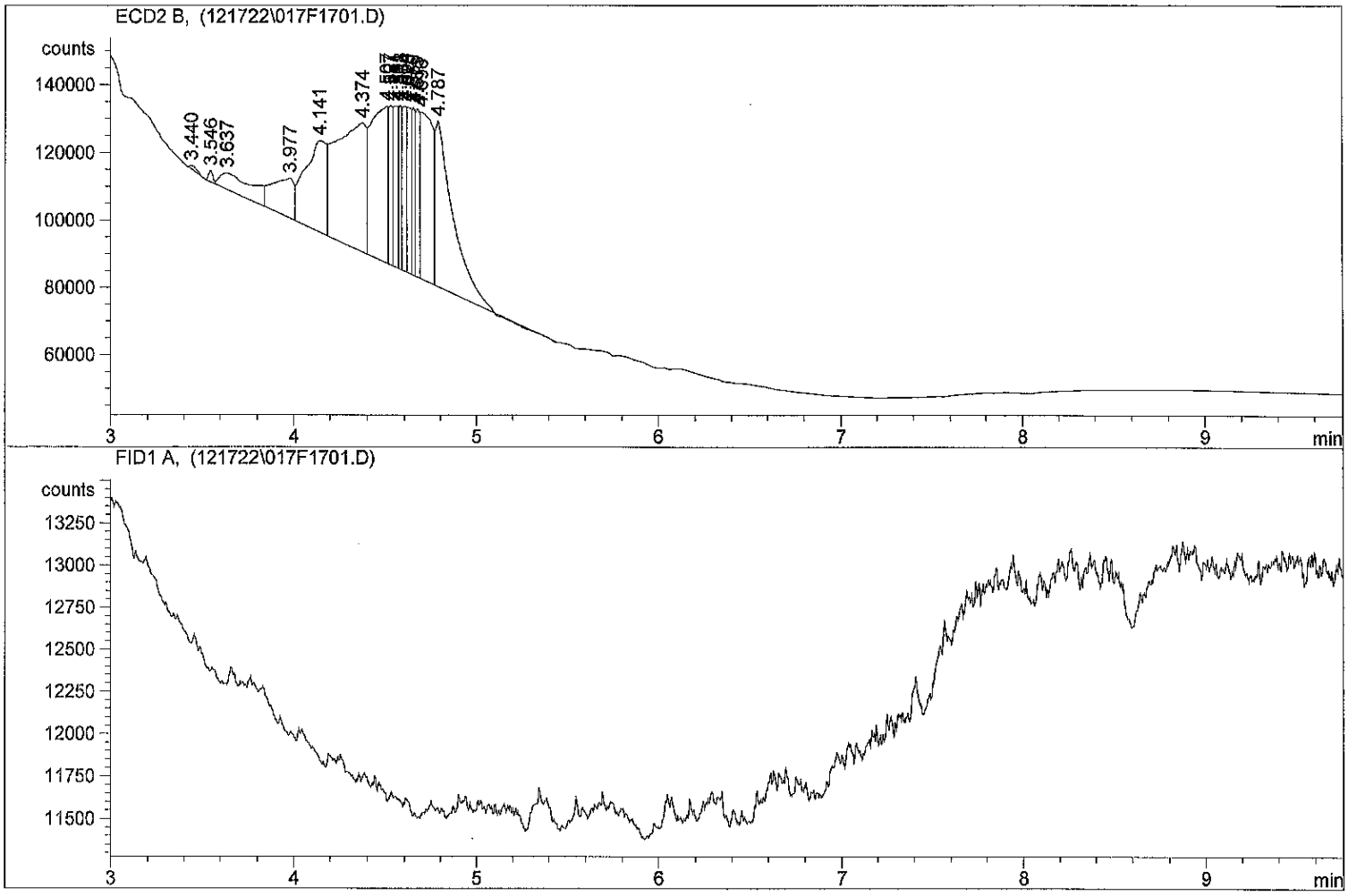
*** End of Report ***

Injection Date	: 12/17/2022 6:34:09 PM	Seq. Line	: 16
Sample Name	: 22L0246 33	Location	: Vial 16
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



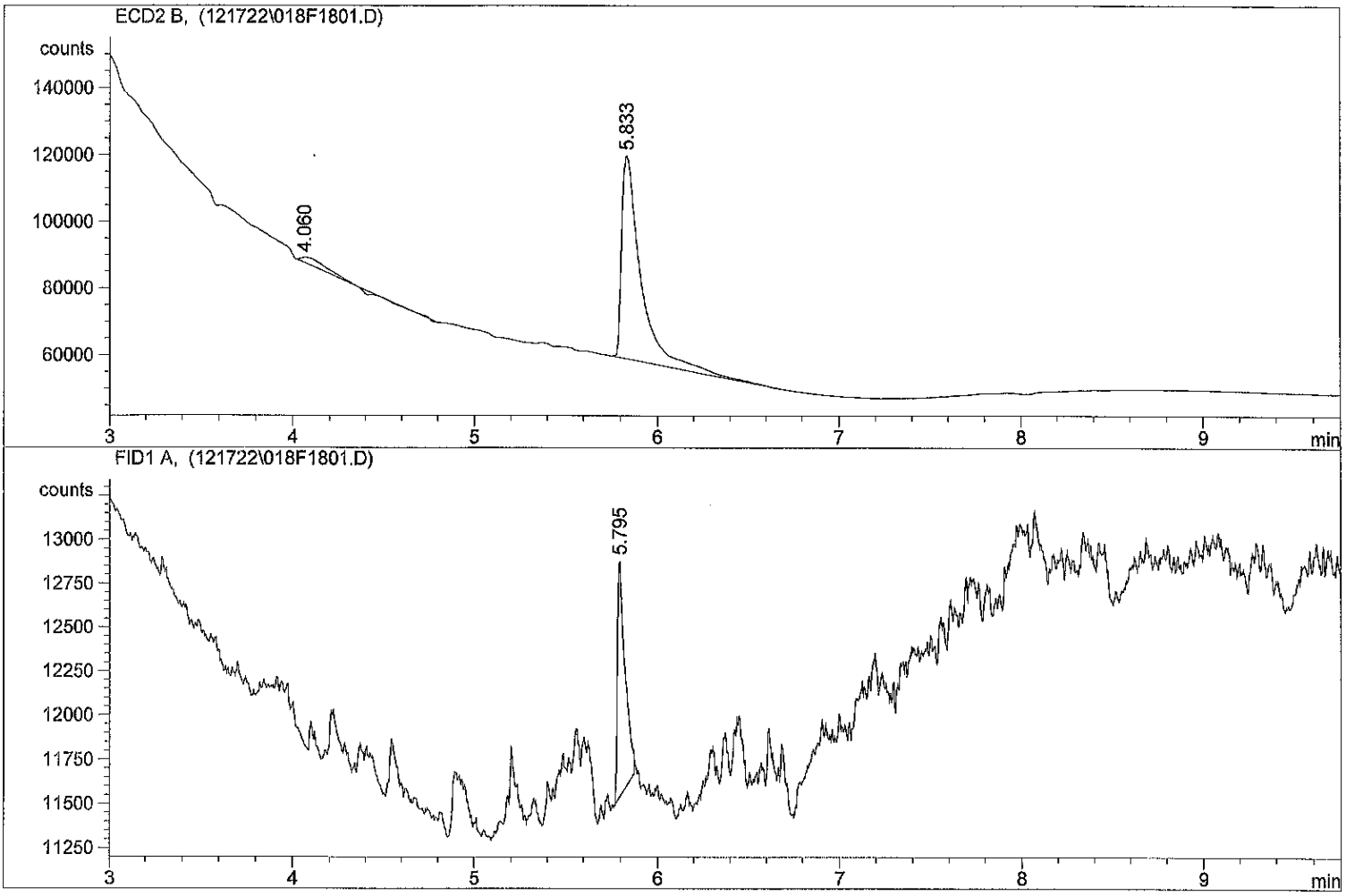
*** End of Report ***

Injection Date	: 12/17/2022 6:48:53 PM	Seq. Line	: 17
Sample Name	: 22L0246 34	Location	: Vial 17
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/17/2022 7:03:30 PM	Seq. Line	: 18
Sample Name	: 22L0246 35	Location	: Vial 18
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/17/2022 7:17:00 PM        Seq. Line :  19
Sample Name     : 22L0246 36                    Location : Vial 19
Acq. Operator   : YL                               Inj :   1
                                              Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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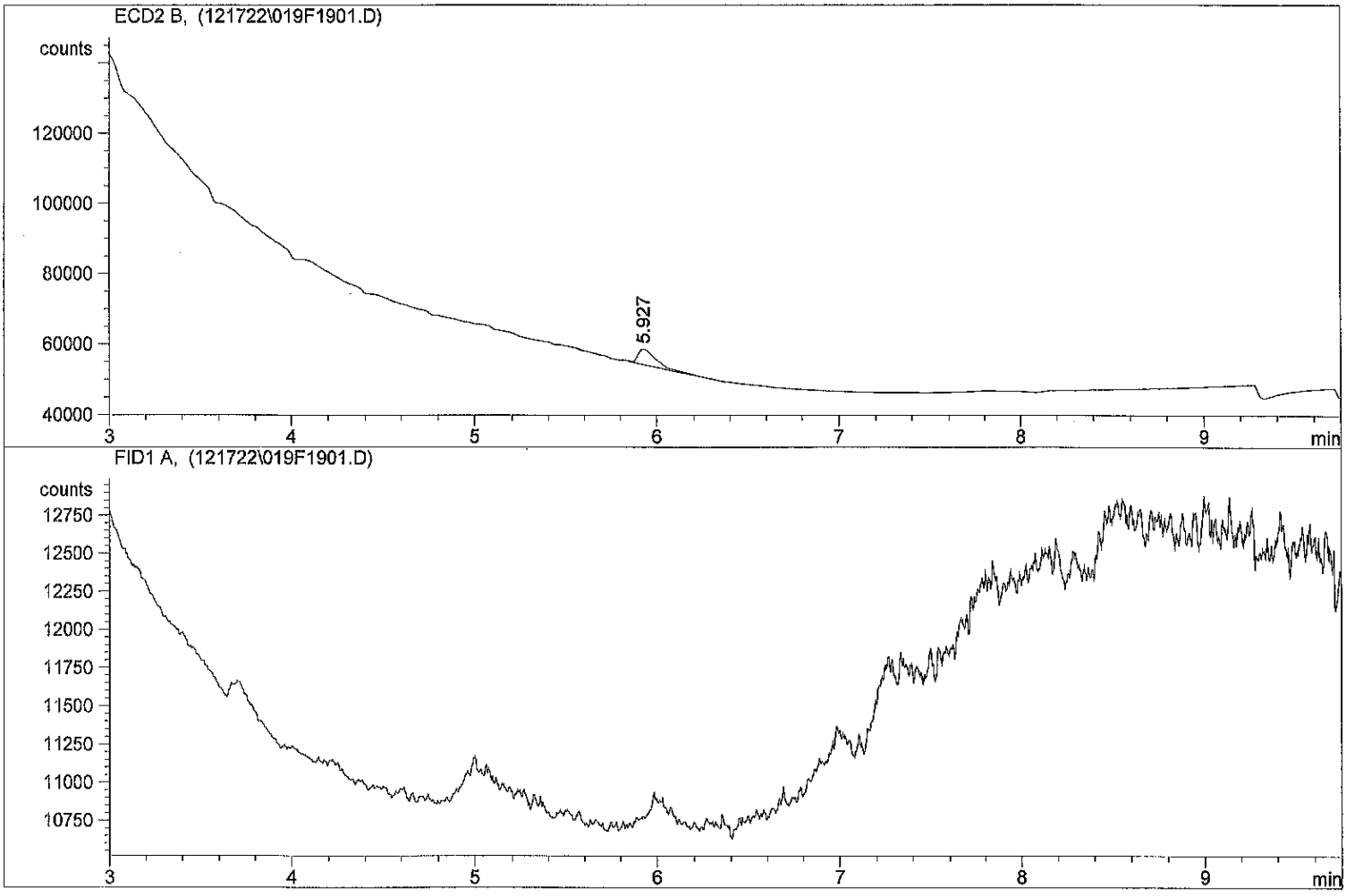
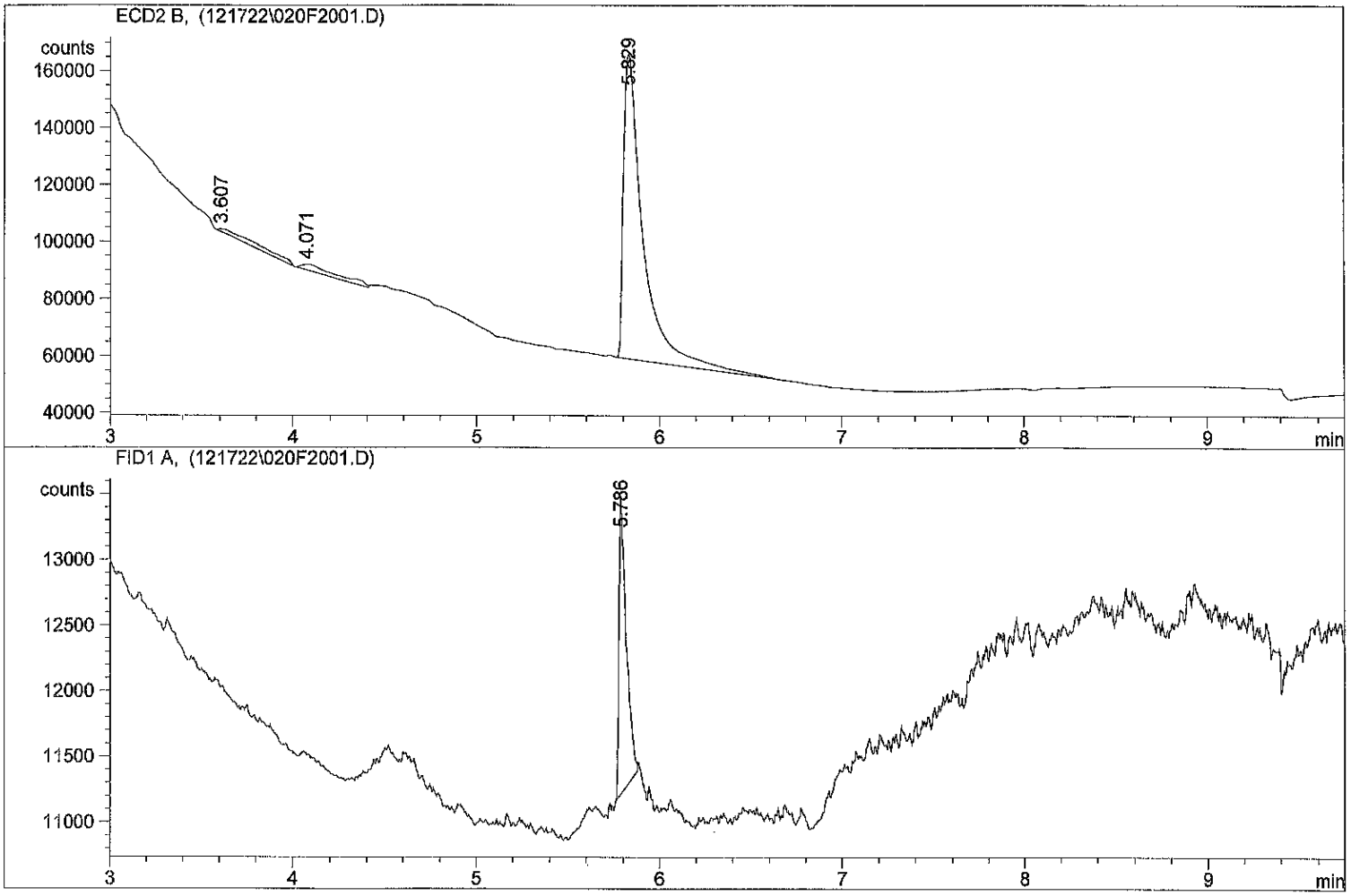


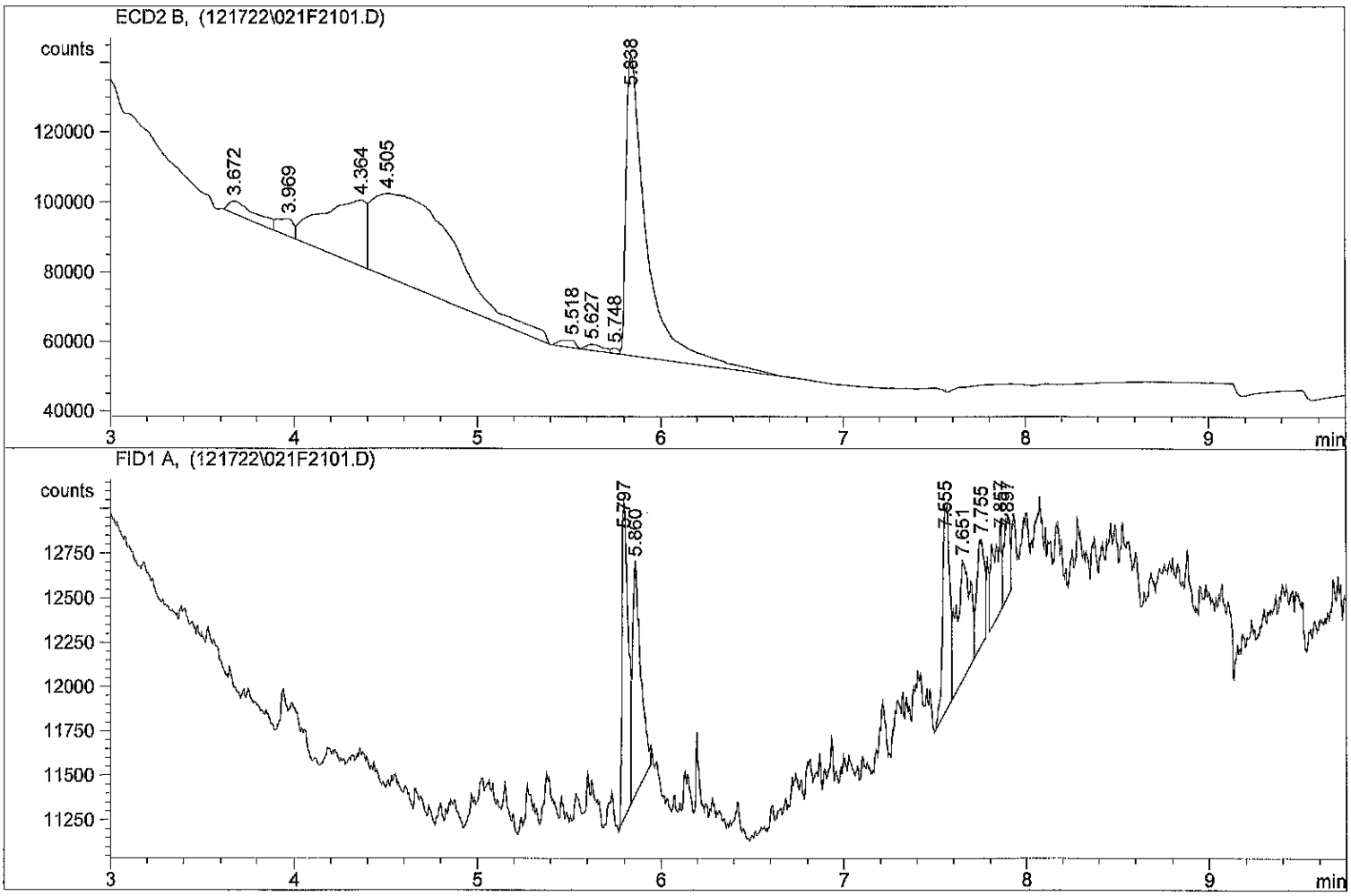
*** End of Report ***

Injection Date	: 12/17/2022 7:30:53 PM	Seq. Line	: 20
Sample Name	: 22L0246 37	Location	: Vial 20
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/17/2022 7:45:31 PM	Seq. Line	: 21
Sample Name	: 22L0246 38	Location	: Vial 21
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

```
Injection Date  : 12/17/2022 7:59:02 PM        Seq. Line :  22
Sample Name     : 22L0246 39                   Location : Vial 22
Acq. Operator   : YL                              Inj :   1
                                               Inj Volume : 1 µl
Sequence File   : C:\HPCHEM\1\SEQUENCE\121722.S
Method          : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed    : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD
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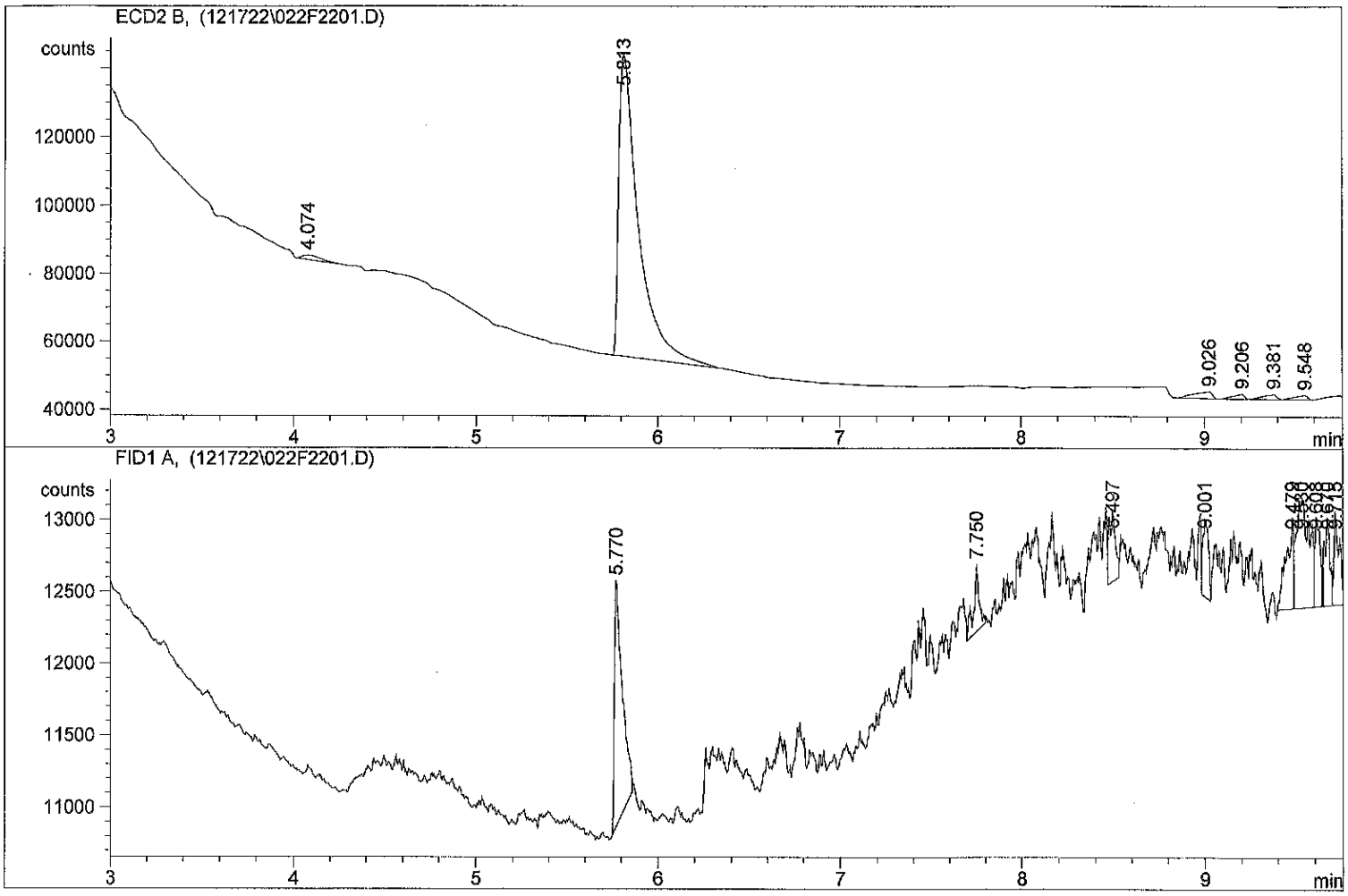
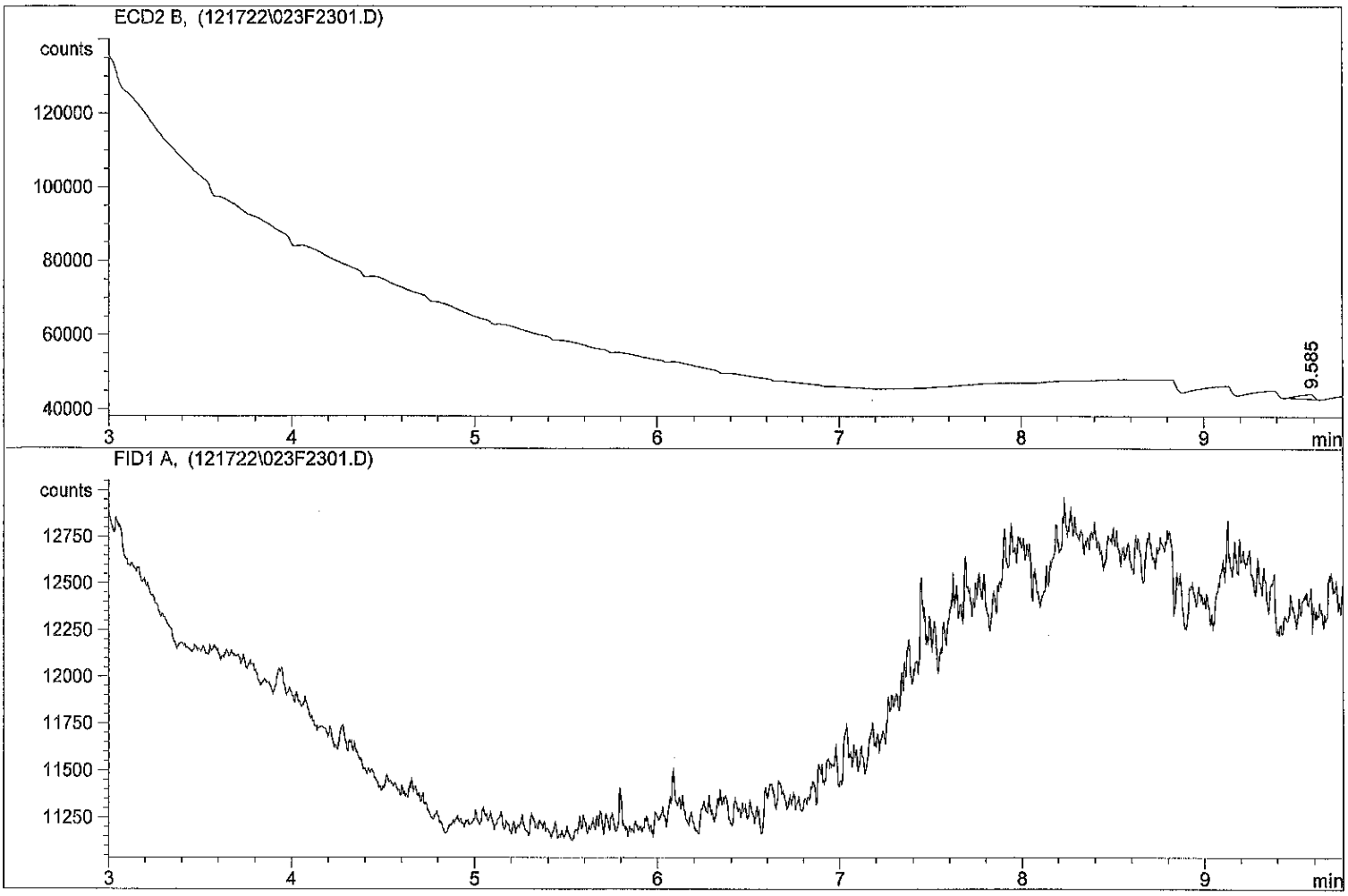


*** End of Report ***

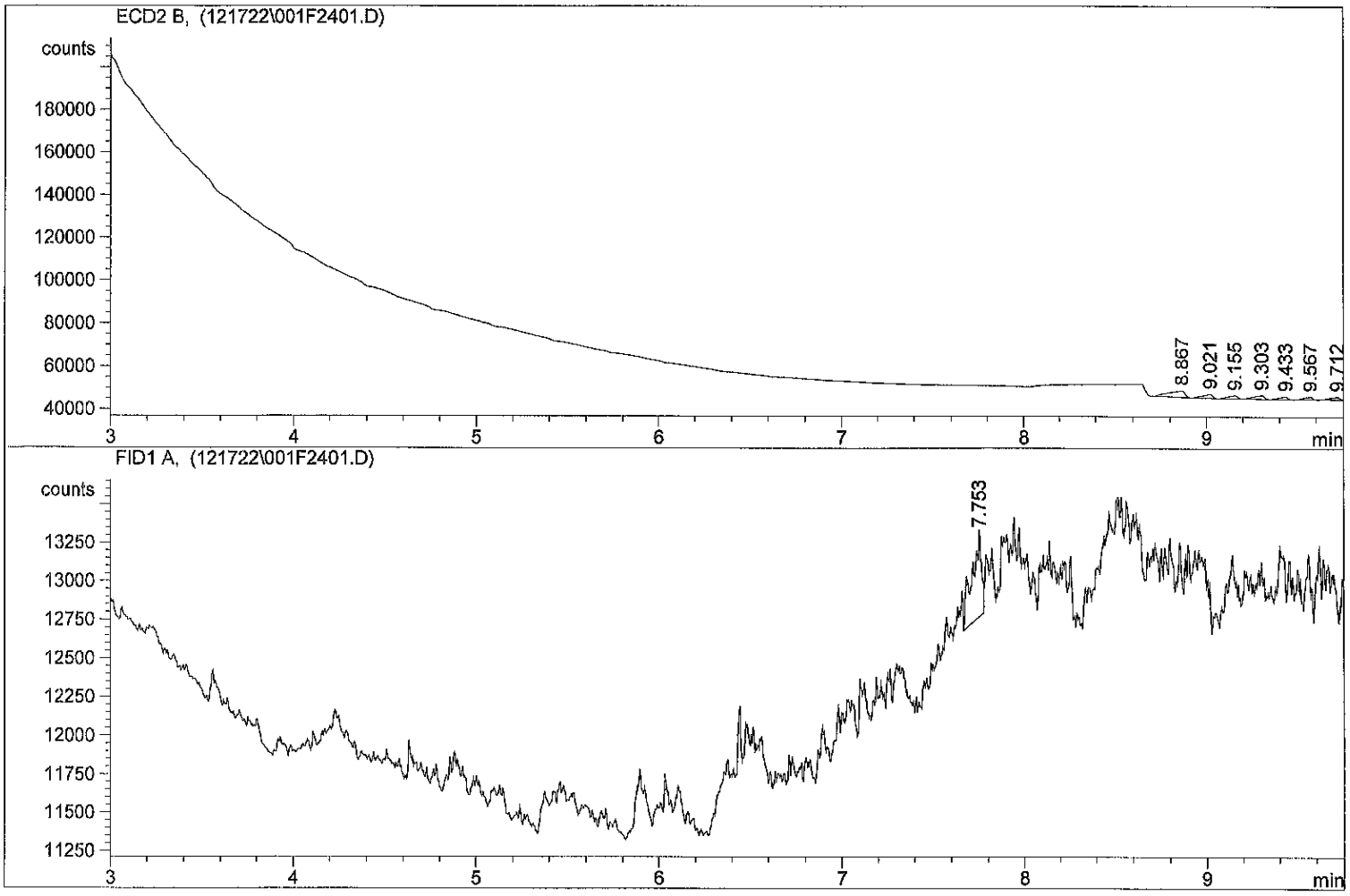
Injection Date	: 12/17/2022 8:12:56 PM	Seq. Line	: 23
Sample Name	: 22L0246 40	Location	: Vial 23
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

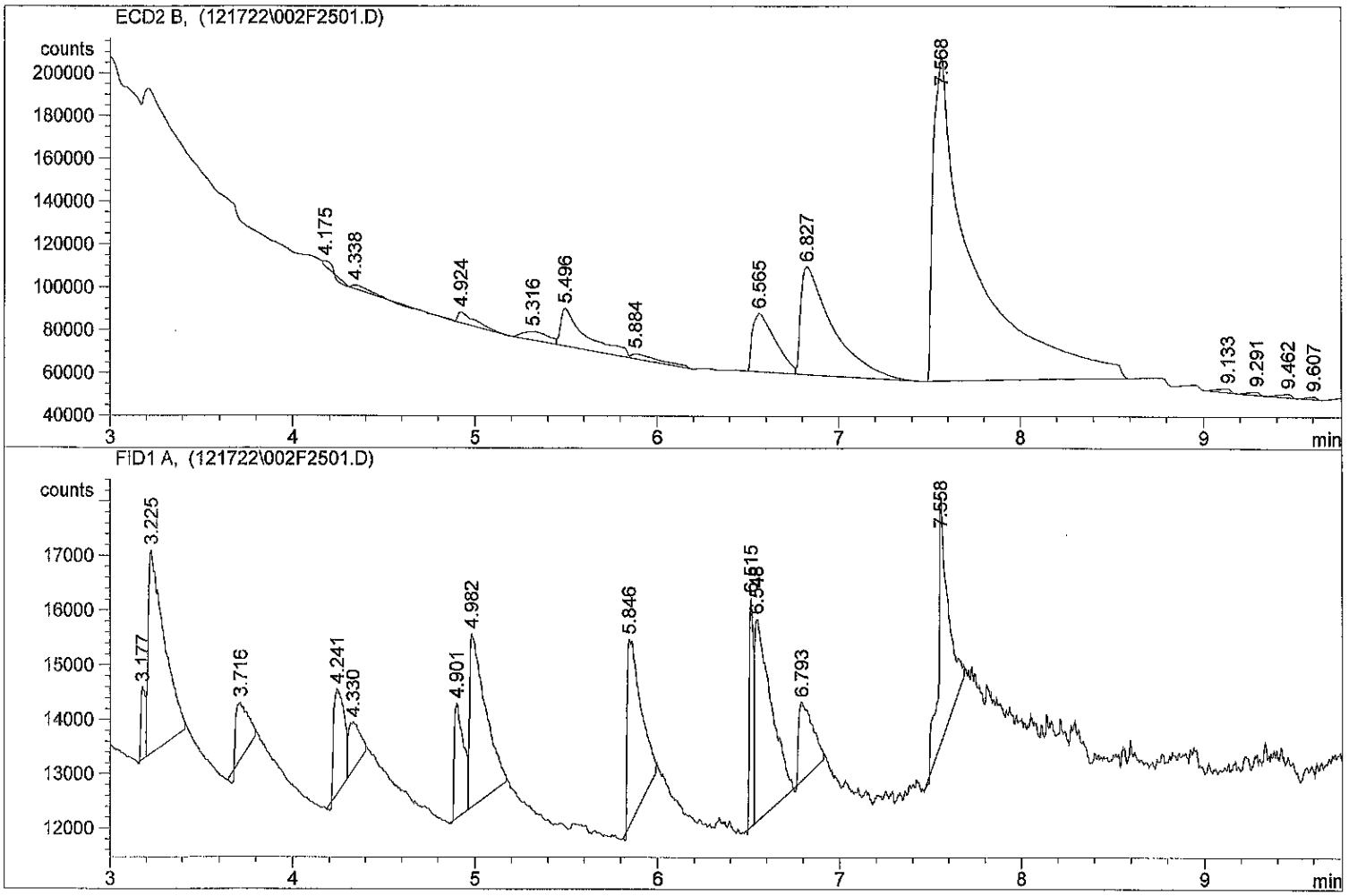
Data File C:\HPCHEM\1\DATA\121722\001F2401.D Sample Name: DCM RINSE

Injection Date	: 12/17/2022 8:26:28 PM	Seq. Line	: 24
Sample Name	: DCM RINSE	Location	: Vial 1
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



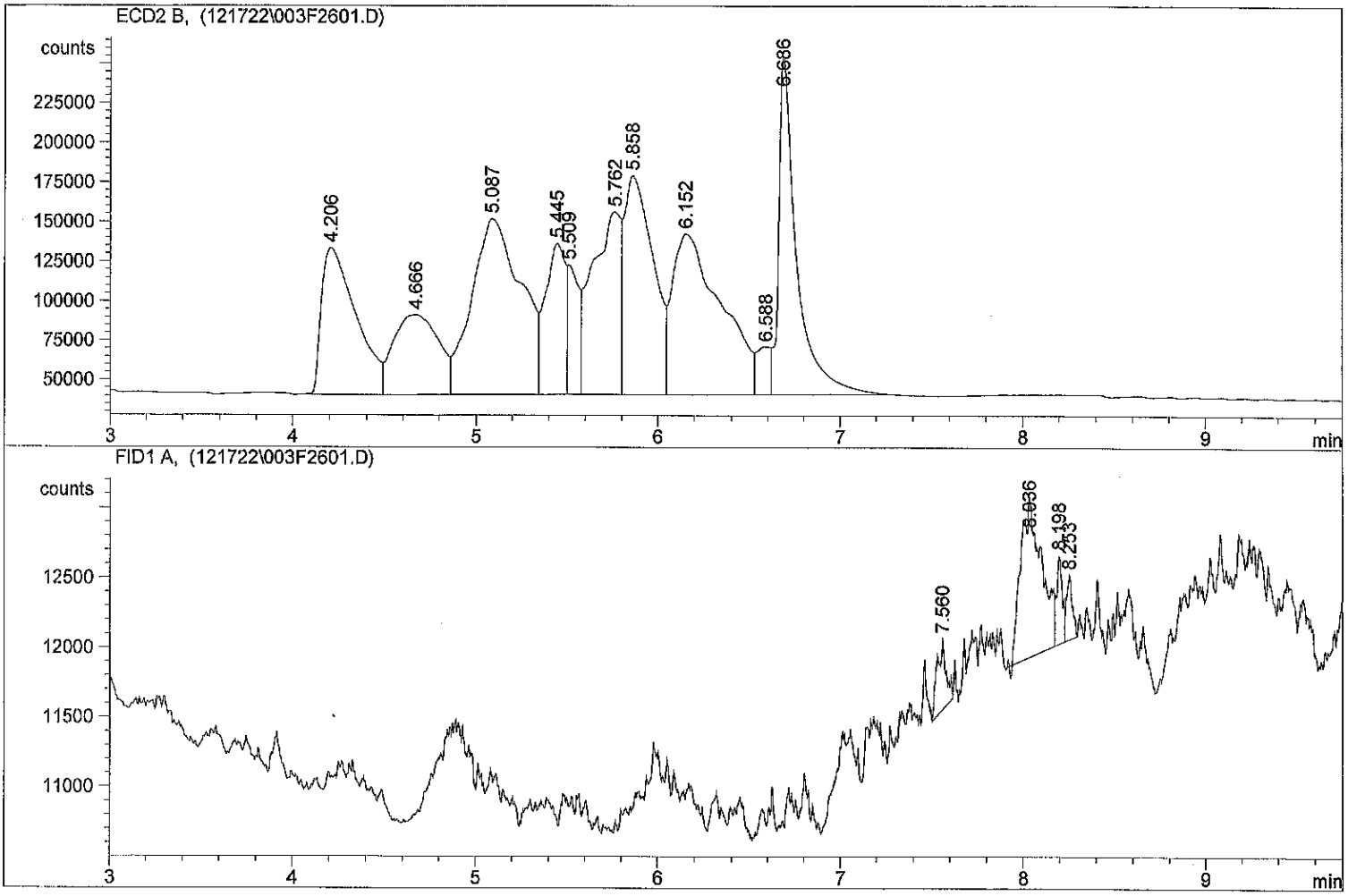
*** End of Report ***

Injection Date	: 12/17/2022 8:40:22 PM	Seq. Line	: 25
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/17/2022 8:55:01 PM	Seq. Line	: 26
Sample Name	: AR1660 1PPM	Location	: Vial 3
Acq. Operator	: YL	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121722.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

PREPARATION BATCH SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0571 Batch Matrix: Solid Preparation: EPA 3546 (Microwave)

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC759B	22L0246-41	01042304ECD7.D	12/22/22 14:08	
LDW22-IT809A	22L0246-42	01042305ECD7.D	12/22/22 14:08	
LDW22-IT809B	22L0246-43	01042306ECD7.D	12/22/22 14:08	
LDW22-IT809C	22L0246-44	01032342ECD7.D	12/22/22 14:08	
LDW22-IT809D	22L0246-45	01032343ECD7.D	12/22/22 14:08	
LDW22-IT809E	22L0246-46	01032344ECD7.D	12/22/22 14:08	
LDW22-IT809F	22L0246-47	01032345ECD7.D	12/22/22 14:08	
LDW22-IT809G	22L0246-48	01032346ECD7.D	12/22/22 14:08	
Blank	BKL0571-BLK1	01032332ECD7.D	12/22/22 14:08	
LCS	BKL0571-BS1	01032333ECD7.D	12/22/22 14:08	
LCS Dup	BKL0571-BSD1	01032334ECD7.D	12/22/22 14:08	
MRL Check	BKL0571-MRL1	01032335ECD7.D	12/22/22 14:08	
LDW22-IT809G	BKL0571-MS1	01032337ECD7.D	12/22/22 14:08	
LDW22-IT809G	BKL0571-MSD1	01032338ECD7.D	12/22/22 14:08	
Reference	BKL0571-SRM1	01032336ECD7.D	12/22/22 14:08	

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0571

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

Matrix: Solid **Date Prepared:** 12/22/22 **Balance ID:** B14642614 **Set Up By:** CTO 12/22/22

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Analysis: 8082A PCB Solid 4

Lab Number & Container	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
22L0246-41 B	61.0	(20.48) 20.51	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-42 C	54.3	(23.02) 23.43	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-43 C	61.3	(20.38) 20.39	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-44 C	48.3	(25.89) 25.90	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-45 C	79.7	(15.69) 15.72	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-46 C	82.0	(15.25) 15.26	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-47 C	71.1	(17.57) 17.65	5mL	5mL	2mL	2.5 ____	1.0 ____	
22L0246-48 C	91.7	(13.64) 13.67	5mL	5mL	2mL	2.5 ____	1.0 ____	

Batch QC

Lab Number	% Solids	Initial (g) Target Dry: 12.5 (Wet) Actual	(REQ) Acid C/U (5mL)	(REQ) Sulfur C/U (5mL) 1 2 3	(REQ) Silica Gel C/U (2:5)	Final Effective Vol (mL)	Vol (mL) to Lab	Extraction Comments
BKL0571-BLK1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0571-BS1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0571-BSD1	100.0	(12.50) 12.54	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0571-MRL1	100.0	(12.50) 12.56	5mL	5mL	2mL	2.5 ____	1.0 ____	(10g Actual Wt.)
BKL0571-MS1	91.7	(13.64) 13.64	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0246-48
BKL0571-MSD1	91.7	(13.64) 13.64	5mL	5mL	2mL	2.5 ____	1.0 ____	Use 22L0246-48
BKL0571-SRM1	100.0	~~(12.50)~~ (2.50) 2.56	5mL	5mL	2mL	2.5 ____	1.0 ____	Use K010815

+1g DI WATER

12/22/22 — Client ID verified By — Date

ZH — Preparation Reviewed By — 1/3/23 — Date

12/22/22 14:48 — Extraction Date and Time

Printed: 12/22/2022 9:21:05AM

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0571

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Steps

Microwave
1 2 3
12/22/22
Analyst/Date

KD
100°C
Hexane Exchange
(2 X 20 mL)
1 2 3 4 5 6
LJ 12/29/22
Analyst/Date

TurboVap
Pre Cleanups
1 2 3 4 5
1-03-23
DM Analyst/Date

TurboVap
Post Cleanups
1 2 3 4 5
ZH 1/3/23
Analyst/Date

Vialing
ZH 1/3/23
Analyst/Date

Reagents Used

Station/Reagent	Standard ID
Microwave Analyst: KT Date: 12/22/22	
Neutral Glass Wool	KØ10582
1:1 Hexane/Acetone	KØ11642
Hexane	KØ11373
Anhydrous Sodium Sulfate	KØ11562
KD Analyst: LJ Date: 12/29/22	
Anhydrous Sodium Sulfate	
Hexane	KØ11373
Vialing Analyst: ZH Date: 1/3/23	
Hexane	KØ11373
Concentrated Sulfuric Acid	KØ10364
Silica Gel (SPE) Darts	KØ11573
Sodium Sulfite	KØ03744
Tetrabutylammonium hydrogensulfate (TBAS)	KØ11530

Surrogates & Spike Standards Used

Type	Vial ID / Standard ID	Vol uL	Analyst	Witness
Surrogate 2µg/mL	N K011752 (V) Exp Date: 1/23/2023	50µL	CT	Y
Spike 20µg/mL	1 K008150 (V) Exp Date: 3/5/2023	63µL	CT	LJ
QLS Spike 2µg/mL	QLS K009793 Exp Date: 3/5/2023	25µL	CT	N

MANUALLY ENTER EXPIRATION DATES!

(V) indicates a virtual standard combining two or more physical standards. In these cases the Standard ID refers to the virtual standard, not the parent standards.

If a Standard ID is missing, but should be present, check the standard definition in Element LIMS to be sure Standard Info 6 has the correct letter or number designator matching the vial designator inthe Standard ID column. If it is correct, check the batch and bench sheet in Element LIMS to be sure the correct standards are selected for surrogate(s) and spike(s).

Analytical Resources, LLC
Analytical Chemists and Consultants

ORGANICS PREPARATION BENCH SHEET

Batch: BKL0571

Prepared using: EPA 3546 (Microwave)

8082A PCB Solid 4 in Solid (Version:7 Aroclors)

WO Comments

22L0246: <G> BPR Project batch as much as possible </G> <C>BPR SRM, MS, DUP </C> <M>BPR PS, MS/MSD </M> <E>BPR 8270E RM H002055, SIM RM H010158, PCB RM J006840-43, 7935-36, MS/MSD </E>
<H>BPR J006840-43, 7935-36 Dup </H> Store immediately in freezer (except GS)

Prep Instructions	
SPECIAL INSTRUCTIONS: 1. Weigh soil/sed into beakers-lightly dry with sodium sulfate. 2. Transfer to microwave vessel(s). Note: (do not fill vessels more than 2/3rd full. Some samples may require two vessels). 3. Add 1:1 Hexane/Acetone until the solvent layer is 3 inches above the soil layer after homogenization. 4. Add surr/spike. 5. Microwave on appropriate power setting determined by # of samples. 6. After microwave-Re-homogenize while hot then cool vessels in R-05 15 minutes. Re-homogenize while cool. 7. Decant 1:1 Hex/Ace into Erlenmeyer flask with sodium sulfate in bottom and funnel with neutral glasswool plug. 8. Re-homogenize and rinse with 1:1 Hexane/Acetone. 9. Let cool and decant solvent then empty the soil into the funnel and rinse with Hexane. 10. KD on 100° bath. 11. Exchange (2 X with 20mL) Hexane. 12. TurboVap. 13. Clean-ups. 14. TurboVap. 15. Vial with Hexane. A. Need Total Solids Y (N) B. Archive/Freeze (Y) N	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

Extraction Parameter: PCB Extraction Batch: BKL0571

Total Solids Batch: BKL0402 Work Order(s): 22L0246 41-48

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 41-48	CR 12/19/22
☒ Standing Water Decanted (Not shared)= 41,42	CR 12/19/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 41-48	CR 12/19/22
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	CR 12/19/22
☒ Multiple Jars Y (N)	CR 12/19/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Analytical Resources, Incorporated
Analytical Chemists and Consultants

Organic Extractions Laboratory Analyst Notes

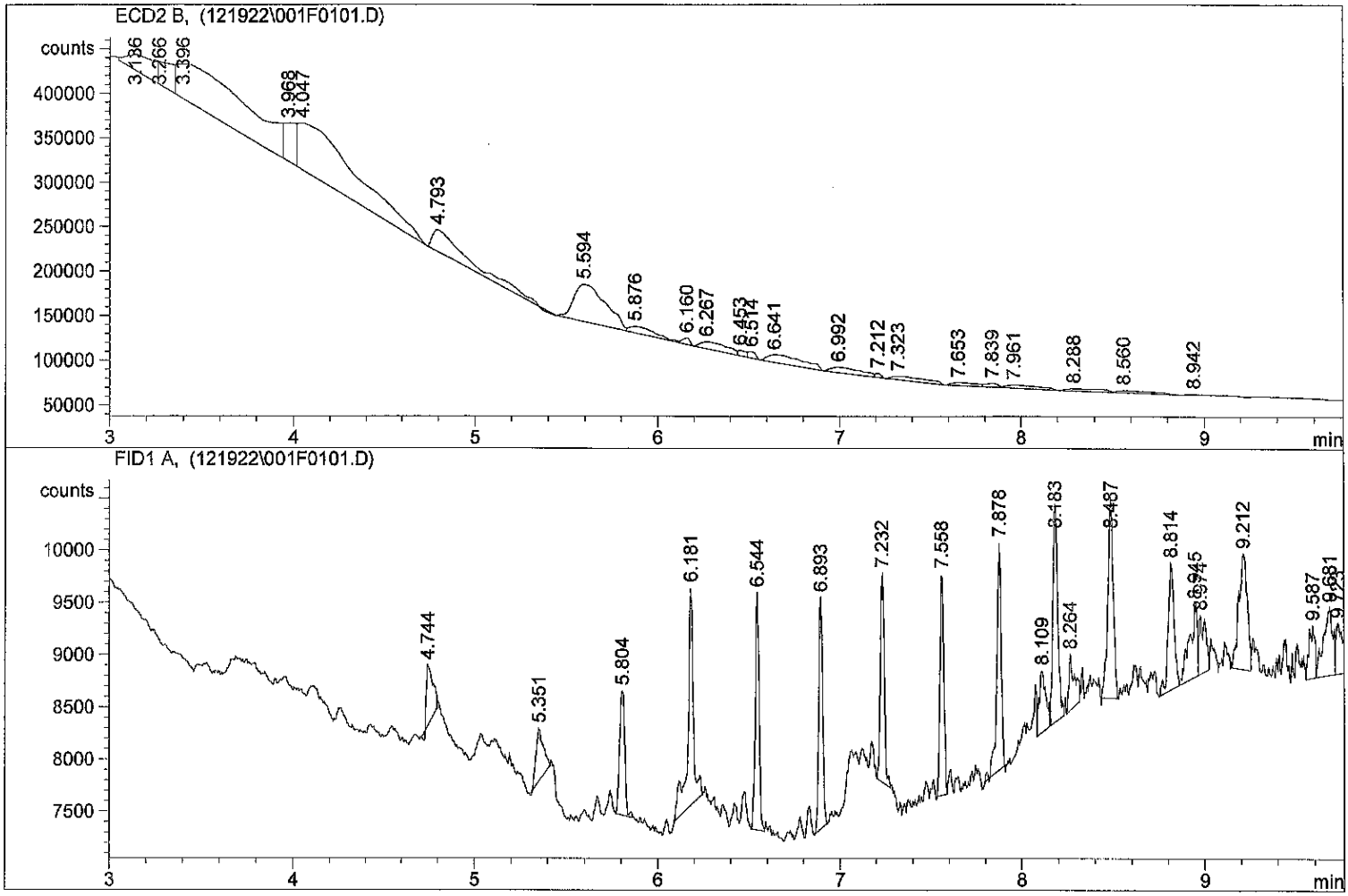
Extraction Parameter: _____ Extraction Batch _____

Total Solids Batch: BKL0402 Work Order(s): 22L0246 41-48

Screens: Soil/Sediment/Solid/Other:	Analyst/Date
☒ No Anomalies (standard soil/wet sediment/sand/gravel)= 41-48	CR 12/19/22
☒ Standing Water Decanted (Not shared)= 41,42	CR 12/19/22
☐ Standing Water Homogenized (Shared samples)=	
☐ Clay/Clumps (Difficult to homogenize)=	
☐ Rocks (%+size)?	
☐ Organics (Leaves/sticks/grass)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Received in 32oz jar(s)=Homogenized in Pyrex dish=	
☒ Previously Frozen = 41 - 48	CR 12/19/22
☐ Other (Details)=	
Aqueous:	
☐ No Anomalies	
☐ Turbid/Color=	
☐ Particulates(%)=(Note: >5%=Notify Supervisor/Lead)	
☐ Emulsions (%)=	
☐ Oily, obvious fuel/sulfur odors=	
☐ Other (Details)=	
☐ Received in 1.0L Bottle(s)=No Bottle Rinse=	
☐ Other Notes/Comments= (Note problems, concerns, corrective actions).	
☒ Share Samples Y / (N)	CR 12/19/22
☒ Multiple Jars Y (N)	CR 12/19/22
☐ Sample Pre-Screens indicate analyte activity=	
☐ Sample weights/volumes reduced based on Pre-Screen=	

Injection Date : 12/19/2022 4:25:07 PM Seq. Line : 1
Sample Name : DCM RINSE Location : Vial 1
Acq. Operator : CR Inj : 1
Inj Volume : 1 µl

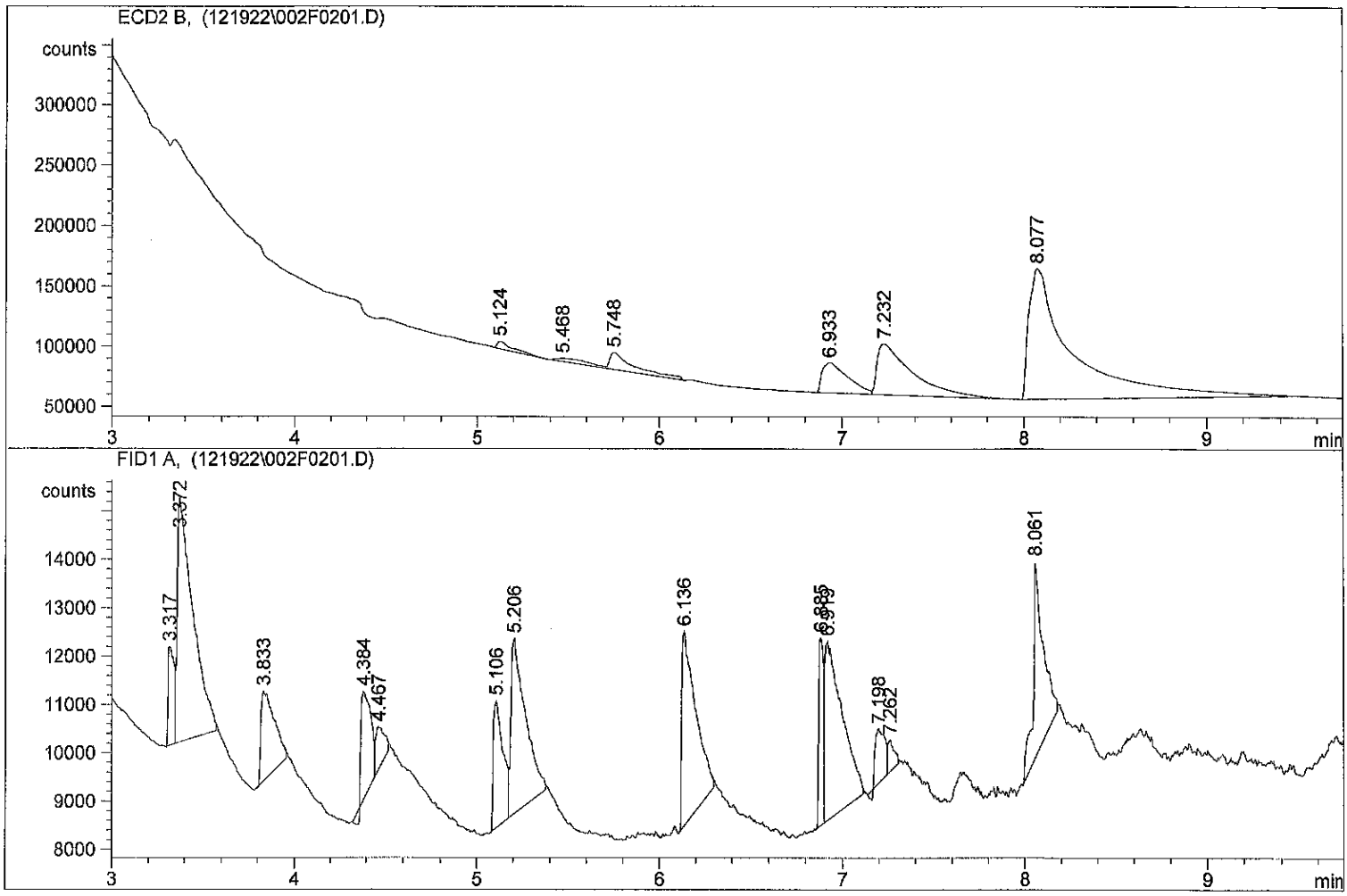
Sequence File : C:\HPCHEM\1\SEQUENCE\121922.S
Method : C:\HPCHEM\1\METHODS\SCREEN.M
Last changed : 7/9/2021 3:37:33 AM by TW
SCREEN METHOD



*** End of Report ***

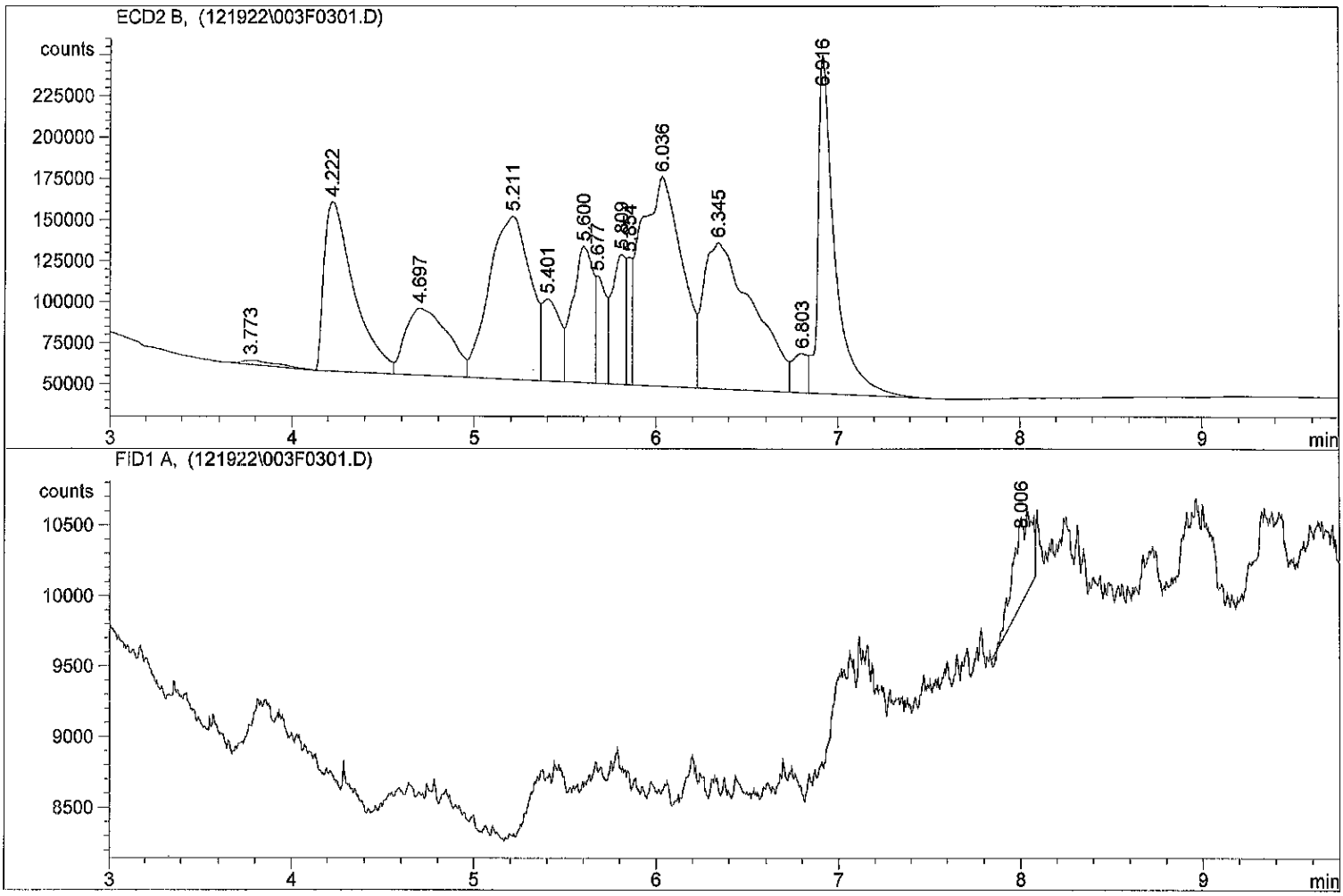
Data File C:\HPCHEM\1\DATA\121922\002F0201.D Sample Name: PNA STD 10PPM

Injection Date	: 12/19/2022 4:38:53 PM	Seq. Line	: 2
Sample Name	: PNA STD 10PPM	Location	: Vial 2
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



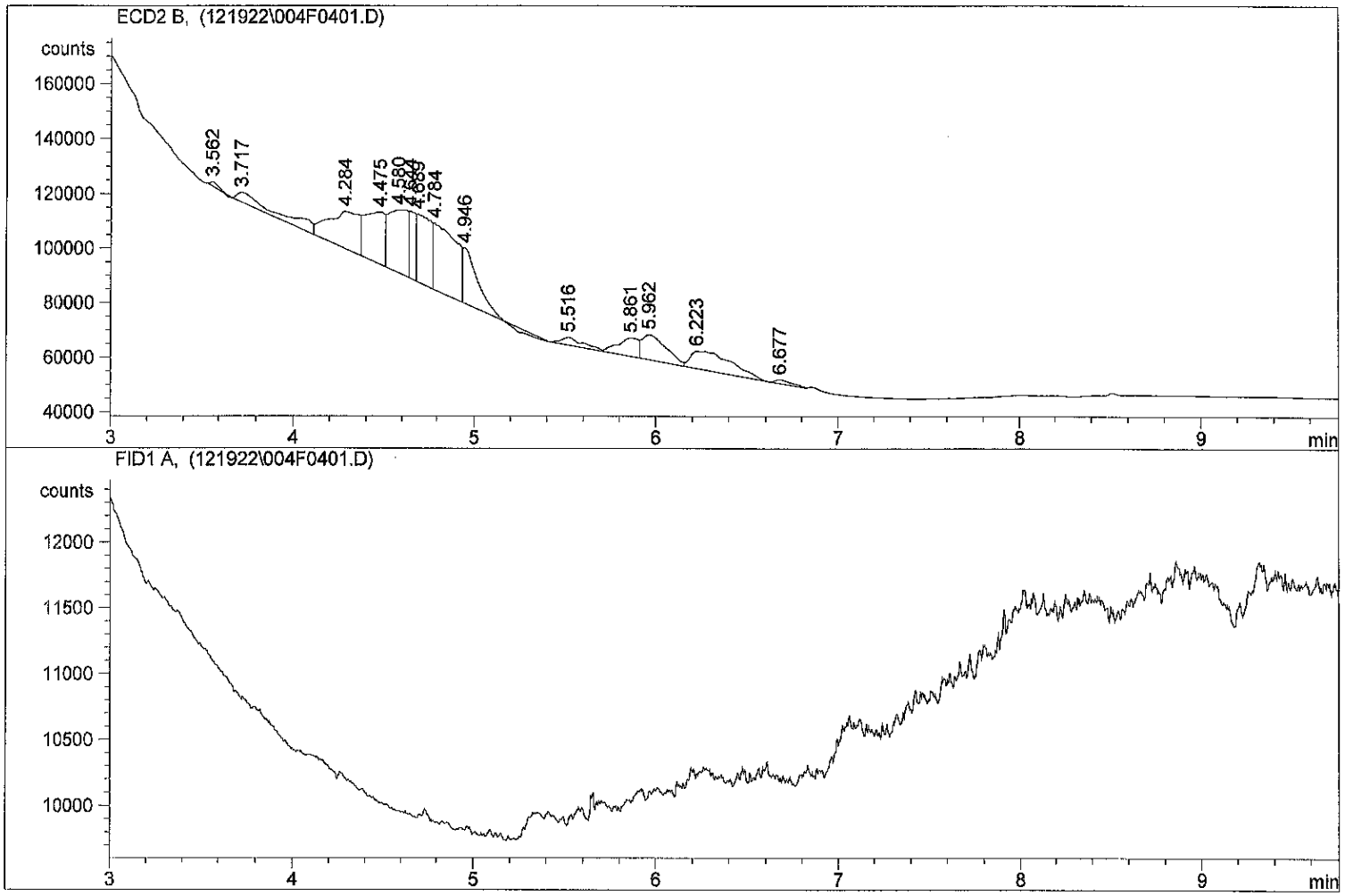
*** End of Report ***

Injection Date	: 12/19/2022 4:52:30 PM	Seq. Line :	3
Sample Name	: AR1660 1PPM	Location :	Vial 3
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



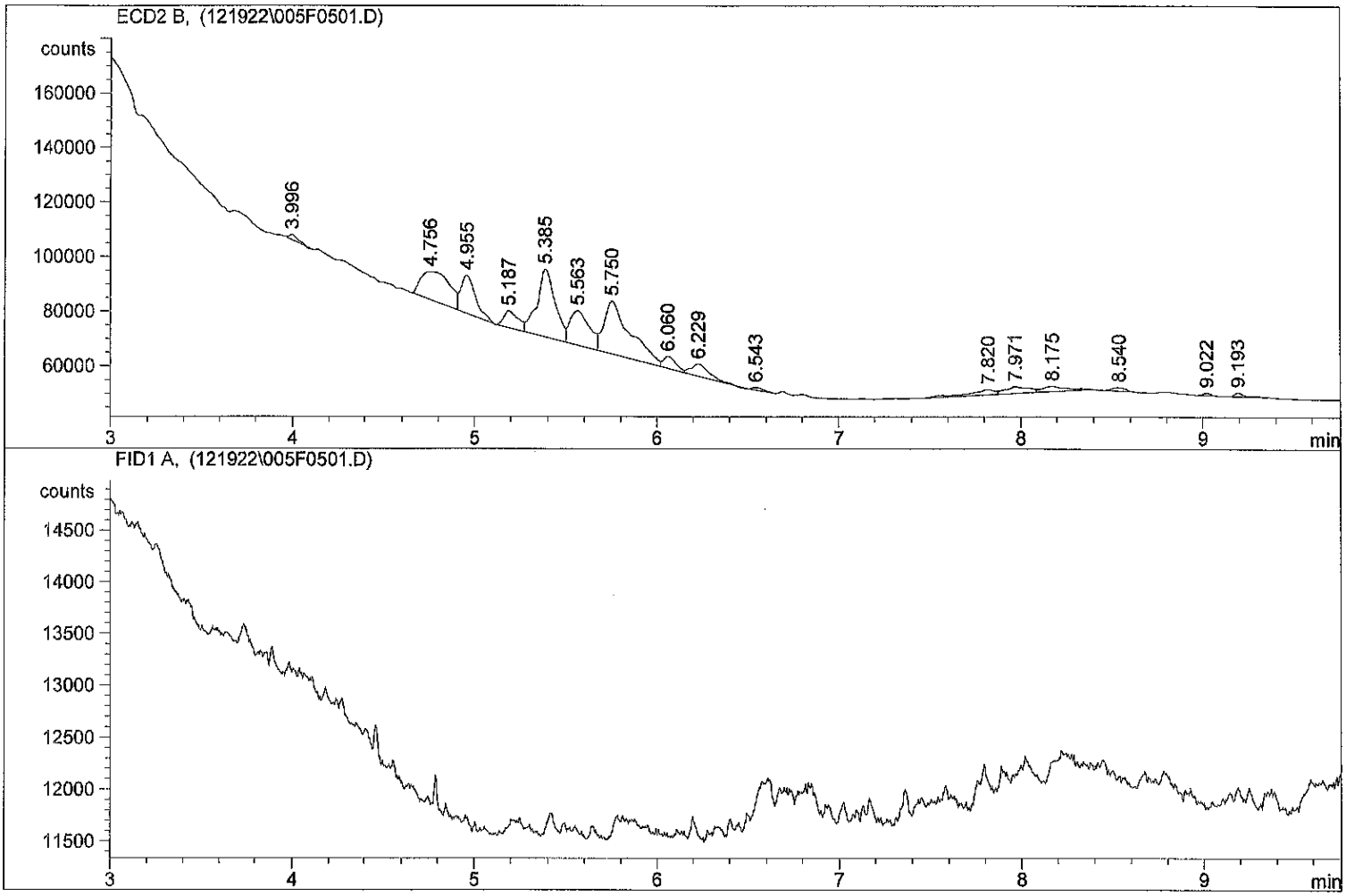
*** End of Report ***

Injection Date	: 12/19/2022 5:07:04 PM	Seq. Line :	4
Sample Name	: 22L0246 41	Location :	Vial 4
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

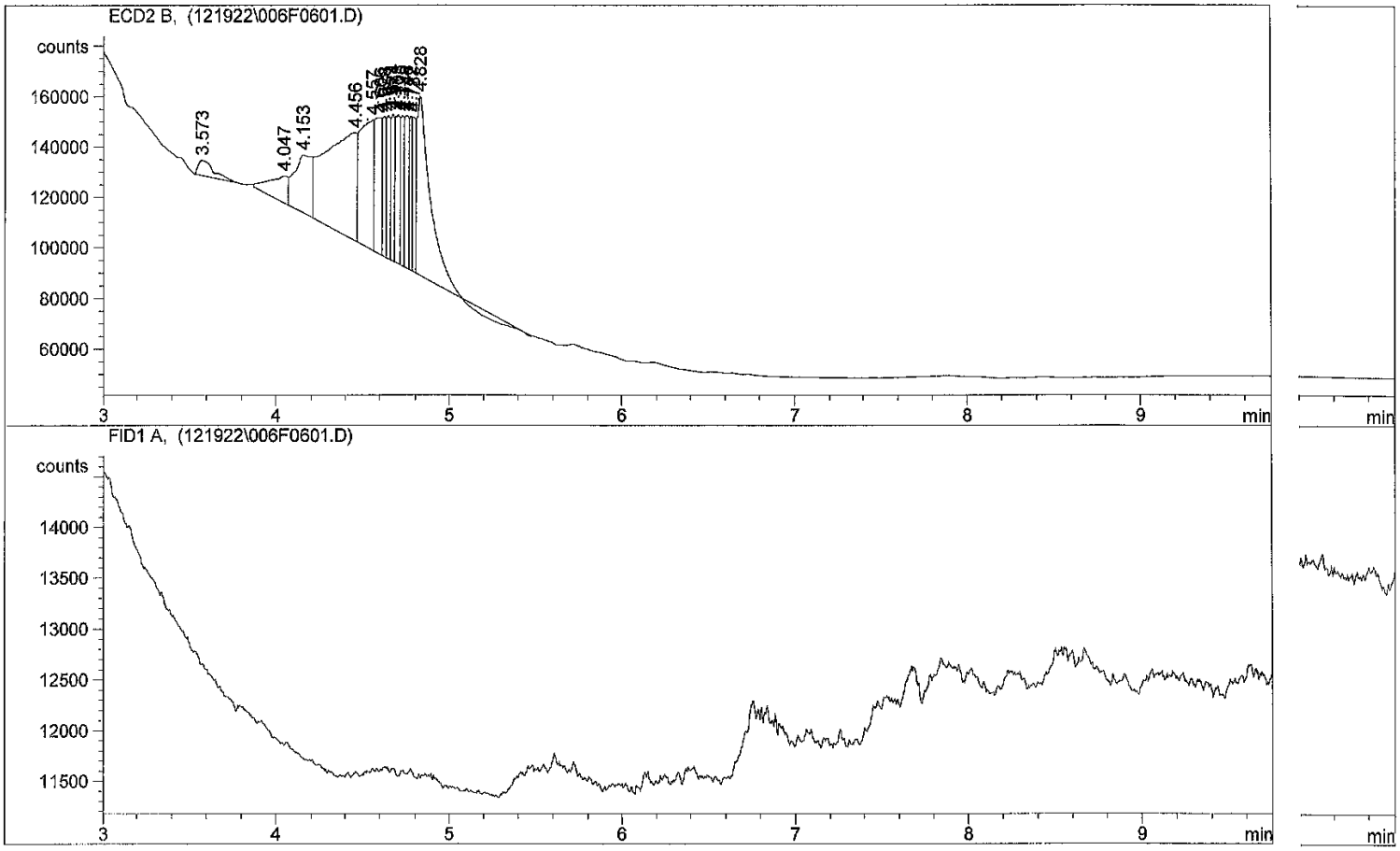
Injection Date	: 12/19/2022 5:21:40 PM	Seq. Line	: 5
Sample Name	: 22L0246 42	Location	: Vial 5
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

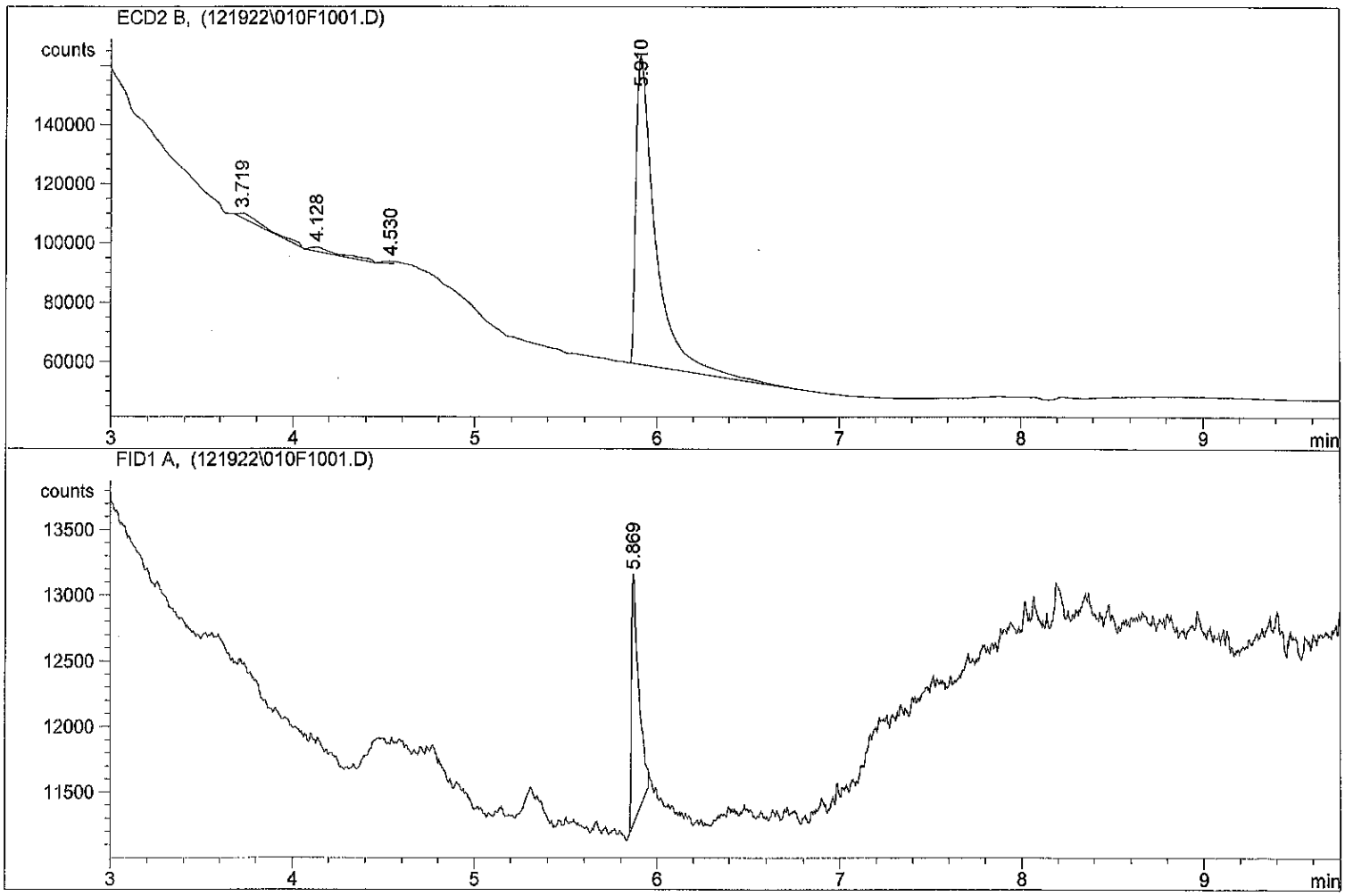
Data File C:\HPCHEM\1\DATA\121922\006F0601.D Sample Name: 22L0246 43 ,0246 44

Injection Date	: 12/19/2022 5:35:08 PM	Seq. Line :	6
Sample Name	: 22L0246 43	Location :	Vial 6
Acq. Operator	: CR	Inj :	1
		Inj Volume :	1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



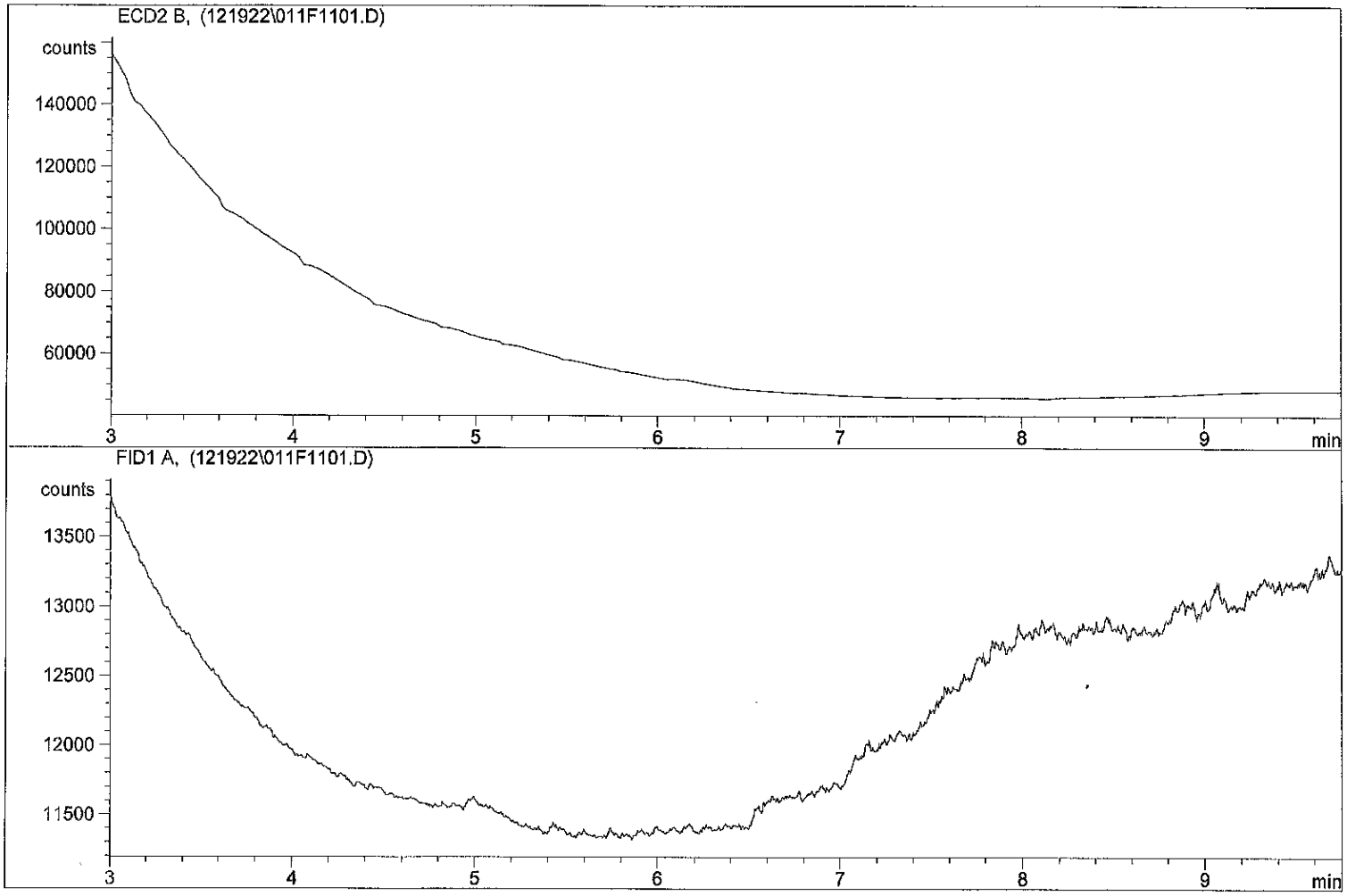
*** End of Report ***

Injection Date	: 12/19/2022 6:32:49 PM	Seq. Line	: 10
Sample Name	: 22L0246 47	Location	: Vial 10
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

Injection Date	: 12/19/2022 6:46:16 PM	Seq. Line	: 11
Sample Name	: 22L0246 48	Location	: Vial 11
Acq. Operator	: CR	Inj	: 1
		Inj Volume	: 1 µl
Sequence File	: C:\HPCHEM\1\SEQUENCE\121922.S		
Method	: C:\HPCHEM\1\METHODS\SCREEN.M		
Last changed	: 7/9/2021 3:37:33 AM by TW		
SCREEN METHOD			



*** End of Report ***

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0012	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT809B	22L0246-43	01042306ECD7.D	01/03/2023	
LDW22-IT809C	22L0246-44	01032342ECD7.D	01/03/2023	
LDW22-IT809D	22L0246-45	01032343ECD7.D	01/03/2023	
LDW22-IT809E	22L0246-46	01032344ECD7.D	01/03/2023	
LDW22-IT809F	22L0246-47	01032345ECD7.D	01/03/2023	
LDW22-IT809G	22L0246-48	01032346ECD7.D	01/03/2023	
Reference	BKL0571-SRM1	01032336ECD7.D	01/03/2023	
LDW22-IT809A	22L0246-42	01042305ECD7.D	01/03/2023	
LCS Dup	BKL0571-BSD1	01032334ECD7.D	01/03/2023	
Blank	BKL0571-BLK1	01032332ECD7.D	01/03/2023	
LCS	BKL0571-BS1	01032333ECD7.D	01/03/2023	
MRL Check	BKL0571-MRL1	01032335ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0571-MSD1	01032338ECD7.D	01/03/2023	
Matrix Spike	BKL0571-MS1	01032337ECD7.D	01/03/2023	
LDW22-SC759B	22L0246-41	01042304ECD7.D	01/03/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0012

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/3/2023 1:35:52PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-41	B	LDW22-SC759B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-42	C	LDW22-IT809A	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-43	C	LDW22-IT809B	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-44	C	LDW22-IT809C	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-45	C	LDW22-IT809D	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-46	C	LDW22-IT809E	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-47	C	LDW22-IT809F	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-48	C	LDW22-IT809G	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
BKL0571-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MRL1	-	MRL Check	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0013	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT809A	22L0246-42	01042305ECD7.D	01/03/2023	
LDW22-IT809B	22L0246-43	01042306ECD7.D	01/03/2023	
LDW22-IT809C	22L0246-44	01032342ECD7.D	01/03/2023	
LDW22-IT809D	22L0246-45	01032343ECD7.D	01/03/2023	
LDW22-IT809E	22L0246-46	01032344ECD7.D	01/03/2023	
LDW22-IT809F	22L0246-47	01032345ECD7.D	01/03/2023	
LDW22-IT809G	22L0246-48	01032346ECD7.D	01/03/2023	
LDW22-SC759B	22L0246-41	01042304ECD7.D	01/03/2023	
Matrix Spike	BKL0571-MS1	01032337ECD7.D	01/03/2023	
Reference	BKL0571-SRM1	01032336ECD7.D	01/03/2023	
Blank	BKL0571-BLK1	01032332ECD7.D	01/03/2023	
LCS Dup	BKL0571-BSD1	01032334ECD7.D	01/03/2023	
LCS	BKL0571-BS1	01032333ECD7.D	01/03/2023	
MRL Check	BKL0571-MRL1	01032335ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0571-MSD1	01032338ECD7.D	01/03/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0013

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/3/2023 1:37:10PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-41	B	LDW22-SC759B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-42	C	LDW22-IT809A	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-43	C	LDW22-IT809B	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-44	C	LDW22-IT809C	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-45	C	LDW22-IT809D	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-46	C	LDW22-IT809E	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-47	C	LDW22-IT809F	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-48	C	LDW22-IT809G	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
BKL0571-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MRL1	-	MRL Check	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	ZH	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0014	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
Matrix Spike	BKL0571-MS1	01032337ECD7.D	01/03/2023	
LDW22-IT809B	22L0246-43	01042306ECD7.D	01/03/2023	
LDW22-IT809A	22L0246-42	01042305ECD7.D	01/03/2023	
Reference	BKL0571-SRM1	01032336ECD7.D	01/03/2023	
MRL Check	BKL0571-MRL1	01032335ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0571-MSD1	01032338ECD7.D	01/03/2023	
LDW22-IT809D	22L0246-45	01032343ECD7.D	01/03/2023	
LDW22-SC759B	22L0246-41	01042304ECD7.D	01/03/2023	
LDW22-IT809G	22L0246-48	01032346ECD7.D	01/03/2023	
LDW22-IT809E	22L0246-46	01032344ECD7.D	01/03/2023	
LCS Dup	BKL0571-BSD1	01032334ECD7.D	01/03/2023	
LDW22-IT809C	22L0246-44	01032342ECD7.D	01/03/2023	
LCS	BKL0571-BS1	01032333ECD7.D	01/03/2023	
LDW22-IT809F	22L0246-47	01032345ECD7.D	01/03/2023	
Blank	BKL0571-BLK1	01032332ECD7.D	01/03/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0014

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/3/2023 1:38:23PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-41	B	LDW22-SC759B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-42	C	LDW22-IT809A	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-43	C	LDW22-IT809B	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-44	C	LDW22-IT809C	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-45	C	LDW22-IT809D	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-46	C	LDW22-IT809E	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-47	C	LDW22-IT809F	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
22L0246-48	C	LDW22-IT809G	C 02	2.5	2.5	8082A PCB Solid 4	1/3/2023	ZH	
BKL0571-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MRL1	-	MRL Check	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	ZH	
BKL0571-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	ZH	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0015	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC777I	22L0246-34	01092348ECD7.D	01/03/2023	
LDW22-SC759E	22L0246-37	01042346ECD7.D	01/03/2023	
LDW22-SC759F	22L0246-38	01042347ECD7.D	01/03/2023	
LDW22-SC759G	22L0246-39	01042348ECD7.D	01/03/2023	
LDW22-SC759H	22L0246-40	01042349ECD7.D	01/03/2023	
LDW22-SC777A	22L0246-26	01042333ECD7.D	01/03/2023	
LDW22-SC777B	22L0246-27	01042334ECD7.D	01/03/2023	
LDW22-SC777C	22L0246-28	01092342ECD7.D	01/03/2023	
LDW22-SC777D	22L0246-29	01092343ECD7.D	01/03/2023	
LDW22-SC777E	22L0246-30	01042337ECD7.D	01/03/2023	
LDW22-SC759D	22L0246-36	01092347ECD7.D	01/03/2023	
LDW22-SC777H	22L0246-33	01042342ECD7.D	01/03/2023	
LDW22-SC779H	22L0246-23	01042330ECD7.D	01/03/2023	
LDW22-SC779J	22L0246-25	01042332ECD7.D	01/03/2023	
LDW22-SC779F	22L0246-21	01052363ECD7.D	01/03/2023	
LDW22-SC779G	22L0246-22	01052364ECD7.D	01/03/2023	
LDW22-SC779I	22L0246-24	01042331ECD7.D	01/03/2023	
LDW22-SC759C	22L0246-35	01092346ECD7.D	01/03/2023	
LDW22-SC777F	22L0246-31	01042340ECD7.D	01/03/2023	
Blank	BKL0492-BLK1	01042322ECD7.D	01/03/2023	
LCS	BKL0492-BS1	01042323ECD7.D	01/03/2023	
LCS Dup	BKL0492-BSD1	01042324ECD7.D	01/03/2023	
Matrix Spike	BKL0492-MS1	01042326ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0492-MSD1	01042327ECD7.D	01/03/2023	
Reference	BKL0492-SRM1	01042325ECD7.D	01/03/2023	
LDW22-SC777G	22L0246-32	01042341ECD7.D	01/03/2023	

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CLEANUP BENCH SHEET

CLA0015

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/3/2023 4:18:39PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-21	B	LDW22-SC779F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-22	B	LDW22-SC779G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-23	B	LDW22-SC779H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-24	B	LDW22-SC779I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-25	B	LDW22-SC779J	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-26	B	LDW22-SC777A	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-27	B	LDW22-SC777B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-28	B	LDW22-SC777C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-29	B	LDW22-SC777D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-30	B	LDW22-SC777E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-31	B	LDW22-SC777F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-32	B	LDW22-SC777G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-33	B	LDW22-SC777H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-34	B	LDW22-SC777I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-35	B	LDW22-SC759C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-36	B	LDW22-SC759D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-37	B	LDW22-SC759E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-38	B	LDW22-SC759F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-39	B	LDW22-SC759G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-40	B	LDW22-SC759H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
BKL0492-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	LMJ	

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CLEANUP BENCH SHEET

CLA0015

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/3/2023 4:18:39PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0492-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	LMJ	

Analytical Resources, LLC
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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0016	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC779J	22L0246-25	01042332ECD7.D	01/03/2023	
LDW22-SC759H	22L0246-40	01042349ECD7.D	01/03/2023	
LDW22-SC777A	22L0246-26	01042333ECD7.D	01/03/2023	
LDW22-SC777B	22L0246-27	01042334ECD7.D	01/03/2023	
LDW22-SC759G	22L0246-39	01042348ECD7.D	01/03/2023	
LDW22-SC777D	22L0246-29	01092343ECD7.D	01/03/2023	
LDW22-SC777E	22L0246-30	01042337ECD7.D	01/03/2023	
LDW22-SC777H	22L0246-33	01042342ECD7.D	01/03/2023	
LDW22-SC777I	22L0246-34	01092348ECD7.D	01/03/2023	
LDW22-SC779F	22L0246-21	01052363ECD7.D	01/03/2023	
LDW22-SC779G	22L0246-22	01052364ECD7.D	01/03/2023	
LDW22-SC777F	22L0246-31	01042340ECD7.D	01/03/2023	
LDW22-SC779I	22L0246-24	01042331ECD7.D	01/03/2023	
LDW22-SC759E	22L0246-37	01042346ECD7.D	01/03/2023	
LDW22-SC777C	22L0246-28	01092342ECD7.D	01/03/2023	
Matrix Spike	BKL0492-MS1	01042326ECD7.D	01/03/2023	
LDW22-SC759F	22L0246-38	01042347ECD7.D	01/03/2023	
LDW22-SC777G	22L0246-32	01042341ECD7.D	01/03/2023	
Reference	BKL0492-SRM1	01042325ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0492-MSD1	01042327ECD7.D	01/03/2023	
LCS Dup	BKL0492-BSD1	01042324ECD7.D	01/03/2023	
LCS	BKL0492-BS1	01042323ECD7.D	01/03/2023	
Blank	BKL0492-BLK1	01042322ECD7.D	01/03/2023	
LDW22-SC759C	22L0246-35	01092346ECD7.D	01/03/2023	
LDW22-SC759D	22L0246-36	01092347ECD7.D	01/03/2023	
LDW22-SC779H	22L0246-23	01042330ECD7.D	01/03/2023	

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CLEANUP BENCH SHEET

CLA0016

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/3/2023 4:19:42PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-21	B	LDW22-SC779F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-22	B	LDW22-SC779G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-23	B	LDW22-SC779H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-24	B	LDW22-SC779I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-25	B	LDW22-SC779J	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-26	B	LDW22-SC777A	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-27	B	LDW22-SC777B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-28	B	LDW22-SC777C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-29	B	LDW22-SC777D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-30	B	LDW22-SC777E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-31	B	LDW22-SC777F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-32	B	LDW22-SC777G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-33	B	LDW22-SC777H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-34	B	LDW22-SC777I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-35	B	LDW22-SC759C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-36	B	LDW22-SC759D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-37	B	LDW22-SC759E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-38	B	LDW22-SC759F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-39	B	LDW22-SC759G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-40	B	LDW22-SC759H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
BKL0492-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	LMJ	

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CLEANUP BENCH SHEET

CLA0016

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/3/2023 4:19:42PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0492-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	LMJ	

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CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0017	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC777A	22L0246-26	01042333ECD7.D	01/03/2023	
LDW22-SC777F	22L0246-31	01042340ECD7.D	01/03/2023	
LDW22-SC777D	22L0246-29	01092343ECD7.D	01/03/2023	
LDW22-SC777E	22L0246-30	01042337ECD7.D	01/03/2023	
LDW22-SC777C	22L0246-28	01092342ECD7.D	01/03/2023	
LDW22-SC777G	22L0246-32	01042341ECD7.D	01/03/2023	
LDW22-SC779J	22L0246-25	01042332ECD7.D	01/03/2023	
LDW22-SC779I	22L0246-24	01042331ECD7.D	01/03/2023	
LDW22-SC777B	22L0246-27	01042334ECD7.D	01/03/2023	
LDW22-SC779G	22L0246-22	01052364ECD7.D	01/03/2023	
LDW22-SC759C	22L0246-35	01092346ECD7.D	01/03/2023	
LDW22-SC779F	22L0246-21	01052363ECD7.D	01/03/2023	
LDW22-SC779H	22L0246-23	01042330ECD7.D	01/03/2023	
LDW22-SC759E	22L0246-37	01042346ECD7.D	01/03/2023	
LDW22-SC759H	22L0246-40	01042349ECD7.D	01/03/2023	
LDW22-SC759G	22L0246-39	01042348ECD7.D	01/03/2023	
LDW22-SC759F	22L0246-38	01042347ECD7.D	01/03/2023	
LDW22-SC759D	22L0246-36	01092347ECD7.D	01/03/2023	
Reference	BKL0492-SRM1	01042325ECD7.D	01/03/2023	
Matrix Spike Dup	BKL0492-MSD1	01042327ECD7.D	01/03/2023	
Matrix Spike	BKL0492-MS1	01042326ECD7.D	01/03/2023	
LCS Dup	BKL0492-BSD1	01042324ECD7.D	01/03/2023	
LCS	BKL0492-BS1	01042323ECD7.D	01/03/2023	
Blank	BKL0492-BLK1	01042322ECD7.D	01/03/2023	
LDW22-SC777H	22L0246-33	01042342ECD7.D	01/03/2023	
LDW22-SC777I	22L0246-34	01092348ECD7.D	01/03/2023	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CLA0017

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/3/2023 4:20:48PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-21	B	LDW22-SC779F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-22	B	LDW22-SC779G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-23	B	LDW22-SC779H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-24	B	LDW22-SC779I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-25	B	LDW22-SC779J	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-26	B	LDW22-SC777A	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-27	B	LDW22-SC777B	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-28	B	LDW22-SC777C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-29	B	LDW22-SC777D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-30	B	LDW22-SC777E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-31	B	LDW22-SC777F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-32	B	LDW22-SC777G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-33	B	LDW22-SC777H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-34	B	LDW22-SC777I	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-35	B	LDW22-SC759C	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-36	B	LDW22-SC759D	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-37	B	LDW22-SC759E	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-38	B	LDW22-SC759F	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-39	B	LDW22-SC759G	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
22L0246-40	B	LDW22-SC759H	B 01	2.5	2.5	8082A PCB Solid 4	1/3/2023	LMJ	
BKL0492-BLK1	-	Blank	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-BS1	-	LCS	-	2.5	2.5	-	1/3/2023	LMJ	

Analytical Resources, LLC
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CLEANUP BENCH SHEET

CLA0017

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/3/2023 4:20:48PM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0492-BSD1	-	LCS Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MS1	-	Matrix Spike	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/3/2023	LMJ	
BKL0492-SRM1	-	Reference	-	2.5	2.5	-	1/3/2023	LMJ	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0027	Cleanup Type:	Sulfur
Cleanup Method:	EPA 3660B Sulfur Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778F	22L0246-06	01052365ECD7.D	01/04/2023	
LDW22-SC779D-FD	22L0246-19	01092338ECD7.D	01/04/2023	
LDW22-IT810A	22L0246-07	01052366ECD7.D	01/04/2023	
LDW22-SC779B	22L0246-16	01052326ECD7.D	01/04/2023	
Blank	BKL0490-BLK1	01042359ECD7.D	01/04/2023	
LCS	BKL0490-BS1	01042360ECD7.D	01/04/2023	
LCS Dup	BKL0490-BSD1	01042361ECD7.D	01/04/2023	
Matrix Spike	BKL0490-MS1	01042363ECD7.D	01/04/2023	
Matrix Spike Dup	BKL0490-MSD1	01042364ECD7.D	01/04/2023	
Reference	BKL0490-SRM1	01042362ECD7.D	01/04/2023	
LDW22-SC779E	22L0246-20	01092339ECD7.D	01/04/2023	
LDW22-SC779D	22L0246-18	01092337ECD7.D	01/04/2023	
LDW22-SC779A	22L0246-15	01052325ECD7.D	01/04/2023	
LDW22-SC778D	22L0246-04	01092350ECD7.D	01/04/2023	
LDW22-SC778B	22L0246-01	01092349ECD7.D	01/04/2023	
LDW22-IT810B	22L0246-08	01042372ECD7.D	01/04/2023	
LDW22-IT810B-FD	22L0246-10	01042374ECD7.D	01/04/2023	
LDW22-IT810C	22L0246-09	01052368ECD7.D	01/04/2023	
LDW22-IT810D	22L0246-11	01052321ECD7.D	01/04/2023	
LDW22-IT810E	22L0246-12	01052322ECD7.D	01/04/2023	
LDW22-IT810F	22L0246-13	01052323ECD7.D	01/04/2023	
LDW22-IT810G	22L0246-14	01052324ECD7.D	01/04/2023	
LDW22-SC778E	22L0246-05	01042369ECD7.D	01/04/2023	
LDW22-SC778C	22L0246-02	01092351ECD7.D	01/04/2023	
LDW22-SC778C-FD	22L0246-03	01092352ECD7.D	01/04/2023	
LDW22-SC779C	22L0246-17	01052327ECD7.D	01/04/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0027

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/4/2023 11:49:29AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-01	B	LDW22-SC778B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-02	B	LDW22-SC778C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-03	B	LDW22-SC778C-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-04	B	LDW22-SC778D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-05	B	LDW22-SC778E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-06	B	LDW22-SC778F	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-07	C	LDW22-IT810A	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-08	C	LDW22-IT810B	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-09	C	LDW22-IT810C	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-10	C	LDW22-IT810B-FD	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-11	C	LDW22-IT810D	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-12	C	LDW22-IT810E	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-13	C	LDW22-IT810F	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-14	C	LDW22-IT810G	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-15	B	LDW22-SC779A	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-16	B	LDW22-SC779B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-17	B	LDW22-SC779C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-18	B	LDW22-SC779D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-19	B	LDW22-SC779D-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-20	B	LDW22-SC779E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
BKL0490-BLK1	-	Blank	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-BS1	-	LCS	-	2.5	2.5	-	1/4/2023	LMJ	

CLEANUP BENCH SHEET

CLA0027

Matrix: Solid **Cleanup using: Organics - EPA 3660B Sulfur Cleanup - uL** **Printed: 1/4/2023 11:49:29AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0490-BSD1	-	LCS Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MS1	-	Matrix Spike	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-SRM1	-	Reference	-	2.5	2.5	-	1/4/2023	LMJ	

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0028	Cleanup Type:	Silica Gel
Cleanup Method:	EPA 3660C Silica Gel Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778B	22L0246-01	01092349ECD7.D	01/04/2023	
LCS Dup	BKL0490-BSD1	01042361ECD7.D	01/04/2023	
Matrix Spike	BKL0490-MS1	01042363ECD7.D	01/04/2023	
Reference	BKL0490-SRM1	01042362ECD7.D	01/04/2023	
Matrix Spike Dup	BKL0490-MSD1	01042364ECD7.D	01/04/2023	
LDW22-SC779C	22L0246-17	01052327ECD7.D	01/04/2023	
LDW22-SC779D-FD	22L0246-19	01092338ECD7.D	01/04/2023	
LDW22-SC779E	22L0246-20	01092339ECD7.D	01/04/2023	
LDW22-SC779D	22L0246-18	01092337ECD7.D	01/04/2023	
Blank	BKL0490-BLK1	01042359ECD7.D	01/04/2023	
LDW22-IT810A	22L0246-07	01052366ECD7.D	01/04/2023	
LCS	BKL0490-BS1	01042360ECD7.D	01/04/2023	
LDW22-SC779B	22L0246-16	01052326ECD7.D	01/04/2023	
LDW22-SC779A	22L0246-15	01052325ECD7.D	01/04/2023	
LDW22-IT810G	22L0246-14	01052324ECD7.D	01/04/2023	
LDW22-IT810F	22L0246-13	01052323ECD7.D	01/04/2023	
LDW22-IT810E	22L0246-12	01052322ECD7.D	01/04/2023	
LDW22-IT810D	22L0246-11	01052321ECD7.D	01/04/2023	
LDW22-IT810C	22L0246-09	01052368ECD7.D	01/04/2023	
LDW22-IT810B-FD	22L0246-10	01042374ECD7.D	01/04/2023	
LDW22-SC778C-FD	22L0246-03	01092352ECD7.D	01/04/2023	
LDW22-IT810B	22L0246-08	01042372ECD7.D	01/04/2023	
LDW22-SC778D	22L0246-04	01092350ECD7.D	01/04/2023	
LDW22-SC778E	22L0246-05	01042369ECD7.D	01/04/2023	
LDW22-SC778F	22L0246-06	01052365ECD7.D	01/04/2023	
LDW22-SC778C	22L0246-02	01092351ECD7.D	01/04/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0028

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/4/2023 11:50:15AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-01	B	LDW22-SC778B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-02	B	LDW22-SC778C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-03	B	LDW22-SC778C-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-04	B	LDW22-SC778D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-05	B	LDW22-SC778E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-06	B	LDW22-SC778F	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-07	C	LDW22-IT810A	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-08	C	LDW22-IT810B	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-09	C	LDW22-IT810C	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-10	C	LDW22-IT810B-FD	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-11	C	LDW22-IT810D	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-12	C	LDW22-IT810E	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-13	C	LDW22-IT810F	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-14	C	LDW22-IT810G	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-15	B	LDW22-SC779A	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-16	B	LDW22-SC779B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-17	B	LDW22-SC779C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-18	B	LDW22-SC779D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-19	B	LDW22-SC779D-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-20	B	LDW22-SC779E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
BKL0490-BLK1	-	Blank	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-BS1	-	LCS	-	2.5	2.5	-	1/4/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0028

Matrix: Solid **Cleanup using: Organics - EPA 3660C Silica Gel Cleanup - uL** **Printed: 1/4/2023 11:50:15AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0490-BSD1	-	LCS Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MS1	-	Matrix Spike	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-SRM1	-	Reference	-	2.5	2.5	-	1/4/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BATCH SUMMARY

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Cleanup Batch:	CLA0029	Cleanup Type:	Sulfuric Acid
Cleanup Method:	EPA 3665 Sulfuric Acid Cleanup - uL	Analysis:	EPA 8082A

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810F	22L0246-13	01052323ECD7.D	01/04/2023	
Blank	BKL0490-BLK1	01042359ECD7.D	01/04/2023	
LCS	BKL0490-BS1	01042360ECD7.D	01/04/2023	
LCS Dup	BKL0490-BSD1	01042361ECD7.D	01/04/2023	
Matrix Spike	BKL0490-MS1	01042363ECD7.D	01/04/2023	
Matrix Spike Dup	BKL0490-MSD1	01042364ECD7.D	01/04/2023	
Reference	BKL0490-SRM1	01042362ECD7.D	01/04/2023	
LDW22-SC778C-FD	22L0246-03	01092352ECD7.D	01/04/2023	
LDW22-IT810B	22L0246-08	01042372ECD7.D	01/04/2023	
LDW22-IT810B-FD	22L0246-10	01042374ECD7.D	01/04/2023	
LDW22-IT810C	22L0246-09	01052368ECD7.D	01/04/2023	
LDW22-SC779C	22L0246-17	01052327ECD7.D	01/04/2023	
LDW22-IT810E	22L0246-12	01052322ECD7.D	01/04/2023	
LDW22-SC778B	22L0246-01	01092349ECD7.D	01/04/2023	
LDW22-IT810G	22L0246-14	01052324ECD7.D	01/04/2023	
LDW22-SC779D-FD	22L0246-19	01092338ECD7.D	01/04/2023	
LDW22-SC778C	22L0246-02	01092351ECD7.D	01/04/2023	
LDW22-SC779E	22L0246-20	01092339ECD7.D	01/04/2023	
LDW22-SC778D	22L0246-04	01092350ECD7.D	01/04/2023	
LDW22-SC778E	22L0246-05	01042369ECD7.D	01/04/2023	
LDW22-SC778F	22L0246-06	01052365ECD7.D	01/04/2023	
LDW22-SC779A	22L0246-15	01052325ECD7.D	01/04/2023	
LDW22-SC779B	22L0246-16	01052326ECD7.D	01/04/2023	
LDW22-SC779D	22L0246-18	01092337ECD7.D	01/04/2023	
LDW22-IT810A	22L0246-07	01052366ECD7.D	01/04/2023	
LDW22-IT810D	22L0246-11	01052321ECD7.D	01/04/2023	

Analytical Resources, LLC
Analytical Chemists and Consultants

CLEANUP BENCH SHEET

CLA0029

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/4/2023 11:51:02AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
22L0246-01	B	LDW22-SC778B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-02	B	LDW22-SC778C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-03	B	LDW22-SC778C-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-04	B	LDW22-SC778D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-05	B	LDW22-SC778E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-06	B	LDW22-SC778F	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-07	C	LDW22-IT810A	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-08	C	LDW22-IT810B	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-09	C	LDW22-IT810C	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-10	C	LDW22-IT810B-FD	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-11	C	LDW22-IT810D	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-12	C	LDW22-IT810E	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-13	C	LDW22-IT810F	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-14	C	LDW22-IT810G	C 02	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-15	B	LDW22-SC779A	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-16	B	LDW22-SC779B	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-17	B	LDW22-SC779C	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-18	B	LDW22-SC779D	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-19	B	LDW22-SC779D-FD	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
22L0246-20	B	LDW22-SC779E	B 01	2.5	2.5	8082A PCB Solid 4	1/4/2023	LMJ	
BKL0490-BLK1	-	Blank	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-BS1	-	LCS	-	2.5	2.5	-	1/4/2023	LMJ	

CLEANUP BENCH SHEET

CLA0029

Matrix: Solid **Cleanup using: Organics - EPA 3665 Sulfuric Acid Cleanup - uL** **Printed: 1/4/2023 11:51:02AM**

Lab Number	Sample Container	Sample Name	Extract Container	Initial (uL)	Final (uL)	Analysis	Clean Up Date	Cleaned By	Cleanup Comments
BKL0490-BSD1	-	LCS Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MS1	-	Matrix Spike	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-MSD1	-	Matrix Spike Dup	-	2.5	2.5	-	1/4/2023	LMJ	
BKL0490-SRM1	-	Reference	-	2.5	2.5	-	1/4/2023	LMJ	

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0490-BLK1	File ID:	01042359ECD7.D
Sampled:	N/A	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 05:47
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0490	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	9.05	113	40 - 126	
Tetrachlorometaxylene	8.0000	6.80	85.0	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.69	109	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	6.43	80.4	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042359ECD7.D
Data file 2: /230104.b/230104.b/01042359ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-BLK1
Client ID:
Injection Date: 05-JAN-2023 05:47
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	250559	5.706	-0.001	156789	34.0	32.1	5.6	Tetrachloro-m-xylene
13.902	0.000	466368	14.127	-0.001	371755	45.2	43.4	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	520322	16.2
Hexabromobiphenyl	798898	1124373	40.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	355825	42.8
Hexabromobiphenyl	362541	602728	66.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 91626 Col1 Total PCB = 0.0 ppm*

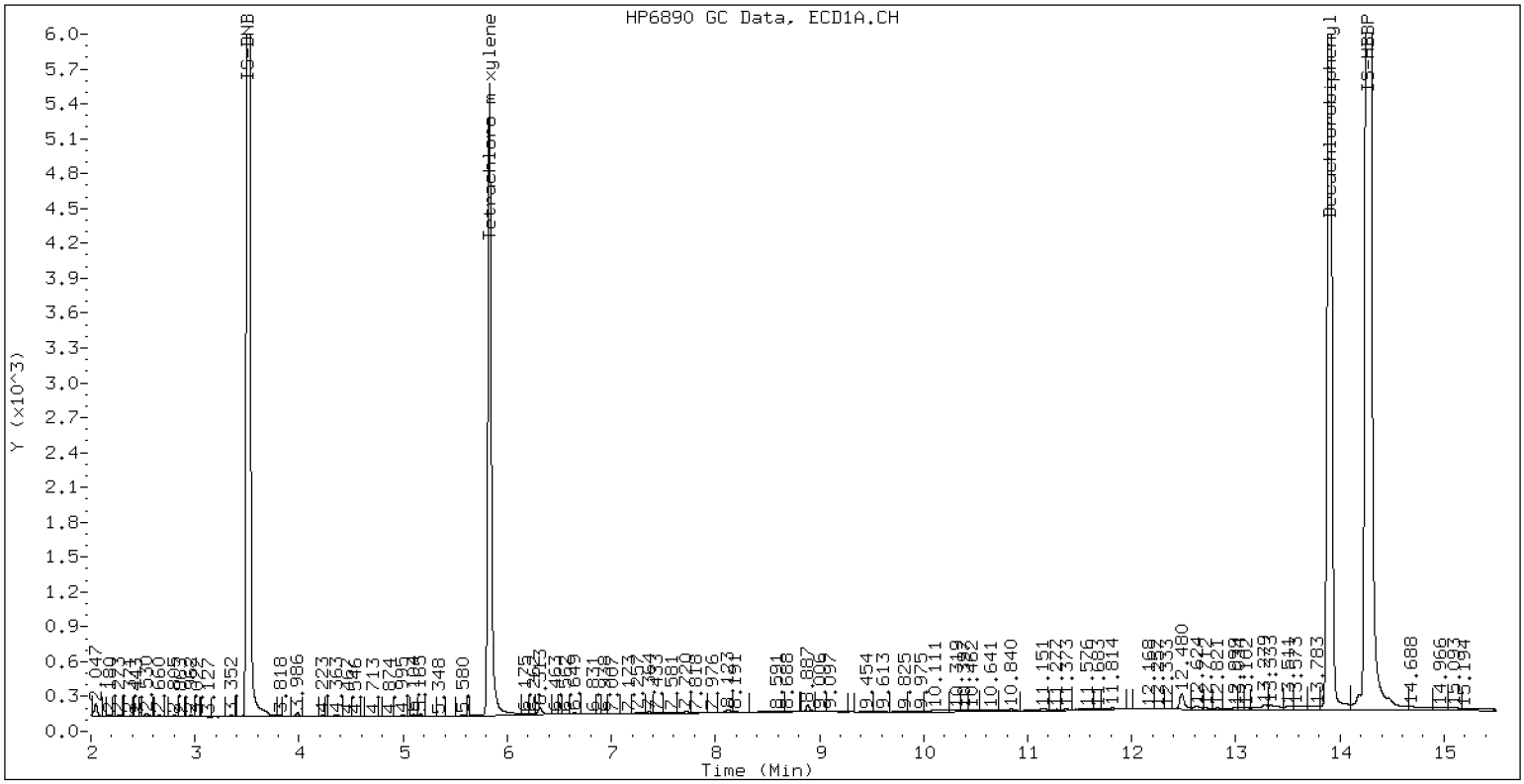
Total PCB Area Col2 (5.807 - 14.028) = 16790 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

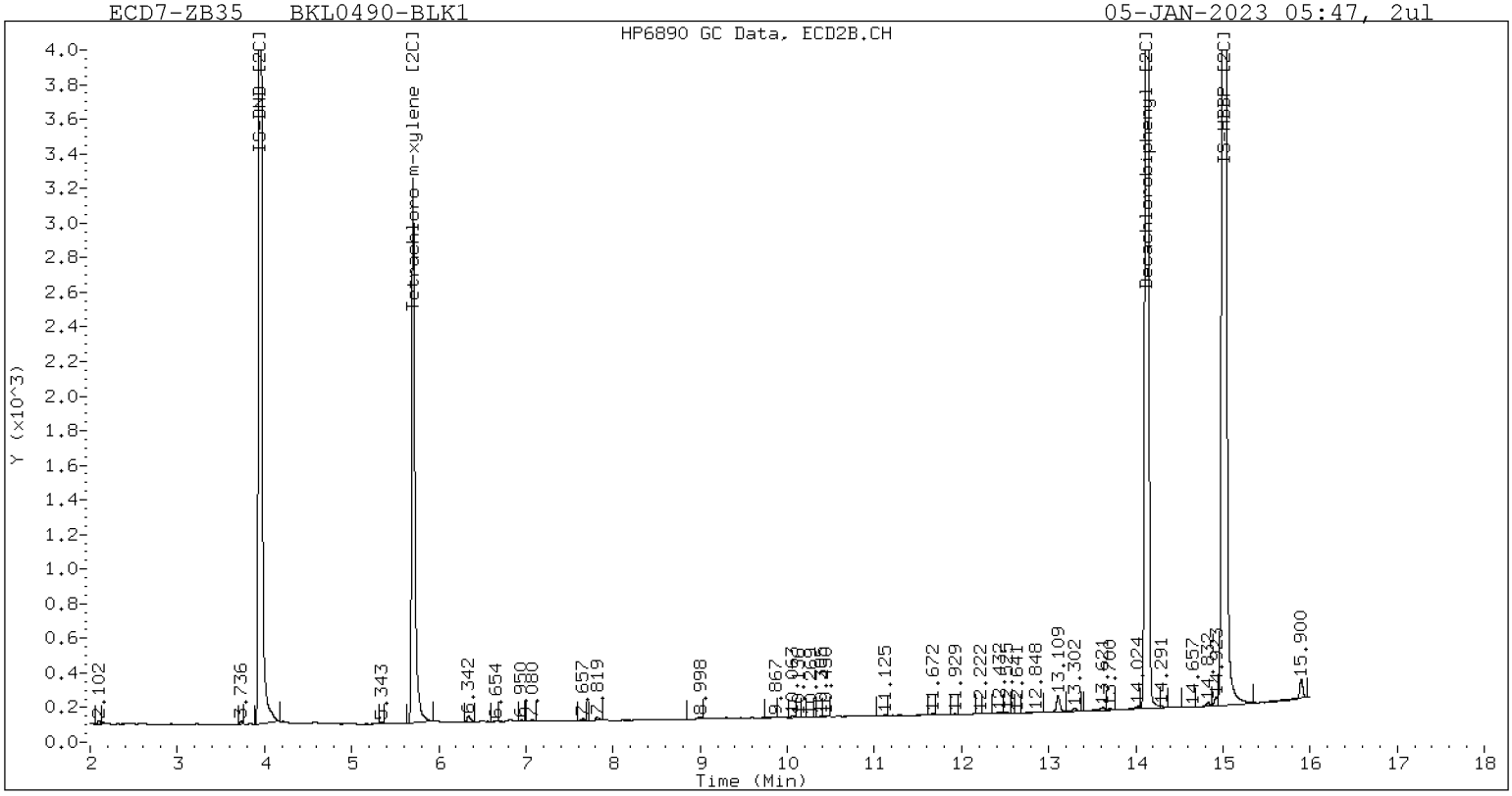
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-BLK1 05-JAN-2023 05:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-BLK1 05-JAN-2023 05:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0492-BLK1	File ID:	01042322ECD7.D
Sampled:	N/A	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 16:46
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0492	Sequence:	SLA0094	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	8.74	109	40 - 126	
Tetrachlorometaxylene	8.0000	6.32	79.0	44 - 120	
Decachlorobiphenyl [2C]	8.0000	8.22	103	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	5.99	74.8	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042322ECD7.D
Data file 2: /230104.b/230104.b/01042322ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-BLK1
Client ID:
Injection Date: 04-JAN-2023 16:46
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	233549	5.709	0.002	146770	31.6	29.9	5.4	Tetrachloro-m-xylene
13.903	0.002	471238	14.127	-0.001	350939	43.7	41.1	6.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	521440	16.5
Hexabromobiphenyl	798898	1176440	47.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	357636	43.6
Hexabromobiphenyl	362541	601278	65.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	ZB5 Col Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.930 - 13.802) = 101285 Col1 Total PCB = 0.0 ppm*

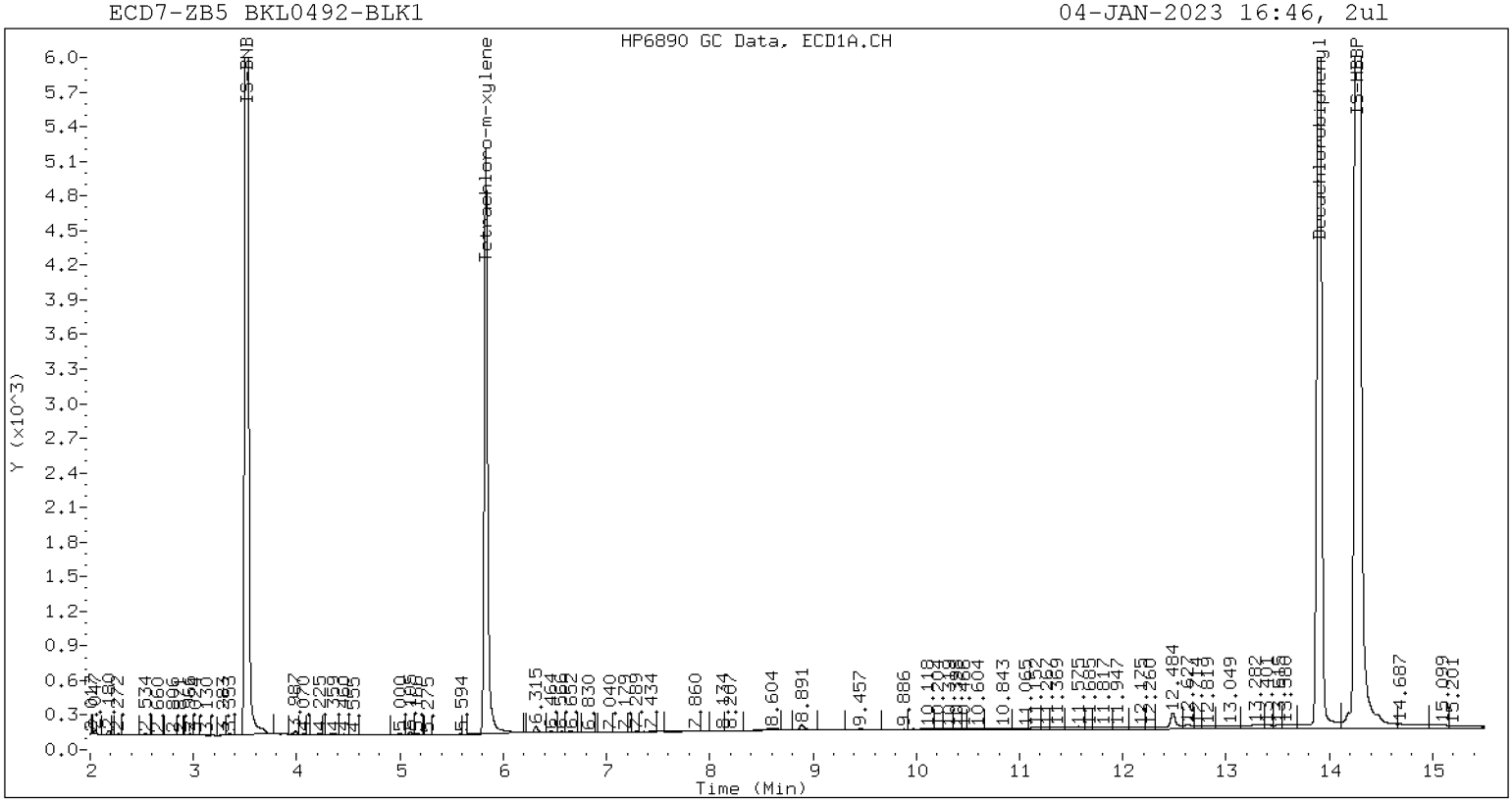
Total PCB Area Col2 (5.807 - 14.028) = 14929 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

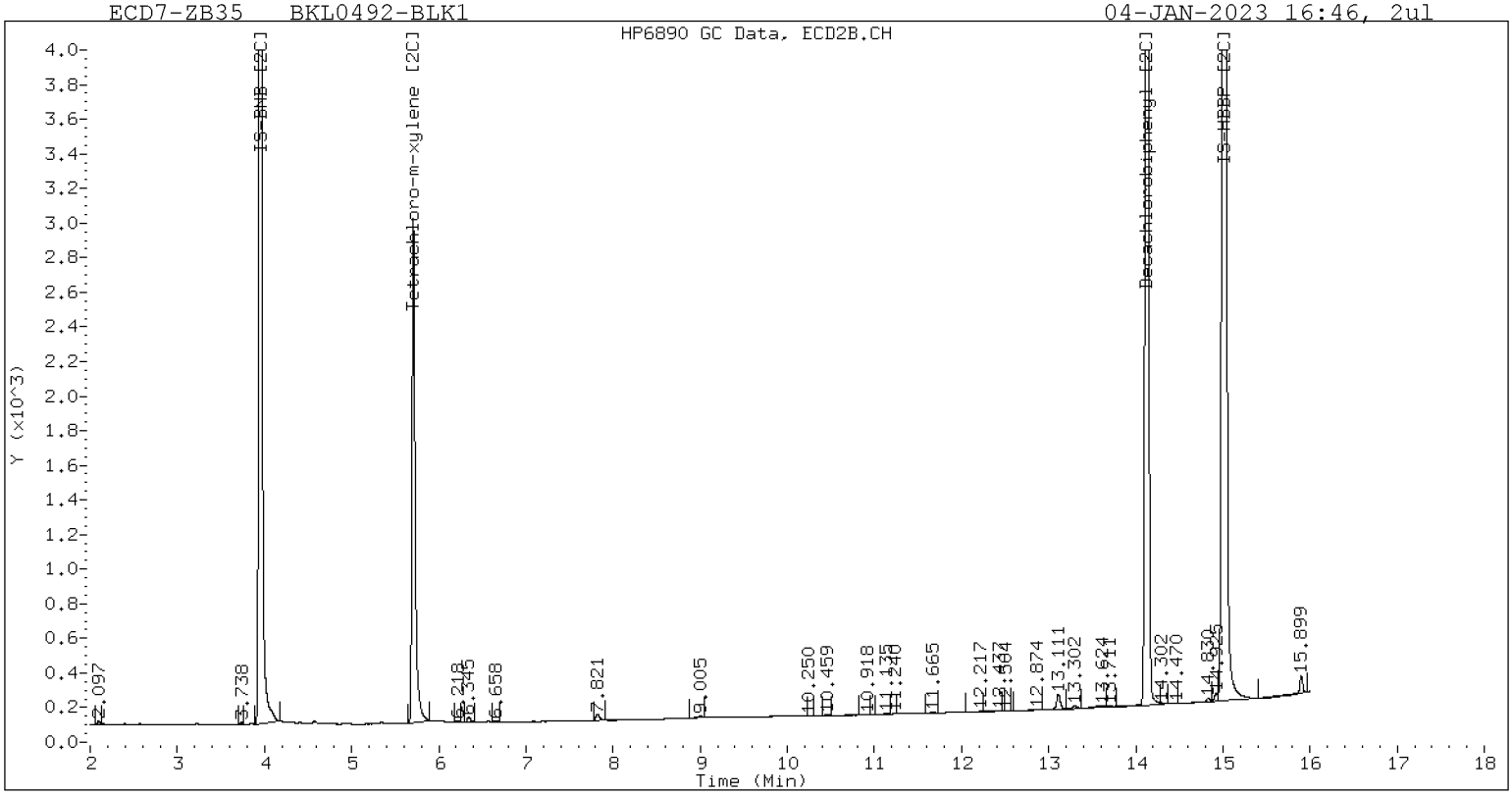
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-BLK1 04-JAN-2023 16:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0492-BLK1 04-JAN-2023 16:46, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I

METHOD BLANK DATA SHEET

EPA 8082A

Blank

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Solid	Laboratory ID:	BKL0571-BLK1	File ID:	01032332ECD7.D
Sampled:	N/A	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 19:10
Solids:		Preparation:	EPA 3546 (Microwave)	Initial/Final:	12.5 g / 2.5 mL
Batch:	BKL0571	Sequence:	SLA0079	Calibration:	FL00010
Instrument:	ECD7	Column:	ZB5	Cleanups:	Silica Gel, Sulfur, Sulfuric Acid

CAS NO.	COMPOUND	DILUTION	CONC: (ug/kg wet)	Q	DL	RL
12674-11-2	Aroclor 1016	1	4.0	U	1.6	4.0
11104-28-2	Aroclor 1221	1	4.0	U	1.6	4.0
11141-16-5	Aroclor 1232	1	4.0	U	1.6	4.0
53469-21-9	Aroclor 1242	1	4.0	U	1.6	4.0
12672-29-6	Aroclor 1248	1	4.0	U	1.6	4.0
11097-69-1	Aroclor 1254	1	4.0	U	1.6	4.0
11096-82-5	Aroclor 1260	1	4.0	U	0.6	4.0

SURROGATES	ADDED: (ug/kg wet)	FOUND: (ug/kg wet)	% REC	QC LIMITS	Q
Decachlorobiphenyl	8.0000	8.22	103	40 - 126	
Tetrachlorometaxylene	8.0000	6.17	77.1	44 - 120	
Decachlorobiphenyl [2C]	8.0000	7.75	96.9	40 - 126	
Tetrachlorometaxylene [2C]	8.0000	5.75	71.9	44 - 120	

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032332ECD7.D
Data file 2: /230103.b/230103.b/01032332ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-BLK1
Client ID:
Injection Date: 03-JAN-2023 19:10
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	220737	5.706	-0.002	136968	30.8	28.7	7.0	Tetrachloro-m-xylene
13.904	0.001	407541	14.128	-0.001	301874	41.1	38.8	5.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	505233	12.9
Hexabromobiphenyl	798898	1081106	35.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	347667	39.6
Hexabromobiphenyl	362541	548472	51.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.932 - 13.803) = 57062 Col1 Total PCB = 0.0 ppm*

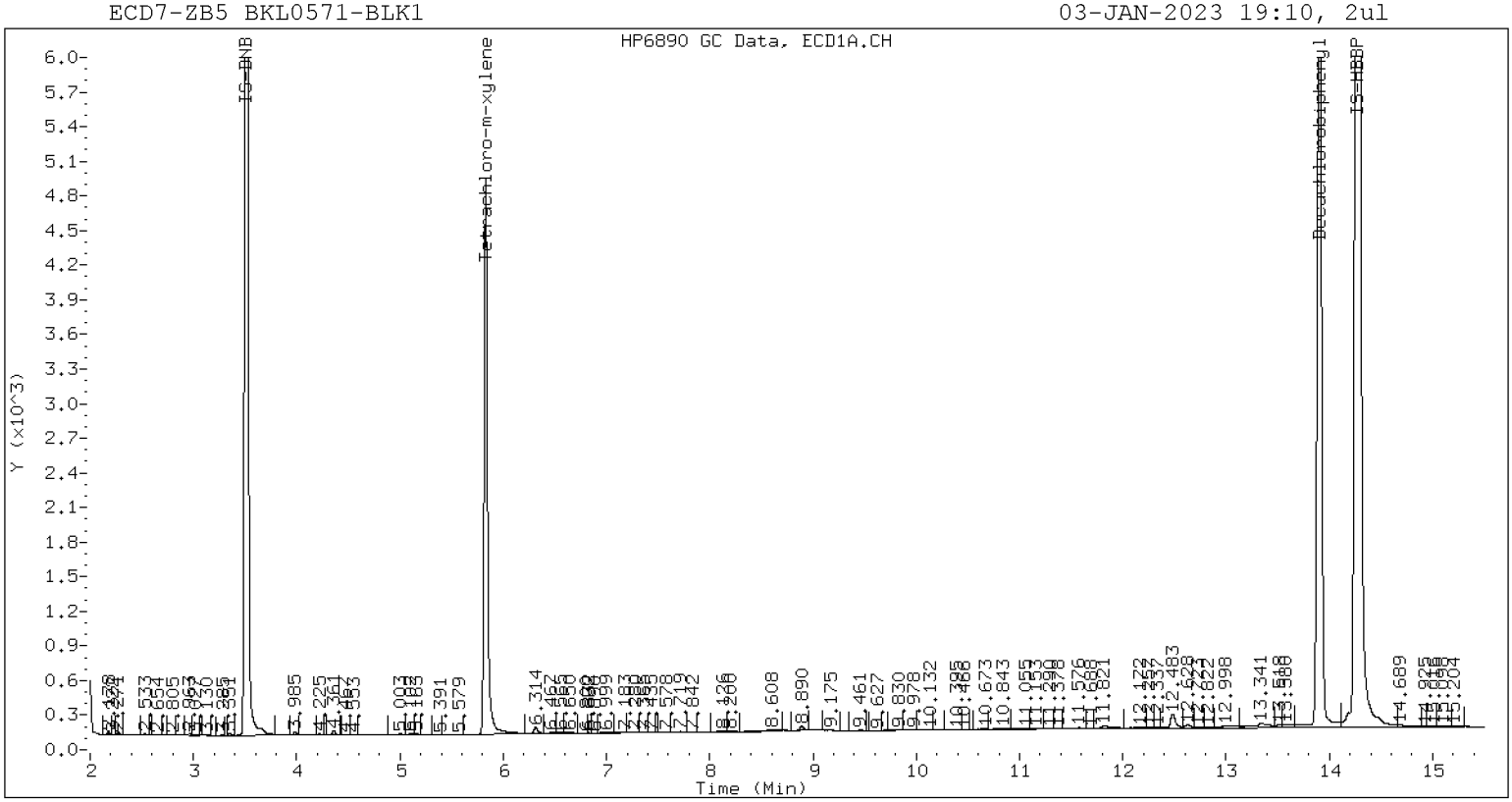
Total PCB Area Col2 (5.808 - 14.029) = 17355 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

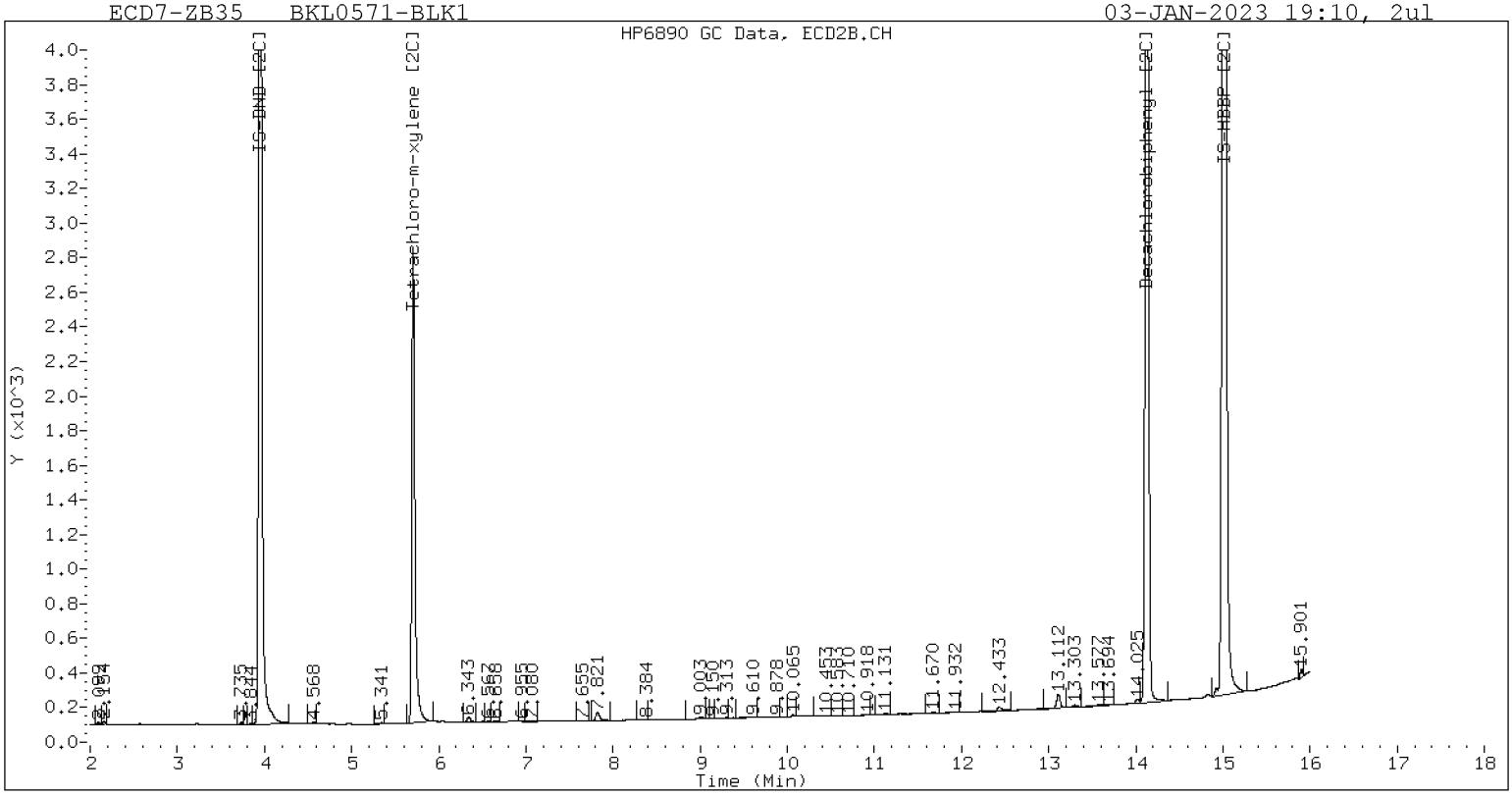
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-BLK1 03-JAN-2023 19:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-BLK1 03-JAN-2023 19:10, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 06:08
Batch:	BKL0490	Laboratory ID:	BKL0490-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	83.6		82.9	56 - 120
Aroclor 1260 [2C]	101	88.3		87.6	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	84.3		83.6	0.841	30	56 - 120
Aroclor 1260 [2C]	101	89.1		88.4	0.898	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042360ECD7.D
Data file 2: /230104.b/230104.b/01042360ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-BS1
Client ID:
Injection Date: 05-JAN-2023 06:08
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	271589	5.708	0.001	169300	35.7	33.6	5.9	Tetrachloro-m-xylene
13.903	0.002	482277	14.129	0.001	391257	42.7	44.5	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	537392	20.0
Hexabromobiphenyl	798898	1232792	54.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	367510	47.5
Hexabromobiphenyl	362541	619205	70.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.286	-0.003	74213	414.0	1	7.270	-0.000	71150	378.7
Aroclor-1016	2	7.668	-0.009	245210	423.7	2	7.865	-0.006	162007	399.8
Aroclor-1016	3	7.805	-0.008	102511	390.9	3	8.064	-0.005	66161	380.2
Aroclor-1016	4	8.418	-0.003	74009	442.6	4	8.234	-0.006	38854	424.6
Total Col1Ave (4 peaks):					417.8	Total Col2Ave (4 peaks):				395.8 RPD = 5
Corrected Ave (3 peaks):					409.5	Corrected Ave (3 peaks):				386.2 RPD = 6
Aroclor-1221	1	4.756	-0.004	701	15.8	1	4.977	-0.010	564	18.2
Aroclor-1221	2	6.151	-0.007	9829	125.6	2	6.317	-0.004	8215	139.0
Aroclor-1221	3	6.403	-0.006	48031	266.0	3	6.639	-0.006	31080	312.4
Total Col1Ave (3 peaks):					135.8	Total Col2Ave (3 peaks):				156.5 RPD = 14
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.006	701	26.2	1	4.977	-0.012	564	31.6
Aroclor-1232	2	6.151	-0.008	9829	174.0	2	7.270	-0.007	71150	779.6
Aroclor-1232	3	7.668	-0.016	245210	966.8	3	7.865	-0.012	162007	908.0
Aroclor-1232	4	8.592	-0.014	96409	896.0	4	8.724	-0.010	50199	1037.7
Total Col1Ave (4 peaks):					515.8	Total Col2Ave (4 peaks):				689.2 RPD = 29
Corrected Ave (3 peaks):					365.4	Corrected Ave (3 peaks):				573.1 RPD = 44*
Aroclor-1242	1	7.286	-0.002	74213	487.2	1	7.270	0.000	71150	457.4
Aroclor-1242	2	7.668	-0.007	245210	507.0	2	7.865	-0.004	162007	490.7
Aroclor-1242	3	8.418	-0.003	74009	531.9	3	9.165	-0.002	9061	85.1
Aroclor-1242	4	9.006	-0.014	103737	359.0	4	9.589	0.001	4855	37.9
Total Col1Ave (4 peaks):					471.3	Total Col2Ave (4 peaks):				267.8 RPD = 55*
Corrected Ave (3 peaks):					451.1	Corrected Ave (3 peaks):				193.5 RPD = 80*
Aroclor-1248	1	8.418	-0.009	74009	320.3	1	8.317	-0.003	49192	327.6
Aroclor-1248	2	8.592	-0.013	96409	326.8	2	8.724	-0.002	50199	317.9
Aroclor-1248	3	9.006	-0.016	103737	195.5	3	9.165	-0.005	9061	47.2
Aroclor-1248	4	9.311	-0.000	80856	311.0	4	9.589	-0.003	4855	21.5
Total Col1Ave (4 peaks):					288.4	Total Col2Ave (4 peaks):				178.6 RPD = 47*
Corrected Ave (3 peaks):					275.6	Corrected Ave (3 peaks):				128.9 RPD = 73*
Aroclor-1254	1	9.311	-0.010	80856	170.9	1	9.458	-0.002	43944	185.5
Aroclor-1254	2	---			0.0	2	9.977	-0.001	9575	50.3
Aroclor-1254	3	9.679	-0.016	14301	47.9	3	10.154	0.025	100857	246.3
Aroclor-1254	4	9.817	-0.014	46584	80.0	4	10.378	0.001	132472	312.4
Aroclor-1254	5	10.131	-0.059	220342	551.8	5	10.573	-0.001	178434	872.4
Total Col1Ave (4 peaks):					212.6	Total Col2Ave (5 peaks):				333.4 RPD = 44*
Corrected Ave (3 peaks):					99.6	Corrected Ave (4 peaks):				198.6 RPD = 66*
Aroclor-1260	1	11.054	-0.001	187124	417.0	1	11.661	0.000	142094	434.7
Aroclor-1260	2	11.371	-0.001	199387	429.6	2	11.924	0.000	350139	426.9
Aroclor-1260	3	11.744	-0.002	520357	426.7	3	12.443	0.001	98783	452.3
Aroclor-1260	4	12.147	-0.003	278359	448.2	4	12.508	0.002	247180	452.1
Aroclor-1260	5	12.254	-0.001	111484	438.5	NS	---			----
Total Col1Ave (5 peaks):					432.0	Total Col2Ave (4 peaks):				441.5 RPD = 2
Corrected Ave (4 peaks):					428.0	Corrected Ave (3 peaks):				437.9 RPD = 2
Aroclor-1262	1	10.835	-0.014	376046	912.2	1	11.207	-0.011	129269	274.6
Aroclor-1262	2	12.254	-0.009	111484	173.9	2	11.661	-0.009	142094	348.5
Aroclor-1262	3	12.328	-0.008	134162	196.0	3	12.443	-0.008	98783	219.6
Aroclor-1262	4	12.996	-0.009	124972	227.5	4	12.508	-0.011	247180	350.8
Total Col1Ave (4 peaks):					377.4	Total Col2Ave (4 peaks):				298.4 RPD = 23
Corrected Ave (3 peaks):					199.1	Corrected Ave (3 peaks):				280.9 RPD = 34
Aroclor-1268	1	12.254	-0.009	111484	64.6	1	12.443	-0.006	98783	84.5
Aroclor-1268	2	12.328	-0.007	134162	79.5	2	12.508	-0.009	247180	206.2
Aroclor-1268	3	12.733	0.017	58486	42.3	3	12.900	-0.010	4857	10.9
Aroclor-1268	4	13.498	-0.008	36731	8.7	4	13.716	-0.010	27597	8.6
Total Col1Ave (4 peaks):					48.8	Total Col2Ave (4 peaks):				77.6 RPD = 46*

Corrected Ave (3 peaks): 38.5 Corrected Ave (3 peaks): 34.7 RPD = 11

Total PCB Area Col1 (5.930 - 13.802) = 5070849 Col1 Total PCB = 1.0 ppm*

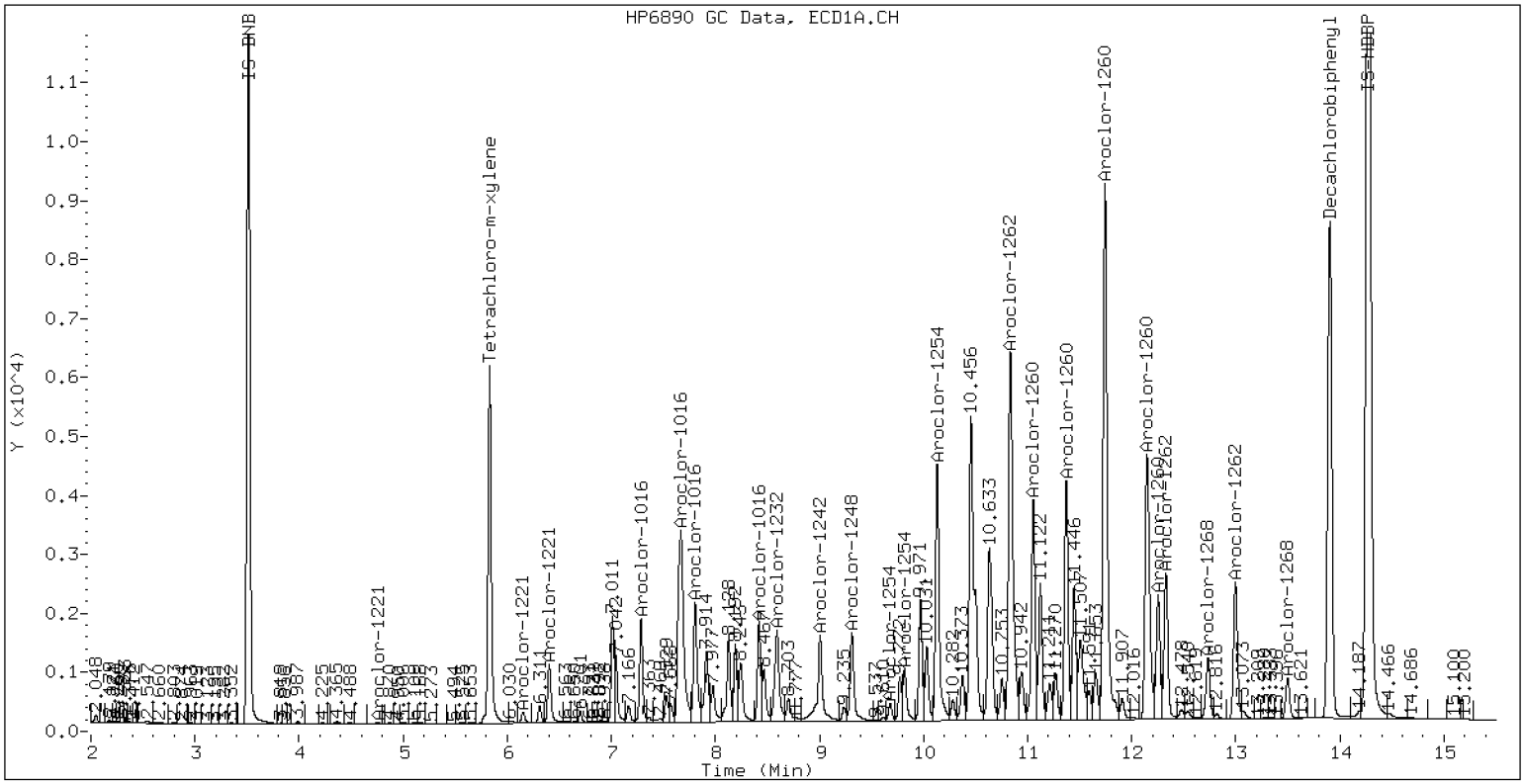
Total PCB Area Col2 (5.807 - 14.028) = 3241626 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

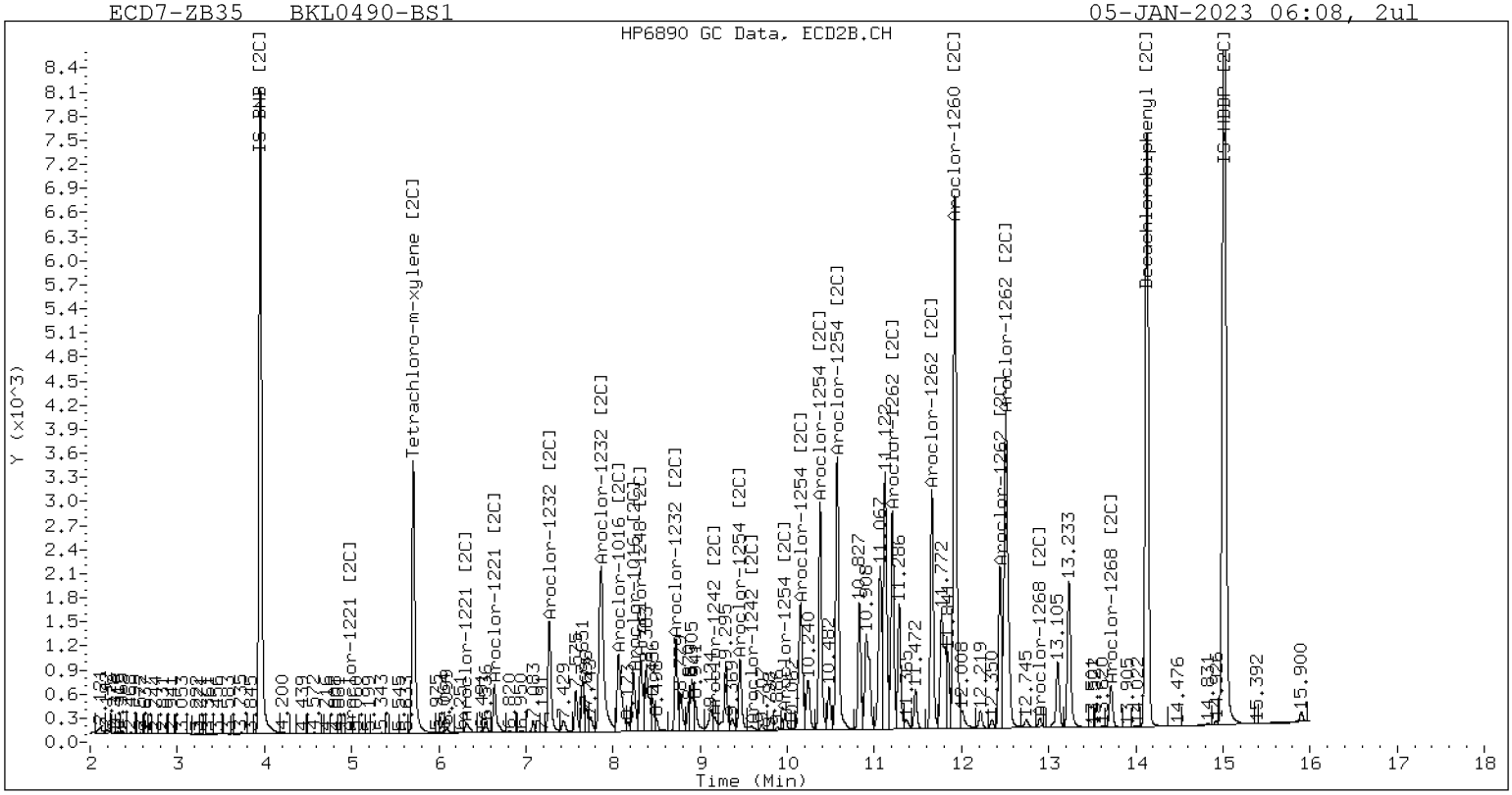
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-BS1 05-JAN-2023 06:08, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-BS1 05-JAN-2023 06:08, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042361ECD7.D
Data file 2: /230104.b/230104.b/01042361ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-BSD1
Client ID:
Injection Date: 05-JAN-2023 06:29
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.001	269592	5.706	-0.001	165681	34.9	32.7	6.5	Tetrachloro-m-xylene
13.902	0.001	493667	14.127	-0.001	396984	42.5	43.8	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	544723	21.7
Hexabromobiphenyl	798898	1268245	58.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	369191	48.2
Hexabromobiphenyl	362541	638102	76.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.285	-0.003	74231	408.5	1	7.268	-0.002	72383	383.5
Aroclor-1016	2	7.667	-0.010	250516	427.0	2	7.863	-0.008	165164	405.7
Aroclor-1016	3	7.804	-0.008	104791	394.2	3	8.062	-0.007	67855	388.1
Aroclor-1016	4	8.417	-0.004	77210	455.6	4	8.233	-0.007	40077	435.9
Total Col1Ave (4 peaks):					421.3	Total Col2Ave (4 peaks):				403.3 RPD = 4
Corrected Ave (3 peaks):					409.9	Corrected Ave (3 peaks):				392.4 RPD = 4
Aroclor-1221	1	4.755	-0.005	633	14.1	1	4.986	-0.002	240	7.7
Aroclor-1221	2	6.150	-0.008	9736	122.7	2	6.315	-0.006	7270	122.4
Aroclor-1221	3	6.401	-0.008	48414	264.5	3	6.637	-0.008	31319	313.4
Total Col1Ave (3 peaks):					133.8	Total Col2Ave (3 peaks):				147.8 RPD = 10
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.755	-0.006	633	23.4	1	4.986	-0.004	240	13.4
Aroclor-1232	2	6.150	-0.009	9736	170.1	2	7.268	-0.009	72383	789.5
Aroclor-1232	3	7.667	-0.017	250516	974.5	3	7.863	-0.013	165164	921.5
Aroclor-1232	4	8.591	-0.014	101742	932.8	4	8.723	-0.011	52274	1075.7
Total Col1Ave (4 peaks):					525.2	Total Col2Ave (4 peaks):				700.0 RPD = 29
Corrected Ave (3 peaks):					375.4	Corrected Ave (3 peaks):				574.8 RPD = 42*
Aroclor-1242	1	7.285	-0.003	74231	480.8	1	7.268	-0.002	72383	463.2
Aroclor-1242	2	7.667	-0.008	250516	511.0	2	7.863	-0.005	165164	497.9
Aroclor-1242	3	8.417	-0.004	77210	547.4	3	9.164	-0.003	9981	93.3
Aroclor-1242	4	9.005	-0.016	112861	385.4	4	9.589	0.001	6012	46.7
Total Col1Ave (4 peaks):					481.1	Total Col2Ave (4 peaks):				275.3 RPD = 54*
Corrected Ave (3 peaks):					459.0	Corrected Ave (3 peaks):				201.1 RPD = 78*
Aroclor-1248	1	8.417	-0.010	77210	329.7	1	8.316	-0.004	50699	336.1
Aroclor-1248	2	8.591	-0.013	101742	340.2	2	8.723	-0.002	52274	329.5
Aroclor-1248	3	9.005	-0.018	112861	209.8	3	9.164	-0.006	9981	51.7
Aroclor-1248	4	9.310	-0.001	87823	333.2	4	9.589	-0.004	6012	26.5
Total Col1Ave (4 peaks):					303.2	Total Col2Ave (4 peaks):				186.0 RPD = 48*
Corrected Ave (3 peaks):					290.9	Corrected Ave (3 peaks):				135.9 RPD = 73*
Aroclor-1254	1	9.310	-0.011	87823	183.1	1	9.456	-0.003	46117	193.7
Aroclor-1254	2	---			0.0	2	9.976	-0.002	10252	53.6
Aroclor-1254	3	9.678	-0.016	16086	53.1	3	10.153	0.024	106440	258.8
Aroclor-1254	4	9.815	-0.016	51638	87.5	4	10.377	-0.000	139190	326.7
Aroclor-1254	5	10.129	-0.060	234366	579.0	5	10.572	-0.003	186389	907.1
Total Col1Ave (4 peaks):					225.7	Total Col2Ave (5 peaks):				348.0 RPD = 43*
Corrected Ave (3 peaks):					107.9	Corrected Ave (4 peaks):				208.2 RPD = 63*
Aroclor-1260	1	11.054	-0.002	197299	427.4	1	11.659	-0.001	148355	440.5
Aroclor-1260	2	11.371	-0.001	210243	440.3	2	11.923	-0.001	363518	430.1
Aroclor-1260	3	11.744	-0.002	545977	435.2	3	12.442	-0.000	103227	458.6
Aroclor-1260	4	12.147	-0.003	289993	453.9	4	12.507	0.001	255110	452.8
Aroclor-1260	5	12.254	-0.001	116579	445.8	NS	---			----
Total Col1Ave (5 peaks):					440.5	Total Col2Ave (4 peaks):				445.5 RPD = 1
Corrected Ave (4 peaks):					437.2	Corrected Ave (3 peaks):				441.1 RPD = 1
Aroclor-1262	1	10.834	-0.014	393942	928.9	1	11.207	-0.011	134513	277.2
Aroclor-1262	2	12.254	-0.009	116579	176.8	2	11.659	-0.011	148355	353.0
Aroclor-1262	3	12.328	-0.008	141627	201.1	3	12.442	-0.009	103227	222.7
Aroclor-1262	4	12.996	-0.009	131151	232.1	4	12.507	-0.012	255110	351.4
Total Col1Ave (4 peaks):					384.7	Total Col2Ave (4 peaks):				301.1 RPD = 24
Corrected Ave (3 peaks):					203.3	Corrected Ave (3 peaks):				283.8 RPD = 33
Aroclor-1268	1	12.254	-0.008	116579	65.7	1	12.442	-0.007	103227	85.7
Aroclor-1268	2	12.328	-0.007	141627	81.6	2	12.507	-0.010	255110	206.6
Aroclor-1268	3	12.733	0.017	63063	44.3	3	12.899	-0.011	4989	10.9
Aroclor-1268	4	13.499	-0.006	43314	10.0	4	13.715	-0.011	28723	8.7
Total Col1Ave (4 peaks):					50.4	Total Col2Ave (4 peaks):				78.0 RPD = 43*

Corrected Ave (3 peaks): 40.0 Corrected Ave (3 peaks): 35.1 RPD = 13

Total PCB Area Col1 (5.930 - 13.802) = 5336909 Col1 Total PCB = 1.0 ppm*

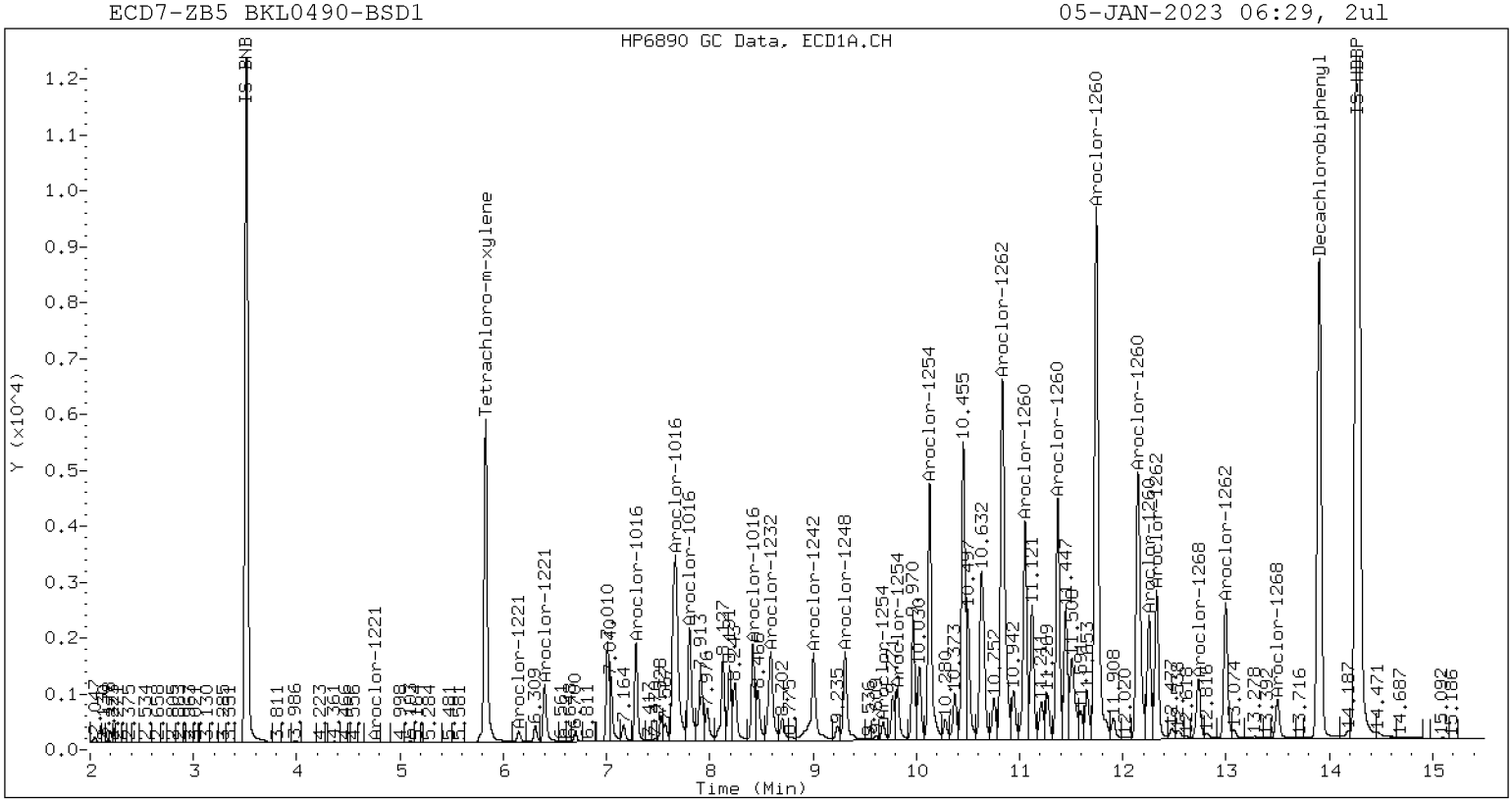
Total PCB Area Col2 (5.807 - 14.028) = 3369260 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

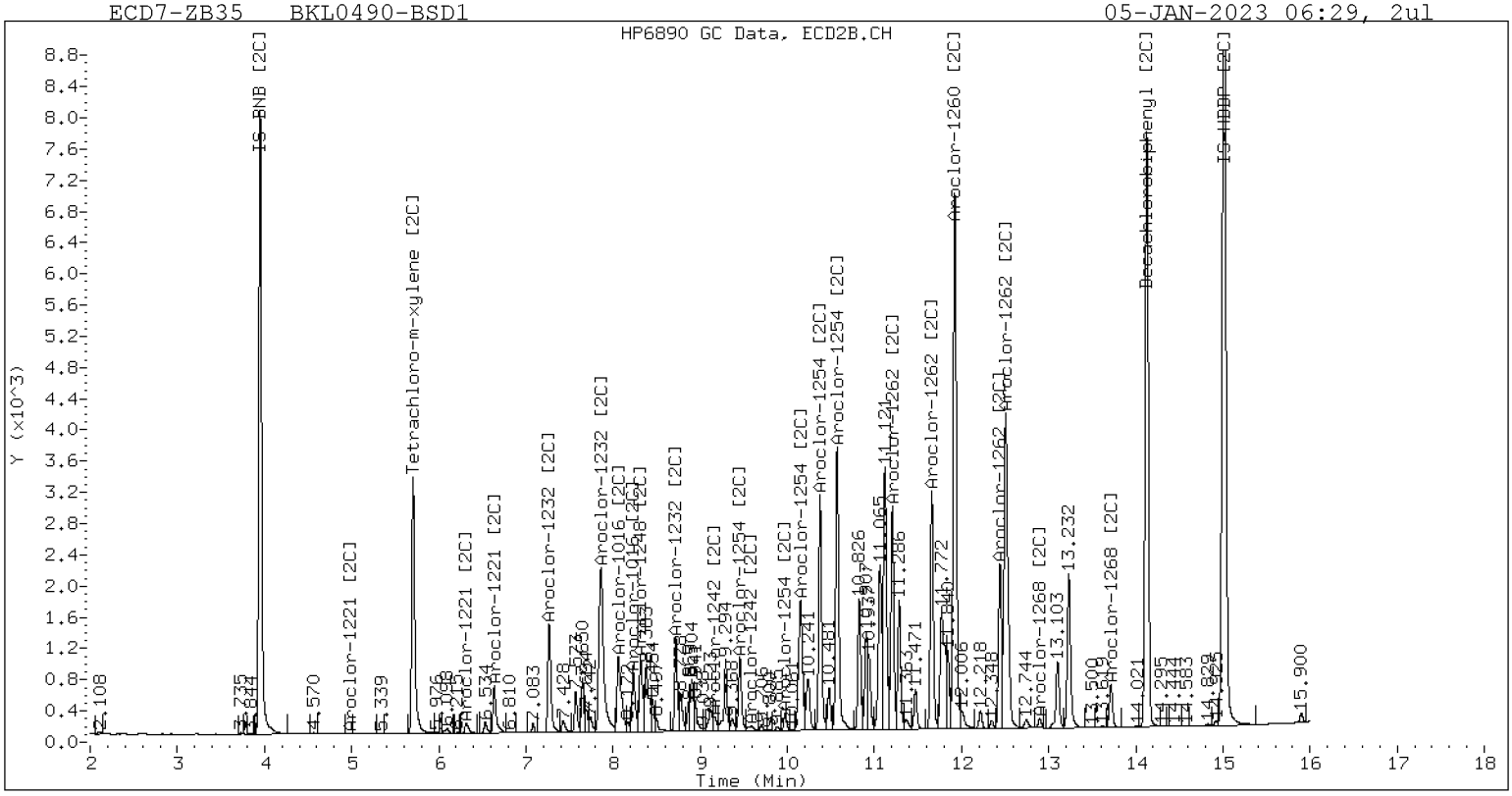
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-BSD1 05-JAN-2023 06:29, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-BSD1 05-JAN-2023 06:29, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/04/23 17:07
Batch:	BKL0492	Laboratory ID:	BKL0492-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	87.1		86.4	56 - 120
Aroclor 1260 [2C]	101	90.2		89.5	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	86.3		85.6	0.891	30	56 - 120
Aroclor 1260	101	89.0		88.2	0.0296	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042323ECD7.D
Data file 2: /230104.b/230104.b/01042323ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-BS1
Client ID:
Injection Date: 04-JAN-2023 17:07
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.000	248797	5.707	0.000	152665	32.7	30.6	6.6	Tetrachloro-m-xylene
13.903	0.001	436744	14.128	0.001	345794	37.9	39.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	537175	20.0
Hexabromobiphenyl	798898	1256466	57.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	364142	46.2
Hexabromobiphenyl	362541	624239	72.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.287	-0.002	76523	427.1	1	7.269	-0.000	73842	396.6
Aroclor-1016	2	7.670	-0.007	256247	442.9	2	7.865	-0.006	168820	420.4
Aroclor-1016	3	7.806	-0.006	107329	409.4	3	8.064	-0.005	68517	397.3
Aroclor-1016	4	8.419	-0.003	77290	462.5	4	8.235	-0.005	40228	443.6
	Total Col1Ave (4 peaks):			435.5		Total Col2Ave (4 peaks):			414.5	RPD = 5
	Corrected Ave (3 peaks):			426.5		Corrected Ave (3 peaks):			404.8	RPD = 5
Aroclor-1221	1	4.756	-0.004	451	10.2	1	4.976	-0.011	519	16.9
Aroclor-1221	2	6.152	-0.007	10045	128.4	2	6.316	-0.005	7662	130.8
Aroclor-1221	3	6.403	-0.006	49976	276.9	3	6.639	-0.006	33053	335.3
	Total Col1Ave (3 peaks):			138.5		Total Col2Ave (3 peaks):			161.0	RPD = 15
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	451	16.9	1	4.976	-0.013	519	29.3
Aroclor-1232	2	6.152	-0.008	10045	177.9	2	7.269	-0.008	73842	816.6
Aroclor-1232	3	7.670	-0.014	256247	1010.8	3	7.865	-0.011	168820	954.9
Aroclor-1232	4	8.592	-0.014	100695	936.2	4	8.724	-0.010	52369	1092.6
	Total Col1Ave (4 peaks):			535.4		Total Col2Ave (4 peaks):			723.3	RPD = 30
	Corrected Ave (3 peaks):			377.0		Corrected Ave (3 peaks):			600.3	RPD = 46*
Aroclor-1242	1	7.287	-0.001	76523	502.6	1	7.269	-0.000	73842	479.1
Aroclor-1242	2	7.670	-0.005	256247	530.1	2	7.865	-0.003	168820	516.0
Aroclor-1242	3	8.419	-0.003	77290	555.7	3	9.165	-0.002	9499	90.0
Aroclor-1242	4	9.006	-0.014	103496	358.3	4	9.592	0.004	4063	32.0
	Total Col1Ave (4 peaks):			486.7		Total Col2Ave (4 peaks):			279.3	RPD = 54*
	Corrected Ave (3 peaks):			463.7		Corrected Ave (3 peaks):			200.4	RPD = 79*
Aroclor-1248	1	8.419	-0.009	77290	334.6	1	8.318	-0.002	51250	344.5
Aroclor-1248	2	8.592	-0.012	100695	341.5	2	8.724	-0.001	52369	334.7
Aroclor-1248	3	9.006	-0.016	103496	195.1	3	9.165	-0.006	9499	49.9
Aroclor-1248	4	9.311	0.000	84775	326.2	4	9.592	-0.000	4063	18.2
	Total Col1Ave (4 peaks):			299.3		Total Col2Ave (4 peaks):			186.8	RPD = 46*
	Corrected Ave (3 peaks):			285.3		Corrected Ave (3 peaks):			134.3	RPD = 72*
Aroclor-1254	1	9.311	-0.010	84775	179.2	1	9.458	-0.002	46101	196.4
Aroclor-1254	2	---			0.0	2	9.978	-0.000	10260	54.4
Aroclor-1254	3	9.679	-0.015	16181	54.2	3	10.154	0.026	106414	262.3
Aroclor-1254	4	9.816	-0.014	48606	83.5	4	10.379	0.001	137889	328.2
Aroclor-1254	5	10.130	-0.059	230219	576.8	5	10.573	-0.001	185826	916.9
	Total Col1Ave (4 peaks):			223.4		Total Col2Ave (5 peaks):			351.6	RPD = 45*
	Corrected Ave (3 peaks):			105.6		Corrected Ave (4 peaks):			210.3	RPD = 66*
Aroclor-1260	1	11.055	-0.001	196495	429.6	1	11.660	-0.000	146439	444.4
Aroclor-1260	2	11.371	-0.001	208975	441.8	2	11.924	0.001	359982	435.4
Aroclor-1260	3	11.745	-0.001	545288	438.7	3	12.443	0.000	101709	461.9
Aroclor-1260	4	12.148	-0.002	291100	459.9	4	12.508	0.001	254716	462.1
Aroclor-1260	5	12.254	-0.001	117396	453.1	NS	---			----
	Total Col1Ave (5 peaks):			444.6		Total Col2Ave (4 peaks):			451.0	RPD = 1
	Corrected Ave (4 peaks):			440.8		Corrected Ave (3 peaks):			447.2	RPD = 1
Aroclor-1262	1	10.835	-0.013	390229	928.7	1	11.207	-0.010	134589	283.6
Aroclor-1262	2	12.254	-0.009	117396	179.7	2	11.660	-0.010	146439	356.2
Aroclor-1262	3	12.328	-0.008	141947	203.5	3	12.443	-0.009	101709	224.3
Aroclor-1262	4	12.997	-0.008	135026	241.2	4	12.508	-0.012	254716	358.6
	Total Col1Ave (4 peaks):			388.3		Total Col2Ave (4 peaks):			305.7	RPD = 24
	Corrected Ave (3 peaks):			208.1		Corrected Ave (3 peaks):			288.0	RPD = 32
Aroclor-1268	1	12.254	-0.008	117396	66.8	1	12.443	-0.007	101709	86.3
Aroclor-1268	2	12.328	-0.007	141947	82.5	2	12.508	-0.010	254716	210.8
Aroclor-1268	3	12.734	0.018	62537	44.4	3	12.901	-0.009	4904	10.9
Aroclor-1268	4	13.497	-0.008	38439	8.9	4	13.716	-0.010	28383	8.8
	Total Col1Ave (4 peaks):			50.7		Total Col2Ave (4 peaks):			79.2	RPD = 44*

Corrected Ave (3 peaks): 40.0 Corrected Ave (3 peaks): 35.4 RPD = 12

Total PCB Area Col1 (5.930 - 13.802) = 5307643 Col1 Total PCB = 1.0 ppm*

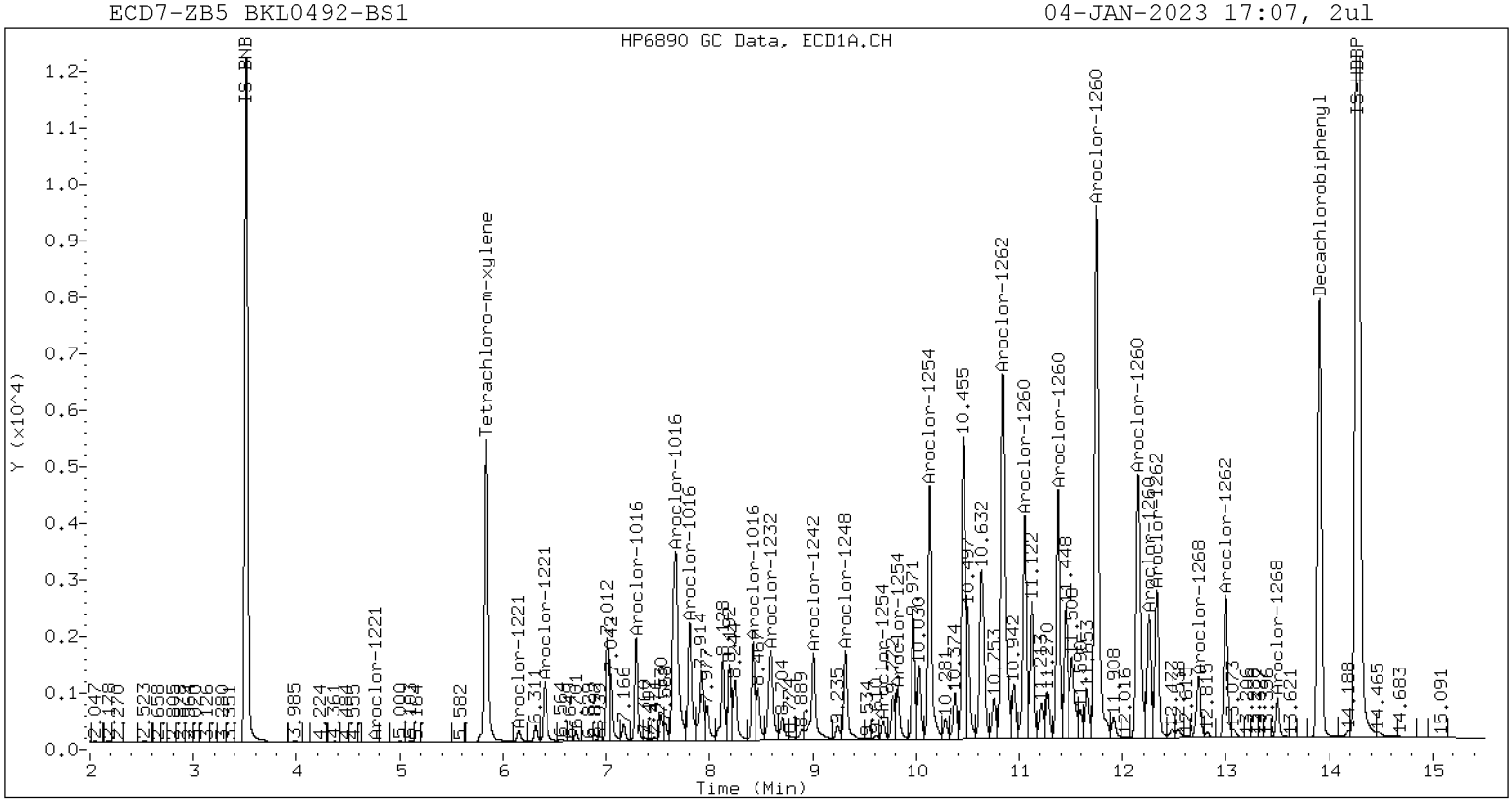
Total PCB Area Col2 (5.807 - 14.028) = 3357159 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

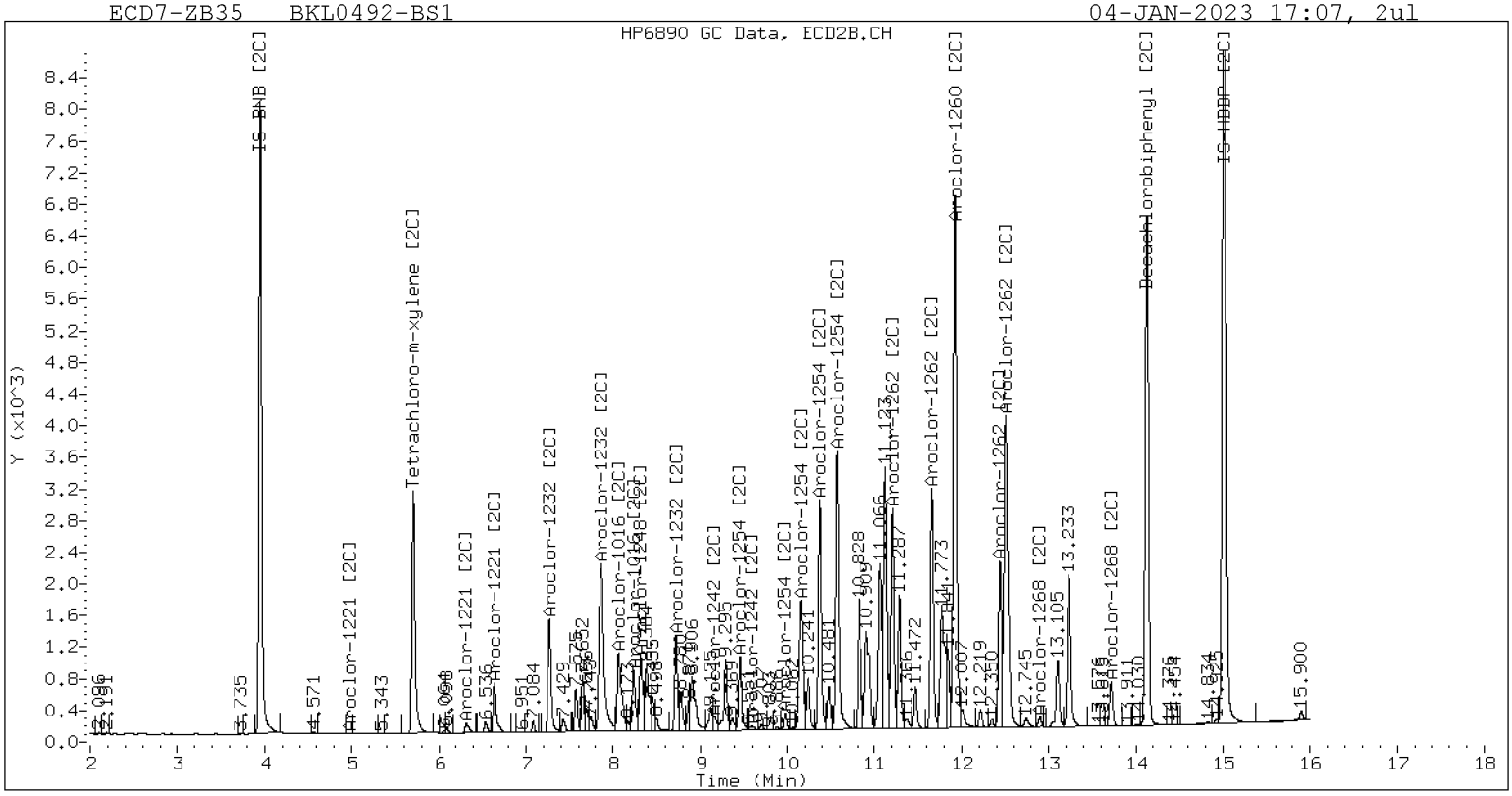
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-BS1 04-JAN-2023 17:07, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0492-BS1 04-JAN-2023 17:07, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042324ECD7.D
Data file 2: /230104.b/230104.b/01042324ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-BSD1
Client ID:
Injection Date: 04-JAN-2023 17:28
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	244235	5.709	0.002	146897	32.6	29.9	8.8	Tetrachloro-m-xylene
13.903	0.002	428200	14.128	0.000	336905	38.1	38.2	0.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	528600	18.1
Hexabromobiphenyl	798898	1224490	53.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	358860	44.1
Hexabromobiphenyl	362541	621651	71.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.002	74971	425.2	1	7.270	0.000	73361	399.8
Aroclor-1016	2	7.669	-0.008	249705	438.6	2	7.865	-0.006	164996	417.0
Aroclor-1016	3	7.806	-0.006	104238	404.1	3	8.064	-0.005	66717	392.6
Aroclor-1016	4	8.419	-0.003	75409	458.5	4	8.234	-0.006	39239	439.1
Total Col1Ave (4 peaks):					431.6	Total Col2Ave (4 peaks):				412.1 RPD = 5
Corrected Ave (3 peaks):					422.6	Corrected Ave (3 peaks):				403.1 RPD = 5
Aroclor-1221	1	4.758	-0.002	428	9.8	1	---			0.0
Aroclor-1221	2	6.152	-0.007	9862	128.1	2	6.317	-0.004	7205	124.8
Aroclor-1221	3	6.403	-0.006	49420	278.3	3	6.639	-0.006	32693	336.6
Total Col1Ave (3 peaks):					138.7	Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	4.758	-0.003	428	16.3	1	---			0.0
Aroclor-1232	2	6.152	-0.007	9862	177.5	2	7.270	-0.007	73361	823.2
Aroclor-1232	3	7.669	-0.015	249705	1000.9	3	7.865	-0.011	164996	947.1
Aroclor-1232	4	8.592	-0.013	98529	930.9	4	8.724	-0.010	50375	1066.4
Total Col1Ave (4 peaks):					531.4	Total Col2Ave (3 peaks):				945.6 RPD = 56*
Corrected Ave (3 peaks):					374.9	Corrected Ave: < 3 Peaks				
Aroclor-1242	1	7.287	-0.001	74971	500.4	1	7.270	0.001	73361	483.0
Aroclor-1242	2	7.669	-0.006	249705	524.9	2	7.865	-0.003	164996	511.7
Aroclor-1242	3	8.419	-0.002	75409	550.9	3	9.166	-0.002	9181	88.3
Aroclor-1242	4	9.007	-0.013	101843	358.3	4	9.589	0.001	4906	39.2
Total Col1Ave (4 peaks):					483.6	Total Col2Ave (4 peaks):				280.6 RPD = 53*
Corrected Ave (3 peaks):					461.2	Corrected Ave (3 peaks):				203.5 RPD = 78*
Aroclor-1248	1	8.419	-0.009	75409	331.8	1	8.317	-0.003	49316	336.4
Aroclor-1248	2	8.592	-0.012	98529	339.5	2	8.724	-0.001	50375	326.7
Aroclor-1248	3	9.007	-0.015	101843	195.1	3	9.166	-0.005	9181	49.0
Aroclor-1248	4	9.311	-0.000	81296	317.9	4	9.589	-0.003	4906	22.3
Total Col1Ave (4 peaks):					296.1	Total Col2Ave (4 peaks):				183.6 RPD = 47*
Corrected Ave (3 peaks):					281.6	Corrected Ave (3 peaks):				132.6 RPD = 72*
Aroclor-1254	1	9.311	-0.010	81296	174.7	1	9.458	-0.002	44296	191.4
Aroclor-1254	2	9.451	0.049	2617	14.5	2	9.978	0.000	9981	53.7
Aroclor-1254	3	9.679	-0.015	16342	55.6	3	10.154	0.025	102201	255.6
Aroclor-1254	4	9.817	-0.014	47901	83.6	4	10.379	0.001	133405	322.2
Aroclor-1254	5	10.131	-0.058	222408	566.2	5	10.574	-0.001	180197	902.2
Total Col1Ave (5 peaks):					178.9	Total Col2Ave (5 peaks):				345.0 RPD = 63*
Corrected Ave (4 peaks):					82.1	Corrected Ave (4 peaks):				205.7 RPD = 86*
Aroclor-1260	1	11.053	-0.003	190626	427.7	1	11.661	0.001	142739	435.0
Aroclor-1260	2	11.371	-0.001	203337	441.1	2	11.925	0.001	352581	428.2
Aroclor-1260	3	11.744	-0.002	532035	439.2	3	12.443	0.001	99538	454.0
Aroclor-1260	4	12.146	-0.004	284177	460.7	4	12.508	0.002	249863	455.2
Aroclor-1260	5	12.253	-0.002	114913	455.1	NS	---			----
Total Col1Ave (5 peaks):					444.8	Total Col2Ave (4 peaks):				443.1 RPD = 0
Corrected Ave (4 peaks):					440.8	Corrected Ave (3 peaks):				439.0 RPD = 0
Aroclor-1262	1	10.835	-0.013	378056	923.3	1	11.207	-0.010	130058	275.2
Aroclor-1262	2	12.253	-0.010	114913	180.5	2	11.661	-0.009	142739	348.7
Aroclor-1262	3	12.328	-0.008	139844	205.7	3	12.443	-0.009	99538	220.4
Aroclor-1262	4	12.997	-0.008	132411	242.7	4	12.508	-0.011	249863	353.2
Total Col1Ave (4 peaks):					388.0	Total Col2Ave (4 peaks):				299.4 RPD = 26
Corrected Ave (3 peaks):					209.6	Corrected Ave (3 peaks):				281.4 RPD = 29
Aroclor-1268	1	12.253	-0.009	114913	67.1	1	12.443	-0.007	99538	84.8
Aroclor-1268	2	12.328	-0.007	139844	83.4	2	12.508	-0.009	249863	207.7
Aroclor-1268	3	12.733	0.016	62937	45.8	3	12.901	-0.009	4683	10.5
Aroclor-1268	4	13.499	-0.007	44735	10.7	4	13.716	-0.011	27972	8.7
Total Col1Ave (4 peaks):					51.8	Total Col2Ave (4 peaks):				77.9 RPD = 40*
Corrected Ave (3 peaks):					41.2	Corrected Ave (3 peaks):				34.7 RPD = 17

Total PCB Area Col1 (5.930 - 13.802) = 5197016 Col1 Total PCB = 1.0 ppm*

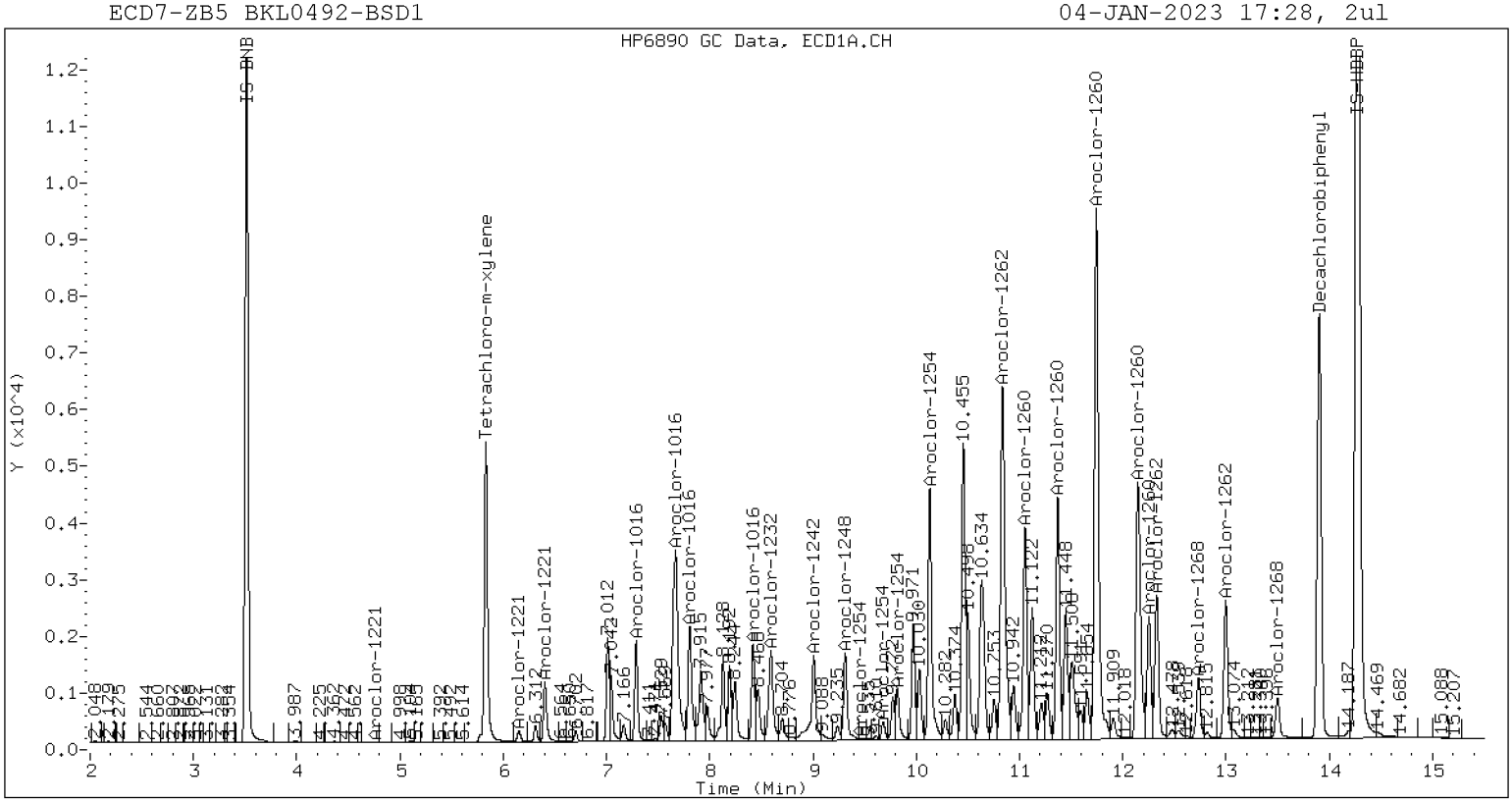
Total PCB Area Col2 (5.807 - 14.028) = 3264432 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

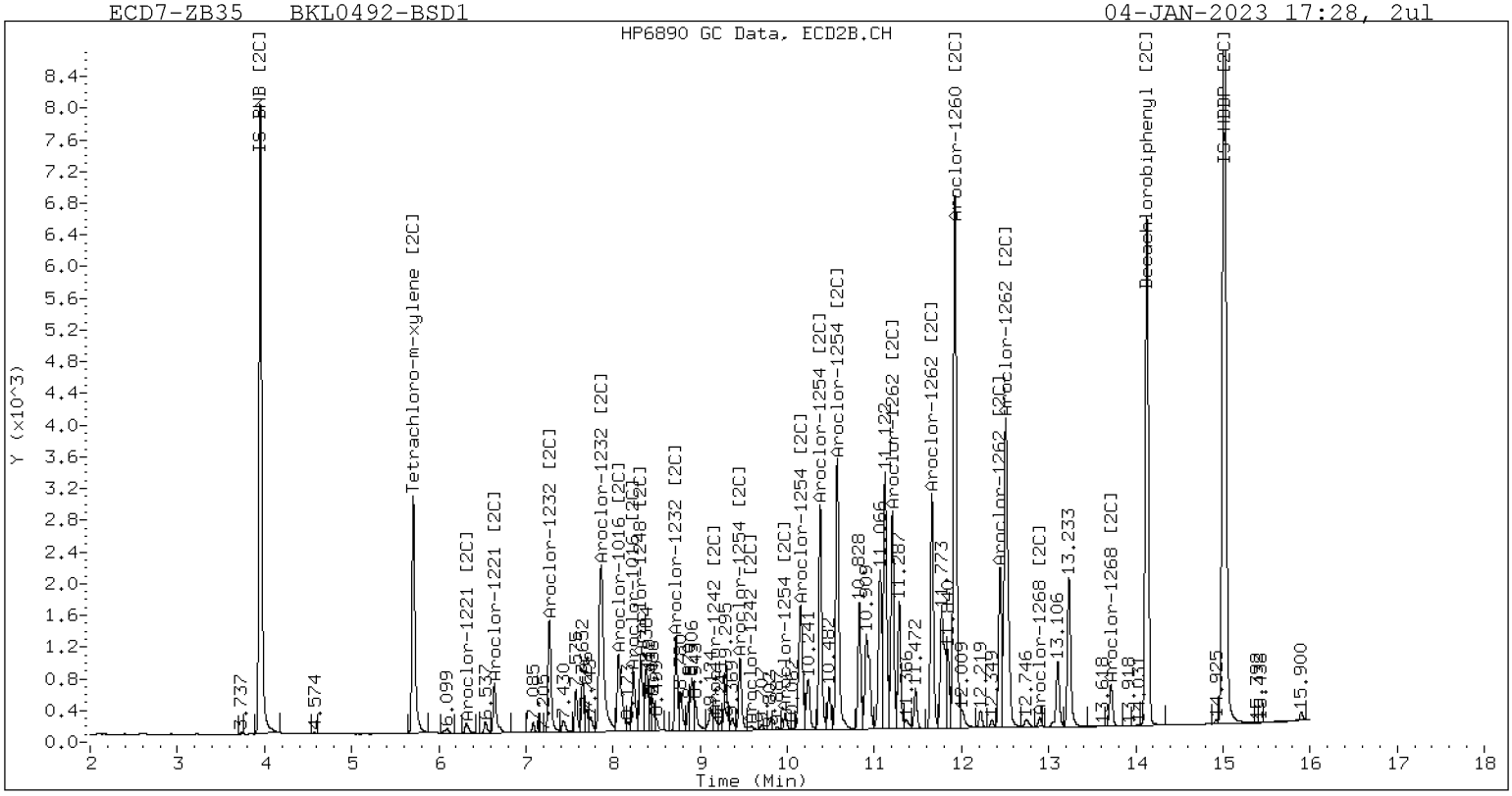
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-BSD1 04-JAN-2023 17:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0492-BSD1 04-JAN-2023 17:28, 2ul



ZB-35 Manual Integration: NO

LCS / LCS DUPLICATE RECOVERY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/03/23 19:31
Batch:	BKL0571	Laboratory ID:	BKL0571-BS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	LCS
Initial/Final:	12.5 g / 2.5 mL		

COMPOUND	SPIKE ADDED (ug/kg wet)	LCS CONCENTRATION (ug/kg wet)	Q	LCS % REC. #	QC LIMITS REC.
Aroclor 1016	101	84.4		83.7	56 - 120
Aroclor 1260 [2C]	101	90.1		89.4	58 - 120

* Indicates values outside of QC limits

COMPOUND	SPIKE ADDED (ug/kg wet)	LCSD CONCENTRATION (ug/kg wet)	Q	LCSD % REC. #	% RPD #	QC LIMITS	
						RPD	REC.
Aroclor 1016	101	90.8		90.1	7.31	30	56 - 120
Aroclor 1260 [2C]	101	97.0		96.2	7.38	30	58 - 120

* Indicates values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032333ECD7.D
Data file 2: /230103.b/230103.b/01032333ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-BS1
Client ID:
Injection Date: 03-JAN-2023 19:31
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	246545	5.706	-0.001	150925	34.5	31.7	8.4	Tetrachloro-m-xylene
13.903	-0.000	432387	14.127	-0.002	343768	40.8	42.4	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	504265	12.6
Hexabromobiphenyl	798898	1155108	44.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	346956	39.3
Hexabromobiphenyl	362541	570479	57.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.008	70396	418.5	1	7.269	-0.002	67818	382.3
Aroclor-1016	2	7.668	-0.016	232724	428.5	2	7.864	-0.007	154291	403.3
Aroclor-1016	3	7.805	-0.013	96375	391.6	3	8.065	-0.006	62066	377.8
Aroclor-1016	4	8.418	-0.011	70504	449.4	4	8.234	-0.007	36701	424.8
Total Col1Ave (4 peaks):					422.0	Total Col2Ave (4 peaks):				397.0 RPD = 6
Corrected Ave (3 peaks):					412.9	Corrected Ave (3 peaks):				387.8 RPD = 6
Aroclor-1221	1	4.756	-0.004	500	12.0	1	4.969	-0.019	2356	80.5
Aroclor-1221	2	6.151	-0.008	9347	127.3	2	6.316	-0.006	6882	123.3
Aroclor-1221	3	6.402	-0.007	45450	268.3	3	6.639	-0.007	30184	321.4
Total Col1Ave (3 peaks):					135.9	Total Col2Ave (3 peaks):				175.1 RPD = 25
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	500	19.9	1	4.969	-0.021	2356	139.6
Aroclor-1232	2	6.151	-0.008	9347	176.4	2	7.269	-0.008	67818	787.1
Aroclor-1232	3	7.668	-0.015	232724	977.9	3	7.864	-0.012	154291	916.0
Aroclor-1232	4	8.592	-0.013	91659	907.8	4	8.724	-0.010	47256	1034.7
Total Col1Ave (4 peaks):					520.5	Total Col2Ave (4 peaks):				719.4 RPD = 32
Corrected Ave (3 peaks):					368.0	Corrected Ave (3 peaks):				614.2 RPD = 50*
Aroclor-1242	1	7.286	-0.003	70396	492.5	1	7.269	-0.002	67818	461.8
Aroclor-1242	2	7.668	-0.008	232724	512.8	2	7.864	-0.007	154291	495.0
Aroclor-1242	3	8.418	-0.004	70504	540.0	3	9.165	-0.004	8414	83.7
Aroclor-1242	4	9.006	-0.015	97791	360.7	4	9.589	0.001	4306	35.6
Total Col1Ave (4 peaks):					476.5	Total Col2Ave (4 peaks):				269.0 RPD = 56*
Corrected Ave (3 peaks):					455.3	Corrected Ave (3 peaks):				193.7 RPD = 81*
Aroclor-1248	1	8.418	-0.009	70504	325.2	1	8.318	-0.003	46139	325.5
Aroclor-1248	2	8.592	-0.012	91659	331.1	2	8.724	-0.001	47256	317.0
Aroclor-1248	3	9.006	-0.016	97791	196.4	3	9.165	-0.005	8414	46.4
Aroclor-1248	4	9.312	0.001	74380	304.9	4	9.589	-0.002	4306	20.2
Total Col1Ave (4 peaks):					289.4	Total Col2Ave (4 peaks):				177.3 RPD = 48*
Corrected Ave (3 peaks):					275.5	Corrected Ave (3 peaks):				127.9 RPD = 73*
Aroclor-1254	1	9.312	-0.003	74380	167.5	1	9.457	-0.004	41659	186.2
Aroclor-1254	2	9.451	0.057	2150	12.5	2	9.977	-0.001	9412	52.3
Aroclor-1254	3	9.679	-0.008	14646	52.2	3	10.154	0.025	97451	252.1
Aroclor-1254	4	9.816	-0.005	44190	80.8	4	10.379	0.000	126562	316.1
Aroclor-1254	5	10.131	-0.045	209575	559.3	5	10.573	-0.003	170280	881.8
Total Col1Ave (5 peaks):					174.5	Total Col2Ave (5 peaks):				337.7 RPD = 64*
Corrected Ave (4 peaks):					78.3	Corrected Ave (4 peaks):				201.7 RPD = 88*
Aroclor-1260	1	11.054	-0.008	177432	422.0	1	11.661	-0.002	133200	442.3
Aroclor-1260	2	11.371	-0.007	187720	431.7	2	11.924	-0.001	328269	434.4
Aroclor-1260	3	11.742	-0.009	485167	424.6	3	12.443	-0.001	93645	465.4
Aroclor-1260	4	12.146	-0.012	260856	448.3	4	12.508	-0.001	231710	460.0
Aroclor-1260	5	12.253	-0.008	104533	438.8	NS	---			----
Total Col1Ave (5 peaks):					433.1	Total Col2Ave (4 peaks):				450.5 RPD = 4
Corrected Ave (4 peaks):					429.3	Corrected Ave (3 peaks):				445.6 RPD = 4
Aroclor-1262	1	10.834	-0.014	353843	916.0	1	11.208	-0.009	121818	280.8
Aroclor-1262	2	12.253	-0.009	104533	174.1	2	11.661	-0.009	133200	354.5
Aroclor-1262	3	12.329	-0.008	126593	197.4	3	12.443	-0.009	93645	226.0
Aroclor-1262	4	12.996	-0.009	120596	234.3	4	12.508	-0.011	231710	357.0
Total Col1Ave (4 peaks):					380.4	Total Col2Ave (4 peaks):				304.6 RPD = 22
Corrected Ave (3 peaks):					201.9	Corrected Ave (3 peaks):				287.1 RPD = 35
Aroclor-1268	1	12.253	-0.009	104533	64.7	1	12.443	-0.007	93645	87.0
Aroclor-1268	2	12.329	-0.006	126593	80.1	2	12.508	-0.009	231710	209.9
Aroclor-1268	3	12.733	0.017	56280	43.4	3	12.900	-0.009	4393	10.7
Aroclor-1268	4	13.498	-0.008	35546	9.0	4	13.717	-0.009	25541	8.7
Total Col1Ave (4 peaks):					49.3	Total Col2Ave (4 peaks):				79.1 RPD = 46*

Corrected Ave (3 peaks): 39.0 Corrected Ave (3 peaks): 35.5 RPD = 10

Total PCB Area Col1 (5.932 - 13.803) = 4783017 Col1 Total PCB = 1.0 ppm*

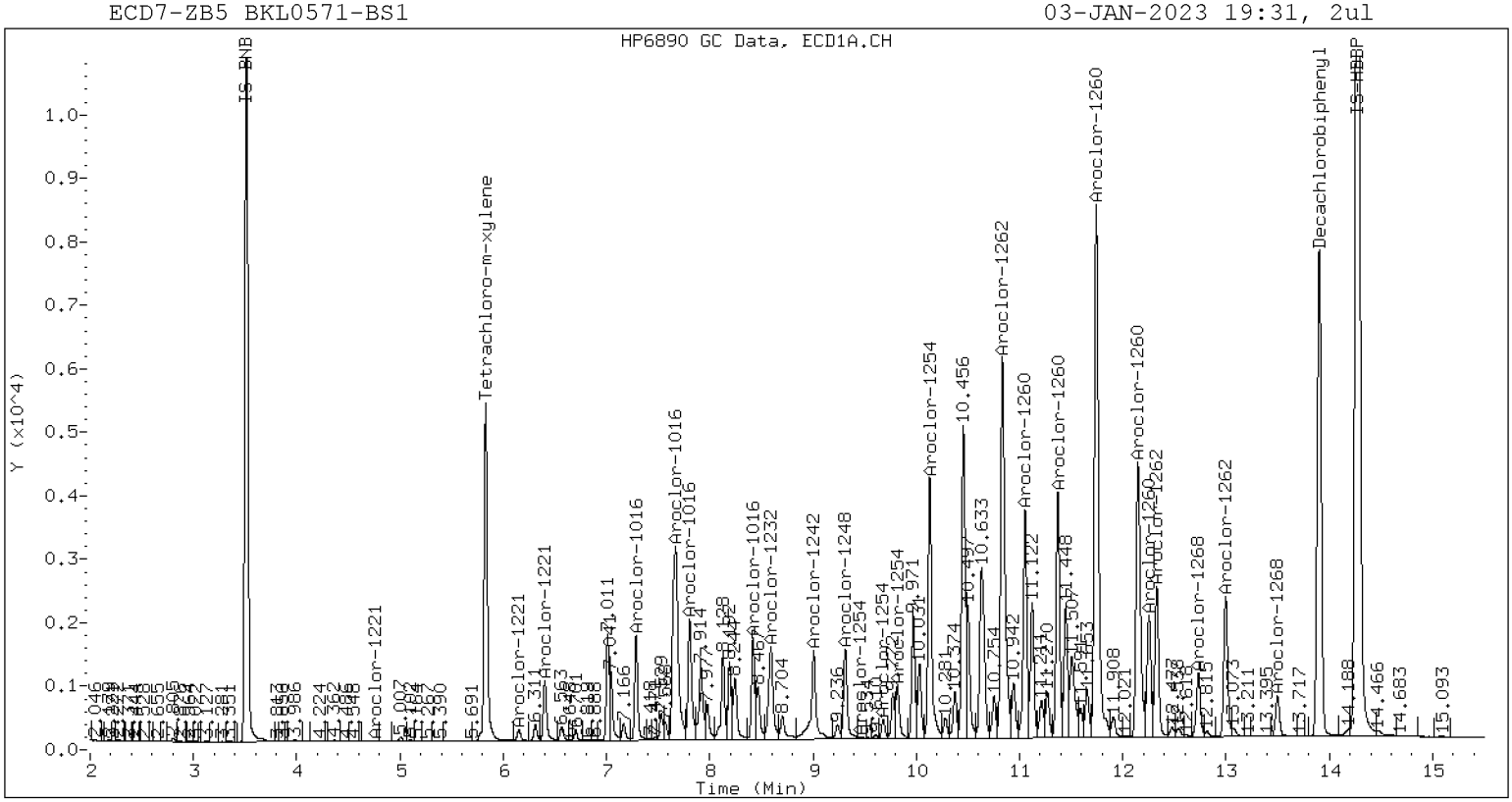
Total PCB Area Col2 (5.808 - 14.029) = 3060475 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

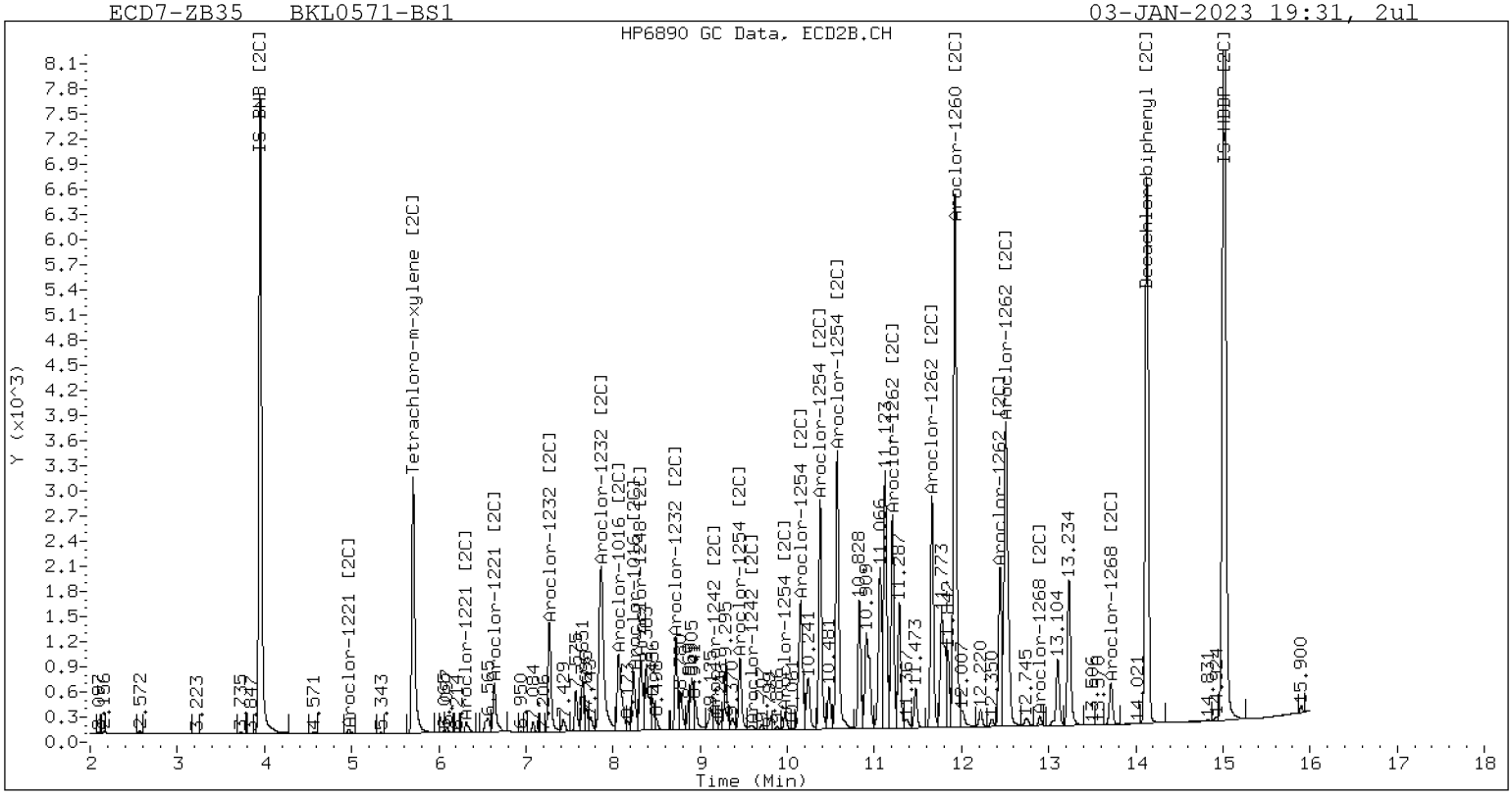
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-BS1 03-JAN-2023 19:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-BS1 03-JAN-2023 19:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032334ECD7.D
Data file 2: /230103.b/230103.b/01032334ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-BSD1
Client ID:
Injection Date: 03-JAN-2023 19:52
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	247687	5.707	-0.001	151891	35.1	32.7	7.2	Tetrachloro-m-xylene
13.903	0.000	434692	14.128	-0.001	343178	40.8	42.1	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	497858	11.2
Hexabromobiphenyl	798898	1160932	45.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	339107	36.1
Hexabromobiphenyl	362541	574327	58.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.287	-0.008	74062	446.0	1	7.270	-0.002	72631	418.9
Aroclor-1016	2	7.670	-0.014	247358	461.3	2	7.866	-0.006	165589	442.8
Aroclor-1016	3	7.807	-0.011	103237	424.9	3	8.065	-0.005	67366	419.5
Aroclor-1016	4	8.420	-0.010	74947	483.9	4	8.236	-0.005	39729	470.5
Total Col1Ave (4 peaks):					454.0	Total Col2Ave (4 peaks):				437.9 RPD = 4
Corrected Ave (3 peaks):					444.1	Corrected Ave (3 peaks):				427.1 RPD = 4
Aroclor-1221	1	4.756	-0.004	508	12.3	1	4.982	-0.005	327	11.4
Aroclor-1221	2	6.152	-0.007	10107	139.4	2	6.317	-0.005	7271	133.3
Aroclor-1221	3	6.403	-0.006	49016	293.0	3	6.639	-0.006	31576	344.0
Total Col1Ave (3 peaks):					148.3	Total Col2Ave (3 peaks):				162.9 RPD = 9
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.756	-0.005	508	20.5	1	4.982	-0.007	327	19.8
Aroclor-1232	2	6.152	-0.008	10107	193.2	2	7.270	-0.007	72631	862.5
Aroclor-1232	3	7.670	-0.013	247358	1052.8	3	7.866	-0.010	165589	1005.8
Aroclor-1232	4	8.593	-0.013	97658	979.6	4	8.724	-0.010	51509	1154.0
Total Col1Ave (4 peaks):					561.5	Total Col2Ave (4 peaks):				760.5 RPD = 30
Corrected Ave (3 peaks):					397.8	Corrected Ave (3 peaks):				629.4 RPD = 45*
Aroclor-1242	1	7.287	-0.002	74062	524.8	1	7.270	-0.001	72631	506.1
Aroclor-1242	2	7.670	-0.006	247358	552.1	2	7.866	-0.006	165589	543.5
Aroclor-1242	3	8.420	-0.002	74947	581.4	3	9.166	-0.003	9622	97.9
Aroclor-1242	4	9.007	-0.014	104533	390.5	4	9.590	0.001	5067	42.9
Total Col1Ave (4 peaks):					512.2	Total Col2Ave (4 peaks):				297.6 RPD = 53*
Corrected Ave (3 peaks):					489.1	Corrected Ave (3 peaks):				215.6 RPD = 78*
Aroclor-1248	1	8.420	-0.008	74947	350.1	1	8.319	-0.002	50149	362.0
Aroclor-1248	2	8.593	-0.011	97658	357.3	2	8.724	-0.001	51509	353.5
Aroclor-1248	3	9.007	-0.015	104533	212.6	3	9.166	-0.005	9622	54.3
Aroclor-1248	4	9.313	0.002	80078	332.5	4	9.590	-0.002	5067	24.4
Total Col1Ave (4 peaks):					313.1	Total Col2Ave (4 peaks):				198.5 RPD = 45*
Corrected Ave (3 peaks):					298.4	Corrected Ave (3 peaks):				144.1 RPD = 70*
Aroclor-1254	1	9.313	-0.001	80078	182.7	1	9.458	-0.003	45002	205.8
Aroclor-1254	2	9.450	0.057	2155	12.6	2	9.979	0.001	10117	57.6
Aroclor-1254	3	9.680	-0.007	15575	56.3	3	10.155	0.026	104075	275.4
Aroclor-1254	4	9.818	-0.003	47311	87.7	4	10.379	0.001	135106	345.3
Aroclor-1254	5	10.131	-0.045	224496	606.9	5	10.575	-0.002	182646	967.8
Total Col1Ave (5 peaks):					189.2	Total Col2Ave (5 peaks):				370.4 RPD = 65*
Corrected Ave (4 peaks):					84.8	Corrected Ave (4 peaks):				221.0 RPD = 89*
Aroclor-1260	1	11.055	-0.008	191219	452.5	1	11.662	-0.001	144124	475.4
Aroclor-1260	2	11.372	-0.005	203045	464.6	2	11.925	-0.000	355456	467.3
Aroclor-1260	3	11.745	-0.007	527046	458.9	3	12.443	-0.001	101421	500.7
Aroclor-1260	4	12.148	-0.010	281344	481.1	4	12.509	-0.001	251974	496.9
Aroclor-1260	5	12.254	-0.007	113849	475.6	NS	---			----
Total Col1Ave (5 peaks):					466.5	Total Col2Ave (4 peaks):				485.1 RPD = 4
Corrected Ave (4 peaks):					462.9	Corrected Ave (3 peaks):				479.8 RPD = 4
Aroclor-1262	1	10.835	-0.013	380133	979.1	1	11.208	-0.009	132063	302.4
Aroclor-1262	2	12.254	-0.008	113849	188.6	2	11.662	-0.008	144124	381.1
Aroclor-1262	3	12.329	-0.008	137356	213.1	3	12.443	-0.009	101421	243.1
Aroclor-1262	4	12.998	-0.007	132704	256.5	4	12.509	-0.011	251974	385.6
Total Col1Ave (4 peaks):					409.3	Total Col2Ave (4 peaks):				328.0 RPD = 22
Corrected Ave (3 peaks):					219.4	Corrected Ave (3 peaks):				308.9 RPD = 34
Aroclor-1268	1	12.254	-0.008	113849	70.1	1	12.443	-0.007	101421	93.6
Aroclor-1268	2	12.329	-0.006	137356	86.4	2	12.509	-0.009	251974	226.7
Aroclor-1268	3	12.735	0.018	61654	47.3	3	12.901	-0.009	4596	11.1
Aroclor-1268	4	13.498	-0.008	39078	9.8	4	13.717	-0.009	28189	9.5
Total Col1Ave (4 peaks):					53.4	Total Col2Ave (4 peaks):				85.2 RPD = 46*

Corrected Ave (3 peaks): 42.4 Corrected Ave (3 peaks): 38.1 RPD = 11

Total PCB Area Col1 (5.932 - 13.803) = 5144935 Col1 Total PCB = 1.1 ppm*

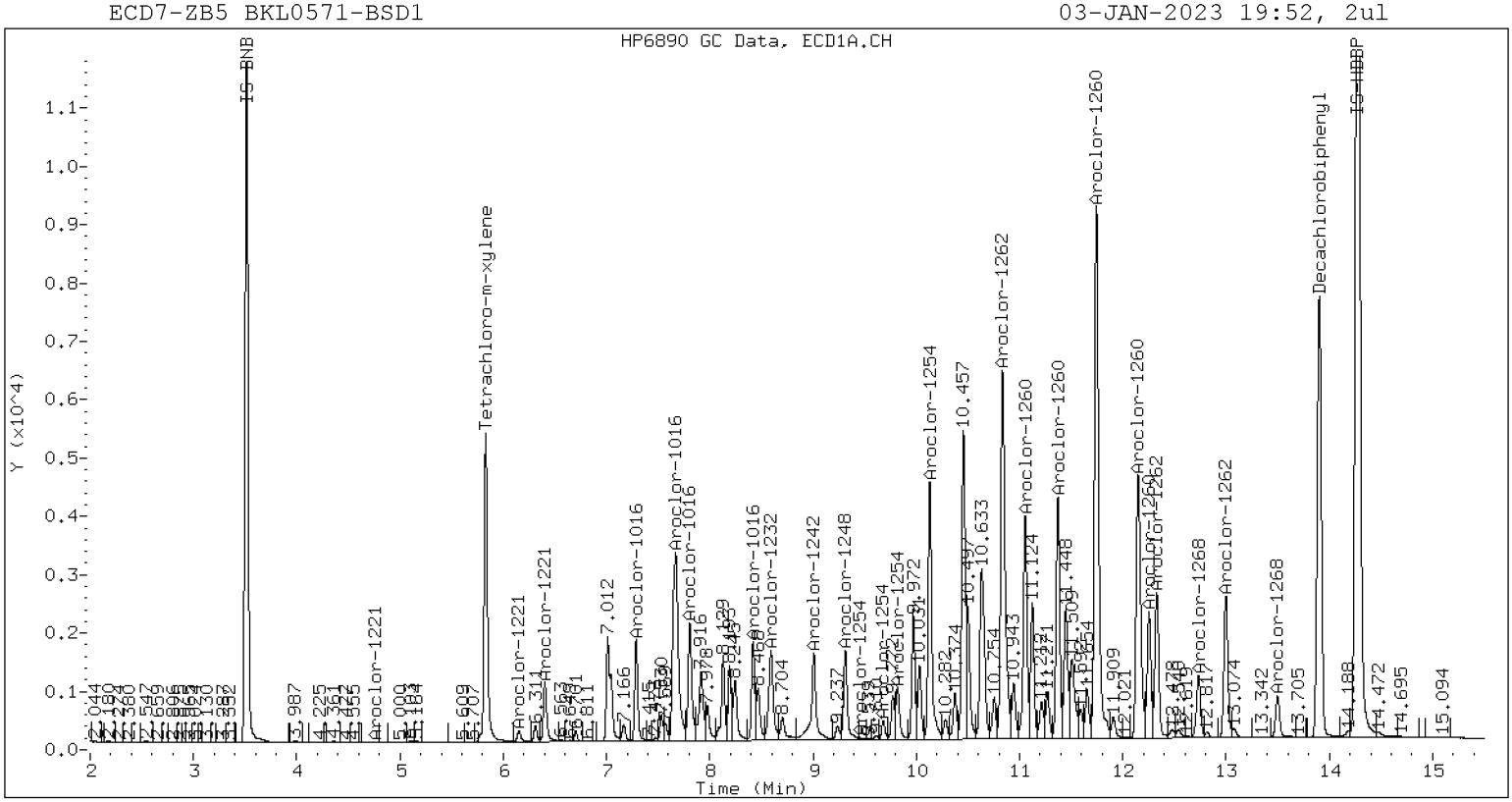
Total PCB Area Col2 (5.808 - 14.029) = 3306477 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

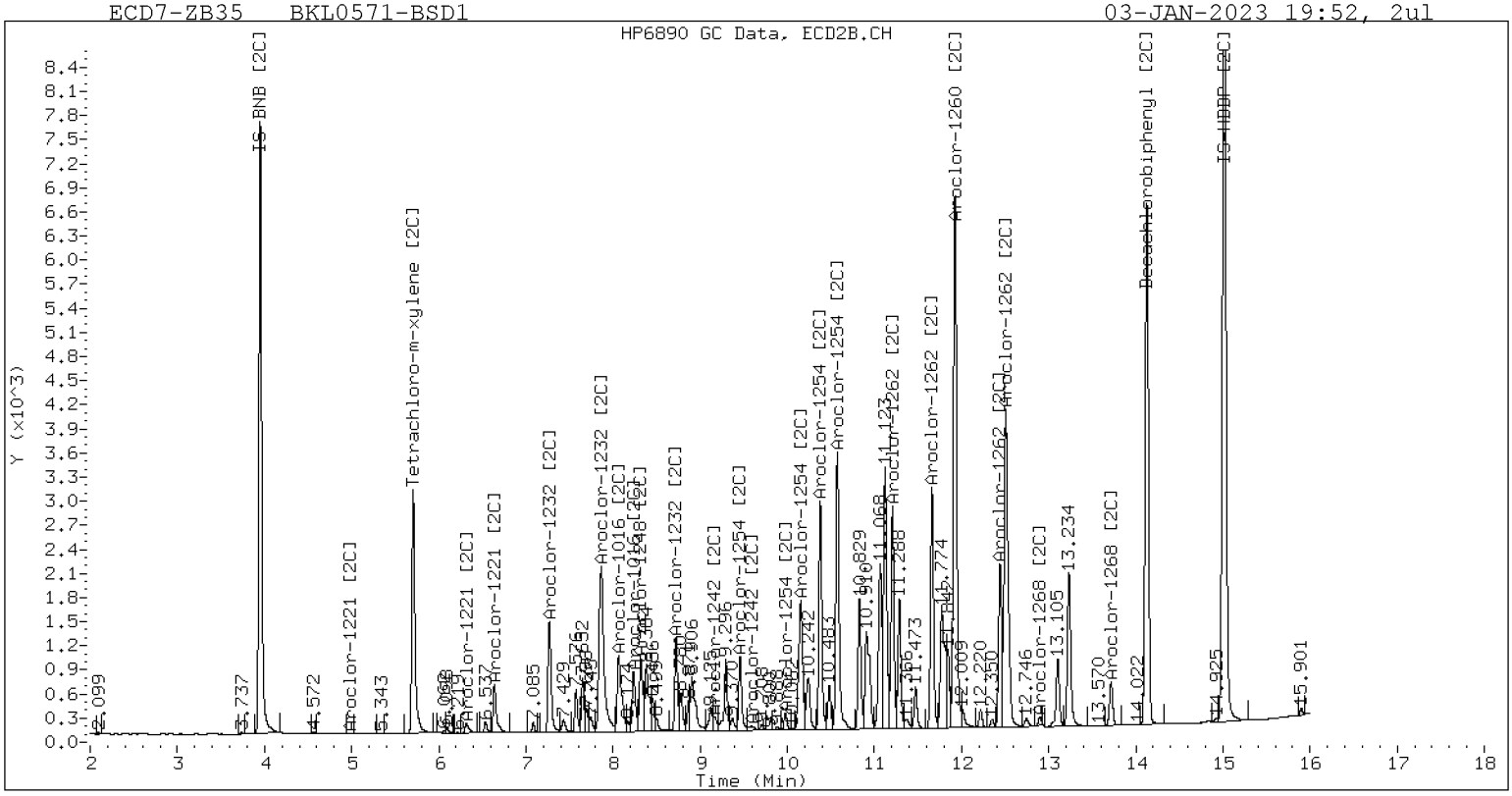
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-BSD1 03-JAN-2023 19:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-BSD1 03-JAN-2023 19:52, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 07:11
Batch:	BKL0490	Laboratory ID:	BKL0490-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	19.51 g / 2.5 mL	Source Sample:	LDW22-IT810G

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	42.0	*, P1	41.6 *	56 - 120
Aroclor 1260	101	ND	U	85.8		85.0	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/05/23 07:32
Batch:	BKL0490	Laboratory ID:	BKL0490-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	19.51 g / 2.5 mL	Source Sample:	LDW22-IT810G

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	40.6	*, P1	40.3 *	3.28	30	56 - 120
Aroclor 1260	101	87.0		86.1	1.46	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042363ECD7.D
Data file 2: /230104.b/230104.b/01042363ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-MS1
Client ID:
Injection Date: 05-JAN-2023 07:11
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	190193	5.702	-0.005	137426	23.9	31.0	26.0	Tetrachloro-m-xylene
13.895	-0.007	195652	14.123	-0.005	205794	43.1	38.2	12.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	562323	25.6
Hexabromobiphenyl	798898	494830	-38.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	323543	29.9
Hexabromobiphenyl	362541	379513	4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.280	-0.009	63486	338.5	1	7.266	-0.004	69869	422.4
Aroclor-1016	2	7.710	0.033	10999	18.2	2	7.852	-0.019	114154	320.0
Aroclor-1016	3	7.794	-0.018	62057	226.1	3	8.053	-0.016	46379	302.7
Aroclor-1016	4	8.409	-0.012	44943	256.9	4	8.222	-0.018	28471	353.4
Total Col1Ave (4 peaks):					209.9	Total Col2Ave (4 peaks):				349.6 RPD = 50*
Corrected Ave (3 peaks):					167.1	Corrected Ave (3 peaks):				325.4 RPD = 64*
Aroclor-1221	1	4.743	-0.017	1583	34.1	1	4.994	0.007	2914	106.7
Aroclor-1221	2	6.146	-0.013	8482	103.6	2	6.358	0.037	41392	795.4
Aroclor-1221	3	6.396	-0.012	43349	229.5	3	6.633	-0.013	27736	316.7
Total Col1Ave (3 peaks):					122.4	Total Col2Ave (3 peaks):				406.3 RPD = 107*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.743	-0.018	1583	56.6	1	4.994	0.005	2914	185.2
Aroclor-1232	2	6.146	-0.014	8482	143.5	2	7.266	-0.011	69869	869.6
Aroclor-1232	3	7.710	0.027	10999	41.4	3	7.852	-0.024	114154	726.8
Aroclor-1232	4	8.579	-0.027	51120	454.0	4	8.715	-0.019	34427	808.4
Total Col1Ave (4 peaks):					173.9	Total Col2Ave (4 peaks):				647.5 RPD = 115*
Corrected Ave (3 peaks):					80.5	Corrected Ave (3 peaks):				573.4 RPD = 151*
Aroclor-1242	1	7.280	-0.008	63486	398.3	1	7.266	-0.004	69869	510.2
Aroclor-1242	2	7.710	0.036	10999	21.7	2	7.852	-0.016	114154	392.7
Aroclor-1242	3	8.409	-0.012	44943	308.7	3	9.146	-0.021	6543	69.8
Aroclor-1242	4	8.997	-0.023	35891	118.7	4	9.567	-0.021	3435	30.5
Total Col1Ave (4 peaks):					211.9	Total Col2Ave (4 peaks):				250.8 RPD = 17
Corrected Ave (3 peaks):					149.7	Corrected Ave (3 peaks):				164.3 RPD = 9
Aroclor-1248	1	8.409	-0.018	44943	185.9	1	8.311	-0.010	31819	240.7
Aroclor-1248	2	8.579	-0.026	51120	165.6	2	8.715	-0.010	34427	247.6
Aroclor-1248	3	8.997	-0.025	35891	64.6	3	9.146	-0.024	6543	38.7
Aroclor-1248	4	9.299	-0.012	36625	134.6	4	9.567	-0.026	3435	17.3
Total Col1Ave (4 peaks):					137.7	Total Col2Ave (4 peaks):				136.1 RPD = 1
Corrected Ave (3 peaks):					121.6	Corrected Ave (3 peaks):				98.9 RPD = 21
Aroclor-1254	1	9.299	-0.022	36625	74.0	1	9.447	-0.013	24609	118.0
Aroclor-1254	2	9.371	-0.031	990	5.1	2	9.965	-0.013	6870	41.0
Aroclor-1254	3	9.662	-0.032	8186	26.2	3	10.145	0.016	53492	148.4
Aroclor-1254	4	9.795	-0.036	38020	62.4	4	10.370	-0.008	75053	201.0
Aroclor-1254	5	10.121	-0.069	98431	235.6	5	10.562	-0.012	95326	529.4
Total Col1Ave (5 peaks):					80.6	Total Col2Ave (5 peaks):				207.5 RPD = 88*
Corrected Ave (4 peaks):					41.9	Corrected Ave (4 peaks):				127.1 RPD = 101*
Aroclor-1260	1	11.043	-0.012	78459	435.6	1	11.652	-0.008	69382	346.3
Aroclor-1260	2	11.360	-0.012	79375	426.1	2	11.913	-0.011	185940	369.9
Aroclor-1260	3	11.729	-0.017	205694	420.2	3	12.433	-0.009	55931	417.8
Aroclor-1260	4	12.129	-0.021	108532	435.4	4	12.495	-0.011	121068	361.3
Aroclor-1260	5	12.244	-0.011	43575	427.0	NS	---			----
Total Col1Ave (5 peaks):					428.9	Total Col2Ave (4 peaks):				373.8 RPD = 14
Corrected Ave (4 peaks):					427.2	Corrected Ave (3 peaks):				359.2 RPD = 17
Aroclor-1262	1	10.817	-0.031	160043	967.2	1	11.198	-0.019	64452	223.4
Aroclor-1262	2	12.244	-0.019	43575	169.4	2	11.652	-0.018	69382	277.6
Aroclor-1262	3	12.317	-0.020	50275	183.0	3	12.433	-0.018	55931	202.9
Aroclor-1262	4	12.982	-0.023	47177	213.9	4	12.495	-0.024	121068	280.4
Total Col1Ave (4 peaks):					383.4	Total Col2Ave (4 peaks):				246.0 RPD = 44*
Corrected Ave (3 peaks):					188.8	Corrected Ave (3 peaks):				234.6 RPD = 22
Aroclor-1268	1	12.244	-0.019	43575	62.9	1	12.433	-0.017	55931	78.1
Aroclor-1268	2	12.317	-0.018	50275	74.2	2	12.495	-0.022	121068	164.8
Aroclor-1268	3	12.718	0.002	26228	47.2	3	12.894	-0.015	5151	18.9
Aroclor-1268	4	13.487	-0.018	20261	12.0	4	13.708	-0.018	21532	11.0
Total Col1Ave (4 peaks):					49.1	Total Col2Ave (4 peaks):				68.2 RPD = 33

Corrected Ave (3 peaks): 40.7 Corrected Ave (3 peaks): 36.0 RPD = 12

Total PCB Area Col1 (5.930 - 13.802) = 2760755 Col1 Total PCB = 0.5 ppm*

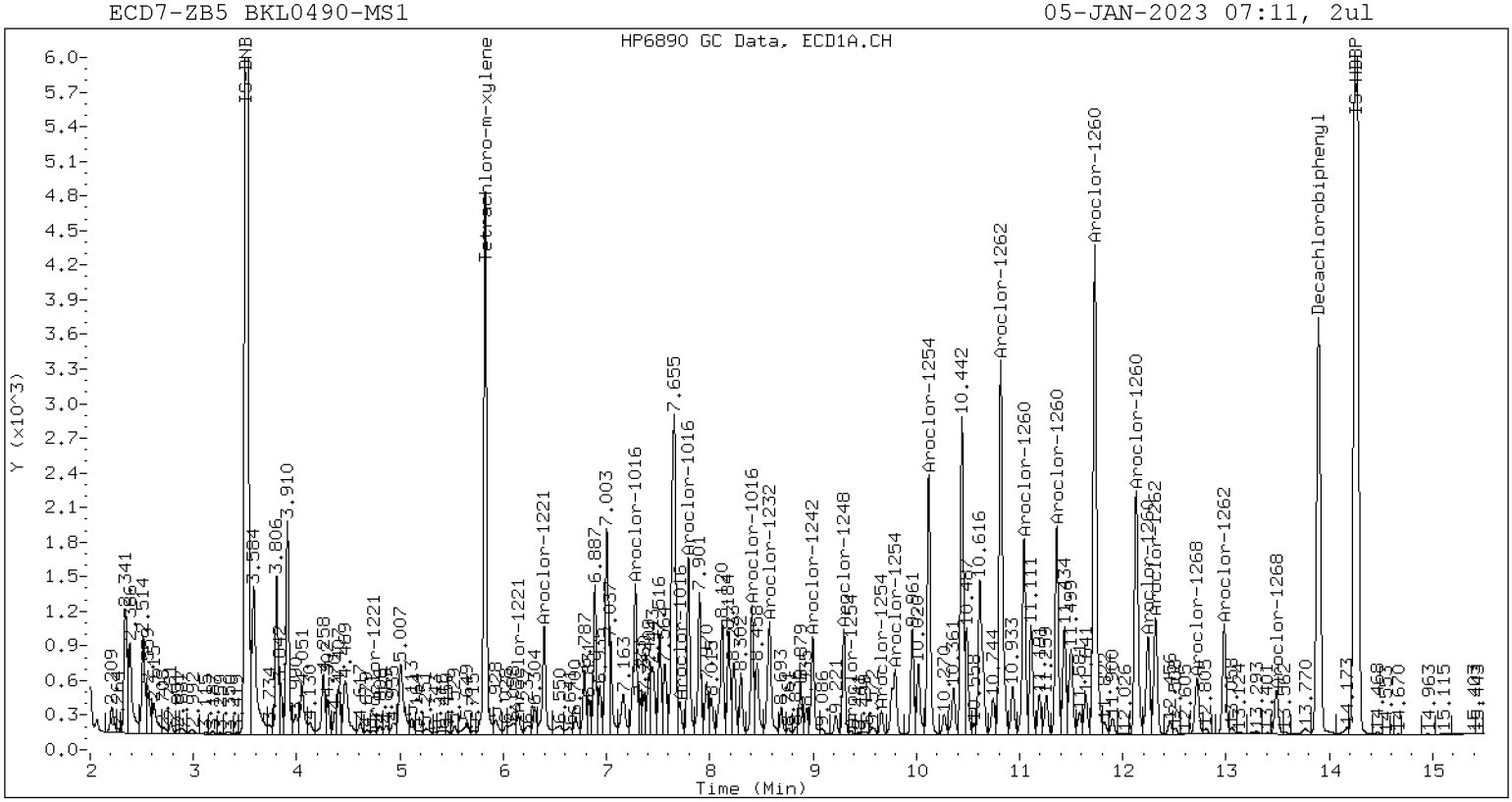
Total PCB Area Col2 (5.807 - 14.028) = 2099867 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

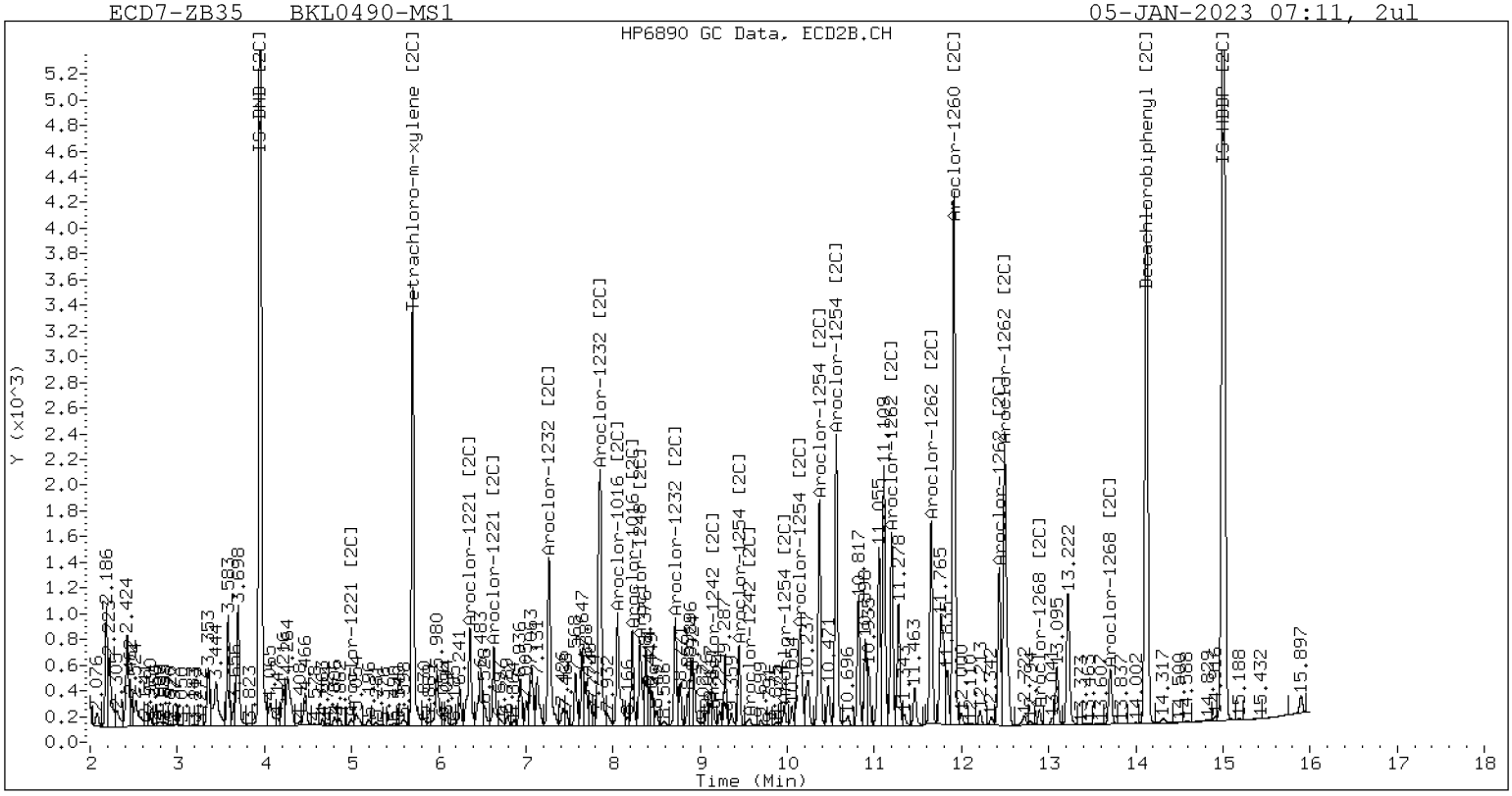
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-MS1 05-JAN-2023 07:11, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-MS1 05-JAN-2023 07:11, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042364ECD7.D
Data file 2: /230104.b/230104.b/01042364ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-MSD1
Client ID:
Injection Date: 05-JAN-2023 07:32
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.825	-0.005	185299	5.702	-0.005	135488	23.9	30.9	25.5	Tetrachloro-m-xylene
13.895	-0.007	170063	14.122	-0.006	185793	43.1	38.4	11.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	547604	22.3
Hexabromobiphenyl	798898	430491	-46.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	320384	28.6
Hexabromobiphenyl	362541	340927	-6.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.280	-0.009	59848	327.6	1	7.266	-0.004	63207	385.9
Aroclor-1016	2	7.710	0.033	11237	19.1	2	7.852	-0.019	108077	305.9
Aroclor-1016	3	7.793	-0.019	58379	218.4	3	8.053	-0.016	43462	286.5
Aroclor-1016	4	8.408	-0.013	42149	247.4	4	8.222	-0.018	29504	369.8
Total Col1Ave (4 peaks):					203.1	Total Col2Ave (4 peaks):				337.0 RPD = 50*
Corrected Ave (3 peaks):					161.6	Corrected Ave (3 peaks):				320.7 RPD = 66*
Aroclor-1221	1	4.802	0.042	9749	215.4	1	4.995	0.008	4096	151.5
Aroclor-1221	2	6.146	-0.013	9556	119.8	2	6.359	0.037	38952	755.9
Aroclor-1221	3	6.396	-0.013	41409	225.1	3	6.633	-0.012	27088	312.4
Total Col1Ave (3 peaks):					186.8	Total Col2Ave (3 peaks):				406.6 RPD = 74*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.802	0.041	9749	357.8	1	4.995	0.006	4096	262.9
Aroclor-1232	2	6.146	-0.014	9556	166.1	2	7.266	-0.011	63207	794.4
Aroclor-1232	3	7.710	0.027	11237	43.5	3	7.852	-0.024	108077	694.8
Aroclor-1232	4	8.578	-0.028	48390	441.3	4	8.716	-0.018	33120	785.3
Total Col1Ave (4 peaks):					252.2	Total Col2Ave (4 peaks):				634.4 RPD = 86*
Corrected Ave (3 peaks):					189.1	Corrected Ave (3 peaks):				581.0 RPD = 102*
Aroclor-1242	1	7.280	-0.008	59848	385.6	1	7.266	-0.003	63207	466.1
Aroclor-1242	2	7.710	0.036	11237	22.8	2	7.852	-0.016	108077	375.5
Aroclor-1242	3	8.408	-0.013	42149	297.3	3	9.146	-0.021	6313	68.0
Aroclor-1242	4	8.996	-0.024	34418	116.9	4	9.566	-0.022	3740	33.5
Total Col1Ave (4 peaks):					205.6	Total Col2Ave (4 peaks):				235.8 RPD = 14
Corrected Ave (3 peaks):					145.7	Corrected Ave (3 peaks):				159.0 RPD = 9
Aroclor-1248	1	8.408	-0.019	42149	179.0	1	8.311	-0.009	29800	227.7
Aroclor-1248	2	8.578	-0.026	48390	161.0	2	8.716	-0.010	33120	240.6
Aroclor-1248	3	8.996	-0.026	34418	63.6	3	9.146	-0.024	6313	37.7
Aroclor-1248	4	9.297	-0.014	34236	129.2	4	9.566	-0.026	3740	19.0
Total Col1Ave (4 peaks):					133.2	Total Col2Ave (4 peaks):				131.3 RPD = 1
Corrected Ave (3 peaks):					117.9	Corrected Ave (3 peaks):				94.8 RPD = 22
Aroclor-1254	1	9.297	-0.024	34236	71.0	1	9.447	-0.013	23471	113.6
Aroclor-1254	2	9.371	-0.031	1326	7.1	2	9.965	-0.013	7027	42.3
Aroclor-1254	3	9.661	-0.033	7848	25.8	3	10.145	0.016	51558	144.4
Aroclor-1254	4	9.795	-0.036	35140	59.2	4	10.369	-0.009	69221	187.2
Aroclor-1254	5	10.119	-0.070	90100	221.4	5	10.562	-0.013	88684	497.4
Total Col1Ave (5 peaks):					76.9	Total Col2Ave (5 peaks):				197.0 RPD = 88*
Corrected Ave (4 peaks):					40.8	Corrected Ave (4 peaks):				121.9 RPD = 100*
Aroclor-1260	1	11.042	-0.013	70436	449.5	1	11.651	-0.009	64467	358.2
Aroclor-1260	2	11.359	-0.013	70491	434.9	2	11.912	-0.011	169280	374.9
Aroclor-1260	3	11.728	-0.018	182267	428.0	3	12.432	-0.010	52041	432.8
Aroclor-1260	4	12.129	-0.021	94836	437.3	4	12.496	-0.011	109154	362.6
Aroclor-1260	5	12.242	-0.012	37817	426.0	NS	---			----
Total Col1Ave (5 peaks):					435.2	Total Col2Ave (4 peaks):				382.1 RPD = 13
Corrected Ave (4 peaks):					431.6	Corrected Ave (3 peaks):				365.2 RPD = 17
Aroclor-1262	1	10.816	-0.032	145409	1010.1	1	11.198	-0.019	59442	229.3
Aroclor-1262	2	12.242	-0.020	37817	169.0	2	11.651	-0.019	64467	287.1
Aroclor-1262	3	12.316	-0.020	43463	181.8	3	12.432	-0.019	52041	210.1
Aroclor-1262	4	12.982	-0.023	42144	219.7	4	12.496	-0.024	109154	281.4
Total Col1Ave (4 peaks):					395.1	Total Col2Ave (4 peaks):				252.0 RPD = 44*
Corrected Ave (3 peaks):					190.2	Corrected Ave (3 peaks):				240.3 RPD = 23
Aroclor-1268	1	12.242	-0.020	37817	62.8	1	12.432	-0.017	52041	80.9
Aroclor-1268	2	12.316	-0.019	43463	73.8	2	12.496	-0.022	109154	165.4
Aroclor-1268	3	12.718	0.002	22399	46.4	3	12.894	-0.016	4714	19.3
Aroclor-1268	4	13.487	-0.019	19333	13.1	4	13.708	-0.018	20557	11.7
Total Col1Ave (4 peaks):					49.0	Total Col2Ave (4 peaks):				69.3 RPD = 34

Corrected Ave (3 peaks): 40.8 Corrected Ave (3 peaks): 37.3 RPD = 9

Total PCB Area Col1 (5.930 - 13.802) = 2613550 Col1 Total PCB = 0.5 ppm*

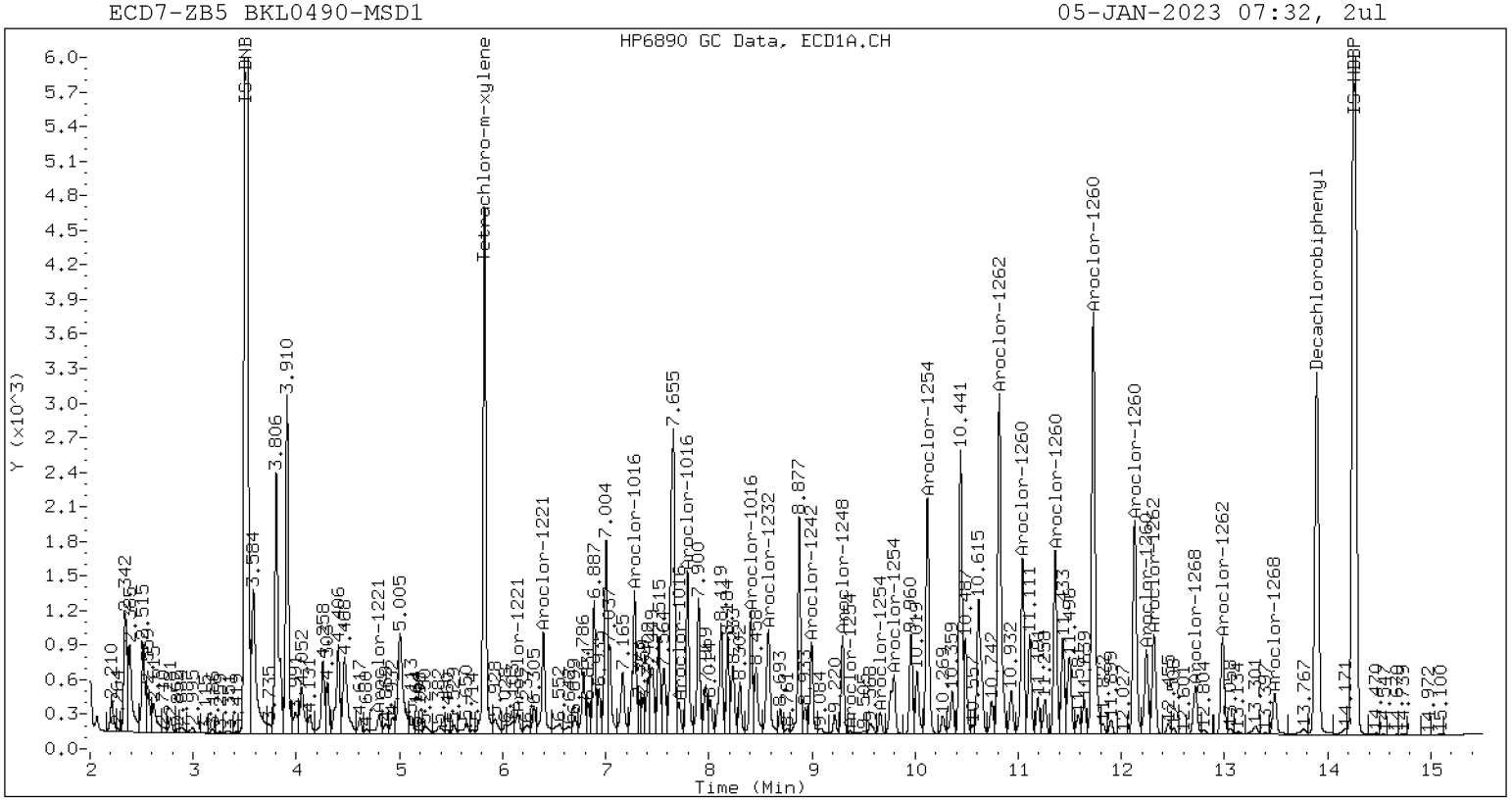
Total PCB Area Col2 (5.807 - 14.028) = 1992331 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

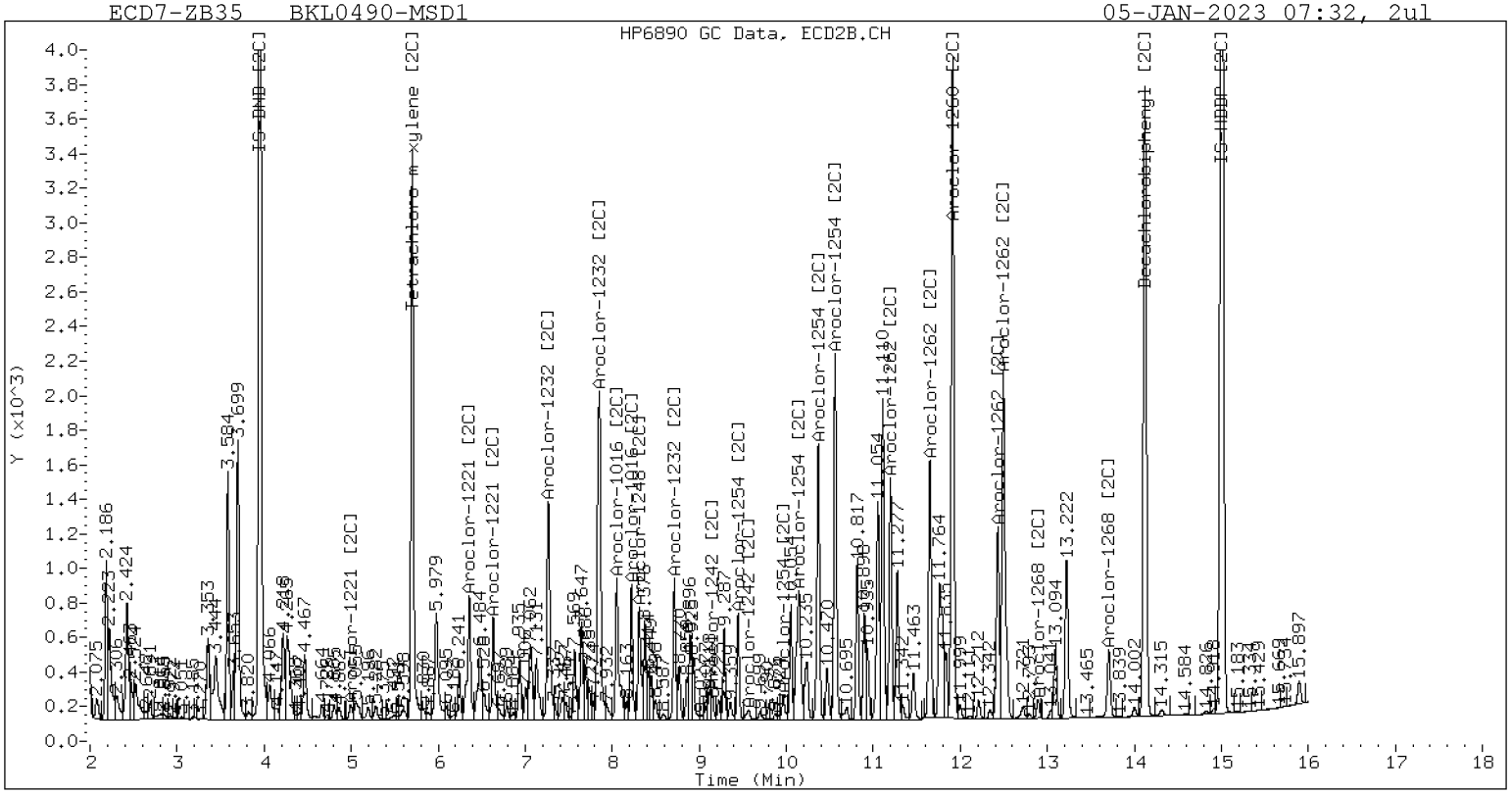
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-MSD1 05-JAN-2023 07:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-MSD1 05-JAN-2023 07:32, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/04/23 18:10
Batch:	BKL0492	Laboratory ID:	BKL0492-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	16.78 g / 2.5 mL	Source Sample:	LDW22-SC759E

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	71.9		71.4	56 - 120
Aroclor 1260 [2C]	101	12.0		87.8		75.2	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/04/23 18:31
Batch:	BKL0492	Laboratory ID:	BKL0492-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	16.78 g / 2.5 mL	Source Sample:	LDW22-SC759E

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	75.1		74.5	4.34	30	56 - 120
Aroclor 1260 [2C]	101	89.0		76.4	1.32	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042326ECD7.D
Data file 2: /230104.b/230104.b/01042326ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-MS1
Client ID:
Injection Date: 04-JAN-2023 18:10
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.827	-0.004	188478	5.703	-0.004	126196	26.6	28.7	7.3	Tetrachloro-m-xylene
13.897	-0.005	225574	14.123	-0.005	218638	37.8	34.2	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	499556	11.6
Hexabromobiphenyl	798898	651108	-18.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	321332	29.0
Hexabromobiphenyl	362541	450931	24.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.283	-0.005	60421	362.6	1	7.267	-0.003	60862	370.4
Aroclor-1016	2	7.660	-0.017	198014	368.1	2	7.857	-0.014	133506	376.8
Aroclor-1016	3	7.797	-0.015	77597	318.3	3	8.057	-0.012	54390	357.4
Aroclor-1016	4	8.412	-0.010	60545	389.5	4	8.226	-0.014	32139	401.7
	Total Col1Ave (4 peaks):				359.6	Total Col2Ave (4 peaks):				376.6 RPD = 5
	Corrected Ave (3 peaks):				349.6	Corrected Ave (3 peaks):				368.2 RPD = 5
Aroclor-1221	1	4.754	-0.006	1424	34.5	1	4.992	0.004	485	17.9
Aroclor-1221	2	6.148	-0.011	8466	116.4	2	6.313	-0.008	8821	170.7
Aroclor-1221	3	6.398	-0.011	42270	251.9	3	6.635	-0.010	26882	309.1
	Total Col1Ave (3 peaks):				134.2	Total Col2Ave (3 peaks):				165.9 RPD = 21
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.754	-0.007	1424	57.3	1	4.992	0.002	485	31.0
Aroclor-1232	2	6.148	-0.012	8466	161.3	2	7.267	-0.010	60862	762.7
Aroclor-1232	3	7.660	-0.023	198014	839.9	3	7.857	-0.019	133506	855.8
Aroclor-1232	4	8.581	-0.025	65446	654.3	4	8.718	-0.016	44302	1047.4
	Total Col1Ave (4 peaks):				428.2	Total Col2Ave (4 peaks):				674.2 RPD = 45*
	Corrected Ave (3 peaks):				290.9	Corrected Ave (3 peaks):				549.8 RPD = 62*
Aroclor-1242	1	7.283	-0.004	60421	426.7	1	7.267	-0.003	60862	447.5
Aroclor-1242	2	7.660	-0.014	198014	440.4	2	7.857	-0.011	133506	462.4
Aroclor-1242	3	8.412	-0.009	60545	468.1	3	9.151	-0.017	10767	115.6
Aroclor-1242	4	9.000	-0.021	80572	300.0	4	9.631	0.043	3893	34.8
	Total Col1Ave (4 peaks):				408.8	Total Col2Ave (4 peaks):				265.1 RPD = 43*
	Corrected Ave (3 peaks):				389.0	Corrected Ave (3 peaks):				199.3 RPD = 65*
Aroclor-1248	1	8.412	-0.016	60545	281.9	1	8.314	-0.007	63382	482.8
Aroclor-1248	2	8.581	-0.023	65446	238.6	2	8.718	-0.007	44302	320.9
Aroclor-1248	3	9.000	-0.023	80572	163.3	3	9.151	-0.020	10767	64.1
Aroclor-1248	4	9.302	-0.010	70273	290.8	4	9.631	0.038	3893	19.7
	Total Col1Ave (4 peaks):				243.6	Total Col2Ave (4 peaks):				221.9 RPD = 9
	Corrected Ave (3 peaks):				227.9	Corrected Ave (3 peaks):				134.9 RPD = 51*
Aroclor-1254	1	9.302	-0.019	70273	159.8	1	9.450	-0.010	45982	221.9
Aroclor-1254	2	9.374	-0.027	13489	78.9	2	9.968	-0.010	11340	68.1
Aroclor-1254	3	9.667	-0.028	20254	72.9	3	10.148	0.019	59040	164.9
Aroclor-1254	4	9.800	-0.031	91339	168.7	4	10.372	-0.005	130055	350.7
Aroclor-1254	5	10.123	-0.066	180739	486.9	5	10.565	-0.009	138364	773.7
	Total Col1Ave (5 peaks):				193.4	Total Col2Ave (5 peaks):				315.9 RPD = 48*
	Corrected Ave (4 peaks):				120.1	Corrected Ave (4 peaks):				201.4 RPD = 51*
Aroclor-1260	1	11.046	-0.009	126785	534.9	1	11.655	-0.006	98909	415.5
Aroclor-1260	2	11.362	-0.010	120119	490.0	2	11.915	-0.008	256086	428.8
Aroclor-1260	3	11.732	-0.014	313503	486.8	3	12.434	-0.008	78262	492.1
Aroclor-1260	4	12.133	-0.017	165080	503.3	4	12.499	-0.007	167451	420.6
Aroclor-1260	5	12.246	-0.009	68423	509.6	NS	---			----
	Total Col1Ave (5 peaks):				504.9	Total Col2Ave (4 peaks):				439.2 RPD = 14
	Corrected Ave (4 peaks):				497.4	Corrected Ave (3 peaks):				421.6 RPD = 16
Aroclor-1262	1	10.822	-0.027	249001	1143.6	1	11.201	-0.016	97816	285.3
Aroclor-1262	2	12.246	-0.017	68423	202.1	2	11.655	-0.015	98909	333.1
Aroclor-1262	3	12.319	-0.018	80473	222.6	3	12.434	-0.017	78262	238.9
Aroclor-1262	4	12.985	-0.020	74827	257.9	4	12.499	-0.020	167451	326.3
	Total Col1Ave (4 peaks):				456.5	Total Col2Ave (4 peaks):				295.9 RPD = 43*
	Corrected Ave (3 peaks):				227.5	Corrected Ave (3 peaks):				283.5 RPD = 22
Aroclor-1268	1	12.246	-0.017	68423	75.1	1	12.434	-0.015	78262	91.9
Aroclor-1268	2	12.319	-0.016	80473	90.3	2	12.499	-0.018	167451	191.9
Aroclor-1268	3	12.721	0.005	38680	53.0	3	12.896	-0.013	4391	13.6
Aroclor-1268	4	13.489	-0.016	22385	10.0	4	13.708	-0.018	22543	9.7
	Total Col1Ave (4 peaks):				57.1	Total Col2Ave (4 peaks):				76.8 RPD = 29

Corrected Ave (3 peaks): 46.0 Corrected Ave (3 peaks): 38.4 RPD = 18

Total PCB Area Col1 (5.930 - 13.802) = 3750953 Col1 Total PCB = 0.8 ppm*

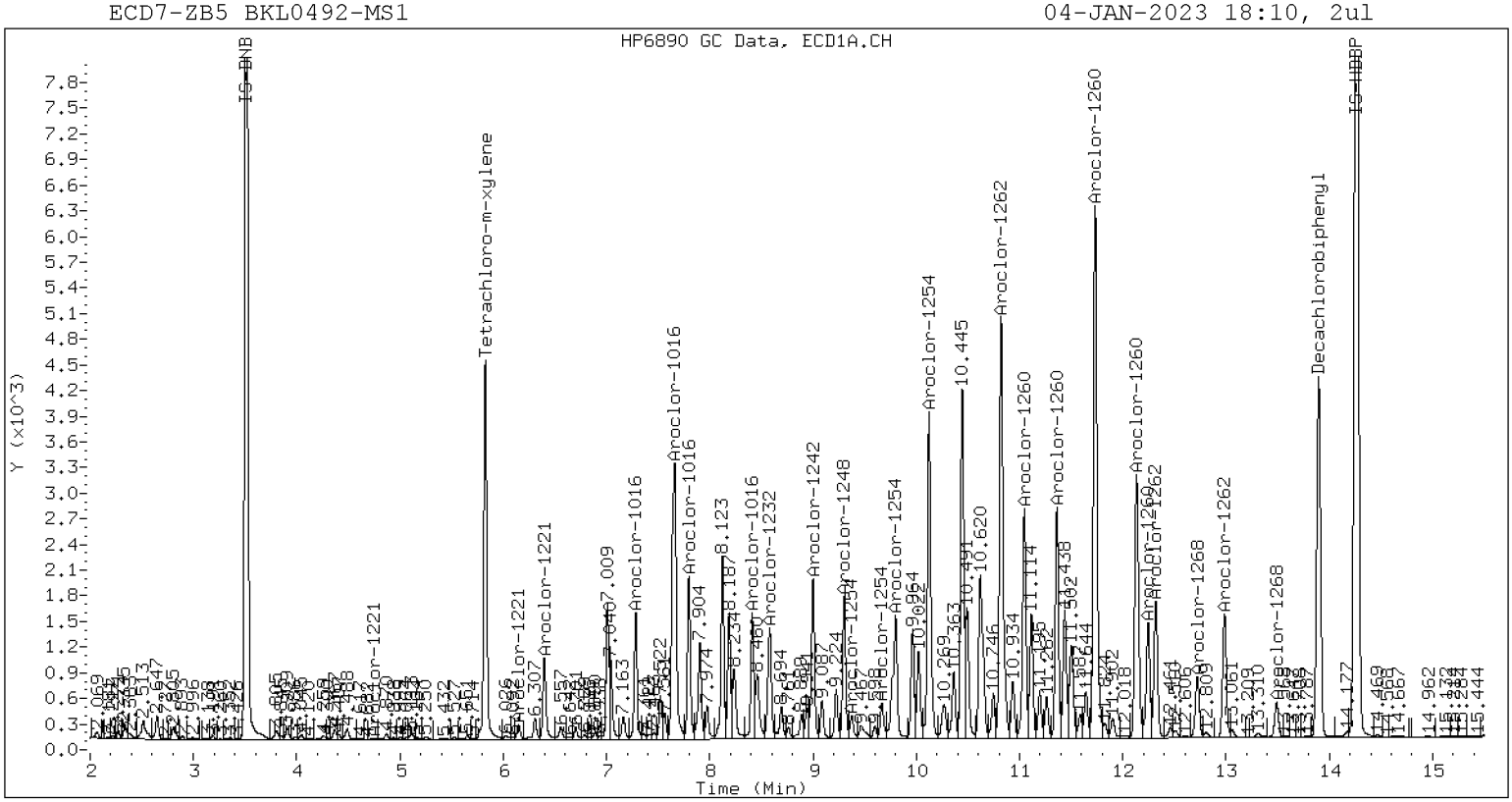
Total PCB Area Col2 (5.807 - 14.028) = 2714924 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-MS1 04-JAN-2023 18:10, 2ul



ZB-5 Manual Integration: NO

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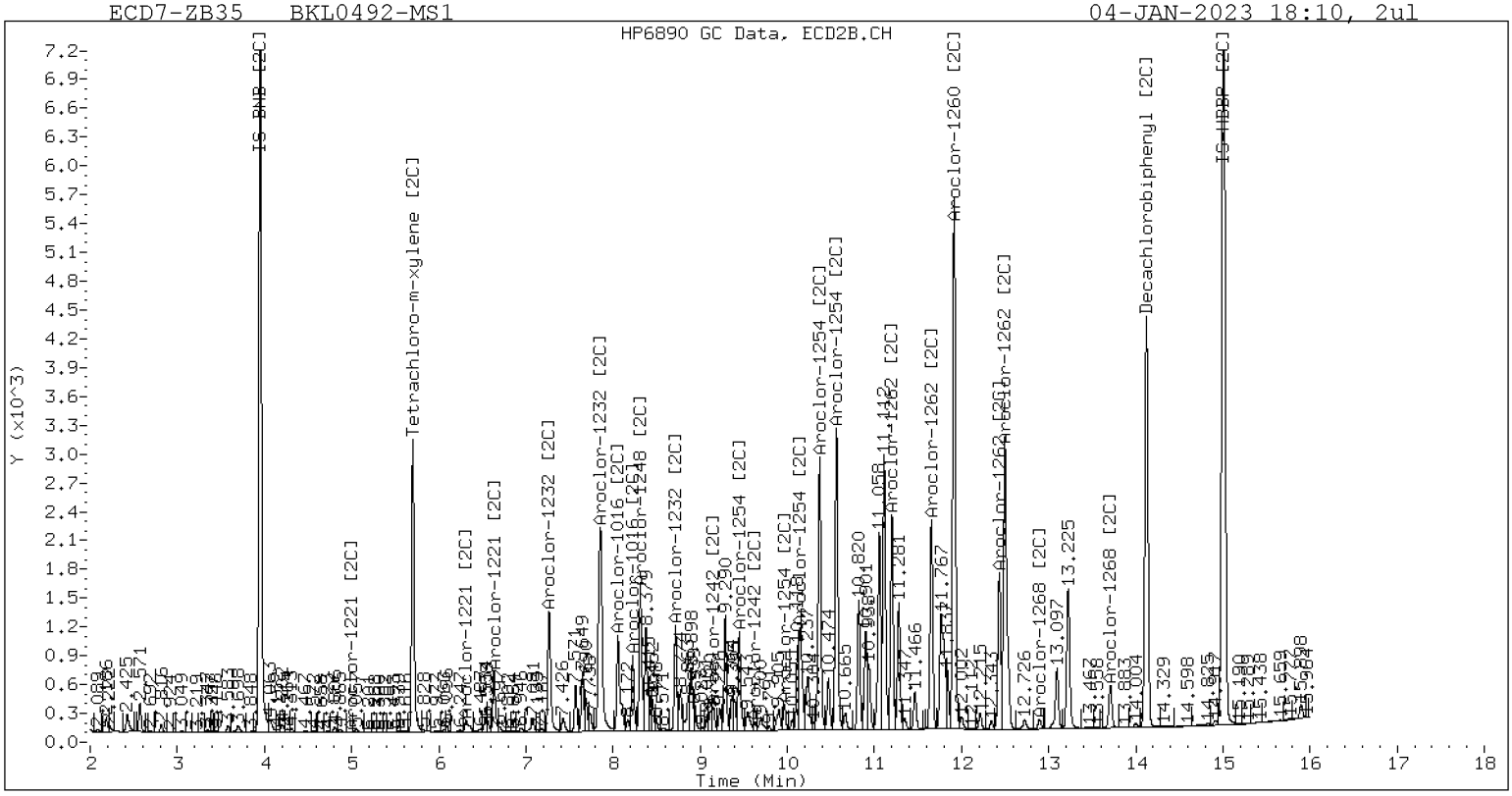


ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042327ECD7.D
Data file 2: /230104.b/230104.b/01042327ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-MSD1
Client ID:
Injection Date: 04-JAN-2023 18:31
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.826	-0.004	190804	5.703	-0.004	129794	26.8	28.6	6.7	Tetrachloro-m-xylene
13.897	-0.005	216785	14.124	-0.004	213682	36.9	33.5	9.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	503106	12.4
Hexabromobiphenyl	798898	641713	-19.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330977	32.9
Hexabromobiphenyl	362541	449202	23.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.282	-0.007	67698	403.4	1	7.266	-0.004	65397	386.5
Aroclor-1016	2	7.659	-0.018	204340	377.1	2	7.857	-0.014	138790	380.3
Aroclor-1016	3	7.797	-0.015	79878	325.3	3	8.057	-0.013	56840	362.6
Aroclor-1016	4	8.412	-0.010	62052	396.4	4	8.226	-0.015	33227	403.2
Total Col1Ave (4 peaks):					375.6	Total Col2Ave (4 peaks):				383.1 RPD = 2
Corrected Ave (3 peaks):					366.3	Corrected Ave (3 peaks):				376.5 RPD = 3
Aroclor-1221	1	4.757	-0.003	1534	36.9	1	4.988	0.001	598	21.4
Aroclor-1221	2	6.147	-0.011	8746	119.4	2	6.314	-0.008	5735	107.7
Aroclor-1221	3	6.398	-0.011	43988	260.2	3	6.635	-0.011	28174	314.5
Total Col1Ave (3 peaks):					138.8	Total Col2Ave (3 peaks):				147.9 RPD = 6
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.757	-0.005	1534	61.3	1	4.988	-0.001	598	37.2
Aroclor-1232	2	6.147	-0.012	8746	165.4	2	7.266	-0.011	65397	795.7
Aroclor-1232	3	7.659	-0.024	204340	860.6	3	7.857	-0.020	138790	863.7
Aroclor-1232	4	8.581	-0.024	66297	658.1	4	8.718	-0.016	45690	1048.7
Total Col1Ave (4 peaks):					436.4	Total Col2Ave (4 peaks):				686.3 RPD = 45*
Corrected Ave (3 peaks):					294.9	Corrected Ave (3 peaks):				565.5 RPD = 63*
Aroclor-1242	1	7.282	-0.006	67698	474.7	1	7.266	-0.004	65397	466.9
Aroclor-1242	2	7.659	-0.015	204340	451.3	2	7.857	-0.012	138790	466.7
Aroclor-1242	3	8.412	-0.010	62052	476.3	3	9.151	-0.017	11004	114.7
Aroclor-1242	4	9.000	-0.020	89609	331.3	4	9.632	0.043	5478	47.5
Total Col1Ave (4 peaks):					433.4	Total Col2Ave (4 peaks):				274.0 RPD = 45*
Corrected Ave (3 peaks):					419.1	Corrected Ave (3 peaks):				209.6 RPD = 67*
Aroclor-1248	1	8.412	-0.016	62052	286.9	1	8.313	-0.007	72477	536.0
Aroclor-1248	2	8.581	-0.023	66297	240.0	2	8.718	-0.008	45690	321.3
Aroclor-1248	3	9.000	-0.022	89609	180.4	3	9.151	-0.020	11004	63.6
Aroclor-1248	4	9.301	-0.010	74435	305.8	4	9.632	0.039	5478	27.0
Total Col1Ave (4 peaks):					253.3	Total Col2Ave (4 peaks):				237.0 RPD = 7
Corrected Ave (3 peaks):					235.8	Corrected Ave (3 peaks):				137.3 RPD = 53*
Aroclor-1254	1	9.301	-0.020	74435	168.0	1	9.451	-0.009	49201	230.6
Aroclor-1254	2	9.375	-0.027	16040	93.1	2	9.968	-0.010	12257	71.4
Aroclor-1254	3	9.666	-0.028	21255	76.0	3	10.148	0.019	61527	166.8
Aroclor-1254	4	9.801	-0.030	99378	182.2	4	10.372	-0.005	138114	361.6
Aroclor-1254	5	10.123	-0.067	190681	510.1	5	10.566	-0.009	142058	771.2
Total Col1Ave (5 peaks):					205.9	Total Col2Ave (5 peaks):				320.3 RPD = 44*
Corrected Ave (4 peaks):					129.8	Corrected Ave (4 peaks):				207.6 RPD = 46*
Aroclor-1260	1	11.046	-0.009	126733	542.6	1	11.655	-0.005	98891	417.1
Aroclor-1260	2	11.361	-0.011	113238	468.7	2	11.915	-0.008	260526	437.9
Aroclor-1260	3	11.731	-0.015	291357	459.0	3	12.435	-0.007	78529	495.6
Aroclor-1260	4	12.133	-0.017	163997	507.3	4	12.499	-0.007	170424	429.7
Aroclor-1260	5	12.246	-0.009	69359	524.1	NS	---			----
Total Col1Ave (5 peaks):					500.3	Total Col2Ave (4 peaks):				445.1 RPD = 12
Corrected Ave (4 peaks):					489.8	Corrected Ave (3 peaks):				428.2 RPD = 13
Aroclor-1262	1	10.821	-0.027	252392	1176.1	1	11.201	-0.016	97759	286.2
Aroclor-1262	2	12.246	-0.017	69359	207.9	2	11.655	-0.015	98891	334.3
Aroclor-1262	3	12.319	-0.018	81704	229.3	3	12.435	-0.016	78529	240.7
Aroclor-1262	4	12.985	-0.020	74797	261.6	4	12.499	-0.020	170424	333.4
Total Col1Ave (4 peaks):					468.7	Total Col2Ave (4 peaks):				298.6 RPD = 44*
Corrected Ave (3 peaks):					232.9	Corrected Ave (3 peaks):				286.8 RPD = 21
Aroclor-1268	1	12.246	-0.016	69359	77.3	1	12.435	-0.014	78529	92.6
Aroclor-1268	2	12.319	-0.016	81704	93.0	2	12.499	-0.018	170424	196.0
Aroclor-1268	3	12.723	0.006	39142	54.4	3	12.896	-0.014	4633	14.4
Aroclor-1268	4	13.489	-0.016	22175	10.1	4	13.710	-0.016	23760	10.2
Total Col1Ave (4 peaks):					58.7	Total Col2Ave (4 peaks):				78.3 RPD = 29

Corrected Ave (3 peaks): 47.2 Corrected Ave (3 peaks): 39.1 RPD = 19

Total PCB Area Col1 (5.930 - 13.802) = 3849877 Col1 Total PCB = 0.8 ppm*

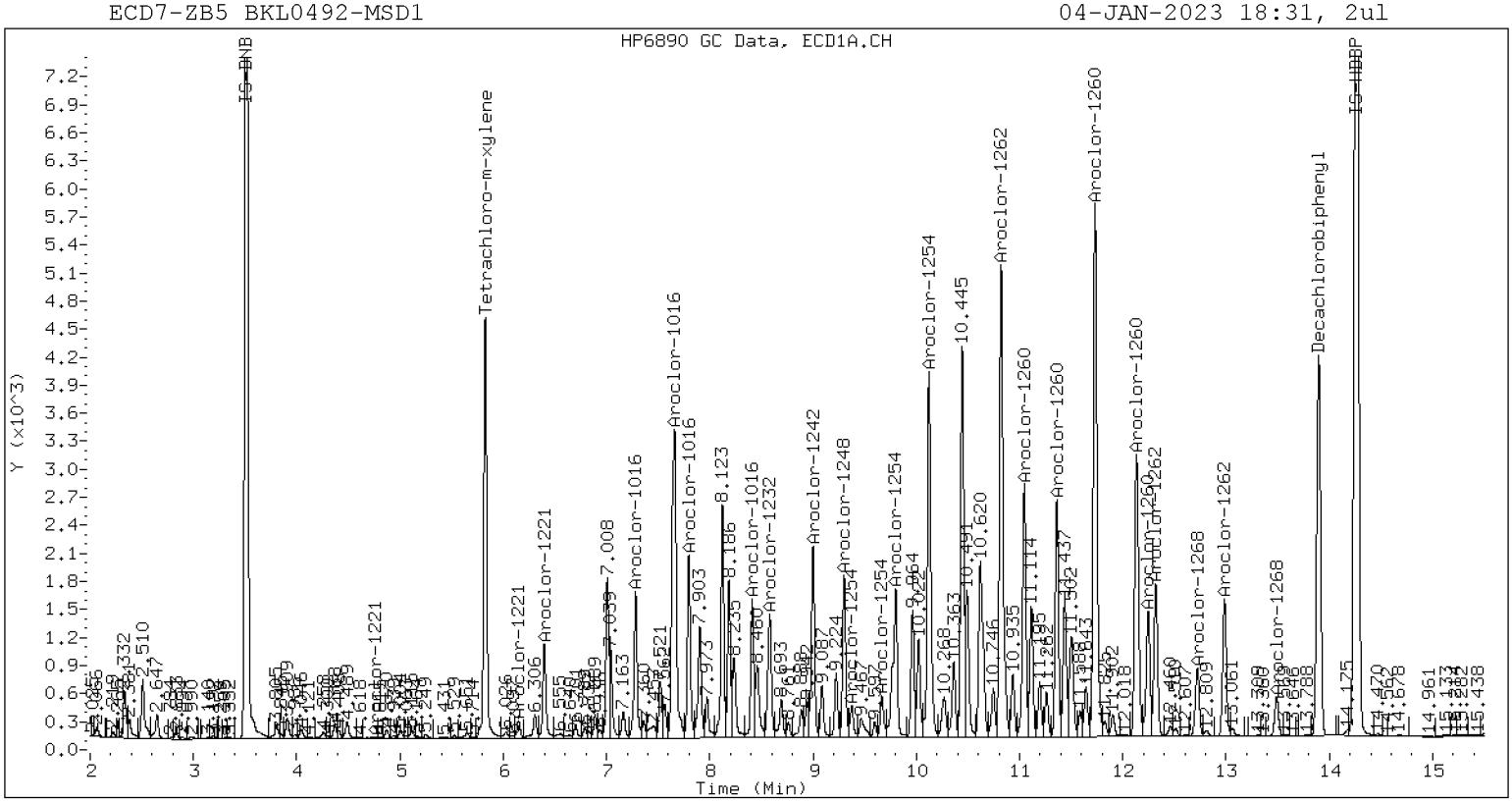
Total PCB Area Col2 (5.807 - 14.028) = 2859209 Col2 Total PCB = 0.9 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

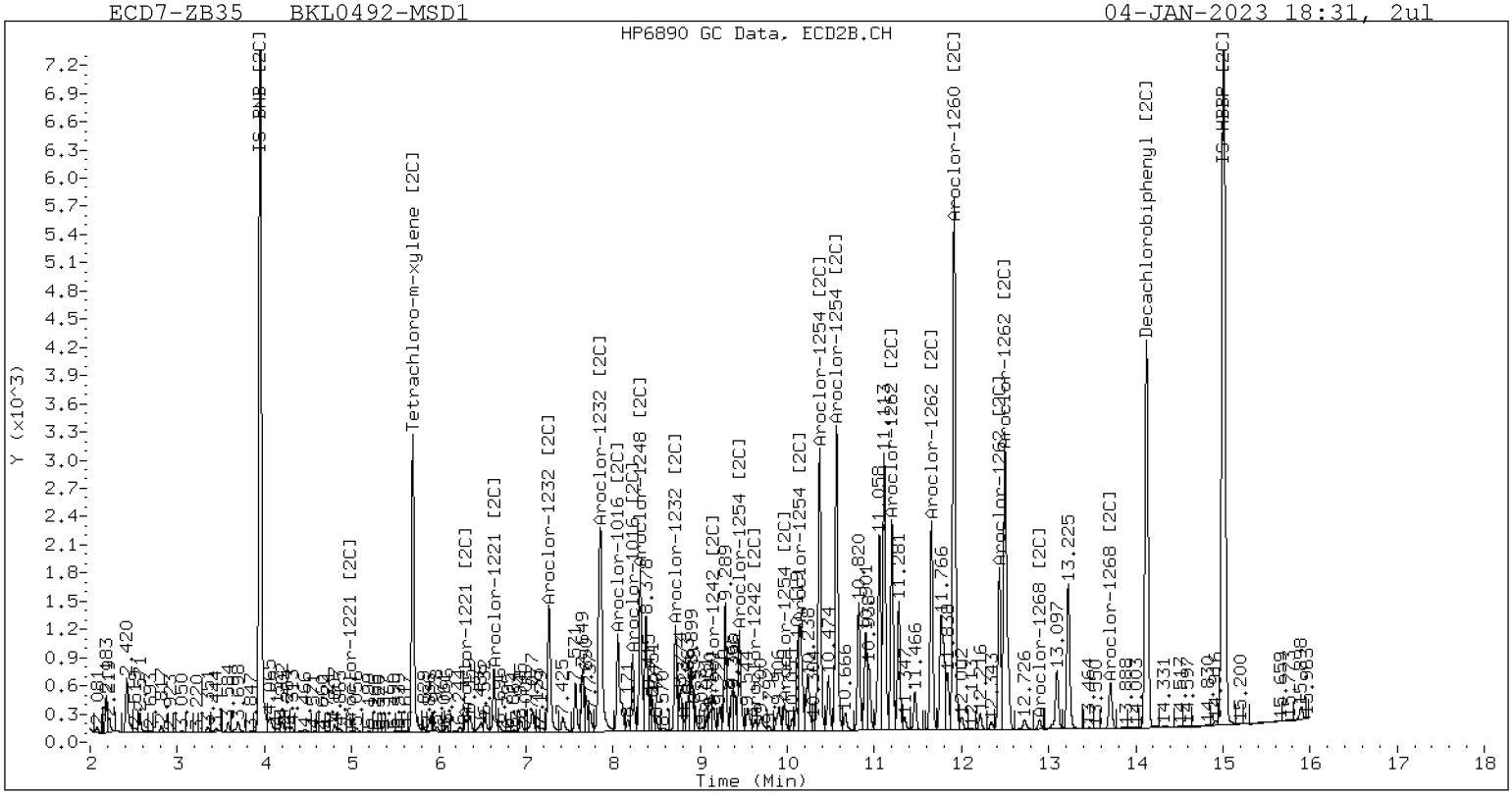
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-MSD1 04-JAN-2023 18:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0492-MSD1 04-JAN-2023 18:31, 2ul



ZB-35 Manual Integration: NO

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/03/23 20:55
Batch:	BKL0571	Laboratory ID:	BKL0571-MS1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike
Initial/Final:	13.64 g / 2.5 mL	Source Sample:	LDW22-IT809G

COMPOUND	SPIKE ADDED (ug/kg dry)	SAMPLE CONCENTRATION (ug/kg dry)	Q	MS CONCENTRATION (ug/kg dry)	Q	MS % REC. #	QC LIMITS REC.
Aroclor 1016	101	ND	U	96.8		95.8	56 - 120
Aroclor 1260	101	ND	U	89.3		88.6	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

MS / MS DUPLICATE RECOVERY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/03/23 21:16
Batch:	BKL0571	Laboratory ID:	BKL0571-MSD1
Preparation:	EPA 3546 (Microwave)	Sequence Name:	Matrix Spike Dup
Initial/Final:	13.64 g / 2.5 mL	Source Sample:	LDW22-IT809G

COMPOUND	SPIKE ADDED (ug/kg dry)	MSD CONCENTRATION (ug/kg dry)	Q	MSD % REC. #	% RPD #	QC LIMITS RPD	QC LIMITS REC.
Aroclor 1016	101	89.8		88.9	7.52	30	56 - 120
Aroclor 1260	101	87.9		87.2	1.66	30	58 - 120

* Values outside of QC limits

[2C] indicates second-column analyte, present if quantification on any batch samples used second column data.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032337ECD7.D
Data file 2: /230103.b/230103.b/01032337ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-MS1
Client ID:
Injection Date: 03-JAN-2023 20:55
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	238440	5.707	-0.001	150814	32.3	32.1	0.5	Tetrachloro-m-xylene
13.901	-0.002	390819	14.126	-0.003	322140	39.6	40.4	2.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	521320	16.5
Hexabromobiphenyl	798898	1077879	34.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	342690	37.6
Hexabromobiphenyl	362541	562313	55.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.285	-0.009	106521	612.5	1	7.270	-0.001	79748	455.1
Aroclor-1016	2	7.668	-0.016	260303	463.6	2	7.863	-0.009	169157	447.6
Aroclor-1016	3	7.804	-0.013	103233	405.8	3	8.063	-0.008	66577	410.3
Aroclor-1016	4	8.417	-0.012	73661	454.2	4	8.233	-0.008	39007	457.1
Total Col1Ave (4 peaks):					484.0	Total Col2Ave (4 peaks):				442.5 RPD = 9
Corrected Ave (3 peaks):					441.2	Corrected Ave (3 peaks):				437.7 RPD = 1
Aroclor-1221	1	4.761	0.001	1459	33.9	1	4.980	-0.007	321	11.1
Aroclor-1221	2	6.151	-0.007	9950	131.1	2	6.362	0.041	26686	484.1
Aroclor-1221	3	6.403	-0.006	48071	274.5	3	6.638	-0.007	33457	360.7
Total Col1Ave (3 peaks):					146.5	Total Col2Ave (3 peaks):				285.3 RPD = 64*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.761	0.000	1459	56.3	1	4.980	-0.009	321	19.3
Aroclor-1232	2	6.151	-0.008	9950	181.6	2	7.270	-0.007	79748	937.1
Aroclor-1232	3	7.668	-0.016	260303	1058.0	3	7.863	-0.013	169157	1016.8
Aroclor-1232	4	8.589	-0.016	94378	904.1	4	8.723	-0.011	49835	1104.8
Total Col1Ave (4 peaks):					550.0	Total Col2Ave (4 peaks):				769.5 RPD = 33
Corrected Ave (3 peaks):					380.7	Corrected Ave (3 peaks):				657.7 RPD = 53*
Aroclor-1242	1	7.285	-0.003	106521	720.9	1	7.270	-0.000	79748	549.8
Aroclor-1242	2	7.668	-0.008	260303	554.8	2	7.863	-0.009	169157	549.4
Aroclor-1242	3	8.417	-0.005	73661	545.7	3	9.163	-0.006	9258	93.2
Aroclor-1242	4	9.006	-0.015	72594	259.0	4	9.584	-0.004	4777	40.0
Total Col1Ave (4 peaks):					520.1	Total Col2Ave (4 peaks):				308.1 RPD = 51*
Corrected Ave (3 peaks):					453.2	Corrected Ave (3 peaks):				227.5 RPD = 66*
Aroclor-1248	1	8.417	-0.010	73661	328.6	1	8.317	-0.004	47242	337.4
Aroclor-1248	2	8.589	-0.015	94378	329.8	2	8.723	-0.003	49835	338.5
Aroclor-1248	3	9.006	-0.017	72594	141.0	3	9.163	-0.008	9258	51.7
Aroclor-1248	4	9.309	-0.003	74343	294.8	4	9.584	-0.007	4777	22.7
Total Col1Ave (4 peaks):					273.5	Total Col2Ave (4 peaks):				187.6 RPD = 37
Corrected Ave (3 peaks):					254.8	Corrected Ave (3 peaks):				137.3 RPD = 60*
Aroclor-1254	1	9.309	-0.006	74343	162.0	1	9.456	-0.005	42464	192.2
Aroclor-1254	2	9.450	0.057	2271	12.7	2	9.975	-0.003	9511	53.5
Aroclor-1254	3	9.675	-0.012	14962	51.6	3	10.151	0.022	98524	258.0
Aroclor-1254	4	9.811	-0.010	45354	80.3	4	10.377	-0.002	127396	322.2
Aroclor-1254	5	10.128	-0.048	210120	542.4	5	10.570	-0.006	168826	885.2
Total Col1Ave (5 peaks):					169.8	Total Col2Ave (5 peaks):				342.2 RPD = 67*
Corrected Ave (4 peaks):					76.6	Corrected Ave (4 peaks):				206.5 RPD = 92*
Aroclor-1260	1	11.051	-0.012	173967	443.4	1	11.658	-0.005	132886	447.7
Aroclor-1260	2	11.368	-0.009	182362	449.4	2	11.920	-0.006	328636	441.2
Aroclor-1260	3	11.738	-0.014	458532	430.1	3	12.440	-0.004	96288	485.5
Aroclor-1260	4	12.141	-0.017	253648	467.1	4	12.503	-0.006	226619	456.4
Aroclor-1260	5	12.250	-0.011	98665	443.9	NS	---			----
Total Col1Ave (5 peaks):					446.8	Total Col2Ave (4 peaks):				457.7 RPD = 2
Corrected Ave (4 peaks):					441.7	Corrected Ave (3 peaks):				448.5 RPD = 2
Aroclor-1262	1	10.829	-0.019	349250	968.9	1	11.205	-0.012	119692	279.9
Aroclor-1262	2	12.250	-0.012	98665	176.1	2	11.658	-0.012	132886	358.9
Aroclor-1262	3	12.325	-0.012	118419	197.9	3	12.440	-0.011	96288	235.7
Aroclor-1262	4	12.991	-0.014	114495	238.4	4	12.503	-0.016	226619	354.2
Total Col1Ave (4 peaks):					395.3	Total Col2Ave (4 peaks):				307.2 RPD = 25
Corrected Ave (3 peaks):					204.1	Corrected Ave (3 peaks):				289.9 RPD = 35
Aroclor-1268	1	12.250	-0.012	98665	65.4	1	12.440	-0.009	96288	90.7
Aroclor-1268	2	12.325	-0.010	118419	80.3	2	12.503	-0.014	226619	208.2
Aroclor-1268	3	12.728	0.011	53111	43.9	3	12.898	-0.011	4820	11.9
Aroclor-1268	4	13.493	-0.012	35761	9.7	4	13.713	-0.013	26060	9.0
Total Col1Ave (4 peaks):					49.8	Total Col2Ave (4 peaks):				80.0 RPD = 46*

Corrected Ave (3 peaks): 39.7 Corrected Ave (3 peaks): 37.2 RPD = 6

Total PCB Area Col1 (5.932 - 13.803) = 4959549 Col1 Total PCB = 1.0 ppm*

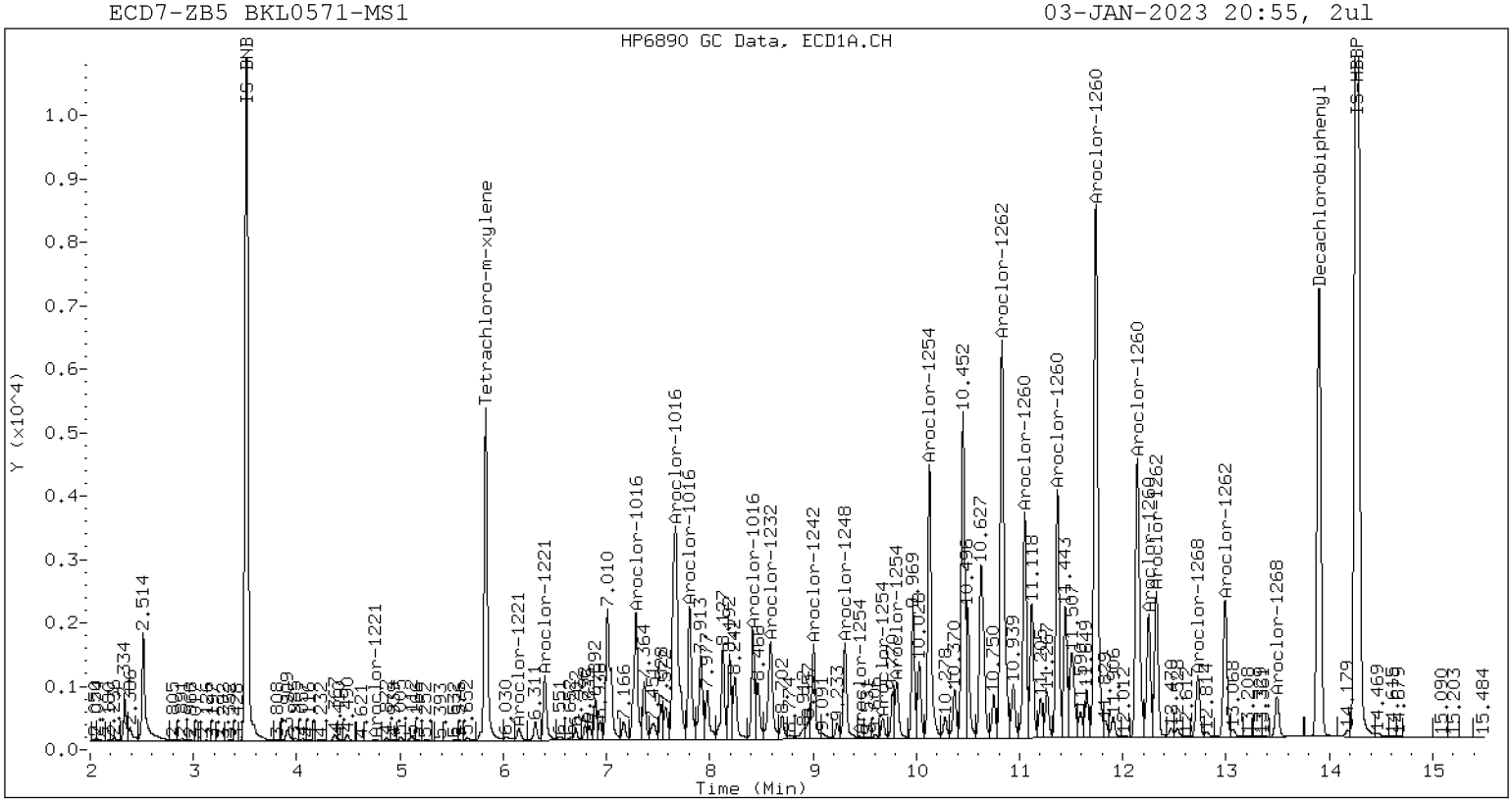
Total PCB Area Col2 (5.808 - 14.029) = 3223949 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

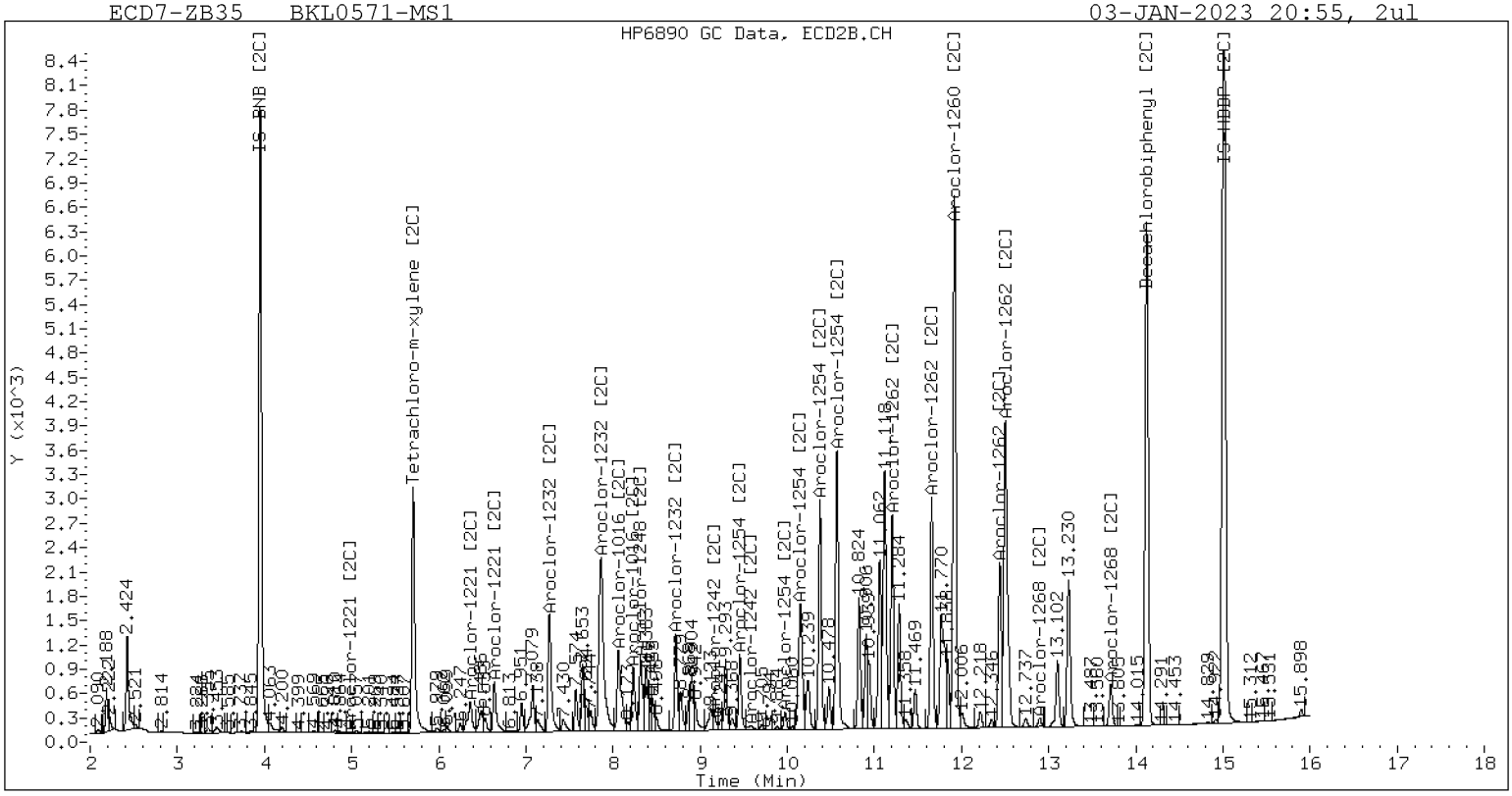
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-MS1 03-JAN-2023 20:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-MS1 03-JAN-2023 20:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032338ECD7.D
Data file 2: /230103.b/230103.b/01032338ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-MSD1
Client ID:
Injection Date: 03-JAN-2023 21:16
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	234174	5.707	-0.001	146789	32.6	30.9	5.2	Tetrachloro-m-xylene
13.901	-0.002	405714	14.126	-0.003	327569	40.0	40.5	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	506907	13.2
Hexabromobiphenyl	798898	1105936	38.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	346111	38.9
Hexabromobiphenyl	362541	569588	57.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.286	-0.009	82519	488.0	1	7.269	-0.002	72915	412.0
Aroclor-1016	2	7.667	-0.017	245966	450.6	2	7.863	-0.008	163747	429.0
Aroclor-1016	3	7.805	-0.013	98831	399.5	3	8.063	-0.008	65423	399.2
Aroclor-1016	4	8.418	-0.012	72178	457.7	4	8.233	-0.008	38881	451.1
Total Col1Ave (4 peaks):					448.9	Total Col2Ave (4 peaks):				422.8 RPD = 6
Corrected Ave (3 peaks):					435.9	Corrected Ave (3 peaks):				413.4 RPD = 5
Aroclor-1221	1	4.760	-0.000	1517	36.2	1	4.977	-0.010	261	8.9
Aroclor-1221	2	6.152	-0.007	8025	108.7	2	6.318	-0.004	5379	96.6
Aroclor-1221	3	6.402	-0.007	45030	264.4	3	6.638	-0.007	31820	339.6
Total Col1Ave (3 peaks):					136.4	Total Col2Ave (3 peaks):				148.4 RPD = 8
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.760	-0.001	1517	60.2	1	4.977	-0.012	261	15.5
Aroclor-1232	2	6.152	-0.008	8025	150.6	2	7.269	-0.008	72915	848.3
Aroclor-1232	3	7.667	-0.016	245966	1028.2	3	7.863	-0.013	163747	974.5
Aroclor-1232	4	8.590	-0.015	92554	911.9	4	8.723	-0.011	49342	1083.0
Total Col1Ave (4 peaks):					537.7	Total Col2Ave (4 peaks):				730.3 RPD = 30
Corrected Ave (3 peaks):					374.2	Corrected Ave (3 peaks):				612.8 RPD = 48*
Aroclor-1242	1	7.286	-0.003	82519	574.3	1	7.269	-0.001	72915	497.8
Aroclor-1242	2	7.667	-0.009	245966	539.2	2	7.863	-0.008	163747	526.6
Aroclor-1242	3	8.418	-0.005	72178	549.9	3	9.161	-0.008	9367	93.4
Aroclor-1242	4	9.006	-0.015	71692	263.0	4	9.585	-0.003	4946	41.0
Total Col1Ave (4 peaks):					481.6	Total Col2Ave (4 peaks):				289.7 RPD = 50*
Corrected Ave (3 peaks):					450.7	Corrected Ave (3 peaks):				210.7 RPD = 73*
Aroclor-1248	1	8.418	-0.010	72178	331.2	1	8.318	-0.003	47100	333.1
Aroclor-1248	2	8.590	-0.014	92554	332.6	2	8.723	-0.002	49342	331.8
Aroclor-1248	3	9.006	-0.017	71692	143.2	3	9.161	-0.009	9367	51.8
Aroclor-1248	4	9.309	-0.002	73257	298.7	4	9.585	-0.006	4946	23.3
Total Col1Ave (4 peaks):					276.4	Total Col2Ave (4 peaks):				185.0 RPD = 40
Corrected Ave (3 peaks):					257.7	Corrected Ave (3 peaks):				135.6 RPD = 62*
Aroclor-1254	1	9.309	-0.006	73257	164.1	1	9.456	-0.005	42672	191.2
Aroclor-1254	2	9.447	0.054	2046	11.8	2	9.975	-0.003	10026	55.9
Aroclor-1254	3	9.675	-0.011	14932	53.0	3	10.153	0.024	98433	255.2
Aroclor-1254	4	9.812	-0.009	44631	81.2	4	10.377	-0.002	127931	320.3
Aroclor-1254	5	10.128	-0.047	210749	559.5	5	10.571	-0.005	168909	876.9
Total Col1Ave (5 peaks):					173.9	Total Col2Ave (5 peaks):				339.9 RPD = 65*
Corrected Ave (4 peaks):					77.5	Corrected Ave (4 peaks):				205.7 RPD = 90*
Aroclor-1260	1	11.052	-0.011	175597	436.2	1	11.659	-0.003	133305	443.4
Aroclor-1260	2	11.367	-0.010	183996	441.9	2	11.921	-0.005	329851	437.2
Aroclor-1260	3	11.739	-0.013	461656	422.0	3	12.440	-0.004	96658	481.1
Aroclor-1260	4	12.140	-0.018	256229	459.9	4	12.504	-0.005	228872	455.1
Aroclor-1260	5	12.251	-0.010	99680	437.1	NS	---			----
Total Col1Ave (5 peaks):					439.4	Total Col2Ave (4 peaks):				454.2 RPD = 3
Corrected Ave (4 peaks):					434.3	Corrected Ave (3 peaks):				445.2 RPD = 2
Aroclor-1262	1	10.830	-0.018	351953	951.6	1	11.205	-0.012	120503	278.2
Aroclor-1262	2	12.251	-0.011	99680	173.4	2	11.659	-0.011	133305	355.4
Aroclor-1262	3	12.324	-0.012	119791	195.1	3	12.440	-0.011	96658	233.6
Aroclor-1262	4	12.991	-0.014	115695	234.8	4	12.504	-0.015	228872	353.1
Total Col1Ave (4 peaks):					388.7	Total Col2Ave (4 peaks):				305.1 RPD = 24
Corrected Ave (3 peaks):					201.1	Corrected Ave (3 peaks):				288.3 RPD = 36
Aroclor-1268	1	12.251	-0.011	99680	64.4	1	12.440	-0.009	96658	89.9
Aroclor-1268	2	12.324	-0.011	119791	79.1	2	12.504	-0.013	228872	207.6
Aroclor-1268	3	12.728	0.011	53726	43.3	3	12.899	-0.011	4693	11.5
Aroclor-1268	4	13.494	-0.011	38695	10.2	4	13.713	-0.014	26625	9.0
Total Col1Ave (4 peaks):					49.3	Total Col2Ave (4 peaks):				79.5 RPD = 47*

Corrected Ave (3 peaks): 39.3 Corrected Ave (3 peaks): 36.8 RPD = 7

Total PCB Area Col1 (5.932 - 13.803) = 4795397 Col1 Total PCB = 1.0 ppm*

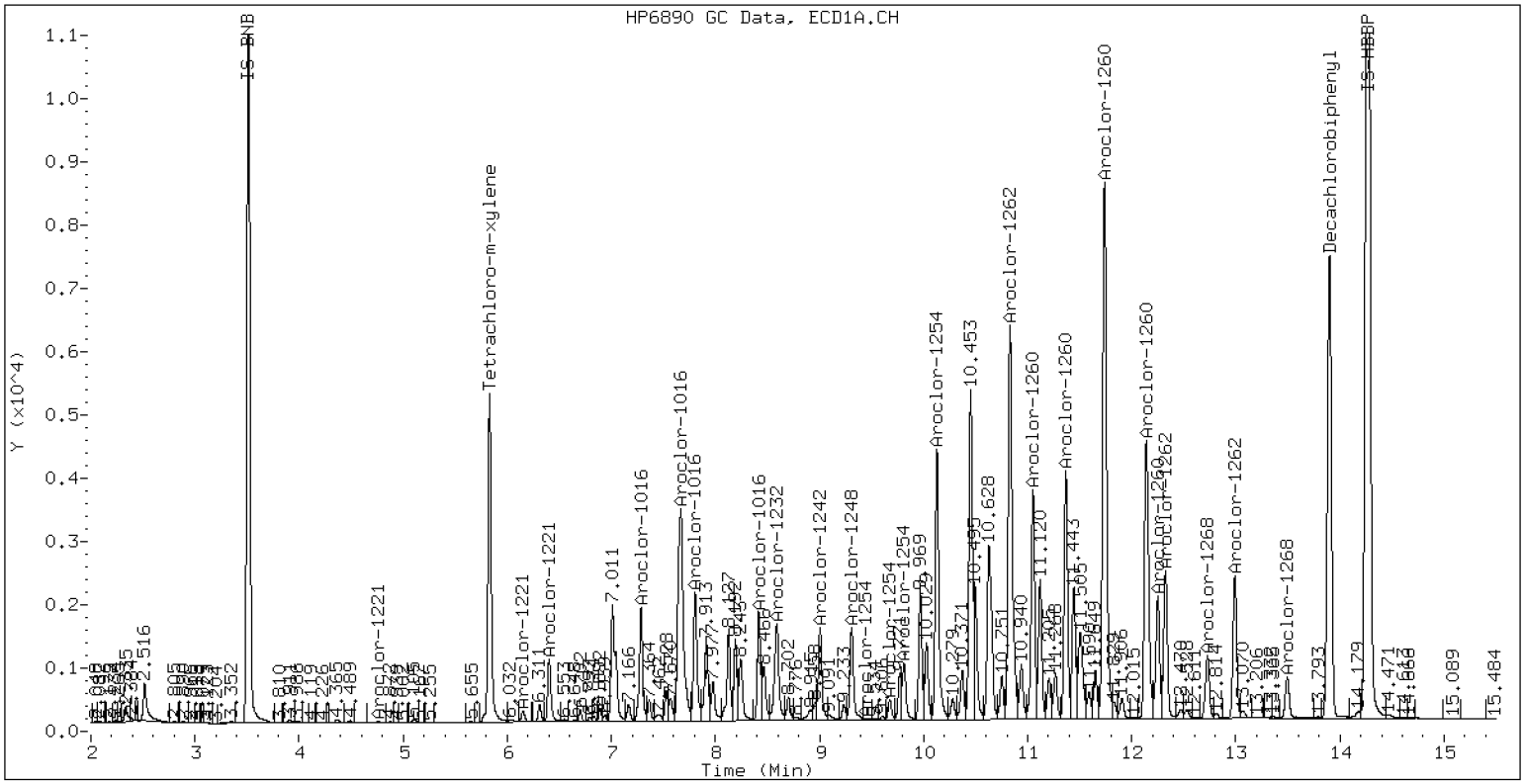
Total PCB Area Col2 (5.808 - 14.029) = 3152228 Col2 Total PCB = 1.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

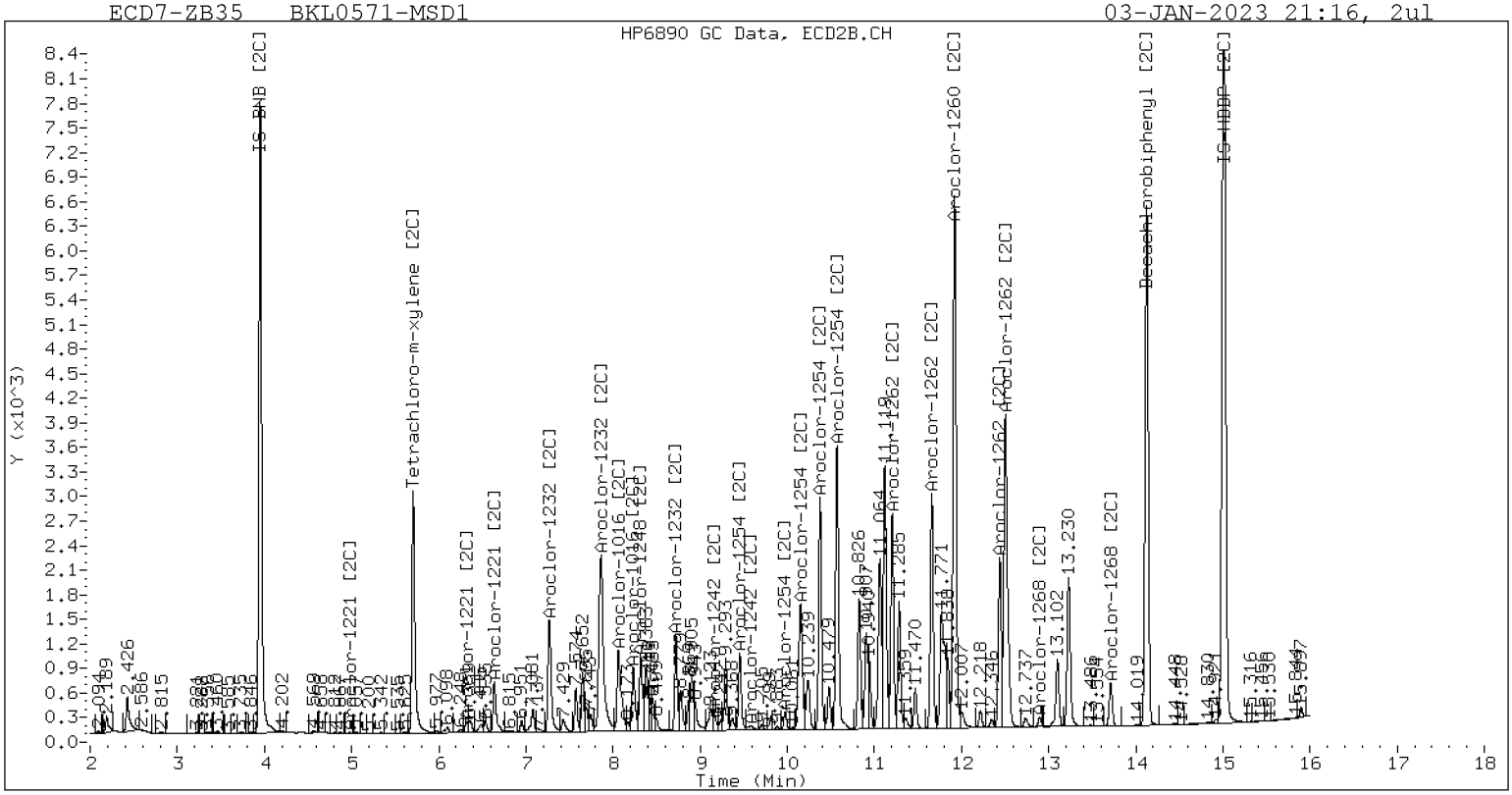
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-MSD1 03-JAN-2023 21:16, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-MSD1 03-JAN-2023 21:16, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0490-SRM1
Batch: BKL0490
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/05/2023 6:50
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	117	2.9	20.0		108	38 - 167
Aroclor 1260 [2C]	108.00	119	2.9	20.0		110	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042362ECD7.D
Data file 2: /230104.b/230104.b/01042362ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0490-SRM1
Client ID:
Injection Date: 05-JAN-2023 06:50
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.001	261419	5.705	-0.002	168468	33.1	34.2	3.1	Tetrachloro-m-xylene
13.898	-0.004	324237	14.123	-0.005	293237	43.2	39.4	9.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	556863	24.4
Hexabromobiphenyl	798898	819389	2.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	359516	44.3
Hexabromobiphenyl	362541	523583	44.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.254	-0.035	15685	84.4	1	7.275	0.005	9313	50.7
Aroclor-1016	2	7.663	-0.014	10351	17.3	2	7.856	-0.015	8664	21.9
Aroclor-1016	3	7.811	-0.002	6550	24.1	3	8.059	-0.010	1703	10.0
Aroclor-1016	4	8.414	-0.007	10196	58.9	4	8.227	-0.013	1843	20.6
Total Col1Ave (4 peaks):					46.2	Total Col2Ave (4 peaks):				25.8 RPD = 57*
Corrected Ave (3 peaks):					33.4	Corrected Ave (3 peaks):				17.5 RPD = 63*
Aroclor-1221	1	4.754	-0.006	268	5.8	1	4.966	-0.021	702	23.1
Aroclor-1221	2	6.139	-0.019	3842	47.4	2	6.360	0.039	15024	259.8
Aroclor-1221	3	6.409	0.001	2231	11.9	3	6.651	0.005	2668	27.4
Total Col1Ave (3 peaks):					21.7	Total Col2Ave (3 peaks):				103.5 RPD = 131*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.754	-0.007	268	9.7	1	4.966	-0.023	702	40.2
Aroclor-1232	2	6.139	-0.020	3842	65.7	2	7.275	-0.002	9313	104.3
Aroclor-1232	3	7.663	-0.020	10351	39.4	3	7.856	-0.021	8664	49.6
Aroclor-1232	4	8.582	-0.023	7722	69.3	4	8.719	-0.015	5185	109.6
Total Col1Ave (4 peaks):					46.0	Total Col2Ave (4 peaks):				75.9 RPD = 49*
Corrected Ave (3 peaks):					38.2	Corrected Ave (3 peaks):				64.7 RPD = 51*
Aroclor-1242	1	7.254	-0.034	15685	99.4	1	7.275	0.005	9313	61.2
Aroclor-1242	2	7.663	-0.011	10351	20.7	2	7.856	-0.013	8664	26.8
Aroclor-1242	3	8.414	-0.007	10196	70.7	3	9.154	-0.013	7873	75.6
Aroclor-1242	4	9.001	-0.019	20864	69.7	4	9.546	-0.042	12087	96.5
Total Col1Ave (4 peaks):					65.1	Total Col2Ave (4 peaks):				65.0 RPD = 0
Corrected Ave (3 peaks):					53.7	Corrected Ave (3 peaks):				54.5 RPD = 2
Aroclor-1248	1	8.414	-0.013	10196	42.6	1	8.313	-0.007	7532	51.3
Aroclor-1248	2	8.582	-0.022	7722	25.3	2	8.719	-0.006	5185	33.6
Aroclor-1248	3	9.001	-0.021	20864	37.9	3	9.154	-0.017	7873	41.9
Aroclor-1248	4	9.302	-0.009	28409	105.4	4	9.546	-0.046	12087	54.8
Total Col1Ave (4 peaks):					52.8	Total Col2Ave (4 peaks):				45.4 RPD = 15
Corrected Ave (3 peaks):					35.3	Corrected Ave (3 peaks):				42.2 RPD = 18
Aroclor-1254	1	9.302	-0.019	28409	57.9	1	9.451	-0.009	18772	81.0
Aroclor-1254	2	9.418	0.016	2223	11.7	2	9.968	-0.009	8335	44.7
Aroclor-1254	3	9.671	-0.023	16952	54.7	3	10.119	-0.010	36401	90.9
Aroclor-1254	4	9.803	-0.028	39886	66.1	4	10.371	-0.007	47511	114.5
Aroclor-1254	5	10.125	-0.064	64399	155.6	5	10.565	-0.009	46681	233.3
Total Col1Ave (5 peaks):					69.2	Total Col2Ave (5 peaks):				112.9 RPD = 48*
Corrected Ave (4 peaks):					47.6	Corrected Ave (4 peaks):				82.8 RPD = 54*
Aroclor-1260	1	11.046	-0.010	37207	124.7	1	11.654	-0.007	32353	117.1
Aroclor-1260	2	11.359	-0.013	31852	103.3	2	11.914	-0.009	76733	110.6
Aroclor-1260	3	11.729	-0.016	84408	104.1	3	12.434	-0.009	25724	139.3
Aroclor-1260	4	12.133	-0.017	53522	129.7	4	12.498	-0.008	50931	110.2
Aroclor-1260	5	12.246	-0.009	20815	123.2	NS	---			----
Total Col1Ave (5 peaks):					117.0	Total Col2Ave (4 peaks):				119.3 RPD = 2
Corrected Ave (4 peaks):					113.8	Corrected Ave (3 peaks):				112.6 RPD = 1
Aroclor-1262	1	10.822	-0.026	86525	315.8	1	11.200	-0.017	29475	74.0
Aroclor-1262	2	12.246	-0.017	20815	48.9	2	11.654	-0.016	32353	93.8
Aroclor-1262	3	12.318	-0.018	25537	56.1	3	12.434	-0.018	25724	67.6
Aroclor-1262	4	12.985	-0.020	25892	70.9	4	12.498	-0.021	50931	85.5
Total Col1Ave (4 peaks):					122.9	Total Col2Ave (4 peaks):				80.2 RPD = 42*
Corrected Ave (3 peaks):					58.6	Corrected Ave (3 peaks):				75.7 RPD = 25
Aroclor-1268	1	12.246	-0.017	20815	18.2	1	12.434	-0.016	25724	26.0
Aroclor-1268	2	12.318	-0.017	25537	22.8	2	12.498	-0.019	50931	50.3
Aroclor-1268	3	12.723	0.007	13088	14.2	3	12.897	-0.013	972	2.6
Aroclor-1268	4	13.490	-0.015	6493	2.3	4	13.709	-0.017	7036	2.6
Total Col1Ave (4 peaks):					14.4	Total Col2Ave (4 peaks):				20.4 RPD = 35

Corrected Ave (3 peaks): 11.6 Corrected Ave (3 peaks): 10.4 RPD = 11

Total PCB Area Col1 (5.930 - 13.802) = 1202331 Col1 Total PCB = 0.2 ppm*

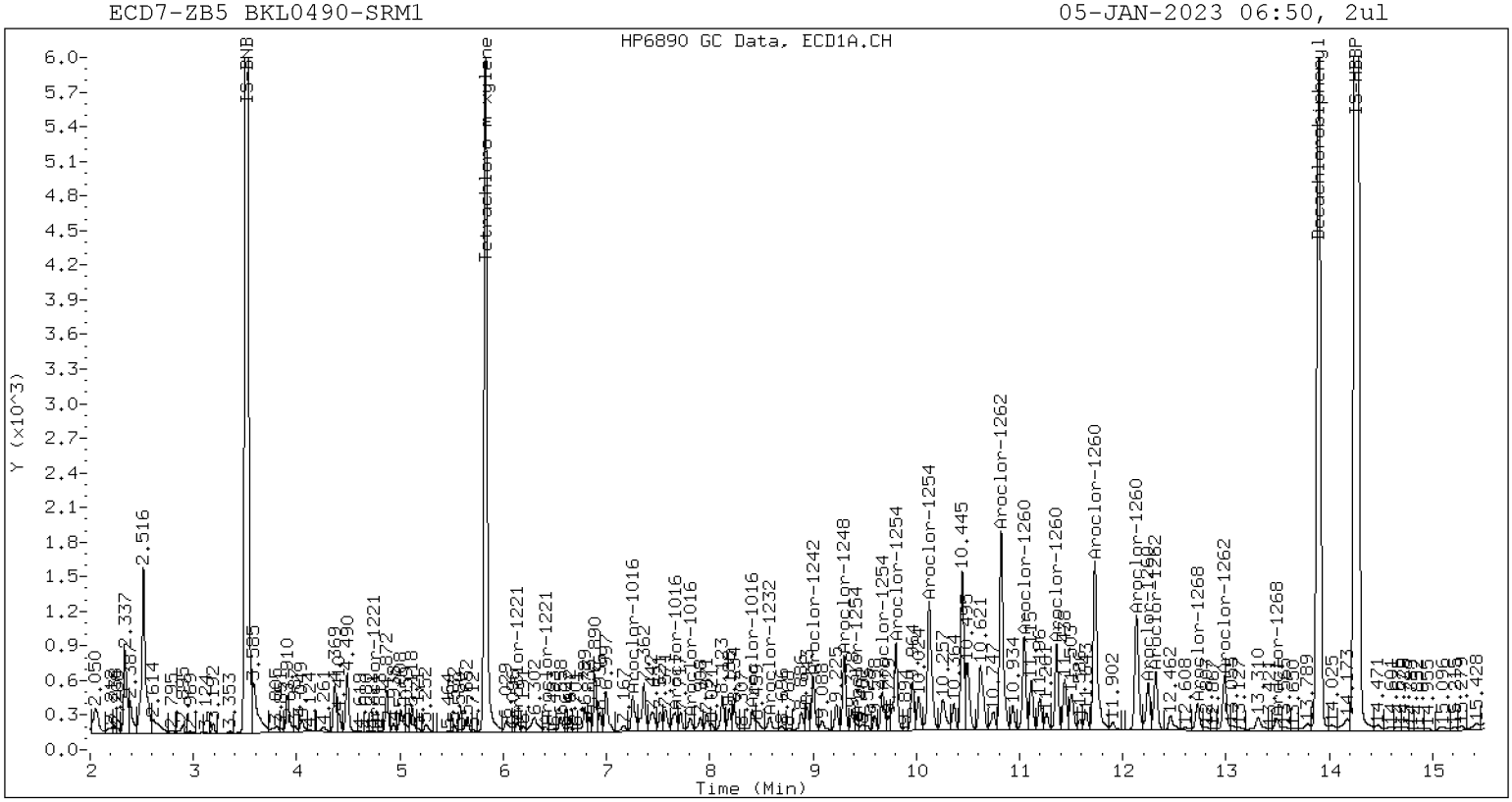
Total PCB Area Col2 (5.807 - 14.028) = 879022 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

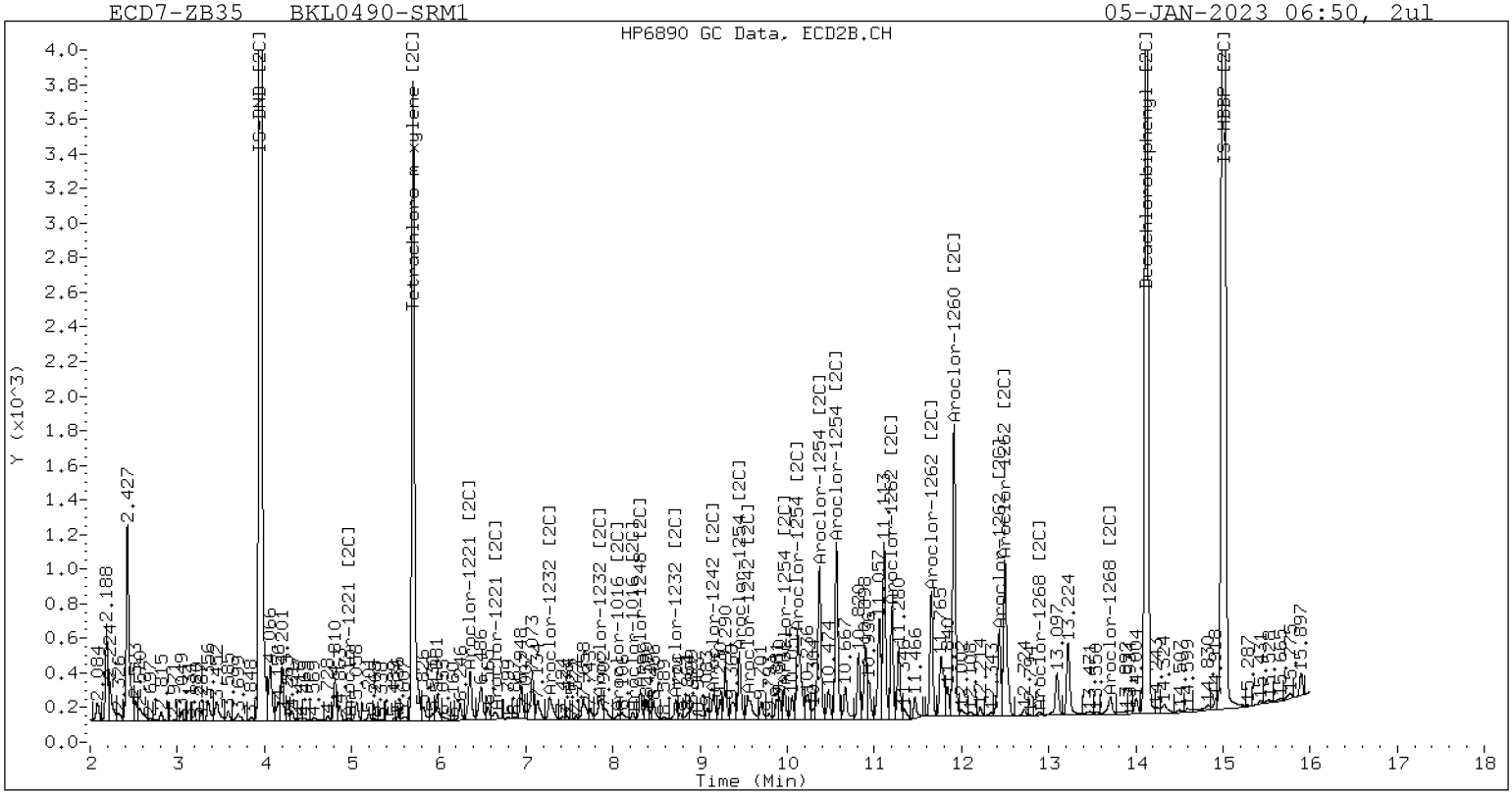
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0490-SRM1 05-JAN-2023 06:50, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0490-SRM1 05-JAN-2023 06:50, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0492-SRM1
Batch: BKL0492
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/04/2023 17:49
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	112	2.9	20.0		104	38 - 167
Aroclor 1260 [2C]	108.00	107	2.9	20.0		99.4	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042325ECD7.D
Data file 2: /230104.b/230104.b/01042325ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0492-SRM1
Client ID:
Injection Date: 04-JAN-2023 17:49
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.829	-0.001	219580	5.705	-0.002	142194	29.3	29.8	1.7	Tetrachloro-m-xylene
13.897	-0.004	286269	14.124	-0.004	255578	37.4	34.1	9.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	529636	18.3
Hexabromobiphenyl	798898	835999	4.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	348662	40.0
Hexabromobiphenyl	362541	527646	45.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.255	-0.034	6744	38.2	1	7.273	0.003	4487	25.2
Aroclor-1016	2	7.666	-0.011	7233	12.7	2	7.861	-0.010	9693	25.2
Aroclor-1016	3	7.806	-0.007	3111	12.0	3	8.060	-0.009	2300	13.9
Aroclor-1016	4	8.415	-0.006	6062	36.8	4	8.229	-0.011	1681	19.4
	Total Col1Ave (4 peaks):				24.9	Total Col2Ave (4 peaks):				20.9 RPD = 17
	Corrected Ave (3 peaks):				20.5	Corrected Ave (3 peaks):				19.5 RPD = 5
Aroclor-1221	1	4.722	-0.038	108	2.5	1	4.965	-0.022	546	18.6
Aroclor-1221	2	6.179	0.020	539	7.0	2	6.355	0.034	4451	79.4
Aroclor-1221	3	6.409	-0.000	1495	8.4	3	6.654	0.009	2181	23.1
	Total Col1Ave (3 peaks):				6.0	Total Col2Ave (3 peaks):				40.3 RPD = 149*
	Corrected Ave: < 3 Peaks					Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.722	-0.039	108	4.1	1	4.965	-0.024	546	32.2
Aroclor-1232	2	6.179	0.019	539	9.7	2	7.273	-0.004	4487	51.8
Aroclor-1232	3	7.666	-0.018	7233	28.9	3	7.861	-0.015	9693	57.3
Aroclor-1232	4	8.585	-0.021	4765	44.9	4	8.721	-0.013	5114	111.4
	Total Col1Ave (4 peaks):				21.9	Total Col2Ave (4 peaks):				63.2 RPD = 97*
	Corrected Ave (3 peaks):				14.2	Corrected Ave (3 peaks):				47.1 RPD = 107*
Aroclor-1242	1	7.255	-0.033	6744	44.9	1	7.273	0.003	4487	30.4
Aroclor-1242	2	7.666	-0.009	7233	15.2	2	7.861	-0.007	9693	30.9
Aroclor-1242	3	8.415	-0.006	6062	44.2	3	9.156	-0.011	7313	72.4
Aroclor-1242	4	9.002	-0.018	18217	64.0	4	9.547	-0.041	11651	95.9
	Total Col1Ave (4 peaks):				42.1	Total Col2Ave (4 peaks):				57.4 RPD = 31
	Corrected Ave (3 peaks):				34.8	Corrected Ave (3 peaks):				44.6 RPD = 25
Aroclor-1248	1	8.415	-0.013	6062	26.6	1	8.315	-0.005	6474	45.5
Aroclor-1248	2	8.585	-0.019	4765	16.4	2	8.721	-0.005	5114	34.1
Aroclor-1248	3	9.002	-0.020	18217	34.8	3	9.156	-0.015	7313	40.1
Aroclor-1248	4	9.303	-0.008	26095	101.8	4	9.547	-0.045	11651	54.5
	Total Col1Ave (4 peaks):				44.9	Total Col2Ave (4 peaks):				43.5 RPD = 3
	Corrected Ave (3 peaks):				25.9	Corrected Ave (3 peaks):				39.9 RPD = 42*
Aroclor-1254	1	9.303	-0.018	26095	56.0	1	9.452	-0.008	17625	78.4
Aroclor-1254	2	9.378	-0.024	9502	52.4	2	9.970	-0.007	8767	48.5
Aroclor-1254	3	9.674	-0.021	15715	53.4	3	10.121	-0.008	34360	88.4
Aroclor-1254	4	9.804	-0.026	36173	63.0	4	10.372	-0.005	43444	108.0
Aroclor-1254	5	10.125	-0.064	59584	151.4	5	10.567	-0.008	43831	225.9
	Total Col1Ave (5 peaks):				75.2	Total Col2Ave (5 peaks):				109.8 RPD = 37
	Corrected Ave (4 peaks):				56.2	Corrected Ave (4 peaks):				80.8 RPD = 36
Aroclor-1260	1	11.048	-0.008	35621	117.1	1	11.655	-0.005	29113	104.5
Aroclor-1260	2	11.360	-0.012	29829	94.8	2	11.916	-0.008	69049	98.8
Aroclor-1260	3	11.732	-0.014	96370	116.5	3	12.434	-0.008	23567	126.6
Aroclor-1260	4	12.134	-0.016	50449	119.8	4	12.500	-0.007	46278	99.3
Aroclor-1260	5	12.247	-0.008	19686	114.2	NS	---			----
	Total Col1Ave (5 peaks):				112.5	Total Col2Ave (4 peaks):				107.3 RPD = 5
	Corrected Ave (4 peaks):				110.6	Corrected Ave (3 peaks):				100.9 RPD = 9
Aroclor-1262	1	10.824	-0.024	82042	293.5	1	11.202	-0.015	26981	67.3
Aroclor-1262	2	12.247	-0.016	19686	45.3	2	11.655	-0.015	29113	83.8
Aroclor-1262	3	12.320	-0.016	23780	51.2	3	12.434	-0.017	23567	61.5
Aroclor-1262	4	12.986	-0.019	22116	59.4	4	12.500	-0.020	46278	77.1
	Total Col1Ave (4 peaks):				112.3	Total Col2Ave (4 peaks):				72.4 RPD = 43*
	Corrected Ave (3 peaks):				52.0	Corrected Ave (3 peaks):				68.6 RPD = 28
Aroclor-1268	1	12.247	-0.016	19686	16.8	1	12.434	-0.015	23567	23.7
Aroclor-1268	2	12.320	-0.015	23780	20.8	2	12.500	-0.018	46278	45.3
Aroclor-1268	3	12.724	0.008	11186	11.9	3	12.898	-0.011	828	2.2
Aroclor-1268	4	13.490	-0.015	4358	1.5	4	13.710	-0.017	5571	2.0
	Total Col1Ave (4 peaks):				12.8	Total Col2Ave (4 peaks):				18.3 RPD = 36

Corrected Ave (3 peaks): 10.1 Corrected Ave (3 peaks): 9.3 RPD = 8

Total PCB Area Col1 (5.930 - 13.802) = 991029 Col1 Total PCB = 0.2 ppm*

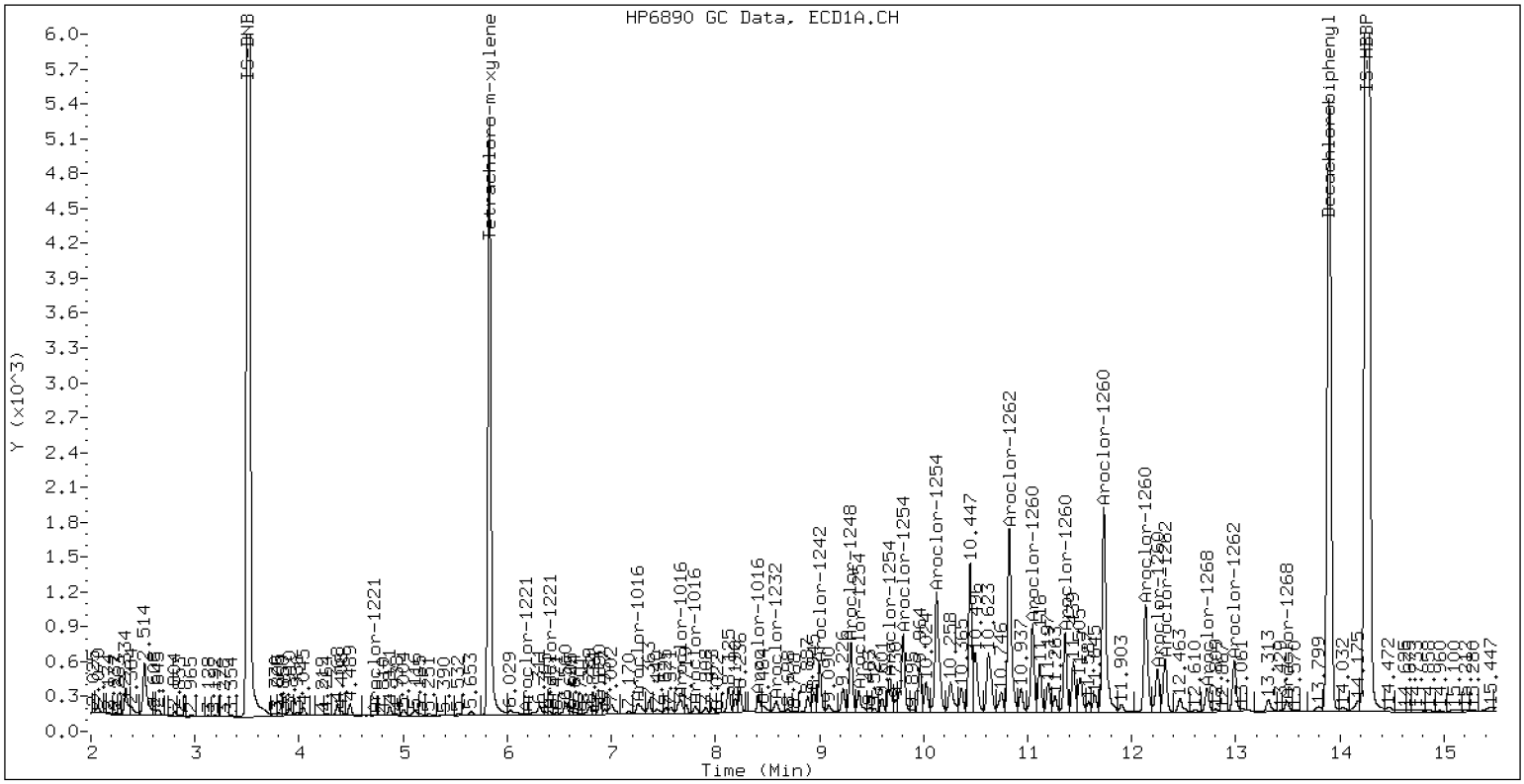
Total PCB Area Col2 (5.807 - 14.028) = 755571 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

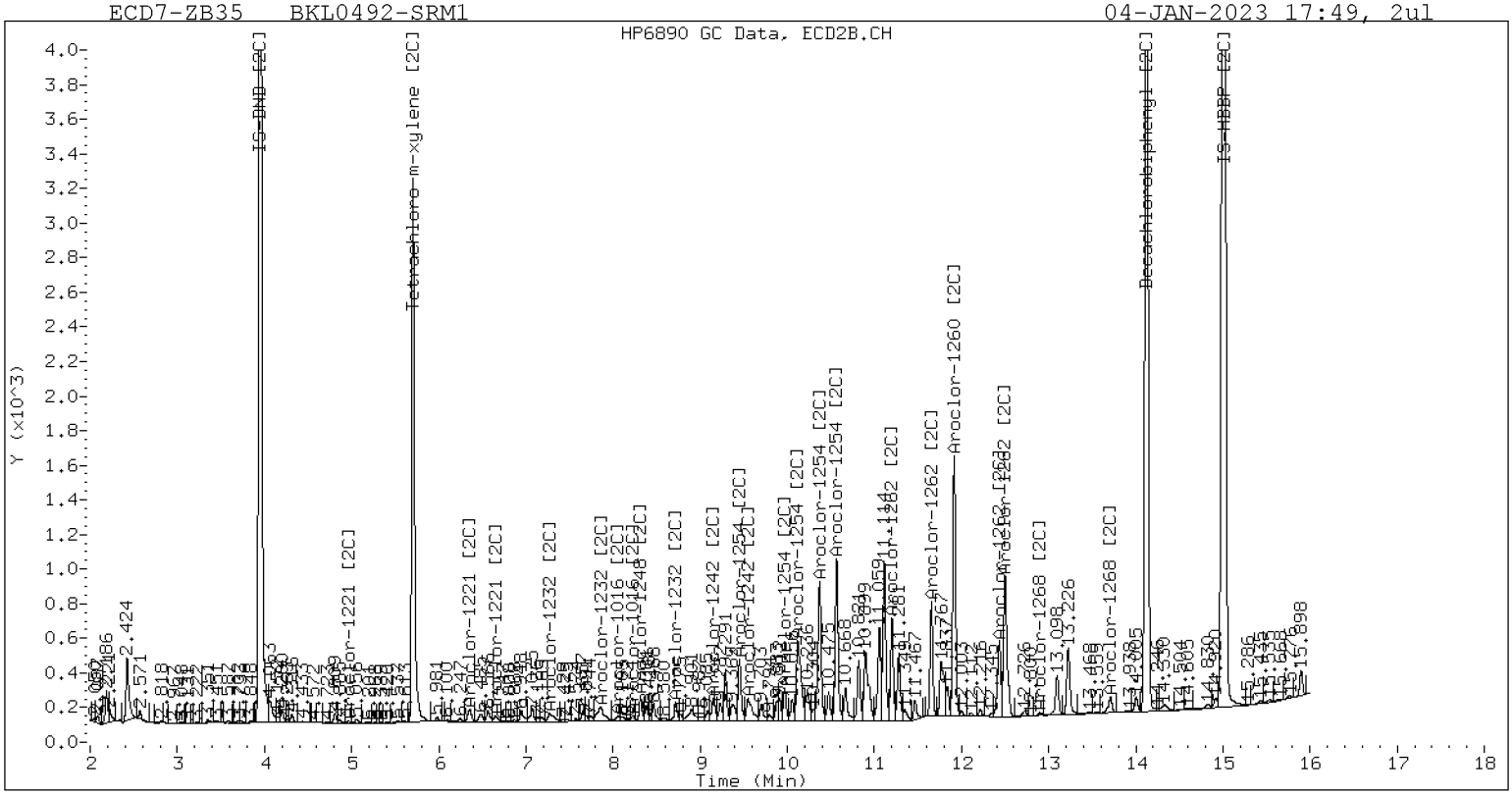
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0492-SRM1 04-JAN-2023 17:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0492-SRM1 04-JAN-2023 17:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0571-SRM1
Batch: BKL0571
Initial/Final: 2.5 g / 2.5 mL
Preparation: EPA 3546 (Microwave)
Analyzed: 01/03/2023 20:34
Standard ID: K010815
Expires: 05/17/2023
Standard Lot#: PSRM0164
Description: Puget Sound reference-SRM

ANALYTE	TRUE (ug/kg wet)	FOUND (ug/kg wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Aroclor 1260	108.00	123	2.9	20.0		114	38 - 167
Aroclor 1260 [2C]	108.00	123	2.9	20.0		114	38 - 167

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032336ECD7.D
Data file 2: /230103.b/230103.b/01032336ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: BKL0571-SRM1
Client ID:
Injection Date: 03-JAN-2023 20:34
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	220656	5.707	-0.001	141801	30.8	31.3	1.6	Tetrachloro-m-xylene
13.897	-0.006	280048	14.125	-0.004	248686	39.1	36.6	6.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	506257	13.1
Hexabromobiphenyl	798898	780557	-2.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330833	32.8
Hexabromobiphenyl	362541	478196	31.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.255	-0.039	7708	45.6	1	7.275	0.004	5802	34.3
Aroclor-1016	2	7.665	-0.019	6694	12.3	2	7.861	-0.011	8290	22.7
Aroclor-1016	3	7.808	-0.009	2894	11.7	3	8.061	-0.009	2506	16.0
Aroclor-1016	4	8.416	-0.013	6135	39.0	4	8.230	-0.011	1819	22.1
Total Col1Ave (4 peaks):					27.1	Total Col2Ave (4 peaks):				23.8 RPD = 13
Corrected Ave (3 peaks):					21.0	Corrected Ave (3 peaks):				20.3 RPD = 3
Aroclor-1221	1	4.720	-0.040	159	3.8	1	4.967	-0.020	616	22.1
Aroclor-1221	2	6.136	-0.022	703	9.5	2	6.360	0.038	7142	134.2
Aroclor-1221	3	6.415	0.006	1701	10.0	3	6.656	0.011	3291	36.8
Total Col1Ave (3 peaks):					7.8	Total Col2Ave (3 peaks):				64.3 RPD = 157*
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1232	1	4.720	-0.041	159	6.3	1	4.967	-0.022	616	38.3
Aroclor-1232	2	6.182	0.023	456	8.6	2	7.275	-0.002	5802	70.6
Aroclor-1232	3	7.665	-0.018	6694	28.0	3	7.861	-0.016	8290	51.6
Aroclor-1232	4	8.585	-0.020	4702	46.4	4	8.721	-0.013	5126	117.7
Total Col1Ave (4 peaks):					22.3	Total Col2Ave (4 peaks):				69.6 RPD = 103*
Corrected Ave (3 peaks):					14.3	Corrected Ave (3 peaks):				53.5 RPD = 116*
Aroclor-1242	1	7.255	-0.034	7708	53.7	1	7.275	0.005	5802	41.4
Aroclor-1242	2	7.665	-0.011	6694	14.7	2	7.861	-0.011	8290	27.9
Aroclor-1242	3	8.416	-0.006	6135	46.8	3	9.157	-0.012	7491	78.1
Aroclor-1242	4	9.003	-0.018	18074	66.4	4	9.548	-0.041	11472	99.5
Total Col1Ave (4 peaks):					45.4	Total Col2Ave (4 peaks):				61.7 RPD = 31
Corrected Ave (3 peaks):					38.4	Corrected Ave (3 peaks):				49.1 RPD = 25
Aroclor-1248	1	8.416	-0.011	6135	28.2	1	8.316	-0.005	6418	47.5
Aroclor-1248	2	8.585	-0.019	4702	16.9	2	8.721	-0.004	5126	36.1
Aroclor-1248	3	9.003	-0.020	18074	36.2	3	9.157	-0.014	7491	43.3
Aroclor-1248	4	9.303	-0.008	26359	107.6	4	9.548	-0.044	11472	56.5
Total Col1Ave (4 peaks):					47.2	Total Col2Ave (4 peaks):				45.8 RPD = 3
Corrected Ave (3 peaks):					27.1	Corrected Ave (3 peaks):				42.3 RPD = 44*
Aroclor-1254	1	9.303	-0.011	26359	59.1	1	9.453	-0.008	17677	82.9
Aroclor-1254	2	9.379	-0.015	9646	55.6	2	9.971	-0.007	8798	51.3
Aroclor-1254	3	9.674	-0.012	15974	56.7	3	10.123	-0.006	34405	93.3
Aroclor-1254	4	9.805	-0.016	36737	66.9	4	10.373	-0.005	44007	115.3
Aroclor-1254	5	10.126	-0.050	60598	161.1	5	10.568	-0.009	44657	242.5
Total Col1Ave (5 peaks):					79.9	Total Col2Ave (5 peaks):				117.1 RPD = 38
Corrected Ave (4 peaks):					59.6	Corrected Ave (4 peaks):				85.7 RPD = 36
Aroclor-1260	1	11.047	-0.015	36195	127.4	1	11.656	-0.007	29891	118.4
Aroclor-1260	2	11.360	-0.017	30327	103.2	2	11.917	-0.009	71663	113.1
Aroclor-1260	3	11.733	-0.019	99620	129.0	3	12.435	-0.009	24439	144.9
Aroclor-1260	4	12.134	-0.024	51660	131.4	4	12.500	-0.009	48343	114.5
Aroclor-1260	5	12.247	-0.015	20246	125.8	NS	---			----
Total Col1Ave (5 peaks):					123.4	Total Col2Ave (4 peaks):				122.7 RPD = 1
Corrected Ave (4 peaks):					121.3	Corrected Ave (3 peaks):				115.4 RPD = 5
Aroclor-1262	1	10.824	-0.024	83001	318.0	1	11.203	-0.015	27611	75.9
Aroclor-1262	2	12.247	-0.016	20246	49.9	2	11.656	-0.014	29891	94.9
Aroclor-1262	3	12.320	-0.016	24629	56.8	3	12.435	-0.016	24439	70.4
Aroclor-1262	4	12.987	-0.018	22681	65.2	4	12.500	-0.019	48343	88.8
Total Col1Ave (4 peaks):					122.5	Total Col2Ave (4 peaks):				82.5 RPD = 39
Corrected Ave (3 peaks):					57.3	Corrected Ave (3 peaks):				78.4 RPD = 31
Aroclor-1268	1	12.247	-0.016	20246	18.5	1	12.435	-0.014	24439	27.1
Aroclor-1268	2	12.320	-0.015	24629	23.1	2	12.500	-0.017	48343	52.2
Aroclor-1268	3	12.724	0.007	11403	13.0	3	12.899	-0.011	858	2.5
Aroclor-1268	4	13.489	-0.016	3444	1.3	4	13.711	-0.016	5729	2.3
Total Col1Ave (4 peaks):					14.0	Total Col2Ave (4 peaks):				21.0 RPD = 40*

Corrected Ave (3 peaks): 11.0 Corrected Ave (3 peaks): 10.6 RPD = 3

Total PCB Area Col1 (5.932 - 13.803) = 1020409 Col1 Total PCB = 0.2 ppm*

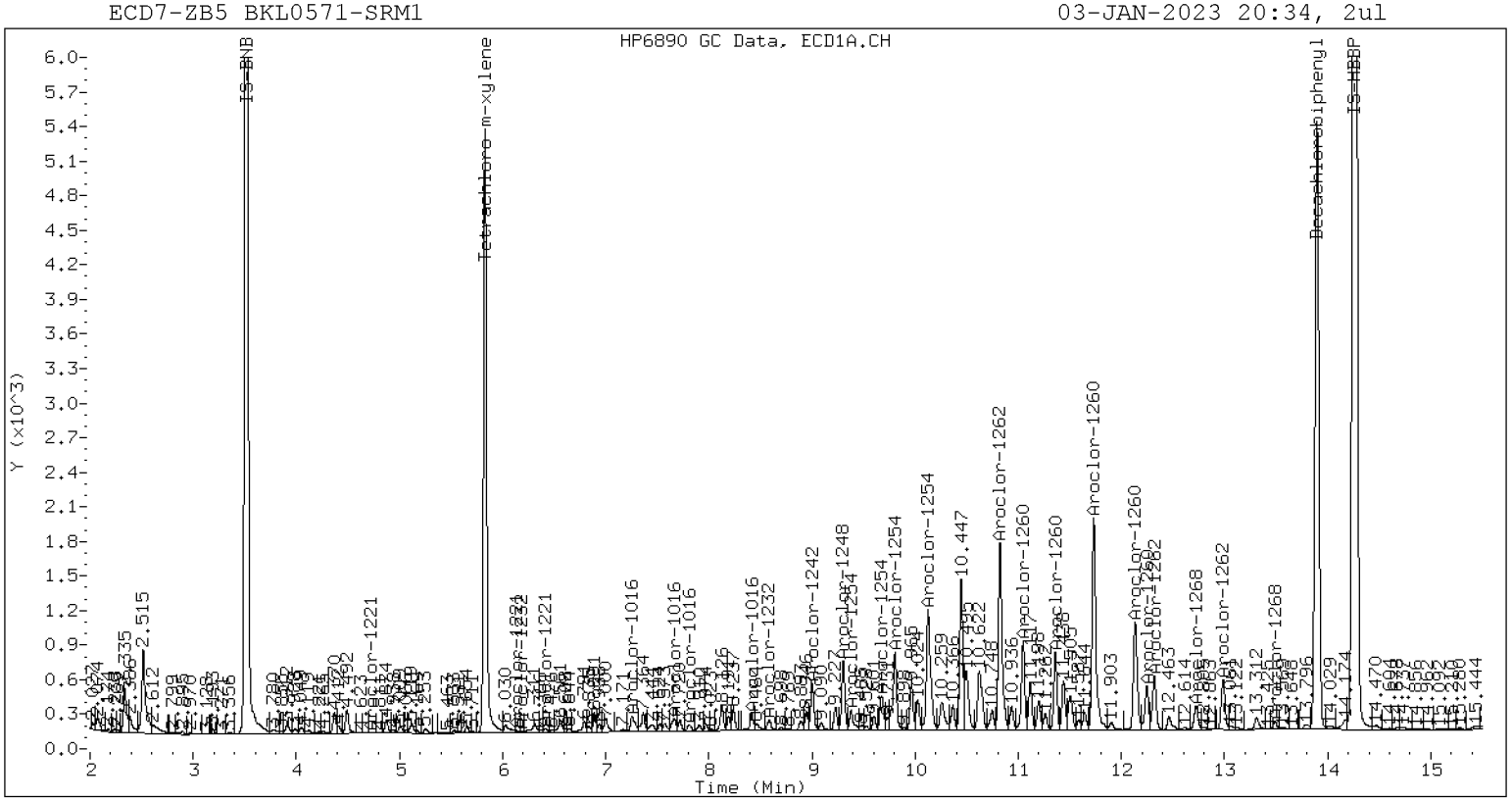
Total PCB Area Col2 (5.808 - 14.029) = 794768 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

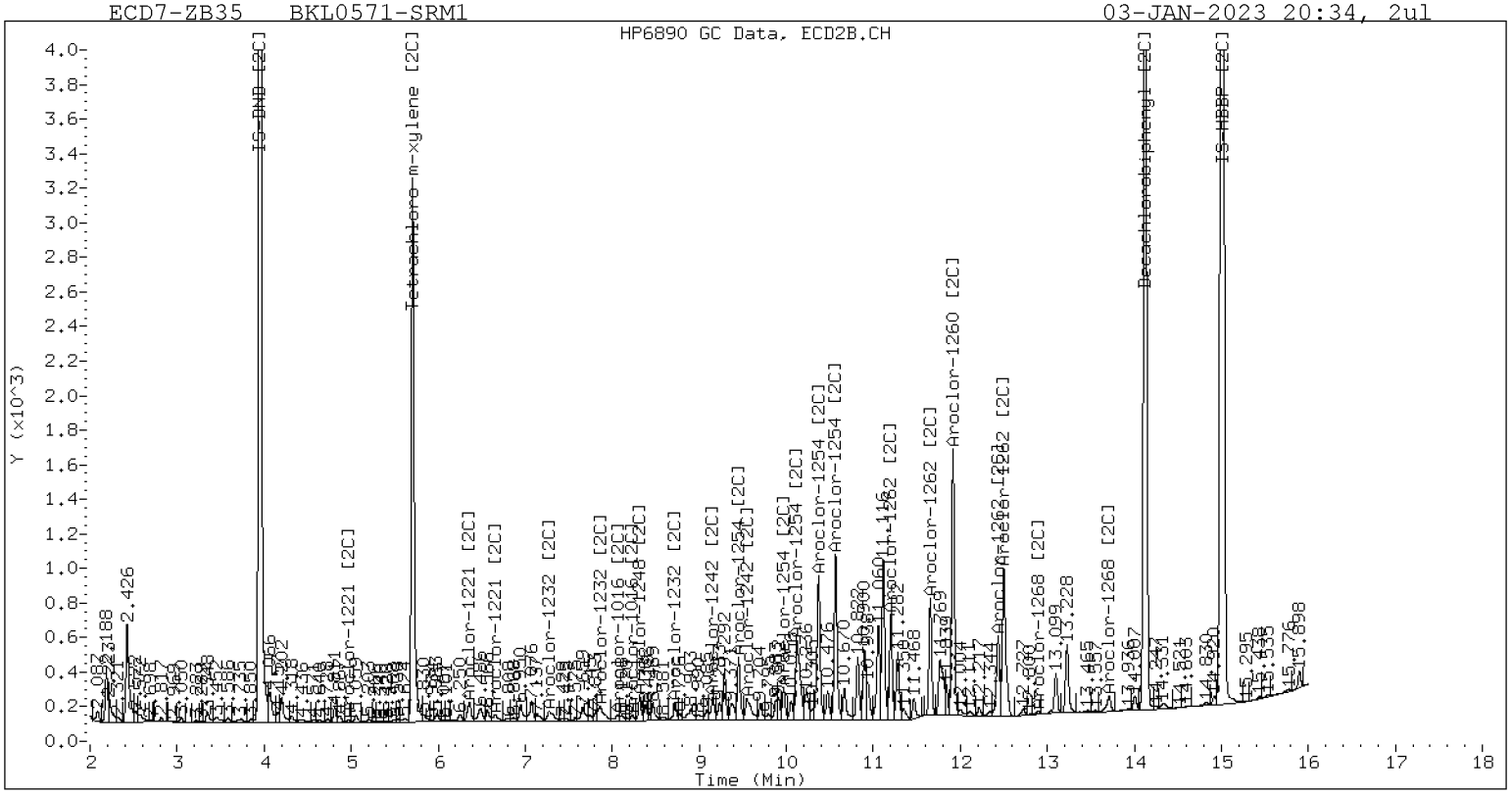
PCB Dual Column Chromatograms

ECD7-ZB5 BKL0571-SRM1 03-JAN-2023 20:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 BKL0571-SRM1 03-JAN-2023 20:34, 2ul



ZB-35 Manual Integration: NO

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016	250	4.442913E-02	20	4.639571E-02	50	4.556147E-02	1000	3.903737E-02	100	4.740063E-02	500	4.233908E-02
Aroclor-1016 (1)	250	0.0268956	20	2.831682E-02	50	2.733211E-02	1000	2.312039E-02	100	2.907079E-02	500	2.538029E-02
Aroclor-1016 (2)	250	8.716121E-02	20	8.901322E-02	50	8.663465E-02	1000	7.848829E-02	100	9.099677E-02	500	8.464895E-02
Aroclor-1016 (3)	250	3.855698E-02	20	4.367479E-02	50	4.254251E-02	1000	3.139182E-02	100	4.326795E-02	500	3.482108E-02
Aroclor-1016 (4)	250	2.510275E-02	20	2.457802E-02	50	2.573659E-02	1000	2.314899E-02	100	2.626702E-02	500	2.450599E-02
Aroclor 1260	250	3.933402E-02	20	3.911434E-02	50	3.944532E-02	1000	3.674839E-02	100	4.123393E-02	500	3.832917E-02
Aroclor-1260 (1)	250	2.958395E-02	20	0.0300145	50	2.965004E-02	1000	0.0267287	100	3.044201E-02	500	2.830143E-02
Aroclor-1260 (2)	250	3.061257E-02	20	3.036959E-02	50	3.047228E-02	1000	2.827023E-02	100	0.0314491	500	2.953467E-02
Aroclor-1260 (3)	250	7.944504E-02	20	7.975557E-02	50	8.046888E-02	1000	7.412282E-02	100	8.422959E-02	500	7.678876E-02
Aroclor-1260 (4)	250	4.058671E-02	20	3.908843E-02	50	3.991468E-02	1000	3.908356E-02	100	4.249747E-02	500	4.063095E-02
Aroclor-1260 (5)	250	1.644185E-02	20	1.634363E-02	50	1.672073E-02	1000	1.553661E-02	100	1.755145E-02	500	1.639006E-02
Decachlorobiphenyl	40	0.7065182	3.2	0.8368252	8	0.7533014	160	0.6637701	16	0.7576822	80	0.6818994
Tetrachlorometaxylene	40	1.143098	3.2	1.157321	8	1.126881	160	1.081522	16	1.184437	80	1.108767

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221							250	1.504683E-02				
Aroclor-1221 (1)							250	6.613213E-03				
Aroclor-1221 (2)							250	1.165022E-02				
Aroclor-1221 (3)							250	2.687706E-02				
Aroclor 1232									250	0.0165403		
Aroclor-1232 (1)									250	3.980209E-03		
Aroclor-1232 (2)									250	8.407005E-03		
Aroclor-1232 (3)									250	3.775546E-02		
Aroclor-1232 (4)									250	1.601853E-02		
Aroclor 1242	250	3.960003E-02										
Aroclor-1242 (1)	250	2.267549E-02										
Aroclor-1242 (2)	250	0.0719967										
Aroclor-1242 (3)	250	2.071466E-02										
Aroclor-1242 (4)	250	4.301325E-02										
Aroclor 1248			250	4.900615E-02								
Aroclor-1248 (1)			250	3.439698E-02								
Aroclor-1248 (2)			250	4.391715E-02								
Aroclor-1248 (3)			250	7.900514E-02								
Aroclor-1248 (4)			250	3.870534E-02								
Aroclor 1254					250	5.769652E-02						
Aroclor-1254 (1)					250	7.043771E-02						
Aroclor-1254 (2)					250	2.739345E-02						
Aroclor-1254 (3)					250	4.448852E-02						
Aroclor-1254 (4)					250	8.671846E-02						
Aroclor-1254 (5)					250	5.944443E-02						
Aroclor 1262							250	3.710383E-02				
Aroclor-1262 (1)							250	2.675294E-02				
Aroclor-1262 (2)							250	4.159274E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3)							250	4.441976E-02				
Aroclor-1262 (4)							250	0.0356499				
Aroclor 1268									250	0.1462909		
Aroclor-1268 (1)									250	0.1119264		
Aroclor-1268 (2)									250	0.1094959		
Aroclor-1268 (3)									250	8.974437E-02		
Aroclor-1268 (4)									250	0.2739969		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016	0.0441939	6.9			RSD (20)	
Aroclor-1016 (1)	0.026686	8.1			RSD (20)	
Aroclor-1016 (2)	8.615718E-02	5.0			RSD (20)	
Aroclor-1016 (3)	3.904252E-02	13.0			RSD (20)	
Aroclor-1016 (4)	2.488989E-02	4.4			RSD (20)	
Aroclor 1221		0.0			RSD (20)	
Aroclor-1221 (1)		0.0			RSD (20)	
Aroclor-1221 (2)		0.0			RSD (20)	
Aroclor-1221 (3)		0.0			RSD (20)	
Aroclor 1232		0.0			RSD (20)	
Aroclor-1232 (1)		0.0			RSD (20)	
Aroclor-1232 (2)		0.0			RSD (20)	
Aroclor-1232 (3)		0.0			RSD (20)	
Aroclor-1232 (4)		0.0			RSD (20)	
Aroclor 1242		0.0			RSD (20)	
Aroclor-1242 (1)		0.0			RSD (20)	
Aroclor-1242 (2)		0.0			RSD (20)	
Aroclor-1242 (3)		0.0			RSD (20)	
Aroclor-1242 (4)		0.0			RSD (20)	
Aroclor 1248		0.0			RSD (20)	
Aroclor-1248 (1)		0.0			RSD (20)	
Aroclor-1248 (2)		0.0			RSD (20)	
Aroclor-1248 (3)		0.0			RSD (20)	
Aroclor-1248 (4)		0.0			RSD (20)	
Aroclor 1254		0.0			RSD (20)	
Aroclor-1254 (1)		0.0			RSD (20)	
Aroclor-1254 (2)		0.0			RSD (20)	
Aroclor-1254 (3)		0.0			RSD (20)	
Aroclor-1254 (4)		0.0			RSD (20)	
Aroclor-1254 (5)		0.0			RSD (20)	
Aroclor 1260	0.0390342	3.8			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (1):	ZB5

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1)	2.912011E-02	4.7			RSD (20)	
Aroclor-1260 (2)	3.011807E-02	3.6			RSD (20)	
Aroclor-1260 (3)	7.913511E-02	4.3			RSD (20)	
Aroclor-1260 (4)	0.0403003	3.2			RSD (20)	
Aroclor-1260 (5)	1.649739E-02	3.9			RSD (20)	
Aroclor 1262		0.0			RSD (20)	
Aroclor-1262 (1)		0.0			RSD (20)	
Aroclor-1262 (2)		0.0			RSD (20)	
Aroclor-1262 (3)		0.0			RSD (20)	
Aroclor-1262 (4)		0.0			RSD (20)	
Aroclor 1268		0.0			RSD (20)	
Aroclor-1268 (1)		0.0			RSD (20)	
Aroclor-1268 (2)		0.0			RSD (20)	
Aroclor-1268 (3)		0.0			RSD (20)	
Aroclor-1268 (4)		0.0			RSD (20)	
Decachlorobiphenyl	0.7333327	8.6			RSD (20)	
Tetrachlorometaxylene	1.133671	3.2			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1016 [2C]	250	4.636996E-02	20	4.892746E-02	50	4.983417E-02	1000	4.130781E-02	100	4.955636E-02	500	4.439044E-02
Aroclor-1016 (1) [2C]	250	4.084306E-02	20	4.420829E-02	50	4.265547E-02	1000	3.510686E-02	100	0.0443387	500	3.826546E-02
Aroclor-1016 (2) [2C]	250	8.779336E-02	20	9.126619E-02	50	9.396419E-02	1000	7.840925E-02	100	9.357078E-02	500	8.428834E-02
Aroclor-1016 (3) [2C]	250	3.650991E-02	20	4.176802E-02	50	4.245186E-02	1000	3.207576E-02	100	3.977512E-02	500	3.472696E-02
Aroclor-1016 (4) [2C]	250	2.033353E-02	20	1.846735E-02	50	2.026517E-02	1000	1.963937E-02	100	2.054085E-02	500	0.020281
Aroclor 1260 [2C]	250	6.221729E-02	20	0.0650374	50	6.381838E-02	1000	5.557609E-02	100	6.547338E-02	500	5.844879E-02
Aroclor-1260 (1) [2C]	250	4.226259E-02	20	4.530508E-02	50	4.502141E-02	1000	3.753653E-02	100	0.0443443	500	3.890007E-02
Aroclor-1260 (2) [2C]	250	0.1084108	20	0.1102753	50	0.109287	1000	9.364812E-02	100	0.1132315	500	0.1009332
Aroclor-1260 (3) [2C]	250	0.0279644	20	2.937953E-02	50	2.834399E-02	1000	2.696653E-02	100	2.956699E-02	500	2.708248E-02
Aroclor-1260 (4) [2C]	250	7.023139E-02	20	7.518967E-02	50	7.262117E-02	1000	0.0641532	100	0.0747507	500	6.687944E-02
Decachlorobiphenyl [2C]	40	1.127762	3.2	1.199521	8	1.131904	160	1.086775	16	1.175985	80	1.092964
Tetrachlorometaxylene [2C]	40	1.103254	3.2	1.151553	8	1.074022	160	1.032691	16	1.152616	80	1.06551

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor 1221 [2C]							250	0.0137578				
Aroclor-1221 (1) [2C]							250	6.751325E-03				
Aroclor-1221 (2) [2C]							250	1.286764E-02				
Aroclor-1221 (3) [2C]							250	2.165445E-02				
Aroclor 1232 [2C]									250	1.828151E-02		
Aroclor-1232 (1) [2C]									250	3.890243E-03		
Aroclor-1232 (2) [2C]									250	1.986677E-02		
Aroclor-1232 (3) [2C]									250	3.883859E-02		
Aroclor-1232 (4) [2C]									250	1.053044E-02		
Aroclor 1242 [2C]	250	3.919814E-02										
Aroclor-1242 (1) [2C]	250	3.385823E-02										
Aroclor-1242 (2) [2C]	250	7.187561E-02										
Aroclor-1242 (3) [2C]	250	2.318837E-02										
Aroclor-1242 (4) [2C]	250	2.787036E-02										
Aroclor 1248 [2C]			250	3.948755E-02								
Aroclor-1248 (1) [2C]			250	3.268192E-02								
Aroclor-1248 (2) [2C]			250	3.437347E-02								
Aroclor-1248 (3) [2C]			250	4.181202E-02								
Aroclor-1248 (4) [2C]			250	0.0490828								
Aroclor 1254 [2C]					250	6.380467E-02						
Aroclor-1254 (1) [2C]					250	5.157979E-02						
Aroclor-1254 (2) [2C]					250	4.146889E-02						
Aroclor-1254 (3) [2C]					250	8.913704E-02						
Aroclor-1254 (4) [2C]					250	0.092314						
Aroclor-1254 (5) [2C]					250	4.452362E-02						
Aroclor 1262 [2C]							250	6.566399E-02				
Aroclor-1262 (1) [2C]							250	6.082829E-02				
Aroclor-1262 (2) [2C]							250	5.268389E-02				

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF	Conc	RRF
Aroclor-1262 (3) [2C]							250	5.811375E-02				
Aroclor-1262 (4) [2C]							250	9.103002E-02				
Aroclor 1268 [2C]									250	0.1941199		
Aroclor-1268 (1) [2C]									250	0.1510112		
Aroclor-1268 (2) [2C]									250	0.1548399		
Aroclor-1268 (3) [2C]									250	5.741847E-02		
Aroclor-1268 (4) [2C]									250	0.4132099		

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor 1016 [2C]	4.673103E-02	7.3			RSD (20)	
Aroclor-1016 (1) [2C]	4.090297E-02	8.9			RSD (20)	
Aroclor-1016 (2) [2C]	8.821535E-02	6.9			RSD (20)	
Aroclor-1016 (3) [2C]	0.0378846	10.9			RSD (20)	
Aroclor-1016 (4) [2C]	1.992121E-02	3.9			RSD (20)	
Aroclor 1221 [2C]		0.0			RSD (20)	
Aroclor-1221 (1) [2C]		0.0			RSD (20)	
Aroclor-1221 (2) [2C]		0.0			RSD (20)	
Aroclor-1221 (3) [2C]		0.0			RSD (20)	
Aroclor 1232 [2C]		0.0			RSD (20)	
Aroclor-1232 (1) [2C]		0.0			RSD (20)	
Aroclor-1232 (2) [2C]		0.0			RSD (20)	
Aroclor-1232 (3) [2C]		0.0			RSD (20)	
Aroclor-1232 (4) [2C]		0.0			RSD (20)	
Aroclor 1242 [2C]		0.0			RSD (20)	
Aroclor-1242 (1) [2C]		0.0			RSD (20)	
Aroclor-1242 (2) [2C]		0.0			RSD (20)	
Aroclor-1242 (3) [2C]		0.0			RSD (20)	
Aroclor-1242 (4) [2C]		0.0			RSD (20)	
Aroclor 1248 [2C]		0.0			RSD (20)	
Aroclor-1248 (1) [2C]		0.0			RSD (20)	
Aroclor-1248 (2) [2C]		0.0			RSD (20)	
Aroclor-1248 (3) [2C]		0.0			RSD (20)	
Aroclor-1248 (4) [2C]		0.0			RSD (20)	
Aroclor 1254 [2C]		0.0			RSD (20)	
Aroclor-1254 (1) [2C]		0.0			RSD (20)	
Aroclor-1254 (2) [2C]		0.0			RSD (20)	
Aroclor-1254 (3) [2C]		0.0			RSD (20)	
Aroclor-1254 (4) [2C]		0.0			RSD (20)	
Aroclor-1254 (5) [2C]		0.0			RSD (20)	
Aroclor 1260 [2C]	6.176189E-02	6.4			RSD (20)	

INITIAL CALIBRATION DATA

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FL00010	Instrument:	ECD7
Calibration Date:	12/03/2022	Column (2):	ZB35

COMPOUND	Mean RRF	RRF RSD	Linear COD	Quad COD	Limit Type & Limit	Q
Aroclor-1260 (1) [2C]	4.222833E-02	7.8			RSD (20)	
Aroclor-1260 (2) [2C]	0.1059643	6.9			RSD (20)	
Aroclor-1260 (3) [2C]	2.821732E-02	3.9			RSD (20)	
Aroclor-1260 (4) [2C]	7.063759E-02	6.3			RSD (20)	
Aroclor 1262 [2C]		0.0			RSD (20)	
Aroclor-1262 (1) [2C]		0.0			RSD (20)	
Aroclor-1262 (2) [2C]		0.0			RSD (20)	
Aroclor-1262 (3) [2C]		0.0			RSD (20)	
Aroclor-1262 (4) [2C]		0.0			RSD (20)	
Aroclor 1268 [2C]		0.0			RSD (20)	
Aroclor-1268 (1) [2C]		0.0			RSD (20)	
Aroclor-1268 (2) [2C]		0.0			RSD (20)	
Aroclor-1268 (3) [2C]		0.0			RSD (20)	
Aroclor-1268 (4) [2C]		0.0			RSD (20)	
Decachlorobiphenyl [2C]	1.135818	3.9			RSD (20)	
Tetrachlorometaxylene [2C]	1.096608	4.4			RSD (20)	

Printed: 12/6/2022 9:25:24AM

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032210ECD7.D
Data file 2: /221203.b/221203.b/12032210ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: PCB.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: IB
Client ID:
Injection Date: 03-DEC-2022 17:58
Report Date: 12/05/2022 13:27
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	239778	5.713	-0.000	128576	38.5	38.5	0.1	Tetrachloro-m-xylene
13.907	-0.001	273387	14.135	-0.002	193829	39.5	39.9	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	439478	-1.8
Hexabromobiphenyl	798898	755658	-5.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	243327	-2.3
Hexabromobiphenyl	362541	342503	-5.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	---			0.0	1	---			0.0
Aroclor-1016	2	---			0.0	2	---			0.0
Aroclor-1016	3	---			0.0	3	---			0.0
Aroclor-1016	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1221	1	---			0.0	1	---			0.0
Aroclor-1221	2	---			0.0	2	---			0.0
Aroclor-1221	3	---			0.0	3	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1232	1	---			0.0	1	---			0.0
Aroclor-1232	2	---			0.0	2	---			0.0
Aroclor-1232	3	---			0.0	3	---			0.0
Aroclor-1232	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1242	1	---			0.0	1	---			0.0
Aroclor-1242	2	---			0.0	2	---			0.0
Aroclor-1242	3	---			0.0	3	---			0.0
Aroclor-1242	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1248	1	---			0.0	1	---			0.0
Aroclor-1248	2	---			0.0	2	---			0.0
Aroclor-1248	3	---			0.0	3	---			0.0
Aroclor-1248	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1254	1	---			0.0	1	---			0.0
Aroclor-1254	2	---			0.0	2	---			0.0
Aroclor-1254	3	---			0.0	3	---			0.0
Aroclor-1254	4	---			0.0	4	---			0.0
Aroclor-1254	5	---			0.0	5	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1260	1	---			0.0	1	---			0.0
Aroclor-1260	2	---			0.0	2	---			0.0
Aroclor-1260	3	---			0.0	3	---			0.0
Aroclor-1260	4	---			0.0	4	---			0.0
Aroclor-1260	5	---			0.0	NS	---			----
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1262	1	---			0.0	1	---			0.0
Aroclor-1262	2	---			0.0	2	---			0.0
Aroclor-1262	3	---			0.0	3	---			0.0
Aroclor-1262	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				
Aroclor-1268	1	---			0.0	1	---			0.0
Aroclor-1268	2	---			0.0	2	---			0.0
Aroclor-1268	3	---			0.0	3	---			0.0
Aroclor-1268	4	---			0.0	4	---			0.0
	Col1Ave: <3 Quant Peaks					Col2Ave: <3 Quant Peaks				

Total PCB Area Col1 (5.936 - 13.808) = 14711 Col1 Total PCB = 0.0 ppm*

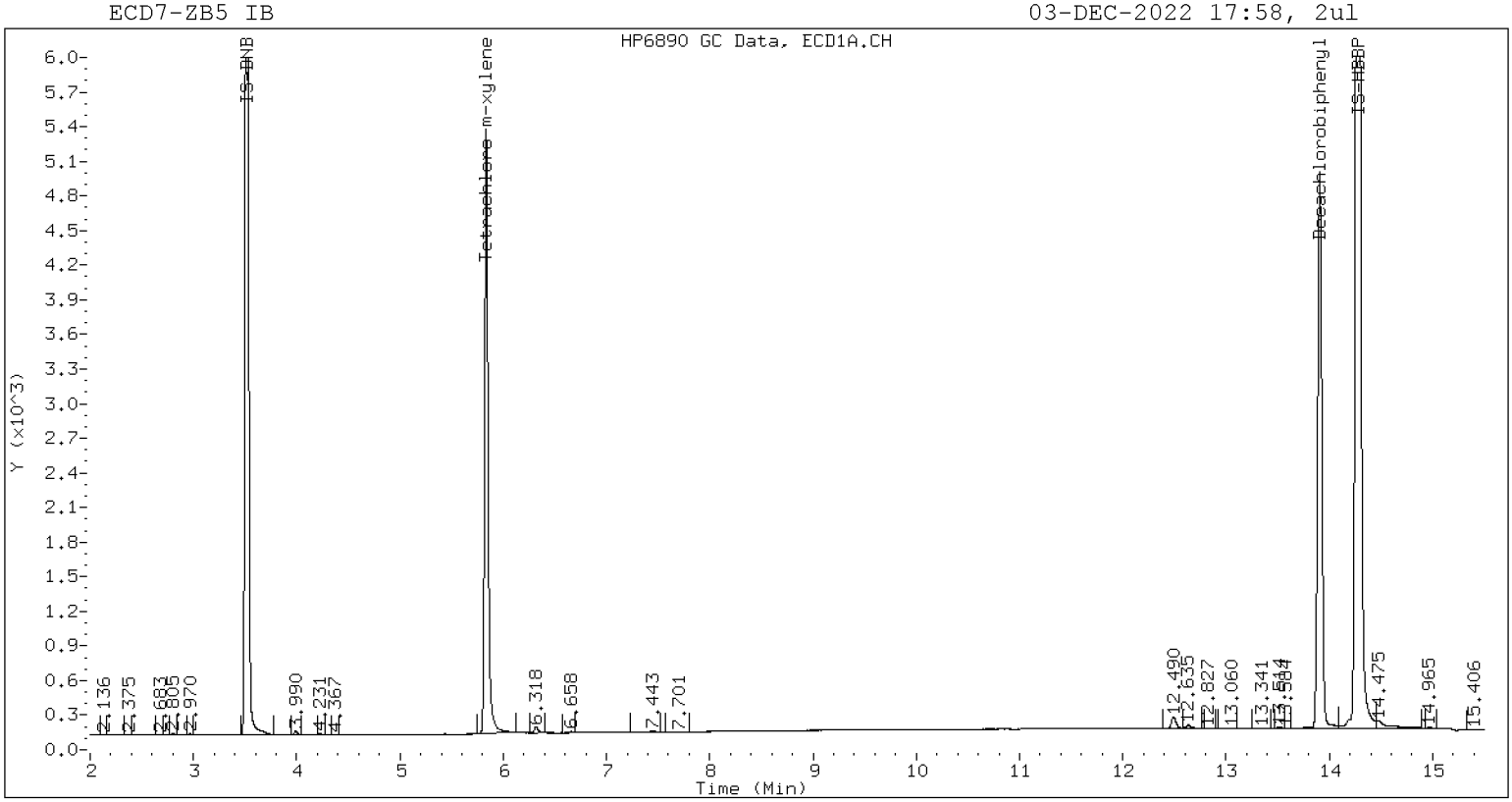
Total PCB Area Col2 (5.936 - 13.808) = 6305 Col2 Total PCB = 0.0 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

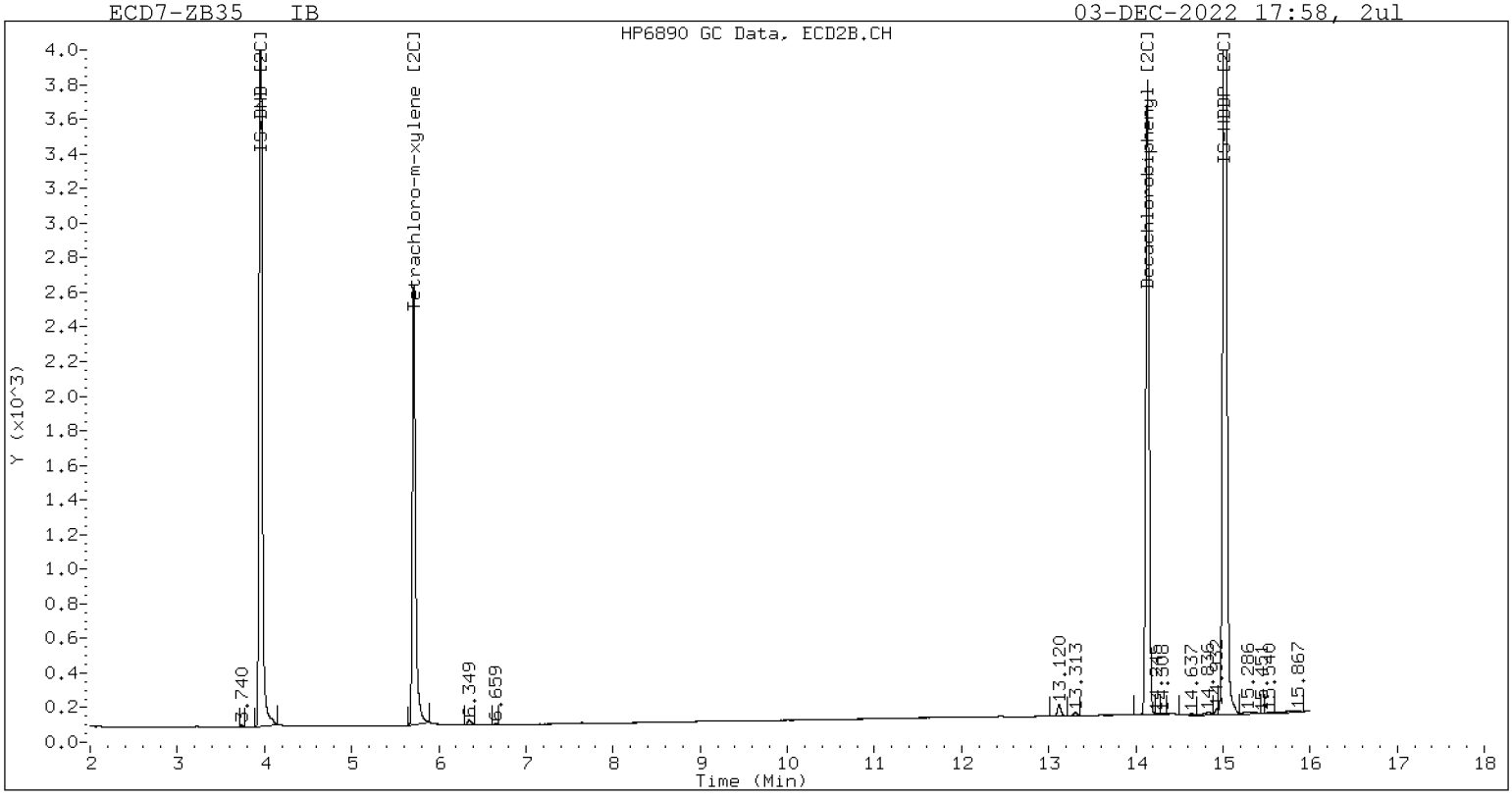
PCB Dual Column Chromatograms

ECD7-ZB5 IB 03-DEC-2022 17:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 IB 03-DEC-2022 17:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032211ECD7.D
Data file 2: /221203.b/221203.b/12032211ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.25PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:19
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	255851	5.713	-0.000	137407	40.3	40.2	0.2	Tetrachloro-m-xylene
13.908	-0.001	282218	14.135	-0.001	204430	38.5	39.7	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	447645	0.0
Hexabromobiphenyl	798898	798898	0.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	249094	0.0
Hexabromobiphenyl	362541	362541	0.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.293	0.001	37624	252.0	1	7.277	0.002	31793	249.6
Aroclor-1016	2	7.679	0.005	121929	252.9	2	7.873	0.002	68340	248.8
Aroclor-1016	3	7.813	0.003	53937	246.9	3	8.072	0.002	28420	240.9
Aroclor-1016	4	8.426	0.002	35116	252.1	4	8.243	0.002	15828	255.2
Total Col1Ave (4 peaks):					251.0	Total Col2Ave (4 peaks):				248.6 RPD = 1
Corrected Ave (3 peaks):					250.3	Corrected Ave (3 peaks):				246.5 RPD = 2
CalAmt %D:					0.4	CalAmt %D:				-0.5
Aroclor-1260	1	11.062	0.001	73858	254.0	1	11.670	0.001	47881	250.2
Aroclor-1260	2	11.378	0.000	76426	254.1	2	11.933	0.000	122823	255.8
Aroclor-1260	3	11.752	0.002	198339	251.0	3	12.452	0.001	31682	247.8
Aroclor-1260	4	12.156	0.002	101327	251.8	4	12.518	0.001	79568	248.6
Aroclor-1260	5	12.262	0.002	41048	249.2	NS	---			----
Total Col1Ave (5 peaks):					252.0	Total Col2Ave (4 peaks):				250.6 RPD = 1
Corrected Ave (4 peaks):					251.5	Corrected Ave (3 peaks):				248.8 RPD = 1
CalAmt %D:					0.8	CalAmt %D:				0.2

Total PCB Area Col1 (5.936 - 13.808) = 2139467 Col1 Total PCB = 0.4 ppm*

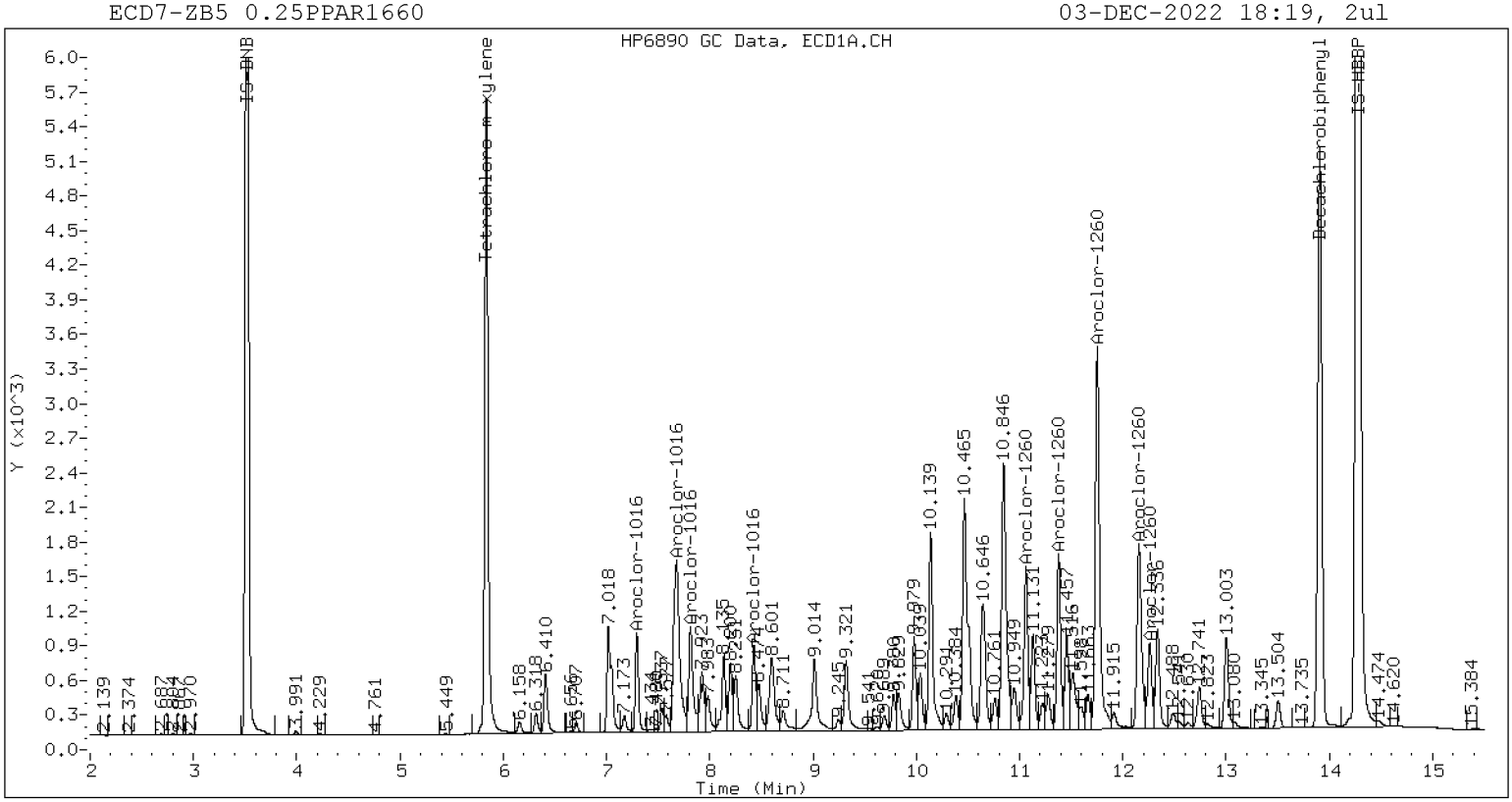
Total PCB Area Col2 (5.936 - 13.808) = 1168134 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

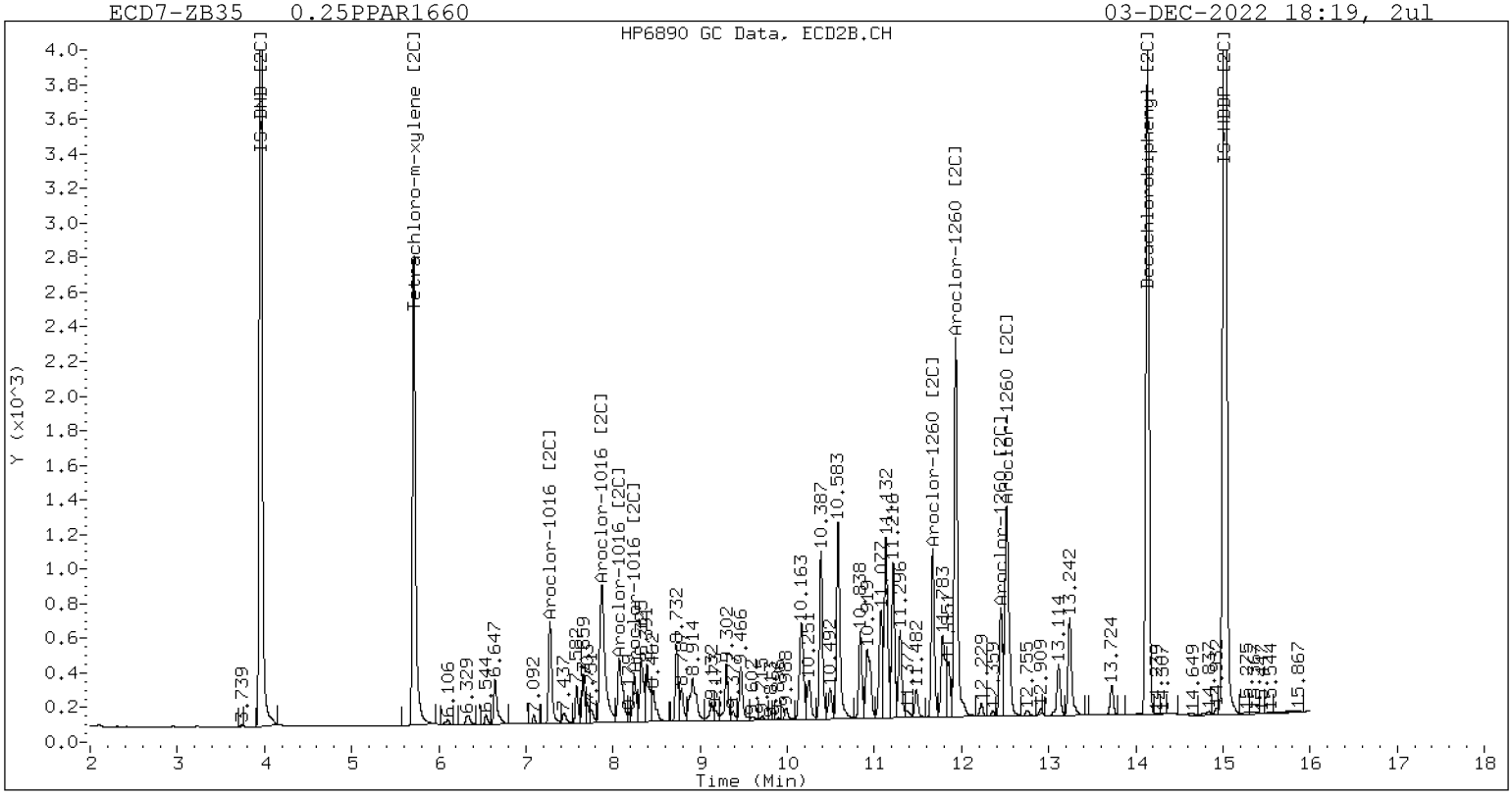
PCB Dual Column Chromatograms

ECD7-ZB5 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.25PPAR1660 03-DEC-2022 18:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032212ECD7.D
Data file 2: /221203.b/221203.b/12032212ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.02PPAR1660
Client ID:
Injection Date: 03-DEC-2022 18:40
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	21148	5.713	-0.000	11703	3.3	3.4	2.8	Tetrachloro-m-xylene
13.907	-0.002	27903	14.135	-0.002	17860	3.7	3.4	7.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	456831	2.1
Hexabromobiphenyl	798898	833597	4.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254070	2.0
Hexabromobiphenyl	362541	372232	2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	3234	21.2	1	7.276	0.001	2808	21.6
Aroclor-1016	2	7.687	0.013	10166	20.7	2	7.879	0.009	5797	20.7
Aroclor-1016	3	7.819	0.009	4988	22.4	3	8.077	0.007	2653	22.1
Aroclor-1016	4	8.430	0.006	2807	19.7	4	8.249	0.008	1173	18.5
Total Col1Ave (4 peaks):					21.0	Total Col2Ave (4 peaks):				20.7 RPD = 1
Corrected Ave (3 peaks):					20.5	Corrected Ave (3 peaks):				20.3 RPD = 1
CalAmt %D:					5.0	CalAmt %D:				3.6
Aroclor-1260	1	11.066	0.004	6255	20.6	1	11.672	0.003	4216	21.5
Aroclor-1260	2	11.382	0.004	6329	20.2	2	11.937	0.005	10262	20.8
Aroclor-1260	3	11.758	0.008	16621	20.2	3	12.453	0.002	2734	20.8
Aroclor-1260	4	12.162	0.008	8146	19.4	4	12.521	0.004	6997	21.3
Aroclor-1260	5	12.264	0.004	3406	19.8	NS	---			----
Total Col1Ave (5 peaks):					20.0	Total Col2Ave (4 peaks):				21.1 RPD = 5
Corrected Ave (4 peaks):					19.9	Corrected Ave (3 peaks):				21.0 RPD = 5
CalAmt %D:					0.2	CalAmt %D:				5.5

Total PCB Area Col1 (5.936 - 13.808) = 188011 Col1 Total PCB = 0.0 ppm*

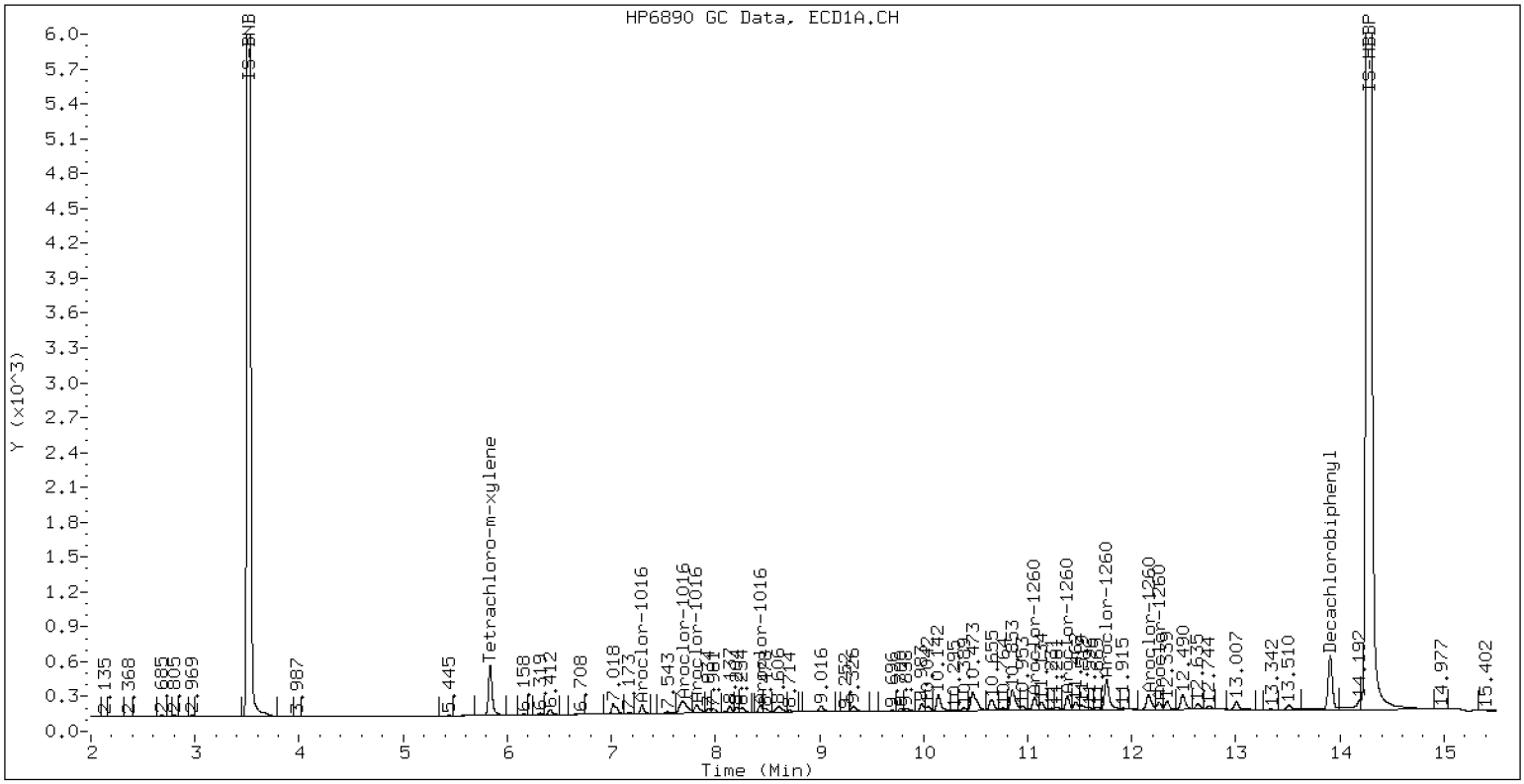
Total PCB Area Col2 (5.936 - 13.808) = 100527 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

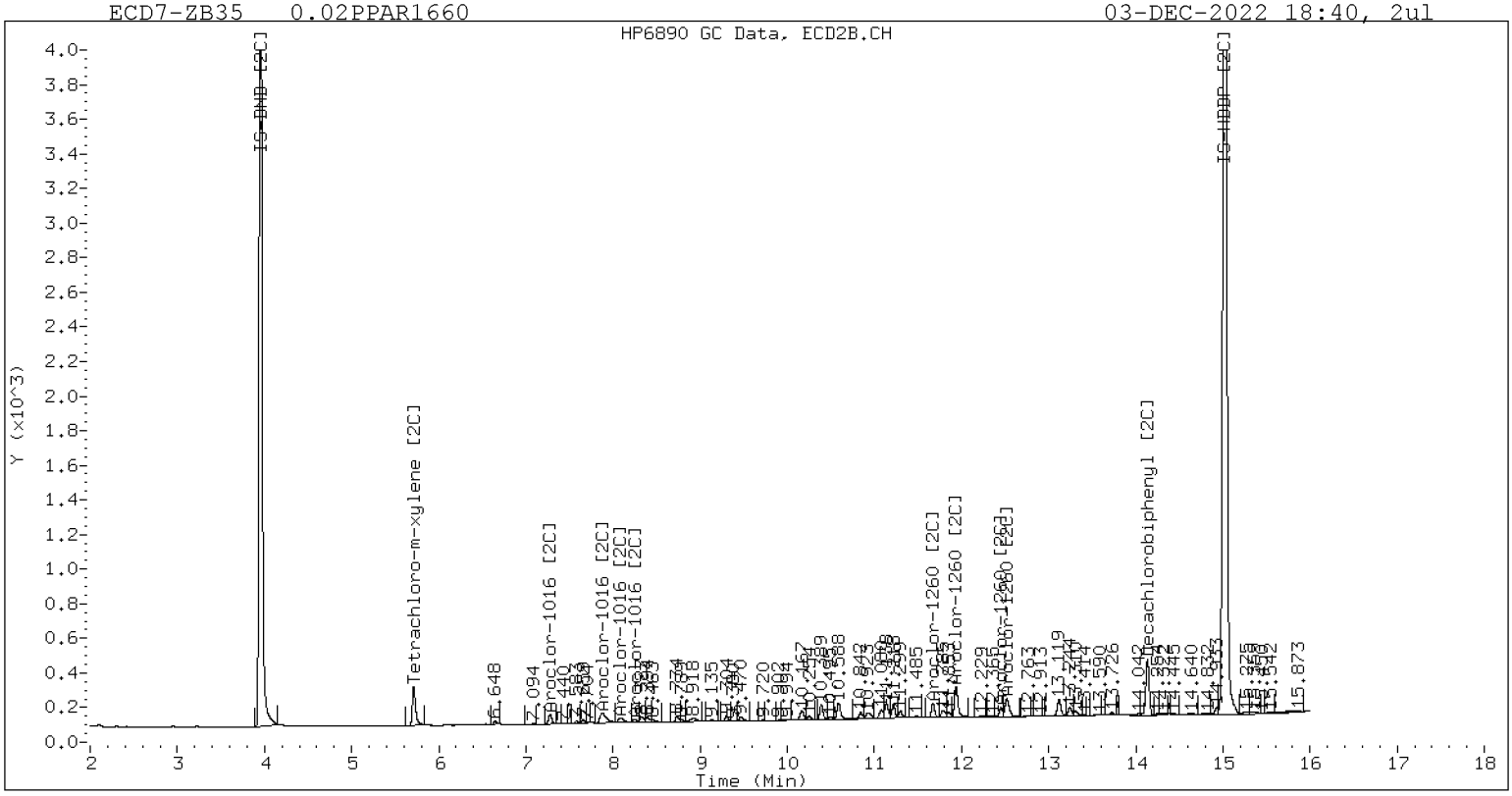
PCB Dual Column Chromatograms

ECD7-ZB5 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.02PPAR1660 03-DEC-2022 18:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032213ECD7.D
Data file 2: /221203.b/221203.b/12032213ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.05PPAR1660
Client ID:
Injection Date: 03-DEC-2022 19:01
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	51078	5.713	-0.000	27008	8.0	7.8	1.5	Tetrachloro-m-xylene
13.907	-0.001	63325	14.137	-0.000	42829	8.2	8.0	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453269	1.3
Hexabromobiphenyl	798898	840633	5.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251466	1.0
Hexabromobiphenyl	362541	378380	4.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.294	0.002	7743	51.2	1	7.277	0.002	6704	52.1
Aroclor-1016	2	7.686	0.012	24543	50.3	2	7.879	0.008	14768	53.3
Aroclor-1016	3	7.818	0.008	12052	54.5	3	8.078	0.007	6672	56.0
Aroclor-1016	4	8.429	0.005	7291	51.7	4	8.249	0.007	3185	50.9
Total Col1Ave (4 peaks):					51.9	Total Col2Ave (4 peaks):				53.1 RPD = 2
Corrected Ave (3 peaks):					51.1	Corrected Ave (3 peaks):				52.1 RPD = 2
CalAmt %D:					3.8	CalAmt %D:				6.1
Aroclor-1260	1	11.066	0.004	15578	50.9	1	11.673	0.003	10647	53.3
Aroclor-1260	2	11.382	0.005	16010	50.6	2	11.937	0.004	25845	51.6
Aroclor-1260	3	11.757	0.007	42278	50.8	3	12.454	0.002	6703	50.2
Aroclor-1260	4	12.160	0.006	20971	49.5	4	12.520	0.004	17174	51.4
Aroclor-1260	5	12.263	0.004	8785	50.7	NS	---			----
Total Col1Ave (5 peaks):					50.5	Total Col2Ave (4 peaks):				51.6 RPD = 2
Corrected Ave (4 peaks):					50.4	Corrected Ave (3 peaks):				51.1 RPD = 1
CalAmt %D:					1.0	CalAmt %D:				3.3

Total PCB Area Col1 (5.936 - 13.808) = 457627 Col1 Total PCB = 0.1 ppm*

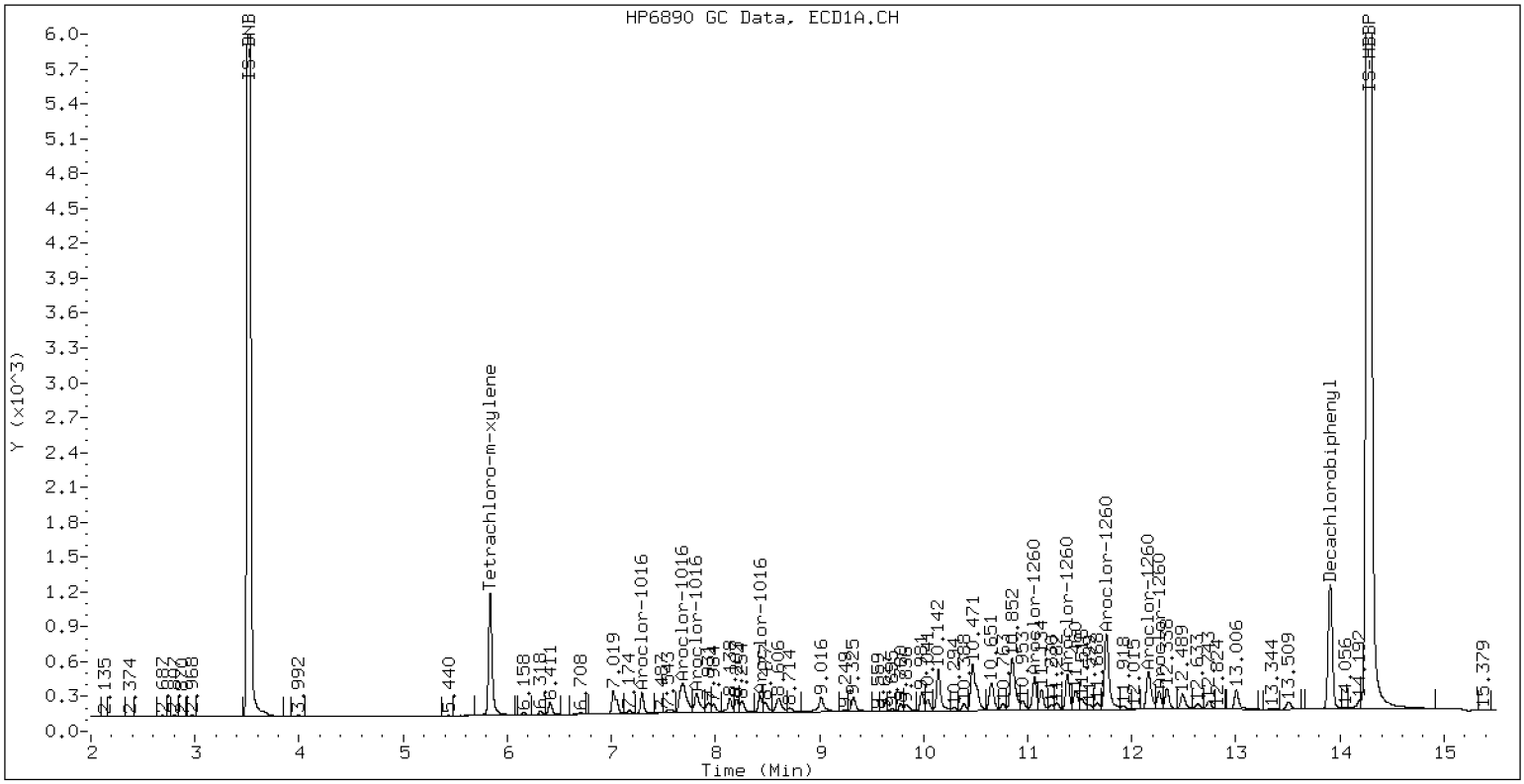
Total PCB Area Col2 (5.936 - 13.808) = 253240 Col2 Total PCB = 0.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

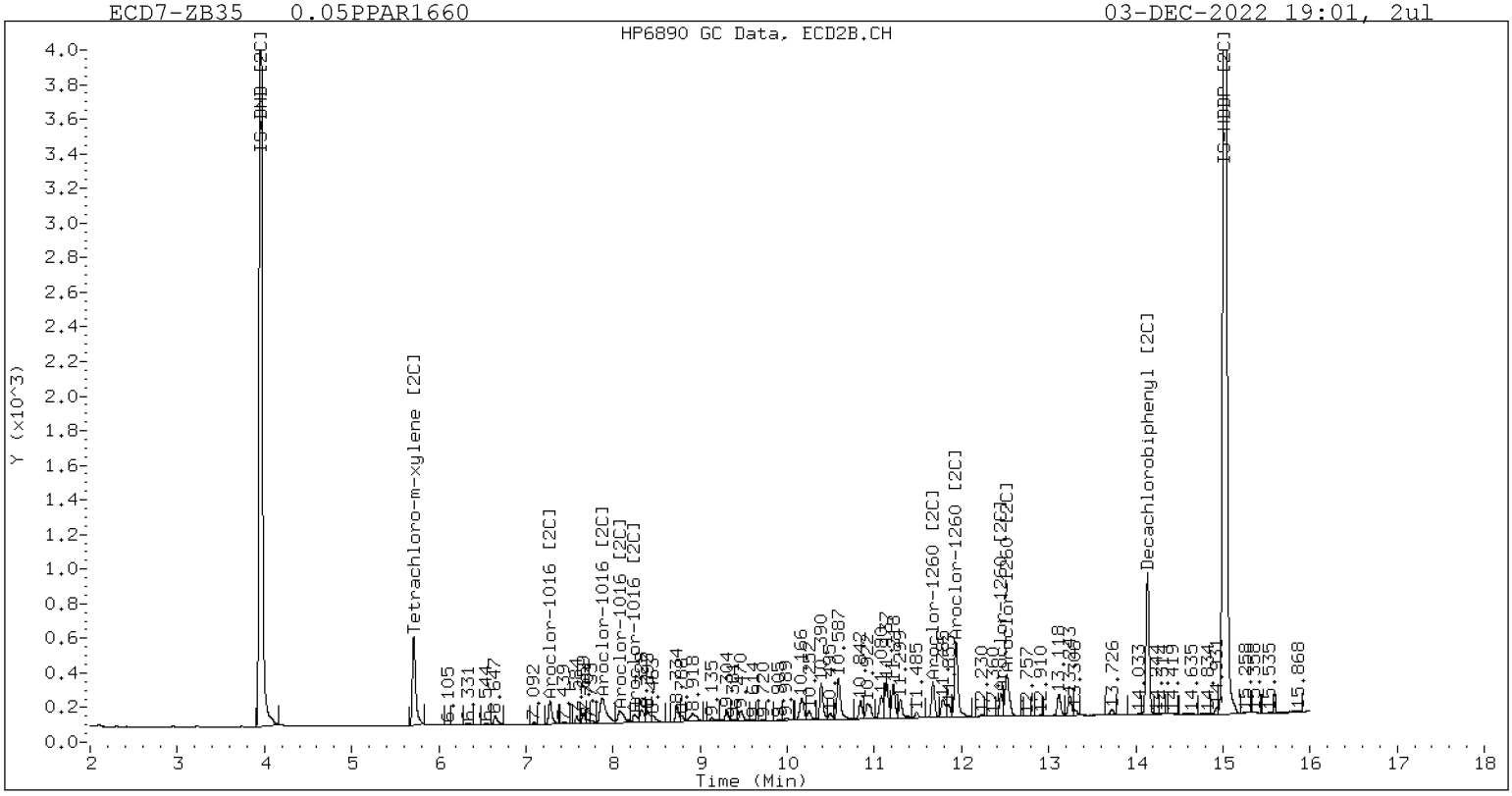
PCB Dual Column Chromatograms

ECD7-ZB5 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.05PPAR1660 03-DEC-2022 19:01, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032214ECD7.D
Data file 2: /221203.b/221203.b/12032214ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:23
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	1010529	5.712	-0.002	531708	152.6	150.7	1.3	Tetrachloro-m-xylene
13.908	-0.001	1103073	14.137	-0.000	836962	144.8	153.1	5.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	467179	4.4
Hexabromobiphenyl	798898	830915	4.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257438	3.3
Hexabromobiphenyl	362541	385067	6.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.291	-0.001	135017	866.4	1	7.276	0.001	112973	858.3
Aroclor-1016	2	7.671	-0.003	458351	911.0	2	7.869	-0.001	252319	888.8
Aroclor-1016	3	7.807	-0.003	183320	804.0	3	8.068	-0.002	103219	846.7
Aroclor-1016	4	8.423	-0.001	135184	930.1	4	8.239	-0.002	63199	985.9
Total Col1Ave (4 peaks):					877.9	Total Col2Ave (4 peaks):				894.9 RPD = 2
Corrected Ave (3 peaks):					860.5	Corrected Ave (3 peaks):				864.6 RPD = 0
CalAmt %D:					-12.2	CalAmt %D:				-10.5
Aroclor-1260	1	11.058	-0.003	277616	917.9	1	11.668	-0.002	180676	888.9
Aroclor-1260	2	11.375	-0.002	293627	938.6	2	11.930	-0.002	450760	883.8
Aroclor-1260	3	11.748	-0.002	769872	936.7	3	12.449	-0.002	129799	955.7
Aroclor-1260	4	12.151	-0.003	405939	969.8	4	12.514	-0.002	308791	908.2
Aroclor-1260	5	12.259	-0.001	161370	941.8	NS	---			----
Total Col1Ave (5 peaks):					941.0	Total Col2Ave (4 peaks):				909.1 RPD = 3
Corrected Ave (4 peaks):					933.7	Corrected Ave (3 peaks):				893.6 RPD = 4
CalAmt %D:					-5.9	CalAmt %D:				-9.1

Total PCB Area Col1 (5.936 - 13.808) = 7995465 Col1 Total PCB = 1.5 ppm*

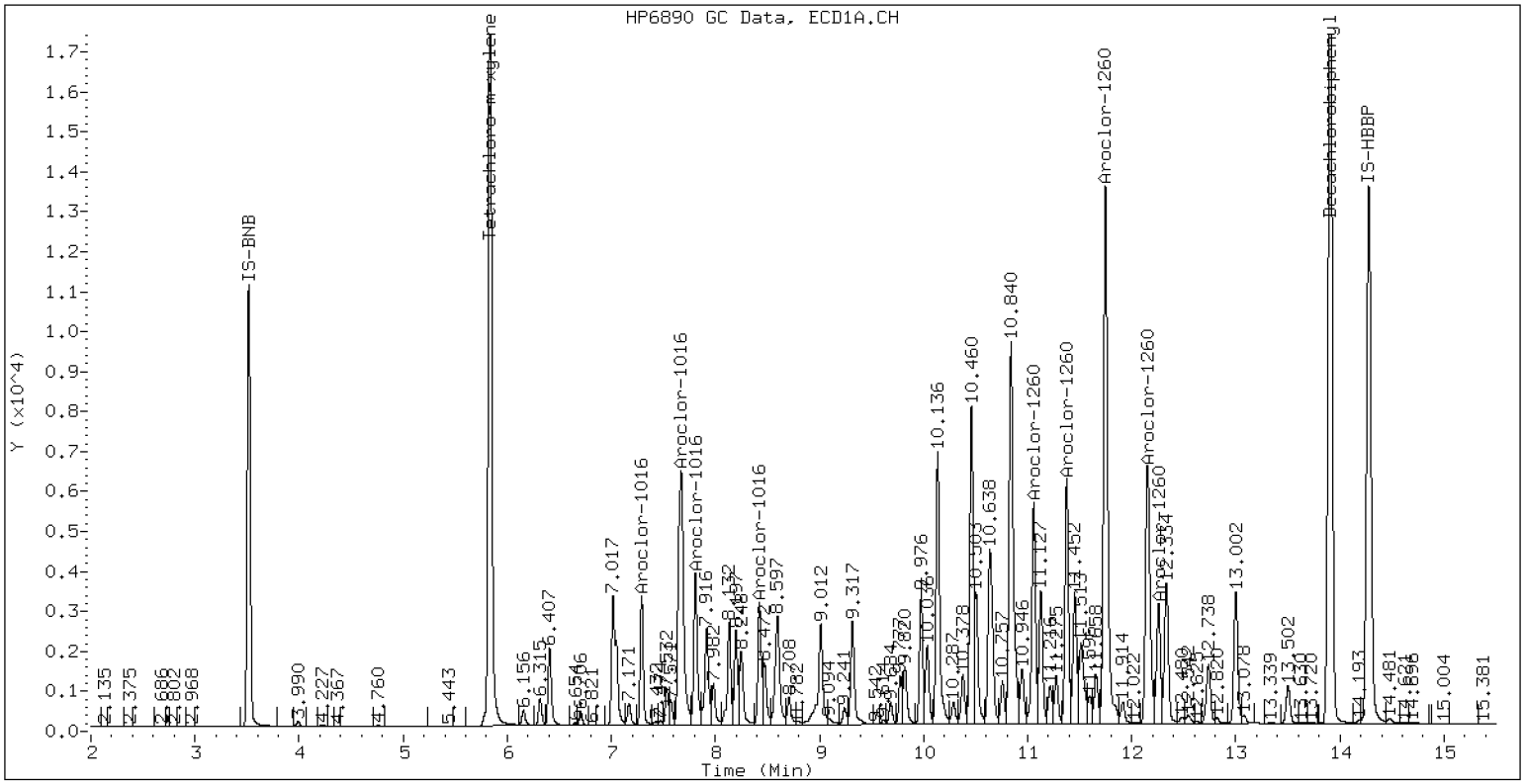
Total PCB Area Col2 (5.936 - 13.808) = 4426537 Col2 Total PCB = 2.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

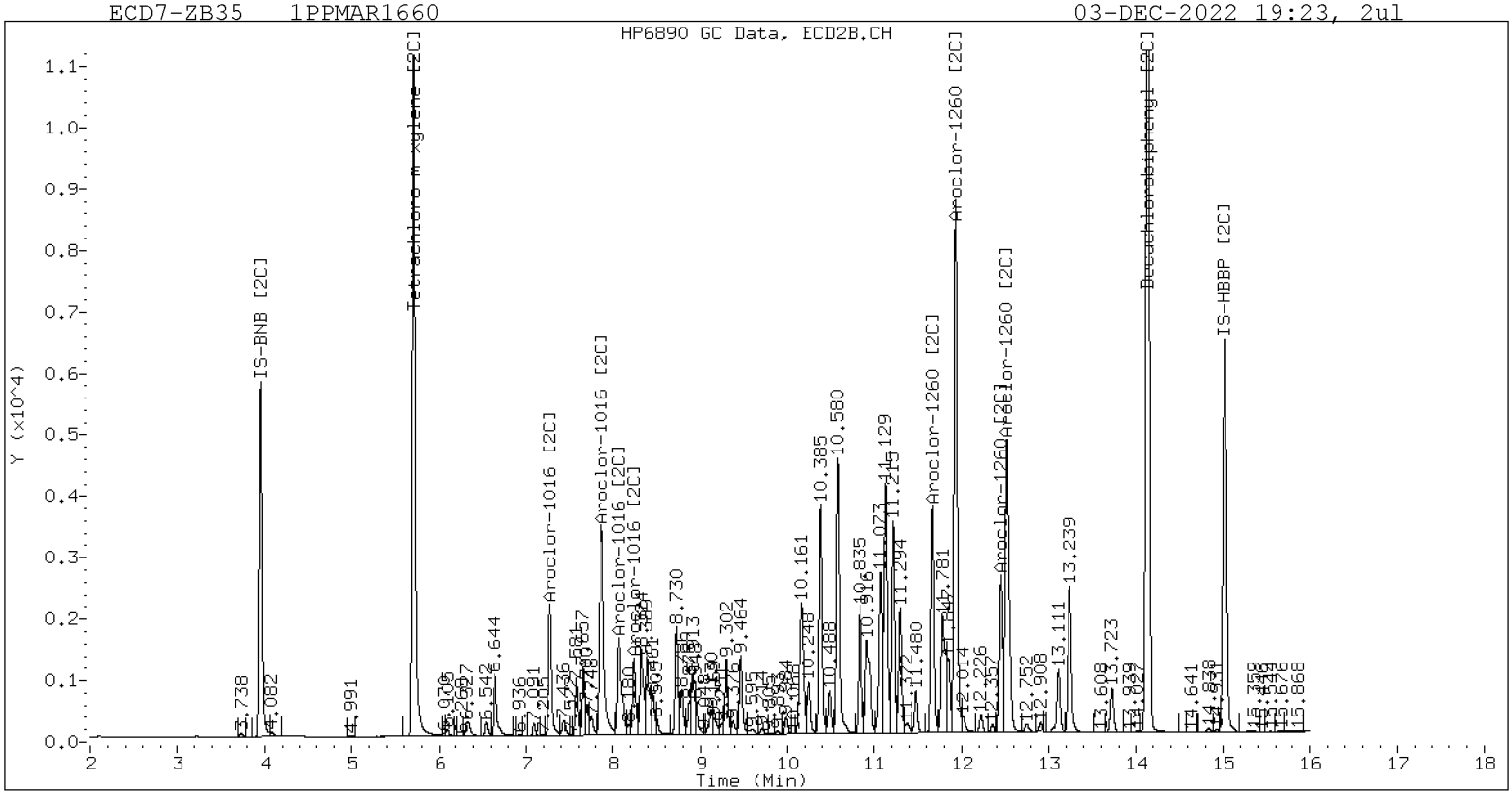
PCB Dual Column Chromatograms

ECD7-ZB5 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 1PPMAR1660 03-DEC-2022 19:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032215ECD7.D
Data file 2: /221203.b/221203.b/12032215ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.1PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 19:44
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	108416	5.713	-0.000	58717	16.7	16.8	0.6	Tetrachloro-m-xylene
13.907	-0.002	126876	14.136	-0.001	91231	16.5	16.6	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	457669	2.2
Hexabromobiphenyl	798898	837264	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254712	2.3
Hexabromobiphenyl	362541	387892	7.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	16631	108.9	1	7.277	0.001	14117	108.4
Aroclor-1016	2	7.680	0.007	52058	105.6	2	7.876	0.006	29792	106.1
Aroclor-1016	3	7.816	0.006	24753	110.8	3	8.076	0.005	12664	105.0
Aroclor-1016	4	8.428	0.004	15027	105.5	4	8.247	0.006	6540	103.1
Total Col1Ave (4 peaks):					107.7	Total Col2Ave (4 peaks):				105.6 RPD = 2
Corrected Ave (3 peaks):					106.7	Corrected Ave (3 peaks):				104.7 RPD = 2
CalAmt %D:					7.7	CalAmt %D:				5.6
Aroclor-1260	1	11.064	0.003	31860	104.5	1	11.671	0.002	21501	105.0
Aroclor-1260	2	11.381	0.003	32914	104.4	2	11.935	0.003	54902	106.9
Aroclor-1260	3	11.756	0.006	88153	106.4	3	12.453	0.002	14336	104.8
Aroclor-1260	4	12.159	0.005	44477	105.5	4	12.520	0.004	36244	105.8
Aroclor-1260	5	12.262	0.002	18369	106.4	NS	---			----
Total Col1Ave (5 peaks):					105.4	Total Col2Ave (4 peaks):				105.6 RPD = 0
Corrected Ave (4 peaks):					105.2	Corrected Ave (3 peaks):				105.2 RPD = 0
CalAmt %D:					5.4	CalAmt %D:				5.6

Total PCB Area Col1 (5.936 - 13.808) = 933356 Col1 Total PCB = 0.2 ppm*

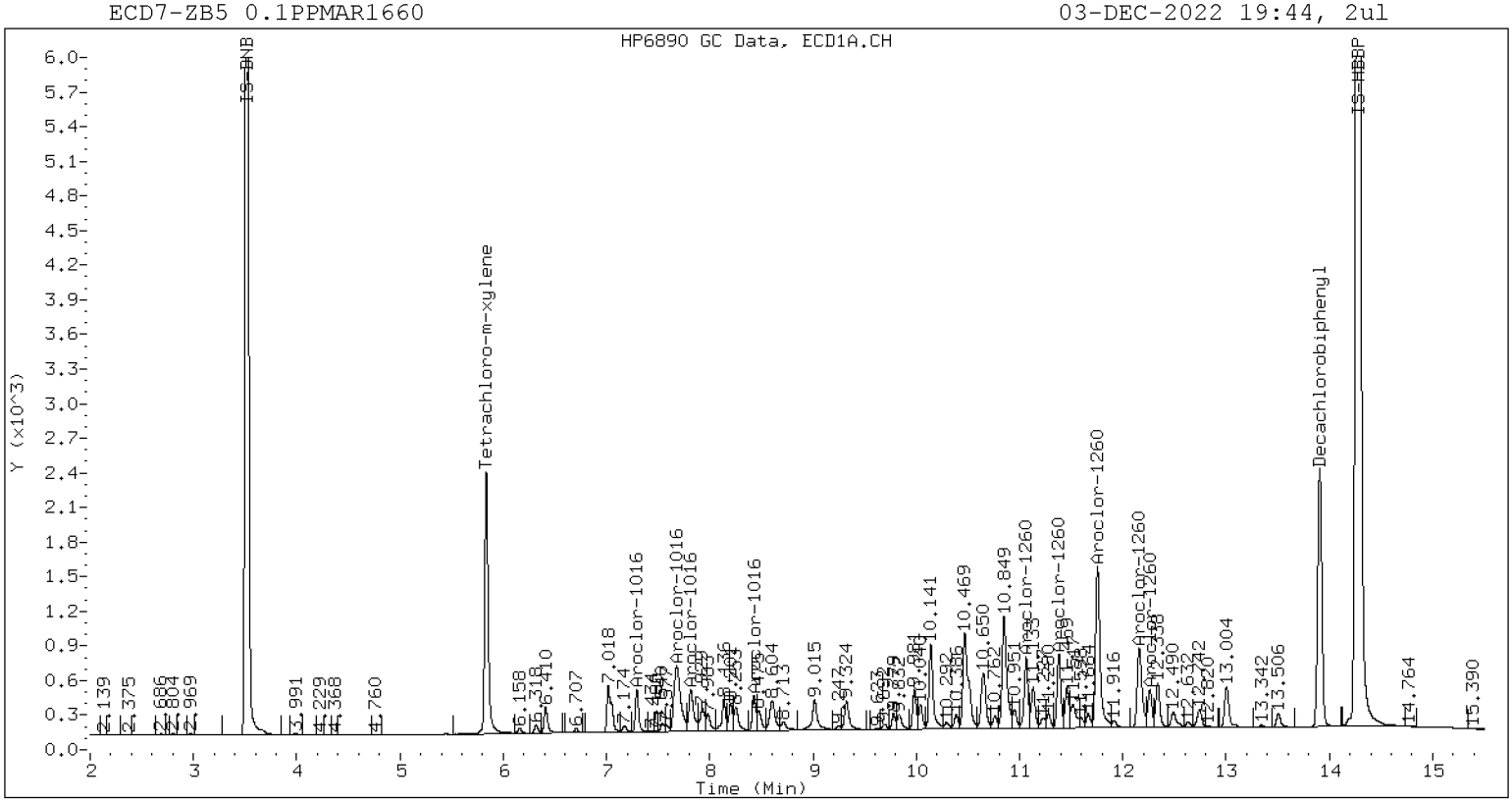
Total PCB Area Col2 (5.936 - 13.808) = 523507 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

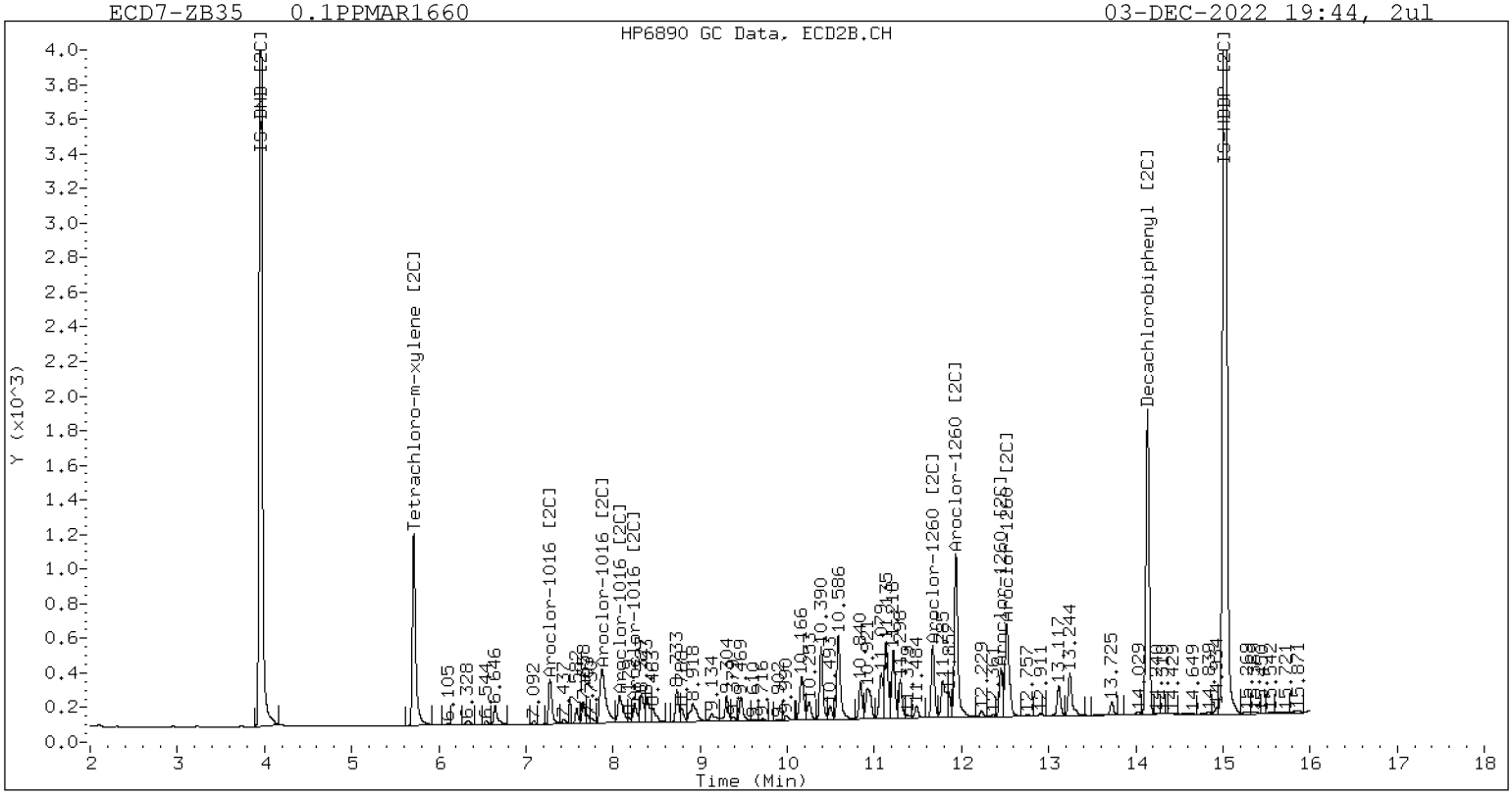
PCB Dual Column Chromatograms

ECD7-ZB5 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.1PPMAR1660 03-DEC-2022 19:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032216ECD7.D
Data file 2: /221203.b/221203.b/12032216ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: 0.5PPMAR1660
Client ID:
Injection Date: 03-DEC-2022 20:05
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	510310	5.711	-0.002	273850	78.2	77.7	0.7	Tetrachloro-m-xylene
13.908	-0.001	570893	14.137	-0.000	431489	74.4	77.0	3.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	460250	2.8
Hexabromobiphenyl	798898	837210	4.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257013	3.2
Hexabromobiphenyl	362541	394788	8.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.292	0.000	73008	475.5	1	7.275	0.000	61467	467.8
Aroclor-1016	2	7.674	0.000	243498	491.2	2	7.870	0.000	135395	477.7
Aroclor-1016	3	7.810	0.000	100165	445.9	3	8.070	0.000	55783	458.3
Aroclor-1016	4	8.424	0.000	70493	492.3	4	8.241	0.000	32578	509.0
Total Col1Ave (4 peaks):					476.3	Total Col2Ave (4 peaks):				478.2 RPD = 0
Corrected Ave (3 peaks):					470.9	Corrected Ave (3 peaks):				467.9 RPD = 1
CalAmt %D:					-4.7	CalAmt %D:				-4.4
Aroclor-1260	1	11.062	0.000	148089	485.9	1	11.669	0.000	95983	460.6
Aroclor-1260	2	11.377	0.000	154542	490.3	2	11.933	0.000	249045	476.3
Aroclor-1260	3	11.750	0.000	401802	485.2	3	12.451	0.000	66824	479.9
Aroclor-1260	4	12.154	0.000	212604	504.1	4	12.517	0.000	165020	473.4
Aroclor-1260	5	12.260	0.000	85762	496.7	NS	---			----
Total Col1Ave (5 peaks):					492.5	Total Col2Ave (4 peaks):				472.5 RPD = 4
Corrected Ave (4 peaks):					489.5	Corrected Ave (3 peaks):				470.1 RPD = 4
CalAmt %D:					-1.5	CalAmt %D:				-5.5

Total PCB Area Col1 (5.936 - 13.808) = 4267475 Col1 Total PCB = 0.8 ppm*

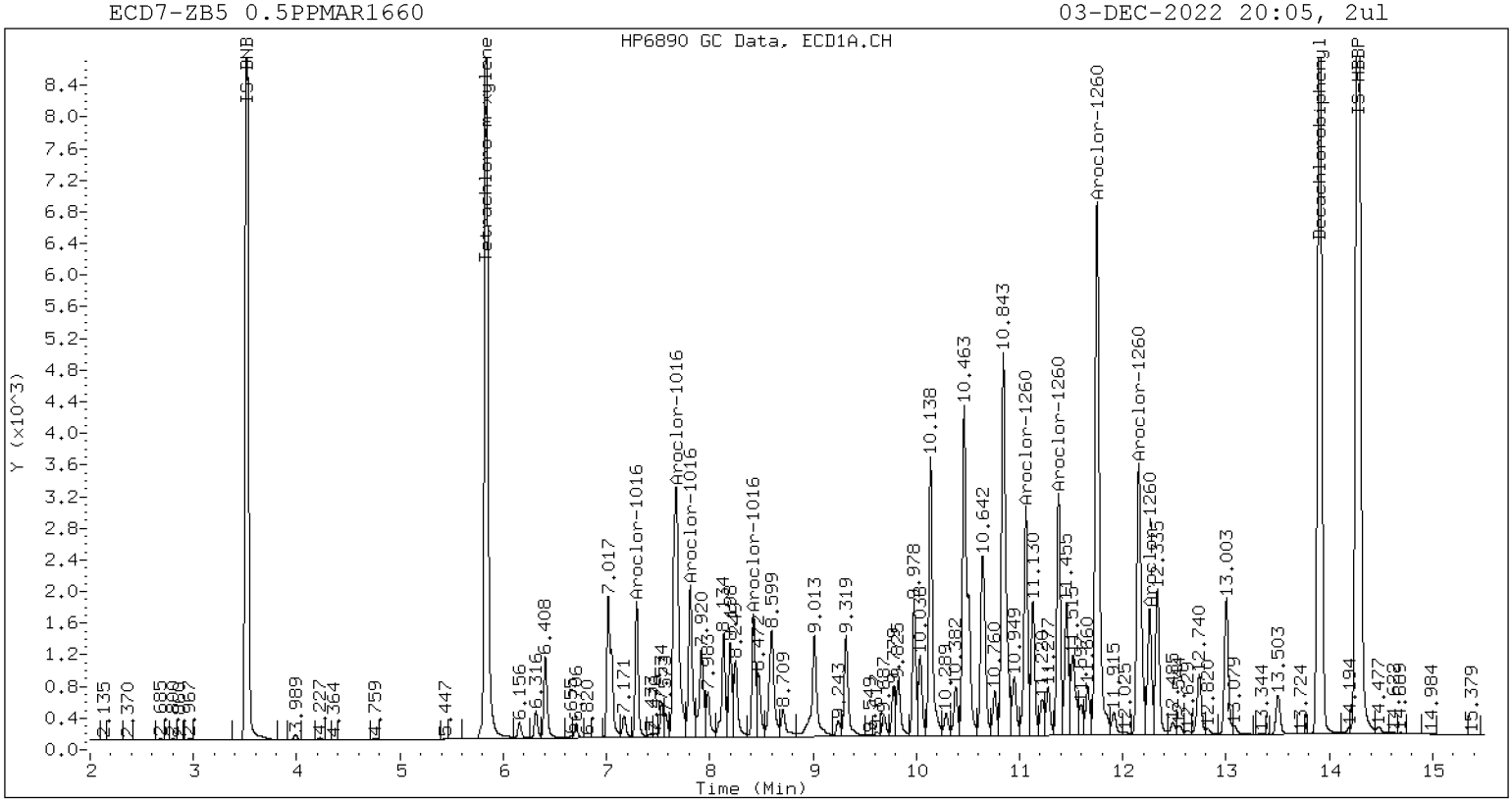
Total PCB Area Col2 (5.936 - 13.808) = 2352394 Col2 Total PCB = 1.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

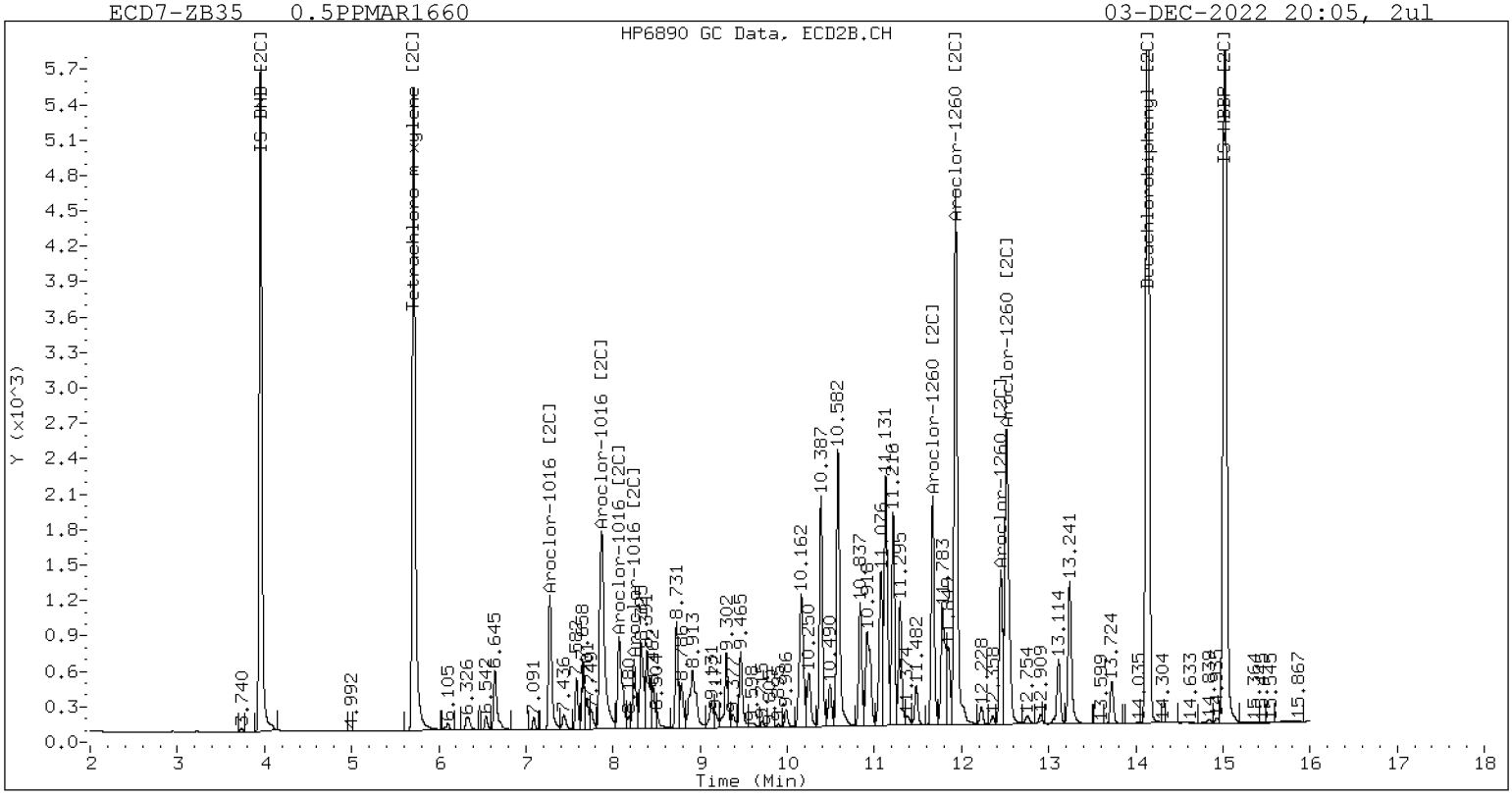
PCB Dual Column Chromatograms

ECD7-ZB5 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 0.5PPMAR1660 03-DEC-2022 20:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032217ECD7.D
Data file 2: /221203.b/221203.b/12032217ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242
Client ID:
Injection Date: 03-DEC-2022 20:26
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243461	5.713	-0.000	130768	37.3	37.1	0.4	Tetrachloro-m-xylene
13.908	-0.001	300671	14.137	0.000	218277	38.5	38.4	0.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	461030	3.0
Hexabromobiphenyl	798898	851899	6.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	257053	3.2
Hexabromobiphenyl	362541	400012	10.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	32669	250.0	1	7.277	0.000	27198	250.0
Aroclor-1242	2	7.680	0.000	103727	250.0	2	7.875	0.000	57737	250.0
Aroclor-1242	3	8.427	0.000	29844	250.0	3	9.178	0.000	18627	250.0
Aroclor-1242	4	9.030	0.000	61970	250.0	4	9.605	0.000	22388	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 766457 Col1 Total PCB = 0.1 ppm*

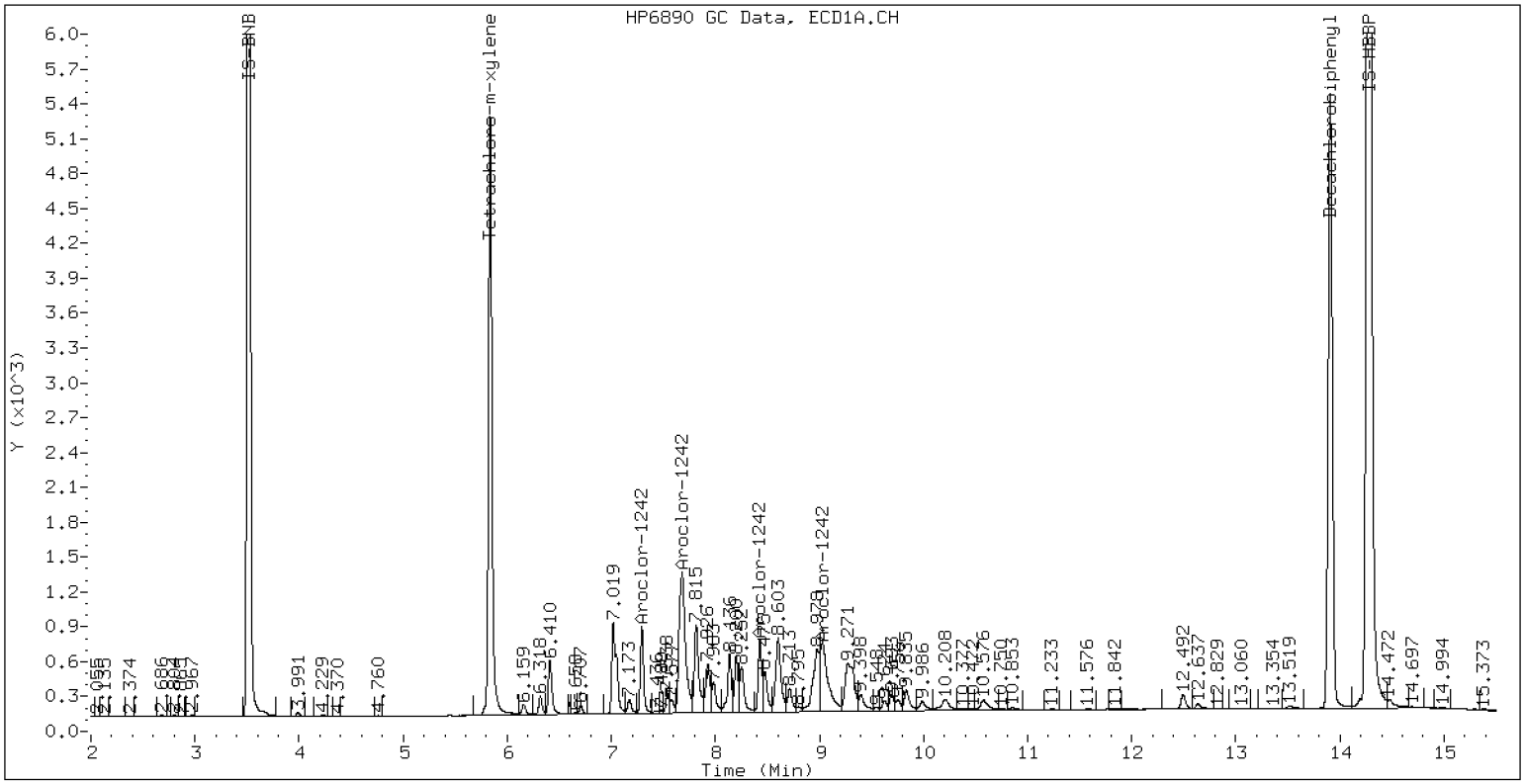
Total PCB Area Col2 (5.936 - 13.808) = 407128 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

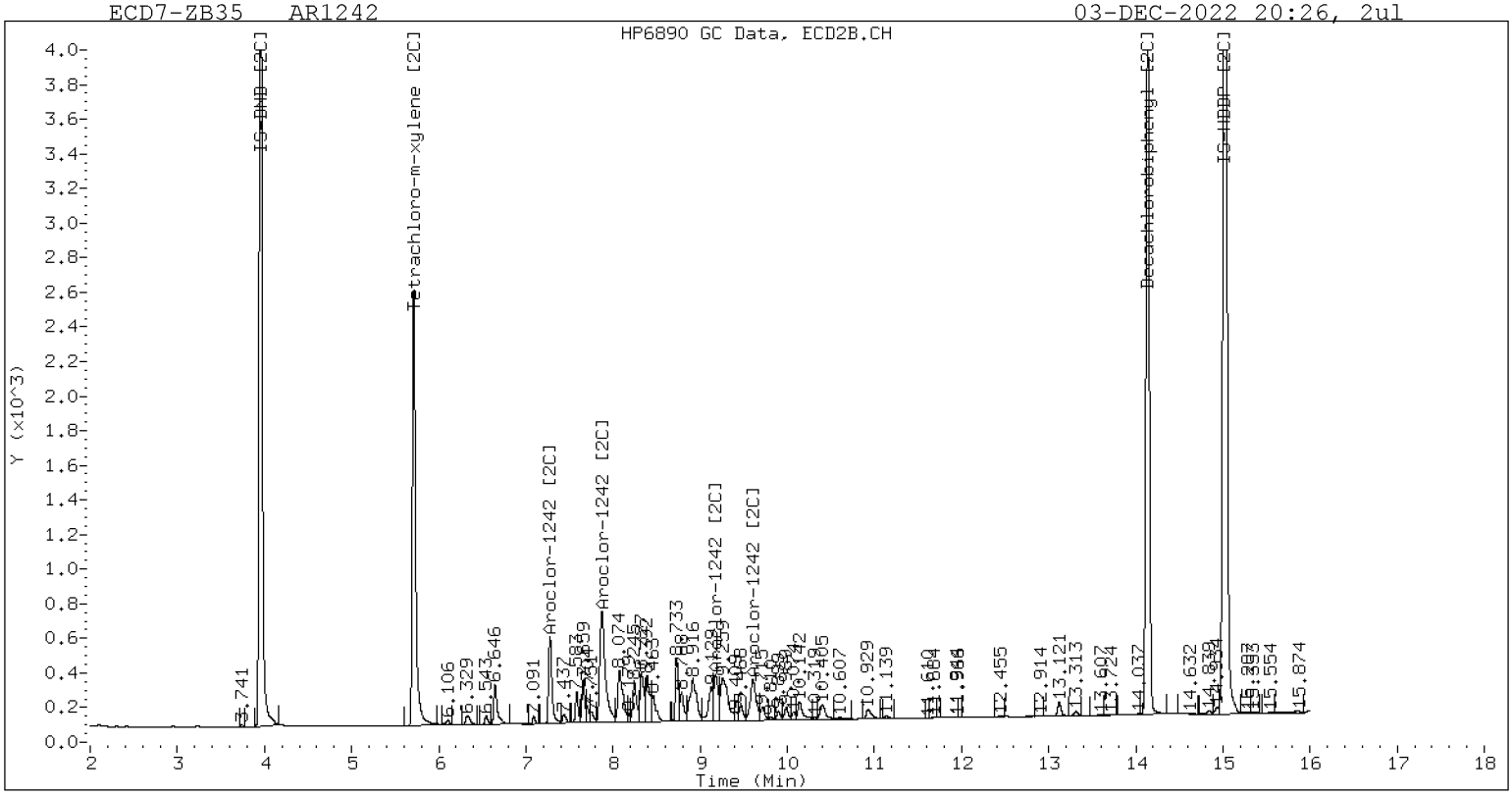
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242 03-DEC-2022 20:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242 03-DEC-2022 20:26, 2ul

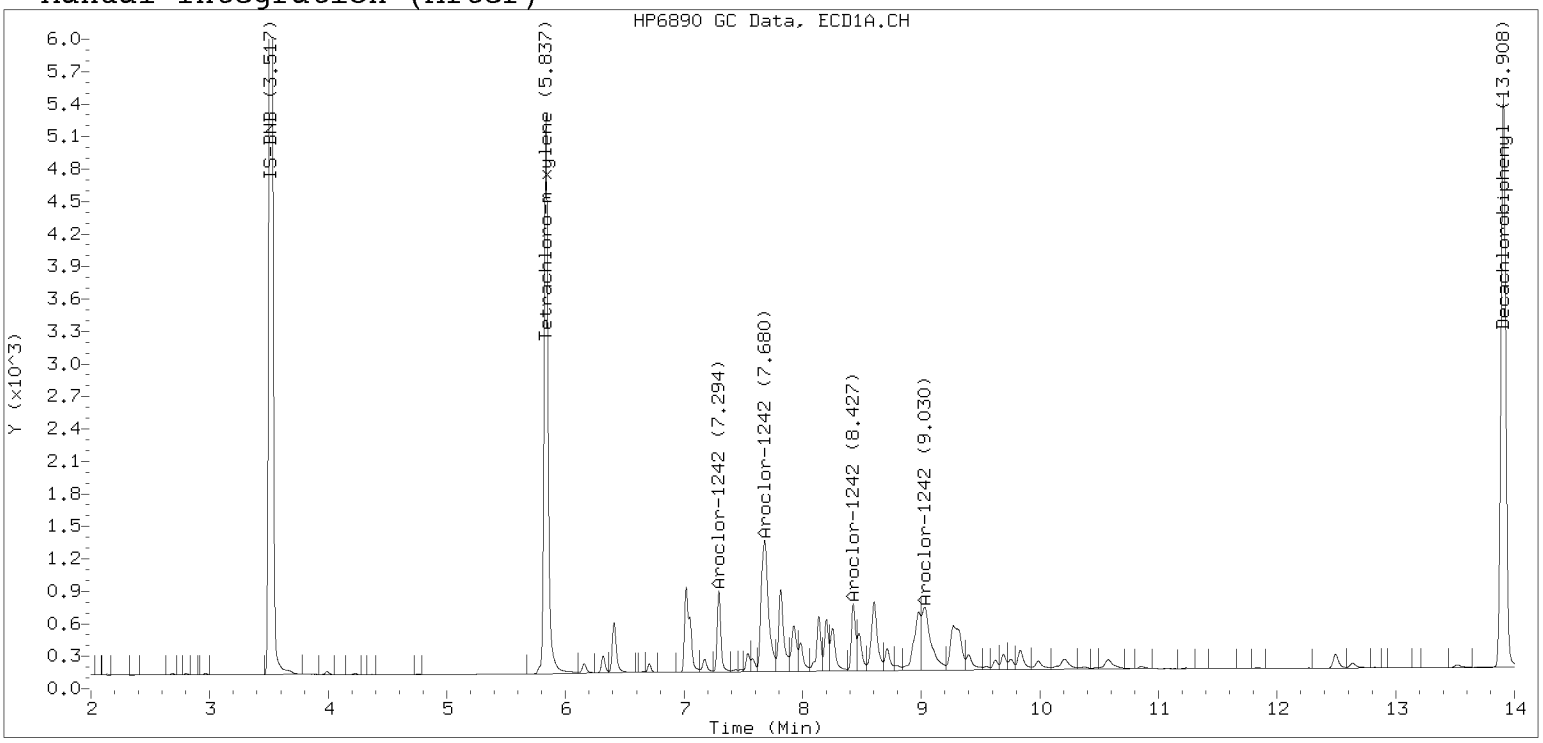


ZB-35 Manual Integration: YES

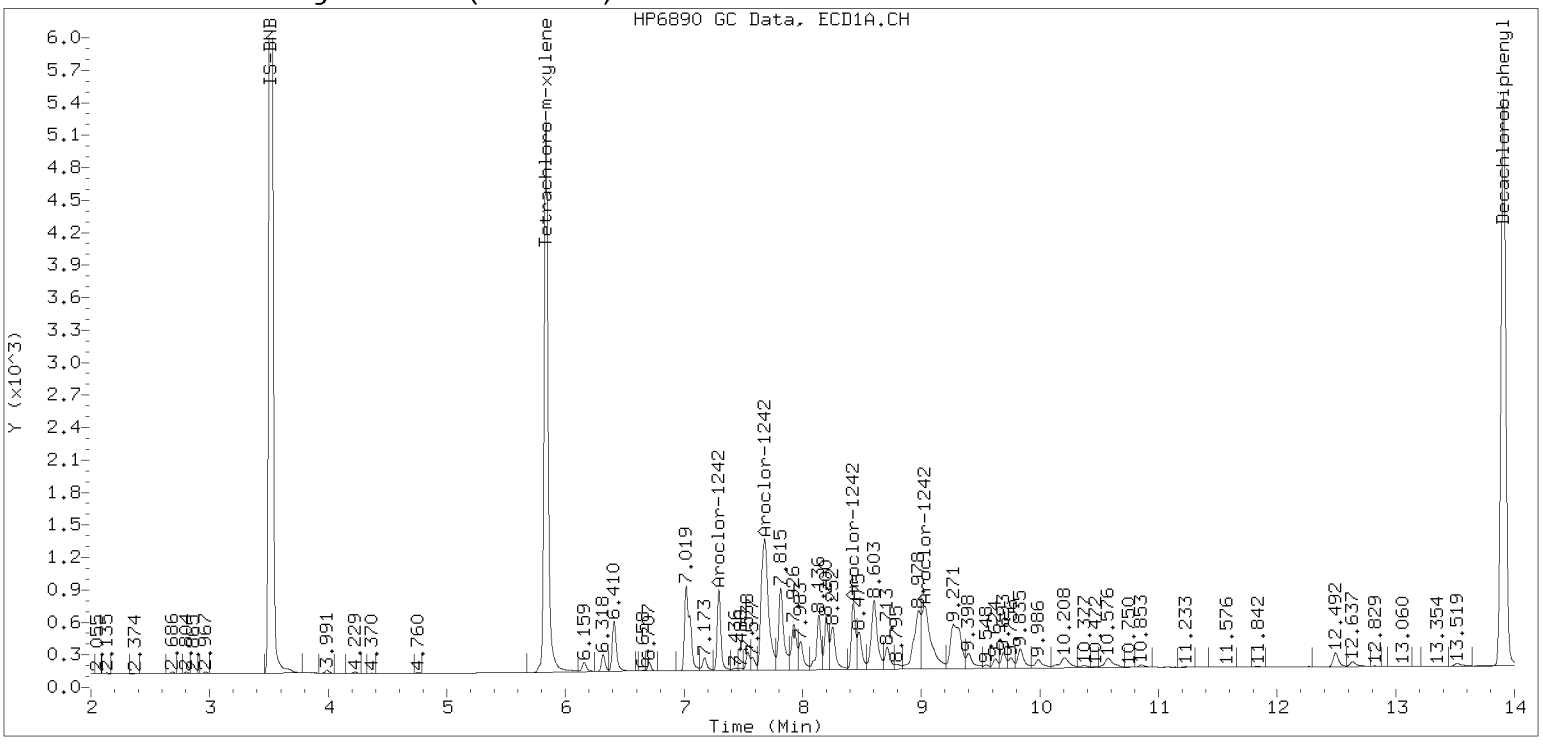
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/221203.b/12032217ECD7.D Injection Date: 03-DEC-2022 20:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032218ECD7.D
Data file 2: /221203.b/221203.b/12032218ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248
Client ID:
Injection Date: 03-DEC-2022 20:48
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.001	231737	5.713	-0.000	124430	36.1	35.8	0.8	Tetrachloro-m-xylene
13.907	-0.001	296478	14.137	0.000	215774	38.9	38.1	1.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	453370	1.3
Hexabromobiphenyl	798898	832030	4.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	253684	1.8
Hexabromobiphenyl	362541	398468	9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	0.000	48733	250.0	1	8.326	0.000	25909	250.0
Aroclor-1248	2	8.603	0.000	62221	250.0	2	8.733	0.000	27250	250.0
Aroclor-1248	3	9.023	0.000	111933	250.0	3	9.177	0.000	33147	250.0
Aroclor-1248	4	9.315	0.000	54837	250.0	4	9.602	0.000	38911	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 964384 Col1 Total PCB = 0.2 ppm*

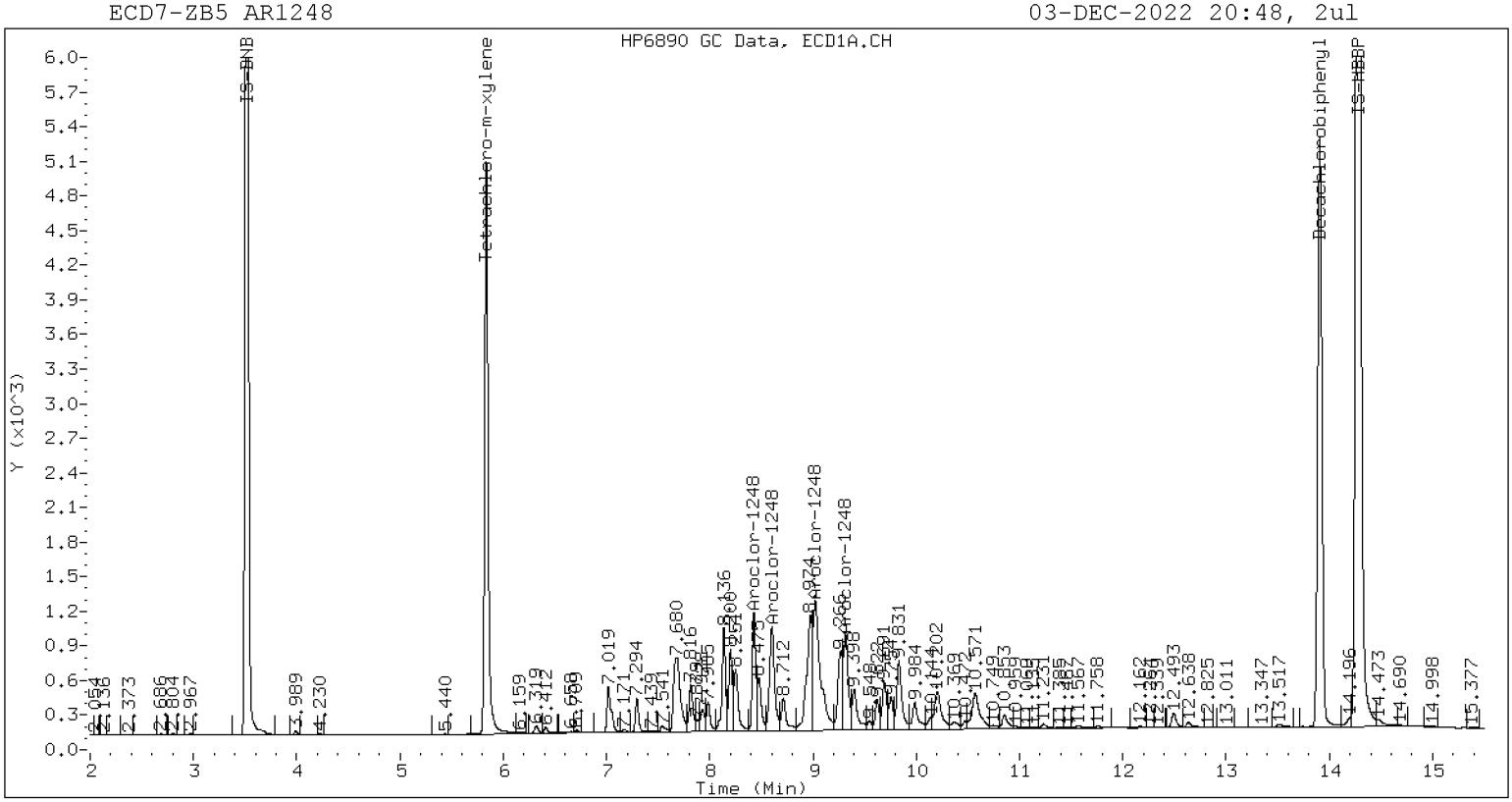
Total PCB Area Col2 (5.936 - 13.808) = 514558 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

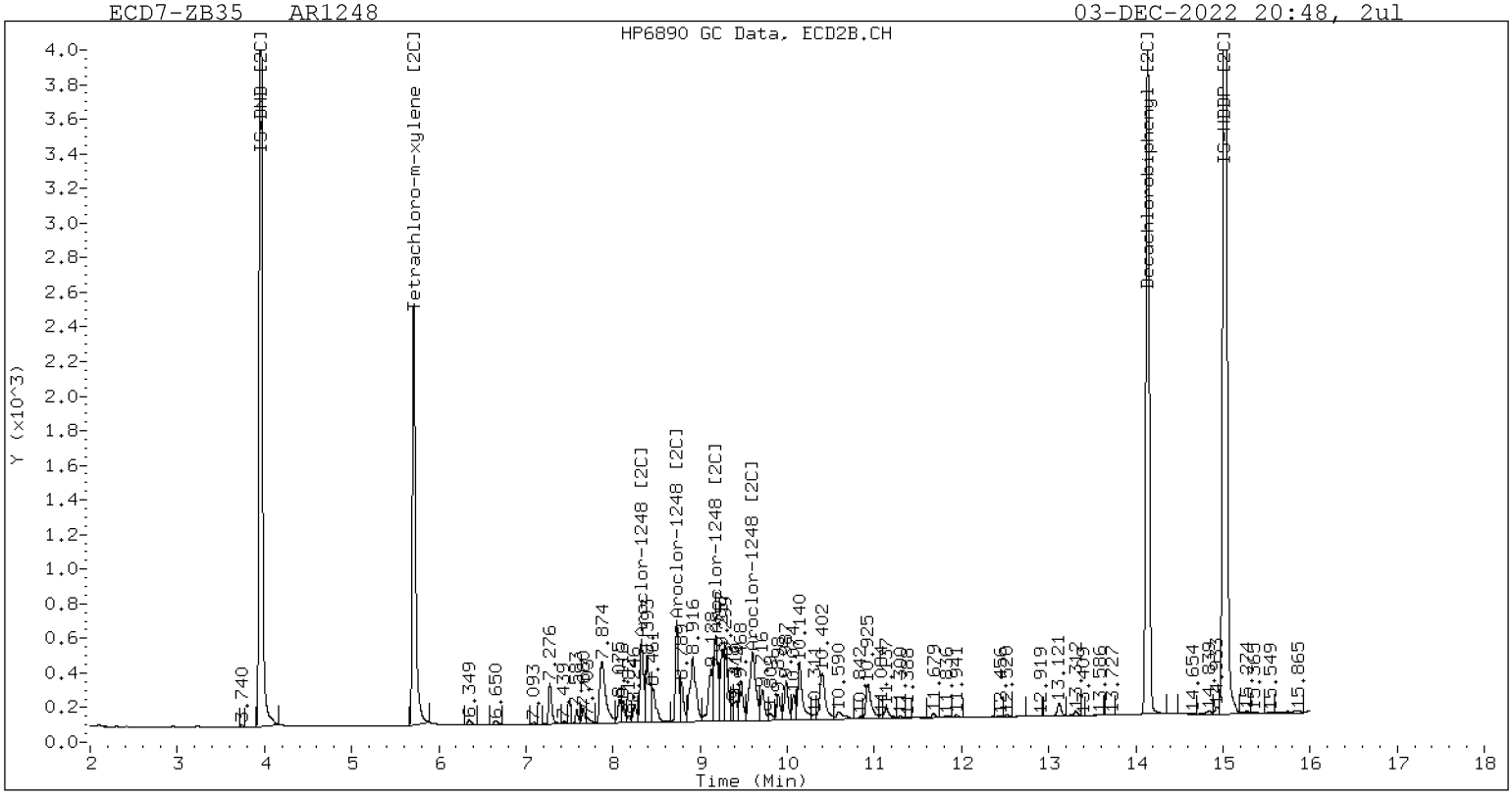
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248 03-DEC-2022 20:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248 03-DEC-2022 20:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032219ECD7.D
Data file 2: /221203.b/221203.b/12032219ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254
Client ID:
Injection Date: 03-DEC-2022 21:09
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	235742	5.713	-0.000	129532	36.3	36.8	1.4	Tetrachloro-m-xylene
13.908	-0.000	304424	14.136	-0.001	220843	39.5	38.4	2.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458200	2.4
Hexabromobiphenyl	798898	841638	5.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	256547	3.0
Hexabromobiphenyl	362541	405063	11.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.319	0.000	100858	250.0	1	9.467	0.000	41352	250.0
Aroclor-1254	2	9.397	0.000	39224	250.0	2	9.987	0.000	33246	250.0
Aroclor-1254	3	9.688	0.000	63702	250.0	3	10.139	0.000	71462	250.0
Aroclor-1254	4	9.828	0.000	124170	250.0	4	10.389	0.000	74009	250.0
Aroclor-1254	5	10.194	0.000	85117	250.0	5	10.586	0.000	35695	250.0

Total Col1Ave (5 peaks): 250.0 Total Col2Ave (5 peaks): 250.0 RPD = 0

Corrected Ave (4 peaks): 250.0 Corrected Ave (4 peaks): 250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1310899 Col1 Total PCB = 0.2 ppm*

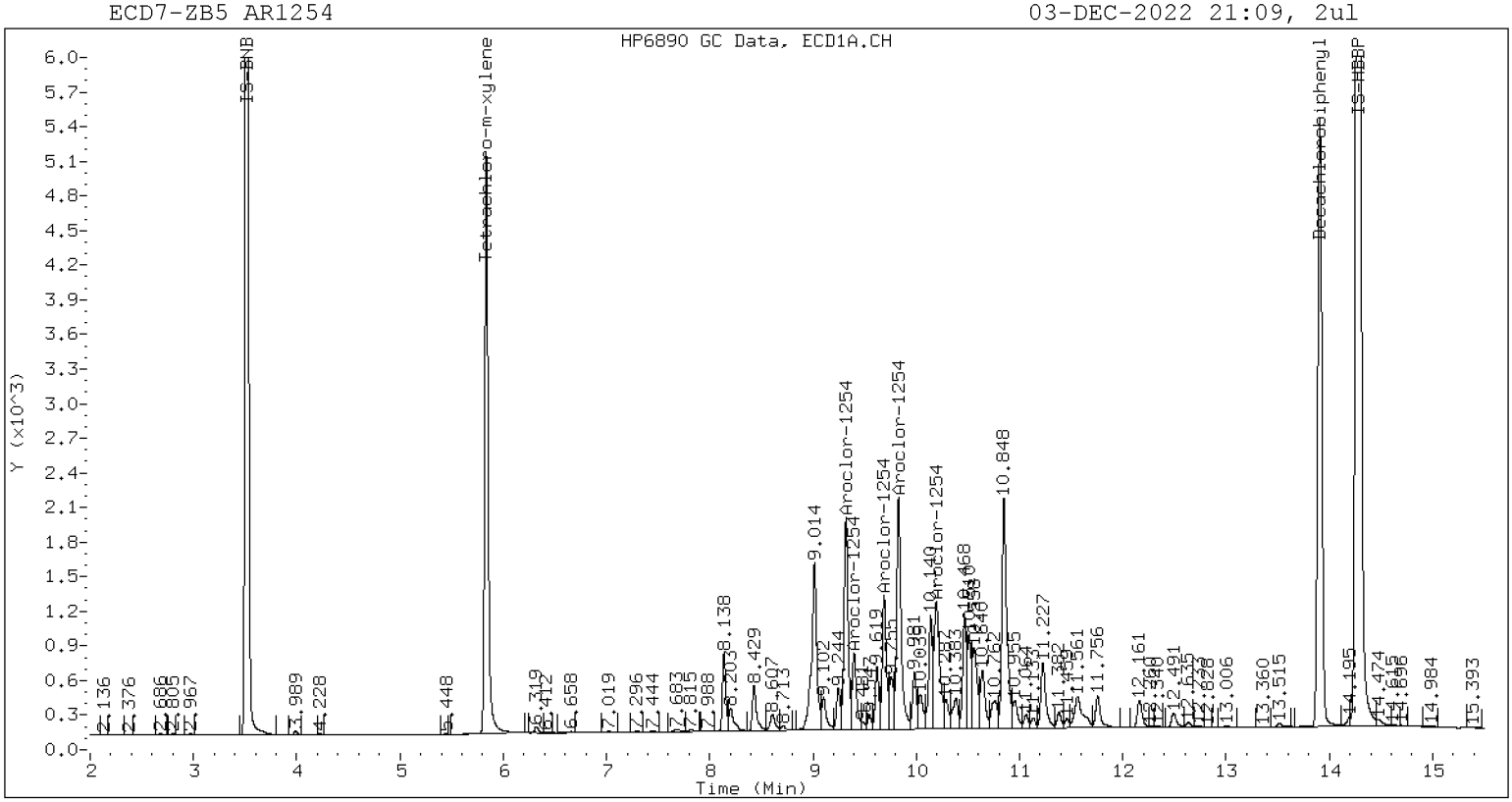
Total PCB Area Col2 (5.936 - 13.808) = 697760 Col2 Total PCB = 0.4 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

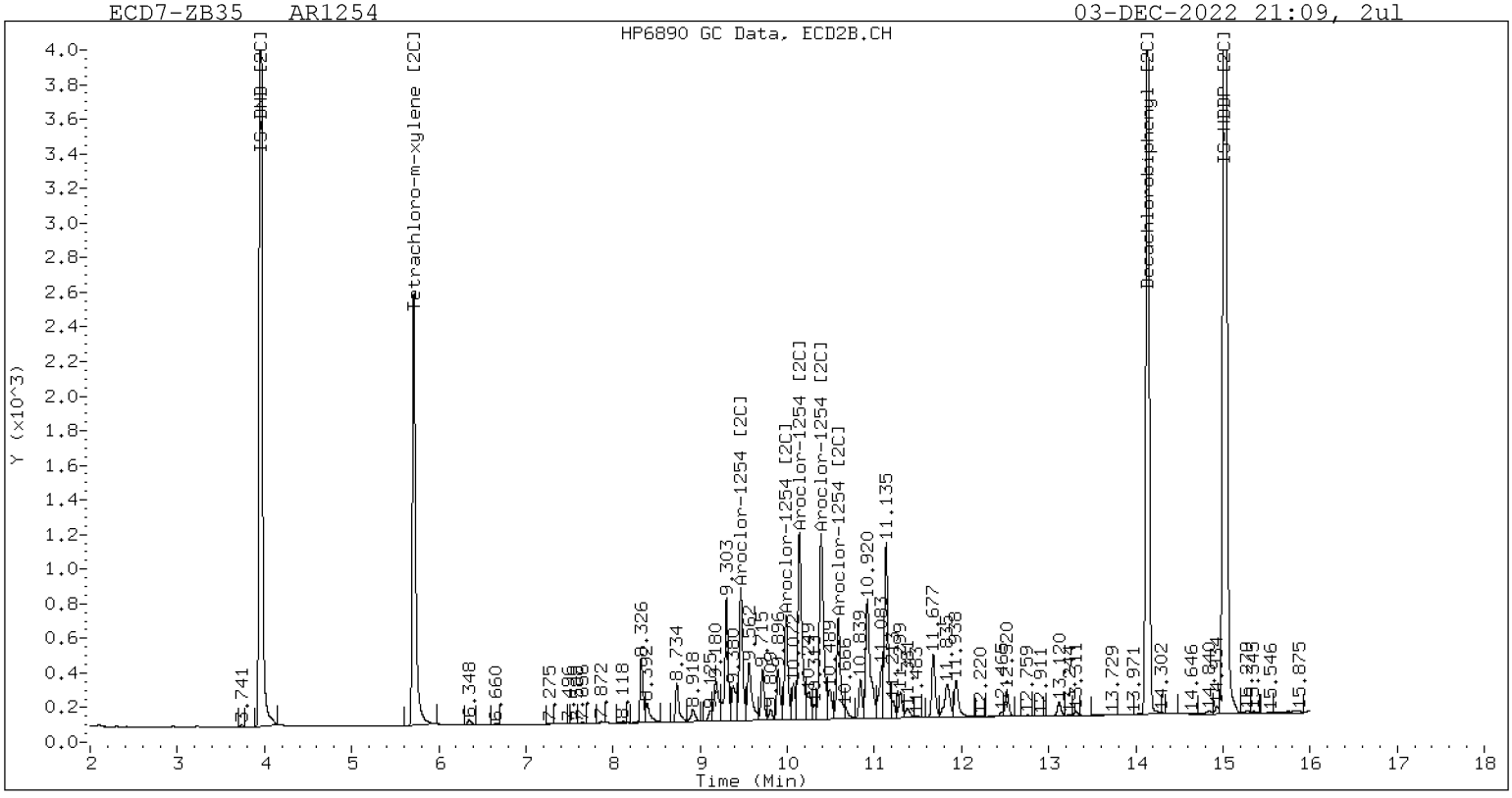
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254 03-DEC-2022 21:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254 03-DEC-2022 21:09, 2ul



ZB-35 Manual Integration: YES

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032220ECD7.D
Data file 2: /221203.b/221203.b/12032220ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162
Client ID:
Injection Date: 03-DEC-2022 21:30
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.835	-0.001	241351	5.713	-0.001	129143	36.5	36.2	0.7	Tetrachloro-m-xylene
13.908	0.000	313862	14.136	-0.001	226219	40.2	38.7	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	466944	4.3
Hexabromobiphenyl	798898	850987	6.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	260026	4.4
Hexabromobiphenyl	362541	412003	13.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.760	0.000	9650	250.0	1	4.987	0.000	5486	250.0
Aroclor-1221	2	6.159	0.000	17000	250.0	2	6.322	0.000	10456	250.0
Aroclor-1221	3	6.409	0.000	39219	250.0	3	6.645	0.000	17596	250.0
Total Col1Ave (3 peaks):					250.0	Total Col2Ave (3 peaks):				250.0 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.848	0.000	71145	250.0	1	11.217	0.000	78317	250.0
Aroclor-1262	2	12.263	0.000	110609	250.0	2	11.670	0.000	67831	250.0
Aroclor-1262	3	12.337	0.000	118127	250.0	3	12.451	0.000	74822	250.0
Aroclor-1262	4	13.005	0.000	94805	250.0	4	12.519	0.000	117202	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1878739 Col1 Total PCB = 0.3 ppm*

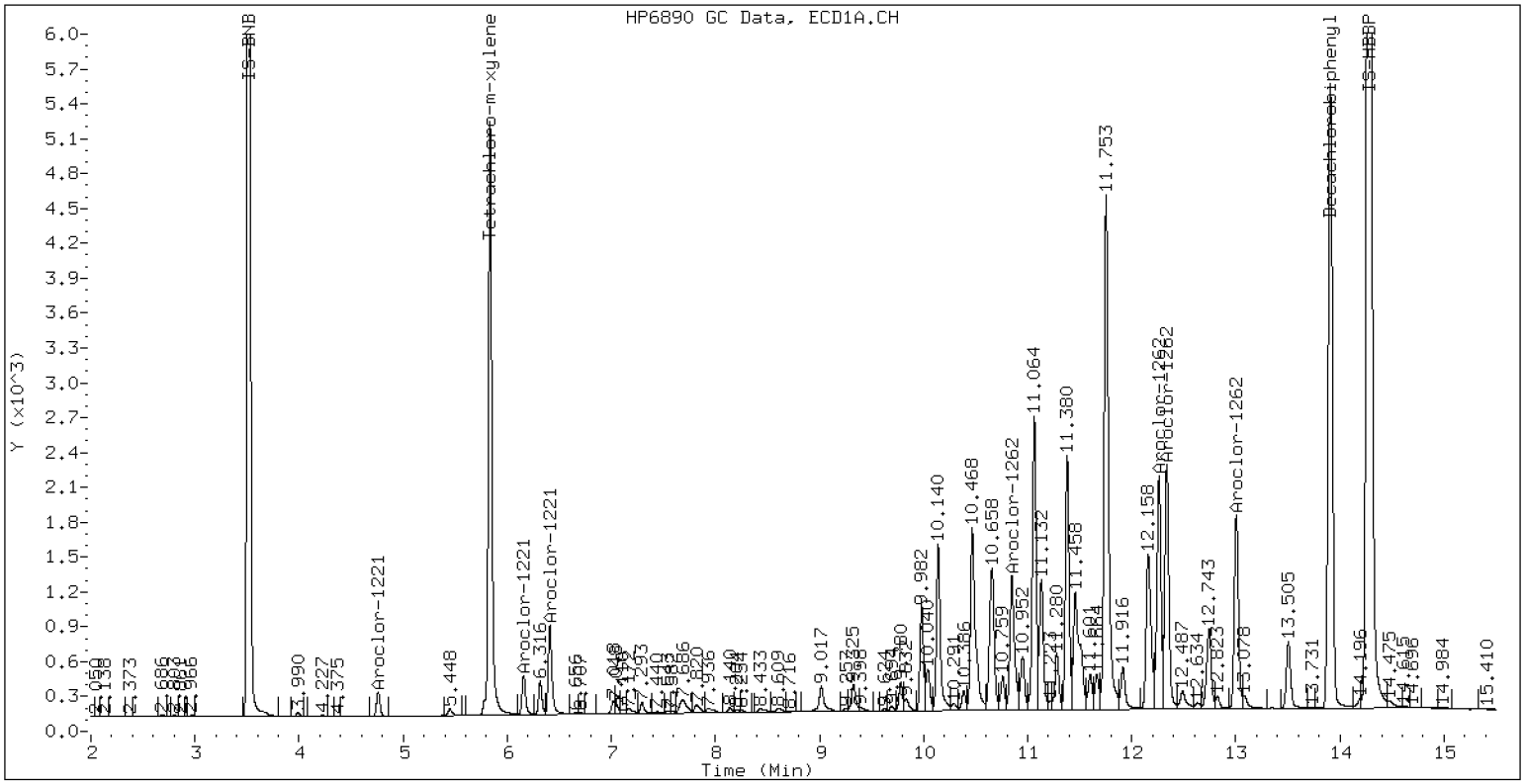
Total PCB Area Col2 (5.936 - 13.808) = 1073324 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

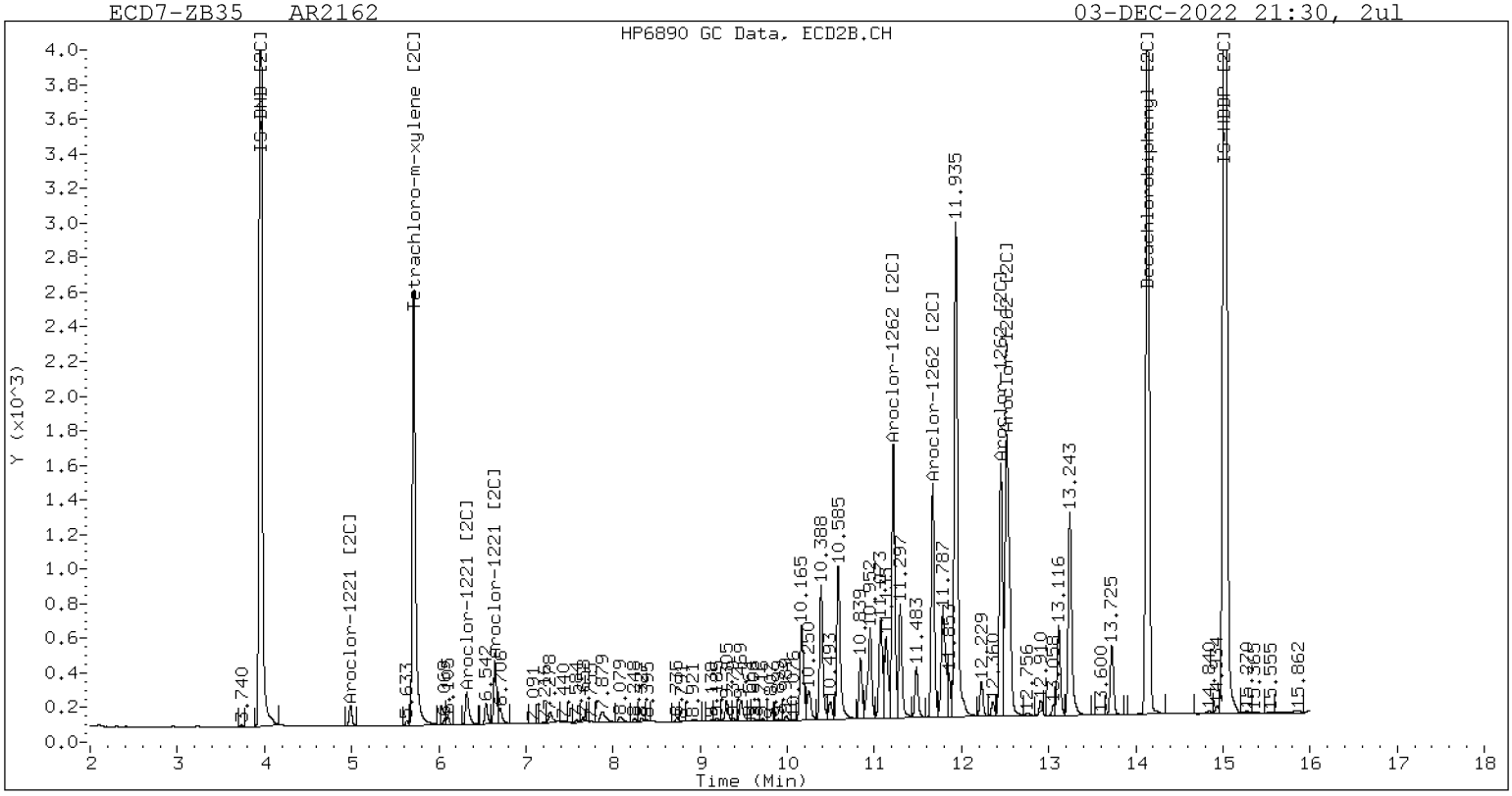
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162 03-DEC-2022 21:30, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162 03-DEC-2022 21:30, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032221ECD7.D
Data file 2: /221203.b/221203.b/12032221ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268
Client ID:
Injection Date: 03-DEC-2022 21:52
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	243663	5.713	0.000	131067	37.5	37.4	0.3	Tetrachloro-m-xylene
13.908	0.000	449152	14.137	0.000	328563	57.2	55.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	458589	2.4
Hexabromobiphenyl	798898	855928	7.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255655	2.6
Hexabromobiphenyl	362541	413793	14.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.761	0.000	5704	250.0	1	4.989	0.000	3108	250.0
Aroclor-1232	2	6.160	0.000	12048	250.0	2	7.277	0.000	15872	250.0
Aroclor-1232	3	7.684	0.000	54107	250.0	3	7.876	0.000	31029	250.0
Aroclor-1232	4	8.606	0.000	22956	250.0	4	8.734	0.000	8413	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0
Aroclor-1268	1	12.262	0.000	299378	250.0	1	12.450	0.000	195273	250.0
Aroclor-1268	2	12.335	0.000	292877	250.0	2	12.517	0.000	200224	250.0
Aroclor-1268	3	12.716	0.000	240046	250.0	3	12.910	0.000	74248	250.0
Aroclor-1268	4	13.505	0.000	732880	250.0	4	13.726	0.000	534323	250.0
Total Col1Ave (4 peaks):					250.0	Total Col2Ave (4 peaks):				250.0 RPD = 0
Corrected Ave (3 peaks):					250.0	Corrected Ave (3 peaks):				250.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2400701 Col1 Total PCB = 0.5 ppm*

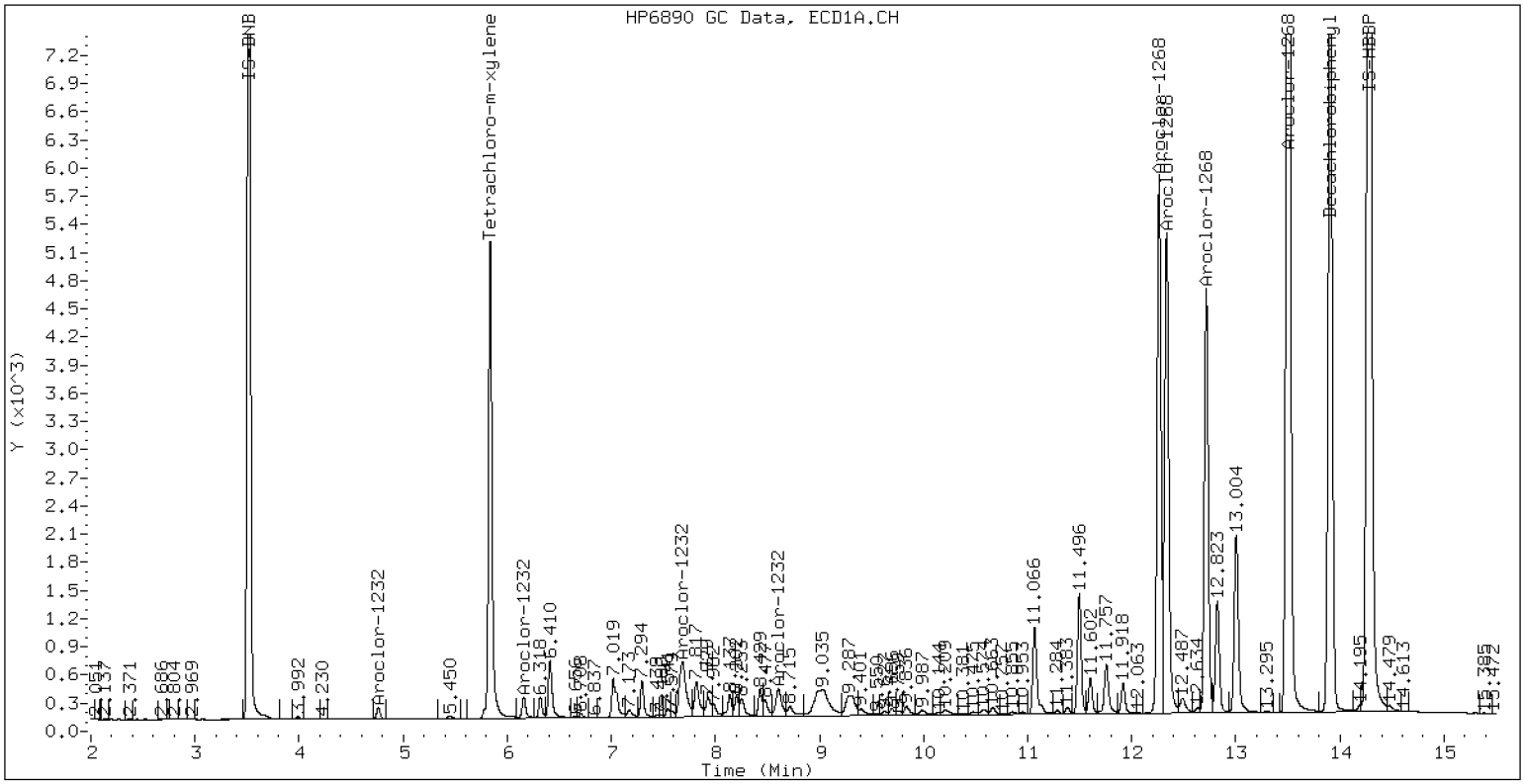
Total PCB Area Col2 (5.936 - 13.808) = 1468669 Col2 Total PCB = 0.8 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

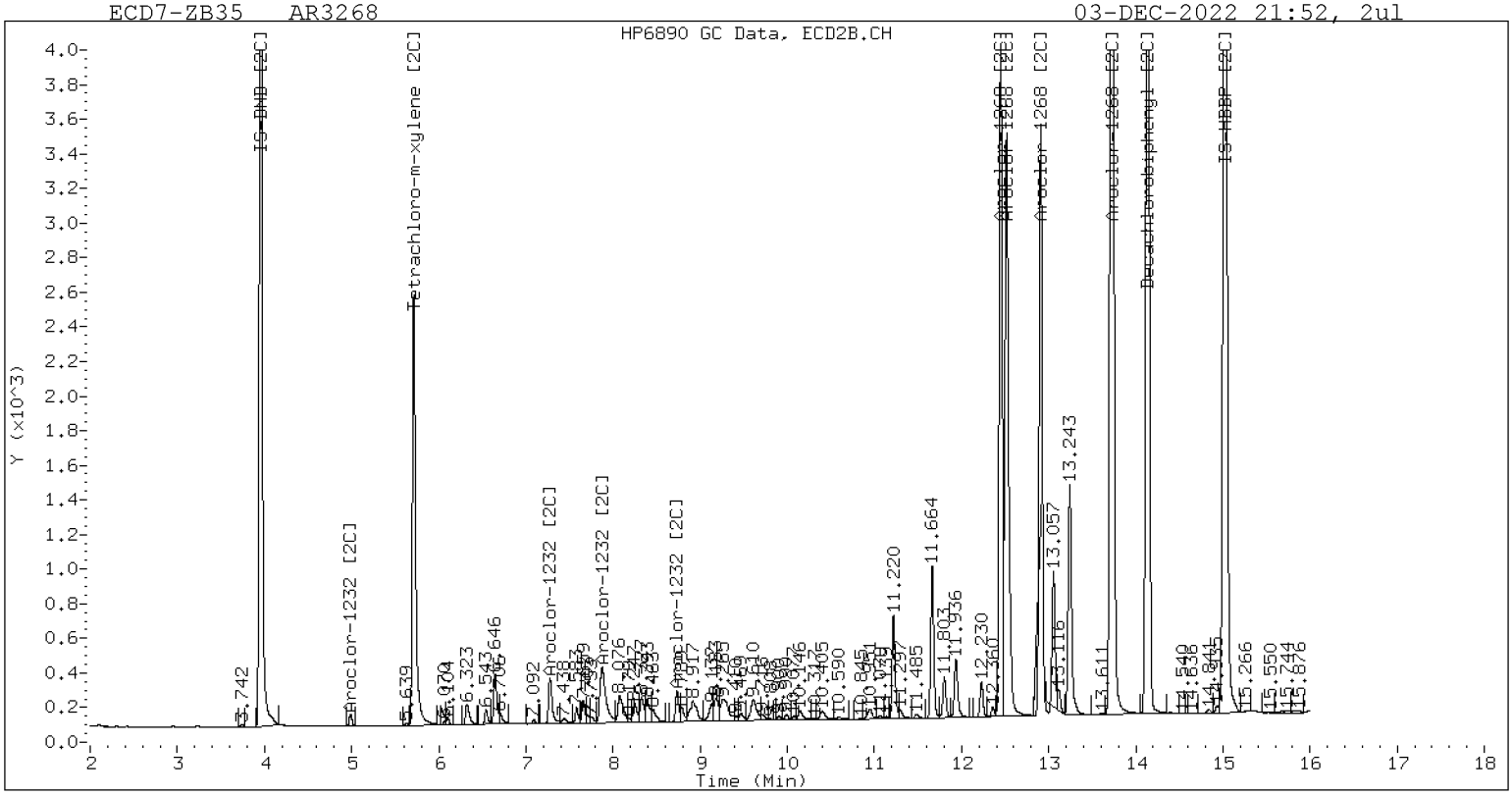
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268 03-DEC-2022 21:52, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268 03-DEC-2022 21:52, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

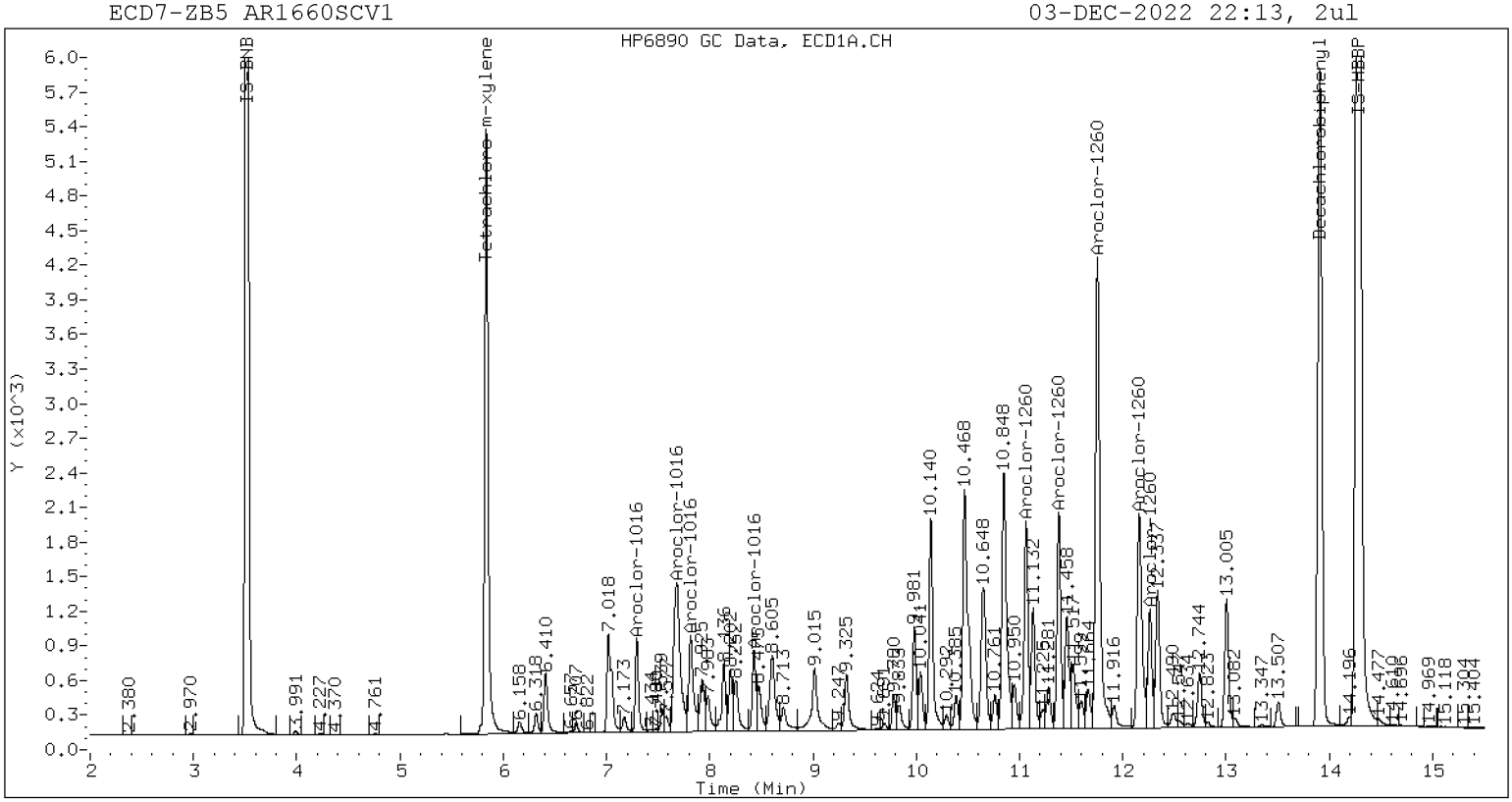
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

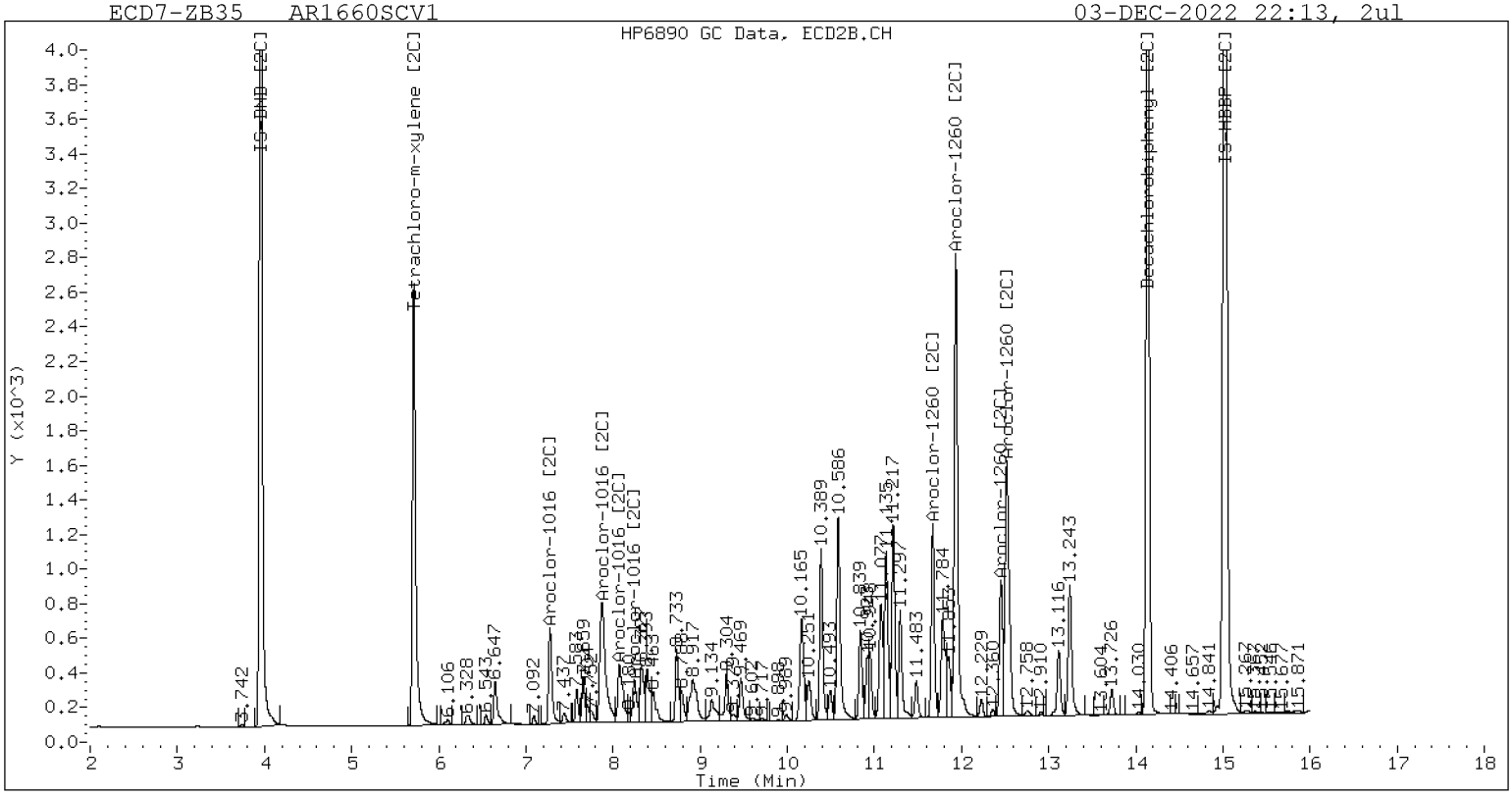
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

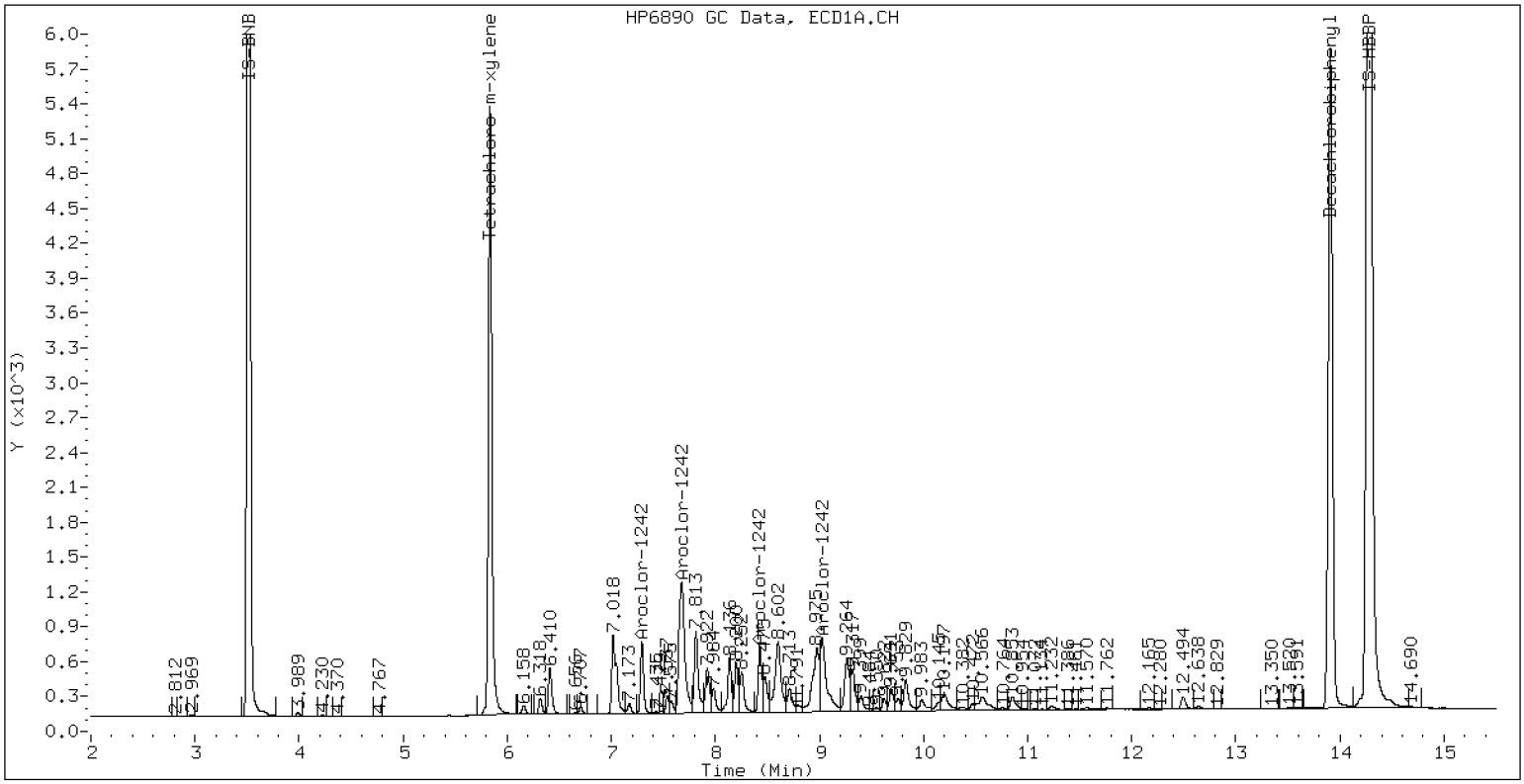
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

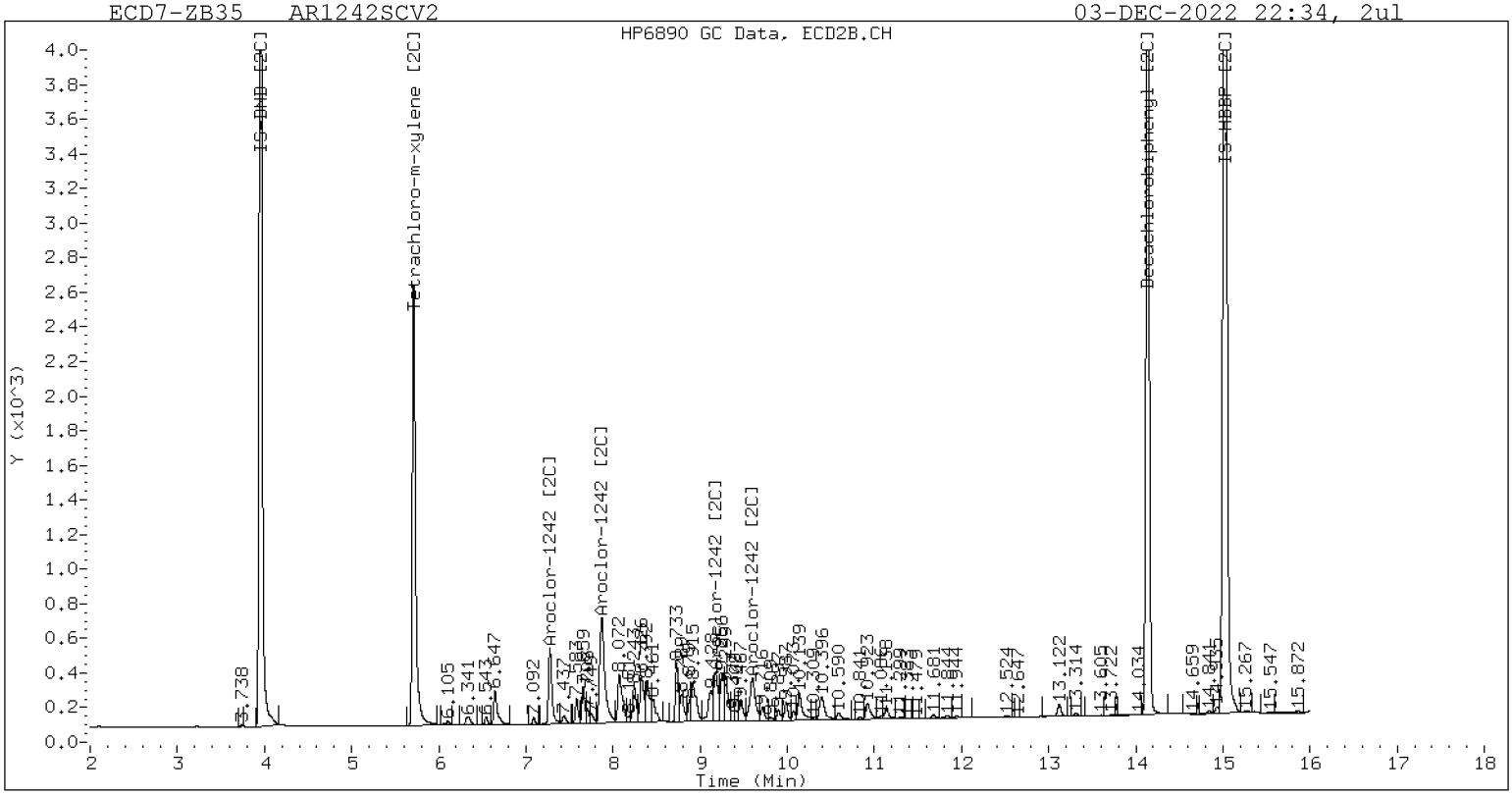
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7

Total Col1Ave (4 peaks): 245.5 Total Col2Ave (4 peaks): 230.2 RPD = 6

Corrected Ave (3 peaks): 238.8 Corrected Ave (3 peaks): 230.0 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

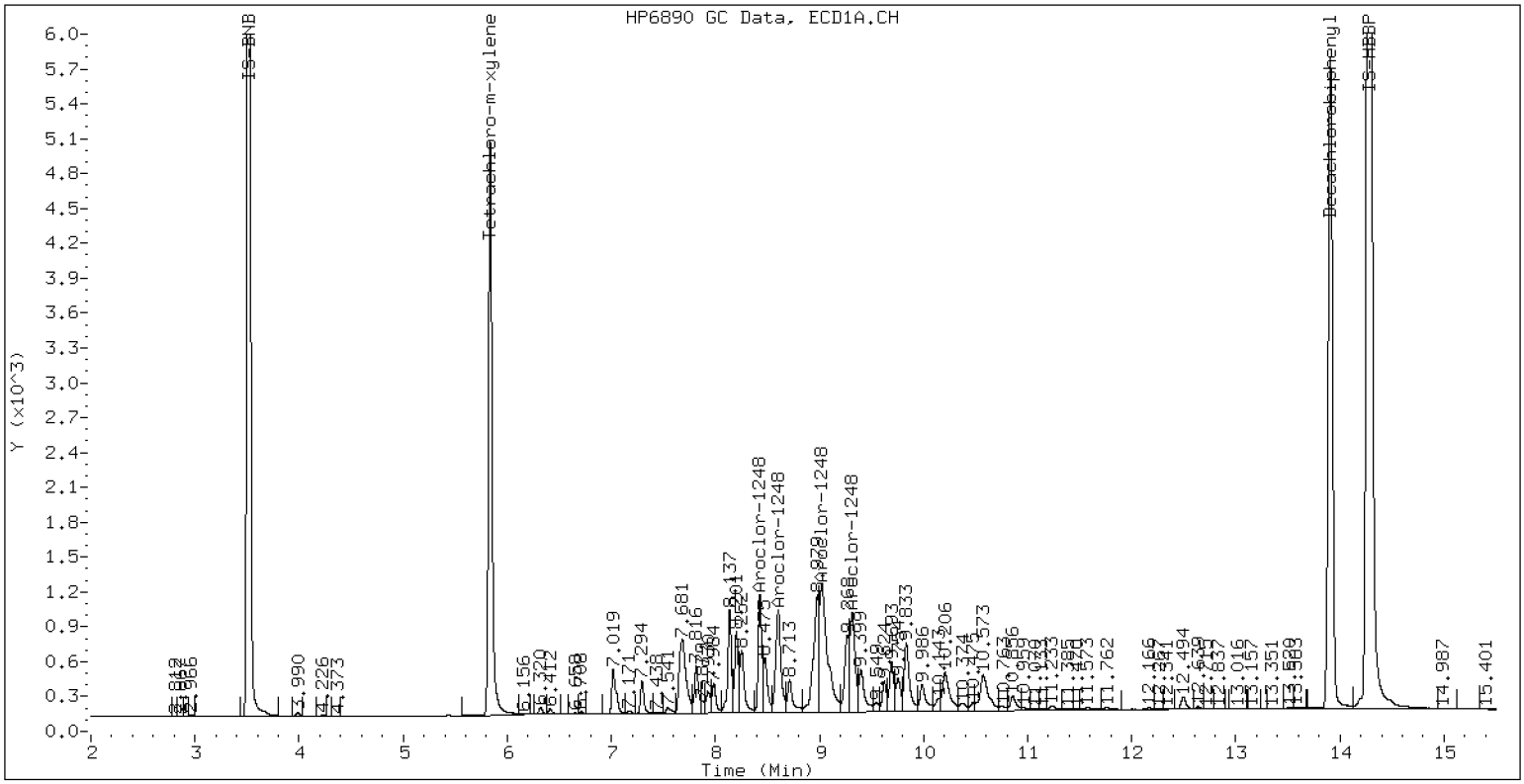
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

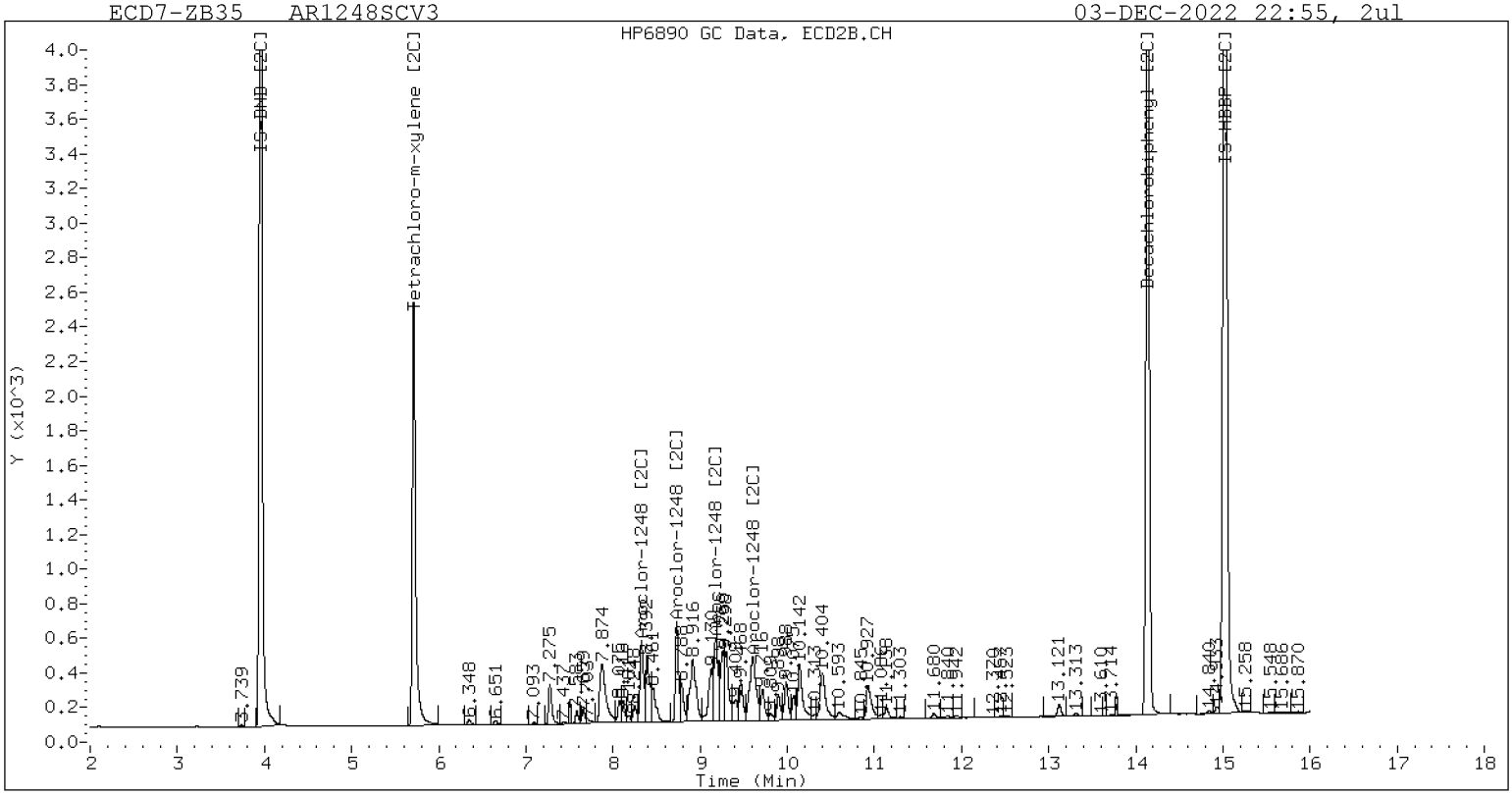
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

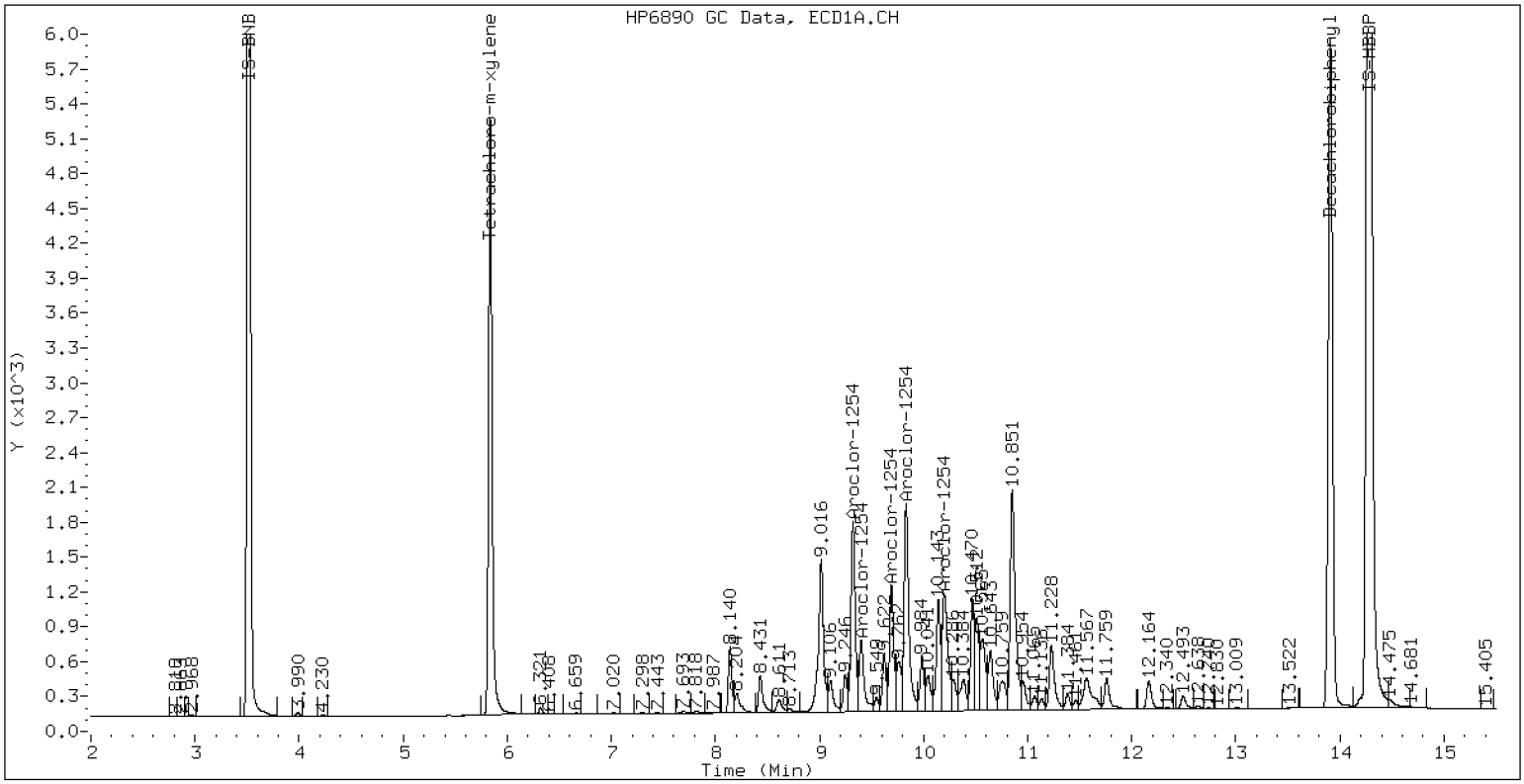
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

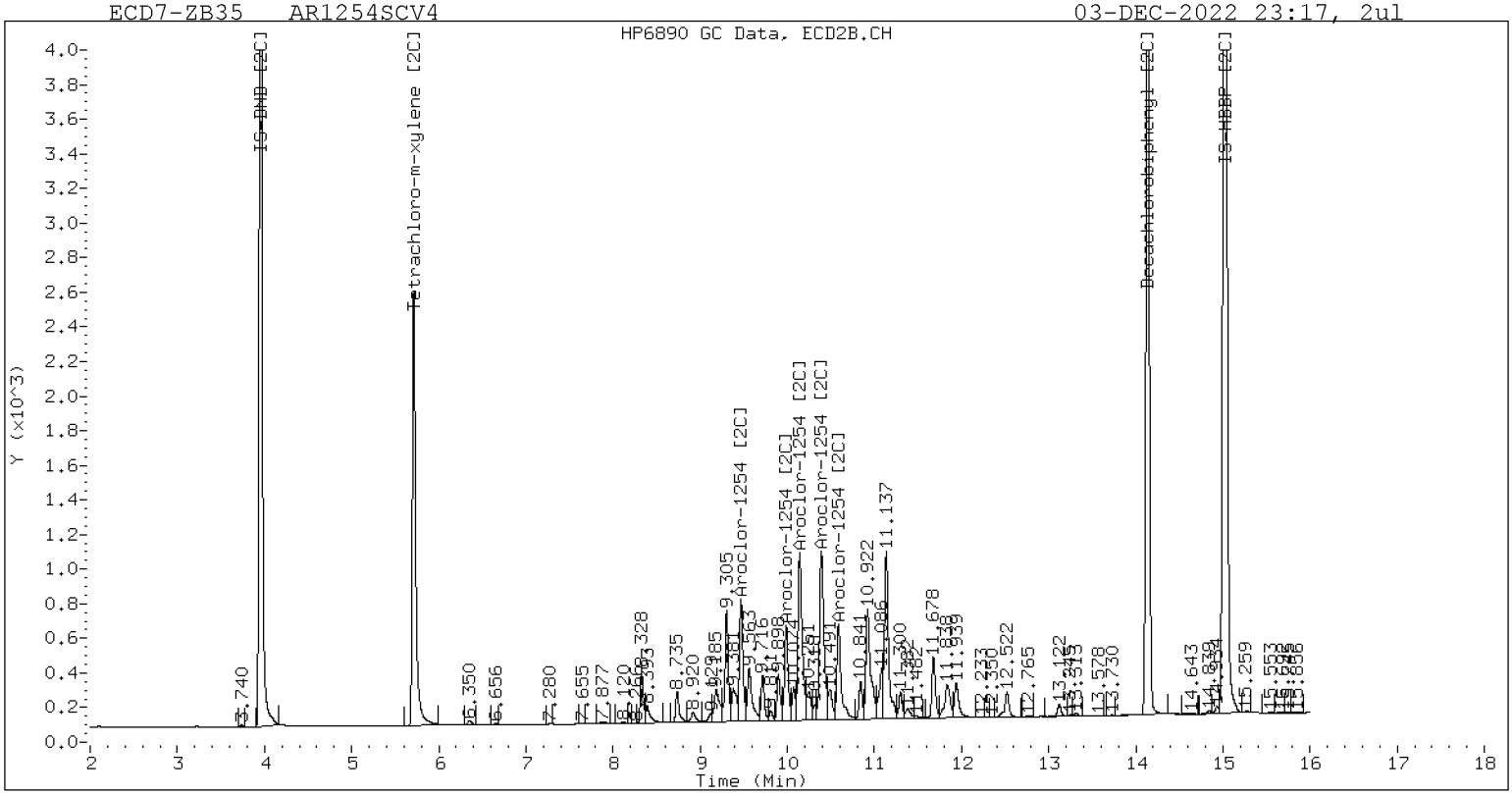
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

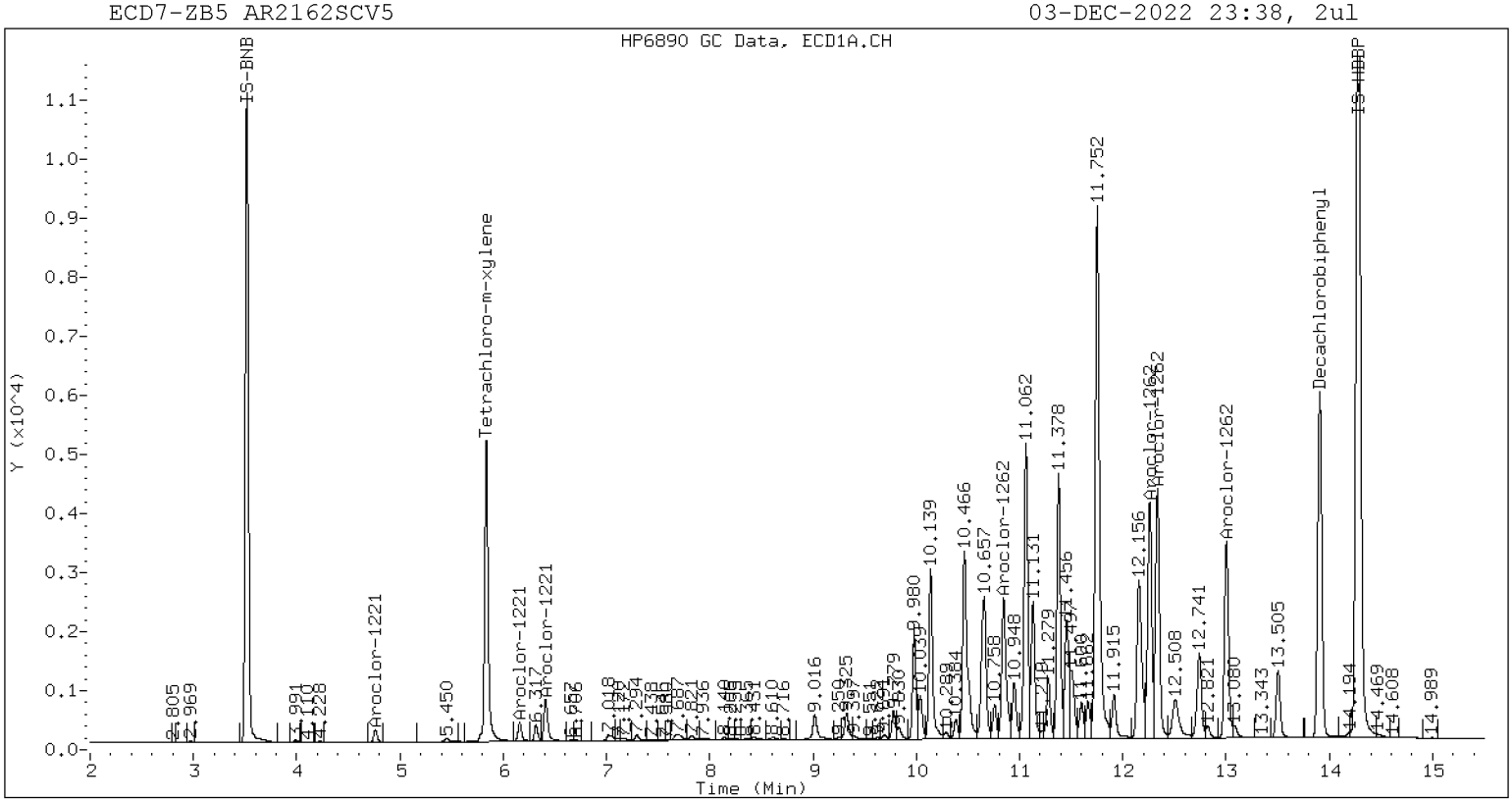
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

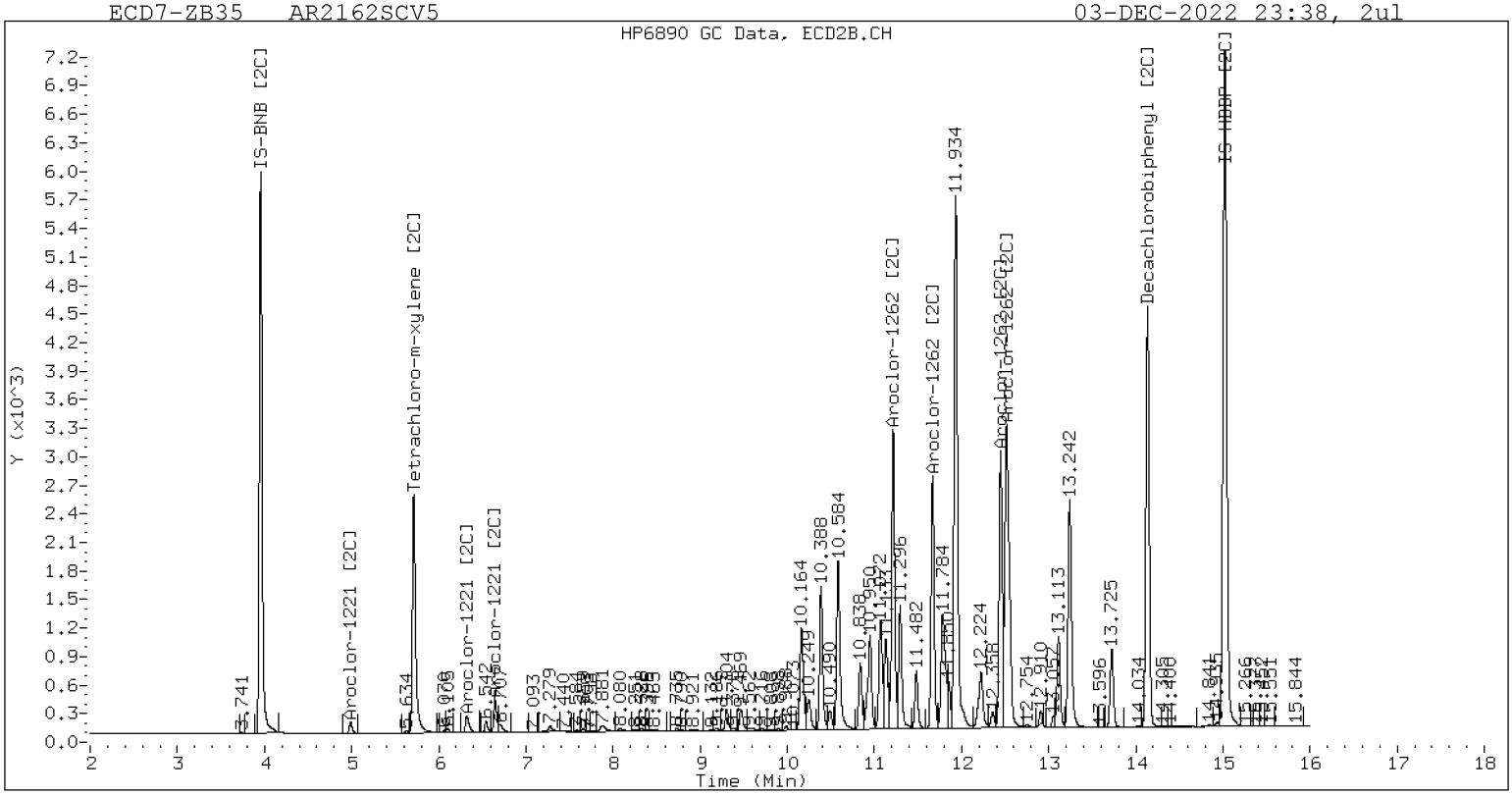
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

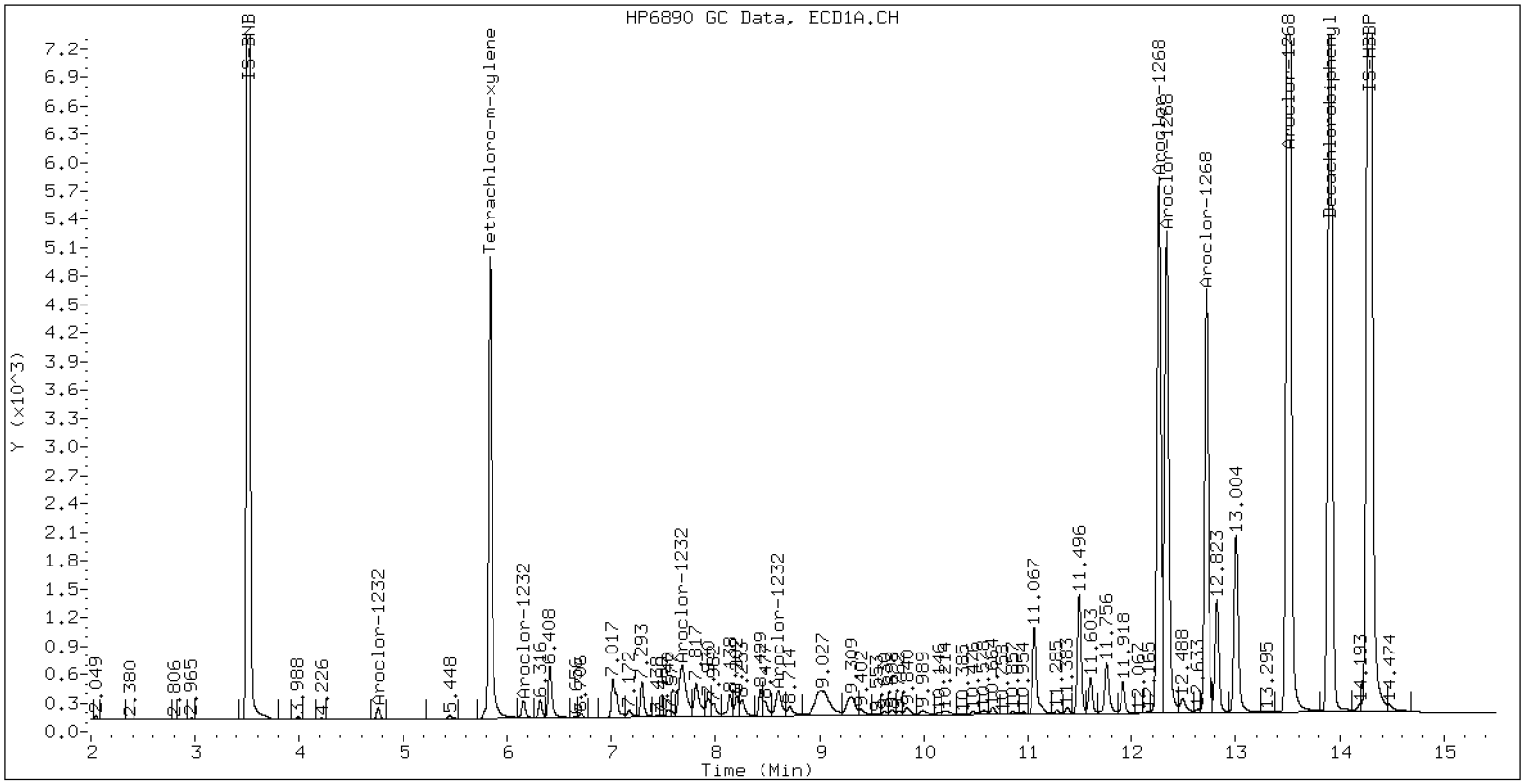
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

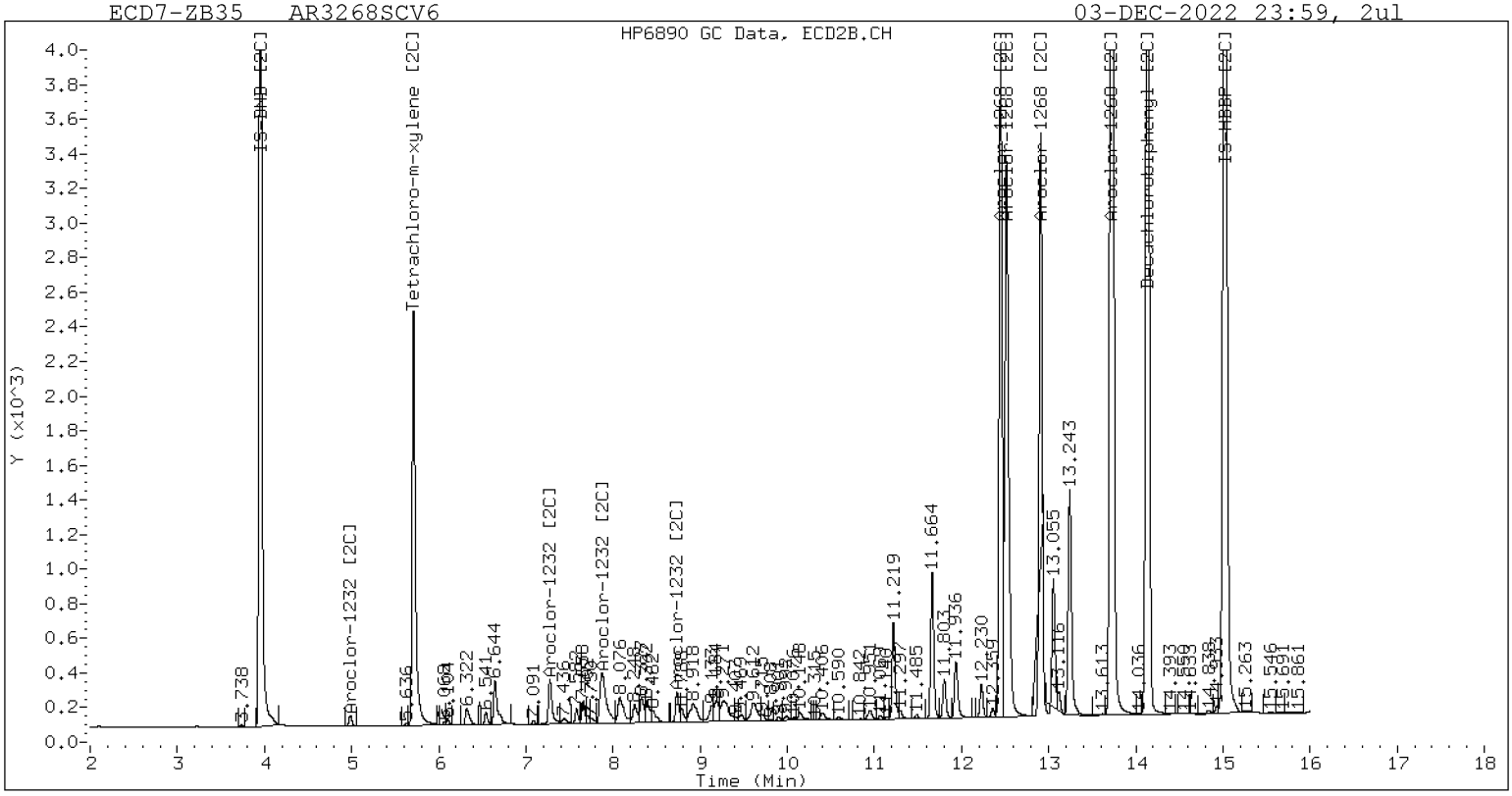
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV1
Sequence: SKL0048
Sequence Name: AR1660SCV1
Standard ID: K007655

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1016	250.00	223	-10.7	20.00
Aroclor 1016 [2C]	250.00	216	-13.5	20.00
Aroclor 1260	250.00	285	14.1	20.00
Aroclor 1260 [2C]	250.00	263	5.1	20.00
Decachlorobiphenyl	40.000	39.8	-0.5	20.00
Tetrachlorometaxylene	40.000	36.1	-9.7	20.00
Decachlorobiphenyl [2C]	40.000	38.2	-4.6	20.00
Tetrachlorometaxylene [2C]	40.000	36.1	-9.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

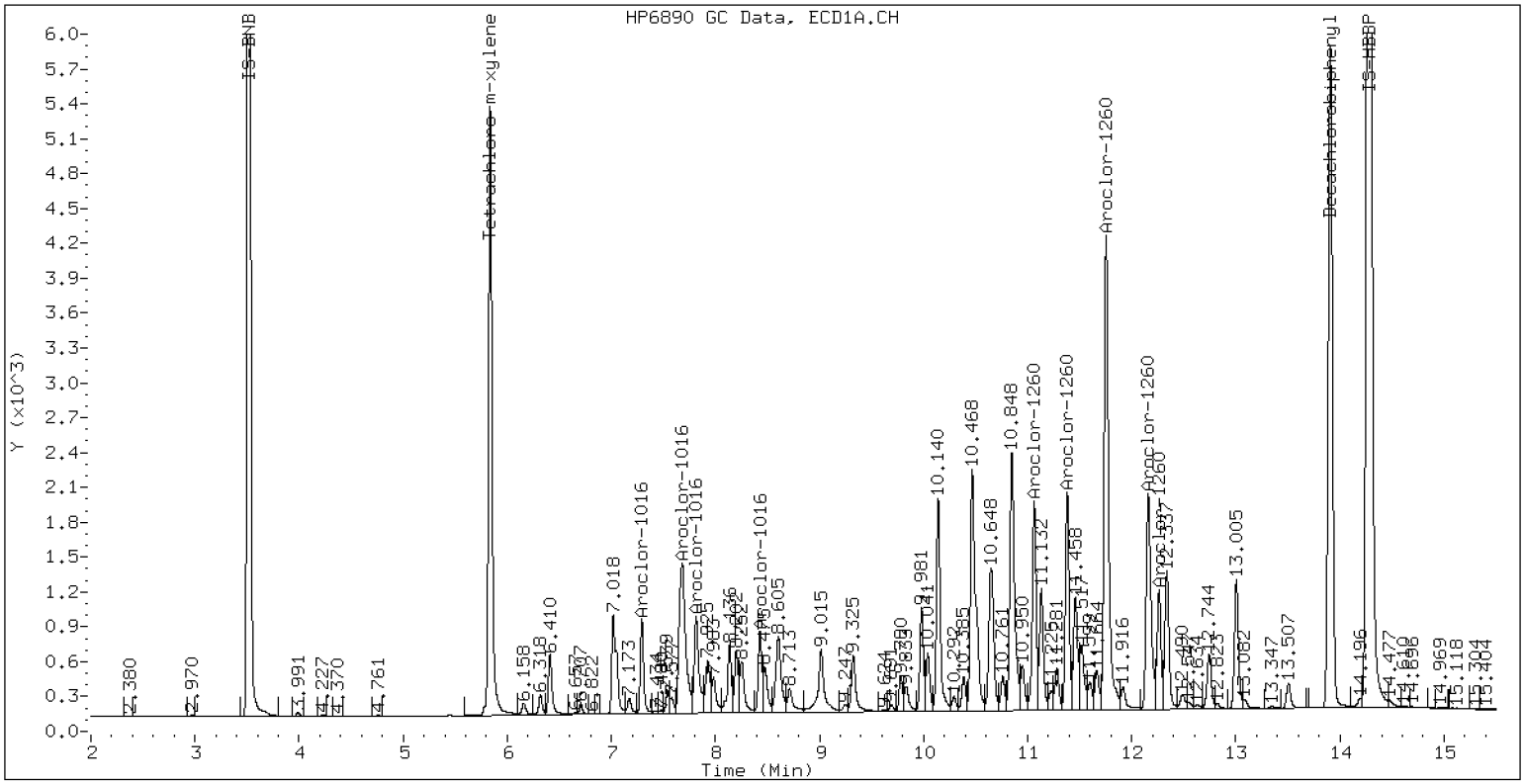
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

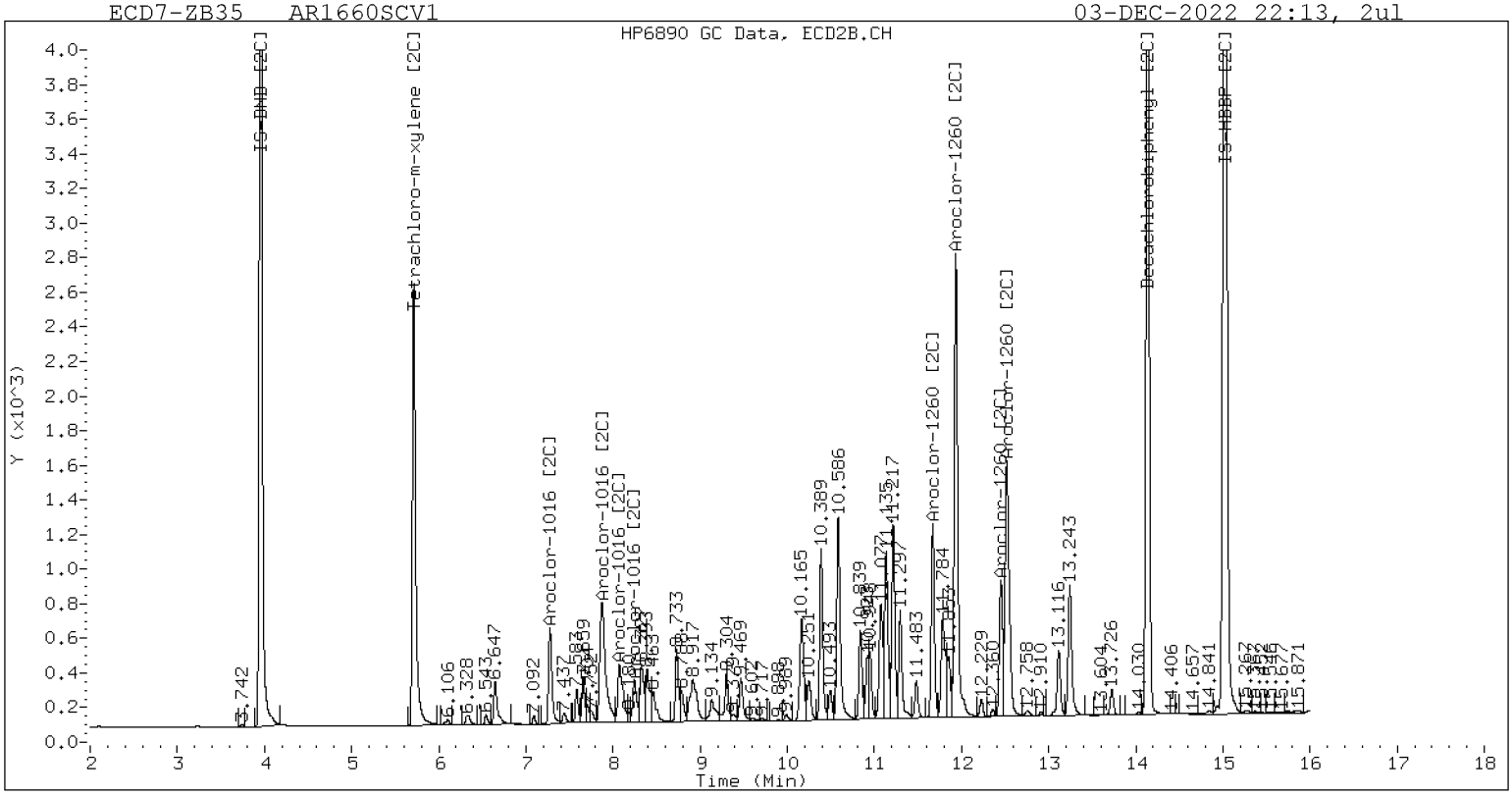
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV2
Sequence: SKL0048
Sequence Name: AR1242SCV2
Standard ID: K007656

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1242	250.00	207	-17.3	20.00
Aroclor 1242 [2C]	250.00	225	-10.0	20.00
Decachlorobiphenyl	40.000	39.1	-2.1	20.00
Tetrachlorometaxylene	40.000	35.6	-11.1	20.00
Decachlorobiphenyl [2C]	40.000	38.0	-5.0	20.00
Tetrachlorometaxylene [2C]	40.000	35.8	-10.5	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

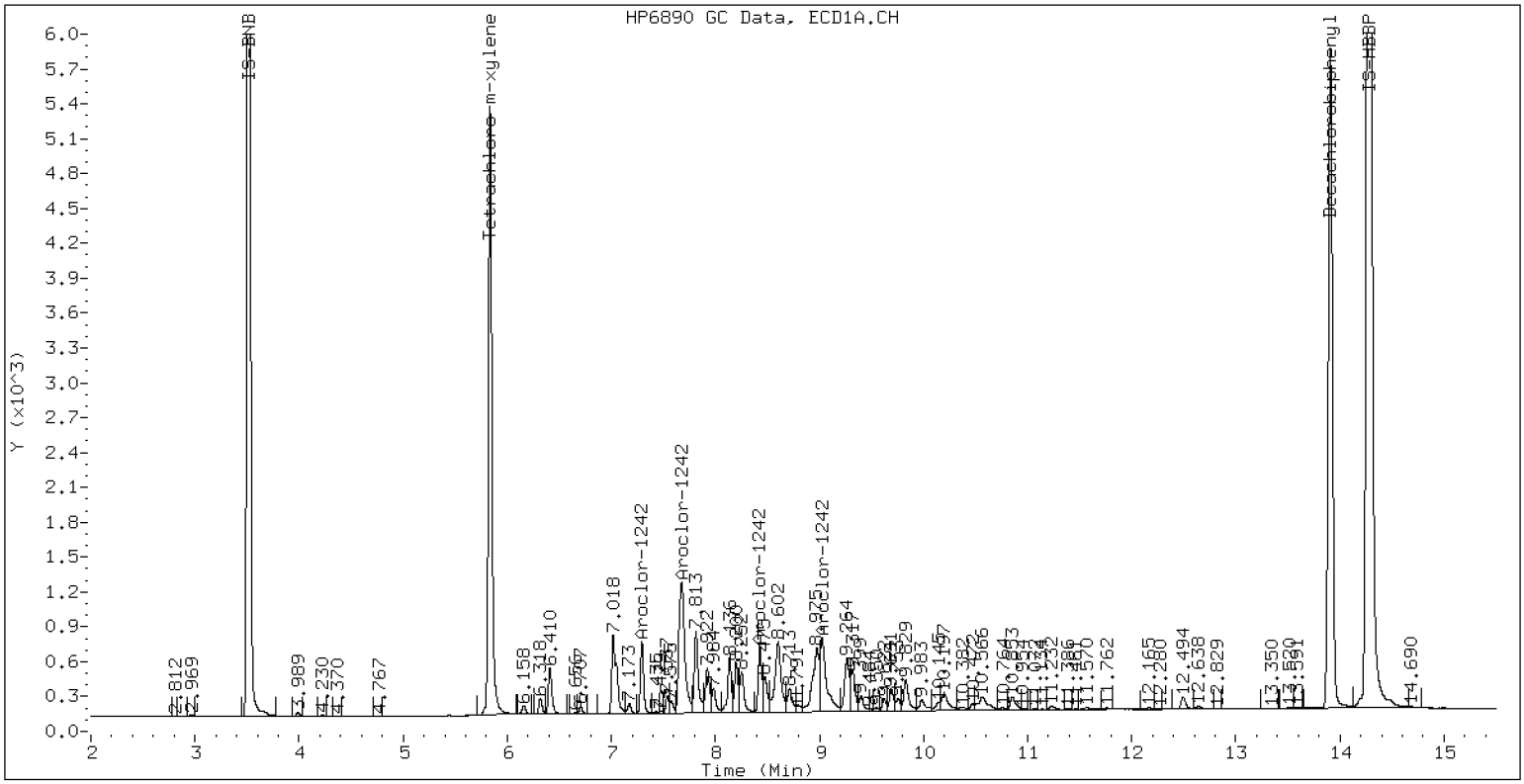
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

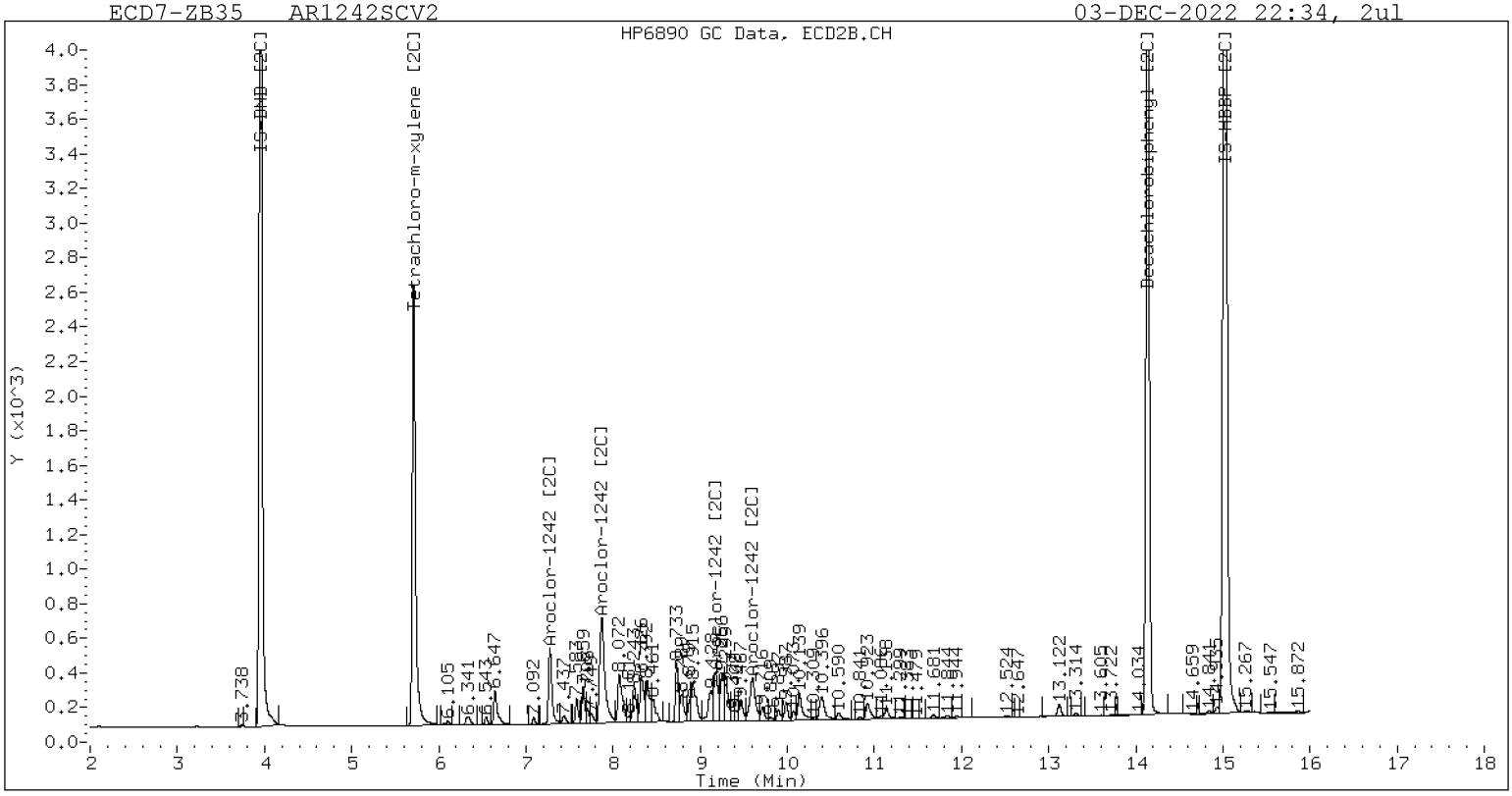
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV3
Sequence: SKL0048
Sequence Name: AR1248SCV3
Standard ID: K007657

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1248	250.00	246	-1.8	20.00
Aroclor 1248 [2C]	250.00	230	-7.9	20.00
Decachlorobiphenyl	40.000	39.3	-1.7	20.00
Tetrachlorometaxylene	40.000	34.7	-13.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	35.1	-12.3	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

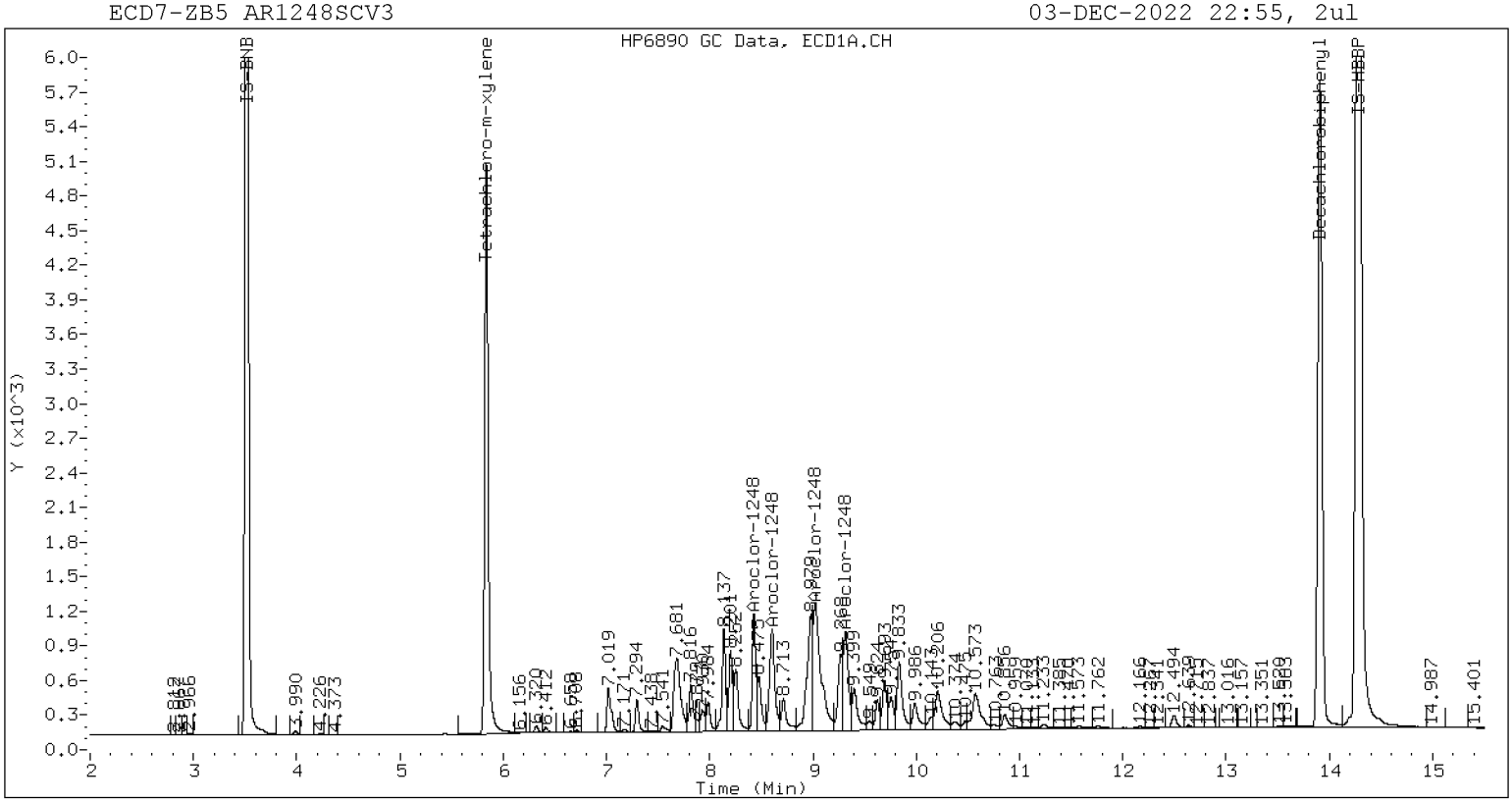
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

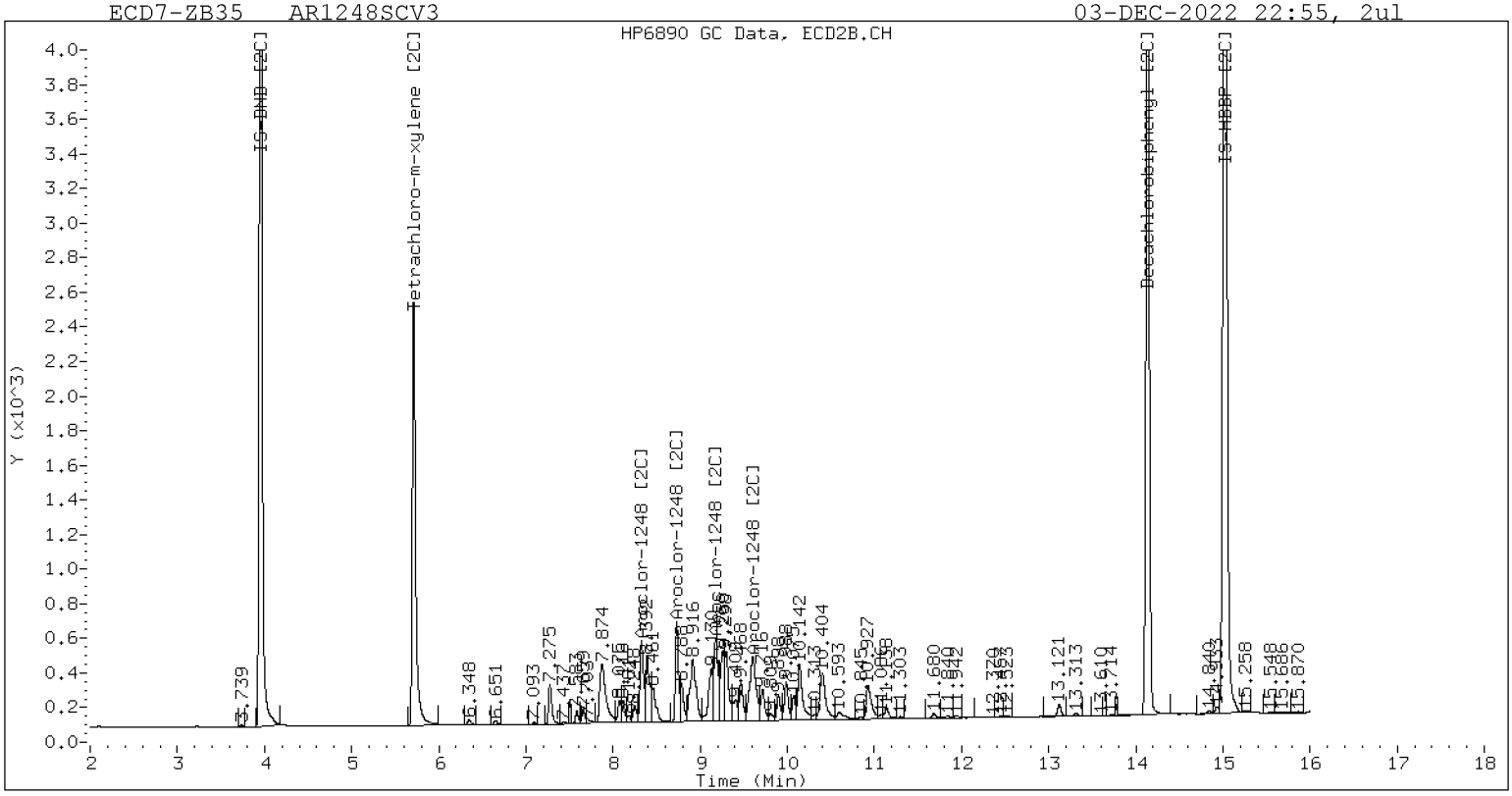
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV4
Sequence: SKL0048
Sequence Name: AR1254SCV4
Standard ID: K007658

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1254	250.00	228	-8.8	20.00
Aroclor 1254 [2C]	250.00	231	-7.7	20.00
Decachlorobiphenyl	40.000	39.5	-1.1	20.00
Tetrachlorometaxylene	40.000	35.5	-11.2	20.00
Decachlorobiphenyl [2C]	40.000	38.1	-4.8	20.00
Tetrachlorometaxylene [2C]	40.000	36.0	-10.0	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

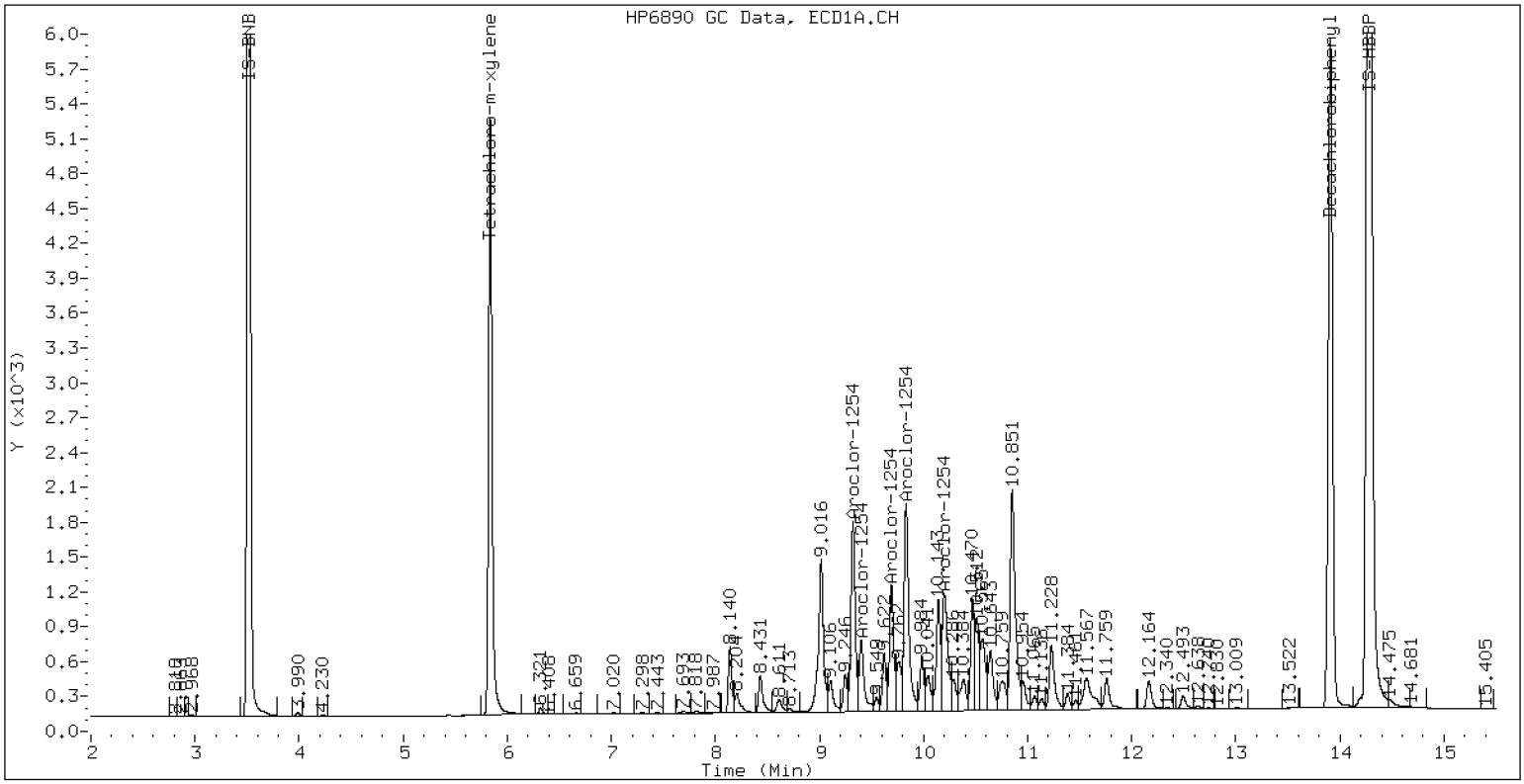
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

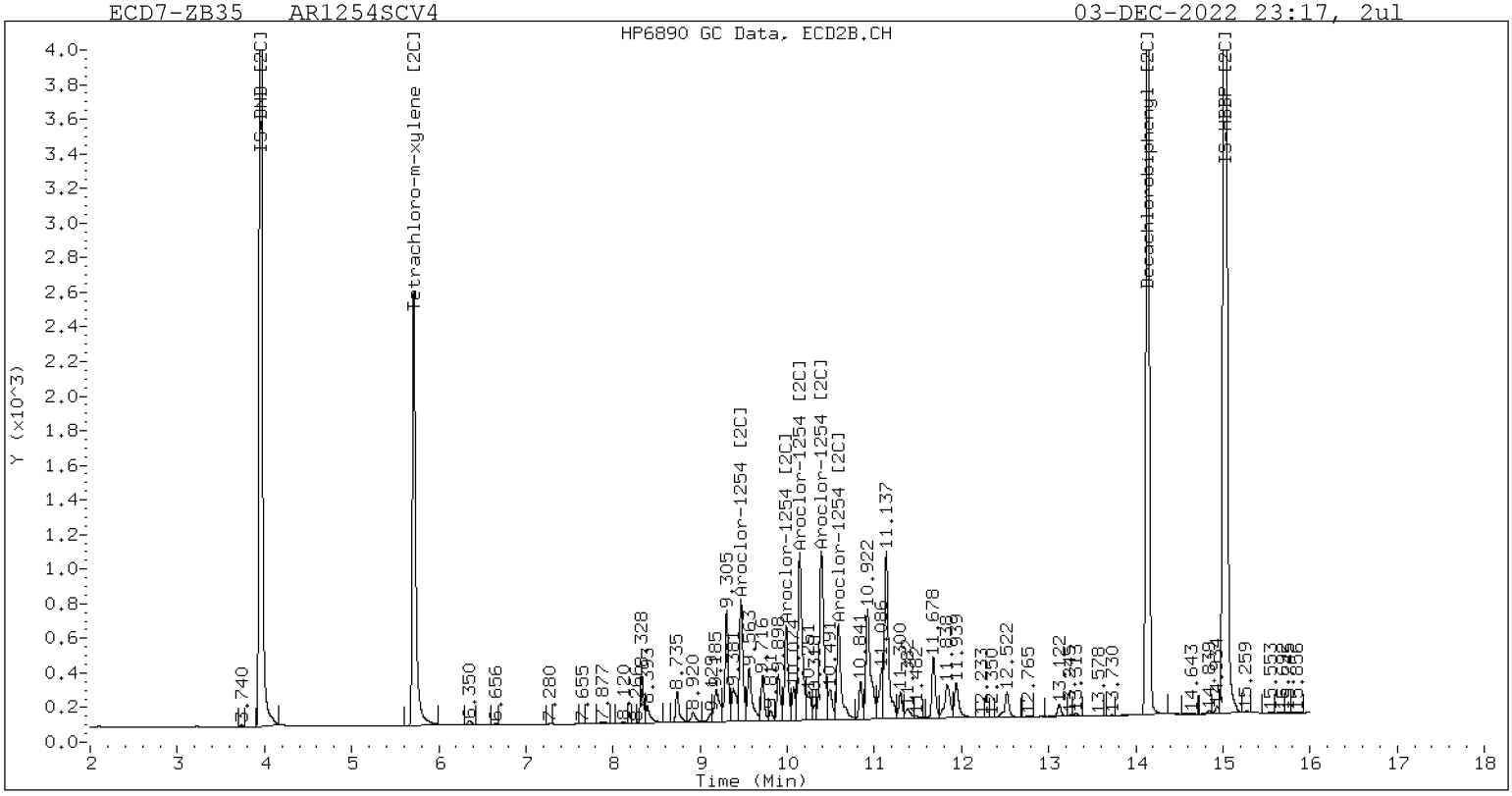
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Calibration: FL00010
Sequence: SKL0048

SDG: 22L0246
Project: AOC4 UR Phase 3
Laboratory ID: SKL0048-SCV5
Sequence Name: AR2162SCV5
Standard ID: K007659

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1221	250.00	237	-5.3	20.00
Aroclor 1221 [2C]	250.00	236	-5.7	20.00
Aroclor 1262	500.00	469	-6.2	20.00
Aroclor 1262 [2C]	500.00	464	-7.1	20.00
Decachlorobiphenyl	40.000	40.0	-0.04	20.00
Tetrachlorometaxylene	40.000	36.1	-9.8	20.00
Decachlorobiphenyl [2C]	40.000	38.4	-3.9	20.00
Tetrachlorometaxylene [2C]	40.000	35.7	-10.8	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

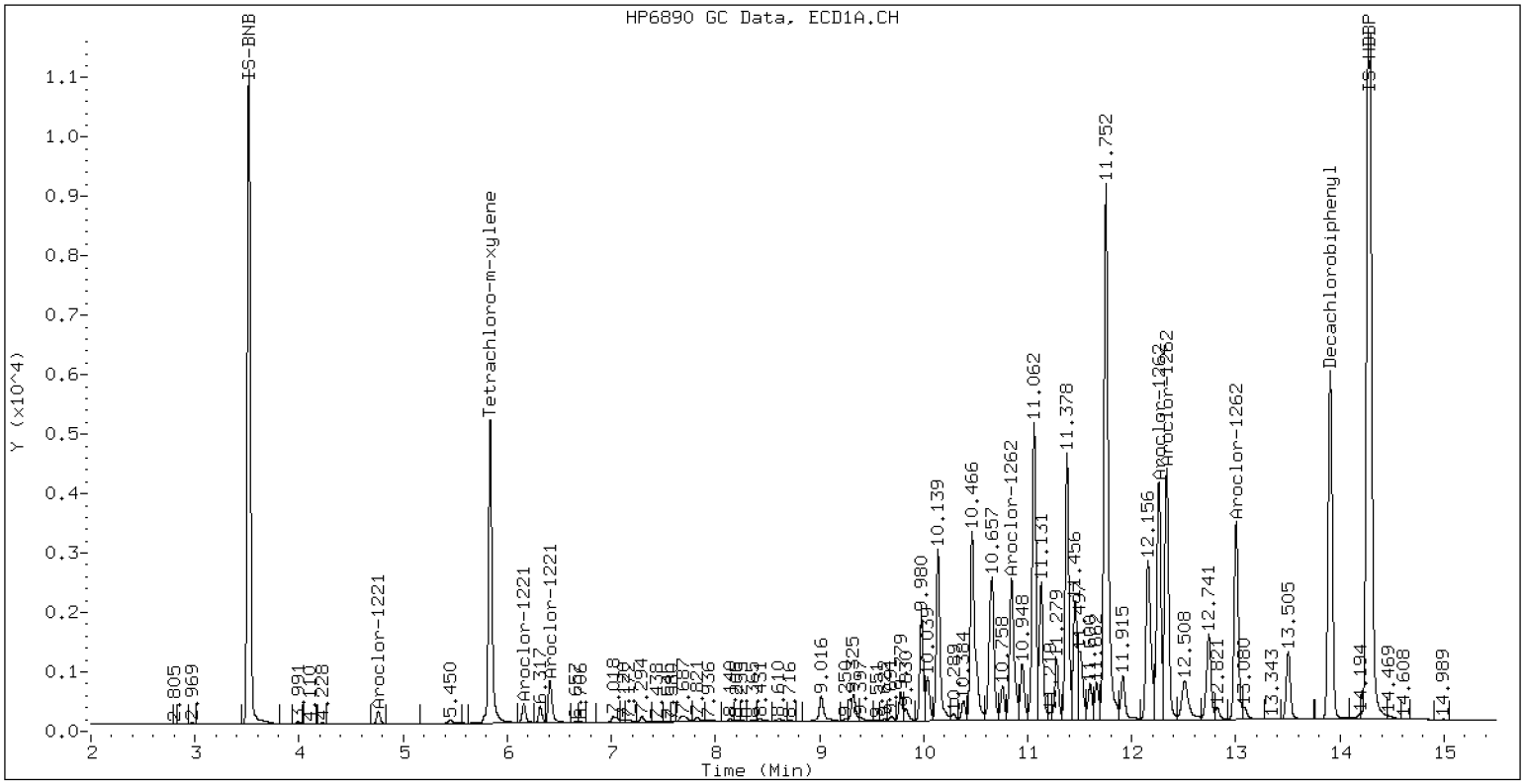
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

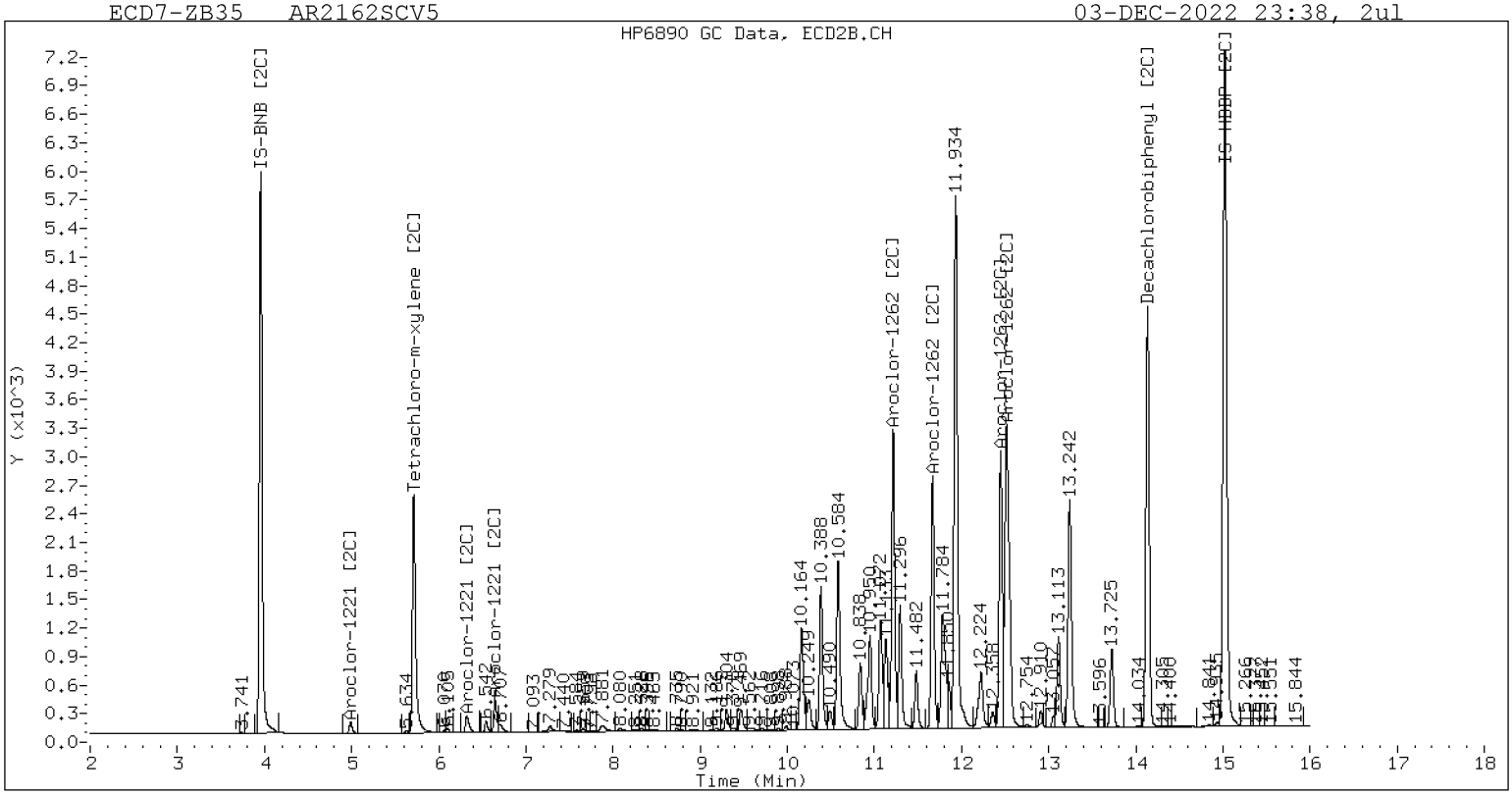
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

SECOND-SOURCE CALIBRATION VERIFICATION

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FL00010
Laboratory ID: SKL0048-SCV6
Sequence: SKL0048
Sequence Name: AR3268SCV6
Standard ID: K007660

ANALYTE	EXPECTED (ug/L)	FOUND (ug/L)	% DRIFT	QC LIMIT
Aroclor 1232	250.00	217	-13.4	20.00
Aroclor 1232 [2C]	250.00	230	-7.9	20.00
Aroclor 1268	250.00	231	-7.5	20.00
Aroclor 1268 [2C]	250.00	228	-8.9	20.00
Decachlorobiphenyl	40.000	56.2	40.4	20.00
Tetrachlorometaxylene	40.000	34.5	-13.8	20.00
Decachlorobiphenyl [2C]	40.000	54.9	37.3	20.00
Tetrachlorometaxylene [2C]	40.000	34.2	-14.4	20.00

* Indicates values outside of QC limits
[2C] indicates second-column analyte.

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

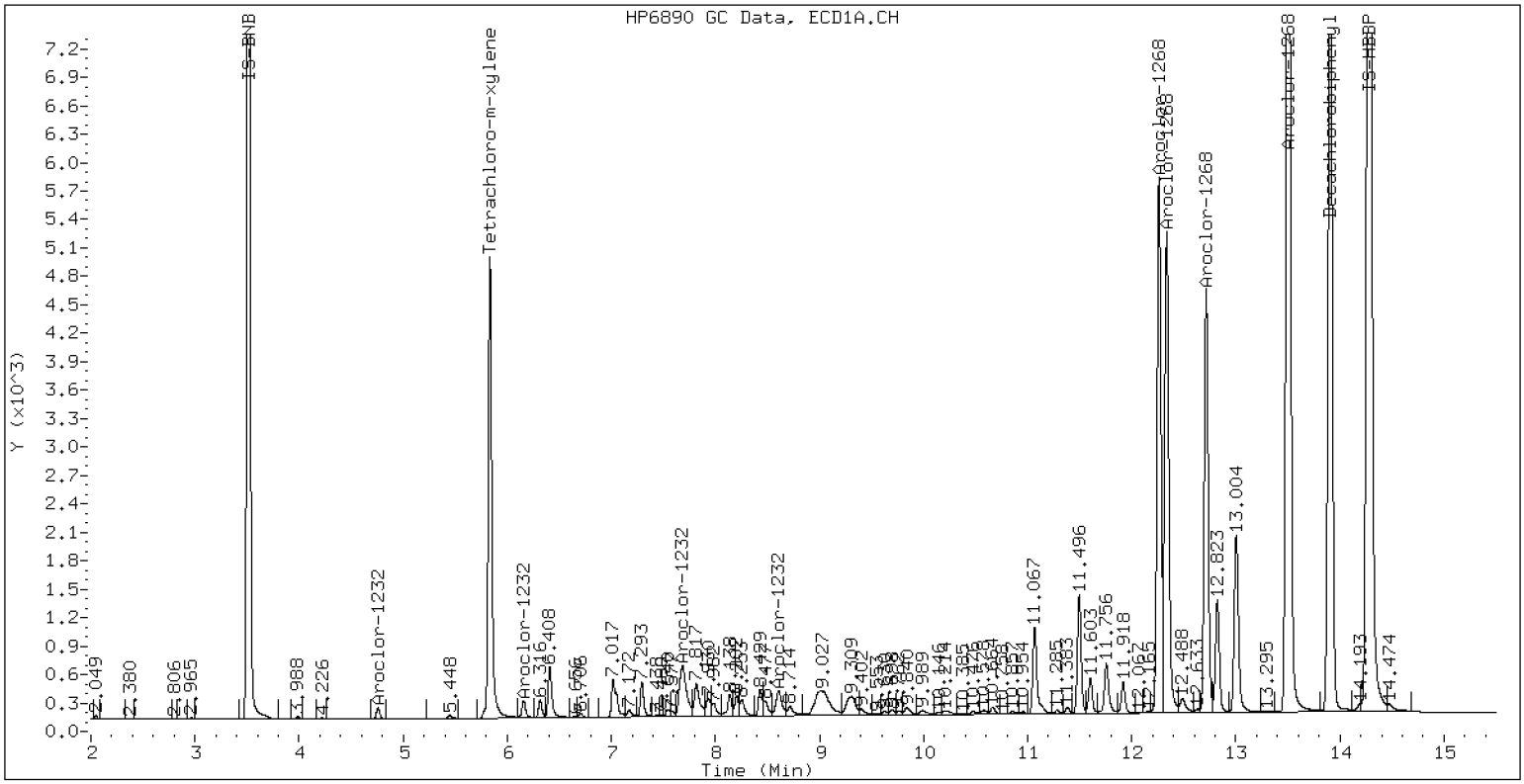
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

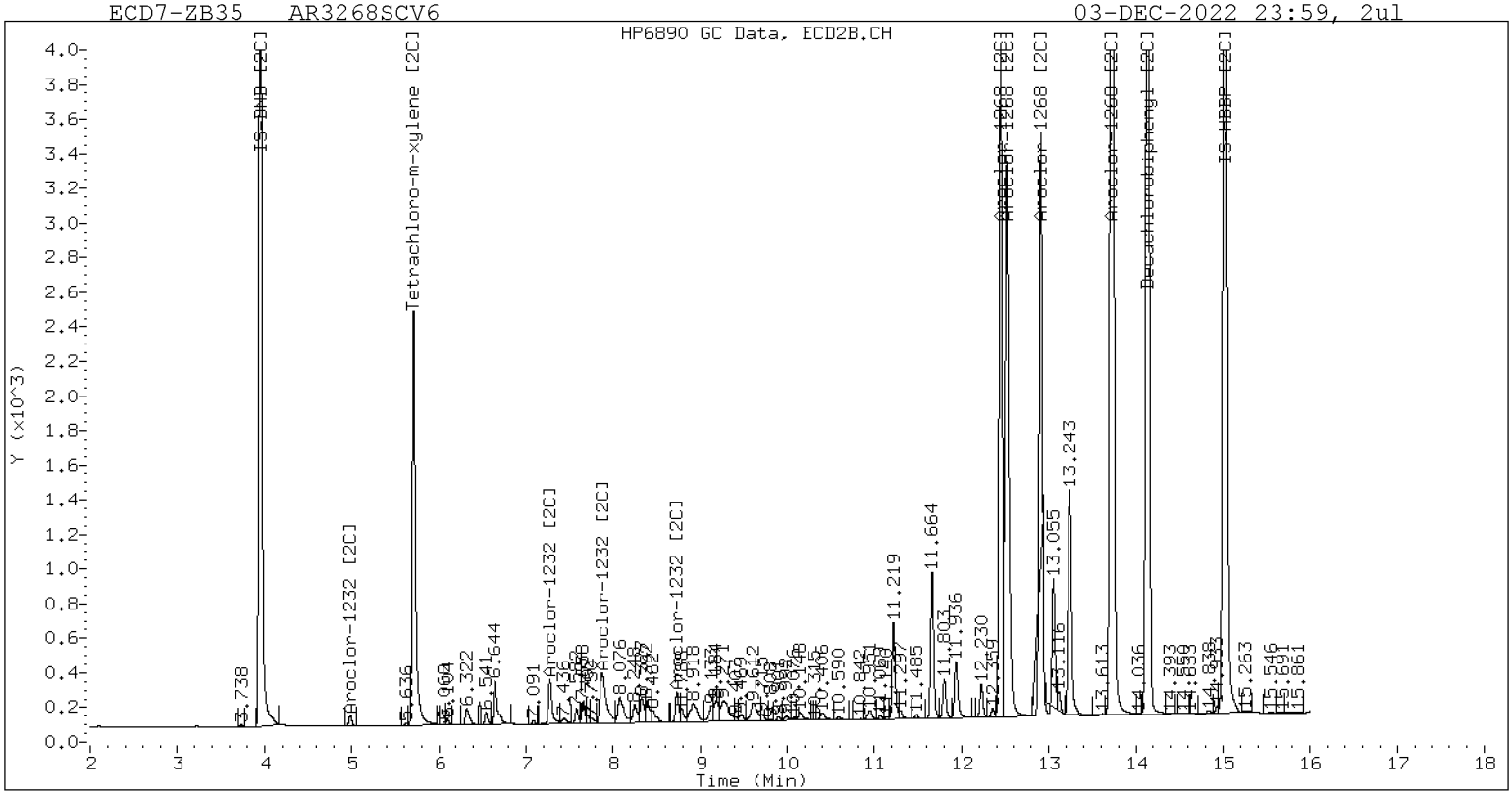
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-ICV1	Injection Time:	07:15
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF		
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT	
Aroclor 1254	A	250.00	298	0.0576965	0.0689945		19.1	+/-20	
Aroclor-1254 (1)	A	250.00	261	0.0704377	0.0736720				
Aroclor-1254 (2)	A	250.00	302	0.0273935	0.0330767				
Aroclor-1254 (3)	A	250.00	275	0.0444885	0.0489751				
Aroclor-1254 (4)	A	250.00	316	0.0867185	0.1096457				
Aroclor-1254 (5)	A	250.00	335	0.0594444	0.0796029				
Aroclor 1254 [2C]	A	250.00	253	0.0638047	0.0671879		1.1	+/-20	
Aroclor-1254 (1) [2C]	A	250.00	273	0.0515798	0.0564102				
Aroclor-1254 (2) [2C]	A	250.00	147	0.0414689	0.0244517				
Aroclor-1254 (3) [2C]	A	250.00	255	0.0891370	0.0910363				
Aroclor-1254 (4) [2C]	A	250.00	310	0.0923140	0.1143717				
Aroclor-1254 (5) [2C]	A	250.00	279	0.0445236	0.0496696				
Decachlorobiphenyl	A	40.000	48.7	0.7333327	0.8934248		21.8	+/-20	*
Tetrachlorometaxylene	A	40.000	39.3	1.1336710	1.1138250		-1.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.8	1.1358180	1.1871690		4.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	38.5	1.0966080	1.0565620		-3.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032302ECD7.D
Data file 2: /230103.b/230103.b/01032302ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 03-JAN-2023 07:15
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	187680	5.706	-0.002	123567	39.3	38.5	2.0	Tetrachloro-m-xylene
13.904	0.001	329764	14.128	-0.001	232697	48.7	41.8	15.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	337001	-24.7
Hexabromobiphenyl	798898	738202	-7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	233904	-6.1
Hexabromobiphenyl	362541	392020	8.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.311	-0.003	77586	261.5	1	9.457	-0.005	41233	273.4
Aroclor-1254	2	9.388	-0.005	34834	301.9	2	9.976	-0.002	17873	147.4
Aroclor-1254	3	9.680	-0.007	51577	275.2	3	10.126	-0.003	66543	255.3
Aroclor-1254	4	9.814	-0.006	115471	316.1	4	10.374	-0.005	83600	309.7
Aroclor-1254	5	10.166	-0.010	83832	334.8	5	10.572	-0.004	36306	278.9
Total Col1Ave (5 peaks):					297.9	Total Col2Ave (5 peaks):				253.0 RPD = 16
Corrected Ave (4 peaks):					288.7	Corrected Ave (4 peaks):				238.8 RPD = 19
CalAmt %D:					19.2	CalAmt %D:				1.2

Total PCB Area Col1 (5.932 - 13.803) = 1284705 Col1 Total PCB = 0.4 ppm*

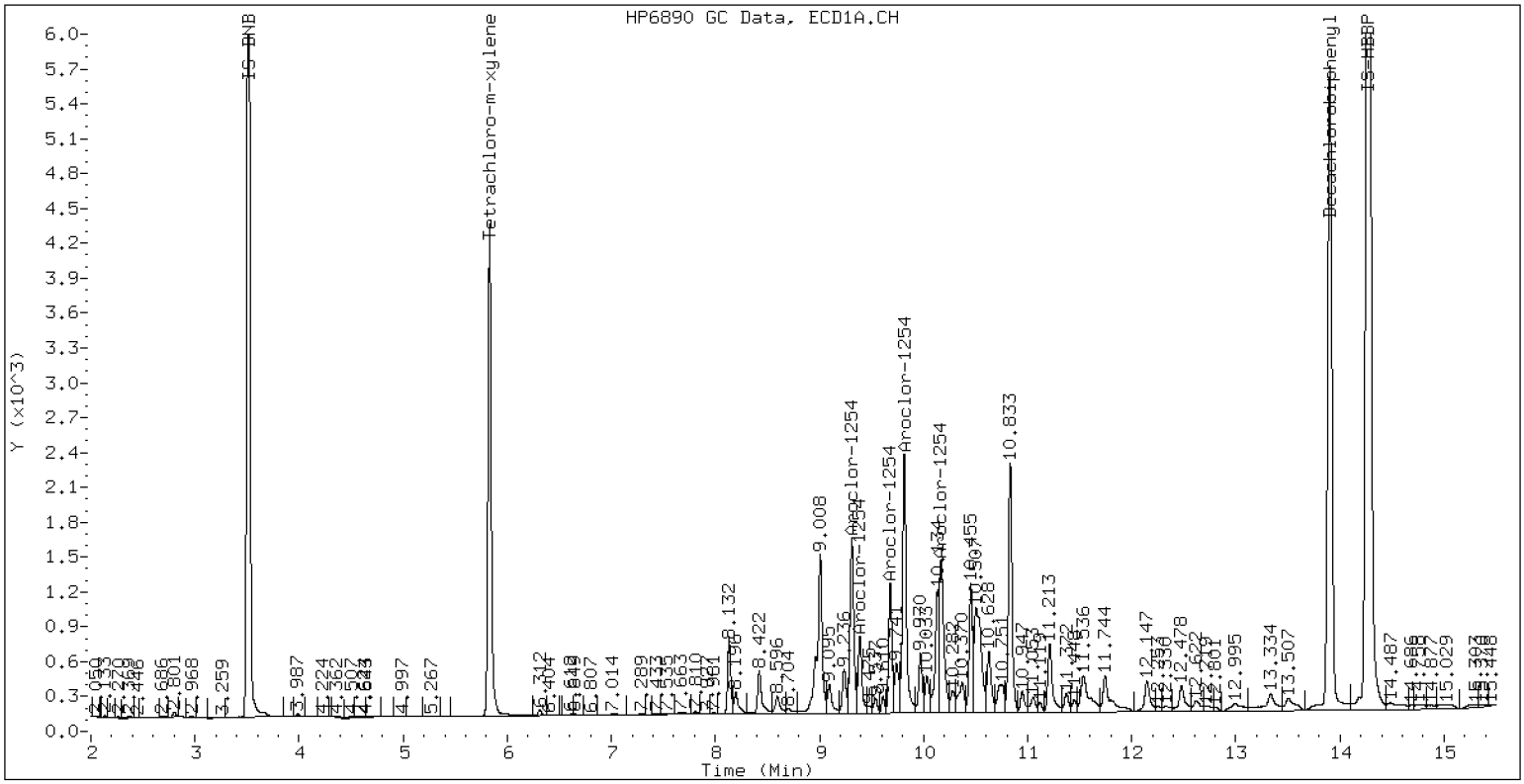
Total PCB Area Col2 (5.808 - 14.029) = 696798 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

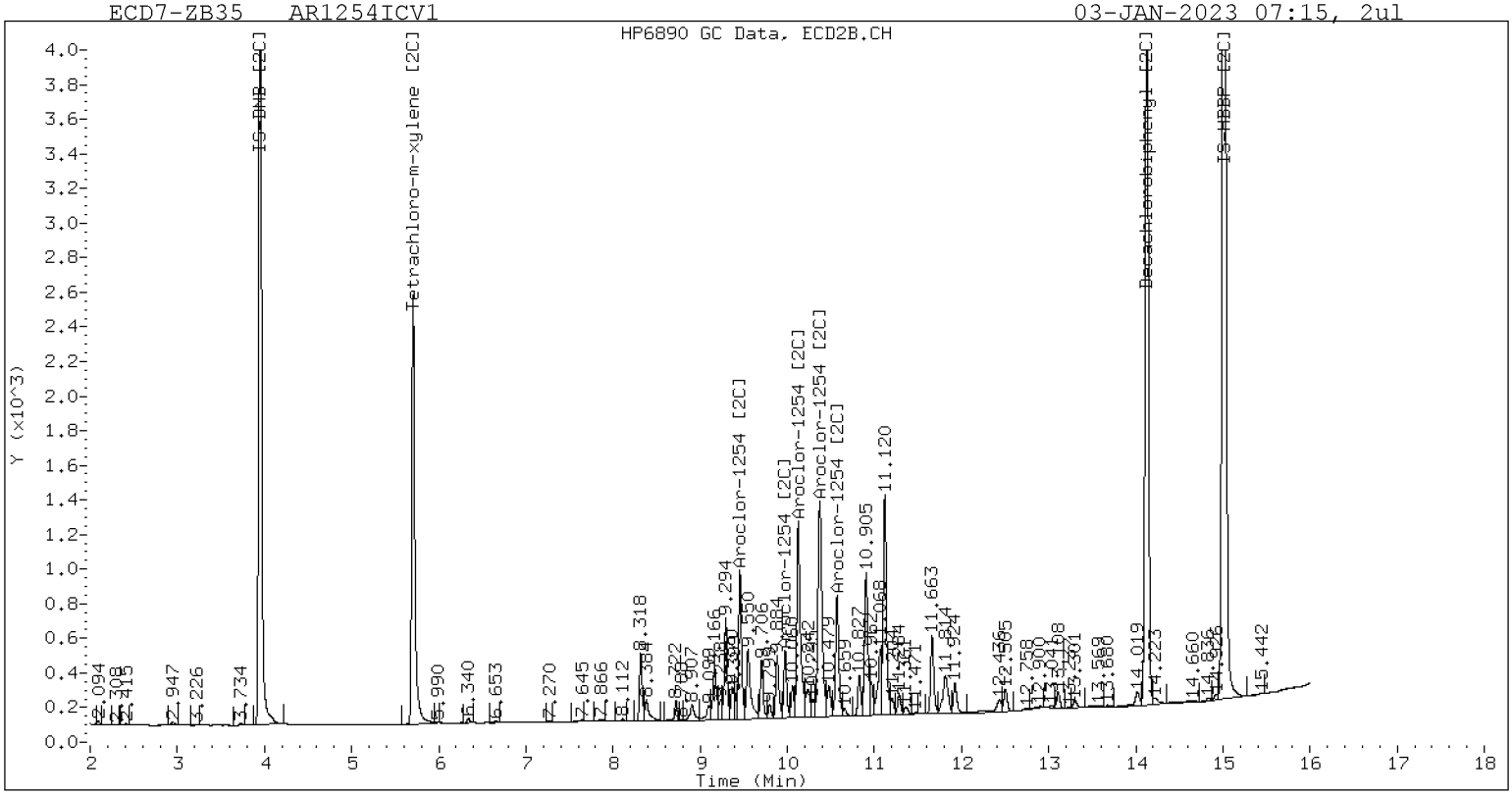
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 03-JAN-2023 07:15, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254ICV1 03-JAN-2023 07:15, 2ul

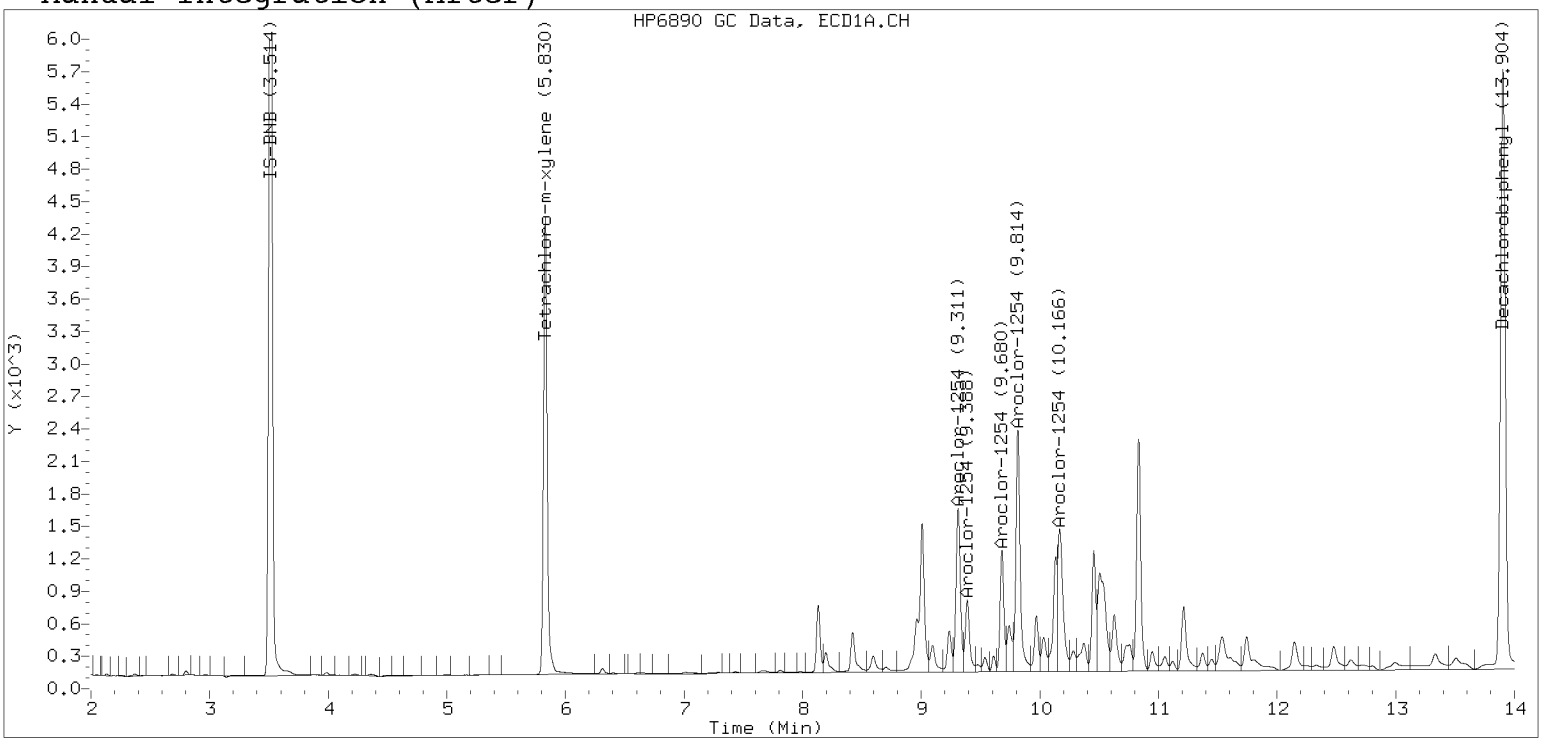


ZB-35 Manual Integration: NO

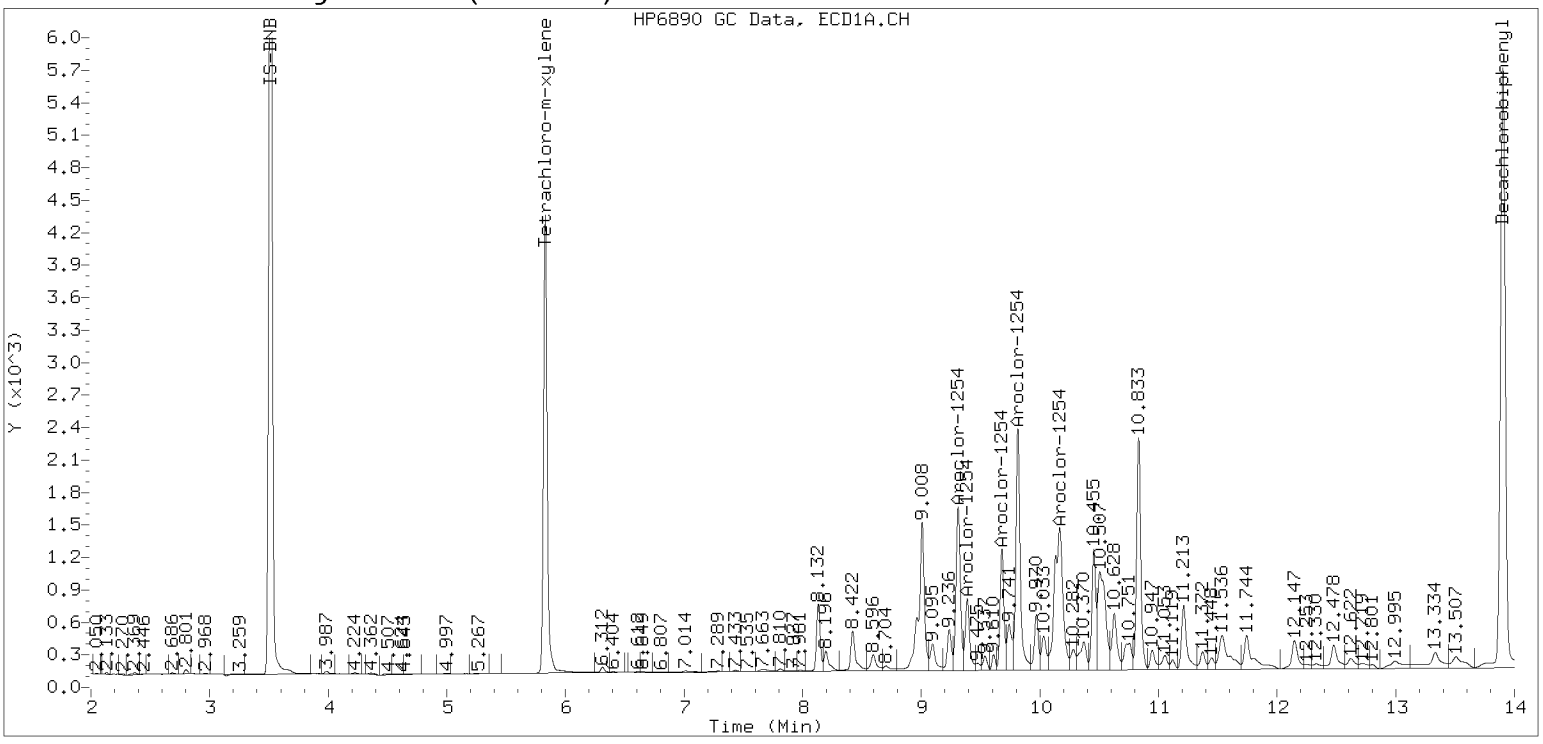
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032302ECD7.D Injection Date: 03-JAN-2023 07:15

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-ICV2	Injection Time:	07:36
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	273	0.0441939	0.0481710		9.3	+/-20
Aroclor-1016 (1)	A	250.00	278	0.0266860	0.0296374		11.2	
Aroclor-1016 (2)	A	250.00	275	0.0861572	0.0947116		10.0	
Aroclor-1016 (3)	A	250.00	257	0.0390425	0.0401854		2.8	
Aroclor-1016 (4)	A	250.00	283	0.0248899	0.0281496		13.2	
Aroclor 1016 [2C]	A	250.00	257	0.0467310	0.0454086		2.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	266	0.0409030	0.0436077		6.4	
Aroclor-1016 (2) [2C]	A	250.00	214	0.0882154	0.0754932		-14.4	
Aroclor-1016 (3) [2C]	A	250.00	261	0.0378846	0.0395488		4.4	
Aroclor-1016 (4) [2C]	A	250.00	288	0.0199212	0.0229846		15.2	
Aroclor 1260	A	250.00	280	0.0390342	0.0434221		11.9	+/-20
Aroclor-1260 (1)	A	250.00	278	0.0291201	0.0324280		11.2	
Aroclor-1260 (2)	A	250.00	279	0.0301181	0.0335990		11.6	
Aroclor-1260 (3)	A	250.00	277	0.0791351	0.0875943		10.8	
Aroclor-1260 (4)	A	250.00	275	0.0403003	0.0443493		10.0	
Aroclor-1260 (5)	A	250.00	290	0.0164974	0.0191401		16.0	
Aroclor 1260 [2C]	A	250.00	201	0.0617619	0.0441614		-19.8	+/-20
Aroclor-1260 (1) [2C]	A	250.00	250	0.0422283	0.0423277		0.0	
Aroclor-1260 (2) [2C]	A	250.00	142	0.1059643	0.0603257		-43.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0280554		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	162	0.0706376	0.0459368		-35.2	
Decachlorobiphenyl	A	40.000	46.8	0.7333327	0.8581875		17.0	+/-20
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1663930		3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1822340		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.3	1.0966080	1.1320960		3.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032303ECD7.D
Data file 2: /230103.b/230103.b/01032303ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 03-JAN-2023 07:36
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.002	151150	5.707	-0.001	102016	41.2	41.3	0.3	Tetrachloro-m-xylene
13.900	-0.003	273909	14.127	-0.002	199531	46.8	41.6	11.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259175	-42.1
Hexabromobiphenyl	798898	638343	-20.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	180225	-27.6
Hexabromobiphenyl	362541	337549	-6.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.288	-0.007	24004	277.6	1	7.270	-0.001	24560	266.5
Aroclor-1016	2	7.671	-0.013	76709	274.8	2	7.869	-0.003	42518	213.9
Aroclor-1016	3	7.808	-0.010	32547	257.3	3	8.067	-0.004	22274	261.0
Aroclor-1016	4	8.419	-0.010	22799	282.7	4	8.237	-0.004	12945	288.4
	Total Col1Ave (4 peaks):				273.1	Total Col2Ave (4 peaks):				257.5 RPD = 6
	Corrected Ave (3 peaks):				269.9	Corrected Ave (3 peaks):				247.2 RPD = 9
			CalAmt %D:		9.3			CalAmt %D:		3.0
Aroclor-1260	1	11.053	-0.009	64688	278.4	1	11.660	-0.003	44649	250.6
Aroclor-1260	2	11.370	-0.007	67024	278.9	2	11.922	-0.004	63634	142.3
Aroclor-1260	3	11.743	-0.009	174735	276.7	3	12.441	-0.003	29594	248.6
Aroclor-1260	4	12.145	-0.013	88469	275.1	4	12.506	-0.003	48456	162.6
Aroclor-1260	5	12.253	-0.008	38181	290.0	NS	---			----
	Total Col1Ave (5 peaks):				279.8	Total Col2Ave (4 peaks):				201.0 RPD = 33
	Corrected Ave (4 peaks):				277.3	Corrected Ave (3 peaks):				184.5 RPD = 40*
			CalAmt %D:		11.9			CalAmt %D:		-19.6

Total PCB Area Col1 (5.932 - 13.803) = 1711502 Col1 Total PCB = 0.7 ppm*

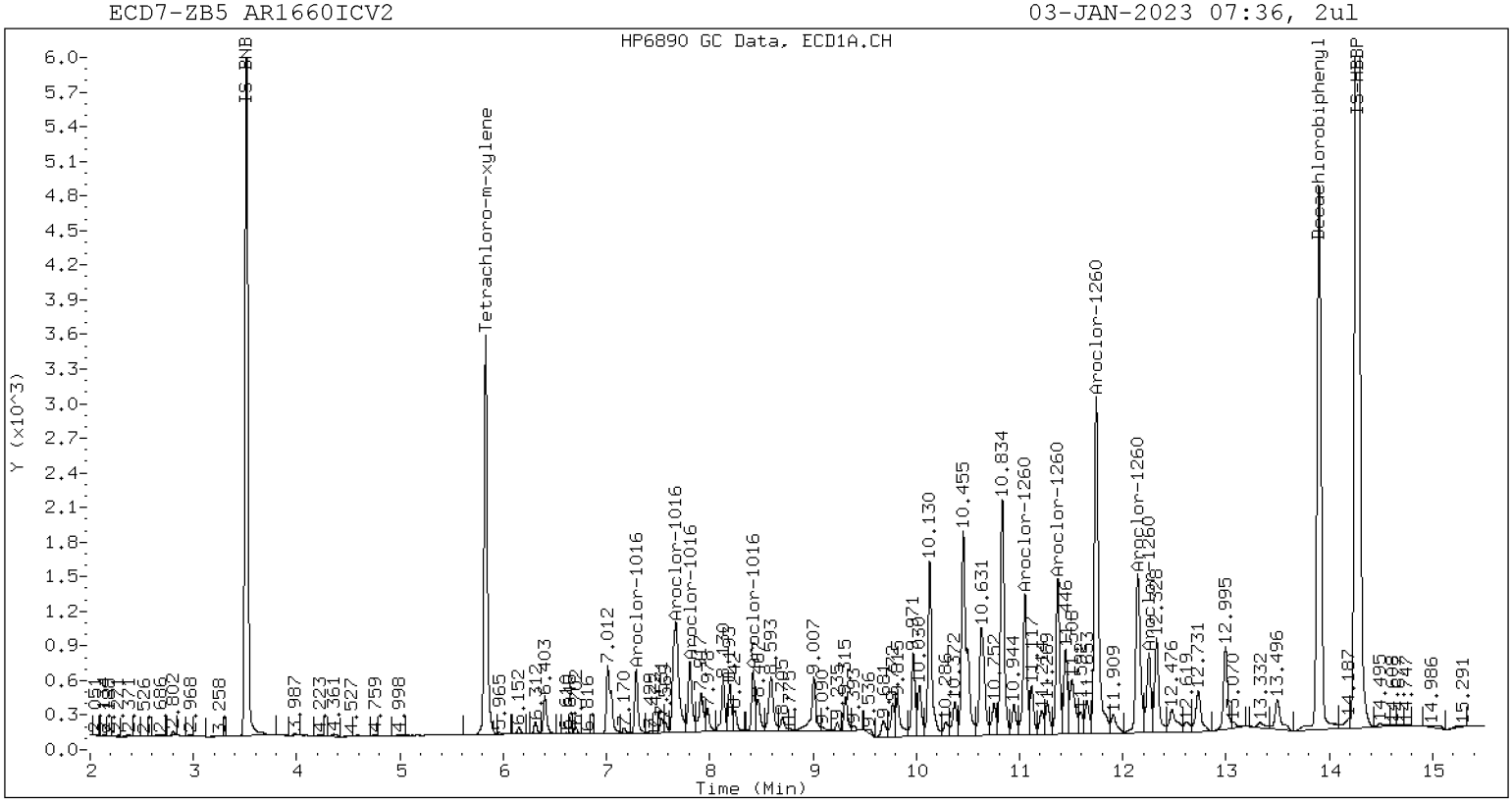
Total PCB Area Col2 (5.808 - 14.029) = 904180 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

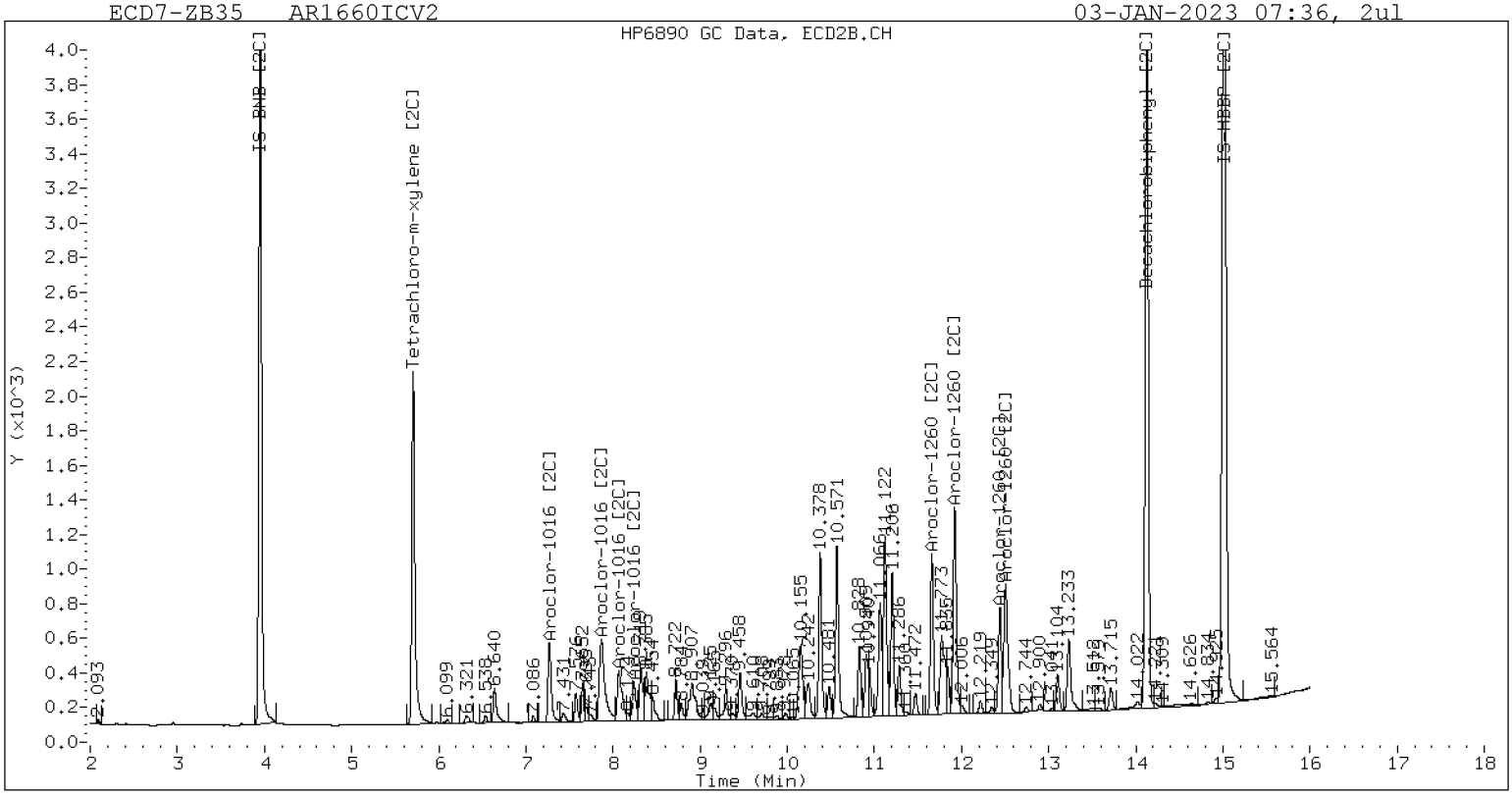
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 03-JAN-2023 07:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 03-JAN-2023 07:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-ICV1	Injection Time:	09:44
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	280	0.0576965	0.0652431		12.0	+/-20
Aroclor-1254 (1)	A	250.00	251	0.0704377	0.0707981			
Aroclor-1254 (2)	A	250.00	288	0.0273935	0.0315038			
Aroclor-1254 (3)	A	250.00	241	0.0444885	0.0429596			
Aroclor-1254 (4)	A	250.00	308	0.0867185	0.1066710			
Aroclor-1254 (5)	A	250.00	312	0.0594444	0.0742831			
Aroclor 1254 [2C]	A	250.00	249	0.0638047	0.0654817		-0.3	+/-20
Aroclor-1254 (1) [2C]	A	250.00	259	0.0515798	0.0533985			
Aroclor-1254 (2) [2C]	A	250.00	152	0.0414689	0.0252486			
Aroclor-1254 (3) [2C]	A	250.00	235	0.0891370	0.0839134			
Aroclor-1254 (4) [2C]	A	250.00	304	0.0923140	0.1121807			
Aroclor-1254 (5) [2C]	A	250.00	296	0.0445236	0.0526673			
Decachlorobiphenyl	A	40.000	45.9	0.7333327	0.8418839		14.8	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0535180		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1702320		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0144400		-7.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042302ECD7.D
Data file 2: /230104.b/230104.b/01042302ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254ICV1
Client ID:
Injection Date: 04-JAN-2023 09:44
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	180367	5.708	0.001	117429	37.2	37.0	0.5	Tetrachloro-m-xylene
13.906	0.004	321044	14.129	0.001	228799	45.9	41.2	10.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	342409	-23.5
Hexabromobiphenyl	798898	762680	-4.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	231515	-7.1
Hexabromobiphenyl	362541	391032	7.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.313	-0.008	75756	251.3	1	9.460	0.000	38633	258.8
Aroclor-1254	2	9.392	-0.010	33710	287.5	2	9.978	-0.000	18267	152.2
Aroclor-1254	3	9.684	-0.010	45968	241.4	3	10.129	0.000	60710	235.3
Aroclor-1254	4	9.819	-0.012	114141	307.5	4	10.377	0.000	81161	303.8
Aroclor-1254	5	10.175	-0.015	79485	312.4	5	10.575	-0.000	38104	295.7
Total Col1Ave (5 peaks):					280.0	Total Col2Ave (5 peaks):				249.2 RPD = 12
Corrected Ave (4 peaks):					271.9	Corrected Ave (4 peaks):				235.5 RPD = 14
CalAmt %D:					12.0	CalAmt %D:				-0.3

Total PCB Area Col1 (5.930 - 13.802) = 1185218 Col1 Total PCB = 0.4 ppm*

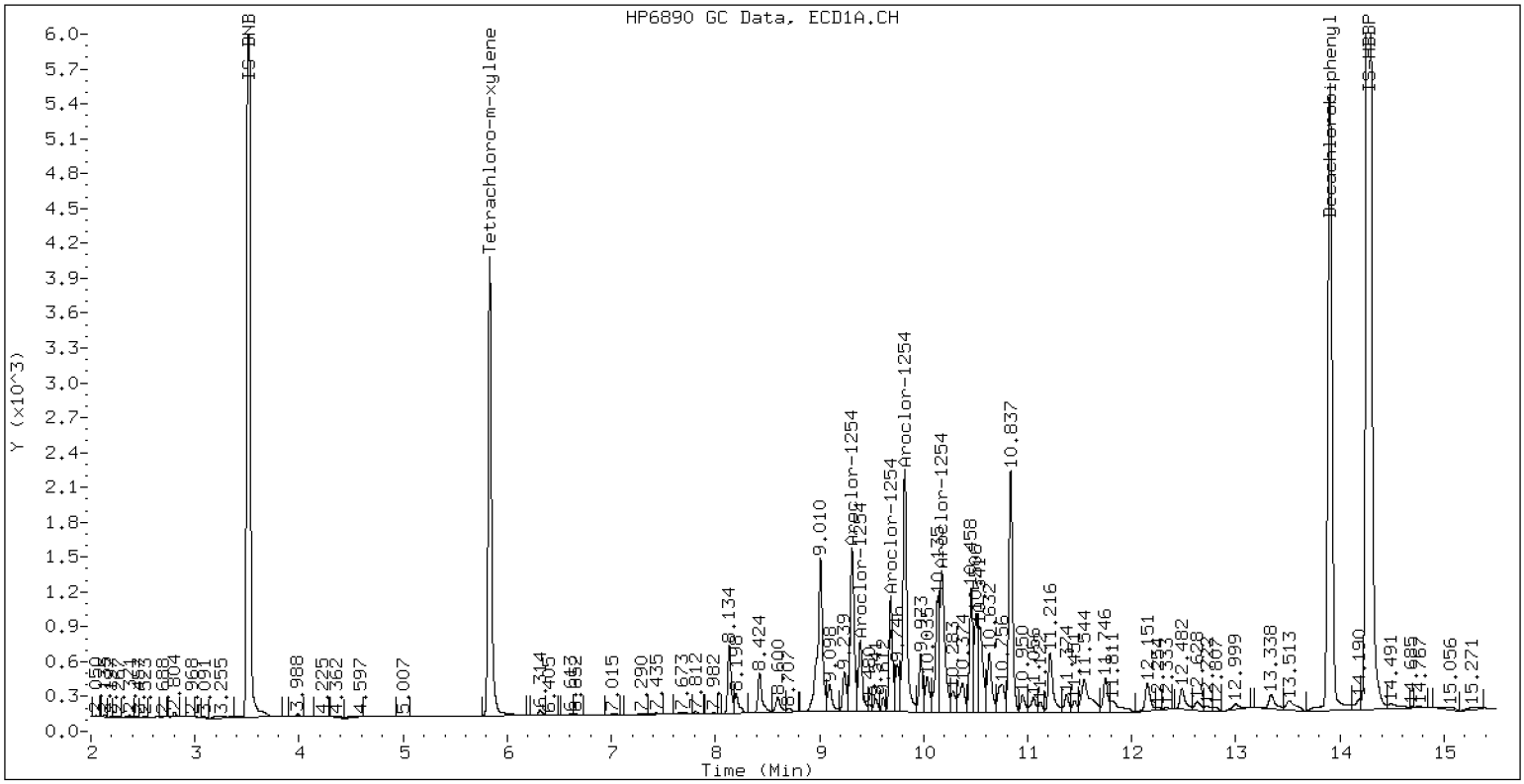
Total PCB Area Col2 (5.807 - 14.028) = 687186 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

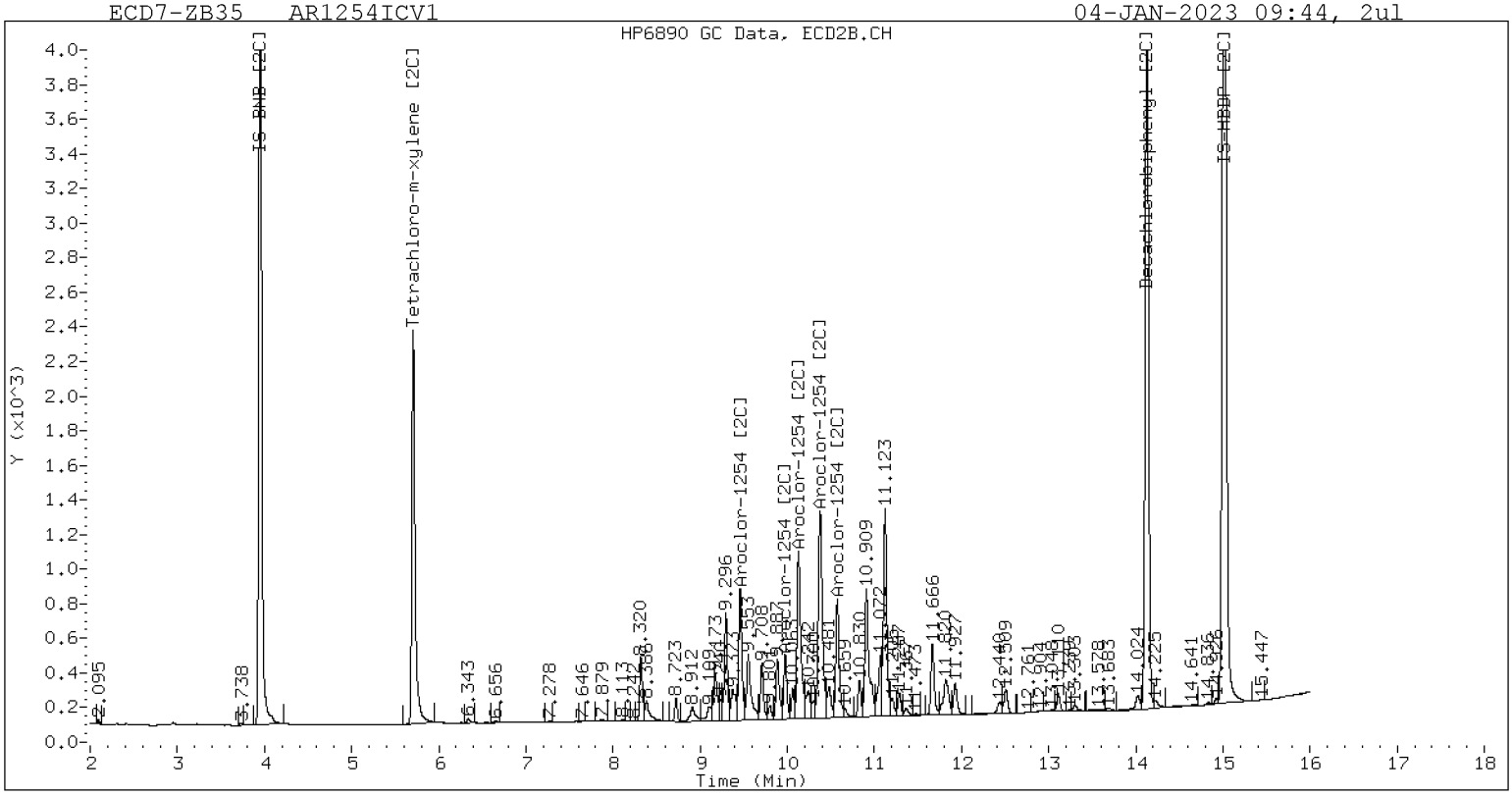
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254ICV1 04-JAN-2023 09:44, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254ICV1 04-JAN-2023 09:44, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-ICV2	Injection Time:	10:05
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	325	0.0441939	0.0551597		30.0	+/-20 *
Aroclor-1016 (1)	A	250.00	329	0.0266860	0.0351546		31.6	
Aroclor-1016 (2)	A	250.00	289	0.0861572	0.0997044		15.6	
Aroclor-1016 (3)	A	250.00	315	0.0390425	0.0492172		26.0	
Aroclor-1016 (4)	A	250.00	367	0.0248899	0.0365628		46.8	
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0432495		-1.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	255	0.0409030	0.0417488		2.0	
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0714520		-19.2	
Aroclor-1016 (3) [2C]	A	250.00	251	0.0378846	0.0379780		0.4	
Aroclor-1016 (4) [2C]	A	250.00	274	0.0199212	0.0218190		9.6	
Aroclor 1260	A	250.00	266	0.0390342	0.0411129		6.2	+/-20
Aroclor-1260 (1)	A	250.00	266	0.0291201	0.0309703		6.4	
Aroclor-1260 (2)	A	250.00	264	0.0301181	0.0318360		5.6	
Aroclor-1260 (3)	A	250.00	261	0.0791351	0.0827749		4.4	
Aroclor-1260 (4)	A	250.00	257	0.0403003	0.0414802		2.8	
Aroclor-1260 (5)	A	250.00	280	0.0164974	0.0185029		12.0	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0462727		-17.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	240	0.0422283	0.0405690		-4.0	
Aroclor-1260 (2) [2C]	A	250.00	158	0.1059643	0.0668881		-36.8	
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0281774		0.0	
Aroclor-1260 (4) [2C]	A	250.00	175	0.0706376	0.0494562		-30.0	
Decachlorobiphenyl	A	40.000	45.9	0.7333327	0.8416208		14.8	+/-20
Tetrachlorometaxylene	A	40.000	41.2	1.1336710	1.1663760		3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.2	1.1358180	1.1416330		0.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0981040		0.0	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042303ECD7.D
Data file 2: /230104.b/230104.b/01042303ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660ICV2
Client ID:
Injection Date: 04-JAN-2023 10:05
Report Date: 01/09/2023 14:47
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	144584	5.707	0.000	91790	41.2	40.1	2.7	Tetrachloro-m-xylene
13.903	0.002	263490	14.129	0.001	179100	45.9	40.2	13.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	247920	-44.6
Hexabromobiphenyl	798898	626149	-21.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	167179	-32.9
Hexabromobiphenyl	362541	313761	-13.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	0.001	27236	329.3	1	7.271	0.001	21811	255.2
Aroclor-1016	2	7.676	-0.001	77246	289.3	2	7.871	0.001	37329	202.5
Aroclor-1016	3	7.811	-0.001	38131	315.2	3	8.070	0.001	19841	250.6
Aroclor-1016	4	8.423	0.002	28327	367.2	4	8.241	0.001	11399	273.8
Total Col1Ave (4 peaks):					325.3	Total Col2Ave (4 peaks):				245.5 RPD = 28
Corrected Ave (3 peaks):					311.3	Corrected Ave (3 peaks):				236.1 RPD = 27
CalAmt %D:					30.1	CalAmt %D:				-1.8
Aroclor-1260	1	11.056	-0.000	60600	265.9	1	11.662	0.002	39778	240.2
Aroclor-1260	2	11.373	0.001	62294	264.3	2	11.925	0.001	65584	157.8
Aroclor-1260	3	11.746	0.000	161967	261.5	3	12.444	0.002	27628	249.6
Aroclor-1260	4	12.150	0.000	81165	257.3	4	12.509	0.003	48492	175.0
Aroclor-1260	5	12.256	0.002	36205	280.4	NS	---			----
Total Col1Ave (5 peaks):					265.9	Total Col2Ave (4 peaks):				205.7 RPD = 26
Corrected Ave (4 peaks):					262.2	Corrected Ave (3 peaks):				191.0 RPD = 31
CalAmt %D:					6.3	CalAmt %D:				-17.7

Total PCB Area Col1 (5.930 - 13.802) = 1810715 Col1 Total PCB = 0.8 ppm*

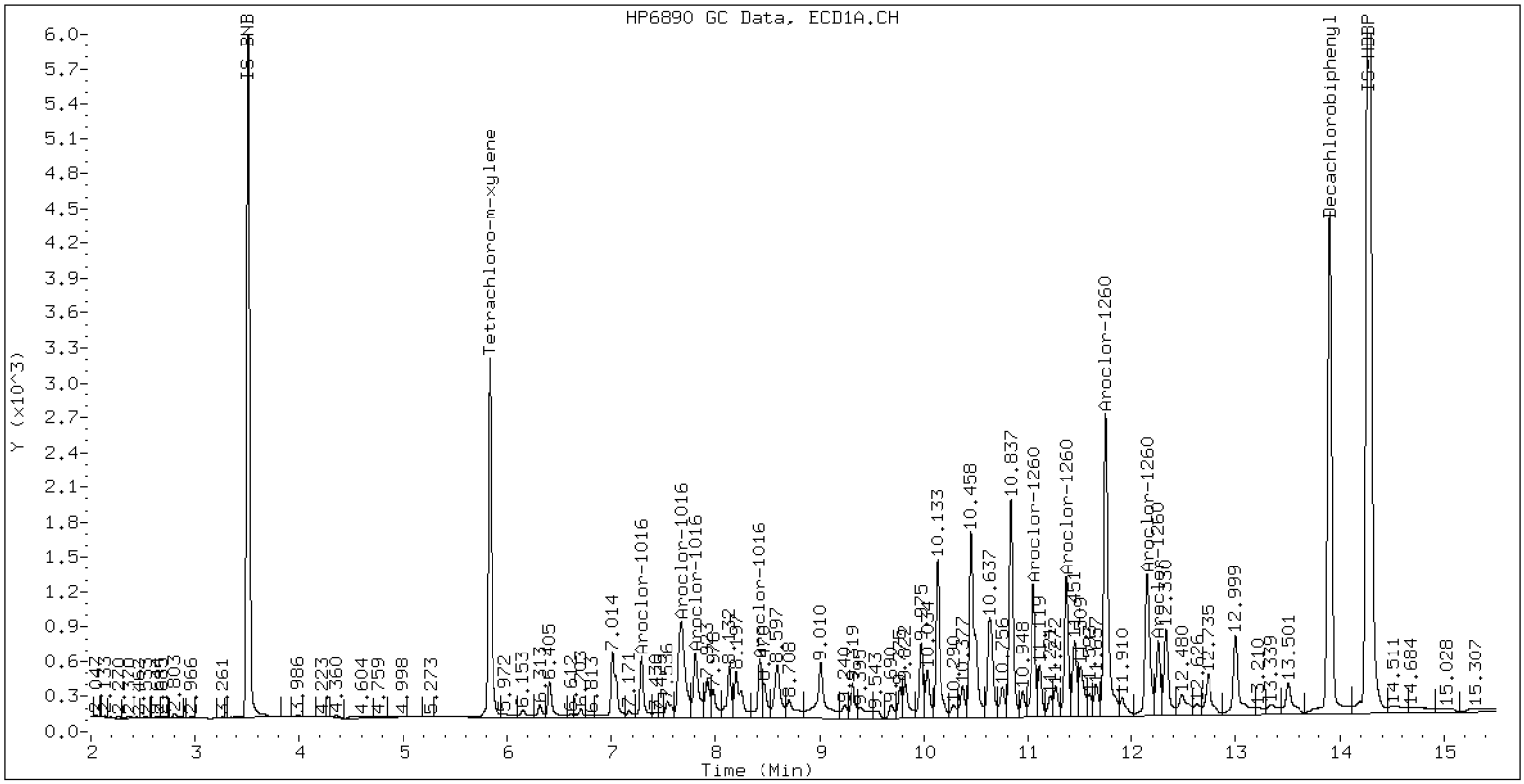
Total PCB Area Col2 (5.807 - 14.028) = 830140 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

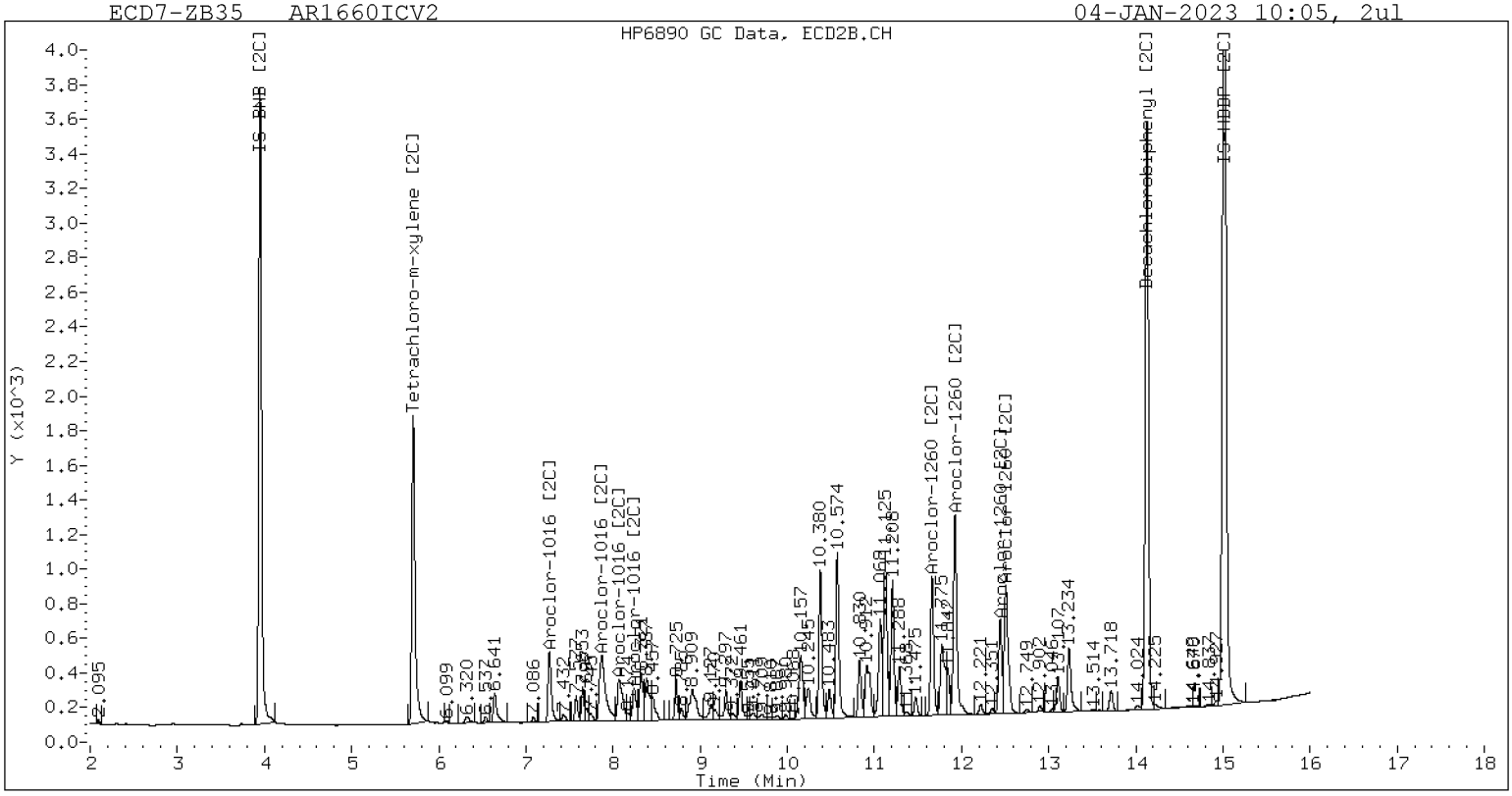
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660ICV2 04-JAN-2023 10:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660ICV2 04-JAN-2023 10:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092302ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-ICV1	Injection Time:	09:24
Sequence Name:	AR1254ICV1		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1254	A	250.00	286	0.0576965	0.0668078		14.4	+/-20
Aroclor-1254 (1)	A	250.00	292	0.0704377	0.0824052			
Aroclor-1254 (2)	A	250.00	280	0.0273935	0.0307014			
Aroclor-1254 (3)	A	250.00	259	0.0444885	0.0460314			
Aroclor-1254 (4)	A	250.00	298	0.0867185	0.1032987			
Aroclor-1254 (5)	A	250.00	301	0.0594444	0.0716021			
Aroclor 1254 [2C]	A	250.00	291	0.0638047	0.0745795		16.5	+/-20
Aroclor-1254 (1) [2C]	A	250.00	280	0.0515798	0.0578349			
Aroclor-1254 (2) [2C]	A	250.00	288	0.0414689	0.0478304			
Aroclor-1254 (3) [2C]	A	250.00	288	0.0891370	0.1026113			
Aroclor-1254 (4) [2C]	A	250.00	303	0.0923140	0.1117753			
Aroclor-1254 (5) [2C]	A	250.00	297	0.0445236	0.0528458			
Decachlorobiphenyl	A	40.000	41.4	0.7333327	0.7581264		3.4	+/-20
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1107310		-2.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1582610		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.7	1.0966080	1.0616640		-3.2	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092302ECD7.D
Data file 2: /230109.b/230109.b/01092302ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254I-CV1
Client ID:
Injection Date: 09-JAN-2023 09:24
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	266054	5.706	-0.007	173814	39.2	38.7	1.2	Tetrachloro-m-xylene
13.905	-0.003	463191	14.127	-0.010	361004	41.4	40.8	1.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	479061	7.0
Hexabromobiphenyl	798898	1221936	53.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	327437	31.5
Hexabromobiphenyl	362541	623355	71.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.313	-0.008	123366	292.5	1	9.458	-0.009	59179	280.3
Aroclor-1254	2	9.391	-0.010	45962	280.2	2	9.978	-0.009	48942	288.4
Aroclor-1254	3	9.682	-0.012	68912	258.7	3	10.130	-0.009	104996	287.8
Aroclor-1254	4	9.821	-0.010	154645	297.8	4	10.380	-0.009	114373	302.7
Aroclor-1254	5	10.184	-0.006	107193	301.1	5	10.576	-0.011	54074	296.7

Total Col1Ave (5 peaks): 286.1 Total Col2Ave (5 peaks): 291.2 RPD = 2

Corrected Ave (4 peaks): 282.3 Corrected Ave (4 peaks): 288.3 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 1587253 Col1 Total PCB = 0.3 ppm*

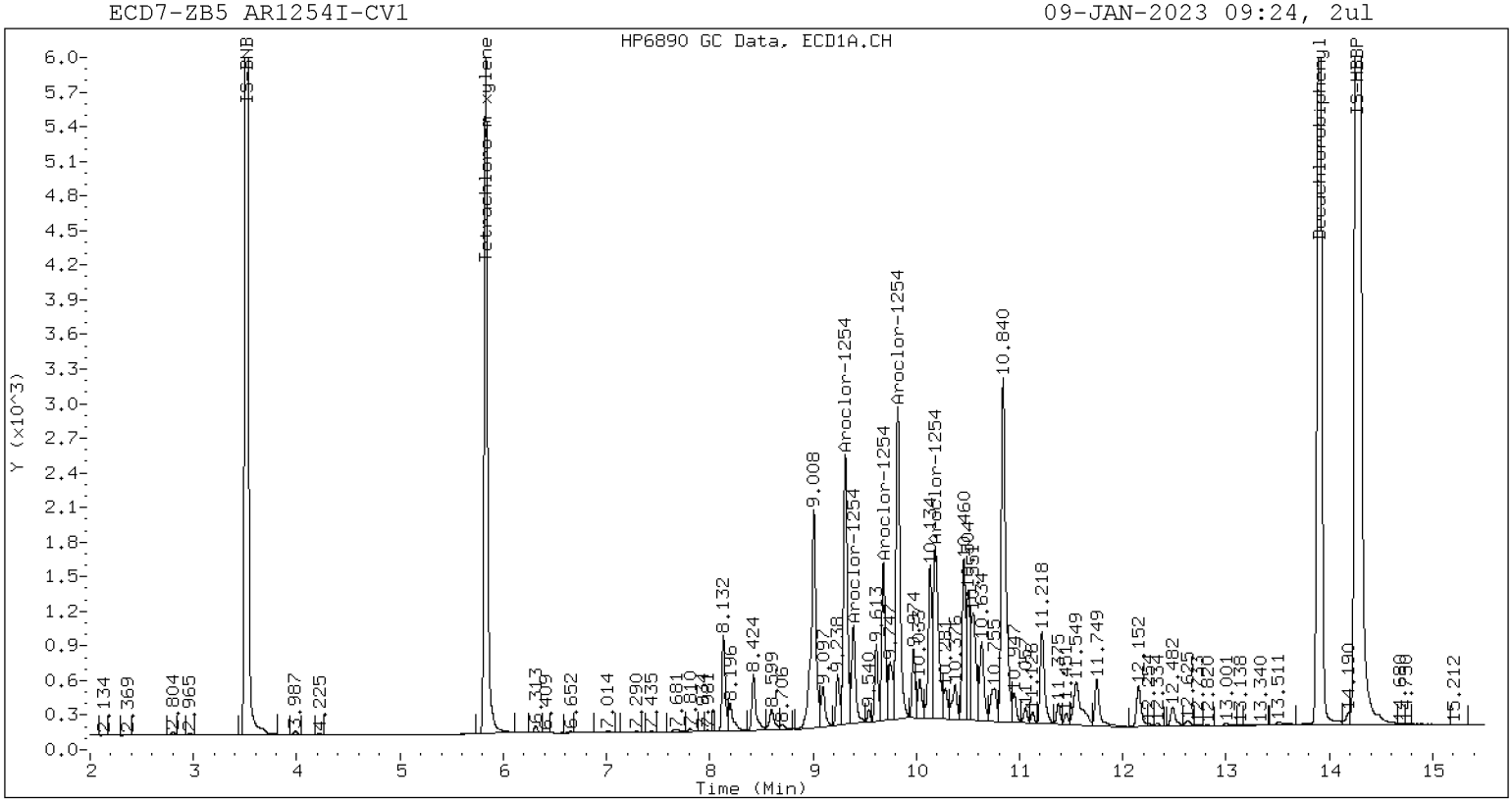
Total PCB Area Col2 (5.813 - 14.037) = 1014483 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

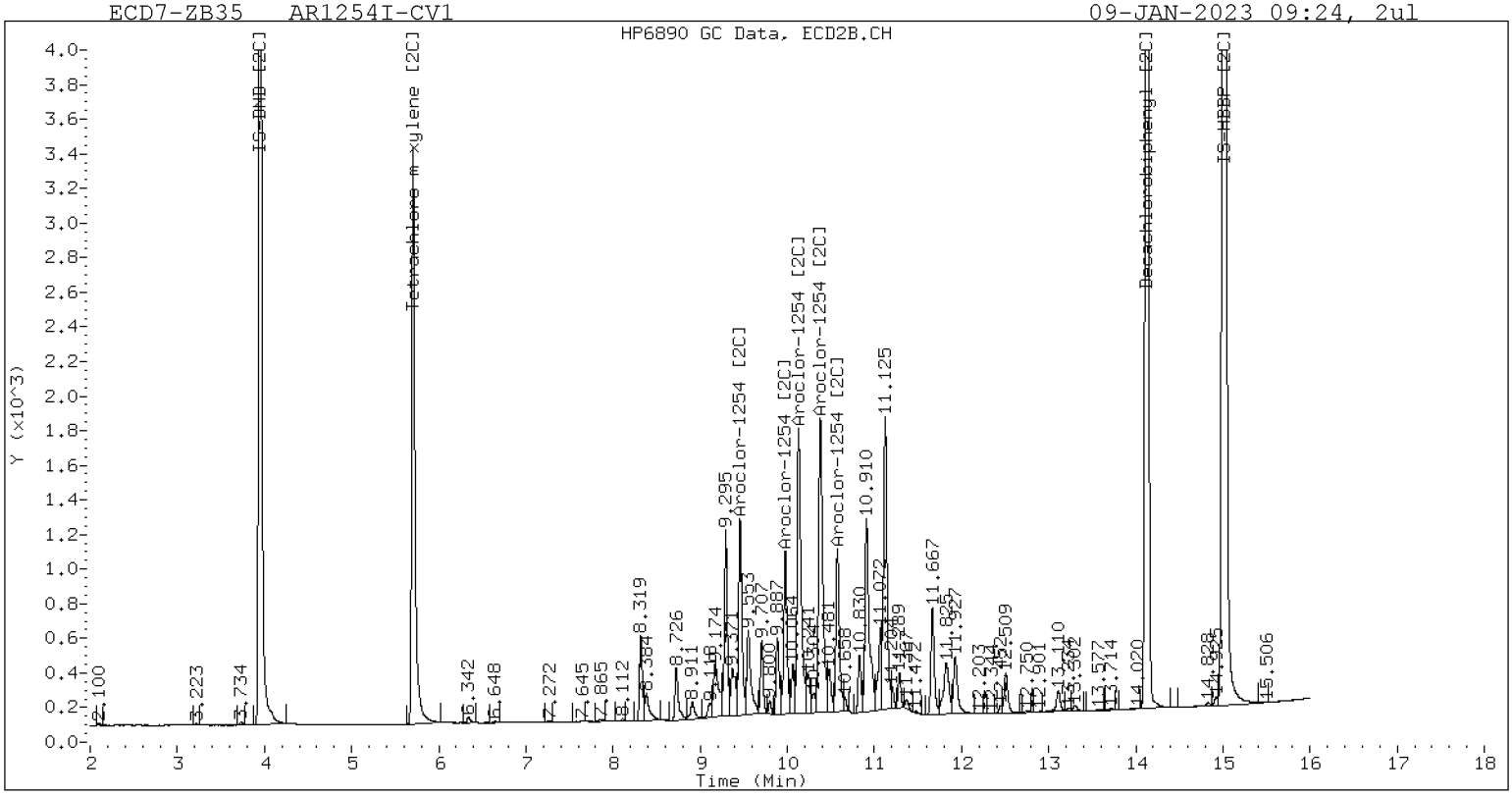
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254I-CV1 09-JAN-2023 09:24, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254I-CV1 09-JAN-2023 09:24, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092303ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-ICV2	Injection Time:	09:46
Sequence Name:	AR1660ICV2		

		CONC. (ug/L)		RESPONSE FACTOR			% DRIFT/DIFF	
COMPOUND	TYPE	STD	ICV	ICAL	ICV	MIN	ICV	LIMIT
Aroclor 1016	A	250.00	279	0.0441939	0.0490148		11.5	+/-20
Aroclor-1016 (1)	A	250.00	275	0.0266860	0.0293171		9.9	
Aroclor-1016 (2)	A	250.00	274	0.0861572	0.0943600		9.5	
Aroclor-1016 (3)	A	250.00	281	0.0390425	0.0439524		12.6	
Aroclor-1016 (4)	A	250.00	286	0.0248899	0.0284298		14.2	
Aroclor 1016 [2C]	A	250.00	259	0.0467310	0.0481720		3.4	+/-20
Aroclor-1016 (1) [2C]	A	250.00	258	0.0409030	0.0421515		3.1	
Aroclor-1016 (2) [2C]	A	250.00	257	0.0882154	0.0908271		3.0	
Aroclor-1016 (3) [2C]	A	250.00	255	0.0378846	0.0386974		2.1	
Aroclor-1016 (4) [2C]	A	250.00	264	0.0199212	0.0210121		5.5	
Aroclor 1260	A	250.00	237	0.0390342	0.0370330		-5.3	+/-20
Aroclor-1260 (1)	A	250.00	229	0.0291201	0.0266767		-8.4	
Aroclor-1260 (2)	A	250.00	236	0.0301181	0.0284217		-5.6	
Aroclor-1260 (3)	A	250.00	239	0.0791351	0.0757573		-4.3	
Aroclor-1260 (4)	A	250.00	238	0.0403003	0.0384324		-4.6	
Aroclor-1260 (5)	A	250.00	241	0.0164974	0.0158768		-3.8	
Aroclor 1260 [2C]	A	250.00	241	0.0617619	0.0597157		-3.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	236	0.0422283	0.0398746		-5.6	
Aroclor-1260 (2) [2C]	A	250.00	241	0.1059643	0.1021597		-3.6	
Aroclor-1260 (3) [2C]	A	250.00	239	0.0282173	0.0269709		-4.4	
Aroclor-1260 (4) [2C]	A	250.00	247	0.0706376	0.0698574		-1.1	
Decachlorobiphenyl	A	40.000	39.7	0.7333327	0.7286194		-0.6	+/-20
Tetrachlorometaxylene	A	40.000	43.1	1.1336710	1.2201620		7.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1638560		2.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.8	1.0966080	1.1455400		4.5	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092303ECD7.D
Data file 2: /230109.b/230109.b/01092303ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-ICV2
Client ID:
Injection Date: 09-JAN-2023 09:46
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	289545	5.708	-0.005	188537	43.1	41.8	3.0	Tetrachloro-m-xylene
13.903	-0.005	466190	14.128	-0.009	366077	39.7	41.0	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	474601	6.0
Hexabromobiphenyl	798898	1279653	60.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	329167	32.1
Hexabromobiphenyl	362541	629076	73.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.007	43481	274.6	1	7.270	-0.005	43359	257.6
Aroclor-1016	2	7.674	-0.010	139948	273.8	2	7.869	-0.001	93429	257.4
Aroclor-1016	3	7.809	-0.009	65187	281.4	3	8.068	-0.002	39806	255.4
Aroclor-1016	4	8.421	-0.008	42165	285.6	4	8.239	-0.002	21614	263.7
	Total Col1Ave (4 peaks):				278.9	Total Col2Ave (4 peaks):				258.5 RPD = 8
	Corrected Ave (3 peaks):				276.6	Corrected Ave (3 peaks):				256.8 RPD = 7
Aroclor-1260	1	11.056	-0.006	106678	229.0	1	11.662	-0.007	78388	236.1
Aroclor-1260	2	11.373	-0.004	113656	235.9	2	11.926	-0.006	200832	241.0
Aroclor-1260	3	11.746	-0.006	302947	239.3	3	12.444	-0.008	53021	239.0
Aroclor-1260	4	12.149	-0.009	153688	238.4	4	12.509	-0.007	137330	247.2
Aroclor-1260	5	12.255	-0.006	63490	240.6	NS	---			----
	Total Col1Ave (5 peaks):				236.7	Total Col2Ave (4 peaks):				240.8 RPD = 2
	Corrected Ave (4 peaks):				235.7	Corrected Ave (3 peaks):				238.7 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 2930602 Col1 Total PCB = 0.6 ppm*

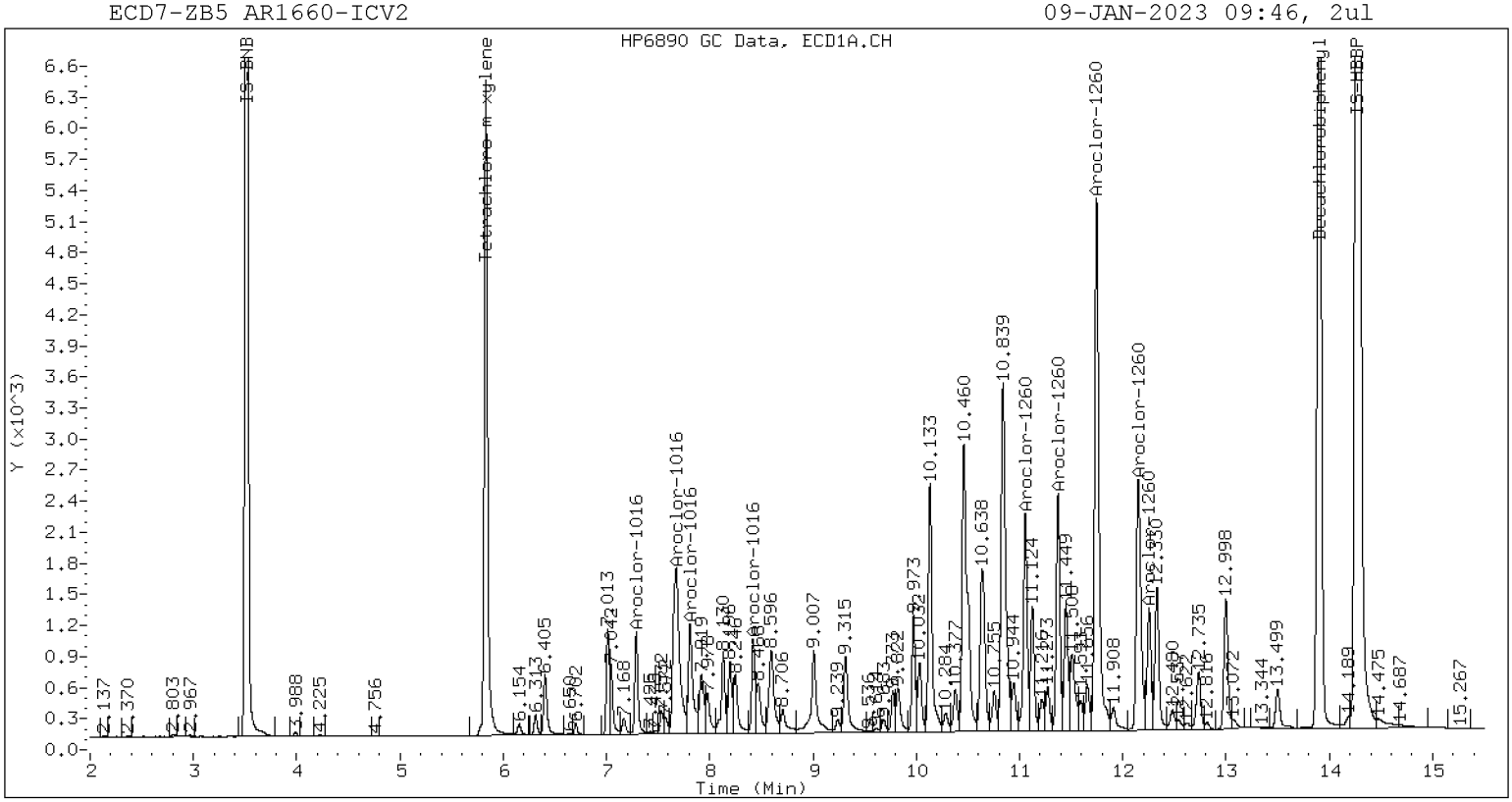
Total PCB Area Col2 (5.813 - 14.037) = 1817490 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

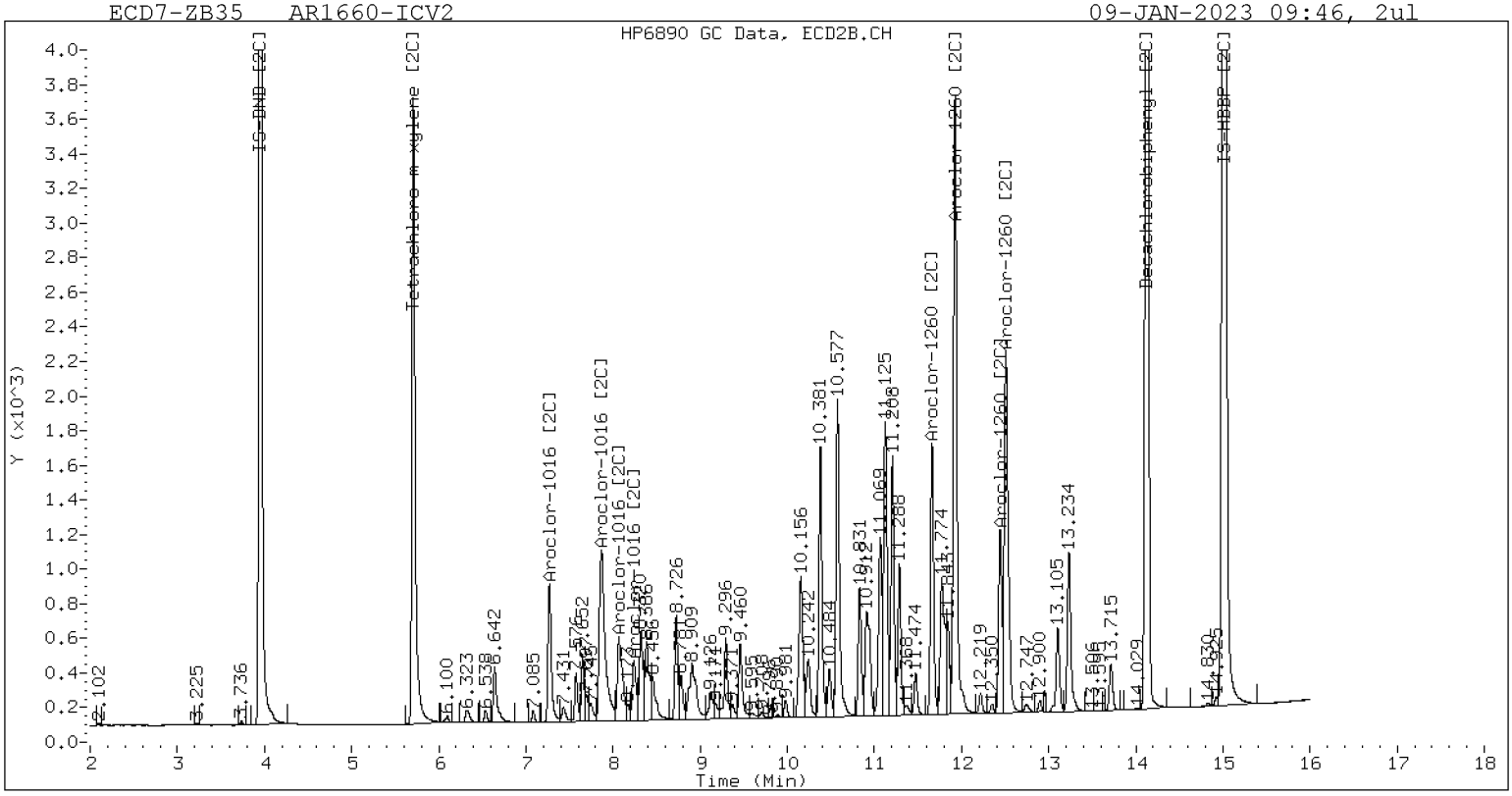
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-ICV2 09-JAN-2023 09:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-ICV2 09-JAN-2023 09:46, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032222ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV1	Injection Time:	22:13
Sequence Name:	AR1660SCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	223	0.0441939	0.0392295		-10.7	+/-20
Aroclor 1016 [2C]	A	250.00	216	0.0467310	0.0403426		-13.5	+/-20
Aroclor 1260	A	250.00	285	0.0390342	0.0441447		14.1	+/-20
Aroclor 1260 [2C]	A	250.00	263	0.0617619	0.0651122		5.1	+/-20
Decachlorobiphenyl	A	40.000	39.8	0.7333327	0.7297174		-0.5	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0237520		-9.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.2	1.1358180	1.0840850		-4.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.1	1.0966080	0.9886519		-9.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032222ECD7.D
Data file 2: /221203.b/221203.b/12032222ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660SCV1
Client ID:
Injection Date: 03-DEC-2022 22:13
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	247495	5.714	0.000	133904	36.1	36.1	0.2	Tetrachloro-m-xylene
13.909	0.001	325466	14.137	0.000	234467	39.8	38.2	4.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483506	8.0
Hexabromobiphenyl	798898	892033	11.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270882	8.7
Hexabromobiphenyl	362541	432562	19.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.293	0.001	36100	223.8	1	7.277	0.002	30155	217.7
Aroclor-1016	2	7.681	0.007	113995	218.9	2	7.875	0.004	64468	215.8
Aroclor-1016	3	7.815	0.004	53043	224.8	3	8.074	0.004	27130	211.5
Aroclor-1016	4	8.428	0.004	33958	225.7	4	8.245	0.004	14848	220.1
Total Col1Ave (4 peaks):					223.3	Total Col2Ave (4 peaks):				216.3 RPD = 3
Corrected Ave (3 peaks):					222.5	Corrected Ave (3 peaks):				215.0 RPD = 3
Aroclor-1260	1	11.063	0.001	93173	286.9	1	11.671	0.002	56796	248.7
Aroclor-1260	2	11.380	0.003	95530	284.5	2	11.935	0.002	153247	267.5
Aroclor-1260	3	11.754	0.004	250548	283.9	3	12.452	0.001	41316	270.8
Aroclor-1260	4	12.159	0.005	120399	267.9	4	12.519	0.003	100704	263.7
Aroclor-1260	5	12.263	0.003	55639	302.5	NS	---			----
Total Col1Ave (5 peaks):					285.1	Total Col2Ave (4 peaks):				262.7 RPD = 8
Corrected Ave (4 peaks):					280.8	Corrected Ave (3 peaks):				260.0 RPD = 8

Total PCB Area Col1 (5.936 - 13.808) = 2318083 Col1 Total PCB = 0.4 ppm*

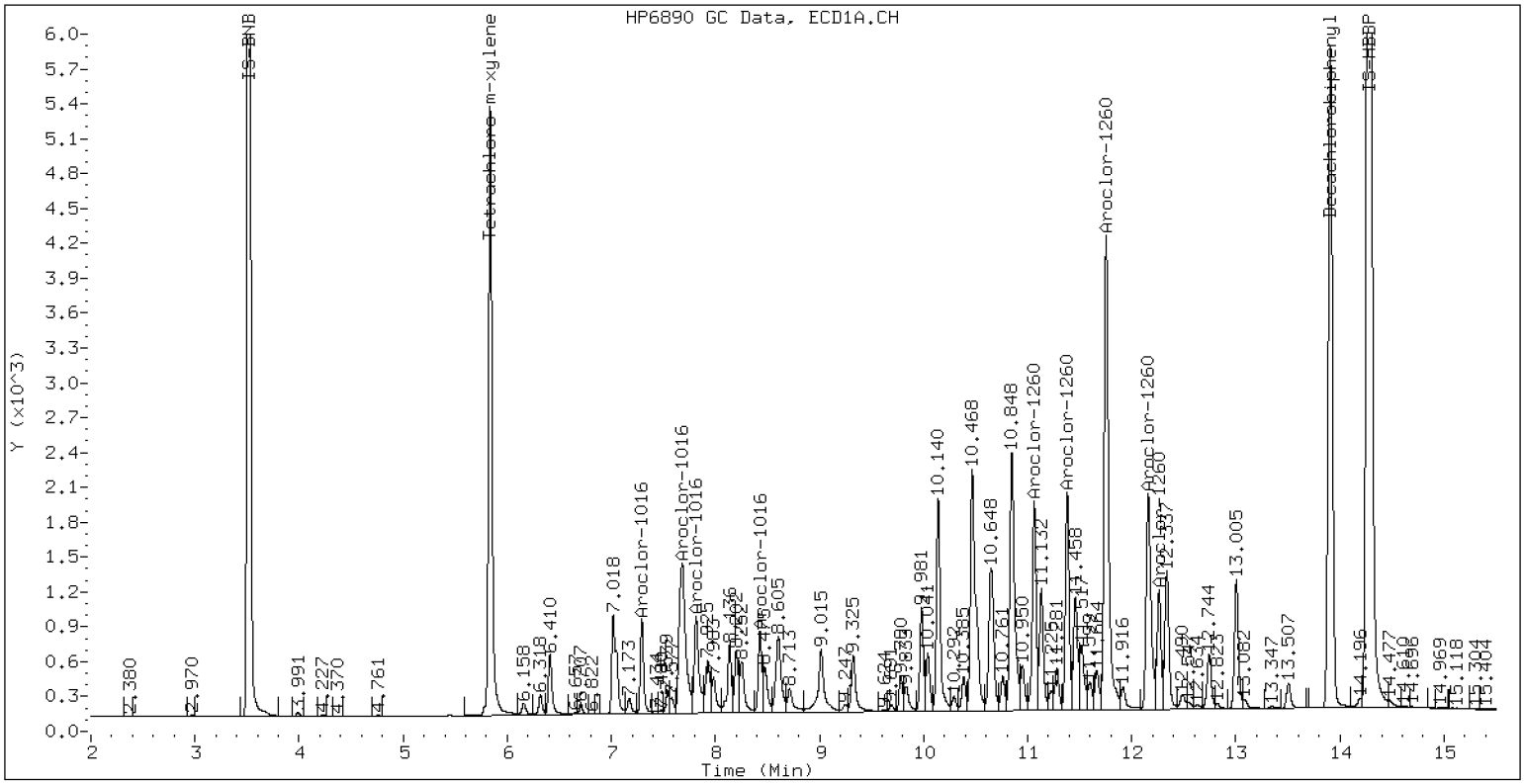
Total PCB Area Col2 (5.936 - 13.808) = 1275603 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

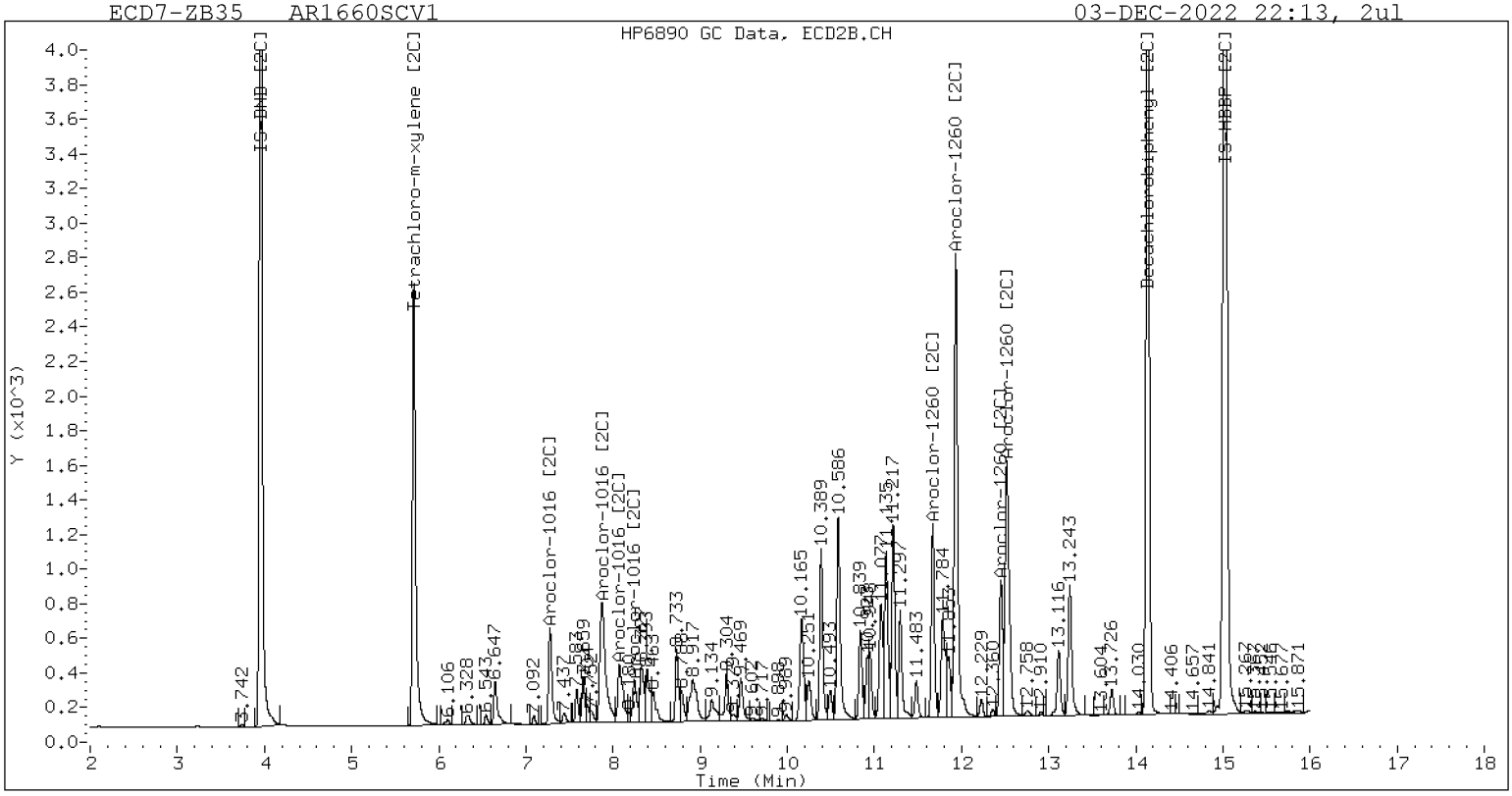
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660SCV1 03-DEC-2022 22:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032223ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV2	Injection Time:	22:34
Sequence Name:	AR1242SCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	207	0.0396000	0.0328545		-17.3	+/-20
Aroclor 1242 [2C]	A	250.00	225	0.0391981	0.0342776		-10.0	+/-20
Decachlorobiphenyl	A	40.000	39.1	0.7333327	0.7176455		-2.1	+/-20
Tetrachlorometaxylene	A	40.000	35.6	1.1336710	1.0081550		-11.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.0	1.1358180	1.0793200		-5.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.8	1.0966080	0.9816931		-10.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032223ECD7.D
Data file 2: /221203.b/221203.b/12032223ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242SCV2
Client ID:
Injection Date: 03-DEC-2022 22:34
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	-0.000	242356	5.713	-0.001	132586	35.6	35.8	0.7	Tetrachloro-m-xylene
13.909	0.001	321690	14.136	-0.001	228130	39.1	38.0	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	480791	7.4
Hexabromobiphenyl	798898	896515	12.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270117	8.4
Hexabromobiphenyl	362541	422729	16.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.294	0.000	26316	193.1	1	7.277	-0.001	23973	209.7
Aroclor-1242	2	7.677	-0.003	89703	207.3	2	7.873	-0.002	50204	206.9
Aroclor-1242	3	8.427	0.000	26786	215.2	3	9.176	-0.002	19686	251.4
Aroclor-1242	4	9.025	-0.005	54647	211.4	4	9.599	-0.006	21874	232.4
Total Col1Ave (4 peaks):					206.7	Total Col2Ave (4 peaks):				225.1 RPD = 9
Corrected Ave (3 peaks):					203.9	Corrected Ave (3 peaks):				216.3 RPD = 6

Total PCB Area Col1 (5.936 - 13.808) = 731052 Col1 Total PCB = 0.1 ppm*

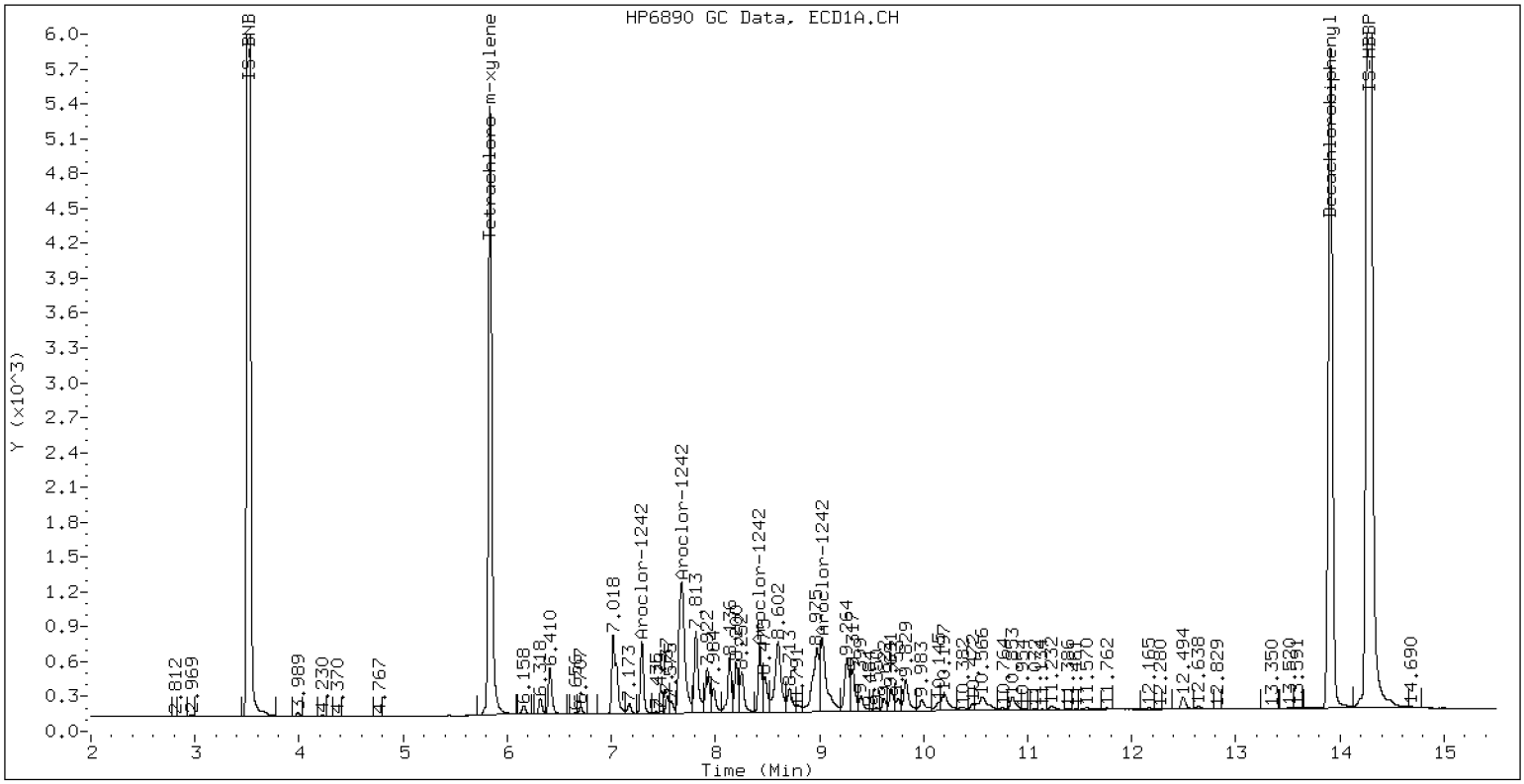
Total PCB Area Col2 (5.936 - 13.808) = 398143 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

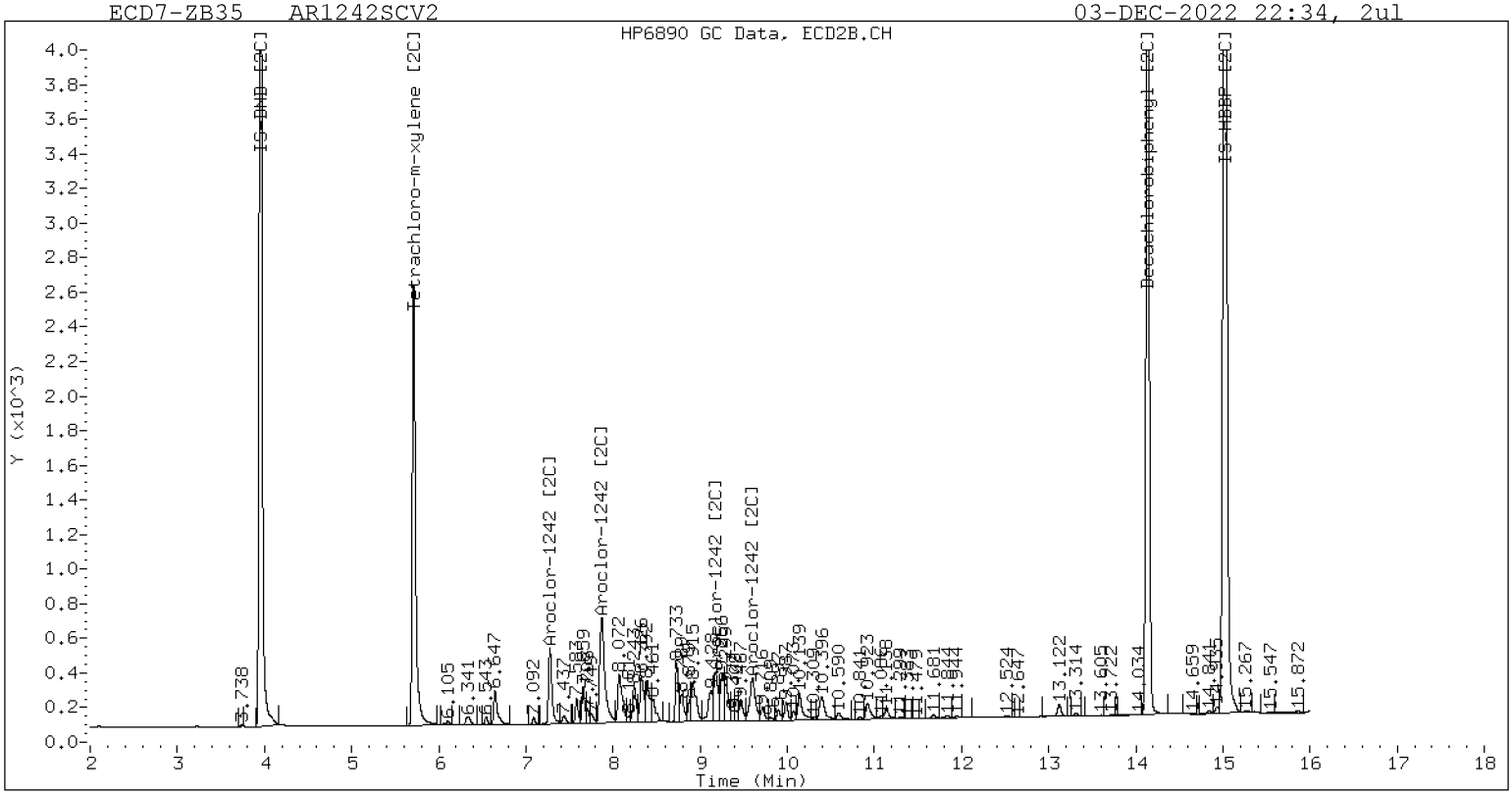
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242SCV2 03-DEC-2022 22:34, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032224ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV3	Injection Time:	22:55
Sequence Name:	AR1248SCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	246	0.0490062	0.0480752		-1.8	+/-20
Aroclor 1248 [2C]	A	250.00	230	0.0394876	0.0363529		-7.9	+/-20
Decachlorobiphenyl	A	40.000	39.3	0.7333327	0.7205014		-1.7	+/-20
Tetrachlorometaxylene	A	40.000	34.7	1.1336710	0.9836260		-13.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0816130		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.1	1.0966080	0.9613644		-12.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032224ECD7.D
Data file 2: /221203.b/221203.b/12032224ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248SCV3
Client ID:
Injection Date: 03-DEC-2022 22:55
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	238518	5.713	-0.001	130772	34.7	35.1	1.0	Tetrachloro-m-xylene
13.909	0.001	329816	14.137	0.000	230748	39.3	38.1	3.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484977	8.3
Hexabromobiphenyl	798898	915518	14.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	272055	9.2
Hexabromobiphenyl	362541	426674	17.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.427	-0.000	49184	235.9	1	8.326	0.000	25647	230.8
Aroclor-1248	2	8.604	0.002	62884	236.2	2	8.733	0.000	26944	230.5
Aroclor-1248	3	9.021	-0.002	117065	244.4	3	9.179	0.001	32692	229.9
Aroclor-1248	4	9.315	0.000	62309	265.6	4	9.604	0.002	38342	229.7
Total Col1Ave (4 peaks): 245.5						Total Col2Ave (4 peaks): 230.2			RPD = 6	
Corrected Ave (3 peaks): 238.8						Corrected Ave (3 peaks): 230.0			RPD = 4	

Total PCB Area Col1 (5.936 - 13.808) = 991353 Col1 Total PCB = 0.2 ppm*

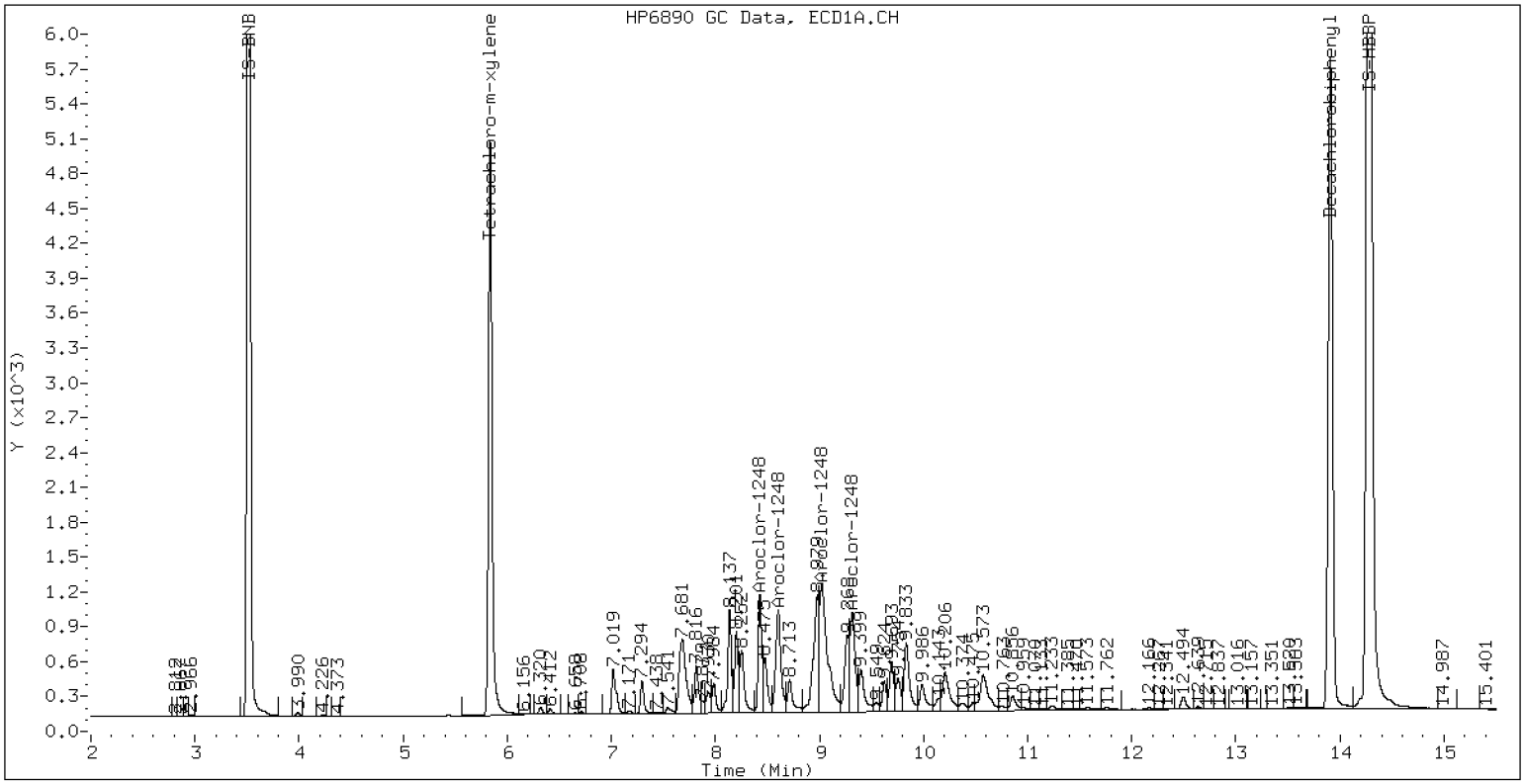
Total PCB Area Col2 (5.936 - 13.808) = 508870 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

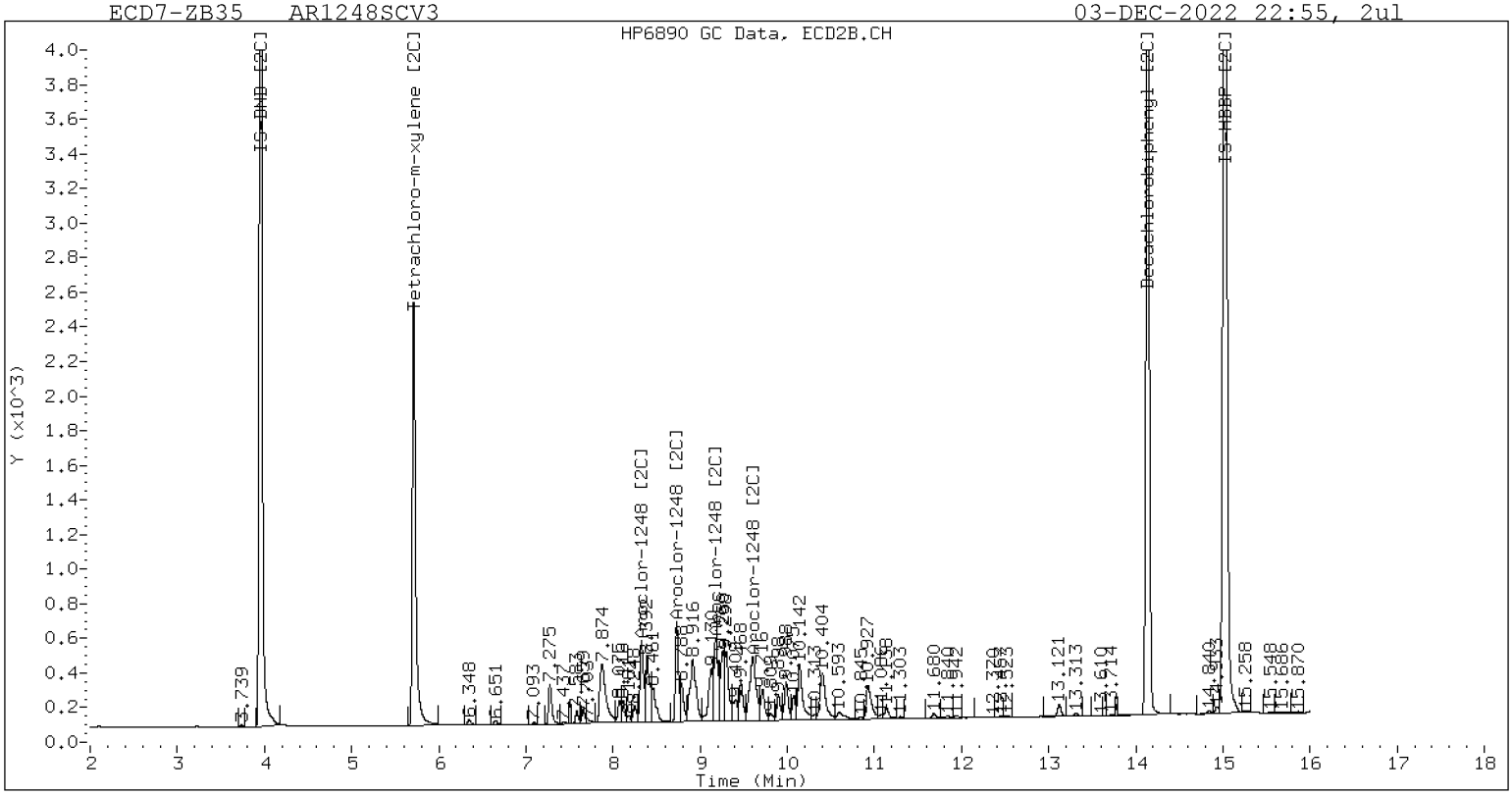
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248SCV3 03-DEC-2022 22:55, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032225ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV4	Injection Time:	23:17
Sequence Name:	AR1254SCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	228	0.0576965	0.0519120		-8.8	+/-20
Aroclor 1254 [2C]	A	250.00	231	0.0638047	0.0582302		-7.7	+/-20
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7250146		-1.1	+/-20
Tetrachlorometaxylene	A	40.000	35.5	1.1336710	1.0063630		-11.2	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.1	1.1358180	1.0811430		-4.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.0	1.0966080	0.9868455		-10.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032225ECD7.D
Data file 2: /221203.b/221203.b/12032225ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254SCV4
Client ID:
Injection Date: 03-DEC-2022 23:17
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.837	0.000	243863	5.713	-0.000	133610	35.5	36.0	1.4	Tetrachloro-m-xylene
13.909	0.001	332566	14.137	-0.000	233115	39.5	38.1	3.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	484642	8.3
Hexabromobiphenyl	798898	917405	14.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270782	8.7
Hexabromobiphenyl	362541	431238	18.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.321	0.003	94448	221.3	1	9.469	0.002	39410	225.7
Aroclor-1254	2	9.401	0.003	41171	248.1	2	9.989	0.002	31415	223.8
Aroclor-1254	3	9.692	0.004	60946	226.1	3	10.143	0.004	66244	219.6
Aroclor-1254	4	9.832	0.004	116490	221.7	4	10.392	0.003	70095	224.3
Aroclor-1254	5	10.199	0.005	80050	222.3	5	10.588	0.002	39206	260.2

Total Col1Ave (5 peaks): 227.9 Total Col2Ave (5 peaks): 230.7 RPD = 1

Corrected Ave (4 peaks): 222.9 Corrected Ave (4 peaks): 223.4 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 1261470 Col1 Total PCB = 0.2 ppm*

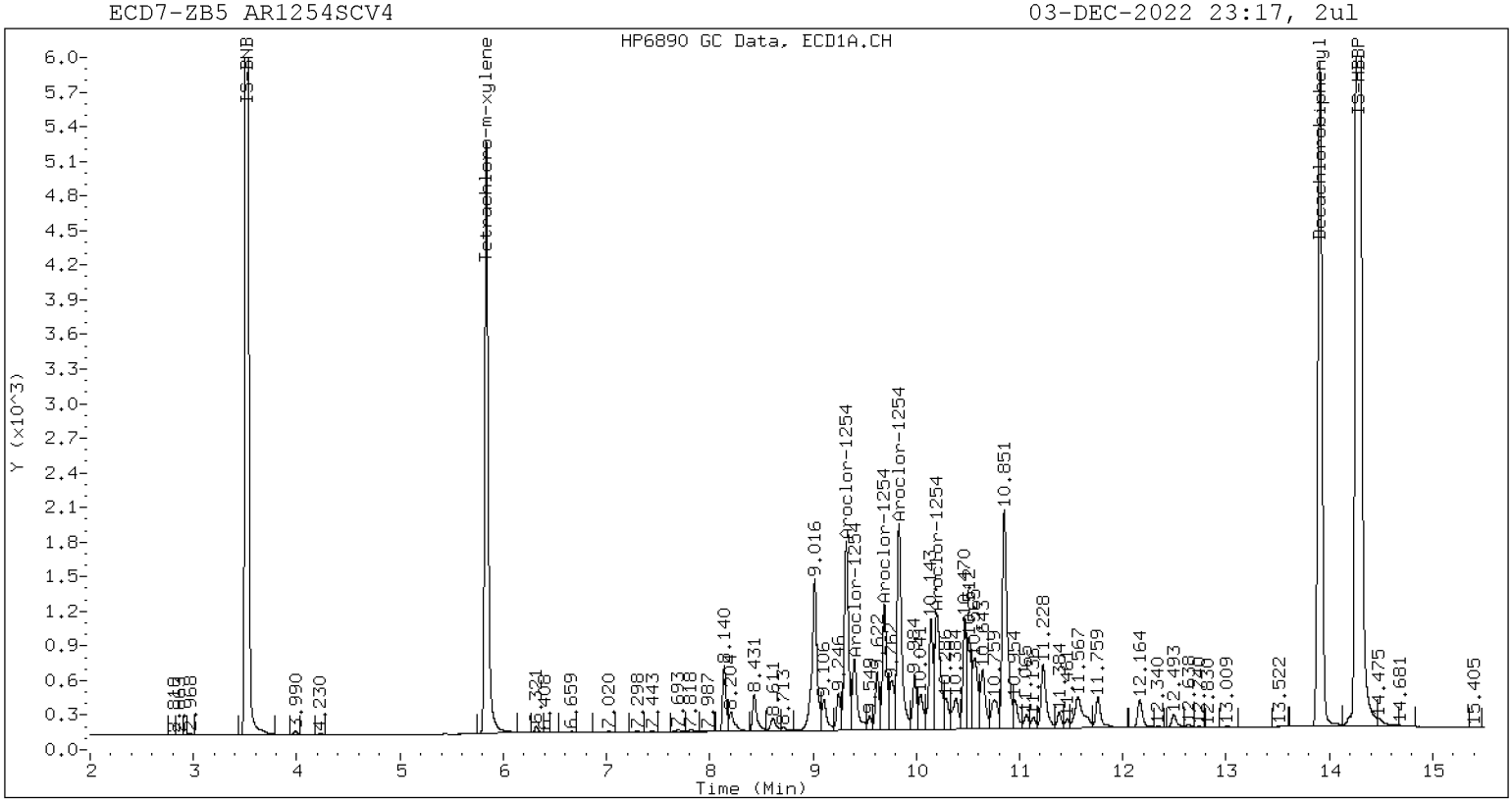
Total PCB Area Col2 (5.936 - 13.808) = 664781 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

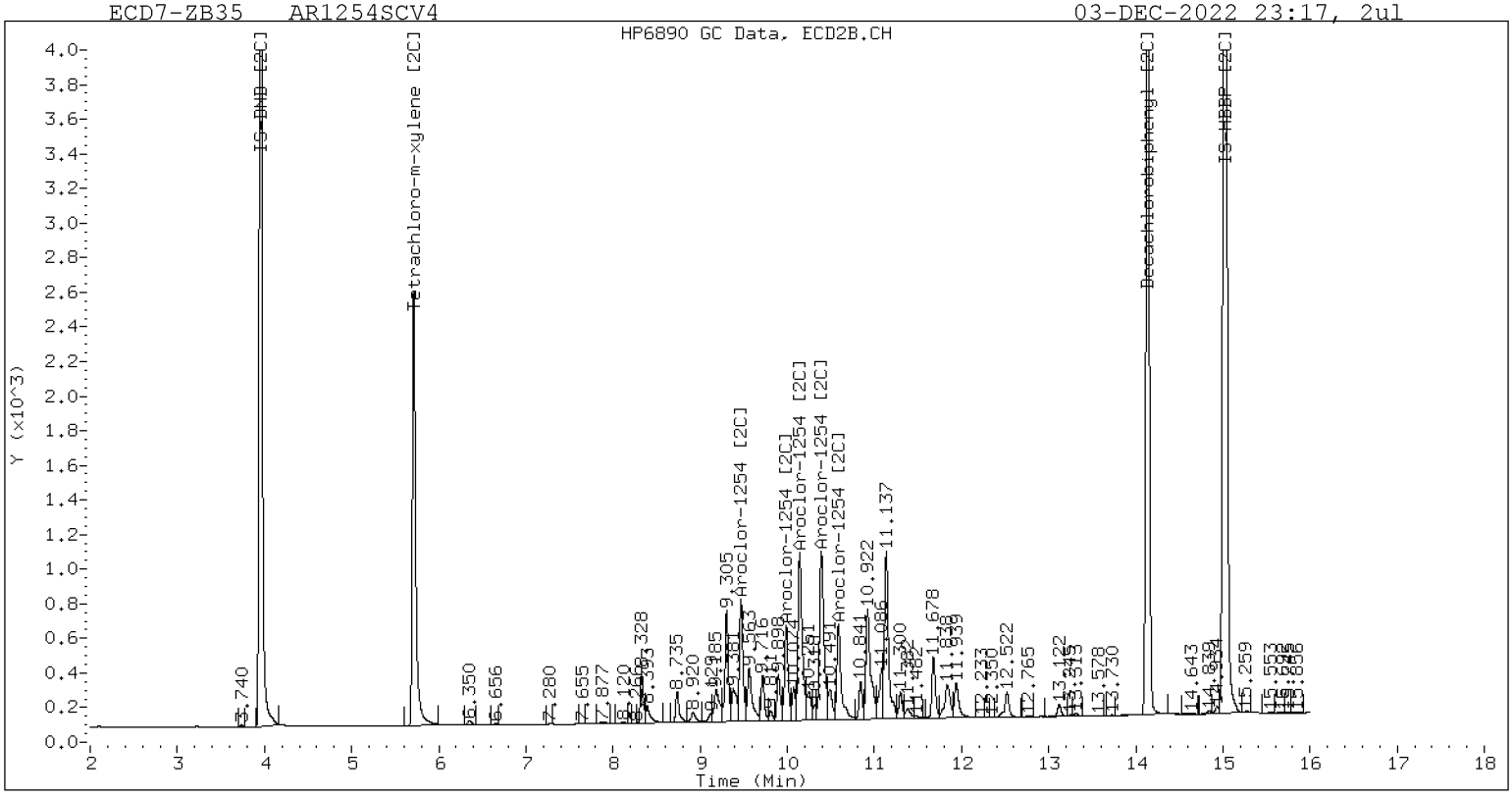
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254SCV4 03-DEC-2022 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032226ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV5	Injection Time:	23:38
Sequence Name:	AR2162SCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1221	A	250.00	237	0.0150468	0.0142259		-5.3	+/-20
Aroclor 1221 [2C]	A	250.00	236	0.0137578	0.0128521		-5.7	+/-20
Aroclor 1262	A	500.00	469	0.0371038	0.0347825		-6.2	+/-20
Aroclor 1262 [2C]	A	500.00	464	0.0656640	0.0610321		-7.1	+/-20
Decachlorobiphenyl	A	40.000	40.0	0.7333327	0.7330667		-0.04	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0221760		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	38.4	1.1358180	1.0912900		-3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	35.7	1.0966080	0.9776713		-10.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032226ECD7.D
Data file 2: /221203.b/221203.b/12032226ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR2162.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR2162SCV5
Client ID:
Injection Date: 03-DEC-2022 23:38
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.836	0.000	246394	5.713	-0.000	131378	36.1	35.7	1.1	Tetrachloro-m-xylene
13.908	-0.001	334929	14.136	-0.001	237241	40.0	38.4	4.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	482097	7.7
Hexabromobiphenyl	798898	913775	14.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	268757	7.9
Hexabromobiphenyl	362541	434790	19.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1221	1	4.761	0.001	9579	240.4	1	4.988	0.001	5527	243.7
Aroclor-1221	2	6.159	0.001	16402	233.6	2	6.323	0.001	10041	232.3
Aroclor-1221	3	6.410	0.001	38315	236.6	3	6.646	0.001	16814	231.1
Total Col1Ave (3 peaks):					236.8	Total Col2Ave (3 peaks):				235.7 RPD = 0
Corrected Ave: < 3 Peaks						Corrected Ave: < 3 Peaks				
Aroclor-1262	1	10.845	-0.003	145305	475.5	1	11.216	-0.001	152840	462.3
Aroclor-1262	2	12.261	-0.001	222795	469.0	2	11.668	-0.002	131097	457.9
Aroclor-1262	3	12.336	-0.001	238475	470.0	3	12.449	-0.002	148386	469.8
Aroclor-1262	4	13.004	-0.001	188009	461.7	4	12.518	-0.001	231081	467.1
Total Col1Ave (4 peaks):					469.1	Total Col2Ave (4 peaks):				464.3 RPD = 1
Corrected Ave (3 peaks):					466.9	Corrected Ave (3 peaks):				462.4 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 3654831 Col1 Total PCB = 0.7 ppm*

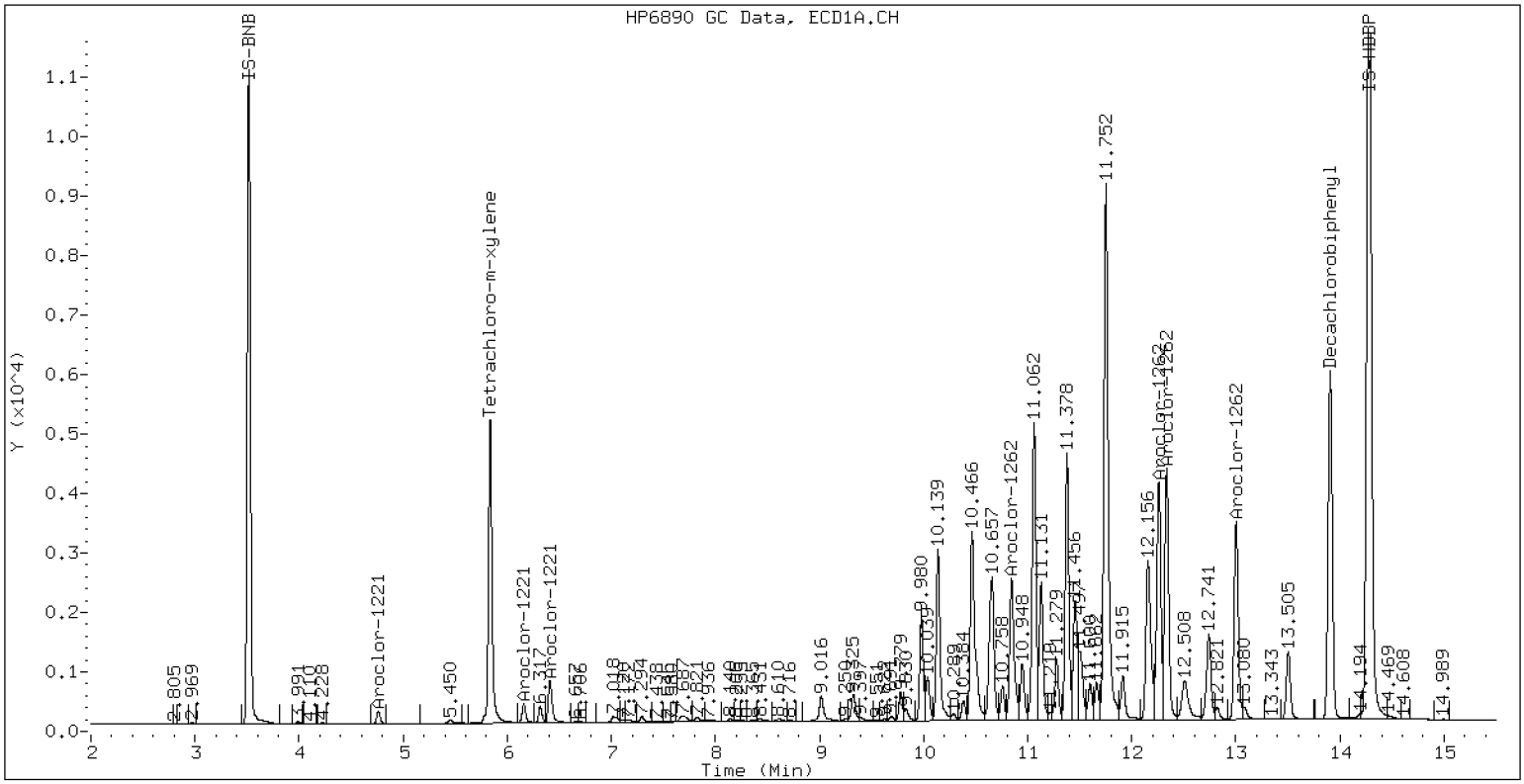
Total PCB Area Col2 (5.936 - 13.808) = 2063978 Col2 Total PCB = 1.1 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

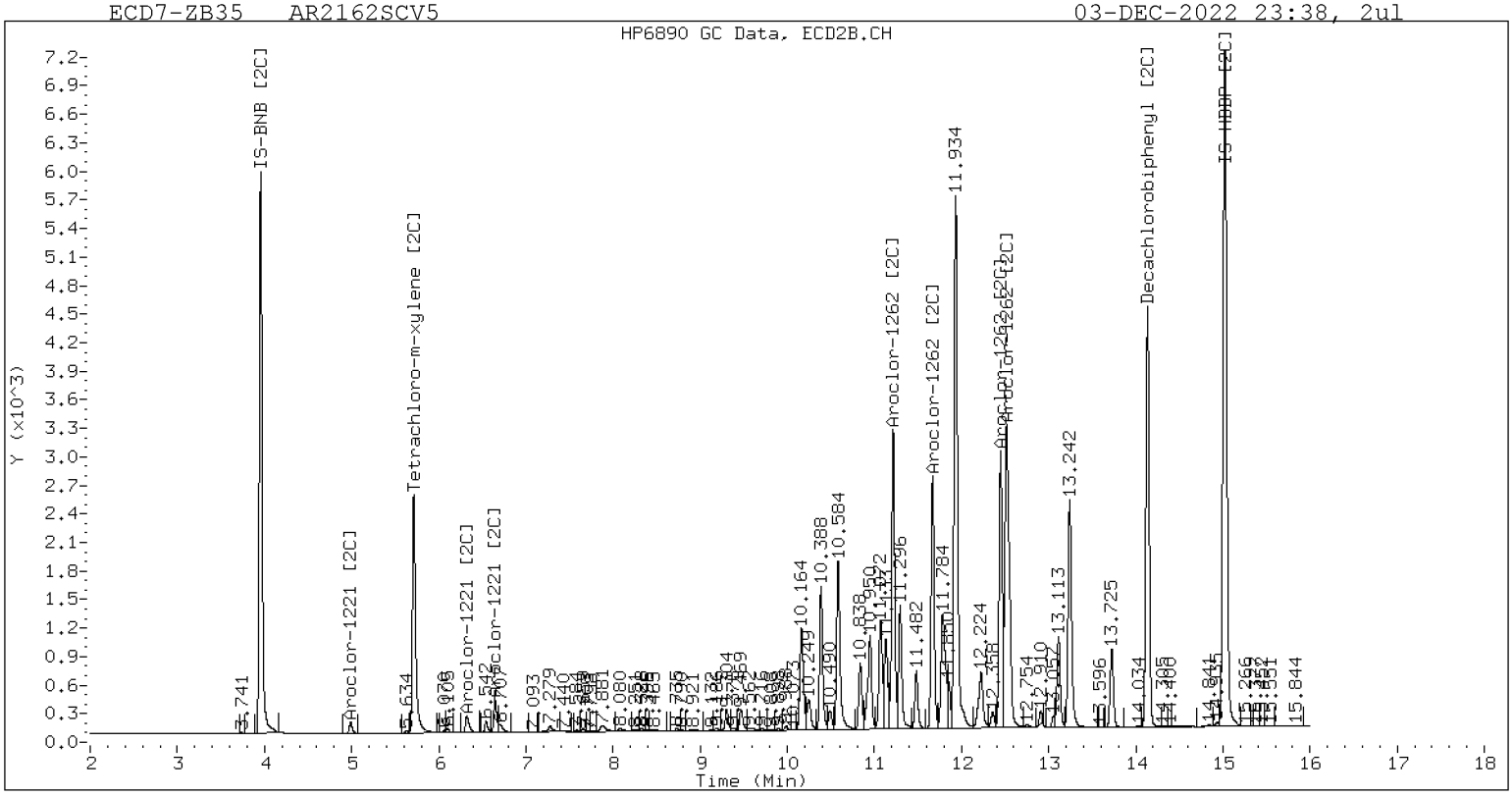
PCB Dual Column Chromatograms

ECD7-ZB5 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR2162SCV5 03-DEC-2022 23:38, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

SECOND-SOURCE
CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	12032227ECD7.D	Calibration Date:	12/03/2022
Sequence:	SKL0048	Injection Date:	12/03/22
Lab Sample ID:	SKL0048-SCV6	Injection Time:	23:59
Sequence Name:	AR3268SCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1232	A	250.00	217	0.0165403	0.0146227		-13.4	+/-20
Aroclor 1232 [2C]	A	250.00	230	0.0182815	0.0167216		-7.9	+/-20
Aroclor 1268	A	250.00	231	0.1462909	0.1351224		-7.5	+/-20
Aroclor 1268 [2C]	A	250.00	228	0.1941199	0.1796657		-8.9	+/-20
Decachlorobiphenyl	A	40.000	56.2	0.7333327	1.0299650		40.4	+/-20
Tetrachlorometaxylene	A	40.000	34.5	1.1336710	0.9771642		-13.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	54.9	1.1358180	1.5591590		37.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	34.2	1.0966080	0.9385176		-14.4	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /221203.b/12032227ECD7.D
Data file 2: /221203.b/221203.b/12032227ECD7.D
Method: \\target\share\chem4\ecd7.i\221203.b\PCB.m
Compound Sublist: AR3268.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR3268SCV6
Client ID:
Injection Date: 03-DEC-2022 23:59
Report Date: 12/05/2022 13:28
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.002	236120	5.711	-0.002	126782	34.5	34.2	0.7	Tetrachloro-m-xylene
13.907	-0.002	474236	14.136	-0.001	339687	56.2	54.9	2.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483276	8.0
Hexabromobiphenyl	798898	920878	15.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	270175	8.5
Hexabromobiphenyl	362541	435731	20.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1232	1	4.758	-0.003	5334	221.8	1	4.986	-0.004	3031	230.7
Aroclor-1232	2	6.158	-0.002	9882	194.6	2	7.276	-0.001	14982	223.3
Aroclor-1232	3	7.684	0.000	51409	225.4	3	7.875	-0.001	29992	228.7
Aroclor-1232	4	8.607	0.001	21710	224.4	4	8.734	0.000	8467	238.1
Total Col1Ave (4 peaks):					216.5	Total Col2Ave (4 peaks):				230.2 RPD = 6
Corrected Ave (3 peaks):					213.6	Corrected Ave (3 peaks):				227.6 RPD = 6
Aroclor-1268	1	12.262	-0.000	296463	230.1	1	12.449	-0.000	189354	230.2
Aroclor-1268	2	12.336	0.001	294353	233.5	2	12.517	0.000	196449	232.9
Aroclor-1268	3	12.715	-0.001	238693	231.1	3	12.909	-0.001	66881	213.9
Aroclor-1268	4	13.506	0.001	725881	230.1	4	13.725	-0.001	525890	233.7
Total Col1Ave (4 peaks):					231.2	Total Col2Ave (4 peaks):				227.7 RPD = 2
Corrected Ave (3 peaks):					230.4	Corrected Ave (3 peaks):				225.7 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2353838 Col1 Total PCB = 0.4 ppm*

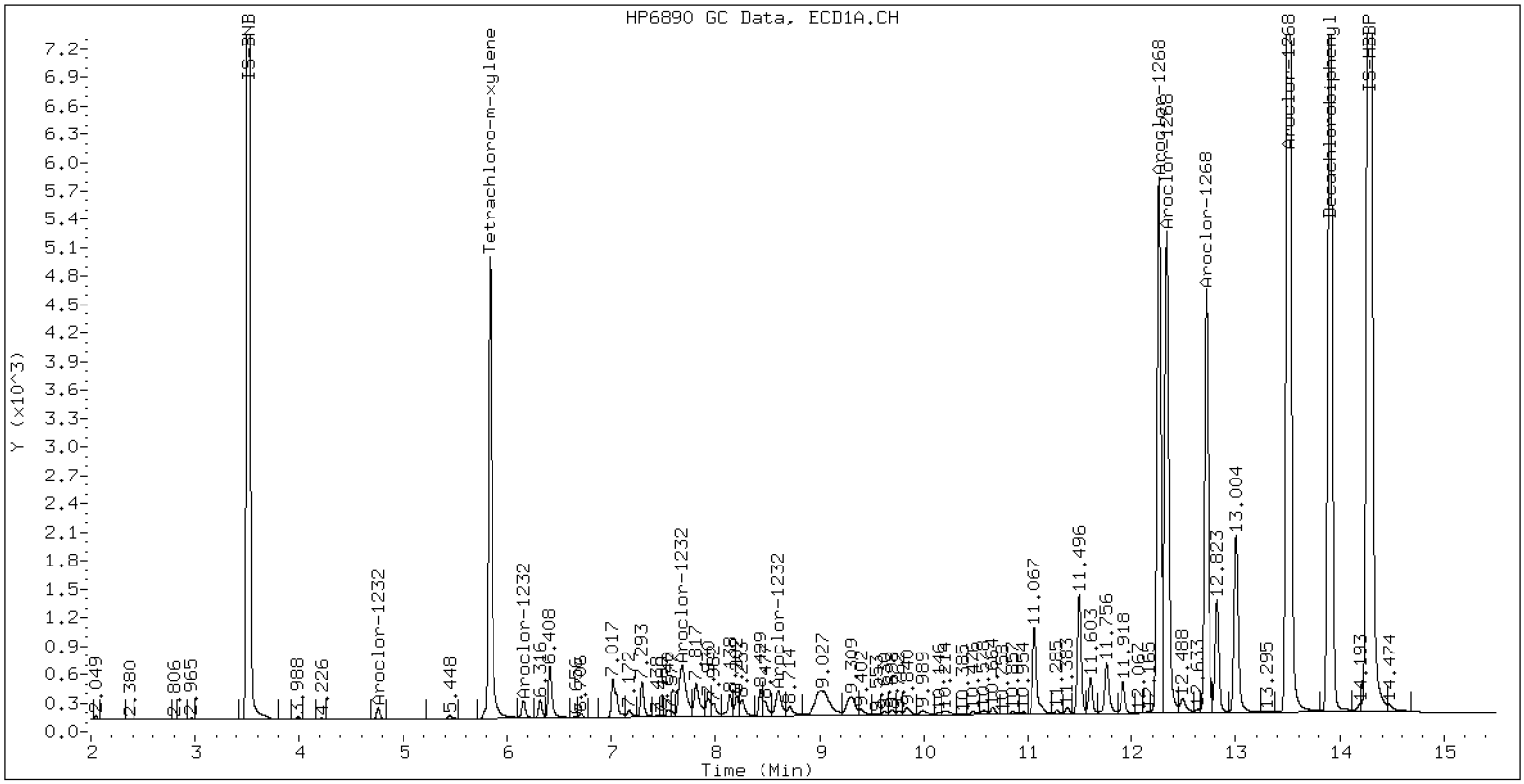
Total PCB Area Col2 (5.936 - 13.808) = 1423323 Col2 Total PCB = 0.7 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

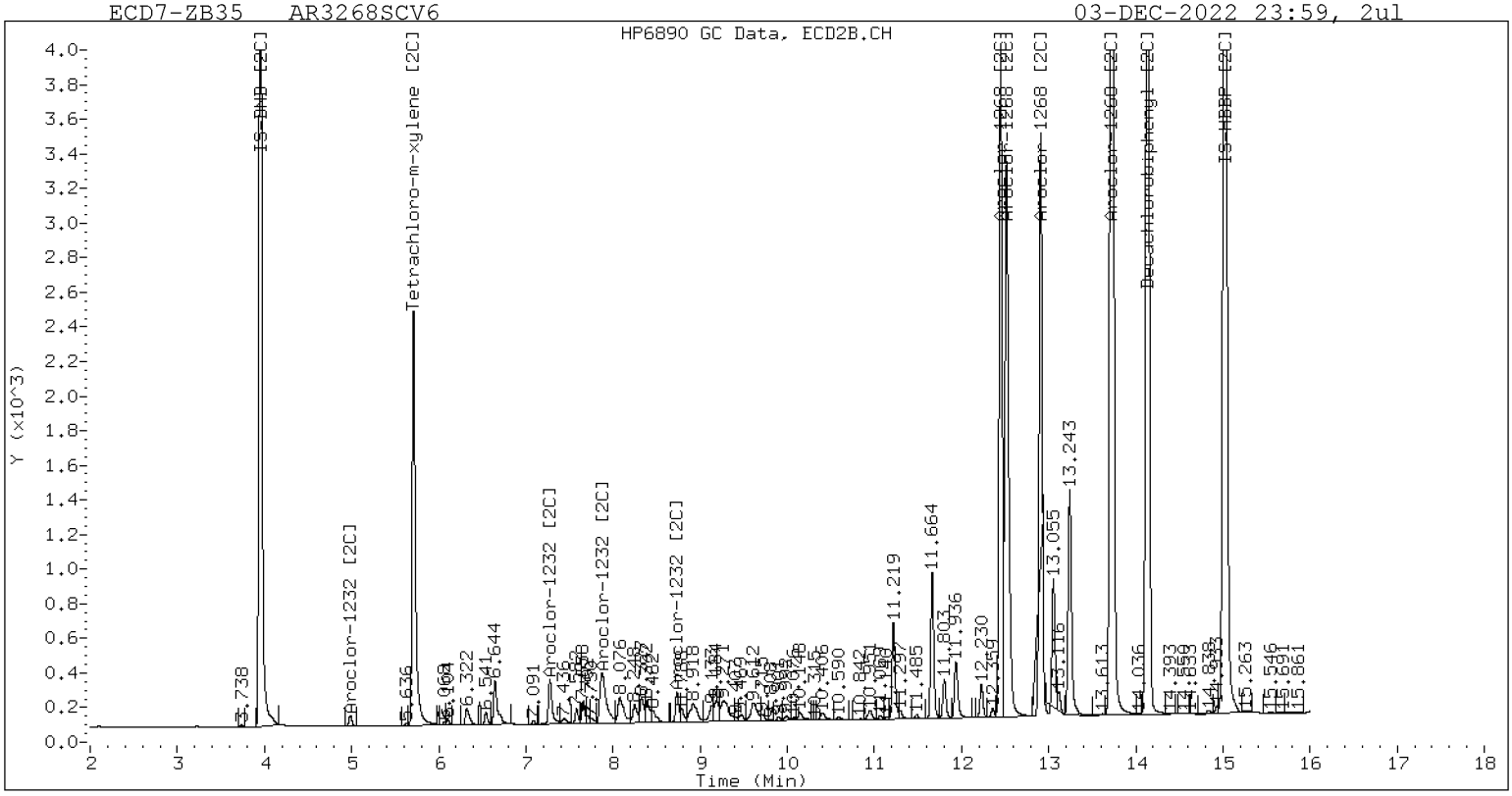
PCB Dual Column Chromatograms

ECD7-ZB5 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR3268SCV6 03-DEC-2022 23:59, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032311ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV1	Injection Time:	11:48
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	266	0.0490062	0.0535437		6.4	+/-20
Aroclor-1248 (1)	A	250.00	295		0.0405439			
Aroclor-1248 (2)	A	250.00	308		0.0540628			
Aroclor-1248 (3)	A	250.00	300		0.0946702			
Aroclor-1248 (4)	A	250.00	161		0.0248977			
Aroclor 1248 [2C]	A	250.00	255	0.0394876	0.0407588		1.9	+/-20
Aroclor-1248 (1) [2C]	A	250.00	267		0.0348697			
Aroclor-1248 (2) [2C]	A	250.00	190		0.0260557			
Aroclor-1248 (3) [2C]	A	250.00	284		0.0474172			
Aroclor-1248 (4) [2C]	A	250.00	278		0.0546926			
Decachlorobiphenyl	A	40.000	42.2	0.7333327	0.7734552		5.5	+/-20
Tetrachlorometaxylene	A	40.000	37.5	1.1336710	1.0618250		-6.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.9	1.1358180	1.1626860		2.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.8	1.0966080	1.0356690		-5.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032311ECD7.D
Data file 2: /230103.b/230103.b/01032311ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 03-JAN-2023 11:48
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	195353	5.708	-0.000	131602	37.5	37.8	0.8	Tetrachloro-m-xylene
13.902	-0.001	358080	14.129	-0.000	269034	42.2	40.9	3.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367957	-17.8
Hexabromobiphenyl	798898	925923	15.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254139	2.0
Hexabromobiphenyl	362541	462780	27.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.005	46620	294.7	1	8.321	0.000	27693	266.7
Aroclor-1248	2	8.597	-0.007	62165	307.8	2	8.725	0.000	20693	189.5
Aroclor-1248	3	9.016	-0.006	108858	299.6	3	9.171	0.000	37658	283.5
Aroclor-1248	4	9.311	-0.001	28629	160.8	4	9.592	0.000	43436	278.6
Total Col1Ave (4 peaks):					265.7	Total Col2Ave (4 peaks):				254.6 RPD = 4
Corrected Ave (3 peaks):					251.7	Corrected Ave (3 peaks):				244.9 RPD = 3
CalAmt %D:					6.3	CalAmt %D:				1.8

Total PCB Area Col1 (5.932 - 13.803) = 1077042 Col1 Total PCB = 0.3 ppm*

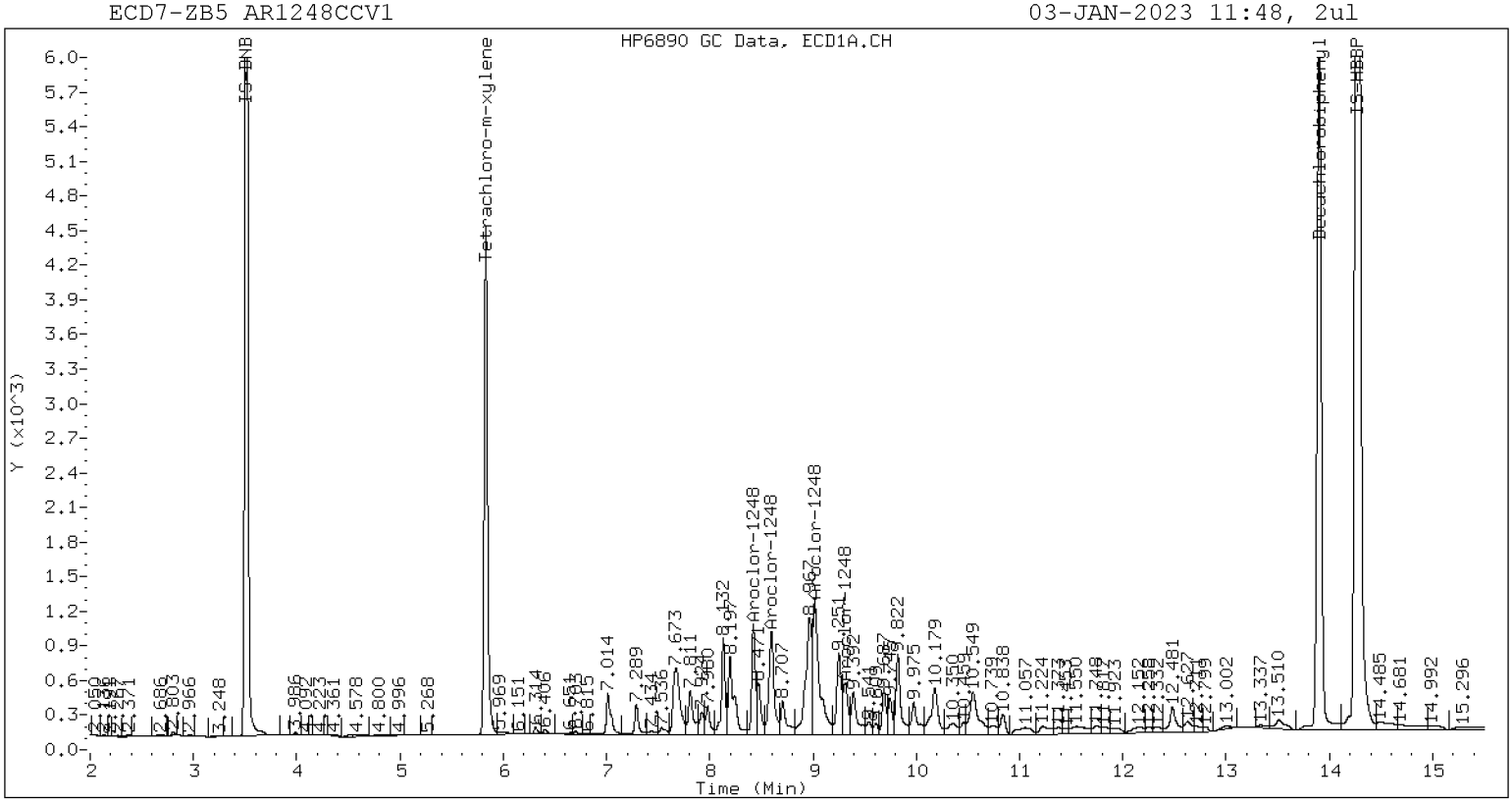
Total PCB Area Col2 (5.808 - 14.029) = 524542 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

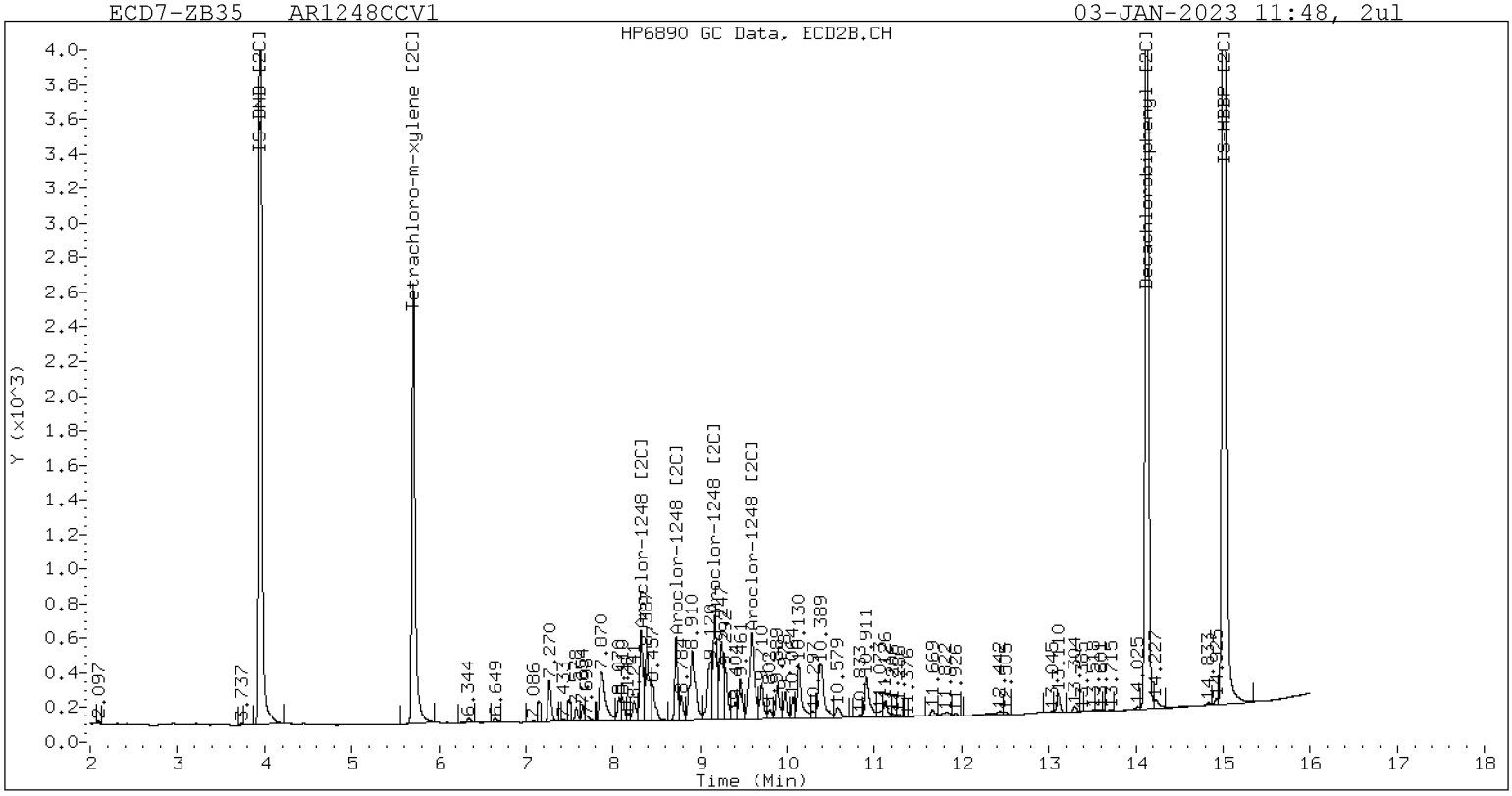
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 03-JAN-2023 11:48, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 03-JAN-2023 11:48, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032312ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV2	Injection Time:	12:09
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	260	0.0441939	0.0459291		3.9	+/-20	
Aroclor-1016 (1)	A	250.00	250	0.0266860	0.0266979		0.0		
Aroclor-1016 (2)	A	250.00	260	0.0861572	0.0894840		4.0		
Aroclor-1016 (3)	A	250.00	261	0.0390425	0.0408088		4.4		
Aroclor-1016 (4)	A	250.00	268	0.0248899	0.0267256		7.2		
Aroclor 1016 [2C]	A	250.00	245	0.0467310	0.0429025		-2.1	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	257	0.0409030	0.0420485		2.8		
Aroclor-1016 (2) [2C]	A	250.00	198	0.0882154	0.0697524		-20.8		
Aroclor-1016 (3) [2C]	A	250.00	250	0.0378846	0.0379486		0.0		
Aroclor-1016 (4) [2C]	A	250.00	274	0.0199212	0.0218605		9.6		
Aroclor 1260	A	250.00	255	0.0390342	0.0397104		2.2	+/-20	
Aroclor-1260 (1)	A	250.00	253	0.0291201	0.0294820		1.2		
Aroclor-1260 (2)	A	250.00	254	0.0301181	0.0305425		1.6		
Aroclor-1260 (3)	A	250.00	255	0.0791351	0.0808164		2.0		
Aroclor-1260 (4)	A	250.00	248	0.0403003	0.0400739		-0.8		
Aroclor-1260 (5)	A	250.00	267	0.0164974	0.0176374		6.8		
Aroclor 1260 [2C]	A	250.00	200	0.0617619	0.0445703		-20.2	+/-20	*
Aroclor-1260 (1) [2C]	A	250.00	234	0.0422283	0.0395356		-6.4		
Aroclor-1260 (2) [2C]	A	250.00	150	0.1059643	0.0634886		-40.0		
Aroclor-1260 (3) [2C]	A	250.00	246	0.0282173	0.0277699		-1.6		
Aroclor-1260 (4) [2C]	A	250.00	168	0.0706376	0.0474870		-32.8		
Decachlorobiphenyl	A	40.000	45.0	0.7333327	0.8260163		12.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1336710	1.1291340		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1650300		2.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.7	1.0966080	1.1166800		1.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032312ECD7.D
Data file 2: /230103.b/230103.b/01032312ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 03-JAN-2023 12:09
Report Date: 01/06/2023 17:00
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.001	156721	5.708	0.000	105548	39.8	40.7	2.2	Tetrachloro-m-xylene
13.901	-0.002	298856	14.129	-0.000	207751	45.1	41.0	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	277595	-38.0
Hexabromobiphenyl	798898	723608	-9.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	189039	-24.1
Hexabromobiphenyl	362541	356645	-1.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.006	23160	250.1	1	7.271	-0.001	24840	257.0
Aroclor-1016	2	7.675	-0.010	77626	259.7	2	7.870	-0.002	41206	197.7
Aroclor-1016	3	7.810	-0.008	35401	261.3	3	8.070	-0.001	22418	250.4
Aroclor-1016	4	8.422	-0.008	23184	268.4	4	8.241	-0.000	12914	274.3
Total Col1Ave (4 peaks):					259.9	Total Col2Ave (4 peaks):				244.9 RPD = 6
Corrected Ave (3 peaks):					257.0	Corrected Ave (3 peaks):				235.0 RPD = 9
CalAmt %D:					4.0	CalAmt %D:				-2.1
Aroclor-1260	1	11.055	-0.007	66667	253.1	1	11.663	-0.000	44063	234.1
Aroclor-1260	2	11.371	-0.006	69065	253.5	2	11.925	-0.000	70759	149.8
Aroclor-1260	3	11.743	-0.009	182748	255.3	3	12.443	-0.001	30950	246.0
Aroclor-1260	4	12.148	-0.010	90618	248.6	4	12.508	-0.001	52925	168.1
Aroclor-1260	5	12.254	-0.008	39883	267.3	NS	---			----
Total Col1Ave (5 peaks):					255.6	Total Col2Ave (4 peaks):				199.5 RPD = 25
Corrected Ave (4 peaks):					252.6	Corrected Ave (3 peaks):				184.0 RPD = 31
CalAmt %D:					2.2	CalAmt %D:				-20.2

Total PCB Area Col1 (5.932 - 13.803) = 1761639 Col1 Total PCB = 0.7 ppm*

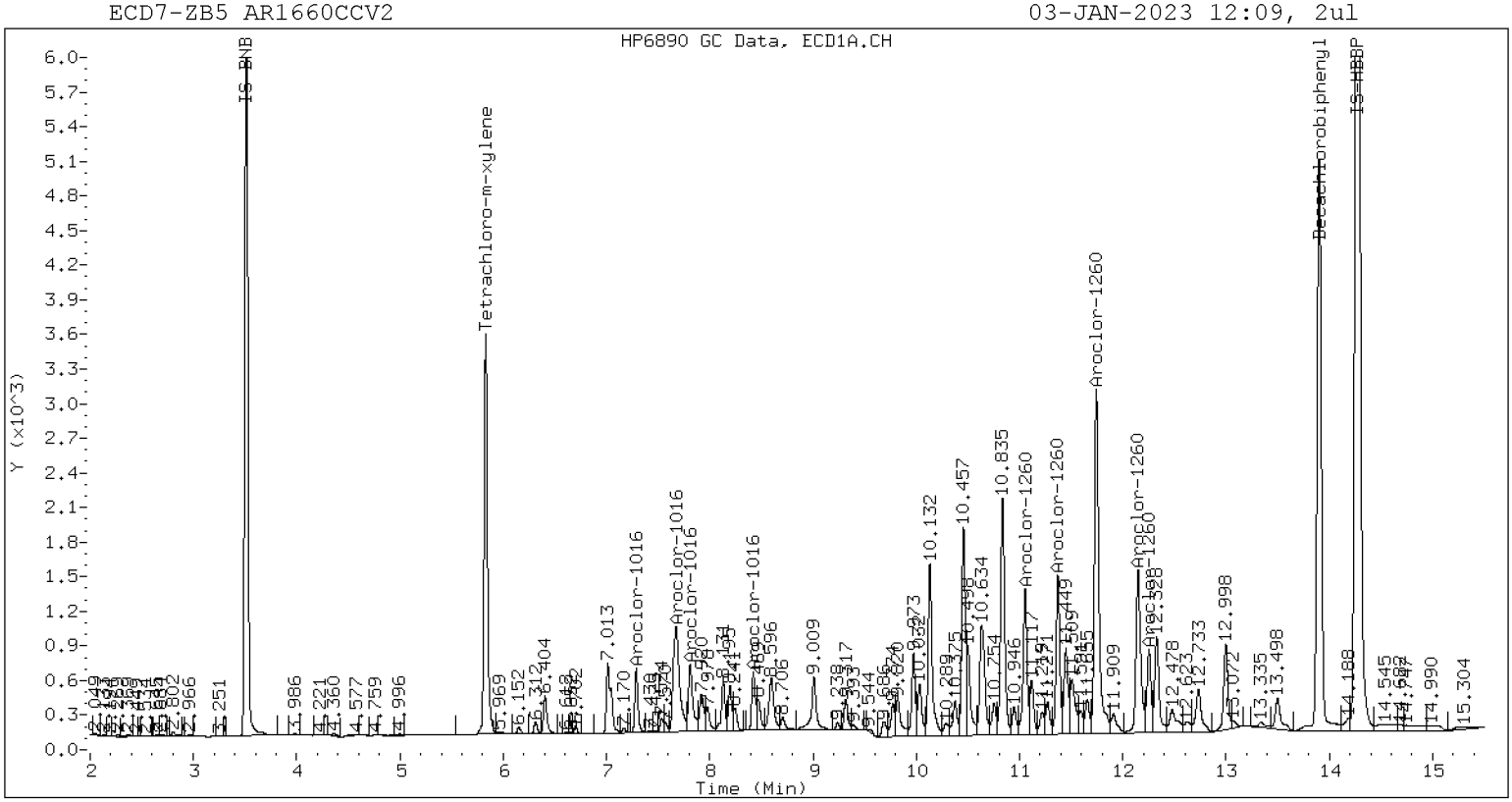
Total PCB Area Col2 (5.808 - 14.029) = 919118 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

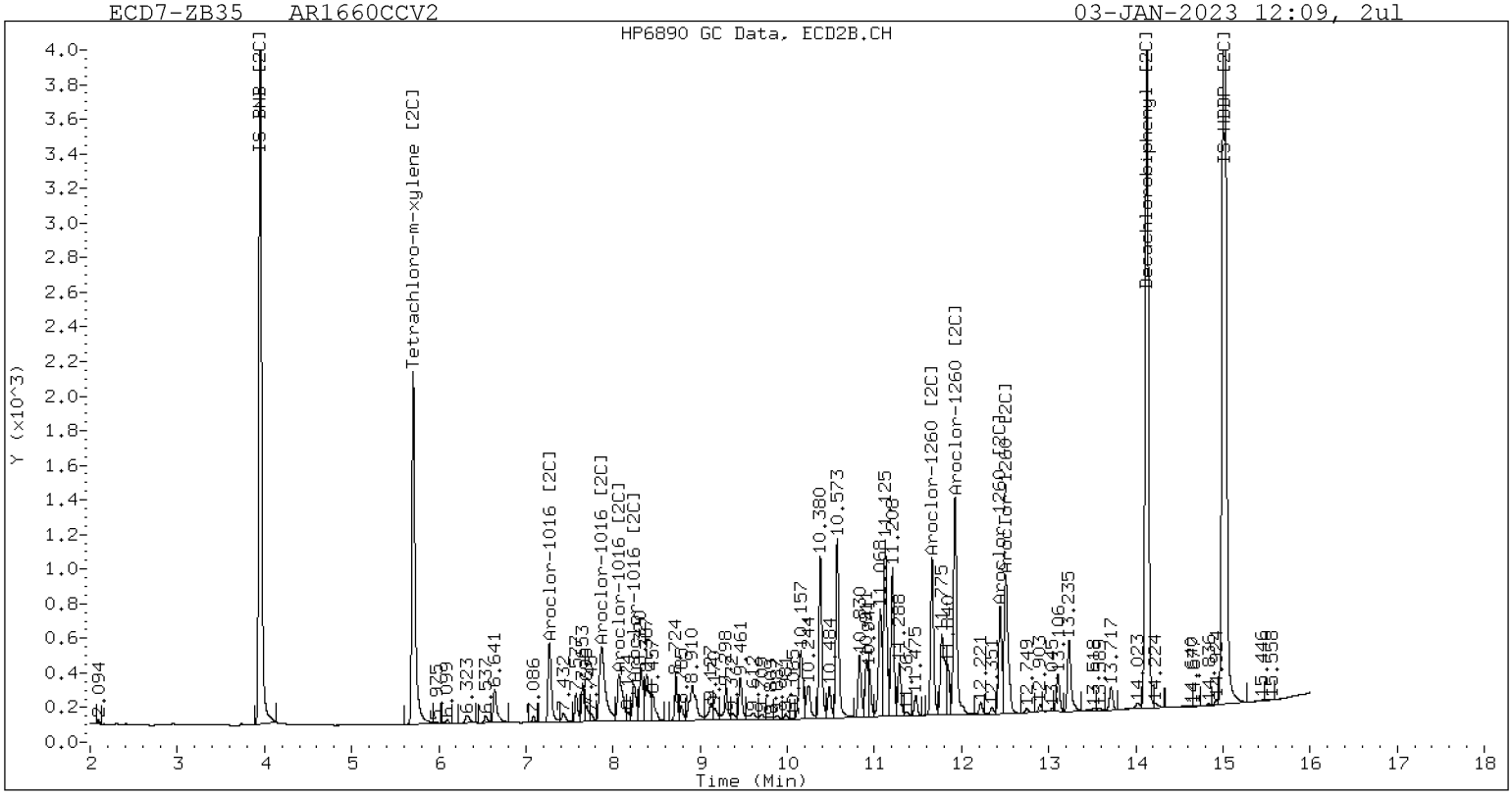
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 03-JAN-2023 12:09, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 03-JAN-2023 12:09, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032330ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV3	Injection Time:	18:28
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	285	0.0396000	0.0439701		14.1	+/-20
Aroclor-1242 (1)	A	250.00	281		0.0254812			
Aroclor-1242 (2)	A	250.00	280		0.0806426			
Aroclor-1242 (3)	A	250.00	337		0.0279617			
Aroclor-1242 (4)	A	250.00	243		0.0417947			
Aroclor 1242 [2C]	A	250.00	268	0.0391981	0.0387542		7.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	264		0.0358019			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0565731			
Aroclor-1242 (3) [2C]	A	250.00	299		0.0277340			
Aroclor-1242 (4) [2C]	A	250.00	313		0.0349078			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8080584		10.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1010770		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.8	1.1358180	1.2157420		7.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.9	1.0966080	1.0656020		-2.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032330ECD7.D
Data file 2: /230103.b/230103.b/01032330ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 03-JAN-2023 18:28
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.001	202063	5.707	-0.000	134066	38.8	38.9	0.0	Tetrachloro-m-xylene
13.902	-0.001	347335	14.128	-0.001	252492	44.1	42.8	2.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367028	-18.0
Hexabromobiphenyl	798898	859678	7.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	251625	1.0
Hexabromobiphenyl	362541	415371	14.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	0.000	29226	280.9	1	7.271	0.000	28152	264.4
Aroclor-1242	2	7.676	0.000	92494	280.0	2	7.872	0.000	44485	196.8
Aroclor-1242	3	8.422	0.000	32071	337.5	3	9.169	0.000	21808	299.0
Aroclor-1242	4	9.021	0.000	47937	242.9	4	9.589	0.000	27449	313.1
Total Col1Ave (4 peaks):					285.3	Total Col2Ave (4 peaks):				268.3 RPD = 6
Corrected Ave (3 peaks):					268.0	Corrected Ave (3 peaks):				253.4 RPD = 6
CalAmt %D:					14.1	CalAmt %D:				7.3

Total PCB Area Col1 (5.932 - 13.803) = 937827 Col1 Total PCB = 0.3 ppm*

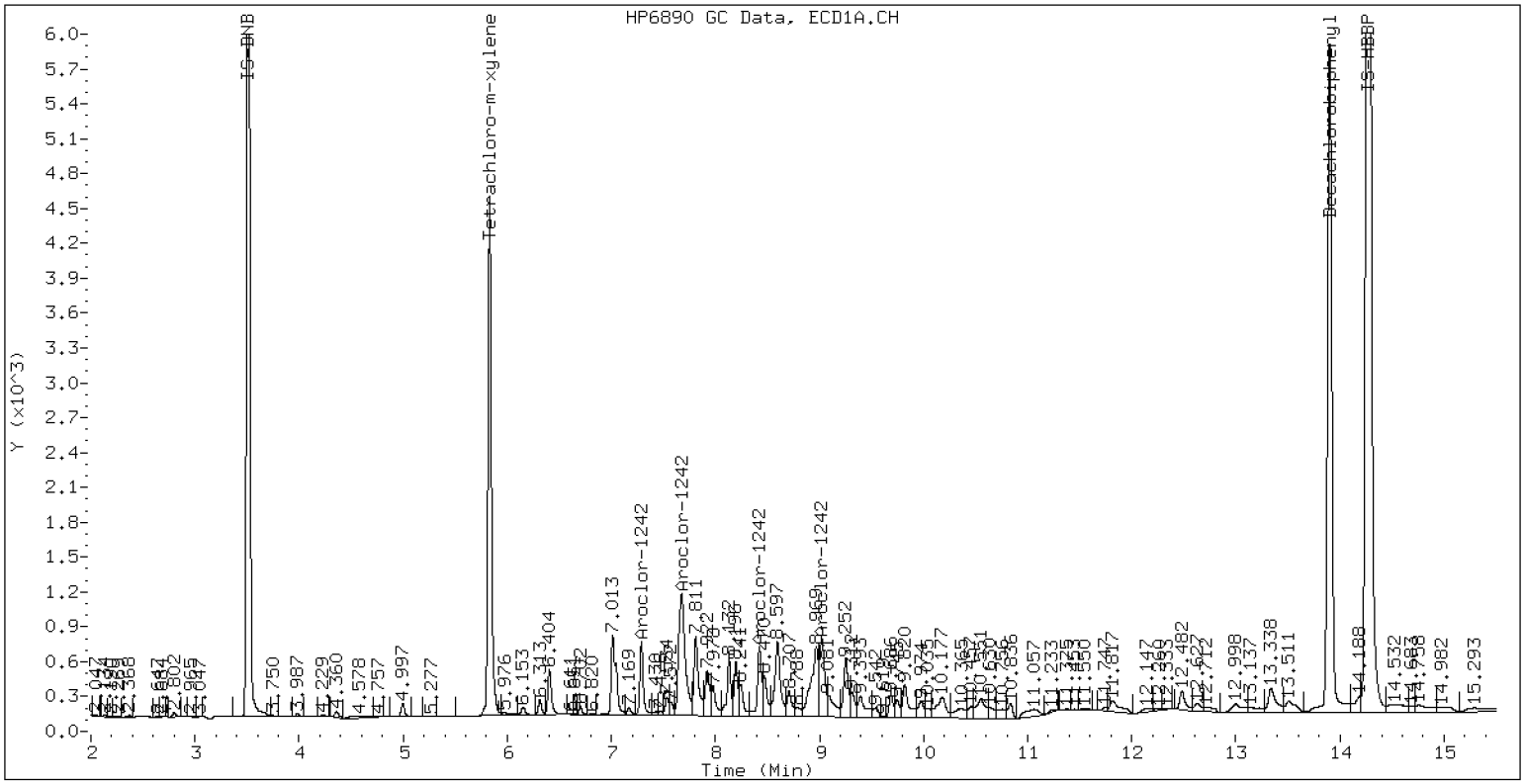
Total PCB Area Col2 (5.808 - 14.029) = 444780 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

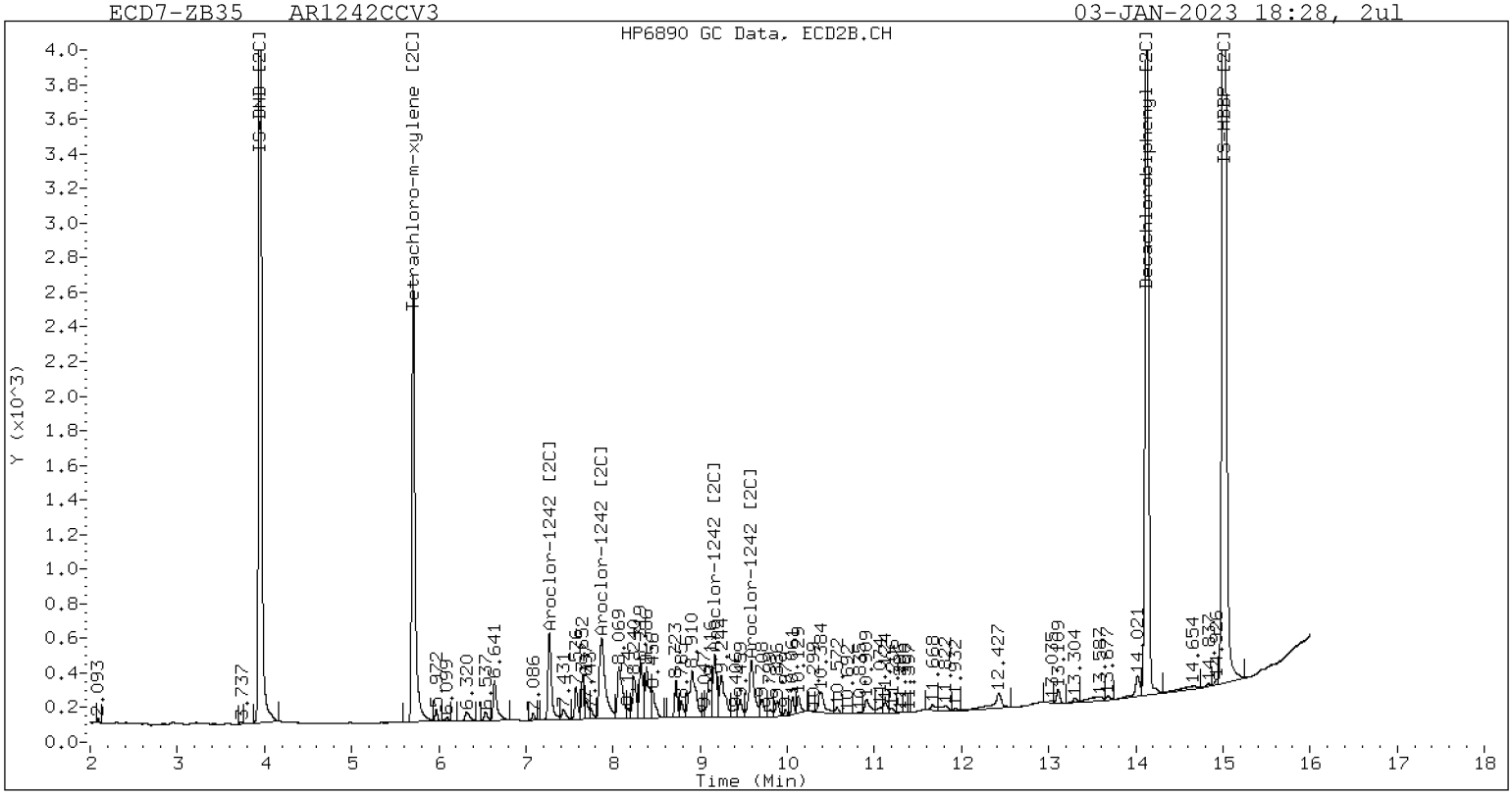
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 03-JAN-2023 18:28, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 03-JAN-2023 18:28, 2ul

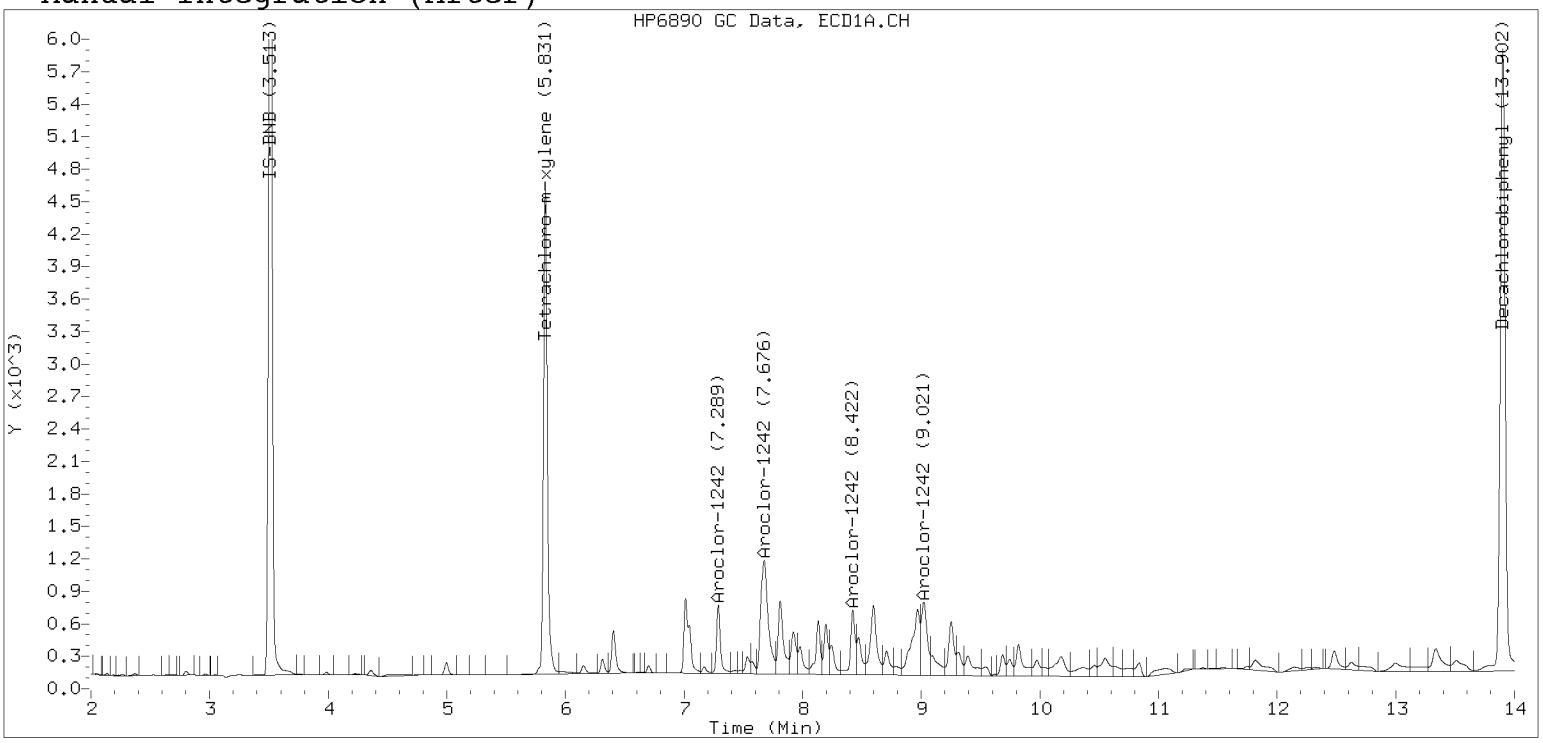


ZB-35 Manual Integration: NO

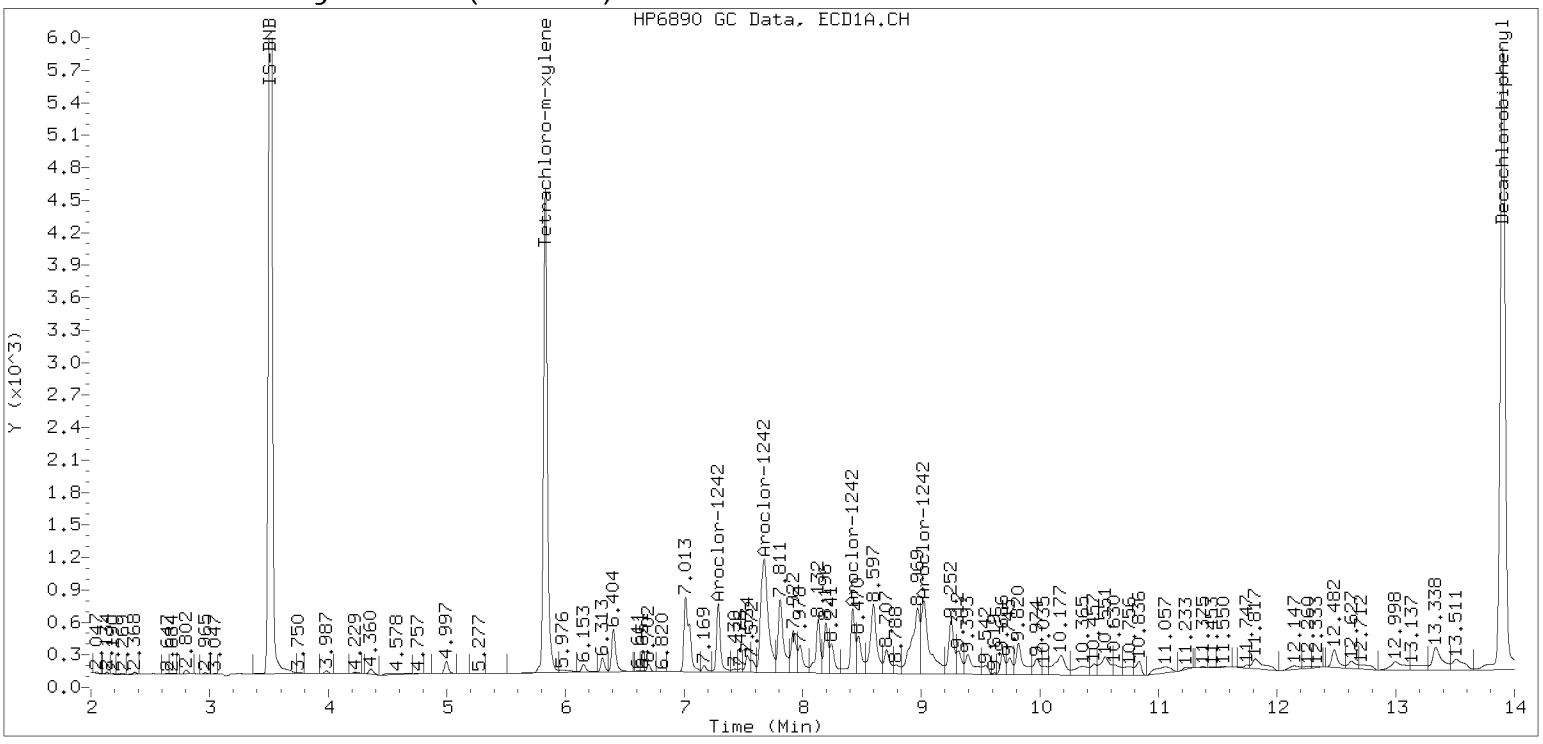
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032330ECD7.D Injection Date: 03-JAN-2023 18:28

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032331ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/03/23
Lab Sample ID:	SLA0079-CCV4	Injection Time:	18:49
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	294	0.0441939	0.0505094		17.7	+/-20
Aroclor-1016 (1)	A	250.00	278	0.0266860	0.0296476		11.2	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0930805		8.0	
Aroclor-1016 (3)	A	250.00	294	0.0390425	0.0459334		17.6	
Aroclor-1016 (4)	A	250.00	335	0.0248899	0.0333762		34.0	
Aroclor 1016 [2C]	A	250.00	236	0.0467310	0.0412979		-5.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407613		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	189	0.0882154	0.0667378		-24.4	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365952		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0210972		6.0	
Aroclor 1260	A	250.00	277	0.0390342	0.0430042		10.9	+/-20
Aroclor-1260 (1)	A	250.00	271	0.0291201	0.0315542		8.4	
Aroclor-1260 (2)	A	250.00	273	0.0301181	0.0328508		9.2	
Aroclor-1260 (3)	A	250.00	277	0.0791351	0.0876855		10.8	
Aroclor-1260 (4)	A	250.00	270	0.0403003	0.0434576		8.0	
Aroclor-1260 (5)	A	250.00	295	0.0164974	0.0194729		18.0	
Aroclor 1260 [2C]	A	250.00	211	0.0617619	0.0474391		-15.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	240	0.0422283	0.0405877		-4.0	
Aroclor-1260 (2) [2C]	A	250.00	161	0.1059643	0.0683669		-35.6	
Aroclor-1260 (3) [2C]	A	250.00	261	0.0282173	0.0294476		4.4	
Aroclor-1260 (4) [2C]	A	250.00	182	0.0706376	0.0513543		-27.2	
Decachlorobiphenyl	A	40.000	47.7	0.7333327	0.8744493		19.3	+/-20
Tetrachlorometaxylene	A	40.000	40.0	1.1336710	1.1339090		0.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.9	1.1358180	1.2194670		7.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.9	1.0966080	1.1215770		2.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032331ECD7.D
Data file 2: /230103.b/230103.b/01032331ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 03-JAN-2023 18:49
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	162323	5.708	0.000	108936	40.0	40.9	2.2	Tetrachloro-m-xylene
13.903	0.000	296423	14.128	-0.002	210980	47.7	42.9	10.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	286307	-36.0
Hexabromobiphenyl	798898	677965	-15.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	194255	-22.0
Hexabromobiphenyl	362541	346020	-4.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1016	1	7.289	-0.006	26526	277.7	1	7.270	-0.001	24744	249.1
Aroclor-1016	2	7.679	-0.006	83280	270.1	2	7.871	-0.001	40513	189.1
Aroclor-1016	3	7.812	-0.006	41097	294.1	3	8.069	-0.001	22215	241.5
Aroclor-1016	4	8.423	-0.006	29862	335.2	4	8.240	-0.001	12807	264.8
Total Col1Ave (4 peaks):					294.3	Total Col2Ave (4 peaks):				236.1 RPD = 22
Corrected Ave (3 peaks):					280.7	Corrected Ave (3 peaks):				226.6 RPD = 21
CalAmt %D:					17.7	CalAmt %D:				-5.5
Aroclor-1260	1	11.056	-0.007	66852	270.9	1	11.662	-0.000	43888	240.3
Aroclor-1260	2	11.373	-0.004	69599	272.7	2	11.925	-0.000	73926	161.3
Aroclor-1260	3	11.747	-0.005	185774	277.0	3	12.444	-0.000	31842	260.9
Aroclor-1260	4	12.151	-0.007	92071	269.6	4	12.508	-0.001	55530	181.8
Aroclor-1260	5	12.256	-0.006	41256	295.1	NS	---			----
Total Col1Ave (5 peaks):					277.1	Total Col2Ave (4 peaks):				211.1 RPD = 27
Corrected Ave (4 peaks):					272.5	Corrected Ave (3 peaks):				194.4 RPD = 33
CalAmt %D:					10.8	CalAmt %D:				-15.6

Total PCB Area Col1 (5.932 - 13.803) = 1931708 Col1 Total PCB = 0.7 ppm*

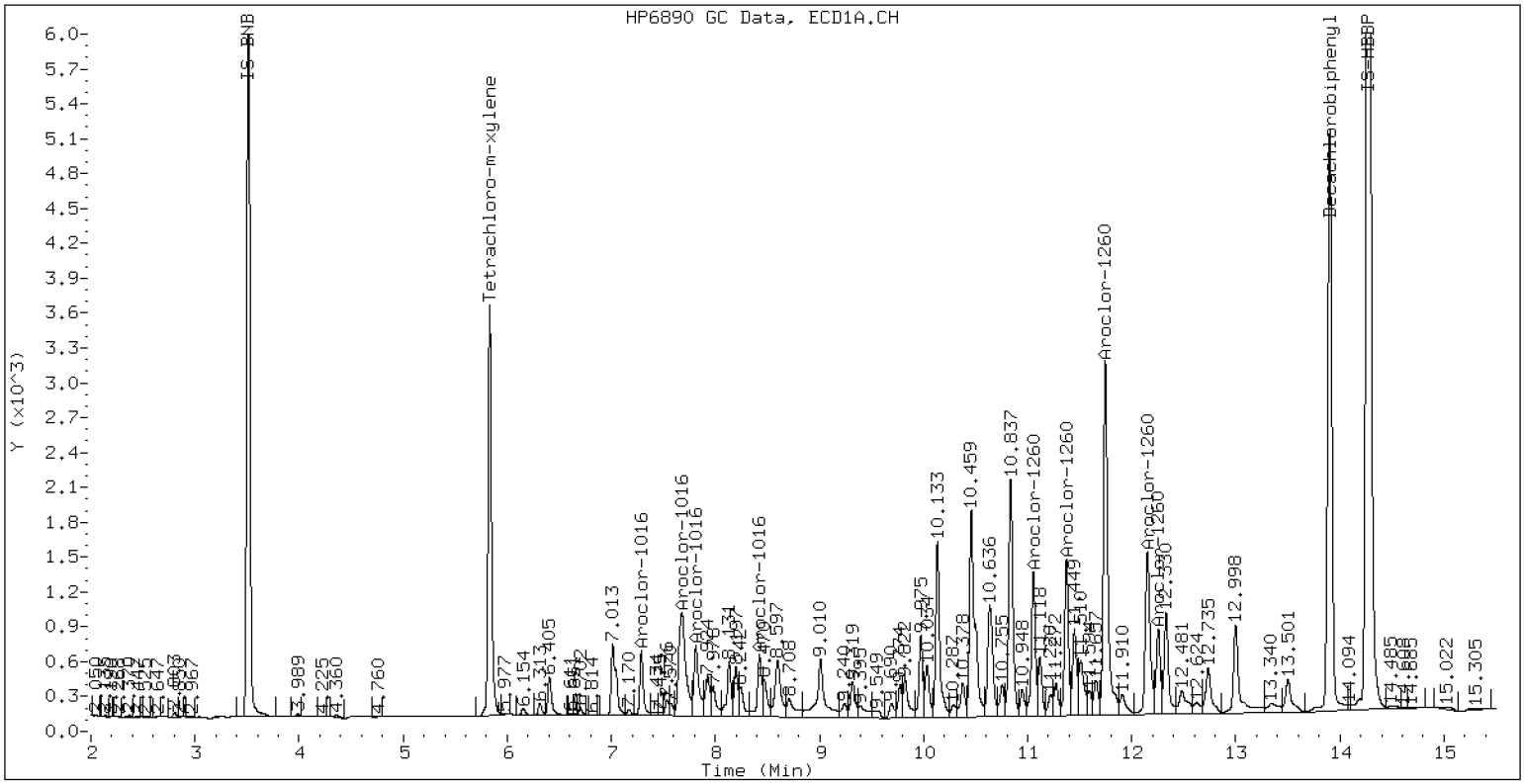
Total PCB Area Col2 (5.808 - 14.029) = 918749 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

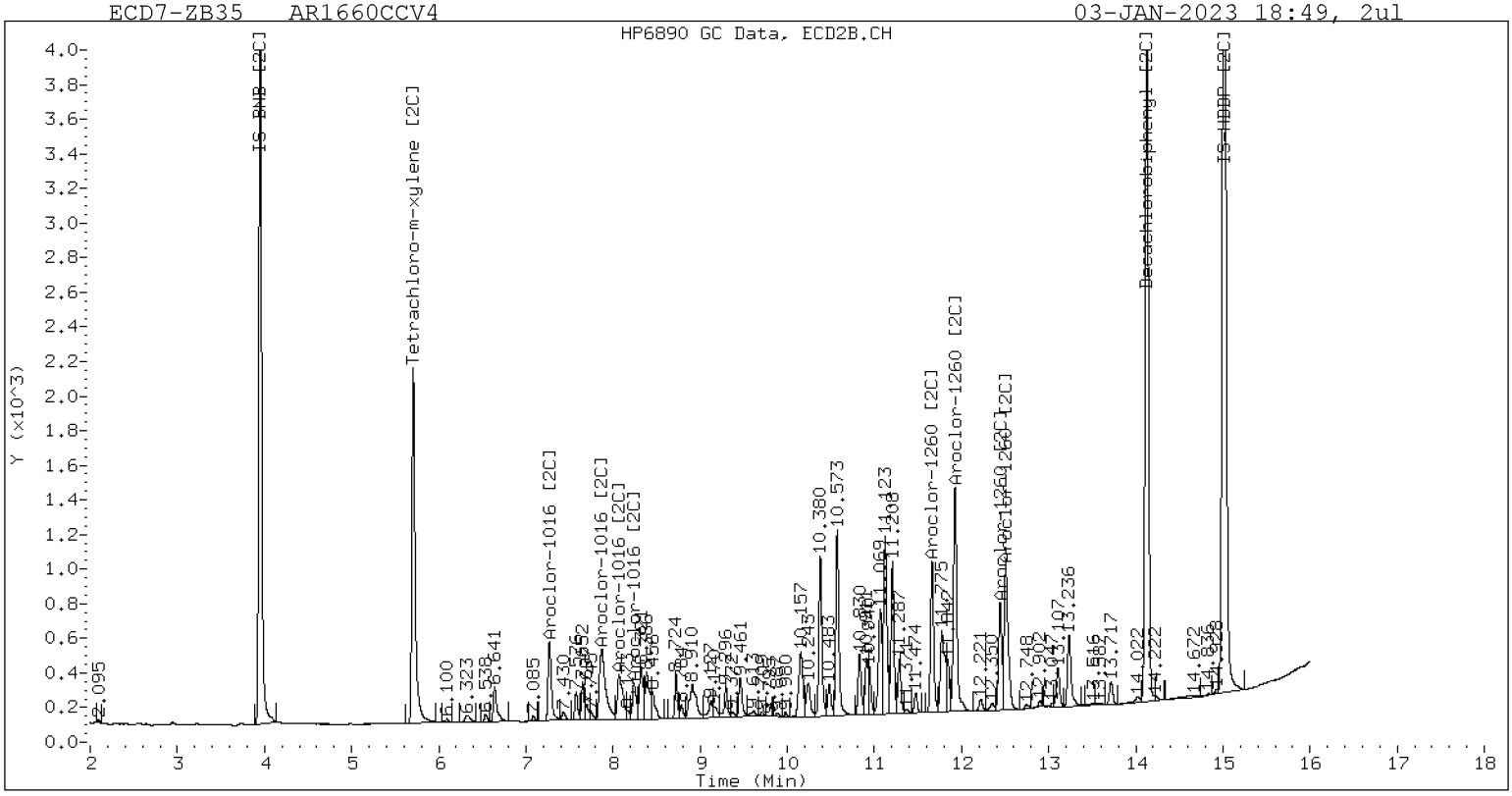
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 03-JAN-2023 18:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 03-JAN-2023 18:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032347ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/04/23
Lab Sample ID:	SLA0079-CCV5	Injection Time:	00:26
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	285	0.0576965	0.0661707		14.0	+/-20
Aroclor-1254 (1)	A	250.00	256		0.0721448			
Aroclor-1254 (2)	A	250.00	302		0.0330578			
Aroclor-1254 (3)	A	250.00	235		0.0417671			
Aroclor-1254 (4)	A	250.00	308		0.1068819			
Aroclor-1254 (5)	A	250.00	324		0.0770019			
Aroclor 1254 [2C]	A	250.00	240	0.0638047	0.0627563		-4.1	+/-20
Aroclor-1254 (1) [2C]	A	250.00	242		0.0500428			
Aroclor-1254 (2) [2C]	A	250.00	151		0.0251111			
Aroclor-1254 (3) [2C]	A	250.00	220		0.0783272			
Aroclor-1254 (4) [2C]	A	250.00	292		0.1078908			
Aroclor-1254 (5) [2C]	A	250.00	294		0.0524096			
Decachlorobiphenyl	A	40.000	44.2	0.7333327	0.8107879		10.5	+/-20
Tetrachlorometaxylene	A	40.000	38.0	1.1336710	1.0777150		-5.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.8	1.1358180	1.1884280		4.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.7	1.0966080	1.0330770		-5.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032347ECD7.D
Data file 2: /230103.b/230103.b/01032347ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 04-JAN-2023 00:26
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.000	198167	5.708	0.000	131787	38.0	37.7	0.9	Tetrachloro-m-xylene
13.903	0.000	325582	14.129	-0.000	250744	44.2	41.9	5.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	367754	-17.8
Hexabromobiphenyl	798898	803125	0.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	255135	2.4
Hexabromobiphenyl	362541	421976	16.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.314	0.000	82911	256.1	1	9.461	0.000	39899	242.6
Aroclor-1254	2	9.393	0.000	37991	301.7	2	9.978	0.000	20021	151.4
Aroclor-1254	3	9.687	0.000	48000	234.7	3	10.129	0.000	62450	219.7
Aroclor-1254	4	9.821	0.000	122832	308.1	4	10.378	0.000	86021	292.2
Aroclor-1254	5	10.176	0.000	88493	323.8	5	10.576	0.000	41786	294.3

Total Col1Ave (5 peaks): 284.9 Total Col2Ave (5 peaks): 240.0 RPD = 17

Corrected Ave (4 peaks): 275.1 Corrected Ave (4 peaks): 226.5 RPD = 19

CalAmt %D: 14.0 CalAmt %D: -4.0

Total PCB Area Col1 (5.932 - 13.803) = 1364494 Col1 Total PCB = 0.4 ppm*

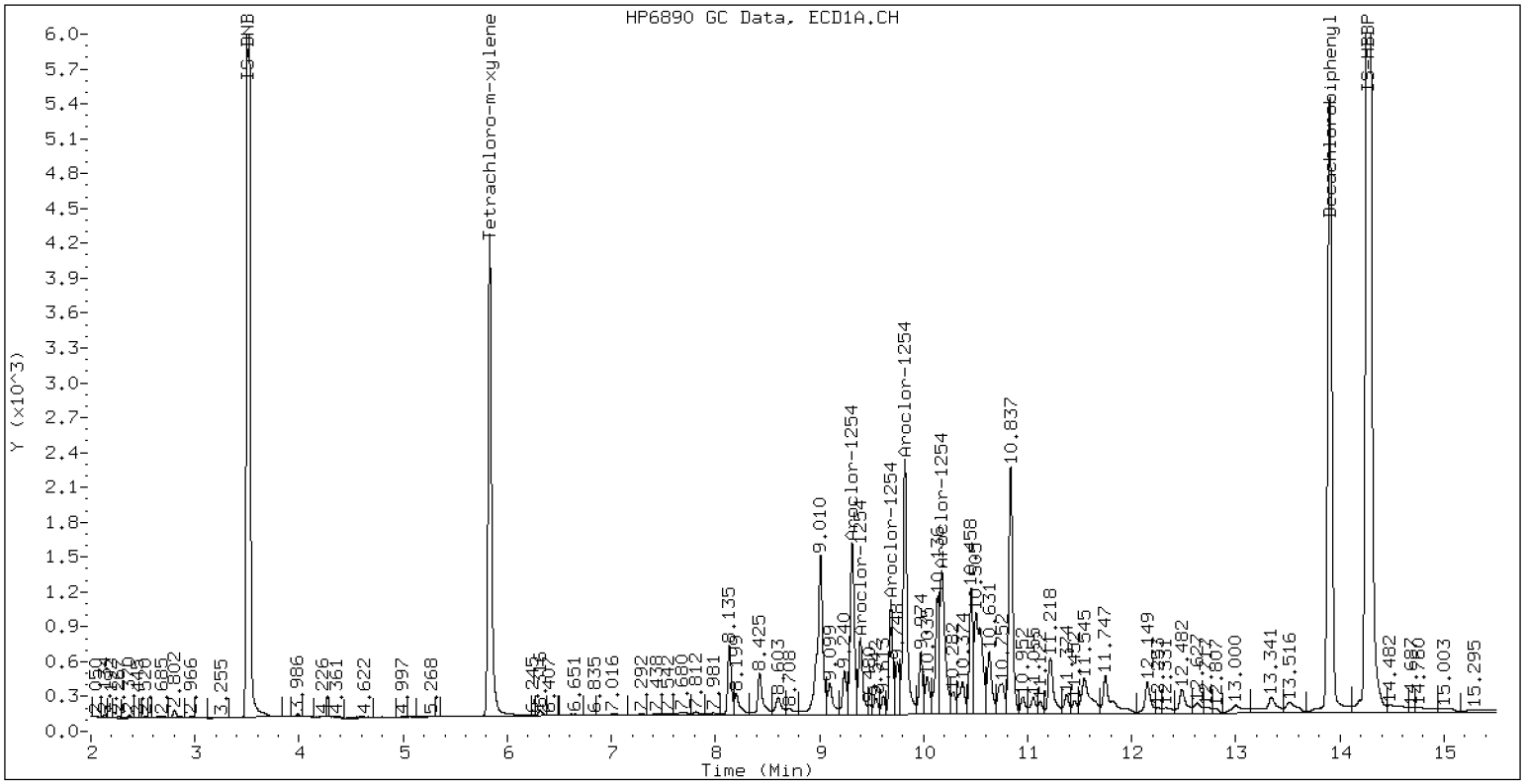
Total PCB Area Col2 (5.808 - 14.029) = 735302 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

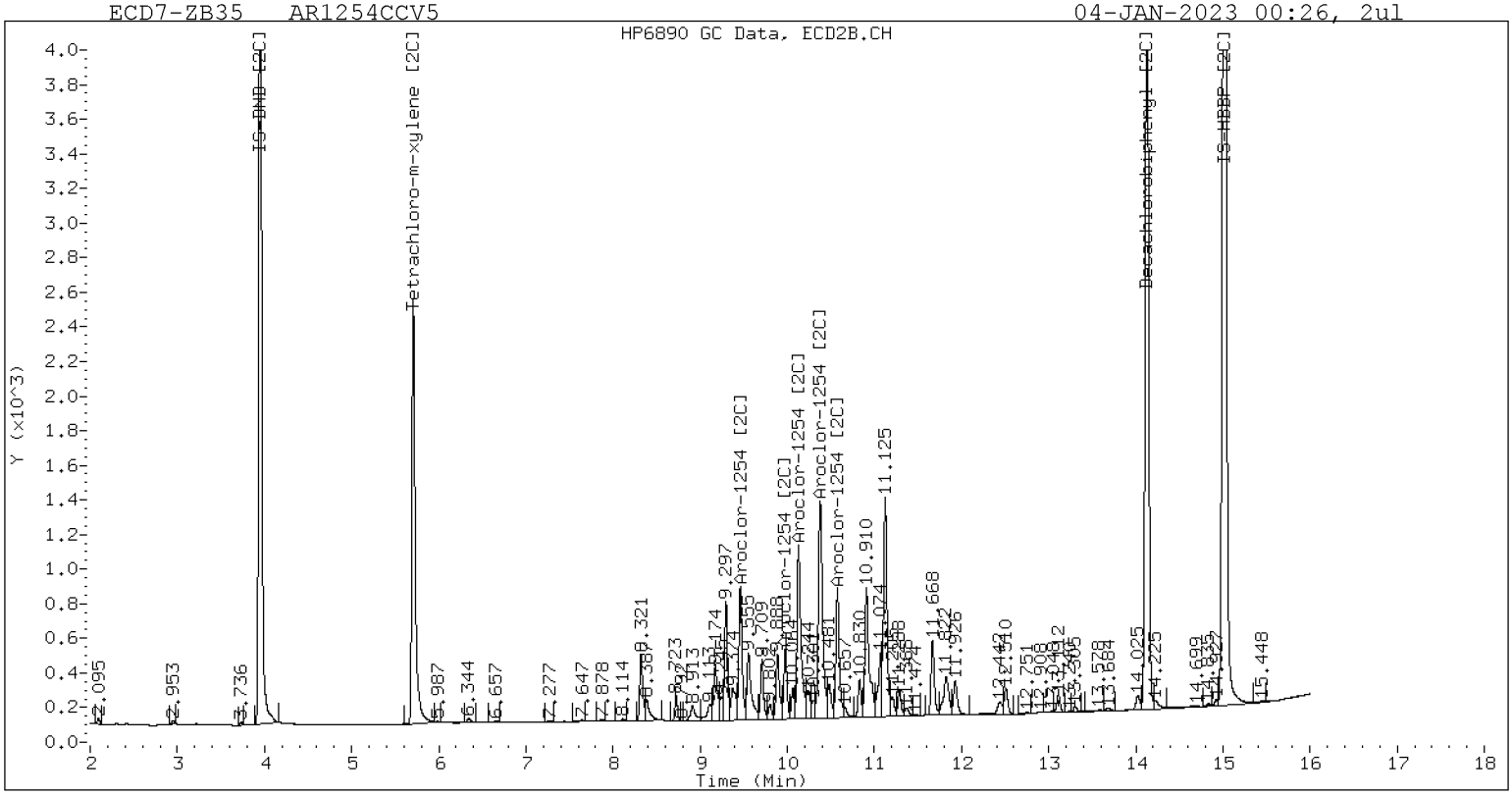
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 04-JAN-2023 00:26, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1254CCV5 04-JAN-2023 00:26, 2ul

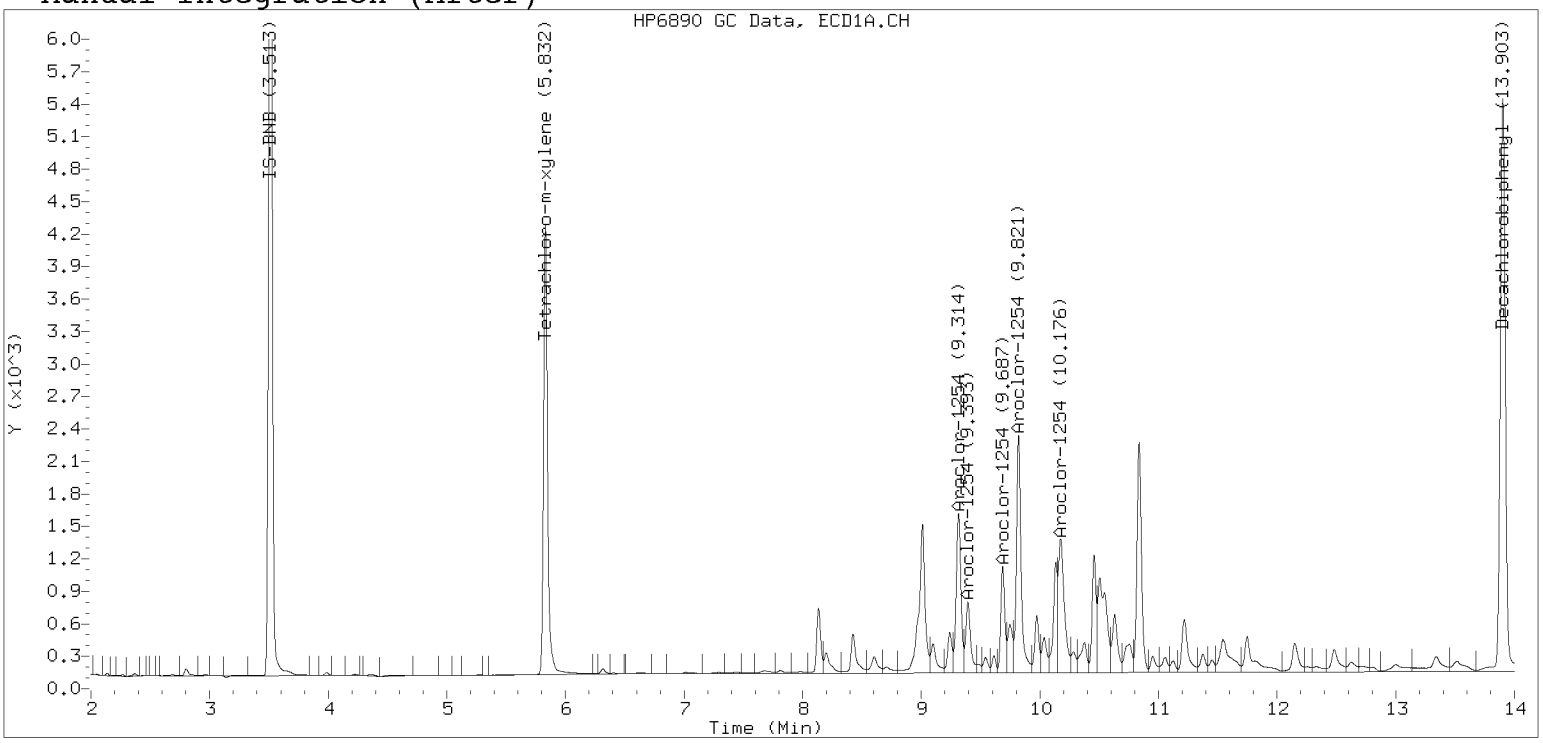


ZB-35 Manual Integration: NO

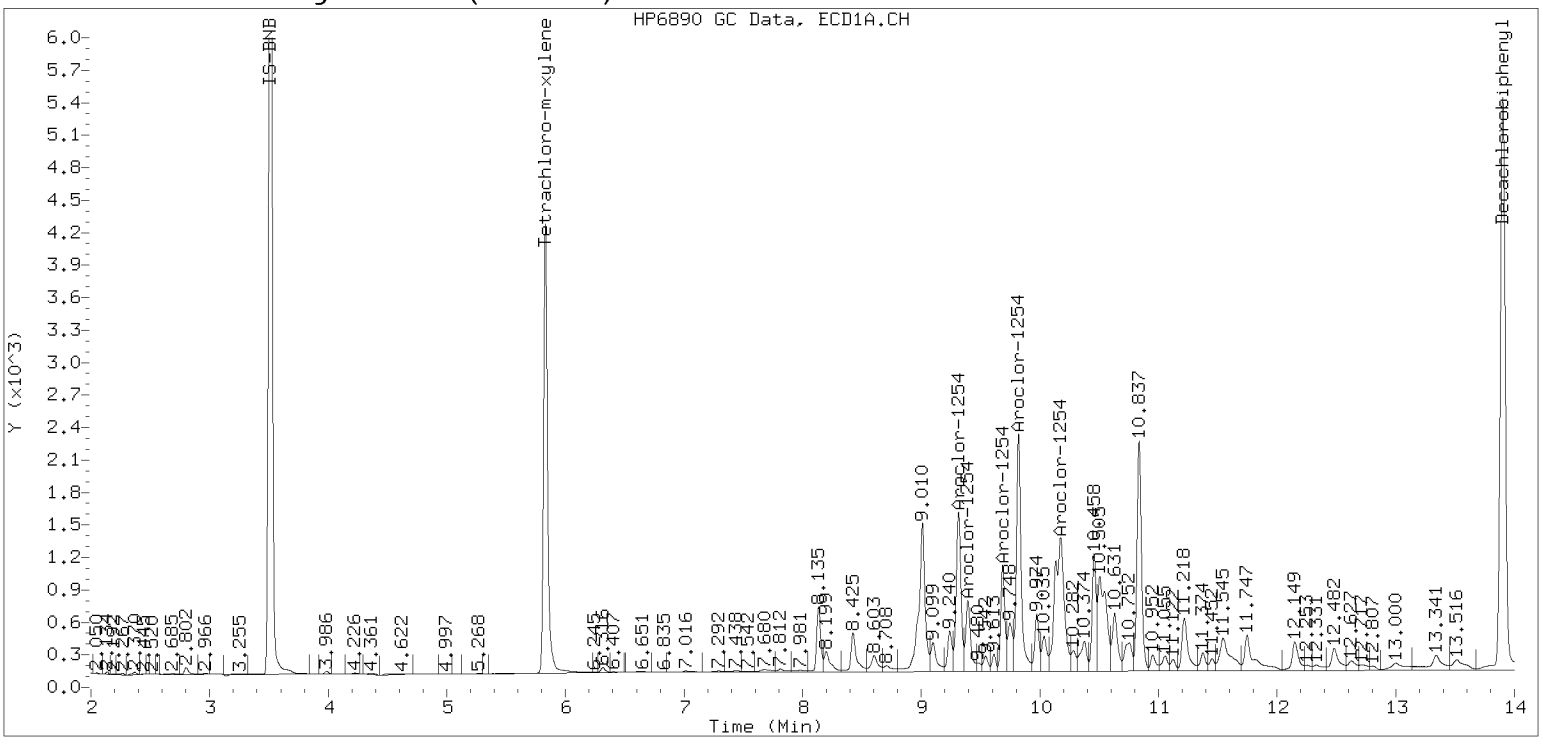
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230103.b/01032347ECD7.D Injection Date: 04-JAN-2023 00:26

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01032348ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0079	Injection Date:	01/04/23
Lab Sample ID:	SLA0079-CCV6	Injection Time:	00:47
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	298	0.0441939	0.0511276		19.2	+/-20
Aroclor-1016 (1)	A	250.00	279	0.0266860	0.0297468		11.6	
Aroclor-1016 (2)	A	250.00	275	0.0861572	0.0947132		10.0	
Aroclor-1016 (3)	A	250.00	293	0.0390425	0.0457209		17.2	
Aroclor-1016 (4)	A	250.00	345	0.0248899	0.0343296		38.0	
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0419381		-4.2	+/-20
Aroclor-1016 (1) [2C]	A	250.00	251	0.0409030	0.0410991		0.4	
Aroclor-1016 (2) [2C]	A	250.00	193	0.0882154	0.0681188		-22.8	
Aroclor-1016 (3) [2C]	A	250.00	244	0.0378846	0.0370051		-2.4	
Aroclor-1016 (4) [2C]	A	250.00	270	0.0199212	0.0215293		8.0	
Aroclor 1260	A	250.00	280	0.0390342	0.0434253		11.9	+/-20
Aroclor-1260 (1)	A	250.00	274	0.0291201	0.0318922		9.6	
Aroclor-1260 (2)	A	250.00	274	0.0301181	0.0330626		9.6	
Aroclor-1260 (3)	A	250.00	280	0.0791351	0.0886113		12.0	
Aroclor-1260 (4)	A	250.00	272	0.0403003	0.0438071		8.8	
Aroclor-1260 (5)	A	250.00	299	0.0164974	0.0197532		19.6	
Aroclor 1260 [2C]	A	250.00	213	0.0617619	0.0481785		-14.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	245	0.0422283	0.0413648		-2.0	
Aroclor-1260 (2) [2C]	A	250.00	166	0.1059643	0.0702418		-33.6	
Aroclor-1260 (3) [2C]	A	250.00	258	0.0282173	0.0291401		3.2	
Aroclor-1260 (4) [2C]	A	250.00	184	0.0706376	0.0519673		-26.4	
Decachlorobiphenyl	A	40.000	45.4	0.7333327	0.8321665		13.5	+/-20
Tetrachlorometaxylene	A	40.000	40.0	1.1336710	1.1337850		0.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.6	1.1358180	1.2105940		6.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.0966080	1.0990500		0.3	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230103.b/01032348ECD7.D
Data file 2: /230103.b/230103.b/01032348ECD7.D
Method: \\target\share\chem4\ecd7.i\230103.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 04-JAN-2023 00:47
Report Date: 01/06/2023 17:01
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.000	164472	5.708	0.000	110560	40.0	40.1	0.2	Tetrachloro-m-xylene
13.903	-0.000	274399	14.129	0.000	209069	45.4	42.6	6.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	290129	-35.2
Hexabromobiphenyl	798898	659481	-17.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	201192	-19.2
Hexabromobiphenyl	362541	345399	-4.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	26970	278.7	1	7.272	0.000	25840	251.2
Aroclor-1016	2	7.676	-0.009	85872	274.8	2	7.872	0.000	42828	193.0
Aroclor-1016	3	7.811	-0.007	41453	292.8	3	8.071	0.000	23266	244.2
Aroclor-1016	4	8.423	-0.007	31125	344.8	4	8.241	0.000	13536	270.2
Total Col1Ave (4 peaks):					297.8	Total Col2Ave (4 peaks):				239.7 RPD = 22
Corrected Ave (3 peaks):					282.1	Corrected Ave (3 peaks):				229.5 RPD = 21
CalAmt %D:					19.1	CalAmt %D:				-4.1
Aroclor-1260	1	11.055	-0.007	65726	273.8	1	11.663	0.000	44648	244.9
Aroclor-1260	2	11.372	-0.005	68138	274.4	2	11.926	0.000	75817	165.7
Aroclor-1260	3	11.746	-0.006	182617	279.9	3	12.444	0.000	31453	258.2
Aroclor-1260	4	12.150	-0.009	90281	271.8	4	12.509	0.000	56092	183.9
Aroclor-1260	5	12.256	-0.006	40709	299.3	NS	---			----
Total Col1Ave (5 peaks):					279.9	Total Col2Ave (4 peaks):				213.2 RPD = 27
Corrected Ave (4 peaks):					275.0	Corrected Ave (3 peaks):				198.2 RPD = 32
CalAmt %D:					11.9	CalAmt %D:				-14.7

Total PCB Area Col1 (5.932 - 13.803) = 1893243 Col1 Total PCB = 0.7 ppm*

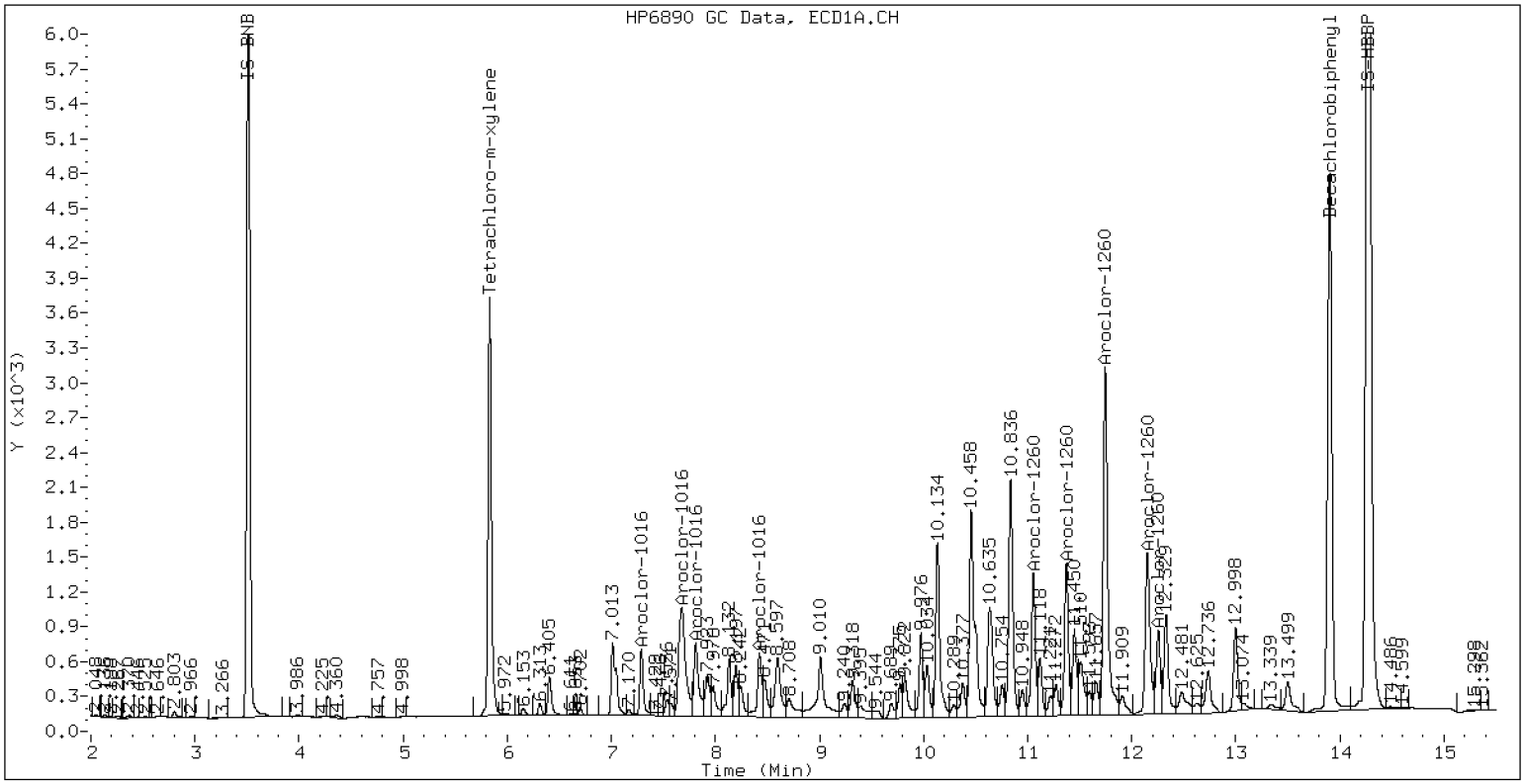
Total PCB Area Col2 (5.808 - 14.029) = 955529 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

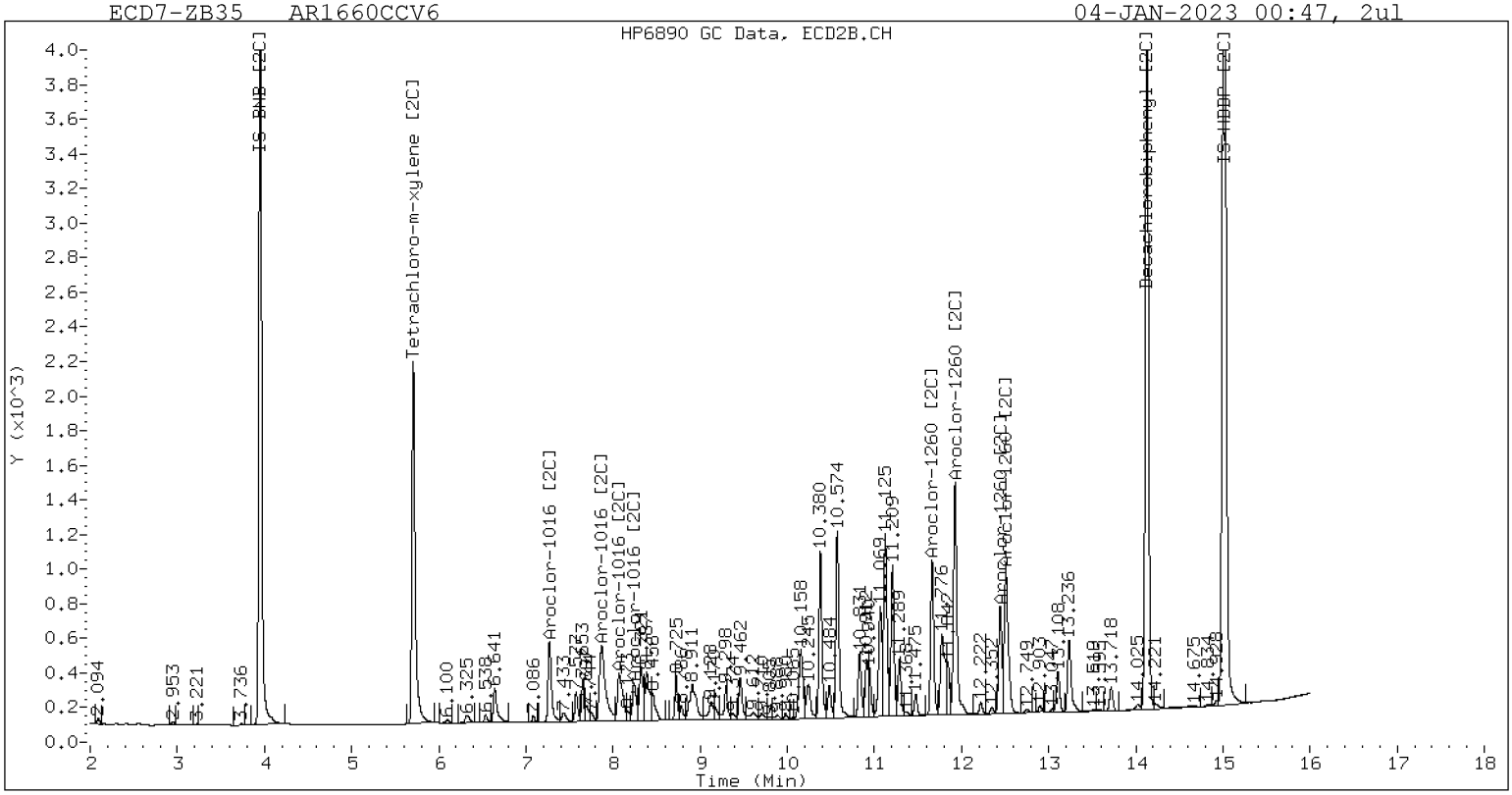
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 04-JAN-2023 00:47, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 04-JAN-2023 00:47, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042320ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV1	Injection Time:	16:03
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	274	0.0490062	0.0553431		9.4	+/-20
Aroclor-1248 (1)	A	250.00	302		0.0415649			
Aroclor-1248 (2)	A	250.00	315		0.0553657			
Aroclor-1248 (3)	A	250.00	313		0.0990130			
Aroclor-1248 (4)	A	250.00	164		0.0254290			
Aroclor 1248 [2C]	A	250.00	254	0.0394876	0.0405811		1.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	264		0.0345005			
Aroclor-1248 (2) [2C]	A	250.00	189		0.0260032			
Aroclor-1248 (3) [2C]	A	250.00	286		0.0478260			
Aroclor-1248 (4) [2C]	A	250.00	275		0.0539948			
Decachlorobiphenyl	A	40.000	41.4	0.7333327	0.7596855		3.5	+/-20
Tetrachlorometaxylene	A	40.000	36.3	1.1336710	1.0293700		-9.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1596760		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.2	1.0966080	1.0196630		-7.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042320ECD7.D
Data file 2: /230104.b/230104.b/01042320ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV1
Client ID:
Injection Date: 04-JAN-2023 16:03
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	184512	5.709	0.002	125701	36.3	37.2	2.4	Tetrachloro-m-xylene
13.903	0.002	328281	14.129	0.001	253162	41.4	40.8	1.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	358495	-19.9
Hexabromobiphenyl	798898	864255	8.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	246554	-1.0
Hexabromobiphenyl	362541	436608	20.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.424	-0.004	46565	302.1	1	8.321	0.001	26582	263.9
Aroclor-1248	2	8.600	-0.004	62026	315.2	2	8.726	0.001	20035	189.1
Aroclor-1248	3	9.018	-0.004	110924	313.3	3	9.173	0.002	36849	286.0
Aroclor-1248	4	9.310	-0.002	28488	164.2	4	9.593	0.001	41602	275.0
Total Col1Ave (4 peaks):					273.7	Total Col2Ave (4 peaks):				253.5 RPD = 8
Corrected Ave (3 peaks):					259.9	Corrected Ave (3 peaks):				242.7 RPD = 7
CalAmt %D:					9.5	CalAmt %D:				1.4

Total PCB Area Col1 (5.930 - 13.802) = 1077438 Col1 Total PCB = 0.3 ppm*

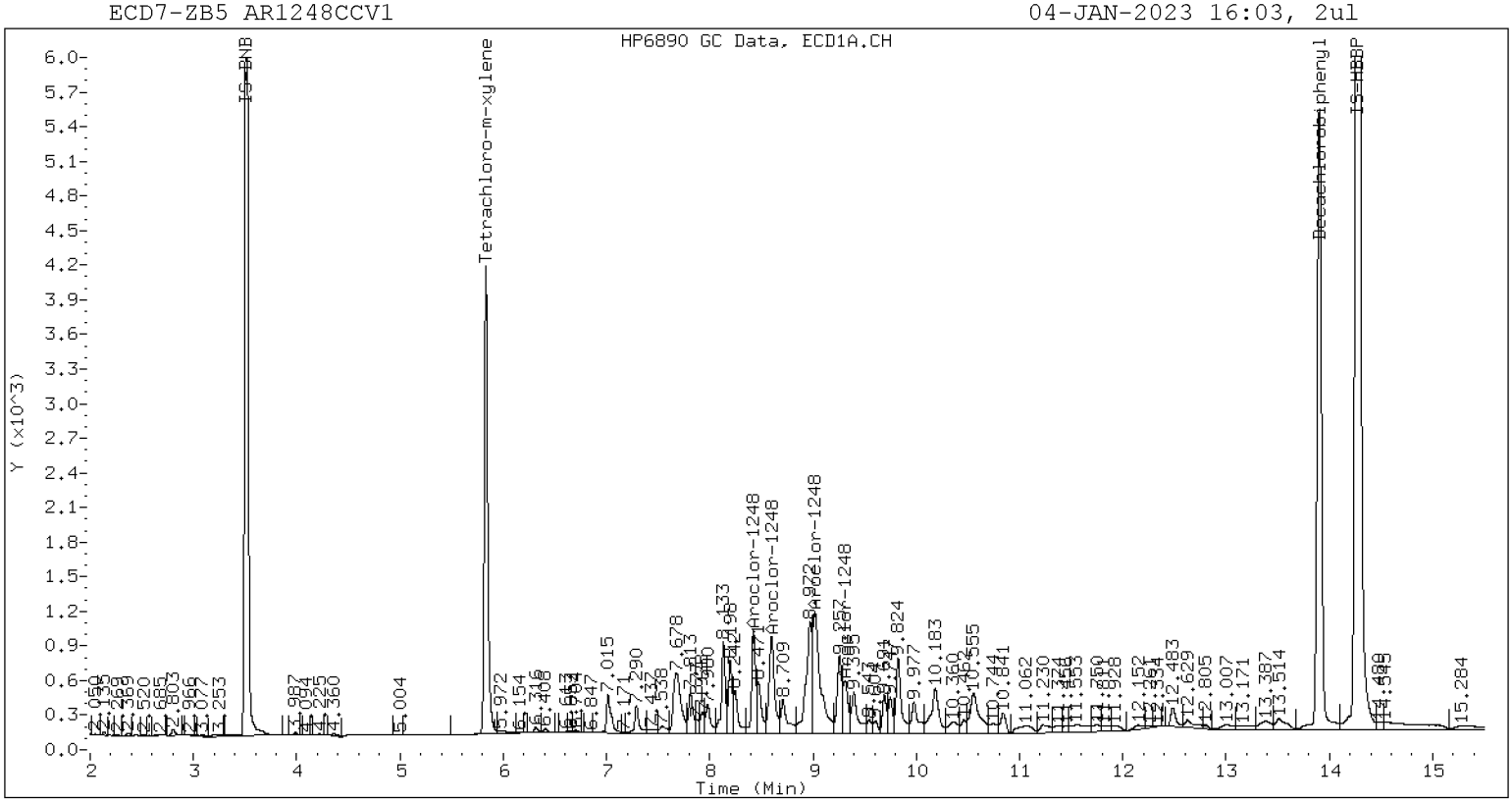
Total PCB Area Col2 (5.807 - 14.028) = 520222 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

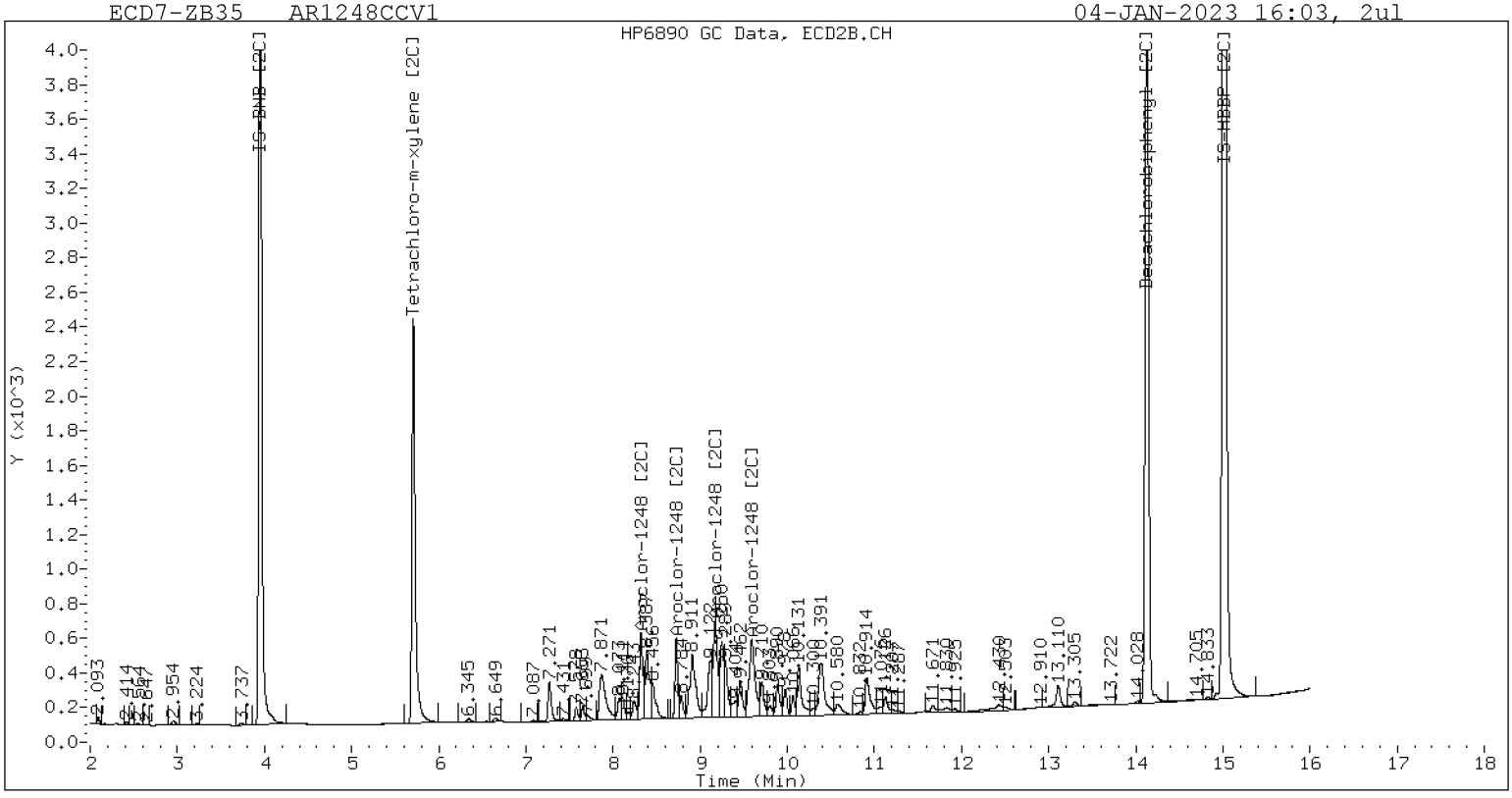
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV1 04-JAN-2023 16:03, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV1 04-JAN-2023 16:03, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042321ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV2	Injection Time:	16:25
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	303	0.0441939	0.0515062		21.2	+/-20 *
Aroclor-1016 (1)	A	250.00	285	0.0266860	0.0304617		14.0	
Aroclor-1016 (2)	A	250.00	271	0.0861572	0.0932954		8.4	
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0467885		20.0	
Aroclor-1016 (4)	A	250.00	356	0.0248899	0.0354791		42.4	
Aroclor 1016 [2C]	A	250.00	236	0.0467310	0.0413050		-5.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399802		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	191	0.0882154	0.0674922		-23.6	
Aroclor-1016 (3) [2C]	A	250.00	242	0.0378846	0.0366139		-3.2	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211338		6.0	
Aroclor 1260	A	250.00	262	0.0390342	0.0407576		5.0	+/-20
Aroclor-1260 (1)	A	250.00	261	0.0291201	0.0304262		4.4	
Aroclor-1260 (2)	A	250.00	261	0.0301181	0.0314406		4.4	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0829739		4.8	
Aroclor-1260 (4)	A	250.00	252	0.0403003	0.0407005		0.8	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182469		10.4	
Aroclor 1260 [2C]	A	250.00	204	0.0617619	0.0461385		-18.3	+/-20
Aroclor-1260 (1) [2C]	A	250.00	230	0.0422283	0.0388640		-8.0	
Aroclor-1260 (2) [2C]	A	250.00	158	0.1059643	0.0669712		-36.8	
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0282002		0.0	
Aroclor-1260 (4) [2C]	A	250.00	179	0.0706376	0.0505187		-28.4	
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8010417		9.3	+/-20
Tetrachlorometaxylene	A	40.000	38.8	1.1336710	1.1013290		-3.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1505600		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0962090		0.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042321ECD7.D
Data file 2: /230104.b/230104.b/01042321ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV2
Client ID:
Injection Date: 04-JAN-2023 16:25
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	142692	5.709	0.002	96080	38.9	40.0	2.9	Tetrachloro-m-xylene
13.903	0.001	259769	14.128	0.001	187822	43.7	40.5	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259127	-42.1
Hexabromobiphenyl	798898	648578	-18.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	175295	-29.6
Hexabromobiphenyl	362541	326488	-9.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	24667	285.4	1	7.272	0.003	21901	244.4
Aroclor-1016	2	7.680	0.003	75548	270.7	2	7.872	0.001	36972	191.3
Aroclor-1016	3	7.813	0.000	37888	299.6	3	8.072	0.003	20057	241.6
Aroclor-1016	4	8.423	0.002	28730	356.4	4	8.242	0.002	11577	265.2
Total Col1Ave (4 peaks):					303.0	Total Col2Ave (4 peaks):				235.6 RPD = 25
Corrected Ave (3 peaks):					285.2	Corrected Ave (3 peaks):				225.7 RPD = 23
CalAmt %D:					21.2	CalAmt %D:				-5.8
Aroclor-1260	1	11.056	0.000	61668	261.2	1	11.662	0.002	39652	230.1
Aroclor-1260	2	11.373	0.001	63724	261.0	2	11.925	0.001	68329	158.0
Aroclor-1260	3	11.746	0.000	168172	262.1	3	12.444	0.001	28772	249.8
Aroclor-1260	4	12.151	0.001	82492	252.5	4	12.508	0.002	51543	178.8
Aroclor-1260	5	12.256	0.002	36983	276.5	NS	---			----
Total Col1Ave (5 peaks):					262.7	Total Col2Ave (4 peaks):				204.2 RPD = 25
Corrected Ave (4 peaks):					259.2	Corrected Ave (3 peaks):				189.0 RPD = 31
CalAmt %D:					5.1	CalAmt %D:				-18.3

Total PCB Area Col1 (5.930 - 13.802) = 1791246 Col1 Total PCB = 0.7 ppm*

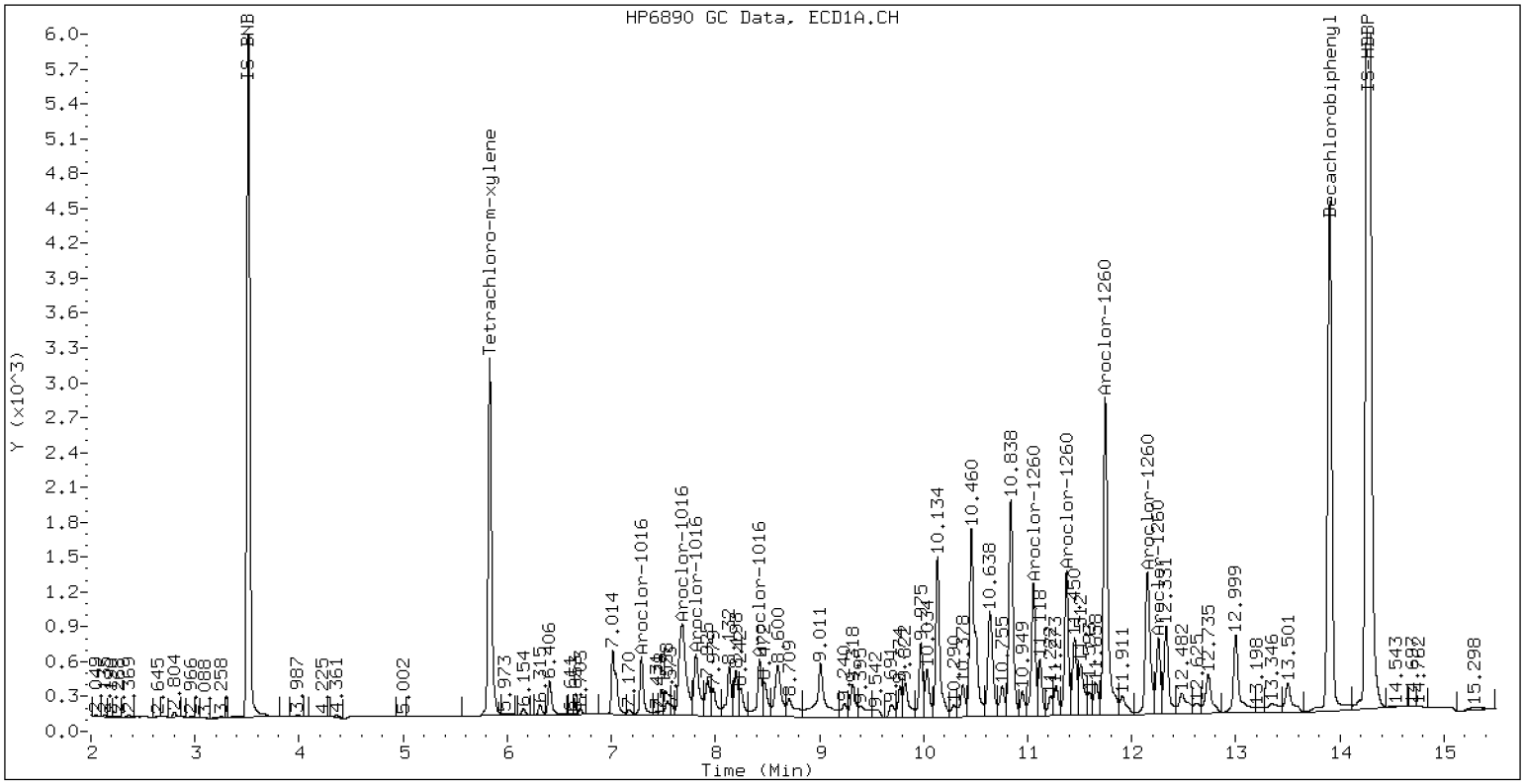
Total PCB Area Col2 (5.807 - 14.028) = 839931 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

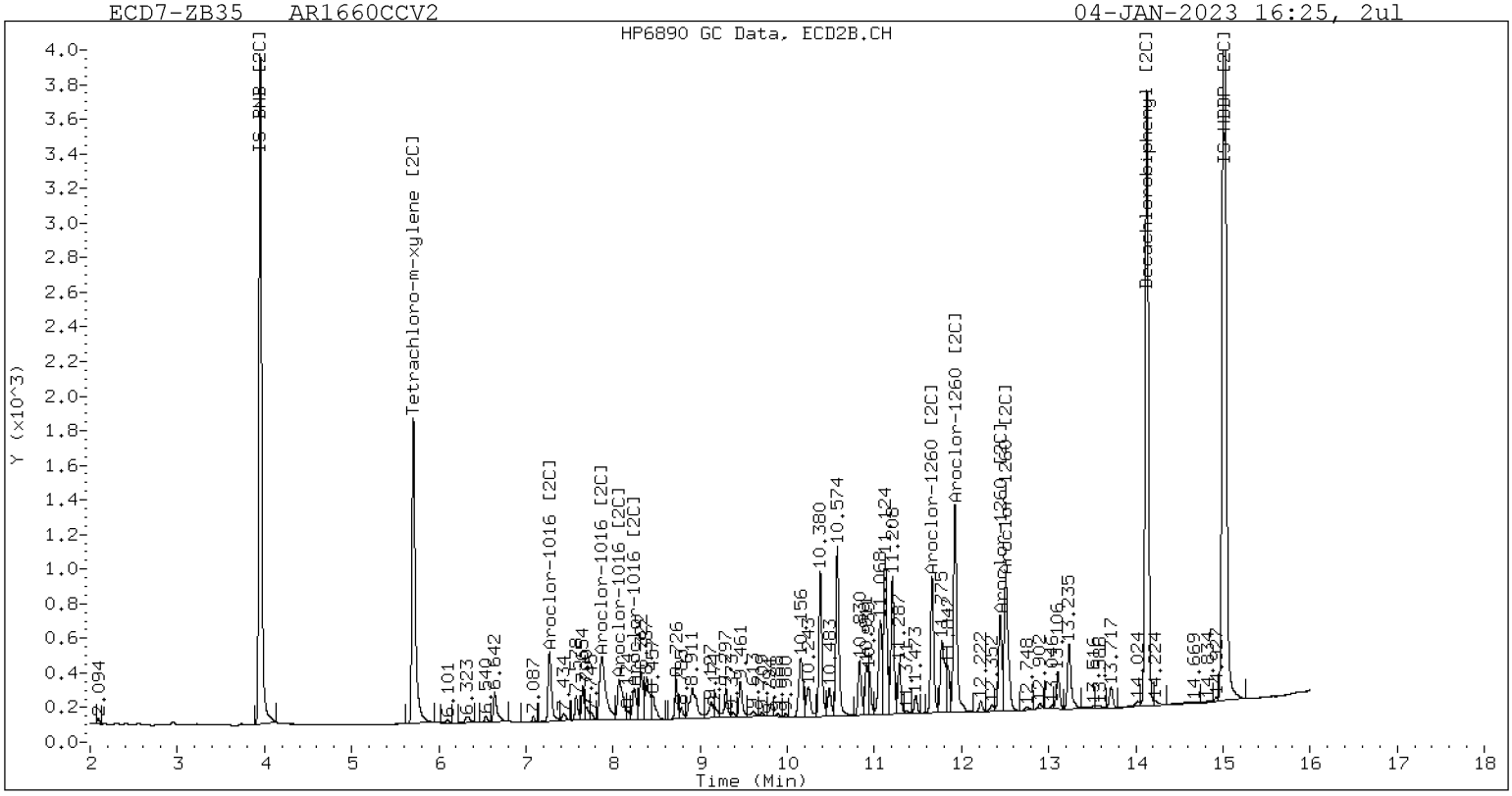
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV2 04-JAN-2023 16:25, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV2 04-JAN-2023 16:25, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042338ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV3	Injection Time:	22:23
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	301	0.0396000	0.0455620		20.3	+/-20
Aroclor-1242 (1)	A	250.00	323		0.0292788			
Aroclor-1242 (2)	A	250.00	285		0.0821395			
Aroclor-1242 (3)	A	250.00	354		0.0293497			
Aroclor-1242 (4)	A	250.00	241		0.0414800			
Aroclor 1242 [2C]	A	250.00	260	0.0391981	0.0378458		3.8	+/-20
Aroclor-1242 (1) [2C]	A	250.00	260		0.0352222			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0567736			
Aroclor-1242 (3) [2C]	A	250.00	289		0.0268433			
Aroclor-1242 (4) [2C]	A	250.00	292		0.0325440			
Decachlorobiphenyl	A	40.000	43.8	0.7333327	0.8038169		9.5	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1057410		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.4	1.1358180	1.1192630		-1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.6	1.0966080	1.0584320		-3.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042338ECD7.D
Data file 2: /230104.b/230104.b/01042338ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 04-JAN-2023 22:23
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	179627	5.707	0.000	120965	39.0	38.6	1.0	Tetrachloro-m-xylene
13.902	0.001	265561	14.127	-0.001	205551	43.8	39.4	10.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	324899	-27.4
Hexabromobiphenyl	798898	660750	-17.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	228574	-8.2
Hexabromobiphenyl	362541	367297	1.3

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.288	0.000	29727	322.8	1	7.270	0.001	25159	260.1
Aroclor-1242	2	7.675	0.001	83397	285.2	2	7.871	0.002	40553	197.5
Aroclor-1242	3	8.422	0.001	29799	354.2	3	9.169	0.002	19174	289.4
Aroclor-1242	4	9.020	-0.001	42115	241.1	4	9.590	0.002	23246	291.9
Total Col1Ave (4 peaks):					300.8	Total Col2Ave (4 peaks):				259.7 RPD = 15
Corrected Ave (3 peaks):					283.0	Corrected Ave (3 peaks):				249.0 RPD = 13
CalAmt %D:					20.3	CalAmt %D:				3.9

Total PCB Area Col1 (5.930 - 13.802) = 992773 Col1 Total PCB = 0.3 ppm*

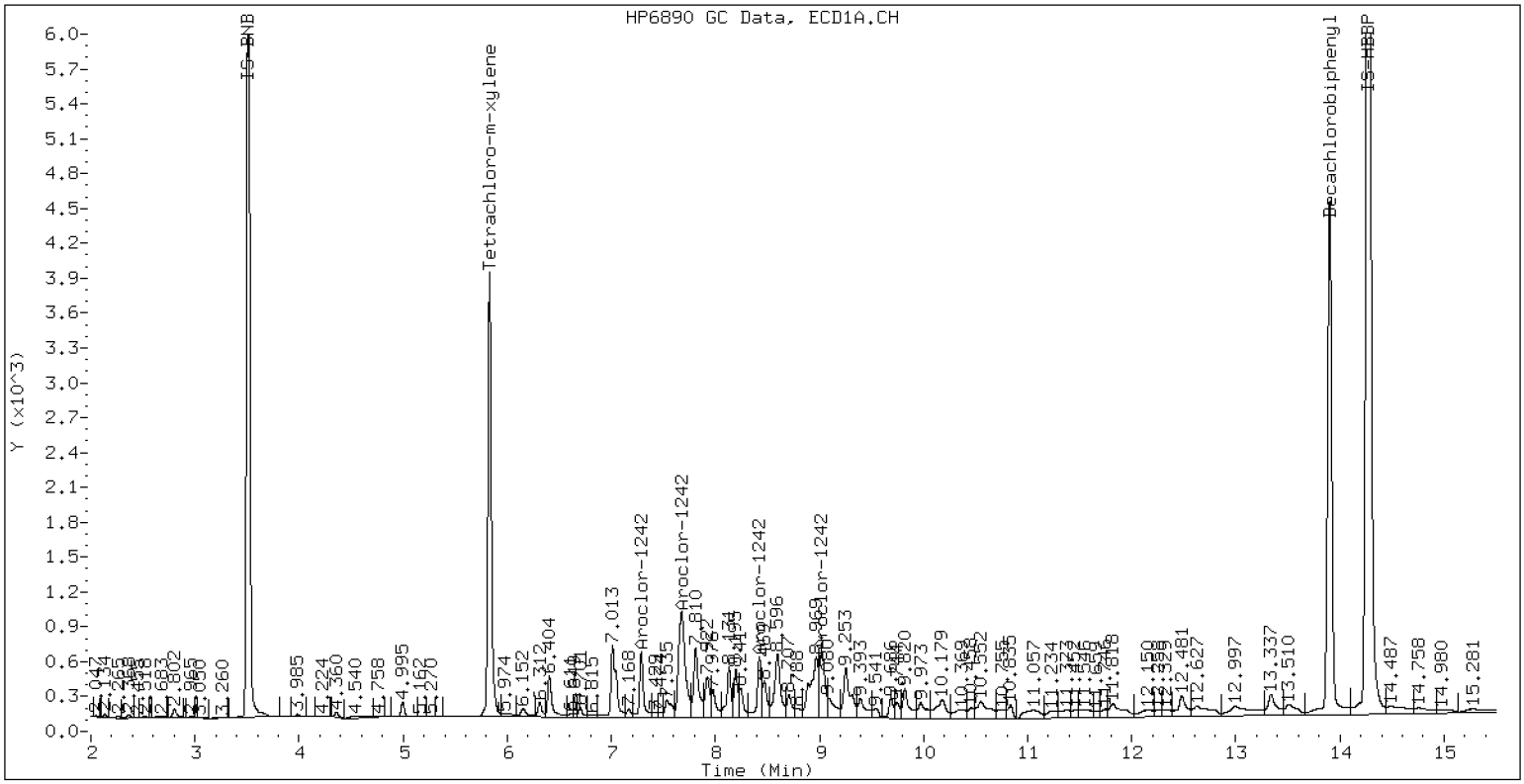
Total PCB Area Col2 (5.807 - 14.028) = 394777 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

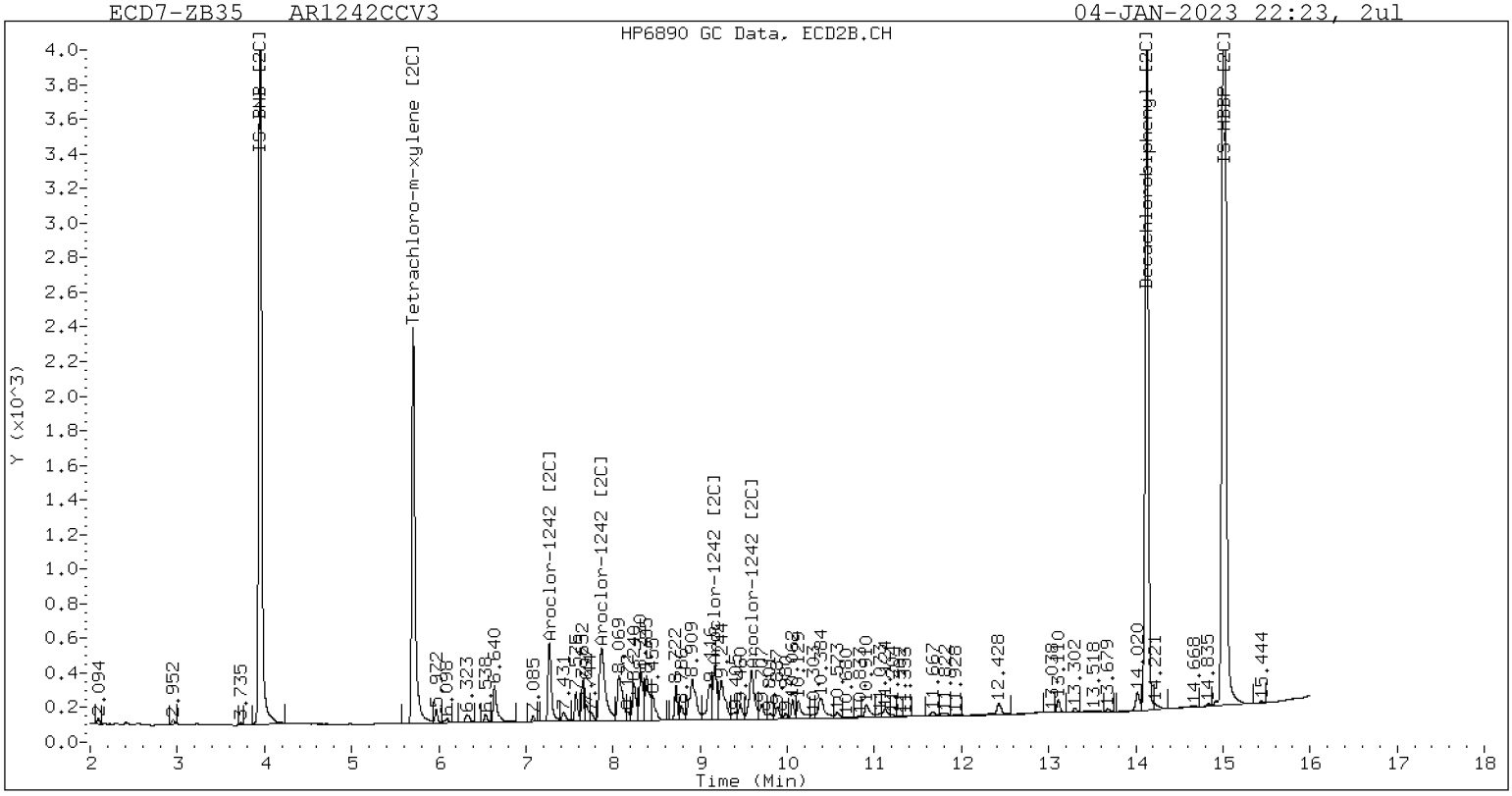
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 04-JAN-2023 22:23, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV3 04-JAN-2023 22:23, 2ul

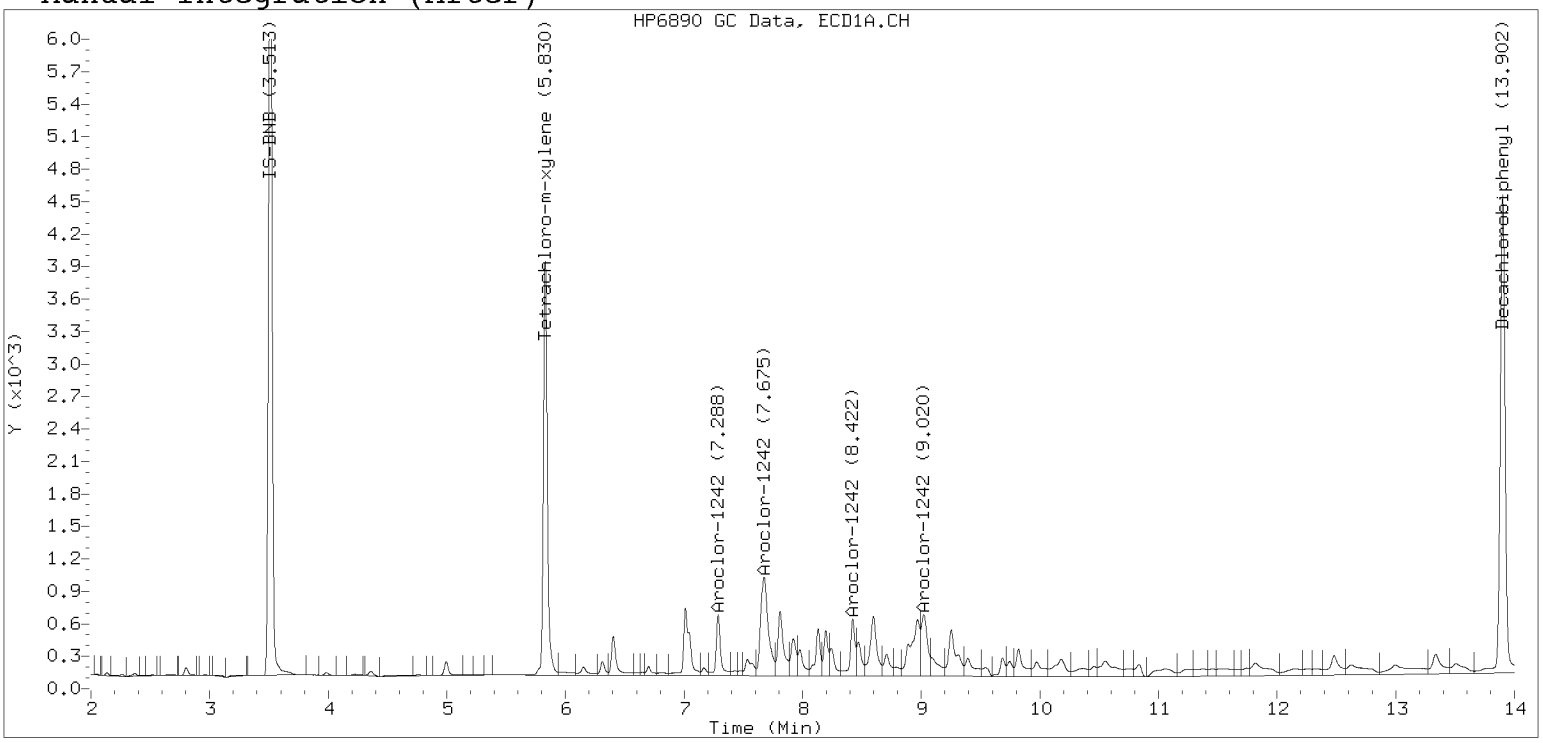


ZB-35 Manual Integration: NO

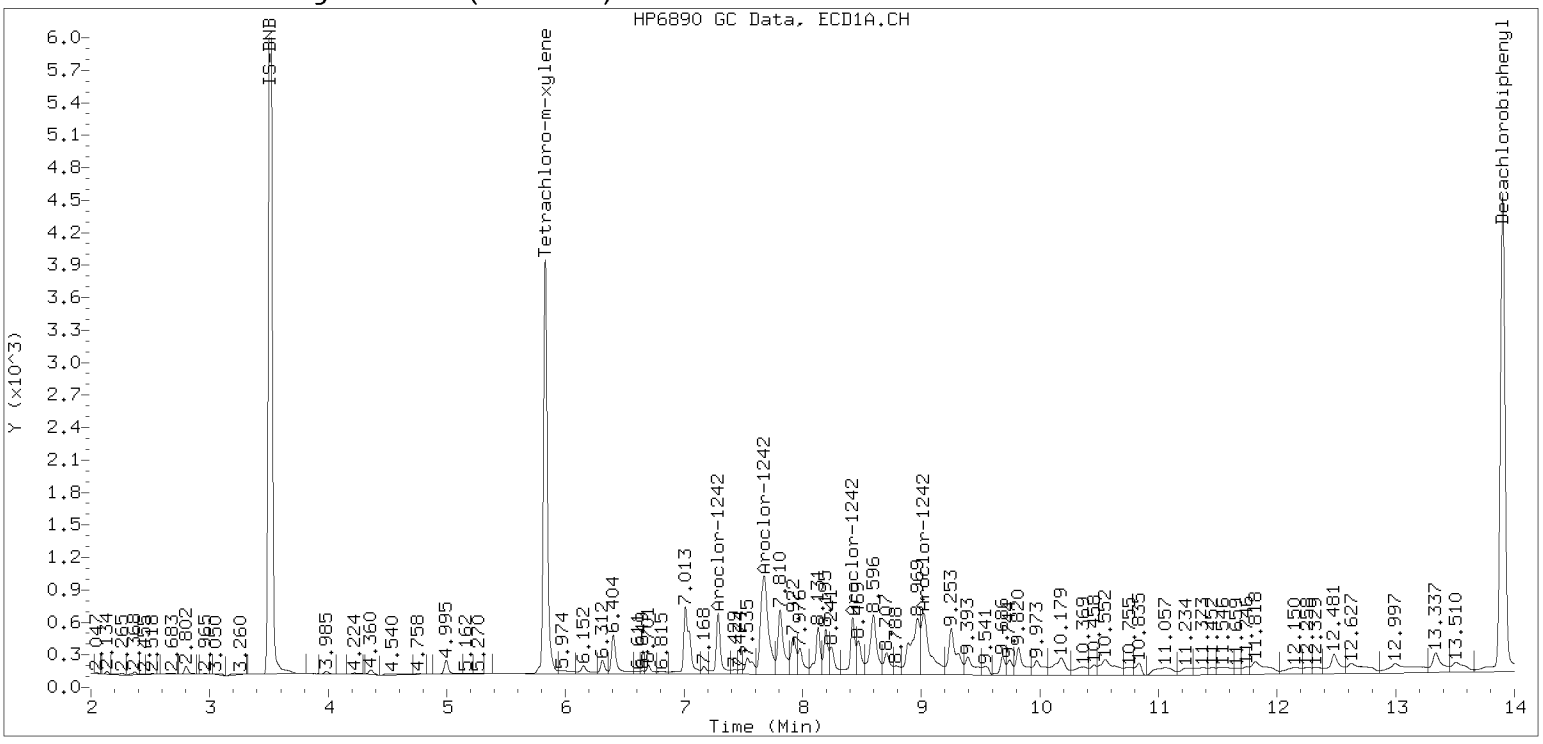
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042338ECD7.D Injection Date: 04-JAN-2023 22:23

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042339ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/04/23
Lab Sample ID:	SLA0094-CCV4	Injection Time:	22:44
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	314	0.0441939	0.0531554		25.5	+/-20 *
Aroclor-1016 (1)	A	250.00	323	0.0266860	0.0344839		29.2	
Aroclor-1016 (2)	A	250.00	276	0.0861572	0.0952794		10.4	
Aroclor-1016 (3)	A	250.00	309	0.0390425	0.0483100		23.6	
Aroclor-1016 (4)	A	250.00	347	0.0248899	0.0345481		38.8	
Aroclor 1016 [2C]	A	250.00	241	0.0467310	0.0422410		-3.8	+/-20
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0414749		1.2	
Aroclor-1016 (2) [2C]	A	250.00	195	0.0882154	0.0687633		-22.0	
Aroclor-1016 (3) [2C]	A	250.00	247	0.0378846	0.0374101		-1.2	
Aroclor-1016 (4) [2C]	A	250.00	267	0.0199212	0.0213155		6.8	
Aroclor 1260	A	250.00	289	0.0390342	0.0449270		15.8	+/-20
Aroclor-1260 (1)	A	250.00	291	0.0291201	0.0338820		16.4	
Aroclor-1260 (2)	A	250.00	288	0.0301181	0.0347281		15.2	
Aroclor-1260 (3)	A	250.00	289	0.0791351	0.0914454		15.6	
Aroclor-1260 (4)	A	250.00	277	0.0403003	0.0446536		10.8	
Aroclor-1260 (5)	A	250.00	302	0.0164974	0.0199259		20.8	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0467710		-17.6	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393641		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	162	0.1059643	0.0686665		-35.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279592		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	181	0.0706376	0.0510942		-27.6	
Decachlorobiphenyl	A	40.000	47.1	0.7333327	0.8628283		17.8	+/-20
Tetrachlorometaxylene	A	40.000	40.3	1.1336710	1.1422770		0.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.9	1.1358180	1.1337290		-0.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1057700		0.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042339ECD7.D
Data file 2: /230104.b/230104.b/01042339ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 04-JAN-2023 22:44
Report Date: 01/09/2023 14:48
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	148050	5.708	0.001	96714	40.3	40.3	0.1	Tetrachloro-m-xylene
13.902	0.001	241472	14.127	-0.000	179060	47.1	39.9	16.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	259219	-42.1
Hexabromobiphenyl	798898	559722	-29.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	174926	-29.8
Hexabromobiphenyl	362541	315878	-12.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	0.000	27934	323.1	1	7.270	0.001	22672	253.5
Aroclor-1016	2	7.677	0.000	77182	276.5	2	7.870	-0.001	37589	194.9
Aroclor-1016	3	7.812	0.000	39134	309.3	3	8.071	0.002	20450	246.9
Aroclor-1016	4	8.421	0.000	27986	347.0	4	8.241	0.001	11652	267.5
Total Col1Ave (4 peaks):					314.0	Total Col2Ave (4 peaks):				240.7 RPD = 26
Corrected Ave (3 peaks):					303.0	Corrected Ave (3 peaks):				231.7 RPD = 27
CalAmt %D:					25.6	CalAmt %D:				-3.7
Aroclor-1260	1	11.056	0.000	59264	290.9	1	11.662	0.001	38857	233.0
Aroclor-1260	2	11.372	0.000	60744	288.3	2	11.924	0.000	67782	162.0
Aroclor-1260	3	11.746	0.000	159950	288.9	3	12.442	-0.001	27599	247.7
Aroclor-1260	4	12.150	0.000	78105	277.0	4	12.507	0.001	50436	180.8
Aroclor-1260	5	12.255	0.000	34853	302.0	NS	---			----
Total Col1Ave (5 peaks):					289.4	Total Col2Ave (4 peaks):				205.9 RPD = 34
Corrected Ave (4 peaks):					286.3	Corrected Ave (3 peaks):				192.0 RPD = 39
CalAmt %D:					15.8	CalAmt %D:				-17.6

Total PCB Area Col1 (5.930 - 13.802) = 1764265 Col1 Total PCB = 0.7 ppm*

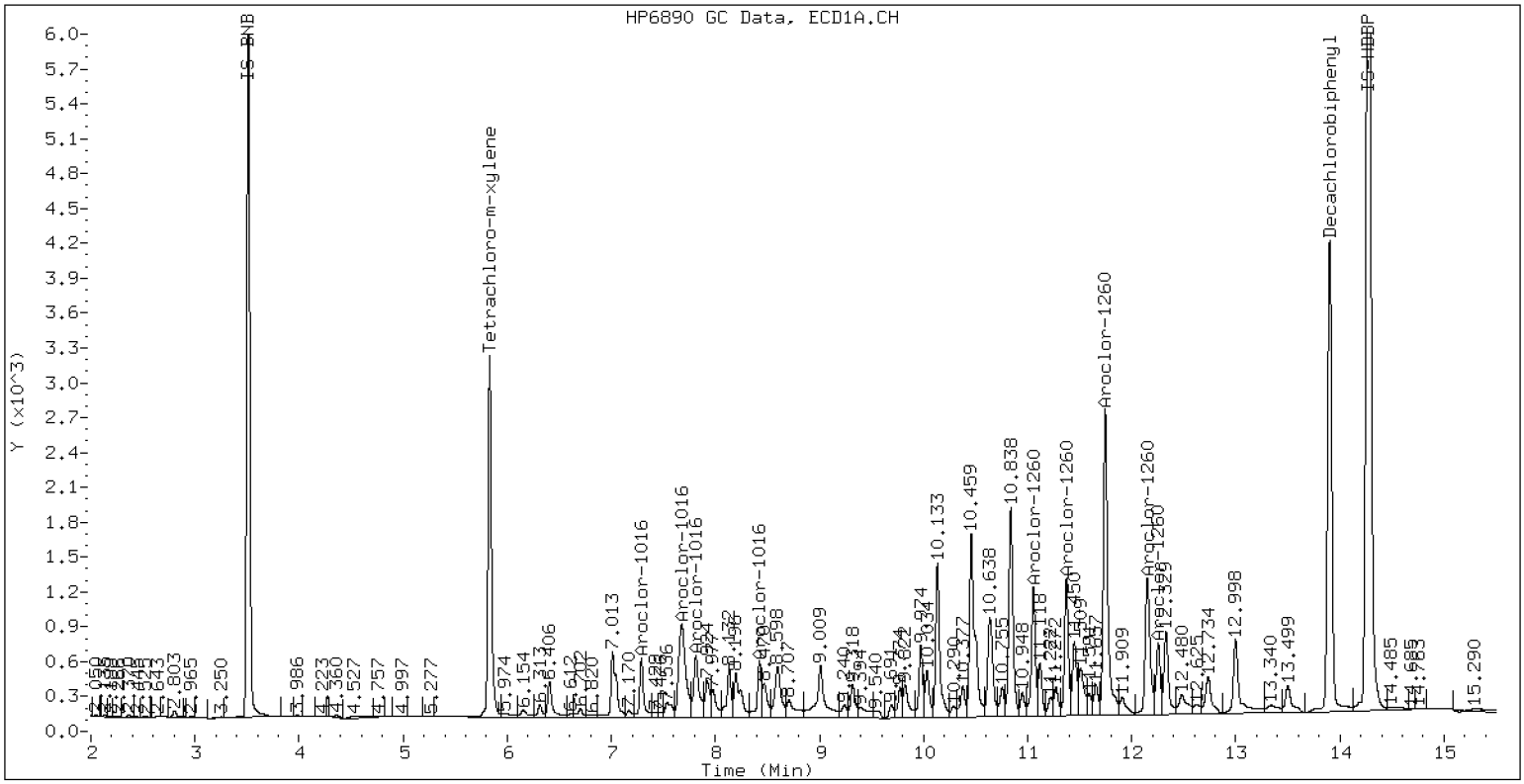
Total PCB Area Col2 (5.807 - 14.028) = 830448 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

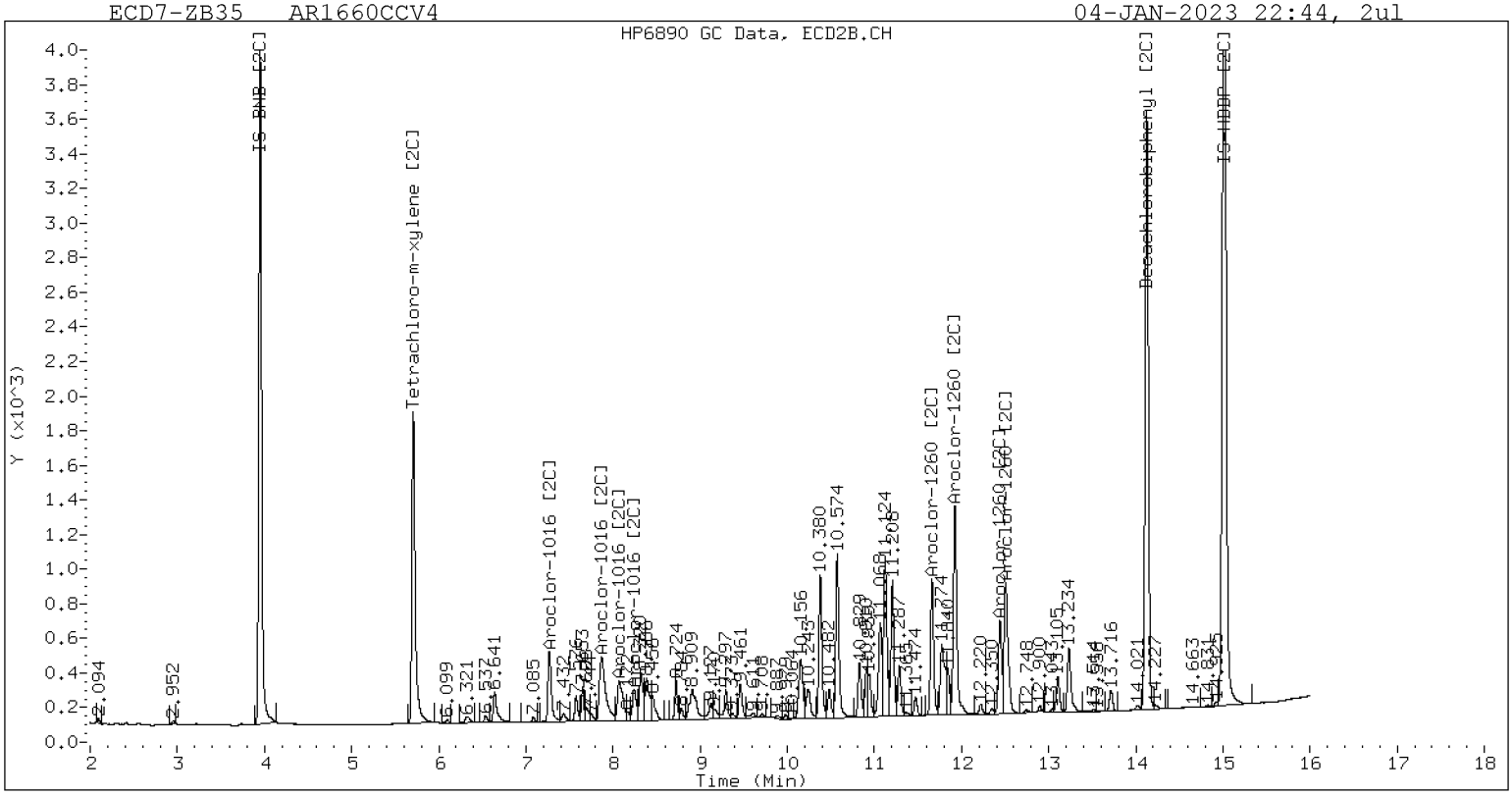
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 04-JAN-2023 22:44, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1660CCV4 04-JAN-2023 22:44, 2ul

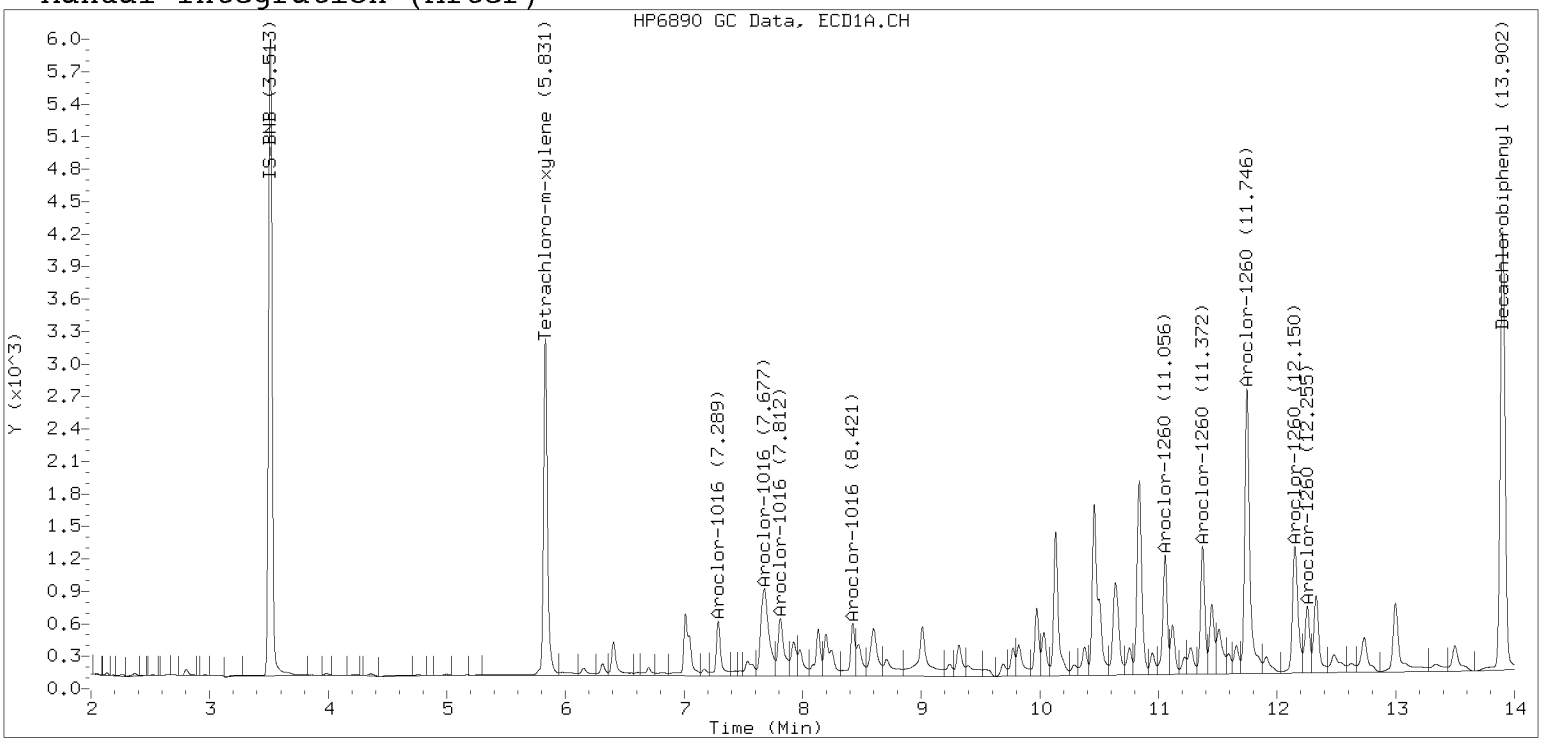


ZB-35 Manual Integration: NO

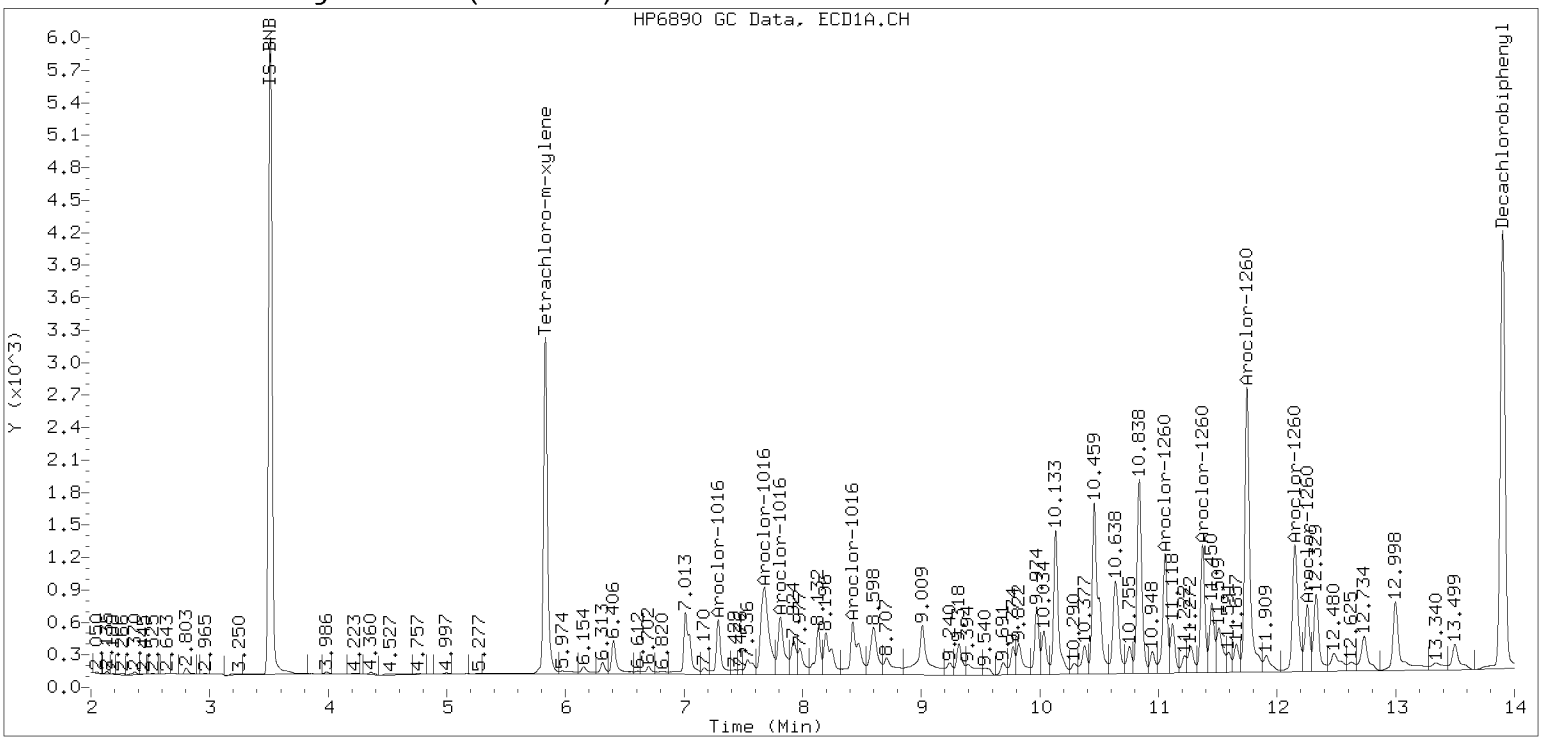
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042339ECD7.D Injection Date: 04-JAN-2023 22:44

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042350ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV5	Injection Time:	02:37
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	273	0.0576965	0.0633897		9.1	+/-20
Aroclor-1254 (1)	A	250.00	249		0.0701529			
Aroclor-1254 (2)	A	250.00	288		0.0315248			
Aroclor-1254 (3)	A	250.00	224		0.0399435			
Aroclor-1254 (4)	A	250.00	295		0.1021929			
Aroclor-1254 (5)	A	250.00	308		0.0731346			
Aroclor 1254 [2C]	A	250.00	234	0.0638047	0.0611668		-6.5	+/-20
Aroclor-1254 (1) [2C]	A	250.00	238		0.0490094			
Aroclor-1254 (2) [2C]	A	250.00	147		0.0244216			
Aroclor-1254 (3) [2C]	A	250.00	215		0.0767307			
Aroclor-1254 (4) [2C]	A	250.00	284		0.1049561			
Aroclor-1254 (5) [2C]	A	250.00	285		0.0507160			
Decachlorobiphenyl	A	40.000	44.0	0.7333327	0.8076397		10.0	+/-20
Tetrachlorometaxylene	A	40.000	37.2	1.1336710	1.0541110		-7.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1528160		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.2	1.0966080	0.9935574		-9.5	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042350ECD7.D
Data file 2: /230104.b/230104.b/01042350ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 05-JAN-2023 02:37
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	181686	5.709	0.002	120443	37.2	36.2	2.6	Tetrachloro-m-xylene
13.902	0.001	267968	14.127	-0.001	223338	44.1	40.6	8.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	344719	-23.0
Hexabromobiphenyl	798898	663583	-16.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	242448	-2.7
Hexabromobiphenyl	362541	387465	6.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	-0.007	75572	249.0	1	9.460	0.000	37132	237.5
Aroclor-1254	2	9.393	-0.009	33960	287.7	2	9.978	0.000	18503	147.2
Aroclor-1254	3	9.685	-0.009	43029	224.5	3	10.129	0.000	58135	215.2
Aroclor-1254	4	9.820	-0.011	110087	294.6	4	10.377	0.000	79520	284.2
Aroclor-1254	5	10.175	-0.014	78784	307.6	5	10.575	0.000	38425	284.8
		Total Col1Ave (5 peaks):		272.7			Total Col2Ave (5 peaks):		233.8	RPD = 15
		Corrected Ave (4 peaks):		263.9			Corrected Ave (4 peaks):		221.1	RPD = 18
			CalAmt %D:	9.1				CalAmt %D:	-6.5	

Total PCB Area Col1 (5.930 - 13.802) = 1160457 Col1 Total PCB = 0.4 ppm*

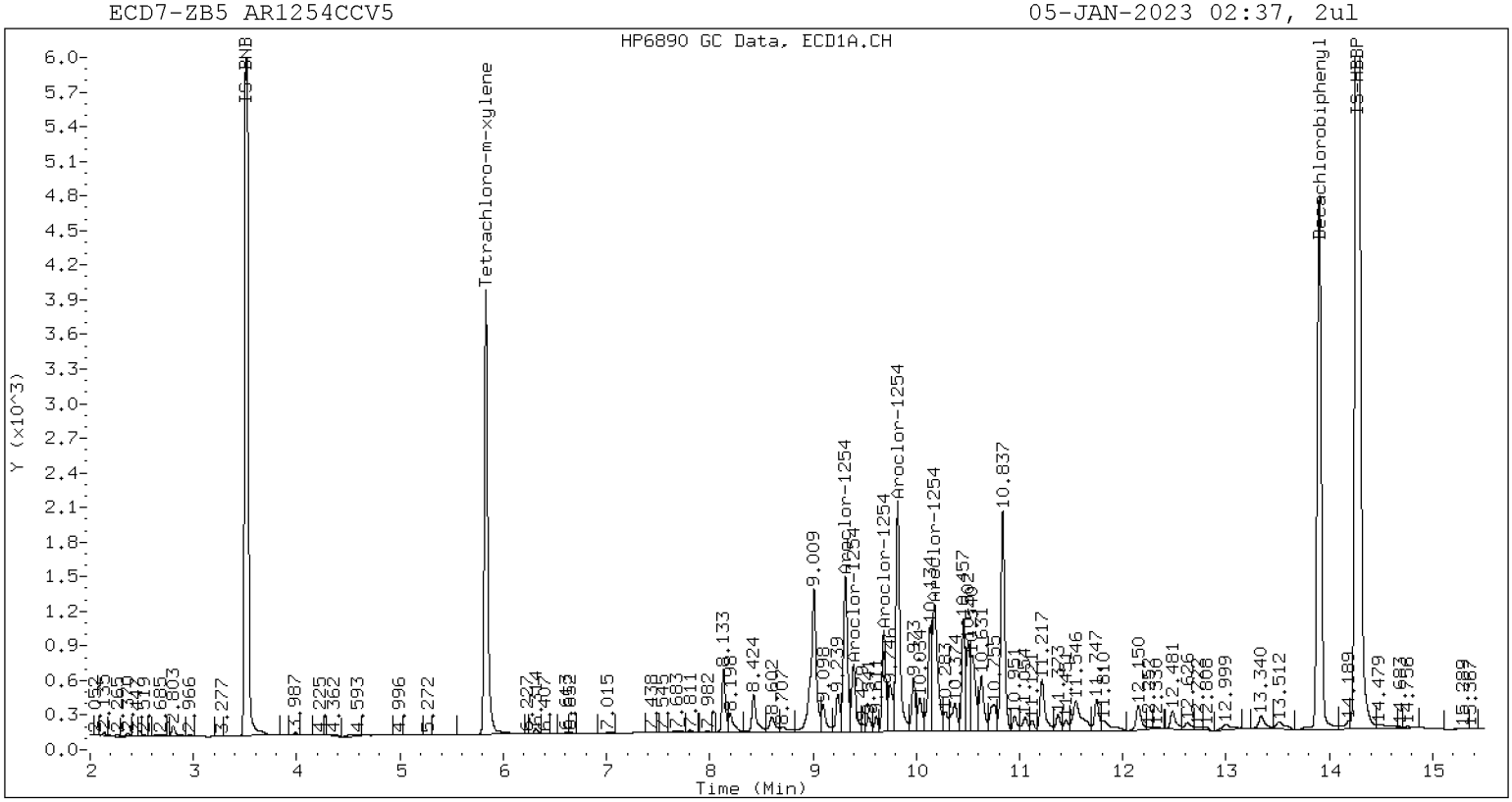
Total PCB Area Col2 (5.807 - 14.028) = 682418 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

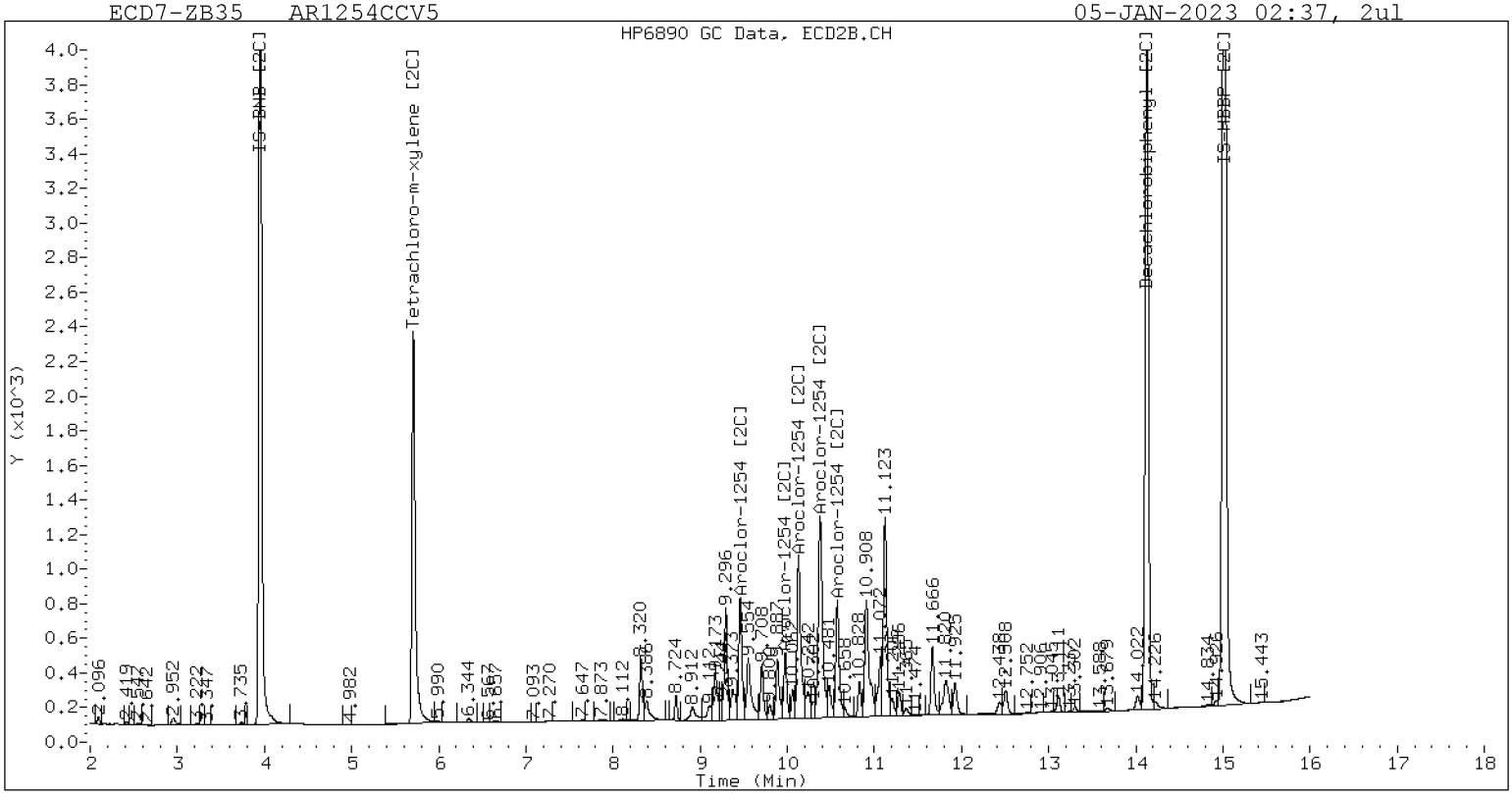
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 05-JAN-2023 02:37, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 05-JAN-2023 02:37, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042351ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV6	Injection Time:	02:58
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	324	0.0441939	0.0547664		29.5	+/-20 *
Aroclor-1016 (1)	A	250.00	328	0.0266860	0.0349943		31.2	
Aroclor-1016 (2)	A	250.00	286	0.0861572	0.0986699		14.4	
Aroclor-1016 (3)	A	250.00	309	0.0390425	0.0483159		23.6	
Aroclor-1016 (4)	A	250.00	372	0.0248899	0.0370854		48.8	
Aroclor 1016 [2C]	A	250.00	239	0.0467310	0.0418219		-4.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0407410		-0.4	
Aroclor-1016 (2) [2C]	A	250.00	192	0.0882154	0.0679595		-23.2	
Aroclor-1016 (3) [2C]	A	250.00	245	0.0378846	0.0371419		-2.0	
Aroclor-1016 (4) [2C]	A	250.00	269	0.0199212	0.0214453		7.6	
Aroclor 1260	A	250.00	285	0.0390342	0.0441122		13.9	+/-20
Aroclor-1260 (1)	A	250.00	282	0.0291201	0.0328010		12.8	
Aroclor-1260 (2)	A	250.00	281	0.0301181	0.0338116		12.4	
Aroclor-1260 (3)	A	250.00	283	0.0791351	0.0895972		13.2	
Aroclor-1260 (4)	A	250.00	276	0.0403003	0.0444348		10.4	
Aroclor-1260 (5)	A	250.00	302	0.0164974	0.0199163		20.8	
Aroclor 1260 [2C]	A	250.00	206	0.0617619	0.0465679		-17.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	237	0.0422283	0.0400454		-5.2	
Aroclor-1260 (2) [2C]	A	250.00	160	0.1059643	0.0677146		-36.0	
Aroclor-1260 (3) [2C]	A	250.00	250	0.0282173	0.0282570		0.0	
Aroclor-1260 (4) [2C]	A	250.00	178	0.0706376	0.0502547		-28.8	
Decachlorobiphenyl	A	40.000	46.5	0.7333327	0.8527579		16.3	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1726440		3.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1508850		1.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.5	1.0966080	1.1103650		1.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042351ECD7.D
Data file 2: /230104.b/230104.b/01042351ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 05-JAN-2023 02:58
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	155672	5.707	-0.000	101242	41.4	40.5	2.1	Tetrachloro-m-xylene
13.902	0.001	256539	14.127	-0.000	185777	46.5	40.5	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	265506	-40.7
Hexabromobiphenyl	798898	601669	-24.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	182358	-26.8
Hexabromobiphenyl	362541	322842	-11.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	29035	327.8	1	7.270	0.001	23217	249.0
Aroclor-1016	2	7.676	-0.001	81867	286.3	2	7.871	-0.000	38728	192.6
Aroclor-1016	3	7.811	-0.001	40088	309.4	3	8.069	0.000	21166	245.1
Aroclor-1016	4	8.422	0.001	30770	372.5	4	8.240	0.000	12221	269.1
Total Col1Ave (4 peaks):					324.0	Total Col2Ave (4 peaks):				239.0 RPD = 30
Corrected Ave (3 peaks):					307.8	Corrected Ave (3 peaks):				228.9 RPD = 29
CalAmt %D:					29.6	CalAmt %D:				-4.4
Aroclor-1260	1	11.054	-0.001	61673	281.6	1	11.661	0.001	40401	237.1
Aroclor-1260	2	11.372	-0.000	63573	280.7	2	11.924	0.001	68316	159.8
Aroclor-1260	3	11.745	-0.001	168462	283.1	3	12.443	0.000	28508	250.4
Aroclor-1260	4	12.150	-0.000	83547	275.6	4	12.507	0.001	50701	177.9
Aroclor-1260	5	12.255	-0.000	37447	301.8	NS	---			----
Total Col1Ave (5 peaks):					284.6	Total Col2Ave (4 peaks):				206.3 RPD = 32
Corrected Ave (4 peaks):					280.2	Corrected Ave (3 peaks):				191.6 RPD = 38
CalAmt %D:					13.8	CalAmt %D:				-17.5

Total PCB Area Col1 (5.930 - 13.802) = 1867352 Col1 Total PCB = 0.7 ppm*

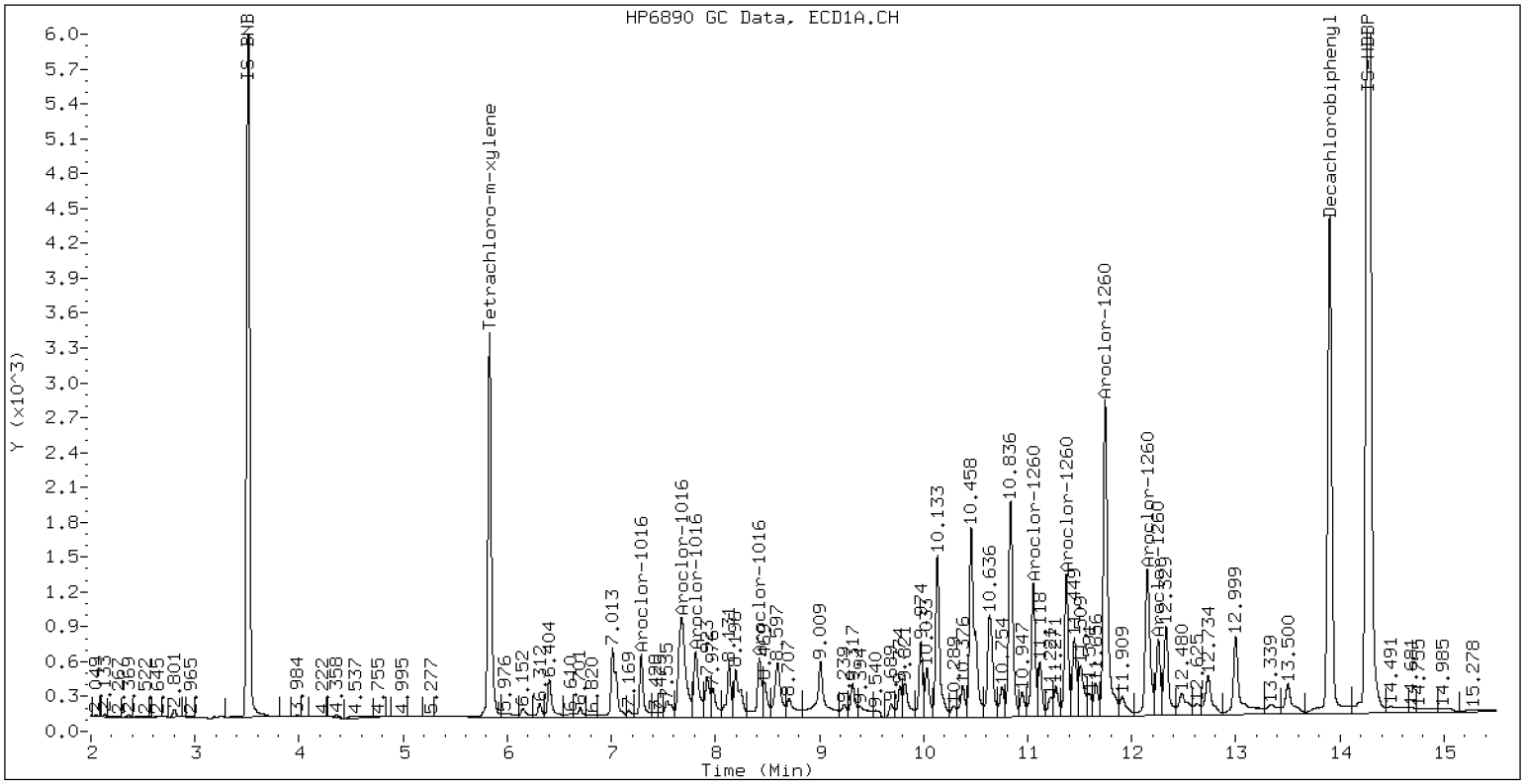
Total PCB Area Col2 (5.807 - 14.028) = 853528 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

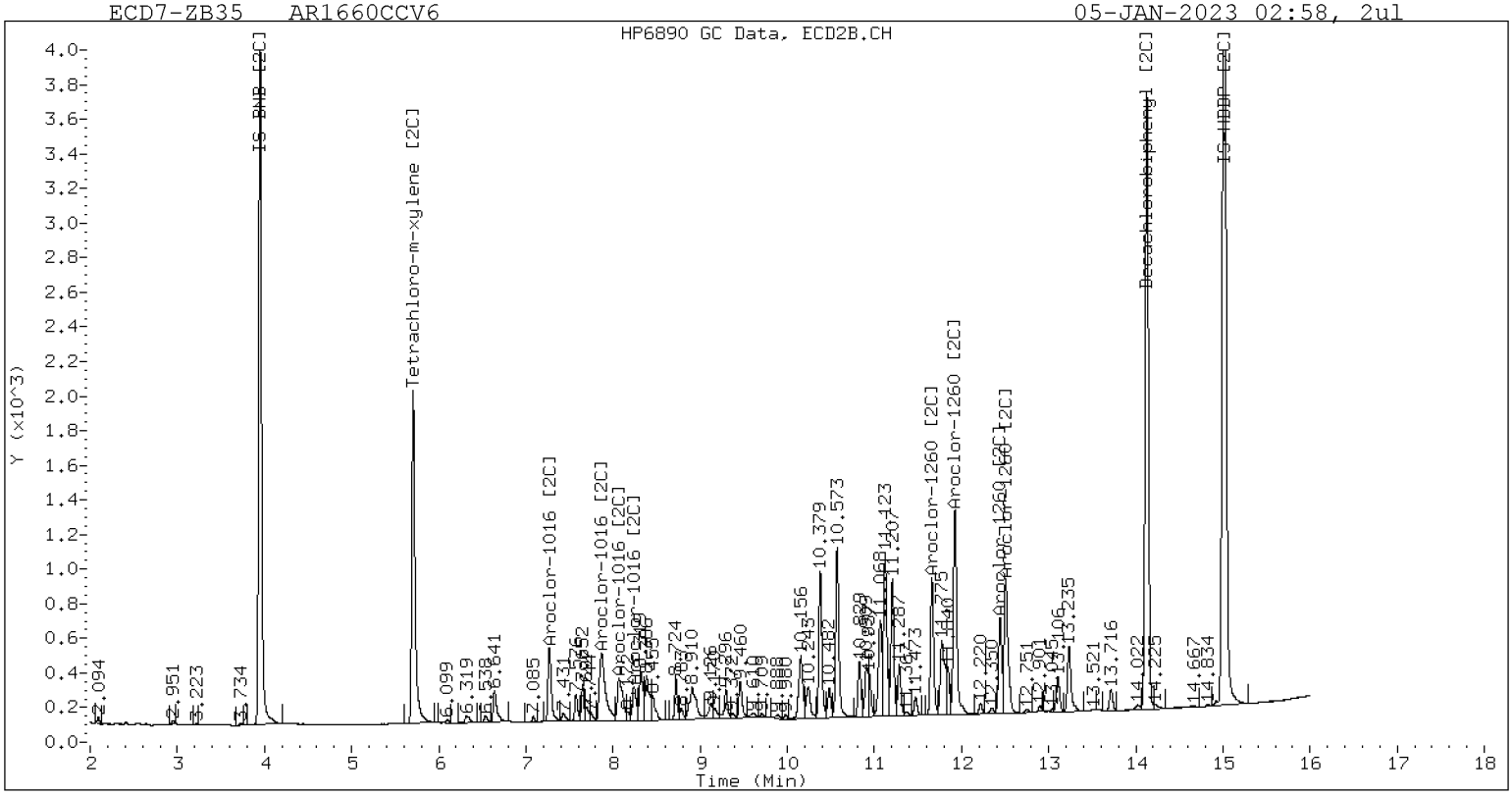
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 05-JAN-2023 02:58, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 05-JAN-2023 02:58, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042357ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV7	Injection Time:	05:05
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	256	0.0490062	0.0515230		2.5	+/-20
Aroclor-1248 (1)	A	250.00	283		0.0389286			
Aroclor-1248 (2)	A	250.00	298		0.0522926			
Aroclor-1248 (3)	A	250.00	287		0.0905998			
Aroclor-1248 (4)	A	250.00	157		0.0242710			
Aroclor 1248 [2C]	A	250.00	247	0.0394876	0.0394734		-1.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	259		0.0338655			
Aroclor-1248 (2) [2C]	A	250.00	185		0.0254943			
Aroclor-1248 (3) [2C]	A	250.00	273		0.0456954			
Aroclor-1248 (4) [2C]	A	250.00	269		0.0528382			
Decachlorobiphenyl	A	40.000	42.3	0.7333327	0.7757391		5.8	+/-20
Tetrachlorometaxylene	A	40.000	36.8	1.1336710	1.0421740		-8.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.6	1.1358180	1.1254170		-1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0315620		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042357ECD7.D
Data file 2: /230104.b/230104.b/01042357ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 05-JAN-2023 05:05
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	0.002	191041	5.708	0.001	131273	36.8	37.6	2.3	Tetrachloro-m-xylene
13.904	0.002	285216	14.128	0.000	240676	42.3	39.6	6.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	366620	-18.1
Hexabromobiphenyl	798898	735340	-8.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	254513	2.2
Hexabromobiphenyl	362541	427710	18.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.005	44600	282.9	1	8.320	0.000	26935	259.1
Aroclor-1248	2	8.598	-0.006	59911	297.7	2	8.725	0.000	20277	185.4
Aroclor-1248	3	9.017	-0.005	103799	286.7	3	9.171	0.000	36344	273.2
Aroclor-1248	4	9.309	-0.002	27807	156.8	4	9.592	0.000	42025	269.1
Total Col1Ave (4 peaks):					256.0	Total Col2Ave (4 peaks):				246.7 RPD = 4
Corrected Ave (3 peaks):					242.1	Corrected Ave (3 peaks):				237.9 RPD = 2
CalAmt %D:					2.4	CalAmt %D:				-1.3

Total PCB Area Col1 (5.930 - 13.802) = 959811 Col1 Total PCB = 0.3 ppm*

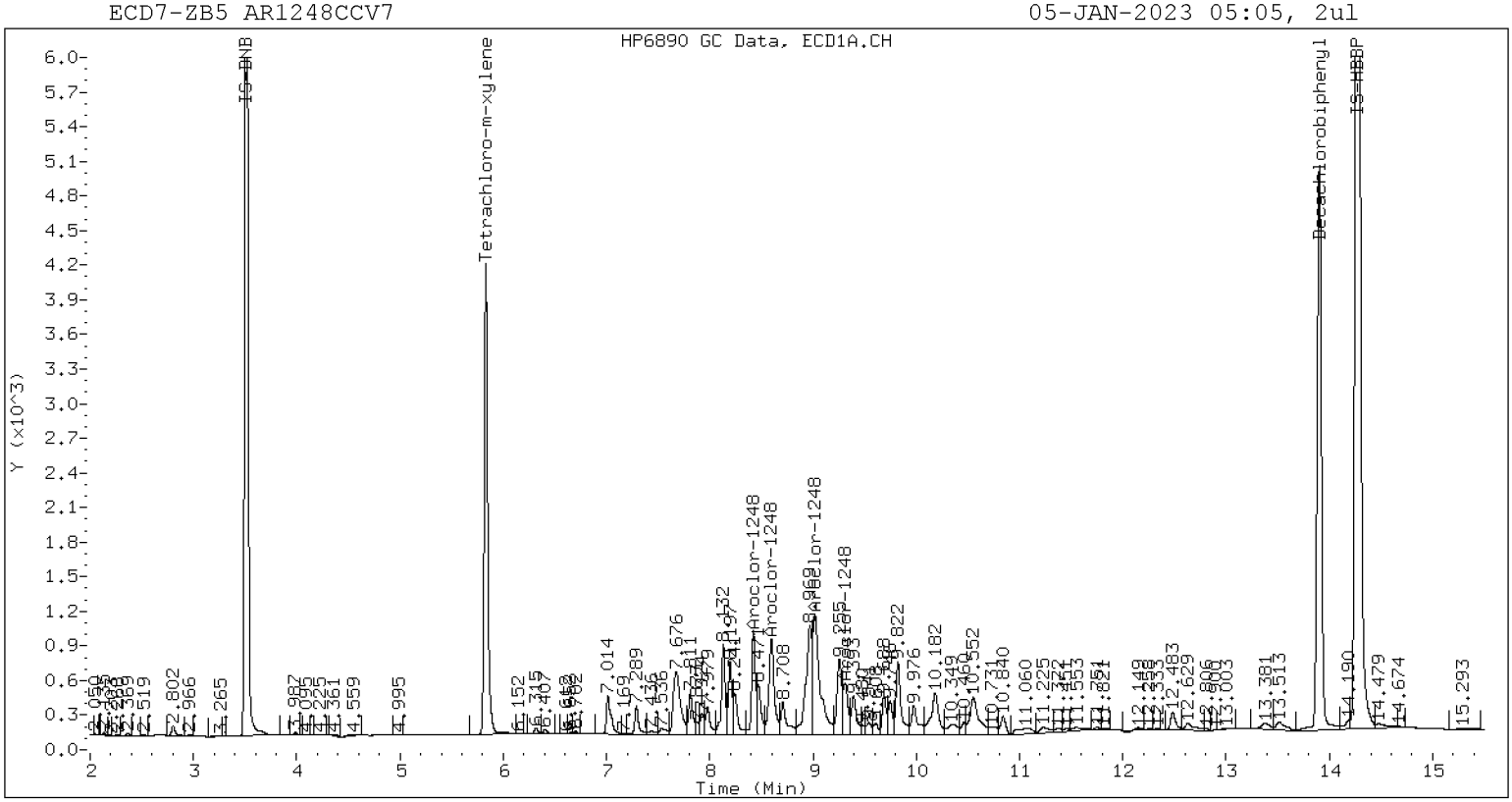
Total PCB Area Col2 (5.807 - 14.028) = 517445 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

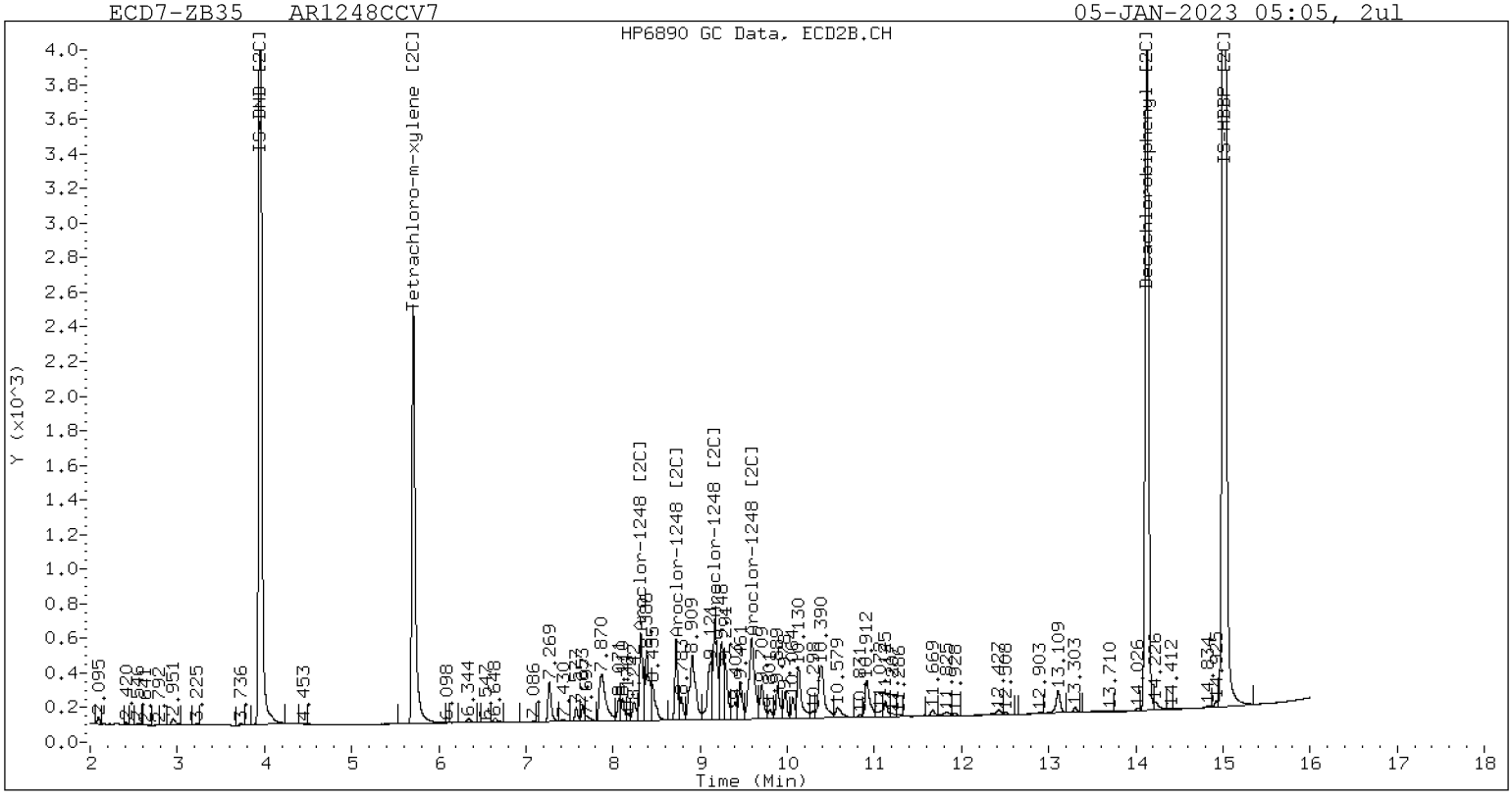
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 05-JAN-2023 05:05, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 05-JAN-2023 05:05, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042358ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV8	Injection Time:	05:26
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	258	0.0441939	0.0454959		3.2	+/-20
Aroclor-1016 (1)	A	250.00	253	0.0266860	0.0270200		1.2	
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0879156		2.0	
Aroclor-1016 (3)	A	250.00	264	0.0390425	0.0411843		5.6	
Aroclor-1016 (4)	A	250.00	260	0.0248899	0.0258636		4.0	
Aroclor 1016 [2C]	A	250.00	235	0.0467310	0.0411014		-6.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399275		-2.4	
Aroclor-1016 (2) [2C]	A	250.00	189	0.0882154	0.0668081		-24.4	
Aroclor-1016 (3) [2C]	A	250.00	241	0.0378846	0.0365155		-3.6	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0211544		6.0	
Aroclor 1260	A	250.00	268	0.0390342	0.0416045		7.0	+/-20
Aroclor-1260 (1)	A	250.00	270	0.0291201	0.0314806		8.0	
Aroclor-1260 (2)	A	250.00	269	0.0301181	0.0323912		7.6	
Aroclor-1260 (3)	A	250.00	268	0.0791351	0.0848811		7.2	
Aroclor-1260 (4)	A	250.00	255	0.0403003	0.0410852		2.0	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0181846		10.4	
Aroclor 1260 [2C]	A	250.00	203	0.0617619	0.0458389		-18.7	+/-20
Aroclor-1260 (1) [2C]	A	250.00	233	0.0422283	0.0393410		-6.8	
Aroclor-1260 (2) [2C]	A	250.00	157	0.1059643	0.0665001		-37.2	
Aroclor-1260 (3) [2C]	A	250.00	248	0.0282173	0.0279628		-0.8	
Aroclor-1260 (4) [2C]	A	250.00	175	0.0706376	0.0495519		-30.0	
Decachlorobiphenyl	A	40.000	44.4	0.7333327	0.8139314		11.0	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1045020		-2.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.4	1.1358180	1.1474800		1.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	39.9	1.0966080	1.0938410		-0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042358ECD7.D
Data file 2: /230104.b/230104.b/01042358ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 05-JAN-2023 05:26
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	147472	5.707	0.000	98997	39.0	39.9	2.4	Tetrachloro-m-xylene
13.904	0.003	260292	14.128	0.001	191904	44.4	40.4	9.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	267038	-40.3
Hexabromobiphenyl	798898	639592	-19.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	181008	-27.3
Hexabromobiphenyl	362541	334479	-7.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.000	22548	253.1	1	7.270	0.000	22585	244.0
Aroclor-1016	2	7.677	0.000	73365	255.1	2	7.871	-0.000	37790	189.3
Aroclor-1016	3	7.811	-0.001	34368	263.7	3	8.070	0.001	20655	241.0
Aroclor-1016	4	8.422	0.001	21583	259.8	4	8.241	0.001	11966	265.5
Total Col1Ave (4 peaks):					257.9	Total Col2Ave (4 peaks):				235.0 RPD = 9
Corrected Ave (3 peaks):					256.0	Corrected Ave (3 peaks):				224.8 RPD = 13
CalAmt %D:					3.2	CalAmt %D:				-6.0
Aroclor-1260	1	11.055	-0.001	62921	270.3	1	11.662	0.002	41121	232.9
Aroclor-1260	2	11.372	-0.000	64741	268.9	2	11.924	0.001	69509	156.9
Aroclor-1260	3	11.746	0.000	169654	268.2	3	12.443	0.001	29228	247.7
Aroclor-1260	4	12.149	-0.001	82118	254.9	4	12.507	0.001	51794	175.4
Aroclor-1260	5	12.255	0.000	36346	275.6	NS	---			----
Total Col1Ave (5 peaks):					267.5	Total Col2Ave (4 peaks):				203.2 RPD = 27
Corrected Ave (4 peaks):					265.5	Corrected Ave (3 peaks):				188.4 RPD = 34
CalAmt %D:					7.0	CalAmt %D:				-18.7

Total PCB Area Col1 (5.930 - 13.802) = 1686890 Col1 Total PCB = 0.7 ppm*

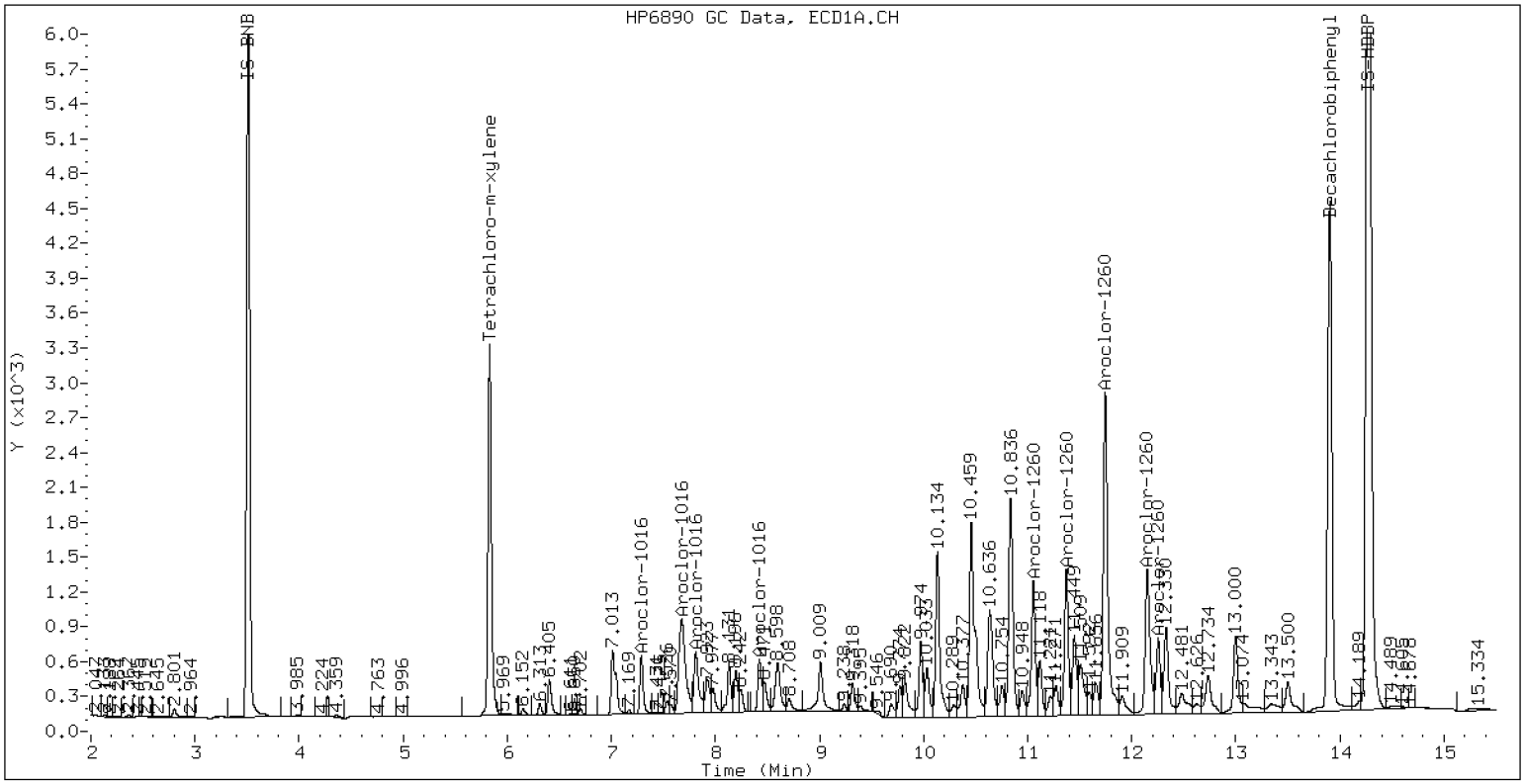
Total PCB Area Col2 (5.807 - 14.028) = 868887 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

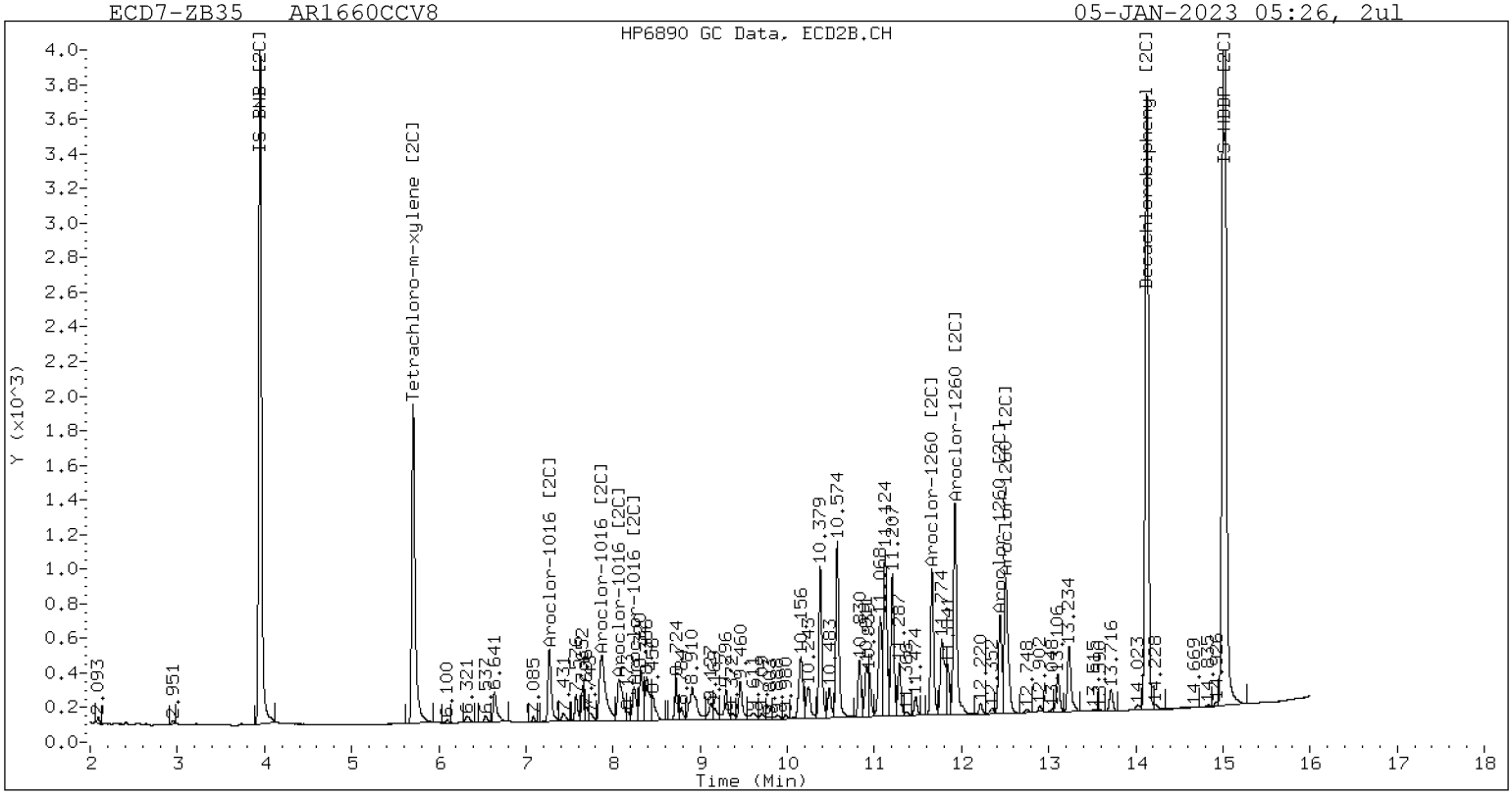
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 05-JAN-2023 05:26, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 05-JAN-2023 05:26, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042375ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCV9	Injection Time:	11:25
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	275	0.0396000	0.0422279		9.8	+/-20
Aroclor-1242 (1)	A	250.00	272		0.0246361			
Aroclor-1242 (2)	A	250.00	271		0.0780489			
Aroclor-1242 (3)	A	250.00	329		0.0272544			
Aroclor-1242 (4)	A	250.00	226		0.0389721			
Aroclor 1242 [2C]	A	250.00	258	0.0391981	0.0374890		3.3	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0348632			
Aroclor-1242 (2) [2C]	A	250.00	193		0.0554639			
Aroclor-1242 (3) [2C]	A	250.00	288		0.0266897			
Aroclor-1242 (4) [2C]	A	250.00	295		0.0329393			
Decachlorobiphenyl	A	40.000	43.2	0.7333327	0.7927384		8.0	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0560300		-6.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1648310		2.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.8	1.0966080	1.0100830		-8.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042375ECD7.D
Data file 2: /230104.b/230104.b/01042375ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 05-JAN-2023 11:25
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	0.000	177592	5.706	-0.001	120712	37.3	36.8	1.1	Tetrachloro-m-xylene
13.902	0.000	199887	14.127	-0.000	190953	43.2	41.0	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	336339	-24.9
Hexabromobiphenyl	798898	504295	-36.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	239014	-4.0
Hexabromobiphenyl	362541	327864	-9.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.288	0.000	25894	271.6	1	7.269	0.000	26040	257.4
Aroclor-1242	2	7.675	0.000	82034	271.0	2	7.868	0.000	41427	192.9
Aroclor-1242	3	8.421	0.000	28646	328.9	3	9.167	0.000	19935	287.7
Aroclor-1242	4	9.020	0.000	40962	226.5	4	9.588	0.000	24603	295.5
Total Col1Ave (4 peaks):					274.5	Total Col2Ave (4 peaks):				258.4 RPD = 6
Corrected Ave (3 peaks):					256.4	Corrected Ave (3 peaks):				246.0 RPD = 4
CalAmt %D:					9.8	CalAmt %D:				3.4

Total PCB Area Col1 (5.930 - 13.802) = 827852 Col1 Total PCB = 0.3 ppm*

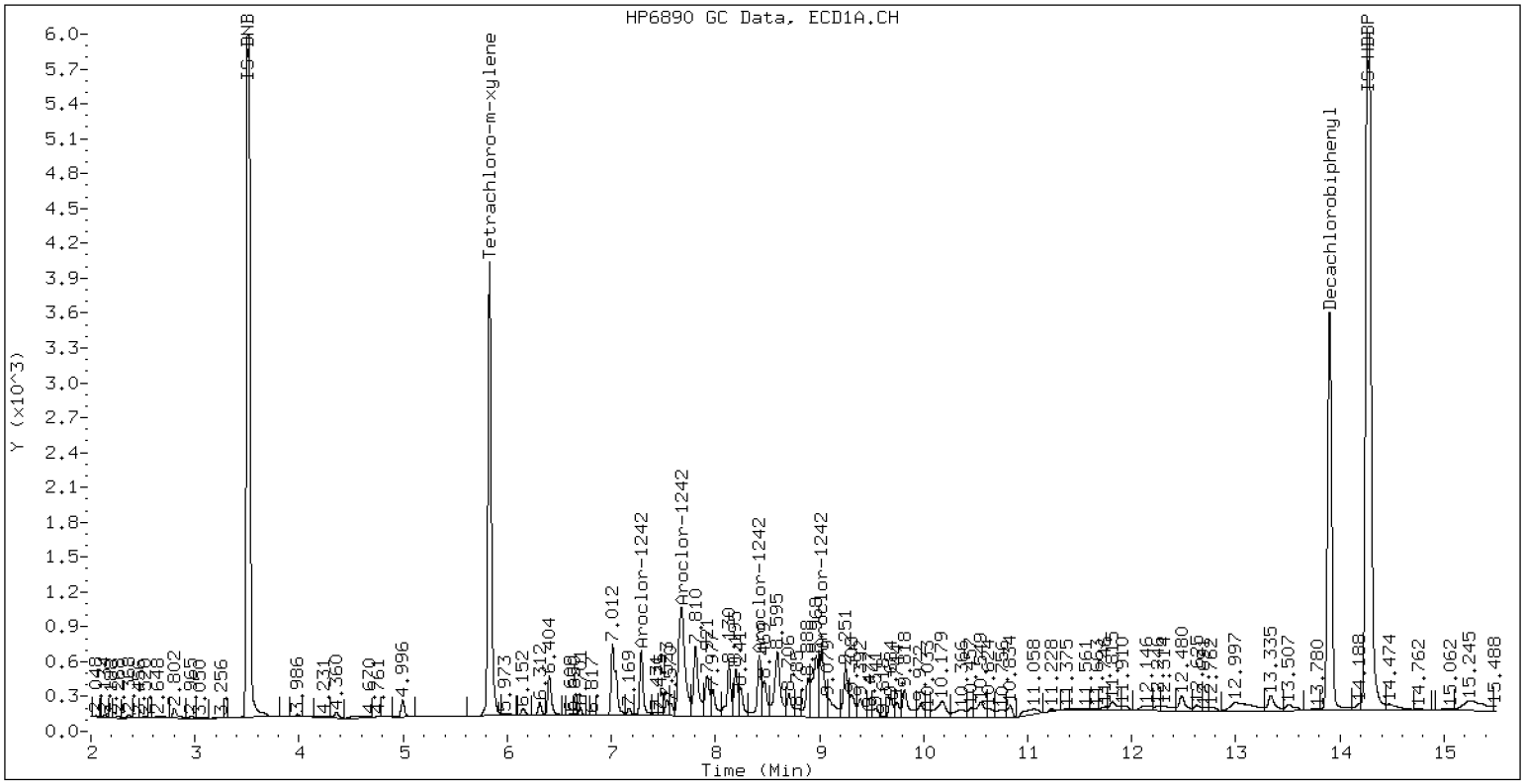
Total PCB Area Col2 (5.807 - 14.028) = 436809 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

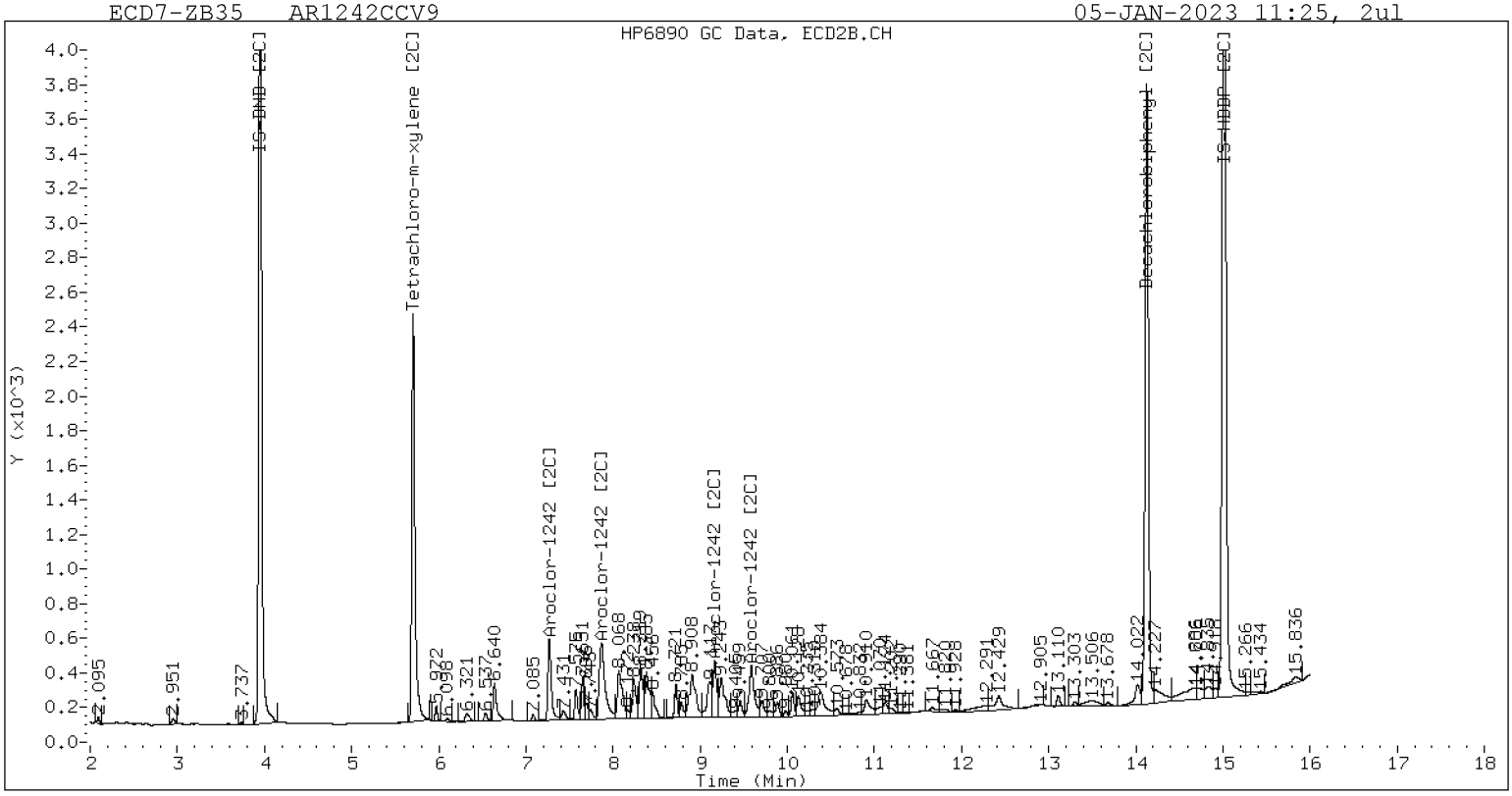
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 05-JAN-2023 11:25, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV9 05-JAN-2023 11:25, 2ul

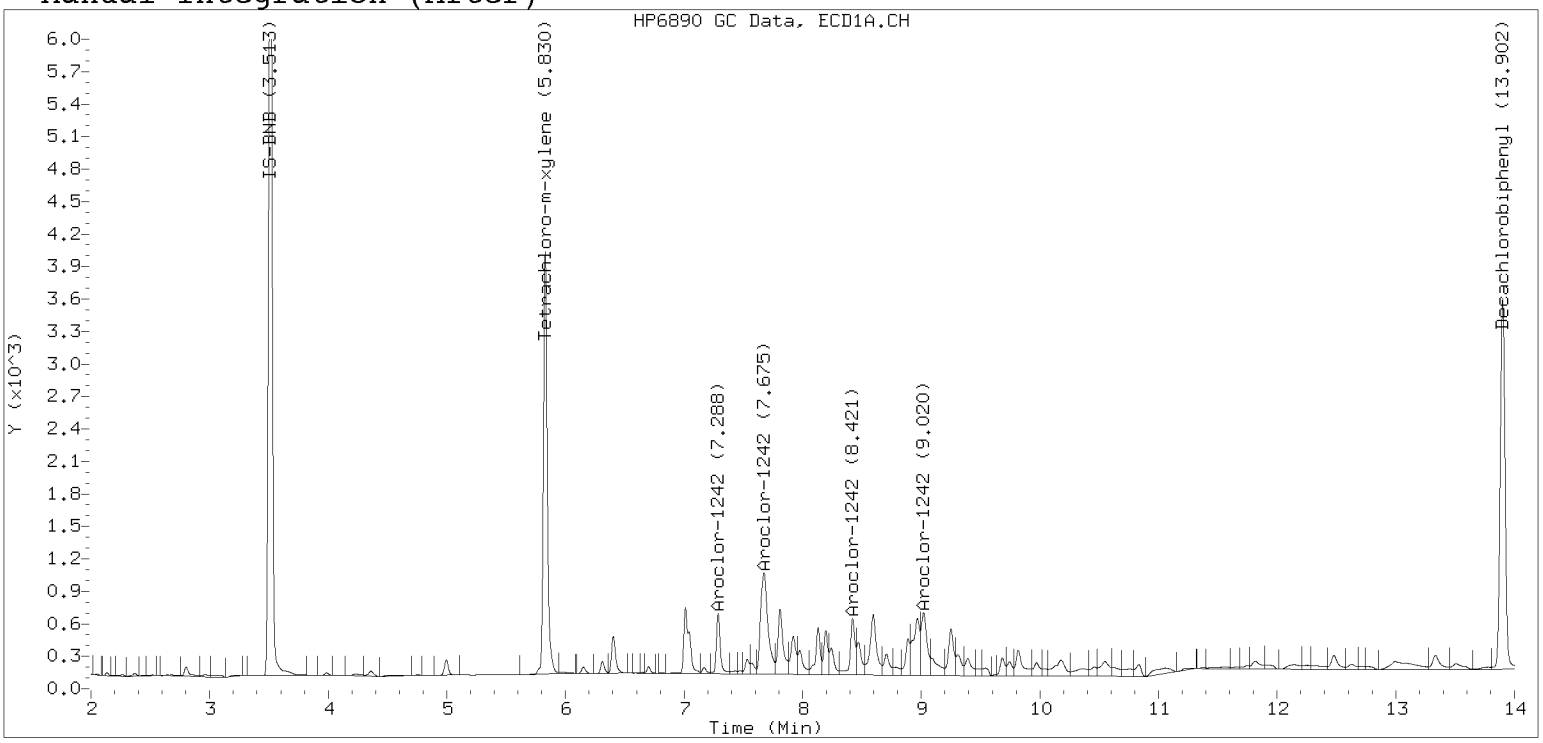


ZB-35 Manual Integration: NO

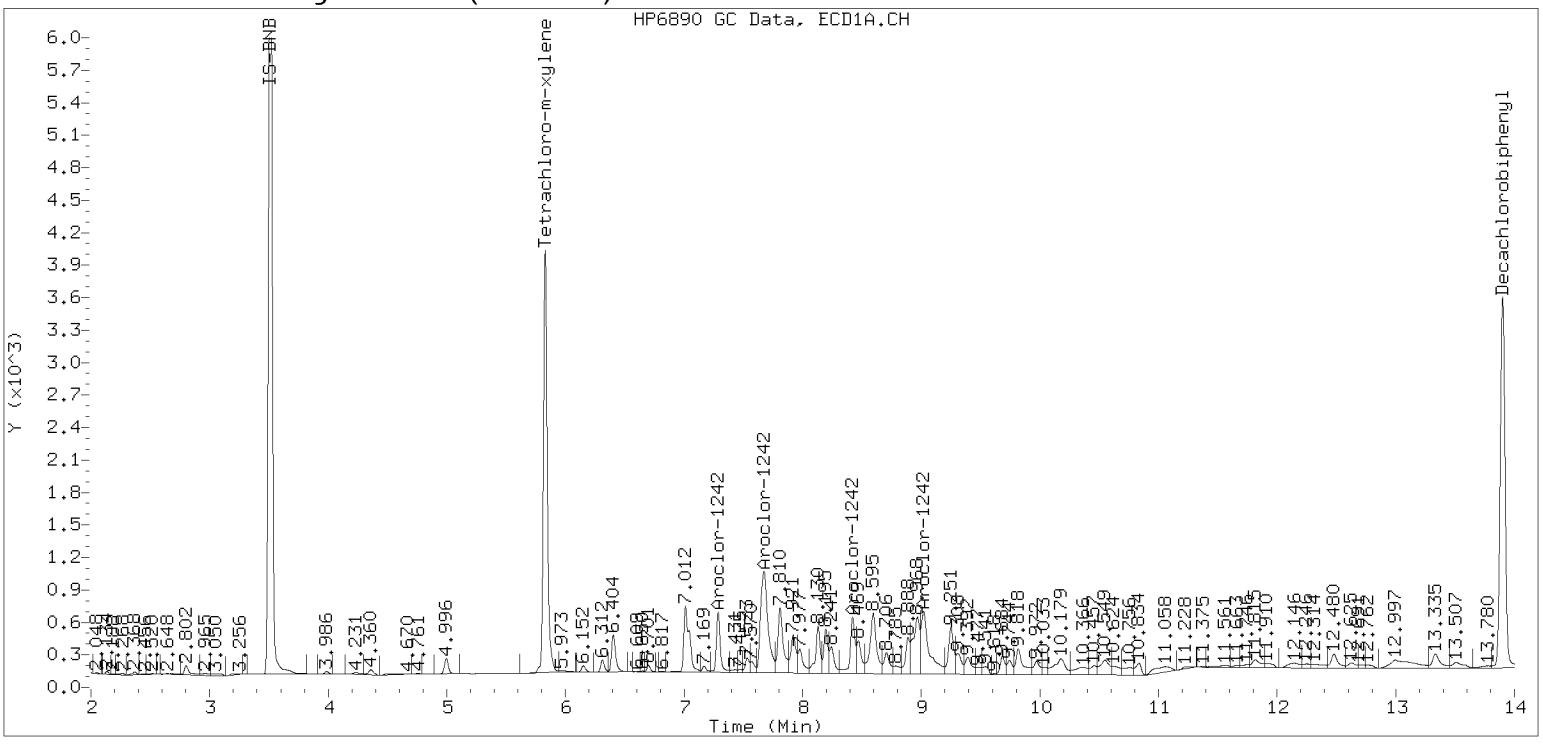
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230104.b/01042375ECD7.D Injection Date: 05-JAN-2023 11:25

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01042376ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0094	Injection Date:	01/05/23
Lab Sample ID:	SLA0094-CCVA	Injection Time:	11:46
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	269	0.0441939	0.0471532		7.4	+/-20	
Aroclor-1016 (1)	A	250.00	261	0.0266860	0.0278493		4.4		
Aroclor-1016 (2)	A	250.00	262	0.0861572	0.0904467		4.8		
Aroclor-1016 (3)	A	250.00	273	0.0390425	0.0425839		9.2		
Aroclor-1016 (4)	A	250.00	278	0.0248899	0.0277328		11.2		
Aroclor 1016 [2C]	A	250.00	239	0.0467310	0.0417252		-4.4	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	248	0.0409030	0.0406054		-0.8		
Aroclor-1016 (2) [2C]	A	250.00	191	0.0882154	0.0675376		-23.6		
Aroclor-1016 (3) [2C]	A	250.00	245	0.0378846	0.0371193		-2.0		
Aroclor-1016 (4) [2C]	A	250.00	272	0.0199212	0.0216387		8.8		
Aroclor 1260	A	250.00	332	0.0390342	0.0517066		32.8	+/-20	*
Aroclor-1260 (1)	A	250.00	335	0.0291201	0.0389917		34.0		
Aroclor-1260 (2)	A	250.00	334	0.0301181	0.0401856		33.6		
Aroclor-1260 (3)	A	250.00	334	0.0791351	0.1058134		33.6		
Aroclor-1260 (4)	A	250.00	316	0.0403003	0.0510249		26.4		
Aroclor-1260 (5)	A	250.00	341	0.0164974	0.0225172		36.4		
Aroclor 1260 [2C]	A	250.00	224	0.0617619	0.0508765		-10.3	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	260	0.0422283	0.0439222		4.0		
Aroclor-1260 (2) [2C]	A	250.00	176	0.1059643	0.0747031		-29.6		
Aroclor-1260 (3) [2C]	A	250.00	268	0.0282173	0.0302752		7.2		
Aroclor-1260 (4) [2C]	A	250.00	193	0.0706376	0.0546054		-22.8		
Decachlorobiphenyl	A	40.000	48.3	0.7333327	0.8854365		20.8	+/-20	
Tetrachlorometaxylene	A	40.000	39.8	1.1336710	1.1294420		-0.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	42.1	1.1358180	1.1955350		5.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1075820		1.0	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230104.b/01042376ECD7.D
Data file 2: /230104.b/230104.b/01042376ECD7.D
Method: \\target\share\chem4\ecd7.i\230104.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 05-JAN-2023 11:46
Report Date: 01/09/2023 14:49
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	0.001	147369	5.707	0.000	101871	39.9	40.4	1.4	Tetrachloro-m-xylene
13.902	0.000	203383	14.128	0.000	173233	48.3	42.1	13.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	260959	-41.7
Hexabromobiphenyl	798898	459396	-42.5

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	183952	-26.2
Hexabromobiphenyl	362541	289800	-20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.288	-0.001	22711	260.9	1	7.270	0.000	23342	248.2
Aroclor-1016	2	7.675	-0.002	73759	262.4	2	7.871	0.000	38824	191.4
Aroclor-1016	3	7.811	-0.001	34727	272.7	3	8.069	0.000	21338	244.9
Aroclor-1016	4	8.422	0.001	22616	278.6	4	8.240	0.000	12439	271.6
Total Col1Ave (4 peaks):					268.6	Total Col2Ave (4 peaks):				239.0 RPD = 12
Corrected Ave (3 peaks):					265.3	Corrected Ave (3 peaks):				228.2 RPD = 15
CalAmt %D:					7.5	CalAmt %D:				-4.4
Aroclor-1260	1	11.055	-0.001	55977	334.7	1	11.661	0.000	39777	260.0
Aroclor-1260	2	11.372	-0.000	57691	333.6	2	11.924	0.000	67653	176.2
Aroclor-1260	3	11.746	-0.000	151907	334.3	3	12.442	0.000	27418	268.2
Aroclor-1260	4	12.148	-0.002	73252	316.5	4	12.506	0.000	49452	193.3
Aroclor-1260	5	12.254	-0.000	32326	341.2	NS	---			----
Total Col1Ave (5 peaks):					332.1	Total Col2Ave (4 peaks):				224.4 RPD = 39
Corrected Ave (4 peaks):					329.8	Corrected Ave (3 peaks):				209.8 RPD = 44*
CalAmt %D:					32.8	CalAmt %D:				-10.2

Total PCB Area Col1 (5.930 - 13.802) = 1510324 Col1 Total PCB = 0.6 ppm*

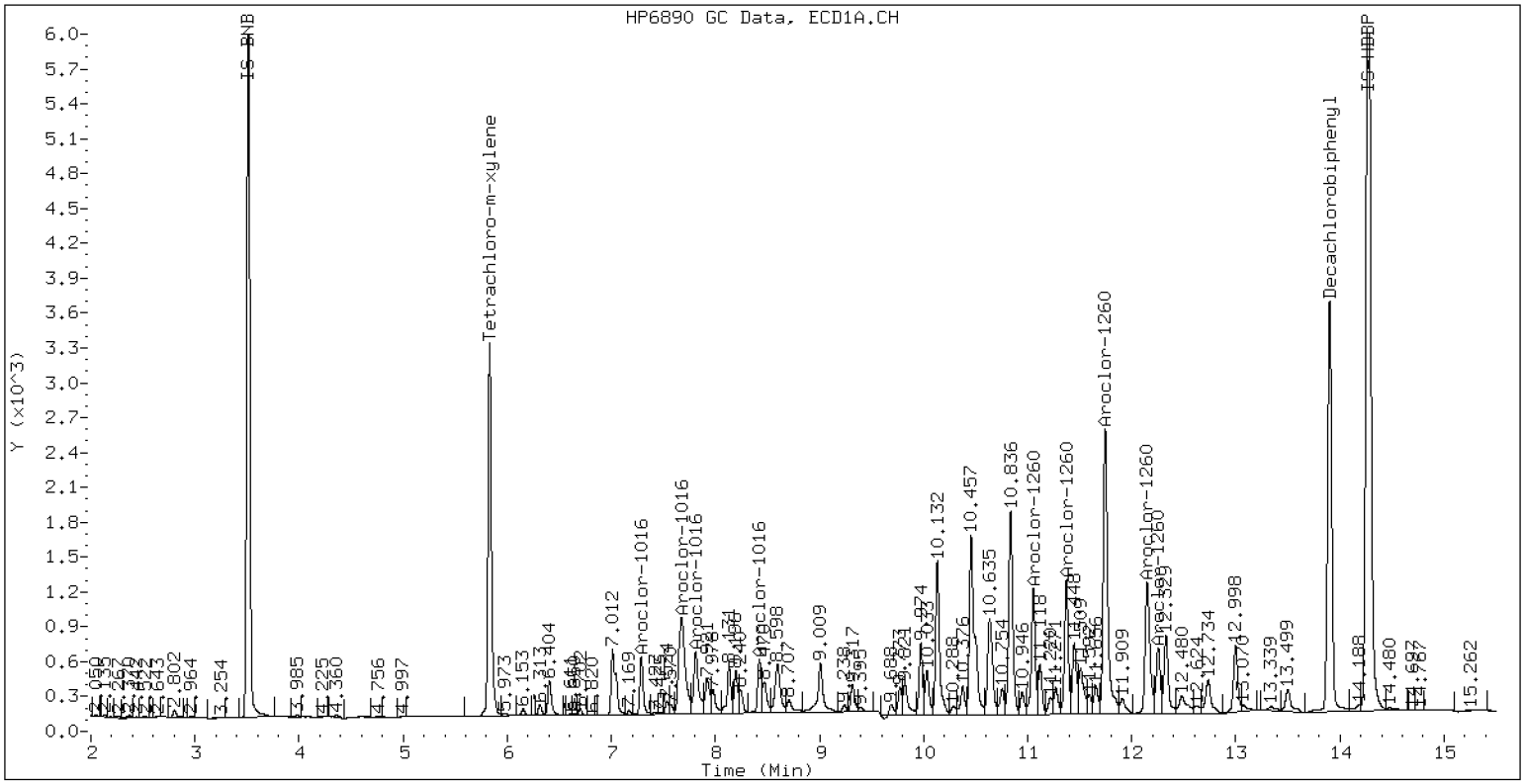
Total PCB Area Col2 (5.807 - 14.028) = 862586 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

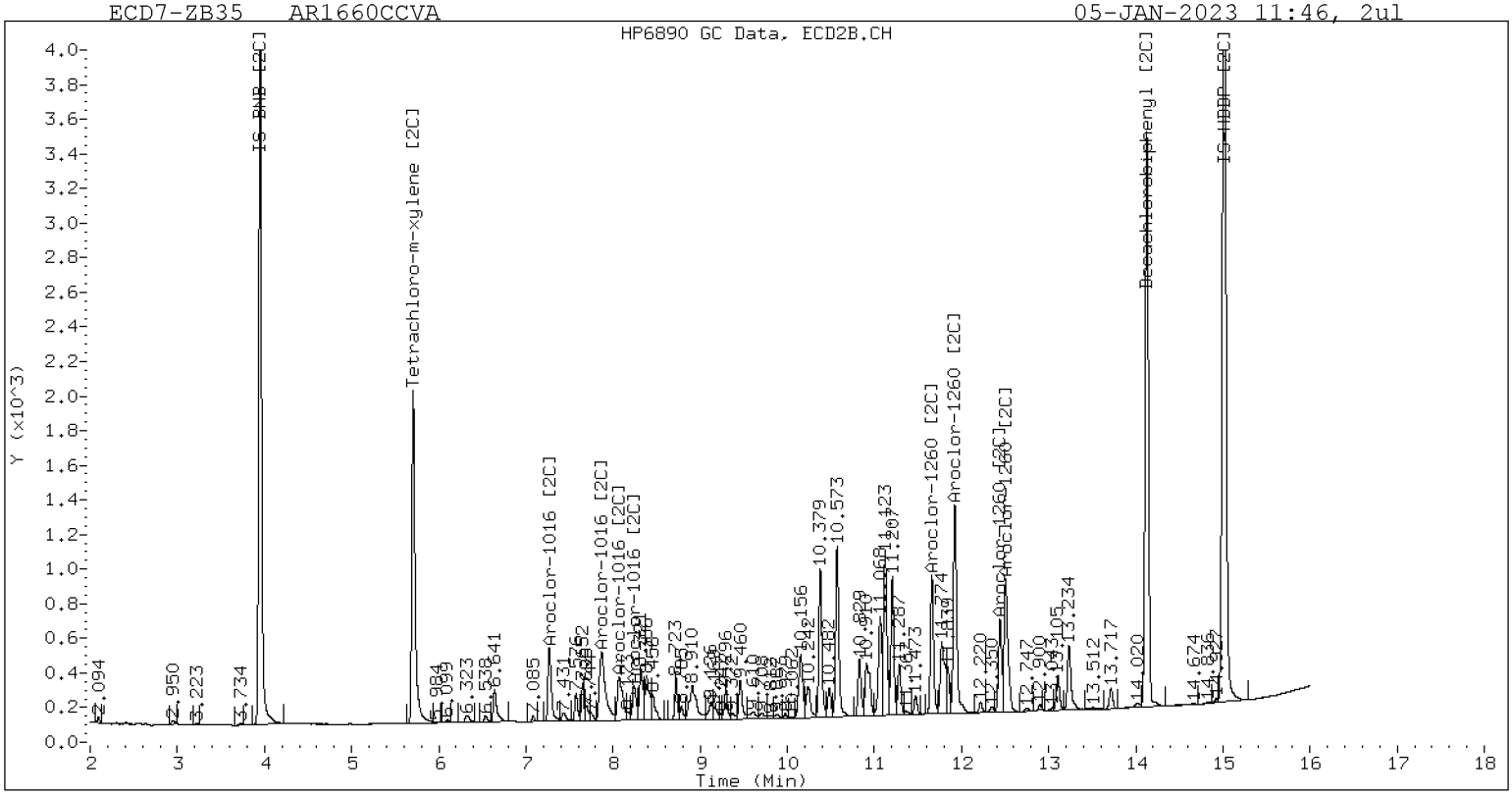
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 05-JAN-2023 11:46, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 05-JAN-2023 11:46, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052331ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/05/23
Lab Sample ID:	SLA0096-CCV3	Injection Time:	22:56
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	291	0.0396000	0.0450782		16.3	+/-20
Aroclor-1242 (1)	A	250.00	275		0.0249733			
Aroclor-1242 (2)	A	250.00	270		0.0778022			
Aroclor-1242 (3)	A	250.00	323		0.0267476			
Aroclor-1242 (4)	A	250.00	295		0.0507896			
Aroclor 1242 [2C]	A	250.00	252	0.0391981	0.0366339		0.6	+/-20
Aroclor-1242 (1) [2C]	A	250.00	250		0.0338878			
Aroclor-1242 (2) [2C]	A	250.00	191		0.0548643			
Aroclor-1242 (3) [2C]	A	250.00	278		0.0258004			
Aroclor-1242 (4) [2C]	A	250.00	287		0.0319832			
Decachlorobiphenyl	A	40.000	43.1	0.7333327	0.7894548		7.8	+/-20
Tetrachlorometaxylene	A	40.000	37.5	1.1336710	1.0635780		-6.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.0	1.1358180	1.1369330		0.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.9	1.0966080	1.0403430		-5.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052331ECD7.D
Data file 2: /230105.b/230105.b/01052331ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV3
Client ID:
Injection Date: 05-JAN-2023 22:56
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	163724	5.707	-0.003	113181	37.5	37.9	1.1	Tetrachloro-m-xylene
13.903	-0.001	171393	14.127	-0.000	167805	43.1	40.0	7.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	307874	-31.2
Hexabromobiphenyl	798898	434206	-45.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	217584	-12.6
Hexabromobiphenyl	362541	295189	-18.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.006	24027	275.3	1	7.271	0.001	23042	250.2
Aroclor-1242	2	7.676	-0.009	74854	270.2	2	7.871	0.000	37305	190.8
Aroclor-1242	3	8.422	-0.007	25734	322.8	3	9.169	-0.003	17543	278.2
Aroclor-1242	4	9.021	-0.010	48865	295.2	4	9.590	-0.002	21747	286.9
Total Col1Ave (4 peaks):					290.9	Total Col2Ave (4 peaks):				251.5 RPD = 15
Corrected Ave (3 peaks):					280.2	Corrected Ave (3 peaks):				239.7 RPD = 16
CalAmt %D:					16.4	CalAmt %D:				0.6

Total PCB Area Col1 (5.933 - 13.804) = 715283 Col1 Total PCB = 0.2 ppm*

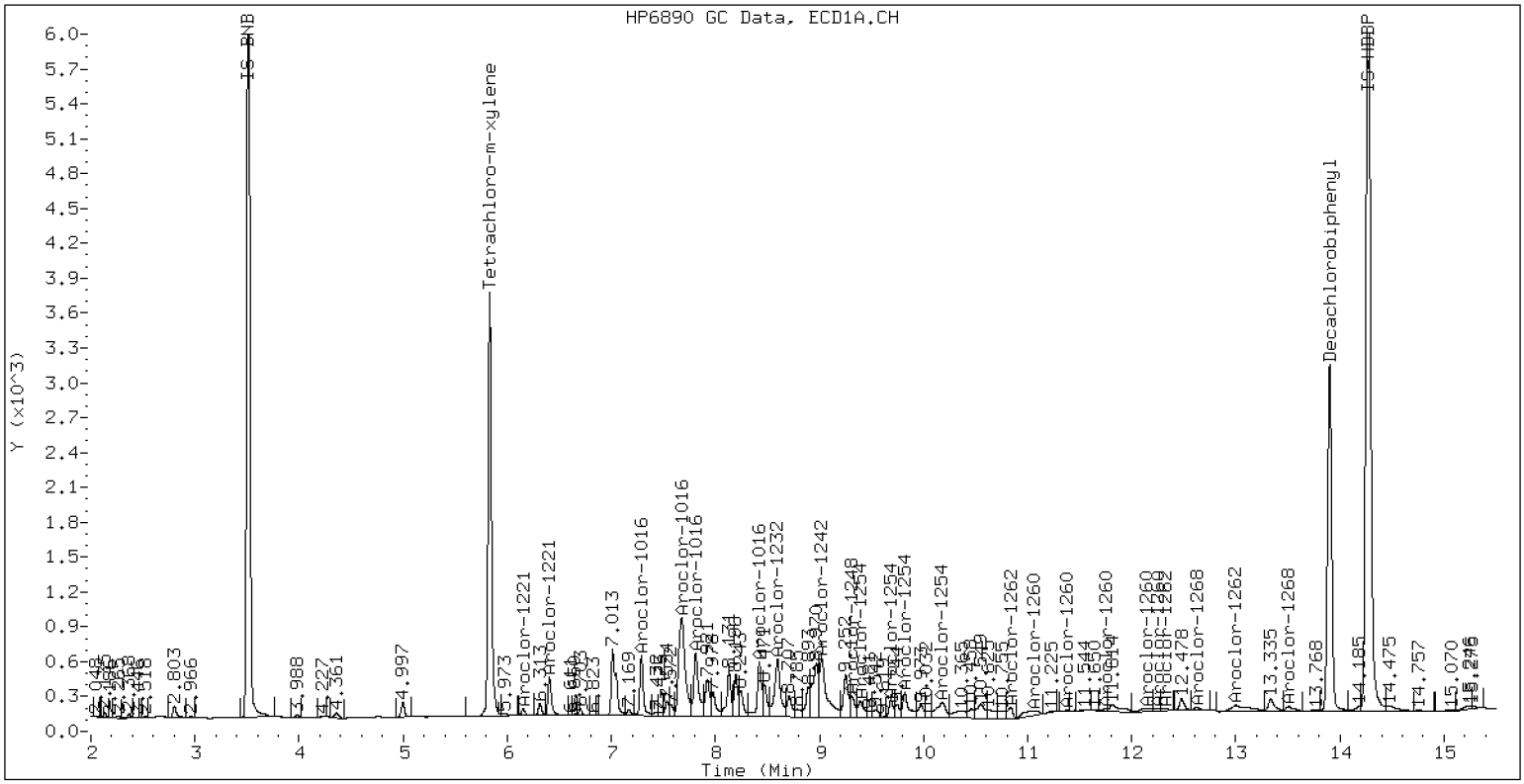
Total PCB Area Col2 (5.810 - 14.028) = 360103 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

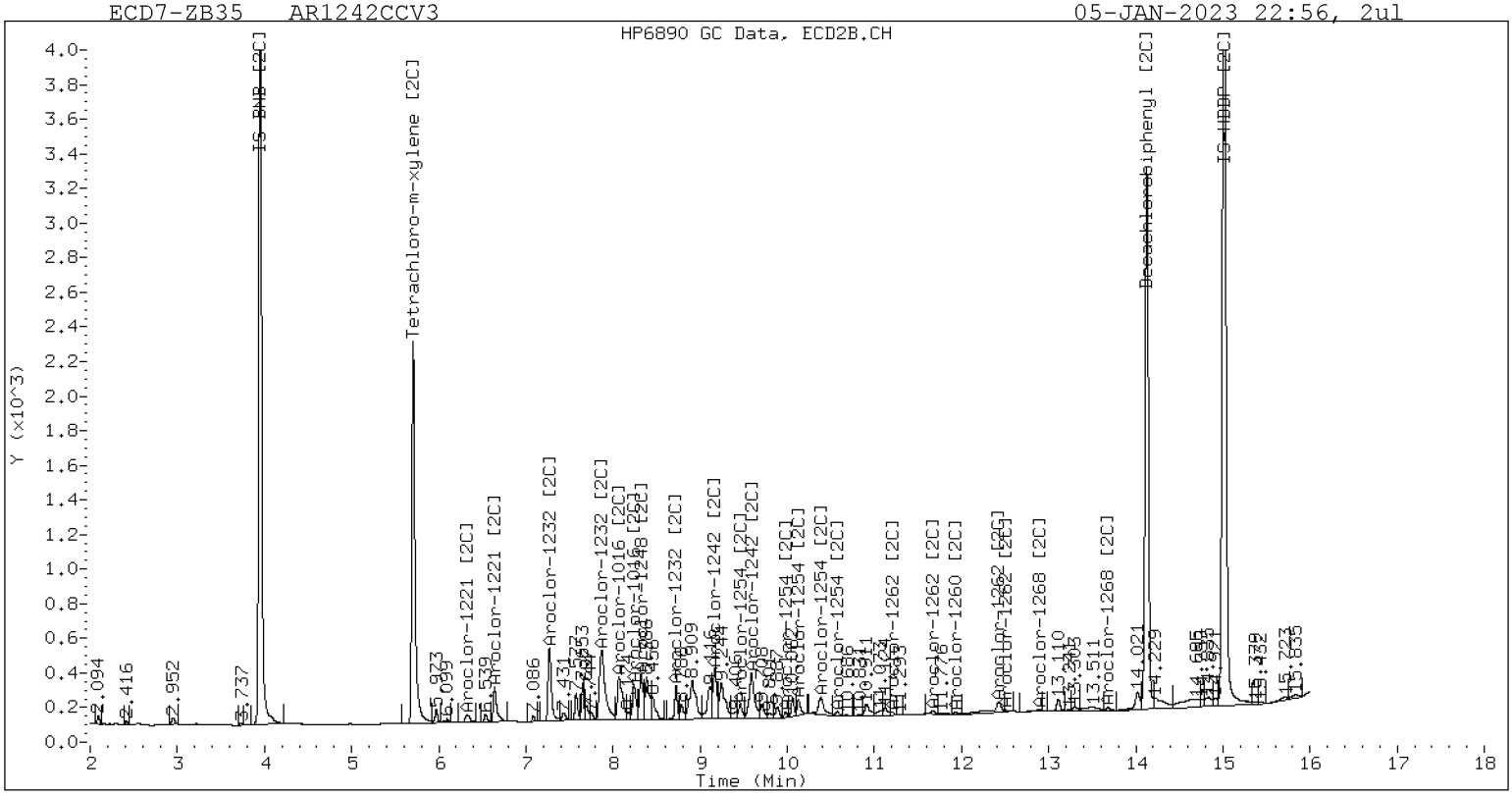
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV3 05-JAN-2023 22:56, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCV3 05-JAN-2023 22:56, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052332ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/05/23
Lab Sample ID:	SLA0096-CCV4	Injection Time:	23:17
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	261	0.0441939	0.0458625		4.3	+/-20	
Aroclor-1016 (1)	A	250.00	263	0.0266860	0.0281223		5.2		
Aroclor-1016 (2)	A	250.00	255	0.0861572	0.0879929		2.0		
Aroclor-1016 (3)	A	250.00	266	0.0390425	0.0415352		6.4		
Aroclor-1016 (4)	A	250.00	259	0.0248899	0.0257998		3.6		
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0422703		-3.9	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0414171		1.2		
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0692220		-21.6		
Aroclor-1016 (3) [2C]	A	250.00	246	0.0378846	0.0372252		-1.6		
Aroclor-1016 (4) [2C]	A	250.00	266	0.0199212	0.0212170		6.4		
Aroclor 1260	A	250.00	342	0.0390342	0.0529682		36.6	+/-20	*
Aroclor-1260 (1)	A	250.00	351	0.0291201	0.0409381		40.4		
Aroclor-1260 (2)	A	250.00	344	0.0301181	0.0415128		37.6		
Aroclor-1260 (3)	A	250.00	337	0.0791351	0.1067779		34.8		
Aroclor-1260 (4)	A	250.00	326	0.0403003	0.0525313		30.4		
Aroclor-1260 (5)	A	250.00	350	0.0164974	0.0230812		40.0		
Aroclor 1260 [2C]	A	250.00	225	0.0617619	0.0512601		-10.0	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	259	0.0422283	0.0436993		3.6		
Aroclor-1260 (2) [2C]	A	250.00	179	0.1059643	0.0759951		-28.4		
Aroclor-1260 (3) [2C]	A	250.00	266	0.0282173	0.0299846		6.4		
Aroclor-1260 (4) [2C]	A	250.00	196	0.0706376	0.0553614		-21.6		
Decachlorobiphenyl	A	40.000	48.6	0.7333327	0.8906966		21.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.5	1.1336710	1.1189950		-1.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.9	1.1358180	1.1621200		2.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1047020		0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052332ECD7.D
Data file 2: /230105.b/230105.b/01052332ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV4
Client ID:
Injection Date: 05-JAN-2023 23:17
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	132282	5.708	-0.002	90738	39.5	40.3	2.0	Tetrachloro-m-xylene
13.902	-0.002	180285	14.128	0.000	150924	48.6	40.9	17.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	236430	-47.2
Hexabromobiphenyl	798898	404818	-49.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	164276	-34.1
Hexabromobiphenyl	362541	259739	-28.4

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	20778	263.5	1	7.271	-0.001	21262	253.1
Aroclor-1016	2	7.677	-0.003	65013	255.3	2	7.871	-0.001	35536	196.2
Aroclor-1016	3	7.811	-0.001	30688	266.0	3	8.070	-0.002	19110	245.6
Aroclor-1016	4	8.423	-0.001	19062	259.1	4	8.241	-0.001	10892	266.3
Total Col1Ave (4 peaks):					261.0	Total Col2Ave (4 peaks):				240.3 RPD = 8
Corrected Ave (3 peaks):					259.3	Corrected Ave (3 peaks):				231.7 RPD = 11
CalAmt %D:					4.4	CalAmt %D:				-3.9
Aroclor-1260	1	11.055	-0.001	51789	351.5	1	11.662	-0.000	35470	258.7
Aroclor-1260	2	11.371	-0.001	52516	344.6	2	11.925	-0.001	61684	179.3
Aroclor-1260	3	11.745	-0.001	135080	337.3	3	12.444	0.000	24338	265.7
Aroclor-1260	4	12.149	-0.001	66455	325.9	4	12.509	0.001	44936	195.9
Aroclor-1260	5	12.254	-0.002	29199	349.8	NS	---			----
Total Col1Ave (5 peaks):					341.8	Total Col2Ave (4 peaks):				224.9 RPD = 41*
Corrected Ave (4 peaks):					339.4	Corrected Ave (3 peaks):				211.3 RPD = 47*
CalAmt %D:					36.7	CalAmt %D:				-10.0

Total PCB Area Col1 (5.933 - 13.804) = 1407369 Col1 Total PCB = 0.6 ppm*

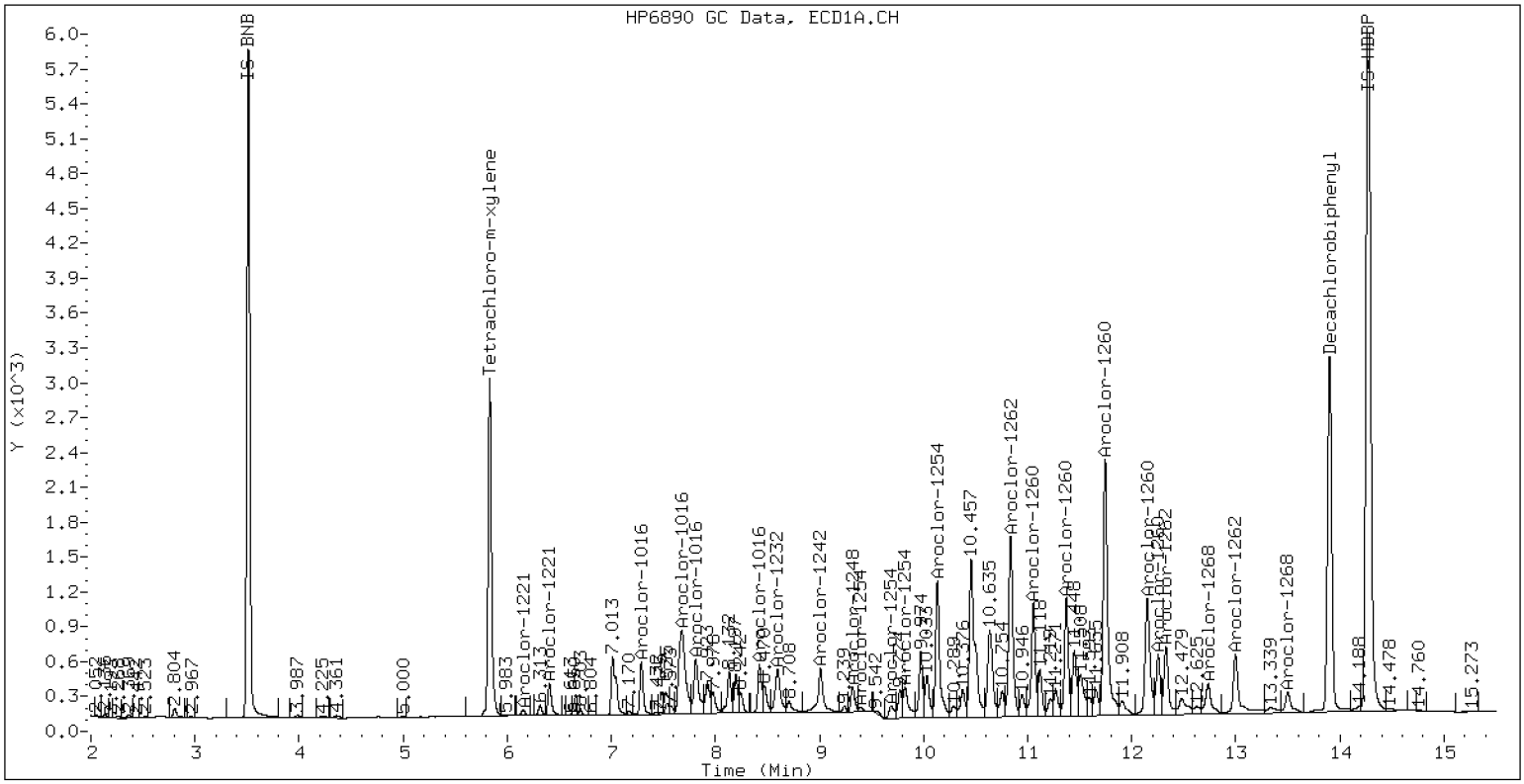
Total PCB Area Col2 (5.810 - 14.028) = 760963 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

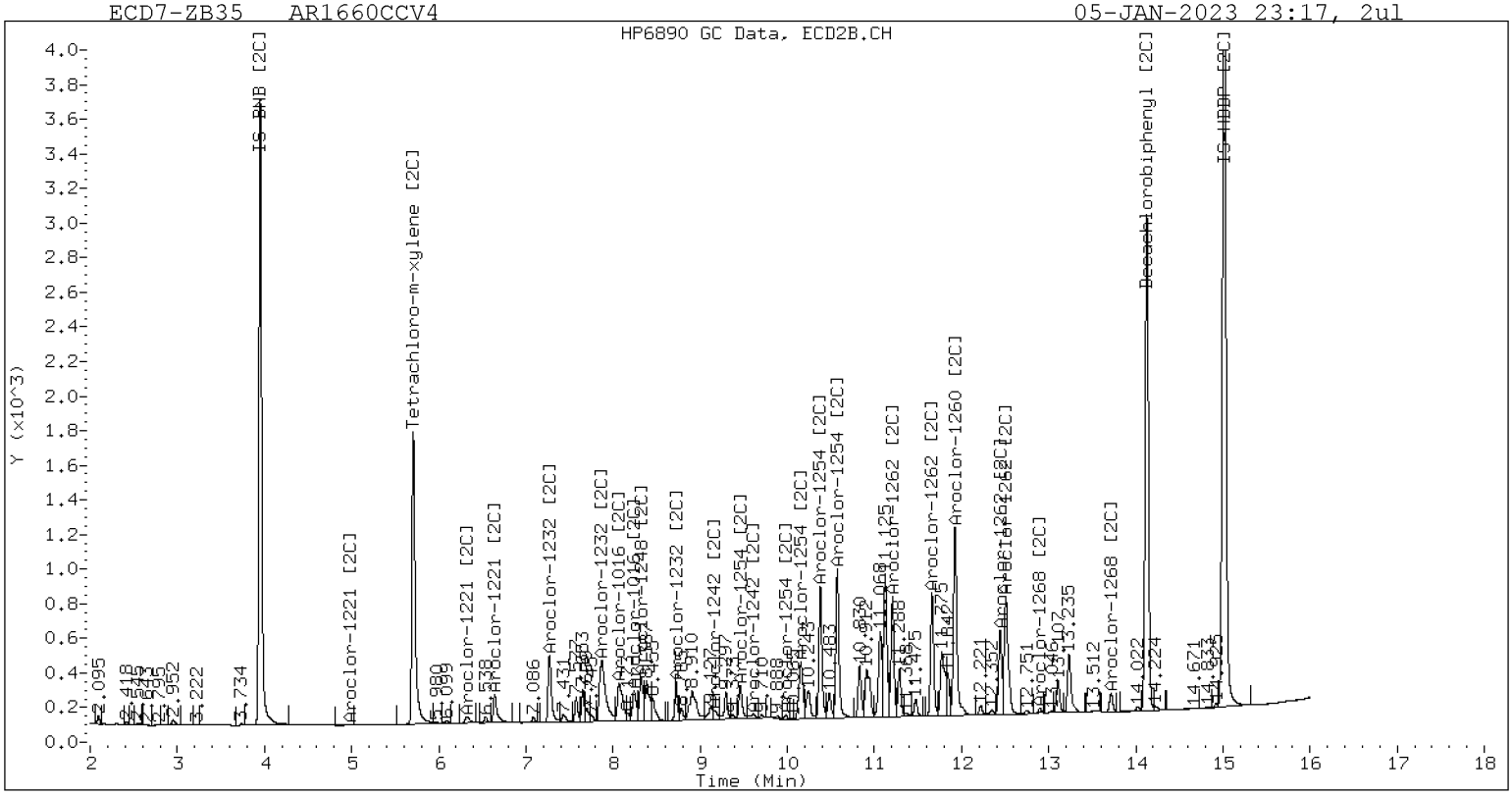
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV4 05-JAN-2023 23:17, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV4 05-JAN-2023 23:17, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052349ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV5	Injection Time:	05:15
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	299	0.0576965	0.0689166		19.8	+/-20
Aroclor-1254 (1)	A	250.00	263		0.0742393			
Aroclor-1254 (2)	A	250.00	340		0.0372293			
Aroclor-1254 (3)	A	250.00	242		0.0431067			
Aroclor-1254 (4)	A	250.00	320		0.1109556			
Aroclor-1254 (5)	A	250.00	332		0.0790521			
Aroclor 1254 [2C]	A	250.00	252	0.0638047	0.0658787		1.0	+/-20
Aroclor-1254 (1) [2C]	A	250.00	254		0.0523894			
Aroclor-1254 (2) [2C]	A	250.00	168		0.0278433			
Aroclor-1254 (3) [2C]	A	250.00	232		0.0826549			
Aroclor-1254 (4) [2C]	A	250.00	305		0.1125192			
Aroclor-1254 (5) [2C]	A	250.00	303		0.0539865			
Decachlorobiphenyl	A	40.000	42.8	0.7333327	0.7844985		7.0	+/-20
Tetrachlorometaxylene	A	40.000	38.5	1.1336710	1.0912030		-3.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.1	1.1358180	1.1663360		2.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0314310		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052349ECD7.D
Data file 2: /230105.b/230105.b/01052349ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCV5
Client ID:
Injection Date: 06-JAN-2023 05:15
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	180730	5.710	-0.000	115216	38.5	37.6	2.3	Tetrachloro-m-xylene
13.902	-0.002	331189	14.128	0.001	241543	42.8	41.1	4.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	331249	-26.0
Hexabromobiphenyl	798898	844333	5.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	223410	-10.3
Hexabromobiphenyl	362541	414191	14.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.315	0.002	76849	263.5	1	9.462	0.001	36576	253.9
Aroclor-1254	2	9.394	0.002	38538	339.8	2	9.979	0.001	19439	167.9
Aroclor-1254	3	9.687	0.002	44622	242.2	3	10.130	0.000	57706	231.8
Aroclor-1254	4	9.821	0.002	114856	319.9	4	10.379	0.001	78556	304.7
Aroclor-1254	5	10.177	0.002	81831	332.5	5	10.576	0.000	37691	303.1
Total Col1Ave (5 peaks):					299.6	Total Col2Ave (5 peaks):				252.3 RPD = 17
Corrected Ave (4 peaks):					289.5	Corrected Ave (4 peaks):				239.2 RPD = 19
CalAmt %D:					19.8	CalAmt %D:				0.9

Total PCB Area Col1 (5.933 - 13.804) = 1285342 Col1 Total PCB = 0.4 ppm*

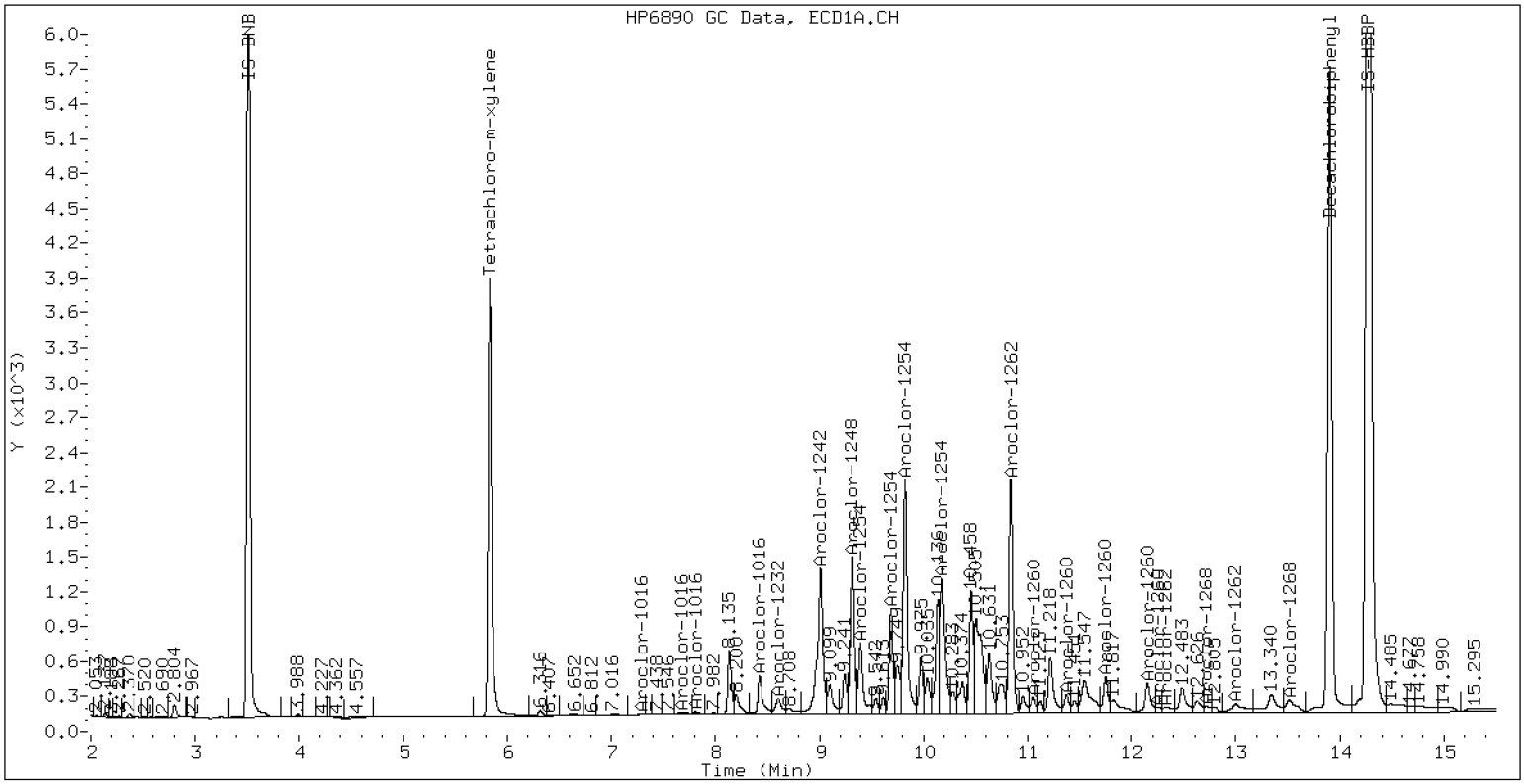
Total PCB Area Col2 (5.810 - 14.028) = 674711 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

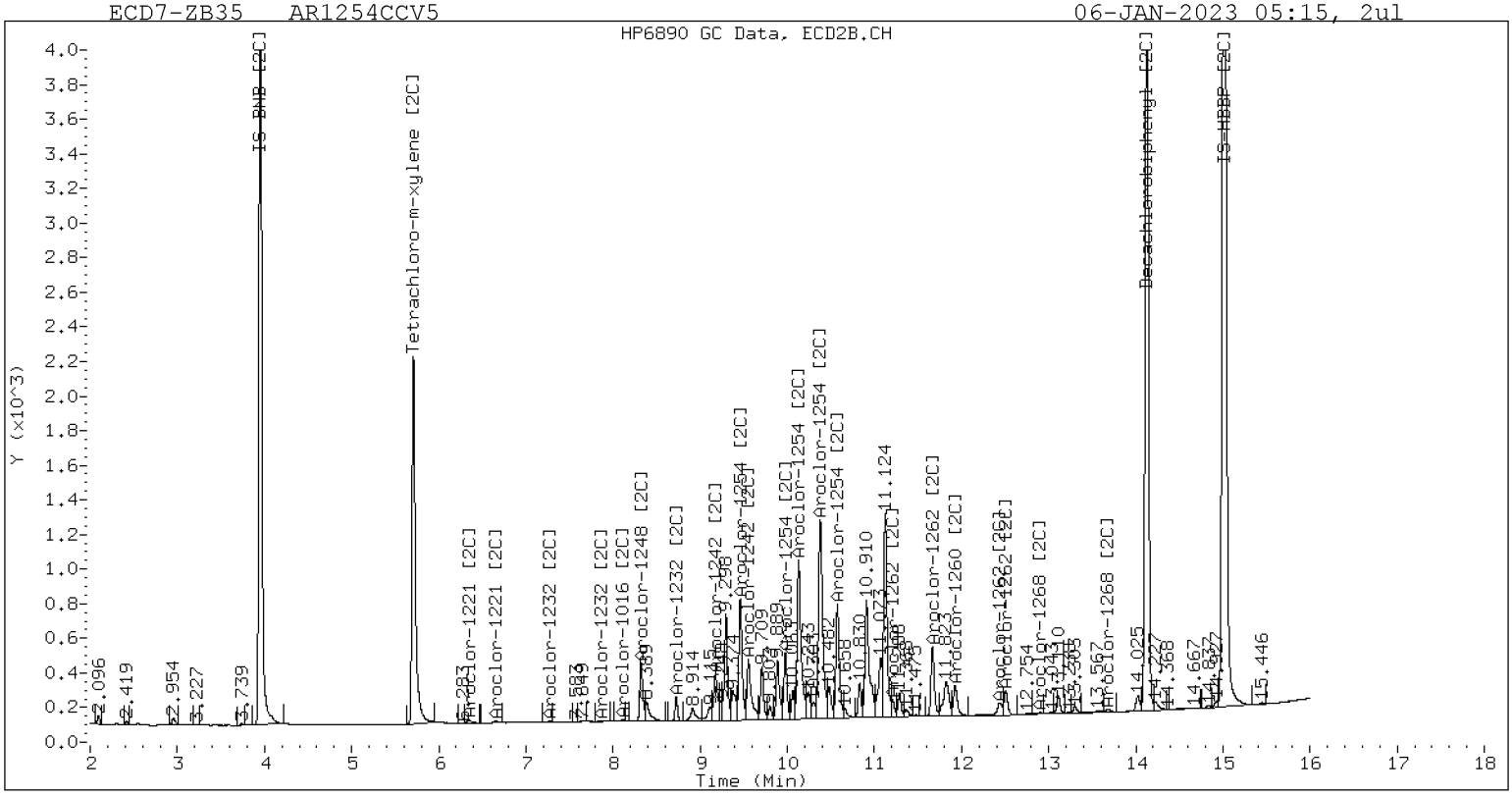
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCV5 06-JAN-2023 05:15, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCV5 06-JAN-2023 05:15, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052350ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV6	Injection Time:	05:36
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	264	0.0441939	0.0465175		5.7	+/-20	
Aroclor-1016 (1)	A	250.00	252	0.0266860	0.0268898		0.8		
Aroclor-1016 (2)	A	250.00	260	0.0861572	0.0894571		4.0		
Aroclor-1016 (3)	A	250.00	272	0.0390425	0.0425539		8.8		
Aroclor-1016 (4)	A	250.00	273	0.0248899	0.0271691		9.2		
Aroclor 1016 [2C]	A	250.00	244	0.0467310	0.0429987		-2.4	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	253	0.0409030	0.0413365		1.2		
Aroclor-1016 (2) [2C]	A	250.00	201	0.0882154	0.0709622		-19.6		
Aroclor-1016 (3) [2C]	A	250.00	252	0.0378846	0.0382123		0.8		
Aroclor-1016 (4) [2C]	A	250.00	270	0.0199212	0.0214840		8.0		
Aroclor 1260	A	250.00	268	0.0390342	0.0416223		7.2	+/-20	
Aroclor-1260 (1)	A	250.00	267	0.0291201	0.0311438		6.8		
Aroclor-1260 (2)	A	250.00	266	0.0301181	0.0321159		6.4		
Aroclor-1260 (3)	A	250.00	267	0.0791351	0.0846476		6.8		
Aroclor-1260 (4)	A	250.00	258	0.0403003	0.0415749		3.2		
Aroclor-1260 (5)	A	250.00	282	0.0164974	0.0186292		12.8		
Aroclor 1260 [2C]	A	250.00	199	0.0617619	0.0448825		-20.5	+/-20	*
Aroclor-1260 (1) [2C]	A	250.00	232	0.0422283	0.0391729		-7.2		
Aroclor-1260 (2) [2C]	A	250.00	154	0.1059643	0.0654669		-38.4		
Aroclor-1260 (3) [2C]	A	250.00	239	0.0282173	0.0269576		-4.4		
Aroclor-1260 (4) [2C]	A	250.00	170	0.0706376	0.0479327		-32.0		
Decachlorobiphenyl	A	40.000	44.8	0.7333327	0.8222776		12.0	+/-20	
Tetrachlorometaxylene	A	40.000	38.9	1.1336710	1.1014250		-2.8	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1510040		1.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.4	1.0966080	1.1081940		1.0	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052350ECD7.D
Data file 2: /230105.b/230105.b/01052350ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV6
Client ID:
Injection Date: 06-JAN-2023 05:36
Report Date: 01/10/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	136265	5.709	-0.001	92056	38.9	40.4	3.9	Tetrachloro-m-xylene
13.903	-0.001	259193	14.128	0.001	186206	44.9	40.5	10.1	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	247434	-44.7
Hexabromobiphenyl	798898	630427	-21.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	166137	-33.3
Hexabromobiphenyl	362541	323554	-10.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.000	20792	251.9	1	7.271	-0.001	21461	252.6
Aroclor-1016	2	7.678	-0.002	69171	259.6	2	7.874	0.002	36842	201.1
Aroclor-1016	3	7.813	0.001	32904	272.5	3	8.071	-0.001	19839	252.2
Aroclor-1016	4	8.424	0.000	21008	272.9	4	8.243	0.001	11154	269.6
	Total Col1Ave (4 peaks):				264.2	Total Col2Ave (4 peaks):				243.9 RPD = 8
	Corrected Ave (3 peaks):				261.3	Corrected Ave (3 peaks):				235.3 RPD = 10
		CalAmt %D:			5.7		CalAmt %D:			-2.4
Aroclor-1260	1	11.056	-0.000	61356	267.4	1	11.663	0.000	39608	231.9
Aroclor-1260	2	11.372	0.000	63271	266.6	2	11.925	-0.001	66194	154.5
Aroclor-1260	3	11.746	0.000	166763	267.4	3	12.444	0.000	27257	238.8
Aroclor-1260	4	12.151	0.000	81906	257.9	4	12.509	0.001	48465	169.6
Aroclor-1260	5	12.255	-0.000	36701	282.3	NS	---			----
	Total Col1Ave (5 peaks):				268.3	Total Col2Ave (4 peaks):				198.7 RPD = 30
	Corrected Ave (4 peaks):				264.8	Corrected Ave (3 peaks):				185.3 RPD = 35
		CalAmt %D:			7.3		CalAmt %D:			-20.5

Total PCB Area Col1 (5.933 - 13.804) = 1689358 Col1 Total PCB = 0.7 ppm*

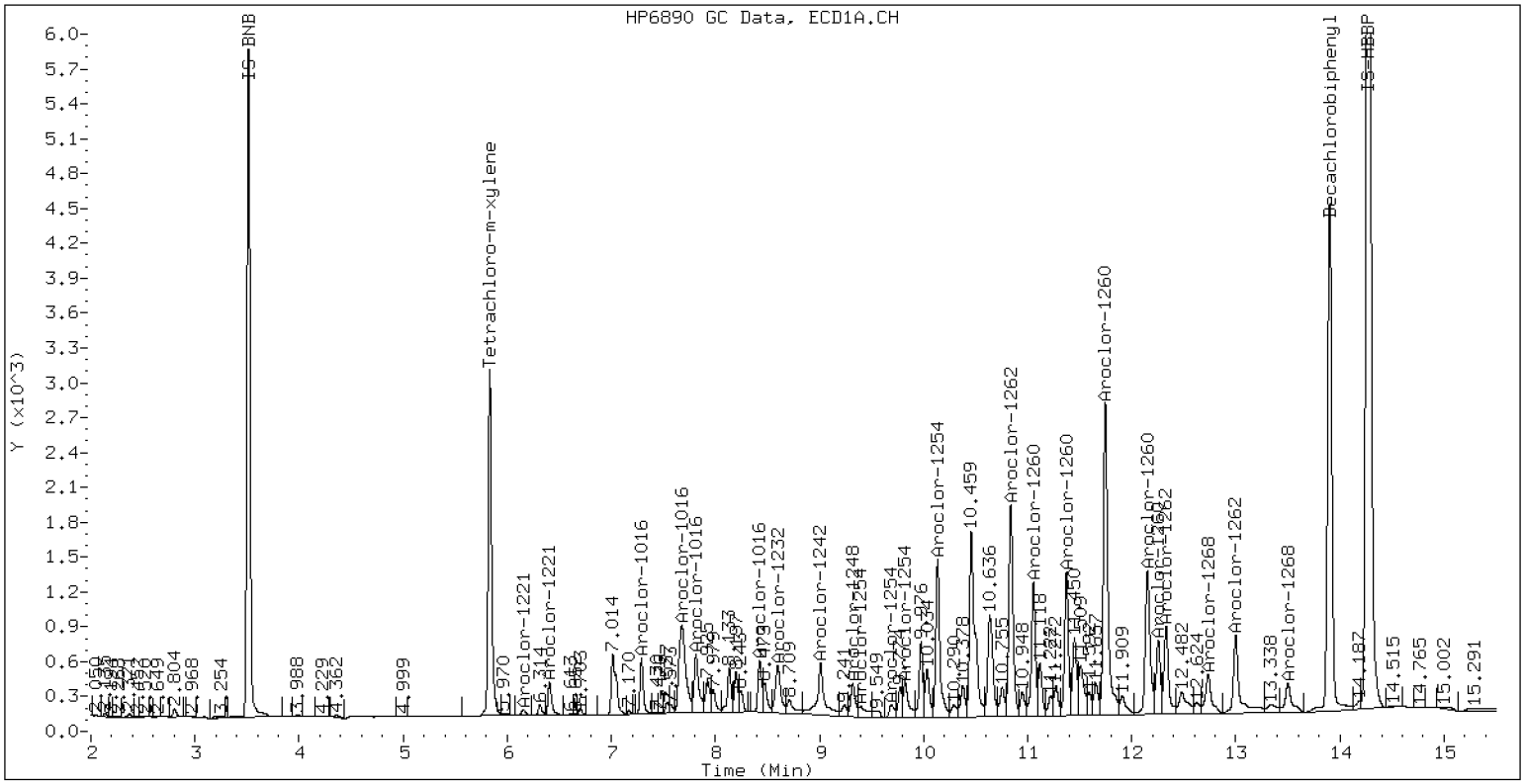
Total PCB Area Col2 (5.810 - 14.028) = 829995 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

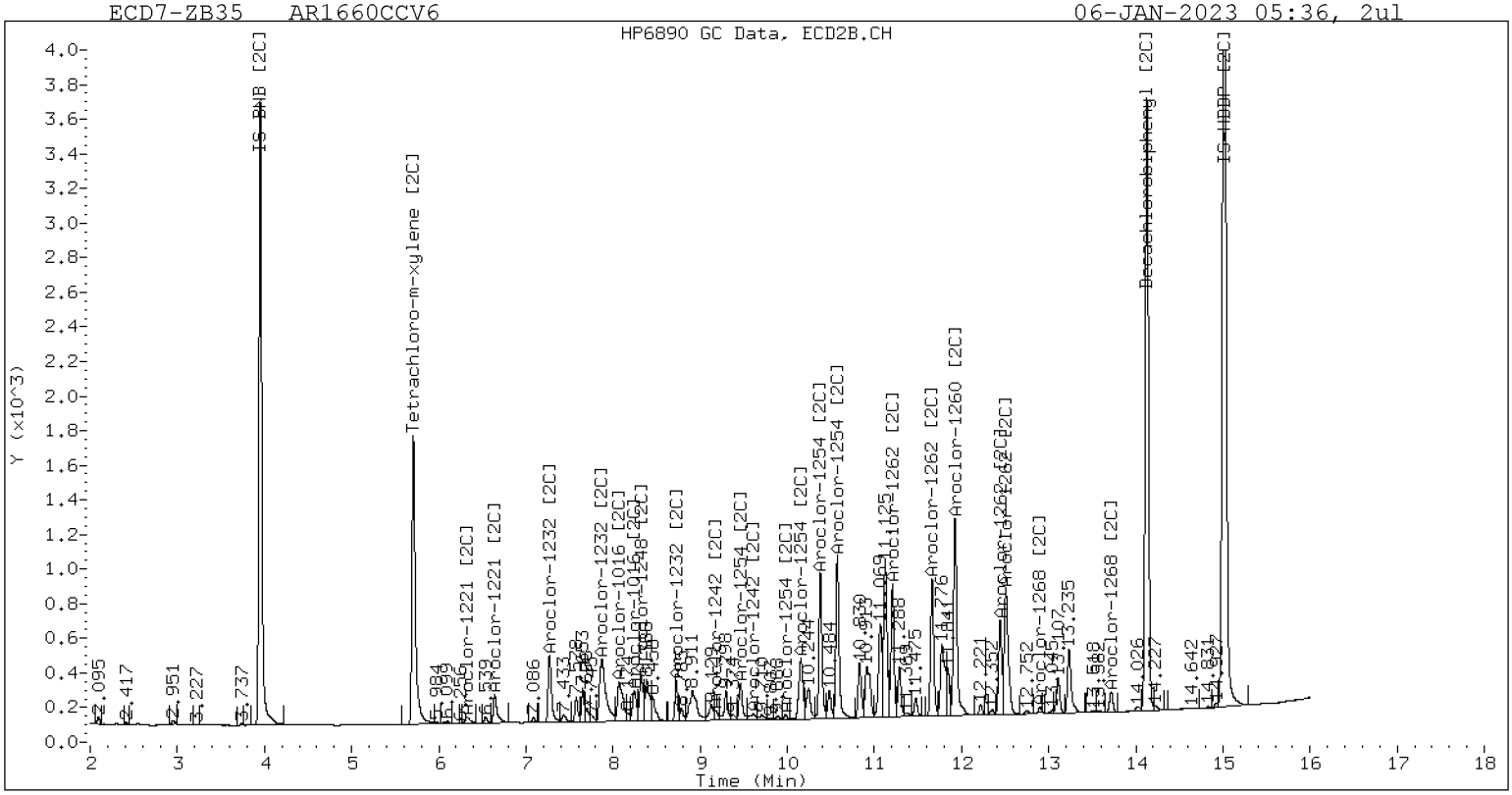
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV6 06-JAN-2023 05:36, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV6 06-JAN-2023 05:36, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052361ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV7	Injection Time:	09:28
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	251	0.0490062	0.0505131		0.2	+/-20
Aroclor-1248 (1)	A	250.00	273		0.0375840			
Aroclor-1248 (2)	A	250.00	284		0.0499930			
Aroclor-1248 (3)	A	250.00	283		0.0894522			
Aroclor-1248 (4)	A	250.00	162		0.0250231			
Aroclor 1248 [2C]	A	250.00	240	0.0394876	0.0382044		-4.2	+/-20
Aroclor-1248 (1) [2C]	A	250.00	253		0.0331055			
Aroclor-1248 (2) [2C]	A	250.00	187		0.0256901			
Aroclor-1248 (3) [2C]	A	250.00	265		0.0442979			
Aroclor-1248 (4) [2C]	A	250.00	253		0.0497239			
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8018235		9.3	+/-20
Tetrachlorometaxylene	A	40.000	36.6	1.1336710	1.0389380		-8.5	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1523420		1.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.1	1.0966080	1.0443940		-4.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052361ECD7.D
Data file 2: /230105.b/230105.b/01052361ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCV7
Client ID:
Injection Date: 06-JAN-2023 09:28
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.000	159746	5.708	-0.002	113394	36.7	38.1	3.8	Tetrachloro-m-xylene
13.903	-0.001	147922	14.127	-0.000	149986	43.7	40.6	7.5	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	307518	-31.3
Hexabromobiphenyl	798898	368964	-53.8 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	217148	-12.8
Hexabromobiphenyl	362541	260315	-28.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.423	-0.000	36118	273.2	1	8.321	0.000	22465	253.2
Aroclor-1248	2	8.598	-0.001	48043	284.6	2	8.727	0.000	17433	186.8
Aroclor-1248	3	9.017	0.001	85963	283.1	3	9.173	0.000	30060	264.9
Aroclor-1248	4	9.312	0.000	24047	161.6	4	9.593	0.000	33742	253.3
Total Col1Ave (4 peaks):					250.6	Total Col2Ave (4 peaks):				239.6 RPD = 5
Corrected Ave (3 peaks):					239.3	Corrected Ave (3 peaks):				231.1 RPD = 3
CalAmt %D:					0.2	CalAmt %D:				-4.2

Total PCB Area Col1 (5.933 - 13.804) = 750323 Col1 Total PCB = 0.3 ppm*

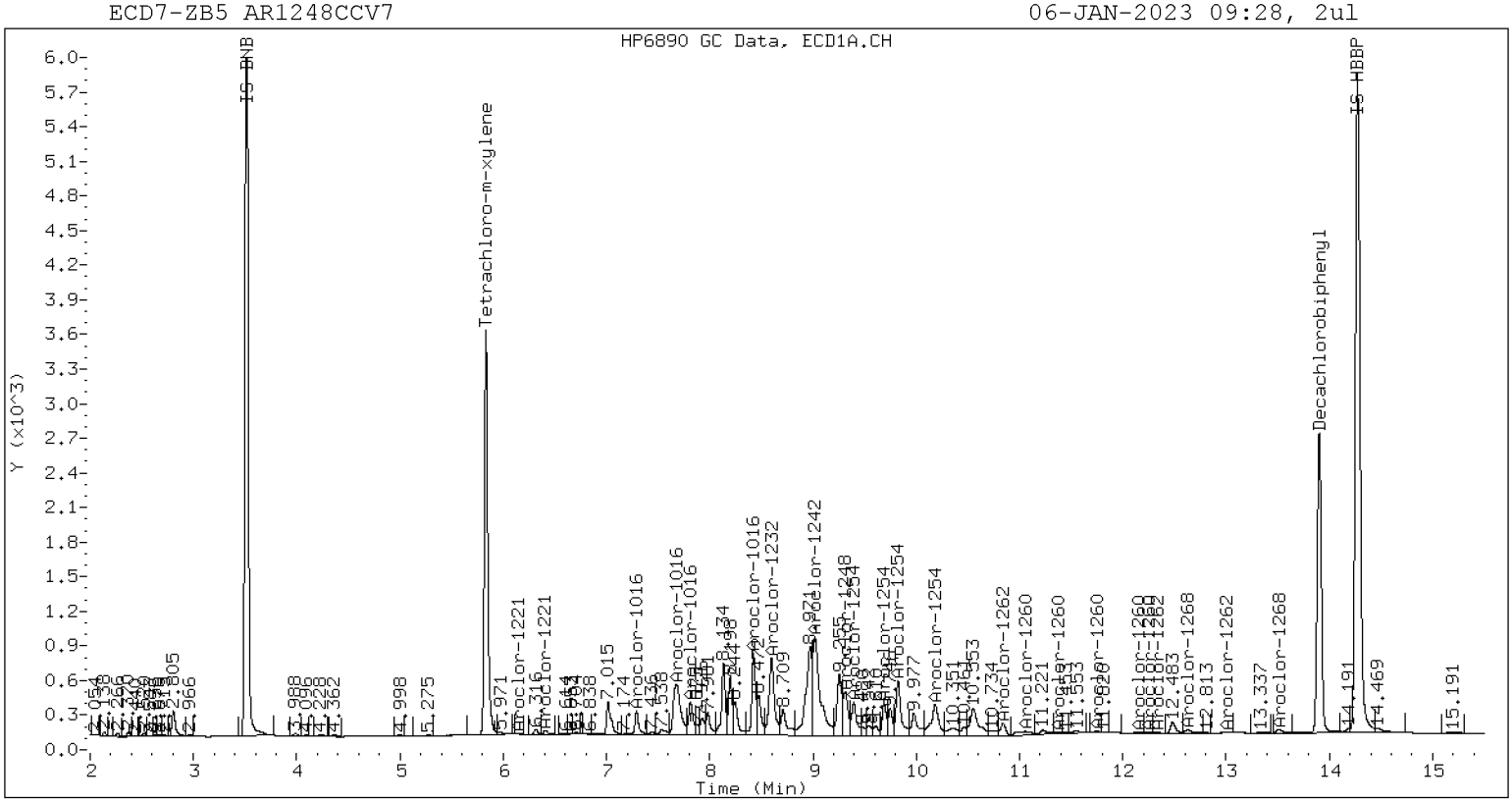
Total PCB Area Col2 (5.810 - 14.028) = 414792 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

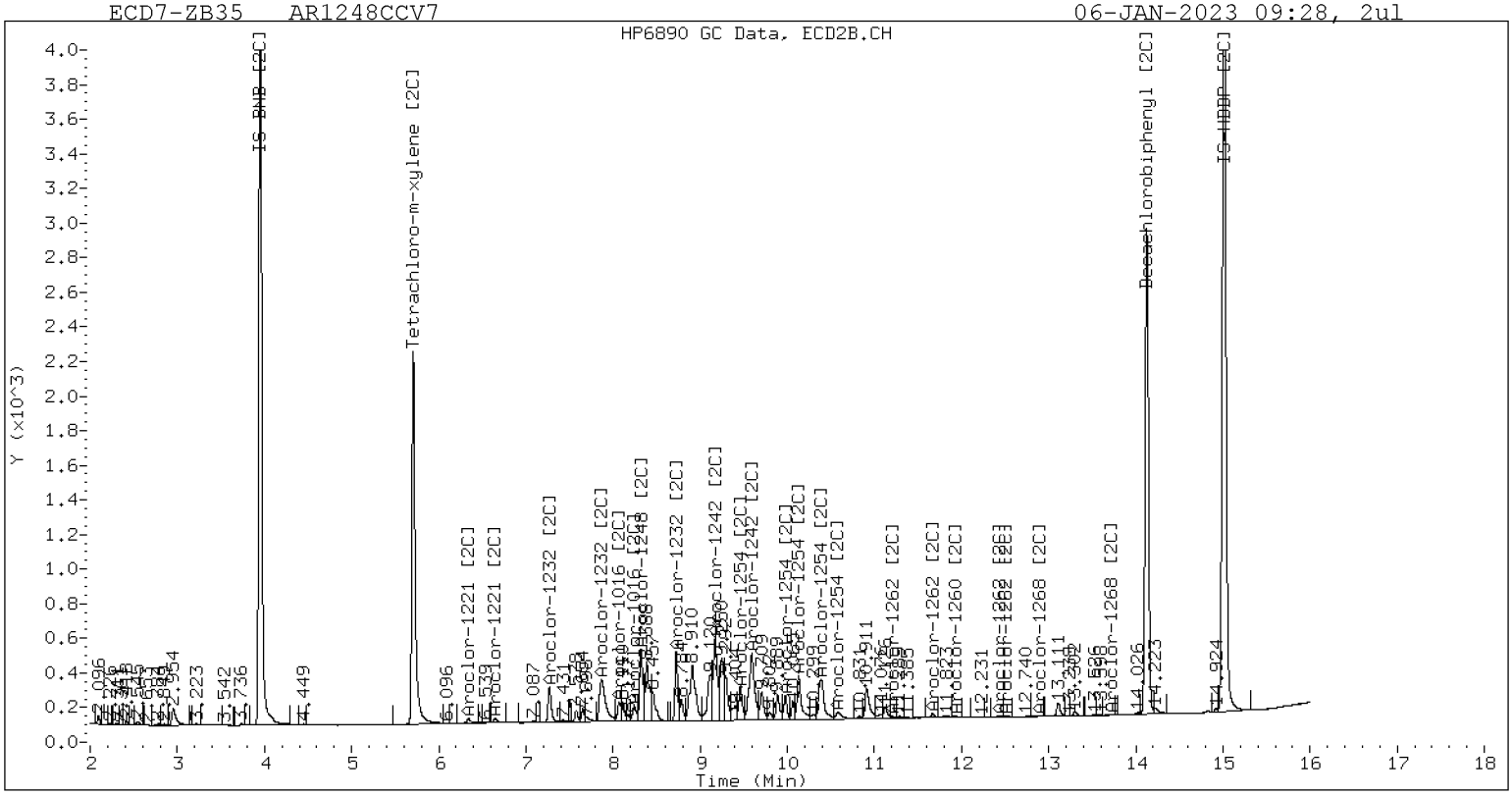
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248CCV7 06-JAN-2023 09:28, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248CCV7 06-JAN-2023 09:28, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052362ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV8	Injection Time:	09:49
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	305	0.0441939	0.0521115		22.1	+/-20	*
Aroclor-1016 (1)	A	250.00	292	0.0266860	0.0311495		16.8		
Aroclor-1016 (2)	A	250.00	277	0.0861572	0.0954073		10.8		
Aroclor-1016 (3)	A	250.00	300	0.0390425	0.0468589		20.0		
Aroclor-1016 (4)	A	250.00	352	0.0248899	0.0350304		40.8		
Aroclor 1016 [2C]	A	250.00	249	0.0467310	0.0436814		-0.6	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	259	0.0409030	0.0423757		3.6		
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0714483		-19.2		
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0388490		2.4		
Aroclor-1016 (4) [2C]	A	250.00	277	0.0199212	0.0220527		10.8		
Aroclor 1260	A	250.00	357	0.0390342	0.0551876		42.8	+/-20	*
Aroclor-1260 (1)	A	250.00	382	0.0291201	0.0445404		52.8		
Aroclor-1260 (2)	A	250.00	370	0.0301181	0.0445712		48.0		
Aroclor-1260 (3)	A	250.00	347	0.0791351	0.1099276		38.8		
Aroclor-1260 (4)	A	250.00	332	0.0403003	0.0535538		32.8		
Aroclor-1260 (5)	A	250.00	354	0.0164974	0.0233450		41.6		
Aroclor 1260 [2C]	A	250.00	249	0.0617619	0.0572203		-0.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	277	0.0422283	0.0468244		10.8		
Aroclor-1260 (2) [2C]	A	250.00	206	0.1059643	0.0871289		-17.6		
Aroclor-1260 (3) [2C]	A	250.00	291	0.0282173	0.0328305		16.4		
Aroclor-1260 (4) [2C]	A	250.00	220	0.0706376	0.0620974		-12.0		
Decachlorobiphenyl	A	40.000	45.3	0.7333327	0.8314108		13.3	+/-20	
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1099130		-2.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1808740		4.0	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1044110		0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052362ECD7.D
Data file 2: /230105.b/230105.b/01052362ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCV8
Client ID:
Injection Date: 06-JAN-2023 09:49
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	121399	5.708	-0.002	83975	39.2	40.3	2.8	Tetrachloro-m-xylene
13.902	-0.002	138496	14.127	-0.001	128521	45.3	41.6	8.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	218754	-51.1 <-
Hexabromobiphenyl	798898	333159	-58.3 <-

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	152072	-38.9
Hexabromobiphenyl	362541	217671	-40.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	21294	291.8	1	7.272	-0.000	20138	259.0
Aroclor-1016	2	7.677	-0.003	65221	276.8	2	7.872	-0.001	33954	202.5
Aroclor-1016	3	7.812	-0.000	32033	300.1	3	8.071	-0.000	18462	256.4
Aroclor-1016	4	8.424	-0.000	23947	351.9	4	8.243	0.000	10480	276.7
Total Col1Ave (4 peaks):					305.1	Total Col2Ave (4 peaks):				248.6 RPD = 20
Corrected Ave (3 peaks):					289.6	Corrected Ave (3 peaks):				239.3 RPD = 19
CalAmt %D:					22.1	CalAmt %D:				-0.5
Aroclor-1260	1	11.056	0.000	46372	382.4	1	11.662	-0.000	31851	277.2
Aroclor-1260	2	11.372	0.000	46404	370.0	2	11.925	-0.001	59267	205.6
Aroclor-1260	3	11.746	0.000	114448	347.3	3	12.443	0.000	22332	290.9
Aroclor-1260	4	12.150	-0.000	55756	332.2	4	12.508	0.000	42240	219.8
Aroclor-1260	5	12.255	-0.001	24305	353.8	NS	---			----
Total Col1Ave (5 peaks):					357.1	Total Col2Ave (4 peaks):				248.4 RPD = 36
Corrected Ave (4 peaks):					350.8	Corrected Ave (3 peaks):				234.2 RPD = 40
CalAmt %D:					42.8	CalAmt %D:				-0.7

Total PCB Area Col1 (5.933 - 13.804) = 1362111 Col1 Total PCB = 0.7 ppm*

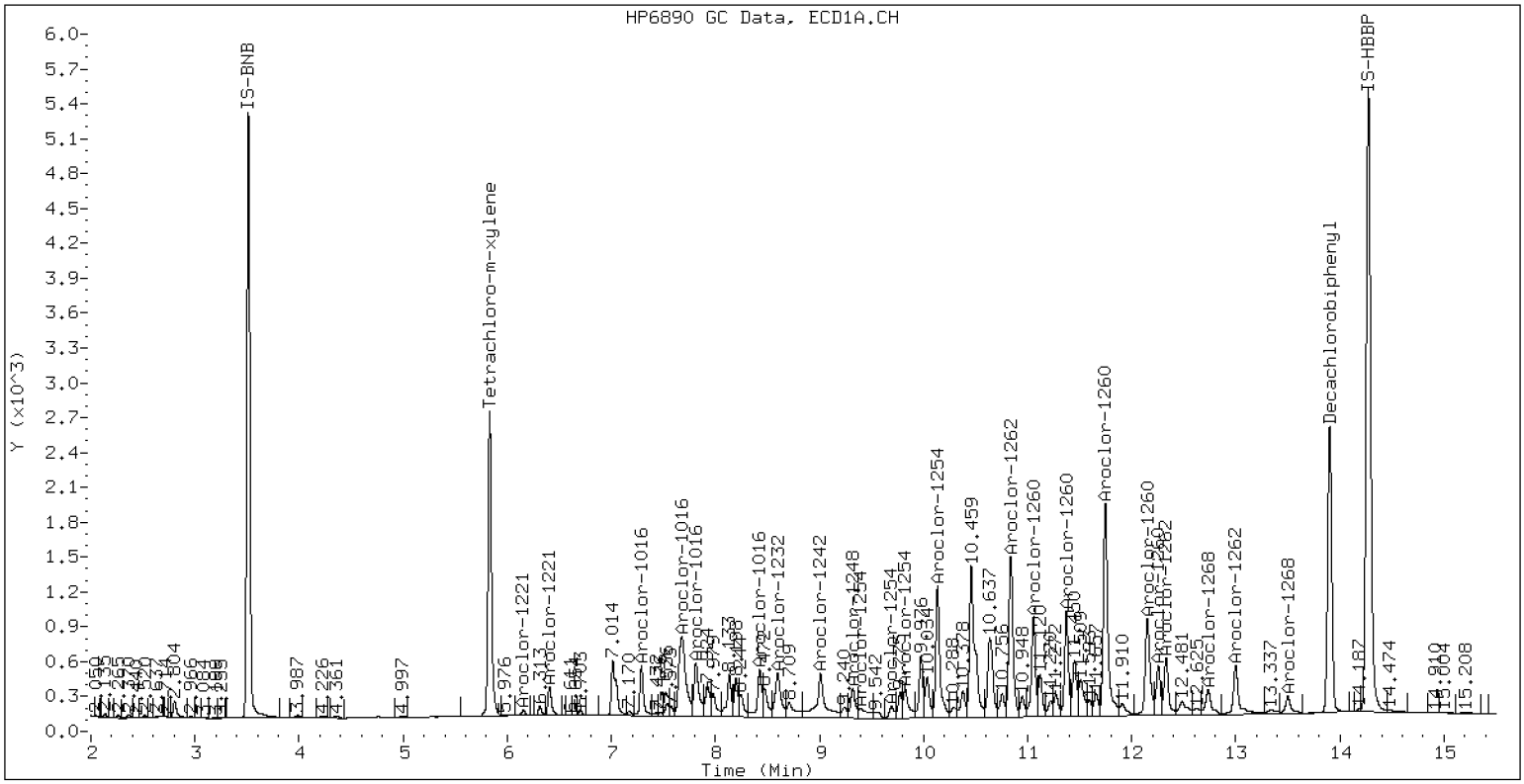
Total PCB Area Col2 (5.810 - 14.028) = 716935 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

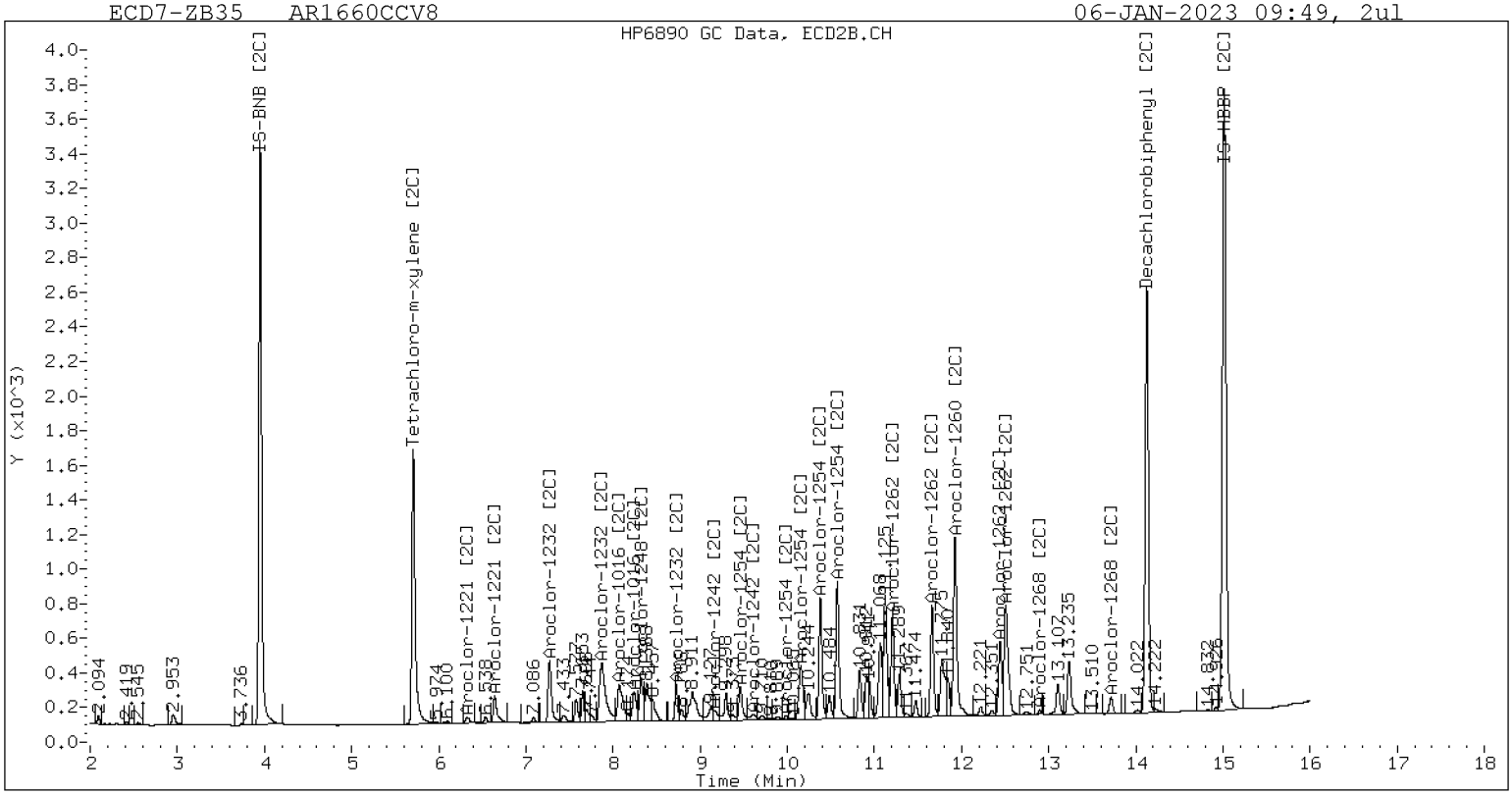
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCV8 06-JAN-2023 09:49, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCV8 06-JAN-2023 09:49, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052372ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCV9	Injection Time:	13:19
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	326	0.0396000	0.0495541		30.3	+/-20 *
Aroclor-1242 (1)	A	250.00	318		0.0288118			
Aroclor-1242 (2)	A	250.00	281		0.0810592			
Aroclor-1242 (3)	A	250.00	368		0.0304877			
Aroclor-1242 (4)	A	250.00	336		0.0578576			
Aroclor 1242 [2C]	A	250.00	261	0.0391981	0.0379342		4.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0348656			
Aroclor-1242 (2) [2C]	A	250.00	197		0.0567495			
Aroclor-1242 (3) [2C]	A	250.00	291		0.0270117			
Aroclor-1242 (4) [2C]	A	250.00	297		0.0331101			
Decachlorobiphenyl	A	40.000	46.6	0.7333327	0.8546401		16.5	+/-20
Tetrachlorometaxylene	A	40.000	38.7	1.1336710	1.0979570		-3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.3	1.1358180	1.1169180		-1.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.6	1.0966080	1.0304530		-6.0	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052372ECD7.D
Data file 2: /230105.b/230105.b/01052372ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242CCV9
Client ID:
Injection Date: 06-JAN-2023 13:19
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	165931	5.708	-0.001	108195	38.7	37.6	3.0	Tetrachloro-m-xylene
13.901	-0.002	244886	14.127	-0.000	180408	46.6	39.3	16.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	302254	-32.5
Hexabromobiphenyl	798898	573074	-28.3

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	209995	-15.7
Hexabromobiphenyl	362541	323046	-10.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.005	27214	317.7	1	7.272	0.001	22880	257.4
Aroclor-1242	2	7.677	-0.008	76564	281.5	2	7.871	0.001	37241	197.4
Aroclor-1242	3	8.423	-0.007	28797	367.9	3	9.170	-0.002	17726	291.2
Aroclor-1242	4	9.022	-0.009	54649	336.3	4	9.591	-0.001	21728	297.0
Total Col1Ave (4 peaks):					325.8	Total Col2Ave (4 peaks):				260.8 RPD = 22
Corrected Ave (3 peaks):					311.8	Corrected Ave (3 peaks):				248.7 RPD = 23
CalAmt %D:					30.3	CalAmt %D:				4.3

Total PCB Area Col1 (5.933 - 13.804) = 946282 Col1 Total PCB = 0.3 ppm*

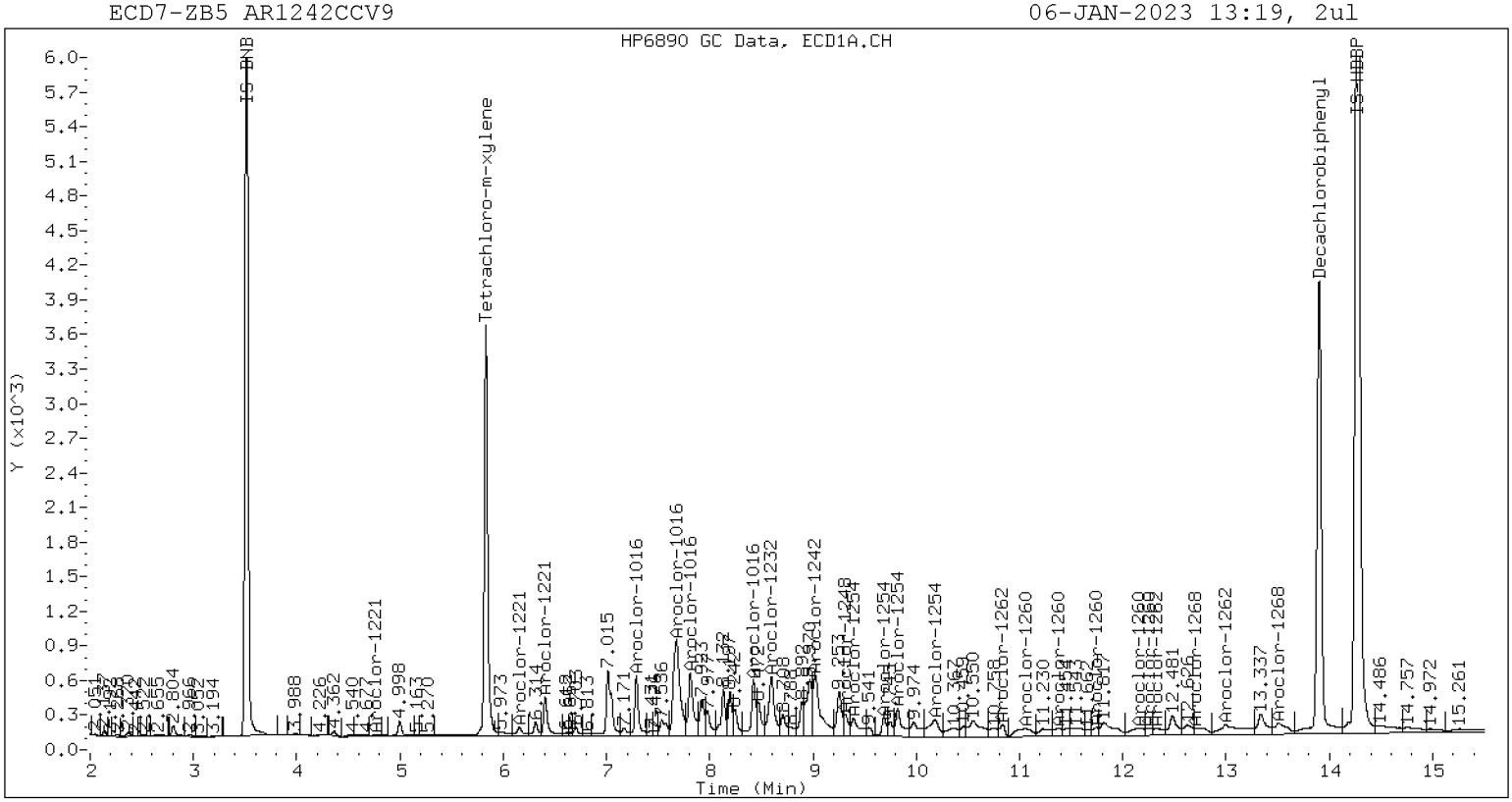
Total PCB Area Col2 (5.810 - 14.028) = 360229 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

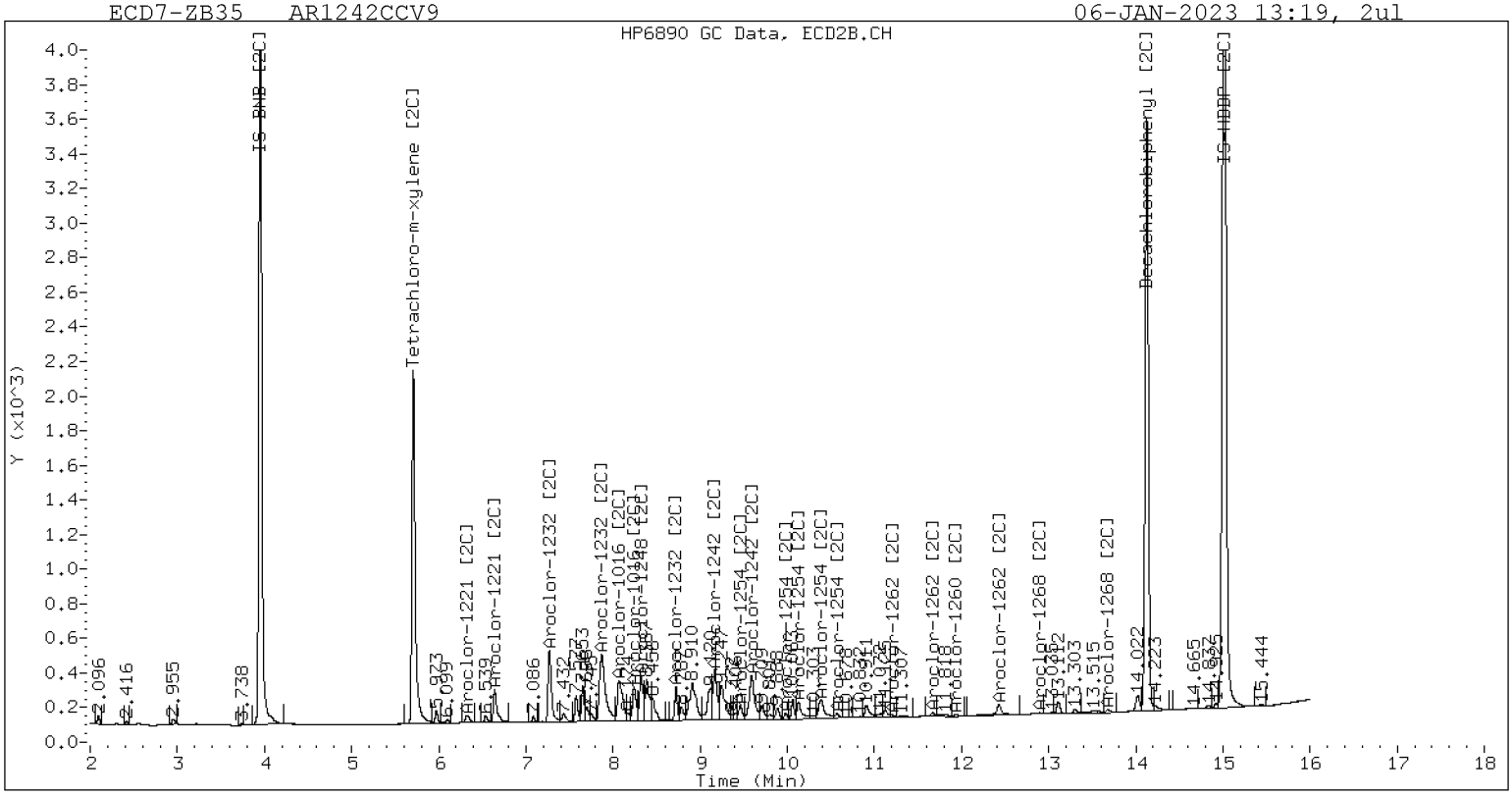
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCV9 06-JAN-2023 13:19, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242CCV9 06-JAN-2023 13:19, 2ul

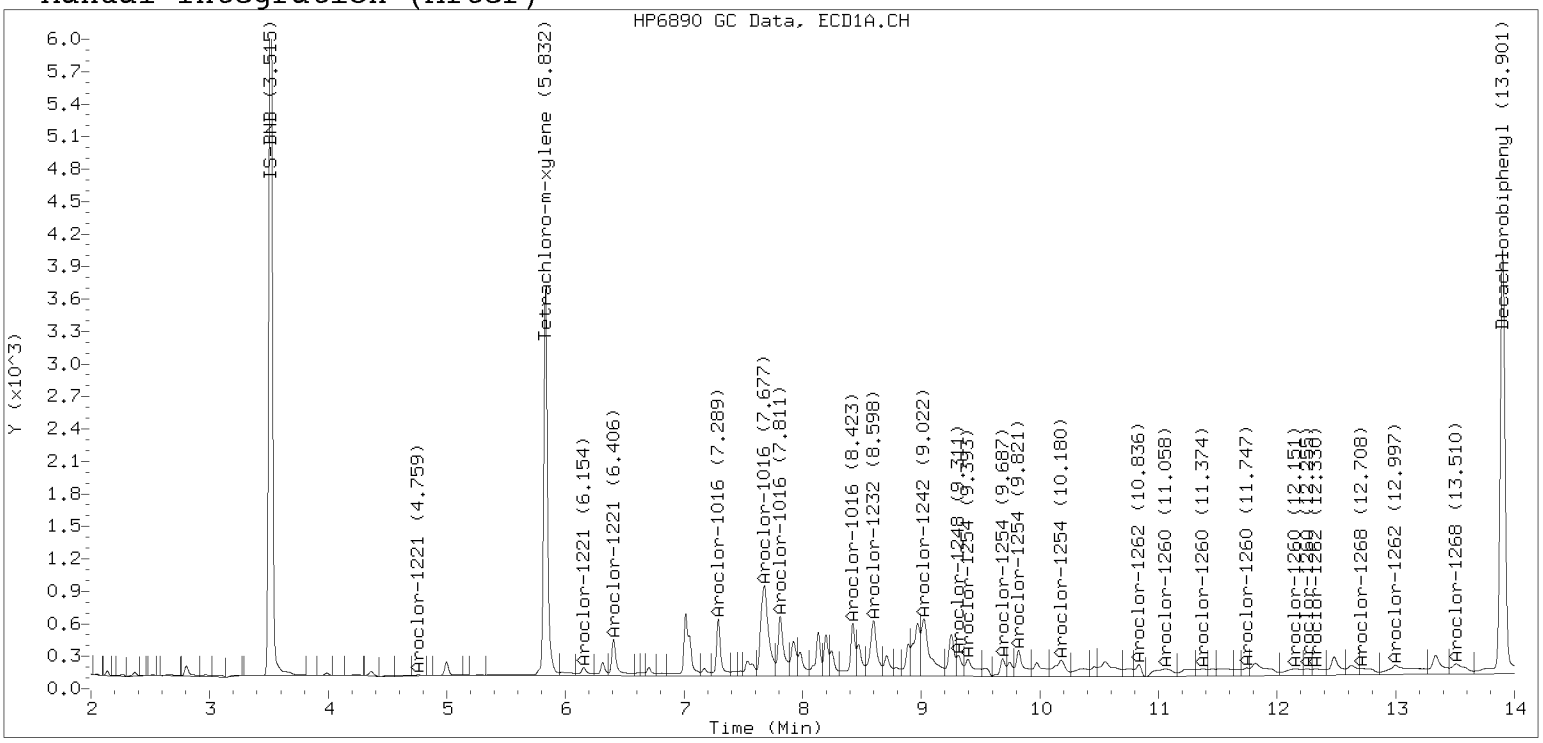


ZB-35 Manual Integration: NO

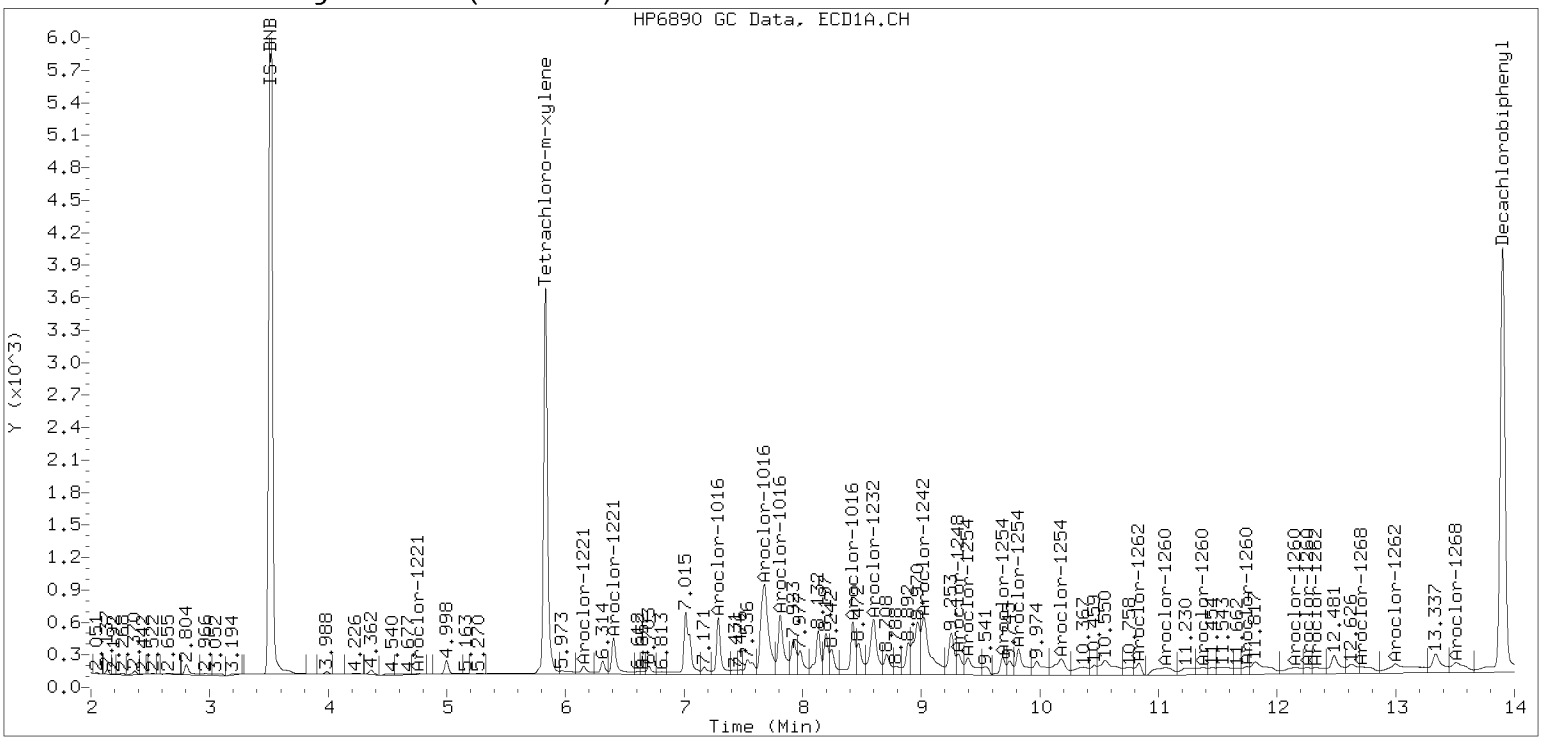
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230105.b/01052372ECD7.D Injection Date: 06-JAN-2023 13:19

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052373ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVA	Injection Time:	13:40
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	272	0.0441939	0.0474435		8.9	+/-20	
Aroclor-1016 (1)	A	250.00	269	0.0266860	0.0286971		7.6		
Aroclor-1016 (2)	A	250.00	261	0.0861572	0.0898299		4.4		
Aroclor-1016 (3)	A	250.00	277	0.0390425	0.0432184		10.8		
Aroclor-1016 (4)	A	250.00	282	0.0248899	0.0280287		12.8		
Aroclor 1016 [2C]	A	250.00	240	0.0467310	0.0422433		-3.9	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	250	0.0409030	0.0408405		0.0		
Aroclor-1016 (2) [2C]	A	250.00	196	0.0882154	0.0692409		-21.6		
Aroclor-1016 (3) [2C]	A	250.00	249	0.0378846	0.0376828		-0.4		
Aroclor-1016 (4) [2C]	A	250.00	266	0.0199212	0.0212092		6.4		
Aroclor 1260	A	250.00	317	0.0390342	0.0492576		27.0	+/-20	*
Aroclor-1260 (1)	A	250.00	329	0.0291201	0.0383380		31.6		
Aroclor-1260 (2)	A	250.00	324	0.0301181	0.0389798		29.6		
Aroclor-1260 (3)	A	250.00	314	0.0791351	0.0995538		25.6		
Aroclor-1260 (4)	A	250.00	299	0.0403003	0.0482309		19.6		
Aroclor-1260 (5)	A	250.00	321	0.0164974	0.0211853		28.4		
Aroclor 1260 [2C]	A	250.00	219	0.0617619	0.0496587		-12.6	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	252	0.0422283	0.0426155		0.8		
Aroclor-1260 (2) [2C]	A	250.00	173	0.1059643	0.0732029		-30.8		
Aroclor-1260 (3) [2C]	A	250.00	259	0.0282173	0.0292578		3.6		
Aroclor-1260 (4) [2C]	A	250.00	190	0.0706376	0.0535588		-24.0		
Decachlorobiphenyl	A	40.000	49.6	0.7333327	0.9091503		24.0	+/-20	
Tetrachlorometaxylene	A	40.000	39.2	1.1336710	1.1111550		-2.0	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.6	1.1358180	1.1541060		1.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1050490		0.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052373ECD7.D
Data file 2: /230105.b/230105.b/01052373ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVA
Client ID:
Injection Date: 06-JAN-2023 13:40
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	125540	5.708	-0.002	84381	39.2	40.3	2.8	Tetrachloro-m-xylene
13.902	-0.002	203091	14.128	0.000	151511	49.6	40.6	19.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	225963	-49.5
Hexabromobiphenyl	798898	446771	-44.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	152719	-38.7
Hexabromobiphenyl	362541	262560	-27.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	20264	268.8	1	7.271	-0.002	19491	249.6
Aroclor-1016	2	7.678	-0.002	63432	260.7	2	7.872	-0.000	33045	196.2
Aroclor-1016	3	7.812	-0.001	30518	276.7	3	8.070	-0.002	17984	248.7
Aroclor-1016	4	8.423	-0.001	19792	281.5	4	8.242	-0.001	10122	266.2
Total Col1Ave (4 peaks):					271.9	Total Col2Ave (4 peaks):				240.2 RPD = 12
Corrected Ave (3 peaks):					268.7	Corrected Ave (3 peaks):				231.5 RPD = 15
CalAmt %D:					8.8	CalAmt %D:				-3.9
Aroclor-1260	1	11.056	0.000	53526	329.1	1	11.663	0.001	34966	252.3
Aroclor-1260	2	11.373	0.000	54422	323.6	2	11.925	-0.001	60063	172.7
Aroclor-1260	3	11.745	-0.001	138993	314.5	3	12.444	0.000	24006	259.2
Aroclor-1260	4	12.149	-0.001	67338	299.2	4	12.509	0.001	43945	189.6
Aroclor-1260	5	12.255	-0.000	29578	321.0	NS	---			----
Total Col1Ave (5 peaks):					317.5	Total Col2Ave (4 peaks):				218.4 RPD = 37
Corrected Ave (4 peaks):					314.6	Corrected Ave (3 peaks):				204.9 RPD = 42*
CalAmt %D:					27.0	CalAmt %D:				-12.6

Total PCB Area Col1 (5.933 - 13.804) = 1443815 Col1 Total PCB = 0.7 ppm*

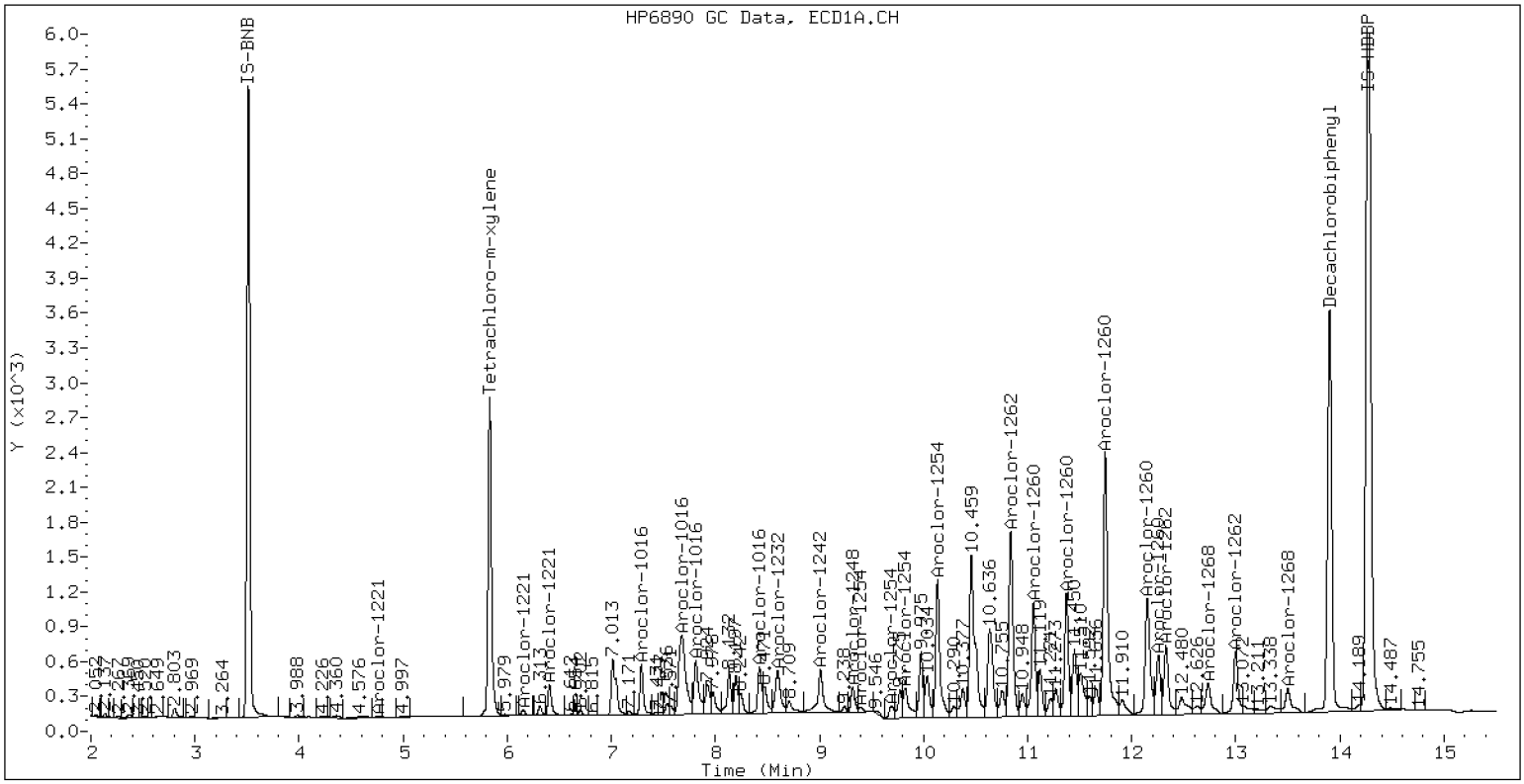
Total PCB Area Col2 (5.810 - 14.028) = 737879 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

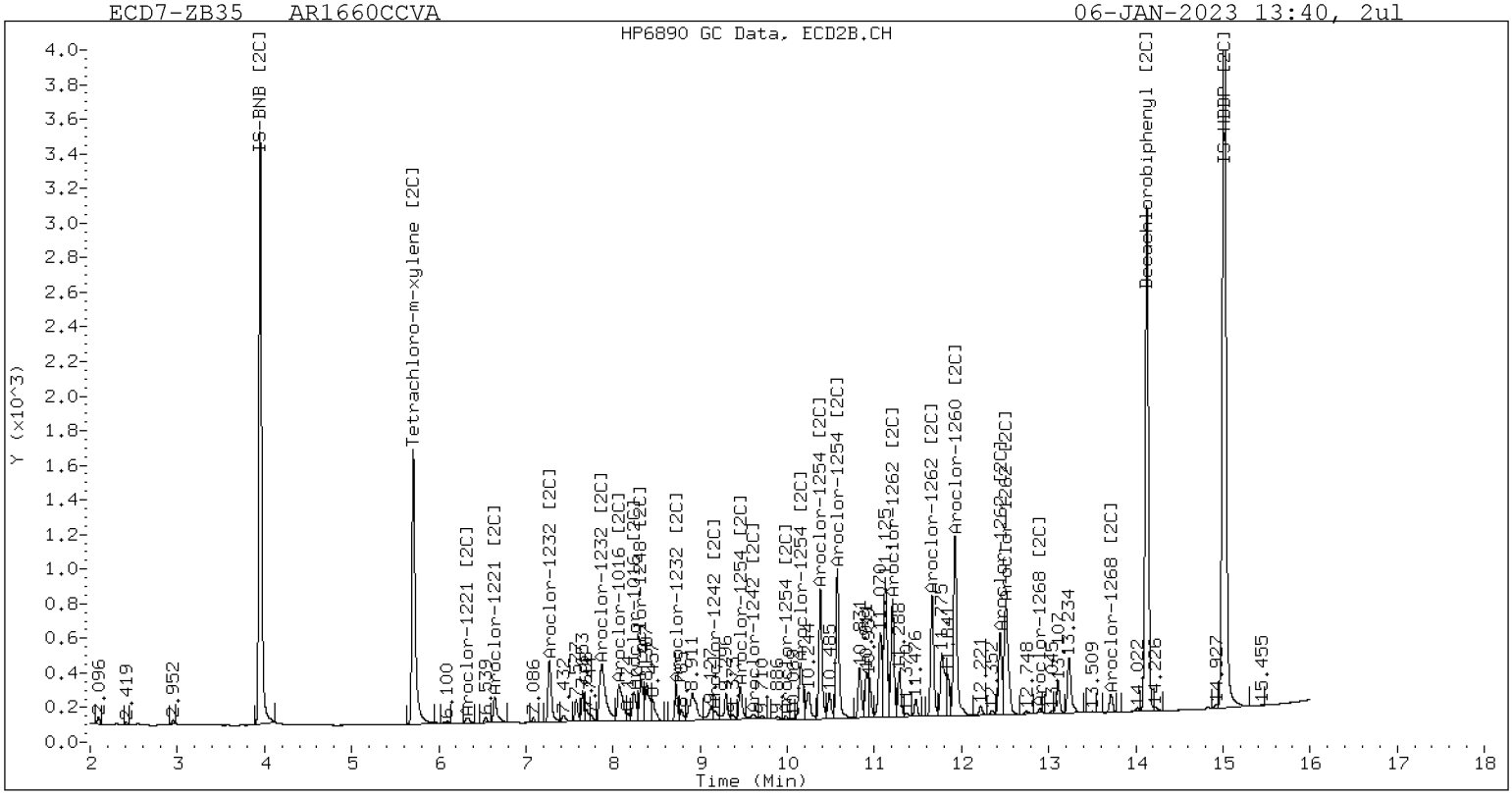
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVA 06-JAN-2023 13:40, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVA 06-JAN-2023 13:40, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052384ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVB	Injection Time:	17:32
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	255	0.0576965	0.0592055		2.0	+/-20
Aroclor-1254 (1)	A	250.00	235		0.0662601			
Aroclor-1254 (2)	A	250.00	266		0.0291167			
Aroclor-1254 (3)	A	250.00	221		0.0393178			
Aroclor-1254 (4)	A	250.00	274		0.0950152			
Aroclor-1254 (5)	A	250.00	279		0.0663176			
Aroclor 1254 [2C]	A	250.00	233	0.0638047	0.0608683		-6.9	+/-20
Aroclor-1254 (1) [2C]	A	250.00	239		0.0493351			
Aroclor-1254 (2) [2C]	A	250.00	156		0.0258635			
Aroclor-1254 (3) [2C]	A	250.00	219		0.0779495			
Aroclor-1254 (4) [2C]	A	250.00	278		0.1026867			
Aroclor-1254 (5) [2C]	A	250.00	272		0.0485064			
Decachlorobiphenyl	A	40.000	44.1	0.7333327	0.8086341		10.3	+/-20
Tetrachlorometaxylene	A	40.000	36.1	1.1336710	1.0244080		-9.8	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.4	1.1358180	1.1745710		3.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	36.3	1.0966080	0.9958349		-9.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052384ECD7.D
Data file 2: /230105.b/230105.b/01052384ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254CCVB
Client ID:
Injection Date: 06-JAN-2023 17:32
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.002	156865	5.707	-0.003	106516	36.1	36.3	0.5	Tetrachloro-m-xylene
13.902	-0.002	195161	14.128	0.001	178563	44.1	41.4	6.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	306255	-31.6
Hexabromobiphenyl	798898	482693	-39.6

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	213923	-14.1
Hexabromobiphenyl	362541	304048	-16.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
		ZB5 Col					ZB35 Col			
Aroclor-1254	1	9.314	0.001	63414	235.2	1	9.461	0.000	32981	239.1
Aroclor-1254	2	9.393	0.001	27866	265.7	2	9.978	0.000	17290	155.9
Aroclor-1254	3	9.685	0.000	37629	220.9	3	10.130	0.000	52110	218.6
Aroclor-1254	4	9.819	0.001	90934	273.9	4	10.378	0.000	68647	278.1
Aroclor-1254	5	10.176	0.001	63469	278.9	5	10.576	0.000	32427	272.4
		Total Col1Ave (5 peaks):			254.9		Total Col2Ave (5 peaks):			232.8 RPD = 9
		Corrected Ave (4 peaks):			248.9		Corrected Ave (4 peaks):			221.5 RPD = 12
			CalAmt %D:		2.0			CalAmt %D:		-6.9

Total PCB Area Col1 (5.933 - 13.804) = 935914 Col1 Total PCB = 0.3 ppm*

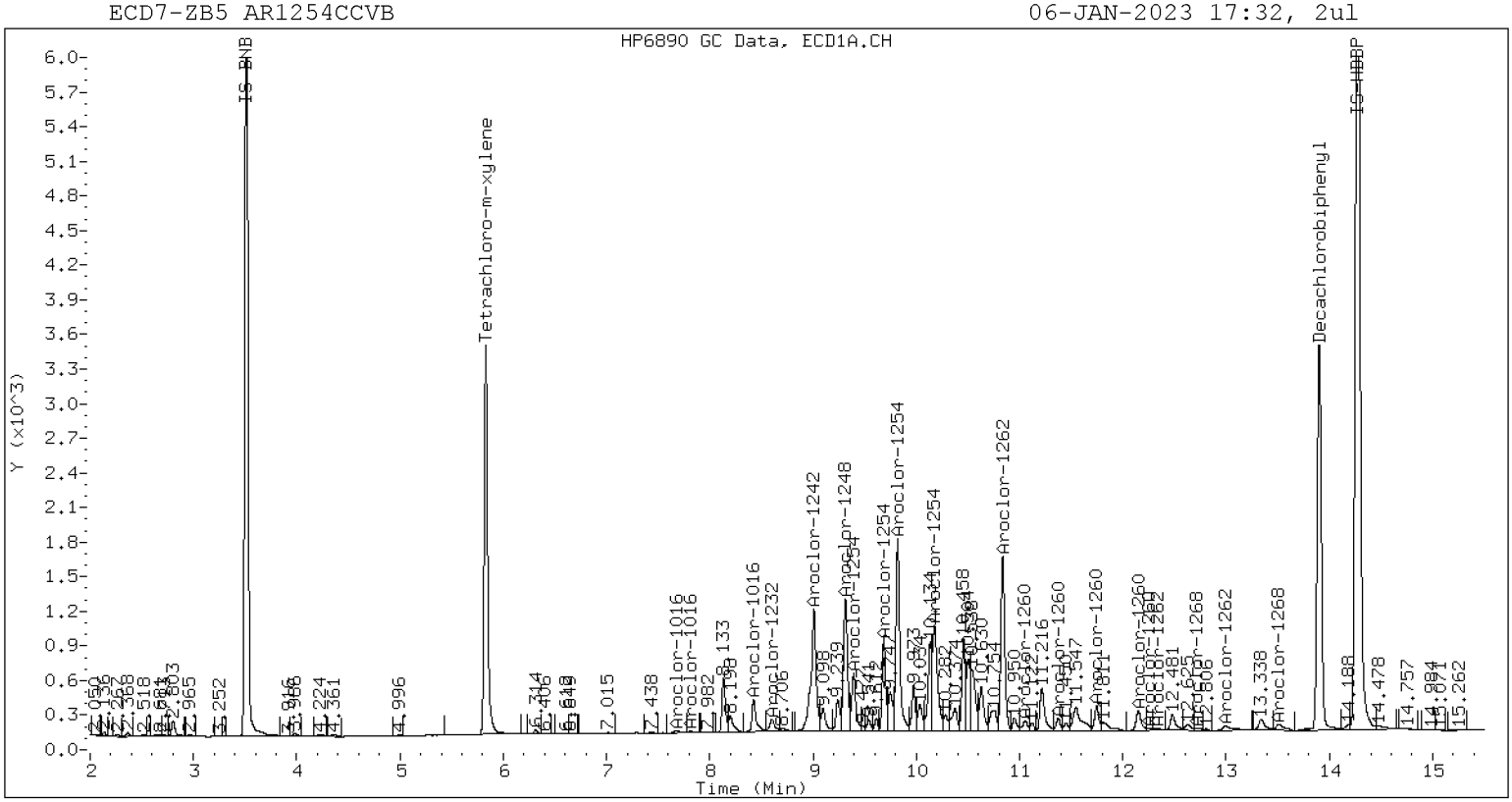
Total PCB Area Col2 (5.810 - 14.028) = 592595 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

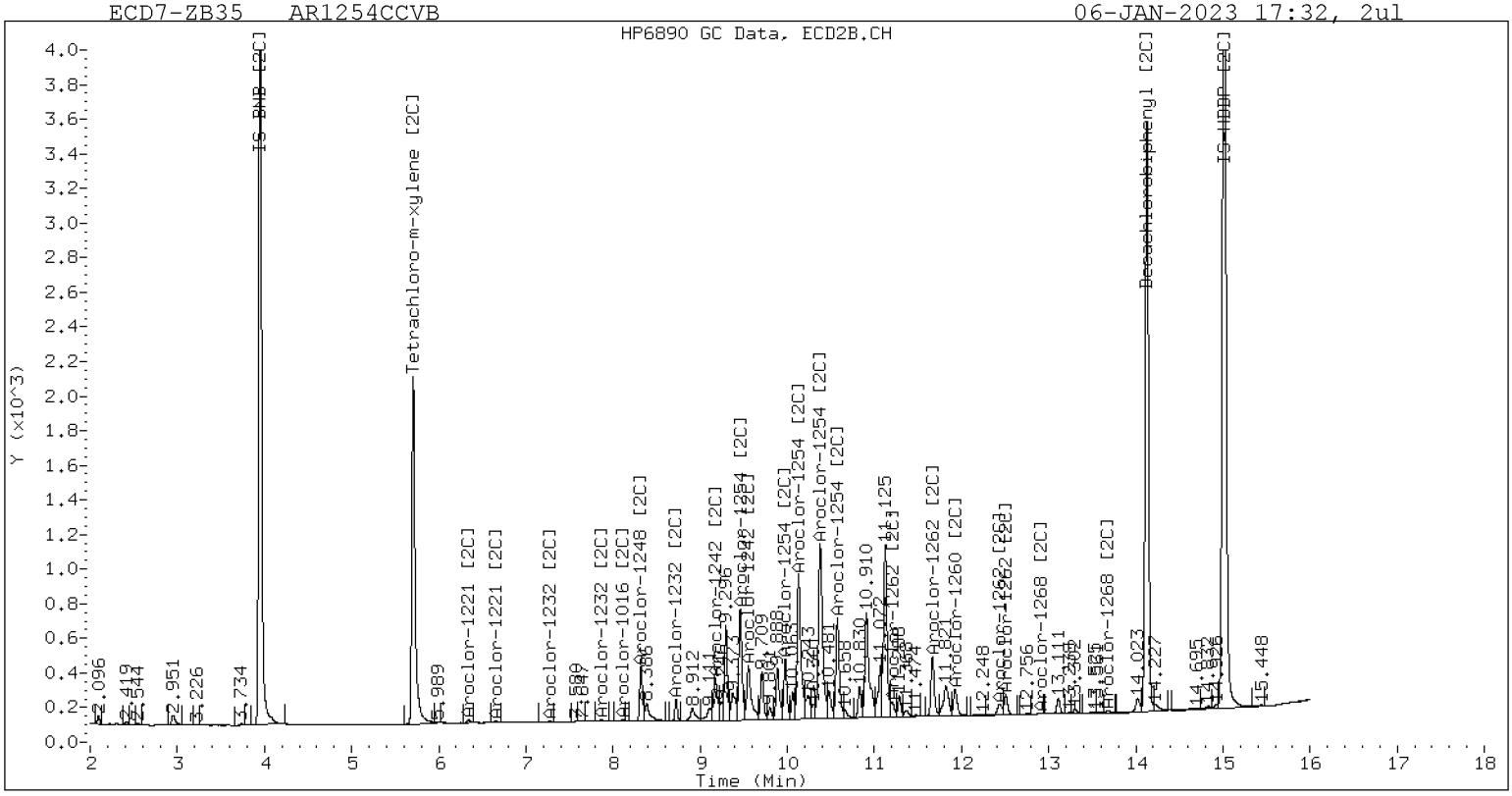
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254CCVB 06-JAN-2023 17:32, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254CCVB 06-JAN-2023 17:32, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052385ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVC	Injection Time:	17:53
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	269	0.0441939	0.0472614		7.7	+/-20	
Aroclor-1016 (1)	A	250.00	273	0.0266860	0.0291640		9.2		
Aroclor-1016 (2)	A	250.00	263	0.0861572	0.0905952		5.2		
Aroclor-1016 (3)	A	250.00	274	0.0390425	0.0427180		9.6		
Aroclor-1016 (4)	A	250.00	267	0.0248899	0.0265684		6.8		
Aroclor 1016 [2C]	A	250.00	250	0.0467310	0.0440895		0.0	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	264	0.0409030	0.0432610		5.6		
Aroclor-1016 (2) [2C]	A	250.00	205	0.0882154	0.0723812		-18.0		
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0388290		2.4		
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0218867		10.0		
Aroclor 1260	A	250.00	310	0.0390342	0.0481017		24.0	+/-20	*
Aroclor-1260 (1)	A	250.00	310	0.0291201	0.0361699		24.0		
Aroclor-1260 (2)	A	250.00	308	0.0301181	0.0371435		23.2		
Aroclor-1260 (3)	A	250.00	308	0.0791351	0.0975861		23.2		
Aroclor-1260 (4)	A	250.00	299	0.0403003	0.0481477		19.6		
Aroclor-1260 (5)	A	250.00	325	0.0164974	0.0214613		30.0		
Aroclor 1260 [2C]	A	250.00	223	0.0617619	0.0506396		-10.9	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	256	0.0422283	0.0433425		2.4		
Aroclor-1260 (2) [2C]	A	250.00	176	0.1059643	0.0746862		-29.6		
Aroclor-1260 (3) [2C]	A	250.00	266	0.0282173	0.0300587		6.4		
Aroclor-1260 (4) [2C]	A	250.00	193	0.0706376	0.0544712		-22.8		
Decachlorobiphenyl	A	40.000	46.9	0.7333327	0.8599484		17.3	+/-20	
Tetrachlorometaxylene	A	40.000	40.5	1.1336710	1.1488350		1.3	+/-20	
Decachlorobiphenyl [2C]	A	40.000	41.0	1.1358180	1.1650590		2.5	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	41.9	1.0966080	1.1499870		4.8	+/-20	

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052385ECD7.D
Data file 2: /230105.b/230105.b/01052385ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVC
Client ID:
Injection Date: 06-JAN-2023 17:53
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.001	126408	5.709	-0.001	86893	40.5	41.9	3.4	Tetrachloro-m-xylene
13.904	0.000	181327	14.128	0.000	150151	46.9	41.0	13.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	220063	-50.8 <-
Hexabromobiphenyl	798898	421716	-47.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	151120	-39.3
Hexabromobiphenyl	362541	257757	-28.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.001	20056	273.2	1	7.272	-0.001	20430	264.4
Aroclor-1016	2	7.677	-0.004	62302	262.9	2	7.872	-0.000	34182	205.1
Aroclor-1016	3	7.811	-0.001	29377	273.5	3	8.071	-0.001	18337	256.2
Aroclor-1016	4	8.424	-0.001	18271	266.9	4	8.241	-0.001	10336	274.7
Total Col1Ave (4 peaks):					269.1	Total Col2Ave (4 peaks):				250.1 RPD = 7
Corrected Ave (3 peaks):					267.7	Corrected Ave (3 peaks):				241.9 RPD = 10
CalAmt %D:					7.6	CalAmt %D:				0.0
Aroclor-1260	1	11.055	-0.000	47667	310.5	1	11.662	-0.001	34912	256.6
Aroclor-1260	2	11.372	-0.000	48950	308.3	2	11.924	-0.002	60159	176.2
Aroclor-1260	3	11.745	-0.001	128605	308.3	3	12.444	0.001	24212	266.3
Aroclor-1260	4	12.149	-0.001	63452	298.7	4	12.508	0.000	43876	192.8
Aroclor-1260	5	12.255	-0.000	28283	325.2	NS	---			----
Total Col1Ave (5 peaks):					310.2	Total Col2Ave (4 peaks):				223.0 RPD = 33
Corrected Ave (4 peaks):					306.5	Corrected Ave (3 peaks):				208.5 RPD = 38
CalAmt %D:					24.1	CalAmt %D:				-10.8

Total PCB Area Col1 (5.933 - 13.804) = 1290684 Col1 Total PCB = 0.6 ppm*

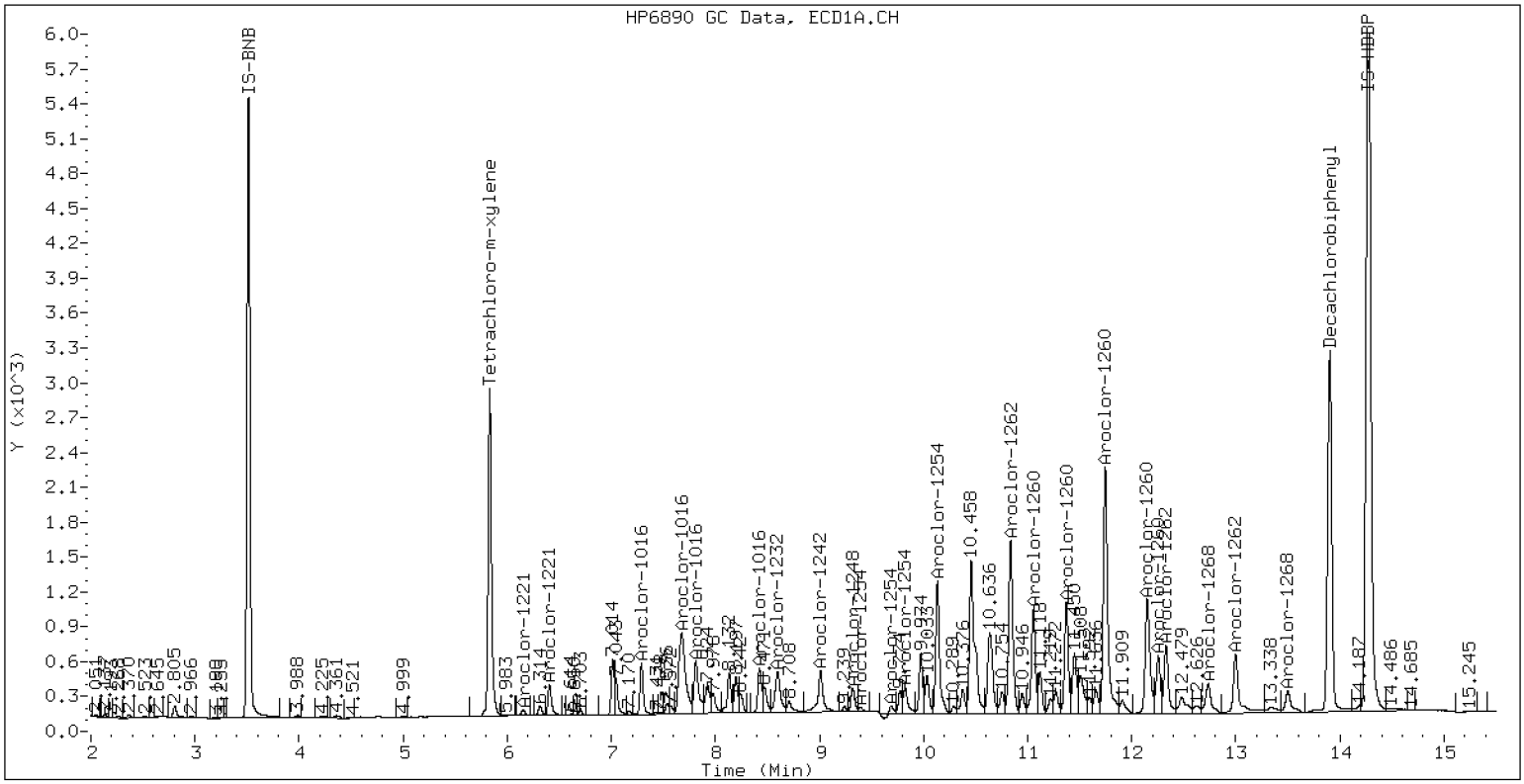
Total PCB Area Col2 (5.810 - 14.028) = 741861 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

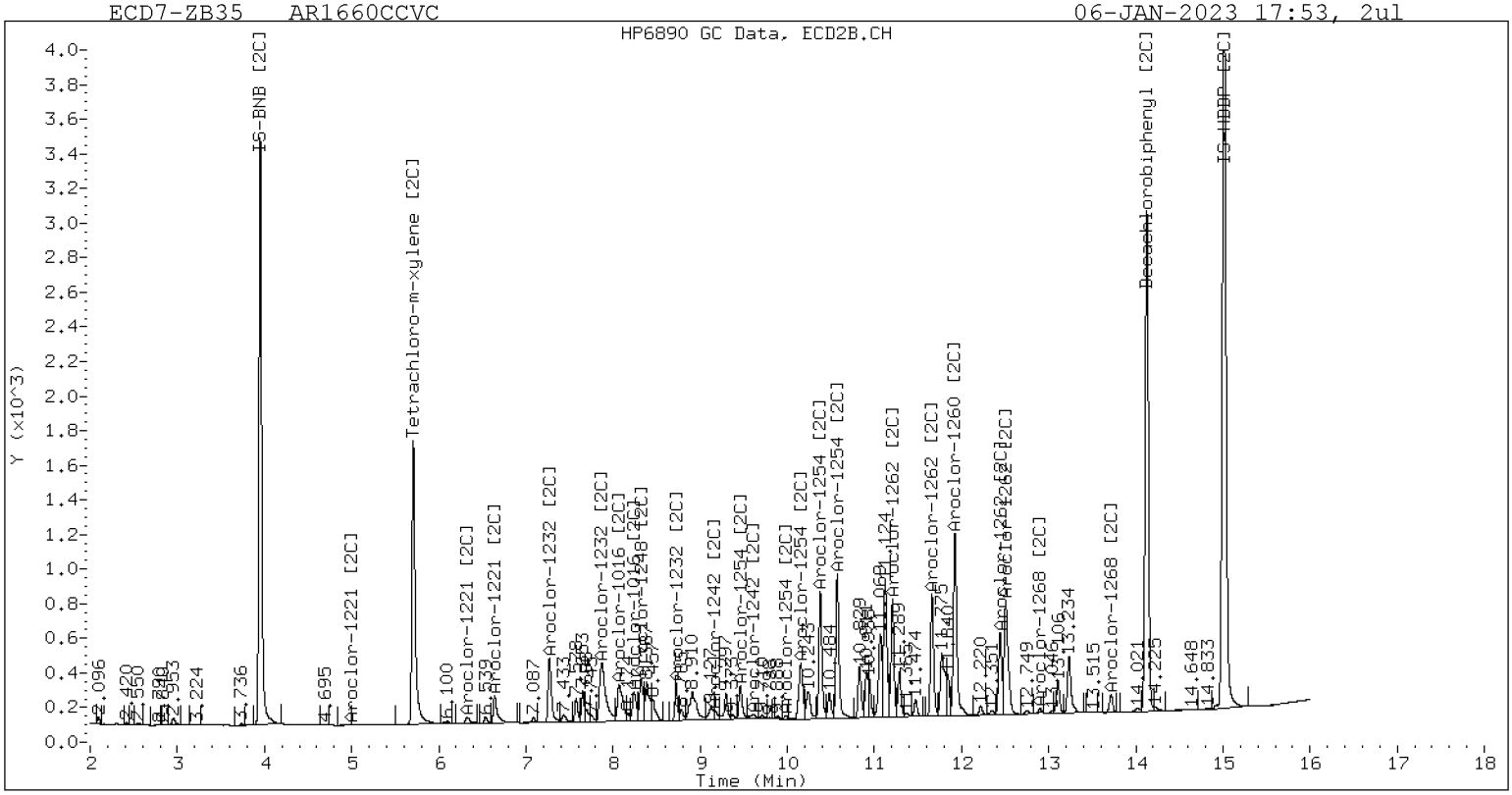
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVC 06-JAN-2023 17:53, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVC 06-JAN-2023 17:53, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052392ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVD	Injection Time:	20:21
Sequence Name:	AR1248CCVD		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	265	0.0490062	0.0536587		6.1	+/-20
Aroclor-1248 (1)	A	250.00	285		0.0392750			
Aroclor-1248 (2)	A	250.00	307		0.0539291			
Aroclor-1248 (3)	A	250.00	303		0.0957740			
Aroclor-1248 (4)	A	250.00	166		0.0256568			
Aroclor 1248 [2C]	A	250.00	259	0.0394876	0.0413866		3.4	+/-20
Aroclor-1248 (1) [2C]	A	250.00	266		0.0347484			
Aroclor-1248 (2) [2C]	A	250.00	195		0.0267774			
Aroclor-1248 (3) [2C]	A	250.00	290		0.0485348			
Aroclor-1248 (4) [2C]	A	250.00	283		0.0554859			
Decachlorobiphenyl	A	40.000	44.6	0.7333327	0.8179595		11.5	+/-20
Tetrachlorometaxylene	A	40.000	36.4	1.1336710	1.0303150		-9.0	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.2	1.1358180	1.1715930		3.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.3	1.0966080	1.0235560		-6.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

AR1248CCVD

Data file 1: /230105.b/01052392ECD7.D
Data file 2: /230105.b/230105.b/01052392ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248CCVD
Client ID:
Injection Date: 06-JAN-2023 20:21
Report Date: 01/13/2023 11:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.002	166773	5.708	-0.002	113041	36.4	37.3	2.7	Tetrachloro-m-xylene
13.902	-0.000	243664	14.128	0.001	206621	44.6	41.3	7.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	323732	-27.7
Hexabromobiphenyl	798898	595785	-25.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	220879	-11.3
Hexabromobiphenyl	362541	352718	-2.7

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.422	-0.001	39733	285.5	1	8.321	0.000	23985	265.8
Aroclor-1248	2	8.598	-0.001	54558	307.0	2	8.725	-0.001	18483	194.8
Aroclor-1248	3	9.017	-0.000	96891	303.1	3	9.172	-0.001	33501	290.2
Aroclor-1248	4	9.310	-0.002	25956	165.7	4	9.592	-0.000	38299	282.6
Total Col1Ave (4 peaks):					265.3	Total Col2Ave (4 peaks):				258.3 RPD = 3
Corrected Ave (3 peaks):					251.4	Corrected Ave (3 peaks):				247.7 RPD = 1
CalAmt %D:					6.1	CalAmt %D:				3.3

Total PCB Area Col1 (5.933 - 13.802) = 927706 Col1 Total PCB = 0.3 ppm*

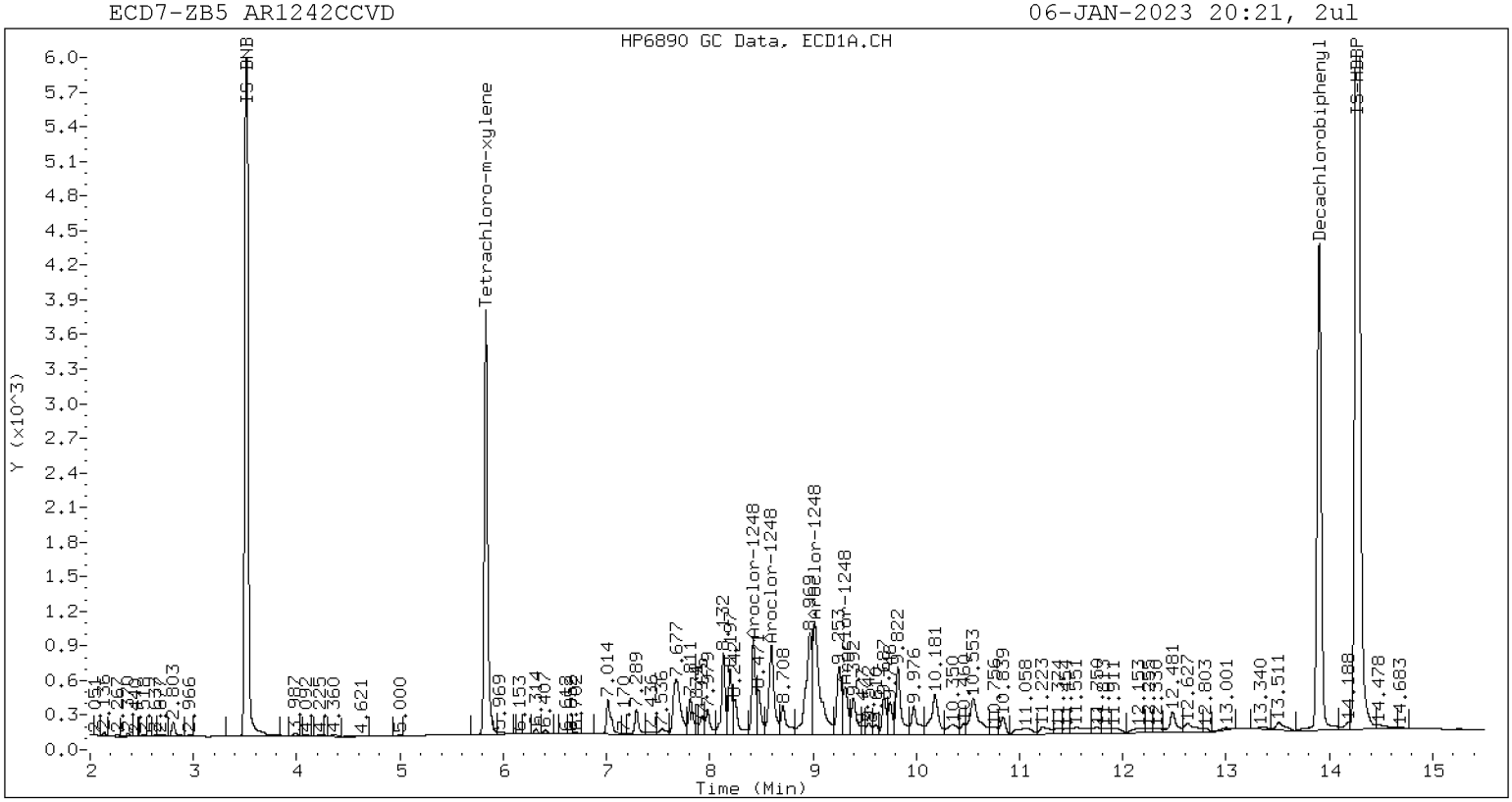
Total PCB Area Col2 (5.810 - 14.028) = 463637 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

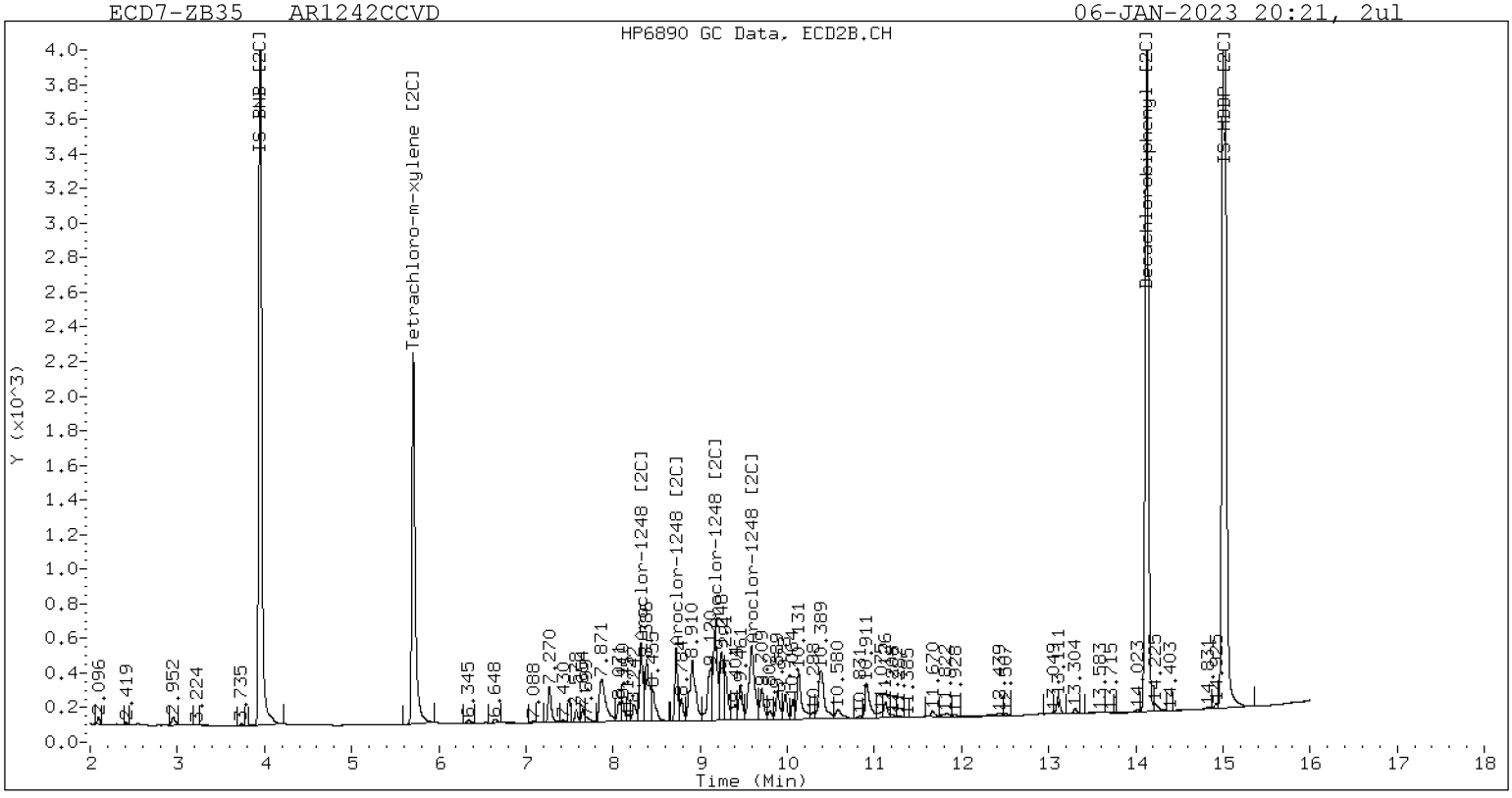
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242CCVD 06-JAN-2023 20:21, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242CCVD 06-JAN-2023 20:21, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01052393ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0096	Injection Date:	01/06/23
Lab Sample ID:	SLA0096-CCVE	Injection Time:	20:42
Sequence Name:	AR1660CCVE		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF		
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT	
Aroclor 1016	A	250.00	278	0.0441939	0.0484052		11.0	+/-20	
Aroclor-1016 (1)	A	250.00	273	0.0266860	0.0291000		9.2		
Aroclor-1016 (2)	A	250.00	267	0.0861572	0.0919557		6.8		
Aroclor-1016 (3)	A	250.00	279	0.0390425	0.0435823		11.6		
Aroclor-1016 (4)	A	250.00	291	0.0248899	0.0289829		16.4		
Aroclor 1016 [2C]	A	250.00	247	0.0467310	0.0434824		-1.2	+/-20	
Aroclor-1016 (1) [2C]	A	250.00	258	0.0409030	0.0422839		3.2		
Aroclor-1016 (2) [2C]	A	250.00	202	0.0882154	0.0713281		-19.2		
Aroclor-1016 (3) [2C]	A	250.00	253	0.0378846	0.0384131		1.2		
Aroclor-1016 (4) [2C]	A	250.00	275	0.0199212	0.0219044		10.0		
Aroclor 1260	A	250.00	316	0.0390342	0.0488894		26.2	+/-20	*
Aroclor-1260 (1)	A	250.00	324	0.0291201	0.0377734		29.6		
Aroclor-1260 (2)	A	250.00	318	0.0301181	0.0382805		27.2		
Aroclor-1260 (3)	A	250.00	311	0.0791351	0.0984380		24.4		
Aroclor-1260 (4)	A	250.00	301	0.0403003	0.0485753		20.4		
Aroclor-1260 (5)	A	250.00	324	0.0164974	0.0213796		29.6		
Aroclor 1260 [2C]	A	250.00	217	0.0617619	0.0491487		-13.3	+/-20	
Aroclor-1260 (1) [2C]	A	250.00	253	0.0422283	0.0426844		1.2		
Aroclor-1260 (2) [2C]	A	250.00	170	0.1059643	0.0720918		-32.0		
Aroclor-1260 (3) [2C]	A	250.00	258	0.0282173	0.0291493		3.2		
Aroclor-1260 (4) [2C]	A	250.00	186	0.0706376	0.0526691		-25.6		
Decachlorobiphenyl	A	40.000	47.0	0.7333327	0.8623745		17.5	+/-20	
Tetrachlorometaxylene	A	40.000	39.4	1.1336710	1.1165900		-1.5	+/-20	
Decachlorobiphenyl [2C]	A	40.000	40.5	1.1358180	1.1506640		1.3	+/-20	
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1050210		0.8	+/-20	

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230105.b/01052393ECD7.D
Data file 2: /230105.b/230105.b/01052393ECD7.D
Method: \\target\share\chem4\ecd7.i\230105.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660CCVE
Client ID:
Injection Date: 06-JAN-2023 20:42
Report Date: 01/10/2023 11:53
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	0.000	126556	5.710	0.000	86374	39.4	40.3	2.3	Tetrachloro-m-xylene
13.902	-0.002	197545	14.128	0.000	156194	47.0	40.5	14.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	226683	-49.4
Hexabromobiphenyl	798898	458142	-42.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	156330	-37.2
Hexabromobiphenyl	362541	271485	-25.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	0.001	20614	272.6	1	7.272	0.000	20657	258.4
Aroclor-1016	2	7.678	-0.002	65140	266.8	2	7.872	0.000	34846	202.1
Aroclor-1016	3	7.813	0.000	30873	279.1	3	8.072	0.000	18766	253.5
Aroclor-1016	4	8.424	-0.000	20531	291.1	4	8.242	0.000	10701	274.9
Total Col1Ave (4 peaks):					277.4	Total Col2Ave (4 peaks):				247.2 RPD = 11
Corrected Ave (3 peaks):					272.8	Corrected Ave (3 peaks):				238.0 RPD = 14
CalAmt %D:					11.0	CalAmt %D:				-1.1
Aroclor-1260	1	11.055	-0.000	54080	324.3	1	11.663	0.000	36213	252.7
Aroclor-1260	2	11.372	-0.000	54806	317.8	2	11.926	0.000	61162	170.1
Aroclor-1260	3	11.746	-0.000	140933	311.0	3	12.443	0.000	24730	258.3
Aroclor-1260	4	12.149	-0.001	69545	301.3	4	12.508	0.000	44684	186.4
Aroclor-1260	5	12.255	-0.001	30609	324.0	NS	---			----
Total Col1Ave (5 peaks):					315.7	Total Col2Ave (4 peaks):				216.9 RPD = 37
Corrected Ave (4 peaks):					313.5	Corrected Ave (3 peaks):				203.1 RPD = 43*
CalAmt %D:					26.3	CalAmt %D:				-13.3

Total PCB Area Col1 (5.933 - 13.804) = 1463756 Col1 Total PCB = 0.7 ppm*

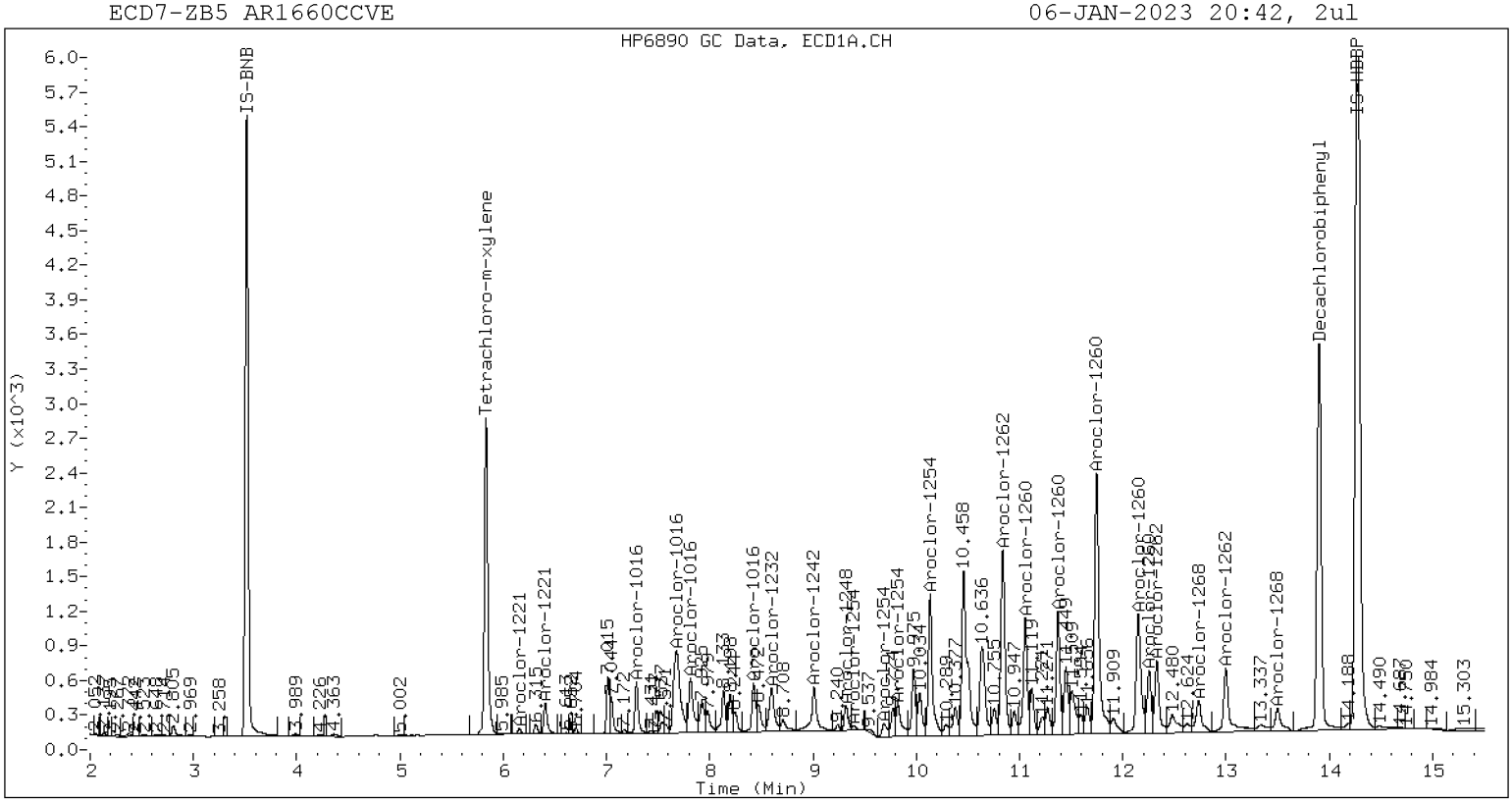
Total PCB Area Col2 (5.810 - 14.028) = 764316 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

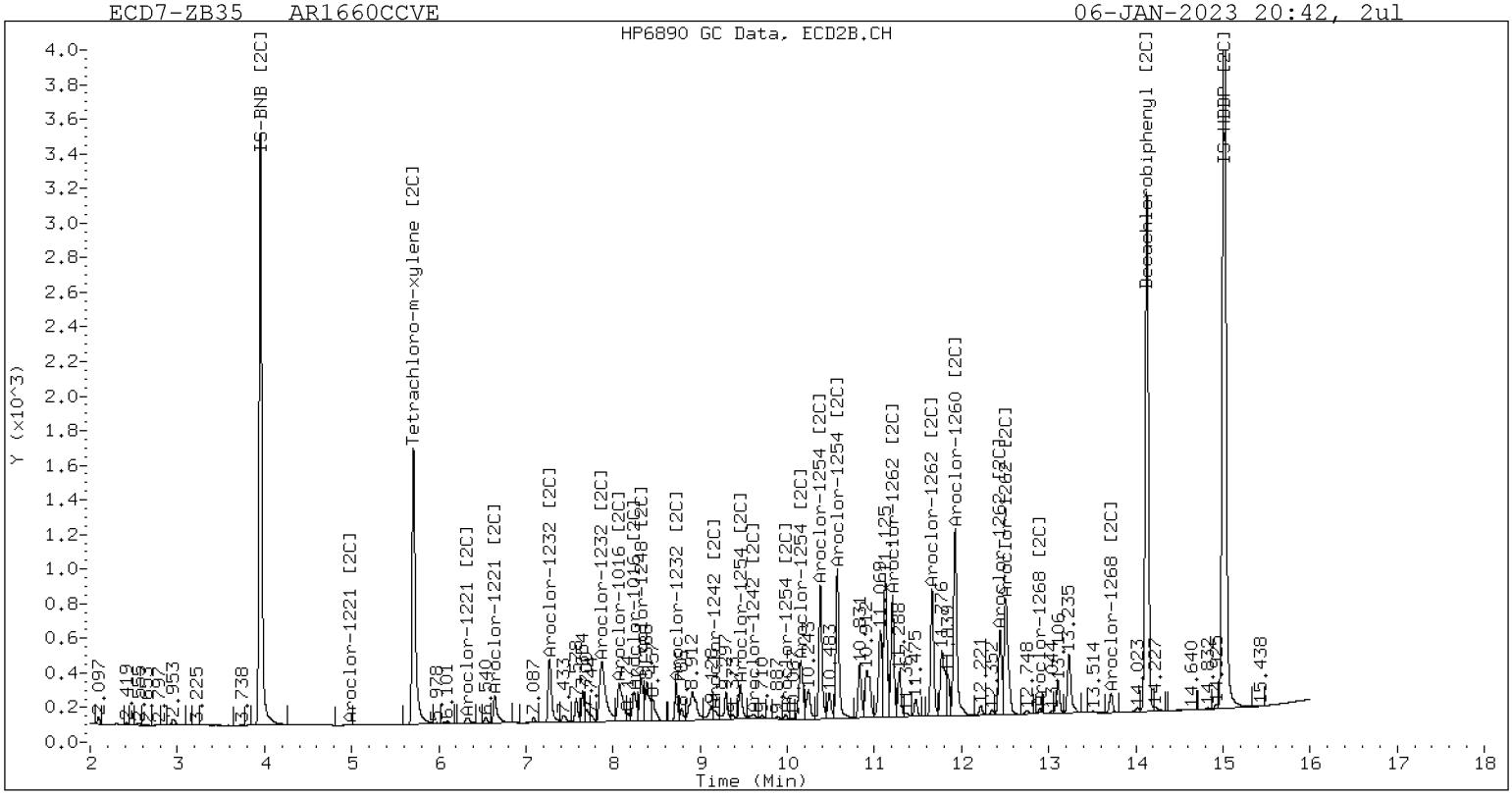
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660CCVE 06-JAN-2023 20:42, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660CCVE 06-JAN-2023 20:42, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092318ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-CCV1	Injection Time:	15:02
Sequence Name:	AR1248CCV1		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	272	0.0490062	0.0538685		8.8	+/-20
Aroclor-1248 (1)	A	250.00	259		0.0356471			
Aroclor-1248 (2)	A	250.00	265		0.0465024			
Aroclor-1248 (3)	A	250.00	285		0.0901357			
Aroclor-1248 (4)	A	250.00	279		0.0431888			
Aroclor 1248 [2C]	A	250.00	269	0.0394876	0.0427904		7.7	+/-20
Aroclor-1248 (1) [2C]	A	250.00	262		0.0342840			
Aroclor-1248 (2) [2C]	A	250.00	253		0.0347401			
Aroclor-1248 (3) [2C]	A	250.00	282		0.0471610			
Aroclor-1248 (4) [2C]	A	250.00	280		0.0549765			
Decachlorobiphenyl	A	40.000	39.5	0.7333327	0.7236410		-1.3	+/-20
Tetrachlorometaxylene	A	40.000	37.3	1.1336710	1.0580100		-6.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	39.2	1.1358180	1.1138000		-1.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.1	1.0966080	1.0160300		-7.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092318ECD7.D
Data file 2: /230109.b/230109.b/01092318ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248-CCV1
Client ID:
Injection Date: 09-JAN-2023 15:02
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	239141	5.708	-0.006	160393	37.3	37.1	0.7	Tetrachloro-m-xylene
13.903	-0.005	416641	14.127	-0.010	348943	39.5	39.2	0.6	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	452058	1.0
Hexabromobiphenyl	798898	1151513	44.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	315725	26.7
Hexabromobiphenyl	362541	626581	72.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.425	-0.003	50358	259.1	1	8.322	-0.005	33826	262.3
Aroclor-1248	2	8.602	-0.002	65693	264.7	2	8.728	-0.004	34276	252.7
Aroclor-1248	3	9.015	-0.008	127333	285.2	3	9.177	-0.001	46531	282.0
Aroclor-1248	4	9.308	-0.003	61012	279.0	4	9.601	-0.001	54242	280.0
Total Col1Ave (4 peaks): 272.0						Total Col2Ave (4 peaks): 269.2			RPD = 1	
Corrected Ave (3 peaks): 267.6						Corrected Ave (3 peaks): 265.0			RPD = 1	

Total PCB Area Col1 (5.936 - 13.808) = 990566 Col1 Total PCB = 0.2 ppm*

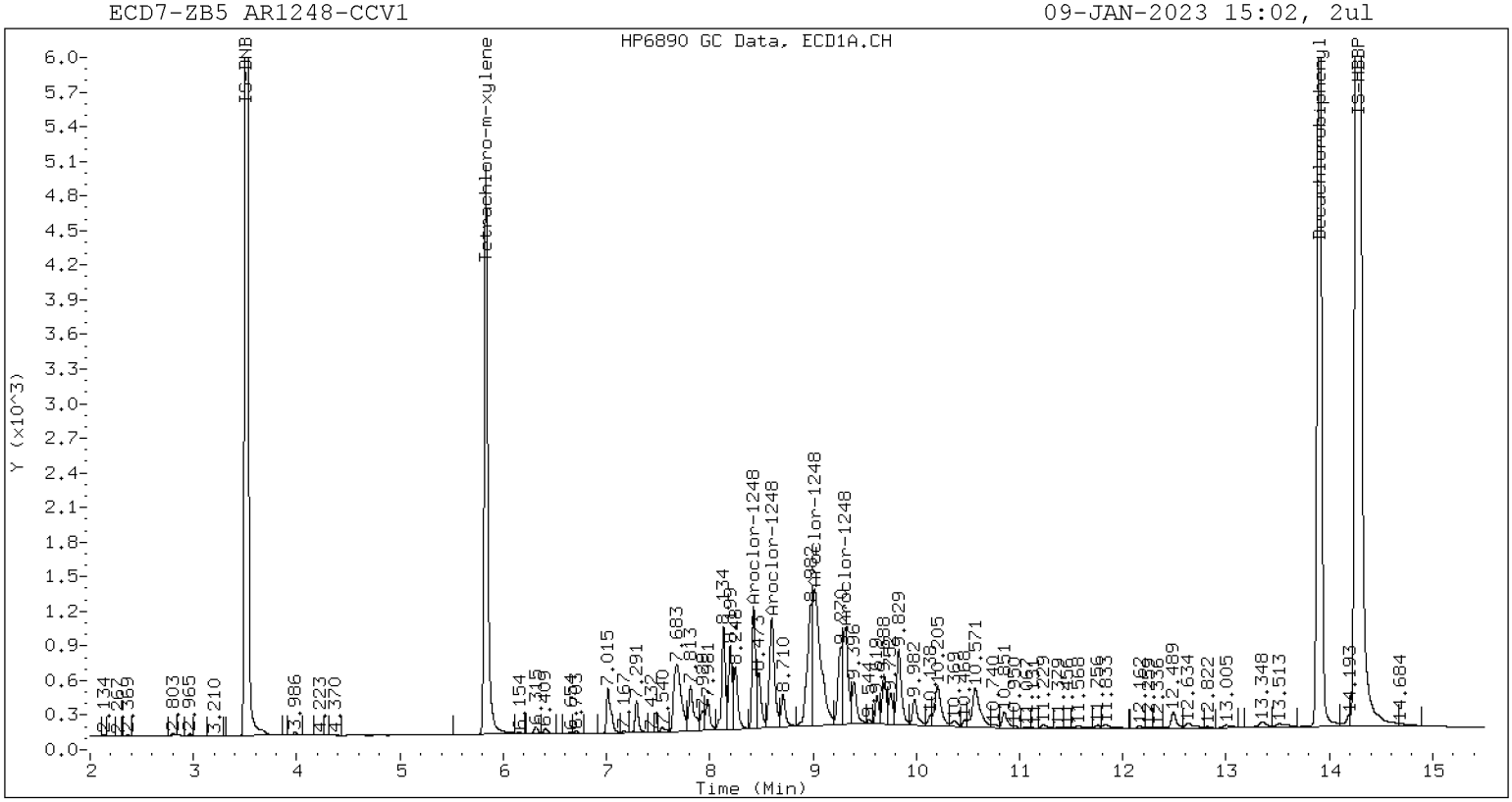
Total PCB Area Col2 (5.813 - 14.037) = 714178 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

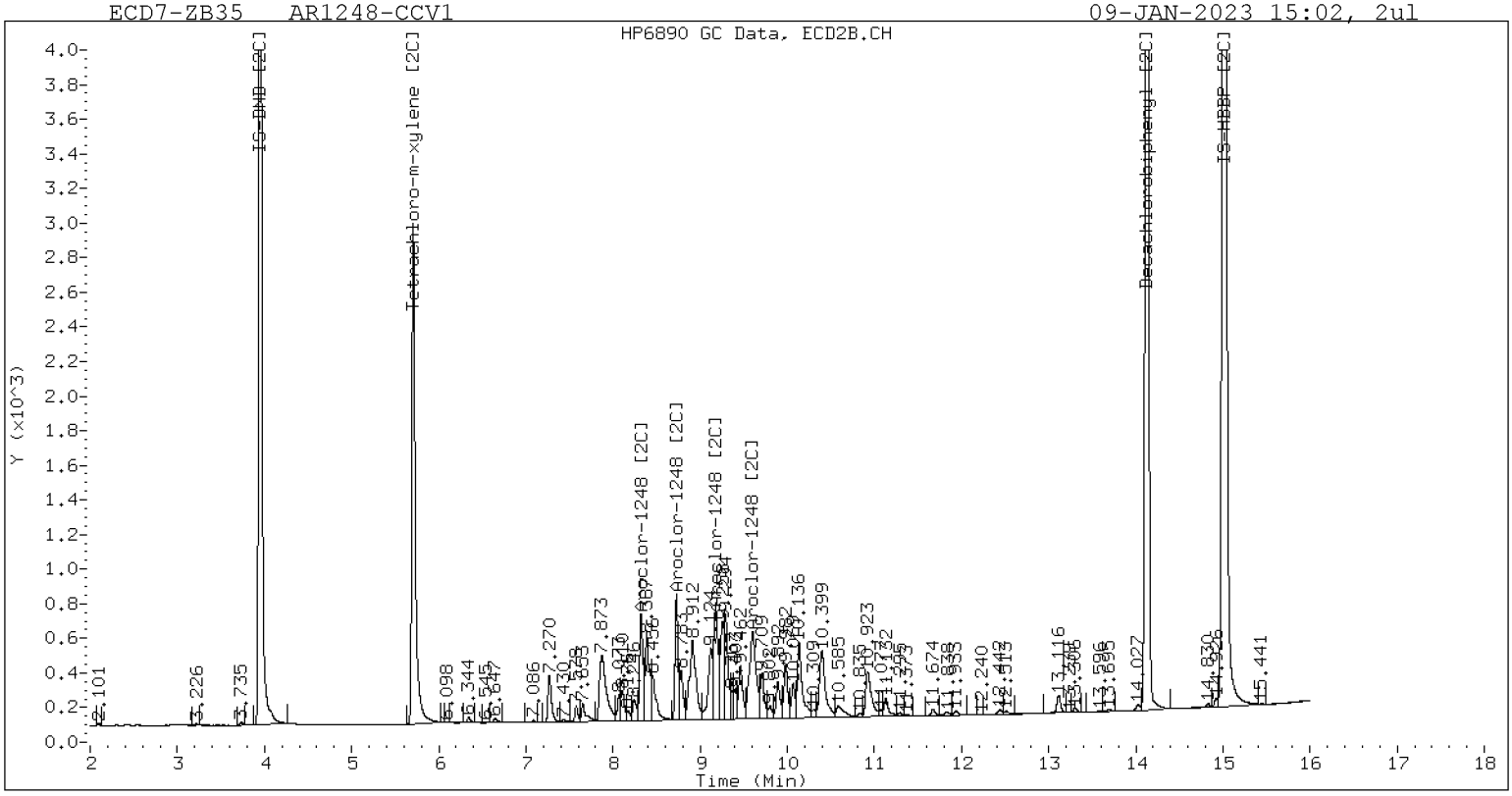
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248-CCV1 09-JAN-2023 15:02, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1248-CCV1 09-JAN-2023 15:02, 2ul

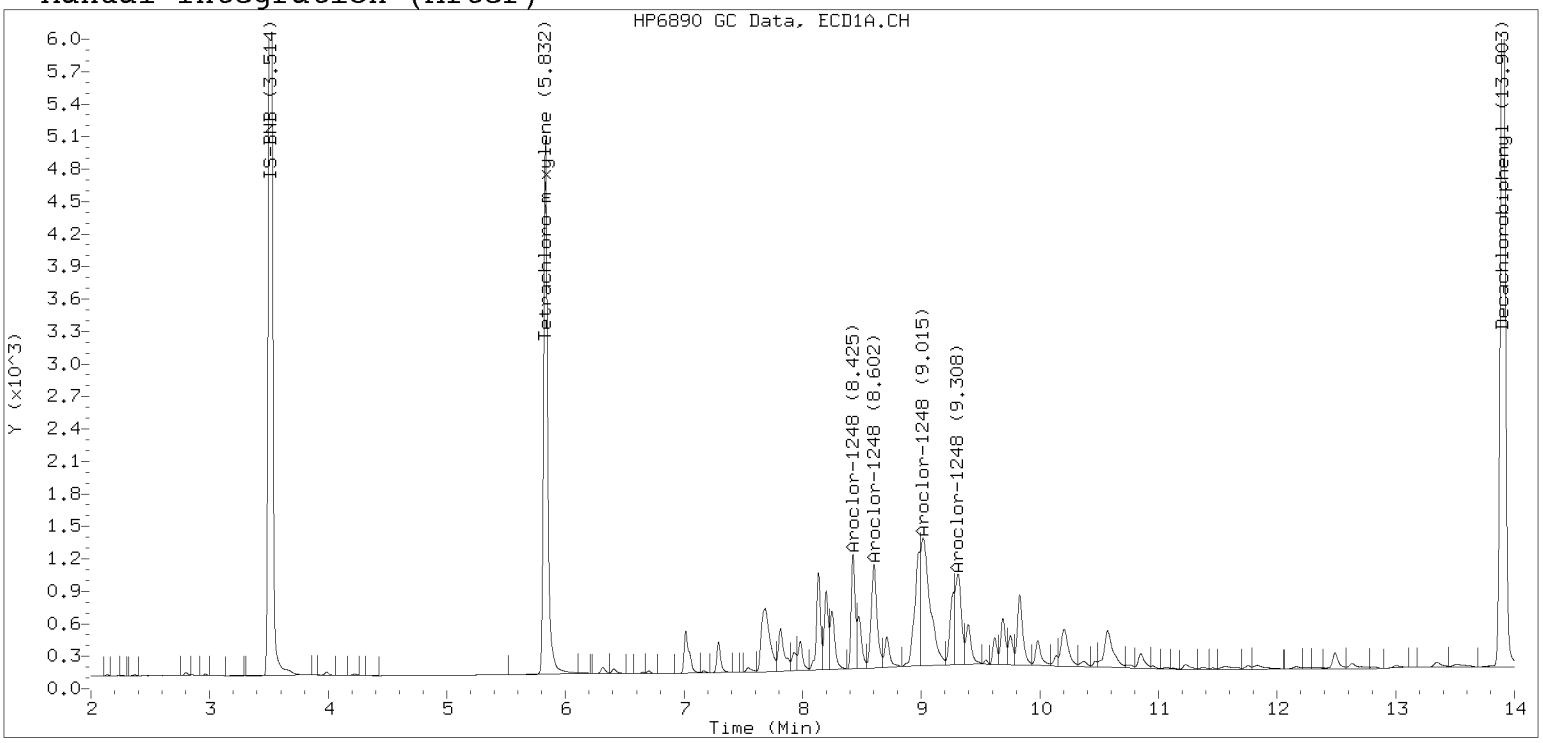


ZB-35 Manual Integration: NO

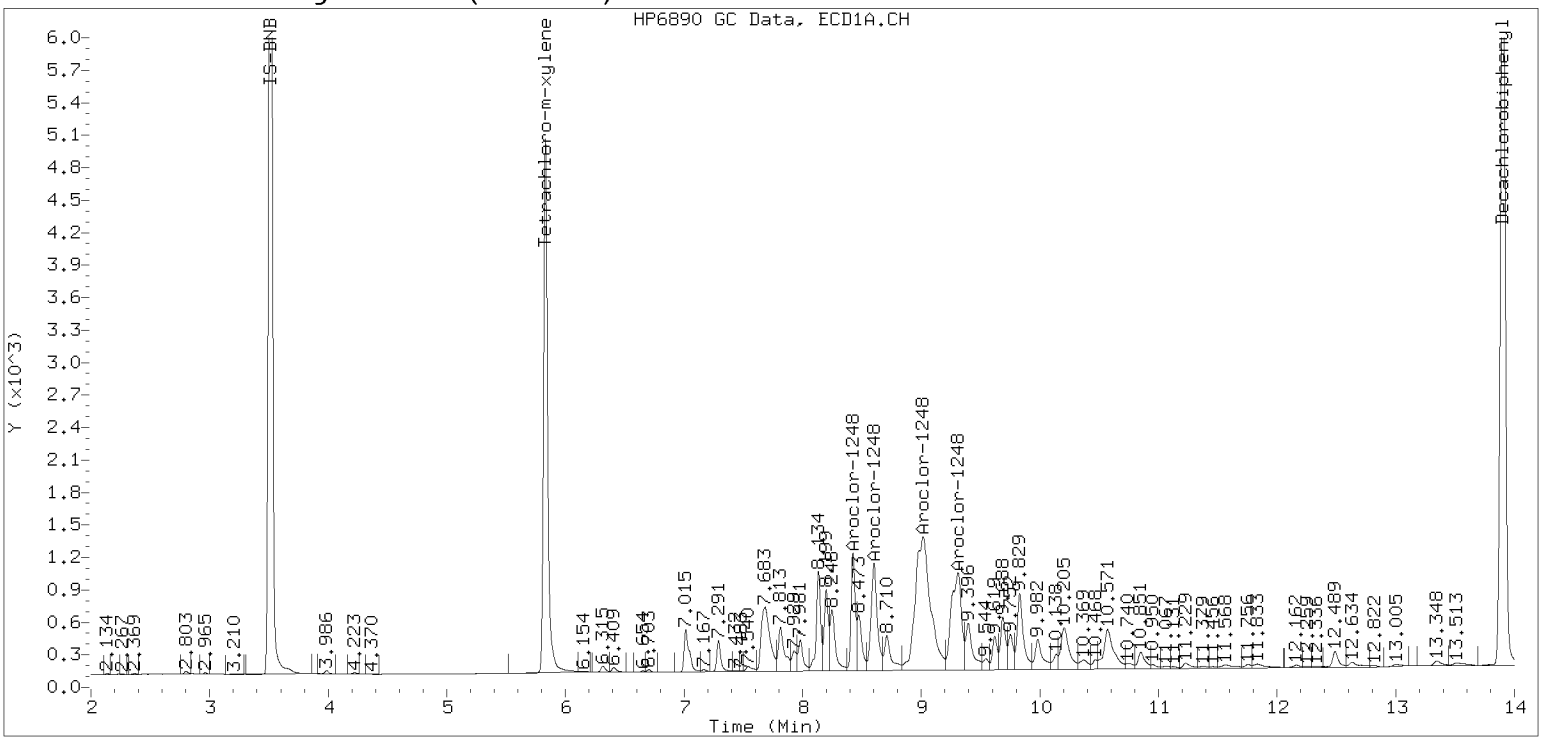
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230109.b/01092318ECD7.D Injection Date: 09-JAN-2023 15:02

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092319ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-CCV2	Injection Time:	15:23
Sequence Name:	AR1660CCV2		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	273	0.0441939	0.0477978		9.1	+/-20
Aroclor-1016 (1)	A	250.00	267	0.0266860	0.0285433		7.0	
Aroclor-1016 (2)	A	250.00	264	0.0861572	0.0908512		5.4	
Aroclor-1016 (3)	A	250.00	283	0.0390425	0.0442334		13.3	
Aroclor-1016 (4)	A	250.00	277	0.0248899	0.0275633		10.7	
Aroclor 1016 [2C]	A	250.00	252	0.0467310	0.0469608		0.6	+/-20
Aroclor-1016 (1) [2C]	A	250.00	248	0.0409030	0.0405621		-0.8	
Aroclor-1016 (2) [2C]	A	250.00	252	0.0882154	0.0889378		0.8	
Aroclor-1016 (3) [2C]	A	250.00	251	0.0378846	0.0379611		0.2	
Aroclor-1016 (4) [2C]	A	250.00	256	0.0199212	0.0203824		2.3	
Aroclor 1260	A	250.00	240	0.0390342	0.0374701		-4.1	+/-20
Aroclor-1260 (1)	A	250.00	229	0.0291201	0.0267242		-8.2	
Aroclor-1260 (2)	A	250.00	238	0.0301181	0.0286350		-4.9	
Aroclor-1260 (3)	A	250.00	243	0.0791351	0.0768425		-2.9	
Aroclor-1260 (4)	A	250.00	240	0.0403003	0.0387387		-3.9	
Aroclor-1260 (5)	A	250.00	249	0.0164974	0.0164103		-0.5	
Aroclor 1260 [2C]	A	250.00	230	0.0617619	0.0574419		-7.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	222	0.0422283	0.0375411		-11.1	
Aroclor-1260 (2) [2C]	A	250.00	234	0.1059643	0.0991637		-6.4	
Aroclor-1260 (3) [2C]	A	250.00	226	0.0282173	0.0254593		-9.8	
Aroclor-1260 (4) [2C]	A	250.00	239	0.0706376	0.0676036		-4.3	
Decachlorobiphenyl	A	40.000	40.6	0.7333327	0.7445515		1.5	+/-20
Tetrachlorometaxylene	A	40.000	41.7	1.1336710	1.1806860		4.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.1	1.1358180	1.1392230		0.3	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.3	1.0966080	1.1048770		0.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092319ECD7.D
Data file 2: /230109.b/230109.b/01092319ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCV2
Client ID:
Injection Date: 09-JAN-2023 15:23
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.833	-0.004	276813	5.709	-0.005	180454	41.7	40.3	3.3	Tetrachloro-m-xylene
13.903	-0.005	451257	14.127	-0.010	366716	40.6	40.1	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468902	4.7
Hexabromobiphenyl	798898	1212158	51.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	326650	31.1
Hexabromobiphenyl	362541	643800	77.6

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.005	41825	267.4	1	7.272	-0.003	41405	247.9
Aroclor-1016	2	7.681	-0.004	133126	263.6	2	7.873	0.003	90786	252.0
Aroclor-1016	3	7.813	-0.005	64816	283.2	3	8.071	0.001	38750	250.5
Aroclor-1016	4	8.424	-0.005	40389	276.9	4	8.242	0.001	20806	255.8
	Total Col1Ave (4 peaks):				272.8	Total Col2Ave (4 peaks):				251.6 RPD = 8
	Corrected Ave (3 peaks):				269.3	Corrected Ave (3 peaks):				250.2 RPD = 7
Aroclor-1260	1	11.058	-0.004	101231	229.4	1	11.663	-0.006	75528	222.3
Aroclor-1260	2	11.375	-0.002	108469	237.7	2	11.927	-0.006	199505	234.0
Aroclor-1260	3	11.749	-0.003	291079	242.8	3	12.445	-0.007	51221	225.6
Aroclor-1260	4	12.154	-0.004	146742	240.3	4	12.511	-0.006	136010	239.3
Aroclor-1260	5	12.257	-0.005	62162	248.7	NS	---			----
	Total Col1Ave (5 peaks):				239.8	Total Col2Ave (4 peaks):				230.3 RPD = 4
	Corrected Ave (4 peaks):				237.5	Corrected Ave (3 peaks):				227.3 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 2827931 Col1 Total PCB = 0.6 ppm*

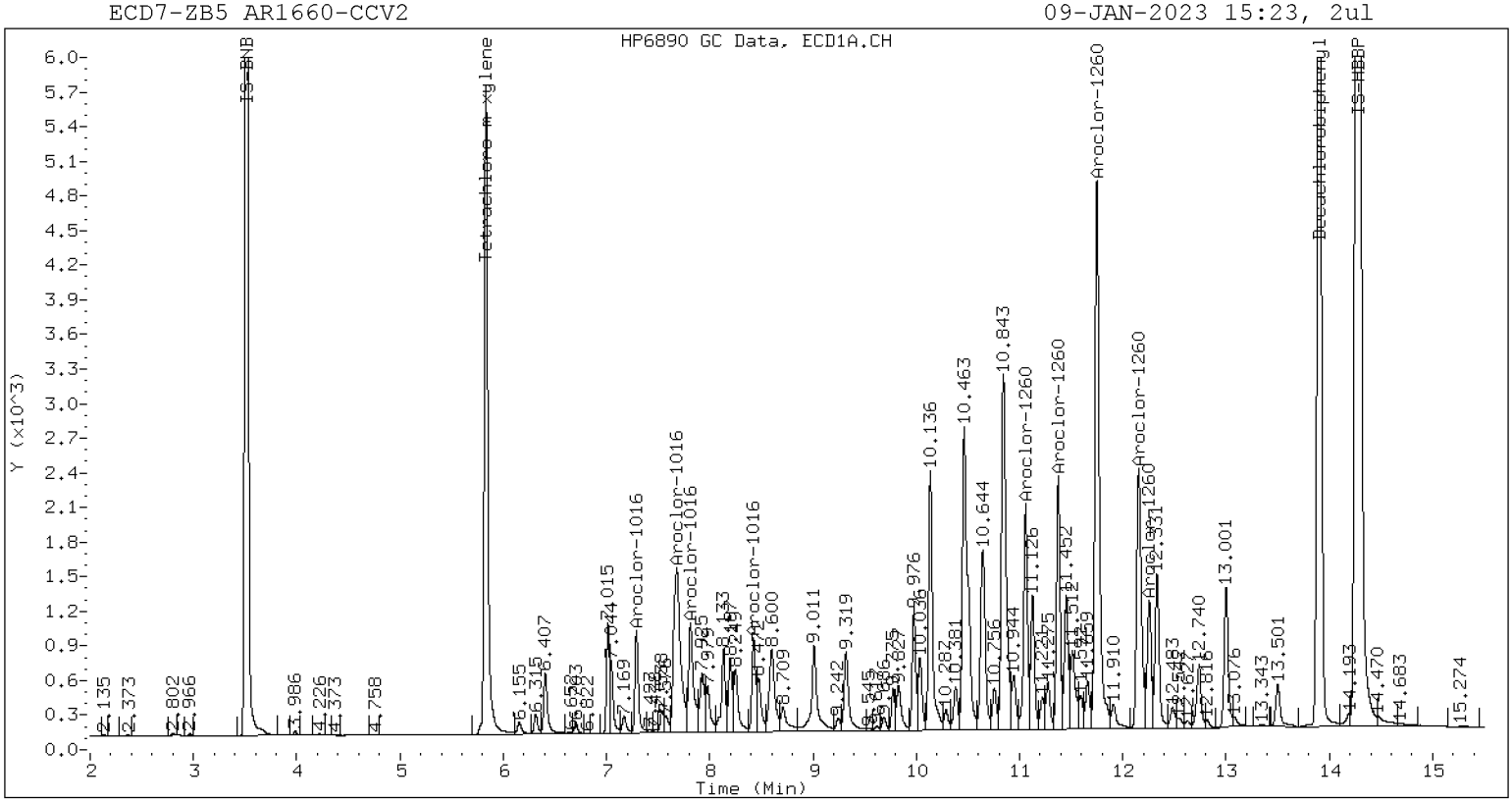
Total PCB Area Col2 (5.813 - 14.037) = 1778330 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

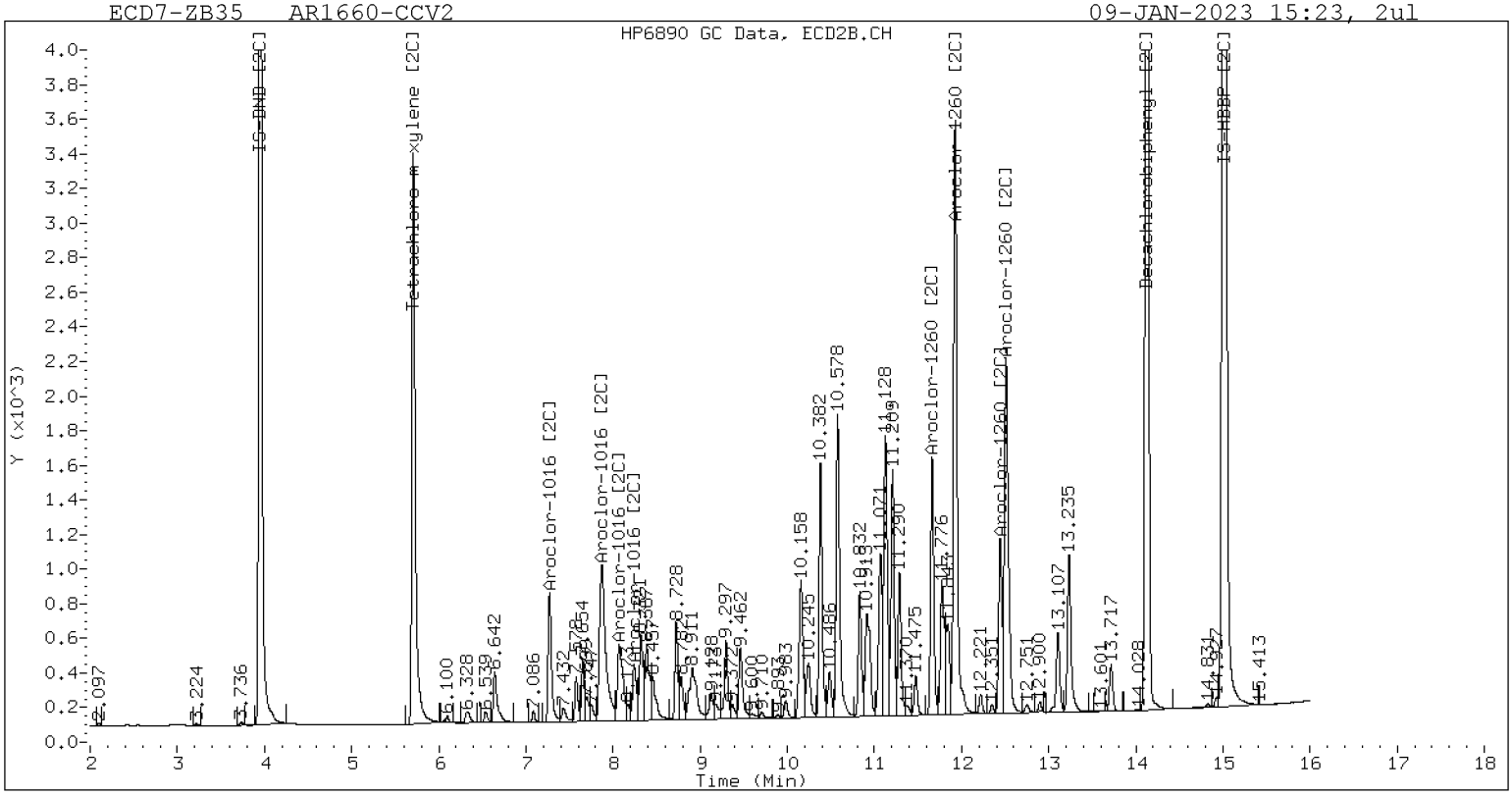
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCV2 09-JAN-2023 15:23, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCV2 09-JAN-2023 15:23, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092332ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-CCV3	Injection Time:	19:57
Sequence Name:	AR1242CCV3		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	267	0.0396000	0.0422981		6.9	+/-20
Aroclor-1242 (1)	A	250.00	263		0.0238233			
Aroclor-1242 (2)	A	250.00	256		0.0738284			
Aroclor-1242 (3)	A	250.00	259		0.0214483			
Aroclor-1242 (4)	A	250.00	291		0.0500925			
Aroclor 1242 [2C]	A	250.00	260	0.0391981	0.0407017		4.2	+/-20
Aroclor-1242 (1) [2C]	A	250.00	257		0.0348467			
Aroclor-1242 (2) [2C]	A	250.00	258		0.0741538			
Aroclor-1242 (3) [2C]	A	250.00	262		0.0243255			
Aroclor-1242 (4) [2C]	A	250.00	264		0.0294808			
Decachlorobiphenyl	A	40.000	40.8	0.7333327	0.7471032		1.9	+/-20
Tetrachlorometaxylene	A	40.000	39.0	1.1336710	1.1042940		-2.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.4	1.1358180	1.2031480		5.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.5	1.0966080	1.0283100		-6.2	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092332ECD7.D
Data file 2: /230109.b/230109.b/01092332ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242-CCV3
Client ID:
Injection Date: 09-JAN-2023 19:57
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.834	-0.003	246690	5.710	-0.004	164073	39.0	37.5	3.8	Tetrachloro-m-xylene
13.903	-0.004	213707	14.127	-0.010	230670	40.8	42.4	3.9	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	446783	-0.2
Hexabromobiphenyl	798898	572095	-28.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	319112	28.1
Hexabromobiphenyl	362541	383444	5.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.290	-0.005	33262	262.7	1	7.272	-0.005	34750	257.3
Aroclor-1242	2	7.679	-0.006	103079	256.4	2	7.872	-0.002	73948	257.9
Aroclor-1242	3	8.424	-0.005	29946	258.9	3	9.177	-0.001	24258	262.3
Aroclor-1242	4	9.023	-0.008	69939	291.1	4	9.602	-0.004	29399	264.4
Total Col1Ave (4 peaks): 267.3						Total Col2Ave (4 peaks): 260.5			RPD = 3	
Corrected Ave (3 peaks): 259.3						Corrected Ave (3 peaks): 259.2			RPD = 0	

Total PCB Area Col1 (5.936 - 13.808) = 787002 Col1 Total PCB = 0.2 ppm*

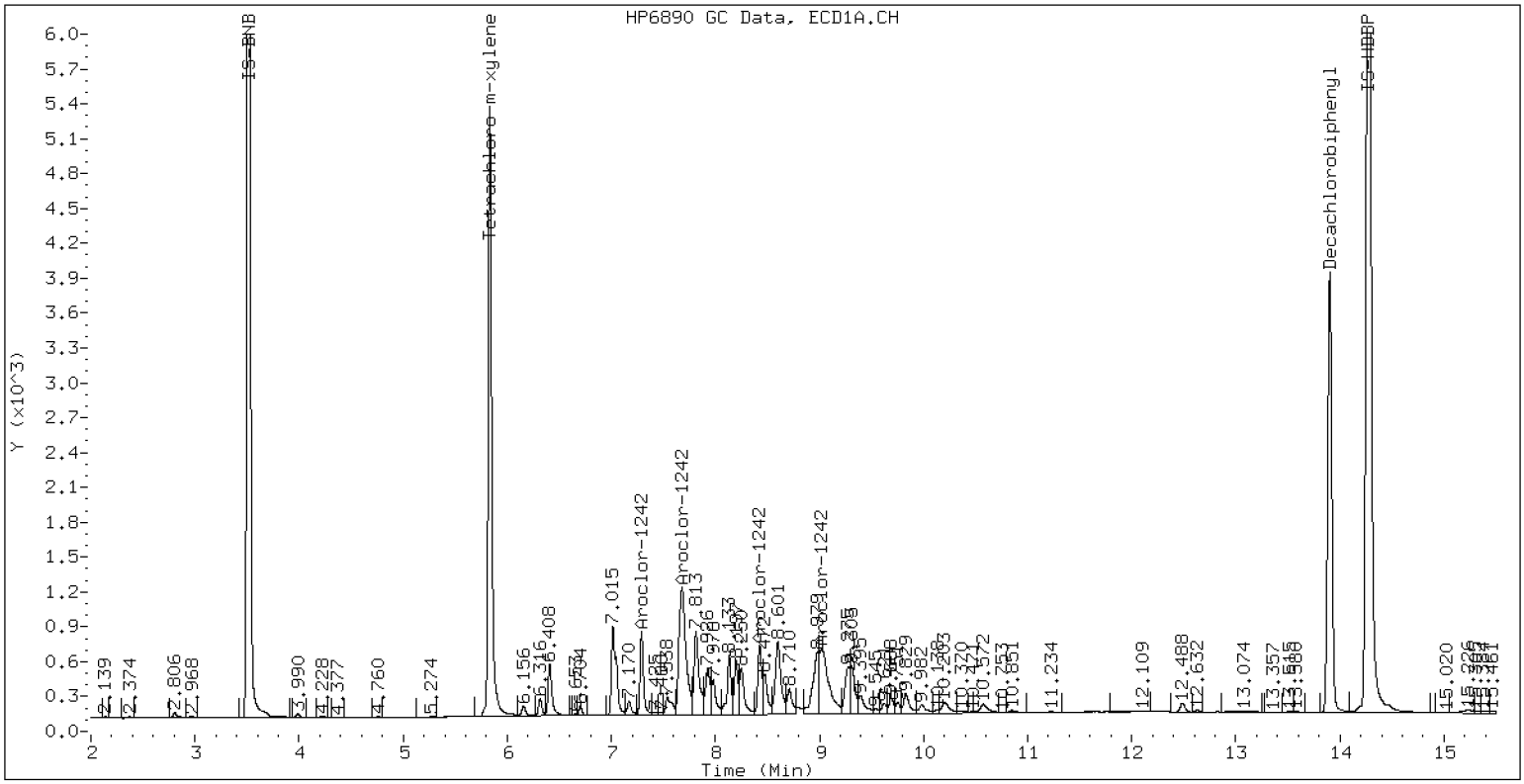
Total PCB Area Col2 (5.813 - 14.037) = 539053 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

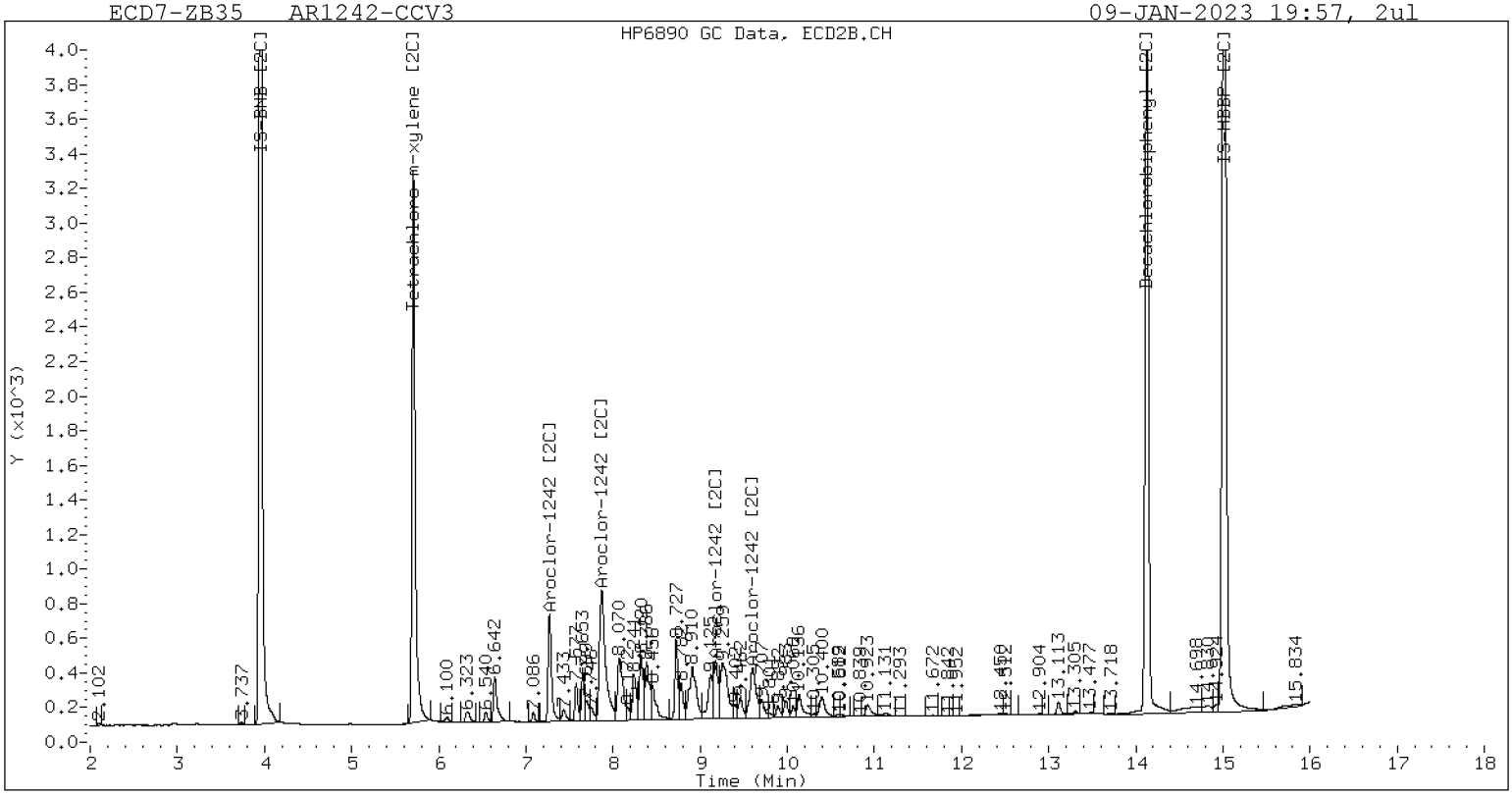
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242-CCV3 09-JAN-2023 19:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242-CCV3 09-JAN-2023 19:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092333ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/09/23
Lab Sample ID:	SLA0129-CCV4	Injection Time:	20:19
Sequence Name:	AR1660CCV4		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	273	0.0441939	0.0481376		9.1	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290571		8.9	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0928979		7.8	
Aroclor-1016 (3)	A	250.00	281	0.0390425	0.0438286		12.3	
Aroclor-1016 (4)	A	250.00	269	0.0248899	0.0267668		7.5	
Aroclor 1016 [2C]	A	250.00	260	0.0467310	0.0484559		3.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	259	0.0409030	0.0423468		3.5	
Aroclor-1016 (2) [2C]	A	250.00	260	0.0882154	0.0915760		3.8	
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0388136		2.5	
Aroclor-1016 (4) [2C]	A	250.00	265	0.0199212	0.0210871		5.9	
Aroclor 1260	A	250.00	294	0.0390342	0.0461726		17.8	+/-20
Aroclor-1260 (1)	A	250.00	301	0.0291201	0.0350377		20.3	
Aroclor-1260 (2)	A	250.00	312	0.0301181	0.0375559		24.7	
Aroclor-1260 (3)	A	250.00	298	0.0791351	0.0942365		19.1	
Aroclor-1260 (4)	A	250.00	283	0.0403003	0.0456060		13.2	
Aroclor-1260 (5)	A	250.00	279	0.0164974	0.0184270		11.7	
Aroclor 1260 [2C]	A	250.00	288	0.0617619	0.0716406		15.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	286	0.0422283	0.0483557		14.5	
Aroclor-1260 (2) [2C]	A	250.00	295	0.1059643	0.1251615		18.1	
Aroclor-1260 (3) [2C]	A	250.00	281	0.0282173	0.0317339		12.5	
Aroclor-1260 (4) [2C]	A	250.00	288	0.0706376	0.0813112		15.1	
Decachlorobiphenyl	A	40.000	42.9	0.7333327	0.7868561		7.3	+/-20
Tetrachlorometaxylene	A	40.000	43.5	1.1336710	1.2328650		8.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.4	1.1358180	1.2036430		6.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	42.1	1.0966080	1.1532200		5.2	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092333ECD7.D
Data file 2: /230109.b/230109.b/01092333ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCV4
Client ID:
Injection Date: 09-JAN-2023 20:19
Report Date: 01/14/2023 11:52
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	286630	5.707	-0.006	190298	43.5	42.1	3.4	Tetrachloro-m-xylene
13.902	-0.006	272277	14.127	-0.010	262021	42.9	42.4	1.2	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	464982	3.9
Hexabromobiphenyl	798898	692063	-13.4

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330029	32.5
Hexabromobiphenyl	362541	435380	20.1

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	42222	272.2	1	7.271	-0.004	43674	258.8
Aroclor-1016	2	7.676	-0.008	134987	269.6	2	7.870	-0.001	94446	259.5
Aroclor-1016	3	7.811	-0.007	63686	280.6	3	8.069	-0.001	40030	256.1
Aroclor-1016	4	8.422	-0.007	38894	268.9	4	8.240	-0.001	21748	264.6
Total Col1Ave (4 peaks):					272.8	Total Col2Ave (4 peaks):				259.8 RPD = 5
Corrected Ave (3 peaks):					270.2	Corrected Ave (3 peaks):				258.2 RPD = 5
Aroclor-1260	1	11.057	-0.005	75776	300.8	1	11.662	-0.007	65791	286.3
Aroclor-1260	2	11.374	-0.004	81222	311.7	2	11.925	-0.007	170290	295.3
Aroclor-1260	3	11.747	-0.005	203805	297.7	3	12.443	-0.008	43176	281.2
Aroclor-1260	4	12.151	-0.007	98632	282.9	4	12.509	-0.007	110629	287.8
Aroclor-1260	5	12.255	-0.007	39852	279.2	NS	---			----
Total Col1Ave (5 peaks):					294.5	Total Col2Ave (4 peaks):				287.6 RPD = 2
Corrected Ave (4 peaks):					290.2	Corrected Ave (3 peaks):				285.1 RPD = 2

Total PCB Area Col1 (5.936 - 13.808) = 2214314 Col1 Total PCB = 0.5 ppm*

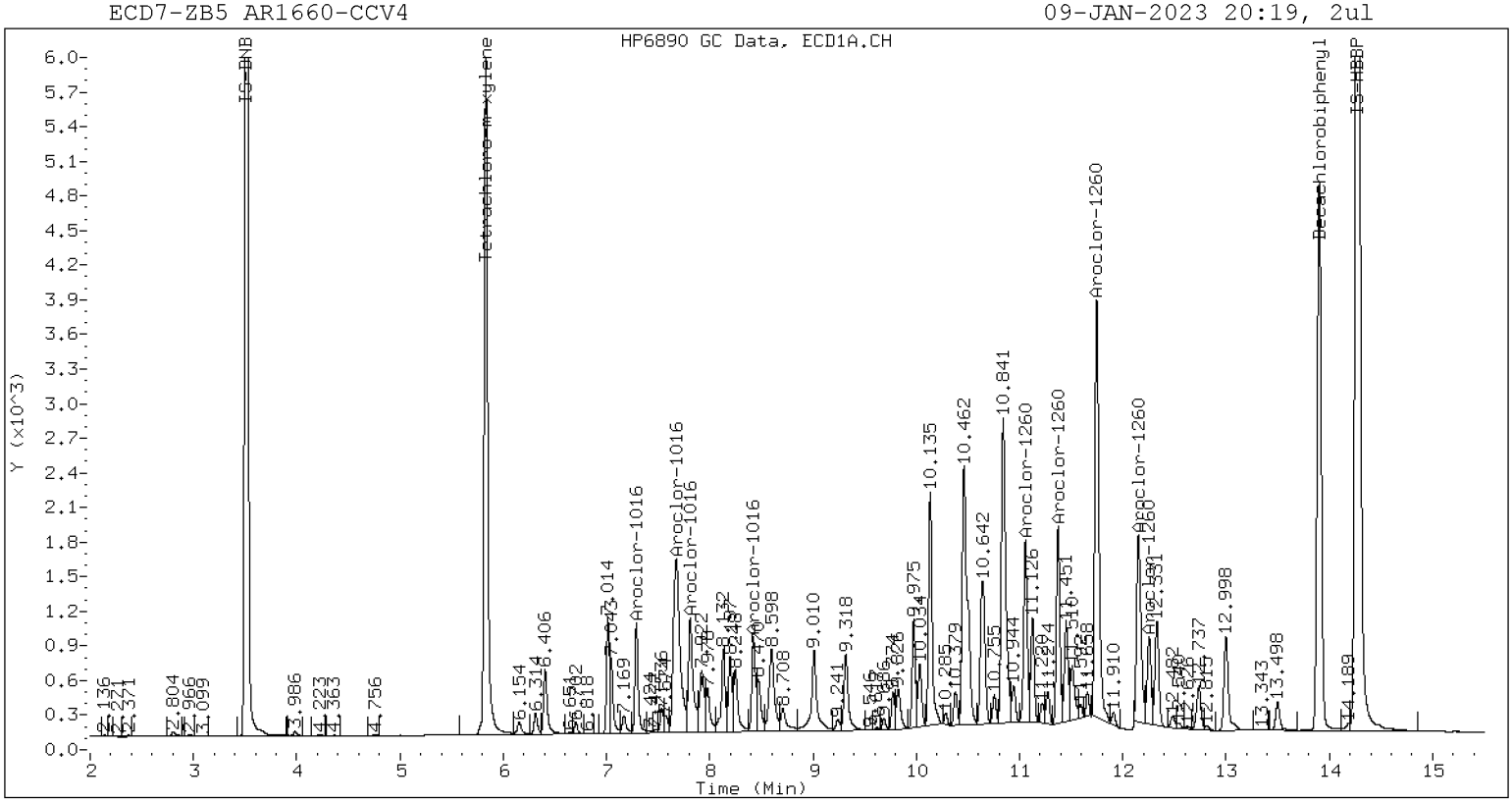
Total PCB Area Col2 (5.813 - 14.037) = 1631519 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

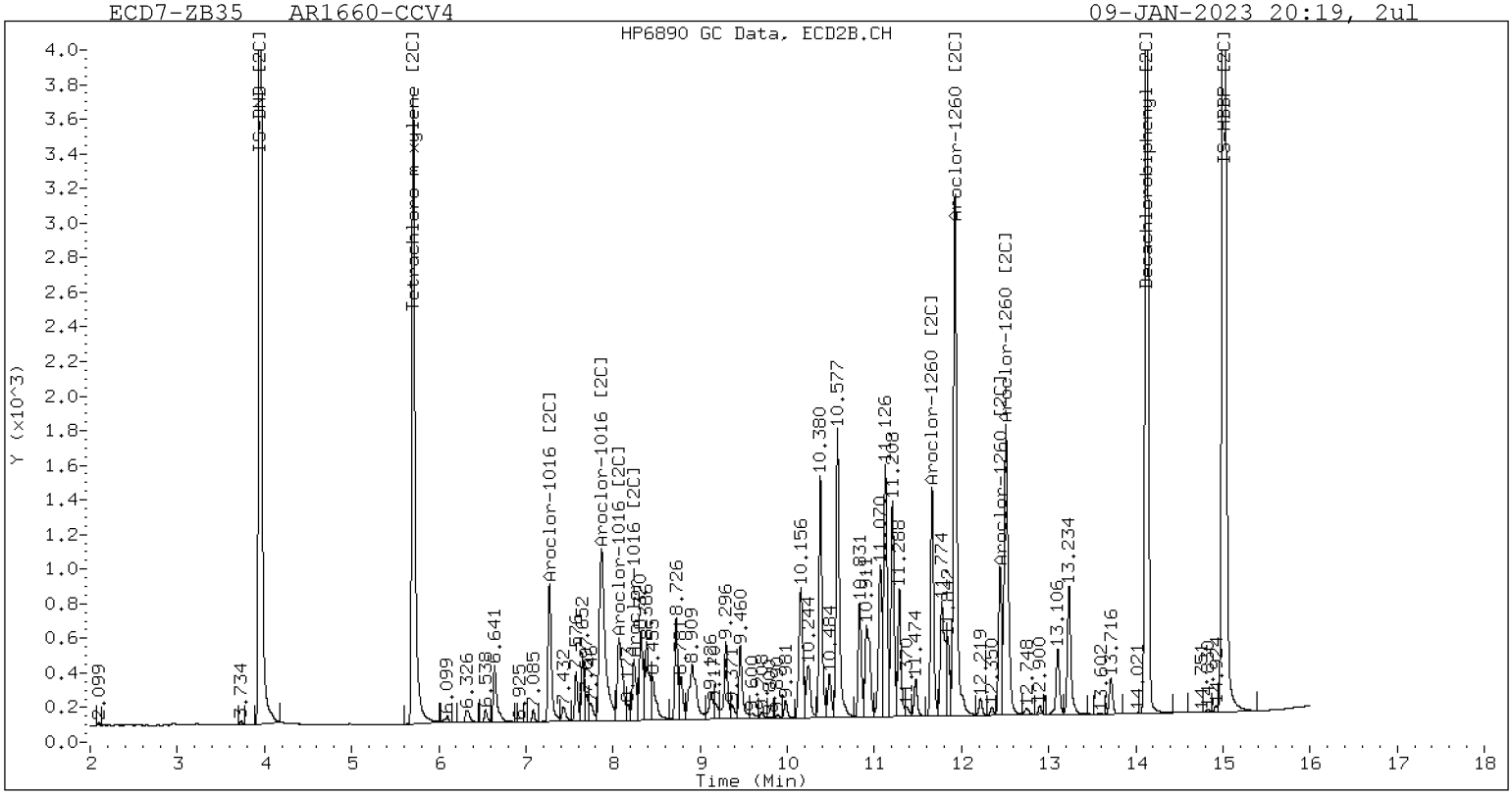
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCV4 09-JAN-2023 20:19, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCV4 09-JAN-2023 20:19, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092344ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCV5	Injection Time:	00:10
Sequence Name:	AR1254CCV5		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1254	A	250.00	307	0.0576965	0.0702425		22.7	+/-20 *
Aroclor-1254 (1)	A	250.00	292		0.0821977			
Aroclor-1254 (2)	A	250.00	337		0.0369560			
Aroclor-1254 (3)	A	250.00	281		0.0499783			
Aroclor-1254 (4)	A	250.00	311		0.1077159			
Aroclor-1254 (5)	A	250.00	313		0.0743647			
Aroclor 1254 [2C]	A	250.00	288	0.0638047	0.0733482		15.2	+/-20
Aroclor-1254 (1) [2C]	A	250.00	275		0.0567209			
Aroclor-1254 (2) [2C]	A	250.00	290		0.0481334			
Aroclor-1254 (3) [2C]	A	250.00	280		0.0998073			
Aroclor-1254 (4) [2C]	A	250.00	294		0.1083874			
Aroclor-1254 (5) [2C]	A	250.00	301		0.0536922			
Decachlorobiphenyl	A	40.000	42.0	0.7333327	0.7699744		5.0	+/-20
Tetrachlorometaxylene	A	40.000	38.7	1.1336710	1.0964820		-3.3	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.6	1.1358180	1.1811320		4.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.7	1.0966080	1.0341720		-5.7	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092344ECD7.D
Data file 2: /230109.b/230109.b/01092344ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1254.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1254-CCV5
Client ID:
Injection Date: 10-JAN-2023 00:10
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	263972	5.708	-0.005	176845	38.7	37.7	2.5	Tetrachloro-m-xylene
13.903	-0.005	395706	14.128	-0.009	328667	42.0	41.6	1.0	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	481489	7.6
Hexabromobiphenyl	798898	1027842	28.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	342003	37.3
Hexabromobiphenyl	362541	556529	53.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1254	1	9.316	-0.005	123679	291.7	1	9.462	-0.005	60621	274.9
Aroclor-1254	2	9.396	-0.006	55606	337.3	2	9.981	-0.005	51443	290.2
Aroclor-1254	3	9.685	-0.009	75200	280.8	3	10.135	-0.005	106670	279.9
Aroclor-1254	4	9.825	-0.006	162075	310.5	4	10.384	-0.005	115840	293.5
Aroclor-1254	5	10.192	0.003	111893	312.7	5	10.580	-0.007	57384	301.5

Total Col1Ave (5 peaks): 306.6 Total Col2Ave (5 peaks): 288.0 RPD = 6

Corrected Ave (4 peaks): 299.0 Corrected Ave (4 peaks): 284.6 RPD = 5

Total PCB Area Col1 (5.936 - 13.808) = 1711786 Col1 Total PCB = 0.4 ppm*

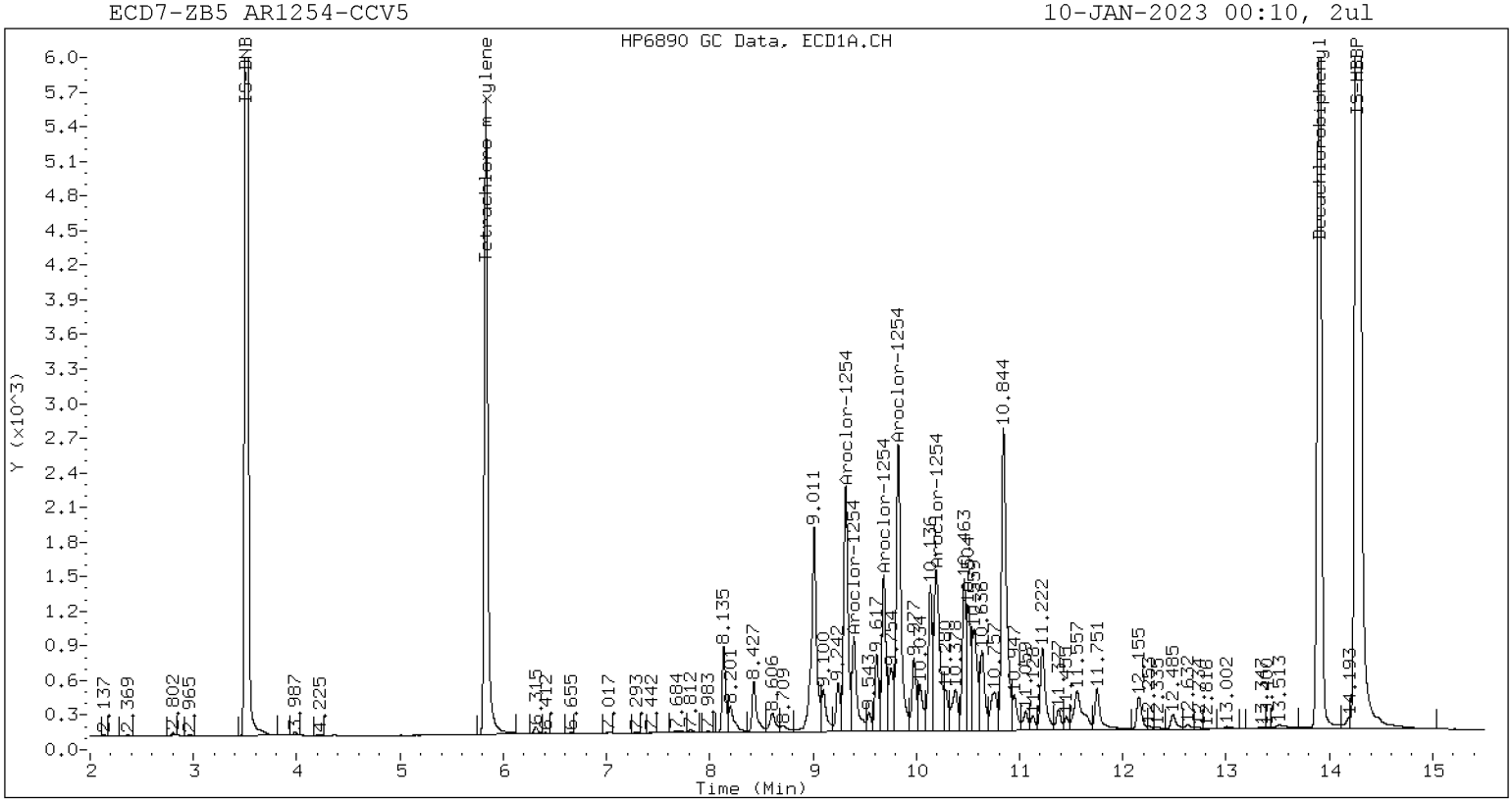
Total PCB Area Col2 (5.813 - 14.037) = 1071990 Col2 Total PCB = 0.3 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

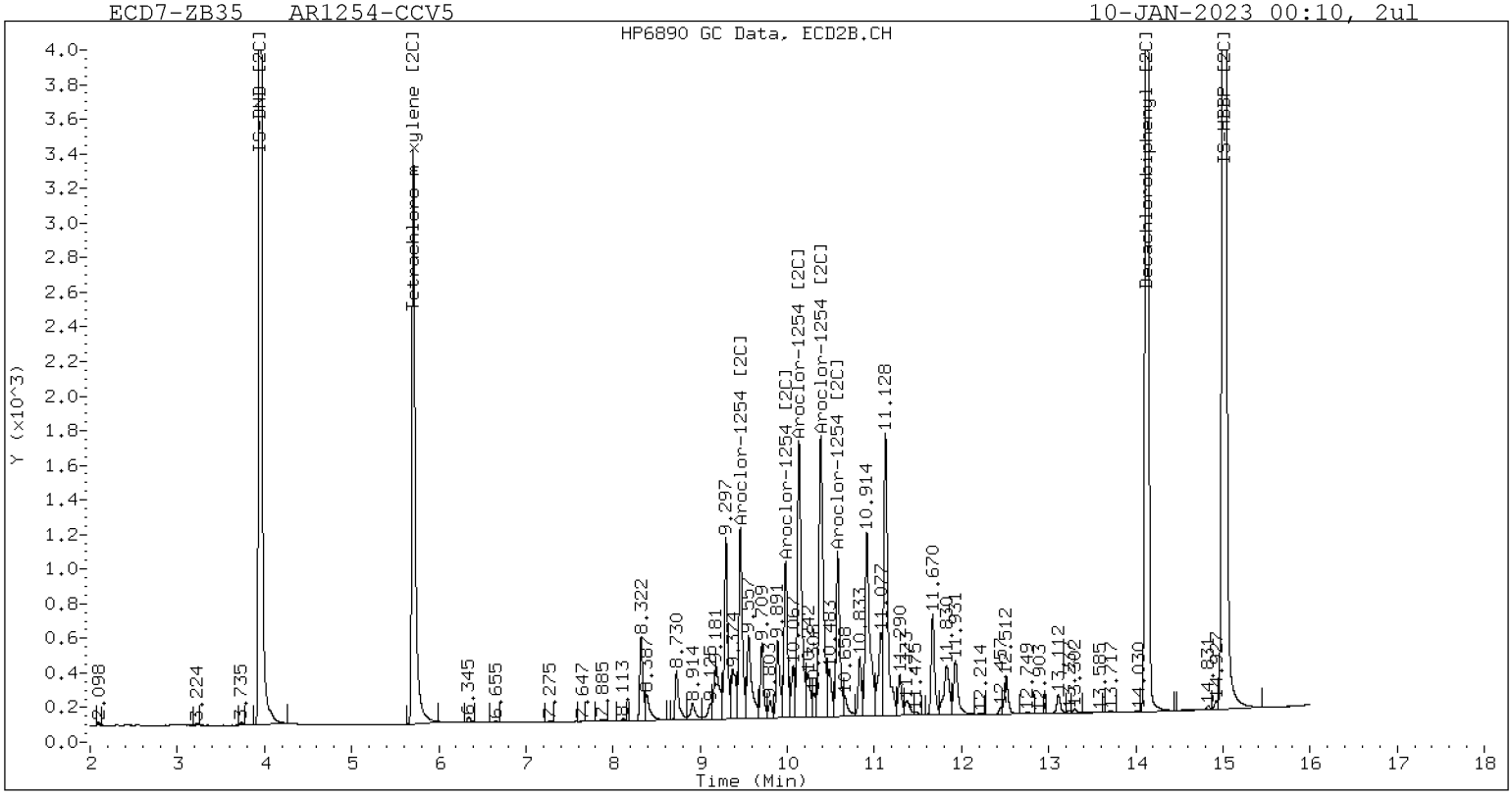
PCB Dual Column Chromatograms

ECD7-ZB5 AR1254-CCV5 10-JAN-2023 00:10, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1254-CCV5 10-JAN-2023 00:10, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092345ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCV6	Injection Time:	00:31
Sequence Name:	AR1660CCV6		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	276	0.0441939	0.0484764		10.6	+/-20
Aroclor-1016 (1)	A	250.00	272	0.0266860	0.0290561		8.9	
Aroclor-1016 (2)	A	250.00	268	0.0861572	0.0924571		7.3	
Aroclor-1016 (3)	A	250.00	285	0.0390425	0.0444916		14.0	
Aroclor-1016 (4)	A	250.00	280	0.0248899	0.0279010		12.1	
Aroclor 1016 [2C]	A	250.00	246	0.0467310	0.0460616		-1.5	+/-20
Aroclor-1016 (1) [2C]	A	250.00	248	0.0409030	0.0405177		-0.9	
Aroclor-1016 (2) [2C]	A	250.00	247	0.0882154	0.0872830		-1.1	
Aroclor-1016 (3) [2C]	A	250.00	243	0.0378846	0.0367659		-3.0	
Aroclor-1016 (4) [2C]	A	250.00	247	0.0199212	0.0196798		-1.2	
Aroclor 1260	A	250.00	259	0.0390342	0.0405147		3.6	+/-20
Aroclor-1260 (1)	A	250.00	261	0.0291201	0.0303490		4.2	
Aroclor-1260 (2)	A	250.00	265	0.0301181	0.0319673		6.1	
Aroclor-1260 (3)	A	250.00	262	0.0791351	0.0829085		4.8	
Aroclor-1260 (4)	A	250.00	251	0.0403003	0.0404669		0.4	
Aroclor-1260 (5)	A	250.00	256	0.0164974	0.0168818		2.3	
Aroclor 1260 [2C]	A	250.00	258	0.0617619	0.0643203		3.1	+/-20
Aroclor-1260 (1) [2C]	A	250.00	251	0.0422283	0.0423996		0.4	
Aroclor-1260 (2) [2C]	A	250.00	263	0.1059643	0.1116426		5.4	
Aroclor-1260 (3) [2C]	A	250.00	252	0.0282173	0.0284844		0.9	
Aroclor-1260 (4) [2C]	A	250.00	265	0.0706376	0.0747545		5.8	
Decachlorobiphenyl	A	40.000	42.3	0.7333327	0.7757008		5.8	+/-20
Tetrachlorometaxylene	A	40.000	43.1	1.1336710	1.2210720		7.7	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1798260		3.9	+/-20
Tetrachlorometaxylene [2C]	A	40.000	41.1	1.0966080	1.1278200		2.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092345ECD7.D
Data file 2: /230109.b/230109.b/01092345ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCV6
Client ID:
Injection Date: 10-JAN-2023 00:31
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	298698	5.707	-0.006	195564	43.1	41.1	4.6	Tetrachloro-m-xylene
13.904	-0.004	427185	14.127	-0.010	346378	42.3	41.5	1.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	489239	9.3
Hexabromobiphenyl	798898	1101417	37.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	346800	39.2
Hexabromobiphenyl	362541	587168	62.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.290	-0.005	44423	272.2	1	7.271	-0.004	43911	247.6
Aroclor-1016	2	7.677	-0.007	141355	268.3	2	7.872	0.001	94593	247.4
Aroclor-1016	3	7.812	-0.006	68022	284.9	3	8.070	-0.001	39845	242.6
Aroclor-1016	4	8.424	-0.006	42657	280.2	4	8.241	0.000	21328	247.0
	Total Col1Ave (4 peaks):				276.4	Total Col2Ave (4 peaks):				246.1 RPD = 12
	Corrected Ave (3 peaks):				273.6	Corrected Ave (3 peaks):				245.6 RPD = 11
Aroclor-1260	1	11.058	-0.004	104459	260.6	1	11.662	-0.007	77799	251.0
Aroclor-1260	2	11.374	-0.003	110029	265.3	2	11.927	-0.006	204853	263.4
Aroclor-1260	3	11.749	-0.003	285365	261.9	3	12.444	-0.007	52266	252.4
Aroclor-1260	4	12.153	-0.005	139284	251.0	4	12.510	-0.006	137167	264.6
Aroclor-1260	5	12.257	-0.005	58106	255.8	NS	---			----
	Total Col1Ave (5 peaks):				258.9	Total Col2Ave (4 peaks):				257.8 RPD = 0
	Corrected Ave (4 peaks):				257.3	Corrected Ave (3 peaks):				255.6 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 2885590 Col1 Total PCB = 0.6 ppm*

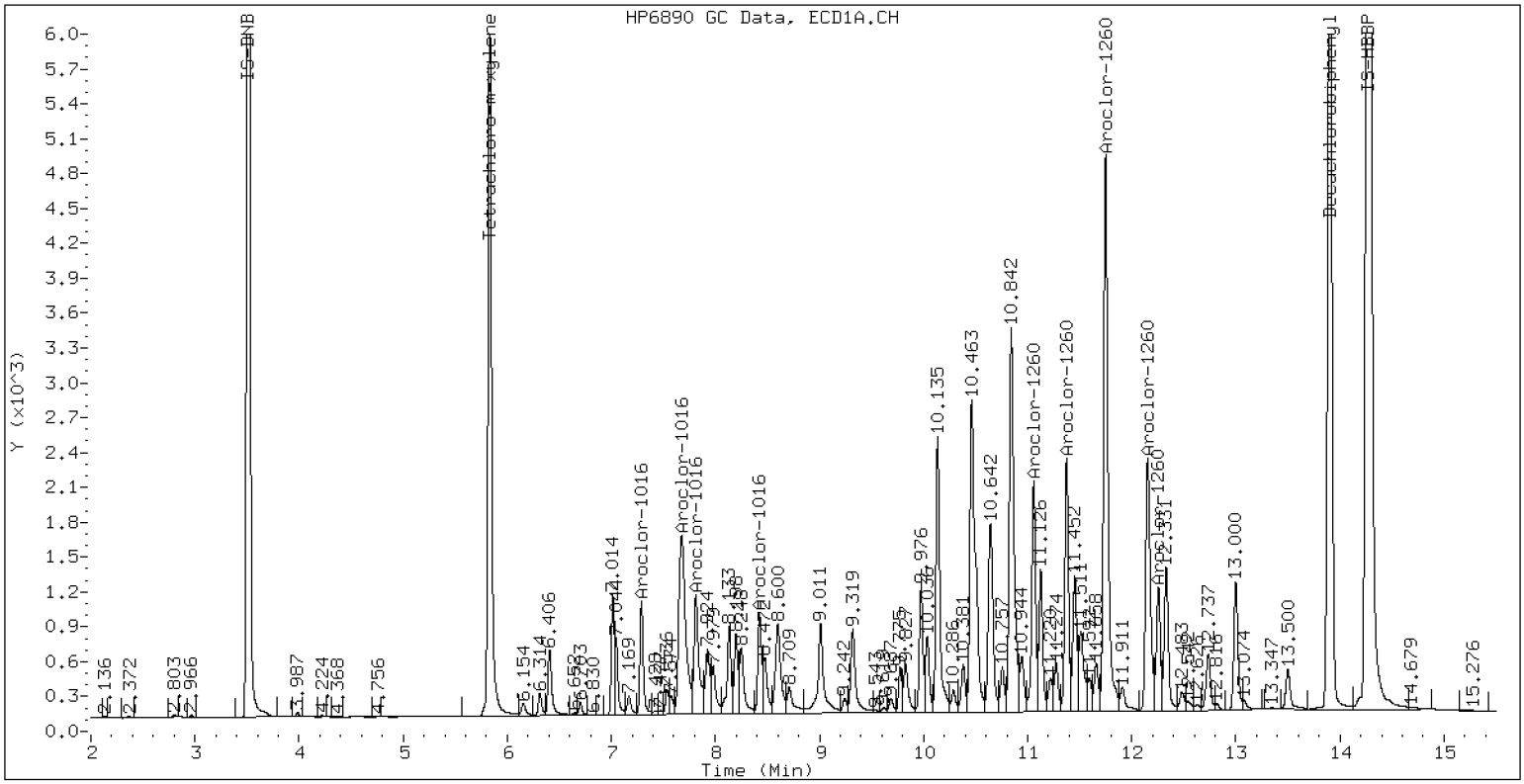
Total PCB Area Col2 (5.813 - 14.037) = 1833667 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

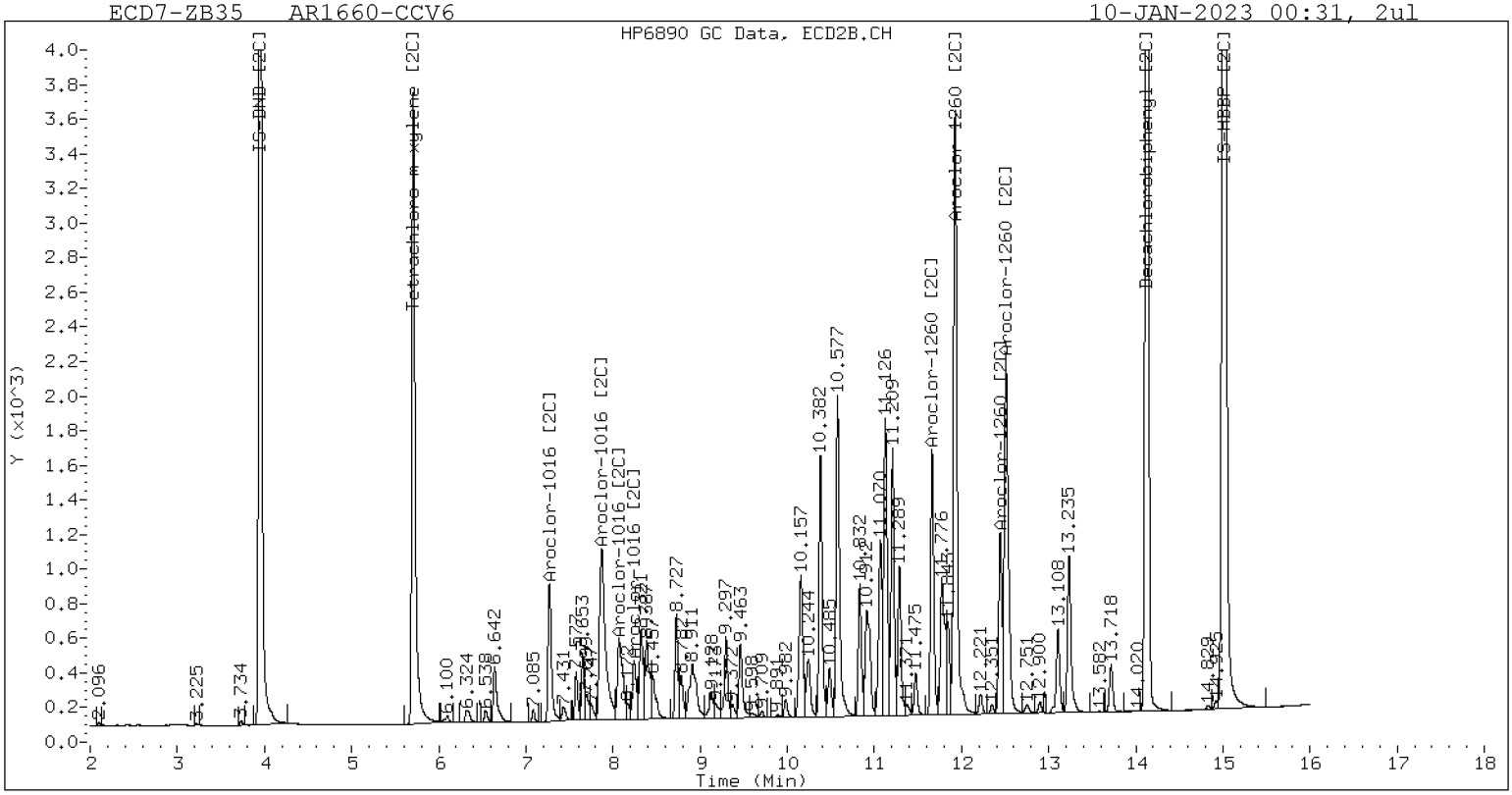
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCV6 10-JAN-2023 00:31, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCV6 10-JAN-2023 00:31, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092353ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCV7	Injection Time:	03:20
Sequence Name:	AR1248CCV7		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1248	A	250.00	286	0.0490062	0.0571647		14.5	+/-20
Aroclor-1248 (1)	A	250.00	268		0.0369040			
Aroclor-1248 (2)	A	250.00	282		0.0494647			
Aroclor-1248 (3)	A	250.00	311		0.0982210			
Aroclor-1248 (4)	A	250.00	285		0.0440690			
Aroclor 1248 [2C]	A	250.00	263	0.0394876	0.0417450		5.2	+/-20
Aroclor-1248 (1) [2C]	A	250.00	259		0.0338763			
Aroclor-1248 (2) [2C]	A	250.00	247		0.0339885			
Aroclor-1248 (3) [2C]	A	250.00	273		0.0456795			
Aroclor-1248 (4) [2C]	A	250.00	272		0.0534357			
Decachlorobiphenyl	A	40.000	38.2	0.7333327	0.6998433		-4.6	+/-20
Tetrachlorometaxylene	A	40.000	38.1	1.1336710	1.0811750		-4.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	40.8	1.1358180	1.1589710		2.0	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0155270		-7.4	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092353ECD7.D
Data file 2: /230109.b/230109.b/01092353ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1248.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1248-CCV7
Client ID:
Injection Date: 10-JAN-2023 03:20
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	253435	5.709	-0.005	167989	38.1	37.0	2.9	Tetrachloro-m-xylene
13.903	-0.005	357776	14.129	-0.008	333913	38.2	40.8	6.7	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	468814	4.7
Hexabromobiphenyl	798898	1022446	28.0

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	330841	32.8
Hexabromobiphenyl	362541	576223	58.9

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1248	1	8.424	-0.004	54066	268.2	1	8.322	-0.004	35024	259.1
Aroclor-1248	2	8.600	-0.004	72468	281.6	2	8.728	-0.005	35140	247.2
Aroclor-1248	3	9.015	-0.007	143898	310.8	3	9.177	-0.000	47227	273.1
Aroclor-1248	4	9.310	-0.001	64563	284.6	4	9.601	-0.001	55246	272.2
Total Col1Ave (4 peaks):					286.3	Total Col2Ave (4 peaks):				262.9 RPD = 9
Corrected Ave (3 peaks):					278.1	Corrected Ave (3 peaks):				259.5 RPD = 7

Total PCB Area Col1 (5.936 - 13.808) = 1132007 Col1 Total PCB = 0.3 ppm*

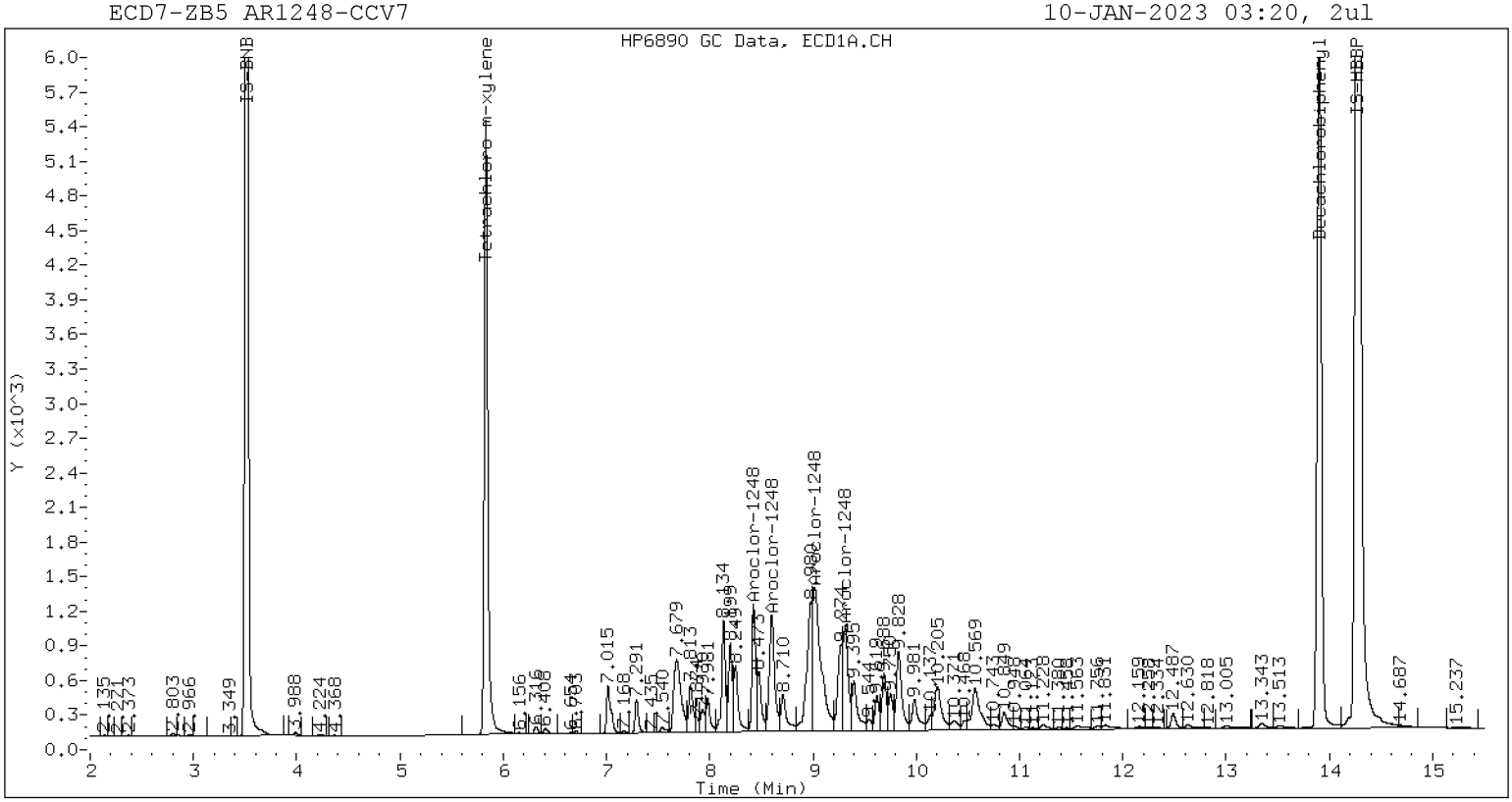
Total PCB Area Col2 (5.813 - 14.037) = 724167 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

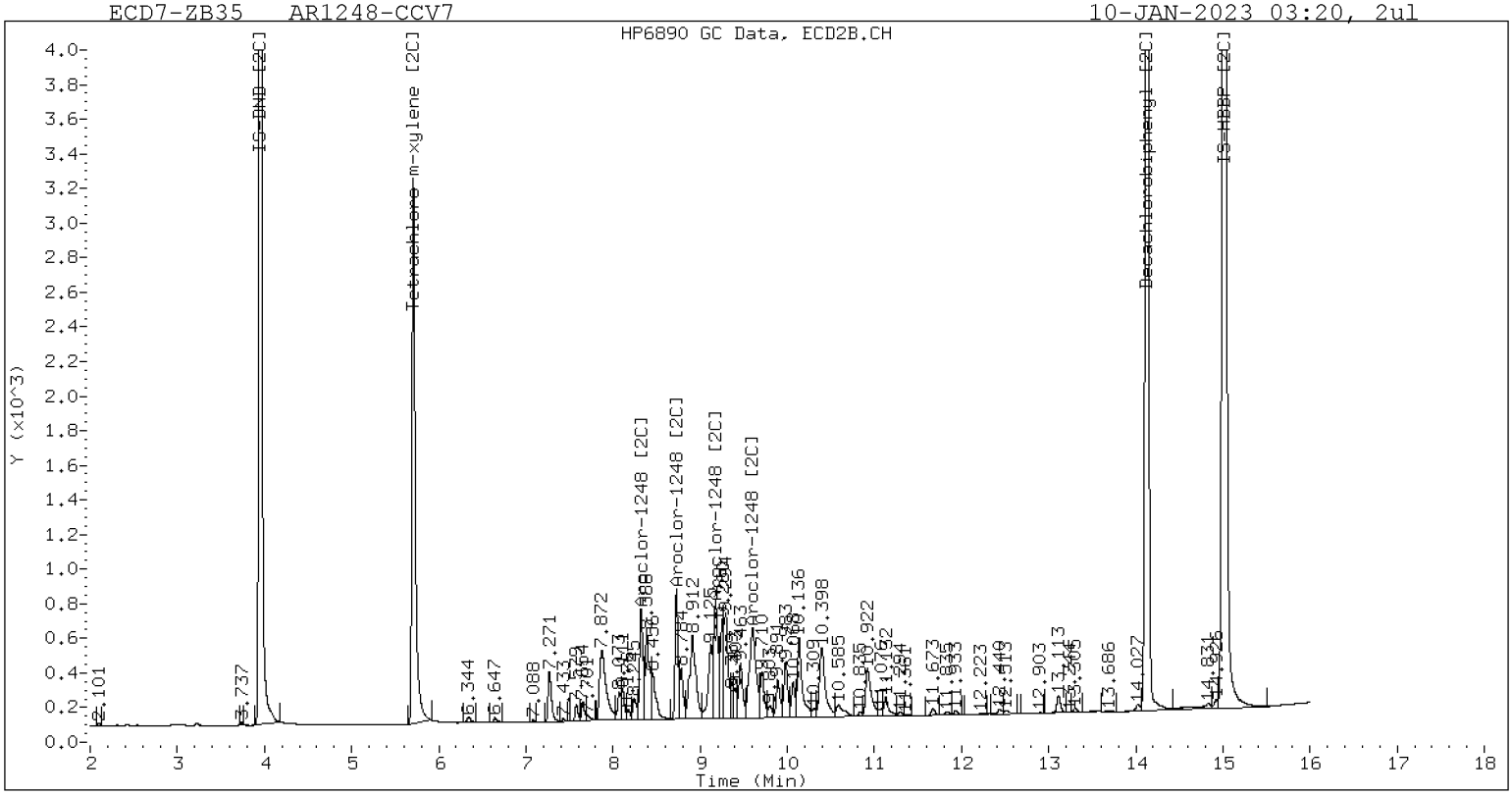
PCB Dual Column Chromatograms

ECD7-ZB5 AR1248-CCV7 10-JAN-2023 03:20, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1248-CCV7 10-JAN-2023 03:20, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092354ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCV8	Injection Time:	03:41
Sequence Name:	AR1660CCV8		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	278	0.0441939	0.0488013		11.3	+/-20
Aroclor-1016 (1)	A	250.00	271	0.0266860	0.0289807		8.6	
Aroclor-1016 (2)	A	250.00	270	0.0861572	0.0930672		8.0	
Aroclor-1016 (3)	A	250.00	288	0.0390425	0.0449911		15.2	
Aroclor-1016 (4)	A	250.00	283	0.0248899	0.0281660		13.2	
Aroclor 1016 [2C]	A	250.00	257	0.0467310	0.0480505		2.9	+/-20
Aroclor-1016 (1) [2C]	A	250.00	255	0.0409030	0.0417235		2.0	
Aroclor-1016 (2) [2C]	A	250.00	258	0.0882154	0.0909288		3.1	
Aroclor-1016 (3) [2C]	A	250.00	256	0.0378846	0.0387699		2.3	
Aroclor-1016 (4) [2C]	A	250.00	261	0.0199212	0.0207800		4.3	
Aroclor 1260	A	250.00	261	0.0390342	0.0408497		4.4	+/-20
Aroclor-1260 (1)	A	250.00	254	0.0291201	0.0295930		1.6	
Aroclor-1260 (2)	A	250.00	263	0.0301181	0.0317062		5.3	
Aroclor-1260 (3)	A	250.00	266	0.0791351	0.0840808		6.2	
Aroclor-1260 (4)	A	250.00	257	0.0403003	0.0413585		2.6	
Aroclor-1260 (5)	A	250.00	265	0.0164974	0.0175097		6.1	
Aroclor 1260 [2C]	A	250.00	251	0.0617619	0.0626991		0.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	243	0.0422283	0.0410758		-2.7	
Aroclor-1260 (2) [2C]	A	250.00	257	0.1059643	0.1087793		2.7	
Aroclor-1260 (3) [2C]	A	250.00	246	0.0282173	0.0277408		-1.7	
Aroclor-1260 (4) [2C]	A	250.00	259	0.0706376	0.0732007		3.6	
Decachlorobiphenyl	A	40.000	39.4	0.7333327	0.7217319		-1.6	+/-20
Tetrachlorometaxylene	A	40.000	42.9	1.1336710	1.2144510		7.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.5	1.1358180	1.1788580		3.8	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.7	1.0966080	1.1160920		1.8	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092354ECD7.D
Data file 2: /230109.b/230109.b/01092354ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCV8
Client ID:
Injection Date: 10-JAN-2023 03:41
Report Date: 01/13/2023 16:17
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.832	-0.004	293828	5.708	-0.005	190993	42.9	40.7	5.1	Tetrachloro-m-xylene
13.902	-0.006	412901	14.127	-0.010	366556	39.4	41.5	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	483886	8.1
Hexabromobiphenyl	798898	1144195	43.2

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	342253	37.4
Hexabromobiphenyl	362541	621883	71.5

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	43823	271.5	1	7.271	-0.004	44625	255.0
Aroclor-1016	2	7.677	-0.007	140731	270.1	2	7.872	0.002	97252	257.7
Aroclor-1016	3	7.812	-0.005	68033	288.1	3	8.071	0.001	41466	255.8
Aroclor-1016	4	8.423	-0.006	42591	282.9	4	8.242	0.001	22225	260.8
Total Col1Ave (4 peaks):					278.1	Total Col2Ave (4 peaks):				257.3 RPD = 8
Corrected Ave (3 peaks):					274.8	Corrected Ave (3 peaks):				256.2 RPD = 7
Aroclor-1260	1	11.059	-0.003	105813	254.1	1	11.663	-0.006	79826	243.2
Aroclor-1260	2	11.374	-0.003	113369	263.2	2	11.927	-0.005	211400	256.6
Aroclor-1260	3	11.748	-0.004	300640	265.6	3	12.444	-0.007	53911	245.8
Aroclor-1260	4	12.153	-0.006	147882	256.6	4	12.511	-0.006	142257	259.1
Aroclor-1260	5	12.256	-0.005	62608	265.3	NS	---			----
Total Col1Ave (5 peaks):					261.0	Total Col2Ave (4 peaks):				251.2 RPD = 4
Corrected Ave (4 peaks):					259.8	Corrected Ave (3 peaks):				248.5 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 2941644 Col1 Total PCB = 0.6 ppm*

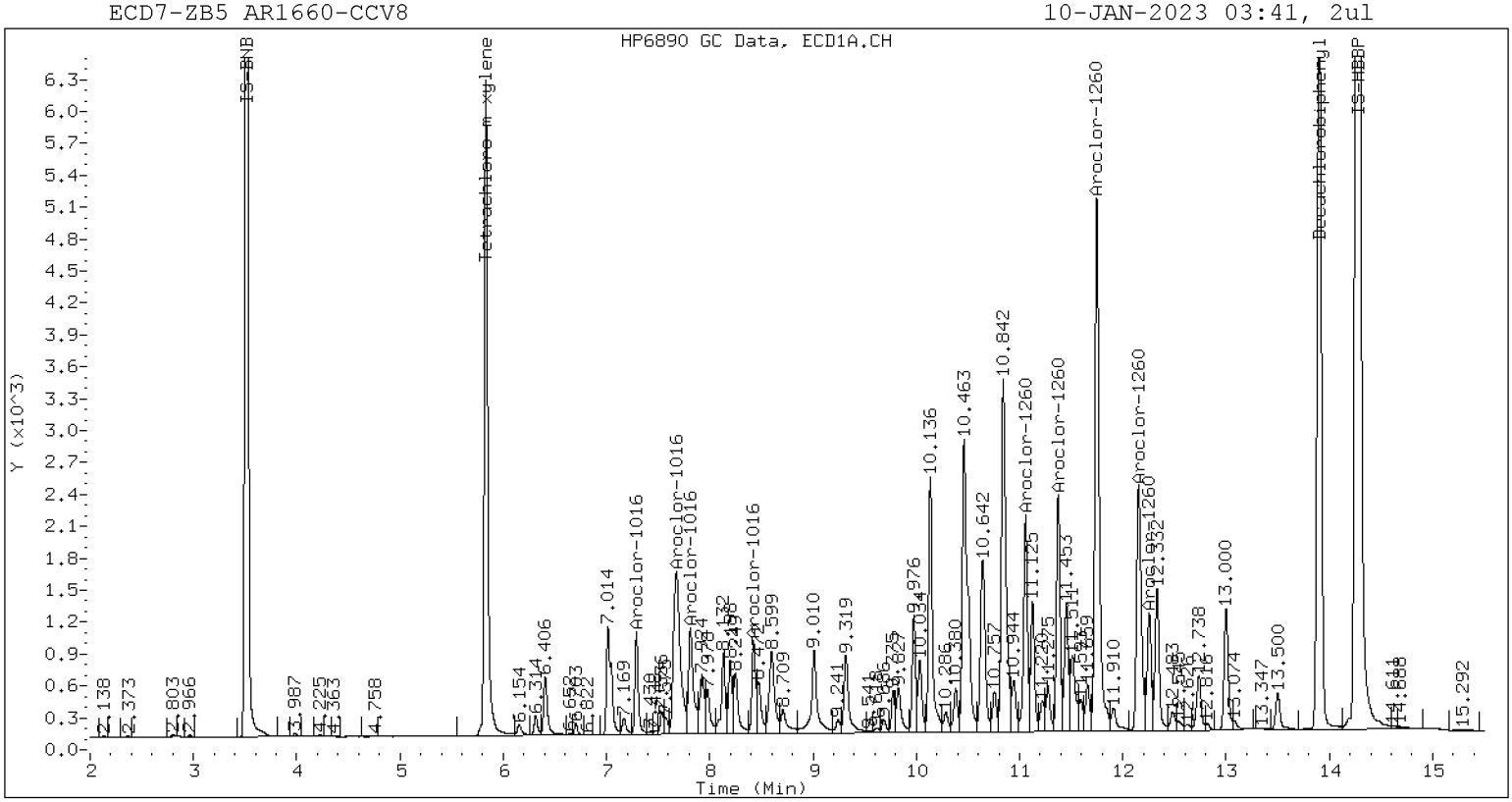
Total PCB Area Col2 (5.813 - 14.037) = 1887814 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

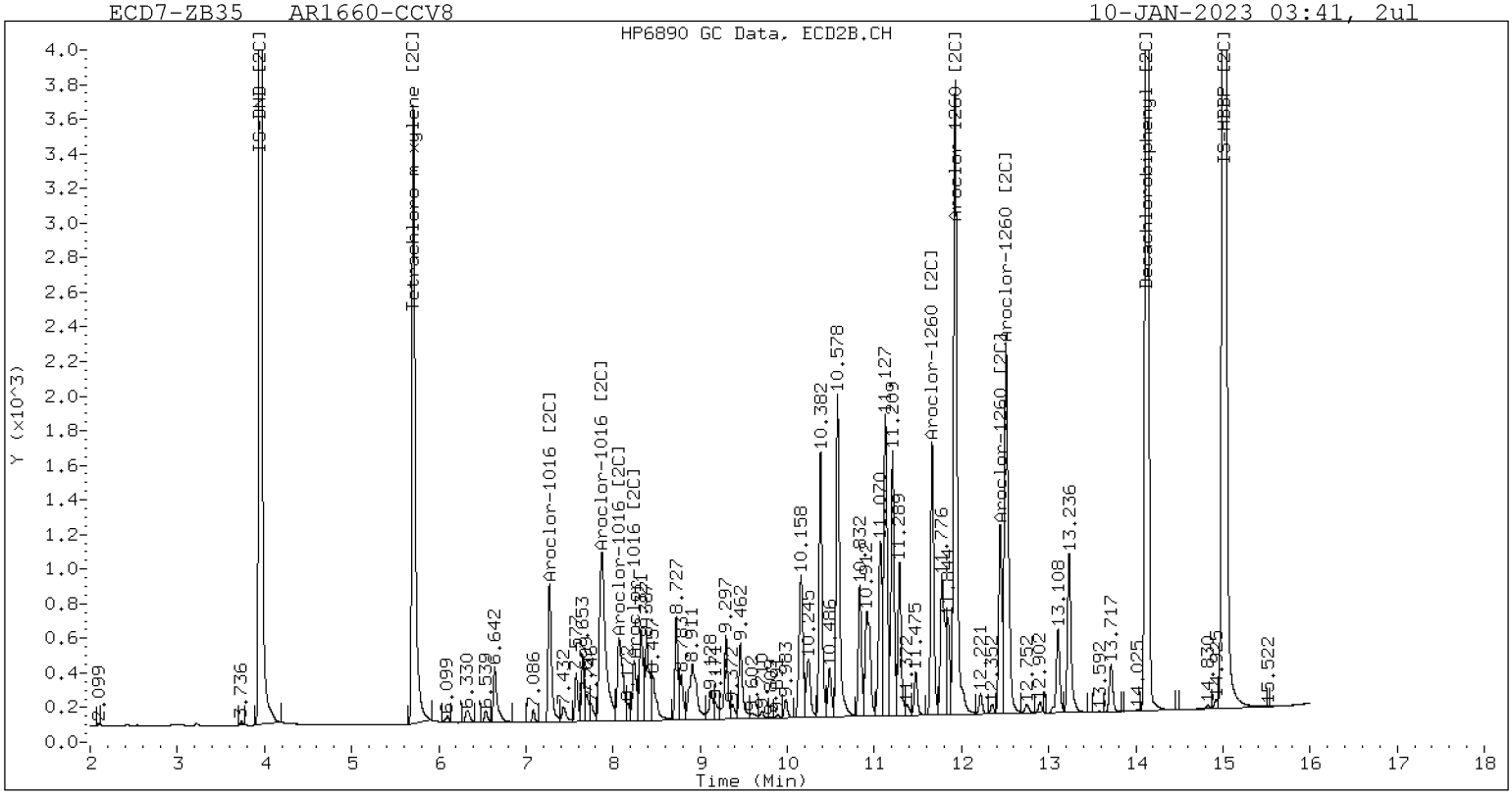
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCV8 10-JAN-2023 03:41, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCV8 10-JAN-2023 03:41, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092369ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCV9	Injection Time:	08:57
Sequence Name:	AR1242CCV9		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	271	0.0396000	0.0428510		8.4	+/-20
Aroclor-1242 (1)	A	250.00	263		0.0238861			
Aroclor-1242 (2)	A	250.00	259		0.0745888			
Aroclor-1242 (3)	A	250.00	265		0.0219490			
Aroclor-1242 (4)	A	250.00	296		0.0509802			
Aroclor 1242 [2C]	A	250.00	254	0.0391981	0.0397522		1.6	+/-20
Aroclor-1242 (1) [2C]	A	250.00	250		0.0338520			
Aroclor-1242 (2) [2C]	A	250.00	253		0.0727359			
Aroclor-1242 (3) [2C]	A	250.00	255		0.0236657			
Aroclor-1242 (4) [2C]	A	250.00	258		0.0287553			
Decachlorobiphenyl	A	40.000	42.1	0.7333327	0.7718605		5.3	+/-20
Tetrachlorometaxylene	A	40.000	38.6	1.1336710	1.0926840		-3.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	44.2	1.1358180	1.2547880		10.5	+/-20
Tetrachlorometaxylene [2C]	A	40.000	37.0	1.0966080	1.0132010		-7.6	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092369ECD7.D
Data file 2: /230109.b/230109.b/01092369ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242C-CCV9
Client ID:
Injection Date: 10-JAN-2023 08:57
Report Date: 01/13/2023 16:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	240710	5.707	-0.007	160374	38.6	37.0	4.2	Tetrachloro-m-xylene
13.902	-0.006	209454	14.127	-0.010	225678	42.1	44.2	4.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	440585	-1.6
Hexabromobiphenyl	798898	542725	-32.1

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	316569	27.1
Hexabromobiphenyl	362541	359707	-0.8

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

	ZB5 Col				ZB35 Col				
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.006	32887	263.3	1	7.270	-0.007	33489	250.0
Aroclor-1242	2	7.678	-0.007	102696	259.0	2	7.871	-0.003	71956	253.0
Aroclor-1242	3	8.424	-0.006	30220	264.9	3	9.174	-0.004	23412	255.1
Aroclor-1242	4	9.021	-0.010	70191	296.3	4	9.602	-0.004	28447	257.9
Total Col1Ave (4 peaks):					270.9	Total Col2Ave (4 peaks):				254.0 RPD = 6
Corrected Ave (3 peaks):					262.4	Corrected Ave (3 peaks):				252.7 RPD = 4

Total PCB Area Col1 (5.936 - 13.808) = 825477 Col1 Total PCB = 0.2 ppm*

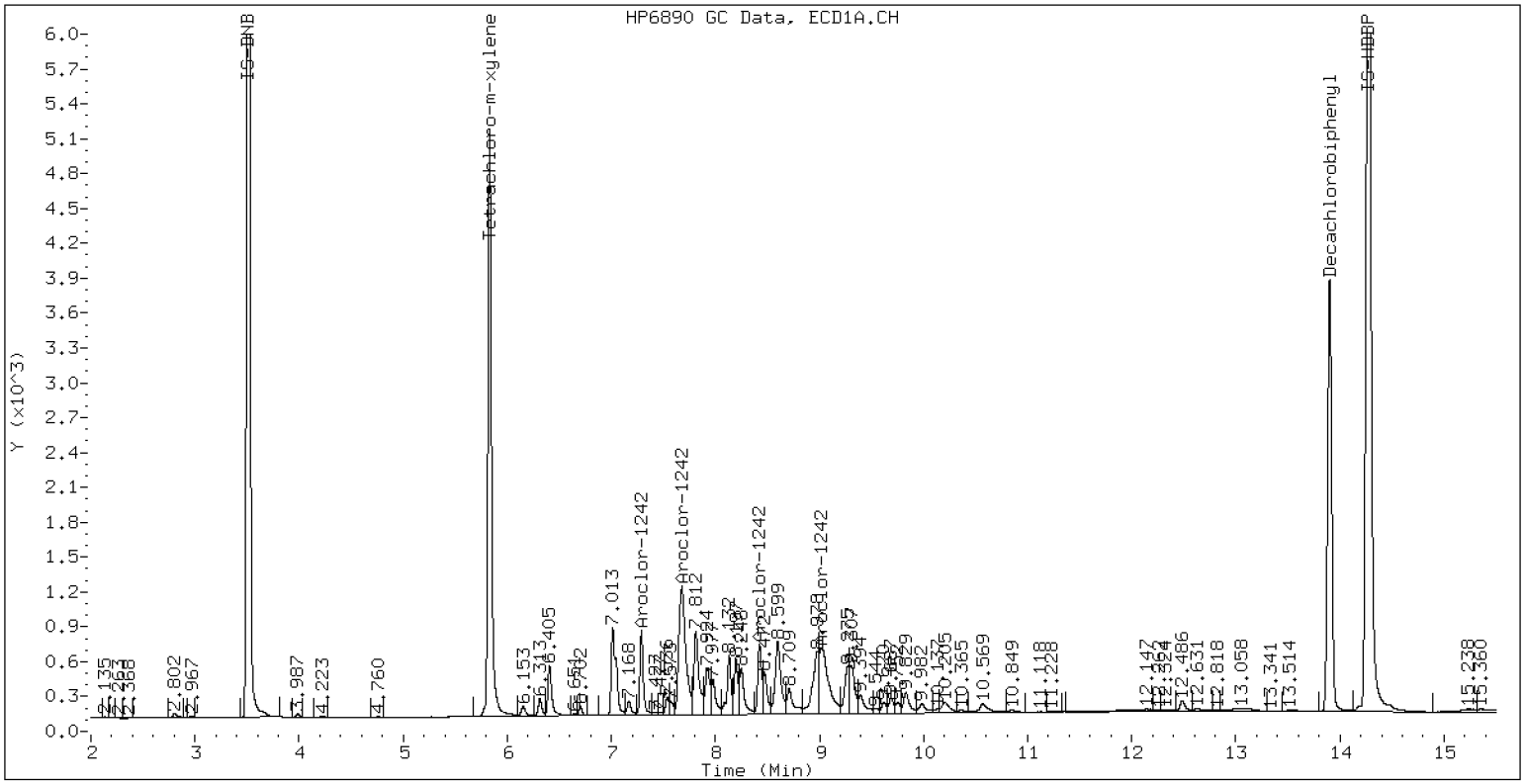
Total PCB Area Col2 (5.813 - 14.037) = 516487 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

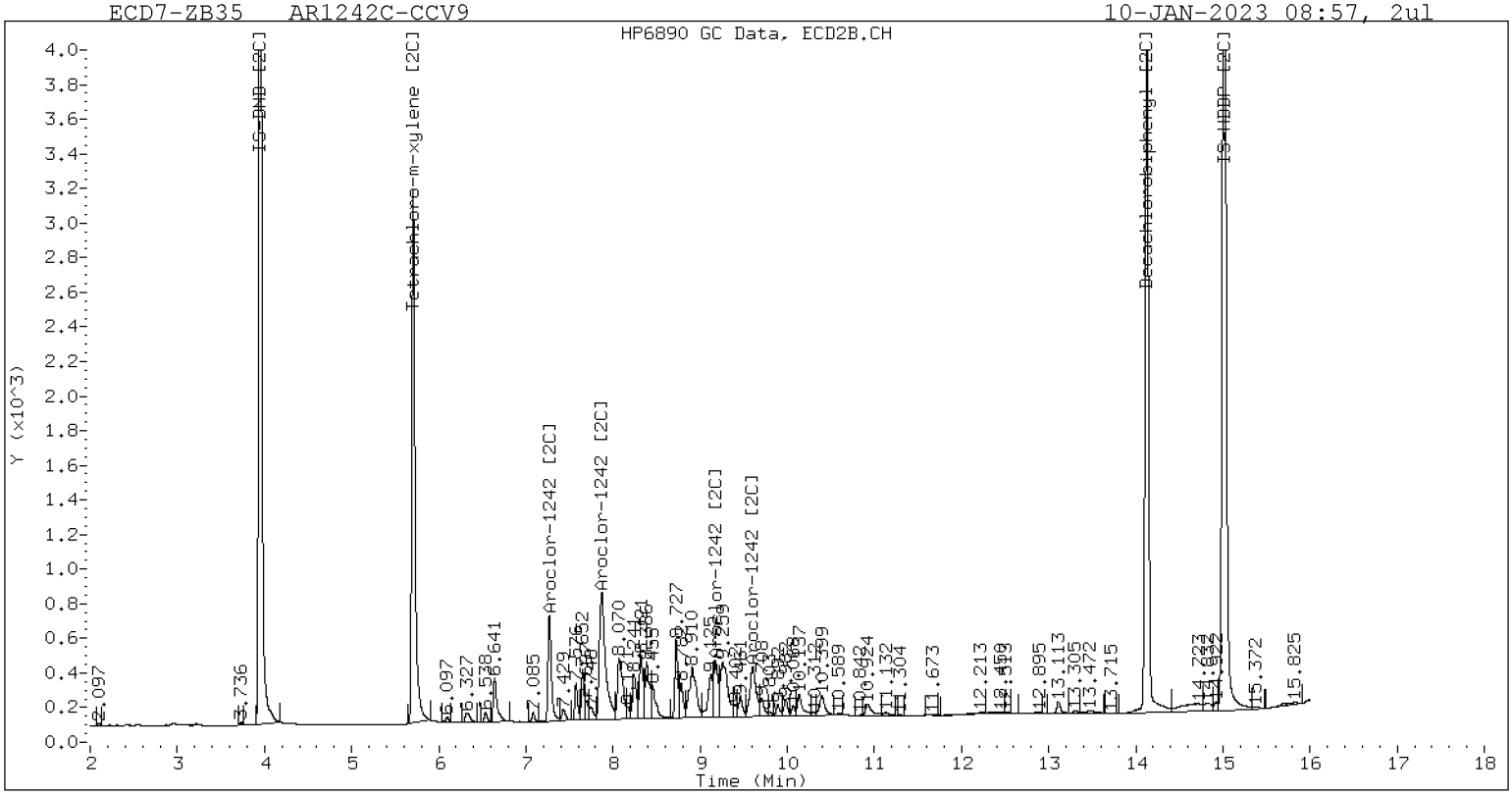
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242C-CCV9 10-JAN-2023 08:57, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1242C-CCV9 10-JAN-2023 08:57, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092370ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCVA	Injection Time:	09:18
Sequence Name:	AR1660CCVA		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	271	0.0441939	0.0476063		8.3	+/-20
Aroclor-1016 (1)	A	250.00	265	0.0266860	0.0282598		5.9	
Aroclor-1016 (2)	A	250.00	265	0.0861572	0.0912079		5.9	
Aroclor-1016 (3)	A	250.00	280	0.0390425	0.0437233		12.0	
Aroclor-1016 (4)	A	250.00	274	0.0248899	0.0272344		9.4	
Aroclor 1016 [2C]	A	250.00	247	0.0467310	0.0460658		-1.3	+/-20
Aroclor-1016 (1) [2C]	A	250.00	244	0.0409030	0.0399823		-2.3	
Aroclor-1016 (2) [2C]	A	250.00	247	0.0882154	0.0873174		-1.0	
Aroclor-1016 (3) [2C]	A	250.00	244	0.0378846	0.0369359		-2.5	
Aroclor-1016 (4) [2C]	A	250.00	251	0.0199212	0.0200276		0.5	
Aroclor 1260	A	250.00	297	0.0390342	0.0460176		18.6	+/-20
Aroclor-1260 (1)	A	250.00	302	0.0291201	0.0352213		21.0	
Aroclor-1260 (2)	A	250.00	301	0.0301181	0.0362151		20.2	
Aroclor-1260 (3)	A	250.00	288	0.0791351	0.0912163		15.3	
Aroclor-1260 (4)	A	250.00	298	0.0403003	0.0481030		19.4	
Aroclor-1260 (5)	A	250.00	293	0.0164974	0.0193322		17.2	
Aroclor 1260 [2C]	A	250.00	296	0.0617619	0.0735362		18.5	+/-20
Aroclor-1260 (1) [2C]	A	250.00	286	0.0422283	0.0482252		14.2	
Aroclor-1260 (2) [2C]	A	250.00	299	0.1059643	0.1265778		19.5	
Aroclor-1260 (3) [2C]	A	250.00	298	0.0282173	0.0336099		19.1	
Aroclor-1260 (4) [2C]	A	250.00	303	0.0706376	0.0857319		21.4	
Decachlorobiphenyl	A	40.000	43.7	0.7333327	0.8013265		9.3	+/-20
Tetrachlorometaxylene	A	40.000	41.4	1.1336710	1.1745290		3.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	41.4	1.1358180	1.1766330		3.6	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.1	1.0966080	1.0999530		0.3	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092370ECD7.D
Data file 2: /230109.b/230109.b/01092370ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCVA
Client ID:
Injection Date: 10-JAN-2023 09:18
Report Date: 01/13/2023 16:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	254006	5.707	-0.006	171233	41.4	40.1	3.2	Tetrachloro-m-xylene
13.902	-0.006	247442	14.127	-0.010	228614	43.7	41.4	5.3	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	432524	-3.4
Hexabromobiphenyl	798898	617581	-22.7

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	311346	25.0
Hexabromobiphenyl	362541	388590	7.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col				ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.006	38197	264.7	1	7.270	-0.005	38901	244.4
Aroclor-1016	2	7.677	-0.008	123280	264.7	2	7.871	0.000	84956	247.5
Aroclor-1016	3	7.811	-0.007	59098	280.0	3	8.069	-0.001	35937	243.7
Aroclor-1016	4	8.422	-0.007	36811	273.5	4	8.240	-0.001	19486	251.3
Total Col1Ave (4 peaks):					270.7	Total Col2Ave (4 peaks):				246.7 RPD = 9
Corrected Ave (3 peaks):					267.6	Corrected Ave (3 peaks):				245.2 RPD = 9
Aroclor-1260	1	11.056	-0.006	67975	302.4	1	11.662	-0.007	58562	285.5
Aroclor-1260	2	11.373	-0.005	69893	300.6	2	11.925	-0.007	153709	298.6
Aroclor-1260	3	11.746	-0.006	176042	288.2	3	12.443	-0.008	40814	297.8
Aroclor-1260	4	12.150	-0.008	92836	298.4	4	12.509	-0.007	104108	303.4
Aroclor-1260	5	12.255	-0.007	37310	293.0	NS	---			----
Total Col1Ave (5 peaks):					296.5	Total Col2Ave (4 peaks):				296.3 RPD = 0
Corrected Ave (4 peaks):					295.0	Corrected Ave (3 peaks):				294.0 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2031481 Col1 Total PCB = 0.5 ppm*

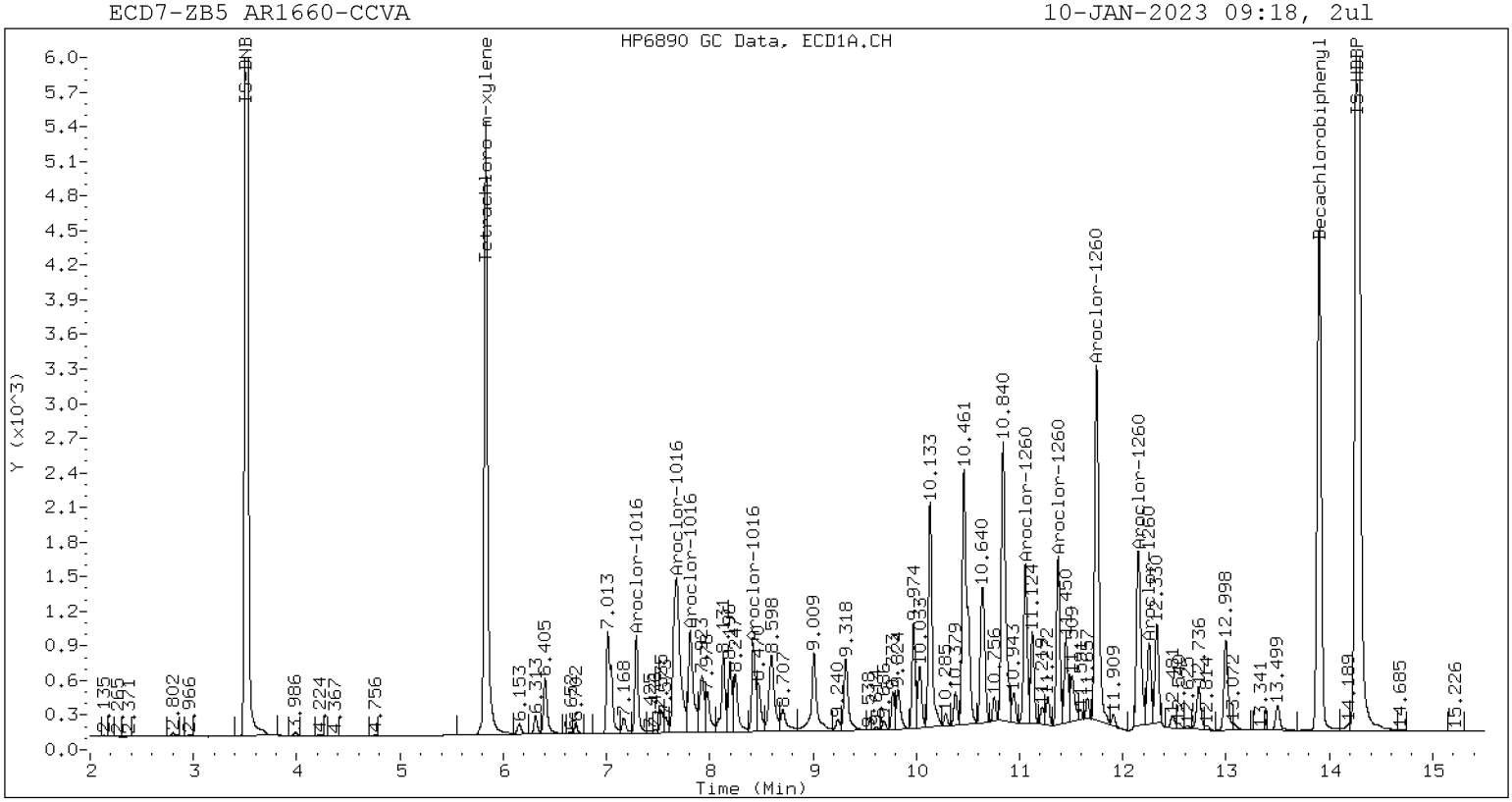
Total PCB Area Col2 (5.813 - 14.037) = 1491569 Col2 Total PCB = 0.5 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

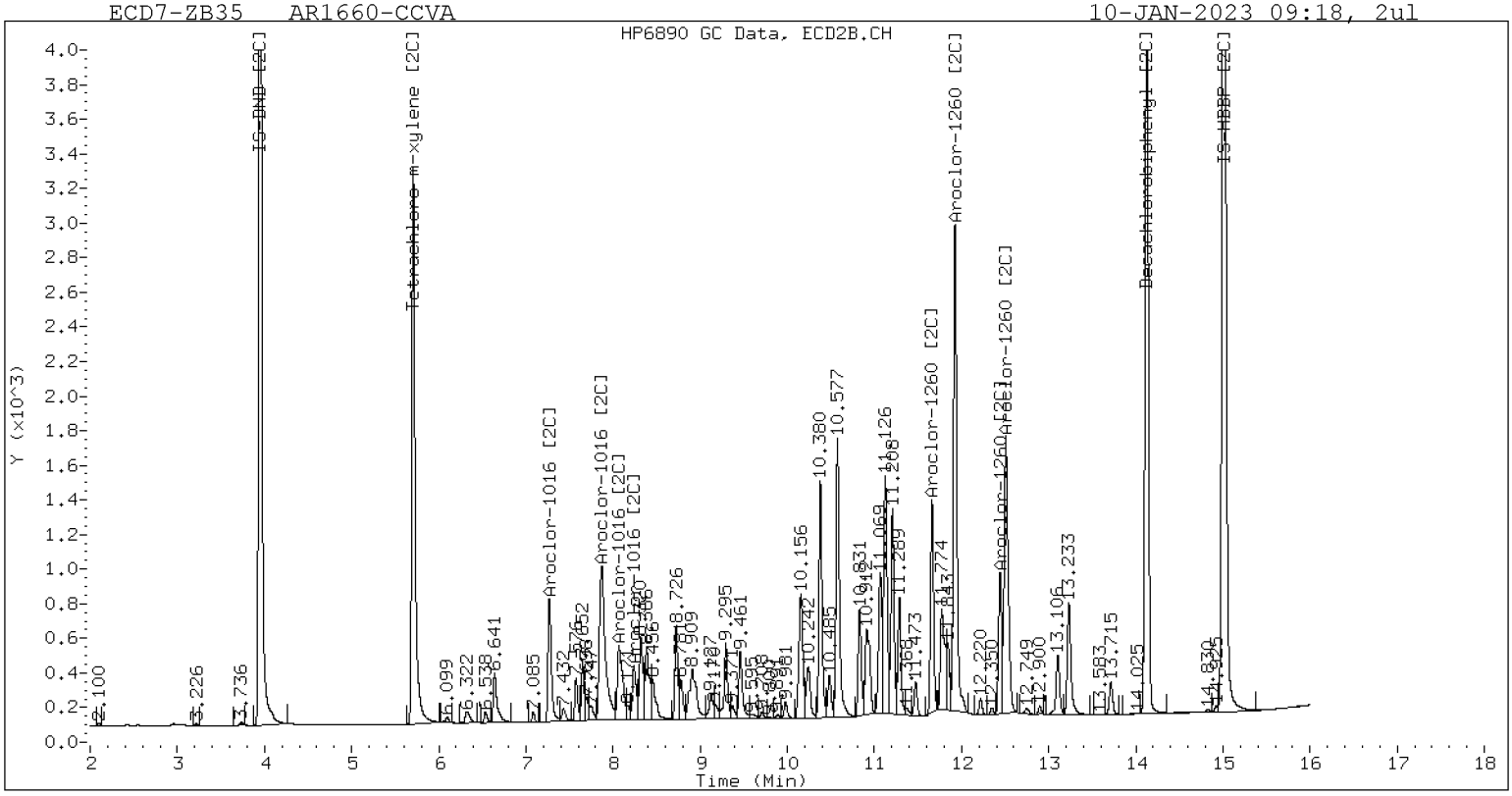
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCVA 10-JAN-2023 09:18, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCVA 10-JAN-2023 09:18, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092383ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCVB	Injection Time:	13:52
Sequence Name:	AR1254CCVB		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1242	A	250.00	273	0.0396000	0.0427404		9.1	+/-20
Aroclor-1242 (1)	A	250.00	274		0.0248409			
Aroclor-1242 (2)	A	250.00	268		0.0771950			
Aroclor-1242 (3)	A	250.00	286		0.0237132			
Aroclor-1242 (4)	A	250.00	263		0.0452127			
Aroclor 1242 [2C]	A	250.00	275	0.0391981	0.0426220		10.0	+/-20
Aroclor-1242 (1) [2C]	A	250.00	261		0.0353722			
Aroclor-1242 (2) [2C]	A	250.00	267		0.0766502			
Aroclor-1242 (3) [2C]	A	250.00	285		0.0264448			
Aroclor-1242 (4) [2C]	A	250.00	287		0.0320209			
Decachlorobiphenyl	A	40.000	38.9	0.7333327	0.7136538		-2.7	+/-20
Tetrachlorometaxylene	A	40.000	39.6	1.1336710	1.1213250		-1.1	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.9	1.1358180	1.2195290		7.4	+/-20
Tetrachlorometaxylene [2C]	A	40.000	38.3	1.0966080	1.0504100		-4.2	+/-20

* Values outside of QC limits

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092383ECD7.D
Data file 2: /230109.b/230109.b/01092383ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1242.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1242-CCVB
Client ID:
Injection Date: 10-JAN-2023 13:52
Report Date: 01/13/2023 16:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.831	-0.005	249622	5.707	-0.006	165741	39.6	38.3	3.2	Tetrachloro-m-xylene
13.902	-0.006	350009	14.127	-0.010	300617	38.9	42.9	9.8	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	445227	-0.5
Hexabromobiphenyl	798898	980893	22.8

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	315574	26.7
Hexabromobiphenyl	362541	493005	36.0

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

		ZB5 Col					ZB35 Col			
Aroclor	Peak#	RT	Shift	Area	Amount	Peak#	RT	Shift	Area	Amount
Aroclor-1242	1	7.289	-0.006	34562	273.9	1	7.270	-0.007	34883	261.2
Aroclor-1242	2	7.681	-0.004	107404	268.1	2	7.872	-0.002	75590	266.6
Aroclor-1242	3	8.424	-0.006	32993	286.2	3	9.177	-0.001	26079	285.1
Aroclor-1242	4	9.016	-0.015	62906	262.8	4	9.607	0.002	31578	287.2
Total Col1Ave (4 peaks):					272.7	Total Col2Ave (4 peaks):				275.0 RPD = 1
Corrected Ave (3 peaks):					268.2	Corrected Ave (3 peaks):				271.0 RPD = 1

Total PCB Area Col1 (5.936 - 13.808) = 887772 Col1 Total PCB = 0.2 ppm*

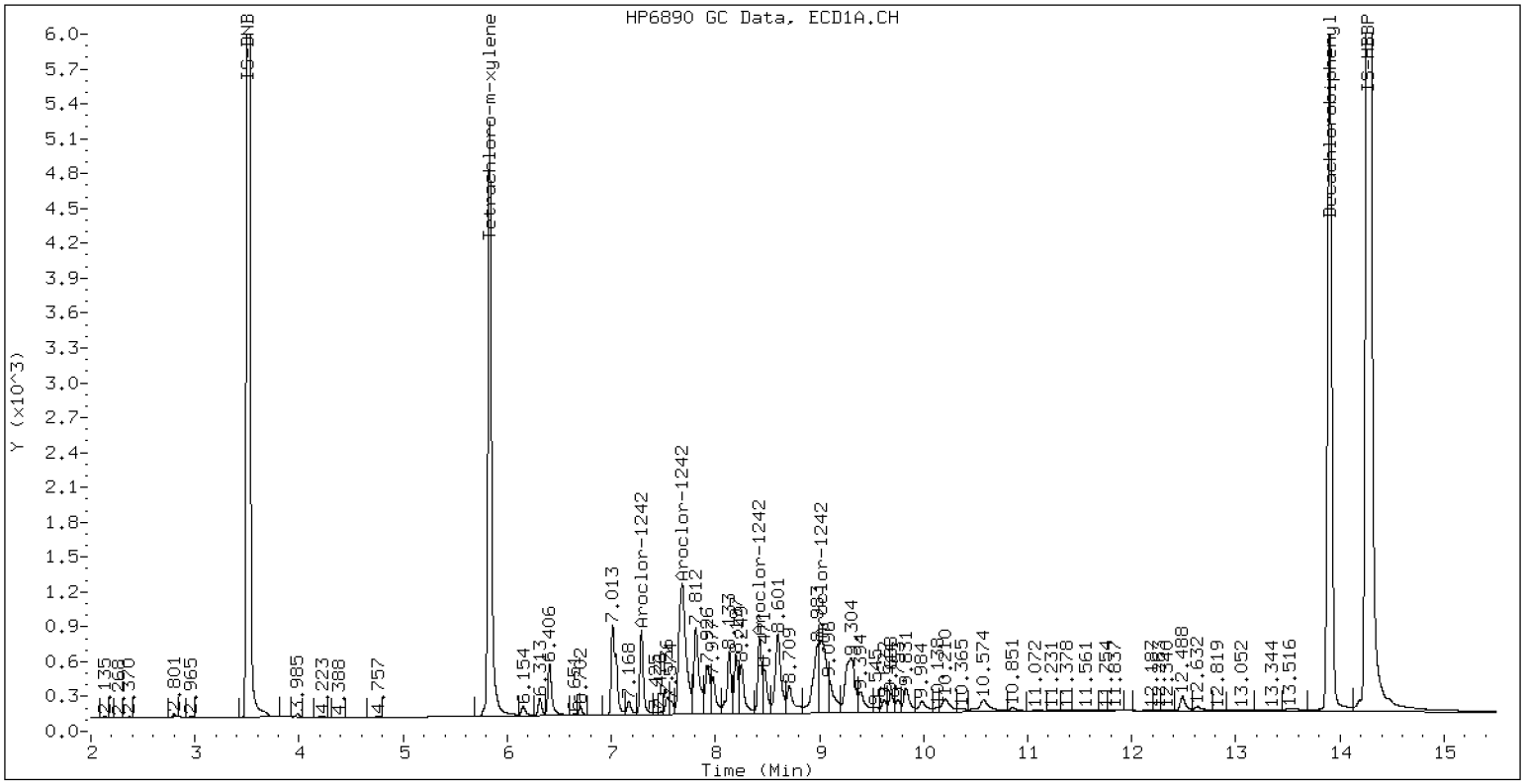
Total PCB Area Col2 (5.813 - 14.037) = 561945 Col2 Total PCB = 0.2 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

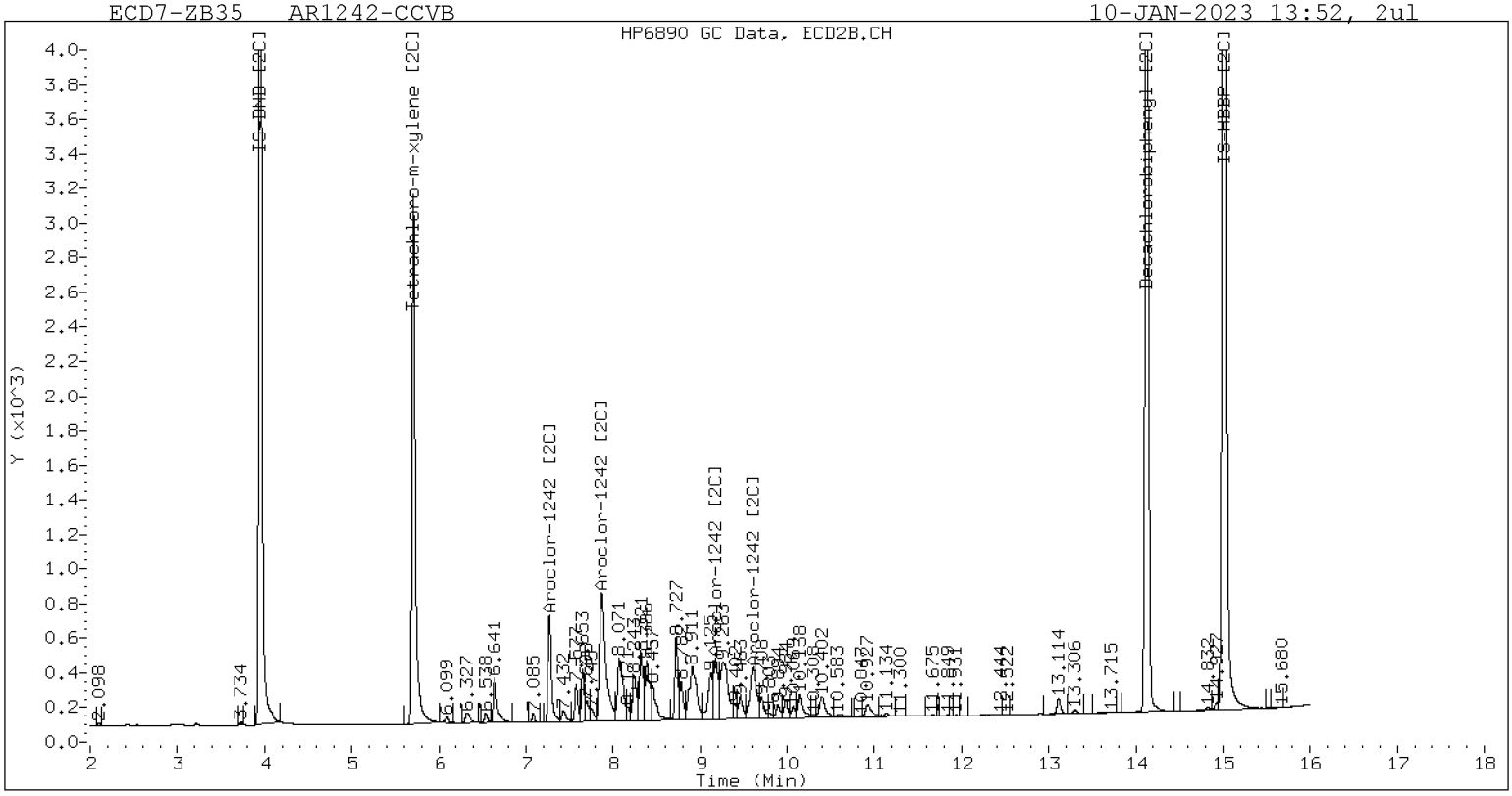
PCB Dual Column Chromatograms

ECD7-ZB5 AR1242-CCVB 10-JAN-2023 13:52, 2ul



ZB-5 Manual Integration: YES

ECD7-ZB35 AR1242-CCVB 10-JAN-2023 13:52, 2ul

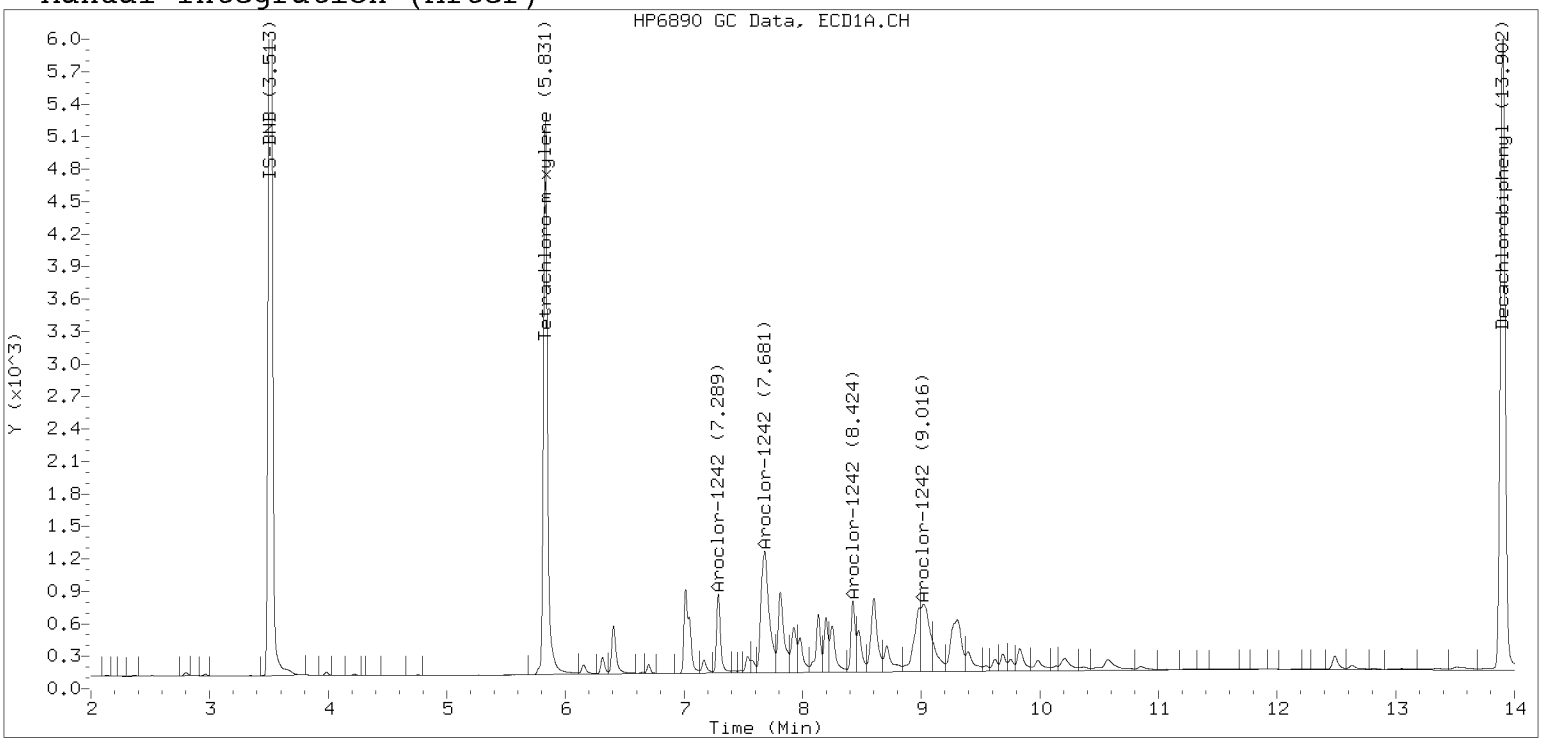


ZB-35 Manual Integration: NO

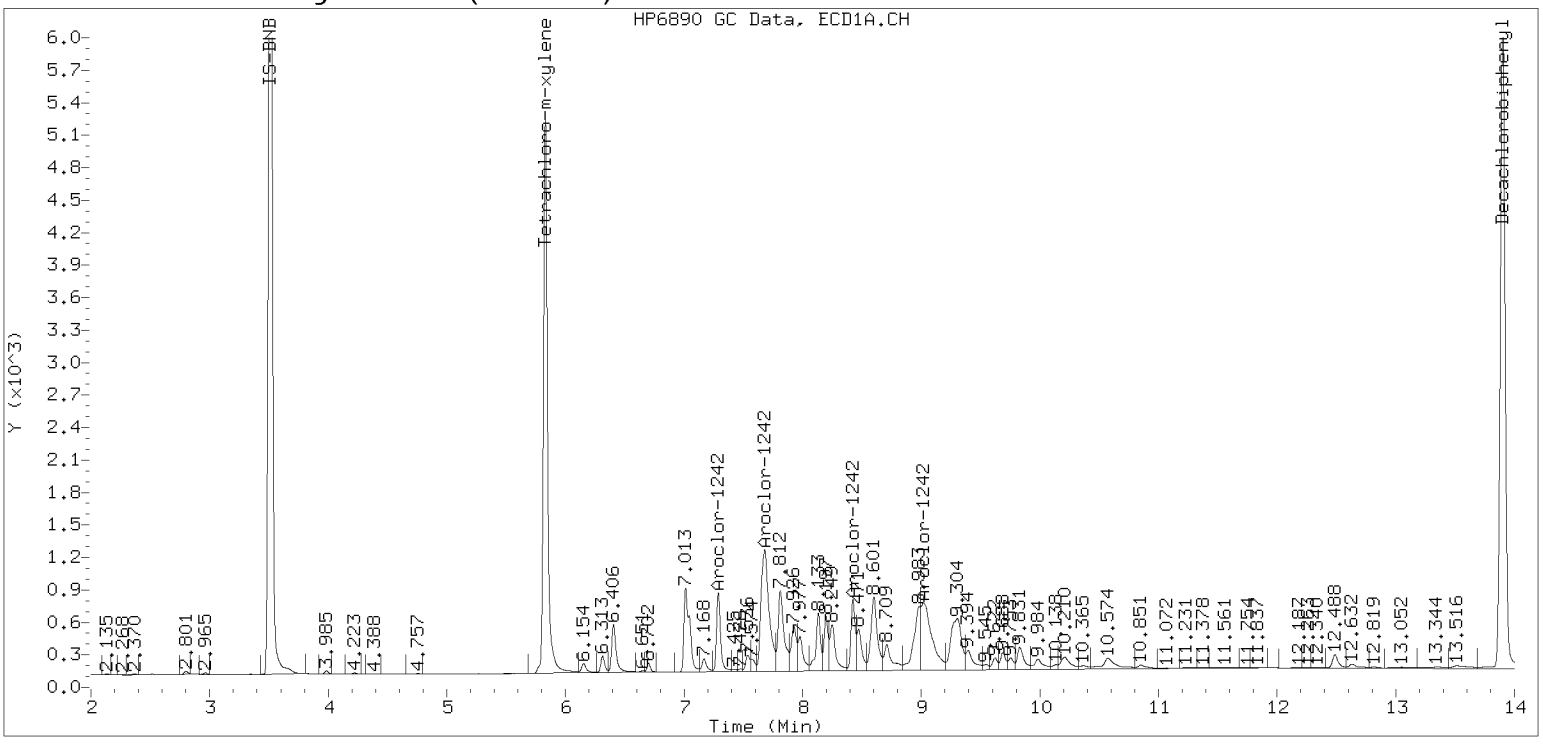
Manual Peak Adjustment, ZB-5

Datafile: ecd7.i/230109.b/01092383ECD7.D Injection Date: 10-JAN-2023 13:52

Manual Integration (After)



Processed Integration (Before)



Analytical Resources, LLC
Analytical Chemists and Consultants

CONTINUING CALIBRATION CHECK
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Instrument ID:	ECD7	Calibration:	FL00010
Lab File ID:	01092384ECD7.D	Calibration Date:	12/03/2022
Sequence:	SLA0129	Injection Date:	01/10/23
Lab Sample ID:	SLA0129-CCVC	Injection Time:	14:13
Sequence Name:	AR1660CCVC		

		CONC. (ug/L)		RESPONSE FACTOR (RRF)			% DRIFT/DIFF	
COMPOUND	TYPE	STD	CCV	ICAL	CCV	MIN	CCV	LIMIT
Aroclor 1016	A	250.00	274	0.0441939	0.0480882		9.8	+/-20
Aroclor-1016 (1)	A	250.00	267	0.0266860	0.0284921		6.8	
Aroclor-1016 (2)	A	250.00	265	0.0861572	0.0913451		6.0	
Aroclor-1016 (3)	A	250.00	286	0.0390425	0.0446140		14.3	
Aroclor-1016 (4)	A	250.00	280	0.0248899	0.0279014		12.1	
Aroclor 1016 [2C]	A	250.00	253	0.0467310	0.0471526		1.1	+/-20
Aroclor-1016 (1) [2C]	A	250.00	249	0.0409030	0.0406608		-0.6	
Aroclor-1016 (2) [2C]	A	250.00	253	0.0882154	0.0892109		1.1	
Aroclor-1016 (3) [2C]	A	250.00	252	0.0378846	0.0381792		0.8	
Aroclor-1016 (4) [2C]	A	250.00	258	0.0199212	0.0205596		3.2	
Aroclor 1260	A	250.00	277	0.0390342	0.0432665		10.7	+/-20
Aroclor-1260 (1)	A	250.00	278	0.0291201	0.0323572		11.1	
Aroclor-1260 (2)	A	250.00	282	0.0301181	0.0340238		13.0	
Aroclor-1260 (3)	A	250.00	280	0.0791351	0.0885721		11.9	
Aroclor-1260 (4)	A	250.00	268	0.0403003	0.0431336		7.0	
Aroclor-1260 (5)	A	250.00	276	0.0164974	0.0182458		10.6	
Aroclor 1260 [2C]	A	250.00	277	0.0617619	0.0691789		10.9	+/-20
Aroclor-1260 (1) [2C]	A	250.00	273	0.0422283	0.0461344		9.2	
Aroclor-1260 (2) [2C]	A	250.00	285	0.1059643	0.1207500		14.0	
Aroclor-1260 (3) [2C]	A	250.00	270	0.0282173	0.0304883		8.0	
Aroclor-1260 (4) [2C]	A	250.00	281	0.0706376	0.0793428		12.3	
Decachlorobiphenyl	A	40.000	40.2	0.7333327	0.7368751		0.5	+/-20
Tetrachlorometaxylene	A	40.000	41.0	1.1336710	1.1632170		2.6	+/-20
Decachlorobiphenyl [2C]	A	40.000	42.4	1.1358180	1.2051800		6.1	+/-20
Tetrachlorometaxylene [2C]	A	40.000	40.0	1.0966080	1.0966040		-0.0003	+/-20

* Values outside of QC limits

Analytical Resources Inc.
Dual Column 608/8082 PCB Quantitation Report

Data file 1: /230109.b/01092384ECD7.D
Data file 2: /230109.b/230109.b/01092384ECD7.D
Method: \\target\share\chem4\ecd7.i\230109.b\PCB.m
Compound Sublist: AR1660.sub
Instrument, Inj. Vol.: ecd7.i, 2ul
Quant Method: Internal Std

ARI ID: AR1660-CCVC
Client ID:
Injection Date: 10-JAN-2023 14:13
Report Date: 01/13/2023 16:04
Matrix: NONE
Dilution Factor: 1.0

SURROGATES

ZB5 Col			ZB35 Col			ZB5	ZB35		
RT	Shift	Response	RT	Shift	Response	on col	on col	RPD	Compound/Flag
5.830	-0.006	262769	5.707	-0.006	174206	41.0	40.0	2.6	Tetrachloro-m-xylene
13.903	-0.005	349970	14.127	-0.010	301985	40.2	42.4	5.4	Decachlorobiphenyl

* Indicates RPD > 40%

INTERNAL STANDARD SUMMARY

Column 1

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	447645	451797	0.9
Hexabromobiphenyl	798898	949876	18.9

Column 2

Standard Cpnd	Standard Area*	Sample Area	%D
Bromo-Nitrobenzene	249094	317719	27.5
Hexabromobiphenyl	362541	501145	38.2

* Standard Areas taken from Initial Cal Level 3
Initial Calibration Date: 03-DEC-2022
<- Indicates standard response outside Limits (-50 to +100%)

Aroclor	Peak#	ZB5 Col RT	Shift	Area	Amount	Peak#	ZB35 Col RT	Shift	Area	Amount
Aroclor-1016	1	7.289	-0.005	40227	266.9	1	7.270	-0.005	40371	248.5
Aroclor-1016	2	7.678	-0.007	128967	265.1	2	7.871	0.000	88575	252.8
Aroclor-1016	3	7.812	-0.006	62989	285.7	3	8.070	0.000	37907	251.9
Aroclor-1016	4	8.422	-0.007	39393	280.2	4	8.241	0.000	20413	258.0
	Total Col1Ave (4 peaks):				274.5		Total Col2Ave (4 peaks):			252.8 RPD = 8
	Corrected Ave (3 peaks):				270.7		Corrected Ave (3 peaks):			251.1 RPD = 8
Aroclor-1260	1	11.056	-0.006	96048	277.8	1	11.663	-0.007	72250	273.1
Aroclor-1260	2	11.373	-0.004	100995	282.4	2	11.926	-0.006	189104	284.9
Aroclor-1260	3	11.746	-0.005	262914	279.8	3	12.444	-0.007	47747	270.1
Aroclor-1260	4	12.150	-0.008	128036	267.6	4	12.509	-0.007	124257	280.8
Aroclor-1260	5	12.256	-0.006	54160	276.5	NS	---			----
	Total Col1Ave (5 peaks):				276.8		Total Col2Ave (4 peaks):			277.2 RPD = 0
	Corrected Ave (4 peaks):				275.4		Corrected Ave (3 peaks):			274.7 RPD = 0

Total PCB Area Col1 (5.936 - 13.808) = 2671793 Col1 Total PCB = 0.6 ppm*

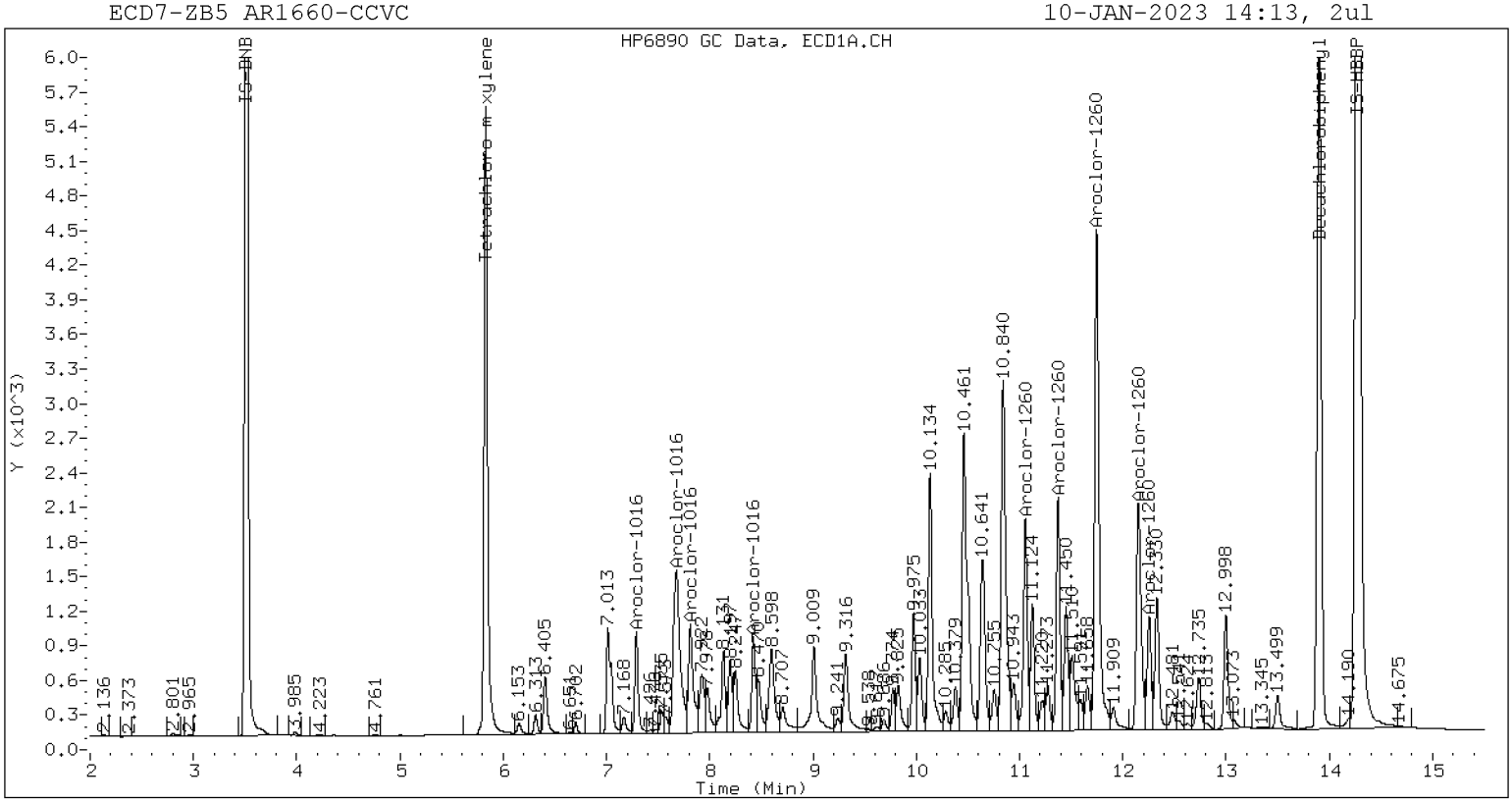
Total PCB Area Col2 (5.813 - 14.037) = 1707668 Col2 Total PCB = 0.6 ppm*

* Quantitated against AR1660 0.25ppm in Ical

PCB-Form 10 Mod.

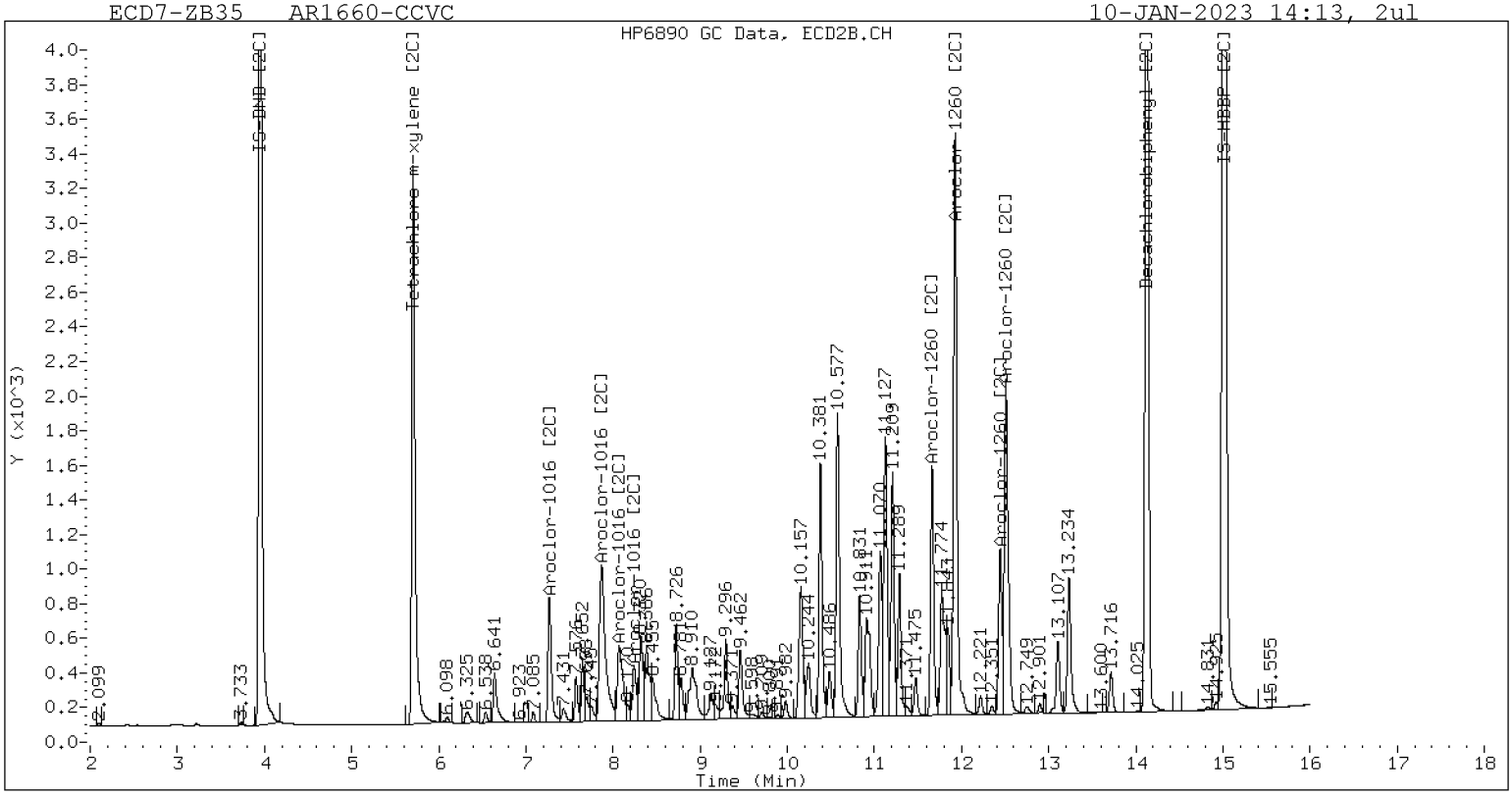
PCB Dual Column Chromatograms

ECD7-ZB5 AR1660-CCVC 10-JAN-2023 14:13, 2ul



ZB-5 Manual Integration: NO

ECD7-ZB35 AR1660-CCVC 10-JAN-2023 14:13, 2ul



ZB-35 Manual Integration: NO

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Cal Standard	SKL0048-CAL1	12032211ECD7.D	12032211ECD7.D	NA	12/03/22 18:19
Cal Standard	SKL0048-CAL2	12032212ECD7.D	12032212ECD7.D	NA	12/03/22 18:40
Cal Standard	SKL0048-CAL3	12032213ECD7.D	12032213ECD7.D	NA	12/03/22 19:01
Cal Standard	SKL0048-CAL4	12032214ECD7.D	12032214ECD7.D	NA	12/03/22 19:23
Cal Standard	SKL0048-CAL5	12032215ECD7.D	12032215ECD7.D	NA	12/03/22 19:44
Cal Standard	SKL0048-CAL6	12032216ECD7.D	12032216ECD7.D	NA	12/03/22 20:05
Cal Standard	SKL0048-CAL7	12032217ECD7.D	12032217ECD7.D	NA	12/03/22 20:26
Cal Standard	SKL0048-CAL8	12032218ECD7.D	12032218ECD7.D	NA	12/03/22 20:48
Cal Standard	SKL0048-CAL9	12032219ECD7.D	12032219ECD7.D	NA	12/03/22 21:09
Cal Standard	SKL0048-CALA	12032220ECD7.D	12032220ECD7.D	NA	12/03/22 21:30
Cal Standard	SKL0048-CALB	12032221ECD7.D	12032221ECD7.D	NA	12/03/22 21:52
Secondary Cal Check	SKL0048-SCV1	12032222ECD7.D	12032222ECD7.D	NA	12/03/22 22:13
Secondary Cal Check	SKL0048-SCV2	12032223ECD7.D	12032223ECD7.D	NA	12/03/22 22:34
Secondary Cal Check	SKL0048-SCV3	12032224ECD7.D	12032224ECD7.D	NA	12/03/22 22:55
Secondary Cal Check	SKL0048-SCV4	12032225ECD7.D	12032225ECD7.D	NA	12/03/22 23:17
Secondary Cal Check	SKL0048-SCV5	12032226ECD7.D	12032226ECD7.D	NA	12/03/22 23:38
Secondary Cal Check	SKL0048-SCV6	12032227ECD7.D	12032227ECD7.D	NA	12/03/22 23:59

ANALYSIS SEQUENCE

SKL0048

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SKL0048-CAL1	0.25PPM AR1660	QC		1	K006954	K006953		
SKL0048-CAL2	0.02PPM AR1660	QC		2	K010070	K006953		
SKL0048-CAL3	0.05PPM AR1660	QC		3	K010069	K006953		
SKL0048-CAL4	1PPM AR1660	QC		4	K006741	K006953		
SKL0048-CAL5	0.1PPM AR1660	QC		5	K010068	K006953		
SKL0048-CAL6	0.5PPM AR1660	QC		6	K010067	K006953		
SKL0048-CAL7	0.25PPM AR1242	QC		7	K006955	K006953		
SKL0048-CAL8	0.25PPM AR1248	QC		8	K006956	K006953		
SKL0048-CAL9	0.25PPM AR1254	QC		9	K006957	K006953		
SKL0048-CALA	0.25PPM AR2162	QC		10	K010071	K006953		
SKL0048-CALB	0.25PPM AR3268	QC		11	K010072	K006953		
SKL0048-SCV1	AR1660SCV1	QC		12	K007655	K006953		
SKL0048-SCV2	AR1242SCV2	QC		13	K007656	K006953		
SKL0048-SCV3	AR1248SCV3	QC		14	K007657	K006953		
SKL0048-SCV4	AR1254SCV4	QC		15	K007658	K006953		
SKL0048-SCV5	AR2162SCV5	QC		16	K007659	K006953		
SKL0048-SCV6	AR3268SCV6	QC		17	K007660	K006953		

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-DEC-2022 17:58	12032210ECD7.D	1	IB	
2	03-DEC-2022 18:19	12032211ECD7.D	1	0.25PPAR1660	
3	03-DEC-2022 18:40	12032212ECD7.D	1	0.02PPAR1660	
4	03-DEC-2022 19:01	12032213ECD7.D	1	0.05PPAR1660	
5	03-DEC-2022 19:23	12032214ECD7.D	1	1PPMAR1660	
6	03-DEC-2022 19:44	12032215ECD7.D	1	0.1PPMAR1660	
7	03-DEC-2022 20:05	12032216ECD7.D	1	0.5PPMAR1660	
8	03-DEC-2022 20:26	12032217ECD7.D	1	AR1242	
9	03-DEC-2022 20:48	12032218ECD7.D	1	AR1248	
10	03-DEC-2022 21:09	12032219ECD7.D	1	AR1254	
11	03-DEC-2022 21:30	12032220ECD7.D	1	AR2162	
12	03-DEC-2022 21:52	12032221ECD7.D	1	AR3268	
13	03-DEC-2022 22:13	12032222ECD7.D	1	AR1660SCV1	
14	03-DEC-2022 22:34	12032223ECD7.D	1	AR1242SCV2	
15	03-DEC-2022 22:55	12032224ECD7.D	1	AR1248SCV3	
16	03-DEC-2022 23:17	12032225ECD7.D	1	AR1254SCV4	
17	03-DEC-2022 23:38	12032226ECD7.D	1	AR2162SCV5	
18	03-DEC-2022 23:59	12032227ECD7.D	1	AR3268SCV6	
19	04-DEC-2022 00:20	12032228ECD7.D	1	0.1 PPM DDTS	
20	04-DEC-2022 00:42	12032229ECD7.D	1	DDT BD	
21	04-DEC-2022 01:03	12032230ECD7.D	1	AR1254ICV1	
22	04-DEC-2022 01:24	12032231ECD7.D	1	AR1660ICV2	
23	04-DEC-2022 01:46	12032232ECD7.D	1	BKK0834-BLK1	
24	04-DEC-2022 02:07	12032233ECD7.D	1	BKK0834-BS1	
25	04-DEC-2022 02:28	12032234ECD7.D	1	BKK0834-BSD1	
26	04-DEC-2022 02:49	12032235ECD7.D	1	22K0523-01	
27	04-DEC-2022 03:11	12032236ECD7.D	1	22K0525-01	
28	04-DEC-2022 03:32	12032237ECD7.D	1	BKK0374-BLK1	
29	04-DEC-2022 03:53	12032238ECD7.D	1	BKK0374-BS1	
30	04-DEC-2022 04:15	12032239ECD7.D	1	BKK0374-BSD1	
31	04-DEC-2022 04:36	12032240ECD7.D	1	22K0161-01	
32	04-DEC-2022 04:57	12032241ECD7.D	1	AR1248CCV1	
33	04-DEC-2022 05:18	12032242ECD7.D	1	AR1660CCV2	
34	04-DEC-2022 05:40	12032243ECD7.D	1	BKL0017-BLK1	
35	04-DEC-2022 06:01	12032244ECD7.D	1	BKL0017-BS1	
36	04-DEC-2022 06:22	12032245ECD7.D	1	BKL0017-BSD1	
37	04-DEC-2022 06:44	12032246ECD7.D	1	22J0139-01	
38	04-DEC-2022 07:05	12032247ECD7.D	1	BKK0383-BLK1	
39	04-DEC-2022 07:26	12032248ECD7.D	1	BKK0383-BS1	
40	04-DEC-2022 07:47	12032249ECD7.D	1	BKK0383-BSD	
41	04-DEC-2022 08:09	12032250ECD7.D	1	22K0075-01	
42	04-DEC-2022 08:30	12032251ECD7.D	1	BKK00803-BLK1	
43	04-DEC-2022 08:51	12032252ECD7.D	1	BKK00803-BS1	
44	04-DEC-2022 09:13	12032253ECD7.D	1	BKK00803-BSD1	
45	04-DEC-2022 09:34	12032254ECD7.D	1	22K0511-01	
46	04-DEC-2022 09:55	12032255ECD7.D	1	AR1242CCV3	
47	04-DEC-2022 10:17	12032256ECD7.D	1	AR1660CCV4	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\221203.b

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
1758	12032210ECD7.D	IB	1	NO MANUAL INTEGRATION
1819	12032211ECD7.D	0.25PPAR1660	1	NO MANUAL INTEGRATION
1840	12032212ECD7.D	0.02PPAR1660	1	NO MANUAL INTEGRATION
1901	12032213ECD7.D	0.05PPAR1660	1	NO MANUAL INTEGRATION
1923	12032214ECD7.D	1PPMAR1660	1	NO MANUAL INTEGRATION
1944	12032215ECD7.D	0.1PPMAR1660	1	NO MANUAL INTEGRATION
2005	12032216ECD7.D	0.5PPMAR1660	1	NO MANUAL INTEGRATION
2026	12032217ECD7.D	AR1242	1	Aroclor-1242,
2048	12032218ECD7.D	AR1248	1	NO MANUAL INTEGRATION
2109	12032219ECD7.D	AR1254	1	NO MANUAL INTEGRATION
2130	12032220ECD7.D	AR2162	1	NO MANUAL INTEGRATION
2152	12032221ECD7.D	AR3268	1	NO MANUAL INTEGRATION
2213	12032222ECD7.D	AR1660SCV1	1	NO MANUAL INTEGRATION
2234	12032223ECD7.D	AR1242SCV2	1	NO MANUAL INTEGRATION
2255	12032224ECD7.D	AR1248SCV3	1	NO MANUAL INTEGRATION
2317	12032225ECD7.D	AR1254SCV4	1	NO MANUAL INTEGRATION
2338	12032226ECD7.D	AR2162SCV5	1	NO MANUAL INTEGRATION

Instrument: ecd7.i Date: 03-DEC-2022

Time	Filename	LabID	DF	Manually Integrated Compounds
2359	12032227ECD7.D	AR3268SCV6	1	NO MANUAL INTEGRATION

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0079	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0079-ICV1	01032302ECD7.D	01032302ECD7.D	NA	01/03/23 07:15
Initial Cal Check	SLA0079-ICV2	01032303ECD7.D	01032303ECD7.D	NA	01/03/23 07:36
Calibration Check	SLA0079-CCV1	01032311ECD7.D	01032311ECD7.D	NA	01/03/23 11:48
Calibration Check	SLA0079-CCV2	01032312ECD7.D	01032312ECD7.D	NA	01/03/23 12:09
Calibration Check	SLA0079-CCV3	01032330ECD7.D	01032330ECD7.D	NA	01/03/23 18:28
Calibration Check	SLA0079-CCV4	01032331ECD7.D	01032331ECD7.D	NA	01/03/23 18:49
Blank	BKL0571-BLK1	01032332ECD7.D	01032332ECD7.D	Solid	01/03/23 19:10
LCS	BKL0571-BS1	01032333ECD7.D	01032333ECD7.D	Solid	01/03/23 19:31
LCS Dup	BKL0571-BSD1	01032334ECD7.D	01032334ECD7.D	Solid	01/03/23 19:52
MRL Check	BKL0571-MRL1	01032335ECD7.D	01032335ECD7.D	Solid	01/03/23 20:13
Reference	BKL0571-SRM1	01032336ECD7.D	01032336ECD7.D	Solid	01/03/23 20:34
LDW22-IT809G	BKL0571-MS1	01032337ECD7.D	01032337ECD7.D	Solid	01/03/23 20:55
LDW22-IT809G	BKL0571-MSD1	01032338ECD7.D	01032338ECD7.D	Solid	01/03/23 21:16
LDW22-IT809C	22L0246-44	01032342ECD7.D	01032342ECD7.D	Solid	01/03/23 22:41
LDW22-IT809D	22L0246-45	01032343ECD7.D	01032343ECD7.D	Solid	01/03/23 23:02
LDW22-IT809E	22L0246-46	01032344ECD7.D	01032344ECD7.D	Solid	01/03/23 23:23
LDW22-IT809F	22L0246-47	01032345ECD7.D	01032345ECD7.D	Solid	01/03/23 23:44
LDW22-IT809G	22L0246-48	01032346ECD7.D	01032346ECD7.D	Solid	01/04/23 00:05
Calibration Check	SLA0079-CCV5	01032347ECD7.D	01032347ECD7.D	NA	01/04/23 00:26
Calibration Check	SLA0079-CCV6	01032348ECD7.D	01032348ECD7.D	NA	01/04/23 00:47

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0079

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/7/2023 2:12:46PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0079-ICV1	QC		1		K006957	K006953		
SLA0079-ICV2	QC		2		K006954	K006953		
22L0199-61	8082A PCB Solid 4	B 01	3			K006953	Anchor QEA, LLC	
22L0199-62	8082A PCB Solid 4	B 01	4			K006953	Anchor QEA, LLC	
22L0307-08	8082A PCB Solid 4	B 01	5			K006953	Anchor QEA, LLC	
22L0307-09	8082A PCB Solid 4	B 01	6			K006953	Anchor QEA, LLC	
22L0307-10	8082A PCB Solid 4	B 01	7			K006953	Anchor QEA, LLC	
22L0199-31	8082A PCB Solid 4	B 01	8			K006953	Anchor QEA, LLC	
22L0199-32	8082A PCB Solid 4	B 01	9			K006953	Anchor QEA, LLC	
SLA0079-CCV1	QC		10		K006956	K006953		
SLA0079-CCV2	QC		11		K006954	K006953		
BKL0633-BLK1	QC		12			K006953		
BKL0633-BS1	QC		13			K006953		
BKL0633-BSD1	QC		14			K006953		
BKL0633-MRL1	QC		15			K006953		
22L0567-01	8082A PCB	A 01	16			K006953	The Boeing Company [Auburn]	
22L0567-02	8082A PCB	A 01	17			K006953	The Boeing Company [Auburn]	
22L0567-03	8082A PCB	A 01	18			K006953	The Boeing Company [Auburn]	
BKL0708-BLK1	QC		19			K006953		
BKL0708-BS1	QC		20			K006953		
BKL0708-MRL1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0079

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/7/2023 2:12:46PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0635-01	082A PCB Medium Level Oil	A 01	22			K006953	Spectra Laboratories	
22L0199-44	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
22L0199-45	8082A PCB Solid 4	B 01	24			K006953	Anchor QEA, LLC	
SLA0079-CCV3	QC		25		K006955	K006953		
SLA0079-CCV4	QC		26		K006954	K006953		
BKL0571-BLK1	QC		27			K006953		
BKL0571-BS1	QC		28			K006953		
BKL0571-BSD1	QC		29			K006953		
BKL0571-MRL1	QC		30			K006953		
BKL0571-SRM1	QC		31			K006953		
BKL0571-MS1	QC		32			K006953		
BKL0571-MSD1	QC		33			K006953		
22L0246-44	8082A PCB Solid 4	C 02	34			K006953	Anchor QEA, LLC	
22L0246-45	8082A PCB Solid 4	C 02	35			K006953	Anchor QEA, LLC	
22L0246-46	8082A PCB Solid 4	C 02	36			K006953	Anchor QEA, LLC	
22L0246-47	8082A PCB Solid 4	C 02	37			K006953	Anchor QEA, LLC	
22L0246-48	8082A PCB Solid 4	C 02	38			K006953	Anchor QEA, LLC	
SLA0079-CCV5	QC		39		K006957	K006953		
SLA0079-CCV6	QC		40		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	03-JAN-2023 06:54	01032301.D	1	DDTS	
2	03-JAN-2023 07:15	01032302.D	1	AR1254ICV1	
3	03-JAN-2023 07:36	01032303.D	1	AR1660ICV2	
4	03-JAN-2023 09:20	01032304.D	10	22L0199-61RE1	
5	03-JAN-2023 09:41	01032305.D	10	22L0199-62RE1	
6	03-JAN-2023 10:02	01032306.D	10	22L0307-08RE1	
7	03-JAN-2023 10:23	01032307.D	5	22L0307-09RE1	
8	03-JAN-2023 10:44	01032308.D	5	22L0307-10RE1	
9	03-JAN-2023 11:06	01032309.D	10	22L0199-31RE1	
10	03-JAN-2023 11:27	01032310.D	5	22L0199-32RE1	
11	03-JAN-2023 11:48	01032311.D	1	AR1248CCV1	
12	03-JAN-2023 12:09	01032312.D	1	AR1660CCV2	
13	03-JAN-2023 12:30	01032313.D	1	BKL0633-BLK1	
14	03-JAN-2023 12:51	01032314.D	1	BKL0633-BS1	
15	03-JAN-2023 13:12	01032315.D	1	BKL0633-BSD1	
16	03-JAN-2023 13:33	01032316.D	1	BKL0633-MRL1	
17	03-JAN-2023 13:54	01032317.D	1	22L0567-01	
18	03-JAN-2023 14:15	01032318.D	1	22L0567-02	
19	03-JAN-2023 14:36	01032319.D	1	22L0567-03	
20	03-JAN-2023 14:57	01032320.D	1	BKL0708-BLK1	
21	03-JAN-2023 15:18	01032321.D	1	BKL0708-BS1	
22	03-JAN-2023 15:39	01032322.D	1	BKL0708-MRL1	
23	03-JAN-2023 16:01	01032323.D	1	22L0633-01	
24	03-JAN-2023 16:22	01032324.D	5	22L0633-01RE1	
25	03-JAN-2023 16:43	01032325.D	1	22L0635-01	
26	03-JAN-2023 17:04	01032326.D	5	22L0635-01RE1	
27	03-JAN-2023 17:25	01032327.D	10	22L0199-44RE2	
28	03-JAN-2023 17:46	01032328.D	10	22L0199-45RE2	
29	03-JAN-2023 18:07	01032329.D	5	22L0199-07RE2	
30	03-JAN-2023 18:28	01032330.D	1	AR1242CCV3	
31	03-JAN-2023 18:49	01032331.D	1	AR1660CCV4	
32	03-JAN-2023 19:10	01032332.D	1	BKL0571-BLK1	
33	03-JAN-2023 19:31	01032333.D	1	BKL0571-BS1	
34	03-JAN-2023 19:52	01032334.D	1	BKL0571-BSD1	
35	03-JAN-2023 20:13	01032335.D	1	BKL0571-MRL1	
36	03-JAN-2023 20:34	01032336.D	1	BKL0571-SRM1	
37	03-JAN-2023 20:55	01032337.D	1	BKL0571-MS1	
38	03-JAN-2023 21:16	01032338.D	1	BKL0571-MSD1	
39	03-JAN-2023 21:37	01032339.D	1	22L0246-41	
40	03-JAN-2023 21:58	01032340.D	1	22L0246-42	
41	03-JAN-2023 22:19	01032341.D	1	22L0246-43	
42	03-JAN-2023 22:41	01032342.D	1	22L0246-44	
43	03-JAN-2023 23:02	01032343.D	1	22L0246-45	
44	03-JAN-2023 23:23	01032344.D	1	22L0246-46	
45	03-JAN-2023 23:44	01032345.D	1	22L0246-47	
46	04-JAN-2023 00:05	01032346.D	1	22L0246-48	
47	04-JAN-2023 00:26	01032347.D	1	AR1254CCV5	
48	04-JAN-2023 00:47	01032348.D	1	AR1660CCV6	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 03-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0654	01032301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0715	01032302ECD7.D	AR1254ICV1		1	Aroclor-1254,
0736	01032303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0920	01032304ECD7.D	22L0199-61RE1		10	NO MANUAL INTEGRATION
0941	01032305ECD7.D	22L0199-62RE1		10	Aroclor-1254,
1002	01032306ECD7.D	22L0307-08RE1		10	Aroclor-1254,
1023	01032307ECD7.D	22L0307-09RE1		5	NO MANUAL INTEGRATION
1044	01032308ECD7.D	22L0307-10RE1		5	NO MANUAL INTEGRATION
1106	01032309ECD7.D	22L0199-31RE1		10	NO MANUAL INTEGRATION
1127	01032310ECD7.D	22L0199-32RE1		5	NO MANUAL INTEGRATION
1148	01032311ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1209	01032312ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1230	01032313ECD7.D	BKL0633-BLK1		1	NO MANUAL INTEGRATION
1251	01032314ECD7.D	BKL0633-BS1		1	NO MANUAL INTEGRATION
1312	01032315ECD7.D	BKL0633-BSD1		1	NO MANUAL INTEGRATION
1333	01032316ECD7.D	BKL0633-MRL1		1	NO MANUAL INTEGRATION
1354	01032317ECD7.D	22L0567-01		1	IS-HBBP, Decachlorobiphenyl,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1415	01032318ECD7.D	22L0567-02		1	IS-HBBP, Decachlorobiphenyl,
1436	01032319ECD7.D	22L0567-03		1	NO MANUAL INTEGRATION
1457	01032320ECD7.D	BKL0708-BLK1		1	NO MANUAL INTEGRATION
1518	01032321ECD7.D	BKL0708-BS1		1	NO MANUAL INTEGRATION
1539	01032322ECD7.D	BKL0708-MRL1		1	NO MANUAL INTEGRATION
1601	01032323ECD7.D	22L0633-01		1	NO MANUAL INTEGRATION
1622	01032324ECD7.D	22L0633-01RE1		5	NO MANUAL INTEGRATION
1643	01032325ECD7.D	22L0635-01		1	IS-HBBP, Decachlorobiphenyl,
1704	01032326ECD7.D	22L0635-01RE1		5	NO MANUAL INTEGRATION
1725	01032327ECD7.D	22L0199-44RE2		10	Aroclor-1254,
1746	01032328ECD7.D	22L0199-45RE2		10	NO MANUAL INTEGRATION
1807	01032329ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1828	01032330ECD7.D	AR1242CCV3		1	Aroclor-1242,
1849	01032331ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1910	01032332ECD7.D	BKL0571-BLK1		1	NO MANUAL INTEGRATION
1931	01032333ECD7.D	BKL0571-BS1		1	NO MANUAL INTEGRATION
1952	01032334ECD7.D	BKL0571-BSD1		1	NO MANUAL INTEGRATION
2013	01032335ECD7.D	BKL0571-MRL1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2034	01032336ECD7.D	BKL0571-SRM1		1	NO MANUAL INTEGRATION
2055	01032337ECD7.D	BKL0571-MS1		1	NO MANUAL INTEGRATION
2116	01032338ECD7.D	BKL0571-MSD1		1	NO MANUAL INTEGRATION
2137	01032339ECD7.D	22L0246-41		1	NO MANUAL INTEGRATION
2158	01032340ECD7.D	22L0246-42		1	NO MANUAL INTEGRATION
2219	01032341ECD7.D	22L0246-43		1	Aroclor-1254,
2241	01032342ECD7.D	22L0246-44		1	Aroclor-1254,
2302	01032343ECD7.D	22L0246-45		1	NO MANUAL INTEGRATION
2323	01032344ECD7.D	22L0246-46		1	NO MANUAL INTEGRATION
2344	01032345ECD7.D	22L0246-47		1	NO MANUAL INTEGRATION
0005	01032346ECD7.D	22L0246-48		1	NO MANUAL INTEGRATION
0026	01032347ECD7.D	AR1254CCV5		1	Aroclor-1254,
0047	01032348ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0654	01032301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0715	01032302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
0736	01032303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
0920	01032304ECD7.D	22L0199-61RE1		10	NO MANUAL INTEGRATION
0941	01032305ECD7.D	22L0199-62RE1		10	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1002	01032306ECD7.D	22L0307-08RE1		10	NO MANUAL INTEGRATION
1023	01032307ECD7.D	22L0307-09RE1		5	NO MANUAL INTEGRATION
1044	01032308ECD7.D	22L0307-10RE1		5	NO MANUAL INTEGRATION
1106	01032309ECD7.D	22L0199-31RE1		10	NO MANUAL INTEGRATION
1127	01032310ECD7.D	22L0199-32RE1		5	Aroclor-1248 [2C],
1148	01032311ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1209	01032312ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1230	01032313ECD7.D	BKL0633-BLK1		1	NO MANUAL INTEGRATION
1251	01032314ECD7.D	BKL0633-BS1		1	NO MANUAL INTEGRATION
1312	01032315ECD7.D	BKL0633-BSD1		1	NO MANUAL INTEGRATION
1333	01032316ECD7.D	BKL0633-MRL1		1	NO MANUAL INTEGRATION
1354	01032317ECD7.D	22L0567-01		1	Decachlorobiphenyl [2C],
1415	01032318ECD7.D	22L0567-02		1	NO MANUAL INTEGRATION
1436	01032319ECD7.D	22L0567-03		1	NO MANUAL INTEGRATION
1457	01032320ECD7.D	BKL0708-BLK1		1	NO MANUAL INTEGRATION
1518	01032321ECD7.D	BKL0708-BS1		1	NO MANUAL INTEGRATION
1539	01032322ECD7.D	BKL0708-MRL1		1	NO MANUAL INTEGRATION
1601	01032323ECD7.D	22L0633-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1622	01032324ECD7.D	22L0633-01RE1		5	NO MANUAL INTEGRATION
1643	01032325ECD7.D	22L0635-01		1	NO MANUAL INTEGRATION
1704	01032326ECD7.D	22L0635-01RE1		5	NO MANUAL INTEGRATION
1725	01032327ECD7.D	22L0199-44RE2		10	Aroclor-1248 [2C],
1746	01032328ECD7.D	22L0199-45RE2		10	Aroclor-1248 [2C], Aroclor-1254 [2C], Tetrachloro-m-xylene [2C],
1807	01032329ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1828	01032330ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
1849	01032331ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
1910	01032332ECD7.D	BKL0571-BLK1		1	NO MANUAL INTEGRATION
1931	01032333ECD7.D	BKL0571-BS1		1	NO MANUAL INTEGRATION
1952	01032334ECD7.D	BKL0571-BSD1		1	NO MANUAL INTEGRATION
2013	01032335ECD7.D	BKL0571-MRL1		1	NO MANUAL INTEGRATION
2034	01032336ECD7.D	BKL0571-SRM1		1	NO MANUAL INTEGRATION
2055	01032337ECD7.D	BKL0571-MS1		1	NO MANUAL INTEGRATION
2116	01032338ECD7.D	BKL0571-MSD1		1	NO MANUAL INTEGRATION
2137	01032339ECD7.D	22L0246-41		1	NO MANUAL INTEGRATION
2158	01032340ECD7.D	22L0246-42		1	NO MANUAL INTEGRATION
2219	01032341ECD7.D	22L0246-43		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230103.b\230103.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2241	01032342ECD7.D	22L0246-44		1	Aroclor-1254 [2C],
2302	01032343ECD7.D	22L0246-45		1	Aroclor-1260 [2C],
2323	01032344ECD7.D	22L0246-46		1	NO MANUAL INTEGRATION
2344	01032345ECD7.D	22L0246-47		1	NO MANUAL INTEGRATION
0005	01032346ECD7.D	22L0246-48		1	NO MANUAL INTEGRATION
0026	01032347ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0047	01032348ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

Security Status Report

Date: 07-Jan-2023 14:51

01032301ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032302ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032303ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032304ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032305ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032306ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032307ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032308ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032309ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032310ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032311ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032312ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032313ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032314ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032315ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032316ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032317ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032318ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032319ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032320ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032322ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032323ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032324ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032325ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032326ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032327ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032328ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032329ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032330ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032331ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032332ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032333ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032334ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032335ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
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01032337ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032338ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032339ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032340ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032341ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032342ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032343ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032344ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51

01032345ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032346ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032347ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51
01032348ECD7.D	Data Locked	richardl, 07-Jan-2023 14:51

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0094-ICV1	01042302ECD7.D	01042302ECD7.D	NA	01/04/23 09:44
Initial Cal Check	SLA0094-ICV2	01042303ECD7.D	01042303ECD7.D	NA	01/04/23 10:05
LDW22-SC759B	22L0246-41	01042304ECD7.D	01042304ECD7.D	Solid	01/04/23 10:26
LDW22-IT809A	22L0246-42	01042305ECD7.D	01042305ECD7.D	Solid	01/04/23 10:47
LDW22-IT809B	22L0246-43	01042306ECD7.D	01042306ECD7.D	Solid	01/04/23 11:08
Calibration Check	SLA0094-CCV1	01042320ECD7.D	01042320ECD7.D	NA	01/04/23 16:03
Calibration Check	SLA0094-CCV2	01042321ECD7.D	01042321ECD7.D	NA	01/04/23 16:25
Blank	BKL0492-BLK1	01042322ECD7.D	01042322ECD7.D	Solid	01/04/23 16:46
LCS	BKL0492-BS1	01042323ECD7.D	01042323ECD7.D	Solid	01/04/23 17:07
LCS Dup	BKL0492-BSD1	01042324ECD7.D	01042324ECD7.D	Solid	01/04/23 17:28
Reference	BKL0492-SRM1	01042325ECD7.D	01042325ECD7.D	Solid	01/04/23 17:49
LDW22-SC759E	BKL0492-MS1	01042326ECD7.D	01042326ECD7.D	Solid	01/04/23 18:10
LDW22-SC759E	BKL0492-MSD1	01042327ECD7.D	01042327ECD7.D	Solid	01/04/23 18:31
LDW22-SC779H	22L0246-23	01042330ECD7.D	01042330ECD7.D	Solid	01/04/23 19:34
LDW22-SC779I	22L0246-24	01042331ECD7.D	01042331ECD7.D	Solid	01/04/23 19:56
LDW22-SC779J	22L0246-25	01042332ECD7.D	01042332ECD7.D	Solid	01/04/23 20:17
LDW22-SC777A	22L0246-26	01042333ECD7.D	01042333ECD7.D	Solid	01/04/23 20:38
LDW22-SC777B	22L0246-27	01042334ECD7.D	01042334ECD7.D	Solid	01/04/23 20:59
LDW22-SC777E	22L0246-30	01042337ECD7.D	01042337ECD7.D	Solid	01/04/23 22:02
Calibration Check	SLA0094-CCV3	01042338ECD7.D	01042338ECD7.D	NA	01/04/23 22:23
Calibration Check	SLA0094-CCV4	01042339ECD7.D	01042339ECD7.D	NA	01/04/23 22:44
LDW22-SC777F	22L0246-31	01042340ECD7.D	01042340ECD7.D	Solid	01/04/23 23:06
LDW22-SC777G	22L0246-32	01042341ECD7.D	01042341ECD7.D	Solid	01/04/23 23:27
LDW22-SC777H	22L0246-33	01042342ECD7.D	01042342ECD7.D	Solid	01/04/23 23:48
LDW22-SC759E	22L0246-37	01042346ECD7.D	01042346ECD7.D	Solid	01/05/23 01:12
LDW22-SC759F	22L0246-38	01042347ECD7.D	01042347ECD7.D	Solid	01/05/23 01:33
LDW22-SC759G	22L0246-39	01042348ECD7.D	01042348ECD7.D	Solid	01/05/23 01:55
LDW22-SC759H	22L0246-40	01042349ECD7.D	01042349ECD7.D	Solid	01/05/23 02:16
Calibration Check	SLA0094-CCV5	01042350ECD7.D	01042350ECD7.D	NA	01/05/23 02:37

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
		Calibration:	FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Calibration Check	SLA0094-CCV6	01042351ECD7.D	01042351ECD7.D	NA	01/05/23 02:58
Calibration Check	SLA0094-CCV7	01042357ECD7.D	01042357ECD7.D	NA	01/05/23 05:05
Calibration Check	SLA0094-CCV8	01042358ECD7.D	01042358ECD7.D	NA	01/05/23 05:26
Blank	BKL0490-BLK1	01042359ECD7.D	01042359ECD7.D	Solid	01/05/23 05:47
LCS	BKL0490-BS1	01042360ECD7.D	01042360ECD7.D	Solid	01/05/23 06:08
LCS Dup	BKL0490-BSD1	01042361ECD7.D	01042361ECD7.D	Solid	01/05/23 06:29
Reference	BKL0490-SRM1	01042362ECD7.D	01042362ECD7.D	Solid	01/05/23 06:50
LDW22-IT810G	BKL0490-MS1	01042363ECD7.D	01042363ECD7.D	Solid	01/05/23 07:11
LDW22-IT810G	BKL0490-MSD1	01042364ECD7.D	01042364ECD7.D	Solid	01/05/23 07:32
LDW22-IT810B	22L0246-08	01042372ECD7.D	01042372ECD7.D	Solid	01/05/23 10:21
LDW22-IT810B-FD	22L0246-10	01042374ECD7.D	01042374ECD7.D	Solid	01/05/23 11:04
Calibration Check	SLA0094-CCV9	01042375ECD7.D	01042375ECD7.D	NA	01/05/23 11:25
Calibration Check	SLA0094-CCVA	01042376ECD7.D	01042376ECD7.D	NA	01/05/23 11:46

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/9/2023 4:00:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0094-ICV1	QC		1		K006957	K006953		
SLA0094-ICV2	QC		2		K006954	K006953		
22L0246-41	8082A PCB Solid 4	B 01	3			K006953	Anchor QEA, LLC	
22L0246-42	8082A PCB Solid 4	C 02	4			K006953	Anchor QEA, LLC	
22L0246-43	8082A PCB Solid 4	C 02	5			K006953	Anchor QEA, LLC	
22L0199-07	8082A PCB Solid 4	B 01	6			K006953	Anchor QEA, LLC	
BKL0685-BLK1	QC		7			K006953		
BKL0685-BS1	QC		8			K006953		
BKL0685-BSD1	QC		9			K006953		
22L0600-01	PCB (20 ug/kg) or (MTCA 0.	C 01	10			K006953	Seattle Public Utilities	
22L0600-02	PCB (20 ug/kg) or (MTCA 0.	C 01	11			K006953	Seattle Public Utilities	
BKL0681-BLK1	QC		12			K006953		
BKL0681-BS1	QC		13			K006953		
BKL0681-BSD1	QC		14			K006953		
BKL0681-MRL1	QC		15			K006953		
22L0601-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	16			K006953	Nucor Steel Corporation	
22L0604-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	17			K006953	Nucor Steel Corporation	
22L0632-01	8.3 PCBs 0.01 ug/L or 20 ug/	A 01	18			K006953	Nucor Steel Corporation	
SLA0094-CCV1	QC		19		K006956	K006953		
SLA0094-CCV2	QC		20		K006954	K006953		
BKL0492-BLK1	QC		21			K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/9/2023 4:00:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
BKL0492-BS1	QC		22			K006953		
BKL0492-BSD1	QC		23			K006953		
BKL0492-SRM1	QC		24			K006953		
BKL0492-MS1	QC		25			K006953		
BKL0492-MSD1	QC		26			K006953		
22L0246-23	8082A PCB Solid 4	B 01	27			K006953	Anchor QEA, LLC	
22L0246-24	8082A PCB Solid 4	B 01	28			K006953	Anchor QEA, LLC	
22L0246-25	8082A PCB Solid 4	B 01	29			K006953	Anchor QEA, LLC	
22L0246-26	8082A PCB Solid 4	B 01	30			K006953	Anchor QEA, LLC	
22L0246-27	8082A PCB Solid 4	B 01	31			K006953	Anchor QEA, LLC	
22L0246-30	8082A PCB Solid 4	B 01	32			K006953	Anchor QEA, LLC	
SLA0094-CCV3	QC		33		K006955	K006953		
SLA0094-CCV4	QC		34		K006954	K006953		
22L0246-31	8082A PCB Solid 4	B 01	35			K006953	Anchor QEA, LLC	
22L0246-32	8082A PCB Solid 4	B 01	36			K006953	Anchor QEA, LLC	
22L0246-33	8082A PCB Solid 4	B 01	37			K006953	Anchor QEA, LLC	
22L0246-37	8082A PCB Solid 4	B 01	38			K006953	Anchor QEA, LLC	
22L0246-38	8082A PCB Solid 4	B 01	39			K006953	Anchor QEA, LLC	
22L0246-39	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0246-40	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
SLA0094-CCV5	QC		42		K006957	K006953		

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0094

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/9/2023 4:00:32PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0094-CCV6	QC		43		K006954	K006953		
22L0199-24	8082A PCB Solid 4	B 01	44			K006953	Anchor QEA, LLC	
BLA0021-BLK1	QC		45			K006953		
BLA0021-BS1	QC		46			K006953		
BLA0021-BSD1	QC		47			K006953		
22L0658-01	8082A PCB	A 02	48			K006953	The Boeing Company [Auburn]	
SLA0094-CCV7	QC		49		K006956	K006953		
SLA0094-CCV8	QC		50		K006954	K006953		
BKL0490-BLK1	QC		51			K006953		
BKL0490-BS1	QC		52			K006953		
BKL0490-BSD1	QC		53			K006953		
BKL0490-SRM1	QC		54			K006953		
BKL0490-MS1	QC		55			K006953		
BKL0490-MSD1	QC		56			K006953		
22L0246-05	8082A PCB Solid 4	B 01	57			K006953	Anchor QEA, LLC	
22L0246-08	8082A PCB Solid 4	C 02	58			K006953	Anchor QEA, LLC	
22L0246-10	8082A PCB Solid 4	C 02	59			K006953	Anchor QEA, LLC	
SLA0094-CCV9	QC		60		K006955	K006953		
SLA0094-CCVA	QC		61		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	04-JAN-2023 09:23	01042301.D	1	DDTS	
2	04-JAN-2023 09:44	01042302.D	1	AR1254ICV1	
3	04-JAN-2023 10:05	01042303.D	1	AR1660ICV2	
4	04-JAN-2023 10:26	01042304.D	5	22L0246-41RE1	
5	04-JAN-2023 10:47	01042305.D	10	22L0246-42RE1	
6	04-JAN-2023 11:08	01042306.D	5	22L0246-43RE1	
7	04-JAN-2023 11:29	01042307.D	5	22L0199-07RE2	
8	04-JAN-2023 11:50	01042308.D	1	BKL0685-BLK1	
9	04-JAN-2023 12:11	01042309.D	1	BKL0685-BS1	
10	04-JAN-2023 12:32	01042310.D	1	BKL0685-BSD1	
11	04-JAN-2023 12:53	01042311.D	1	22L0600-01	
12	04-JAN-2023 13:15	01042312.D	1	22L0600-02	
13	04-JAN-2023 13:36	01042313.D	1	BKL0681-BLK1	
14	04-JAN-2023 13:57	01042314.D	1	BKL0681-BS1	
15	04-JAN-2023 14:18	01042315.D	1	BKL0681-BSD1	
16	04-JAN-2023 14:39	01042316.D	1	BKL0681-MRL1	
17	04-JAN-2023 15:00	01042317.D	1	22L0601-01	
18	04-JAN-2023 15:21	01042318.D	1	22L0604-01	
19	04-JAN-2023 15:42	01042319.D	1	22L0632-01	
20	04-JAN-2023 16:03	01042320.D	1	AR1248CCV1	
21	04-JAN-2023 16:25	01042321.D	1	AR1660CCV2	
22	04-JAN-2023 16:46	01042322.D	1	BKL0492-BLK1	
23	04-JAN-2023 17:07	01042323.D	1	BKL0492-BS1	
24	04-JAN-2023 17:28	01042324.D	1	BKL0492-BSD1	
25	04-JAN-2023 17:49	01042325.D	1	BKL0492-SRM1	
26	04-JAN-2023 18:10	01042326.D	1	BKL0492-MS1	
27	04-JAN-2023 18:31	01042327.D	1	BKL0492-MSD1	
28	04-JAN-2023 18:52	01042328.D	1	22L0246-21	
29	04-JAN-2023 19:13	01042329.D	1	22L0246-22	
30	04-JAN-2023 19:34	01042330.D	1	22L0246-23	
31	04-JAN-2023 19:56	01042331.D	1	22L0246-24	
32	04-JAN-2023 20:17	01042332.D	1	22L0246-25	
33	04-JAN-2023 20:38	01042333.D	1	22L0246-26	
34	04-JAN-2023 20:59	01042334.D	1	22L0246-27	
35	04-JAN-2023 21:20	01042335.D	1	22L0246-28	
36	04-JAN-2023 21:41	01042336.D	1	22L0246-29	
37	04-JAN-2023 22:02	01042337.D	1	22L0246-30	
38	04-JAN-2023 22:23	01042338.D	1	AR1242CCV3	
39	04-JAN-2023 22:44	01042339.D	1	AR1660CCV4	
40	04-JAN-2023 23:06	01042340.D	1	22L0246-31	
41	04-JAN-2023 23:27	01042341.D	1	22L0246-32	
42	04-JAN-2023 23:48	01042342.D	1	22L0246-33	
43	05-JAN-2023 00:09	01042343.D	1	22L0246-34	
44	05-JAN-2023 00:30	01042344.D	1	22L0246-35	
45	05-JAN-2023 00:51	01042345.D	1	22L0246-36	
46	05-JAN-2023 01:12	01042346.D	1	22L0246-37	
47	05-JAN-2023 01:33	01042347.D	1	22L0246-38	
48	05-JAN-2023 01:55	01042348.D	1	22L0246-39	
49	05-JAN-2023 02:16	01042349.D	1	22L0246-40	
50	05-JAN-2023 02:37	01042350.D	1	AR1254CCV5	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	05-JAN-2023 02:58	01042351.D	1	AR1660CCV6	
52	05-JAN-2023 03:19	01042352.D	1	22L0199-24	
53	05-JAN-2023 03:40	01042353.D	1	BLA0021-BLK1	
54	05-JAN-2023 04:01	01042354.D	1	BLA0021-BS1	
55	05-JAN-2023 04:22	01042355.D	1	BLA0021-BSD1	
56	05-JAN-2023 04:44	01042356.D	1	22L0658-01	
57	05-JAN-2023 05:05	01042357.D	1	AR1248CCV7	
58	05-JAN-2023 05:26	01042358.D	1	AR1660CCV8	
59	05-JAN-2023 05:47	01042359.D	1	BKL0490-BLK1	
60	05-JAN-2023 06:08	01042360.D	1	BKL0490-BS1	
61	05-JAN-2023 06:29	01042361.D	1	BKL0490-BSD1	
62	05-JAN-2023 06:50	01042362.D	1	BKL0490-SRM1	
63	05-JAN-2023 07:11	01042363.D	1	BKL0490-MS1	
64	05-JAN-2023 07:32	01042364.D	1	BKL0490-MSD1	
65	05-JAN-2023 07:53	01042365.D	5	22L0246-01	
66	05-JAN-2023 08:15	01042366.D	5	22L0246-02	
67	05-JAN-2023 08:36	01042367.D	5	22L0246-03	
68	05-JAN-2023 08:57	01042368.D	1	22L0246-04	
69	05-JAN-2023 09:18	01042369.D	1	22L0246-05	
70	05-JAN-2023 09:39	01042370.D	1	22L0246-06	
71	05-JAN-2023 10:00	01042371.D	1	22L0246-07	
72	05-JAN-2023 10:21	01042372.D	1	22L0246-08	
73	05-JAN-2023 10:42	01042373.D	1	22L0246-09	
74	05-JAN-2023 11:04	01042374.D	1	22L0246-10	
75	05-JAN-2023 11:25	01042375.D	1	AR1242CCV9	
76	05-JAN-2023 11:46	01042376.D	1	AR1660CCVA	
77	05-JAN-2023 12:07	01042377.D	1	22L0246-11	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 04-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0923	01042301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0944	01042302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1005	01042303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1026	01042304ECD7.D	22L0246-41RE1		5	NO MANUAL INTEGRATION
1047	01042305ECD7.D	22L0246-42RE1		10	Aroclor-1248, Aroclor-1254, Aroclor-1260,
1108	01042306ECD7.D	22L0246-43RE1		5	Aroclor-1254,
1129	01042307ECD7.D	22L0199-07RE2		5	Aroclor-1254,
1150	01042308ECD7.D	BKL0685-BLK1		1	NO MANUAL INTEGRATION
1211	01042309ECD7.D	BKL0685-BS1		1	NO MANUAL INTEGRATION
1232	01042310ECD7.D	BKL0685-BSD1		1	NO MANUAL INTEGRATION
1253	01042311ECD7.D	22L0600-01		1	Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl,
1315	01042312ECD7.D	22L0600-02		1	NO MANUAL INTEGRATION
1336	01042313ECD7.D	BKL0681-BLK1		1	NO MANUAL INTEGRATION
1357	01042314ECD7.D	BKL0681-BS1		1	NO MANUAL INTEGRATION
1418	01042315ECD7.D	BKL0681-BSD1		1	NO MANUAL INTEGRATION
1439	01042316ECD7.D	BKL0681-MRL1		1	NO MANUAL INTEGRATION
1500	01042317ECD7.D	22L0601-01		1	Tetrachloro-m-xylene,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1521	01042318ECD7.D	22L0604-01		1	NO MANUAL INTEGRATION
1542	01042319ECD7.D	22L0632-01		1	Tetrachloro-m-xylene,
1603	01042320ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1625	01042321ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1646	01042322ECD7.D	BKL0492-BLK1		1	NO MANUAL INTEGRATION
1707	01042323ECD7.D	BKL0492-BS1		1	NO MANUAL INTEGRATION
1728	01042324ECD7.D	BKL0492-BSD1		1	NO MANUAL INTEGRATION
1749	01042325ECD7.D	BKL0492-SRM1		1	NO MANUAL INTEGRATION
1810	01042326ECD7.D	BKL0492-MS1		1	NO MANUAL INTEGRATION
1831	01042327ECD7.D	BKL0492-MSD1		1	NO MANUAL INTEGRATION
1852	01042328ECD7.D	22L0246-21		1	NO MANUAL INTEGRATION
1913	01042329ECD7.D	22L0246-22		1	NO MANUAL INTEGRATION
1934	01042330ECD7.D	22L0246-23		1	NO MANUAL INTEGRATION
1956	01042331ECD7.D	22L0246-24		1	Aroclor-1254, Aroclor-1260,
2017	01042332ECD7.D	22L0246-25		1	NO MANUAL INTEGRATION
2038	01042333ECD7.D	22L0246-26		1	Aroclor-1254, Aroclor-1260,
2059	01042334ECD7.D	22L0246-27		1	Aroclor-1254,
2120	01042335ECD7.D	22L0246-28		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2141	01042336ECD7.D	22L0246-29		1	NO MANUAL INTEGRATION
2202	01042337ECD7.D	22L0246-30		1	Aroclor-1254,
2223	01042338ECD7.D	AR1242CCV3		1	Aroclor-1242,
2244	01042339ECD7.D	AR1660CCV4		1	Aroclor-1016,
2306	01042340ECD7.D	22L0246-31		1	Aroclor-1254,
2327	01042341ECD7.D	22L0246-32		1	Aroclor-1254,
2348	01042342ECD7.D	22L0246-33		1	Aroclor-1254, Aroclor-1260,
0009	01042343ECD7.D	22L0246-34		1	Aroclor-1254,
0030	01042344ECD7.D	22L0246-35		1	NO MANUAL INTEGRATION
0051	01042345ECD7.D	22L0246-36		1	NO MANUAL INTEGRATION
0112	01042346ECD7.D	22L0246-37		1	Aroclor-1254,
0133	01042347ECD7.D	22L0246-38		1	NO MANUAL INTEGRATION
0155	01042348ECD7.D	22L0246-39		1	NO MANUAL INTEGRATION
0216	01042349ECD7.D	22L0246-40		1	NO MANUAL INTEGRATION
0237	01042350ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0258	01042351ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0319	01042352ECD7.D	22L0199-24		1	Aroclor-1254,
0340	01042353ECD7.D	BLA0021-BLK1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0401	01042354ECD7.D	BLA0021-BS1		1	NO MANUAL INTEGRATION
0422	01042355ECD7.D	BLA0021-BSD1		1	NO MANUAL INTEGRATION
0444	01042356ECD7.D	22L0658-01		1	IS-HBBP, Decachlorobiphenyl,
0505	01042357ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0526	01042358ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0547	01042359ECD7.D	BKL0490-BLK1		1	NO MANUAL INTEGRATION
0608	01042360ECD7.D	BKL0490-BS1		1	NO MANUAL INTEGRATION
0629	01042361ECD7.D	BKL0490-BSD1		1	NO MANUAL INTEGRATION
0650	01042362ECD7.D	BKL0490-SRM1		1	NO MANUAL INTEGRATION
0711	01042363ECD7.D	BKL0490-MS1		1	NO MANUAL INTEGRATION
0732	01042364ECD7.D	BKL0490-MSD1		1	NO MANUAL INTEGRATION
0753	01042365ECD7.D	22L0246-01		5	NO MANUAL INTEGRATION
0815	01042366ECD7.D	22L0246-02		5	Aroclor-1254,
0836	01042367ECD7.D	22L0246-03		5	Aroclor-1254,
0857	01042368ECD7.D	22L0246-04		1	Aroclor-1254,
0918	01042369ECD7.D	22L0246-05		1	Aroclor-1260, Tetrachloro-m-xylene,
0939	01042370ECD7.D	22L0246-06		1	NO MANUAL INTEGRATION
1000	01042371ECD7.D	22L0246-07		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1021	01042372ECD7.D	22L0246-08		1	Aroclor-1254,
1042	01042373ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1104	01042374ECD7.D	22L0246-10		1	Aroclor-1254, Aroclor-1260,
1125	01042375ECD7.D	AR1242CCV9		1	Aroclor-1242,
1146	01042376ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1207	01042377ECD7.D	22L0246-11		1	NO MANUAL INTEGRATION
0923	01042301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
0944	01042302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1005	01042303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1026	01042304ECD7.D	22L0246-41RE1		5	Aroclor-1248 [2C], Aroclor-1254 [2C],
1047	01042305ECD7.D	22L0246-42RE1		10	Aroclor-1248 [2C],
1108	01042306ECD7.D	22L0246-43RE1		5	Aroclor-1254 [2C], Aroclor-1260 [2C],
1129	01042307ECD7.D	22L0199-07RE2		5	NO MANUAL INTEGRATION
1150	01042308ECD7.D	BKL0685-BLK1		1	NO MANUAL INTEGRATION
1211	01042309ECD7.D	BKL0685-BS1		1	NO MANUAL INTEGRATION
1232	01042310ECD7.D	BKL0685-BSD1		1	NO MANUAL INTEGRATION
1253	01042311ECD7.D	22L0600-01		1	Aroclor-1254 [2C], Aroclor-1260 [2C],
1315	01042312ECD7.D	22L0600-02		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1336	01042313ECD7.D	BKL0681-BLK1		1	NO MANUAL INTEGRATION
1357	01042314ECD7.D	BKL0681-BS1		1	NO MANUAL INTEGRATION
1418	01042315ECD7.D	BKL0681-BSD1		1	NO MANUAL INTEGRATION
1439	01042316ECD7.D	BKL0681-MRL1		1	NO MANUAL INTEGRATION
1500	01042317ECD7.D	22L0601-01		1	NO MANUAL INTEGRATION
1521	01042318ECD7.D	22L0604-01		1	NO MANUAL INTEGRATION
1542	01042319ECD7.D	22L0632-01		1	NO MANUAL INTEGRATION
1603	01042320ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1625	01042321ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1646	01042322ECD7.D	BKL0492-BLK1		1	NO MANUAL INTEGRATION
1707	01042323ECD7.D	BKL0492-BS1		1	NO MANUAL INTEGRATION
1728	01042324ECD7.D	BKL0492-BSD1		1	NO MANUAL INTEGRATION
1749	01042325ECD7.D	BKL0492-SRM1		1	NO MANUAL INTEGRATION
1810	01042326ECD7.D	BKL0492-MS1		1	NO MANUAL INTEGRATION
1831	01042327ECD7.D	BKL0492-MSD1		1	NO MANUAL INTEGRATION
1852	01042328ECD7.D	22L0246-21		1	NO MANUAL INTEGRATION
1913	01042329ECD7.D	22L0246-22		1	NO MANUAL INTEGRATION
1934	01042330ECD7.D	22L0246-23		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1956	01042331ECD7.D	22L0246-24		1	Aroclor-1254 [2C],
2017	01042332ECD7.D	22L0246-25		1	NO MANUAL INTEGRATION
2038	01042333ECD7.D	22L0246-26		1	Aroclor-1248 [2C],
2059	01042334ECD7.D	22L0246-27		1	Aroclor-1248 [2C],
2120	01042335ECD7.D	22L0246-28		1	NO MANUAL INTEGRATION
2141	01042336ECD7.D	22L0246-29		1	NO MANUAL INTEGRATION
2202	01042337ECD7.D	22L0246-30		1	Aroclor-1248 [2C],
2223	01042338ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2244	01042339ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2306	01042340ECD7.D	22L0246-31		1	Aroclor-1248 [2C],
2327	01042341ECD7.D	22L0246-32		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
2348	01042342ECD7.D	22L0246-33		1	Aroclor-1254 [2C],
0009	01042343ECD7.D	22L0246-34		1	NO MANUAL INTEGRATION
0030	01042344ECD7.D	22L0246-35		1	NO MANUAL INTEGRATION
0051	01042345ECD7.D	22L0246-36		1	NO MANUAL INTEGRATION
0112	01042346ECD7.D	22L0246-37		1	Aroclor-1254 [2C],
0133	01042347ECD7.D	22L0246-38		1	NO MANUAL INTEGRATION
0155	01042348ECD7.D	22L0246-39		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0216	01042349ECD7.D	22L0246-40		1	NO MANUAL INTEGRATION
0237	01042350ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0258	01042351ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0319	01042352ECD7.D	22L0199-24		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
0340	01042353ECD7.D	BLA0021-BLK1		1	NO MANUAL INTEGRATION
0401	01042354ECD7.D	BLA0021-BS1		1	NO MANUAL INTEGRATION
0422	01042355ECD7.D	BLA0021-BSD1		1	NO MANUAL INTEGRATION
0444	01042356ECD7.D	22L0658-01		1	Decachlorobiphenyl [2C],
0505	01042357ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0526	01042358ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
0547	01042359ECD7.D	BKL0490-BLK1		1	NO MANUAL INTEGRATION
0608	01042360ECD7.D	BKL0490-BS1		1	NO MANUAL INTEGRATION
0629	01042361ECD7.D	BKL0490-BSD1		1	NO MANUAL INTEGRATION
0650	01042362ECD7.D	BKL0490-SRM1		1	NO MANUAL INTEGRATION
0711	01042363ECD7.D	BKL0490-MS1		1	NO MANUAL INTEGRATION
0732	01042364ECD7.D	BKL0490-MSD1		1	NO MANUAL INTEGRATION
0753	01042365ECD7.D	22L0246-01		5	NO MANUAL INTEGRATION
0815	01042366ECD7.D	22L0246-02		5	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230104.b\230104.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0836	01042367ECD7.D	22L0246-03		5	Aroclor-1248 [2C],
0857	01042368ECD7.D	22L0246-04		1	NO MANUAL INTEGRATION
0918	01042369ECD7.D	22L0246-05		1	Aroclor-1260 [2C], Tetrachloro-m-xylene [2C],
0939	01042370ECD7.D	22L0246-06		1	NO MANUAL INTEGRATION
1000	01042371ECD7.D	22L0246-07		1	NO MANUAL INTEGRATION
1021	01042372ECD7.D	22L0246-08		1	NO MANUAL INTEGRATION
1042	01042373ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1104	01042374ECD7.D	22L0246-10		1	NO MANUAL INTEGRATION
1125	01042375ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1146	01042376ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1207	01042377ECD7.D	22L0246-11		1	NO MANUAL INTEGRATION

Security Status Report

Date: 09-Jan-2023 16:03

01042301ECD7.D	Data Locked	richardl, 09-Jan-2023 16:03
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Security Status Report

Date: 09-Jan-2023 16:25

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Security Status Report

Date: 13-Jan-2023 10:51

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01042377ECD7.D	Data Locked	richardl, 09-Jan-2023 16:03

Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
LDW22-SC778E	22L0246-05	01042369ECD7.D	01042369ECD7.D	Solid	01/05/23 09:18
LDW22-IT810D	22L0246-11	01052321ECD7.D	01052321ECD7.D	Solid	01/05/23 19:25
LDW22-IT810E	22L0246-12	01052322ECD7.D	01052322ECD7.D	Solid	01/05/23 19:46
LDW22-IT810F	22L0246-13	01052323ECD7.D	01052323ECD7.D	Solid	01/05/23 20:07
LDW22-IT810G	22L0246-14	01052324ECD7.D	01052324ECD7.D	Solid	01/05/23 20:28
LDW22-SC779A	22L0246-15	01052325ECD7.D	01052325ECD7.D	Solid	01/05/23 20:49
LDW22-SC779B	22L0246-16	01052326ECD7.D	01052326ECD7.D	Solid	01/05/23 21:10
LDW22-SC779C	22L0246-17	01052327ECD7.D	01052327ECD7.D	Solid	01/05/23 21:31
Calibration Check	SLA0096-CCV3	01052331ECD7.D	01052331ECD7.D	NA	01/05/23 22:56
Calibration Check	SLA0096-CCV4	01052332ECD7.D	01052332ECD7.D	NA	01/05/23 23:17
Calibration Check	SLA0096-CCV5	01052349ECD7.D	01052349ECD7.D	NA	01/06/23 05:15
Calibration Check	SLA0096-CCV6	01052350ECD7.D	01052350ECD7.D	NA	01/06/23 05:36
Calibration Check	SLA0096-CCV7	01052361ECD7.D	01052361ECD7.D	NA	01/06/23 09:28
Calibration Check	SLA0096-CCV8	01052362ECD7.D	01052362ECD7.D	NA	01/06/23 09:49
LDW22-SC779F	22L0246-21	01052363ECD7.D	01052363ECD7.D	Solid	01/06/23 10:10
LDW22-SC779G	22L0246-22	01052364ECD7.D	01052364ECD7.D	Solid	01/06/23 10:31
LDW22-SC778F	22L0246-06	01052365ECD7.D	01052365ECD7.D	Solid	01/06/23 10:52
LDW22-IT810A	22L0246-07	01052366ECD7.D	01052366ECD7.D	Solid	01/06/23 11:13
LDW22-IT810C	22L0246-09	01052368ECD7.D	01052368ECD7.D	Solid	01/06/23 11:55
Calibration Check	SLA0096-CCV9	01052372ECD7.D	01052372ECD7.D	NA	01/06/23 13:19
Calibration Check	SLA0096-CCVA	01052373ECD7.D	01052373ECD7.D	NA	01/06/23 13:40
Calibration Check	SLA0096-CCVB	01052384ECD7.D	01052384ECD7.D	NA	01/06/23 17:32
Calibration Check	SLA0096-CCVC	01052385ECD7.D	01052385ECD7.D	NA	01/06/23 17:53
Calibration Check	SLA0096-CCVD	01052392ECD7.D	01052392ECD7.D	NA	01/06/23 20:21
Calibration Check	SLA0096-CCVE	01052393ECD7.D	01052393ECD7.D	NA	01/06/23 20:42

Analytical Resources, LLC
Analytical Chemists and Consultants

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
SLA0096-ICV1	QC		1		K006957	K006953		
SLA0096-ICV2	QC		2		K006954	K006953		
BLA0052-BLK1	QC		3			K006953		
BLA0052-BS1	QC		4			K006953		
23A0030-01	082A PCB Medium Level Oil	A 01	5			K006953	Seattle Public Utilities [Solid Waste Field Op]	See Version Comment
BLA0047-BLK1	QC		6			K006953		
BLA0047-BS1	QC		7			K006953		
BLA0047-BSD1	QC		8			K006953		
22L0663-01	PCB (20 ug/kg) or (MTCA 0.	B 01	9			K006953	Nucor Steel Corporation	
BLA0043-BLK1	QC		10			K006953		
BLA0043-BS1	QC		11			K006953		
BLA0043-BSD1	QC		12			K006953		
22L0661-01	8.3 PCBs 0.01 ug/L or 20 ug/	E 01	13			K006953	Nucor Steel Corporation	
23A0027-01	8.3 PCBs 0.01 ug/L or 20 ug/	E 01	14			K006953	Schnitzer Steel	Please run low-level check standards , (
SLA0096-CCV1	QC		15		K006956	K006953		
SLA0096-CCV2	QC		16		K006954	K006953		
22L0246-11	8082A PCB Solid 4	C 02	17			K006953	Anchor QEA, LLC	
22L0246-12	8082A PCB Solid 4	C 02	18			K006953	Anchor QEA, LLC	
22L0246-13	8082A PCB Solid 4	C 02	19			K006953	Anchor QEA, LLC	
22L0246-14	8082A PCB Solid 4	C 02	20			K006953	Anchor QEA, LLC	
22L0246-15	8082A PCB Solid 4	B 01	21			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0246-16	8082A PCB Solid 4	B 01	22			K006953	Anchor QEA, LLC	
22L0246-17	8082A PCB Solid 4	B 01	23			K006953	Anchor QEA, LLC	
SLA0096-CCV3	QC		24		K006955	K006953		
SLA0096-CCV4	QC		25		K006954	K006953		
22L0473-03	8082A PCB Solid 4	A 02	26			K006953	Anchor QEA, LLC	
22L0473-05	8082A PCB Solid 4	A 02	27			K006953	Anchor QEA, LLC	
22L0473-06	8082A PCB Solid 4	A 02	28			K006953	Anchor QEA, LLC	
22L0473-07	8082A PCB Solid 4	A 02	29			K006953	Anchor QEA, LLC	
22L0473-08	8082A PCB Solid 4	A 02	30			K006953	Anchor QEA, LLC	
SLA0096-CCV5	QC		31		K006957	K006953		
SLA0096-CCV6	QC		32		K006954	K006953		
22L0473-09	8082A PCB Solid 4	A 02	33			K006953	Anchor QEA, LLC	
22L0473-10	8082A PCB Solid 4	A 01	34			K006953	Anchor QEA, LLC	
22L0492-13	8082A PCB Solid 4	A 01	35			K006953	Windward Environmental, LLC	
22L0492-15	8082A PCB Solid 4	A 01	36			K006953	Windward Environmental, LLC	
22L0492-16	8082A PCB Solid 4	A 01	37			K006953	Windward Environmental, LLC	
SLA0096-CCV7	QC		38		K006956	K006953		
SLA0096-CCV8	QC		39		K006954	K006953		
22L0246-21	8082A PCB Solid 4	B 01	40			K006953	Anchor QEA, LLC	
22L0246-22	8082A PCB Solid 4	B 01	41			K006953	Anchor QEA, LLC	
22L0246-06	8082A PCB Solid 4	B 01	42			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0246-07	8082A PCB Solid 4	C 02	43			K006953	Anchor QEA, LLC	
22L0246-05	8082A PCB Solid 4	B 01	44			K006953	Anchor QEA, LLC	
22L0246-09	8082A PCB Solid 4	C 02	45			K006953	Anchor QEA, LLC	
22L0199-40	8082A PCB Solid 4	B 01	46			K006953	Anchor QEA, LLC	
22L0199-41	8082A PCB Solid 4	B 01	47			K006953	Anchor QEA, LLC	
22L0199-42	8082A PCB Solid 4	B 01	48			K006953	Anchor QEA, LLC	
SLA0096-CCV9	QC		49		K006955	K006953		
SLA0096-CCVA	QC		50		K006954	K006953		
22L0199-25	8082A PCB Solid 4	B 01	51			K006953	Anchor QEA, LLC	
22L0199-26	8082A PCB Solid 4	B 01	52			K006953	Anchor QEA, LLC	
22L0199-27	8082A PCB Solid 4	B 01	53			K006953	Anchor QEA, LLC	
22L0199-28	8082A PCB Solid 4	B 01	54			K006953	Anchor QEA, LLC	
22L0199-29	8082A PCB Solid 4	B 01	55			K006953	Anchor QEA, LLC	
22L0199-30	8082A PCB Solid 4	B 01	56			K006953	Anchor QEA, LLC	
22L0199-33	8082A PCB Solid 4	B 01	57			K006953	Anchor QEA, LLC	
22L0199-34	8082A PCB Solid 4	B 01	58			K006953	Anchor QEA, LLC	
22L0199-35	8082A PCB Solid 4	B 01	59			K006953	Anchor QEA, LLC	
22L0199-36	8082A PCB Solid 4	B 01	60			K006953	Anchor QEA, LLC	
SLA0096-CCVB	QC		61		K006957	K006953		
SLA0096-CCVC	QC		62		K006954	K006953		
22L0199-37	8082A PCB Solid 4	B 01	63			K006953	Anchor QEA, LLC	

Samples Loaded By Date

Data Processed By Date

ANALYSIS SEQUENCE

SLA0096

Instrument: ECD7
Calibration ID: FL00010

Printed: 1/10/2023 2:09:09PM

Lab Number	Analysis	Container	Order	Position	STD ID	ISTD ID	Client	Comments
22L0199-38	8082A PCB Solid 4	B 01	64			K006953	Anchor QEA, LLC	
22L0199-39	8082A PCB Solid 4	B 01	65			K006953	Anchor QEA, LLC	
22L0307-01	8082A PCB Solid 4	B 01	66			K006953	Anchor QEA, LLC	
22L0137-19	8082A PCB Solid 4	B 01	67			K006953	Anchor QEA, LLC	
SLA0096-CCVD	QC		68		K006956	K006953		
SLA0096-CCVE	QC		69		K006954	K006953		

Samples Loaded By Date

Data Processed By Date

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	05-JAN-2023 12:22	01052301.D	1	DDTS	
2	05-JAN-2023 12:43	01052302.D	1	AR1254ICV1	
3	05-JAN-2023 13:04	01052303.D	1	AR1660ICV2	
4	05-JAN-2023 13:26	01052304.D	1	BLA0052-BLK1	
5	05-JAN-2023 13:47	01052305.D	1	BLA0052-BS1	
6	05-JAN-2023 14:08	01052306.D	1	23A0030-01	
7	05-JAN-2023 14:29	01052307.D	5	23A0030-01RE1	
8	05-JAN-2023 14:50	01052308.D	1	BLA0047-BLK1	
9	05-JAN-2023 15:11	01052309.D	1	BLA0047-BS1	
10	05-JAN-2023 15:32	01052310.D	1	BLA0047-BSD1	
11	05-JAN-2023 15:53	01052311.D	1	22L0663-01	
12	05-JAN-2023 16:15	01052312.D	5	22L0663-01RE1	
13	05-JAN-2023 16:36	01052313.D	1	BLA0043-BLK1	
14	05-JAN-2023 16:57	01052314.D	1	BLA0043-BS1	
15	05-JAN-2023 17:18	01052315.D	1	BLA0043-BSD1	
16	05-JAN-2023 17:39	01052316.D	1	22L0661-01	
17	05-JAN-2023 18:00	01052317.D	1	23A0027-01	
18	05-JAN-2023 18:21	01052318.D	1	SCVA250	
19	05-JAN-2023 18:42	01052319.D	1	AR1248CCV1	
20	05-JAN-2023 19:04	01052320.D	1	AR1660CCV2	
21	05-JAN-2023 19:25	01052321.D	1	22L0246-11	
22	05-JAN-2023 19:46	01052322.D	1	22L0246-12	
23	05-JAN-2023 20:07	01052323.D	1	22L0246-13	
24	05-JAN-2023 20:28	01052324.D	1	22L0246-14	
25	05-JAN-2023 20:49	01052325.D	1	22L0246-15	
26	05-JAN-2023 21:10	01052326.D	1	22L0246-16	
27	05-JAN-2023 21:31	01052327.D	1	22L0246-17	
28	05-JAN-2023 21:52	01052328.D	1	22L0246-18	
29	05-JAN-2023 22:14	01052329.D	1	22L0246-19	
30	05-JAN-2023 22:35	01052330.D	1	22L0246-20	
31	05-JAN-2023 22:56	01052331.D	1	AR1242CCV3	
32	05-JAN-2023 23:17	01052332.D	1	AR1660CCV4	
33	05-JAN-2023 23:38	01052333.D	1	BKL0613-BLK1	
34	05-JAN-2023 23:59	01052334.D	1	BKL0613-BS1	
35	06-JAN-2023 00:20	01052335.D	1	BKL0613-BSD1	
36	06-JAN-2023 00:41	01052336.D	1	BKL0613-SRM1	
37	06-JAN-2023 01:02	01052337.D	1	BKL0613-MS1	
38	06-JAN-2023 01:23	01052338.D	1	BKL0613-MSD1	
39	06-JAN-2023 01:45	01052339.D	1	BKL0613-MS2	
40	06-JAN-2023 02:06	01052340.D	1	BKL0613-MSD2	
41	06-JAN-2023 02:27	01052341.D	1	22L0473-01	
42	06-JAN-2023 02:48	01052342.D	1	22L0473-02	
43	06-JAN-2023 03:09	01052343.D	1	22L0473-03	
44	06-JAN-2023 03:30	01052344.D	1	22L0473-04	
45	06-JAN-2023 03:51	01052345.D	1	22L0473-05	
46	06-JAN-2023 04:12	01052346.D	1	22L0473-06	
47	06-JAN-2023 04:33	01052347.D	1	22L0473-07	
48	06-JAN-2023 04:54	01052348.D	1	22L0473-08	
49	06-JAN-2023 05:15	01052349.D	1	AR1254CCV5	
50	06-JAN-2023 05:36	01052350.D	1	AR1660CCV6	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	06-JAN-2023 05:57	01052351.D	1	22L0473-09	
52	06-JAN-2023 06:18	01052352.D	1	22L0473-10	
53	06-JAN-2023 06:39	01052353.D	1	22L0473-11	
54	06-JAN-2023 07:00	01052354.D	1	22L0492-12	
55	06-JAN-2023 07:22	01052355.D	1	22L0492-13	
56	06-JAN-2023 07:43	01052356.D	1	22L0492-14	
57	06-JAN-2023 08:04	01052357.D	1	22L0492-15	
58	06-JAN-2023 08:25	01052358.D	1	22L0492-16	
59	06-JAN-2023 08:46	01052359.D	1	22L0492-17	
60	06-JAN-2023 09:07	01052360.D	1	22L0492-18	
61	06-JAN-2023 09:28	01052361.D	1	AR1248CCV7	
62	06-JAN-2023 09:49	01052362.D	1	AR1660CCV8	
63	06-JAN-2023 10:10	01052363.D	10	22L0246-21RE1	
64	06-JAN-2023 10:31	01052364.D	10	22L0246-22RE1	
65	06-JAN-2023 10:52	01052365.D	10	22L0246-06RE1	
66	06-JAN-2023 11:13	01052366.D	5	22L0246-07RE1	
67	06-JAN-2023 11:34	01052367.D	1	22L0246-05	
68	06-JAN-2023 11:55	01052368.D	1	22L0246-09	
69	06-JAN-2023 12:16	01052369.D	1	22L0199-40	
70	06-JAN-2023 12:37	01052370.D	5	22L0199-41RE2	
71	06-JAN-2023 12:58	01052371.D	5	22L0199-42RE2	
72	06-JAN-2023 13:19	01052372.D	1	AR1242CCV9	
73	06-JAN-2023 13:40	01052373.D	1	AR1660CCVA	
74	06-JAN-2023 14:02	01052374.D	1	22L0199-25	
75	06-JAN-2023 14:23	01052375.D	1	22L0199-26	
76	06-JAN-2023 14:44	01052376.D	1	22L0199-27	
77	06-JAN-2023 15:05	01052377.D	1	22L0199-28	
78	06-JAN-2023 15:26	01052378.D	1	22L0199-29	
79	06-JAN-2023 15:47	01052379.D	20	22L0199-30	
80	06-JAN-2023 16:08	01052380.D	1	22L0199-33	
81	06-JAN-2023 16:29	01052381.D	1	22L0199-34	
82	06-JAN-2023 16:50	01052382.D	1	22L0199-35	
83	06-JAN-2023 17:11	01052383.D	1	22L0199-36	
84	06-JAN-2023 17:32	01052384.D	1	AR1254CCVB	
85	06-JAN-2023 17:53	01052385.D	1	AR1660CCVC	
86	06-JAN-2023 18:15	01052386.D	1	22L0199-37	
87	06-JAN-2023 18:36	01052387.D	1	22L0199-38	
88	06-JAN-2023 18:57	01052388.D	1	22L0199-39	
89	06-JAN-2023 19:18	01052389.D	5	22L0307-01RE1	
90	06-JAN-2023 19:39	01052390.D	1	22L0137-19	
91	06-JAN-2023 20:00	01052391.D	5	22L0199-7RE3	
92	06-JAN-2023 20:21	01052392.D	1	AR1242CCVD	
93	06-JAN-2023 20:42	01052393.D	1	AR1660CCVE	

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

ARI Job No.: DDTS Method: PCB.m Instrument: ecd7.i Date: 05-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1222	01052301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1243	01052302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1304	01052303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1326	01052304ECD7.D	BLA0052-BLK1		1	NO MANUAL INTEGRATION
1347	01052305ECD7.D	BLA0052-BS1		1	NO MANUAL INTEGRATION
1408	01052306ECD7.D	23A0030-01		1	NO MANUAL INTEGRATION
1429	01052307ECD7.D	23A0030-01RE1		5	NO MANUAL INTEGRATION
1450	01052308ECD7.D	BLA0047-BLK1		1	NO MANUAL INTEGRATION
1511	01052309ECD7.D	BLA0047-BS1		1	NO MANUAL INTEGRATION
1532	01052310ECD7.D	BLA0047-BSD1		1	NO MANUAL INTEGRATION
1553	01052311ECD7.D	22L0663-01		1	Aroclor-1248, Aroclor-1254, Aroclor-1260, IS-HBBP, Decachlorobiphenyl,
1615	01052312ECD7.D	22L0663-01RE1		5	NO MANUAL INTEGRATION
1636	01052313ECD7.D	BLA0043-BLK1		1	NO MANUAL INTEGRATION
1657	01052314ECD7.D	BLA0043-BS1		1	NO MANUAL INTEGRATION
1718	01052315ECD7.D	BLA0043-BSD1		1	NO MANUAL INTEGRATION
1739	01052316ECD7.D	22L0661-01		1	Tetrachloro-m-xylene,
1800	01052317ECD7.D	23A0027-01		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1821	01052318ECD7.D	SCVA250		1	NO MANUAL INTEGRATION
1842	01052319ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1904	01052320ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1925	01052321ECD7.D	22L0246-11		1	Aroclor-1248, Aroclor-1254, Aroclor-1260,
1946	01052322ECD7.D	22L0246-12		1	Aroclor-1254, Aroclor-1260,
2007	01052323ECD7.D	22L0246-13		1	NO MANUAL INTEGRATION
2028	01052324ECD7.D	22L0246-14		1	NO MANUAL INTEGRATION
2049	01052325ECD7.D	22L0246-15		1	Aroclor-1254, Aroclor-1260,
2110	01052326ECD7.D	22L0246-16		1	Aroclor-1254,
2131	01052327ECD7.D	22L0246-17		1	Aroclor-1254,
2152	01052328ECD7.D	22L0246-18		1	NO MANUAL INTEGRATION
2214	01052329ECD7.D	22L0246-19		1	NO MANUAL INTEGRATION
2235	01052330ECD7.D	22L0246-20		1	NO MANUAL INTEGRATION
2256	01052331ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2317	01052332ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION
2338	01052333ECD7.D	BKL0613-BLK1		1	NO MANUAL INTEGRATION
2359	01052334ECD7.D	BKL0613-BS1		1	NO MANUAL INTEGRATION
0020	01052335ECD7.D	BKL0613-BSD1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0041	01052336ECD7.D	BKL0613-SRM1		1	NO MANUAL INTEGRATION
0102	01052337ECD7.D	BKL0613-MS1		1	NO MANUAL INTEGRATION
0123	01052338ECD7.D	BKL0613-MSD1		1	NO MANUAL INTEGRATION
0145	01052339ECD7.D	BKL0613-MS2		1	NO MANUAL INTEGRATION
0206	01052340ECD7.D	BKL0613-MSD2		1	NO MANUAL INTEGRATION
0227	01052341ECD7.D	22L0473-01		1	Aroclor-1254, Aroclor-1260,
0248	01052342ECD7.D	22L0473-02		1	NO MANUAL INTEGRATION
0309	01052343ECD7.D	22L0473-03		1	NO MANUAL INTEGRATION
0330	01052344ECD7.D	22L0473-04		1	Aroclor-1254,
0351	01052345ECD7.D	22L0473-05		1	NO MANUAL INTEGRATION
0412	01052346ECD7.D	22L0473-06		1	NO MANUAL INTEGRATION
0433	01052347ECD7.D	22L0473-07		1	NO MANUAL INTEGRATION
0454	01052348ECD7.D	22L0473-08		1	NO MANUAL INTEGRATION
0515	01052349ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0536	01052350ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION
0557	01052351ECD7.D	22L0473-09		1	NO MANUAL INTEGRATION
0618	01052352ECD7.D	22L0473-10		1	NO MANUAL INTEGRATION
0639	01052353ECD7.D	22L0473-11		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0700	01052354ECD7.D	22L0492-12		1	NO MANUAL INTEGRATION
0722	01052355ECD7.D	22L0492-13		1	NO MANUAL INTEGRATION
0743	01052356ECD7.D	22L0492-14		1	Aroclor-1254,
0804	01052357ECD7.D	22L0492-15		1	NO MANUAL INTEGRATION
0825	01052358ECD7.D	22L0492-16		1	NO MANUAL INTEGRATION
0846	01052359ECD7.D	22L0492-17		1	Aroclor-1260,
0907	01052360ECD7.D	22L0492-18		1	Aroclor-1254, Aroclor-1260,
0928	01052361ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0949	01052362ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1010	01052363ECD7.D	22L0246-21RE1		10	Aroclor-1254,
1031	01052364ECD7.D	22L0246-22RE1		10	Aroclor-1254,
1052	01052365ECD7.D	22L0246-06RE1		10	NO MANUAL INTEGRATION
1113	01052366ECD7.D	22L0246-07RE1		5	NO MANUAL INTEGRATION
1134	01052367ECD7.D	22L0246-05		1	Aroclor-1254,
1155	01052368ECD7.D	22L0246-09		1	NO MANUAL INTEGRATION
1216	01052369ECD7.D	22L0199-40		1	Aroclor-1254,
1237	01052370ECD7.D	22L0199-41RE2		5	Aroclor-1254,
1258	01052371ECD7.D	22L0199-42RE2		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1319	01052372ECD7.D	AR1242CCV9		1	Aroclor-1242,
1340	01052373ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1402	01052374ECD7.D	22L0199-25		1	Aroclor-1254,
1423	01052375ECD7.D	22L0199-26		1	Aroclor-1254,
1444	01052376ECD7.D	22L0199-27		1	Aroclor-1254,
1505	01052377ECD7.D	22L0199-28		1	NO MANUAL INTEGRATION
1526	01052378ECD7.D	22L0199-29		1	Aroclor-1254,
1547	01052379ECD7.D	22L0199-30		20	Aroclor-1254,
1608	01052380ECD7.D	22L0199-33		1	NO MANUAL INTEGRATION
1629	01052381ECD7.D	22L0199-34		1	NO MANUAL INTEGRATION
1650	01052382ECD7.D	22L0199-35		1	Aroclor-1254,
1711	01052383ECD7.D	22L0199-36		1	Aroclor-1254,
1732	01052384ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1753	01052385ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
1815	01052386ECD7.D	22L0199-37		1	Aroclor-1254,
1836	01052387ECD7.D	22L0199-38		1	Aroclor-1254,
1857	01052388ECD7.D	22L0199-39		1	Aroclor-1254,
1918	01052389ECD7.D	22L0307-01RE1		5	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1939	01052390ECD7.D	22L0137-19		1	Aroclor-1254,
2000	01052391ECD7.D	22L0199-7RE3		5	NO MANUAL INTEGRATION
2021	01052392ECD7.D	AR1242CCVD		1	Aroclor-1242,
2042	01052393ECD7.D	AR1660CCVE		1	NO MANUAL INTEGRATION
1222	01052301ECD7.D	DDTS		1	NO MANUAL INTEGRATION
1243	01052302ECD7.D	AR1254ICV1		1	NO MANUAL INTEGRATION
1304	01052303ECD7.D	AR1660ICV2		1	NO MANUAL INTEGRATION
1326	01052304ECD7.D	BLA0052-BLK1		1	NO MANUAL INTEGRATION
1347	01052305ECD7.D	BLA0052-BS1		1	NO MANUAL INTEGRATION
1408	01052306ECD7.D	23A0030-01		1	NO MANUAL INTEGRATION
1429	01052307ECD7.D	23A0030-01RE1		5	NO MANUAL INTEGRATION
1450	01052308ECD7.D	BLA0047-BLK1		1	NO MANUAL INTEGRATION
1511	01052309ECD7.D	BLA0047-BS1		1	NO MANUAL INTEGRATION
1532	01052310ECD7.D	BLA0047-BSD1		1	NO MANUAL INTEGRATION
1553	01052311ECD7.D	22L0663-01		1	Aroclor-1260 [2C],
1615	01052312ECD7.D	22L0663-01RE1		5	NO MANUAL INTEGRATION
1636	01052313ECD7.D	BLA0043-BLK1		1	NO MANUAL INTEGRATION
1657	01052314ECD7.D	BLA0043-BS1		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1718	01052315ECD7.D	BLA0043-BSD1		1	NO MANUAL INTEGRATION
1739	01052316ECD7.D	22L0661-01		1	NO MANUAL INTEGRATION
1800	01052317ECD7.D	23A0027-01		1	NO MANUAL INTEGRATION
1821	01052318ECD7.D	SCVA250		1	NO MANUAL INTEGRATION
1842	01052319ECD7.D	AR1248CCV1		1	NO MANUAL INTEGRATION
1904	01052320ECD7.D	AR1660CCV2		1	NO MANUAL INTEGRATION
1925	01052321ECD7.D	22L0246-11		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1946	01052322ECD7.D	22L0246-12		1	NO MANUAL INTEGRATION
2007	01052323ECD7.D	22L0246-13		1	NO MANUAL INTEGRATION
2028	01052324ECD7.D	22L0246-14		1	NO MANUAL INTEGRATION
2049	01052325ECD7.D	22L0246-15		1	Aroclor-1248 [2C],
2110	01052326ECD7.D	22L0246-16		1	Aroclor-1248 [2C],
2131	01052327ECD7.D	22L0246-17		1	Aroclor-1248 [2C],
2152	01052328ECD7.D	22L0246-18		1	NO MANUAL INTEGRATION
2214	01052329ECD7.D	22L0246-19		1	NO MANUAL INTEGRATION
2235	01052330ECD7.D	22L0246-20		1	NO MANUAL INTEGRATION
2256	01052331ECD7.D	AR1242CCV3		1	NO MANUAL INTEGRATION
2317	01052332ECD7.D	AR1660CCV4		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2338	01052333ECD7.D	BKL0613-BLK1		1	NO MANUAL INTEGRATION
2359	01052334ECD7.D	BKL0613-BS1		1	NO MANUAL INTEGRATION
0020	01052335ECD7.D	BKL0613-BSD1		1	NO MANUAL INTEGRATION
0041	01052336ECD7.D	BKL0613-SRM1		1	NO MANUAL INTEGRATION
0102	01052337ECD7.D	BKL0613-MS1		1	NO MANUAL INTEGRATION
0123	01052338ECD7.D	BKL0613-MSD1		1	NO MANUAL INTEGRATION
0145	01052339ECD7.D	BKL0613-MS2		1	NO MANUAL INTEGRATION
0206	01052340ECD7.D	BKL0613-MSD2		1	NO MANUAL INTEGRATION
0227	01052341ECD7.D	22L0473-01		1	NO MANUAL INTEGRATION
0248	01052342ECD7.D	22L0473-02		1	NO MANUAL INTEGRATION
0309	01052343ECD7.D	22L0473-03		1	NO MANUAL INTEGRATION
0330	01052344ECD7.D	22L0473-04		1	NO MANUAL INTEGRATION
0351	01052345ECD7.D	22L0473-05		1	NO MANUAL INTEGRATION
0412	01052346ECD7.D	22L0473-06		1	NO MANUAL INTEGRATION
0433	01052347ECD7.D	22L0473-07		1	NO MANUAL INTEGRATION
0454	01052348ECD7.D	22L0473-08		1	NO MANUAL INTEGRATION
0515	01052349ECD7.D	AR1254CCV5		1	NO MANUAL INTEGRATION
0536	01052350ECD7.D	AR1660CCV6		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0557	01052351ECD7.D	22L0473-09		1	NO MANUAL INTEGRATION
0618	01052352ECD7.D	22L0473-10		1	NO MANUAL INTEGRATION
0639	01052353ECD7.D	22L0473-11		1	NO MANUAL INTEGRATION
0700	01052354ECD7.D	22L0492-12		1	NO MANUAL INTEGRATION
0722	01052355ECD7.D	22L0492-13		1	NO MANUAL INTEGRATION
0743	01052356ECD7.D	22L0492-14		1	Aroclor-1260 [2C],
0804	01052357ECD7.D	22L0492-15		1	NO MANUAL INTEGRATION
0825	01052358ECD7.D	22L0492-16		1	NO MANUAL INTEGRATION
0846	01052359ECD7.D	22L0492-17		1	NO MANUAL INTEGRATION
0907	01052360ECD7.D	22L0492-18		1	Aroclor-1254 [2C],
0928	01052361ECD7.D	AR1248CCV7		1	NO MANUAL INTEGRATION
0949	01052362ECD7.D	AR1660CCV8		1	NO MANUAL INTEGRATION
1010	01052363ECD7.D	22L0246-21RE1		10	Aroclor-1248 [2C],
1031	01052364ECD7.D	22L0246-22RE1		10	Aroclor-1248 [2C],
1052	01052365ECD7.D	22L0246-06RE1		10	NO MANUAL INTEGRATION
1113	01052366ECD7.D	22L0246-07RE1		5	NO MANUAL INTEGRATION
1134	01052367ECD7.D	22L0246-05		1	NO MANUAL INTEGRATION
1155	01052368ECD7.D	22L0246-09		1	Aroclor-1260 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1216	01052369ECD7.D	22L0199-40		1	Aroclor-1248 [2C],
1237	01052370ECD7.D	22L0199-41RE2		5	Aroclor-1248 [2C],
1258	01052371ECD7.D	22L0199-42RE2		5	Aroclor-1248 [2C],
1319	01052372ECD7.D	AR1242CCV9		1	NO MANUAL INTEGRATION
1340	01052373ECD7.D	AR1660CCVA		1	NO MANUAL INTEGRATION
1402	01052374ECD7.D	22L0199-25		1	Aroclor-1248 [2C],
1423	01052375ECD7.D	22L0199-26		1	Aroclor-1248 [2C],
1444	01052376ECD7.D	22L0199-27		1	Aroclor-1248 [2C],
1505	01052377ECD7.D	22L0199-28		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1526	01052378ECD7.D	22L0199-29		1	Aroclor-1248 [2C],
1547	01052379ECD7.D	22L0199-30		20	Aroclor-1248 [2C],
1608	01052380ECD7.D	22L0199-33		1	NO MANUAL INTEGRATION
1629	01052381ECD7.D	22L0199-34		1	NO MANUAL INTEGRATION
1650	01052382ECD7.D	22L0199-35		1	Aroclor-1248 [2C], Aroclor-1254 [2C],
1711	01052383ECD7.D	22L0199-36		1	Aroclor-1248 [2C],
1732	01052384ECD7.D	AR1254CCVB		1	NO MANUAL INTEGRATION
1753	01052385ECD7.D	AR1660CCVC		1	NO MANUAL INTEGRATION
1815	01052386ECD7.D	22L0199-37		1	Aroclor-1248 [2C],

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230105.b\230105.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1836	01052387ECD7.D	22L0199-38		1	Aroclor-1248 [2C],
1857	01052388ECD7.D	22L0199-39		1	Aroclor-1248 [2C],
1918	01052389ECD7.D	22L0307-01RE1		5	NO MANUAL INTEGRATION
1939	01052390ECD7.D	22L0137-19		1	Aroclor-1248 [2C],
2000	01052391ECD7.D	22L0199-7RE3		5	NO MANUAL INTEGRATION
2021	01052392ECD7.D	AR1242CCVD		1	NO MANUAL INTEGRATION
2042	01052393ECD7.D	AR1660CCVE		1	NO MANUAL INTEGRATION

Security Status Report

Date: 10-Jan-2023 14:11

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Analytical Resources, LLC
Analytical Chemists and Consultants

Dual Column

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0129
Instrument: ECD7
Calibration: FL00010

Sample Name	Lab Sample ID	Column 1 File ID	Column 2 File ID	Matrix	Analysis Date/Time
Initial Cal Check	SLA0129-ICV1	01092302ECD7.D	01092302ECD7.D	NA	01/09/23 09:24
Initial Cal Check	SLA0129-ICV2	01092303ECD7.D	01092303ECD7.D	NA	01/09/23 09:46
Calibration Check	SLA0129-CCV1	01092318ECD7.D	01092318ECD7.D	NA	01/09/23 15:02
Calibration Check	SLA0129-CCV2	01092319ECD7.D	01092319ECD7.D	NA	01/09/23 15:23
Calibration Check	SLA0129-CCV3	01092332ECD7.D	01092332ECD7.D	NA	01/09/23 19:57
Calibration Check	SLA0129-CCV4	01092333ECD7.D	01092333ECD7.D	NA	01/09/23 20:19
LDW22-SC778B	22L0246-01	01092336ECD7.D	01092336ECD7.D	Solid	01/09/23 21:22
LDW22-SC778B	22L0246-01	01092349ECD7.D	01092336ECD7.D	Solid	01/09/23 21:22
LDW22-SC779D	22L0246-18	01092337ECD7.D	01092337ECD7.D	Solid	01/09/23 21:43
LDW22-SC779D-FD	22L0246-19	01092338ECD7.D	01092338ECD7.D	Solid	01/09/23 22:04
LDW22-SC779E	22L0246-20	01092339ECD7.D	01092339ECD7.D	Solid	01/09/23 22:25
LDW22-SC777C	22L0246-28	01092342ECD7.D	01092342ECD7.D	Solid	01/09/23 23:28
LDW22-SC777D	22L0246-29	01092343ECD7.D	01092343ECD7.D	Solid	01/09/23 23:49
Calibration Check	SLA0129-CCV5	01092344ECD7.D	01092344ECD7.D	NA	01/10/23 00:10
Calibration Check	SLA0129-CCV6	01092345ECD7.D	01092345ECD7.D	NA	01/10/23 00:31
LDW22-SC759C	22L0246-35	01092346ECD7.D	01092346ECD7.D	Solid	01/10/23 00:52
LDW22-SC759D	22L0246-36	01092347ECD7.D	01092347ECD7.D	Solid	01/10/23 01:13
LDW22-SC777I	22L0246-34	01092348ECD7.D	01092348ECD7.D	Solid	01/10/23 01:34
LDW22-SC778D	22L0246-04	01092350ECD7.D	01092350ECD7.D	Solid	01/10/23 02:17
LDW22-SC778C	22L0246-02	01092351ECD7.D	01092351ECD7.D	Solid	01/10/23 02:38
LDW22-SC778C-FD	22L0246-03	01092352ECD7.D	01092352ECD7.D	Solid	01/10/23 02:59
Calibration Check	SLA0129-CCV7	01092353ECD7.D	01092353ECD7.D	NA	01/10/23 03:20
Calibration Check	SLA0129-CCV8	01092354ECD7.D	01092354ECD7.D	NA	01/10/23 03:41
Calibration Check	SLA0129-CCV9	01092369ECD7.D	01092369ECD7.D	NA	01/10/23 08:57
Calibration Check	SLA0129-CCVA	01092370ECD7.D	01092370ECD7.D	NA	01/10/23 09:18
Calibration Check	SLA0129-CCVB	01092383ECD7.D	01092383ECD7.D	NA	01/10/23 13:52
Calibration Check	SLA0129-CCVC	01092384ECD7.D	01092384ECD7.D	NA	01/10/23 14:13

Printed: 1/13/2023 4:23:31PM

ANALYSIS SEQUENCE

SLA0129

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SLA0129-ICV1	AR1254ICV1	QC		1	K006957	K006953		
SLA0129-ICV2	AR1660ICV2	QC		2	K006954	K006953		
BKL0583-BLK1	Blank	QC		3		K006953		
BKL0583-BS1	LCS	QC		4		K006953		
BKL0583-BSD1	LCS Dup	QC		5		K006953		
BKL0583-SRM1	Reference	QC		6		K006953		
22L0307-41	LDW22-SC804G	8082A PCB Solid 4	B 01	7		K006953		
22L0307-42	LDW22-SC804H	8082A PCB Solid 4	B 01	8		K006953		
22L0307-43	LDW22-SC752A	8082A PCB Solid 4	B 01	9		K006953		
22L0307-44	LDW22-SC752B	8082A PCB Solid 4	B 01	10		K006953		
22L0307-45	LDW22-SC752C	8082A PCB Solid 4	B 01	11		K006953		
22L0307-46	LDW22-SC752D	8082A PCB Solid 4	B 01	12		K006953		
22L0307-47	LDW22-SC752E	8082A PCB Solid 4	B 01	13		K006953		
22L0307-48	LDW22-SC752F	8082A PCB Solid 4	B 01	14		K006953		
22L0307-49	LDW22-SC752G	8082A PCB Solid 4	B 01	15		K006953		
22L0307-50	LDW22-SC752H	8082A PCB Solid 4	B 01	16		K006953		
BKL0583-MS1	Matrix Spike	QC		17		K006953		
BKL0583-MSD1	Matrix Spike Dup	QC		18		K006953		
22L0307-51	LDW22-SC752B-FD	8082A PCB Solid 4	B 01	19		K006953		
22L0307-52	LDW22-SC800A	8082A PCB Solid 4	B 01	20		K006953		
22L0307-53	LDW22-SC800B	8082A PCB Solid 4	B 01	21		K006953		
22L0307-54	LDW22-SC800C	8082A PCB Solid 4	B 01	22		K006953		

Printed: 1/13/2023 4:23:31PM

ANALYSIS SEQUENCE

SLA0129

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
22L0307-55	LDW22-SC800D	8082A PCB Solid 4	B 01	23		K006953		
22L0307-56	LDW22-SC800E	8082A PCB Solid 4	B 01	24		K006953		
22L0307-58	LDW22-SC800G	8082A PCB Solid 4	B 01	25		K006953		
22L0307-59	LDW22-SC800H	8082A PCB Solid 4	B 01	26		K006953		
SLA0129-CCV1	AR1248CCV1	QC		27	K006956	K006953		
SLA0129-CCV2	AR1660CCV2	QC		28	K006954	K006953		
22L0473-11	LDW21-IT632A	8082A PCB Solid 4	A 01	29		K006953		
22L0246-01	LDW22-SC778B	8082A PCB Solid 4	B 01	30		K006953		
22L0246-18	LDW22-SC779D	8082A PCB Solid 4	B 01	31		K006953		
22L0246-19	LDW22-SC779D-FD	8082A PCB Solid 4	B 01	32		K006953		
22L0246-20	LDW22-SC779E	8082A PCB Solid 4	B 01	33		K006953		
22L0246-28	LDW22-SC777C	8082A PCB Solid 4	B 01	34		K006953		
22L0246-29	LDW22-SC777D	8082A PCB Solid 4	B 01	35		K006953		
SLA0129-CCV3	AR1242CCV3	QC		36	K006955	K006953		
SLA0129-CCV4	AR1660CCV4	QC		37	K006954	K006953		
22L0246-35	LDW22-SC759C	8082A PCB Solid 4	B 01	38		K006953		
22L0246-36	LDW22-SC759D	8082A PCB Solid 4	B 01	39		K006953		
22L0246-34	LDW22-SC777I	8082A PCB Solid 4	B 01	40		K006953		
22L0246-04	LDW22-SC778D	8082A PCB Solid 4	B 01	41		K006953		
22L0246-02	LDW22-SC778C	8082A PCB Solid 4	B 01	42		K006953		
22L0246-03	LDW22-SC778C-FD	8082A PCB Solid 4	B 01	43		K006953		
SLA0129-CCV5	AR1254CCV5	QC		44	K006957	K006953		

Printed: 1/13/2023 4:23:31PM

ANALYSIS SEQUENCE

SLA0129

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
SLA0129-CCV6	AR1660CCV6	QC		45	K006954	K006953		
BKL0687-BLK1	Blank	QC		46		K006953		
BKL0687-BS1	LCS	QC		47		K006953		
BKL0687-BSD1	LCS Dup	QC		48		K006953		
BKL0687-SRM1	Reference	QC		49		K006953		
22L0329-01	LDW22-IT799A	8082A PCB Solid 4	B 01	50		K006953		
22L0329-02	LDW22-IT799B	8082A PCB Solid 4	B 01	51		K006953		
22L0329-03	LDW22-IT799C	8082A PCB Solid 4	A 01	52		K006953		
22L0329-04	LDW22-IT799D	8082A PCB Solid 4	A 01	53		K006953		
22L0329-05	LDW22-IT799E	8082A PCB Solid 4	A 01	54		K006953		
22L0329-06	LDW22-IT799F	8082A PCB Solid 4	B 01	55		K006953		
22L0329-07	LDW22-SC788B	8082A PCB Solid 4	A 01	56		K006953		
22L0329-08	LDW22-SC788C	8082A PCB Solid 4	A 01	57		K006953		
22L0329-09	LDW22-SC788D	8082A PCB Solid 4	B 01	58		K006953		
22L0329-10	LDW22-SC788E	8082A PCB Solid 4	A 01	59		K006953		
SLA0129-CCV7	AR1248CCV7	QC		60	K006956	K006953		
SLA0129-CCV8	AR1660CCV8	QC		61	K006954	K006953		
22L0329-11	LDW22-SC788E-FD	8082A PCB Solid 4	B 01	62		K006953		
22L0329-14	LDW22-SC788H	8082A PCB Solid 4	B 01	63		K006953		
22L0329-15	LDW22-IT791A	8082A PCB Solid 4	B 01	64		K006953		
22L0329-16	LDW22-IT791B	8082A PCB Solid 4	B 01	65		K006953		
BKL0687-MS1	Matrix Spike	QC		66		K006953		

ANALYSIS SEQUENCE

SLA0129

Instrument: ECD7 Element Column ID:
Calibration ID: FL00010

Lab Number	Sample Name	Analysis	Container	Order	STD ID	ISTD ID	Analyzed	Comments
BKL0687-MSD1	Matrix Spike Dup	QC		67		K006953		
22L0329-17	LDW22-IT791C	8082A PCB Solid 4	B 01	68		K006953		
22L0329-18	LDW22-IT791D	8082A PCB Solid 4	B 01	69		K006953		
22L0329-19	LDW22-IT791E	8082A PCB Solid 4	B 01	70		K006953		
22L0329-20	LDW22-IT791F	8082A PCB Solid 4	B 01	71		K006953		
SLA0129-CCV9	AR1242CCV9	QC		72	K006955	K006953		
SLA0129-CCVA	AR1660CCVA	QC		73	K006954	K006953		

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

ARI Job No.: AR12 Method: PCB.m Instrument: ecd7.i Date: 09-JAN-2023

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0924	01092302ECD7.D	AR1254I-CV1		1	NO MANUAL INTEGRATION
0946	01092303ECD7.D	AR1660-ICV2		1	NO MANUAL INTEGRATION
1007	01092304ECD7.D	BKL0583-BLK1		1	NO MANUAL INTEGRATION
1028	01092305ECD7.D	BKL0583-BS1		1	NO MANUAL INTEGRATION
1049	01092306ECD7.D	BKL0583-BSD1		1	NO MANUAL INTEGRATION
1110	01092307ECD7.D	BKL0583-SRM1		1	NO MANUAL INTEGRATION
1131	01092308ECD7.D	22L0307-41		1	NO MANUAL INTEGRATION
1152	01092309ECD7.D	22L0307-42		1	NO MANUAL INTEGRATION
1213	01092310ECD7.D	22L0307-43		1	NO MANUAL INTEGRATION
1234	01092311ECD7.D	22L0307-44		1	NO MANUAL INTEGRATION
1255	01092312ECD7.D	22L0307-45		1	NO MANUAL INTEGRATION
1317	01092313ECD7.D	22L0307-46		1	NO MANUAL INTEGRATION
1338	01092314ECD7.D	22L0307-47		1	NO MANUAL INTEGRATION
1359	01092315ECD7.D	22L0307-48		1	NO MANUAL INTEGRATION
1420	01092316ECD7.D	22L0307-49		1	NO MANUAL INTEGRATION
1441	01092317ECD7.D	22L0307-50		1	NO MANUAL INTEGRATION
1502	01092318ECD7.D	AR1248-CCV1		1	Aroclor-1248,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1523	01092319ECD7.D	AR1660-CCV2		1	NO MANUAL INTEGRATION
1544	01092320ECD7.D	BKL0583-MS1		1	NO MANUAL INTEGRATION
1605	01092321ECD7.D	BKL0583-MSD1		1	NO MANUAL INTEGRATION
1627	01092322ECD7.D	22L0307-51		1	NO MANUAL INTEGRATION
1648	01092323ECD7.D	22L0307-52		1	Aroclor-1254,
1709	01092324ECD7.D	22L0307-53		1	NO MANUAL INTEGRATION
1730	01092325ECD7.D	22L0307-54		1	NO MANUAL INTEGRATION
1751	01092326ECD7.D	22L0307-55		1	Aroclor-1254,
1812	01092327ECD7.D	22L0307-56		1	Aroclor-1254,
1833	01092328ECD7.D	22L0307-57		1	Aroclor-1254,
1854	01092329ECD7.D	22L0307-58		1	Aroclor-1254,
1915	01092330ECD7.D	22L0307-59		1	Aroclor-1254,
1936	01092331ECD7.D	22L0307-60		1	NO MANUAL INTEGRATION
1957	01092332ECD7.D	AR1242-CCV3		1	NO MANUAL INTEGRATION
2019	01092333ECD7.D	AR1660-CCV4		1	NO MANUAL INTEGRATION
2040	01092334ECD7.D	22L0633-01		1	NO MANUAL INTEGRATION
2101	01092335ECD7.D	22L0473-11		10	NO MANUAL INTEGRATION
2122	01092336ECD7.D	22L0246-01		10	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
2143	01092337ECD7.D	22L0246-18		5	NO MANUAL INTEGRATION
2204	01092338ECD7.D	22L0246-19		5	NO MANUAL INTEGRATION
2225	01092339ECD7.D	22L0246-20		10	NO MANUAL INTEGRATION
2246	01092340ECD7.D	22L0246-21		5	NO MANUAL INTEGRATION
2307	01092341ECD7.D	22L0246-22		5	NO MANUAL INTEGRATION
2328	01092342ECD7.D	22L0246-28		5	Decachlorobiphenyl,
2349	01092343ECD7.D	22L0246-29		5	NO MANUAL INTEGRATION
0010	01092344ECD7.D	AR1254-CCV5		1	NO MANUAL INTEGRATION
0031	01092345ECD7.D	AR1660-CCV6		1	NO MANUAL INTEGRATION
0052	01092346ECD7.D	22L0246-35		5	NO MANUAL INTEGRATION
0113	01092347ECD7.D	22L0246-36		5	NO MANUAL INTEGRATION
0134	01092348ECD7.D	22L0246-34		5	NO MANUAL INTEGRATION
0156	01092349ECD7.D	22L0246-01		10	NO MANUAL INTEGRATION
0217	01092350ECD7.D	22L0246-04		5	NO MANUAL INTEGRATION
0238	01092351ECD7.D	22L0246-02		5	NO MANUAL INTEGRATION
0259	01092352ECD7.D	22L0246-03		5	NO MANUAL INTEGRATION
0320	01092353ECD7.D	AR1248-CCV7		1	NO MANUAL INTEGRATION
0341	01092354ECD7.D	AR1660-CCV8		1	NO MANUAL INTEGRATION

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
0402	01092355ECD7.D	BKL0687-BLK1		1	NO MANUAL INTEGRATION
0423	01092356ECD7.D	BKL0687-BS1		1	NO MANUAL INTEGRATION
0444	01092357ECD7.D	BKL0687-BSD1		1	NO MANUAL INTEGRATION
0505	01092358ECD7.D	BKL0687-SRM1		1	NO MANUAL INTEGRATION
0526	01092359ECD7.D	22L0329-01		1	NO MANUAL INTEGRATION
0547	01092360ECD7.D	22L0329-02		1	Aroclor-1254,
0608	01092361ECD7.D	22L0329-03		1	NO MANUAL INTEGRATION
0629	01092362ECD7.D	22L0329-04		1	Aroclor-1254,
0651	01092363ECD7.D	22L0329-05		1	NO MANUAL INTEGRATION
0712	01092364ECD7.D	22L0329-06		1	Aroclor-1254,
0733	01092365ECD7.D	22L0329-07		1	Aroclor-1254,
0754	01092366ECD7.D	22L0329-08		1	Aroclor-1254,
0815	01092367ECD7.D	22L0329-09		1	Aroclor-1254,
0836	01092368ECD7.D	22L0329-10		1	Aroclor-1254,
0857	01092369ECD7.D	AR1242C-CCV9		1	NO MANUAL INTEGRATION
0918	01092370ECD7.D	AR1660-CCVA		1	NO MANUAL INTEGRATION
0939	01092371ECD7.D	22L0329-11		1	Aroclor-1254,
1000	01092372ECD7.D	22L0329-12		1	Aroclor-1254,

MANUAL INTEGRATION SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

Time	Filename	LabID	ClientId	DF	Manually Integrated Compounds
1021	01092373ECD7.D	22L0329-13		1	NO MANUAL INTEGRATION
1042	01092374ECD7.D	22L0329-14		1	Aroclor-1254,
1104	01092375ECD7.D	22L0329-15		1	NO MANUAL INTEGRATION
1125	01092376ECD7.D	22L0329-16		1	NO MANUAL INTEGRATION
1146	01092377ECD7.D	BKL0687-MS1		1	NO MANUAL INTEGRATION
1207	01092378ECD7.D	BKL0687-MSD1		1	NO MANUAL INTEGRATION
1228	01092379ECD7.D	22L0329-17		1	NO MANUAL INTEGRATION
1249	01092380ECD7.D	22L0329-18		1	NO MANUAL INTEGRATION
1310	01092381ECD7.D	22L0329-19		1	NO MANUAL INTEGRATION
1331	01092382ECD7.D	22L0329-20		1	NO MANUAL INTEGRATION
1352	01092383ECD7.D	AR1242-CCVB		1	Aroclor-1242,
1413	01092384ECD7.D	AR1660-CCVC		1	NO MANUAL INTEGRATION

GC LOG SUMMARY FOR DATABATCH - \\target\share\chem4\ecd7.i\230109.b

	Inject Date/Time	Filename	DF	LabID	ClientID
1	09-JAN-2023 09:24	01092302ECD7.D	1	AR1254I-CV1	
2	09-JAN-2023 09:46	01092303ECD7.D	1	AR1660-ICV2	
3	09-JAN-2023 10:07	01092304ECD7.D	1	BKL0583-BLK1	
4	09-JAN-2023 10:28	01092305ECD7.D	1	BKL0583-BS1	
5	09-JAN-2023 10:49	01092306ECD7.D	1	BKL0583-BSD1	
6	09-JAN-2023 11:10	01092307ECD7.D	1	BKL0583-SRM1	
7	09-JAN-2023 11:31	01092308ECD7.D	1	22L0307-41	
8	09-JAN-2023 11:52	01092309ECD7.D	1	22L0307-42	
9	09-JAN-2023 12:13	01092310ECD7.D	1	22L0307-43	
10	09-JAN-2023 12:34	01092311ECD7.D	1	22L0307-44	
11	09-JAN-2023 12:55	01092312ECD7.D	1	22L0307-45	
12	09-JAN-2023 13:17	01092313ECD7.D	1	22L0307-46	
13	09-JAN-2023 13:38	01092314ECD7.D	1	22L0307-47	
14	09-JAN-2023 13:59	01092315ECD7.D	1	22L0307-48	
15	09-JAN-2023 14:20	01092316ECD7.D	1	22L0307-49	
16	09-JAN-2023 14:41	01092317ECD7.D	1	22L0307-50	
17	09-JAN-2023 15:02	01092318ECD7.D	1	AR1248-CCV1	
18	09-JAN-2023 15:23	01092319ECD7.D	1	AR1660-CCV2	
19	09-JAN-2023 15:44	01092320ECD7.D	1	BKL0583-MS1	
20	09-JAN-2023 16:05	01092321ECD7.D	1	BKL0583-MSD1	
21	09-JAN-2023 16:27	01092322ECD7.D	1	22L0307-51	
22	09-JAN-2023 16:48	01092323ECD7.D	1	22L0307-52	
23	09-JAN-2023 17:09	01092324ECD7.D	1	22L0307-53	
24	09-JAN-2023 17:30	01092325ECD7.D	1	22L0307-54	
25	09-JAN-2023 17:51	01092326ECD7.D	1	22L0307-55	
26	09-JAN-2023 18:12	01092327ECD7.D	1	22L0307-56	
27	09-JAN-2023 18:33	01092328ECD7.D	1	22L0307-57	
28	09-JAN-2023 18:54	01092329ECD7.D	1	22L0307-58	
29	09-JAN-2023 19:15	01092330ECD7.D	1	22L0307-59	
30	09-JAN-2023 19:36	01092331ECD7.D	1	22L0307-60	
31	09-JAN-2023 19:57	01092332ECD7.D	1	AR1242-CCV3	
32	09-JAN-2023 20:19	01092333ECD7.D	1	AR1660-CCV4	
33	09-JAN-2023 20:40	01092334ECD7.D	1	22L0633-01	
34	09-JAN-2023 21:01	01092335ECD7.D	10	22L0473-11	
35	09-JAN-2023 21:22	01092336ECD7.D	10	22L0246-01	
36	09-JAN-2023 21:43	01092337ECD7.D	5	22L0246-18	
37	09-JAN-2023 22:04	01092338ECD7.D	5	22L0246-19	
38	09-JAN-2023 22:25	01092339ECD7.D	10	22L0246-20	
39	09-JAN-2023 22:46	01092340ECD7.D	5	22L0246-21	
40	09-JAN-2023 23:07	01092341ECD7.D	5	22L0246-22	
41	09-JAN-2023 23:28	01092342ECD7.D	5	22L0246-28	
42	09-JAN-2023 23:49	01092343ECD7.D	5	22L0246-29	
43	10-JAN-2023 00:10	01092344ECD7.D	1	AR1254-CCV5	
44	10-JAN-2023 00:31	01092345ECD7.D	1	AR1660-CCV6	
45	10-JAN-2023 00:52	01092346ECD7.D	5	22L0246-35	
46	10-JAN-2023 01:13	01092347ECD7.D	5	22L0246-36	
47	10-JAN-2023 01:34	01092348ECD7.D	5	22L0246-34	
48	10-JAN-2023 01:56	01092349ECD7.D	10	22L0246-01	
49	10-JAN-2023 02:17	01092350ECD7.D	5	22L0246-04	
50	10-JAN-2023 02:38	01092351ECD7.D	5	22L0246-02	

	Inject Date/Time	Filename	DF	LabID	ClientID
51	10-JAN-2023 02:59	01092352ECD7.D	5	22L0246-03	
52	10-JAN-2023 03:20	01092353ECD7.D	1	AR1248-CCV7	
53	10-JAN-2023 03:41	01092354ECD7.D	1	AR1660-CCV8	
54	10-JAN-2023 04:02	01092355ECD7.D	1	BKL0687-BLK1	
55	10-JAN-2023 04:23	01092356ECD7.D	1	BKL0687-BS1	
56	10-JAN-2023 04:44	01092357ECD7.D	1	BKL0687-BSD1	
57	10-JAN-2023 05:05	01092358ECD7.D	1	BKL0687-SRM1	
58	10-JAN-2023 05:26	01092359ECD7.D	1	22L0329-01	
59	10-JAN-2023 05:47	01092360ECD7.D	1	22L0329-02	
60	10-JAN-2023 06:08	01092361ECD7.D	1	22L0329-03	
61	10-JAN-2023 06:29	01092362ECD7.D	1	22L0329-04	
62	10-JAN-2023 06:51	01092363ECD7.D	1	22L0329-05	
63	10-JAN-2023 07:12	01092364ECD7.D	1	22L0329-06	
64	10-JAN-2023 07:33	01092365ECD7.D	1	22L0329-07	
65	10-JAN-2023 07:54	01092366ECD7.D	1	22L0329-08	
66	10-JAN-2023 08:15	01092367ECD7.D	1	22L0329-09	
67	10-JAN-2023 08:36	01092368ECD7.D	1	22L0329-10	
68	10-JAN-2023 08:57	01092369ECD7.D	1	AR1242C-CCV9	
69	10-JAN-2023 09:18	01092370ECD7.D	1	AR1660-CCVA	
70	10-JAN-2023 09:39	01092371ECD7.D	1	22L0329-11	
71	10-JAN-2023 10:00	01092372ECD7.D	1	22L0329-12	
72	10-JAN-2023 10:21	01092373ECD7.D	1	22L0329-13	
73	10-JAN-2023 10:42	01092374ECD7.D	1	22L0329-14	
74	10-JAN-2023 11:04	01092375ECD7.D	1	22L0329-15	
75	10-JAN-2023 11:25	01092376ECD7.D	1	22L0329-16	
76	10-JAN-2023 11:46	01092377ECD7.D	1	BKL0687-MS1	
77	10-JAN-2023 12:07	01092378ECD7.D	1	BKL0687-MSD1	
78	10-JAN-2023 12:28	01092379ECD7.D	1	22L0329-17	
79	10-JAN-2023 12:49	01092380ECD7.D	1	22L0329-18	
80	10-JAN-2023 13:10	01092381ECD7.D	1	22L0329-19	
81	10-JAN-2023 13:31	01092382ECD7.D	1	22L0329-20	
82	10-JAN-2023 13:52	01092383ECD7.D	1	AR1242-CCVB	
83	10-JAN-2023 14:13	01092384ECD7.D	1	AR1660-CCVC	

Security Status Report

Date: 13-Jan-2023 16:21

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01092383ECD7.D	Data Locked	yev, 13-
01092384ECD7.D	Data Locked	yev, 13-

Analytical Resources, LLC
Analytical Chemists and Consultants

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SKL0048-SCV1 (Water)			Lab File ID: 12032222ECD7.D			Analyzed: 12/03/22 22:13		
Decachlorobiphenyl	40.000	99.5	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.4	80 - 120	14.137	14.13533	0.0017	N/A	
Tetrachlorometaxylene [2C]	40.000	90.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV2 (Water)			Lab File ID: 12032223ECD7.D			Analyzed: 12/03/22 22:34		
Decachlorobiphenyl	40.000	97.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.9	80 - 120	5.835	5.835333	-0.0003	N/A	
Decachlorobiphenyl [2C]	40.000	95.0	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.5	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV3 (Water)			Lab File ID: 12032224ECD7.D			Analyzed: 12/03/22 22:55		
Decachlorobiphenyl	40.000	98.3	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	86.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	87.7	80 - 120	5.712	5.712333	-0.0003	N/A	
SKL0048-SCV4 (Water)			Lab File ID: 12032225ECD7.D			Analyzed: 12/03/22 23:17		
Decachlorobiphenyl	40.000	98.9	80 - 120	13.909	13.90667	0.0023	N/A	
Tetrachlorometaxylene	40.000	88.8	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	95.2	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	90.0	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV5 (Water)			Lab File ID: 12032226ECD7.D			Analyzed: 12/03/22 23:38		
Decachlorobiphenyl	40.000	100	80 - 120	13.907	13.90667	0.0003	N/A	
Tetrachlorometaxylene	40.000	90.2	80 - 120	5.836	5.835333	0.0007	N/A	
Decachlorobiphenyl [2C]	40.000	96.1	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	89.2	80 - 120	5.713	5.712333	0.0007	N/A	
SKL0048-SCV6 (Water)			Lab File ID: 12032227ECD7.D			Analyzed: 12/03/22 23:59		
Decachlorobiphenyl	40.000	140	80 - 120	13.906	13.90667	-0.0007	N/A	
Tetrachlorometaxylene	40.000	86.2	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	137	80 - 120	14.136	14.13533	0.0007	N/A	
Tetrachlorometaxylene [2C]	40.000	85.6	80 - 120	5.711	5.712333	-0.0013	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0079-ICV1 (Solid)			Lab File ID: 01032302ECD7.D			Analyzed: 01/03/23 07:15		
Decachlorobiphenyl	40.000	122	80 - 120	13.903	13.90667	-0.0037	N/A	*
Tetrachlorometaxylene	40.000	98.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	96.3	80 - 120	5.705	5.712333	-0.0073	N/A	
SLA0079-ICV2 (Solid)			Lab File ID: 01032303ECD7.D			Analyzed: 01/03/23 07:36		
Decachlorobiphenyl	40.000	117	80 - 120	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0079-CCV1 (Solid)			Lab File ID: 01032311ECD7.D			Analyzed: 01/03/23 11:48		
Decachlorobiphenyl	40.000	106	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	93.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0079-CCV2 (Solid)			Lab File ID: 01032312ECD7.D			Analyzed: 01/03/23 12:09		
Decachlorobiphenyl	40.000	113	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0079-CCV3 (Solid)			Lab File ID: 01032330ECD7.D			Analyzed: 01/03/23 18:28		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	97.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0079-CCV4 (Solid)			Lab File ID: 01032331ECD7.D			Analyzed: 01/03/23 18:49		
Decachlorobiphenyl	40.000	119	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg wet	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0571-BLK1 (Solid)			Lab File ID: 01032332ECD7.D			Analyzed: 01/03/23 19:10		
Decachlorobiphenyl	8.0000	103	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	77.1	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	96.9	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	71.9	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0571-BS1 (Solid)			Lab File ID: 01032333ECD7.D			Analyzed: 01/03/23 19:31		
Decachlorobiphenyl	8.0000	102	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	86.3	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	106	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	79.3	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0571-BSD1 (Solid)			Lab File ID: 01032334ECD7.D			Analyzed: 01/03/23 19:52		
Decachlorobiphenyl	8.0000	102	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	87.8	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	105	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	81.7	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0571-MRL1 (Solid)			Lab File ID: 01032335ECD7.D			Analyzed: 01/03/23 20:13		
Decachlorobiphenyl	8.0000	101	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	86.9	44 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	8.0000	105	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	81.4	44 - 120	5.708	5.712333	-0.0043	N/A	
BKL0571-SRM1 (Solid)			Lab File ID: 01032336ECD7.D			Analyzed: 01/03/23 20:34		
Decachlorobiphenyl	40.000	97.8	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	40.000	76.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	91.6	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	40.000	78.2	44 - 120	5.706	5.712333	-0.0063	N/A	
BKL0571-MS1 (Solid)			Lab File ID: 01032337ECD7.D			Analyzed: 01/03/23 20:55		
Decachlorobiphenyl	7.9993	98.9	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9993	80.7	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	7.9993	101	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9993	80.3	44 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0571-MSD1 (Solid)			Lab File ID: 01032338ECD7.D			Analyzed: 01/03/23 21:16		
Decachlorobiphenyl	7.9993	100	40 - 126	13.9	13.90667	-0.0067	N/A	
Tetrachlorometaxylene	7.9993	81.5	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	7.9993	101	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9993	77.3	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0246-44 (Solid)			Lab File ID: 01032342ECD7.D			Analyzed: 01/03/23 22:41		
Decachlorobiphenyl	7.9971	87.7	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9971	52.4	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9971	80.5	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9971	61.2	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-45 (Solid)			Lab File ID: 01032343ECD7.D			Analyzed: 01/03/23 23:02		
Decachlorobiphenyl	7.9846	101	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9846	82.7	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9846	99.7	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9846	81.4	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-46 (Solid)			Lab File ID: 01032344ECD7.D			Analyzed: 01/03/23 23:23		
Decachlorobiphenyl	7.9935	103	40 - 126	13.898	13.90667	-0.0087	N/A	
Tetrachlorometaxylene	7.9935	83.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9935	104	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9935	80.8	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0246-47 (Solid)			Lab File ID: 01032345ECD7.D			Analyzed: 01/03/23 23:44		
Decachlorobiphenyl	7.9642	108	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9642	82.9	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9642	102	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9642	84.6	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0246-48 (Solid)			Lab File ID: 01032346ECD7.D			Analyzed: 01/04/23 00:05		
Decachlorobiphenyl	7.9818	101	40 - 126	13.899	13.90667	-0.0077	N/A	
Tetrachlorometaxylene	7.9818	80.9	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9818	102	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	7.9818	77.0	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0079	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0079-CCV5 (Solid)			Lab File ID: 01032347ECD7.D			Analyzed: 01/04/23 00:26		
Decachlorobiphenyl	40.000	111	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	95.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.3	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0079-CCV6 (Solid)			Lab File ID: 01032348ECD7.D			Analyzed: 01/04/23 00:47		
Decachlorobiphenyl	40.000	114	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	100	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-ICV1 (Solid)			Lab File ID: 01042302ECD7.D			Analyzed: 01/04/23 09:44		
Decachlorobiphenyl	40.000	115	80 - 120	13.905	13.90667	-0.0017	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	92.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0094-ICV2 (Solid)			Lab File ID: 01042303ECD7.D			Analyzed: 01/04/23 10:05		
Decachlorobiphenyl	40.000	115	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0246-41 (Solid)			Lab File ID: 01042304ECD7.D			Analyzed: 01/04/23 10:26		
Decachlorobiphenyl	7.9877	122	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9877	92.4	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9877	95.9	40 - 126	14.125	14.13533	-0.0103	N/A	
Tetrachlorometaxylene [2C]	7.9877	94.6	44 - 120	5.707	5.712333	-0.0053	N/A	
22L0246-42 (Solid)			Lab File ID: 01042305ECD7.D			Analyzed: 01/04/23 10:47		
Decachlorobiphenyl	7.9966	120	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9966	65.7	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9966	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9966	74.7	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-43 (Solid)			Lab File ID: 01042306ECD7.D			Analyzed: 01/04/23 11:08		
Decachlorobiphenyl	7.9967	119	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9967	78.1	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9967	102	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9967	80.6	44 - 120	5.703	5.712333	-0.0093	N/A	
SLA0094-CCV1 (Solid)			Lab File ID: 01042320ECD7.D			Analyzed: 01/04/23 16:03		
Decachlorobiphenyl	40.000	104	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	90.8	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	93.0	80 - 120	5.708	5.712333	-0.0043	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-CCV2 (Solid)			Lab File ID: 01042321ECD7.D			Analyzed: 01/04/23 16:25		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.709	5.712333	-0.0033	N/A	
BKL0492-BLK1 (Solid)			Lab File ID: 01042322ECD7.D			Analyzed: 01/04/23 16:46		
Decachlorobiphenyl	8.0000	109	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	79.0	44 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	8.0000	103	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0000	74.8	44 - 120	5.708	5.712333	-0.0043	N/A	
BKL0492-BS1 (Solid)			Lab File ID: 01042323ECD7.D			Analyzed: 01/04/23 17:07		
Decachlorobiphenyl	8.0000	94.8	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	81.7	44 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	8.0000	97.5	40 - 126	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	8.0000	76.5	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0492-BSD1 (Solid)			Lab File ID: 01042324ECD7.D			Analyzed: 01/04/23 17:28		
Decachlorobiphenyl	8.0000	95.4	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	81.5	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	95.4	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	74.7	44 - 120	5.708	5.712333	-0.0043	N/A	
BKL0492-SRM1 (Solid)			Lab File ID: 01042325ECD7.D			Analyzed: 01/04/23 17:49		
Decachlorobiphenyl	40.000	93.4	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	40.000	73.1	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	40.000	85.3	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	40.000	74.4	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0492-MS1 (Solid)			Lab File ID: 01042326ECD7.D			Analyzed: 01/04/23 18:10		
Decachlorobiphenyl	7.9993	94.5	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9993	66.6	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9993	85.4	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9993	71.6	44 - 120	5.702	5.712333	-0.0103	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0492-MSD1 (Solid)			Lab File ID: 01042327ECD7.D			Analyzed: 01/04/23 18:31		
Decachlorobiphenyl	7.9993	92.1	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9993	66.9	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9993	83.8	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9993	71.5	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-23 (Solid)			Lab File ID: 01042330ECD7.D			Analyzed: 01/04/23 19:34		
Decachlorobiphenyl	7.9733	71.6	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9733	49.1	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9733	66.3	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9733	52.1	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-24 (Solid)			Lab File ID: 01042331ECD7.D			Analyzed: 01/04/23 19:56		
Decachlorobiphenyl	7.9772	96.5	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9772	66.5	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9772	87.1	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9772	74.3	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-25 (Solid)			Lab File ID: 01042332ECD7.D			Analyzed: 01/04/23 20:17		
Decachlorobiphenyl	7.9800	96.8	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9800	63.0	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9800	84.9	40 - 126	14.124	14.13533	-0.0113	N/A	
Tetrachlorometaxylene [2C]	7.9800	72.9	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-26 (Solid)			Lab File ID: 01042333ECD7.D			Analyzed: 01/04/23 20:38		
Decachlorobiphenyl	7.9833	90.7	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9833	58.3	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9833	81.6	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9833	72.5	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-27 (Solid)			Lab File ID: 01042334ECD7.D			Analyzed: 01/04/23 20:59		
Decachlorobiphenyl	7.9996	91.6	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9996	61.3	44 - 120	5.823	5.835333	-0.0123	N/A	
Decachlorobiphenyl [2C]	7.9996	85.8	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9996	71.8	44 - 120	5.699	5.712333	-0.0133	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-30 (Solid)			Lab File ID: 01042337ECD7.D			Analyzed: 01/04/23 22:02		
Decachlorobiphenyl	7.9880	89.5	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9880	57.3	44 - 120	5.823	5.835333	-0.0123	N/A	
Decachlorobiphenyl [2C]	7.9880	81.8	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9880	68.5	44 - 120	5.699	5.712333	-0.0133	N/A	
SLA0094-CCV3 (Solid)			Lab File ID: 01042338ECD7.D			Analyzed: 01/04/23 22:23		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	98.5	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	96.5	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0094-CCV4 (Solid)			Lab File ID: 01042339ECD7.D			Analyzed: 01/04/23 22:44		
Decachlorobiphenyl	40.000	118	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	99.8	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0246-31 (Solid)			Lab File ID: 01042340ECD7.D			Analyzed: 01/04/23 23:06		
Decachlorobiphenyl	7.9877	92.0	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9877	62.6	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9877	81.7	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9877	72.4	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-32 (Solid)			Lab File ID: 01042341ECD7.D			Analyzed: 01/04/23 23:27		
Decachlorobiphenyl	7.9864	107	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9864	59.5	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9864	97.0	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9864	65.7	44 - 120	5.7	5.712333	-0.0123	N/A	
22L0246-33 (Solid)			Lab File ID: 01042342ECD7.D			Analyzed: 01/04/23 23:48		
Decachlorobiphenyl	7.9795	86.3	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9795	54.9	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9795	80.0	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9795	60.9	44 - 120	5.701	5.712333	-0.0113	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-37 (Solid)			Lab File ID: 01042346ECD7.D			Analyzed: 01/05/23 01:12		
Decachlorobiphenyl	7.9993	92.6	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9993	69.6	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9993	88.3	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9993	76.3	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-38 (Solid)			Lab File ID: 01042347ECD7.D			Analyzed: 01/05/23 01:33		
Decachlorobiphenyl	8.0018	95.9	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	8.0018	72.3	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	8.0018	88.1	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	8.0018	76.9	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-39 (Solid)			Lab File ID: 01042348ECD7.D			Analyzed: 01/05/23 01:55		
Decachlorobiphenyl	7.9725	92.5	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9725	69.1	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9725	82.6	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9725	75.8	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-40 (Solid)			Lab File ID: 01042349ECD7.D			Analyzed: 01/05/23 02:16		
Decachlorobiphenyl	7.9907	85.7	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9907	64.1	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9907	75.8	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9907	70.8	44 - 120	5.701	5.712333	-0.0113	N/A	
SLA0094-CCV5 (Solid)			Lab File ID: 01042350ECD7.D			Analyzed: 01/05/23 02:37		
Decachlorobiphenyl	40.000	110	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.0	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	90.5	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0094-CCV6 (Solid)			Lab File ID: 01042351ECD7.D			Analyzed: 01/05/23 02:58		
Decachlorobiphenyl	40.000	116	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0094-CCV7 (Solid)			Lab File ID: 01042357ECD7.D			Analyzed: 01/05/23 05:05		
Decachlorobiphenyl	40.000	106	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	92.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	99.0	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0094-CCV8 (Solid)			Lab File ID: 01042358ECD7.D			Analyzed: 01/05/23 05:26		
Decachlorobiphenyl	40.000	111	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	97.5	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	99.8	80 - 120	5.707	5.712333	-0.0053	N/A	
BKL0490-BLK1 (Solid)			Lab File ID: 01042359ECD7.D			Analyzed: 01/05/23 05:47		
Decachlorobiphenyl	8.0000	113	40 - 126	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	8.0000	85.0	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	109	40 - 126	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	8.0000	80.4	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0490-BS1 (Solid)			Lab File ID: 01042360ECD7.D			Analyzed: 01/05/23 06:08		
Decachlorobiphenyl	8.0000	107	40 - 126	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	8.0000	89.2	44 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	8.0000	111	40 - 126	14.129	14.13533	-0.0063	N/A	
Tetrachlorometaxylene [2C]	8.0000	84.0	44 - 120	5.707	5.712333	-0.0053	N/A	
BKL0490-BSD1 (Solid)			Lab File ID: 01042361ECD7.D			Analyzed: 01/05/23 06:29		
Decachlorobiphenyl	8.0000	106	40 - 126	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	8.0000	87.3	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	8.0000	110	40 - 126	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	8.0000	81.8	44 - 120	5.705	5.712333	-0.0073	N/A	
BKL0490-SRM1 (Solid)			Lab File ID: 01042362ECD7.D			Analyzed: 01/05/23 06:50		
Decachlorobiphenyl	40.000	108	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	40.000	82.8	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	40.000	98.6	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	40.000	85.5	44 - 120	5.705	5.712333	-0.0073	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
BKL0490-MS1 (Solid)			Lab File ID: 01042363ECD7.D			Analyzed: 01/05/23 07:11		
Decachlorobiphenyl	8.0000	108	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0000	59.7	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	8.0000	95.5	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	8.0000	77.5	44 - 120	5.701	5.712333	-0.0113	N/A	
BKL0490-MSD1 (Solid)			Lab File ID: 01042364ECD7.D			Analyzed: 01/05/23 07:32		
Decachlorobiphenyl	8.0000	108	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0000	59.7	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	8.0000	96.0	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	8.0000	77.1	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-08 (Solid)			Lab File ID: 01042372ECD7.D			Analyzed: 01/05/23 10:21		
Decachlorobiphenyl	7.9902	111	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9902	57.9	44 - 120	5.823	5.835333	-0.0123	N/A	
Decachlorobiphenyl [2C]	7.9902	105	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9902	73.8	44 - 120	5.699	5.712333	-0.0133	N/A	
22L0246-10 (Solid)			Lab File ID: 01042374ECD7.D			Analyzed: 01/05/23 11:04		
Decachlorobiphenyl	7.9792	110	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9792	60.5	44 - 120	5.823	5.835333	-0.0123	N/A	
Decachlorobiphenyl [2C]	7.9792	98.7	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9792	73.3	44 - 120	5.7	5.712333	-0.0123	N/A	
SLA0094-CCV9 (Solid)			Lab File ID: 01042375ECD7.D			Analyzed: 01/05/23 11:25		
Decachlorobiphenyl	40.000	108	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	92.0	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0094-CCVA (Solid)			Lab File ID: 01042376ECD7.D			Analyzed: 01/05/23 11:46		
Decachlorobiphenyl	40.000	121	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	99.5	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	105	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.706	5.712333	-0.0063	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0096
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-05 (Solid)			Lab File ID: 01042369ECD7.D			Analyzed: 01/05/23 09:18		
Decachlorobiphenyl	8.0005	125	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	8.0005	51.8	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	8.0005	114	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	8.0005	75.9	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-11 (Solid)			Lab File ID: 01052321ECD7.D			Analyzed: 01/05/23 19:25		
Decachlorobiphenyl	8.0016	116	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	8.0016	56.9	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	8.0016	101	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	8.0016	79.5	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-12 (Solid)			Lab File ID: 01052322ECD7.D			Analyzed: 01/05/23 19:46		
Decachlorobiphenyl	7.9982	107	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9982	55.6	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9982	94.8	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9982	74.7	44 - 120	5.7	5.712333	-0.0123	N/A	
22L0246-13 (Solid)			Lab File ID: 01052323ECD7.D			Analyzed: 01/05/23 20:07		
Decachlorobiphenyl	7.9994	113	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9994	55.7	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9994	98.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9994	78.4	44 - 120	5.701	5.712333	-0.0113	N/A	
22L0246-14 (Solid)			Lab File ID: 01052324ECD7.D			Analyzed: 01/05/23 20:28		
Decachlorobiphenyl	7.9754	112	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9754	65.0	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9754	100	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9754	81.8	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-15 (Solid)			Lab File ID: 01052325ECD7.D			Analyzed: 01/05/23 20:49		
Decachlorobiphenyl	7.9810	106	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9810	68.6	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9810	96.7	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9810	82.0	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-16 (Solid)			Lab File ID: 01052326ECD7.D			Analyzed: 01/05/23 21:10		
Decachlorobiphenyl	7.8157	107	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.8157	66.8	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.8157	99.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.8157	79.9	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-17 (Solid)			Lab File ID: 01052327ECD7.D			Analyzed: 01/05/23 21:31		
Decachlorobiphenyl	8.3098	111	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.3098	70.8	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	8.3098	103	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	8.3098	79.2	44 - 120	5.703	5.712333	-0.0093	N/A	
SLA0096-CCV3 (Solid)			Lab File ID: 01052331ECD7.D			Analyzed: 01/05/23 22:56		
Decachlorobiphenyl	40.000	108	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	93.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	94.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV4 (Solid)			Lab File ID: 01052332ECD7.D			Analyzed: 01/05/23 23:17		
Decachlorobiphenyl	40.000	122	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.8	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV5 (Solid)			Lab File ID: 01052349ECD7.D			Analyzed: 01/06/23 05:15		
Decachlorobiphenyl	40.000	107	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.3	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.709	5.712333	-0.0033	N/A	
SLA0096-CCV6 (Solid)			Lab File ID: 01052350ECD7.D			Analyzed: 01/06/23 05:36		
Decachlorobiphenyl	40.000	112	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	97.3	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0096-CCV7 (Solid)			Lab File ID: 01052361ECD7.D			Analyzed: 01/06/23 09:28		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	91.5	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	95.3	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCV8 (Solid)			Lab File ID: 01052362ECD7.D			Analyzed: 01/06/23 09:49		
Decachlorobiphenyl	40.000	113	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0246-21 (Solid)			Lab File ID: 01052363ECD7.D			Analyzed: 01/06/23 10:10		
Decachlorobiphenyl	7.9865	116	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9865	68.2	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9865	94.0	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9865	71.4	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-22 (Solid)			Lab File ID: 01052364ECD7.D			Analyzed: 01/06/23 10:31		
Decachlorobiphenyl	7.9955	136	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9955	82.9	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9955	103	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	7.9955	86.4	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0246-06 (Solid)			Lab File ID: 01052365ECD7.D			Analyzed: 01/06/23 10:52		
Decachlorobiphenyl	8.1046	124	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.1046	74.7	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	8.1046	107	40 - 126	14.123	14.13533	-0.0123	N/A	
Tetrachlorometaxylene [2C]	8.1046	82.8	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-07 (Solid)			Lab File ID: 01052366ECD7.D			Analyzed: 01/06/23 11:13		
Decachlorobiphenyl	7.9971	95.3	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9971	55.0	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9971	83.4	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9971	64.1	44 - 120	5.7	5.712333	-0.0123	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-09 (Solid)			Lab File ID: 01052368ECD7.D			Analyzed: 01/06/23 11:55		
Decachlorobiphenyl	7.9902	123	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	7.9902	67.2	44 - 120	5.824	5.835333	-0.0113	N/A	
Decachlorobiphenyl [2C]	7.9902	112	40 - 126	14.122	14.13533	-0.0133	N/A	
Tetrachlorometaxylene [2C]	7.9902	75.2	44 - 120	5.7	5.712333	-0.0123	N/A	
SLA0096-CCV9 (Solid)			Lab File ID: 01052372ECD7.D			Analyzed: 01/06/23 13:19		
Decachlorobiphenyl	40.000	117	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.8	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	98.3	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	94.0	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0096-CCVA (Solid)			Lab File ID: 01052373ECD7.D			Analyzed: 01/06/23 13:40		
Decachlorobiphenyl	40.000	124	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0096-CCVB (Solid)			Lab File ID: 01052384ECD7.D			Analyzed: 01/06/23 17:32		
Decachlorobiphenyl	40.000	110	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	90.3	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	90.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0096-CCVC (Solid)			Lab File ID: 01052385ECD7.D			Analyzed: 01/06/23 17:53		
Decachlorobiphenyl	40.000	117	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	101	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	105	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0096-CCVD (Solid)			Lab File ID: 01052392ECD7.D			Analyzed: 01/06/23 20:21		
Decachlorobiphenyl	40.000	112	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	91.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	103	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	93.3	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0096-CCVE (Solid)			Lab File ID: 01052393ECD7.D			Analyzed: 01/06/23 20:42		
Decachlorobiphenyl	40.000	118	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	98.5	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	101	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.709	5.712333	-0.0033	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0129
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0129-ICV1 (Solid)			Lab File ID: 01092302ECD7.D			Analyzed: 01/09/23 09:24		
Decachlorobiphenyl	40.000	103	80 - 120	13.904	13.90667	-0.0027	N/A	
Tetrachlorometaxylene	40.000	98.0	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	96.8	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0129-ICV2 (Solid)			Lab File ID: 01092303ECD7.D			Analyzed: 01/09/23 09:46		
Decachlorobiphenyl	40.000	99.4	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	108	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	104	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0129-CCV1 (Solid)			Lab File ID: 01092318ECD7.D			Analyzed: 01/09/23 15:02		
Decachlorobiphenyl	40.000	98.7	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	93.3	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	98.1	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	92.7	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0129-CCV2 (Solid)			Lab File ID: 01092319ECD7.D			Analyzed: 01/09/23 15:23		
Decachlorobiphenyl	40.000	102	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	100	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	101	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0129-CCV3 (Solid)			Lab File ID: 01092332ECD7.D			Analyzed: 01/09/23 19:57		
Decachlorobiphenyl	40.000	102	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	97.4	80 - 120	5.833	5.835333	-0.0023	N/A	
Decachlorobiphenyl [2C]	40.000	106	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	93.8	80 - 120	5.709	5.712333	-0.0033	N/A	
SLA0129-CCV4 (Solid)			Lab File ID: 01092333ECD7.D			Analyzed: 01/09/23 20:19		
Decachlorobiphenyl	40.000	107	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	109	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	106	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	105	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0129
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-01 (Solid)			Lab File ID: 01092336ECD7.D			Analyzed: 01/09/23 21:22		
Decachlorobiphenyl	0.079843	153	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	0.079843	90.0	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	0.079843	140	40 - 126	14.117	14.13533	-0.0183	N/A	*
Tetrachlorometaxylene [2C]	0.079843	104	44 - 120	5.705	5.712333	-0.0073	N/A	
22L0246-18 (Solid)			Lab File ID: 01092337ECD7.D			Analyzed: 01/09/23 21:43		
Decachlorobiphenyl	7.9919	128	40 - 126	13.894	13.90667	-0.0127	N/A	*
Tetrachlorometaxylene	7.9919	97.9	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9919	125	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9919	97.7	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-19 (Solid)			Lab File ID: 01092338ECD7.D			Analyzed: 01/09/23 22:04		
Decachlorobiphenyl	7.9924	127	40 - 126	13.895	13.90667	-0.0117	N/A	*
Tetrachlorometaxylene	7.9924	93.9	44 - 120	5.828	5.835333	-0.0073	N/A	
Decachlorobiphenyl [2C]	7.9924	126	40 - 126	14.12	14.13533	-0.0153	N/A	
Tetrachlorometaxylene [2C]	7.9924	98.6	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-20 (Solid)			Lab File ID: 01092339ECD7.D			Analyzed: 01/09/23 22:25		
Decachlorobiphenyl	7.9945	144	40 - 126	13.896	13.90667	-0.0107	N/A	*
Tetrachlorometaxylene	7.9945	88.2	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9945	133	40 - 126	14.121	14.13533	-0.0143	N/A	*
Tetrachlorometaxylene [2C]	7.9945	92.2	44 - 120	5.704	5.712333	-0.0083	N/A	
22L0246-28 (Solid)			Lab File ID: 01092342ECD7.D			Analyzed: 01/09/23 23:28		
Decachlorobiphenyl	7.9752	112	40 - 126	13.897	13.90667	-0.0097	N/A	
Tetrachlorometaxylene	7.9752	84.4	44 - 120	5.829	5.835333	-0.0063	N/A	
Decachlorobiphenyl [2C]	7.9752	124	40 - 126	14.12	14.13533	-0.0153	N/A	
Tetrachlorometaxylene [2C]	7.9752	88.1	44 - 120	5.706	5.712333	-0.0063	N/A	
22L0246-29 (Solid)			Lab File ID: 01092343ECD7.D			Analyzed: 01/09/23 23:49		
Decachlorobiphenyl	7.9915	106	40 - 126	13.896	13.90667	-0.0107	N/A	
Tetrachlorometaxylene	7.9915	84.3	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9915	85.3	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9915	79.9	44 - 120	5.703	5.712333	-0.0093	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0129
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0129-CCV5 (Solid)			Lab File ID: 01092344ECD7.D				Analyzed: 01/10/23 00:10	
Decachlorobiphenyl	40.000	105	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	96.7	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	94.3	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0129-CCV6 (Solid)			Lab File ID: 01092345ECD7.D				Analyzed: 01/10/23 00:31	
Decachlorobiphenyl	40.000	106	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	108	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	103	80 - 120	5.707	5.712333	-0.0053	N/A	
22L0246-35 (Solid)			Lab File ID: 01092346ECD7.D				Analyzed: 01/10/23 00:52	
Decachlorobiphenyl	7.9758	108	40 - 126	13.893	13.90667	-0.0137	N/A	
Tetrachlorometaxylene	7.9758	84.3	44 - 120	5.827	5.835333	-0.0083	N/A	
Decachlorobiphenyl [2C]	7.9758	104	40 - 126	14.12	14.13533	-0.0153	N/A	
Tetrachlorometaxylene [2C]	7.9758	86.8	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-36 (Solid)			Lab File ID: 01092347ECD7.D				Analyzed: 01/10/23 01:13	
Decachlorobiphenyl	7.9884	104	40 - 126	13.895	13.90667	-0.0117	N/A	
Tetrachlorometaxylene	7.9884	80.9	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9884	93.0	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	7.9884	85.7	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-34 (Solid)			Lab File ID: 01092348ECD7.D				Analyzed: 01/10/23 01:34	
Decachlorobiphenyl	8.0003	107	40 - 126	13.894	13.90667	-0.0127	N/A	
Tetrachlorometaxylene	8.0003	61.3	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	8.0003	91.9	40 - 126	14.121	14.13533	-0.0143	N/A	
Tetrachlorometaxylene [2C]	8.0003	70.7	44 - 120	5.703	5.712333	-0.0093	N/A	
22L0246-04 (Solid)			Lab File ID: 01092350ECD7.D				Analyzed: 01/10/23 02:17	
Decachlorobiphenyl	7.9715	139	40 - 126	13.893	13.90667	-0.0137	N/A	*
Tetrachlorometaxylene	7.9715	78.5	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9715	120	40 - 126	14.12	14.13533	-0.0153	N/A	
Tetrachlorometaxylene [2C]	7.9715	98.0	44 - 120	5.701	5.712333	-0.0113	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory: Analytical Resources, LLC
SDG/WO: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0129
Instrument: ECD7
Calibration: FL00010
Calibration Date: 12/03/2022

Surrogate Compound	Spike Level ug/kg dry	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
22L0246-02 (Solid)			Lab File ID: 01092351ECD7.D			Analyzed: 01/10/23 02:38		
Decachlorobiphenyl	7.9902	136	40 - 126	13.894	13.90667	-0.0127	N/A	*
Tetrachlorometaxylene	7.9902	77.0	44 - 120	5.825	5.835333	-0.0103	N/A	
Decachlorobiphenyl [2C]	7.9902	142	40 - 126	14.119	14.13533	-0.0163	N/A	*
Tetrachlorometaxylene [2C]	7.9902	95.8	44 - 120	5.702	5.712333	-0.0103	N/A	
22L0246-03 (Solid)			Lab File ID: 01092352ECD7.D			Analyzed: 01/10/23 02:59		
Decachlorobiphenyl	7.9979	146	40 - 126	13.895	13.90667	-0.0117	N/A	*
Tetrachlorometaxylene	7.9979	77.9	44 - 120	5.826	5.835333	-0.0093	N/A	
Decachlorobiphenyl [2C]	7.9979	120	40 - 126	14.118	14.13533	-0.0173	N/A	
Tetrachlorometaxylene [2C]	7.9979	100	44 - 120	5.702	5.712333	-0.0103	N/A	
SLA0129-CCV7 (Solid)			Lab File ID: 01092353ECD7.D			Analyzed: 01/10/23 03:20		
Decachlorobiphenyl	40.000	95.4	80 - 120	13.903	13.90667	-0.0037	N/A	
Tetrachlorometaxylene	40.000	95.4	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	102	80 - 120	14.128	14.13533	-0.0073	N/A	
Tetrachlorometaxylene [2C]	40.000	92.6	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0129-CCV8 (Solid)			Lab File ID: 01092354ECD7.D			Analyzed: 01/10/23 03:41		
Decachlorobiphenyl	40.000	98.4	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	107	80 - 120	5.832	5.835333	-0.0033	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	102	80 - 120	5.708	5.712333	-0.0043	N/A	
SLA0129-CCV9 (Solid)			Lab File ID: 01092369ECD7.D			Analyzed: 01/10/23 08:57		
Decachlorobiphenyl	40.000	105	80 - 120	13.901	13.90667	-0.0057	N/A	
Tetrachlorometaxylene	40.000	96.4	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	110	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	92.4	80 - 120	5.706	5.712333	-0.0063	N/A	
SLA0129-CCVA (Solid)			Lab File ID: 01092370ECD7.D			Analyzed: 01/10/23 09:18		
Decachlorobiphenyl	40.000	109	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	104	80 - 120	5.831	5.835333	-0.0043	N/A	
Decachlorobiphenyl [2C]	40.000	104	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	

SURROGATE RECOVERY AND RT SUMMARY
EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG/WO:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0129	Instrument:	ECD7
Calibration:	FL00010	Calibration Date:	12/03/2022

Surrogate Compound	Spike Level ug/L	% Recovery	Recovery Limits	RT	Calibration Mean RT	RT Diff	RT Diff Limit	Q
SLA0129-CCVB (Solid)			Lab File ID: 01092383ECD7.D			Analyzed: 01/10/23 13:52		
Decachlorobiphenyl	40.000	97.3	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	98.9	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	107	80 - 120	14.126	14.13533	-0.0093	N/A	
Tetrachlorometaxylene [2C]	40.000	95.8	80 - 120	5.707	5.712333	-0.0053	N/A	
SLA0129-CCVC (Solid)			Lab File ID: 01092384ECD7.D			Analyzed: 01/10/23 14:13		
Decachlorobiphenyl	40.000	100	80 - 120	13.902	13.90667	-0.0047	N/A	
Tetrachlorometaxylene	40.000	103	80 - 120	5.83	5.835333	-0.0053	N/A	
Decachlorobiphenyl [2C]	40.000	106	80 - 120	14.127	14.13533	-0.0083	N/A	
Tetrachlorometaxylene [2C]	40.000	100	80 - 120	5.707	5.712333	-0.0053	N/A	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0048	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Secondary Cal Check (SKL0048-SCV1)		(Water)	Lab File ID: 12032222ECD7.D				Analyzed: 12/03/22 22:13		
1-Bromo-2-Nitrobenzene	483506	3.518	457669	3.516	106	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	892033	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270882	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	432562	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV2)		(Water)	Lab File ID: 12032223ECD7.D				Analyzed: 12/03/22 22:34		
1-Bromo-2-Nitrobenzene	480791	3.515	457669	3.516	105	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	896515	14.281	837264	14.278	107	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270117	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	422729	15.023	387892	15.021	109	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV3)		(Water)	Lab File ID: 12032224ECD7.D				Analyzed: 12/03/22 22:55		
1-Bromo-2-Nitrobenzene	484977	3.515	457669	3.516	106	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	915518	14.281	837264	14.278	109	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	272055	3.955	254712	3.955	107	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	426674	15.023	387892	15.021	110	50 - 200	0.002	+/-0.50	
Secondary Cal Check (SKL0048-SCV4)		(Water)	Lab File ID: 12032225ECD7.D				Analyzed: 12/03/22 23:17		
1-Bromo-2-Nitrobenzene	484642	3.516	457669	3.516	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	917405	14.28	837264	14.278	110	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270782	3.955	254712	3.955	106	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	431238	15.024	387892	15.021	111	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV5)		(Water)	Lab File ID: 12032226ECD7.D				Analyzed: 12/03/22 23:38		
1-Bromo-2-Nitrobenzene	482097	3.517	457669	3.516	105	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	913775	14.28	837264	14.278	109	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	268757	3.956	254712	3.955	106	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	434790	15.024	387892	15.021	112	50 - 200	0.003	+/-0.50	
Secondary Cal Check (SKL0048-SCV6)		(Water)	Lab File ID: 12032227ECD7.D				Analyzed: 12/03/22 23:59		
1-Bromo-2-Nitrobenzene	483276	3.514	457669	3.516	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	920878	14.281	837264	14.278	110	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	270175	3.953	254712	3.955	106	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	435731	15.023	387892	15.021	112	50 - 200	0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0079	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0079-ICV1)		(Solid)	Lab File ID: 01032302ECD7.D				Analyzed: 01/03/23 07:15		
1-Bromo-2-Nitrobenzene	337001	3.514	337001	3.514	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	738202	14.273	738202	14.273	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	233904	3.95	233904	3.95	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	392020	15.014	392020	15.014	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLA0079-ICV2)		(Solid)	Lab File ID: 01032303ECD7.D				Analyzed: 01/03/23 07:36		
1-Bromo-2-Nitrobenzene	259175	3.513	337001	3.514	77	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	638343	14.27	738202	14.273	86	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	180225	3.95	233904	3.95	77	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	337549	15.014	392020	15.014	86	50 - 200	0.000	+/-0.50	
Blank (BKL0571-BLK1)		(Solid)	Lab File ID: 01032332ECD7.D				Analyzed: 01/03/23 19:10		
1-Bromo-2-Nitrobenzene	505233	3.513	337001	3.514	150	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1081106	14.275	738202	14.273	146	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	347667	3.95	233904	3.95	149	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	548472	15.014	392020	15.014	140	50 - 200	0.000	+/-0.50	
LCS (BKL0571-BS1)		(Solid)	Lab File ID: 01032333ECD7.D				Analyzed: 01/03/23 19:31		
1-Bromo-2-Nitrobenzene	504265	3.513	337001	3.514	150	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	1155108	14.275	738202	14.273	156	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	346956	3.951	233904	3.95	148	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	570479	15.015	392020	15.014	146	50 - 200	0.001	+/-0.50	
LCS Dup (BKL0571-BSD1)		(Solid)	Lab File ID: 01032334ECD7.D				Analyzed: 01/03/23 19:52		
1-Bromo-2-Nitrobenzene	497858	3.514	337001	3.514	148	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1160932	14.276	738202	14.273	157	50 - 200	0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	339107	3.952	233904	3.95	145	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	574327	15.016	392020	15.014	147	50 - 200	0.002	+/-0.50	
MRL Check (BKL0571-MRL1)		(Solid)	Lab File ID: 01032335ECD7.D				Analyzed: 01/03/23 20:13		
1-Bromo-2-Nitrobenzene	494347	3.516	337001	3.514	147	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	1221894	14.275	738202	14.273	166	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	337346	3.953	233904	3.95	144	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl [2C]	581768	15.017	392020	15.014	148	50 - 200	0.003	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0079

SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Reference (BKL0571-SRM1)		(Solid)	Lab File ID: 01032336ECD7.D				Analyzed: 01/03/23 20:34		
1-Bromo-2-Nitrobenzene	506257	3.515	337001	3.514	150	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	780557	14.263	738202	14.273	106	50 - 200	-0.010	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	330833	3.952	233904	3.95	141	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	478196	15.009	392020	15.014	122	50 - 200	-0.005	+/-0.50	
Matrix Spike (BKL0571-MS1)		(Solid)	Lab File ID: 01032337ECD7.D				Analyzed: 01/03/23 20:55		
1-Bromo-2-Nitrobenzene	521320	3.515	337001	3.514	155	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1077879	14.269	738202	14.273	146	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	342690	3.951	233904	3.95	147	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	562313	15.011	392020	15.014	143	50 - 200	-0.003	+/-0.50	
Matrix Spike Dup (BKL0571-MSD1)		(Solid)	Lab File ID: 01032338ECD7.D				Analyzed: 01/03/23 21:16		
1-Bromo-2-Nitrobenzene	506907	3.514	337001	3.514	150	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1105936	14.269	738202	14.273	150	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	346111	3.951	233904	3.95	148	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	569588	15.011	392020	15.014	145	50 - 200	-0.003	+/-0.50	
LDW22-IT809C (22L0246-44)		(Solid)	Lab File ID: 01032342ECD7.D				Analyzed: 01/03/23 22:41		
1-Bromo-2-Nitrobenzene	450958	3.512	259175	3.513	174	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	388621	14.258	638343	14.27	61	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	291019	3.95	180225	3.95	161	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	311845	15.007	337549	15.014	92	50 - 200	-0.007	+/-0.50	
LDW22-IT809D (22L0246-45)		(Solid)	Lab File ID: 01032343ECD7.D				Analyzed: 01/03/23 23:02		
1-Bromo-2-Nitrobenzene	464154	3.513	259175	3.513	179	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	590582	14.264	638343	14.27	93	50 - 200	-0.006	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	325931	3.951	180225	3.95	181	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	392299	15.011	337549	15.014	116	50 - 200	-0.003	+/-0.50	
LDW22-IT809E (22L0246-46)		(Solid)	Lab File ID: 01032344ECD7.D				Analyzed: 01/03/23 23:23		
1-Bromo-2-Nitrobenzene	474360	3.513	259175	3.513	183	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	758163	14.266	638343	14.27	119	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	333861	3.95	180225	3.95	185	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	450491	15.01	337549	15.014	133	50 - 200	-0.004	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0079
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT809F (22L0246-47)		(Solid)		Lab File ID: 01032345ECD7.D				Analyzed: 01/03/23 23:44	
1-Bromo-2-Nitrobenzene	478968	3.513	259175	3.513	185	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	740695	14.264	638343	14.27	116	50 - 200	-0.006	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	319204	3.95	180225	3.95	177	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	449531	15.009	337549	15.014	133	50 - 200	-0.005	+/-0.50	
LDW22-IT809G (22L0246-48)		(Solid)		Lab File ID: 01032346ECD7.D				Analyzed: 01/04/23 00:05	
1-Bromo-2-Nitrobenzene	485557	3.513	259175	3.513	187	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	912556	14.266	638343	14.27	143	50 - 200	-0.004	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	339793	3.95	180225	3.95	189	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	501138	15.011	337549	15.014	148	50 - 200	-0.003	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0094-ICV1)		(Solid)	Lab File ID: 01042302ECD7.D				Analyzed: 01/04/23 09:44		
1-Bromo-2-Nitrobenzene	342409	3.514	247920	3.512	138	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	762680	14.278	626149	14.276	122	50 - 200	0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	231515	3.951	167179	3.95	138	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	391032	15.015	313761	15.016	125	50 - 200	-0.001	+/-0.50	
Initial Cal Check (SLA0094-ICV2)		(Solid)	Lab File ID: 01042303ECD7.D				Analyzed: 01/04/23 10:05		
1-Bromo-2-Nitrobenzene	247920	3.512	247920	3.512	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	626149	14.276	626149	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	167179	3.95	167179	3.95	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	313761	15.016	313761	15.016	100	50 - 200	0.000	+/-0.50	
LDW22-SC759B (22L0246-41)		(Solid)	Lab File ID: 01042304ECD7.D				Analyzed: 01/04/23 10:26		
1-Bromo-2-Nitrobenzene	442740	3.515	247920	3.512	179	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	632927	14.262	626149	14.276	101	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	298986	3.952	167179	3.95	179	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	424189	15.009	313761	15.016	135	50 - 200	-0.007	+/-0.50	
LDW22-IT809A (22L0246-42)		(Solid)	Lab File ID: 01042305ECD7.D				Analyzed: 01/04/23 10:47		
1-Bromo-2-Nitrobenzene	426231	3.514	247920	3.512	172	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	552010	14.259	626149	14.276	88	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	285980	3.95	167179	3.95	171	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	377992	15.008	313761	15.016	120	50 - 200	-0.008	+/-0.50	
LDW22-IT809B (22L0246-43)		(Solid)	Lab File ID: 01042306ECD7.D				Analyzed: 01/04/23 11:08		
1-Bromo-2-Nitrobenzene	447031	3.512	247920	3.512	180	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	535698	14.261	626149	14.276	86	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	296821	3.95	167179	3.95	178	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	376130	15.008	313761	15.016	120	50 - 200	-0.008	+/-0.50	
Blank (BKL0492-BLK1)		(Solid)	Lab File ID: 01042322ECD7.D				Analyzed: 01/04/23 16:46		
1-Bromo-2-Nitrobenzene	521440	3.515	247920	3.512	210	50 - 200	0.003	+/-0.50	*
Hexabromobiphenyl	1176440	14.275	626149	14.276	188	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	357636	3.953	167179	3.95	214	50 - 200	0.003	+/-0.50	*
Hexabromobiphenyl [2C]	601278	15.014	313761	15.016	192	50 - 200	-0.002	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0094	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LCS (BKL0492-BS1)		(Solid)		Lab File ID: 01042323ECD7.D				Analyzed: 01/04/23 17:07	
1-Bromo-2-Nitrobenzene	537175	3.513	247920	3.512	217	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	1256466	14.275	626149	14.276	201	50 - 200	-0.001	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	364142	3.95	167179	3.95	218	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	624239	15.015	313761	15.016	199	50 - 200	-0.001	+/-0.50	
LCS Dup (BKL0492-BSD1)		(Solid)		Lab File ID: 01042324ECD7.D				Analyzed: 01/04/23 17:28	
1-Bromo-2-Nitrobenzene	528600	3.515	247920	3.512	213	50 - 200	0.003	+/-0.50	*
Hexabromobiphenyl	1224490	14.275	626149	14.276	196	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	358860	3.952	167179	3.95	215	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl [2C]	621651	15.015	313761	15.016	198	50 - 200	-0.001	+/-0.50	
Reference (BKL0492-SRM1)		(Solid)		Lab File ID: 01042325ECD7.D				Analyzed: 01/04/23 17:49	
1-Bromo-2-Nitrobenzene	529636	3.514	247920	3.512	214	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	835999	14.262	626149	14.276	134	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	348662	3.95	167179	3.95	209	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	527646	15.009	313761	15.016	168	50 - 200	-0.007	+/-0.50	
Matrix Spike (BKL0492-MS1)		(Solid)		Lab File ID: 01042326ECD7.D				Analyzed: 01/04/23 18:10	
1-Bromo-2-Nitrobenzene	499556	3.514	247920	3.512	201	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	651108	14.261	626149	14.276	104	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	321332	3.951	167179	3.95	192	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	450931	15.007	313761	15.016	144	50 - 200	-0.009	+/-0.50	
Matrix Spike Dup (BKL0492-MSD1)		(Solid)		Lab File ID: 01042327ECD7.D				Analyzed: 01/04/23 18:31	
1-Bromo-2-Nitrobenzene	503106	3.513	247920	3.512	203	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	641713	14.261	626149	14.276	102	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	330977	3.949	167179	3.95	198	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	449202	15.008	313761	15.016	143	50 - 200	-0.008	+/-0.50	
LDW22-SC779H (22L0246-23)		(Solid)		Lab File ID: 01042330ECD7.D				Analyzed: 01/04/23 19:34	
1-Bromo-2-Nitrobenzene	489168	3.512	247920	3.512	197	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	496475	14.26	626149	14.276	79	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	323011	3.949	167179	3.95	193	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	372812	15.007	313761	15.016	119	50 - 200	-0.009	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0094
SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC779I (22L0246-24)		(Solid)	Lab File ID: 01042331ECD7.D				Analyzed: 01/04/23 19:56		
1-Bromo-2-Nitrobenzene	460834	3.512	247920	3.512	186	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	528296	14.26	626149	14.276	84	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	310184	3.95	167179	3.95	186	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	395102	15.007	313761	15.016	126	50 - 200	-0.009	+/-0.50	
LDW22-SC779J (22L0246-25)		(Solid)	Lab File ID: 01042332ECD7.D				Analyzed: 01/04/23 20:17		
1-Bromo-2-Nitrobenzene	474227	3.511	247920	3.512	191	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	601970	14.261	626149	14.276	96	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	315008	3.948	167179	3.95	188	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	432854	15.008	313761	15.016	138	50 - 200	-0.008	+/-0.50	
LDW22-SC777A (22L0246-26)		(Solid)	Lab File ID: 01042333ECD7.D				Analyzed: 01/04/23 20:38		
1-Bromo-2-Nitrobenzene	482513	3.514	247920	3.512	195	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	557251	14.26	626149	14.276	89	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	314434	3.951	167179	3.95	188	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	416041	15.005	313761	15.016	133	50 - 200	-0.011	+/-0.50	
LDW22-SC777B (22L0246-27)		(Solid)	Lab File ID: 01042334ECD7.D				Analyzed: 01/04/23 20:59		
1-Bromo-2-Nitrobenzene	440395	3.511	247920	3.512	178	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	441951	14.259	626149	14.276	71	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	289859	3.948	167179	3.95	173	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	356307	15.006	313761	15.016	114	50 - 200	-0.010	+/-0.50	
LDW22-SC777E (22L0246-30)		(Solid)	Lab File ID: 01042337ECD7.D				Analyzed: 01/04/23 22:02		
1-Bromo-2-Nitrobenzene	450298	3.511	247920	3.512	182	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	517259	14.26	626149	14.276	83	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297355	3.948	167179	3.95	178	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	386982	15.005	313761	15.016	123	50 - 200	-0.011	+/-0.50	
LDW22-SC777F (22L0246-31)		(Solid)	Lab File ID: 01042340ECD7.D				Analyzed: 01/04/23 23:06		
1-Bromo-2-Nitrobenzene	473789	3.512	247920	3.512	191	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	578869	14.26	626149	14.276	92	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	309311	3.95	167179	3.95	185	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	425404	15.006	313761	15.016	136	50 - 200	-0.010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0094
SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC777G (22L0246-32)		(Solid)	Lab File ID: 01042341ECD7.D				Analyzed: 01/04/23 23:27		
1-Bromo-2-Nitrobenzene	415214	3.513	247920	3.512	167	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	429740	14.257	626149	14.276	69	50 - 200	-0.019	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	285086	3.95	167179	3.95	171	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	342522	15.006	313761	15.016	109	50 - 200	-0.010	+/-0.50	
LDW22-SC777H (22L0246-33)		(Solid)	Lab File ID: 01042342ECD7.D				Analyzed: 01/04/23 23:48		
1-Bromo-2-Nitrobenzene	507784	3.514	247920	3.512	205	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	558821	14.26	626149	14.276	89	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	349213	3.95	167179	3.95	209	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	429215	15.006	313761	15.016	137	50 - 200	-0.010	+/-0.50	
LDW22-SC759E (22L0246-37)		(Solid)	Lab File ID: 01042346ECD7.D				Analyzed: 01/05/23 01:12		
1-Bromo-2-Nitrobenzene	488702	3.514	247920	3.512	197	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	576366	14.261	626149	14.276	92	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	324244	3.951	167179	3.95	194	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	410798	15.007	313761	15.016	131	50 - 200	-0.009	+/-0.50	
LDW22-SC759F (22L0246-38)		(Solid)	Lab File ID: 01042347ECD7.D				Analyzed: 01/05/23 01:33		
1-Bromo-2-Nitrobenzene	477755	3.512	247920	3.512	193	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	661806	14.262	626149	14.276	106	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	327207	3.949	167179	3.95	196	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	449861	15.007	313761	15.016	143	50 - 200	-0.009	+/-0.50	
LDW22-SC759G (22L0246-39)		(Solid)	Lab File ID: 01042348ECD7.D				Analyzed: 01/05/23 01:55		
1-Bromo-2-Nitrobenzene	470724	3.512	247920	3.512	190	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	577833	14.26	626149	14.276	92	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	319364	3.95	167179	3.95	191	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	428965	15.006	313761	15.016	137	50 - 200	-0.010	+/-0.50	
LDW22-SC759H (22L0246-40)		(Solid)	Lab File ID: 01042349ECD7.D				Analyzed: 01/05/23 02:16		
1-Bromo-2-Nitrobenzene	462270	3.512	247920	3.512	186	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	563328	14.259	626149	14.276	90	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313332	3.949	167179	3.95	187	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	414069	15.006	313761	15.016	132	50 - 200	-0.010	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0094
SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Blank (BKL0490-BLK1)		(Solid)	Lab File ID: 01042359ECD7.D				Analyzed: 01/05/23 05:47		
1-Bromo-2-Nitrobenzene	520322	3.513	247920	3.512	210	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	1124373	14.274	626149	14.276	180	50 - 200	-0.002	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	355825	3.95	167179	3.95	213	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	602728	15.014	313761	15.016	192	50 - 200	-0.002	+/-0.50	
LCS (BKL0490-BS1)		(Solid)	Lab File ID: 01042360ECD7.D				Analyzed: 01/05/23 06:08		
1-Bromo-2-Nitrobenzene	537392	3.514	247920	3.512	217	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl	1232792	14.273	626149	14.276	197	50 - 200	-0.003	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	367510	3.951	167179	3.95	220	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl [2C]	619205	15.014	313761	15.016	197	50 - 200	-0.002	+/-0.50	
LCS Dup (BKL0490-BSD1)		(Solid)	Lab File ID: 01042361ECD7.D				Analyzed: 01/05/23 06:29		
1-Bromo-2-Nitrobenzene	544723	3.513	247920	3.512	220	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	1268245	14.273	626149	14.276	203	50 - 200	-0.003	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	369191	3.95	167179	3.95	221	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl [2C]	638102	15.013	313761	15.016	203	50 - 200	-0.003	+/-0.50	*
Reference (BKL0490-SRM1)		(Solid)	Lab File ID: 01042362ECD7.D				Analyzed: 01/05/23 06:50		
1-Bromo-2-Nitrobenzene	556863	3.515	247920	3.512	225	50 - 200	0.003	+/-0.50	*
Hexabromobiphenyl	819389	14.262	626149	14.276	131	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	359516	3.952	167179	3.95	215	50 - 200	0.002	+/-0.50	*
Hexabromobiphenyl [2C]	523583	15.009	313761	15.016	167	50 - 200	-0.007	+/-0.50	
Matrix Spike (BKL0490-MS1)		(Solid)	Lab File ID: 01042363ECD7.D				Analyzed: 01/05/23 07:11		
1-Bromo-2-Nitrobenzene	562323	3.512	247920	3.512	227	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	494830	14.259	626149	14.276	79	50 - 200	-0.017	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	323543	3.95	167179	3.95	194	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	379513	15.005	313761	15.016	121	50 - 200	-0.011	+/-0.50	
Matrix Spike Dup (BKL0490-MSD1)		(Solid)	Lab File ID: 01042364ECD7.D				Analyzed: 01/05/23 07:32		
1-Bromo-2-Nitrobenzene	547604	3.513	247920	3.512	221	50 - 200	0.001	+/-0.50	*
Hexabromobiphenyl	430491	14.258	626149	14.276	69	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320384	3.95	167179	3.95	192	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	340927	15.005	313761	15.016	109	50 - 200	-0.011	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SLA0094
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT810B (22L0246-08)		(Solid)		Lab File ID: 01042372ECD7.D				Analyzed: 01/05/23 10:21	
1-Bromo-2-Nitrobenzene	507150	3.512	247920	3.512	205	50 - 200	0.000	+/-0.50	*
Hexabromobiphenyl	416650	14.257	626149	14.276	67	50 - 200	-0.019	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	305082	3.949	167179	3.95	182	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	339752	15.005	313761	15.016	108	50 - 200	-0.011	+/-0.50	
LDW22-IT810B-FD (22L0246-10)		(Solid)		Lab File ID: 01042374ECD7.D				Analyzed: 01/05/23 11:04	
1-Bromo-2-Nitrobenzene	480426	3.513	247920	3.512	194	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	419446	14.258	626149	14.276	67	50 - 200	-0.018	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301232	3.949	167179	3.95	180	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	337779	15.006	313761	15.016	108	50 - 200	-0.010	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC778E (22L0246-05)		(Solid)	Lab File ID: 01042369ECD7.D				Analyzed: 01/05/23 09:18		
1-Bromo-2-Nitrobenzene	544311	3.513	323732	3.513	168	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	397966	14.259	595785	14.273	67	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	297140	3.951	220879	3.951	135	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	321024	15.006	352718	15.014	91	50 - 200	-0.008	+/-0.50	
LDW22-IT810D (22L0246-11)		(Solid)	Lab File ID: 01052321ECD7.D				Analyzed: 01/05/23 19:25		
1-Bromo-2-Nitrobenzene	553837	3.515	323732	3.513	171	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	433239	14.258	595785	14.273	73	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	304905	3.952	220879	3.951	138	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	344296	15.007	352718	15.014	98	50 - 200	-0.007	+/-0.50	
LDW22-IT810E (22L0246-12)		(Solid)	Lab File ID: 01052322ECD7.D				Analyzed: 01/05/23 19:46		
1-Bromo-2-Nitrobenzene	491486	3.513	323732	3.513	152	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	403747	14.258	595785	14.273	68	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	284892	3.95	220879	3.951	129	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	329576	15.006	352718	15.014	93	50 - 200	-0.008	+/-0.50	
LDW22-IT810F (22L0246-13)		(Solid)	Lab File ID: 01052323ECD7.D				Analyzed: 01/05/23 20:07		
1-Bromo-2-Nitrobenzene	520303	3.513	323732	3.513	161	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	392321	14.258	595785	14.273	66	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	293813	3.95	220879	3.951	133	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	326273	15.006	352718	15.014	93	50 - 200	-0.008	+/-0.50	
LDW22-IT810G (22L0246-14)		(Solid)	Lab File ID: 01052324ECD7.D				Analyzed: 01/05/23 20:28		
1-Bromo-2-Nitrobenzene	470248	3.514	323732	3.513	145	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	428095	14.259	595785	14.273	72	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	293966	3.951	220879	3.951	133	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	338977	15.006	352718	15.014	96	50 - 200	-0.008	+/-0.50	
LDW22-SC779A (22L0246-15)		(Solid)	Lab File ID: 01052325ECD7.D				Analyzed: 01/05/23 20:49		
1-Bromo-2-Nitrobenzene	497192	3.515	323732	3.513	154	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	467954	14.258	595785	14.273	79	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	312848	3.952	220879	3.951	142	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	353749	15.006	352718	15.014	100	50 - 200	-0.008	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0096
SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC779B (22L0246-16)		(Solid)	Lab File ID: 01052326ECD7.D				Analyzed: 01/05/23 21:10		
1-Bromo-2-Nitrobenzene	479993	3.516	323732	3.513	148	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	431651	14.257	595785	14.273	72	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	298553	3.953	220879	3.951	135	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	332548	15.005	352718	15.014	94	50 - 200	-0.009	+/-0.50	
LDW22-SC779C (22L0246-17)		(Solid)	Lab File ID: 01052327ECD7.D				Analyzed: 01/05/23 21:31		
1-Bromo-2-Nitrobenzene	458057	3.515	323732	3.513	141	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	425291	14.257	595785	14.273	71	50 - 200	-0.016	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	301136	3.951	220879	3.951	136	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	330168	15.005	352718	15.014	94	50 - 200	-0.009	+/-0.50	
LDW22-SC779F (22L0246-21)		(Solid)	Lab File ID: 01052363ECD7.D				Analyzed: 01/06/23 10:10		
1-Bromo-2-Nitrobenzene	451905	3.514	323732	3.513	140	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	604551	14.262	595785	14.273	101	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	304767	3.951	220879	3.951	138	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	399286	15.009	352718	15.014	113	50 - 200	-0.005	+/-0.50	
LDW22-SC779G (22L0246-22)		(Solid)	Lab File ID: 01052364ECD7.D				Analyzed: 01/06/23 10:31		
1-Bromo-2-Nitrobenzene	447873	3.516	323732	3.513	138	50 - 200	0.003	+/-0.50	
Hexabromobiphenyl	625691	14.262	595785	14.273	105	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	295100	3.953	220879	3.951	134	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	420113	15.008	352718	15.014	119	50 - 200	-0.006	+/-0.50	
LDW22-SC778F (22L0246-06)		(Solid)	Lab File ID: 01052365ECD7.D				Analyzed: 01/06/23 10:52		
1-Bromo-2-Nitrobenzene	470439	3.515	323732	3.513	145	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl	586630	14.261	595785	14.273	98	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	308332	3.952	220879	3.951	140	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl [2C]	414288	15.008	352718	15.014	117	50 - 200	-0.006	+/-0.50	
LDW22-IT810A (22L0246-07)		(Solid)	Lab File ID: 01052366ECD7.D				Analyzed: 01/06/23 11:13		
1-Bromo-2-Nitrobenzene	462392	3.513	323732	3.513	143	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	541050	14.261	595785	14.273	91	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	300387	3.949	220879	3.951	136	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	385840	15.006	352718	15.014	109	50 - 200	-0.008	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0096	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-IT810C (22L0246-09)		(Solid)		Lab File ID: 01052368ECD7.D				Analyzed: 01/06/23 11:55	
1-Bromo-2-Nitrobenzene	437703	3.513	323732	3.513	135	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	394323	14.258	595785	14.273	66	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	287202	3.95	220879	3.951	130	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	310650	15.004	352718	15.014	88	50 - 200	-0.010	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0129	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
Initial Cal Check (SLA0129-ICV1)		(Solid)	Lab File ID: 01092302ECD7.D				Analyzed: 01/09/23 09:24		
1-Bromo-2-Nitrobenzene	479061	3.514	479061	3.514	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	1221936	14.276	1221936	14.276	100	50 - 200	0.000	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	327437	3.95	327437	3.95	100	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	623355	15.015	623355	15.015	100	50 - 200	0.000	+/-0.50	
Initial Cal Check (SLA0129-ICV2)		(Solid)	Lab File ID: 01092303ECD7.D				Analyzed: 01/09/23 09:46		
1-Bromo-2-Nitrobenzene	474601	3.515	479061	3.514	99	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	1279653	14.275	1221936	14.276	105	50 - 200	-0.001	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	329167	3.952	327437	3.95	101	50 - 200	0.002	+/-0.50	
Hexabromobiphenyl [2C]	629076	15.014	623355	15.015	101	50 - 200	-0.001	+/-0.50	
LDW22-SC778B (22L0246-01)		(Solid)	Lab File ID: 01092336ECD7.D				Analyzed: 01/09/23 21:22		
1-Bromo-2-Nitrobenzene	455185	3.516	474601	3.515	96	50 - 200	0.001	+/-0.50	
Hexabromobiphenyl	754207	14.262	1279653	14.275	59	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	310418	3.952	329167	3.952	94	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	430488	15.007	629076	15.014	68	50 - 200	-0.007	+/-0.50	
LDW22-SC779D (22L0246-18)		(Solid)	Lab File ID: 01092337ECD7.D				Analyzed: 01/09/23 21:43		
1-Bromo-2-Nitrobenzene	459138	3.513	474601	3.515	97	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	591251	14.261	1279653	14.275	46	50 - 200	-0.014	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	313300	3.949	329167	3.952	95	50 - 200	-0.003	+/-0.50	
Hexabromobiphenyl [2C]	412781	15.006	629076	15.014	66	50 - 200	-0.008	+/-0.50	
LDW22-SC779D-FD (22L0246-19)		(Solid)	Lab File ID: 01092338ECD7.D				Analyzed: 01/09/23 22:04		
1-Bromo-2-Nitrobenzene	460013	3.514	474601	3.515	97	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	600141	14.259	1279653	14.275	47	50 - 200	-0.016	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	311906	3.951	329167	3.952	95	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	414176	15.006	629076	15.014	66	50 - 200	-0.008	+/-0.50	
LDW22-SC779E (22L0246-20)		(Solid)	Lab File ID: 01092339ECD7.D				Analyzed: 01/09/23 22:25		
1-Bromo-2-Nitrobenzene	459191	3.514	474601	3.515	97	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	662529	14.262	1279653	14.275	52	50 - 200	-0.013	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	313006	3.951	329167	3.952	95	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	442929	15.006	629076	15.014	70	50 - 200	-0.008	+/-0.50	

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SLA0129
SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: ECD7
Calibration: FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC777C (22L0246-28)		(Solid)	Lab File ID: 01092342ECD7.D				Analyzed: 01/09/23 23:28		
1-Bromo-2-Nitrobenzene	464121	3.515	474601	3.515	98	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	771033	14.264	1279653	14.275	60	50 - 200	-0.011	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	322806	3.952	329167	3.952	98	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	485858	15.008	629076	15.014	77	50 - 200	-0.006	+/-0.50	
LDW22-SC777D (22L0246-29)		(Solid)	Lab File ID: 01092343ECD7.D				Analyzed: 01/09/23 23:49		
1-Bromo-2-Nitrobenzene	460205	3.513	474601	3.515	97	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	732729	14.263	1279653	14.275	57	50 - 200	-0.012	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	311085	3.95	329167	3.952	95	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	473871	15.006	629076	15.014	75	50 - 200	-0.008	+/-0.50	
LDW22-SC759C (22L0246-35)		(Solid)	Lab File ID: 01092346ECD7.D				Analyzed: 01/10/23 00:52		
1-Bromo-2-Nitrobenzene	459613	3.514	474601	3.515	97	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	639972	14.26	1279653	14.275	50	50 - 200	-0.015	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	310776	3.951	329167	3.952	94	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	436508	15.006	629076	15.014	69	50 - 200	-0.008	+/-0.50	
LDW22-SC759D (22L0246-36)		(Solid)	Lab File ID: 01092347ECD7.D				Analyzed: 01/10/23 01:13		
1-Bromo-2-Nitrobenzene	466772	3.513	474601	3.515	98	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	690854	14.261	1279653	14.275	54	50 - 200	-0.014	+/-0.50	
1-Bromo-2-Nitrobenzene [2C]	320227	3.95	329167	3.952	97	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	459838	15.005	629076	15.014	73	50 - 200	-0.009	+/-0.50	
LDW22-SC777I (22L0246-34)		(Solid)	Lab File ID: 01092348ECD7.D				Analyzed: 01/10/23 01:34		
1-Bromo-2-Nitrobenzene	437365	3.515	474601	3.515	92	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl	554034	14.259	1279653	14.275	43	50 - 200	-0.016	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	294830	3.952	329167	3.952	90	50 - 200	0.000	+/-0.50	
Hexabromobiphenyl [2C]	398221	15.005	629076	15.014	63	50 - 200	-0.009	+/-0.50	
LDW22-SC778D (22L0246-04)		(Solid)	Lab File ID: 01092350ECD7.D				Analyzed: 01/10/23 02:17		
1-Bromo-2-Nitrobenzene	466066	3.513	474601	3.515	98	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl	577278	14.259	1279653	14.275	45	50 - 200	-0.016	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	298049	3.95	329167	3.952	91	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	414077	15.005	629076	15.014	66	50 - 200	-0.009	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

INTERNAL STANDARD AREA AND RT SUMMARY

EPA 8082A

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SLA0129	Instrument:	ECD7
		Calibration:	FL00010

Internal Standard	Response	RT	Reference Response	Reference RT	Area %	Area % Limits	RT Diff	RT Diff Limit	Q
LDW22-SC778C (22L0246-02)		(Solid)		Lab File ID: 01092351ECD7.D				Analyzed: 01/10/23 02:38	
1-Bromo-2-Nitrobenzene	458649	3.514	474601	3.515	97	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	602788	14.26	1279653	14.275	47	50 - 200	-0.015	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	292326	3.95	329167	3.952	89	50 - 200	-0.002	+/-0.50	
Hexabromobiphenyl [2C]	424764	15.005	629076	15.014	68	50 - 200	-0.009	+/-0.50	
LDW22-SC778C-FD (22L0246-03)		(Solid)		Lab File ID: 01092352ECD7.D				Analyzed: 01/10/23 02:59	
1-Bromo-2-Nitrobenzene	470552	3.514	474601	3.515	99	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl	598472	14.259	1279653	14.275	47	50 - 200	-0.016	+/-0.50	*
1-Bromo-2-Nitrobenzene [2C]	297703	3.951	329167	3.952	90	50 - 200	-0.001	+/-0.50	
Hexabromobiphenyl [2C]	423977	15.006	629076	15.014	67	50 - 200	-0.008	+/-0.50	

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-44	File ID:	01032342ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 22:41
Solids:	48.28	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1260	1	11.041	11.0625	0.0215	3849	6.0	12.5
	* 2	11.653	11.66983	0.0168	6413.5	6.8	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-45	File ID:	01032343ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 23:02
Solids:	79.67	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.415	8.427	0.012	3553	2.7	40.
	2	8.315	8.326	0.011	1336.25	1.8	
Aroclor 1254	1	9.303	9.318	0.015	4113.4	2.4	18.9
	* 2	9.454	9.466	0.012	3890	2.9	
Aroclor 1260	1	11.045	11.0625	0.0175	1303.6	1.0	40.
	* 2	11.532	11.66983	0.138	7878.75	1.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-46	File ID:	01032344ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/03/23 23:23
Solids:	81.98	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0079		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.306	9.318	0.012	5506.4	3.1	20.3
	* 2	9.456	9.466	0.01	5244	3.8	
Aroclor 1260	1	11.05	11.0625	0.0125	1923.8	1.0	40.
	* 2	11.659	11.66983	0.0108	2191.75	1.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-08	File ID:	01042372ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 10:21
Solids:	63.53	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.296	9.318	0.022	120490.8	64.6	30.9
	* 2	9.447	9.466	0.019	107434.2	88.2	
Aroclor 1260	1	11.042	11.0625	0.0205	124444.4	132	4.7
	* 2	11.651	11.66983	0.0188	154506	126	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-10	File ID:	01042374ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 11:04
Solids:	65.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.296	9.318	0.022	136140.6	67.4	34.8
	* 2	9.446	9.466	0.02	116533.2	95.8	
Aroclor 1260	1	11.042	11.0625	0.0205	92683.4	97.4	7.5
	* 2	11.651	11.66983	0.0188	123076.8	105	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-23	File ID:	01042330ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 19:34
Solids:	64.12	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.409	8.427	0.018	132775.3	91.2	15.9
	* 2	8.311	8.326	0.015	79276	107	
Aroclor 1254	1	9.297	9.318	0.021	118147.2	60.9	10.3
	* 2	9.448	9.466	0.018	90775.4	67.5	
Aroclor 1260	1	11.043	11.0625	0.0195	34312.8	30.0	.7
	* 2	11.653	11.66983	0.0168	39877.75	29.8	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-24	File ID:	01042331ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 19:56
Solids:	61.48	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.3	9.318	0.018	4289.4	ND	N/A
	* 2	9.45	9.466	0.016	7531.6	4.2	
Aroclor 1260	1	11.042	11.0625	0.0205	15521.4	13.7	14.9
	* 2	11.653	11.66983	0.0168	16782.25	11.8	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-26	File ID:	01042333ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 20:38
Solids:	69.90	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.409	8.427	0.018	10410.25	7.5	7.7
	* 2	8.312	8.326	0.014	6111	8.1	
Aroclor 1254	1	9.295	9.318	0.023	13501.8	7.9	19.4
	* 2	9.448	9.466	0.018	14750.8	9.6	
Aroclor 1260	1	11.043	11.0625	0.0195	10024.8	7.9	1.3
	* 2	11.653	11.66983	0.0168	11365	7.8	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-27	File ID:	01042334ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 20:59
Solids:	61.61	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.408	8.427	0.019	91183.25	70.5	15.8
	* 2	8.31	8.326	0.016	51677.25	82.6	
Aroclor 1254	1	9.296	9.318	0.022	122030.2	65.8	32.8
	* 2	9.447	9.466	0.019	106175.4	91.6	
Aroclor 1260	1	11.042	11.0625	0.0205	72568	76.2	17.4
	* 2	11.651	11.66983	0.0188	81105.25	64.0	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-30	File ID:	01042337ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 22:02
Solids:	68.00	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.408	8.427	0.019	58564.75	44.4	4.1
	2	8.31	8.326	0.016	30230.25	42.6	
Aroclor 1254	1	9.297	9.318	0.021	95452.8	53.2	9.1
	* 2	9.448	9.466	0.018	70782.6	58.3	
Aroclor 1260	1	11.042	11.0625	0.0205	24666.8	20.7	8.6
	* 2	11.652	11.66983	0.0178	26273.5	19.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-31	File ID:	01042340ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:06
Solids:	70.85	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.409	8.427	0.018	57890.25	41.2	17.1
	2	8.311	8.326	0.015	30586.5	34.7	
Aroclor 1254	1	9.298	9.318	0.02	105433	54.7	11.1
	* 2	9.449	9.466	0.017	77527	61.1	
Aroclor 1260	1	11.044	11.0625	0.0185	27530.4	20.4	3.5
	* 2	11.653	11.66983	0.0168	29765	19.7	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-32	File ID:	01042341ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:27
Solids:	58.62	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.411	8.427	0.016	21898.5	7.3	7.9
	* 2	8.309	8.326	0.017	9207.5	7.9	
Aroclor 1254	1	9.298	9.318	0.02	34870	24.7	52.5
	* 2	9.447	9.466	0.019	70608.8	42.3	
Aroclor 1260	1	11.043	11.0625	0.0195	192661.8	197	10.1
	* 2	11.651	11.66983	0.0188	222335	178	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-33	File ID:	01042342ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/04/23 23:48
Solids:	64.30	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.299	9.318	0.019	15167.4	5.0	71.
	* 2	9.449	9.466	0.017	23100	10.5	
Aroclor 1260	1	11.042	11.0625	0.0205	69188	56.9	13.1
	* 2	11.652	11.66983	0.0178	78005	49.9	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-37	File ID:	01042346ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/05/23 01:12
Solids:	74.50	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	20302	12.2	58.1
	* 2	8.312	8.326	0.014	13534.75	22.2	
Aroclor 1254	1	9.301	9.318	0.017	23795.4	10.4	32.3
	* 2	9.451	9.466	0.015	18909.8	14.4	
Aroclor 1260	1	11.045	11.0625	0.0175	17293.2	13.8	14.
	* 2	11.653	11.66983	0.0168	16865	12.0	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-41	File ID:	01042304ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 10:26
Solids:	61.04	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.414	8.427	0.013	22359.25	55.5	6.1
	* 2	8.315	8.326	0.011	8609	59.0	
Aroclor 1254	1	9.303	9.318	0.015	41937	101	7.6
	* 2	9.452	9.466	0.014	35059	109	
Aroclor 1260	1	11.047	11.0625	0.0155	82323.8	271	5.3
	* 2	11.656	11.66983	0.0138	82129.25	257	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-42	File ID:	01042305ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 10:47
Solids:	54.30	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.411	8.427	0.016	122293.3	966	23.5
	2	8.312	8.326	0.014	67344	763	
Aroclor 1254	1	9.298	9.318	0.02	190310.8	1210	15.3
	* 2	9.45	9.466	0.016	168788.8	1410	
Aroclor 1260	1	11.044	11.0625	0.0185	50898.2	379	23.7
	* 2	11.655	11.66983	0.0148	64565.25	481	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-43	File ID:	01042306ECD7.D
Sampled:	12/09/22 11:44	Prepared:	12/22/22 14:08	Analyzed:	01/04/23 11:08
Solids:	61.33	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0571	Sequence:	SLA0094		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.3	9.318	0.018	26042.6	51.3	15.3
	* 2	9.451	9.466	0.015	25880	59.8	
Aroclor 1260	1	11.044	11.0625	0.0185	59498.2	264	29.1
	* 2	11.654	11.66983	0.0158	51361.5	197	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-05	File ID:	01042369ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 09:18
Solids:	58.19	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1260	1	11.042	11.0625	0.0205	115294	132	13.8
	* 2	11.65	11.66983	0.0198	132663	115	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-06	File ID:	01052365ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 10:52
Solids:	63.34	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.303	9.318	0.015	13585.8	44.6	74.8
	* 2	9.453	9.466	0.013	20308	97.9	
Aroclor 1260	1	11.045	11.0625	0.0175	65170.8	501	11.4
	* 2	11.653	11.66983	0.0168	66624.25	447	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-07	File ID:	01052366ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 11:13
Solids:	62.46	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.298	9.318	0.02	107449.8	317	6.7
	* 2	9.449	9.466	0.017	83140.4	339	
Aroclor 1260	1	11.043	11.0625	0.0195	26723.6	103	18.5
	* 2	11.654	11.66983	0.0158	34064.5	124	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-09	File ID:	01052368ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/06/23 11:55
Solids:	59.23	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.298	9.318	0.02	45726.6	27.9	38.7
	* 2	9.448	9.466	0.018	61265.2	41.3	
Aroclor 1260	1	11.043	11.0625	0.0195	145026.6	170	15.9
	* 2	11.652	11.66983	0.0178	156217	145	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-11	File ID:	01052321ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 19:25
Solids:	59.94	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.412	8.427	0.015	14151.25	8.9	17.4
	* 2	8.311	8.326	0.015	7435.5	10.6	
Aroclor 1254	1	9.297	9.318	0.021	25263	10.3	31.8
	* 2	9.447	9.466	0.019	20103.8	14.2	
Aroclor 1260	1	11.041	11.0625	0.0215	29042.2	31.9	11.6
	* 2	11.651	11.66983	0.0188	34014.25	28.4	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-12	File ID:	01052322ECD7.D
Sampled:	12/09/22 08:40	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 19:46
Solids:	54.55	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1254	1	9.297	9.318	0.021	7741	4.2	53.9
	* 2	9.448	9.466	0.018	10280	7.3	
Aroclor 1260	1	11.041	11.0625	0.0215	20510.2	25.0	11.9
	* 2	11.652	11.66983	0.0178	24879.5	22.2	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-15	File ID:	01052325ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 20:49
Solids:	57.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	30109.25	20.9	6.9
	2	8.312	8.326	0.014	14750.25	19.5	
Aroclor 1254	1	9.298	9.318	0.02	40152.6	22.3	30.7
	* 2	9.449	9.466	0.017	37965.8	30.4	
Aroclor 1260	1	11.043	11.0625	0.0195	30579.8	28.6	1.8
	* 2	11.653	11.66983	0.0168	35339.25	28.1	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-16	File ID:	01052326ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 21:10
Solids:	58.45	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.408	8.427	0.019	60994.75	42.4	9.4
	2	8.312	8.326	0.014	33431.25	38.6	
Aroclor 1254	1	9.297	9.318	0.021	102050.6	57.2	25.6
	* 2	9.448	9.466	0.018	89814.4	74.0	
Aroclor 1260	1	11.042	11.0625	0.0205	82308	77.8	4.9
	* 2	11.652	11.66983	0.0178	92434.5	74.1	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-17	File ID:	01052327ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/05/23 21:31
Solids:	56.26	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	95019.75	73.1	12.7
	2	8.312	8.326	0.014	52143.25	64.4	
Aroclor 1254	1	9.297	9.318	0.021	130851.6	82.2	28.
	* 2	9.447	9.466	0.019	126961	109	
Aroclor 1260	1	11.043	11.0625	0.0195	79718.8	82.3	3.5
	* 2	11.652	11.66983	0.0178	92458	79.5	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-21	File ID:	01052363ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/06/23 10:10
Solids:	60.43	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.414	8.427	0.013	101697.8	757	3.1
	2	8.315	8.326	0.011	51252.5	734	
Aroclor 1254	* 1	9.302	9.318	0.016	79821	489	3.3
	2	9.453	9.466	0.013	60315	473	
Aroclor 1260	1	11.047	11.0625	0.0155	18789.8	132	3.
	* 2	11.657	11.66983	0.0128	19517.25	136	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-22	File ID:	01052364ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/22/22 11:24	Analyzed:	01/06/23 10:31
Solids:	56.98	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0096		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.414	8.427	0.013	95021	717	.3
	* 2	8.315	8.326	0.011	49054	719	
Aroclor 1254	1	9.301	9.318	0.017	79683.6	494	7.8
	* 2	9.452	9.466	0.014	64830.4	534	
Aroclor 1260	1	11.046	11.0625	0.0165	26439.4	178	.6
	* 2	11.656	11.66983	0.0138	27297.75	179	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-01	File ID:	01092336ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 21:22
Solids:	64.46	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	246074.5	15.8	39.4
	2	8.313	8.326	0.013	156934	10.6	
Aroclor 1254	* 1	9.299	9.318	0.019	248510.8	14.8	9.2
	2	9.449	9.466	0.017	175465.8	13.5	
Aroclor 1260	1	11.045	11.0625	0.0175	56385.6	4.0	11.8
	* 2	11.653	11.66983	0.0168	66386	4.5	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-02	File ID:	01092351ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:38
Solids:	65.15	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.411	8.427	0.016	199604.3	726	6.
	* 2	8.312	8.326	0.014	99344.75	771	
Aroclor 1254	1	9.299	9.318	0.019	266348	792	4.7
	* 2	9.448	9.466	0.018	199086.6	830	
Aroclor 1260	1	11.043	11.0625	0.0195	94621.2	341	3.5
	* 2	11.652	11.66983	0.0178	109356.8	353	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-03	File ID:	01092352ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:59
Solids:	64.55	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.41	8.427	0.017	214981	761	8.9
	2	8.312	8.326	0.014	109139	832	
Aroclor 1254	1	9.298	9.318	0.02	280074.8	812	5.4
	* 2	9.449	9.466	0.017	209707.8	857	
Aroclor 1260	1	11.044	11.0625	0.0185	95639.6	341	3.5
	* 2	11.653	11.66983	0.0168	109042.8	353	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-04	File ID:	01092350ECD7.D
Sampled:	12/09/22 07:56	Prepared:	12/20/22 15:36	Analyzed:	01/10/23 02:17
Solids:	57.97	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1260	1	11.043	11.0625	0.0195	55940.6	216	9.2
	* 2	11.652	11.66983	0.0178	59768.75	197	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-18	File ID:	01092337ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 21:43
Solids:	57.24	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	160615.3	585	17.5
	2	8.312	8.326	0.014	69255	491	
Aroclor 1254	* 1	9.299	9.318	0.019	192180.6	573	7.8
	2	9.449	9.466	0.017	137669.2	530	
Aroclor 1260	1	11.045	11.0625	0.0175	45615.4	162	6.6
	* 2	11.653	11.66983	0.0168	51797.25	173	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-19	File ID:	01092338ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 22:04
Solids:	57.21	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	155782.3	567	17.4
	2	8.312	8.326	0.014	67050	476	
Aroclor 1254	1	9.3	9.318	0.018	183676.6	549	6.
	* 2	9.449	9.466	0.017	133109	517	
Aroclor 1260	1	11.045	11.0625	0.0175	51724.6	181	4.9
	* 2	11.653	11.66983	0.0168	57418.5	190	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-20	File ID:	01092339ECD7.D
Sampled:	12/09/22 08:09	Prepared:	12/20/22 15:36	Analyzed:	01/09/23 22:25
Solids:	59.65	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0490	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	144375	1050	7.9
	2	8.314	8.326	0.012	67867	970	
Aroclor 1254	* 1	9.3	9.318	0.018	144213.6	866	14.4
	2	9.451	9.466	0.015	97670.6	750	
Aroclor 1260	1	11.046	11.0625	0.0165	32881.8	213	1.4
	* 2	11.654	11.66983	0.0158	34355.5	216	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-28	File ID:	01092342ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/09/23 23:28
Solids:	73.07	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	1	8.414	8.427	0.013	120064	428	4.1
	* 2	8.314	8.326	0.012	63344.5	446	
Aroclor 1254	* 1	9.303	9.318	0.015	121933.4	359	9.
	2	9.452	9.466	0.014	86881.6	328	
Aroclor 1260	* 1	11.048	11.0625	0.0145	47454.6	134	14.4
	2	11.656	11.66983	0.0138	42455.5	116	

* Column used for quantitation

Analytical Resources, LLC
Analytical Chemists and Consultants

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-29	File ID:	01092343ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/09/23 23:49
Solids:	73.22	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	90087.25	329	3.4
	2	8.314	8.326	0.012	44487.5	318	
Aroclor 1254	* 1	9.301	9.318	0.017	87063	261	12.6
	2	9.451	9.466	0.015	58739.8	230	
Aroclor 1260	1	11.046	11.0625	0.0165	19345	54.8	12.3
	* 2	11.655	11.66983	0.0148	20659.5	62.0	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-34	File ID:	01092348ECD7.D
Sampled:	12/09/22 08:52	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 01:34
Solids:	62.97	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1260	* 1	11.044	11.0625	0.0185	119684.8	486	9.9
	2	11.652	11.66983	0.0178	126335.3	440	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-35	File ID:	01092346ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 00:52
Solids:	63.10	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.412	8.427	0.015	129741.5	475	34.9
	2	8.312	8.326	0.014	47266.25	334	
Aroclor 1254	* 1	9.3	9.318	0.018	201612.8	602	.3
	2	9.449	9.466	0.017	151155.6	600	
Aroclor 1260	1	11.044	11.0625	0.0185	87740.8	285	1.7
	* 2	11.653	11.66983	0.0168	93822.5	290	

* Column used for quantitation

DUAL COLUMN CONFIRMATION SUMMARY

Laboratory:	Analytical Resources, LLC			SDG:	22L0246
Client:	Anchor QEA, LLC			Project:	AOC4 UR Phase 3
Matrix:	Sediment	Laboratory ID:	22L0246-36	File ID:	01092347ECD7.D
Sampled:	12/09/22 09:58	Prepared:	12/22/22 11:24	Analyzed:	01/10/23 01:13
Solids:	64.46	Preparation:	EPA 3546 (Microwave)	Instrument:	ECD7
Batch:	BKL0492	Sequence:	SLA0129		
GC Column(1):	ZB5			GC Column(2):	ZB35

COMPOUND	COL	RT	EXP RT	RT DIFF	AREA	CONC	RPD
Aroclor 1248	* 1	8.413	8.427	0.014	132676	474	21.5
	2	8.313	8.326	0.013	54916.5	382	
Aroclor 1254	* 1	9.301	9.318	0.017	188950.6	553	8.3
	2	9.45	9.466	0.016	134370.4	509	
Aroclor 1260	1	11.045	11.0625	0.0175	53248.8	163	1.2
	* 2	11.654	11.66983	0.0158	55344.25	165	

* Column used for quantitation

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC778B 22L0246-01	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/09/23 21:22	20	40	
LDW22-SC778C 22L0246-02	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/10/23 02:38	20	40	
LDW22-SC778C-FD 22L0246-03	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/10/23 02:59	20	40	
LDW22-SC778D 22L0246-04	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/10/23 02:17	20	40	
LDW22-SC778E 22L0246-05	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 09:18	16	40	
LDW22-SC778F 22L0246-06	12/09/22 07:56	12/09/22 16:40	12/20/22 15:36	11	365	01/06/23 10:52	17	40	
LDW22-IT810A 22L0246-07	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/06/23 11:13	17	40	
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 10:21	16	40	
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/06/23 11:55	17	40	
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 11:04	16	40	
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 19:25	16	40	
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 19:46	16	40	
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 20:07	16	40	
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 20:28	16	40	
LDW22-SC779A 22L0246-15	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 20:49	16	40	
LDW22-SC779B 22L0246-16	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 21:10	16	40	
LDW22-SC779C 22L0246-17	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 21:31	16	40	
LDW22-SC779D 22L0246-18	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/09/23 21:43	20	40	
LDW22-SC779D-FD 22L0246-19	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/09/23 22:04	20	40	
LDW22-SC779E 22L0246-20	12/09/22 08:09	12/09/22 16:40	12/20/22 15:36	11	365	01/09/23 22:25	20	40	
LDW22-SC779F 22L0246-21	12/09/22 08:09	12/09/22 16:40	12/22/22 11:24	13	365	01/06/23 10:10	15	40	
LDW22-SC779G 22L0246-22	12/09/22 08:09	12/09/22 16:40	12/22/22 11:24	13	365	01/06/23 10:31	15	40	

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC779H 22L0246-23	12/09/22 08:09	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 19:34	13	40	
LDW22-SC779I 22L0246-24	12/09/22 08:09	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 19:56	13	40	
LDW22-SC779J 22L0246-25	12/09/22 08:09	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 20:17	13	40	
LDW22-SC777A 22L0246-26	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 20:38	13	40	
LDW22-SC777B 22L0246-27	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 20:59	13	40	
LDW22-SC777C 22L0246-28	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/09/23 23:28	19	40	
LDW22-SC777D 22L0246-29	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/09/23 23:49	19	40	
LDW22-SC777E 22L0246-30	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 22:02	13	40	
LDW22-SC777F 22L0246-31	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 23:06	13	40	
LDW22-SC777G 22L0246-32	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 23:27	14	40	
LDW22-SC777H 22L0246-33	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 23:48	14	40	
LDW22-SC777I 22L0246-34	12/09/22 08:52	12/09/22 16:40	12/22/22 11:24	13	365	01/10/23 01:34	19	40	
LDW22-SC759C 22L0246-35	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/10/23 00:52	19	40	
LDW22-SC759D 22L0246-36	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/10/23 01:13	19	40	
LDW22-SC759E 22L0246-37	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/05/23 01:12	14	40	
LDW22-SC759F 22L0246-38	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/05/23 01:33	14	40	
LDW22-SC759G 22L0246-39	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/05/23 01:55	14	40	
LDW22-SC759H 22L0246-40	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/05/23 02:16	14	40	
LDW22-SC759B 22L0246-41	12/09/22 09:58	12/09/22 16:40	12/22/22 14:08	13	365	01/04/23 10:26	13	40	
LDW22-IT809A 22L0246-42	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/04/23 10:47	13	40	
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/04/23 11:08	13	40	
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 22:41	12	40	

HOLDING TIME SUMMARY

Analysis: EPA 8082A

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 23:02	12	40	
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 23:23	12	40	
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 23:44	12	40	
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/04/23 00:05	12	40	
Matrix Spike BKL0490-MS1	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 07:11	16	40	
Matrix Spike Dup BKL0490-MSD1	12/09/22 08:40	12/09/22 16:40	12/20/22 15:36	11	365	01/05/23 07:32	16	40	
Matrix Spike BKL0492-MS1	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 18:10	13	40	
Matrix Spike Dup BKL0492-MSD1	12/09/22 09:58	12/09/22 16:40	12/22/22 11:24	13	365	01/04/23 18:31	13	40	
Matrix Spike BKL0571-MS1	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 20:55	12	40	
Matrix Spike Dup BKL0571-MSD1	12/09/22 11:44	12/09/22 16:40	12/22/22 14:08	13	365	01/03/23 21:16	12	40	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 8082A

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: ECD7

Analyte	MDL	RL	Units
Aroclor 1016	1.6	4.0	ug/kg
Aroclor 1016 [2C]	1.6	4.0	ug/kg
Aroclor 1221	1.6	4.0	ug/kg
Aroclor 1221 [2C]	1.6	4.0	ug/kg
Aroclor 1232	1.6	4.0	ug/kg
Aroclor 1232 [2C]	1.6	4.0	ug/kg
Aroclor 1242	1.6	4.0	ug/kg
Aroclor 1242 [2C]	1.6	4.0	ug/kg
Aroclor 1248	1.6	4.0	ug/kg
Aroclor 1248 [2C]	1.6	4.0	ug/kg
Aroclor 1254	1.6	4.0	ug/kg
Aroclor 1254 [2C]	1.6	4.0	ug/kg
Aroclor 1260	0.6	4.0	ug/kg
Aroclor 1260 [2C]	0.6	4.0	ug/kg

125 Market Street
New Haven, CT 06513
USA

AccuStandard® Inc.

Tel (203)786-5290
Fax (203)786-5287
www.AccuStandard.com

CERTIFICATE OF ANALYSIS

Catalog No: S-279N
Description: Tetrachloro-m-xylene
Lot: 0052481B-1
Solvent: N/A
Hazards: *Refer to SDS for complete safety information*

Signal Word: Warning

Date Certified: Jul 28, 2005
Expiration: Jul 28, 2015
Sample Size: 100 mg
Components: 1
Storage Condition: Ambient (>5 °C)

Certified Reference Material

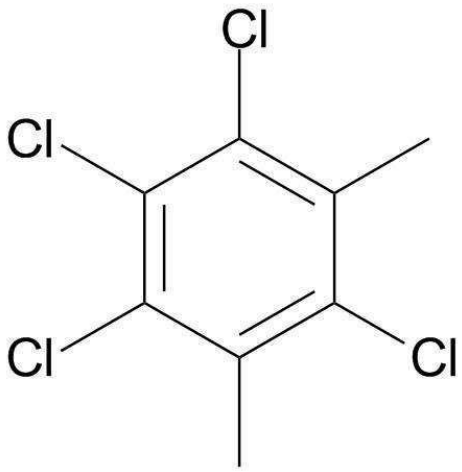
ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER AR-1463

ilac-MRA

Component	CAS #	Purity % (GC/FID)	Prepared Concentration	Certified Analyte Concentration[1]
Tetrachloro-meta-xylene	877-09-8	96.0	N/A	N/A

Identification:

Molecular formula: C8H6Cl4
Molecular weight: 243.94



C000147
tetrachlormetaxylene
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

This Certified Reference Material was verified in accordance with ISO/IEC 17025

A product with a suffix (-1A, -2B, etc. or -01, -02, etc.) on its lot number has had its expiration date extended and is identical to the same lot number without the suffix.

[1] The Uncertainty calculated for this product is ±2.4%. These values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Labels and certificates follow U.S. Conventions in reporting numerical values: A comma (,) is used to separate units of one-thousand or greater. A period (.) is used as a decimal place marker.

Metrological traceability is established through in-house validated methods.

Purity, if stated, is equal to 100% minus found impurity components. Impurity components have not been identified.

The information on this certificate may not be reproduced without the express permission of the manufacturer. See reverse side for additional information

Hazard Information: Please refer to the SDS for information regarding the hazards associated with using this material.

This product was prepared according to in-house procedures and is guaranteed to be homogeneous.

Certified By: Larry Decker, Organic QC Manager

For use in routine laboratory analysis.

AccuStandard is accredited to ISO 17034, ISO/IEC 17025 and certified to ISO 9001:2015

QR-ORG/INO-001
Rev. 5/18

EXPIRED
AccuStandard

AccuStandard
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New Haven, CT 06513
(203) 786-5290

CERTIFICATE OF PRODUCT DATA

PRODUCT: C-209N
DESCRIPTION: 2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl
LOT #: 990521LB-AC
SOLVENT: N/A

EXPIRATION: Jul 28, 2015

This product is guaranteed accurate to ±0.5% of the Certified Analyte concentration through the Expiration Date on the Label.

Component	CAS #	Purity % (GC/MS)	Prepared Concentration[1]	Certified Analyte Concentration[2]
2,2',3,3',4,4',5,5',6,6'-Decachlorobiphenyl	2051-24-3	100	N/A	N/A

C000148
decachlorbiphenyl
Expires 1/15/2020
Prepared By Joshua Rains 1/15/2014

* I1768A

Certified by: R. Cooper

1. All weights are traceable through National Institute of Standards & Technology, Test No. 822/254480
2. Certified Analyte Concentration = Purity x Prepared Concentration. The Uncertainty calculated for this product is ±4% which is the Combined Uncertainty uc(y). It represents an estimated standard deviation equal to the positive square root of the total variance of the uncertainty of components. The Expanded Uncertainty is U which is Uc(y) *K where K is the coverage factor at the 95% confidence level (K=2).
3. A product with a suffix (-1A, -2B, etc.) on its lot# has had its expiration date extended and is identical to the same lot# without the suffix.

Please note: AccuStandard follows the U.S. conventions in reporting numerical values, on both certificates and labels.

A comma (,) is used to separate units of one-thousand or greater.
A period (.) is used as a decimal place marker.

This product was manufactured in accordance to quality system requirements of ISO 9001:2000 and ISO 17025

* Recertified 2 4-6-09 JS

Analytical Standard Record

Standard ID: C000148 **Printed: 4/23/2015 11:54:44AM**

Description:	decachlorbiphenyl	Expires:	15-Jan-2020
Standard Type:	Other	Prepared:	15-Jan-2014
Solvent:	na/a	Prepared By:	Joshua Rains
Final Volume (mls):	1	Department:	Organics
Vials:	1	Last Edit:	27-Feb-2015 13:03 by JGR
Vendor:	Accustandard	Lot #:	990521lb-ac
Vendor Catalog #:			

Comments

see i1768a
SOM calibrations added 06/12/14 sdrd

Analyte	CAS Number	Concentration	Units
Decachlorobiphenyl [2C]	2051-24-3	1000000	ug/mL
Decachlorobiphenyl	2051-24-3	1000000	ug/mL
DCB 1660 [2C]	2051-24-3	1000000	ug/mL
DCB 1660	2051-24-3	1000000	ug/mL
DCB [2C]	2051-24-3	1000000	ug/mL
DCB (A) [2C]	2051-24-3	1000000	ug/mL
DCB (A)	2051-24-3	1000000	ug/mL
DCB	2051-24-3	1000000	ug/mL

Reviewed By Date

Certificate of Analysis

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101468
Description: Aroclor 1221
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14017
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1221	11104-28-2	1000	± 0.553%

I 10155

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64691018_us

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101469
Description: Aroclor 1232
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14914
Certification Date: January 31, 2020
Expiration Date: January 31, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1232	11141-16-5	1000	± 0.738%

I 010156

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Chemical Testing Laboratory
Certicate No. 2427.03

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3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101470
Description: Aroclor 1242
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL14018
Certification Date: August 20, 2019
Expiration Date: August 31, 2027

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1242	53469-21-9	1000	± 0.553%

I 010157

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

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5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

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11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101471
Description: Aroclor 1248
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL15384
Certification Date: June 19, 2020
Expiration Date: June 30, 2028

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1248	12672-29-6	1000	± 0.520%

I 010158

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

Phenova is an accredited ISO/IEC 17034 Reference Material Producer and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certicate No. 2427.03

IL64591018 us

Certificate of Analysis

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1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101472
Description: Aroclor 1254
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL13055
Certification Date: November 29, 2018
Expiration Date: November 30, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1254	11097-69-1	1000	± 0.247%

I 010159

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Reference Material Producer
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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101474	**Lot Number:**	CL11330
Description:	Aroclor 1262	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1262	37324-23-5	1000	± 0.516%

I 10160

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.:	AL0-101475	**Lot Number:**	CL11331
Description:	Aroclor 1268	**Certification Date:**	May 15, 2015
Storage:	4 °C	**Expiration Date:**	April 30, 2023
Provided As:	1 mL in 2 mL Ampoule in Isooctane	**Revision Date:**	April 2, 2018

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1268	11100-14-4	1000	± 0.516%

I 012161

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2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

J 006465

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL16555
Certification Date: June 22, 2021
Expiration Date: February 28, 2029

Andrea Gill, Certified Reference Materials Manager

J012591
AROCLOR 1016
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.310%

ACCREDITED
Reference Material Producer
Certicate No. 2427.02

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3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

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[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
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Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL16516
Certification Date: March 4, 2021
Expiration Date: February 28, 2029

J012592
AROCLOR 1260
Expires 2/28/2029
Prepared By Joshua Rains 11/26/2021

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

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5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Certificate of Analysis

Agilent

Aroclor 1016 Solution

Product Number: PP-282 **Page:** 1 of 1

Lot Number: CR-0761 **Lot Issue Date:** 28-Feb-2017 **Expiration Date:** 31-Mar-2025

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1016	012674-11-2	NT01016	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1254 Reed JR 02/05/22

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1260 Standard

Product Number: PP-362-1 **Lot Issue Date:** 20-Jan-2021

Lot Number: 0006582048 **Expiration Date:** 28-Feb-2025

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1260	011096-82-5	NT01023	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K 1255

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert
No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert
No. AT-1937

Agilent

Certificate of Analysis
ISO Guide 34

Aroclor 1242 Solution

Product Number: PP-312 **Page:** 1 of 1

Lot Number: CS-6293 **Lot Issue Date:** 04-Jan-2019 **Expiration Date:** 31-Jan-2023

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1242	053469-21-9	NT01020	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1256

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO Guide 34 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

ISO 17034

Agilent
Trusted Answers

Reference Material Certificate

Product Name:	Aroclor 1248 Standard	**Lot Number:**	0006626997
Product Number:	PP-342-1	**Lot Issue Date:**	17-Aug-2021
Storage Conditions:	Store at Room Temperature (15° to 30°C).	**Expiration Date:**	30-Sep-2025

	CERTIFIED VALUES				
Component Name	Concentration		Expanded Uncertainty	CAS#	Analyte Lot
Aroclor 1248	100.3	±	0.5 µg/mL	012672-29-6	NT01582

Matrix: isooctane (2,2,4-trimethylpentane)

K1257

Description:
This document is prepared in accordance with ISO 17034 and Guide 31. This analytical reference material standard was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed above.

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This analytical reference standard was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Safety:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this analytical reference material.

Intended Use:
This analytical reference standard is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Expiration of Certification:
The certification of this analytical reference standard is valid until the expiration date specified above, provided the material is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the material is damaged, contaminated, or otherwise modified.

Certificate of Analysis

Agilent

Aroclor 1254 Solution

Product Number: PP-352 **Page:** 1 of 1

Lot Number: CS-2321 **Lot Issue Date:** 04-May-2018 **Expiration Date:** 31-May-2026

This ISO Guide 34 Reference Material (RM) was manufactured and verified in accordance with ULTRA's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1254	011097-69-1	RM00922	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1258

ULTRA uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

John Russo
President

Monica Bourgeois
Director of QA/RA

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 9001
Registered
TUV USA, Inc.

Agilent

Certificate of Analysis

Product Name: Aroclor 1221 Standard

Product Number: PP-292-1 **Lot Issue Date:** 28-Apr-2020

Lot Number: 0006535333 **Expiration Date:** 31-May-2024

Description:

This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system, and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1221	011104-28-2	RM04278	100.2 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1259

Traceability:

The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:

This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:

This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:

Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:

Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:

The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:

If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER

ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026

www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY

ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1262 Standard

Product Number: PP-372-1 **Page:** 1 of 1

Lot Number: 0006499800 **Lot Issue Date:** 04-Nov-2019 **Expiration Date:** 30-Nov-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent Technologies ISO 9001 registered quality system. A review of the gravimetric preparation data by our ISO 17025 accredited laboratory serves to verify the concentration of each analyte. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1262	037324-23-5	RM14263	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1260

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Agilent

Certificate of Analysis
ISO 17034

Aroclor 1232 Standard

Product Number: PP-302-1 **Page:** 1 of 1

Lot Number: CF-2197A **Lot Issue Date:** 05-Jul-2016 **Expiration Date:** 31-Aug-2023

This ISO 17034 Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system, and the analyte concentrations were verified by our ISO 17025 accredited laboratory. The true value and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	True Value
Aroclor 1232	011141-16-5	NT01717	100.4 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage: Store at Room Temperature (15° to 30°C).

K1261

Agilent uses balances calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z-540-1 and ISO 9001, and calibrated Class A glassware in the manufacturing of these standards.

M Bourgeois

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO GUIDE 34 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026 registered ISO 9001 Quality Management System

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO17025 Cert No. AT-1937

Agilent

Certificate of Analysis

Product Name: Aroclor 1268 Standard

Product Number: PP-382-1 **Lot Issue Date:** 09-Feb-2021

Lot Number: 0006587800 **Expiration Date:** 31-Mar-2029

Description:
This analytical reference material (RM) was manufactured and verified in accordance with an ISO 9001 registered quality system and analyte concentrations were verified by an ISO 17025 accredited laboratory. The concentration and uncertainty value at the 95% confidence level for each analyte, determined gravimetrically, is listed below.

Analyte	CAS#	Analyte Lot	Concentration ± Uncertainty
Aroclor 1268	011100-14-4	RM00937	100.0 ± 0.5 µg/mL

Matrix: isooctane (2,2,4-trimethylpentane)

Storage Conditions: Store at Room Temperature (15° to 30°C).

K1262

Traceability:
The balances used for these measurements are calibrated with weights traceable to NIST in compliance with ANSI/NCSL Z540.3, ISO 9001, ISO 17025, and ISO 17034. Calibrated Class A glassware is used for volumetric measurements. Thermometers are calibrated against a NIST traceable thermometer in accordance with NIST Special Publication 1088.

Homogeneity:
This RM was unitized according to an in-house procedure and is guaranteed to be homogeneous. There is no minimum sub-sample size required.

Intended Use:
This RM is intended for the preparation of working reference samples for use in routine laboratory analyses, calibration of instruments, validation of analytical methods, assessments of measurement methods, and continuing calibration verification.

Instructions for Use:
Sample aliquots for analysis should be withdrawn at 20°C to 25°C immediately after opening the container and should be processed without delay for the certified values to be valid within the stated uncertainties.

Hazards:
Refer to the Safety Data Sheet on www.agilent.com for information regarding this RM.

Expiration of Certification:
The certification of this RM is valid until the expiration date specified above, provided the RM is handled and stored in accordance with the instructions given in this certificate. This certification is nullified if the RM is damaged, contaminated, or otherwise modified.

Maintenance of Certification:
If substantive changes are noted that affect the certification before the expiration of this certificate, Agilent will notify the purchaser.

Sample lot approver:

Monica Bourgeois
QMS Representative

ANAB ACCREDITED ISO 17034 REFERENCE MATERIAL PRODUCER
ISO 17034 Cert No. AR-1936

RM was produced in accordance with TUV USA Inc registered ISO 9001 Quality Management System. Cert # 56 100 18560026
Page: 1 of 1
www.agilent.com/quality/
CSD-QA-015.1

ANAB ACCREDITED ISO/IEC 17025 TESTING LABORATORY
ISO 17025 Cert No. AT-1937

Certificate of Analysis

Phenova Certified Reference Materials are sold by Phenomenex.
411 Madrid Ave., Torrance, CA 90501 USA ▪ Tel: 310-212-0555 ▪ Fax: 310-328-7768 ▪ info@phenomenex.com
Access your MSDS and digital C of A at **www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards**

Certified Reference Material

This product is included in Phenova's ISO/IEC 17025 and ISO Guide 34 Scopes of Accreditation

Catalog No.: AL0-101467
Description: Aroclor 1016
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Isooctane

Lot Number: CL12975
Certification Date: November 19, 2018
Expiration Date: October 31, 2026

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1016	12674-11-2	1000	± 0.553%

K5829

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

phenova® Certified Reference Materials

Manufactured by Phenova, Inc.

Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ilac-MRA ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL11110613_us

Certificate of Analysis

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Access your MSDS and digital C of A at www.phenomenex.com/mysupport. Re-order at www.phenomenex.com/standards

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO Guide 34[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in the calibration and calibration verification of chromatographic instrumentation performed in routine laboratory analysis.

4. Instruction: Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all certified analytes in the mixture.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Material Safety Data Sheet (MSDS) is available at www.phenomenex.com/mysupport.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

   $$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

   Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO Guide 34. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO Guide 34.

12. Period of Validity: The Certified Values and their uncertainties are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31:2000(E) – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35:2006(E) – Reference Material – General and Statistical Principles for Certification.
[3] ISO Guide 34:2009(E) – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025:2005(E) – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

ACCREDITED
Reference Material Producer
Certificate No. 2427.02

Manufactured by Phenova, Inc.
Phenova's testing and calibration results are internationally recognized through the ILAC MRA. Phenova is an accredited ISO Guide 34 Reference Material Provider and ISO/IEC 17025 accredited Chemical Testing Laboratory.

ACCREDITED
Chemical Testing Laboratory
Certificate No. 2427.03

IL111106I3_US

Certificate of Analysis

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6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

Certified Reference Material

This product is certified in accordance with Phenova's ISO 17034 accreditation and supported by Phenova's ISO/IEC 17025 chemical testing accreditation

Catalog No.: AL0-101462
Description: Aroclor 1260
Storage: 4 °C
Provided As: 1 mL in 2 mL Ampoule in Hexane

Lot Number: CL18021
Certification Date: February 14, 2022
Expiration Date: February 28, 2030

Andrea L Gill

Andrea Gill, Certified Reference Materials Manager

Component	CAS #	Certified Value µg/mL	Expanded Uncertainty
Aroclor 1260	11096-82-5	1000	± 0.553%

K005830

Certificate of Analysis

Produced by Phenova
6390 Joyce Drive STE 100, Golden, CO 80403 USA ▪ Tel: 303-940-0033 ▪ Fax: 303-940-0043 ▪ info@phenova.com
Access your Safety Data Sheets and digital Certificates at **www.phenova.com/documents.**

1. Quality Document: This Certificate of Analysis has been created in accordance with ISO Guide 31[1] and ISO Guide 35.[2]

2. Quality Standards: Phenova is accredited by A2LA to ISO 17034[3] and ISO/IEC 17025[4] as a producer of Certified Reference Materials and Reference Materials. This ensures that our manufacturing processes have been accredited to and meet strict international standards.

3. Intended Use: The product is manufactured for use in calibration, calibration verification, quantification, identification and other appropriate analytical control applications. The product is intended for routine laboratory analysis and research purposes only. Only trained personnel should handle this product.

4. Handling and Usage Notes: Store according to recommended conditions listed and avoid prolonged exposure to light. Visually inspect the solution inside the ampoule for any un-dissolved material. If particulate is visible, sonicate the unopened ampoule until material is fully dissolved. Dilute as required, use only class A glassware and diluents compatible with all analytes in the mixture. Considerations should be made related to repeated use of the opened product. Once opened, exposure to light, air, heat, objects, and additional transfer vessels may cause evaporation, degradation or contamination resulting in changes in concentration, uncertainty and stability duration. Store opened standards in a clean, tightly capped vessel under the recommended temperature. Appropriate controls, such as the use of additional verification standards should be used to confirm the opened product is fit for purpose under repeated use conditions.

5. Hazardous Situation: The product is intended for use by experienced professional personnel. A Safety Data Sheet (SDS) is available at www.phenova.com/documents.

6. Level of Homogeneity: The product has been certified to guarantee the certified values and their uncertainties at a volume of 2 µL.

7. Certified Value: Certified Value is based upon gravimetric and volumetric preparation using calibrated balances and Class A glassware.

8. Raw Materials and Purity: Phenova reference standard products are prepared from the highest quality starting materials. The purity of this material was verified using an ISO/IEC 17025 methodology.

9. Expanded Uncertainty: The expanded uncertainty (uCRM) as stated is determined in accordance with ISO/IEC Guide 98[5] and ISO Guide 35 incorporating Type A standard uncertainty at a 95% confidence level. The uncertainty contains elements of manufacturing (uM), homogeneity analysis (uH) and long-term stability testing (uLTS). The uncertainty is calculated based on the root-sum-of-squares equation times a coverage factor (k=2).

$$uCRM = k\sqrt{uM^2 + uH^2 + uLTS^2}$$

Transport conditions (short-term stability) have been tested such that there is no contribution to the uncertainty reported. The expanded uncertainty applies to the product as received.

10. Metrological Traceability: The property value (certified value and its uncertainty) are traceable through an unbroken chain of calibration to the SI base unit kg through a NIST traceable weight in accordance with ISO 17034. This is achieved through calibration of balances, verification of weights, use of national methodology for glassware calibration and product homogeneity and stability testing utilizing an ISO/IEC 17025 methodology.

11. Values Obtained During Product Testing: This product is subjected to verification, homogeneity and stability testing using an ISO/IEC 17025 chromatographic methodology. All values obtained during testing meet criteria in accordance with ISO 17034.

12. Period of Validity: The Certified Values, Uncertainties and Expiration Date are based on the unopened product being stored according to the recommended storage condition listed and are guaranteed until the expiration date. This product will be monitored during the period of validity and customers notified of any significant changes in stability.

References:

[1] ISO Guide 31 – Reference Materials – Contents of Certificates and Labels.
[2] ISO Guide 35 – Reference Material – General and Statistical Principles for Certification.
[3] ISO 17034 – General Requirements for the Competence of Reference Material Producers.
[4] ISO/IEC 17025 – General Requirements for the Competence of Testing and Calibration Laboratories.
[5] ISO/IEC Guide 98-3:2008(E) – Uncertainty of Measurement – Part 3: Guide to Expression of Uncertainty in Measurement (GUM: 1995)

Recipient Copy

CHAIN-OF-CUSTODY RECORD

COC No. 15546

Order Number: CB014961

Date Shipped: 11/17/2022

AirBill No(s): 519204142414

From: QATS LABORATORY
2700 CHANDLER AVENUE, BLDG. B
LAS VEGAS, NV 89120
PHONE: 1-702-895-8712

To: Kelly Bottem
Analytical Resources, Inc.
4611 S. 134th Place SUITE 100
Tukwila WA 98168
206-695-6211

Sample ID	Sigma ID	Qty	Description/Remarks	→ Catalogue Number
PSRM0164	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0165	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM
PSRM0166	SR0431	1	PUGET SOUND SEDIMENT RM	PS-SRM

11/17/2022

PUGET SOUND SRM FOR THE LOCKHEED WEST SEATTLE SF SITE 5-YEAR REVIEW MONITORING.

Please use the enclosed Sample Preparation Instructions. If catalogue number(s) are listed at the top of the Sample Preparation Instructions use the Sample Preparation Instructions with catalogue number(s) matching the catalogue number(s) of each of the samples listed above.

Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time
	11/17/2022 (1400)	phillip	11/18/22 10:22
Custody Seal(s): Present/Absent	Remarks:		
Relinquished by: (Signature)	Date/Time	Received by: (Signature)	Date/Time

Analytical Resources, LLC
Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-01 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-012
% Solids:	64.31	Preparation:	Plumb 1981	Analyzed:	12/23/22 09:02
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5024 g Wet / 0.5024 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.90	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-02 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-018
% Solids:	66.54	Preparation:	Plumb 1981	Analyzed:	12/23/22 09:33
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5005 g Wet / 0.5005 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.56	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778C-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-03 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-024
% Solids:	63.31	Preparation:	Plumb 1981	Analyzed:	12/23/22 10:03
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.519 g Wet / 0.519 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.84	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-04 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 10:10	File ID:	CubeData_12272022@1519-030
% Solids:	56.28	Preparation:	Plumb 1981	Analyzed:	12/23/22 10:33
Batch:	BKL0501	Sequence:	SKL0276	Initial/Final:	0.5119 g Wet / 0.5119 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.89	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-05 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1519-085
% Solids:	58.88	Preparation:	Plumb 1981	Analyzed:	12/23/22 15:37
Batch:	BKL0502	Sequence:	SKL0276	Initial/Final:	0.508 g Wet / 0.508 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.71	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC778F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-06 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1519-102
% Solids:	62.14	Preparation:	Plumb 1981	Analyzed:	12/23/22 17:08
Batch:	BKL0502	Sequence:	SKL0276	Initial/Final:	0.5289 g Wet / 0.5289 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.08	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-07 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1519-110
% Solids:	62.41	Preparation:	Plumb 1981	Analyzed:	12/23/22 17:38
Batch:	BKL0502	Sequence:	SKL0276	Initial/Final:	0.5685 g Wet / 0.5685 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.66	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-08 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1519-117
% Solids:	63.12	Preparation:	Plumb 1981	Analyzed:	12/23/22 18:09
Batch:	BKL0502	Sequence:	SKL0276	Initial/Final:	0.5986 g Wet / 0.5986 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.48	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-09 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1519-123
% Solids:	58.75	Preparation:	Plumb 1981	Analyzed:	12/23/22 18:39
Batch:	BKL0502	Sequence:	SKL0276	Initial/Final:	0.5685 g Wet / 0.5685 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.59	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810B-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-10 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-005
% Solids:	64.70	Preparation:	Plumb 1981	Analyzed:	12/24/22 13:51
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5259 g Wet / 0.5259 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.35	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-11 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-006
% Solids:	58.50	Preparation:	Plumb 1981	Analyzed:	12/24/22 14:21
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5286 g Wet / 0.5286 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.93	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
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LDW22-IT810E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-12 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-007
% Solids:	53.40	Preparation:	Plumb 1981	Analyzed:	12/24/22 14:52
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5346 g Wet / 0.5346 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	4.93	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-13 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-008
% Solids:	55.33	Preparation:	Plumb 1981	Analyzed:	12/24/22 15:22
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5594 g Wet / 0.5594 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.78	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT810G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-14 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-009
% Solids:	64.77	Preparation:	Plumb 1981	Analyzed:	12/24/22 15:52
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5224 g Wet / 0.5224 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.45	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-15 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-010
% Solids:	57.34	Preparation:	Plumb 1981	Analyzed:	12/24/22 16:23
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5215 g Wet / 0.5215 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.02	1	0.02	0.02	

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EPA 9060A m

LDW22-SC779B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-16 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-011
% Solids:	58.04	Preparation:	Plumb 1981	Analyzed:	12/24/22 16:53
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5194 g Wet / 0.5194 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.55	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-17 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-012
% Solids:	56.64	Preparation:	Plumb 1981	Analyzed:	12/24/22 17:24
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.542 g Wet / 0.542 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.63	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-18 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-013
% Solids:	56.68	Preparation:	Plumb 1981	Analyzed:	12/24/22 17:54
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5016 g Wet / 0.5016 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.97	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779D-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-19 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-014
% Solids:	57.56	Preparation:	Plumb 1981	Analyzed:	12/24/22 18:24
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5415 g Wet / 0.5415 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.80	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-20 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-017
% Solids:	60.94	Preparation:	Plumb 1981	Analyzed:	12/24/22 19:55
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5059 g Wet / 0.5059 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.97	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-21 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-018
% Solids:	60.85	Preparation:	Plumb 1981	Analyzed:	12/24/22 20:26
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5011 g Wet / 0.5011 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.85	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-22 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-019
% Solids:	61.19	Preparation:	Plumb 1981	Analyzed:	12/24/22 20:56
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5262 g Wet / 0.5262 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.13	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-23 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-020
% Solids:	64.79	Preparation:	Plumb 1981	Analyzed:	12/24/22 21:26
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5141 g Wet / 0.5141 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.51	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-24 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/21/22 11:40	File ID:	CubeData_12272022@1526-021
% Solids:	64.41	Preparation:	Plumb 1981	Analyzed:	12/24/22 21:56
Batch:	BKL0502	Sequence:	SKL0311	Initial/Final:	0.5244 g Wet / 0.5244 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.54	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC779J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-25 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-026
% Solids:	71.60	Preparation:	Plumb 1981	Analyzed:	12/25/22 00:29
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5329 g Wet / 0.5329 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.74	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-26 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-031
% Solids:	68.95	Preparation:	Plumb 1981	Analyzed:	12/25/22 03:01
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.562 g Wet / 0.562 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.99	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-27 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-032
% Solids:	64.33	Preparation:	Plumb 1981	Analyzed:	12/25/22 03:31
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5169 g Wet / 0.5169 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.21	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-28 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-033
% Solids:	71.36	Preparation:	Plumb 1981	Analyzed:	12/25/22 04:02
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5148 g Wet / 0.5148 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.65	1	0.02	0.02	

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Analytical Chemists and Consultants

Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-29 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-034
% Solids:	68.24	Preparation:	Plumb 1981	Analyzed:	12/25/22 04:32
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5019 g Wet / 0.5019 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.65	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-30 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-035
% Solids:	68.45	Preparation:	Plumb 1981	Analyzed:	12/25/22 05:03
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5157 g Wet / 0.5157 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.01	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-31 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-036
% Solids:	72.15	Preparation:	Plumb 1981	Analyzed:	12/25/22 05:33
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5205 g Wet / 0.5205 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.54	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-32RE1 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_01032023@1005-008
% Solids:	58.67	Preparation:	Plumb 1981	Analyzed:	12/30/22 11:47
Batch:	BKL0503	Sequence:	SKL0336	Initial/Final:	0.201 g Wet / 0.201 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	3.80	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-33 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-038
% Solids:	65.02	Preparation:	Plumb 1981	Analyzed:	12/25/22 06:34
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5225 g Wet / 0.5225 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.18	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC777I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-34 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-041
% Solids:	63.15	Preparation:	Plumb 1981	Analyzed:	12/25/22 08:06
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5499 g Wet / 0.5499 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.24	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC759C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-35 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-042
% Solids:	63.12	Preparation:	Plumb 1981	Analyzed:	12/25/22 08:37
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5072 g Wet / 0.5072 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.67	1	0.02	0.02	

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INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC759D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-36 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-043
% Solids:	65.52	Preparation:	Plumb 1981	Analyzed:	12/25/22 09:07
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5374 g Wet / 0.5374 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.62	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC759E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-37 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-044
% Solids:	71.07	Preparation:	Plumb 1981	Analyzed:	12/25/22 09:38
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5568 g Wet / 0.5568 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.67	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-SC759F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-38 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-045
% Solids:	70.46	Preparation:	Plumb 1981	Analyzed:	12/25/22 10:08
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.594 g Wet / 0.594 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.89	1	0.02	0.02	

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EPA 9060A m

LDW22-SC759G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-39 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-046
% Solids:	70.87	Preparation:	Plumb 1981	Analyzed:	12/25/22 10:39
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5571 g Wet / 0.5571 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.51	1	0.02	0.02	

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EPA 9060A m

LDW22-SC759H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-40 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-047
% Solids:	64.32	Preparation:	Plumb 1981	Analyzed:	12/25/22 11:09
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5102 g Wet / 0.5102 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.26	1	0.02	0.02	

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EPA 9060A m

LDW22-SC759B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-41 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-052
% Solids:	60.87	Preparation:	Plumb 1981	Analyzed:	12/25/22 14:12
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5225 g Wet / 0.5225 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.33	1	0.02	0.02	

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EPA 9060A m

LDW22-IT809A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-42 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-053
% Solids:	55.02	Preparation:	Plumb 1981	Analyzed:	12/25/22 14:43
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5119 g Wet / 0.5119 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	2.11	1	0.02	0.02	

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EPA 9060A m

LDW22-IT809B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-43 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-054
% Solids:	61.60	Preparation:	Plumb 1981	Analyzed:	12/25/22 15:13
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.53 g Wet / 0.53 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.87	1	0.02	0.02	

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EPA 9060A m

LDW22-IT809C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-44 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 07:25	File ID:	CubeData_12272022@1526-055
% Solids:	48.38	Preparation:	Plumb 1981	Analyzed:	12/25/22 15:44
Batch:	BKL0503	Sequence:	SKL0311	Initial/Final:	0.5089 g Wet / 0.5089 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	4.27	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT809D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-45 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 10:30	File ID:	CubeData_12272022@1526-060
% Solids:	80.80	Preparation:	Plumb 1981	Analyzed:	12/25/22 18:16
Batch:	BKL0504	Sequence:	SKL0311	Initial/Final:	0.5557 g Wet / 0.5557 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.05	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT809E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-46 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 10:30	File ID:	CubeData_12272022@1526-065
% Solids:	81.84	Preparation:	Plumb 1981	Analyzed:	12/25/22 20:47
Batch:	BKL0504	Sequence:	SKL0311	Initial/Final:	0.593 g Wet / 0.593 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.07	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT809F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-47 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 10:30	File ID:	CubeData_12272022@1526-066
% Solids:	72.71	Preparation:	Plumb 1981	Analyzed:	12/25/22 21:18
Batch:	BKL0504	Sequence:	SKL0311	Initial/Final:	0.5494 g Wet / 0.5494 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	1.25	1	0.02	0.02	

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Form I
INORGANIC ANALYSIS DATA SHEET
EPA 9060A m

LDW22-IT809G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-48 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/22/22 10:30	File ID:	CubeData_12272022@1526-067
% Solids:	92.25	Preparation:	Plumb 1981	Analyzed:	12/25/22 21:48
Batch:	BKL0504	Sequence:	SKL0311	Initial/Final:	0.5422 g Wet / 0.5422 g
Instrument:	TOC Cube			Calibration:	FD00070

CAS NO.	Analyte	Concentration (% dry)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	0.02	1	0.02	0.02	U

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0501 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778B	22L0246-01	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC778C	22L0246-02	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC778C-FD	22L0246-03	eData_12272022@1519-	12/21/22 10:10	
LDW22-SC778D	22L0246-04	eData_12272022@1519-	12/21/22 10:10	
Blank	BKL0501-BLK1	eData_12272022@1519-	12/21/22 10:10	
LCS	BKL0501-BS1	eData_12272022@1519-	12/21/22 10:10	
MRL Check	BKL0501-MRL1	eData_12272022@1519-	12/21/22 10:10	
Reference	BKL0501-SRM1	eData_12272022@1519-	12/21/22 10:10	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0502 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778E	22L0246-05	eData_12272022@1519-	12/21/22 11:40	
LDW22-SC778F	22L0246-06	eData_12272022@1519-	12/21/22 11:40	
LDW22-IT810A	22L0246-07	eData_12272022@1519-	12/21/22 11:40	
LDW22-IT810B	22L0246-08	eData_12272022@1519-	12/21/22 11:40	
LDW22-IT810C	22L0246-09	eData_12272022@1519-	12/21/22 11:40	
LDW22-IT810B-FD	22L0246-10	eData_12272022@1526-	12/21/22 11:40	
LDW22-IT810D	22L0246-11	eData_12272022@1526-	12/21/22 11:40	
LDW22-IT810E	22L0246-12	eData_12272022@1526-	12/21/22 11:40	
LDW22-IT810F	22L0246-13	eData_12272022@1526-	12/21/22 11:40	
LDW22-IT810G	22L0246-14	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779A	22L0246-15	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779B	22L0246-16	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779C	22L0246-17	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779D	22L0246-18	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779D-FD	22L0246-19	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779E	22L0246-20	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779F	22L0246-21	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779G	22L0246-22	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779H	22L0246-23	eData_12272022@1526-	12/21/22 11:40	
LDW22-SC779I	22L0246-24	eData_12272022@1526-	12/21/22 11:40	
Blank	BKL0502-BLK1	eData_12272022@1519-	12/21/22 11:40	
LCS	BKL0502-BS1	eData_12272022@1519-	12/21/22 11:40	
LDW22-SC778E	BKL0502-DUP1	eData_12272022@1519-	12/21/22 11:40	
MRL Check	BKL0502-MRL1	eData_12272022@1519-	12/21/22 11:40	
LDW22-SC778E	BKL0502-MS2	eData_01032023@1005-	12/21/22 11:40	
Reference	BKL0502-SRM1	eData_12272022@1519-	12/21/22 11:40	

Analytical Resources, LLC
Analytical Chemists and Consultants

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0503 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC779J	22L0246-25	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777A	22L0246-26	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777B	22L0246-27	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777C	22L0246-28	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777D	22L0246-29	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777E	22L0246-30	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777F	22L0246-31	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777G	22L0246-32RE1	eData_01032023@1005-	12/22/22 07:25	Added 12/28/2022 by DOE
LDW22-SC777H	22L0246-33	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC777I	22L0246-34	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759C	22L0246-35	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759D	22L0246-36	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759E	22L0246-37	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759F	22L0246-38	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759G	22L0246-39	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759H	22L0246-40	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC759B	22L0246-41	eData_12272022@1526-	12/22/22 07:25	
LDW22-IT809A	22L0246-42	eData_12272022@1526-	12/22/22 07:25	
LDW22-IT809B	22L0246-43	eData_12272022@1526-	12/22/22 07:25	
LDW22-IT809C	22L0246-44	eData_12272022@1526-	12/22/22 07:25	
Blank	BKL0503-BLK1	eData_12272022@1526-	12/22/22 07:25	
LCS	BKL0503-BS1	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC779J	BKL0503-DUP2	eData_01032023@1005-	12/22/22 07:25	
MRL Check	BKL0503-MRL1	eData_12272022@1526-	12/22/22 07:25	
LDW22-SC779J	BKL0503-MS2	eData_01032023@1005-	12/22/22 07:25	
Reference	BKL0503-SRM1	eData_12272022@1526-	12/22/22 07:25	

PREPARATION BATCH SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0504 Batch Matrix: Solid Preparation: Plumb 1981

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT809D	22L0246-45	eData_12272022@1526-	12/22/22 10:30	
LDW22-IT809E	22L0246-46	eData_12272022@1526-	12/22/22 10:30	
LDW22-IT809F	22L0246-47	eData_12272022@1526-	12/22/22 10:30	
LDW22-IT809G	22L0246-48	eData_12272022@1526-	12/22/22 10:30	
Blank	BKL0504-BLK1	eData_12272022@1526-	12/22/22 10:30	
LCS	BKL0504-BS1	eData_12272022@1526-	12/22/22 10:30	
LDW22-IT809D	BKL0504-DUP1	eData_12272022@1526-	12/22/22 10:30	
MRL Check	BKL0504-MRL1	eData_12272022@1526-	12/22/22 10:30	
LDW22-IT809D	BKL0504-MS1	eData_12272022@1526-	12/22/22 10:30	
Reference	BKL0504-SRM1	eData_12272022@1526-	12/22/22 10:30	

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0246

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0501 | Laboratory ID: BKL0501-BLK1 | Prepared: 12/21/22 10:10

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/22/22 20:21

Sequence: SKL0276 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0246

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0502 | Laboratory ID: BKL0502-BLK1 | Prepared: 12/21/22 11:40

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/23/22 14:06

Sequence: SKL0276 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0246

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0503 | Laboratory ID: BKL0503-BLK1 | Prepared: 12/22/22 07:25

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/24/22 22:57

Sequence: SKL0311 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

Form I

METHOD BLANK DATA SHEET

EPA 9060A m

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC | SDG: 22L0246

Client: Anchor QEA, LLC | Project: AOC4 UR Phase 3

Batch: BKL0504 | Laboratory ID: BKL0504-BLK1 | Prepared: 12/22/22 10:30

Matrix: Solid | Preparation: Plumb 1981 | Analyzed: 12/25/22 16:45

Sequence: SKL0311 | Calibration: FD00070 | Instrument: TOC Cube

CAS NO.	Analyte	Concentration (% wet)	Dilution Factor	MDL	MRL	Q
	Total Organic Carbon	ND	1	0.02	0.02	U

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/22/22 20:52
Batch:	BKL0501	Laboratory ID:	BKL0501-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0226 g / 0.0226 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.8		101	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/23/22 14:36
Batch:	BKL0502	Laboratory ID:	BKL0502-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0221 g / 0.0221 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	45.5		102	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/24/22 23:28
Batch:	BKL0503	Laboratory ID:	BKL0503-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0201 g / 0.0201 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.4		99.9	80 - 120

* Indicates values outside of QC limits

LCS / LCS DUPLICATE RECOVERY

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/25/22 17:15
Batch:	BKL0504	Laboratory ID:	BKL0504-BS1
Preparation:	Plumb 1981	Sequence Name:	LCS
Initial/Final:	0.0213 g / 0.0213 g		

COMPOUND	SPIKE ADDED (% wet)	LCS CONCENTRATION (% wet)	Q	LCS % REC. #	QC LIMITS REC.
Total Organic Carbon	44.4	44.8		101	80 - 120

* Indicates values outside of QC limits

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0502-DUP1
Batch: BKL0502
Lab Source ID: 22L0246-05
Preparation: Plumb 1981
Initial/Final: 0.5531 g / 0.5531 g
Source Sample Name: LDW22-SC778E
% Solids: 58.88

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	3.71	3.83	3.11	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0503-DUP2
Batch: BKL0503
Lab Source ID: 22L0246-25
Preparation: Plumb 1981
Initial/Final: 0.5033 g / 0.5033 g
Source Sample Name: LDW22-SC779J
% Solids: 71.60

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.74	0.80	8.17	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0504-DUP1
Batch: BKL0504
Lab Source ID: 22L0246-45
Preparation: Plumb 1981
Initial/Final: 0.5193 g / 0.5193 g
Source Sample Name: LDW22-IT809D
% Solids: 80.80

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Organic Carbon	20	0.05	0.06	4.55	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	01/01/23 14:37
Batch:	BKL0502	Laboratory ID:	BKL0502-MS2
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.0953 g / 0.0953 g	Source Sample:	LDW22-SC778E

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	7.37	3.71		11.3		103	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/30/22 10:15
Batch:	BKL0503	Laboratory ID:	BKL0503-MS2
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5118 g / 0.5118 g	Source Sample:	LDW22-SC779J

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	0.982	0.74		1.92		121	75 - 125

* Values outside of QC limits

MS / MS DUPLICATE RECOVERY
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Matrix:	Solid	Analyzed:	12/25/22 20:17
Batch:	BKL0504	Laboratory ID:	BKL0504-MS1
Preparation:	Plumb 1981	Sequence Name:	Matrix Spike
Initial/Final:	0.5988 g / 0.5988 g	Source Sample:	LDW22-IT809D

COMPOUND	SPIKE ADDED (% dry)	SAMPLE CONCENTRATION (% dry)	Q	MS CONCENTRATION (% dry)	Q	MS % REC. #	QC LIMITS REC.
Total Organic Carbon	0.799	0.05		0.86		101	75 - 125

* Values outside of QC limits

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKD0371
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Cal Standard	SKD0371-CAL1	CubeData_04272022@1136-001	NA	04/26/22 12:30
Cal Standard	SKD0371-CAL2	CubeData_04272022@1136-002	NA	04/26/22 13:00
Cal Standard	SKD0371-CAL3	CubeData_04272022@1136-003	NA	04/26/22 13:30
Cal Standard	SKD0371-CAL4	CubeData_04272022@1136-004	NA	04/26/22 14:00
Cal Standard	SKD0371-CAL5	CubeData_04272022@1136-005	NA	04/26/22 14:30
Cal Standard	SKD0371-CAL6	CubeData_04272022@1136-006	NA	04/26/22 15:00
Cal Standard	SKD0371-CAL7	CubeData_04272022@1136-007	NA	04/26/22 15:30
Cal Standard	SKD0371-CAL8	CubeData_04272022@1136-008	NA	04/26/22 16:00
Cal Standard	SKD0371-CAL9	CubeData_04272022@1136-009	NA	04/26/22 16:30
Cal Standard	SKD0371-CALA	CubeData_04272022@1136-010	NA	04/26/22 17:00
Cal Standard	SKD0371-CALB	CubeData_04272022@1136-011	NA	04/26/22 17:30
Cal Standard	SKD0371-CALC	CubeData_04272022@1136-012	NA	04/26/22 18:00
Cal Standard	SKD0371-CALD	CubeData_04272022@1136-013	NA	04/26/22 18:30
Cal Standard	SKD0371-CALE	CubeData_04272022@1136-014	NA	04/26/22 19:00
Cal Standard	SKD0371-CALF	CubeData_04272022@1136-015	NA	04/26/22 19:31
Cal Standard	SKD0371-CALG	CubeData_04272022@1136-016	NA	04/26/22 20:01
Cal Standard	SKD0371-CALH	CubeData_04272022@1136-017	NA	04/26/22 20:31
Cal Standard	SKD0371-CALI	CubeData_04272022@1136-018	NA	04/26/22 21:01
Cal Standard	SKD0371-CALJ	CubeData_04272022@1136-019	NA	04/26/22 21:31
Cal Standard	SKD0371-CALK	CubeData_04272022@1136-020	NA	04/26/22 22:01
Initial Cal Check	SKD0371-ICV1	CubeData_04272022@1136-027	NA	04/27/22 02:03
Initial Cal Blank	SKD0371-ICB1	CubeData_04272022@1136-028	NA	04/27/22 02:33
Cal Standard	SKD0371-CALL	CubeData_04272022@1136-021	NA	04/27/22 11:08
Cal Standard	SKD0371-CALM	CubeData_04272022@1136-022	NA	04/27/22 11:08
Cal Standard	SKD0371-CALN	CubeData_04272022@1136-023	NA	04/27/22 11:09
Cal Standard	SKD0371-CALO	CubeData_04272022@1136-024	NA	04/27/22 11:09

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0276

SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0276-ICV1	CubeData_12272022@1519-019	NA	12/21/22 12:29
Initial Cal Blank	SKL0276-ICB1	CubeData_12272022@1519-025	NA	12/21/22 12:59
Calibration Check	SKL0276-CCV1	CubeData_12272022@1519-084	NA	12/21/22 18:32
Calibration Blank	SKL0276-CCB1	CubeData_12272022@1519-092	NA	12/21/22 19:03
Calibration Check	SKL0276-CCV2	CubeData_12272022@1519-140	NA	12/22/22 00:36
Calibration Blank	SKL0276-CCB2	CubeData_12272022@1519-141	NA	12/22/22 01:06
Calibration Check	SKL0276-CCV3	CubeData_12272022@1519-152	NA	12/22/22 06:40
Calibration Blank	SKL0276-CCB3	CubeData_12272022@1519-153	NA	12/22/22 07:11
Calibration Check	SKL0276-CCV4	CubeData_12272022@1519-163	NA	12/22/22 12:45
Calibration Blank	SKL0276-CCB4	CubeData_12272022@1519-164	NA	12/22/22 13:16
Calibration Check	SKL0276-CCV5	CubeData_12272022@1519-175	NA	12/22/22 18:50
Calibration Blank	SKL0276-CCB5	CubeData_12272022@1519-176	NA	12/22/22 19:20
MRL Check	BKL0501-MRL1	CubeData_12272022@1519-177	Solid	12/22/22 19:51
Blank	BKL0501-BLK1	CubeData_12272022@1519-178	Solid	12/22/22 20:21
LCS	BKL0501-BS1	CubeData_12272022@1519-179	Solid	12/22/22 20:52
Reference	BKL0501-SRM1	CubeData_12272022@1519-180	Solid	12/22/22 21:22
Calibration Check	SKL0276-CCV6	CubeData_12272022@1519-187	NA	12/23/22 00:56
Calibration Blank	SKL0276-CCB6	CubeData_12272022@1519-188	NA	12/23/22 01:26
Calibration Check	SKL0276-CCV7	CubeData_12272022@1519-199	NA	12/23/22 07:01
Calibration Blank	SKL0276-CCB7	CubeData_12272022@1519-200	NA	12/23/22 07:31
LDW22-SC778B	22L0246-01	CubeData_12272022@1519-012	Solid	12/23/22 09:02
LDW22-SC778C	22L0246-02	CubeData_12272022@1519-018	Solid	12/23/22 09:33
LDW22-SC778C-FD	22L0246-03	CubeData_12272022@1519-024	Solid	12/23/22 10:03
LDW22-SC778D	22L0246-04	CubeData_12272022@1519-030	Solid	12/23/22 10:33
MRL Check	BKL0502-MRL1	CubeData_12272022@1519-035	Solid	12/23/22 11:04
Calibration Check	SKL0276-CCV8	CubeData_12272022@1519-052	NA	12/23/22 13:05
Calibration Blank	SKL0276-CCB8	CubeData_12272022@1519-057	NA	12/23/22 13:35
Blank	BKL0502-BLK1	CubeData_12272022@1519-065	Solid	12/23/22 14:06
LCS	BKL0502-BS1	CubeData_12272022@1519-071	Solid	12/23/22 14:36

ANALYSIS BATCH (SEQUENCE) SUMMARY

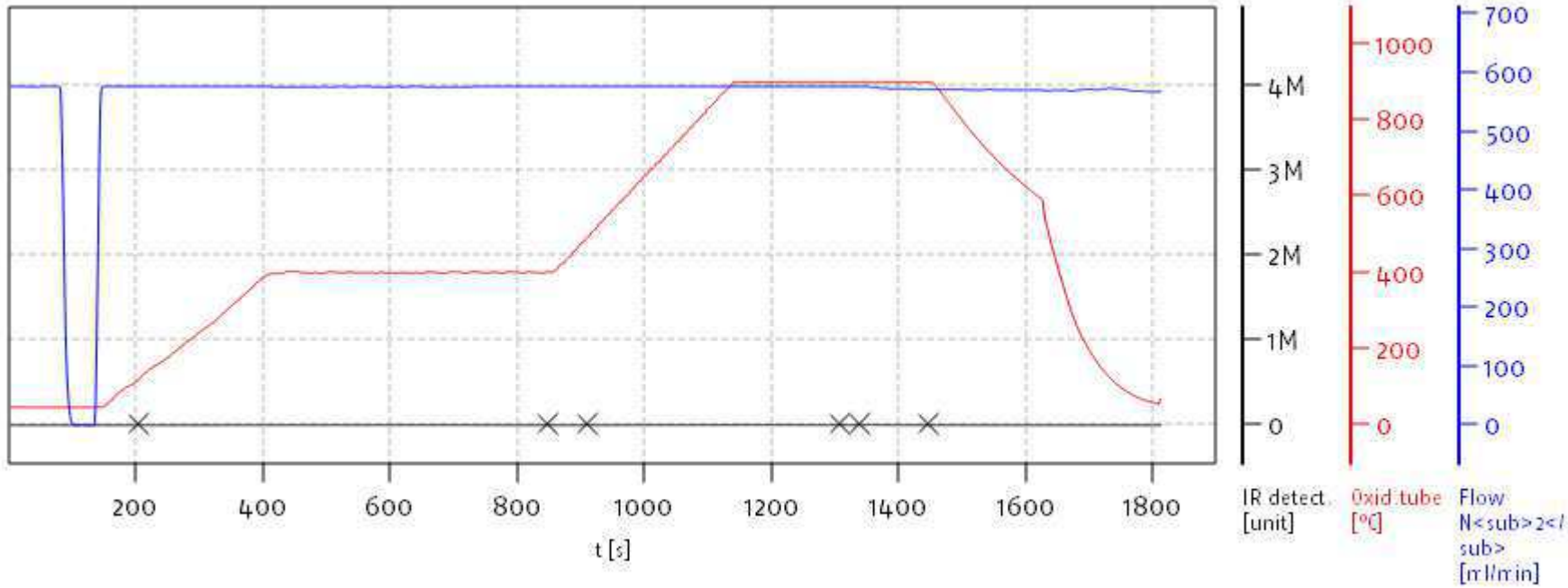
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0276	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Reference	BKL0502-SRM1	CubeData_12272022@1519-078	Solid	12/23/22 15:07
LDW22-SC778E	22L0246-05	CubeData_12272022@1519-085	Solid	12/23/22 15:37
LDW22-SC778E	BKL0502-DUP1	CubeData_12272022@1519-091	Solid	12/23/22 16:08
LDW22-SC778F	22L0246-06	CubeData_12272022@1519-102	Solid	12/23/22 17:08
LDW22-IT810A	22L0246-07	CubeData_12272022@1519-110	Solid	12/23/22 17:38
LDW22-IT810B	22L0246-08	CubeData_12272022@1519-117	Solid	12/23/22 18:09
LDW22-IT810C	22L0246-09	CubeData_12272022@1519-123	Solid	12/23/22 18:39
Calibration Check	SKL0276-CCV9	CubeData_12272022@1519-129	NA	12/23/22 19:09
Calibration Blank	SKL0276-CCB9	CubeData_12272022@1519-136	NA	12/23/22 19:39

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/21/2022 10:58 AM	bl	0.000	24 682	0.000	0.000	8 146	29 401	0.000	0.000	1.0000	1.0000



Name:

Access: soliTOC superuser

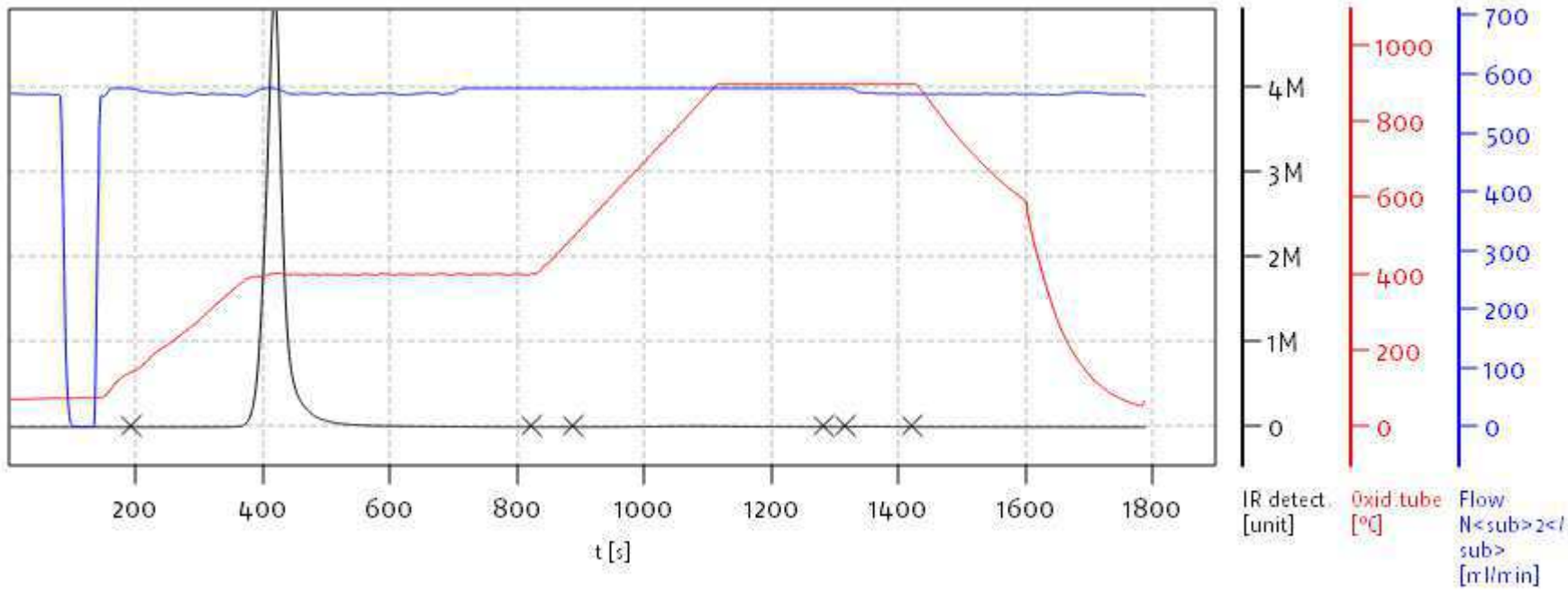
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	21.20		CARBON	12/21/2022 11:28 AM	bl	44.446	6 225 235	44.832	0.000	19 351	79 406	44.446	0.386	0.9819	1.0000



Name:

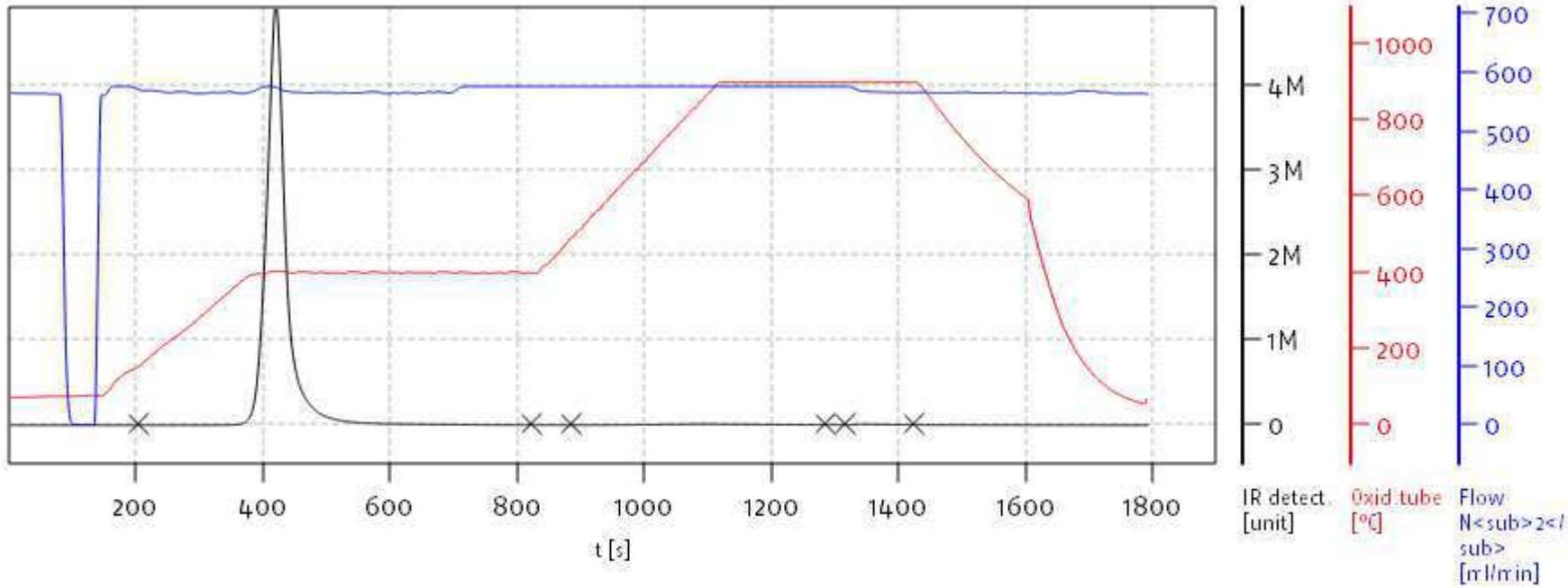
Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	22.70		CARBON	12/21/2022 11:59 AM	bl	44.458	6 638 182	44.979	0.012	28 283	102 975	44.446	0.521	0.9857	1.0000



Name:

Access: soliTOC superuser

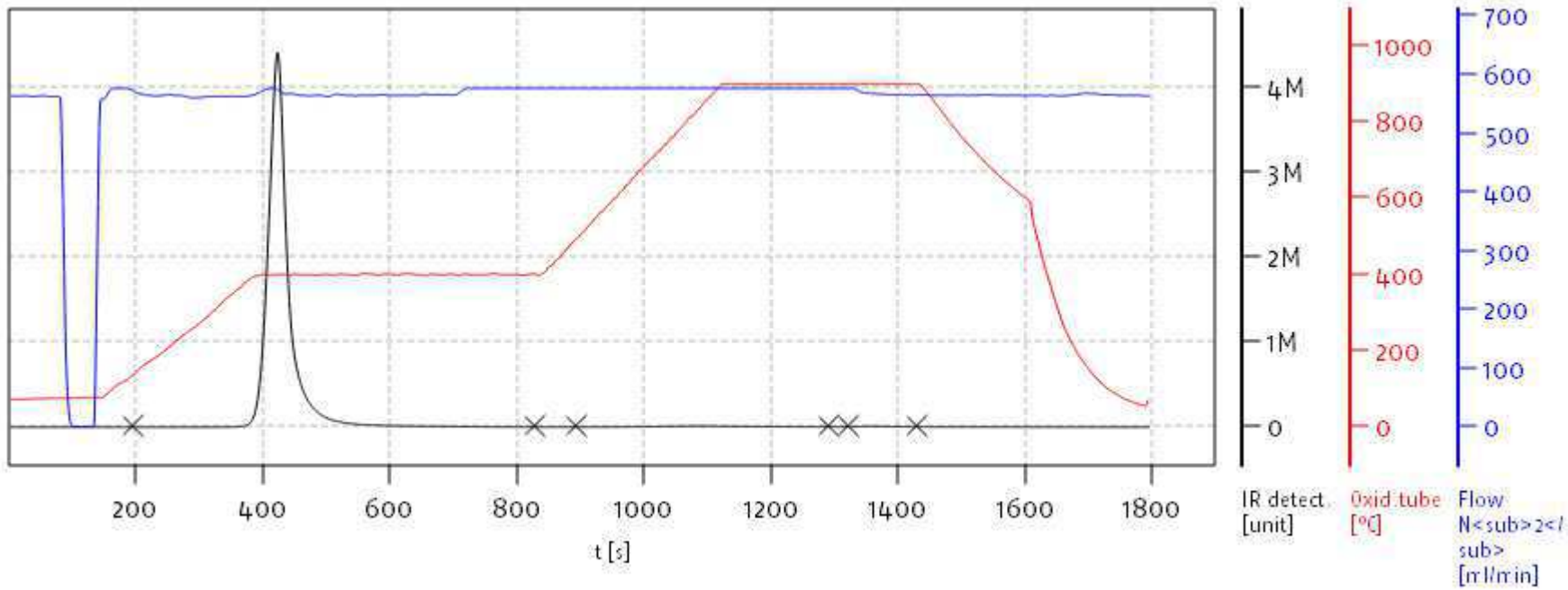
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0276-ICV1	20.60		CARBON	12/21/2022 12:29 PM	bl	44.301	6 018 628	44.793	0.000	25 888	92 006	44.301	0.492	0.9838	1.0000



Name:

Access: soliTOC superuser

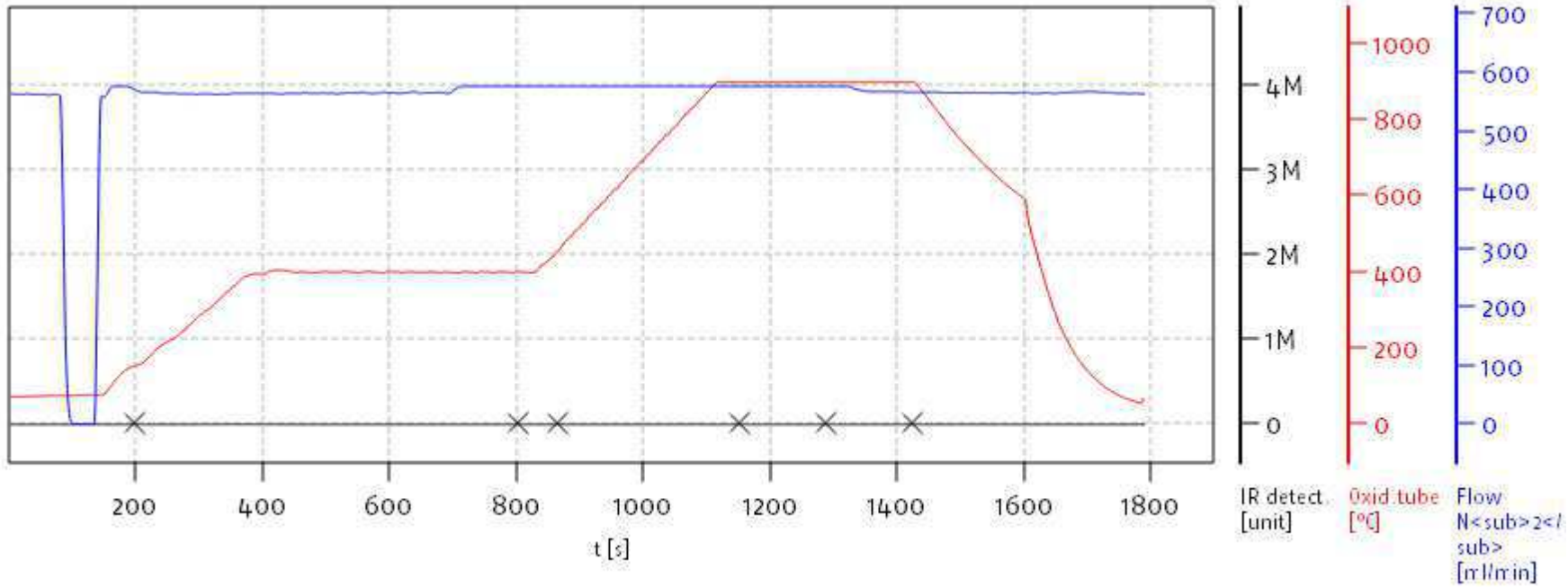
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0276-ICB1	508.30		CARBON	12/21/2022 12:59 PM	bl,C3u,C2u	0.000	6 594	0.000	0.000	1 028	1 604	0.000	0.000	0.9838	1.0000



Name:

Access: soliTOC superuser

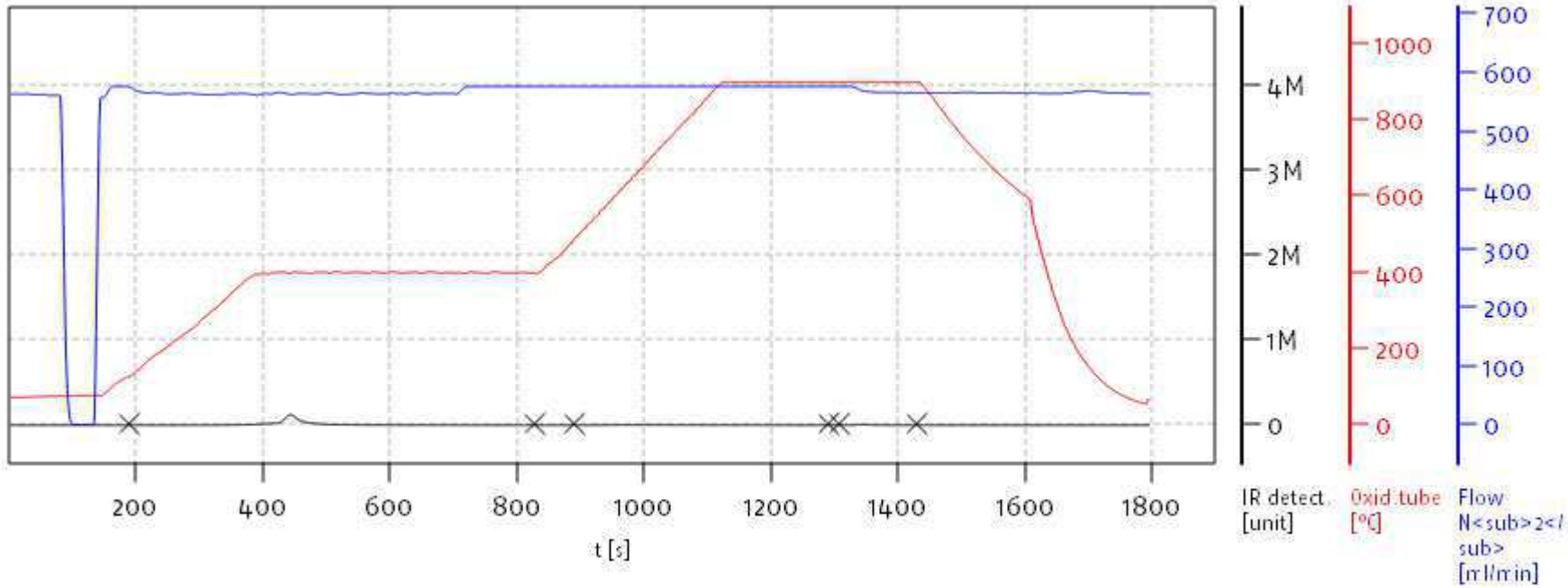
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	22L0199-16	516.00		CARBON	12/21/2022 1:29 PM	bl	0.051	198 660	0.051	0.000	7 779	20 550	0.051	0.000	0.9838	1.0000



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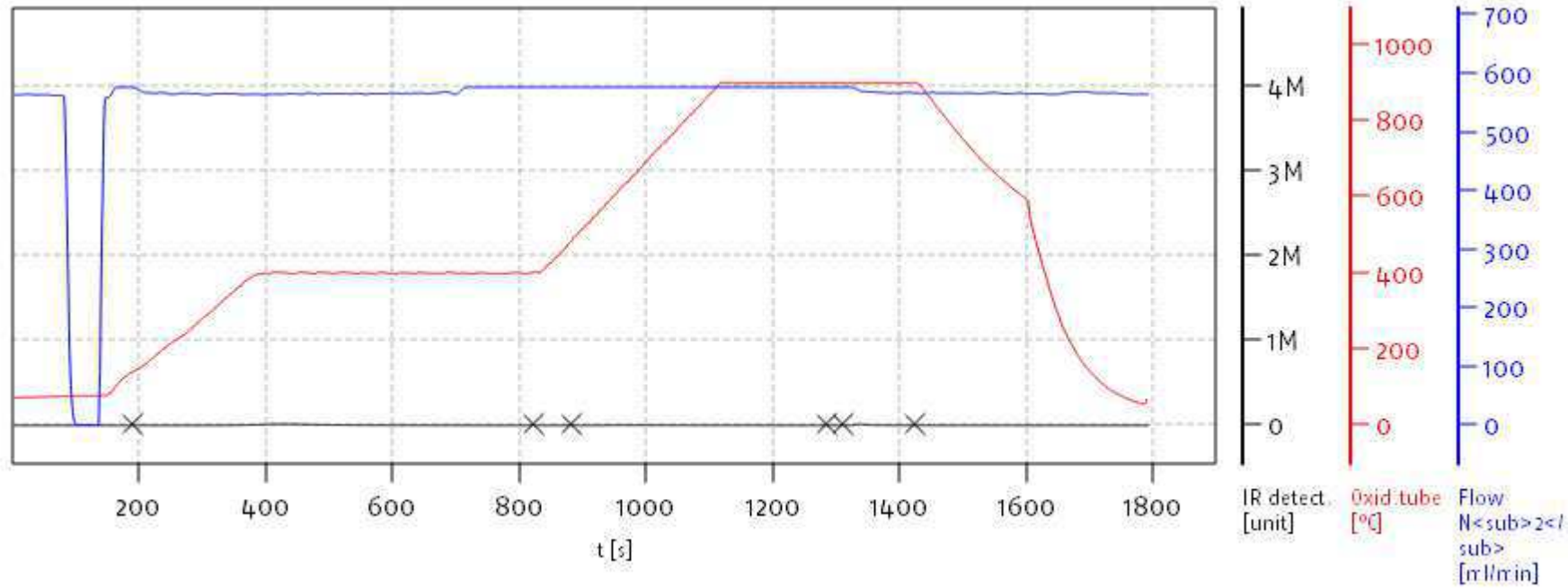
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	BKL0464-DUP1	560.30		CARBON	12/21/2022 2:00 PM	bl	0.014	76 438	0.014	0.000	12 314	17 351	0.014	0.000	0.9838	1.0000



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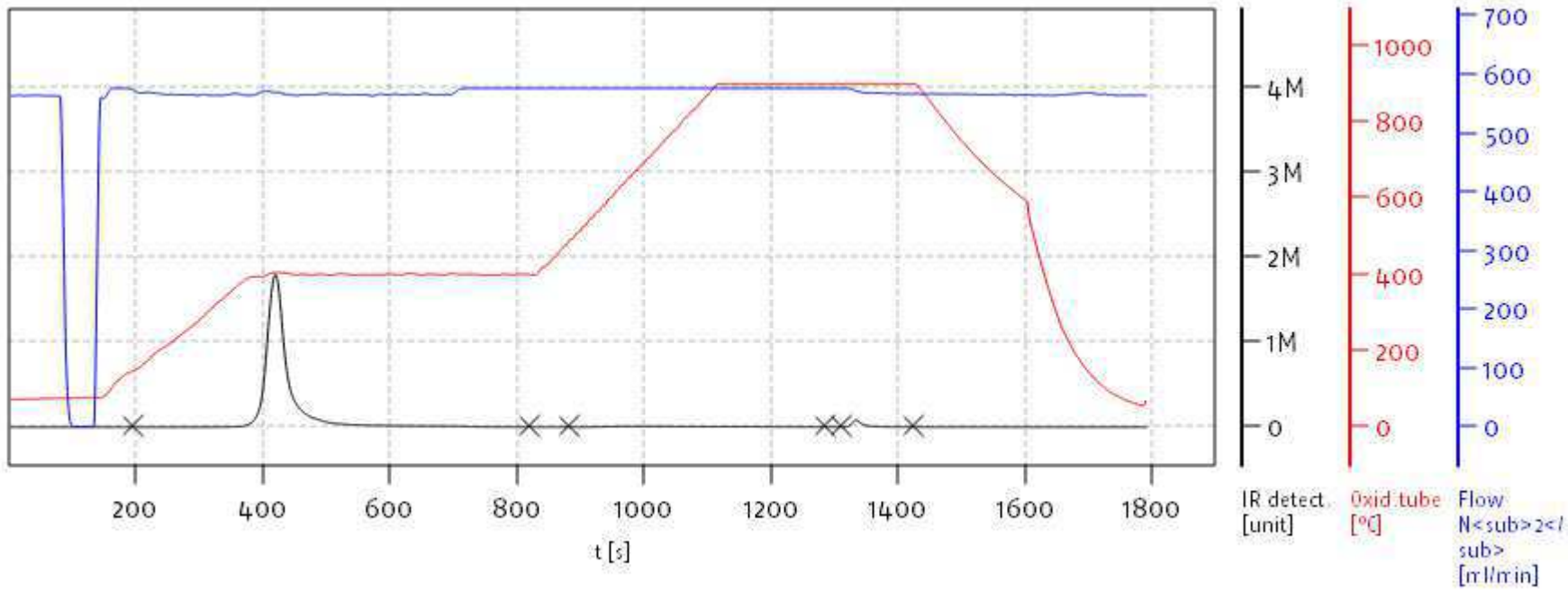
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	BKL0464-MS1	506.80	0.0088	CARBON	12/21/2022 2:30 PM	bl	0.775	2 567 684	0.791	0.011	62 803	80 533	0.764	0.016	0.9838	1.0000



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Balance: BAL3
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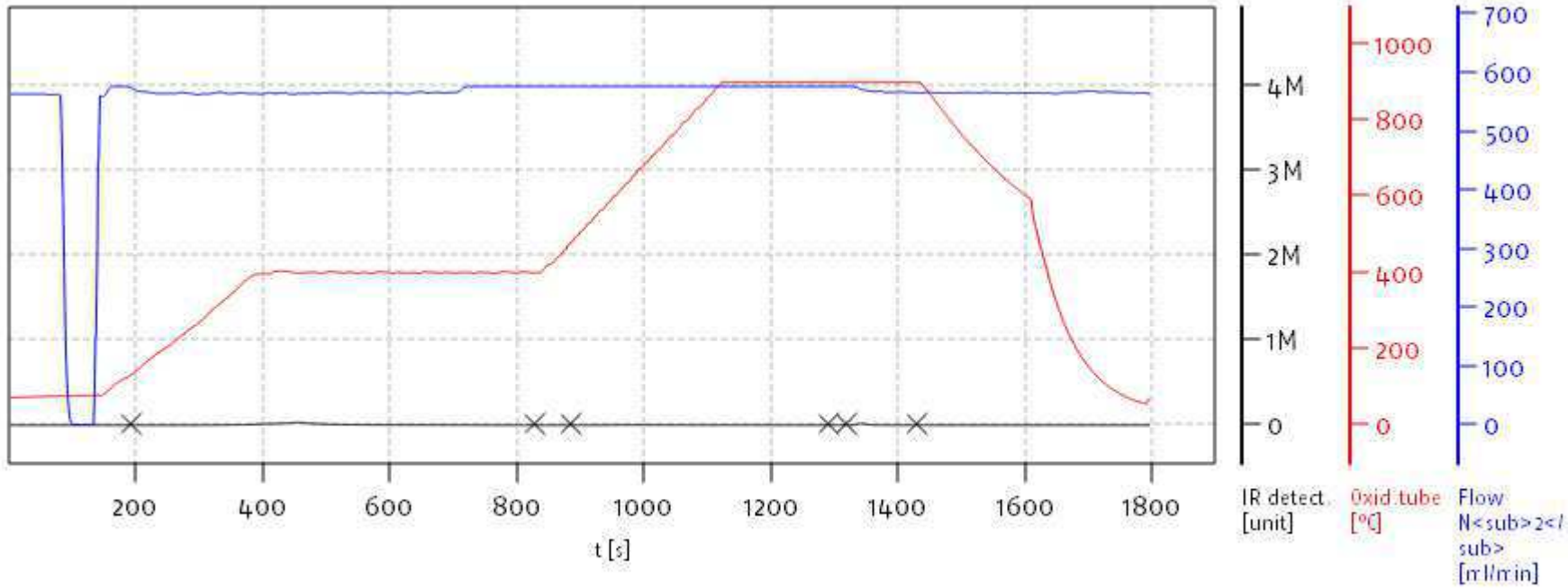
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	22L0199-17	501.30		CARBON	12/21/2022 3:00 PM	bl	0.031	129 549	0.031	0.000	13 366	17 344	0.031	0.000	0.9838	1.0000



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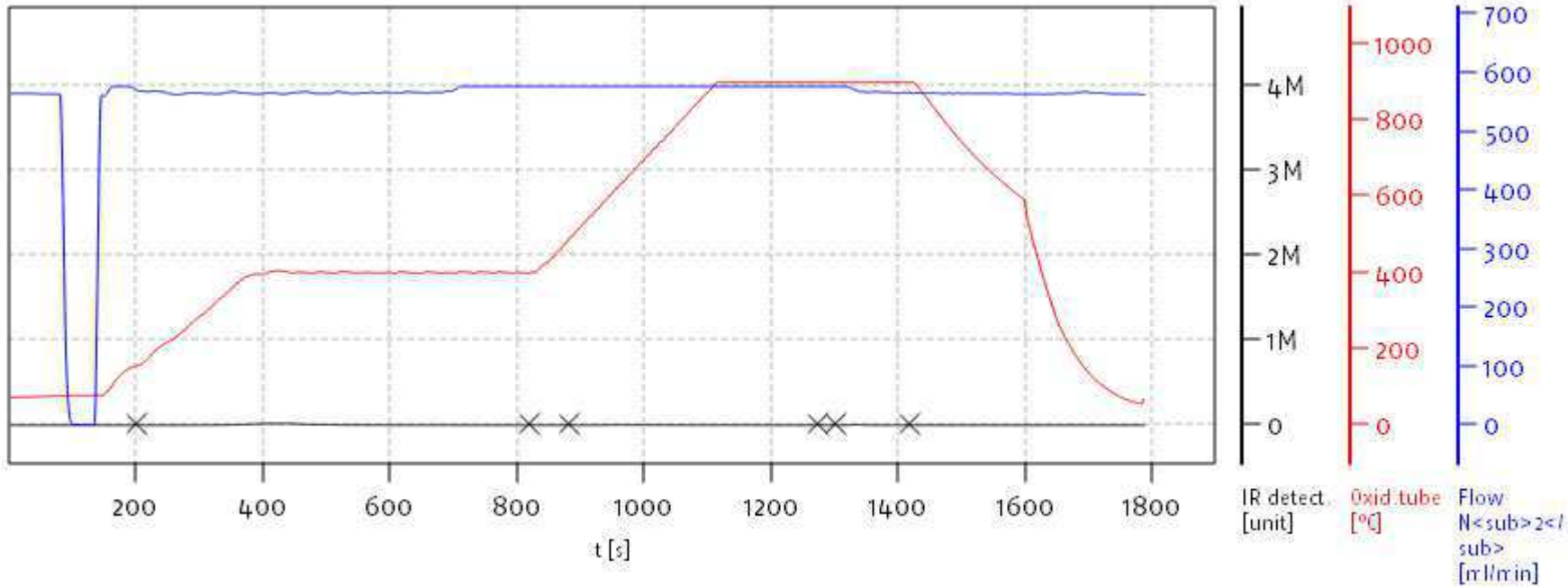
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0199-18	572.10		CARBON	12/21/2022 3:30 PM	bl	0.017	90 347	0.017	0.000	5 283	17 424	0.017	0.000	0.9838	1.0000



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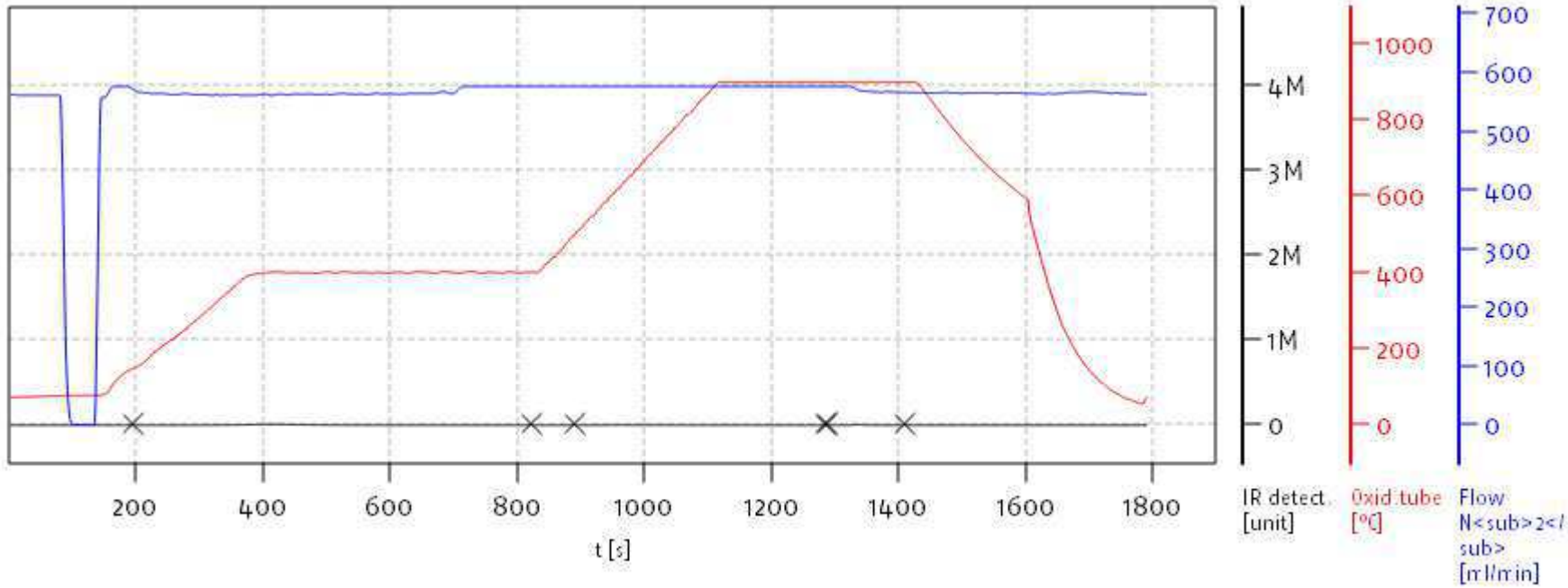
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	22L0199-19	512.10		CARBON	12/21/2022 4:01 PM	bl	0.006	47 291	0.006	0.000	4 828	9 659	0.006	0.000	0.9838	1.0000



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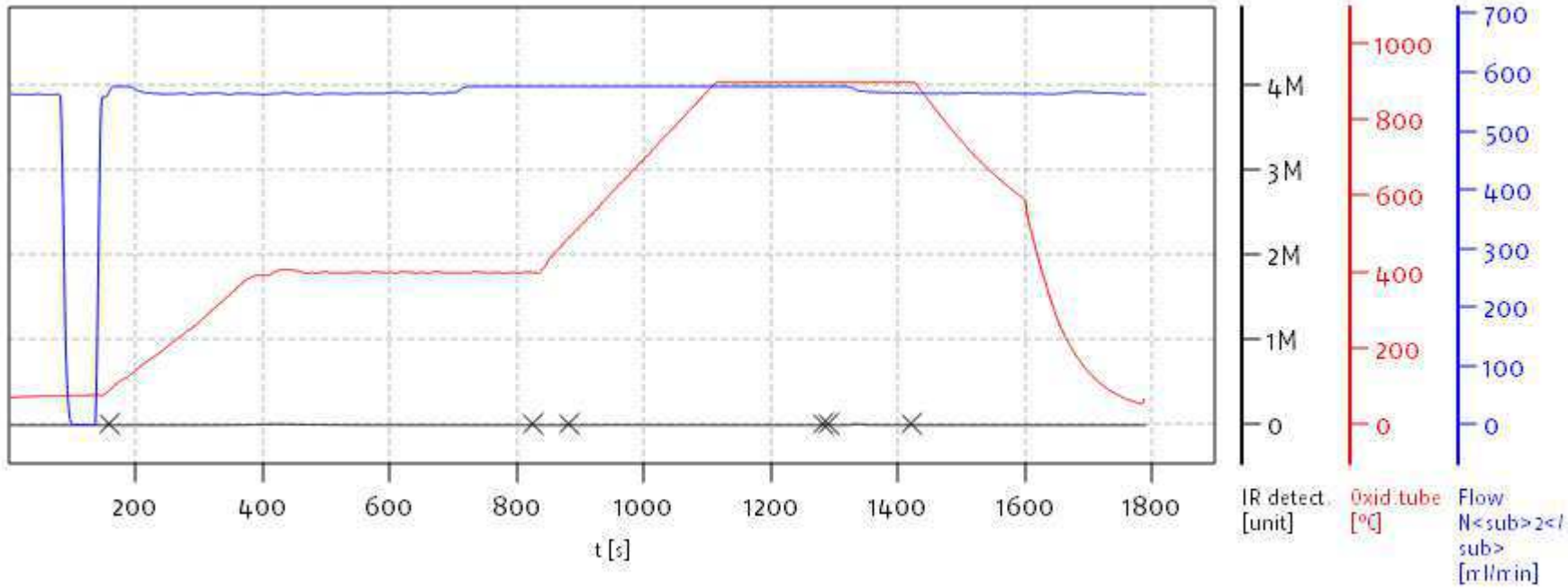
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	22L0199-20	642.40		CARBON	12/21/2022 4:31 PM	bl	0.006	49 859	0.006	0.000	10 087	12 184	0.006	0.000	0.9838	1.0000



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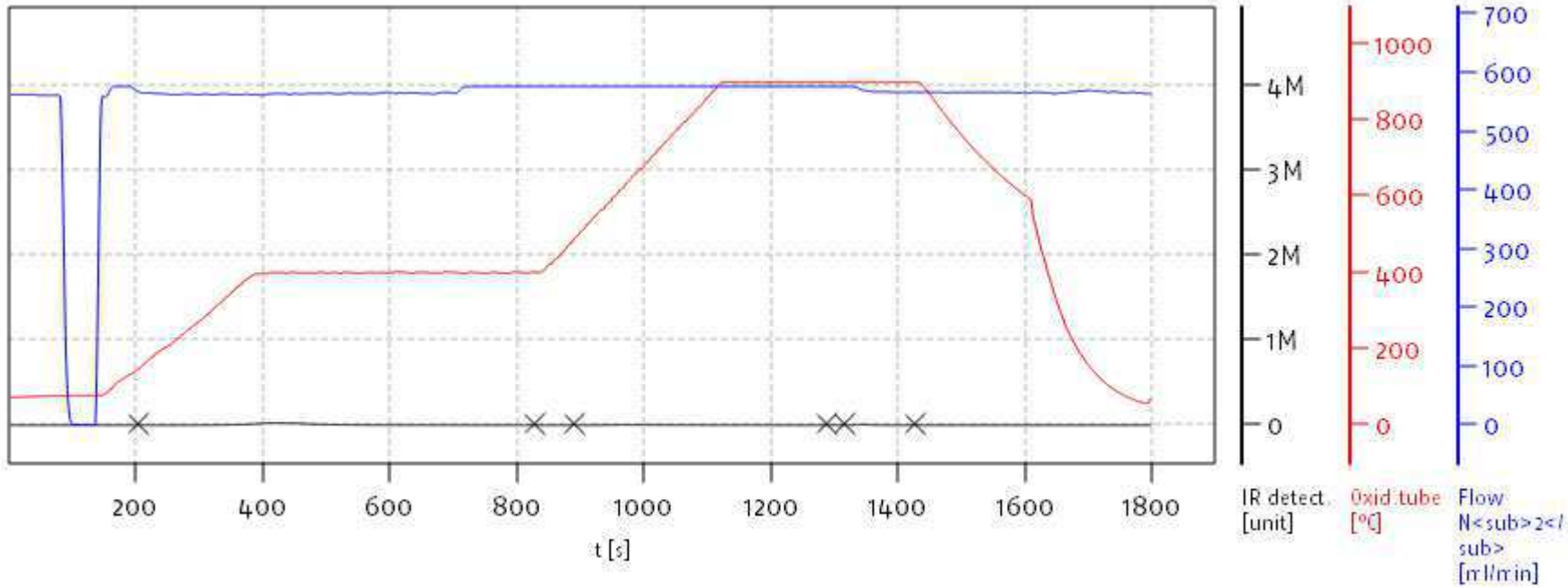
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0199-21	545.00		CARBON	12/21/2022 5:01 PM	bl	0.025	114 887	0.025	0.000	7 022	20 342	0.025	0.000	0.9838	1.0000



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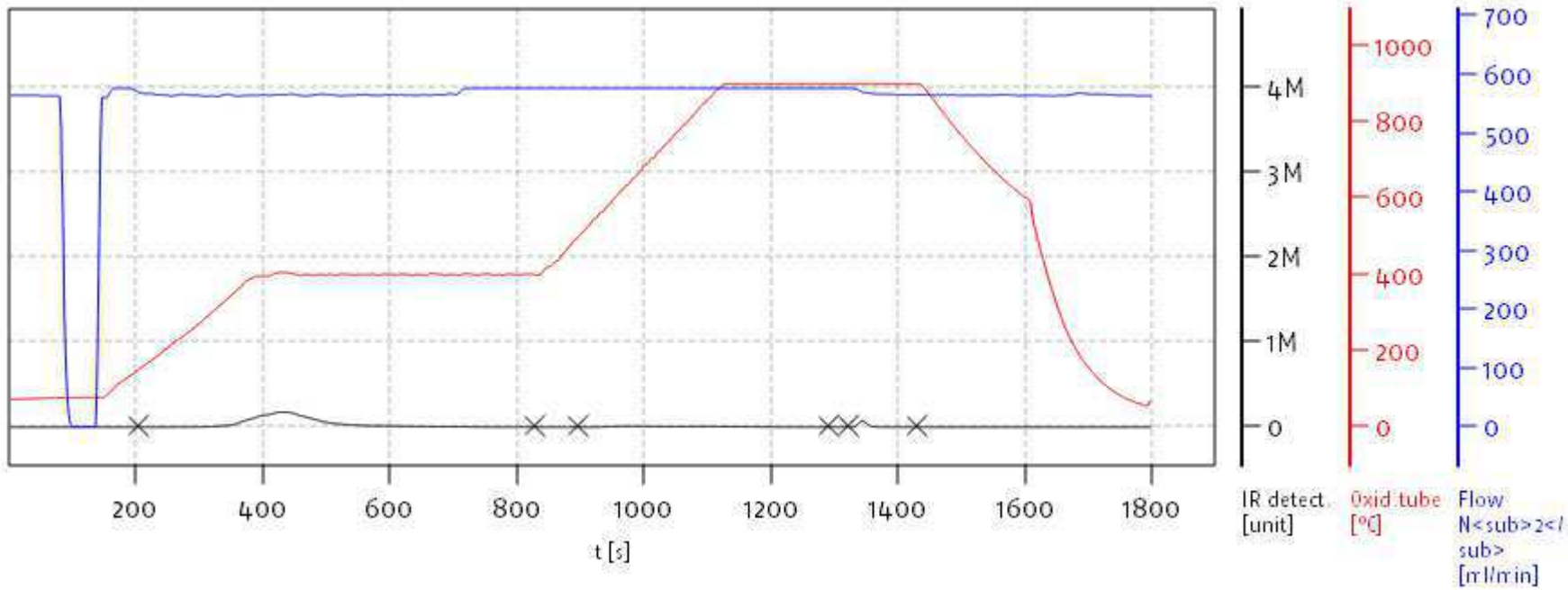
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0199-22	525.70		CARBON	12/21/2022 5:32 PM	bl	0.232	810 668	0.246	0.005	43 970	72 616	0.227	0.014	0.9838	1.0000



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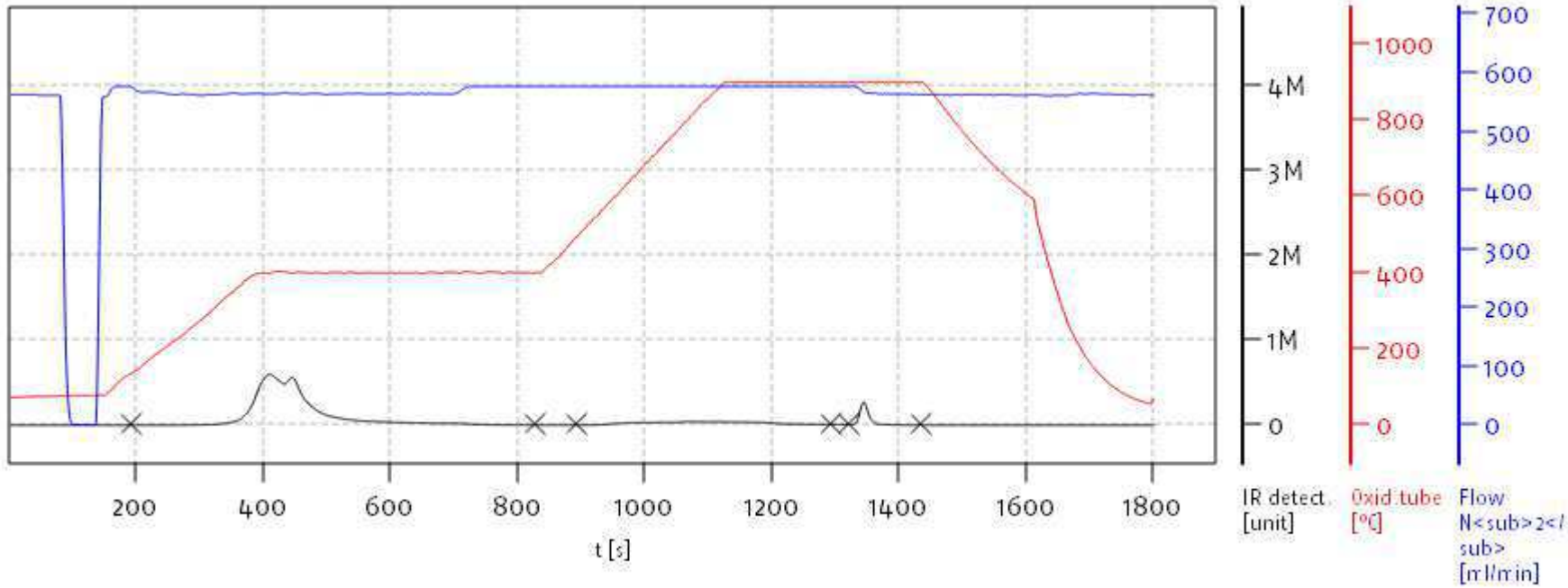
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0199-23	506.50		CARBON	12/21/2022 6:02 PM	bl	0.720	2 273 550	0.823	0.044	171 515	362 735	0.676	0.103	0.9838	1.0000



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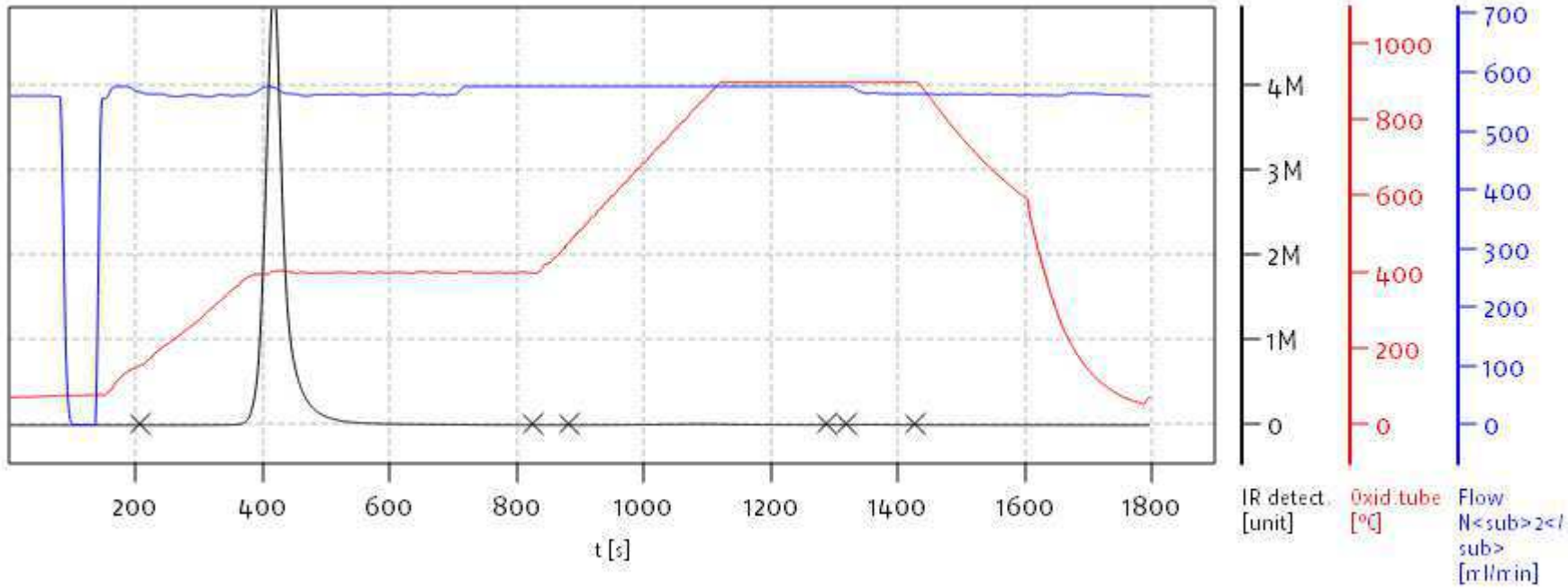
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0276-CCV1	23.00		CARBON	12/21/2022 6:32 PM	bl	44.682	6 774 263	45.101	0.000	16 571	88 811	44.682	0.419	0.9838	1.0000



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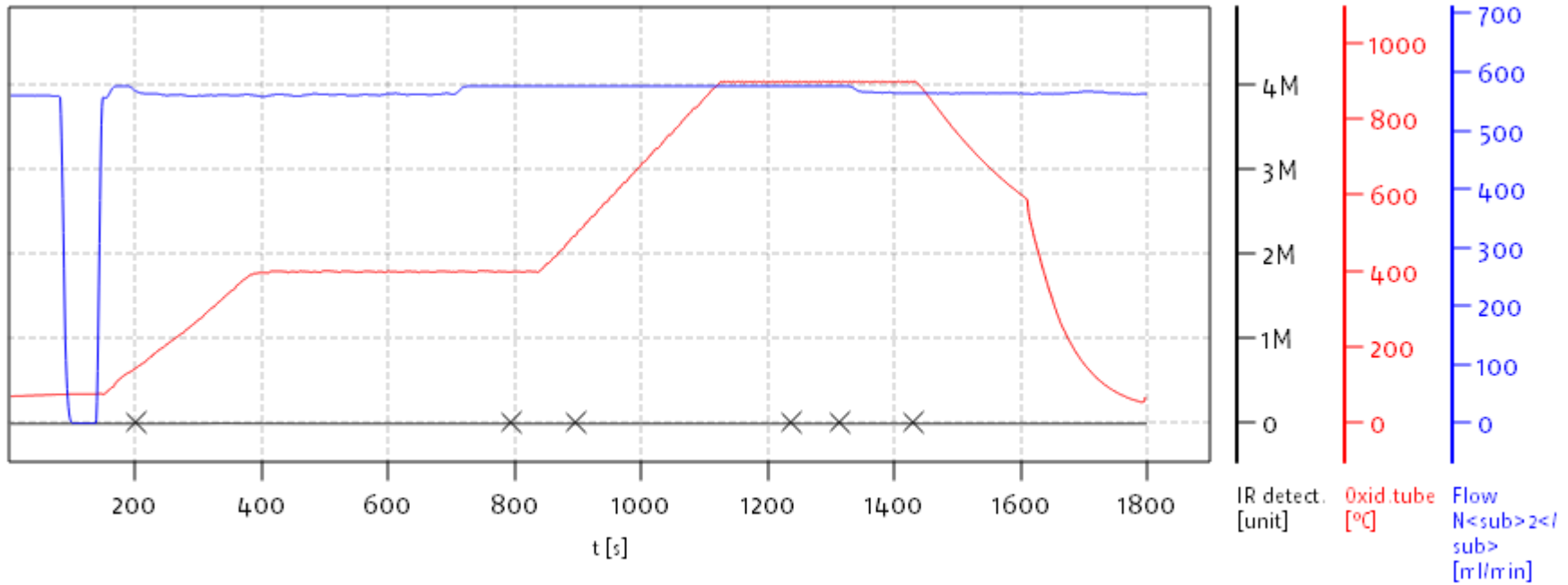
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0276-CCB1	508.60		CARBON	12/21/2022 7:03 PM	bl,C3u,C2u	0.000	11 254	0.000	0.000	540	1 526	0.000	0.000	0.9838	1.0000



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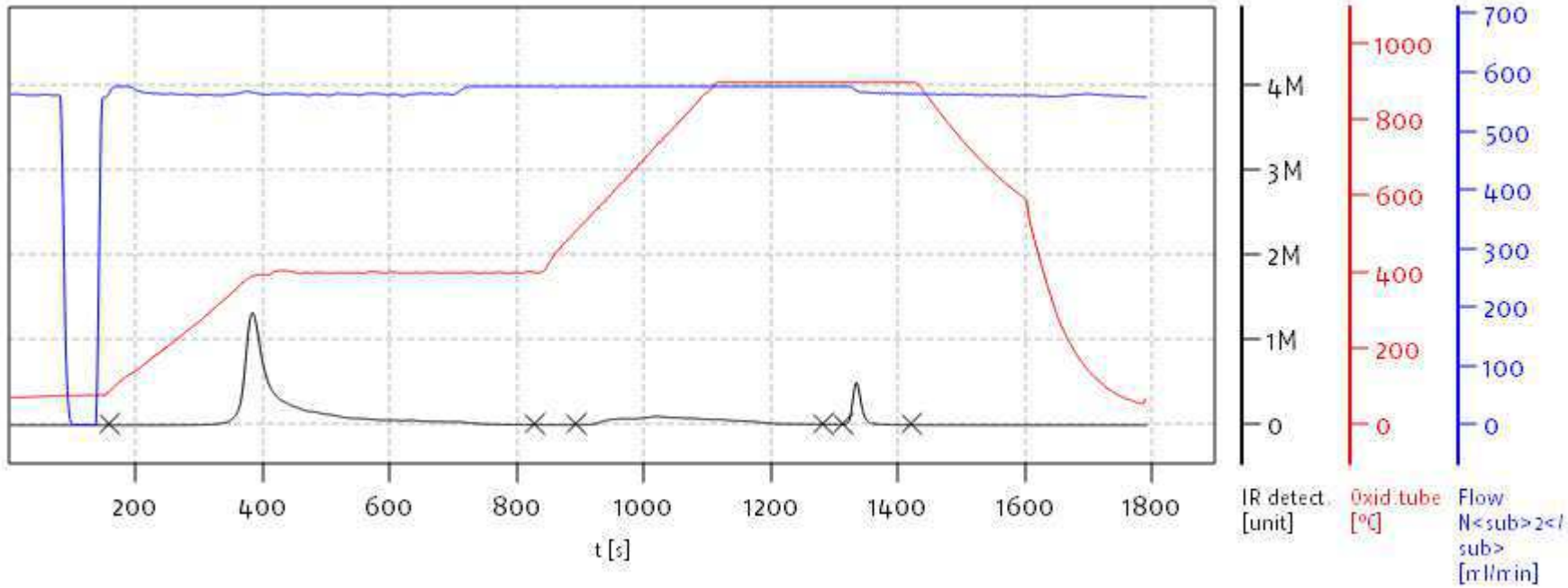
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0199-24	517.90		CARBON	12/21/2022 7:33 PM	bl	0.937	2 922 460	1.152	0.086	312 618	746 388	0.852	0.215	0.9838	1.0000



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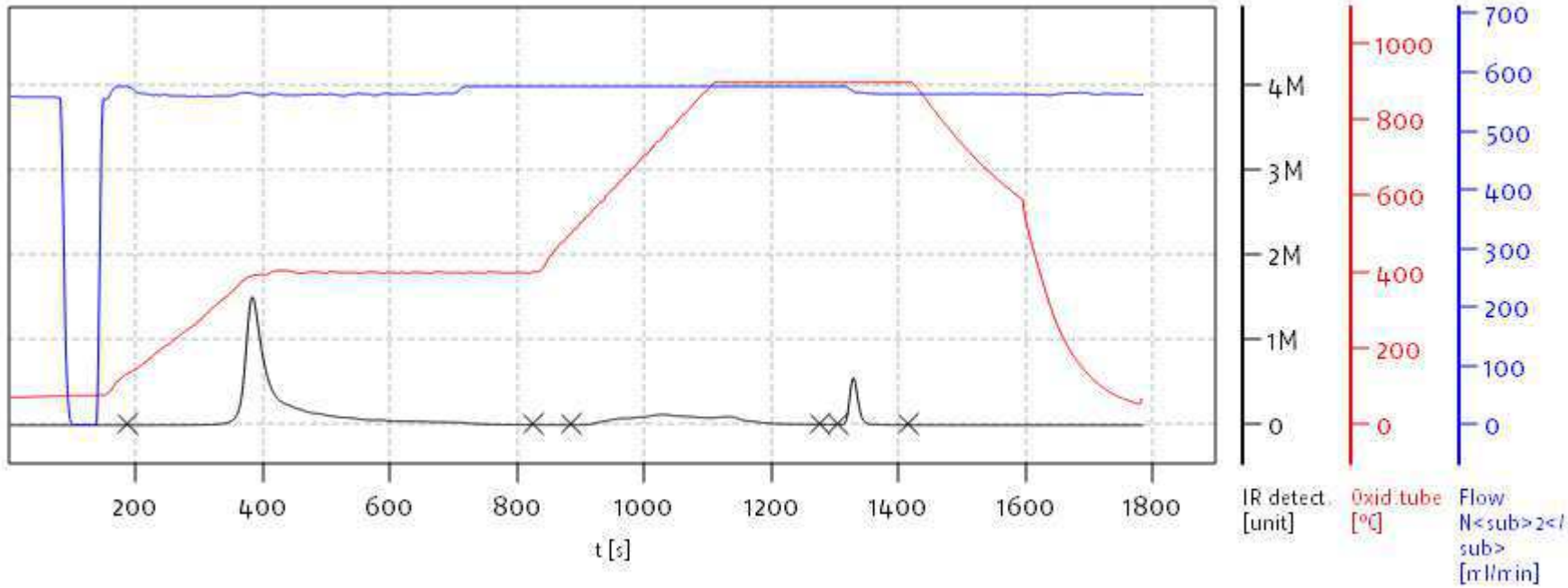
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	22L0199-25	505.80		CARBON	12/21/2022 8:03 PM	bl	0.979	2 963 528	1.244	0.095	336 404	891 802	0.884	0.265	0.9838	1.0000



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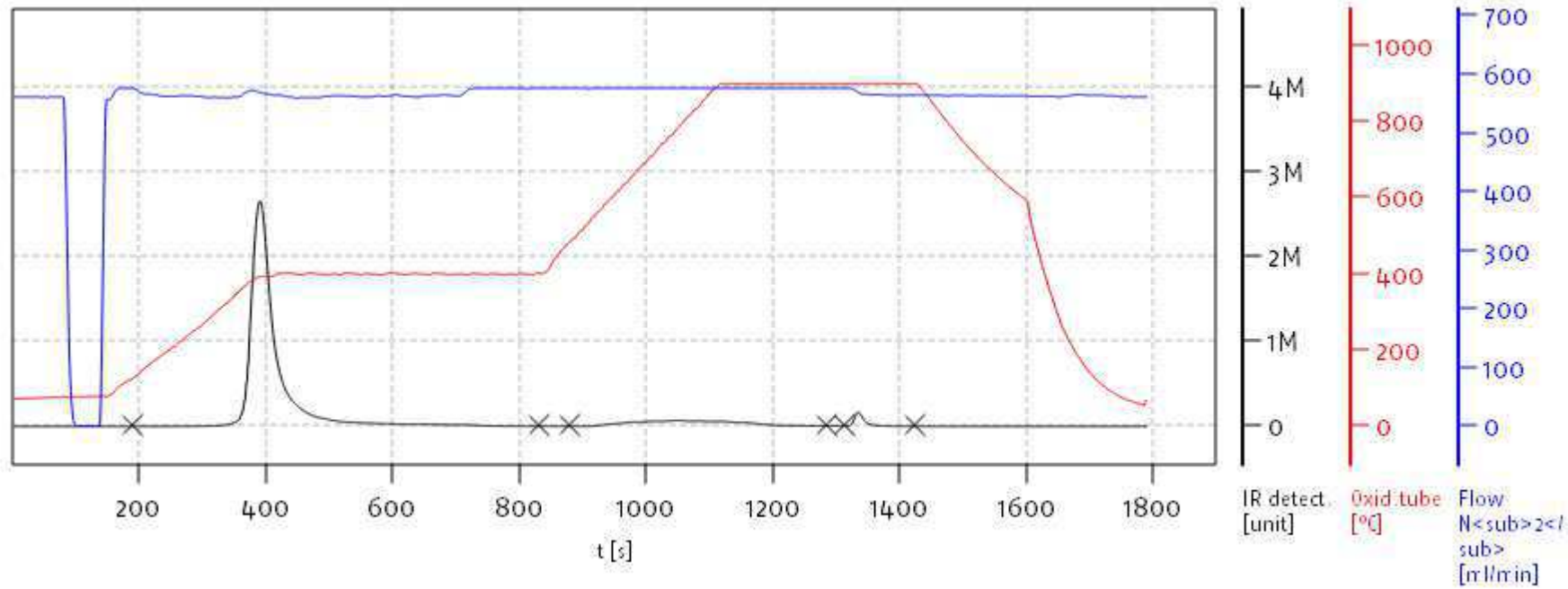
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	22L0199-26	526.90		CARBON	12/21/2022 8:33 PM	bl	1.282	4 372 416	1.431	0.026	115 757	532 484	1.256	0.149	0.9838	1.0000



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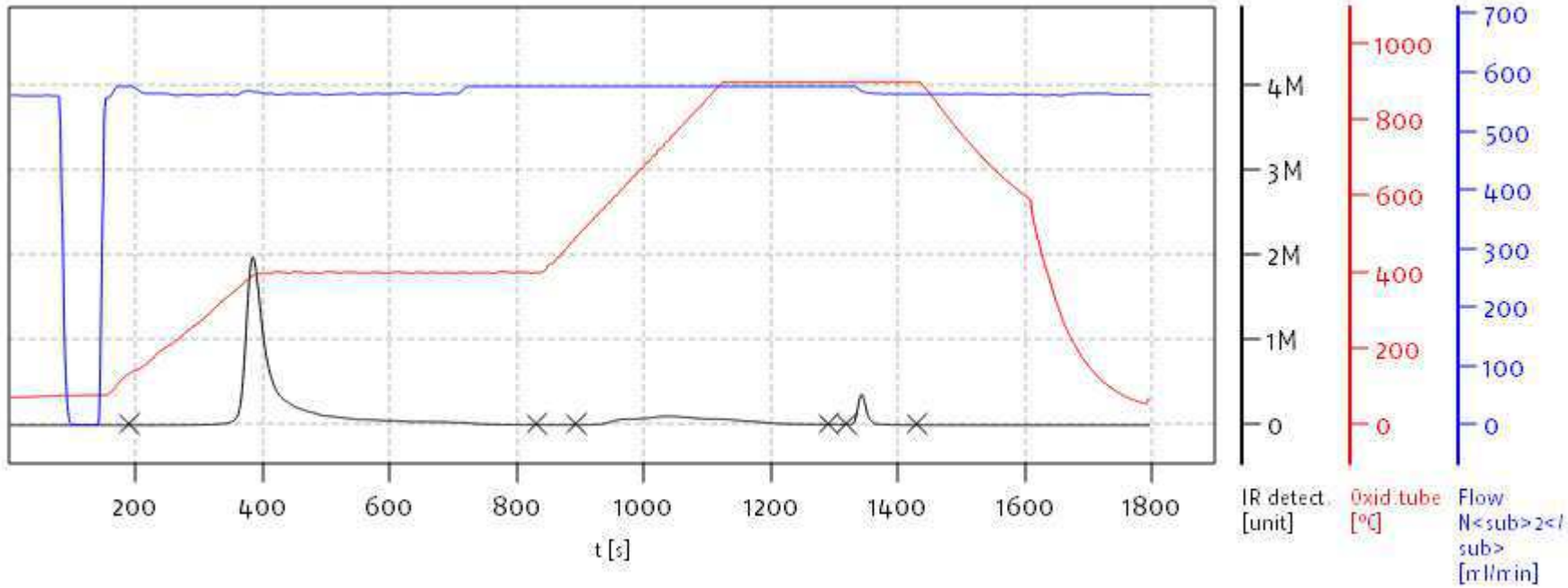
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	22L0199-27	506.10		CARBON	12/21/2022 9:04 PM	bl	1.119	3 543 571	1.339	0.061	226 250	743 825	1.058	0.219	0.9838	1.0000



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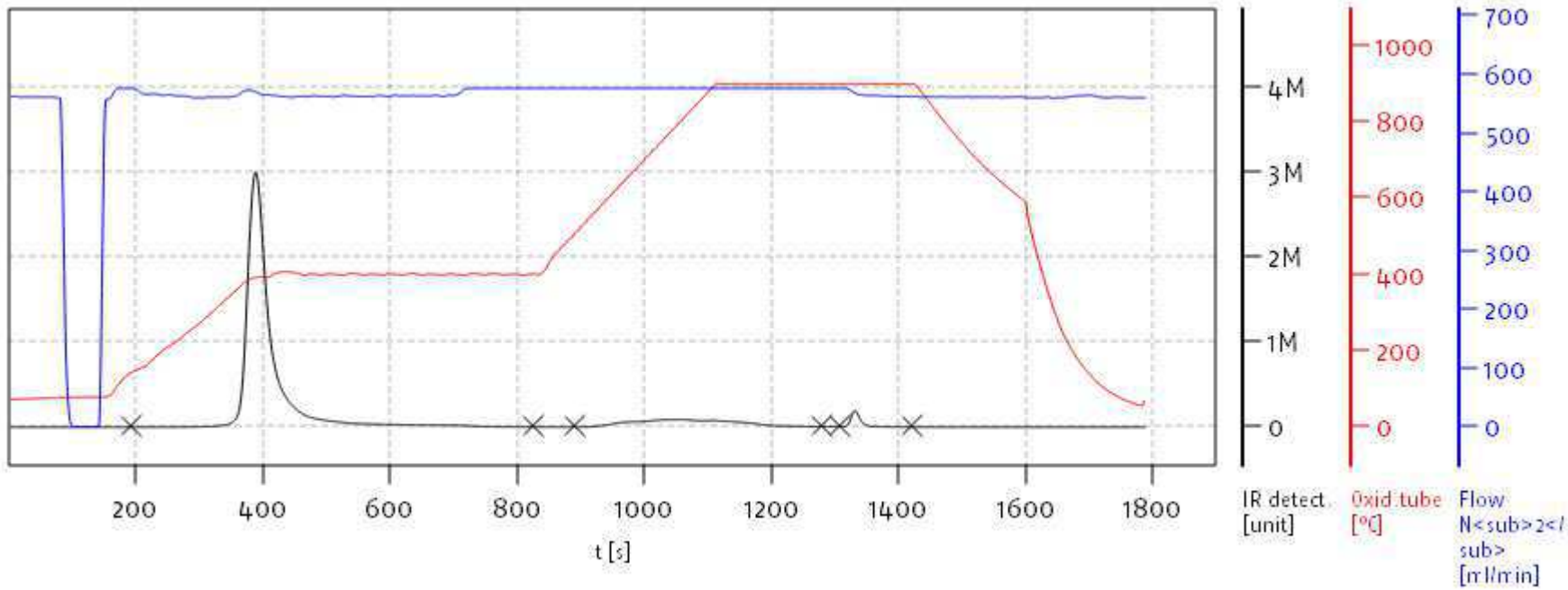
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	22L0199-28	563.50		CARBON	12/21/2022 9:34 PM	bl	1.298	4 726 229	1.475	0.028	128 841	669 867	1.270	0.177	0.9838	1.0000



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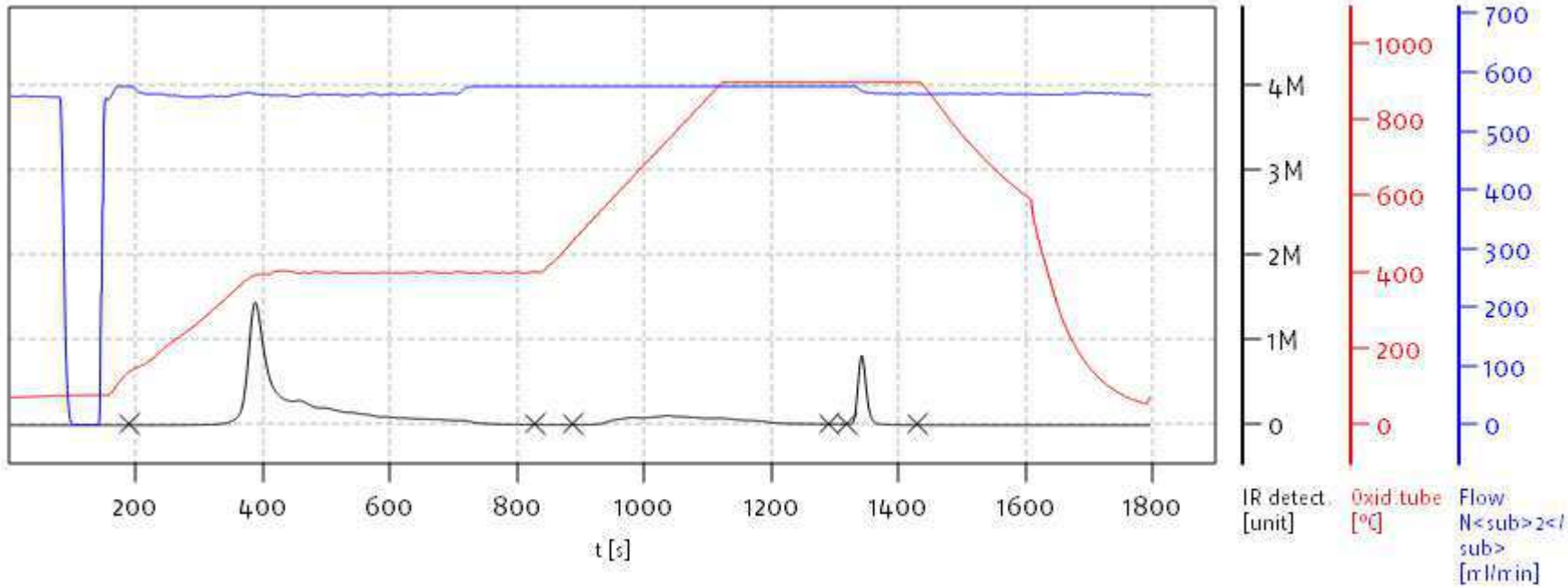
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	22L0199-29	534.00		CARBON	12/21/2022 10:04 PM	bl	1.115	3 471 461	1.350	0.132	483 060	838 929	0.983	0.236	0.9838	1.0000



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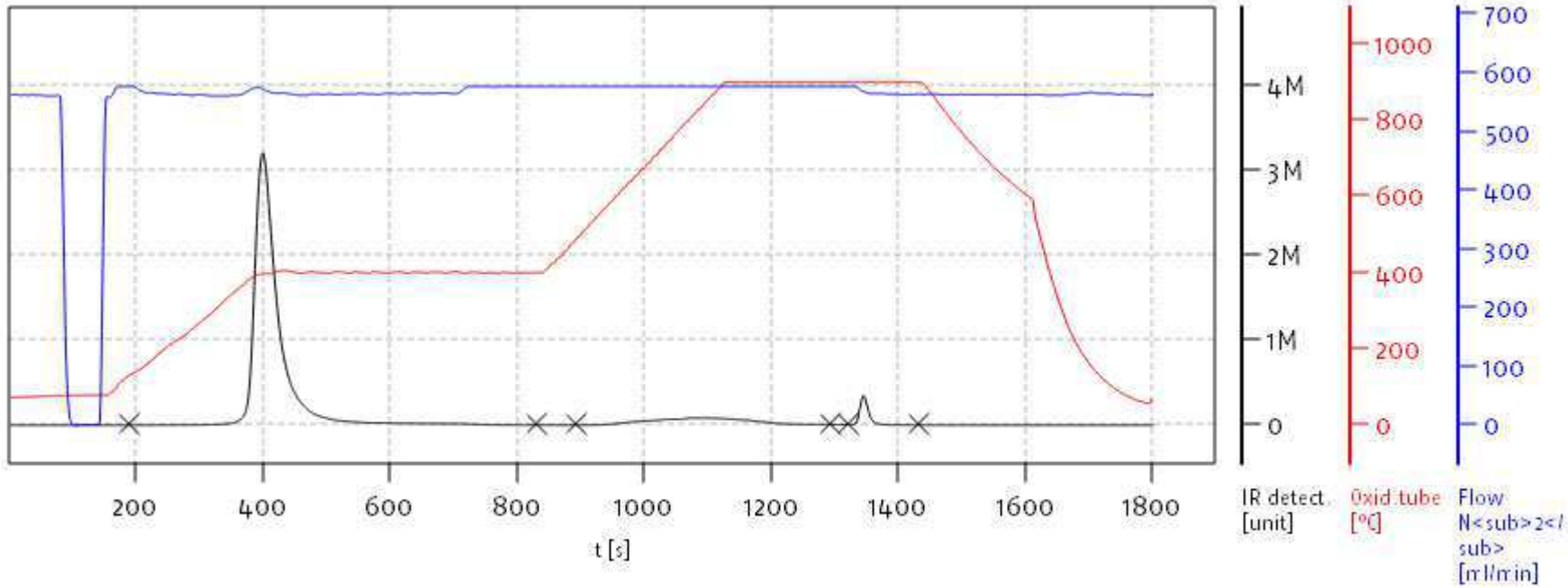
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	22L0199-30	513.60		CARBON	12/21/2022 10:35 PM	bl	1.575	5 150 935	1.750	0.056	210 698	607 595	1.520	0.175	0.9838	1.0000



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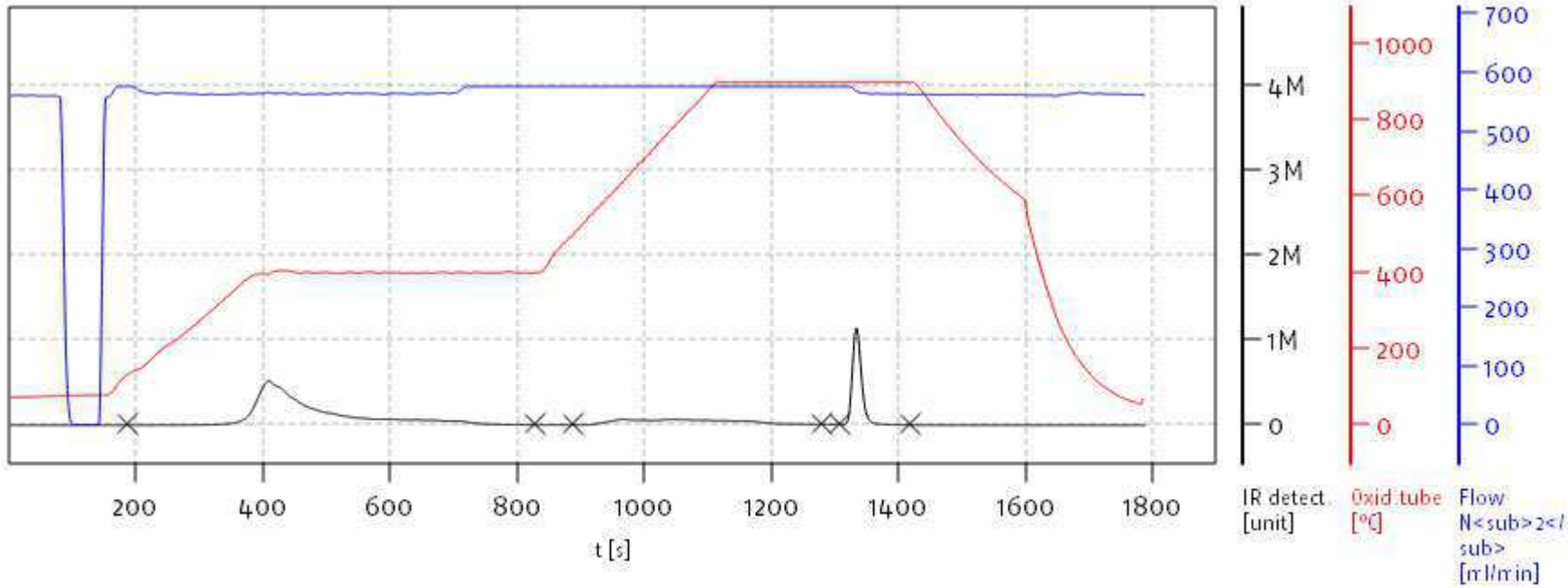
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	22L0199-31	545.70		CARBON	12/21/2022 11:05 PM	bl	0.790	2 151 975	0.950	0.197	721 946	588 628	0.593	0.159	0.9838	1.0000



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Access: soliTOC superuser

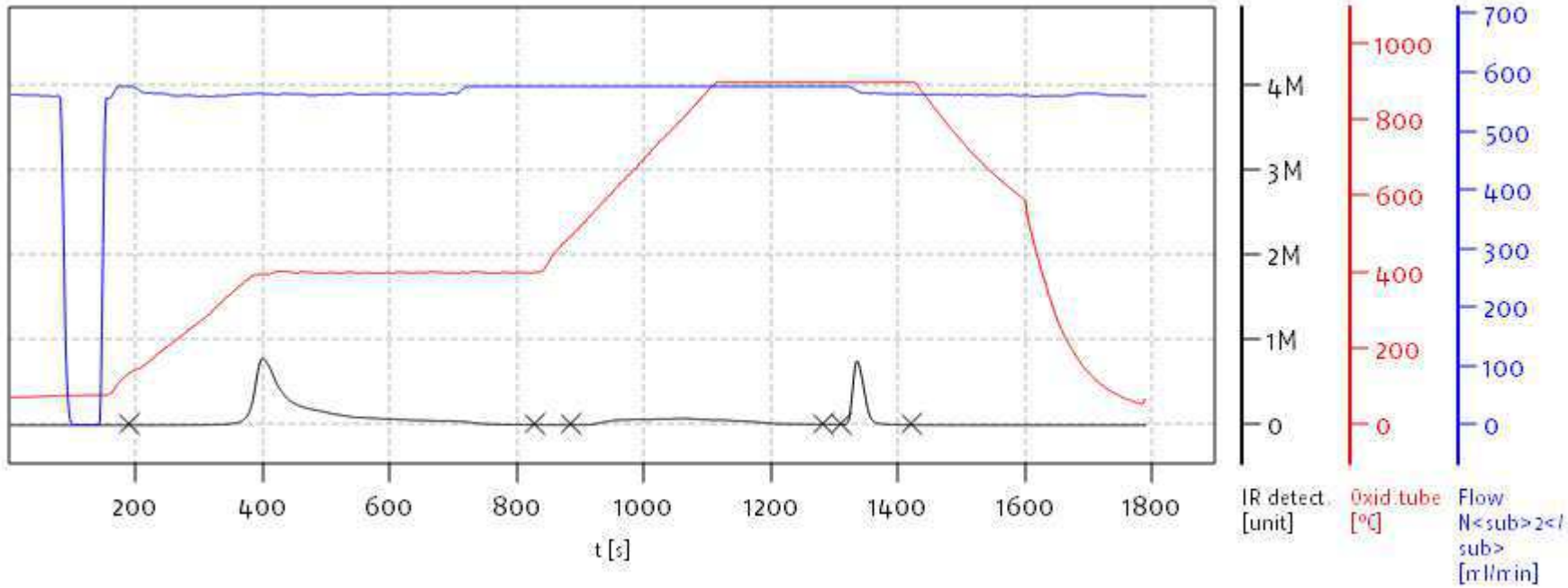
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0199-32	510.00		CARBON	12/21/2022 11:35 PM	bl	0.887	2 413 973	1.074	0.174	599 861	643 330	0.713	0.187	0.9838	1.0000



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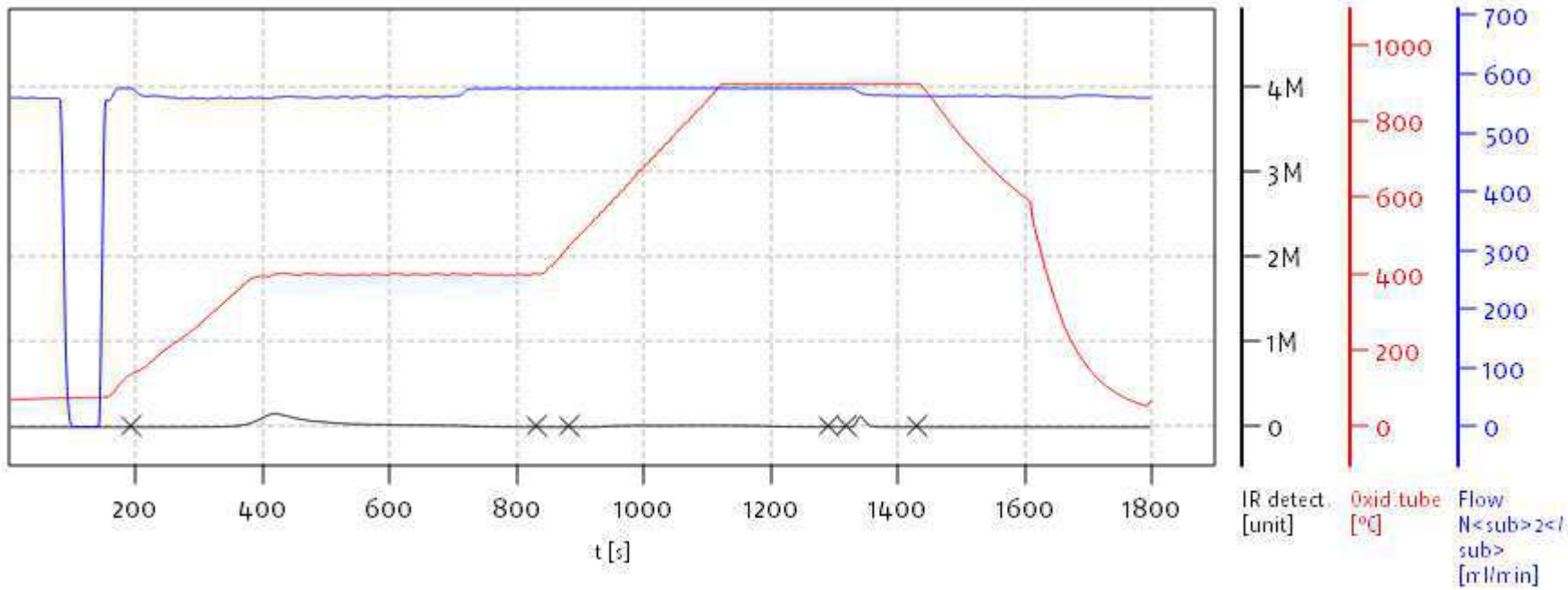
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0199-33	501.20		CARBON	12/22/2022 12:05 AM	bl	0.234	745 122	0.281	0.015	75 643	179 059	0.218	0.047	0.9838	1.0000



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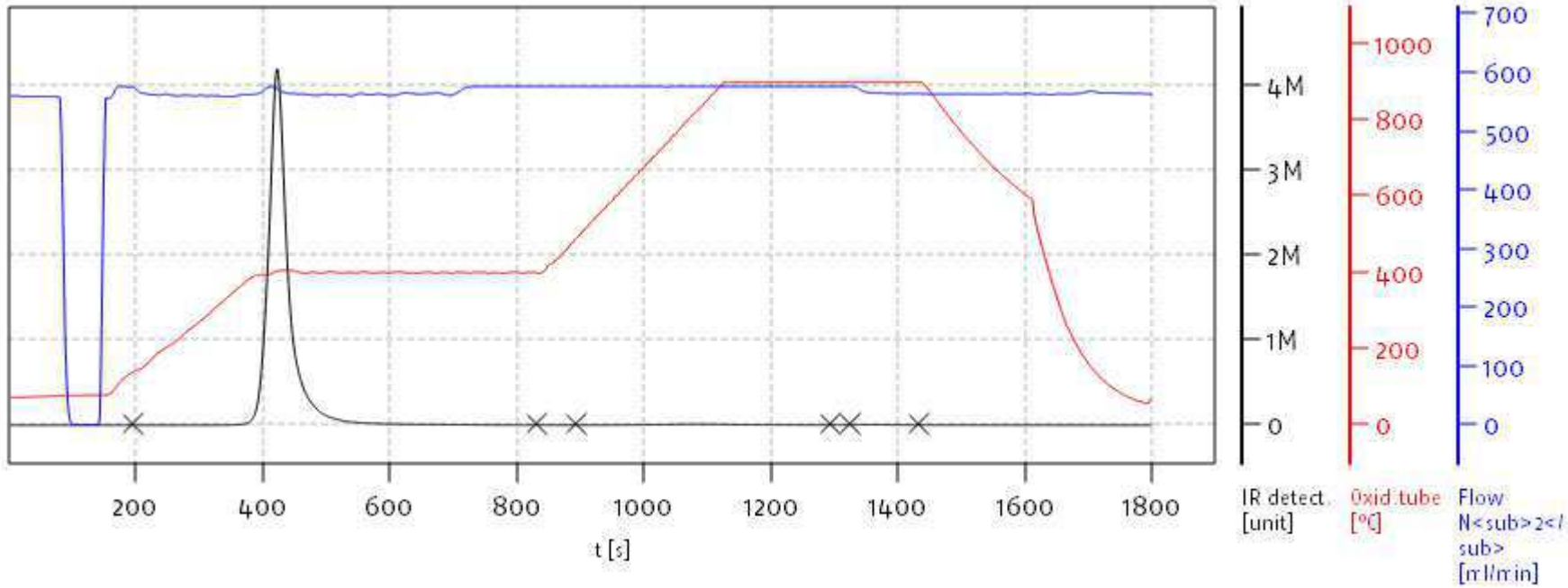
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0276-CCV2	19.80		CARBON	12/22/2022 12:36 AM	bl	43.991	5 745 536	44.396	0.000	16 951	78 395	43.991	0.405	0.9838	1.0000



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Balance: BAL3
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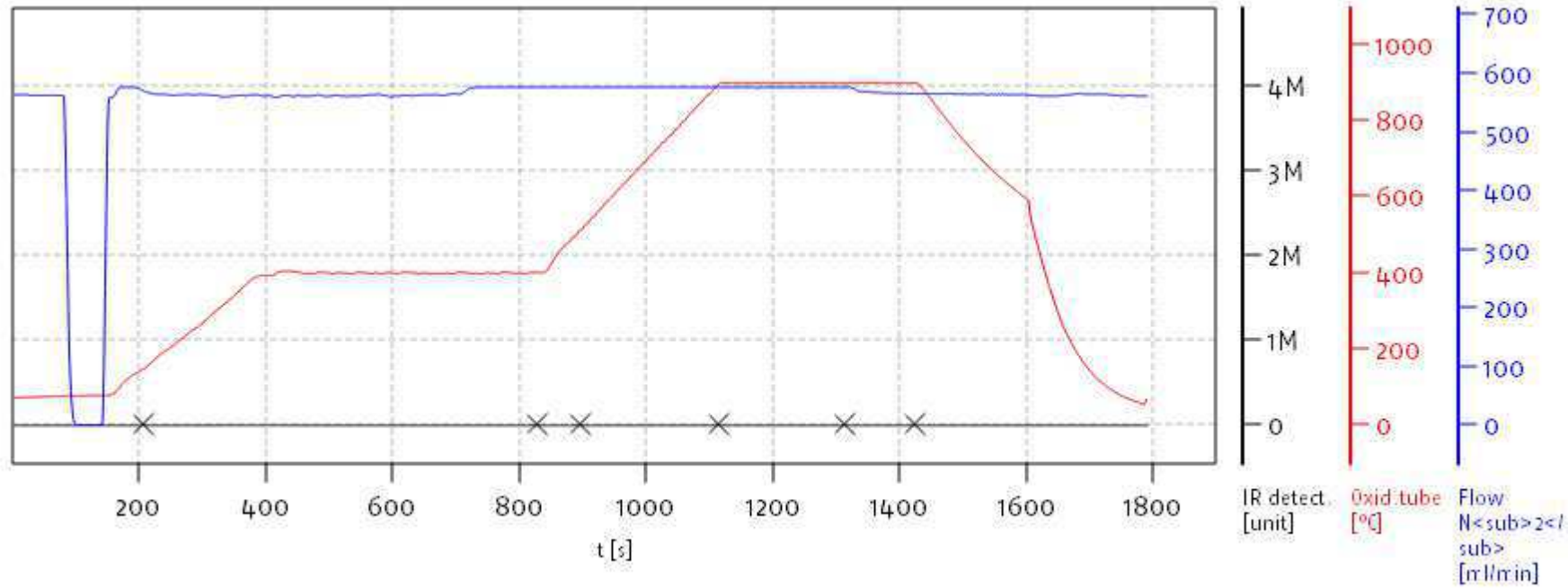
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0276-CCB2	527.10		CARBON	12/22/2022 1:06 AM	bl,C3u,C2u	0.000	4 617	0.000	0.000	477	629	0.000	0.000	0.9838	1.0000



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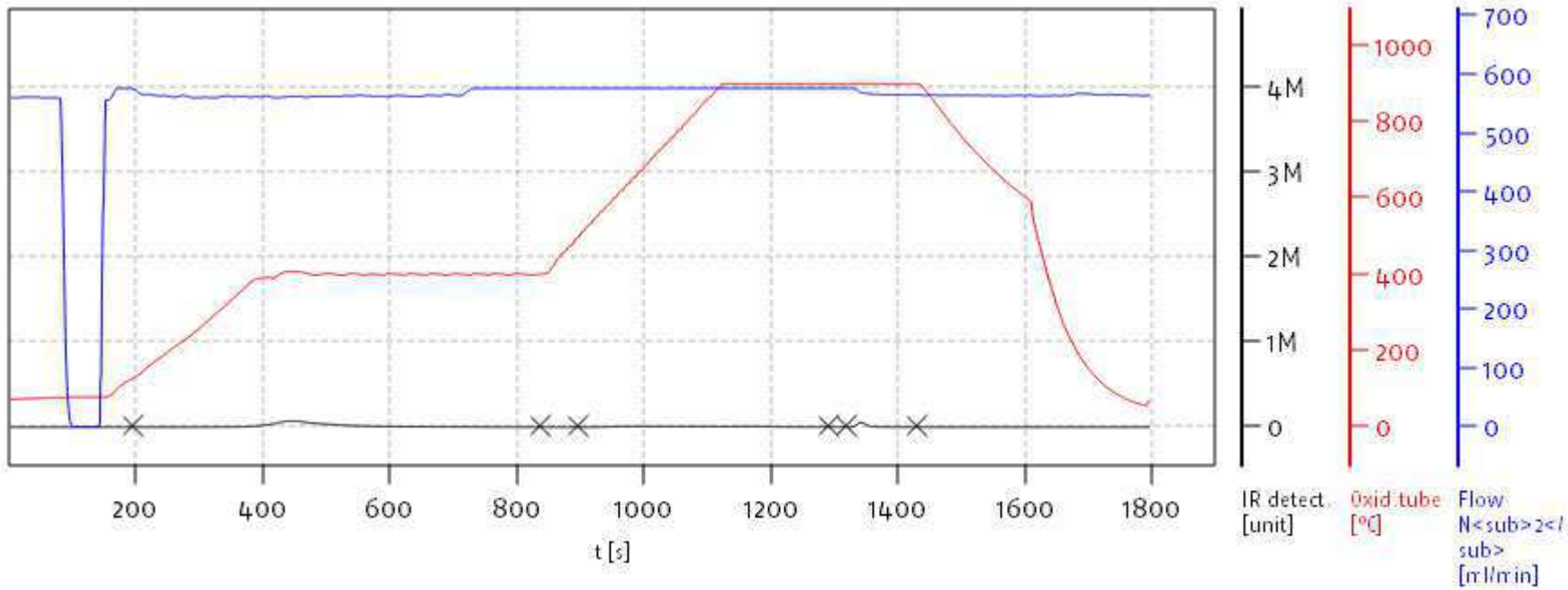
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0199-34	608.00		CARBON	12/22/2022 1:36 AM	bl	0.072	300 942	0.086	0.003	37 396	83 042	0.069	0.014	0.9838	1.0000



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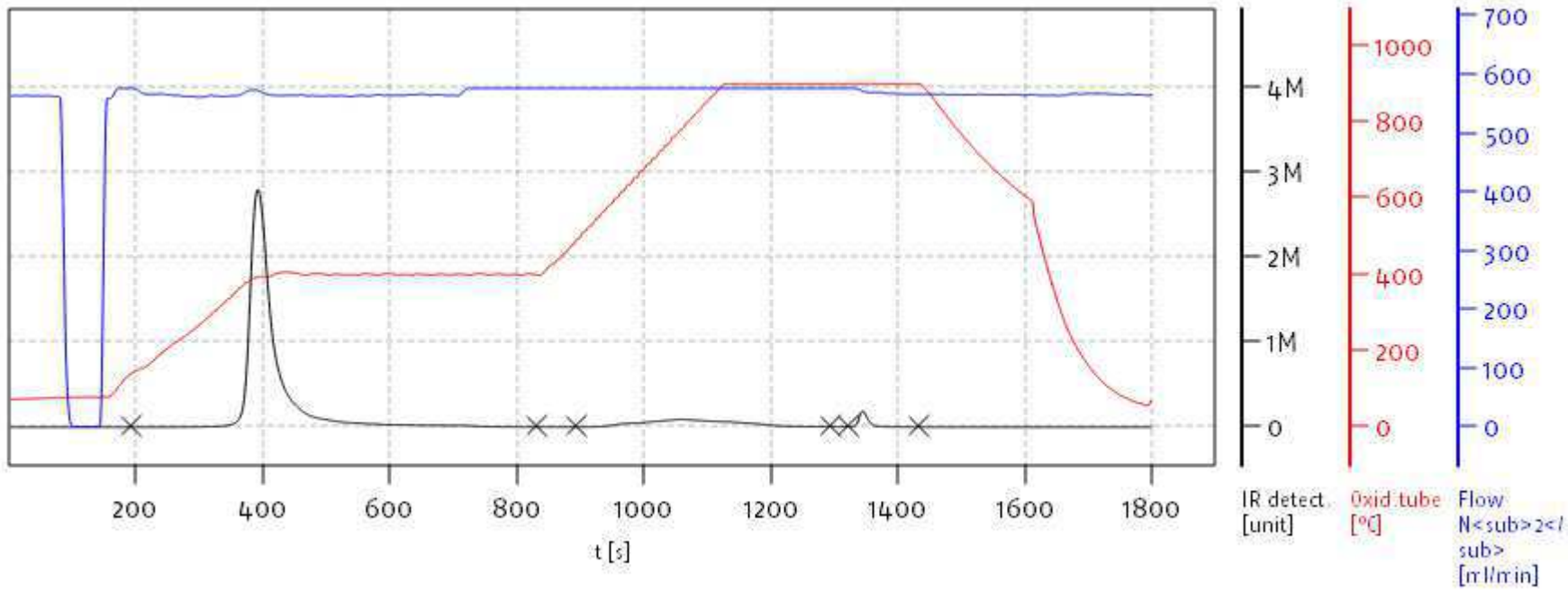
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0199-35	564.60		CARBON	12/22/2022 2:07 AM	bl	1.242	4 533 495	1.399	0.026	123 180	599 601	1.216	0.157	0.9838	1.0000



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Balance: BAL3
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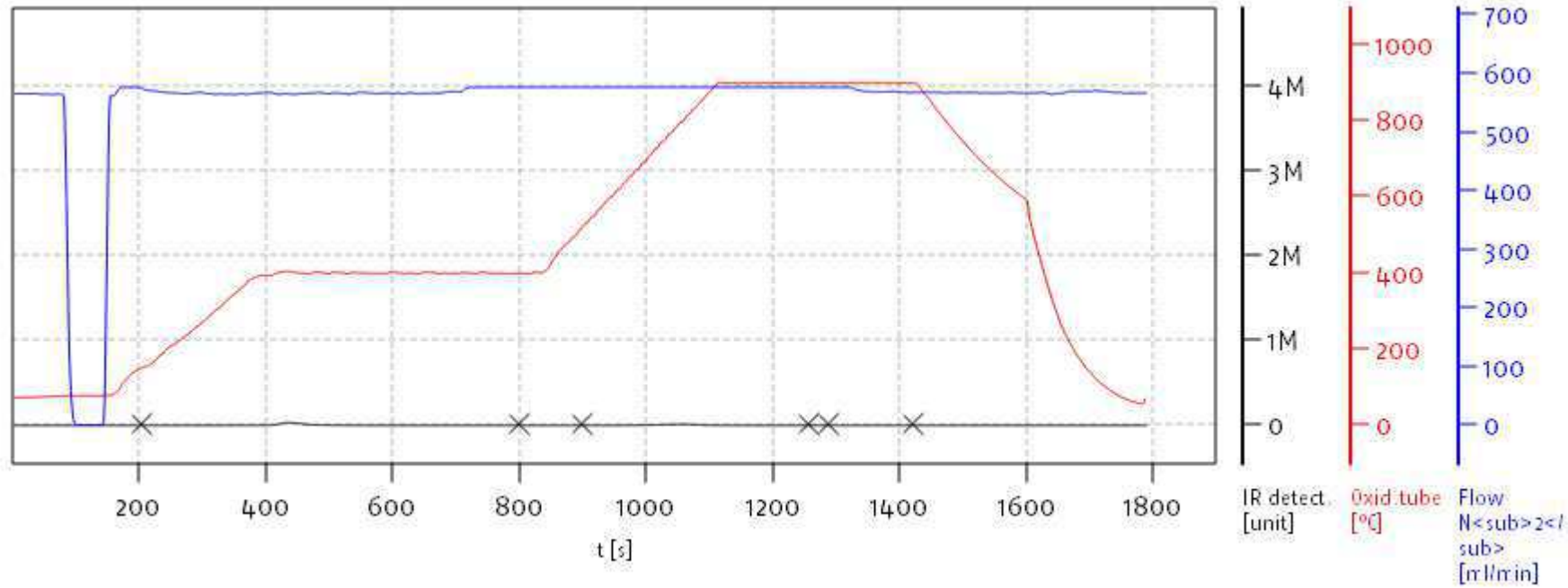
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	BKL0471-MRL1	532.80		CARBON	12/22/2022 2:37 AM	bl,C2u	0.010	60 188	0.012	0.000	275	34 828	0.010	0.002	0.9838	1.0000



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Balance: BAL3
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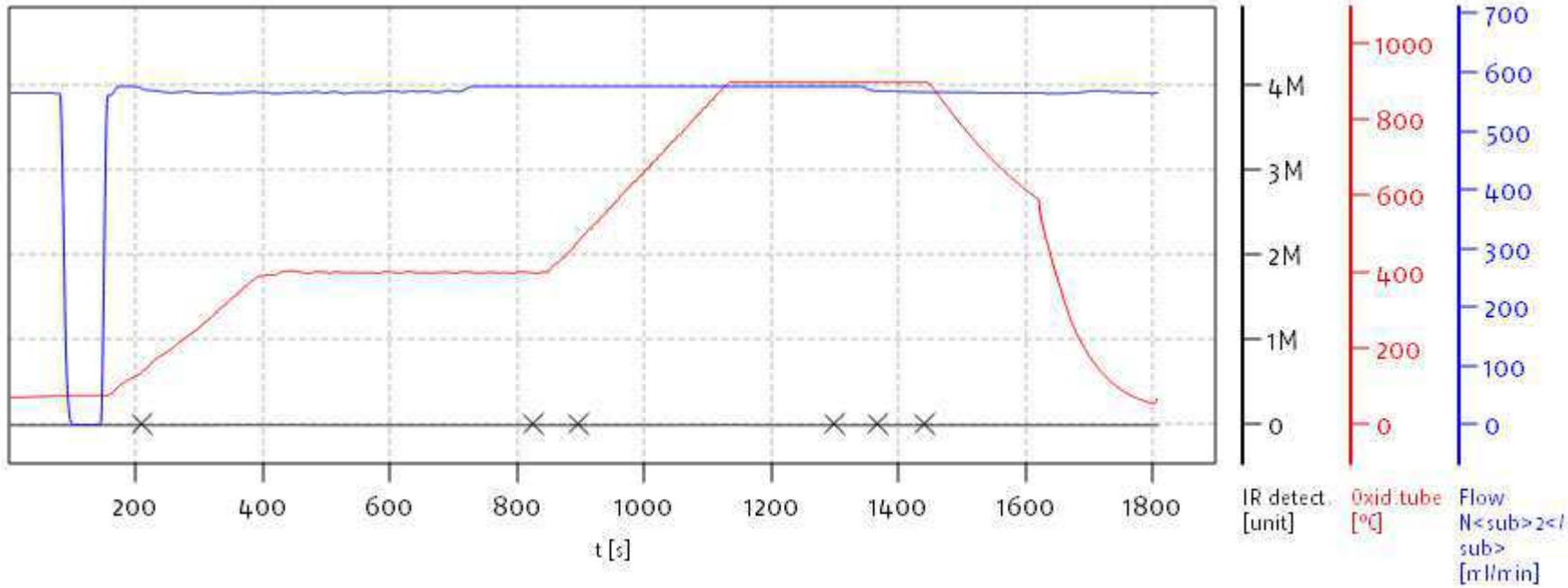
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	BKL0471-BLK1	523.70		CARBON	12/22/2022 3:08 AM	bl,C2u	0.000	10 104	0.000	0.000	187	7 591	0.000	0.000	0.9838	1.0000



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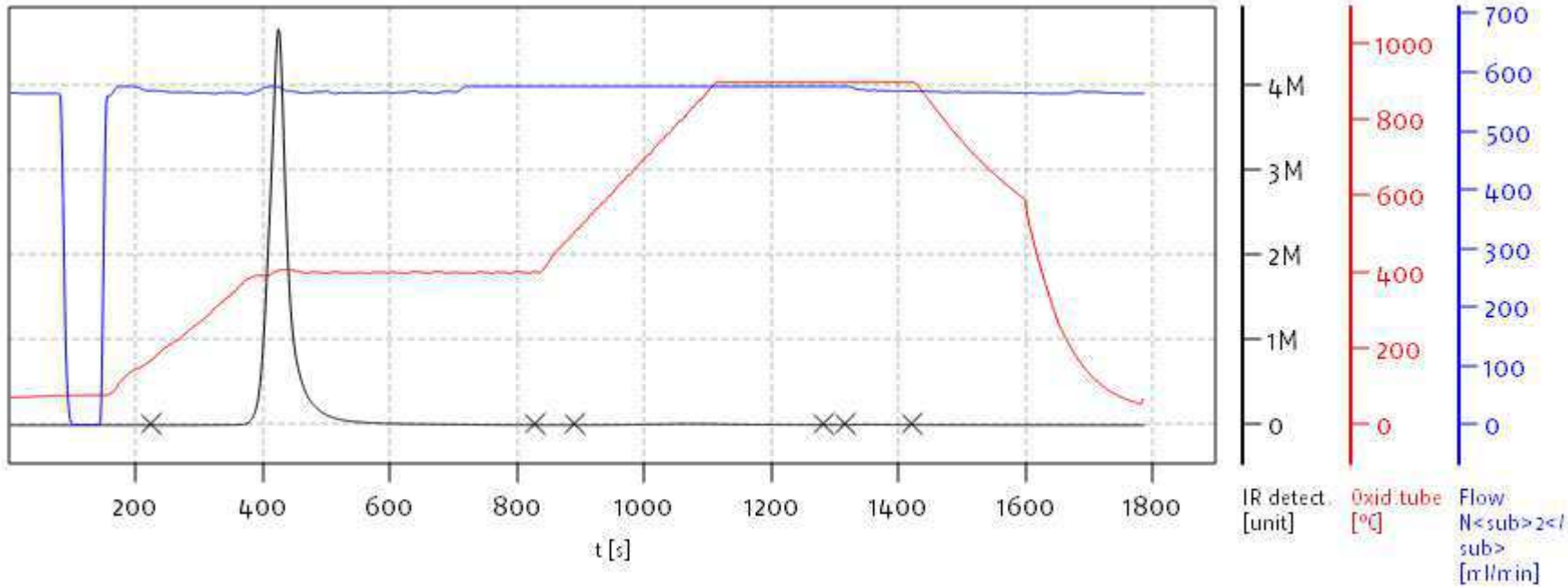
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	BKL0471-BS1	21.40		CARBON	12/22/2022 3:38 AM	bl	43.971	6 204 969	44.543	0.000	19 777	105 587	43.971	0.572	0.9838	1.0000



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Balance: BAL3
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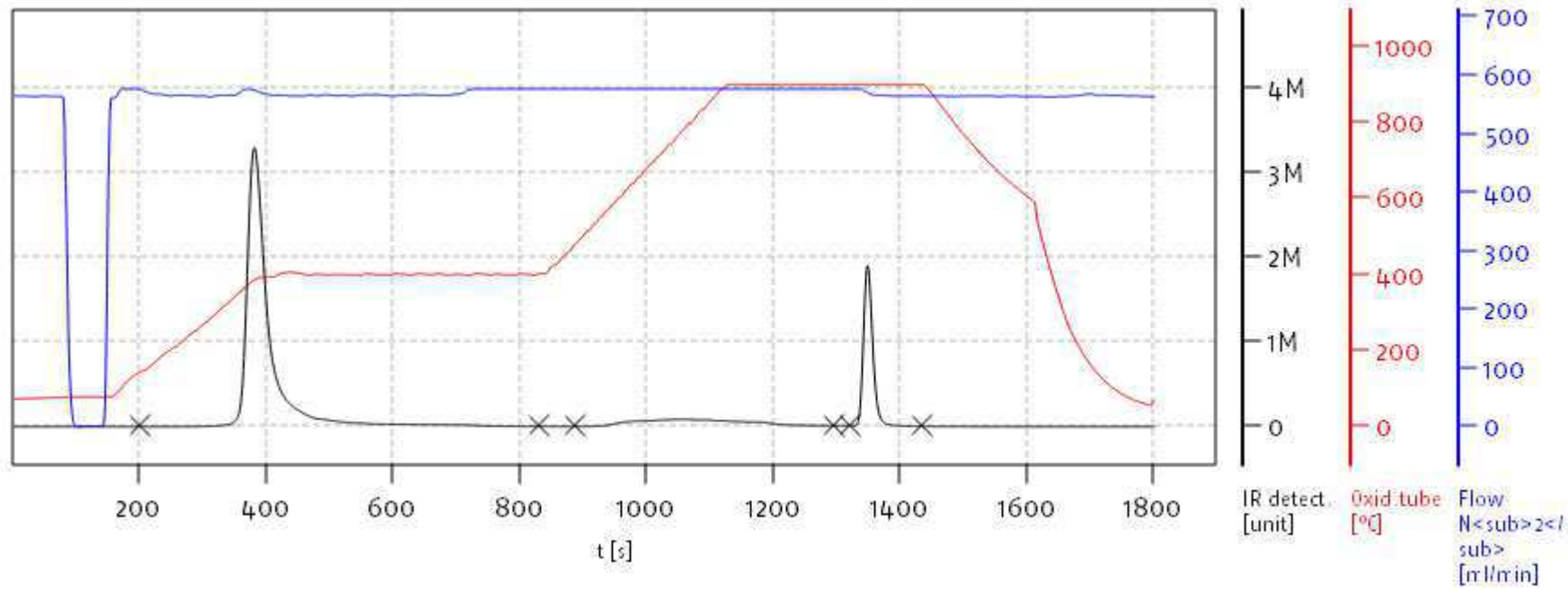
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	BKL0471-SRM1	311.40		CARBON	12/22/2022 4:08 AM	bl	2.952	4 841 628	3.291	0.597	1 227 540	708 765	2.355	0.339	0.9838	1.0000



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Date: Sat Dec 24 09:27:56 2022

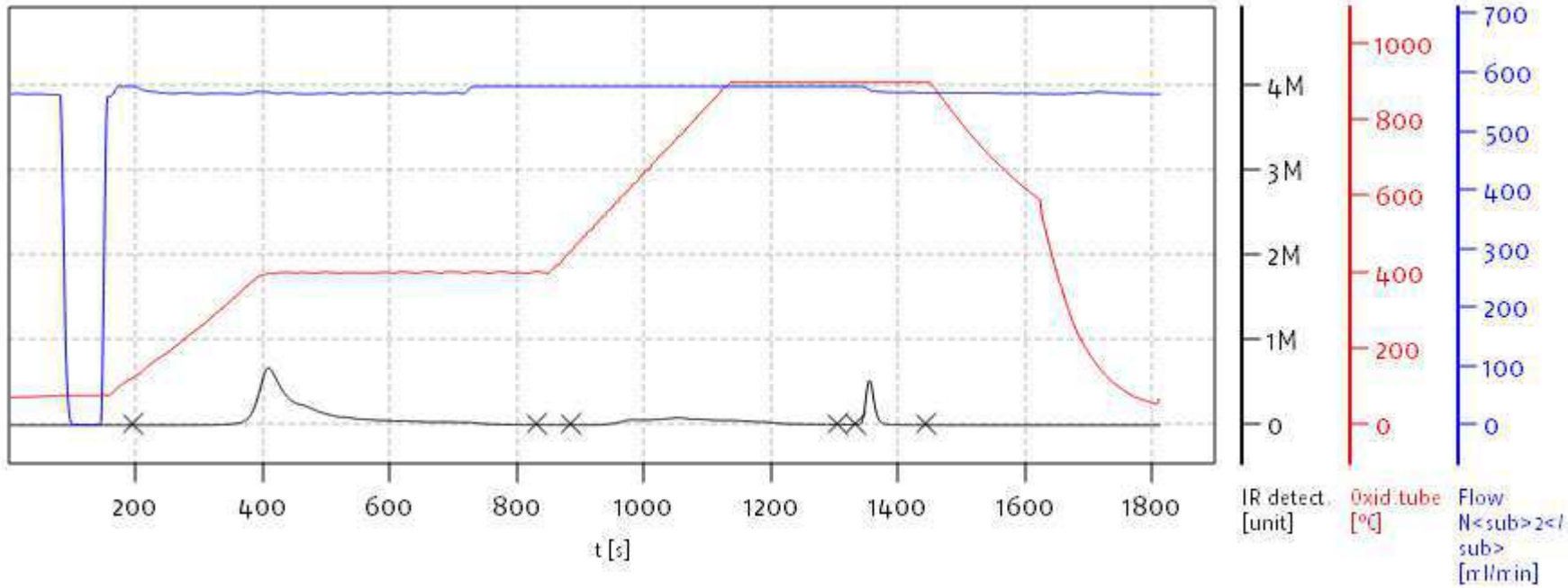
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22L0199-36	520.20		CARBON	12/22/2022 4:39 AM	bl	0.689	2 087 369	0.863	0.086	314 826	610 490	0.603	0.174	0.9838	1.0000



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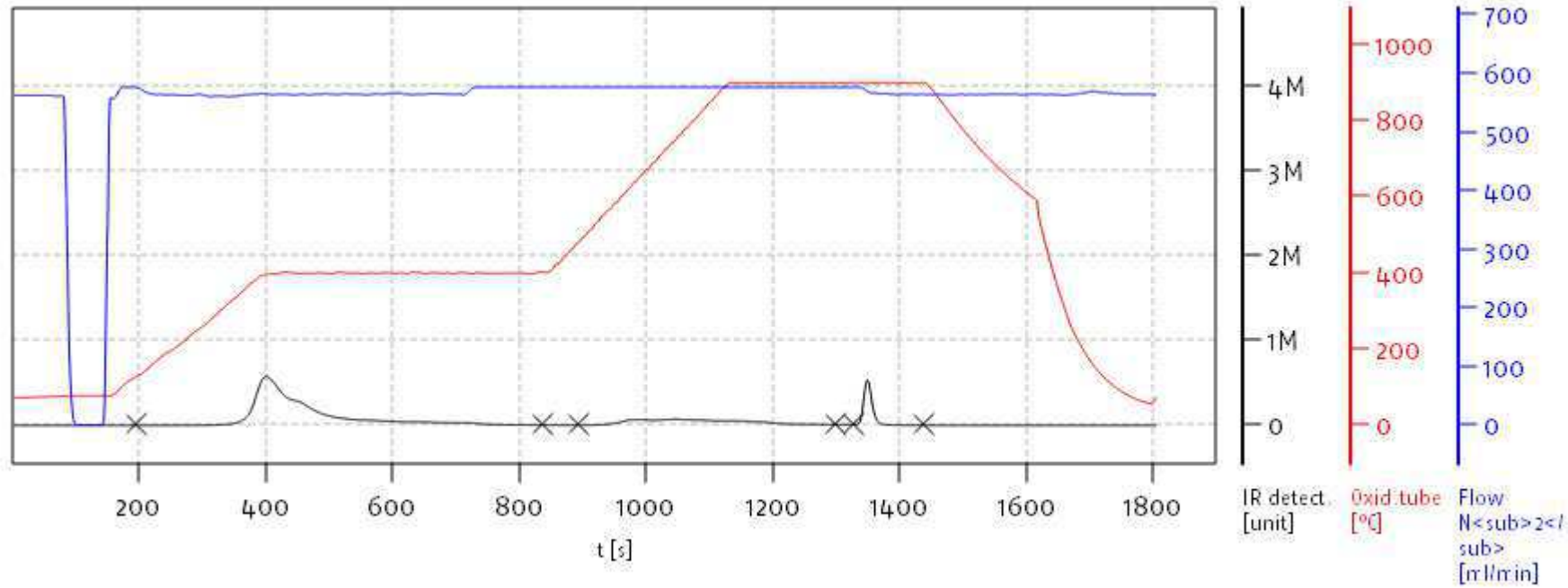
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	BKL0471-DUP1	514.90		CARBON	12/22/2022 5:09 AM	bl	0.686	2 050 614	0.860	0.087	316 893	605 048	0.599	0.174	0.9838	1.0000



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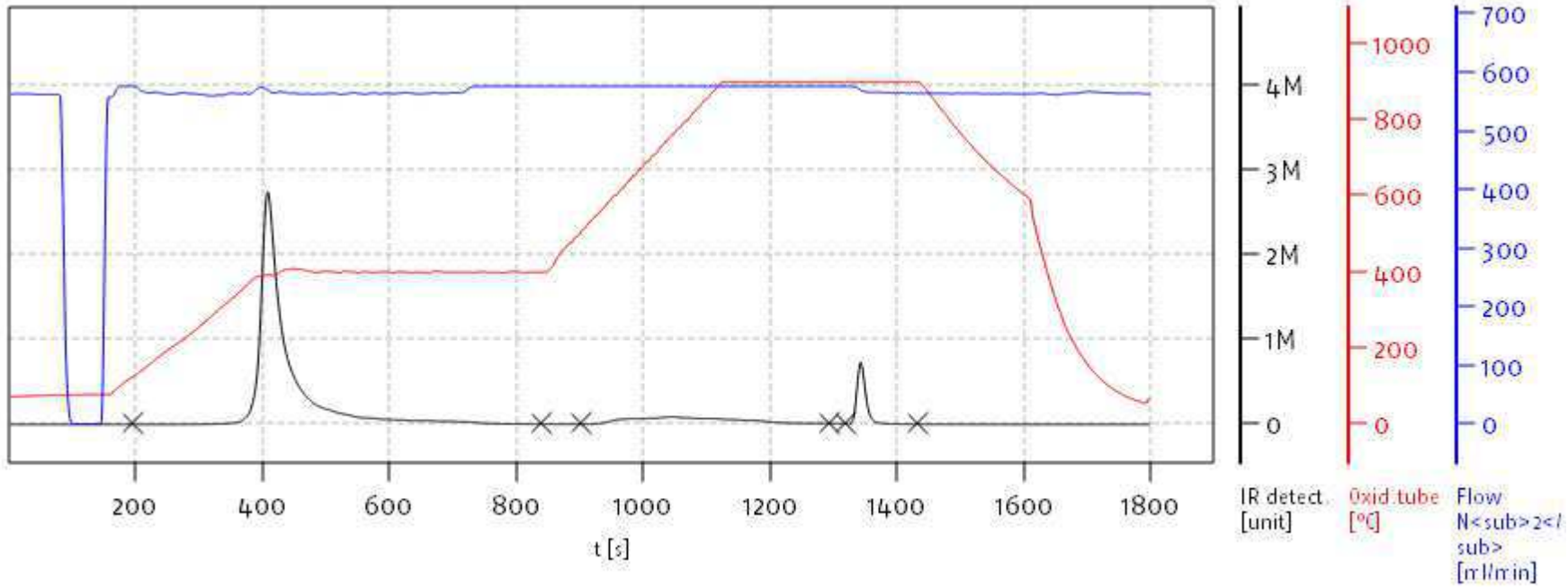
elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	BKL0471-MS1	511.10	0.0090	CARBON	12/22/2022 5:40 AM	bl	1.522	4 698 692	1.723	0.130	454 878	689 063	1.392	0.201	0.9838	1.0000



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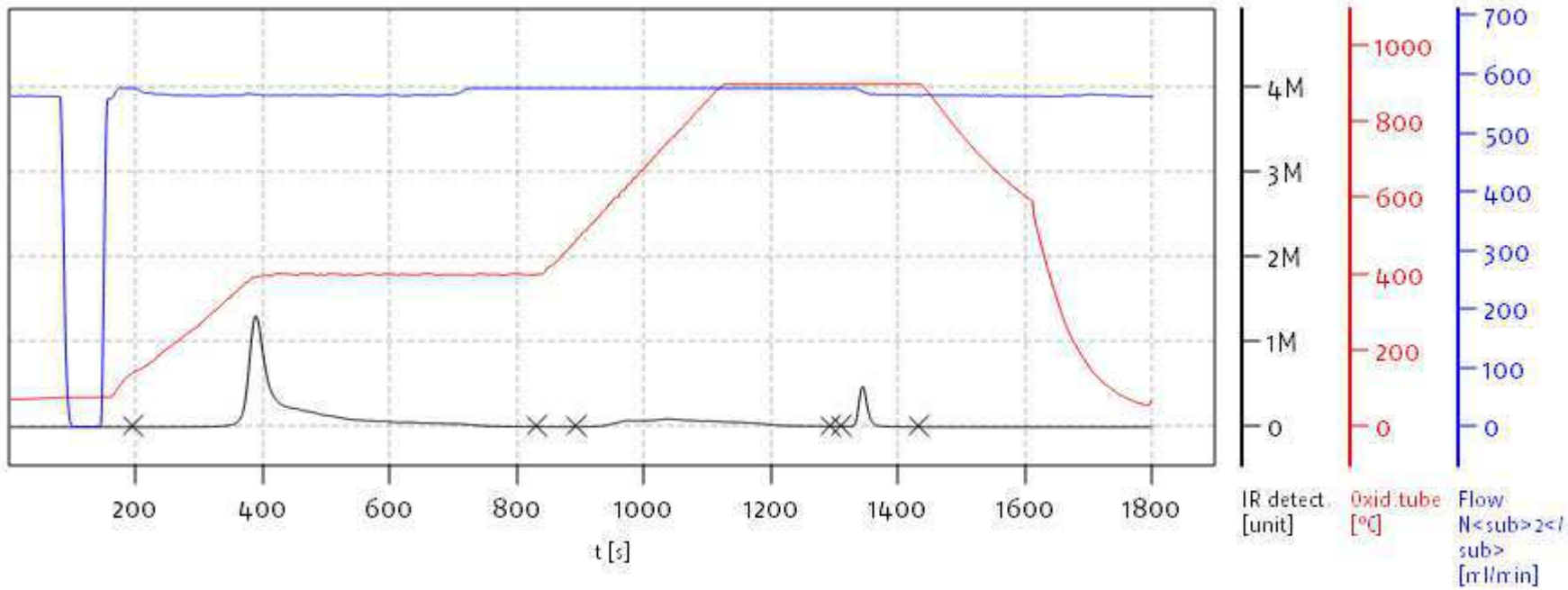
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22L0199-37	503.70		CARBON	12/22/2022 6:10 AM	bl	0.902	2 737 092	1.112	0.083	295 148	710 697	0.820	0.210	0.9838	1.0000



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Balance: BAL3
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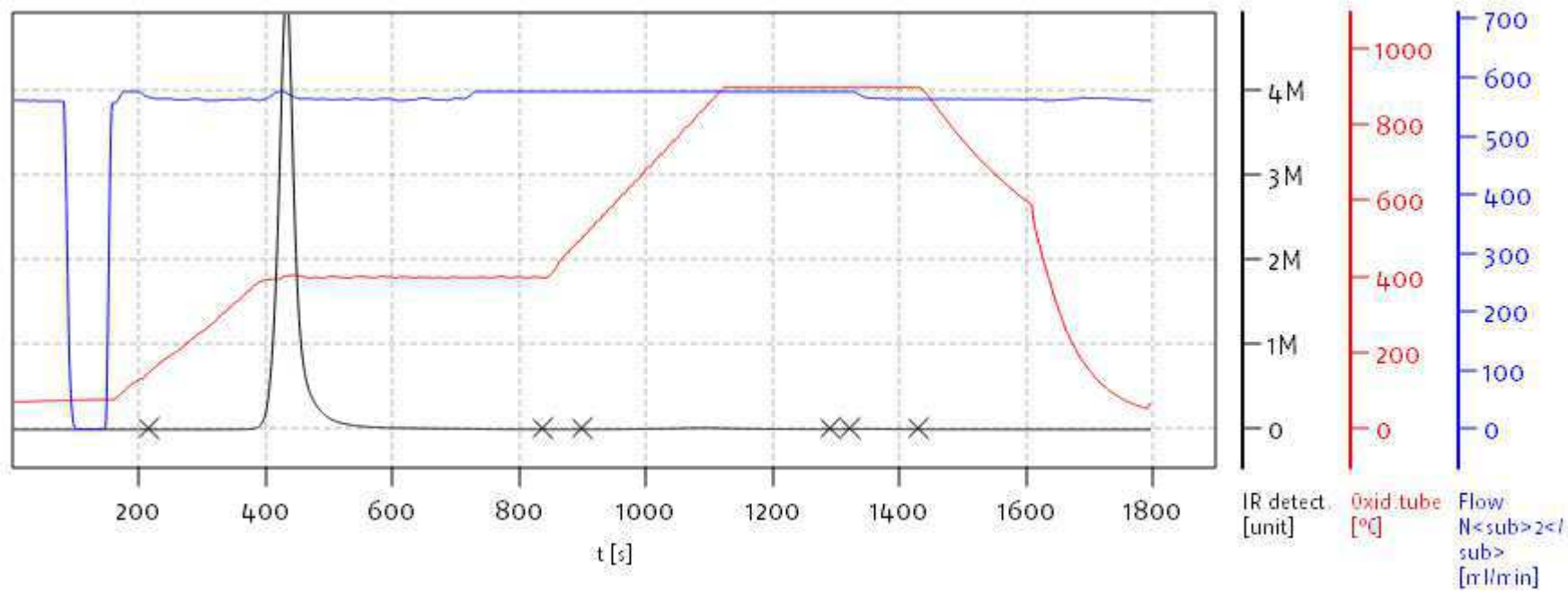
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0276-CCV3	21.60		CARBON	12/22/2022 6:40 AM	bl	44.461	6 332 177	45.096	0.000	19 592	115 076	44.461	0.635	0.9838	1.0000



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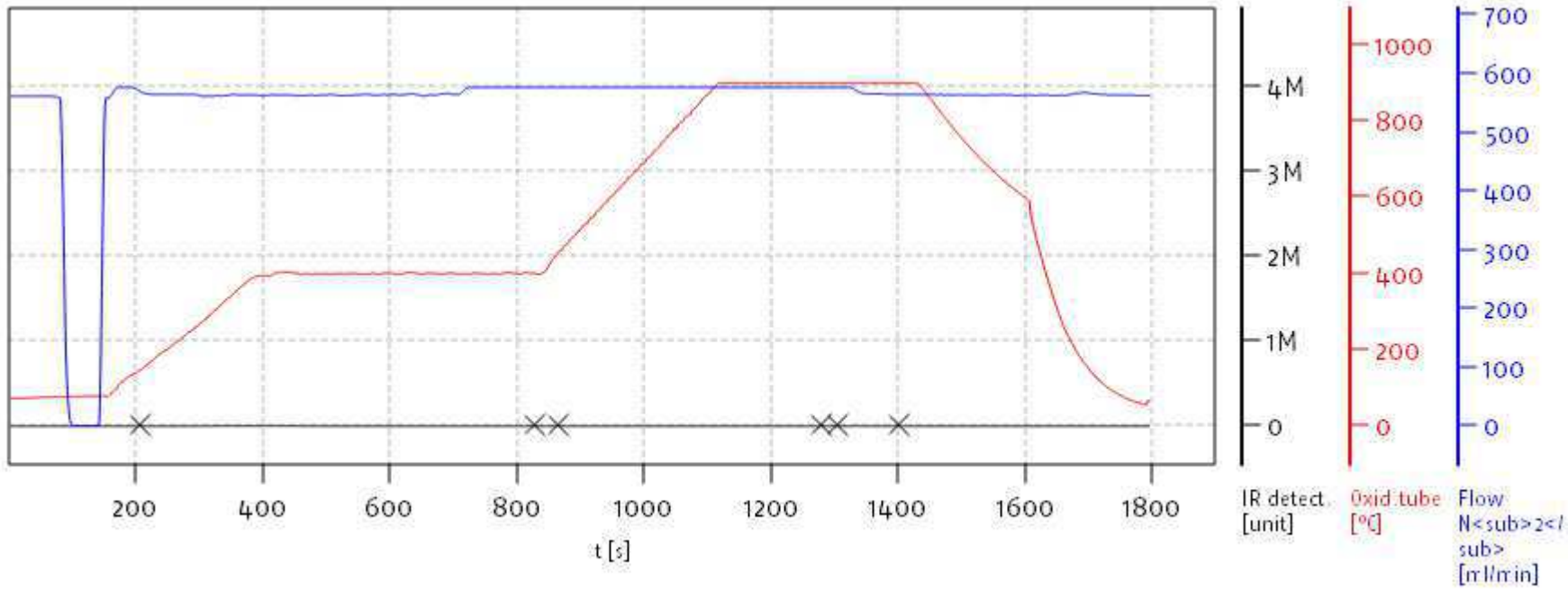
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0276-CCB3	504.30		CARBON	12/22/2022 7:11 AM	bl,C2u	0.000	17 145	0.000	0.000	1 797	2 928	0.000	0.000	0.9838	1.0000



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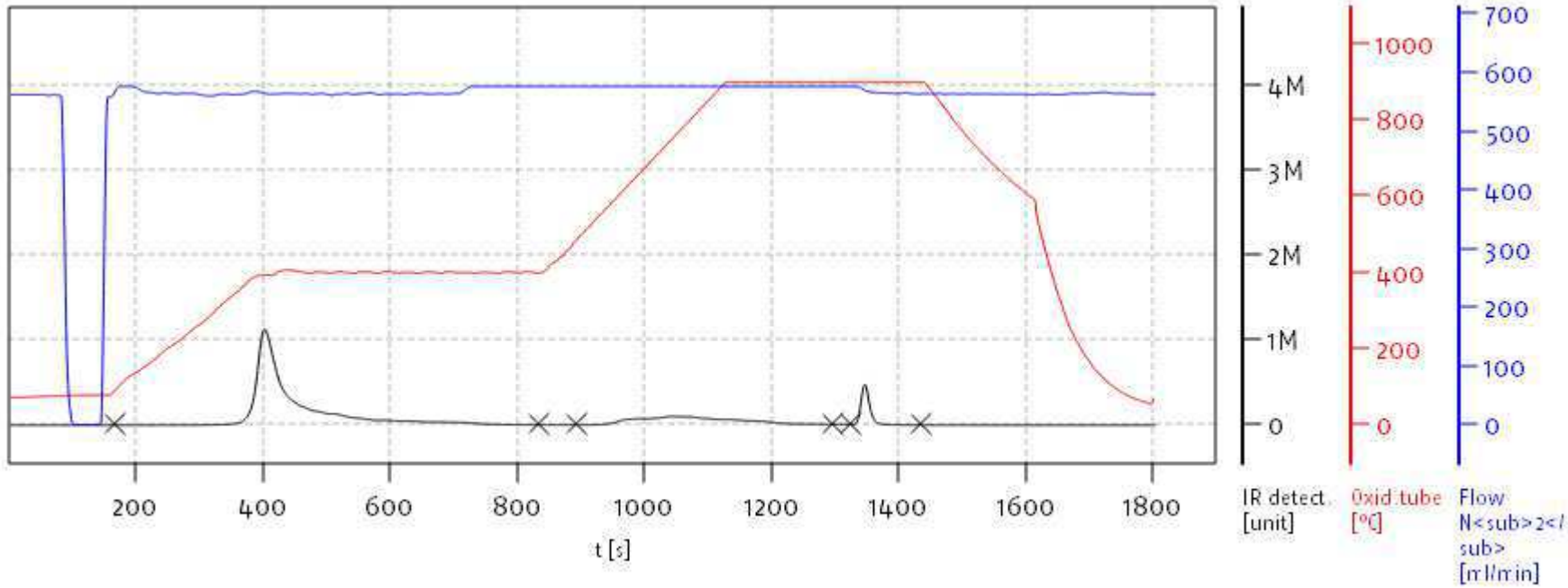
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0199-38	530.60		CARBON	12/22/2022 7:41 AM	bl	0.817	2 602 282	1.027	0.078	293 702	746 692	0.739	0.210	0.9838	1.0000



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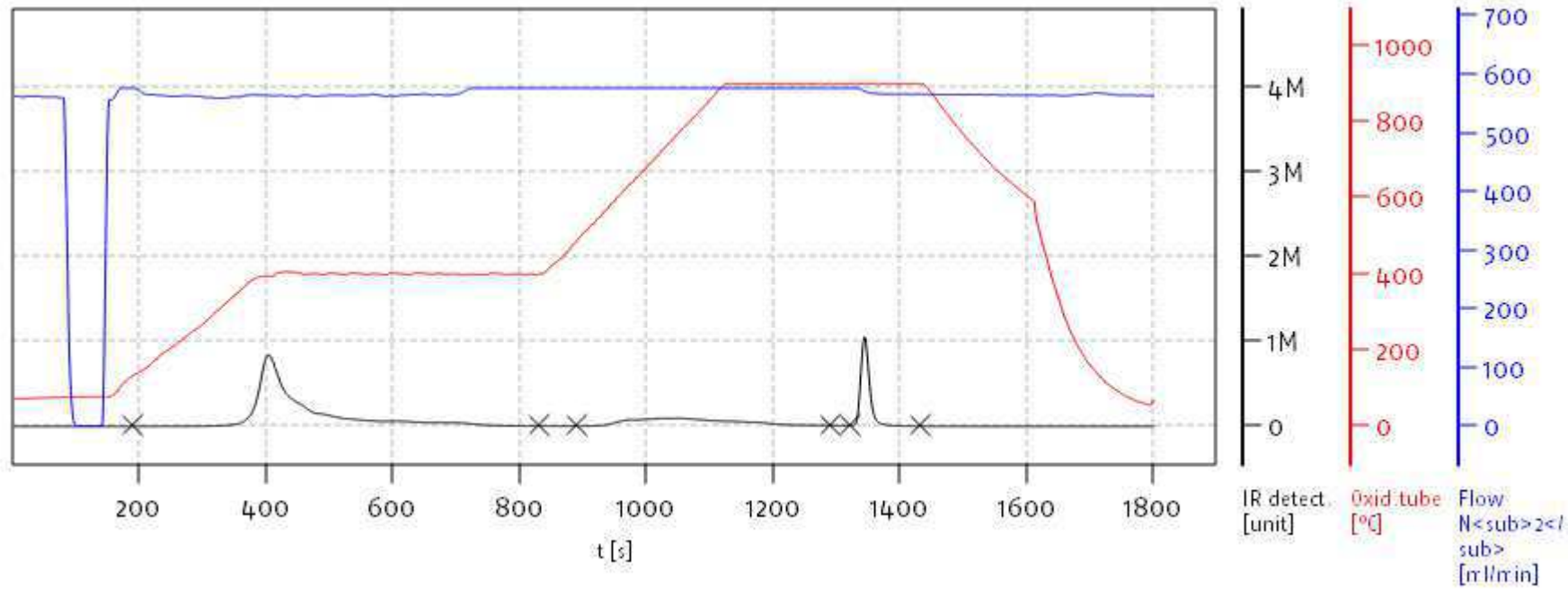
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22L0199-39	525.90		CARBON	12/22/2022 8:11 AM	bl	0.860	2 367 473	1.072	0.182	644 948	748 272	0.678	0.212	0.9838	1.0000



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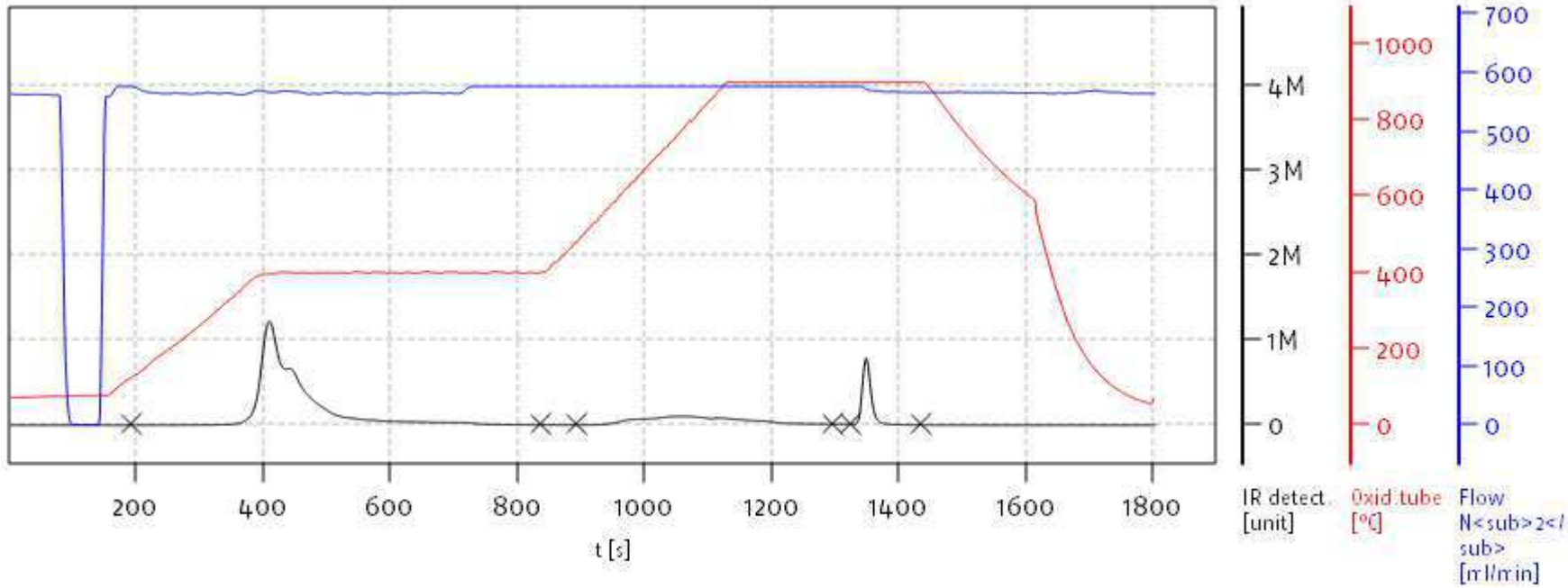
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22L0199-40	513.00		CARBON	12/22/2022 8:42 AM	bl	1.052	3 108 416	1.278	0.137	481 402	775 747	0.915	0.226	0.9838	1.0000



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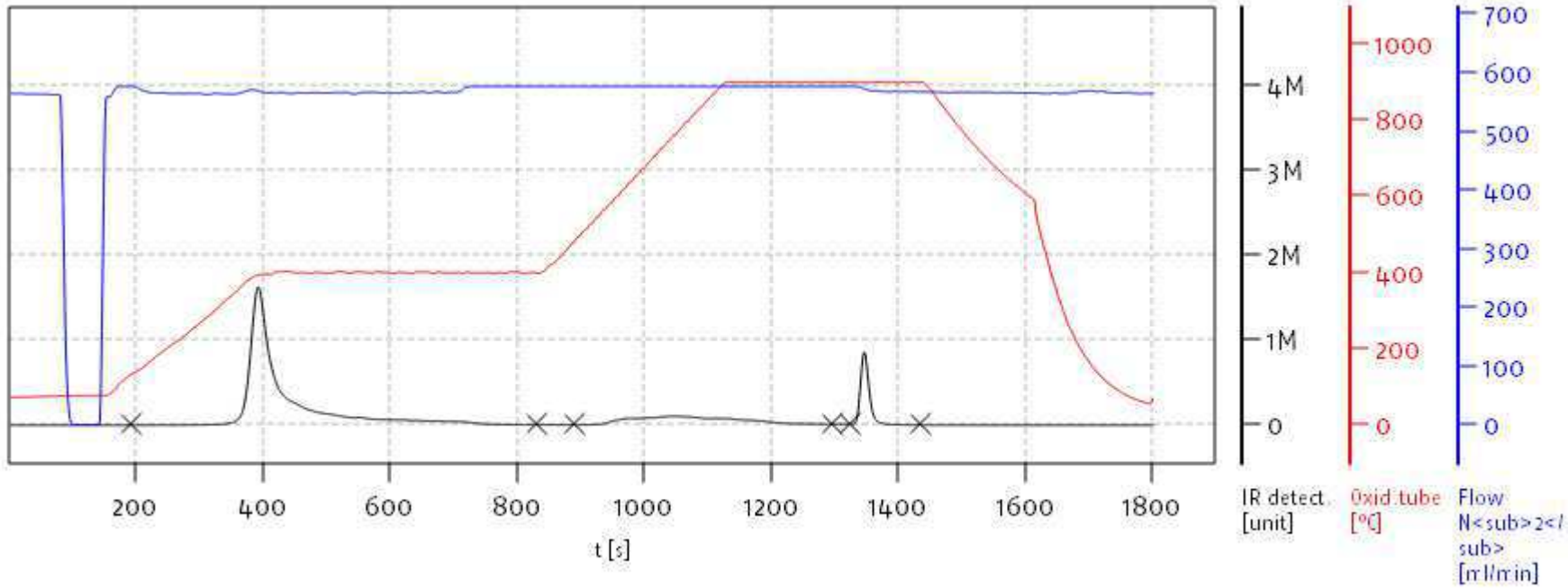
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	22L0199-41	521.90		CARBON	12/22/2022 9:12 AM	bl	1.101	3 297 381	1.338	0.147	520 635	824 026	0.955	0.237	0.9838	1.0000



Name:

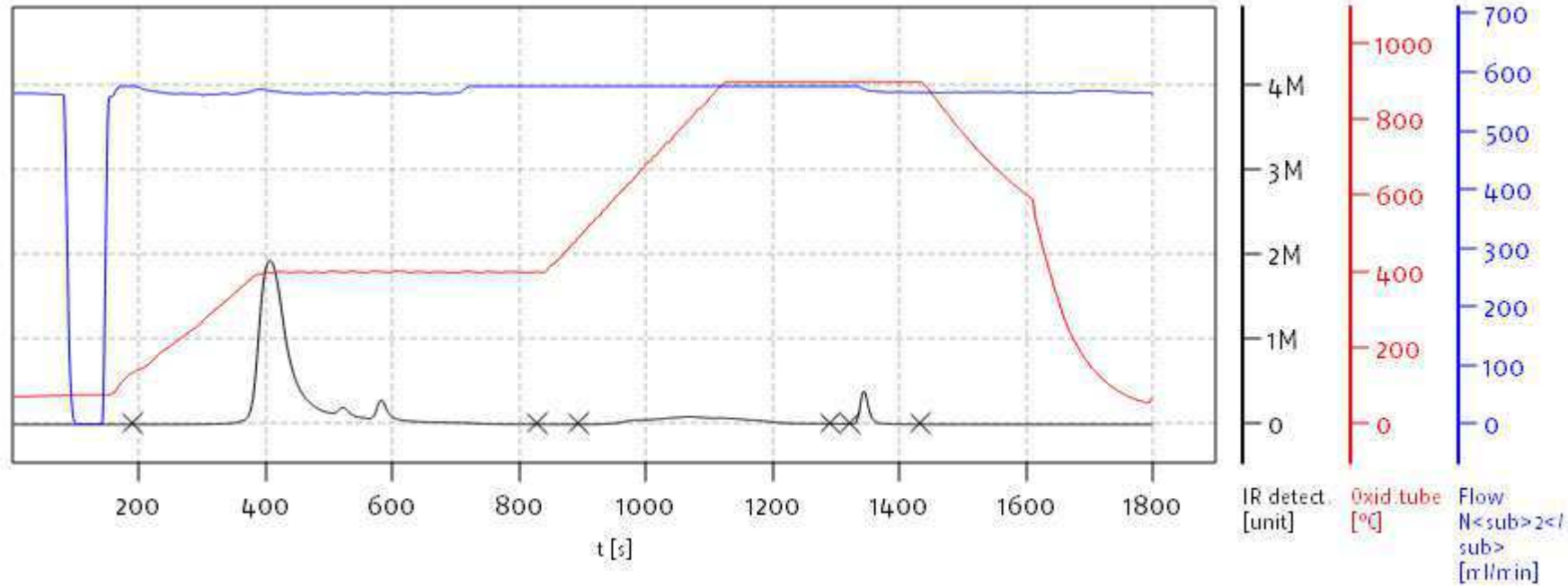
Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	22L0199-42	525.70		CARBON	12/22/2022 9:43 AM	bl	1.373	4 548 950	1.551	0.063	240 829	629 697	1.310	0.178	0.9838	1.0000



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Access: soliTOC superuser

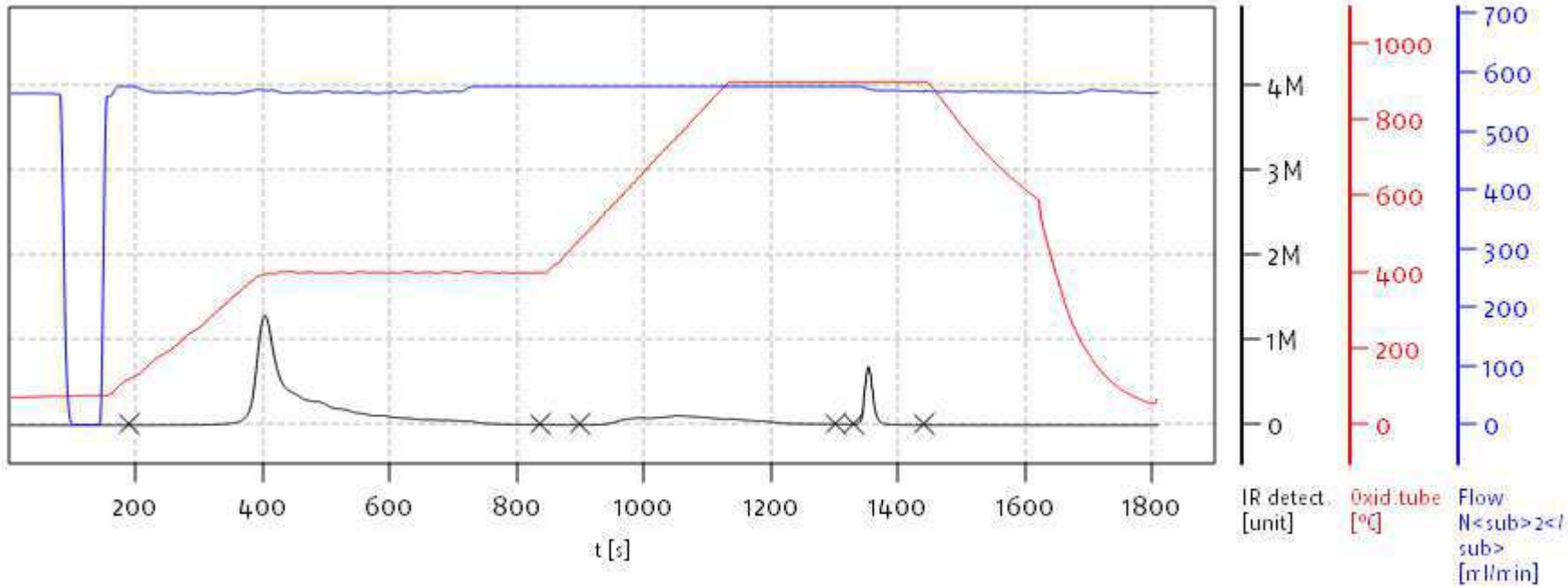
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	22L0199-43	540.80		CARBON	12/22/2022 10:13 AM	bl	1.082	3 482 281	1.305	0.109	406 283	804 644	0.973	0.223	0.9838	1.0000



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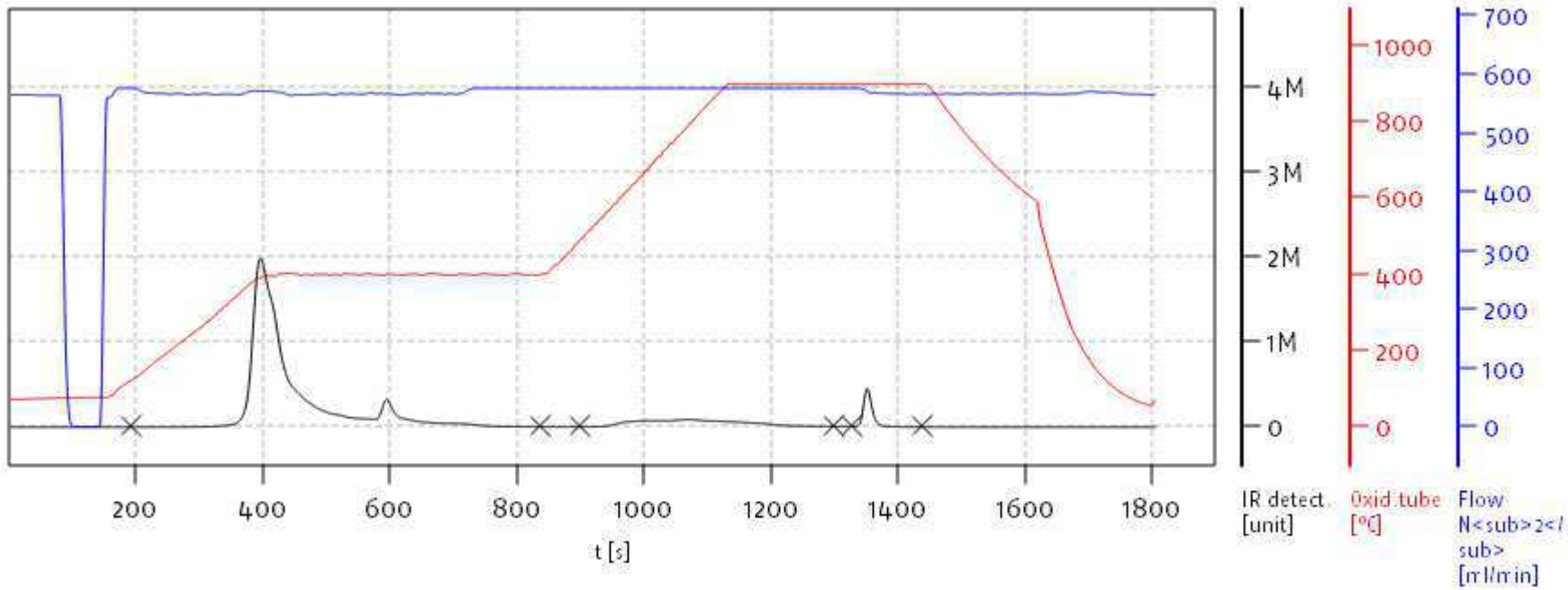
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	22L0199-44	508.80		CARBON	12/22/2022 10:44 AM	bl	1.520	4 853 305	1.722	0.076	275 077	688 715	1.445	0.201	0.9838	1.0000



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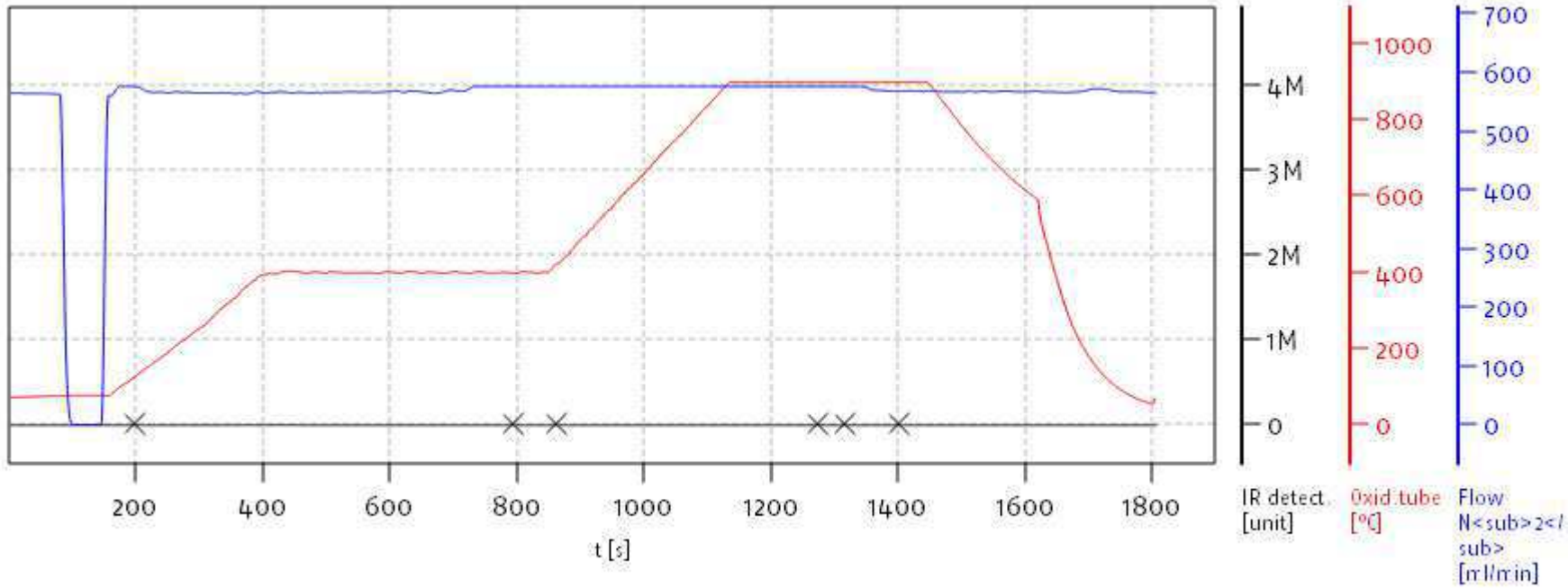
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/22/2022 11:14 AM	bl	0.000	7 401	0.000	0.000	297	1 265	0.000	0.000	0.9838	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
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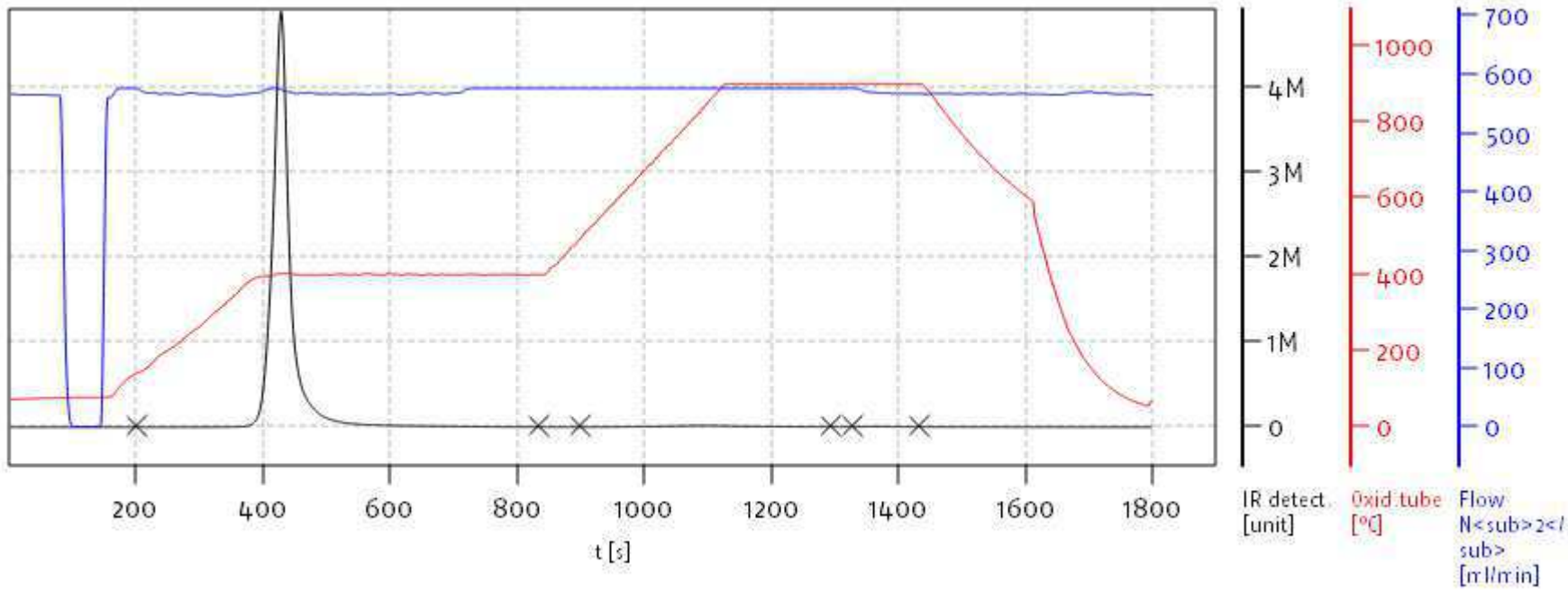
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.00		CARBON	12/22/2022 11:45 AM	bl	44.446	5 805 992	45.112	0.000	20 490	112 629	44.446	0.666	0.9936	1.0000



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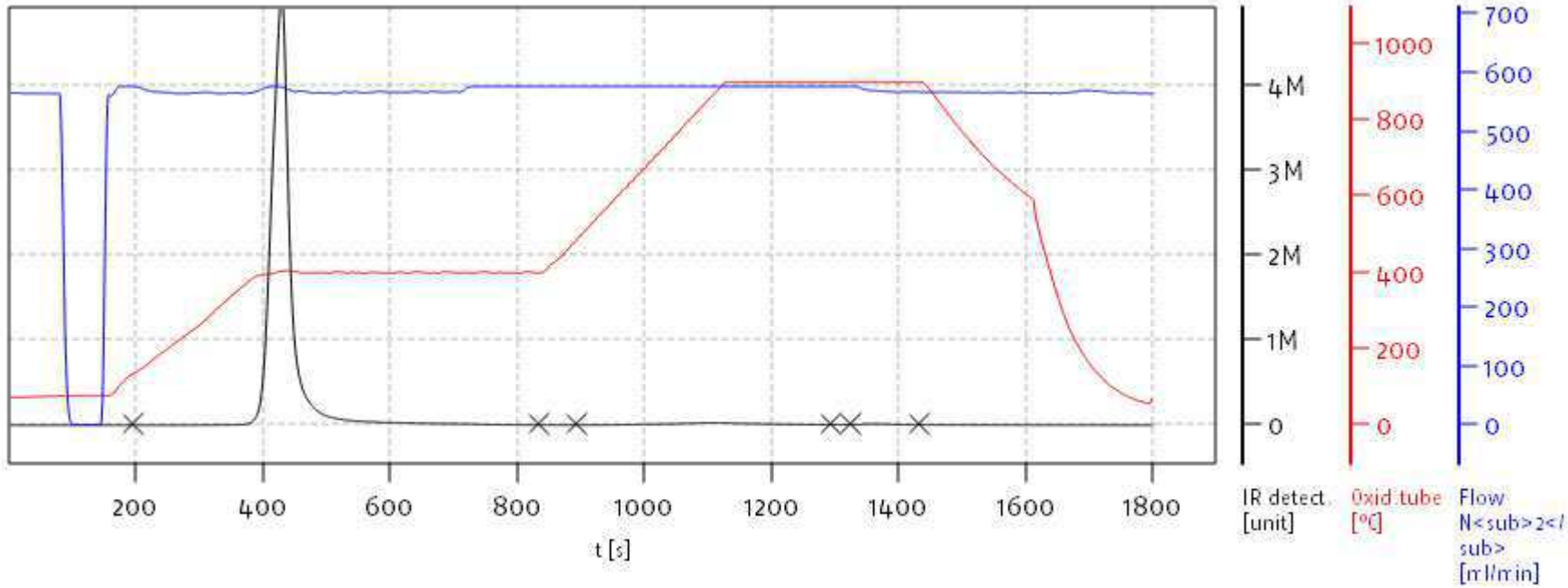
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	22.80		CARBON	12/22/2022 12:15 PM	bl	44.507	6 536 050	45.579	0.062	35 651	184 404	44.446	1.072	1.0056	1.0000



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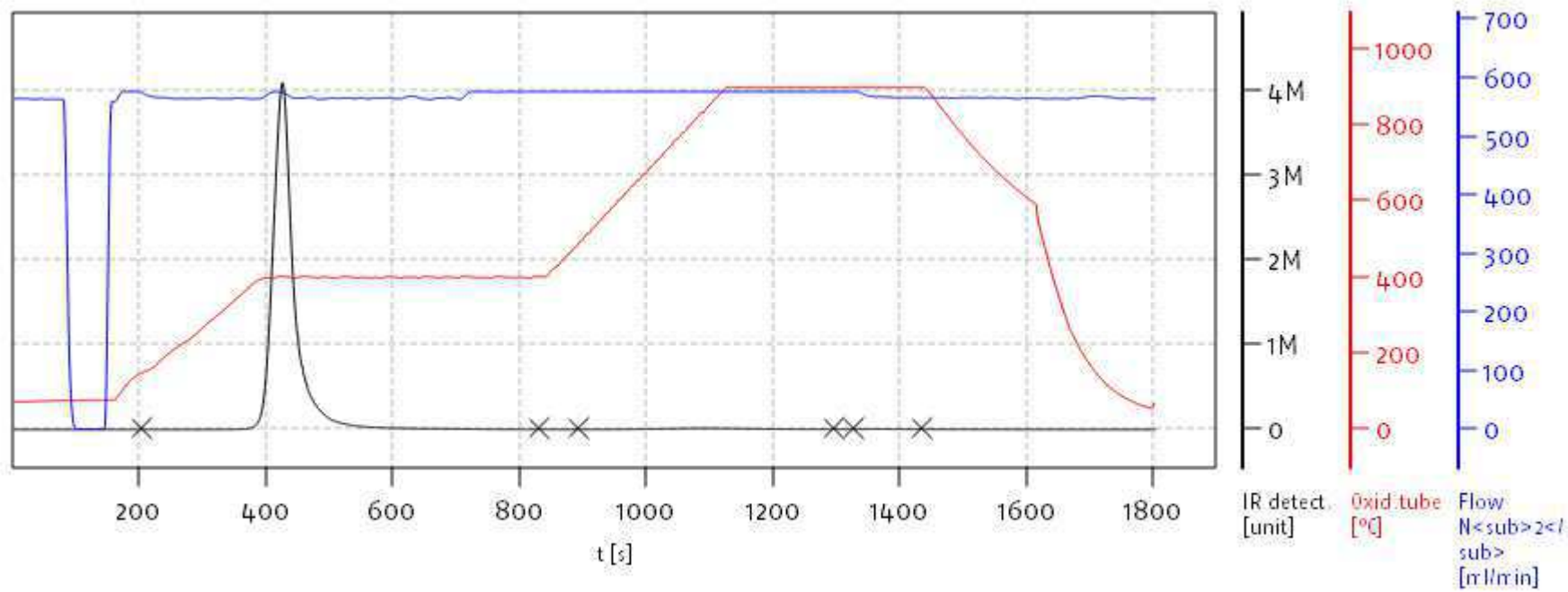
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0276-CCV4	20.30		CARBON	12/22/2022 12:45 PM	bl	44.966	5 925 551	45.558	0.000	18 051	104 166	44.966	0.592	0.9996	1.0000



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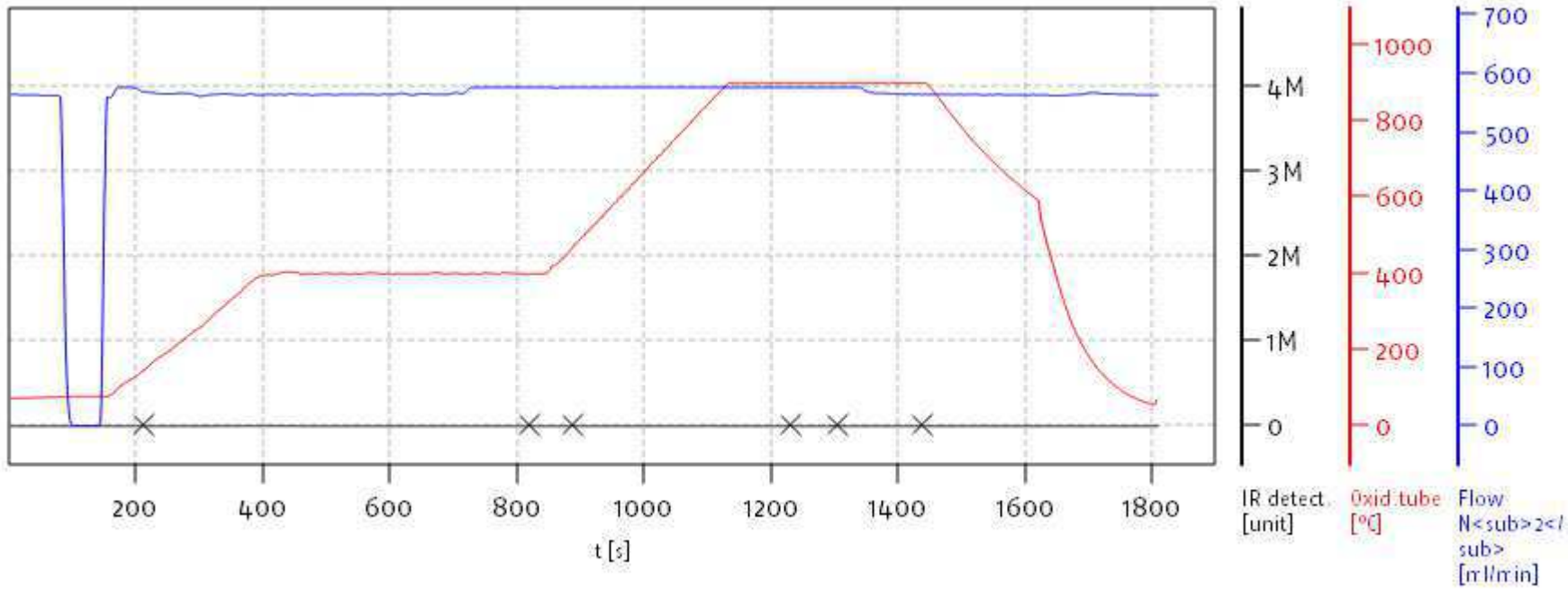
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0276-CCB4	527.60		CARBON	12/22/2022 1:16 PM	bl,C3u,C2u	0.000	8 322	0.000	0.000	941	2 024	0.000	0.000	0.9996	1.0000



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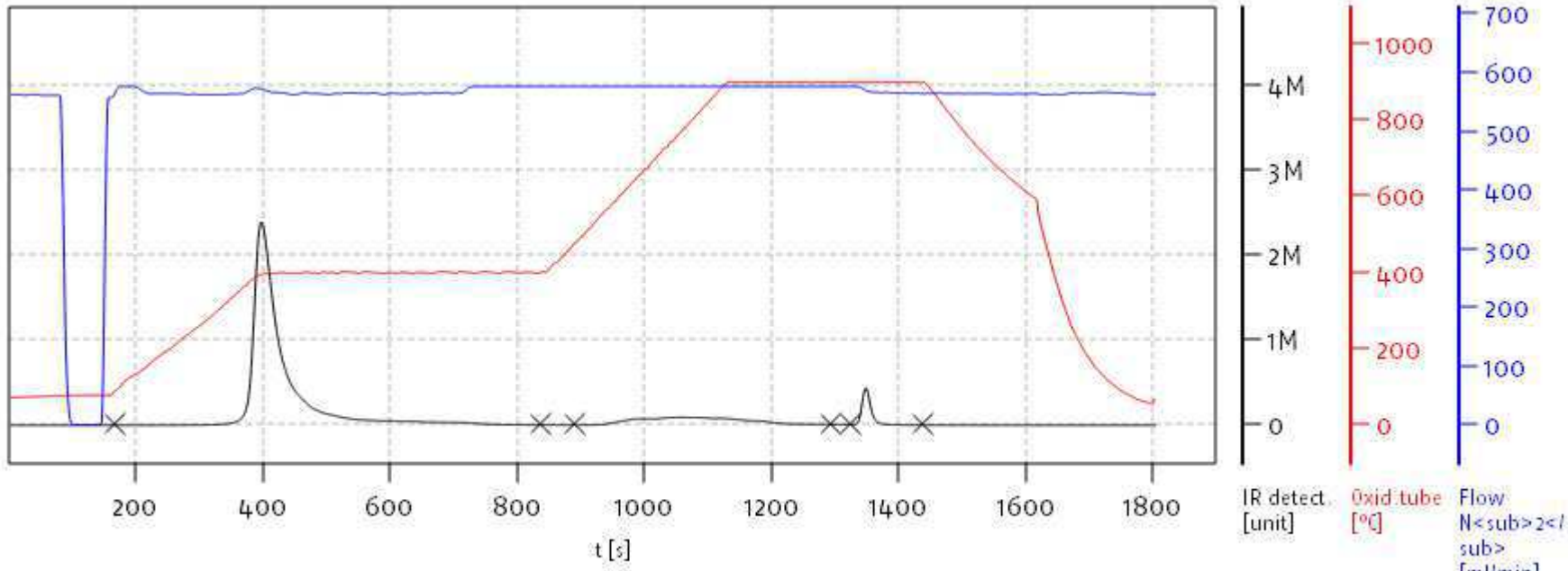
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0199-45	510.10		CARBON	12/22/2022 1:47 PM	bl	1.443	4 534 570	1.661	0.075	273 995	745 779	1.368	0.218	0.9996	1.0000



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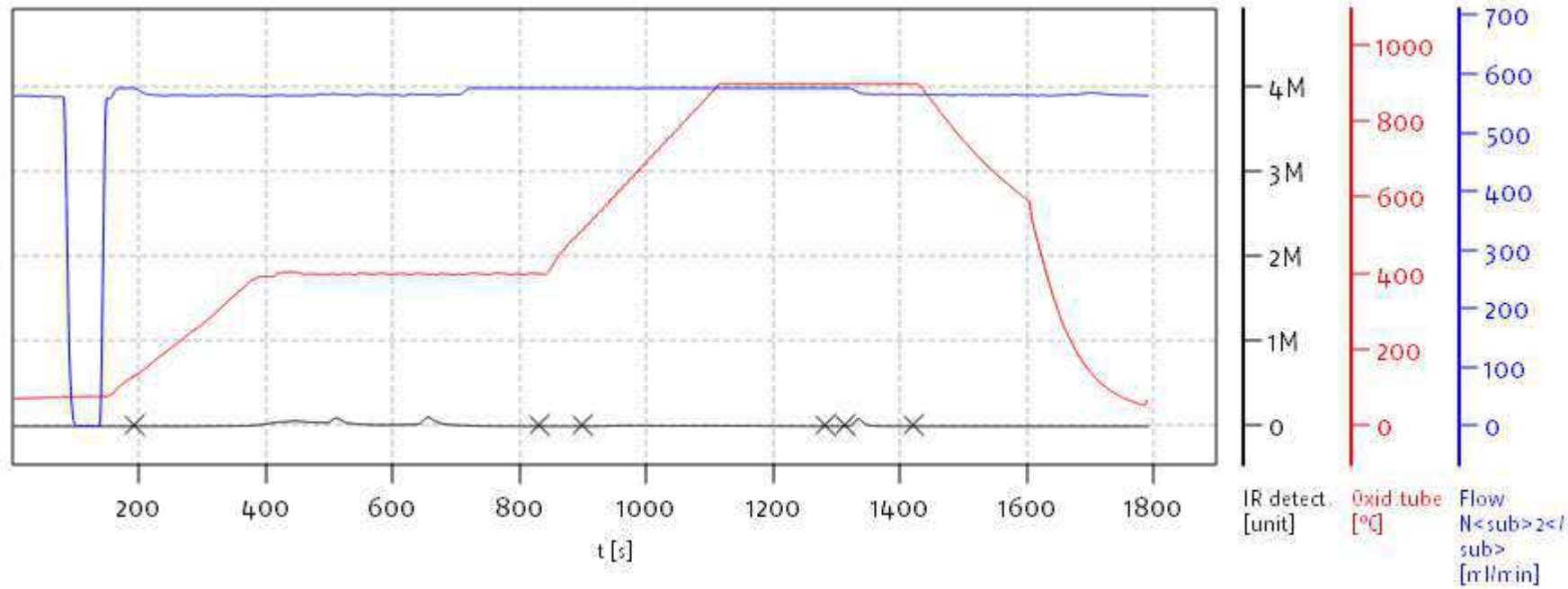
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	22L0199-46	602.50		CARBON	12/22/2022 2:17 PM	bl	0.132	510 331	0.143	0.008	56 353	69 976	0.124	0.011	0.9996	1.0000



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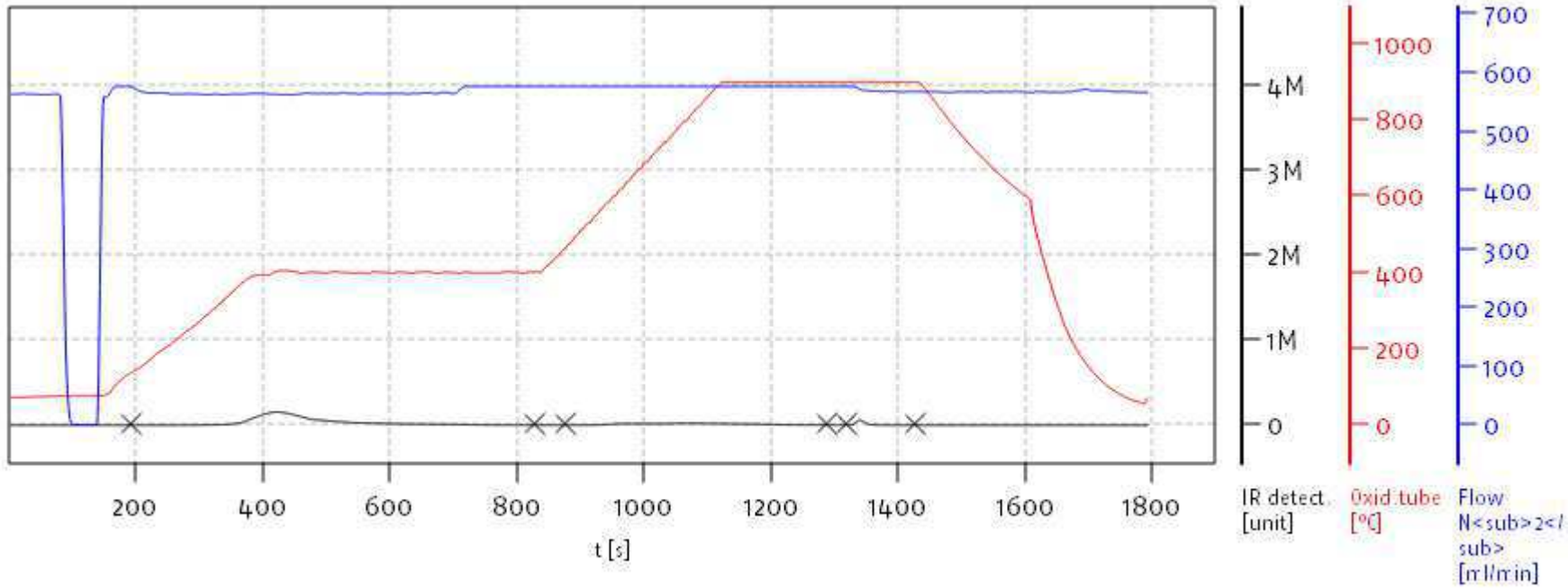
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	22L0199-47	302.40		CARBON	12/22/2022 2:47 PM	bl	0.357	712 208	0.432	0.006	38 095	173 811	0.351	0.075	0.9996	1.0000



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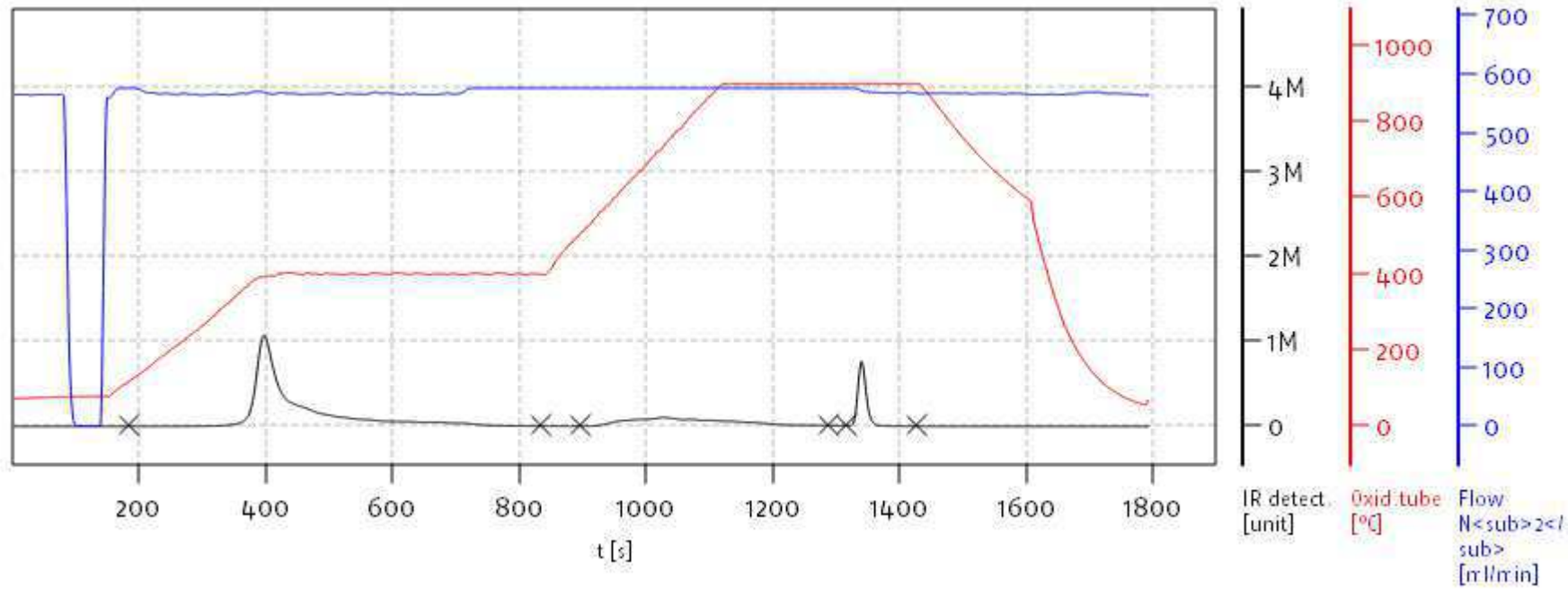
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0199-48	507.40		CARBON	12/22/2022 3:17 PM	bl	0.908	2 582 367	1.124	0.129	448 714	735 089	0.779	0.216	0.9996	1.0000



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Date: Sat Dec 24 09:27:56 2022

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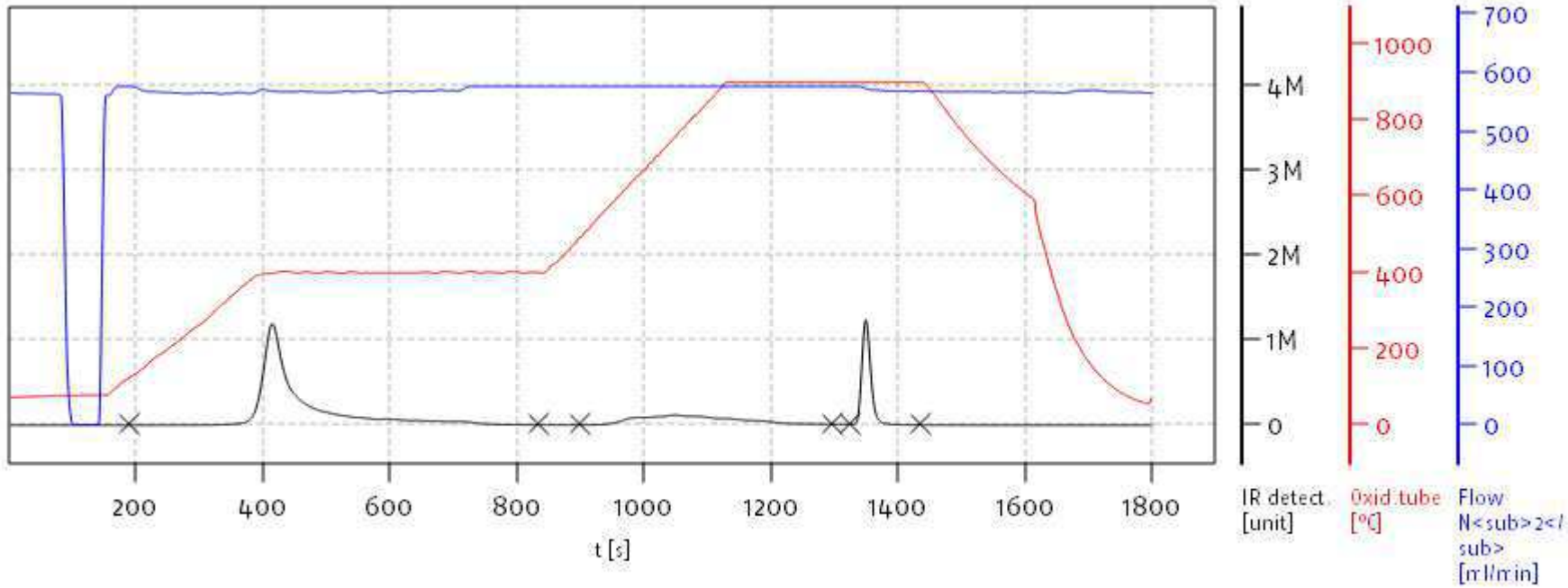
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	22L0199-49	537.10		CARBON	12/22/2022 3:48 PM	bl	1.007	2 778 715	1.242	0.214	770 275	840 546	0.793	0.235	0.9996	1.0000



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Balance: BAL3
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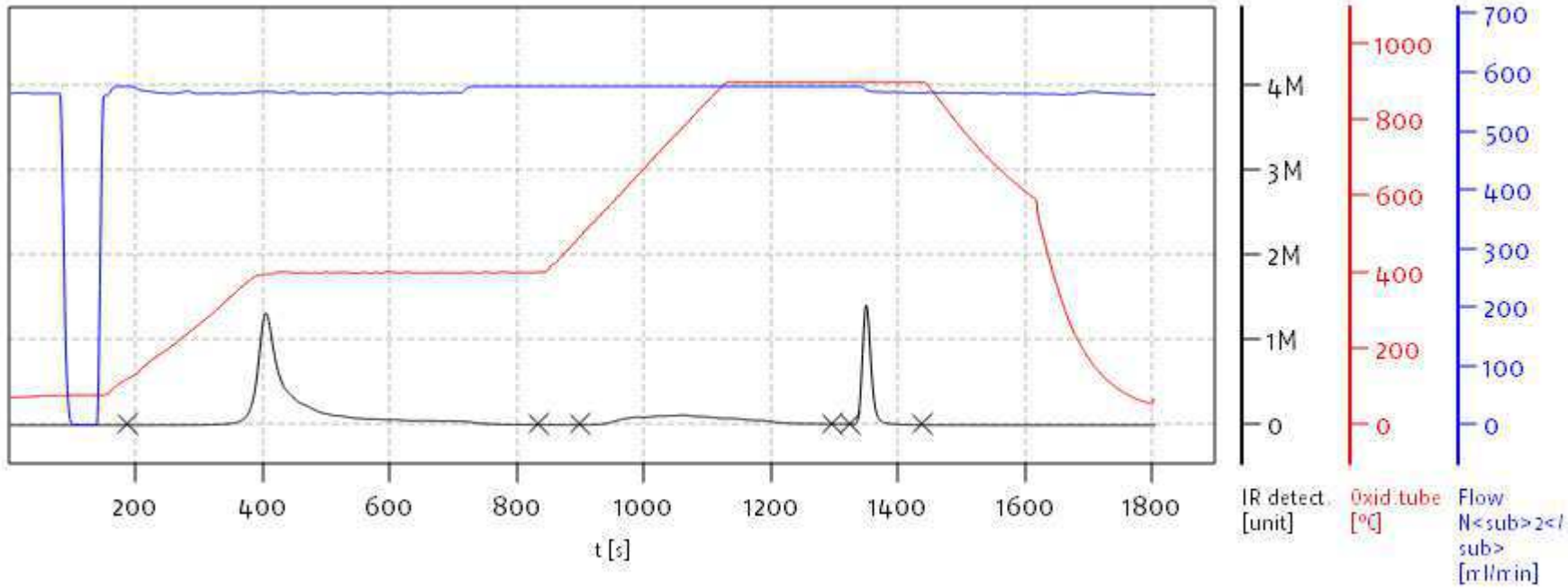
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	22L0199-50	527.50		CARBON	12/22/2022 4:18 PM	bl	1.093	2 918 590	1.351	0.245	860 579	906 592	0.848	0.258	0.9996	1.0000



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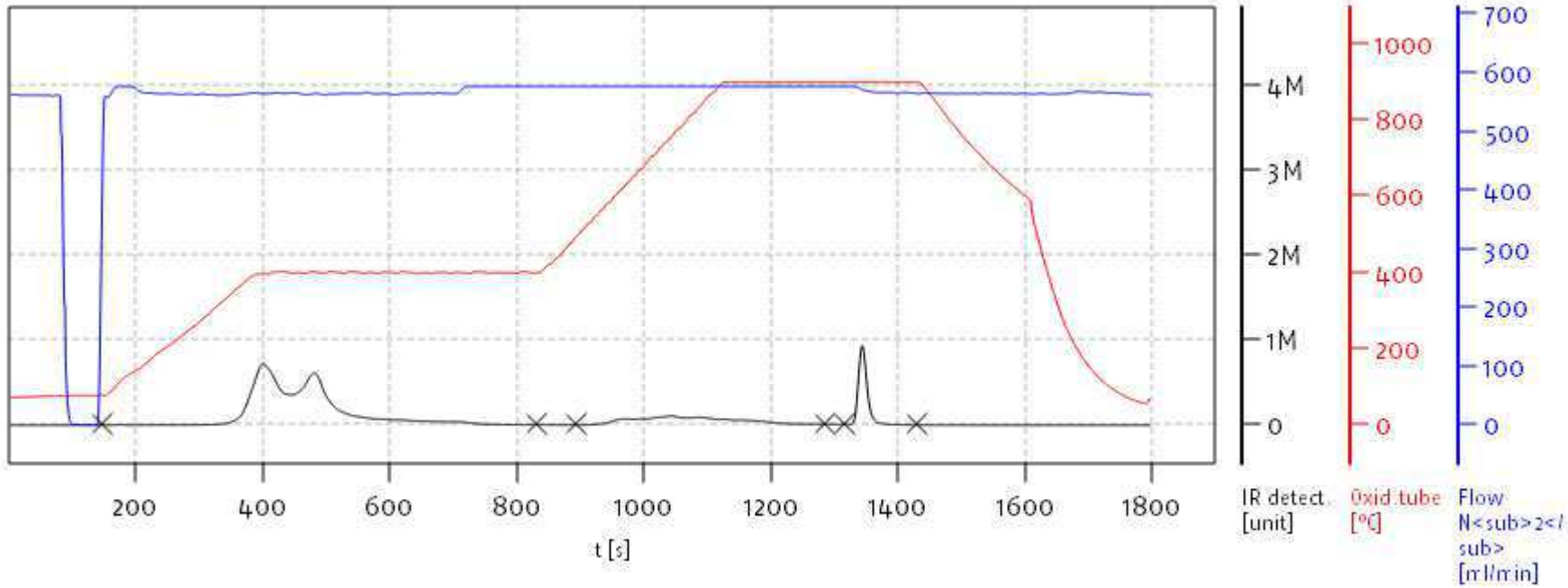
elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	22L0199-51	550.30		CARBON	12/22/2022 4:49 PM	bl	1.042	3 183 880	1.251	0.154	574 696	770 032	0.888	0.209	0.9996	1.0000



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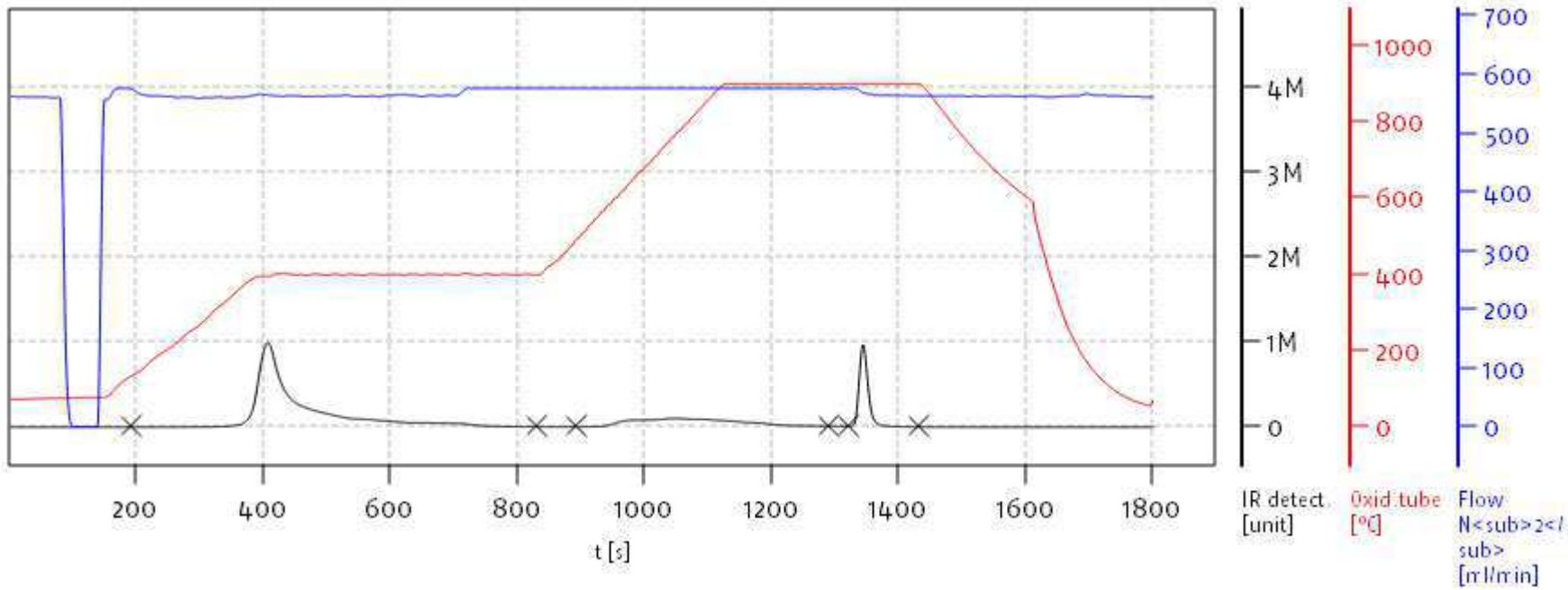
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	22L0199-52	538.90		CARBON	12/22/2022 5:19 PM	bl	0.920	2 651 555	1.142	0.166	604 581	800 715	0.754	0.222	0.9996	1.0000



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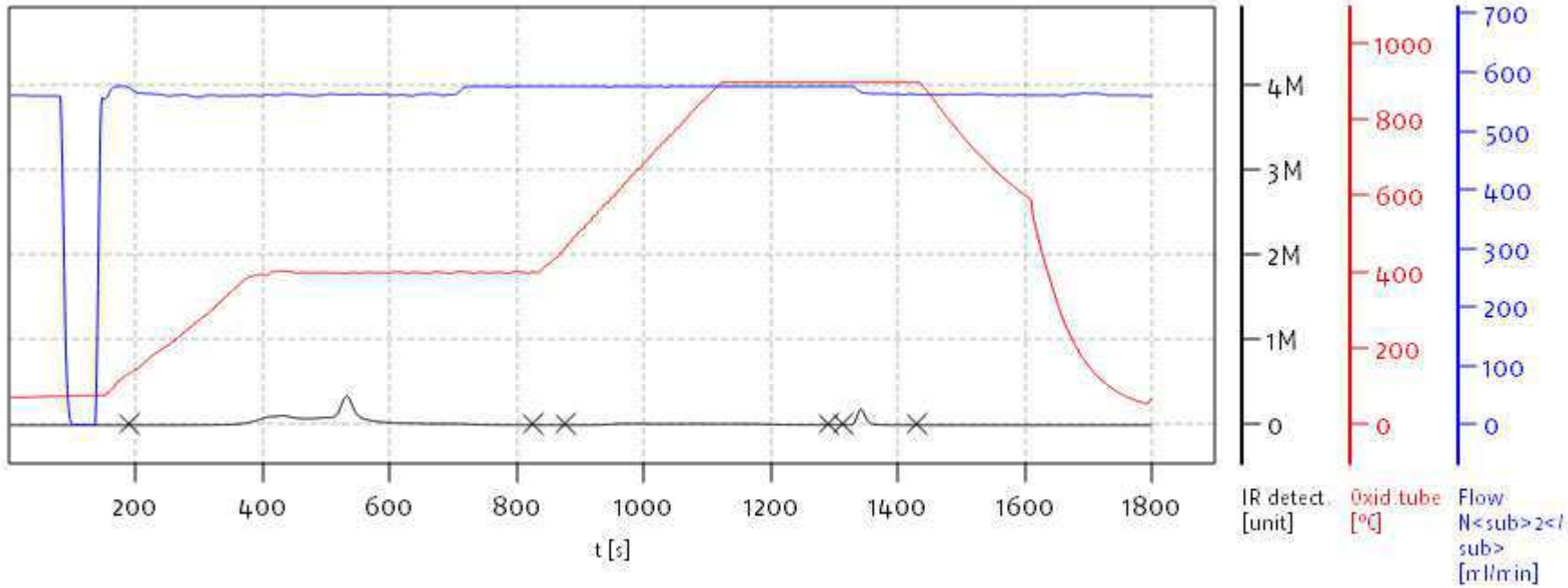
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0199-53	505.60		CARBON	12/22/2022 5:49 PM	bl	0.316	969 765	0.356	0.027	114 142	159 526	0.289	0.041	0.9996	1.0000



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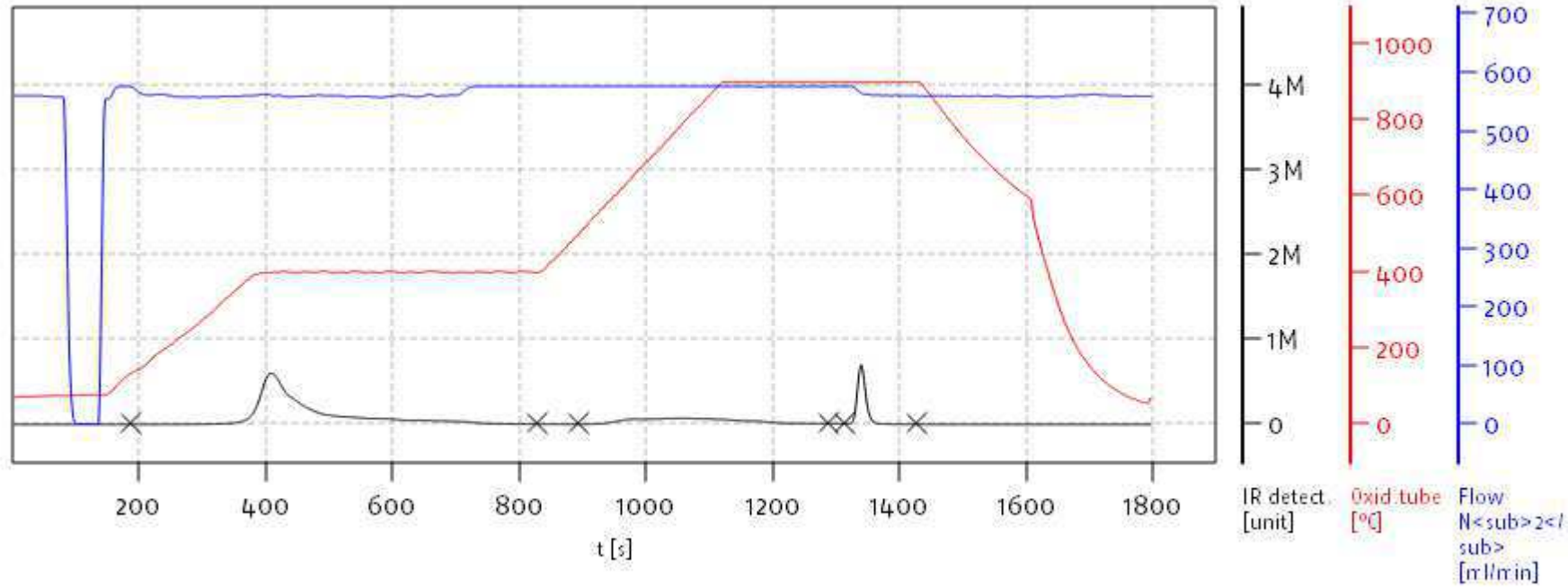
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	22L0199-54	517.70		CARBON	12/22/2022 6:20 PM	bl	0.708	2 010 073	0.877	0.115	411 359	591 885	0.593	0.169	0.9996	1.0000



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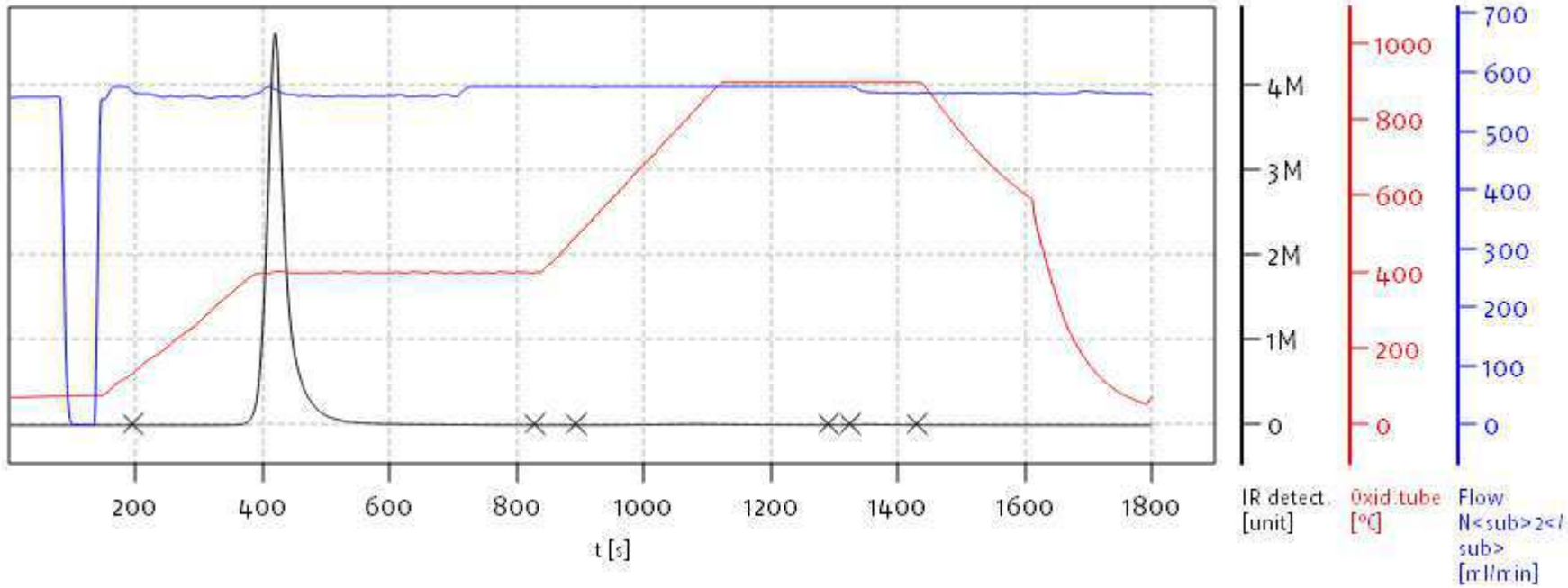
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0276-CCV5	21.10		CARBON	12/22/2022 6:50 PM	bl	45.344	6 209 574	45.753	0.000	20 520	82 331	45.344	0.409	0.9996	1.0000



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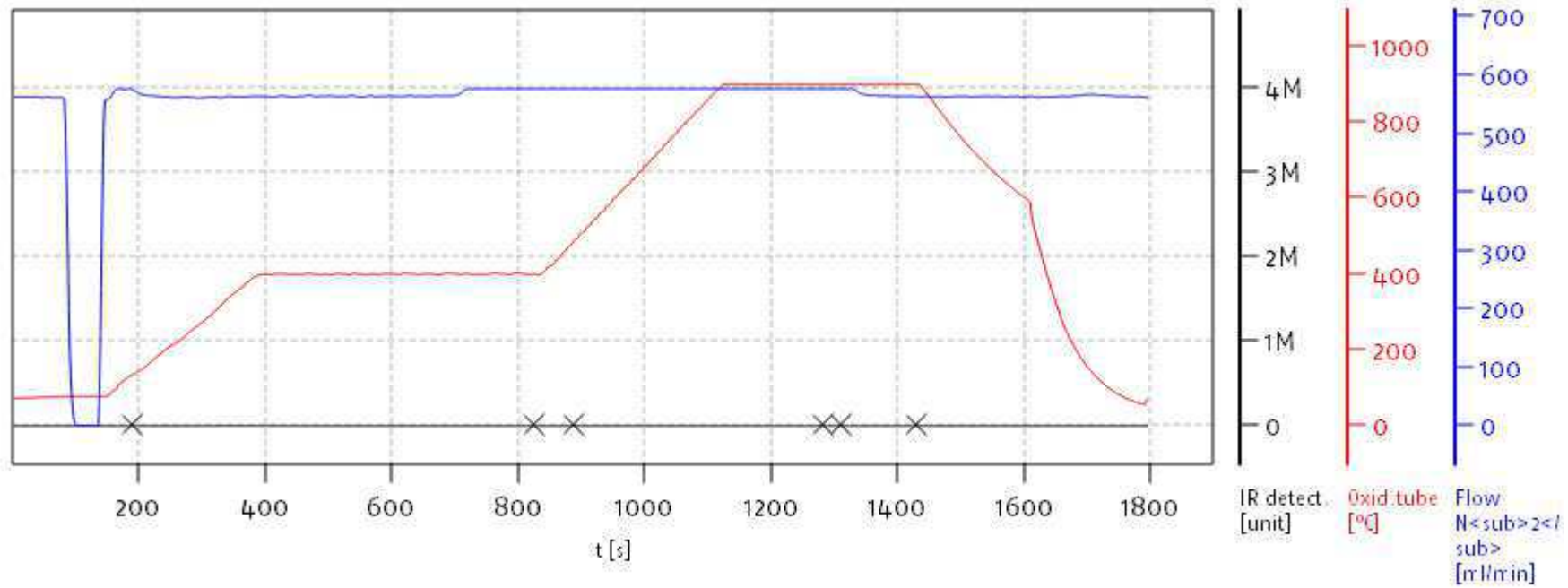
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0276-CCB5	528.80		CARBON	12/22/2022 7:20 PM	bl,C3u,C2u	0.000	8 917	0.000	0.000	485	1 751	0.000	0.000	0.9996	1.0000



Name:

Access: soliTOC superuser

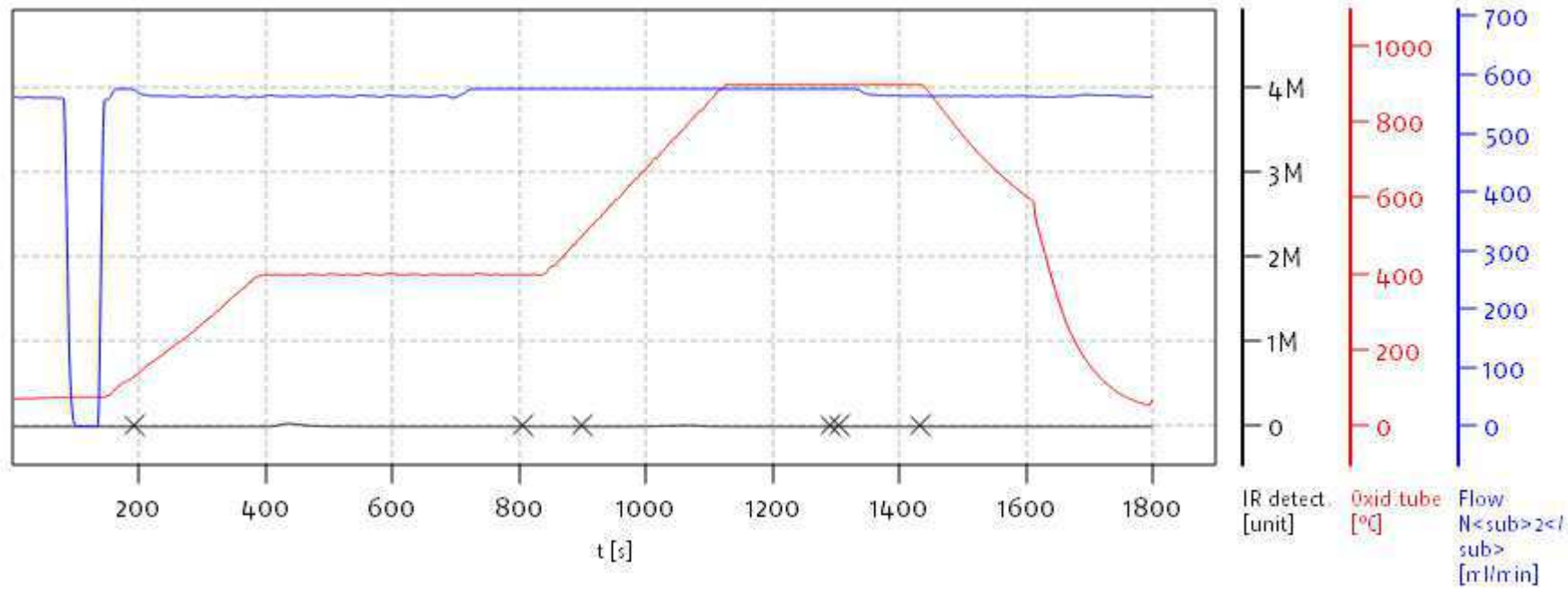
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	BKL0501-MRL1	503.50		CARBON	12/22/2022 7:51 PM	bl,C2u	0.011	63 184	0.014	0.000	573	34 164	0.011	0.002	0.9996	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
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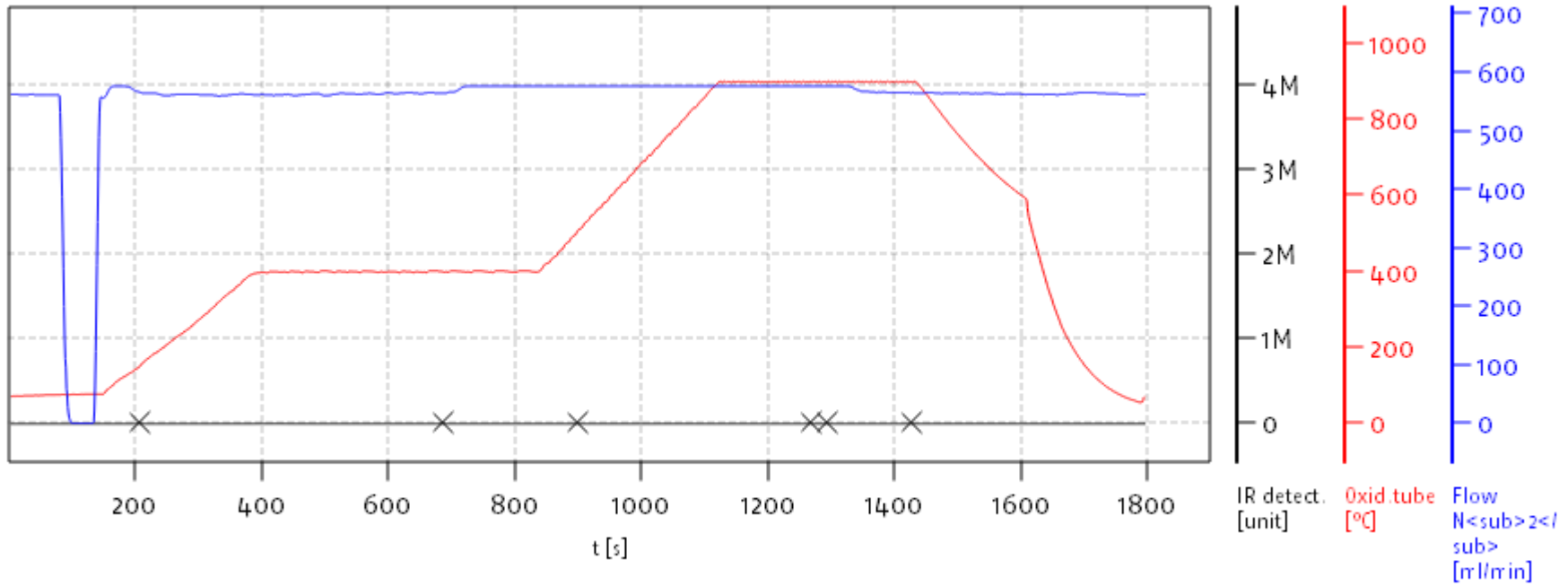
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	BKL0501-BLK1	501.10		CARBON	12/22/2022 8:21 PM	bl,C3u,C2u	0.000	4 872	0.000	0.000	402	1 255	0.000	0.000	0.9996	1.0000



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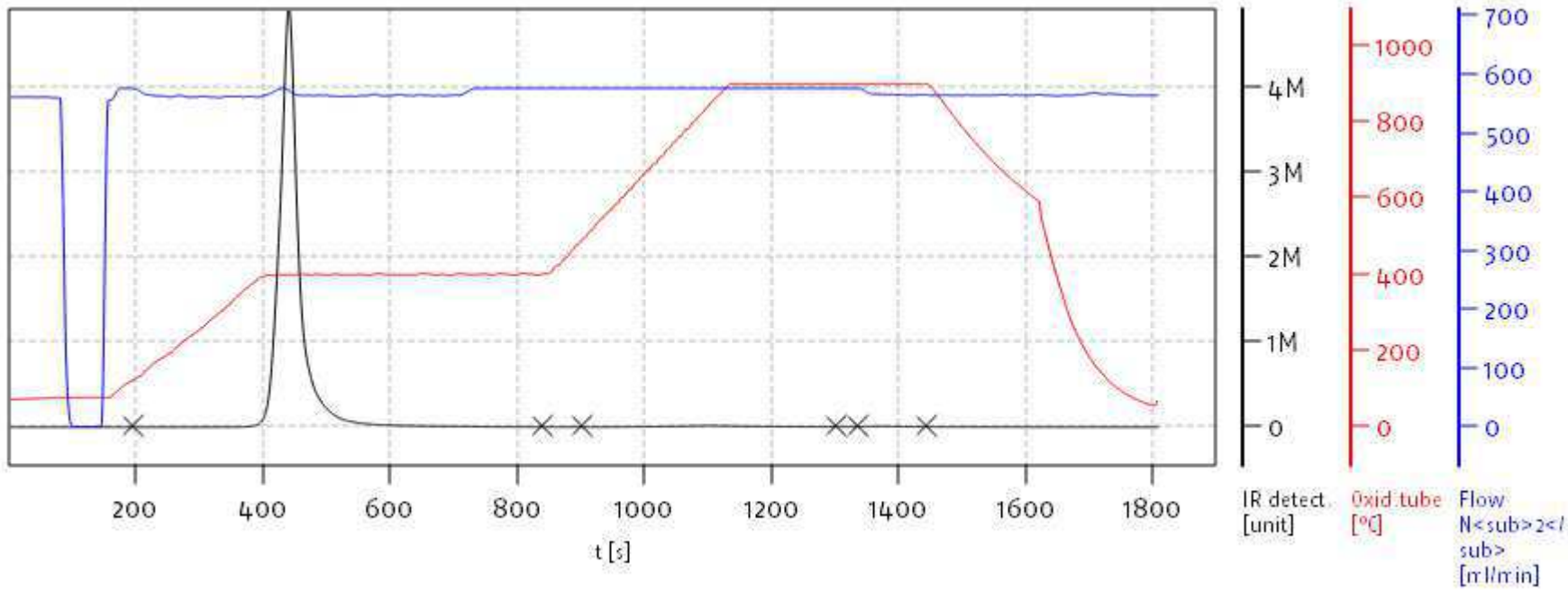
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	BKL0501-BS1	22.60		CARBON	12/22/2022 8:52 PM	bl	44.840	6 575 465	45.406	0.000	25 521	109 267	44.840	0.567	0.9996	1.0000



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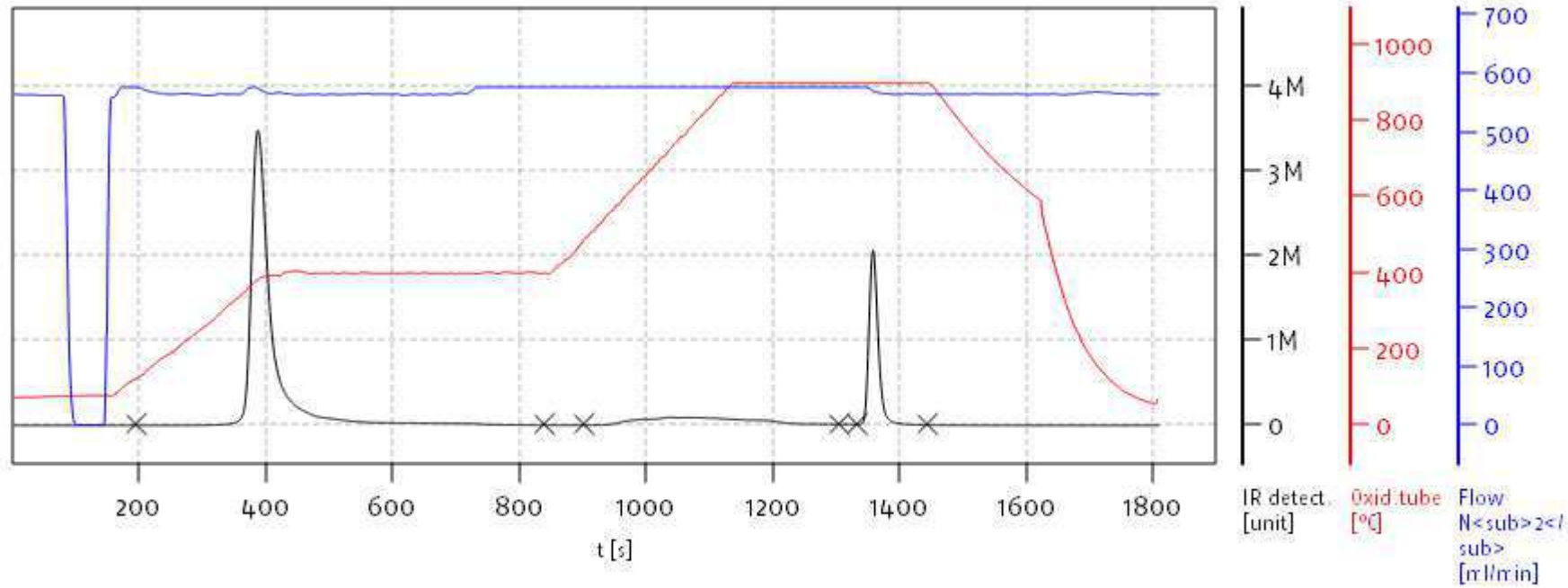
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	BKL0501-SRM1	314.00		CARBON	12/22/2022 9:22 PM	bl	2.979	4 771 926	3.351	0.640	1 324 796	782 089	2.339	0.372	0.9996	1.0000



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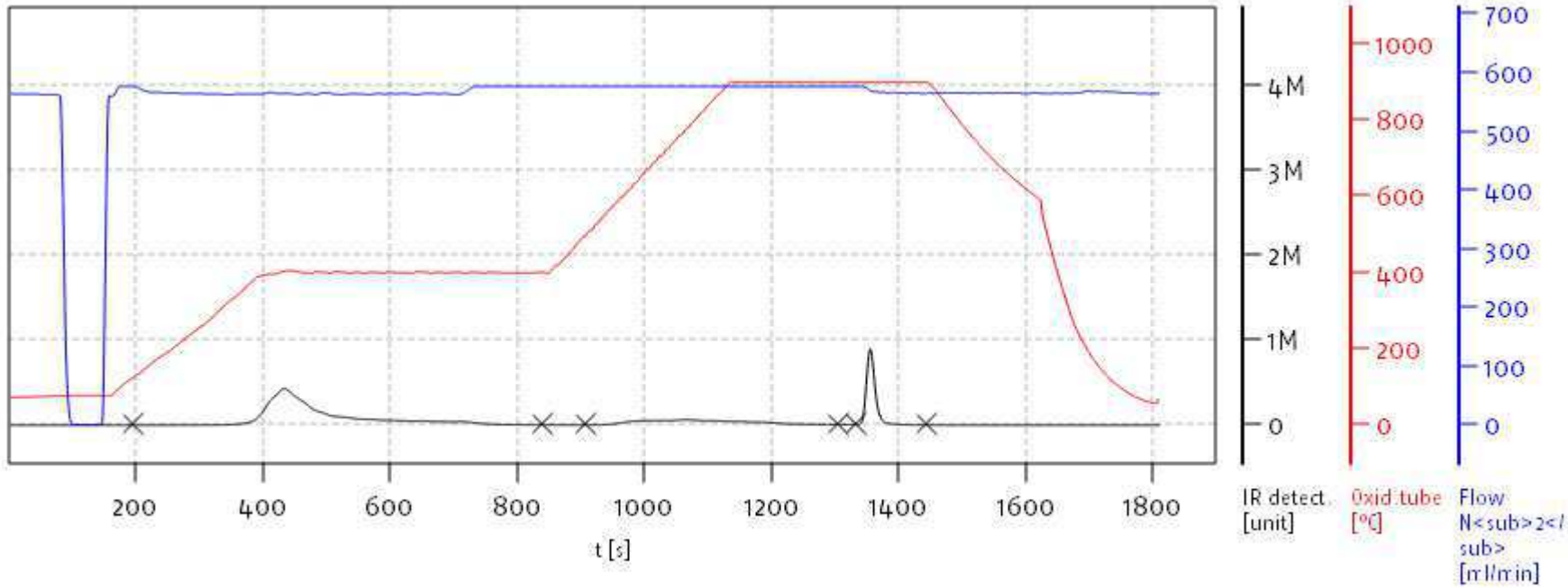
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0199-55	503.70		CARBON	12/22/2022 9:53 PM	bl	0.676	1 709 982	0.820	0.159	543 812	495 385	0.517	0.144	0.9996	1.0000



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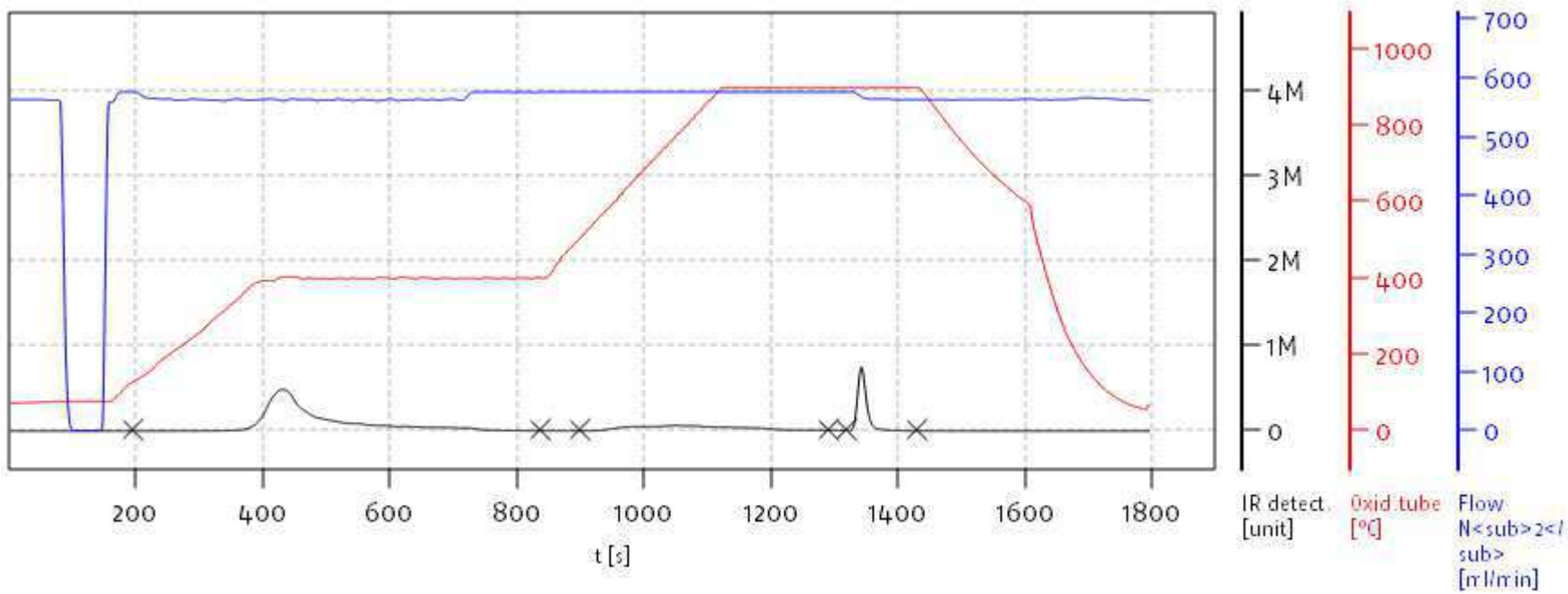
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	BKL0501-DUP1	520.10		CARBON	12/22/2022 10:23 PM	bl	0.663	1 815 300	0.805	0.130	464 549	504 797	0.532	0.142	0.9996	1.0000



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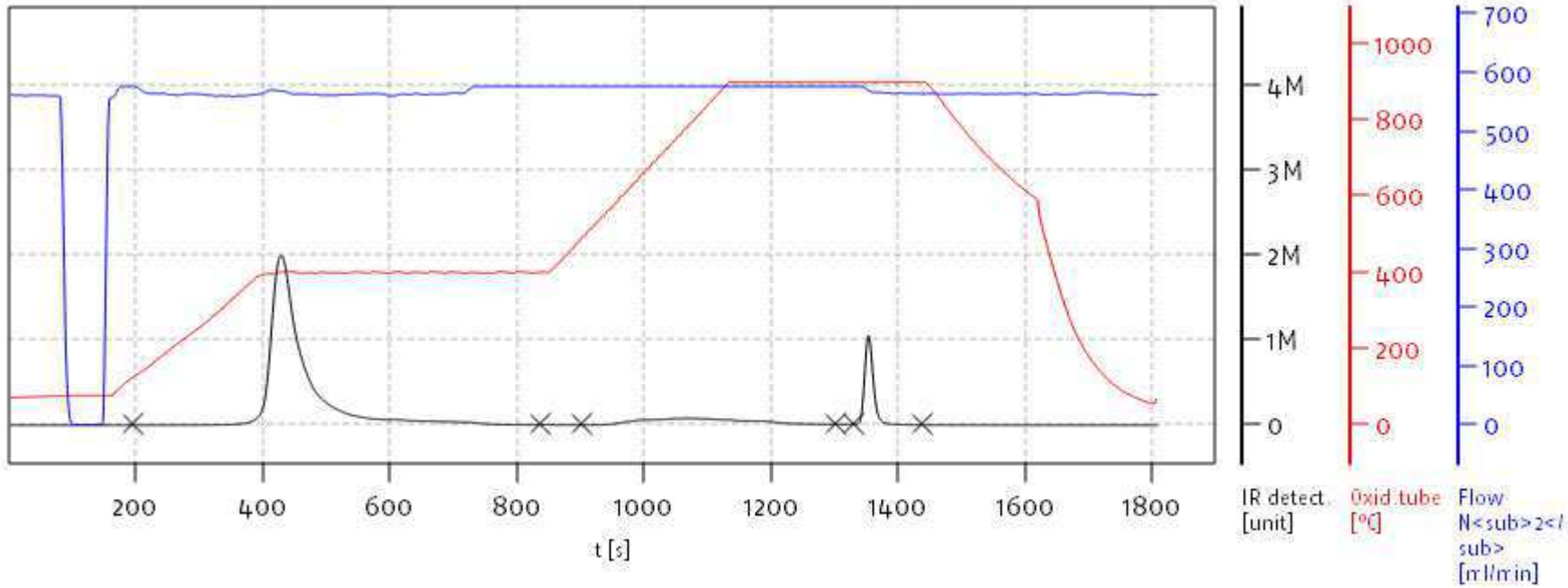
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	BKL0501-MS1	539.20	0.0087	CARBON	12/22/2022 10:54 PM	bl	1.443	4 445 127	1.618	0.175	636 167	634 316	1.268	0.174	0.9996	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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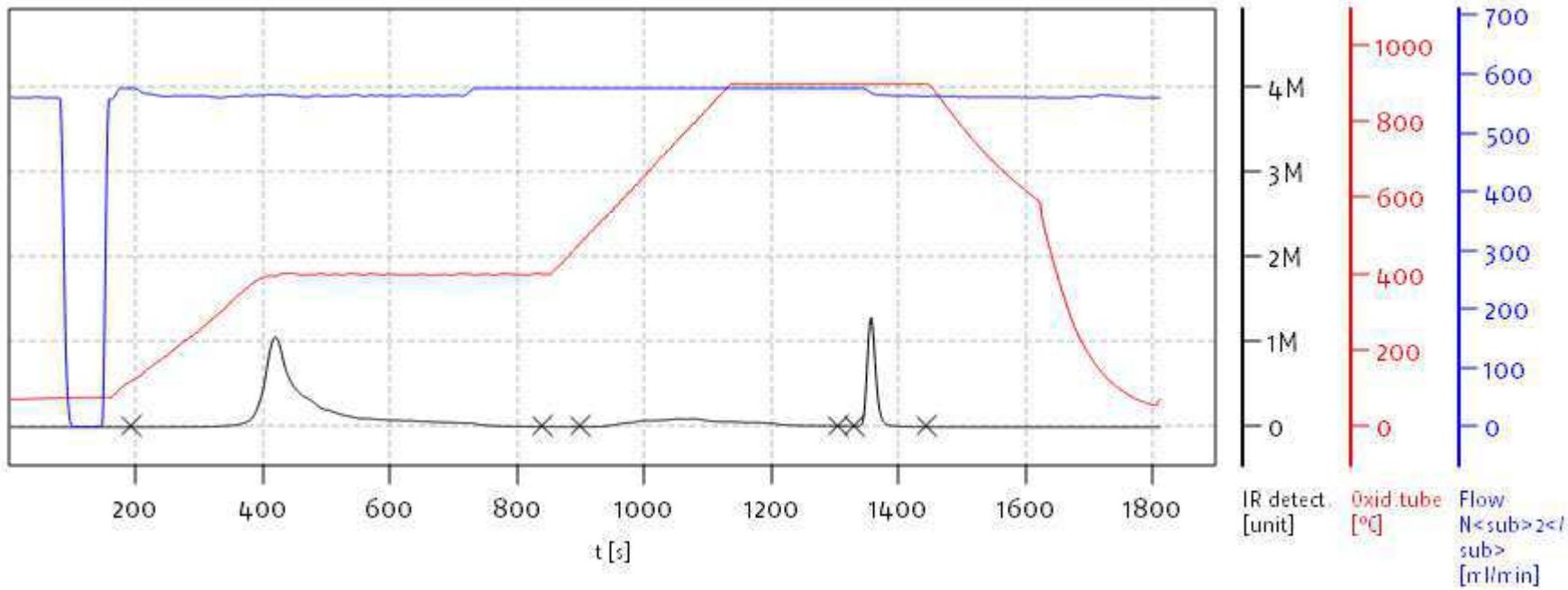
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0199-56	596.10		CARBON	12/22/2022 11:24 PM	bl	0.988	3 083 652	1.172	0.194	773 780	736 554	0.794	0.184	0.9996	1.0000



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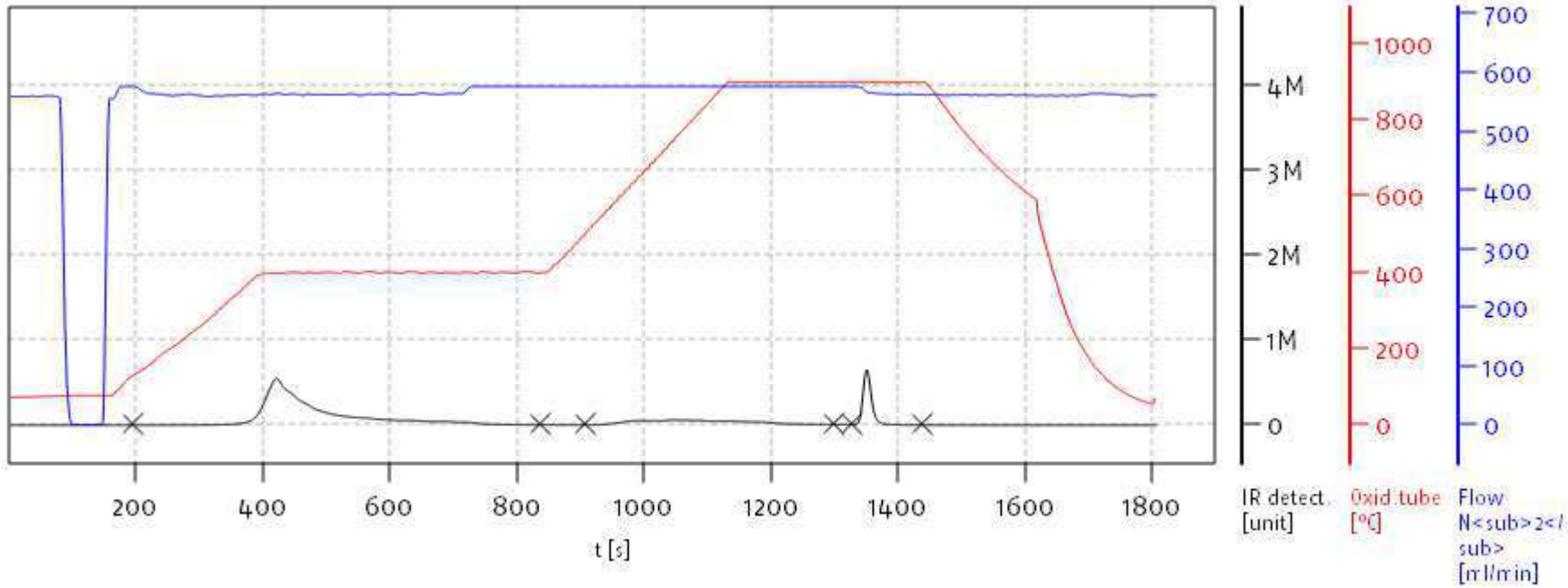
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0199-57	521.20		CARBON	12/22/2022 11:55 PM	bl	0.681	1 957 472	0.821	0.108	389 070	498 307	0.573	0.140	0.9996	1.0000



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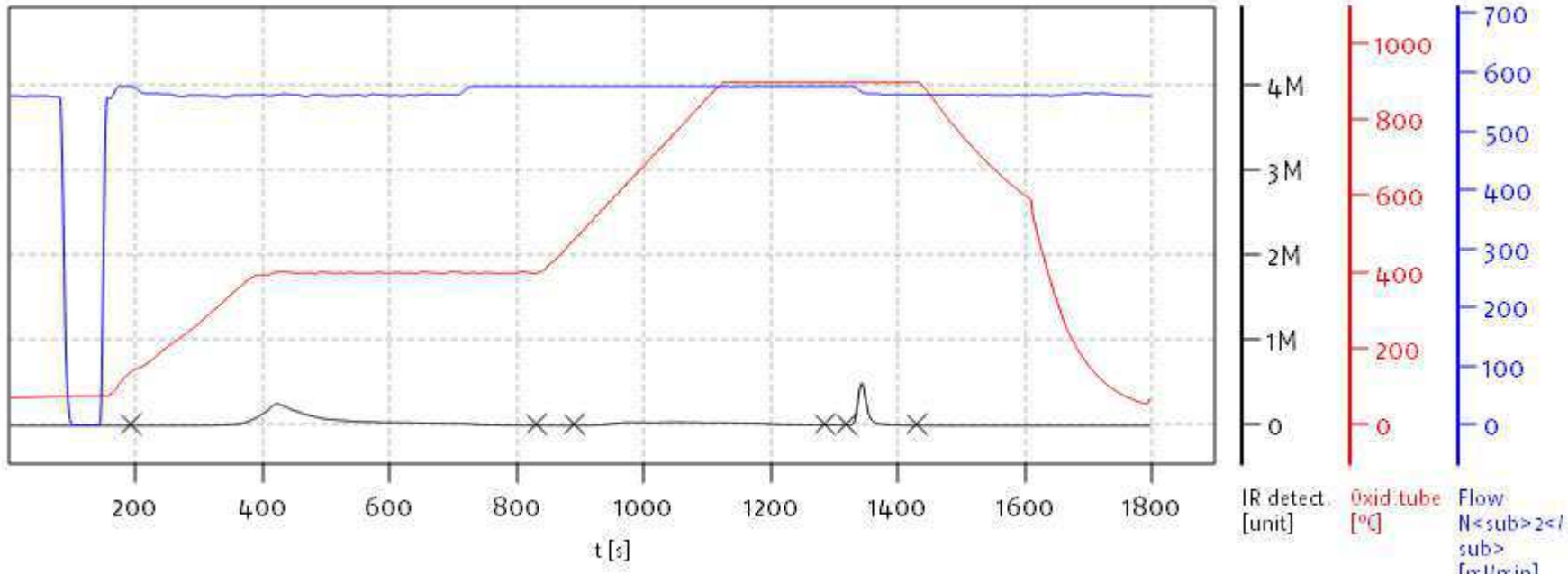
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0199-58	504.80		CARBON	12/23/2022 12:25 AM	bl	0.405	1 059 723	0.495	0.088	313 084	322 711	0.317	0.091	0.9996	1.0000



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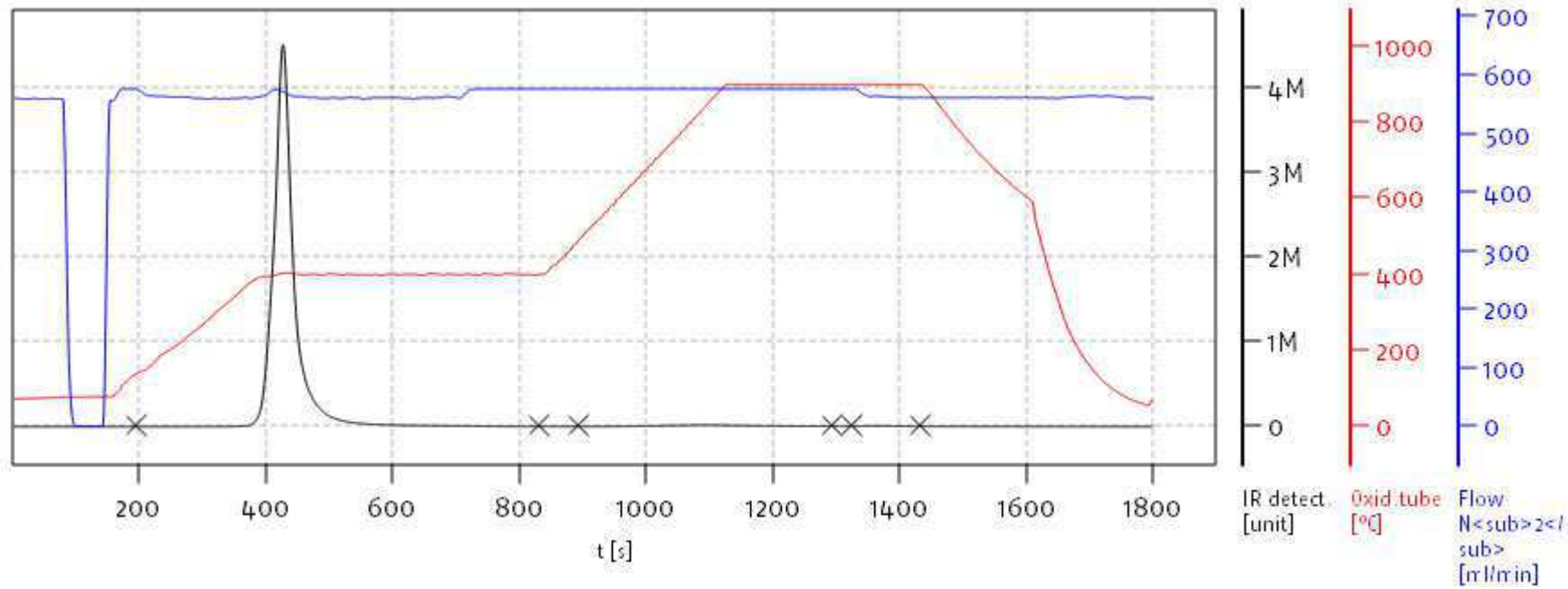
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0276-CCV6	21.50		CARBON	12/23/2022 12:56 AM	bl	44.059	6 148 214	44.811	0.000	24 213	131 049	44.059	0.753	0.9996	1.0000



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elementar
EXCELLENCE IN ELEMENTS

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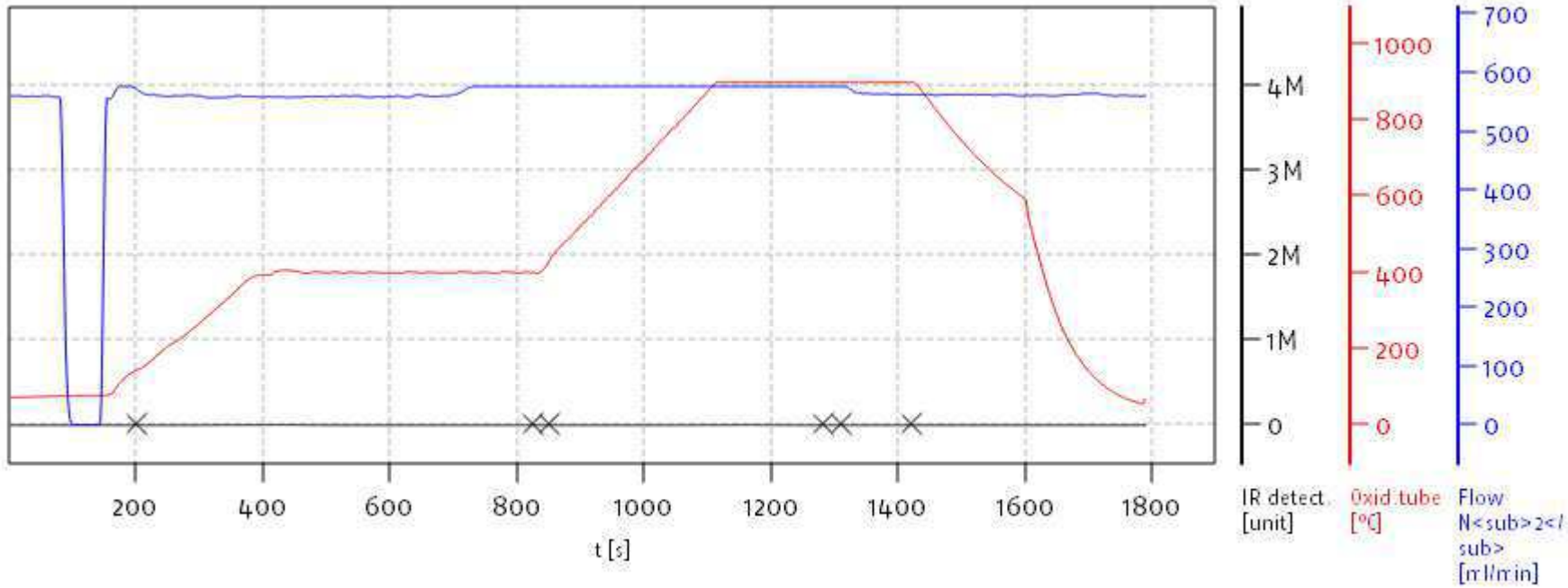
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0276-CCB6	523.30		CARBON	12/23/2022 1:26 AM	bl,C2u	0.000	19 233	0.000	0.000	573	12 827	0.000	0.000	0.9996	1.0000



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EXCELLENCE IN ELEMENTS

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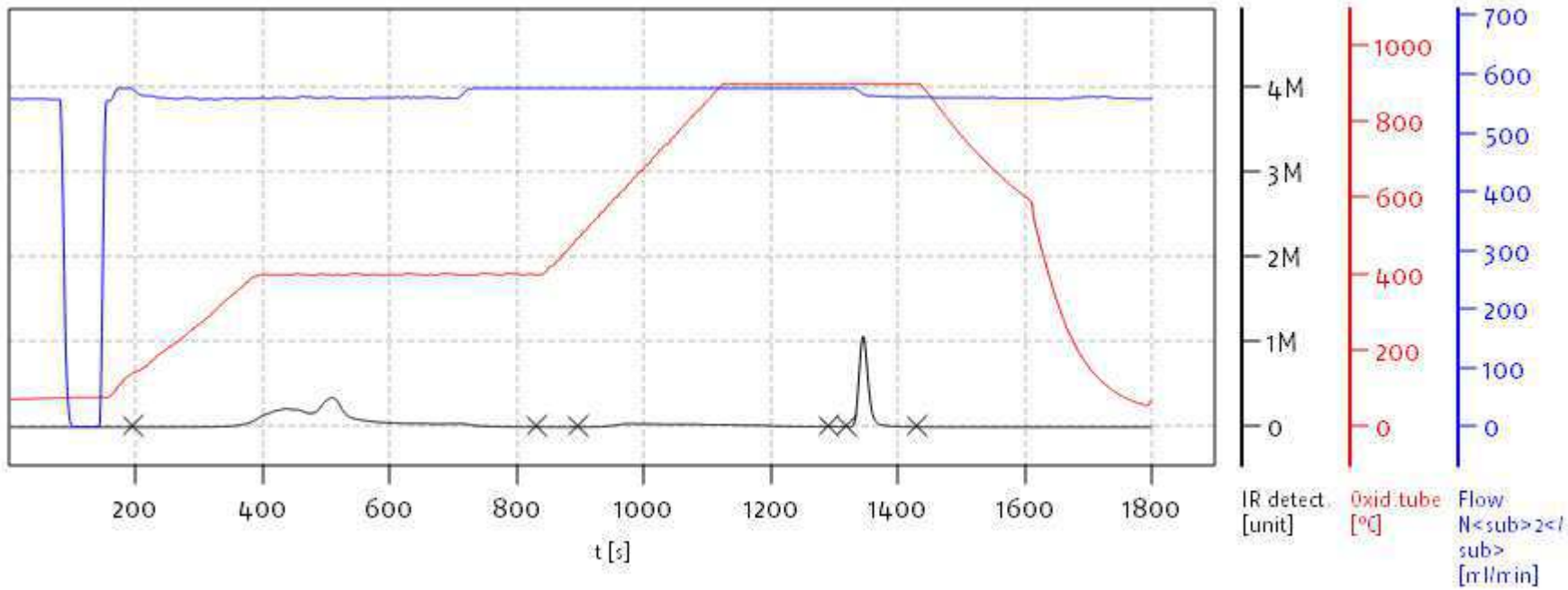
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	22L0199-59	523.90		CARBON	12/23/2022 1:56 AM	bl	0.661	1 603 012	0.744	0.195	687 000	307 230	0.466	0.083	0.9996	1.0000



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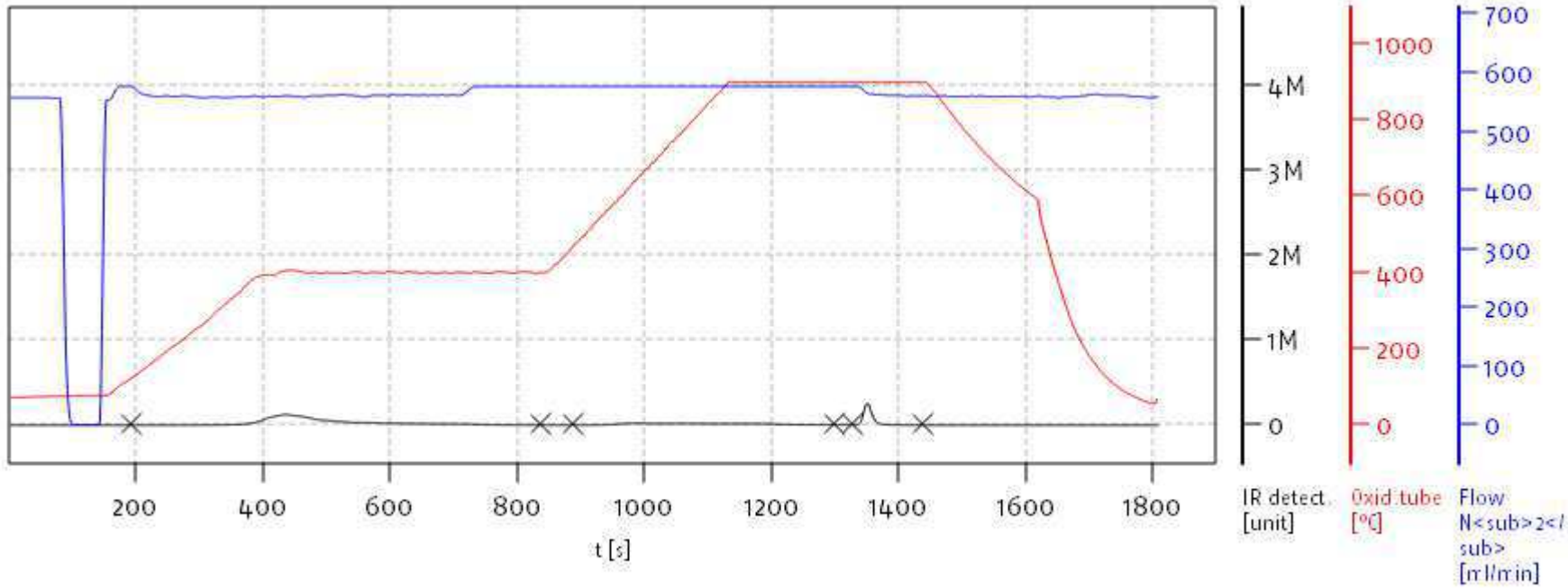
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	22L0199-60	520.90		CARBON	12/23/2022 2:27 AM	bl	0.214	615 163	0.264	0.039	157 028	194 719	0.175	0.050	0.9996	1.0000



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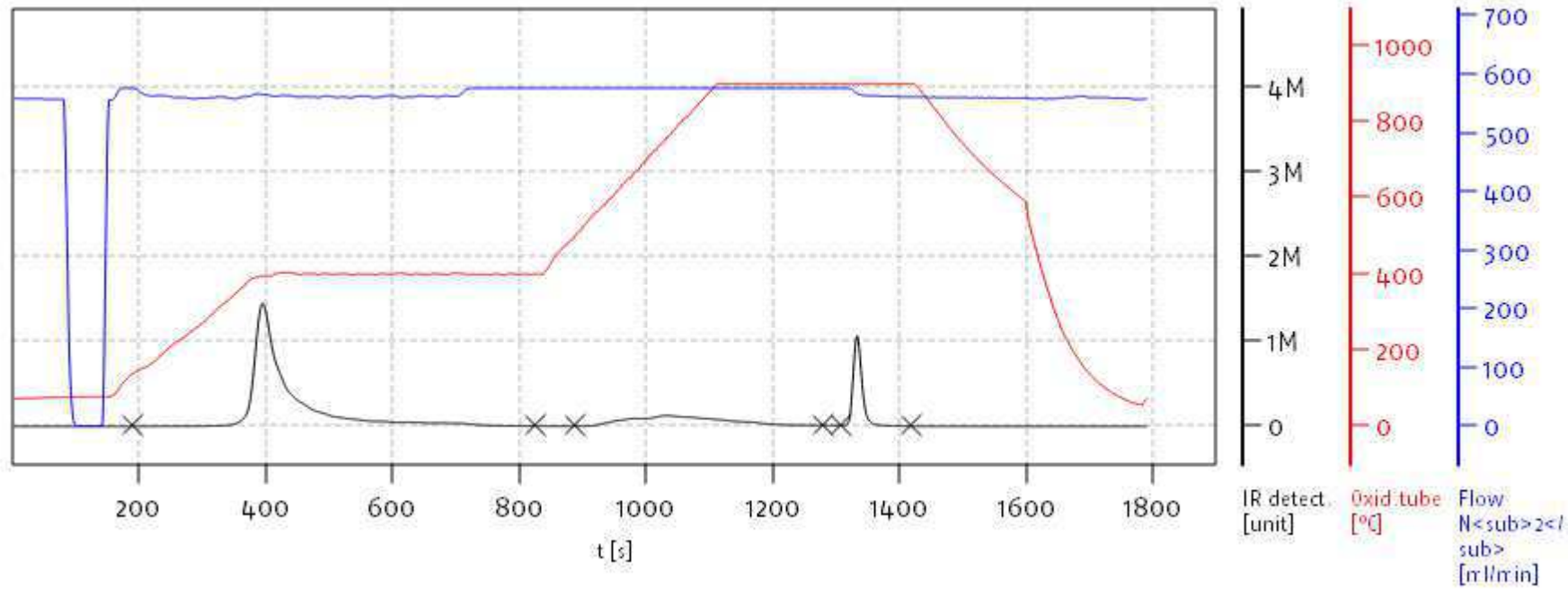
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	22L0199-61	512.60		CARBON	12/23/2022 2:57 AM	bl	1.155	3 222 442	1.411	0.190	656 662	874 918	0.965	0.256	0.9996	1.0000



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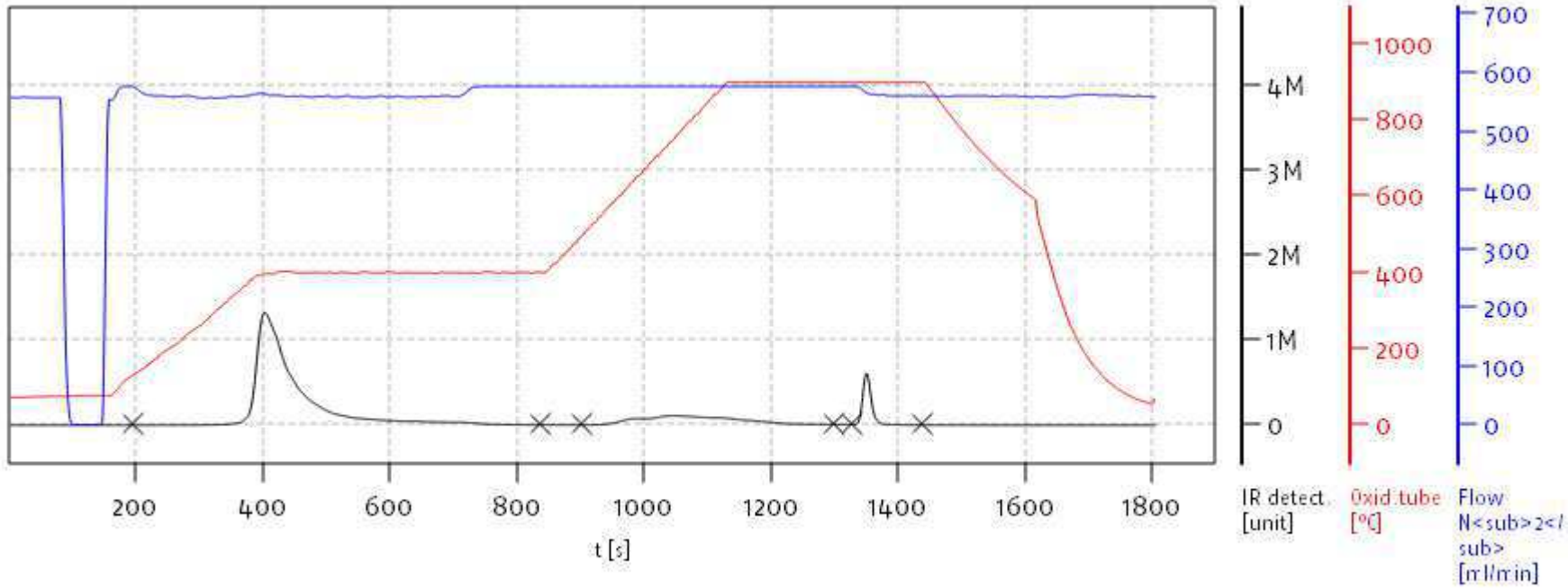
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0199-62	513.70		CARBON	12/23/2022 3:27 AM	bl	1.155	3 521 176	1.385	0.103	367 008	789 830	1.053	0.230	0.9996	1.0000



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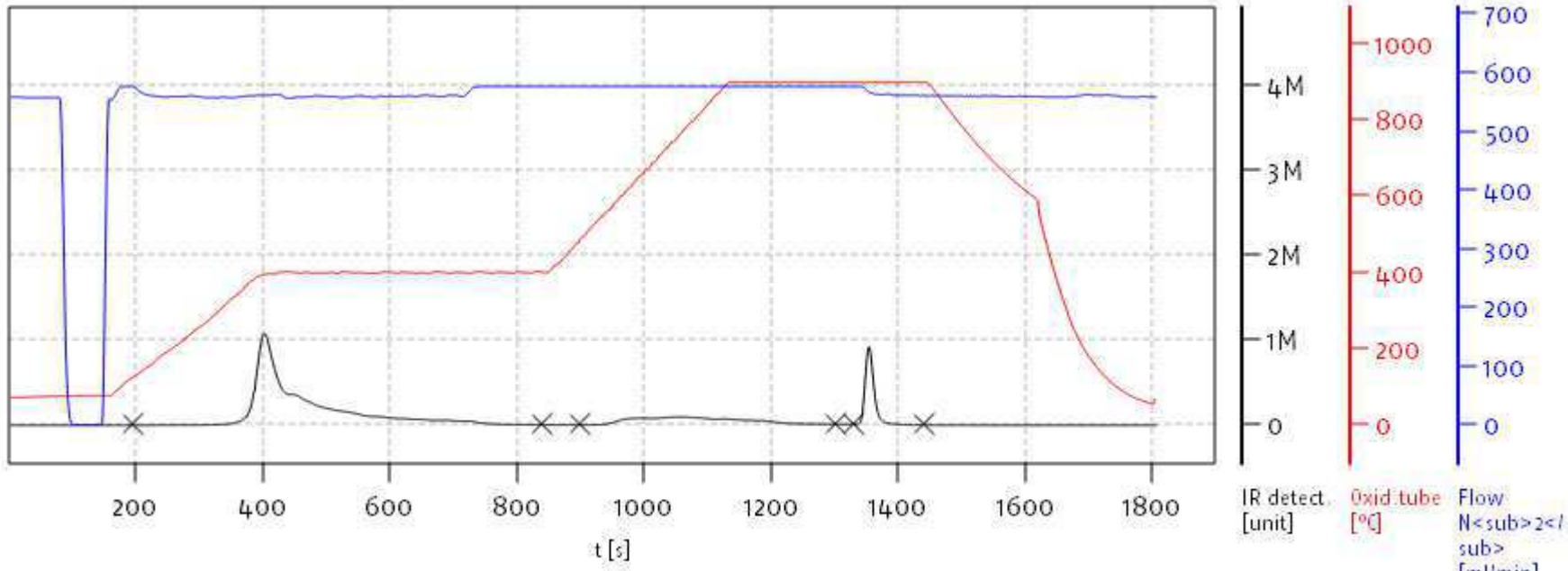
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22L0199-63	559.90		CARBON	12/23/2022 3:58 AM	bl	0.995	3 080 215	1.207	0.151	573 686	793 622	0.844	0.212	0.9996	1.0000



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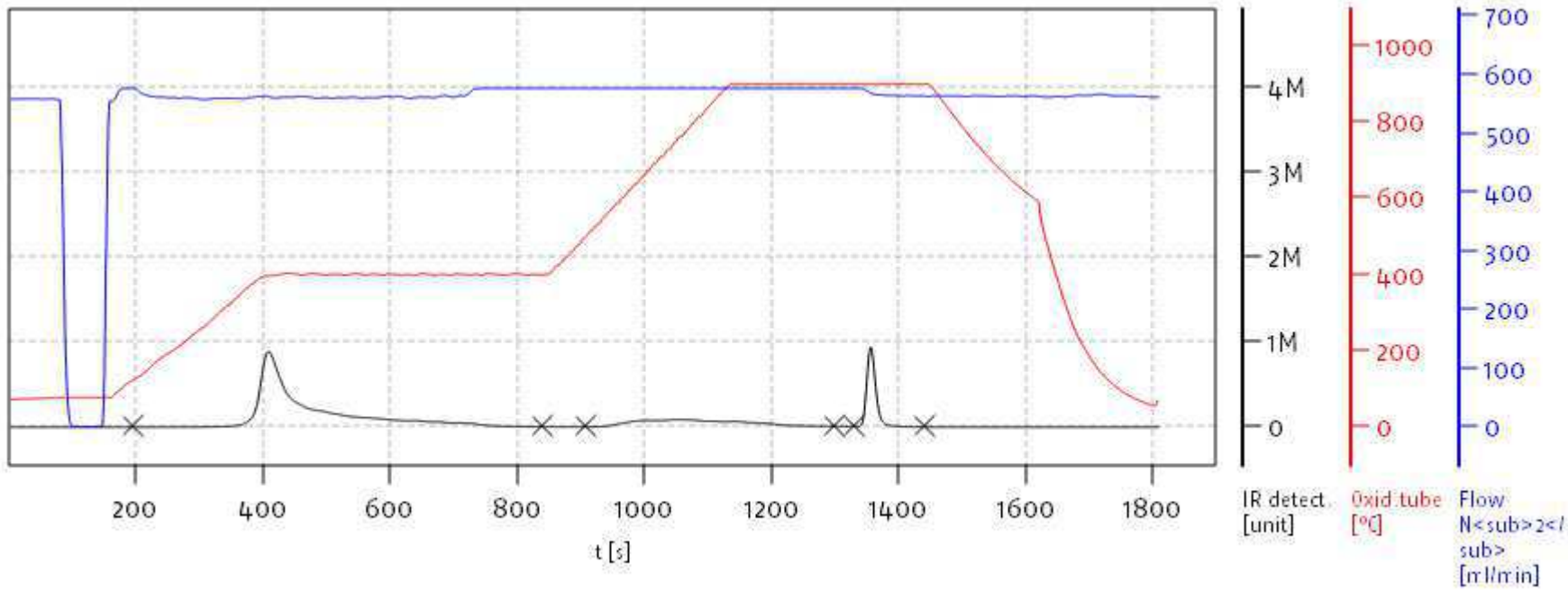
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22L0199-64	501.20		CARBON	12/23/2022 4:28 AM	bl	0.985	2 652 399	1.193	0.174	589 666	702 726	0.811	0.209	0.9996	1.0000



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Balance: BAL3
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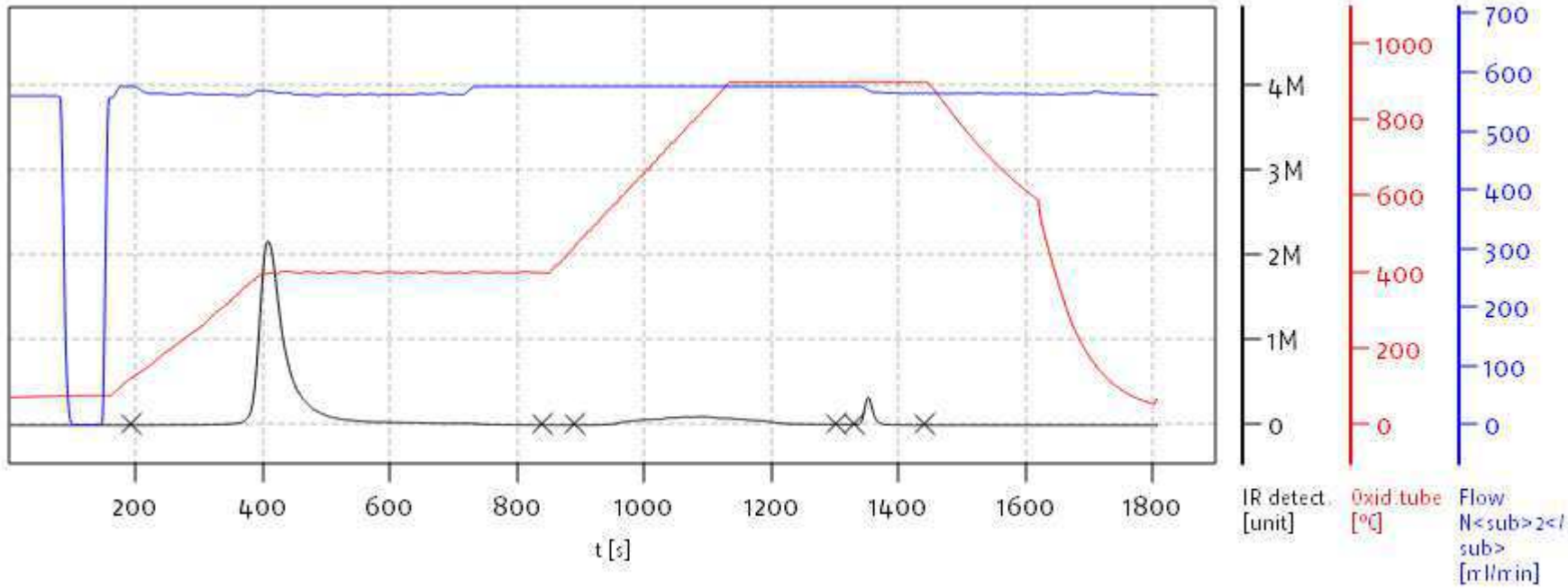
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22L0199-65	532.50		CARBON	12/23/2022 4:59 AM	bl	1.224	4 067 902	1.426	0.050	198 298	719 262	1.174	0.201	0.9996	1.0000



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Balance: BAL3
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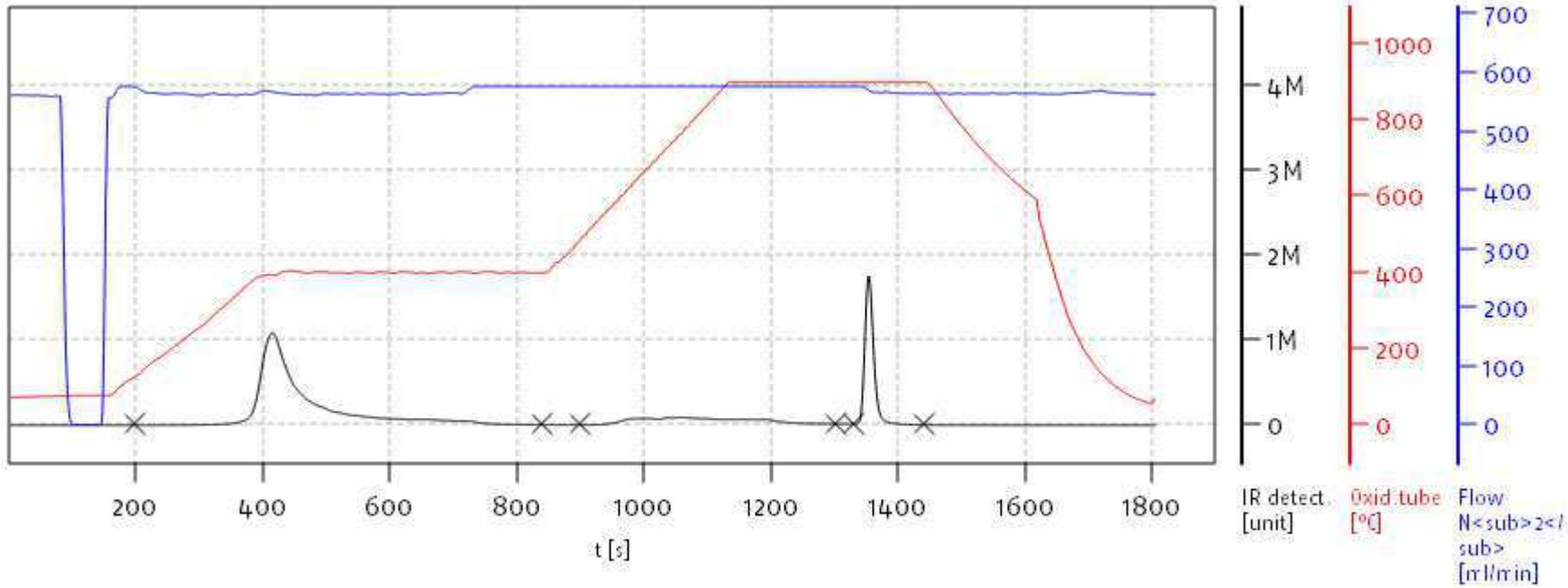
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0199-66	505.20		CARBON	12/23/2022 5:30 AM	bl	1.299	3 215 823	1.530	0.322	1 077 457	781 938	0.977	0.231	0.9996	1.0000



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Access: soliTOC superuser

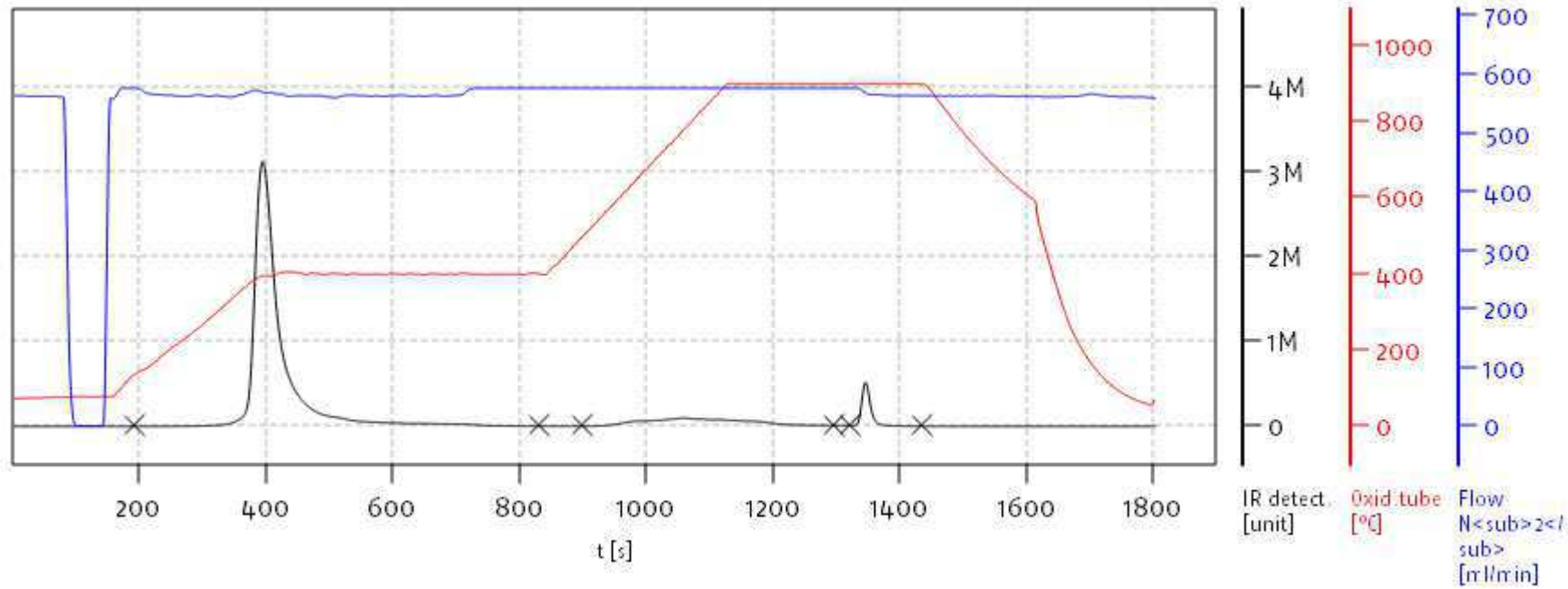
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	22L0199-67	515.80		CARBON	12/23/2022 6:00 AM	bl	1.693	5 374 820	1.902	0.089	322 719	722 412	1.604	0.209	0.9996	1.0000



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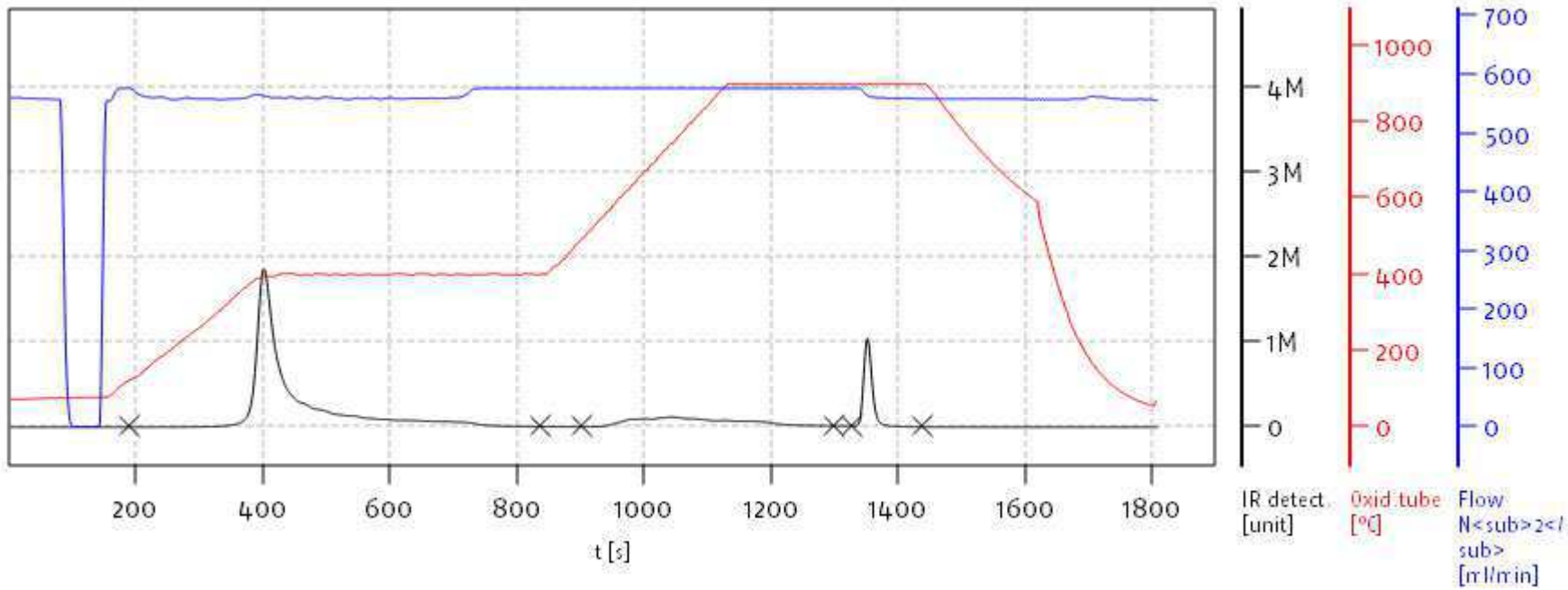
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	22L0199-68	546.70		CARBON	12/23/2022 6:31 AM	bl	1.246	3 832 272	1.493	0.169	622 404	899 887	1.077	0.247	0.9996	1.0000



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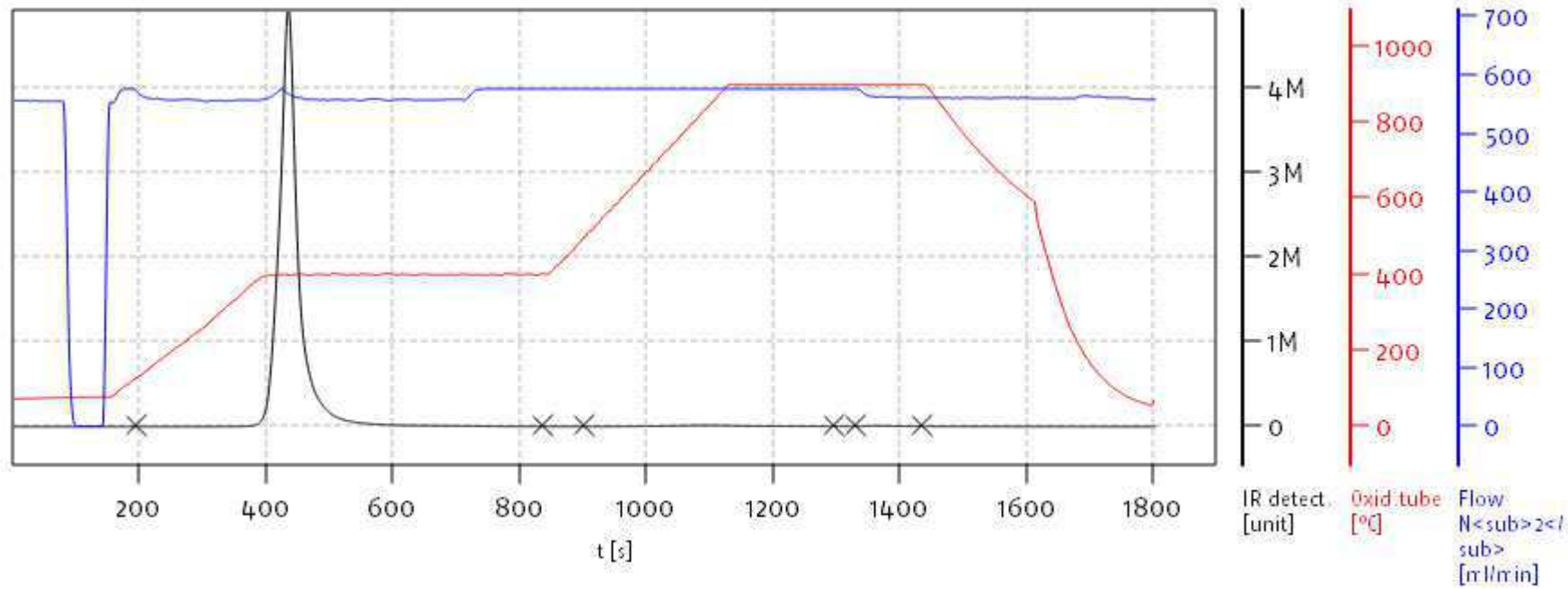
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0276-CCV7	22.20		CARBON	12/23/2022 7:01 AM	bl	44.988	6 480 772	45.517	0.000	23 495	102 431	44.988	0.529	0.9996	1.0000



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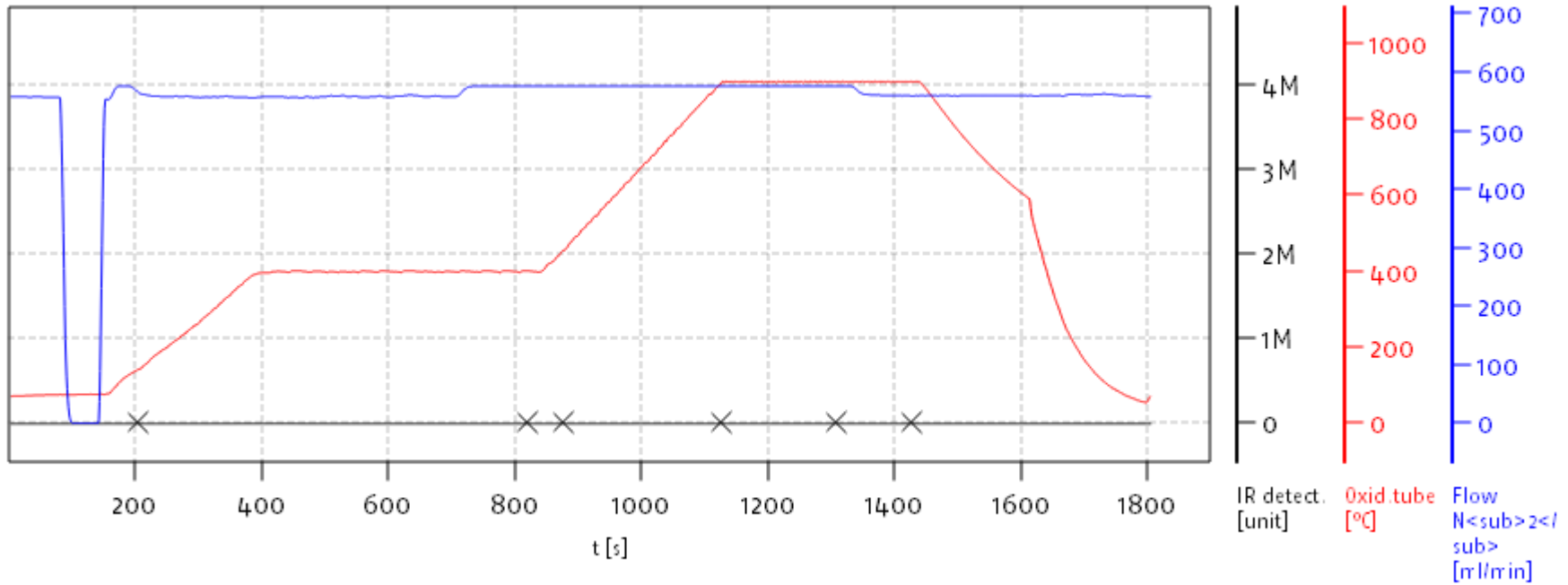
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0276-CCB7	501.70		CARBON	12/23/2022 7:31 AM	bl,C3u,C2u	0.000	5 735	0.000	0.000	709	1 366	0.000	0.000	0.9996	1.0000



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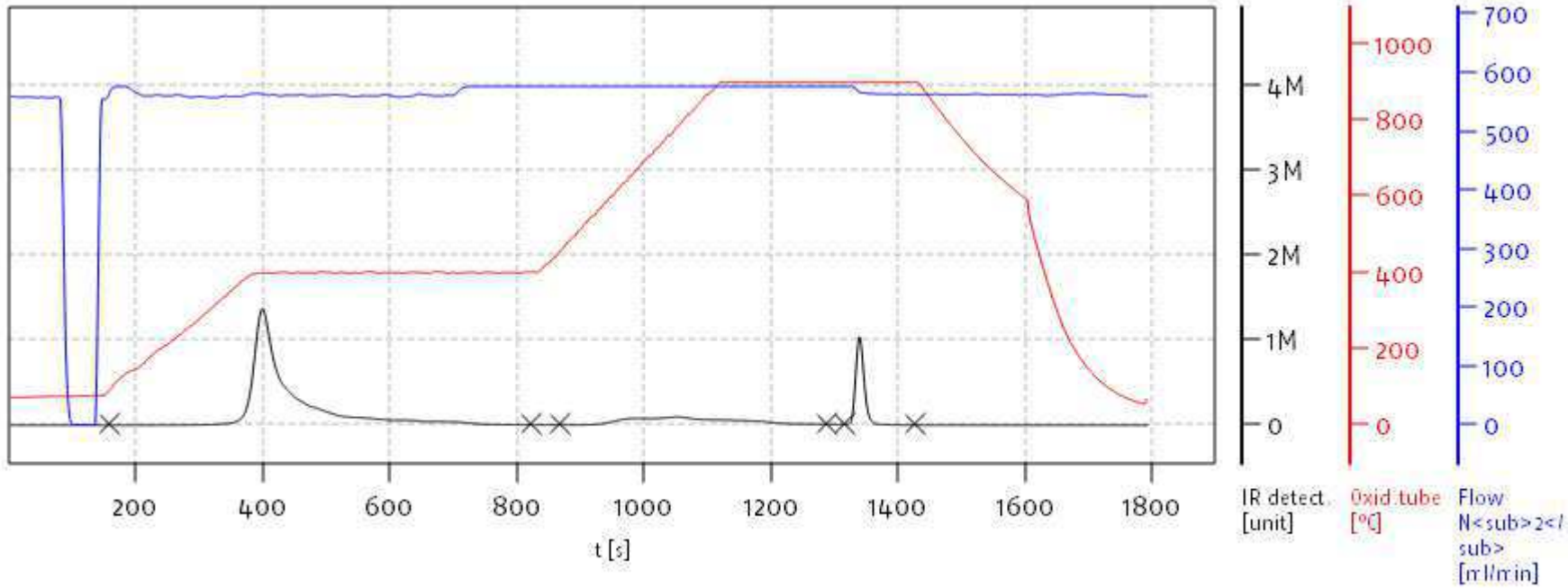
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	22L0199-69	515.50		CARBON	12/23/2022 8:02 AM	bl	1.128	3 201 439	1.337	0.175	609 886	720 450	0.953	0.208	0.9996	1.0000



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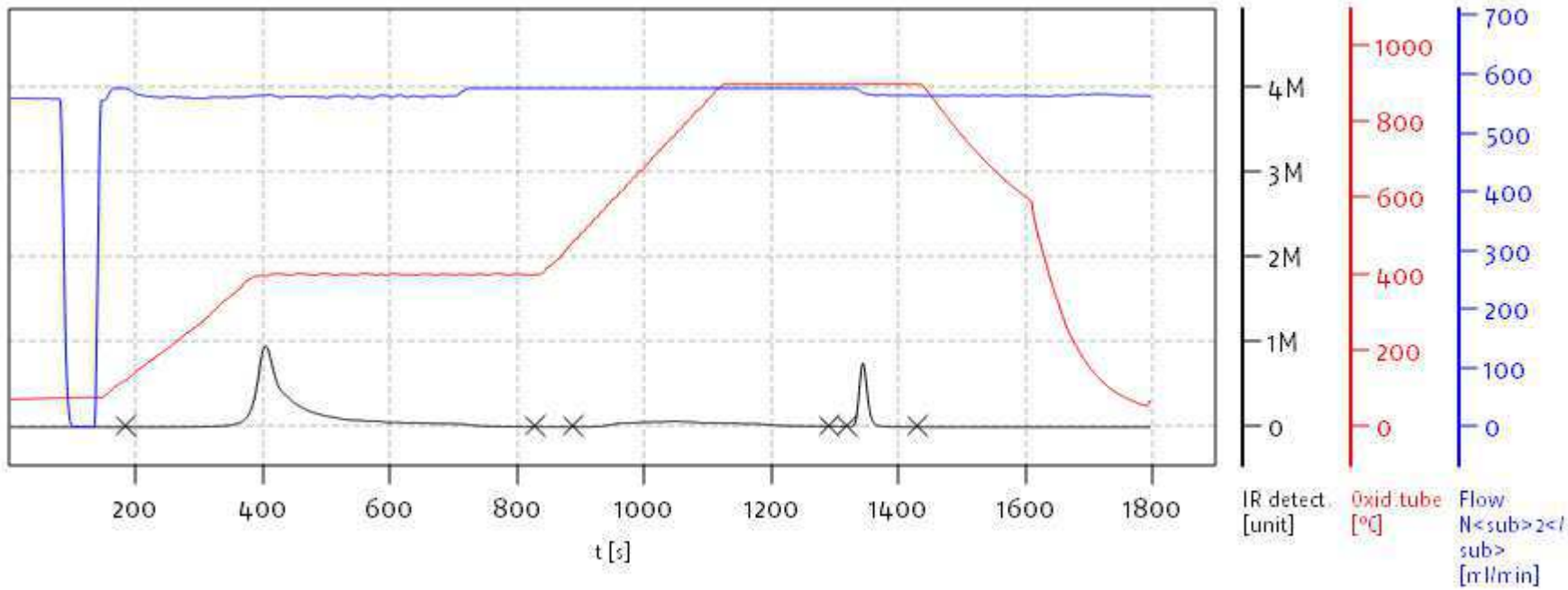
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	22L0199-70	520.30		CARBON	12/23/2022 8:32 AM	bl	0.841	2 444 836	0.991	0.121	434 250	532 952	0.719	0.151	0.9996	1.0000



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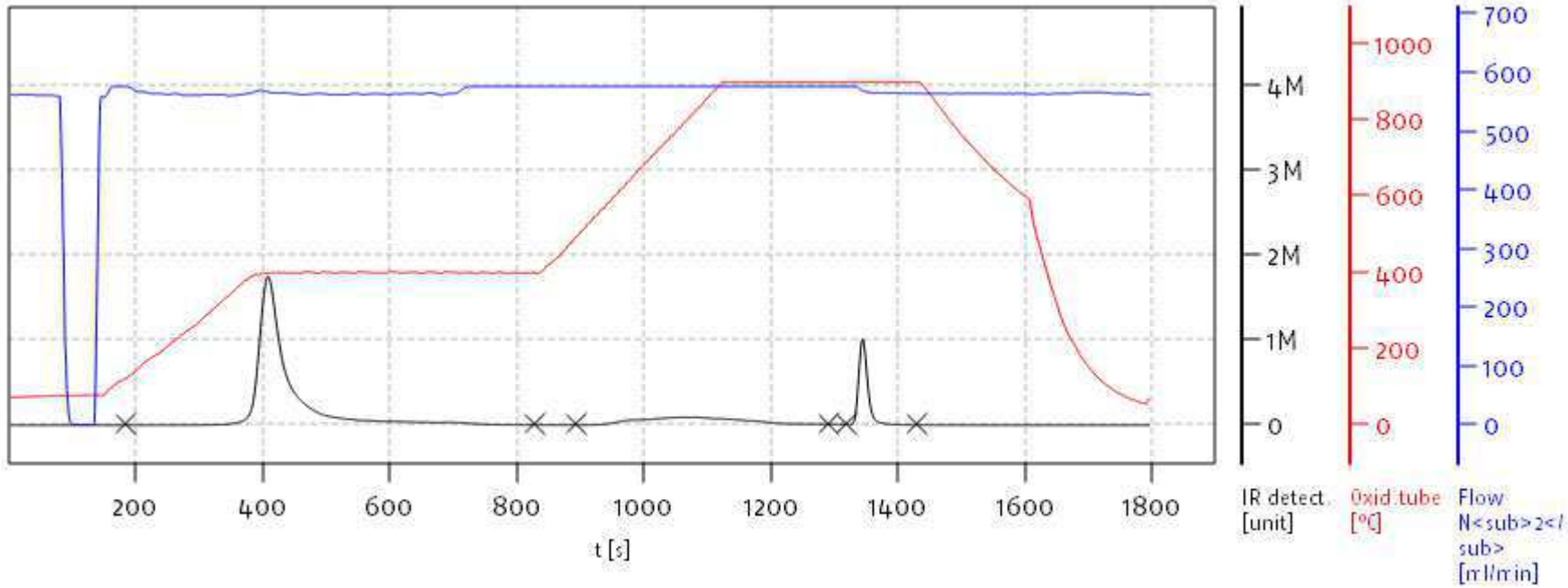
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	22L0246-01	502.40		CARBON	12/23/2022 9:02 AM	bl	1.220	3 378 930	1.429	0.187	633 650	706 025	1.033	0.209	0.9996	1.0000



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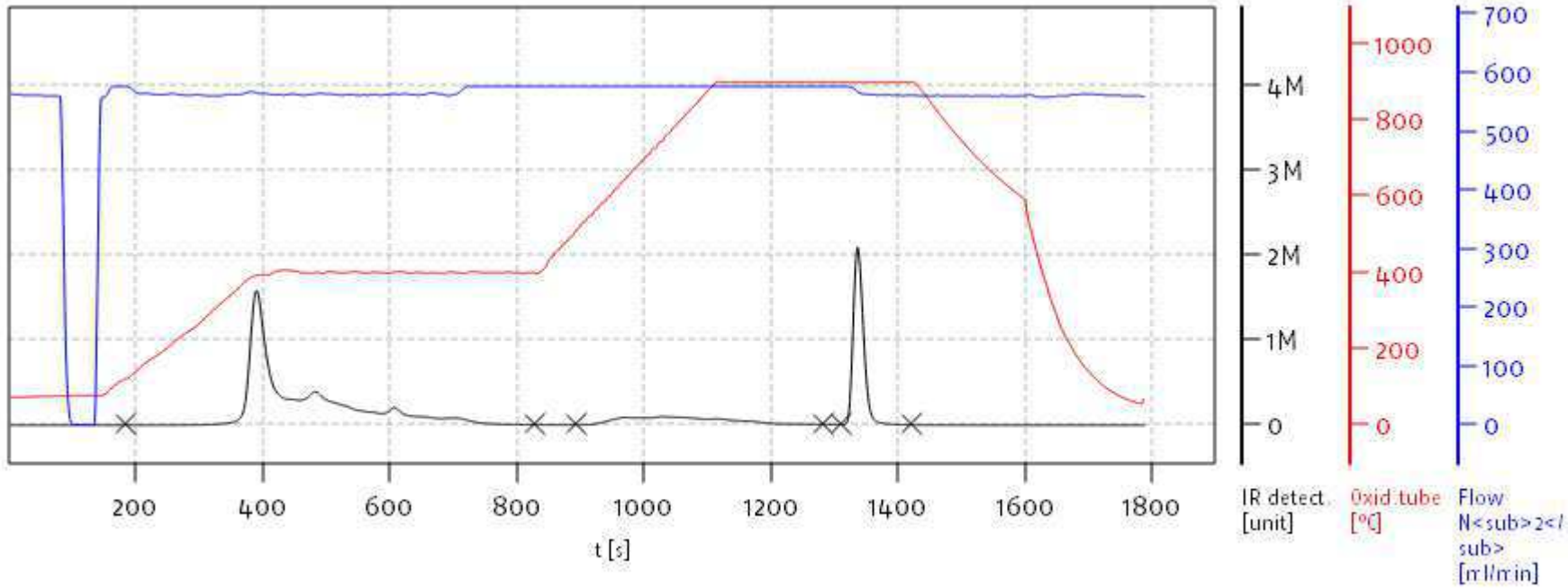
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	22L0246-02	500.50		CARBON	12/23/2022 9:33 AM	bl	1.704	4 074 295	1.933	0.452	1 488 393	768 196	1.251	0.229	0.9996	1.0000



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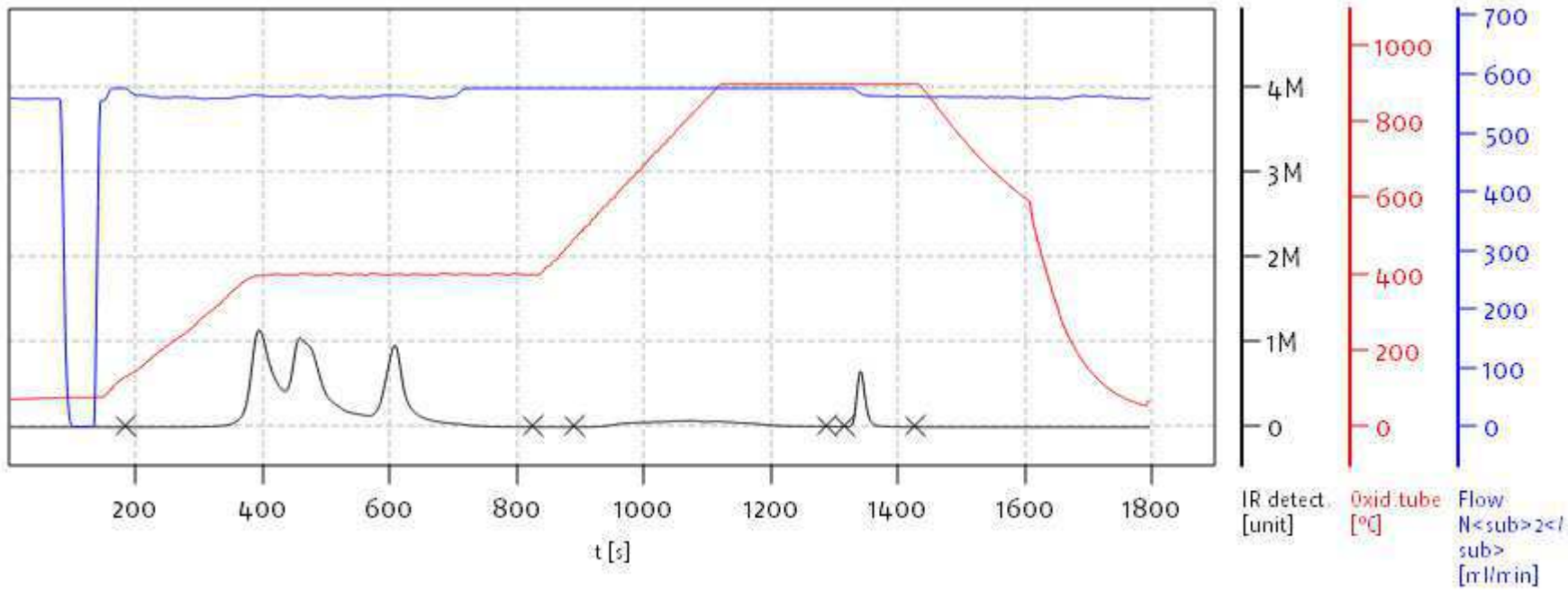
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	22L0246-03	519.00		CARBON	12/23/2022 10:03 AM	bl	1.796	5 678 475	1.957	0.111	398 033	565 507	1.685	0.161	0.9996	1.0000



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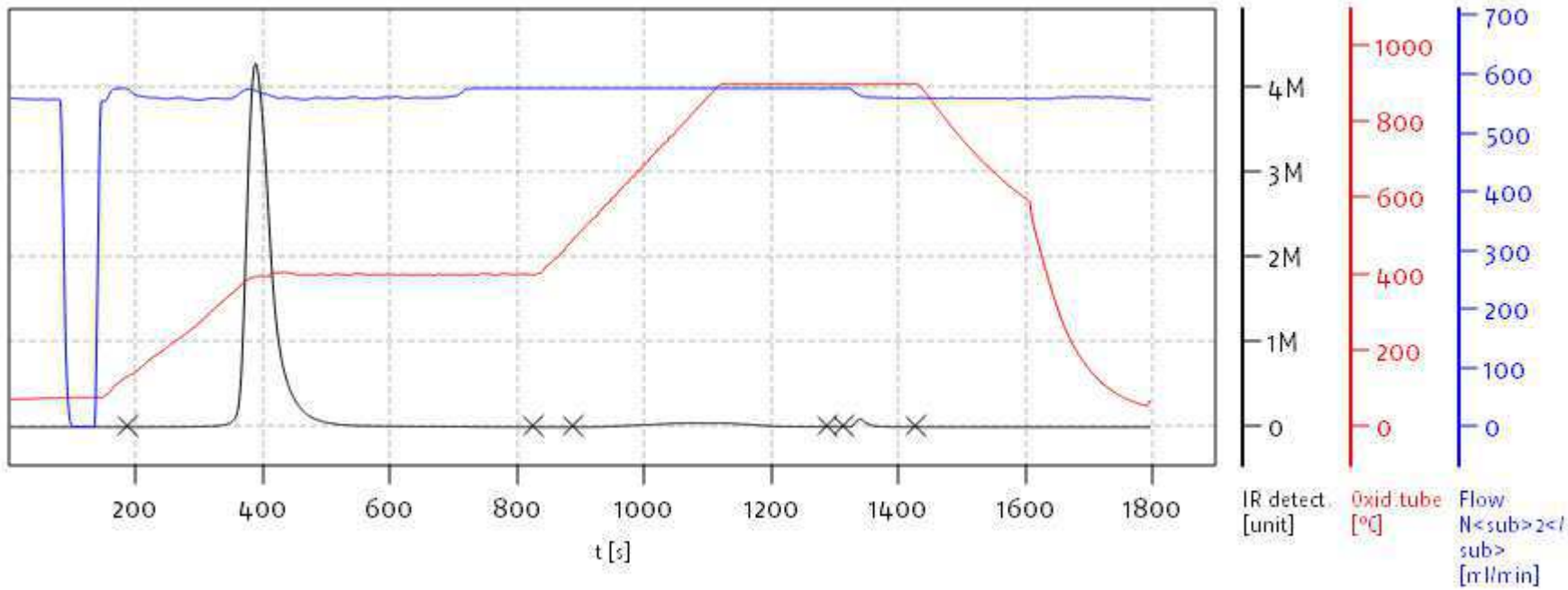
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	22L0246-04	511.90		CARBON	12/23/2022 10:33 AM	bl	2.188	7 213 802	2.282	0.015	77 433	336 623	2.173	0.094	0.9996	1.0000



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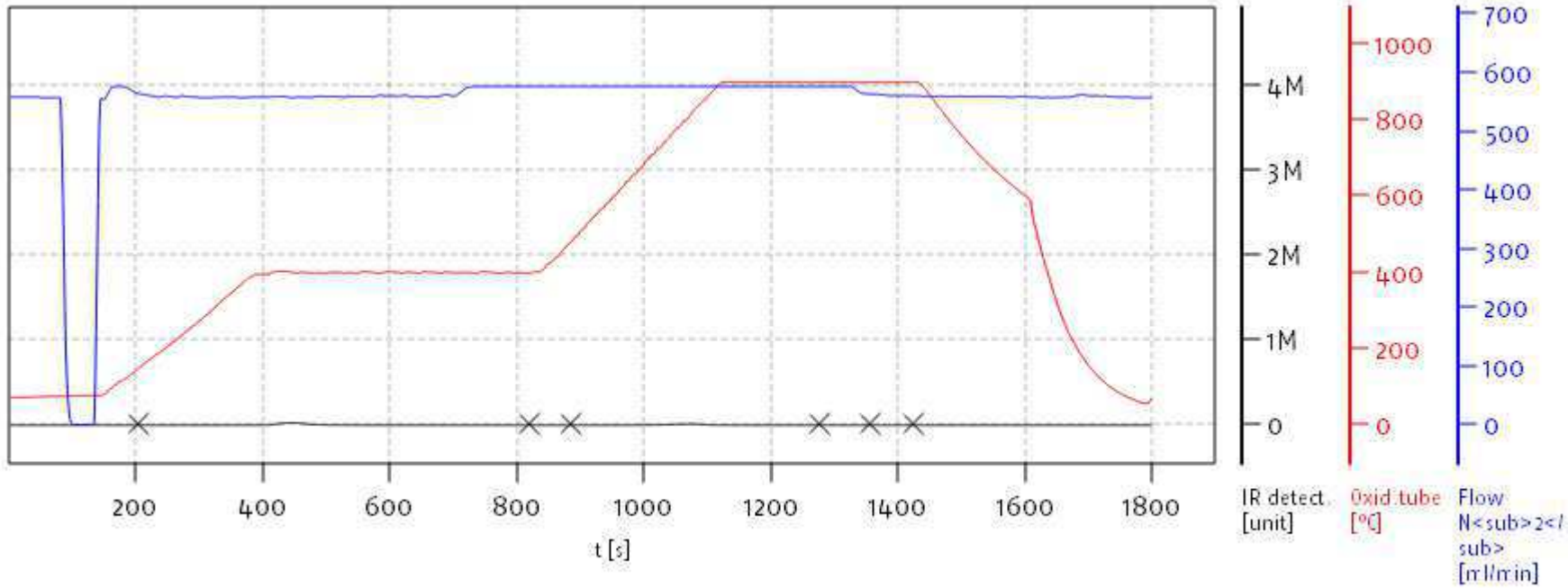
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	BKL0502-MRL1	506.10		CARBON	12/23/2022 11:04 AM	bl,C2u	0.010	59 988	0.013	0.000	187	34 271	0.010	0.002	0.9996	1.0000



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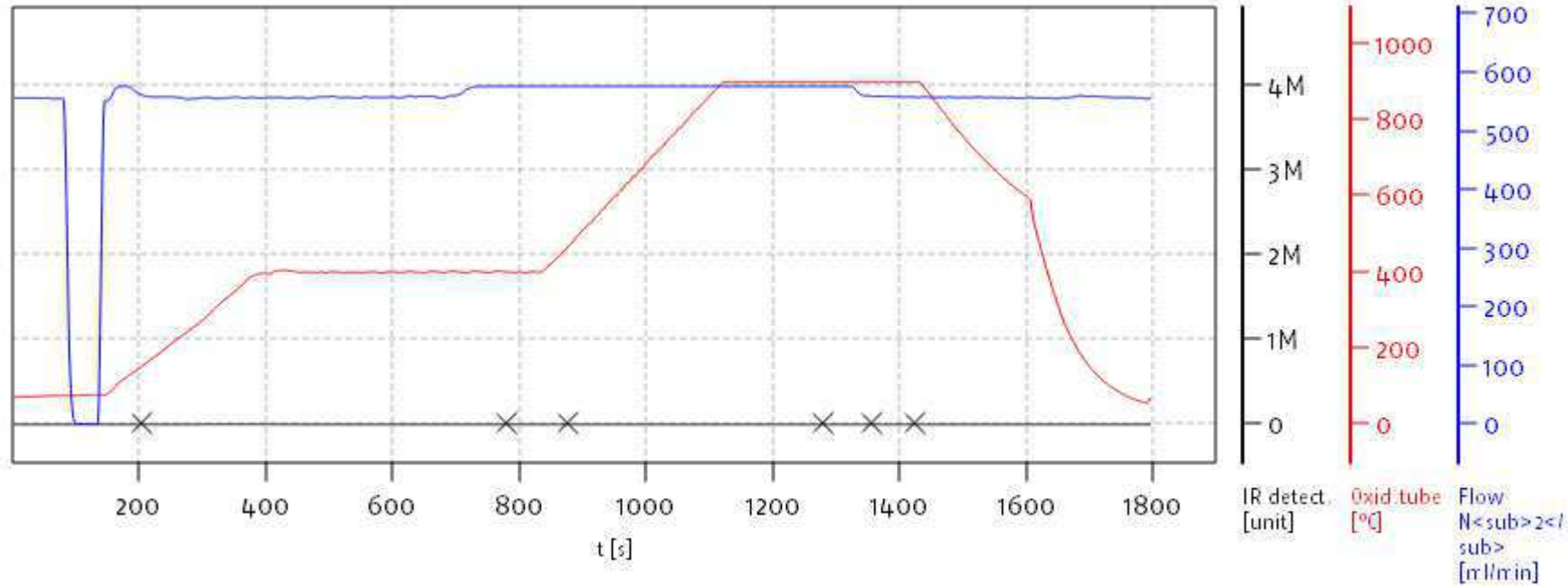
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/23/2022 11:34 AM	bl	0.000	10 730	0.000	0.000	251	1 382	0.000	0.000	0.9996	1.0000



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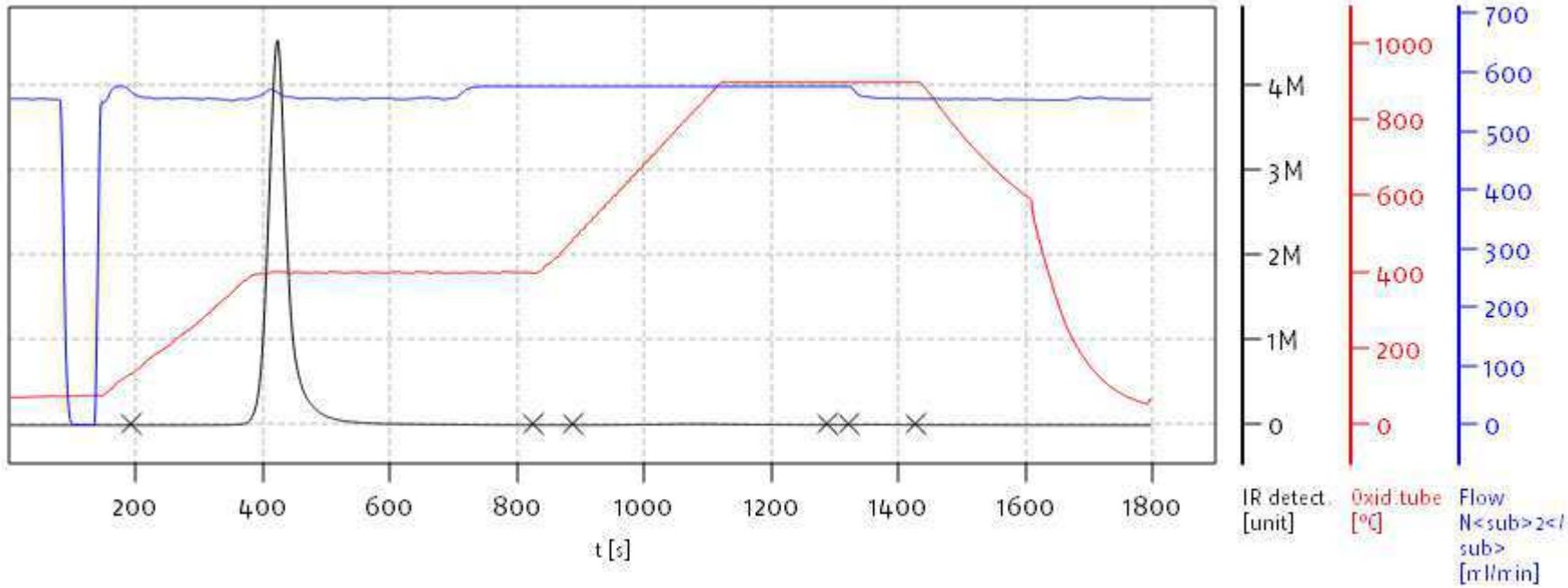
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	21.30		CARBON	12/23/2022 12:05 PM	bl	44.446	6 248 598	44.945	0.000	19 280	95 270	44.446	0.500	0.9829	1.0000



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EXCELLENCE IN ELEMENTS

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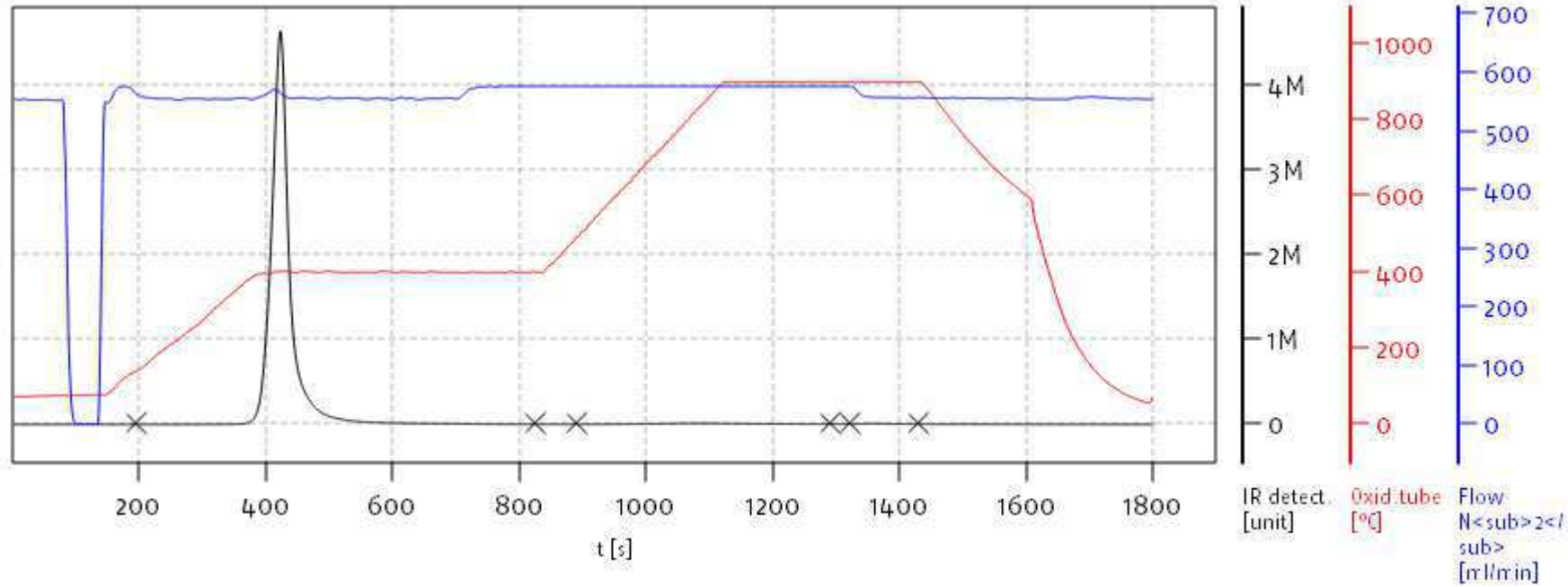
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	20.20		CARBON	12/23/2022 12:35 PM	bl	44.446	5 816 448	44.994	0.000	26 412	98 137	44.446	0.549	1.0017	1.0000



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Soli TOC Cube, Carbon
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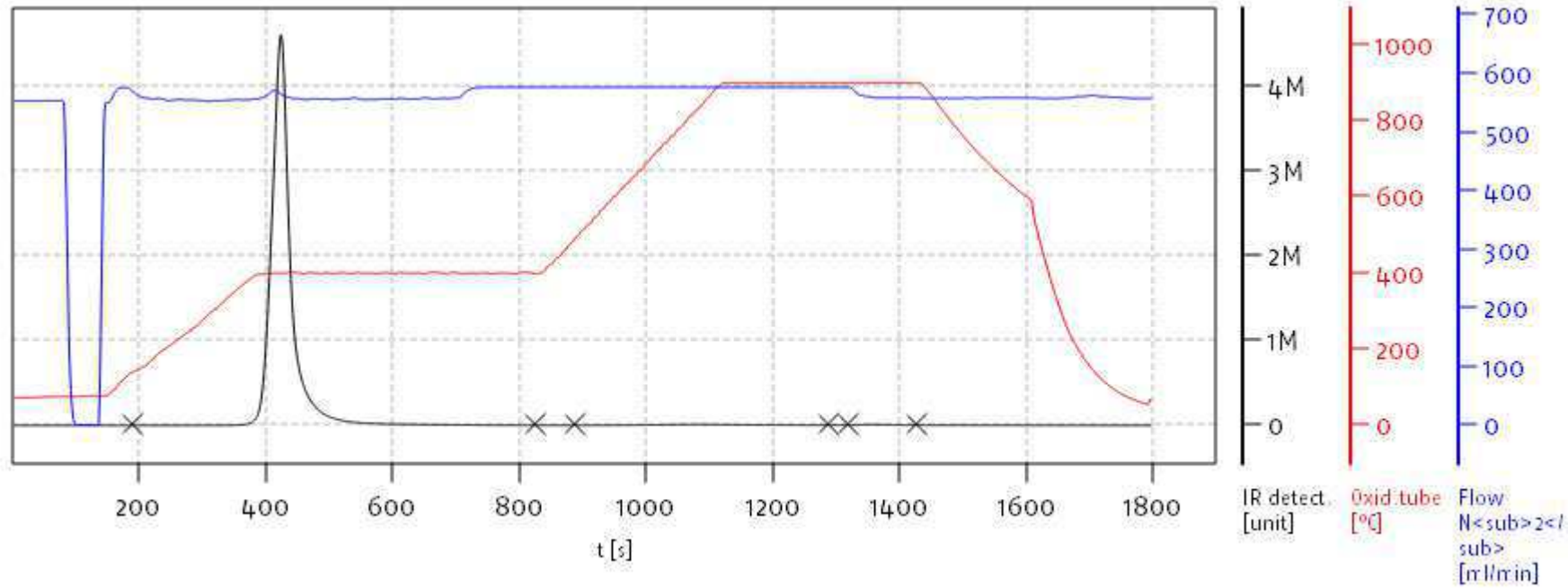
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0276-CCV8	20.40		CARBON	12/23/2022 1:05 PM	bl	45.008	6 003 848	45.441	0.000	24 284	83 633	45.008	0.433	0.9923	1.0000



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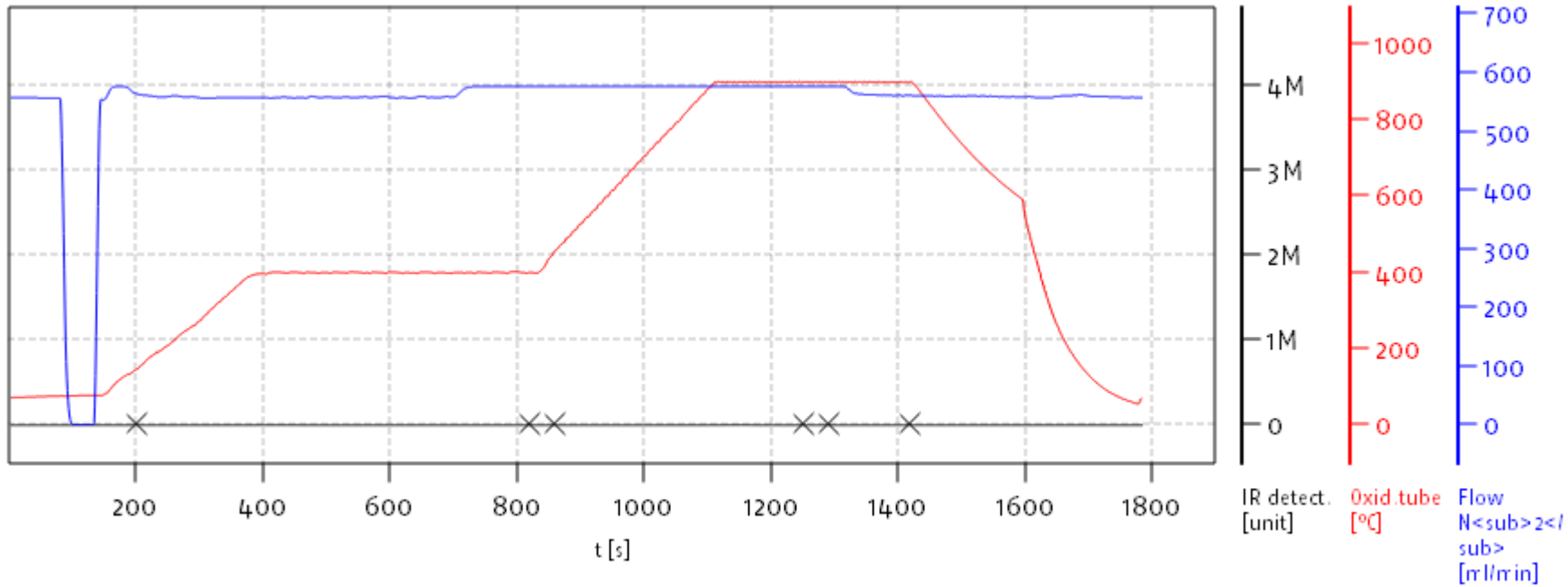
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0276-CCB8	518.50		CARBON	12/23/2022 1:35 PM	bl,C2u	0.000	5 039	0.000	0.000	838	5 723	0.000	0.000	0.9923	1.0000



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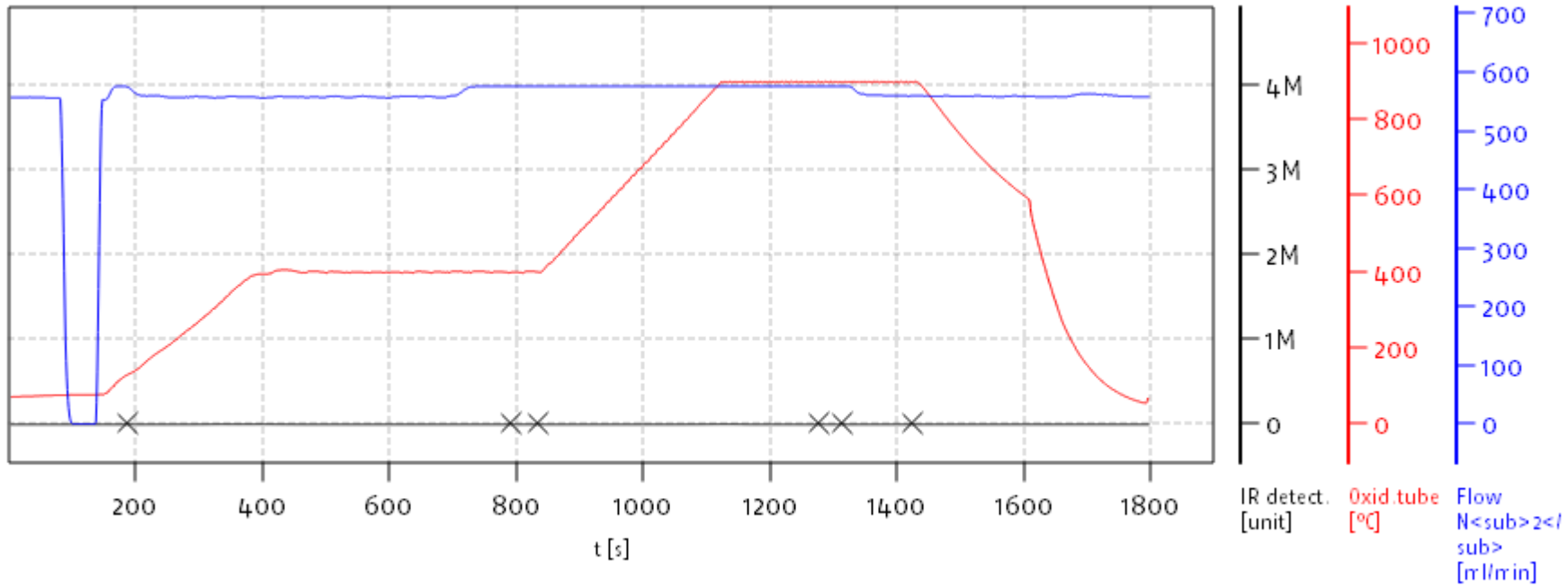
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	BKL0502-BLK1	503.70		CARBON	12/23/2022 2:06 PM	bl,C2u	0.000	13 951	0.000	0.000	784	8 974	0.000	0.000	0.9923	1.0000



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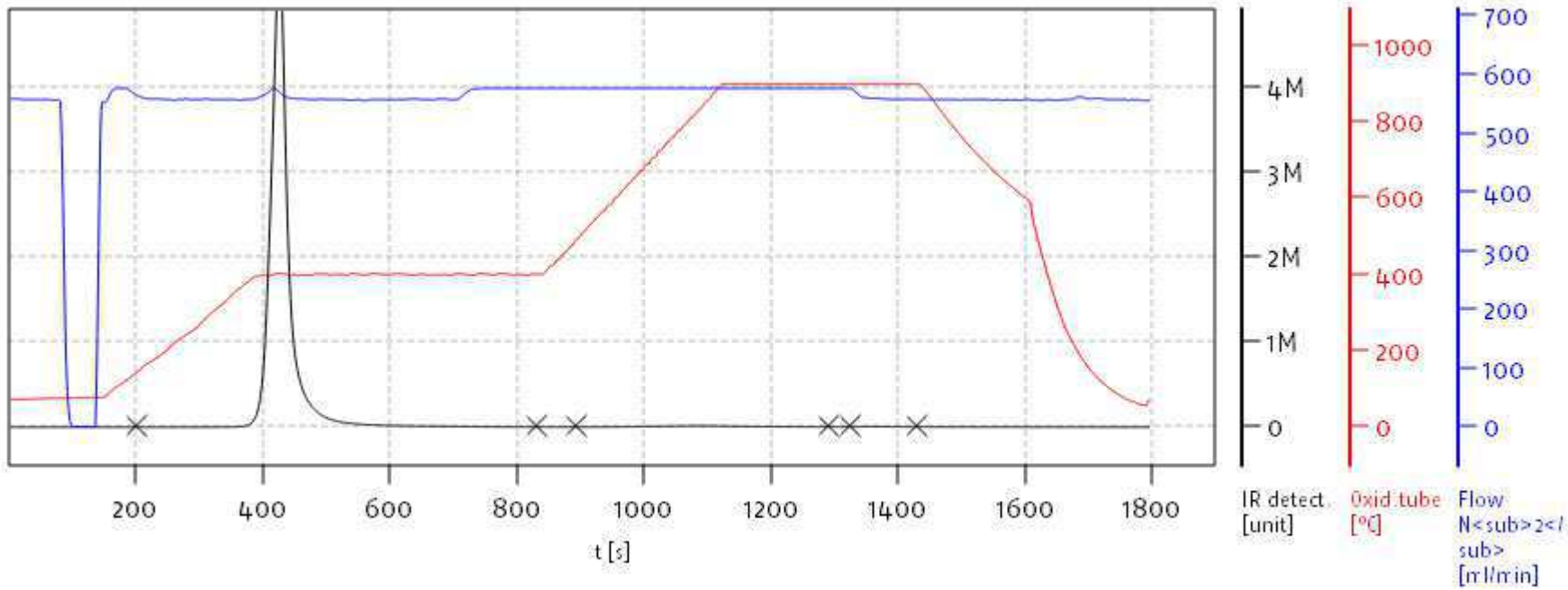
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	BKL0502-BS1	22.10		CARBON	12/23/2022 2:36 PM	bl	45.475	6 569 265	46.022	0.000	19 790	104 492	45.475	0.546	0.9923	1.0000



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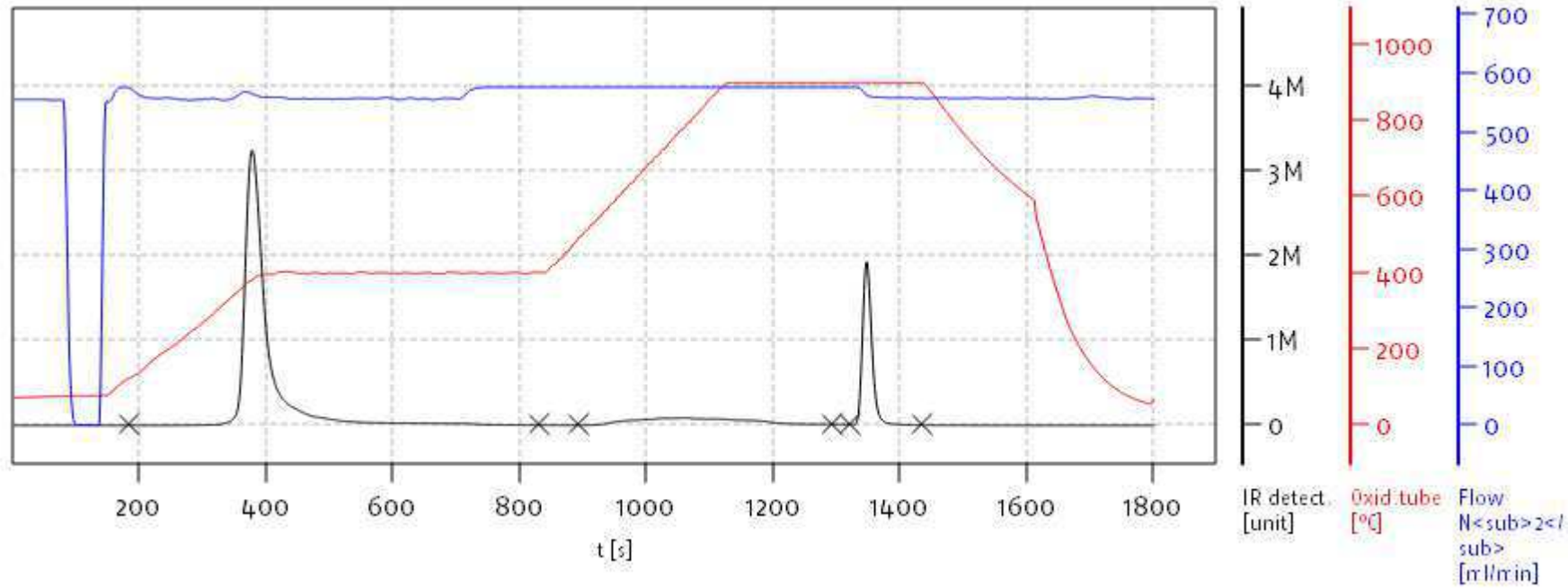
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	BKL0502-SRM1	304.60		CARBON	12/23/2022 3:07 PM	bl	3.009	4 759 673	3.367	0.622	1 251 374	729 778	2.387	0.357	0.9923	1.0000



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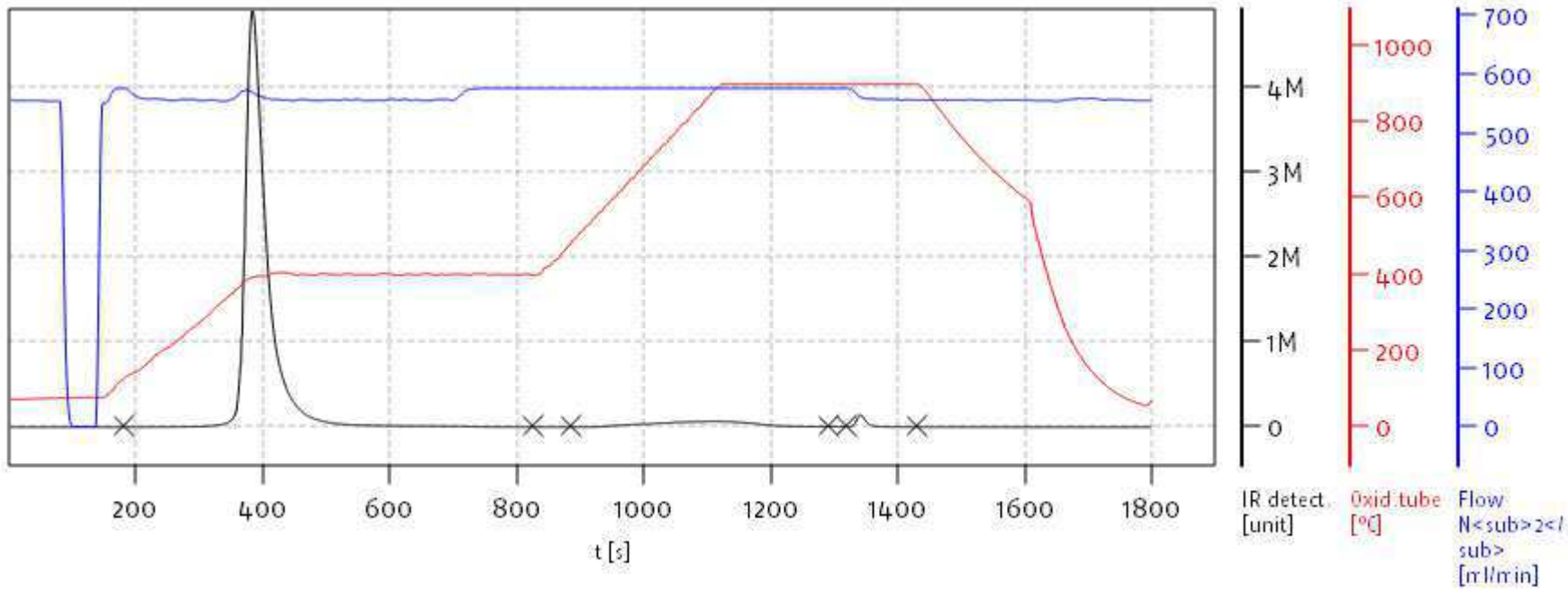
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0246-05	508.00		CARBON	12/23/2022 3:37 PM	bl	2.186	7 185 531	2.325	0.022	97 775	482 697	2.165	0.139	0.9923	1.0000



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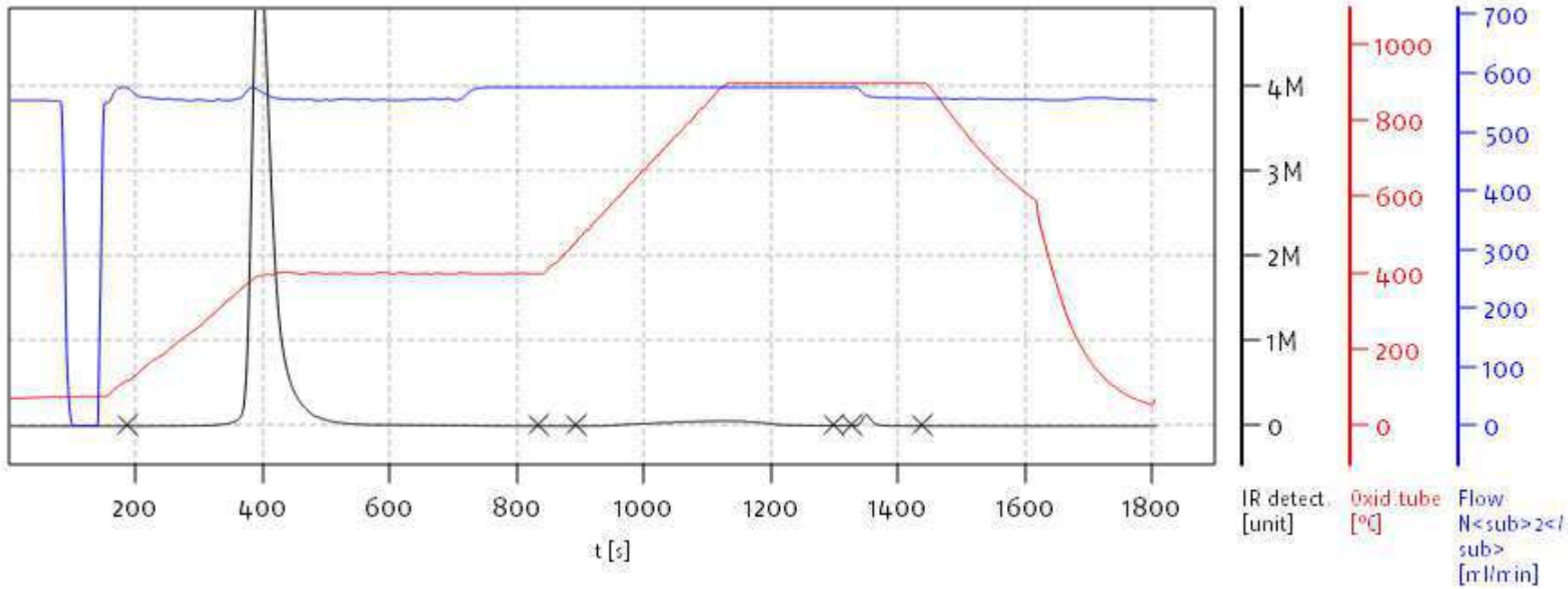
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	BKL0502-DUP1	553.10		CARBON	12/23/2022 4:08 PM	bl	2.255	8 078 026	2.370	0.019	92 924	439 344	2.236	0.116	0.9923	1.0000



Name:

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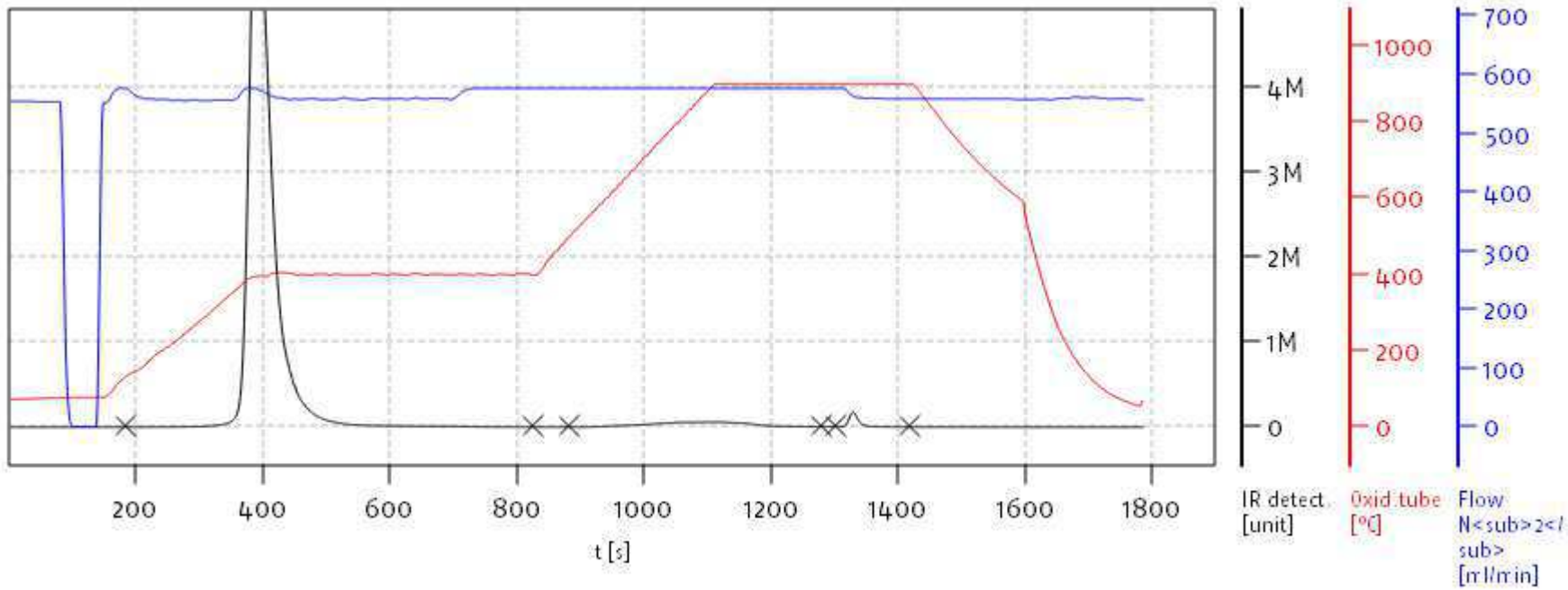
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	BKL0502-MS1	546.60	0.0092	CARBON	12/23/2022 4:38 PM	bl,C1o	2.900	10 253 584	3.011	0.026	119 790	416 979	2.874	0.111	0.9923	1.0000



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Serial No: 0300.181017
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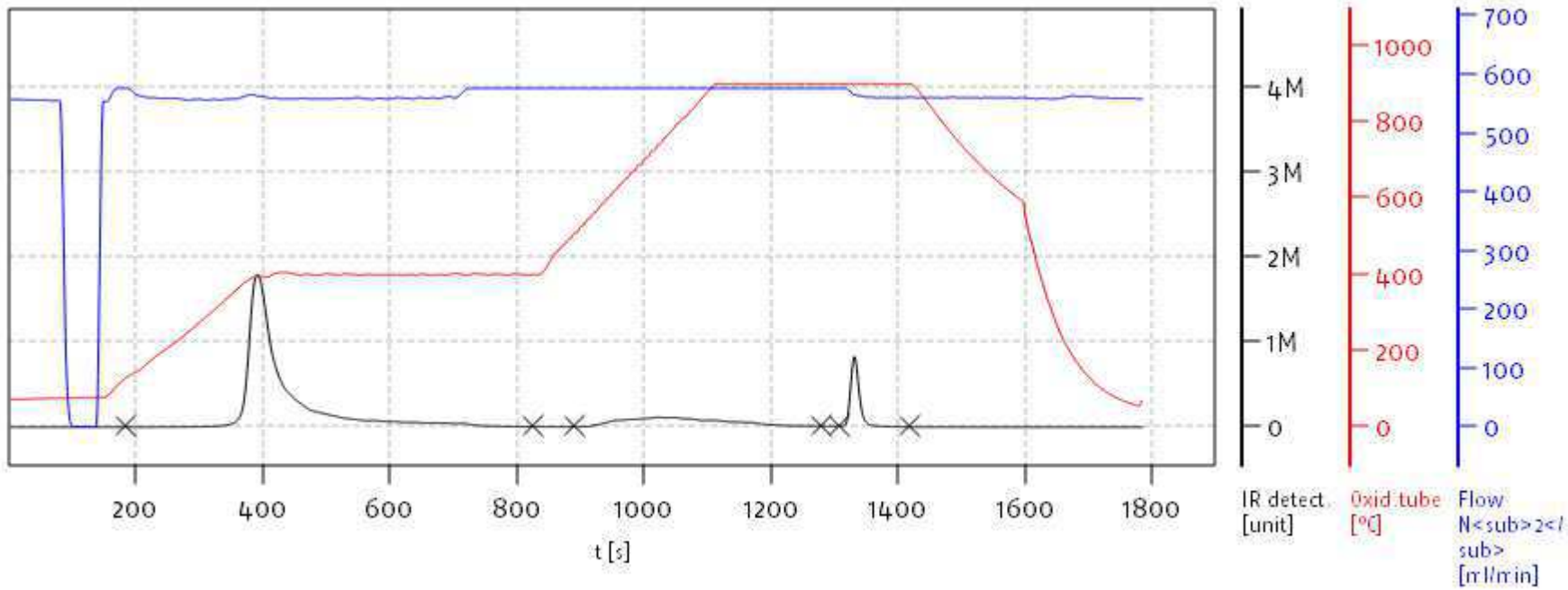
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	22L0246-06	528.90		CARBON	12/23/2022 5:08 PM	bl	1.294	3 998 430	1.540	0.140	505 528	868 860	1.154	0.247	0.9923	1.0000



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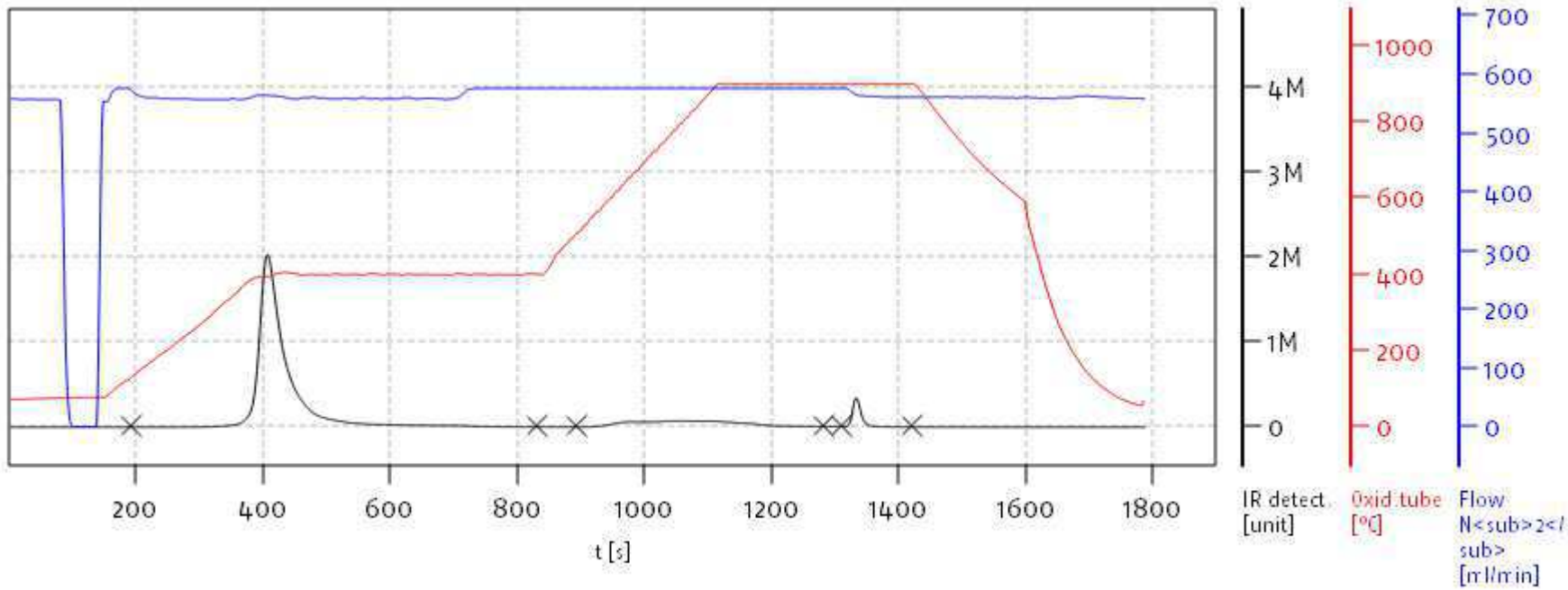
Date: Sat Dec 24 09:27:56 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	22L0246-07	568.50		CARBON	12/23/2022 5:38 PM	bl	1.036	3 681 991	1.191	0.049	205 223	593 911	0.988	0.154	0.9923	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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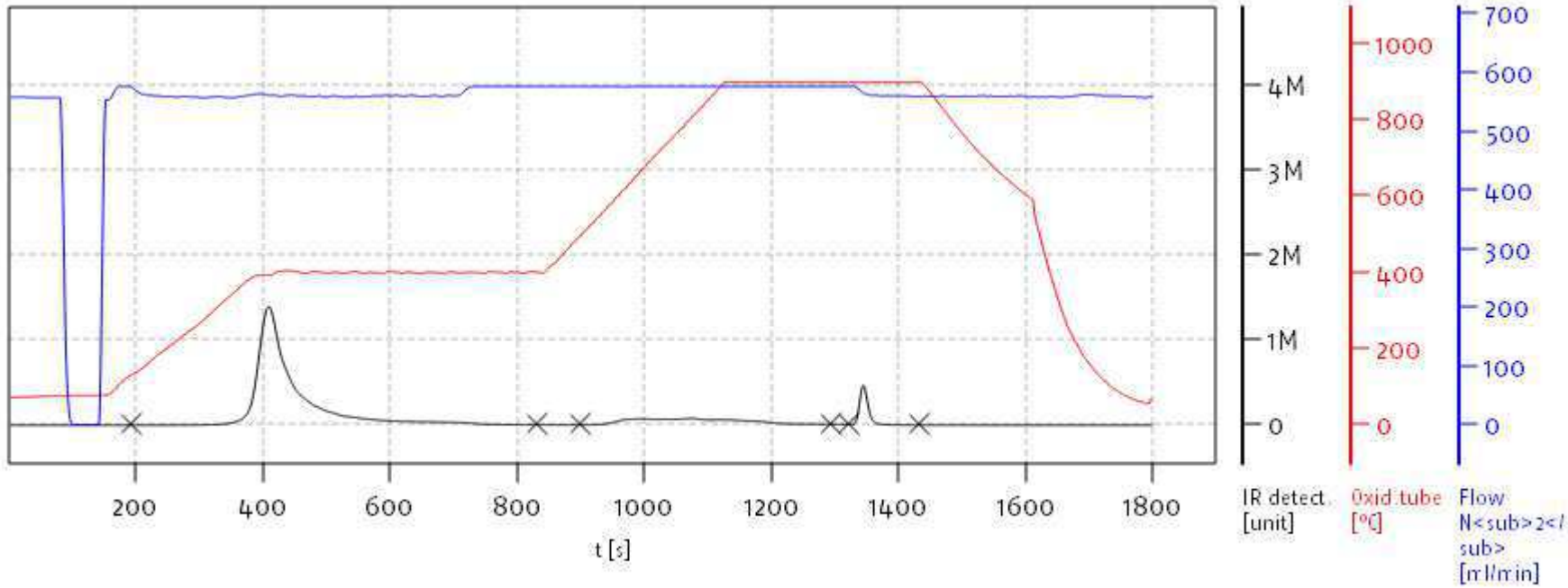
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0246-08	598.60		CARBON	12/23/2022 6:09 PM	bl	0.937	3 421 115	1.100	0.066	282 836	654 277	0.871	0.162	0.9923	1.0000



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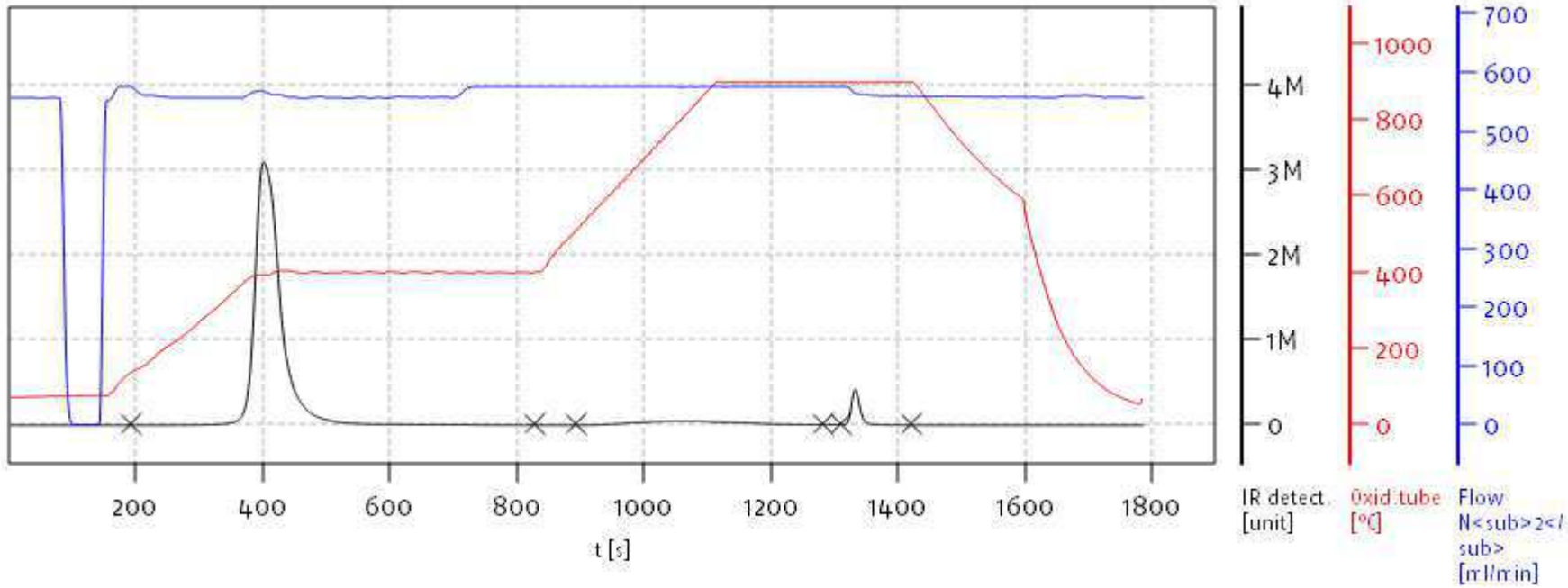
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	22L0246-09	568.50		CARBON	12/23/2022 6:39 PM	bl	1.522	5 435 898	1.610	0.061	249 344	349 548	1.462	0.088	0.9923	1.0000



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soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
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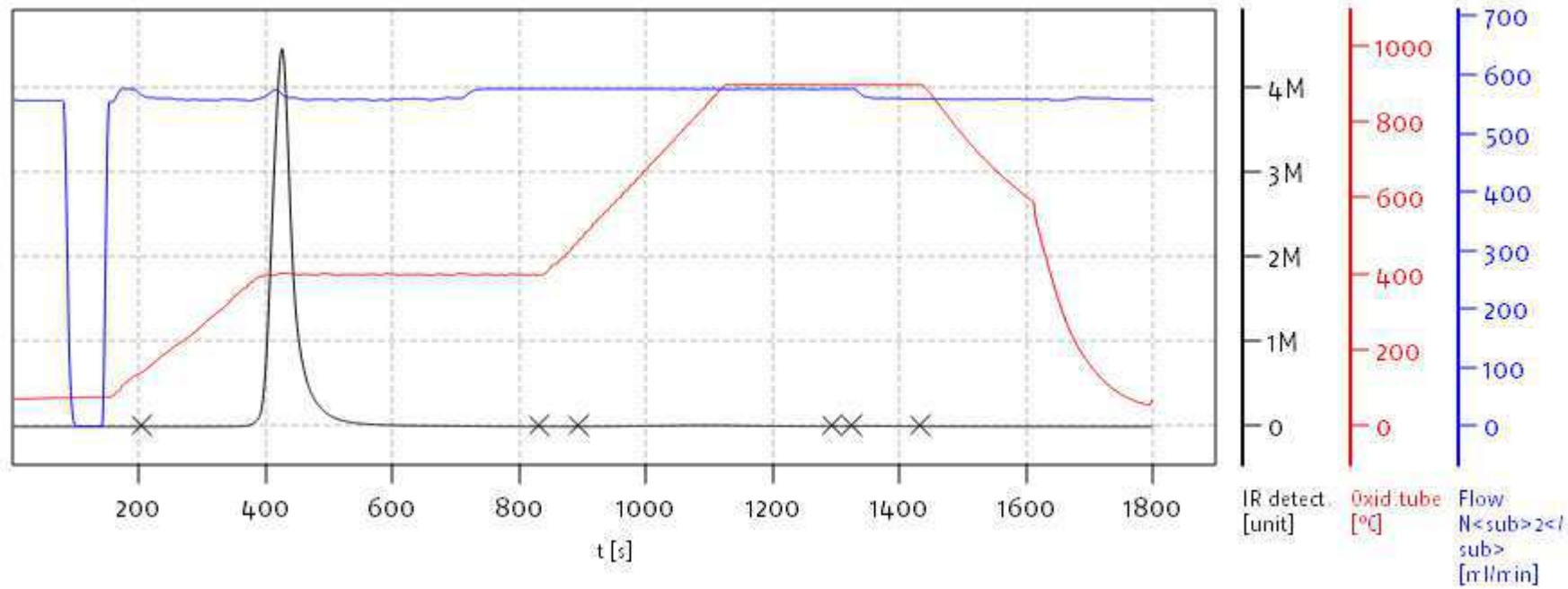
elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
112	23	SKL0276-CCV9	21.50		CARBON	12/23/2022 7:09 PM	bl	46.336	6 512 023	46.983	0.000	21 191	116 460	46.336	0.647	0.9923	1.0000



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Access: soliTOC superuser

Date: Sat Dec 24 09:27:56 2022

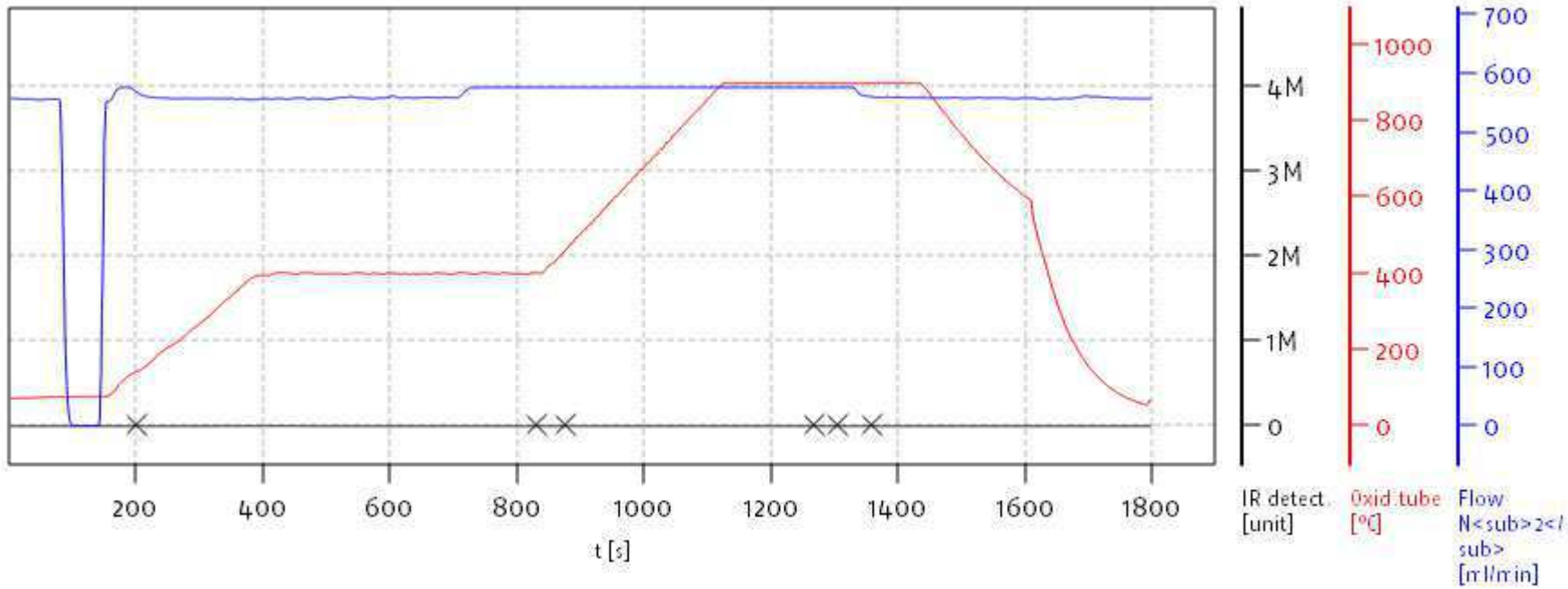
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122122DOE from: 12/24/2022 9:27 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0276-CCB9	505.00		CARBON	12/23/2022 7:39 PM	bl,C3u,C2u	0.000	8 846	0.000	0.000	355	1 925	0.000	0.000	0.9923	1.0000



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EXCELLENCE IN ELEMENTS

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0311
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Initial Cal Check	SKL0311-ICV1	CubeData_12272022@1526-003	NA	12/24/22 12:50
Initial Cal Blank	SKL0311-ICB1	CubeData_12272022@1526-004	NA	12/24/22 13:21
LDW22-IT810B-FD	22L0246-10	CubeData_12272022@1526-005	Solid	12/24/22 13:51
LDW22-IT810D	22L0246-11	CubeData_12272022@1526-006	Solid	12/24/22 14:21
LDW22-IT810E	22L0246-12	CubeData_12272022@1526-007	Solid	12/24/22 14:52
LDW22-IT810F	22L0246-13	CubeData_12272022@1526-008	Solid	12/24/22 15:22
LDW22-IT810G	22L0246-14	CubeData_12272022@1526-009	Solid	12/24/22 15:52
LDW22-SC779A	22L0246-15	CubeData_12272022@1526-010	Solid	12/24/22 16:23
LDW22-SC779B	22L0246-16	CubeData_12272022@1526-011	Solid	12/24/22 16:53
LDW22-SC779C	22L0246-17	CubeData_12272022@1526-012	Solid	12/24/22 17:24
LDW22-SC779D	22L0246-18	CubeData_12272022@1526-013	Solid	12/24/22 17:54
LDW22-SC779D-FD	22L0246-19	CubeData_12272022@1526-014	Solid	12/24/22 18:24
Calibration Check	SKL0311-CCV1	CubeData_12272022@1526-015	NA	12/24/22 18:55
Calibration Blank	SKL0311-CCB1	CubeData_12272022@1526-016	NA	12/24/22 19:25
LDW22-SC779E	22L0246-20	CubeData_12272022@1526-017	Solid	12/24/22 19:55
LDW22-SC779F	22L0246-21	CubeData_12272022@1526-018	Solid	12/24/22 20:26
LDW22-SC779G	22L0246-22	CubeData_12272022@1526-019	Solid	12/24/22 20:56
LDW22-SC779H	22L0246-23	CubeData_12272022@1526-020	Solid	12/24/22 21:26
LDW22-SC779I	22L0246-24	CubeData_12272022@1526-021	Solid	12/24/22 21:56
MRL Check	BKL0503-MRL1	CubeData_12272022@1526-022	Solid	12/24/22 22:27
Blank	BKL0503-BLK1	CubeData_12272022@1526-023	Solid	12/24/22 22:57
LCS	BKL0503-BS1	CubeData_12272022@1526-024	Solid	12/24/22 23:28
Reference	BKL0503-SRM1	CubeData_12272022@1526-025	Solid	12/24/22 23:58
LDW22-SC779J	22L0246-25	CubeData_12272022@1526-026	Solid	12/25/22 00:29
Calibration Check	SKL0311-CCV2	CubeData_12272022@1526-027	NA	12/25/22 00:59
Calibration Blank	SKL0311-CCB2	CubeData_12272022@1526-028	NA	12/25/22 01:30
LDW22-SC777A	22L0246-26	CubeData_12272022@1526-031	Solid	12/25/22 03:01
LDW22-SC777B	22L0246-27	CubeData_12272022@1526-032	Solid	12/25/22 03:31
LDW22-SC777C	22L0246-28	CubeData_12272022@1526-033	Solid	12/25/22 04:02

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0311
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW22-SC777D	22L0246-29	CubeData_12272022@1526-034	Solid	12/25/22 04:32
LDW22-SC777E	22L0246-30	CubeData_12272022@1526-035	Solid	12/25/22 05:03
LDW22-SC777F	22L0246-31	CubeData_12272022@1526-036	Solid	12/25/22 05:33
LDW22-SC777H	22L0246-33	CubeData_12272022@1526-038	Solid	12/25/22 06:34
Calibration Check	SKL0311-CCV3	CubeData_12272022@1526-039	NA	12/25/22 07:05
Calibration Blank	SKL0311-CCB3	CubeData_12272022@1526-040	NA	12/25/22 07:35
LDW22-SC777I	22L0246-34	CubeData_12272022@1526-041	Solid	12/25/22 08:06
LDW22-SC759C	22L0246-35	CubeData_12272022@1526-042	Solid	12/25/22 08:37
LDW22-SC759D	22L0246-36	CubeData_12272022@1526-043	Solid	12/25/22 09:07
LDW22-SC759E	22L0246-37	CubeData_12272022@1526-044	Solid	12/25/22 09:38
LDW22-SC759F	22L0246-38	CubeData_12272022@1526-045	Solid	12/25/22 10:08
LDW22-SC759G	22L0246-39	CubeData_12272022@1526-046	Solid	12/25/22 10:39
LDW22-SC759H	22L0246-40	CubeData_12272022@1526-047	Solid	12/25/22 11:09
Calibration Check	SKL0311-CCV4	CubeData_12272022@1526-050	NA	12/25/22 13:11
Calibration Blank	SKL0311-CCB4	CubeData_12272022@1526-051	NA	12/25/22 13:42
LDW22-SC759B	22L0246-41	CubeData_12272022@1526-052	Solid	12/25/22 14:12
LDW22-IT809A	22L0246-42	CubeData_12272022@1526-053	Solid	12/25/22 14:43
LDW22-IT809B	22L0246-43	CubeData_12272022@1526-054	Solid	12/25/22 15:13
LDW22-IT809C	22L0246-44	CubeData_12272022@1526-055	Solid	12/25/22 15:44
MRL Check	BKL0504-MRL1	CubeData_12272022@1526-056	Solid	12/25/22 16:14
Blank	BKL0504-BLK1	CubeData_12272022@1526-057	Solid	12/25/22 16:45
LCS	BKL0504-BS1	CubeData_12272022@1526-058	Solid	12/25/22 17:15
Reference	BKL0504-SRM1	CubeData_12272022@1526-059	Solid	12/25/22 17:45
LDW22-IT809D	22L0246-45	CubeData_12272022@1526-060	Solid	12/25/22 18:16
LDW22-IT809D	BKL0504-DUP1	CubeData_12272022@1526-061	Solid	12/25/22 18:46
Calibration Check	SKL0311-CCV5	CubeData_12272022@1526-062	NA	12/25/22 19:16
Calibration Blank	SKL0311-CCB5	CubeData_12272022@1526-063	NA	12/25/22 19:47
LDW22-IT809D	BKL0504-MS1	CubeData_12272022@1526-064	Solid	12/25/22 20:17
LDW22-IT809E	22L0246-46	CubeData_12272022@1526-065	Solid	12/25/22 20:47

ANALYSIS BATCH (SEQUENCE) SUMMARY

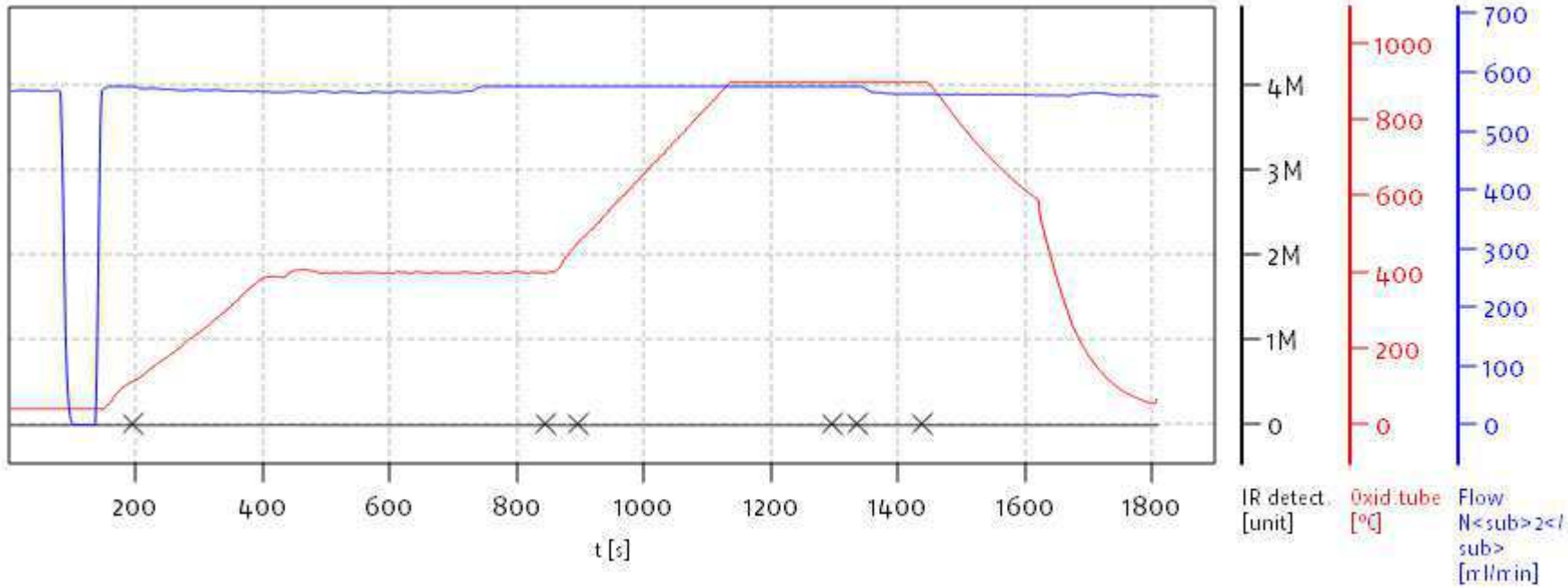
EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Sequence:	SKL0311	Instrument:	TOC Cube
		Calibration:	FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
LDW22-IT809F	22L0246-47	CubeData_12272022@1526-066	Solid	12/25/22 21:18
LDW22-IT809G	22L0246-48	CubeData_12272022@1526-067	Solid	12/25/22 21:48
Calibration Check	SKL0311-CCV6	CubeData_12272022@1526-074	NA	12/26/22 01:22
Calibration Blank	SKL0311-CCB6	CubeData_12272022@1526-075	NA	12/26/22 01:53
Calibration Check	SKL0311-CCV7	CubeData_12272022@1526-086	NA	12/26/22 07:29
Calibration Blank	SKL0311-CCB7	CubeData_12272022@1526-087	NA	12/26/22 08:00

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/24/2022 11:19 AM	bl	0.000	10 471	0.000	0.000	1 452	4 672	0.000	0.000	1.0000	1.0000



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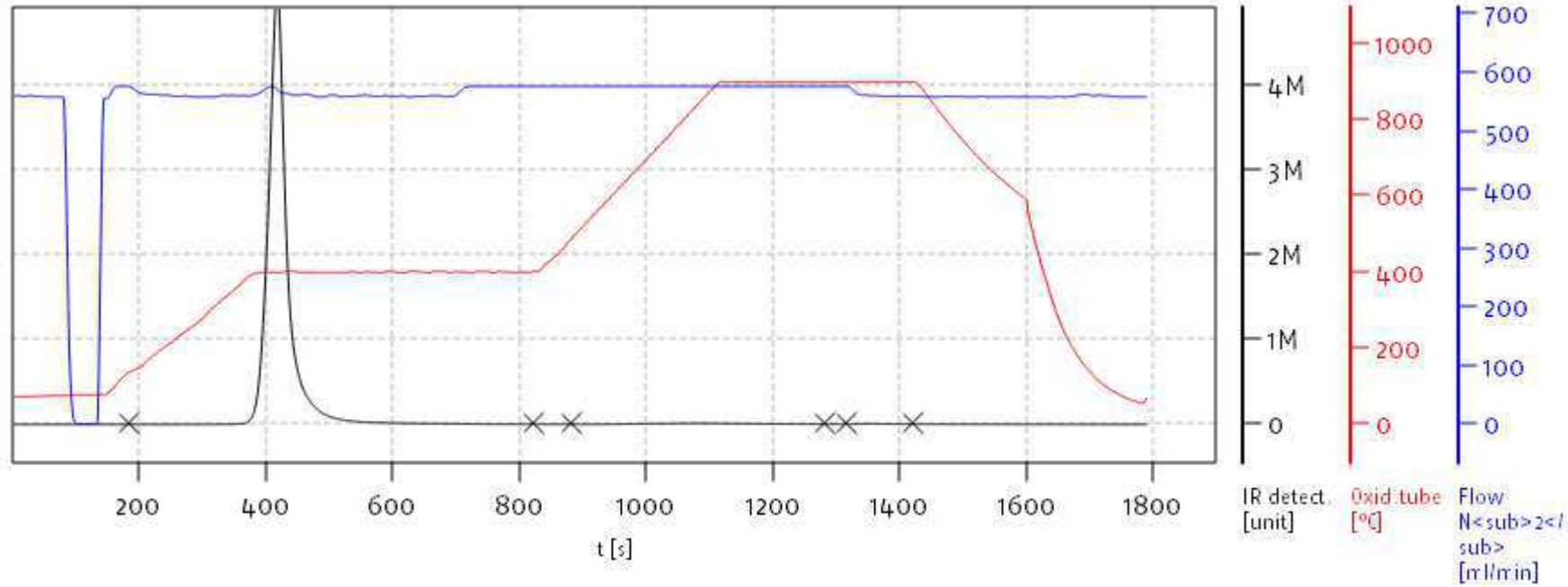
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	22.30		CARBON	12/24/2022 11:49 AM	bl	44.446	6 626 733	45.006	0.000	21 653	107 298	44.446	0.561	0.9701	1.0000



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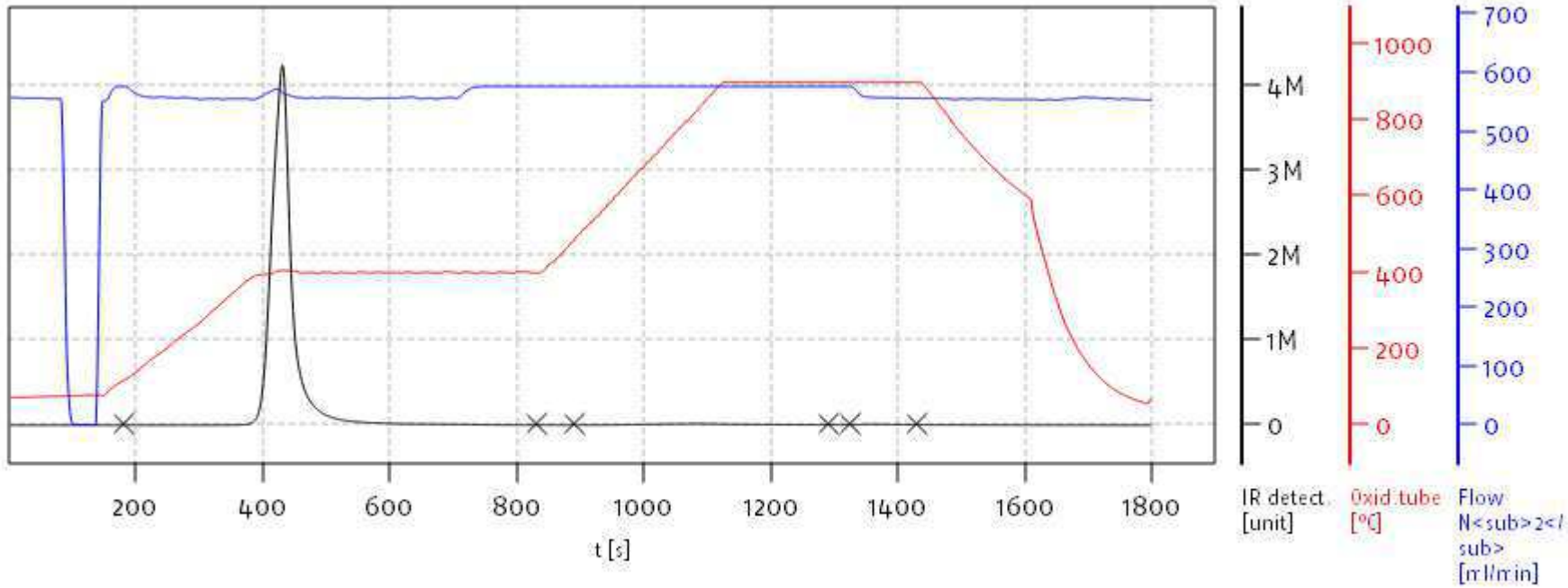
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	19.80		CARBON	12/24/2022 12:20 PM	bl	44.467	5 830 758	45.176	0.021	29 250	117 190	44.446	0.709	0.9794	1.0000



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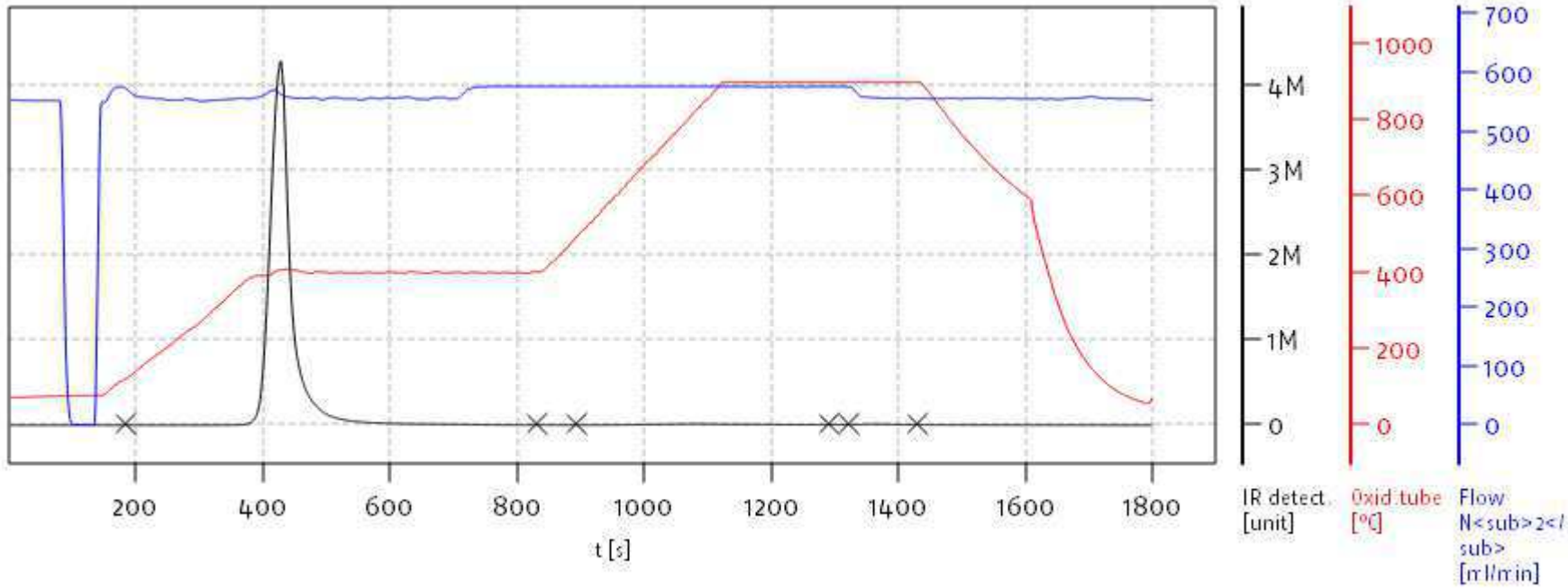
Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0311-ICV1	21.10		CARBON	12/24/2022 12:50 PM	bl	43.551	6 110 040	44.187	0.046	32 739	113 320	43.505	0.637	0.9747	1.0000



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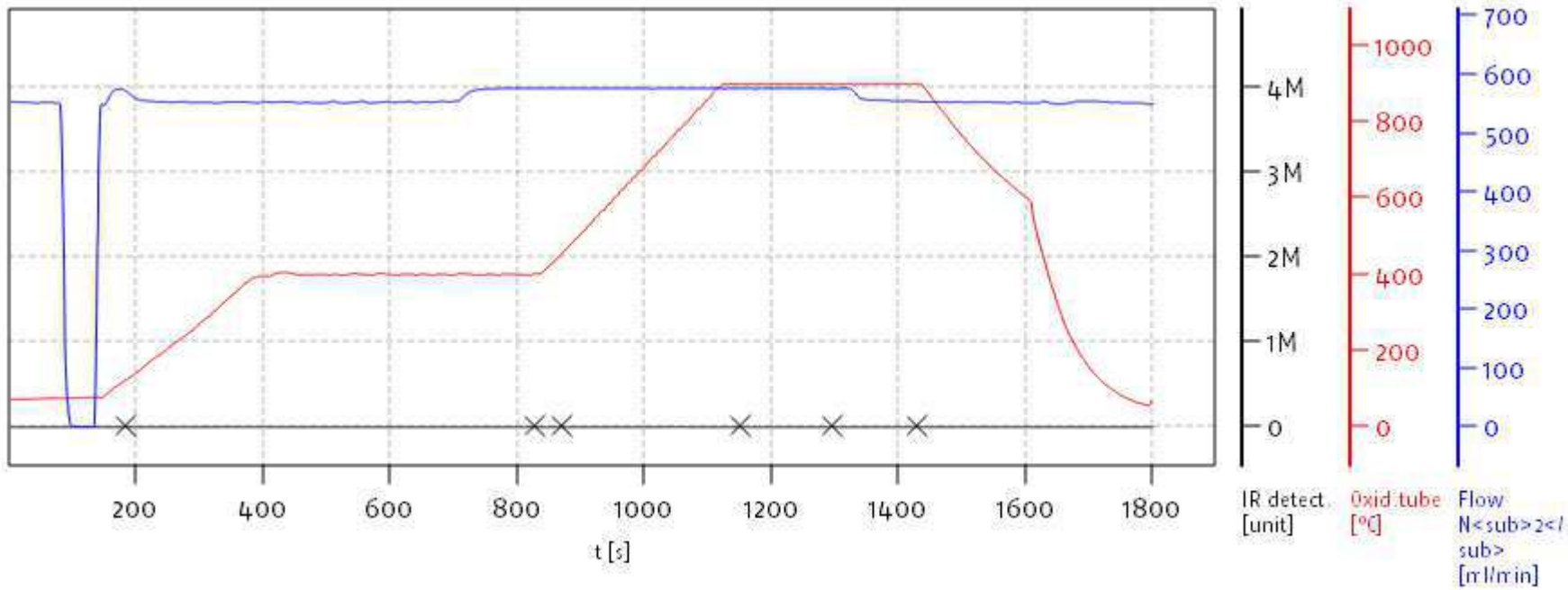
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0311-ICB1	516.00		CARBON	12/24/2022 1:21 PM	bl,C3u,C2u	0.000	5 460	0.000	0.000	1 161	2 287	0.000	0.000	0.9747	1.0000



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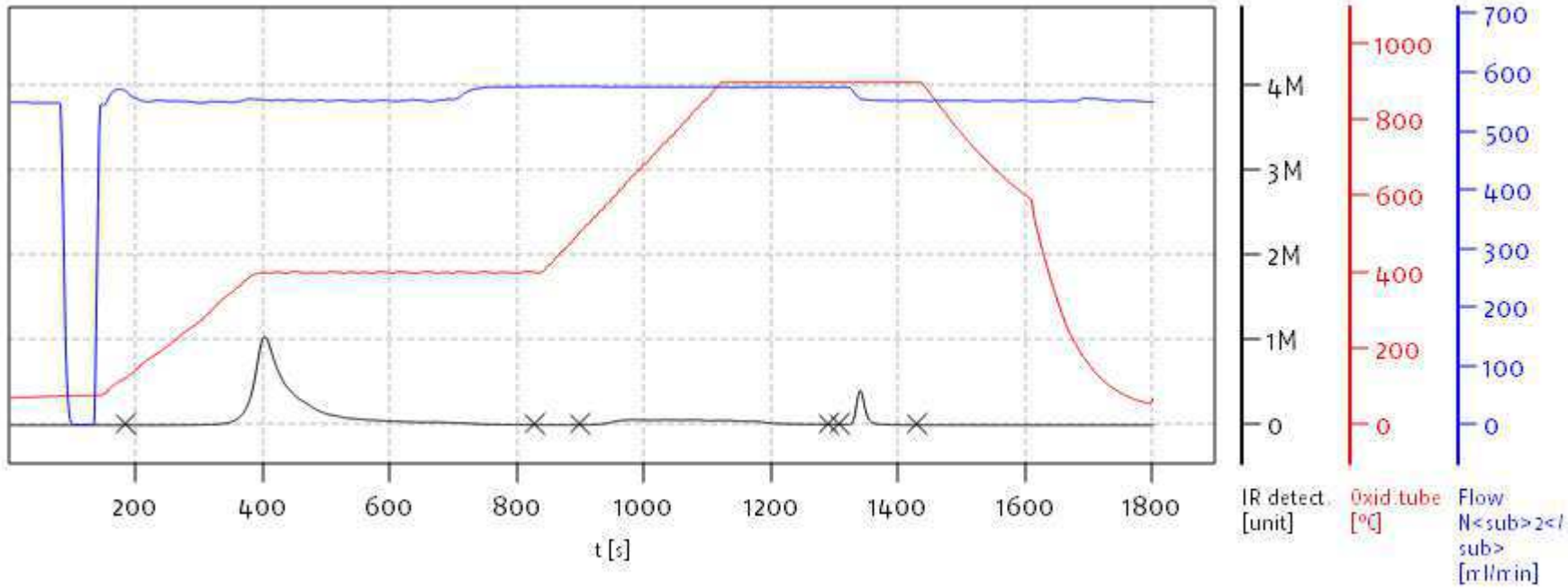
elementar
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	22L0246-10	525.90		CARBON	12/24/2022 1:51 PM	bl	0.875	2 840 035	1.036	0.068	256 201	572 530	0.807	0.161	0.9747	1.0000



Name:

Access: soliTOC superuser

Date: Mon Dec 26 13:49:33 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

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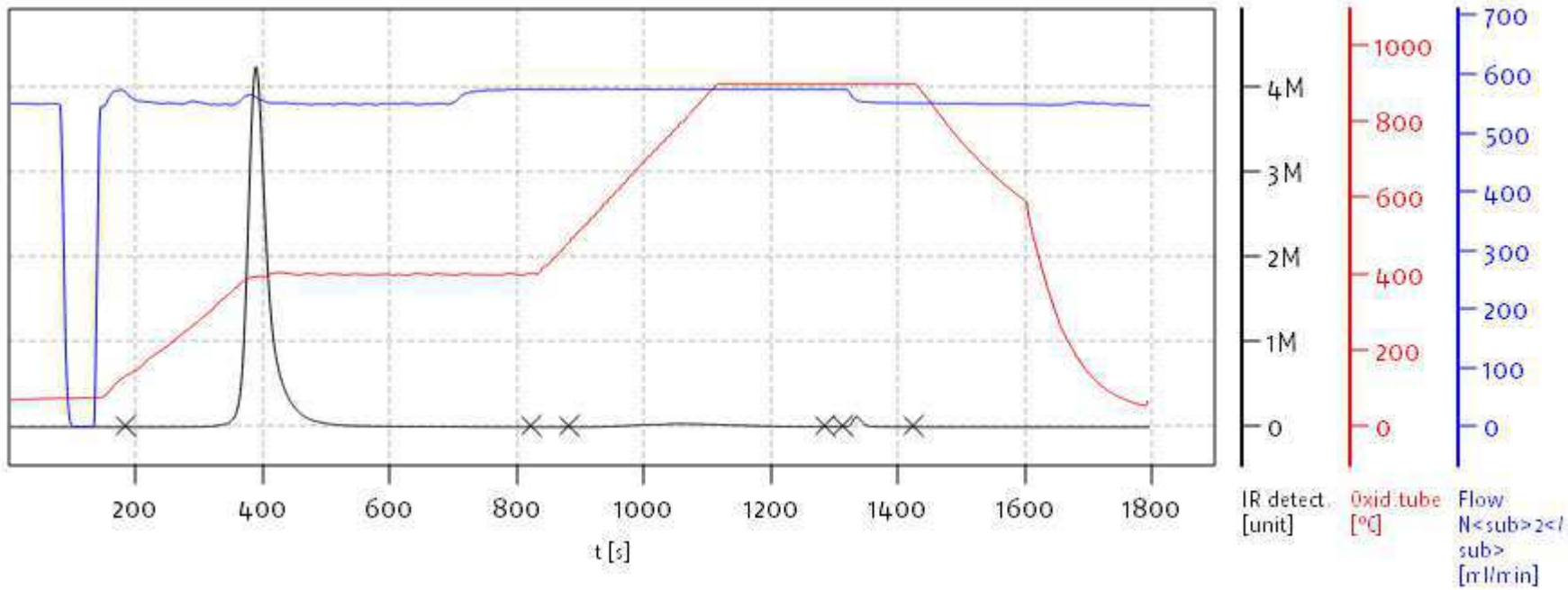
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	22L0246-11	528.60		CARBON	12/24/2022 2:21 PM	bl	1.716	5 979 485	1.783	0.017	84 132	254 353	1.699	0.067	0.9747	1.0000



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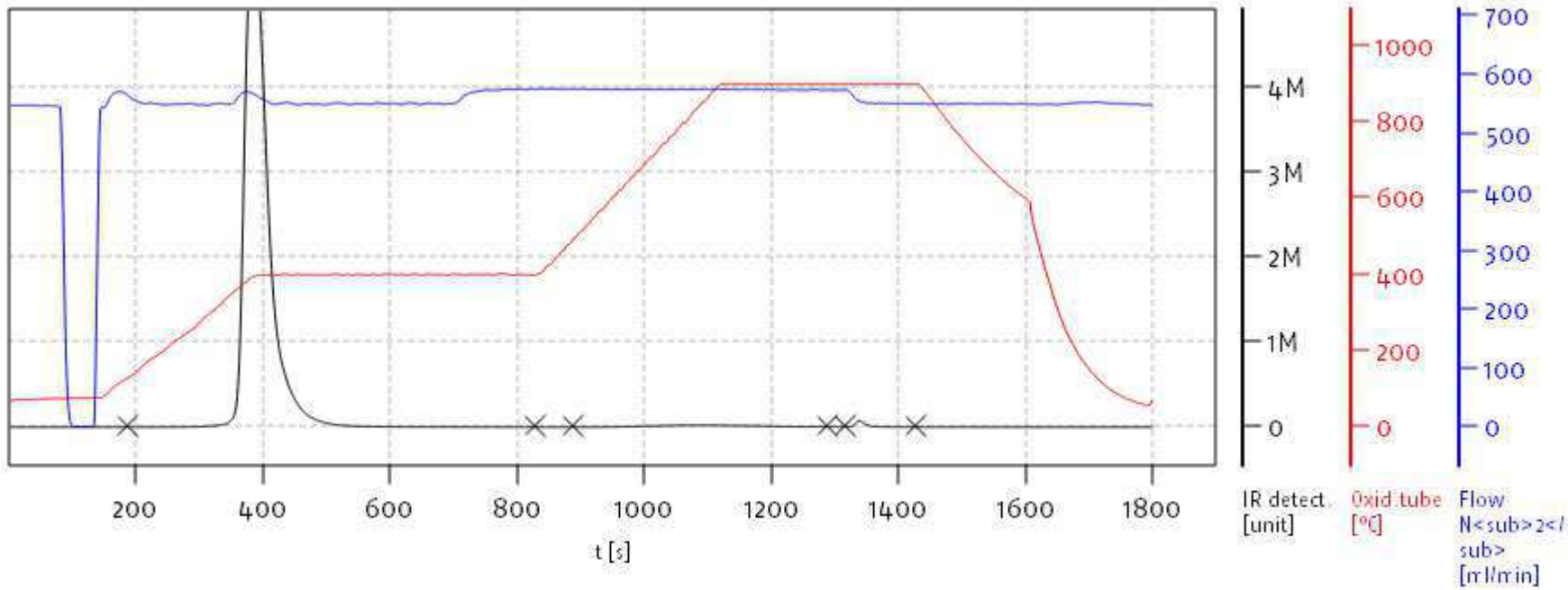
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	22L0246-12	534.60		CARBON	12/24/2022 2:52 PM	bl	2.630	9 313 136	2.668	0.008	55 641	159 598	2.621	0.039	0.9747	1.0000



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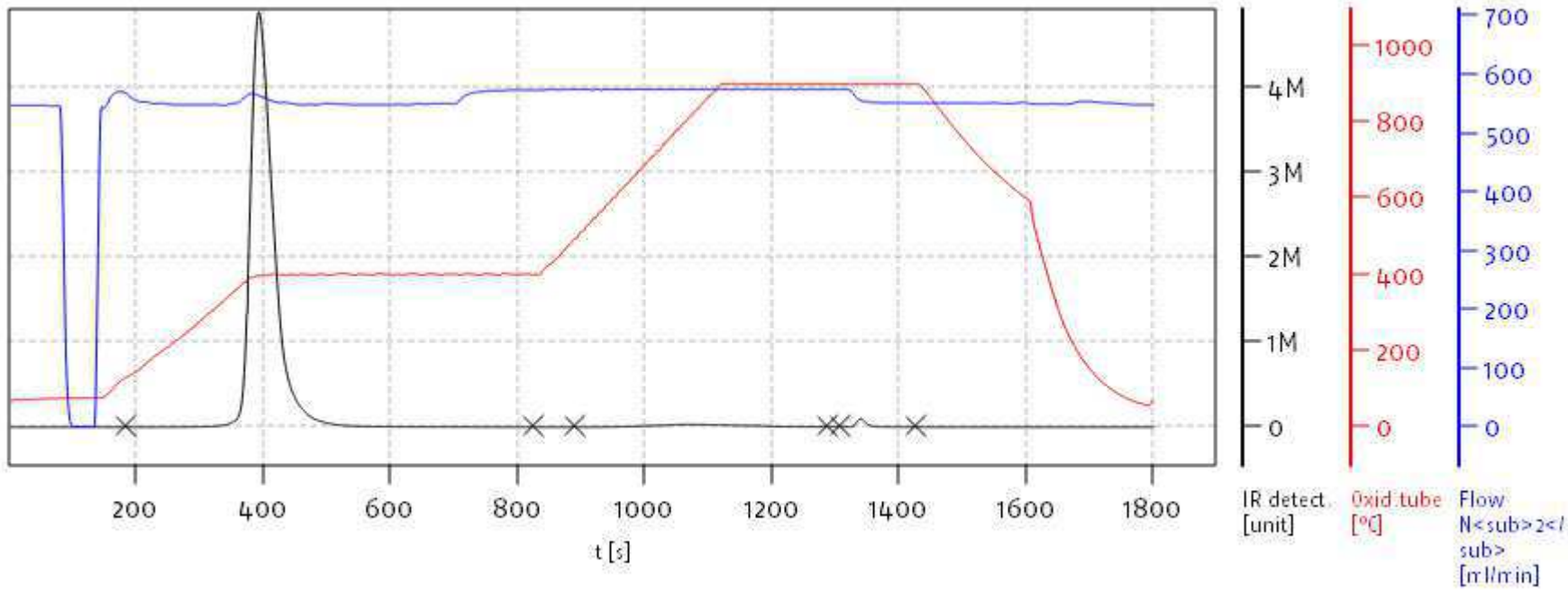
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	22L0246-13	559.40		CARBON	12/24/2022 3:22 PM	bl	2.094	7 747 378	2.142	0.012	68 145	199 655	2.083	0.048	0.9747	1.0000



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Balance: BAL3
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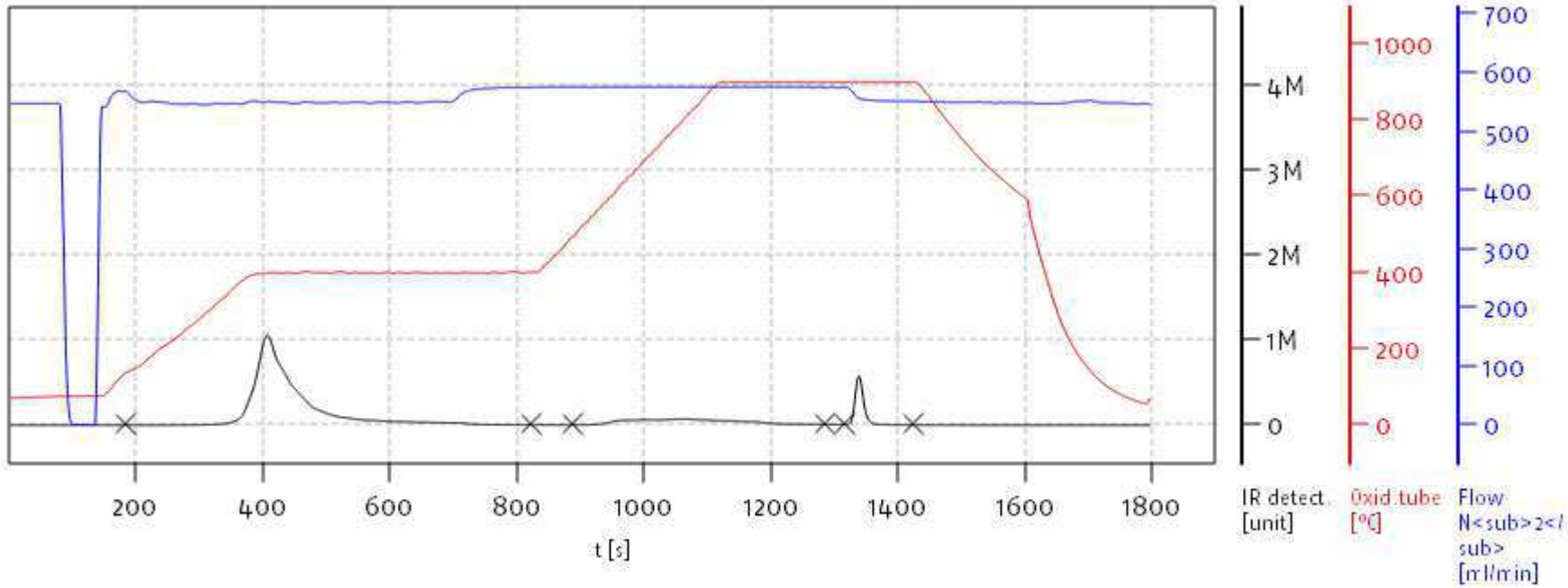
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0246-14	522.40		CARBON	12/24/2022 3:52 PM	bl	0.942	2 962 771	1.107	0.094	344 742	581 166	0.848	0.164	0.9747	1.0000



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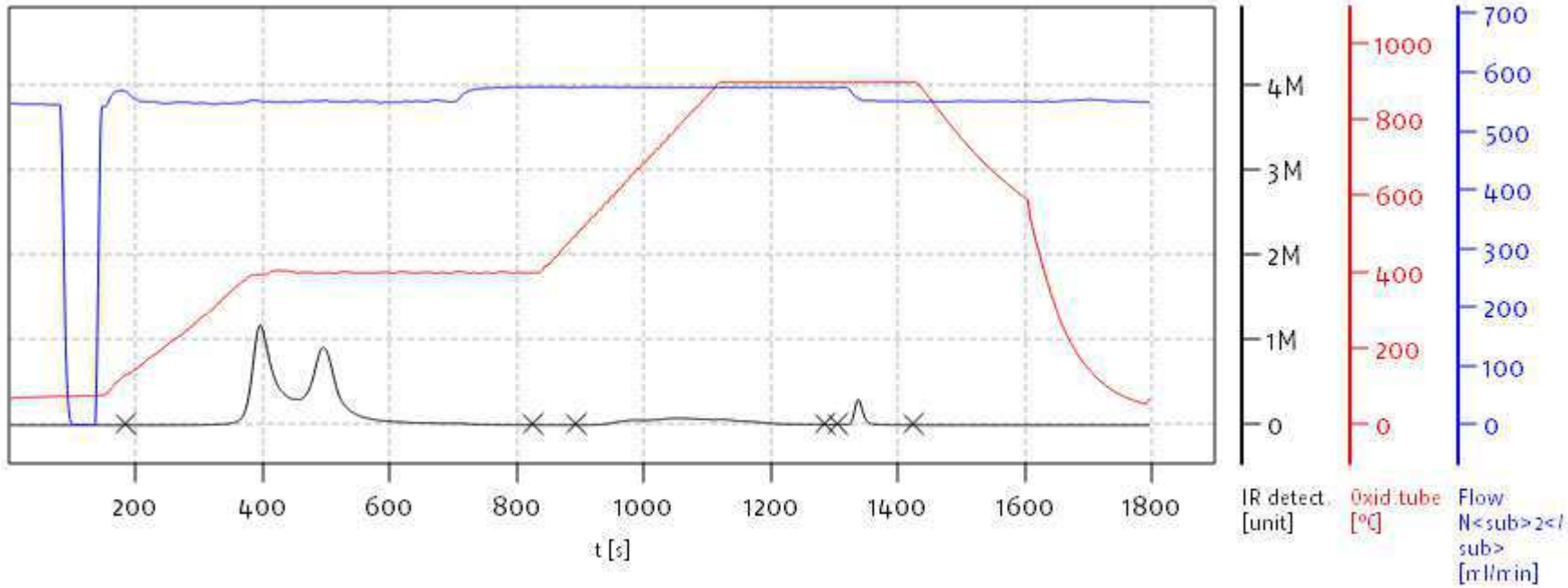
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	22L0246-15	521.50		CARBON	12/24/2022 4:23 PM	bl	1.159	3 869 718	1.329	0.047	185 573	597 043	1.112	0.169	0.9747	1.0000



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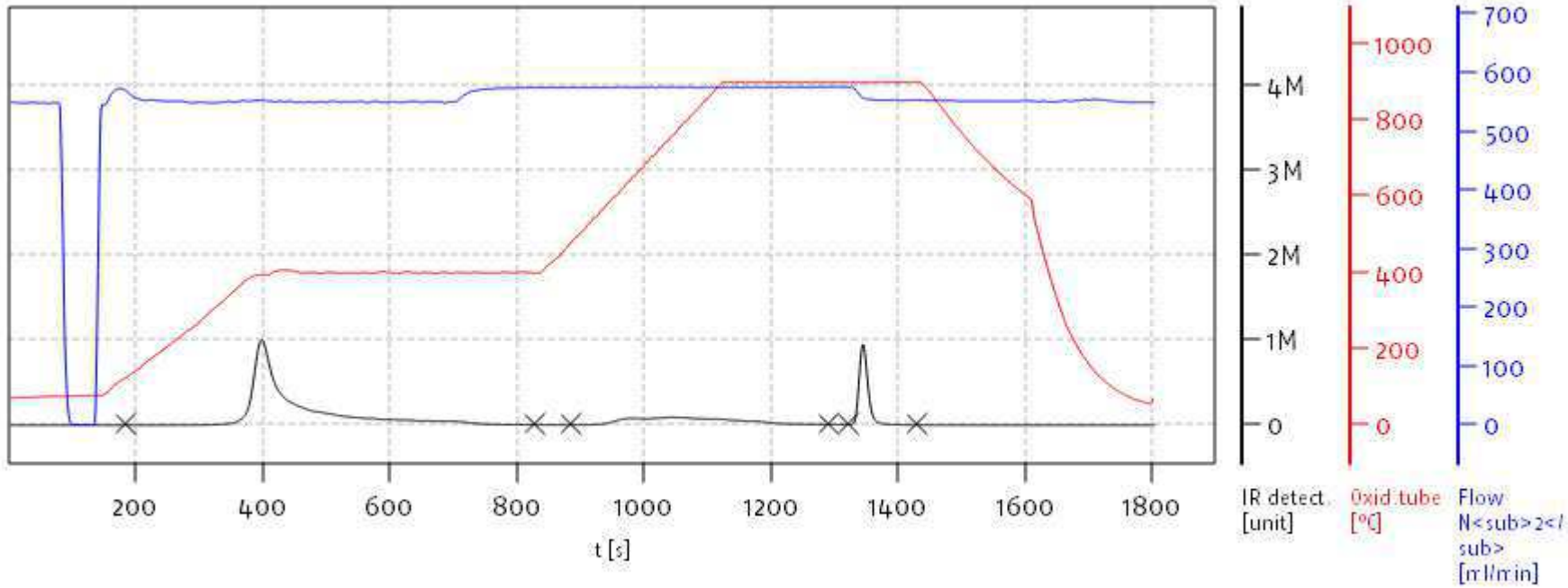
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	22L0246-16	519.40		CARBON	12/24/2022 4:53 PM	bl	0.898	2 543 498	1.105	0.167	586 311	719 945	0.731	0.207	0.9747	1.0000



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Balance: BAL3
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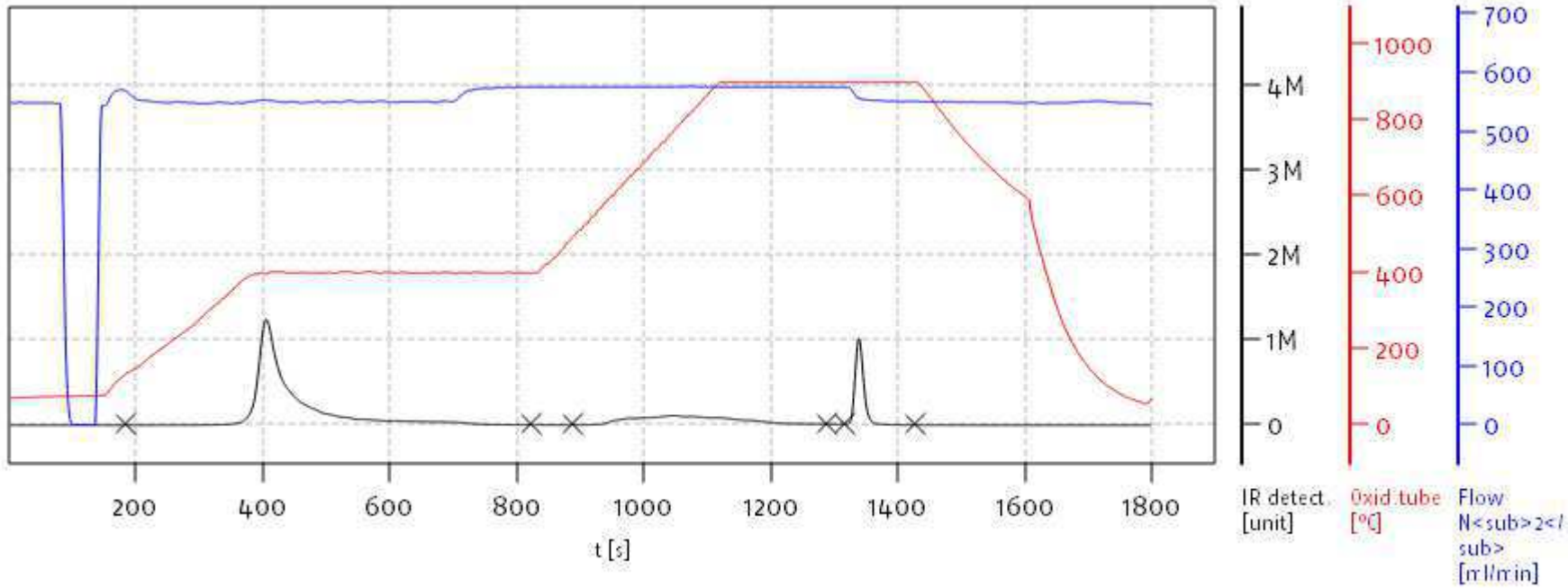
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0246-17	542.00		CARBON	12/24/2022 5:24 PM	bl	0.923	2 749 530	1.155	0.165	605 385	837 714	0.758	0.232	0.9747	1.0000



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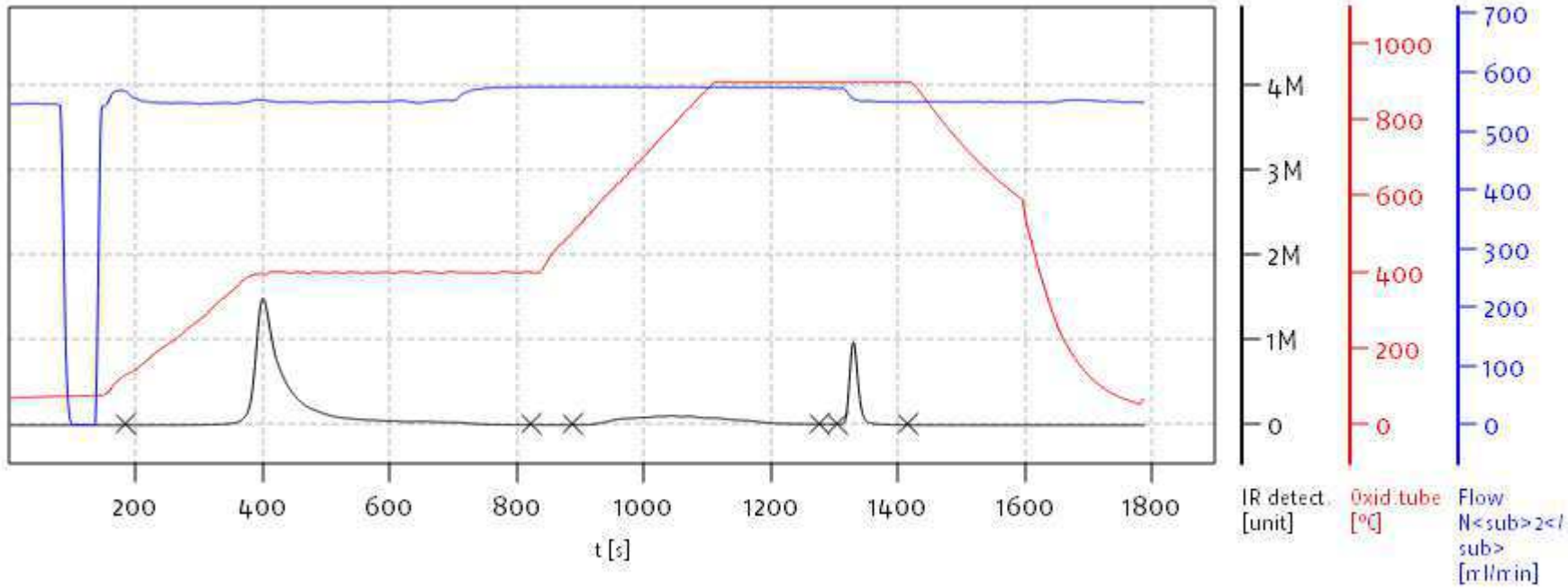
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0246-18	501.60		CARBON	12/24/2022 5:54 PM	bl	1.119	3 161 990	1.366	0.176	597 680	825 417	0.943	0.247	0.9747	1.0000



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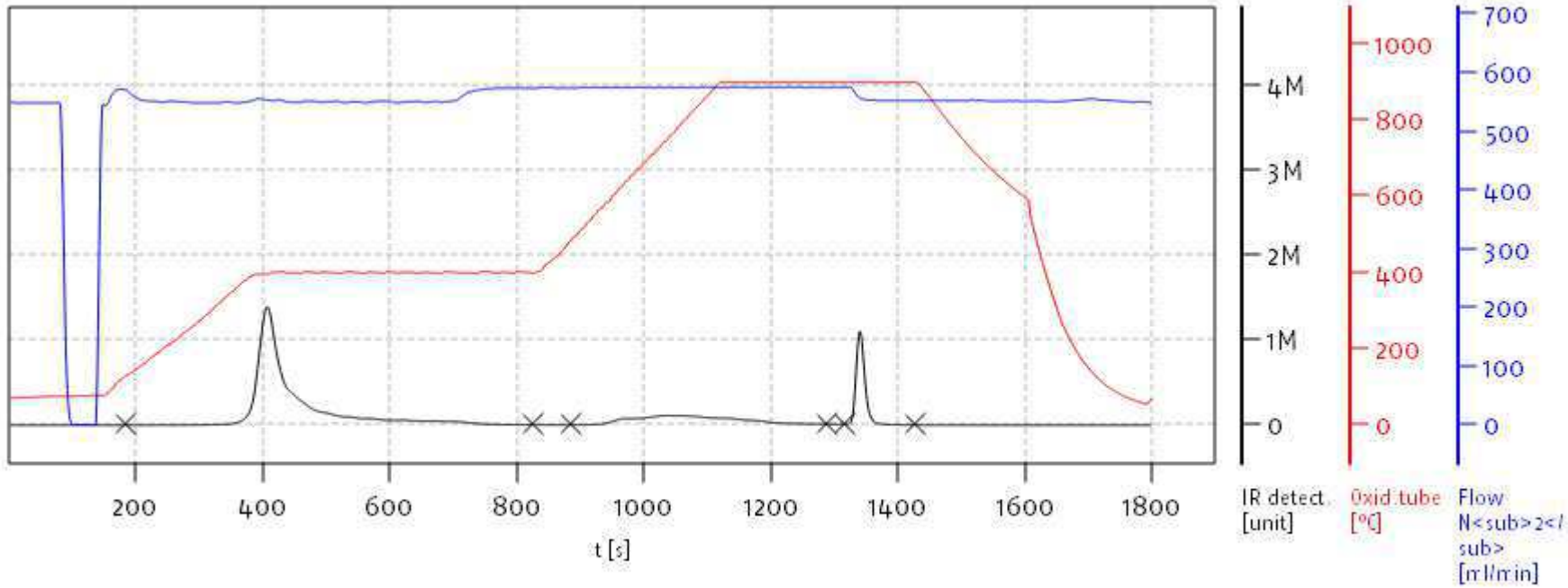
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0246-19	541.50		CARBON	12/24/2022 6:24 PM	bl	1.037	3 084 659	1.275	0.185	673 493	860 179	0.852	0.238	0.9747	1.0000



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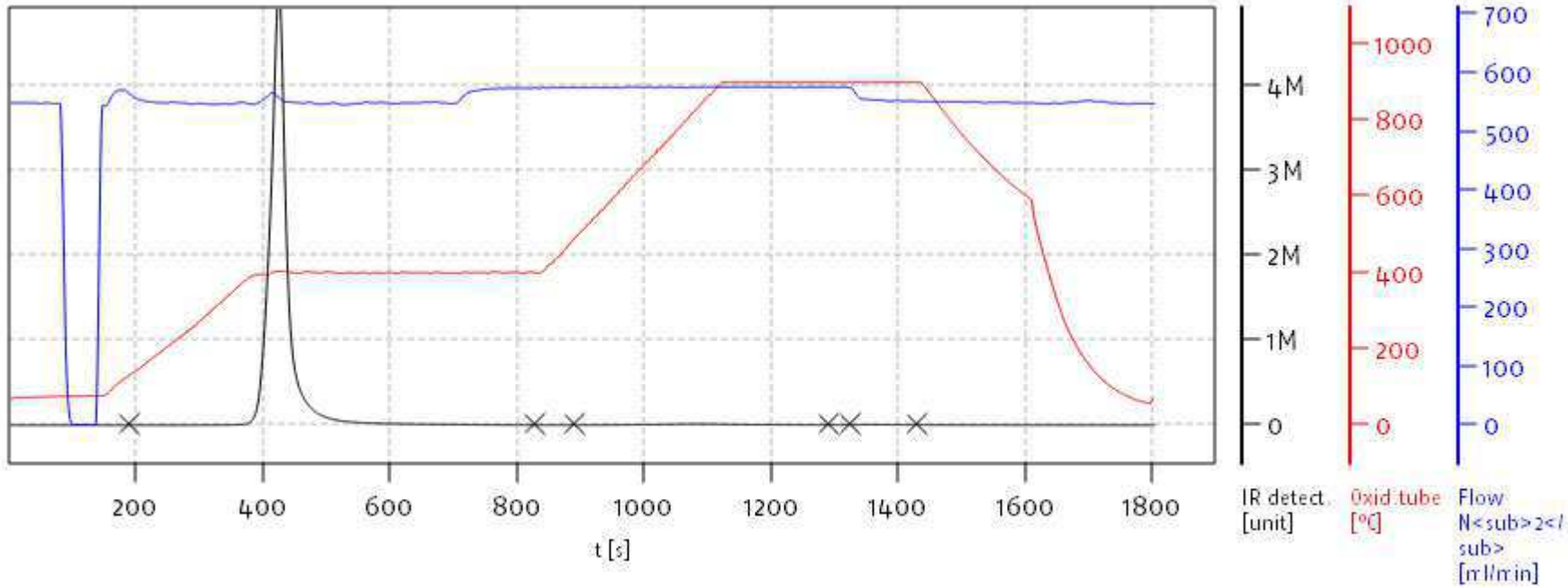
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0311-CCV1	20.20		CARBON	12/24/2022 6:55 PM	bl	44.365	5 965 689	44.904	0.000	20 657	96 914	44.365	0.539	0.9747	1.0000



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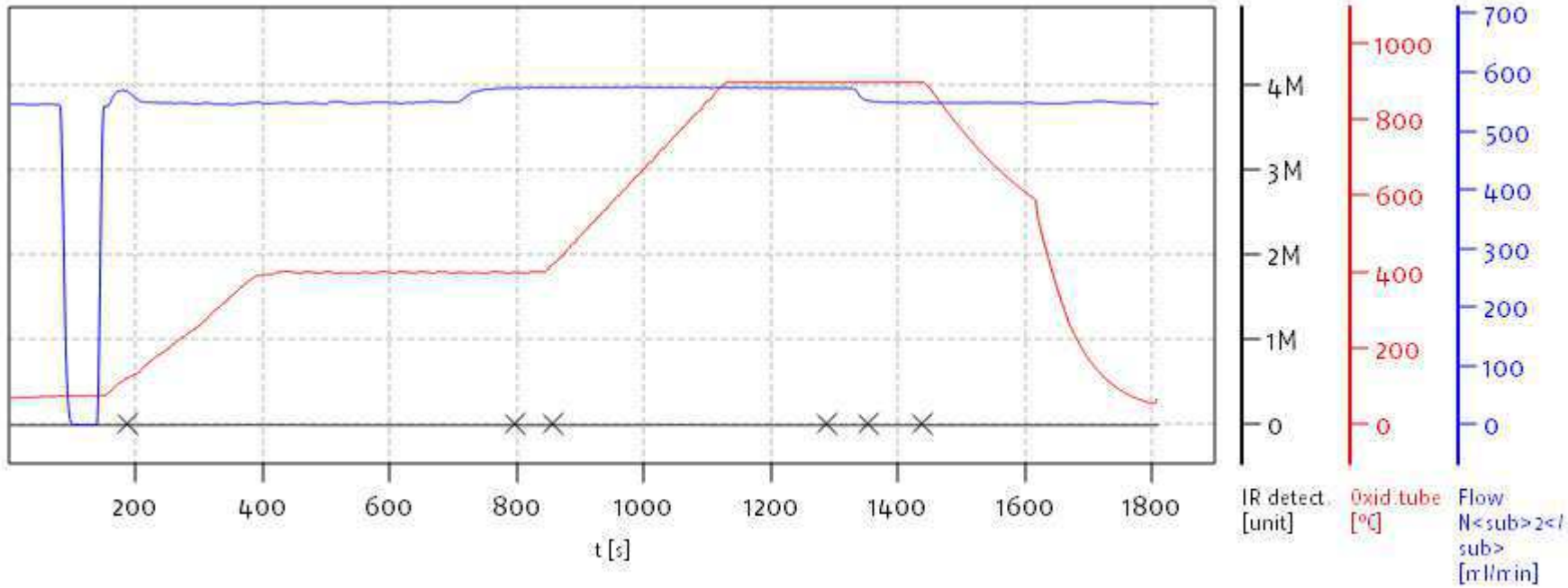
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0311-CCB1	539.00		CARBON	12/24/2022 7:25 PM	bl,C2u	0.000	13 755	0.000	0.000	453	10 875	0.000	0.000	0.9747	1.0000



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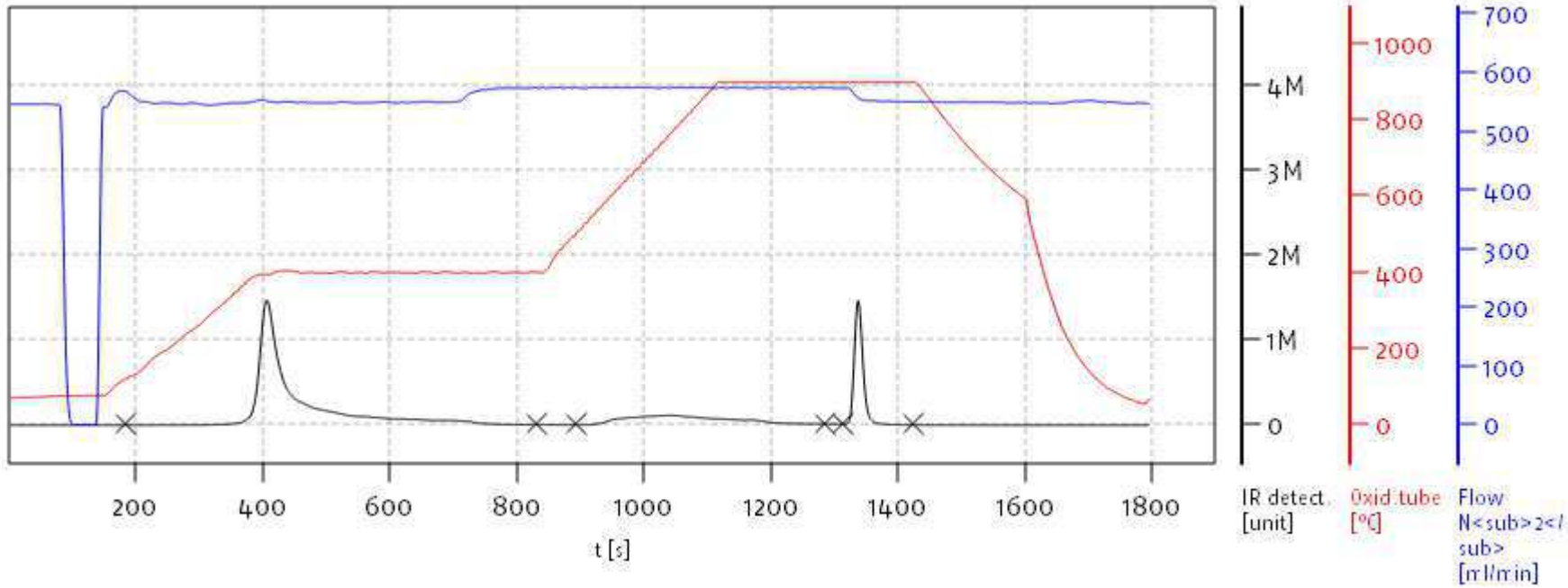
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0246-20	505.90		CARBON	12/24/2022 7:55 PM	bl	1.199	3 172 682	1.460	0.261	879 564	879 015	0.938	0.261	0.9747	1.0000



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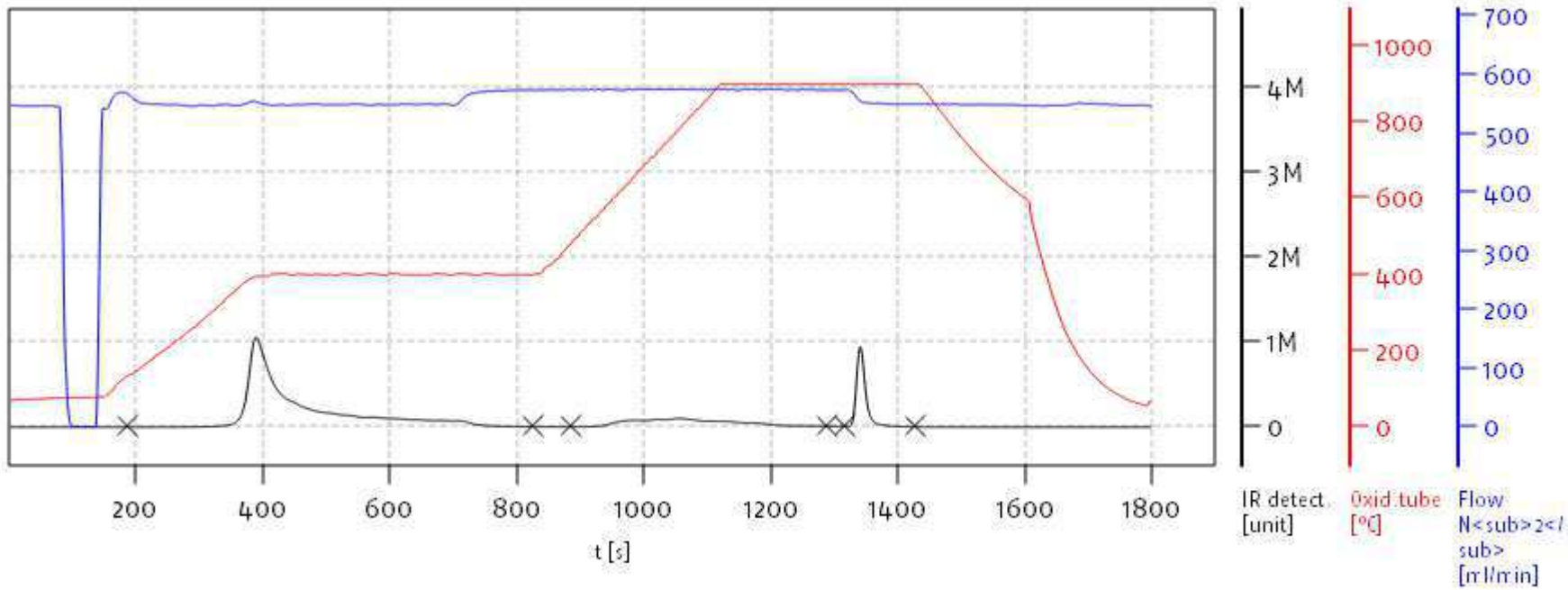
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	22L0246-21	501.10		CARBON	12/24/2022 8:26 PM	bl	1.127	3 178 966	1.352	0.178	602 564	752 785	0.949	0.224	0.9747	1.0000



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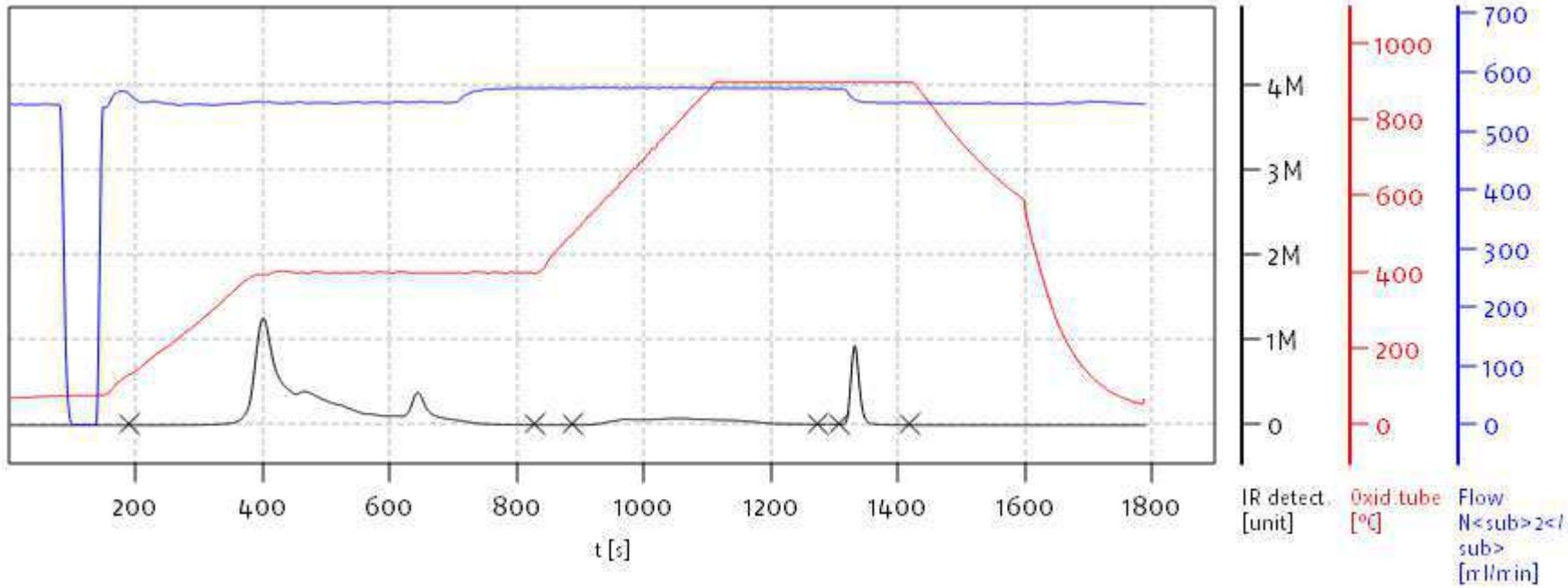
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	22L0246-22	526.20		CARBON	12/24/2022 8:56 PM	bl	1.305	4 031 981	1.485	0.156	557 884	637 254	1.149	0.180	0.9747	1.0000



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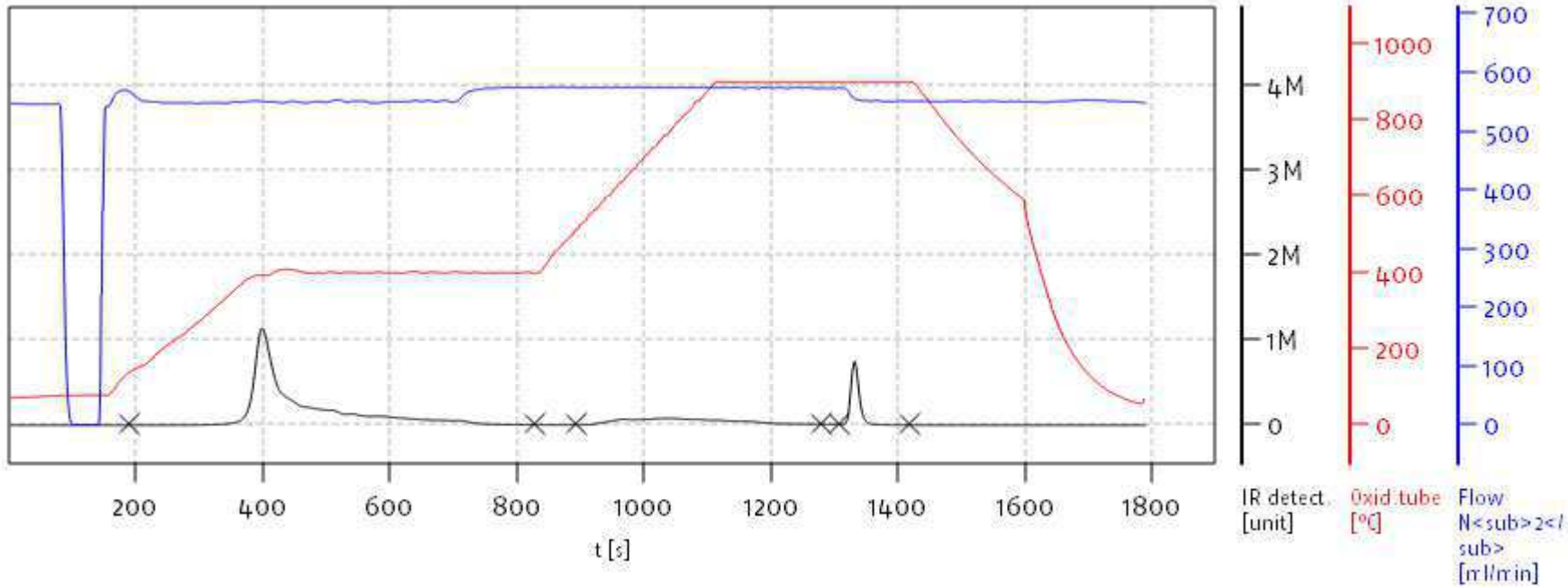
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	22L0246-23	514.10		CARBON	12/24/2022 9:26 PM	bl	0.977	2 933 275	1.163	0.124	437 019	644 611	0.853	0.186	0.9747	1.0000



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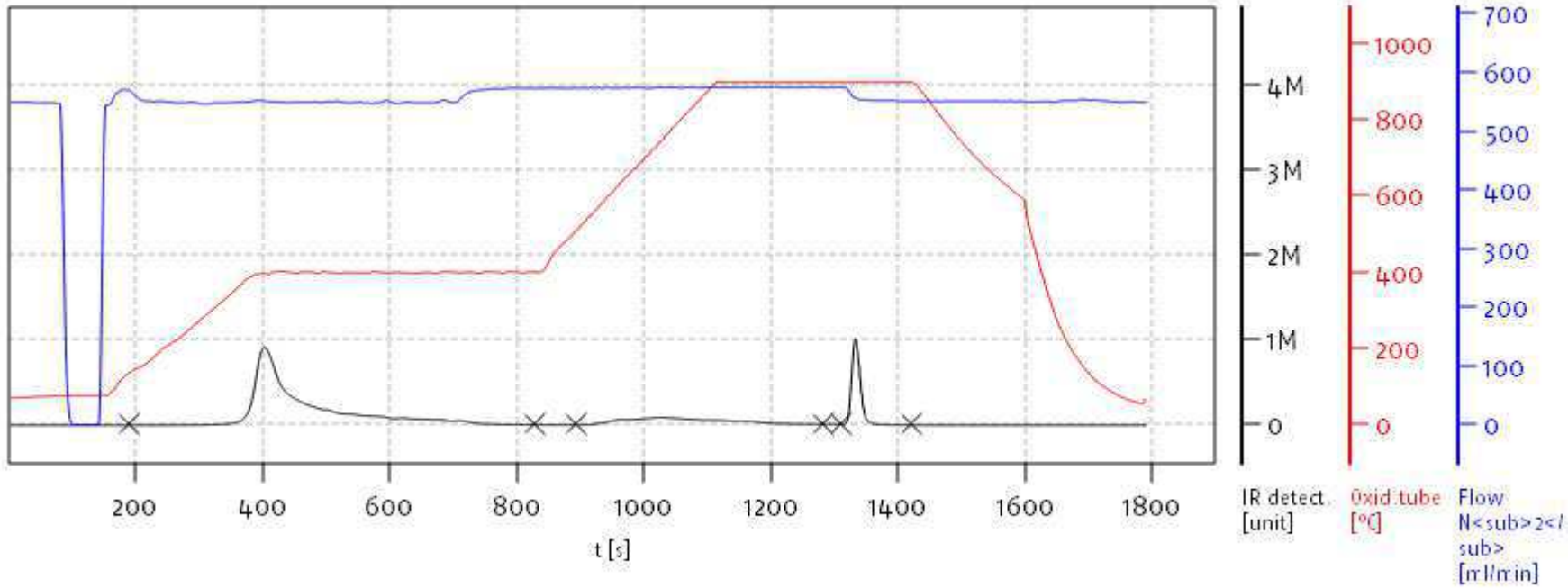
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	22L0246-24	524.40		CARBON	12/24/2022 9:56 PM	bl	0.990	2 873 002	1.179	0.171	606 798	666 636	0.819	0.189	0.9747	1.0000



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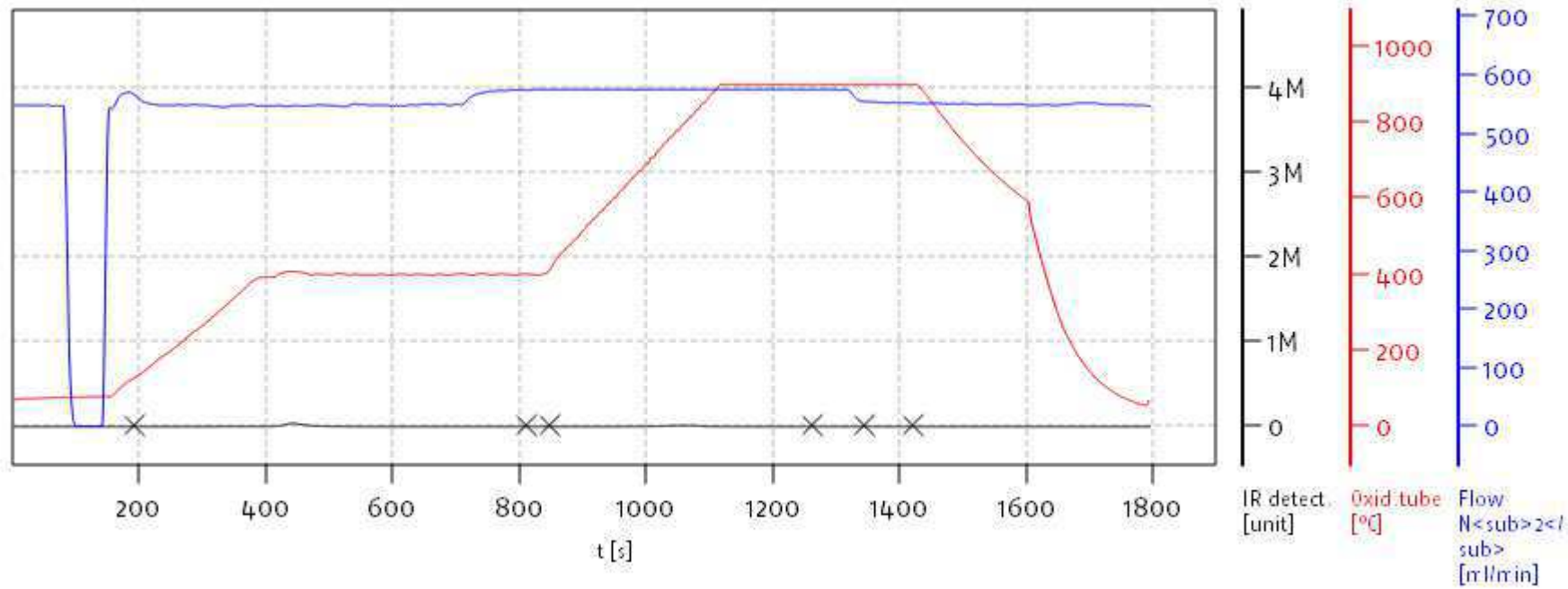
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	BKL0503-MRL1	519.00		CARBON	12/24/2022 10:27 PM	bl,C2u	0.012	67 142	0.014	0.000	166	34 934	0.012	0.003	0.9747	1.0000



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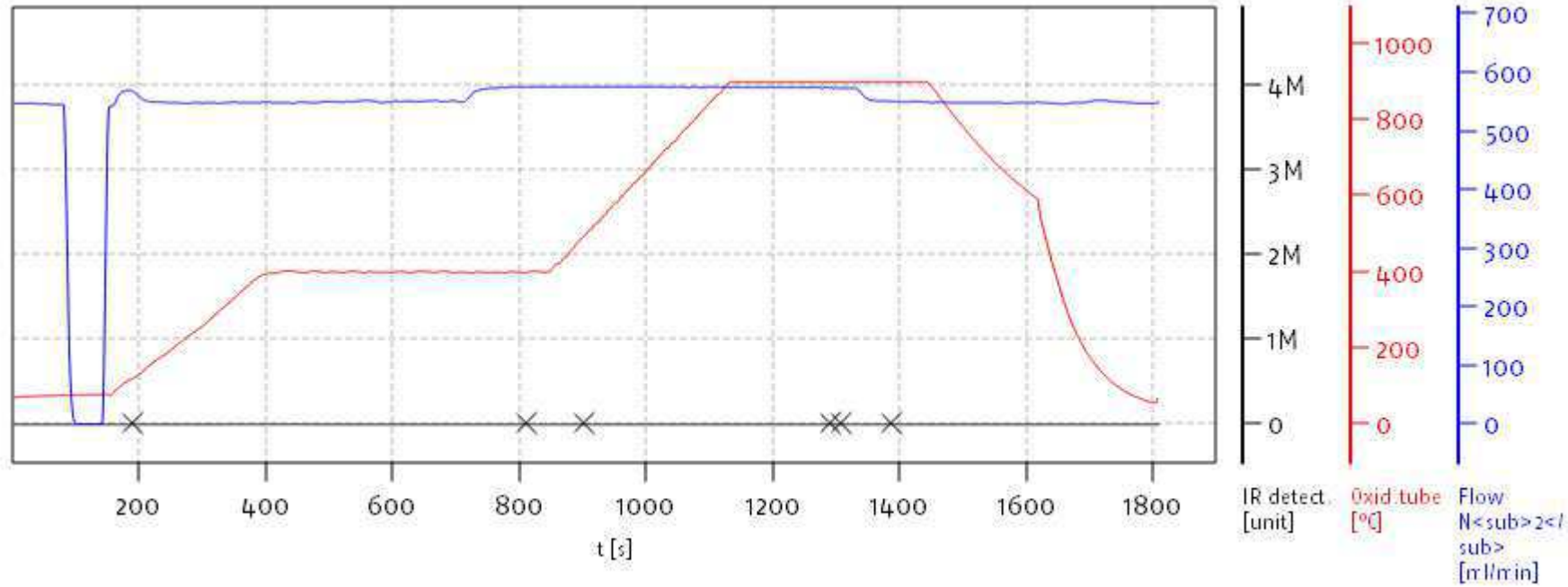
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	BKL0503-BLK1	520.70		CARBON	12/24/2022 10:57 PM	bl,C3u,C2u	0.000	8 157	0.000	0.000	257	1 752	0.000	0.000	0.9747	1.0000



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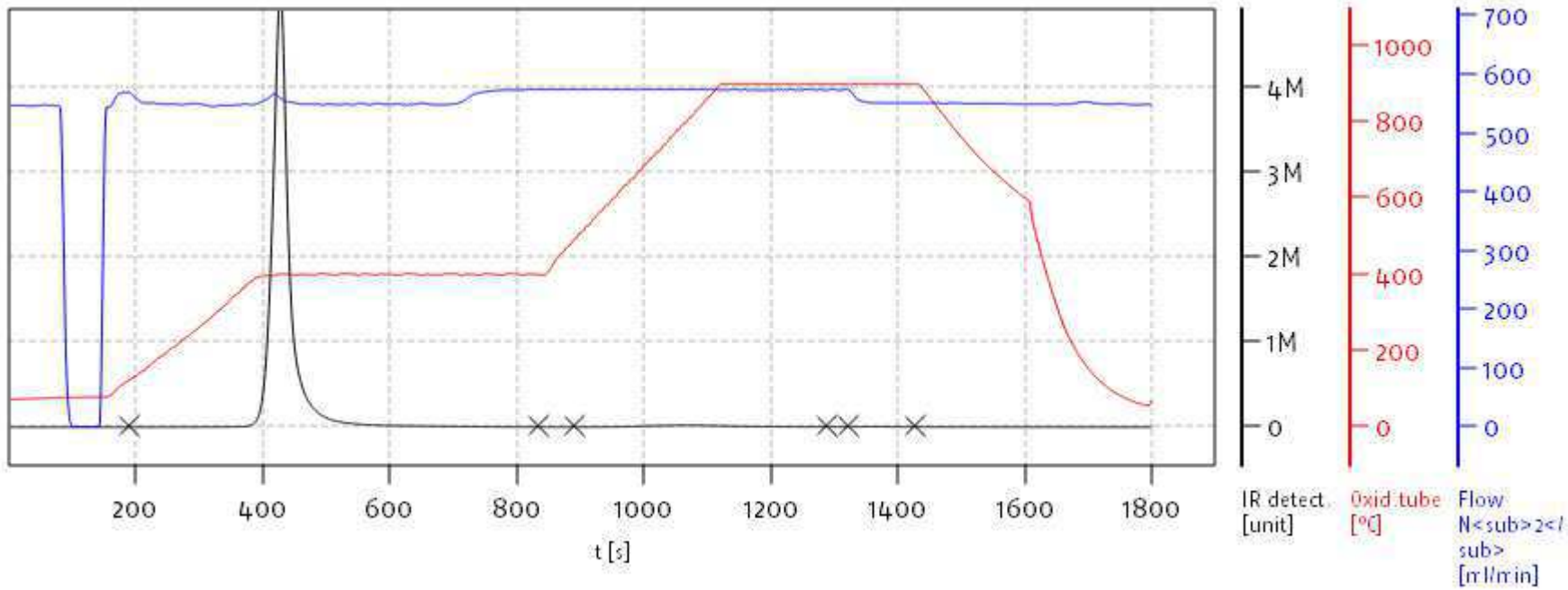
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	BKL0503-BS1	20.10		CARBON	12/24/2022 11:28 PM	bl	44.382	5 938 527	45.221	0.000	17 810	135 540	44.382	0.840	0.9747	1.0000



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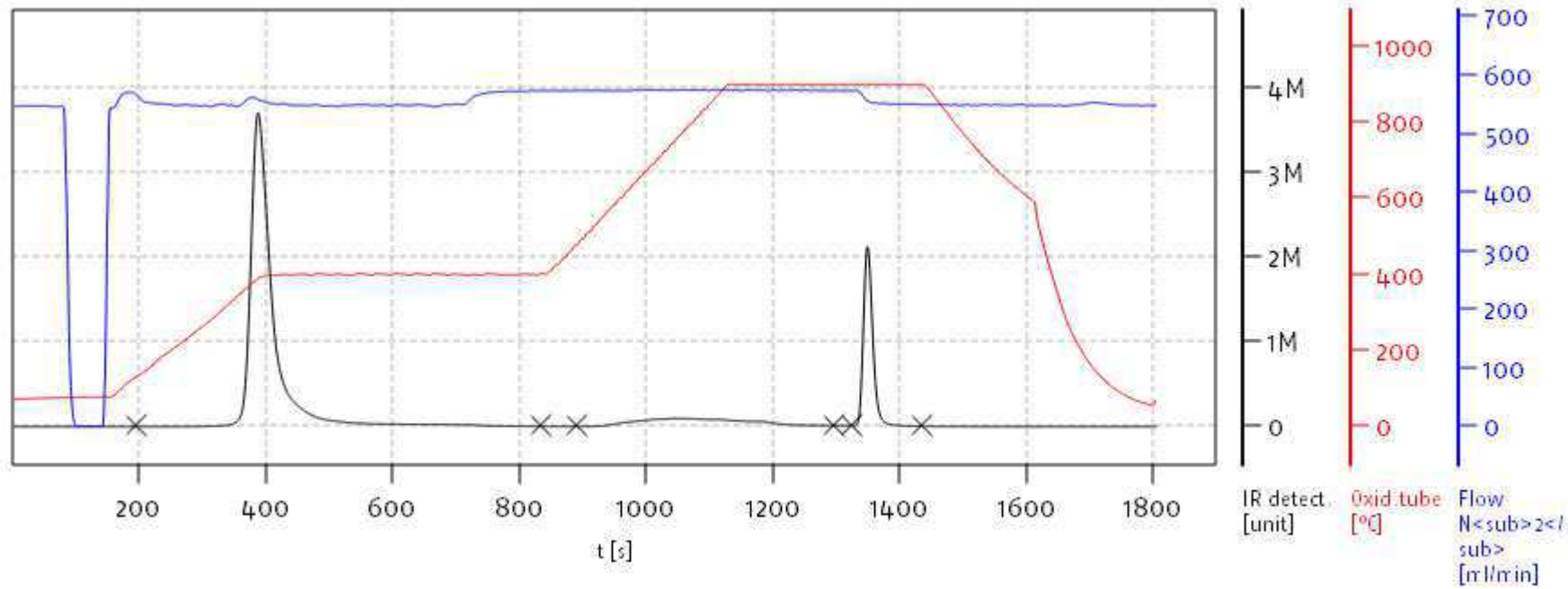
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	BKL0503-SRM1	345.40		CARBON	12/24/2022 11:58 PM	bl	2.999	5 505 433	3.339	0.606	1 377 852	784 626	2.394	0.340	0.9747	1.0000



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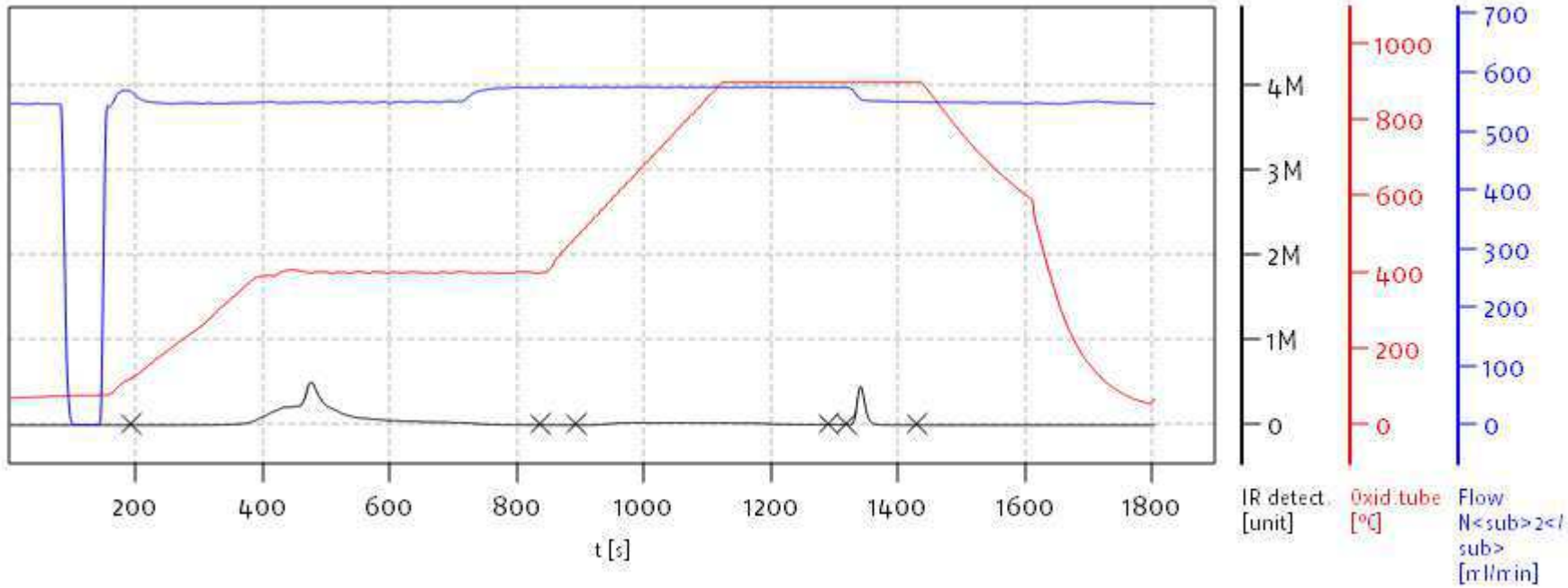
Date: Mon Dec 26 13:49:33 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0246-25	532.90		CARBON	12/25/2022 12:29 AM	bl	0.528	1 652 724	0.599	0.067	258 316	272 629	0.460	0.071	0.9747	1.0000



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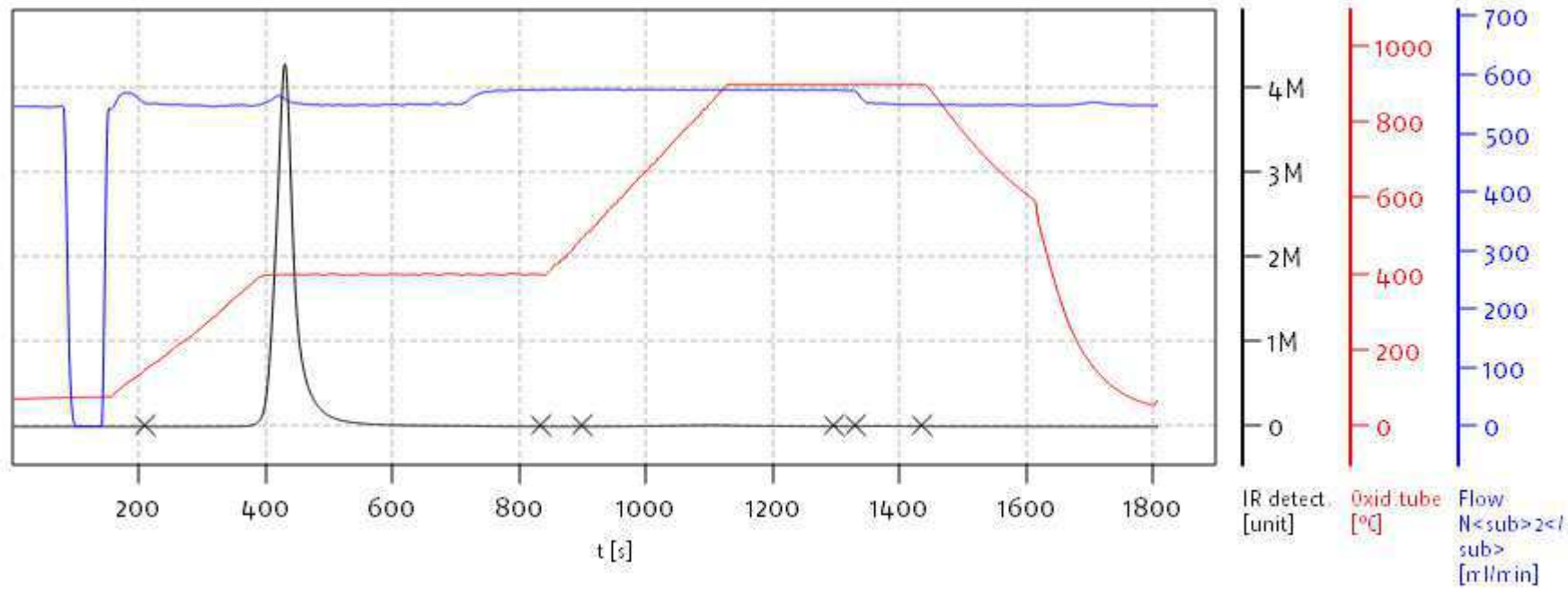
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0311-CCV2	19.30		CARBON	12/25/2022 12:59 AM	bl	44.349	5 698 956	45.021	0.000	19 532	110 328	44.349	0.672	0.9747	1.0000



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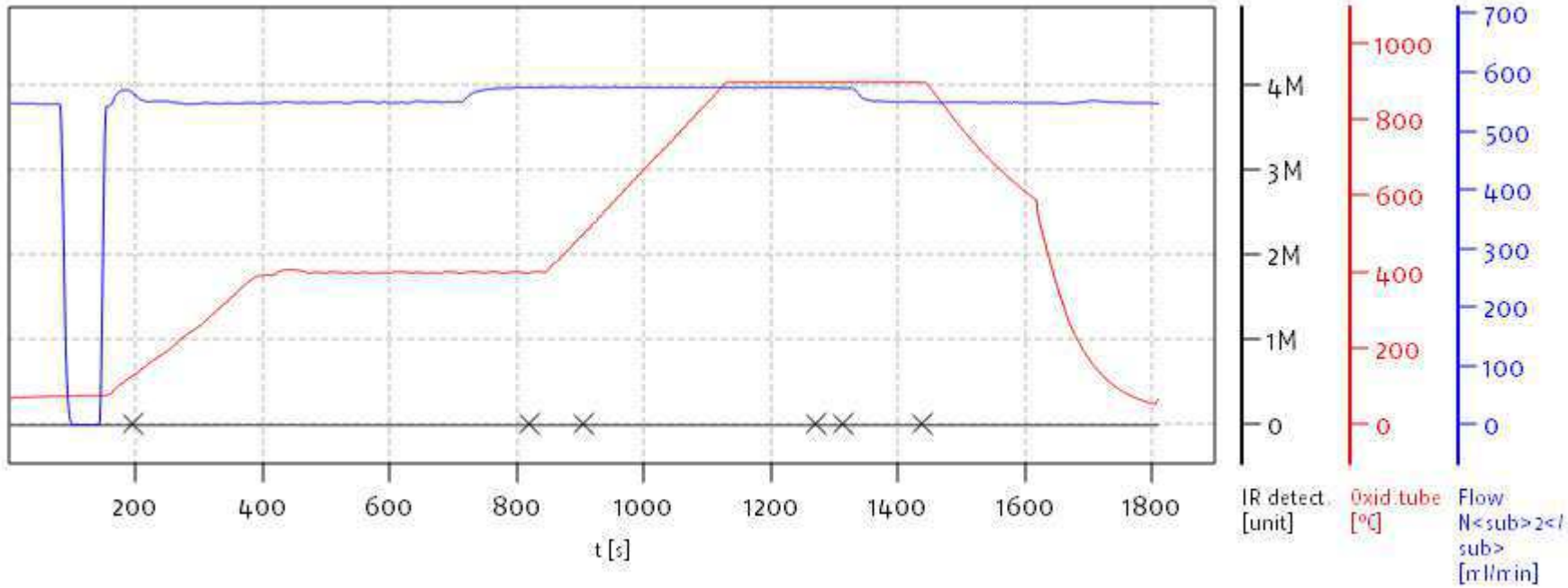
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0311-CCB2	508.50		CARBON	12/25/2022 1:30 AM	bl,C3u,C2u	0.000	8 137	0.000	0.000	538	1 386	0.000	0.000	0.9747	1.0000



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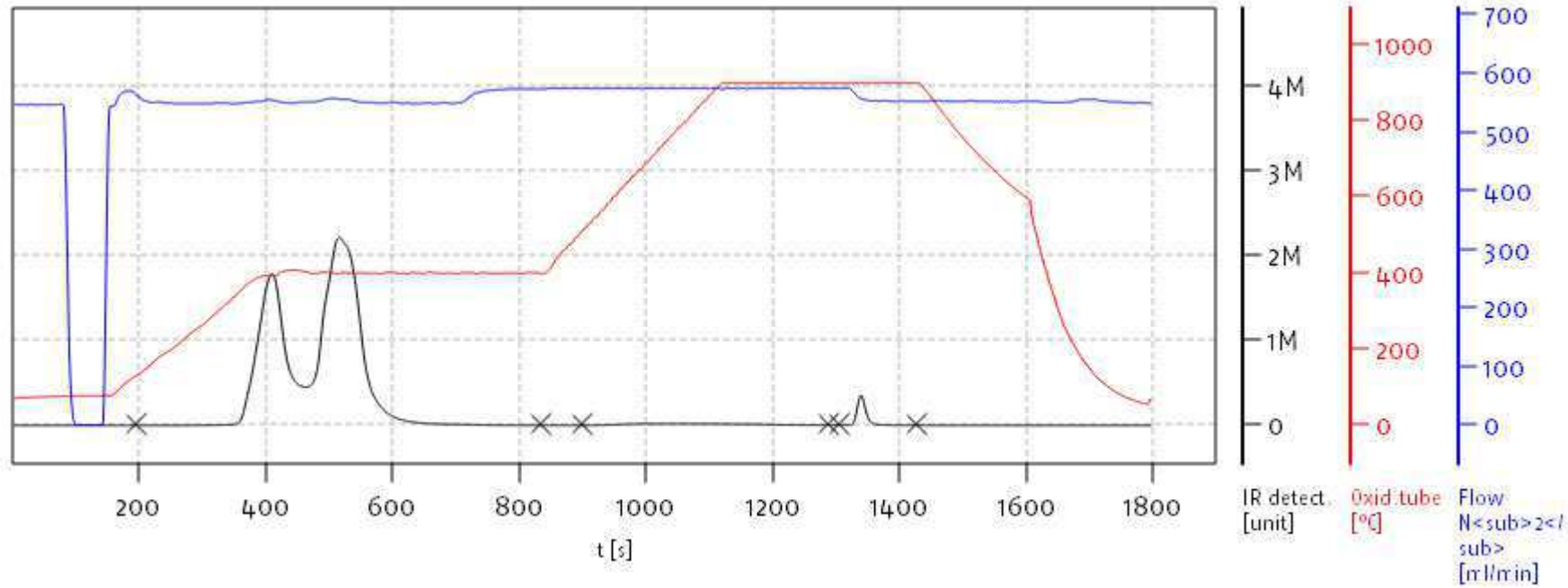
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	BKL0503-DUP1	560.00		CARBON	12/25/2022 2:00 AM	bl	2.538	9 250 589	2.579	0.052	216 153	175 303	2.485	0.041	0.9747	1.0000



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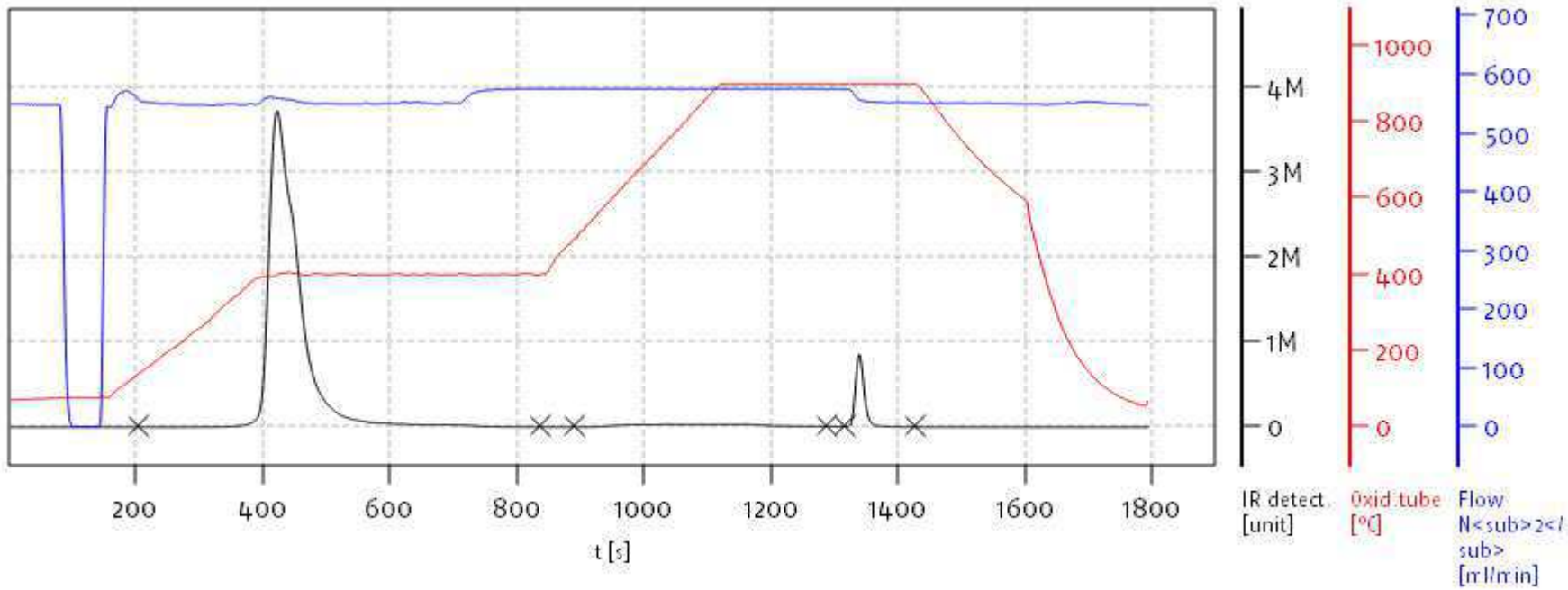
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	BKL0503-MS1	564.90	0.0084	CARBON	12/25/2022 2:30 AM	bl	2.121	7 469 579	2.198	0.133	513 152	305 635	1.988	0.076	0.9747	1.0000



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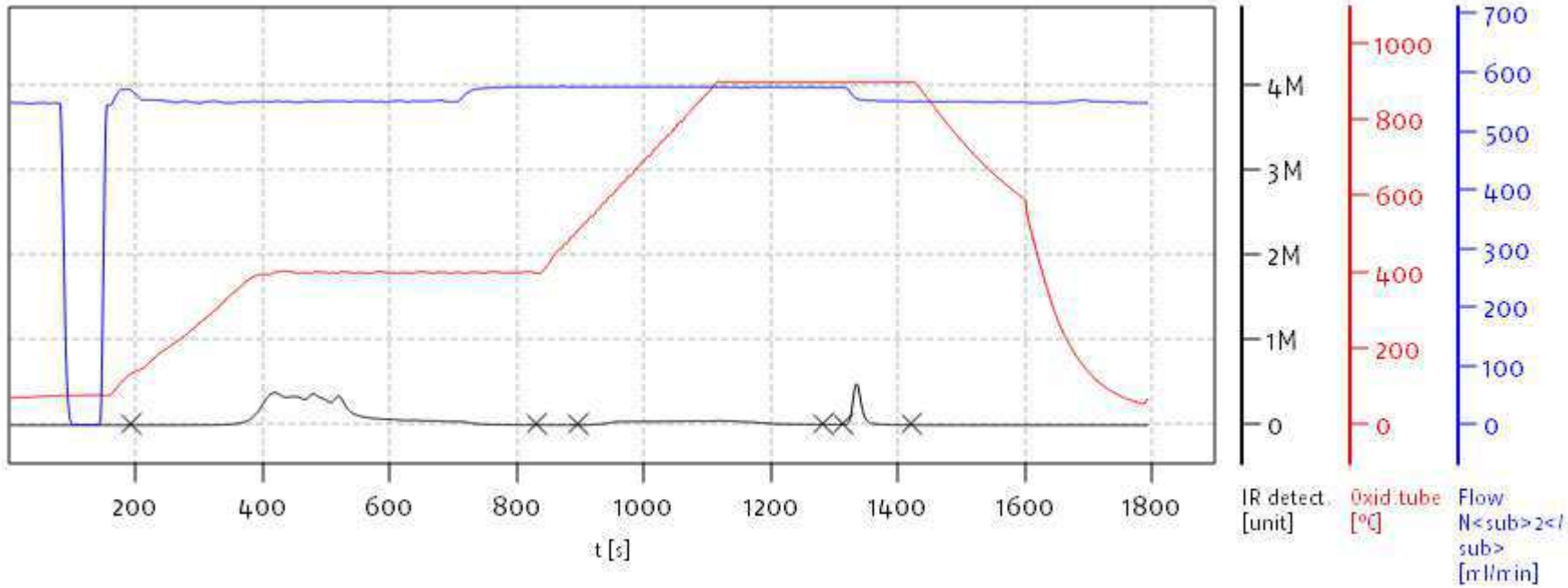
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	22L0246-26	562.00		CARBON	12/25/2022 3:01 AM	bl	0.681	2 282 944	0.798	0.075	299 110	450 410	0.606	0.117	0.9747	1.0000



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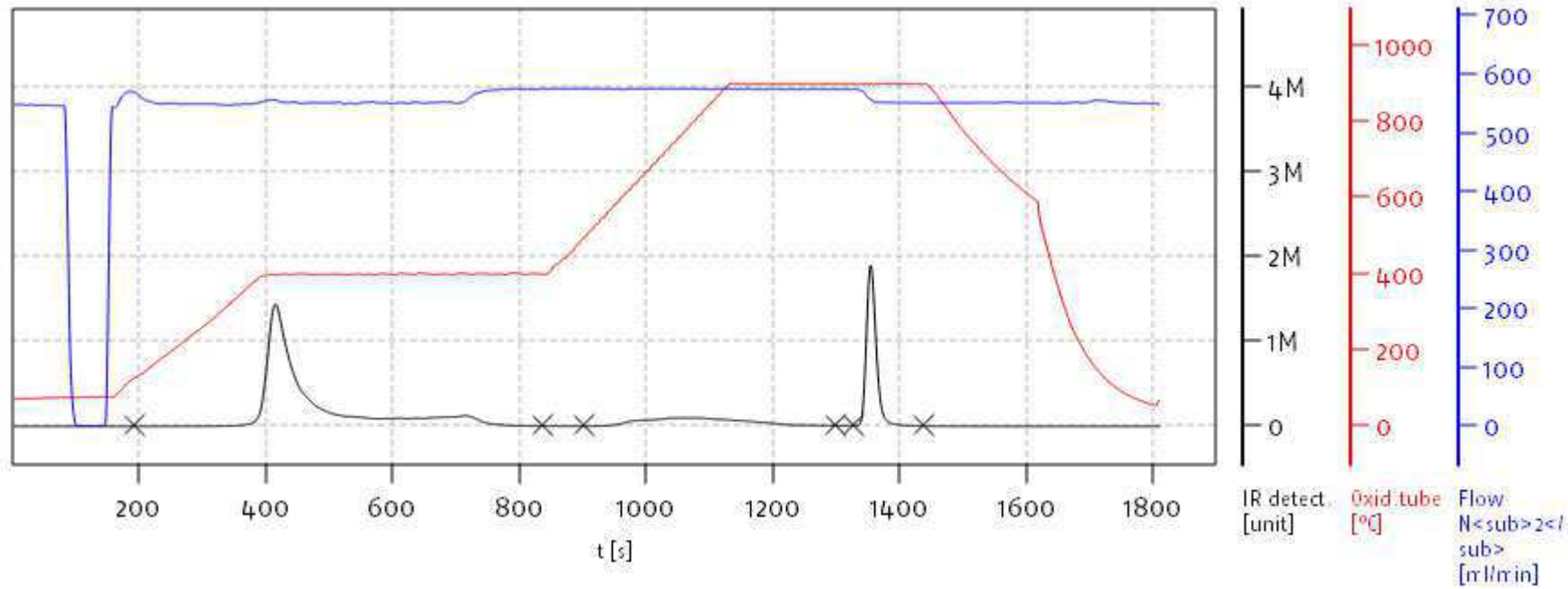
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	22L0246-27	516.90		CARBON	12/25/2022 3:31 AM	bl	1.424	3 613 342	1.645	0.377	1 284 972	763 828	1.047	0.221	0.9747	1.0000



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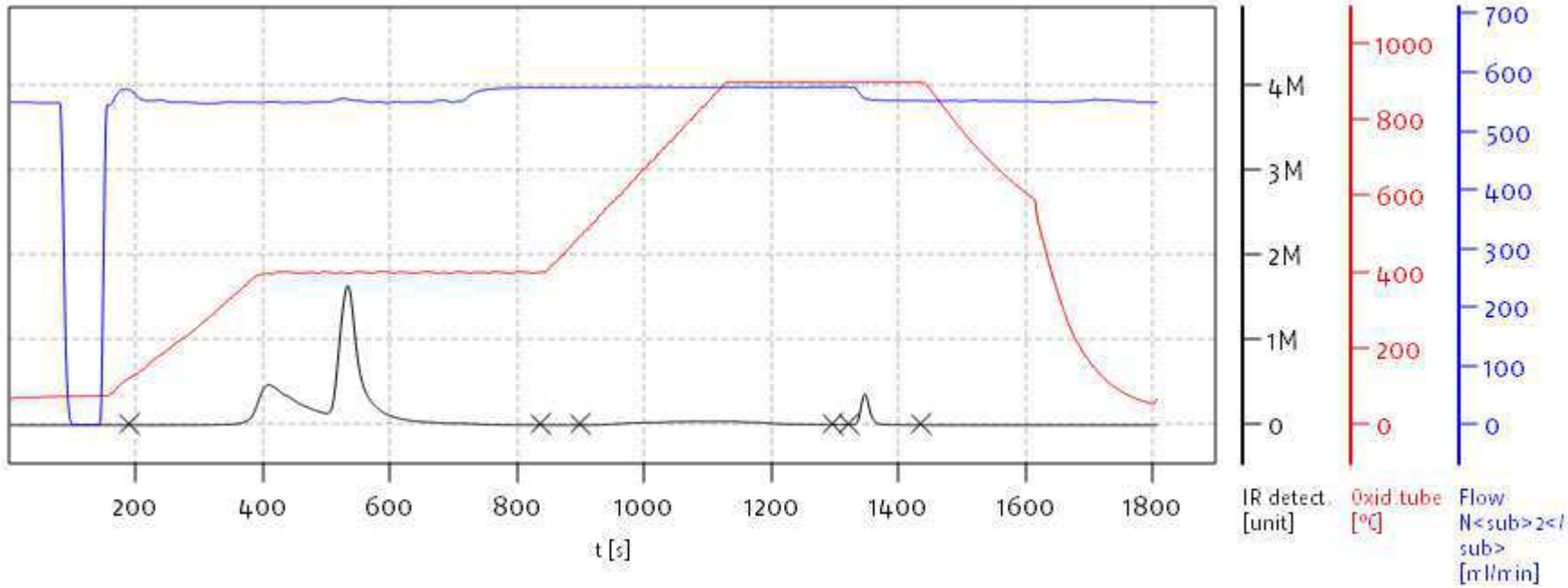
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	22L0246-28	514.80		CARBON	12/25/2022 4:02 AM	bl	1.178	3 841 798	1.278	0.060	224 723	358 890	1.118	0.100	0.9747	1.0000



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Soli TOC Cube, Carbon
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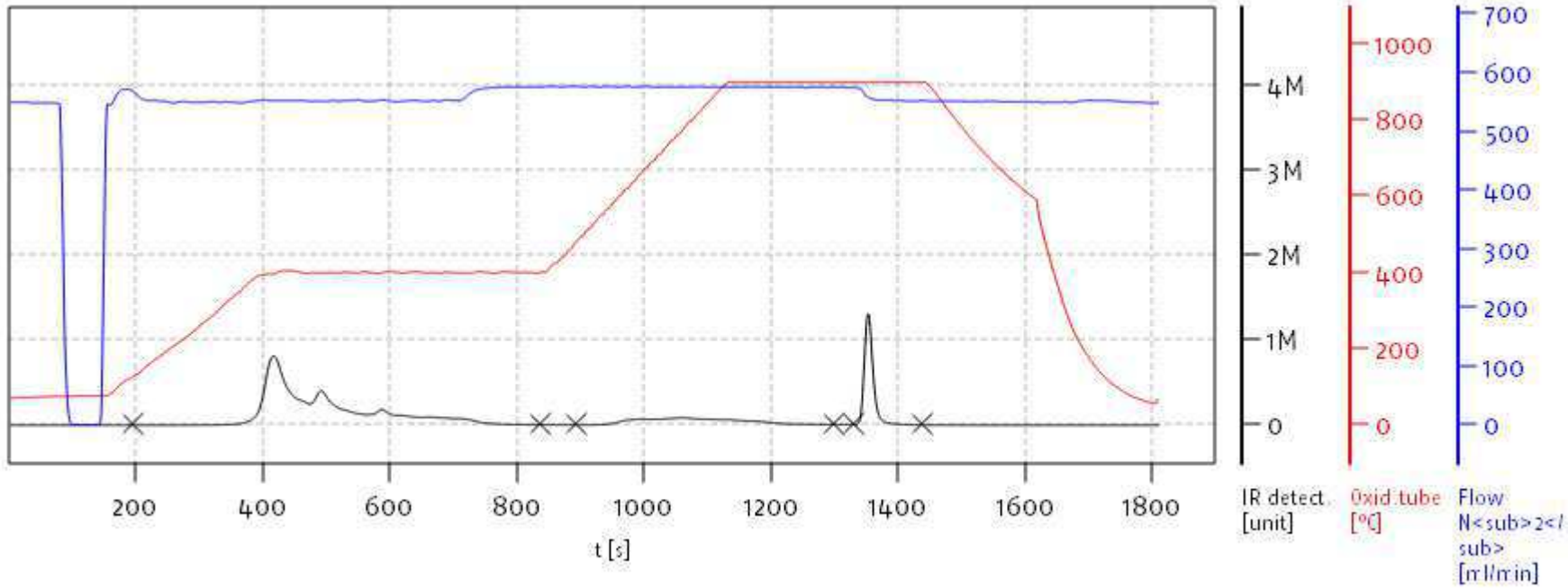
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	22L0246-29	501.90		CARBON	12/25/2022 4:32 AM	bl	1.125	2 974 262	1.317	0.238	799 652	651 716	0.886	0.193	0.9747	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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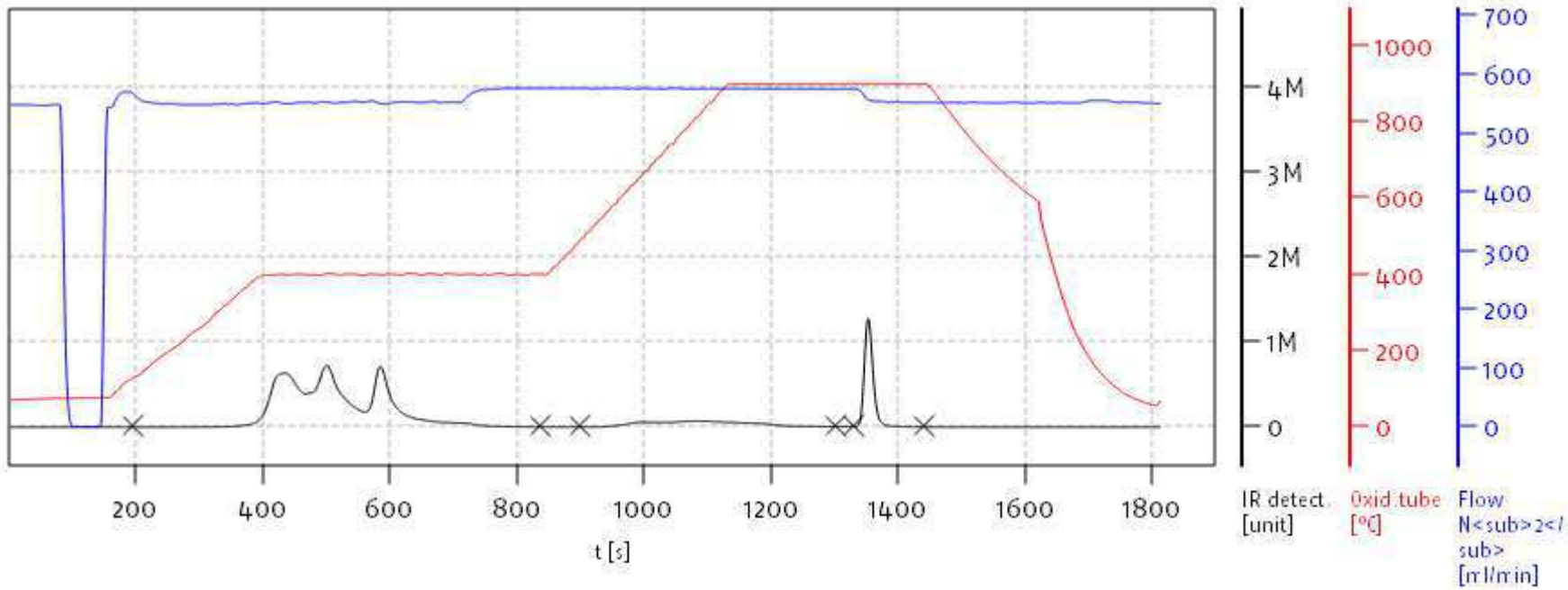
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22L0246-30	515.70		CARBON	12/25/2022 5:03 AM	bl	1.377	3 969 039	1.533	0.223	770 291	545 755	1.154	0.156	0.9747	1.0000



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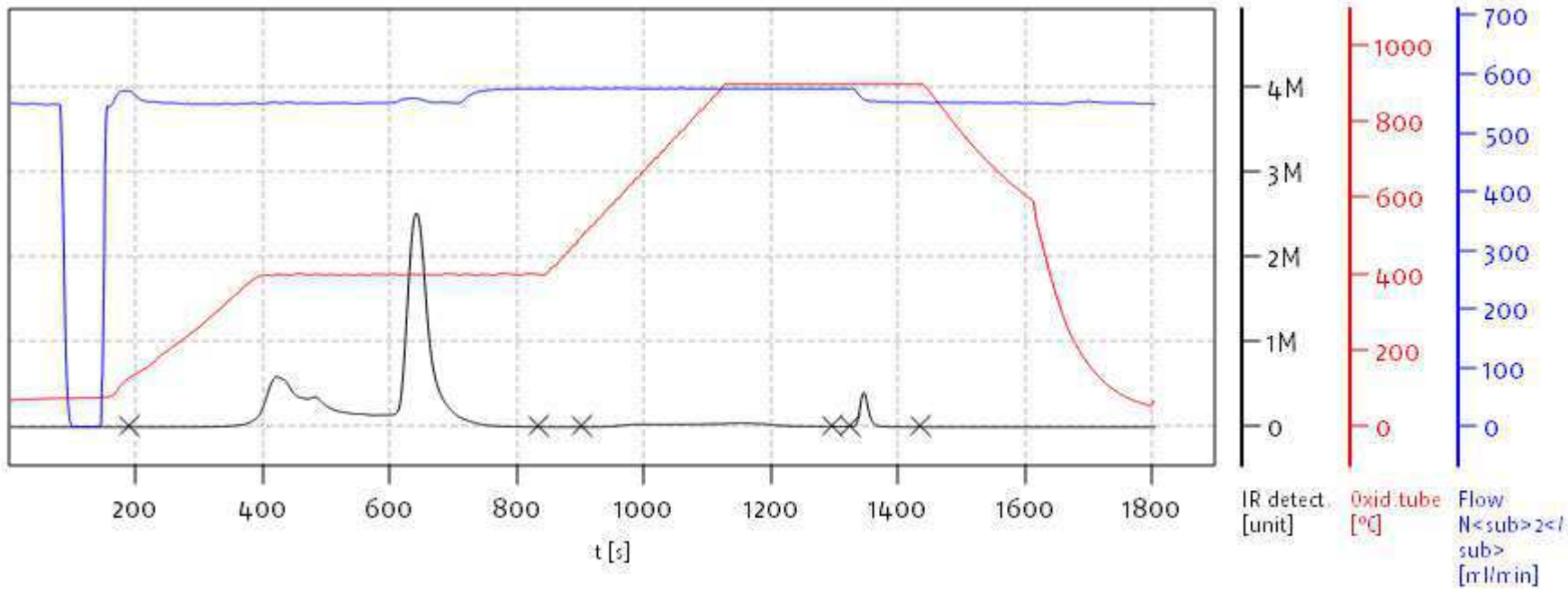
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	22L0246-31	520.50		CARBON	12/25/2022 5:33 AM	bl	1.832	6 125 211	1.931	0.064	241 077	361 336	1.768	0.100	0.9747	1.0000



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Balance: BAL3
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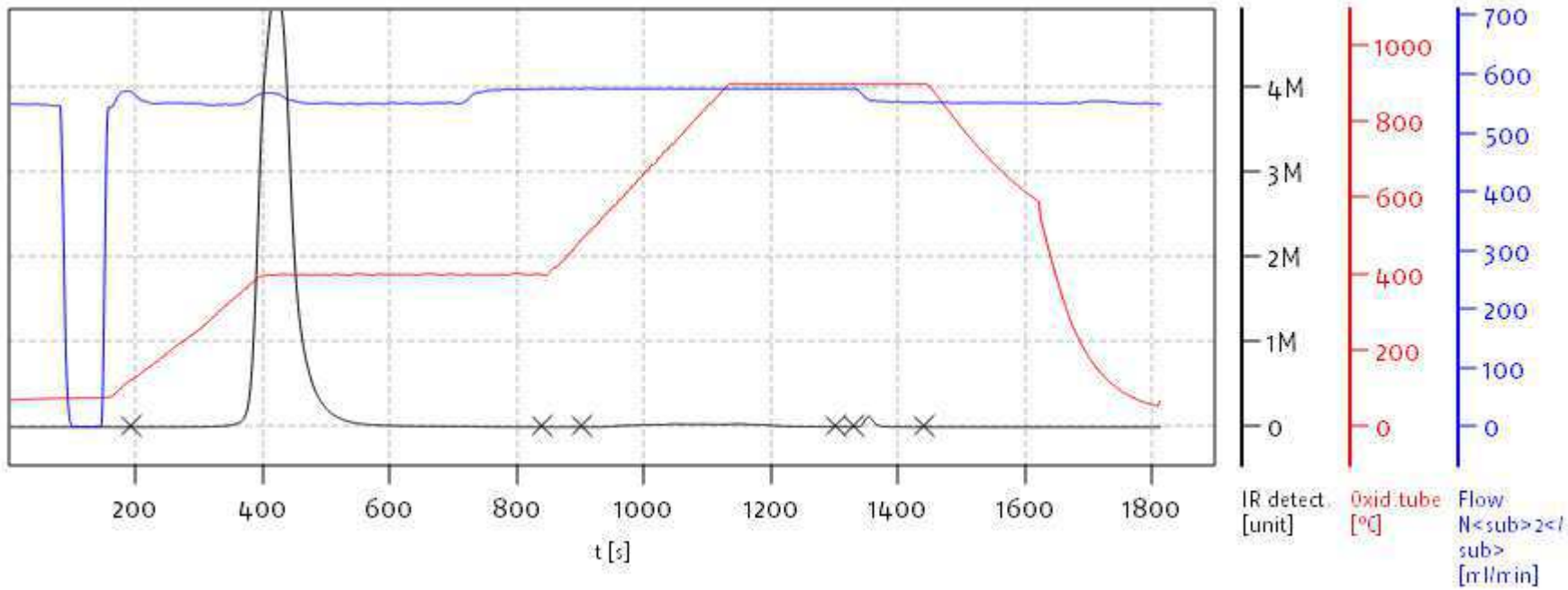
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	22L0246-32	503.10		CARBON	12/25/2022 6:04 AM	bl,C1o	3.416	11 357 129	3.500	0.017	82 797	299 493	3.398	0.084	0.9747	1.0000



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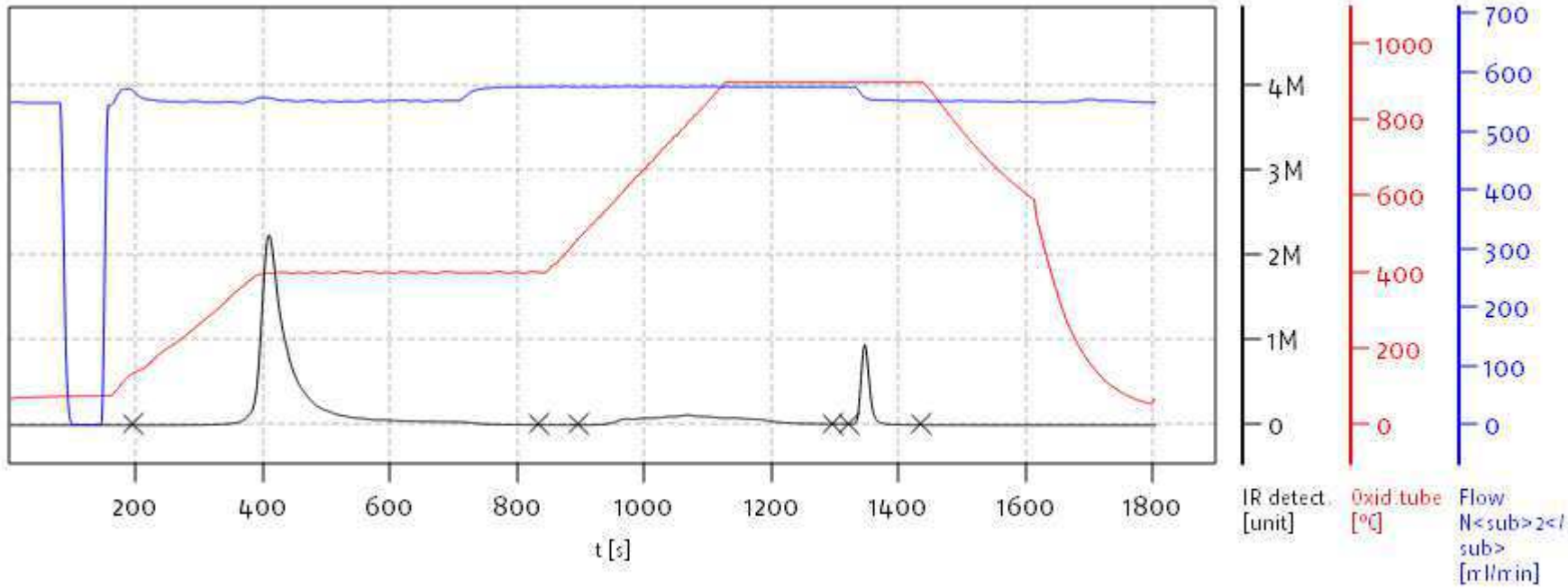
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22L0246-33	522.50		CARBON	12/25/2022 6:34 AM	bl	1.419	4 385 388	1.674	0.160	566 231	887 958	1.259	0.255	0.9747	1.0000



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Balance: BAL3
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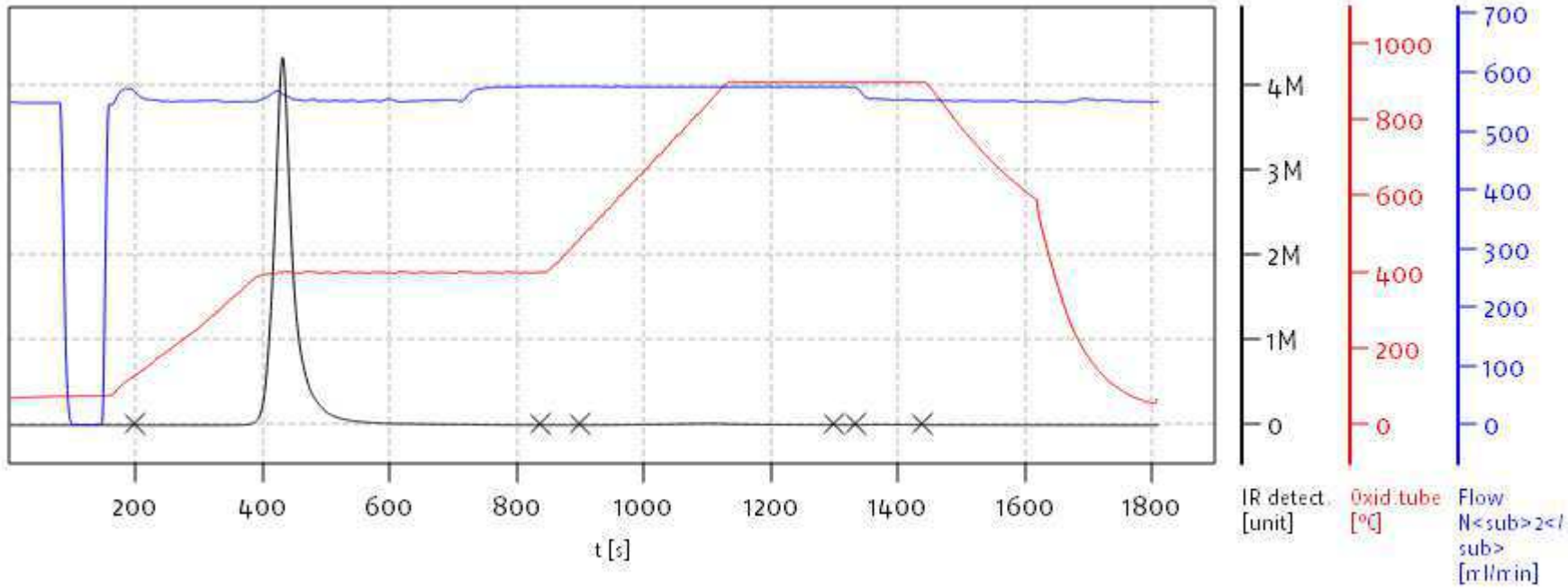
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0311-CCV3	20.20		CARBON	12/25/2022 7:05 AM	bl	43.592	5 862 147	44.289	0.000	20 897	117 523	43.592	0.697	0.9747	1.0000



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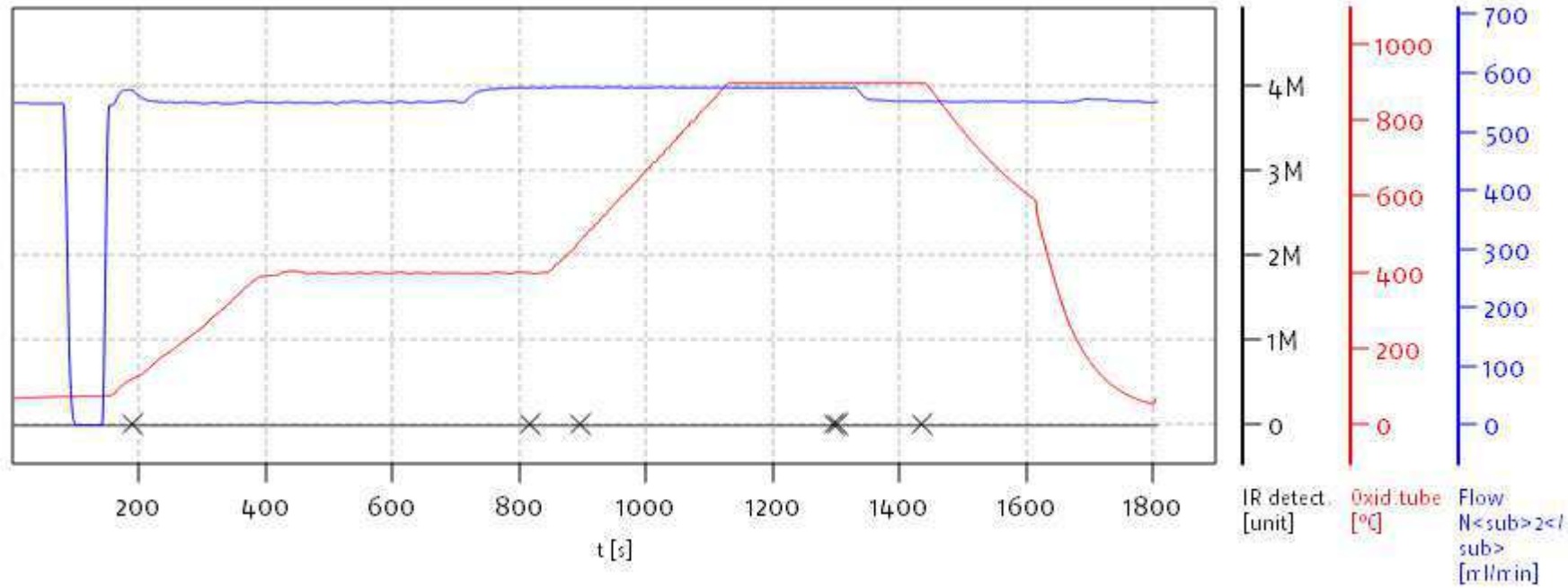
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0311-CCB3	561.80		CARBON	12/25/2022 7:35 AM	bl,C3u,C2u	0.000	5 063	0.000	0.000	637	794	0.000	0.000	0.9747	1.0000



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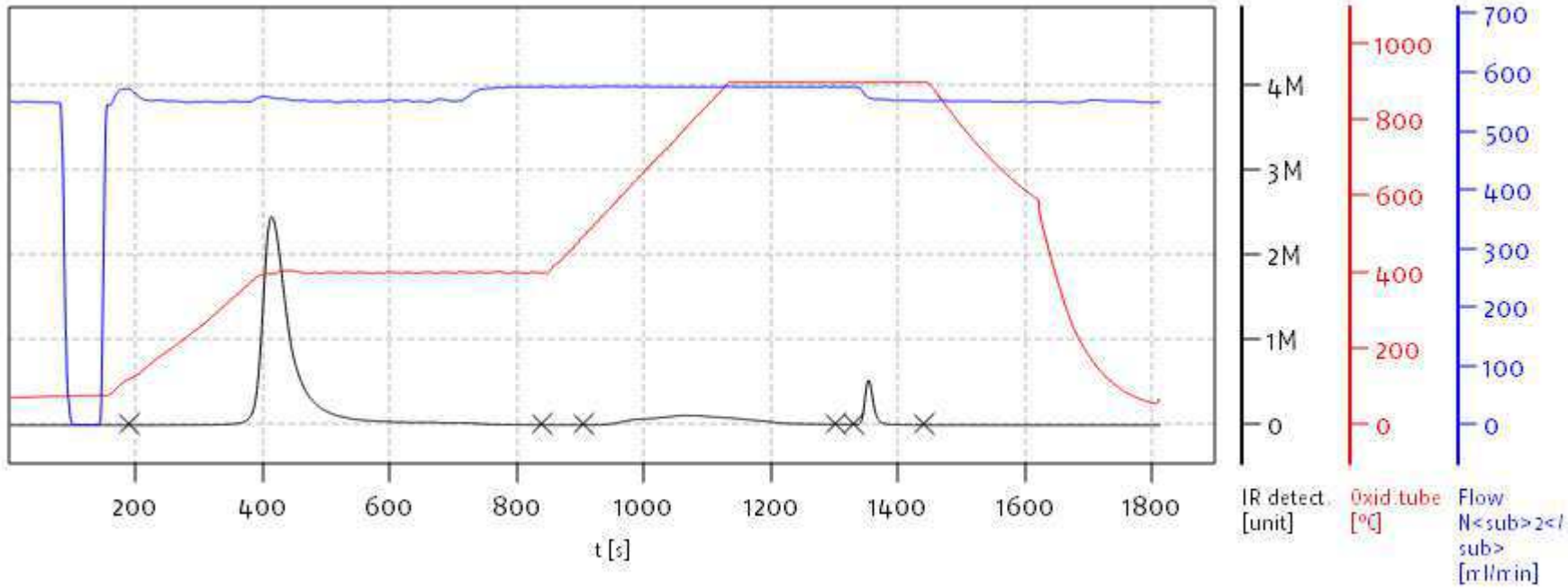
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0246-34	549.90		CARBON	12/25/2022 8:06 AM	bl	1.417	4 884 094	1.639	0.084	324 248	815 862	1.333	0.222	0.9747	1.0000



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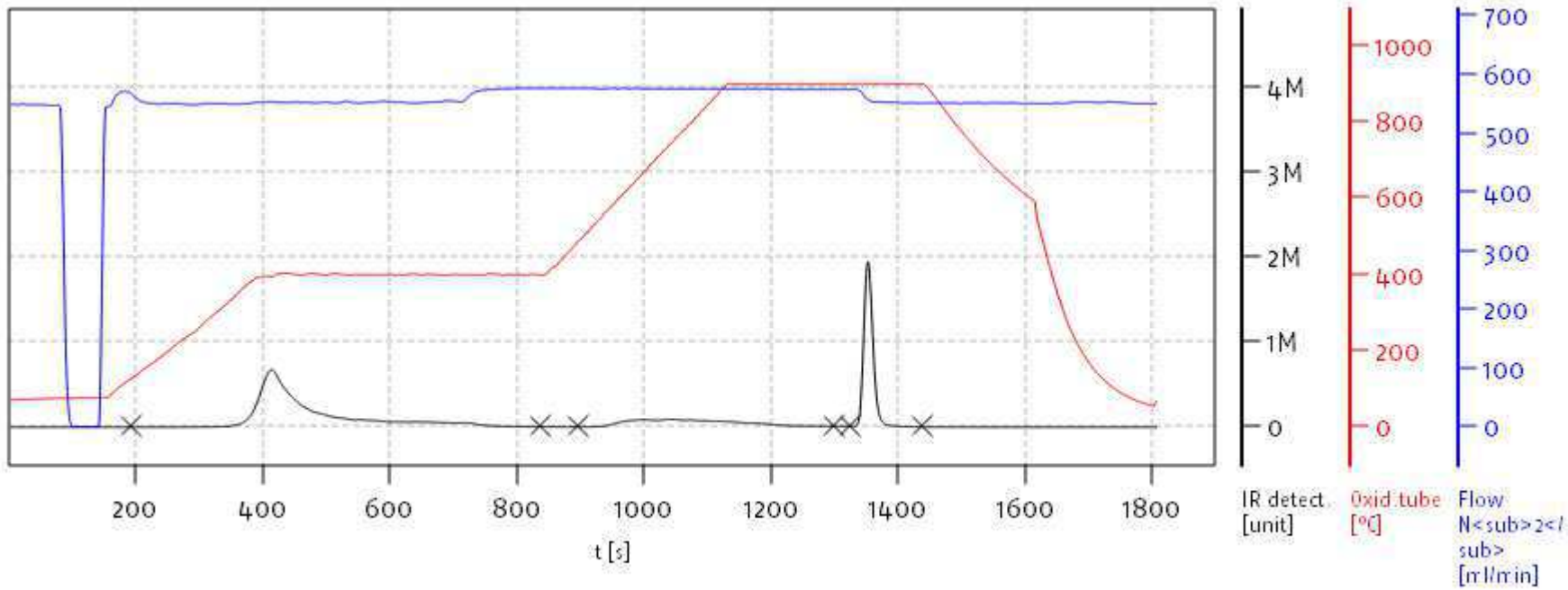
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22L0246-35	507.20		CARBON	12/25/2022 8:37 AM	bl	1.055	2 322 042	1.268	0.372	1 245 603	723 544	0.683	0.213	0.9747	1.0000



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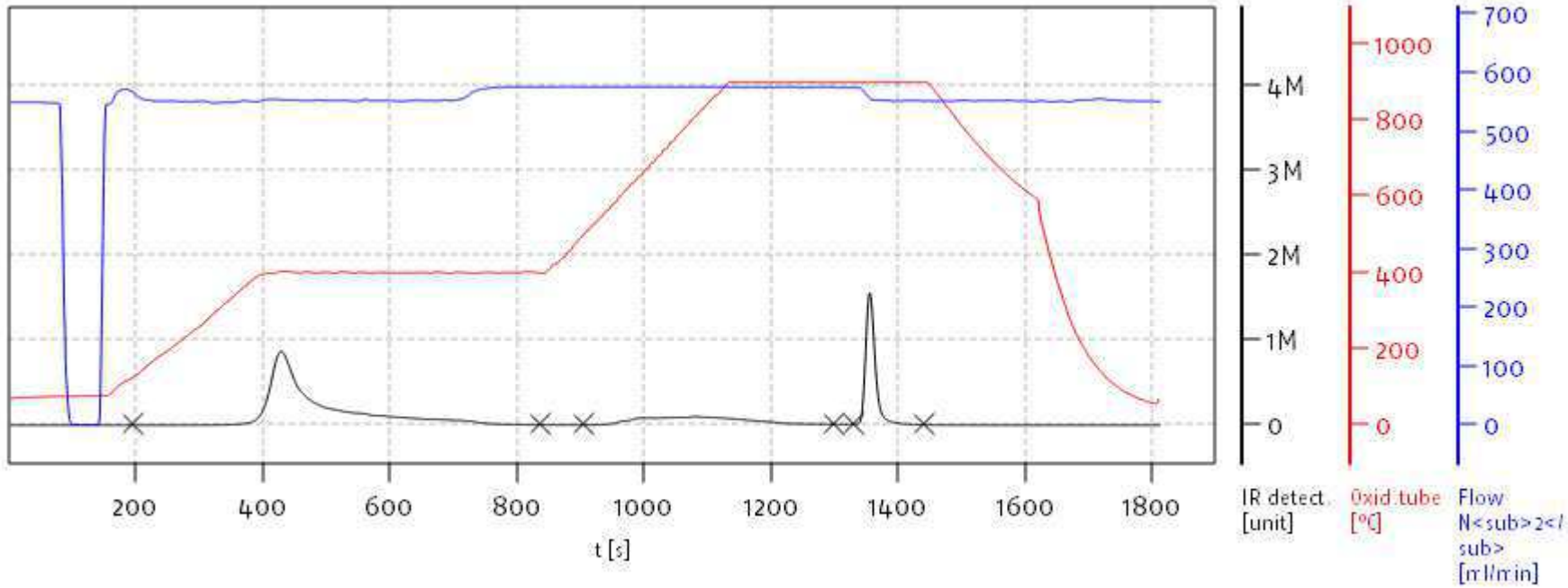
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22L0246-36	537.40		CARBON	12/25/2022 9:07 AM	bl	1.062	2 774 233	1.277	0.291	1 035 024	772 008	0.772	0.215	0.9747	1.0000



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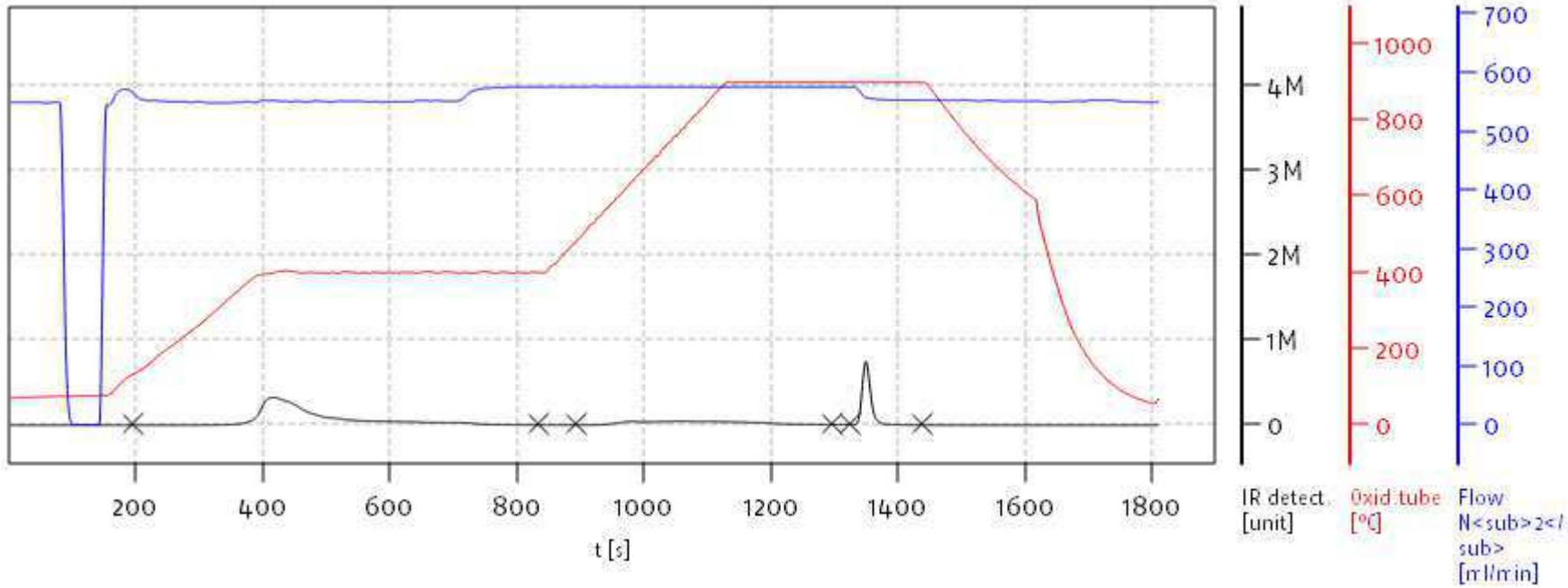
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	22L0246-37	556.80		CARBON	12/25/2022 9:38 AM	bl	0.476	1 356 017	0.581	0.116	444 354	402 196	0.360	0.104	0.9747	1.0000



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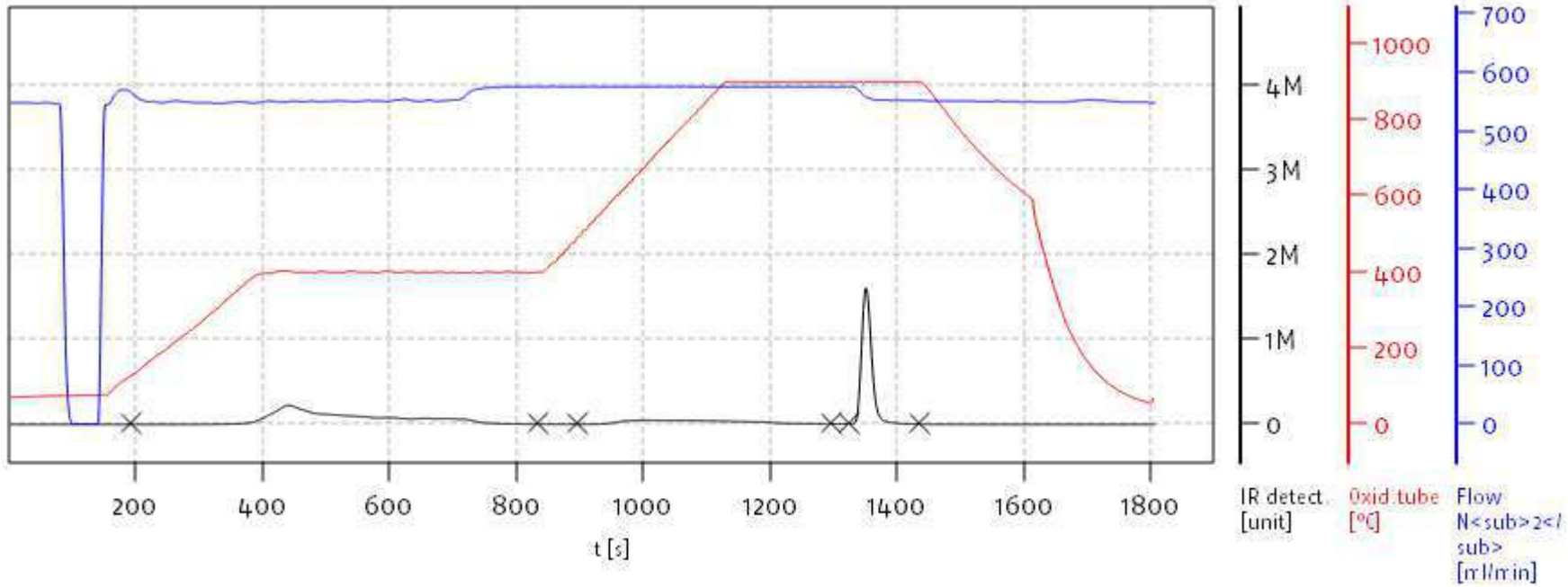
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	22L0246-38	594.00		CARBON	12/25/2022 10:08 AM	bl	0.627	1 372 134	0.730	0.285	1 118 928	423 724	0.342	0.104	0.9747	1.0000



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Access: soliTOC superuser

Date: Mon Dec 26 13:49:33 2022

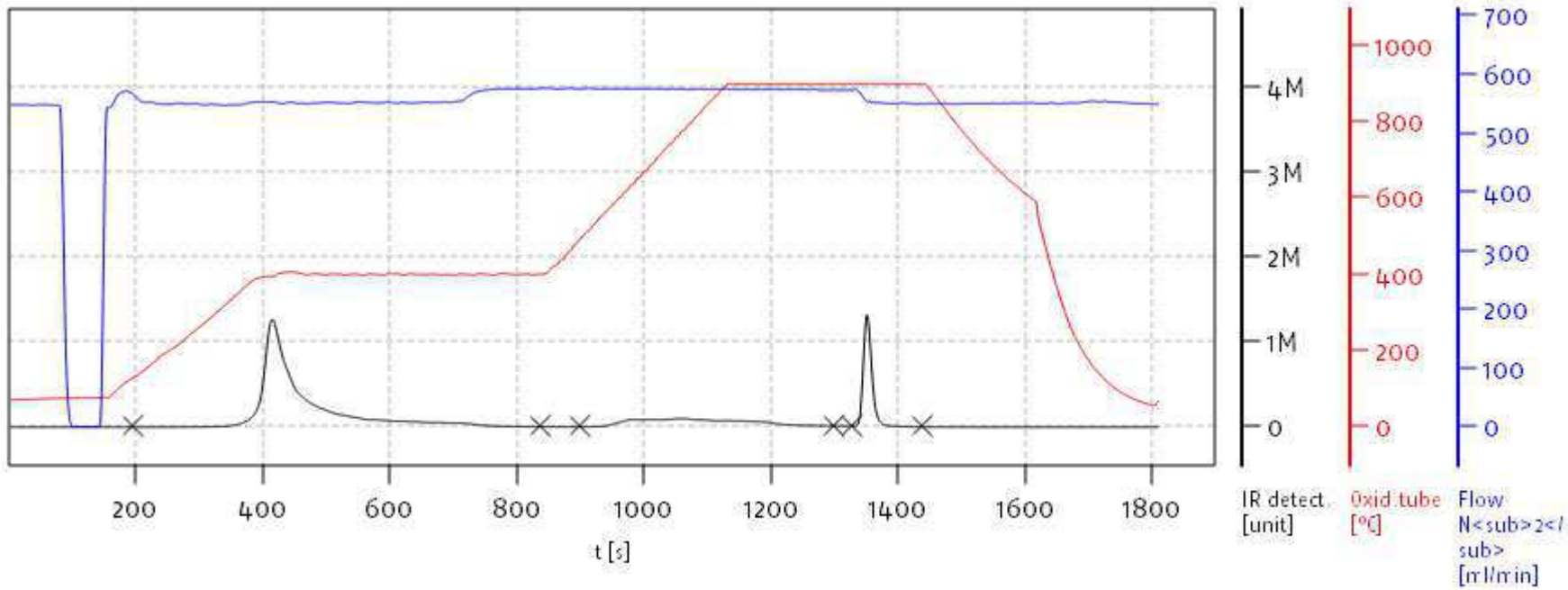
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	22L0246-39	557.10		CARBON	12/25/2022 10:39 AM	bl	1.071	3 195 809	1.298	0.212	791 170	845 334	0.858	0.228	0.9747	1.0000



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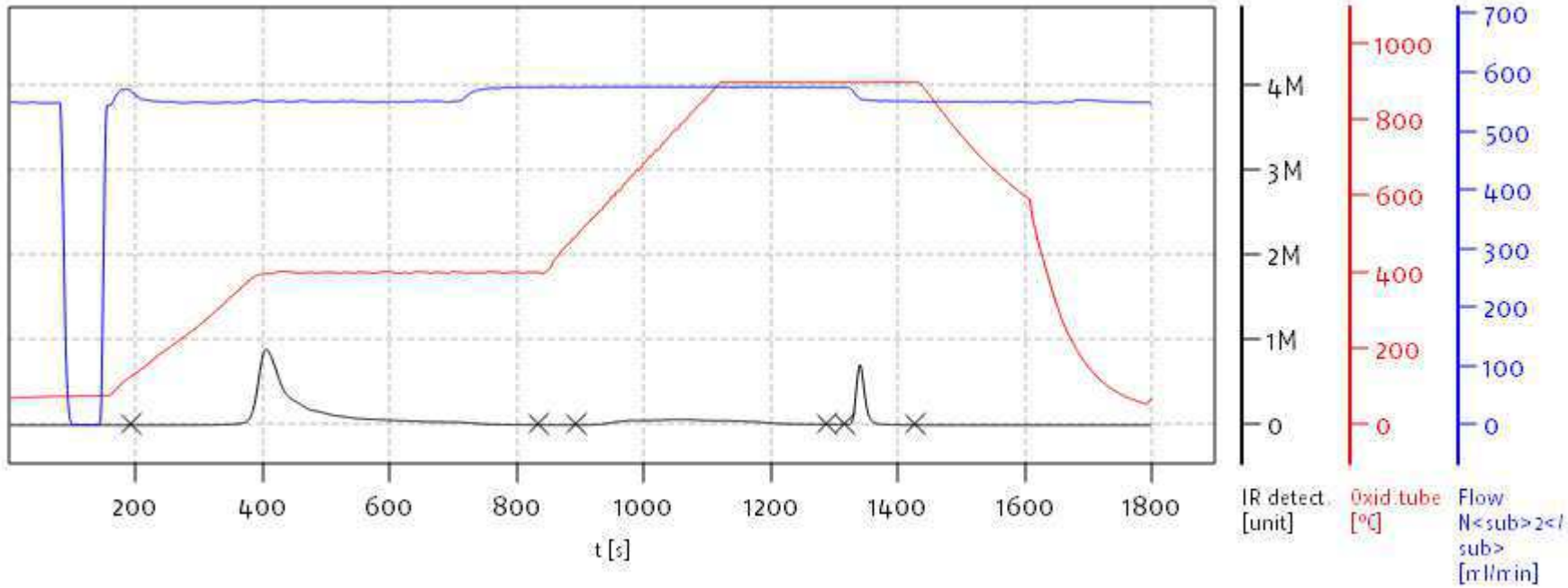
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	22L0246-40	510.20		CARBON	12/25/2022 11:09 AM	bl	0.811	2 351 355	0.969	0.123	432 724	547 712	0.688	0.158	0.9747	1.0000



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Soli TOC Cube, Carbon
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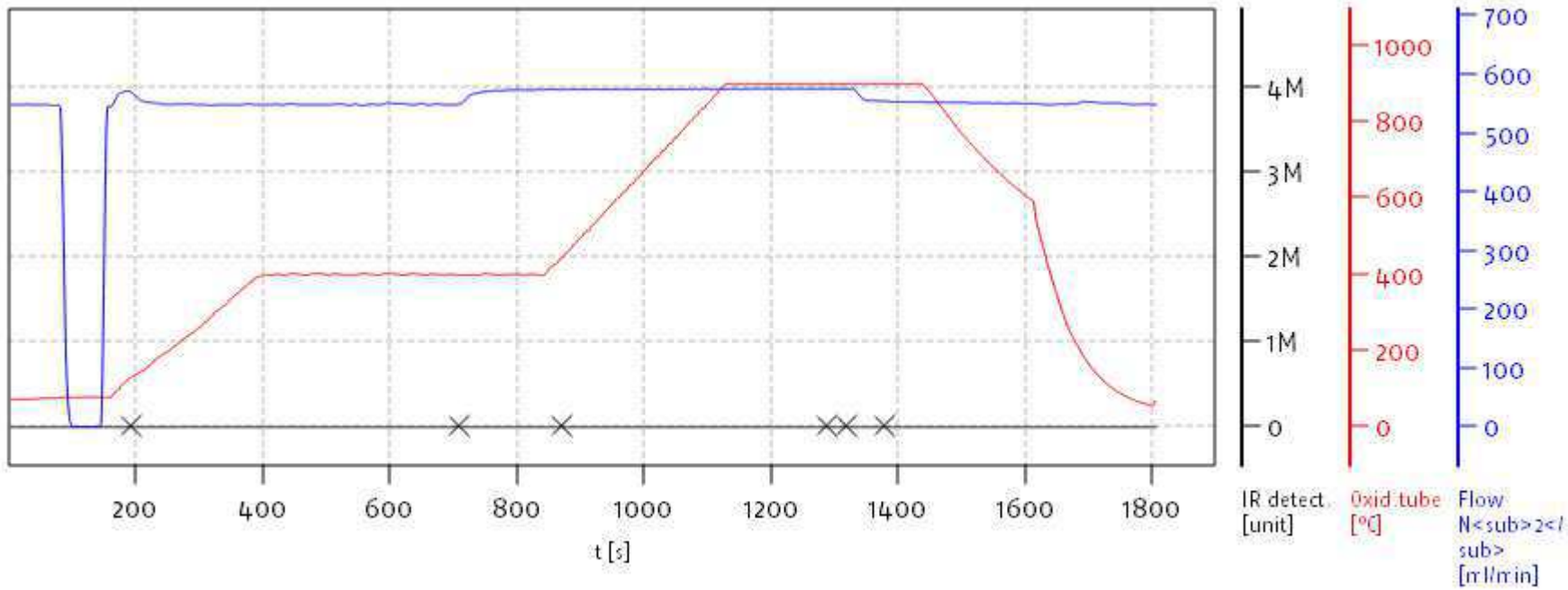
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/25/2022 11:40 AM	bl	0.000	5 652	0.000	0.000	113	1 629	0.000	0.000	0.9747	1.0000



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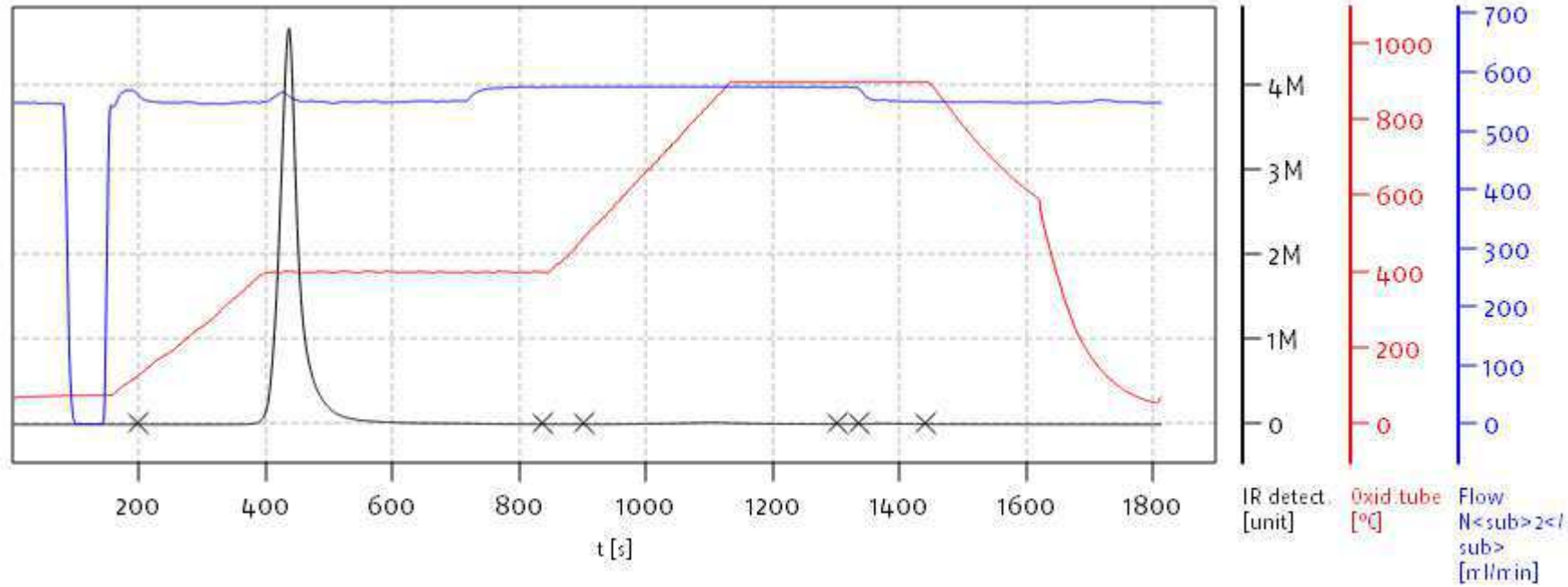
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	21.70		CARBON	12/25/2022 12:10 PM	bl	44.446	6 406 735	45.172	0.000	26 463	128 298	44.446	0.726	0.9765	1.0000



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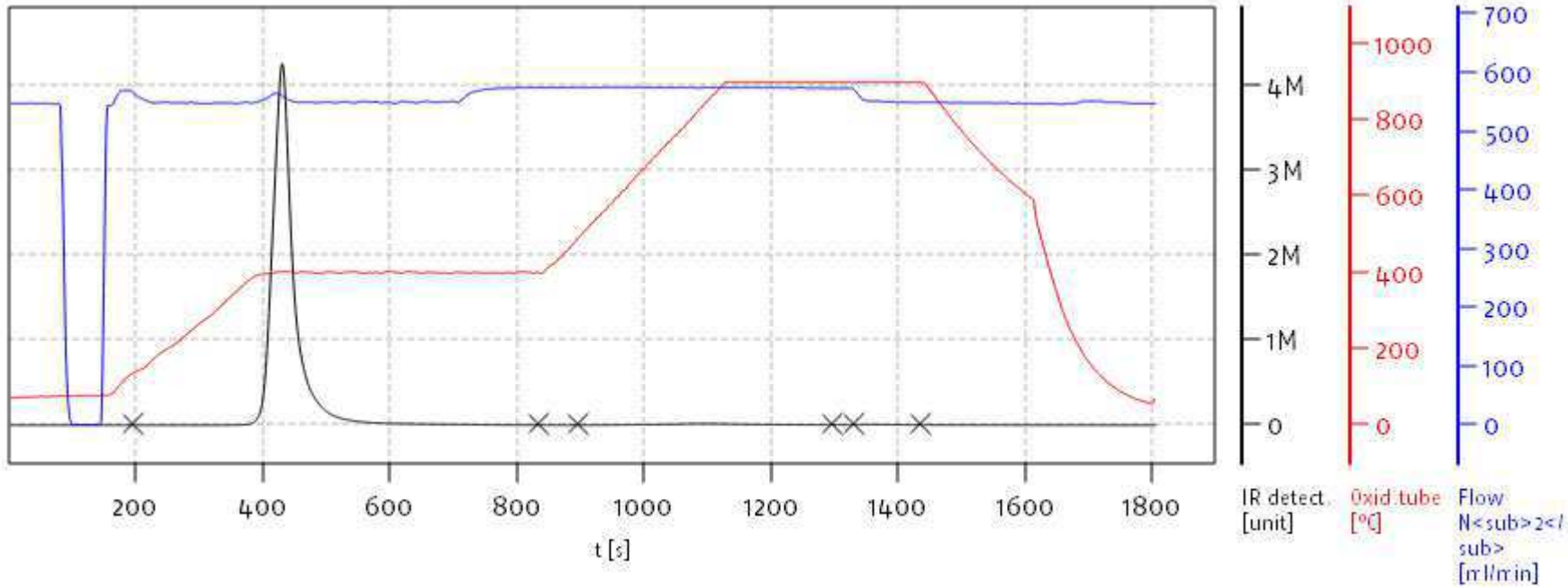
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	20.80		CARBON	12/25/2022 12:41 PM	bl	44.446	6 136 057	45.110	0.000	21 612	115 860	44.446	0.665	0.9775	1.0000



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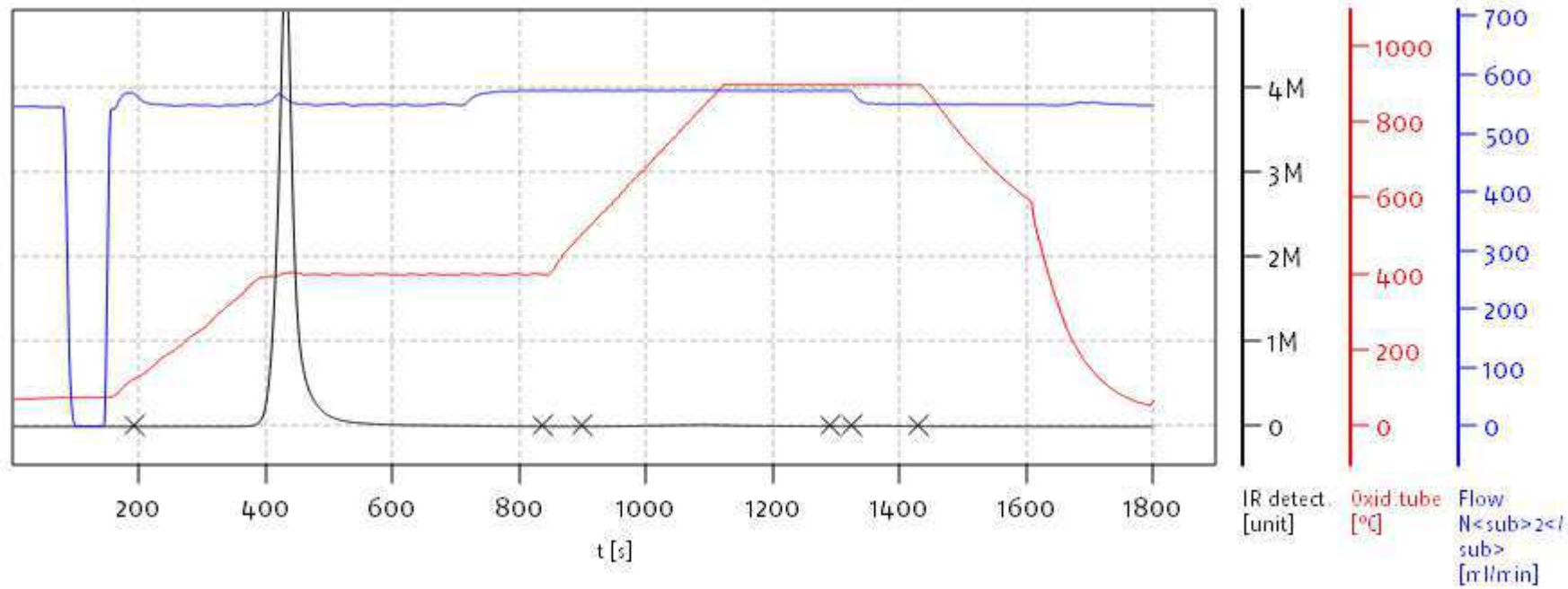
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0311-CCV4	21.20		CARBON	12/25/2022 1:11 PM	bl	44.365	6 245 342	45.141	0.000	24 859	132 799	44.365	0.776	0.9770	1.0000



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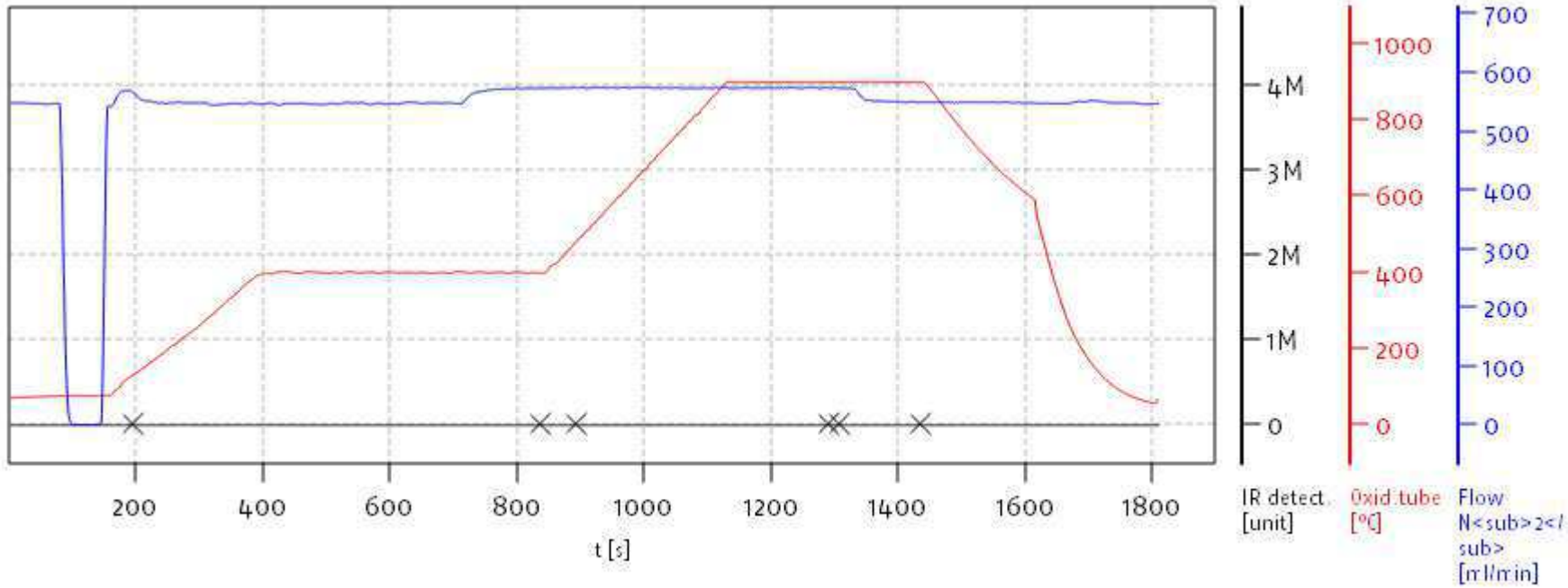
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0311-CCB4	515.60		CARBON	12/25/2022 1:42 PM	bl,C2u	0.000	6 691	0.000	0.000	1 015	3 431	0.000	0.000	0.9770	1.0000



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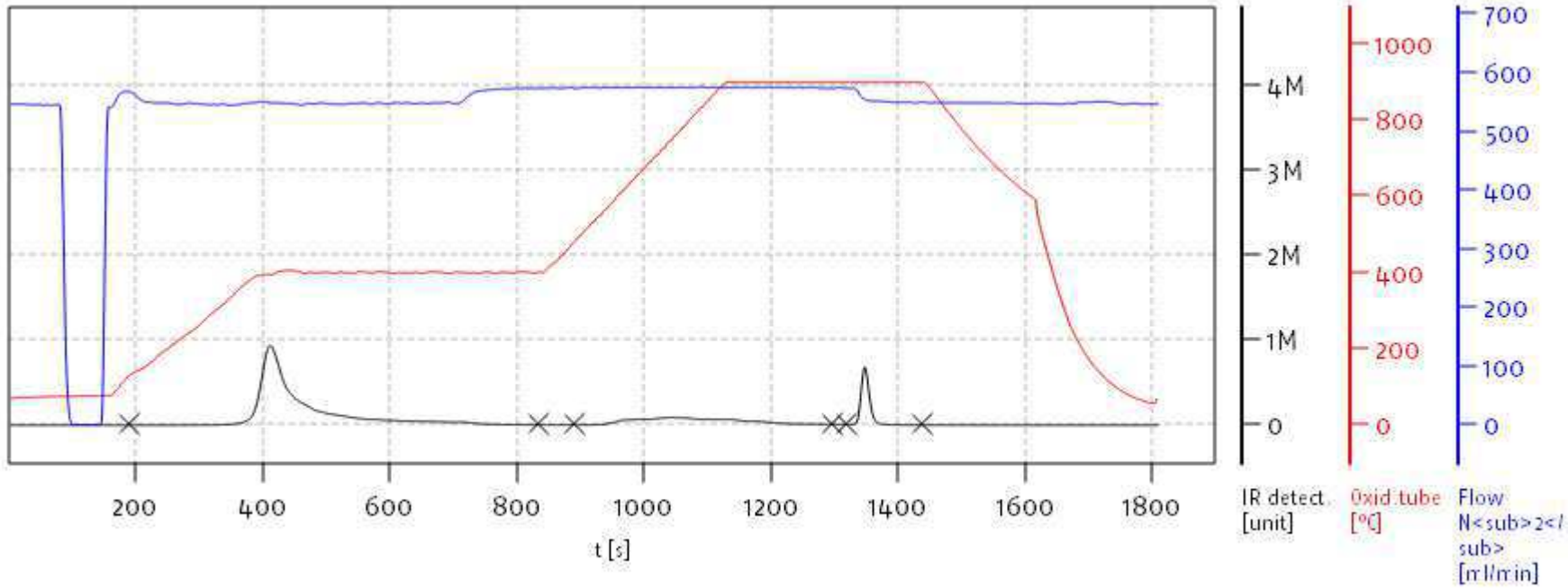
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0246-41	522.50		CARBON	12/25/2022 2:12 PM	bl	0.809	2 441 226	1.004	0.110	399 264	684 257	0.699	0.195	0.9770	1.0000



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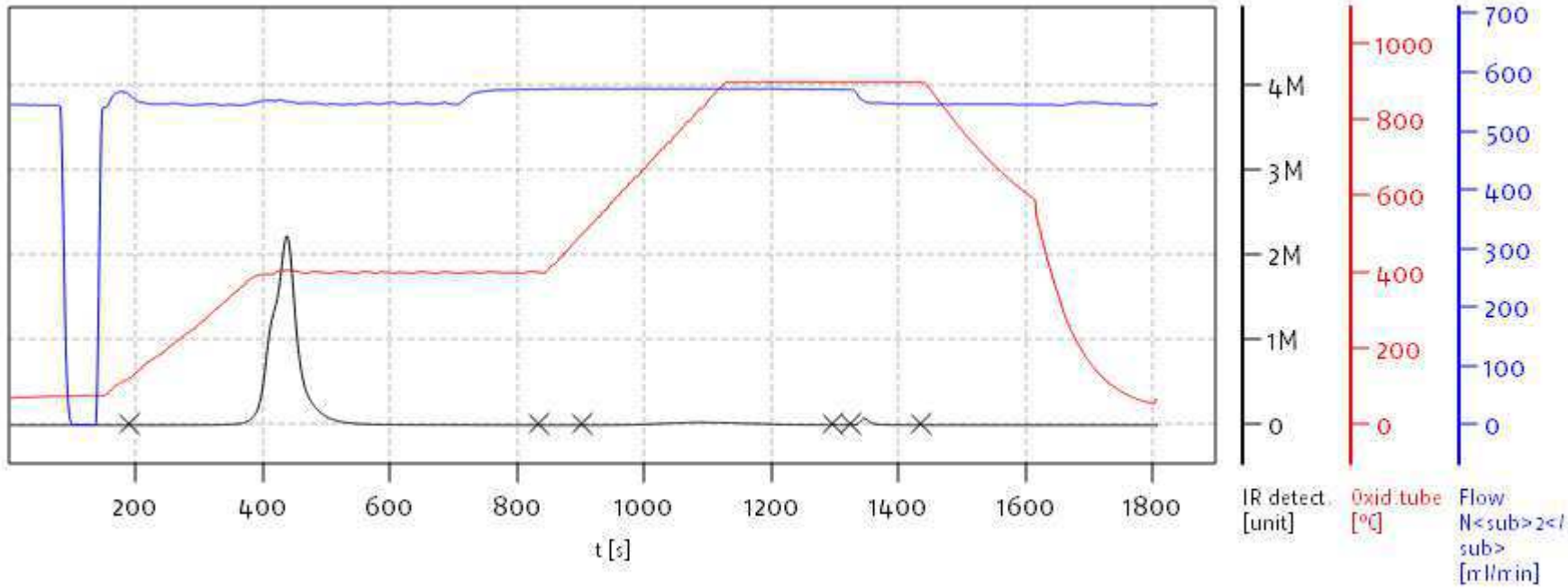
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	22L0246-42	511.90		CARBON	12/25/2022 2:43 PM	bl	1.162	3 927 411	1.214	0.009	57 094	198 476	1.153	0.052	0.9770	1.0000



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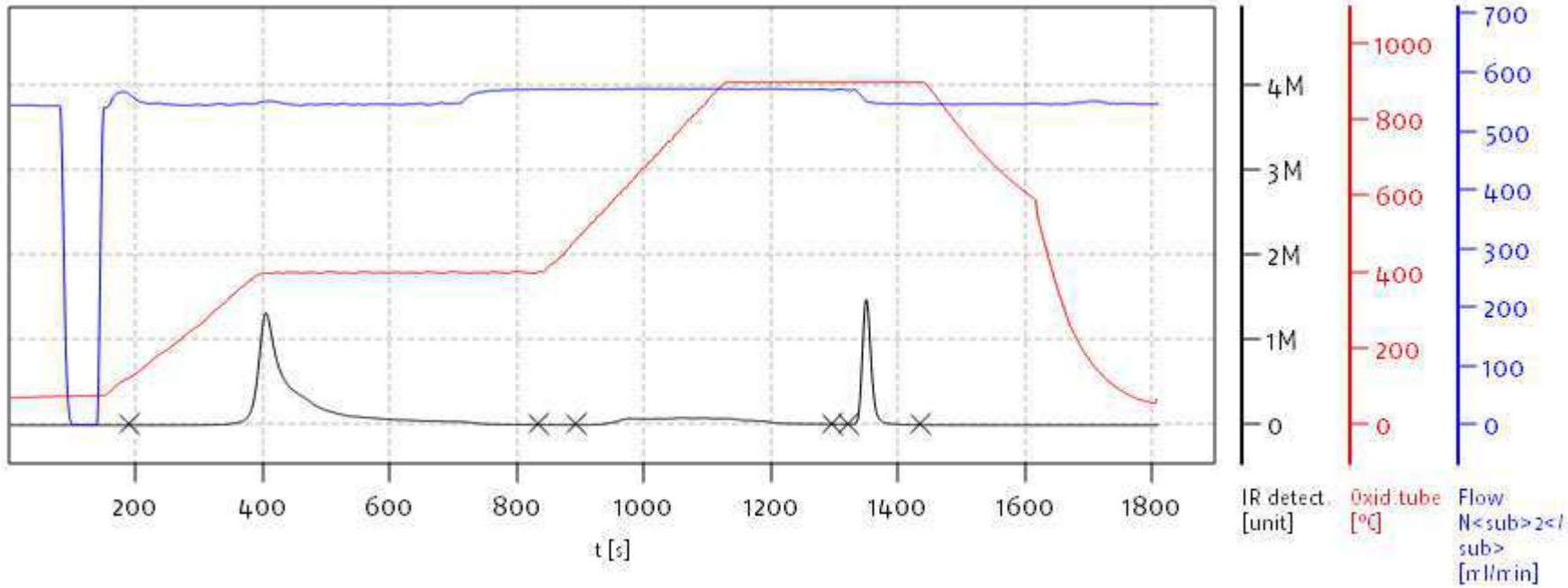
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	22L0246-43	530.00		CARBON	12/25/2022 3:13 PM	bl	1.153	3 156 998	1.359	0.260	915 249	733 506	0.893	0.206	0.9770	1.0000



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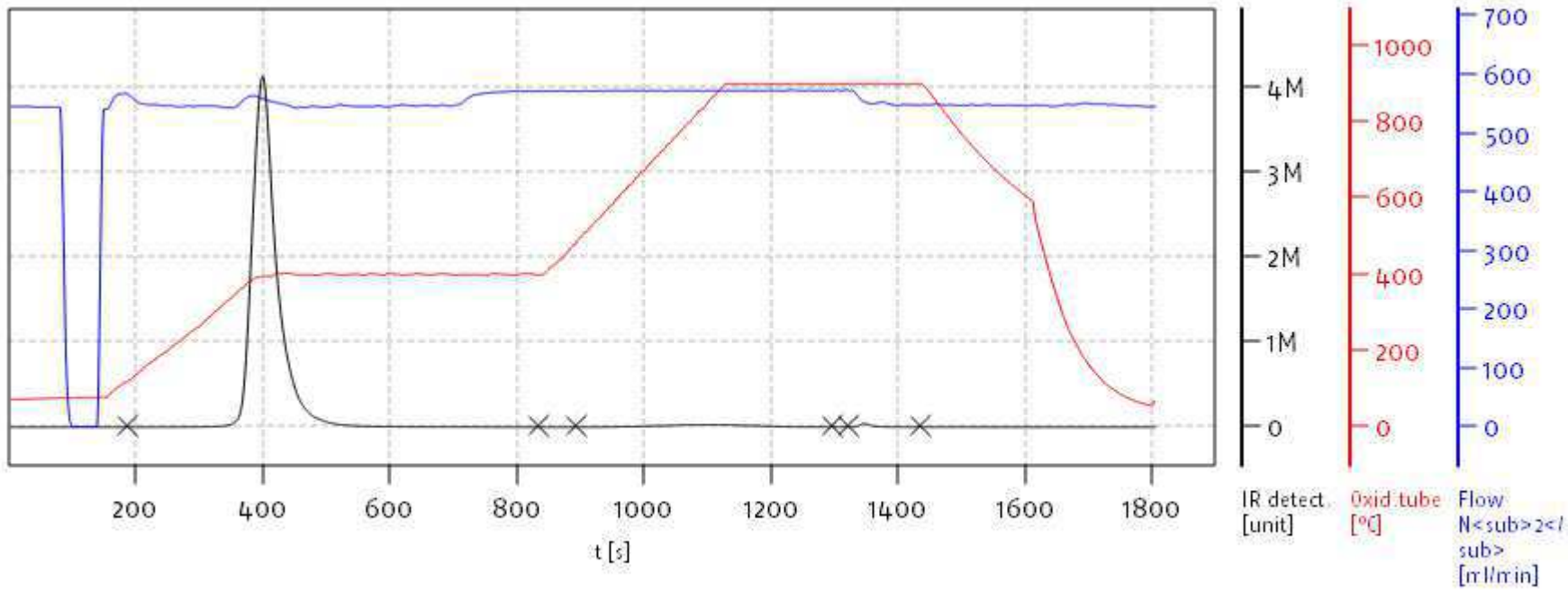
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0246-44	508.90		CARBON	12/25/2022 3:44 PM	bl	2.068	6 976 193	2.114	0.003	35 225	177 545	2.065	0.046	0.9770	1.0000



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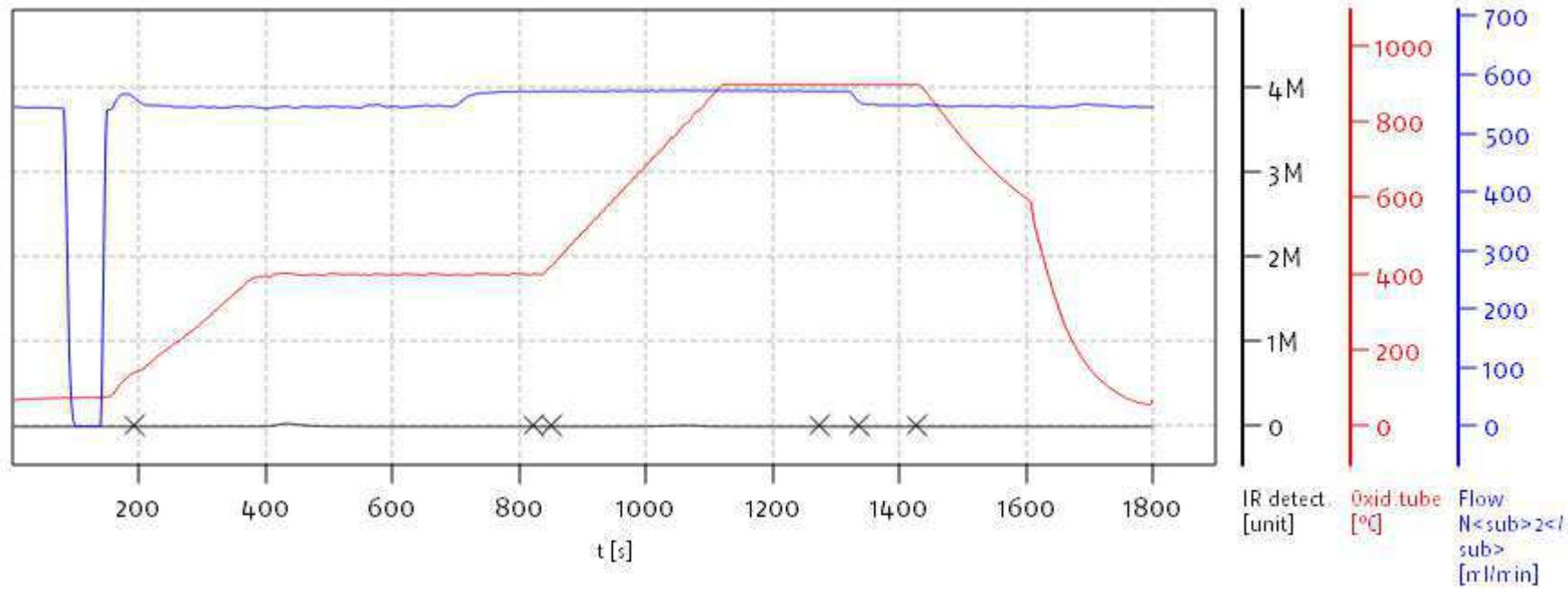
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	BKL0504-MRL1	514.50		CARBON	12/25/2022 4:14 PM	bl,C2u	0.014	74 594	0.017	0.000	329	35 798	0.014	0.003	0.9770	1.0000



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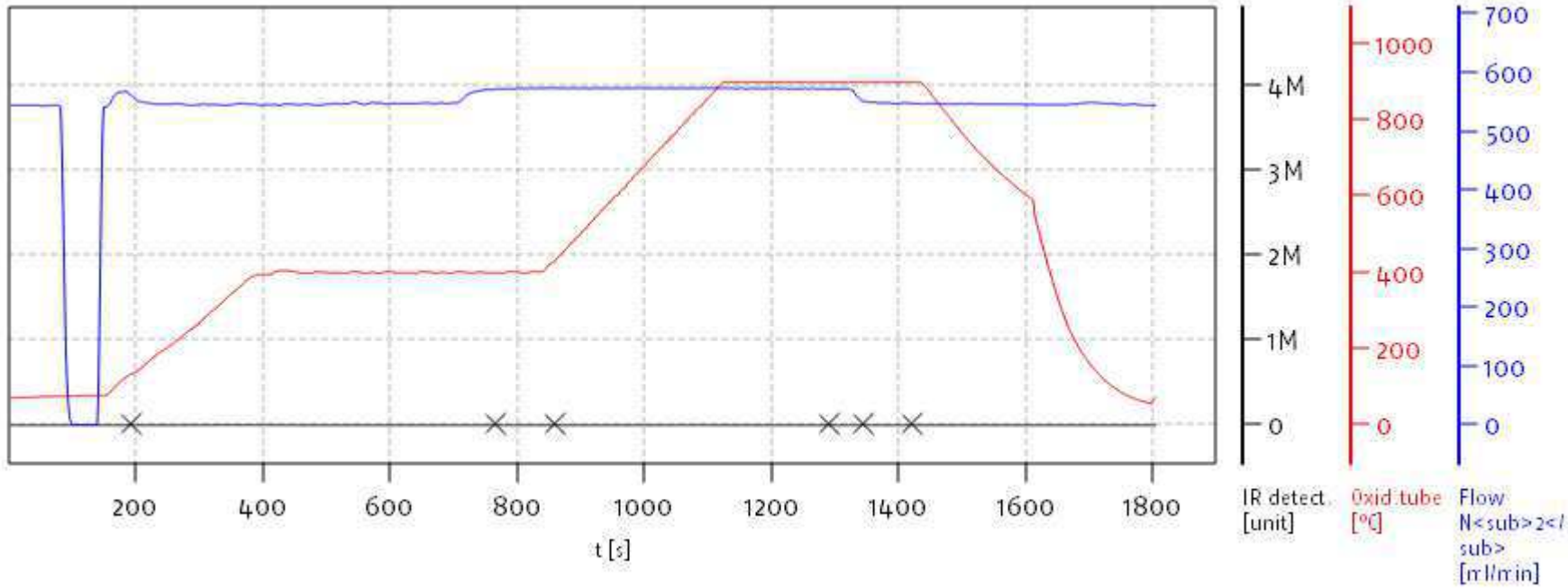
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	BKL0504-BLK1	523.90		CARBON	12/25/2022 4:45 PM	bl,C2u	0.000	10 884	0.000	0.000	230	4 089	0.000	0.000	0.9770	1.0000



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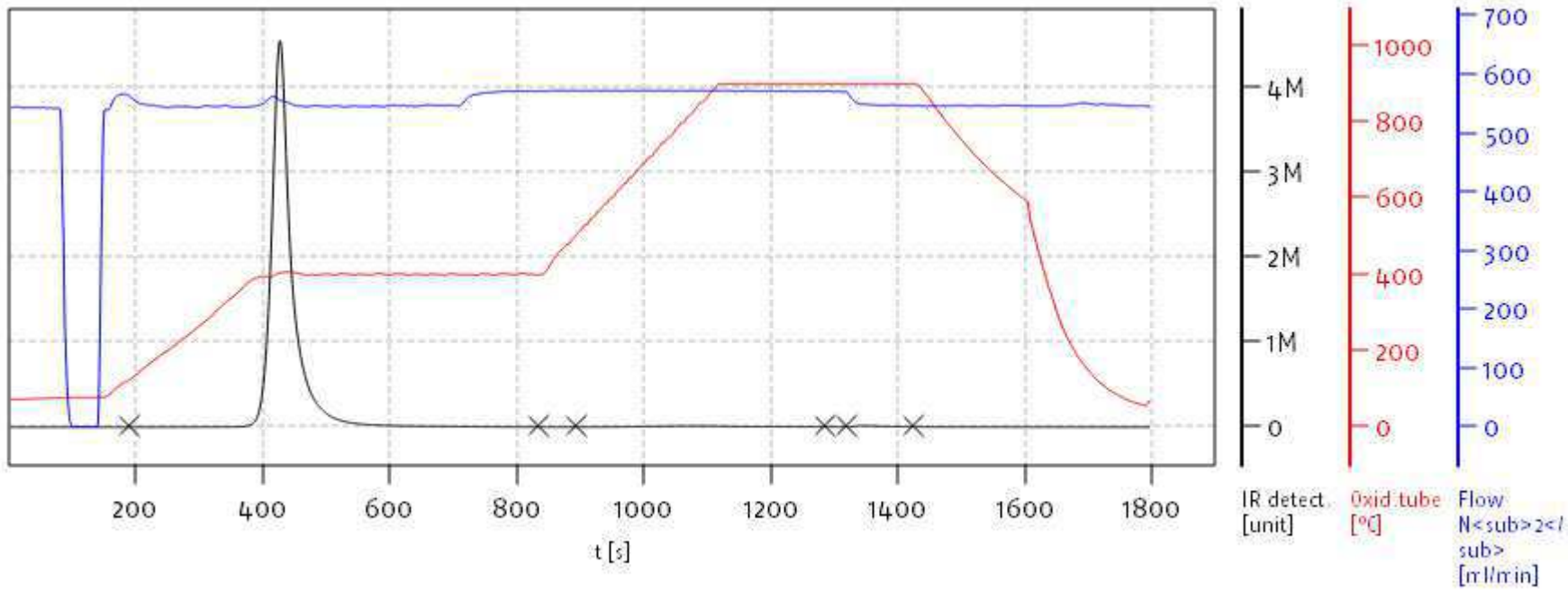
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	BKL0504-BS1	21.30		CARBON	12/25/2022 5:15 PM	bl	44.760	6 323 876	45.268	0.046	32 809	96 493	44.714	0.508	0.9770	1.0000



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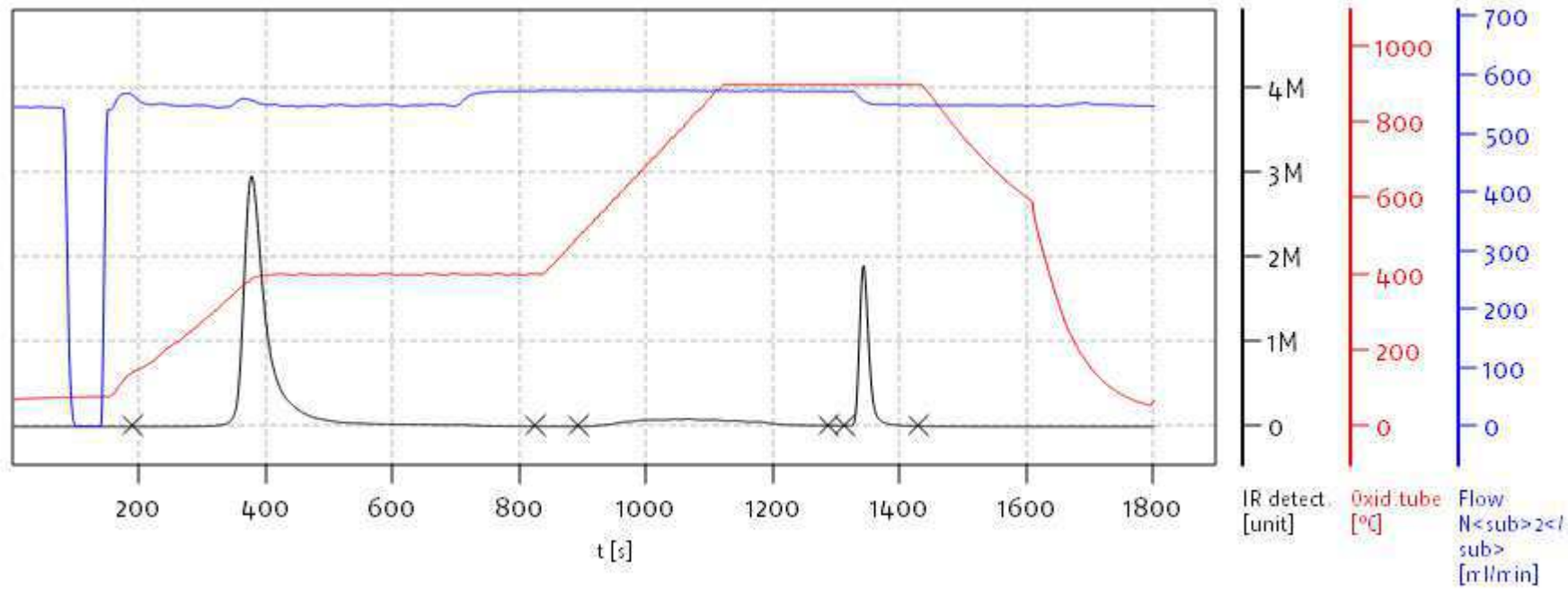
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	BKL0504-SRM1	310.00		CARBON	12/25/2022 5:45 PM	bl	2.984	4 880 875	3.343	0.615	1 258 539	746 243	2.368	0.359	0.9770	1.0000



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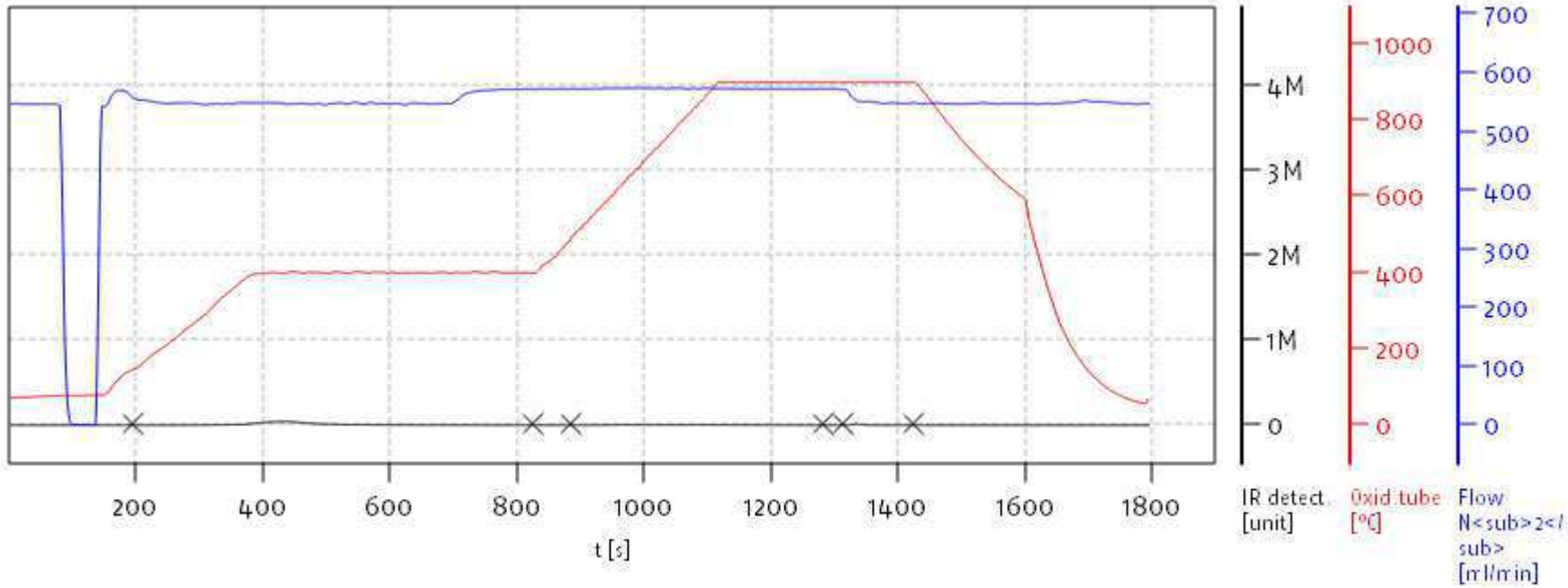
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0246-45	555.70		CARBON	12/25/2022 6:16 PM	bl	0.043	184 359	0.045	0.000	9 983	34 628	0.043	0.002	0.9770	1.0000



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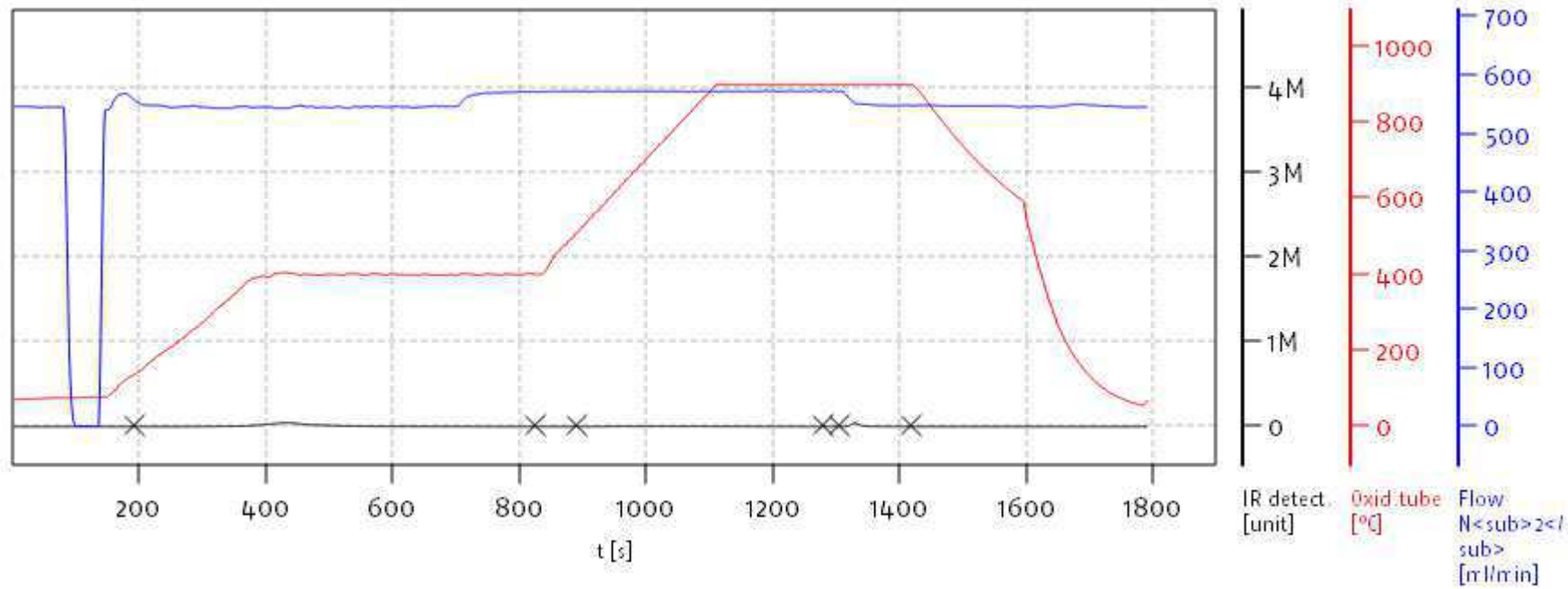
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	BKL0504-DUP1	519.30		CARBON	12/25/2022 6:46 PM	bl	0.045	177 768	0.047	0.000	28 176	34 206	0.044	0.002	0.9770	1.0000



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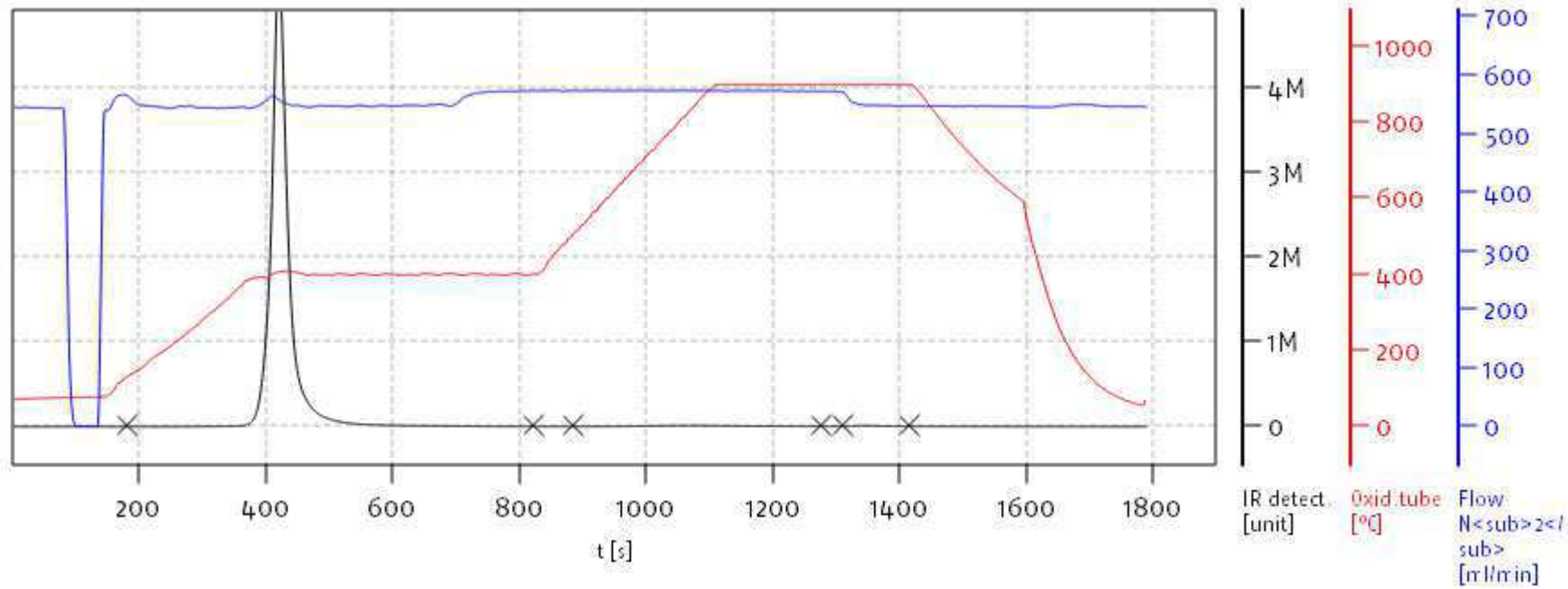
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0311-CCV5	21.10		CARBON	12/25/2022 7:16 PM	bl	45.011	6 306 107	45.491	0.000	25 248	91 985	45.011	0.480	0.9770	1.0000



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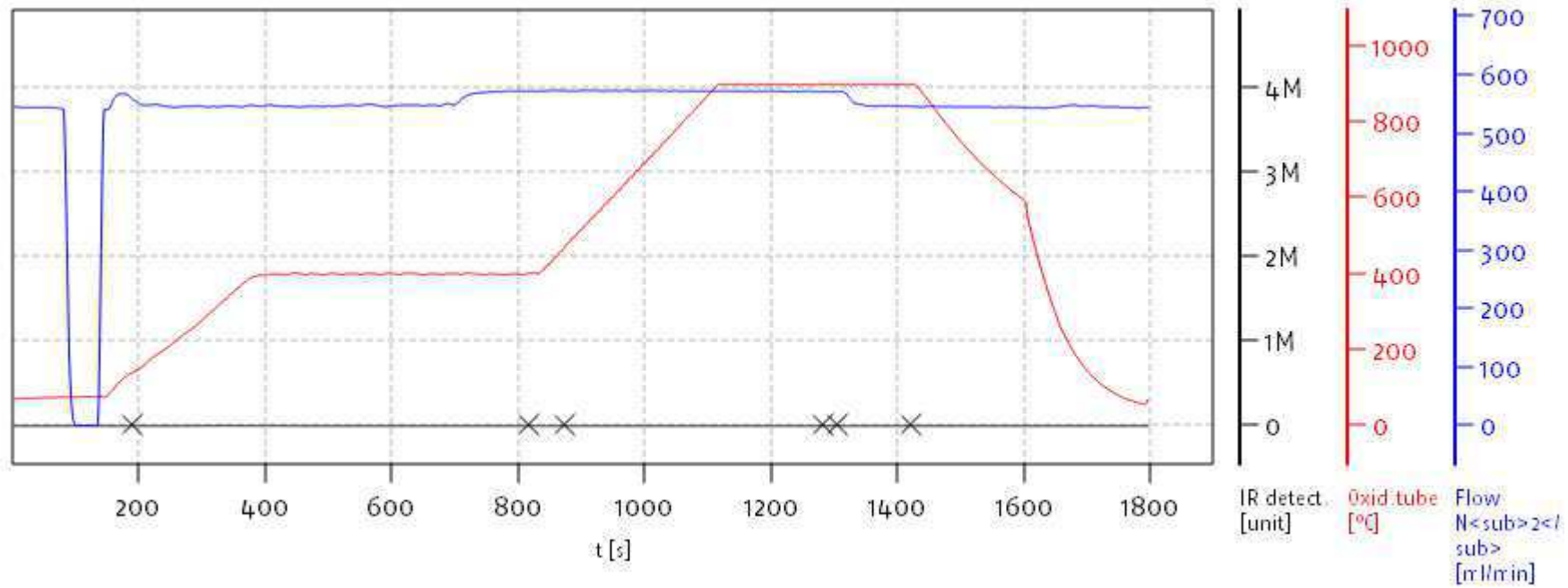
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0311-CCB5	537.60		CARBON	12/25/2022 7:47 PM	bl,C3u,C2u	0.000	12 440	0.000	0.000	484	133	0.000	0.000	0.9770	1.0000



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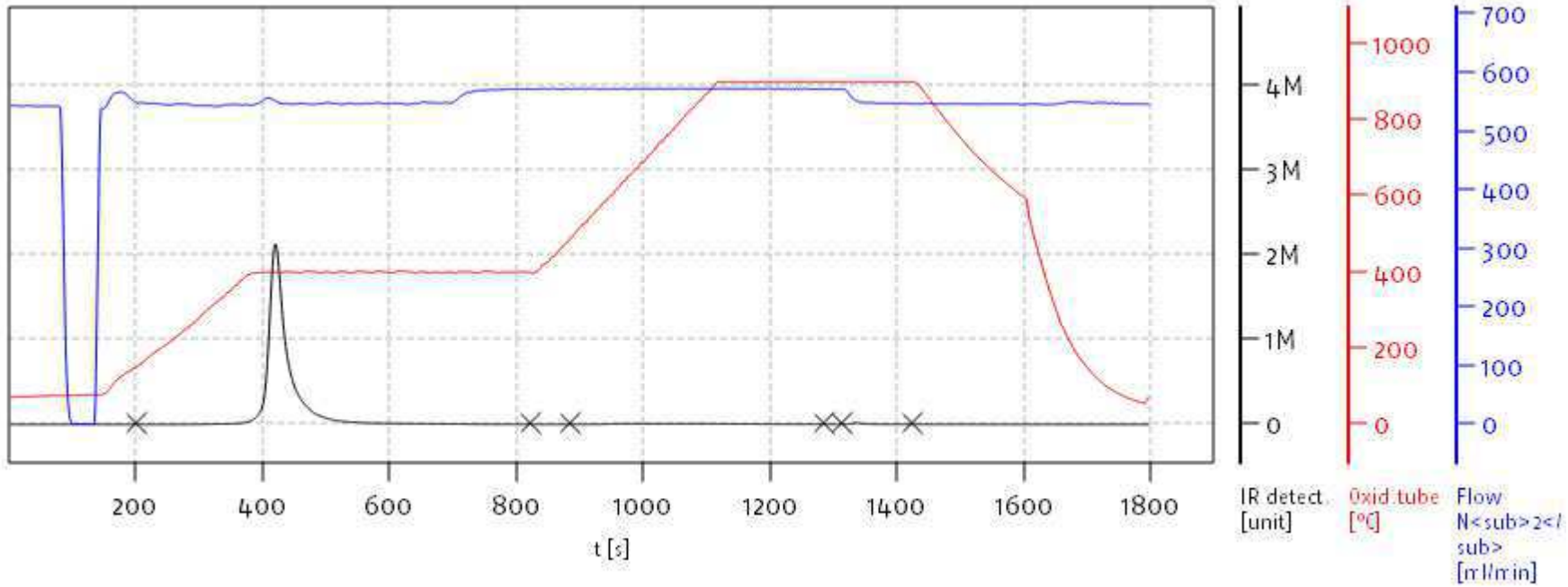
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	BKL0504-MS1	598.80	0.0087	CARBON	12/25/2022 8:17 PM	bl	0.695	2 777 506	0.709	0.000	18 238	83 188	0.695	0.015	0.9770	1.0000



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Access: soliTOC superuser

Date: Mon Dec 26 13:49:33 2022

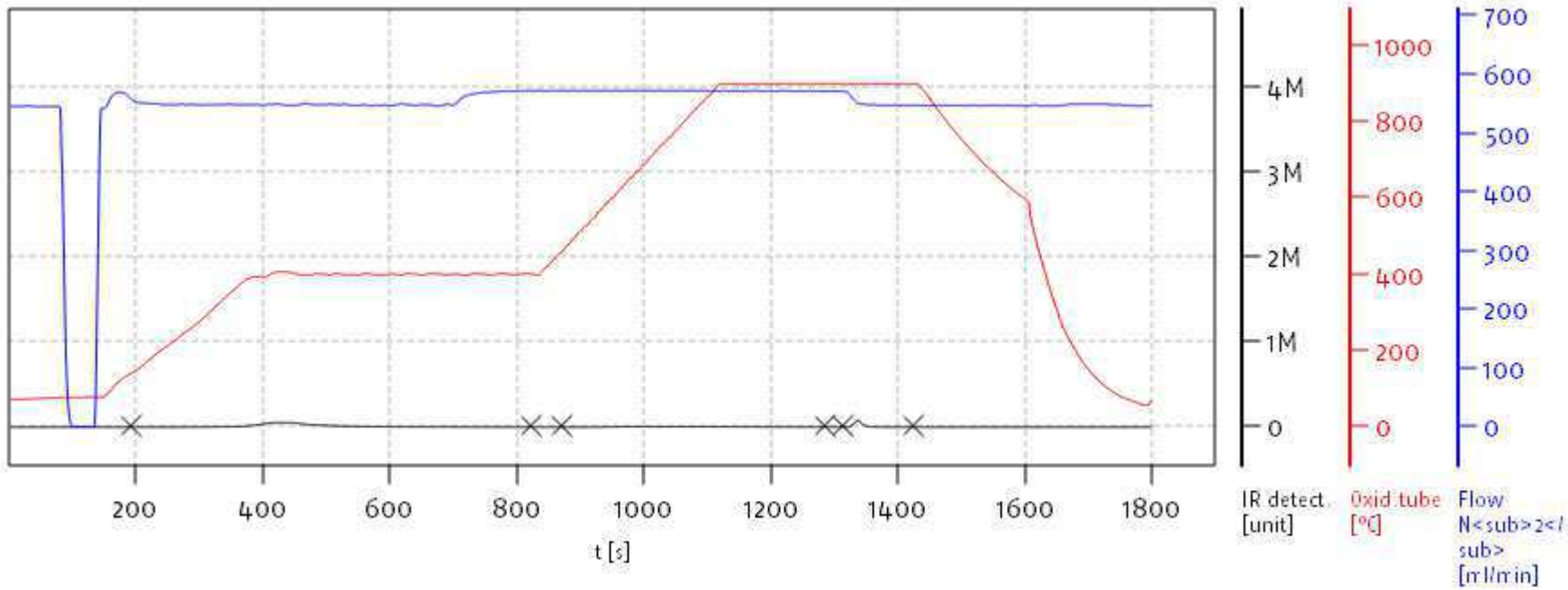
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	22L0246-46	593.00		CARBON	12/25/2022 8:47 PM	bl	0.060	239 640	0.067	0.005	46 767	54 321	0.054	0.007	0.9770	1.0000



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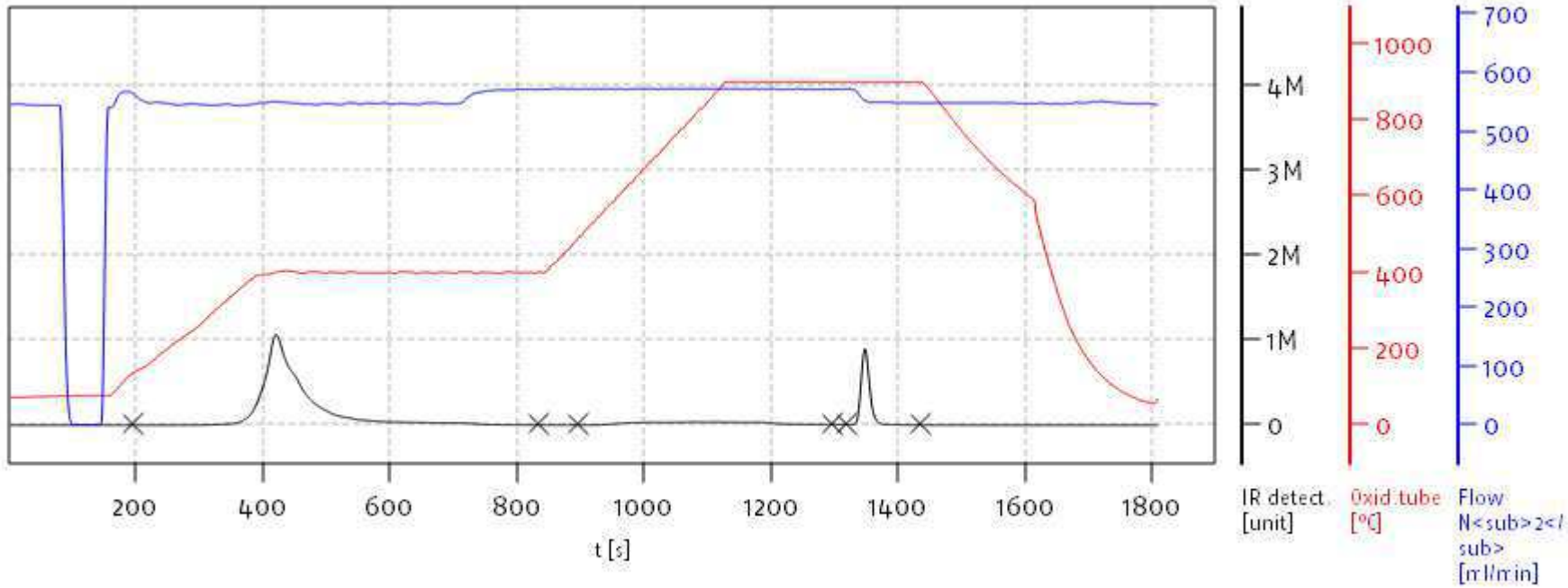
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	22L0246-47	549.40		CARBON	12/25/2022 9:18 PM	bl	0.912	2 818 148	1.000	0.143	534 929	341 527	0.768	0.089	0.9770	1.0000



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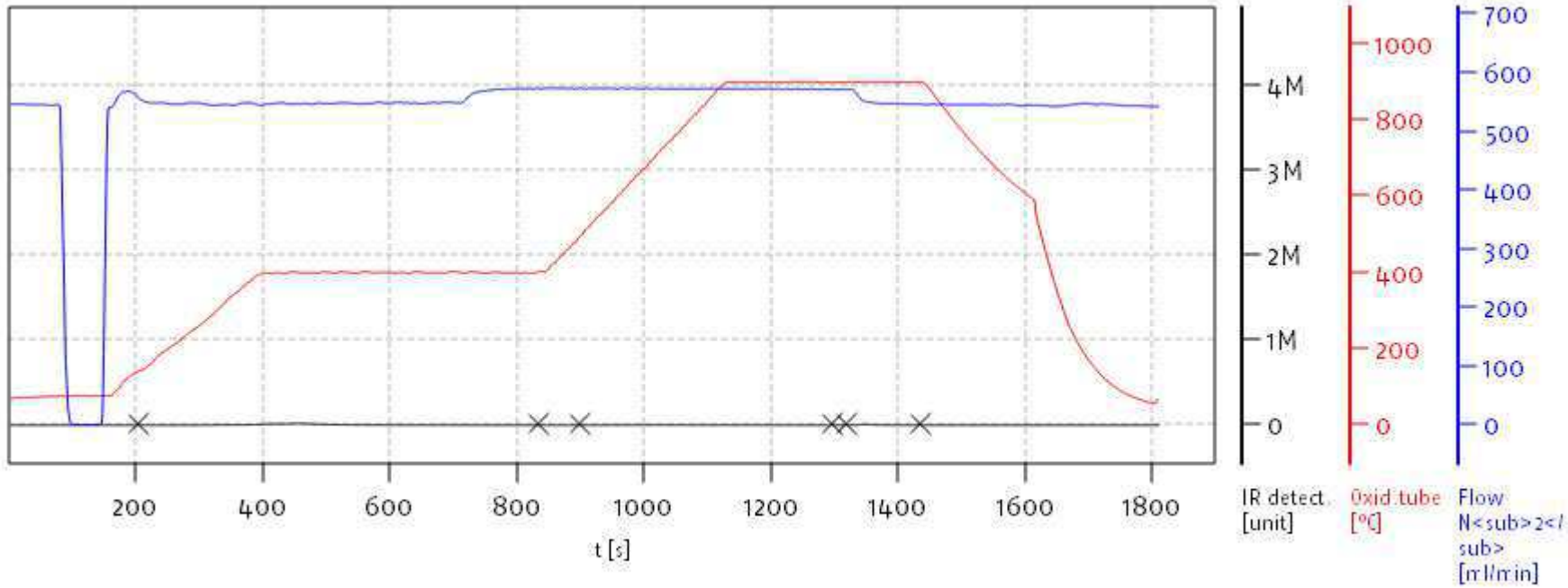
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	22L0246-48	542.20		CARBON	12/25/2022 9:48 PM	bl	0.017	88 635	0.017	0.000	9 118	14 955	0.017	0.000	0.9770	1.0000



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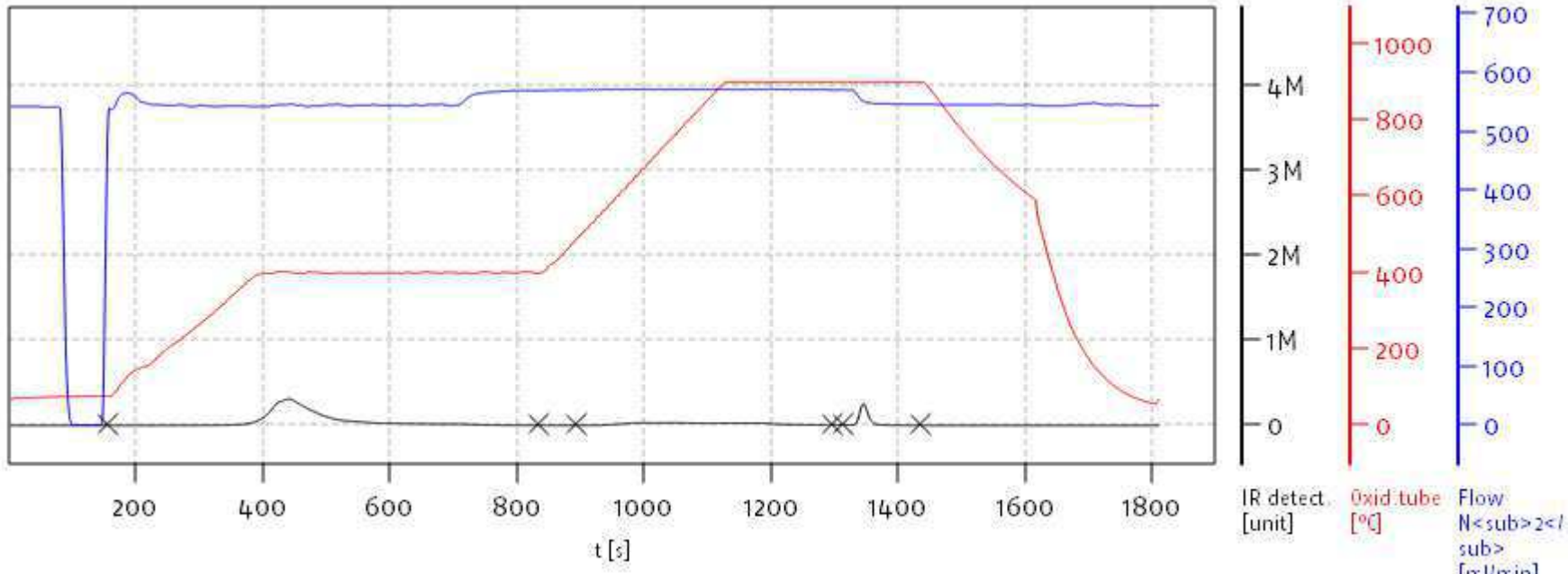
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0307-01	576.50		CARBON	12/25/2022 10:19 PM	bl	0.330	1 147 111	0.401	0.036	158 856	294 431	0.294	0.072	0.9770	1.0000



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Balance: BAL3
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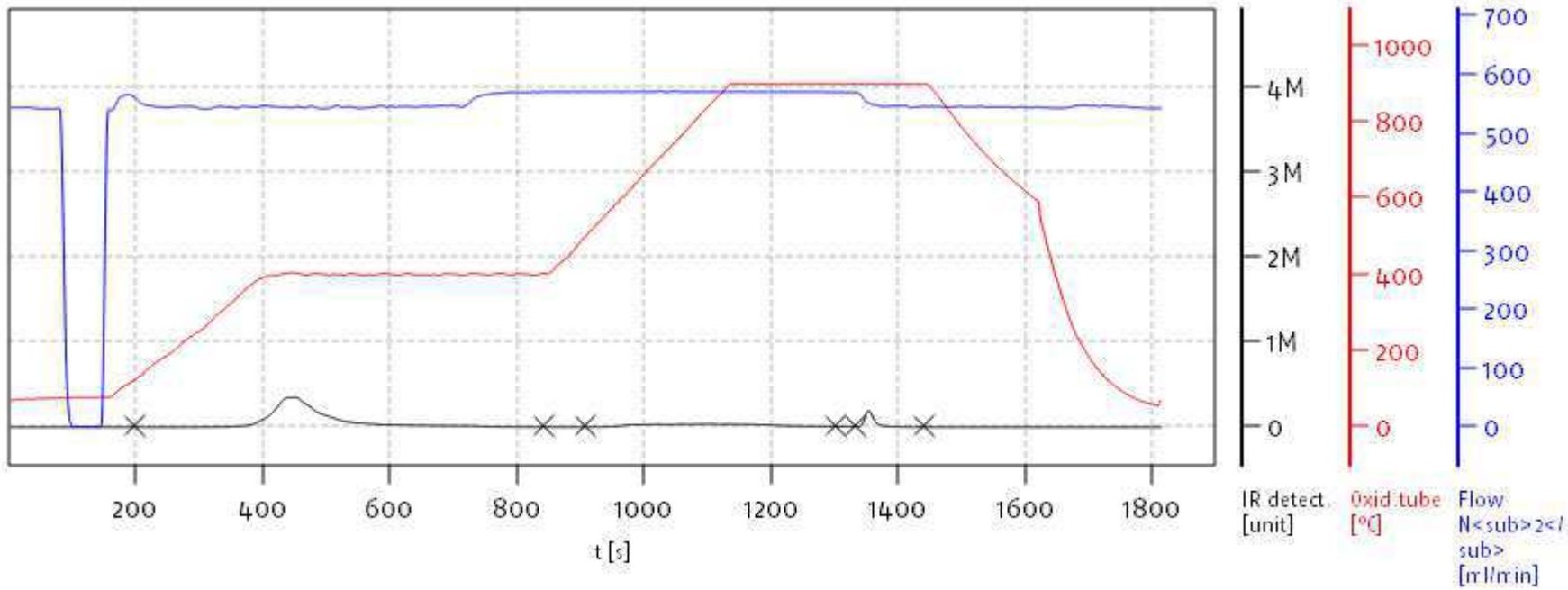
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	22L0307-02	537.30		CARBON	12/25/2022 10:50 PM	bl	0.386	1 292 643	0.472	0.029	127 731	327 871	0.356	0.087	0.9770	1.0000



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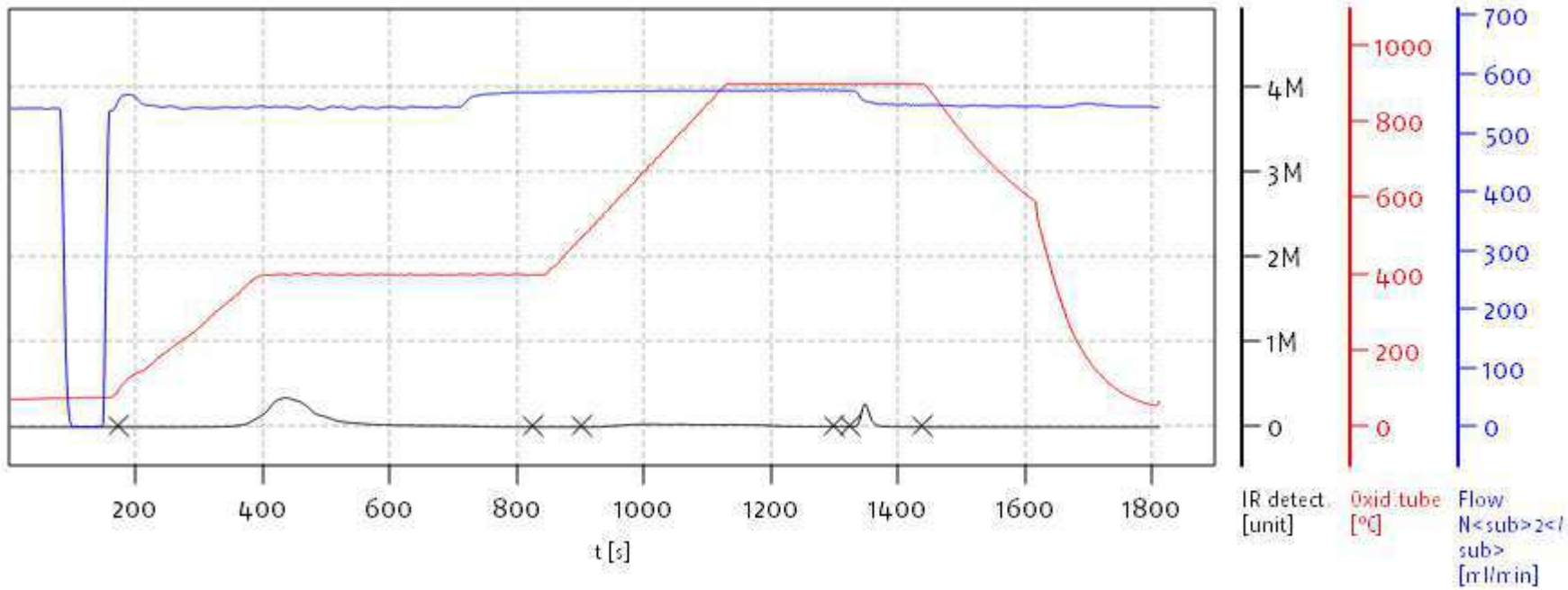
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	22L0307-03	563.50		CARBON	12/25/2022 11:20 PM	bl	0.391	1 337 437	0.464	0.039	168 781	290 897	0.352	0.073	0.9770	1.0000



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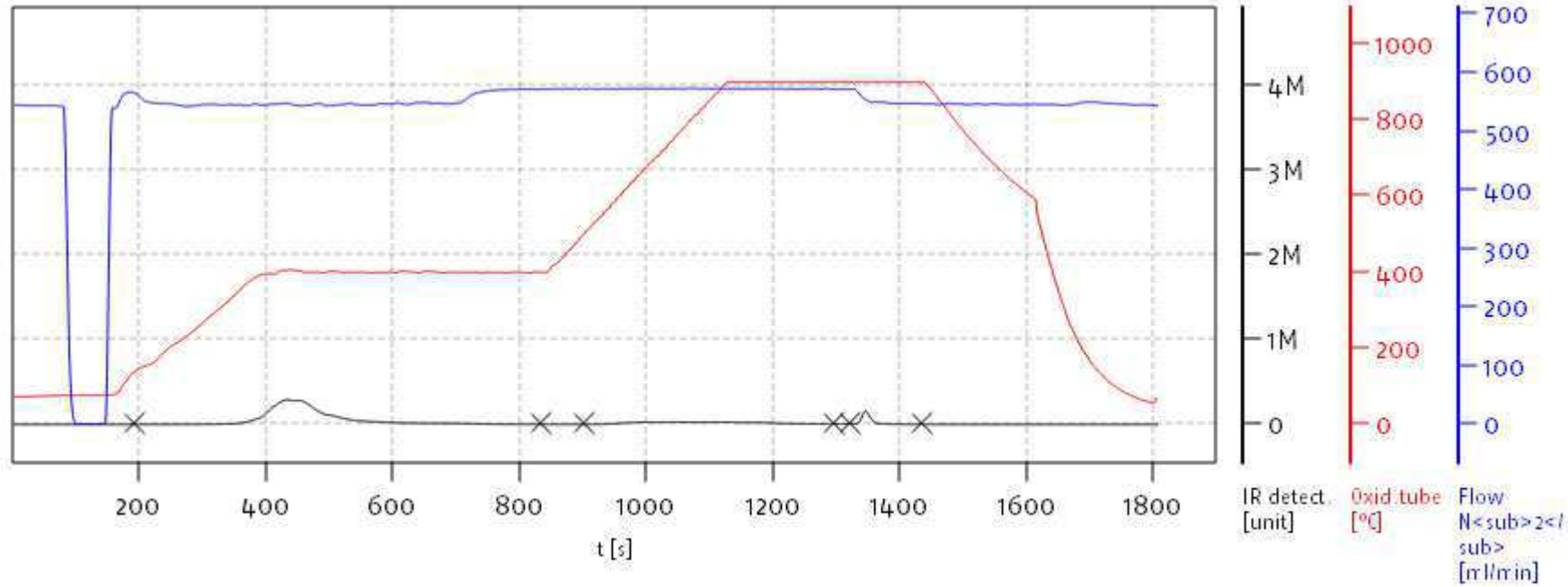
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0307-04	541.50		CARBON	12/25/2022 11:51 PM	bl	0.351	1 203 923	0.419	0.022	102 816	266 997	0.329	0.069	0.9770	1.0000



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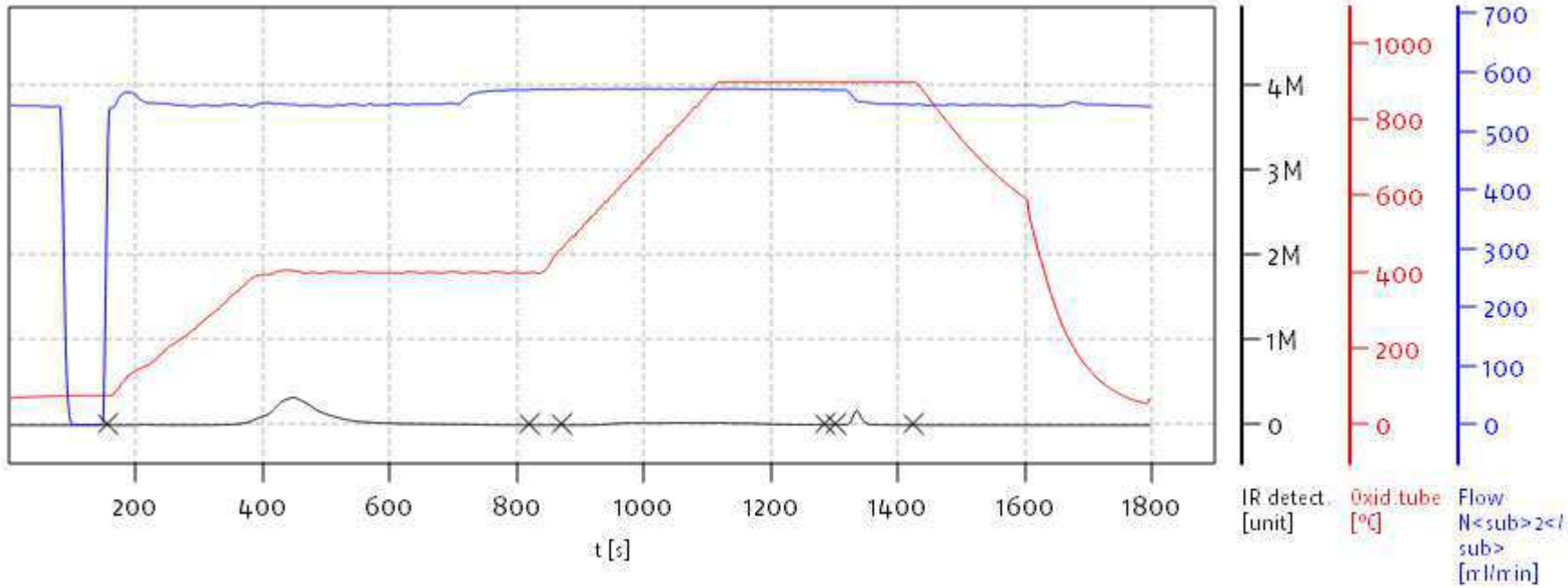
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0307-05	532.70		CARBON	12/26/2022 12:21 AM	bl	0.366	1 230 504	0.430	0.025	111 192	244 878	0.342	0.063	0.9770	1.0000



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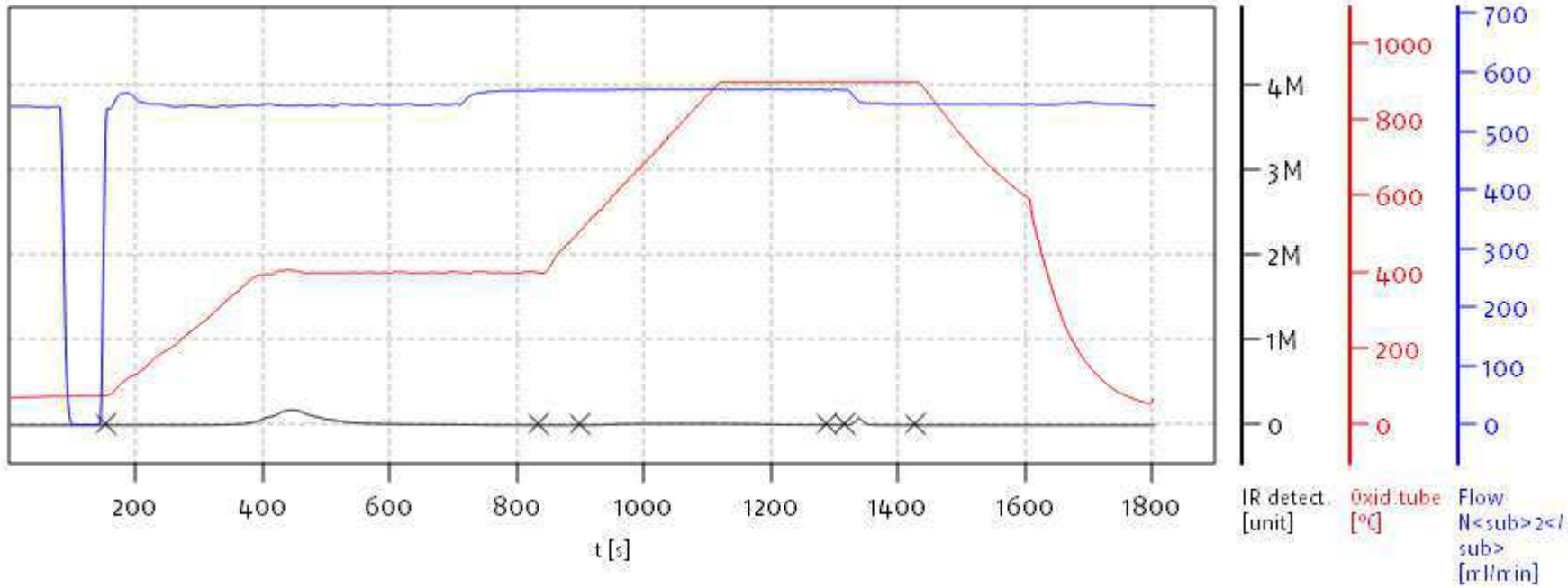
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0307-06	515.80		CARBON	12/26/2022 12:52 AM	bl	0.208	711 021	0.249	0.007	50 514	161 914	0.201	0.041	0.9770	1.0000



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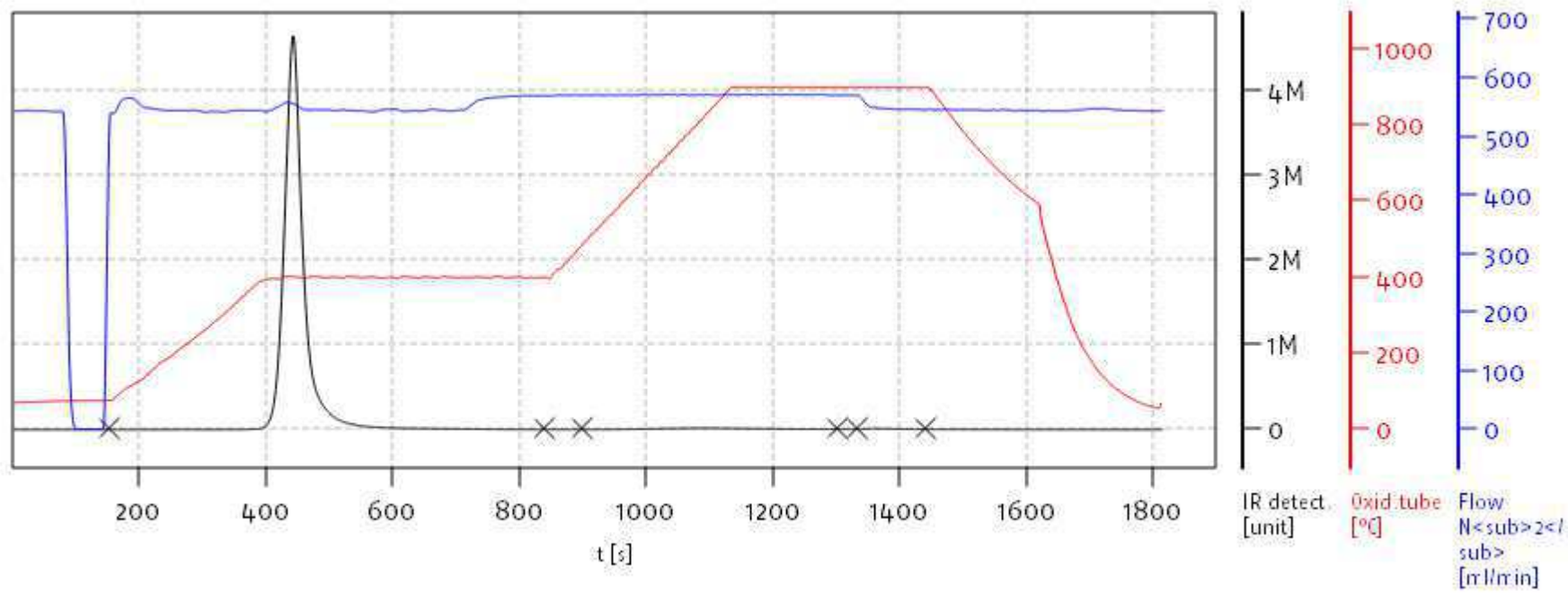
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0311-CCV6	20.30		CARBON	12/26/2022 1:22 AM	bl	45.224	6 093 741	46.014	0.021	29 335	130 185	45.202	0.790	0.9770	1.0000



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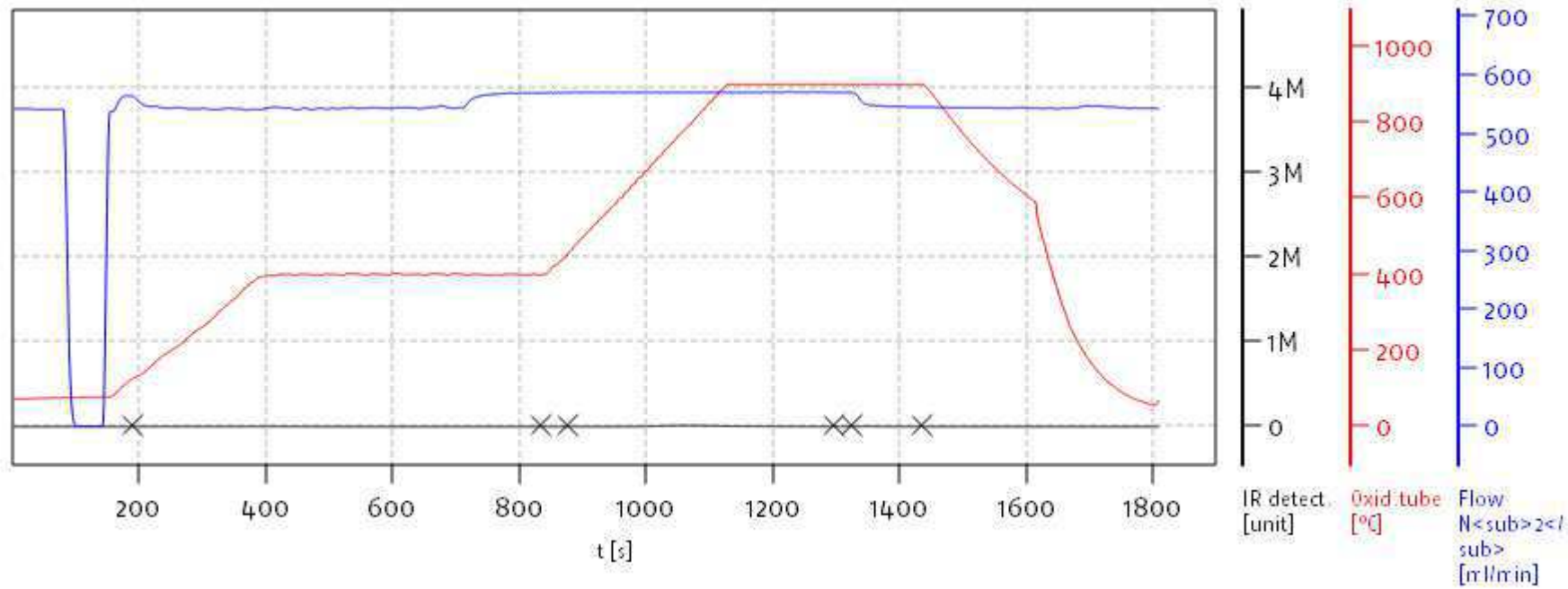
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0311-CCB6	505.50		CARBON	12/26/2022 1:53 AM	bl	0.000	12 153	0.012	0.000	5 648	65 745	0.000	0.012	0.9770	1.0000



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Soli TOC Cube, Carbon
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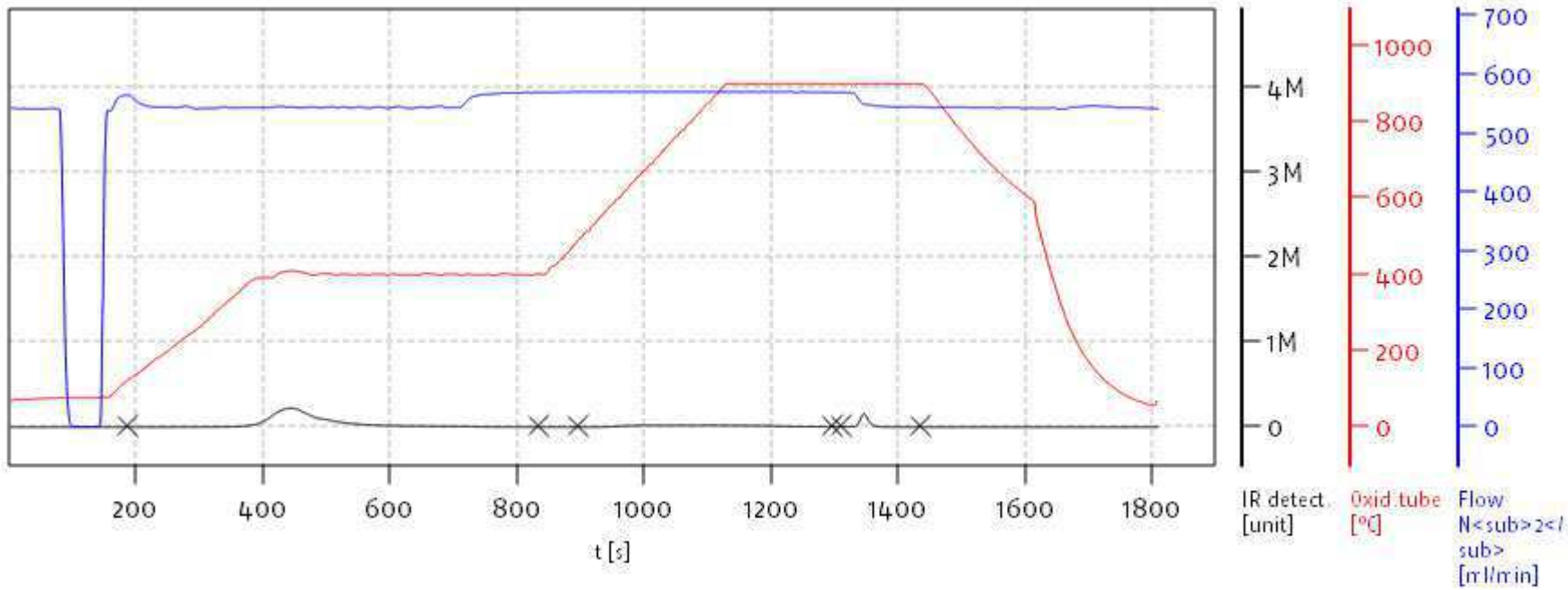
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	22L0307-07	588.70		CARBON	12/26/2022 2:23 AM	bl	0.228	844 396	0.273	0.018	94 463	198 126	0.210	0.045	0.9770	1.0000



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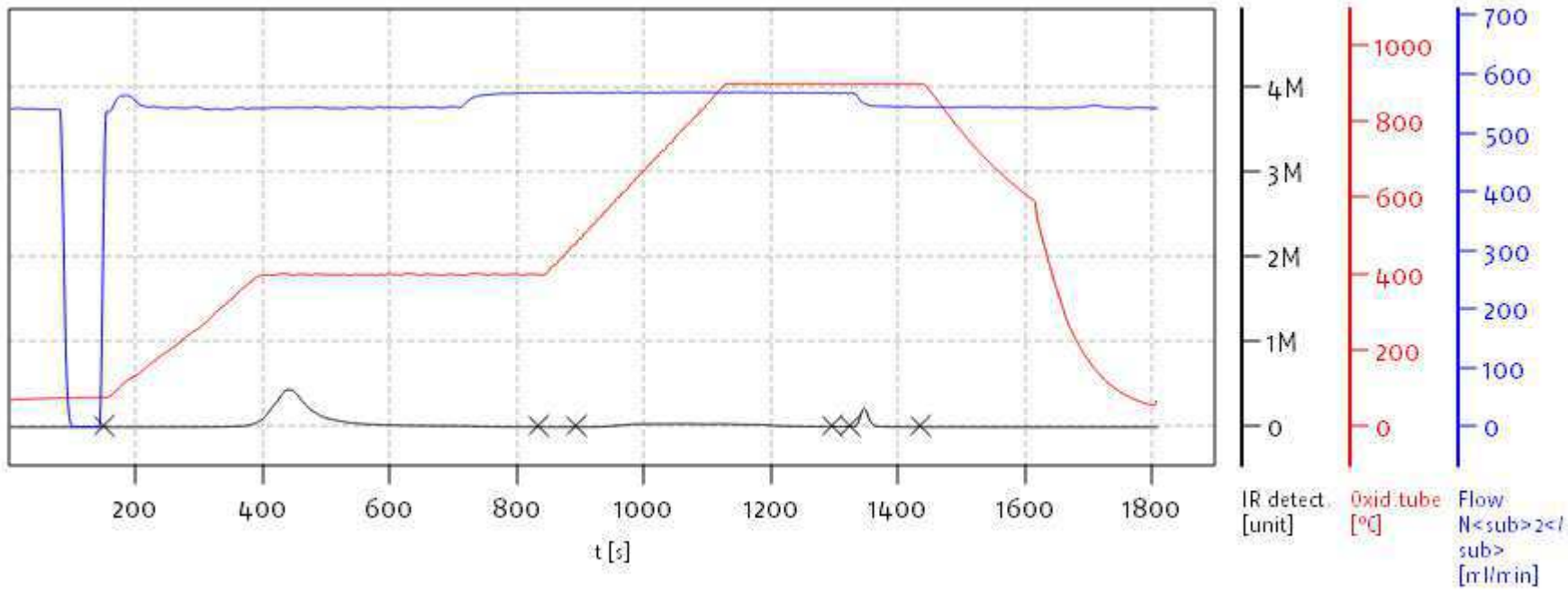
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	22L0307-08	511.80		CARBON	12/26/2022 2:54 AM	bl	0.427	1 361 946	0.524	0.032	132 962	349 315	0.395	0.098	0.9770	1.0000



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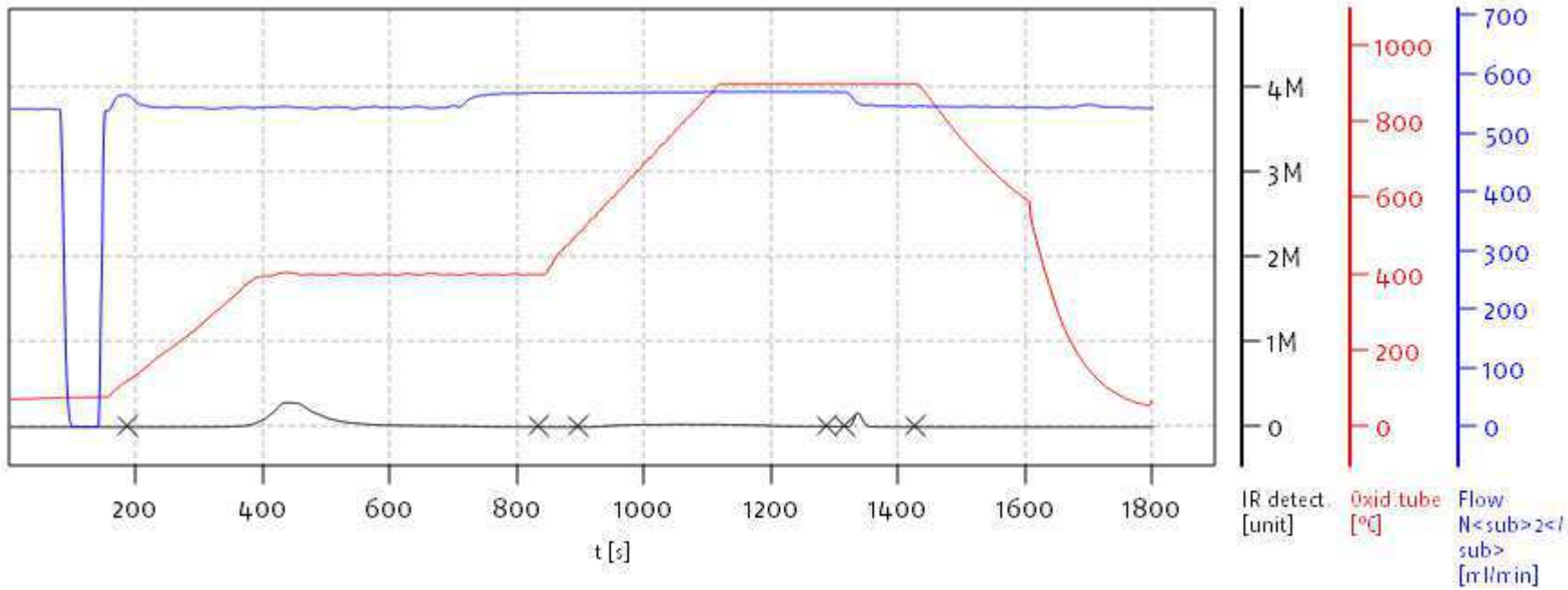
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	22L0307-09	542.10		CARBON	12/26/2022 3:24 AM	bl	0.323	1 106 537	0.399	0.022	101 970	292 829	0.301	0.076	0.9770	1.0000



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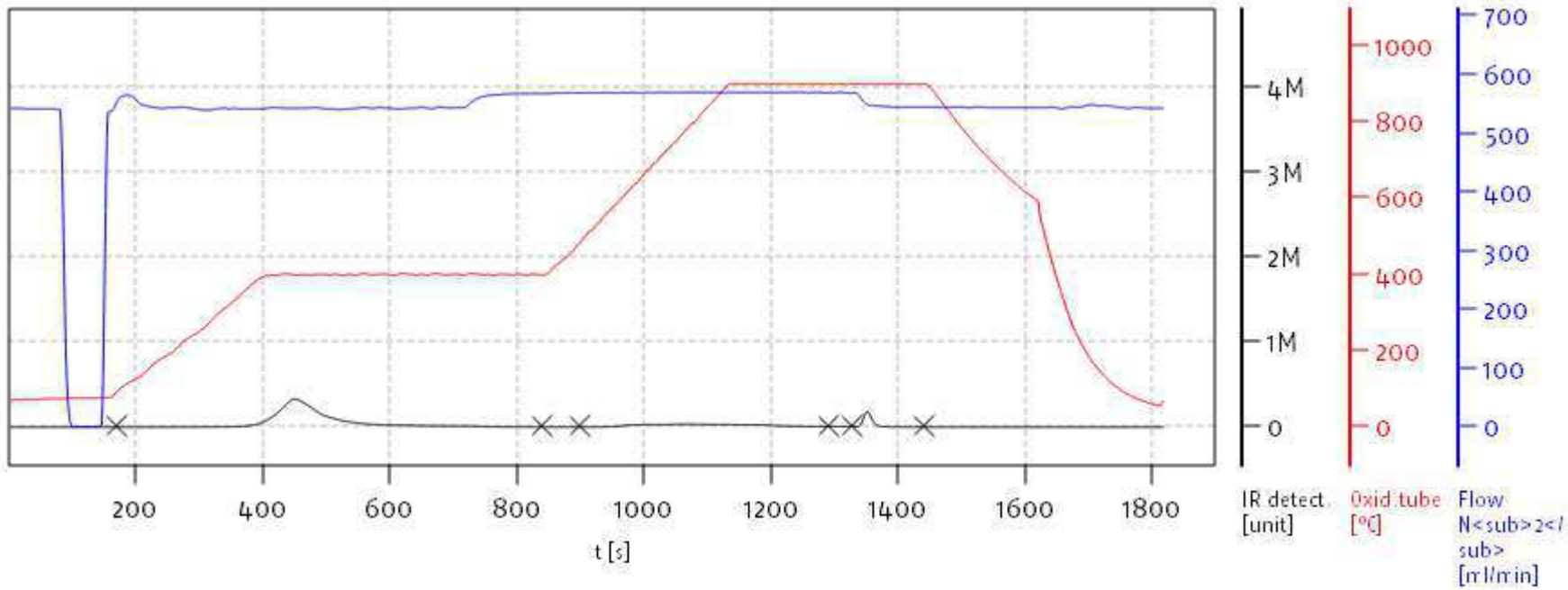
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0307-10	552.00		CARBON	12/26/2022 3:55 AM	bl	0.330	1 145 691	0.406	0.024	111 040	296 499	0.307	0.076	0.9770	1.0000



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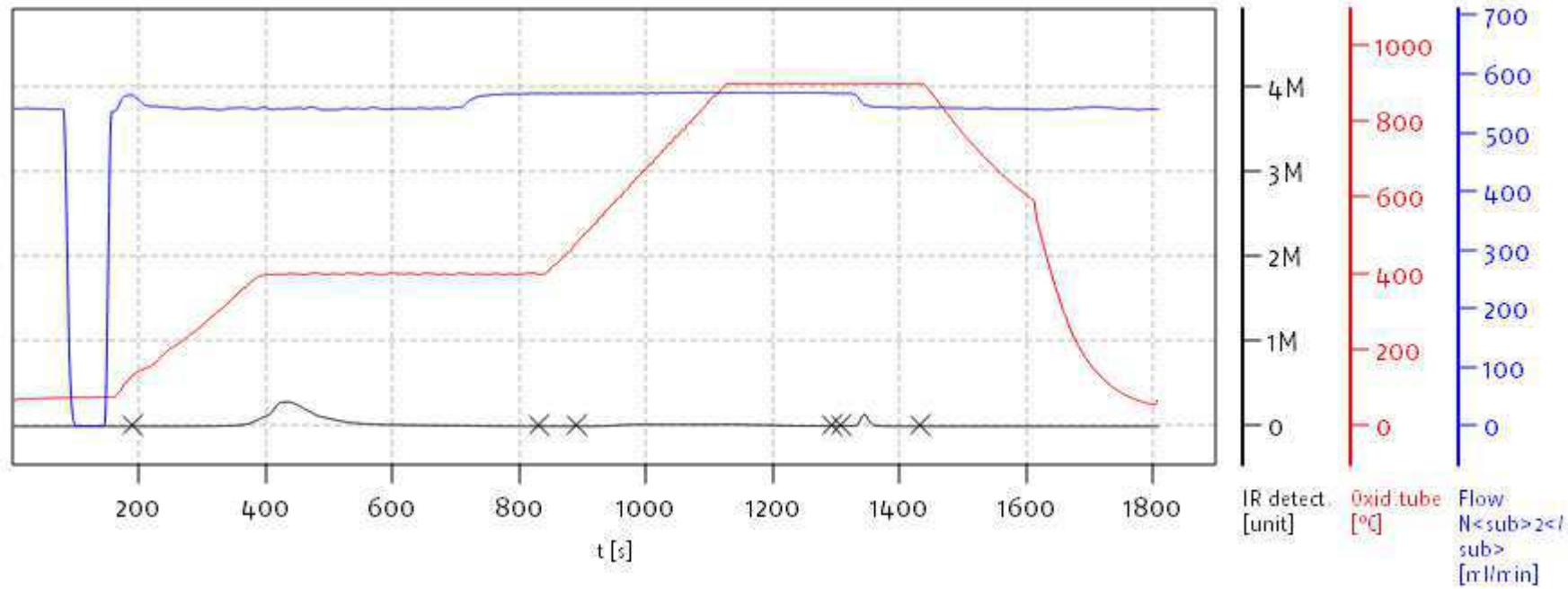
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22L0307-11	564.50		CARBON	12/26/2022 4:25 AM	bl	0.295	1 066 474	0.347	0.016	85 891	216 004	0.279	0.052	0.9770	1.0000



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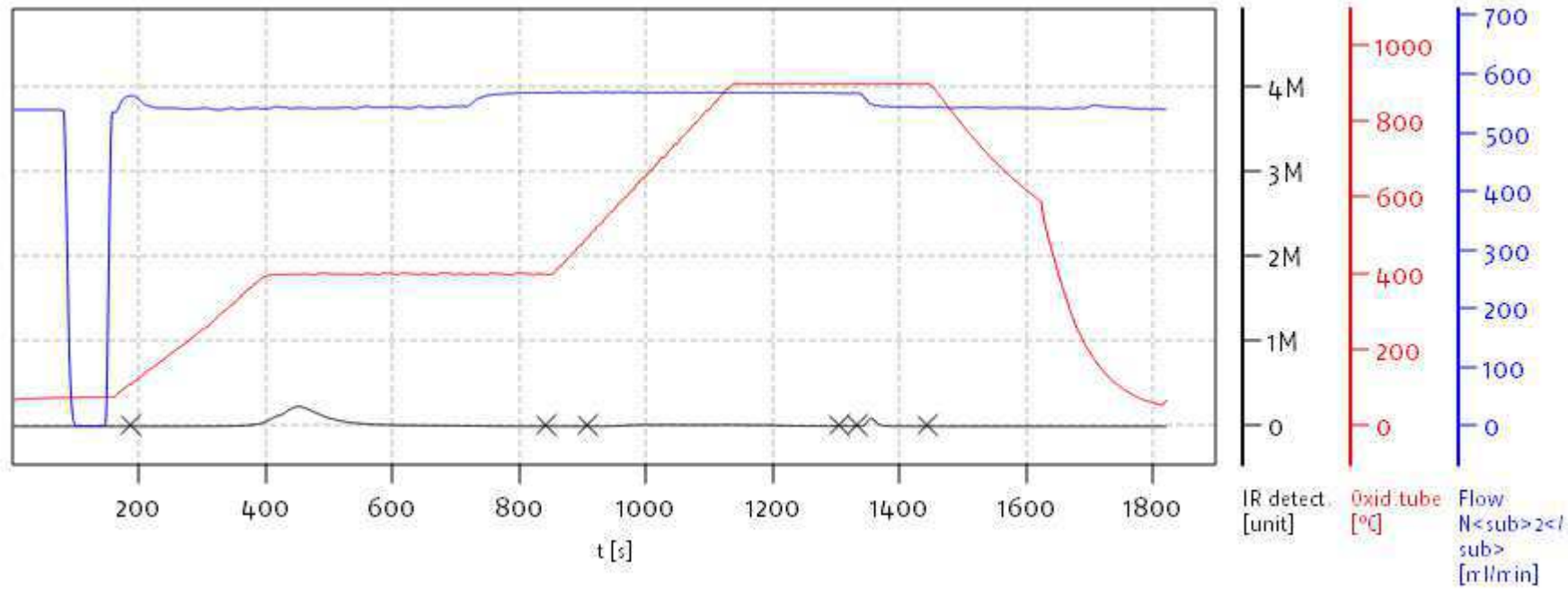
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22L0307-12	512.80		CARBON	12/26/2022 4:56 AM	bl	0.255	855 686	0.299	0.011	61 639	172 470	0.245	0.044	0.9770	1.0000



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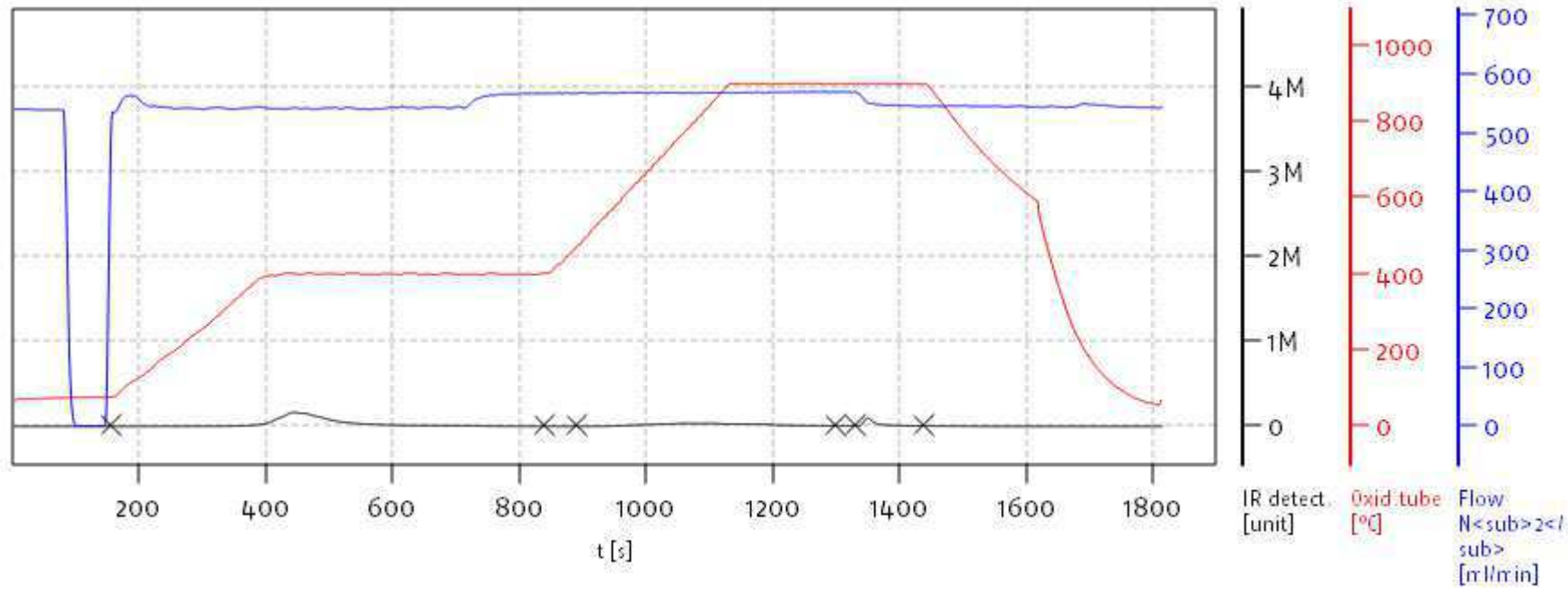
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22L0307-13	519.40		CARBON	12/26/2022 5:27 AM	bl	0.207	666 924	0.281	0.020	93 738	277 726	0.186	0.075	0.9770	1.0000



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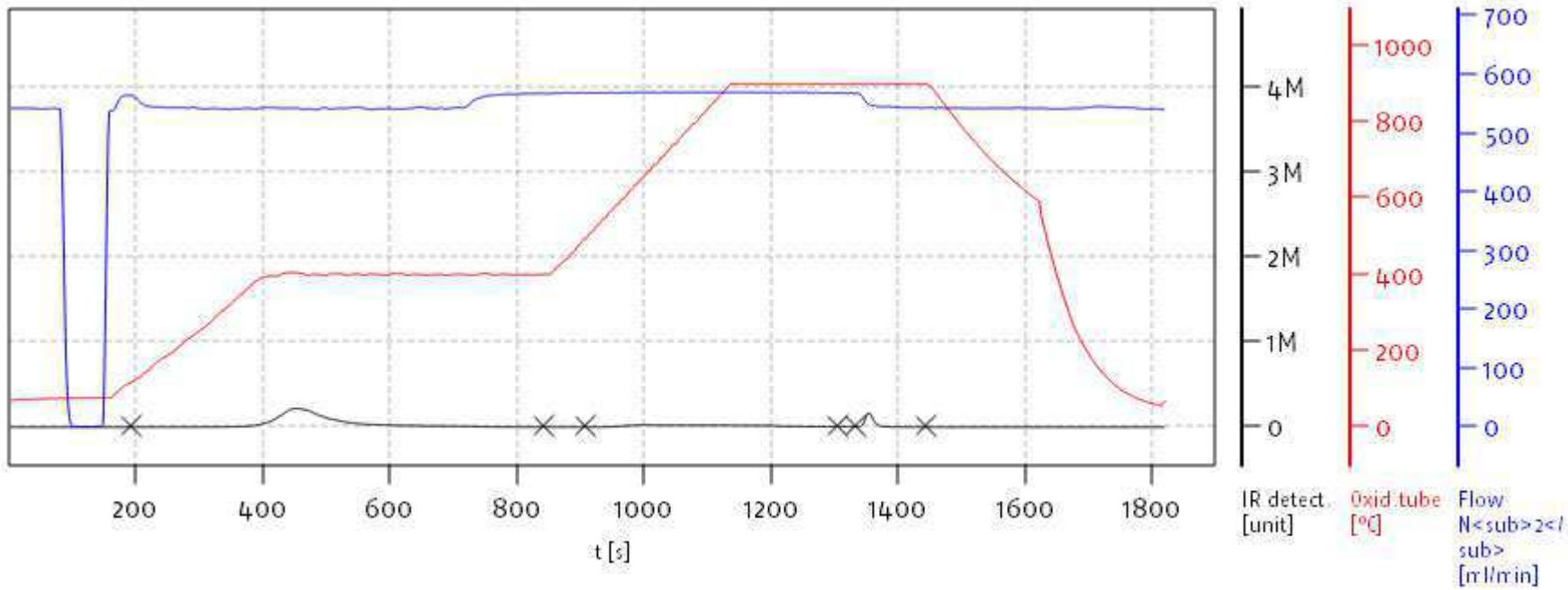
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0307-14	502.00		CARBON	12/26/2022 5:58 AM	bl	0.277	869 294	0.336	0.023	101 206	218 870	0.254	0.059	0.9770	1.0000



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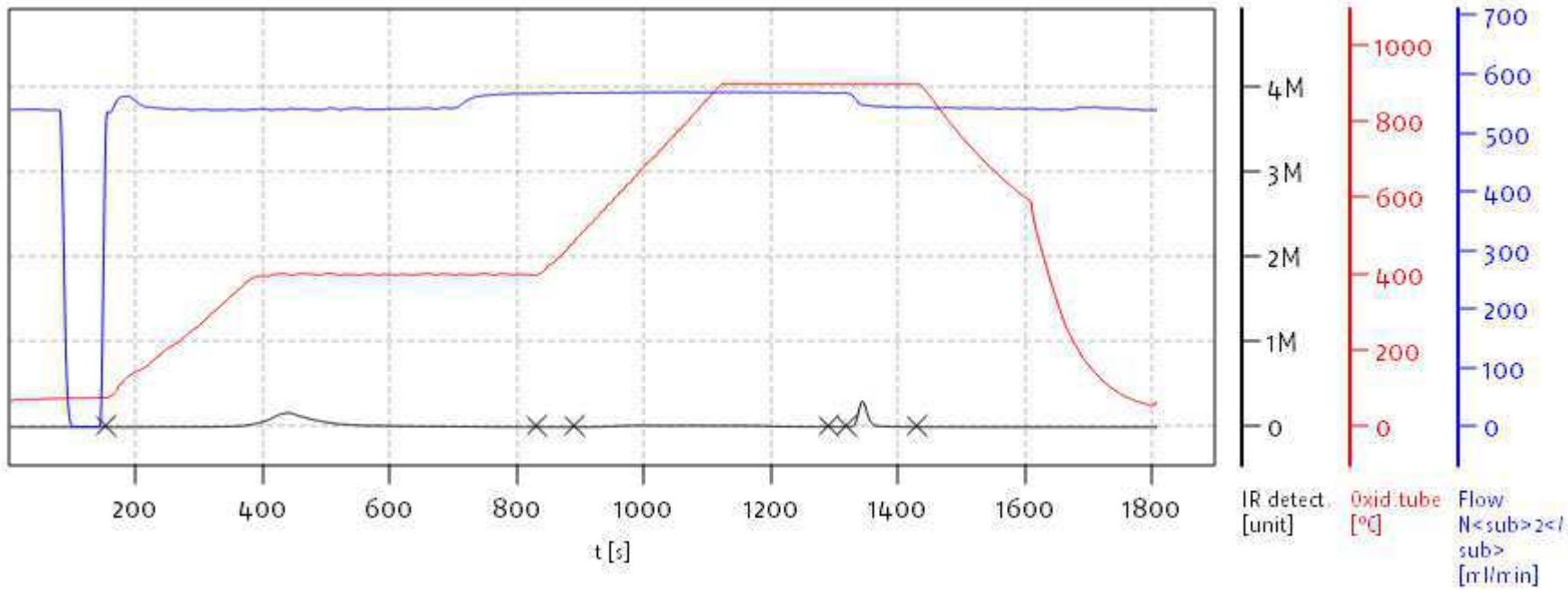
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	22L0307-15	513.90		CARBON	12/26/2022 6:28 AM	bl	0.231	636 218	0.276	0.052	198 411	174 778	0.179	0.045	0.9770	1.0000



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Access: soliTOC superuser

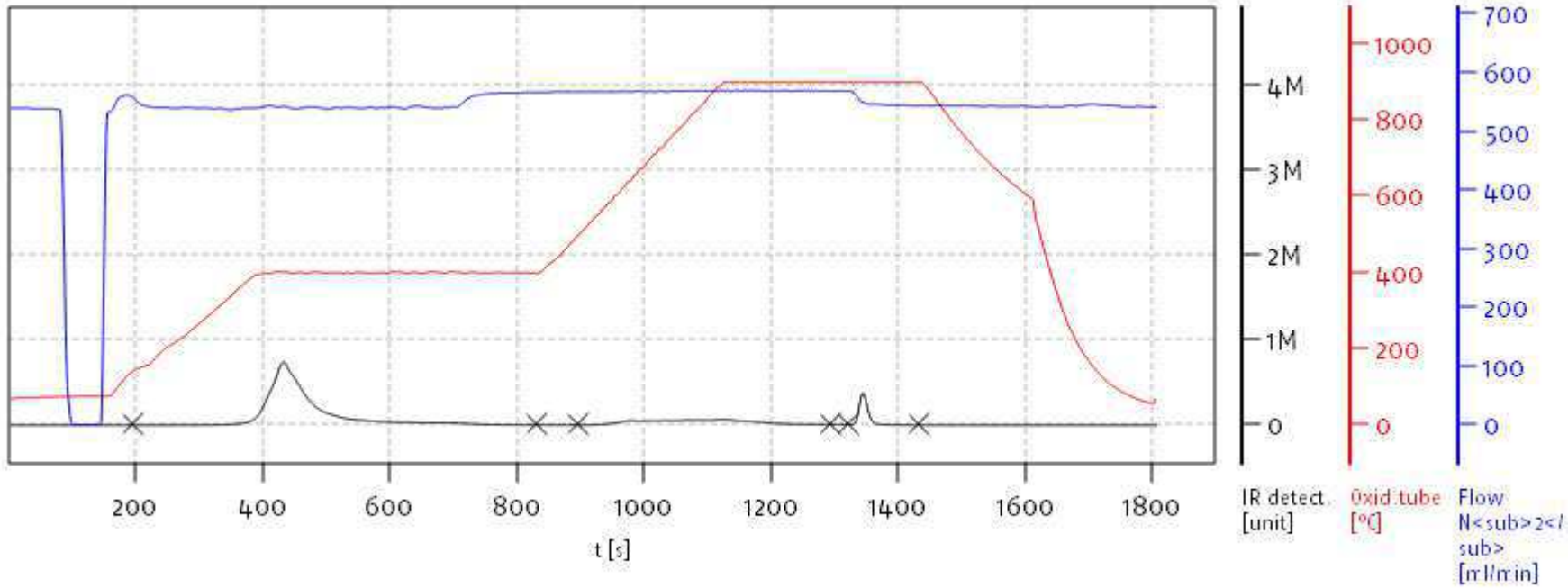
Date: Mon Dec 26 13:49:33 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	22L0307-16	514.00		CARBON	12/26/2022 6:59 AM	bl	0.677	2 117 513	0.829	0.061	229 952	533 207	0.615	0.153	0.9770	1.0000



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Date: Mon Dec 26 13:49:33 2022

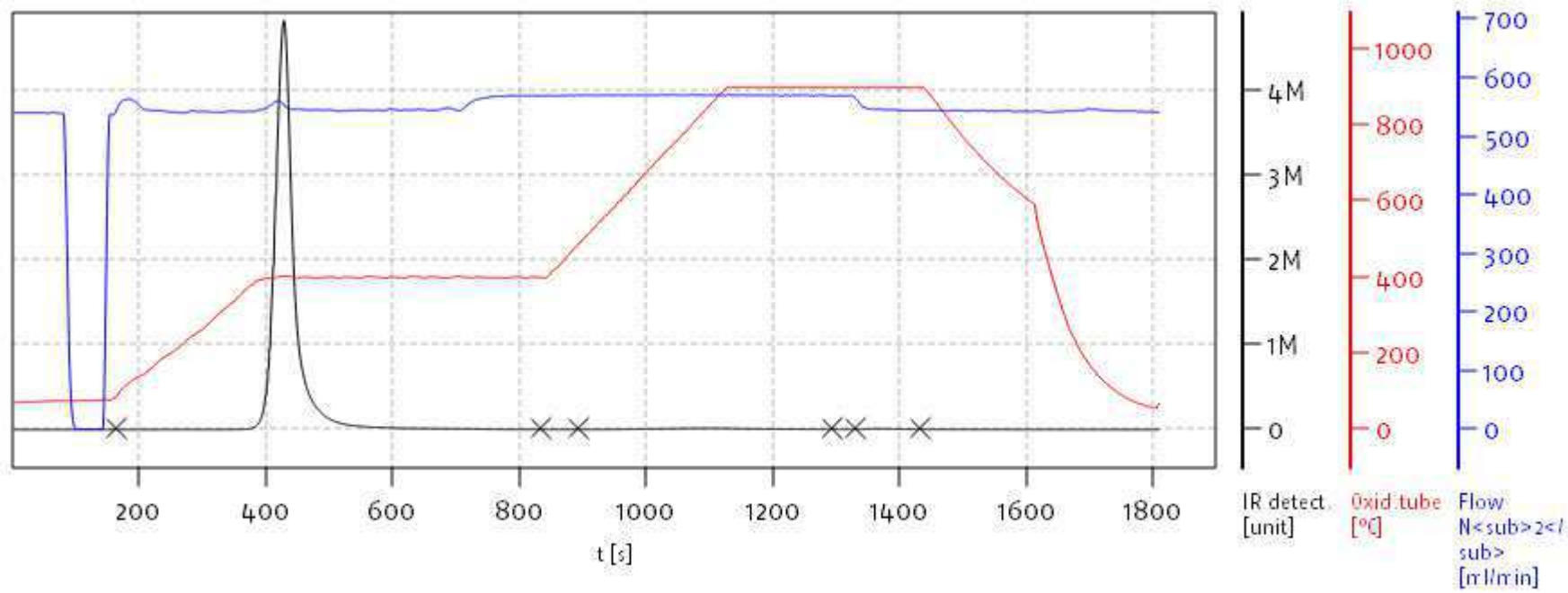
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0311-CCV7	21.20		CARBON	12/26/2022 7:29 AM	bl	44.553	6 271 712	45.201	0.000	25 044	115 235	44.553	0.648	0.9770	1.0000



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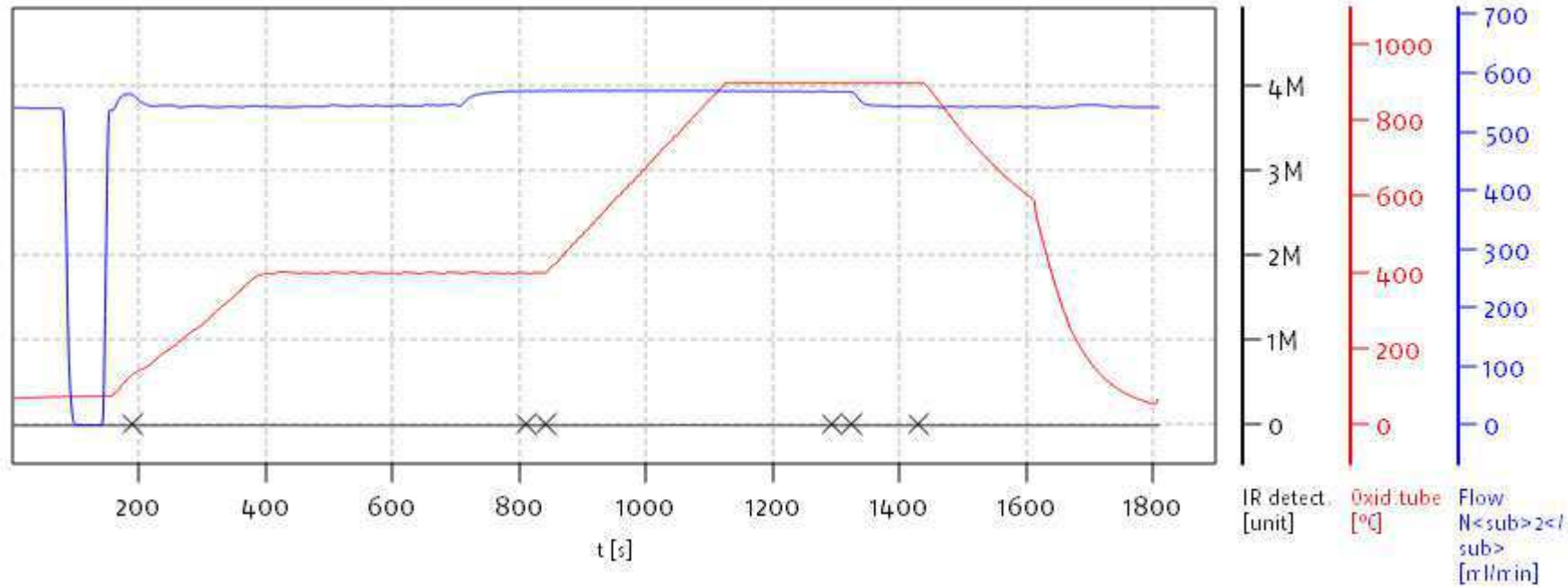
Date: Mon Dec 26 13:49:33 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 122422DOE from: 12/26/2022 1:48 PM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0311-CCB7	519.10		CARBON	12/26/2022 8:00 AM	bl,C2u	0.000	10 201	0.000	0.000	1 424	14 625	0.000	0.000	0.9770	1.0000



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EXCELLENCE IN ELEMENTS

Document: 122422DOE from: 12/26/2022 1:48 PM

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Sequence: SKL0336
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Check	SKL0336-CCVE	CubeData_01032023@1005-583	NA	01/01/23 05:30
Calibration Blank	SKL0336-CCBE	CubeData_01032023@1005-589	NA	01/01/23 06:00
Calibration Check	SKL0336-CCVF	CubeData_01032023@1005-061	NA	01/01/23 11:35
Calibration Blank	SKL0336-CCBF	CubeData_01032023@1005-071	NA	01/01/23 12:05
LDW22-SC778E	BKL0502-MS2	CubeData_01032023@1005-122	Solid	01/01/23 14:37
Calibration Check	SKL0336-CCVG	CubeData_01032023@1005-136	NA	01/01/23 15:07
Calibration Blank	SKL0336-CCBG	CubeData_01032023@1005-147	NA	01/01/23 15:38
Initial Cal Check	SKL0336-ICV1	CubeData_01032023@1005-040	NA	12/28/22 15:57
Initial Cal Blank	SKL0336-ICB1	CubeData_01032023@1005-047	NA	12/28/22 16:28
Calibration Check	SKL0336-CCV1	CubeData_01032023@1005-160	NA	12/28/22 22:02
Calibration Blank	SKL0336-CCB1	CubeData_01032023@1005-166	NA	12/28/22 22:33
Calibration Check	SKL0336-CCV2	CubeData_01032023@1005-237	NA	12/29/22 04:09
Calibration Blank	SKL0336-CCB2	CubeData_01032023@1005-244	NA	12/29/22 04:39
Calibration Check	SKL0336-CCV3	CubeData_01032023@1005-314	NA	12/29/22 10:16
Calibration Blank	SKL0336-CCB3	CubeData_01032023@1005-321	NA	12/29/22 10:47
Calibration Check	SKL0336-CCV4	CubeData_01032023@1005-386	NA	12/29/22 16:24
Calibration Blank	SKL0336-CCB4	CubeData_01032023@1005-392	NA	12/29/22 16:54
Calibration Check	SKL0336-CCV5	CubeData_01032023@1005-458	NA	12/29/22 22:30
Calibration Blank	SKL0336-CCB5	CubeData_01032023@1005-466	NA	12/29/22 23:01
Calibration Check	SKL0336-CCV6	CubeData_01032023@1005-536	NA	12/30/22 04:38
Calibration Blank	SKL0336-CCB6	CubeData_01032023@1005-542	NA	12/30/22 05:09
LDW22-SC779J	BKL0503-DUP2	CubeData_01032023@1005-604	Solid	12/30/22 09:44
LDW22-SC779J	BKL0503-MS2	CubeData_01032023@1005-609	Solid	12/30/22 10:15
Calibration Check	SKL0336-CCV7	CubeData_01032023@1005-615	NA	12/30/22 10:45
Calibration Blank	SKL0336-CCB7	CubeData_01032023@1005-619	NA	12/30/22 11:16
LDW22-SC777G	22L0246-32RE1	CubeData_01032023@1005-008	Solid	12/30/22 11:47
Calibration Check	SKL0336-CCV8	CubeData_01032023@1005-111	NA	12/30/22 16:52
Calibration Blank	SKL0336-CCB8	CubeData_01032023@1005-124	NA	12/30/22 17:23
Calibration Check	SKL0336-CCV9	CubeData_01032023@1005-205	NA	12/30/22 22:58

ANALYSIS BATCH (SEQUENCE) SUMMARY

EPA 9060A m

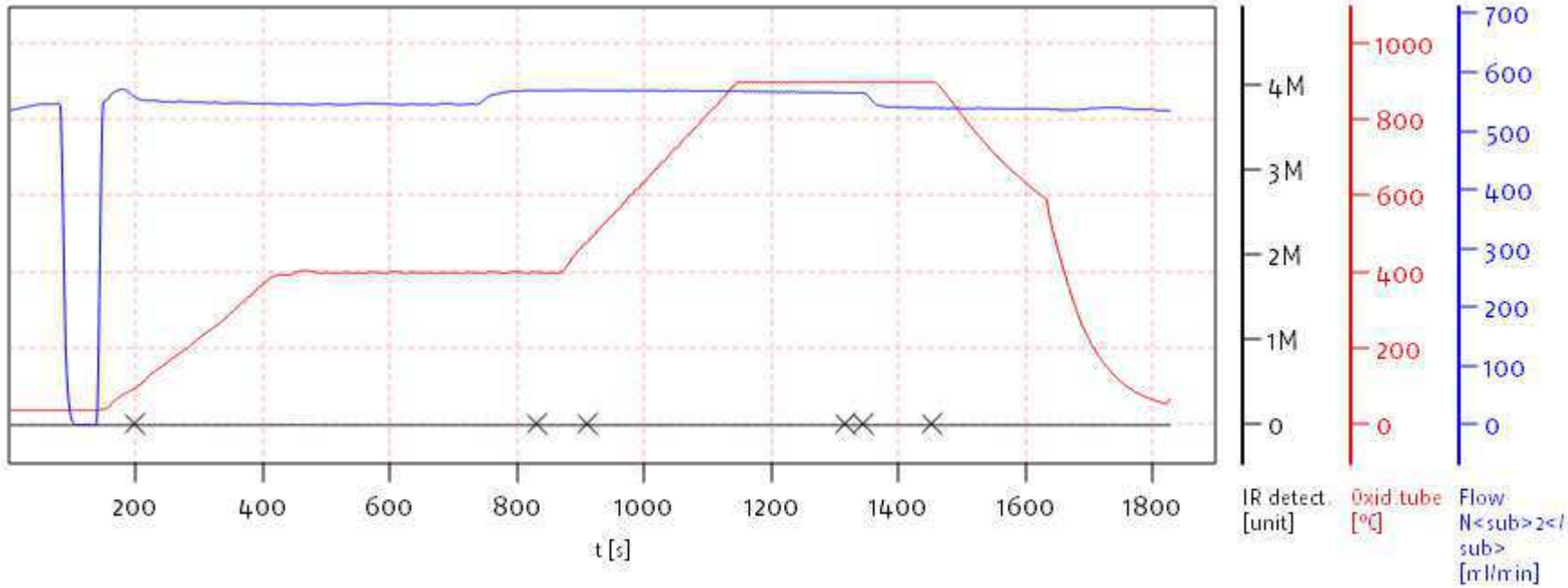
Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Sequence: SKL0336

SDG: 22L0246
Project: AOC4 UR Phase 3
Instrument: TOC Cube
Calibration: FD00070

Sample Name	Lab Sample ID	Lab File ID	Matrix	Analysis Date/Time
Calibration Blank	SKL0336-CCB9	CubeData_01032023@1005-210	NA	12/30/22 23:29
Calibration Check	SKL0336-CCVA	CubeData_01032023@1005-283	NA	12/31/22 05:04
Calibration Blank	SKL0336-CCBA	CubeData_01032023@1005-288	NA	12/31/22 05:35
Calibration Check	SKL0336-CCVB	CubeData_01032023@1005-358	NA	12/31/22 11:11
Calibration Blank	SKL0336-CCBB	CubeData_01032023@1005-364	NA	12/31/22 11:41
Calibration Check	SKL0336-CCVC	CubeData_01032023@1005-425	NA	12/31/22 17:17
Calibration Blank	SKL0336-CCBC	CubeData_01032023@1005-431	NA	12/31/22 17:48
Calibration Check	SKL0336-CCVD	CubeData_01032023@1005-504	NA	12/31/22 23:23
Calibration Blank	SKL0336-CCBD	CubeData_01032023@1005-511	NA	12/31/22 23:53

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		CARBON	12/28/2022 2:26 PM	bl	0.000	8 478	0.000	0.000	1 876	3 414	0.000	0.000	1.0000	1.0000



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Access: soliTOC superuser

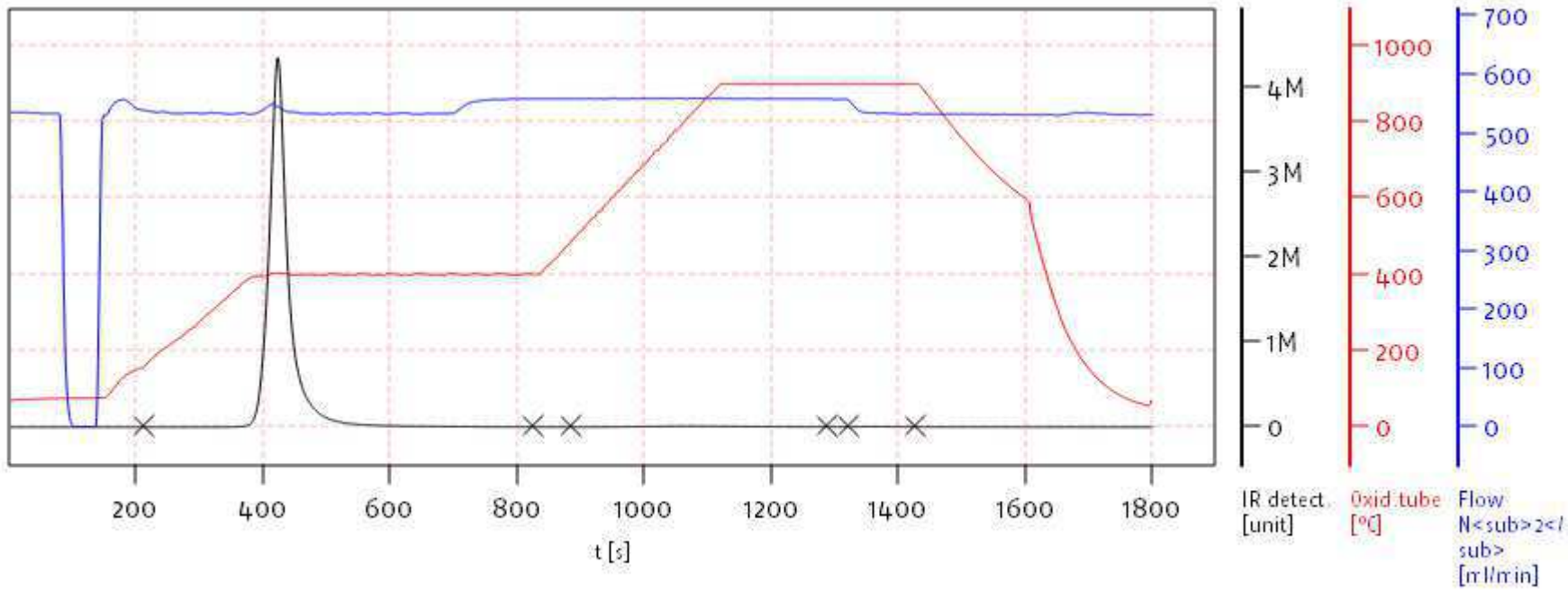
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
2	2	Dfactor	19.10		CARBON	12/28/2022 2:56 PM	bl	44.446	5 792 157	44.924	0.000	17 756	85 597	44.446	0.479	0.9511	1.0000



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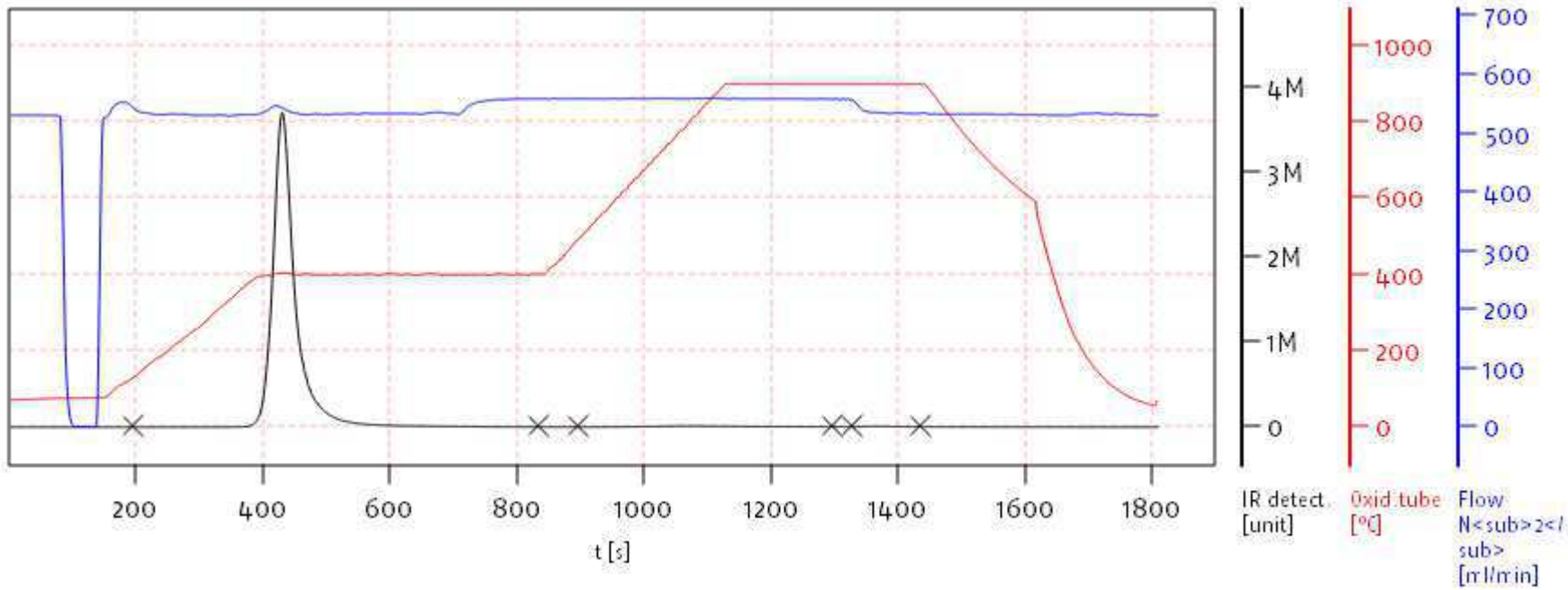
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
3	3	Dfactor	19.00		CARBON	12/28/2022 3:27 PM	bl	44.446	5 663 509	45.027	0.000	24 903	97 934	44.446	0.582	0.9677	1.0000



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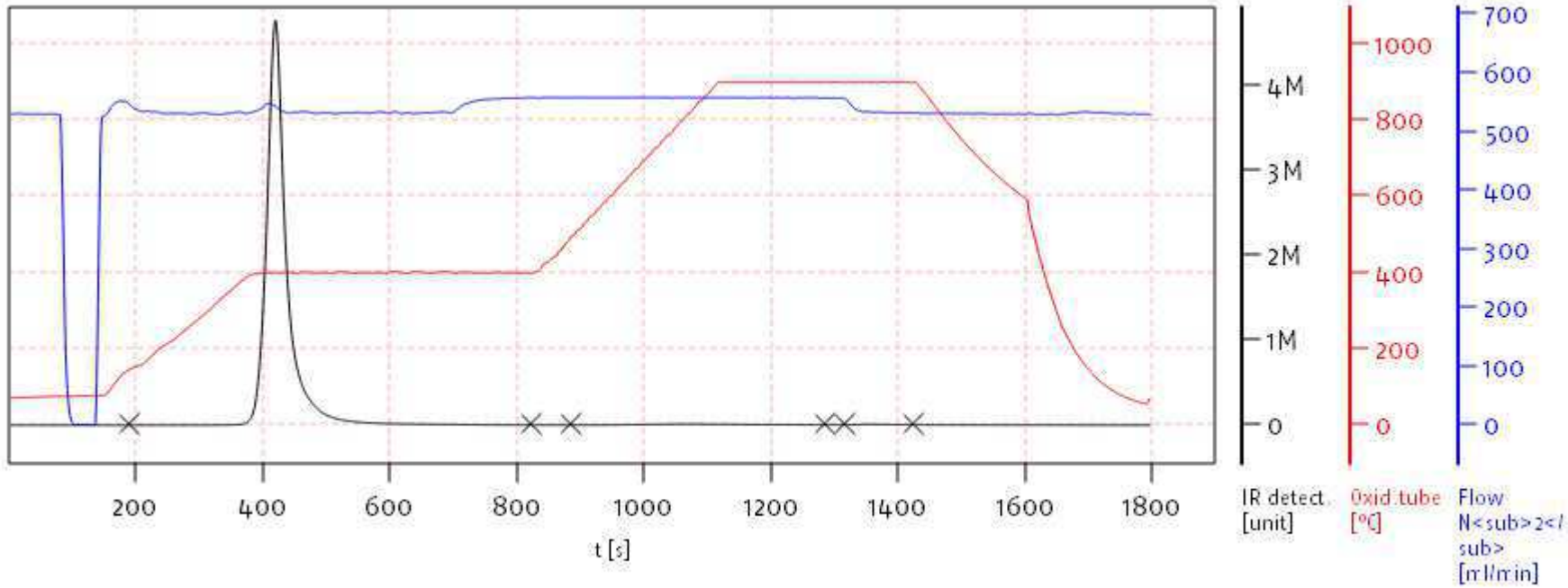
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
4	4	SKL0336-ICV1	21.60		CARBON	12/28/2022 3:57 PM	bl	44.523	6 501 448	45.056	0.001	26 669	100 954	44.522	0.533	0.9594	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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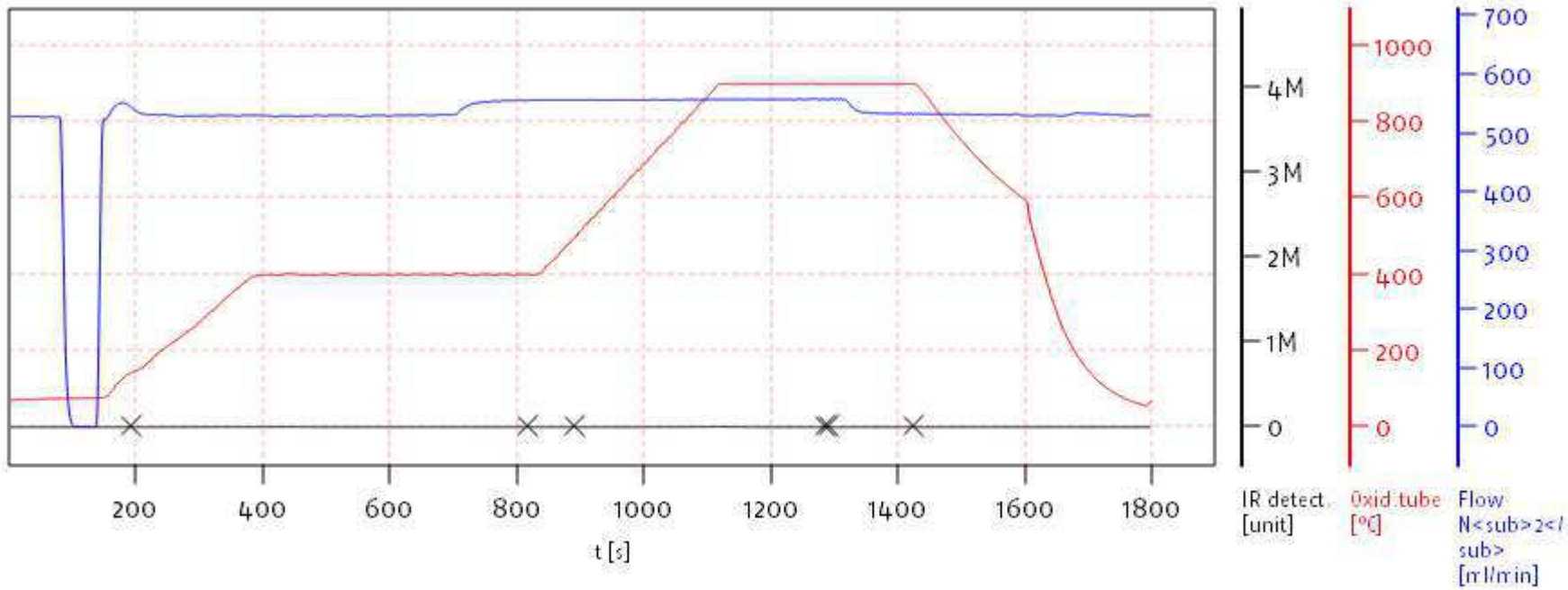
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
5	5	SKL0336-ICB1	538.20		CARBON	12/28/2022 4:28 PM	bl,C2u	0.000	16 336	0.000	0.000	992	16 586	0.000	0.000	0.9594	1.0000



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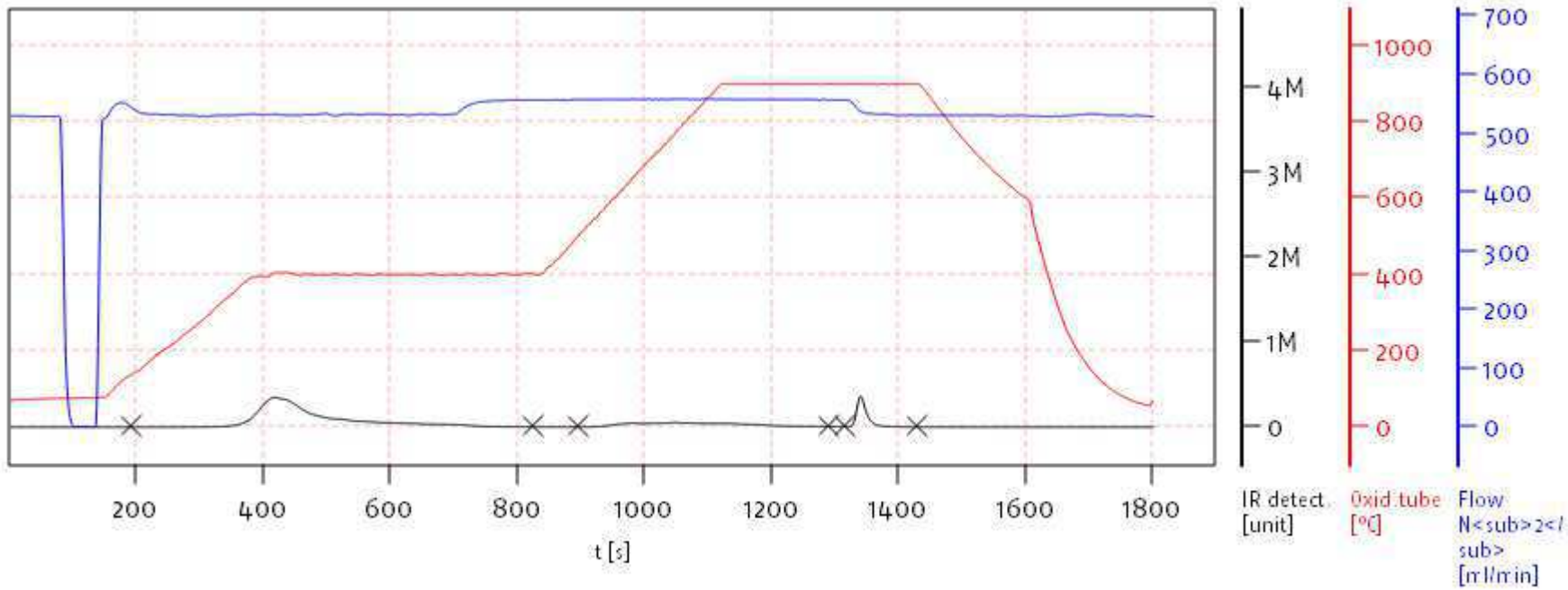
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
6	6	22L0307-51	513.50		CARBON	12/28/2022 4:58 PM	bl	0.517	1 576 030	0.639	0.068	253 460	433 029	0.448	0.123	0.9594	1.0000



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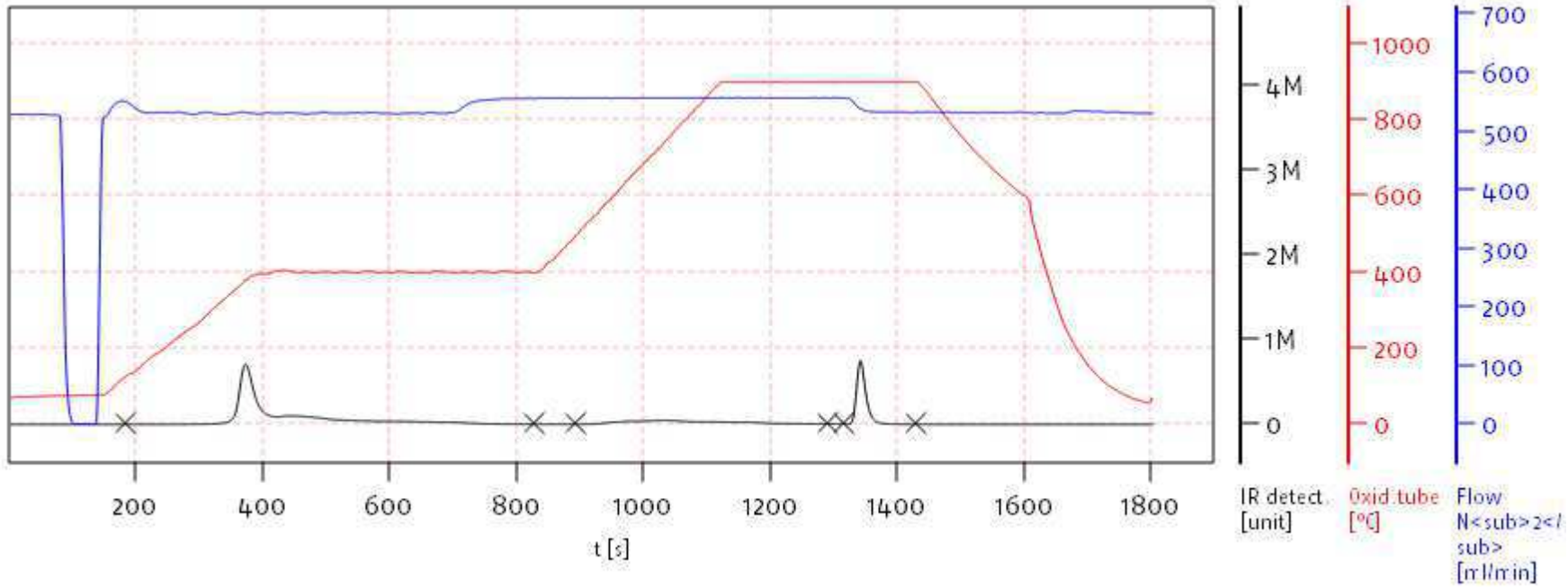
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
7	7	22L0307-52	206.60		CARBON	12/28/2022 5:28 PM	bl	1.340	1 411 575	1.583	0.344	485 920	350 334	0.996	0.243	0.9594	1.0000



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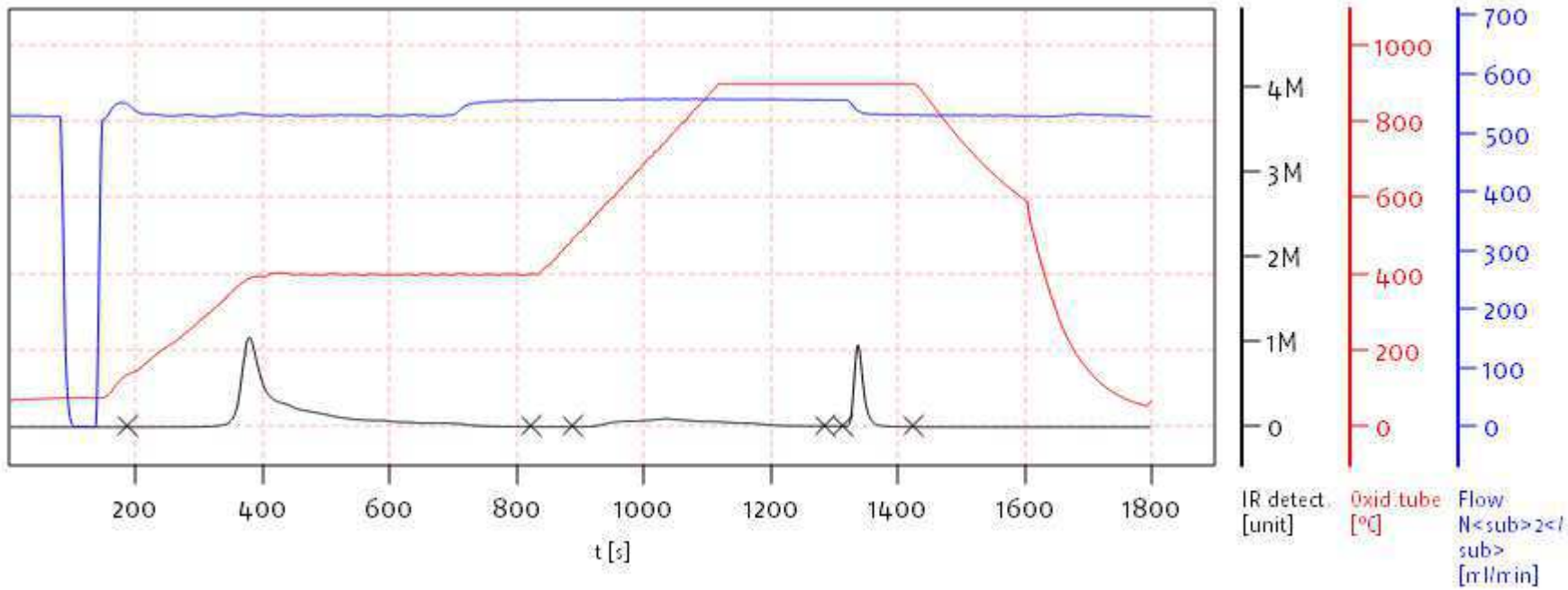
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
8	8	22L0307-53	510.80		CARBON	12/28/2022 5:59 PM	bl	0.990	2 796 609	1.195	0.184	634 878	703 238	0.805	0.205	0.9594	1.0000



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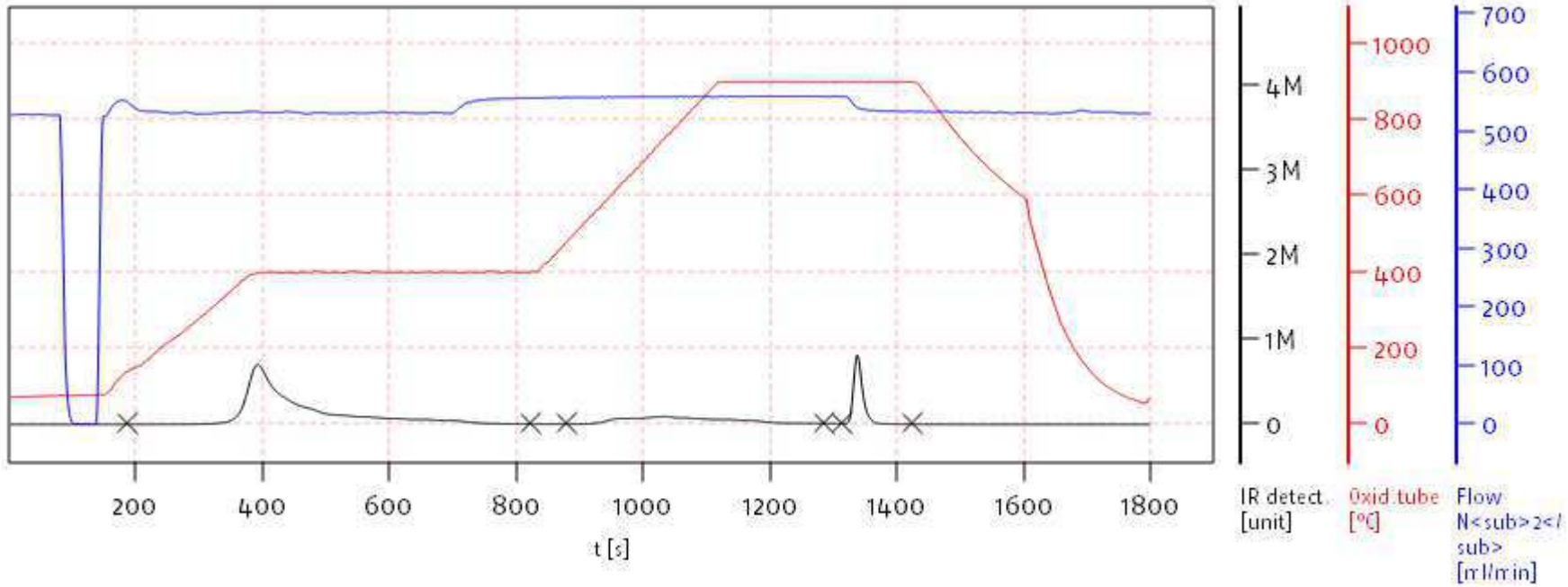
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
9	9	22L0307-54	511.80		CARBON	12/28/2022 6:29 PM	bl	0.862	2 476 874	1.065	0.151	524 802	699 052	0.711	0.203	0.9594	1.0000



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Soli TOC Cube, Carbon
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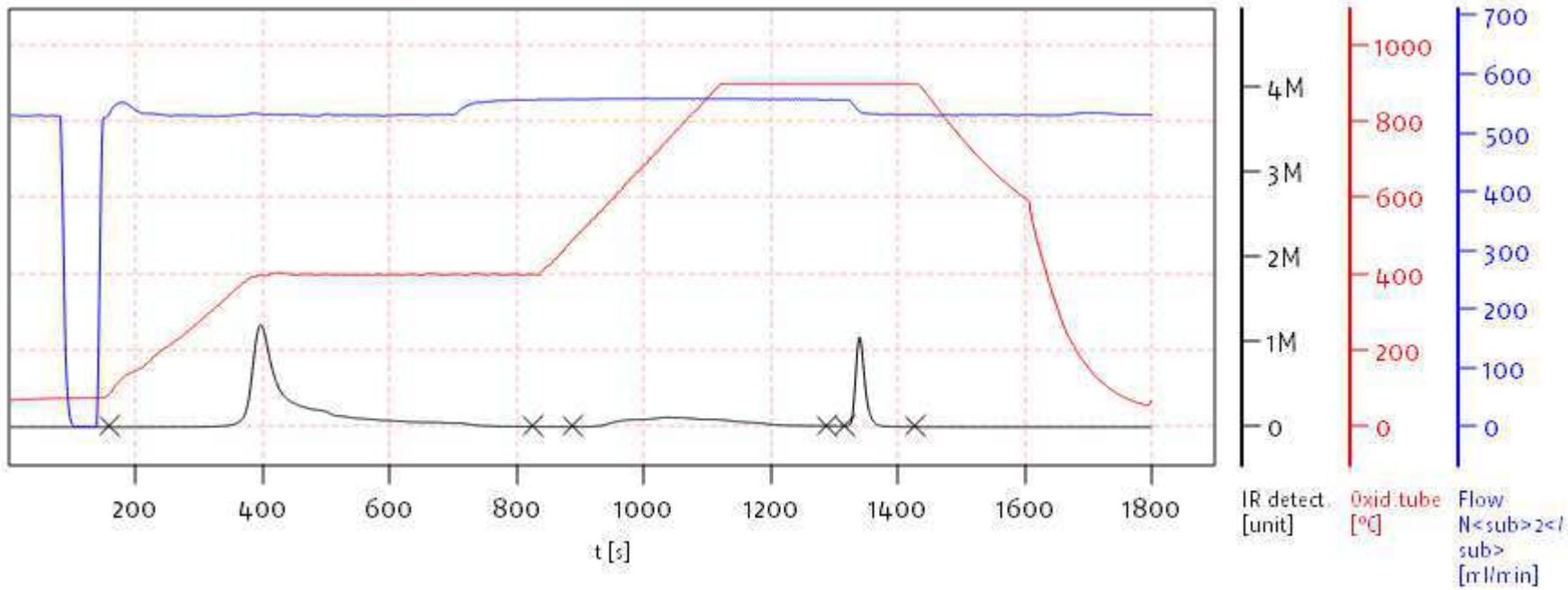
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
10	10	22L0307-55	510.30		CARBON	12/28/2022 7:00 PM	bl	1.085	3 066 894	1.342	0.200	686 890	873 634	0.885	0.257	0.9594	1.0000



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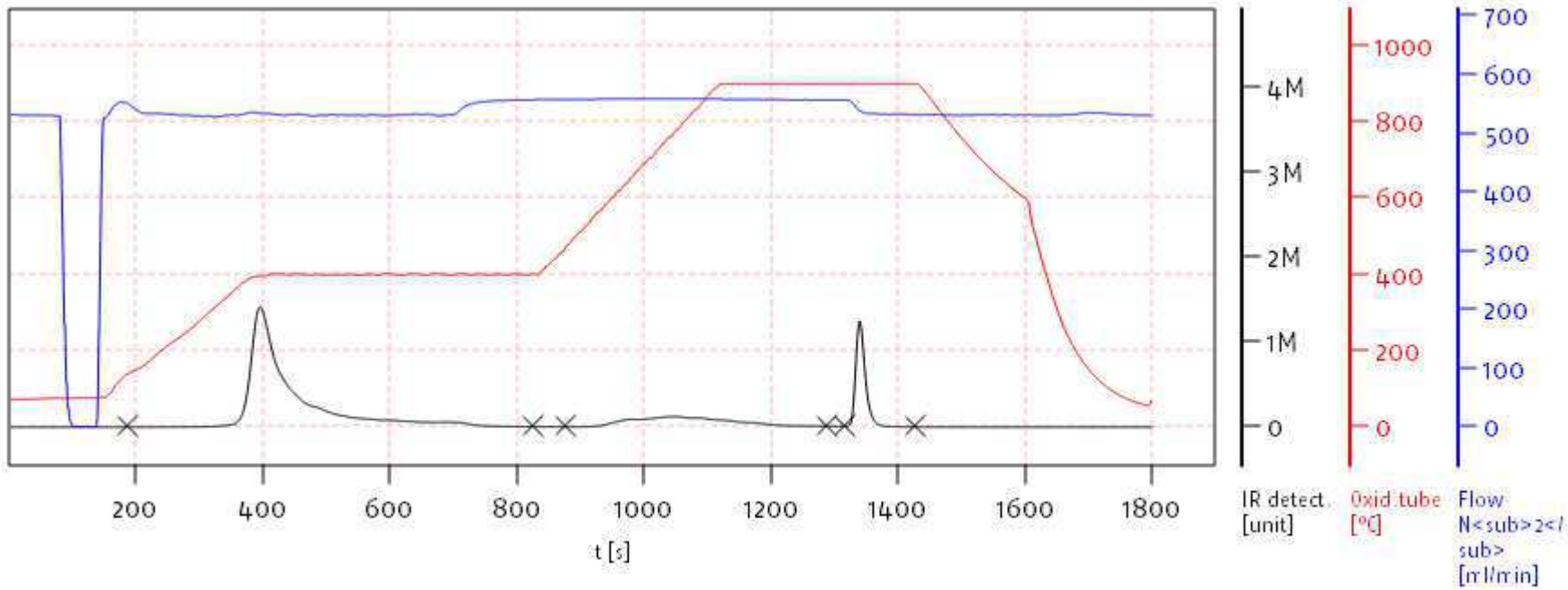
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
11	11	22L0307-56	504.50		CARBON	12/28/2022 7:30 PM	bl	1.356	3 794 415	1.620	0.246	829 669	888 171	1.109	0.264	0.9594	1.0000



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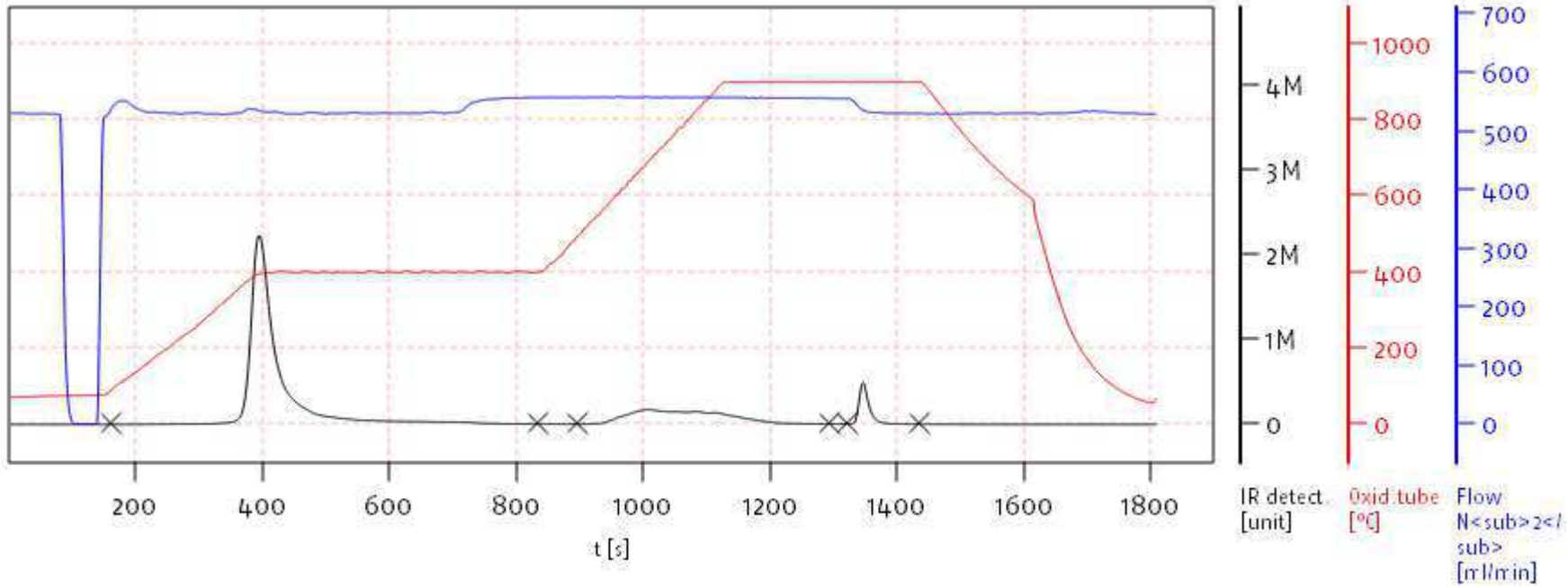
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
12	12	22L0307-57	502.40		CARBON	12/28/2022 8:01 PM	bl	1.268	3 984 731	1.625	0.098	343 337	1 185 420	1.170	0.357	0.9594	1.0000



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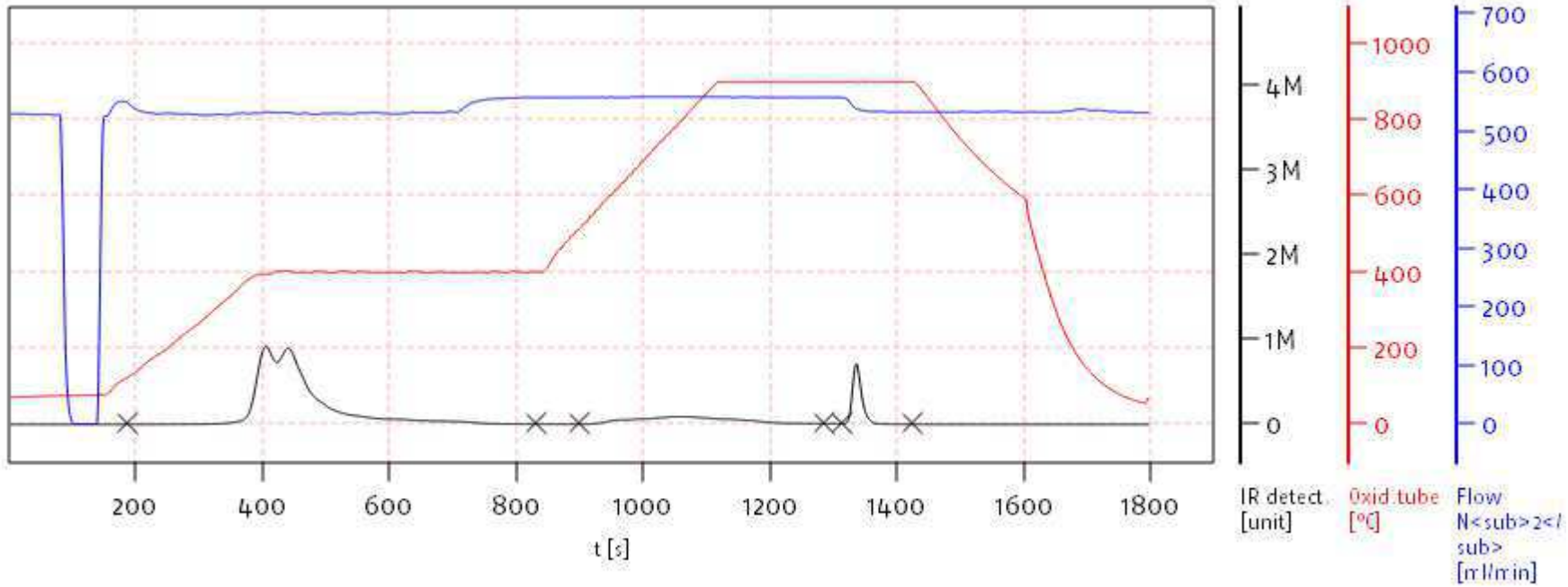
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
13	13	22L0307-58	505.00		CARBON	12/28/2022 8:31 PM	bl	1.154	3 494 981	1.354	0.134	464 042	678 247	1.020	0.200	0.9594	1.0000



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Access: soliTOC superuser

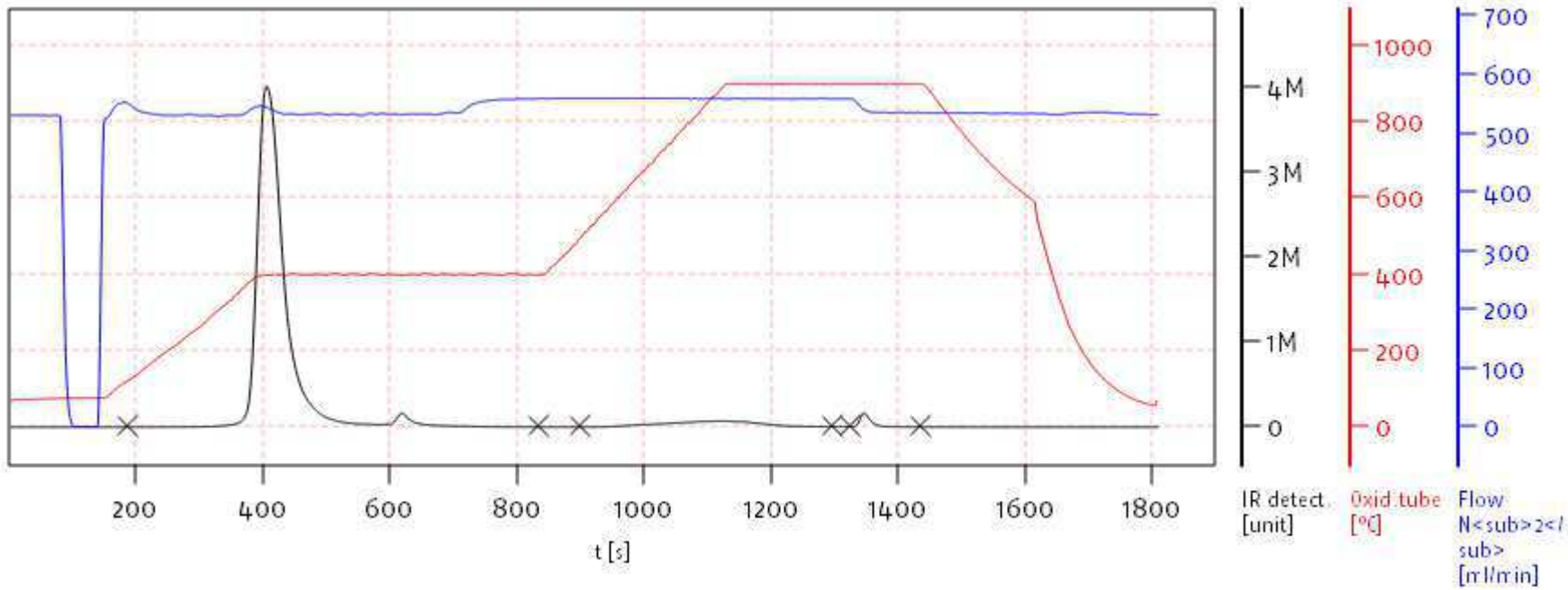
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
14	14	22L0307-59	533.40		CARBON	12/28/2022 9:01 PM	bl	2.103	7 477 145	2.234	0.028	123 903	477 355	2.075	0.131	0.9594	1.0000



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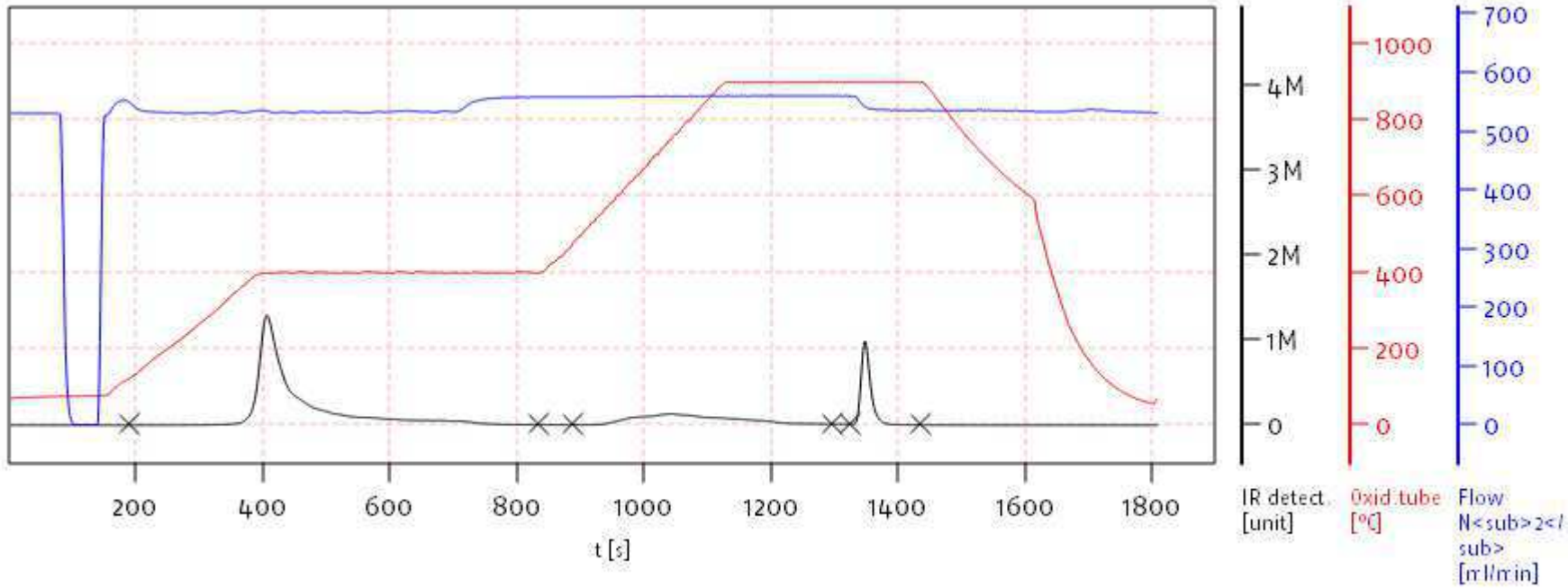
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
15	15	22L0307-60	515.50		CARBON	12/28/2022 9:32 PM	bl	1.062	3 058 738	1.332	0.188	653 728	924 826	0.874	0.270	0.9594	1.0000



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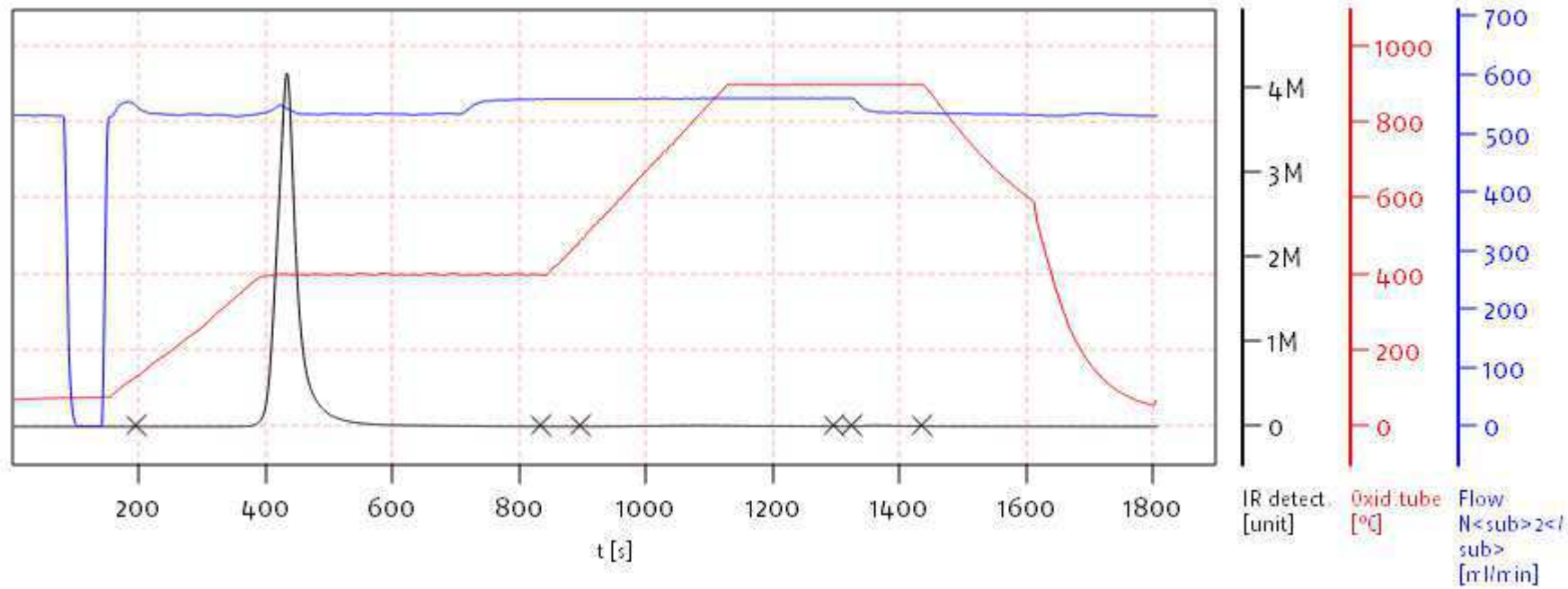
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
16	16	SKL0336-CCV1	19.70		CARBON	12/28/2022 10:02 PM	bl	44.126	5 874 829	44.681	0.035	30 950	97 177	44.092	0.555	0.9594	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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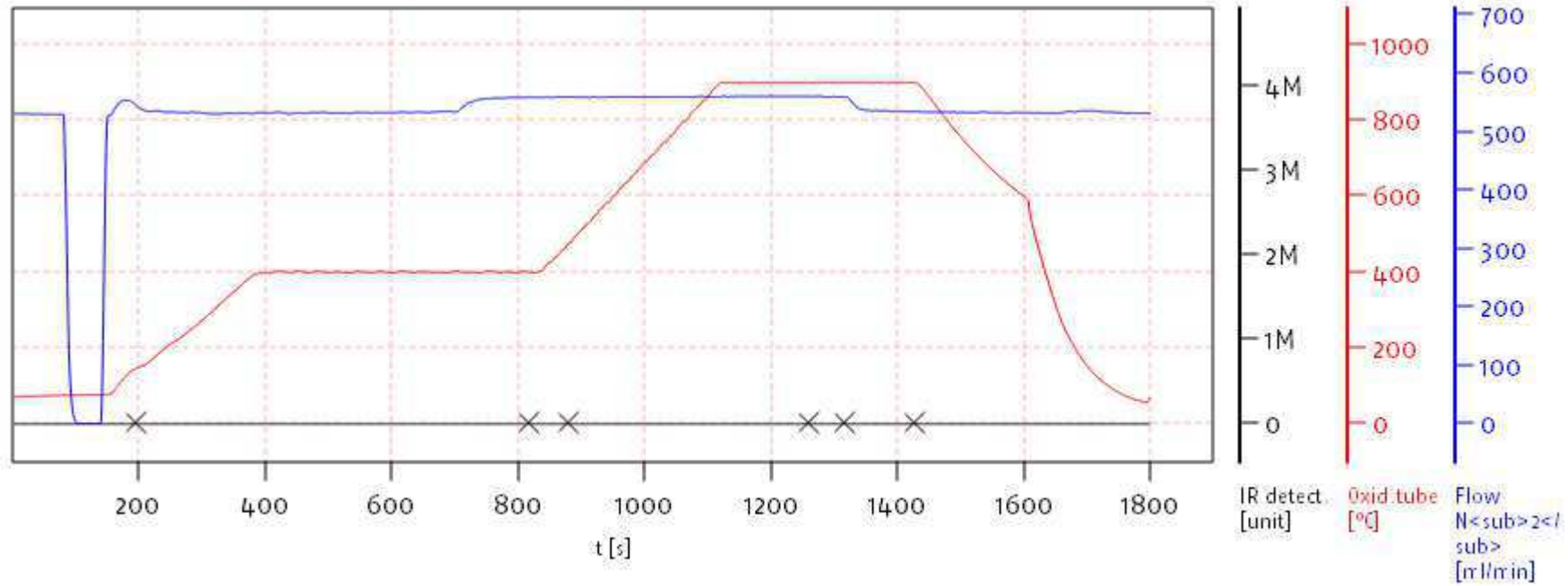
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
17	17	SKL0336-CCB1	512.00		CARBON	12/28/2022 10:33 PM	bl,C3u,C2u	0.000	4 468	0.000	0.000	710	713	0.000	0.000	0.9594	1.0000



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elementar
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Soli TOC Cube, Carbon
Balance: BAL3
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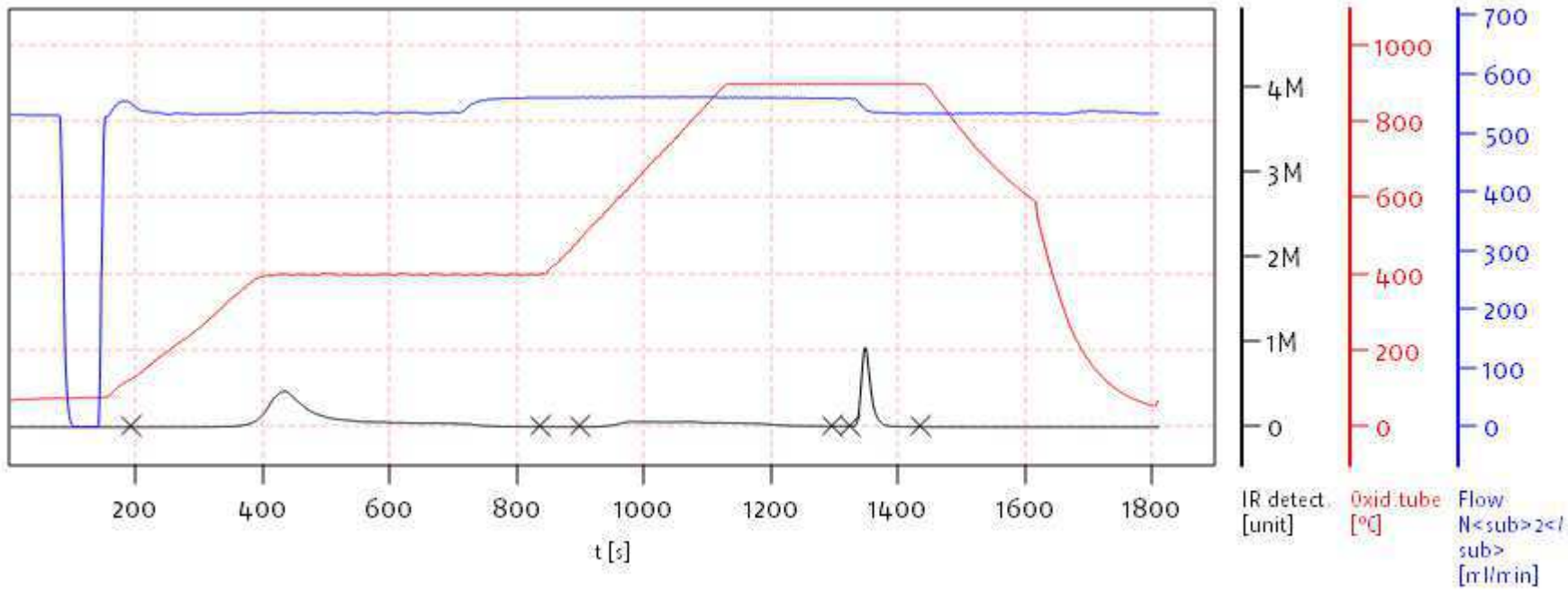
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
18	18	22L0307-61	531.80		CARBON	12/28/2022 11:03 PM	bl	0.626	1 642 239	0.780	0.174	625 649	555 991	0.451	0.154	0.9594	1.0000



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Serial No: 0300.181017
Mode CCC

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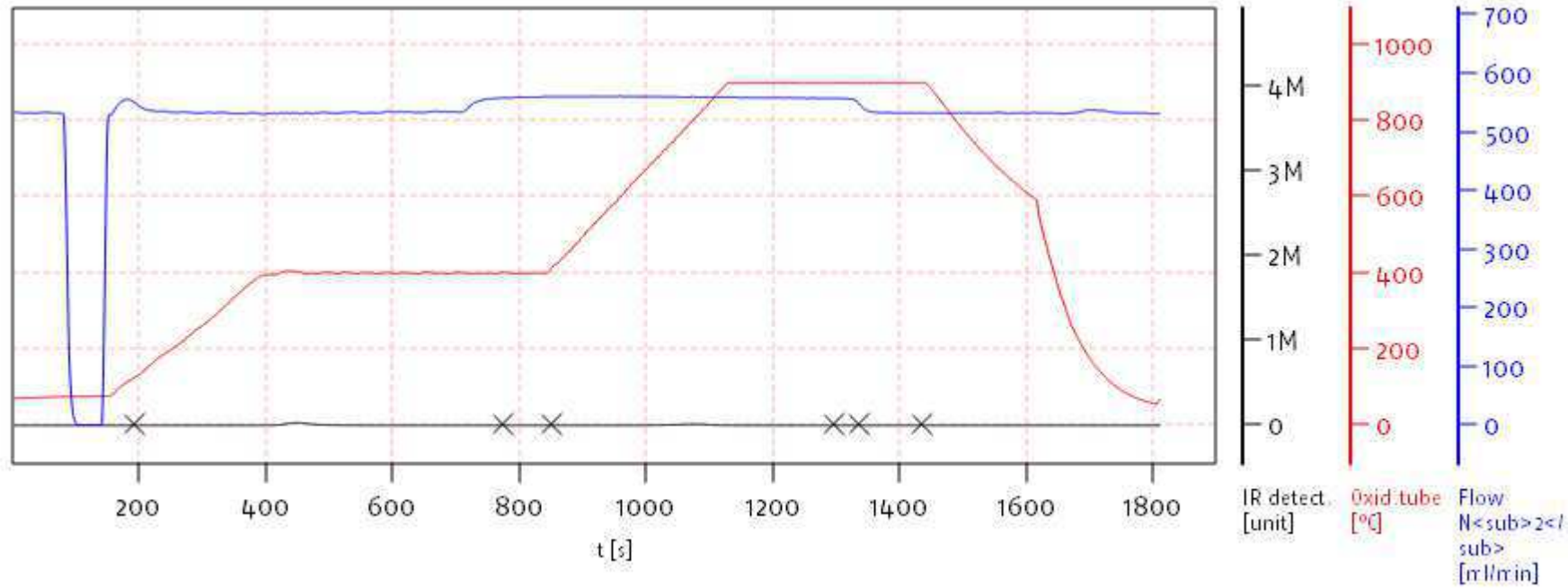
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
19	19	BKL0587-MRL1	510.20		CARBON	12/28/2022 11:34 PM	bl,C2u	0.010	60 063	0.013	0.000	430	35 567	0.010	0.003	0.9594	1.0000



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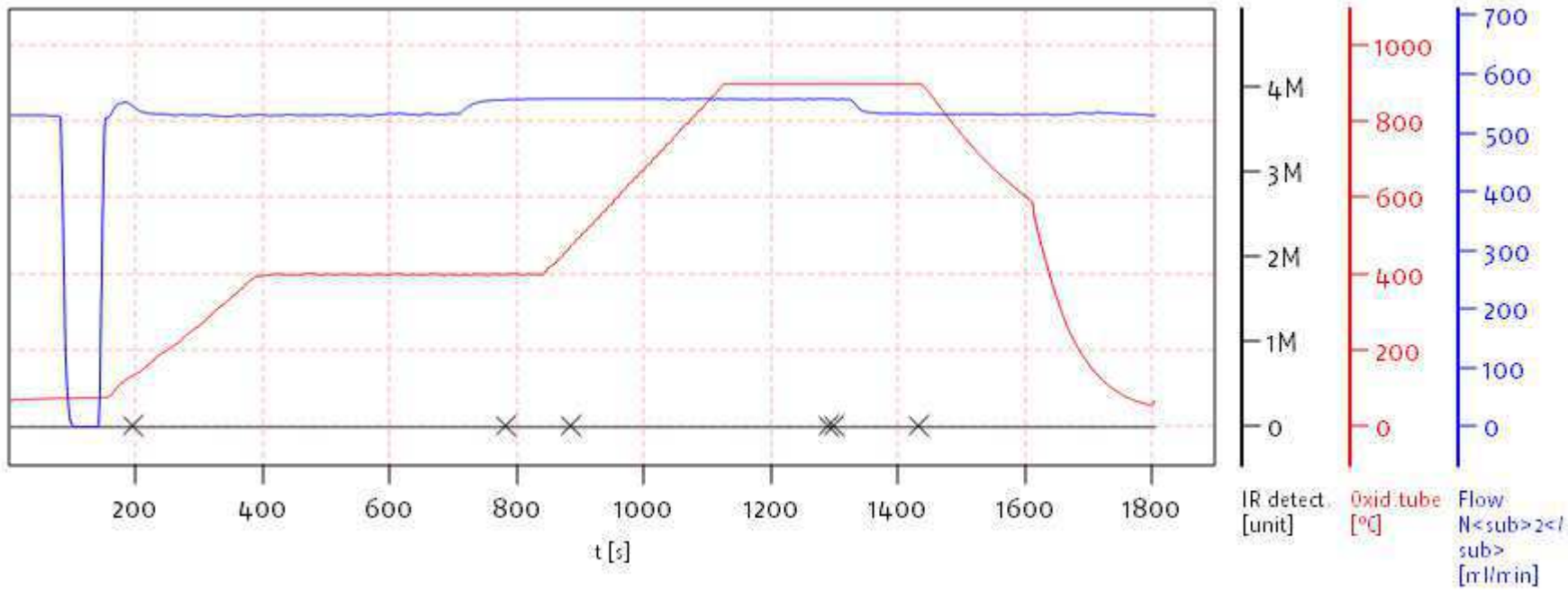
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
20	20	BKL0587-BLK1	512.80		CARBON	12/29/2022 12:04 AM	bl,C3u,C2u	0.000	5 080	0.000	0.000	641	2 237	0.000	0.000	0.9594	1.0000



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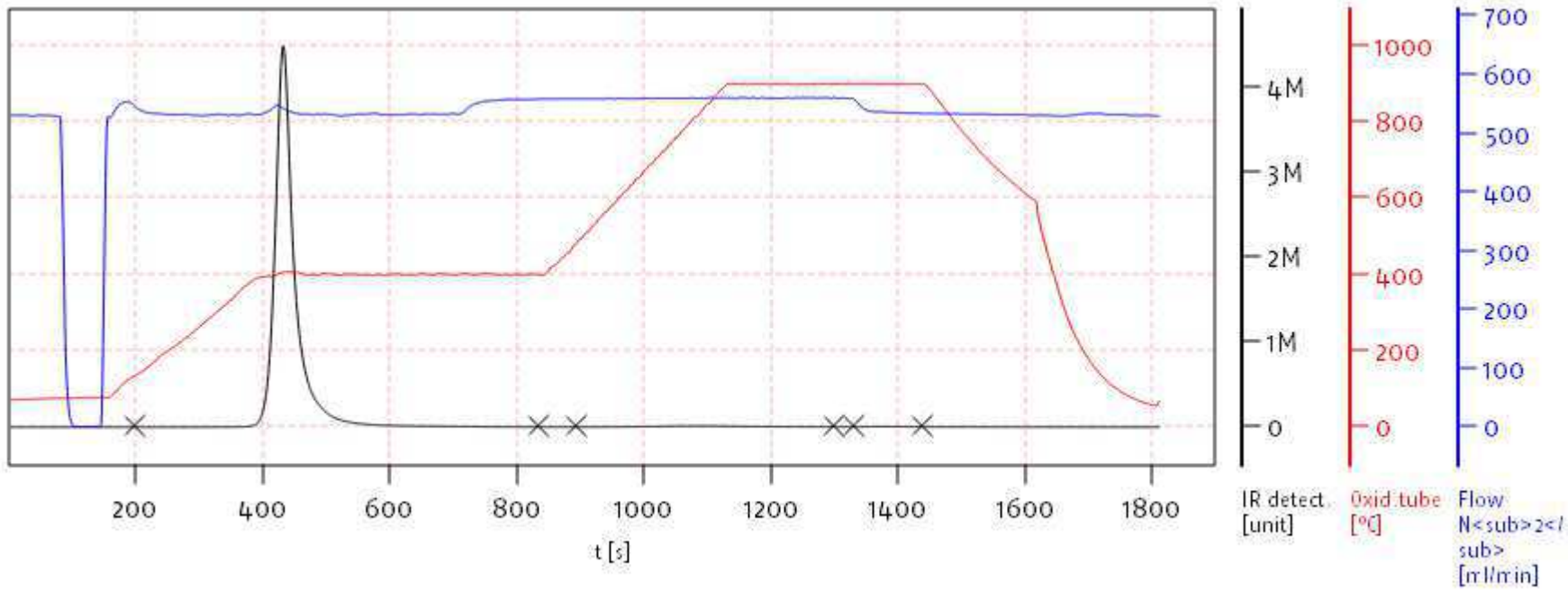
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
21	21	BKL0587-BS1	19.90		CARBON	12/29/2022 12:35 AM	bl	44.656	6 009 876	45.212	0.000	20 894	98 026	44.656	0.556	0.9594	1.0000



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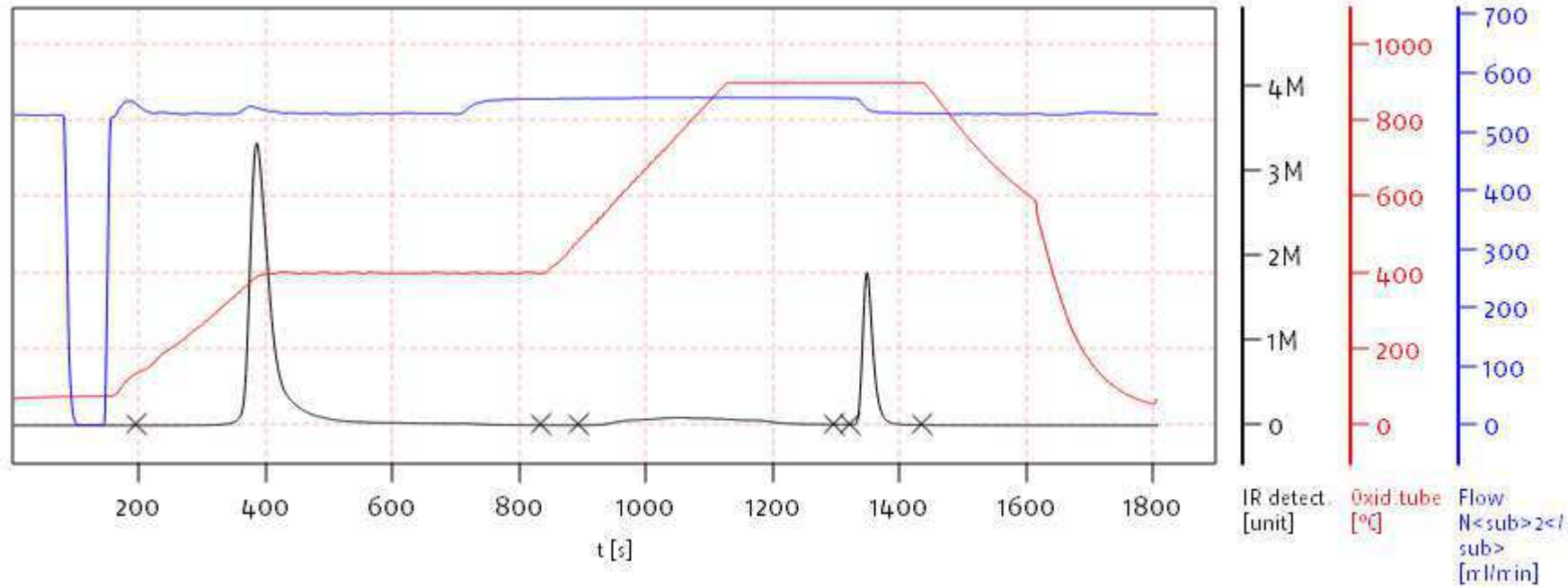
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
22	22	BKL0587-SRM1	312.00		CARBON	12/29/2022 1:06 AM	bl	3.016	5 024 035	3.374	0.637	1 309 591	748 752	2.379	0.358	0.9594	1.0000



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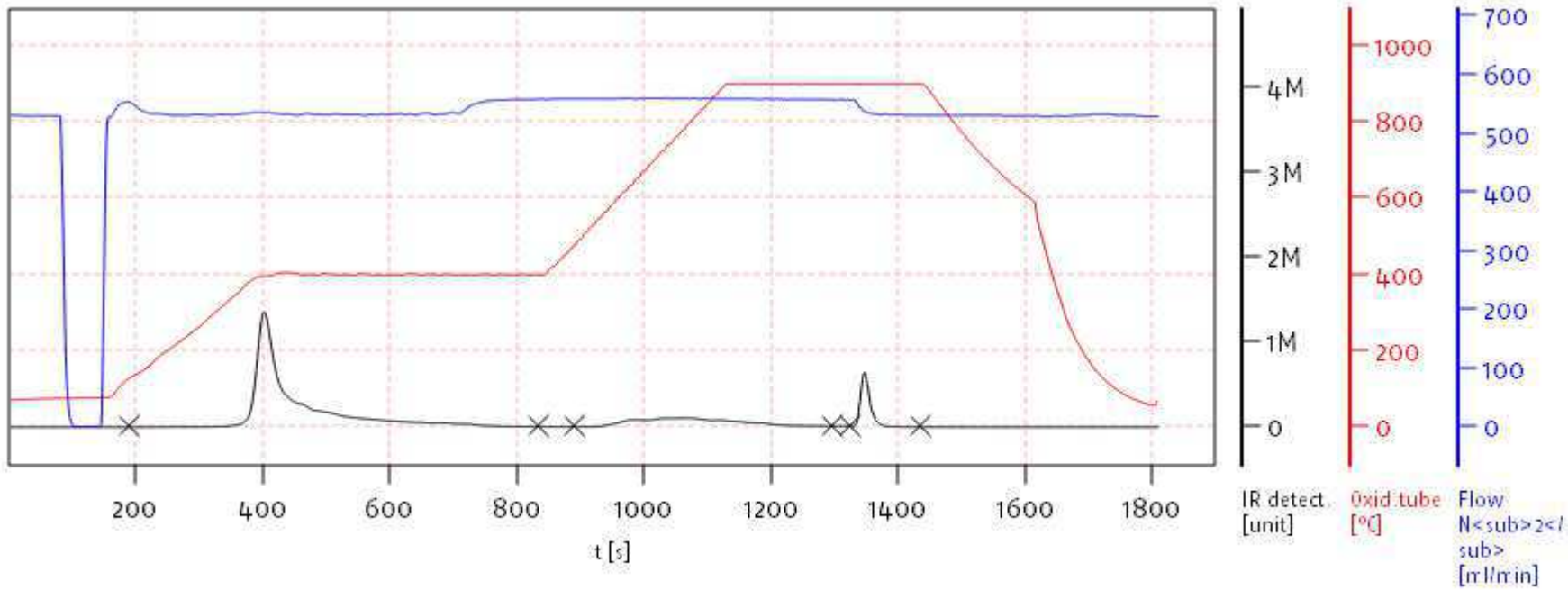
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
23	23	22L0307-62	539.60		CARBON	12/29/2022 1:36 AM	bl	0.945	3 045 637	1.173	0.114	424 214	821 013	0.831	0.228	0.9594	1.0000



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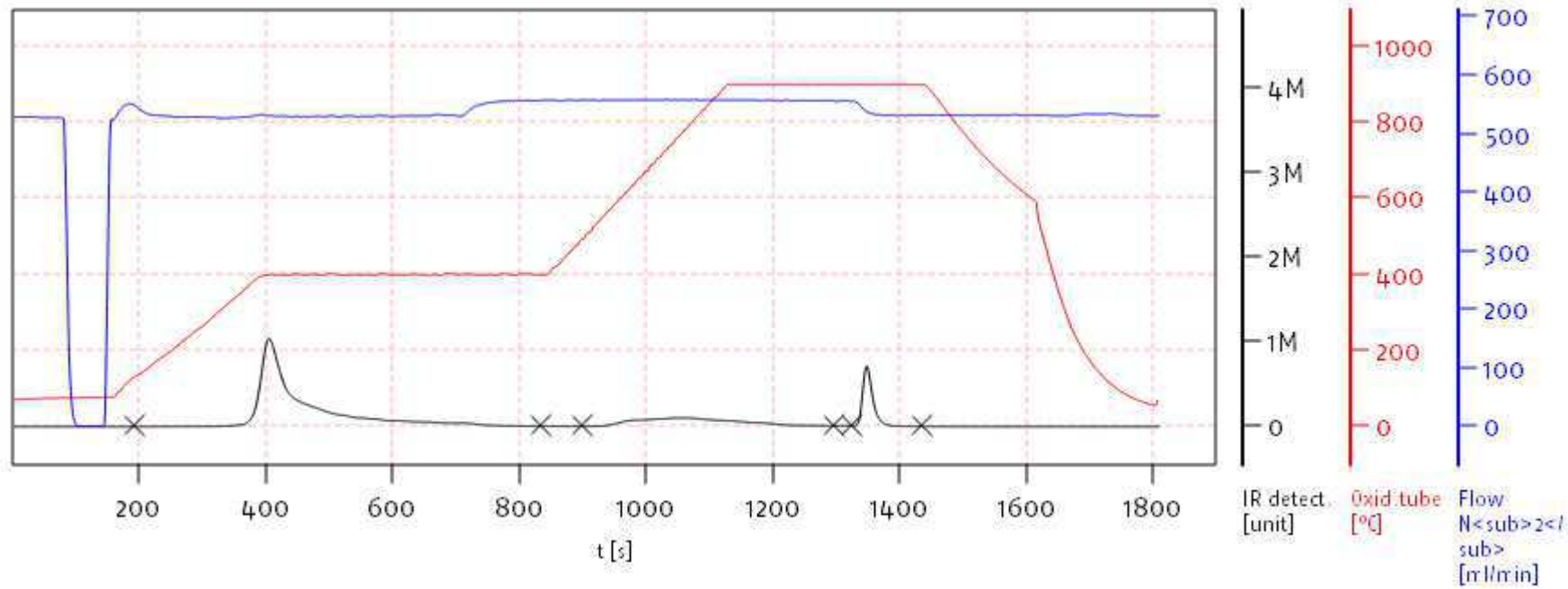
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
24	24	BKL0587-DUP1	504.10		CARBON	12/29/2022 2:07 AM	bl	0.955	2 765 977	1.185	0.148	508 583	774 381	0.807	0.230	0.9594	1.0000



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Soli TOC Cube, Carbon
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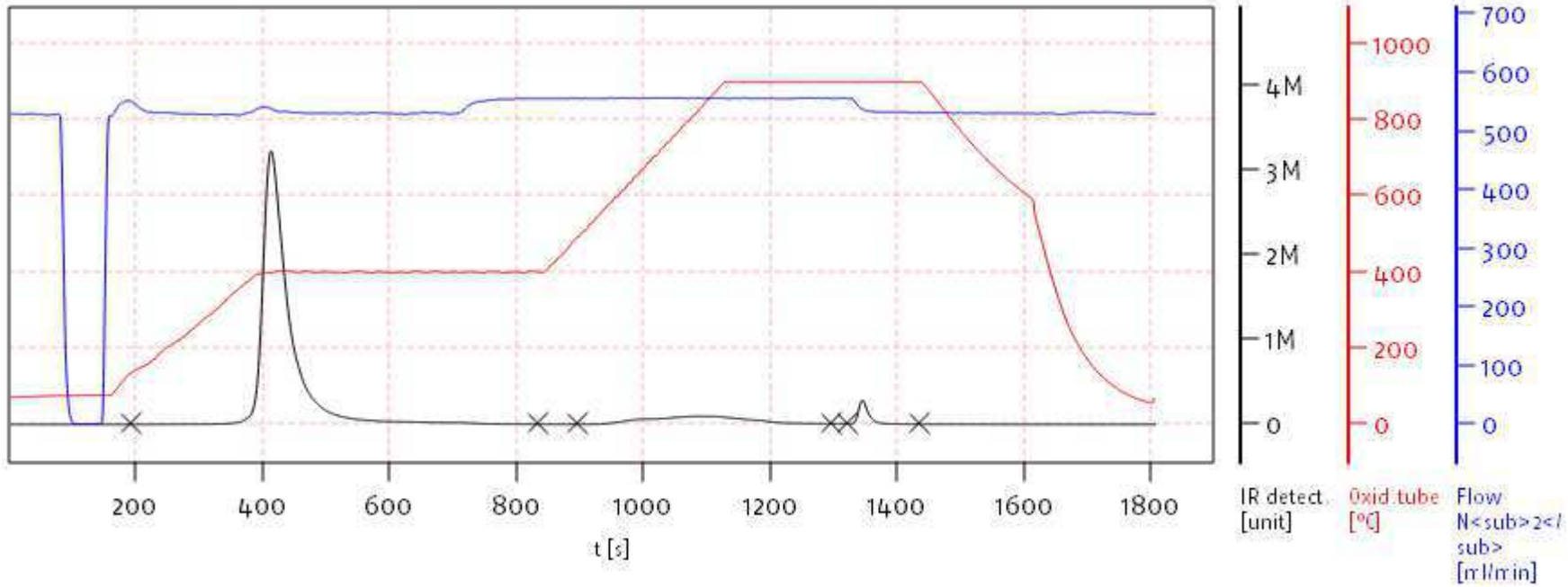
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
25	25	BKL0587-MS1	523.60	0.0083	CARBON	12/29/2022 2:37 AM	bl	1.680	5 761 308	1.879	0.053	206 236	698 891	1.627	0.199	0.9594	1.0000



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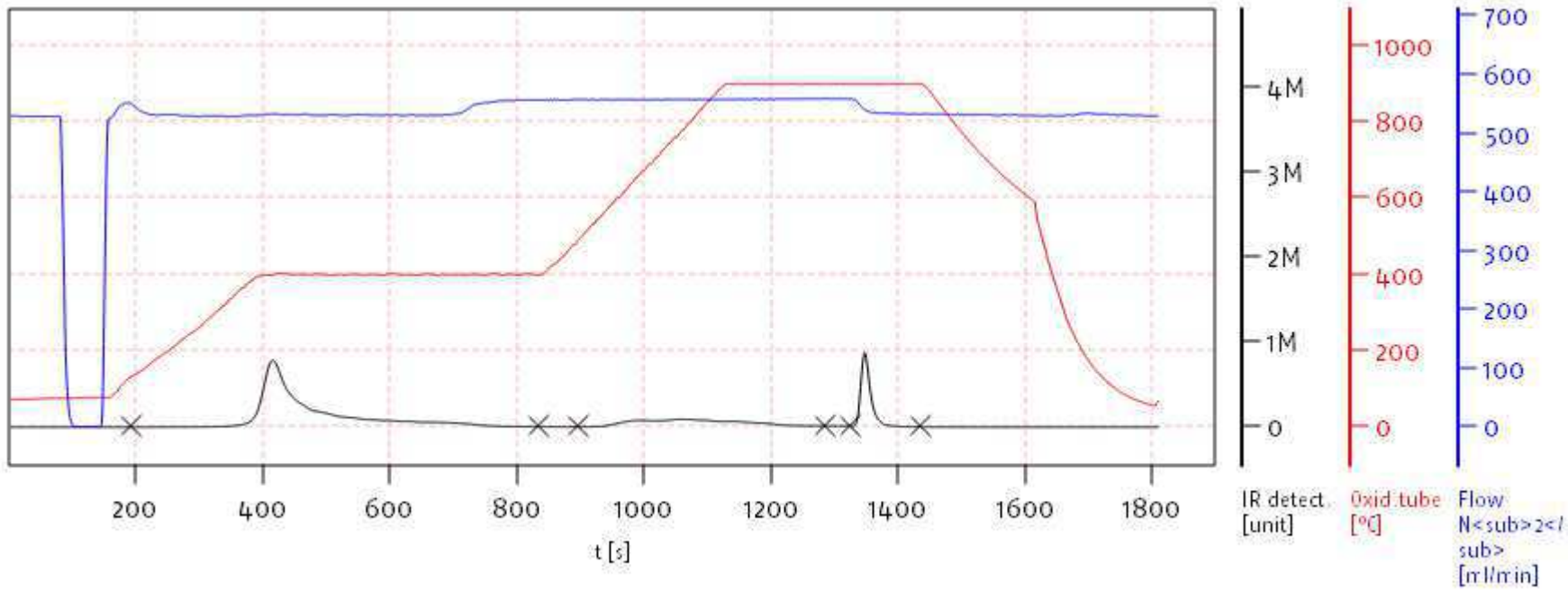
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
26	26	22L0307-63	514.30		CARBON	12/29/2022 3:08 AM	bl	0.861	2 410 205	1.074	0.173	600 570	733 979	0.688	0.213	0.9594	1.0000



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elementar
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Soli TOC Cube, Carbon
Balance: BAL3
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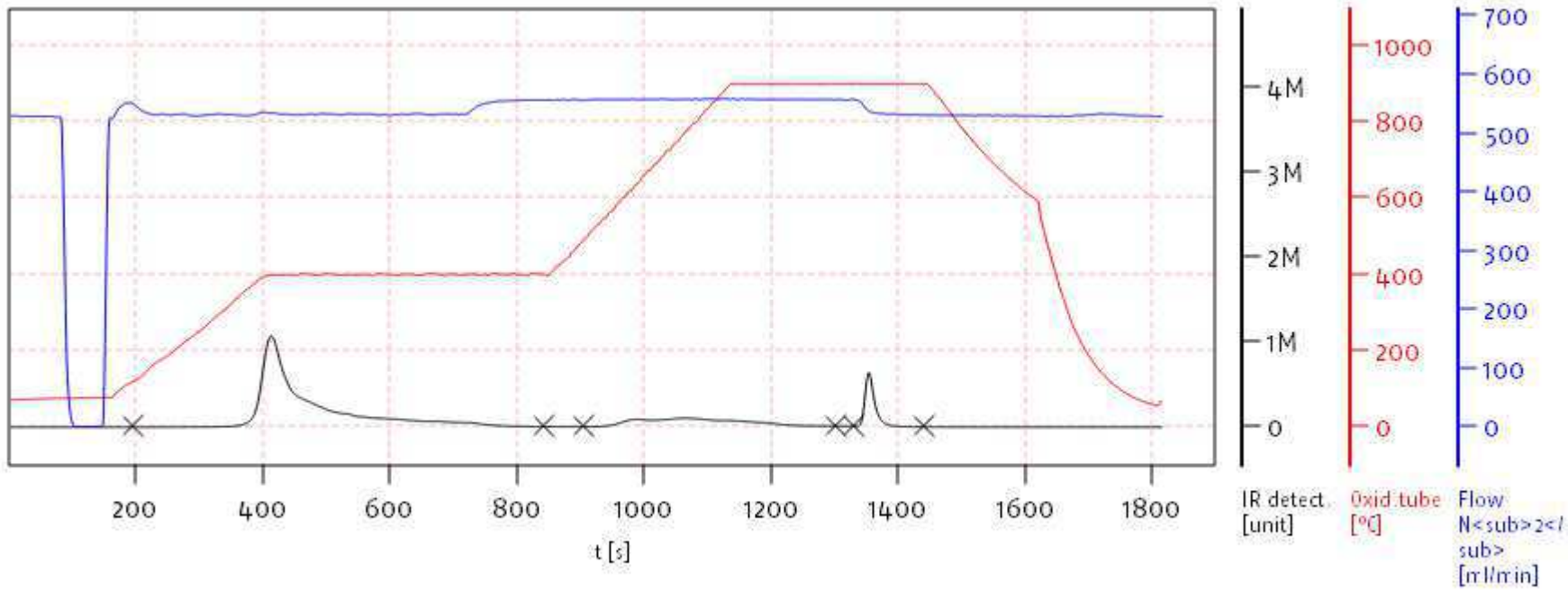
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
27	27	22L0307-64	556.30		CARBON	12/29/2022 3:38 AM	bl	0.948	3 143 742	1.171	0.115	441 163	829 711	0.832	0.224	0.9594	1.0000



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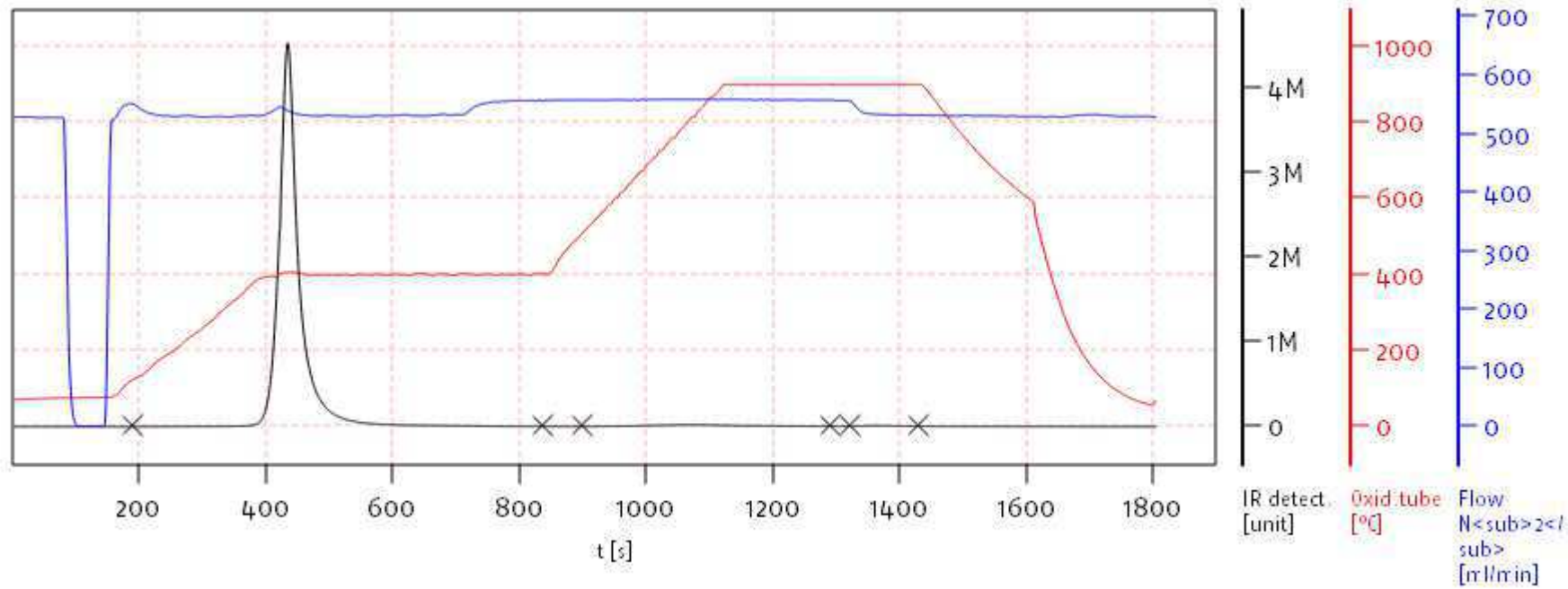
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
28	28	SKL0336-CCV2	20.90		CARBON	12/29/2022 4:09 AM	bl	44.122	6 230 850	45.047	0.032	30 812	151 468	44.090	0.925	0.9594	1.0000



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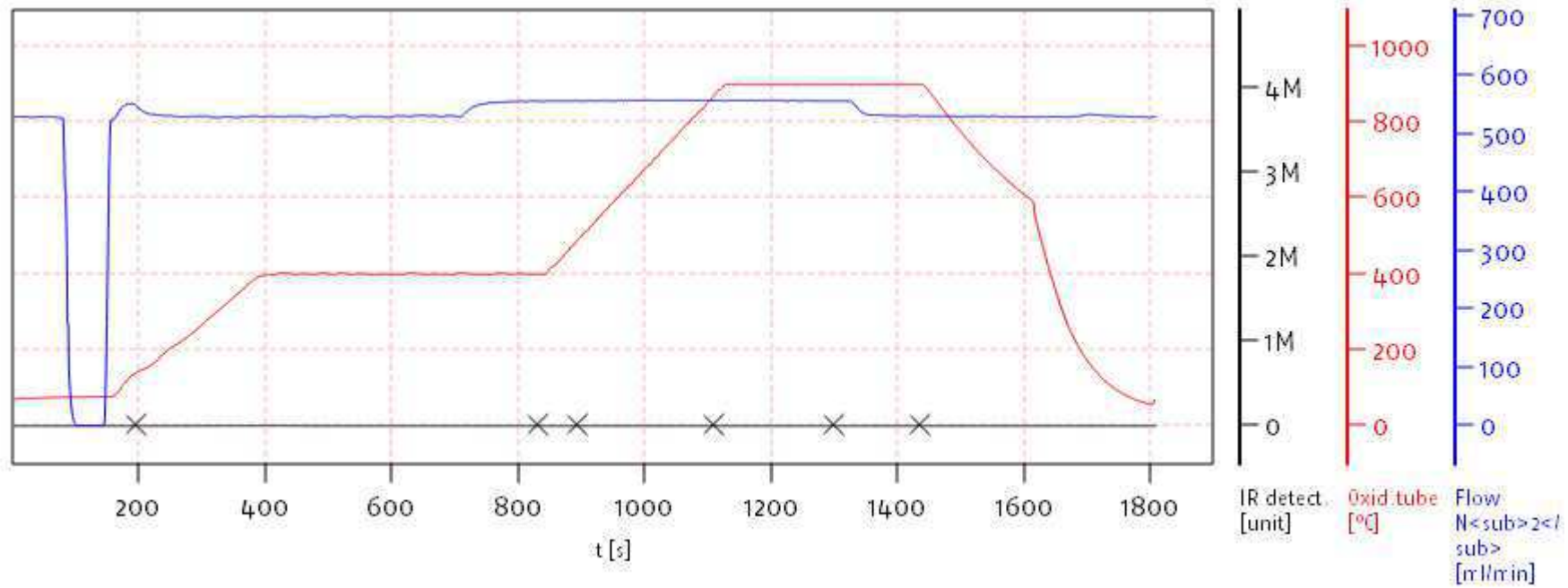
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
29	29	SKL0336-CCB2	506.50		CARBON	12/29/2022 4:39 AM	bl,C3u,C2u	0.000	12 516	0.000	0.000	620	121	0.000	0.000	0.9594	1.0000



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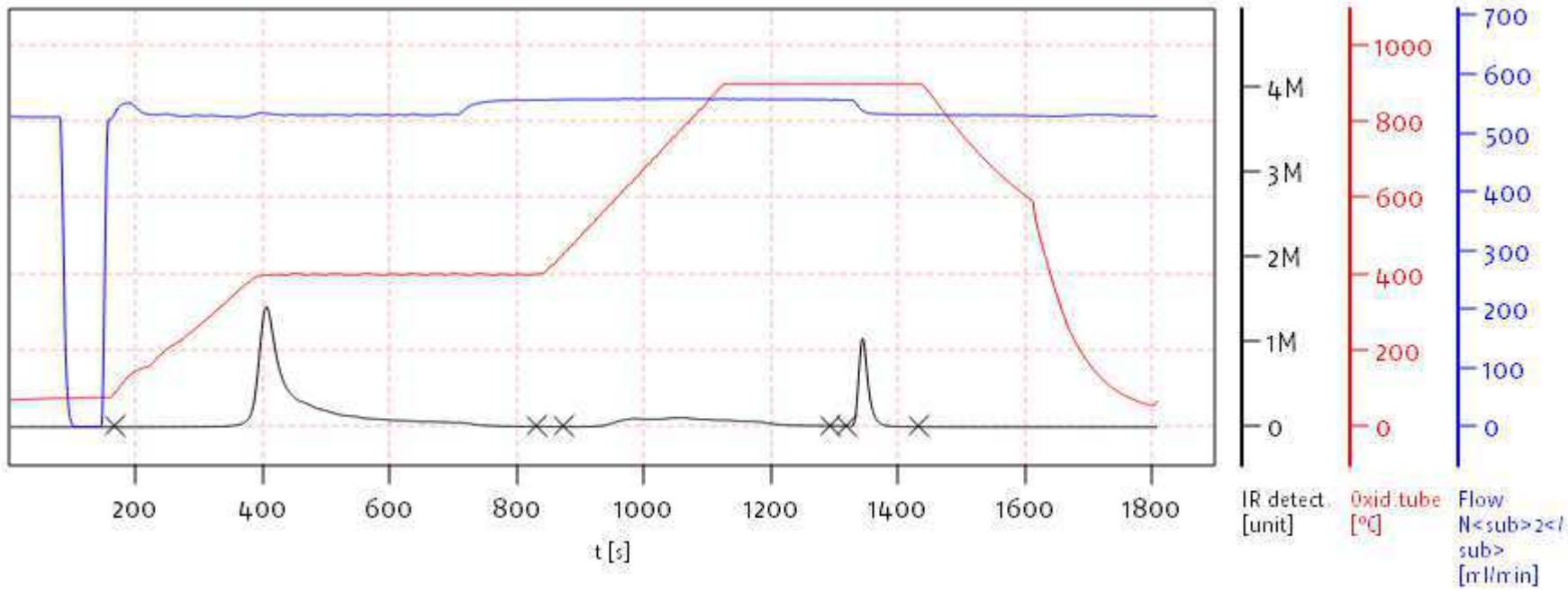
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
30	30	22L0307-65	540.60		CARBON	12/29/2022 5:10 AM	bl	1.104	3 338 181	1.355	0.194	704 009	903 607	0.910	0.251	0.9594	1.0000



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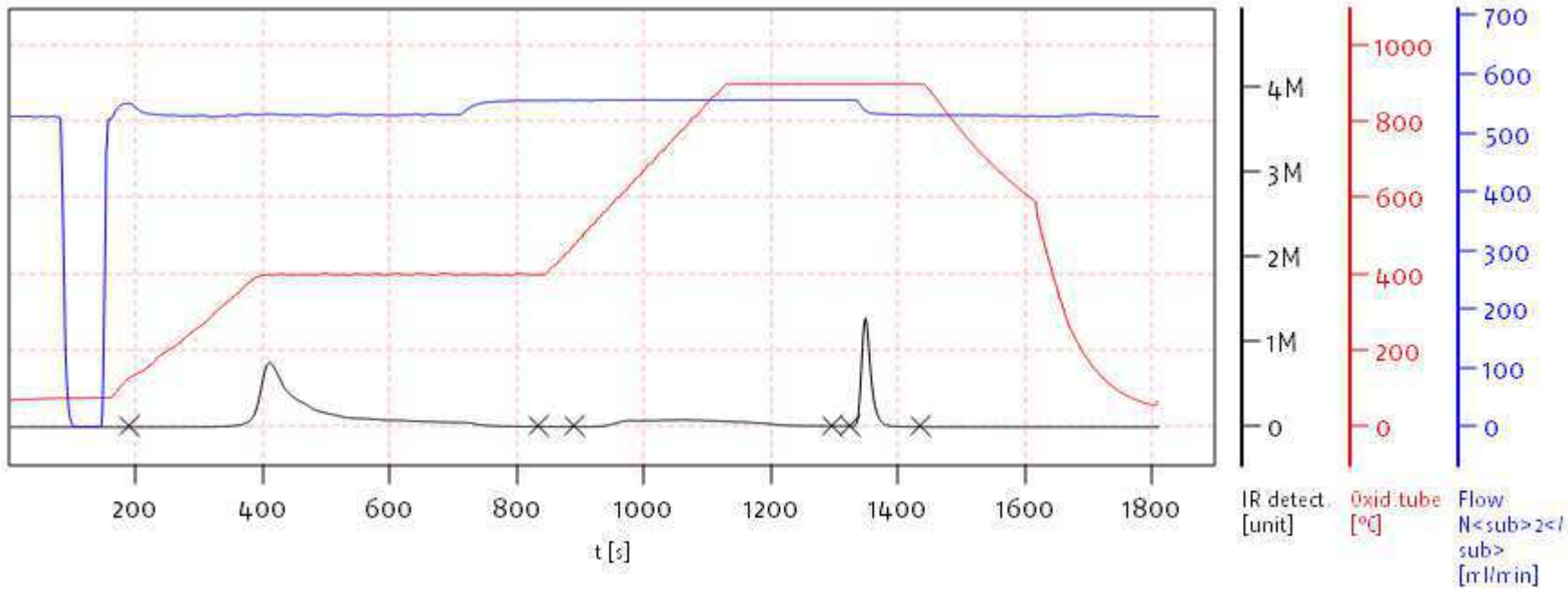
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
31	31	22L0307-66	527.40		CARBON	12/29/2022 5:40 AM	bl	0.944	2 530 940	1.153	0.239	840 943	736 911	0.705	0.209	0.9594	1.0000



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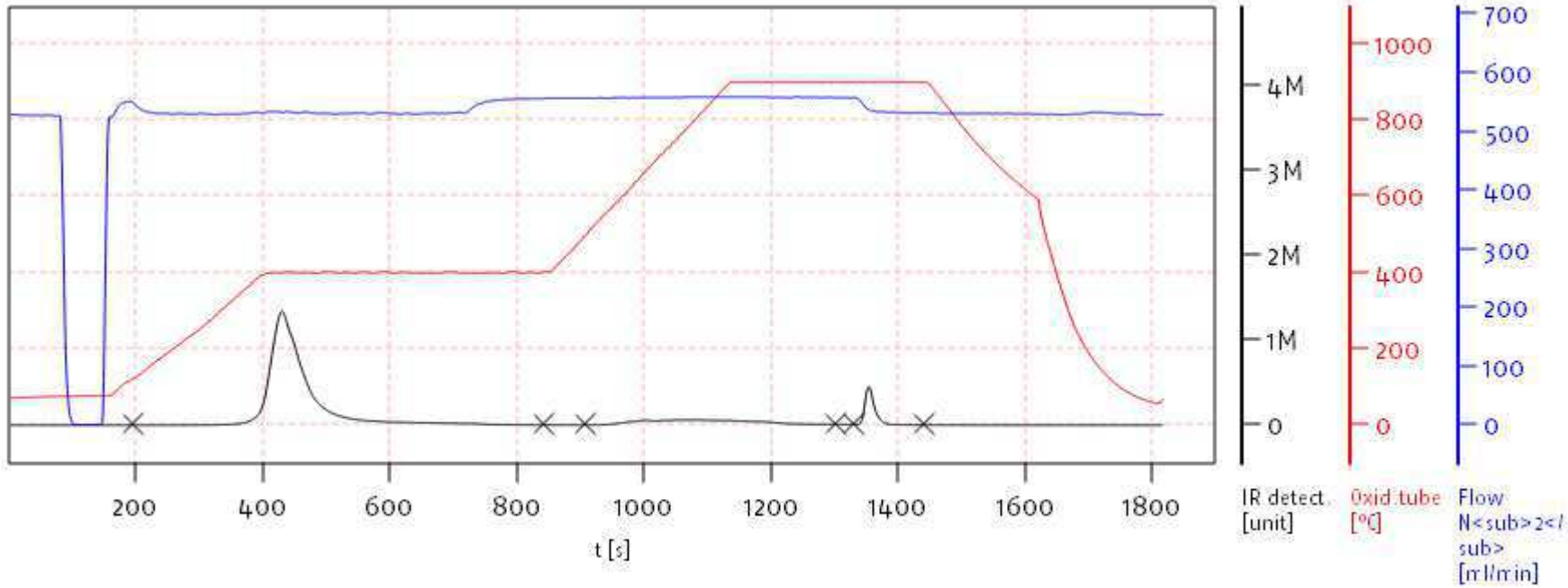
Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
32	32	22L0473-01	503.10		CARBON	12/29/2022 6:11 AM	bl	1.033	3 234 454	1.188	0.086	305 690	531 582	0.947	0.155	0.9594	1.0000



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Balance: BAL3
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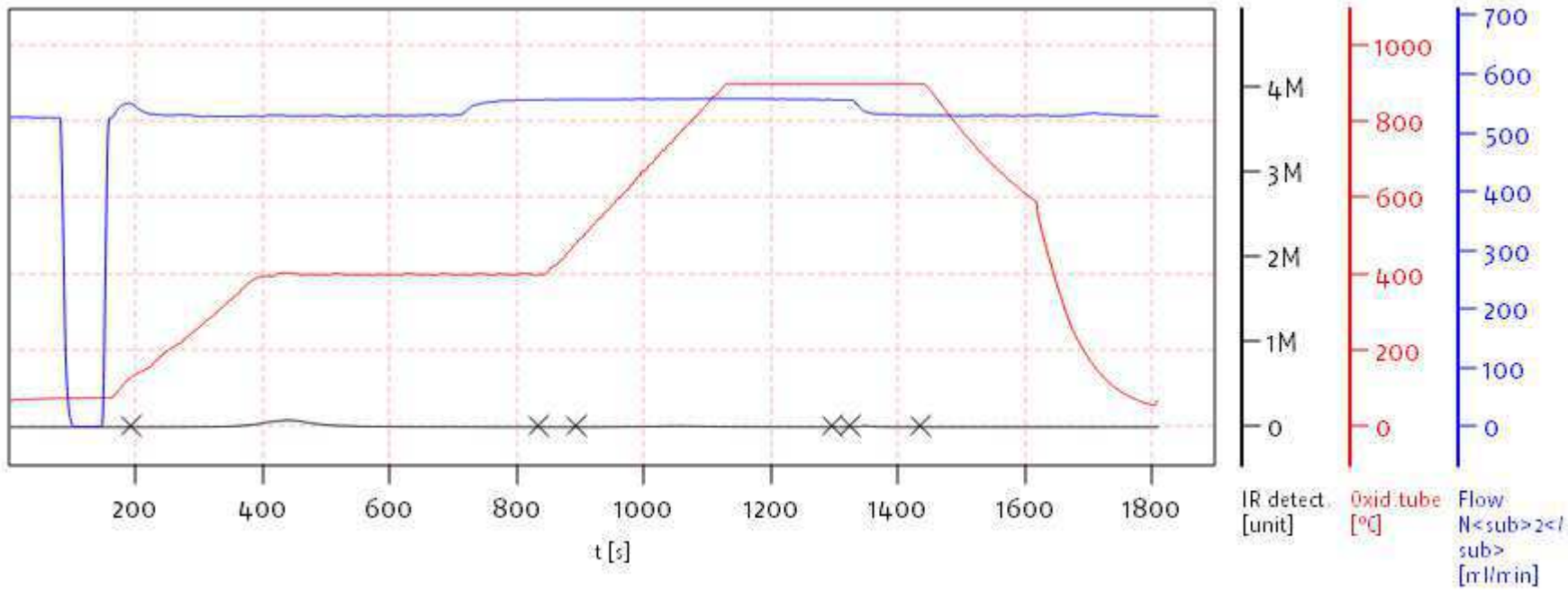
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
33	33	22L0473-02	602.50		CARBON	12/29/2022 6:42 AM	bl	0.077	336 916	0.084	0.000	11 911	56 956	0.077	0.008	0.9594	1.0000



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Access: soliTOC superuser

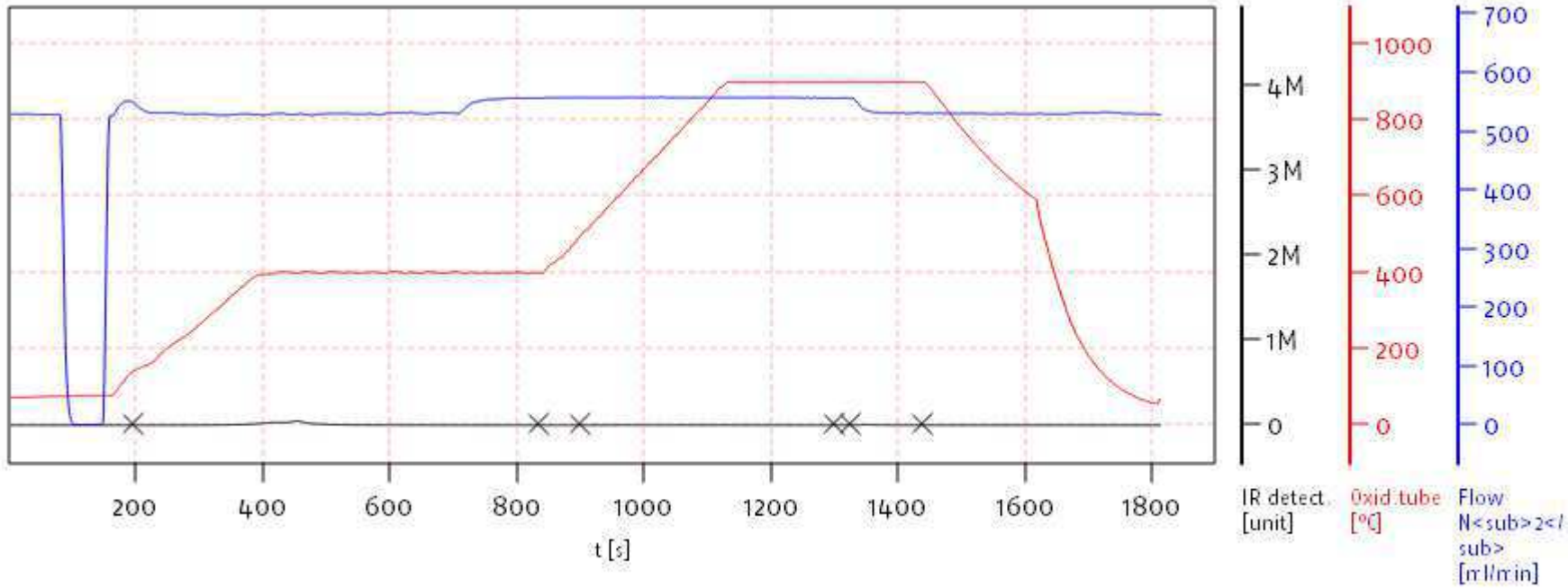
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
34	34	22L0473-03	518.70		CARBON	12/29/2022 7:12 AM	bl	0.036	150 749	0.036	0.000	6 582	10 982	0.036	0.000	0.9594	1.0000



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Serial No: 0300.181017
Mode CCC

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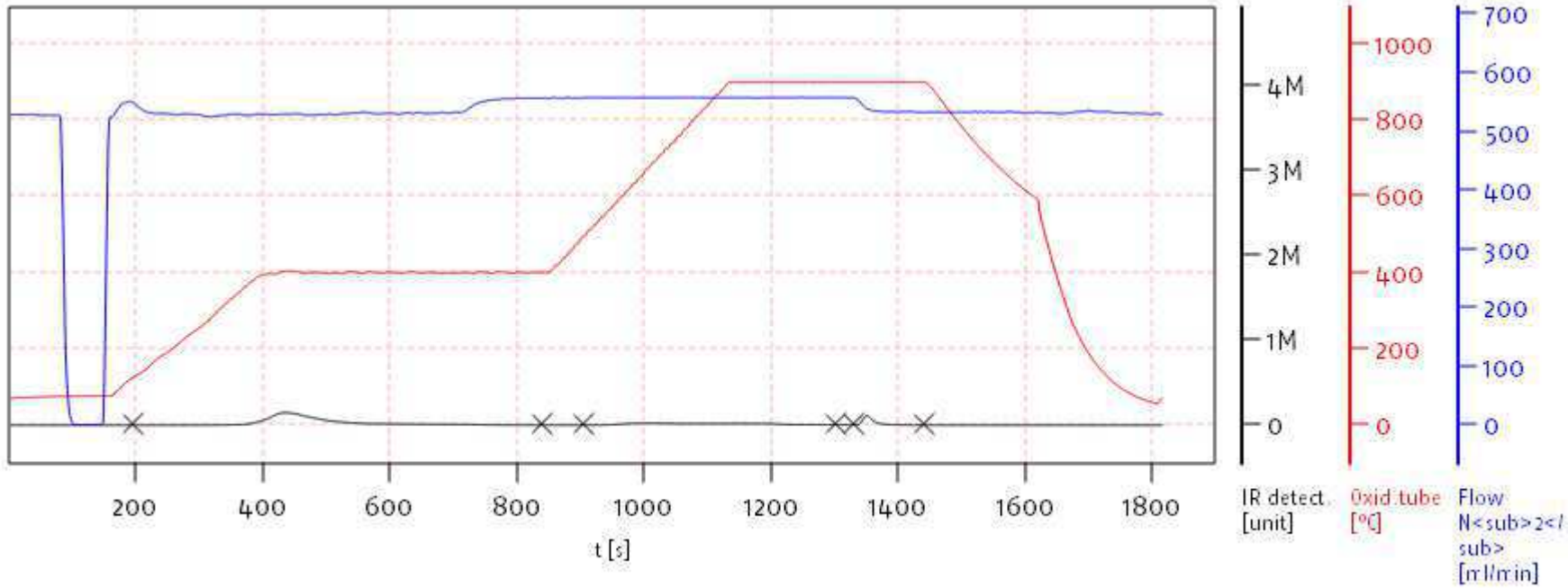
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
35	35	22L0473-04	510.20		CARBON	12/29/2022 7:43 AM	bl	0.188	608 799	0.243	0.019	88 153	205 537	0.170	0.054	0.9594	1.0000



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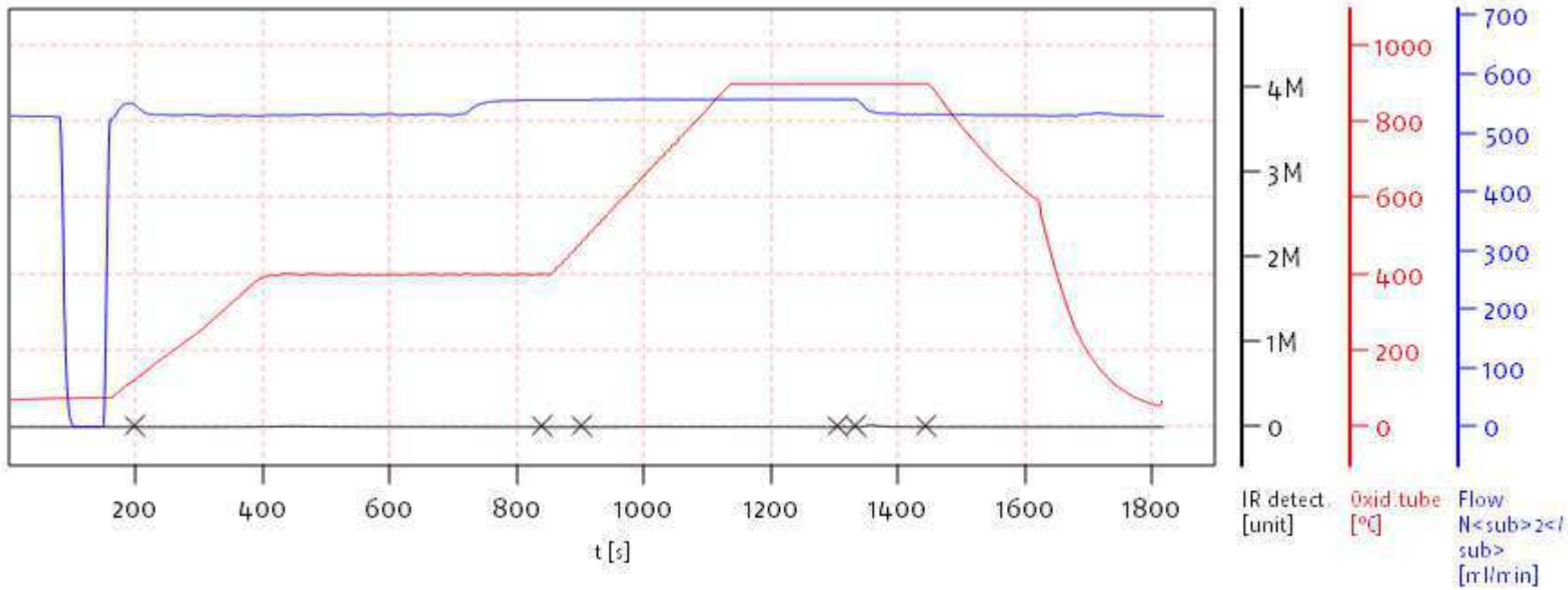
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
36	36	22L0473-05	580.50		CARBON	12/29/2022 8:14 AM	bl	0.005	45 087	0.006	0.000	22 282	29 927	0.005	0.001	0.9594	1.0000



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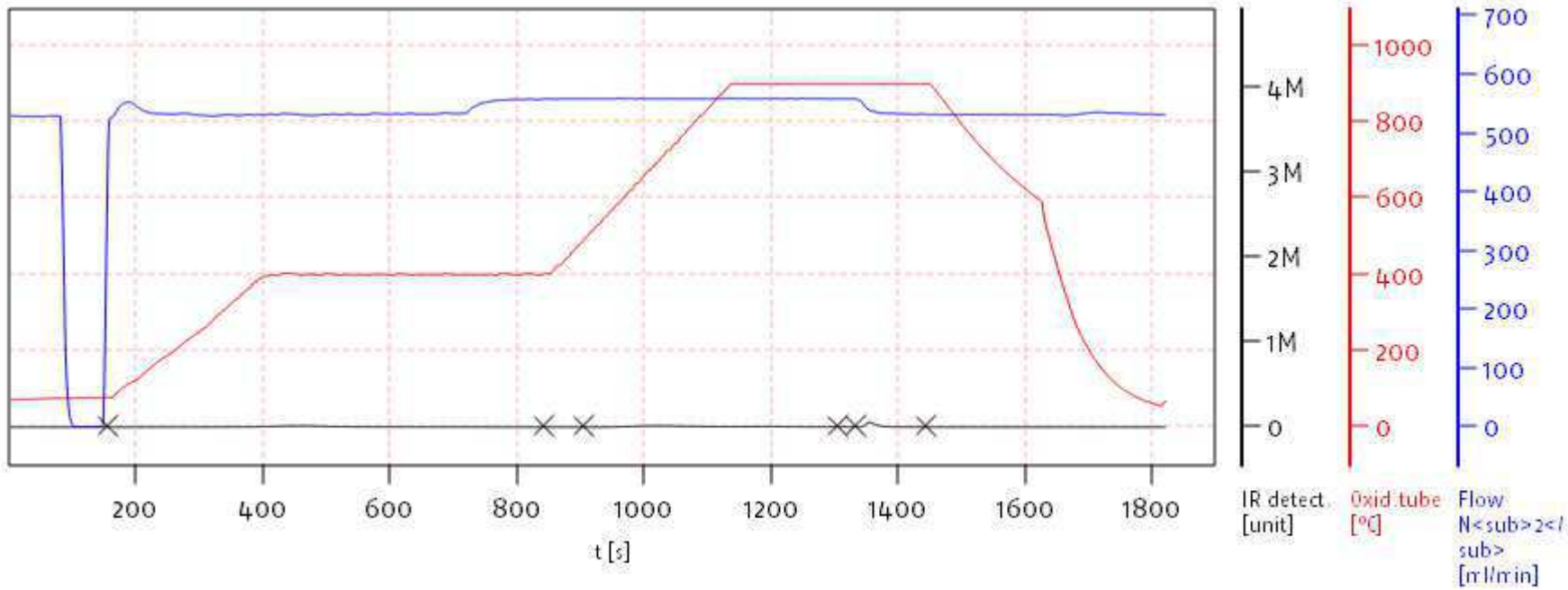
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
37	37	22L0473-06	510.20		CARBON	12/29/2022 8:44 AM	bl	0.021	81 154	0.043	0.006	44 751	97 425	0.016	0.022	0.9594	1.0000



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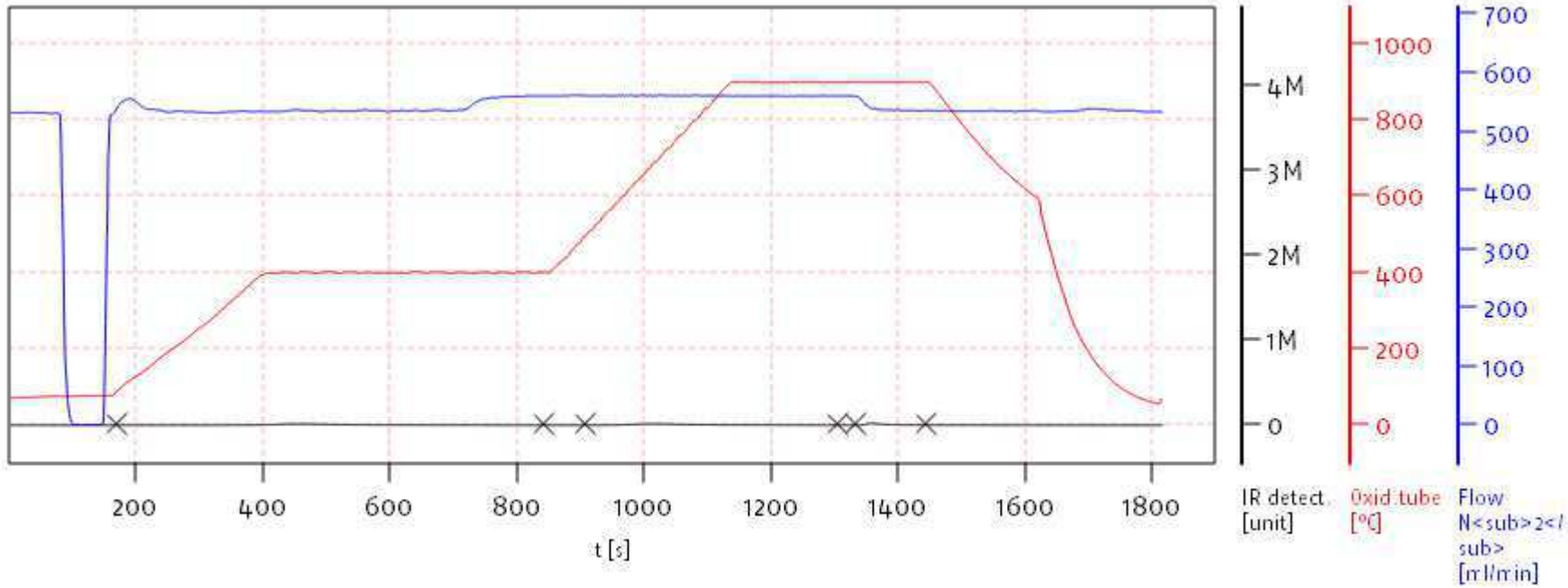
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
38	38	22L0473-07	539.20		CARBON	12/29/2022 9:15 AM	bl	0.015	79 645	0.027	0.000	27 321	70 453	0.015	0.013	0.9594	1.0000



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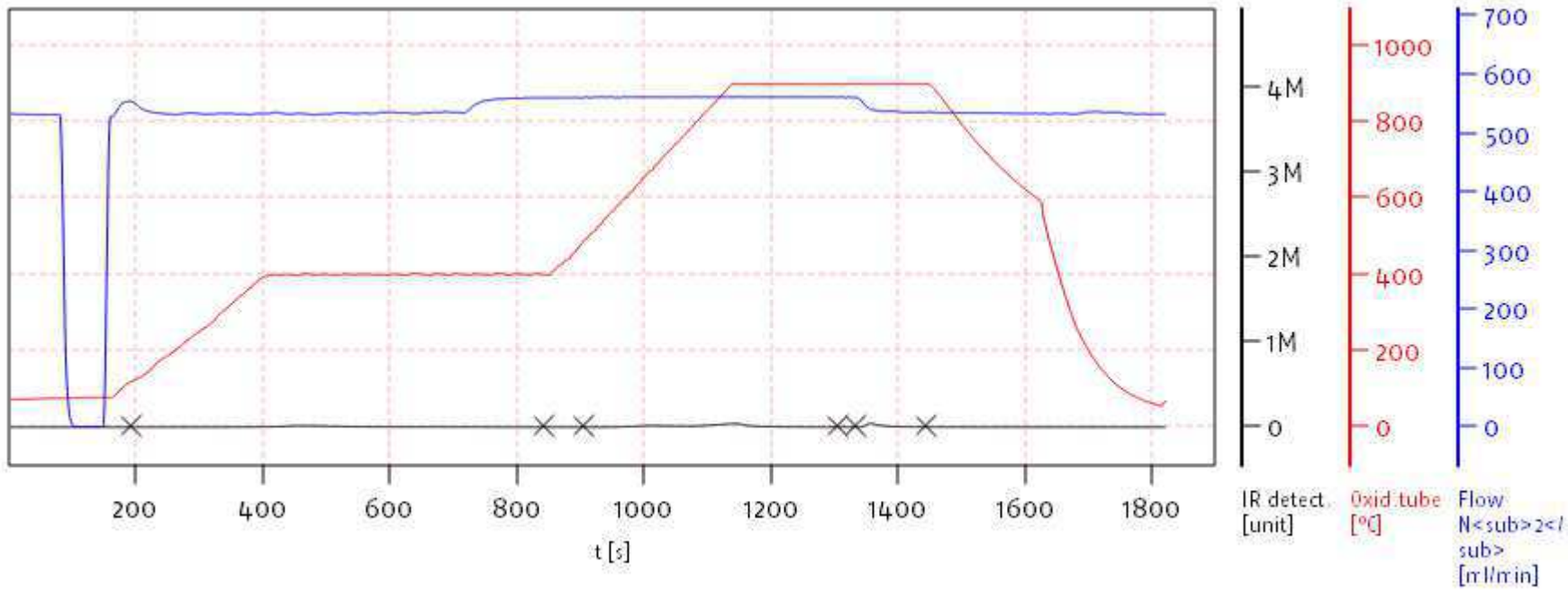
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
39	39	22L0473-08	656.50		CARBON	12/29/2022 9:46 AM	bl	0.018	82 729	0.049	0.005	47 366	160 533	0.013	0.032	0.9594	1.0000



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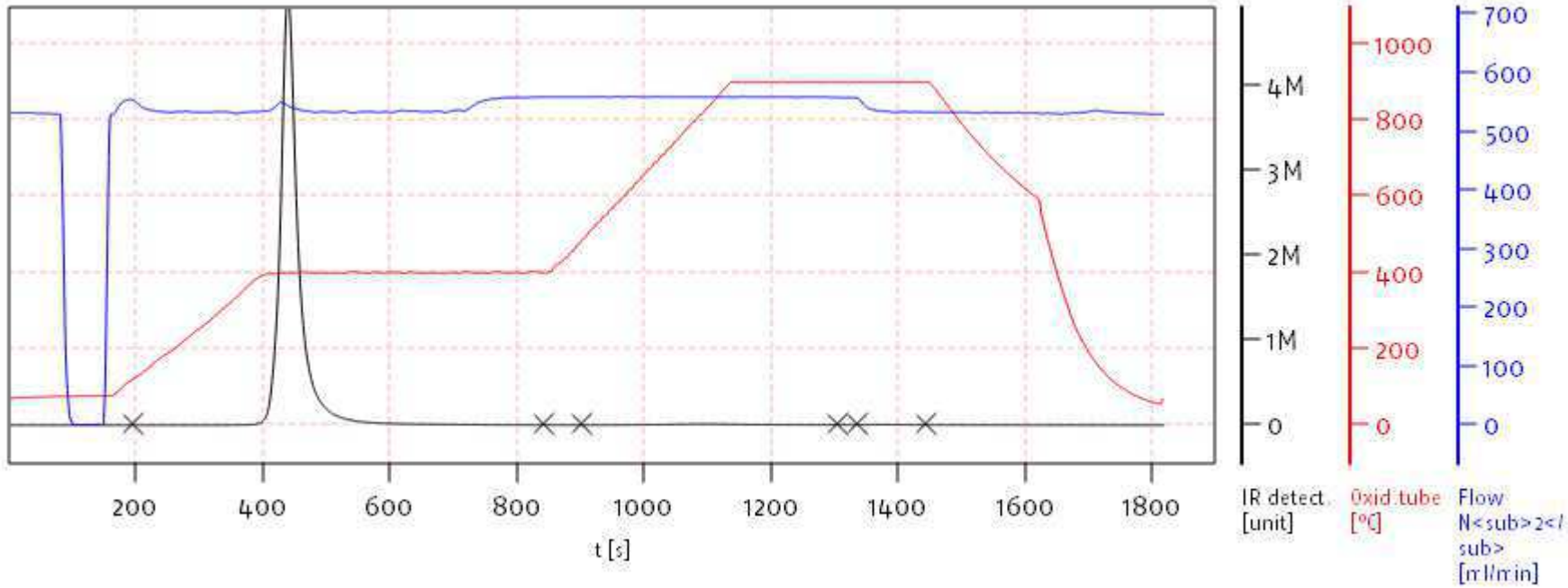
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
40	40	SKL0336-CCV3	20.70		CARBON	12/29/2022 10:16 AM	bl	44.803	6 270 918	45.289	0.000	19 363	91 414	44.803	0.485	0.9594	1.0000



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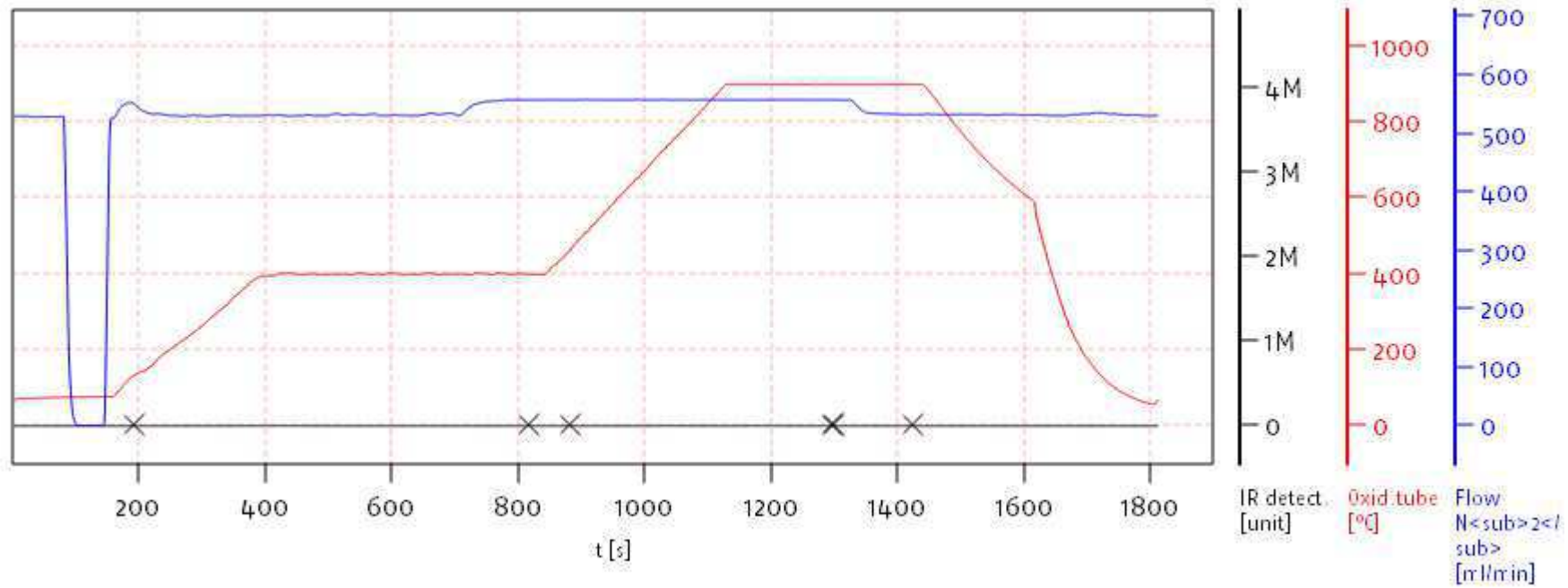
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
41	41	SKL0336-CCB3	510.40		CARBON	12/29/2022 10:47 AM	bl,C2u	0.000	8 103	0.000	0.000	1 725	9 839	0.000	0.000	0.9594	1.0000



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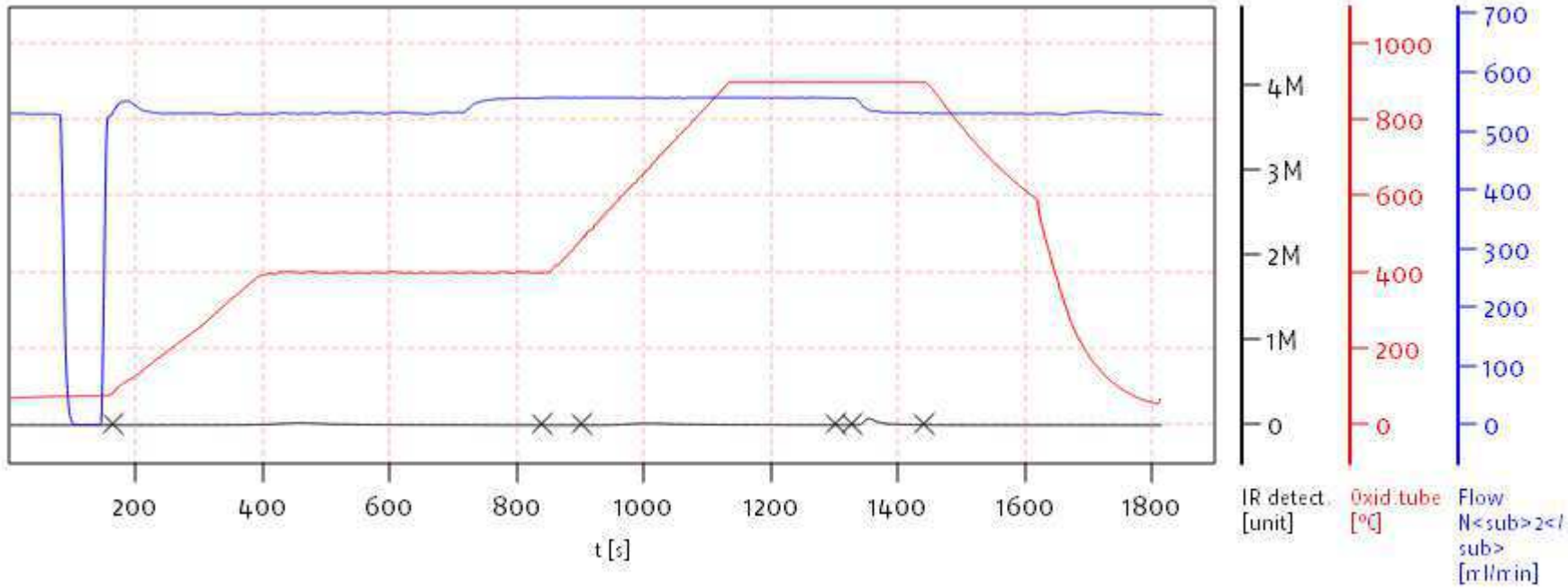
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
42	42	22L0473-09	660.10		CARBON	12/29/2022 11:18 AM	bl	0.037	129 314	0.053	0.014	84 922	96 508	0.023	0.016	0.9594	1.0000



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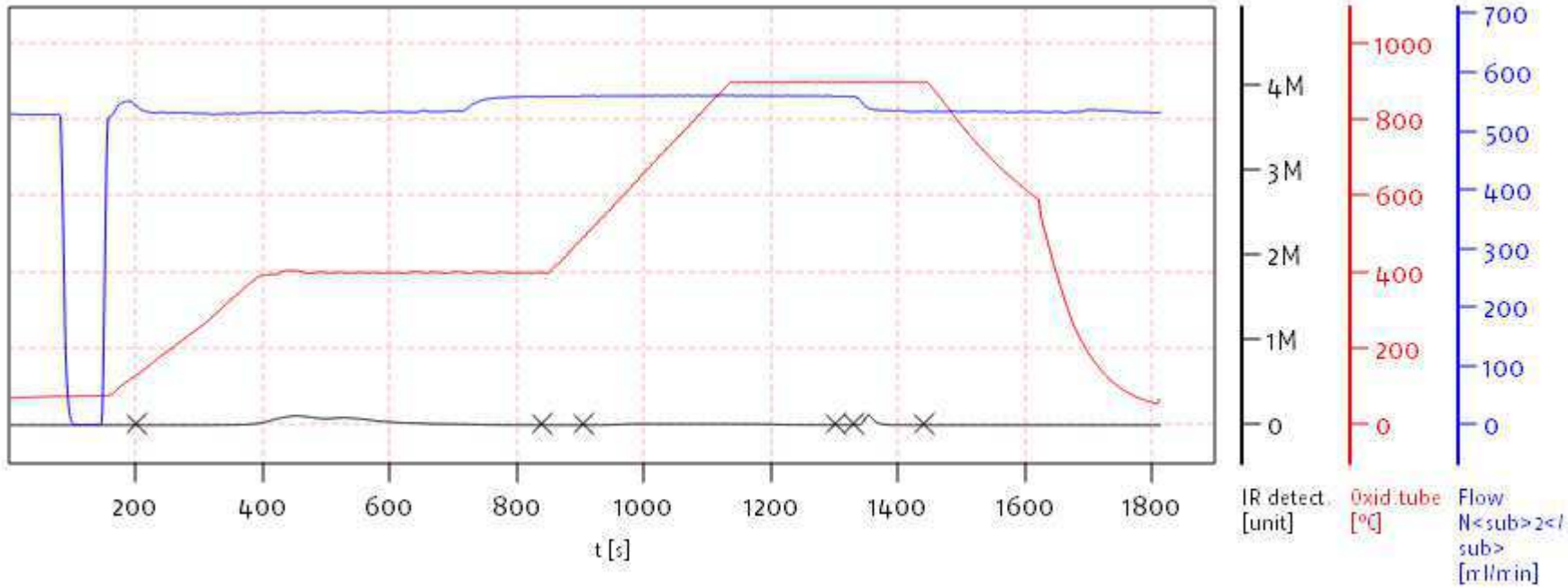
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
43	43	22L0473-10	532.20		CARBON	12/29/2022 11:48 AM	bl	0.206	705 498	0.238	0.016	82 130	137 333	0.189	0.032	0.9594	1.0000



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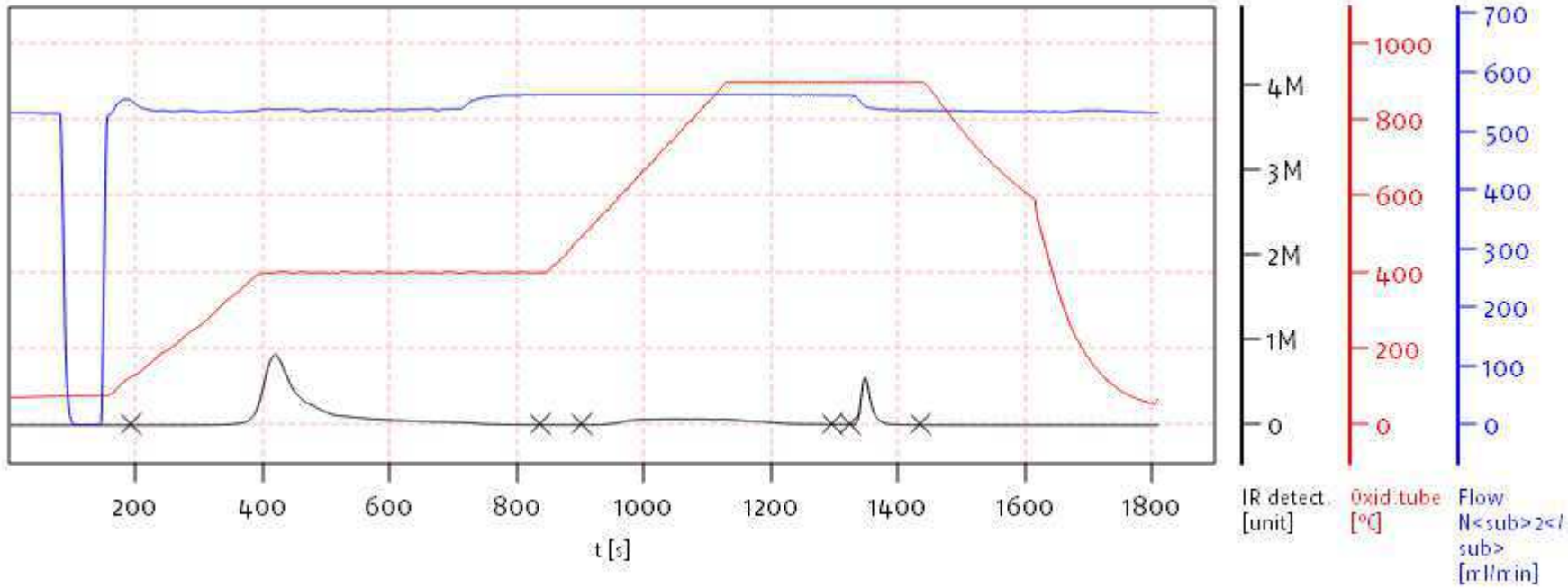
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
44	44	22L0473-11	518.70		CARBON	12/29/2022 12:19 PM	bl	0.809	2 467 152	0.990	0.110	395 819	632 832	0.699	0.181	0.9594	1.0000



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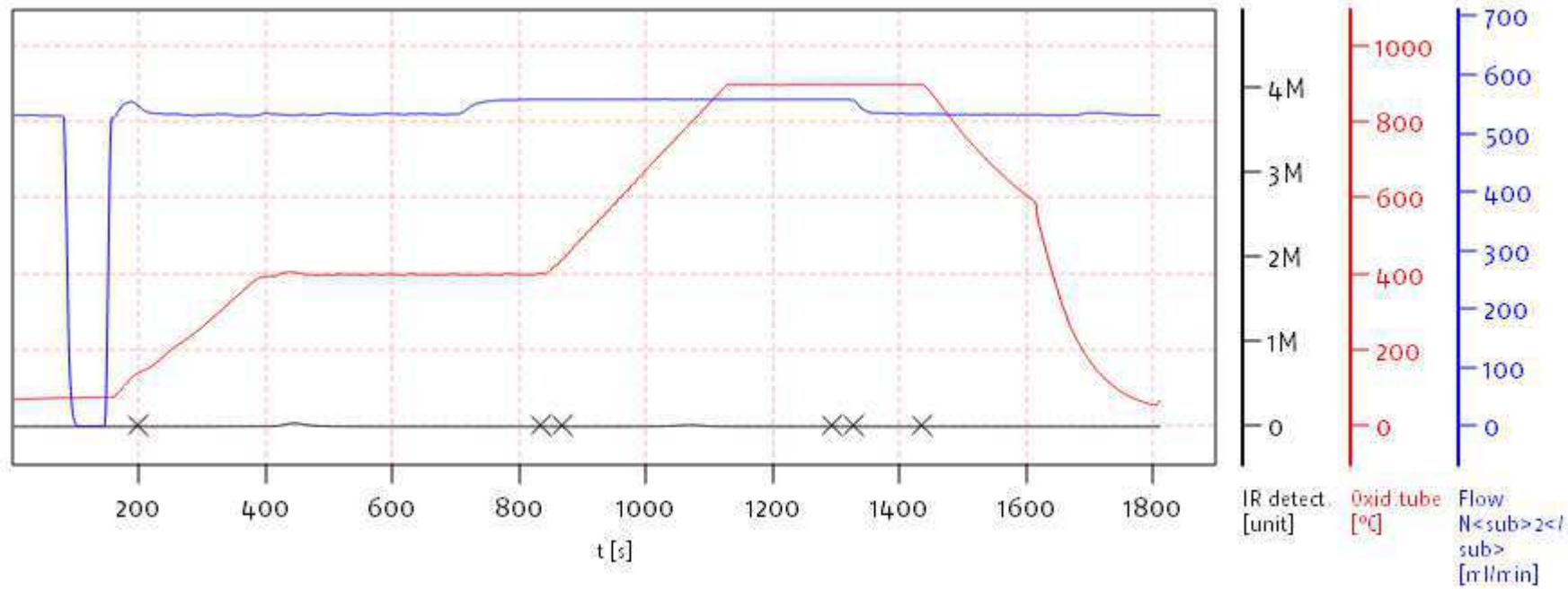
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
45	45	BKL0599-MRL1	542.10		CARBON	12/29/2022 12:49 PM	bl,C2u	0.014	77 667	0.017	0.000	223	38 532	0.014	0.003	0.9594	1.0000



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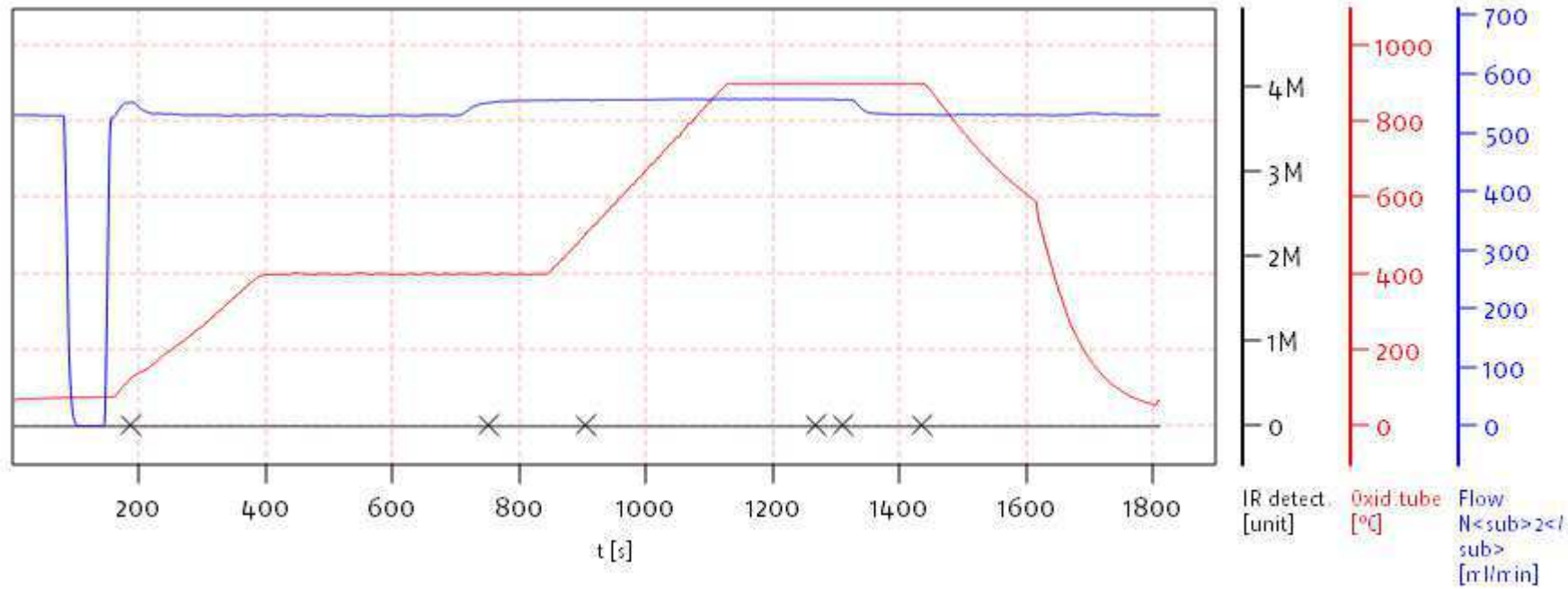
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
46	46	BKL0599-BLK1	511.70		CARBON	12/29/2022 1:20 PM	bl,C3u,C2u	0.000	6 122	0.000	0.000	351	2 112	0.000	0.000	0.9594	1.0000



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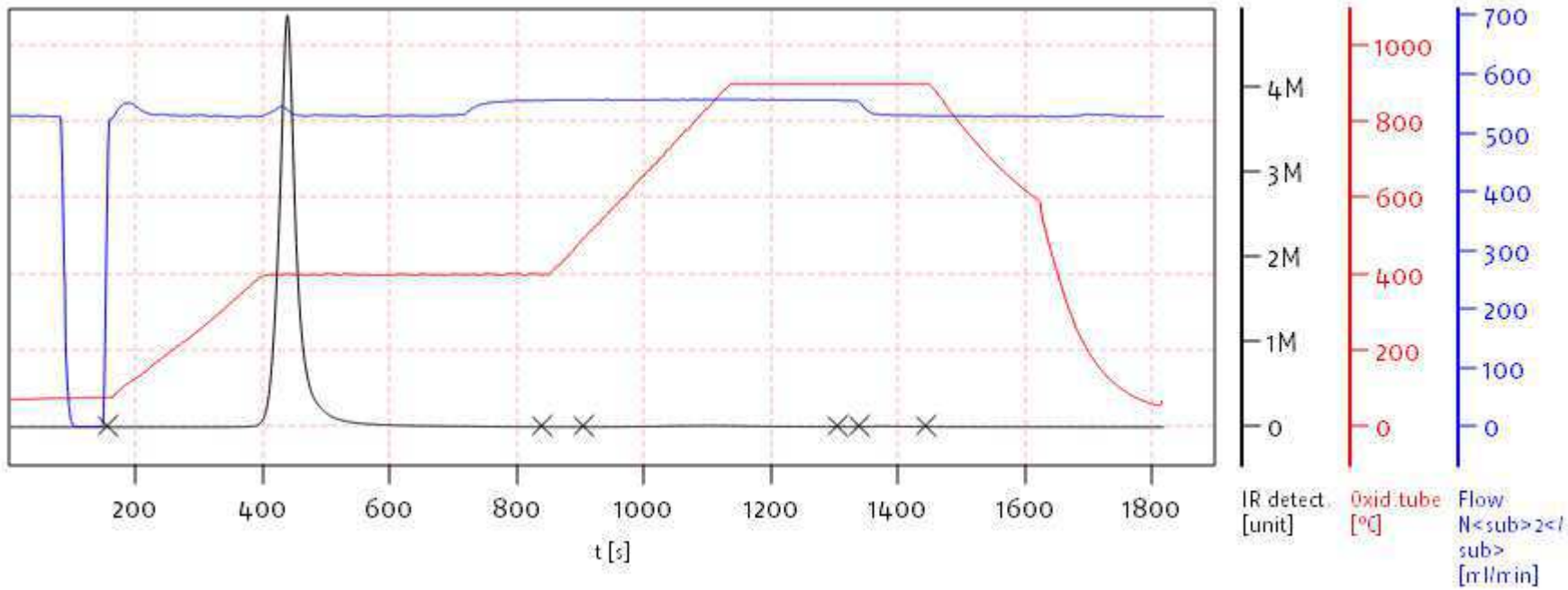
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
47	47	BKL0599-BS1	20.20		CARBON	12/29/2022 1:51 PM	bl	44.477	6 075 734	45.184	0.000	25 270	118 801	44.477	0.707	0.9594	1.0000



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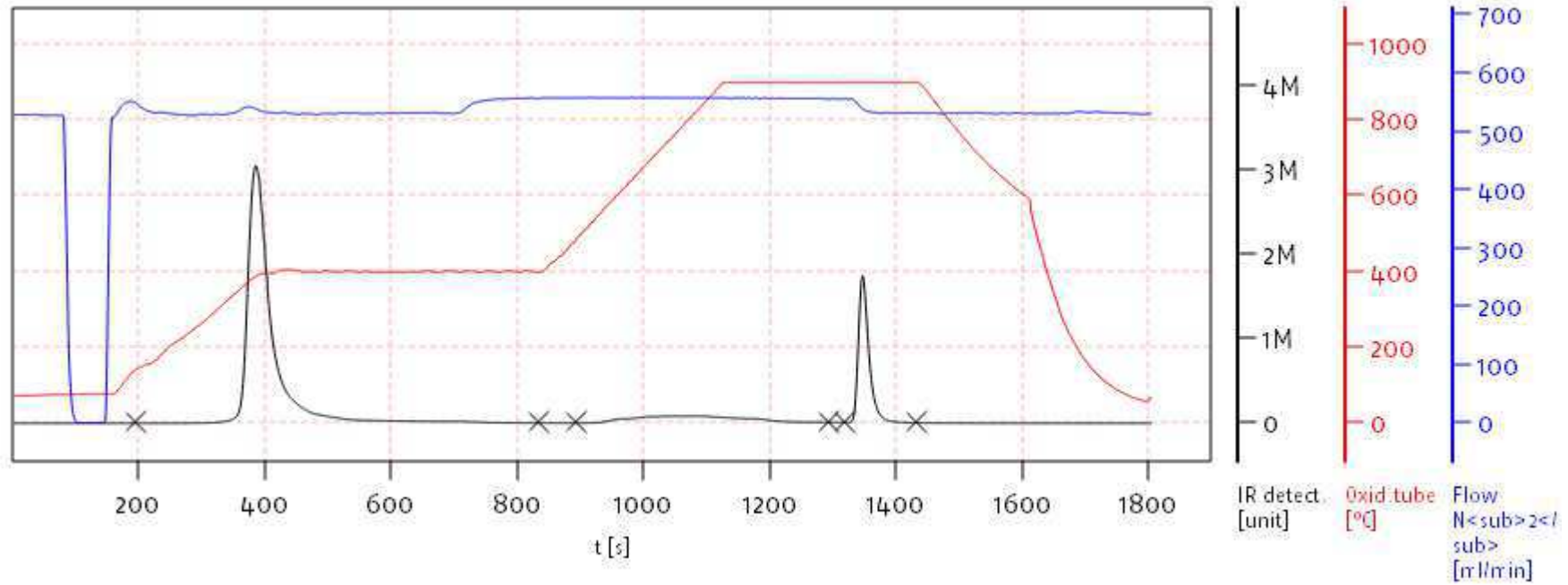
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
48	48	BKL0599-SRM1	305.50		CARBON	12/29/2022 2:21 PM	bl	3.038	4 961 714	3.387	0.638	1 286 356	716 864	2.399	0.350	0.9594	1.0000



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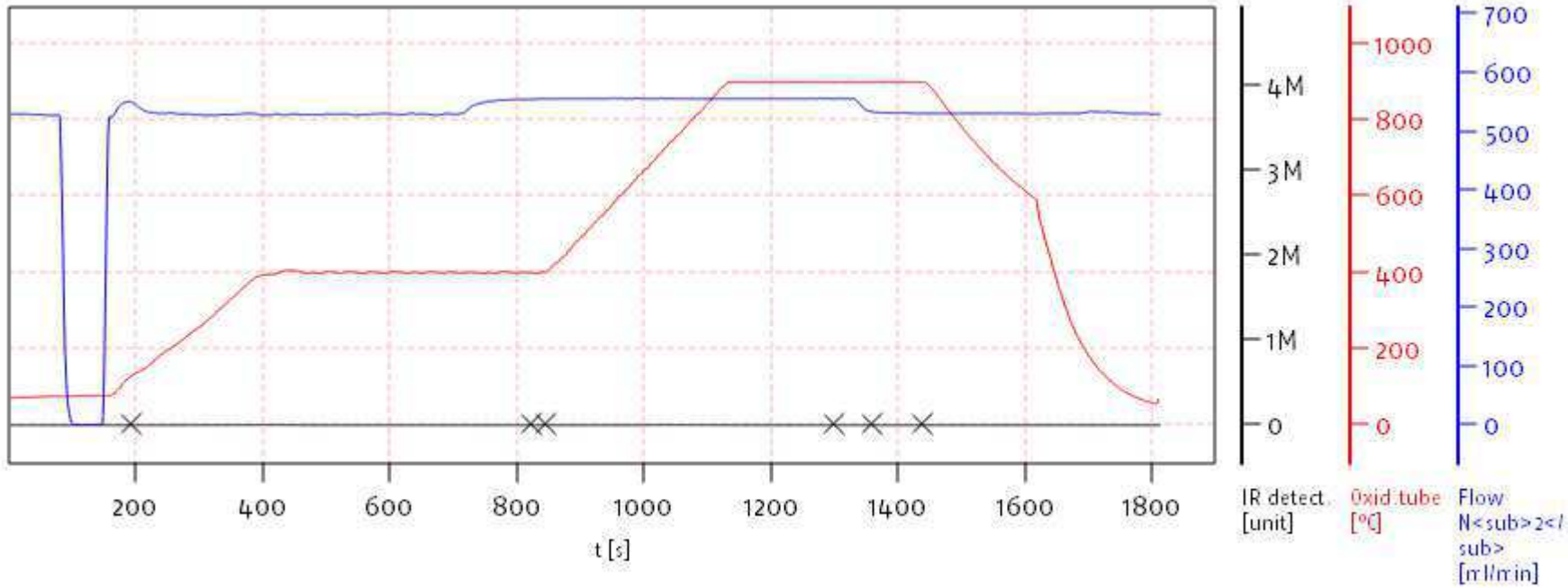
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
49	49	BLANK	1.00		CARBON	12/29/2022 2:52 PM	bl	0.000	14 067	0.000	0.000	385	12 446	0.000	0.000	0.9594	1.0000



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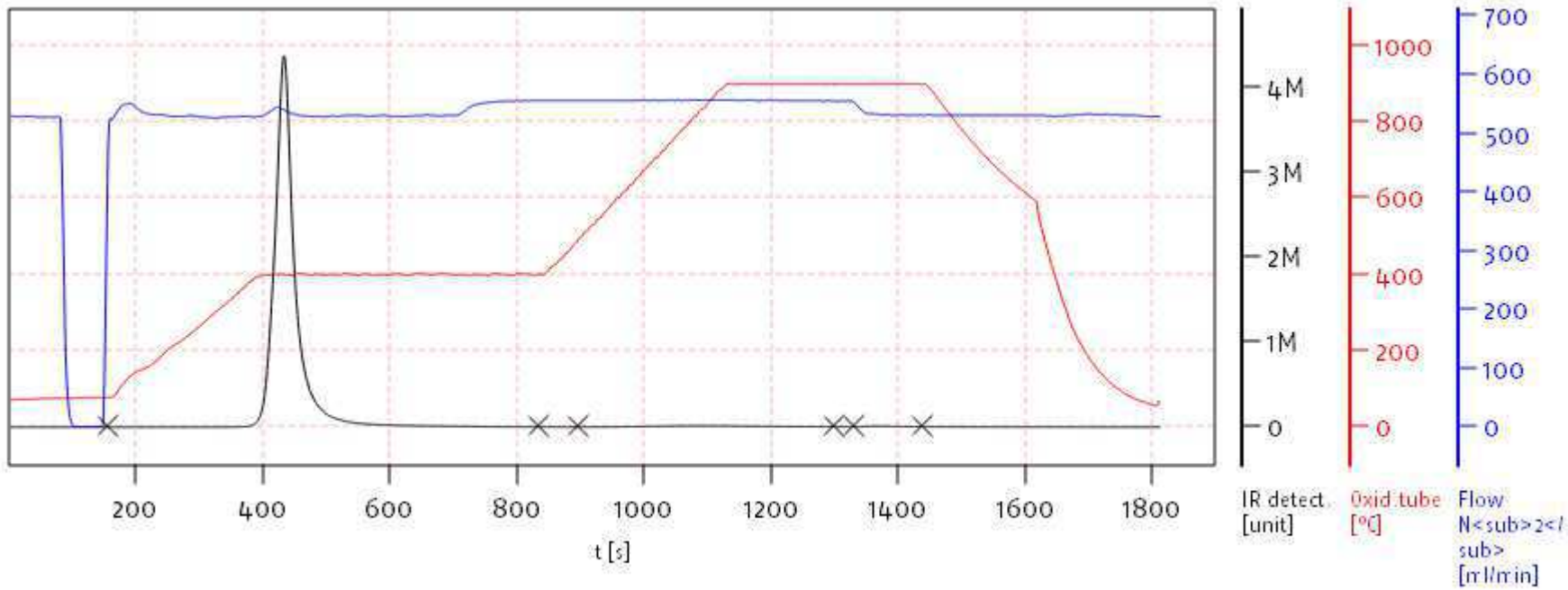
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
50	50	Dfactor	20.30		CARBON	12/29/2022 3:22 PM	bl	44.488	6 071 553	45.253	0.042	32 074	126 811	44.446	0.765	0.9642	1.0000



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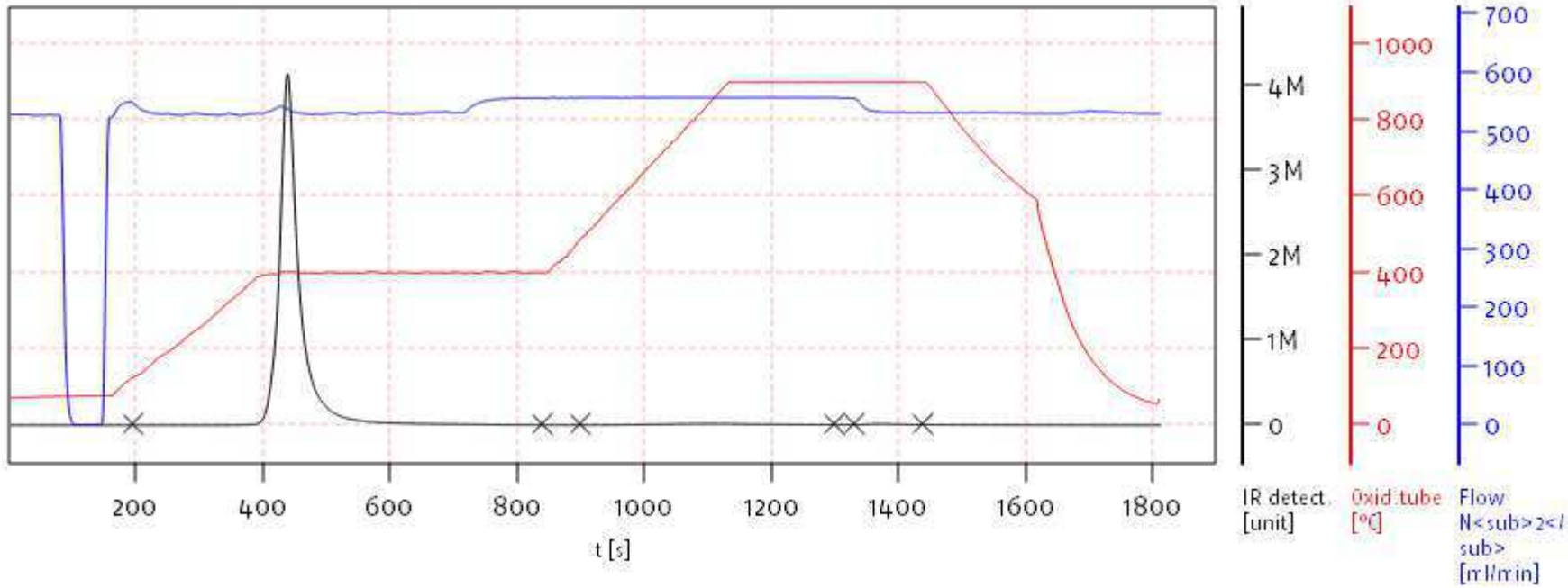
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
51	51	Dfactor	19.40		CARBON	12/29/2022 3:53 PM	bl	44.532	5 648 968	45.396	0.086	37 352	134 792	44.446	0.864	0.9907	1.0000



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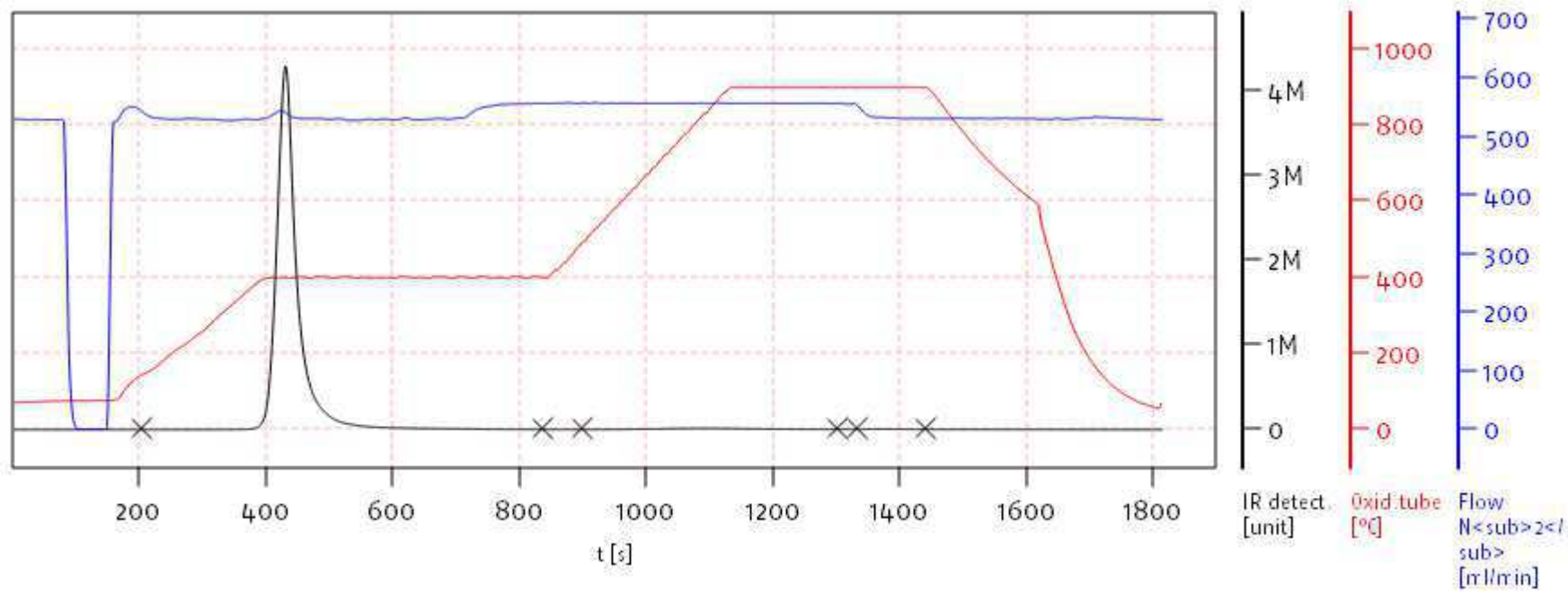
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
52	52	SKL0336-CCV4	19.90		CARBON	12/29/2022 4:24 PM	bl	45.486	6 008 854	46.126	0.000	19 204	108 821	45.486	0.640	0.9774	1.0000



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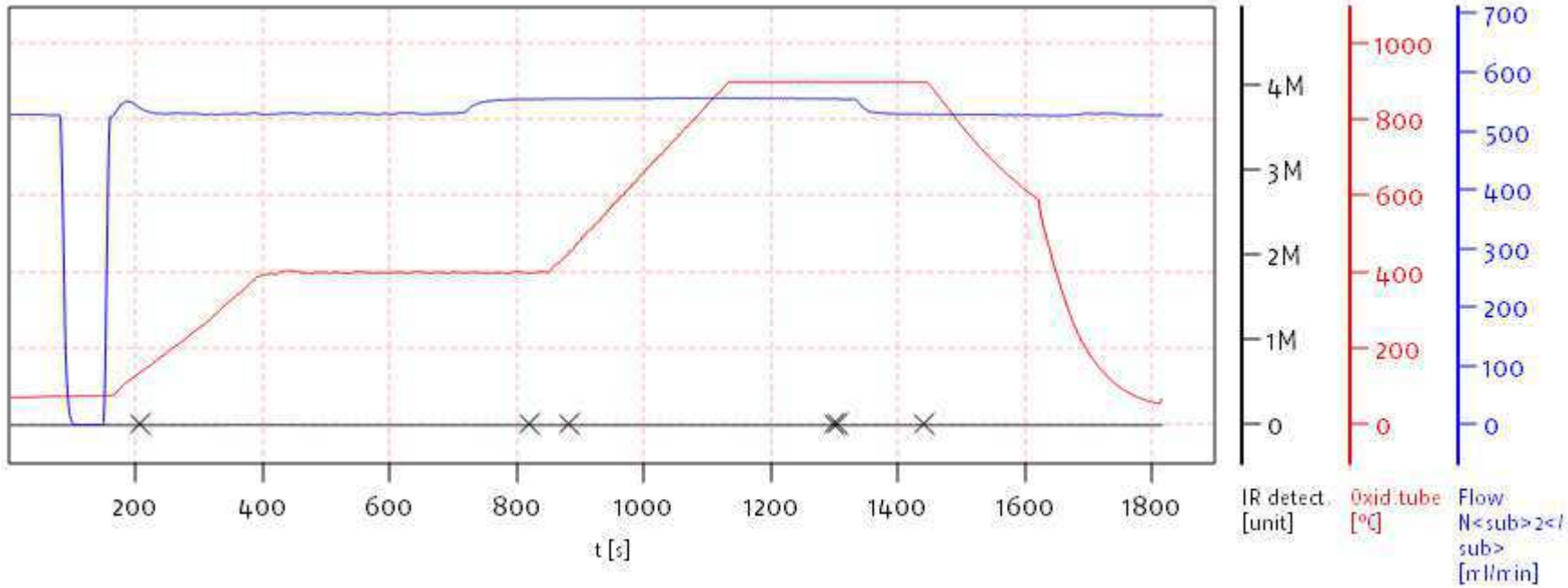
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
53	53	SKL0336-CCB4	515.10		CARBON	12/29/2022 4:54 PM	bl,C3u,C2u	0.000	8 905	0.000	0.000	1 135	209	0.000	0.000	0.9774	1.0000



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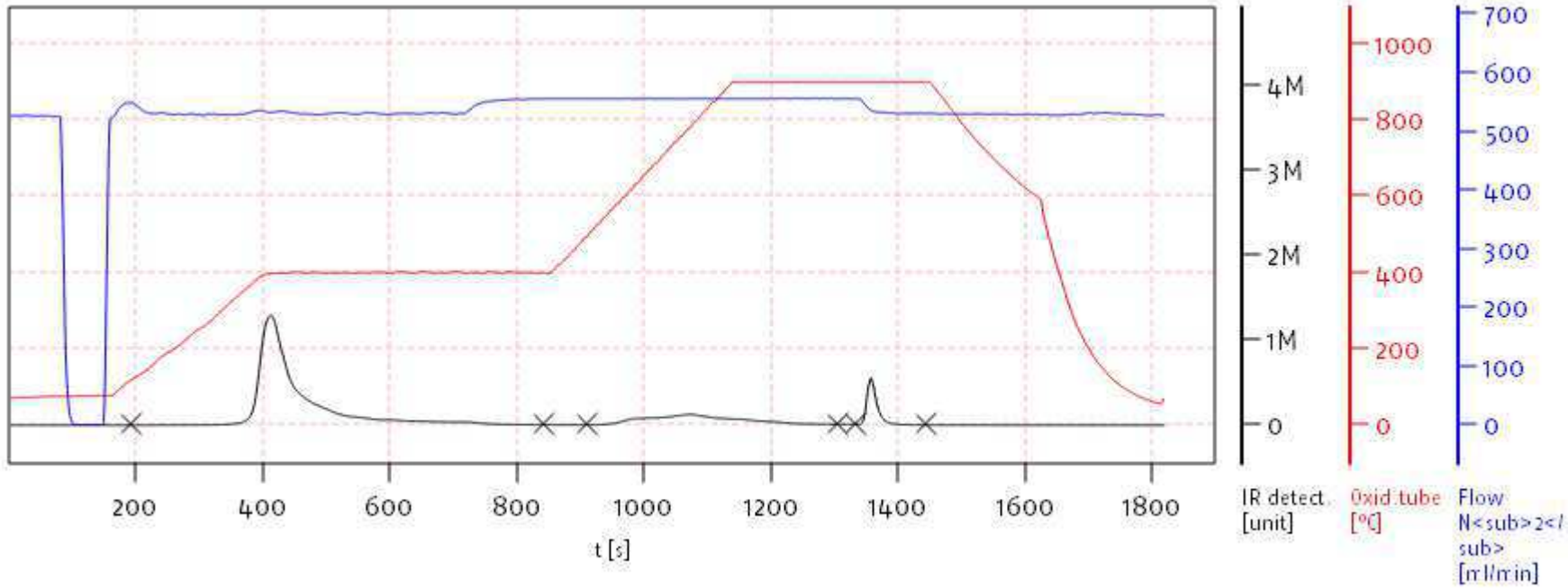
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
54	54	22L0383-01	530.50		CARBON	12/29/2022 5:25 PM	bl	1.051	3 340 156	1.287	0.106	388 705	835 873	0.945	0.236	0.9774	1.0000



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Access: soliTOC superuser

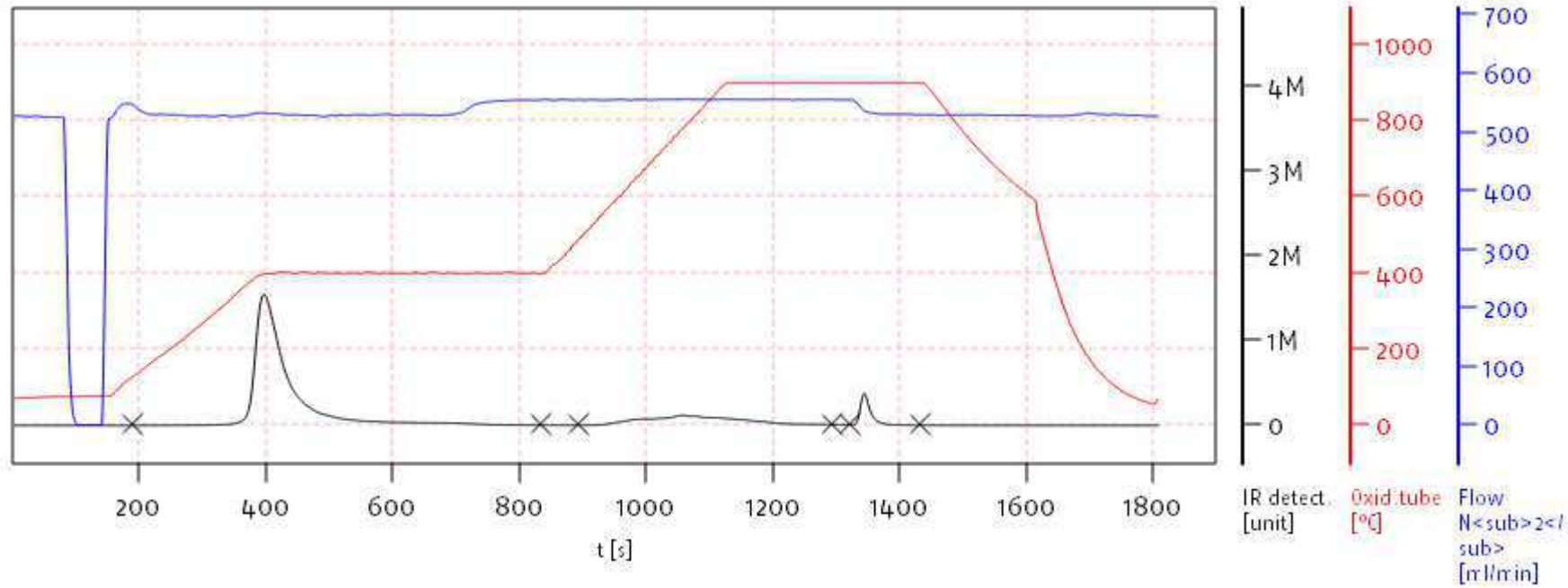
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
55	55	BKL0599-DUP1	526.90		CARBON	12/29/2022 5:56 PM	bl	1.054	3 447 169	1.279	0.072	270 814	793 040	0.982	0.225	0.9774	1.0000



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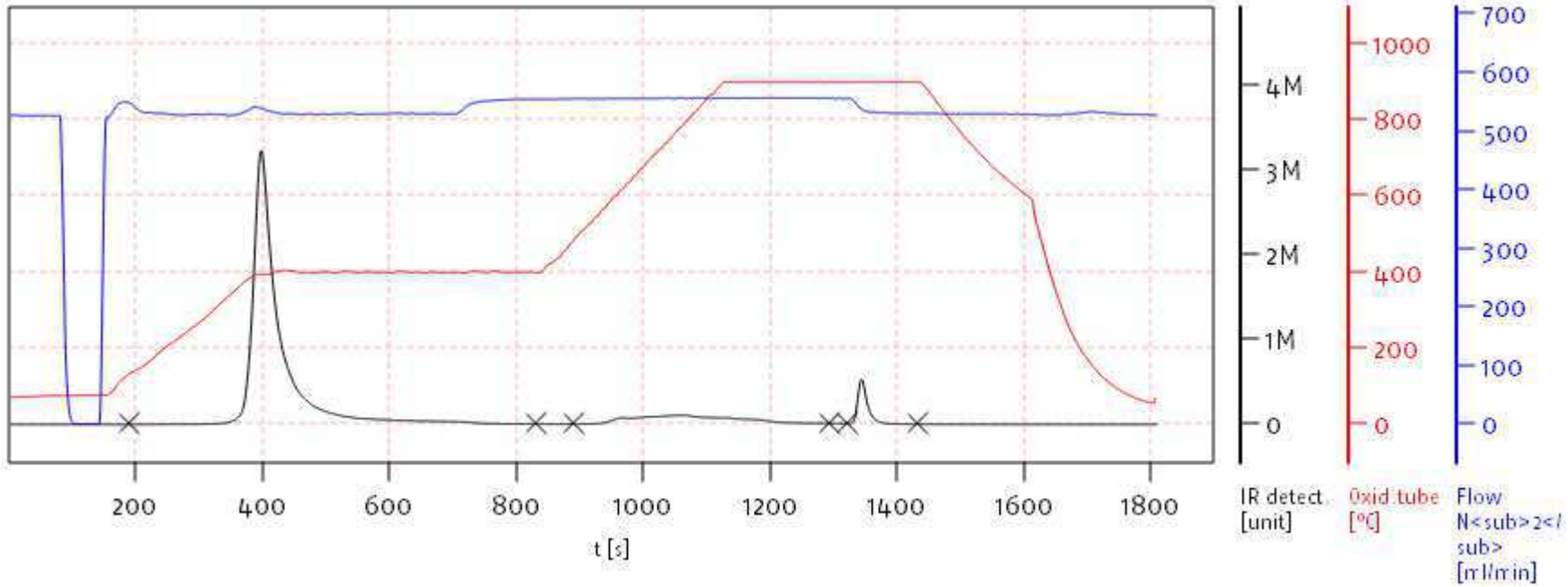
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
56	56	BKL0599-MS1	514.40	0.0077	CARBON	12/29/2022 6:26 PM	bl	1.761	5 663 480	2.005	0.103	368 136	837 398	1.658	0.244	0.9774	1.0000



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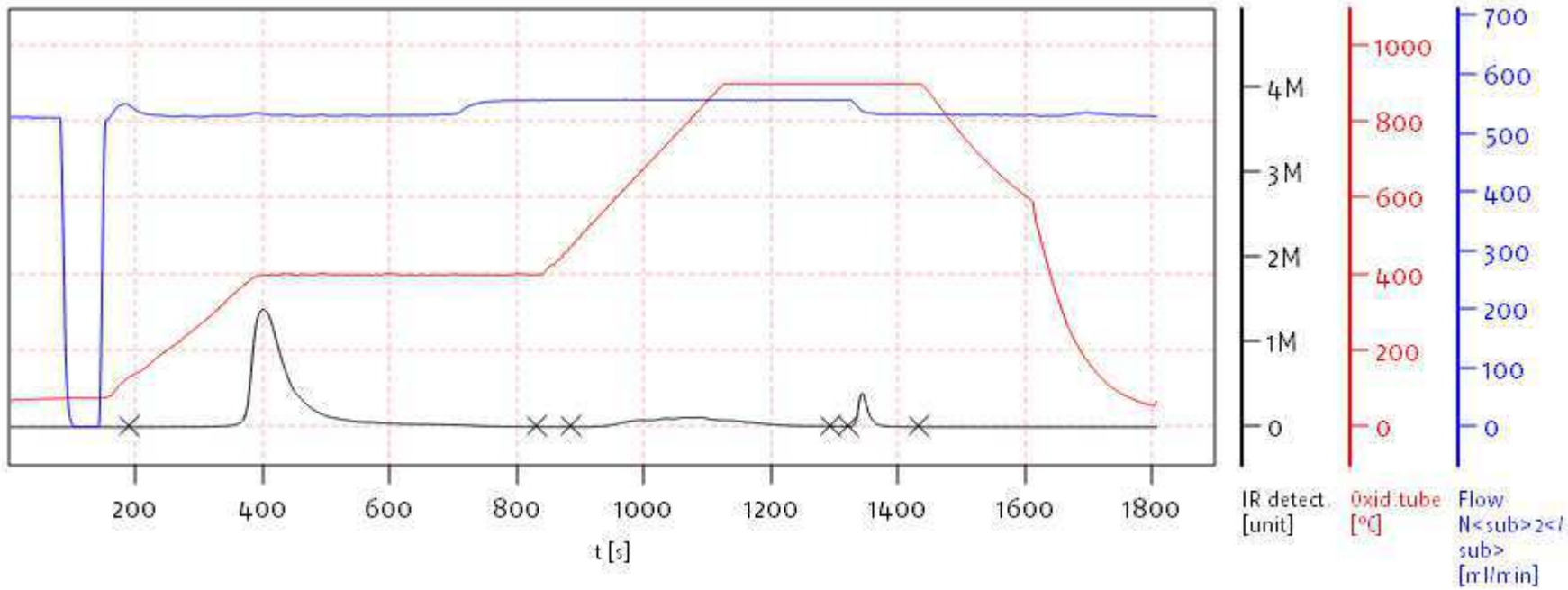
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
57	57	22L0383-02	514.70		CARBON	12/29/2022 6:57 PM	bl	1.141	3 645 618	1.376	0.077	283 261	808 295	1.064	0.235	0.9774	1.0000



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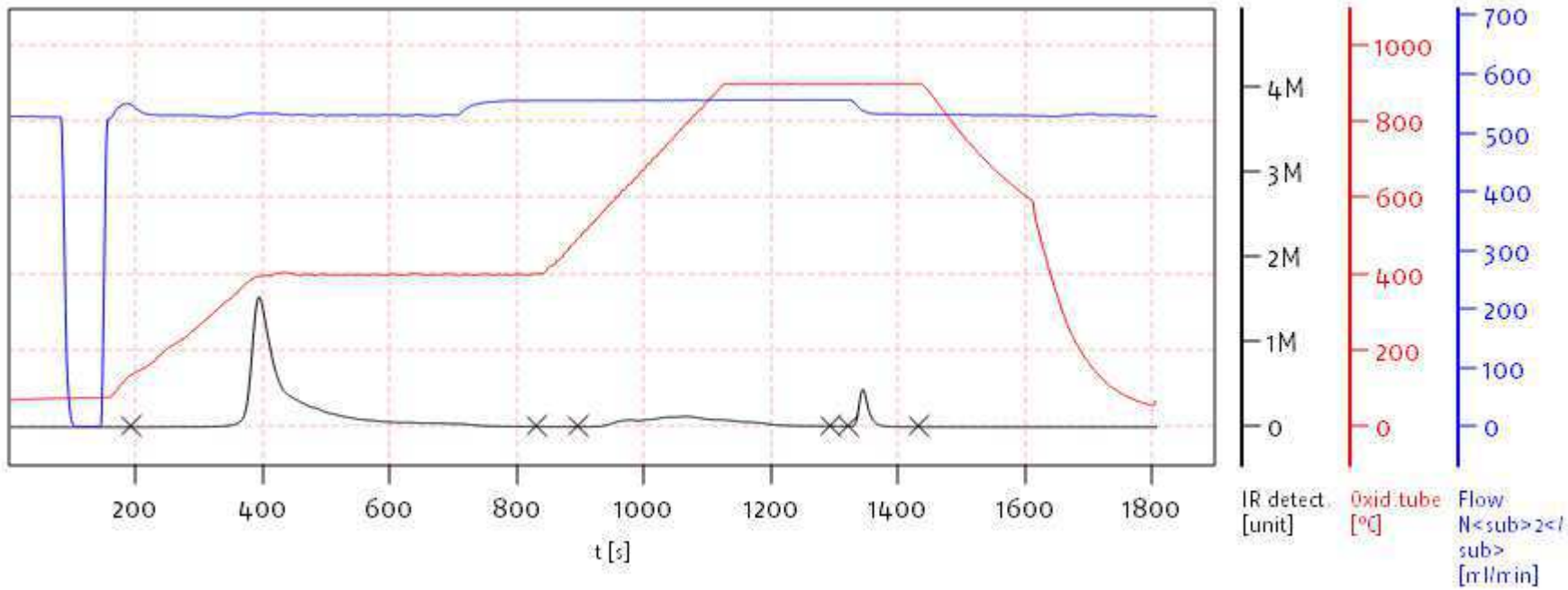
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
58	58	22L0383-03	521.30		CARBON	12/29/2022 7:27 PM	bl	1.085	3 485 611	1.339	0.081	300 520	879 129	1.004	0.253	0.9774	1.0000



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Balance: BAL3
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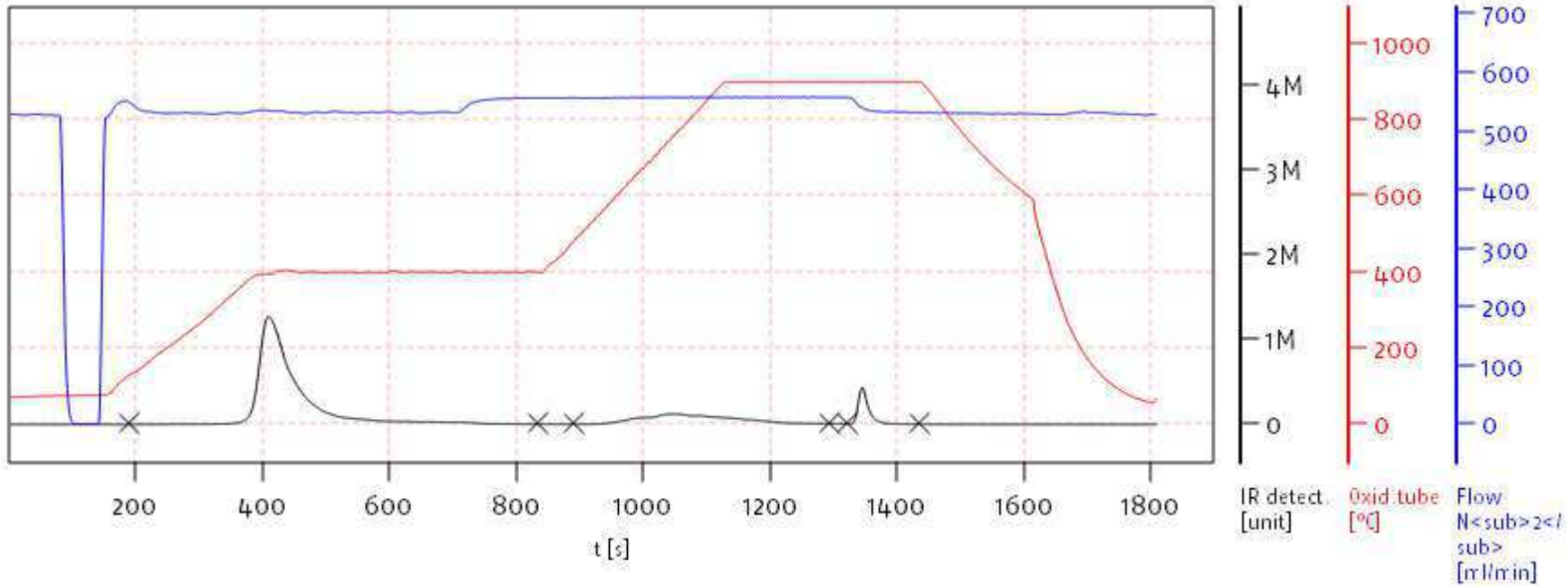
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
59	59	22L0383-04	533.60		CARBON	12/29/2022 7:58 PM	bl	0.977	3 174 085	1.204	0.085	317 850	808 806	0.893	0.227	0.9774	1.0000



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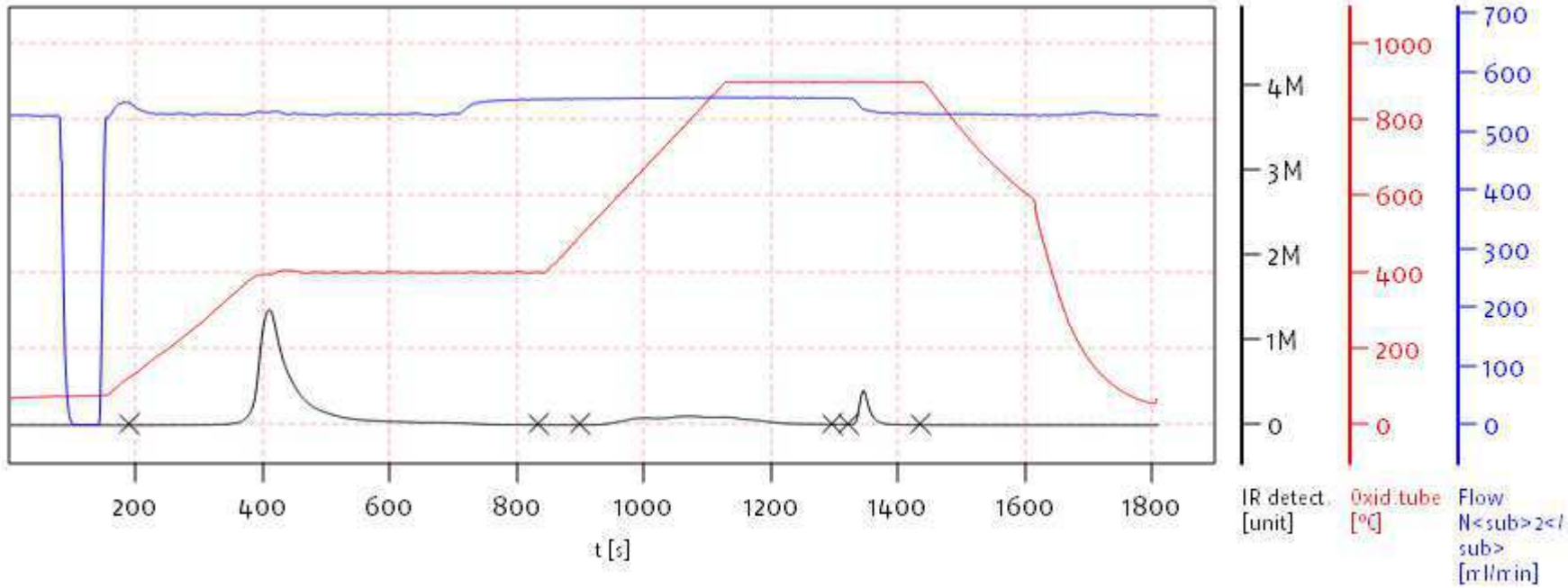
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
60	60	22L0383-05	512.90		CARBON	12/29/2022 8:28 PM	bl	1.019	3 208 439	1.256	0.081	293 878	812 113	0.939	0.237	0.9774	1.0000



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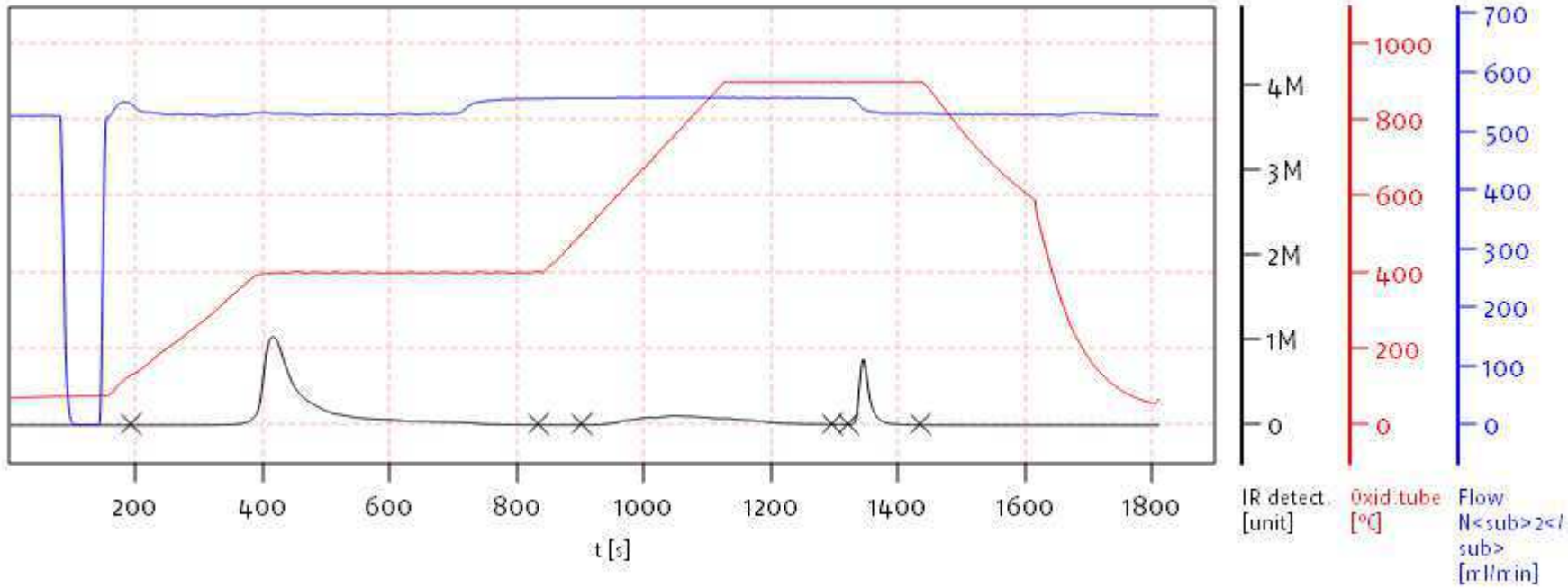
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
61	61	22L0383-06	512.90		CARBON	12/29/2022 8:59 PM	bl	0.975	2 792 391	1.208	0.160	555 017	796 339	0.816	0.232	0.9774	1.0000



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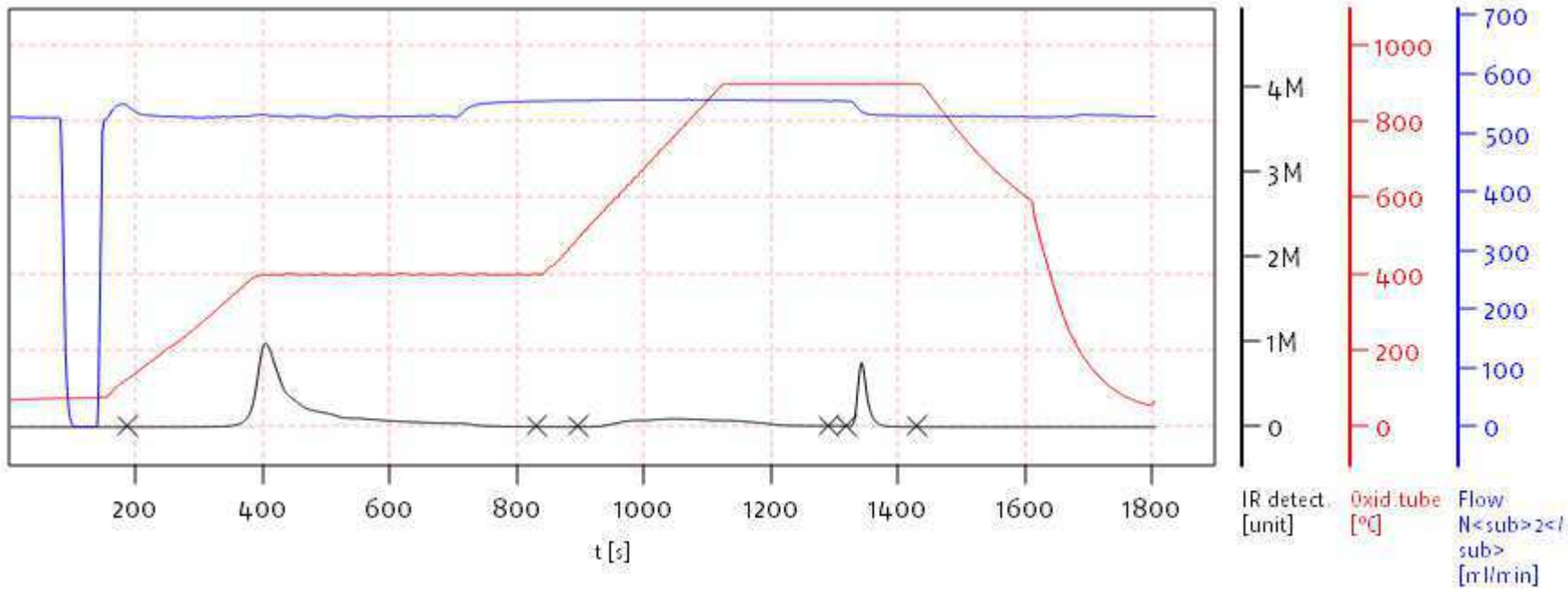
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
62	62	22L0383-07	505.70		CARBON	12/29/2022 9:29 PM	bl	0.962	2 751 206	1.197	0.147	505 449	794 926	0.815	0.235	0.9774	1.0000



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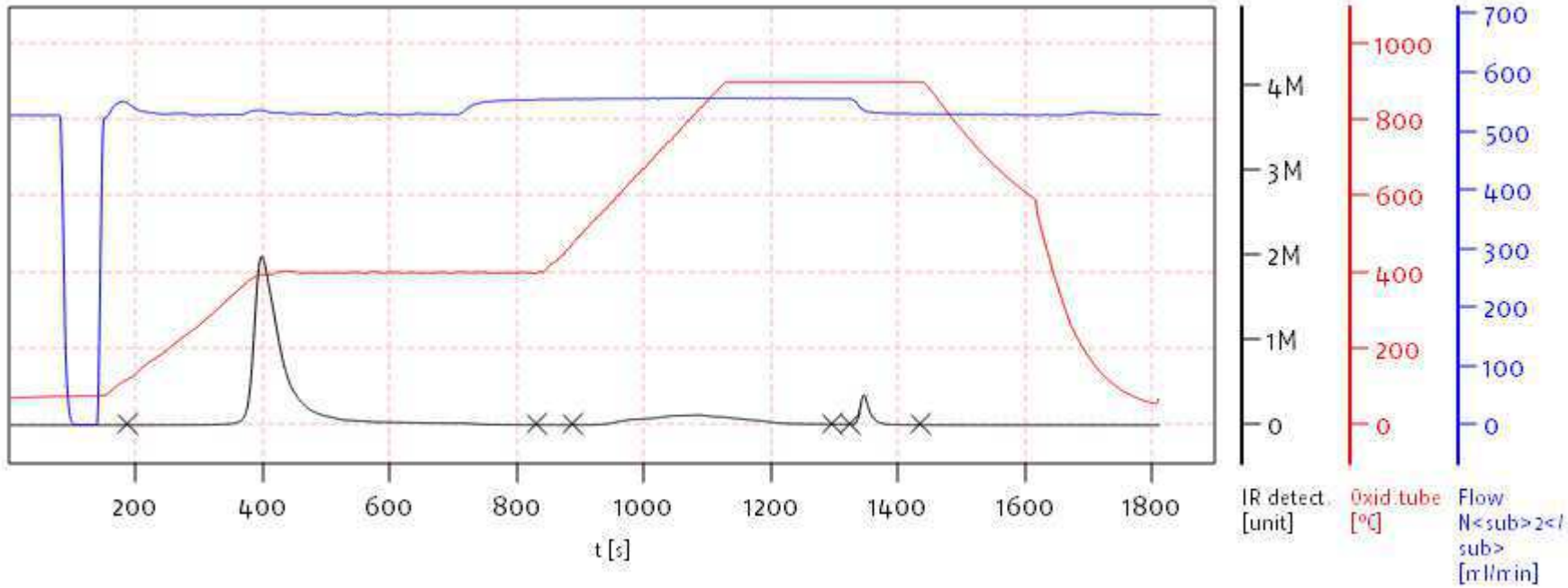
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
63	63	22L0383-08	550.00		CARBON	12/29/2022 10:00 PM	bl	1.136	3 931 260	1.369	0.062	245 905	854 228	1.074	0.233	0.9774	1.0000



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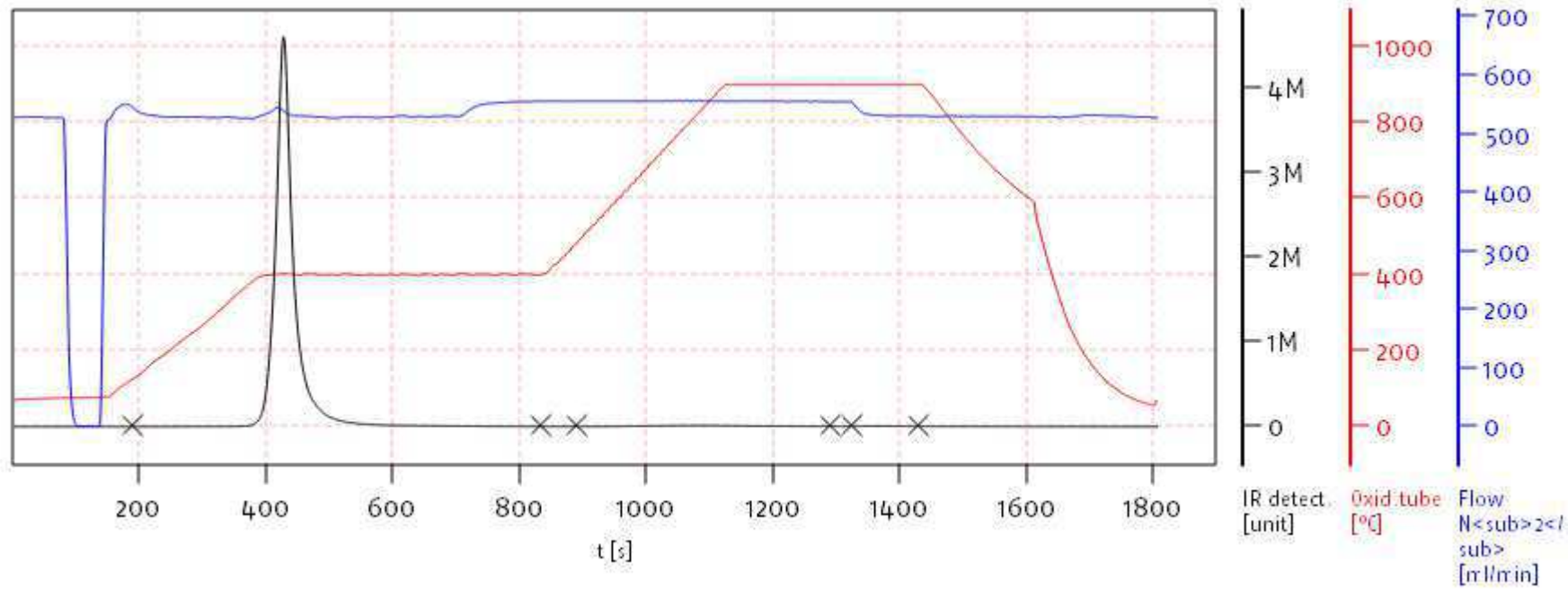
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
64	64	SKL0336-CCV5	19.20		CARBON	12/29/2022 10:30 PM	bl	45.251	5 768 684	45.852	0.000	20 849	101 047	45.251	0.601	0.9774	1.0000



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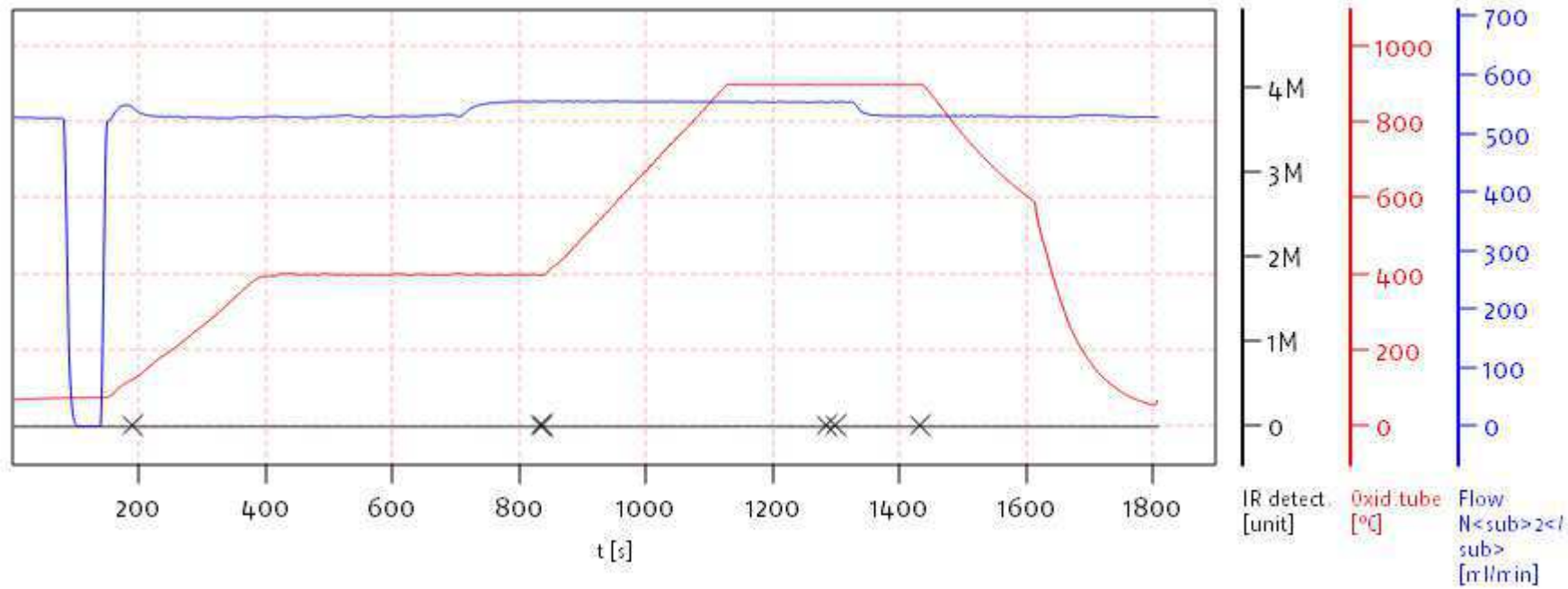
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
65	65	SKL0336-CCB5	526.20		CARBON	12/29/2022 11:01 PM	bl,C2u	0.000	5 957	0.000	0.000	963	7 715	0.000	0.000	0.9774	1.0000



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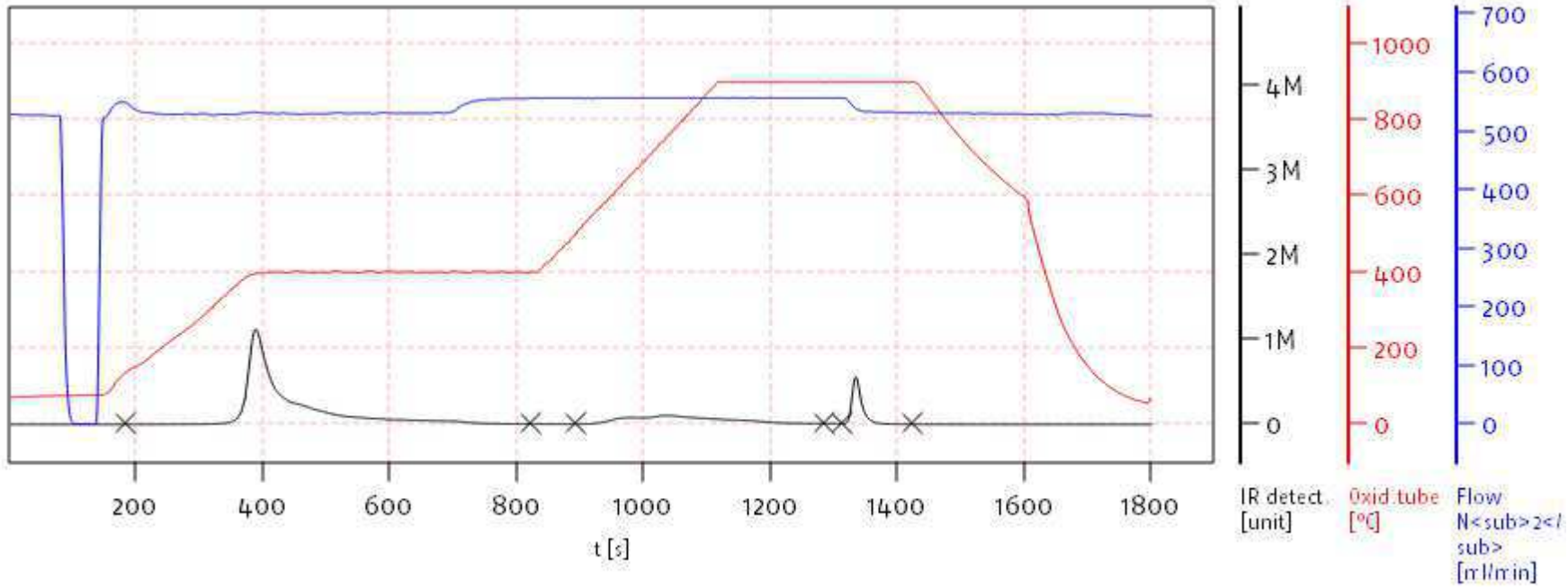
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
66	66	22L0417-01	501.80		CARBON	12/29/2022 11:31 PM	bl	0.939	2 776 504	1.160	0.110	381 880	741 948	0.829	0.221	0.9774	1.0000



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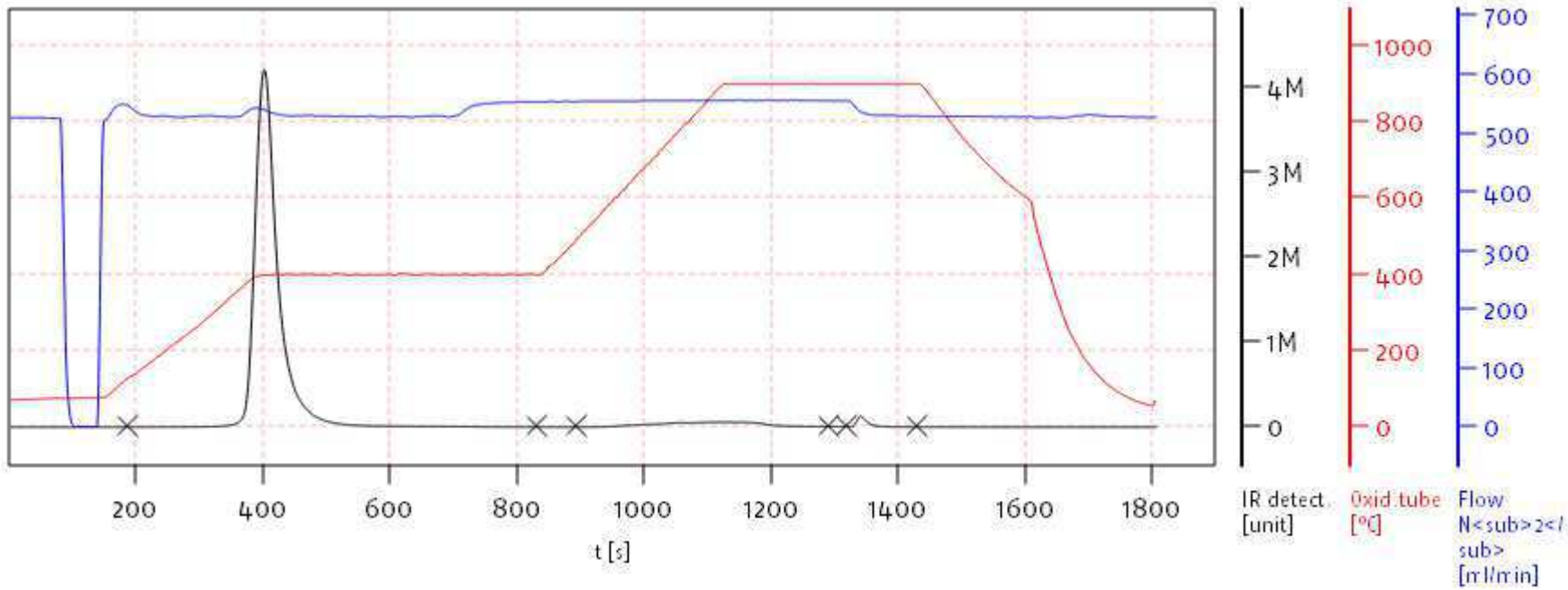
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
67	67	22L0417-02	525.70		CARBON	12/30/2022 12:02 AM	bl	1.908	6 581 365	2.030	0.021	97 977	441 929	1.887	0.122	0.9774	1.0000



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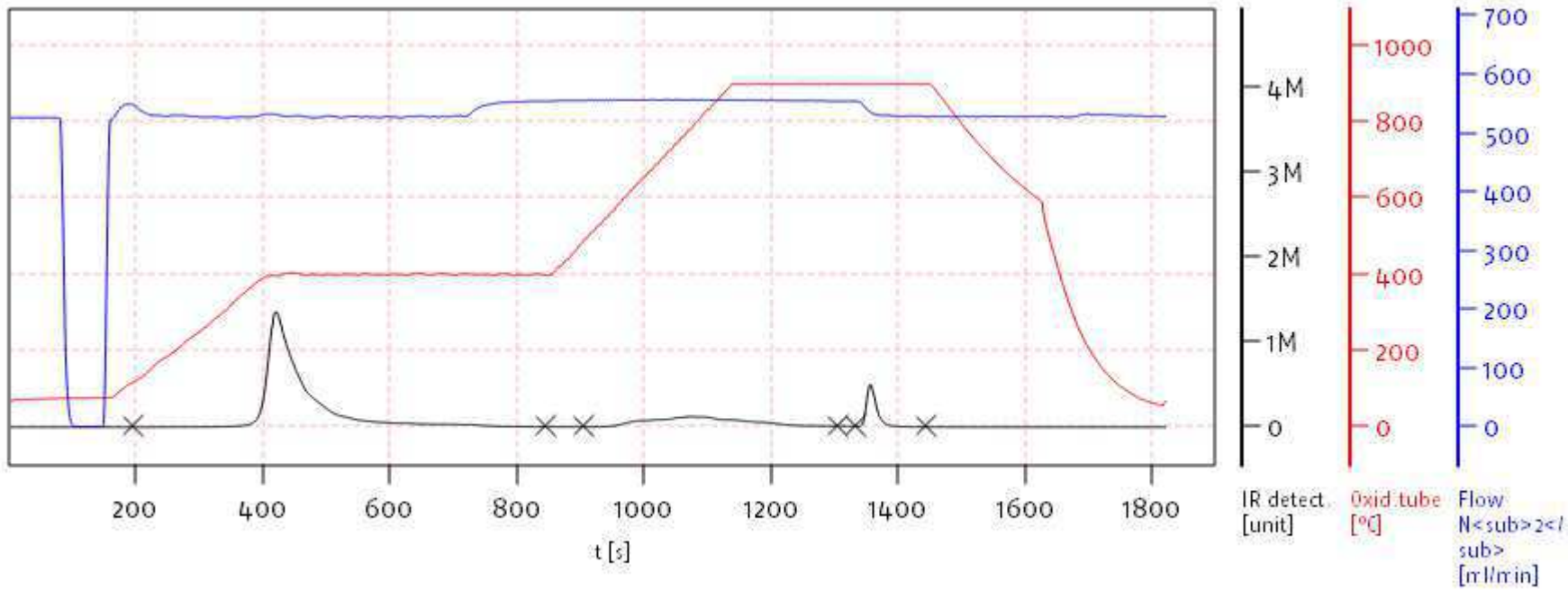
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
68	68	22L0417-03	525.80		CARBON	12/30/2022 12:33 AM	bl	1.036	3 293 495	1.282	0.096	352 622	862 415	0.940	0.246	0.9774	1.0000



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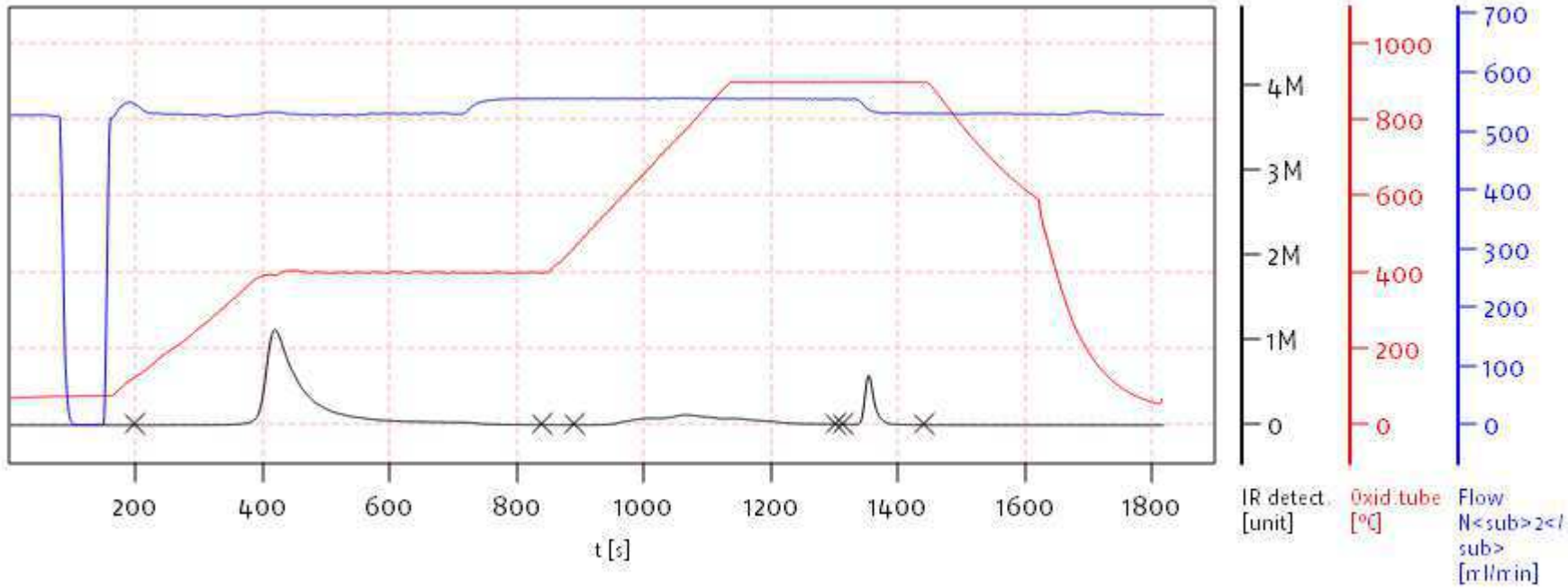
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
69	69	22L0417-04	510.20		CARBON	12/30/2022 1:03 AM	bl	0.981	2 945 531	1.218	0.115	405 637	807 116	0.866	0.237	0.9774	1.0000



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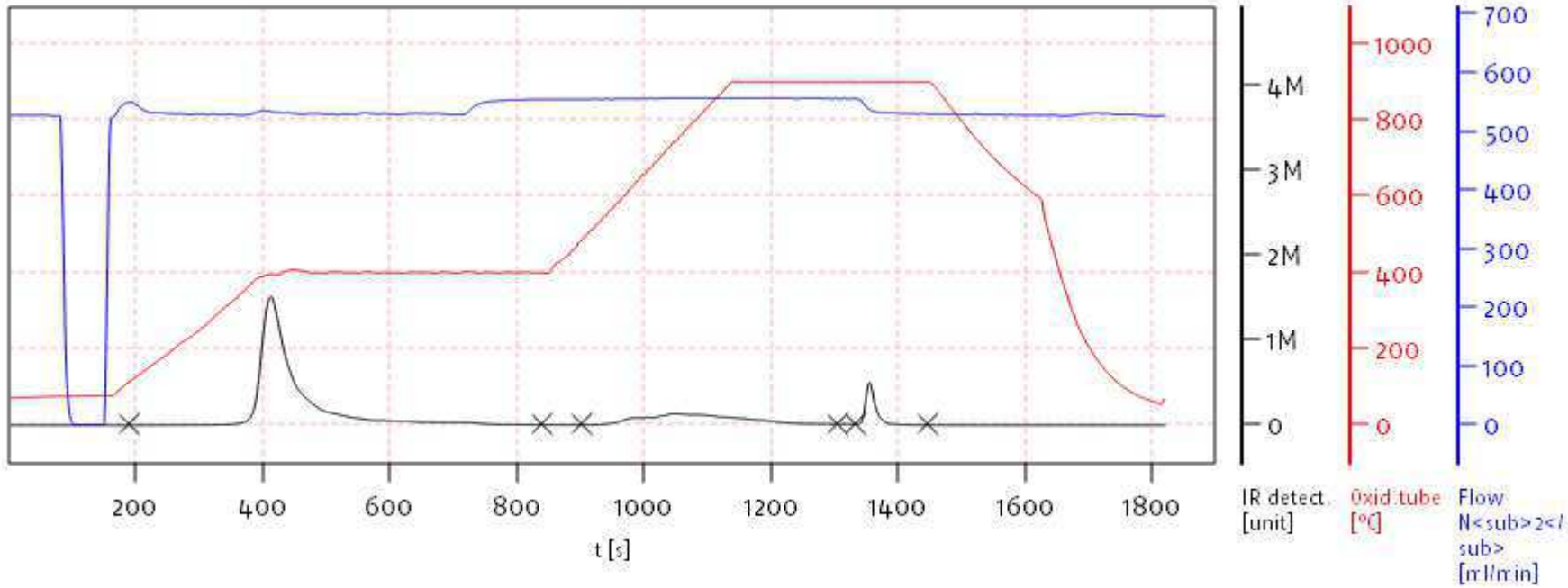
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
70	70	22L0417-05	537.20		CARBON	12/30/2022 1:34 AM	bl	1.063	3 475 552	1.333	0.092	345 430	963 171	0.971	0.270	0.9774	1.0000



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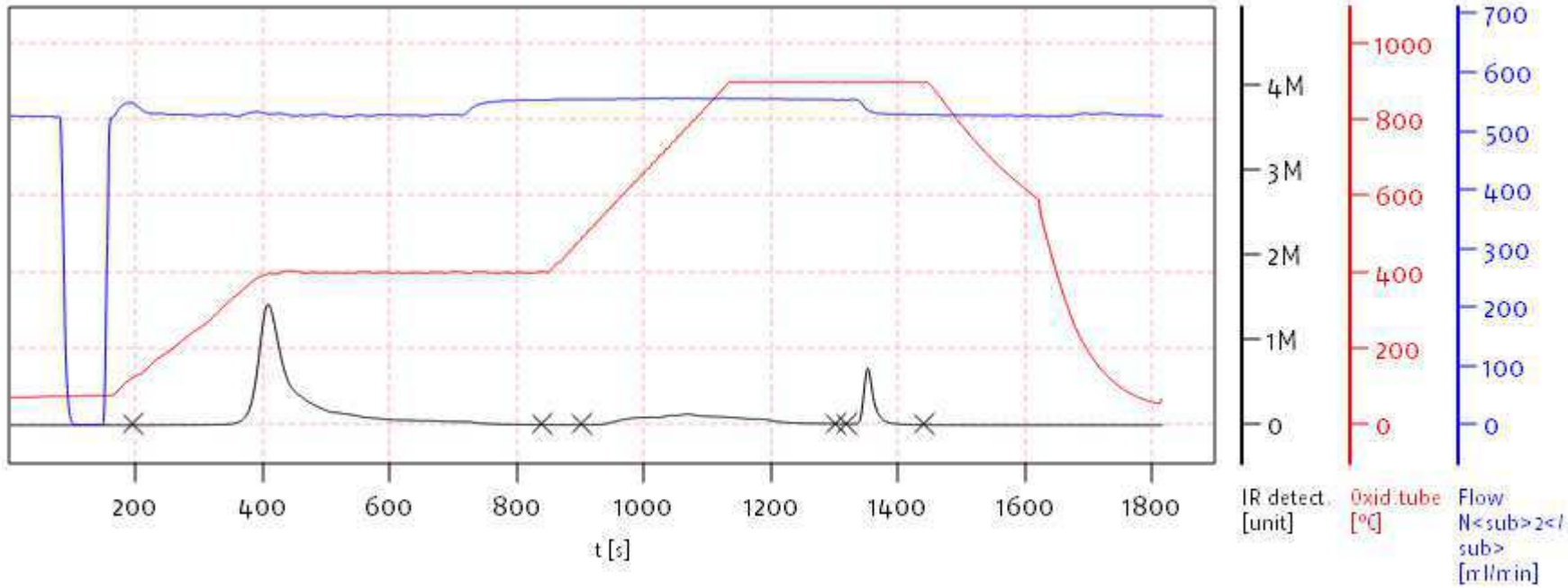
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
71	71	22L0417-06	536.00		CARBON	12/30/2022 2:05 AM	bl	1.120	3 528 412	1.394	0.132	482 377	973 695	0.989	0.274	0.9774	1.0000



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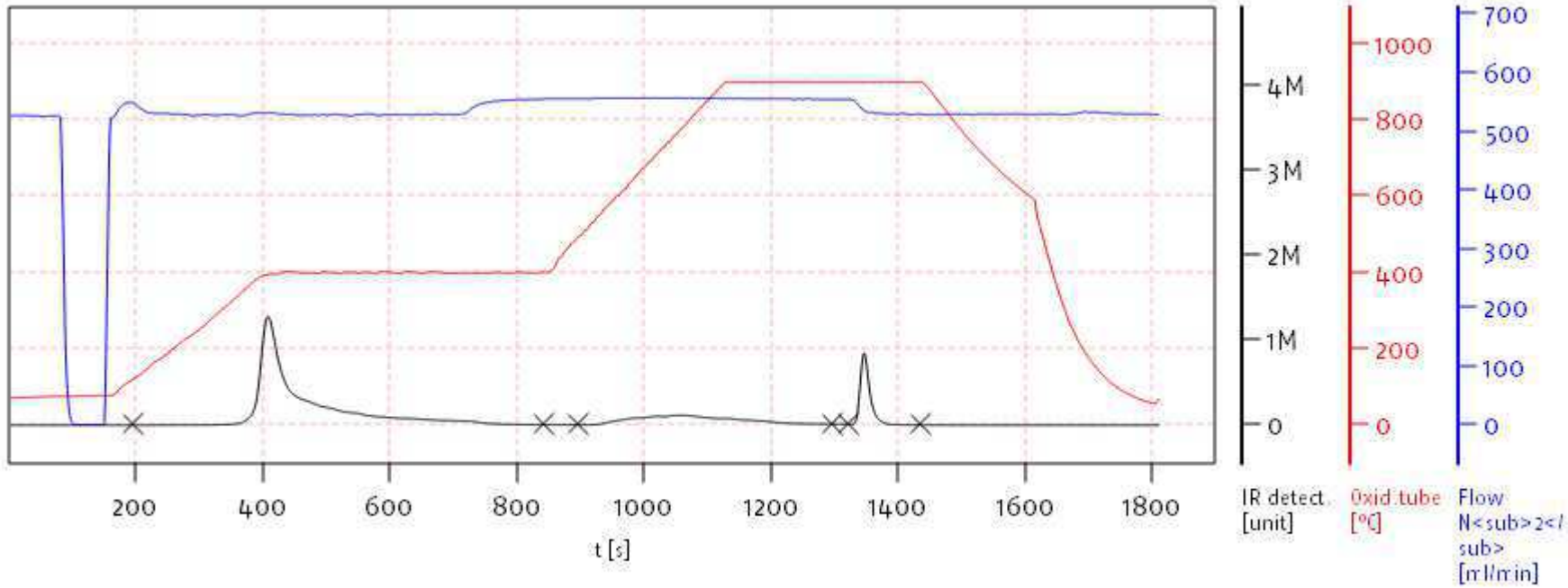
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
72	72	22L0417-07	522.50		CARBON	12/30/2022 2:35 AM	bl	1.088	3 227 152	1.338	0.161	571 561	870 140	0.927	0.250	0.9774	1.0000



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Balance: BAL3
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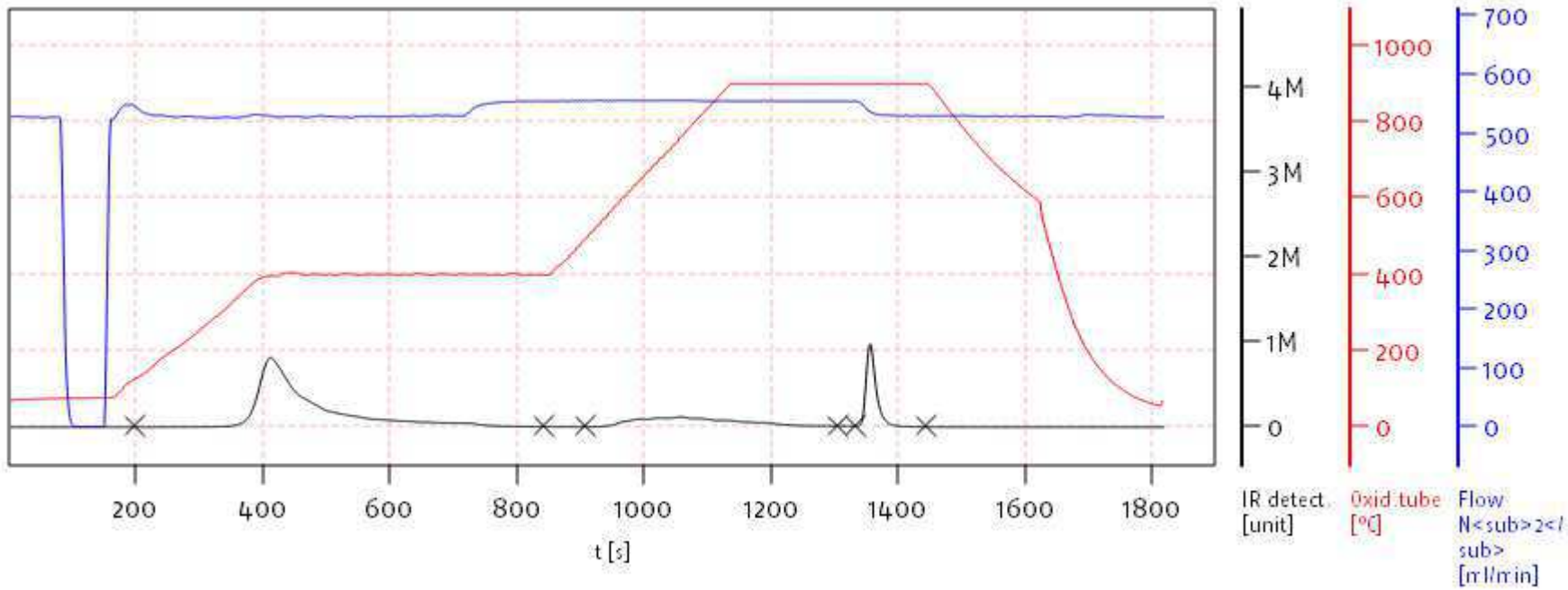
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
73	73	22L0417-08	514.40		CARBON	12/30/2022 3:06 AM	bl	1.060	2 953 173	1.313	0.199	688 000	868 121	0.861	0.253	0.9774	1.0000



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Balance: BAL3
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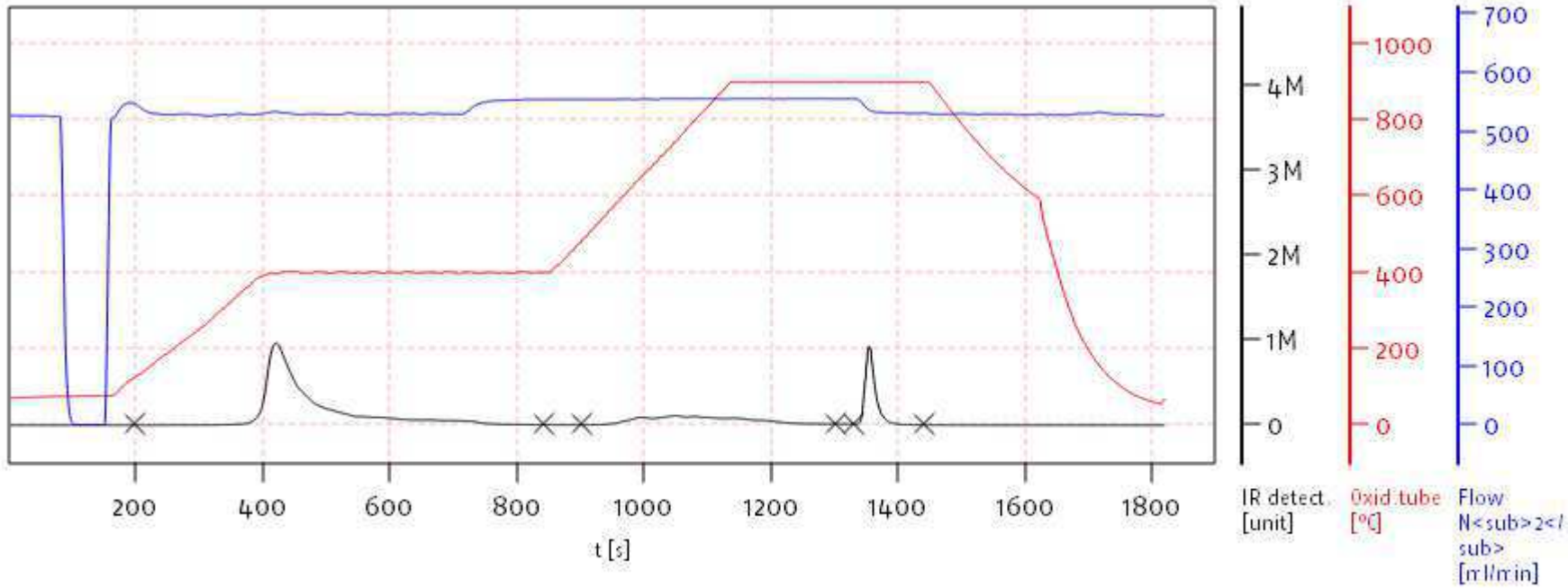
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
74	74	22L0417-09	556.60		CARBON	12/30/2022 3:37 AM	bl	0.946	2 861 405	1.171	0.175	656 235	836 164	0.771	0.225	0.9774	1.0000



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Access: soliTOC superuser

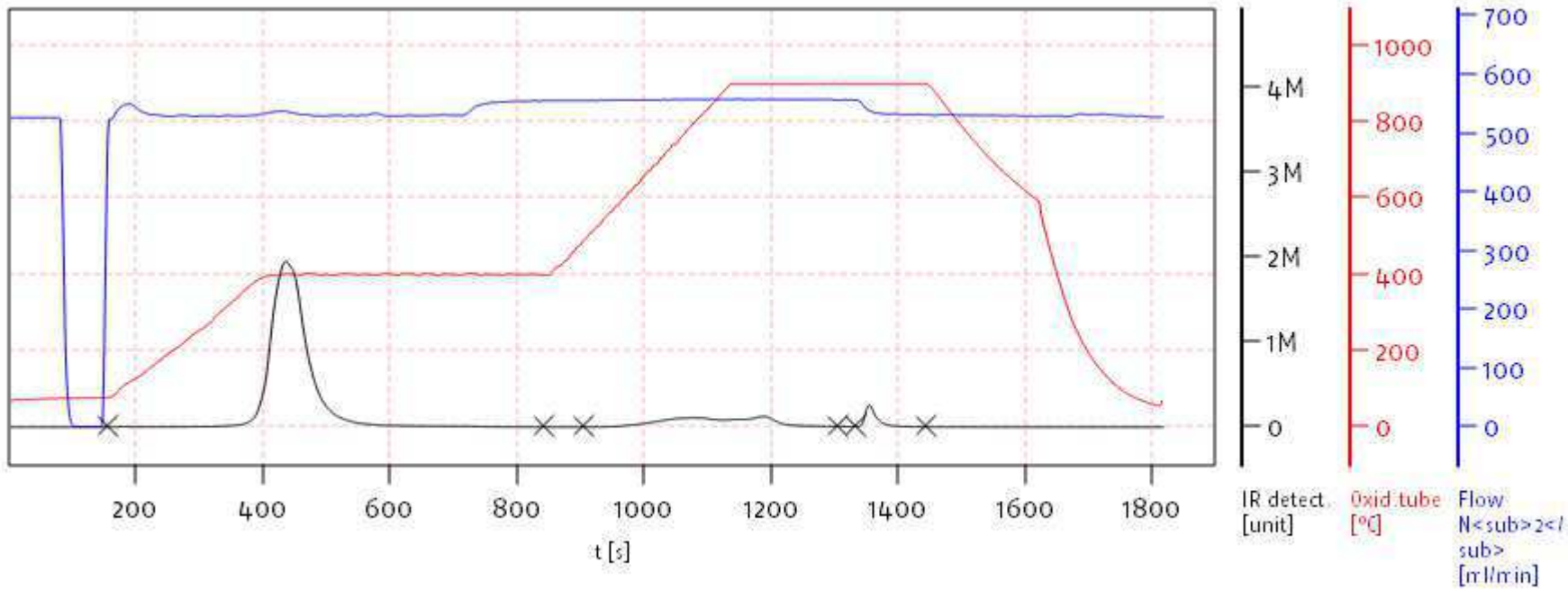
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
75	75	22L0492-17	516.20		CARBON	12/30/2022 4:07 AM	bl	1.479	4 882 583	1.722	0.056	211 950	836 440	1.423	0.243	0.9774	1.0000



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Mode CCC

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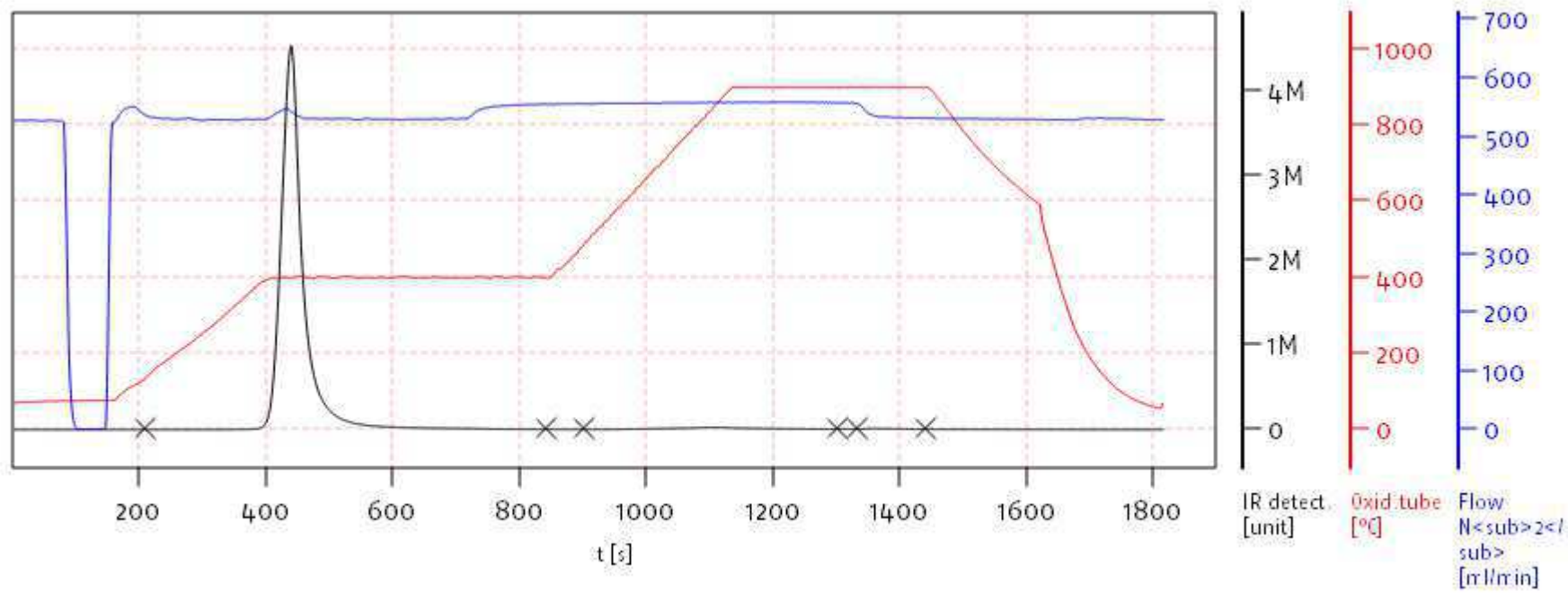
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
76	76	SKL0336-CCV6	22.50		CARBON	12/30/2022 4:38 AM	bl	45.006	6 712 219	45.991	0.047	33 362	169 589	44.959	0.984	0.9774	1.0000



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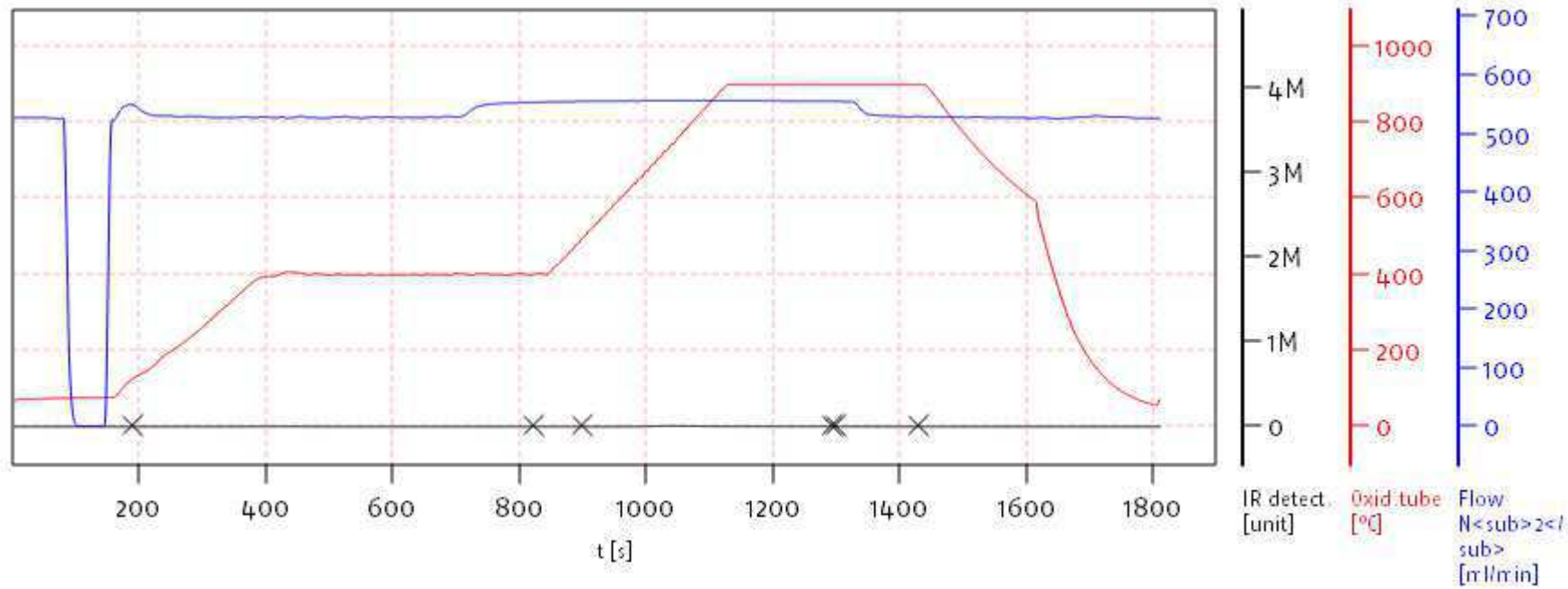
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
77	77	SKL0336-CCB6	508.40		CARBON	12/30/2022 5:09 AM	bl	0.000	9 608	0.004	0.000	3 866	39 806	0.000	0.004	0.9774	1.0000



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Serial No: 0300.181017
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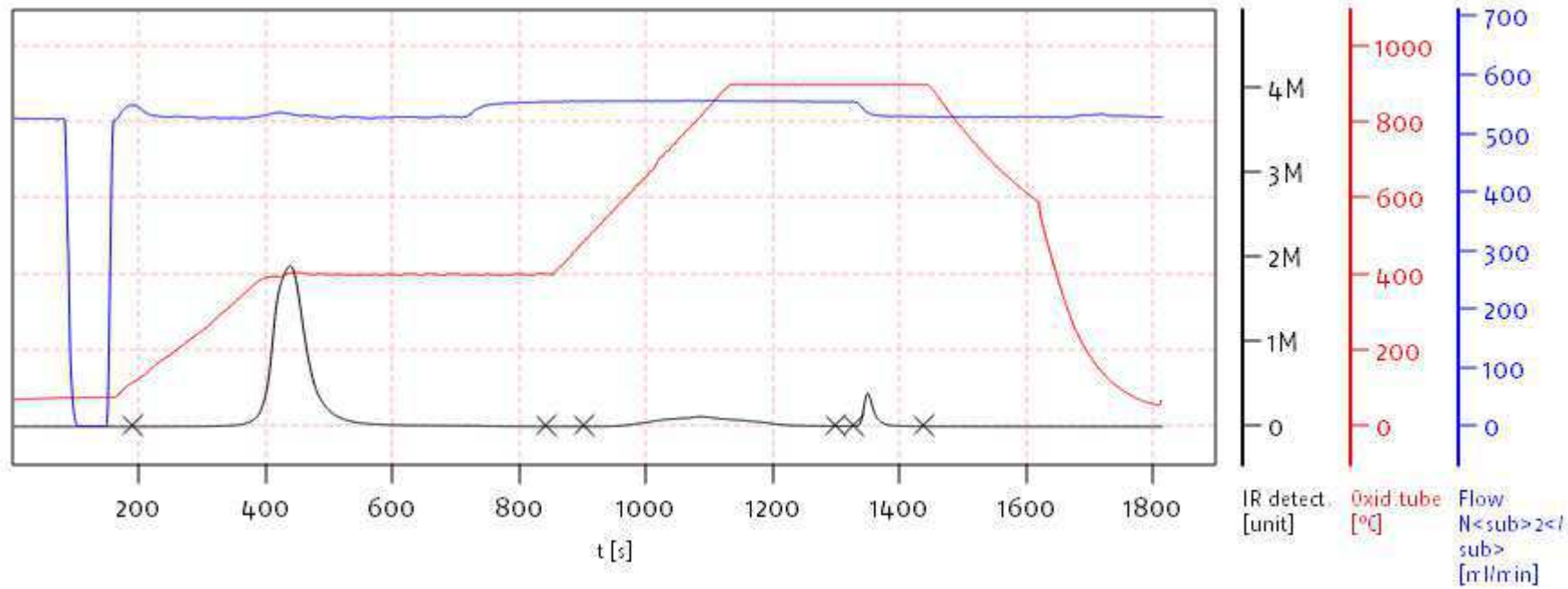
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
78	78	BKL0599-DUP2	538.20		CARBON	12/30/2022 5:39 AM	bl	1.340	4 525 617	1.540	0.075	287 997	721 652	1.265	0.200	0.9774	1.0000



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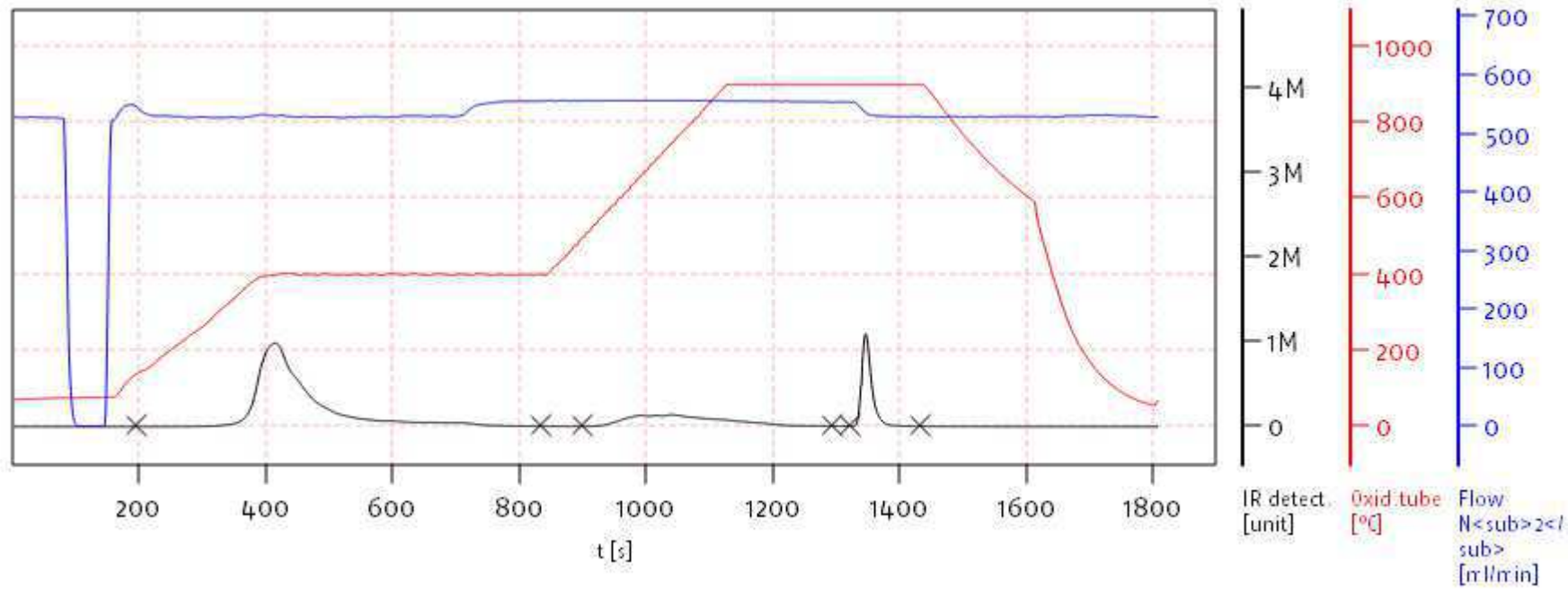
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
79	79	BKL0599-DUP3	512.60		CARBON	12/30/2022 6:10 AM	bl	1.239	3 475 726	1.518	0.221	758 207	951 296	1.018	0.279	0.9774	1.0000



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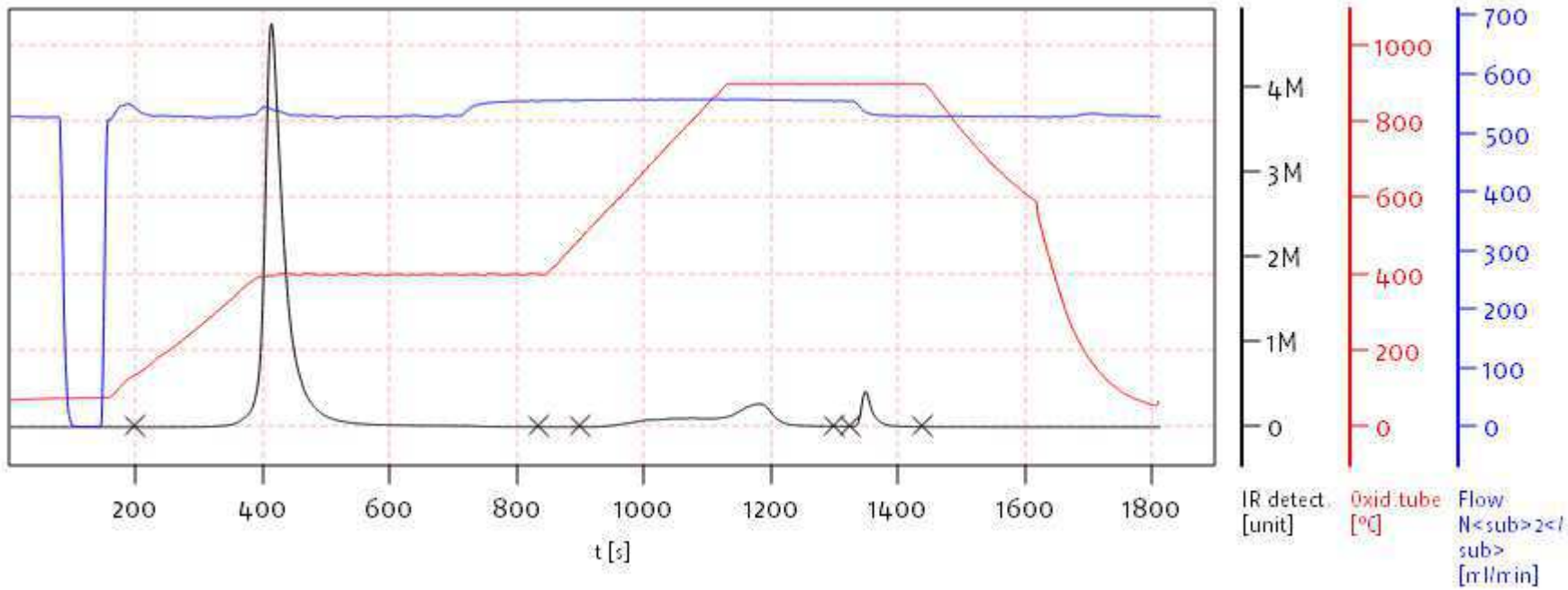
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
80	80	BKL0599-MS2	530.50	0.0074	CARBON	12/30/2022 6:40 AM	bl	2.009	6 762 198	2.370	0.088	327 572	1 263 888	1.921	0.361	0.9774	1.0000



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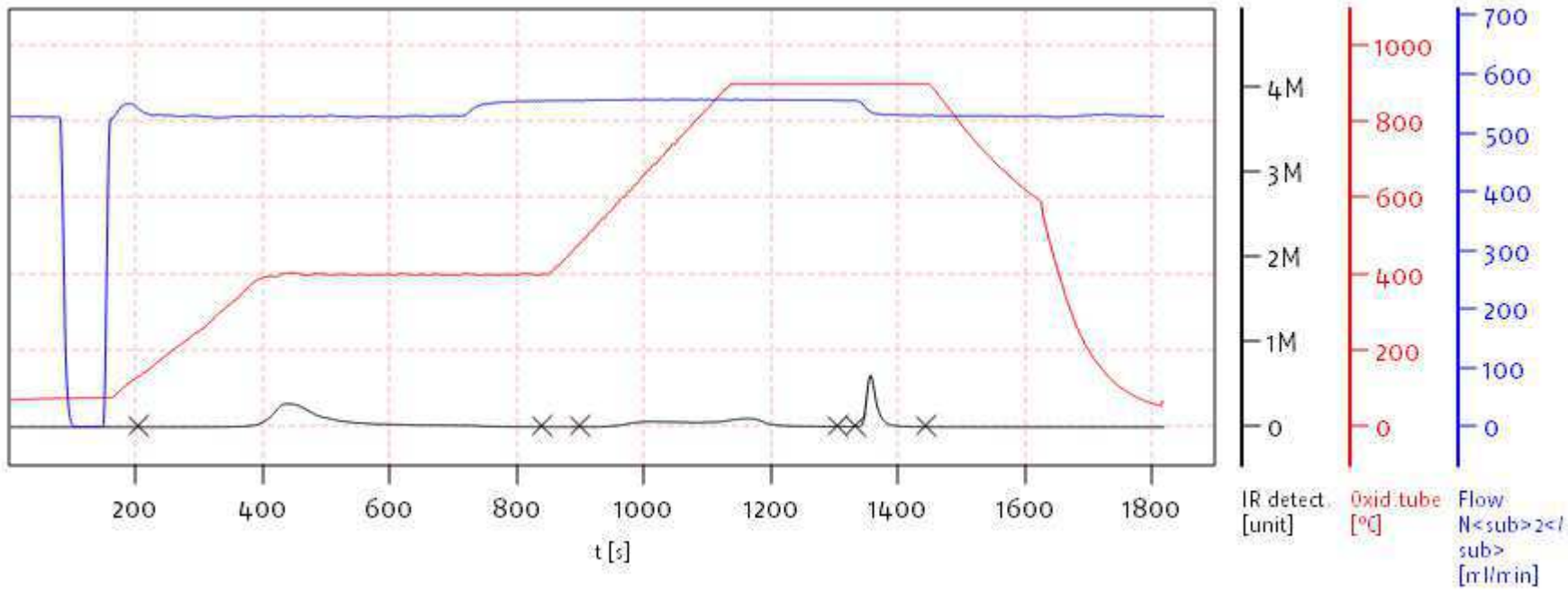
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
81	81	22L0492-18	500.40		CARBON	12/30/2022 7:11 AM	bl	0.448	1 096 735	0.635	0.125	429 558	631 029	0.324	0.187	0.9774	1.0000



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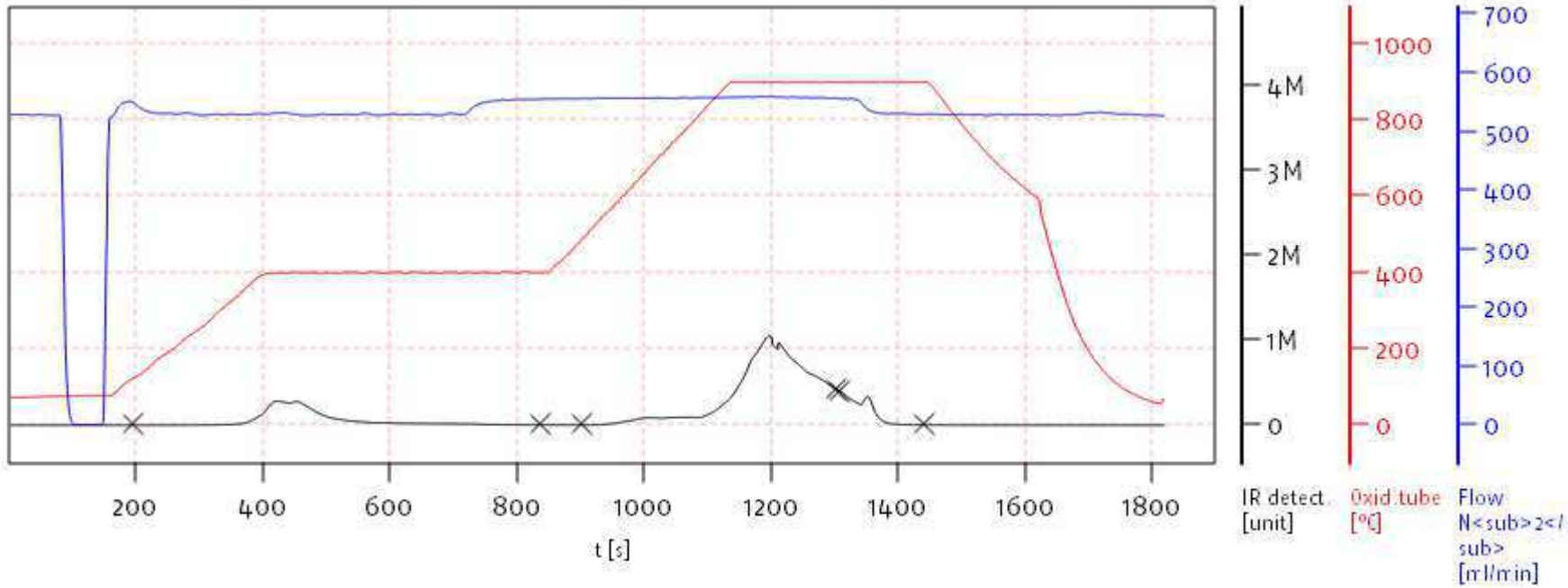
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
82	82	22K0328-20RE1	542.00		CARBON	12/30/2022 7:42 AM	bl	0.526	1 230 274	1.984	0.190	690 477	5 131 194	0.336	1.458	0.9774	1.0000



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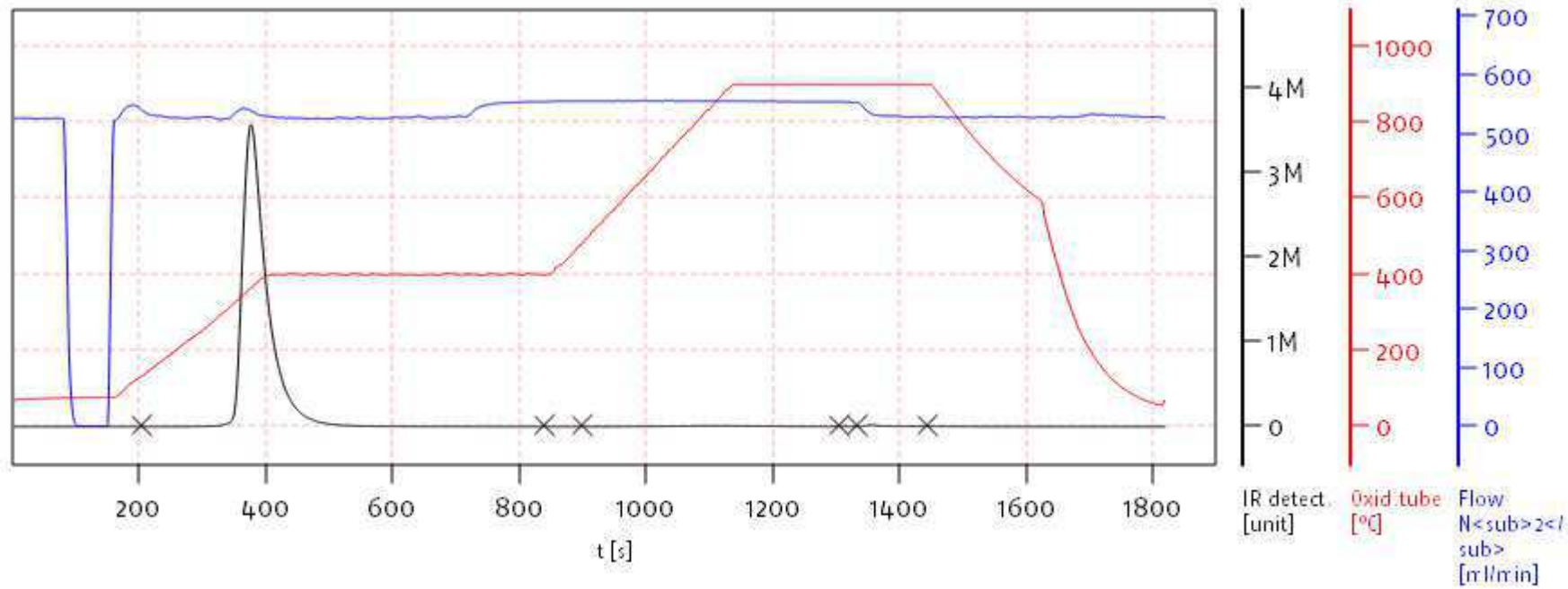
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
83	83	22K0447-01RE1	209.80		CARBON	12/30/2022 8:12 AM	bl	4.260	5 933 259	4.288	0.000	26 832	63 908	4.260	0.028	0.9774	1.0000



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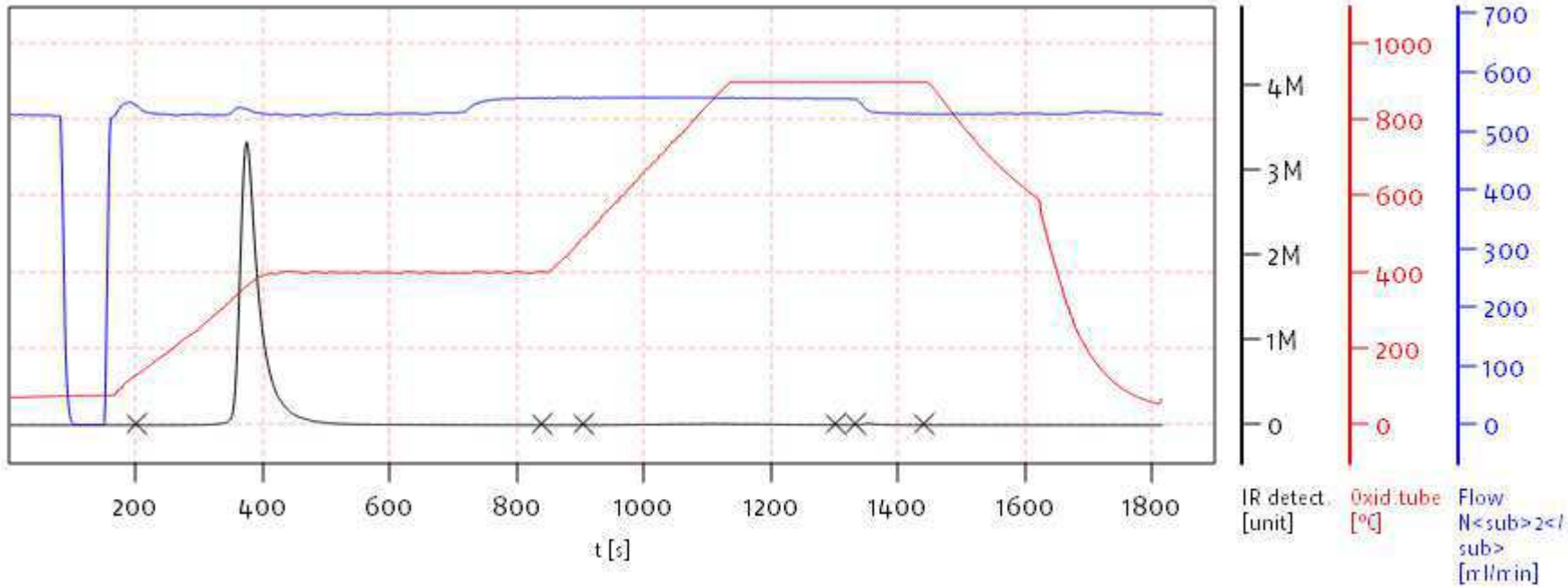
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
84	84	22K0447-02RE1	194.10		CARBON	12/30/2022 8:43 AM	bl	3.497	4 512 574	3.560	0.000	19 897	105 295	3.497	0.063	0.9774	1.0000



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Soli TOC Cube, Carbon
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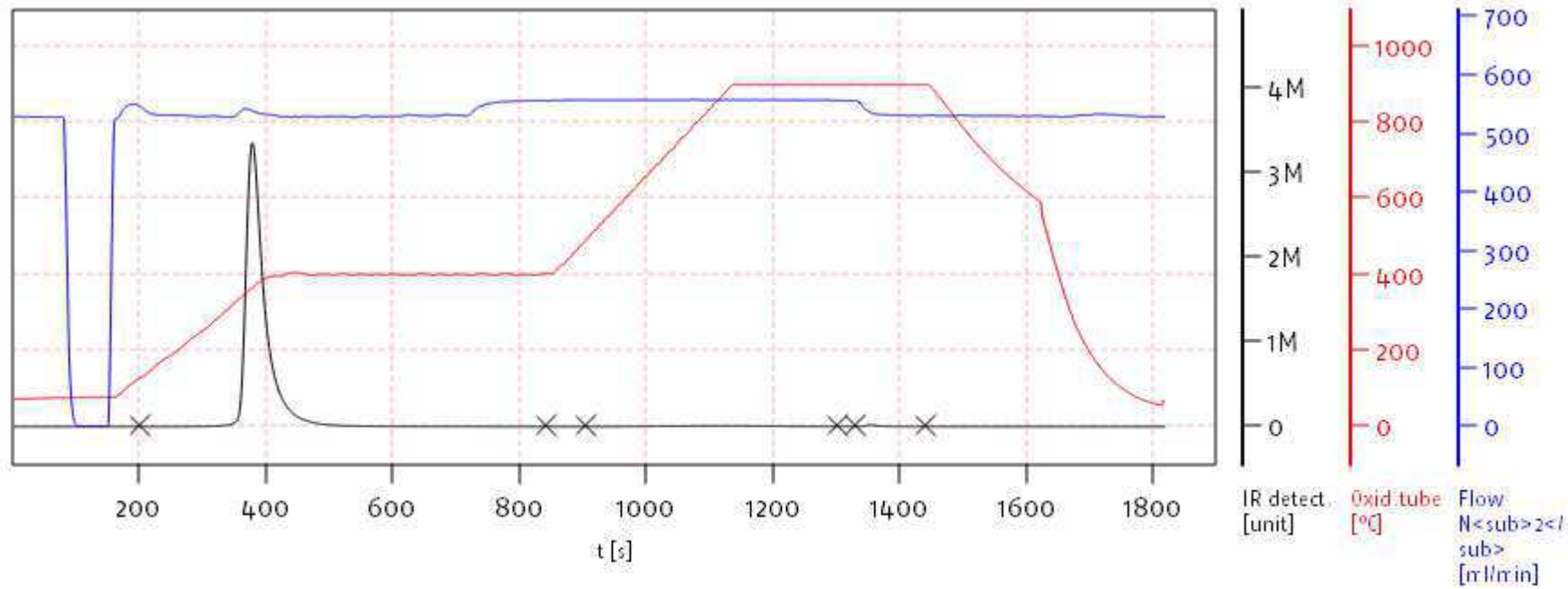
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
85	85	22L0137-17RE1	213.20		CARBON	12/30/2022 9:14 AM	bl	3.048	4 320 825	3.080	0.000	17 875	70 526	3.048	0.032	0.9774	1.0000



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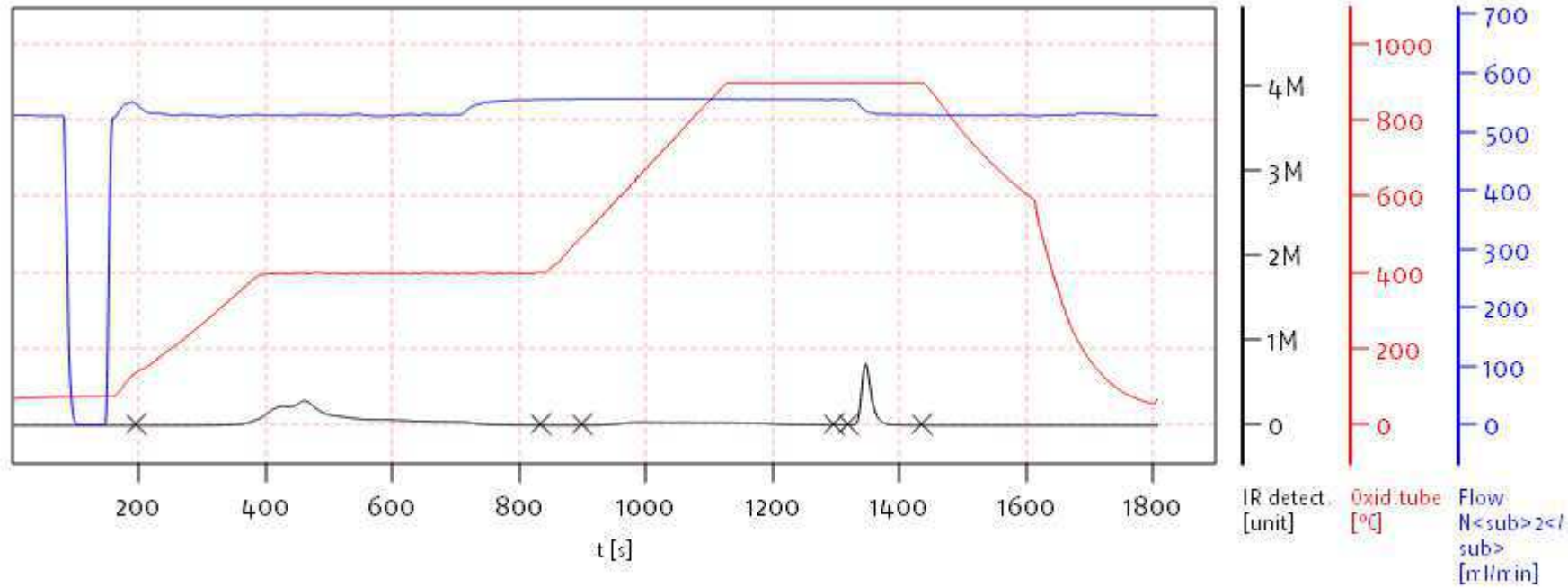
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
86	86	BKL0503-DUP2	503.30		CARBON	12/30/2022 9:44 AM	bl	0.573	1 451 063	0.664	0.144	495 993	323 969	0.428	0.091	0.9774	1.0000



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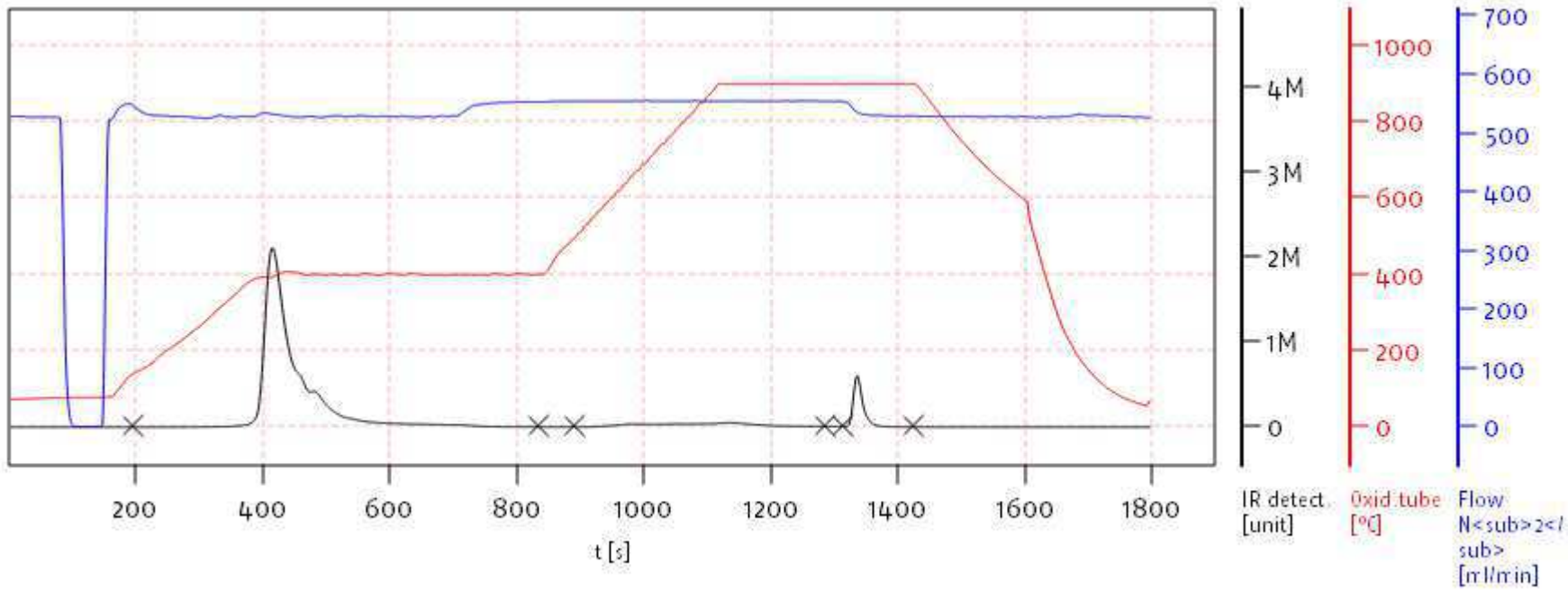
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
87	87	BKL0503-MS2	511.80	0.0081	CARBON	12/30/2022 10:15 AM	bl	1.378	4 302 208	1.483	0.114	402 234	375 823	1.264	0.106	0.9774	1.0000



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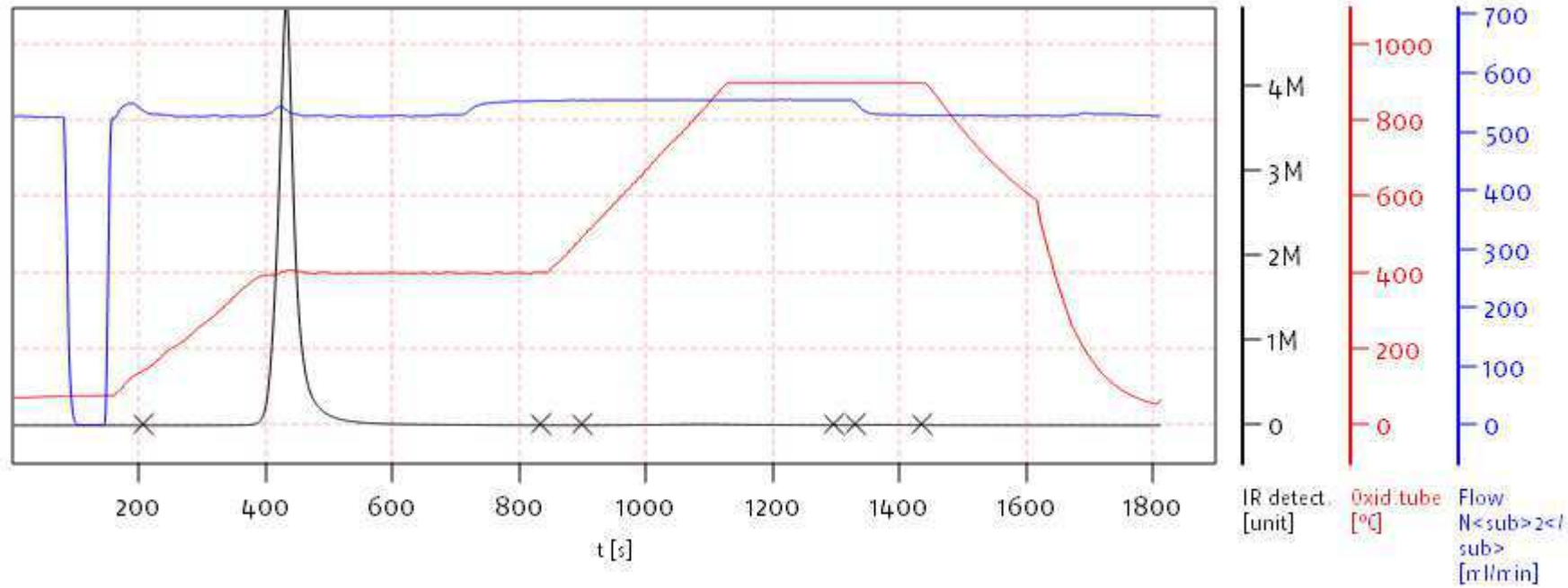
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
88	88	SKL0336-CCV7	19.80		CARBON	12/30/2022 10:45 AM	bl	46.118	6 061 556	46.639	0.000	19 488	93 189	46.118	0.521	0.9774	1.0000



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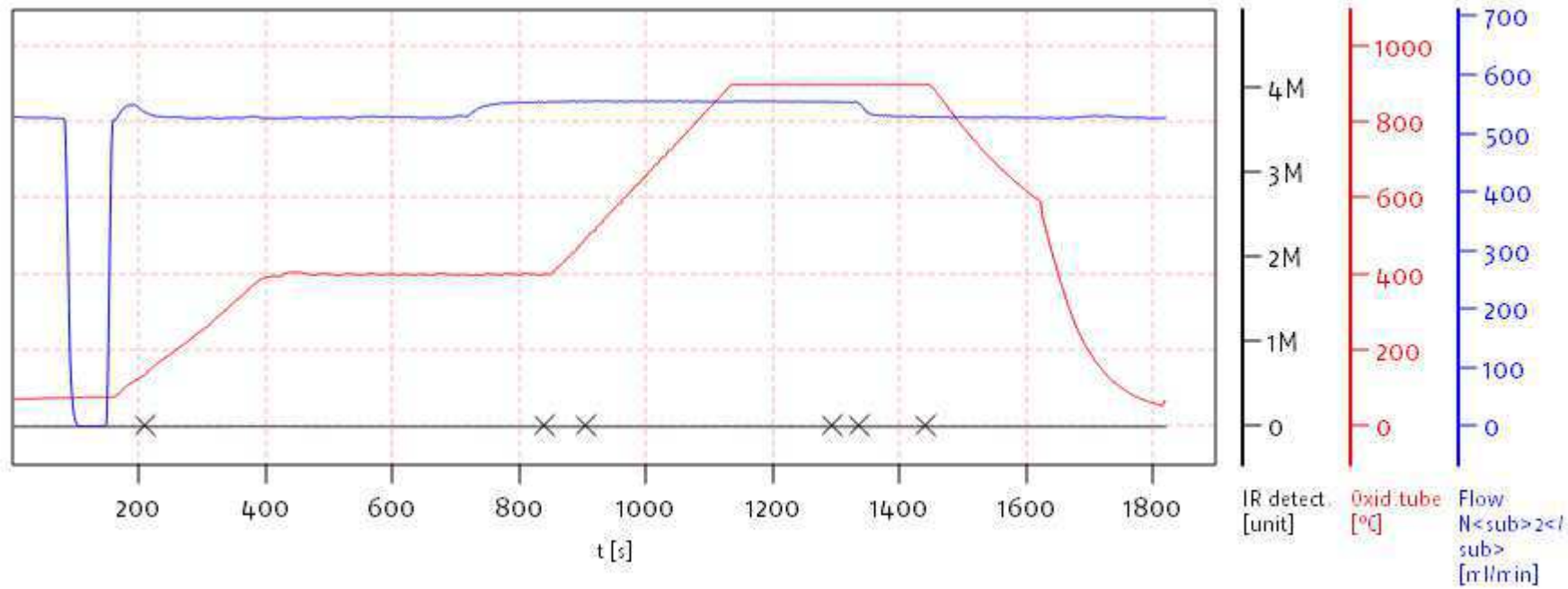
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
89	89	SKL0336-CCB7	527.20		CARBON	12/30/2022 11:16 AM	bl,C2u	0.000	9 254	0.000	0.000	702	4 532	0.000	0.000	0.9774	1.0000



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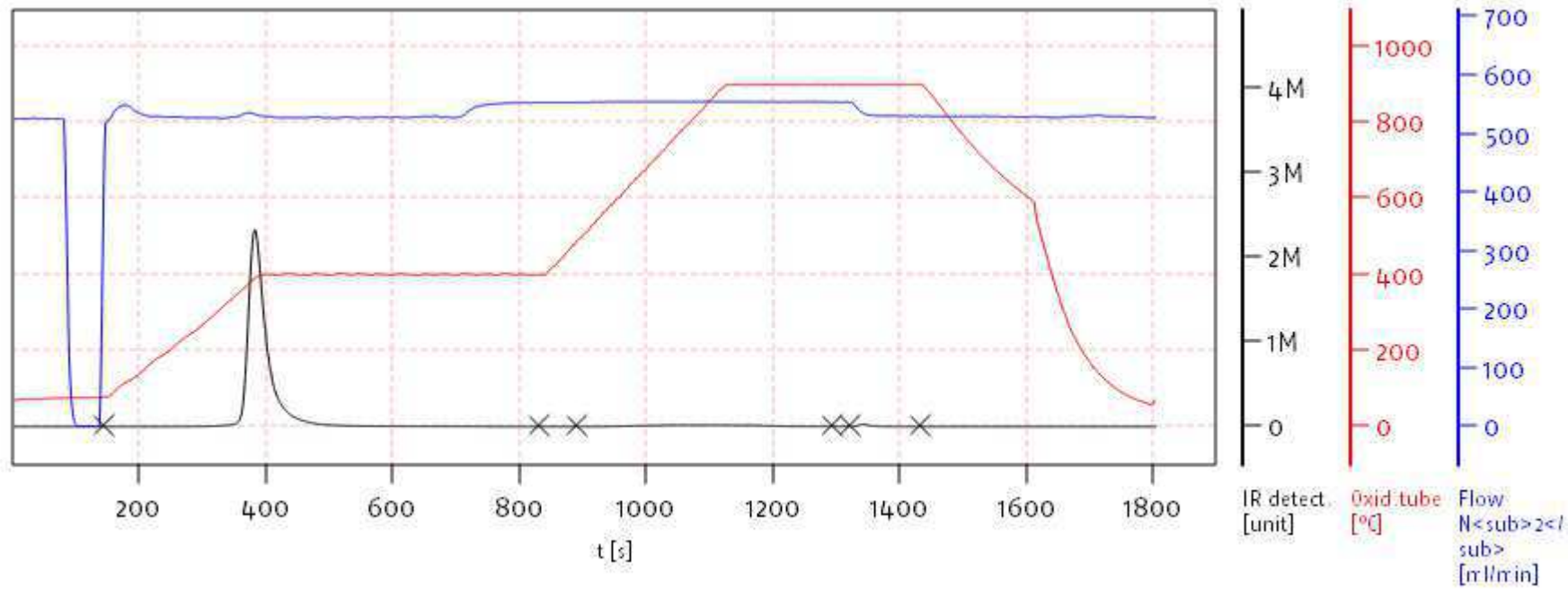
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
90	1	22L0246-32RE1	201.00		CARBON	12/30/2022 11:47 AM	bl	2.232	2 991 164	2.320	0.000	22 517	141 451	2.232	0.089	0.9774	1.0000



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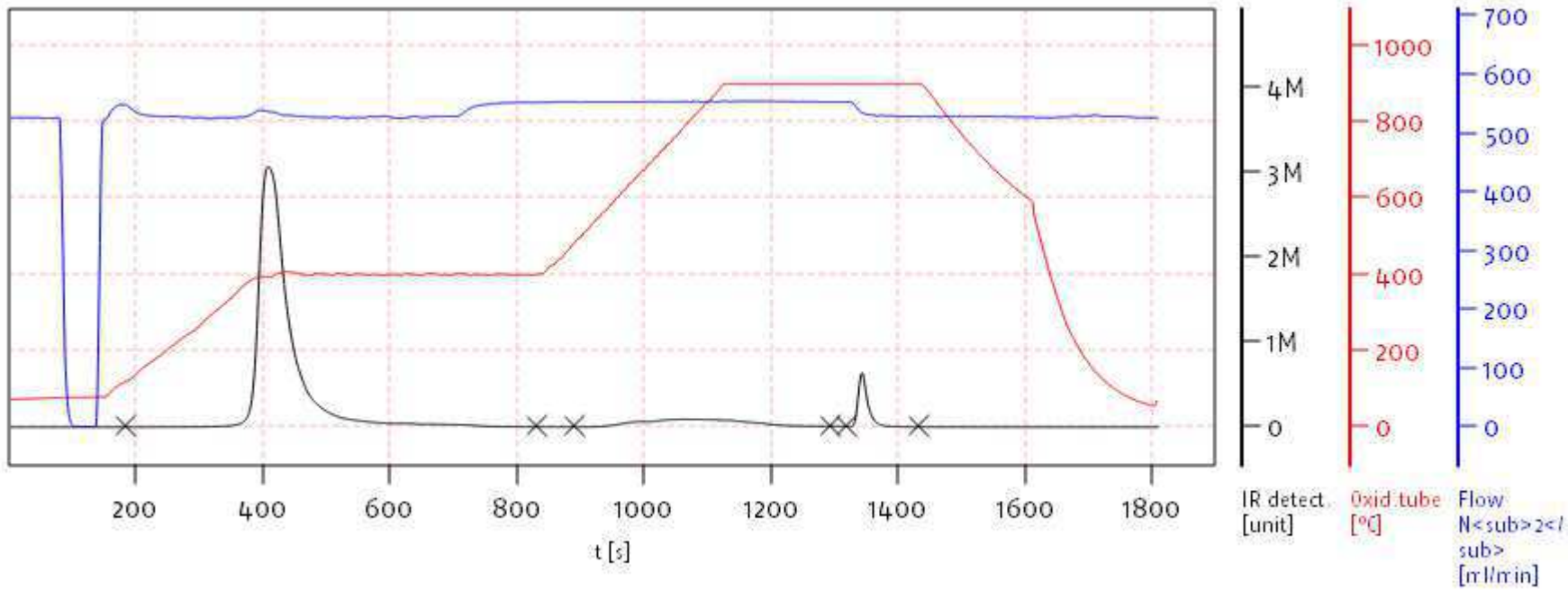
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
91	2	BKL0385-MS2	508.50	0.0084	CARBON	12/30/2022 12:17 PM	bl	2.025	6 424 375	2.236	0.122	425 995	719 774	1.904	0.211	0.9774	1.0000



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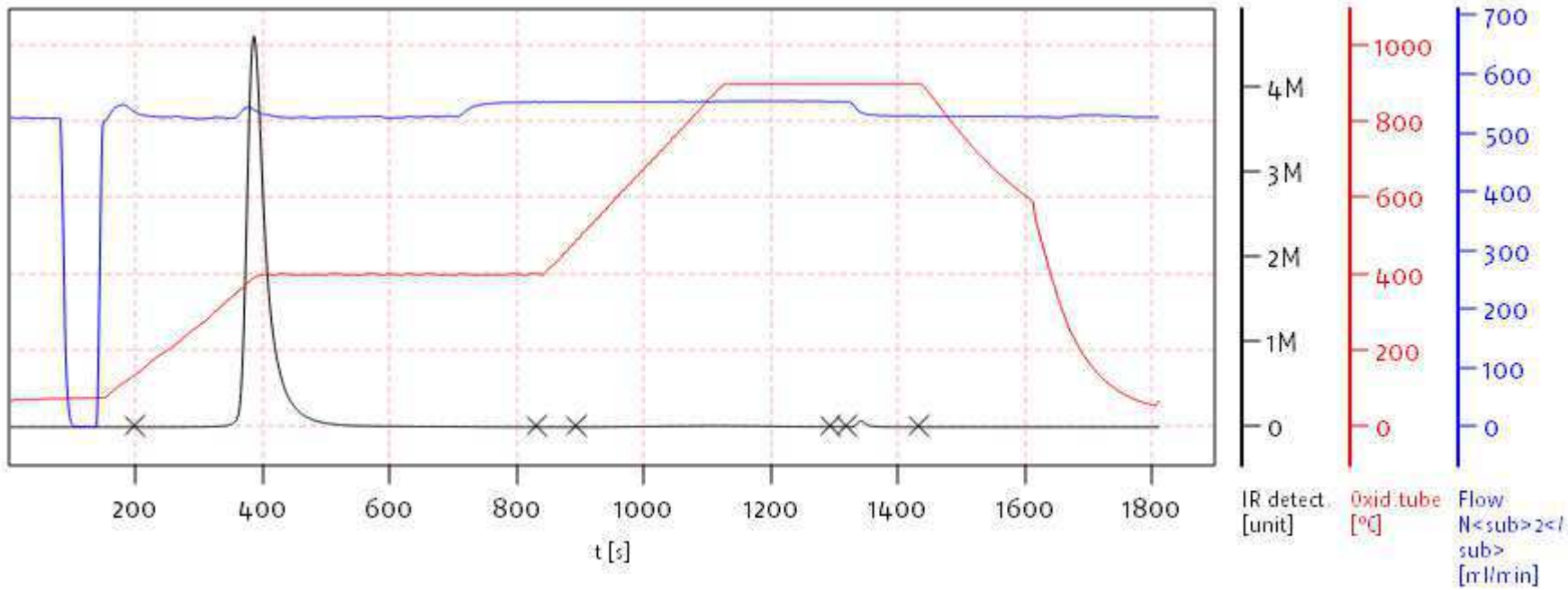
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
92	3	BKL0300-MS2	203.00	0.0085	CARBON	12/30/2022 12:48 PM	bl	4.684	6 287 310	4.749	0.017	49 399	111 420	4.666	0.065	0.9774	1.0000



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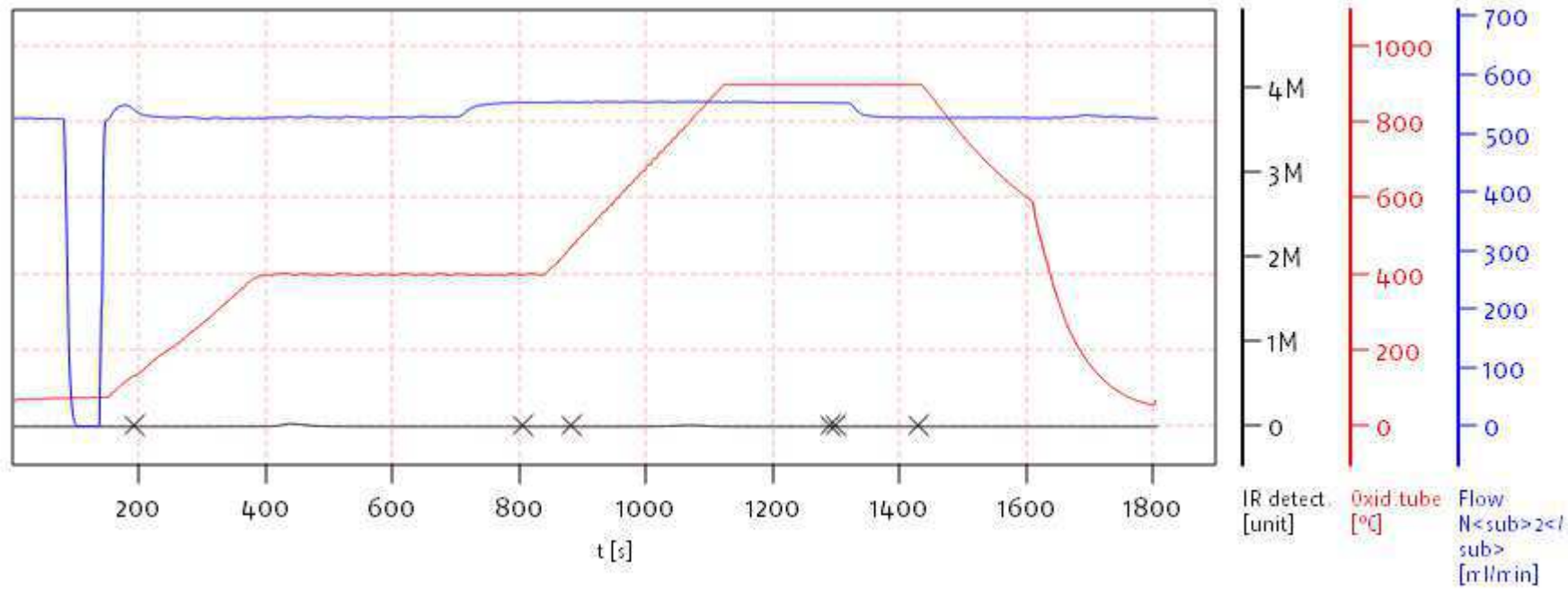
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
93	4	BKL0650-MRL1	505.40		CARBON	12/30/2022 1:18 PM	bl,C2u	0.013	69 320	0.016	0.000	612	36 409	0.013	0.003	0.9774	1.0000



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Balance: BAL3
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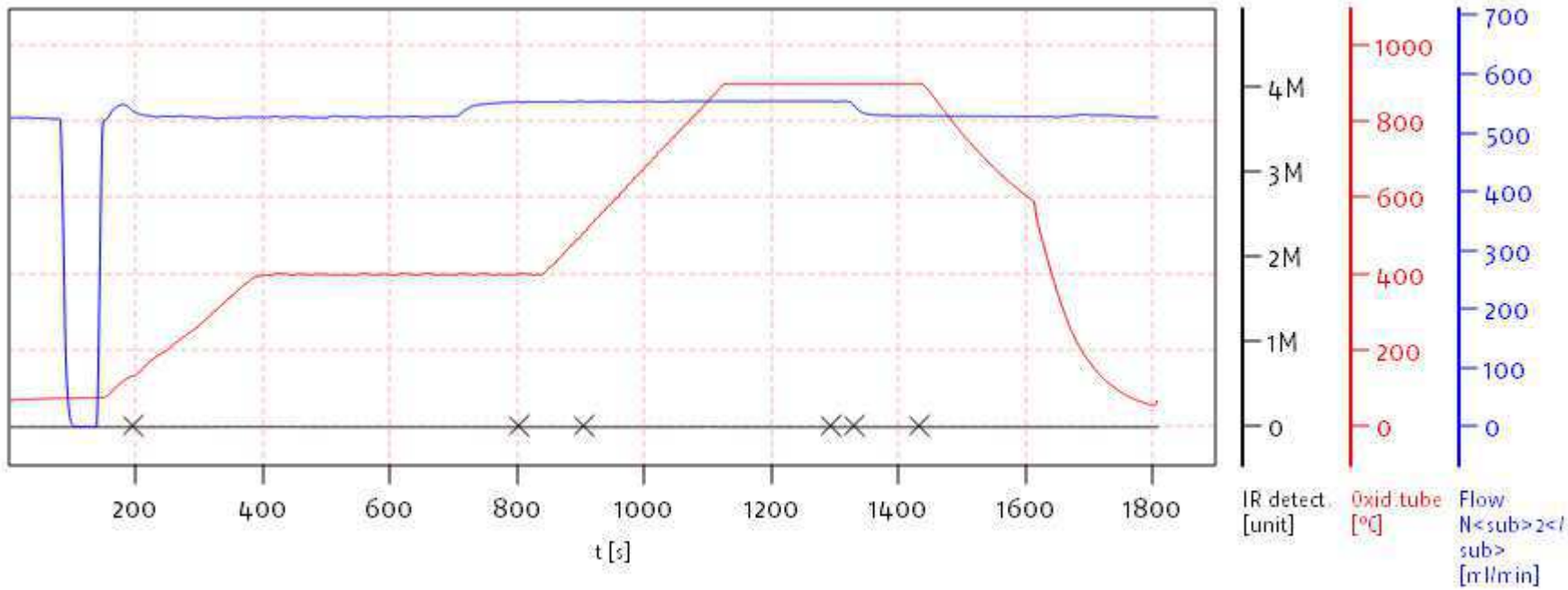
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
94	5	BKL0650-BLK1	516.90		CARBON	12/30/2022 1:49 PM	bl,C2u	0.000	10 665	0.000	0.000	474	4 779	0.000	0.000	0.9774	1.0000



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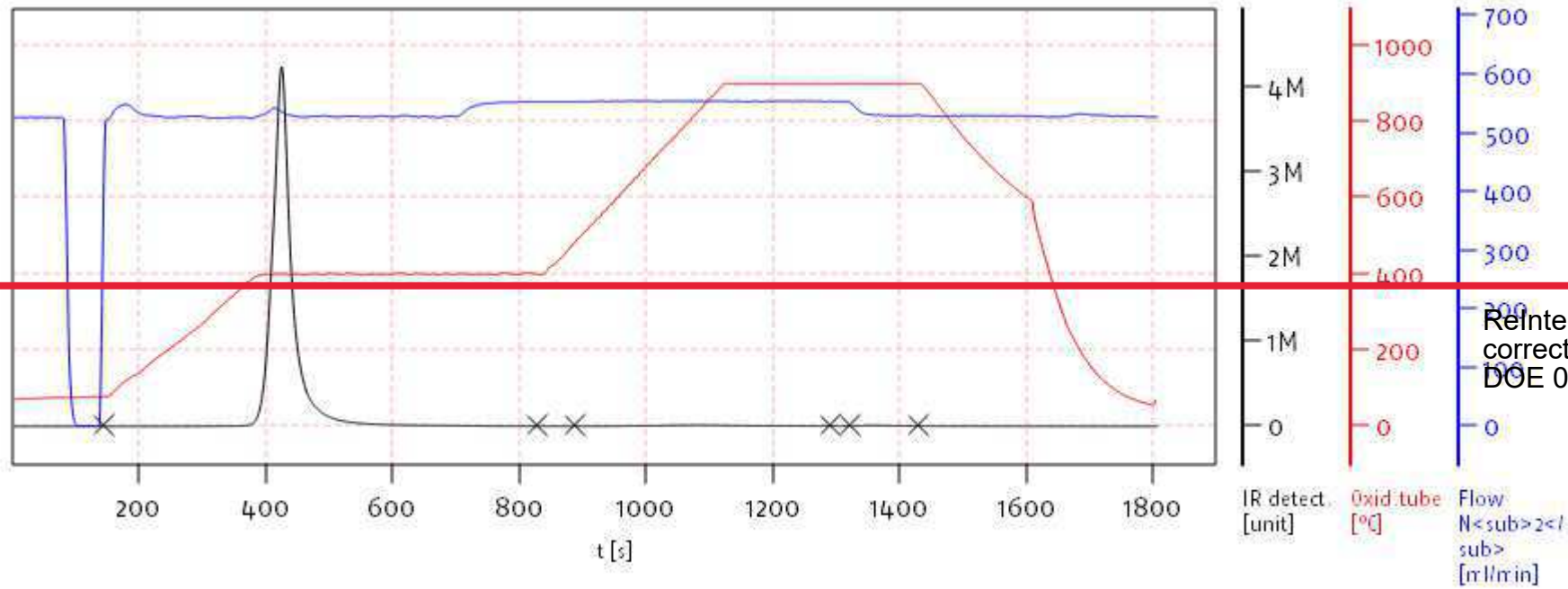
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	BKL0650-BS1	191.00		CARBON	12/30/2022 2:19 PM	bl	4.508	5 715 005	4.570	0.001	28 228	103 151	4.506	0.062	0.9774	1.0000



Reintegrated with correct weight
DOE 01/03/23

Name:

Access: soliTOC superuser

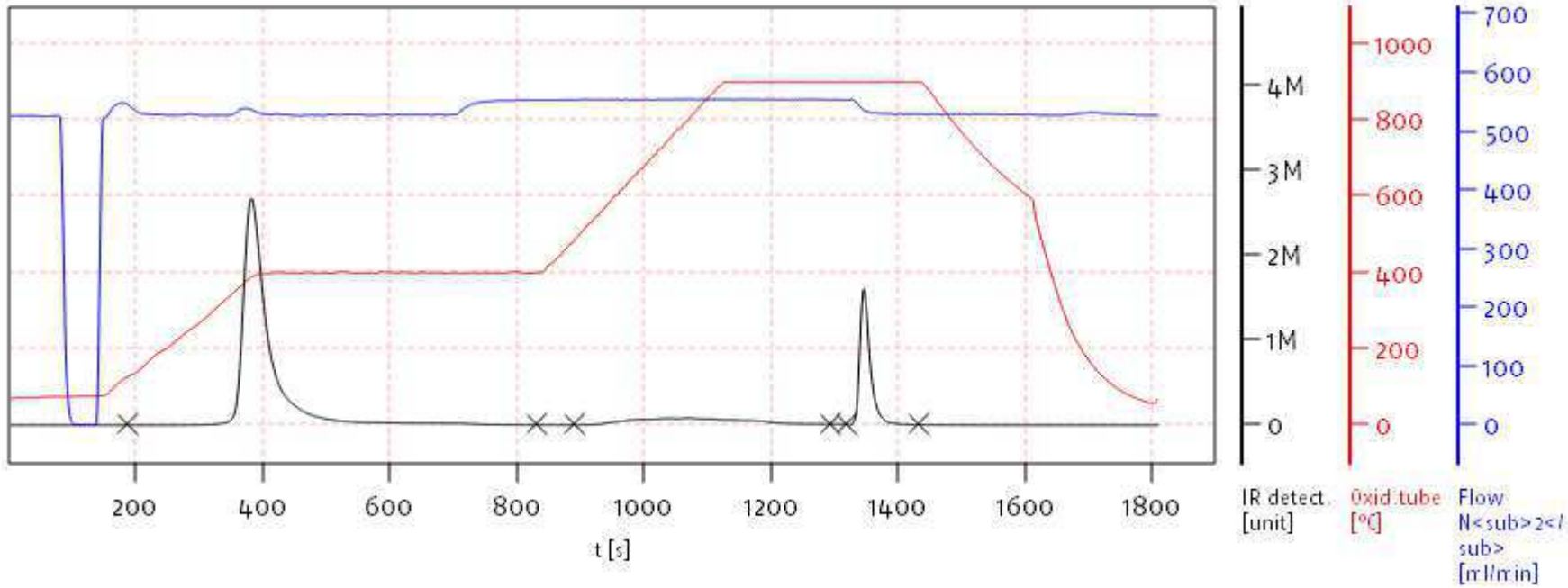
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
96	7	BKL0650-SRM1	285.30		CARBON	12/30/2022 2:50 PM	bl	3.042	4 609 625	3.402	0.612	1 154 220	688 728	2.431	0.359	0.9774	1.0000



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Serial No: 0300.181017
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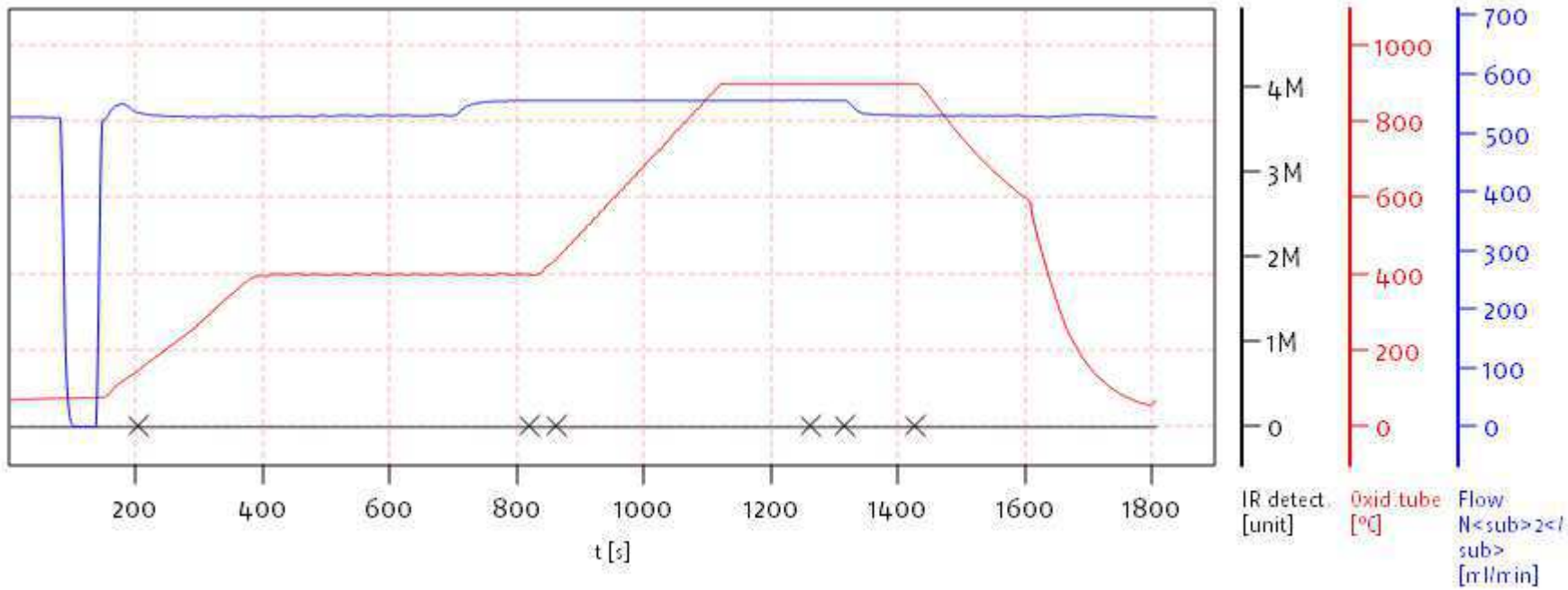
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
97	8	BLANK	1.00		CARBON	12/30/2022 3:20 PM	bl	0.000	4 983	0.000	0.000	560	822	0.000	0.000	0.9774	1.0000



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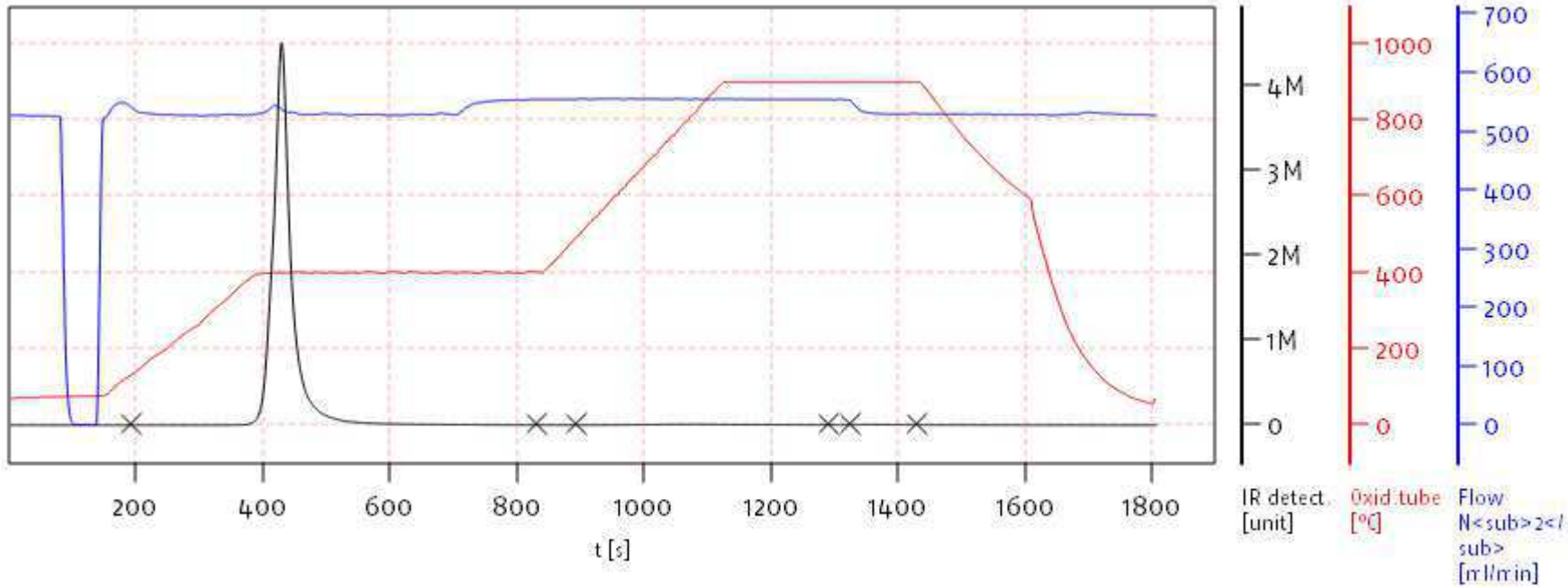
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
98	9	Dfactor	18.50		CARBON	12/30/2022 3:51 PM	bl	44.446	5 599 692	44.903	0.000	21 143	81 236	44.446	0.458	0.9531	1.0000



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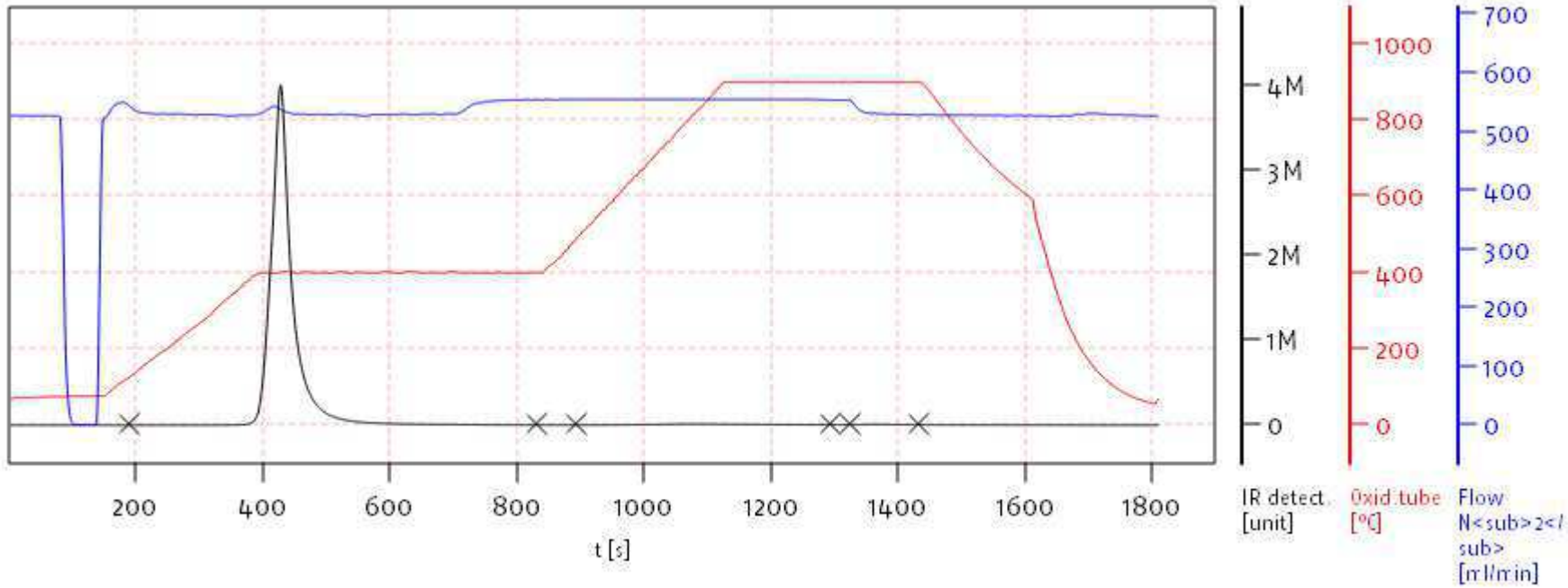
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
99	10	Dfactor	19.20		CARBON	12/30/2022 4:22 PM	bl	44.458	5 705 068	45.092	0.012	28 017	105 190	44.446	0.634	0.9708	1.0000



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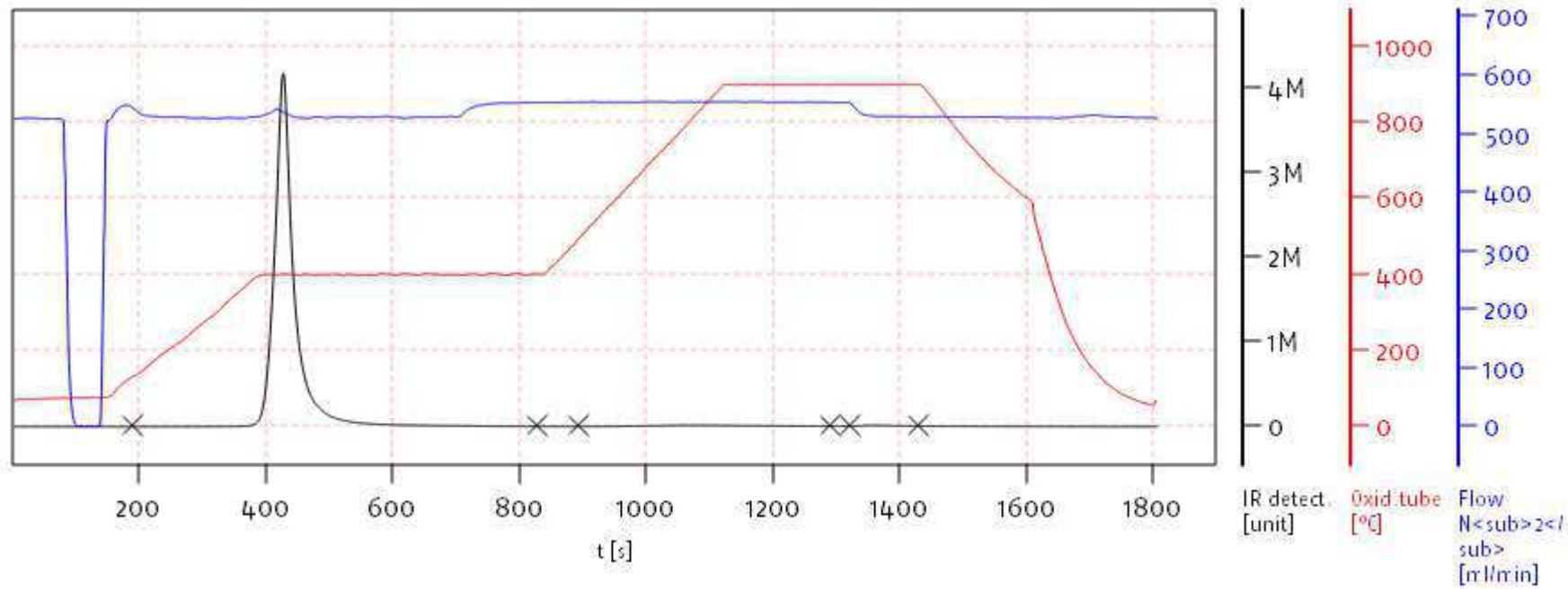
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
100	11	SKL0336-CCV8	19.00		CARBON	12/30/2022 4:52 PM	bl	43.776	5 599 287	44.606	0.102	39 002	128 357	43.675	0.830	0.9619	1.0000



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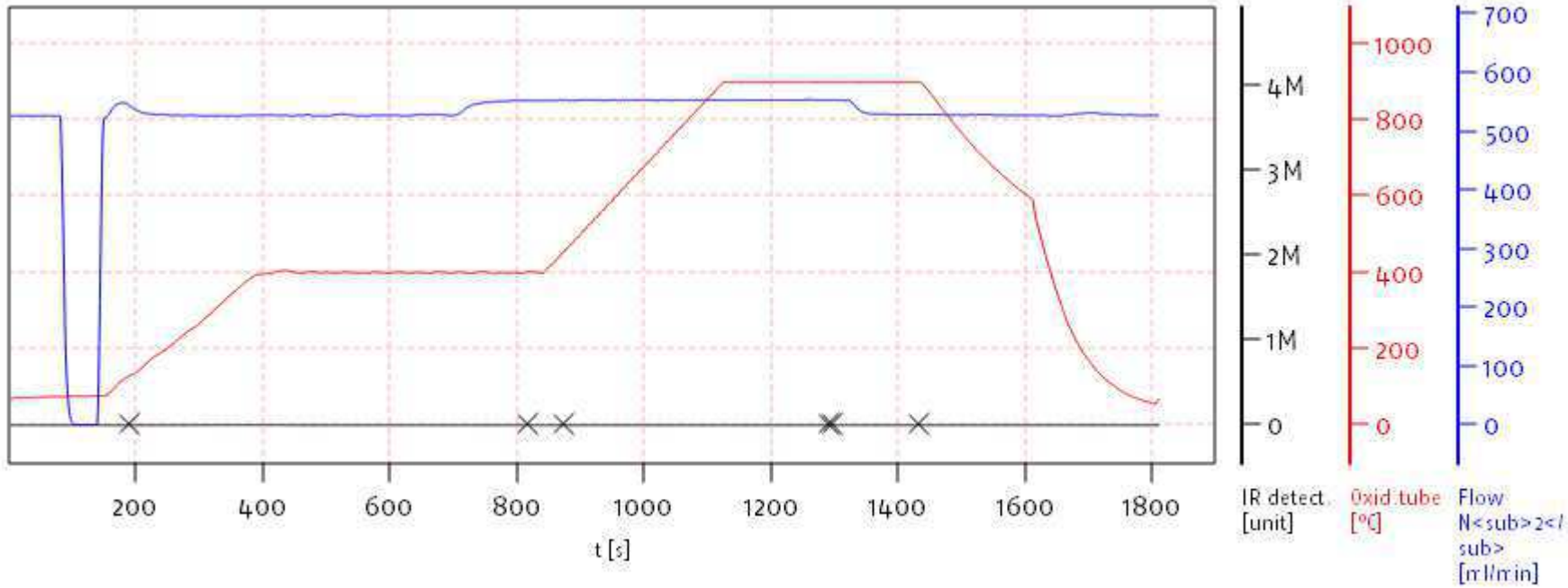
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
101	12	SKL0336-CCB8	508.00		CARBON	12/30/2022 5:23 PM	bl,C3u,C2u	0.000	10 601	0.000	0.000	1 270	233	0.000	0.000	0.9619	1.0000



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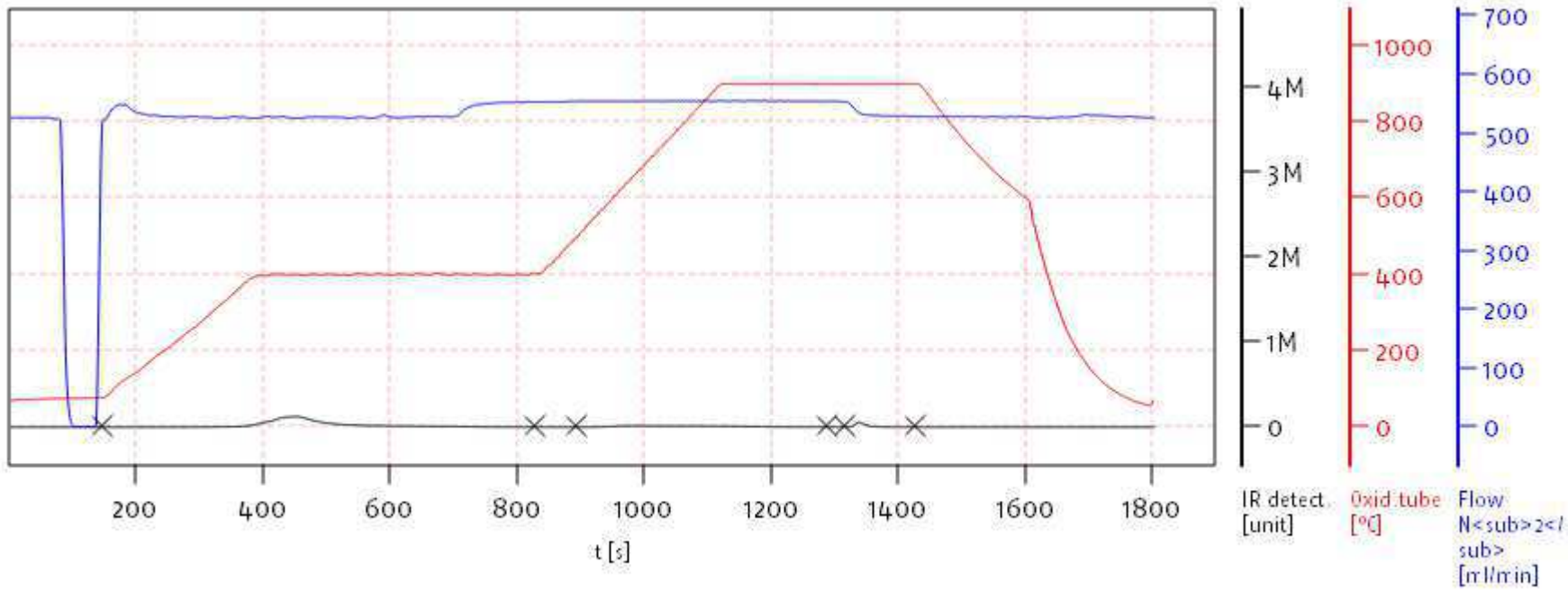
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
102	13	22L0329-01	518.20		CARBON	12/30/2022 5:53 PM	bl	0.150	531 470	0.177	0.005	42 849	116 986	0.145	0.027	0.9619	1.0000



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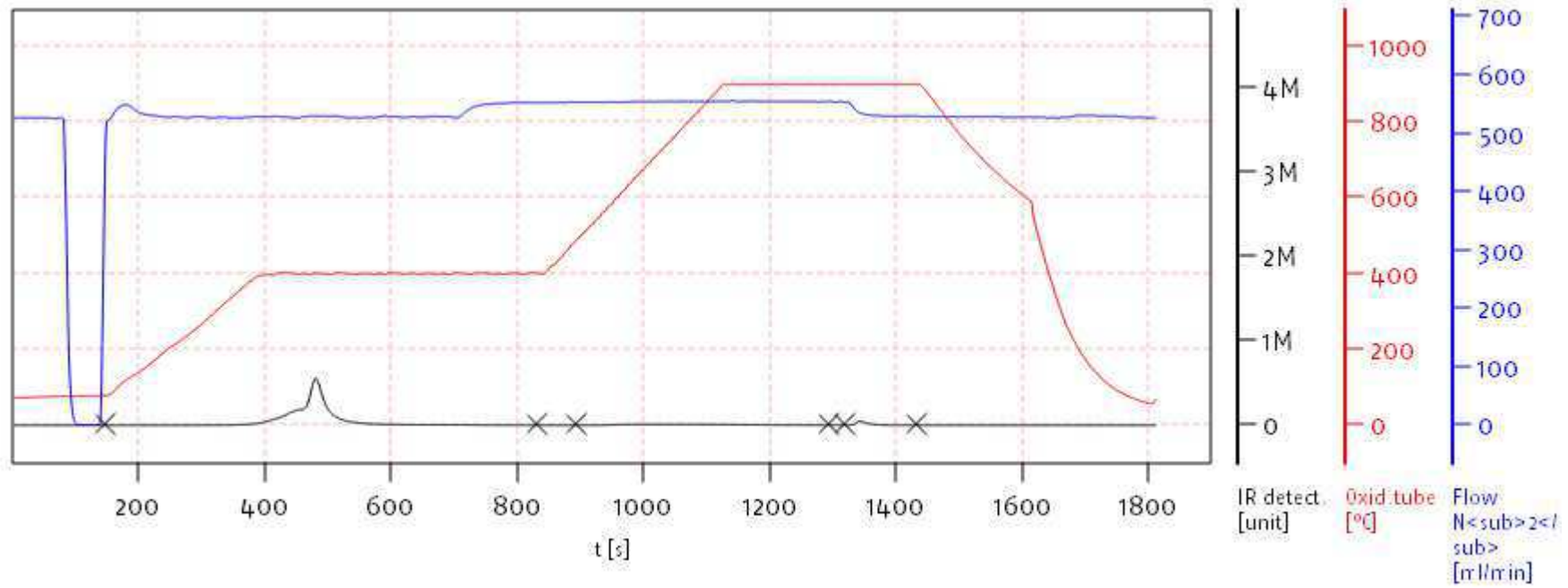
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
103	14	BKL0650-DUP1	513.70		CARBON	12/30/2022 6:24 PM	bl	0.297	1 034 967	0.317	0.004	41 051	94 719	0.292	0.021	0.9619	1.0000



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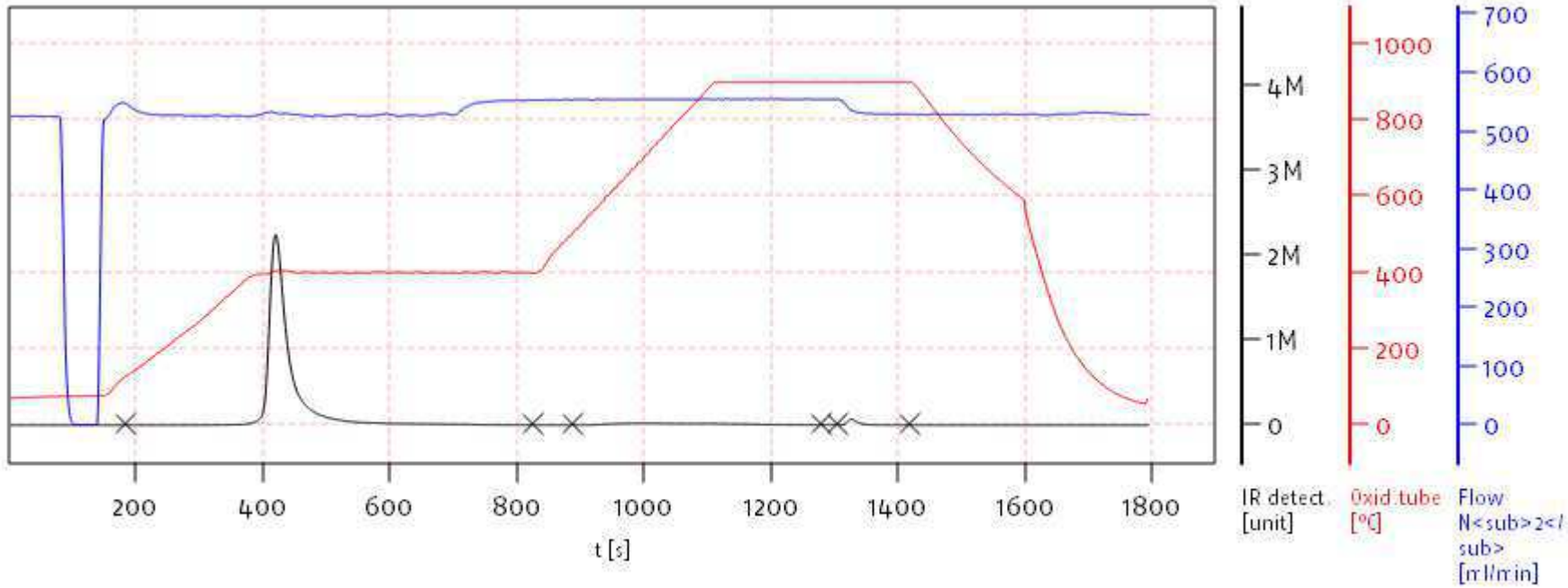
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
104	15	BKL0650-MS1	514.80	0.0084	CARBON	12/30/2022 6:54 PM	bl	0.881	3 045 474	0.926	0.008	52 341	174 645	0.873	0.045	0.9619	1.0000



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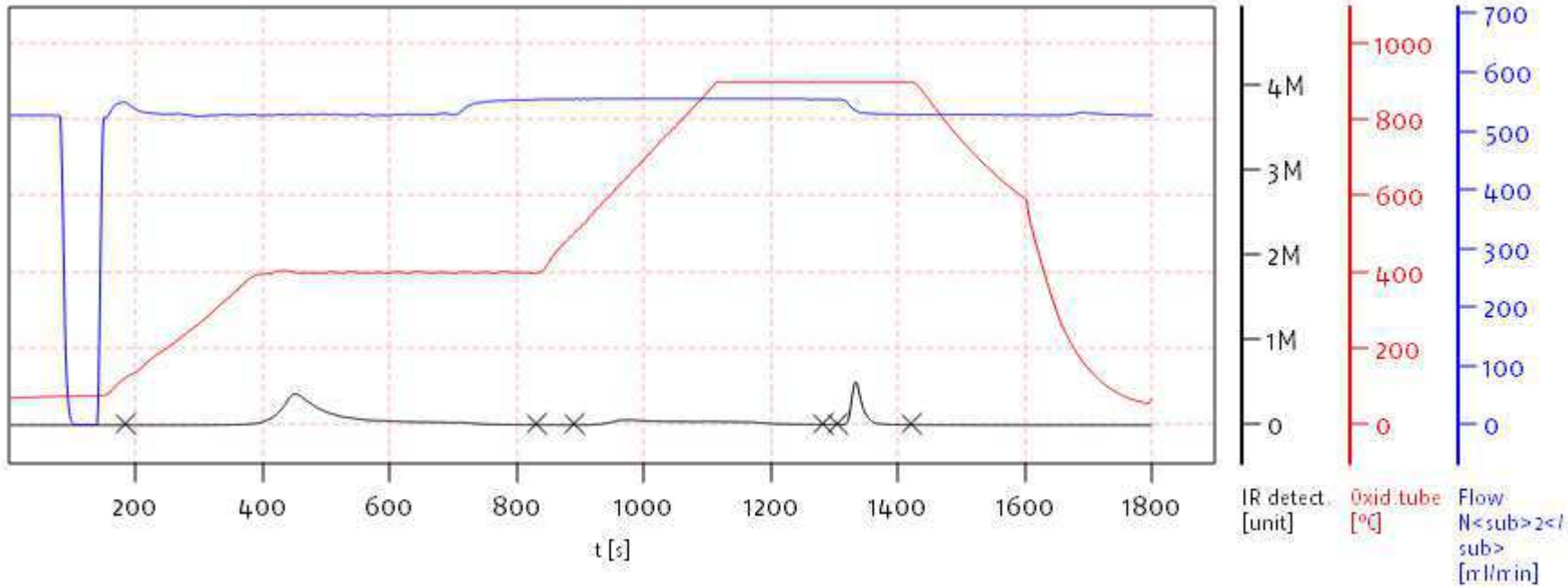
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
105	16	22L0329-02	515.60		CARBON	12/30/2022 7:24 PM	bl	0.494	1 362 305	0.623	0.108	386 919	454 739	0.386	0.129	0.9619	1.0000



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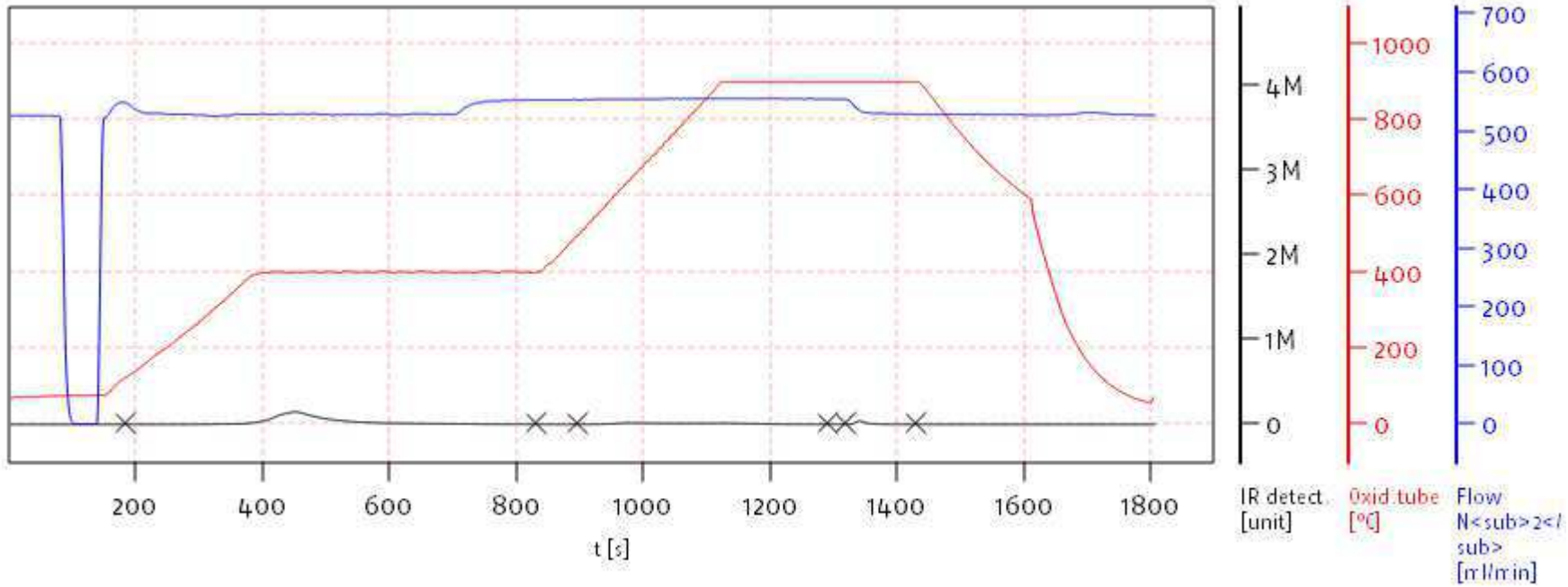
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
106	17	22L0329-03	524.60		CARBON	12/30/2022 7:55 PM	bl	0.165	603 459	0.195	0.002	32 020	127 095	0.164	0.030	0.9619	1.0000



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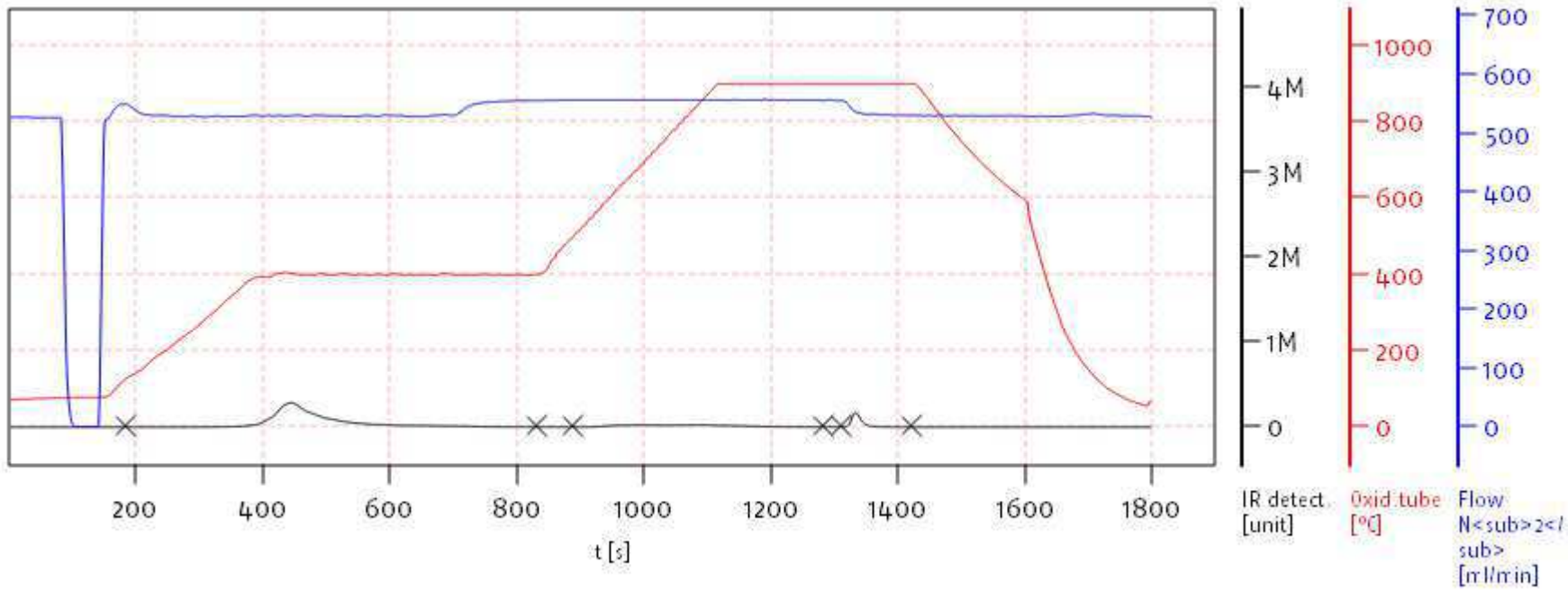
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
107	18	22L0329-04	508.00		CARBON	12/30/2022 8:25 PM	bl	0.315	1 008 067	0.367	0.027	114 928	198 185	0.288	0.052	0.9619	1.0000



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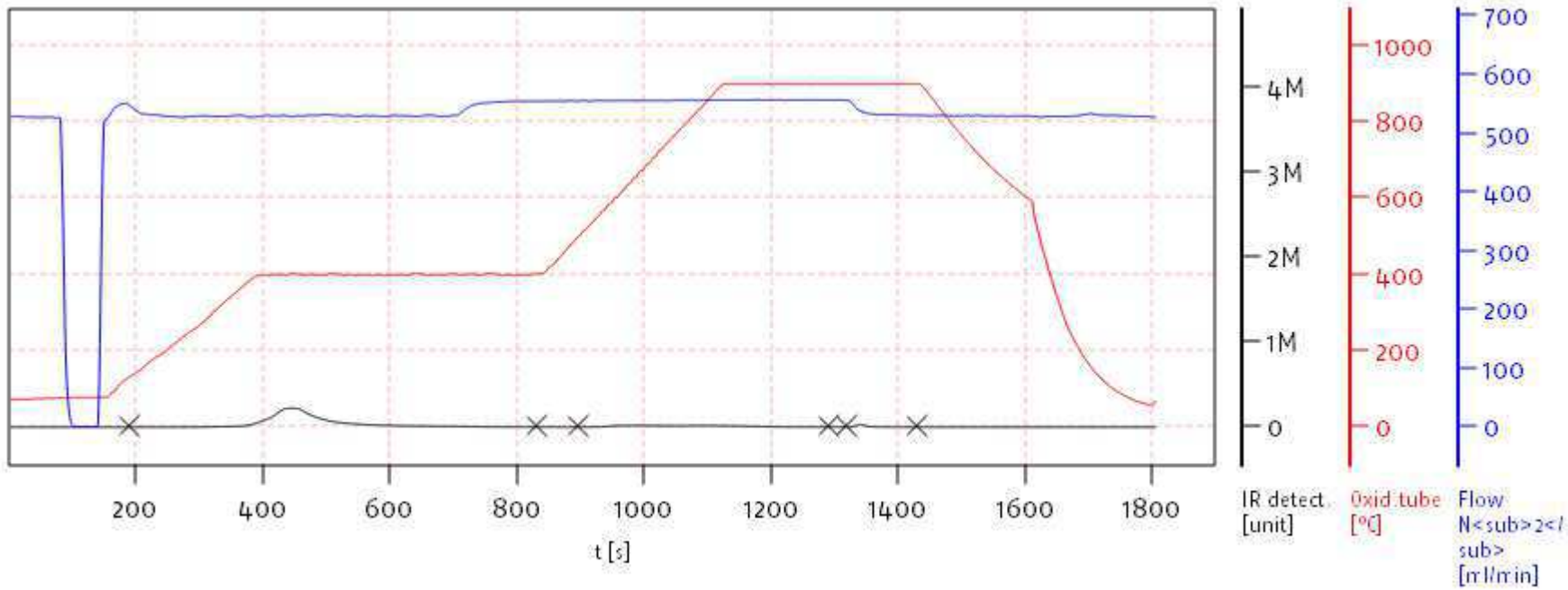
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
108	19	22L0329-05	528.60		CARBON	12/30/2022 8:56 PM	bl	0.236	863 536	0.272	0.000	21 883	149 709	0.236	0.036	0.9619	1.0000



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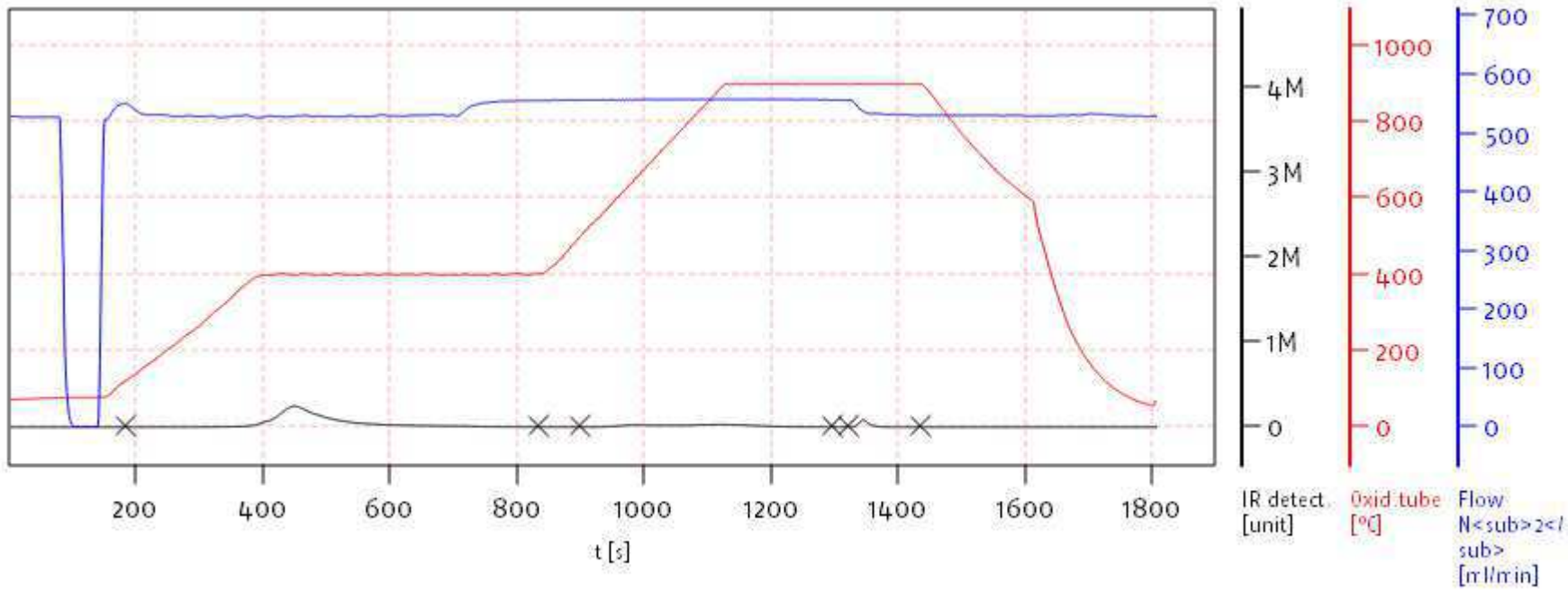
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
109	20	22L0329-06	613.90		CARBON	12/30/2022 9:26 PM	bl	0.233	954 400	0.283	0.008	57 736	223 398	0.225	0.050	0.9619	1.0000



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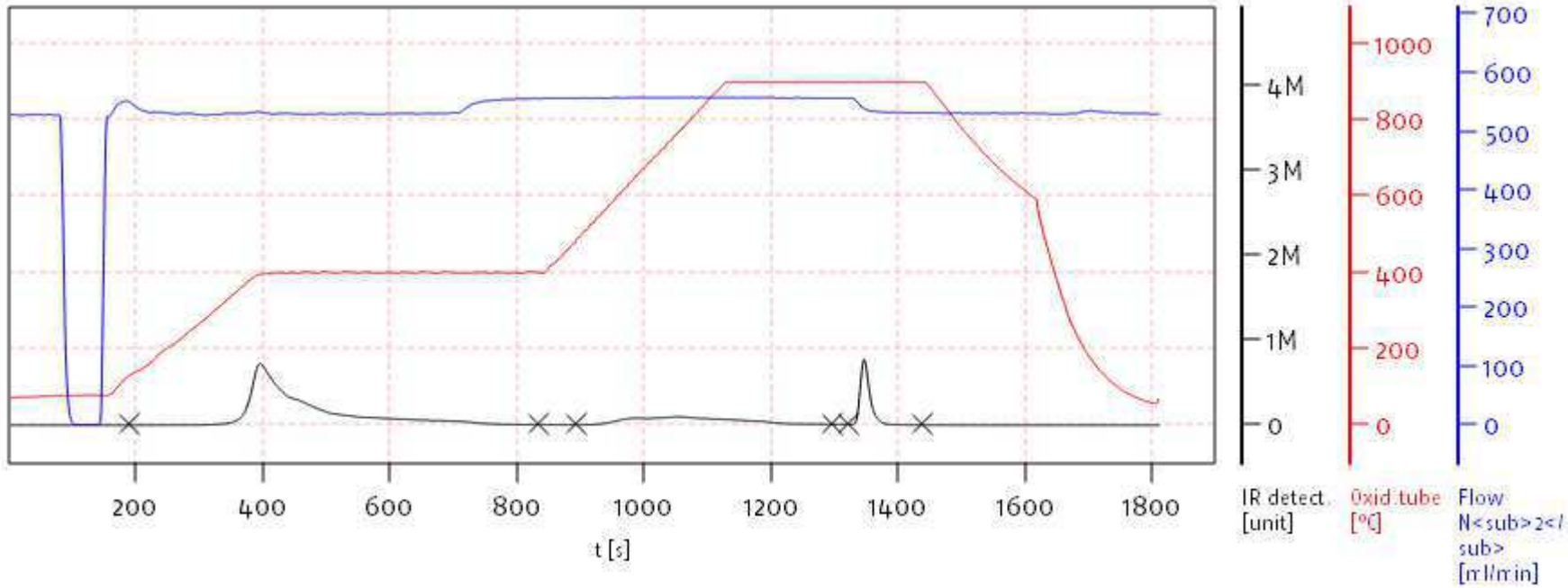
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
110	21	22L0329-07	534.50		CARBON	12/30/2022 9:57 PM	bl	0.866	2 621 611	1.078	0.143	518 883	760 664	0.723	0.213	0.9619	1.0000



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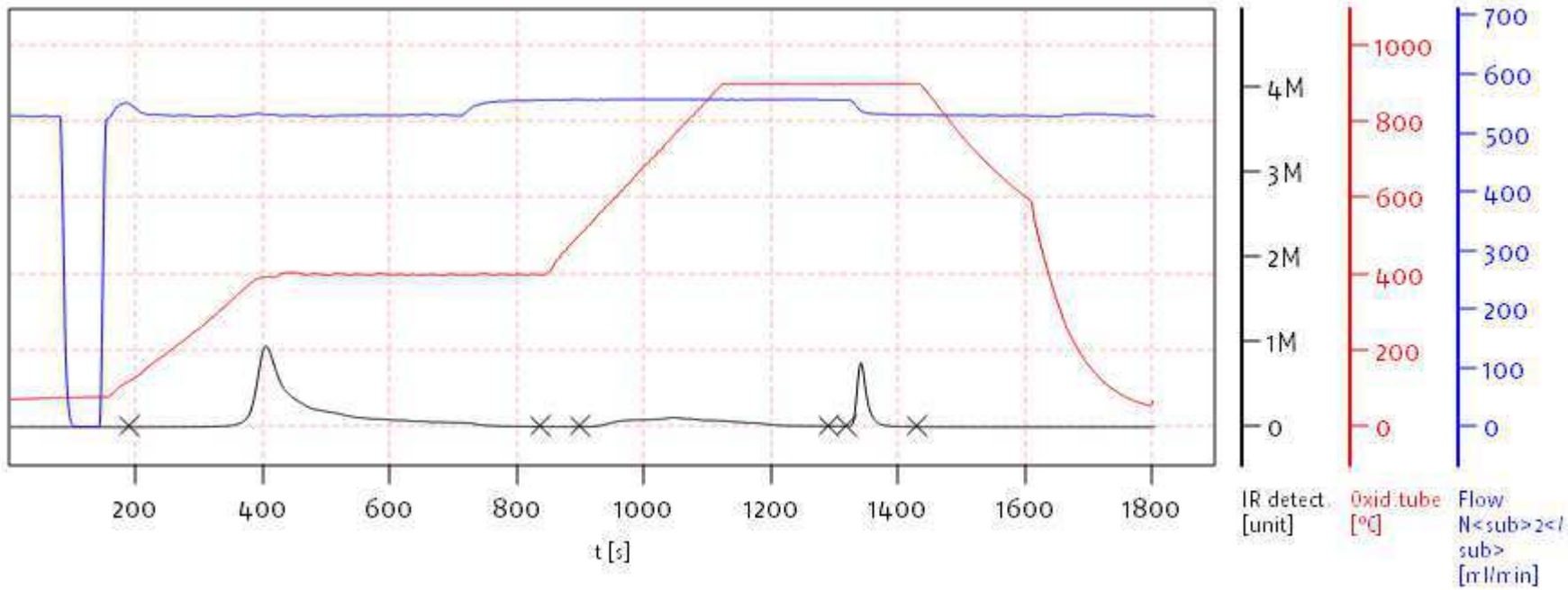
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
111	22	22L0329-08	546.20		CARBON	12/30/2022 10:27 PM	bl	0.927	2 902 928	1.147	0.142	528 790	805 202	0.784	0.221	0.9619	1.0000



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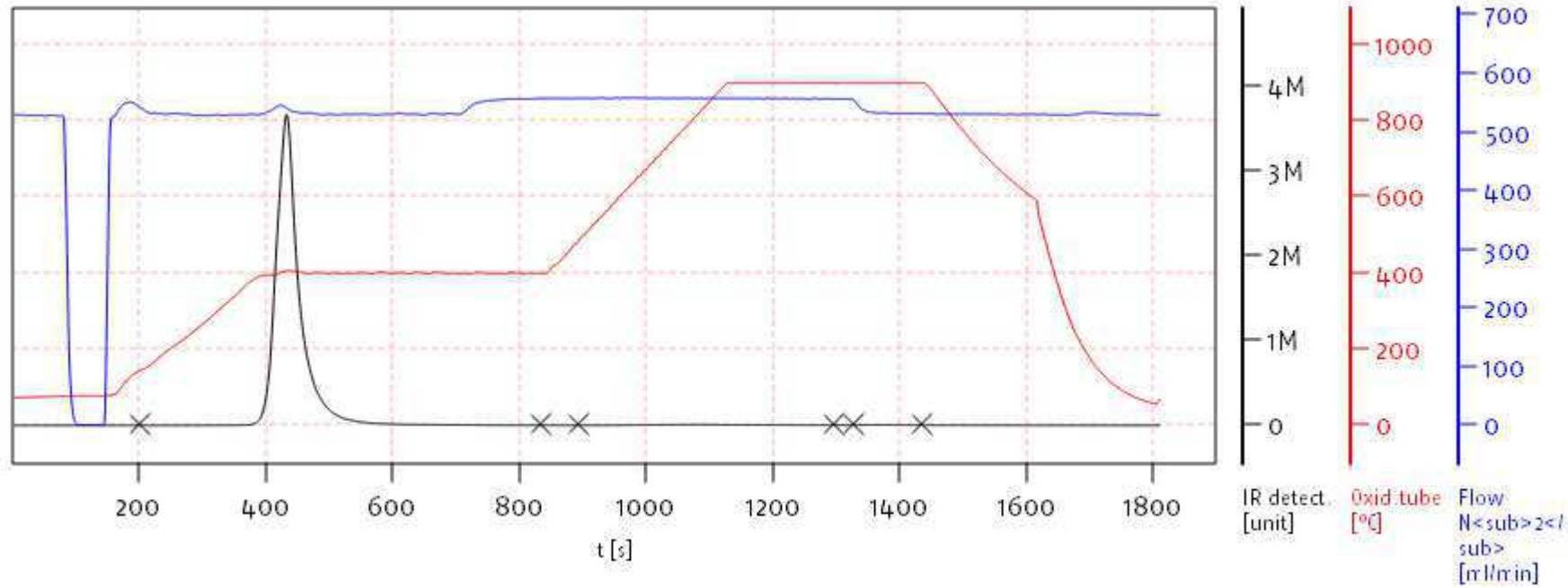
112	23	SKL0336-CCV9	19.60		CARBON	12/30/2022 10:58 PM	bl	44.389	5 869 243	44.777	0.000	18 812	75 632	44.389	0.388	0.9619	1.0000



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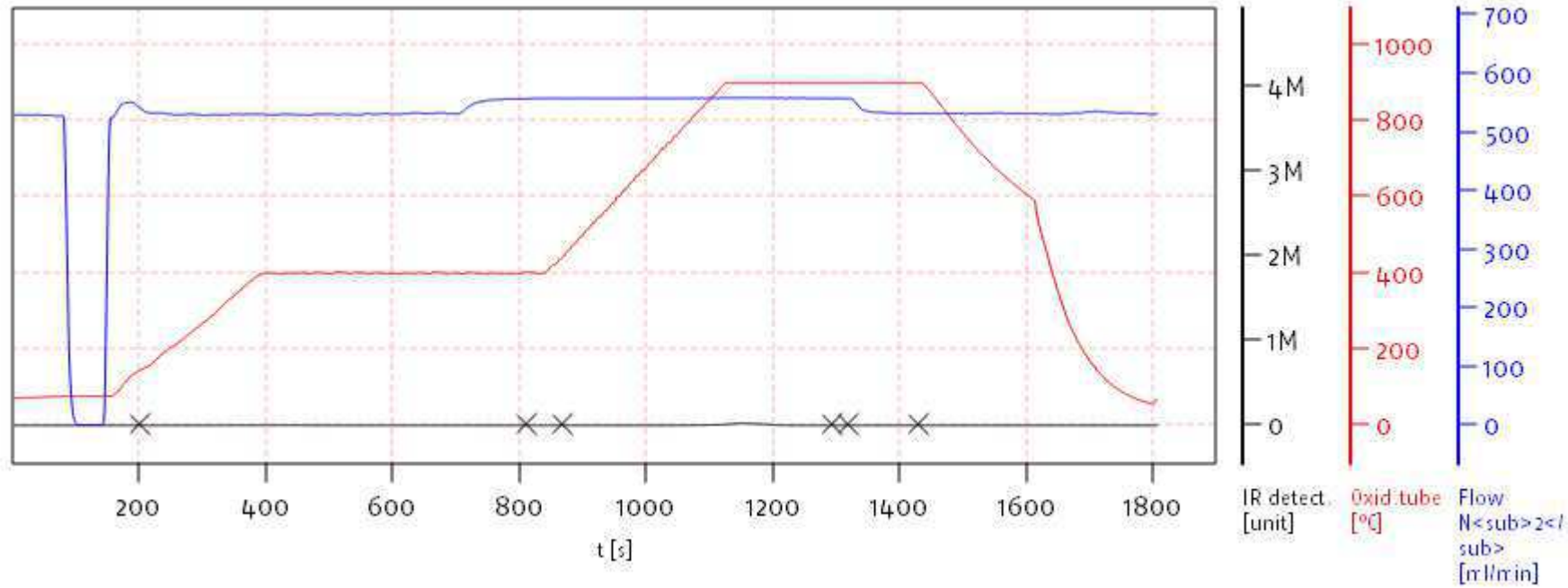
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
113	24	SKL0336-CCB9	507.20		CARBON	12/30/2022 11:29 PM	bl,C2u	0.000	9 554	0.011	0.000	529	64 066	0.000	0.011	0.9619	1.0000



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Balance: BAL3
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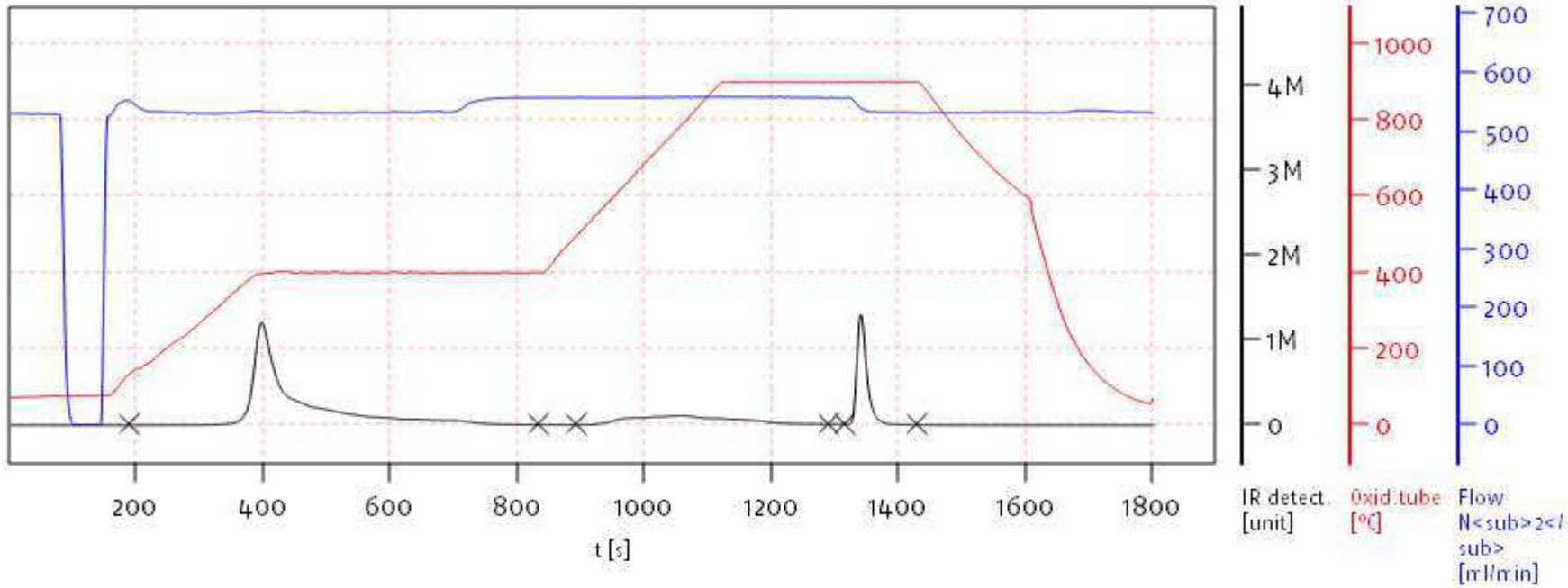
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
114	25	22L0329-09	546.20		CARBON	12/30/2022 11:59 PM	bl	1.091	3 111 915	1.325	0.250	908 740	853 014	0.841	0.234	0.9619	1.0000



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Balance: BAL3
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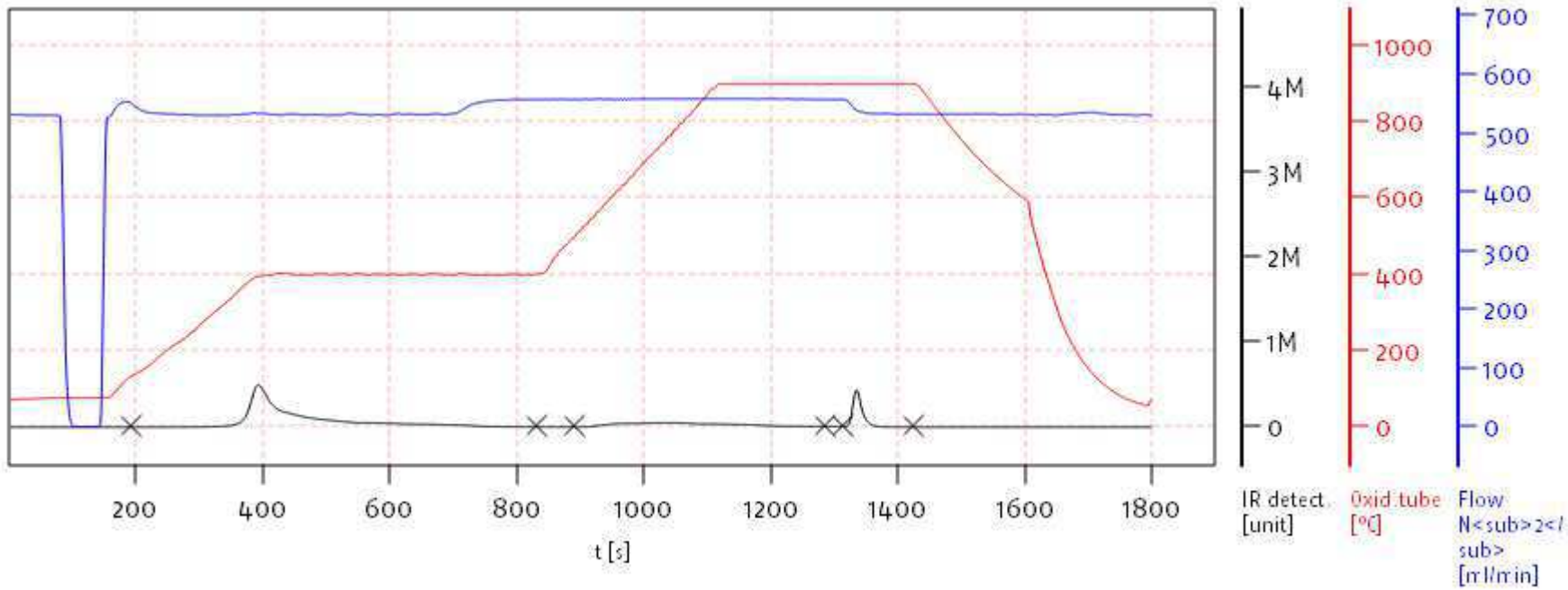
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
115	26	22L0329-10	256.20		CARBON	12/31/2022 12:29 AM	bl	0.995	1 470 989	1.231	0.155	283 108	417 586	0.840	0.236	0.9619	1.0000



Name:

Access: soliTOC superuser

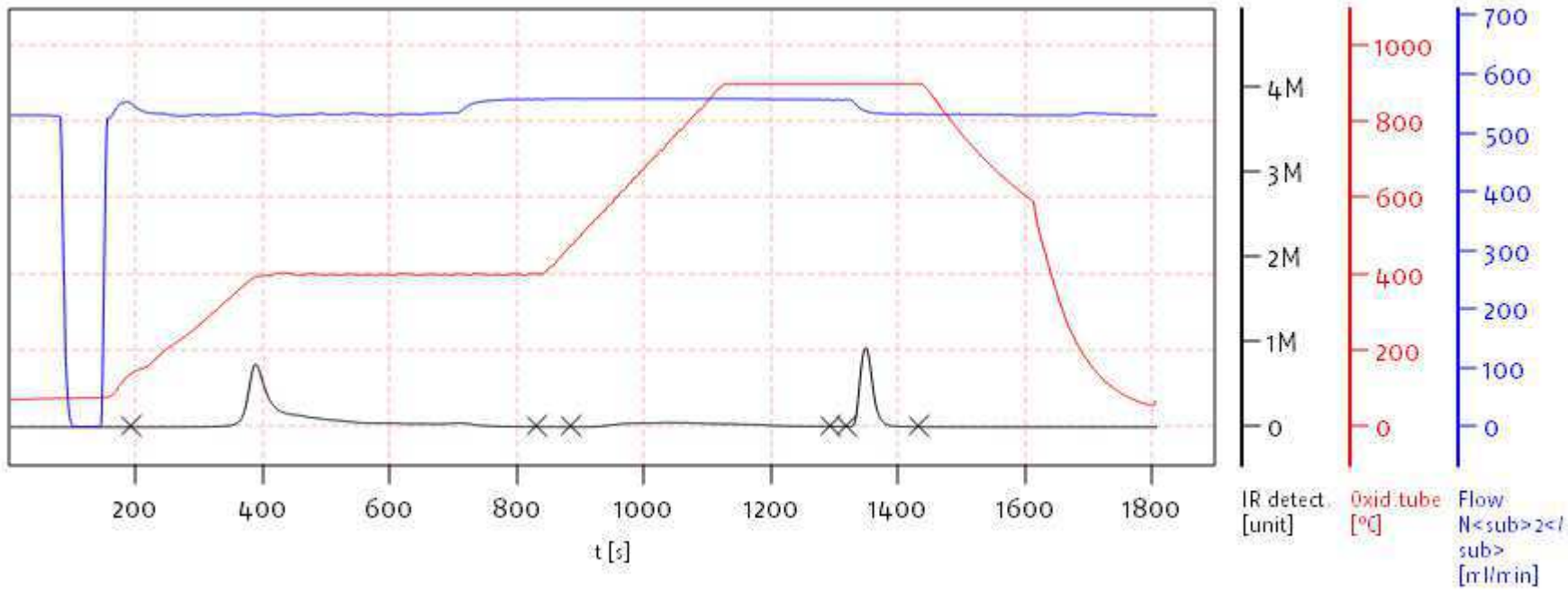
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
116	27	22L0329-11	241.70		CARBON	12/31/2022 1:00 AM	bl	1.612	1 810 491	1.874	0.513	827 096	435 226	1.099	0.262	0.9619	1.0000



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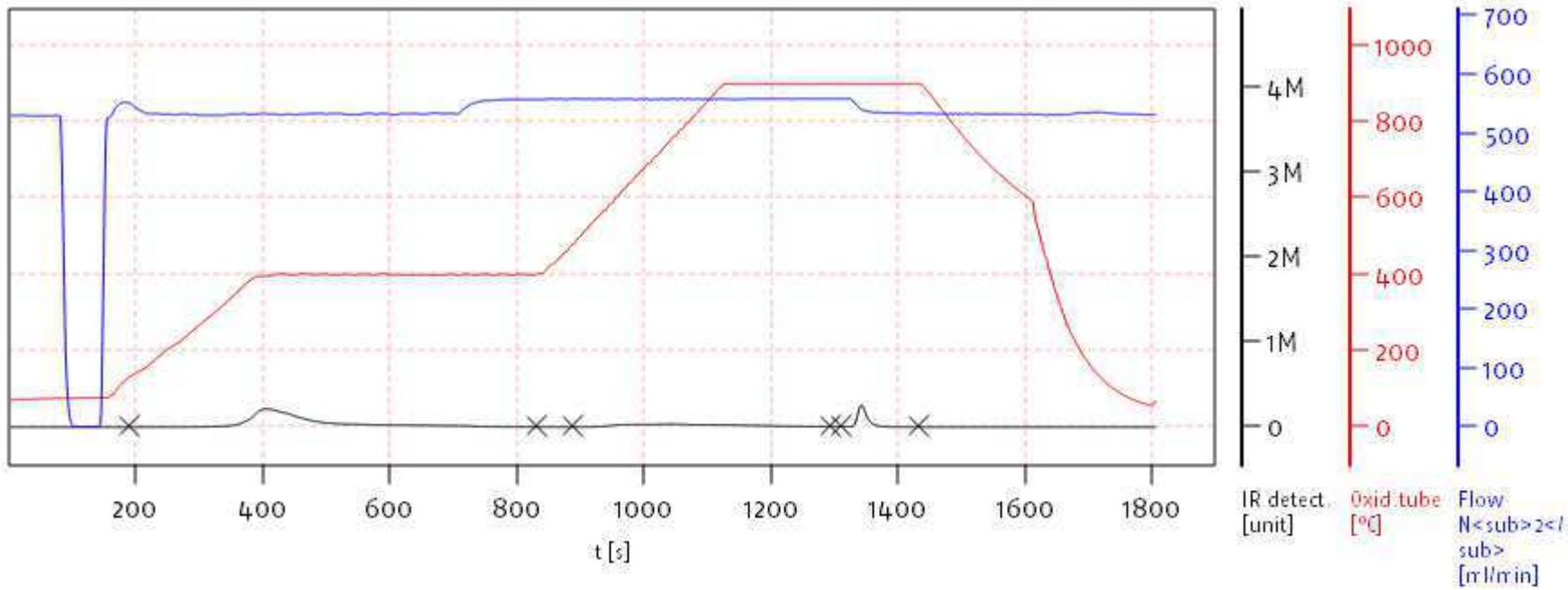
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
117	28	22L0329-12	221.00		CARBON	12/31/2022 1:30 AM	bl	0.704	917 724	0.890	0.103	173 951	291 739	0.600	0.186	0.9619	1.0000



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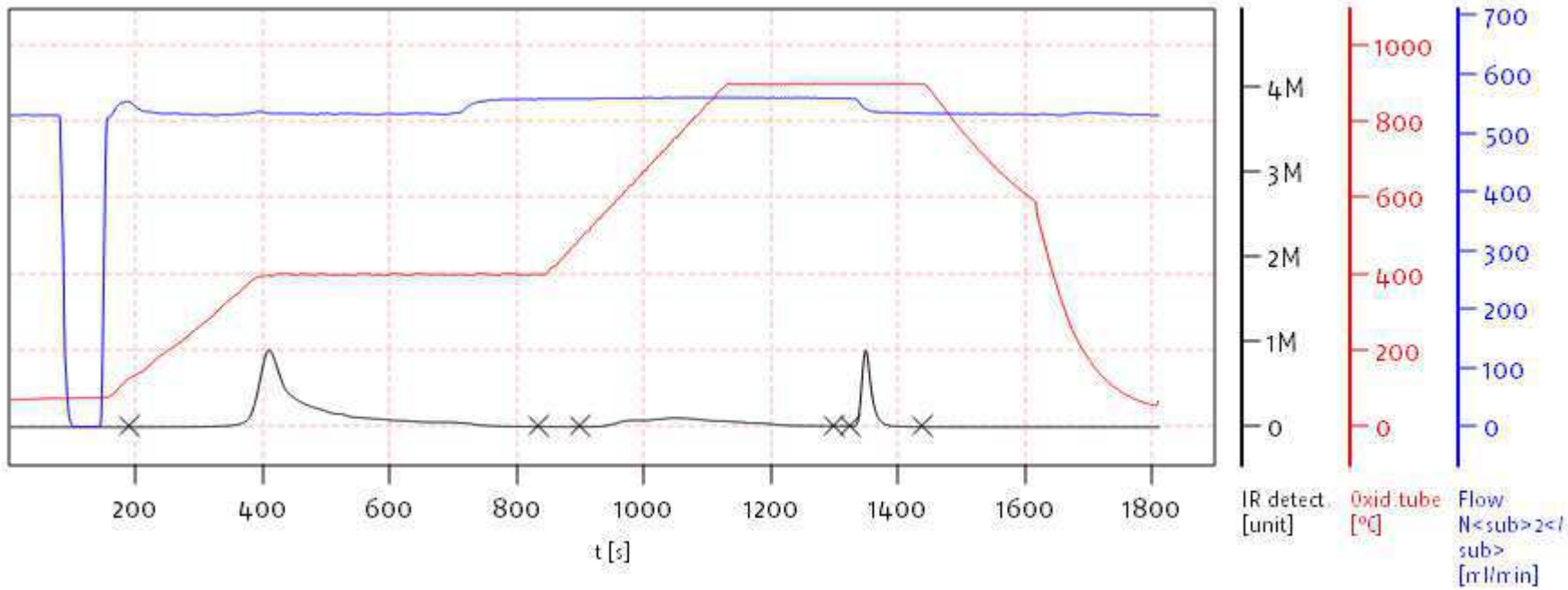
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
118	29	22L0329-13	501.30		CARBON	12/31/2022 2:01 AM	bl	1.013	2 821 698	1.248	0.183	618 261	787 868	0.830	0.235	0.9619	1.0000



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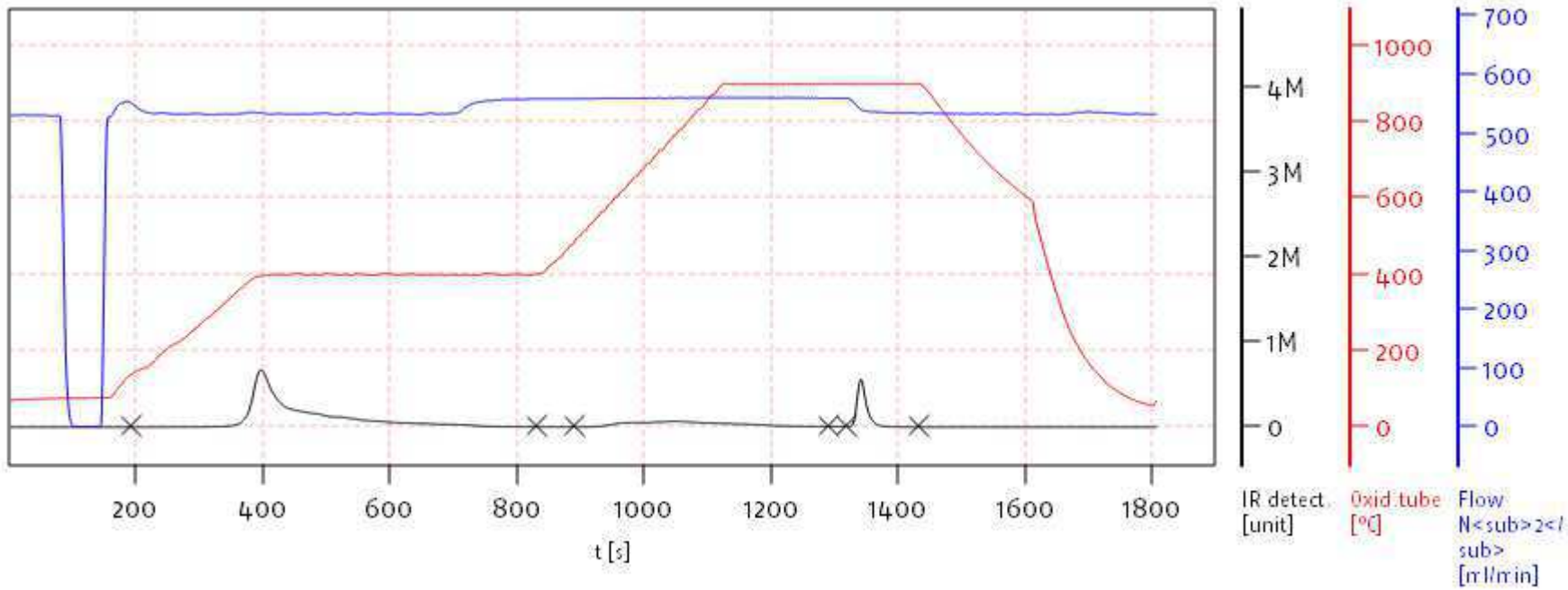
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
119	30	22L0329-14	339.00		CARBON	12/31/2022 2:32 AM	bl	1.034	2 022 757	1.249	0.157	370 905	497 776	0.877	0.215	0.9619	1.0000



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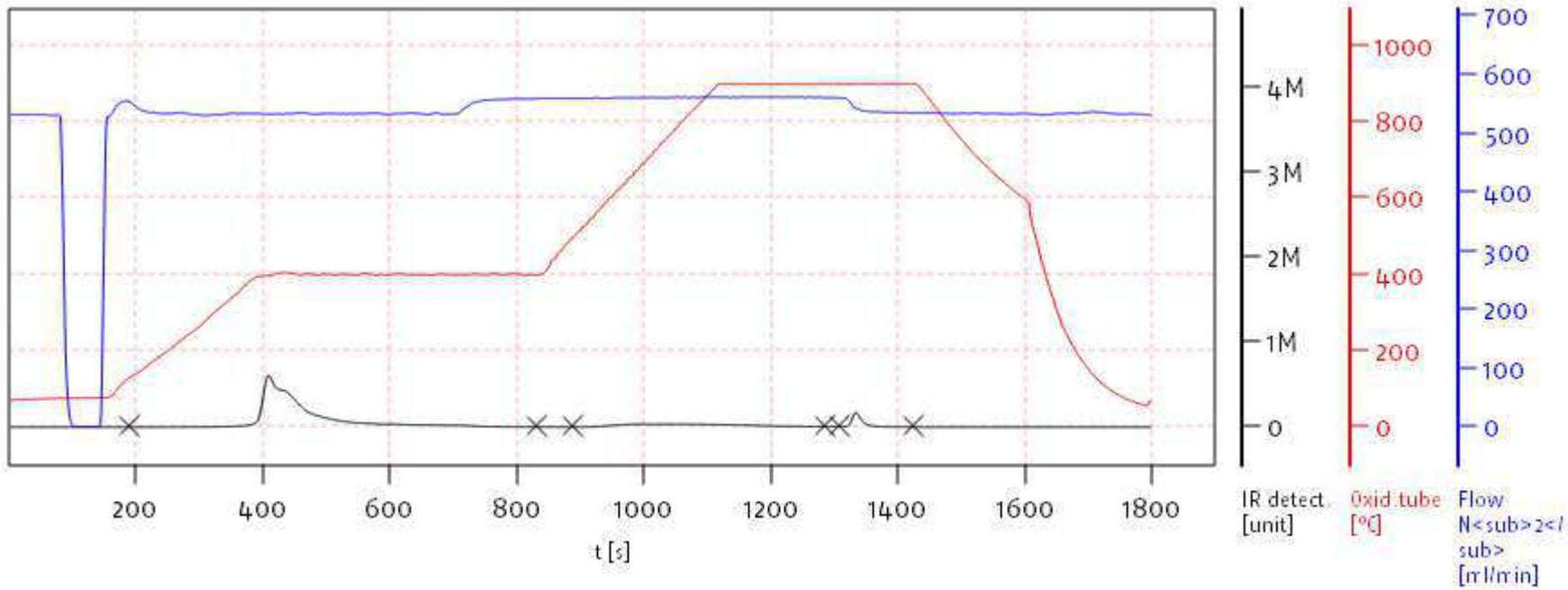
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
120	31	22L0329-15	571.30		CARBON	12/31/2022 3:02 AM	bl	0.450	1 653 653	0.527	0.026	122 804	308 545	0.424	0.076	0.9619	1.0000



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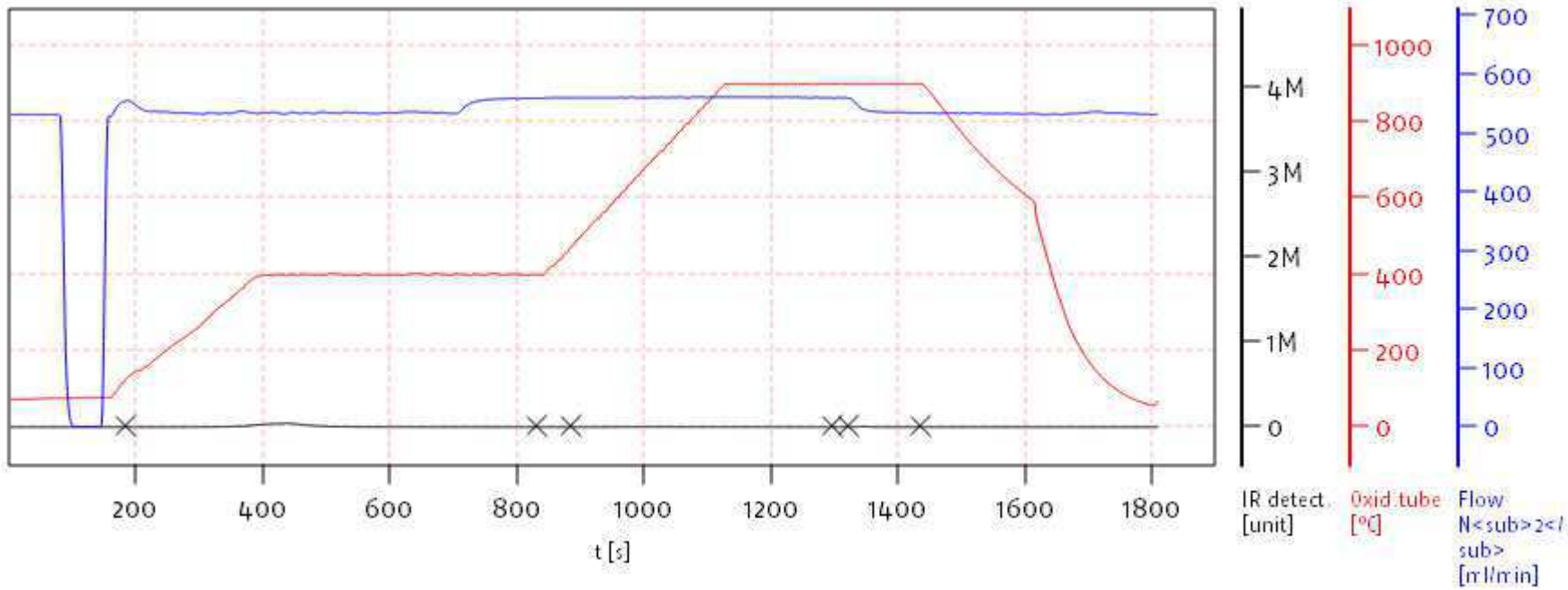
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
121	32	22L0329-16	507.10		CARBON	12/31/2022 3:32 AM	bl	0.043	174 384	0.043	0.000	5 954	18 736	0.043	0.000	0.9619	1.0000



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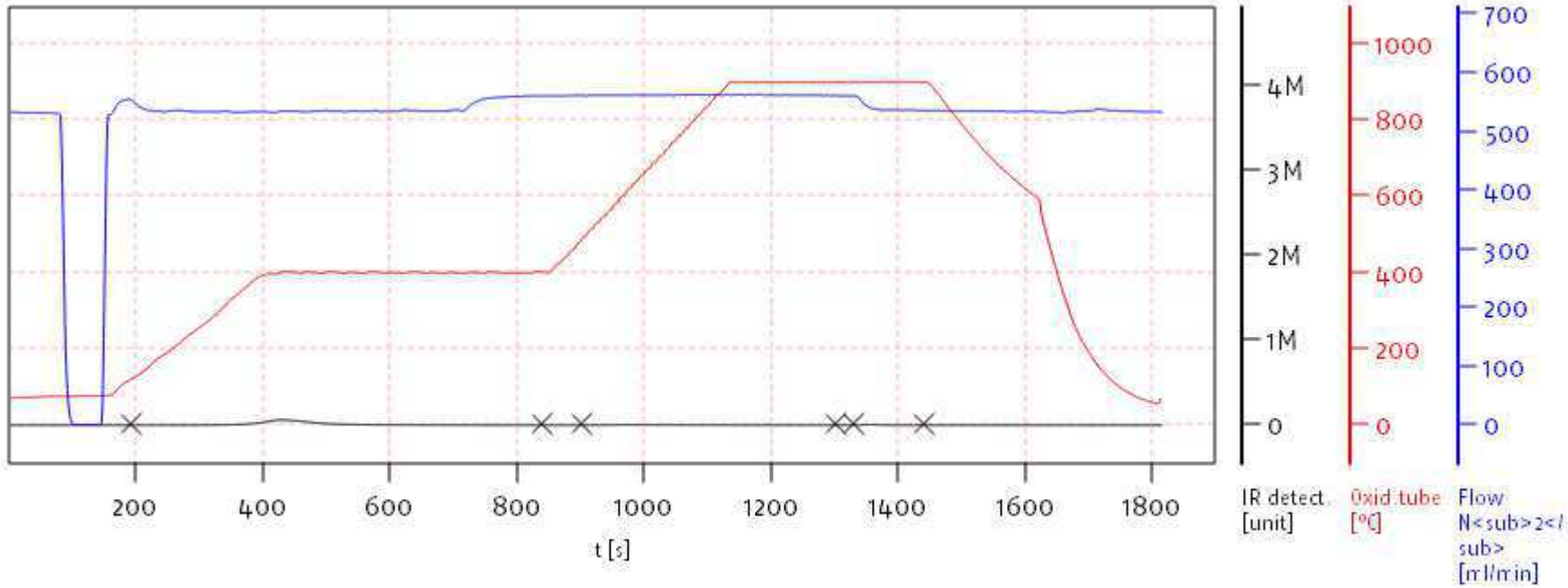
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
122	33	22L0329-17	513.30		CARBON	12/31/2022 4:03 AM	bl	0.061	237 886	0.061	0.000	6 649	22 472	0.061	0.000	0.9619	1.0000



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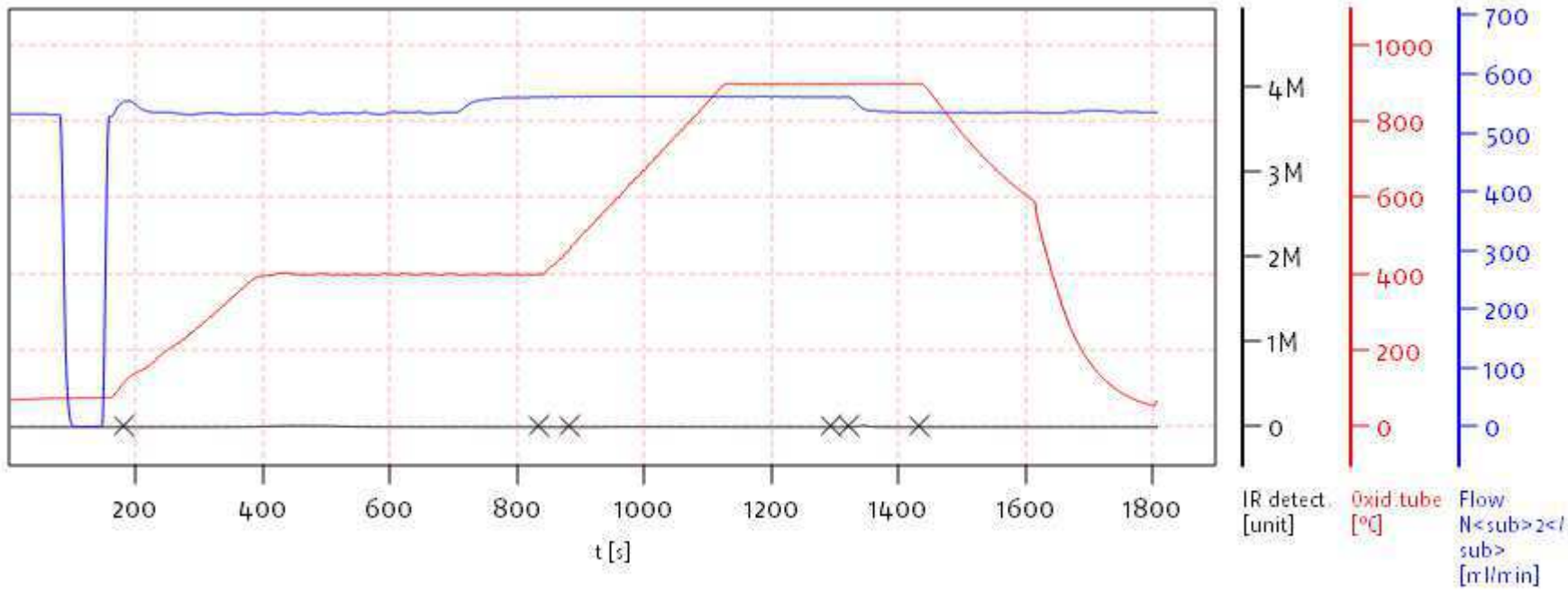
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
123	34	22L0329-18	598.10		CARBON	12/31/2022 4:34 AM	bl	0.013	77 820	0.013	0.000	11 840	19 189	0.013	0.000	0.9619	1.0000



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EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
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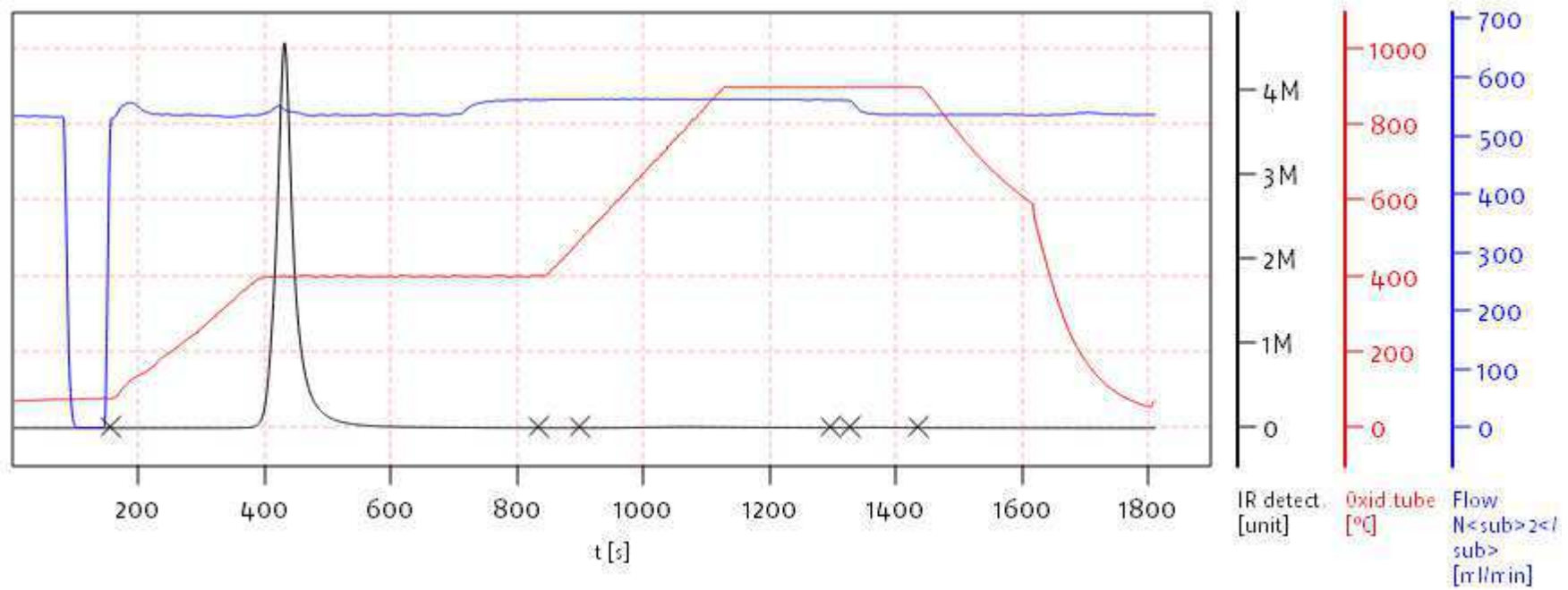
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
124	35	SKL0336-CCVA	19.50		CARBON	12/31/2022 5:04 AM	bl	44.664	5 875 431	45.266	0.000	22 023	102 349	44.664	0.602	0.9619	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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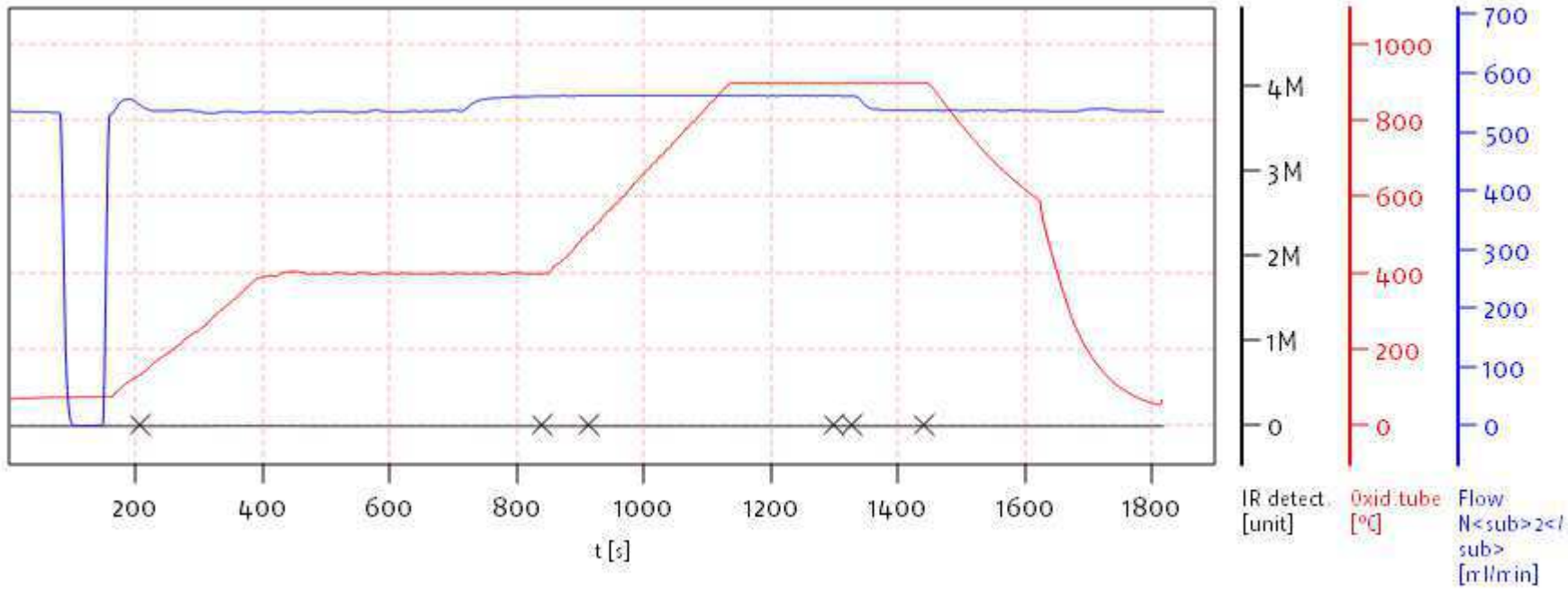
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
125	36	SKL0336-CCBA	508.40		CARBON	12/31/2022 5:35 AM	bl,C3u,C2u	0.000	9 800	0.000	0.000	554	177	0.000	0.000	0.9619	1.0000



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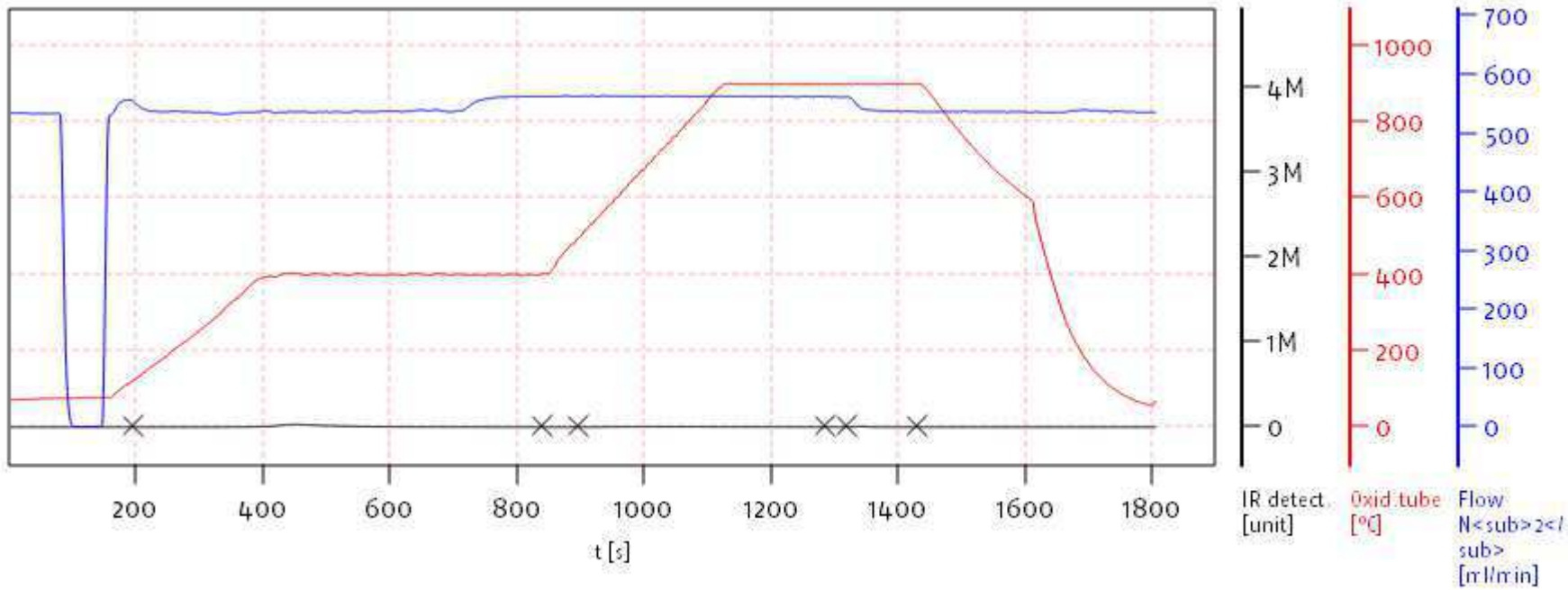
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
126	37	22L0329-19	592.80		CARBON	12/31/2022 6:05 AM	bl	0.028	138 363	0.032	0.000	7 518	40 045	0.028	0.004	0.9619	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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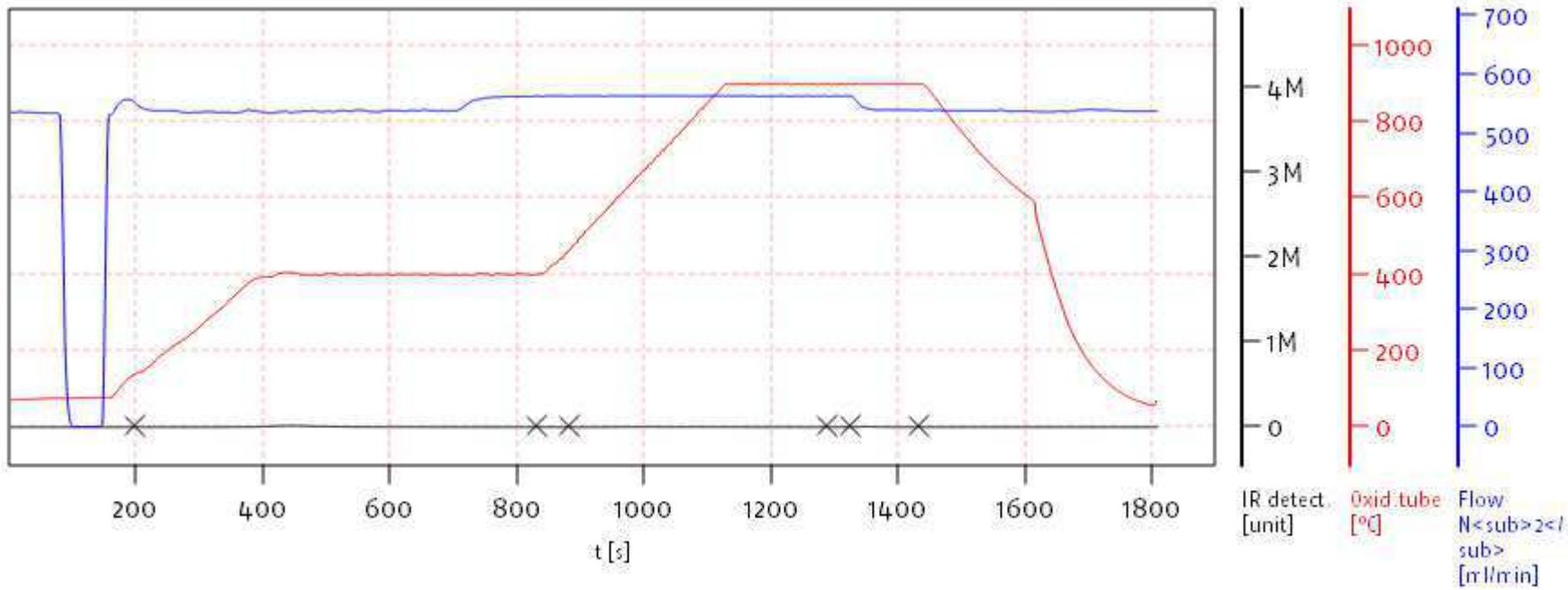
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
127	38	22L0329-20	551.60		CARBON	12/31/2022 6:36 AM	bl	0.012	71 600	0.012	0.000	6 762	18 798	0.012	0.000	0.9619	1.0000



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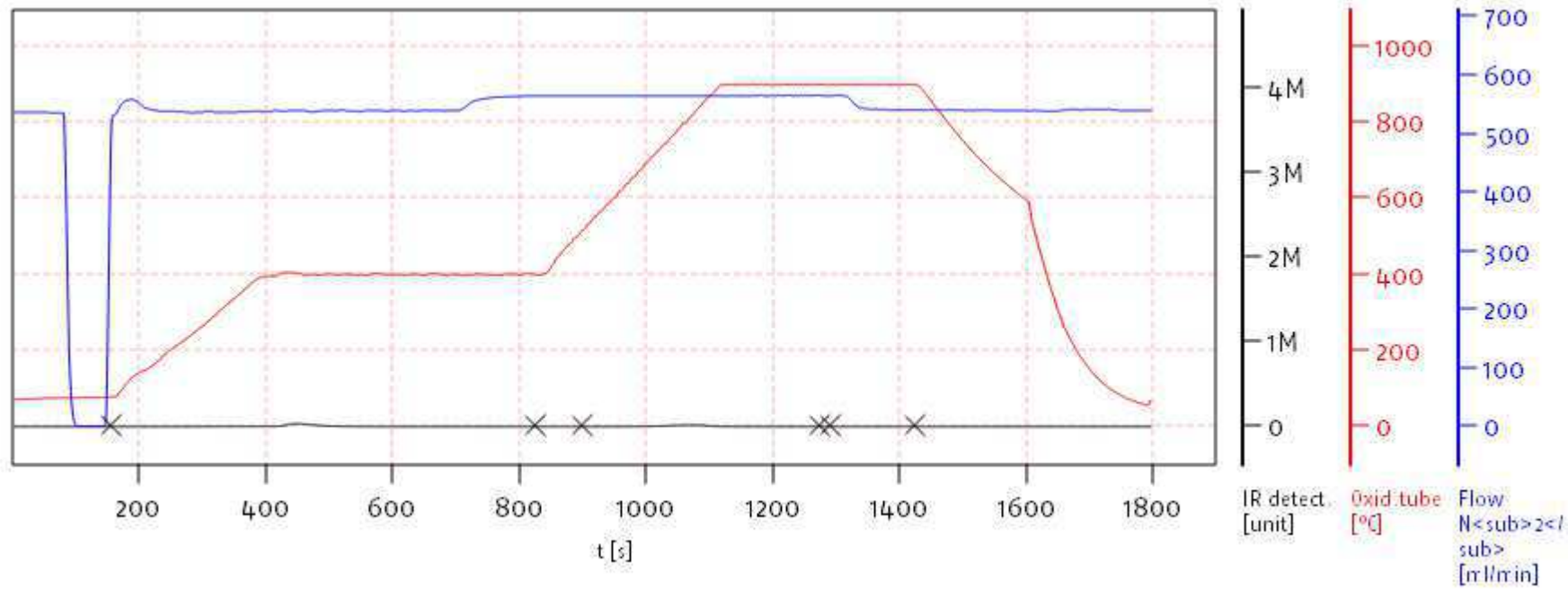
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
128	39	BKL0651-MRL1	541.30		CARBON	12/31/2022 7:06 AM	bl,C2u	0.015	81 393	0.022	0.000	585	52 060	0.015	0.007	0.9619	1.0000



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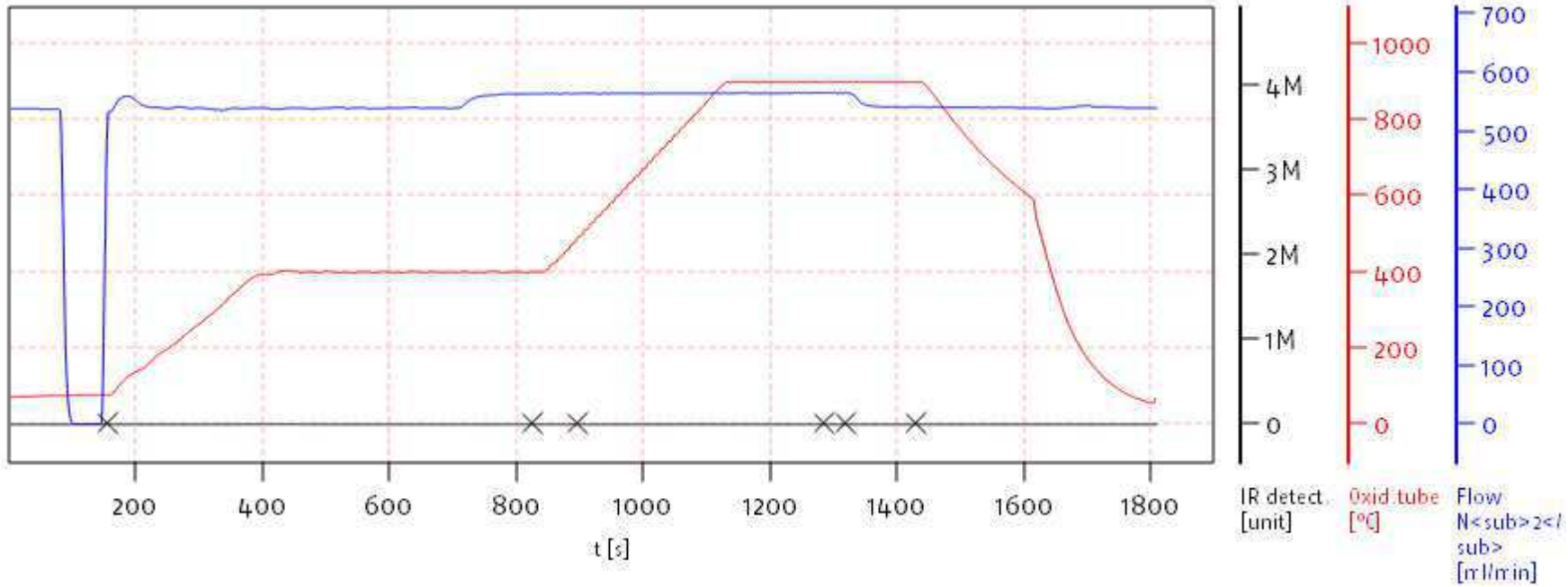
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
129	40	BKL0651-BLK1	520.80		CARBON	12/31/2022 7:37 AM	bl,C2u	0.000	9 085	0.000	0.000	342	5 285	0.000	0.000	0.9619	1.0000



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Balance: BAL3
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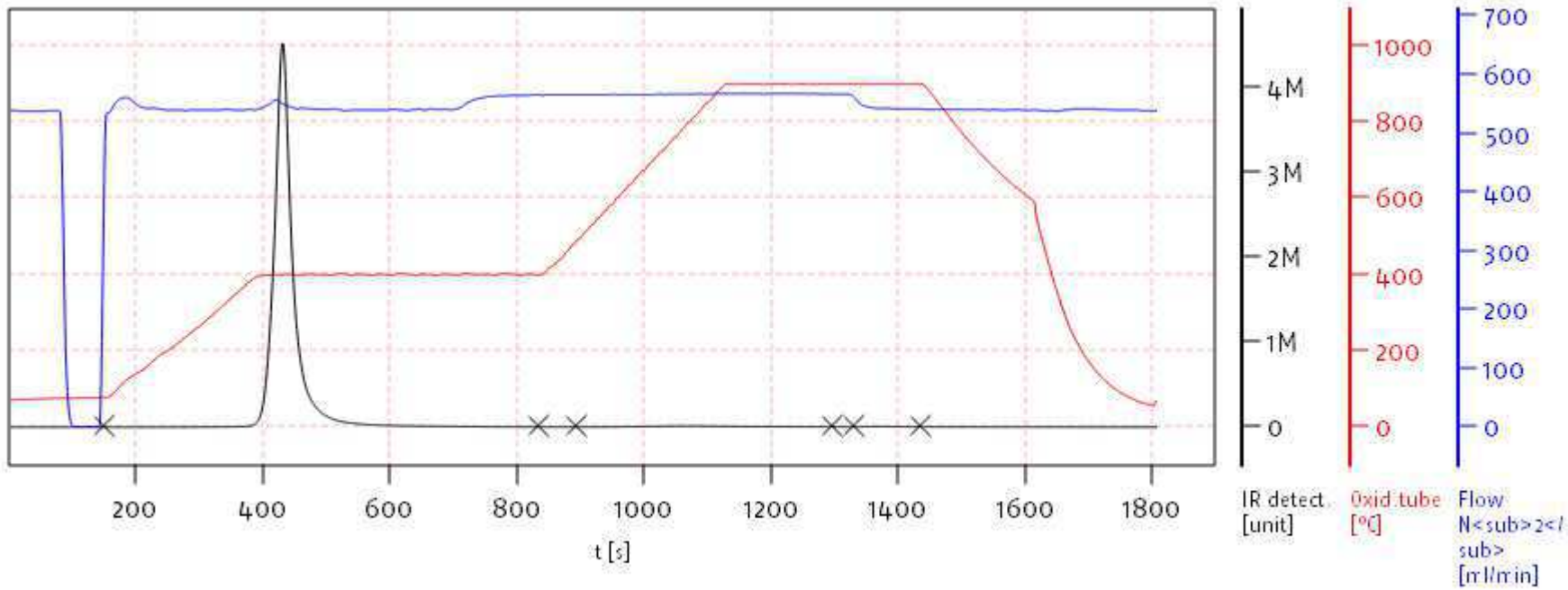
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
130	41	BKL0651-BS1	19.40		CARBON	12/31/2022 8:07 AM	bl	44.366	5 806 715	44.931	0.000	21 895	97 256	44.366	0.564	0.9619	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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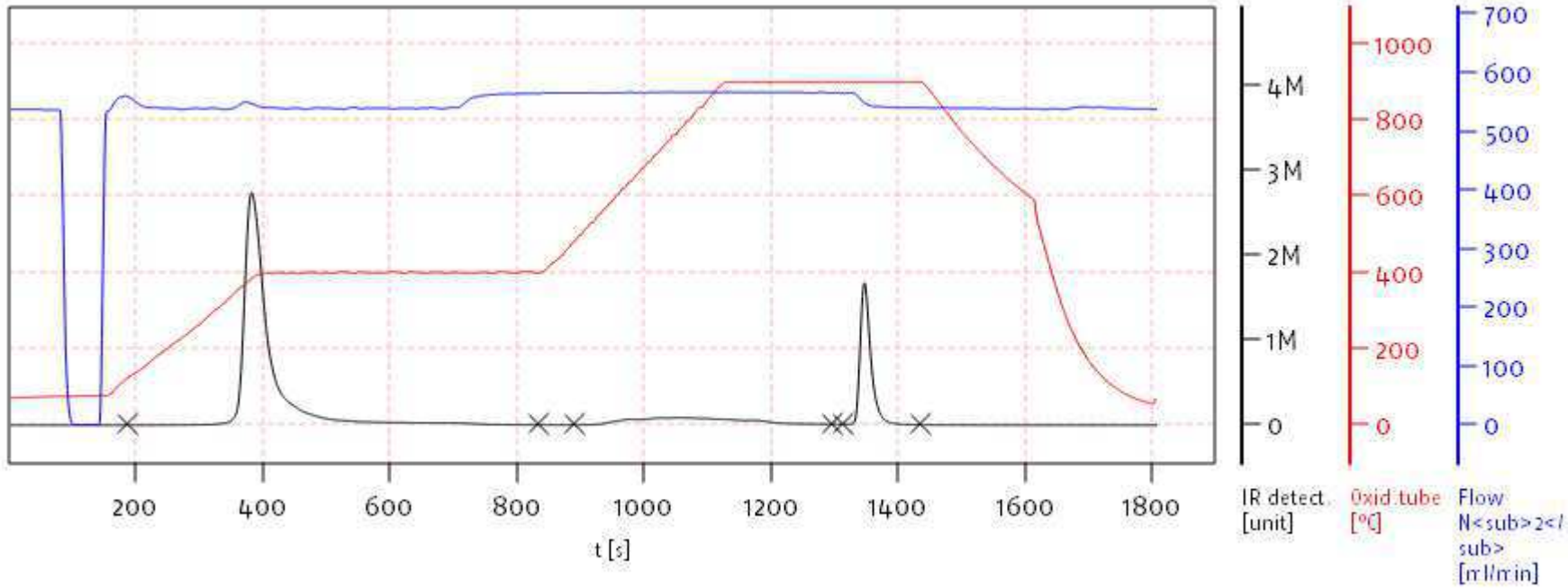
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
131	42	BKL0651-SRM1	285.60		CARBON	12/31/2022 8:38 AM	bl	2.988	4 496 099	3.372	0.658	1 240 705	734 282	2.330	0.384	0.9619	1.0000



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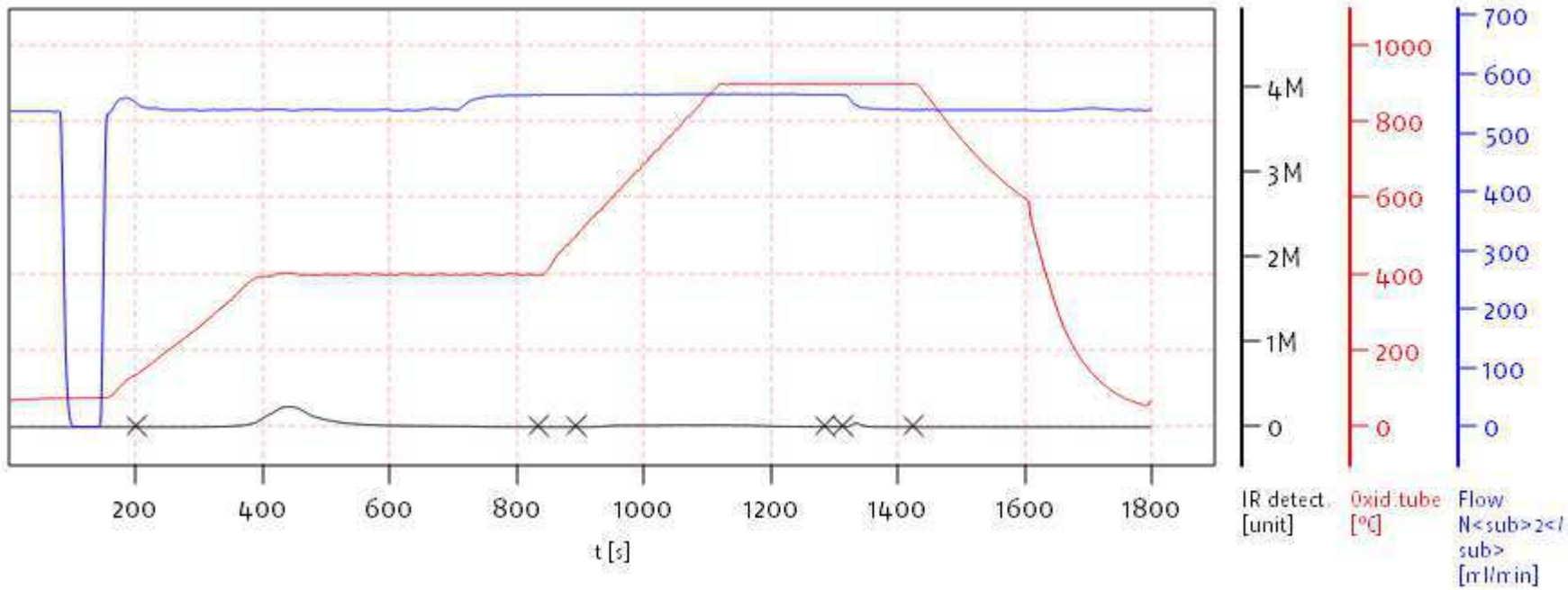
Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
132	43	22L0329-21	534.70		CARBON	12/31/2022 9:08 AM	bl	0.258	945 095	0.312	0.002	34 300	212 798	0.256	0.054	0.9619	1.0000



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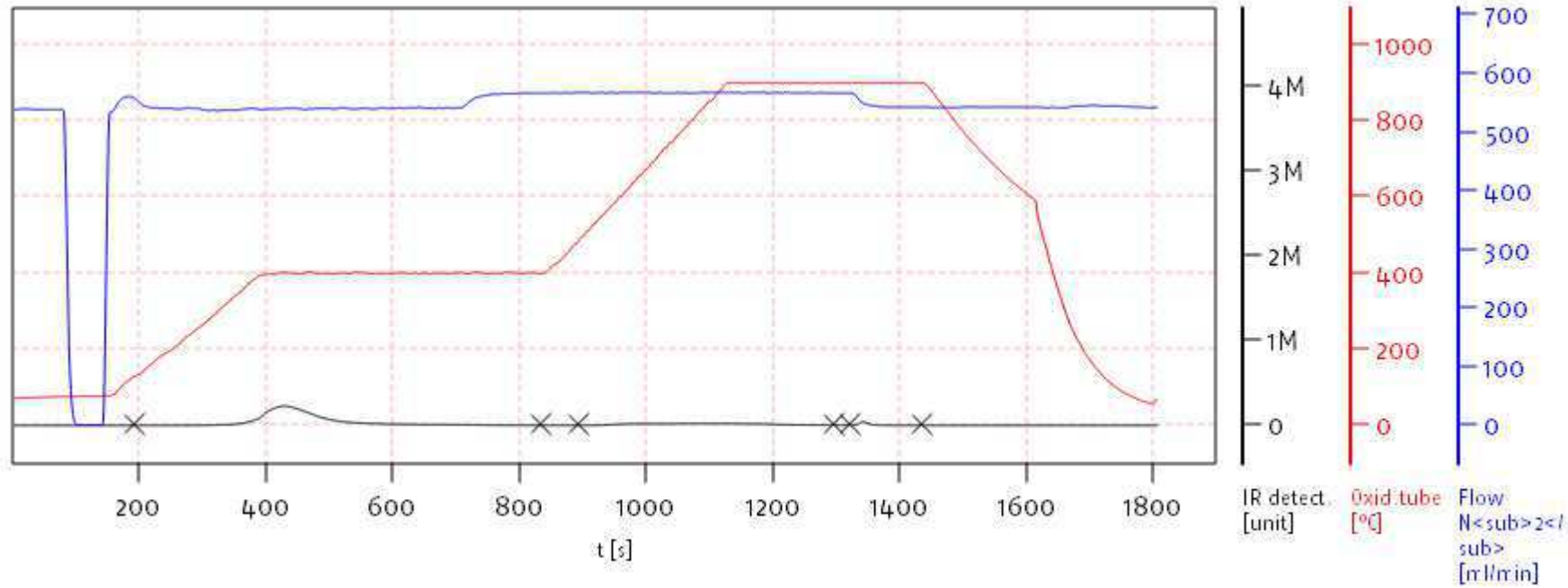
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
133	44	BKL0651-DUP1	509.30		CARBON	12/31/2022 9:39 AM	bl	0.265	928 894	0.320	0.001	29 447	208 309	0.264	0.055	0.9619	1.0000



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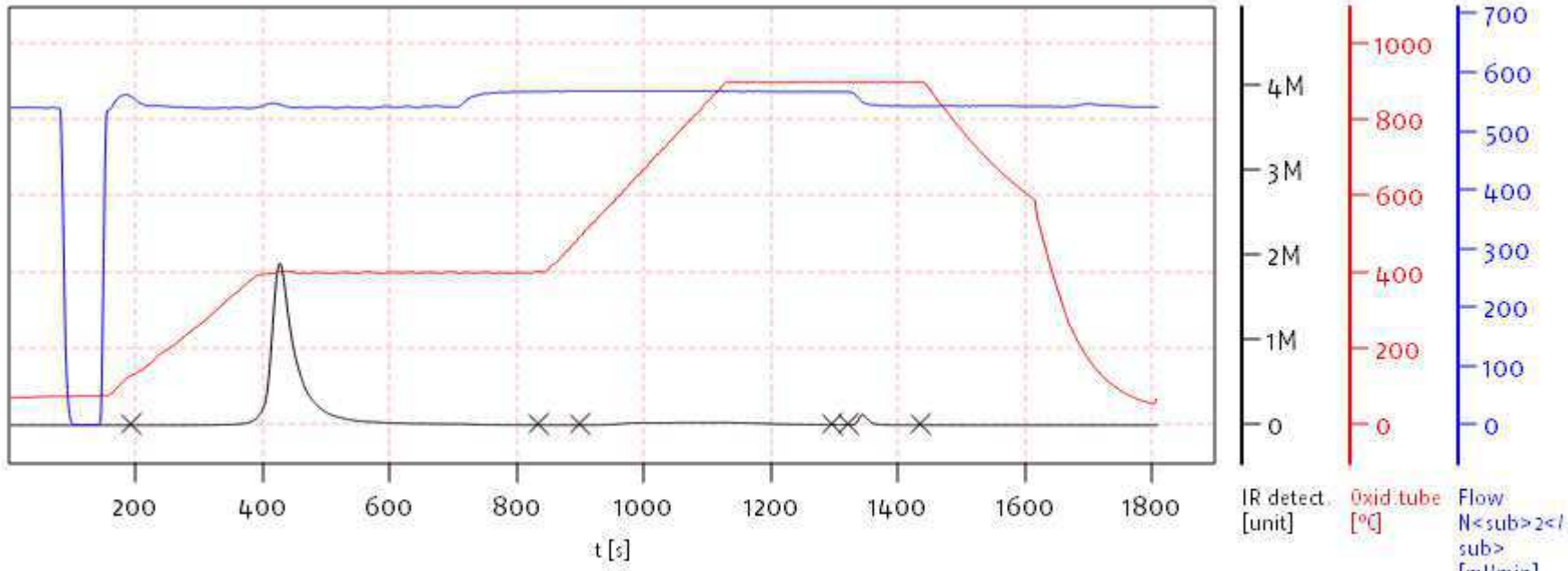
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
134	45	BKL0651-MS1	546.30	0.0079	CARBON	12/31/2022 10:09 AM	bl	0.932	3 381 307	1.006	0.017	88 143	286 964	0.914	0.074	0.9619	1.0000



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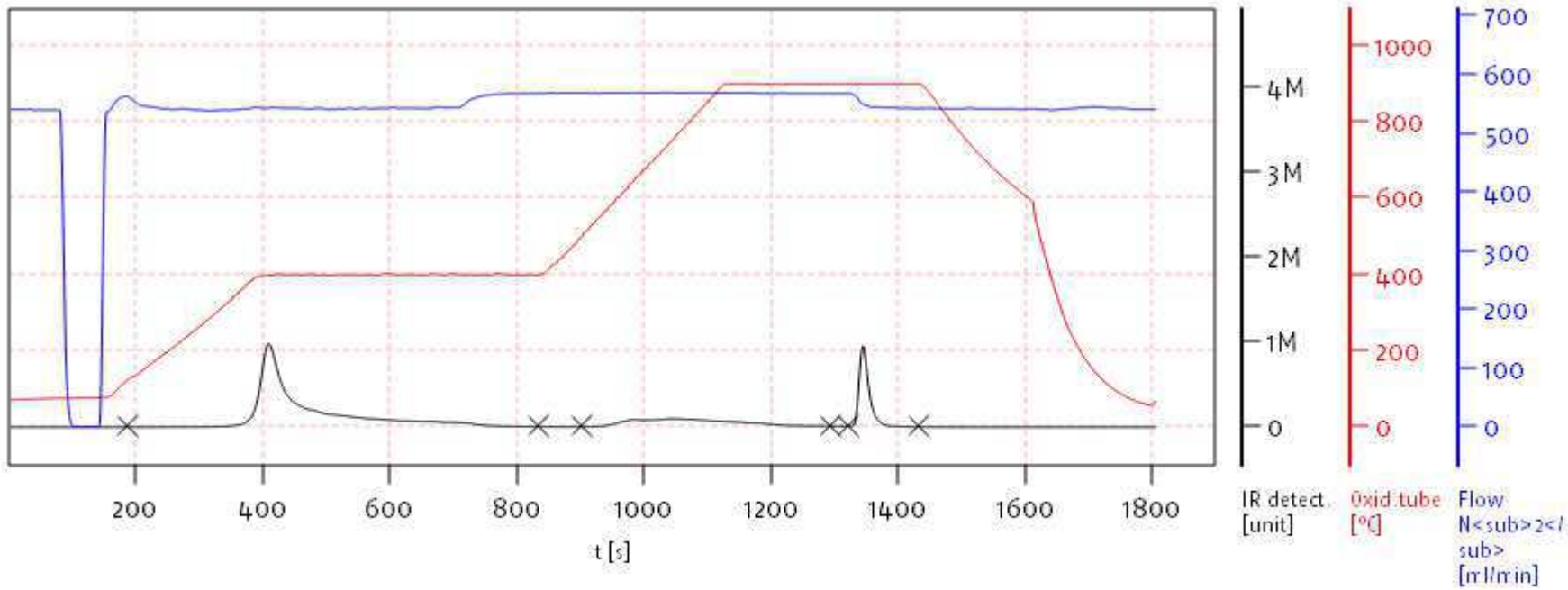
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
135	46	22L0329-22	503.90		CARBON	12/31/2022 10:40 AM	bl	0.974	2 662 419	1.199	0.195	662 448	757 820	0.779	0.225	0.9619	1.0000



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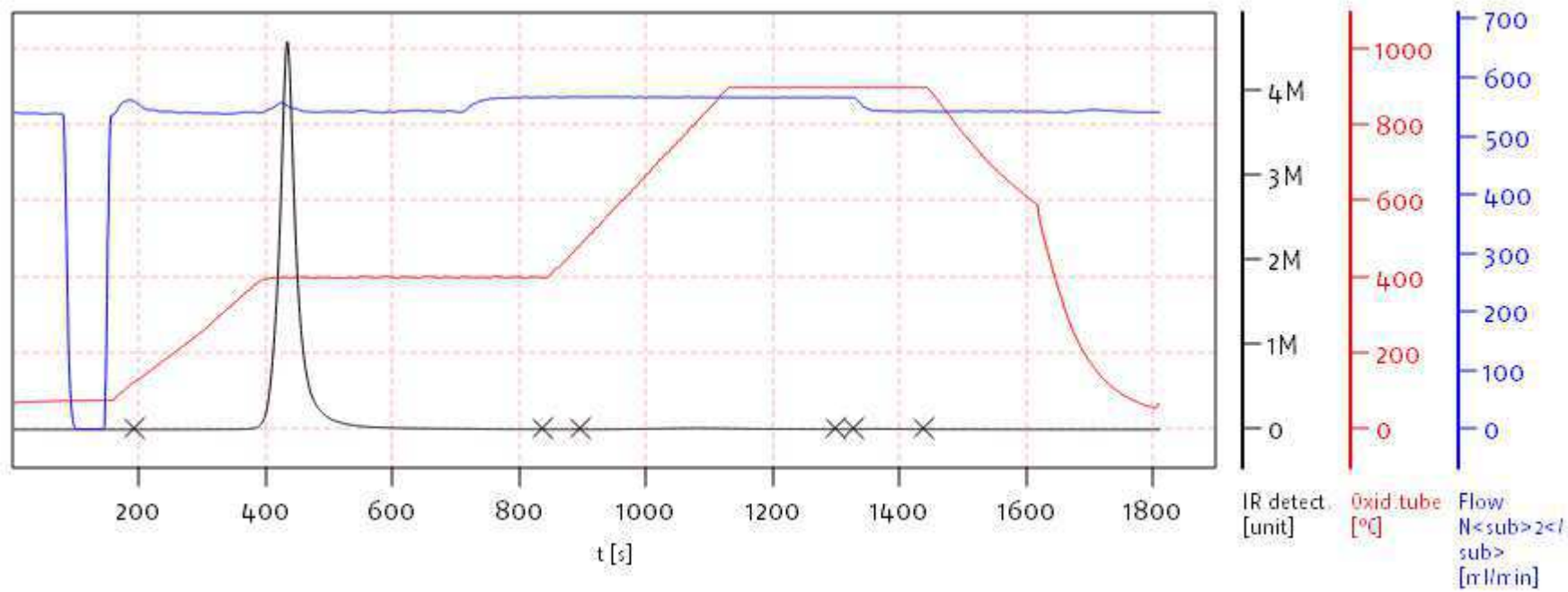
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
136	47	SKL0336-CCVB	19.30		CARBON	12/31/2022 11:11 AM	bl	44.262	5 763 356	44.972	0.000	21 763	115 129	44.262	0.711	0.9619	1.0000



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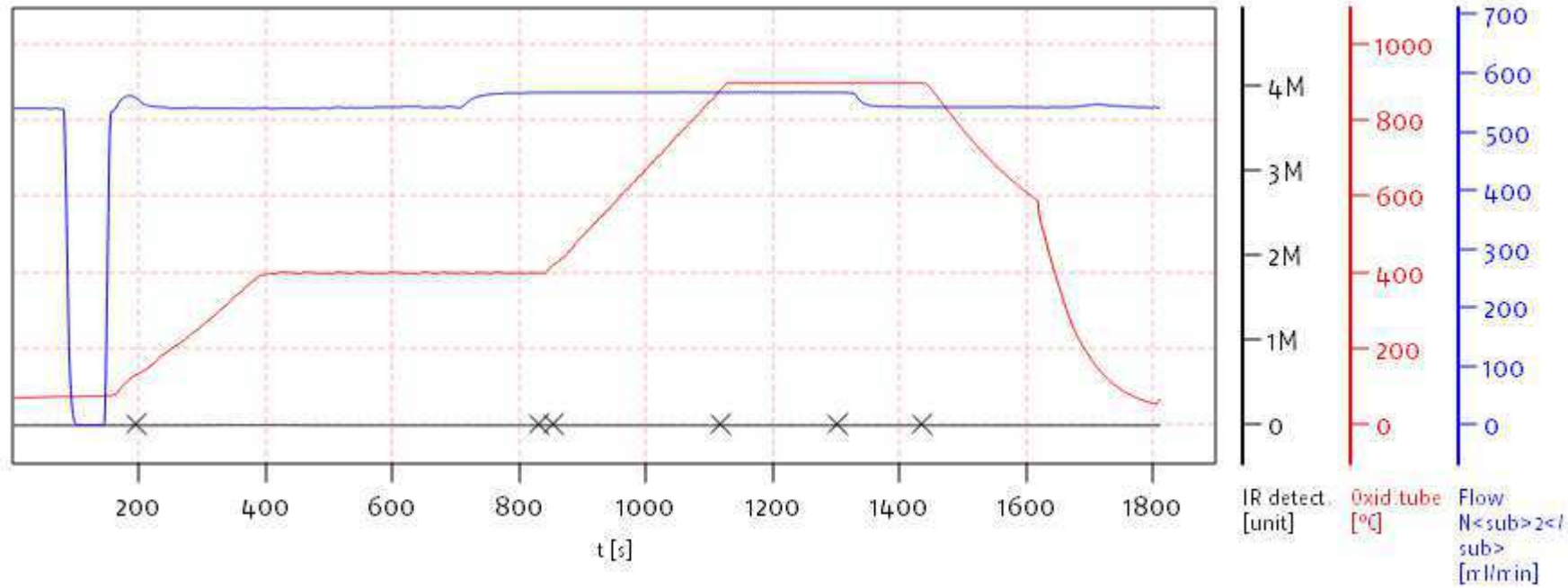
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
137	48	SKL0336-CCBB	537.60		CARBON	12/31/2022 11:41 AM	bl,C3u,C2u	0.000	14 989	0.000	0.000	624	369	0.000	0.000	0.9619	1.0000



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Balance: BAL3
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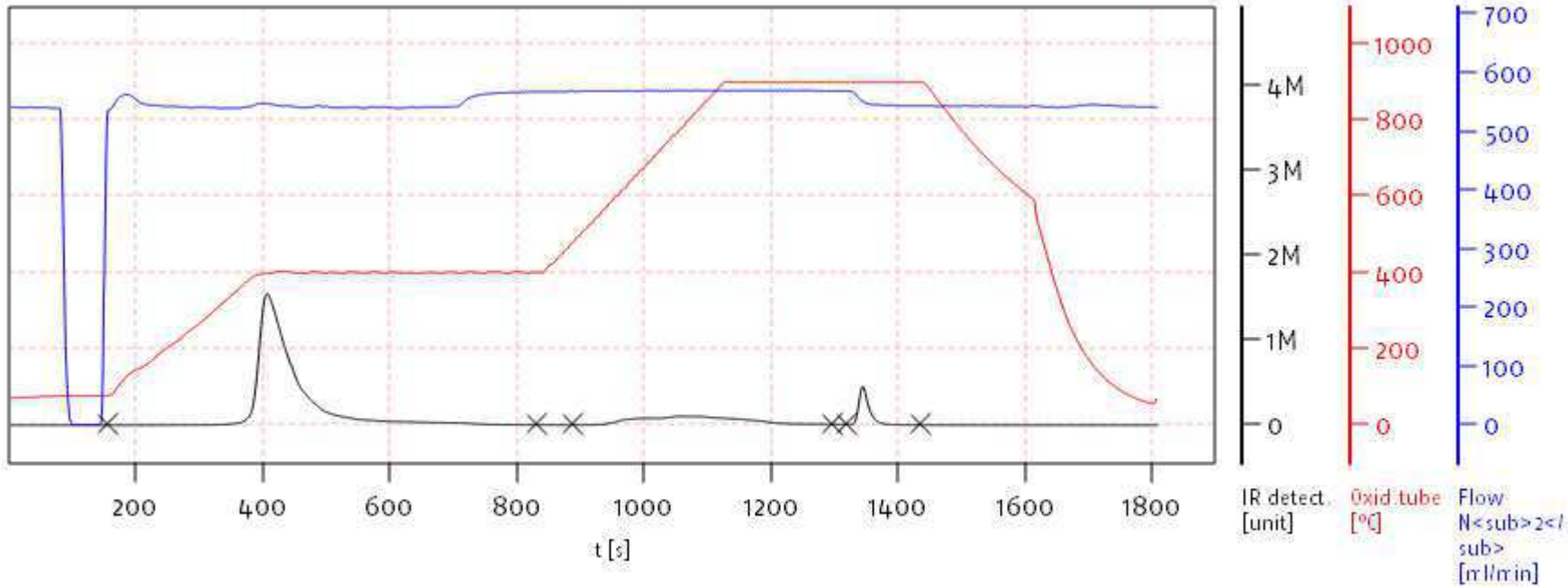
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
138	49	22L0329-23	526.70		CARBON	12/31/2022 12:12 PM	bl	1.136	3 736 415	1.363	0.087	321 930	801 042	1.049	0.228	0.9619	1.0000



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Balance: BAL3
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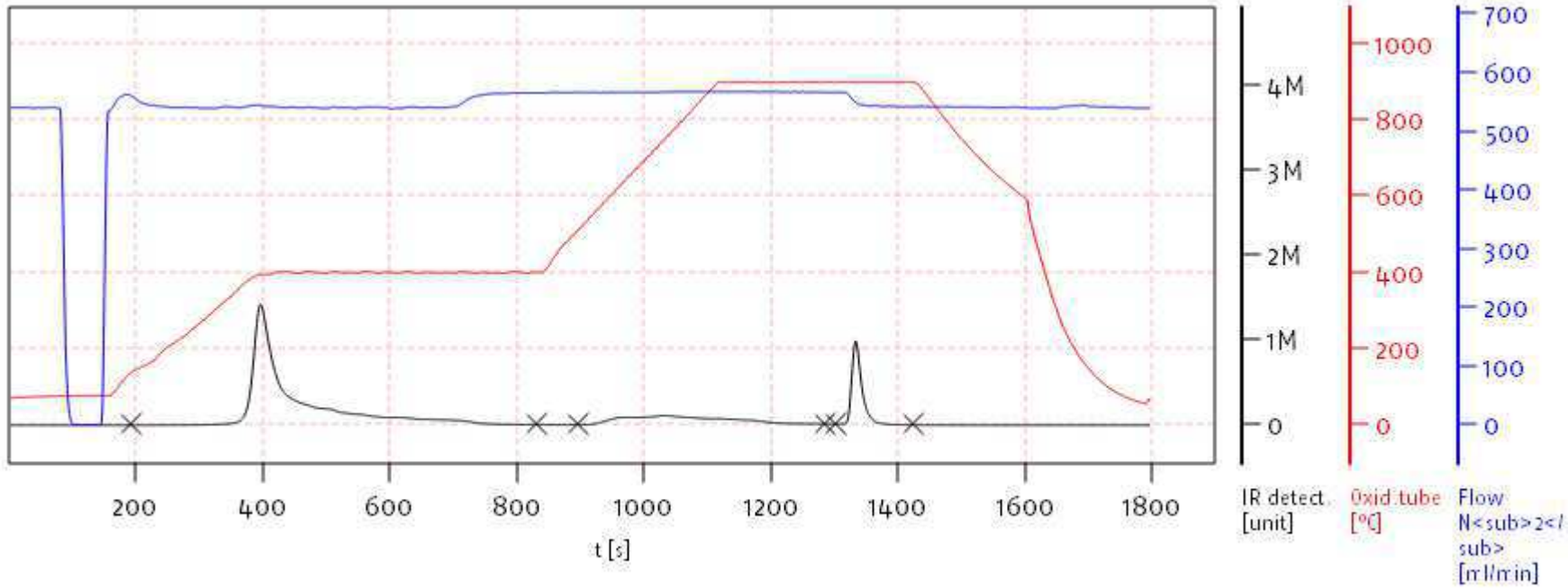
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
139	50	22L0329-24	512.40		CARBON	12/31/2022 12:42 PM	bl	1.181	3 389 869	1.437	0.204	701 481	872 703	0.977	0.256	0.9619	1.0000



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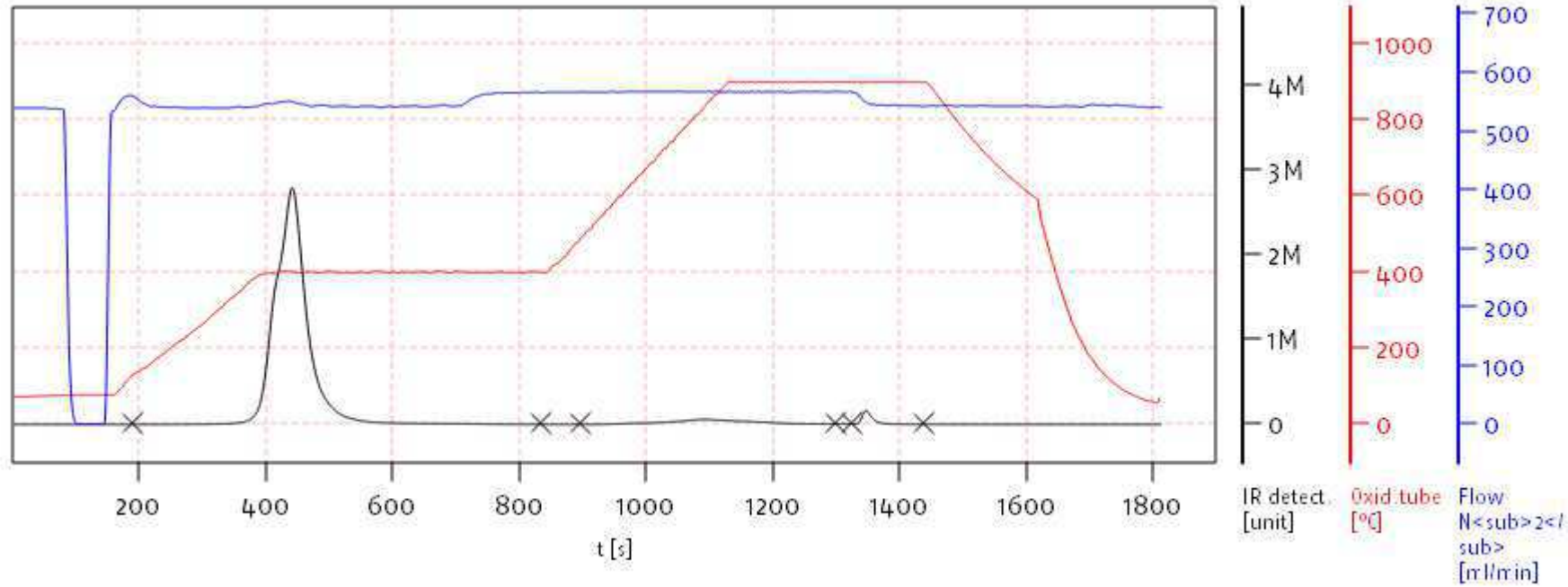
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
140	51	22L0329-25	527.60		CARBON	12/31/2022 1:13 PM	bl	1.722	6 032 597	1.814	0.027	118 871	339 551	1.695	0.092	0.9619	1.0000



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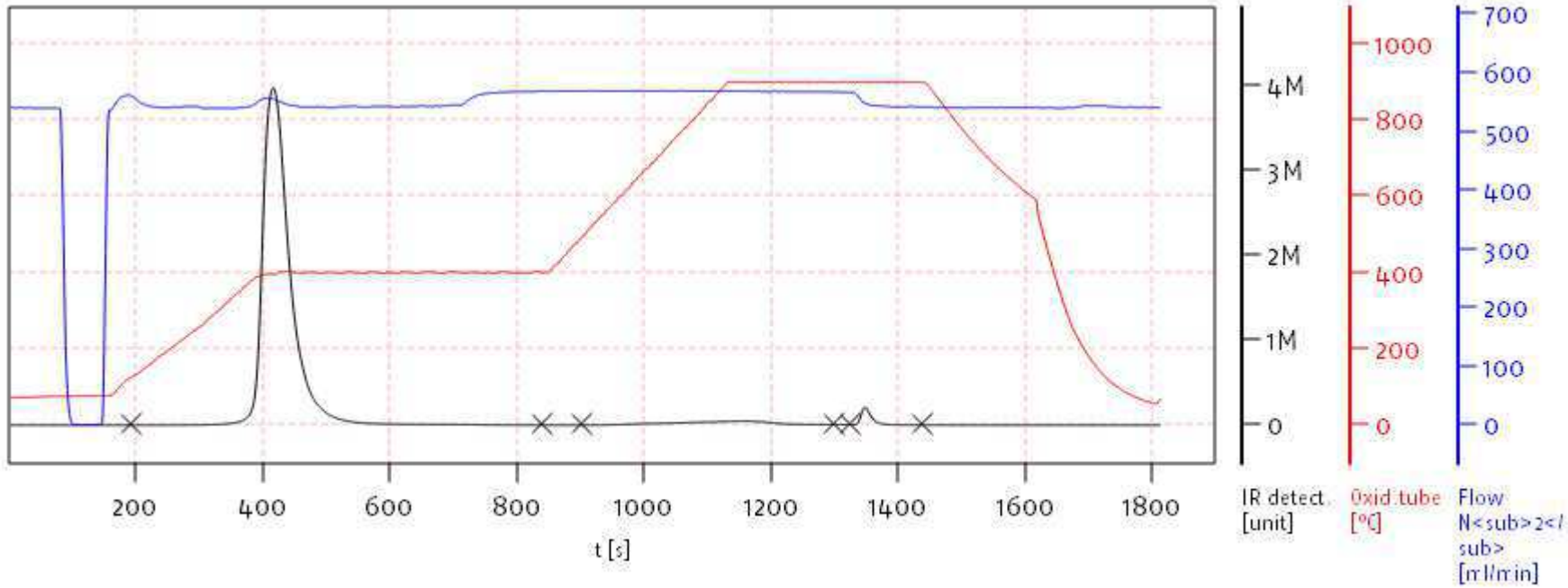
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
141	52	22L0329-26	515.90		CARBON	12/31/2022 1:43 PM	bl	2.171	7 416 684	2.259	0.038	153 467	320 089	2.133	0.088	0.9619	1.0000



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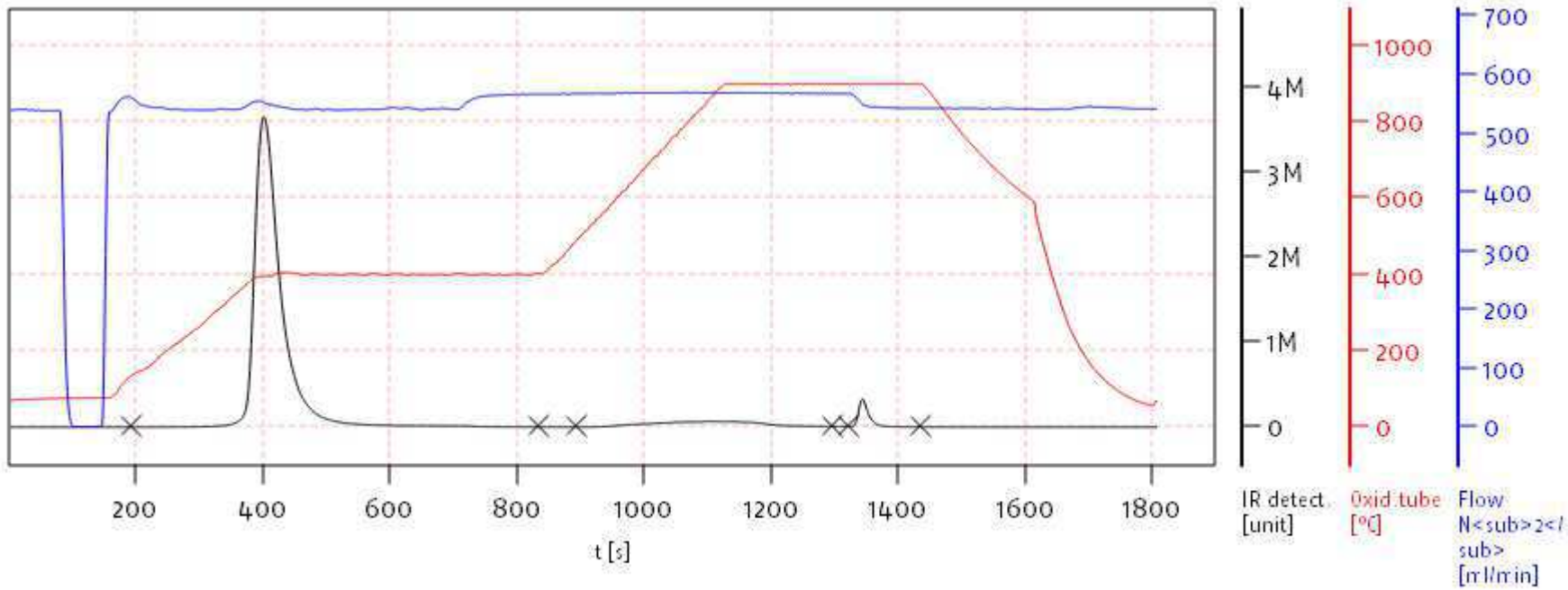
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
142	53	22L0329-27	505.00		CARBON	12/31/2022 2:14 PM	bl	1.989	6 556 551	2.142	0.063	233 415	524 881	1.925	0.153	0.9619	1.0000



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Mode CCC

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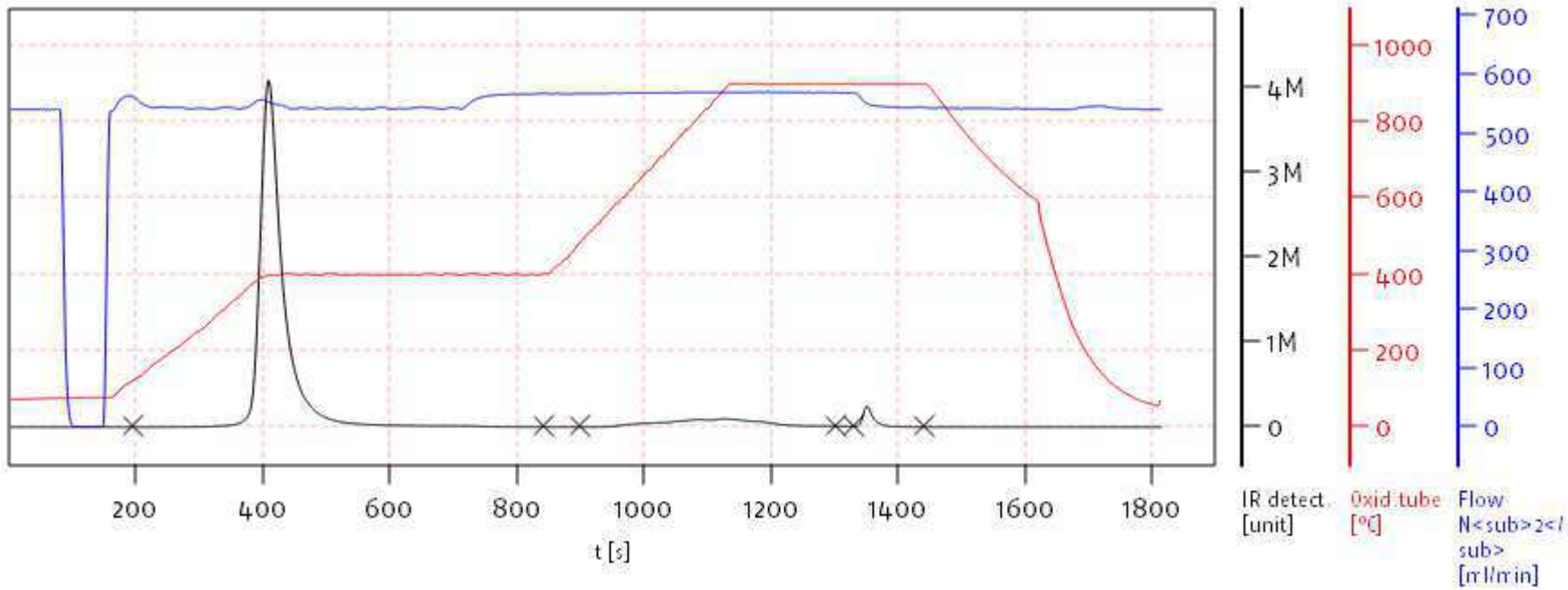
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
143	54	22L0329-28	522.10		CARBON	12/31/2022 2:44 PM	bl	1.863	6 395 374	2.054	0.046	182 984	671 039	1.816	0.191	0.9619	1.0000



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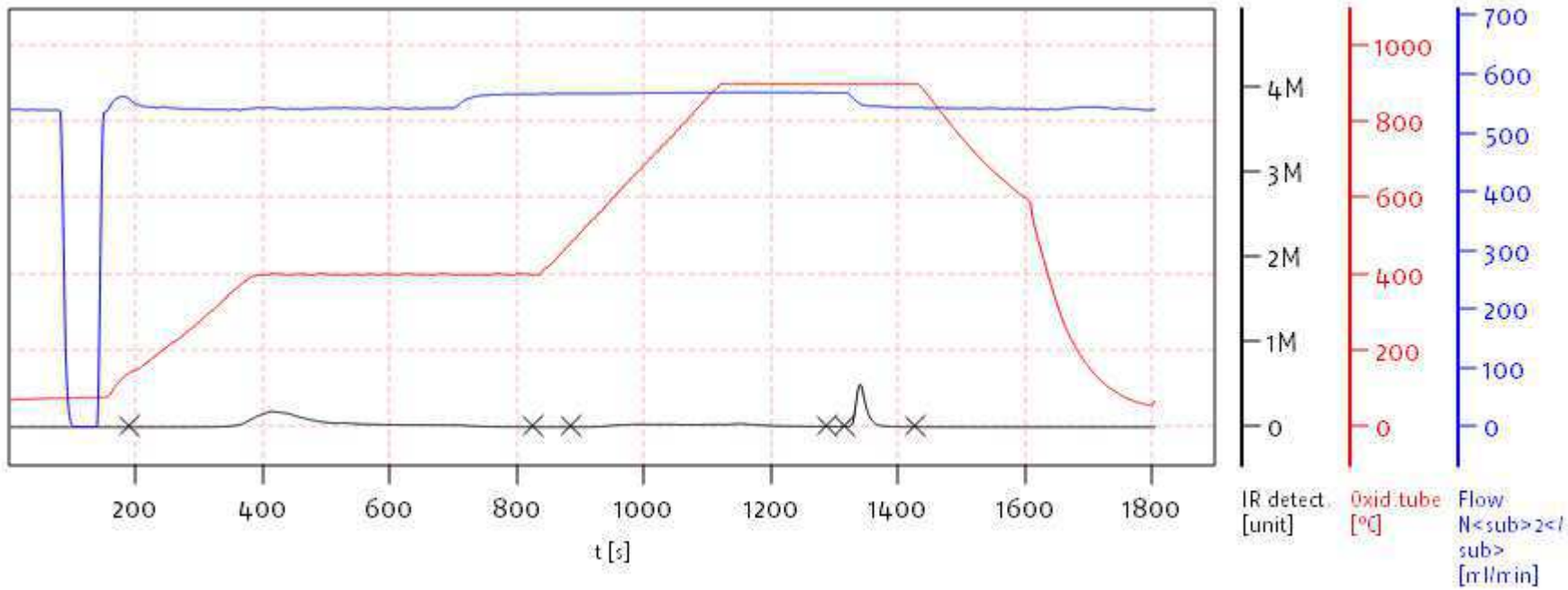
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
144	55	22L0329-29	516.00		CARBON	12/31/2022 3:15 PM	bl	0.352	901 231	0.439	0.099	357 312	318 364	0.252	0.088	0.9619	1.0000



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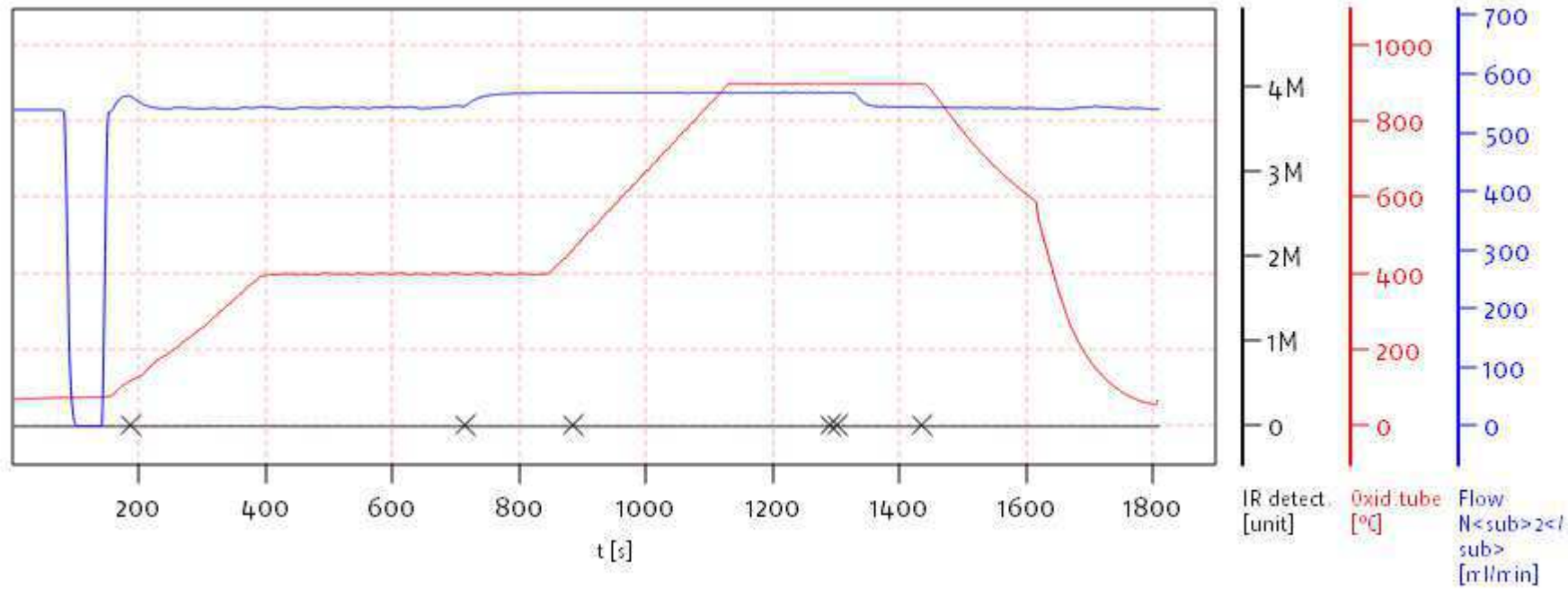
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
145	56	BLANK	1.00		CARBON	12/31/2022 3:46 PM	bl	0.000	8 477	0.000	0.000	377	1 497	0.000	0.000	0.9619	1.0000



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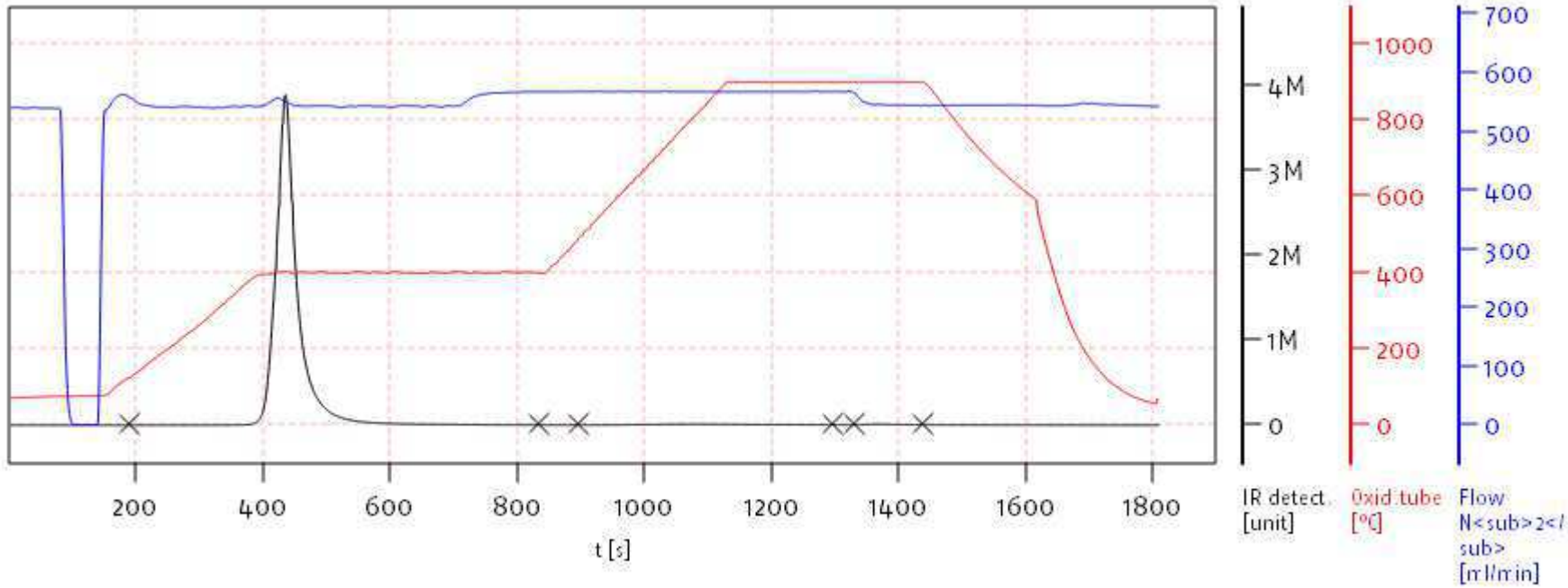
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
146	57	Dfactor	19.30		CARBON	12/31/2022 4:16 PM	bl	44.467	5 642 249	45.050	0.021	29 141	99 276	44.446	0.583	0.9867	1.0000



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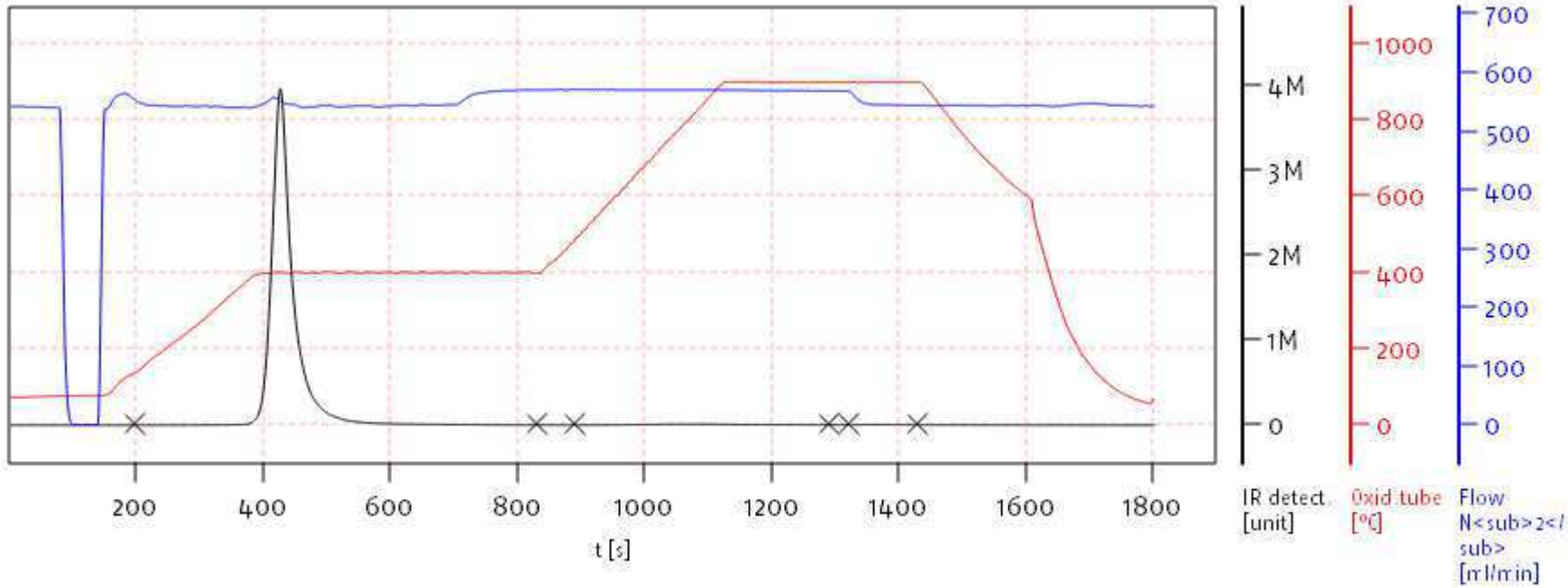
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
147	58	Dfactor	19.20		CARBON	12/31/2022 4:47 PM	bl	44.446	5 701 287	44.935	0.000	19 314	87 237	44.446	0.489	0.9714	1.0000



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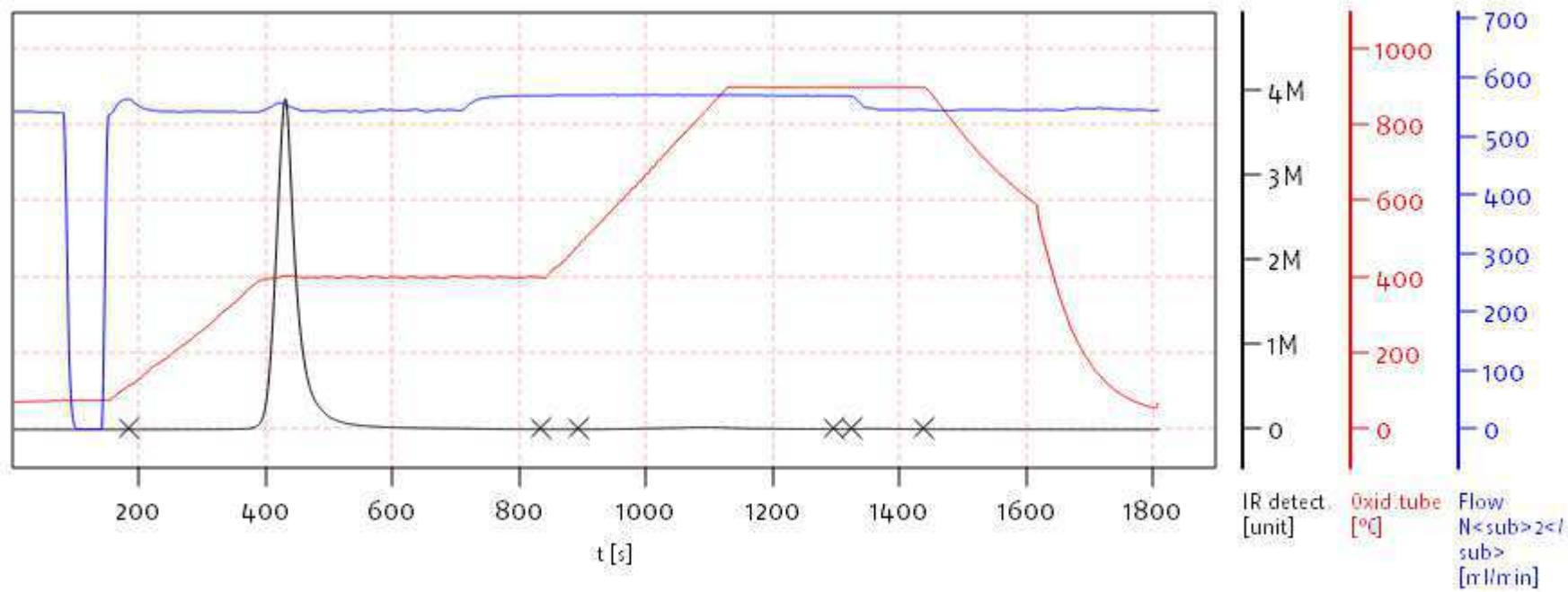
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
148	59	SKL0336-CCVC	19.70		CARBON	12/31/2022 5:17 PM	bl	44.187	5 769 864	45.350	0.000	26 333	174 532	44.187	1.163	0.9791	1.0000



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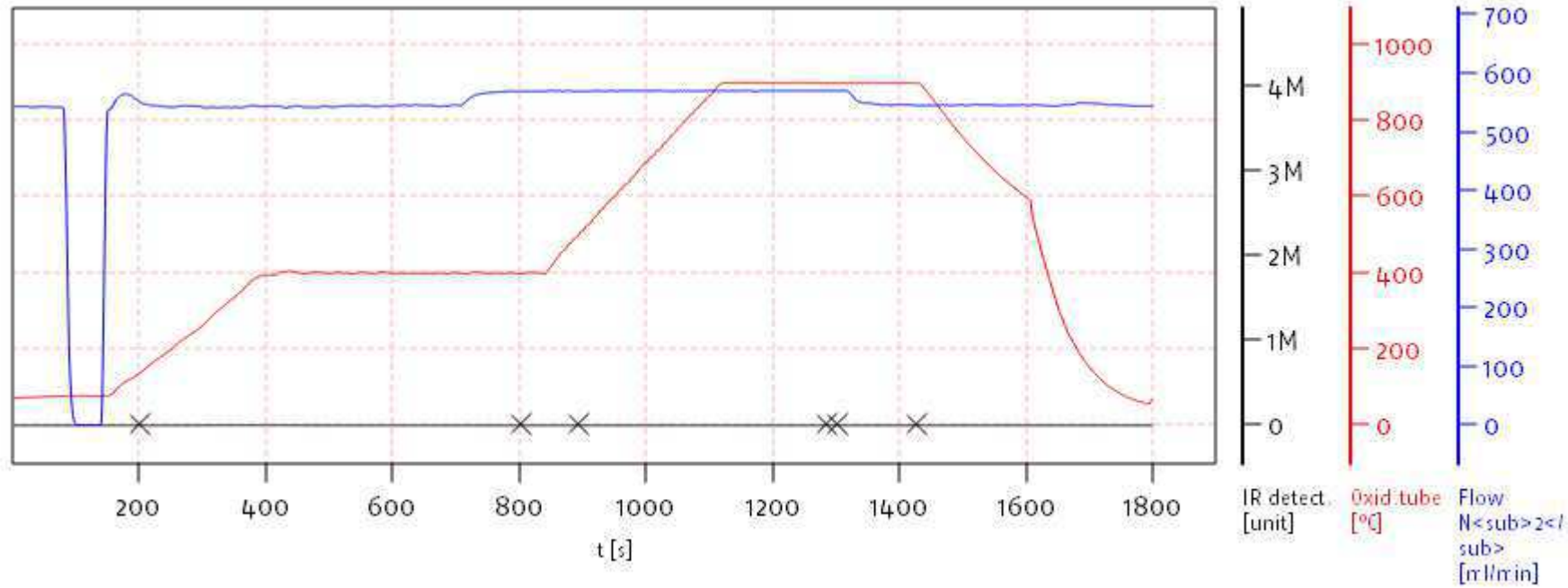
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
149	60	SKL0336-CCBC	512.20		CARBON	12/31/2022 5:48 PM	bl,C3u,C2u	0.000	11 093	0.000	0.000	864	1 929	0.000	0.000	0.9791	1.0000



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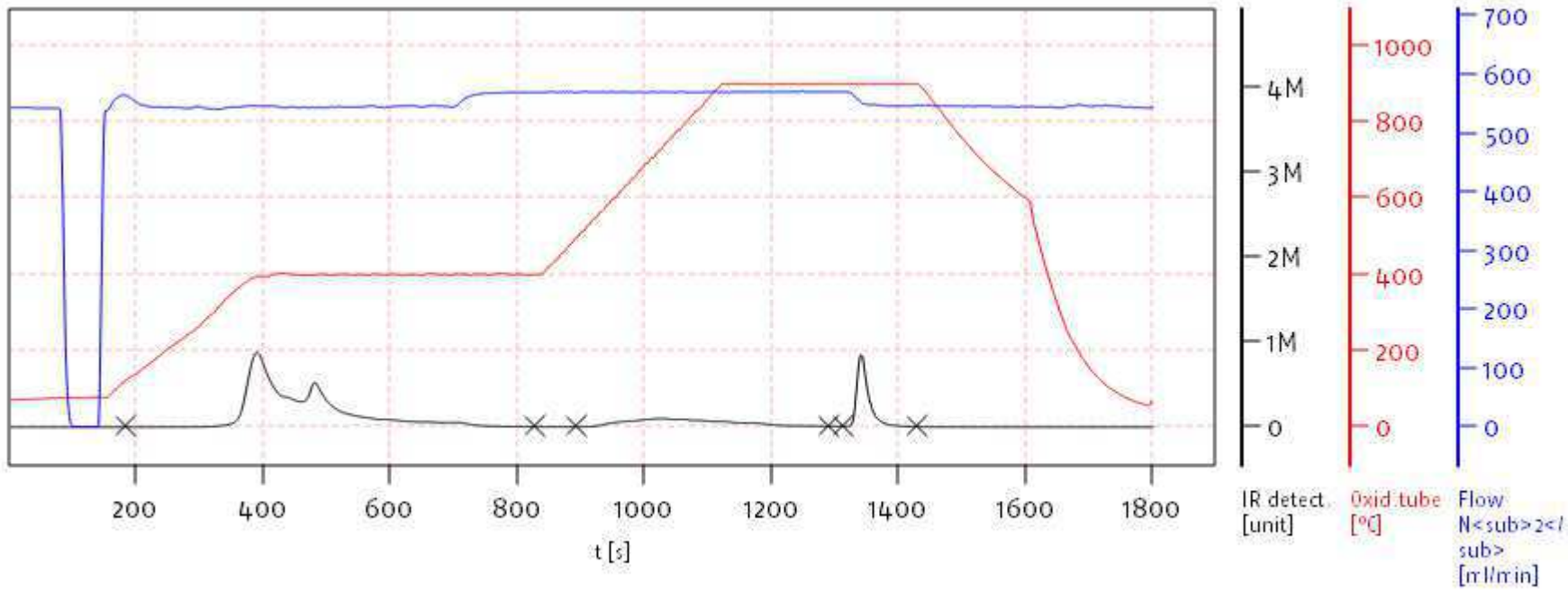
150	61	22L0329-30	561.70		CARBON	12/31/2022 6:18 PM	bl	1.080	3 345 240	1.279	0.184	694 697	749 214	0.895	0.199	0.9791	1.0000



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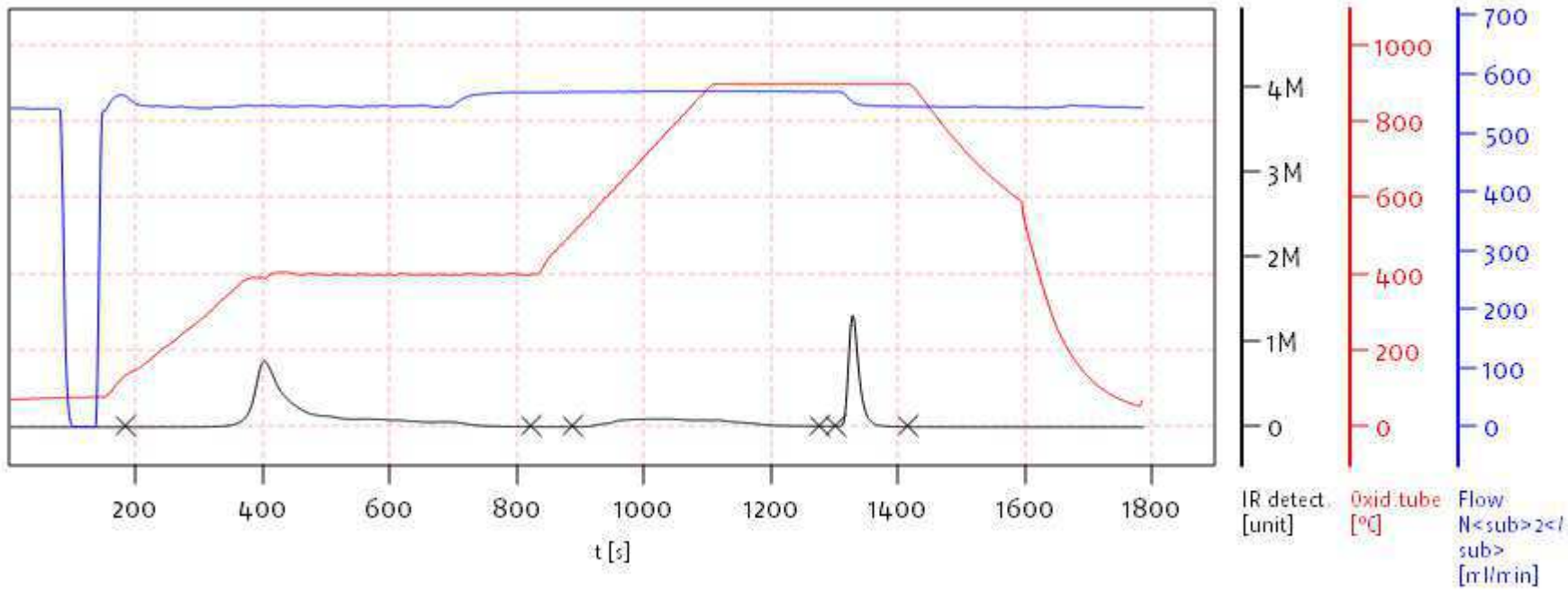
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
151	62	22L0329-31	532.90		CARBON	12/31/2022 6:48 PM	bl	0.960	2 437 504	1.180	0.274	970 845	785 419	0.686	0.220	0.9791	1.0000



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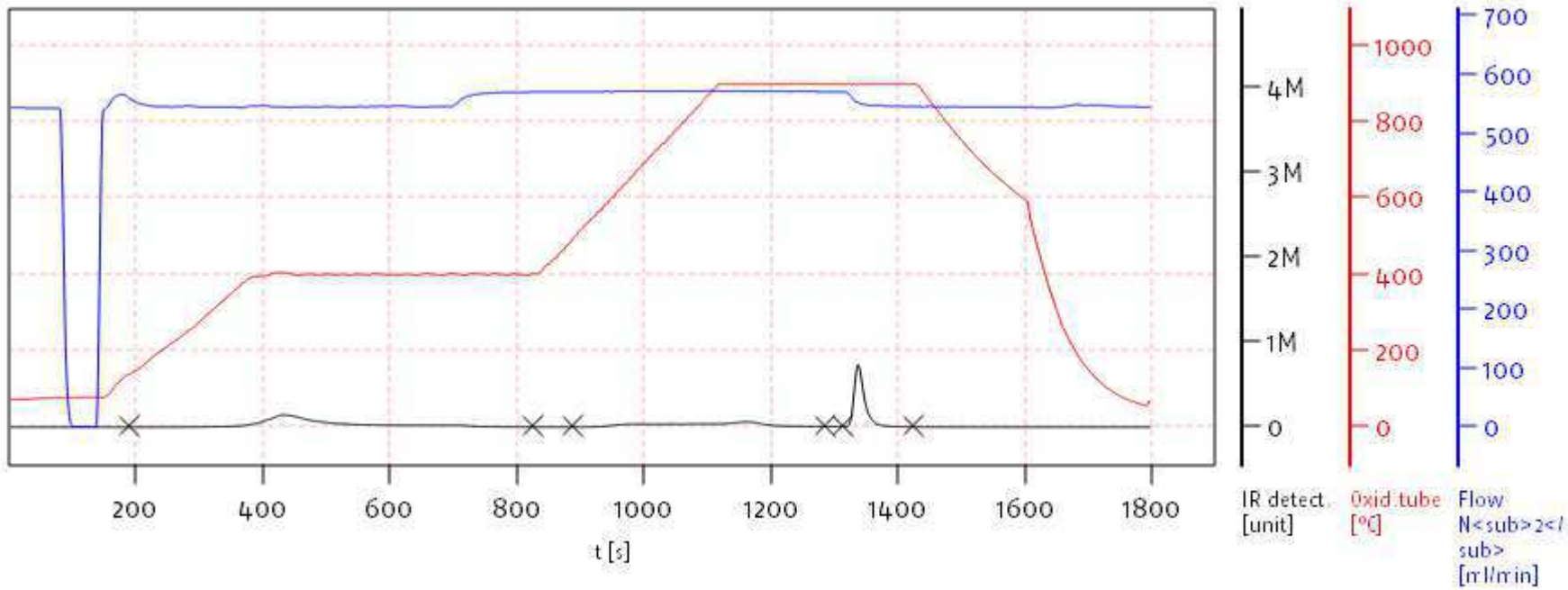
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
152	63	22L0329-32	636.70		CARBON	12/31/2022 7:19 PM	bl	0.278	678 324	0.369	0.123	531 334	403 052	0.155	0.092	0.9791	1.0000



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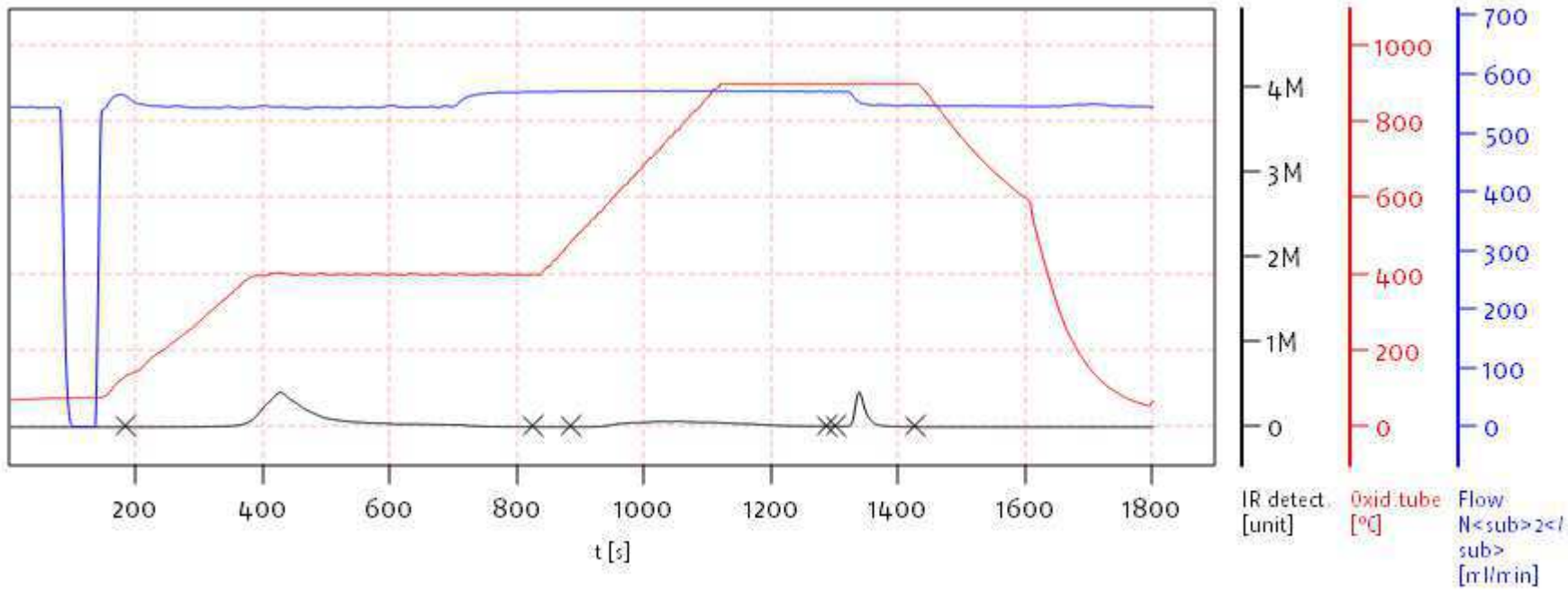
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
153	64	22L0329-33	563.70		CARBON	12/31/2022 7:49 PM	bl	0.483	1 534 676	0.621	0.078	310 333	528 147	0.405	0.138	0.9791	1.0000



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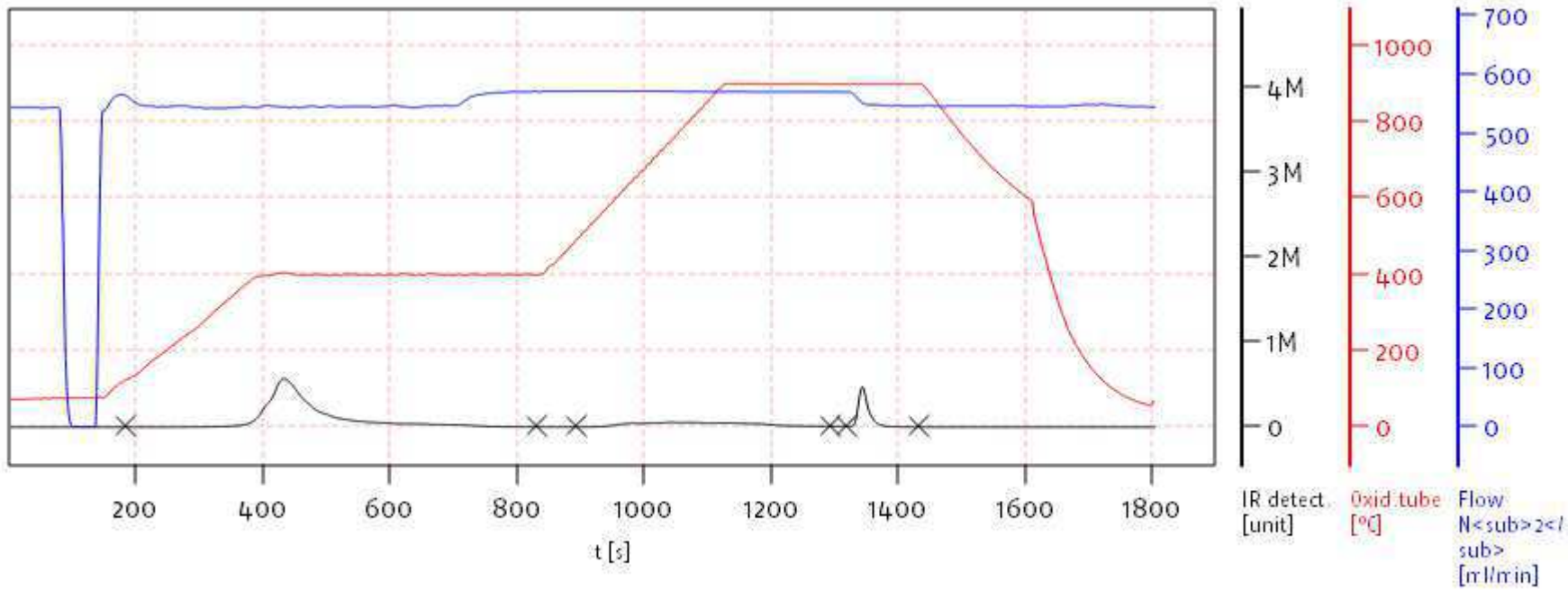
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
154	65	22L0329-34	654.60		CARBON	12/31/2022 8:20 PM	bl	0.512	1 924 577	0.620	0.072	331 303	485 000	0.439	0.108	0.9791	1.0000



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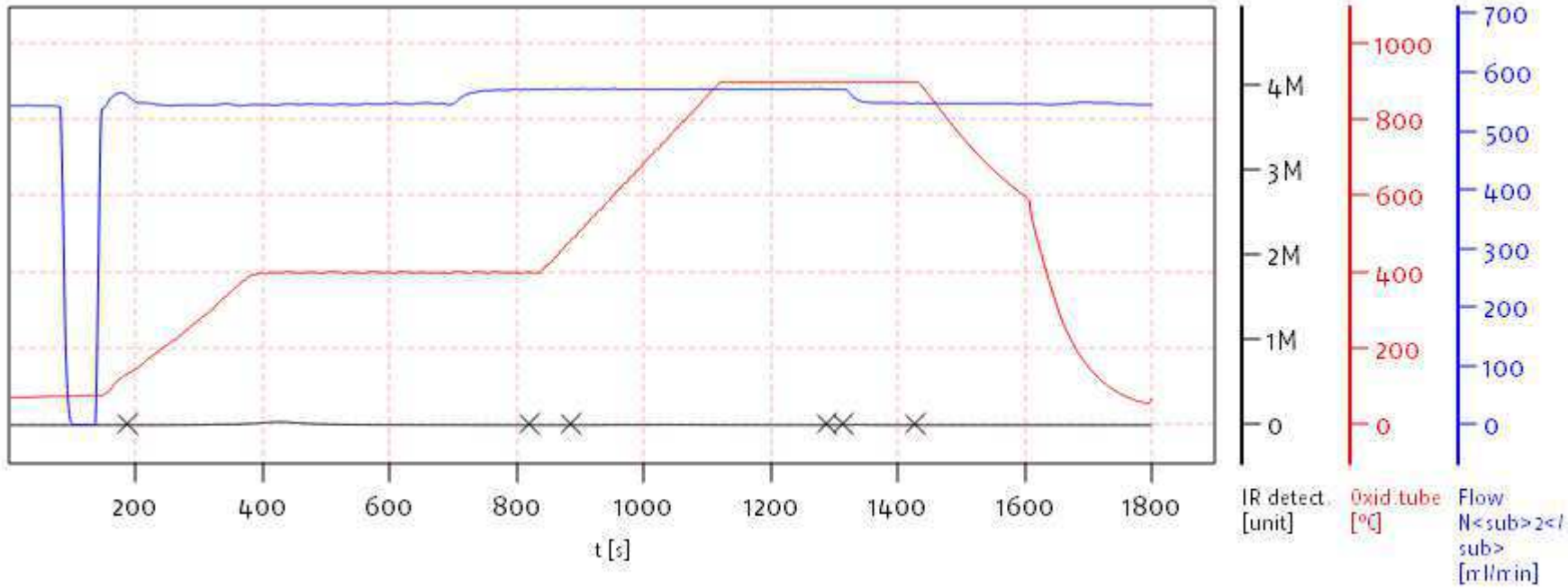
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
155	66	22L0329-35	554.00		CARBON	12/31/2022 8:50 PM	bl	0.041	175 811	0.043	0.000	5 283	32 621	0.041	0.002	0.9791	1.0000



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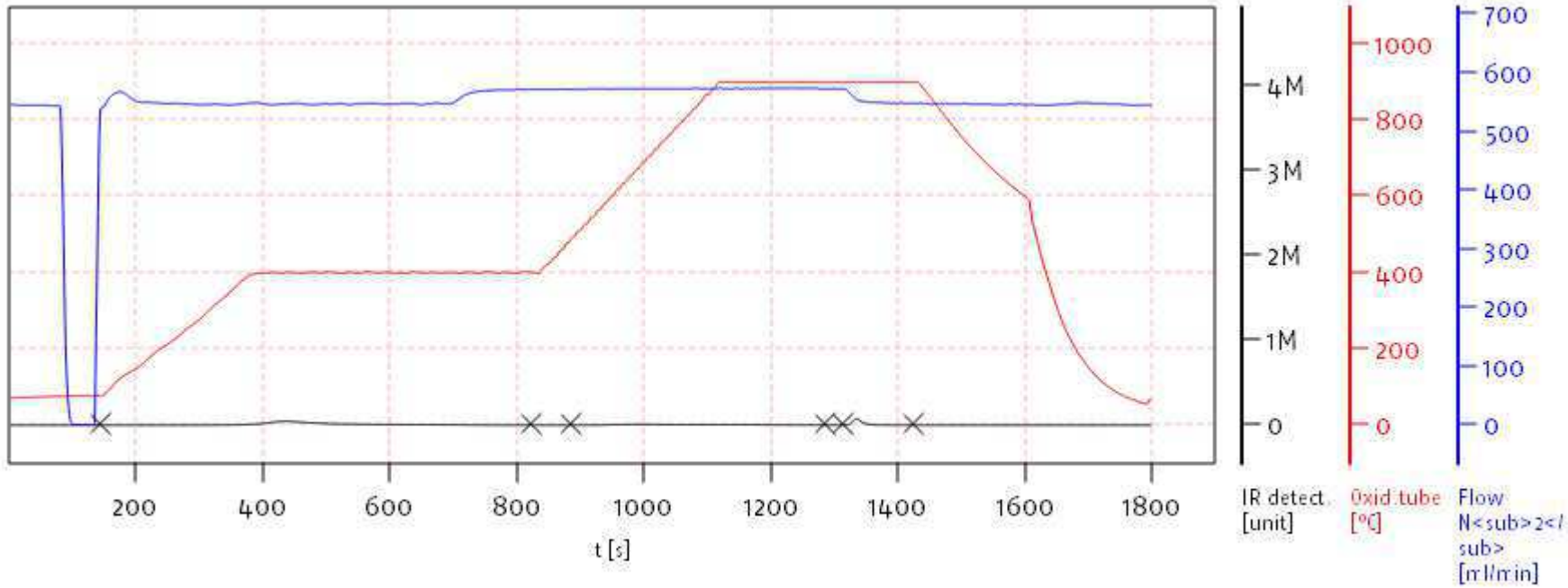
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
156	67	22L0329-36	565.00		CARBON	12/31/2022 9:20 PM	bl	0.058	215 475	0.069	0.007	51 654	69 911	0.051	0.012	0.9791	1.0000



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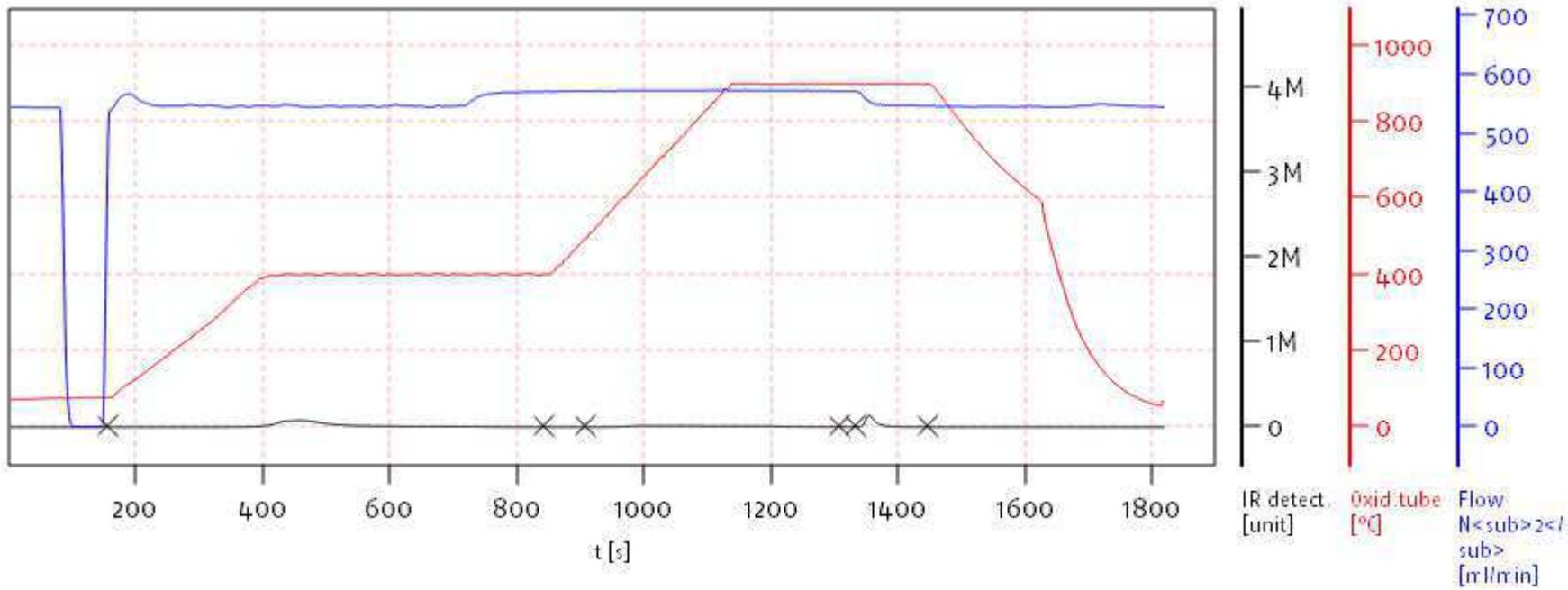
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
157	68	22L0329-37	531.80		CARBON	12/31/2022 9:51 PM	bl	0.110	336 501	0.137	0.022	100 910	120 109	0.088	0.027	0.9791	1.0000



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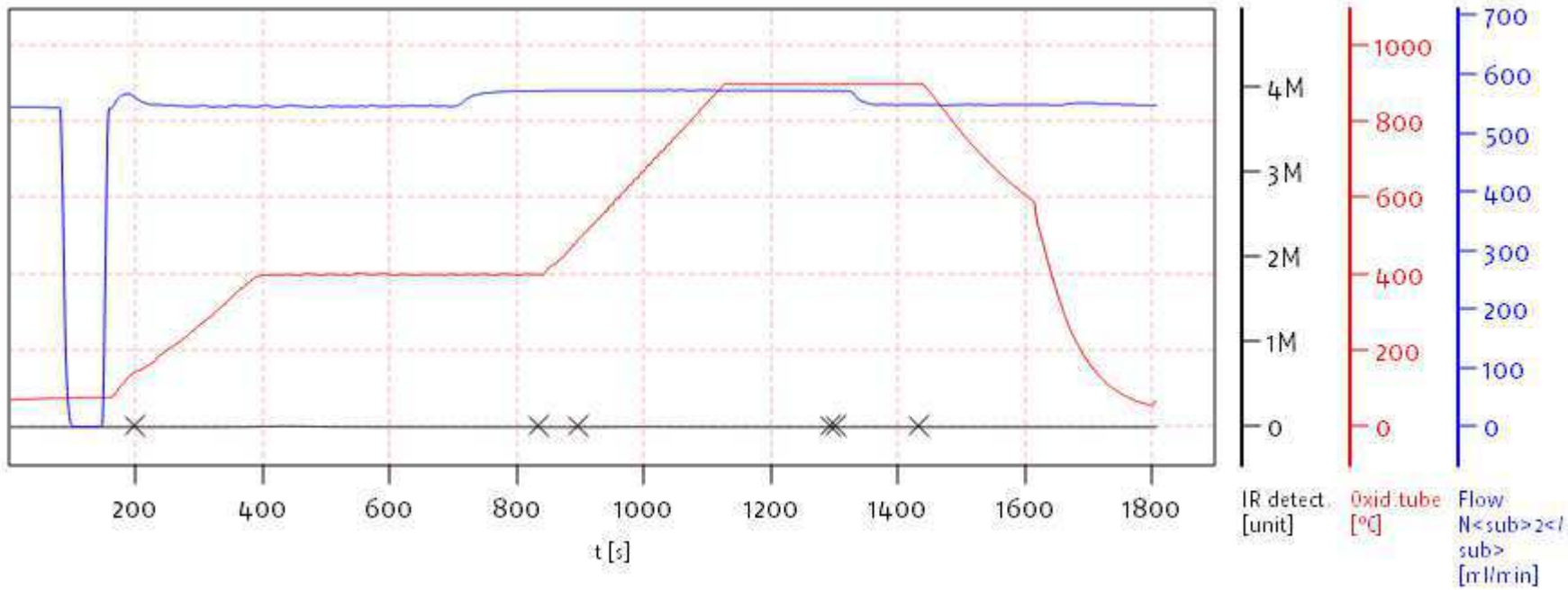
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
158	69	22L0329-38	511.30		CARBON	12/31/2022 10:22 PM	bl,C2u	0.006	45 577	0.006	0.000	2 073	12 913	0.006	0.000	0.9791	1.0000



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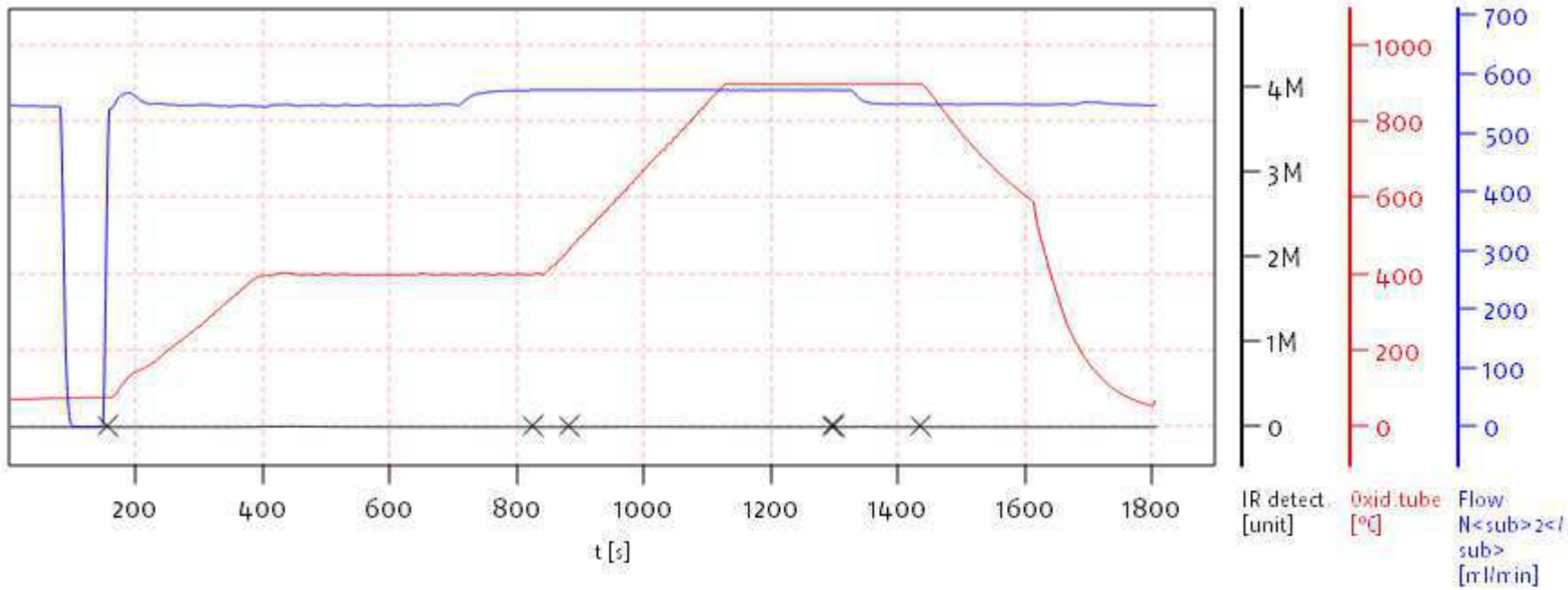
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
159	70	22L0329-39	538.80		CARBON	12/31/2022 10:52 PM	bl	0.003	38 567	0.003	0.000	4 278	11 875	0.003	0.000	0.9791	1.0000



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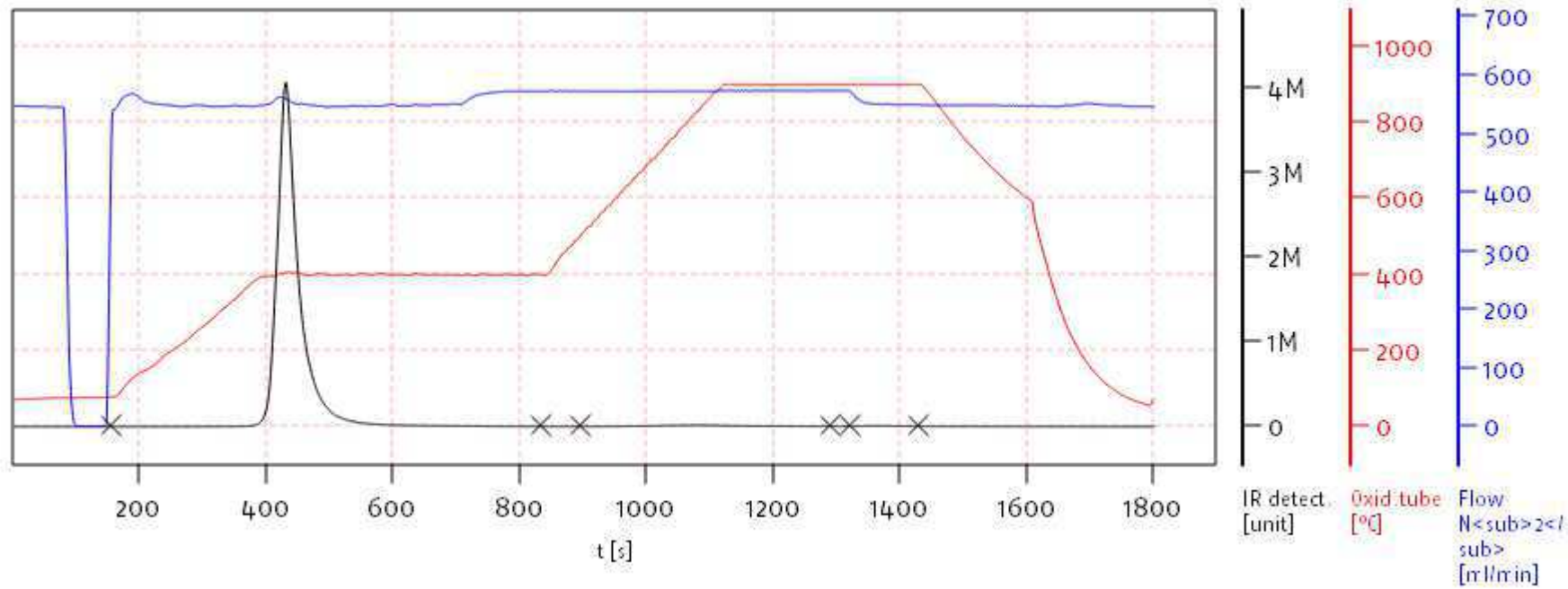
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
160	71	SKL0336-CCVD	20.70		CARBON	12/31/2022 11:23 PM	bl	44.344	6 082 897	44.986	0.000	25 317	112 404	44.344	0.642	0.9791	1.0000



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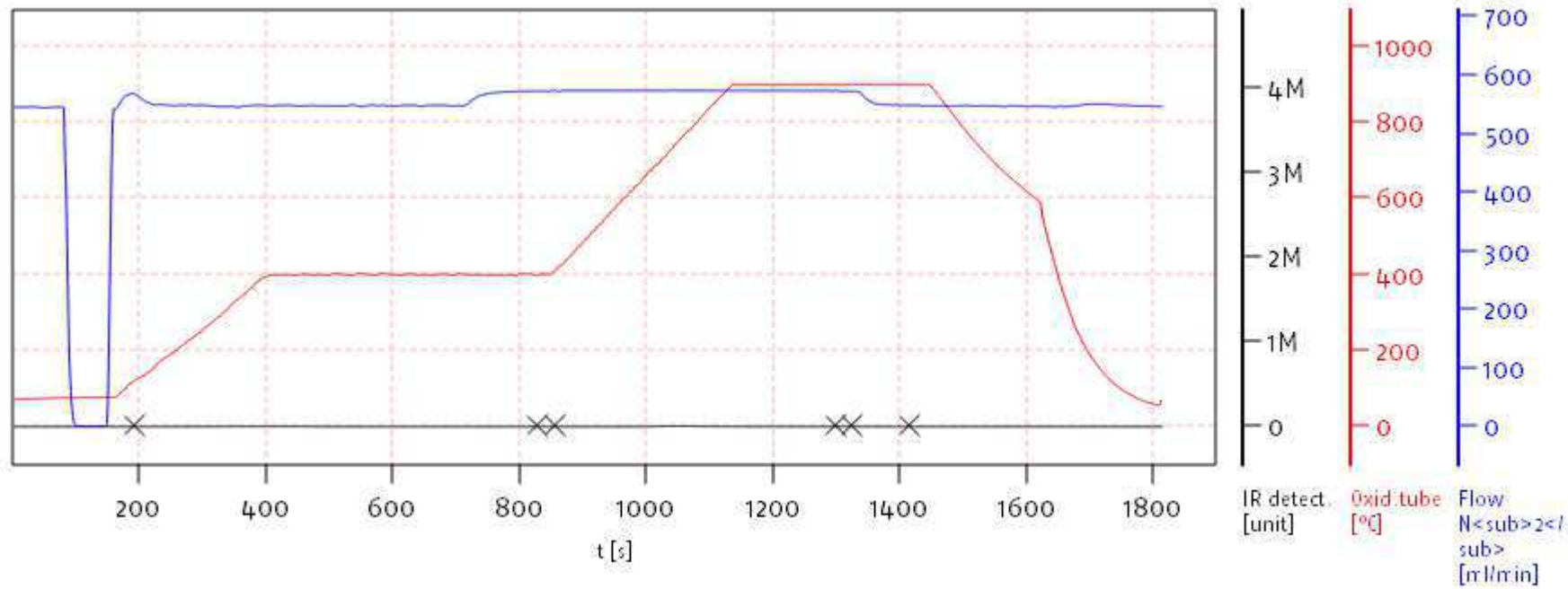
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
161	72	SKL0336-CCBD	510.00		CARBON	12/31/2022 11:53 PM	bl,C2u	0.000	18 170	0.000	0.000	1 299	27 248	0.000	0.000	0.9791	1.0000



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Serial No: 0300.181017
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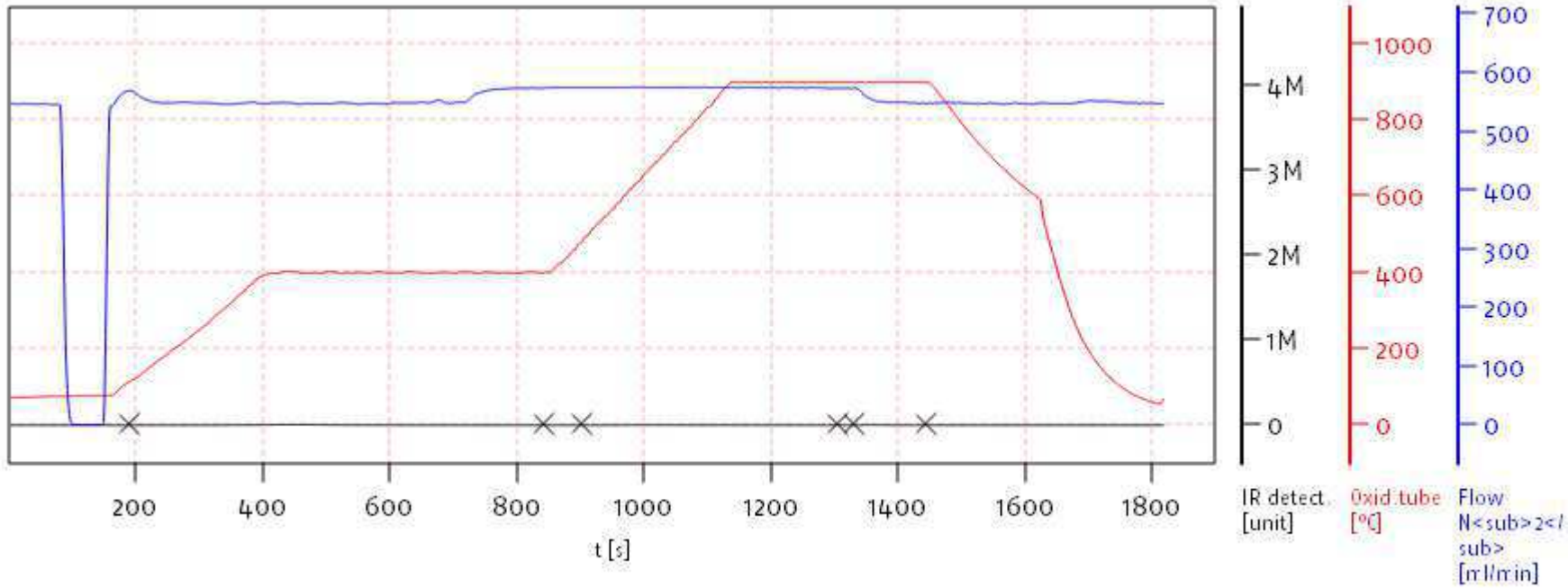
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
162	73	22L0329-40	508.40		CARBON	1/1/2023 12:24 AM	bl	0.003	38 201	0.003	0.000	4 604	12 641	0.003	0.000	0.9791	1.0000



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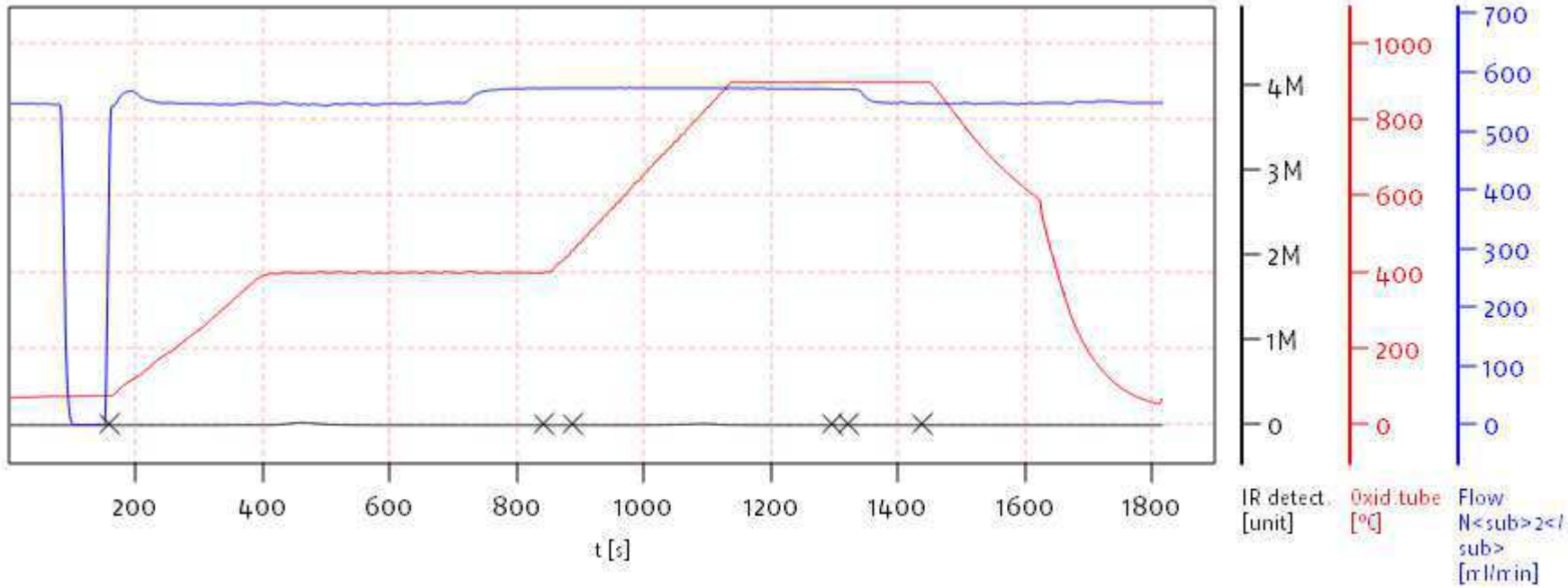
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
163	74	BKL0652-MRL1	548.60		CARBON	1/1/2023 12:55 AM	bl,C2u	0.013	73 613	0.016	0.000	678	38 165	0.013	0.003	0.9791	1.0000



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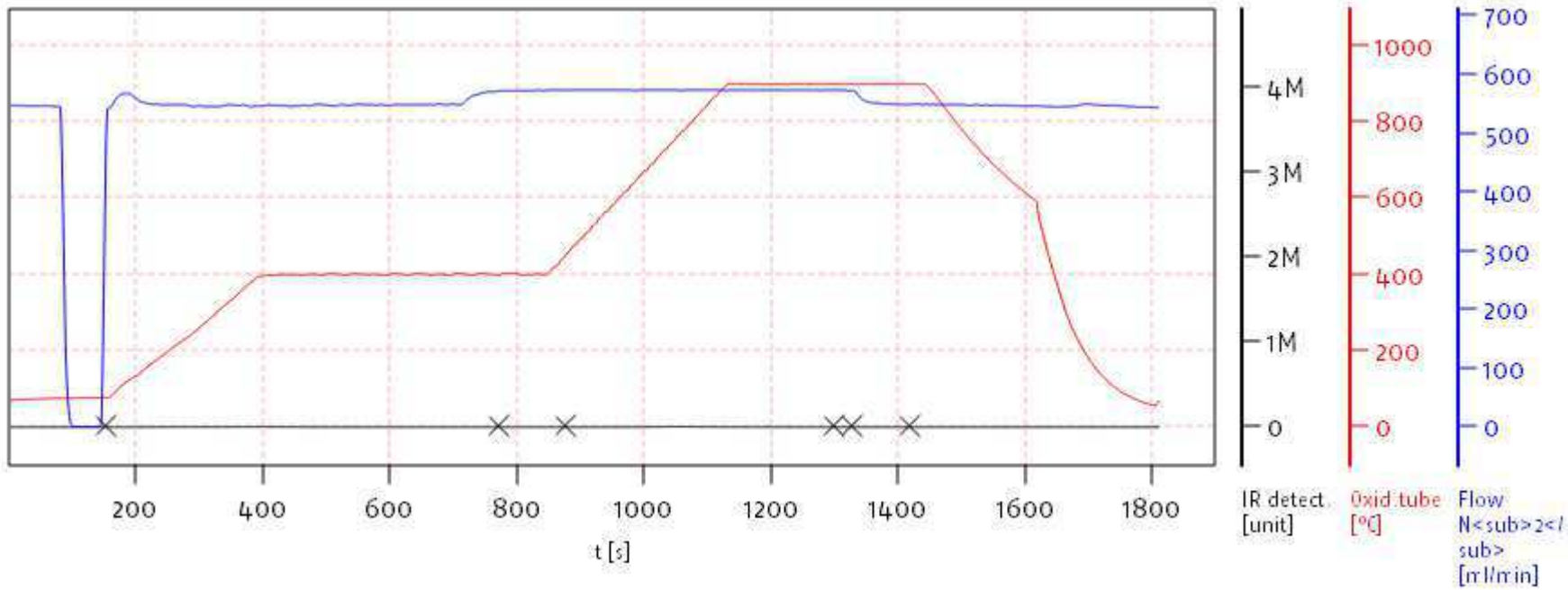
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
164	75	BKL0652-BLK1	511.00		CARBON	1/1/2023 1:25 AM	bl,C2u	0.000	20 971	0.000	0.000	644	21 914	0.000	0.000	0.9791	1.0000



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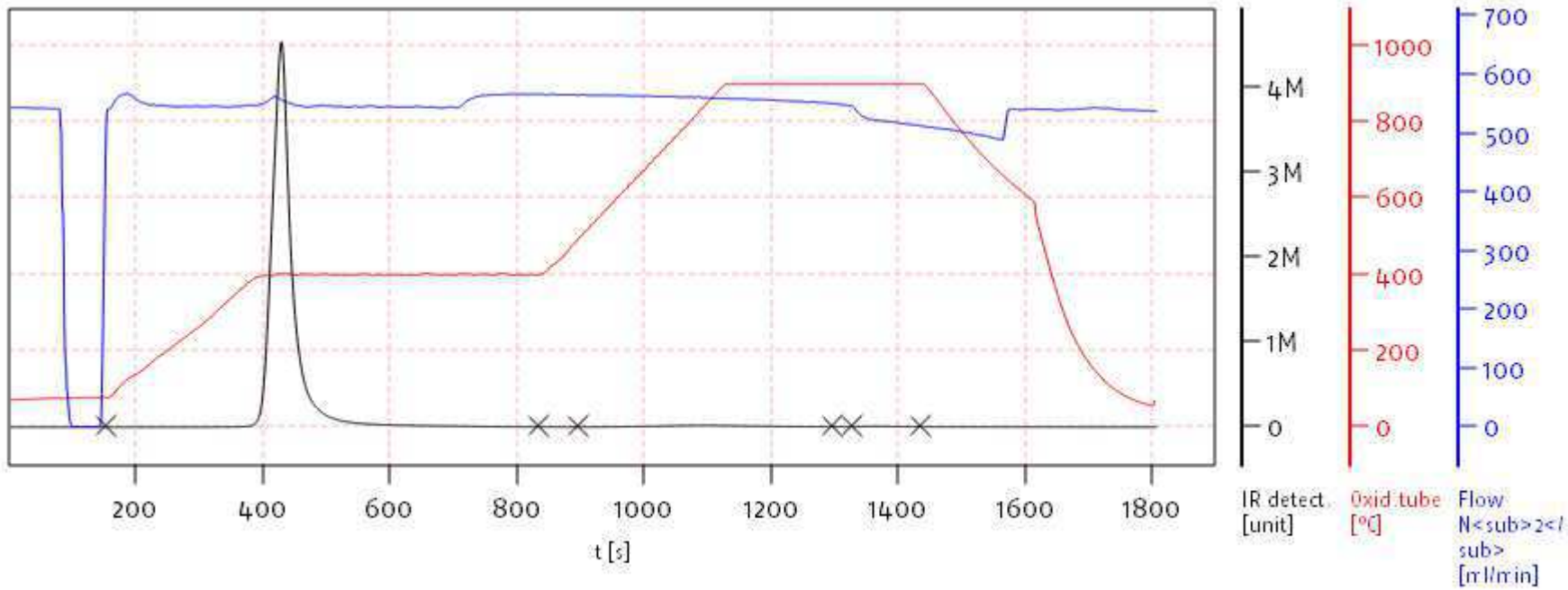
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
165	76	BKL0652-BS1	21.30		CARBON	1/1/2023 1:56 AM	bl	44.428	6 269 704	45.307	0.003	26 980	147 586	44.424	0.880	0.9791	1.0000



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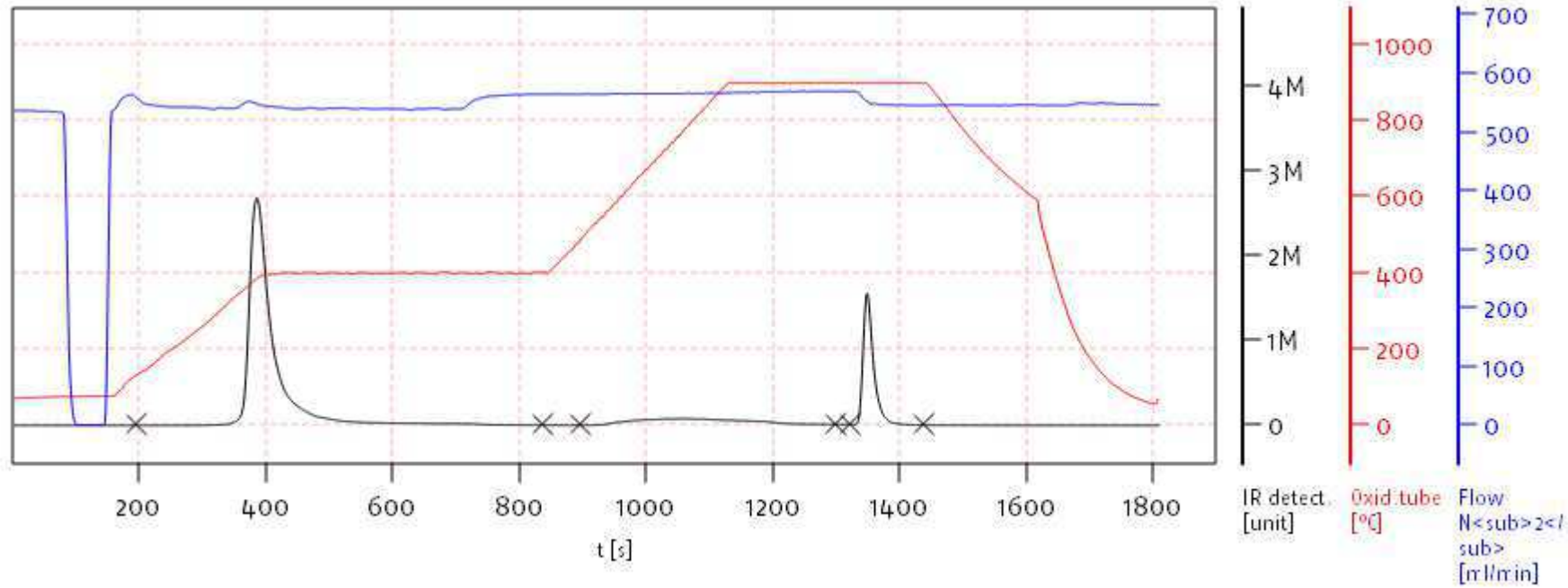
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
166	77	BKL0652-SRM1	274.70		CARBON	1/1/2023 2:26 AM	bl	2.992	4 317 746	3.355	0.624	1 134 237	670 186	2.368	0.363	0.9791	1.0000



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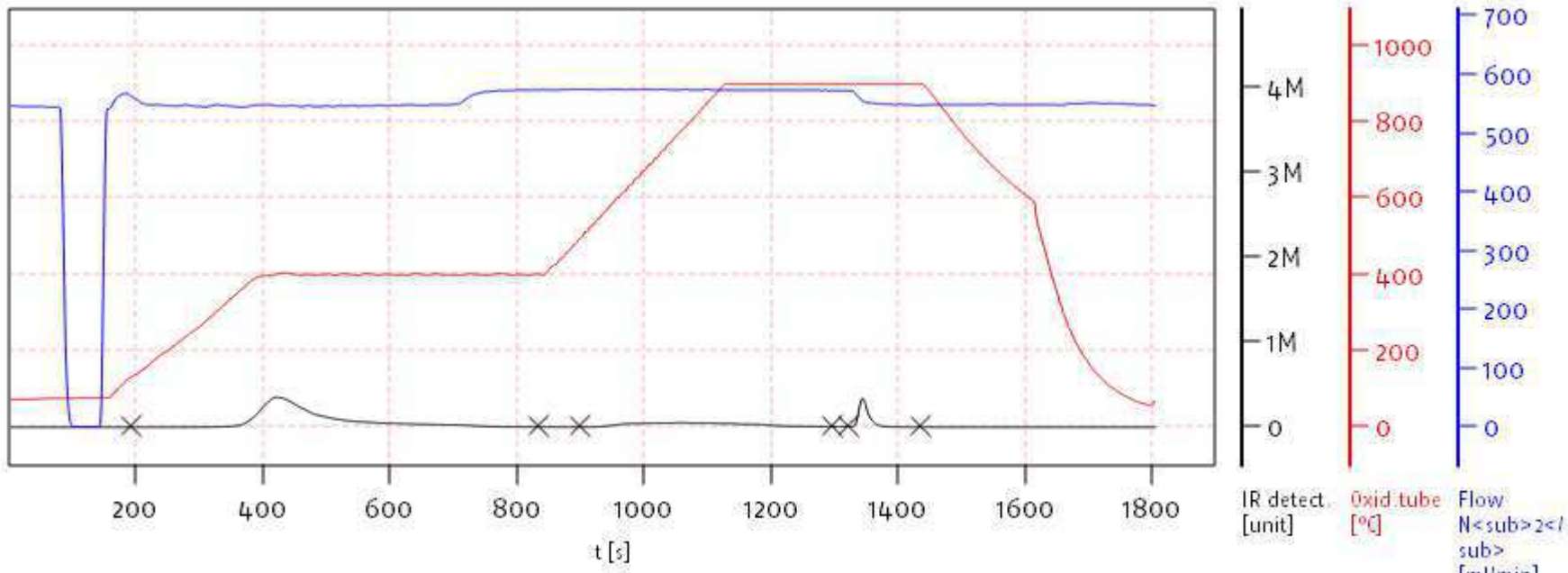
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
167	78	22L0329-41	525.30		CARBON	1/1/2023 2:57 AM	bl	0.498	1 543 037	0.621	0.060	230 904	443 169	0.438	0.123	0.9791	1.0000



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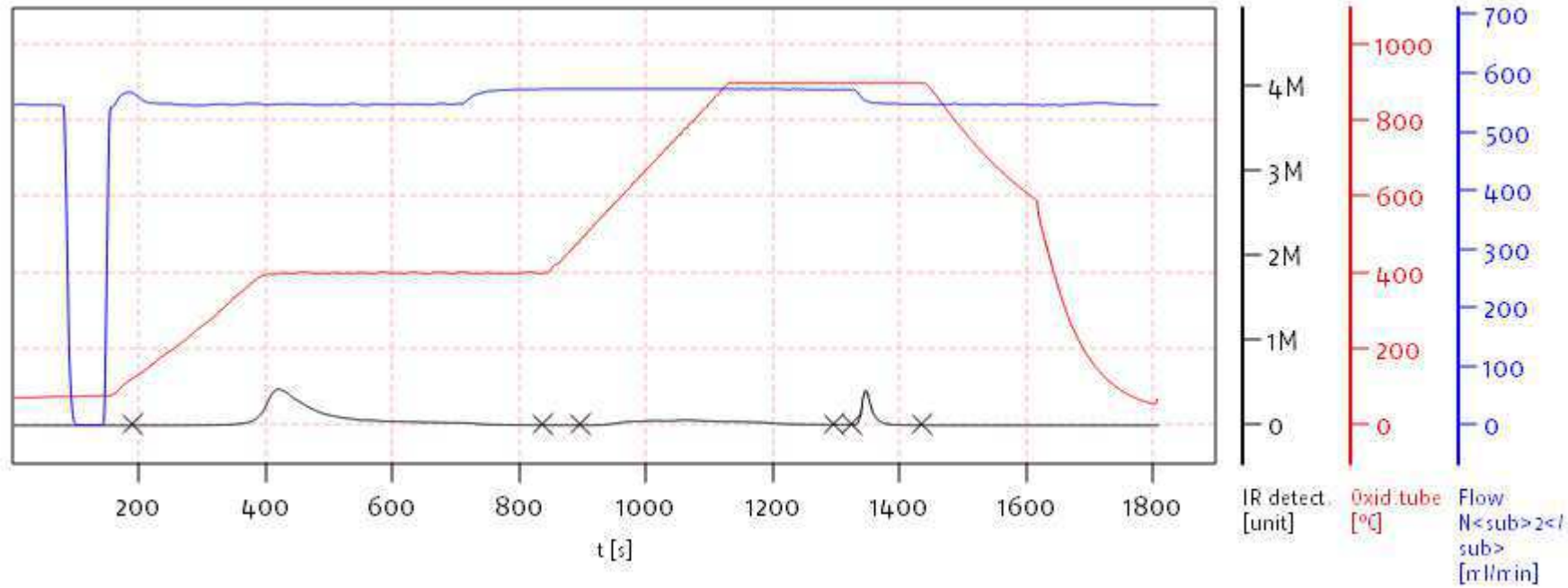
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
168	79	BKL0652-DUP1	572.30		CARBON	1/1/2023 3:27 AM	bl	0.506	1 662 421	0.634	0.072	294 170	501 341	0.433	0.128	0.9791	1.0000



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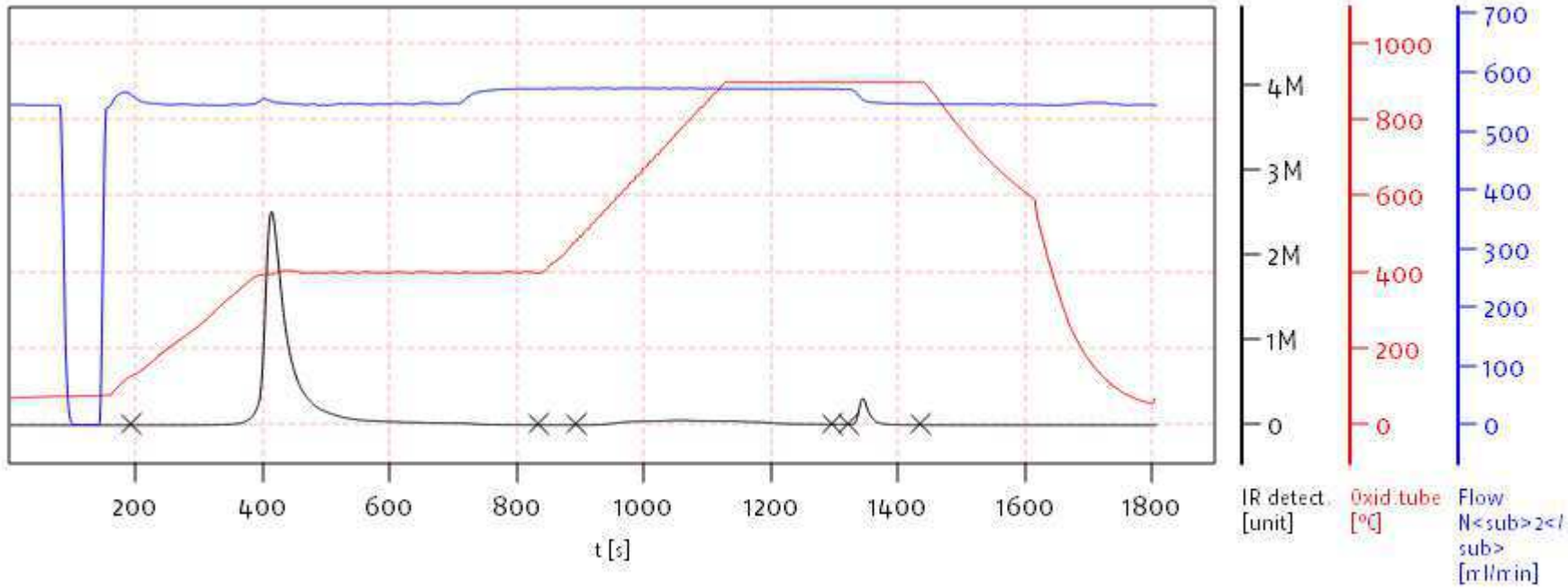
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
169	80	BKL0652-MS1	511.60	0.0088	CARBON	1/1/2023 3:58 AM	bl	1.299	4 204 636	1.436	0.061	227 545	479 384	1.238	0.137	0.9791	1.0000



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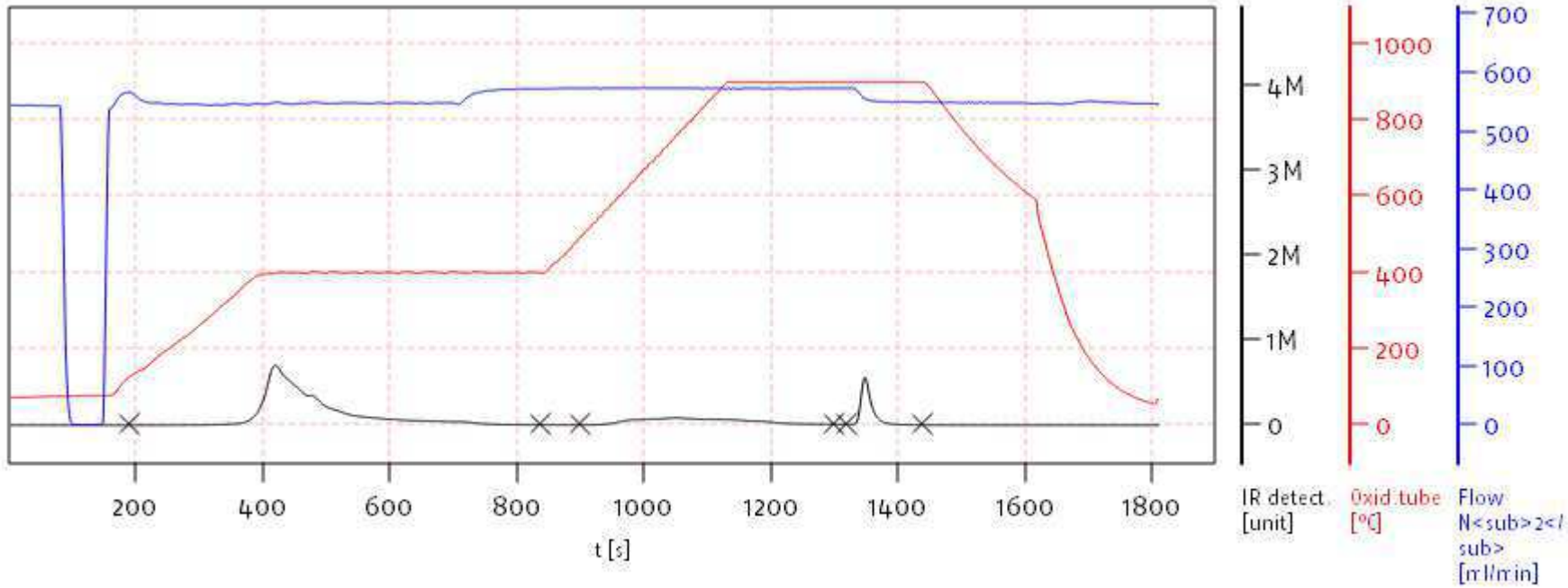
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
170	81	22L0329-42	639.30		CARBON	1/1/2023 4:28 AM	bl	0.697	2 572 338	0.852	0.093	410 589	668 854	0.604	0.156	0.9791	1.0000



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Balance: BAL3
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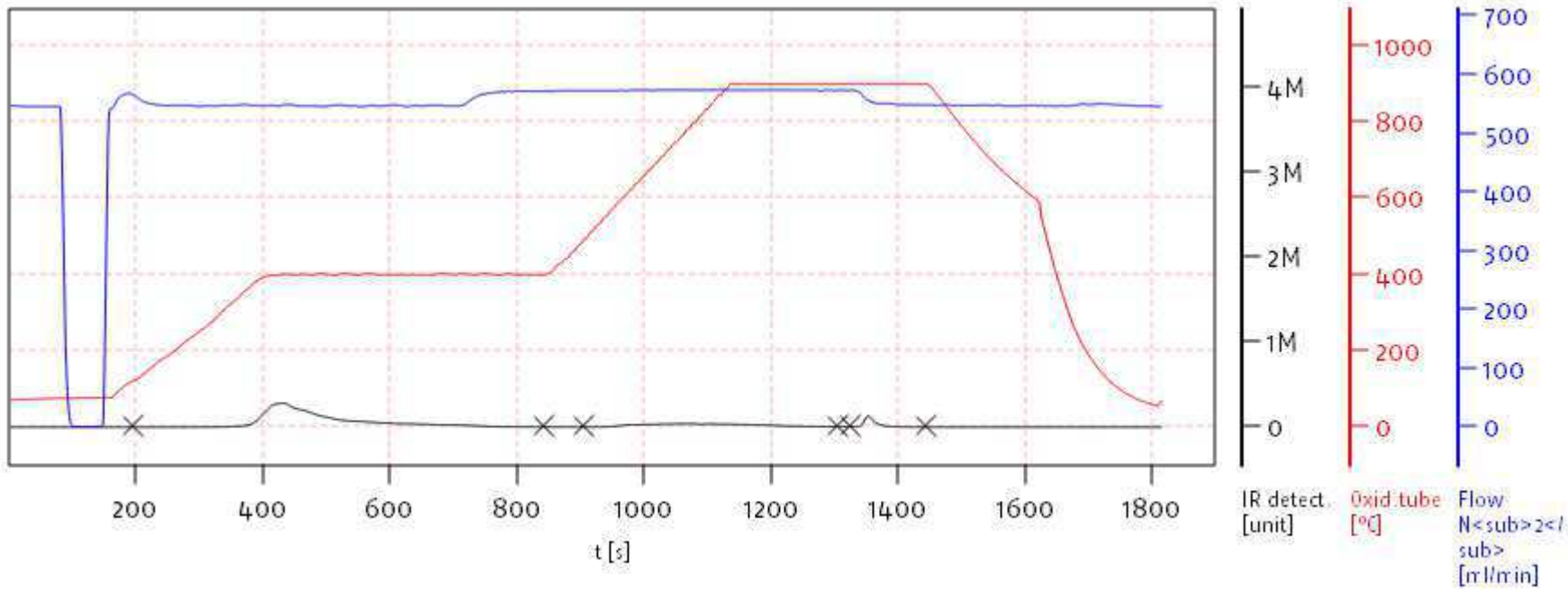
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
171	82	22L0329-43	504.10		CARBON	1/1/2023 4:59 AM	bl	0.408	1 306 683	0.503	0.023	101 968	335 027	0.385	0.095	0.9791	1.0000



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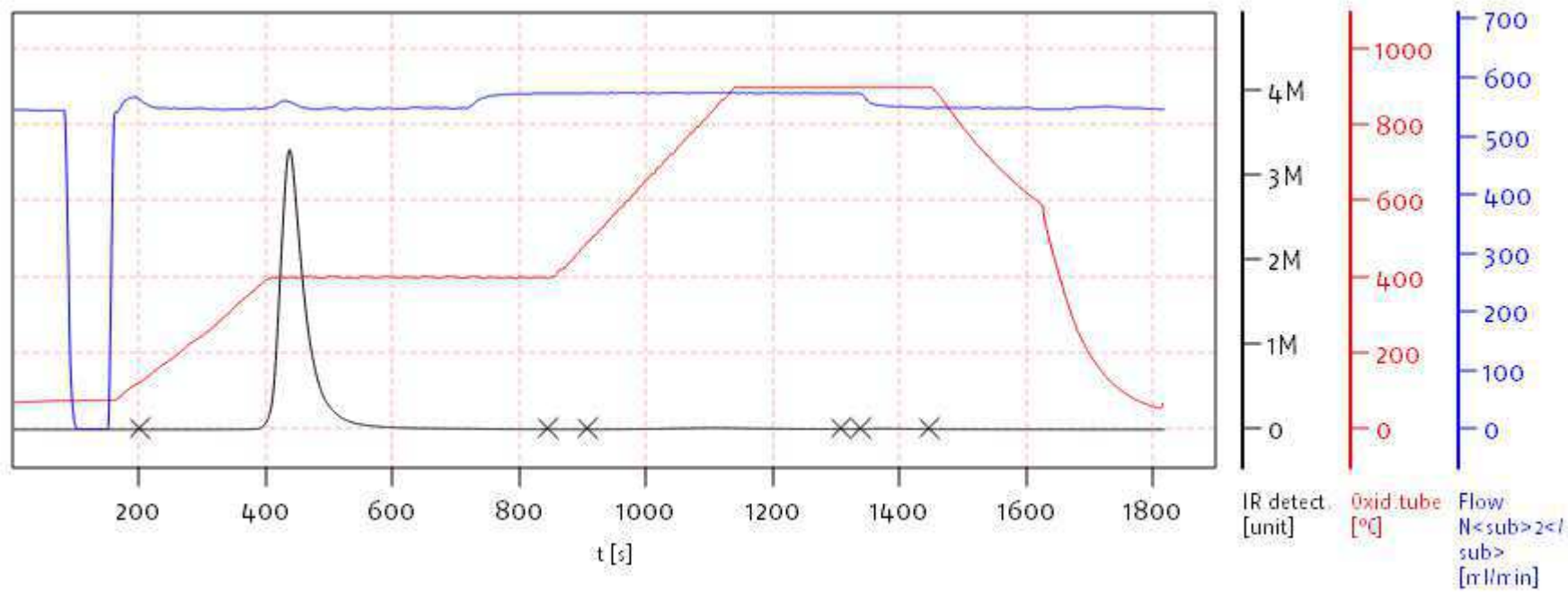
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
172	83	SKL0336-CCVE	20.00		CARBON	1/1/2023 5:30 AM	bl	43.330	5 741 152	44.176	0.024	29 599	135 812	43.306	0.846	0.9791	1.0000



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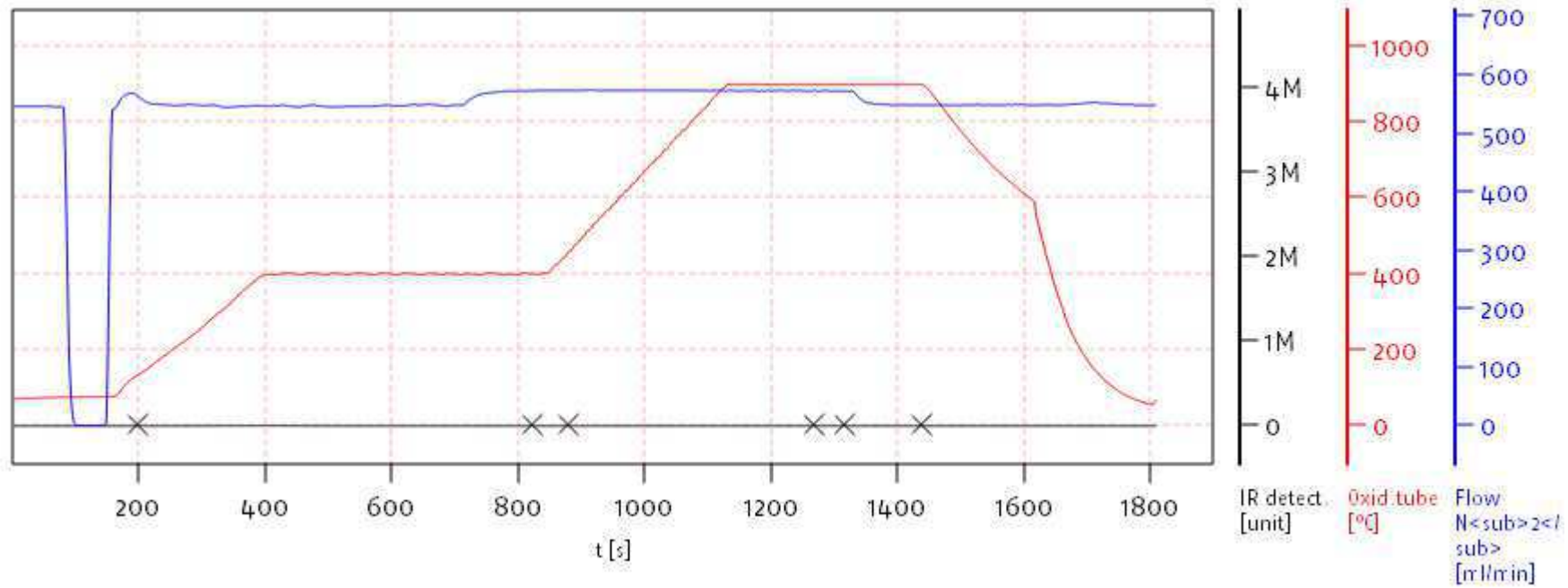
Mode CCC

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
173	84	SKL0336-CCBE	526.20		CARBON	1/1/2023 6:00 AM	bl,C3u,C2u	0.000	12 891	0.000	0.000	829	2 244	0.000	0.000	0.9791	1.0000



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Soli TOC Cube, Carbon
Balance: BAL3
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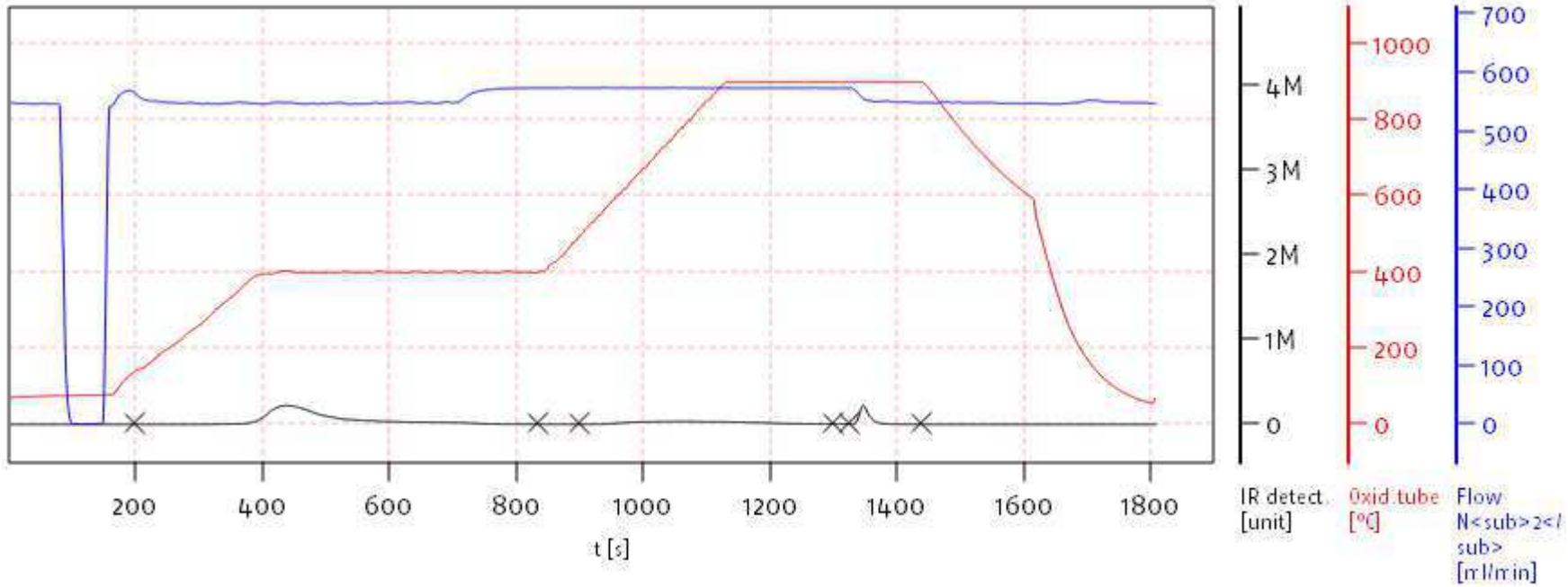
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
174	85	22L0329-44	538.20		CARBON	1/1/2023 6:31 AM	bl	0.322	1 039 842	0.400	0.037	155 299	295 151	0.285	0.077	0.9791	1.0000



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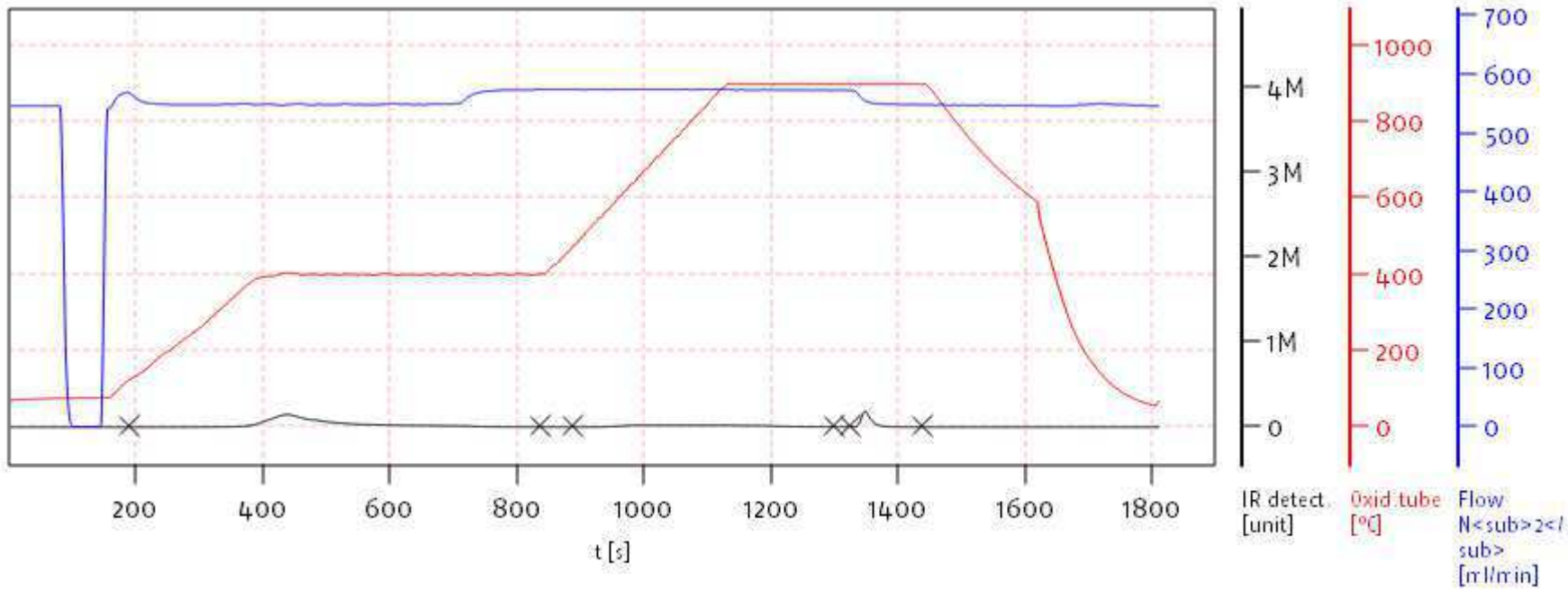
	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
175	86	22L0329-45	538.70		CARBON	1/1/2023 7:01 AM	bl	0.211	671 810	0.262	0.030	130 131	203 608	0.182	0.051	0.9791	1.0000



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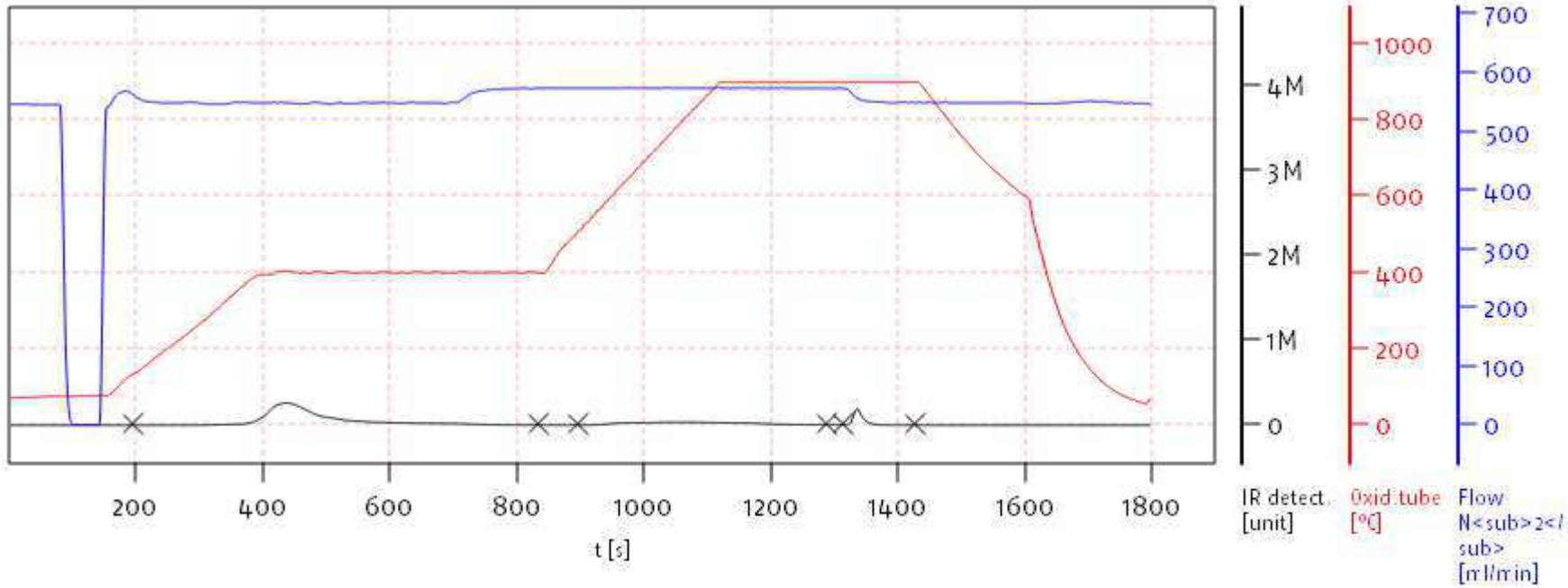
elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
176	87	22L0329-46	523.20		CARBON	1/1/2023 7:32 AM	bl	0.337	1 086 433	0.416	0.030	127 029	292 928	0.307	0.079	0.9791	1.0000



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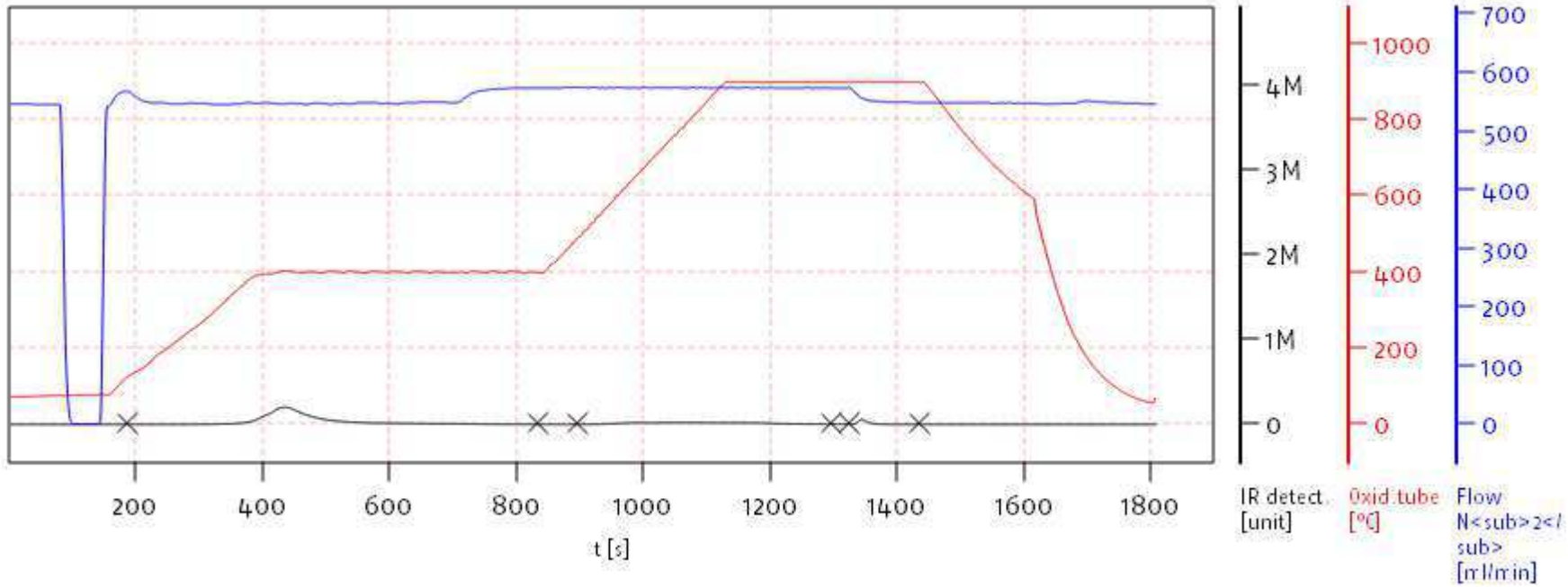
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
177	88	22L0329-47	508.70		CARBON	1/1/2023 8:02 AM	bl	0.216	738 309	0.270	0.004	40 129	203 065	0.212	0.054	0.9791	1.0000



Name:

Access: soliTOC superuser

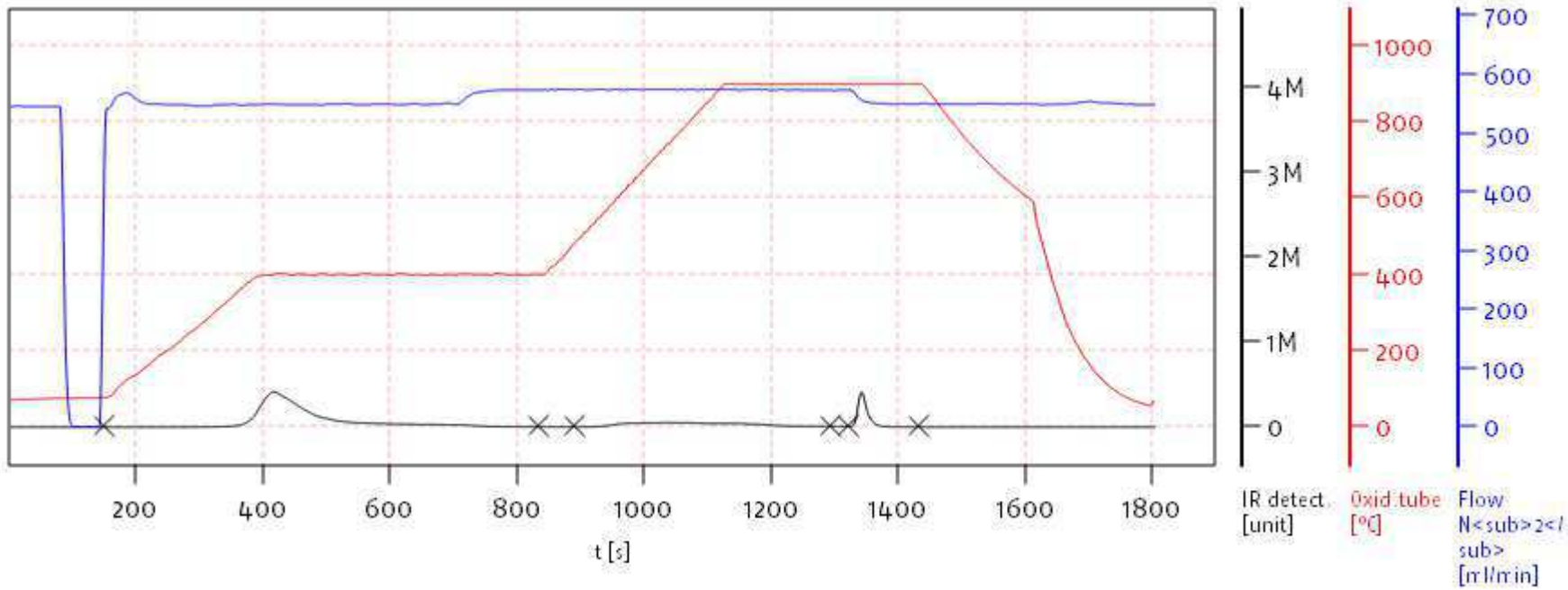
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
178	89	22L0329-48	535.90		CARBON	1/1/2023 8:33 AM	bl	0.504	1 559 791	0.631	0.070	270 408	466 131	0.434	0.127	0.9791	1.0000



Name:

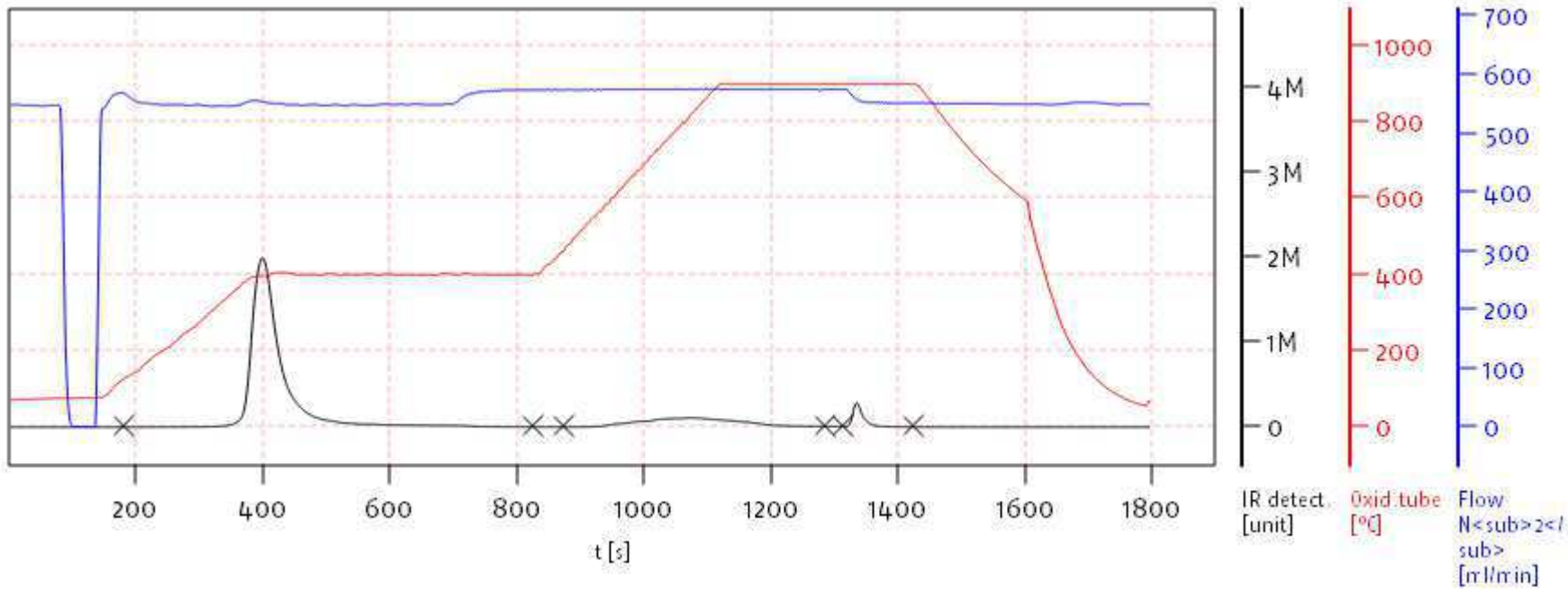
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
179	1	22L0459-01	546.90		CARBON	1/1/2023 9:03 AM	bl	1.132	3 929 880	1.339	0.051	205 048	756 445	1.082	0.207	0.9791	1.0000



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Access: soliTOC superuser

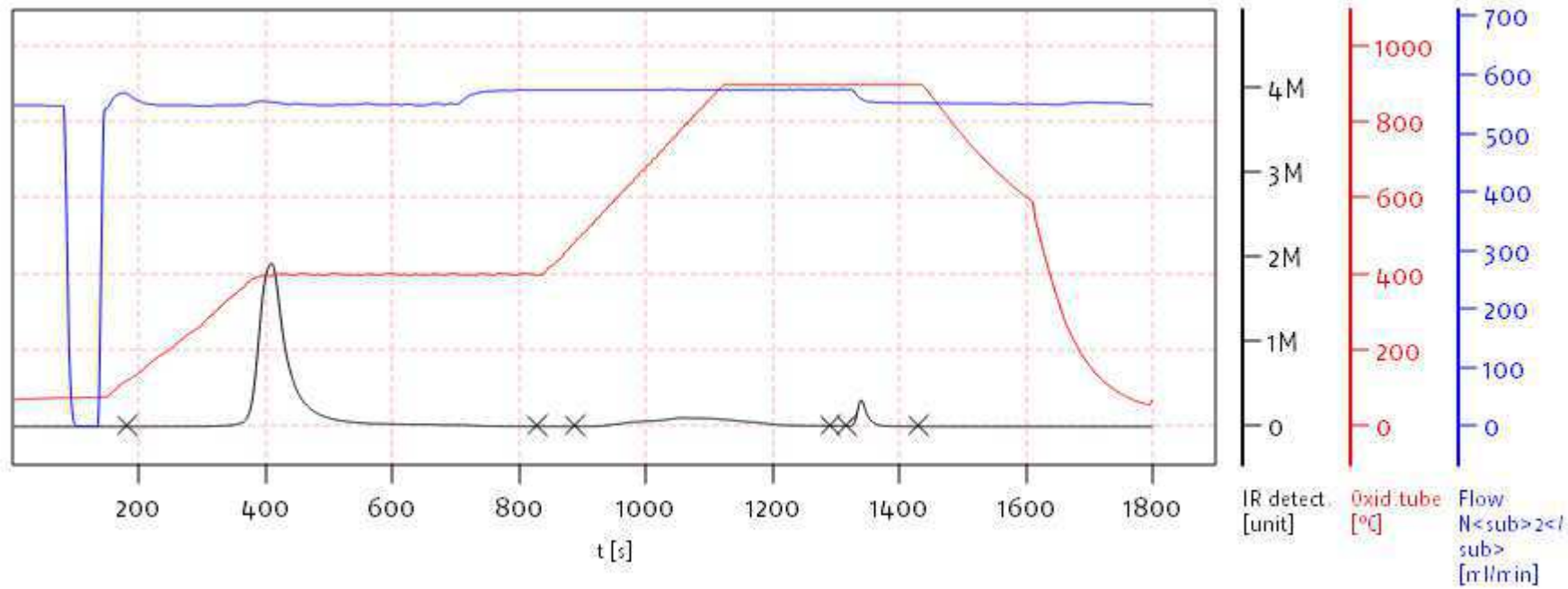
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
180	2	BKL0652-DUP2	525.60		CARBON	1/1/2023 9:34 AM	bl	1.196	3 979 426	1.403	0.057	218 619	728 170	1.140	0.207	0.9791	1.0000



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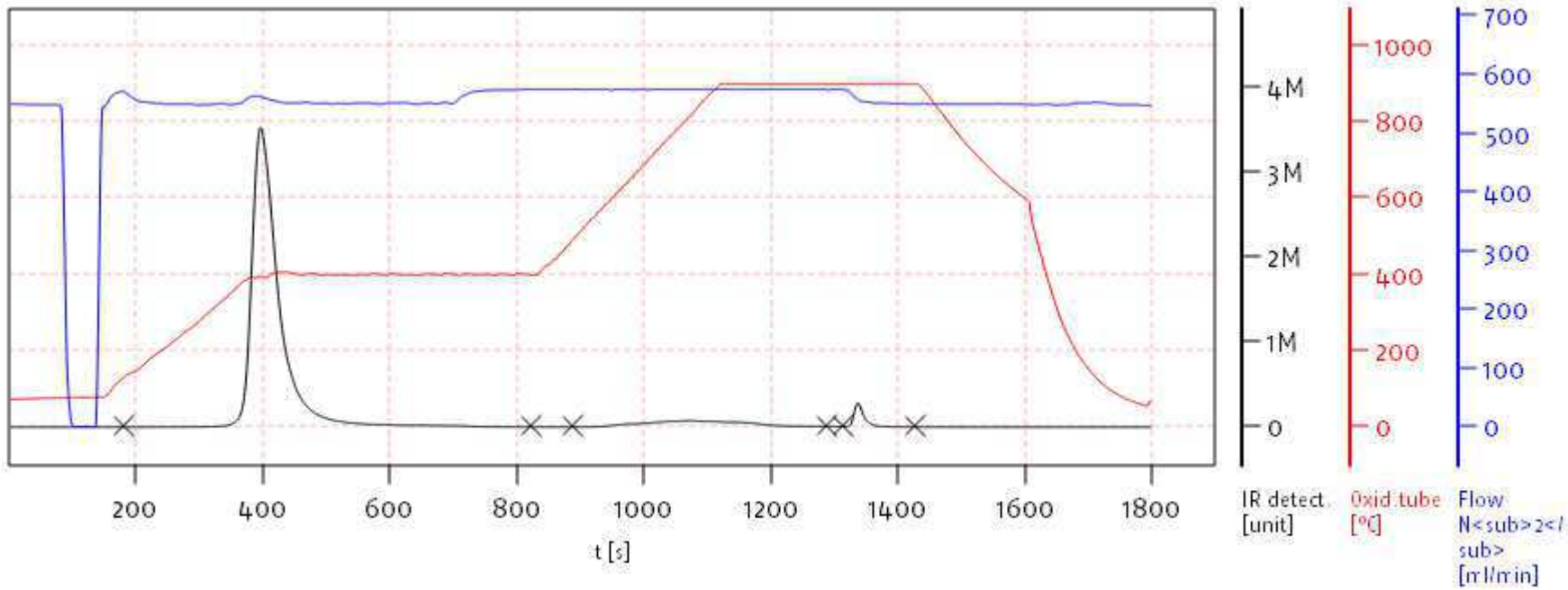
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
181	3	BKL0652-MS2	503.70	0.0083	CARBON	1/1/2023 10:04 AM	bl	2.004	6 508 376	2.164	0.053	199 401	550 122	1.950	0.161	0.9791	1.0000



Name:

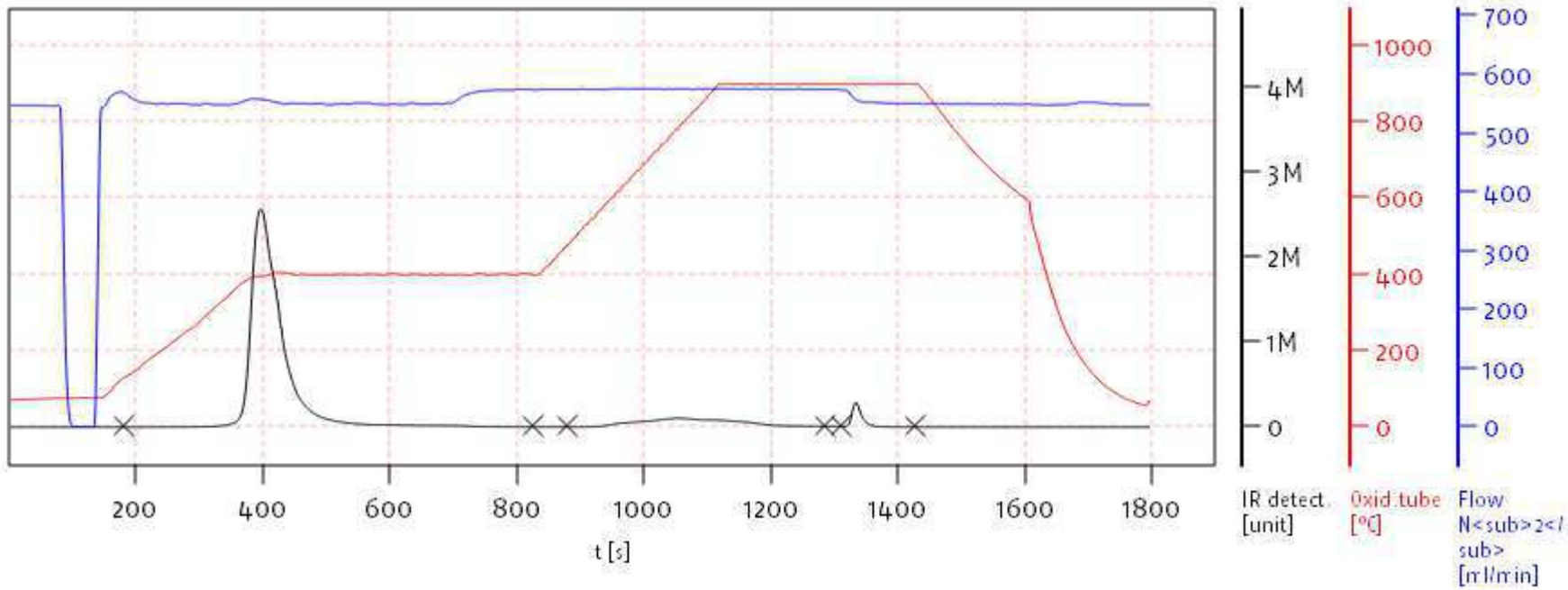
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
182	4	22L0459-02	553.00		CARBON	1/1/2023 10:34 AM	bl	1.489	5 283 699	1.686	0.048	198 987	728 467	1.441	0.196	0.9791	1.0000



Name:

Access: soliTOC superuser

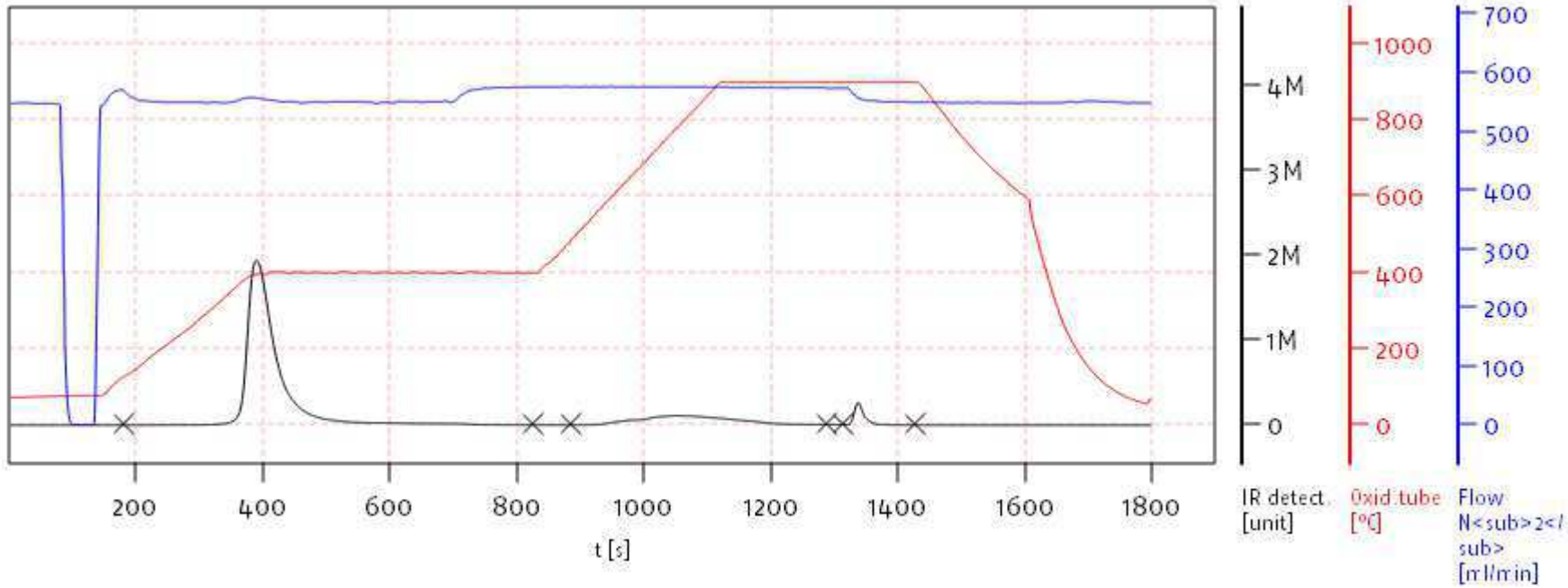
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
183	5	22L0459-03	504.10		CARBON	1/1/2023 11:05 AM	bl	1.204	3 870 882	1.426	0.049	184 651	747 999	1.156	0.222	0.9791	1.0000



Name:

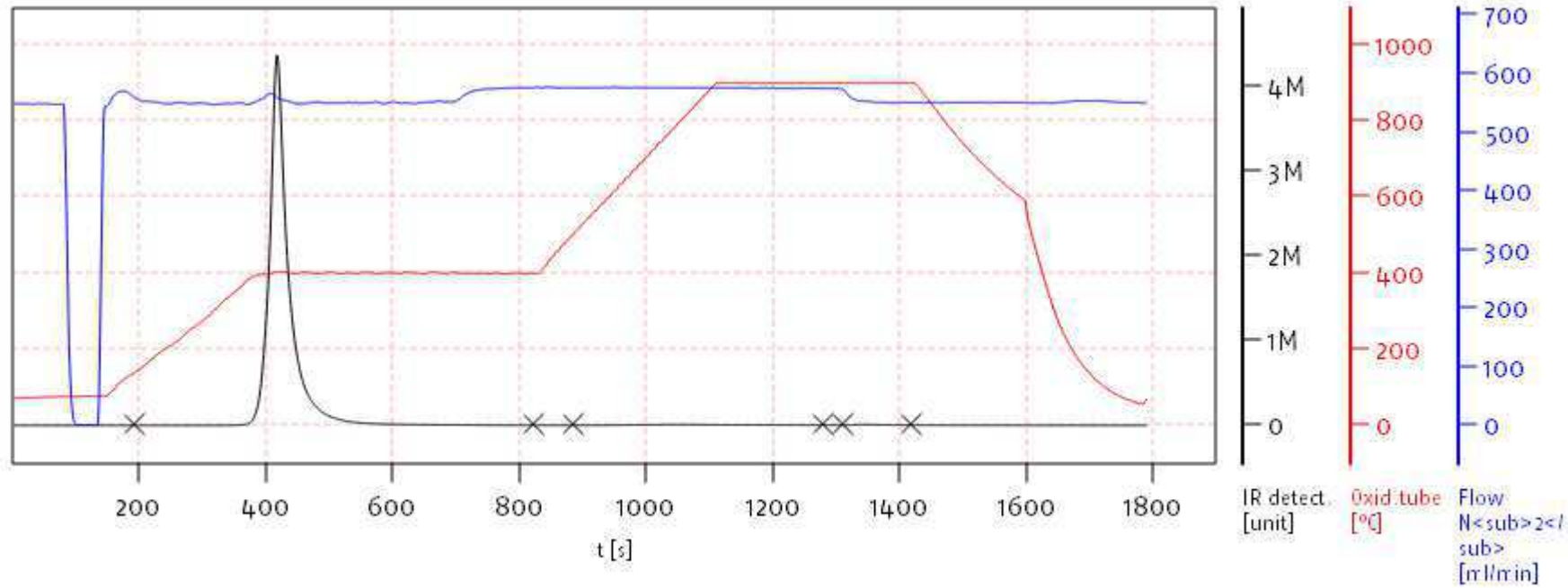
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
184	6	SKL0336-CCVF	19.70		CARBON	1/1/2023 11:35 AM	bl	43.919	5 734 995	44.345	0.000	24 057	80 776	43.919	0.426	0.9791	1.0000



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Access: soliTOC superuser

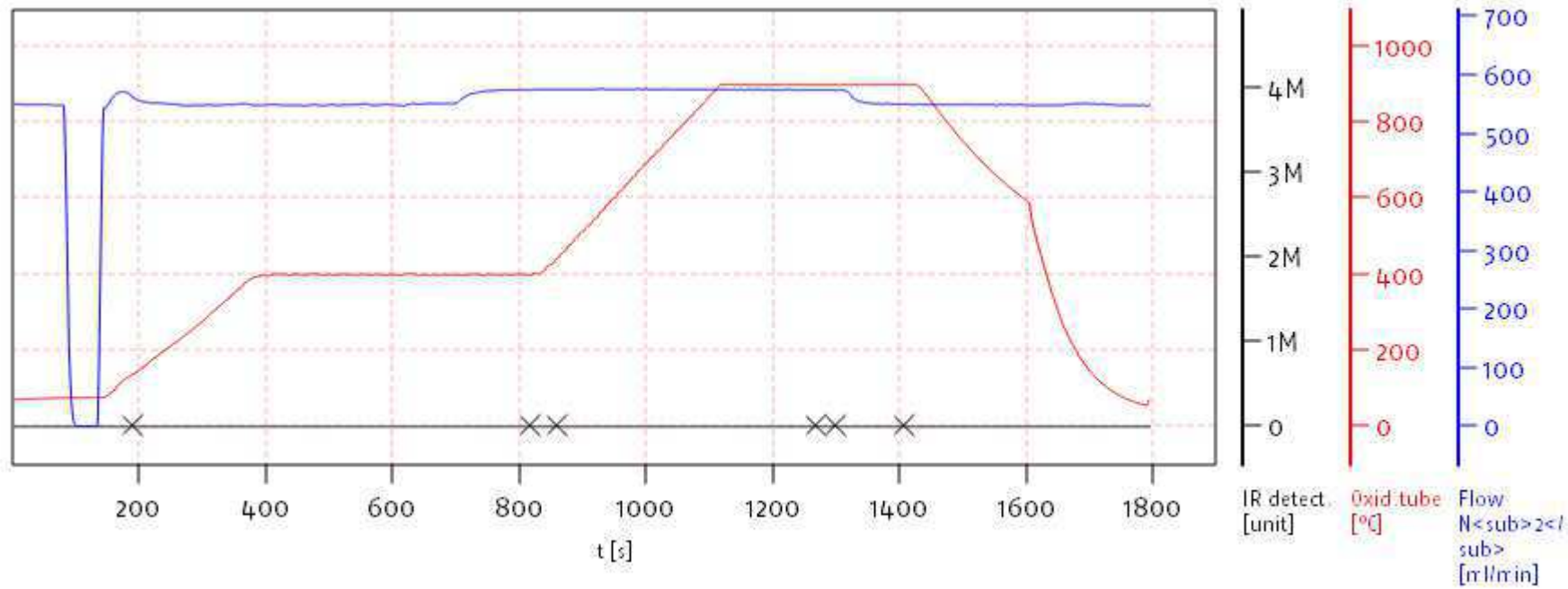
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
185	7	SKL0336-CCBF	503.50		CARBON	1/1/2023 12:05 PM	bl,C2u	0.000	3 712	0.000	0.000	947	3 000	0.000	0.000	0.9791	1.0000



Name:

Access: soliTOC superuser

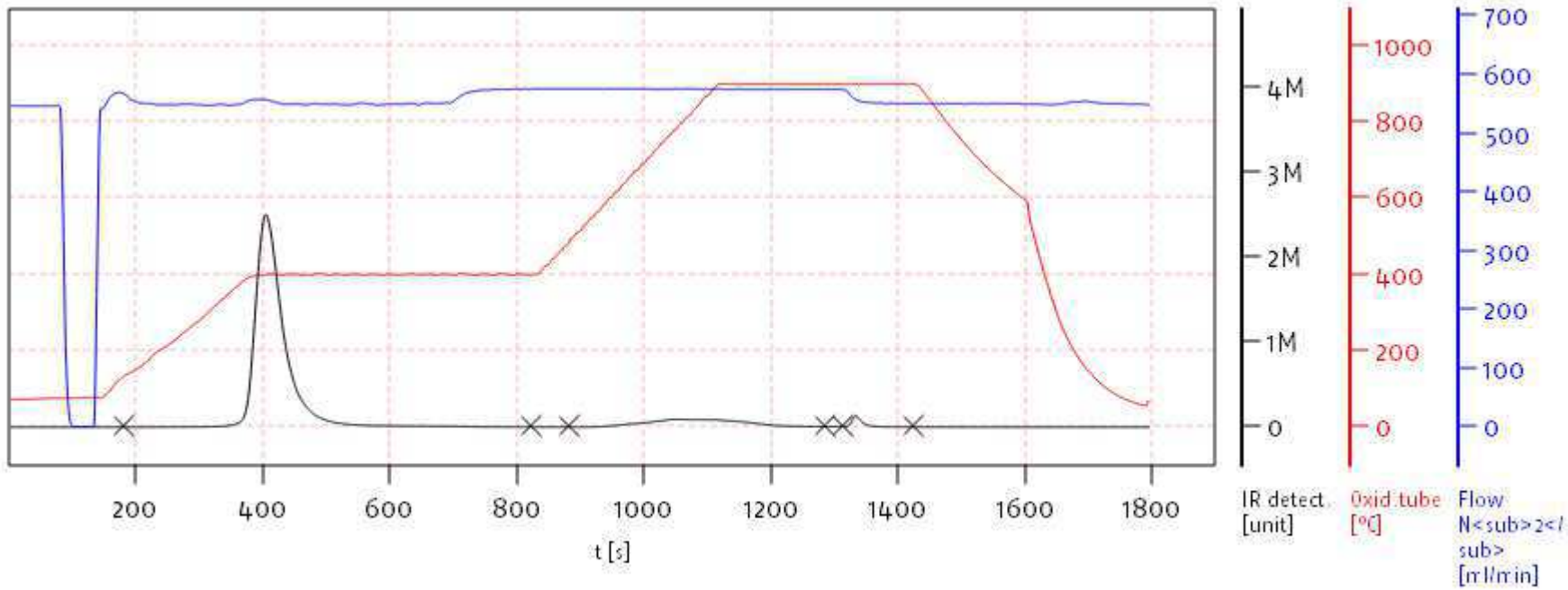
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
186	8	22L0459-04	585.50		CARBON	1/1/2023 12:36 PM	bl	1.262	4 828 602	1.424	0.019	97 318	641 567	1.243	0.163	0.9791	1.0000



Name:

Access: soliTOC superuser

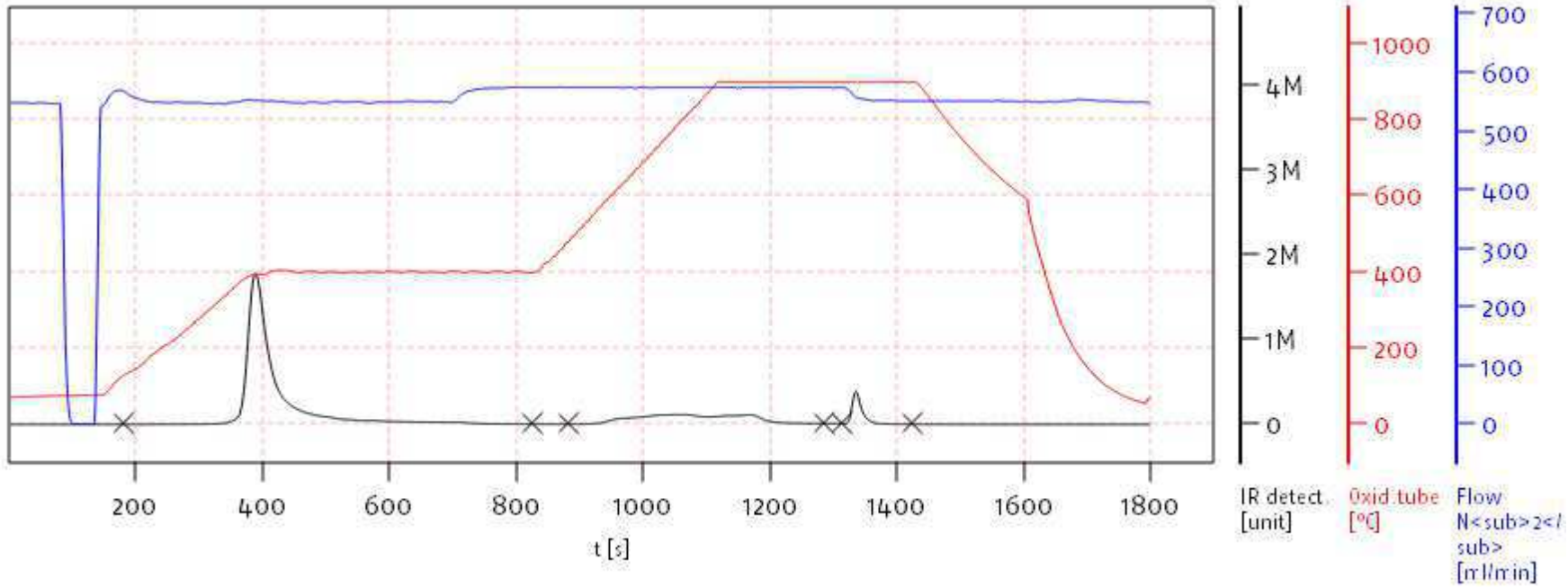
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
187	9	22L0459-05	518.10		CARBON	1/1/2023 1:06 PM	bl	1.002	3 206 499	1.285	0.072	267 557	971 388	0.930	0.282	0.9791	1.0000



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Access: soliTOC superuser

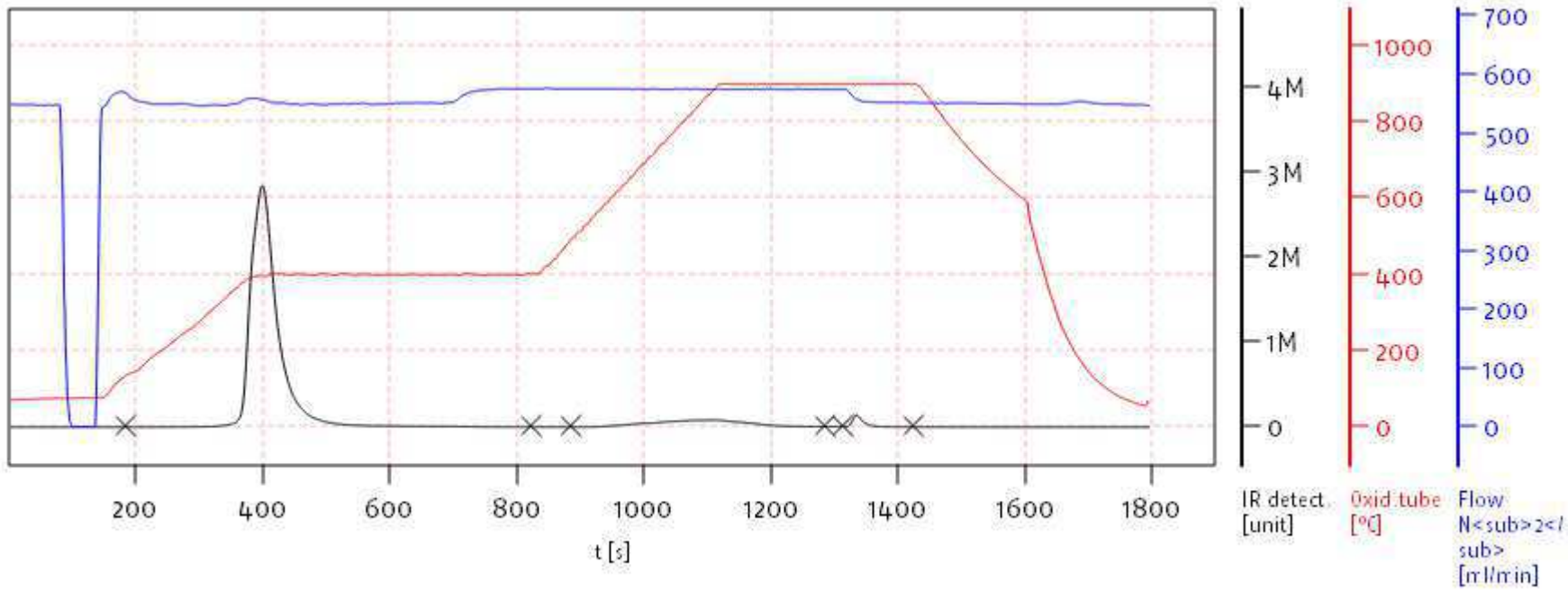
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
188	10	22L0459-06	541.60		CARBON	1/1/2023 1:36 PM	bl	1.470	5 195 518	1.622	0.023	107 213	559 662	1.447	0.152	0.9791	1.0000



Name:

Access: soliTOC superuser

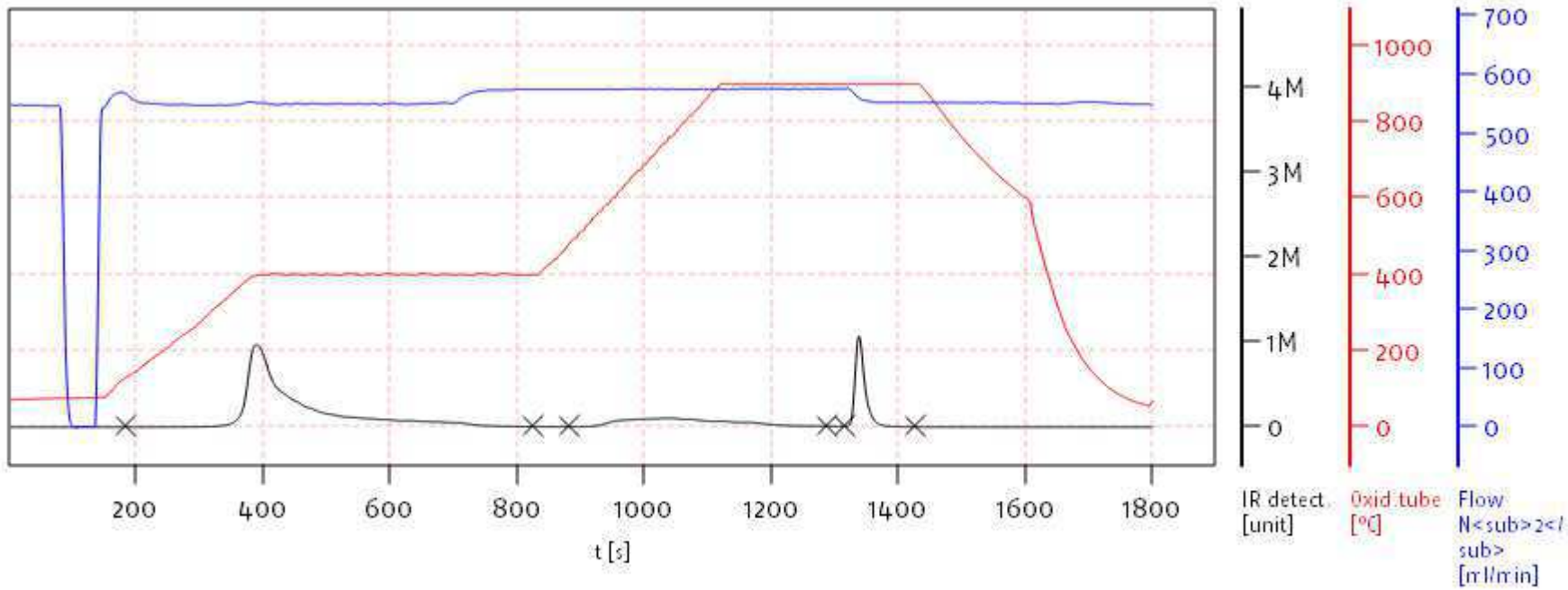
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
189	11	22L0459-07	530.60		CARBON	1/1/2023 2:07 PM	bl	1.082	3 098 637	1.313	0.204	727 192	819 749	0.878	0.231	0.9791	1.0000



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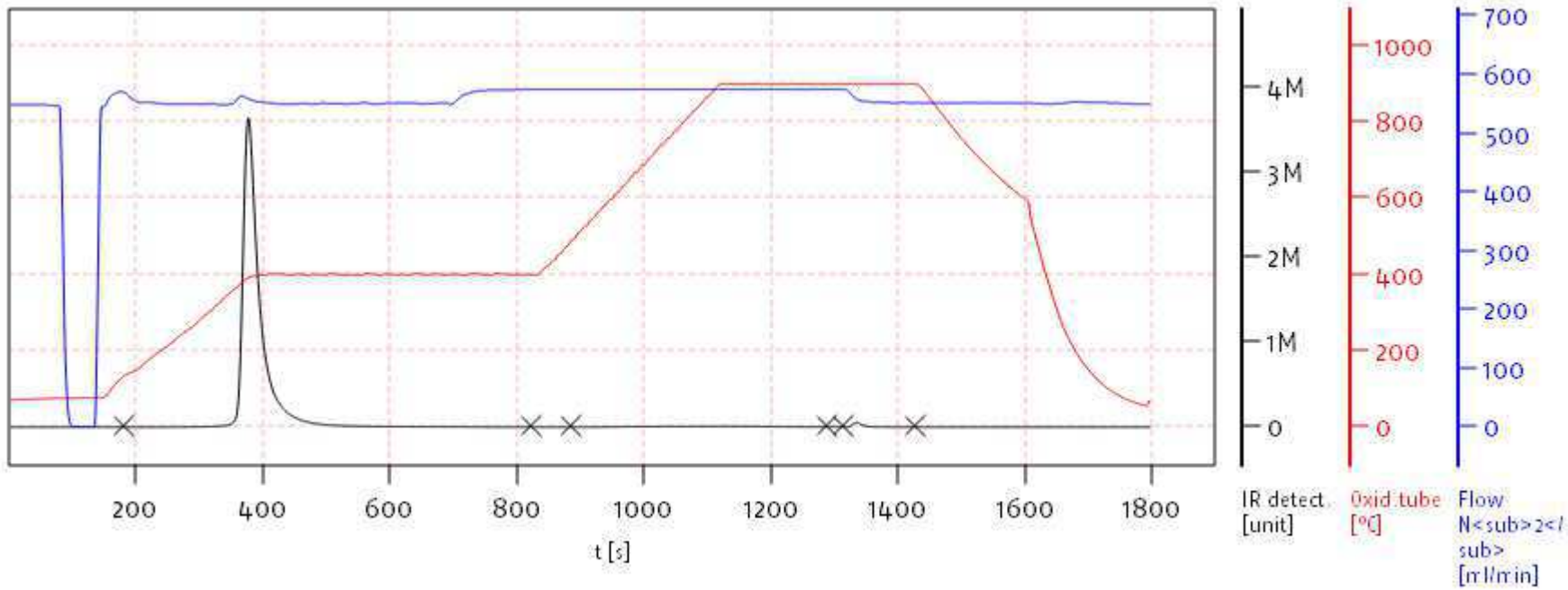
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
190	12	BKL0502-MS2	95.30	0.0093	CARBON	1/1/2023 2:37 PM	bl	6.642	4 192 295	6.731	0.017	37 127	81 180	6.625	0.089	0.9791	1.0000



Name:

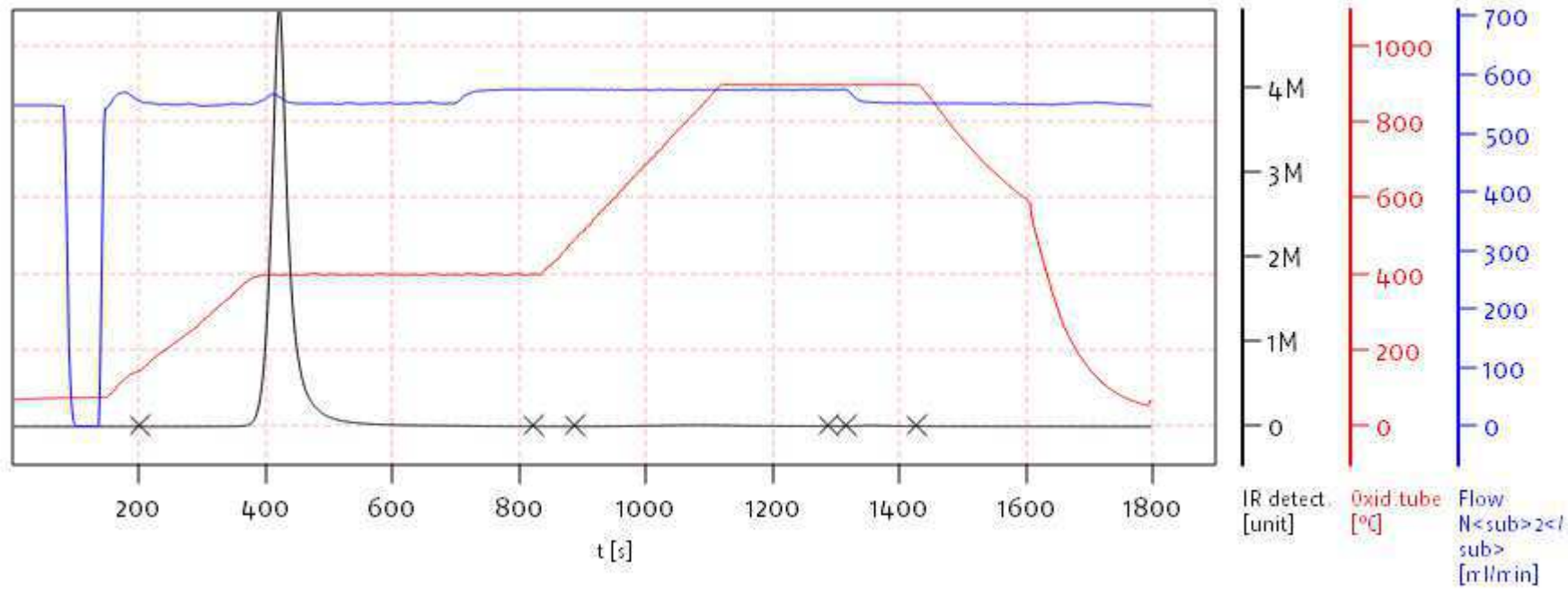
Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
191	13	SKL0336-CCVG	22.00		CARBON	1/1/2023 3:07 PM	bl	44.105	6 421 622	44.872	0.047	33 273	135 625	44.057	0.768	0.9791	1.0000



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Access: soliTOC superuser

Date: Tue Jan 3 07:07:46 2023

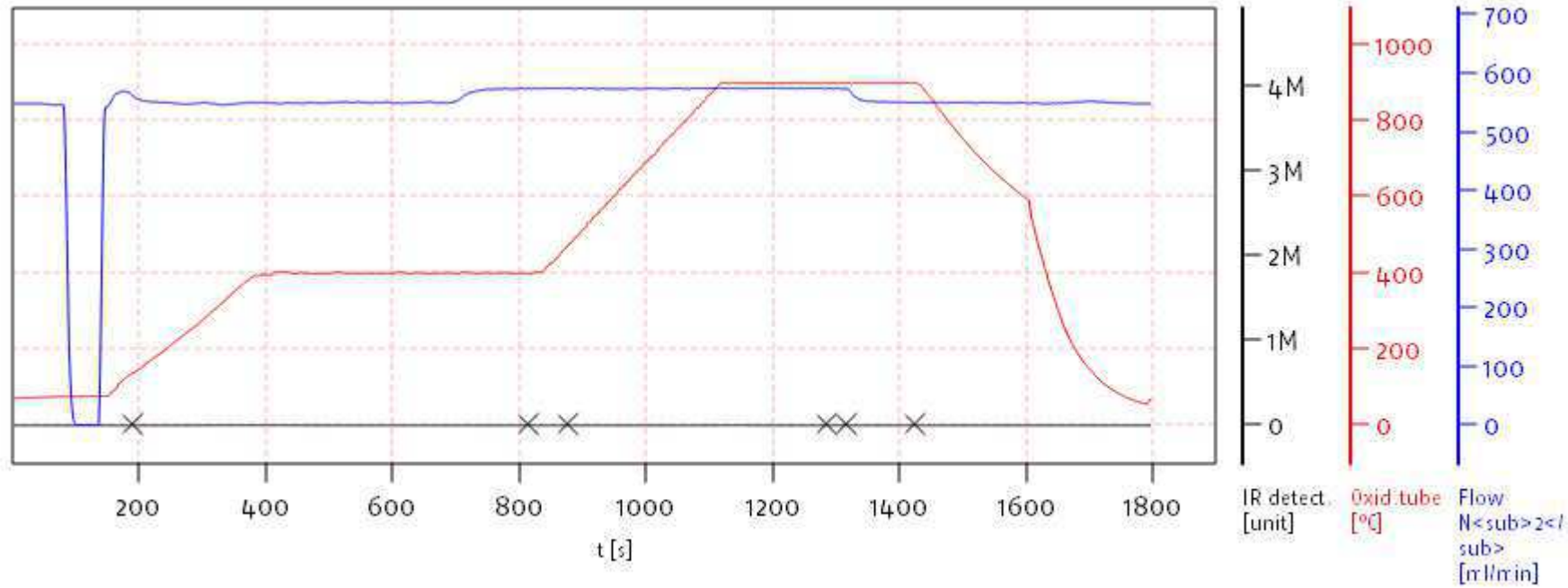
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122822 DOE from: 1/3/2023 7:07 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
192	14	SKL0336-CCBG	510.60		CARBON	1/1/2023 3:38 PM	bl,C2u	0.000	10 989	0.000	0.000	846	4 670	0.000	0.000	0.9791	1.0000



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Access: soliTOC superuser

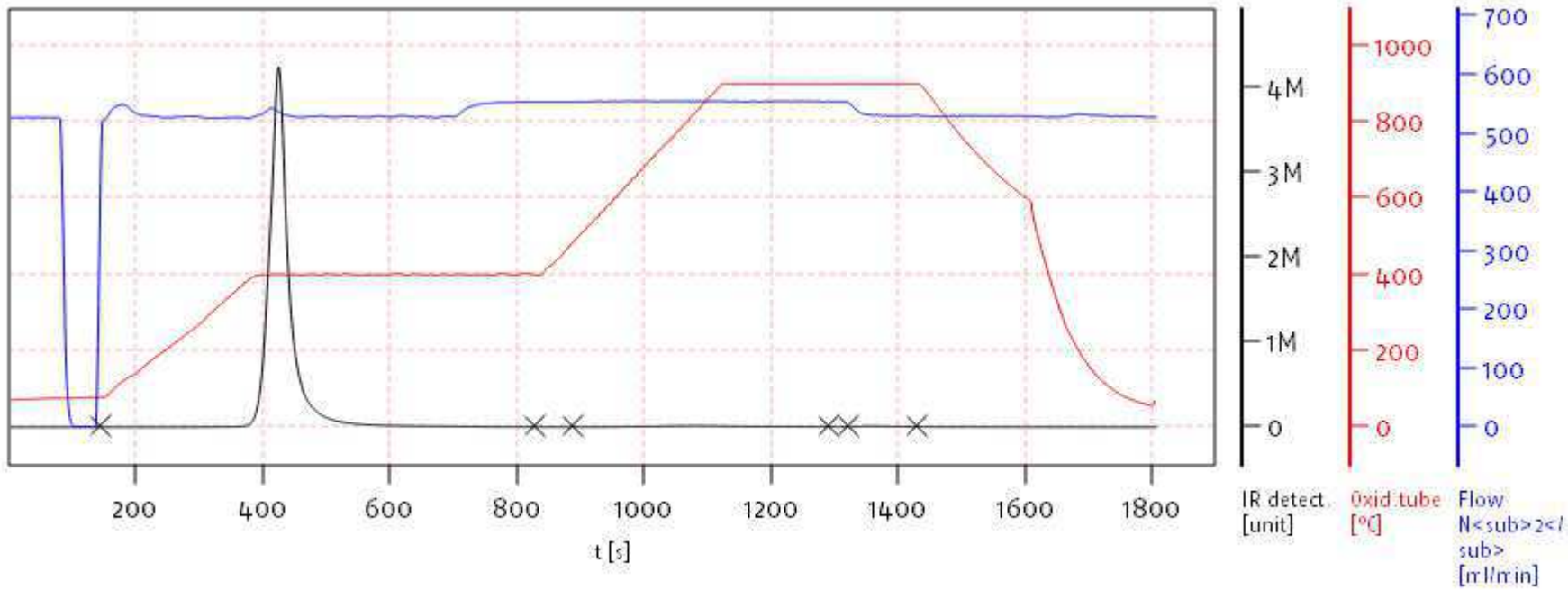
Date: Tue Jan 3 07:07:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Method	Date Time	Info	TOC [%]	TOC400 Area	TC [%]	ROC [%]	ROC Area	TIC900 Area	TOC400 [%]	TIC900 [%]	TOC400 Factor	TIC900 Factor
95	6	BKL0650-BS1	19.10		CARBON		bl	45.077	5 715 005	45.698	0.014	28 228	103 151	45.063	0.621	0.9774	1.0000



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Access: soliTOC superuser

Date: Tue Jan 3 07:16:46 2023

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 122822 DOE from: --.--.-- (modified)

Analytical Resources, LLC
Analytical Chemists and Consultants

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

Compound	Level 01		Level 02		Level 03		Level 04		Level 05		Level 06	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
Total Inorganic Carbon	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085
% Soot	0.0080973	1449743	0.014695	1300238	0.021293	1292913	0.02939	1293535	0.044385	2094063	0.05878	1400085

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 07		Level 08		Level 09		Level 10		Level 11		Level 12	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
Total Inorganic Carbon	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135
% Soot	0.074075	1370638	0.08937	1351930	0.12056	2158544	0.14995	1559046	0.24	1346463	0.288	1430135

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 13		Level 14		Level 15		Level 16		Level 17		Level 18	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
Total Inorganic Carbon	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882
% Soot	0.414	1337053	0.606	1385937	0.894	1382774	1.188	1379790	1.5	1375927	1.818	1372882

INITIAL CALIBRATION DATA

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Calibration: FD00070
Instrument: TOC Cube
Calibration Date: 04/26/2022 11:29

Compound	Level 19		Level 20		Level 21		Level 22		Level 23		Level 24	
	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF	Conc	RF
Total Organic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
Total Inorganic Carbon	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408
% Soot	2.49	1398606	2.982	1376871	4.188	1256057	4.818	1279542	5.406	1283358	7.2	1301408

INITIAL CALIBRATION DATA

EPA 9060A m

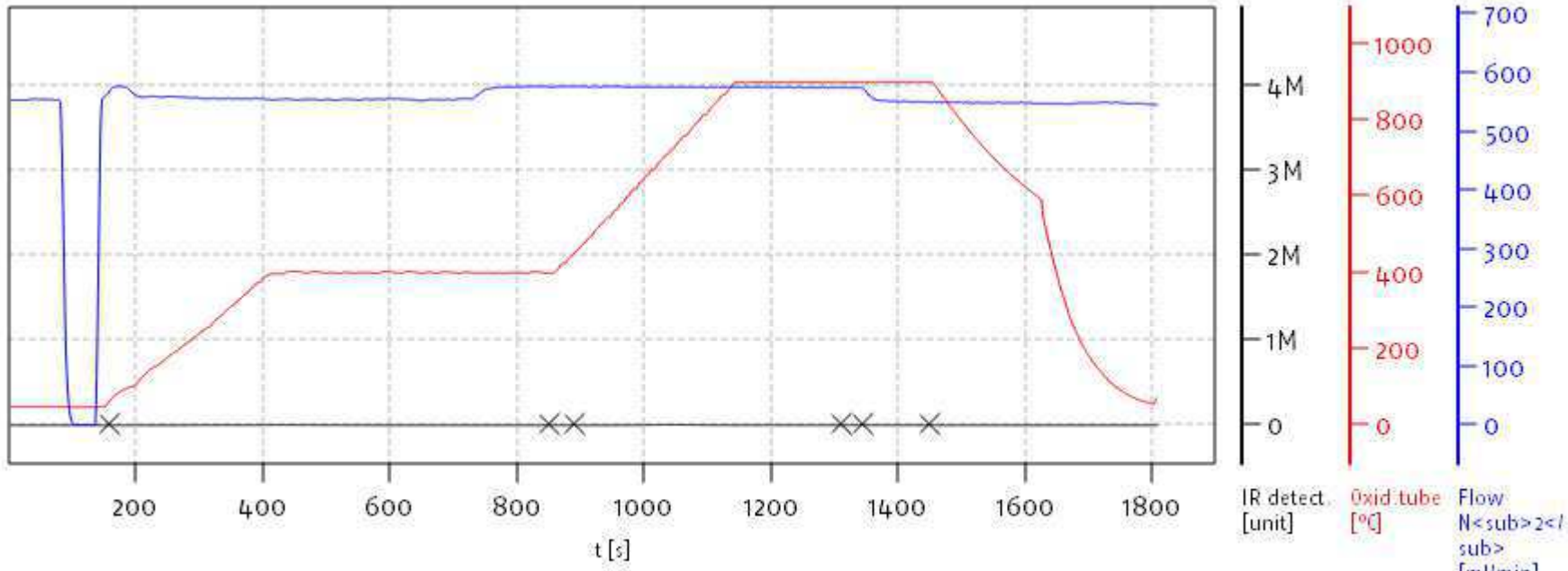
Laboratory:	Analytical Resources, LLC	SDG:	22L0246
Client:	Anchor QEA, LLC	Project:	AOC4 UR Phase 3
Calibration:	FD00070	Instrument:	TOC Cube
Calibration Date:	04/26/2022 11:29		

COMPOUND	Mean RF	RF RSD	Linear COD	Quad COD	COD Limit	Q
Total Organic Carbon	1424064	15.9	0.9988			
Total Carbon	1424064	15.9	0.9988			
Total Inorganic Carbon	1424064	15.9	0.9988			
% Soot	1424064	15.9	0.9988			

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
1	1	BLANK	1.00		1.00	CARBON	4/26/2022 11:29 AM	0.000	0.000	0.000	bl	29 049	30 612	3 899	1.0000	1.0000



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

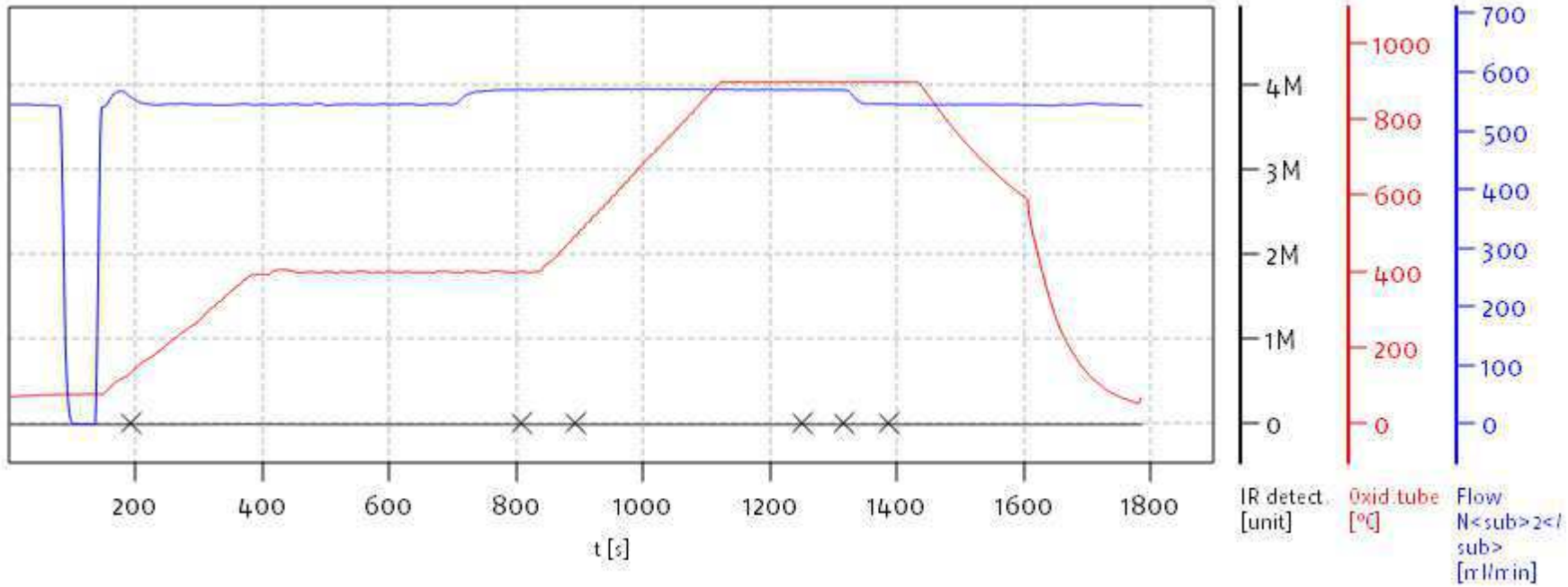
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
2	2	BLANK	1.00		1.00	CARBON	4/26/2022 12:00 PM	0.000	0.000	0.000	bl	11 115	60	8	1.0000	1.0000



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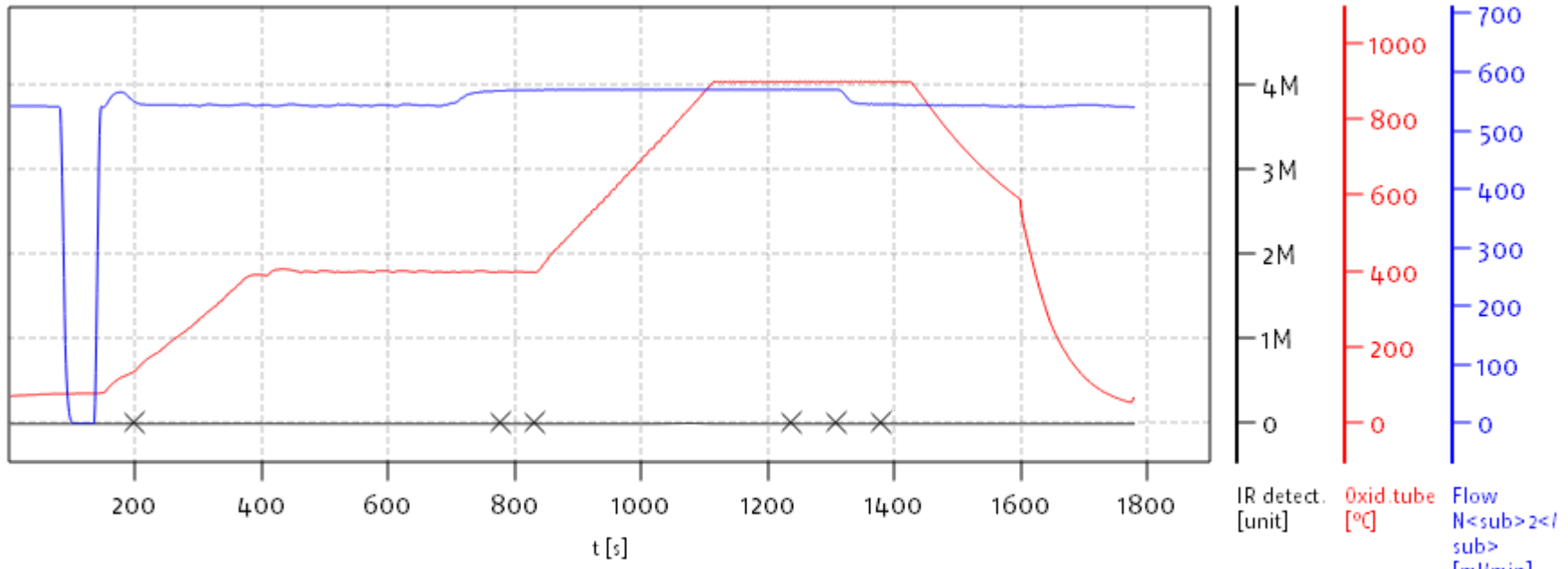
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
3	3	SEQ-CAL1	200.00	0.0027	1.00	CARBON	4/26/2022 12:30 PM	0.010	0.008	0.018	bl,C1u,C2u	7 294	11 739	22	1.0000	0.7425



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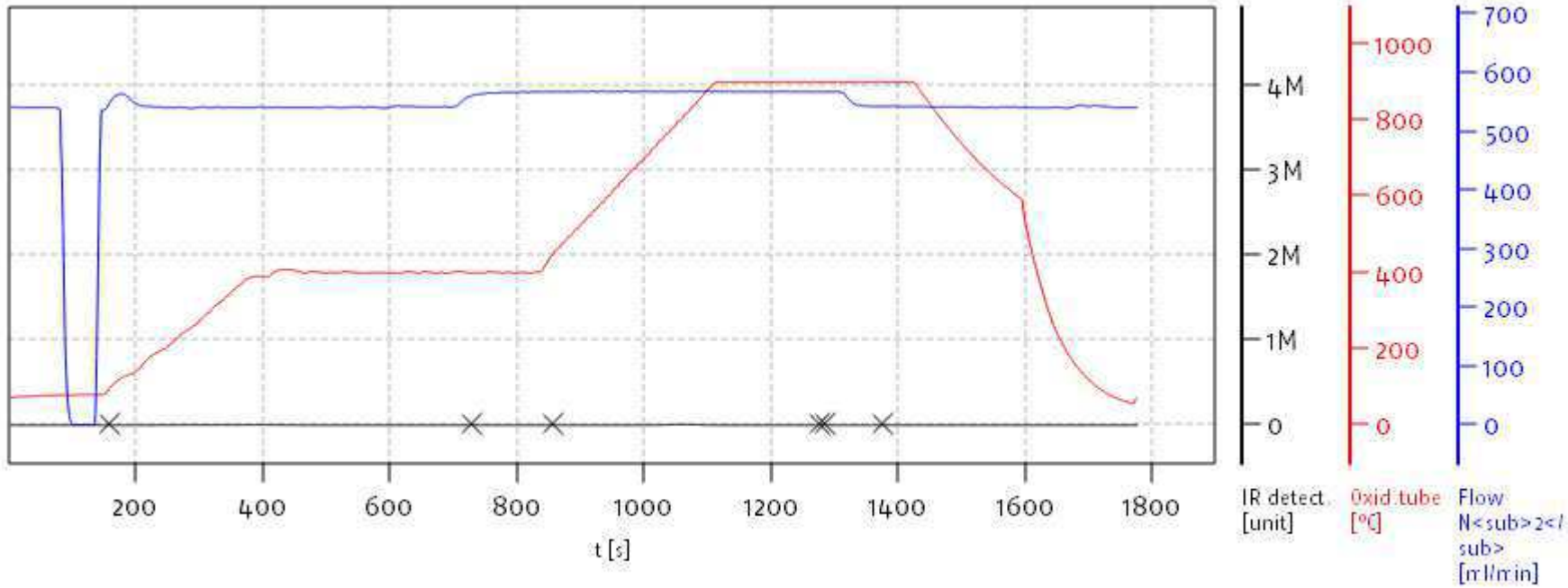
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
4	4	SEQ-CAL2	200.00	0.0049	1.00	CARBON	4/26/2022 1:00 PM	0.023	0.015	0.038	bl,C2u	23 296	19 107	47	1.0000	0.8936



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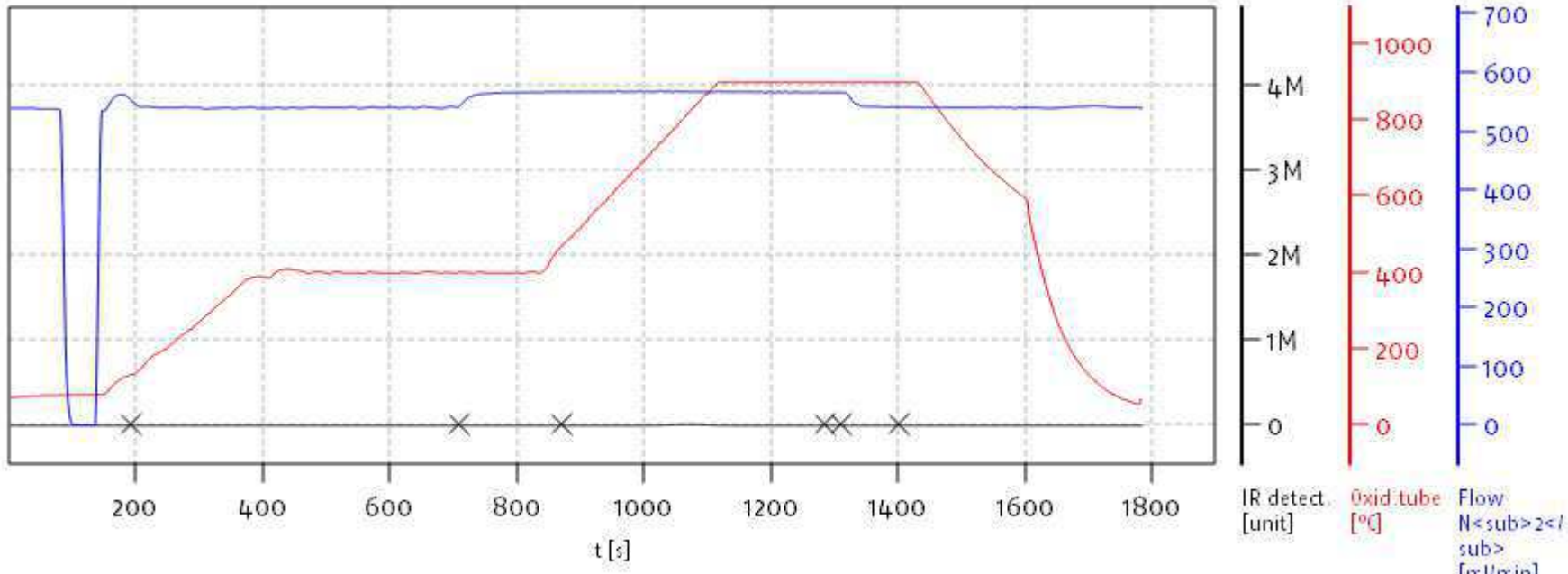
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
5	5	SEQ-CAL3	200.00	0.0071	1.00	CARBON	4/26/2022 1:30 PM	0.006	0.022	0.028	bl,C1u,C2u	2 319	27 530	170	1.0000	0.9343



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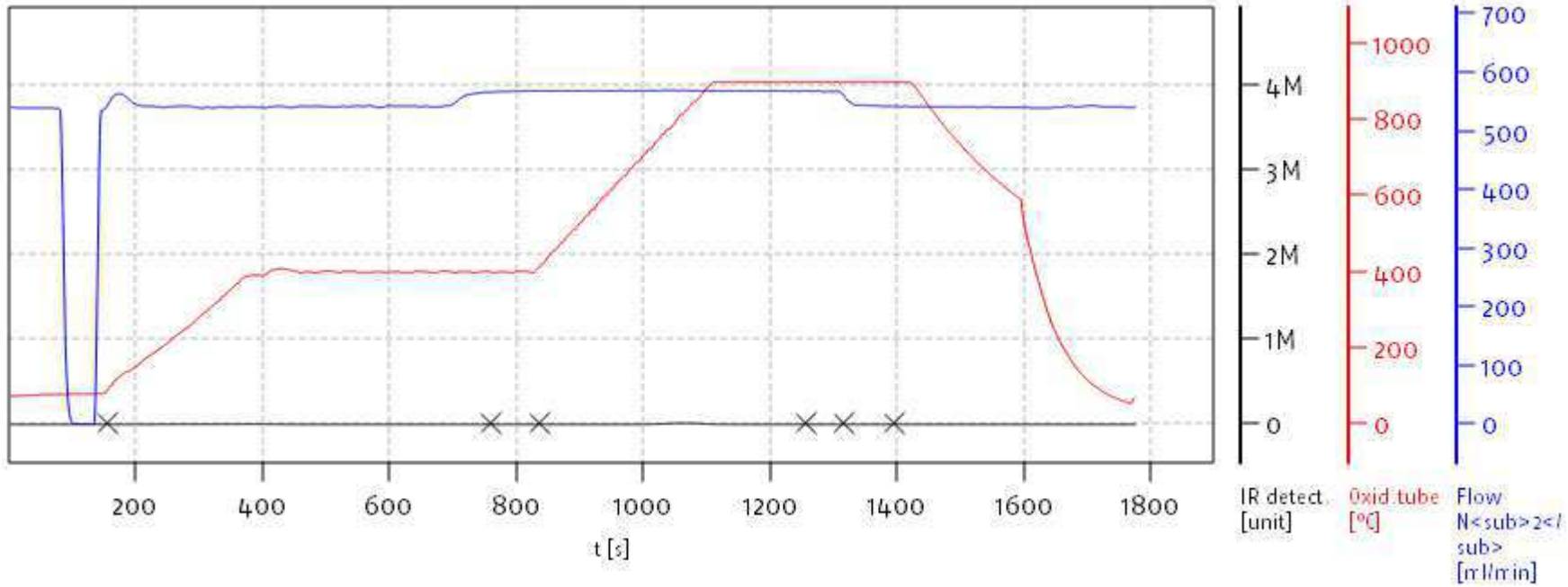
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
6	6	SEQ-CAL4	200.00	0.0098	1.00	CARBON	4/26/2022 2:00 PM	0.020	0.030	0.050	bl,C2u	19 746	38 017	109	1.0000	0.9461



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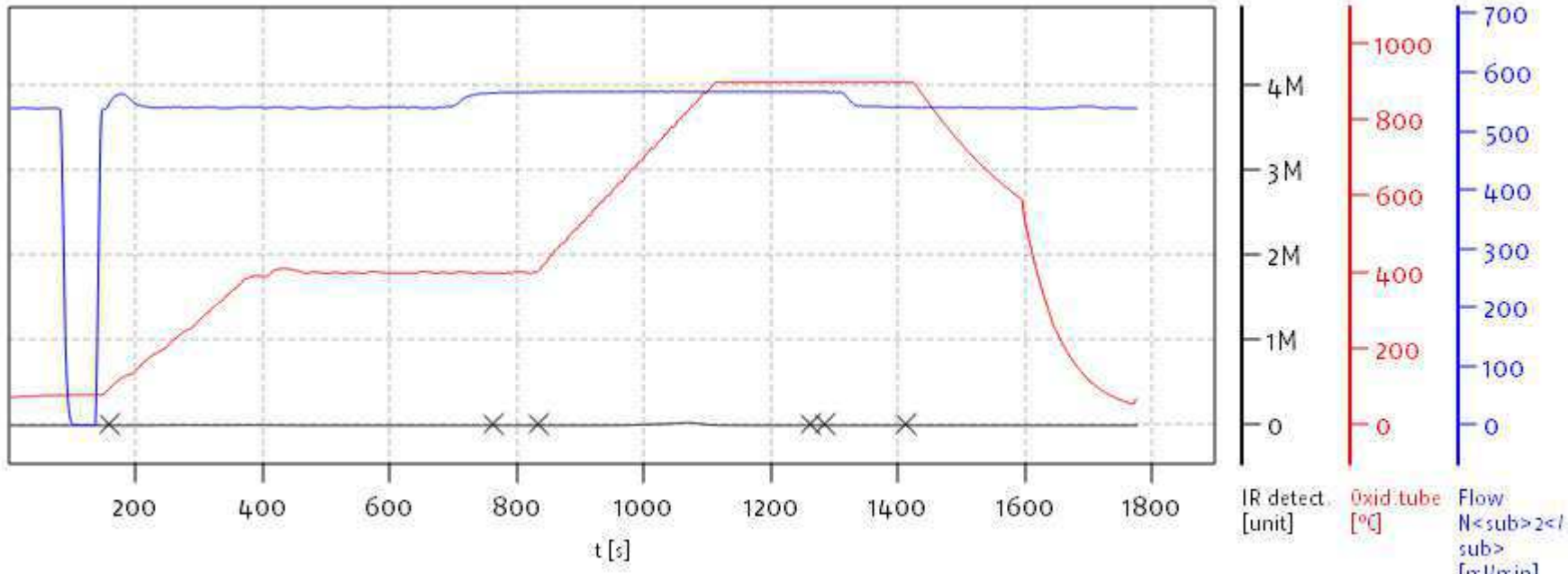
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
7	7	SEQ-CAL5	200.00	0.0148	1.00	CARBON	4/26/2022 2:30 PM	0.021	0.045	0.066	bl,C2u	20 951	92 945	236	1.0000	0.5975



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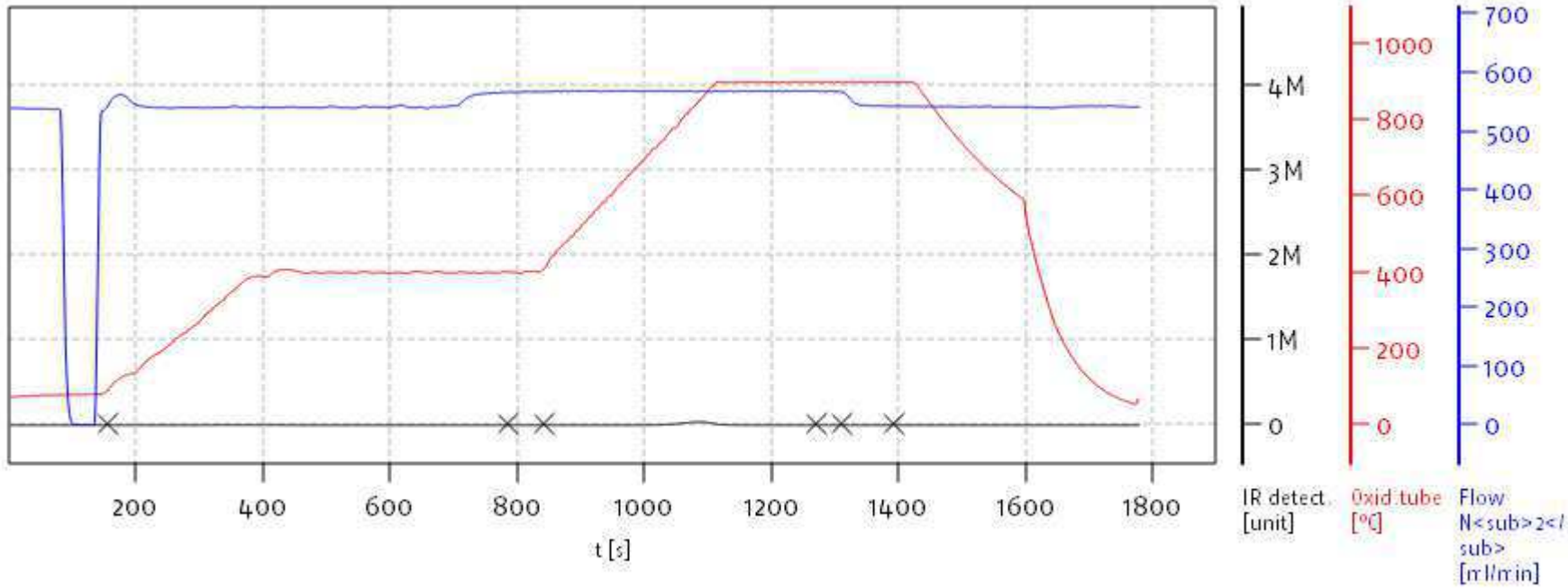
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
8	8	SEQ-CAL6	200.00	0.0196	1.00	CARBON	4/26/2022 3:00 PM	0.012	0.061	0.073	bl,C2u	10 118	82 297	59	1.0000	0.9144



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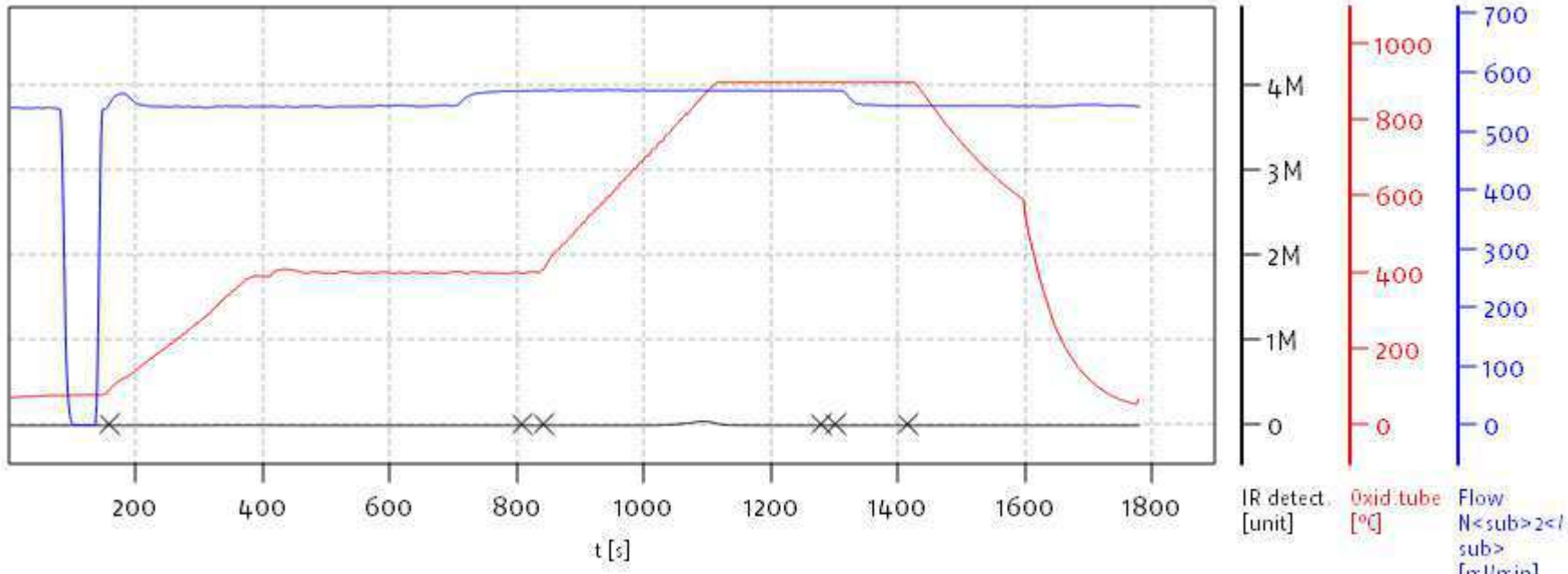
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
9	9	SEQ-CAL7	200.00	0.0247	1.00	CARBON	4/26/2022 3:30 PM	0.013	0.075	0.088	bl,C2u	10 555	101 530	292	1.0000	0.9173



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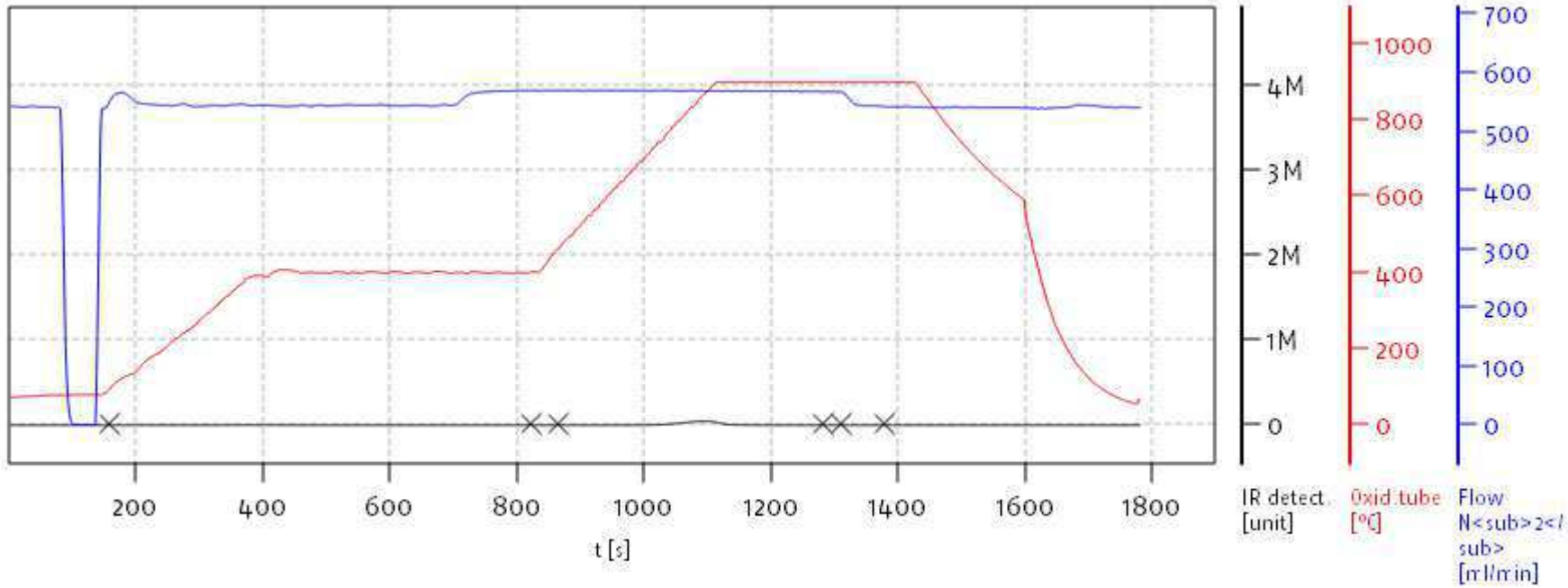
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
10	10	SEQ-CAL8	200.00	0.0298	1.00	CARBON	4/26/2022 4:00 PM	0.009	0.091	0.100	bl,C1u,C2u	6 668	120 822	116	1.0000	0.9312



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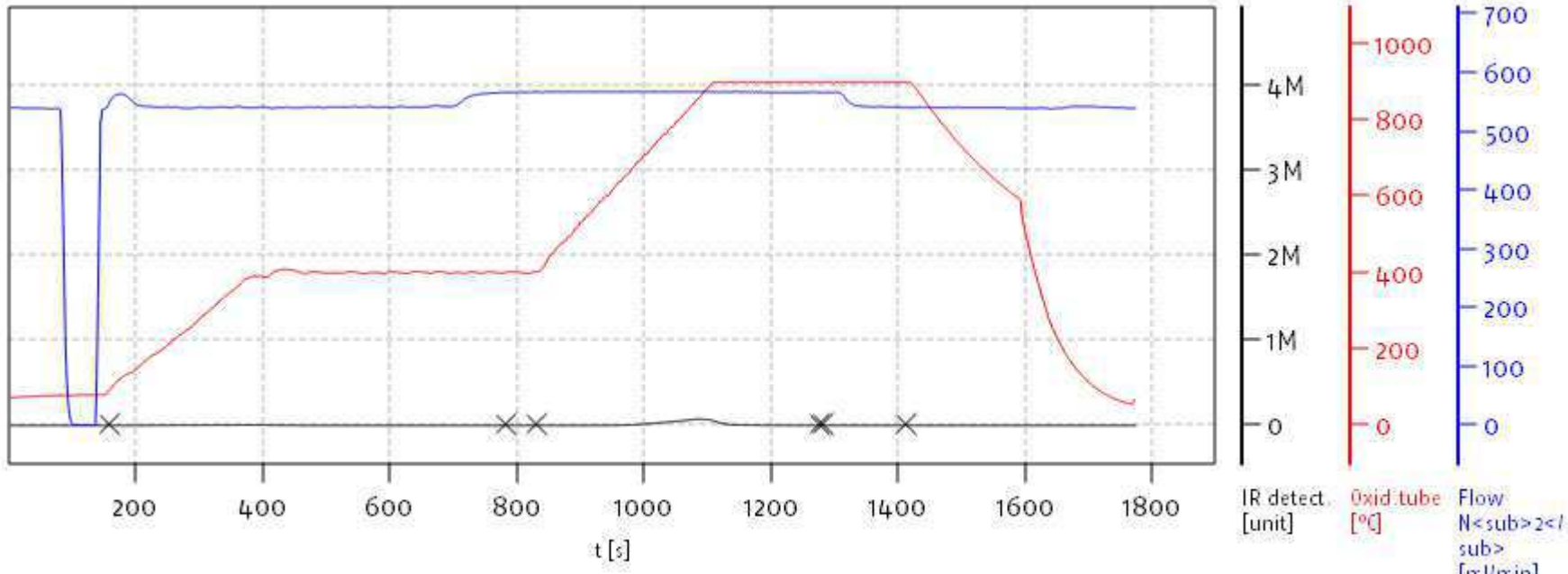
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
11	11	SEQ-CAL9	200.00	0.0402	1.00	CARBON	4/26/2022 4:30 PM	0.031	0.120	0.151	bl,C2u	32 999	260 234	1 044	1.0000	0.5792



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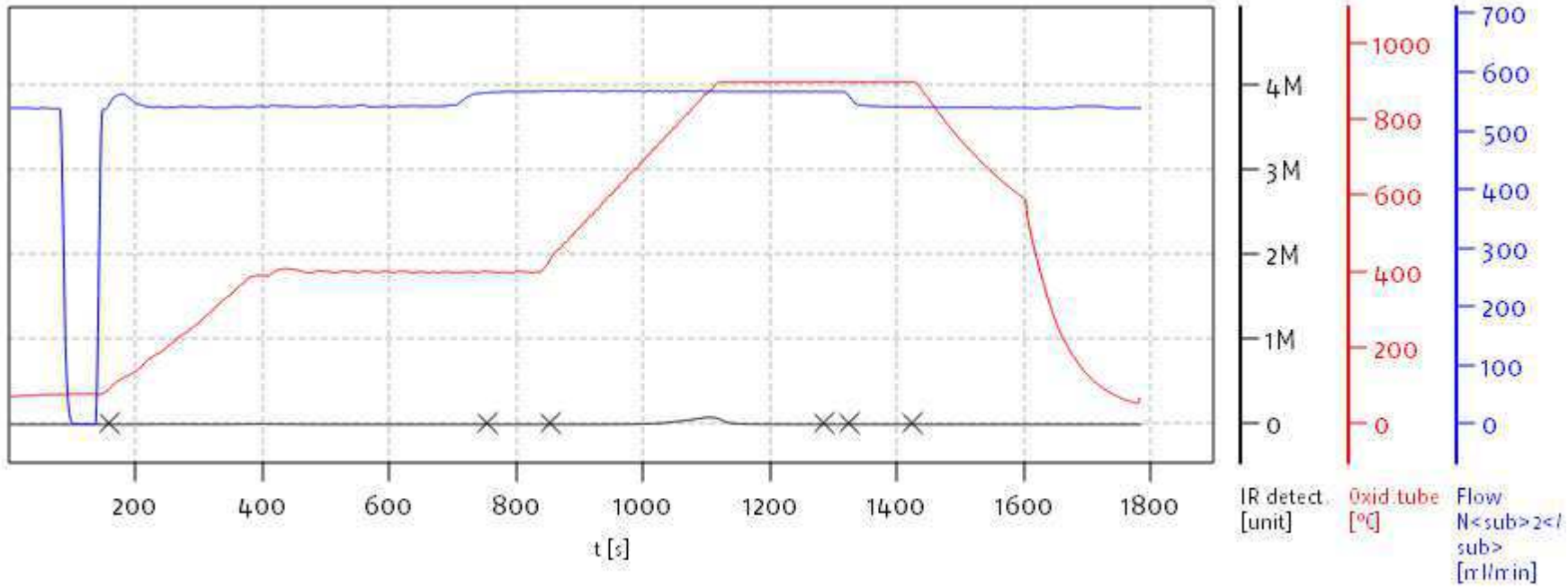
Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
12	12	SEQ-CALA	200.00	0.0500	1.00	CARBON	4/26/2022 5:00 PM	0.021	0.151	0.172	bl,C2u	20 147	233 779	913	1.0000	0.8099



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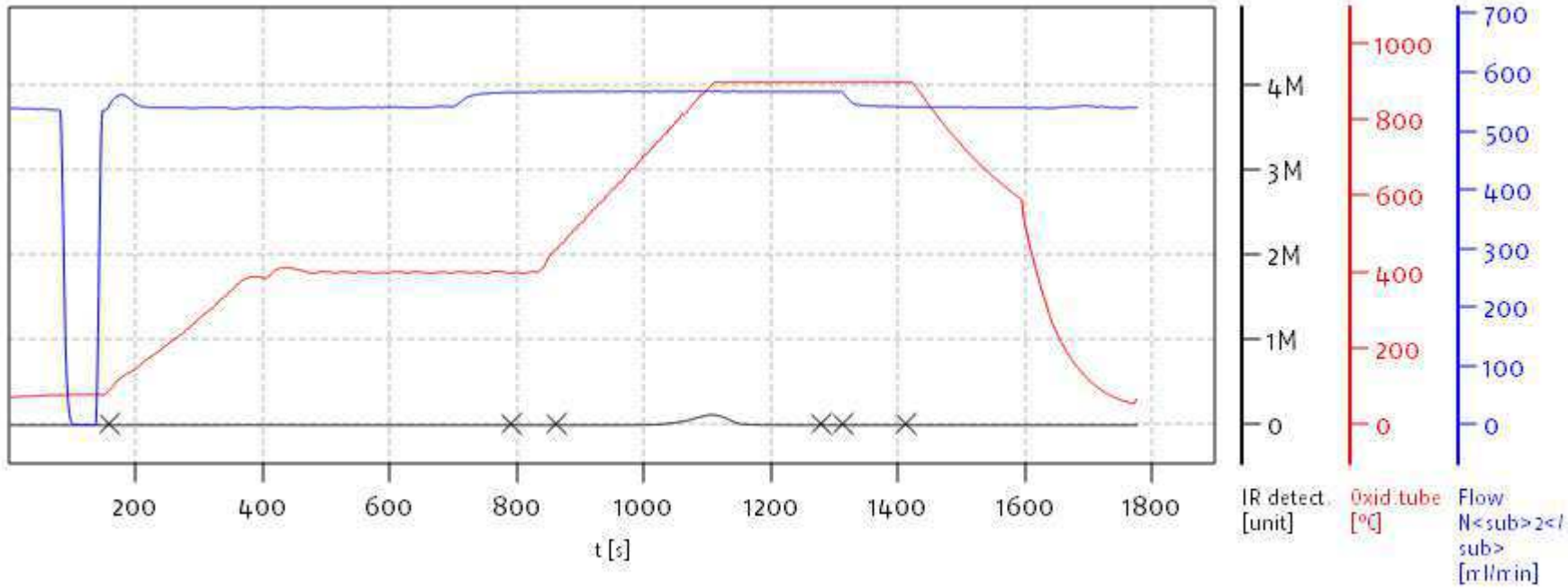
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
13	13	SEQ-CALB	200.00	0.0040	1.00	CARBON	4/26/2022 5:30 PM	0.010	0.258	0.268	bl,C1u,C2u	7 070	323 151	663	1.0000	1.0048



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Soli TOC Cube, Carbon
Balance: BAL3
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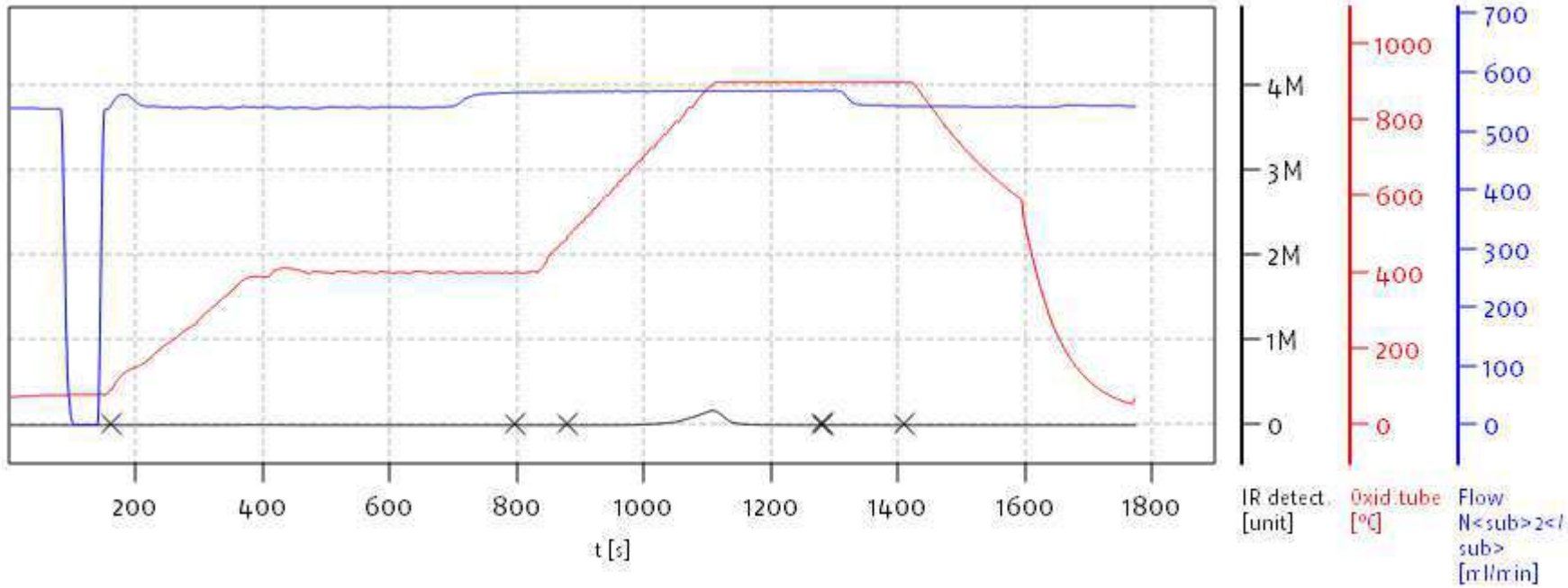
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
14	14	SEQ-CALC	200.00	0.0048	1.00	CARBON	4/26/2022 6:00 PM	0.015	0.324	0.339	bl,C2u	13 785	411 879	575	1.0000	0.9917



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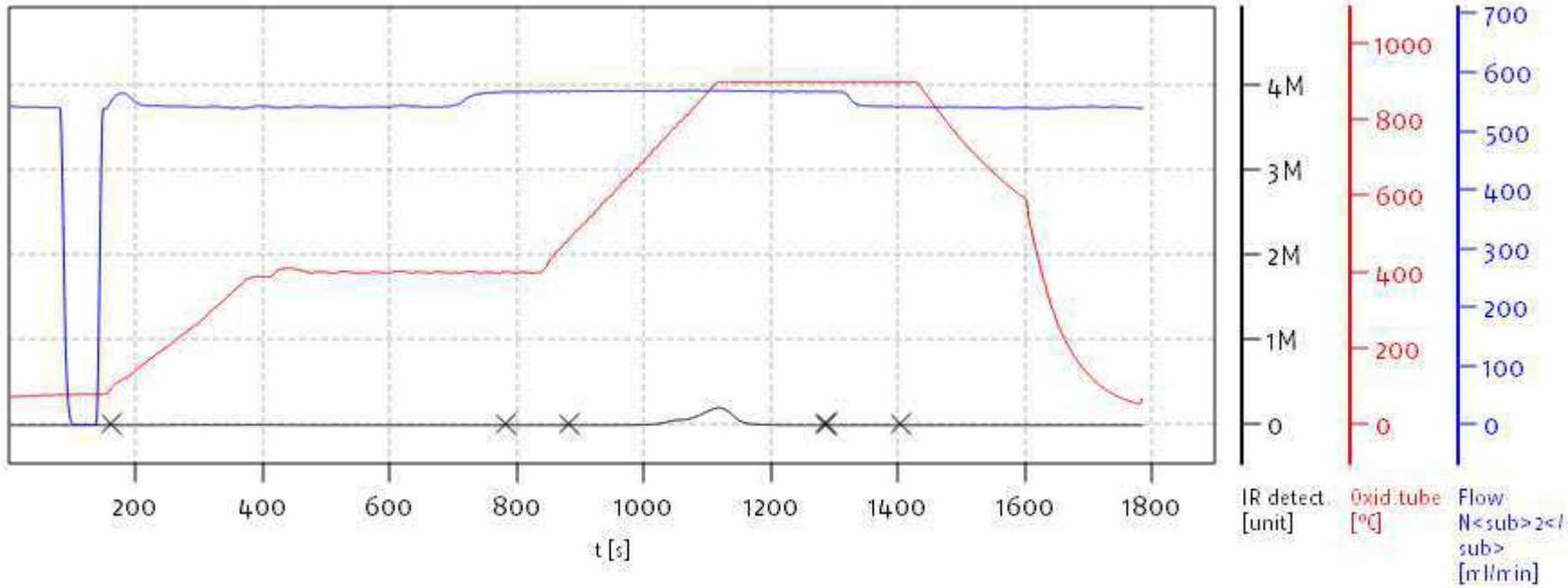
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
15	15	SEQ-CALD	200.00	0.0069	1.00	CARBON	4/26/2022 6:30 PM	0.019	0.444	0.463	bl,C2u	18 465	553 540	263	1.0000	1.0129



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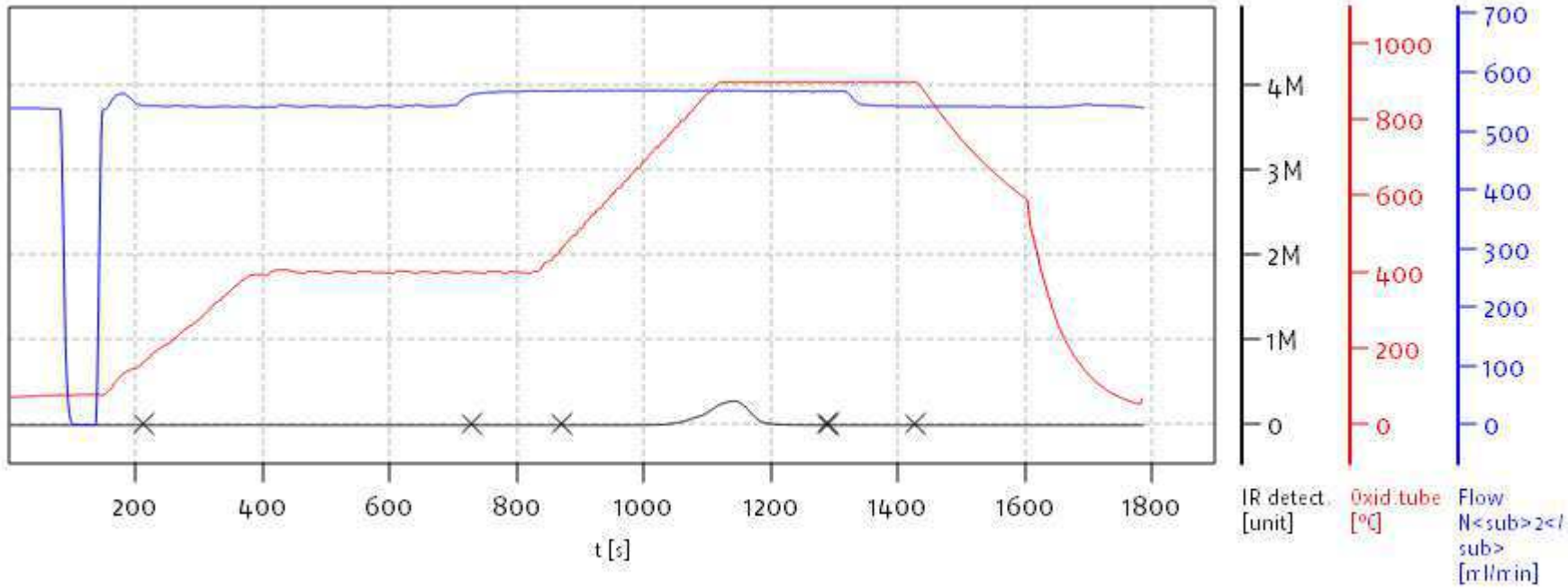
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
16	16	SEQ-CALE	200.00	0.0101	1.00	CARBON	4/26/2022 7:00 PM	0.009	0.600	0.609	bl,C1u,C2u	5 485	839 878	536	1.0000	0.9036



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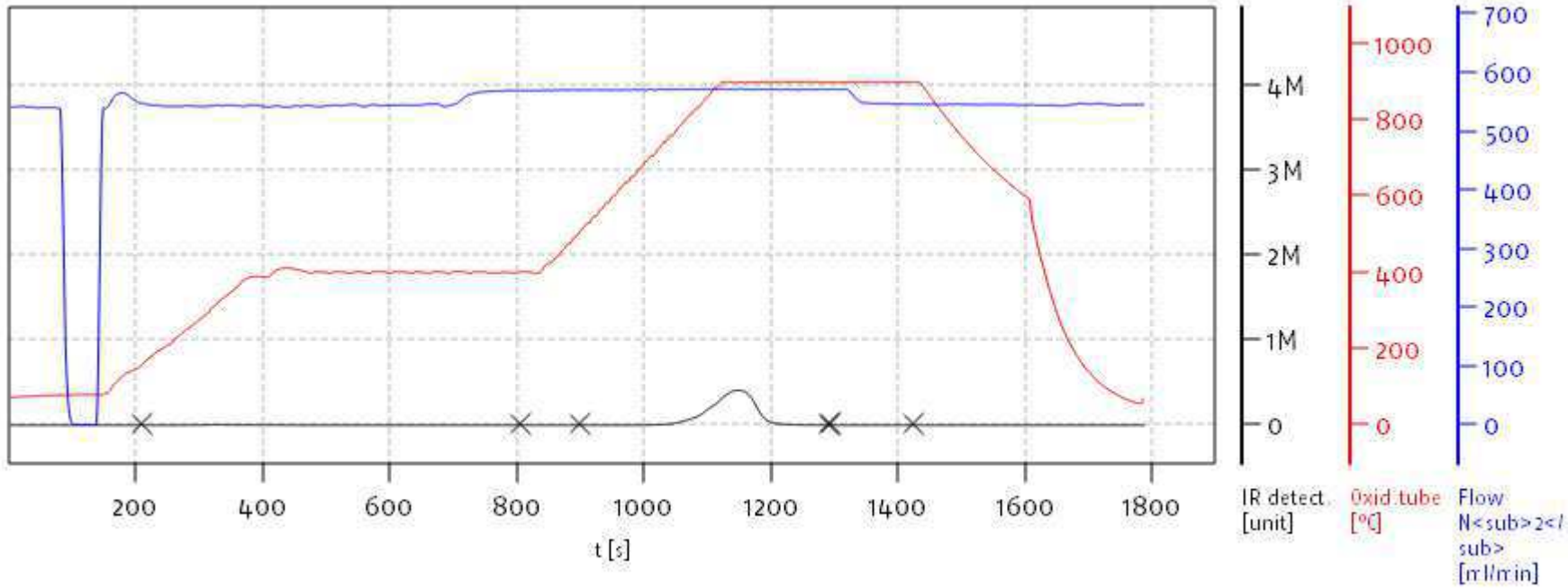
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
17	17	SEQ-CALF	200.00	0.0149	1.00	CARBON	4/26/2022 7:31 PM	0.019	0.906	0.925	bl,C2u	17 439	1 236 200	814	1.0000	0.9279



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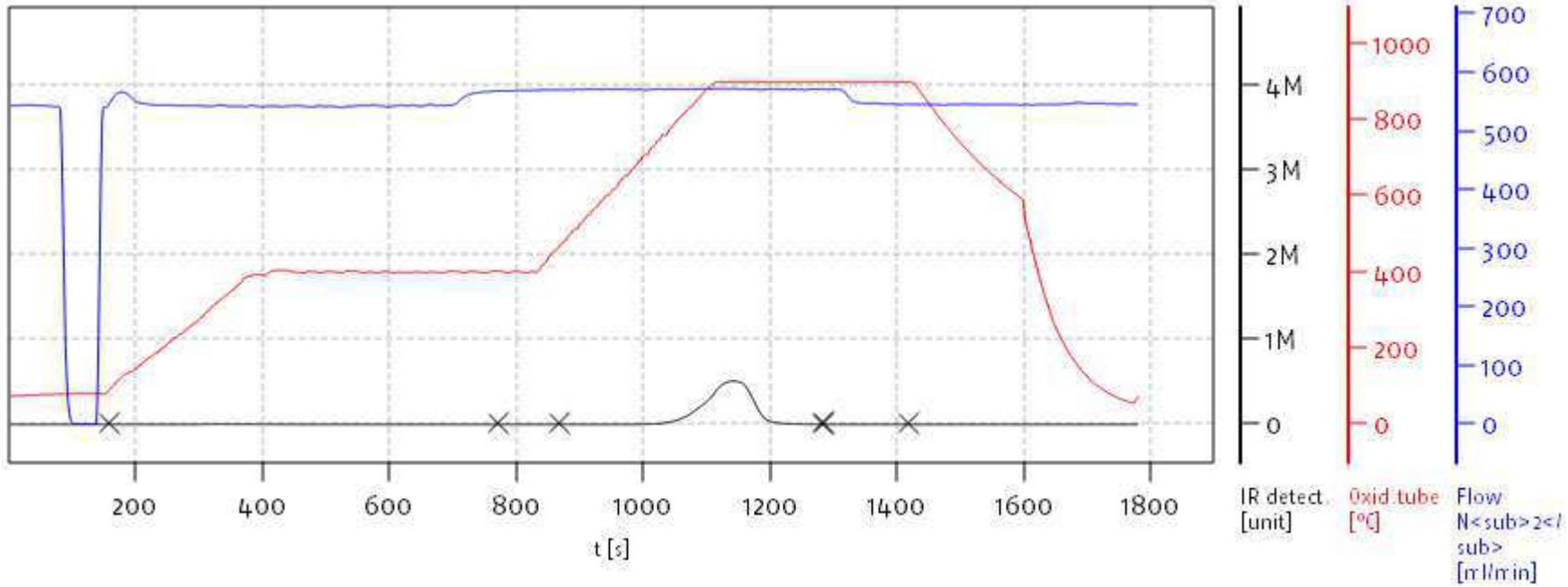
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
18	18	SEQ-CALG	200.00	0.0198	1.00	CARBON	4/26/2022 8:01 PM	0.015	1.206	1.221	bl,C2u	12 557	1 639 190	1 295	1.0000	0.9320



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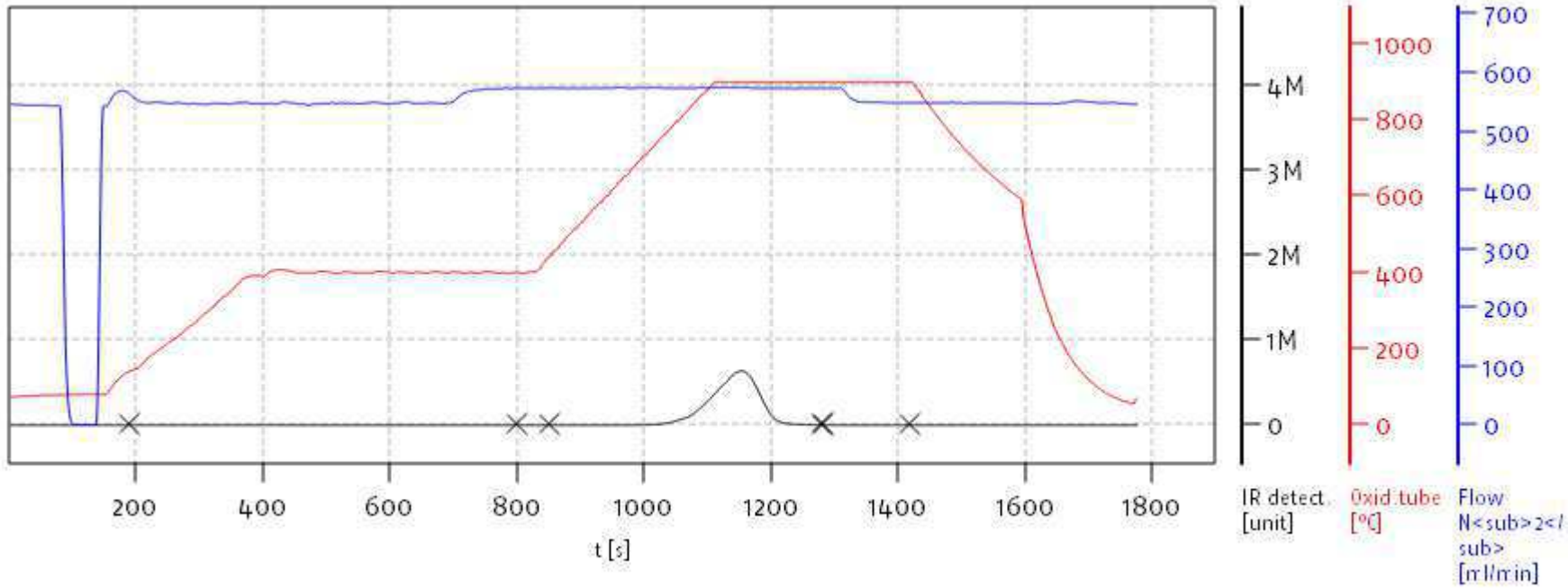
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
19	19	SEQ-CALH	200.00	0.0250	1.00	CARBON	4/26/2022 8:31 PM	0.009	1.524	1.533	bl,C1u,C2u	4 029	2 063 890	2 225	1.0000	0.9357



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Balance: BAL3
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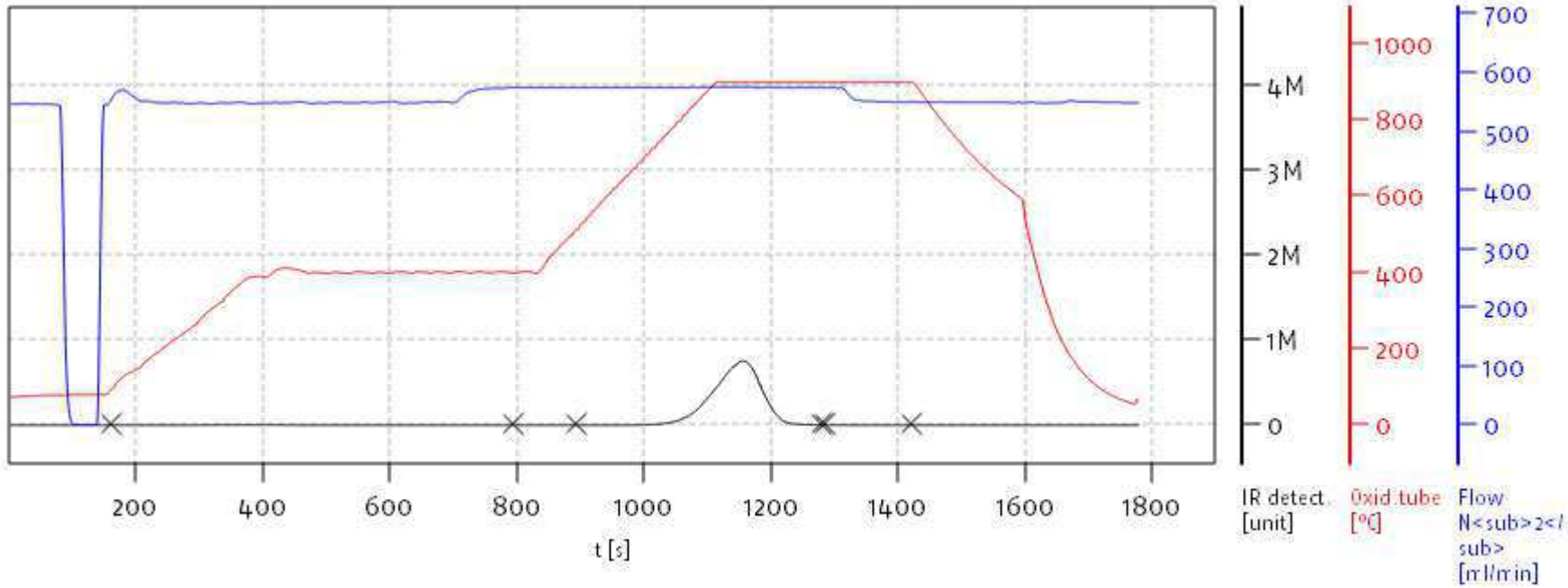
	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
20	20	SEQ-CALI	200.00	0.0303	1.00	CARBON	4/26/2022 9:01 PM	0.017	1.800	1.817	bl,C2u	13 926	2 495 900	2 903	1.0000	0.9140



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Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

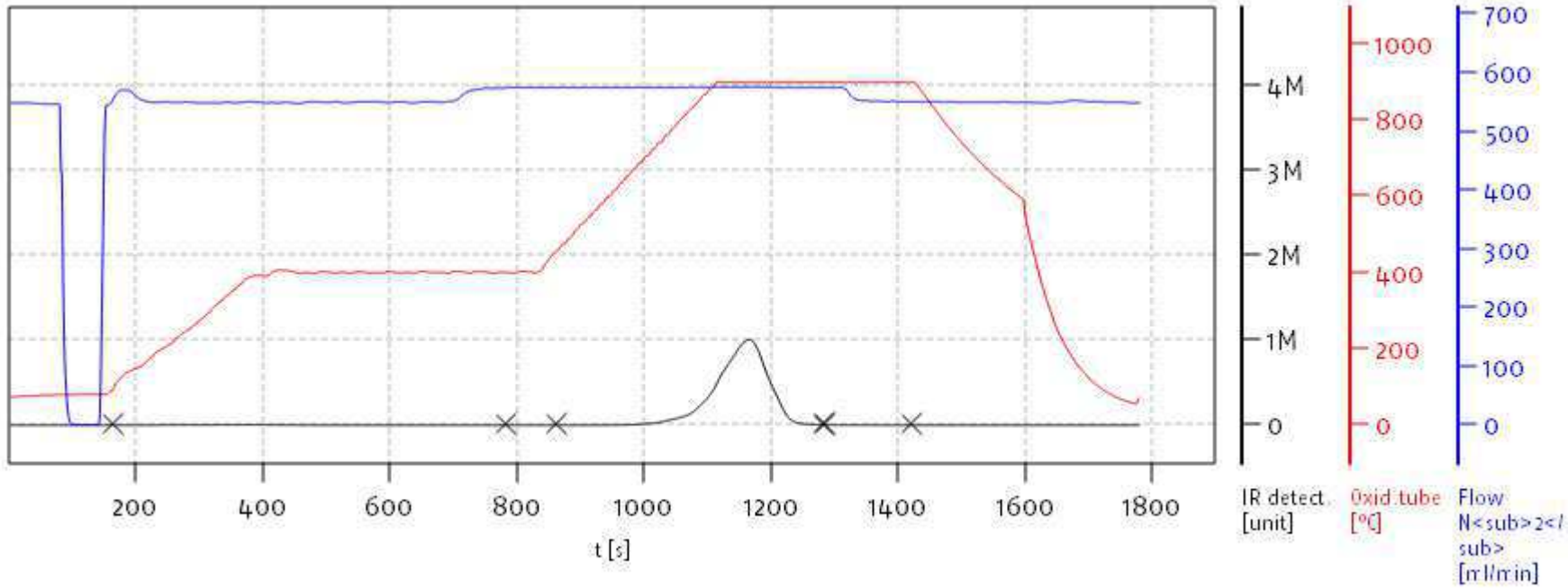
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
21	21	SEQ-CALJ	200.00	0.0415	1.00	CARBON	4/26/2022 9:31 PM	0.031	2.400	2.431	bl,C2u	28 786	3 482 530	5 351	1.0000	0.8737



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

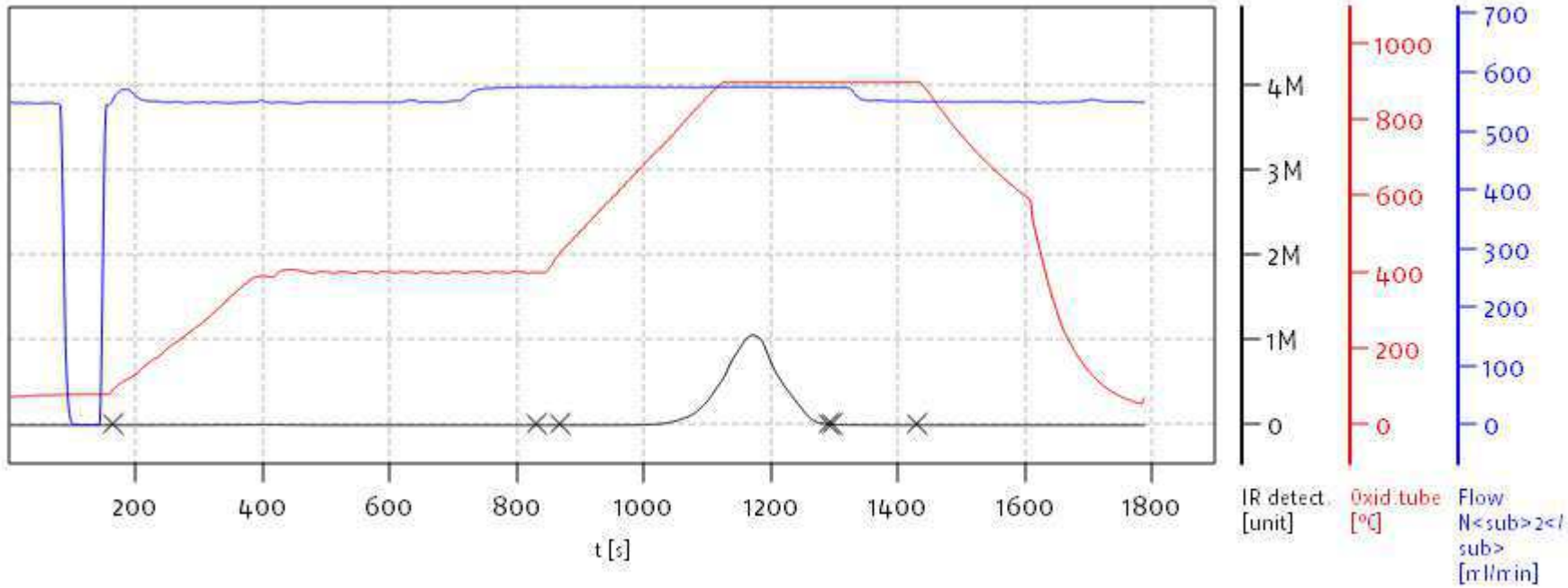
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
22	22	SEQ-CALK	200.00	0.0497	1.00	CARBON	4/26/2022 10:01 PM	0.031	3.012	3.043	bl	23 732	4 105 830	9 736	1.0000	0.9301



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Access: soliTOC superuser

Date: Wed Apr 27 11:07:12 2022

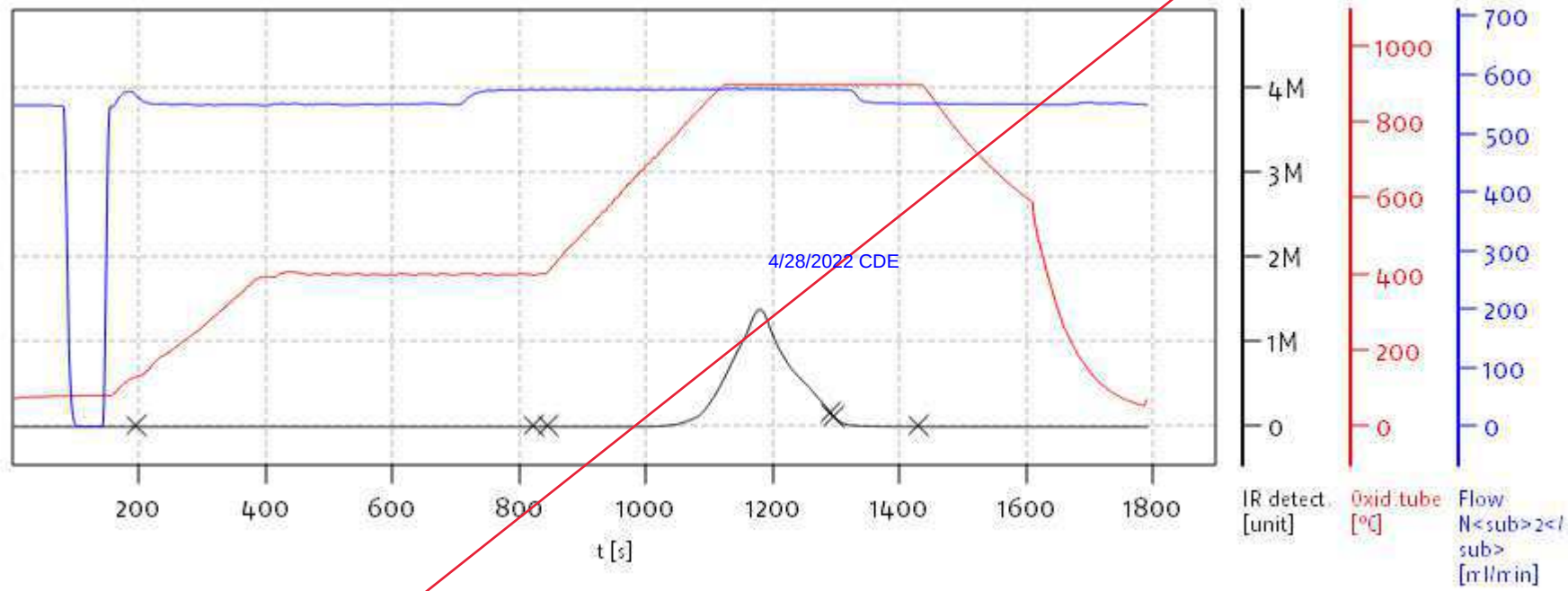
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/26/2022 10:31 PM	0.005	3.805	3.810	bl,C1u	3 605	5 648 620	71 970	1.0000	0.9443



Name:

Access: soliTOC superuser

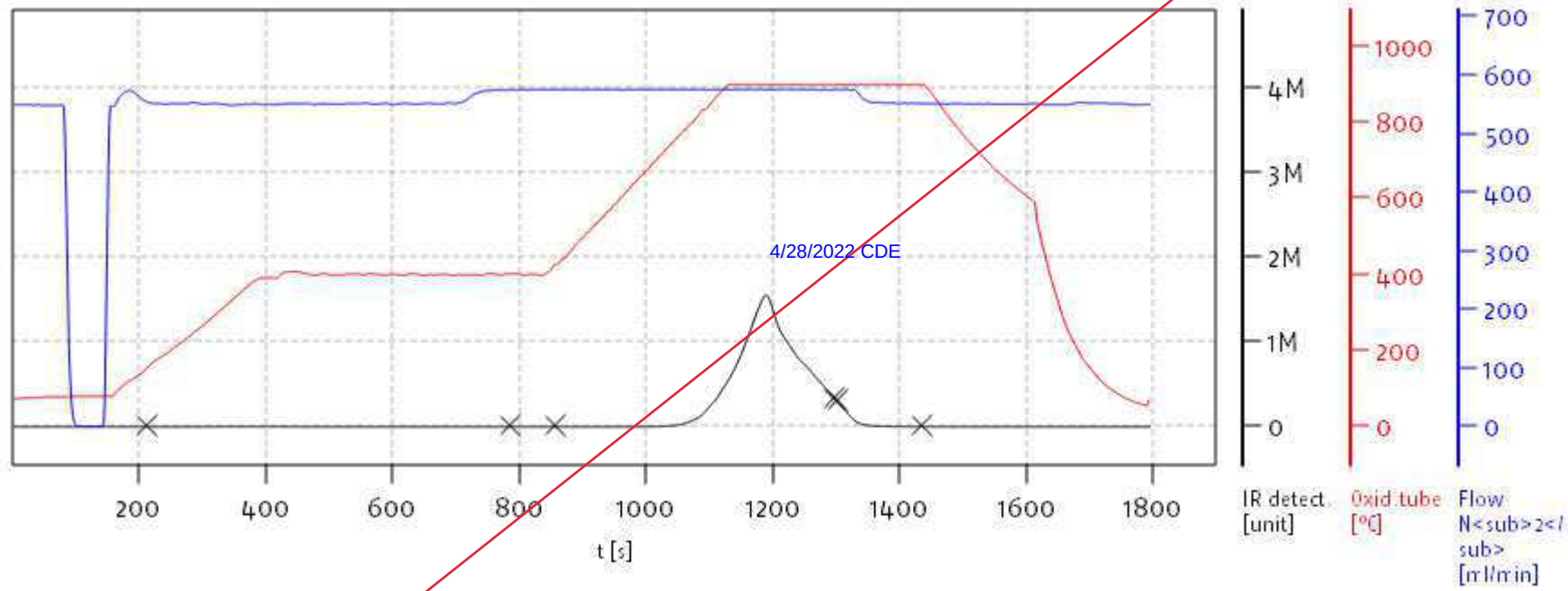
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/26/2022 11:02 PM	0.010	4.637	4.647	bl	10 023	6 397 530	228 171	1.0000	0.9539



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Date: Wed Apr 27 11:07:12 2022

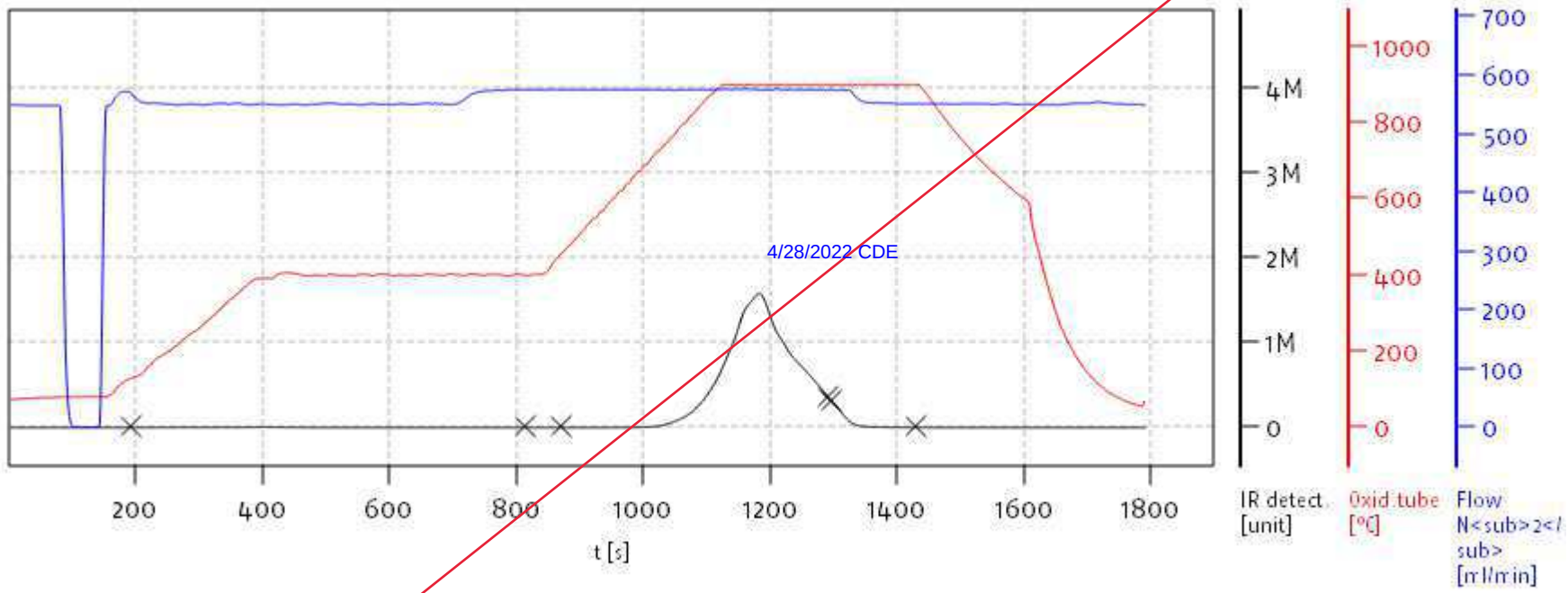
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/26/2022 11:32 PM	0.020	5.219	5.239	bl	23 354	7 186 580	239 986	1.0000	0.9540



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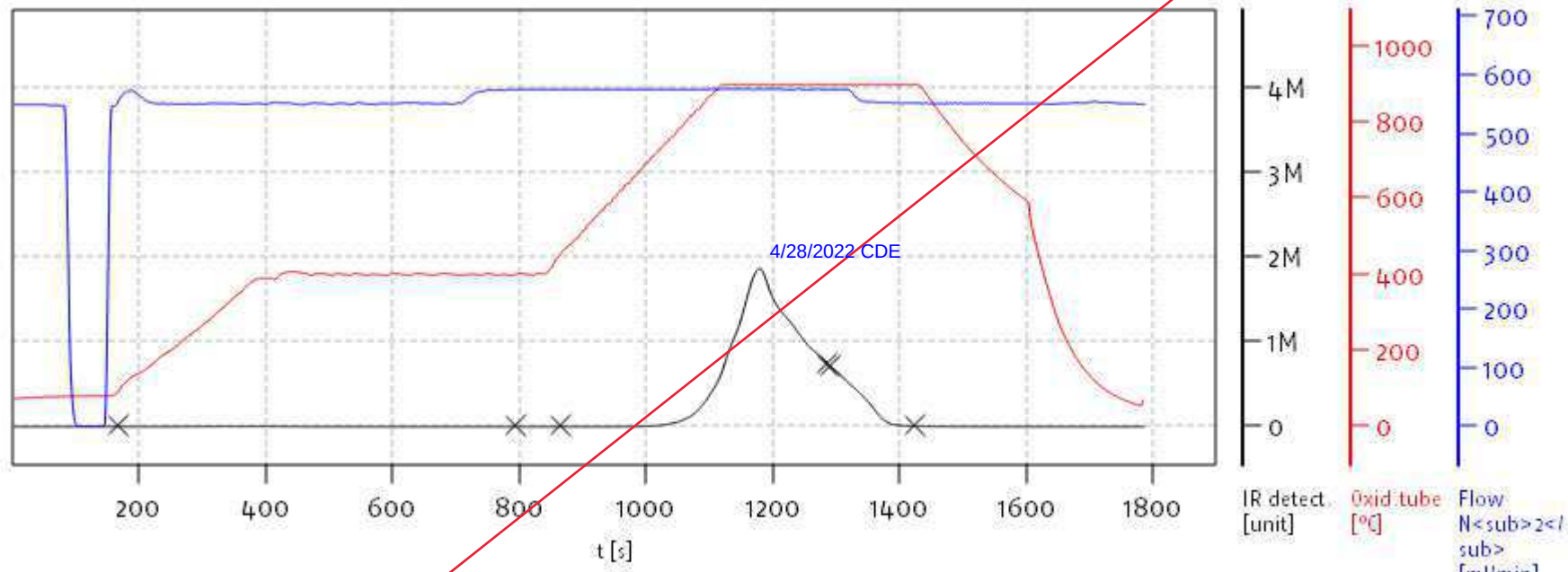
soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 12:02 AM	0.019	7.915	7.934	bl,C3o	21 248	8 544 610	1 334 580	1.0000	1.0714



Name:

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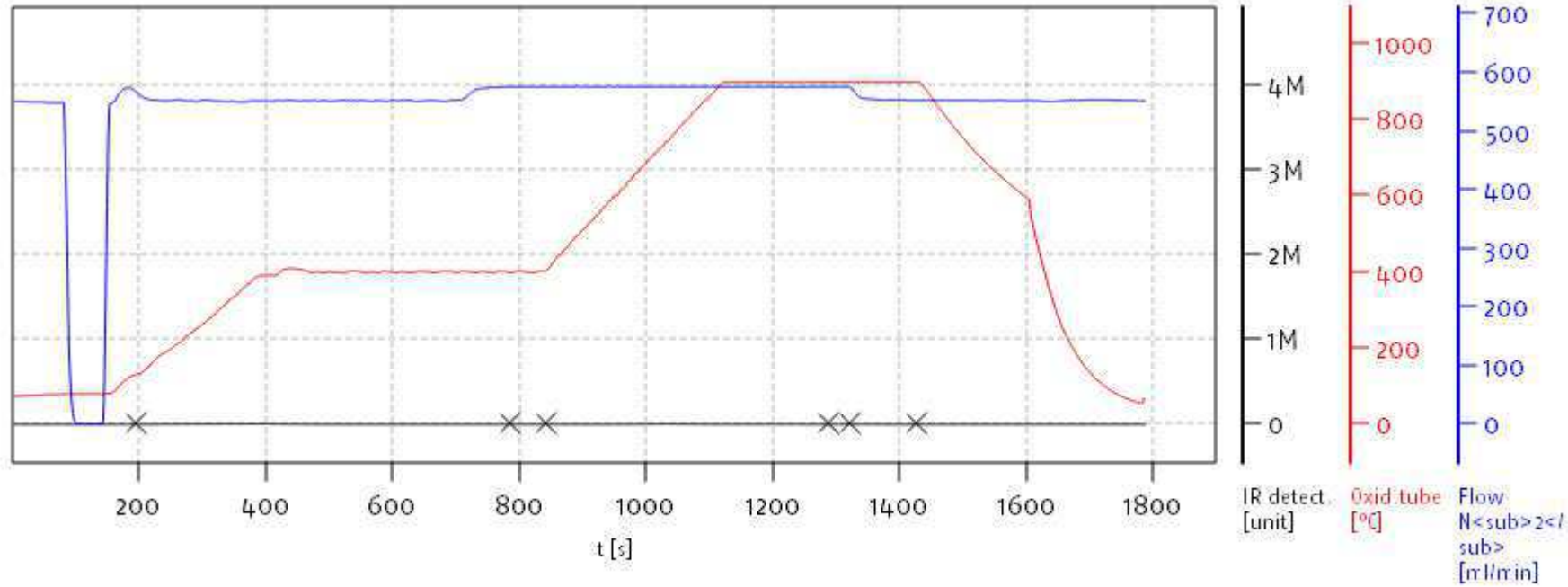
Date: Wed Apr 27 11:07:12 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
27	27	BLANK	1.00		1.00	CARBON	4/27/2022 12:32 AM	0.000	0.000	0.000	bl	29 766	19 596	1 205	1.0000	0.9007



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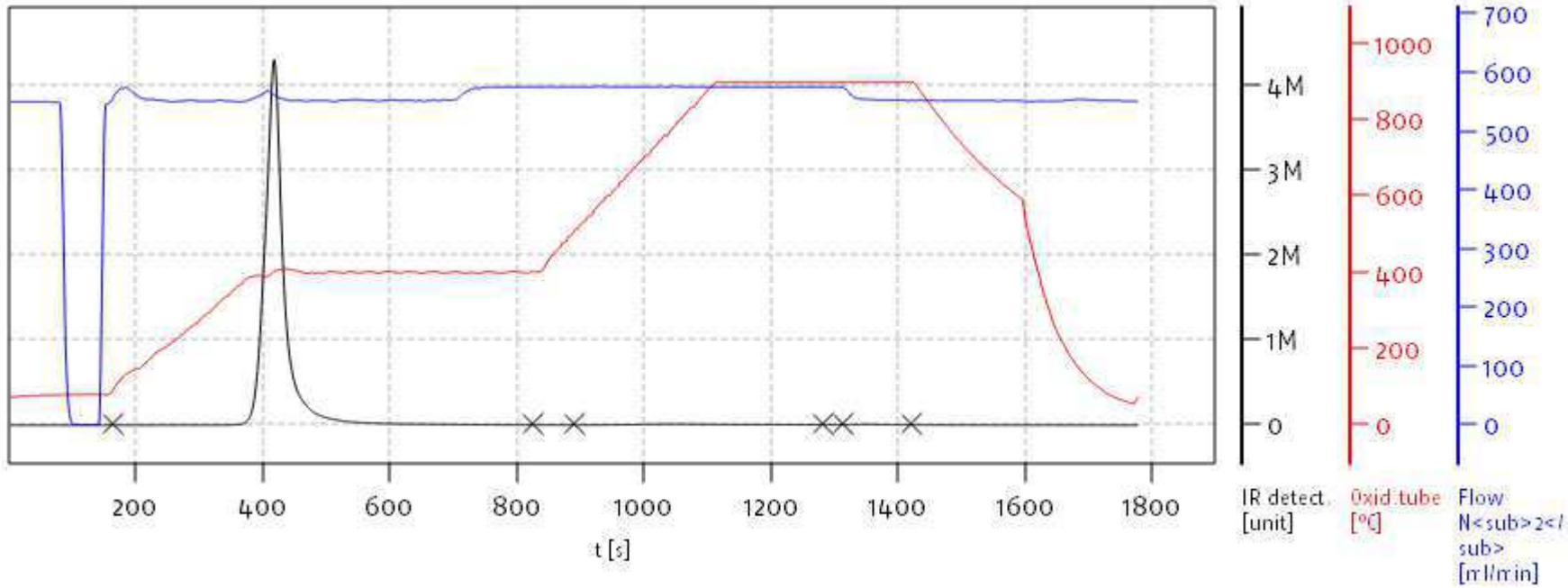
Serial No: 0300.181017
Mode CCC

elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
28	28	Dfactor	19.00		1.00	CARBON	4/27/2022 1:02 AM	44.678	0.893	45.571	bl	5 588 680	104 999	25 384	0.9581	1.0000



Name:

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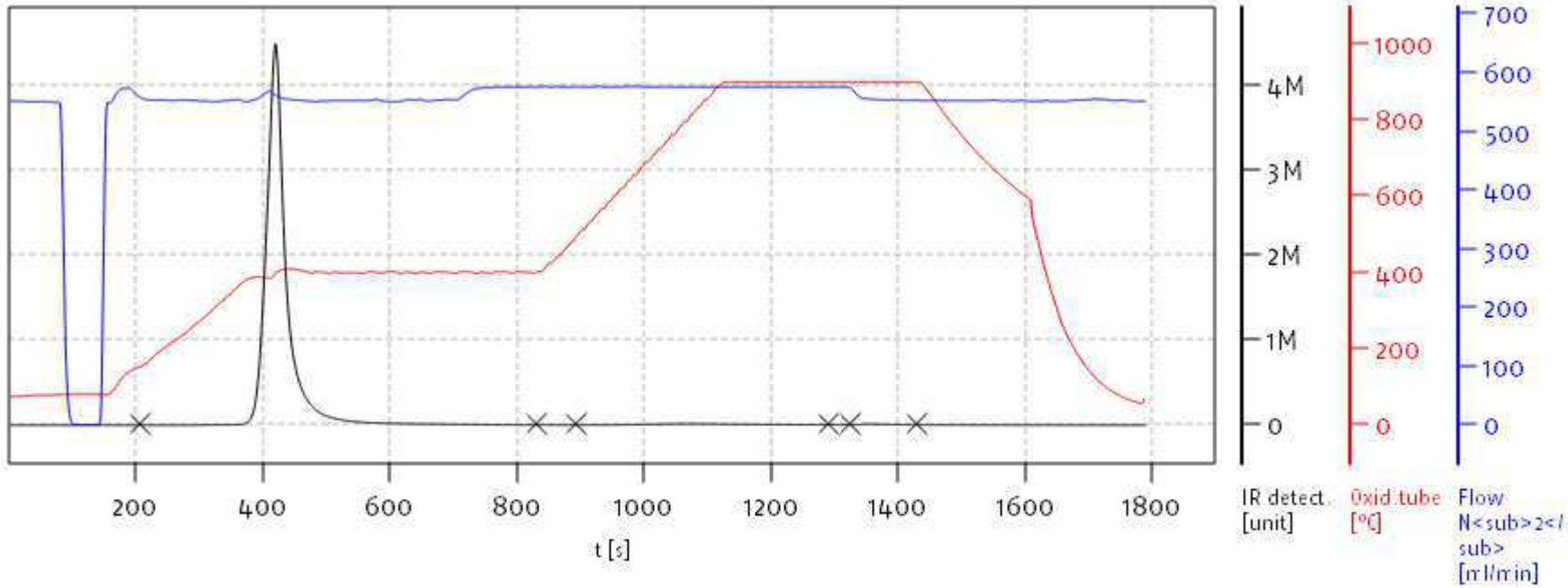
EXCELLENCE IN ELEMENTS

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
29	29	Dfactor	20.80		1.00	CARBON	4/27/2022 1:32 AM	44.694	0.937	45.631	bl	6 076 750	120 961	30 224	0.9647	1.0000



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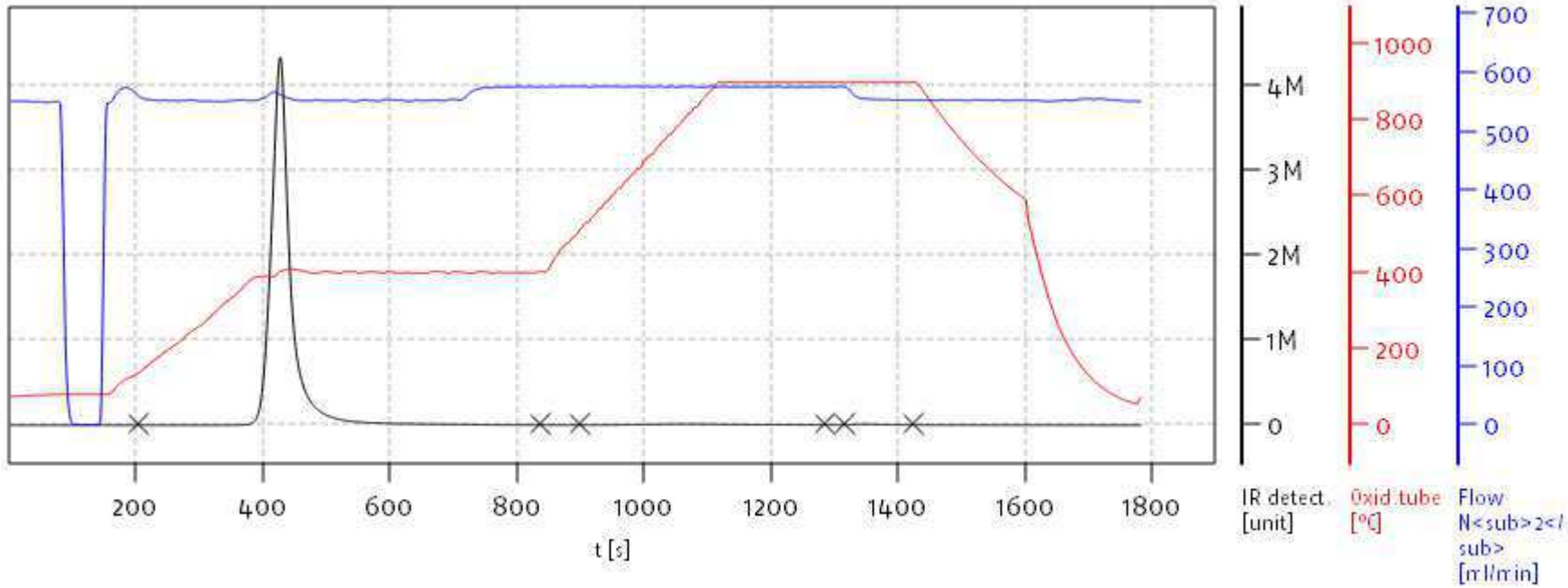
Document: 042622 DOE CALIBRATION from: 4/27/2022 11:05 AM

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
30	30	SEQ-ICV1	19.40		1.00	CARBON	4/27/2022 2:03 AM	44.964	0.742	45.706	bl	5 722 450	98 735	27 054	0.9614	0.9007



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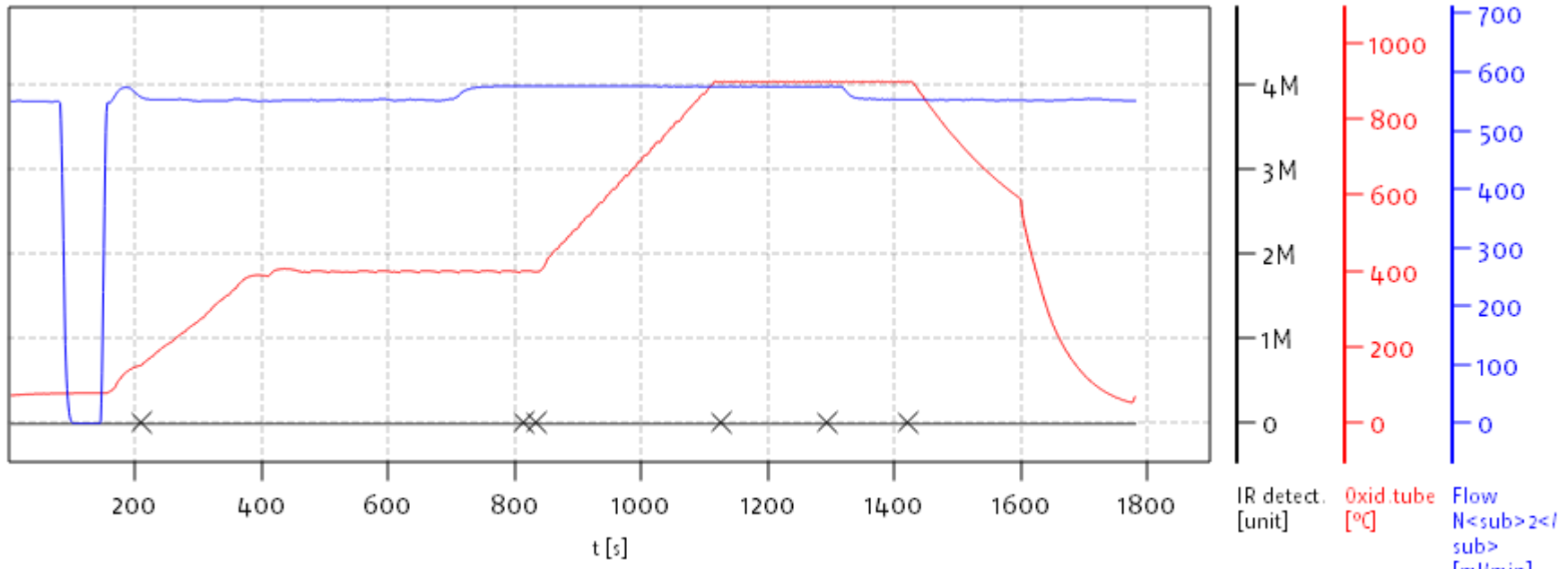
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
31	31	SEQ-ICB1	501.10		1.00	CARBON	4/27/2022 2:33 AM	0.002	0.001	0.003	bl,C1u,C3u,C2u	2 158	225	165	0.9614	0.9007



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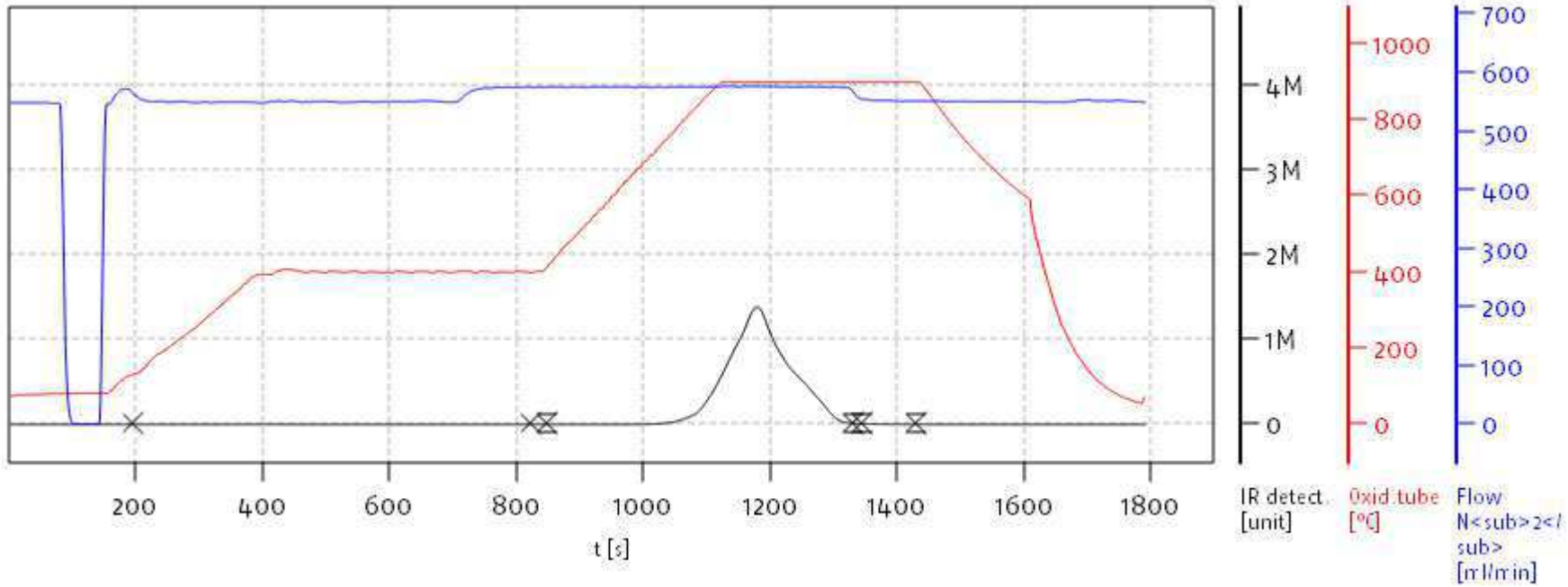
Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
23	23	SEQ-CALL	200.00	0.0698	1.00	CARBON	4/27/2022 11:08 AM	0.005	3.917	3.922	bl,C1u	3 605	**5 260 365**	**0**	1.0000	0.9443



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

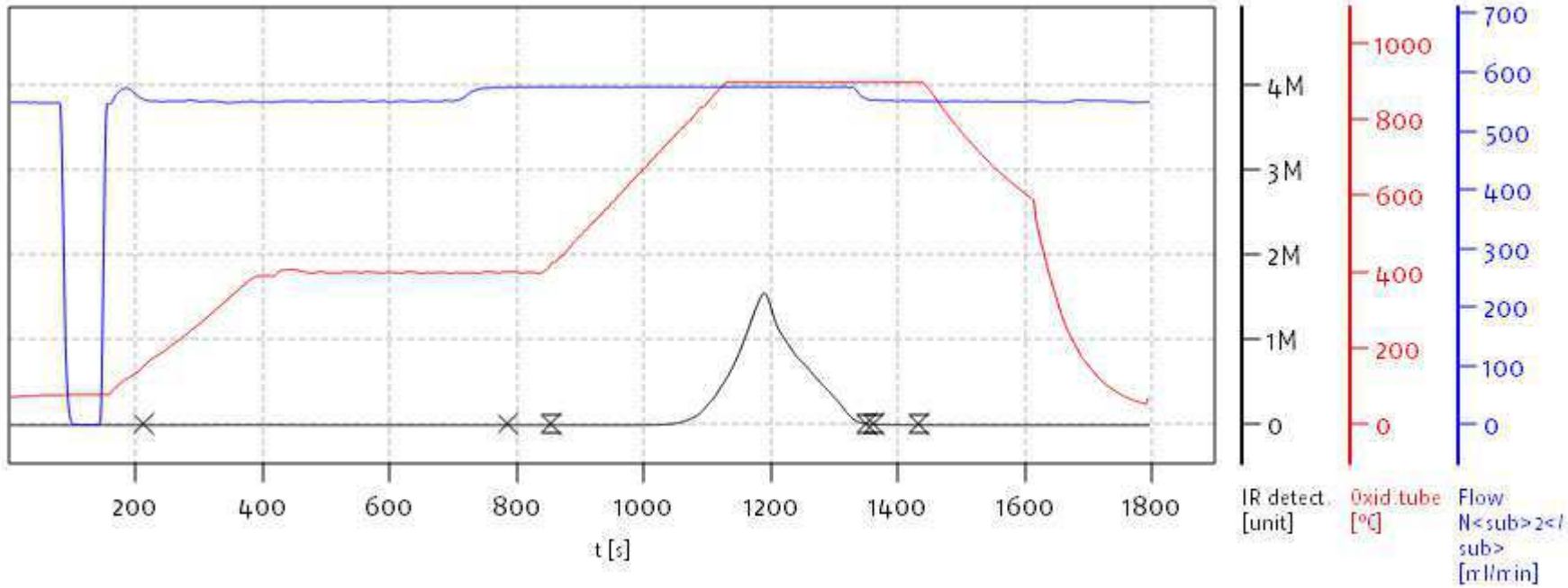
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
24	24	SEQ-CALM	200.00	0.0803	1.00	CARBON	4/27/2022 11:08 AM	0.010	4.637	4.647	bl	10 023	**6 164 833**	**0**	1.0000	0.9539



Name:

Access: soliTOC superuser

Date: Wed Apr 27 11:10:16 2022

soliTOC V2.0.2 (31015f9) 2018-11-19
Serial No: 0300.181017
Mode CCC

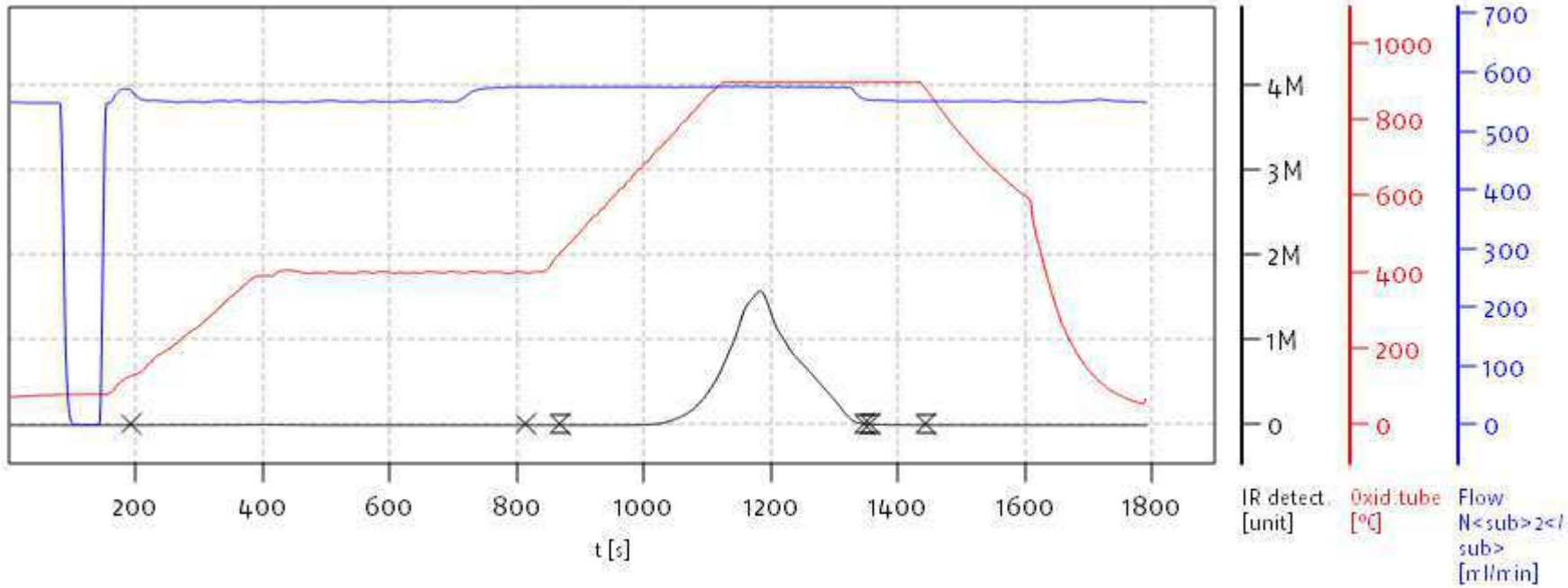
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
25	25	SEQ-CALN	200.00	0.0901	1.00	CARBON	4/27/2022 11:09 AM	0.020	5.219	5.239	bl	23 354	**6 937 833**	**0**	1.0000	0.9540



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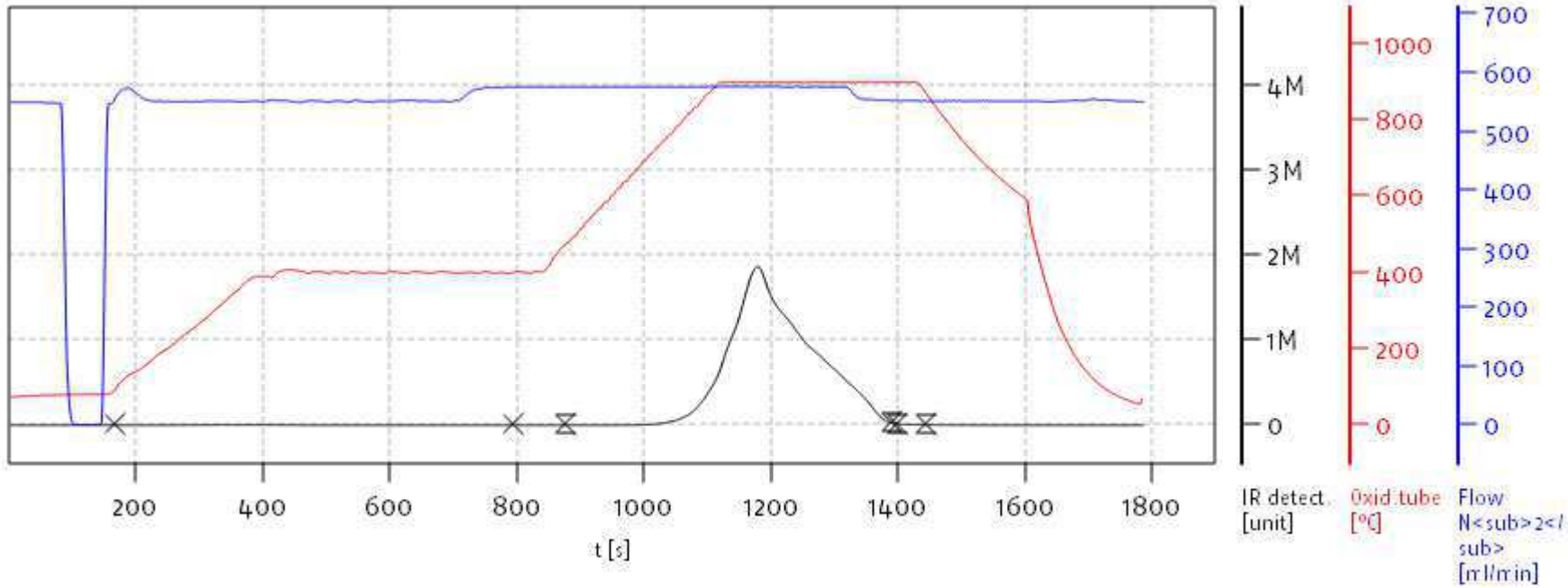
Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Soli TOC Cube, Carbon
Balance: BAL3
Analyst: DOE

Analytical Resources, Incorporated
Analytical Chemists and Consultants

	Pos.	Name	Weight [mg]	Memo	Dilut. Factor	Method	Date Time	TOC [%]	TIC900 [%]	TC [%]	Info	TOC400 Area	TIC900 Area	ROC Area	TOC400 Factor	TIC900 Factor
26	26	SEQ-CALO	200.00	0.1200	1.00	CARBON	4/27/2022 11:09 AM	0.019	7.915	7.934	bl,C3o	21 248	9 370 139	0	1.0000	1.0714



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soliTOC V2.0.2 (31015f9) 2018-11-19
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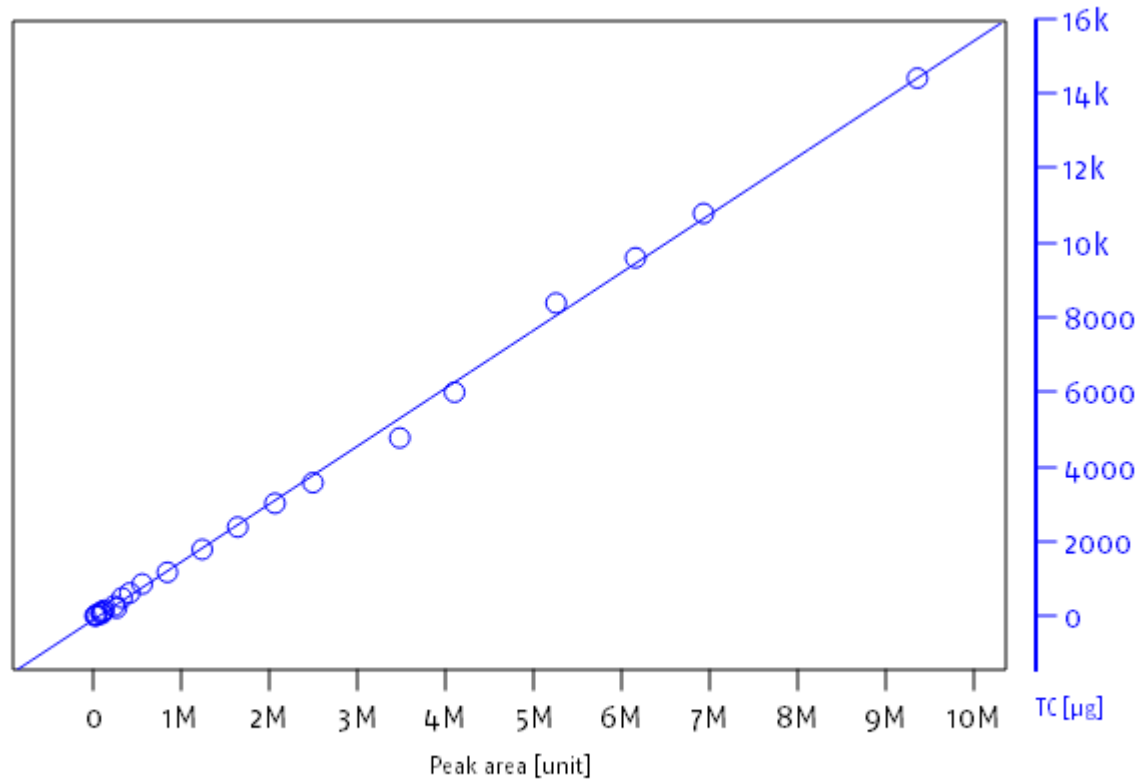
elementar
EXCELLENCE IN ELEMENTS

Document: 042622 DOE CALIBRATION from: --.--.-- (modified)

Calibration parameters TC, Whole range

a	-4.107546e-02
b	+1.548032e-06
c	+0.000000e+00
d	+0.000000e+00
e	+0.000000e+00
r	0.998372
r_old	0.998372
Proc.-SD	166.070255 µg

Calibration graph TC, Whole range



INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKD0371

SDG: 22L0246
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 04/27/22 02:33

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKD0371-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0276

SDG: 22L0246
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 12/21/22 12:59

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0276-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0276-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0311

SDG: 22L0246
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 12/24/22 13:21

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0311-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0311-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	

INSTRUMENT BLANKS
EPA 9060A m

Laboratory: Analytical Resources, LLC
Client: Anchor QEA, LLC
Instrument ID: TOC Cube
Sequence: SKL0336

SDG: 22L0246
Project: AOC4 UR Phase 3
Calibration: FD00070
Date Analyzed: 01/01/23 06:00

Lab Sample ID	Analyte	Found	MDL	MRL	Units	C
SKL0336-CCBE	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBF	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBG	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-ICB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB1	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB2	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB3	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB4	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB5	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB6	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB7	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB8	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCB9	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBA	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBB	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBC	Total Organic Carbon	0.00	0.02	0.02	%	
SKL0336-CCBD	Total Organic Carbon	0.00	0.02	0.02	%	

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKD0371

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKD0371-ICV1	Total Organic Carbon	44.446	43.7	98.3	%	EPA 9060A m
	Total Carbon	44.446	44.1	99.2	%	EPA 9060A m
	Total Inorganic Carbon	0.0000	0.40		%	EPA 9060A m
	% Soot	0.0000	0.004		%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0276

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0276-ICV1	Total Organic Carbon	44.446	44.3	99.7	%	EPA 9060A m
SKL0276-CCV1	Total Organic Carbon	44.446	44.7	101	%	EPA 9060A m
SKL0276-CCV2	Total Organic Carbon	44.446	44.0	99.0	%	EPA 9060A m
SKL0276-CCV3	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0276-CCV4	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV5	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SKL0276-CCV6	Total Organic Carbon	44.446	44.1	99.1	%	EPA 9060A m
SKL0276-CCV7	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV8	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0276-CCV9	Total Organic Carbon	44.446	46.3	104	%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0311

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0311-ICV1	Total Organic Carbon	44.446	43.6	98.0	%	EPA 9060A m
SKL0311-CCV1	Total Organic Carbon	44.446	44.4	99.8	%	EPA 9060A m
SKL0311-CCV2	Total Organic Carbon	44.446	44.3	99.8	%	EPA 9060A m
SKL0311-CCV3	Total Organic Carbon	44.446	43.6	98.1	%	EPA 9060A m
SKL0311-CCV4	Total Organic Carbon	44.446	44.4	99.8	%	EPA 9060A m
SKL0311-CCV5	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0311-CCV6	Total Organic Carbon	44.446	45.2	102	%	EPA 9060A m
SKL0311-CCV7	Total Organic Carbon	44.446	44.6	100	%	EPA 9060A m

* Values outside of QC limits

INITIAL AND CONTINUING CALIBRATION CHECK

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Instrument ID: TOC Cube
Calibration: FD00070
Control Limt: +/- 10.00%
Sequence: SKL0336

Lab Sample ID	Analyte	True	Found	%R	Units	Method
SKL0336-CCVE	Total Organic Carbon	44.446	43.3	97.5	%	EPA 9060A m
SKL0336-CCVF	Total Organic Carbon	44.446	43.9	98.8	%	EPA 9060A m
SKL0336-CCVG	Total Organic Carbon	44.446	44.1	99.2	%	EPA 9060A m
SKL0336-ICV1	Total Organic Carbon	44.446	44.5	100	%	EPA 9060A m
SKL0336-CCV1	Total Organic Carbon	44.446	44.1	99.3	%	EPA 9060A m
SKL0336-CCV2	Total Organic Carbon	44.446	44.1	99.3	%	EPA 9060A m
SKL0336-CCV3	Total Organic Carbon	44.446	44.8	101	%	EPA 9060A m
SKL0336-CCV4	Total Organic Carbon	44.446	45.5	102	%	EPA 9060A m
SKL0336-CCV5	Total Organic Carbon	44.446	45.3	102	%	EPA 9060A m
SKL0336-CCV6	Total Organic Carbon	44.446	45.0	101	%	EPA 9060A m
SKL0336-CCV7	Total Organic Carbon	44.446	46.1	104	%	EPA 9060A m
SKL0336-CCV8	Total Organic Carbon	44.446	43.8	98.5	%	EPA 9060A m
SKL0336-CCV9	Total Organic Carbon	44.446	44.4	99.9	%	EPA 9060A m
SKL0336-CCVA	Total Organic Carbon	44.446	44.7	100	%	EPA 9060A m
SKL0336-CCVB	Total Organic Carbon	44.446	44.3	99.6	%	EPA 9060A m
SKL0336-CCVC	Total Organic Carbon	44.446	44.2	99.4	%	EPA 9060A m
SKL0336-CCVD	Total Organic Carbon	44.446	44.3	99.8	%	EPA 9060A m

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0501-SRM1
Batch: BKL0501
Initial/Final: 0.314 g / 0.314 g
Preparation: Plumb 1981
Analyzed: 12/22/2022 21:22
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.98	0.02	0.02		99.6	80 - 120

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0502-SRM1
Batch: BKL0502
Initial/Final: 0.3046 g / 0.3046 g
Preparation: Plumb 1981
Analyzed: 12/23/2022 15:07
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	3.01	0.02	0.02		101	80 - 120

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0503-SRM1
Batch: BKL0503
Initial/Final: 0.3454 g / 0.3454 g
Preparation: Plumb 1981
Analyzed: 12/24/2022 23:58
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	3.00	0.02	0.02		100	80 - 120

* Values outside of QC limits

Analytical Resources, LLC
Analytical Chemists and Consultants

STANDARD REFERENCE MATERIAL RECOVERY

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0504-SRM1
Batch: BKL0504
Initial/Final: 0.31 g / 0.31 g
Preparation: Plumb 1981
Analyzed: 12/25/2022 17:45
Standard ID: K011448
Expires: 12/31/2079
Standard Lot#: NA
Description: 1941B - Organics in Marine Sediment (Conv

ANALYTE	TRUE (% wet)	FOUND (% wet)	MDL	MRL	Q	SRM % REC.	QC LIMITS REC.
Total Organic Carbon	2.9900	2.98	0.02	0.02		99.8	80 - 120

* Values outside of QC limits

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC778B 22L0246-01	12/09/22 07:56	12/09/22 16:40	12/21/22 10:10	12	14	12/23/22 09:02			
LDW22-SC778C 22L0246-02	12/09/22 07:56	12/09/22 16:40	12/21/22 10:10	12	14	12/23/22 09:33			
LDW22-SC778C-FD 22L0246-03	12/09/22 07:56	12/09/22 16:40	12/21/22 10:10	12	14	12/23/22 10:03			
LDW22-SC778D 22L0246-04	12/09/22 07:56	12/09/22 16:40	12/21/22 10:10	12	14	12/23/22 10:33			
LDW22-SC778E 22L0246-05	12/09/22 07:56	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 15:37			
LDW22-SC778F 22L0246-06	12/09/22 07:56	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 17:08			
LDW22-IT810A 22L0246-07	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 17:38			
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 18:09			
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 18:39			
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 13:51			
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 14:21			
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 14:52			
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 15:22			
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 15:52			
LDW22-SC779A 22L0246-15	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 16:23			
LDW22-SC779B 22L0246-16	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 16:53			
LDW22-SC779C 22L0246-17	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 17:24			
LDW22-SC779D 22L0246-18	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 17:54			
LDW22-SC779D-FD 22L0246-19	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 18:24			
LDW22-SC779E 22L0246-20	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 19:55			
LDW22-SC779F 22L0246-21	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 20:26			
LDW22-SC779G 22L0246-22	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 20:56			

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC779H 22L0246-23	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 21:26			
LDW22-SC779I 22L0246-24	12/09/22 08:09	12/09/22 16:40	12/21/22 11:40	12	14	12/24/22 21:56			
LDW22-SC779J 22L0246-25	12/09/22 08:09	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 00:29			
LDW22-SC777A 22L0246-26	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 03:01			
LDW22-SC777B 22L0246-27	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 03:31			
LDW22-SC777C 22L0246-28	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 04:02			
LDW22-SC777D 22L0246-29	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 04:32			
LDW22-SC777E 22L0246-30	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 05:03			
LDW22-SC777F 22L0246-31	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 05:33			
LDW22-SC777G 22L0246-32RE1	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/30/22 11:47			
LDW22-SC777H 22L0246-33	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 06:34			
LDW22-SC777I 22L0246-34	12/09/22 08:52	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 08:06			
LDW22-SC759C 22L0246-35	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 08:37			
LDW22-SC759D 22L0246-36	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 09:07			
LDW22-SC759E 22L0246-37	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 09:38			
LDW22-SC759F 22L0246-38	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 10:08			
LDW22-SC759G 22L0246-39	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 10:39			
LDW22-SC759H 22L0246-40	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 11:09			
LDW22-SC759B 22L0246-41	12/09/22 09:58	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 14:12			
LDW22-IT809A 22L0246-42	12/09/22 11:44	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 14:43			
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 15:13			
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/22/22 07:25	12	14	12/25/22 15:44			

HOLDING TIME SUMMARY

Analysis: EPA 9060A m

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 18:16			
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 20:47			
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 21:18			
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 21:48			
Duplicate BKL0502-DUP1	12/09/22 07:56	12/09/22 16:40	12/21/22 11:40	12	14	12/23/22 16:08			
Matrix Spike BKL0502-MS2	12/09/22 07:56	12/09/22 16:40	12/21/22 11:40	12	14	01/01/23 14:37			
Duplicate BKL0503-DUP2	12/09/22 08:09	12/09/22 16:40	12/22/22 07:25	12	14	12/30/22 09:44			
Matrix Spike BKL0503-MS2	12/09/22 08:09	12/09/22 16:40	12/22/22 07:25	12	14	12/30/22 10:15			
Duplicate BKL0504-DUP1	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 18:46			
Matrix Spike BKL0504-MS1	12/09/22 11:44	12/09/22 16:40	12/22/22 10:30	12	14	12/25/22 20:17			

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

EPA 9060A m

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument: TOC Cube

Analyte	MDL	RL	Units
Total Organic Carbon	0.02	0.02	%

National Institute of Standards & Technology

Certificate of Analysis

Standard Reference Material® 1941b

Organics in Marine Sediment

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. Information values are also provided for total organic carbon (TOC), total carbon, hydrogen, and nitrogen. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Certified Mass Fraction Values: Certified mass fraction values for PAHs, PCB congeners, and chlorinated pesticides are provided in Table 1 through Table 3. The certified values for the PAHs, PCB congeners, and chlorinated pesticides are based on the agreement of results obtained at NIST from two or more chemically independent analytical techniques along with results from an interlaboratory comparison study [1]. A NIST certified value is a value for which NIST has the highest confidence in its accuracy in that all known or suspected sources of bias have been investigated or taken into account [1].

Reference Mass Fraction Values: Reference mass fraction values for additional PAHs (some in combination), additional PCB congeners, and additional chlorinated pesticides are provided in Table 4 through Table 7. Reference values for alkylated PAH groups are provided in Table 8 and for selected hopanes and steranes in Table 9. A reference value for total organic carbon is provided in Table 10. Reference values are noncertified values that are the best estimate of the true value; however, the values do not meet the NIST criteria for certification and are provided with associated uncertainties that may reflect only measurement precision, may not include all sources of uncertainty, or may reflect a lack of sufficient statistical agreement among multiple analytical methods [1].

Information Mass Fraction Values: Information mass fraction values are provided in Table 11 for carbon, hydrogen, and nitrogen. An information value is considered to be a value that will be of use to the SRM user, but insufficient information is available to assess the uncertainty associated with the value [1]. Information values cannot be used to establish metrological traceability.

Expiration of Certification: The certification of **SRM 1941b** is valid, within the measurement uncertainty specified, until **01 October 2020**, provided the SRM is handled and stored in accordance with the instructions given in this certificate (see "Instructions for Handling, Storage, and Use"). This certification is nullified if the SRM is damaged, contaminated, or otherwise modified.

Maintenance of SRM Certification: NIST will monitor this SRM over the period of its certification. If substantive technical changes occur that affect the certification before the expiration of this certificate, NIST will notify the purchaser. Registration (see attached sheet or register online) will facilitate notification.

Coordination of the technical measurements leading to the certification of this material was under the leadership of M.M. Schantz and S.A. Wise of the NIST Chemical Sciences Division.

Analytical measurements for the certification of SRM 1941b were performed at NIST by J.R. Kucklick, B.J. Porter, D.L. Poster, M.M. Schantz, P. Schubert, S. Tutschku, and L.L. Yu of the NIST Chemical Sciences Division.

Carlos A. Gonzalez, Chief
Chemical Sciences Division

Gaithersburg, MD 20899
Certificate Issue Date: 16 January 2015

Robert L. Watters, Jr., Director
Office of Reference Materials

Measurements for TOC were provided by a commercial laboratory and T.L. Wade of the Geochemical and Environmental Research Group, Texas A&M University (College Station, TX). The carbon, hydrogen, and nitrogen data were provided by a commercial laboratory. Results for the PAHs, PCBs, and chlorinated pesticides from 38 laboratories (see Appendix A) that participated in an interlaboratory comparison exercise coordinated by NIST were used. Results for the alkylated PAH groups, hopanes, and steranes from 33 laboratories (see Appendix B) that participated in another interlaboratory comparison exercise coordinated by NIST were also used.

Collection and preparation of SRM 1941b were performed by M.P. Cronise and C.N. Fales of the NIST Office of Reference Materials and B.J. Porter and M.M. Schantz of the NIST Chemical Sciences Division. The sediment material was collected with the assistance of G.G. Lauenstein, J. Collier, and J. Lewis (National Oceanic and Atmospheric Administration, Silver Spring, MD).

Consultation on the statistical design of the experimental work and evaluation of the data were provided by S.D. Leigh and J.H. Yen of the NIST Statistical Engineering Division.

Support aspects involved in the issuance of this SRM were coordinated through the NIST Office of Reference Materials.

INSTRUCTIONS FOR HANDLING, STORAGE, AND USE

Handling: This material is naturally occurring marine sediment from an urban area and may contain constituents of unknown toxicities; therefore, caution and care should be exercised during its handling and use.

Storage: SRM 1941b must be stored in its original bottle at temperatures less than 30 °C and away from direct sunlight.

Use: Prior to removal of subsamples for analysis, the contents of the bottle should be mixed. The mass fractions of constituents in SRM 1941b are reported on a dry-mass basis. The SRM, as received, contains a mass fraction of approximately 2.4 % moisture (see "Conversion to Dry-Mass Basis"). The sediment sample should be dried to a constant mass before weighing for analysis; or a separate subsample of the sediment should be removed from the bottle at the time of analysis and dried to determine the mass fraction on a dry-mass basis. If the constituents of interest are volatile, then the moisture must be determined with a separate subsample.

PREPARATION AND ANALYSIS[1]

Sample Collection and Preparation: The sediment used to prepare this SRM was collected from the Chesapeake Bay at the mouth of the Baltimore (MD) Harbor near the Francis Scott Key Bridge (39°12.3'N and 76°31.4'W). This location is very near the site where SRM 1941 and SRM 1941a were collected. The sediment was collected using a Kynar-coated modified Van Veen-type grab sampler. A total of approximately 3300 kg of wet sediment was collected from the site. The sediment was freeze-dried, sieved at 150 μm (100 % passing), homogenized in a cone blender, radiation sterilized (^{60}Co), and then packaged in screw-capped amber glass bottles each containing approximately 50 g.

Conversion to Dry-Mass Basis: The results for the constituents in SRM 1941b are reported on a dry-mass basis; however, the material "as received" contains residual moisture. The amount of moisture in SRM 1941b was determined by measuring the mass loss after freeze-drying subsamples of 1.1 g to 1.3 g for four days at 1 Pa with a –10 °C shelf temperature and a –50 °C condenser temperature. The moisture content in SRM 1941b at the time of the certification analyses was 2.39 % ± 0.08 % (95 % confidence level). Analytical results for the organic constituents were determined on an as-received basis and then converted to a dry-mass basis by dividing by the conversion factor of 0.9761 (gram dry mass per gram as-received mass).

Polycyclic Aromatic Hydrocarbons: The general approach used for the value assignment of the PAHs in SRM 1941b was similar to that reported in detail elsewhere [2]. The approach consisted of combining results from analyses using various combinations of different extraction techniques and solvents, clean-up/isolation procedures, and chromatographic separation and detection techniques: Soxhlet extraction and pressurized-fluid extraction (PFE) using dichloromethane (DCM) or a hexane/acetone mixture, cleanup of the extracts using solid-phase extraction (SPE) or normal-phase liquid chromatography (LC), followed by analysis using the following techniques: (1) reversed-phase liquid chromatography with fluorescence detection (LC-FL) analysis of the total PAH fraction, (2) reversed-phase

[1] Certain commercial equipment, instruments or materials are identified in this certificate to adequately specify the

LC-FL analysis of isomeric PAH fractions isolated by normal-phase LC (i.e., multidimensional LC), (3) gas chromatography/mass spectrometry (GC/MS) analysis of the PAH fraction on three stationary phases of different selectivity, i.e., a 5 % (all column compositions are given as mole fractions in %) phenyl-substituted methylpolysiloxane phase, a 50 % phenyl-substituted methylpolysiloxane phase, and a relatively non-polar proprietary phase.

Three sets of GC/MS results, designated as GC/MS (I), GC/MS (II), and GC/MS (III), were obtained using three columns with different selectivities for the separation of PAHs. For GC/MS (I) analyses, duplicate subsamples of approximately 1 g from ten bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 2 % DCM in hexane (all solvent concentrations are given as volume fractions in %). The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5 MS, J&W Scientific, Folsom, CA). The GC/MS (II) analyses were performed using 5 g subsamples from six bottles of SRM 1941b. These samples were extracted using PFE with DCM. The high molecular mass compounds were removed from the extracts using size exclusion chromatography (SEC) with a preparative-scale divinylbenzene-polystyrene column (10 μm particle size with 10 nm diameter pores), and the sulfur was removed from the extracts by adding copper powder. The concentrated extract was passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The analysis was by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17 MS, J&W Scientific). For the GC/MS (III), 9 g subsamples from six bottles of SRM 1941b were Soxhlet-extracted for 18 h with 250 mL of a mixture of 50 % hexane/50 % acetone. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific).

Two sets of LC-FL results, designated as LC-FL (total) and LC-FL (isomer), were used in the certification process. For the LC-FL (total), subsamples of approximately 1 g from six bottles of SRM 1941b were extracted using PFE with a mixture of 50 % hexane/50 % acetone. The extracts were concentrated and then processed through an aminopropylsilane SPE cartridge using 2 % DCM in hexane to obtain the total PAH fraction. For the LC-FL (isomer), a 5 g subsample from the six bottles was extracted using PFE with DCM and processed through an aminopropylsilane SPE cartridge using 10 % DCM in hexane; the PAH fraction was then fractionated further on a semi-preparative aminopropylsilane column (μBondapak NH_2, 9 mm i.d. × 30 cm, Waters Associates, Milford, MA) to isolate isomeric PAH fractions as described previously [3–6]. The total PAH fraction and the isomeric PAH fractions were analyzed using a 5 μm particle-size polymeric octadecylsilane (C_{18}) column (4.6 mm i.d. × 25 cm, Hypersil-PAH, Keystone Scientific, Inc., Bellefonte, PA) with wavelength-programmed fluorescence detection [4,5].

For the GC/MS and LC-FL measurements described above, selected perdeuterated PAHs were added to the sediment prior to solvent extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PAHs in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

Homogeneity Assessment for PAHs: The homogeneity of SRM 1941b was assessed by analyzing duplicate samples of approximately 1 g from ten bottles selected by stratified random sampling. Samples were extracted, processed, and analyzed as described above for GC/MS (I). No statistically significant differences among bottles were observed for the PAHs at this sample size.

PAH Isomers of Molecular Mass 300 and 302: For the determination of the molecular mass 300 and 302 isomers, three subsamples of approximately 5 g each were extracted using PFE with DCM. The extracts were then concentrated with a solvent change to hexane and passed through an aminopropyl SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS using a 0.25 mm i.d. × 60 m fused silica capillary column with a 50 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-17MS, J&W Scientific). Perdeuterated dibenzo[*a,i*]pyrene was added to the sediment prior to extraction for use as an internal standard [8].

PCBs and Chlorinated Pesticides: The general approach used for the determination of PCBs and chlorinated pesticides in SRM 1941b consisted of combining results from analyses using various combinations of different extraction techniques and solvents, cleanup/isolation procedures, and chromatographic separation and detection techniques. Techniques and solvents included Soxhlet extraction and PFE using DCM or a hexane/acetone mixture,

clean-up/isolation using SPE or LC, followed by analysis using GC/MS and gas chromatography with electron capture detection (GC-ECD) on two columns with different selectivity for the separation of PCBs and chlorinated pesticides. The analytical methods are described in detail elsewhere [2].

Six sets of results were obtained and designated as GC-ECD (I) A and B, GC/MS (I) A and B, GC/MS (II), and Interlaboratory Comparison Exercise. For the GC-ECD (I) analyses, approximately 10 g subsamples from six bottles of SRM 1941b were extracted using PFE with DCM. Copper powder was added to the extract to remove elemental sulfur, and SEC, as described above, was used to remove the high molecular mass compounds. The concentrated extract was then fractionated on a semi-preparative aminopropylsilane column to isolate two fractions containing: (1) the PCBs and lower-polarity pesticides and (2) the more polar pesticides. GC-ECD analyses of the two fractions were performed on two columns of different selectivities for PCB separations: 0.25 mm × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5, J&W Scientific), and a 0.25 mm × 60 m fused silica capillary column with a non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The results from the 5 % phenyl phase are designated as GC-ECD (IA) and the results from the proprietary phase are designated as GC-ECD (IB). For the GC-ECD analyses, two PCB congeners that are not significantly present in the sediment extract (PCB 103 and PCB 198 [9,10]) and endosulfan I-d_4, 4,4'-DDE-d_8, 4,4'-DD-d_8, and 4,4'-DDT-d_8 were added to the sediment prior to extraction for use as internal standards for quantification purposes.

Two sets of results were obtained by GC/MS. For GC/MS (I), approximately 9 g subsamples from six bottles were Soxhlet- extracted with a mixture of 50 % hexane/50 % acetone for approximately 18 h. Copper powder was added to the extract to remove elemental sulfur, and the concentrated extract was passed through a silica SPE cartridge and eluted with 10 % DCM in hexane. The processed extract was then analyzed by GC/MS with two ionization modes, electron impact (EI) and negative ion chemical ionization (NICI). The GC/MS EI method, GC/MS (IA), used a 0.25 mm i.d. × 60 m fused silica capillary column with a relatively non-polar proprietary phase (0.25 μm film thickness; DB-XLB, J&W Scientific). The GC/MS NICI method, GC/MS (IB), used a 0.25 mm i.d. × 60 m fused silica capillary column with a 5 % phenyl-substituted methylpolysiloxane phase (0.25 μm film thickness; DB-5MS, J&W Scientific). The GC/MS (II) results were obtained in the same manner as the GC/MS (IA) analyses except that three subsamples were Soxhlet-extracted with DCM for approximately 18 h. For the GC/MS analyses, selected carbon-13 labeled PCB congeners and chlorinated pesticides were added to the sediment prior to extraction for use as internal standards for quantification purposes.

In addition to the analyses performed at NIST, SRM 1941b was used in an interlaboratory comparison exercise in 1999 as part of the NIST Intercomparison Exercise Program for Organic Contaminants in the Marine Environment [7]. Results from 38 laboratories that participated in this exercise were used as the sixth data set in the determination of the certified values for PCB congeners and chlorinated pesticides in SRM 1941b. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest.

The reference value for PCB 77 was determined from a separate fraction. The samples were extracted and processed as for GC-ECD (I) above. The first (PCB and lower-polarity pesticide) fraction from the semi-preparative aminopropylsilane column was further fractionated using a Cosmosil PYE (pyrenylethyl group bonded) column (5 μm particle size, 4.6 mm i.d. × 25 cm ; Phenomenex, Torrance, CA) [11]. Three fractions were collected: the first fraction contained the pesticides and multi-*ortho* PCBs, the second fraction contained the polychlorinated naphthalenes, non-*ortho* PCB congeners, and some mono-*ortho* PCB congeners, and the third fraction removed the residual planar compounds from the column. The second fraction was analyzed by GC/MS NICI using the same column as GC/MS (IB) above. Carbon-13 labeled PCB 77 was used as an internal standard for quantification purposes.

Alkylated PAH Groups, Hopanes, and Steranes: SRM 1941b was used in an interlaboratory comparison exercise in 2011 [12]. Results from 33 laboratories that participated in this exercise were used in the determination of the reference values for alkylated PAH groups, hopanes, and steranes in SRM 1941b. Note that not all laboratories returned data for each analyte. The laboratories participating in this exercise used the analytical procedures routinely used in their laboratories to measure the analytes of interest. For the alkylated PAHs, the majority of the laboratories (>90 %) used the parent PAH for determination of the response factor for the corresponding alkylated group.

Total Organic Carbon (TOC): Two laboratories provided results for TOC using similar procedures. Briefly, subsamples of approximately 200 mg were reacted with 6 mol/L hydrochloric acid and rinsed with deionized water prior to combustion in a gas fusion furnace. The carbon monoxide and carbon dioxide produced were measured and compared to a blank for calculation of the percent TOC. Each laboratory analyzed subsamples from three bottles of SRM 1941b. One of the laboratories also analyzed three subsamples from three bottles of SRM 1941b for carbon, hydrogen, and nitrogen.

Table 1. Certified Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
Naphthalene[b,c,d,e,f,g]	848	±	95[h]
Fluorene[b,c,d,e,f,g]	85	±	15[h]
Phenanthrene[b,c,d,e,f,g]	406	±	44[h]
Anthracene[b,c,d,e,f,g]	184	±	18[h]
3-Methylphenanthrene[b,c,d]	105	±	13[h]
2-Methylphenathrene[b,c,d]	128	±	14[h]
1-Methylphenanthrene[b,c,d,g]	73.2	±	5.9[h]
Fluoranthene[b,c,d,e,f,g]	651	±	50[h]
Pyrene[b,c,d,e,f,g]	581	±	39[h]
Benz[*a*]anthracene[b,c,d,e,f,g]	335	±	25[h]
Chrysene[d,f]	291	±	31[h]
Triphenylene[d,f]	108	±	5[i]
Benzo[*b*]fluoranthene[c,e]	453	±	21[h]
Benzo[*k*]fluoranthene[b,c,d,e]	225	±	18[h]
Benzo[*e*]pyrene[b,c,d,g]	325	±	25[h]
Benzo[*a*]pyrene[b,c,d,f,g]	358	±	17[h]
Perylene[b,c,d,f,g]	397	±	45[h]
Benzo[*ghi*]perylene[b,c,d,f,g]	307	±	45[h]
Indeno[1,2,3-*cd*]pyrene[b,c,d,f,g]	341	±	57[h]
Dibenz[*a,j*]anthracene[b,c,d,f]	48.9	±	4.6[h]
Dibenz[*a,c*]anthracene[c,f]	36.7	±	5.2[h]
Dibenz[*a,h*]anthracene[c,f]	53	±	10[h]
Benzo[*b*]chrysene[b,c,d,f]	53	±	12[h]
Picene[b,c,d]	46.6	±	4.7[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.
[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[e] LC-FL (total) of total PAH fraction after PFE with DCM.
[f] LC-FL (isomer) of isomeric PAH fractions after PFE with DCM.
[g] 1999 Interlaboratory Comparison Study [7] with 21 to 29 laboratories submitting data for each PAH.
[h] Certified values are weighted means of the results from two to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[i] The certified value is an unweighted mean of the results from two analytical methods. The uncertainty listed with the value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the value is metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 2. Certified Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b] (µg/kg)		
PCB	8	(2,4'-Dichlorobiphenyl)[c,d,e,f,g]	1.65	±	0.19[h]
PCB	18	(2,2',5-Trichlorobiphenyl)[c,d,e,f,g]	2.39	±	0.29[h]
PCB	28	(2,4,4'-Trichlorobiphenyl)[c,d,e,f,g]	4.52	±	0.57[h]
PCB	31	(2,4',5-Trichlorobiphenyl)[c,e,f]	3.18	±	0.41[h]
PCB	44	(2,2'3,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	3.85	±	0.20[i]
PCB	49	(2,2'4,5'-Tetrachlorobiphenyl)[c,d,e,f]	4.34	±	0.28[i]
PCB	52	(2,2',5,5'-Tetrachlorobiphenyl)[c,d,e,f,g]	5.24	±	0.28[i]
PCB	66	(2,3',4,4'-Tetrachlorobiphenyl)[c,e,f,g,j]	4.96	±	0.53[i]
PCB	87	(2,2',3,4,5'-Pentachlorobiphenyl)[c,d,f,j]	1.14	±	0.16[h]
PCB	95	(2,2',3,5',6-Pentachlorobiphenyl)[c,e,f,g]	3.93	±	0.62[i]
PCB	99	(2,2',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g]	2.90	±	0.36[i]
PCB	101	(2,2',4,5,5'-Pentachlorobiphenyl)[c,e,f,g,j]	5.11	±	0.34[i]
PCB	105	(2,3,3',4,4'-Pentachlorobiphenyl)[c,d,e,f,g,j]	1.43	±	0.10[i]
PCB	110	(2,3,3',4',6-Pentachlorobiphenyl)[c,e,f,j]	4.62	±	0.36[i]
PCB	118	(2,3',4,4',5-Pentachlorobiphenyl)[c,d,e,f,g,j]	4.23	±	0.19[i]
PCB	128	(2,2',3,3',4,4'-Hexachlorobiphenyl)[c,d,e,f,g,j]	0.696	±	0.044[i]
PCB	138	(2,2',3,4,4',5'-Hexachlorobiphenyl)[c,e,f,j]	3.60	±	0.28[i]
PCB	149	(2,2',3,4',5',6-Hexachlorobiphenyl)[c,d,e,j]	4.35	±	0.26[h]
PCB	153	(2,2',4,4',5,5'-Hexachlorobiphenyl)[c,d,e,f,g,j]	5.47	±	0.32[i]
PCB	156	(2,3,3',4,4',5-Hexachlorobiphenyl)[c,d,e,f,j]	0.507	±	0.090[h]
PCB	170	(2,2',3,3',4,4',5-Heptachlorobiphenyl)[c,d,e,f,g,j]	1.35	±	0.09[i]
PCB	180	(2,2',3,4,4',5,5'-Heptachlorobiphenyl)[c,d,e,f,g,j]	3.24	±	0.51[i]
PCB	183	(2,2',3,4,4',5',6-Heptachlorobiphenyl)[c,d,e,j]	0.979	±	0.087[h]
PCB	187	(2,2',3,4',5,5',6-Heptachlorobiphenyl)[c,d,e,f,g,j]	2.17	±	0.22[i]
PCB	194	(2,2',3,3',4,4',5,5'-Octachlorobiphenyl)[c,d,e,j]	1.04	±	0.06[h]
PCB	195	(2,2',3,3',4,4',5,6-Octachlorbiphenyl)[c,e,g,j]	0.645	±	0.060[i]
PCB	201	(2,2',3,3',4,5',6,6'-Octachlorobiphenyl)[c,e,j]	0.777	±	0.034[h]
PCB	206	(2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl)[c,e,f,g,j]	2.42	±	0.19[i]
PCB	209	Decachlorobiphenyl[c,d,e,f,g,j]	4.86	±	0.45[i]

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform to IUPAC rules, except PCB 201. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 201 is listed as PCB 200.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.

[g] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each PCB congener.

[h] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[i] Certified values are weighted means of the results from three to six analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[j] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

Table 3. Certified Mass Fraction Values for Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a] (µg/kg)
Hexachlorobenzene[b,c,d,e]	5.83 ± 0.38[f]
cis-Chlordane[b,c,d,e,g]	0.85 ± 0.11[h]
trans-Chlordane[b,c,e]	0.566 ± 0.093[f]
cis-Nonachlor[b,e,g]	0.378 ± 0.053[h]
trans-Nonachlor[b,c,d,e,g]	0.438 ± 0.073[f]
4,4'-DDE[b,d,e,g]	3.22 ± 0.28[h]
4,4'-DDD[b,d,e,g]	4.66 ± 0.46[h]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[e] 1999 Interlaboratory Comparison Study [7] with 13 to 31 laboratories submitting data for each pesticide.
[f] Certified values are unweighted means of the results from three to five analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the constituent listed and the values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[g] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.
[h] Certified values are weighted means of the results from three to five analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed and the values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 4. Reference Mass Fraction Values for PAHs in SRM 1941b

PAHs	Mass Fractions[a] (µg/kg)		
1-Methylnaphthalene[b,c,d,e]	127	±	14[f]
2-Methylnaphthalene[b,c,d,e]	276	±	53[f]
2,6-Dimethylnaphthalene[b,c,d,e]	75.9	±	4.5[f]
2,3,5-Trimethylnaphthalene[b,c,d,e]	25.5	±	5.1[f]
Biphenyl[b,c,d,e]	74.0	±	8.0[f]
Acenaphthylene[b,c,d,e]	53.3	±	6.4[f]
Acenaphthene[b,c,d,e]	38.4	±	5.2[f]
9-Methylphenanthrene[c]	63.5	±	2.5[g]
4-Methylphenanthrene and 9-Methylphenanthrene[b,d]	80.1	±	4.8[f]
2-Methylanthracene[c,d]	36	±	15[f]
8-Methylfluoranthene[b]	49.5	±	2.7[g]
7-Methylfluoranthene[b]	45.4	±	1.5[g]
1-Methylfluoranthene[b]	42.4	±	2.1[g]
3-Methylfluoranthene[b]	28.8	±	1.3[g]
2-Methylpyrene[b]	78.7	±	4.0[g]
4-Methylpyrene[b]	66.4	±	2.6[g]
1-Methylpyrene[b]	52.5	±	2.3[g]
Acephenanthrene[d]	30.5	±	1.9[g]
Benzo[*c*]phenanthrene[b,c,d]	58	±	15[f]
Benzo[*a*]fluoranthene[b,c,d]	73	±	18[f]
Benzo[*j*]fluoranthene[c]	217	±	5[g]
Indeno[1,2,3-*cd*]fluoranthene[d]	9.63	±	0.34[g]
Pentaphene[d]	25.3	±	1.0[g]

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] GC/MS (I) on 5 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[c] GC/MS (II) on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM.

[d] GC/MS (III) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[e] 1999 Interlaboratory Comparison Study [7] with 14 to 26 laboratories submitting data for each PAH.

[f] Reference values are weighted means of the results from two to four analytical methods [13]. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of PAHs listed as determined by the methods indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[g] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for the associated degrees of freedom (19 for footnote b and 5 for footnotes c and d) and 95 % confidence level for each analyte. The measurand is the total mass fraction of the PAHs listed as determined by the method indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

Table 5. Reference Mass Fraction Values for PAHs of Molecular Mass 300 and 302 in SRM 1941b

PAHs of Molecular Mass 300 and 302	Mass Fractions[a,b,c] (µg/kg)		
Coronene	72.6	±	4.7
Dibenzo[*b,e*]fluoranthene	10.3	±	0.3
Naphtho[1,2-*b*]fluoranthene	91.0	±	3.1
Naphtho[1,2-*k*]fluoranthene and Naphtho[2,3-*j*]fluoranthene	79.8	±	2.5
Naphtho[2,3-*b*]fluoranthene	23.5	±	0.3
Dibenzo[*b,k*]fluoranthene	95.6	±	3.1
Dibenzo[*a,k*]fluoranthene	26.6	±	0.4
Dibenzo[*j,l*]fluoranthene	63.8	±	1.8
Dibenzo[*a,l*]pyrene	11.1	±	1.0
Naphtho[2,3-*k*]fluoranthene	10.7	±	0.6
Naphtho[1,2-*a*]pyrene	16.7	±	1.4
Naphtho[2,3-*e*]pyrene	33.2	±	2.3
Dibenzo[*a,e*]pyrene	76.1	±	3.6
Naphtho[2,1-*a*]pyrene	59.2	±	1.8
Dibenzo[*e,i*]pyrene	35.0	±	2.4
Naphtho[2,3-*a*]pyrene	16.5	±	0.6
Benzo[*b*]perylene	38.2	±	1.2
Dibenzo[*a,i*]pyrene	25.5	±	1.0
Dibenzo[*a,h*]pyrene	6.94	±	0.29

[a] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[b] Reference values are the means of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution for two degrees of freedom and 95 % confidence level for each analyte. The measurand is the total mass fraction of the constituent listed as determined by the method indicted. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.

[c] GC/MS on 50 % phenyl-substituted methylpolysiloxane phase after PFE with DCM [8].

Table 6. Reference Mass Fraction Values for PCB Congeners[a] in SRM 1941b

PCB Congeners			Mass Fractions[b,c] (µg/kg)		
PCB	45	(2,2',3,6-Tetrachlorobiphenyl)[d,e]	0.73	±	0.12
PCB	56	(2,3,3',4'-Tetrachlorobiphenyl)[d,f,g]	1.21	±	0.11
PCB	63	(2,3,4',5-Tetrachlorobiphenyl)[e,f,g]	0.213	±	0.040
PCB	70	(2,3',4',5-Tetrachlorobiphenyl)[e,f,g]	4.99	±	0.29
PCB	74	(2,4,4',5-Tetrachlorobiphenyl)[e,f,g]	2.04	±	0.15
PCB	77	(3,3',4,4'-Tetrachlorobiphenyl)[h]	0.31	±	0.03
PCB	107	(2,3,3',4',5-Pentachlorobiphenyl)[d,e,f,g]	0.628	±	0.028
PCB	132	(2,2',3,3',4,6'-Hexachlorobiphenyl)[d,f,g]	1.28	±	0.27
PCB	146	(2,2',3,4',5,5'-Hexachlorobiphenyl)[e,f,g]	1.22	±	0.12
PCB	158	(2,3,3',4,4',6-Hexachlorobiphenyl)[d,e,f,g]	0.65	±	0.15
PCB	163	(2,3,3',4',5,6-Hexachlorobiphenyl)[e,f,g]	1.28	±	0.06
PCB	174	(2,2',3,3',4,5,6'-Heptachlorobiphenyl)[d,e,f,g]	1.51	±	0.39
PCB	193	(2,3,3',4',5,5',6-Heptachlorobiphenyl)[d,e,f,g]	0.292	±	0.075

[a] PCB congeners are numbered according to the scheme proposed by Ballschmiter and Zell [9] and later revised by Schulte and Malisch [10] to conform with IUPAC rules, except PCB 107. Under the Ballschmiter and Zell numbering system, the IUPAC PCB 107 is listed as PCB 108.

[b] Mass fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.

[c] For these PCB congeners except PCB 77, the reference values are unweighted means of the results from two to four analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled within-method variance following the ISO/JCGM Guide [14,15]. For PCB 77, the reference value is the mean of results obtained by NIST using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the analyte mean, and the coverage factor, k, is determined from the Student's t-distribution corresponding to two degrees of freedom and 95 % confidence level for PCB 77. The measurand is the total mass fraction of the PCB Congeners listed as determined by the method or methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as microgram per kilogram on a dry-mass basis.

[d] GC-ECD (IA) on 5 % phenyl-substituted methylpolysiloxane phase after PFE extraction with DCM.

[e] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).

[f] GC/MS (IA) on a relatively non-polar proprietary phase after Soxhlet extraction with 50 % hexane/50 % acetone mixture.

[g] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).

[h] GC/MS NICI on a 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC-ECD (I) fractionated using a PYE column.

Table 7. Reference Mass Fraction Values for Selected Chlorinated Pesticides in SRM 1941b

Chlorinated Pesticides	Mass Fractions[a,b] (µg/kg)		
2,4'-DDE[c,d]	0.38	±	0.12
4,4'-DDT[e,f]	1.12	±	0.42

[a] Mass Fractions reported on dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference values are unweighted means of the results from two analytical methods. The uncertainty listed with each value is an expanded uncertainty about the mean, with coverage factor 2, calculated by combining a between-method variance [16] with a pooled, within-method variance following the ISO/JCGM Guide [14,15]. The measurand is the total mass fraction of the chlorinated pesticides listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[c] GC/MS (IB) on 5 % phenyl-substituted methylpolysiloxane phase; same extracts analyzed as in GC/MS (IA).
[d] GC-ECD (IB) on a relatively non-polar proprietary phase; same extracts analyzed as in GC-ECD (IA).
[e] GC/MS (II) on a relatively non-polar proprietary phase after Soxhlet extraction with DCM.
[f] 1999 Interlaboratory Comparison Study [7] with 10 laboratories submitting data for 4,4'-DDT.

Table 8. Reference Mass Fraction Values for Alkylated PAH Groups in SRM 1941b

Alkylated PAH Group	Mass Fraction[a,b] (µg/kg)		
C2-decalins	18	±	5
C4-decalins	41	±	4
C2-naphthalenes	187	±	53
C3-naphthalenes	158	±	42
C1-benzothiophenes	25	±	14
C2-benzothiophenes	20	±	11
C3-benzothiophenes	22	±	13
C4-benzothiophenes	18	±	5
C1-fluorenes	57	±	18
C2-fluorenes	122	±	43
C3-fluorenes	128	±	31
C1-phenanthrenes/anthracenes	313	±	99
C2-phenanthrenes/anthracenes	247	±	62
C3-phenanthrenes/anthracenes	165	±	46
C4-phenanthrenes/anthracenes	87	±	36
C1-dibenzothiophenes	54	±	13
C2-dibenzothiophenes	91	±	18
C3-dibenzothiophenes	84	±	15
C4-dibenzothiophenes	57	±	13
C1-fluoranthenes/pyrenes	252	±	48
C2-fluoranthenes/pyrenes	205	±	38
C3-fluoranthenes/pyrenes	102	±	22
C4-fluoranthenes/pyrenes	121	±	59
C1-benzanthraces/chrysenes/triphenylenes	208	±	43
C2-benzanthraces/chrysenes/triphenylenes	120	±	24
C3-benzanthraces/chrysenes/triphenylenes	73	±	31
C4-benzanthraces/chrysenes/triphenylenes	41	±	11

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the alkylated PAH groups listed as determined by the interlaboratory study methods. The values listed are metrologically traceable to the SI unit of mass fraction, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 9. Reference Mass Fraction Values for Hopanes and Steranes in SRM 1941b

Hopane or Sterane	Mass Fraction[a,b] (µg/kg)
17α(H)-22,29,30-Trisnorhopane	54 ± 18
17α(H)-21β(H)-30-Norhopane	137 ± 21
17α(H)-21β(H)-30-Hopane	215 ± 44
17α(H)-21β(H)-22R-Homohopane	44 ± 10
17α(H)-21β(H)-22S-Homohopane	48 ± 13
5α(H)-14α(H),17α(H)-Cholestane 20R	41 ± 11
5α(H)-14β(H),17β(H)-Cholestane 20R	27 ± 6
5α(H)-14β(H),17β(H)-24-Methylcholestane 20R	21 ± 8
5α(H)-14α(H),17α(H)-24-Ethylcholestane 20R	19 ± 5
5α(H)-14β(H),17β(H)-24-Ethylcholestane 20R	41 ± 9

[a] The reference mass fraction value reported on a dry-mass basis is the median of results using one analytical technique. The expanded uncertainty, U, is calculated as $U = ku_c$, where u_c is one standard deviation of the median, and the coverage factor, $k = 2$. The measurand is the total mass fraction of the constituent listed as determined by the methods used during the interlaboratory study. The values are metrologically traceable to the SI unit of mass, expressed as micrograms per kilogram on a dry-mass basis.
[b] Data from the interlaboratory study [12].

Table 10. Reference Mass Fraction Value for Total Organic Carbon in SRM 1941b

Total Organic Carbon (TOC)	2.99 % ± 0.24 %[a,b]

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.
[b] The reference value for total organic carbon is a weighted mean value from routine measurements made by two laboratories [21]. The uncertainty listed is an expanded uncertainty about the mean, with coverage factor 2 (approximately 95 % confidence), calculated by combining a between-method variance incorporating inter-method bias with a pooled within-method variance. The reporting follows the ISO/JCGM Guides [2]. The measurand is the total mass fraction of TOC listed as determined by the methods indicted. The values listed are metrologically traceable to the SI unit of mass, expressed as a percent on a dry-mass basis.

Table 11. Information Mass Fraction Values for Carbon, Hydrogen, and Nitrogen in SRM 1941b

Elements	Mass Fractions[a] (%)
Carbon	3.3
Hydrogen	1.2
Nitrogen	<0.5

[a] Mass fraction is reported on a dry-mass basis; material as received contains approximately 2.4 % moisture.

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Certificate Revision History: 16 January 2015 (Corrected IUPAC name for PCB-56 and PCB-107; editorial changes); 10 June 2014 (Units corrected from mg/kg to µg/kg in Tables 8 and 9; editorial changes); 10 April 2012 (Reference value added for alkylated PAH groups, hopanes, and steranes; extension of certification period; editorial changes); 16 August 2004 (Reference values for the butyl tins removed; editorial changes); 15 July 2002 (Original certificate date).

Users of this SRM should ensure that the Certificate of Analysis in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srminfo@nist.gov; or via the Internet at http://www.nist.gov/srm.

APPENDIX A

The laboratories listed below performed measurements that contributed to the certification of PAHs, PCBs, and chlorinated pesticides in SRM 1941b Organics in Marine Sediment.

Arthur D. Little, Inc; Cambridge, MA
Axys Analytical Services; Sidney, BC, Canada
B & B Laboratories; College Station, TX
Battelle Ocean Sciences; Duxbury, MA
Bedford Institute of Oceanography; Dartmouth, NS, Canada
California Department of Fish and Game; Rancho Cordova, CA
Central Contra Costa Sanitary District; Martinez, CA
Chesapeake Biological Laboratory; Solomons, MD
Centro de Investigacionies Energeticas Medioambientales y Tecnologicas; Madrid, Spain
City of Los Angeles Environmental Monitoring Division; Playa del Rey, CA
City of San Jose Environmental Services Department; San Jose, CA
Columbia Analytical Services; Kelso, WA
East Bay Municipal Utility District; Oakland, CA
Florida Department of Environmental Protection; Tallahassee, FL
Manchester Environmental Laboratory; Port Orchard, WA
Murray State University; Murray, KY
Massachusetts Water Resources Authority Central Lab; Winthrop, MA
National Research Council of Canada; Ottawa, Ontario, Canada
National Oceanic and Atmospheric Association (NOAA), National Marine Fisheries Service (NMFS), Auke Bay Laboratory; Juneau, AK
NOAA, National Ocean Service/Center for Coastal Environmental Health and Biomolecular Research; Charleston, SC
NOAA, NMFS, Sandy Hook Marine Laboratory; Highlands, NJ
NOAA, NMFS, Northwest Fisheries Science Center; Seattle, WA
Orange County Sanitation District; Fountain Valley, CA
Philip Analytical Services; Burlington, Ontario, Canada
Serv de Hidrografia Naval; Buenos Aires, Argentina
Skidaway Institute of Technology; Savannah, GA
Southwest Laboratory of Oklahoma; Broken Arrow, OK
Severn Trent Knoxville Laboratory; Knoxville, TN
Texas A&M University, Geochemical and Environmental Research Group; College Station, TX
Texas Parks and Wildlife Department; San Marcos, TX
University of California at Los Angeles, Institute of Geophysics and Planetary Physics; Los Angeles, CA
University of Connecticut, Environmental Research Institute; Storrs, CT
University of Rhode Island, Graduate School of Oceanography; Narragansett, RI
US Department of Agriculture, Environmental Chemistry Laboratory; Beltsville, MD
US Environmental Protection Agency, Atlantic Ecology Division; Narragansett, RI
US Geological Survey, National Water Quality Laboratory; Denver, CO
Woods Hole Group Environmental Lab; Raynham, MA
Wright State University; Dayton, OH

APPENDIX B

The laboratories listed below performed measurements that contributed to the certification of alkylated PAH groups, hopanes, and steranes in SRM 1941b Organics in Marine Sediment.

Alpha Analytical, Inc.; Mansfield, MA
Analytical Resources, Inc.; Tukwila, WA
Axys Analytical Services; Sydney, BC, Canada
Battelle Analytical & Environmental Chemistry Laboratory; Duxbury, MA
Center for Laboratory Sciences; Pasco, WA
Columbia Analytical Services; Jacksonville, FL
Columbia Analytical Services; Rochester, NY
Columbia Analytical Services, Kelso, WA
Florida Department of Environmental Protection; Tallahassee, FL
Florida International University; North Miami, FL
Michigan Department of Natural Resources and Environment; Lansing, MI
Mississippi State Chemical Laboratory; Mississippi State, MS
NIST; Charleston, SC
NIST; Gaithersburg, MD
NOAA/NCCOS/NOS; Charleston, SC
NOAA/NMFS/Alaska Fisheries Science Center; Juneau, AK
NY State Department of Health; Albany, NY
Pace Analytical Services, Inc. Minneapolis; Minneapolis, MN
RJ Lee Group, Inc; Monroeville, PA
TDI/B&B Laboratories, Inc.; College Station, TX
TestAmerica Laboratories; Mobile, AL
TestAmerica Laboratories; West Sacramento, CA
TestAmerica Laboratories; University Park, IL
TestAmerica Laboratories; Schriever, LA
TestAmerica Laboratories; Edison, NJ
TestAmerica Laboratories; Knoxville, TN
TestAmerica Laboratories; Pittsburgh, PA
TestAmerica Laboratories; South Burlington, VT
TestAmerica Laboratories; Tacoma, WA
US Army Engineer Research and Development Center; Vicksburg, MS
USGS Columbia Environmental Research Center; Columbia, MO
University of Iowa, State Hygienic Laboratory; Iowa City, IO
Washington State Public Health Laboratories; Shoreline, WA

NIST

Date of Issue:
31 March 2014

SAFETY DATA SHEET

1. Substance and Source Identification

Product Identifier

SRM Number: 1941b
SRM Name: Organics in Marine Sediment
Other Means of Identification: Not applicable.

Recommended Use of This Material and Restrictions of Use

This Standard Reference Material (SRM) is marine sediment collected at the mouth of the Baltimore (MD) Harbor. SRM 1941b is intended for use in evaluating analytical methods for the determination of selected polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and chlorinated pesticides in marine sediment and similar matrices. All of the constituents for which certified, reference, and information values are provided in SRM 1941b were naturally present in the sediment before processing. A unit of SRM 1941b consists of a bottle containing 50 g of radiation-sterilized, freeze-dried sediment.

Company Information

National Institute of Standards and Technology
Standard Reference Materials Program
100 Bureau Drive, Stop 2300
Gaithersburg, Maryland 20899-2300

Telephone: 301-975-2200
FAX: 301-948-3730
E-mail: SRMMSDS@nist.gov
Website: http://www.nist.gov/srm

Emergency Telephone ChemTrec:
1-800-424-9300 (North America)
+1-703-527-3887 (International)

2. Hazards Identification

Classification

Physical Hazard: Not classified.
Health Hazard: Not classified.

Label Elements
Symbol
No Symbol/Pictogram

Signal Word
Not applicable.

Hazard Statement(s): Not applicable.

Precautionary Statement(s): Not applicable.

Hazards Not Otherwise Classified: Not applicable.

Ingredients(s) with Unknown Acute Toxicity: Not applicable.

3. Composition and Information on Hazardous Ingredients

Substance: Marine sediment

Other Designations: Sediment.

This material is naturally occurring marine sediment from an urban area. The material contains trace amounts of polycyclic aromatic hydrocarbons (PAHs), polychlorinated biphenyl (PCB) congeners, and should be handled with care. Components are listed in compliance with OSHA's 29 CFR 1910.1200; for the actual values see the Certificate of Analysis.

Hazardous Component(s)	CAS Number	EC Number (EINECS)	Nominal Mass Concentration (%)
Marine Sediment	Not available	Not available	100

4. First Aid Measures

Description of First Aid Measures:

Inhalation: If adverse effects occur, remove to uncontaminated area. If not breathing, give artificial respiration or oxygen by qualified personnel. Seek immediate medical attention.

Skin Contact: Wash skin with soap and water.

Eye Contact: Flush eyes with water for at least 15 minutes. If necessary, seek medical attention.

Ingestion: If adverse effects occur after ingestion, seek medical treatment.

Most Important Symptoms/Effects, Acute and Delayed: May cause irritation.

Indication of any immediate medical attention and special treatment needed, if necessary: If any of the above symptoms are present, seek medical attention if needed.

5. Fire Fighting Measures

Fire and Explosion Hazards: Negligible fire hazard. Avoid generating dust. See Section 9, "Physical and Chemical Properties" for flammability properties.

Extinguishing Media:
Suitable: Use extinguishing media appropriate for surrounding fire.
Unsuitable: None listed.

Specific Hazards Arising from the Chemical: None listed.

Special Protective Equipment and Precautions for Fire-Fighters: Avoid inhalation of material or combustion byproducts. Wear full protective clothing and NIOSH approved self-contained breathing apparatus (SCBA).

NFPA Ratings (0 = Minimal; 1 = Slight; 2 = Moderate; 3 = Serious; 4 = Severe)

Health = 1 Fire = 0 Reactivity = 0

6. Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures: Any accumulated material on surfaces should be removed and properly disposed of. Use suitable protective equipment; see Section 8, "Exposure Controls and Personal Protection".

Methods and Materials for Containment and Clean up: Collect spilled material in appropriate container for disposal. Keep out of water supplies and sewers. Keep unnecessary people away, isolate hazard area and deny entry.

7. Handling and Storage

Safe Handling Precautions: Minimize dust generation and accumulation on surfaces. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. See Section 8, "Exposure Controls and Personal Protection".

Storage: Store and handling in accordance with all current regulations and standards.

8. Exposure Controls and Personal Protection

Exposure Limits: No occupational exposure limits have been established for marine sediment. This material is a particulate matter and adequate inhalation/respiratory protection should be used to minimize exposure. The exposure limits for Particulates Not Otherwise Regulated (PNOR) are applicable.

OSHA (PEL): 15 mg/m^3 (TWA, total particulates not otherwise regulated)
OSHA (PEL) 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

NIOSH (REL): 10 mg/m^3 (TWA, total particulates not otherwise regulated, 8 h)
NIOSH (REL): 5 mg/m^3 (TWA, respirable particulates not otherwise regulated)

Engineering Controls: Provide local exhaust or process enclosure ventilation system. Ensure compliance with applicable exposure limits.

Personal Protection: In accordance with OSHA 29 CFR 1910.132, subpart I, wear appropriate Personal Protective Equipment (PPE) to minimize exposure to this material.

Respiratory Protection: If workplace conditions warrant a respirator, a respiratory protection program that meets OSHA 29CFR 1910.134 must be followed. Refer to NIOSH 42 CFR 84 for applicable certified respirators.

Eye/Face Protection: Wear splash resistant safety goggles with a face shield. An eye wash station should be readily available near areas of use.

Skin and Body Protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Chemical-resistant gloves should be worn at all times when handling chemicals.

9. PHYSICAL AND CHEMICAL PROPERTIES

Descriptive Properties:

Appearance (physical state, color, etc.):	amorphous powder
Molecular Formula:	not applicable
Molar Mass (g/mol):	not applicable
Odor:	not available
Odor threshold:	not available
pH:	not available
Evaporation rate:	not applicable
Melting point/freezing point (°C):	not available
Specific Gravity (water=1)	not available
Vapor Pressure (mmHg):	not applicable
Vapor Density (air = 1):	not applicable
Viscosity (cP):	not applicable
Solubility(ies):	not available
Partition coefficient (n-octanol/water):	not available
Particle Size:	<150 µm

Thermal Stability Properties:

Autoignition Temperature (°C):	not available
Thermal Decomposition (°C):	not available
Initial boiling point and boiling range (°C):	not available
Explosive Limits, LEL (Volume %):	not available
Explosive Limits, UEL (Volume %):	not available
Flash Point (°C):	not available
Flammability (solid, gas):	not available

10. STABILITY AND REACTIVITY

Reactivity: Stable at normal temperatures and pressure.

Stability: X Stable _____ Unstable

Possible Hazardous Reactions: None listed.

Conditions to Avoid: Avoid generating dust.

Incompatible Materials: None listed.

Fire/Explosion Information: See Section 5, "Fire Fighting Measures".

Hazardous Decomposition: Thermal decomposition will produce oxides of carbon.

Hazardous Polymerization: _____ Will Occur X Will Not Occur

11. TOXICOLOGICAL INFORMATION

Route of Exposure: __X__ Inhalation __X__ Skin _____ Ingestion

Symptoms Related to the Physical, Chemical and Toxicological Characteristics: Generated dust may cause irritation if inhaled.

Potential Health Effects (Acute, Chronic and Delayed):

Inhalation: Generated dust may cause irritation.

Skin Contact: May cause mechanical irritation.

Eye Contact: May cause mechanical irritation.

Ingestion: No data available.

Numerical Measures of Toxicity:

Acute Toxicity: Not classified; no data available.

Skin Corrosion/Irritation: Not classified; no data available.

Serious Eye damage/ Eye irritation: Not classified; no data available.

Respiratory Sensitization: Not classified; no data available.

Skin Sensitization: Not classified; no data available.

Germ Cell Mutagenicity: Not classified; no data available.

Carcinogenicity: Not classified.

Listed as a Carcinogen/Potential Carcinogen _____ Yes __X__ No
Marine sediment is not listed by NTP, IARC or OSHA as a carcinogen.

Reproductive Toxicity: Not classified; no data available.

Specific Target Organ Toxicity, Single Exposure: Not classified; no data available.

Specific Target Organ Toxicity, Repeated Exposure: Not classified; no data available.

Aspiration Hazard: Not classified; no data available.

12. ECOLOGICAL INFORMATION

Ecotoxicity Data: No data available.

Persistence and Degradability: No data available.

Bioaccumulative Potential: No data available.

Mobility in Soil: No data available.

Other Adverse effects: No data available.

13. DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of waste in accordance with all applicable federal, state, and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT and IATA: Not regulated by DOT or IATA.

15. REGULATORY INFORMATION

U.S. Regulations:

CERCLA Sections 102a/103 (40 CFR 302.4): Not regulated.

SARA Title III Section 302 (40 CFR 355.30): Not regulated.

SARA Title III Section 304 (40 CFR 355.40): Not regulated.

SARA Title III Sections 311/312 Hazardous Categories (40 CFR 370.21):

ACUTE HEALTH:	No.
CHRONIC HEALTH:	No.
FIRE:	No.
REACTIVE:	No.
PRESSURE:	No.

State Regulations:
California Proposition 65: Not listed.

U.S. TSCA Inventory: Not listed.

TSCA 12(b), Export Notification: Not listed.

Canadian Regulations:
WHMIS Information: Not provided for this material.

16. OTHER INFORMATION

Issue Date: 31 March 2014

Sources: 29 CFR Occupational Health and Safety Office (OSHA) 1910.1000, *Limits for Air Contaminants*, Table Z-1; available at http://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=STANDARDS&p_id=9992 (accessed Mar 2014).

Center for Disease Control (CDC) NIOSH Pocket Guide to Chemical Hazards, *Particulates not otherwise regulated*; available at http://www.cdc.gov/niosh/npg/npgd0480.html (accessed Mar 2014).

Key of Acronyms:

ACGIH	American Conference of Governmental Industrial Hygienists	NRC	Nuclear Regulatory Commission
ALI	Annual Limit on Intake	NTP	National Toxicology Program
CAS	Chemical Abstracts Service	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
CFR	Code of Federal Regulations	RCRA	Resource Conservation and Recovery Act
DOT	Department of Transportation	REL	Recommended Exposure Limit
EC50	Effective Concentration, 50 %	RM	Reference Material
EINECS	European Inventory of Existing Commercial Chemical Substances	RQ	Reportable Quantity
EPCRA	Emergency Planning and Community Right-to-Know Act	RTECS	Registry of Toxic Effects of Chemical Substances
IARC	International Agency for Research on Cancer	SARA	Superfund Amendments and Reauthorization Act
IATA	International Air Transportation Agency	SCBA	Self-Contained Breathing Apparatus
IDLH	Immediately Dangerous to Life and Health	SRM	Standard Reference Material
LC50	Lethal Concentration, 50 %	STEL	Short Term Exposure Limit
LD50	Lethal Dose, 50 %	TLV	Threshold Limit Value
LEL	Lower Explosive Limit	TPQ	Threshold Planning Quantity
MSDS	Material Safety Data Sheet	TSCA	Toxic Substances Control Act
NFPA	National Fire Protection Association	TWA	Time Weighted Average
NIOSH	National Institute for Occupational Safety and Health	UEL	Upper Explosive Limit
NIST	National Institute of Standards and Technology	WHMIS	Workplace Hazardous Materials Information System

Disclaimer: Physical and chemical data contained in this SDS are provided only for use in assessing the hazardous nature of the material. The SDS was prepared carefully, using current references; however, NIST does not certify the data in the SDS. The certified values for this material are given in the NIST Certificate of Analysis.

Users of this SRM should ensure that the SDS in their possession is current. This can be accomplished by contacting the SRM Program: telephone (301) 975-2200; fax (301) 948-3730; e-mail srmmsds@nist.gov; or via the

Bill to:	68455	Ship to:	68456
	DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205		DAVE MITCHELL ANALYTICAL RESOURCES INC 4611 S 134TH PLACE SUITE 100 TUKWILA, WA 98168-3240 1 (206)695-6205

22L0246 CLPLIKE (Rev0) - Page 330 of 349

Ship via	UPS Ground	Description		Ship from	
Salesmen	MCMIDM2	Instructions		Blanket	
Contact	DAVE MITCHELL	Pro#		Truck#	

Order discrepancies (other than back ordered items) must be reported to our Customer Relations Department at 301-975-6776 within 5 days of receipt of shipment or this order will be considered complete. NIST SRMs/RMs are generally not returnable - with the exception of defective goods or shipments made in error by NIST. To return a SRM/RM, please call for instructions and a Return SRM/RM Authorization Number before shipment. Returns WILL NOT BE ACCEPTED without prior authorization.

Order	UOM	Ship	UOM	B/O	UOM	Item	Description
1	EACH	1	EACH	0	EACH	1941B	Organics in Marine Sediment
						Total qty:	1 / EACH
							NOT FOR HUMAN CONSUMPTION, LABORATORY USE ONLY.

9/21/16
04:04 PM

1700101

Picked by	
Packed by	
# of pieces	
Weight	

MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530

Fax: 440/337-1180
web: www.mpbio.com

Certificate of Analysis

Product Description: Microcrystalline Cellulose Powder_
Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
CAS #: 9004-34-6	**Storage:** 15 - 30°C
Physical Description: White Powder	

Test	Specification	Result
Identity Test	Passes	Passes
Purity	97.0 - 102.0%	97.0 - 102.0%
Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
Heavy Metals	<10 ppm	<10 ppm

H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
Bulk Density: 0.29 g/ml
Bulk Density (graduated cylinder): 0.31 g/ml
Conductivity: 18 µS/cm
Starch: Negative
Ether Soluble Substances: 0.01%
Total Aerobic microbial Count: 100 cfu/g
Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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http://www.mpbio.com
Online Ordering, MSDSs, certificates of analysis and data sheets now available on our web site
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Certificate of Analysis

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Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$
CAS #: 9004-34-6
Physical Description: White Powder

Formula Weight: N/A
Storage: 15 - 30°C

Test	Specification	Result
Identity Test	Passes	Passes
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Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
Residue on Ignition	<0.05%	<0.05%
Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
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H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

Identification A & B: Passes
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Bulk Density (graduated cylinder): 0.31 g/ml
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Total Mold and Yeast Count: 20 cfu/g
Staphylococcus aureus: Absent/1 g
Pseudomonas aeruginosa: Absent/1 g
E. coli: Absent/1 g
Salmonella: Absent/10 g
Particle size:

- 450 mesh: 77%
- d10: 37 um
- d50: 139 um
- d90: 271 um

TUP: <9/600 cm^2
Degree of brightness: >88%
Powder flow-angle of repose: <42°
Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
Quality Control Manager

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Certificate of Analysis

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Catalog Number: 191499_
Lot: Q9483_

Formula: $(C_6H_{10}O_5)n$	**Formula Weight:** N/A
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Physical Description: White Powder	

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Identity Test	Passes	Passes
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Moisture	<5.0%	3.4%
Particle Size/Mesh +60 mesh +200 mesh	Wt % <8% >45%	 <1% 55%
pH	5 - 7	6.73
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Water Soluble Substances	<12.0 mg/5 g	4.5 mg/5 g
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H001822
Microcrystalline Cellulose Powder (TOC)
Expires 11/30/2022
Prepared By Casey English 2/22/2019

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Degree of brightness: >88%
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Recommended Retest Date: 11/30/2022

07/26/2018 - *John Huang, PhD*
MP Biomedicals, LLC.
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Analytical Resources, LLC
Analytical Chemists and Consultants

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LDW22-SC778B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-01 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	64.31	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.31	1	0.04	0.04	

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LDW22-SC778C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-02 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	66.54	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	66.54	1	0.04	0.04	

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LDW22-SC778C-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-03 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	63.31	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	63.31	1	0.04	0.04	

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LDW22-SC778D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-04 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	56.28	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.28	1	0.04	0.04	

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LDW22-SC778E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-05 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	58.88	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.88	1	0.04	0.04	

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LDW22-SC778F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-06 C	SDG:	22L0246
Sampled:	12/09/22 07:56	Prepared:	12/14/22 14:46	File ID:	
% Solids:	62.14	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.14	1	0.04	0.04	

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LDW22-IT810A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-07 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	62.41	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	62.41	1	0.04	0.04	

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LDW22-IT810B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-08 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	63.12	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	63.12	1	0.04	0.04	

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LDW22-IT810C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-09 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	58.75	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.75	1	0.04	0.04	

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LDW22-IT810B-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-10 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	64.70	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.70	1	0.04	0.04	

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LDW22-IT810D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-11 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	58.50	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.50	1	0.04	0.04	

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LDW22-IT810E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-12 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	53.40	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	53.40	1	0.04	0.04	

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LDW22-IT810F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-13 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	55.33	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.33	1	0.04	0.04	

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LDW22-IT810G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-14 D	SDG:	22L0246
Sampled:	12/09/22 08:40	Prepared:	12/14/22 14:46	File ID:	
% Solids:	64.77	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.77	1	0.04	0.04	

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LDW22-SC779A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-15 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	57.34	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.34	1	0.04	0.04	

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LDW22-SC779B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-16 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	58.04	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.04	1	0.04	0.04	

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LDW22-SC779C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-17 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	56.64	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.64	1	0.04	0.04	

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Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-18 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	56.68	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	56.68	1	0.04	0.04	

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LDW22-SC779D-FD

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-19 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	57.56	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	57.56	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-20 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:46	File ID:	
% Solids:	60.94	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:59
Batch:	BKL0373	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.94	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-21 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:48	File ID:	
% Solids:	60.85	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.85	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-22 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:48	File ID:	
% Solids:	61.19	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	61.19	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-23 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:48	File ID:	
% Solids:	64.79	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.79	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-24 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:48	File ID:	
% Solids:	64.41	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.41	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC779J

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-25 C	SDG:	22L0246
Sampled:	12/09/22 08:09	Prepared:	12/14/22 14:48	File ID:	
% Solids:	71.60	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	71.60	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-26 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	68.95	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	68.95	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-27 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	64.33	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.33	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-28 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	71.36	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	71.36	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-29 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	68.24	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	68.24	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-30 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	68.45	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	68.45	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-31 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	72.15	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	72.15	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-32 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	58.67	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	58.67	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-33 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	65.02	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.02	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC777I

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-34 C	SDG:	22L0246
Sampled:	12/09/22 08:52	Prepared:	12/14/22 14:48	File ID:	
% Solids:	63.15	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	63.15	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-35 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	63.12	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	63.12	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-36 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	65.52	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	65.52	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-37 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	71.07	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	71.07	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-38 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	70.46	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	70.46	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-39 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	70.87	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	70.87	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759H

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-40 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 14:48	File ID:	
% Solids:	64.32	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 14:58
Batch:	BKL0374	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	64.32	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-SC759B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-41 C	SDG:	22L0246
Sampled:	12/09/22 09:58	Prepared:	12/14/22 16:25	File ID:	
% Solids:	60.87	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	60.87	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809A

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-42 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	55.02	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	55.02	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809B

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-43 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	61.60	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	61.60	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809C

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-44 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	48.38	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	48.38	1	0.04	0.04	

Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809D

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-45 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	80.80	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	80.80	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809E

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-46 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	81.84	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	81.84	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809F

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-47 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	72.71	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	72.71	1	0.04	0.04	

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Form I
INORGANIC ANALYSIS DATA SHEET
SM 2540 G-97

LDW22-IT809G

Laboratory:	Analytical Resources, LLC				
Client:	Anchor QEA, LLC				
Project:	AOC4 UR Phase 3				
Matrix:	Sediment	Laboratory ID:	22L0246-48 D	SDG:	22L0246
Sampled:	12/09/22 11:44	Prepared:	12/14/22 16:25	File ID:	
% Solids:	92.25	Preparation:	No Prep Wet Chem	Analyzed:	12/14/22 16:29
Batch:	BKL0380	Sequence:		Initial/Final:	5 g Wet / 5 g
Instrument:	BAL2			Calibration:	

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	92.25	1	0.04	0.04	

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0373 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC778B	22L0246-01		12/14/22 14:46	
LDW22-SC778C	22L0246-02		12/14/22 14:46	
LDW22-SC778C-FD	22L0246-03		12/14/22 14:46	
LDW22-SC778D	22L0246-04		12/14/22 14:46	
LDW22-SC778E	22L0246-05		12/14/22 14:46	
LDW22-SC778F	22L0246-06		12/14/22 14:46	
LDW22-IT810A	22L0246-07		12/14/22 14:46	
LDW22-IT810B	22L0246-08		12/14/22 14:46	
LDW22-IT810C	22L0246-09		12/14/22 14:46	
LDW22-IT810B-FD	22L0246-10		12/14/22 14:46	
LDW22-IT810D	22L0246-11		12/14/22 14:46	
LDW22-IT810E	22L0246-12		12/14/22 14:46	
LDW22-IT810F	22L0246-13		12/14/22 14:46	
LDW22-IT810G	22L0246-14		12/14/22 14:46	
LDW22-SC779A	22L0246-15		12/14/22 14:46	
LDW22-SC779B	22L0246-16		12/14/22 14:46	
LDW22-SC779C	22L0246-17		12/14/22 14:46	
LDW22-SC779D	22L0246-18		12/14/22 14:46	
LDW22-SC779D-FD	22L0246-19		12/14/22 14:46	
LDW22-SC779E	22L0246-20		12/14/22 14:46	
Blank	BKL0373-BLK1		12/14/22 14:46	
LDW22-SC778B	BKL0373-DUP1		12/14/22 14:46	
LDW22-SC778B	BKL0373-DUP2		12/14/22 14:46	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0373
Date:	12/14/2022 14:59
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/14/2022 16:20	
date/time out:	12/15/2022 8:15	
elapsed hrs =	15.9	OK

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	105
Dry Cycle 1	102
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/14/22 15:05	12/14/22 15:30	12/15/22 9:10							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	TVS (%)	Notes
BKL0373-BLK1	1	0.8381	0.0000	0.8381			0.0000	0.00%								
22L0246-01	2	0.7954	8.4888	5.7430			4.9476	64.31%								
BKL0373-DUP1	3	0.7960	8.7659	5.9522			5.1562	64.70%	RPD=0.6							
BKL0373-DUP2	4	0.8191	9.0283	6.1200			5.3009	64.57%	RSD=0.3							
22L0246-02	5	0.8027	7.8152	5.4688			4.6661	66.54%								
22L0246-03	6	0.7963	6.0642	4.1315			3.3352	63.31%								
22L0246-04	7	0.8006	6.3136	3.9035			3.1029	56.28%								
22L0246-05	8	0.8328	6.7748	4.3315			3.4987	58.88%								
22L0246-06	9	0.8332	6.3730	4.2759			3.4427	62.14%								
22L0246-07	10	0.8040	7.8151	5.1798			4.3758	62.41%								
22L0246-08	11	0.8113	8.8017	5.8546			5.0433	63.12%								
22L0246-09	12	0.8375	7.3259	4.6493			3.8118	58.75%								
22L0246-10	13	0.7900	8.0101	5.4614			4.6714	64.70%								
22L0246-11	14	0.8013	7.0095	4.4332			3.6319	58.50%								
22L0246-12	15	0.8012	7.2607	4.2504			3.4492	53.40%								
22L0246-13	16	0.8262	7.4512	4.4919			3.6657	55.33%								
22L0246-14	17	0.8394	6.8749	4.7484			3.9090	64.77%								
22L0246-15	18	0.8370	7.6189	4.7256			3.8886	57.34%								
22L0246-16	19	0.8307	6.7639	4.2742			3.4435	58.04%								
22L0246-17	20	0.8089	9.2714	5.6018			4.7929	56.64%								
22L0246-18	21	0.8111	6.5666	4.0735			3.2624	56.68%								
22L0246-19	22	0.8150	7.7154	4.7869			3.9719	57.56%								
22L0246-20	23	0.8047	7.5805	4.9340			4.1293	60.94%								

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Batch: BKL0374 Batch Matrix: Solid Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC779F	22L0246-21		12/14/22 14:48	
LDW22-SC779G	22L0246-22		12/14/22 14:48	
LDW22-SC779H	22L0246-23		12/14/22 14:48	
LDW22-SC779I	22L0246-24		12/14/22 14:48	
LDW22-SC779J	22L0246-25		12/14/22 14:48	
LDW22-SC777A	22L0246-26		12/14/22 14:48	
LDW22-SC777B	22L0246-27		12/14/22 14:48	
LDW22-SC777C	22L0246-28		12/14/22 14:48	
LDW22-SC777D	22L0246-29		12/14/22 14:48	
LDW22-SC777E	22L0246-30		12/14/22 14:48	
LDW22-SC777F	22L0246-31		12/14/22 14:48	
LDW22-SC777G	22L0246-32		12/14/22 14:48	
LDW22-SC777H	22L0246-33		12/14/22 14:48	
LDW22-SC777I	22L0246-34		12/14/22 14:48	
LDW22-SC759C	22L0246-35		12/14/22 14:48	
LDW22-SC759D	22L0246-36		12/14/22 14:48	
LDW22-SC759E	22L0246-37		12/14/22 14:48	
LDW22-SC759F	22L0246-38		12/14/22 14:48	
LDW22-SC759G	22L0246-39		12/14/22 14:48	
LDW22-SC759H	22L0246-40		12/14/22 14:48	
Blank	BKL0374-BLK1		12/14/22 14:48	
LDW22-SC779F	BKL0374-DUP1		12/14/22 14:48	
LDW22-SC779F	BKL0374-DUP2		12/14/22 14:48	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0374
Date:	12/14/2022 14:58
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/14/2022 16:20	
date/time out:	12/15/2022 8:15	
elapsed hrs =	15.9	OK

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	105
Dry Cycle 1	102
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:		CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02	
Date & Time:		12/14/22 15:15	12/14/22 15:55	12/15/22 9:20							
Cal Wt (g):	10.0000	10.0000	10.0000	10.0000							
		Cal OK!	Cal OK!	Cal OK!							

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0374-BLK1	24	0.8432	0.0000	0.8431			-0.0001	0.01%								
22L0246-21	25	0.7710	6.7225	4.3927			3.6217	60.85%								
BKL0374-DUP1	26	0.7855	5.7680	3.8235			3.0380	60.97%	RPD=0.2							
BKL0374-DUP2	27	0.7970	6.1945	4.0686			3.2716	60.61%	RSD=0.3							
22L0246-22	28	0.8205	7.0085	4.6068			3.7863	61.19%								
22L0246-23	29	0.8125	7.8528	5.3736			4.5611	64.79%								
22L0246-24	30	0.7918	9.6616	6.5046			5.7128	64.41%								
22L0246-25	31	0.8264	7.8365	5.8459			5.0195	71.60%								
22L0246-26	32	0.8167	8.2919	5.9706			5.1539	68.95%								
22L0246-27	33	0.8053	8.5784	5.8056			5.0003	64.33%								
22L0246-28	34	0.8202	9.2194	6.8137			5.9935	71.36%								
22L0246-29	35	0.7995	8.3331	5.9406			5.1411	68.24%								
22L0246-30	36	0.8289	6.9583	5.0245			4.1956	68.45%								
22L0246-31	37	0.8215	6.5311	4.9407			4.1192	72.15%								
22L0246-32	38	0.8428	6.3442	4.0702			3.2274	58.67%								
22L0246-33	39	0.8202	7.0444	4.8672			4.0470	65.02%								
22L0246-34	40	0.8319	7.9229	5.3101			4.4782	63.15%								
22L0246-35	41	0.7823	8.2519	5.4973			4.7150	63.12%								
22L0246-36	42	0.7983	8.2327	5.6695			4.8712	65.52%								
22L0246-37	43	0.7790	9.5760	7.0307			6.2517	71.07%								
22L0246-38	44	0.8088	6.0456	4.4988			3.6900	70.46%								
22L0246-39	45	0.8035	7.8662	5.8086			5.0051	70.87%								
22L0246-40	46	0.7961	7.0218	4.8004			4.0043	64.32%								

PREPARATION BATCH SUMMARY

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0380 Batch Matrix: Solid
Preparation: No Prep Wet Chem

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-SC759B	22L0246-41		12/14/22 16:25	
LDW22-IT809A	22L0246-42		12/14/22 16:25	
LDW22-IT809B	22L0246-43		12/14/22 16:25	
LDW22-IT809C	22L0246-44		12/14/22 16:25	
LDW22-IT809D	22L0246-45		12/14/22 16:25	
LDW22-IT809E	22L0246-46		12/14/22 16:25	
LDW22-IT809F	22L0246-47		12/14/22 16:25	
LDW22-IT809G	22L0246-48		12/14/22 16:25	
Blank	BKL0380-BLK1		12/14/22 16:25	
LDW22-SC759B	BKL0380-DUP1		12/14/22 16:25	
LDW22-SC759B	BKL0380-DUP2		12/14/22 16:25	

TOTAL SOLIDS/VOLATILE SOLIDS (TS / TVS) BENCHSHEET for Solid samples

Method: PSEP 1986, SM2540, EPA 160.1

(dry at 104 (12-24 hr) then combust at 550 (30 min))

Batch:	BKL0380
Date:	12/14/2022 16:29
Analyst:	UW

Instrumentation

Drying Ovens:	1	**Analytical Balance:**	BAL2
Muffle Furnace:	2		

Batch drying time

record times as mm/dd/yy hh:mm

date/time in oven:	12/14/2022 17:25	
date/time out:	12/15/2022 9:30	
elapsed hrs =	16.1	OK

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt)/ (grams Sample-Tare)

Oven Temps, °C	
Start Temp	105
Dry Cycle 1	102
Dry Cycle 2	
Dry Cycle 3	

TVS (mg/kg dry wt) calculated as:
Final ash wt (g) = (min ash wt - tare wt)
TVS (mg/kg) = [(Dry wt-Ash wt)/ (dry weight)] *1,000,000
if ash wt > dry wt, "Chk for Err"
if dry wt-ash wt < 0.001 g, "< (1/dry wt)*1,000,000

Balance Calibration Check

Record weights to 4 places

Cal Weight ID:	CV-02	CV-02	CV-02	CV-02	CV-02		CV-02	CV-02	CV-02		
Date & Time:	12/14/22 16:30	12/14/22 16:45	12/15/22 10:10								
Cal Wt (g): 10.0000	10.0000	10.0000	10.0000								
	Cal OK!	Cal OK!	Cal OK!								

Sample ID	Dish #	Tare Wt. (g)	Dish & Sample (g)	Dry Wt 104C (grams) 1	2	3	dry Wt (g)	TS (%)	Notes	ASH WT 550C (grams) 1	2	3	Ash Wt (g)	TVS (mg/kg)	(%)	Notes
BKL0380-BLK1	47	0.7833	0.0000	.78.7833			-0.7833	100.00%								
22L0242-02	48	0.8414	7.2209	3.0213			2.1799	34.17%								
22L0242-03	49	0.8172	8.4831	3.9784			3.1612	41.24%								
22L0246-41	50	0.8203	7.7324	5.0275			4.2072	60.87%								
BKL0380-DUP1	51	0.7883	7.5072	4.8885			4.1002	61.02%	RPD=0.3							
BKL0380-DUP2	52	0.8383	7.8963	5.2092			4.3709	61.93%	RSD=0.9							
22L0246-42	53	0.8174	7.0070	4.2229			3.4055	55.02%								
22L0246-43	54	0.8151	7.4009	4.8718			4.0567	61.60%								
22L0246-44	55	0.8273	7.1997	3.9103			3.0830	48.38%								
22L0246-45	56	0.8222	6.8872	5.7226			4.9004	80.80%								
22L0246-46	57	0.8216	6.2525	5.2665			4.4449	81.84%								
22L0246-47	58	0.8358	7.3596	5.5795			4.7437	72.71%								
22L0246-48	59	0.8363	6.7204	6.2646			5.4283	92.25%								
22L0269-01	60	0.7853	8.5774	5.9738			5.1885	66.59%								
22L0270-01	61	0.8242	6.7187	6.0255			5.2013	88.24%								
22L0271-01	62	0.8378	8.9780	8.4448			7.6070	93.45%								
22L0272-01	63	0.8386	9.9764	9.3156			8.4770	92.77%								

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0373
Laboratory ID: BKL0373-BLK1
Prepared: 12/14/22 14:46
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/14/22 14:59
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0374
Laboratory ID: BKL0374-BLK1
Prepared: 12/14/22 14:48
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/14/22 14:58
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	ND	1	0.04	0.04	U

Form I

METHOD BLANK DATA SHEET

SM 2540 G-97

TotalAnalytes

Blank

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0380
Laboratory ID: BKL0380-BLK1
Prepared: 12/14/22 16:25
Matrix: Solid
Preparation: No Prep Wet Chem
Analyzed: 12/14/22 16:29
Sequence:
Calibration:
Instrument: BAL2

CAS NO.	Analyte	Concentration (%)	Dilution Factor	MDL	MRL	Q
	Total Solids	100.0	1	0.04	0.04	

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0373-DUP1
Batch: BKL0373
Lab Source ID: 22L0246-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC778B
% Solids: 64.31

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	64.31	64.70	0.599	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0373-DUP2
Batch: BKL0373
Lab Source ID: 22L0246-01
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC778B
% Solids: 64.31

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	64.31	64.57	0.408	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0374-DUP1
Batch: BKL0374
Lab Source ID: 22L0246-21
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC779F
% Solids: 60.85

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	60.85	60.97	0.197	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0374-DUP2
Batch: BKL0374
Lab Source ID: 22L0246-21
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC779F
% Solids: 60.85

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	60.85	60.61	0.396	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0380-DUP1
Batch: BKL0380
Lab Source ID: 22L0246-41
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC759B
% Solids: 60.87

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	60.87	61.02	0.259	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

DUPLICATES

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Laboratory ID: BKL0380-DUP2
Batch: BKL0380
Lab Source ID: 22L0246-41
Preparation: No Prep Wet Chem
Initial/Final: 5 g / 5 g
Source Sample Name: LDW22-SC759B
% Solids: 60.87

ANALYTE	CONTROL LIMIT	SAMPLE CONCENTRATION	DUPLICATE CONCENTRATION	RPD %	Q
Total Solids	20	60.87	61.93	1.73	

*: Values outside of QC limits
L: Analyte concentration is <=5 times the reporting limit and the replicate control limit defaults to Dup = +/- RL instead of 20% RPD

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC778B 22L0246-01	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC778C 22L0246-02	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC778C-FD 22L0246-03	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC778D 22L0246-04	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC778E 22L0246-05	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC778F 22L0246-06	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810A 22L0246-07	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779A 22L0246-15	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779B 22L0246-16	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779C 22L0246-17	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779D 22L0246-18	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779D-FD 22L0246-19	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779E 22L0246-20	12/09/22 08:09	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
LDW22-SC779F 22L0246-21	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC779G 22L0246-22	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-SC779H 22L0246-23	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC779I 22L0246-24	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC779J 22L0246-25	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777A 22L0246-26	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777B 22L0246-27	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777C 22L0246-28	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777D 22L0246-29	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777E 22L0246-30	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777F 22L0246-31	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777G 22L0246-32	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777H 22L0246-33	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC777I 22L0246-34	12/09/22 08:52	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759C 22L0246-35	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759D 22L0246-36	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759E 22L0246-37	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759F 22L0246-38	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759G 22L0246-39	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759H 22L0246-40	12/09/22 09:58	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
LDW22-SC759B 22L0246-41	12/09/22 09:58	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809A 22L0246-42	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	

HOLDING TIME SUMMARY

Analysis: SM 2540 G-97

Laboratory: Analytical Resources, LLC SDG: 22L0246

Client: Anchor QEA, LLC Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
Duplicate BKL0373-DUP1	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
Duplicate BKL0373-DUP2	12/09/22 07:56	12/09/22 16:40	12/14/22 14:46	5	28	12/14/22 14:59	5	28	
Duplicate BKL0374-DUP1	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
Duplicate BKL0374-DUP2	12/09/22 08:09	12/09/22 16:40	12/14/22 14:48	5	28	12/14/22 14:58	5	28	
Duplicate BKL0380-DUP1	12/09/22 09:58	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	
Duplicate BKL0380-DUP2	12/09/22 09:58	12/09/22 16:40	12/14/22 16:25	5	28	12/14/22 16:29	5	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

SM 2540 G-97

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids	0.04	0.04	%

PREPARATION BATCH SUMMARY

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Batch: BKL0297 Batch Matrix: Solid
Preparation: No Prep-Organics

SAMPLE NAME	LAB SAMPLE ID	LAB FILE ID	DATE PREPARED	OBSERVATIONS
LDW22-IT810A	22L0246-07		12/15/22 12:25	
LDW22-IT810B	22L0246-08		12/15/22 12:25	
LDW22-IT810C	22L0246-09		12/15/22 12:25	
LDW22-IT810B-FD	22L0246-10		12/15/22 12:25	
LDW22-IT810D	22L0246-11		12/15/22 12:25	
LDW22-IT810E	22L0246-12		12/15/22 12:25	
LDW22-IT810F	22L0246-13		12/15/22 12:25	
LDW22-IT810G	22L0246-14		12/15/22 12:25	
LDW22-IT809A	22L0246-42		12/15/22 12:25	
LDW22-IT809B	22L0246-43		12/15/22 12:25	
LDW22-IT809C	22L0246-44		12/15/22 12:25	
LDW22-IT809D	22L0246-45		12/15/22 12:25	
LDW22-IT809E	22L0246-46		12/15/22 12:25	
LDW22-IT809F	22L0246-47		12/15/22 12:25	
LDW22-IT809G	22L0246-48		12/15/22 12:25	

HOLDING TIME SUMMARY

Analysis: ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3

Sample Name	Date Collected	Date Received	Date Prepared	Days to Prep	Max Days to Prep	Date Analyzed	Days to Analysis	Max Days to Analysis	Q
LDW22-IT810A 22L0246-07	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810B 22L0246-08	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810C 22L0246-09	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810B-FD 22L0246-10	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810D 22L0246-11	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810E 22L0246-12	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810F 22L0246-13	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT810G 22L0246-14	12/09/22 08:40	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809A 22L0246-42	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809B 22L0246-43	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809C 22L0246-44	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809D 22L0246-45	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809E 22L0246-46	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809F 22L0246-47	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	
LDW22-IT809G 22L0246-48	12/09/22 11:44	12/09/22 16:40	12/15/22 12:25	6	28	12/16/22 05:30	7	28	

* Indicates hold time exceedance.

METHOD DETECTION AND REPORTING LIMITS

ASTM D2216

Laboratory: Analytical Resources, LLC
SDG: 22L0246
Client: Anchor QEA, LLC
Project: AOC4 UR Phase 3
Matrix: Solid
Instrument:

Analyte	MDL	RL	Units
Total Solids		0.01	%

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0405
Date:	12/15/2022 13:10
Analyst:	SH
Drying Oven:	15
Analytical Balance:	b334705934

Batch drying time		
Record times as mm/dd/yy hh:mm		Oven Temp, C
Date/time in oven:	12/16/2022 20:20	110
Date/time out:	12/17/2022 12:05	108
Elapsed hrs:	15.8	

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	110
End Temp:	108

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-01	0.8100	10.9400	7.3400	6.53	**64.46%**	No
22L0246-02	0.7900	10.8900	7.3700	6.58	**65.15%**	No
22L0246-03	0.8200	10.9200	7.3400	6.52	**64.55%**	No
22L0246-04	0.7900	10.9500	6.6800	5.89	**57.97%**	No
22L0246-05	0.8100	10.8800	6.6700	5.86	**58.19%**	No
22L0246-06	0.8100	10.9300	7.2200	6.41	**63.34%**	No
22L0246-07	0.8000	10.9500	7.1400	6.34	**62.46%**	No
22L0246-08	0.8000	11.0000	7.2800	6.48	**63.53%**	No
22L0246-09	0.8100	10.8900	6.7800	5.97	**59.23%**	No
22L0246-10	0.8100	10.8500	7.3600	6.55	**65.24%**	No
22L0246-11	0.8200	10.8800	6.8500	6.03	**59.94%**	No
22L0246-12	0.8300	10.9500	6.3500	5.52	**54.55%**	No
22L0246-13	0.8000	10.9200	6.2200	5.42	**53.56%**	No
22L0246-14	0.7900	10.9200	7.2800	6.49	**64.07%**	No
22L0246-15	0.7900	10.9400	6.6000	5.81	**57.24%**	No
22L0246-16	0.7800	10.9600	6.7300	5.95	**58.45%**	No
22L0246-17	0.8100	10.8700	6.4700	5.66	**56.26%**	No
22L0246-18	0.8300	10.9800	6.6400	5.81	**57.24%**	No
22L0246-19	0.8000	10.9900	6.6300	5.83	**57.21%**	No
22L0246-20	0.8300	10.9900	6.8900	6.06	**59.65%**	No

HT: 12/28

TOTAL SOLIDS BENCHSHEET
Method: PSEP 1986
(dry at 103-105 C)
Instrumentation

Batch:	BKL0405
Date:	12/15/2022 13:10
Analyst:	SH
Drying Oven:	Φ15
Analytical Balance:	B334705934

Batch drying time
Record times as mm/dd/yy hh:mm

Date/time in oven:	12/16/22	24:24	110
Date/time out:	12/17/22	12:05	100
Elapsed hrs:	0.0		

Oven Temp, C

TS (%) calculated as:
Final dry wt (g) = (Dry Wt - Tare Wt)
TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	110
End Temp:	100

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-01 B	Φ.81	1Φ.94	7.34			No
22L0246-02 B	Φ.79	1Φ.89	7.37			No
22L0246-03 B	Φ.82	1Φ.92	7.34			No
22L0246-04 B	Φ.79	1Φ.95	6.68			No
22L0246-05 B	Φ.81	1Φ.88	6.67			No
22L0246-06 B	Φ.81	1Φ.93	7.22			No
22L0246-07 C	Φ.8Φ	1Φ.95	7.14			No
22L0246-08 C	Φ.8Φ	11.ΦΦ	7.28			No
22L0246-09 C	Φ.81	1Φ.89	6.78			No
22L0246-10 C	Φ.81	1Φ.85	7.36			No
22L0246-11 C	Φ.82	1Φ.88	6.85			No
22L0246-12 C	Φ.83	1Φ.95	6.35			No
22L0246-13 C	Φ.8Φ	1Φ.92	6.22			No
22L0246-14 C	Φ.79	1Φ.92	7.28			No
22L0246-15 B	Φ.79	1Φ.94	6.6Φ			No
22L0246-16 B	Φ.78	1Φ.96	6.73			No
22L0246-17 B	Φ.81	1Φ.87	6.47			No
22L0246-18 B	Φ.83	1Φ.98	6.64			No
22L0246-19 B	Φ.8Φ	1Φ.99	6.63			No
22L0246-20 B	Φ.83	1Φ.99	6.89			No

T/S + Screens
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TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0406
Date:	12/15/2022 13:17
Analyst:	YL
Drying Oven:	15
Analytical Balance:	B146462614

Batch drying time					
Record times as mm/dd/yy hh:mm			**Oven Temp, C**	**TS (%) calculated as:**	**Oven Temps, °C**
Date/time in oven:	12/17/2022 14:31		105	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp: 105
Date/time out:	12/19/2022 8:43		100	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp: 100
Elapsed hrs:	42.2	> 24 hr			

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-21	0.8000	11.9700	7.5500	6.75	**60.43%**	Yes
22L0246-22	0.8000	12.2600	7.3300	6.53	**56.98%**	Yes
22L0246-23	0.8000	11.1400	7.4300	6.63	**64.12%**	No
22L0246-24	0.8100	11.6100	7.4500	6.64	**61.48%**	Yes
22L0246-25	0.8000	11.4900	8.3300	7.53	**70.44%**	No
22L0246-26	0.8000	11.0000	7.9300	7.13	**69.90%**	Yes
22L0246-27	0.8100	12.6100	8.0800	7.27	**61.61%**	Yes
22L0246-28	0.8200	11.7000	8.7700	7.95	**73.07%**	Yes
22L0246-29	0.8100	11.1900	8.4100	7.60	**73.22%**	No
22L0246-30	0.8000	11.5200	8.0900	7.29	**68.00%**	No
22L0246-31	0.8000	11.1600	8.1400	7.34	**70.85%**	No
22L0246-32	0.8000	11.2400	6.9200	6.12	**58.62%**	No
22L0246-33	0.7900	11.9400	7.9600	7.17	**64.30%**	No
22L0246-34	0.8000	11.4400	7.5000	6.70	**62.97%**	No
22L0246-35	0.7900	11.7100	7.6800	6.89	**63.10%**	Yes
22L0246-36	0.8300	11.2400	7.5400	6.71	**64.46%**	No
22L0246-37	0.7900	11.3000	8.6200	7.83	**74.50%**	Yes
22L0246-38	0.8000	11.5800	8.7200	7.92	**73.47%**	No
22L0246-39	0.8100	12.2000	8.7600	7.95	**69.80%**	Yes
22L0246-40	0.8000	12.0600	7.9600	7.16	**63.59%**	No

HT 12/28

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0406
Date:	12/15/2022 13:17
Analyst:	NL
Drying Oven:	Φ15
Analytical Balance:	B146462614

Batch drying time

Record times as mm/dd/yy hh:mm

Date/time in oven:	12/17/22	14:31
Date/time out:	12/19/22	08:43
Elapsed hrs:	0.0	

Oven Temp, C: 105 / 100

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	105
End Temp:	100

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-21	Φ.2Φ	11.97	7.55			~~No~~ Yes
22L0246-22	Φ.8Φ	12.26	7.33			~~No~~ Yes
22L0246-23	Φ.8Φ	11.14	7.43			No
22L0246-24	Φ.81	11.61	7.45			~~No~~ Yes
22L0246-25	Φ.8Φ	11.49	8.33			No
22L0246-26	Φ.3Φ	11.ΦΦ	7.93			~~No~~ Yes
22L0246-27	Φ.81	12.61	8.Φ8			~~No~~ Yes
22L0246-28	Φ.82	11.7Φ	8.77			~~No~~ Yes
22L0246-29	Φ.81	11.19	8.41			No
22L0246-30	Φ.8Φ	11.52	8.Φ9			No
22L0246-31	Φ.8Φ	11.16	8.14			No
22L0246-32	Φ.8Φ	11.24	1.92			No
22L0246-33	Φ.79	11.94	7.96			No
22L0246-34	Φ.8Φ	11.44	7.54			No
22L0246-35	Φ.79	11.71	7.68			~~No~~ Yes
22L0246-36	Φ.83	11.24	7.54			No
22L0246-37	Φ.79	11.34	8.62			~~No~~ Yes
22L0246-38	Φ.8Φ	11.58	8.72			No
22L0246-39	Φ.81	12.Φ2	8.76			~~No~~ Yes
22L0246-40	Φ.8Φ	12.Φ6	7.96			No

T/S + Screens
NO copies

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0407
Date:	12/15/2022 13:20
Analyst:	CR
Drying Oven:	15
Analytical Balance:	B139298002

Batch drying time					
Record times as mm/dd/yy hh:mm		**Oven Temp, C**	**TS (%) calculated as:**	**Oven Temps, °C**	
Date/time in oven:	12/19/2022 15:00	107	Final dry wt (g) = (Dry Wt - Tare Wt)	Start Temp:	107
Date/time out:	12/20/2022 8:04	105	TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)	End Temp:	105
Elapsed hrs:	17.1				

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-41	0.8000	12.3000	7.8200	7.02	**61.04%**	Yes
22L0246-42	0.7900	12.0600	6.9100	6.12	**54.30%**	Yes
22L0246-43	0.8100	11.6200	7.4400	6.63	**61.33%**	No
22L0246-44	0.8100	11.5800	6.0100	5.20	**48.28%**	No
22L0246-45	0.8000	11.7700	9.5400	8.74	**79.67%**	No
22L0246-46	0.8100	12.1300	10.0900	9.28	**81.98%**	No
22L0246-47	0.8000	12.5800	9.1800	8.38	**71.14%**	No
22L0246-48	0.7900	11.6900	10.7800	9.99	**91.65%**	No

HT: 12/28

TOTAL SOLIDS BENCHSHEET

Method: PSEP 1986

(dry at 103-105 C)

Instrumentation

Batch:	BKL0407
Date:	12/15/2022 13:20
Analyst:	CA
Drying Oven:	015
Analytical Balance:	B13929802

Batch drying time

Record times as mm/dd/yy hh:mm

		Oven Temp, C
Date/time in oven:	12/19/22 15:00	107
Date/time out:	12/20/22 8:04	105
Elapsed hrs:	0.0	

TS (%) calculated as:

Final dry wt (g) = (Dry Wt - Tare Wt)

TS = (Final Dry Wt X 100)/ (sample & dish -dish tare)

Oven Temps, °C	
Start Temp:	107
End Temp:	105

SAMPLE ID	Dish Tare Wt (g)	Dish with Sample (g)	Dry Wt (g)	Solids Wt (g)	TS (%)	Sample Decanted
22L0246-41 C	0.80	12.30	7.82			No yes
22L0246-42	0.79	12.06	6.91			No yes
22L0246-43	0.81	11.62	7.49			No
22L0246-44	0.81	11.58	6.01			No
22L0246-45	0.80	11.77	9.54			No
22L0246-46	0.81	12.13	10.09			No
22L0246-47	0.80	12.58	9.18			No
22L0246-48 C	0.79	11.69	10.78			No

T/S + Screens
1 copy